

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030624\  
 Data File : VY017580.D  
 Acq On : 06 Mar 2024 09:20  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/07/2024  
 Supervised By : Mahesh Dadoda 03/07/2024

Quant Time: Mar 07 02:03:16 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 149184     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 223820     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 199777     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 100307     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 65715      | 46.479   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 92.960%  |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 77811      | 49.890   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.780%  |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 296922     | 54.450   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 108.900% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 91042      | 53.124   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 106.240% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 51559      | 46.852   | ug/l   | 100      |
| 3) Chloromethane             | 2.113          | 50   | 90052      | 44.786   | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.247          | 62   | 121769     | 47.206   | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 100086     | 47.612   | ug/l   | 95       |
| 6) Chloroethane              | 2.790          | 64   | 79616      | 48.926   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 123870     | 47.116   | ug/l   | 92       |
| 8) Diethyl Ether             | 3.527          | 74   | 36232      | 46.988   | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 74464      | 49.242   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.088          | 142  | 90602      | 53.387   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 19915      | 165.822  | ug/l # | 96       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 71087      | 50.442   | ug/l   | 97       |
| 13) Acrolein                 | 3.729          | 56   | 28386      | 179.129  | ug/l   | 100      |
| 14) Allyl chloride           | 4.479          | 41   | 83997      | 49.328   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.155          | 53   | 71169      | 224.522  | ug/l   | 100      |
| 16) Acetone                  | 3.942          | 43   | 74941      | 273.276  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.192          | 76   | 220468     | 52.119   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.479          | 43   | 32924      | 49.487   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 153713     | 46.796   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.716          | 84   | 79181      | 49.040   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 82668      | 50.100   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.119          | 45   | 193630     | 49.277   | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.058          | 43   | 554692     | 236.894  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 131238     | 48.887   | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 95941      | 245.489  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 112500     | 49.844   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 92975      | 50.184   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.338          | 49   | 54278      | 51.338   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 53548      | 227.296  | ug/l   | 98       |
| 30) Chloroform               | 7.508          | 83   | 141368     | 49.462   | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 110761     | 48.138   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 123165     | 49.636   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 109851     | 52.203   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076          | 43   | 37214      | 44.776   | ug/l # | 97       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 112675     | 53.426   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 135145     | 53.440   | ug/l   | 99       |
| 40) Benzene                  | 8.161          | 78   | 326456     | 52.239   | ug/l   | 97       |

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 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 21452m   | 51.435  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 74748    | 49.024  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 68541    | 46.930  | ug/l # | 86       |
| 44) Trichloroethene           | 8.941  | 130  | 91933    | 51.039  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 76143    | 51.213  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 42138    | 49.522  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 105447   | 51.039  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 33250    | 49.184  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 8962     | 930.666 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 189599   | 232.928 | ug/l   | 99       |
| 52) Toluene                   | 10.246 | 92   | 208314   | 52.877  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 95989    | 50.056  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 120003   | 51.501  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 59954    | 49.626  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 67023    | 45.345  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 96204    | 48.978  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 162383   | 232.928 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.837 | 43   | 145352   | 259.972 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 73507    | 51.432  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 55121    | 49.510  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.727 | 164  | 90759    | 47.332  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.520 | 112  | 218359   | 51.495  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 81877    | 51.540  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 390857   | 52.558  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.709 | 106  | 311107   | 106.465 | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 145372   | 53.623  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 241758   | 53.724  | ug/l   | 98       |
| 71) Bromoform                 | 12.215 | 173  | 43996    | 49.977  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.331 | 105  | 379764   | 50.960  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 60272    | 45.857  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 61913    | 48.381  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 41288m   | 43.321  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 89476    | 49.580  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 455007   | 50.885  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 243990   | 48.736  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 306836   | 51.393  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 19538    | 47.105  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 252497   | 49.310  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 269220   | 51.351  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 302798   | 51.372  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.257 | 105  | 404091   | 50.413  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 337326   | 51.409  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 179799   | 49.636  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 174251   | 49.479  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.703 | 91   | 299918   | 50.098  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 64613    | 49.118  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 151544   | 49.459  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 7894     | 43.879  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 80958    | 50.023  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 48991    | 49.029  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 132596   | 42.887  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 67357    | 48.514  | 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

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