

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD011819\  
 Data File : VD060759.D  
 Acq On : 18 Jan 2019 13:20  
 Operator : VA/AP  
 Sample : VSTDICC100  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC100

Quant Time: Jan 19 02:49:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D011819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 17 12:34:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.79  | 168  | 1524354  | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 7.98  | 114  | 2346651  | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.16 | 117  | 1670599  | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.32 | 152  | 816401   | 50.00 | ug/l  | 0.01     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.22   | 65  | 1719825  | 163.26 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 326.52% |      |
| 35) Dibromofluoromethane  | 6.69   | 113 | 1698075  | 98.86  | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 197.72% |      |
| 50) Toluene-d8            | 10.19  | 98  | 4075533  | 79.53  | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 159.06% |      |
| 62) 4-Bromofluorobenzene  | 13.36  | 95  | 1823204  | 101.58 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 203.16% |      |

## Target Compounds

|                               |      |     |          |          |        | Qvalue |
|-------------------------------|------|-----|----------|----------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.59 | 85  | 1785303  | 91.660   | ug/l   | 99     |
| 3) Chloromethane              | 1.76 | 50  | 991315   | 55.302   | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.85 | 62  | 1083785  | 76.153   | ug/l   | 98     |
| 5) Bromomethane               | 2.14 | 94  | 214752   | 67.364   | ug/l   | 96     |
| 6) Chloroethane               | 2.24 | 64  | 226776   | 53.394   | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 2.48 | 101 | 1461708  | 92.340   | ug/l   | 98     |
| 8) Diethyl Ether              | 2.81 | 74  | 266421   | 100.597  | ug/l   | 86     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.06 | 101 | 868989   | 84.631   | ug/l   | 89     |
| 10) Methyl Iodide             | 3.21 | 142 | 988738   | 91.624   | ug/l # | 72     |
| 11) Tert butyl alcohol        | 3.93 | 59  | 539943   | 1226.432 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 3.04 | 96  | 591202   | 70.073   | ug/l # | 56     |
| 13) Acrolein                  | 2.96 | 56  | 213824   | 476.605  | ug/l   | 93     |
| 14) Allyl chloride            | 3.50 | 41  | 1331300  | 85.995   | ug/l # | 76     |
| 15) Acrylonitrile             | 4.05 | 53  | 1349935  | 528.152  | ug/l   | 96     |
| 16) Acetone                   | 3.13 | 43  | 1226353  | 666.612  | ug/l # | 89     |
| 17) Carbon Disulfide          | 3.28 | 76  | 2194890  | 81.460   | ug/l   | 99     |
| 18) Methyl Acetate            | 3.53 | 43  | 454003   | 99.577   | ug/l   | 96     |
| 19) Methyl tert-butyl Ether   | 4.09 | 73  | 3322913  | 155.241  | ug/l   | 96     |
| 20) Methylene Chloride        | 3.68 | 84  | 1449712  | 75.880   | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 4.06 | 96  | 1389583  | 80.424   | ug/l # | 81     |
| 22) Diisopropyl ether         | 4.89 | 45  | 4875812  | 92.761   | ug/l   | 90     |
| 23) Vinyl Acetate             | 4.84 | 43  | 12945242 | 509.051  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 4.77 | 63  | 2819765  | 101.989  | ug/l   | 96     |
| 25) 2-Butanone                | 5.84 | 43  | 2326627  | 660.906  | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 5.79 | 77  | 2685786  | 123.066  | ug/l   | 88     |
| 27) cis-1,2-Dichloroethene    | 5.80 | 96  | 1554668  | 88.637   | ug/l   | 75     |
| 28) Bromochloromethane        | 6.20 | 49  | 1097178  | 93.937   | ug/l   | 89     |
| 29) Tetrahydrofuran           | 6.23 | 42  | 1107965  | 555.178  | ug/l # | 82     |
| 30) Chloroform                | 6.42 | 83  | 3185419  | 114.501  | ug/l   | 100    |
| 31) Cyclohexane               | 6.72 | 56  | 2364959  | 88.886   | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.64 | 97  | 2844129  | 123.570  | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 6.91 | 75  | 2048745  | 84.785   | ug/l   | 96     |
| 37) Ethyl Acetate             | 5.95 | 43  | 1028505  | 101.771  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 6.87 | 117 | 2369328  | 111.142  | ug/l   | 99     |

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 ClientSampleId :  
 VSTDICC100

Quant Time: Jan 19 02:49:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D011819S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 17 12:34:41 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 8.63  | 83   | 2137424  | 77.557   | ug/l   | 89       |
| 40) Benzene                    | 7.22  | 78   | 5120816  | 82.042   | ug/l   | 100      |
| 41) Methacrylonitrile          | 6.21  | 41   | 573548m  | 102.602  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 7.35  | 62   | 2265730  | 146.276  | ug/l   | 91       |
| 43) Isopropyl Acetate          | 9.01  | 43   | 1659439  | 127.956  | ug/l   | 91       |
| 44) Trichloroethene            | 8.30  | 130  | 1650121  | 89.321   | ug/l   | 92       |
| 45) 1,2-Dichloropropane        | 8.70  | 63   | 1360873  | 88.904   | ug/l   | 100      |
| 46) Dibromomethane             | 8.83  | 93   | 950486   | 108.797  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.15  | 83   | 2480000  | 119.853  | ug/l   | 99       |
| 48) Methyl methacrylate        | 8.89  | 41   | 1048385  | 133.097  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 8.86  | 88   | 190643   | 2603.056 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 4557550  | 573.589  | ug/l   | 92       |
| 52) Toluene                    | 10.29 | 92   | 2965236  | 75.781   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.69 | 75   | 2176493  | 126.079  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.82  | 75   | 2438313  | 107.912  | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane      | 10.98 | 97   | 1046466  | 99.398   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.82 | 69   | 1276518  | 130.541  | ug/l   | 92       |
| 57) 1,3-Dichloropropane        | 11.19 | 76   | 1873143  | 112.249  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.64  | 63   | 2712220  | 470.720  | ug/l   | 96       |
| 59) 2-Hexanone                 | 11.32 | 43   | 3617708  | 650.471  | ug/l   | 92       |
| 60) Dibromochloromethane       | 11.47 | 129  | 1628342  | 121.426  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.60 | 107  | 1226456  | 112.312  | ug/l   | 100      |
| 64) Tetrachloroethene          | 11.04 | 164  | 1377933  | 91.002   | ug/l   | 93       |
| 65) Chlorobenzene              | 12.19 | 112  | 3147736  | 85.283   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.31 | 131  | 1240031  | 104.490  | ug/l   | 94       |
| 67) Ethyl Benzene              | 12.32 | 91   | 5073539  | 80.263   | ug/l   | 94       |
| 68) m/p-Xylenes                | 12.46 | 106  | 3406454  | 147.460  | ug/l   | 79       |
| 69) o-Xylene                   | 12.85 | 106  | 1763825  | 80.480   | ug/l   | 73       |
| 70) Styrene                    | 12.87 | 104  | 2886521  | 81.776   | ug/l # | 85       |
| 71) Bromoform                  | 13.04 | 173  | 1105783  | 141.157  | ug/l # | 96       |
| 73) Isopropylbenzene           | 13.20 | 105  | 5106768  | 87.856   | ug/l   | 96       |
| 74) N-amyl acetate             | 13.06 | 43   | 2061627  | 150.280  | ug/l   | 92       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.50 | 83   | 1237098  | 131.303  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 13.54 | 75   | 1405679  | 151.236  | ug/l   | 99       |
| 77) Bromobenzene               | 13.47 | 156  | 1567654  | 102.153  | ug/l   | 88       |
| 78) n-propylbenzene            | 13.58 | 91   | 6557487  | 88.244   | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 13.65 | 91   | 4069543  | 102.245  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 14.04 | 105  | 4384521  | 97.684   | ug/l   | 85       |
| 81) trans-1,4-Dichloro-2-buten | 13.27 | 75   | 406977   | 158.460  | ug/l # | 85       |
| 82) 4-Chlorotoluene            | 13.75 | 91   | 3814598  | 84.556   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.99 | 119  | 4616560  | 90.376   | ug/l   | 78       |
| 84) 1,2,4-Trimethylbenzene     | 14.04 | 105  | 4384521  | 94.845   | ug/l   | 92       |
| 85) sec-Butylbenzene           | 14.17 | 105  | 5446032  | 87.422   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 14.30 | 119  | 4409105  | 87.680   | ug/l   | 89       |
| 87) 1,3-Dichlorobenzene        | 14.26 | 146  | 2596490  | 92.168   | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene        | 14.34 | 146  | 2448246  | 88.193   | ug/l   | 96       |
| 89) n-Butylbenzene             | 14.60 | 91   | 3716117  | 72.316   | ug/l   | 97       |
| 90) Hexachloroethane           | 14.81 | 117  | 1333908  | 107.978  | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene        | 14.61 | 146  | 1767538  | 78.216   | ug/l   | 92       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.18 | 75   | 243072   | 219.604  | ug/l   | 82       |

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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC100

Quant Time: Jan 19 02:49:45 2019  
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Quant Title : SW846 8260  
QLast Update : Thu Jan 17 12:34:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.75 | 180  | 1818117  | 101.108 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 15.84 | 225  | 1219543  | 91.754  | ug/l  | 99       |
| 95) Naphthalene            | 15.93 | 128  | 3165285  | 148.104 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.08 | 180  | 1612803  | 114.734 | ug/l  | 97       |

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

