

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062424\  
 Data File : VY018673.D  
 Acq On : 24 Jun 2024 14:08  
 Operator : SY/MD  
 Sample : VY0624SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0624SBS01

Quant Time: Jun 25 01:07:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y061324S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 14 07:08:24 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.777  | 168   | 146536   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.679  | 114   | 236887   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.483 | 117   | 210378   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422 | 152   | 104063   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.130  | 65    | 70763    | 47.965   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | =      | 95.920%  |
| 35) Dibromofluoromethane     | 7.704  | 113   | 77522    | 53.646   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | =      | 107.300% |
| 50) Toluene-d8               | 10.173 | 98    | 294529   | 53.000   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 134 | Recovery | =      | 106.000% |
| 62) 4-Bromofluorobenzene     | 12.477 | 95    | 92692    | 52.822   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 30 - 143 | Recovery | =      | 105.640% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.894  | 85    | 18676    | 19.351   | ug/l   | 90       |
| 3) Chloromethane             | 2.101  | 50    | 26482    | 13.323   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.241  | 62    | 36127    | 14.676   | ug/l   | 100      |
| 5) Bromomethane              | 2.625  | 94    | 27452    | 15.004   | ug/l   | 99       |
| 6) Chloroethane              | 2.778  | 64    | 26432    | 16.391   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.101  | 101   | 52155    | 19.675   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.515  | 74    | 13651    | 18.061   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.869  | 101   | 28562    | 20.622   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.070  | 142   | 27941    | 17.147   | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.936  | 59    | 14550    | 54.829   | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 3.851  | 96    | 25101    | 18.034   | ug/l   | 95       |
| 13) Acrolein                 | 3.723  | 56    | 5406     | 63.365   | ug/l   | 96       |
| 14) Allyl chloride           | 4.460  | 41    | 31265    | 16.662   | ug/l   | 99       |
| 15) Acrylonitrile            | 5.143  | 53    | 31429    | 93.473   | ug/l   | 98       |
| 16) Acetone                  | 3.930  | 43    | 25946    | 86.442   | ug/l # | 82       |
| 17) Carbon Disulfide         | 4.168  | 76    | 44762    | 12.352   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.454  | 43    | 12790    | 16.799   | ug/l   | 96       |
| 19) Methyl tert-butyl Ether  | 5.198  | 73    | 69444    | 18.704   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.698  | 84    | 40414    | 15.702   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.204  | 96    | 27900    | 17.609   | ug/l   | 85       |
| 22) Diisopropyl ether        | 6.100  | 45    | 79413    | 18.747   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.039  | 43    | 234257   | 73.095   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 5.997  | 63    | 50666    | 18.565   | ug/l   | 94       |
| 25) 2-Butanone               | 6.972  | 43    | 40526    | 90.074   | ug/l   | 91       |
| 26) 2,2-Dichloropropane      | 6.966  | 77    | 43113    | 18.750   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.966  | 96    | 36062    | 18.843   | ug/l   | 98       |
| 28) Bromochloromethane       | 7.319  | 49    | 19528    | 17.458   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.344  | 42    | 23932    | 86.677   | ug/l   | 99       |
| 30) Chloroform               | 7.490  | 83    | 57035    | 19.176   | ug/l   | 99       |
| 31) Cyclohexane              | 7.771  | 56    | 37410    | 16.554   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 7.691  | 97    | 49091    | 19.429   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.905  | 75    | 36483    | 18.342   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.057  | 43    | 17586    | 18.755   | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.893  | 117   | 42974    | 20.593   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.173  | 83    | 44963    | 18.449   | ug/l   | 96       |
| 40) Benzene                  | 8.149  | 78    | 117792   | 19.148   | ug/l   | 98       |

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|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.289  | 41   | 8628     | 18.296  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.228  | 62   | 30069    | 18.736  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.264  | 43   | 32725    | 18.699  | ug/l   | 97       |
| 44) Trichloroethene           | 8.935  | 130  | 32310    | 20.062  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.209  | 63   | 27280    | 19.394  | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 16623    | 19.046  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.490  | 83   | 43203    | 20.740  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.289  | 41   | 14438    | 18.325  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.282  | 88   | 3876     | 337.673 | ug/l # | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.063 | 43   | 90003    | 97.634  | ug/l   | 98       |
| 52) Toluene                   | 10.240 | 92   | 77184    | 19.543  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 34487    | 18.945  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 42629    | 19.405  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 23846    | 20.542  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 30412    | 20.020  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.782 | 76   | 37424    | 19.407  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.776  | 63   | 69719    | 95.071  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.825 | 43   | 64136    | 99.325  | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.977 | 129  | 29978    | 20.788  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.081 | 107  | 22461    | 20.936  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 31507    | 20.998  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.514 | 112  | 90386    | 20.798  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 30762    | 21.122  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.587 | 91   | 150834   | 20.002  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.697 | 106  | 118638   | 40.432  | ug/l   | 99       |
| 69) o-Xylene                  | 12.026 | 106  | 58073    | 20.581  | ug/l   | 95       |
| 70) Styrene                   | 12.038 | 104  | 98005    | 21.024  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 16450    | 20.585  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.325 | 105  | 152816   | 20.110  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 30868    | 19.837  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 27161    | 20.130  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 17717m   | 18.150  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 35659    | 20.291  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.666 | 91   | 179749   | 20.212  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 100915   | 20.102  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 124346   | 20.647  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 7778     | 20.871  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 103793   | 20.532  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 115930   | 20.798  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 122863   | 20.411  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 167225   | 21.035  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 140784   | 20.889  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 72078    | 20.335  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 72866    | 20.949  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 131918   | 21.716  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.958 | 117  | 26190    | 21.391  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 65783    | 21.725  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 3740     | 19.142  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 37906    | 22.470  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 20629    | 23.800  | ug/l   | 100      |
| 95) Naphthalene               | 15.239 | 128  | 64854    | 20.572  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 31574    | 22.152  | ug/l   | 98       |

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

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