

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY052725\  
 Data File : VY022438.D  
 Acq On : 27 May 2025 17:10  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 28 08:06:20 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y052725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 28 10:34:06 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.477 | 0.425 | 10.9   | 86    | 0.00     |
| 3 P   | Chloromethane               | 1.173 | 1.106 | 5.7    | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.425 | 1.527 | -7.2#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 1.295 | 1.291 | 0.3    | 87    | 0.00     |
| 6 T   | Chloroethane                | 0.931 | 1.055 | -13.3  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.203 | 1.361 | -13.1  | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 0.277 | 0.301 | -8.7   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.528 | 0.526 | 0.4    | 87    | 0.00     |
| 10 T  | Methyl Iodide               | 0.595 | 0.616 | -3.5   | 82    | -0.01    |
| 11 T  | Tert butyl alcohol          | 0.037 | 0.044 | -18.9  | 106   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.524 | 0.531 | -1.3#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.056 | 0.057 | -1.8   | 87    | 0.00     |
| 14 T  | Allyl chloride              | 0.788 | 0.805 | -2.2   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.112 | 0.127 | -13.4  | 98    | -0.01    |
| 16 T  | Acetone                     | 0.087 | 0.096 | -10.3  | 97    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.672 | 1.662 | 0.6    | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.324 | 0.450 | -38.9# | 125   | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.391 | 1.518 | -9.1   | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.611 | 0.612 | -0.2   | 96    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 0.572 | 0.583 | -1.9   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.739 | 1.842 | -5.9   | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.999 | 1.005 | -0.6   | 86    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 1.028 | 1.072 | -4.3   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.144 | 0.164 | -13.9  | 100   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.931 | 0.899 | 3.4    | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.662 | 0.689 | -4.1   | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.429 | 0.468 | -9.1   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.096 | 0.110 | -14.6  | 99    | 0.00     |
| 30 C  | Chloroform                  | 1.013 | 1.082 | -6.8#  | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 1.013 | 0.951 | 6.1    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.919 | 0.931 | -1.3   | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.527 | 0.559 | -6.1   | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.293 | 0.304 | -3.8   | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.465 | 0.462 | 0.6    | 87    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.197 | 0.213 | -8.1   | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.484 | 0.491 | -1.4   | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.618 | 0.604 | 2.3    | 85    | 0.00     |
| 40 TM | Benzene                     | 1.383 | 1.435 | -3.8   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.120 | 0.131 | -9.2   | 97    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.365 | 0.389 | -6.6   | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.432 | 0.478 | -10.6  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 0.342 | 0.357 | -4.4   | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.325 | 0.343 | -5.5#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.181 | 0.194 | -7.2   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.467 | 0.494 | -5.8   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.200 | 0.228 | -14.0  | 99    | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0   | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 1.194 | 1.227 | -2.8  | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.213 | 0.249 | -16.9 | 99    | 0.00     |
| 52 CM | Toluene                     | 0.864 | 0.906 | -4.9# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.435 | 0.460 | -5.7  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.511 | 0.534 | -4.5  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.229 | 0.249 | -8.7  | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.329 | 0.359 | -9.1  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.404 | 0.440 | -8.9  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.164 | 0.185 | -12.8 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.140 | 0.165 | -17.9 | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.293 | 0.322 | -9.9  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.210 | 0.233 | -11.0 | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.361 | 0.367 | -1.7  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.426 | 0.439 | -3.1  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.066 | 1.089 | -2.2  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.361 | 0.370 | -2.5  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.980 | 2.004 | -1.2# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.751 | 0.759 | -1.1  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.705 | 0.725 | -2.8  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.175 | 1.225 | -4.3  | 91    | 0.00     |
| 71 P  | Bromoform                   | 0.189 | 0.203 | -7.4  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.935 | 3.842 | 2.4   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 0.963 | 0.989 | -2.7  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.620 | 0.652 | -5.2  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.501 | 0.474 | 5.4   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 0.847 | 0.835 | 1.4   | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 4.723 | 4.664 | 1.2   | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.556 | 2.522 | 1.3   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.075 | 3.071 | 0.1   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.221 | 0.220 | 0.5   | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.633 | 2.590 | 1.6   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.778 | 2.774 | 0.1   | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.094 | 3.095 | -0.0  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.120 | 4.099 | 0.5   | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.440 | 3.417 | 0.7   | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.704 | 1.701 | 0.2   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.629 | 1.646 | -1.0  | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.226 | 3.208 | 0.6   | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.685 | 0.690 | -0.7  | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.423 | 1.481 | -4.1  | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.096 | 0.106 | -10.4 | 102   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.789 | 0.816 | -3.4  | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.414 | 0.414 | 0.0   | 88    | 0.00     |
| 95 T  | Naphthalene                 | 1.459 | 1.651 | -13.2 | 95    | 0.00     |

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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 | 0.647 | 0.696 | -7.6 | 91    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6