

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY081422\  
 Data File : VY010002.D  
 Acq On : 14 Aug 2022 16:28  
 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: Aug 15 00:39:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081222S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 13 02:54:57 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   | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.449 | 0.426 | 5.1   | 102   | 0.00     |
| 3 P   | Chloromethane               | 0.330 | 0.291 | 11.8  | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.347 | 0.321 | 7.5#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.277 | 0.249 | 10.1  | 102   | 0.00     |
| 6 T   | Chloroethane                | 0.230 | 0.203 | 11.7  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.861 | 0.794 | 7.8   | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.324 | 0.292 | 9.9   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.553 | 0.511 | 7.6   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.662 | 0.642 | 3.0   | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.056 | 0.040 | 28.6# | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.537 | 0.488 | 9.1#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 0.065 | 0.047 | 27.7# | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.749 | 0.623 | 16.8  | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.155 | 0.134 | 13.5  | 86    | 0.00     |
| 16 T  | Acetone                     | 0.122 | 0.127 | -4.1  | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.747 | 1.611 | 7.8   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.384 | 0.281 | 26.8# | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.312 | 1.232 | 6.1   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.809 | 0.632 | 21.9  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.597 | 0.576 | 3.5   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.513 | 1.305 | 13.7  | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.935 | 0.823 | 12.0  | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.966 | 0.890 | 7.9   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.189 | 0.160 | 15.3  | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.856 | 0.792 | 7.5   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.641 | 0.622 | 3.0   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.386 | 0.344 | 10.9  | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.119 | 0.095 | 20.2  | 79    | 0.00     |
| 30 C  | Chloroform                  | 0.999 | 0.970 | 2.9#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.908 | 0.784 | 13.7  | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.849 | 0.841 | 0.9   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.507 | 0.486 | 4.1   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.306 | 0.322 | -5.2  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.450 | 1.3   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.246 | 0.199 | 19.1  | 79    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.455 | 0.477 | -4.8  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.549 | 0.554 | -0.9  | 94    | 0.00     |
| 40 TM | Benzene                     | 1.379 | 1.358 | 1.5   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.131 | 0.128 | 2.3   | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.357 | 0.354 | 0.8   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.427 | 0.363 | 15.0  | 82    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.381 | -2.1  | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.331 | 0.313 | 5.4#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.199 | 0.199 | 0.0   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.443 | 0.447 | -0.9  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.187 | 0.165 | 11.8  | 83    | 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   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 1.173 | 1.234 | -5.2  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.231 | 0.199 | 13.9  | 80    | 0.00     |
| 52 CM | Toluene                     | 0.830 | 0.856 | -3.1# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.455 | 0.449 | 1.3   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.526 | 0.533 | -1.3  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.285 | 0.280 | 1.8   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.352 | 0.350 | 0.6   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.462 | 0.450 | 2.6   | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.154 | 0.130 | 15.6  | 85    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.160 | 0.148 | 7.5   | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.325 | 0.335 | -3.1  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.273 | 0.276 | -1.1  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.430 | 0.441 | -2.6  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.365 | 0.380 | -4.1  | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 1.015 | 1.031 | -1.6  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.362 | 0.372 | -2.8  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.706 | 1.773 | -3.9# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.661 | 0.693 | -4.8  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.626 | 0.652 | -4.2  | 97    | 0.00     |
| 70 T  | Styrene                     | 1.067 | 1.125 | -5.4  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.228 | 0.229 | -0.4  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.356 | 3.485 | -3.8  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 0.858 | 0.749 | 12.7  | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.775 | 0.706 | 8.9   | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.578 | 0.524 | 9.3   | 96    | 0.00     |
| 77 T  | Bromobenzene                | 0.812 | 0.833 | -2.6  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 4.212 | 4.315 | -2.4  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.392 | 2.480 | -3.7  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.742 | 2.963 | -8.1  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.266 | 0.249 | 6.4   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.492 | 2.602 | -4.4  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.410 | 2.522 | -4.6  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.753 | 2.995 | -8.8  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.692 | 3.824 | -3.6  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.915 | 3.137 | -7.6  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.600 | 1.625 | -1.6  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.664 | 1.675 | -0.7  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.814 | 2.999 | -6.6  | 96    | 0.00     |
| 90 T  | Hexachloroethane            | 0.625 | 0.634 | -1.4  | 96    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.439 | 1.483 | -3.1  | 95    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.124 | 0.106 | 14.5  | 82    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.819 | 0.864 | -5.5  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.462 | 0.501 | -8.4  | 105   | 0.00     |
| 95 T  | Naphthalene                 | 1.741 | 1.852 | -6.4  | 91    | 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 | 0.732 | 0.774 | -5.7 | 95    | 0.00     |

(#) = Out of Range

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