

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100422\  
 Data File : VY010781.D  
 Acq On : 04 Oct 2022 09:14  
 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: Oct 05 07:22:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100322S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 04 07:26:22 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.346 | 0.342 | 1.2   | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.576 | 0.563 | 2.3   | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.694 | 0.681 | 1.9#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.492 | 0.487 | 1.0   | 100   | 0.00     |
| 6 T   | Chloroethane                | 0.462 | 0.461 | 0.2   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.845 | 0.804 | 4.9   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.272 | 0.269 | 1.1   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.484 | 0.470 | 2.9   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.648 | 0.628 | 3.1   | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.071 | 0.045 | 36.6# | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.473 | 0.462 | 2.3#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.039 | 0.031 | 20.5  | 88    | 0.00     |
| 14 T  | Allyl chloride              | 0.708 | 0.685 | 3.2   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 0.132 | 0.129 | 2.3   | 95    | 0.00     |
| 16 T  | Acetone                     | 0.129 | 0.136 | -5.4  | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.528 | 1.490 | 2.5   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 0.329 | 0.302 | 8.2   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.237 | 1.244 | -0.6  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.678 | 0.554 | 18.3  | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.552 | 0.547 | 0.9   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.552 | 1.539 | 0.8   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.940 | 0.946 | -0.6  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.945 | 0.933 | 1.3   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.185 | 0.182 | 1.6   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.897 | 0.868 | 3.2   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.613 | 0.617 | -0.7  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.300 | 0.370 | -23.3 | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.109 | 0.106 | 2.8   | 94    | 0.00     |
| 30 C  | Chloroform                  | 0.975 | 0.976 | -0.1# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.907 | 0.827 | 8.8   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.879 | 0.868 | 1.3   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.507 | 0.508 | -0.2  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.332 | 0.306 | 7.8   | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.480 | -0.2  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.235 | 0.233 | 0.9   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.499 | 0.510 | -2.2  | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.589 | 0.577 | 2.0   | 89    | 0.00     |
| 40 TM | Benzene                     | 1.380 | 1.397 | -1.2  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.127 | 0.145 | -14.2 | 110   | 0.02     |
| 42 TM | 1,2-Dichloroethane          | 0.390 | 0.399 | -2.3  | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.426 | 0.422 | 0.9   | 93    | 0.00     |
| 44 TM | Trichloroethene             | 0.374 | 0.376 | -0.5  | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.333 | 0.338 | -1.5# | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.190 | 0.196 | -3.2  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.459 | 0.473 | -3.1  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.200 | 0.205 | -2.5  | 95    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 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   | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 1.135 | 1.234 | -8.7  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.233 | 0.239 | -2.6  | 95    | 0.00     |
| 52 CM | Toluene                     | 0.878 | 0.904 | -3.0# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.476 | 0.485 | -1.9  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.545 | 0.557 | -2.2  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.267 | 0.268 | -0.4  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.343 | 0.363 | -5.8  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.454 | 0.467 | -2.9  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.152 | 0.178 | -17.1 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.161 | 0.174 | -8.1  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.320 | 0.333 | -4.1  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.255 | 0.261 | -2.4  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.481 | 0.412 | 14.3  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.396 | 0.398 | -0.5  | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.035 | 1.038 | -0.3  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.378 | 0.386 | -2.1  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.863 | 1.910 | -2.5# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.729 | 0.747 | -2.5  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.682 | 0.704 | -3.2  | 96    | 0.00     |
| 70 T  | Styrene                     | 1.149 | 1.204 | -4.8  | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.225 | 0.231 | -2.7  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.676 | 3.685 | -0.2  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 0.845 | 0.853 | -0.9  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.687 | 0.668 | 2.8   | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.506 | 0.461 | 8.9   | 88    | 0.00     |
| 77 T  | Bromobenzene                | 0.843 | 0.843 | 0.0   | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.477 | 4.498 | -0.5  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.505 | 2.480 | 1.0   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.109 | 3.151 | -1.4  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.242 | 0.239 | 1.2   | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.619 | 2.596 | 0.9   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.650 | 2.724 | -2.8  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.057 | 3.115 | -1.9  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.990 | 3.990 | 0.0   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.347 | 3.429 | -2.4  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.711 | 1.709 | 0.1   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.695 | 1.683 | 0.7   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.080 | 3.124 | -1.4  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.640 | 0.619 | 3.3   | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.492 | 1.487 | 0.3   | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.110 | 0.106 | 3.6   | 95    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.875 | 0.859 | 1.8   | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.540 | 0.515 | 4.6   | 95    | 0.00     |
| 95 T  | Naphthalene                 | 1.668 | 1.680 | -0.7  | 95    | 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 | 0.746 | 0.734 | 1.6  | 95    | 0.00     |

(#) = Out of Range

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