

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082324\  
 Data File : VY019248.D  
 Acq On : 23 Aug 2024 11:28  
 Operator : SY/MD  
 Sample : VY0823SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0823SBS01

Quant Time: Aug 23 22:54:23 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 08/26/2024  
 Supervised By :Semsettin Yesilyurt 08/26/2024

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.701          | 168  | 112102     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.603          | 114  | 177279     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.414         | 117  | 156588     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 77510      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.049          | 65   | 54285      | 48.308  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 96.620% |        |          |
| 35) Dibromofluoromethane     | 7.628          | 113  | 57107      | 49.266  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.540% |        |          |
| 50) Toluene-d8               | 10.103         | 98   | 206972     | 49.617  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 99.240% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 69035      | 48.547  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = | 97.100% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 15982      | 19.432  | ug/l   | 93       |
| 3) Chloromethane             | 2.068          | 50   | 24156      | 16.294  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.202          | 62   | 31127      | 16.998  | ug/l   | 99       |
| 5) Bromomethane              | 2.586          | 94   | 24897      | 18.549  | ug/l   | 98       |
| 6) Chloroethane              | 2.726          | 64   | 21500      | 17.228  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.043          | 101  | 49707      | 17.954  | ug/l   | 96       |
| 8) Diethyl Ether             | 3.446          | 74   | 10967      | 18.352  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 3.812          | 101  | 23275      | 18.910  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.001          | 142  | 20430      | 16.935  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 4.817          | 59   | 15777      | 147.825 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 3.781          | 96   | 21654      | 19.365  | ug/l   | 83       |
| 13) Acrolein                 | 3.641          | 56   | 8585       | 89.033  | ug/l   | 96       |
| 14) Allyl chloride           | 4.372          | 41   | 27766      | 18.676  | ug/l   | 92       |
| 15) Acrylonitrile            | 5.043          | 53   | 23411      | 95.744  | ug/l   | 97       |
| 16) Acetone                  | 3.860          | 43   | 19714      | 94.597  | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.098          | 76   | 56041      | 17.768  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.372          | 43   | 12289      | 19.214  | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.098          | 73   | 52247      | 19.272  | ug/l   | 94       |
| 20) Methylene Chloride       | 4.604          | 84   | 28653      | 14.975  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.110          | 96   | 23800      | 19.051  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.006          | 45   | 63733      | 18.726  | ug/l   | 93       |
| 23) Vinyl Acetate            | 5.945          | 43   | 248618     | 92.266  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 5.903          | 63   | 40275      | 19.350  | ug/l   | 96       |
| 25) 2-Butanone               | 6.884          | 43   | 31005      | 92.381  | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 6.878          | 77   | 33117      | 19.648  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.878          | 96   | 28754      | 19.558  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.238          | 49   | 17353      | 19.875  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.256          | 42   | 19352      | 89.698  | ug/l   | 94       |
| 30) Chloroform               | 7.415          | 83   | 45157      | 19.470  | ug/l   | 94       |
| 31) Cyclohexane              | 7.689          | 56   | 33223      | 17.923  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.610          | 97   | 40572      | 19.906  | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.829          | 75   | 31078      | 19.525  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.970          | 43   | 14594      | 20.694  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.805          | 117  | 36912      | 20.010  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.103          | 83   | 39527      | 19.351  | ug/l   | 98       |
| 40) Benzene                  | 8.073          | 78   | 97147      | 19.900  | ug/l   | 98       |

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 Quant Title : SW846 8260  
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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         | 7.219  | 41   | 7704     | 20.015  | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 8.146  | 62   | 26218    | 19.888  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.189  | 43   | 26621    | 18.665  | ug/l # | 83       |
| 44) Trichloroethene           | 8.859  | 130  | 26323    | 19.325  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.134  | 63   | 21262    | 19.548  | ug/l   | 94       |
| 46) Dibromomethane            | 9.225  | 93   | 14456    | 20.492  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.420  | 83   | 34463    | 19.912  | ug/l # | 88       |
| 48) Methyl methacrylate       | 9.219  | 41   | 11848    | 18.640  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 9.219  | 88   | 3401     | 397.981 | ug/l # | 99       |
| 51) 4-Methyl-2-Pentanone      | 9.993  | 43   | 72077    | 95.217  | ug/l   | 94       |
| 52) Toluene                   | 10.170 | 92   | 64746    | 20.205  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 28732    | 20.012  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 34406    | 19.927  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 18437    | 20.302  | ug/l # | 90       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 22667    | 19.069  | ug/l # | 85       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 30869    | 20.851  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63   | 56072    | 99.433  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.762 | 43   | 49095    | 94.403  | ug/l   | 94       |
| 60) Dibromochloromethane      | 10.908 | 129  | 25452    | 20.577  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 17680    | 20.142  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.646 | 164  | 28029    | 20.479  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.444 | 112  | 70145    | 19.454  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 25612    | 20.199  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.518 | 91   | 120488   | 19.253  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.627 | 106  | 96125    | 38.710  | ug/l   | 98       |
| 69) o-Xylene                  | 11.956 | 106  | 44959    | 19.551  | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 75596    | 19.278  | ug/l   | 97       |
| 71) Bromoform                 | 12.133 | 173  | 14795    | 20.412  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.255 | 105  | 117969   | 19.858  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 23222    | 17.926  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 19328    | 18.275  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 15133m   | 19.797  | ug/l   |          |
| 77) Bromobenzene              | 12.536 | 156  | 28483    | 19.964  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.597 | 91   | 141193   | 19.881  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 78928    | 19.823  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 95754    | 19.785  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 5775     | 18.658  | ug/l # | 82       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 82176    | 19.838  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 12.999 | 119  | 88074    | 19.706  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 96033    | 19.909  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 130567   | 20.047  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 107342   | 20.065  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 56336    | 20.022  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 56033    | 20.034  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.621 | 91   | 96162    | 19.716  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.883 | 117  | 21234    | 20.137  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 49123    | 19.851  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 2618     | 16.826  | ug/l   | 91       |
| 93) 1,2,4-Trichlorobenzene    | 14.925 | 180  | 26058    | 18.672  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 15190    | 20.897  | ug/l   | 98       |
| 95) Naphthalene               | 15.145 | 128  | 43277    | 17.376  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 22568    | 19.174  | 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

