

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051023\  
 Data File : VY013701.D  
 Acq On : 10 May 2023 20:23  
 Operator : KP/MD  
 Sample : 02719-03MSD  
 Misc : 5.70g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-04\_0-2\_20230509MSD

Quant Time: May 11 03:34:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 05/11/2023  
 Supervised By :Mahesh Dadoda 05/11/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 218337              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 330702              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 297520              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 153644              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 125694              | 52.516  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.040% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 112851              | 54.256  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 108.520% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 376849              | 50.930  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 101.860% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 138674              | 55.592  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 111.180% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 106939              | 51.520  | ug/l   | 97       |
| 3) Chloromethane             | 2.107          | 50   | 122148              | 43.901  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.247          | 62   | 124677              | 45.004  | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 92442               | 41.873  | ug/l   | 100      |
| 6) Chloroethane              | 2.796          | 64   | 82423               | 43.067  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 215682              | 51.392  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.528          | 74   | 67047               | 46.914  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 114146              | 48.489  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.088          | 142  | 132732              | 44.893  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.979          | 59   | 47509               | 176.423 | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 108587              | 47.854  | ug/l   | 93       |
| 13) Acrolein                 | 3.729          | 56   | 21340               | 96.611  | ug/l   | 93       |
| 14) Allyl chloride           | 4.479          | 41   | 198626              | 47.175  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.161          | 53   | 177788              | 222.131 | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 183748              | 194.944 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.192          | 76   | 306125              | 41.532  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.479          | 43   | 137675              | 44.224  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 319600              | 48.787  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 162524              | 56.013  | ug/l # | 85       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 119233              | 48.058  | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.119          | 45   | 424718              | 51.609  | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.058          | 43   | 1066049             | 228.789 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 232008              | 50.584  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 241971              | 202.422 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 200120              | 50.634  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 140030              | 51.083  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.332          | 49   | 79724               | 48.982  | ug/l   | 85       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 151850              | 204.072 | ug/l   | 92       |
| 30) Chloroform               | 7.502          | 83   | 246037              | 53.953  | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 185396              | 43.263  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.698          | 97   | 218956              | 53.807  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 175855              | 50.943  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.076          | 43   | 105259              | 40.519  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 200622              | 55.450  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 191631              | 47.089  | ug/l   | 98       |
| 40) Benzene                  | 8.161          | 78   | 508996              | 52.345  | ug/l   | 99       |

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 MSVOA\_Y  
 ClientSampleId :  
 SB-04\_0-2\_20230509MSD

Quant Time: May 11 03:34:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Mahesh Dadoda 05/11/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 48969    | 40.453  | ug/l # | 84       |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 171881   | 54.067  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 196786   | 44.880  | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 134589   | 52.034  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 134346   | 52.841  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 76713    | 50.428  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 187854   | 55.187  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 92244    | 45.807  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 18228    | 838.976 | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 544363   | 222.793 | ug/l   | 96       |
| 52) Toluene                   | 10.240 | 92   | 316248   | 54.045  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 188966   | 52.453  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 210205   | 51.855  | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 105902   | 52.568  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 137005   | 49.020  | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 180289   | 52.842  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 233140   | 222.452 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.831 | 43   | 386182   | 217.429 | ug/l   | 95       |
| 60) Dibromochloromethane      | 10.984 | 129  | 133293   | 54.491  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 99767    | 50.371  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 119114   | 52.650  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.514 | 112  | 340449   | 52.529  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 134416   | 55.454  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 609474   | 53.553  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 460891   | 106.528 | ug/l   | 96       |
| 69) o-Xylene                  | 12.026 | 106  | 220338   | 53.849  | ug/l   | 98       |
| 70) Styrene                   | 12.044 | 104  | 378571   | 55.334  | ug/l   | 100      |
| 71) Bromoform                 | 12.209 | 173  | 87601    | 51.596  | ug/l   | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 580869   | 49.984  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 165830   | 40.099  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 127846   | 45.008  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 91093m   | 43.962  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 145104   | 51.532  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 709187   | 49.545  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.752 | 91   | 400911   | 50.155  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 482760   | 50.897  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 41594    | 41.062  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 415234   | 49.840  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 423100   | 51.487  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 486767   | 52.785  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 614310   | 49.810  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 511144   | 51.538  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 272856   | 50.862  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 272847   | 50.349  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.697 | 91   | 472388   | 48.800  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 102267   | 48.993  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 249630   | 51.529  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 21253    | 42.365  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 149810   | 51.868  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 85035    | 50.588  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 299267   | 47.755  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 133176   | 51.733  | ug/l   | 98       |

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ALS Vial : 26 Sample Multiplier: 1

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MSVOA\_Y  
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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 05/11/2023  
Supervised By :Mahesh Dadoda 05/11/2023

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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

