

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN070721\  
 Data File : VN067643.D  
 Acq On : 7 Jul 2021 19:10  
 Operator : JC/MD  
 Sample : M2940-07 2.5PPB LOD  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT3-2021

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2021 6:03:16 PM

Quant Time: Jul 08 07:16:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 08 07:13:53 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 329764              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 626989              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.746         | 117  | 582487              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.677         | 152  | 225727              | 50.000 | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.440          | 65   | 269022              | 53.980 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = 107.960% |        |        |          |
| 35) Dibromofluoromethane     | 8.024          | 113  | 186304              | 49.181 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = 98.360%  |        |        |          |
| 50) Toluene-d8               | 10.443         | 98   | 790343              | 49.845 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = 99.680%  |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.733         | 95   | 251852              | 44.963 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = 89.920%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.070          | 85   | 7571                | 2.701  | ug/l   | 91       |
| 3) Chloromethane             | 2.301          | 50   | 12284               | 2.767  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.443          | 62   | 19336               | 2.886  | ug/l   | 99       |
| 5) Bromomethane              | 2.848          | 94   | 18093               | 3.273  | ug/l   | 94       |
| 6) Chloroethane              | 3.017          | 64   | 13442               | 2.708  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.365          | 101  | 33783               | 2.717  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.821          | 74   | 9042                | 3.390  | ug/l # | 39       |
| 9) 1,1,2-Trichlorotrifluo... | 4.210          | 101  | 8265m               | 2.704  | ug/l   |          |
| 10) Methyl Iodide            | 4.409          | 142  | 7341                | 2.016  | ug/l # | 61       |
| 11) Tert butyl alcohol       | 5.387          | 59   | 8961m               | 12.513 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 4.170          | 96   | 7997                | 2.727  | ug/l   | 82       |
| 13) Acrolein                 | 4.044          | 56   | 6368                | 16.557 | ug/l   | 93       |
| 14) Allyl chloride           | 4.840          | 41   | 13957               | 2.589  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.564          | 53   | 23378               | 13.161 | ug/l   | 99       |
| 16) Acetone                  | 4.293          | 43   | 22314               | 14.229 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.521          | 76   | 20307               | 2.500  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.859          | 43   | 12768m              | 2.899  | ug/l   |          |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 30997               | 2.551  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.090          | 84   | 11385               | 2.745  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.586          | 96   | 8949                | 2.581  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.503          | 45   | 30477               | 2.492  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.439          | 43   | 122965              | 11.759 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.388          | 63   | 17760               | 2.605  | ug/l   | 97       |
| 25) 2-Butanone               | 7.348          | 43   | 33582               | 12.896 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.324          | 77   | 14469               | 2.428  | ug/l   | 79       |
| 27) cis-1,2-Dichloroethene   | 7.329          | 96   | 10943               | 2.522  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.659          | 49   | 8384                | 2.520  | ug/l # | 66       |
| 29) Tetrahydrofuran          | 7.699          | 42   | 20986               | 12.255 | ug/l   | 93       |
| 30) Chloroform               | 7.820          | 83   | 19216               | 2.509  | ug/l   | 93       |
| 31) Cyclohexane              | 8.091          | 56   | 24568               | 3.516  | ug/l # | 62       |
| 32) 1,1,1-Trichloroethane    | 8.018          | 97   | 16364               | 2.464  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 13059               | 2.242  | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.418          | 43   | 13833               | 2.451  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 8.204          | 117  | 13474               | 2.345  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.459          | 83   | 15079               | 2.365  | ug/l   | 93       |
| 40) Benzene                  | 8.464          | 78   | 41199               | 2.363  | ug/l   | 97       |

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 Sample : M2940-07 2.5PPB LOD  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT3-2021

Manual Integrations  
 APPROVED

MMDadoda  
 7/8/2021 6:03:16 PM

Quant Time: Jul 08 07:16:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 08 07:13:53 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.632  | 41   | 7708m    | 2.658  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.531  | 62   | 16752    | 2.588  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.566  | 43   | 23628    | 2.380  | ug/l # | 74       |
| 44) Trichloroethene           | 9.217  | 130  | 10143    | 2.293  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.494  | 63   | 10980    | 2.488  | ug/l   | 95       |
| 46) Dibromomethane            | 9.579  | 93   | 7708     | 2.461  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.764  | 83   | 13302    | 2.173  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.561  | 41   | 11455    | 2.609  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.579  | 88   | 3755     | 49.347 | ug/l # | 56       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 72239    | 11.846 | ug/l   | 98       |
| 52) Toluene                   | 10.510 | 92   | 27583    | 2.415  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 13628    | 2.169  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.194 | 75   | 14707    | 2.160  | ug/l   | 92       |
| 55) 1,1,2-Trichloroethane     | 10.902 | 97   | 10359    | 2.367  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 15075    | 2.236  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 11.049 | 76   | 17444    | 2.324  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 13888    | 9.934  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.089 | 43   | 50716    | 11.914 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.240 | 129  | 8731     | 1.965  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.350 | 107  | 10140    | 2.269  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.977 | 164  | 10384    | 2.525  | ug/l   | 89       |
| 65) Chlorobenzene             | 11.773 | 112  | 28259    | 2.362  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 9118     | 2.167  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.848 | 91   | 51045    | 2.344  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.956 | 106  | 37304    | 4.529  | ug/l   | 88       |
| 69) o-Xylene                  | 12.283 | 106  | 18744    | 2.314  | ug/l   | 85       |
| 70) Styrene                   | 12.296 | 104  | 27027    | 2.086  | ug/l   | 93       |
| 71) Bromoform                 | 12.457 | 173  | 5315     | 1.870  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.581 | 105  | 45545    | 2.501  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.390 | 43   | 16308    | 2.468  | ug/l # | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 14527    | 2.748  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.884 | 75   | 12770m   | 2.770  | ug/l   |          |
| 77) Bromobenzene              | 12.868 | 156  | 10699    | 2.654  | ug/l   | 78       |
| 78) n-propylbenzene           | 12.924 | 91   | 53550    | 2.600  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 32645    | 2.623  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.063 | 105  | 35926    | 2.434  | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 2600m    | 1.818  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.106 | 91   | 30395    | 2.468  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 29773    | 2.366  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 34215    | 2.366  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.506 | 105  | 42036    | 2.413  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.621 | 119  | 32523    | 2.314  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.618 | 146  | 18802    | 2.514  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.699 | 146  | 18935    | 2.473  | ug/l   | 89       |
| 89) n-Butylbenzene            | 13.943 | 91   | 28342    | 2.351  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.214 | 117  | 5204     | 2.229  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 17520    | 2.427  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.600 | 75   | 2425     | 2.642  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 6792     | 2.185  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.370 | 225  | 3938     | 2.596  | ug/l   | 96       |
| 95) Naphthalene               | 15.509 | 128  | 18736    | 2.139  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 6718     | 2.238  | ug/l   | 94       |

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 ALS Vial : 16 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_N  
**ClientSampleId :**  
 LOD-MDL-WATER-01-QT3-2021

**Manual Integrations**  
**APPROVED**

MMDadoda  
 7/8/2021 6:03:16 PM

Quant Time: Jul 08 07:16:27 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N070721W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 08 07:13:53 2021  
 Response via : Initial Calibration

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

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

