

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051925\  
 Data File : VY022327.D  
 Acq On : 19 May 2025 18:52  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 20 01:17:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 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    | 57    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.522 | 0.479 | 8.2    | 54    | 0.00     |
| 3 P   | Chloromethane               | 1.097 | 1.513 | -37.9# | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.226 | 1.798 | -46.7# | 85    | 0.00     |
| 5 T   | Bromomethane                | 0.998 | 1.476 | -47.9# | 96    | 0.00     |
| 6 T   | Chloroethane                | 0.763 | 1.233 | -61.6# | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.241 | 1.410 | -13.6  | 66    | 0.00     |
| 8 T   | Diethyl Ether               | 0.298 | 0.319 | -7.0   | 62    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.541 | -0.4   | 57    | 0.00     |
| 10 T  | Methyl Iodide               | 0.624 | 0.671 | -7.5   | 56    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.042 | 0.044 | -4.8   | 65    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.535 | 0.556 | -3.9#  | 59    | 0.00     |
| 13 T  | Acrolein                    | 0.061 | 0.037 | 39.3#  | 38#   | 0.00     |
| 14 T  | Allyl chloride              | 0.938 | 0.880 | 6.2    | 53    | 0.00     |
| 15 T  | Acrylonitrile               | 0.123 | 0.133 | -8.1   | 63    | 0.00     |
| 16 T  | Acetone                     | 0.102 | 0.096 | 5.9    | 59    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.744 | 1.749 | -0.3   | 57    | 0.00     |
| 18 T  | Methyl Acetate              | 0.323 | 0.440 | -36.2# | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.475 | 1.596 | -8.2   | 63    | 0.00     |
| 20 T  | Methylene Chloride          | 0.662 | 0.635 | 4.1    | 61    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.590 | 0.606 | -2.7   | 58    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.980 | 1.996 | -0.8   | 57    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.196 | 1.118 | 6.5    | 54    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.106 | 1.144 | -3.4   | 59    | 0.00     |
| 25 T  | 2-Butanone                  | 0.171 | 0.171 | 0.0    | 61    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.984 | 0.929 | 5.6    | 54    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.681 | 0.721 | -5.9   | 60    | 0.00     |
| 28 T  | Bromochloromethane          | 0.472 | 0.498 | -5.5   | 60    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.110 | 0.117 | -6.4   | 63    | 0.00     |
| 30 C  | Chloroform                  | 1.061 | 1.154 | -8.8#  | 61    | 0.00     |
| 31 T  | Cyclohexane                 | 1.105 | 1.010 | 8.6    | 55    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.974 | 0.992 | -1.8   | 59    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.546 | 0.576 | -5.5   | 61    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 61    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.298 | 0.298 | 0.0    | 61    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.492 | 0.466 | 5.3    | 57    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.237 | 0.225 | 5.1    | 59    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.509 | 0.482 | 5.3    | 57    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.660 | 0.605 | 8.3    | 55    | 0.00     |
| 40 TM | Benzene                     | 1.457 | 1.451 | 0.4    | 59    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.157 | 0.140 | 10.8   | 54    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.394 | 0.396 | -0.5   | 61    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.516 | 0.493 | 4.5    | 59    | 0.00     |
| 44 TM | Trichloroethene             | 0.362 | 0.359 | 0.8    | 59    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.351 | 0.346 | 1.4#   | 59    | 0.00     |
| 46 T  | Dibromomethane              | 0.189 | 0.199 | -5.3   | 65    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.492 | 0.503 | -2.2   | 61    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.241 | 0.223 | 7.5    | 57    | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 20 01:17:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 16 01:42:09 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) |
|-------|-----------------------------|-------|-------|------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0  | 70    | 0.00     |
| 50 S  | Toluene-d8                  | 1.222 | 1.209 | 1.1  | 60    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.253 | 0.254 | -0.4 | 62    | 0.00     |
| 52 CM | Toluene                     | 0.923 | 0.912 | 1.2# | 59    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.480 | 0.470 | 2.1  | 59    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.550 | 0.543 | 1.3  | 59    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.243 | 0.249 | -2.5 | 63    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.378 | 0.381 | -0.8 | 61    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.431 | 0.451 | -4.6 | 63    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.170 | 0.173 | -1.8 | 58    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.170 | 0.168 | 1.2  | 62    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.315 | 0.326 | -3.5 | 62    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.226 | 0.235 | -4.0 | 63    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.387 | 0.373 | 3.6  | 59    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 62    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.462 | 0.450 | 2.6  | 59    | 0.00     |
| 65 PM | Chlorobenzene               | 1.128 | 1.113 | 1.3  | 60    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.388 | 0.379 | 2.3  | 60    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.113 | 2.036 | 3.6# | 58    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.796 | 0.765 | 3.9  | 58    | 0.00     |
| 69 T  | o-Xylene                    | 0.753 | 0.734 | 2.5  | 59    | 0.00     |
| 70 T  | Styrene                     | 1.270 | 1.254 | 1.3  | 60    | 0.00     |
| 71 P  | Bromoform                   | 0.209 | 0.207 | 1.0  | 62    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 63    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.142 | 3.885 | 6.2  | 58    | 0.00     |
| 74 T  | N-amyl acetate              | 1.185 | 1.037 | 12.5 | 56    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.637 | 0.642 | -0.8 | 64    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.507 | 0.457 | 9.9  | 57    | 0.00     |
| 77 T  | Bromobenzene                | 0.885 | 0.855 | 3.4  | 60    | 0.00     |
| 78 T  | n-propylbenzene             | 4.996 | 4.666 | 6.6  | 57    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.746 | 2.571 | 6.4  | 58    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.344 | 3.110 | 7.0  | 57    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.250 | 0.224 | 10.4 | 59    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.824 | 2.620 | 7.2  | 57    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.972 | 2.777 | 6.6  | 58    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.319 | 3.110 | 6.3  | 57    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.412 | 4.116 | 6.7  | 57    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.710 | 3.438 | 7.3  | 57    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.806 | 1.710 | 5.3  | 58    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.737 | 1.639 | 5.6  | 59    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.510 | 3.210 | 8.5  | 55    | 0.00     |
| 90 T  | Hexachloroethane            | 0.749 | 0.686 | 8.4  | 57    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.517 | 1.463 | 3.6  | 60    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.103 | 0.100 | 2.9  | 63    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.876 | 0.798 | 8.9  | 56    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.489 | 0.416 | 14.9 | 52    | 0.00     |
| 95 T  | Naphthalene                 | 1.663 | 1.639 | 1.4  | 62    | 0.00     |

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VSTDCCC050

Quant Time: May 20 01:17:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051525S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 16 01:42:09 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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.743 | 0.686 | 7.7  | 57    | 0.00     |

(#) = Out of Range

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