

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY061625\  
 Data File : VY022695.D  
 Acq On : 16 Jun 2025 08:31  
 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 : Semsettin Yesilyurt 06/17/2025  
 Supervised By : Mahesh Dadoda 06/17/2025

Quant Time: Jun 17 05:49:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060225S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 10 15:26:14 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.719          | 168  | 174388              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.621          | 114  | 289069              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.420         | 117  | 247096              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346         | 152  | 115228              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.067          | 65   | 98919               | 50.716  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 101.440% |         |        |          |
| 35) Dibromofluoromethane     | 7.640          | 113  | 91453               | 53.004  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.000% |         |        |          |
| 50) Toluene-d8               | 10.109         | 98   | 366240              | 52.532  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 105.060% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.407         | 95   | 107571              | 51.786  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 103.580% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.867          | 85   | 69519               | 44.527  | ug/l   | 97       |
| 3) Chloromethane             | 2.068          | 50   | 226633              | 49.135  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.208          | 62   | 288044              | 53.832  | ug/l   | 99       |
| 5) Bromomethane              | 2.598          | 94   | 223301              | 43.541  | ug/l   | 100      |
| 6) Chloroethane              | 2.738          | 64   | 190430              | 51.850  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.055          | 101  | 235260              | 51.791  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.458          | 74   | 51708               | 50.546  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.817          | 101  | 96666               | 50.527  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.006          | 142  | 106575              | 51.476  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.872          | 59   | 34023               | 244.231 | ug/l # | 73       |
| 12) 1,1-Dichloroethene       | 3.793          | 96   | 93902               | 51.348  | ug/l   | 97       |
| 13) Acrolein                 | 3.659          | 56   | 23352               | 134.507 | ug/l   | 100      |
| 14) Allyl chloride           | 4.390          | 41   | 145540              | 50.695  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.067          | 53   | 110892              | 255.955 | ug/l   | 99       |
| 16) Acetone                  | 3.878          | 43   | 119485              | 301.650 | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.110          | 76   | 280330              | 47.880  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.390          | 43   | 56786               | 48.412  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.128          | 73   | 257915              | 50.072  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.622          | 84   | 105279              | 46.790  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.128          | 96   | 104665              | 51.138  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.024          | 45   | 328550              | 51.414  | ug/l   | 99       |
| 23) Vinyl Acetate            | 5.969          | 43   | 939392              | 248.368 | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.921          | 63   | 200472              | 53.252  | ug/l   | 99       |
| 25) 2-Butanone               | 6.902          | 43   | 153107              | 267.970 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.896          | 77   | 184026              | 55.325  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.896          | 96   | 124259              | 52.525  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.256          | 49   | 81221               | 49.494  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.268          | 42   | 89610               | 243.169 | ug/l   | 100      |
| 30) Chloroform               | 7.427          | 83   | 199747              | 53.568  | ug/l   | 96       |
| 31) Cyclohexane              | 7.707          | 56   | 175269              | 46.765  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.622          | 97   | 177894              | 53.742  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.841          | 75   | 148488              | 53.025  | ug/l   | 99       |
| 37) Ethyl Acetate            | 6.994          | 43   | 61433               | 49.193  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.823          | 117  | 155538              | 54.143  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.115          | 83   | 190922              | 50.734  | ug/l   | 98       |
| 40) Benzene                  | 8.085          | 78   | 444852              | 53.785  | ug/l   | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

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 ClientSampleId :  
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Manual Integrations  
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Quant Time: Jun 17 05:49:41 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y060225S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 10 15:26:14 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.225  | 41   | 35934m   | 49.263  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.164  | 62   | 120862   | 53.518  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.201  | 43   | 136175   | 50.490  | ug/l   | 99       |
| 44) Trichloroethene           | 8.871  | 130  | 109923   | 54.378  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 106699   | 54.586  | ug/l   | 100      |
| 46) Dibromomethane            | 9.237  | 93   | 56327    | 51.221  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.426  | 83   | 156346   | 56.070  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.225  | 41   | 61103    | 48.272  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.237  | 88   | 12416    | 953.015 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 348299   | 259.021 | ug/l   | 99       |
| 52) Toluene                   | 10.176 | 92   | 277847   | 53.455  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 138667   | 53.075  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 164783   | 54.182  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.572 | 97   | 73841    | 52.659  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.444 | 69   | 103924   | 51.277  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.719 | 76   | 131996   | 53.110  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 257969   | 280.349 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.761 | 43   | 239036   | 265.800 | ug/l   | 99       |
| 60) Dibromochloromethane      | 10.914 | 129  | 95700    | 53.703  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.017 | 107  | 68002    | 53.207  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.652 | 164  | 125705   | 59.140  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.444 | 112  | 289700   | 52.982  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131  | 98730    | 53.599  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.523 | 91   | 545428   | 53.780  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.633 | 106  | 414254   | 107.748 | ug/l   | 100      |
| 69) o-Xylene                  | 11.956 | 106  | 192134   | 53.302  | ug/l   | 100      |
| 70) Styrene                   | 11.968 | 104  | 321446   | 53.948  | ug/l   | 99       |
| 71) Bromoform                 | 12.133 | 173  | 51977    | 53.026  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.255 | 105  | 506645   | 53.555  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.072 | 43   | 119948   | 50.251  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 76474    | 49.254  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.560 | 75   | 63452m   | 48.133  | ug/l   |          |
| 77) Bromobenzene              | 12.535 | 156  | 104365   | 52.278  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.596 | 91   | 623894   | 53.995  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.682 | 91   | 327036   | 53.402  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 400018   | 53.859  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 25980    | 47.593  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.779 | 91   | 340887   | 53.959  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.999 | 119  | 356717   | 53.513  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.041 | 105  | 400978   | 53.979  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 552081   | 54.077  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.291 | 119  | 450726   | 53.561  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.291 | 146  | 218598   | 54.045  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.364 | 146  | 208563   | 53.164  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.621 | 91   | 432928   | 54.225  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.883 | 117  | 90202    | 55.059  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.663 | 146  | 182696   | 53.200  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 11774    | 52.084  | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 96629    | 51.592  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 53481    | 51.735  | ug/l   | 97       |
| 95) Naphthalene               | 15.145 | 128  | 176934   | 49.227  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 81492    | 50.769  | ug/l   | 99       |

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QLast Update : Tue Jun 10 15:26:14 2025  
Response via : Initial Calibration

| 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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