

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\  
 Data File : VN061890.D  
 Acq On : 18 Jun 2020 10:33  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/19/2020 1:03:47 PM

Quant Time: Jun 19 05:38:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 154669   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 251483   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 239093   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 121468   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.99   | 65  | 94604    | 45.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.22%  |      |
| 35) Dibromofluoromethane  | 7.55   | 113 | 82209    | 51.10 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.20% |      |
| 50) Toluene-d8            | 10.06  | 98  | 314763   | 49.76 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.52%  |      |
| 62) 4-Bromofluorobenzene  | 12.37  | 95  | 107524   | 49.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.12%  |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 101539 | 50.452  | ug/l | 99     |
| 3) Chloromethane              | 2.03 | 50  | 104542 | 48.695  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.16 | 62  | 131422 | 51.350  | ug/l | 98     |
| 5) Bromomethane               | 2.52 | 94  | 95753  | 48.719  | ug/l | 95     |
| 6) Chloroethane               | 2.66 | 64  | 87142  | 50.309  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 160843 | 52.613  | ug/l | 98     |
| 8) Diethyl Ether              | 3.37 | 74  | 50454  | 49.091  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 81287  | 51.828  | ug/l | 100    |
| 10) Methyl Iodide             | 3.91 | 142 | 98028  | 51.598  | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.73 | 59  | 64071  | 223.208 | ug/l | 98     |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 77383  | 49.241  | ug/l | 99     |
| 13) Acrolein                  | 3.56 | 56  | 46304  | 269.899 | ug/l | 98     |
| 14) Allyl chloride            | 4.27 | 41  | 100864 | 48.359  | ug/l | 99     |
| 15) Acrylonitrile             | 4.93 | 53  | 178409 | 250.837 | ug/l | 100    |
| 16) Acetone                   | 3.77 | 43  | 151894 | 247.900 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.00 | 76  | 221499 | 48.170  | ug/l | 99     |
| 18) Methyl Acetate            | 4.27 | 43  | 83381  | 47.267  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 4.99 | 73  | 255497 | 48.829  | ug/l | 97     |
| 20) Methylene Chloride        | 4.50 | 84  | 91471  | 45.822  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 4.99 | 96  | 89564  | 49.618  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.90 | 45  | 226601 | 47.504  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.84 | 43  | 919102 | 244.978 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 149512 | 47.880  | ug/l | 99     |
| 25) 2-Butanone                | 6.78 | 43  | 221541 | 247.819 | ug/l | 97     |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 129843 | 49.423  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 6.78 | 96  | 103275 | 49.585  | ug/l | 98     |
| 28) Bromochloromethane        | 7.15 | 49  | 68924  | 49.573  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.16 | 42  | 143607 | 244.095 | ug/l | 99     |
| 30) Chloroform                | 7.33 | 83  | 160469 | 48.084  | ug/l | 99     |
| 31) Cyclohexane               | 7.61 | 56  | 127213 | 46.537  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 139729 | 49.163  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 119952 | 52.294  | ug/l | 98     |
| 37) Ethyl Acetate             | 6.88 | 43  | 91055  | 50.834  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 122867 | 54.090  | ug/l | 99     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.05  | 83   | 137293   | 55.586   | ug/l   | 98       |
| 40) Benzene                    | 8.00  | 78   | 362254   | 52.135   | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.12  | 41   | 38971    | 50.879   | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 123484   | 52.120   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 156168   | 51.734   | ug/l   | 98       |
| 44) Trichloroethene            | 8.80  | 130  | 97837    | 53.502   | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 90039    | 52.729   | ug/l   | 97       |
| 46) Dibromomethane             | 9.17  | 93   | 64257    | 53.438   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.37  | 83   | 130505   | 53.003   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.17  | 41   | 70809    | 51.581   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.17  | 88   | 33370    | 1058.783 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 469688   | 263.303  | ug/l   | 99       |
| 52) Toluene                    | 10.12 | 92   | 239039   | 54.777   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 140357   | 53.697   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 151066   | 53.210   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 93099    | 54.223   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 125889   | 48.118   | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 155799   | 53.562   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 238006   | 262.657  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 340801   | 239.720  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.87 | 129  | 104274   | 54.427   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 96190    | 53.652   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.60 | 164  | 81179    | 53.271   | ug/l   | 99       |
| 65) Chlorobenzene              | 11.40 | 112  | 257250   | 50.990   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 94235    | 53.557   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.48 | 91   | 453783   | 53.647   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.59 | 106  | 354939   | 108.820  | ug/l   | 99       |
| 69) o-Xylene                   | 11.92 | 106  | 169205   | 54.369   | ug/l   | 99       |
| 70) Styrene                    | 11.94 | 104  | 286425   | 54.966   | ug/l   | 99       |
| 71) Bromoform                  | 12.10 | 173  | 69986    | 54.550   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.22 | 105  | 445096   | 51.565   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.04 | 43   | 139717   | 45.022   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 134824   | 48.043   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 108279m  | 45.405   | ug/l   |          |
| 77) Bromobenzene               | 12.50 | 156  | 109879   | 50.458   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.56 | 91   | 509109   | 51.691   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 295484   | 49.952   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 370622   | 51.899   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 44741    | 51.171   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.75 | 91   | 311527   | 50.967   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 311417   | 51.439   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 370706   | 52.588   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 411083   | 51.878   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 380403   | 53.874   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 202915   | 51.090   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 200900   | 49.416   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 311757   | 52.868   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 67001    | 51.837   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 194966   | 50.990   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 23233    | 50.995   | ug/l   | 98       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 93290    | 51.705 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 38267    | 53.850 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 260031   | 43.521 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 92209    | 51.603 | ug/l  | 100      |

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

