

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY041822\  
 Data File : VY008386.D  
 Acq On : 18 Apr 2022 20:13  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2022  
 Supervised By : Mahesh Dadoda 04/20/2022

Quant Time: Apr 19 06:33:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y040822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 16:02:50 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 168994     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 268279     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 246249     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 126324     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 63261      | 39.852  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 79.700% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 74604      | 48.146  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.300% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 239169     | 45.108  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 90.220% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 91354      | 45.808  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 91.620% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 54316      | 38.811  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 58704      | 35.421  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.253          | 62   | 82949      | 34.454  | ug/l   | 96       |
| 5) Bromomethane              | 2.650          | 94   | 78990      | 41.466  | ug/l   | 96       |
| 6) Chloroethane              | 2.796          | 64   | 62059      | 36.803  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 136486     | 47.644  | ug/l   | 92       |
| 8) Diethyl Ether             | 3.528          | 74   | 46719      | 45.127  | ug/l   | 62       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 87150      | 46.834  | ug/l   | 92       |
| 10) Methyl Iodide            | 4.088          | 142  | 95739      | 46.228  | ug/l   | 89       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 45920      | 270.586 | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 75527      | 45.312  | ug/l # | 68       |
| 13) Acrolein                 | 3.729          | 56   | 25271      | 189.119 | ug/l   | 95       |
| 14) Allyl chloride           | 4.479          | 41   | 81024      | 37.246  | ug/l # | 82       |
| 15) Acrylonitrile            | 5.161          | 53   | 109725     | 216.692 | ug/l   | 96       |
| 16) Acetone                  | 3.948          | 43   | 77006      | 201.688 | ug/l # | 83       |
| 17) Carbon Disulfide         | 4.198          | 76   | 156669     | 35.628  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.479          | 43   | 43768      | 47.024  | ug/l # | 72       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 239515     | 46.563  | ug/l   | 91       |
| 20) Methylene Chloride       | 4.710          | 84   | 94911      | 46.511  | ug/l # | 73       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 86795      | 43.461  | ug/l # | 72       |
| 22) Diisopropyl ether        | 6.119          | 45   | 207474     | 40.425  | ug/l # | 89       |
| 23) Vinyl Acetate            | 6.058          | 43   | 699481     | 210.338 | ug/l # | 81       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 142378     | 43.218  | ug/l # | 96       |
| 25) 2-Butanone               | 6.984          | 43   | 128789     | 215.720 | ug/l # | 70       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 135940     | 44.808  | ug/l   | 91       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 111600     | 47.098  | ug/l   | 75       |
| 28) Bromochloromethane       | 7.332          | 49   | 53973      | 42.742  | ug/l # | 40       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 83310      | 216.134 | ug/l # | 64       |
| 30) Chloroform               | 7.509          | 83   | 171864     | 46.720  | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 104504     | 36.406  | ug/l # | 74       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 152726     | 47.460  | ug/l # | 93       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 115173     | 46.546  | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.076          | 43   | 59057      | 46.288  | ug/l # | 87       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 136943     | 51.444  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 142734     | 44.833  | ug/l # | 79       |
| 40) Benzene                  | 8.161          | 78   | 346692     | 47.052  | ug/l   | 96       |

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 ALS Vial : 25 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Fri Apr 08 16:02:50 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 29286m   | 41.030   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 99768    | 46.671   | ug/l   | 85       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 112544   | 47.529   | ug/l # | 80       |
| 44) Trichloroethene           | 8.941  | 130  | 109172   | 51.988   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 83411    | 46.340   | ug/l   | 96       |
| 46) Dibromomethane            | 9.307  | 93   | 59281    | 49.760   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 134699   | 50.275   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 47471    | 47.160   | ug/l # | 68       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 16354    | 1063.731 | ug/l # | 71       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 301823   | 246.852  | ug/l # | 81       |
| 52) Toluene                   | 10.246 | 92   | 231652   | 47.717   | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 133576   | 48.920   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 150303   | 48.792   | ug/l # | 80       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 87298    | 51.370   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 107533   | 51.611   | ug/l # | 70       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 135048   | 49.486   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 169225   | 206.195  | ug/l # | 82       |
| 59) 2-Hexanone                | 10.831 | 43   | 209625   | 249.161  | ug/l   | 77       |
| 60) Dibromochloromethane      | 10.984 | 129  | 108937   | 54.877   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 86129    | 51.837   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 89921    | 51.810   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 277892   | 52.037   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 109899   | 55.149   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 454313   | 50.026   | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.703 | 106  | 364562   | 100.937  | ug/l   | 88       |
| 69) o-Xylene                  | 12.032 | 106  | 181798   | 51.869   | ug/l   | 87       |
| 70) Styrene                   | 12.044 | 104  | 300720   | 52.024   | ug/l   | 93       |
| 71) Bromoform                 | 12.209 | 173  | 69861    | 58.159   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 476678   | 50.754   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 100703   | 49.387   | ug/l # | 79       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 103262   | 51.961   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 72978m   | 52.235   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 120469   | 52.344   | ug/l   | 84       |
| 78) n-propylbenzene           | 12.672 | 91   | 539552   | 48.685   | ug/l   | 94       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 304035   | 48.883   | ug/l   | 91       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 386617   | 50.201   | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 31059    | 49.741   | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 308231   | 48.224   | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 360324   | 52.153   | ug/l   | 91       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 389411   | 51.094   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 514457   | 50.226   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 435315   | 50.929   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 232873   | 51.090   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 233409   | 51.740   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 379146   | 49.096   | ug/l   | 97       |
| 90) Hexachloroethane          | 13.965 | 117  | 84947    | 53.173   | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 212067   | 52.295   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 15215    | 53.511   | ug/l   | 59       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 126960   | 52.933   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 65207    | 53.550   | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 288621   | 56.176   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 113430   | 54.042   | 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

