

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082223\  
 Data File : VY015261.D  
 Acq On : 22 Aug 2023 21:54  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 23 02:48:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/23/2023  
 Supervised By :Mahesh Dadoda 08/23/2023

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 147069              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 243433              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 224505              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 116218              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 97143               | 55.025  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 110.060% |         |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 85220               | 54.416  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 108.840% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 304370              | 52.209  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 104.420% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 110493              | 51.891  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 103.780% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 28384               | 44.516  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 44915               | 51.232  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.247          | 62   | 54182               | 46.298  | ug/l   | 95       |
| 5) Bromomethane              | 2.643          | 94   | 47798               | 59.968  | ug/l   | 98       |
| 6) Chloroethane              | 2.790          | 64   | 43135               | 50.768  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 94639               | 47.993  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.527          | 74   | 39357               | 50.891  | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 59369               | 48.443  | ug/l   | 96       |
| 10) Methyl Iodide            | 4.088          | 142  | 51803               | 43.047  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.960          | 59   | 69137               | 237.024 | ug/l # | 82       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 48059               | 46.962  | ug/l   | 93       |
| 13) Acrolein                 | 3.729          | 56   | 21200               | 172.428 | ug/l   | 99       |
| 14) Allyl chloride           | 4.479          | 41   | 88807               | 48.946  | ug/l   | 98       |
| 15) Acrylonitrile            | 5.161          | 53   | 146628              | 279.774 | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 127725              | 221.462 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.192          | 76   | 79577               | 44.185  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.479          | 43   | 120262              | 56.902  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 228083              | 52.417  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 82694               | 60.728  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 57183               | 49.538  | ug/l   | 96       |
| 22) Diisopropyl ether        | 6.118          | 45   | 240518              | 53.125  | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.064          | 43   | 694845              | 257.211 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 129042              | 52.647  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 213672              | 261.661 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 103611              | 43.849  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 82126               | 52.083  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.332          | 49   | 61518               | 54.629  | ug/l   | 96       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 133408              | 273.220 | ug/l   | 93       |
| 30) Chloroform               | 7.508          | 83   | 144293              | 52.514  | ug/l   | 95       |
| 31) Cyclohexane              | 7.789          | 56   | 79425               | 50.387  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 119163              | 50.964  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 86244               | 49.777  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.076          | 43   | 84608               | 52.389  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 101050              | 49.280  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 91773               | 47.250  | ug/l   | 93       |
| 40) Benzene                  | 8.161          | 78   | 269998              | 51.544  | ug/l   | 100      |

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 ALS Vial : 32 Sample Multiplier: 1

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Manual Integrations  
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Quant Time: Aug 23 02:48:37 2023  
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 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 42072m   | 50.521   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 100045   | 52.589   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 153292   | 52.123   | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 77401    | 51.289   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 78979    | 53.469   | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 49834    | 53.492   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 118514   | 53.311   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 67806    | 53.896   | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 19744    | 1059.844 | ug/l # | 64       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 474215   | 278.218  | ug/l   | 94       |
| 52) Toluene                   | 10.246 | 92   | 175700   | 50.889   | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 114981   | 49.215   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 124809   | 50.725   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 76348    | 53.898   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 107213   | 51.716   | ug/l   | 92       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 122888   | 53.099   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 254291   | 263.577  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 342140   | 271.218  | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.983 | 129  | 89144    | 52.756   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 69993    | 52.013   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 85465    | 54.641   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.514 | 112  | 206231   | 50.417   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 85943    | 51.781   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 354625   | 49.481   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 269714   | 99.086   | ug/l   | 95       |
| 69) o-Xylene                  | 12.032 | 106  | 135558   | 49.991   | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 241098   | 51.372   | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 60834    | 50.561   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 366760   | 49.077   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 134167   | 49.725   | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 100617   | 51.695   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 80101m   | 56.730   | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 90294    | 49.568   | ug/l   | 95       |
| 78) n-propylbenzene           | 12.672 | 91   | 437384   | 49.286   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 253356   | 49.489   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 308897   | 49.587   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 30242    | 47.045   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 265245   | 50.150   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.075 | 119  | 280097   | 49.158   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 309246   | 49.680   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 414787   | 49.683   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 343652   | 49.648   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 181267   | 50.170   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 182077   | 50.243   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 320106   | 49.049   | ug/l   | 97       |
| 90) Hexachloroethane          | 13.959 | 117  | 67325    | 49.029   | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 172909   | 51.228   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 19615    | 52.023   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 107503   | 49.611   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 57335    | 48.643   | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 275254   | 50.993   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 98954    | 50.565   | ug/l   | 99       |

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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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