

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120624\  
 Data File : VY020528.D  
 Acq On : 06 Dec 2024 10:54  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 07 03:21:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 03 01:39:23 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   | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.488 | 0.499 | -2.3  | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.494 | 0.500 | -1.2  | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.503 | 0.511 | -1.6# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.295 | 0.305 | -3.4  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.309 | 0.308 | 0.3   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.943 | 0.921 | 2.3   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 0.267 | 0.253 | 5.2   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.549 | 0.532 | 3.1   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.617 | 0.633 | -2.6  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.033 | 0.033 | 0.0   | 92    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.519 | 0.516 | 0.6#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.031 | 0.024 | 22.6  | 81    | 0.00     |
| 14 T  | Allyl chloride              | 0.926 | 0.923 | 0.3   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.111 | 0.110 | 0.9   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.126 | 0.141 | -11.9 | 91    | -0.01    |
| 17 T  | Carbon Disulfide            | 1.486 | 1.570 | -5.7  | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 0.269 | 0.266 | 1.1   | 90    | -0.01    |
| 19 T  | Methyl tert-butyl Ether     | 1.326 | 1.286 | 3.0   | 90    | -0.01    |
| 20 T  | Methylene Chloride          | 0.538 | 0.545 | -1.3  | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.576 | 0.582 | -1.0  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.841 | 1.826 | 0.8   | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.974 | 0.976 | -0.2  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.108 | 1.106 | 0.2   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.160 | 0.162 | -1.3  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.048 | 1.046 | 0.2   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.673 | 0.674 | -0.1  | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.414 | 0.416 | -0.5  | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.091 | 0.087 | 4.4   | 84    | 0.00     |
| 30 C  | Chloroform                  | 1.137 | 1.120 | 1.5#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 1.002 | 0.940 | 6.2   | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.095 | 1.066 | 2.6   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.509 | 0.468 | 8.1   | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.294 | 6.7   | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.532 | 0.526 | 1.1   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.211 | 0.212 | -0.5  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.634 | 0.635 | -0.2  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.660 | 0.653 | 1.1   | 89    | 0.00     |
| 40 TM | Benzene                     | 1.567 | 1.563 | 0.3   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.120 | 0.117 | 2.5   | 83    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.412 | 0.420 | -1.9  | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.425 | 0.414 | 2.6   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.386 | 0.390 | -1.0  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.367 | 0.358 | 2.5#  | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.182 | 0.187 | -2.7  | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.535 | 0.537 | -0.4  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.198 | 0.193 | 2.5   | 87    | 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   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 1.199 | 1.118 | 6.8   | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.210 | 0.209 | 0.5   | 88    | 0.00     |
| 52 CM | Toluene                     | 0.978 | 0.994 | -1.6# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.480 | 0.485 | -1.0  | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.568 | 0.581 | -2.3  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.242 | 0.242 | 0.0   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.343 | 0.346 | -0.9  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.434 | 0.437 | -0.7  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.160 | 0.175 | -9.4  | 84    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.152 | 0.154 | -1.3  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.337 | 0.345 | -2.4  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.222 | 0.211 | 5.0   | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.419 | 0.390 | 6.9   | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.422 | 0.403 | 4.5   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.253 | 1.223 | 2.4   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.444 | 0.426 | 4.1   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.349 | 2.315 | 1.4#  | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.860 | 0.850 | 1.2   | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.806 | 0.791 | 1.9   | 95    | 0.00     |
| 70 T  | Styrene                     | 1.344 | 1.341 | 0.2   | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.226 | 0.225 | 0.4   | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.838 | 4.301 | 11.1  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 0.948 | 0.831 | 12.3  | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.696 | 0.601 | 13.6  | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.509 | 0.457 | 10.2  | 112   | 0.00     |
| 77 T  | Bromobenzene                | 1.002 | 0.893 | 10.9  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 5.728 | 5.119 | 10.6  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.232 | 2.842 | 12.1  | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.877 | 3.476 | 10.3  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.248 | 0.220 | 11.3  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.298 | 2.939 | 10.9  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.505 | 3.148 | 10.2  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.768 | 3.419 | 9.3   | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 5.023 | 4.562 | 9.2   | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 4.151 | 3.803 | 8.4   | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.932 | 1.754 | 9.2   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.891 | 1.693 | 10.5  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.850 | 3.554 | 7.7   | 99    | 0.00     |
| 90 T  | Hexachloroethane            | 0.809 | 0.735 | 9.1   | 100   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.639 | 1.508 | 8.0   | 99    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.105 | 0.093 | 11.4  | 89    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.921 | 0.876 | 4.9   | 98    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.645 | 0.614 | 4.8   | 98    | 0.00     |
| 95 T  | Naphthalene                 | 1.491 | 1.426 | 4.4   | 92    | 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 | 0.743 | 0.724 | 2.6  | 99    | 0.00     |

(#) = Out of Range

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