

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082225\  
 Data File : VY023189.D  
 Acq On : 22 Aug 2025 13:31  
 Operator : SY/MD  
 Sample : Q2893-02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

Quant Time: Aug 25 05:15:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/25/2025  
 Supervised By : Mahesh Dadoda 08/25/2025

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Pentafluorobenzene        | 7.713  | 168   | 437778   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616  | 114   | 720859   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 11.414 | 117   | 615924   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.347 | 152   | 293369   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 8.067  | 65    | 213415   | 51.150   | ug/l       | 0.01     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | = 102.300% |          |
| 35) Dibromofluoromethane     | 7.634  | 113   | 224428   | 52.031   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | = 104.060% |          |
| 50) Toluene-d8               | 10.109 | 98    | 834993   | 49.553   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 134 | Recovery | = 99.100%  |          |
| 62) 4-Bromofluorobenzene     | 12.408 | 95    | 246695   | 45.523   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 30 - 143 | Recovery | = 91.040%  |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.867  | 85    | 20925    | 5.856    | ug/l       | 100      |
| 3) Chloromethane             | 2.068  | 50    | 34584    | 5.975    | ug/l       | 93       |
| 4) Vinyl Chloride            | 2.202  | 62    | 42891    | 5.995    | ug/l       | 97       |
| 5) Bromomethane              | 2.598  | 94    | 36600    | 6.850    | ug/l       | 100      |
| 6) Chloroethane              | 2.739  | 64    | 28338    | 5.958    | ug/l       | 97       |
| 7) Trichlorofluoromethane    | 3.062  | 101   | 47666    | 5.479    | ug/l       | 95       |
| 8) Diethyl Ether             | 3.458  | 74    | 15067    | 6.546    | ug/l       | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 3.812  | 101   | 25882    | 6.030    | ug/l       | 96       |
| 10) Methyl Iodide            | 4.007  | 142   | 22776    | 4.918    | ug/l       | 99       |
| 11) Tert butyl alcohol       | 4.866  | 59    | 6291m    | 22.005   | ug/l       |          |
| 12) 1,1-Dichloroethene       | 3.793  | 96    | 24221    | 5.741    | ug/l       | 90       |
| 13) Acrolein                 | 3.659  | 56    | 7092     | 16.939   | ug/l       | 96       |
| 14) Allyl chloride           | 4.385  | 41    | 29936    | 4.823    | ug/l       | 98       |
| 15) Acrylonitrile            | 5.061  | 53    | 23773    | 25.406   | ug/l       | 95       |
| 16) Acetone                  | 3.873  | 43    | 23932    | 26.476   | ug/l       | 96       |
| 17) Carbon Disulfide         | 4.104  | 76    | 75491    | 5.488    | ug/l       | 97       |
| 18) Methyl Acetate           | 4.391  | 43    | 13587    | 5.051    | ug/l       | 96       |
| 19) Methyl tert-butyl Ether  | 5.122  | 73    | 53282    | 4.874    | ug/l       | 98       |
| 20) Methylene Chloride       | 4.622  | 84    | 59675    | 10.561   | ug/l       | 95       |
| 21) trans-1,2-Dichloroethene | 5.116  | 96    | 26357    | 5.560    | ug/l       | 92       |
| 22) Diisopropyl ether        | 6.019  | 45    | 64743    | 4.800    | ug/l #     | 89       |
| 23) Vinyl Acetate            | 5.964  | 43    | 162694   | 21.813   | ug/l       | 96       |
| 24) 1,1-Dichloroethane       | 5.909  | 63    | 45340    | 5.498    | ug/l       | 98       |
| 25) 2-Butanone               | 6.903  | 43    | 28710    | 23.354   | ug/l       | 98       |
| 26) 2,2-Dichloropropane      | 6.884  | 77    | 40167    | 5.645    | ug/l       | 99       |
| 27) cis-1,2-Dichloroethene   | 6.896  | 96    | 30168    | 5.504    | ug/l       | 94       |
| 28) Bromochloromethane       | 7.250  | 49    | 16958    | 5.183    | ug/l       | 99       |
| 29) Tetrahydrofuran          | 7.262  | 42    | 17078    | 22.411   | ug/l       | 98       |
| 30) Chloroform               | 7.427  | 83    | 48645    | 5.719    | ug/l       | 93       |
| 31) Cyclohexane              | 7.707  | 56    | 43923    | 5.652    | ug/l #     | 84       |
| 32) 1,1,1-Trichloroethane    | 7.622  | 97    | 42836    | 5.676    | ug/l       | 98       |
| 36) 1,1-Dichloropropene      | 7.835  | 75    | 33791    | 5.271    | ug/l       | 98       |
| 37) Ethyl Acetate            | 6.988  | 43    | 12029    | 4.467    | ug/l #     | 92       |
| 38) Carbon Tetrachloride     | 7.823  | 117   | 37681    | 5.412    | ug/l       | 98       |
| 39) Methylcyclohexane        | 9.116  | 83    | 41435    | 4.908    | ug/l       | 90       |
| 40) Benzene                  | 8.085  | 78    | 106668   | 5.399    | ug/l       | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

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 MSVOA\_Y  
 ClientSampleId :  
 LOQ-SOIL-02-QT3-2025

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/25/2025  
 Supervised By :Mahesh Dadoda 08/25/2025

Quant Time: Aug 25 05:15:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 13 02:10:11 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.220  | 41   | 6931m    | 4.460  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.165  | 62   | 26538    | 5.165  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.201  | 43   | 25460    | 4.678  | ug/l # | 84       |
| 44) Trichloroethene           | 8.866  | 130  | 28531    | 5.588  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.146  | 63   | 24657    | 5.424  | ug/l   | 94       |
| 46) Dibromomethane            | 9.231  | 93   | 13592    | 5.209  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.426  | 83   | 37063    | 5.520  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.219  | 41   | 9516     | 3.654  | ug/l # | 81       |
| 49) 1,4-Dioxane               | 9.237  | 88   | 2692     | 87.990 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.000 | 43   | 58201    | 20.731 | ug/l   | 98       |
| 52) Toluene                   | 10.170 | 92   | 65199    | 5.196  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.396 | 75   | 29040    | 4.776  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.859  | 75   | 34221    | 4.760  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 18282    | 5.236  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 17872    | 4.000  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 30036    | 5.073  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 41835    | 19.851 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.762 | 43   | 36787    | 19.243 | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.914 | 129  | 24051    | 5.221  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.018 | 107  | 16815    | 5.124  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.646 | 164  | 30047    | 5.463  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.438 | 112  | 71285    | 5.366  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131  | 24673    | 5.472  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.518 | 91   | 110596   | 4.837  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.627 | 106  | 86470    | 9.684  | ug/l   | 97       |
| 69) o-Xylene                  | 11.950 | 106  | 39003    | 4.664  | ug/l   | 96       |
| 70) Styrene                   | 11.969 | 104  | 62987    | 4.605  | ug/l   | 97       |
| 71) Bromoform                 | 12.133 | 173  | 13584    | 5.155  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.255 | 105  | 101031   | 4.879  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.072 | 43   | 17194    | 3.916  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 19429    | 5.495  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 16082m   | 5.680  | ug/l   |          |
| 77) Bromobenzene              | 12.530 | 156  | 26846    | 5.435  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.591 | 91   | 124449   | 5.048  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 72404    | 5.126  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 82882    | 4.953  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 5638     | 4.820  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 75180    | 5.131  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.993 | 119  | 73675    | 4.875  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 80332    | 4.822  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 107944   | 4.862  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 87972    | 4.774  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.286 | 146  | 53010    | 5.442  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 52144    | 5.396  | ug/l   | 93       |
| 89) n-Butylbenzene            | 13.615 | 91   | 79859    | 4.718  | ug/l   | 97       |
| 90) Hexachloroethane          | 13.877 | 117  | 21863    | 5.795  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 45376    | 5.311  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 2729     | 4.958  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 23988    | 4.748  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 15727    | 5.298  | ug/l   | 96       |
| 95) Naphthalene               | 15.145 | 128  | 33094    | 3.842  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.322 | 180  | 20898    | 4.800  | ug/l   | 97       |

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Quant Title : SW846 8260  
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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

