

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080819\  
 Data File : VD063450.D  
 Acq On : 8 Aug 2019 20:35  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 09 07:00:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 972002   | 50.00 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 1360673  | 50.00 | ug/l  | 0.02     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 1072567  | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 617597   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.46   | 65  | 542653   | 50.31 | ug/l    | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.62% |      |
| 35) Dibromofluoromethane    | 6.94   | 113 | 629994   | 54.23 | ug/l    | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.46% |      |
| 50) Toluene-d8              | 10.42  | 98  | 1376339  | 52.94 | ug/l    | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.88% |      |
| 62) 4-Bromofluorobenzene    | 13.56  | 95  | 576566   | 48.66 | ug/l    | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.32%  |      |

| Target Compounds              |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85  | 487929  | 41.067  | ug/l   | 98     |
| 3) Chloromethane              | 1.75 | 50  | 426126  | 46.162  | ug/l   | 92     |
| 4) Vinyl Chloride             | 1.85 | 62  | 437959  | 45.829  | ug/l   | 97     |
| 5) Bromomethane               | 2.15 | 94  | 220643  | 45.780  | ug/l   | 98     |
| 6) Chloroethane               | 2.27 | 64  | 201390  | 45.645  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 2.54 | 101 | 870870  | 46.974  | ug/l   | 96     |
| 8) Diethyl Ether              | 2.87 | 74  | 110434  | 42.562  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.15 | 101 | 535425  | 52.137  | ug/l   | 94     |
| 10) Methyl Iodide             | 3.31 | 142 | 718185  | 48.410  | ug/l   | 95     |
| 11) Tert butyl alcohol        | 4.09 | 59  | 112150  | 236.948 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 3.13 | 96  | 394650  | 52.346  | ug/l   | 88     |
| 13) Acrolein                  | 3.04 | 56  | 80405   | 176.514 | ug/l   | 96     |
| 14) Allyl chloride            | 3.63 | 41  | 576375  | 47.990  | ug/l   | 98     |
| 15) Acrylonitrile             | 4.20 | 53  | 301135  | 245.405 | ug/l   | 94     |
| 16) Acetone                   | 3.23 | 43  | 458017  | 217.958 | ug/l   | 100    |
| 17) Carbon Disulfide          | 3.38 | 76  | 1126849 | 44.655  | ug/l   | 98     |
| 18) Methyl Acetate            | 3.65 | 43  | 211048  | 52.286  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73  | 839279  | 49.282  | ug/l   | 100    |
| 20) Methylene Chloride        | 3.82 | 84  | 403952  | 47.557  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96  | 411955  | 48.698  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.13 | 45  | 1175573 | 48.992  | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.07 | 43  | 3655957 | 247.863 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 5.00 | 63  | 768616  | 50.148  | ug/l   | 98     |
| 25) 2-Butanone                | 6.08 | 43  | 517841  | 245.547 | ug/l # | 90     |
| 26) 2,2-Dichloropropane       | 6.03 | 77  | 767101  | 48.566  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.05 | 96  | 459435  | 50.657  | ug/l   | 93     |
| 28) Bromochloromethane        | 6.45 | 49  | 296045  | 48.479  | ug/l # | 92     |
| 29) Tetrahydrofuran           | 6.47 | 42  | 238045  | 238.410 | ug/l   | 98     |
| 30) Chloroform                | 6.67 | 83  | 932819  | 49.042  | ug/l   | 97     |
| 31) Cyclohexane               | 6.96 | 56  | 466738  | 48.583  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.88 | 97  | 947514  | 51.500  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.16 | 75  | 622912  | 50.163  | ug/l   | 100    |
| 37) Ethyl Acetate             | 6.19 | 43  | 250556  | 44.912  | ug/l # | 96     |
| 38) Carbon Tetrachloride      | 7.13 | 117 | 997929  | 53.380  | ug/l   | 98     |

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 Sample : VSTDCCC050  
 Misc : 5.00µl/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050EC

Quant Time: Aug 09 07:00:40 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.88  | 83   | 513931   | 49.674  | ug/l   | 99       |
| 40) Benzene                    | 7.47  | 78   | 1279417  | 49.160  | ug/l   | 97       |
| 41) Methacrylonitrile          | 6.46  | 41   | 317648   | 47.599  | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 7.59  | 62   | 710505   | 51.512  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 9.25  | 43   | 347986   | 48.831  | ug/l # | 95       |
| 44) Trichloroethene            | 8.55  | 130  | 507450   | 48.118  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 8.95  | 63   | 316938   | 47.912  | ug/l   | 92       |
| 46) Dibromomethane             | 9.08  | 93   | 273799   | 49.779  | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.38  | 83   | 686048   | 48.931  | ug/l   | 91       |
| 48) Methyl methacrylate        | 9.13  | 41   | 221498   | 47.924  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.10  | 88   | 36989    | 944.508 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 1208951  | 249.446 | ug/l   | 100      |
| 52) Toluene                    | 10.52 | 92   | 908436   | 52.481  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene      | 10.92 | 75   | 583585   | 48.279  | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene    | 10.05 | 75   | 607653   | 47.832  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 296019   | 50.636  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 11.05 | 69   | 322626   | 50.398  | ug/l   | 93       |
| 57) 1,3-Dichloropropane        | 11.42 | 76   | 460684   | 50.015  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 842925   | 253.055 | ug/l   | 99       |
| 59) 2-Hexanone                 | 11.55 | 43   | 825990   | 236.496 | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.69 | 129  | 555012   | 50.289  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 370961   | 51.425  | ug/l   | 95       |
| 64) Tetrachloroethene          | 11.27 | 164  | 486319   | 56.914  | ug/l   | 92       |
| 65) Chlorobenzene              | 12.40 | 112  | 1093094  | 52.985  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.52 | 131  | 481348   | 52.969  | ug/l   | 99       |
| 67) Ethyl Benzene              | 12.53 | 91   | 1833749  | 52.324  | ug/l   | 99       |
| 68) m/p-Xylenes                | 12.68 | 106  | 1359400  | 105.769 | ug/l   | 97       |
| 69) o-Xylene                   | 13.05 | 106  | 652145   | 55.255  | ug/l   | 97       |
| 70) Styrene                    | 13.08 | 104  | 1136366  | 54.291  | ug/l   | 98       |
| 71) Bromoform                  | 13.24 | 173  | 354701   | 53.673  | ug/l   | 96       |
| 73) Isopropylbenzene           | 13.41 | 105  | 1871563  | 48.283  | ug/l   | 99       |
| 74) N-amyl acetate             | 13.27 | 43   | 490002   | 47.818  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 348648   | 52.951  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 357255   | 48.160  | ug/l   | 97       |
| 77) Bromobenzene               | 13.67 | 156  | 547389   | 49.572  | ug/l   | 96       |
| 78) n-propylbenzene            | 13.78 | 91   | 2230409  | 48.352  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 1323625  | 49.522  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 1615455  | 48.320  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 86950    | 42.211  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 1513162  | 48.105  | ug/l   | 89       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 1824934  | 47.806  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 1647681  | 47.648  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 1916471  | 47.651  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 1830512  | 47.686  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 995948   | 50.931  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 953421   | 48.215  | ug/l   | 92       |
| 89) n-Butylbenzene             | 14.80 | 91   | 1589165  | 47.932  | ug/l   | 98       |
| 90) Hexachloroethane           | 15.01 | 117  | 457510   | 45.746  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 785860   | 46.125  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.39 | 75   | 59505    | 44.367  | ug/l   | 90       |

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Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050EC

Quant Time: Aug 09 07:00:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.95 | 180  | 599791   | 44.376 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 16.05 | 225  | 469870   | 47.971 | ug/l  | 98       |
| 95) Naphthalene            | 16.12 | 128  | 842843   | 44.119 | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 501224   | 46.941 | ug/l  | 96       |

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

