

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071321\  
 Data File : VD069671.D  
 Acq On : 13 Jul 2021 15:41  
 Operator : VA/SY  
 Sample : VD0713SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0713SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 7/15/2021 5:31:25 PM

Quant Time: Jul 14 06:06:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071321S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 14 06:00:31 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.973  | 168   | 674067   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861  | 114   | 1231462  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638 | 117   | 1122325  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567 | 152   | 506420   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332  | 65    | 405343   | 48.160   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 96.320%  |
| 35) Dibromofluoromethane     | 7.914  | 113   | 394866   | 47.795   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 95.600%  |
| 50) Toluene-d8               | 10.338 | 98    | 1596839  | 49.751   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 49 - 140 | Recovery | =      | 99.500%  |
| 62) 4-Bromofluorobenzene     | 12.626 | 95    | 530012   | 49.513   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 25 - 144 | Recovery | =      | 99.020%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985  | 85    | 93446    | 13.896   | ug/l   | 99       |
| 3) Chloromethane             | 2.209  | 50    | 135670   | 14.052   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.344  | 62    | 158322   | 15.441   | ug/l   | 99       |
| 5) Bromomethane              | 2.750  | 94    | 117597   | 17.442   | ug/l   | 99       |
| 6) Chloroethane              | 2.909  | 64    | 106326   | 16.207   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.268  | 101   | 212784   | 16.456   | ug/l   | 94       |
| 8) Diethyl Ether             | 3.709  | 74    | 60068    | 15.922   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.085  | 101   | 134187   | 16.734   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297  | 142   | 91853    | 12.880   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.185  | 59    | 157224   | 139.814  | ug/l # | 82       |
| 12) 1,1-Dichloroethene       | 4.067  | 96    | 122253   | 16.630   | ug/l   | 96       |
| 13) Acrolein                 | 3.920  | 56    | 60160    | 103.678  | ug/l   | 96       |
| 14) Allyl chloride           | 4.714  | 41    | 190909   | 16.808   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.414  | 53    | 140845   | 82.331   | ug/l   | 99       |
| 16) Acetone                  | 4.150  | 43    | 152793   | 93.894   | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.403  | 76    | 346756   | 13.686   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.714  | 43    | 106778   | 22.752   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479  | 73    | 243456   | 15.644   | ug/l   | 99       |
| 20) Methylene Chloride       | 4.956  | 84    | 296836   | 21.825   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.462  | 96    | 140468   | 16.001   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.356  | 45    | 380769   | 16.175   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.303  | 43    | 878996   | 77.730   | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.256  | 63    | 279502   | 17.015   | ug/l   | 99       |
| 25) 2-Butanone               | 7.208  | 43    | 182869   | 91.929   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.203  | 77    | 239889   | 18.304   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.203  | 96    | 159189   | 16.810   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.544  | 49    | 108772   | 17.158   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.561  | 42    | 97837    | 79.383   | ug/l   | 98       |
| 30) Chloroform               | 7.708  | 83    | 279242   | 17.089   | ug/l   | 97       |
| 31) Cyclohexane              | 7.985  | 56    | 211706   | 15.074   | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.903  | 97    | 235528   | 16.999   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108  | 75    | 204340   | 16.084   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.285  | 43    | 81578    | 16.975   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.091  | 117   | 198060   | 17.025   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.350  | 83    | 200824   | 14.673   | ug/l   | 97       |
| 40) Benzene                  | 8.350  | 78    | 602779   | 16.450   | ug/l   | 100      |

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 Sample : VD0713SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0713SBS01

Manual Integrations  
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MMDadoda  
 7/15/2021 5:31:25 PM

Quant Time: Jul 14 06:06:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071321S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 14 06:00:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 46856    | 18.813  | ug/l   | 91       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 161535   | 16.241  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 154541   | 17.561  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 145704   | 16.398  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 159773   | 16.589  | ug/l   | 95       |
| 46) Dibromomethane            | 9.467  | 93   | 78773    | 16.758  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 211495   | 16.977  | ug/l # | 95       |
| 48) Methyl methacrylate       | 9.455  | 41   | 66126    | 15.259  | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 15879    | 319.233 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 403311   | 88.497  | ug/l   | 99       |
| 52) Toluene                   | 10.397 | 92   | 377110   | 17.110  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 188724   | 18.021  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 222645   | 17.313  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 112436   | 17.100  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 122595   | 15.772  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 196356   | 16.915  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 330646   | 94.369  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 278954   | 91.833  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.132 | 129  | 129202   | 16.843  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 102067   | 16.731  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 121705   | 17.758  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 392649   | 17.513  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 137702   | 17.194  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 692075   | 17.431  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 530395   | 35.328  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 229359   | 16.777  | ug/l   | 98       |
| 70) Styrene                   | 12.191 | 104  | 416406   | 17.454  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 69536    | 17.908  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 644810   | 17.882  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 141402   | 18.046  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 131815   | 18.352  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 91713m   | 18.642  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 139891   | 17.486  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.814 | 91   | 837782   | 18.323  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 470827   | 17.516  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 552668   | 18.070  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 35051    | 19.147  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 506783   | 17.967  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 447150   | 17.933  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 549121   | 18.096  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.390 | 105  | 699457   | 17.849  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 589402   | 18.467  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 293911   | 17.690  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 292370   | 17.621  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.832 | 91   | 574878   | 18.180  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 108470   | 16.701  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 253043   | 17.663  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 18578    | 17.366  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 139897   | 17.565  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 84177    | 17.530  | ug/l   | 98       |
| 95) Naphthalene               | 15.384 | 128  | 243205   | 16.717  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 119667   | 17.492  | ug/l   | 97       |

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Manual Integrations  
APPROVED

MMDadoda  
7/15/2021 5:31:25 PM

Quant Time: Jul 14 06:06:39 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071321S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 14 06:00:31 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

