

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081721\  
 Data File : VD070080.D  
 Acq On : 17 Aug 2021 11:22  
 Operator : VA/SY  
 Sample : VD0817SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0817SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 8/18/2021 6:59:04 PM

Quant Time: Aug 18 03:05:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081321S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 537383     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 958815     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 905078     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 438335     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 314423     | 49.747   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.500%  |        |          |
| 35) Dibromofluoromethane     | 7.909          | 113  | 307176     | 49.588   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.180%  |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 1245070    | 51.677   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 103.360% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 404644     | 50.990   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 101.980% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 135316     | 22.775   | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 173459     | 20.697   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.344          | 62   | 185130     | 20.356   | ug/l   | 100      |
| 5) Bromomethane              | 2.750          | 94   | 119231     | 21.453   | ug/l   | 98       |
| 6) Chloroethane              | 2.909          | 64   | 116702     | 20.086   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 223667     | 20.476   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.703          | 74   | 60216      | 19.263   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 140471     | 20.214   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 105202     | 16.557   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.232          | 59   | 33168      | 94.942   | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 124862     | 19.558   | ug/l   | 97       |
| 13) Acrolein                 | 3.926          | 56   | 33509      | 83.272   | ug/l   | 96       |
| 14) Allyl chloride           | 4.715          | 41   | 177640     | 18.648   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.420          | 53   | 141003     | 97.276   | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 115602     | 99.286   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.403          | 76   | 458719     | 19.873   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.720          | 43   | 70299      | 20.251   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 253708     | 19.148   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.962          | 84   | 196286     | 19.815   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 147416     | 19.878   | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.356          | 45   | 400294     | 19.980   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.303          | 43   | 841912     | 92.723   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 267607     | 19.522   | ug/l   | 100      |
| 25) 2-Butanone               | 7.214          | 43   | 153572     | 96.526   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 212191     | 19.881   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 155378     | 19.729   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.544          | 49   | 104488     | 20.947   | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 99954      | 95.945   | ug/l   | 98       |
| 30) Chloroform               | 7.709          | 83   | 270768     | 20.085   | ug/l   | 98       |
| 31) Cyclohexane              | 7.979          | 56   | 242589     | 19.391   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 225864     | 20.049   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 207258     | 20.093   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.297          | 43   | 75690      | 20.202   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 188494     | 20.129   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.355          | 83   | 228567     | 19.032   | ug/l   | 98       |
| 40) Benzene                  | 8.350          | 78   | 600149     | 20.060   | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Sat Aug 14 02:33:51 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 43982    | 21.713  | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 160034   | 20.872  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 134900   | 19.286  | ug/l   | 97       |
| 44) Trichloroethene           | 9.108  | 130  | 144215   | 19.954  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 157535   | 20.272  | ug/l   | 95       |
| 46) Dibromomethane            | 9.467  | 93   | 78172    | 20.710  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.655  | 83   | 198575   | 20.334  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.455  | 41   | 63423    | 19.014  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 16378    | 398.712 | ug/l # | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 361927   | 99.513  | ug/l   | 96       |
| 52) Toluene                   | 10.397 | 92   | 370404   | 20.341  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 173440   | 20.051  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 208304   | 19.840  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 109161   | 20.412  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 115352   | 18.954  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 186472   | 20.141  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 311437   | 97.023  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 247224   | 101.500 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.132 | 129  | 125668   | 20.512  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 100194   | 20.694  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.867 | 164  | 119397   | 20.449  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 377432   | 19.959  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 138387   | 20.607  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 657517   | 19.666  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.849 | 106  | 523267   | 40.384  | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 225407   | 19.280  | ug/l   | 98       |
| 70) Styrene                   | 12.191 | 104  | 410072   | 20.027  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 69093    | 21.117  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 600891   | 18.799  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 127664   | 18.524  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 127041   | 19.919  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 85607m   | 19.258  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 138353   | 19.501  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 820374   | 19.901  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 459226   | 19.363  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 528206   | 19.410  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 30944    | 18.068  | ug/l   | 89       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 490054   | 19.733  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 417032   | 18.854  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 534359   | 19.795  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 692241   | 19.534  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 553413   | 19.330  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 296589   | 19.675  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 290282   | 19.442  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.832 | 91   | 538851   | 19.180  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.102 | 117  | 117992   | 19.530  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 255688   | 19.795  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 18893    | 19.832  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 136558   | 19.011  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 78944    | 18.605  | ug/l   | 94       |
| 95) Naphthalene               | 15.385 | 128  | 226529   | 17.328  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 118797   | 18.946  | ug/l   | 98       |

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ALS Vial : 4 Sample Multiplier: 1

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8/18/2021 6:59:04 PM

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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

