

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD092622\  
 Data File : VD074421.D  
 Acq On : 26 Sep 2022 15:35  
 Operator : VA/SY  
 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 ICVVD092622

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 09/27/2022  
 Supervised By :mohammad ahmed 09/27/2022

Quant Time: Sep 27 03:24:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092622S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 27 03:19:14 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 66270      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 108262     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 98796      | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.510         | 152  | 49709      | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 27836      | 48.788   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.580%  |        |          |
| 35) Dibromofluoromethane     | 7.805          | 113  | 35583      | 48.744   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.480%  |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 124050     | 50.386   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 100.780% |        |          |
| 62) 4-Bromofluorobenzene     | 12.569         | 95   | 39489      | 45.391   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 90.780%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 24475      | 44.979   | ug/l   | 100      |
| 3) Chloromethane             | 2.140          | 50   | 22557      | 48.098   | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.275          | 62   | 22871      | 48.993   | ug/l   | 98       |
| 5) Bromomethane              | 2.681          | 94   | 18153      | 50.599   | ug/l   | 99       |
| 6) Chloroethane              | 2.828          | 64   | 16332      | 51.074   | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.170          | 101  | 53462      | 49.658   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.593          | 74   | 15929      | 50.188   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.958          | 101  | 37056      | 50.732   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.158          | 142  | 34377      | 44.442   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.052          | 59   | 13896      | 227.348  | ug/l # | 96       |
| 12) 1,1-Dichloroethene       | 3.934          | 96   | 33259      | 48.263   | ug/l   | 92       |
| 13) Acrolein                 | 3.793          | 56   | 8326       | 210.301  | ug/l   | 99       |
| 14) Allyl chloride           | 4.558          | 41   | 34890      | 49.101   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.252          | 53   | 33686      | 250.220  | ug/l   | 99       |
| 16) Acetone                  | 4.022          | 43   | 25408      | 229.557  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.264          | 76   | 73877      | 48.881   | ug/l   | 95       |
| 18) Methyl Acetate           | 4.558          | 43   | 15394      | 48.270   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.311          | 73   | 78040      | 52.688   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.793          | 84   | 41079      | 48.528   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.305          | 96   | 37027      | 50.554   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.211          | 45   | 85663      | 52.712   | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.152          | 43   | 200813     | 291.086  | ug/l   | 94       |
| 24) 1,1-Dichloroethane       | 6.105          | 63   | 60470      | 49.403   | ug/l   | 98       |
| 25) 2-Butanone               | 7.087          | 43   | 37683      | 248.464  | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.069          | 77   | 56357      | 49.508   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.075          | 96   | 44582      | 51.286   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.422          | 49   | 21029      | 53.929   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.446          | 42   | 22641      | 262.928  | ug/l   | 98       |
| 30) Chloroform               | 7.593          | 83   | 68899      | 50.020   | ug/l   | 95       |
| 31) Cyclohexane              | 7.875          | 56   | 44933      | 46.383   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 60804      | 51.431   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 47104      | 47.913   | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.163          | 43   | 15165      | 46.810   | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 48884      | 51.960   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.269          | 83   | 56622      | 48.603   | ug/l   | 96       |
| 40) Benzene                  | 8.252          | 78   | 141619     | 48.796   | ug/l   | 97       |

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 Sample : VSTDICV050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
 ICVVD092622

Quant Time: Sep 27 03:24:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D092622S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 27 03:19:14 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 09/27/2022  
 Supervised By :mohammad ahmed 09/27/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 9314     | 47.675  | ug/l # | 95       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 36212    | 49.732  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.357  | 43   | 32577    | 51.722  | ug/l   | 96       |
| 44) Trichloroethene           | 9.028  | 130  | 42829    | 48.248  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 34310    | 49.852  | ug/l   | 95       |
| 46) Dibromomethane            | 9.393  | 93   | 20493    | 50.402  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.581  | 83   | 51847    | 49.307  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.381  | 41   | 14923    | 53.047  | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.381  | 88   | 4257     | 930.586 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 82723    | 255.569 | ug/l   | 99       |
| 52) Toluene                   | 10.334 | 92   | 93574    | 49.884  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 45552    | 52.121  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 55140    | 49.435  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 29097    | 51.402  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 33027    | 52.007  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 46195    | 50.053  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 29985    | 280.125 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.922 | 43   | 56324    | 257.821 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.075 | 129  | 35586    | 50.193  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 27604    | 50.162  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.804 | 164  | 35503    | 46.338  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.604 | 112  | 104104   | 48.654  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.675 | 131  | 38333    | 49.491  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.681 | 91   | 182323   | 48.432  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.787 | 106  | 144918   | 98.086  | ug/l   | 99       |
| 69) o-Xylene                  | 12.116 | 106  | 67657    | 49.384  | ug/l   | 99       |
| 70) Styrene                   | 12.134 | 104  | 117475   | 49.189  | ug/l   | 98       |
| 71) Bromoform                 | 12.298 | 173  | 19980    | 46.813  | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.416 | 105  | 181777   | 49.258  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.228 | 43   | 28661    | 49.271  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 30681    | 47.652  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 21391m   | 55.018  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 43687    | 49.973  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.757 | 91   | 221784   | 49.955  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 119126   | 49.716  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.898 | 105  | 153977   | 50.435  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.463 | 75   | 8740     | 54.855  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.940 | 91   | 124564   | 50.708  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.163 | 119  | 136515   | 49.409  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 151460   | 49.831  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.340 | 105  | 205680   | 49.739  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 171660   | 49.667  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.451 | 146  | 89989    | 50.151  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.534 | 146  | 89027    | 49.565  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.781 | 91   | 160431   | 50.062  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.051 | 117  | 30128    | 49.248  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 77522    | 49.547  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.440 | 75   | 4575     | 51.886  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.092 | 180  | 49775    | 46.980  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.198 | 225  | 26390    | 45.447  | ug/l   | 97       |
| 95) Naphthalene               | 15.328 | 128  | 93880    | 48.655  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.516 | 180  | 43449    | 47.821  | ug/l   | 99       |

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Sample : VSTDICV050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 09/27/2022  
Supervised By :mohammad ahmed 09/27/2022

Quant Time: Sep 27 03:24:09 2022  
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Quant Title : SW846 8260  
QLast Update : Tue Sep 27 03:19:14 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

