

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\  
 Data File : VN061563.D  
 Acq On : 29 May 2020 13:38  
 Operator : JC/MD  
 Sample : L2182-09 2.5PPB MDL  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT2-2020DL

Manual Integrations  
 APPROVED

MMDadoda  
 6/1/2020 12:30:10 PM

Quant Time: May 30 07:33:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 30 07:13:34 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 276931   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 492990   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 450863   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 192357   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 184712   | 55.98 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 111.96% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 141815   | 56.71 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.42% |      |
| 50) Toluene-d8            | 10.06  | 98  | 587169   | 50.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.32% |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 195717   | 46.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.58%  |      |

## Target Compounds

|                               |      |     |       |        | Qvalue |    |
|-------------------------------|------|-----|-------|--------|--------|----|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 5194  | 1.795  | ug/l   | 95 |
| 3) Chloromethane              | 2.03 | 50  | 9055  | 2.681  | ug/l   | 93 |
| 4) Vinyl Chloride             | 2.16 | 62  | 11312 | 2.444  | ug/l   | 98 |
| 5) Bromomethane               | 2.54 | 94  | 7845  | 2.954  | ug/l   | 96 |
| 6) Chloroethane               | 2.67 | 64  | 7729  | 2.594  | ug/l   | 99 |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 14892 | 2.495  | ug/l   | 96 |
| 8) Diethyl Ether              | 3.37 | 74  | 4419  | 2.421  | ug/l   | 96 |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 6836m | 2.581  | ug/l   |    |
| 10) Methyl Iodide             | 3.91 | 142 | 9119  | 2.480  | ug/l # | 96 |
| 11) Tert butyl alcohol        | 4.74 | 59  | 6669  | 15.196 | ug/l # | 89 |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 7150  | 2.527  | ug/l   | 95 |
| 13) Acrolein                  | 3.57 | 56  | 3565  | 21.187 | ug/l   | 95 |
| 14) Allyl chloride            | 4.28 | 41  | 8780  | 2.373  | ug/l   | 95 |
| 15) Acrylonitrile             | 4.93 | 53  | 15091 | 12.320 | ug/l   | 98 |
| 16) Acetone                   | 3.78 | 43  | 15055 | 12.901 | ug/l   | 97 |
| 17) Carbon Disulfide          | 4.01 | 76  | 17187 | 2.761  | ug/l # | 91 |
| 18) Methyl Acetate            | 4.28 | 43  | 7437  | 2.490  | ug/l   | 92 |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 25168 | 2.610  | ug/l   | 97 |
| 20) Methylene Chloride        | 4.51 | 84  | 8633  | 2.134  | ug/l   | 95 |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 8519  | 2.670  | ug/l # | 85 |
| 22) Diisopropyl ether         | 5.90 | 45  | 21276 | 2.609  | ug/l   | 94 |
| 23) Vinyl Acetate             | 5.84 | 43  | 79007 | 12.157 | ug/l   | 99 |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 13408 | 2.593  | ug/l # | 88 |
| 25) 2-Butanone                | 6.79 | 43  | 18917 | 12.098 | ug/l   | 95 |
| 26) 2,2-Dichloropropane       | 6.78 | 77  | 12181 | 2.574  | ug/l   | 94 |
| 27) cis-1,2-Dichloroethene    | 6.79 | 96  | 9815  | 2.716  | ug/l   | 97 |
| 28) Bromochloromethane        | 7.15 | 49  | 6334  | 2.839  | ug/l # | 93 |
| 29) Tetrahydrofuran           | 7.17 | 42  | 12755 | 12.370 | ug/l   | 99 |
| 30) Chloroform                | 7.33 | 83  | 15525 | 2.714  | ug/l   | 94 |
| 31) Cyclohexane               | 7.62 | 56  | 16852 | 3.624  | ug/l # | 75 |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 12982 | 2.491  | ug/l # | 47 |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 10405 | 2.384  | ug/l   | 98 |
| 37) Ethyl Acetate             | 6.88 | 43  | 9418  | 2.679  | ug/l # | 83 |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 9390  | 2.231  | ug/l   | 98 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\  
 Data File : VN061563.D  
 Acq On : 29 May 2020 13:38  
 Operator : JC/MD  
 Sample : L2182-09 2.5PPB MDL  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MDL-WATER-03-QT2-2020DL

Manual Integrations  
 APPROVED

MMDadoda  
 6/1/2020 12:30:10 PM

Quant Time: May 30 07:33:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 30 07:13:34 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 12137    | 2.256  | ug/l   | 97       |
| 40) Benzene                    | 8.00  | 78   | 31755    | 2.358  | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.14  | 41   | 4181m    | 2.596  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 11566    | 2.566  | ug/l   | 94       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 14844    | 2.347  | ug/l # | 89       |
| 44) Trichloroethene            | 8.80  | 130  | 9604     | 2.321  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.09  | 63   | 7571     | 2.368  | ug/l   | 95       |
| 46) Dibromomethane             | 9.18  | 93   | 5712     | 2.329  | ug/l   | 91       |
| 47) Bromodichloromethane       | 9.37  | 83   | 11193    | 2.304  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 6268     | 2.203  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.17  | 88   | 2647     | 60.052 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 39733    | 11.149 | ug/l   | 100      |
| 52) Toluene                    | 10.13 | 92   | 21131    | 2.404  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.36 | 75   | 11872    | 2.268  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 12653    | 2.248  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 8012     | 2.288  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 10054    | 2.055  | ug/l # | 93       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 13251    | 2.366  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 22356    | 10.695 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 27887    | 10.896 | ug/l   | 90       |
| 60) Dibromochloromethane       | 10.88 | 129  | 8059     | 2.024  | ug/l   | 92       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 7839     | 2.147  | ug/l   | 95       |
| 64) Tetrachloroethene          | 10.61 | 164  | 9467     | 2.231  | ug/l   | 94       |
| 65) Chlorobenzene              | 11.41 | 112  | 22505    | 2.401  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 7364     | 2.110  | ug/l   | 93       |
| 67) Ethyl Benzene              | 11.48 | 91   | 37277    | 2.301  | ug/l   | 96       |
| 68) m/p-Xylenes                | 11.60 | 106  | 29495    | 4.592  | ug/l   | 98       |
| 69) o-Xylene                   | 11.92 | 106  | 13957    | 2.288  | ug/l   | 100      |
| 70) Styrene                    | 11.94 | 104  | 20248    | 2.004  | ug/l   | 96       |
| 71) Bromoform                  | 12.10 | 173  | 4777     | 1.777  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.22 | 105  | 36431    | 2.595  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.05 | 43   | 10618    | 2.402  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 9656     | 2.454  | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 9260m    | 2.647  | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 8745     | 2.440  | ug/l   | 89       |
| 78) n-propylbenzene            | 12.56 | 91   | 40213    | 2.566  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 24939    | 2.668  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 28716    | 2.447  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 2694m    | 1.970  | ug/l   |          |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 24612    | 2.503  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 25965    | 2.504  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 29196    | 2.504  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 32908    | 2.463  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 28788    | 2.340  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 15134    | 2.385  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 15570m   | 2.408  | ug/l   |          |
| 89) n-Butylbenzene             | 13.59 | 91   | 24721    | 2.399  | ug/l   | 97       |
| 90) Hexachloroethane           | 13.85 | 117  | 3102     | 2.280  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 15186    | 2.504  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 1679     | 2.093  | ug/l   | 95       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\  
Data File : VN061563.D  
Acq On : 29 May 2020 13:38  
Operator : JC/MD  
Sample : L2182-09 2.5PPB MDL  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MDL-WATER-03-QT2-2020DL

Manual Integrations  
APPROVED

MMDadoda  
6/1/2020 12:30:10 PM

Quant Time: May 30 07:33:13 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
Quant Title : SW846 8260  
QLast Update : Sat May 30 07:13:34 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.89 | 180  | 7078     | 1.996 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 14.99 | 225  | 3547     | 2.345 | ug/l  | 97       |
| 95) Naphthalene            | 15.10 | 128  | 21606    | 2.001 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.29 | 180  | 7738     | 2.219 | ug/l  | 95       |

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

