

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011422\  
 Data File : VY007156.D  
 Acq On : 14 Jan 2022 09:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/17/2022  
 Supervised By : Mahesh Dadoda 01/17/2022

Quant Time: Jan 14 13:45:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y011322S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 14 05:48:29 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 137759              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 229030              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 204468              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 92989               | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 85307               | 50.468  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 100.940% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 76717               | 49.537  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 99.080%  |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 279702              | 49.428  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 98.860%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 101048              | 50.200  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 100.400% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 25563               | 52.921  | ug/l   | 91       |
| 3) Chloromethane             | 2.119          | 50   | 45492               | 44.910  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.260          | 62   | 76185               | 51.675  | ug/l   | 99       |
| 5) Bromomethane              | 2.662          | 94   | 51123               | 53.551  | ug/l   | 98       |
| 6) Chloroethane              | 2.802          | 64   | 46434               | 50.479  | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 73073               | 45.990  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.528          | 74   | 46174               | 52.774  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 76749               | 49.578  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.089          | 142  | 115752              | 50.555  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 40805               | 283.767 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 77555               | 49.752  | ug/l   | 95       |
| 13) Acrolein                 | 3.729          | 56   | 8102                | 232.855 | ug/l   | 99       |
| 14) Allyl chloride           | 4.479          | 41   | 130082              | 52.044  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.162          | 53   | 116447              | 276.925 | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 123415              | 281.332 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.198          | 76   | 216421              | 49.994  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.473          | 43   | 79669               | 51.040  | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 161152              | 52.512  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.716          | 84   | 85543               | 47.158  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 84792               | 50.174  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.119          | 45   | 267260              | 52.780  | ug/l   | 99       |
| 23) Vinyl Acetate            | 6.058          | 43   | 839738              | 281.993 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 158314              | 51.396  | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 162211              | 286.000 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 112434              | 50.085  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 97853               | 51.044  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.338          | 49   | 66161               | 59.380  | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 104034              | 285.345 | ug/l   | 96       |
| 30) Chloroform               | 7.509          | 83   | 166526              | 52.032  | ug/l   | 98       |
| 31) Cyclohexane              | 7.789          | 56   | 137612              | 48.155  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 140925              | 51.516  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 125619              | 50.788  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.070          | 43   | 71543               | 56.362  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 132899              | 51.083  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 152191              | 50.395  | ug/l   | 98       |
| 40) Benzene                  | 8.161          | 78   | 340214              | 51.565  | ug/l   | 97       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 37706    | 51.583   | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 112637   | 54.214   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 138009   | 55.876   | ug/l   | 97       |
| 44) Trichloroethene           | 8.941  | 130  | 91631    | 51.323   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 87321    | 52.045   | ug/l   | 95       |
| 46) Dibromomethane            | 9.307  | 93   | 52855    | 53.272   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 130236   | 53.395   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 61755    | 54.971   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 12449    | 1163.704 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 358435   | 286.210  | ug/l   | 96       |
| 52) Toluene                   | 10.246 | 92   | 217470   | 52.000   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 140639   | 54.622   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 153259   | 53.176   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 70806    | 52.613   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 105815   | 55.812   | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 125612   | 53.548   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 208946   | 242.367  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.831 | 43   | 244853   | 288.090  | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.984 | 129  | 88901    | 53.737   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 71654    | 54.196   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.721 | 164  | 72924    | 49.480   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.520 | 112  | 229410   | 51.313   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 85768    | 51.752   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 433910   | 51.638   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 320208   | 102.543  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 152980   | 52.022   | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 263727   | 53.161   | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 52381    | 54.641   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 408407   | 50.850   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 122949   | 57.247   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 84925    | 54.378   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 70168m   | 66.176   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 90727    | 51.915   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.672 | 91   | 506393   | 50.862   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 284771   | 51.443   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 333402   | 50.557   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 32450    | 56.027   | ug/l # | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 297291   | 51.484   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.081 | 119  | 296407   | 52.018   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 333495   | 51.020   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 431627   | 50.632   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 357103   | 50.975   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 176040   | 51.464   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 175041   | 50.890   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.697 | 91   | 356600   | 51.698   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 70408    | 51.409   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 155208   | 50.996   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 13942    | 51.687   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 97237    | 52.537   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 47975    | 50.295   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 213113   | 54.213   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 83188    | 52.683   | 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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