

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062625\  
 Data File : VY022838.D  
 Acq On : 26 Jun 2025 10:07  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 27 01:23:13 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062325S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 24 08:29:52 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.428 | 0.440 | -2.8  | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.816 | 0.752 | 7.8   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.020 | 0.980 | 3.9#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.802 | 0.762 | 5.0   | 100   | 0.00     |
| 6 T   | Chloroethane                | 0.686 | 0.667 | 2.8   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.129 | 1.082 | 4.2   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.279 | 0.288 | -3.2  | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.516 | 0.546 | -5.8  | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 0.562 | 0.642 | -14.2 | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.037 | 0.0   | 96    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.506 | 0.545 | -7.7# | 107   | 0.00     |
| 13 T  | Acrolein                    | 0.050 | 0.044 | 12.0  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 0.778 | 0.826 | -6.2  | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 0.116 | 0.123 | -6.0  | 102   | 0.00     |
| 16 T  | Acetone                     | 0.105 | 0.131 | -24.8 | 138   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.635 | 1.715 | -4.9  | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.349 | 0.323 | 7.4   | 93    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.378 | 1.465 | -6.3  | 103   | -0.01    |
| 20 T  | Methylene Chloride          | 0.666 | 0.634 | 4.8   | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.578 | 0.608 | -5.2  | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.729 | 1.830 | -5.8  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.955 | 1.047 | -9.6  | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.044 | 1.094 | -4.8  | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 0.154 | 0.172 | -11.7 | 113   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.875 | 0.977 | -11.7 | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.672 | 0.699 | -4.0  | 103   | 0.00     |
| 28 T  | Bromochloromethane          | 0.439 | 0.426 | 3.0   | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.097 | 0.101 | -4.1  | 100   | 0.00     |
| 30 C  | Chloroform                  | 1.076 | 1.110 | -3.2# | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 0.959 | 1.000 | -4.3  | 107   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.929 | 0.993 | -6.9  | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.558 | 0.541 | 3.0   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.304 | 0.302 | 0.7   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.461 | 0.509 | -10.4 | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.199 | 0.211 | -6.0  | 100   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.486 | 0.541 | -11.3 | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.596 | 0.679 | -13.9 | 108   | 0.00     |
| 40 TM | Benzene                     | 1.417 | 1.540 | -8.7  | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.122 | 0.125 | -2.5  | 103   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.388 | 0.410 | -5.7  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.413 | 0.442 | -7.0  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 0.356 | 0.385 | -8.1  | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.332 | 0.357 | -7.5# | 103   | 0.00     |
| 46 T  | Dibromomethane              | 0.188 | 0.199 | -5.9  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.522 | -7.6  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.199 | 0.217 | -9.0  | 99    | 0.00     |

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 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 92    | -0.01    |
| 50 S  | Toluene-d8                  | 1.207 | 1.223 | -1.3   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.210 | 0.232 | -10.5  | 101   | 0.00     |
| 52 CM | Toluene                     | 0.894 | 0.997 | -11.5# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.437 | 0.479 | -9.6   | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.506 | 0.554 | -9.5   | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.244 | 0.262 | -7.4   | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.328 | 0.362 | -10.4  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.425 | 0.455 | -7.1   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.145 | 0.164 | -13.1  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.143 | 0.165 | -15.4  | 106   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.315 | 0.338 | -7.3   | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.245 | -7.5   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.388 | 0.390 | -0.5   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.472 | 0.516 | -9.3   | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.099 | 1.206 | -9.7   | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.372 | 0.402 | -8.1   | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.930 | 2.192 | -13.6# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.746 | 0.854 | -14.5  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 0.703 | 0.798 | -13.5  | 105   | 0.00     |
| 70 T  | Styrene                     | 1.178 | 1.349 | -14.5  | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.207 | 0.220 | -6.3   | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.698 | 4.255 | -15.1  | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 0.830 | 0.959 | -15.5  | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.596 | 0.638 | -7.0   | 107   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.510 | 0.504 | 1.2    | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.838 | 0.924 | -10.3  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 4.465 | 5.156 | -15.5  | 108   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.522 | 2.823 | -11.9  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.985 | 3.437 | -15.1  | 107   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.202 | 0.225 | -11.4  | 108   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.650 | 2.946 | -11.2  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.633 | 3.060 | -16.2  | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.989 | 3.411 | -14.1  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.961 | 4.604 | -16.2  | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.296 | 3.805 | -15.4  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.683 | 1.856 | -10.3  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.672 | 1.815 | -8.6   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.101 | 3.579 | -15.4  | 106   | 0.00     |
| 90 T  | Hexachloroethane            | 0.657 | 0.712 | -8.4   | 101   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.483 | 1.605 | -8.2   | 102   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.101 | 0.101 | 0.0    | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.838 | 0.856 | -2.1   | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.474 | 0.476 | -0.4   | 98    | 0.00     |
| 95 T  | Naphthalene                 | 1.515 | 1.580 | -4.3   | 94    | 0.00     |

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Quant Title : SW846 8260  
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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.724 | 0.712 | 1.7  | 93    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6