

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060221\  
 Data File : VD069295.D  
 Acq On : 02 Jun 2021 12:15  
 Operator : VA/SY  
 Sample : VD0602SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0602SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/3/2021 5:39:59 PM

Quant Time: Jun 03 01:06:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 02 02:17:36 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 431423     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 689261     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.643         | 117  | 652292     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 322925     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 184000     | 44.449  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 88.900% |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 199503     | 46.092  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 92.180% |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 728267     | 46.270  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 92.540% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 244379     | 47.384  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 94.760% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 84287      | 18.560  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 67395      | 19.658  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.350          | 62   | 70350      | 20.143  | ug/l   | 91       |
| 5) Bromomethane              | 2.762          | 94   | 52945      | 20.779  | ug/l   | 95       |
| 6) Chloroethane              | 2.920          | 64   | 40619      | 20.381  | ug/l   | 89       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 160562     | 19.765  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.709          | 74   | 38512      | 19.296  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 94024      | 19.655  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.303          | 142  | 72846      | 16.675  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 5.203          | 59   | 37239      | 134.658 | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 83297      | 19.250  | ug/l   | 94       |
| 13) Acrolein                 | 3.920          | 56   | 20229      | 85.323  | ug/l   | 100      |
| 14) Allyl chloride           | 4.720          | 41   | 95895      | 18.368  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.414          | 53   | 72859      | 93.644  | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 70527      | 97.630  | ug/l # | 85       |
| 17) Carbon Disulfide         | 4.409          | 76   | 266014     | 18.591  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.714          | 43   | 36584      | 18.714  | ug/l # | 72       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 146329     | 18.413  | ug/l # | 91       |
| 20) Methylene Chloride       | 4.967          | 84   | 127177     | 20.003  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 98012      | 19.125  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.361          | 45   | 194273     | 19.374  | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.303          | 43   | 525080     | 89.758  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 161055     | 19.194  | ug/l   | 98       |
| 25) 2-Butanone               | 7.208          | 43   | 90293      | 94.988  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 146541     | 18.952  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 103385     | 19.046  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.544          | 49   | 60674      | 20.855  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 49528      | 90.651  | ug/l   | 100      |
| 30) Chloroform               | 7.708          | 83   | 177574     | 19.358  | ug/l   | 98       |
| 31) Cyclohexane              | 7.985          | 56   | 118672     | 18.042  | ug/l # | 93       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 157274     | 18.998  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 132899     | 19.837  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.297          | 43   | 43678      | 19.201  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 143486     | 19.836  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.355          | 83   | 132684     | 19.360  | ug/l   | 96       |
| 40) Benzene                  | 8.350          | 78   | 378394     | 19.447  | ug/l   | 99       |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0602SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/3/2021 5:39:59 PM

Quant Time: Jun 03 01:06:47 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 02 02:17:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 23210    | 21.015  | ug/l   | 87       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 102262   | 19.694  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 78332    | 18.920  | ug/l   | 100      |
| 44) Trichloroethene           | 9.114  | 130  | 104353   | 19.739  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 92879    | 20.048  | ug/l   | 99       |
| 46) Dibromomethane            | 9.473  | 93   | 51395    | 19.410  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.661  | 83   | 135274   | 19.812  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.461  | 41   | 34045    | 17.712  | ug/l   | 84       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 9422     | 362.236 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 208326   | 97.424  | ug/l   | 98       |
| 52) Toluene                   | 10.402 | 92   | 243708   | 19.843  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 118050   | 19.359  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 141469   | 19.458  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 73694    | 20.063  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 69798    | 18.421  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 121265   | 20.362  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 188398   | 109.542 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.985 | 43   | 141406   | 98.926  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.138 | 129  | 90923    | 19.646  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 70329    | 20.073  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 87766    | 19.330  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.667 | 112  | 265170   | 19.893  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 96291    | 19.280  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.743 | 91   | 444750   | 19.420  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.855 | 106  | 354679   | 39.524  | ug/l   | 99       |
| 69) o-Xylene                  | 12.179 | 106  | 156436   | 19.710  | ug/l   | 98       |
| 70) Styrene                   | 12.191 | 104  | 272618   | 19.787  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 52498    | 20.266  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.473 | 105  | 419815   | 18.996  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 70553    | 18.077  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 79657    | 19.307  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 49199m   | 17.536  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 104308   | 19.598  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.814 | 91   | 527213   | 19.451  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 298998   | 19.406  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 365037   | 19.503  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 24426    | 19.292  | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 319455   | 19.708  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.220 | 119  | 299590   | 19.113  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 369353   | 19.842  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 451920   | 19.533  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 390867   | 19.321  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 212596   | 19.738  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 208768   | 19.447  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.837 | 91   | 358488   | 18.940  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 73684    | 19.174  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 178833   | 19.268  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 12240    | 18.624  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 106641   | 19.150  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 66491    | 19.018  | ug/l   | 99       |
| 95) Naphthalene               | 15.390 | 128  | 171973   | 17.877  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 91189    | 18.605  | ug/l   | 99       |

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Sample : VD0602SBS01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0602SBS01

Manual Integrations  
APPROVED

MMDadoda  
6/3/2021 5:39:59 PM

Quant Time: Jun 03 01:06:47 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060121S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 02 02:17:36 2021  
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

