

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092222\  
 Data File : VY010612.D  
 Acq On : 22 Sep 2022 10:35  
 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: Sep 22 16:23:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 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    | 81    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.279 | 0.212 | 24.0   | 80    | 0.00     |
| 3 P   | Chloromethane               | 0.391 | 0.354 | 9.5    | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.490 | 0.422 | 13.9#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.350 | 0.283 | 19.1   | 79    | 0.00     |
| 6 T   | Chloroethane                | 0.352 | 0.306 | 13.1   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.657 | 0.581 | 11.6   | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 0.225 | 0.207 | 8.0    | 81    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.395 | 0.358 | 9.4    | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.457 | 0.383 | 16.2   | 73    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.049 | 0.042 | 14.3   | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.353 | 0.309 | 12.5#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 0.022 | 0.020 | 9.1    | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.532 | 0.506 | 4.9    | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 0.117 | 0.119 | -1.7   | 89    | 0.00     |
| 16 T  | Acetone                     | 0.098 | 0.106 | -8.2   | 88    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.788 | 0.618 | 21.6   | 78    | 0.00     |
| 18 T  | Methyl Acetate              | 0.316 | 0.277 | 12.3   | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.101 | 1.068 | 3.0    | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 0.785 | 0.503 | 35.9#  | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.397 | 0.353 | 11.1   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.257 | 1.307 | -4.0   | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.742 | 0.800 | -7.8   | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.754 | 0.737 | 2.3    | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 0.153 | 0.160 | -4.6   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.725 | 0.706 | 2.6    | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.495 | 0.465 | 6.1    | 82    | 0.00     |
| 28 T  | Bromochloromethane          | 0.301 | 0.407 | -35.2# | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.094 | 0.096 | -2.1   | 90    | 0.00     |
| 30 C  | Chloroform                  | 0.816 | 0.802 | 1.7#   | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 0.617 | 0.513 | 16.9   | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.726 | 0.684 | 5.8    | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.478 | 0.509 | -6.5   | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.319 | 0.300 | 6.0    | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.356 | 0.321 | 9.8    | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.205 | 0.211 | -2.9   | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.409 | 0.377 | 7.8    | 80    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.416 | 0.355 | 14.7   | 79    | 0.00     |
| 40 TM | Benzene                     | 1.060 | 1.005 | 5.2    | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.105 | 0.096 | 8.6    | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.326 | 0.320 | 1.8    | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.376 | 0.380 | -1.1   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.303 | 0.276 | 8.9    | 81    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.274 | 0.274 | 0.0    | 87    | 0.00     |
| 46 T  | Dibromomethane              | 0.161 | 0.155 | 3.7    | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.398 | 0.402 | -1.0   | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.166 | 0.173 | -4.2   | 88    | 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   | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.087 | 1.188 | -9.3  | 82    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.213 | 0.224 | -5.2  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.694 | 0.657 | 5.3#  | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.402 | 0.395 | 1.7   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.448 | 0.441 | 1.6   | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.237 | 0.236 | 0.4   | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.307 | 0.306 | 0.3   | 84    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.392 | 0.392 | 0.0   | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.155 | 0.172 | -11.0 | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.144 | 0.155 | -7.6  | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.290 | 0.287 | 1.0   | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.222 | 0.212 | 4.5   | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.474 | 0.400 | 15.6  | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.334 | 0.294 | 12.0  | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 0.865 | 0.810 | 6.4   | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.337 | 0.324 | 3.9   | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.518 | 1.428 | 5.9#  | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.588 | 0.549 | 6.6   | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.573 | 0.539 | 5.9   | 83    | 0.00     |
| 70 T  | Styrene                     | 0.974 | 0.942 | 3.3   | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.209 | 0.203 | 2.9   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.090 | 2.851 | 7.7   | 82    | 0.00     |
| 74 T  | N-amyl acetate              | 0.749 | 0.761 | -1.6  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.630 | 0.603 | 4.3   | 86    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.477 | 0.459 | 3.8   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.735 | 0.677 | 7.9   | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 3.681 | 3.444 | 6.4   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.097 | 1.969 | 6.1   | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.611 | 2.412 | 7.6   | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.215 | 0.206 | 4.2   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.166 | 2.036 | 6.0   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.335 | 2.166 | 7.2   | 82    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.594 | 2.434 | 6.2   | 84    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.420 | 3.224 | 5.7   | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.858 | 2.726 | 4.6   | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.492 | 1.391 | 6.8   | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.477 | 1.380 | 6.6   | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.624 | 2.540 | 3.2   | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 0.549 | 0.517 | 5.8   | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.329 | 1.258 | 5.3   | 84    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.105 | 0.104 | 1.0   | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.811 | 0.773 | 4.7   | 81    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.493 | 0.460 | 6.7   | 80    | 0.00     |
| 95 T  | Naphthalene                 | 1.634 | 1.576 | 3.5   | 80    | 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 | 0.706 | 0.676 | 4.2  | 80    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 5