

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090825\  
 Data File : VY023306.D  
 Acq On : 08 Sep 2025 11:23  
 Operator : SY/MD  
 Sample : VSTDICCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 09/09/2025  
 Supervised By :Semsettin Yesilyurt 09/09/2025

Quant Time: Sep 09 01:44:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090825S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 09 01:40:33 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.713          | 168  | 526393     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616          | 114  | 778902     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 694798     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347         | 152  | 356166     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 226238     | 48.911   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 97.820%  |        |          |
| 35) Dibromofluoromethane     | 7.640          | 113  | 242771     | 50.990   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 101.980% |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 924895     | 51.445   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 102.880% |        |          |
| 62) 4-Bromofluorobenzene     | 12.408         | 95   | 294348     | 52.026   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 104.060% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 191965     | 45.456   | ug/l   | 100      |
| 3) Chloromethane             | 2.074          | 50   | 281181     | 46.530   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.208          | 62   | 365961     | 48.071   | ug/l   | 100      |
| 5) Bromomethane              | 2.598          | 94   | 280343     | 45.099   | ug/l   | 100      |
| 6) Chloroethane              | 2.739          | 64   | 247798     | 48.098   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.062          | 101  | 457788     | 47.643   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.458          | 74   | 125500     | 49.362   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 3.818          | 101  | 247430     | 47.882   | ug/l   | 100      |
| 10) Methyl Iodide            | 4.007          | 142  | 320240     | 53.125   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 4.860          | 59   | 64196      | 240.194  | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 241227     | 48.526   | ug/l   | 100      |
| 13) Acrolein                 | 3.659          | 56   | 106268     | 235.190  | ug/l   | 100      |
| 14) Allyl chloride           | 4.391          | 41   | 314185     | 50.033   | ug/l   | 100      |
| 15) Acrylonitrile            | 5.061          | 53   | 246560     | 246.345  | ug/l   | 100      |
| 16) Acetone                  | 3.873          | 43   | 263093     | 249.707  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.110          | 76   | 764425     | 48.571   | ug/l   | 100      |
| 18) Methyl Acetate           | 4.391          | 43   | 122876     | 47.543   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.122          | 73   | 589871     | 50.466   | ug/l   | 100      |
| 20) Methylene Chloride       | 4.622          | 84   | 264766     | 46.970   | ug/l   | 100      |
| 21) trans-1,2-Dichloroethene | 5.122          | 96   | 273371     | 49.219   | ug/l   | 100      |
| 22) Diisopropyl ether        | 6.025          | 45   | 712660     | 50.959   | ug/l   | 100      |
| 23) Vinyl Acetate            | 5.964          | 43   | 1986591    | 256.951  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 444491     | 48.594   | ug/l   | 100      |
| 25) 2-Butanone               | 6.896          | 43   | 321192     | 247.689  | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 6.890          | 77   | 395813     | 49.007   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 311626     | 49.545   | ug/l   | 100      |
| 28) Bromochloromethane       | 7.250          | 49   | 172947     | 48.051   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.268          | 42   | 193120     | 251.078  | ug/l   | 100      |
| 30) Chloroform               | 7.427          | 83   | 477370     | 48.571   | ug/l   | 100      |
| 31) Cyclohexane              | 7.707          | 56   | 382977     | 47.314   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 425024     | 48.403   | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 343220     | 50.613   | ug/l   | 100      |
| 37) Ethyl Acetate            | 6.988          | 43   | 135316     | 50.163   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 391444     | 50.167   | ug/l   | 100      |
| 39) Methylcyclohexane        | 9.109          | 83   | 451750     | 52.073   | ug/l   | 100      |
| 40) Benzene                  | 8.085          | 78   | 1066603    | 50.603   | ug/l   | 100      |

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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.232  | 41   | 70443m   | 47.001   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 267863   | 49.914   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 270339   | 51.526   | ug/l   | 100      |
| 44) Trichloroethene           | 8.866  | 130  | 296655   | 50.530   | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 237691   | 49.932   | ug/l   | 100      |
| 46) Dibromomethane            | 9.238  | 93   | 146260   | 50.452   | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.427  | 83   | 369052   | 50.602   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.219  | 41   | 130598   | 53.403   | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.231  | 88   | 29659    | 1007.857 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 705200   | 262.721  | ug/l   | 100      |
| 52) Toluene                   | 10.176 | 92   | 698056   | 52.186   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 327439   | 52.147   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 386725   | 51.543   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 195025   | 50.573   | ug/l   | 100      |
| 56) Ethyl methacrylate        | 10.439 | 69   | 242372   | 54.250   | ug/l   | 100      |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 321373   | 51.334   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 546457   | 280.634  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.762 | 43   | 490109   | 264.125  | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.914 | 129  | 267186   | 51.065   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 183355   | 50.741   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.652 | 164  | 355533   | 51.342   | ug/l   | 100      |
| 65) Chlorobenzene             | 11.444 | 112  | 768569   | 50.493   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 268927   | 50.336   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.518 | 91   | 1302238  | 52.368   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 1046889  | 105.137  | ug/l   | 100      |
| 69) o-Xylene                  | 11.957 | 106  | 488210   | 52.964   | ug/l   | 100      |
| 70) Styrene                   | 11.969 | 104  | 824921   | 53.998   | ug/l   | 100      |
| 71) Bromoform                 | 12.133 | 173  | 160560   | 50.465   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.255 | 105  | 1261495  | 52.581   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 237152   | 52.296   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 198241   | 49.235   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 182296m  | 46.261   | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 313012   | 51.068   | ug/l   | 100      |
| 78) n-propylbenzene           | 12.597 | 91   | 1495542  | 52.889   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 846258   | 51.960   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 1031398  | 52.858   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 66100    | 49.977   | ug/l   | 100      |
| 82) 4-Chlorotoluene           | 12.780 | 91   | 875904   | 51.398   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 927426   | 52.479   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 1030176  | 53.367   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.176 | 105  | 1354129  | 52.663   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 1162434  | 53.519   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 620504   | 51.159   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 603738   | 50.256   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.615 | 91   | 1036061  | 53.786   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.877 | 117  | 234170   | 49.730   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 539018   | 50.970   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 30972    | 49.023   | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 322364   | 52.259   | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 193854   | 50.827   | ug/l   | 100      |
| 95) Naphthalene               | 15.145 | 128  | 541174   | 54.583   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 280256   | 52.314   | ug/l   | 100      |

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

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