

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081925\  
 Data File : VY023137.D  
 Acq On : 19 Aug 2025 09:11  
 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: Aug 20 01:22:53 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

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   | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.408 | 0.339 | 16.9  | 101   | 0.00     |
| 3 P   | Chloromethane               | 0.661 | 0.565 | 14.5  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.817 | 0.743 | 9.1#  | 100   | 0.01     |
| 5 T   | Bromomethane                | 0.610 | 0.580 | 4.9   | 111   | 0.00     |
| 6 T   | Chloroethane                | 0.543 | 0.507 | 6.6   | 102   | 0.01     |
| 7 T   | Trichlorofluoromethane      | 0.994 | 0.908 | 8.7   | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 0.263 | 0.242 | 8.0   | 100   | 0.01     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.476 | 2.9   | 107   | 0.01     |
| 10 T  | Methyl Iodide               | 0.529 | 0.581 | -9.8  | 110   | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.028 | 15.2  | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.482 | 0.477 | 1.0#  | 107   | 0.01     |
| 13 T  | Acrolein                    | 0.048 | 0.022 | 54.2# | 50    | 0.00     |
| 14 T  | Allyl chloride              | 0.709 | 0.646 | 8.9   | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 0.107 | 0.100 | 6.5   | 98    | 0.01     |
| 16 T  | Acetone                     | 0.103 | 0.113 | -9.7  | 114   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.571 | 1.449 | 7.8   | 101   | 0.01     |
| 18 T  | Methyl Acetate              | 0.307 | 0.263 | 14.3  | 85    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.249 | 1.212 | 3.0   | 102   | 0.01     |
| 20 T  | Methylene Chloride          | 0.620 | 0.513 | 17.3  | 105   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.541 | 0.535 | 1.1   | 106   | 0.01     |
| 22 T  | Diisopropyl ether           | 1.541 | 1.473 | 4.4   | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.852 | 0.820 | 3.8   | 101   | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 0.942 | 0.908 | 3.6   | 103   | 0.01     |
| 25 T  | 2-Butanone                  | 0.140 | 0.137 | 2.1   | 100   | 0.01     |
| 26 T  | 2,2-Dichloropropane         | 0.813 | 0.836 | -2.8  | 110   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.626 | 0.626 | 0.0   | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 0.374 | 0.333 | 11.0  | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.087 | 0.079 | 9.2   | 94    | 0.00     |
| 30 C  | Chloroform                  | 0.971 | 0.958 | 1.3#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 0.888 | 0.821 | 7.5   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.862 | 0.864 | -0.2  | 107   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.477 | 0.431 | 9.6   | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.299 | 0.292 | 2.3   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.445 | 0.452 | -1.6  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.187 | 0.179 | 4.3   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.483 | 0.498 | -3.1  | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.586 | 0.607 | -3.6  | 110   | 0.00     |
| 40 TM | Benzene                     | 1.370 | 1.381 | -0.8  | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.108 | 0.101 | 6.5   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.356 | 0.342 | 3.9   | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.378 | 0.353 | 6.6   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.354 | 0.365 | -3.1  | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.315 | 0.316 | -0.3# | 105   | 0.00     |
| 46 T  | Dibromomethane              | 0.181 | 0.180 | 0.6   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.464 | 0.4   | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.181 | 0.174 | 3.9   | 95    | 0.00     |

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 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

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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   | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 1.169 | 1.150 | 1.6   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.195 | 0.188 | 3.6   | 96    | 0.00     |
| 52 CM | Toluene                     | 0.870 | 0.899 | -3.3# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.422 | 0.431 | -2.1  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.499 | 0.504 | -1.0  | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.242 | 0.243 | -0.4  | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.310 | 0.315 | -1.6  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.411 | 0.405 | 1.5   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.146 | 0.142 | 2.7   | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.133 | 0.135 | -1.5  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.320 | 0.326 | -1.9  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.228 | 0.229 | -0.4  | 104   | 0.01     |
| 62 S  | 4-Bromofluorobenzene        | 0.376 | 0.373 | 0.8   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.446 | 0.450 | -0.9  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 1.079 | 1.127 | -4.4  | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.366 | 0.387 | -5.7  | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.856 | 1.962 | -5.7# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.779 | -7.4  | 110   | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.732 | -7.8  | 108   | 0.00     |
| 70 T  | Styrene                     | 1.110 | 1.221 | -10.0 | 110   | 0.00     |
| 71 P  | Bromoform                   | 0.214 | 0.218 | -1.9  | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.529 | 3.707 | -5.0  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 0.748 | 0.727 | 2.8   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.603 | 0.586 | 2.8   | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.483 | 0.421 | 12.8  | 82    | 0.00     |
| 77 T  | Bromobenzene                | 0.842 | 0.858 | -1.9  | 108   | 0.00     |
| 78 T  | n-propylbenzene             | 4.201 | 4.437 | -5.6  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.407 | 2.484 | -3.2  | 108   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.852 | 3.036 | -6.5  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.199 | 0.198 | 0.5   | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.497 | 2.549 | -2.1  | 108   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.576 | 2.780 | -7.9  | 112   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.839 | 3.036 | -6.9  | 111   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.784 | 4.062 | -7.3  | 112   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.141 | 3.459 | -10.1 | 113   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.660 | 1.734 | -4.5  | 112   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.647 | 1.689 | -2.6  | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.885 | 3.138 | -8.8  | 112   | 0.00     |
| 90 T  | Hexachloroethane            | 0.643 | 0.673 | -4.7  | 111   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.456 | 1.499 | -3.0  | 110   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.088 | 6.4   | 97    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.861 | 0.881 | -2.3  | 108   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.506 | 0.515 | -1.8  | 109   | 0.00     |
| 95 T  | Naphthalene                 | 1.468 | 1.504 | -2.5  | 105   | 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 | 0.742 | 0.735 | 0.9  | 106   | 0.00     |

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