

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042619\  
 Data File : VD062055.D  
 Acq On : 26 Apr 2019 12:05  
 Operator : VA/AP  
 Sample : VD0426SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0426SBS01

Quant Time: Apr 26 23:04:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 14:52:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.07  | 168  | 526085   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 796020   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 667750   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 319105   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.48  | 65   | 219986   | 53.43 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 106.86% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 304923   | 55.39 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 110.78% |          |
| 50) Toluene-d8              | 10.43 | 98   | 722715   | 55.17 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 110.34% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 288688   | 54.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.88% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85   | 84850    | 18.063  | ug/l   | 98     |
| 3) Chloromethane              | 1.76 | 50   | 73402    | 18.385  | ug/l   | 95     |
| 4) Vinyl Chloride             | 1.86 | 62   | 71263    | 19.693  | ug/l   | 99     |
| 5) Bromomethane               | 2.15 | 94   | 20739    | 19.087  | ug/l   | 99     |
| 6) Chloroethane               | 2.26 | 64   | 27344    | 20.904  | ug/l   | 91     |
| 7) Trichlorofluoromethane     | 2.54 | 101  | 123694   | 22.607  | ug/l   | 97     |
| 8) Diethyl Ether              | 2.88 | 74   | 30631    | 20.888  | ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101  | 111313   | 22.085  | ug/l   | 97     |
| 10) Methyl Iodide             | 3.33 | 142  | 116431   | 18.945  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.08 | 59   | 24040    | 103.337 | ug/l # | 91     |
| 12) 1,1-Dichloroethene        | 3.14 | 96   | 88700    | 20.685  | ug/l   | 92     |
| 13) Acrolein                  | 3.05 | 56   | 23584    | 97.706  | ug/l   | 97     |
| 14) Allyl chloride            | 3.64 | 41   | 119810   | 20.461  | ug/l   | 97     |
| 15) Acrylonitrile             | 4.21 | 53   | 69011    | 95.799  | ug/l   | 97     |
| 16) Acetone                   | 3.23 | 43   | 96871    | 98.534  | ug/l # | 89     |
| 17) Carbon Disulfide          | 3.39 | 76   | 244023   | 19.693  | ug/l   | 98     |
| 18) Methyl Acetate            | 3.65 | 43   | 41969    | 22.343  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73   | 178622   | 20.994  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.84 | 84   | 110018   | 21.147  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 4.24 | 96   | 93274    | 18.961  | ug/l   | 98     |
| 22) Diisopropyl ether         | 5.15 | 45   | 259925   | 19.013  | ug/l   | 98     |
| 23) Vinyl Acetate             | 5.08 | 43   | 692511   | 97.272  | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 5.01 | 63   | 168968   | 20.449  | ug/l   | 100    |
| 25) 2-Butanone                | 6.09 | 43   | 108983   | 91.432  | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 6.04 | 77   | 152982   | 21.223  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 6.06 | 96   | 109015   | 19.480  | ug/l   | 98     |
| 28) Bromochloromethane        | 6.47 | 49   | 63907    | 20.214  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 6.48 | 42   | 55137    | 93.881  | ug/l   | 97     |
| 30) Chloroform                | 6.68 | 83   | 197898   | 21.086  | ug/l   | 100    |
| 31) Cyclohexane               | 6.99 | 56   | 111977   | 18.258  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 6.89 | 97   | 168917   | 20.686  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.17 | 75   | 141201   | 22.768  | ug/l   | 93     |
| 37) Ethyl Acetate             | 6.20 | 43   | 56429    | 21.352  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 7.14 | 117  | 182233   | 23.188  | ug/l   | 97     |

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Quant Time: Apr 26 23:04:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 14:52:55 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 39) Methylcyclohexane          | 8.89  | 83   | 131584   | 21.504  | ug/l   | 99       |
| 40) Benzene                    | 7.48  | 78   | 311550   | 20.291  | ug/l   | 100      |
| 41) Methacrylonitrile          | 6.47  | 41   | 68077    | 22.077  | ug/l # | 94       |
| 42) 1,2-Dichloroethane         | 7.60  | 62   | 116469   | 22.341  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 9.26  | 43   | 74186    | 19.212  | ug/l   | 90       |
| 44) Trichloroethene            | 8.56  | 130  | 123136   | 20.687  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 8.96  | 63   | 75450    | 19.371  | ug/l   | 96       |
| 46) Dibromomethane             | 9.08  | 93   | 60991    | 21.761  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.40  | 83   | 145367   | 21.951  | ug/l   | 96       |
| 48) Methyl methacrylate        | 9.14  | 41   | 48250    | 21.900  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 10300    | 433.622 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone       | 10.33 | 43   | 248660   | 105.295 | ug/l   | 98       |
| 52) Toluene                    | 10.53 | 92   | 216005   | 22.064  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 10.94 | 75   | 126196   | 22.702  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.06 | 75   | 144534   | 21.378  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 11.21 | 97   | 69445    | 21.130  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 11.06 | 69   | 72454    | 19.905  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 11.43 | 76   | 110970   | 21.861  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 175595   | 103.757 | ug/l   | 95       |
| 59) 2-Hexanone                 | 11.55 | 43   | 183227   | 103.430 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.70 | 129  | 121827   | 22.402  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.82 | 107  | 81062    | 20.792  | ug/l   | 100      |
| 64) Tetrachloroethene          | 11.28 | 164  | 93359    | 19.599  | ug/l   | 96       |
| 65) Chlorobenzene              | 12.41 | 112  | 248003   | 19.655  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.53 | 131  | 116641   | 21.793  | ug/l   | 97       |
| 67) Ethyl Benzene              | 12.54 | 91   | 459440   | 22.308  | ug/l   | 98       |
| 68) m/p-Xylenes                | 12.69 | 106  | 305146   | 40.994  | ug/l   | 99       |
| 69) o-Xylene                   | 13.06 | 106  | 157799   | 23.169  | ug/l   | 94       |
| 70) Styrene                    | 13.08 | 104  | 263277   | 22.388  | ug/l   | 96       |
| 71) Bromoform                  | 13.25 | 173  | 69662    | 22.829  | ug/l   | 97       |
| 73) Isopropylbenzene           | 13.42 | 105  | 394274   | 18.522  | ug/l   | 99       |
| 74) N-amyl acetate             | 13.28 | 43   | 106879   | 19.496  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 81895    | 19.633  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 80578    | 19.885  | ug/l   | 99       |
| 77) Bromobenzene               | 13.68 | 156  | 111183   | 18.208  | ug/l   | 91       |
| 78) n-propylbenzene            | 13.79 | 91   | 508501   | 20.868  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 287242   | 19.461  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 13.95 | 105  | 325109   | 19.154  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 13.49 | 75   | 23062    | 18.781  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.96 | 91   | 316197   | 19.452  | ug/l   | 89       |
| 83) tert-Butylbenzene          | 14.20 | 119  | 387920   | 19.729  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 14.25 | 105  | 332840   | 20.537  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 14.38 | 105  | 436081   | 20.526  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 397121   | 20.886  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene        | 14.47 | 146  | 216389   | 20.236  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 14.55 | 146  | 205287   | 20.528  | ug/l   | 98       |
| 89) n-Butylbenzene             | 14.81 | 91   | 350386   | 20.526  | ug/l   | 99       |
| 90) Hexachloroethane           | 15.02 | 117  | 103644   | 20.158  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 14.82 | 146  | 181332   | 20.557  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.40 | 75   | 11435    | 20.213  | ug/l   | 94       |

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Sample : VD0426SBS01  
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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0426SBS01

Quant Time: Apr 26 23:04:18 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 23 14:52:55 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.96 | 180  | 99258    | 20.855 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 67697    | 19.221 | ug/l  | 96       |
| 95) Naphthalene            | 16.13 | 128  | 143255   | 18.642 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 61480    | 22.767 | ug/l  | 97       |

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

