

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY093021\  
 Data File : VY006230.D  
 Acq On : 30 Sep 2021 11:02  
 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 30 16:54:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y092821S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 28 17:44:36 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.507 | 0.449 | 11.4  | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.591 | 0.542 | 8.3   | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.655 | 0.658 | -0.5# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.425 | 0.442 | -4.0  | 99    | 0.00     |
| 6 T   | Chloroethane                | 0.385 | 0.398 | -3.4  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.862 | 0.890 | -3.2  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.285 | 0.274 | 3.9   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.460 | 0.462 | -0.4  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.502 | 0.465 | 7.4   | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.047 | 0.040 | 14.9  | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.468 | 0.466 | 0.4#  | 89    | 0.00     |
| 13 T  | Acrolein                    | 0.030 | 0.033 | -10.0 | 84    | 0.00     |
| 14 T  | Allyl chloride              | 0.901 | 0.850 | 5.7   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 0.150 | 0.142 | 5.3   | 82    | 0.00     |
| 16 T  | Acetone                     | 0.149 | 0.169 | -13.4 | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.566 | 1.532 | 2.2   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 0.504 | 0.457 | 9.3   | 78    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.368 | 1.363 | 0.4   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 0.582 | 0.502 | 13.7  | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.519 | 0.521 | -0.4  | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.782 | 1.703 | 4.4   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.068 | 1.008 | 5.6   | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.956 | 0.932 | 2.5   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 0.208 | 0.201 | 3.4   | 77    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.875 | 0.900 | -2.9  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.581 | 0.583 | -0.3  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.398 | 0.371 | 6.8   | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.132 | 0.118 | 10.6  | 76    | 0.00     |
| 30 C  | Chloroform                  | 0.954 | 0.958 | -0.4# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 1.014 | 0.923 | 9.0   | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.881 | 0.907 | -3.0  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.535 | 0.495 | 7.5   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.267 | 0.255 | 4.5   | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.497 | 0.511 | -2.8  | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.290 | 0.279 | 3.8   | 80    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.525 | 0.558 | -6.3  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.625 | 0.642 | -2.7  | 88    | 0.00     |
| 40 TM | Benzene                     | 1.411 | 1.436 | -1.8  | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.188 | 0.174 | 7.4   | 79    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.455 | 0.472 | -3.7  | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.556 | 0.527 | 5.2   | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.365 | 0.390 | -6.8  | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.347 | 0.340 | 2.0#  | 84    | 0.00     |
| 46 T  | Dibromomethane              | 0.185 | 0.186 | -0.5  | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.476 | 0.493 | -3.6  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.267 | 0.247 | 7.5   | 75    | 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   | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 1.118 | 1.076 | 3.8   | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.289 | 0.281 | 2.8   | 79    | 0.00     |
| 52 CM | Toluene                     | 0.875 | 0.926 | -5.8# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.519 | 0.527 | -1.5  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.571 | 0.579 | -1.4  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.260 | 0.264 | -1.5  | 84    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.396 | 0.402 | -1.5  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.471 | 0.466 | 1.1   | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.194 | 0.187 | 3.6   | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.206 | 0.212 | -2.9  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.316 | 0.330 | -4.4  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.246 | 0.250 | -1.6  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.380 | 0.370 | 2.6   | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.403 | 0.469 | -16.4 | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 0.991 | 1.033 | -4.2  | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.365 | 0.388 | -6.3  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.867 | 1.966 | -5.3# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.765 | -7.9  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.669 | 0.714 | -6.7  | 90    | 0.00     |
| 70 T  | Styrene                     | 1.137 | 1.227 | -7.9  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.227 | 0.239 | -5.3  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.582 | 3.759 | -4.9  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 1.112 | 1.060 | 4.7   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.647 | 0.595 | 8.0   | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.486 | 0.556 | -14.4 | 102   | 0.00     |
| 77 T  | Bromobenzene                | 0.840 | 0.885 | -5.4  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.409 | 4.623 | -4.9  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.440 | 2.518 | -3.2  | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.995 | 3.172 | -5.9  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.247 | 0.239 | 3.2   | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.523 | 2.611 | -3.5  | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.560 | 2.792 | -9.1  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.957 | 3.134 | -6.0  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.869 | 4.114 | -6.3  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.265 | 3.538 | -8.4  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.664 | 1.769 | -6.3  | 93    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.640 | 1.711 | -4.3  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.102 | 3.284 | -5.9  | 92    | 0.00     |
| 90 T  | Hexachloroethane            | 0.593 | 0.613 | -3.4  | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.455 | 1.538 | -5.7  | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.123 | 0.119 | 3.3   | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.961 | 1.016 | -5.7  | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.627 | 0.677 | -8.0  | 94    | 0.00     |
| 95 T  | Naphthalene                 | 1.910 | 1.910 | 0.0   | 84    | 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 | 0.852 | 0.891 | -4.6 | 91    | 0.00     |

(#) = Out of Range

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