

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD071922\  
 Data File : VD073857.D  
 Acq On : 19 Jul 2022 12:43  
 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 :Krupa Patel 07/20/2022  
 Supervised By :Mahesh Dadoda 07/20/2022

Quant Time: Jul 19 15:41:53 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 01:56:16 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.967          | 168  | 141828     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 235723     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 209127     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 104546     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 76152      | 44.965   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 89.920%  |        |          |
| 35) Dibromofluoromethane     | 7.902          | 113  | 80917      | 48.658   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.320%  |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 314659     | 52.122   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 104.240% |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 104042     | 50.125   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 100.260% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 78774      | 61.324   | ug/l   | 95       |
| 3) Chloromethane             | 2.209          | 50   | 130529     | 63.456   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.344          | 62   | 161254     | 49.332   | ug/l   | 98       |
| 5) Bromomethane              | 2.767          | 94   | 91458      | 41.393   | ug/l   | 99       |
| 6) Chloroethane              | 2.915          | 64   | 110804     | 50.291   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 150671     | 51.546   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.703          | 74   | 33459      | 46.663   | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 86937      | 53.601   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.297          | 142  | 83306      | 52.140   | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 17737      | 183.669  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 79695      | 55.295   | ug/l   | 92       |
| 13) Acrolein                 | 3.920          | 56   | 19582      | 249.090  | ug/l   | 97       |
| 14) Allyl chloride           | 4.703          | 41   | 107454     | 51.078   | ug/l # | 86       |
| 15) Acrylonitrile            | 5.409          | 53   | 63953      | 218.532  | ug/l   | 99       |
| 16) Acetone                  | 4.150          | 43   | 58903      | 211.958  | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.403          | 76   | 248146     | 53.882   | ug/l # | 95       |
| 18) Methyl Acetate           | 4.703          | 43   | 29538      | 44.631   | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 162939     | 47.197   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.950          | 84   | 103322     | 54.759   | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.461          | 96   | 91802      | 53.879   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.356          | 45   | 223372     | 49.895   | ug/l # | 96       |
| 23) Vinyl Acetate            | 6.291          | 43   | 596143     | 243.958  | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.250          | 63   | 153130     | 51.786   | ug/l   | 98       |
| 25) 2-Butanone               | 7.203          | 43   | 83238      | 211.029  | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 146245     | 55.694   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 100271     | 52.274   | ug/l   | 90       |
| 28) Bromochloromethane       | 7.538          | 49   | 52894      | 47.677   | ug/l # | 79       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 51664      | 216.009  | ug/l # | 88       |
| 30) Chloroform               | 7.702          | 83   | 168018     | 51.622   | ug/l   | 98       |
| 31) Cyclohexane              | 7.973          | 56   | 138090     | 51.315   | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 7.891          | 97   | 159933     | 52.817   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.102          | 75   | 133064     | 55.465   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.291          | 43   | 38977      | 45.183   | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 8.085          | 117  | 139668     | 50.977   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.344          | 83   | 157478     | 56.313   | ug/l   | 94       |
| 40) Benzene                  | 8.338          | 78   | 345508     | 52.935   | ug/l   | 98       |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Reviewed By :Krupa Patel 07/20/2022  
 Supervised By :Mahesh Dadoda 07/20/2022

Quant Time: Jul 19 15:41:53 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D071822S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 01:56:16 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 24679    | 46.037  | ug/l   | 93       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 95730    | 47.922  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 78648    | 45.622  | ug/l # | 90       |
| 44) Trichloroethene           | 9.102  | 130  | 99522    | 54.634  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.373  | 63   | 79290    | 50.258  | ug/l   | 95       |
| 46) Dibromomethane            | 9.467  | 93   | 46106    | 48.180  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.649  | 83   | 123659   | 49.909  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.444  | 41   | 38067    | 45.038  | ug/l   | 85       |
| 49) 1,4-Dioxane               | 9.449  | 88   | 8685     | 867.389 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 190008   | 220.469 | ug/l   | 94       |
| 52) Toluene                   | 10.391 | 92   | 235927   | 53.707  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 109275   | 49.958  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 131720   | 52.044  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 58114    | 47.741  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 66620    | 47.273  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 98486    | 47.574  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 115680   | 153.512 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.973 | 43   | 133608   | 226.881 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.126 | 129  | 78400    | 47.544  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.232 | 107  | 57752    | 46.892  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.867 | 164  | 83573    | 59.919  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 232716   | 54.030  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 86708    | 52.972  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.732 | 91   | 454881   | 57.201  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.843 | 106  | 360350   | 115.931 | ug/l   | 98       |
| 69) o-Xylene                  | 12.167 | 106  | 166041   | 57.057  | ug/l   | 95       |
| 70) Styrene                   | 12.185 | 104  | 275998   | 55.475  | ug/l   | 98       |
| 71) Bromoform                 | 12.343 | 173  | 41920    | 47.329  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.467 | 105  | 451516   | 57.021  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 73975    | 47.362  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 63254    | 46.217  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.761 | 75   | 51454m   | 45.870  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 93299    | 53.017  | ug/l   | 86       |
| 78) n-propylbenzene           | 12.808 | 91   | 550038   | 56.941  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 300417   | 55.438  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.943 | 105  | 376066   | 56.342  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 19039    | 45.800  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 314934   | 54.956  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 328432   | 57.550  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 370972   | 55.800  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.385 | 105  | 500445   | 58.154  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 420243   | 57.995  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 197149   | 53.498  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 190982   | 52.428  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 397118   | 57.722  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 71080    | 49.641  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 164552   | 51.682  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 10297    | 44.804  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 99385    | 51.130  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.243 | 225  | 55669    | 54.042  | ug/l   | 99       |
| 95) Naphthalene               | 15.379 | 128  | 170687   | 48.854  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.573 | 180  | 80791    | 48.887  | ug/l   | 96       |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_D  
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 VSTDCCC050

**Manual Integrations**  
**APPROVED**

Reviewed By :Krupa Patel 07/20/2022  
 Supervised By :Mahesh Dadoda 07/20/2022

Quant Time: Jul 19 15:41:53 2022  
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 Quant Title : SW846 8260  
 QLast Update : Tue Jul 19 01:56:16 2022  
 Response via : Initial Calibration

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

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

