

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD062121\  
 Data File : VD069501.D  
 Acq On : 21 Jun 2021 15:31  
 Operator : VA/SY  
 Sample : VD0621SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0621SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/22/2021 6:12:17 PM

Quant Time: Jun 22 04:45:16 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        | 7.973  | 168   | 586975   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861  | 114   | 1008853  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638 | 117   | 946228   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567 | 152   | 432708   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332  | 65    | 360021   | 49.206   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 98.420%  |
| 35) Dibromofluoromethane     | 7.914  | 113   | 342366   | 50.203   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 100.400% |
| 50) Toluene-d8               | 10.338 | 98    | 1316133  | 51.451   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 102.900% |
| 62) 4-Bromofluorobenzene     | 12.626 | 95    | 428036   | 50.899   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 101.800% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985  | 85    | 105821   | 18.795   | ug/l   | 95       |
| 3) Chloromethane             | 2.209  | 50    | 158399   | 19.234   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.344  | 62    | 172640   | 18.805   | ug/l   | 96       |
| 5) Bromomethane              | 2.750  | 94    | 116746   | 20.037   | ug/l   | 98       |
| 6) Chloroethane              | 2.914  | 64    | 117912   | 19.282   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.267  | 101   | 212012   | 19.447   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.709  | 74    | 56985    | 19.760   | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097  | 101   | 132124   | 19.814   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.291  | 142   | 89384    | 17.337   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.214  | 59    | 46797    | 95.437   | ug/l # | 97       |
| 12) 1,1-Dichloroethene       | 4.067  | 96    | 112450   | 19.400   | ug/l   | 97       |
| 13) Acrolein                 | 3.920  | 56    | 37117    | 91.144   | ug/l   | 100      |
| 14) Allyl chloride           | 4.709  | 41    | 164080   | 20.192   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.420  | 53    | 123203   | 101.770  | ug/l   | 99       |
| 16) Acetone                  | 4.156  | 43    | 108029   | 87.722   | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.403  | 76    | 351909   | 18.440   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.720  | 43    | 73574    | 22.558   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479  | 73    | 224982   | 19.750   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.961  | 84    | 188902   | 20.308   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.473  | 96    | 134901   | 19.290   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.367  | 45    | 341465   | 20.854   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.303  | 43    | 843582   | 93.859   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.267  | 63    | 255262   | 19.681   | ug/l   | 98       |
| 25) 2-Butanone               | 7.214  | 43    | 144990   | 92.652   | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.208  | 77    | 203566   | 19.199   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.208  | 96    | 153022   | 20.138   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.550  | 49    | 96619    | 19.020   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.561  | 42    | 82400    | 96.044   | ug/l   | 99       |
| 30) Chloroform               | 7.708  | 83    | 275247   | 20.076   | ug/l   | 99       |
| 31) Cyclohexane              | 7.979  | 56    | 187333   | 19.016   | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.902  | 97    | 224890   | 19.905   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108  | 75    | 194115   | 19.605   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291  | 43    | 75925    | 20.664   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 8.097  | 117   | 191233   | 19.515   | ug/l # | 93       |
| 39) Methylcyclohexane        | 9.355  | 83    | 185558   | 18.998   | ug/l   | 99       |
| 40) Benzene                  | 8.344  | 78    | 565763   | 19.821   | ug/l   | 96       |

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 ALS Vial : 14 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
 VD0621SBSD01

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Quant Time: Jun 22 04:45:16 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         | 7.514  | 41   | 39398m   | 18.426  | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 161624   | 19.489  | ug/l  | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 129638   | 19.422  | ug/l  | 100      |
| 44) Trichloroethene           | 9.108  | 130  | 141716   | 19.675  | ug/l  | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 146328   | 19.970  | ug/l  | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 76740    | 19.997  | ug/l  | 96       |
| 47) Bromodichloromethane      | 9.661  | 83   | 203911   | 19.788  | ug/l  | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 57506    | 18.135  | ug/l  | 94       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 14528    | 384.309 | ug/l  | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 346742   | 98.783  | ug/l  | 98       |
| 52) Toluene                   | 10.396 | 92   | 351989   | 19.984  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 173813   | 19.508  | ug/l  | 97       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 211002   | 19.693  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 105728   | 19.510  | ug/l  | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 105585   | 18.299  | ug/l  | 95       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 181947   | 19.871  | ug/l  | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 278634   | 90.639  | ug/l  | 98       |
| 59) 2-Hexanone                | 10.985 | 43   | 228223   | 96.349  | ug/l  | 98       |
| 60) Dibromochloromethane      | 11.138 | 129  | 128028   | 20.045  | ug/l  | 99       |
| 61) 1,2-Dibromoethane         | 11.243 | 107  | 97899    | 19.593  | ug/l  | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 118004   | 19.859  | ug/l  | 98       |
| 65) Chlorobenzene             | 11.667 | 112  | 368635   | 19.588  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 135937   | 19.868  | ug/l  | 98       |
| 67) Ethyl Benzene             | 11.743 | 91   | 643889   | 19.586  | ug/l  | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 498139   | 40.243  | ug/l  | 99       |
| 69) o-Xylene                  | 12.179 | 106  | 216233   | 19.488  | ug/l  | 97       |
| 70) Styrene                   | 12.190 | 104  | 384931   | 19.695  | ug/l  | 99       |
| 71) Bromoform                 | 12.349 | 173  | 65066    | 18.765  | ug/l  | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 610521   | 20.478  | ug/l  | 99       |
| 74) N-amyl acetate            | 12.285 | 43   | 116981   | 19.326  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 121015   | 20.209  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 86042m   | 20.257  | ug/l  |          |
| 77) Bromobenzene              | 12.755 | 156  | 139937   | 20.670  | ug/l  | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 767789   | 20.518  | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 441541   | 20.655  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 521868   | 20.800  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 34234    | 20.124  | ug/l  | 97       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 475865   | 20.762  | ug/l  | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 404440   | 19.274  | ug/l  | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 516662   | 20.715  | ug/l  | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 637035   | 20.365  | ug/l  | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 537286   | 20.405  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 279375   | 20.149  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 274581   | 19.878  | ug/l  | 97       |
| 89) n-Butylbenzene            | 13.832 | 91   | 519126   | 19.764  | ug/l  | 100      |
| 90) Hexachloroethane          | 14.102 | 117  | 102383   | 19.892  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 244582   | 20.391  | ug/l  | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 17430    | 19.184  | ug/l  | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 136088   | 20.339  | ug/l  | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 84154    | 20.045  | ug/l  | 96       |
| 95) Naphthalene               | 15.390 | 128  | 228607   | 19.176  | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 118580   | 20.106  | 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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