

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030122\  
 Data File : VD072130.D  
 Acq On : 01 Mar 2022 09:25  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/02/2022  
 Supervised By : Mahesh Dadoda 03/02/2022

Quant Time: Mar 02 06:06:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 490698              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 790913              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 721699              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 352515              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 253921              | 49.886  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 99.780%  |         |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 243834              | 50.885  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 101.760% |         |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 942826              | 53.056  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 106.120% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 338651              | 51.880  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 103.760% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 207085              | 44.760  | ug/l   | 95       |
| 3) Chloromethane             | 2.209          | 50   | 209181              | 49.945  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 199249              | 47.705  | ug/l   | 100      |
| 5) Bromomethane              | 2.768          | 94   | 132676              | 50.791  | ug/l   | 96       |
| 6) Chloroethane              | 2.926          | 64   | 131779              | 49.917  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.279          | 101  | 391126              | 48.403  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.715          | 74   | 110583              | 48.006  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 236993              | 46.943  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.303          | 142  | 222704              | 40.572  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 64183               | 221.002 | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 210262              | 46.890  | ug/l   | 98       |
| 13) Acrolein                 | 3.926          | 56   | 119943              | 209.441 | ug/l   | 99       |
| 14) Allyl chloride           | 4.715          | 41   | 345029              | 43.904  | ug/l   | 90       |
| 15) Acrylonitrile            | 5.420          | 53   | 289617              | 232.625 | ug/l   | 99       |
| 16) Acetone                  | 4.150          | 43   | 268929              | 244.473 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.415          | 76   | 560754              | 44.993  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.720          | 43   | 127082              | 45.356  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 548259              | 50.259  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.968          | 84   | 246909              | 45.099  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 246864              | 48.995  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.367          | 45   | 807825              | 49.227  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2309495             | 263.537 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 468483              | 47.987  | ug/l   | 98       |
| 25) 2-Butanone               | 7.209          | 43   | 374117              | 246.067 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 400327              | 51.244  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 288333              | 49.947  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.544          | 49   | 196166              | 47.135  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.561          | 42   | 227321              | 234.275 | ug/l   | 99       |
| 30) Chloroform               | 7.709          | 83   | 497904              | 49.674  | ug/l   | 97       |
| 31) Cyclohexane              | 7.985          | 56   | 412907              | 45.927  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 433138              | 50.214  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 363722              | 50.109  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 160336              | 47.634  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 378895              | 50.928  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.350          | 83   | 424073              | 49.917  | ug/l   | 97       |
| 40) Benzene                  | 8.350          | 78   | 1011906             | 49.404  | ug/l   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030122\  
 Data File : VD072130.D  
 Acq On : 01 Mar 2022 09:25  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/02/2022  
 Supervised By : Mahesh Dadoda 03/02/2022

Quant Time: Mar 02 06:06:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 90805    | 43.504  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 312948   | 50.935  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 302179   | 48.209  | ug/l   | 99       |
| 44) Trichloroethene           | 9.114  | 130  | 275001   | 49.261  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 269939   | 49.407  | ug/l   | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 142076   | 49.276  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.661  | 83   | 373882   | 50.269  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.456  | 41   | 156238   | 49.344  | ug/l # | 93       |
| 49) 1,4-Dioxane               | 9.456  | 88   | 31537    | 922.026 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 833643   | 250.956 | ug/l   | 100      |
| 52) Toluene                   | 10.403 | 92   | 662569   | 50.548  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 361523   | 53.148  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 414603   | 51.499  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 202022   | 49.789  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 249269   | 51.444  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 344430   | 49.114  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 533107   | 245.930 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.979 | 43   | 580411   | 256.161 | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.138 | 129  | 252311   | 49.795  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 190696   | 49.181  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 230363   | 50.559  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.667 | 112  | 704456   | 50.364  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 267296   | 51.489  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1304868  | 53.054  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.849 | 106  | 1001390  | 106.359 | ug/l   | 99       |
| 69) o-Xylene                  | 12.173 | 106  | 466683   | 52.691  | ug/l   | 97       |
| 70) Styrene                   | 12.191 | 104  | 814515   | 53.589  | ug/l   | 100      |
| 71) Bromoform                 | 12.355 | 173  | 148327   | 49.819  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.473 | 105  | 1277507  | 52.781  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 294924   | 50.462  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 231826   | 48.445  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 163247m  | 48.889  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 287476   | 50.719  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 1570478  | 52.790  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 887184   | 51.525  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1080468  | 53.461  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 72034    | 54.023  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 923018   | 51.506  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 927910   | 53.437  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 1072548  | 53.984  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1410695  | 53.330  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 1188718  | 54.637  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 581298   | 50.735  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 581061   | 50.471  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.832 | 91   | 1106970  | 53.507  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.102 | 117  | 218063   | 49.933  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 509809   | 50.739  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 36009    | 48.303  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 326881   | 52.964  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.255 | 225  | 179800   | 52.980  | ug/l   | 98       |
| 95) Naphthalene               | 15.385 | 128  | 597532   | 53.333  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 284077   | 53.363  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030122\  
 Data File : VD072130.D  
 Acq On : 01 Mar 2022 09:25  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

**Manual Integrations**  
**APPROVED**

Reviewed By : John Carlone 03/02/2022  
 Supervised By : Mahesh Dadoda 03/02/2022

Quant Time: Mar 02 06:06:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 19 04:05:38 2022  
 Response via : Initial Calibration

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

-----

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

## Manual Integrations

Quant Time: Mar 02 06:06:30 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021822S.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 19 04:05:38 2022  
Response via : Initial Calibration

