

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042219\  
 Data File : VD061938.D  
 Acq On : 22 Apr 2019 14:58  
 Operator : VA/AP  
 Sample : VD0422SBS01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0422SBS01

Quant Time: Apr 22 23:31:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 583072   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 987264   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 697311   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 375634   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 259792   | 53.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.32% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 382887   | 51.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.66% |          |
| 50) Toluene-d8              | 10.41 | 98   | 848739   | 48.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.04%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 324244   | 45.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.54%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85   | 100305   | 17.625  | ug/l  | 94     |
| 3) Chloromethane              | 1.75 | 50   | 88561    | 19.526  | ug/l  | 91     |
| 4) Vinyl Chloride             | 1.85 | 62   | 81751    | 18.162  | ug/l  | 96     |
| 5) Bromomethane               | 2.15 | 94   | 20742    | 18.252  | ug/l  | 99     |
| 6) Chloroethane               | 2.26 | 64   | 24608    | 16.025  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 2.52 | 101  | 130903   | 17.931  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.87 | 74   | 32099    | 16.778  | ug/l  | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.15 | 101  | 119827   | 18.409  | ug/l  | 97     |
| 10) Methyl Iodide             | 3.31 | 142  | 137877   | 15.850  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 4.06 | 59   | 31846    | 110.507 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 3.12 | 96   | 97700    | 17.854  | ug/l  | 96     |
| 13) Acrolein                  | 3.04 | 56   | 17123    | 61.376  | ug/l  | 91     |
| 14) Allyl chloride            | 3.63 | 41   | 156411   | 20.969  | ug/l  | 100    |
| 15) Acrylonitrile             | 4.20 | 53   | 93201    | 103.018 | ug/l  | 95     |
| 16) Acetone                   | 3.22 | 43   | 106996   | 88.839  | ug/l  | 99     |
| 17) Carbon Disulfide          | 3.38 | 76   | 282142   | 15.957  | ug/l  | 99     |
| 18) Methyl Acetate            | 3.63 | 43   | 49706    | 20.591  | ug/l  | 97     |
| 19) Methyl tert-butyl Ether   | 4.24 | 73   | 207966   | 20.364  | ug/l  | 98     |
| 20) Methylene Chloride        | 3.82 | 84   | 132081   | 19.241  | ug/l  | 95     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96   | 118991   | 19.786  | ug/l  | 99     |
| 22) Diisopropyl ether         | 5.11 | 45   | 350115   | 21.959  | ug/l  | 98     |
| 23) Vinyl Acetate             | 5.05 | 43   | 921976   | 108.172 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 4.98 | 63   | 210307   | 21.755  | ug/l  | 100    |
| 25) 2-Butanone                | 6.07 | 43   | 145187   | 105.886 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 6.03 | 77   | 178009   | 21.304  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 6.04 | 96   | 137932   | 21.157  | ug/l  | 92     |
| 28) Bromochloromethane        | 6.44 | 49   | 79500    | 21.651  | ug/l  | 88     |
| 29) Tetrahydrofuran           | 6.45 | 42   | 72242    | 108.161 | ug/l  | 99     |
| 30) Chloroform                | 6.67 | 83   | 233844   | 21.688  | ug/l  | 95     |
| 31) Cyclohexane               | 6.95 | 56   | 146695   | 19.823  | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 6.86 | 97   | 202941   | 21.232  | ug/l  | 96     |
| 36) 1,1-Dichloropropene       | 7.15 | 75   | 168153   | 20.843  | ug/l  | 96     |
| 37) Ethyl Acetate             | 6.17 | 43   | 65931    | 19.095  | ug/l  | 97     |
| 38) Carbon Tetrachloride      | 7.11 | 117  | 209906   | 20.605  | ug/l  | 97     |

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 Quant Title : SW846 8260  
 QLast Update : Thu Apr 18 13:49:04 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 8.87  | 83   | 158223   | 18.886  | ug/l  | 95       |
| 40) Benzene                    | 7.45  | 78   | 395303   | 20.410  | ug/l  | 100      |
| 41) Methacrylonitrile          | 6.44  | 41   | 83723    | 20.515  | ug/l  | 95       |
| 42) 1,2-Dichloroethane         | 7.58  | 62   | 135199   | 20.043  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 9.24  | 43   | 92153    | 18.966  | ug/l  | 97       |
| 44) Trichloroethene            | 8.54  | 130  | 149090   | 19.996  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 8.94  | 63   | 96198    | 19.068  | ug/l  | 97       |
| 46) Dibromomethane             | 9.06  | 93   | 72081    | 20.052  | ug/l  | 94       |
| 47) Bromodichloromethane       | 9.37  | 83   | 164799   | 19.872  | ug/l  | 98       |
| 48) Methyl methacrylate        | 9.12  | 41   | 57950    | 20.289  | ug/l  | 96       |
| 49) 1,4-Dioxane                | 9.08  | 88   | 12914    | 413.669 | ug/l  | 90       |
| 51) 4-Methyl-2-Pentanone       | 10.30 | 43   | 302172   | 101.692 | ug/l  | 99       |
| 52) Toluene                    | 10.51 | 92   | 270615   | 21.803  | ug/l  | 97       |
| 53) t-1,3-Dichloropropene      | 10.91 | 75   | 141536   | 18.940  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene    | 10.03 | 75   | 161057   | 18.361  | ug/l  | 96       |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 79066    | 18.905  | ug/l  | 97       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 89791    | 19.561  | ug/l  | 92       |
| 57) 1,3-Dichloropropane        | 11.40 | 76   | 113712   | 18.085  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.86  | 63   | 258076   | 118.203 | ug/l  | 100      |
| 59) 2-Hexanone                 | 11.53 | 43   | 229987   | 104.210 | ug/l  | 98       |
| 60) Dibromochloromethane       | 11.69 | 129  | 138442   | 20.230  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 98529    | 19.159  | ug/l  | 97       |
| 64) Tetrachloroethene          | 11.25 | 164  | 112987   | 21.606  | ug/l  | 96       |
| 65) Chlorobenzene              | 12.40 | 112  | 295382   | 22.746  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 122700   | 22.546  | ug/l  | 98       |
| 67) Ethyl Benzene              | 12.52 | 91   | 464699   | 22.345  | ug/l  | 99       |
| 68) m/p-Xylenes                | 12.66 | 106  | 350534   | 44.872  | ug/l  | 100      |
| 69) o-Xylene                   | 13.05 | 106  | 164120   | 22.352  | ug/l  | 94       |
| 70) Styrene                    | 13.08 | 104  | 285363   | 22.584  | ug/l  | 99       |
| 71) Bromoform                  | 13.23 | 173  | 67352    | 20.850  | ug/l  | 98       |
| 73) Isopropylbenzene           | 13.40 | 105  | 479676   | 19.690  | ug/l  | 99       |
| 74) N-amyl acetate             | 13.26 | 43   | 113296   | 17.295  | ug/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 92542    | 19.218  | ug/l  | 95       |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 89457    | 18.134  | ug/l  | 98       |
| 77) Bromobenzene               | 13.67 | 156  | 131649   | 19.024  | ug/l  | 87       |
| 78) n-propylbenzene            | 13.77 | 91   | 537698   | 19.104  | ug/l  | 97       |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 280143   | 17.038  | ug/l  | 93       |
| 80) 1,3,5-Trimethylbenzene     | 13.93 | 105  | 424460   | 21.959  | ug/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 26400    | 18.736  | ug/l  | 96       |
| 82) 4-Chlorotoluene            | 13.94 | 91   | 390553   | 20.752  | ug/l  | 87       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 461981   | 20.355  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 391579   | 20.153  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 14.37 | 105  | 543201   | 23.151  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 447445   | 20.382  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 14.45 | 146  | 250833   | 20.763  | ug/l  | 96       |
| 88) 1,4-Dichlorobenzene        | 14.53 | 146  | 256892   | 21.512  | ug/l  | 99       |
| 89) n-Butylbenzene             | 14.80 | 91   | 410078   | 21.103  | ug/l  | 96       |
| 90) Hexachloroethane           | 15.01 | 117  | 125368   | 20.952  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 214837   | 21.230  | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 13376    | 22.881  | ug/l  | 98       |

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Quant Title : SW846 8260  
QLast Update : Thu Apr 18 13:49:04 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 121350   | 21.834 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 16.04 | 225  | 87260    | 21.665 | ug/l  | 96       |
| 95) Naphthalene            | 16.13 | 128  | 188976   | 22.183 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 73000    | 23.048 | ug/l  | 94       |

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

