

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051822\  
 Data File : VY008806.D  
 Acq On : 18 May 2022 11:11  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: May 19 03:08:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051722S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 18 07:32:50 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin  
 Yesilyurt  
 05/23/2022  
 Supervised By :Mahesh  
 Dadoda  
 05/23/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 167580              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 272289              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 276831              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 176887              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 87258               | 56.127  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 112.260% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 83891               | 52.731  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.460% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 363469              | 51.310  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 102.620% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 138770              | 54.641  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 109.280% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 52556               | 50.476  | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 81034               | 54.399  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.253          | 62   | 120076              | 53.376  | ug/l   | 99       |
| 5) Bromomethane              | 2.644          | 94   | 104106              | 53.350  | ug/l   | 98       |
| 6) Chloroethane              | 2.790          | 64   | 89764               | 52.034  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 120238              | 53.971  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.528          | 74   | 38958               | 52.468  | ug/l   | 79       |
| 9) 1,1,2-Trichlorotrifluo... | 3.900          | 101  | 75353               | 55.038  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.089          | 142  | 89636               | 51.629  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 35190               | 204.807 | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 66939               | 47.075  | ug/l   | 90       |
| 13) Acrolein                 | 3.735          | 56   | 12907               | 151.849 | ug/l   | 97       |
| 14) Allyl chloride           | 4.479          | 41   | 105116              | 50.256  | ug/l # | 88       |
| 15) Acrylonitrile            | 5.162          | 53   | 109815              | 218.101 | ug/l   | 99       |
| 16) Acetone                  | 3.942          | 43   | 79660               | 227.240 | ug/l   | 93       |
| 17) Carbon Disulfide         | 4.192          | 76   | 185548              | 50.942  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.473          | 43   | 49317               | 44.112  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 216369              | 56.497  | ug/l   | 95       |
| 20) Methylene Chloride       | 4.710          | 84   | 83280               | 52.274  | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 85316               | 48.933  | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.119          | 45   | 265620              | 59.965  | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.058          | 43   | 880133              | 281.806 | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 154837              | 52.680  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 146830              | 225.053 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 150183              | 53.760  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 101388              | 52.429  | ug/l   | 89       |
| 28) Bromochloromethane       | 7.332          | 49   | 55886               | 50.153  | ug/l # | 86       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 99186               | 228.215 | ug/l # | 84       |
| 30) Chloroform               | 7.503          | 83   | 170670              | 54.159  | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 137434              | 56.357  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 155337              | 53.166  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 127870              | 50.183  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.070          | 43   | 67933               | 44.739  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 138766              | 50.816  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.185          | 83   | 163539              | 54.120  | ug/l   | 88       |
| 40) Benzene                  | 8.161          | 78   | 374556              | 52.534  | ug/l   | 97       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 42864m   | 53.678  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 112853   | 53.923  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 135938   | 53.778  | ug/l # | 92       |
| 44) Trichloroethene           | 8.935  | 130  | 102133   | 52.661  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 96757    | 57.102  | ug/l   | 95       |
| 46) Dibromomethane            | 9.307  | 93   | 58810    | 52.819  | ug/l   | 94       |
| 47) Bromodichloromethane      | 9.496  | 83   | 138673   | 56.181  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.289  | 41   | 62183    | 56.025  | ug/l # | 87       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 15798    | 944.624 | ug/l # | 81       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 385605   | 258.405 | ug/l   | 90       |
| 52) Toluene                   | 10.246 | 92   | 284647   | 58.754  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 153790   | 59.984  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 158667   | 57.390  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 87876    | 58.039  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 115426   | 62.835  | ug/l # | 82       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 140342   | 56.371  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 257718   | 275.123 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 274462   | 257.415 | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.984 | 129  | 107815   | 59.316  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 84773    | 56.144  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 88923    | 50.181  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.520 | 112  | 301248   | 53.768  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 118598   | 57.941  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 566037   | 56.572  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.703 | 106  | 479666   | 120.336 | ug/l   | 90       |
| 69) o-Xylene                  | 12.032 | 106  | 220284   | 59.810  | ug/l   | 92       |
| 70) Styrene                   | 12.044 | 104  | 394826   | 63.327  | ug/l   | 94       |
| 71) Bromoform                 | 12.209 | 173  | 77895    | 56.059  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 615316   | 50.720  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 146358   | 50.543  | ug/l # | 85       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 122029   | 45.246  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 108036m  | 52.873  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 138162   | 49.150  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.672 | 91   | 760129   | 51.003  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 416437   | 51.588  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 533008   | 54.416  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 43517    | 46.584  | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 462552   | 54.240  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 468852   | 53.225  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 540612   | 55.752  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 747725   | 54.406  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 632068   | 56.403  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 315952   | 53.493  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 313413   | 53.646  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.697 | 91   | 575168   | 54.072  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 110502   | 52.154  | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 279082   | 54.032  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 18798    | 40.764  | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 149989   | 53.177  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 80412    | 49.544  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 313807   | 49.768  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 131216   | 52.957  | ug/l   | 99       |

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Manual Integrations  
APPROVED

Reviewed By :Semsettin  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

