

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\  
 Data File : VD062257.D  
 Acq On : 12 May 2019 14:24  
 Operator : FY/SY  
 Sample : K2733-02MS  
 Misc : 5.96g/5mL/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P021-SS001-0002-01MS

Quant Time: May 13 01:32:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 513277   | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 755083   | 50.00 | ug/l  | 0.04     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 435330   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 111774   | 50.00 | ug/l  | 0.01     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 7.47   | 65  | 238845   | 50.07 | ug/l    | 0.04 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.14% |      |
| 35) Dibromofluoromethane  | 6.95   | 113 | 306663   | 48.95 | ug/l    | 0.05 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.90%  |      |
| 50) Toluene-d8            | 10.42  | 98  | 532890   | 35.28 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 70.56%  |      |
| 62) 4-Bromofluorobenzene  | 13.57  | 95  | 141503   | 23.33 | ug/l    | 0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 46.66%  |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85  | 298565 | 60.819  | ug/l   | 99     |
| 3) Chloromethane              | 1.75 | 50  | 196858 | 55.497  | ug/l   | 90     |
| 4) Vinyl Chloride             | 1.86 | 62  | 224952 | 64.529  | ug/l   | 98     |
| 5) Bromomethane               | 2.16 | 94  | 60648  | 74.247  | ug/l   | 95     |
| 6) Chloroethane               | 2.28 | 64  | 120510 | 82.383  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 2.55 | 101 | 453642 | 66.934  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.88 | 74  | 67670  | 51.771  | ug/l   | 81     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101 | 243725 | 47.538  | ug/l   | 96     |
| 10) Methyl Iodide             | 3.32 | 142 | 192179 | 24.802  | ug/l   | 92     |
| 11) Tert butyl alcohol        | 4.08 | 59  | 58742  | 241.260 | ug/l   | 96     |
| 12) 1,1-Dichloroethene        | 3.14 | 96  | 247444 | 63.226  | ug/l   | 96     |
| 14) Allvl chloride            | 3.63 | 41  | 274818 | 48.295  | ug/l   | 85     |
| 15) Acrylonitrile             | 4.21 | 53  | 97989  | 153.114 | ug/l   | 92     |
| 16) Acetone                   | 3.23 | 43  | 211814 | 211.749 | ug/l # | 86     |
| 17) Carbon Disulfide          | 3.39 | 76  | 534308 | 47.459  | ug/l   | 100    |
| 18) Methyl Acetate            | 3.65 | 43  | 80547  | 44.992  | ug/l   | 92     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73  | 500438 | 59.656  | ug/l   | 92     |
| 20) Methylene Chloride        | 3.83 | 84  | 275744 | 66.020  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 4.23 | 96  | 262918 | 60.372  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.14 | 45  | 807277 | 66.667  | ug/l # | 85     |
| 23) Vinyl Acetate             | 5.14 | 43  | 336526 | 52.674  | ug/l # | 77     |
| 24) 1,1-Dichloroethane        | 5.00 | 63  | 506309 | 69.310  | ug/l   | 99     |
| 25) 2-Butanone                | 6.09 | 43  | 249791 | 228.936 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 6.04 | 77  | 384154 | 52.793  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 6.05 | 96  | 303508 | 62.262  | ug/l   | 96     |
| 28) Bromochloromethane        | 6.45 | 49  | 213840 | 74.404  | ug/l   | 90     |
| 29) Tetrahydrofuran           | 6.47 | 42  | 139972 | 278.422 | ug/l   | 99     |
| 30) Chloroform                | 6.68 | 83  | 565249 | 64.205  | ug/l   | 94     |
| 31) Cyclohexane               | 6.98 | 56  | 172319 | 34.432  | ug/l   | 90     |
| 32) 1,1,1-Trichloroethane     | 6.89 | 97  | 522097 | 62.743  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.16 | 75  | 309015 | 49.914  | ug/l   | 94     |
| 37) Ethyl Acetate             | 6.09 | 43  | 250479 | 95.402  | ug/l # | 71     |
| 38) Carbon Tetrachloride      | 7.12 | 117 | 413704 | 48.280  | ug/l   | 98     |
| 39) Methylcyclohexane         | 8.87 | 83  | 115116 | 19.407  | ug/l   | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 40) Benzene                    | 7.47  | 78   | 742400   | 53.105  | ug/l   | 98       |
| 41) Methacrylonitrile          | 6.46  | 41   | 125477   | 39.108  | ug/l # | 83       |
| 42) 1,2-Dichloroethane         | 7.60  | 62   | 364017   | 61.457  | ug/l   | 93       |
| 43) Isopropyl Acetate          | 9.35  | 43   | 7899     | 2.121   | ug/l # | 43       |
| 44) Trichloroethene            | 8.56  | 130  | 250108   | 46.950  | ug/l   | 86       |
| 45) 1,2-Dichloropropane        | 8.95  | 63   | 187510   | 54.226  | ug/l   | 98       |
| 46) Dibromomethane             | 9.08  | 93   | 151999   | 54.054  | ug/l   | 90       |
| 47) Bromodichloromethane       | 9.39  | 83   | 376108   | 54.682  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.13  | 41   | 43429    | 18.935  | ug/l # | 85       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 22318    | 901.870 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.31 | 43   | 520644   | 217.521 | ug/l   | 92       |
| 52) Toluene                    | 10.52 | 92   | 406855   | 44.729  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.92 | 75   | 195349   | 32.861  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.06 | 75   | 208150   | 32.096  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane      | 11.21 | 97   | 158576   | 49.273  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 11.42 | 76   | 239472   | 49.252  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 427857   | 234.212 | ug/l   | 98       |
| 59) 2-Hexanone                 | 11.54 | 43   | 170821   | 96.831  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.70 | 129  | 229789   | 41.314  | ug/l   | 96       |
| 61) 1,2-Dibromoethane          | 11.82 | 107  | 162554   | 41.545  | ug/l   | 97       |
| 64) Tetrachloroethene          | 11.28 | 164  | 169298   | 49.733  | ug/l   | 93       |
| 65) Chlorobenzene              | 12.41 | 112  | 382834   | 47.216  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.53 | 131  | 209675   | 59.418  | ug/l   | 94       |
| 67) Ethyl Benzene              | 12.54 | 91   | 649656   | 47.859  | ug/l   | 94       |
| 68) m/p-Xylenes                | 12.68 | 106  | 423942   | 85.842  | ug/l   | 91       |
| 69) o-Xylene                   | 13.06 | 106  | 220439   | 48.011  | ug/l   | 82       |
| 70) Styrene                    | 13.09 | 104  | 257882   | 33.156  | ug/l   | 98       |
| 71) Bromoform                  | 13.24 | 173  | 120683   | 49.156  | ug/l   | 98       |
| 73) Isopropylbenzene           | 13.41 | 105  | 483198   | 72.118  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.71 | 83   | 134328   | 105.903 | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 13.75 | 75   | 123187   | 92.737  | ug/l   | 97       |
| 77) Bromobenzene               | 13.68 | 156  | 155313   | 82.807  | ug/l   | 88       |
| 78) n-propylbenzene            | 13.79 | 91   | 473615   | 59.258  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 297719   | 65.041  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 319219   | 56.579  | ug/l   | 89       |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 17231    | 45.949  | ug/l # | 79       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 324734   | 60.287  | ug/l   | 81       |
| 83) tert-Butylbenzene          | 14.20 | 119  | 378136   | 59.628  | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 14.25 | 105  | 344134   | 60.782  | ug/l   | 89       |
| 85) sec-Butylbenzene           | 14.38 | 105  | 268620   | 38.634  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 165634   | 26.663  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 156699   | 45.735  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 159845   | 47.480  | ug/l   | 99       |
| 89) n-Butylbenzene             | 14.81 | 91   | 141558   | 25.388  | ug/l   | 94       |
| 90) Hexachloroethane           | 15.02 | 117  | 60392    | 35.749  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 14.82 | 146  | 146119   | 51.783  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.39 | 75   | 18096    | 86.912  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene     | 15.95 | 180  | 36879    | 17.956  | ug/l   | 92       |
| 94) Hexachlorobutadiene        | 16.05 | 225  | 19386    | 12.691  | ug/l   | 97       |
| 95) Naphthalene                | 16.14 | 128  | 91061    | 31.757  | ug/l   | 99       |

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Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 96) 1,2,3-Trichlorobenzene | 16.28 | 180  | 26044    | 20.168 | ug/l  | 97       |

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

