

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102220\  
 Data File : VN064263.D  
 Acq On : 22 Oct 2020 20:28  
 Operator : JC/MD  
 Sample : L4214-07 .5PPB LOD  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations  
 APPROVED

MMDadoda  
 10/23/2020 3:37:35 PM

Quant Time: Oct 23 15:29:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N102120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 23 02:22:49 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene         | 7.63   | 168  | 253990   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.55   | 114  | 425521   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.38  | 117  | 376707   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.32  | 152  | 164004   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4     | 7.99   | 65   | 194946   | 51.68 | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =     | 103.36% |          |
| 35) Dibromofluoromethane      | 7.55   | 113  | 135206   | 47.79 | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =     | 95.58%  |          |
| 50) Toluene-d8                | 10.06  | 98   | 487121   | 47.47 | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =     | 94.94%  |          |
| 62) 4-Bromofluorobenzene      | 12.38  | 95   | 185302   | 44.54 | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =     | 89.08%  |          |
| Target Compounds              |        |      |          |       |         |          |
|                               |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.83   | 85   | 1004     | 0.362 | ug/l    | 95       |
| 3) Chloromethane              | 2.04   | 50   | 1482     | 0.505 | ug/l    | 99       |
| 4) Vinyl Chloride             | 2.16   | 62   | 1314     | 0.451 | ug/l    | 98       |
| 6) Chloroethane               | 2.67   | 64   | 1060     | 0.598 | ug/l #  | 34       |
| 7) Trichlorofluoromethane     | 2.99   | 101  | 2574m    | 0.538 | ug/l    |          |
| 8) Diethyl Ether              | 3.37   | 74   | 421      | 0.266 | ug/l    | 84       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73   | 101  | 900      | 0.364 | ug/l #  | 76       |
| 12) 1,1-Dichloroethene        | 3.71   | 96   | 1127m    | 0.473 | ug/l    |          |
| 14) Allyl chloride            | 4.29   | 41   | 2578m    | 0.541 | ug/l    |          |
| 15) Acrylonitrile             | 4.95   | 53   | 2380m    | 2.280 | ug/l    |          |
| 16) Acetone                   | 3.79   | 43   | 4099m    | 3.798 | ug/l    |          |
| 17) Carbon Disulfide          | 4.01   | 76   | 2774     | 0.409 | ug/l #  | 82       |
| 18) Methyl Acetate            | 4.29   | 43   | 1440m    | 0.524 | ug/l    |          |
| 19) Methyl tert-butyl Ether   | 5.00   | 73   | 3945m    | 0.482 | ug/l    |          |
| 20) Methylene Chloride        | 4.50   | 84   | 1820     | 0.632 | ug/l #  | 68       |
| 21) trans-1,2-Dichloroethene  | 5.00   | 96   | 1290m    | 0.491 | ug/l    |          |
| 22) Diisopropyl ether         | 5.90   | 45   | 4550m    | 0.514 | ug/l    |          |
| 23) Vinyl Acetate             | 5.86   | 43   | 12208    | 1.546 | ug/l #  | 94       |
| 24) 1,1-Dichloroethane        | 5.79   | 63   | 2200m    | 0.429 | ug/l    |          |
| 25) 2-Butanone                | 6.79   | 43   | 4126     | 2.406 | ug/l #  | 88       |
| 26) 2,2-Dichloropropane       | 6.77   | 77   | 2363m    | 0.463 | ug/l    |          |
| 27) cis-1,2-Dichloroethene    | 6.78   | 96   | 1727m    | 0.565 | ug/l    |          |
| 28) Bromochloromethane        | 7.15   | 49   | 1088     | 0.446 | ug/l #  | 89       |
| 29) Tetrahydrofuran           | 7.18   | 42   | 2970m    | 2.896 | ug/l    |          |
| 30) Chloroform                | 7.33   | 83   | 3125     | 0.571 | ug/l #  | 62       |
| 32) 1,1,1-Trichloroethane     | 7.53   | 97   | 2303m    | 0.449 | ug/l    |          |
| 36) 1,1-Dichloropropene       | 7.75   | 75   | 1992m    | 0.470 | ug/l    |          |
| 37) Ethyl Acetate             | 6.88   | 43   | 2657m    | 0.690 | ug/l    |          |
| 38) Carbon Tetrachloride      | 7.73   | 117  | 2347m    | 0.486 | ug/l    |          |
| 39) Methylcyclohexane         | 9.05   | 83   | 1862m    | 0.483 | ug/l    |          |
| 40) Benzene                   | 8.01   | 78   | 5075     | 0.433 | ug/l    | 97       |
| 41) Methacrylonitrile         | 7.12   | 41   | 1065     | 0.527 | ug/l #  | 52       |
| 42) 1,2-Dichloroethane        | 8.09   | 62   | 2611     | 0.520 | ug/l #  | 78       |
| 43) Isopropyl Acetate         | 8.13   | 43   | 3129     | 0.436 | ug/l #  | 91       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Oct 23 02:22:49 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) Trichloroethene            | 8.80  | 130  | 1171     | 0.367 | ug/l   | 88       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 1228     | 0.393 | ug/l   | 89       |
| 46) Dibromomethane             | 9.18  | 93   | 966m     | 0.460 | ug/l   |          |
| 47) Bromodichloromethane       | 9.37  | 83   | 2102     | 0.453 | ug/l # | 63       |
| 48) Methyl methacrylate        | 9.17  | 41   | 2060     | 0.549 | ug/l # | 72       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 294m     | 6.701 | ug/l   |          |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 8655     | 2.256 | ug/l   | 98       |
| 52) Toluene                    | 10.13 | 92   | 2903     | 0.387 | ug/l   | 76       |
| 53) t-1,3-Dichloropropene      | 10.36 | 75   | 1970     | 0.382 | ug/l # | 55       |
| 54) cis-1,3-Dichloropropene    | 9.80  | 75   | 2135     | 0.394 | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 1317     | 0.465 | ug/l # | 83       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 2072     | 0.474 | ug/l # | 75       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 2166     | 0.441 | ug/l # | 87       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 4741     | 2.104 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.73 | 43   | 6312     | 2.253 | ug/l   | 96       |
| 60) Dibromochloromethane       | 10.87 | 129  | 1413     | 0.386 | ug/l   | 93       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 1267     | 0.424 | ug/l   | 93       |
| 64) Tetrachloroethene          | 10.60 | 164  | 1389     | 0.458 | ug/l # | 85       |
| 65) Chlorobenzene              | 11.40 | 112  | 3695     | 0.474 | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.49 | 131  | 1438m    | 0.465 | ug/l   |          |
| 67) Ethyl Benzene              | 11.49 | 91   | 6600     | 0.461 | ug/l # | 86       |
| 68) m/p-Xylenes                | 11.59 | 106  | 4283     | 0.807 | ug/l   | 80       |
| 69) o-Xylene                   | 11.92 | 106  | 2155     | 0.420 | ug/l   | 85       |
| 70) Styrene                    | 11.94 | 104  | 3727     | 0.433 | ug/l   | 92       |
| 71) Bromoform                  | 12.10 | 173  | 995      | 0.416 | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.23 | 105  | 5812     | 0.465 | ug/l   | 100      |
| 74) N-amyl acetate             | 12.05 | 43   | 2048     | 0.379 | ug/l # | 82       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.47 | 83   | 1702     | 0.513 | ug/l # | 93       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 1405m    | 0.406 | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 1549     | 0.525 | ug/l   | 86       |
| 78) n-propylbenzene            | 12.56 | 91   | 6802     | 0.482 | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 3582     | 0.414 | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 5108     | 0.483 | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 479m     | 0.350 | ug/l   |          |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 5073     | 0.561 | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.97 | 119  | 4071     | 0.470 | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 5022     | 0.477 | ug/l   | 94       |
| 85) sec-Butylbenzene           | 13.14 | 105  | 4754     | 0.435 | ug/l   | 94       |
| 86) p-Isopropyltoluene         | 13.27 | 119  | 4550     | 0.457 | ug/l # | 85       |
| 87) 1,3-Dichlorobenzene        | 13.25 | 146  | 2710     | 0.516 | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.33 | 146  | 2730m    | 0.508 | ug/l   |          |
| 89) n-Butylbenzene             | 13.59 | 91   | 4140     | 0.464 | ug/l   | 94       |
| 90) Hexachloroethane           | 13.85 | 117  | 989      | 0.549 | ug/l   | 65       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 2480     | 0.481 | ug/l   | 86       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 210      | 0.254 | ug/l # | 36       |
| 93) 1,2,4-Trichlorobenzene     | 14.89 | 180  | 1346     | 0.466 | ug/l # | 80       |
| 94) Hexachlorobutadiene        | 14.98 | 225  | 841      | 0.539 | ug/l   | 94       |
| 95) Naphthalene                | 15.11 | 128  | 4348     | 0.502 | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 1259m    | 0.440 | ug/l   |          |

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Response via : Initial Calibration

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

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

