

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063023\  
 Data File : VY014518.D  
 Acq On : 30 Jun 2023 15:48  
 Operator : KP/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY063023

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 07/03/2023  
 Supervised By :Mahesh Dadoda 07/03/2023

Quant Time: Jun 30 23:17:15 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y063023S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.782          | 168  | 413483     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 613545     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 571673     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 305381     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 197039     | 47.903   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.800%  |        |          |
| 35) Dibromofluoromethane     | 7.709          | 113  | 193108     | 51.110   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 102.220% |        |          |
| 50) Toluene-d8               | 10.178         | 98   | 752836     | 50.405   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 100.800% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 261974     | 50.512   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 101.020% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.899          | 85   | 140059     | 47.014   | ug/l   | 99       |
| 3) Chloromethane             | 2.107          | 50   | 219477     | 45.832   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.247          | 62   | 254518     | 46.111   | ug/l   | 98       |
| 5) Bromomethane              | 2.637          | 94   | 195266     | 45.622   | ug/l   | 97       |
| 6) Chloroethane              | 2.783          | 64   | 168602     | 47.439   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 311381     | 46.449   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.521          | 74   | 119511     | 47.082   | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 184633     | 46.120   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.082          | 142  | 237759     | 52.045   | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 137188     | 187.679  | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 3.862          | 96   | 185909     | 47.936   | ug/l   | 88       |
| 13) Acrolein                 | 3.722          | 56   | 112545     | 206.201  | ug/l   | 100      |
| 14) Allyl chloride           | 4.472          | 41   | 285900     | 48.909   | ug/l # | 87       |
| 15) Acrylonitrile            | 5.149          | 53   | 316499     | 217.201  | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 305115     | 237.529  | ug/l # | 88       |
| 17) Carbon Disulfide         | 4.186          | 76   | 574755     | 48.631   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.466          | 43   | 243907     | 41.712   | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.210          | 73   | 539839     | 48.432   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.710          | 84   | 240137     | 51.982   | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 217758     | 49.604   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.112          | 45   | 608308     | 50.503   | ug/l   | 88       |
| 23) Vinyl Acetate            | 6.051          | 43   | 1710020    | 245.385  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.002          | 63   | 368608     | 48.748   | ug/l   | 99       |
| 25) 2-Butanone               | 6.978          | 43   | 419622     | 220.622  | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 320509     | 49.729   | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 251114     | 50.427   | ug/l   | 90       |
| 28) Bromochloromethane       | 7.325          | 49   | 152190     | 47.932   | ug/l # | 83       |
| 29) Tetrahydrofuran          | 7.337          | 42   | 263106     | 214.461  | ug/l # | 87       |
| 30) Chloroform               | 7.496          | 83   | 387834     | 49.169   | ug/l   | 98       |
| 31) Cyclohexane              | 7.782          | 56   | 297138     | 46.045   | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.691          | 97   | 327028     | 48.504   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.910          | 75   | 286709     | 49.552   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.069          | 43   | 173999     | 43.850   | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 7.892          | 117  | 296779     | 49.135   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.179          | 83   | 343404     | 49.654   | ug/l   | 94       |
| 40) Benzene                  | 8.154          | 78   | 870781     | 49.718   | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 87070m   | 44.915  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 246263   | 47.837  | ug/l   | 92       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 305021   | 45.360  | ug/l # | 90       |
| 44) Trichloroethene           | 8.935  | 130  | 244641   | 50.102  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 221405   | 49.277  | ug/l   | 97       |
| 46) Dibromomethane            | 9.300  | 93   | 129965   | 47.513  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.489  | 83   | 297218   | 49.315  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.288  | 41   | 147569   | 48.257  | ug/l # | 80       |
| 49) 1,4-Dioxane               | 9.294  | 88   | 42097    | 861.860 | ug/l # | 63       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 872748   | 219.223 | ug/l   | 88       |
| 52) Toluene                   | 10.239 | 92   | 559487   | 50.762  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 321028   | 49.811  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.922  | 75   | 364025   | 50.623  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 190628   | 47.895  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 262335   | 48.453  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 312921   | 48.252  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 634133   | 241.765 | ug/l   | 95       |
| 59) 2-Hexanone                | 10.831 | 43   | 640932   | 222.873 | ug/l   | 86       |
| 60) Dibromochloromethane      | 10.977 | 129  | 229929   | 49.301  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 186518   | 48.000  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 247134   | 48.359  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 608746   | 49.967  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 232651   | 50.244  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.587 | 91   | 1068133  | 51.413  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 853338   | 103.549 | ug/l   | 93       |
| 69) o-Xylene                  | 12.026 | 106  | 403594   | 51.636  | ug/l   | 95       |
| 70) Styrene                   | 12.044 | 104  | 693620   | 51.579  | ug/l   | 96       |
| 71) Bromoform                 | 12.202 | 173  | 166294   | 47.272  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.324 | 105  | 1045776  | 52.288  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.141 | 43   | 281811   | 46.686  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.580 | 83   | 235860   | 45.954  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 161511m  | 45.070  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 277605   | 50.819  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.666 | 91   | 1274384  | 52.235  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 726212   | 51.723  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 896823   | 52.968  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 85742    | 46.571  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 754913   | 51.322  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 784884   | 52.746  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 895102   | 52.978  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 1148100  | 52.286  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 988236   | 53.479  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 546361   | 51.154  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 539635   | 50.415  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 900745   | 52.745  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.958 | 117  | 185274   | 50.616  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 491084   | 50.760  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.354 | 75   | 40643    | 43.253  | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 337892   | 54.073  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.110 | 225  | 202753   | 52.793  | ug/l   | 97       |
| 95) Naphthalene               | 15.232 | 128  | 672514   | 50.585  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.421 | 180  | 302977   | 53.214  | ug/l   | 99       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

