

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY063023\  
 Data File : VY014521.D  
 Acq On : 30 Jun 2023 17:28  
 Operator : KP/MD  
 Sample : VY0630SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0630SBS01

Quant Time: Jun 30 23:19:07 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y063023S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 07/03/2023  
 Supervised By :Mahesh Dadoda 07/03/2023

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 409554     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 613610     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 565945     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 308310     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 187843     | 46.106  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 92.220% |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 182503     | 48.298  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.600% |        |          |
| 50) Toluene-d8               | 10.173         | 98   | 711648     | 47.642  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 95.280% |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 247078     | 47.635  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 95.260% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 69503      | 21.006  | ug/l   | 96       |
| 3) Chloromethane             | 2.107          | 50   | 94635      | 19.952  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.247          | 62   | 111580     | 20.409  | ug/l   | 98       |
| 5) Bromomethane              | 2.625          | 94   | 83372      | 19.666  | ug/l   | 99       |
| 6) Chloroethane              | 2.778          | 64   | 70502      | 20.027  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 135571     | 20.417  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.522          | 74   | 48207      | 19.174  | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 3.887          | 101  | 77719      | 19.600  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.082          | 142  | 90069      | 19.905  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 74951      | 94.138  | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 3.857          | 96   | 75262      | 19.592  | ug/l   | 88       |
| 13) Acrolein                 | 3.723          | 56   | 57435      | 106.002 | ug/l   | 99       |
| 14) Allyl chloride           | 4.473          | 41   | 110747     | 19.127  | ug/l   | 86       |
| 15) Acrylonitrile            | 5.155          | 53   | 132233     | 91.617  | ug/l   | 97       |
| 16) Acetone                  | 3.942          | 43   | 122067     | 95.940  | ug/l # | 87       |
| 17) Carbon Disulfide         | 4.186          | 76   | 236856     | 20.233  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.473          | 43   | 104596     | 18.059  | ug/l # | 90       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 208609     | 18.895  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.704          | 84   | 103368     | 19.325  | ug/l   | 87       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 84791      | 19.500  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.113          | 45   | 228204     | 19.128  | ug/l   | 91       |
| 23) Vinyl Acetate            | 6.052          | 43   | 647781     | 93.847  | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 141821     | 18.936  | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 173035     | 91.848  | ug/l # | 89       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 122716     | 19.223  | ug/l   | 94       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 93025      | 18.860  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.326          | 49   | 65474      | 20.819  | ug/l   | 83       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 110787     | 91.170  | ug/l # | 86       |
| 30) Chloroform               | 7.503          | 83   | 148615     | 19.022  | ug/l   | 96       |
| 31) Cyclohexane              | 7.777          | 56   | 121756     | 19.049  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 128901     | 19.302  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.911          | 75   | 112552     | 19.450  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.070          | 43   | 73201      | 18.446  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.893          | 117  | 117968     | 19.529  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 134317     | 19.419  | ug/l   | 95       |
| 40) Benzene                  | 8.155          | 78   | 335471     | 19.152  | ug/l   | 99       |

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 MSVOA\_Y  
 ClientSampleId :  
 VY0630SBS01

Manual Integrations  
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 Supervised By :Mahesh Dadoda 07/03/2023

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 Quant Title : SW846 8260  
 QLast Update : Fri Jun 30 19:02:11 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 33029m   | 17.036  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 96897    | 18.820  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 122305   | 18.186  | ug/l # | 91       |
| 44) Trichloroethene           | 8.935  | 130  | 94031    | 19.256  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.210  | 63   | 83094    | 18.492  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 51175    | 18.707  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.490  | 83   | 112204   | 18.615  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.289  | 41   | 55232    | 18.060  | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 17568    | 359.635 | ug/l # | 60       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 365543   | 91.810  | ug/l   | 90       |
| 52) Toluene                   | 10.240 | 92   | 213377   | 19.358  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 121428   | 18.839  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 135562   | 18.850  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 73074    | 18.358  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 98689    | 18.226  | ug/l # | 79       |
| 57) 1,3-Dichloropropane       | 10.789 | 76   | 120195   | 18.532  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.777  | 63   | 261085   | 99.529  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.825 | 43   | 266479   | 92.653  | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.978 | 129  | 88226    | 18.915  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 73557    | 18.928  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.715 | 164  | 99975    | 19.761  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.514 | 112  | 233306   | 19.344  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 89272    | 19.475  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.587 | 91   | 394493   | 19.180  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.697 | 106  | 314690   | 38.573  | ug/l   | 94       |
| 69) o-Xylene                  | 12.026 | 106  | 148289   | 19.164  | ug/l   | 95       |
| 70) Styrene                   | 12.038 | 104  | 254671   | 19.130  | ug/l   | 96       |
| 71) Bromoform                 | 12.203 | 173  | 65960    | 18.940  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.325 | 105  | 387198   | 19.176  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 111063   | 18.224  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.575 | 83   | 96659    | 18.654  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 63842m   | 17.646  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 105691   | 19.164  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.666 | 91   | 477711   | 19.395  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.752 | 91   | 271478   | 19.152  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 331463   | 19.391  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.374 | 75   | 32547    | 17.510  | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 282853   | 19.047  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.069 | 119  | 289187   | 19.249  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 332270   | 19.479  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.252 | 105  | 426772   | 19.251  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 362558   | 19.434  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 204329   | 18.949  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 203811   | 18.860  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.690 | 91   | 330220   | 19.153  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 70117    | 18.974  | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 13.733 | 146  | 188248   | 19.273  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.349 | 75   | 18040    | 19.016  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 124489   | 19.733  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.105 | 225  | 78251    | 20.182  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 252308   | 18.798  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 114629   | 19.942  | ug/l   | 98       |

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MSVOA\_Y  
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| 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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