

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052422\  
 Data File : VY009061.D  
 Acq On : 24 May 2022 14:55  
 Operator : KP/MD  
 Sample : N2948-25MS  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 P037-SS001-1218-01MS

Quant Time: May 25 02:53:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052022S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 20 23:50:52 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 05/27/2022  
 Supervised By :Mahesh Dadoda 05/31/2022

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 44760                | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 80032                | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 83761                | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 51363                | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 35692                | 77.480  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 154.960%  |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 33862                | 68.041  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 136.080%  |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 102057               | 55.587  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 111.180%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 55046                | 74.324  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 148.640%# |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 35853                | 87.578  | ug/l   | 99       |
| 3) Chloromethane             | 2.113          | 50   | 61686                | 105.177 | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.247          | 62   | 83328                | 95.899  | ug/l   | 97       |
| 5) Bromomethane              | 2.650          | 94   | 71511                | 83.958  | ug/l   | 99       |
| 6) Chloroethane              | 2.790          | 64   | 59210                | 96.187  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 65852                | 89.242  | ug/l   | 92       |
| 8) Diethyl Ether             | 3.527          | 74   | 26005                | 112.706 | ug/l   | 81       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 40116                | 88.456  | ug/l   | 93       |
| 10) Methyl Iodide            | 4.088          | 142  | 49475                | 105.648 | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 24600                | 526.471 | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 38969                | 92.563  | ug/l   | 83       |
| 13) Acrolein                 | 3.729          | 56   | 3600                 | 234.066 | ug/l   | 91       |
| 14) Allyl chloride           | 4.479          | 41   | 59054                | 93.077  | ug/l # | 80       |
| 15) Acrylonitrile            | 5.155          | 53   | 77615                | 600.788 | ug/l   | 98       |
| 16) Acetone                  | 3.942          | 43   | 72245                | 753.414 | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.186          | 76   | 124702               | 90.665  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.472          | 43   | 52095                | 174.464 | ug/l # | 91       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 144148               | 114.074 | ug/l   | 96       |
| 20) Methylene Chloride       | 4.716          | 84   | 59183                | 122.113 | ug/l # | 87       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 49611                | 91.810  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.118          | 45   | 160977               | 105.609 | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.057          | 43   | 420031               | 416.583 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 90588                | 99.363  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 106946               | 624.428 | ug/l # | 90       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 82193                | 97.870  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 61072                | 100.258 | ug/l   | 89       |
| 28) Bromochloromethane       | 7.332          | 49   | 35533                | 113.551 | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 69249                | 595.228 | ug/l # | 87       |
| 30) Chloroform               | 7.502          | 83   | 99529                | 101.134 | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 72625                | 80.587  | ug/l   | 90       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 82214                | 92.081  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 71873                | 84.862  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 41286                | 93.974  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 74754                | 84.374  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 80774                | 73.887  | ug/l   | 91       |
| 40) Benzene                  | 8.161          | 78   | 221939               | 90.875  | ug/l   | 96       |

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 MSVOA\_Y  
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 P037-SS001-1218-01MS

Quant Time: May 25 02:53:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052022S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 20 23:50:52 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/27/2022  
 Supervised By :Mahesh Dadoda 05/31/2022

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 20707m   | 91.338   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 74960    | 104.525  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 87573    | 107.202  | ug/l # | 94       |
| 44) Trichloroethene           | 8.935  | 130  | 55441    | 85.734   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 58536    | 99.819   | ug/l   | 94       |
| 46) Dibromomethane            | 9.301  | 93   | 38334    | 102.805  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.496  | 83   | 85003    | 99.747   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 41793    | 114.574  | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 10855    | 2177.719 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 253624   | 560.993  | ug/l   | 93       |
| 52) Toluene                   | 10.240 | 92   | 151243   | 88.615   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 95532    | 105.565  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 99017    | 101.780  | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 53354    | 102.274  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 67728    | 101.547  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 89681    | 105.385  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 127265   | 441.053  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.831 | 43   | 182333   | 589.046  | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.983 | 129  | 63504    | 100.420  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 52855    | 102.244  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 53746    | 88.156   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 163746   | 85.173   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 64336    | 91.392   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 293044   | 84.582   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.703 | 106  | 244663   | 173.956  | ug/l   | 90       |
| 69) o-Xylene                  | 12.026 | 106  | 116308   | 89.051   | ug/l   | 90       |
| 70) Styrene                   | 12.044 | 104  | 215055   | 95.747   | ug/l   | 93       |
| 71) Bromoform                 | 12.209 | 173  | 46587    | 99.832   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 296018   | 77.075   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 76177    | 85.967   | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 73392    | 92.765   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 53356m   | 96.734   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 73614    | 82.685   | ug/l   | 100      |
| 78) n-propylbenzene           | 12.672 | 91   | 369250   | 83.215   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 207672   | 81.137   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 259686   | 80.669   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 26969    | 100.356  | ug/l   | 85       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 229021   | 83.658   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 221215   | 77.457   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 268253   | 83.943   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 341775   | 78.216   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 293557   | 80.561   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 158615   | 83.519   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 158341   | 82.988   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 262146   | 78.637   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 53984    | 79.056   | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 146250   | 87.239   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 11428    | 93.040   | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 71069    | 77.244   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 35296    | 70.387   | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 165084   | 89.317   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 64415    | 80.568   | ug/l   | 100      |

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APPROVED

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Supervised By :Mahesh Dadoda 05/31/2022

Quant Time: May 25 02:53:22 2022  
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Quant Title : SW846 8260  
QLast Update : Fri May 20 23:50:52 2022  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

