

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092721\  
 Data File : VD070470.D  
 Acq On : 27 Sep 2021 11:45  
 Operator : VA/SY  
 Sample : VD0927SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0927SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 9/28/2021 7:06:41 PM

Quant Time: Sep 28 04:10:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 336904     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 606788     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 573176     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 279462     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 203102     | 46.950   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 93.900%  |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 208850     | 48.354   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.700%  |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 802149     | 51.151   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 102.300% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 268216     | 48.939   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 97.880%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 76054      | 19.899   | ug/l   | 99       |
| 3) Chloromethane             | 2.209          | 50   | 91796      | 17.512   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 104760     | 19.763   | ug/l   | 97       |
| 5) Bromomethane              | 2.756          | 94   | 71743      | 19.069   | ug/l   | 97       |
| 6) Chloroethane              | 2.915          | 64   | 69667      | 19.511   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 141945     | 20.246   | ug/l   | 92       |
| 8) Diethyl Ether             | 3.709          | 74   | 35873      | 18.509   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 88591      | 20.342   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.297          | 142  | 65397      | 16.392   | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 19439      | 39.743   | ug/l # | 100      |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 74291      | 18.941   | ug/l   | 95       |
| 13) Acrolein                 | 3.915          | 56   | 12980      | 60.358   | ug/l   | 90       |
| 14) Allyl chloride           | 4.715          | 41   | 100654     | 17.463   | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 82523      | 89.363   | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 63621      | 82.375   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.409          | 76   | 262099     | 18.111   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.715          | 43   | 40939      | 18.356   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 150287     | 17.730   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.962          | 84   | 111112     | 18.513   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 86371      | 18.499   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.356          | 45   | 229727     | 18.622   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.309          | 43   | 489195     | 85.598   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 164398     | 18.834   | ug/l   | 99       |
| 25) 2-Butanone               | 7.209          | 43   | 88514      | 86.095   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 135629     | 19.223   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 93754      | 18.693   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.544          | 49   | 65005      | 18.770   | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 56983      | 86.342   | ug/l   | 95       |
| 30) Chloroform               | 7.708          | 83   | 170314     | 19.032   | ug/l   | 95       |
| 31) Cyclohexane              | 7.985          | 56   | 138158     | 18.540   | ug/l # | 95       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 146487     | 19.449   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 128503     | 19.813   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.291          | 43   | 43327      | 17.865   | ug/l # | 78       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 129393     | 20.172   | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.350          | 83   | 134208     | 18.523   | ug/l   | 94       |
| 40) Benzene                  | 8.350          | 78   | 371579     | 19.550   | ug/l   | 100      |

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 ALS Vial : 4 Sample Multiplier: 1

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Manual Integrations  
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MMDadoda  
 9/28/2021 7:06:41 PM

Quant Time: Sep 28 04:10:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 20408    | 15.993  | ug/l # | 94       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 97099    | 19.074  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 76953    | 17.161  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 90441    | 19.910  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 96738    | 19.400  | ug/l   | 97       |
| 46) Dibromomethane            | 9.473  | 93   | 48332    | 18.822  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.661  | 83   | 128732   | 19.651  | ug/l   | 92       |
| 48) Methyl methacrylate       | 9.450  | 41   | 32632    | 15.761  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 9645     | 375.009 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 206108   | 88.822  | ug/l   | 97       |
| 52) Toluene                   | 10.397 | 92   | 232885   | 20.279  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 111883   | 19.854  | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 134007   | 19.540  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 68834    | 19.486  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 68838    | 17.851  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 113211   | 18.825  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 185345   | 99.720  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 137292   | 88.679  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.132 | 129  | 80862    | 19.669  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 62401    | 19.208  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.867 | 164  | 73304    | 21.006  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.661 | 112  | 242222   | 20.399  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 88063    | 20.250  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 400132   | 19.539  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 326942   | 41.338  | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 141574   | 19.981  | ug/l   | 98       |
| 70) Styrene                   | 12.185 | 104  | 257292   | 20.787  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 42432    | 19.741  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.473 | 105  | 377861   | 19.280  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 72033    | 16.869  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 76555    | 18.238  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 49575m   | 17.538  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 87084    | 19.260  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 497929   | 19.575  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 284942   | 19.218  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 332251   | 19.643  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 21311    | 18.889  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 307186   | 19.639  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 263470   | 19.422  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 335984   | 20.172  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.391 | 105  | 423474   | 19.639  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 340264   | 19.640  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 183714   | 19.515  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 182981   | 19.365  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.832 | 91   | 323729   | 18.741  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.102 | 117  | 75626    | 19.069  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 157064   | 18.910  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 11406    | 18.144  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 81954    | 18.272  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 51727    | 18.802  | ug/l   | 99       |
| 95) Naphthalene               | 15.385 | 128  | 140268   | 17.208  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 74158    | 18.739  | ug/l   | 96       |

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 ALS Vial : 4 Sample Multiplier: 1

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 9/28/2021 7:06:41 PM

Quant Time: Sep 28 04:10:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D090821S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 09 03:07:09 2021  
 Response via : Initial Calibration

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

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

