

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110821\  
 Data File : VY006672.D  
 Acq On : 08 Nov 2021 12:00  
 Operator : SY/MD  
 Sample : VY1108SBS01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1108SBS01

Manual Integrations  
 APPROVED

Reviewed By :Vimala Arumugam 11/09/2021  
 Supervised By :Mahesh Dadoda 11/10/2021

Quant Time: Nov 08 12:20:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:59:04 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                        |                |      |                     |         |       |          |
| Internal Standards           |                |      |                     |         |       |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 133407              | 50.000  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 213752              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 194154              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 96051               | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 85160               | 51.874  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 103.740% |         |       |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 61670               | 51.763  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 103.520% |         |       |          |
| 50) Toluene-d8               | 10.185         | 98   | 256996              | 50.885  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 101.780% |         |       |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 87077               | 51.183  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 102.360% |         |       |          |
| Target Compounds             |                |      |                     |         |       |          |
|                              |                |      |                     |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 20704               | 16.789  | ug/l  | 99       |
| 3) Chloromethane             | 2.119          | 50   | 30960               | 18.600  | ug/l  | 100      |
| 4) Vinyl Chloride            | 2.260          | 62   | 34632               | 18.629  | ug/l  | 93       |
| 5) Bromomethane              | 2.650          | 94   | 21896               | 17.680  | ug/l  | 97       |
| 6) Chloroethane              | 2.802          | 64   | 18398               | 16.760  | ug/l  | 100      |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 46190               | 19.568  | ug/l  | 93       |
| 8) Diethyl Ether             | 3.540          | 74   | 14680               | 18.990  | ug/l  | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.912          | 101  | 24691               | 20.546  | ug/l  | 97       |
| 10) Methyl Iodide            | 4.101          | 142  | 21318               | 19.641  | ug/l  | 98       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 11775               | 78.953  | ug/l  | 99       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 23394               | 19.424  | ug/l  | 91       |
| 13) Acrolein                 | 3.741          | 56   | 8780                | 85.157  | ug/l  | 97       |
| 14) Allyl chloride           | 4.491          | 41   | 53444               | 21.559  | ug/l  | 98       |
| 15) Acrylonitrile            | 5.174          | 53   | 42160               | 96.844  | ug/l  | 99       |
| 16) Acetone                  | 3.954          | 43   | 41441               | 87.667  | ug/l  | 98       |
| 17) Carbon Disulfide         | 4.204          | 76   | 69955               | 17.708  | ug/l  | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 30374               | 19.815  | ug/l  | 97       |
| 19) Methyl tert-butyl Ether  | 5.229          | 73   | 74060               | 19.180  | ug/l  | 100      |
| 20) Methylene Chloride       | 4.729          | 84   | 32203               | 19.487  | ug/l  | 89       |
| 21) trans-1,2-Dichloroethene | 5.235          | 96   | 26732               | 19.572  | ug/l  | 99       |
| 22) Diisopropyl ether        | 6.131          | 45   | 115256              | 23.329  | ug/l  | 96       |
| 23) Vinyl Acetate            | 6.070          | 43   | 311412              | 103.634 | ug/l  | 96       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 56801               | 21.987  | ug/l  | 97       |
| 25) 2-Butanone               | 6.997          | 43   | 58584               | 94.598  | ug/l  | 94       |
| 26) 2,2-Dichloropropane      | 6.997          | 77   | 50732               | 20.647  | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 6.997          | 96   | 31312               | 20.081  | ug/l  | 93       |
| 28) Bromochloromethane       | 7.344          | 49   | 25892               | 24.703  | ug/l  | 90       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 36228               | 95.351  | ug/l  | 95       |
| 30) Chloroform               | 7.515          | 83   | 54336               | 20.367  | ug/l  | 95       |
| 31) Cyclohexane              | 7.795          | 56   | 54519               | 20.514  | ug/l  | 95       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 50103               | 20.339  | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 42335               | 20.045  | ug/l  | 97       |
| 37) Ethyl Acetate            | 7.082          | 43   | 25467               | 19.053  | ug/l  | 100      |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 42856               | 18.394  | ug/l  | 97       |
| 39) Methylcyclohexane        | 9.191          | 83   | 47023               | 18.290  | ug/l  | 96       |
| 40) Benzene                  | 8.167          | 78   | 118666              | 19.699  | ug/l  | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:59:04 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.350  | 41   | 36883    | 48.629  | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 40186    | 18.681  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 49537    | 19.104  | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 30084    | 19.365  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 31725    | 21.263  | ug/l   | 100      |
| 46) Dibromomethane            | 9.313  | 93   | 15630    | 19.084  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.502  | 83   | 42116    | 19.767  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 22626    | 18.827  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 3519     | 316.480 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 128493   | 94.531  | ug/l   | 97       |
| 52) Toluene                   | 10.246 | 92   | 71544    | 18.930  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.472 | 75   | 43922    | 19.136  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 50152    | 20.167  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 21505    | 18.990  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 31840    | 18.200  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 40100    | 19.484  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 81255    | 101.813 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.837 | 43   | 91820    | 93.335  | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.990 | 129  | 26192    | 18.751  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 19875    | 18.642  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.721 | 164  | 34461    | 20.299  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.520 | 112  | 74833    | 19.805  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 27760    | 19.516  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.593 | 91   | 142246   | 19.770  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 105619   | 39.021  | ug/l   | 99       |
| 69) o-Xylene                  | 12.032 | 106  | 50545    | 19.570  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 85117    | 19.275  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 16123    | 17.931  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 137271   | 20.430  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.148 | 43   | 43724    | 19.617  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 22125    | 19.021  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 21813m   | 22.038  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 30160    | 19.053  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 173451   | 20.889  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 95768    | 20.833  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 115267   | 20.488  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 9007     | 18.682  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 98713    | 20.608  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 100585   | 20.805  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 115655   | 20.560  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 152637   | 21.026  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 126206   | 20.379  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 62546    | 19.687  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 62354    | 19.961  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.697 | 91   | 123888   | 21.266  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 23233    | 20.772  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 54969    | 19.726  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 3946     | 15.979  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 33226    | 18.061  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 22638    | 19.200  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 57277    | 15.907  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 27679    | 17.181  | ug/l   | 98       |

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

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