

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010623\  
 Data File : VY012093.D  
 Acq On : 06 Jan 2023 15:50  
 Operator : KP/MD  
 Sample : VY0106SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0106SBS01

Quant Time: Jan 07 01:48:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010623S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jan 07 01:46:48 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 01/09/2023  
 Supervised By :Mahesh Dadoda 01/09/2023

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 165801     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 253512     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 233225     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 122431     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 91271      | 48.990  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.980% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 81186      | 48.723  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 97.440% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 306449     | 46.595  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 93.180% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 112460     | 48.919  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 97.840% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 34291      | 24.032  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 31893      | 24.857  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 35200      | 21.844  | ug/l   | 97       |
| 5) Bromomethane              | 2.644          | 94   | 28599      | 25.014  | ug/l   | 94       |
| 6) Chloroethane              | 2.790          | 64   | 23517      | 22.028  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 69882      | 21.768  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.528          | 74   | 21729      | 22.108  | ug/l   | 84       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 34666      | 20.973  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.095          | 142  | 45164      | 20.156  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 4.942          | 59   | 32908      | 136.191 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 35459      | 21.882  | ug/l   | 97       |
| 13) Acrolein                 | 3.729          | 56   | 14786      | 138.422 | ug/l   | 99       |
| 14) Allyl chloride           | 4.479          | 41   | 47101      | 21.562  | ug/l # | 89       |
| 15) Acrylonitrile            | 5.161          | 53   | 51318      | 111.129 | ug/l   | 100      |
| 16) Acetone                  | 3.948          | 43   | 45625      | 104.105 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.192          | 76   | 106321     | 24.835  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.473          | 43   | 26089      | 20.694  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 102699     | 21.532  | ug/l   | 93       |
| 20) Methylene Chloride       | 4.716          | 84   | 47627      | 22.444  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 40332      | 22.493  | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.119          | 45   | 99197      | 22.075  | ug/l # | 93       |
| 23) Vinyl Acetate            | 6.058          | 43   | 309540     | 113.831 | ug/l # | 94       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 64673      | 21.636  | ug/l   | 97       |
| 25) 2-Butanone               | 6.984          | 43   | 62594      | 108.253 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 68298      | 21.180  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 44665      | 21.809  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.332          | 49   | 15340      | 20.300  | ug/l # | 81       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 38145      | 113.017 | ug/l   | 88       |
| 30) Chloroform               | 7.509          | 83   | 74376      | 21.829  | ug/l   | 100      |
| 31) Cyclohexane              | 7.783          | 56   | 57068      | 22.310  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 71743      | 21.678  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 53621      | 21.211  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 29653      | 21.907  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 68478      | 21.341  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.185          | 83   | 65261      | 21.610  | ug/l   | 96       |
| 40) Benzene                  | 8.161          | 78   | 158134     | 21.466  | ug/l   | 99       |

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 ALS Vial : 14 Sample Multiplier: 1

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 MSVOA\_Y  
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 Quant Title : SW846 8260  
 QLast Update : Sat Jan 07 01:46:48 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Mahesh Dadoda 01/09/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 14182m   | 19.264  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 51412    | 22.044  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.271  | 43   | 49726    | 21.921  | ug/l   | 96       |
| 44) Trichloroethene           | 8.941  | 130  | 45089    | 20.962  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 35010    | 21.330  | ug/l   | 97       |
| 46) Dibromomethane            | 9.301  | 93   | 22704    | 21.973  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 56451    | 21.486  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 22110    | 21.759  | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 6471     | 452.251 | ug/l   | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 134036   | 111.045 | ug/l   | 98       |
| 52) Toluene                   | 10.240 | 92   | 103351   | 21.196  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 58919    | 21.557  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 64088    | 21.674  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 31627    | 21.193  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 42837    | 21.912  | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 53540    | 21.739  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 74975    | 104.849 | ug/l   | 91       |
| 59) 2-Hexanone                | 10.831 | 43   | 92025    | 108.576 | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.984 | 129  | 42474    | 21.585  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 31328    | 21.933  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.721 | 164  | 47660    | 20.860  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 112126   | 21.050  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 43502    | 21.154  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 199426   | 20.947  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 158721   | 42.505  | ug/l   | 99       |
| 69) o-Xylene                  | 12.026 | 106  | 74985    | 21.090  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 127413   | 21.096  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 28264    | 21.631  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 201279   | 20.777  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 42498    | 21.249  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 35275    | 21.646  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 28626m   | 20.478  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 48279    | 20.895  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 236666   | 20.927  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 134322   | 20.764  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 176233   | 21.210  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 13435    | 21.344  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 141531   | 20.917  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 150326   | 20.649  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 173273   | 21.067  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 215506   | 20.595  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 187633   | 20.697  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 95076    | 20.528  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 95059    | 20.546  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.696 | 91   | 163696   | 20.837  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 33796    | 20.094  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 87253    | 21.146  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 6935     | 21.412  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 51749    | 20.116  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 31983    | 20.606  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 101308   | 19.899  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 44939    | 20.092  | ug/l   | 98       |

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ALS Vial : 14 Sample Multiplier: 1

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MSVOA\_Y  
ClientSampleId :  
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Manual Integrations  
APPROVED

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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