

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092222\  
 Data File : VD074403.D  
 Acq On : 22 Sep 2022 15:12  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD092222

Quant Time: Sep 23 08:09:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 23 08:08:51 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 09/23/2022  
 Supervised By :Mahesh Dadoda 09/23/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 87847      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 152350     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 139924     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 66745      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 46074      | 49.503   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.000%  |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 47842      | 45.324   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 90.640%  |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 190777     | 51.524   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 103.040% |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 57545      | 44.432   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 88.860%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 35753      | 47.584   | ug/l   | 97       |
| 3) Chloromethane             | 2.140          | 50   | 42017      | 44.794   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.275          | 62   | 31508      | 49.327   | ug/l   | 97       |
| 5) Bromomethane              | 2.681          | 94   | 14457      | 58.705   | ug/l   | 99       |
| 6) Chloroethane              | 2.828          | 64   | 19400      | 49.326   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.164          | 101  | 70524      | 48.961   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.587          | 74   | 23501      | 47.661   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.958          | 101  | 45566      | 46.686   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.158          | 142  | 42819      | 48.301   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.040          | 59   | 30242      | 132.471  | ug/l # | 79       |
| 12) 1,1-Dichloroethene       | 3.934          | 96   | 45972      | 48.182   | ug/l   | 96       |
| 13) Acrolein                 | 3.799          | 56   | 6485       | 177.437  | ug/l   | 96       |
| 14) Allyl chloride           | 4.552          | 41   | 68522      | 47.779   | ug/l   | 100      |
| 15) Acrylonitrile            | 5.252          | 53   | 59102      | 248.080  | ug/l   | 99       |
| 16) Acetone                  | 4.016          | 43   | 43788      | 229.523  | ug/l   | 90       |
| 17) Carbon Disulfide         | 4.264          | 76   | 121654     | 48.112   | ug/l   | 95       |
| 18) Methyl Acetate           | 4.569          | 43   | 28704      | 46.015   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.311          | 73   | 113600     | 49.491   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.799          | 84   | 64418      | 47.172   | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.311          | 96   | 51922      | 49.253   | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.210          | 45   | 156974     | 49.860   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.152          | 43   | 387571     | 245.458  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.105          | 63   | 95572      | 47.773   | ug/l   | 97       |
| 25) 2-Butanone               | 7.081          | 43   | 73969      | 239.771  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 81357      | 46.675   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 60103      | 48.166   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.422          | 49   | 39291      | 53.653   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.440          | 42   | 45956      | 247.059  | ug/l   | 99       |
| 30) Chloroform               | 7.593          | 83   | 94898      | 47.938   | ug/l   | 93       |
| 31) Cyclohexane              | 7.875          | 56   | 81502      | 46.079   | ug/l   | 92       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 83216      | 48.878   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.005          | 75   | 72824      | 47.503   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.169          | 43   | 32643      | 50.228   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 63447      | 49.497   | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.269          | 83   | 87012      | 47.837   | ug/l   | 95       |
| 40) Benzene                  | 8.252          | 78   | 215607     | 47.879   | ug/l   | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092222\  
 Data File : VD074403.D  
 Acq On : 22 Sep 2022 15:12  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD092222

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/23/2022  
 Supervised By :Mahesh Dadoda 09/23/2022

Quant Time: Sep 23 08:09:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 23 08:08:51 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 19119    | 48.119  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 54395    | 47.046  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 61620    | 47.551  | ug/l   | 99       |
| 44) Trichloroethene           | 9.028  | 130  | 56251    | 46.959  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 55823    | 47.516  | ug/l   | 97       |
| 46) Dibromomethane            | 9.393  | 93   | 28616    | 48.510  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.587  | 83   | 70863    | 47.709  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.381  | 41   | 29459    | 49.311  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 6767     | 929.460 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 165742   | 249.044 | ug/l   | 100      |
| 52) Toluene                   | 10.334 | 92   | 135318   | 48.083  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 69667    | 49.052  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 84844    | 48.738  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 39912    | 47.640  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 54388    | 52.117  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 68547    | 48.292  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 46688    | 222.930 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.922 | 43   | 112523   | 249.556 | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.075 | 129  | 46534    | 49.239  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 36971    | 49.228  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 47105    | 46.023  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.604 | 112  | 143451   | 48.541  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 49590    | 48.202  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.681 | 91   | 267904   | 48.660  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.793 | 106  | 206006   | 99.389  | ug/l   | 98       |
| 69) o-Xylene                  | 12.116 | 106  | 96171    | 48.673  | ug/l   | 98       |
| 70) Styrene                   | 12.134 | 104  | 165679   | 48.800  | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 26621    | 49.623  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.416 | 105  | 259009   | 49.705  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.228 | 43   | 59680    | 50.642  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 47020    | 50.589  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 34428m   | 51.915  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 54743    | 48.407  | ug/l   | 100      |
| 78) n-propylbenzene           | 12.757 | 91   | 320674   | 49.747  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 167851   | 48.869  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.898 | 105  | 210278   | 49.099  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 14065    | 52.302  | ug/l # | 100      |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 177703   | 50.295  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 184714   | 49.441  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.204 | 105  | 207987   | 49.099  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.340 | 105  | 281879   | 49.521  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 234905   | 49.754  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.451 | 146  | 113833   | 48.879  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 112452   | 48.515  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.781 | 91   | 230595   | 49.559  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.051 | 117  | 38188    | 50.988  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 97002    | 48.347  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.439 | 75   | 6737     | 53.640  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.092 | 180  | 64812    | 48.958  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.198 | 225  | 36132    | 47.640  | ug/l   | 99       |
| 95) Naphthalene               | 15.328 | 128  | 129367   | 51.289  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 58614    | 50.873  | ug/l   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092222\  
Data File : VD074403.D  
Acq On : 22 Sep 2022 15:12  
Operator : VA/SY  
Sample : VSTDICV050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
ICVVD092222

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 09/23/2022  
Supervised By :Mahesh Dadoda 09/23/2022

Quant Time: Sep 23 08:09:20 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
Quant Title : SW846 8260  
QLast Update : Fri Sep 23 08:08:51 2022  
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\VD092222\  
 Data File : VD074403.D  
 Acq On : 22 Sep 2022 15:12  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD092222

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 09/23/2022  
 Supervised By :Mahesh Dadoda 09/23/2022

Quant Time: Sep 23 08:09:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 23 08:08:51 2022  
 Response via : Initial Calibration

