

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY090121\  
 Data File : VY005918.D  
 Acq On : 01 Sep 2021 10:09  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 02 07:43:58 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y083121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 01 05:32:43 2021  
 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.446 | 0.381 | 14.6  | 82    | 0.00     |
| 3 P   | Chloromethane               | 0.473 | 0.415 | 12.3  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.615 | 0.543 | 11.7# | 91    | 0.00     |
| 5 T   | Bromomethane                | 0.415 | 0.396 | 4.6   | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.368 | 0.337 | 8.4   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.785 | 0.738 | 6.0   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.267 | 0.253 | 5.2   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.423 | 0.395 | 6.6   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.531 | 0.456 | 14.1  | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.099 | 0.068 | 31.3# | 84    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.429 | 0.405 | 5.6#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.021 | 0.013 | 38.1# | 83    | 0.00     |
| 14 T  | Allyl chloride              | 0.722 | 0.694 | 3.9   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.135 | 0.126 | 6.7   | 88    | 0.00     |
| 16 T  | Acetone                     | 0.128 | 0.144 | -12.5 | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.371 | 1.284 | 6.3   | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.357 | 0.322 | 9.8   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.289 | 1.260 | 2.2   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 0.569 | 0.499 | 12.3  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.479 | 0.462 | 3.5   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.467 | 1.422 | 3.1   | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.890 | 0.873 | 1.9   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.837 | 0.808 | 3.5   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.182 | 0.184 | -1.1  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.783 | 0.765 | 2.3   | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.538 | 0.521 | 3.2   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.345 | 0.352 | -2.0  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.118 | 0.109 | 7.6   | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.858 | 0.837 | 2.4#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.850 | 0.762 | 10.4  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.799 | 0.772 | 3.4   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.504 | 0.499 | 1.0   | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.281 | 0.282 | -0.4  | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.471 | 0.454 | 3.6   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.282 | 0.261 | 7.4   | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.510 | 0.500 | 2.0   | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.596 | 0.578 | 3.0   | 91    | 0.00     |
| 40 TM | Benzene                     | 1.330 | 1.318 | 0.9   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.157 | 0.140 | 10.8  | 82    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.432 | 0.422 | 2.3   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.512 | 0.496 | 3.1   | 90    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.360 | 3.5   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.326 | 0.321 | 1.5#  | 93    | 0.00     |
| 46 T  | Dibromomethane              | 0.188 | 0.179 | 4.8   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.456 | 0.456 | 0.0   | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.235 | 0.230 | 2.1   | 90    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
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|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.003 | 0.002 | 33.3# | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 1.178 | 1.200 | -1.9  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.276 | 0.264 | 4.3   | 88    | 0.00     |
| 52 CM | Toluene                     | 0.857 | 0.839 | 2.1#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.506 | 0.502 | 0.8   | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.555 | 0.549 | 1.1   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.269 | 0.258 | 4.1   | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.389 | 0.386 | 0.8   | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.466 | 0.457 | 1.9   | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.201 | 0.212 | -5.5  | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.193 | 0.195 | -1.0  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.330 | 0.328 | 0.6   | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.256 | 0.245 | 4.3   | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.396 | 0.403 | -1.8  | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.409 | 0.387 | 5.4   | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 1.003 | 0.989 | 1.4   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.376 | 0.372 | 1.1   | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.793 | 1.784 | 0.5#  | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.707 | 0.701 | 0.8   | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.664 | 0.667 | -0.5  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.133 | 1.143 | -0.9  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.248 | 0.243 | 2.0   | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.333 | 3.334 | -0.0  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 0.956 | 0.946 | 1.0   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.634 | 0.617 | 2.7   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.468 | 0.429 | 8.3   | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.839 | 0.827 | 1.4   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 3.983 | 3.987 | -0.1  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.217 | 2.218 | -0.0  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.792 | 2.829 | -1.3  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.246 | 0.234 | 4.9   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.326 | 2.303 | 1.0   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.441 | 2.453 | -0.5  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.770 | 2.790 | -0.7  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.597 | 3.622 | -0.7  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.117 | 3.119 | -0.1  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.633 | 1.631 | 0.1   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.631 | 1.601 | 1.8   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.789 | 2.833 | -1.6  | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.566 | 0.561 | 0.9   | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.448 | 1.412 | 2.5   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.119 | 0.116 | 2.5   | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.978 | 0.998 | -2.0  | 94    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.630 | 0.642 | -1.9  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 1.878 | 1.879 | -0.1  | 90    | 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 | 0.853 | 0.865 | -1.4 | 92    | 0.00     |

(#) = Out of Range

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