

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY103124\  
 Data File : VY020087.D  
 Acq On : 31 Oct 2024 12:21  
 Operator : SY/MD  
 Sample : VY1031SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1031SBS01

Quant Time: Nov 01 03:44:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y103024S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 15:23:13 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2024  
 Supervised By :Mahesh Dadoda 11/04/2024

| Compound                     | R.T.     | QIon  | Response | Conc    | Units    | Dev(Min) |
|------------------------------|----------|-------|----------|---------|----------|----------|
| -----                        |          |       |          |         |          |          |
| Internal Standards           |          |       |          |         |          |          |
| 1) Pentafluorobenzene        | 7.713    | 168   | 266532   | 50.000  | ug/l     | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.616    | 114   | 483245   | 50.000  | ug/l     | 0.00     |
| 63) Chlorobenzene-d5         | 11.414   | 117   | 414401   | 50.000  | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346   | 152   | 187853   | 50.000  | ug/l     | 0.00     |
| System Monitoring Compounds  |          |       |          |         |          |          |
| 33) 1,2-Dichloroethane-d4    | 8.067    | 65    | 176177   | 52.962  | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 50 | - 163 | Recovery | =       | 105.920% |          |
| 35) Dibromofluoromethane     | 7.640    | 113   | 159075   | 51.775  | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 54 | - 147 | Recovery | =       | 103.540% |          |
| 50) Toluene-d8               | 10.109   | 98    | 643935   | 52.653  | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 58 | - 134 | Recovery | =       | 105.300% |          |
| 62) 4-Bromofluorobenzene     | 12.402   | 95    | 207327   | 52.192  | ug/l     | 0.00     |
| Spiked Amount 50.000         | Range 29 | - 146 | Recovery | =       | 104.380% |          |
| Target Compounds             |          |       |          |         |          |          |
|                              |          |       |          |         |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.873    | 85    | 52210    | 21.161  | ug/l     | 97       |
| 3) Chloromethane             | 2.074    | 50    | 91942    | 22.498  | ug/l     | 98       |
| 4) Vinyl Chloride            | 2.214    | 62    | 93578    | 21.329  | ug/l     | 99       |
| 5) Bromomethane              | 2.604    | 94    | 63537    | 21.813  | ug/l     | 99       |
| 6) Chloroethane              | 2.745    | 64    | 59505    | 21.016  | ug/l     | 98       |
| 7) Trichlorofluoromethane    | 3.068    | 101   | 110888   | 20.690  | ug/l     | 98       |
| 8) Diethyl Ether             | 3.464    | 74    | 31311    | 20.946  | ug/l     | 74       |
| 9) 1,1,2-Trichlorotrifluo... | 3.830    | 101   | 63030    | 20.967  | ug/l     | 89       |
| 10) Methyl Iodide            | 4.013    | 142   | 65375    | 22.525  | ug/l     | 91       |
| 11) Tert butyl alcohol       | 4.866    | 59    | 23252    | 97.176  | ug/l #   | 91       |
| 12) 1,1-Dichloroethene       | 3.799    | 96    | 61512    | 21.386  | ug/l #   | 77       |
| 13) Acrolein                 | 3.665    | 56    | 31409    | 105.448 | ug/l     | 98       |
| 14) Allyl chloride           | 4.397    | 41    | 113308   | 21.835  | ug/l #   | 88       |
| 15) Acrylonitrile            | 5.067    | 53    | 70503    | 103.613 | ug/l     | 99       |
| 16) Acetone                  | 3.879    | 43    | 67614    | 87.403  | ug/l #   | 79       |
| 17) Carbon Disulfide         | 4.116    | 76    | 207355   | 21.663  | ug/l     | 100      |
| 18) Methyl Acetate           | 4.397    | 43    | 37505    | 20.663  | ug/l #   | 88       |
| 19) Methyl tert-butyl Ether  | 5.128    | 73    | 150075   | 20.740  | ug/l     | 97       |
| 20) Methylene Chloride       | 4.629    | 84    | 67806    | 19.512  | ug/l #   | 72       |
| 21) trans-1,2-Dichloroethene | 5.122    | 96    | 68153    | 21.011  | ug/l #   | 82       |
| 22) Diisopropyl ether        | 6.031    | 45    | 233220   | 21.657  | ug/l #   | 89       |
| 23) Vinyl Acetate            | 5.970    | 43    | 623813   | 102.935 | ug/l #   | 88       |
| 24) 1,1-Dichloroethane       | 5.927    | 63    | 136019   | 21.814  | ug/l     | 98       |
| 25) 2-Butanone               | 6.896    | 43    | 99230    | 94.628  | ug/l #   | 85       |
| 26) 2,2-Dichloropropane      | 6.896    | 77    | 104867   | 20.213  | ug/l     | 95       |
| 27) cis-1,2-Dichloroethene   | 6.896    | 96    | 81286    | 21.800  | ug/l     | 84       |
| 28) Bromochloromethane       | 7.250    | 49    | 55532    | 19.019  | ug/l #   | 71       |
| 29) Tetrahydrofuran          | 7.268    | 42    | 61614    | 101.812 | ug/l #   | 79       |
| 30) Chloroform               | 7.427    | 83    | 132399   | 21.397  | ug/l     | 95       |
| 31) Cyclohexane              | 7.707    | 56    | 123816   | 20.511  | ug/l     | 88       |
| 32) 1,1,1-Trichloroethane    | 7.616    | 97    | 115634   | 21.405  | ug/l     | 95       |
| 36) 1,1-Dichloropropene      | 7.841    | 75    | 97785    | 20.603  | ug/l     | 96       |
| 37) Ethyl Acetate            | 6.994    | 43    | 45105    | 19.933  | ug/l #   | 94       |
| 38) Carbon Tetrachloride     | 7.823    | 117   | 97425    | 20.413  | ug/l     | 99       |
| 39) Methylcyclohexane        | 9.109    | 83    | 118362   | 19.649  | ug/l #   | 83       |
| 40) Benzene                  | 8.085    | 78    | 291287   | 21.026  | ug/l     | 100      |

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 Response via : Initial Calibration

Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.226  | 41   | 18617    | 16.424  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 81676    | 21.299  | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 82095    | 18.866  | ug/l # | 78       |
| 44) Trichloroethene           | 8.866  | 130  | 67071    | 20.889  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 70142    | 21.162  | ug/l   | 98       |
| 46) Dibromomethane            | 9.231  | 93   | 35729    | 19.894  | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.426  | 83   | 100056   | 21.267  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.225  | 41   | 40177    | 19.934  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.225  | 88   | 6750     | 365.063 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 213487   | 95.216  | ug/l   | 88       |
| 52) Toluene                   | 10.170 | 92   | 179306   | 20.997  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 81863    | 19.704  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 103464   | 20.864  | ug/l # | 86       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 46938    | 21.020  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 63717    | 19.892  | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 83765    | 20.484  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 151917   | 96.170  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.762 | 43   | 145785   | 90.694  | ug/l   | 86       |
| 60) Dibromochloromethane      | 10.908 | 129  | 57763    | 20.293  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.012 | 107  | 42046    | 20.267  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.646 | 164  | 55983    | 20.460  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.444 | 112  | 187230   | 21.204  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131  | 58406    | 20.703  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.518 | 91   | 349618   | 21.181  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 258610   | 42.824  | ug/l   | 92       |
| 69) o-Xylene                  | 11.950 | 106  | 122003   | 21.339  | ug/l   | 94       |
| 70) Styrene                   | 11.969 | 104  | 202016   | 21.370  | ug/l   | 95       |
| 71) Bromoform                 | 12.127 | 173  | 28391    | 19.617  | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.255 | 105  | 319480   | 21.289  | ug/l   | 98       |
| 74) N-ethyl acetate           | 12.072 | 43   | 72161    | 19.237  | ug/l # | 86       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 54431    | 20.740  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 37979m   | 21.568  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 64874    | 21.376  | ug/l   | 84       |
| 78) n-propylbenzene           | 12.597 | 91   | 401852   | 21.516  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 220472   | 21.266  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 261720   | 21.723  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 14891    | 18.189  | ug/l # | 84       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 230166   | 21.775  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 228647   | 21.704  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 253593   | 21.251  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 341123   | 21.092  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 274045   | 21.116  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 128527   | 20.846  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 127470   | 20.761  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.615 | 91   | 270065   | 20.758  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.877 | 117  | 52231    | 20.350  | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 111579   | 20.820  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 7449     | 18.715  | ug/l   | 69       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 55524    | 19.287  | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 30136    | 19.143  | ug/l   | 97       |
| 95) Naphthalene               | 15.145 | 128  | 94892    | 17.633  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 44453    | 18.190  | ug/l   | 98       |

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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

