

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY062522\  
 Data File : VY009316.D  
 Acq On : 25 Jun 2022 10:25  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 27 10:22:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y062422S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 25 07:08:46 2022  
 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   | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.413 | 0.388 | 6.1   | 111   | 0.00     |
| 3 P   | Chloromethane               | 0.485 | 0.461 | 4.9   | 108   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.522 | 0.487 | 6.7#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 0.336 | 0.283 | 15.8  | 103   | 0.00     |
| 6 T   | Chloroethane                | 0.264 | 0.243 | 8.0   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.664 | 0.620 | 6.6   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 0.258 | 0.273 | -5.8  | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.474 | 0.472 | 0.4   | 111   | 0.00     |
| 10 T  | Methyl Iodide               | 0.630 | 0.606 | 3.8   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.104 | 0.062 | 40.4# | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.466 | 0.452 | 3.0#  | 106   | 0.00     |
| 13 T  | Acrolein                    | 0.046 | 0.042 | 8.7   | 95    | 0.00     |
| 14 T  | Allyl chloride              | 0.819 | 0.804 | 1.8   | 104   | 0.00     |
| 15 T  | Acrylonitrile               | 0.142 | 0.147 | -3.5  | 109   | 0.00     |
| 16 T  | Acetone                     | 0.128 | 0.154 | -20.3 | 128   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.518 | 1.443 | 4.9   | 104   | 0.00     |
| 18 T  | Methyl Acetate              | 0.356 | 0.347 | 2.5   | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.310 | 1.358 | -3.7  | 108   | 0.00     |
| 20 T  | Methylene Chloride          | 0.651 | 0.536 | 17.7  | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.550 | 0.558 | -1.5  | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.622 | 1.660 | -2.3  | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.044 | 1.101 | -5.5  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.936 | 0.958 | -2.4  | 107   | 0.00     |
| 25 T  | 2-Butanone                  | 0.192 | 0.210 | -9.4  | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.868 | 0.861 | 0.8   | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.603 | 0.618 | -2.5  | 109   | 0.00     |
| 28 T  | Bromochloromethane          | 0.400 | 0.424 | -6.0  | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.123 | 0.131 | -6.5  | 111   | 0.00     |
| 30 C  | Chloroform                  | 0.944 | 0.962 | -1.9# | 109   | 0.00     |
| 31 T  | Cyclohexane                 | 0.904 | 0.871 | 3.7   | 108   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.833 | 0.861 | -3.4  | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.436 | 0.354 | 18.8  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.270 | 0.251 | 7.0   | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.453 | 0.471 | -4.0  | 109   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.257 | 0.268 | -4.3  | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.466 | 0.482 | -3.4  | 108   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.564 | 0.588 | -4.3  | 107   | 0.00     |
| 40 TM | Benzene                     | 1.333 | 1.365 | -2.4  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.138 | 0.121 | 12.3  | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.375 | 0.383 | -2.1  | 107   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.475 | 0.498 | -4.8  | 111   | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.380 | -1.9  | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.327 | 0.337 | -3.1# | 107   | 0.00     |
| 46 T  | Dibromomethane              | 0.190 | 0.194 | -2.1  | 107   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.441 | 0.460 | -4.3  | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.211 | 0.222 | -5.2  | 113   | 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                 | 0.003 | 0.003 | 0.0   | 109   | 0.00     |
| 50 S  | Toluene-d8                  | 0.960 | 0.755 | 21.4  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.240 | 0.251 | -4.6  | 111   | 0.00     |
| 52 CM | Toluene                     | 0.826 | 0.846 | -2.4# | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.467 | 0.494 | -5.8  | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.532 | 0.559 | -5.1  | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.261 | 0.274 | -5.0  | 110   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.345 | 0.379 | -9.9  | 112   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.444 | 0.467 | -5.2  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.179 | 0.197 | -10.1 | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.167 | 0.181 | -8.4  | 115   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.316 | 0.332 | -5.1  | 109   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.256 | 0.266 | -3.9  | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.384 | 0.351 | 8.6   | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.435 | 0.457 | -5.1  | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 0.992 | 1.021 | -2.9  | 107   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.355 | 0.374 | -5.4  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.752 | 1.793 | -2.3# | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.688 | 0.697 | -1.3  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.646 | 0.679 | -5.1  | 110   | 0.00     |
| 70 T  | Styrene                     | 1.072 | 1.114 | -3.9  | 108   | 0.00     |
| 71 P  | Bromoform                   | 0.219 | 0.232 | -5.9  | 110   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.447 | 3.658 | -6.1  | 110   | 0.00     |
| 74 T  | N-amyl acetate              | 0.926 | 0.985 | -6.4  | 113   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.650 | 0.680 | -4.6  | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.485 | 0.496 | -2.3  | 114   | 0.00     |
| 77 T  | Bromobenzene                | 0.844 | 0.883 | -4.6  | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 4.251 | 4.406 | -3.6  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.362 | 2.487 | -5.3  | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.904 | 3.057 | -5.3  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.245 | 0.261 | -6.5  | 113   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.461 | 2.565 | -4.2  | 110   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.539 | 2.656 | -4.6  | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.863 | 3.019 | -5.4  | 110   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.767 | 3.920 | -4.1  | 109   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.116 | 3.290 | -5.6  | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.626 | 1.696 | -4.3  | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.640 | 1.703 | -3.8  | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.922 | 3.066 | -4.9  | 112   | 0.00     |
| 90 T  | Hexachloroethane            | 0.590 | 0.628 | -6.4  | 112   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.459 | 1.529 | -4.8  | 110   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.112 | 0.117 | -4.5  | 110   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.878 | 0.992 | -13.0 | 118   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.485 | 0.536 | -10.5 | 116   | 0.00     |
| 95 T  | Naphthalene                 | 1.757 | 2.078 | -18.3 | 119   | 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 | 0.760 | 0.860 | -13.2 | 117   | 0.00     |

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