

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051625\  
 Data File : VD080380.D  
 Acq On : 16 May 2025 19:28  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: May 17 01:24:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050625S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 07 08:57:11 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025  
 Supervised By :Semsettin Yesilyurt 05/19/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.876          | 168  | 129912     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.776          | 114  | 220054     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.582         | 117  | 204161     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.517         | 152  | 104244     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.229          | 65   | 80030      | 47.637   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.280%  |        |          |
| 35) Dibromofluoromethane     | 7.806          | 113  | 75783      | 51.382   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 102.760% |        |          |
| 50) Toluene-d8               | 10.270         | 98   | 288203     | 49.594   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 99.180%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.570         | 95   | 92460      | 49.571   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 99.140%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.935          | 85   | 66576      | 59.428   | ug/l   | 100      |
| 3) Chloromethane             | 2.147          | 50   | 99328      | 43.894   | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.288          | 62   | 122471     | 36.263   | ug/l   | 95       |
| 5) Bromomethane              | 2.694          | 94   | 82035      | 33.745   | ug/l   | 97       |
| 6) Chloroethane              | 2.835          | 64   | 87623      | 36.694   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.176          | 101  | 126879     | 48.994   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.594          | 74   | 42171      | 52.754   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.965          | 101  | 78036      | 48.908   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.165          | 142  | 98590      | 60.615   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.047          | 59   | 25553      | 250.660  | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 3.941          | 96   | 76179      | 48.428   | ug/l   | 96       |
| 13) Acrolein                 | 3.794          | 56   | 11068      | 61.706   | ug/l   | 97       |
| 14) Allyl chloride           | 4.559          | 41   | 118636     | 47.954   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.253          | 53   | 93778      | 244.013  | ug/l   | 99       |
| 16) Acetone                  | 4.023          | 43   | 67392      | 261.977  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.276          | 76   | 264970     | 48.508   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.559          | 43   | 74567      | 68.595   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 5.317          | 73   | 195137     | 56.467   | ug/l   | 96       |
| 20) Methylene Chloride       | 4.806          | 84   | 100151     | 56.303   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.312          | 96   | 87105      | 50.972   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.217          | 45   | 260183     | 51.054   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.159          | 43   | 677754     | 228.343  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.112          | 63   | 161240     | 50.280   | ug/l   | 99       |
| 25) 2-Butanone               | 7.082          | 43   | 110414     | 238.868  | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.076          | 77   | 117874     | 46.193   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.082          | 96   | 101129     | 53.413   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.429          | 49   | 67150      | 44.973   | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.447          | 42   | 75589      | 250.804  | ug/l   | 100      |
| 30) Chloroform               | 7.600          | 83   | 166721     | 52.133   | ug/l   | 98       |
| 31) Cyclohexane              | 7.882          | 56   | 126975     | 46.522   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 7.788          | 97   | 132882     | 50.931   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.011          | 75   | 113028     | 51.277   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.164          | 43   | 51478      | 44.661   | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.988          | 117  | 115891     | 50.414   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.276          | 83   | 126132     | 49.313   | ug/l   | 98       |
| 40) Benzene                  | 8.253          | 78   | 351234     | 50.855   | ug/l   | 99       |

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 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025  
 Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:24:40 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050625S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 07 08:57:11 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.394  | 41   | 32745    | 51.336   | ug/l # | 87       |
| 42) 1,2-Dichloroethane        | 8.323  | 62   | 98707    | 49.321   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.359  | 43   | 98879    | 47.308   | ug/l   | 99       |
| 44) Trichloroethene           | 9.029  | 130  | 82572    | 51.503   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.306  | 63   | 87673    | 49.496   | ug/l   | 99       |
| 46) Dibromomethane            | 9.394  | 93   | 51323    | 53.217   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.588  | 83   | 128504   | 52.497   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.382  | 41   | 53212    | 53.581   | ug/l   | 96       |
| 49) 1,4-Dioxane               | 9.382  | 88   | 12001    | 1046.665 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.158 | 43   | 270192   | 250.891  | ug/l   | 100      |
| 52) Toluene                   | 10.335 | 92   | 214970   | 51.664   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.553 | 75   | 112749   | 50.525   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.017 | 75   | 131741   | 50.945   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.729 | 97   | 65579    | 51.407   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.594 | 69   | 84555    | 54.700   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.876 | 76   | 111137   | 52.419   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.870  | 63   | 173037   | 273.529  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.917 | 43   | 182892   | 246.877  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.070 | 129  | 86402    | 54.046   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.176 | 107  | 62293    | 52.661   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.805 | 164  | 68991    | 49.902   | ug/l   | 91       |
| 65) Chlorobenzene             | 11.605 | 112  | 232720   | 50.483   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.682 | 131  | 81326    | 51.349   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.682 | 91   | 401548   | 52.124   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.794 | 106  | 314398   | 105.108  | ug/l   | 99       |
| 69) o-Xylene                  | 12.117 | 106  | 143752   | 52.592   | ug/l   | 98       |
| 70) Styrene                   | 12.135 | 104  | 258779   | 52.725   | ug/l   | 99       |
| 71) Bromoform                 | 12.294 | 173  | 49049    | 52.126   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.417 | 105  | 368942   | 54.560   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.229 | 43   | 91094    | 46.937   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.670 | 83   | 79095    | 53.190   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.723 | 75   | 46381m   | 46.100   | ug/l   |          |
| 77) Bromobenzene              | 12.699 | 156  | 93388    | 53.242   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.758 | 91   | 459207   | 54.114   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.847 | 91   | 267543   | 54.202   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.899 | 105  | 319547   | 55.404   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.464 | 75   | 26774    | 50.514   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.941 | 91   | 279526   | 52.462   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.164 | 119  | 262622   | 54.566   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.211 | 105  | 322437   | 54.640   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.341 | 105  | 397242   | 53.523   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.458 | 119  | 335905   | 53.851   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.458 | 146  | 186193   | 50.901   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.535 | 146  | 183113   | 49.655   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.788 | 91   | 313788   | 51.821   | ug/l   | 100      |
| 90) Hexachloroethane          | 14.052 | 117  | 69570    | 50.407   | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.829 | 146  | 163556   | 51.471   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.441 | 75   | 11990    | 50.591   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.099 | 180  | 102718   | 51.401   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.199 | 225  | 51628    | 49.659   | ug/l   | 97       |
| 95) Naphthalene               | 15.329 | 128  | 199419   | 53.146   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.517 | 180  | 94863    | 53.076   | ug/l   | 98       |

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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
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Manual Integrations  
APPROVED

Reviewed By :Mahesh Dadoda 05/19/2025  
Supervised By :Semsettin Yesilyurt 05/19/2025

Quant Time: May 17 01:24:40 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D050625S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 07 08:57:11 2025  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

