

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY021622\  
 Data File : VY007509.D  
 Acq On : 16 Feb 2022 13:46  
 Operator : SY/MD  
 Sample : VY0216SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0216SBS01

Quant Time: Feb 17 02:55:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y021422S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 15 09:34:50 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/17/2022  
 Supervised By : Mahesh Dadoda 02/21/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 114737     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 188264     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 170213     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 78184      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 60755      | 47.961  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.920% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 55527      | 46.770  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 93.540% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 198206     | 43.955  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 87.900% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 70255      | 45.948  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 91.900% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 29894      | 23.552  | ug/l   | 99       |
| 3) Chloromethane             | 2.119          | 50   | 28437      | 24.695  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.260          | 62   | 29579      | 23.162  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 18097      | 22.141  | ug/l   | 100      |
| 6) Chloroethane              | 2.796          | 64   | 14845      | 19.645  | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 54984      | 22.651  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.528          | 74   | 15426      | 21.989  | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 29354      | 21.993  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.101          | 142  | 32644      | 19.813  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 11485      | 115.902 | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 27471      | 22.050  | ug/l # | 80       |
| 13) Acrolein                 | 3.735          | 56   | 11928      | 119.869 | ug/l   | 95       |
| 14) Allyl chloride           | 4.485          | 41   | 37147      | 21.214  | ug/l # | 88       |
| 15) Acrylonitrile            | 5.168          | 53   | 33049      | 107.009 | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 29698      | 88.364  | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.204          | 76   | 78077      | 21.758  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.485          | 43   | 14863      | 19.576  | ug/l # | 80       |
| 19) Methyl tert-butyl Ether  | 5.229          | 73   | 75628      | 21.888  | ug/l   | 94       |
| 20) Methylene Chloride       | 4.723          | 84   | 30812      | 22.368  | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 29451      | 21.635  | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.125          | 45   | 77909      | 21.163  | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.064          | 43   | 249045     | 106.037 | ug/l # | 91       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 50558      | 21.974  | ug/l   | 93       |
| 25) 2-Butanone               | 6.984          | 43   | 40913      | 98.319  | ug/l # | 83       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 49936      | 21.660  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 34180      | 22.527  | ug/l   | 85       |
| 28) Bromochloromethane       | 7.344          | 49   | 17401      | 19.733  | ug/l # | 71       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 25726      | 105.350 | ug/l # | 79       |
| 30) Chloroform               | 7.509          | 83   | 54473      | 21.932  | ug/l   | 96       |
| 31) Cyclohexane              | 7.789          | 56   | 46638      | 20.819  | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 52112      | 22.033  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 41592      | 21.623  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.076          | 43   | 18921      | 21.771  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 47867      | 21.900  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 53059      | 21.246  | ug/l   | 90       |
| 40) Benzene                  | 8.167          | 78   | 113523     | 21.465  | ug/l   | 96       |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0216SBS01

Manual Integrations  
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 Supervised By : Mahesh Dadoda 02/21/2022

Quant Time: Feb 17 02:55:57 2022  
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 Quant Title : SW846 8260  
 QLast Update : Tue Feb 15 09:34:50 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 12146m   | 21.528  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 35036    | 21.679  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 36363    | 20.600  | ug/l # | 89       |
| 44) Trichloroethene           | 8.941  | 130  | 32710    | 21.802  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 27089    | 21.542  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 16938    | 21.691  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 40540    | 21.378  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 16463    | 21.046  | ug/l # | 86       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 3775     | 449.063 | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 91331    | 104.184 | ug/l   | 89       |
| 52) Toluene                   | 10.246 | 92   | 74204    | 21.881  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 41716    | 21.069  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 48443    | 21.926  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 22616    | 21.836  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 30110    | 21.619  | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 39000    | 21.865  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 74673    | 102.895 | ug/l   | 92       |
| 59) 2-Hexanone                | 10.831 | 43   | 62144    | 98.191  | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.984 | 129  | 28662    | 21.945  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 22062    | 21.364  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 29403    | 21.904  | ug/l   | 92       |
| 65) Chlorobenzene             | 11.520 | 112  | 79228    | 21.252  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 29828    | 21.185  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 146605   | 21.011  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 110726   | 41.932  | ug/l   | 98       |
| 69) o-Xylene                  | 12.032 | 106  | 53133    | 21.265  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 86144    | 20.969  | ug/l   | 98       |
| 71) Bromoform                 | 12.209 | 173  | 16352    | 21.086  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 143561   | 20.726  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 31560    | 20.126  | ug/l # | 90       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 24231    | 20.424  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 15796m   | 17.486  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 31272    | 21.025  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 170043   | 20.401  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 95606    | 20.807  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 118366   | 20.631  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 8935     | 20.557  | ug/l # | 85       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 96559    | 20.499  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 102487   | 20.438  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 121783   | 21.892  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.258 | 105  | 155343   | 21.015  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 127471   | 20.936  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 59633    | 20.593  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 60444    | 21.036  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.697 | 91   | 119087   | 20.568  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 24497    | 21.056  | ug/l   | 79       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 52622    | 20.633  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 3886     | 19.293  | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 30335    | 19.868  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 17943    | 20.262  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 66740    | 20.064  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 26673    | 20.202  | ug/l   | 97       |

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Response via : Initial Calibration

| 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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