

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW111218\  
 Data File : VW006802.D  
 Acq On : 12 Nov 2018 11:40  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 12 12:01:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 00:52:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 333283   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 429619   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 414684   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 235110   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 100174   | 41.01 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.02% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 113760   | 46.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.04% |          |
| 50) Toluene-d8              | 10.33 | 98   | 488649   | 47.48 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.96% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 176781   | 47.17 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.34% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 130455   | 48.143  | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50   | 147478   | 45.334  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.36 | 62   | 160081   | 46.807  | ug/l   | 99     |
| 5) Bromomethane               | 2.78 | 94   | 109047   | 45.711  | ug/l   | 99     |
| 6) Chloroethane               | 2.92 | 64   | 99242    | 44.341  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.27 | 101  | 208807   | 48.592  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.69 | 74   | 54133    | 43.303  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.07 | 101  | 134719   | 47.183  | ug/l   | 99     |
| 10) Methyl Iodide             | 4.28 | 142  | 205691   | 51.854  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.21 | 59   | 33587    | 208.920 | ug/l # | 87     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 120237   | 50.502  | ug/l   | 97     |
| 13) Acrolein                  | 3.90 | 56   | 53227    | 317.899 | ug/l   | 98     |
| 14) Allyl chloride            | 4.68 | 41   | 155522   | 48.457  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.38 | 53   | 104212   | 208.266 | ug/l   | 99     |
| 16) Acetone                   | 4.14 | 43   | 68286    | 193.132 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.39 | 76   | 374513   | 47.686  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.68 | 43   | 47448    | 38.241  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 259373   | 44.478  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.92 | 84   | 145476   | 50.302  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96   | 137085   | 48.137  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.32 | 45   | 308353   | 45.589  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.26 | 43   | 859494   | 222.806 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 6.22 | 63   | 211338   | 47.764  | ug/l   | 97     |
| 25) 2-Butanone                | 7.18 | 43   | 118696   | 203.322 | ug/l   | 97     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 214890   | 50.975  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 143635   | 47.071  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.52 | 49   | 72525    | 43.762  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 75375    | 196.993 | ug/l   | 99     |
| 30) Chloroform                | 7.68 | 83   | 225625   | 46.021  | ug/l   | 98     |
| 31) Cyclohexane               | 7.96 | 56   | 214954   | 47.171  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97   | 226708   | 48.724  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 197814   | 50.742  | ug/l   | 100    |
| 37) Ethyl Acetate             | 7.26 | 43   | 55289    | 39.936  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 214017   | 51.382  | ug/l   | 99     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 12 12:01:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 00:52:45 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 254315   | 51.237  | ug/l   | 98       |
| 40) Benzene                    | 8.33  | 78   | 533304   | 48.445  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 36038    | 44.868  | ug/l   | 91       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 135545   | 45.235  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 105939   | 40.818  | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 168281   | 49.719  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 121239   | 46.894  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 64653    | 44.541  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 164943   | 46.829  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 52103    | 42.626  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.48  | 88   | 21545    | 991.435 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 269163   | 201.859 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 385943   | 49.866  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 162194   | 47.489  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 197579   | 48.792  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 93730    | 43.832  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 104168   | 44.114  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 151652   | 44.363  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 256375   | 218.013 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 196920   | 217.911 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 119562   | 46.515  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 91759    | 44.601  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.87 | 164  | 159261   | 50.293  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 443005   | 50.189  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 139423   | 49.307  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.74 | 91   | 773408   | 52.085  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.85 | 106  | 635689   | 104.955 | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 292890   | 52.526  | ug/l   | 100      |
| 70) Styrene                    | 12.19 | 104  | 468837   | 51.729  | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 73290    | 46.791  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 814005   | 53.811  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 109795   | 44.530  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 99317    | 44.069  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 134804   | 78.624  | ug/l # | 100      |
| 77) Bromobenzene               | 12.75 | 156  | 196392   | 50.210  | ug/l   | 99       |
| 78) n-propylbenzene            | 12.81 | 91   | 960329   | 53.429  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 529520   | 52.296  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 702047   | 53.564  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 31277    | 48.502  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 564589   | 52.172  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 615405   | 54.339  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 709024   | 52.800  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 873116   | 53.866  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 809742   | 54.768  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 403559   | 50.785  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 397362   | 50.207  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 731707   | 53.621  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 124002   | 53.461  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 348413   | 50.119  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 15799    | 43.415  | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Quant Time: Nov 12 12:01:47 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W110918S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 00:52:45 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 255978   | 49.742 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 168524   | 52.035 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 373804   | 47.472 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 212334   | 47.698 | ug/l  | 99       |

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

