

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022724\  
 Data File : VY017489.D  
 Acq On : 27 Feb 2024 10:20  
 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: Feb 28 00:56:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022324S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 24 04:41:20 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    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.369 | 0.350 | 5.1    | 92    | 0.00     |
| 3 P   | Chloromethane               | 0.674 | 0.582 | 13.6   | 83    | 0.01     |
| 4 C   | Vinyl Chloride              | 0.865 | 0.759 | 12.3#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 0.705 | 0.629 | 10.8   | 87    | 0.01     |
| 6 T   | Chloroethane                | 0.545 | 0.498 | 8.6    | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.881 | 0.824 | 6.5    | 88    | 0.01     |
| 8 T   | Diethyl Ether               | 0.258 | 0.260 | -0.8   | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.507 | 0.512 | -1.0   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 0.569 | 0.595 | -4.6   | 90    | 0.01     |
| 11 T  | Tert butyl alcohol          | 0.040 | 0.029 | 27.5#  | 74    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.472 | 0.485 | -2.8#  | 95    | 0.02     |
| 13 T  | Acrolein                    | 0.053 | 0.060 | -13.2  | 105   | 0.01     |
| 14 T  | Allyl chloride              | 0.571 | 0.573 | -0.4   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.106 | 0.108 | -1.9   | 89    | 0.00     |
| 16 T  | Acetone                     | 0.092 | 0.121 | -31.5# | 119   | 0.01     |
| 17 T  | Carbon Disulfide            | 1.418 | 1.423 | -0.4   | 92    | 0.01     |
| 18 T  | Methyl Acetate              | 0.223 | 0.234 | -4.9   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.101 | 1.141 | -3.6   | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 0.658 | 0.570 | 13.4   | 93    | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 0.553 | 0.581 | -5.1   | 95    | 0.01     |
| 22 T  | Diisopropyl ether           | 1.317 | 1.391 | -5.6   | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 0.785 | 0.823 | -4.8   | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.900 | 0.921 | -2.3   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.131 | 0.154 | -17.6  | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.756 | 0.771 | -2.0   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.621 | 0.663 | -6.8   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 0.354 | 0.371 | -4.8   | 114   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.079 | 0.081 | -2.5   | 87    | 0.00     |
| 30 C  | Chloroform                  | 0.958 | 1.010 | -5.4#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.771 | 0.750 | 2.7    | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.832 | 0.852 | -2.4   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.474 | 0.452 | 4.6    | 91    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.348 | 0.341 | 2.0    | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.470 | 0.488 | -3.8   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.186 | 0.191 | -2.7   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.471 | 0.502 | -6.6   | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.565 | 0.601 | -6.4   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.396 | 1.485 | -6.4   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.093 | 0.095 | -2.2   | 84    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.341 | 0.355 | -4.1   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.326 | 0.338 | -3.7   | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.402 | 0.422 | -5.0   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.332 | 0.351 | -5.7#  | 94    | 0.00     |
| 46 T  | Dibromomethane              | 0.190 | 0.205 | -7.9   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.462 | 0.499 | -8.0   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.151 | 0.159 | -5.3   | 88    | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA\_Y  
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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   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 1.218 | 1.285 | -5.5  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.182 | 0.193 | -6.0  | 90    | 0.00     |
| 52 CM | Toluene                     | 0.880 | 0.951 | -8.1# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.428 | 0.461 | -7.7  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.521 | 0.562 | -7.9  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.270 | 0.290 | -7.4  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.303 | 0.334 | -10.2 | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.439 | 0.465 | -5.9  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.156 | 0.174 | -11.5 | 112   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.125 | 0.153 | -22.4 | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.319 | 0.356 | -11.6 | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.249 | 0.271 | -8.8  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.383 | 0.405 | -5.7  | 93    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.480 | 0.476 | 0.8   | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.061 | 1.142 | -7.6  | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.398 | 0.432 | -8.5  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.861 | 2.032 | -9.2# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.731 | 0.805 | -10.1 | 96    | 0.00     |
| 69 T  | o-Xylene                    | 0.679 | 0.754 | -11.0 | 96    | 0.00     |
| 70 T  | Styrene                     | 1.126 | 1.259 | -11.8 | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.220 | 0.249 | -13.2 | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.715 | 3.918 | -5.5  | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 0.655 | 0.677 | -3.4  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.638 | 0.697 | -9.2  | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.475 | 0.461 | 2.9   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 0.900 | 0.955 | -6.1  | 99    | 0.00     |
| 78 T  | n-propylbenzene             | 4.457 | 4.771 | -7.0  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.495 | 2.573 | -3.1  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.976 | 3.199 | -7.5  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.207 | 0.205 | 1.0   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.552 | 2.666 | -4.5  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.613 | 2.813 | -7.7  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.938 | 3.187 | -8.5  | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.996 | 4.263 | -6.7  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.271 | 3.576 | -9.3  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.806 | 1.924 | -6.5  | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.755 | 1.853 | -5.6  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.984 | 3.205 | -7.4  | 94    | 0.00     |
| 90 T  | Hexachloroethane            | 0.656 | 0.696 | -6.1  | 99    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.527 | 1.626 | -6.5  | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.090 | 0.092 | -2.2  | 96    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.807 | 0.935 | -15.9 | 101   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.498 | 0.559 | -12.2 | 105   | 0.00     |
| 95 T  | Naphthalene                 | 1.379 | 1.593 | -15.5 | 96    | 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 | 0.692 | 0.799 | -15.5 | 101   | 0.00     |

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