

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022519\  
 Data File : VW008802.D  
 Acq On : 25 Feb 2019 13:09  
 Operator : SY/VA  
 Sample : VW0225SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0225SBS01

Quant Time: Feb 26 03:56:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 315036   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 452457   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 425694   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 230927   | 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   | 147652   | 49.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.94%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 144738   | 53.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.56% |          |
| 50) Toluene-d8              | 10.32 | 98   | 545252   | 51.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.98% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 202873   | 49.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.82%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 64906    | 20.570 | ug/l  | 92     |
| 3) Chloromethane              | 2.21 | 50   | 79457    | 20.687 | ug/l  | 96     |
| 4) Vinyl Chloride             | 2.35 | 62   | 82345    | 20.249 | ug/l  | 100    |
| 5) Bromomethane               | 2.76 | 94   | 61375    | 20.319 | ug/l  | 98     |
| 6) Chloroethane               | 2.91 | 64   | 54749    | 18.959 | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 114902   | 22.340 | ug/l  | 95     |
| 8) Diethyl Ether              | 3.69 | 74   | 31318    | 19.233 | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 68762    | 22.016 | ug/l  | 98     |
| 10) Methyl Iodide             | 4.27 | 142  | 75539    | 19.341 | ug/l  | 98     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 23625    | 89.811 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 61282    | 22.217 | ug/l  | 87     |
| 13) Acrolein                  | 3.90 | 56   | 20471    | 87.722 | ug/l  | 98     |
| 14) Allyl chloride            | 4.67 | 41   | 101387   | 21.297 | ug/l  | 96     |
| 15) Acrylonitrile             | 5.37 | 53   | 61992    | 88.710 | ug/l  | 98     |
| 16) Acetone                   | 4.13 | 43   | 64112    | 93.610 | ug/l  | 94     |
| 17) Carbon Disulfide          | 4.38 | 76   | 187328   | 20.469 | ug/l  | 98     |
| 18) Methyl Acetate            | 4.67 | 43   | 27473    | 16.912 | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 144178   | 19.311 | ug/l  | 99     |
| 20) Methylene Chloride        | 4.91 | 84   | 77463    | 19.882 | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96   | 68765    | 21.552 | ug/l  | 91     |
| 22) Diisopropyl ether         | 6.31 | 45   | 196460   | 20.687 | ug/l  | 99     |
| 23) Vinyl Acetate             | 6.25 | 43   | 576473   | 98.247 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 117586   | 21.367 | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 85104    | 88.880 | ug/l  | 95     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 115583   | 23.134 | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 72789    | 21.327 | ug/l  | 97     |
| 28) Bromochloromethane        | 7.51 | 49   | 49430    | 21.465 | ug/l  | 99     |
| 29) Tetrahydrofuran           | 7.53 | 42   | 53296    | 87.342 | ug/l  | 98     |
| 30) Chloroform                | 7.67 | 83   | 121186   | 21.466 | ug/l  | 95     |
| 31) Cyclohexane               | 7.95 | 56   | 122175   | 21.933 | ug/l  | 94     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 113687   | 22.144 | ug/l  | 97     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 96728    | 21.962 | ug/l  | 97     |
| 37) Ethyl Acetate             | 7.26 | 43   | 35140    | 17.157 | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 106095   | 22.841 | ug/l  | 97     |

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 ClientSampleId :  
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Quant Time: Feb 26 03:56:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 22 00:38:32 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 117836   | 21.449  | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 260084   | 21.628  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 21302    | 17.694  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 77876    | 20.443  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 73206    | 17.909  | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 75911    | 22.408  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 63838    | 21.482  | ug/l   | 90       |
| 46) Dibromomethane             | 9.46  | 93   | 32790    | 19.837  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 87127    | 21.665  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.43  | 41   | 32318    | 16.508  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8969     | 338.834 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 172483   | 83.112  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 171376   | 20.999  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 84439    | 20.600  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 101520   | 21.715  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 46566    | 20.773  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 50730    | 17.419  | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 78078    | 19.727  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 142601   | 97.355  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 121706   | 82.384  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 55780    | 20.401  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 43699    | 19.694  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 64497    | 21.166  | ug/l   | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 189271   | 21.145  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 64235    | 21.224  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 338140   | 21.132  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 272126   | 42.563  | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 127110   | 21.182  | ug/l   | 99       |
| 70) Styrene                    | 12.18 | 104  | 199272   | 20.640  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 30970    | 19.036  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 345431   | 21.820  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 67467    | 16.919  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 48356    | 18.694  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 33551m   | 17.597  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 78907    | 21.092  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.80 | 91   | 421410   | 21.761  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 232897   | 21.183  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 299774   | 21.790  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 15151    | 19.319  | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 250542   | 21.624  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 262642   | 22.079  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 300535   | 21.103  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 373132   | 21.815  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 335459   | 21.393  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 164871   | 21.241  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 160854   | 21.027  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 319428   | 21.744  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 56885    | 22.160  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 139596   | 20.185  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 8375     | 17.898  | ug/l   | 97       |

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ALS Vial : 4 Sample Multiplier: 1

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MSVOA\_W  
ClientSampleId :  
VW0225SBS01

Quant Time: Feb 26 03:56:22 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W022119S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 22 00:38:32 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 101899   | 20.449 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 63601    | 21.669 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 155954   | 18.382 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 88534    | 20.549 | ug/l  | 99       |

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

