

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030723\  
 Data File : VY012858.D  
 Acq On : 07 Mar 2023 20:25  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 07 23:45:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030223S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 03 01:13:13 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    | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.493 | 0.434 | 12.0   | 71    | 0.00     |
| 3 P   | Chloromethane               | 0.589 | 0.519 | 11.9   | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.540 | 0.506 | 6.3#   | 74    | 0.00     |
| 5 T   | Bromomethane                | 0.328 | 0.343 | -4.6   | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.324 | 0.334 | -3.1   | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.897 | 0.892 | 0.6    | 79    | 0.00     |
| 8 T   | Diethyl Ether               | 0.314 | 0.322 | -2.5   | 79    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.540 | 0.531 | 1.7    | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 0.703 | 0.731 | -4.0   | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.070 | 0.060 | 14.3   | 81    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.515 | 0.515 | 0.0    | 78    | 0.00     |
| 13 T  | Acrolein                    | 0.087 | 0.094 | -8.0   | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.951 | 0.813 | 14.5   | 66    | 0.00     |
| 15 T  | Acrylonitrile               | 0.166 | 0.184 | -10.8  | 85    | 0.00     |
| 16 T  | Acetone                     | 0.195 | 0.183 | 6.2    | 67    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.753 | 1.649 | 5.9    | 74    | 0.00     |
| 18 T  | Methyl Acetate              | 0.580 | 0.592 | -2.1   | 78    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.330 | 1.458 | -9.6   | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 0.714 | 0.666 | 6.7    | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.560 | 0.579 | -3.4   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.727 | 1.809 | -4.7   | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.073 | 1.162 | -8.3   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.984 | 1.007 | -2.3   | 79    | 0.00     |
| 25 T  | 2-Butanone                  | 0.241 | 0.250 | -3.7   | 76    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.874 | 0.852 | 2.5    | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.600 | 0.644 | -7.3   | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 0.360 | 0.410 | -13.9  | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.146 | 0.166 | -13.7  | 84    | 0.00     |
| 30 C  | Chloroform                  | 0.972 | 1.084 | -11.5# | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 0.951 | 0.852 | 10.4   | 71    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.879 | 0.934 | -6.3   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.496 | 0.492 | 0.8    | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 75    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.302 | 0.308 | -2.0   | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.506 | 0.519 | -2.6   | 78    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.319 | 0.356 | -11.6  | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.522 | 0.566 | -8.4   | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.601 | 0.608 | -1.2   | 74    | 0.00     |
| 40 TM | Benzene                     | 1.430 | 1.559 | -9.0   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.172 | 0.186 | -8.1   | 81    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.430 | 0.486 | -13.0  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.569 | 0.624 | -9.7   | 81    | 0.00     |
| 44 TM | Trichloroethene             | 0.377 | 0.410 | -8.8   | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.361 | 0.393 | -8.9#  | 84    | 0.00     |
| 46 T  | Dibromomethane              | 0.206 | 0.241 | -17.0  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.485 | 0.552 | -13.8  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.262 | 0.283 | -8.0   | 77    | 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                 | 0.003 | 0.003 | 0.0    | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.103 | 1.088 | 1.4    | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.308 | 0.366 | -18.8  | 86    | 0.00     |
| 52 CM | Toluene                     | 0.863 | 0.987 | -14.4# | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.509 | 0.583 | -14.5  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.576 | 0.644 | -11.8  | 83    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.287 | 0.338 | -17.8  | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.382 | 0.459 | -20.2  | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.489 | 0.566 | -15.7  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.201 | 0.253 | -25.9# | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.224 | 0.265 | -18.3  | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.349 | 0.423 | -21.2  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.276 | 0.325 | -17.8  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.372 | 0.392 | -5.4   | 80    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.364 | 0.379 | -4.1   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 1.049 | 1.133 | -8.0   | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.388 | 0.430 | -10.8  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.845 | 1.997 | -8.2#  | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.710 | 0.769 | -8.3   | 84    | 0.00     |
| 69 T  | o-Xylene                    | 0.662 | 0.723 | -9.2   | 86    | 0.00     |
| 70 T  | Styrene                     | 1.105 | 1.263 | -14.3  | 88    | 0.00     |
| 71 P  | Bromoform                   | 0.253 | 0.296 | -17.0  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.544 | 3.625 | -2.3   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 1.115 | 1.147 | -2.9   | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.797 | 0.876 | -9.9   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.597 | 0.667 | -11.7  | 95    | 0.00     |
| 77 T  | Bromobenzene                | 0.861 | 0.913 | -6.0   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 4.369 | 4.486 | -2.7   | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.428 | 2.502 | -3.0   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.924 | 3.054 | -4.4   | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.288 | 0.300 | -4.2   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.513 | 2.628 | -4.6   | 88    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.524 | 2.612 | -3.5   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.860 | 3.041 | -6.3   | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.851 | 3.984 | -3.5   | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.147 | 3.328 | -5.8   | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.660 | 1.763 | -6.2   | 90    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.694 | 1.776 | -4.8   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.013 | 3.120 | -3.6   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.655 | 0.678 | -3.5   | 90    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.501 | 1.642 | -9.4   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.129 | 0.142 | -10.1  | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.924 | 1.007 | -9.0   | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.564 | 0.578 | -2.5   | 90    | 0.00     |
| 95 T  | Naphthalene                 | 1.852 | 2.145 | -15.8  | 93    | 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 | 0.822 | 0.902 | -9.7 | 92    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 5