

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD033121\  
 Data File : VD068747.D  
 Acq On : 31 Mar 2021 20:22  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2021 3:20:43 PM

Quant Time: Apr 01 00:47:33 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 02:00:55 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                        |                |      |                    |        |        |          |
| Internal Standards           |                |      |                    |        |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 454977             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 787103             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 717069             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 347420             | 50.00  | ug/l   | 0.00     |
|                              |                |      |                    |        |        |          |
| System Monitoring Compounds  |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 242003             | 52.75  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.50% |        |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 258817             | 52.85  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.70% |        |        |          |
| 50) Toluene-d8               | 10.344         | 98   | 970880             | 51.42  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 102.84% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 323261             | 52.81  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 105.62% |        |        |          |
|                              |                |      |                    |        |        |          |
| Target Compounds             |                |      |                    |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 157104             | 44.18  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 188293             | 42.97  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 235317             | 45.44  | ug/l   | 96       |
| 5) Bromomethane              | 2.768          | 94   | 182308             | 47.64  | ug/l   | 99       |
| 6) Chloroethane              | 2.926          | 64   | 160291             | 47.25  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 317714             | 51.46  | ug/l   | 94       |
| 8) Diethyl Ether             | 3.715          | 74   | 99176              | 58.09  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 193324             | 52.33  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.303          | 142  | 201743             | 46.63  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 57944              | 274.09 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 183586             | 51.05  | ug/l   | 97       |
| 13) Acrolein                 | 3.932          | 56   | 36618              | 206.27 | ug/l   | 95       |
| 14) Allyl chloride           | 4.720          | 41   | 212413             | 48.62  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.426          | 53   | 210584             | 253.42 | ug/l   | 97       |
| 16) Acetone                  | 4.162          | 43   | 137212             | 246.52 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.415          | 76   | 553224             | 47.91  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.726          | 43   | 92638              | 60.55  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 506213             | 55.89  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.967          | 84   | 263844             | 55.97  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 247462             | 49.49  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.361          | 45   | 557248             | 50.18  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.309          | 43   | 1458008            | 247.13 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.273          | 63   | 396519             | 48.68  | ug/l   | 99       |
| 25) 2-Butanone               | 7.220          | 43   | 214058             | 232.10 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 313275             | 43.23  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 269851             | 48.44  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.550          | 49   | 165217             | 51.30  | ug/l   | 90       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 145717             | 249.95 | ug/l   | 96       |
| 30) Chloroform               | 7.714          | 83   | 448765             | 50.70  | ug/l   | 100      |
| 31) Cyclohexane              | 7.991          | 56   | 313803             | 42.39  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.908          | 97   | 381025             | 48.22  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 310520             | 44.17  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.291          | 43   | 102080             | 46.01  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 326195             | 46.49  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.361          | 83   | 421241             | 48.55  | ug/l   | 97       |
| 40) Benzene                  | 8.355          | 78   | 964828             | 47.04  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD033121\  
 Data File : VD068747.D  
 Acq On : 31 Mar 2021 20:22  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2021 3:20:43 PM

Quant Time: Apr 01 00:47:33 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 02:00:55 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 58790    | 45.28   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 269901   | 50.29   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.455  | 43   | 218044   | 51.24   | ug/l   | 98       |
| 44) Trichloroethene           | 9.114  | 130  | 276474   | 48.57   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 233507   | 47.59   | ug/l   | 94       |
| 46) Dibromomethane            | 9.479  | 93   | 135412   | 48.53   | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.661  | 83   | 350230   | 48.93   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.455  | 41   | 107727   | 49.95   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 31311    | 1009.82 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 546483   | 246.68  | ug/l   | 99       |
| 52) Toluene                   | 10.408 | 92   | 667196   | 51.40   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 323260   | 49.09   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 377460   | 48.27   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 195055   | 49.69   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 221748   | 52.28   | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.949 | 76   | 309471   | 48.32   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 595504   | 275.59  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.985 | 43   | 371709   | 249.88  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.138 | 129  | 248276   | 51.00   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 191391   | 50.52   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.879 | 164  | 225445   | 48.50   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.667 | 112  | 699042   | 49.53   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131  | 257899   | 50.79   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.744 | 91   | 1244852  | 50.57   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.849 | 106  | 1000528  | 104.31  | ug/l   | 99       |
| 69) o-Xylene                  | 12.179 | 106  | 464553   | 52.26   | ug/l   | 99       |
| 70) Styrene                   | 12.191 | 104  | 771554   | 50.50   | ug/l   | 100      |
| 71) Bromoform                 | 12.361 | 173  | 137700   | 51.42   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.479 | 105  | 1168222  | 48.94   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.285 | 43   | 197233   | 49.57   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 202227   | 47.95   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 133992m  | 46.34   | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 285770   | 51.04   | ug/l   | 95       |
| 78) n-propylbenzene           | 12.820 | 91   | 1344299  | 47.30   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 771049   | 49.71   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 1017561  | 52.71   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 58377    | 45.93   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 811585   | 48.98   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 800979   | 48.69   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 1049399  | 52.62   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 1122217  | 46.92   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 1037464  | 47.67   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 533347   | 47.76   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.591 | 146  | 529394   | 48.23   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.838 | 91   | 936734   | 45.34   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.108 | 117  | 192238   | 49.09   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 463112   | 48.82   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 31142    | 51.61   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 317039   | 51.44   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 169598   | 48.19   | ug/l   | 98       |
| 95) Naphthalene               | 15.396 | 128  | 636446   | 58.98   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.585 | 180  | 273135   | 52.05   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD033121\  
Data File : VD068747.D  
Acq On : 31 Mar 2021 20:22  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

MMDadoda  
4/1/2021 3:20:43 PM

Quant Time: Apr 01 00:47:33 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 20 02:00:55 2021  
Response via : Initial Calibration

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

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

