

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022025\  
 Data File : VY021247.D  
 Acq On : 20 Feb 2025 14:04  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 02/21/2025  
 Supervised By :Semsettin Yesilyurt 02/21/2025

Quant Time: Feb 21 02:39:38 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.732  | 168  | 185084   | 50.000 | ug/l  | 0.02     |
| 34) 1,4-Difluorobenzene    | 8.634  | 114  | 287974   | 50.000 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 11.432 | 117  | 245962   | 50.000 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 13.365 | 152  | 116013   | 50.000 | ug/l  | 0.01     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.085  | 65    | 95366    | 50.290   | ug/l       | 0.02 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 100.580% |      |
| 35) Dibromofluoromethane    | 7.658  | 113   | 92770    | 50.267   | ug/l       | 0.02 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 100.540% |      |
| 50) Toluene-d8              | 10.127 | 98    | 339634   | 48.339   | ug/l       | 0.02 |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | = 96.680%  |      |
| 62) 4-Bromofluorobenzene    | 12.426 | 95    | 114707   | 49.973   | ug/l       | 0.01 |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | = 99.940%  |      |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.879 | 85  | 68306  | 41.407  | ug/l   | 96  |
| 3) Chloromethane             | 2.086 | 50  | 82880  | 50.915  | ug/l   | 99  |
| 4) Vinyl Chloride            | 2.220 | 62  | 83761  | 51.123  | ug/l   | 96  |
| 5) Bromomethane              | 2.623 | 94  | 48352  | 47.748  | ug/l   | 98  |
| 6) Chloroethane              | 2.757 | 64  | 50853  | 52.140  | ug/l   | 100 |
| 7) Trichlorofluoromethane    | 3.086 | 101 | 141061 | 47.257  | ug/l   | 100 |
| 8) Diethyl Ether             | 3.476 | 74  | 48509  | 52.058  | ug/l   | 92  |
| 9) 1,1,2-Trichlorotrifluo... | 3.848 | 101 | 87799  | 46.866  | ug/l   | 97  |
| 10) Methyl Iodide            | 4.037 | 142 | 116603 | 56.024  | ug/l   | 95  |
| 11) Tert butyl alcohol       | 4.933 | 59  | 27963  | 217.601 | ug/l   | 97  |
| 12) 1,1-Dichloroethene       | 3.818 | 96  | 82467  | 46.730  | ug/l   | 90  |
| 13) Acrolein                 | 3.683 | 56  | 31145  | 157.390 | ug/l   | 95  |
| 14) Allyl chloride           | 4.415 | 41  | 151468 | 50.927  | ug/l   | 95  |
| 15) Acrylonitrile            | 5.098 | 53  | 102409 | 263.919 | ug/l   | 98  |
| 16) Acetone                  | 3.909 | 43  | 74874  | 253.184 | ug/l   | 95  |
| 17) Carbon Disulfide         | 4.141 | 76  | 230468 | 41.648  | ug/l   | 99  |
| 18) Methyl Acetate           | 4.421 | 43  | 58577  | 56.425  | ug/l   | 99  |
| 19) Methyl tert-butyl Ether  | 5.147 | 73  | 238476 | 53.465  | ug/l   | 99  |
| 20) Methylene Chloride       | 4.647 | 84  | 91654  | 49.855  | ug/l   | 92  |
| 21) trans-1,2-Dichloroethene | 5.147 | 96  | 93086  | 47.920  | ug/l   | 92  |
| 22) Diisopropyl ether        | 6.049 | 45  | 333223 | 54.355  | ug/l   | 97  |
| 23) Vinyl Acetate            | 5.988 | 43  | 923149 | 270.125 | ug/l   | 99  |
| 24) 1,1-Dichloroethane       | 5.951 | 63  | 182583 | 50.834  | ug/l   | 98  |
| 25) 2-Butanone               | 6.927 | 43  | 126163 | 259.614 | ug/l   | 100 |
| 26) 2,2-Dichloropropane      | 6.915 | 77  | 165826 | 49.896  | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene   | 6.921 | 96  | 112157 | 50.161  | ug/l   | 92  |
| 28) Bromochloromethane       | 7.274 | 49  | 84983  | 59.836  | ug/l   | 96  |
| 29) Tetrahydrofuran          | 7.293 | 42  | 86238  | 262.254 | ug/l   | 94  |
| 30) Chloroform               | 7.445 | 83  | 190805 | 51.719  | ug/l   | 99  |
| 31) Cyclohexane              | 7.725 | 56  | 144541 | 44.688  | ug/l   | 96  |
| 32) 1,1,1-Trichloroethane    | 7.646 | 97  | 167997 | 48.978  | ug/l   | 100 |
| 36) 1,1-Dichloropropene      | 7.860 | 75  | 130970 | 47.912  | ug/l   | 99  |
| 37) Ethyl Acetate            | 7.012 | 43  | 63053  | 52.580  | ug/l   | 99  |
| 38) Carbon Tetrachloride     | 7.841 | 117 | 150782 | 47.207  | ug/l   | 98  |
| 39) Methylcyclohexane        | 9.128 | 83  | 156143 | 46.698  | ug/l   | 97  |
| 40) Benzene                  | 8.103 | 78  | 398704 | 49.702  | ug/l   | 99  |

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 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.244  | 41   | 38322    | 55.237  | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.183  | 62   | 113239   | 50.887  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.219  | 43   | 128560   | 53.953  | ug/l   | 96       |
| 44) Trichloroethene           | 8.884  | 130  | 98760    | 47.651  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.164  | 63   | 97955    | 51.446  | ug/l   | 100      |
| 46) Dibromomethane            | 9.250  | 93   | 52562    | 49.859  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.445  | 83   | 144299   | 51.037  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.237  | 41   | 58550    | 53.944  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.262  | 88   | 9328     | 950.480 | ug/l # | 68       |
| 51) 4-Methyl-2-Pentanone      | 10.018 | 43   | 322814   | 269.407 | ug/l   | 97       |
| 52) Toluene                   | 10.188 | 92   | 249979   | 49.628  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.414 | 75   | 132925   | 52.359  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.877  | 75   | 155197   | 51.630  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.591 | 97   | 69180    | 50.676  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.457 | 69   | 98203    | 53.772  | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.737 | 76   | 124286   | 52.599  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.731  | 63   | 214908   | 247.351 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.780 | 43   | 208882   | 270.749 | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.932 | 129  | 96811    | 50.498  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.036 | 107  | 63524    | 49.679  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.664 | 164  | 84373    | 46.209  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.463 | 112  | 270811   | 49.447  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.536 | 131  | 98920    | 50.825  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.536 | 91   | 484643   | 50.030  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.645 | 106  | 361045   | 99.629  | ug/l   | 96       |
| 69) o-Xylene                  | 11.975 | 106  | 170639   | 50.505  | ug/l   | 98       |
| 70) Styrene                   | 11.987 | 104  | 289372   | 51.387  | ug/l   | 98       |
| 71) Bromoform                 | 12.151 | 173  | 54240    | 50.067  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.273 | 105  | 463626   | 51.160  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.090 | 43   | 107904   | 54.462  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.523 | 83   | 77883    | 51.675  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.572 | 75   | 55720m   | 52.947  | ug/l   |          |
| 77) Bromobenzene              | 12.548 | 156  | 104061   | 49.760  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.615 | 91   | 549460   | 50.898  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.694 | 91   | 314055   | 50.794  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.755 | 105  | 372424   | 50.688  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.322 | 75   | 25986    | 50.385  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.798 | 91   | 323012   | 51.276  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.017 | 119  | 339870   | 50.891  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.060 | 105  | 366859   | 51.066  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.194 | 105  | 486259   | 50.581  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.310 | 119  | 404618   | 50.668  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.304 | 146  | 197446   | 48.898  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.383 | 146  | 194091   | 48.818  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.633 | 91   | 379096   | 52.037  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.901 | 117  | 83728    | 50.259  | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene       | 13.676 | 146  | 171920   | 49.054  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.291 | 75   | 11444    | 50.811  | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 14.938 | 180  | 98831    | 50.661  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.041 | 225  | 64101    | 49.584  | ug/l   | 98       |
| 95) Naphthalene               | 15.163 | 128  | 166223   | 53.258  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.346 | 180  | 82093    | 50.566  | ug/l   | 97       |

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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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