

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071421\  
 Data File : VD069700.D  
 Acq On : 14 Jul 2021 21:00  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 7/15/2021 5:51:17 PM

Quant Time: Jul 15 03:33:42 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  | 536576              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 1056597             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 1039821             | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 498527              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 384524              | 57.393  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 114.780% |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 362519              | 51.142  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.280% |         |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 1445639             | 52.495  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 104.980% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 500327              | 54.475  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 108.960% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 303314              | 54.773  | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 444256              | 58.720  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.344          | 62   | 454122              | 55.638  | ug/l   | 100      |
| 5) Bromomethane              | 2.756          | 94   | 283125              | 56.357  | ug/l   | 99       |
| 6) Chloroethane              | 2.915          | 64   | 296231              | 56.723  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 537894              | 52.257  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.703          | 74   | 174967              | 58.262  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 339252              | 53.148  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 334673              | 50.125  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.220          | 59   | 136949              | 152.989 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 325820              | 55.679  | ug/l   | 94       |
| 13) Acrolein                 | 3.920          | 56   | 110716              | 239.697 | ug/l   | 97       |
| 14) Allyl chloride           | 4.709          | 41   | 502462              | 55.572  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.420          | 53   | 401407              | 294.766 | ug/l   | 99       |
| 16) Acetone                  | 4.150          | 43   | 282724              | 213.683 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.403          | 76   | 1167509             | 56.482  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.715          | 43   | 175825              | 54.588  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 765361              | 61.784  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.962          | 84   | 535059              | 60.141  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 391349              | 56.002  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.361          | 45   | 1208003             | 64.466  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2989779             | 281.650 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 756100              | 57.821  | ug/l   | 99       |
| 25) 2-Butanone               | 7.214          | 43   | 454657              | 287.123 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 508791              | 48.768  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 445560              | 59.106  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.550          | 49   | 305025              | 60.443  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 287922              | 293.475 | ug/l   | 99       |
| 30) Chloroform               | 7.708          | 83   | 703666              | 54.097  | ug/l   | 100      |
| 31) Cyclohexane              | 7.985          | 56   | 571878              | 50.185  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 557941              | 50.586  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 517394              | 47.466  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 218878              | 53.083  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 460329              | 46.118  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.350          | 83   | 579858              | 44.747  | ug/l   | 97       |
| 40) Benzene                  | 8.350          | 78   | 1698162             | 54.013  | ug/l   | 98       |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

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Quant Time: Jul 15 03:33:42 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   | 112295   | 52.550  | ug/l   | 95       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 448233   | 52.525  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 401140   | 53.125  | ug/l   | 99       |
| 44) Trichloroethene           | 9.108  | 130  | 372295   | 48.833  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 417094   | 50.474  | ug/l   | 99       |
| 46) Dibromomethane            | 9.473  | 93   | 214917   | 53.288  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.655  | 83   | 544678   | 50.957  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 192109   | 49.035  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 48604    | 934.341 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 1097597  | 280.700 | ug/l   | 100      |
| 52) Toluene                   | 10.397 | 92   | 1047641  | 55.400  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 457110   | 50.872  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 550772   | 49.915  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 281711   | 49.934  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 367888   | 51.004  | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 522450   | 52.453  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 928309   | 287.526 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 693342   | 266.027 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.138 | 129  | 357216   | 54.275  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 282442   | 53.959  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.873 | 164  | 314102   | 49.466  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.661 | 112  | 1070949  | 51.557  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 381008   | 51.348  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1950225  | 53.018  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 1505233  | 108.215 | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 694606   | 54.840  | ug/l   | 98       |
| 70) Styrene                   | 12.191 | 104  | 1237698  | 55.996  | ug/l   | 100      |
| 71) Bromoform                 | 12.355 | 173  | 192121   | 53.403  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.473 | 105  | 1789462  | 50.411  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 390000   | 50.560  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 351969   | 49.780  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 241643m  | 49.895  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 397306   | 50.449  | ug/l   | 99       |
| 78) n-propylbenzene           | 12.814 | 91   | 2308027  | 51.279  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 1338710  | 50.593  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1563692  | 51.937  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 86803    | 48.168  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 1401735  | 50.482  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 1237730  | 50.425  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 1564892  | 52.387  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1929876  | 50.028  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 1604088  | 51.054  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 825234   | 50.456  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 807726   | 49.452  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.832 | 91   | 1544931  | 49.631  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 312514   | 48.879  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 719215   | 50.999  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 50107    | 47.580  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 404620   | 51.608  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 225672   | 47.741  | ug/l   | 99       |
| 95) Naphthalene               | 15.385 | 128  | 754487   | 47.936  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 351681   | 52.220  | ug/l   | 99       |

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Sample : VSTDCCC050  
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ALS Vial : 18 Sample Multiplier: 1

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Quant Time: Jul 15 03:33:42 2021  
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Quant Title : SW846 8260  
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Response via : Initial Calibration

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

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

