

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082123\  
 Data File : VY015231.D  
 Acq On : 21 Aug 2023 20:30  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 22 01:59:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 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   | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.253 | 0.201 | 20.6  | 71    | 0.00     |
| 3 P   | Chloromethane               | 0.347 | 0.294 | 15.3  | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.398 | 0.380 | 4.5#  | 76    | 0.00     |
| 5 T   | Bromomethane                | 0.291 | 0.315 | -8.2  | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.289 | 0.297 | -2.8  | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.670 | 0.676 | -0.9  | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 0.263 | 0.281 | -6.8  | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.417 | 0.420 | -0.7  | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.409 | 0.369 | 9.8   | 65    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.116 | 0.118 | -1.7  | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.348 | 0.339 | 2.6#  | 76    | 0.00     |
| 13 T  | Acrolein                    | 0.056 | 0.027 | 51.8# | 58    | 0.00     |
| 14 T  | Allyl chloride              | 0.617 | 0.621 | -0.6  | 77    | 0.00     |
| 15 T  | Acrylonitrile               | 0.178 | 0.206 | -15.7 | 88    | 0.00     |
| 16 T  | Acetone                     | 0.196 | 0.172 | 12.2  | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 0.612 | 0.560 | 8.5   | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 0.719 | 0.816 | -13.5 | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.479 | 1.627 | -10.0 | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 0.570 | 0.611 | -7.2  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.392 | 0.399 | -1.8  | 79    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.539 | 1.660 | -7.9  | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.918 | 0.982 | -7.0  | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.833 | 0.895 | -7.4  | 83    | 0.00     |
| 25 T  | 2-Butanone                  | 0.278 | 0.297 | -6.8  | 82    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.803 | 0.703 | 12.5  | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.536 | 0.576 | -7.5  | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 0.383 | 0.395 | -3.1  | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.166 | 0.189 | -13.9 | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.934 | 1.014 | -8.6# | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 0.597 | 0.553 | 7.4   | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.795 | 0.844 | -6.2  | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.600 | 0.677 | -12.8 | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.322 | 0.352 | -9.3  | 83    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.356 | 0.366 | -2.8  | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.332 | 0.359 | -8.1  | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.421 | 0.430 | -2.1  | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.399 | 0.389 | 2.5   | 77    | 0.00     |
| 40 TM | Benzene                     | 1.076 | 1.132 | -5.2  | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.171 | 0.200 | -17.0 | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.391 | 0.426 | -9.0  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.604 | 0.660 | -9.3  | 85    | 0.00     |
| 44 TM | Trichloroethene             | 0.310 | 0.327 | -5.5  | 83    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.303 | 0.324 | -6.9# | 84    | 0.00     |
| 46 T  | Dibromomethane              | 0.191 | 0.212 | -11.0 | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.499 | -9.2  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.258 | 0.297 | -15.1 | 87    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082123\  
 Data File : VY015231.D  
 Acq On : 21 Aug 2023 20:30  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 22 01:59:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.004 | 0.004 | 0.0   | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 1.197 | 1.251 | -4.5  | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.350 | 0.399 | -14.0 | 88    | 0.00     |
| 52 CM | Toluene                     | 0.709 | 0.734 | -3.5# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.480 | 0.480 | 0.0   | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.505 | 0.522 | -3.4  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.291 | 0.316 | -8.6  | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.426 | 0.451 | -5.9  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.475 | 0.515 | -8.4  | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.198 | 0.216 | -9.1  | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.259 | 0.286 | -10.4 | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.347 | 0.378 | -8.9  | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.276 | 0.292 | -5.8  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.437 | 0.458 | -4.8  | 81    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 77    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.348 | 0.396 | -13.8 | 89    | 0.00     |
| 65 PM | Chlorobenzene               | 0.911 | 0.954 | -4.7  | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.404 | -9.2  | 85    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.596 | 1.633 | -2.3# | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.606 | 0.622 | -2.6  | 80    | 0.00     |
| 69 T  | o-Xylene                    | 0.604 | 0.625 | -3.5  | 81    | 0.00     |
| 70 T  | Styrene                     | 1.045 | 1.107 | -5.9  | 82    | 0.00     |
| 71 P  | Bromoform                   | 0.268 | 0.293 | -9.3  | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 78    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.215 | 3.170 | 1.4   | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 1.161 | 1.207 | -4.0  | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.837 | 0.886 | -5.9  | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.607 | 0.669 | -10.2 | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.784 | 0.802 | -2.3  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 3.818 | 3.749 | 1.8   | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.203 | 2.220 | -0.8  | 82    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.680 | 2.693 | -0.5  | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.277 | 0.257 | 7.2   | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.275 | 2.287 | -0.5  | 81    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.451 | 2.428 | 0.9   | 80    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.678 | 2.682 | -0.1  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.592 | 3.587 | 0.1   | 81    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.978 | 2.984 | -0.2  | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.554 | 1.572 | -1.2  | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.559 | 1.580 | -1.3  | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.808 | 2.768 | 1.4   | 79    | 0.00     |
| 90 T  | Hexachloroethane            | 0.591 | 0.577 | 2.4   | 80    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.452 | 1.505 | -3.7  | 83    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.162 | 0.170 | -4.9  | 83    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.932 | 0.930 | 0.2   | 80    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.507 | 0.502 | 1.0   | 82    | 0.00     |
| 95 T  | Naphthalene                 | 2.322 | 2.376 | -2.3  | 83    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082123\  
Data File : VY015231.D  
Acq On : 21 Aug 2023 20:30  
Operator : SY/MD  
Sample : VSTDCCC050  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
LabSampleId :  
VSTDCCC050

Quant Time: Aug 22 01:59:22 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 14 12:43:26 2023  
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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.842 | 0.851 | -1.1 | 81    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6