

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122722\  
 Data File : VD075053.D  
 Acq On : 27 Dec 2022 14:58  
 Operator : KP/SY  
 Sample : VD1227SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1227SBS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 12/28/2022  
 Supervised By :Mahesh Dadoda 12/28/2022

Quant Time: Dec 28 01:52:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D12222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 23 05:54:19 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 135701              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 243111              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 210207              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.522         | 152  | 91374               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 68904               | 51.947  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.900% |         |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 75482               | 52.764  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.520% |         |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 297913              | 51.540  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 103.080% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 97260               | 51.939  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 103.880% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 17453               | 25.211  | ug/l   | 98       |
| 3) Chloromethane             | 2.146          | 50   | 31376               | 26.532  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.281          | 62   | 29688               | 26.380  | ug/l   | 96       |
| 5) Bromomethane              | 2.675          | 94   | 13766               | 26.117  | ug/l   | 98       |
| 6) Chloroethane              | 2.828          | 64   | 17395               | 24.414  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.164          | 101  | 39159               | 22.673  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.587          | 74   | 14128               | 21.333  | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo... | 3.963          | 101  | 26823               | 22.043  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.163          | 142  | 21601               | 20.680  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.069          | 59   | 10699               | 96.500  | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 26796               | 22.790  | ug/l   | 90       |
| 13) Acrolein                 | 3.799          | 56   | 17287               | 108.253 | ug/l   | 97       |
| 14) Allyl chloride           | 4.558          | 41   | 46450               | 22.704  | ug/l # | 91       |
| 15) Acrylonitrile            | 5.258          | 53   | 35080               | 104.608 | ug/l   | 99       |
| 16) Acetone                  | 4.022          | 43   | 33449               | 97.094  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.263          | 76   | 65538               | 28.090  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.558          | 43   | 20164               | 22.506  | ug/l # | 85       |
| 19) Methyl tert-butyl Ether  | 5.316          | 73   | 64309               | 20.592  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.799          | 84   | 41264               | 23.424  | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 5.310          | 96   | 29648               | 22.721  | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.216          | 45   | 91737               | 20.816  | ug/l # | 94       |
| 23) Vinyl Acetate            | 6.157          | 43   | 218882              | 109.822 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 55240               | 21.460  | ug/l   | 100      |
| 25) 2-Butanone               | 7.087          | 43   | 46381               | 100.888 | ug/l # | 84       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 47948               | 20.852  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 35608               | 21.633  | ug/l   | 89       |
| 28) Bromochloromethane       | 7.428          | 49   | 18739               | 21.030  | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.452          | 42   | 27196               | 102.611 | ug/l # | 82       |
| 30) Chloroform               | 7.599          | 83   | 53830               | 21.417  | ug/l   | 98       |
| 31) Cyclohexane              | 7.875          | 56   | 48299               | 23.851  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 46534               | 21.396  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.004          | 75   | 41025               | 22.202  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.163          | 43   | 17858               | 19.132  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 35161               | 22.006  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.275          | 83   | 52002               | 23.173  | ug/l   | 92       |
| 40) Benzene                  | 8.251          | 78   | 122618              | 21.796  | ug/l   | 98       |

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 Sample : VD1227SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1227SBS01

Manual Integrations  
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Reviewed By :Krupa Patel 12/28/2022  
 Supervised By :Mahesh Dadoda 12/28/2022

Quant Time: Dec 28 01:52:43 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D12222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 23 05:54:19 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 11256    | 19.381  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 31907    | 22.230  | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 39343    | 20.952  | ug/l # | 90       |
| 44) Trichloroethene           | 9.028  | 130  | 33594    | 21.681  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 31616    | 20.982  | ug/l   | 96       |
| 46) Dibromomethane            | 9.393  | 93   | 15709    | 20.962  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.587  | 83   | 39947    | 20.468  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.381  | 41   | 17563    | 20.591  | ug/l   | 86       |
| 49) 1,4-Dioxane               | 9.393  | 88   | 3775     | 399.715 | ug/l # | 78       |
| 51) 4-Methyl-2-Pentanone      | 10.163 | 43   | 94008    | 101.343 | ug/l   | 91       |
| 52) Toluene                   | 10.334 | 92   | 76737    | 21.421  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 38988    | 20.533  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 47913    | 20.939  | ug/l # | 84       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 22356    | 20.372  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 29196    | 20.212  | ug/l # | 78       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 38453    | 20.961  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 62694    | 105.738 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.922 | 43   | 67713    | 100.381 | ug/l   | 91       |
| 60) Dibromochloromethane      | 11.075 | 129  | 26375    | 20.979  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 21279    | 21.629  | ug/l   | 96       |
| 64) Tetrachloroethene         | 10.810 | 164  | 26674    | 21.679  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.610 | 112  | 81865    | 21.324  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 27378    | 20.593  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.687 | 91   | 148881   | 21.188  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.792 | 106  | 114028   | 42.802  | ug/l   | 100      |
| 69) o-Xylene                  | 12.122 | 106  | 54436    | 21.242  | ug/l   | 97       |
| 70) Styrene                   | 12.139 | 104  | 91233    | 21.175  | ug/l   | 97       |
| 71) Bromoform                 | 12.304 | 173  | 14884    | 20.634  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 143627   | 20.502  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.234 | 43   | 34916    | 19.636  | ug/l   | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 25364    | 20.304  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 17876m   | 19.080  | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 31596    | 21.129  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.763 | 91   | 178295   | 20.778  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 96362    | 20.556  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 118130   | 20.910  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 7607     | 18.818  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 97999    | 20.489  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 103116   | 20.617  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 113330   | 20.624  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 157882   | 20.561  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 125666   | 20.515  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.463 | 146  | 61394    | 21.013  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 60680    | 20.791  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.786 | 91   | 125127   | 20.452  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.057 | 117  | 21778    | 20.007  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 53763    | 20.825  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 3874     | 20.181  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 33672    | 19.850  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 16342    | 19.271  | ug/l   | 96       |
| 95) Naphthalene               | 15.333 | 128  | 72218    | 20.397  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 29588    | 20.324  | ug/l   | 98       |

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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1227SBSD01

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 12/28/2022  
Supervised By :Mahesh Dadoda 12/28/2022

Quant Time: Dec 28 01:52:43 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122222S.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 23 05:54:19 2022  
Response via : Initial Calibration

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

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

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