

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021924\  
 Data File : VY017410.D  
 Acq On : 19 Feb 2024 17:49  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/20/2024  
 Supervised By :Semsettin Yesilyurt 02/20/2024

Quant Time: Feb 20 06:07:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y021924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 20 05:58:22 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 163613              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 259260              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 225550              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 108990              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 72100               | 51.584  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.160% |         |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 78939               | 52.015  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 104.040% |         |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 317581              | 53.957  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 107.920% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 97564               | 49.711  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 99.420%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 57140               | 43.797  | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 129902              | 48.787  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 159331              | 45.961  | ug/l   | 98       |
| 5) Bromomethane              | 2.656          | 94   | 123793              | 48.506  | ug/l   | 97       |
| 6) Chloroethane              | 2.802          | 64   | 99084               | 44.867  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 134324              | 45.180  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.534          | 74   | 37866               | 45.061  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 75462               | 43.912  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.101          | 142  | 87737               | 47.975  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.984          | 59   | 18973               | 174.578 | ug/l # | 80       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 72305               | 44.765  | ug/l   | 96       |
| 13) Acrolein                 | 3.741          | 56   | 29710               | 204.285 | ug/l   | 97       |
| 14) Allyl chloride           | 4.491          | 41   | 88283               | 45.093  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.173          | 53   | 72676               | 217.537 | ug/l   | 99       |
| 16) Acetone                  | 3.966          | 43   | 65768               | 217.267 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.204          | 76   | 228160              | 44.463  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.491          | 43   | 30907               | 45.026  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 163717              | 44.872  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.728          | 84   | 87150               | 46.425  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 83787               | 44.849  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.131          | 45   | 206619              | 45.886  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.076          | 43   | 607587              | 227.045 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 135772              | 44.474  | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 91786               | 216.014 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 117190              | 44.613  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 93250               | 44.940  | ug/l   | 100      |
| 28) Bromochloromethane       | 7.344          | 49   | 57512               | 50.211  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 54928               | 219.901 | ug/l   | 99       |
| 30) Chloroform               | 7.515          | 83   | 143005              | 44.375  | ug/l   | 99       |
| 31) Cyclohexane              | 7.795          | 56   | 121230              | 43.813  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 125954              | 44.250  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 113950              | 44.957  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.082          | 43   | 39355               | 42.642  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 114252              | 45.275  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.191          | 83   | 143678              | 46.310  | ug/l   | 97       |
| 40) Benzene                  | 8.167          | 78   | 335040              | 45.243  | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Feb 20 05:58:22 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 22437    | 49.780  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 79421    | 44.183  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 75347    | 45.177  | ug/l   | 100      |
| 44) Trichloroethene           | 8.947  | 130  | 89705    | 44.690  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 77987    | 45.558  | ug/l   | 100      |
| 46) Dibromomethane            | 9.313  | 93   | 42935    | 44.128  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.502  | 83   | 108544   | 45.374  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.301  | 41   | 36067    | 46.091  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 8906     | 875.165 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 203545   | 226.496 | ug/l   | 100      |
| 52) Toluene                   | 10.252 | 92   | 212689   | 46.006  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 101617   | 45.875  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 123098   | 45.296  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 59591    | 44.513  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 71502    | 42.898  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 100040   | 45.164  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 210076   | 262.631 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 144211   | 232.977 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 71592    | 44.987  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 56635    | 45.219  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.727 | 164  | 80271    | 44.469  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.526 | 112  | 217878   | 44.840  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 80886    | 44.702  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.599 | 91   | 403274   | 46.405  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 318355   | 93.188  | ug/l   | 100      |
| 69) o-Xylene                  | 12.038 | 106  | 146207   | 46.650  | ug/l   | 99       |
| 70) Styrene                   | 12.050 | 104  | 245257   | 47.645  | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 42485    | 45.128  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.337 | 105  | 386929   | 45.960  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.148 | 43   | 67698    | 46.182  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 65797    | 43.729  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 48507m   | 45.777  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 87173    | 44.150  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.678 | 91   | 470199   | 46.175  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 252783   | 45.083  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 315152   | 46.801  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 20429    | 45.073  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 260033   | 44.941  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 270100   | 45.934  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.129 | 105  | 312149   | 46.791  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 421629   | 46.684  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 348622   | 46.866  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 178365   | 44.732  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.452 | 146  | 172142   | 44.711  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 319776   | 47.266  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.965 | 117  | 65025    | 44.611  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 150591   | 44.868  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 8484     | 44.609  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 82792    | 47.177  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 47974    | 44.947  | ug/l   | 98       |
| 95) Naphthalene               | 15.245 | 128  | 141057   | 43.752  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 69621    | 47.189  | ug/l   | 100      |

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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

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