

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD121521\  
 Data File : VD071356.D  
 Acq On : 15 Dec 2021 21:34  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Dec 16 04:33:20 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin  
 Yesilyurt  
 12/16/2021  
 Supervised By : Mahesh  
 Dadoda  
 12/21/2021

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 240241              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 402855              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 390681              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 204373              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 159699              | 56.652  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 113.300% |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 148507              | 57.890  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 115.780% |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 480236              | 49.192  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 98.380%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 190195              | 56.204  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 112.400% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 79918               | 39.009  | ug/l   | 94       |
| 3) Chloromethane             | 2.209          | 50   | 140596              | 51.874  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.350          | 62   | 166655              | 55.114  | ug/l   | 95       |
| 5) Bromomethane              | 2.768          | 94   | 114201              | 52.390  | ug/l   | 91       |
| 6) Chloroethane              | 2.921          | 64   | 123770              | 59.512  | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.274          | 101  | 201200              | 49.117  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.709          | 74   | 59570               | 53.642  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 117221              | 48.504  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.297          | 142  | 109322              | 39.924  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.209          | 59   | 61364               | 357.008 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 102170              | 45.811  | ug/l   | 82       |
| 13) Acrolein                 | 3.926          | 56   | 61556               | 319.543 | ug/l   | 94       |
| 14) Allyl chloride           | 4.709          | 41   | 216389              | 51.081  | ug/l # | 82       |
| 15) Acrylonitrile            | 5.420          | 53   | 182862              | 338.589 | ug/l   | 97       |
| 16) Acetone                  | 4.156          | 43   | 199868              | 264.916 | ug/l # | 80       |
| 17) Carbon Disulfide         | 4.409          | 76   | 269251              | 41.234  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.715          | 43   | 133909              | 64.383  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 323533              | 59.193  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.962          | 84   | 150270              | 53.084  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 123036              | 49.008  | ug/l   | 89       |
| 22) Diisopropyl ether        | 6.367          | 45   | 492056              | 57.975  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.303          | 43   | 1187883             | 257.852 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 266243              | 54.538  | ug/l   | 100      |
| 25) 2-Butanone               | 7.209          | 43   | 252809              | 287.611 | ug/l # | 88       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 198501              | 44.716  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 152528              | 53.703  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.544          | 49   | 127379              | 60.075  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.562          | 42   | 152045              | 339.673 | ug/l   | 93       |
| 30) Chloroform               | 7.709          | 83   | 281166              | 57.389  | ug/l   | 100      |
| 31) Cyclohexane              | 7.985          | 56   | 210520              | 43.904  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 232673              | 52.896  | ug/l # | 93       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 188048              | 49.944  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.285          | 43   | 104685              | 64.365  | ug/l # | 89       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 193523              | 52.141  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.350          | 83   | 203406              | 44.915  | ug/l   | 98       |
| 40) Benzene                  | 8.350          | 78   | 546306              | 53.416  | ug/l   | 96       |

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 50342    | 61.179   | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 185427   | 59.396   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 205655   | 56.685   | ug/l # | 89       |
| 44) Trichloroethene           | 9.109  | 130  | 138728   | 50.874   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 152594   | 56.735   | ug/l   | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 85514    | 61.282   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.656  | 83   | 221588   | 60.045   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.450  | 41   | 89728    | 56.361   | ug/l # | 80       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 18049    | 1339.933 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 557806   | 297.506  | ug/l   | 91       |
| 52) Toluene                   | 10.397 | 92   | 343697   | 52.965   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 195335   | 57.571   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 224927   | 55.810   | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 115670   | 63.187   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.656 | 69   | 142420   | 53.560   | ug/l # | 73       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 202499   | 62.970   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 371866   | 298.526  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 388004   | 276.515  | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.132 | 129  | 143801   | 63.206   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 106336   | 60.483   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.873 | 164  | 113342   | 45.698   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.661 | 112  | 376758   | 51.975   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 142791   | 53.950   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 684638   | 50.171   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 518276   | 100.600  | ug/l   | 96       |
| 69) o-Xylene                  | 12.173 | 106  | 247429   | 51.100   | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 431099   | 52.826   | ug/l   | 97       |
| 71) Bromoform                 | 12.350 | 173  | 82335    | 60.048   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.467 | 105  | 664674   | 44.916   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 182156   | 45.534   | ug/l   | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 138183   | 56.703   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 106736m  | 54.816   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 153517   | 47.895   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.808 | 91   | 829996   | 45.038   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 471480   | 45.583   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.950 | 105  | 551678   | 45.209   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 36330    | 44.373   | ug/l # | 74       |
| 82) 4-Chlorotoluene           | 12.997 | 91   | 491281   | 45.751   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 469407   | 44.791   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 554810   | 46.569   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 718952   | 44.916   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 591898   | 45.212   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 300218   | 47.052   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 304709   | 48.202   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 579096   | 45.313   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.097 | 117  | 118794   | 47.867   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 274391   | 50.569   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 22594    | 56.932   | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.144 | 180  | 162305   | 47.953   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 84071    | 43.900   | ug/l   | 97       |
| 95) Naphthalene               | 15.385 | 128  | 318634   | 53.403   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 142177   | 49.458   | ug/l   | 98       |

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| 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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