

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040522\  
 Data File : VD072526.D  
 Acq On : 05 Apr 2022 10:24  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 06 01:09:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/06/2022  
 Supervised By : Mahesh Dadoda 04/06/2022

04/06/2022  
 Supervised By : Mahesh  
 Dadoda

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.973  | 168  | 376561   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 590876   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 562927   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.561 | 152  | 288092   | 50.000 | ug/l  | 0.00     |

### System Monitoring Compounds

|                           |        |       |          |          |      |          |
|---------------------------|--------|-------|----------|----------|------|----------|
| 33) 1,2-Dichloroethane-d4 | 8.326  | 65    | 213865   | 46.949   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 93.900%  |
| 35) Dibromofluoromethane  | 7.914  | 113   | 232064   | 50.537   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 101.080% |
| 50) Toluene-d8            | 10.332 | 98    | 799127   | 50.065   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 100.120% |
| 62) 4-Bromofluorobenzene  | 12.620 | 95    | 315187   | 50.561   | ug/l | 0.00     |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 101.120% |

### Target Compounds

|                              |       |     |         |         |        | Qvalue |
|------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.991 | 85  | 158698  | 53.103  | ug/l   | 96     |
| 3) Chloromethane             | 2.209 | 50  | 141993  | 51.368  | ug/l   | 97     |
| 4) Vinyl Chloride            | 2.350 | 62  | 157985  | 49.730  | ug/l   | 100    |
| 5) Bromomethane              | 2.768 | 94  | 115945  | 54.433  | ug/l   | 96     |
| 6) Chloroethane              | 2.926 | 64  | 111009  | 54.525  | ug/l   | 99     |
| 7) Trichlorofluoromethane    | 3.274 | 101 | 361080  | 55.665  | ug/l   | 96     |
| 8) Diethyl Ether             | 3.715 | 74  | 98797   | 51.252  | ug/l   | 82     |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 230522  | 53.286  | ug/l   | 97     |
| 10) Methyl Iodide            | 4.303 | 142 | 186371  | 46.500  | ug/l   | 99     |
| 11) Tert butyl alcohol       | 5.220 | 59  | 58572   | 243.484 | ug/l   | 100    |
| 12) 1,1-Dichloroethene       | 4.073 | 96  | 180805  | 53.458  | ug/l   | 86     |
| 13) Acrolein                 | 3.932 | 56  | 11386   | 106.660 | ug/l   | 95     |
| 14) Allyl chloride           | 4.715 | 41  | 264898  | 44.724  | ug/l # | 93     |
| 15) Acrylonitrile            | 5.415 | 53  | 241385  | 250.388 | ug/l   | 97     |
| 16) Acetone                  | 4.150 | 43  | 218315  | 257.022 | ug/l   | 94     |
| 17) Carbon Disulfide         | 4.415 | 76  | 373067  | 50.863  | ug/l   | 100    |
| 18) Methyl Acetate           | 4.715 | 43  | 99452   | 41.560  | ug/l # | 82     |
| 19) Methyl tert-butyl Ether  | 5.479 | 73  | 506225  | 51.280  | ug/l   | 98     |
| 20) Methylene Chloride       | 4.962 | 84  | 230934  | 45.669  | ug/l   | 86     |
| 21) trans-1,2-Dichloroethene | 5.468 | 96  | 209408  | 50.715  | ug/l   | 87     |
| 22) Diisopropyl ether        | 6.362 | 45  | 695847  | 51.207  | ug/l # | 90     |
| 23) Vinyl Acetate            | 6.303 | 43  | 1812153 | 247.991 | ug/l # | 92     |
| 24) 1,1-Dichloroethane       | 6.267 | 63  | 421376  | 51.460  | ug/l   | 96     |
| 25) 2-Butanone               | 7.209 | 43  | 311297  | 264.991 | ug/l   | 91     |
| 26) 2,2-Dichloropropane      | 7.209 | 77  | 383412  | 52.716  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene   | 7.209 | 96  | 272438  | 53.053  | ug/l   | 89     |
| 28) Bromochloromethane       | 7.550 | 49  | 171955  | 49.010  | ug/l # | 74     |
| 29) Tetrahydrofuran          | 7.562 | 42  | 181341  | 255.682 | ug/l # | 87     |
| 30) Chloroform               | 7.703 | 83  | 473645  | 51.421  | ug/l   | 95     |
| 31) Cyclohexane              | 7.979 | 56  | 317858  | 53.365  | ug/l   | 86     |
| 32) 1,1,1-Trichloroethane    | 7.897 | 97  | 418572  | 53.577  | ug/l   | 95     |
| 36) 1,1-Dichloropropene      | 8.109 | 75  | 313490  | 53.346  | ug/l   | 95     |
| 37) Ethyl Acetate            | 7.291 | 43  | 126768  | 52.101  | ug/l # | 93     |
| 38) Carbon Tetrachloride     | 8.091 | 117 | 368779  | 58.295  | ug/l   | 100    |
| 39) Methylcyclohexane        | 9.350 | 83  | 354794  | 51.806  | ug/l   | 96     |
| 40) Benzene                  | 8.344 | 78  | 920039  | 57.370  | ug/l   | 97     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040522\  
 Data File : VD072526.D  
 Acq On : 05 Apr 2022 10:24  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Apr 06 01:09:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 30 02:44:36 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 04/06/2022  
 Supervised By : Mahesh Dadoda 04/06/2022

04/06/2022  
 Supervised By : Mahesh  
 Dadoda

| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|----------|-------|----------|-----|
| 41) Methacrylonitrile         | 7.520  | 41   | 78513    | 55.042   | ug/l  | #        | 84  |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 272785   | 55.651   | ug/l  |          | 95  |
| 43) Isopropyl Acetate         | 8.444  | 43   | 250147   | 53.597   | ug/l  | #        | 90  |
| 44) Trichloroethene           | 9.108  | 130  | 258802   | 56.844   | ug/l  |          | 90  |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 241003   | 54.023   | ug/l  |          | 98  |
| 46) Dibromomethane            | 9.473  | 93   | 133286   | 56.948   | ug/l  |          | 96  |
| 47) Bromodichloromethane      | 9.656  | 83   | 367658   | 54.679   | ug/l  |          | 97  |
| 48) Methyl methacrylate       | 9.450  | 41   | 123458   | 54.485   | ug/l  | #        | 85  |
| 49) 1,4-Dioxane               | 9.456  | 88   | 31210    | 1120.992 | ug/l  |          | 88  |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 688327   | 274.857  | ug/l  |          | 91  |
| 52) Toluene                   | 10.397 | 92   | 625344   | 58.697   | ug/l  |          | 96  |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 330461   | 56.399   | ug/l  |          | 97  |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 385238   | 55.609   | ug/l  | #        | 87  |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 201775   | 56.865   | ug/l  |          | 99  |
| 56) Ethyl methacrylate        | 10.655 | 69   | 234834   | 53.734   | ug/l  | #        | 80  |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 320337   | 54.609   | ug/l  |          | 99  |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 459510   | 262.308  | ug/l  |          | 94  |
| 59) 2-Hexanone                | 10.973 | 43   | 494825   | 290.563  | ug/l  |          | 90  |
| 60) Dibromochloromethane      | 11.132 | 129  | 256095   | 55.952   | ug/l  |          | 98  |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 180251   | 57.215   | ug/l  |          | 98  |
| 64) Tetrachloroethene         | 10.873 | 164  | 210103   | 57.125   | ug/l  |          | 98  |
| 65) Chlorobenzene             | 11.661 | 112  | 674943   | 53.628   | ug/l  |          | 99  |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 277562   | 55.162   | ug/l  |          | 97  |
| 67) Ethyl Benzene             | 11.738 | 91   | 1230497  | 56.032   | ug/l  |          | 99  |
| 68) m/p-Xylenes               | 11.844 | 106  | 950213   | 114.052  | ug/l  |          | 99  |
| 69) o-Xylene                  | 12.173 | 106  | 457528   | 56.917   | ug/l  |          | 94  |
| 70) Styrene                   | 12.185 | 104  | 798741   | 56.380   | ug/l  |          | 98  |
| 71) Bromoform                 | 12.350 | 173  | 147617   | 55.340   | ug/l  | #        | 99  |
| 73) Isopropylbenzene          | 12.467 | 105  | 1262773  | 54.274   | ug/l  |          | 100 |
| 74) N-amyl acetate            | 12.279 | 43   | 248328   | 50.868   | ug/l  |          | 91  |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 227118   | 51.536   | ug/l  |          | 98  |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 165721m  | 52.742   | ug/l  |          |     |
| 77) Bromobenzene              | 12.749 | 156  | 285452   | 54.737   | ug/l  |          | 89  |
| 78) n-propylbenzene           | 12.808 | 91   | 1534777  | 54.681   | ug/l  |          | 98  |
| 79) 2-Chlorotoluene           | 12.897 | 91   | 879321   | 53.569   | ug/l  |          | 98  |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 1073206  | 53.858   | ug/l  |          | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 67931    | 53.050   | ug/l  |          | 87  |
| 82) 4-Chlorotoluene           | 12.997 | 91   | 903683   | 52.861   | ug/l  |          | 98  |
| 83) tert-Butylbenzene         | 13.214 | 119  | 940321   | 54.509   | ug/l  |          | 96  |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 1056717  | 54.231   | ug/l  |          | 100 |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1417696  | 54.559   | ug/l  |          | 99  |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 1172236  | 55.192   | ug/l  |          | 100 |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 581765   | 53.837   | ug/l  |          | 100 |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 569351   | 52.276   | ug/l  |          | 100 |
| 89) n-Butylbenzene            | 13.832 | 91   | 1117988  | 55.256   | ug/l  |          | 99  |
| 90) Hexachloroethane          | 14.096 | 117  | 233243   | 53.644   | ug/l  |          | 100 |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 507187   | 53.215   | ug/l  |          | 99  |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 33690    | 51.691   | ug/l  |          | 86  |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 315802   | 53.456   | ug/l  |          | 100 |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 178474   | 53.934   | ug/l  |          | 99  |
| 95) Naphthalene               | 15.385 | 128  | 586447   | 51.088   | ug/l  |          | 99  |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 278748   | 54.061   | ug/l  |          | 99  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040522\  
Data File : VD072526.D  
Acq On : 05 Apr 2022 10:24  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 04/06/2022  
Supervised By :Mahesh Dadoda 04/06/2022

Quant Time: Apr 06 01:09:49 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 02:44:36 2022  
Response via : Initial Calibration

04/06/2022  
Supervised By :Mahesh  
Dadoda

04/06/2022

| 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\VD040522\  
Data File : VD072526.D  
Acq On : 05 Apr 2022 10:24  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

## Instrument :

MSVOA\_D

## ClientSampleId :

VSTDCCC050

## Manual Integrations

## APPROVED

Reviewed By :John Carlone 04/06/2022

Supervised By :Mahesh Dadoda 04/06/2022

04/06/2022

Supervised By :Mahesh

Dadoda

04/06/2022

Quant Time: Apr 06 01:09:49 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D032922S.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 30 02:44:36 2022  
Response via : Initial Calibration

