

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY010323\  
 Data File : VY012036.D  
 Acq On : 03 Jan 2023 10:31  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 04 01:08:49 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 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   | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.377 | 0.440 | -16.7 | 75    | 0.00     |
| 3 P   | Chloromethane               | 0.445 | 0.402 | 9.7   | 64    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.491 | 0.475 | 3.3#  | 68    | 0.00     |
| 5 T   | Bromomethane                | 0.349 | 0.350 | -0.3  | 75    | 0.00     |
| 6 T   | Chloroethane                | 0.321 | 0.318 | 0.9   | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.859 | 0.945 | -10.0 | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 0.265 | 0.262 | 1.1   | 72    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.473 | 0.492 | -4.0  | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 0.654 | 0.652 | 0.3   | 68    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.065 | 0.041 | 36.9# | 62    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.473 | 0.473 | 0.0   | 72    | 0.00     |
| 13 T  | Acrolein                    | 0.047 | 0.033 | 29.8# | 57    | 0.00     |
| 14 T  | Allyl chloride              | 0.697 | 0.626 | 10.2  | 65    | 0.00     |
| 15 T  | Acrylonitrile               | 0.123 | 0.119 | 3.3   | 69    | 0.00     |
| 16 T  | Acetone                     | 0.137 | 0.132 | 3.6   | 62    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.509 | 1.253 | 17.0  | 60    | 0.00     |
| 18 T  | Methyl Acetate              | 0.348 | 0.308 | 11.5  | 66    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.214 | 1.300 | -7.1  | 76    | 0.00     |
| 20 T  | Methylene Chloride          | 0.701 | 0.520 | 25.8# | 65    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.538 | 0.521 | 3.2   | 70    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.372 | 1.293 | 5.8   | 67    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.789 | 0.765 | 3.0   | 67    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.892 | 0.863 | 3.3   | 71    | 0.00     |
| 25 T  | 2-Butanone                  | 0.168 | 0.150 | 10.7  | 60    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.873 | 0.915 | -4.8  | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.591 | -1.7  | 74    | 0.00     |
| 28 T  | Bromochloromethane          | 0.245 | 0.206 | 15.9  | 66    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.095 | 0.085 | 10.5  | 62    | 0.00     |
| 30 C  | Chloroform                  | 0.961 | 0.997 | -3.7# | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 0.848 | 0.723 | 14.7  | 64    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.914 | 0.985 | -7.8  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.504 | 0.496 | 1.6   | 74    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 74    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.301 | 0.304 | -1.0  | 72    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.483 | 0.487 | -0.8  | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.217 | 0.205 | 5.5   | 67    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.558 | 0.629 | -12.7 | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.581 | 0.579 | 0.3   | 68    | 0.00     |
| 40 TM | Benzene                     | 1.382 | 1.377 | 0.4   | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.105 | 0.111 | -5.7  | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.398 | 0.430 | -8.0  | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.396 | 0.379 | 4.3   | 66    | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.410 | -5.4  | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.319 | 0.308 | 3.4#  | 69    | 0.00     |
| 46 T  | Dibromomethane              | 0.184 | 0.190 | -3.3  | 73    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.467 | 0.495 | -6.0  | 75    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.183 | 0.174 | 4.9   | 65    | 0.00     |

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 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   | 74    | 0.00     |
| 50 S  | Toluene-d8                  | 1.221 | 1.207 | 1.1   | 70    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.211 | 0.202 | 4.3   | 65    | 0.00     |
| 52 CM | Toluene                     | 0.880 | 0.924 | -5.0# | 73    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.471 | 0.505 | -7.2  | 75    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.530 | 0.554 | -4.5  | 73    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.261 | 0.270 | -3.4  | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.330 | 0.352 | -6.7  | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.436 | 0.451 | -3.4  | 72    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.127 | 0.121 | 4.7   | 70    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.155 | 0.151 | 2.6   | 62    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.329 | 0.364 | -10.6 | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.244 | 0.252 | -3.3  | 72    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.411 | 0.421 | -2.4  | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.438 | 0.480 | -9.6  | 77    | 0.00     |
| 65 PM | Chlorobenzene               | 1.038 | 1.097 | -5.7  | 75    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.386 | 0.423 | -9.6  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.877 | 2.010 | -7.1# | 74    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.730 | 0.795 | -8.9  | 75    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.748 | -10.2 | 76    | 0.00     |
| 70 T  | Styrene                     | 1.140 | 1.277 | -12.0 | 77    | 0.00     |
| 71 P  | Bromoform                   | 0.229 | 0.259 | -13.1 | 80    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.710 | 4.083 | -10.1 | 78    | 0.00     |
| 74 T  | N-amyl acetate              | 0.761 | 0.748 | 1.7   | 68    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.619 | 0.600 | 3.1   | 71    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.622 | 0.513 | 17.5  | 60    | 0.00     |
| 77 T  | Bromobenzene                | 0.858 | 0.922 | -7.5  | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 4.460 | 4.752 | -6.5  | 76    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.507 | 2.657 | -6.0  | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.177 | 3.496 | -10.0 | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.227 | 0.238 | -4.8  | 75    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.594 | 2.758 | -6.3  | 76    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.692 | 3.016 | -12.0 | 79    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.125 | 3.459 | -10.7 | 79    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.020 | 4.453 | -10.8 | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.392 | 3.856 | -13.7 | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.726 | 1.850 | -7.2  | 78    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.716 | 1.850 | -7.8  | 80    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.071 | 3.406 | -10.9 | 78    | 0.00     |
| 90 T  | Hexachloroethane            | 0.647 | 0.694 | -7.3  | 79    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.505 | 1.644 | -9.2  | 80    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.106 | 0.120 | -13.2 | 80    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.885 | 1.058 | -19.5 | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.572 | 0.680 | -18.9 | 86    | 0.00     |
| 95 T  | Naphthalene                 | 1.644 | 2.025 | -23.2 | 82    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.749 | 0.895 | -19.5 | 82    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5