

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081224\  
 Data File : VY018989.D  
 Acq On : 12 Aug 2024 09:37  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 13 01:08:29 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 :Semsettin  
 Yesilyurt  
 08/13/2024  
 Supervised By :Mahesh  
 Dadoda  
 08/13/2024

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Pentafluorobenzene        | 7.701  | 168   | 68261    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.610  | 114   | 101892   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 11.420 | 117   | 88980    | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347 | 152   | 45306    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 8.055  | 65    | 30397    | 50.719   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | = 101.440% |          |
| 35) Dibromofluoromethane     | 7.622  | 113   | 34830    | 53.521   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | = 107.040% |          |
| 50) Toluene-d8               | 10.103 | 98    | 128259   | 51.311   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 134 | Recovery | = 102.620% |          |
| 62) 4-Bromofluorobenzene     | 12.408 | 95    | 37334    | 50.343   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 30 - 143 | Recovery | = 100.680% |          |
| Target Compounds             |        |       |          |          |            |          |
|                              |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane   | 1.867  | 85    | 22300    | 47.528   | ug/l       | 94       |
| 3) Chloromethane             | 2.068  | 50    | 52024    | 46.524   | ug/l       | 100      |
| 4) Vinyl Chloride            | 2.202  | 62    | 70985    | 45.145   | ug/l       | 95       |
| 5) Bromomethane              | 2.592  | 94    | 55440    | 44.192   | ug/l       | 99       |
| 6) Chloroethane              | 2.733  | 64    | 49373    | 46.695   | ug/l       | 97       |
| 7) Trichlorofluoromethane    | 3.050  | 101   | 90572    | 43.220   | ug/l       | 95       |
| 8) Diethyl Ether             | 3.452  | 74    | 15704    | 48.613   | ug/l       | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.812  | 101   | 31985    | 48.855   | ug/l       | 92       |
| 10) Methyl Iodide            | 4.001  | 142   | 38955    | 55.103   | ug/l       | 94       |
| 11) Tert butyl alcohol       | 4.830  | 59    | 12175    | 230.565  | ug/l       | 100      |
| 12) 1,1-Dichloroethene       | 3.781  | 96    | 29485    | 47.671   | ug/l       | 97       |
| 13) Acrolein                 | 3.641  | 56    | 14460    | 229.922  | ug/l       | 98       |
| 14) Allyl chloride           | 4.373  | 41    | 39035    | 47.188   | ug/l #     | 83       |
| 15) Acrylonitrile            | 5.043  | 53    | 32393    | 255.786  | ug/l       | 97       |
| 16) Acetone                  | 3.860  | 43    | 40489    | 275.971  | ug/l #     | 84       |
| 17) Carbon Disulfide         | 4.098  | 76    | 89174    | 48.500   | ug/l       | 100      |
| 18) Methyl Acetate           | 4.379  | 43    | 16316    | 48.981   | ug/l       | 93       |
| 19) Methyl tert-butyl Ether  | 5.110  | 73    | 75303    | 49.499   | ug/l       | 94       |
| 20) Methylene Chloride       | 4.604  | 84    | 34973    | 50.881   | ug/l       | 90       |
| 21) trans-1,2-Dichloroethene | 5.104  | 96    | 34604    | 50.565   | ug/l       | 90       |
| 22) Diisopropyl ether        | 6.006  | 45    | 92704    | 51.407   | ug/l #     | 86       |
| 23) Vinyl Acetate            | 5.952  | 43    | 403906   | 259.528  | ug/l       | 93       |
| 24) 1,1-Dichloroethane       | 5.903  | 63    | 56210    | 50.809   | ug/l       | 100      |
| 25) 2-Butanone               | 6.884  | 43    | 53126    | 273.774  | ug/l       | 94       |
| 26) 2,2-Dichloropropane      | 6.878  | 77    | 49377    | 47.422   | ug/l       | 98       |
| 27) cis-1,2-Dichloroethene   | 6.878  | 96    | 40703    | 49.710   | ug/l       | 98       |
| 28) Bromochloromethane       | 7.238  | 49    | 26223    | 51.487   | ug/l       | 94       |
| 29) Tetrahydrofuran          | 7.256  | 42    | 28351    | 247.775  | ug/l       | 90       |
| 30) Chloroform               | 7.409  | 83    | 60870    | 51.436   | ug/l       | 96       |
| 31) Cyclohexane              | 7.695  | 56    | 47446    | 50.677   | ug/l       | 98       |
| 32) 1,1,1-Trichloroethane    | 7.616  | 97    | 56836    | 53.132   | ug/l       | 96       |
| 36) 1,1-Dichloropropene      | 7.823  | 75    | 43930    | 50.288   | ug/l       | 98       |
| 37) Ethyl Acetate            | 6.976  | 43    | 20346    | 50.956   | ug/l #     | 76       |
| 38) Carbon Tetrachloride     | 7.811  | 117   | 53116    | 53.031   | ug/l       | 93       |
| 39) Methylcyclohexane        | 9.103  | 83    | 59541    | 50.636   | ug/l       | 99       |
| 40) Benzene                  | 8.067  | 78    | 136657   | 52.614   | ug/l       | 98       |

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|-------------------------------|--------|------|----------|---------|-------|----------|-----|
| 41) Methacrylonitrile         | 7.220  | 41   | 11150    | 62.746  | ug/l  | #        | 64  |
| 42) 1,2-Dichloroethane        | 8.146  | 62   | 34631    | 53.559  | ug/l  |          | 99  |
| 43) Isopropyl Acetate         | 8.189  | 43   | 42052    | 51.787  | ug/l  | #        | 89  |
| 44) Trichloroethene           | 8.860  | 130  | 38635    | 52.184  | ug/l  |          | 96  |
| 45) 1,2-Dichloropropane       | 9.134  | 63   | 29851    | 51.363  | ug/l  |          | 95  |
| 46) Dibromomethane            | 9.225  | 93   | 20320    | 54.112  | ug/l  |          | 98  |
| 47) Bromodichloromethane      | 9.420  | 83   | 47437    | 53.981  | ug/l  |          | 99  |
| 48) Methyl methacrylate       | 9.213  | 41   | 17683    | 49.848  | ug/l  | #        | 80  |
| 49) 1,4-Dioxane               | 9.219  | 88   | 4381     | 987.476 | ug/l  | #        | 99  |
| 51) 4-Methyl-2-Pentanone      | 9.994  | 43   | 108075   | 258.067 | ug/l  |          | 87  |
| 52) Toluene                   | 10.170 | 92   | 92667    | 53.710  | ug/l  |          | 95  |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 41133    | 52.488  | ug/l  |          | 94  |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 49866    | 53.569  | ug/l  | #        | 86  |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 24792    | 53.760  | ug/l  |          | 97  |
| 56) Ethyl methacrylate        | 10.439 | 69   | 30684    | 49.141  | ug/l  | #        | 68  |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 39410    | 51.904  | ug/l  |          | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707  | 63   | 79316    | 246.397 | ug/l  |          | 96  |
| 59) 2-Hexanone                | 10.762 | 43   | 82253    | 273.802 | ug/l  |          | 85  |
| 60) Dibromochloromethane      | 10.908 | 129  | 34749    | 56.203  | ug/l  |          | 99  |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 23042    | 51.747  | ug/l  |          | 97  |
| 64) Tetrachloroethene         | 10.646 | 164  | 38891    | 52.139  | ug/l  |          | 98  |
| 65) Chlorobenzene             | 11.444 | 112  | 103222   | 52.835  | ug/l  |          | 98  |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 35938    | 52.592  | ug/l  |          | 99  |
| 67) Ethyl Benzene             | 11.518 | 91   | 174879   | 51.702  | ug/l  |          | 94  |
| 68) m/p-Xylenes               | 11.627 | 106  | 147913   | 106.643 | ug/l  |          | 90  |
| 69) o-Xylene                  | 11.957 | 106  | 69240    | 54.089  | ug/l  |          | 87  |
| 70) Styrene                   | 11.969 | 104  | 113617   | 53.886  | ug/l  |          | 97  |
| 71) Bromoform                 | 12.133 | 173  | 20142    | 56.682  | ug/l  | #        | 95  |
| 73) Isopropylbenzene          | 12.255 | 105  | 167278   | 50.865  | ug/l  |          | 96  |
| 74) N-amyl acetate            | 12.072 | 43   | 37660    | 49.626  | ug/l  | #        | 85  |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 26876    | 50.641  | ug/l  |          | 98  |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 16583m   | 49.131  | ug/l  |          |     |
| 77) Bromobenzene              | 12.536 | 156  | 40576    | 52.964  | ug/l  |          | 88  |
| 78) n-propylbenzene           | 12.597 | 91   | 197971   | 50.861  | ug/l  |          | 97  |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 104440   | 51.828  | ug/l  |          | 94  |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 133163   | 51.670  | ug/l  |          | 96  |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 8397     | 51.264  | ug/l  |          | 90  |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 107171   | 51.947  | ug/l  |          | 92  |
| 83) tert-Butylbenzene         | 12.999 | 119  | 125233   | 51.446  | ug/l  |          | 97  |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 134619   | 51.491  | ug/l  |          | 96  |
| 85) sec-Butylbenzene          | 13.182 | 105  | 180910   | 51.307  | ug/l  |          | 97  |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 161954   | 53.044  | ug/l  |          | 98  |
| 87) 1,3-Dichlorobenzene       | 13.292 | 146  | 84220    | 53.816  | ug/l  |          | 98  |
| 88) 1,4-Dichlorobenzene       | 13.371 | 146  | 79822    | 52.301  | ug/l  |          | 99  |
| 89) n-Butylbenzene            | 13.621 | 91   | 139303   | 51.979  | ug/l  |          | 98  |
| 90) Hexachloroethane          | 13.883 | 117  | 30686    | 53.264  | ug/l  |          | 98  |
| 91) 1,2-Dichlorobenzene       | 13.664 | 146  | 66957    | 52.039  | ug/l  |          | 97  |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 3416     | 46.792  | ug/l  |          | 94  |
| 93) 1,2,4-Trichlorobenzene    | 14.926 | 180  | 37728    | 53.251  | ug/l  |          | 99  |
| 94) Hexachlorobutadiene       | 15.029 | 225  | 20923    | 53.848  | ug/l  |          | 98  |
| 95) Naphthalene               | 15.151 | 128  | 63262    | 50.157  | ug/l  |          | 99  |
| 96) 1,2,3-Trichlorobenzene    | 15.334 | 180  | 30977    | 50.939  | ug/l  |          | 98  |

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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