

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011619\  
 Data File : VW008300.D  
 Acq On : 16 Jan 2019 11:10  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 1/17/2019 11:33:23 AM

Quant Time: Jan 17 05:35:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 96620    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 156110   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 143432   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 72546    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.30  | 65   | 39644    | 36.51 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 73.02% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 41165    | 45.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.42% |          |
| 50) Toluene-d8              | 10.32 | 98   | 168319   | 44.05 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.10% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 58113    | 42.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 84.86% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 35360    | 44.842  | ug/l   | 99     |
| 3) Chloromethane              | 2.21 | 50   | 48802    | 47.704  | ug/l   | 96     |
| 4) Vinyl Chloride             | 2.37 | 62   | 66369    | 49.708  | ug/l   | 93     |
| 5) Bromomethane               | 2.78 | 94   | 45566    | 45.557  | ug/l   | 100    |
| 6) Chloroethane               | 2.92 | 64   | 43270    | 43.067  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 53204    | 49.014  | ug/l   | 94     |
| 8) Diethyl Ether              | 3.67 | 74   | 27035    | 44.056  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101  | 53924    | 50.035  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.26 | 142  | 74013    | 47.121  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 14598    | 215.681 | ug/l # | 100    |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 51572    | 48.740  | ug/l   | 94     |
| 13) Acrolein                  | 3.89 | 56   | 18646    | 257.959 | ug/l   | 99     |
| 14) Allyl chloride            | 4.66 | 41   | 88440    | 46.037  | ug/l   | 98     |
| 15) Acrylonitrile             | 5.37 | 53   | 51827    | 221.837 | ug/l   | 98     |
| 16) Acetone                   | 4.12 | 43   | 52996    | 273.491 | ug/l   | 90     |
| 17) Carbon Disulfide          | 4.37 | 76   | 154768   | 46.823  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 31601    | 46.043  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 70867    | 41.198  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.90 | 84   | 53450    | 49.991  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 56567    | 49.195  | ug/l   | 96     |
| 22) Diisopropyl ether         | 6.31 | 45   | 165303   | 45.118  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.25 | 43   | 423825   | 220.256 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 102485   | 48.008  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 70027    | 231.771 | ug/l   | 96     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 67218    | 46.471  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 61604    | 49.105  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.51 | 49   | 34289    | 40.609  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 44129    | 218.650 | ug/l   | 98     |
| 30) Chloroform                | 7.67 | 83   | 101855   | 50.126  | ug/l   | 96     |
| 31) Cyclohexane               | 7.95 | 56   | 99075    | 43.353  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 86595    | 48.978  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 85120    | 52.932  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.25 | 43   | 29403    | 45.639  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 82975    | 56.375  | ug/l   | 97     |

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Quant Time: Jan 17 05:35:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W010819S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 09 04:40:48 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 107510   | 52.726   | ug/l   | 90       |
| 40) Benzene                    | 8.32  | 78   | 233670   | 53.574   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 18614    | 45.738   | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 59681    | 48.651   | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 57953    | 44.991   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 62928    | 56.361   | ug/l   | 86       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 57369    | 53.047   | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 27815    | 52.370   | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.64  | 83   | 72317    | 53.623   | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.44  | 41   | 27968    | 46.015   | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 9933     | 1162.916 | ug/l # | 85       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 146436   | 234.856  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 150207   | 53.925   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 72724    | 51.841   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 85296    | 51.275   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 39144    | 52.493   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 46627    | 50.490   | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 68708    | 50.381   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 108796   | 228.072  | ug/l   | 97       |
| 59) 2-Hexanone                 | 10.97 | 43   | 103494   | 245.451  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 47832    | 58.413   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 38247    | 54.054   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 51336    | 54.996   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 162542   | 53.490   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 55233    | 55.884   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.73 | 91   | 297830   | 53.566   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 233036   | 109.809  | ug/l   | 97       |
| 69) o-Xylene                   | 12.17 | 106  | 107897   | 54.903   | ug/l   | 95       |
| 70) Styrene                    | 12.18 | 104  | 171698   | 55.779   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 25728    | 58.164   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 298173   | 52.352   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 54518    | 43.223   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 42961    | 47.124   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 31482m   | 47.604   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 63344    | 52.635   | ug/l   | 88       |
| 78) n-propylbenzene            | 12.80 | 91   | 364590   | 52.244   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 197403   | 50.702   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 244841   | 52.312   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 13415    | 47.237   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 208951   | 50.956   | ug/l   | 97       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 221146   | 53.408   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 252973   | 52.406   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 319807   | 52.726   | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 282300   | 53.897   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 133088   | 54.516   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 129234   | 52.763   | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 272469   | 53.114   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 50413    | 56.984   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 112947   | 52.644   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6821     | 46.492   | ug/l   | 91       |

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| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 74655    | 52.410 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 45835    | 60.119 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 129270   | 48.603 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 65052    | 53.572 | ug/l  | 96       |

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

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