

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092222\  
 Data File : VD074399.D  
 Acq On : 22 Sep 2022 12:11  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

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

Quant Time: Sep 23 07:03:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 23 06:55:43 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 80475               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 139427              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 128057              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.510         | 152  | 61803               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 43673               | 51.012  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 102.020% |         |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 43367               | 44.818  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 89.640%  |         |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 178288              | 52.335  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 104.680% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 54463               | 40.860  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 81.720%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 32789               | 45.625  | ug/l   | 93       |
| 3) Chloromethane             | 2.140          | 50   | 45864               | 46.859  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.275          | 62   | 28616               | 48.459  | ug/l   | 99       |
| 5) Bromomethane              | 2.681          | 94   | 9184                | 42.937  | ug/l   | 97       |
| 6) Chloroethane              | 2.822          | 64   | 18748               | 50.219  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.163          | 101  | 64281               | 48.341  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.587          | 74   | 24399               | 54.221  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.958          | 101  | 43251               | 48.512  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.152          | 142  | 36294               | 57.689  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.034          | 59   | 29501               | 125.895 | ug/l # | 79       |
| 12) 1,1-Dichloroethene       | 3.934          | 96   | 41928               | 48.234  | ug/l   | 95       |
| 13) Acrolein                 | 3.787          | 56   | 7072                | 217.043 | ug/l   | 95       |
| 14) Allyl chloride           | 4.558          | 41   | 66937               | 50.836  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.252          | 53   | 58187               | 267.500 | ug/l   | 97       |
| 16) Acetone                  | 4.016          | 43   | 43750               | 242.052 | ug/l   | 89       |
| 17) Carbon Disulfide         | 4.263          | 76   | 116977              | 50.120  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.563          | 43   | 29099               | 46.366  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.310          | 73   | 112977              | 53.553  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.799          | 84   | 66769               | 35.357  | ug/l   | 94       |
| 21) trans-1,2-Dichloroethene | 5.305          | 96   | 48621               | 50.044  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.210          | 45   | 153979              | 52.817  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.152          | 43   | 380354              | 297.953 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.110          | 63   | 94045               | 51.256  | ug/l # | 94       |
| 25) 2-Butanone               | 7.075          | 43   | 74164               | 254.251 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 79963               | 48.982  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 58184               | 50.897  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.428          | 49   | 36862               | 54.445  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.440          | 42   | 46542               | 275.951 | ug/l   | 99       |
| 30) Chloroform               | 7.593          | 83   | 92746               | 51.271  | ug/l   | 91       |
| 31) Cyclohexane              | 7.875          | 56   | 76600               | 47.863  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 79206               | 50.876  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 69499               | 48.898  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.163          | 43   | 31085               | 51.554  | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 60688               | 51.740  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.269          | 83   | 83827               | 50.093  | ug/l   | 98       |
| 40) Benzene                  | 8.251          | 78   | 210091              | 50.857  | ug/l   | 99       |

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 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

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

Quant Time: Sep 23 07:03:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 23 06:55:43 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.393  | 41   | 17420    | 53.705   | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 54988    | 52.193   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 62177    | 52.274   | ug/l   | 99       |
| 44) Trichloroethene           | 9.022  | 130  | 53602    | 49.916   | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 54512    | 50.477   | ug/l   | 100      |
| 46) Dibromomethane            | 9.393  | 93   | 28168    | 52.146   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.581  | 83   | 70680    | 52.334   | ug/l   | 92       |
| 48) Methyl methacrylate       | 9.381  | 41   | 29885    | 54.577   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 7159     | 1125.136 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 167424   | 272.933  | ug/l   | 98       |
| 52) Toluene                   | 10.334 | 92   | 132593   | 51.316   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 69416    | 53.388   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 84748    | 52.996   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 39561    | 52.108   | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.592 | 69   | 51878    | 54.297   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.875 | 76   | 68764    | 51.818   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 40787    | 251.088  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.922 | 43   | 112348   | 268.076  | ug/l   | 100      |
| 60) Dibromochloromethane      | 11.075 | 129  | 46236    | 53.328   | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 36070    | 52.384   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 44938    | 48.530   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.604 | 112  | 139611   | 51.021   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.675 | 131  | 48728    | 51.502   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.681 | 91   | 261790   | 51.577   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.792 | 106  | 196959   | 103.472  | ug/l   | 98       |
| 69) o-Xylene                  | 12.116 | 106  | 95464    | 52.831   | ug/l   | 100      |
| 70) Styrene                   | 12.134 | 104  | 163546   | 52.299   | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 25953    | 52.443   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.416 | 105  | 250865   | 52.199   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.228 | 43   | 59282    | 53.692   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 46173    | 52.767   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 32296m   | 60.830   | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 54851    | 51.895   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.757 | 91   | 308384   | 51.624   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 163683   | 51.393   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.898 | 105  | 203274   | 51.051   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 13338    | 53.121   | ug/l # | 100      |
| 82) 4-Chlorotoluene           | 12.939 | 91   | 167386   | 51.026   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 178849   | 51.455   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.204 | 105  | 204281   | 52.046   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.339 | 105  | 268093   | 50.476   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 225343   | 51.711   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.451 | 146  | 112001   | 51.960   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 110884   | 51.405   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.781 | 91   | 218500   | 50.992   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.051 | 117  | 36489    | 51.356   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 96652    | 51.895   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.439 | 75   | 6430     | 51.833   | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.092 | 180  | 64500    | 52.862   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.198 | 225  | 34610    | 50.223   | ug/l   | 97       |
| 95) Naphthalene               | 15.328 | 128  | 127966   | 54.434   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 54736    | 51.174   | ug/l   | 99       |

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 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

**Instrument :**  
 MSVOA\_D  
**ClientSampleId :**  
 VSTDICCC050

**Manual Integrations**  
**APPROVED**

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

Quant Time: Sep 23 07:03:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 23 06:55:43 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

