

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072324\  
 Data File : VY018900.D  
 Acq On : 23 Jul 2024 17:18  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 24 01:48:25 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y070924S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 09 14:28:51 2024  
 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   | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.419 | 0.383 | 8.6   | 62    | 0.00     |
| 3 P   | Chloromethane               | 0.637 | 0.558 | 12.4  | 63    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.745 | 0.688 | 7.7#  | 65    | 0.00     |
| 5 T   | Bromomethane                | 0.512 | 0.491 | 4.1   | 74    | 0.00     |
| 6 T   | Chloroethane                | 0.484 | 0.463 | 4.3   | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.973 | 1.007 | -3.5  | 72    | 0.00     |
| 8 T   | Diethyl Ether               | 0.237 | 0.253 | -6.8  | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.499 | 0.490 | 1.8   | 67    | 0.00     |
| 10 T  | Methyl Iodide               | 0.538 | 0.572 | -6.3  | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.050 | 0.039 | 22.0  | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.483 | 0.475 | 1.7#  | 70    | 0.00     |
| 13 T  | Acrolein                    | 0.040 | 0.018 | 55.0# | 36#   | 0.00     |
| 14 T  | Allyl chloride              | 0.598 | 0.621 | -3.8  | 75    | 0.00     |
| 15 T  | Acrylonitrile               | 0.094 | 0.104 | -10.6 | 80    | 0.00     |
| 16 T  | Acetone                     | 0.091 | 0.109 | -19.8 | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.353 | 1.232 | 8.9   | 64    | 0.00     |
| 18 T  | Methyl Acetate              | 0.264 | 0.280 | -6.1  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.121 | 1.203 | -7.3  | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 0.610 | 0.562 | 7.9   | 77    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.510 | 0.508 | 0.4   | 71    | 0.01     |
| 22 T  | Diisopropyl ether           | 1.302 | 1.356 | -4.1  | 77    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.026 | 1.101 | -7.3  | 76    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.831 | 0.852 | -2.5  | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 0.127 | 0.147 | -15.7 | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.771 | 0.779 | -1.0  | 73    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.594 | 0.623 | -4.9  | 77    | 0.00     |
| 28 T  | Bromochloromethane          | 0.334 | 0.375 | -12.3 | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.078 | 0.087 | -11.5 | 79    | 0.00     |
| 30 C  | Chloroform                  | 0.926 | 0.983 | -6.2# | 78    | 0.00     |
| 31 T  | Cyclohexane                 | 0.756 | 0.680 | 10.1  | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.861 | 0.895 | -3.9  | 73    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.492 | 0.511 | -3.9  | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.336 | -7.3  | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.432 | 0.424 | 1.9   | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.180 | 0.197 | -9.4  | 77    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 0.521 | 0.528 | -1.3  | 71    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.554 | 0.552 | 0.4   | 69    | 0.00     |
| 40 TM | Benzene                     | 1.254 | 1.285 | -2.5  | 75    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.102 | 0.115 | -12.7 | 88    | -0.04    |
| 42 TM | 1,2-Dichloroethane          | 0.351 | 0.382 | -8.8  | 79    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.357 | 0.388 | -8.7  | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.378 | -5.6  | 77    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.273 | 0.290 | -6.2# | 78    | 0.00     |
| 46 T  | Dibromomethane              | 0.177 | 0.194 | -9.6  | 78    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.442 | 0.490 | -10.9 | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.162 | 0.182 | -12.3 | 80    | 0.00     |

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 MSVOA\_Y  
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 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   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 1.186 | 1.217 | -2.6  | 70    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.182 | 0.209 | -14.8 | 81    | 0.00     |
| 52 CM | Toluene                     | 0.833 | 0.854 | -2.5# | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.382 | 0.422 | -10.5 | 80    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.448 | 0.490 | -9.4  | 78    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.224 | 0.246 | -9.8  | 80    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.295 | 0.334 | -13.2 | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.371 | 0.415 | -11.9 | 81    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.141 | 0.158 | -12.1 | 75    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.128 | 0.149 | -16.4 | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.308 | 0.350 | -13.6 | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.218 | 0.242 | -11.0 | 78    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.405 | 0.419 | -3.5  | 72    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.405 | 0.457 | -12.8 | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 1.055 | 1.095 | -3.8  | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.363 | 0.398 | -9.6  | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.848 | 1.840 | 0.4#  | 75    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.722 | 0.4   | 74    | 0.00     |
| 69 T  | o-Xylene                    | 0.682 | 0.704 | -3.2  | 76    | 0.00     |
| 70 T  | Styrene                     | 1.137 | 1.176 | -3.4  | 77    | 0.00     |
| 71 P  | Bromoform                   | 0.198 | 0.228 | -15.2 | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.659 | 3.665 | -0.2  | 74    | 0.00     |
| 74 T  | N-amyl acetate              | 0.748 | 0.764 | -2.1  | 72    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.577 | 0.605 | -4.9  | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.392 | 0.490 | -25.0 | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.874 | 0.908 | -3.9  | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 4.346 | 4.290 | 1.3   | 74    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.443 | 2.446 | -0.1  | 76    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.994 | 3.018 | -0.8  | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.175 | 0.177 | -1.1  | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.516 | 2.474 | 1.7   | 75    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.764 | 2.782 | -0.7  | 76    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.975 | 2.929 | 1.5   | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.924 | 3.894 | 0.8   | 72    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.387 | 3.462 | -2.2  | 76    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.716 | 1.789 | -4.3  | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.701 | 1.704 | -0.2  | 77    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.071 | 3.020 | 1.7   | 72    | 0.00     |
| 90 T  | Hexachloroethane            | 0.630 | 0.661 | -4.9  | 78    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.482 | 1.555 | -4.9  | 80    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.093 | 0.101 | -8.6  | 75    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.905 | 0.993 | -9.7  | 79    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.521 | 0.572 | -9.8  | 78    | 0.00     |
| 95 T  | Naphthalene                 | 1.552 | 1.713 | -10.4 | 77    | 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 | 0.774 | 0.817 | -5.6 | 76    | 0.00     |

(#) = Out of Range

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