

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081022\  
 Data File : VD074019.D  
 Acq On : 10 Aug 2022 11:37  
 Operator : VA/SY  
 Sample : VSTDICC020  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 08/11/2022  
 Supervised By :Mahesh Dadoda 08/11/2022

Quant Time: Aug 10 14:41:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081022S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 14:39:01 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 140702     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 228615     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 212407     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.555         | 152  | 109548     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 31699      | 22.831   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 45.660%# |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 33035      | 21.964   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 43.920%# |        |          |
| 50) Toluene-d8               | 10.326         | 98   | 115233     | 24.647   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 49.300%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 38250      | 20.226   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 40.460%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 32696      | 23.412   | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 47128      | 21.654   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.344          | 62   | 62714      | 21.181   | ug/l   | 95       |
| 5) Bromomethane              | 2.750          | 94   | 42386      | 20.540   | ug/l   | 94       |
| 6) Chloroethane              | 2.909          | 64   | 46386      | 21.831   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.262          | 101  | 59013      | 20.685   | ug/l   | 85       |
| 8) Diethyl Ether             | 3.703          | 74   | 13285      | 20.841   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.085          | 101  | 32881      | 20.323   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.291          | 142  | 34664      | 20.778   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 7043       | 99.121   | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 4.056          | 96   | 28972      | 20.856   | ug/l   | 94       |
| 13) Acrolein                 | 3.926          | 56   | 10727      | 99.220   | ug/l   | 98       |
| 14) Allyl chloride           | 4.709          | 41   | 36783      | 20.134   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.414          | 53   | 26728      | 99.293   | ug/l   | 96       |
| 16) Acetone                  | 4.150          | 43   | 22131      | 97.200   | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.403          | 76   | 93742      | 20.580   | ug/l   | 96       |
| 18) Methyl Acetate           | 4.714          | 43   | 14312      | 19.469   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.467          | 73   | 64303      | 20.480   | ug/l   | 93       |
| 20) Methylene Chloride       | 4.956          | 84   | 34235      | 20.274   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.461          | 96   | 32624      | 19.745   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.356          | 45   | 78771      | 20.461   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.303          | 43   | 207066     | 21.406   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 56900      | 20.461   | ug/l   | 96       |
| 25) 2-Butanone               | 7.208          | 43   | 35069      | 99.647   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.197          | 77   | 53158      | 20.051   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 35545      | 19.885   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.538          | 49   | 21601      | 20.129   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.555          | 42   | 21537      | 98.215   | ug/l   | 99       |
| 30) Chloroform               | 7.702          | 83   | 62982      | 19.879   | ug/l   | 97       |
| 31) Cyclohexane              | 7.979          | 56   | 47651      | 19.285   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.891          | 97   | 59596      | 19.948   | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.102          | 75   | 45050      | 19.691   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 15645      | 19.473   | ug/l   | 94       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 51989      | 20.099   | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.349          | 83   | 51084      | 19.662   | ug/l   | 96       |
| 40) Benzene                  | 8.344          | 78   | 123836     | 19.926   | ug/l   | 97       |

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 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
 VSTDICC020

Quant Time: Aug 10 14:41:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081022S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 10 14:39:01 2022  
 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :Krupa Patel 08/11/2022  
 Supervised By :Mahesh Dadoda 08/11/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 9679     | 21.691  | ug/l # | 89       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 37904    | 19.734  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.444  | 43   | 31589    | 19.671  | ug/l   | 98       |
| 44) Trichloroethene           | 9.102  | 130  | 35432    | 19.432  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 29677    | 19.835  | ug/l   | 96       |
| 46) Dibromomethane            | 9.461  | 93   | 19648    | 20.144  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.649  | 83   | 47453    | 19.843  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.449  | 41   | 13837    | 18.571  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 3674     | 402.748 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.214 | 43   | 82039    | 101.490 | ug/l   | 97       |
| 52) Toluene                   | 10.396 | 92   | 80990    | 19.519  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 39390    | 18.894  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 47639    | 19.737  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.785 | 97   | 24106    | 19.463  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 25293    | 19.662  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 38982    | 19.510  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 52296    | 97.607  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.973 | 43   | 55514    | 102.172 | ug/l   | 92       |
| 60) Dibromochloromethane      | 11.126 | 129  | 33444    | 19.838  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.232 | 107  | 24308    | 19.703  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.861 | 164  | 31843    | 19.928  | ug/l   | 90       |
| 65) Chlorobenzene             | 11.655 | 112  | 88352    | 19.743  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.726 | 131  | 31961    | 18.466  | ug/l   | 93       |
| 67) Ethyl Benzene             | 11.732 | 91   | 153241   | 19.490  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.843 | 106  | 121840   | 38.899  | ug/l   | 97       |
| 69) o-Xylene                  | 12.167 | 106  | 55362    | 19.298  | ug/l   | 99       |
| 70) Styrene                   | 12.179 | 104  | 94946    | 19.513  | ug/l   | 99       |
| 71) Bromoform                 | 12.349 | 173  | 18992    | 19.928  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.467 | 105  | 147383   | 19.459  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 29246    | 19.928  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 27104    | 19.913  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 17024m   | 10.827  | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 35419    | 19.514  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.802 | 91   | 185737   | 19.787  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 102820   | 19.570  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.943 | 105  | 127247   | 19.711  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.508 | 75   | 7621     | 20.375  | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 109071   | 19.455  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 107597   | 19.413  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 125980   | 19.456  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.385 | 105  | 166465   | 19.691  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.496 | 119  | 136579   | 19.233  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.496 | 146  | 74679    | 19.614  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 73414    | 19.309  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.826 | 91   | 130494   | 19.648  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.090 | 117  | 27591    | 19.630  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.867 | 146  | 66185    | 20.318  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 4334     | 18.432  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.137 | 180  | 36732    | 19.130  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.243 | 225  | 21829    | 19.774  | ug/l   | 98       |
| 95) Naphthalene               | 15.379 | 128  | 64651    | 19.086  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.567 | 180  | 33716    | 19.862  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 08/11/2022  
Supervised By :Mahesh Dadoda 08/11/2022

Quant Time: Aug 10 14:41:19 2022  
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Quant Title : SW846 8260  
QLast Update : Wed Aug 10 14:39:01 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

