

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY033123\  
 Data File : VY013163.D  
 Acq On : 31 Mar 2023 16:29  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 01 00:08:46 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y033023S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 31 05:07:15 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   | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.490 | 0.408 | 16.7  | 73    | 0.00     |
| 3 P   | Chloromethane               | 0.511 | 0.381 | 25.4# | 68    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.512 | 0.388 | 24.2# | 68    | 0.00     |
| 5 T   | Bromomethane                | 0.362 | 0.306 | 15.5  | 77    | 0.00     |
| 6 T   | Chloroethane                | 0.321 | 0.261 | 18.7  | 73    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.912 | 0.799 | 12.4  | 76    | 0.00     |
| 8 T   | Diethyl Ether               | 0.286 | 0.277 | 3.1   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.503 | 0.429 | 14.7  | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 0.655 | 0.656 | -0.2  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.048 | 0.041 | 14.6  | 76    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.486 | 0.425 | 12.6# | 76    | 0.00     |
| 13 T  | Acrolein                    | 0.068 | 0.057 | 16.2  | 73    | 0.00     |
| 14 T  | Allyl chloride              | 0.828 | 0.748 | 9.7   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.142 | 0.130 | 8.5   | 76    | 0.00     |
| 16 T  | Acetone                     | 0.164 | 0.141 | 14.0  | 64    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.619 | 1.379 | 14.8  | 75    | 0.00     |
| 18 T  | Methyl Acetate              | 0.518 | 0.449 | 13.3  | 73    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.232 | 1.244 | -1.0  | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 0.690 | 0.568 | 17.7  | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.548 | 0.510 | 6.9   | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.618 | 1.570 | 3.0   | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.920 | 0.879 | 4.5   | 77    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.958 | 0.881 | 8.0   | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 0.205 | 0.180 | 12.2  | 70    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.862 | 0.779 | 9.6   | 79    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.590 | 0.578 | 2.0   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.411 | 0.400 | 2.7   | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.122 | 0.111 | 9.0   | 73    | 0.00     |
| 30 C  | Chloroform                  | 0.992 | 0.946 | 4.6#  | 84    | 0.00     |
| 31 T  | Cyclohexane                 | 0.877 | 0.713 | 18.7  | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.877 | 0.821 | 6.4   | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.537 | 0.512 | 4.7   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.327 | 0.323 | 1.2   | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.492 | 0.438 | 11.0  | 76    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.279 | 0.246 | 11.8  | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.543 | 0.483 | 11.0  | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.577 | 0.506 | 12.3  | 73    | 0.00     |
| 40 TM | Benzene                     | 1.420 | 1.325 | 6.7   | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.124 | 0.117 | 5.6   | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.435 | 0.418 | 3.9   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.500 | 0.457 | 8.6   | 76    | 0.00     |
| 44 TM | Trichloroethene             | 0.391 | 0.358 | 8.4   | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.327 | 8.1#  | 81    | 0.00     |
| 46 T  | Dibromomethane              | 0.204 | 0.194 | 4.9   | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.493 | 0.475 | 3.7   | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.233 | 0.213 | 8.6   | 74    | 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  | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 1.233 | 1.188 | 3.6  | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.270 | 0.244 | 9.6  | 74    | 0.00     |
| 52 CM | Toluene                     | 0.881 | 0.836 | 5.1# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.504 | 0.490 | 2.8  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.575 | 0.559 | 2.8  | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.282 | 0.270 | 4.3  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.355 | 0.352 | 0.8  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.477 | 0.456 | 4.4  | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.166 | 0.162 | 2.4  | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.195 | 0.177 | 9.2  | 71    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.355 | 0.348 | 2.0  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.274 | 0.258 | 5.8  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.401 | 0.401 | 0.0  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.384 | 0.351 | 8.6  | 81    | 0.00     |
| 65 PM | Chlorobenzene               | 1.061 | 0.999 | 5.8  | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.398 | 0.380 | 4.5  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.833 | 1.727 | 5.8# | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.709 | 0.680 | 4.1  | 82    | 0.00     |
| 69 T  | o-Xylene                    | 0.658 | 0.644 | 2.1  | 84    | 0.00     |
| 70 T  | Styrene                     | 1.100 | 1.111 | -1.0 | 86    | 0.00     |
| 71 P  | Bromoform                   | 0.247 | 0.244 | 1.2  | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0  | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.451 | 3.258 | 5.6  | 81    | 0.00     |
| 74 T  | N-amyl acetate              | 0.948 | 0.856 | 9.7  | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.723 | 0.658 | 9.0  | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.562 | 0.494 | 12.1 | 75    | 0.00     |
| 77 T  | Bromobenzene                | 0.858 | 0.838 | 2.3  | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 4.244 | 3.919 | 7.7  | 80    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.408 | 2.261 | 6.1  | 83    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.886 | 2.765 | 4.2  | 82    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.252 | 0.231 | 8.3  | 77    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.506 | 2.343 | 6.5  | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.478 | 2.378 | 4.0  | 81    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.826 | 2.735 | 3.2  | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.742 | 3.458 | 7.6  | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.081 | 2.948 | 4.3  | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.701 | 1.625 | 4.5  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.705 | 1.614 | 5.3  | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.880 | 2.657 | 7.7  | 79    | 0.00     |
| 90 T  | Hexachloroethane            | 0.642 | 0.583 | 9.2  | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.519 | 1.433 | 5.7  | 84    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.120 | 0.106 | 11.7 | 78    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.886 | 0.885 | 0.1  | 85    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.545 | 0.523 | 4.0  | 84    | 0.00     |
| 95 T  | Naphthalene                 | 1.657 | 1.658 | -0.1 | 80    | 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 | 0.781 | 0.762 | 2.4  | 82    | 0.00     |

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