

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111318\  
 Data File : VD060355.D  
 Acq On : 13 Nov 2018 12:41  
 Operator : JC/SY  
 Sample : VD1113SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1113SBS01

Quant Time: Nov 14 12:34:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.42  | 168  | 1563709  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.46  | 114  | 2153794  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 1736082  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 905523   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.80  | 65   | 560010   | 50.02  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.04% |          |
| 35) Dibromofluoromethane    | 6.33  | 113  | 798739   | 49.73  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.46%  |          |
| 50) Toluene-d8              | 9.46  | 98   | 2338370  | 49.75  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.50%  |          |
| 62) 4-Bromofluorobenzene    | 12.44 | 95   | 828394   | 48.64  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.28%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85   | 316196   | 23.337  | ug/l  | 98     |
| 3) Chloromethane              | 1.77 | 50   | 289435   | 19.541  | ug/l  | 97     |
| 4) Vinyl Chloride             | 1.86 | 62   | 242203   | 20.023  | ug/l  | 95     |
| 5) Bromomethane               | 2.15 | 94   | 46153    | 16.082  | ug/l  | 100    |
| 6) Chloroethane               | 2.27 | 64   | 69624    | 17.347  | ug/l  | 100    |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 288977   | 20.263  | ug/l  | 95     |
| 8) Diethyl Ether              | 2.83 | 74   | 49117    | 19.022  | ug/l  | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.10 | 101  | 192122   | 20.482  | ug/l  | 99     |
| 10) Methyl Iodide             | 3.25 | 142  | 214353   | 17.595  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 3.98 | 59   | 40091    | 87.199  | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 3.09 | 96   | 152606   | 20.001  | ug/l  | 94     |
| 13) Acrolein                  | 3.00 | 56   | 41685    | 76.731  | ug/l  | 97     |
| 14) Allyl chloride            | 3.54 | 41   | 295916   | 20.270  | ug/l  | 96     |
| 15) Acrylonitrile             | 4.10 | 53   | 253443   | 94.529  | ug/l  | 99     |
| 16) Acetone                   | 3.16 | 43   | 187988   | 96.794  | ug/l  | 98     |
| 17) Carbon Disulfide          | 3.32 | 76   | 478414   | 19.426  | ug/l  | 99     |
| 18) Methyl Acetate            | 3.57 | 43   | 72918    | 17.608  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 4.14 | 73   | 449577   | 19.678  | ug/l  | 99     |
| 20) Methylene Chloride        | 3.73 | 84   | 392216   | 22.766  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 4.11 | 96   | 348639   | 20.579  | ug/l  | 98     |
| 22) Diisopropyl ether         | 4.87 | 45   | 1128038  | 20.682  | ug/l  | 99     |
| 23) Vinyl Acetate             | 4.82 | 43   | 2815556  | 103.744 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 4.77 | 63   | 589080   | 21.062  | ug/l  | 99     |
| 25) 2-Butanone                | 5.64 | 43   | 406082   | 100.594 | ug/l  | 100    |
| 26) 2,2-Dichloropropane       | 5.60 | 77   | 471010   | 21.661  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 5.61 | 96   | 365865   | 20.730  | ug/l  | 95     |
| 28) Bromochloromethane        | 5.94 | 49   | 244672   | 19.826  | ug/l  | 90     |
| 29) Tetrahydrofuran           | 5.97 | 42   | 206525   | 97.036  | ug/l  | 100    |
| 30) Chloroform                | 6.11 | 83   | 597125   | 21.356  | ug/l  | 96     |
| 31) Cyclohexane               | 6.37 | 56   | 531180   | 19.870  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 6.30 | 97   | 470046   | 19.957  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 6.53 | 75   | 465462   | 21.875  | ug/l  | 96     |
| 37) Ethyl Acetate             | 5.70 | 43   | 195023   | 19.918  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 6.51 | 117  | 414886   | 21.019  | ug/l  | 99     |

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 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Quant Time: Nov 14 12:34:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.06  | 83   | 513674   | 20.989  | ug/l   | 98       |
| 40) Benzene                    | 6.81  | 78   | 1185898  | 21.833  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.96  | 41   | 223315   | 19.927  | ug/l # | 96       |
| 42) 1,2-Dichloroethane         | 6.90  | 62   | 292822   | 20.597  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.36  | 43   | 235904   | 19.180  | ug/l # | 97       |
| 44) Trichloroethene            | 7.75  | 130  | 351567   | 21.352  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 8.11  | 63   | 287906   | 21.017  | ug/l   | 97       |
| 46) Dibromomethane             | 8.22  | 93   | 162694   | 20.278  | ug/l   | 95       |
| 47) Bromodichloromethane       | 8.50  | 83   | 394714   | 20.878  | ug/l   | 99       |
| 48) Methyl methacrylate        | 8.25  | 41   | 144611   | 19.357  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 8.25  | 88   | 26501    | 409.974 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone       | 9.35  | 43   | 777166   | 97.083  | ug/l   | 100      |
| 52) Toluene                    | 9.56  | 92   | 737866   | 21.267  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.93  | 75   | 328054   | 20.537  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.12  | 75   | 422731   | 20.633  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.19 | 97   | 201225   | 20.010  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.04 | 69   | 174963   | 18.923  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.40 | 76   | 313020   | 20.428  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.93  | 63   | 571594   | 102.240 | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.50 | 43   | 598174   | 104.840 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.65 | 129  | 249717   | 20.428  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.77 | 107  | 195559   | 19.409  | ug/l   | 95       |
| 64) Tetrachloroethene          | 10.26 | 164  | 328615   | 21.203  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.32 | 112  | 795866   | 21.158  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.43 | 131  | 265508   | 21.573  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.44 | 91   | 1397288  | 21.715  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.58 | 106  | 1043976  | 43.981  | ug/l   | 100      |
| 69) o-Xylene                   | 11.94 | 106  | 482916   | 21.059  | ug/l   | 97       |
| 70) Styrene                    | 11.96 | 104  | 765465   | 20.655  | ug/l   | 96       |
| 71) Bromoform                  | 12.12 | 173  | 161386   | 19.514  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.29 | 105  | 1336046  | 20.251  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.14 | 43   | 294804   | 17.429  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.57 | 83   | 212394   | 19.685  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.60 | 75   | 206909   | 19.101  | ug/l   | 98       |
| 77) Bromobenzene               | 12.55 | 156  | 350536   | 20.003  | ug/l   | 90       |
| 78) n-propylbenzene            | 12.64 | 91   | 1659744  | 20.155  | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.71 | 91   | 932129   | 20.667  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 1055016  | 20.577  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.35 | 75   | 56400    | 18.289  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 12.82 | 91   | 1049504  | 20.715  | ug/l   | 94       |
| 83) tert-Butylbenzene          | 13.06 | 119  | 1208825  | 21.236  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.10 | 105  | 1070252  | 20.901  | ug/l   | 96       |
| 85) sec-Butylbenzene           | 13.23 | 105  | 1420563  | 20.341  | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 13.35 | 119  | 1195842  | 21.263  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.32 | 146  | 647446   | 20.766  | ug/l   | 95       |
| 88) 1,4-Dichlorobenzene        | 13.40 | 146  | 631534   | 20.740  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.66 | 91   | 1247376  | 20.185  | ug/l   | 97       |
| 90) Hexachloroethane           | 13.86 | 117  | 268583   | 20.140  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene        | 13.67 | 146  | 534299   | 20.863  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 25534    | 19.605  | ug/l   | 79       |

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Sample : VD1113SBS01  
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ALS Vial : 5 Sample Multiplier: 1

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MSVOA\_D  
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Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:56:04 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.80 | 180  | 401041   | 19.751 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.89 | 225  | 313082   | 20.615 | ug/l  | 97       |
| 95) Naphthalene            | 14.97 | 128  | 478730   | 19.309 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.12 | 180  | 328029   | 20.161 | ug/l  | 98       |

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

