

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081324\  
 Data File : VY019020.D  
 Acq On : 13 Aug 2024 11:19  
 Operator : SY/MD  
 Sample : VY0813SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0813SBS01

Quant Time: Aug 14 05:18:40 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y080824S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 09 04:24:33 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 08/14/2024  
 Supervised By :Mahesh Dadoda 08/14/2024

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.701          | 168  | 51699               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.603          | 114  | 77409               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 67855               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 35380               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.049          | 65   | 22941               | 50.541  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 101.080% |         |        |          |
| 35) Dibromofluoromethane     | 7.622          | 113  | 26250               | 53.095  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.180% |         |        |          |
| 50) Toluene-d8               | 10.103         | 98   | 100447              | 52.894  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 105.780% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 28194               | 50.043  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 100.080% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 7130                | 20.064  | ug/l   | 98       |
| 3) Chloromethane             | 2.068          | 50   | 16754               | 17.899  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.202          | 62   | 23728               | 19.925  | ug/l   | 98       |
| 5) Bromomethane              | 2.580          | 94   | 21823               | 22.968  | ug/l   | 98       |
| 6) Chloroethane              | 2.726          | 64   | 16279               | 20.328  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.043          | 101  | 33932               | 21.379  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.446          | 74   | 4725                | 19.312  | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.812          | 101  | 10328               | 20.829  | ug/l # | 91       |
| 10) Methyl Iodide            | 3.994          | 142  | 9343                | 17.450  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.842          | 59   | 3293                | 40.442  | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 3.787          | 96   | 9524                | 20.331  | ug/l   | 94       |
| 13) Acrolein                 | 3.641          | 56   | 3990                | 81.088  | ug/l   | 93       |
| 14) Allyl chloride           | 4.379          | 41   | 11854               | 18.921  | ug/l # | 84       |
| 15) Acrylonitrile            | 5.049          | 53   | 9629                | 100.392 | ug/l   | 93       |
| 16) Acetone                  | 3.866          | 43   | 8504                | 82.370  | ug/l # | 76       |
| 17) Carbon Disulfide         | 4.098          | 76   | 25509               | 18.318  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.360          | 43   | 5057                | 20.045  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.104          | 73   | 21360               | 18.538  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.598          | 84   | 10634               | 16.094  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.098          | 96   | 10333               | 19.936  | ug/l   | 87       |
| 22) Diisopropyl ether        | 6.006          | 45   | 25694               | 18.813  | ug/l # | 82       |
| 23) Vinyl Acetate            | 5.945          | 43   | 111765              | 94.820  | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 5.897          | 63   | 16650               | 19.872  | ug/l   | 96       |
| 25) 2-Butanone               | 6.878          | 43   | 13229               | 90.013  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.866          | 77   | 14360               | 18.209  | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 6.884          | 96   | 11743               | 18.936  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.232          | 49   | 8260                | 21.413  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.250          | 42   | 7954                | 91.784  | ug/l   | 91       |
| 30) Chloroform               | 7.402          | 83   | 18225               | 20.334  | ug/l   | 95       |
| 31) Cyclohexane              | 7.695          | 56   | 14257               | 17.639  | ug/l   | 85       |
| 32) 1,1,1-Trichloroethane    | 7.604          | 97   | 16740               | 20.662  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 7.823          | 75   | 13014               | 19.609  | ug/l   | 96       |
| 37) Ethyl Acetate            | 6.976          | 43   | 6574                | 21.672  | ug/l # | 88       |
| 38) Carbon Tetrachloride     | 7.805          | 117  | 15643               | 20.557  | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.103          | 83   | 16688               | 18.681  | ug/l   | 96       |
| 40) Benzene                  | 8.073          | 78   | 41382               | 20.972  | ug/l   | 97       |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Manual Integrations  
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 Supervised By :Mahesh Dadoda 08/14/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.207  | 41   | 2742m    | 18.989  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.146  | 62   | 9460     | 19.258  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.195  | 43   | 11848    | 19.205  | ug/l # | 80       |
| 44) Trichloroethene           | 8.859  | 130  | 10936    | 19.443  | ug/l   | 93       |
| 45) 1,2-Dichloropropane       | 9.134  | 63   | 8508     | 19.269  | ug/l   | 99       |
| 46) Dibromomethane            | 9.231  | 93   | 6151     | 21.561  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.420  | 83   | 13794    | 20.662  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.213  | 41   | 4852     | 18.004  | ug/l # | 68       |
| 49) 1,4-Dioxane               | 9.219  | 88   | 1607     | 476.780 | ug/l # | 72       |
| 51) 4-Methyl-2-Pentanone      | 9.993  | 43   | 29957    | 94.157  | ug/l # | 85       |
| 52) Toluene                   | 10.170 | 92   | 25945    | 19.794  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 10911    | 18.327  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 13625    | 19.266  | ug/l # | 77       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 7534     | 21.504  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 8210     | 17.307  | ug/l # | 67       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 11979    | 20.766  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63   | 22204    | 90.793  | ug/l   | 96       |
| 59) 2-Hexanone                | 10.762 | 43   | 21311    | 93.376  | ug/l   | 83       |
| 60) Dibromochloromethane      | 10.908 | 129  | 9360     | 19.927  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 6714     | 19.847  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.646 | 164  | 12082    | 21.241  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.444 | 112  | 30090    | 20.197  | ug/l   | 92       |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131  | 9934     | 19.063  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.517 | 91   | 48306    | 18.728  | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.633 | 106  | 39700    | 37.534  | ug/l   | 94       |
| 69) o-Xylene                  | 11.956 | 106  | 18400    | 18.849  | ug/l   | 95       |
| 70) Styrene                   | 11.969 | 104  | 30721    | 19.106  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 5519     | 20.366  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 48080    | 18.722  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.072 | 43   | 10438    | 17.613  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 8126     | 19.607  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 4971m    | 18.860  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 11845    | 19.799  | ug/l   | 84       |
| 78) n-propylbenzene           | 12.597 | 91   | 56721    | 18.661  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 30340    | 19.280  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105  | 37596    | 18.681  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 2077     | 16.238  | ug/l # | 79       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 30821    | 19.130  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 35915    | 18.893  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 36817    | 18.033  | ug/l   | 94       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 51007    | 18.524  | ug/l   | 94       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 43702    | 18.329  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 23730    | 19.418  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 22684    | 19.033  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.621 | 91   | 37779    | 18.052  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.883 | 117  | 8648     | 19.222  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 19894    | 19.799  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 930      | 16.313  | ug/l   | 76       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 11501    | 20.787  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 6324     | 20.842  | ug/l   | 96       |
| 95) Naphthalene               | 15.145 | 128  | 16998    | 17.258  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 9836     | 20.712  | ug/l   | 96       |

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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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