

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052121\  
 Data File : VD069247.D  
 Acq On : 21 May 2021 19:23  
 Operator : VA/SY  
 Sample : M2472-13MSD  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW8-GW-938-940MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/24/2021 3:44:04 PM

Quant Time: May 22 00:36:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 132687             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 218677             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 192451             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 62610              | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 96181              | 72.31  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 144.62% |        |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 92230              | 64.81  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 129.62% |        |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 275608             | 52.71  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 105.42% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 74318              | 44.17  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 88.34%  |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 73531              | 52.12  | ug/l   | 88       |
| 3) Chloromethane             | 2.209          | 50   | 104583             | 64.50  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.344          | 62   | 138452             | 64.79  | ug/l   | 92       |
| 5) Bromomethane              | 2.756          | 94   | 86348              | 53.71  | ug/l   | 91       |
| 6) Chloroethane              | 2.909          | 64   | 91871              | 66.83  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.262          | 101  | 143533             | 55.05  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.703          | 74   | 45421              | 76.31  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 78977              | 53.45  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.297          | 142  | 67078              | 43.74  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.238          | 59   | 35099              | 554.52 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 73757              | 55.56  | ug/l   | 88       |
| 13) Acrolein                 | 3.926          | 56   | 43224              | 399.38 | ug/l   | 98       |
| 14) Allyl chloride           | 4.703          | 41   | 85502              | 58.71  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.415          | 53   | 104023             | 468.27 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 88995              | 436.84 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.403          | 76   | 221103             | 50.24  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.726          | 43   | 50704              | 102.43 | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 190884             | 79.24  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.956          | 84   | 116820             | 75.02  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.462          | 96   | 85921              | 54.59  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.367          | 45   | 203090             | 69.82  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.309          | 43   | 715325             | 416.75 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.256          | 63   | 152464             | 60.68  | ug/l   | 99       |
| 25) 2-Butanone               | 7.215          | 43   | 135226             | 489.84 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 123624             | 52.61  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 100117             | 58.58  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.544          | 49   | 69868              | 78.00  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.562          | 42   | 75907              | 505.82 | ug/l   | 97       |
| 30) Chloroform               | 7.709          | 83   | 174298             | 61.62  | ug/l   | 96       |
| 31) Cyclohexane              | 7.979          | 56   | 85220              | 43.23  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 145176             | 56.56  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.109          | 75   | 108403             | 50.99  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.291          | 43   | 60375              | 88.39  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 122600             | 51.59  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.356          | 83   | 71473              | 31.87  | ug/l   | 95       |
| 40) Benzene                  | 8.350          | 78   | 351587             | 57.73  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052121\  
 Data File : VD069247.D  
 Acq On : 21 May 2021 19:23  
 Operator : VA/SY  
 Sample : M2472-13MSD  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW8-GW-938-940MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/24/2021 3:44:04 PM

Quant Time: May 22 00:36:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 32718    | 89.99   | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 120590   | 72.52   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.456  | 43   | 108874   | 87.77   | ug/l   | 99       |
| 44) Trichloroethene           | 9.114  | 130  | 86019    | 50.54   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 90141    | 62.71   | ug/l   | 93       |
| 46) Dibromomethane            | 9.473  | 93   | 63373    | 73.75   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.661  | 83   | 140751   | 64.37   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.456  | 41   | 50028    | 87.22   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 16975    | 2041.14 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 304791   | 477.59  | ug/l   | 100      |
| 52) Toluene                   | 10.403 | 92   | 205853   | 52.38   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 120991   | 62.97   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 134978   | 58.77   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 85203    | 73.57   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 90358    | 70.95   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 135085   | 72.17   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 62302    | 108.67  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.979 | 43   | 205349   | 482.20  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.138 | 129  | 101934   | 68.53   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 80377    | 70.22   | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.873 | 164  | 59374    | 44.39   | ug/l   | 92       |
| 65) Chlorobenzene             | 11.667 | 112  | 200113   | 50.17   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 92861    | 61.74   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.744 | 91   | 326174   | 47.52   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.850 | 106  | 252944   | 94.03   | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 120907   | 50.54   | ug/l   | 97       |
| 70) Styrene                   | 12.191 | 104  | 156540   | 37.48   | ug/l   | 98       |
| 71) Bromoform                 | 12.355 | 173  | 58905    | 75.29   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 274910   | 62.82   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.285 | 43   | 83676    | 116.92  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 101445   | 127.93  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 69845m   | 148.40  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 74219    | 71.47   | ug/l   | 83       |
| 78) n-propylbenzene           | 12.814 | 91   | 301368   | 57.08   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 174223   | 59.31   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 201304   | 55.79   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 27793    | 119.28  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.997 | 91   | 180284   | 57.60   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 182845   | 60.81   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 206213   | 56.81   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 209046   | 46.24   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 180234   | 45.37   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 103486   | 49.24   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 103490   | 49.72   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.838 | 91   | 138157   | 37.33   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 41754    | 56.09   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 96790    | 53.63   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 14806    | 120.29  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 23323    | 21.09   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 14530    | 21.89   | ug/l   | 97       |
| 95) Naphthalene               | 15.391 | 128  | 70384    | 34.99   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 20225    | 21.37   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052121\  
Data File : VD069247.D  
Acq On : 21 May 2021 19:23  
Operator : VA/SY  
Sample : M2472-13MSD  
Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
BP-VPB-RW8-GW-938-940MSD

Manual Integrations  
APPROVED

MMDadoda  
5/24/2021 3:44:04 PM

Quant Time: May 22 00:36:55 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
Quant Title : SW846 8260  
QLast Update : Thu May 13 04:01:29 2021  
Response via : Initial Calibration

| Compound                                                                    | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                       |      |      |          |      |       |          |
| (# ) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052121\  
 Data File : VD069247.D  
 Acq On : 21 May 2021 19:23  
 Operator : VA/SY  
 Sample : M2472-13MSD  
 Misc : 5.05G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 BP-VPB-RW8-GW-938-940MSD

Manual Integrations  
 APPROVED

MMDadoda  
 5/24/2021 3:44:04 PM

Quant Time: May 22 00:36:55 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 13 04:01:29 2021  
 Response via : Initial Calibration

