

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062121\  
 Data File : VD069509.D  
 Acq On : 21 Jun 2021 19:45  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/22/2021 6:12:22 PM

Quant Time: Jun 22 05:10:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 521200              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 934472              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 893798              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 423342              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 339960              | 52.328  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 104.660% |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 324086              | 51.305  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.600% |         |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 1225875             | 51.738  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 103.480% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 413995              | 53.147  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 106.300% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 233692              | 46.746  | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 378093              | 51.704  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.350          | 62   | 410206              | 50.322  | ug/l   | 100      |
| 5) Bromomethane              | 2.767          | 94   | 268028              | 55.098  | ug/l   | 98       |
| 6) Chloroethane              | 2.920          | 64   | 277563              | 51.118  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 468692              | 48.416  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.709          | 74   | 134695              | 52.600  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 281555              | 47.552  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.303          | 142  | 248444              | 45.877  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 81469               | 238.120 | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 4.061          | 96   | 264249              | 51.343  | ug/l   | 90       |
| 13) Acrolein                 | 3.920          | 56   | 97639               | 270.017 | ug/l   | 96       |
| 14) Allyl chloride           | 4.720          | 41   | 379608              | 52.611  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.426          | 53   | 285995              | 266.055 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 229704              | 210.065 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.409          | 76   | 891262              | 52.597  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.720          | 43   | 136094              | 50.142  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 553127              | 54.684  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.961          | 84   | 382721              | 55.709  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 324722              | 52.294  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.361          | 45   | 831771              | 57.208  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2349858             | 253.817 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 607993              | 52.794  | ug/l   | 98       |
| 25) 2-Butanone               | 7.214          | 43   | 349447              | 251.485 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 441830              | 46.929  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 364291              | 53.992  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.544          | 49   | 261637              | 58.006  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 209398              | 274.871 | ug/l   | 99       |
| 30) Chloroform               | 7.708          | 83   | 633510              | 52.039  | ug/l   | 98       |
| 31) Cyclohexane              | 7.985          | 56   | 413986              | 47.327  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.902          | 97   | 509339              | 50.771  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 453261              | 49.422  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 177084              | 52.032  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 436106              | 48.046  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.355          | 83   | 435309              | 48.117  | ug/l   | 96       |
| 40) Benzene                  | 8.349          | 78   | 1363184             | 51.558  | ug/l   | 98       |

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 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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 VSTDCCC050EC

Manual Integrations  
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Quant Time: Jun 22 05:10:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D062121S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 22 04:33:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 83926    | 42.375   | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 394526   | 51.360   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 313232   | 50.662   | ug/l   | 99       |
| 44) Trichloroethene           | 9.114  | 130  | 330986   | 49.610   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 356294   | 52.496   | ug/l   | 97       |
| 46) Dibromomethane            | 9.473  | 93   | 184679   | 51.955   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.661  | 83   | 489327   | 51.264   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.455  | 41   | 146827   | 49.990   | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 37753    | 1078.170 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 855078   | 262.991  | ug/l   | 100      |
| 52) Toluene                   | 10.402 | 92   | 854197   | 52.357   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 419483   | 50.829   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 501983   | 50.581   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 254527   | 50.707   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 284199   | 48.255   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 442570   | 52.183   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 810275   | 261.881  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 570503   | 260.021  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.138 | 129  | 305882   | 51.702   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 236350   | 51.067   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 269787   | 48.065   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.667 | 112  | 883170   | 49.681   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 322035   | 49.828   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.743 | 91   | 1594549  | 51.349   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.849 | 106  | 1236407  | 105.744  | ug/l   | 99       |
| 69) o-Xylene                  | 12.179 | 106  | 557330   | 53.174   | ug/l   | 99       |
| 70) Styrene                   | 12.190 | 104  | 1009693  | 54.691   | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 160314   | 48.947   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 1470042  | 50.400   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 299731   | 50.613   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 282968   | 48.300   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 210364m  | 50.621   | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 336452   | 50.797   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 1867433  | 51.010   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 1070626  | 51.190   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 1269625  | 51.724   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 76200    | 45.784   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 1159634  | 51.715   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 1046546  | 47.701   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 1290303  | 52.878   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 1537600  | 50.241   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 1336414  | 51.878   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 681018   | 50.204   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 661452   | 48.944   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.837 | 91   | 1290234  | 50.207   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.102 | 117  | 241174   | 47.893   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 591916   | 50.441   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 40779    | 45.875   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 328446   | 50.173   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 193116   | 47.017   | ug/l   | 99       |
| 95) Naphthalene               | 15.390 | 128  | 602065   | 45.944   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 291112   | 50.452   | ug/l   | 99       |

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ALS Vial : 23 Sample Multiplier: 1

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Quant Title : SW846 8260  
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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

