

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\Vw122120\  
 Data File : Vw017683.D  
 Acq On : 21 Dec 2020 10:42  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 22 03:44:02 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W121420S.M  
 Quant Title : Sw846 8260  
 QLast Update : Mon Dec 14 12:39:23 2020  
 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    | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.392 | 0.419 | -6.9   | 100   | 0.00     |
| 3 P   | Chloromethane               | 0.442 | 0.378 | 14.5   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.640 | 0.658 | -2.8#  | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.492 | 0.648 | -31.7# | 119   | 0.00     |
| 6 T   | Chloroethane                | 0.400 | 0.457 | -14.2  | 105   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.507 | 0.557 | -9.9   | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 0.278 | 0.258 | 7.2    | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.550 | 0.546 | 0.7    | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.810 | 0.786 | 3.0    | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.056 | 0.035 | 37.5#  | 68    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.565 | 0.551 | 2.5#   | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.037 | 0.037 | 0.0    | 90    | 0.00     |
| 14 T  | Allyl chloride              | 0.870 | 0.815 | 6.3    | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 0.123 | 0.106 | 13.8   | 75    | 0.00     |
| 16 T  | Acetone                     | 0.133 | 0.142 | -6.8   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.651 | 1.565 | 5.2    | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.269 | 0.224 | 16.7   | 74    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 0.764 | 0.711 | 6.9    | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 0.665 | 0.582 | 12.5   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.627 | 0.612 | 2.4    | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.587 | 1.539 | 3.0    | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.068 | 0.985 | 7.8    | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.077 | 1.061 | 1.5    | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.176 | 0.154 | 12.5   | 75    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.792 | 0.705 | 11.0   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.670 | 0.660 | 1.5    | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.458 | 0.430 | 6.1    | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.099 | 0.083 | 16.2   | 74    | 0.00     |
| 30 C  | Chloroform                  | 1.094 | 1.114 | -1.8#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 1.052 | 0.957 | 9.0    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.935 | 0.956 | -2.2   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.609 | 0.569 | 6.6    | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.331 | 0.320 | 3.3    | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.523 | 0.526 | -0.6   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.219 | 0.195 | 11.0   | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.526 | 0.536 | -1.9   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.663 | 0.663 | 0.0    | 87    | 0.00     |
| 40 TM | Benzene                     | 1.387 | 1.423 | -2.6   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.124 | 0.107 | 13.7   | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.422 | 0.431 | -2.1   | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.410 | 0.375 | 8.5    | 78    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.384 | -0.3   | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.342 | 0.343 | -0.3#  | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.191 | 0.190 | 0.5    | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.488 | 0.506 | -3.7   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.201 | 0.188 | 6.5    | 78    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 79    | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 50 S  | Toluene-d8                  | 1.288 | 1.251 | 2.9   | 87    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.204 | 0.181 | 11.3  | 76    | 0.00     |
| 52 CM | Toluene                     | 0.907 | 0.938 | -3.4# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.499 | 0.493 | 1.2   | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.577 | 0.578 | -0.2  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.256 | 0.253 | 1.2   | 88    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.331 | 0.313 | 5.4   | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.452 | 0.447 | 1.1   | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.158 | 0.137 | 13.3  | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.137 | 0.135 | 1.5   | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.320 | 0.325 | -1.6  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.253 | 0.244 | 3.6   | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.460 | 0.447 | 2.8   | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.341 | 0.341 | 0.0   | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 1.075 | 1.095 | -1.9  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.381 | 0.393 | -3.1  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.997 | 2.055 | -2.9# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.762 | 0.789 | -3.5  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.718 | 0.736 | -2.5  | 94    | 0.00     |
| 70 T  | Styrene                     | 1.200 | 1.225 | -2.1  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.204 | 0.194 | 4.9   | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.954 | 4.118 | -4.1  | 96    | 0.00     |
| 74 T  | N-aryl acetate              | 0.829 | 0.734 | 11.5  | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.659 | 0.624 | 5.3   | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.481 | 0.421 | 12.5  | 80    | 0.00     |
| 77 T  | Bromobenzene                | 0.847 | 0.845 | 0.2   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.694 | 4.867 | -3.7  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.617 | 2.691 | -2.8  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.346 | 3.469 | -3.7  | 94    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.238 | 0.203 | 14.7  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.762 | 2.870 | -3.9  | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.862 | 3.030 | -5.9  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.296 | 3.408 | -3.4  | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.019 | 4.223 | -5.1  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.628 | 3.837 | -5.8  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.688 | 1.790 | -6.0  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.675 | 1.725 | -3.0  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.565 | 3.812 | -6.9  | 98    | 0.00     |
| 90 T  | Hexachloroethane            | 0.713 | 0.732 | -2.7  | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.500 | 1.607 | -7.1  | 97    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.120 | 0.108 | 10.0  | 78    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.960 | 1.002 | -4.4  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.504 | 0.528 | -4.8  | 95    | 0.00     |
| 95 T  | Naphthalene                 | 1.963 | 1.922 | 2.1   | 88    | 0.00     |
| 96 T  | 1,2,3-Trichlorobenzene      | 0.830 | 0.841 | -1.3  | 90    | 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) |
|----------|-------|------|------------|----------|
|----------|-------|------|------------|----------|

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