

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082724\  
 Data File : VY019300.D  
 Acq On : 27 Aug 2024 21:20  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 28 03:31:45 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/28/2024  
 Supervised By :Mahesh Dadoda 08/28/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.701          | 168  | 91804      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.610          | 114  | 145382     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 128485     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 64892      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.055          | 65   | 41543      | 45.143  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 90.280% |        |          |
| 35) Dibromofluoromethane     | 7.628          | 113  | 46992      | 49.434  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.860% |        |          |
| 50) Toluene-d8               | 10.103         | 98   | 163238     | 47.718  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 95.440% |        |          |
| 62) 4-Bromofluorobenzene     | 12.402         | 95   | 57079      | 48.946  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 97.900% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.861          | 85   | 27600      | 40.977  | ug/l   | 98       |
| 3) Chloromethane             | 2.068          | 50   | 49995      | 41.180  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.196          | 62   | 61309      | 40.883  | ug/l   | 96       |
| 5) Bromomethane              | 2.586          | 94   | 51891      | 57.566  | ug/l   | 96       |
| 6) Chloroethane              | 2.727          | 64   | 44975      | 46.877  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.044          | 101  | 93369      | 41.181  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.440          | 74   | 21999      | 44.952  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.799          | 101  | 45066      | 44.711  | ug/l   | 98       |
| 10) Methyl Iodide            | 3.988          | 142  | 47711      | 48.292  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.836          | 59   | 17821      | 222.742 | ug/l # | 79       |
| 12) 1,1-Dichloroethene       | 3.781          | 96   | 43092      | 47.057  | ug/l   | 97       |
| 13) Acrolein                 | 3.641          | 56   | 11133      | 153.469 | ug/l   | 95       |
| 14) Allyl chloride           | 4.373          | 41   | 55894      | 45.908  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.037          | 53   | 49693      | 248.163 | ug/l   | 99       |
| 16) Acetone                  | 3.854          | 43   | 38863      | 227.714 | ug/l   | 90       |
| 17) Carbon Disulfide         | 4.092          | 76   | 114657     | 44.391  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.366          | 43   | 25086      | 47.893  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.104          | 73   | 105855     | 47.679  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.598          | 84   | 51511      | 48.240  | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 5.104          | 96   | 49629      | 48.509  | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.006          | 45   | 129654     | 46.517  | ug/l   | 95       |
| 23) Vinyl Acetate            | 5.945          | 43   | 515559     | 233.636 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 5.903          | 63   | 81503      | 47.816  | ug/l   | 98       |
| 25) 2-Butanone               | 6.878          | 43   | 65621      | 238.751 | ug/l   | 89       |
| 26) 2,2-Dichloropropane      | 6.872          | 77   | 60662      | 43.949  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.872          | 96   | 59176      | 49.149  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.232          | 49   | 35954      | 50.285  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 7.250          | 42   | 41797      | 236.566 | ug/l   | 95       |
| 30) Chloroform               | 7.409          | 83   | 92091      | 48.486  | ug/l   | 100      |
| 31) Cyclohexane              | 7.689          | 56   | 63554      | 48.118  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.610          | 97   | 79930      | 47.886  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.823          | 75   | 62194      | 47.646  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.970          | 43   | 28673      | 49.579  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.805          | 117  | 70893      | 46.864  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.103          | 83   | 77813      | 46.452  | ug/l   | 97       |
| 40) Benzene                  | 8.067          | 78   | 197262     | 49.274  | ug/l   | 94       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Aug 16 05:10:30 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Mahesh Dadoda 08/28/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.213  | 41   | 14889m   | 47.168   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.146  | 62   | 49727    | 45.997   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.189  | 43   | 55619    | 47.554   | ug/l   | 95       |
| 44) Trichloroethene           | 8.860  | 130  | 54720    | 48.986   | ug/l   | 87       |
| 45) 1,2-Dichloropropane       | 9.134  | 63   | 45553    | 51.070   | ug/l   | 98       |
| 46) Dibromomethane            | 9.225  | 93   | 28428    | 49.139   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.420  | 83   | 72406    | 51.013   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.213  | 41   | 25428    | 48.783   | ug/l   | 92       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 7257     | 1035.523 | ug/l # | 96       |
| 51) 4-Methyl-2-Pentanone      | 9.993  | 43   | 151185   | 243.541  | ug/l   | 94       |
| 52) Toluene                   | 10.170 | 92   | 129657   | 49.338   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 58759    | 49.906   | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 71207    | 50.288   | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 37696    | 50.615   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.439 | 69   | 49079    | 50.347   | ug/l # | 89       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 60736    | 50.027   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63   | 116554   | 252.035  | ug/l   | 94       |
| 59) 2-Hexanone                | 10.762 | 43   | 103516   | 242.718  | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.908 | 129  | 51111    | 50.387   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 35906    | 49.881   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.646 | 164  | 58052    | 51.691   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.438 | 112  | 144475   | 48.833   | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 52564    | 50.522   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.518 | 91   | 248947   | 48.480   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 200423   | 98.366   | ug/l   | 98       |
| 69) o-Xylene                  | 11.957 | 106  | 95117    | 50.411   | ug/l   | 98       |
| 70) Styrene                   | 11.969 | 104  | 158757   | 49.340   | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 29900    | 50.274   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 247765   | 49.816   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 50520    | 46.582   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 42908    | 48.458   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 30840m   | 48.191   | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 56864    | 47.606   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.597 | 91   | 294050   | 49.456   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 161565   | 48.469   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 201918   | 49.834   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 12783    | 49.331   | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 169263   | 48.807   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 185842   | 49.667   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 199919   | 49.506   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 274790   | 50.395   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 225922   | 50.442   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 118565   | 50.333   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 114438   | 48.872   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 204375   | 50.050   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.877 | 117  | 45437    | 51.469   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 104888   | 50.627   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 5960     | 45.755   | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 57513    | 49.225   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 32251    | 52.995   | ug/l   | 97       |
| 95) Naphthalene               | 15.145 | 128  | 104859   | 50.288   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 49094    | 49.820   | ug/l   | 99       |

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APPROVED

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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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