

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052820\  
 Data File : VN061549.D  
 Acq On : 28 May 2020 23:13  
 Operator : JC/MD  
 Sample : L2182-07 .5PPB LOD  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT2-2020

Manual Integrations  
 APPROVED

MMDadoda  
 5/29/2020 5:50:28 PM

Quant Time: May 29 07:35:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:45:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 303192   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 539107   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 488285   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 204587   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 202289   | 56.00 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.00% |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 154825   | 56.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 113.22% |      |
| 50) Toluene-d8            | 10.06  | 98  | 636044   | 50.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.38% |      |
| 62) 4-Bromofluorobenzene  | 12.38  | 95  | 211387   | 45.72 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.44%  |      |

## Target Compounds

|                               |      |     |       |       |        | Qvalue |
|-------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 1501  | 0.474 | ug/l   | 90     |
| 3) Chloromethane              | 2.03 | 50  | 2509  | 0.678 | ug/l   | 94     |
| 4) Vinyl Chloride             | 2.16 | 62  | 2725  | 0.538 | ug/l # | 79     |
| 5) Bromomethane               | 2.54 | 94  | 2940  | 1.011 | ug/l   | 95     |
| 6) Chloroethane               | 2.67 | 64  | 1881  | 0.577 | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 2.97 | 101 | 3743  | 0.573 | ug/l   | 93     |
| 8) Diethyl Ether              | 3.38 | 74  | 971   | 0.486 | ug/l   | 68     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 1599m | 0.551 | ug/l   |        |
| 10) Methyl Iodide             | 3.91 | 142 | 2960  | 0.735 | ug/l # | 68     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 1125m | 2.341 | ug/l   |        |
| 12) 1,1-Dichloroethene        | 3.71 | 96  | 1789m | 0.577 | ug/l   |        |
| 13) Acrolein                  | 3.56 | 56  | 631m  | 3.425 | ug/l   |        |
| 14) Allyl chloride            | 4.27 | 41  | 2539m | 0.627 | ug/l   |        |
| 15) Acrylonitrile             | 4.94 | 53  | 3592m | 2.678 | ug/l   |        |
| 16) Acetone                   | 3.78 | 43  | 5759  | 4.507 | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.00 | 76  | 5328  | 0.782 | ug/l   | 100    |
| 18) Methyl Acetate            | 4.27 | 43  | 2116  | 0.647 | ug/l # | 61     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 5508  | 0.522 | ug/l   | 98     |
| 20) Methylene Chloride        | 4.51 | 84  | 2430m | 0.549 | ug/l   |        |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 2193m | 0.628 | ug/l   |        |
| 22) Diisopropyl ether         | 5.90 | 45  | 4655  | 0.521 | ug/l # | 89     |
| 23) Vinyl Acetate             | 5.85 | 43  | 16347 | 2.298 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 5.80 | 63  | 2968m | 0.524 | ug/l   |        |
| 25) 2-Butanone                | 6.80 | 43  | 5047  | 2.948 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 2918  | 0.563 | ug/l # | 67     |
| 27) cis-1,2-Dichloroethene    | 6.79 | 96  | 2295m | 0.580 | ug/l   |        |
| 28) Bromochloromethane        | 7.16 | 49  | 564m  | 0.231 | ug/l   |        |
| 29) Tetrahydrofuran           | 7.17 | 42  | 2939  | 2.603 | ug/l   | 94     |
| 30) Chloroform                | 7.33 | 83  | 3496  | 0.558 | ug/l   | 98     |
| 31) Cyclohexane               | 7.62 | 56  | 8992  | 1.766 | ug/l # | 36     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 3080  | 0.540 | ug/l # | 49     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 2636  | 0.552 | ug/l   | 95     |
| 37) Ethyl Acetate             | 6.88 | 43  | 2306m | 0.600 | ug/l   |        |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 1857m | 0.403 | ug/l   |        |

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 Quant Title : SW846 8260  
 QLast Update : Fri May 29 02:45:50 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 2861     | 0.486 | ug/l   | 96       |
| 40) Benzene                    | 8.00  | 78   | 7536     | 0.512 | ug/l   | 96       |
| 41) Methacrylonitrile          | 7.13  | 41   | 766m     | 0.435 | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.09  | 62   | 2948     | 0.598 | ug/l   | 77       |
| 43) Isopropyl Acetate          | 8.13  | 43   | 3530     | 0.510 | ug/l # | 84       |
| 44) Trichloroethene            | 8.80  | 130  | 2494     | 0.551 | ug/l   | 90       |
| 45) 1,2-Dichloropropane        | 9.09  | 63   | 1856     | 0.531 | ug/l # | 81       |
| 46) Dibromomethane             | 9.17  | 93   | 1305     | 0.487 | ug/l   | 90       |
| 47) Bromodichloromethane       | 9.37  | 83   | 2445     | 0.460 | ug/l # | 97       |
| 48) Methyl methacrylate        | 9.17  | 41   | 1741     | 0.560 | ug/l # | 78       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 273      | 5.664 | ug/l # | 11       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 8820     | 2.263 | ug/l   | 98       |
| 52) Toluene                    | 10.12 | 92   | 4712     | 0.490 | ug/l   | 93       |
| 53) t-1,3-Dichloropropene      | 10.36 | 75   | 2511     | 0.439 | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 2714     | 0.441 | ug/l # | 90       |
| 55) 1,1,2-Trichloroethane      | 10.54 | 97   | 1711     | 0.447 | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 2075     | 0.388 | ug/l # | 79       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 2766     | 0.452 | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 9.67  | 63   | 4898     | 2.143 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.73 | 43   | 6570     | 2.347 | ug/l   | 84       |
| 60) Dibromochloromethane       | 10.88 | 129  | 1637     | 0.376 | ug/l   | 86       |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 1813     | 0.454 | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.61 | 164  | 2148     | 0.467 | ug/l   | 92       |
| 65) Chlorobenzene              | 11.41 | 112  | 5459     | 0.538 | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 1678     | 0.444 | ug/l # | 61       |
| 67) Ethyl Benzene              | 11.49 | 91   | 9629     | 0.549 | ug/l   | 95       |
| 68) m/p-Xylenes                | 11.59 | 106  | 6763     | 0.972 | ug/l   | 91       |
| 69) o-Xylene                   | 11.92 | 106  | 3306     | 0.500 | ug/l   | 91       |
| 70) Styrene                    | 11.94 | 104  | 5309     | 0.485 | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 960      | 0.330 | ug/l # | 89       |
| 73) Isopropylbenzene           | 12.22 | 105  | 8751     | 0.586 | ug/l   | 95       |
| 74) N-amyl acetate             | 12.05 | 43   | 2423     | 0.515 | ug/l # | 80       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 2273     | 0.543 | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 2248m    | 0.604 | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 2283     | 0.599 | ug/l   | 77       |
| 78) n-propylbenzene            | 12.57 | 91   | 9650     | 0.579 | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 5762     | 0.580 | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 6240     | 0.500 | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 546m     | 0.375 | ug/l   |          |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 6527     | 0.624 | ug/l   | 90       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 5611     | 0.509 | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 13.02 | 105  | 6781     | 0.547 | ug/l   | 95       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 7212     | 0.508 | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 6519     | 0.498 | ug/l   | 84       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 4239     | 0.628 | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 4588m    | 0.667 | ug/l   |          |
| 89) n-Butylbenzene             | 13.59 | 91   | 6721     | 0.613 | ug/l   | 89       |
| 90) Hexachloroethane           | 13.85 | 117  | 542      | 0.375 | ug/l   | 68       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 3780     | 0.586 | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 472      | 0.553 | ug/l   | 75       |

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Quant Title : SW846 8260  
QLast Update : Fri May 29 02:45:50 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.89 | 180  | 2722     | 0.722 | ug/l  | 92       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 1103     | 0.686 | ug/l  | 86       |
| 95) Naphthalene            | 15.11 | 128  | 8109     | 0.706 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 15.29 | 180  | 2497     | 0.673 | ug/l  | 95       |

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

