

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030524\  
 Data File : VY017563.D  
 Acq On : 05 Mar 2024 10:45  
 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: Mar 05 22:00:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 2024  
 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.369 | 0.330 | 10.6  | 88    | 0.00     |
| 3 P   | Chloromethane               | 0.674 | 0.607 | 9.9   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.865 | 0.813 | 6.0#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.705 | 0.651 | 7.7   | 92    | 0.00     |
| 6 T   | Chloroethane                | 0.545 | 0.518 | 5.0   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.881 | 0.829 | 5.9   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.258 | 0.227 | 12.0  | 80    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.507 | 0.494 | 2.6   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.569 | 0.592 | -4.0  | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.025 | 37.5# | 65    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.472 | 0.466 | 1.3#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.053 | 0.042 | 20.8  | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.571 | 0.551 | 3.5   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.106 | 0.088 | 17.0  | 73    | 0.00     |
| 16 T  | Acetone                     | 0.092 | 0.082 | 10.9  | 82    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.418 | 1.448 | -2.1  | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.223 | 0.194 | 13.0  | 75    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.101 | 0.979 | 11.1  | 78    | 0.00     |
| 20 T  | Methylene Chloride          | 0.658 | 0.534 | 18.8  | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.553 | 0.551 | 0.4   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.317 | 1.246 | 5.4   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.785 | 0.707 | 9.9   | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.900 | 0.857 | 4.8   | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 0.131 | 0.109 | 16.8  | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.756 | 0.751 | 0.7   | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.621 | 0.600 | 3.4   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.354 | 0.377 | -6.5  | 118   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.079 | 0.066 | 16.5  | 71    | 0.00     |
| 30 C  | Chloroform                  | 0.958 | 0.905 | 5.5#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 0.771 | 0.748 | 3.0   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.832 | 0.806 | 3.1   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.474 | 0.390 | 17.7  | 80    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.348 | 0.321 | 7.8   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.470 | 0.487 | -3.6  | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.186 | 0.156 | 16.1  | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.471 | 0.496 | -5.3  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.565 | 0.603 | -6.7  | 91    | 0.00     |
| 40 TM | Benzene                     | 1.396 | 1.417 | -1.5  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.093 | 0.086 | 7.5   | 75    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.341 | 0.320 | 6.2   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.326 | 0.287 | 12.0  | 74    | 0.00     |
| 44 TM | Trichloroethene             | 0.402 | 0.407 | -1.2  | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.332 | 0.322 | 3.0#  | 85    | 0.00     |
| 46 T  | Dibromomethane              | 0.190 | 0.175 | 7.9   | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.462 | 0.456 | 1.3   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.151 | 0.134 | 11.3  | 73    | 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   | 74    | 0.00     |
| 50 S  | Toluene-d8                  | 1.218 | 1.200 | 1.5   | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.182 | 0.156 | 14.3  | 72    | 0.00     |
| 52 CM | Toluene                     | 0.880 | 0.910 | -3.4# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.428 | 0.416 | 2.8   | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.521 | 0.514 | 1.3   | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.270 | 0.250 | 7.4   | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.303 | 0.280 | 7.6   | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.439 | 0.404 | 8.0   | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.156 | 0.146 | 6.4   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.125 | 0.113 | 9.6   | 73    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.308 | 3.4   | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.249 | 0.235 | 5.6   | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.383 | 0.367 | 4.2   | 83    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.480 | 0.448 | 6.7   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 1.061 | 1.072 | -1.0  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.398 | 0.399 | -0.3  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.861 | 1.960 | -5.3# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.731 | 0.768 | -5.1  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.711 | -4.7  | 86    | 0.00     |
| 70 T  | Styrene                     | 1.126 | 1.168 | -3.7  | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.220 | 0.208 | 5.5   | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.715 | 3.844 | -3.5  | 88    | 0.00     |
| 74 T  | N-amyl acetate              | 0.655 | 0.583 | 11.0  | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.638 | 0.602 | 5.6   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.475 | 0.460 | 3.2   | 86    | 0.00     |
| 77 T  | Bromobenzene                | 0.900 | 0.882 | 2.0   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 4.457 | 4.675 | -4.9  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.495 | 2.494 | 0.0   | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.976 | 3.101 | -4.2  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.207 | 0.194 | 6.3   | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.552 | 2.556 | -0.2  | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.613 | 2.710 | -3.7  | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.938 | 3.087 | -5.1  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.996 | 4.179 | -4.6  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.271 | 3.526 | -7.8  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.806 | 1.801 | 0.3   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.755 | 1.754 | 0.1   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.984 | 3.196 | -7.1  | 88    | 0.00     |
| 90 T  | Hexachloroethane            | 0.656 | 0.670 | -2.1  | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.527 | 1.506 | 1.4   | 84    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.090 | 0.075 | 16.7  | 73    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.807 | 0.810 | -0.4  | 82    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.498 | 0.516 | -3.6  | 91    | 0.00     |
| 95 T  | Naphthalene                 | 1.379 | 1.315 | 4.6   | 74    | 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 | 0.692 | 0.679 | 1.9  | 80    | 0.00     |

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