

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071923\  
 Data File : VD076783.D  
 Acq On : 19 Jul 2023 11:11  
 Operator : KP/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jul 20 04:56:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|------------------------------|--------|-------|----------|----------|-------|----------|
| -----                        |        |       |          |          |       |          |
| Internal Standards           |        |       |          |          |       |          |
| 1) Pentafluorobenzene        | 7.875  | 168   | 172168   | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775  | 114   | 312580   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.581 | 117   | 282852   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516 | 152   | 136560   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds  |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.234  | 65    | 82589    | 48.161   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =     | 96.320%  |
| 35) Dibromofluoromethane     | 7.804  | 113   | 98844    | 50.321   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =     | 100.640% |
| 50) Toluene-d8               | 10.269 | 98    | 335396   | 47.730   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 134 | Recovery | =     | 95.460%  |
| 62) 4-Bromofluorobenzene     | 12.575 | 95    | 110576   | 48.643   | ug/l  | 0.00     |
| Spiked Amount                | 50.000 | Range | 30 - 143 | Recovery | =     | 97.280%  |
| Target Compounds             |        |       |          |          |       |          |
|                              |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934  | 85    | 69572    | 51.675   | ug/l  | 99       |
| 3) Chloromethane             | 2.146  | 50    | 105649   | 45.490   | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.281  | 62    | 159958   | 51.667   | ug/l  | 96       |
| 5) Bromomethane              | 2.687  | 94    | 128468   | 50.434   | ug/l  | 99       |
| 6) Chloroethane              | 2.834  | 64    | 119456   | 51.105   | ug/l  | 99       |
| 7) Trichlorofluoromethane    | 3.169  | 101   | 154524   | 56.093   | ug/l  | 95       |
| 8) Diethyl Ether             | 3.587  | 74    | 50976    | 53.746   | ug/l  | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 3.958  | 101   | 101099   | 55.831   | ug/l  | 97       |
| 10) Methyl Iodide            | 4.158  | 142   | 107555   | 52.691   | ug/l  | 91       |
| 11) Tert butyl alcohol       | 5.058  | 59    | 32074    | 250.648  | ug/l  | # 85     |
| 12) 1,1-Dichloroethene       | 3.934  | 96    | 90849    | 53.400   | ug/l  | 92       |
| 13) Acrolein                 | 3.799  | 56    | 26313    | 301.744  | ug/l  | 95       |
| 14) Allyl chloride           | 4.558  | 41    | 113341   | 50.714   | ug/l  | 92       |
| 15) Acrylonitrile            | 5.252  | 53    | 118970   | 255.391  | ug/l  | 99       |
| 16) Acetone                  | 4.022  | 43    | 110625   | 270.119  | ug/l  | # 85     |
| 17) Carbon Disulfide         | 4.263  | 76    | 199931   | 50.315   | ug/l  | 97       |
| 18) Methyl Acetate           | 4.563  | 43    | 81010    | 52.648   | ug/l  | 92       |
| 19) Methyl tert-butyl Ether  | 5.316  | 73    | 242333   | 53.116   | ug/l  | 98       |
| 20) Methylene Chloride       | 4.793  | 84    | 130022   | 54.178   | ug/l  | 99       |
| 21) trans-1,2-Dichloroethene | 5.305  | 96    | 102660   | 51.912   | ug/l  | 97       |
| 22) Diisopropyl ether        | 6.216  | 45    | 290464   | 54.885   | ug/l  | 98       |
| 23) Vinyl Acetate            | 6.152  | 43    | 699880   | 267.281  | ug/l  | 95       |
| 24) 1,1-Dichloroethane       | 6.110  | 63    | 193780   | 54.307   | ug/l  | 98       |
| 25) 2-Butanone               | 7.075  | 43    | 148466   | 270.869  | ug/l  | 90       |
| 26) 2,2-Dichloropropane      | 7.075  | 77    | 166745   | 54.211   | ug/l  | 97       |
| 27) cis-1,2-Dichloroethene   | 7.081  | 96    | 132238   | 54.243   | ug/l  | 96       |
| 28) Bromochloromethane       | 7.428  | 49    | 44006    | 49.329   | ug/l  | 83       |
| 29) Tetrahydrofuran          | 7.446  | 42    | 85473    | 263.933  | ug/l  | 91       |
| 30) Chloroform               | 7.593  | 83    | 212954   | 54.489   | ug/l  | 93       |
| 31) Cyclohexane              | 7.875  | 56    | 128781   | 51.028   | ug/l  | 98       |
| 32) 1,1,1-Trichloroethane    | 7.793  | 97    | 178464   | 56.598   | ug/l  | 96       |
| 36) 1,1-Dichloropropene      | 8.004  | 75    | 142898   | 55.672   | ug/l  | 96       |
| 37) Ethyl Acetate            | 7.163  | 43    | 62768    | 54.681   | ug/l  | 97       |
| 38) Carbon Tetrachloride     | 7.987  | 117   | 141835   | 57.710   | ug/l  | 96       |
| 39) Methylcyclohexane        | 9.275  | 83    | 162517   | 54.835   | ug/l  | 92       |
| 40) Benzene                  | 8.246  | 78    | 433819   | 53.566   | ug/l  | 99       |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Mon Jul 17 08:07:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.393  | 41   | 31612    | 45.098  | ug/l # | 89       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 114340   | 54.336  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 118679   | 52.977  | ug/l   | 93       |
| 44) Trichloroethene           | 9.028  | 130  | 115010   | 52.113  | ug/l   | 86       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 113491   | 54.287  | ug/l   | 97       |
| 46) Dibromomethane            | 9.393  | 93   | 65129    | 53.223  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.581  | 83   | 167383   | 54.507  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.381  | 41   | 51975    | 50.976  | ug/l # | 85       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 14384    | 917.450 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 322498   | 270.379 | ug/l   | 93       |
| 52) Toluene                   | 10.334 | 92   | 283236   | 53.248  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 153964   | 54.017  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 183407   | 54.598  | ug/l # | 93       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 95141    | 53.243  | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 111158   | 53.896  | ug/l # | 89       |
| 57) 1,3-Dichloropropane       | 10.875 | 76   | 152516   | 52.410  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 191812   | 240.265 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.922 | 43   | 231536   | 272.048 | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.075 | 129  | 114899   | 55.350  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 87464    | 52.795  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 87764    | 54.415  | ug/l # | 90       |
| 65) Chlorobenzene             | 11.610 | 112  | 314491   | 55.283  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 118000   | 55.714  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.681 | 91   | 552202   | 55.272  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.792 | 106  | 433457   | 112.969 | ug/l   | 93       |
| 69) o-Xylene                  | 12.122 | 106  | 203591   | 54.870  | ug/l   | 91       |
| 70) Styrene                   | 12.134 | 104  | 355920   | 54.797  | ug/l   | 98       |
| 71) Bromoform                 | 12.298 | 173  | 65435    | 56.411  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.422 | 105  | 538344   | 54.336  | ug/l   | 96       |
| 74) N-amyl acetate            | 12.234 | 43   | 112134   | 53.723  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 110174   | 51.791  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 58138m   | 44.767  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 120208   | 52.563  | ug/l   | 85       |
| 78) n-propylbenzene           | 12.763 | 91   | 660799   | 55.015  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 354682   | 53.855  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 435070   | 54.307  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 32793    | 53.741  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 376703   | 54.752  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 387599   | 54.948  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 441346   | 53.910  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 600697   | 55.738  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 491257   | 55.195  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 249667   | 53.077  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 243151   | 52.761  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.787 | 91   | 472002   | 54.194  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.051 | 117  | 94939    | 57.697  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 219413   | 52.936  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 15030    | 49.553  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 136508   | 53.946  | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 61255    | 50.333  | ug/l   | 96       |
| 95) Naphthalene               | 15.333 | 128  | 281861   | 51.444  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 121922   | 53.691  | ug/l   | 98       |

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Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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