

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\  
 Data File : VN055589.D  
 Acq On : 14 May 2019 12:47  
 Operator : JC/SP  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/16/2019 1:31:49 PM

Quant Time: May 15 07:10:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051419W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 06:47:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 723443   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 1245928  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1082192  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 455919   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 514345   | 47.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.16%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 405762   | 50.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.86% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1600172  | 51.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.20% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 526093   | 50.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.62% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85   | 349238   | 47.281  | ug/l  | 100    |
| 3) Chloromethane              | 2.06 | 50   | 531949   | 44.765  | ug/l  | 100    |
| 4) Vinyl Chloride             | 2.19 | 62   | 532012   | 47.084  | ug/l  | 100    |
| 5) Bromomethane               | 2.54 | 94   | 306765   | 49.108  | ug/l  | 100    |
| 6) Chloroethane               | 2.69 | 64   | 324511   | 48.861  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 3.01 | 101  | 595370   | 47.981  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.41 | 74   | 267099   | 47.935  | ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101  | 376634   | 47.682  | ug/l  | 100    |
| 10) Methyl Iodide             | 3.95 | 142  | 534597   | 50.351  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 4.81 | 59   | 327829   | 212.300 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 3.73 | 96   | 384732   | 48.565  | ug/l  | 100    |
| 13) Acrolein                  | 3.60 | 56   | 313652   | 282.040 | ug/l  | 100    |
| 14) Allyl chloride            | 4.32 | 41   | 746326   | 46.592  | ug/l  | 100    |
| 15) Acrylonitrile             | 4.99 | 53   | 1096606  | 225.033 | ug/l  | 100    |
| 16) Acetone                   | 3.82 | 43   | 1117232  | 224.306 | ug/l  | 100    |
| 17) Carbon Disulfide          | 4.04 | 76   | 1106342  | 50.868  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.33 | 43   | 443862   | 36.469  | ug/l  | 100    |
| 19) Methyl tert-butyl Ether   | 5.05 | 73   | 1225085  | 47.077  | ug/l  | 100    |
| 20) Methylene Chloride        | 4.55 | 84   | 456313   | 44.469  | ug/l  | 100    |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96   | 422615   | 49.129  | ug/l  | 100    |
| 22) Diisopropyl ether         | 5.95 | 45   | 1542015  | 47.441  | ug/l  | 100    |
| 23) Vinyl Acetate             | 5.90 | 43   | 6037418  | 241.357 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63   | 830198   | 46.936  | ug/l  | 100    |
| 25) 2-Butanone                | 6.84 | 43   | 1531879  | 225.839 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 6.82 | 77   | 532480   | 48.353  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96   | 485730   | 49.119  | ug/l  | 100    |
| 28) Bromochloromethane        | 7.19 | 49   | 407153   | 44.996  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.22 | 42   | 980750   | 218.521 | ug/l  | 100    |
| 30) Chloroform                | 7.37 | 83   | 768166   | 47.037  | ug/l  | 100    |
| 31) Cyclohexane               | 7.65 | 56   | 800847   | 45.732  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97   | 608497   | 48.760  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 7.79 | 75   | 604342   | 49.498  | ug/l  | 100    |
| 37) Ethyl Acetate             | 6.93 | 43   | 593153   | 45.421  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 7.77 | 117  | 501539   | 48.507  | ug/l  | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\  
 Data File : VN055589.D  
 Acq On : 14 May 2019 12:47  
 Operator : JC/SP  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/16/2019 1:31:49 PM

Quant Time: May 15 07:10:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051419W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 06:47:21 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 712266   | 47.879  | ug/l  | 100      |
| 40) Benzene                    | 8.04  | 78   | 1856978  | 49.061  | ug/l  | 100      |
| 41) Methacrylonitrile          | 7.17  | 41   | 292009   | 48.303  | ug/l  | 100      |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 609899   | 46.031  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 918892   | 46.461  | ug/l  | 100      |
| 44) Trichloroethene            | 8.83  | 130  | 448368   | 49.439  | ug/l  | 100      |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 510086   | 47.203  | ug/l  | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 296730   | 47.409  | ug/l  | 100      |
| 47) Bromodichloromethane       | 9.40  | 83   | 590741   | 49.131  | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.20  | 41   | 446261   | 46.691  | ug/l  | 100      |
| 49) 1,4-Dioxane                | 9.20  | 88   | 166629   | 900.371 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 2880571  | 222.520 | ug/l  | 100      |
| 52) Toluene                    | 10.16 | 92   | 1088314  | 50.233  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 593775   | 51.660  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 719573   | 52.223  | ug/l  | 100      |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 423118   | 48.307  | ug/l  | 100      |
| 56) Ethyl methacrylate         | 10.43 | 69   | 626330   | 48.571  | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 747207   | 48.217  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 867325   | 244.046 | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 1994206  | 219.993 | ug/l  | 100      |
| 60) Dibromochloromethane       | 10.90 | 129  | 410611   | 51.526  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 415248   | 49.484  | ug/l  | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 418463   | 47.292  | ug/l  | 100      |
| 65) Chlorobenzene              | 11.43 | 112  | 1104601  | 49.711  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 390967   | 50.945  | ug/l  | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 2026459  | 48.812  | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 1498034  | 100.265 | ug/l  | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 730205   | 49.795  | ug/l  | 100      |
| 70) Styrene                    | 11.96 | 104  | 1219916  | 52.054  | ug/l  | 100      |
| 71) Bromoform                  | 12.13 | 173  | 269626   | 52.461  | ug/l  | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 1908383  | 42.833  | ug/l  | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 742206   | 43.927  | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 586043   | 40.577  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 481491m  | 39.458  | ug/l  |          |
| 77) Bromobenzene               | 12.53 | 156  | 449157   | 44.721  | ug/l  | 100      |
| 78) n-propylbenzene            | 12.59 | 91   | 2194193  | 45.122  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 1323538  | 43.738  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1621942  | 44.796  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 146882   | 44.612  | ug/l  | 100      |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 1297017  | 45.327  | ug/l  | 100      |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1342596  | 43.309  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1557350  | 46.914  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1794725  | 43.620  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1541275  | 46.037  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 749295   | 48.459  | ug/l  | 100      |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 728740   | 47.699  | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.61 | 91   | 1215326  | 47.300  | ug/l  | 100      |
| 90) Hexachloroethane           | 13.87 | 117  | 241425   | 44.147  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 746557   | 48.248  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 91034    | 44.434  | ug/l  | 100      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\  
Data File : VN055589.D  
Acq On : 14 May 2019 12:47  
Operator : JC/SP  
Sample : VSTDICCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

MMDadoda  
5/16/2019 1:31:49 PM

Quant Time: May 15 07:10:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051419W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 15 06:47:21 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 294790   | 56.331 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 225893   | 40.758 | ug/l  | 100      |
| 95) Naphthalene            | 15.13 | 128  | 775219   | 50.696 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 317629   | 51.770 | ug/l  | 100      |

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\  
 Data File : VN055589.D  
 Acq On : 14 May 2019 12:47  
 Operator : JC/SP  
 Sample : VSTDICCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 Client Sampled :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/16/2019 1:31:49 PM

Quant Time: May 15 07:10:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051419W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 15 06:47:21 2019  
 Response via : Initial Calibration

