

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051421\  
 Data File : VY004791.D  
 Acq On : 14 May 2021 18:26  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.02G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 15 04:00:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y051021S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 11 04:13:44 2021  
 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   | 116   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.458 | 0.417 | 9.0   | 105   | 0.00     |
| 3 P   | Chloromethane               | 0.742 | 0.648 | 12.7  | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.759 | 0.680 | 10.4# | 107   | 0.00     |
| 5 T   | Bromomethane                | 0.387 | 0.376 | 2.8   | 114   | 0.00     |
| 6 T   | Chloroethane                | 0.448 | 0.434 | 3.1   | 111   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.901 | 0.905 | -0.4  | 115   | 0.00     |
| 8 T   | Diethyl Ether               | 0.318 | 0.331 | -4.1  | 124   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.511 | 0.503 | 1.6   | 114   | 0.00     |
| 10 T  | Methyl Iodide               | 0.547 | 0.565 | -3.3  | 116   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.060 | 0.064 | -6.7  | 142   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.494 | 0.492 | 0.4#  | 114   | 0.00     |
| 13 T  | Acrolein                    | 0.070 | 0.048 | 31.4# | 83    | 0.00     |
| 14 T  | Allyl chloride              | 0.966 | 0.983 | -1.8  | 117   | 0.00     |
| 15 T  | Acrylonitrile               | 0.160 | 0.170 | -6.3  | 126   | 0.00     |
| 16 T  | Acetone                     | 0.134 | 0.146 | -9.0  | 132   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.509 | 1.453 | 3.7   | 109   | 0.00     |
| 18 T  | Methyl Acetate              | 0.426 | 0.459 | -7.7  | 131   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.359 | 1.497 | -10.2 | 128   | 0.00     |
| 20 T  | Methylene Chloride          | 0.857 | 0.785 | 8.4   | 145   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.562 | 0.570 | -1.4  | 115   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.858 | 2.001 | -7.7  | 122   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.395 | 1.504 | -7.8  | 122   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.045 | 1.098 | -5.1  | 120   | 0.00     |
| 25 T  | 2-Butanone                  | 0.237 | 0.263 | -11.0 | 132   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.913 | 0.938 | -2.7  | 117   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.624 | 0.662 | -6.1  | 122   | 0.00     |
| 28 T  | Bromochloromethane          | 0.511 | 0.538 | -5.3  | 119   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.151 | 0.163 | -7.9  | 127   | 0.00     |
| 30 C  | Chloroform                  | 1.030 | 1.102 | -7.0# | 122   | 0.00     |
| 31 T  | Cyclohexane                 | 0.963 | 0.902 | 6.3   | 111   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.923 | 0.967 | -4.8  | 119   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.595 | 0.640 | -7.6  | 124   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 120   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.274 | 0.288 | -5.1  | 117   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.512 | 0.509 | 0.6   | 115   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.351 | 0.360 | -2.6  | 126   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.461 | 0.478 | -3.7  | 117   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.559 | 0.556 | 0.5   | 112   | 0.00     |
| 40 TM | Benzene                     | 1.449 | 1.493 | -3.0  | 119   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.192 | 0.184 | 4.2   | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.457 | 0.484 | -5.9  | 124   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.652 | 0.709 | -8.7  | 128   | 0.00     |
| 44 TM | Trichloroethene             | 0.389 | 0.400 | -2.8  | 118   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.379 | 0.396 | -4.5# | 121   | 0.00     |
| 46 T  | Dibromomethane              | 0.211 | 0.223 | -5.7  | 125   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.500 | 0.538 | -7.6  | 125   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.297 | 0.322 | -8.4  | 128   | 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   | 119   | 0.00     |
| 50 S  | Toluene-d8                  | 1.237 | 1.267 | -2.4  | 116   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.351 | 0.382 | -8.8  | 129   | 0.00     |
| 52 CM | Toluene                     | 0.915 | 0.958 | -4.7# | 120   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.554 | 0.590 | -6.5  | 123   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.616 | 0.647 | -5.0  | 122   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.290 | 0.309 | -6.6  | 126   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.419 | 0.471 | -12.4 | 129   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.516 | 0.551 | -6.8  | 124   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.217 | 0.229 | -5.5  | 130   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.238 | 0.264 | -10.9 | 130   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.345 | 0.369 | -7.0  | 126   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.280 | 0.301 | -7.5  | 124   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.417 | 0.437 | -4.8  | 120   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.452 | 0.445 | 1.5   | 115   | 0.00     |
| 65 PM | Chlorobenzene               | 1.029 | 1.063 | -3.3  | 120   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.374 | 0.387 | -3.5  | 121   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.912 | 1.981 | -3.6# | 119   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.718 | 0.749 | -4.3  | 118   | 0.00     |
| 69 T  | o-Xylene                    | 0.671 | 0.710 | -5.8  | 120   | 0.00     |
| 70 T  | Styrene                     | 1.126 | 1.226 | -8.9  | 122   | 0.00     |
| 71 P  | Bromoform                   | 0.227 | 0.245 | -7.9  | 127   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 118   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.772 | 3.940 | -4.5  | 117   | 0.00     |
| 74 T  | N-amyl acetate              | 1.334 | 1.459 | -9.4  | 125   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.753 | 0.813 | -8.0  | 127   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.531 | 0.590 | -11.1 | 130   | 0.00     |
| 77 T  | Bromobenzene                | 0.852 | 0.897 | -5.3  | 122   | 0.00     |
| 78 T  | n-propylbenzene             | 4.603 | 4.762 | -3.5  | 115   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.526 | 2.663 | -5.4  | 120   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.133 | 3.302 | -5.4  | 117   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.306 | 0.325 | -6.2  | 124   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.623 | 2.773 | -5.7  | 119   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.674 | 2.855 | -6.8  | 117   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.135 | 3.311 | -5.6  | 118   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.888 | 4.059 | -4.4  | 115   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.370 | 3.531 | -4.8  | 115   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.671 | 1.713 | -2.5  | 118   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.646 | 1.692 | -2.8  | 117   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.295 | 3.335 | -1.2  | 110   | 0.00     |
| 90 T  | Hexachloroethane            | 0.475 | 0.501 | -5.5  | 117   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.474 | 1.535 | -4.1  | 119   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.141 | 0.145 | -2.8  | 129   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.949 | 0.934 | 1.6   | 111   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.514 | 0.498 | 3.1   | 108   | 0.00     |
| 95 T  | Naphthalene                 | 2.054 | 2.207 | -7.4  | 121   | 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 | 0.840 | 0.834 | 0.7  | 113   | 0.00     |

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