

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020924\  
 Data File : VY017349.D  
 Acq On : 09 Feb 2024 19:05  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/12/2024  
 Supervised By :Semsettin Yesilyurt 02/12/2024

Quant Time: Feb 09 22:08:29 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020124S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 02 00:56:04 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 105987              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.703          | 114  | 178997              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 160989              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 73586               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.155          | 65   | 53198               | 56.186  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 112.380% |         |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 54980               | 56.887  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 113.780% |         |        |          |
| 50) Toluene-d8               | 10.191         | 98   | 197230              | 56.050  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 112.100% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 66740               | 57.898  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 115.800% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 43994               | 54.755  | ug/l   | 97       |
| 3) Chloromethane             | 2.119          | 50   | 83663               | 57.964  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 99193               | 56.394  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 71332               | 58.505  | ug/l   | 90       |
| 6) Chloroethane              | 2.796          | 64   | 66357               | 58.428  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 104082              | 57.546  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.540          | 74   | 36451               | 64.070  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 63531               | 57.945  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.101          | 142  | 72319               | 62.742  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 26063               | 332.488 | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 60877               | 59.257  | ug/l   | 97       |
| 13) Acrolein                 | 3.735          | 56   | 20899               | 267.195 | ug/l   | 99       |
| 14) Allyl chloride           | 4.491          | 41   | 95043               | 61.195  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.173          | 53   | 84972               | 331.722 | ug/l   | 100      |
| 16) Acetone                  | 3.954          | 43   | 73205               | 263.058 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.204          | 76   | 187119              | 57.058  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491          | 43   | 45493               | 73.281  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 161230              | 65.163  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.728          | 84   | 77288               | 69.153  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 71565               | 61.234  | ug/l   | 100      |
| 22) Diisopropyl ether        | 6.131          | 45   | 214823              | 62.985  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.070          | 43   | 653005              | 315.979 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 126129              | 60.367  | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 111312              | 300.888 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 97151               | 55.901  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.002          | 96   | 81960               | 62.701  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.344          | 49   | 39863               | 49.828  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 71508               | 342.176 | ug/l   | 100      |
| 30) Chloroform               | 7.521          | 83   | 130058              | 61.878  | ug/l   | 98       |
| 31) Cyclohexane              | 7.795          | 56   | 104154              | 54.576  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.716          | 97   | 108651              | 60.097  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 97756               | 58.638  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.088          | 43   | 48189               | 62.323  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 95825               | 60.034  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.197          | 83   | 113314              | 58.181  | ug/l   | 96       |
| 40) Benzene                  | 8.173          | 78   | 296438              | 62.267  | ug/l   | 99       |

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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         | 7.326  | 41   | 24471m   | 66.798   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 78501    | 62.278   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 88886    | 64.939   | ug/l   | 99       |
| 44) Trichloroethene           | 8.953  | 130  | 75519    | 62.491   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.228  | 63   | 72898    | 62.339   | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 40443    | 64.026   | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.508  | 83   | 99227    | 62.769   | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.301  | 41   | 40891    | 63.691   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 9776     | 1421.890 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 254756   | 347.213  | ug/l   | 100      |
| 52) Toluene                   | 10.252 | 92   | 179761   | 62.556   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 96536    | 65.013   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 113191   | 63.642   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 56087    | 65.261   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 73260    | 62.554   | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.794 | 76   | 96322    | 65.163   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.795  | 63   | 155150   | 289.780  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.837 | 43   | 175205   | 330.230  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.996 | 129  | 65434    | 64.900   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 52622    | 65.836   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.727 | 164  | 67382    | 64.447   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.526 | 112  | 188499   | 60.697   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 70565    | 62.524   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.599 | 91   | 346651   | 61.761   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.709 | 106  | 263094   | 123.518  | ug/l   | 100      |
| 69) o-Xylene                  | 12.038 | 106  | 124607   | 63.526   | ug/l   | 99       |
| 70) Styrene                   | 12.050 | 104  | 209524   | 64.830   | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 39243    | 66.394   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.337 | 105  | 322623   | 59.680   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 78302    | 64.464   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 65505    | 61.608   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 46196m   | 68.017   | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 73321    | 61.147   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.678 | 91   | 395683   | 59.596   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 219300   | 60.080   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 260737   | 60.645   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 19654    | 60.128   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 227076   | 60.445   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 226833   | 61.550   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 262003   | 61.739   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 344709   | 59.845   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 281135   | 61.078   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 145694   | 60.906   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.452 | 146  | 142539   | 61.334   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.702 | 91   | 265138   | 60.585   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 56280    | 59.560   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 128343   | 63.024   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 8782     | 63.410   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 66974    | 66.212   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 36779    | 61.737   | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 136955   | 64.878   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 58444    | 67.936   | ug/l   | 98       |

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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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