

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF060319\  
 Data File : VF062821.D  
 Acq On : 3 Jun 2019 10:56  
 Operator : FY/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 04 09:07:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 04:18:30 2019  
 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                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 96    | -0.02    |
| 2 T   | Dichlorodifluoromethane     | 0.649 | 0.551 | 15.1  | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.517 | 0.483 | 6.6   | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.514 | 0.464 | 9.7#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 0.293 | 0.279 | 4.8   | 83    | 0.00     |
| 6 T   | Chloroethane                | 0.192 | 0.161 | 16.1  | 73    | -0.02    |
| 7 T   | Trichlorofluoromethane      | 0.728 | 0.694 | 4.7   | 87    | -0.02    |
| 8 T   | Diethyl Ether               | 0.143 | 0.143 | 0.0   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.458 | 0.413 | 9.8   | 87    | -0.03    |
| 10 T  | Methyl Iodide               | 0.917 | 0.873 | 4.8   | 91    | -0.04    |
| 11 T  | Tert butyl alcohol          | 0.021 | 0.020 | 4.8   | 96    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 0.416 | 0.375 | 9.9#  | 86    | -0.02    |
| 13 T  | Acrolein                    | 0.009 | 0.009 | 0.0   | 103   | -0.02    |
| 14 T  | Allyl chloride              | 0.322 | 0.334 | -3.7  | 86    | -0.02    |
| 15 T  | Acrylonitrile               | 0.079 | 0.051 | 35.4# | 59    | -0.02    |
| 16 T  | Acetone                     | 0.079 | 0.090 | -13.9 | 101   | -0.02    |
| 17 T  | Carbon Disulfide            | 1.214 | 1.097 | 9.6   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.138 | 0.113 | 18.1  | 80    | -0.02    |
| 19 T  | Methyl tert-butyl Ether     | 0.753 | 0.705 | 6.4   | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 0.442 | 0.378 | 14.5  | 85    | -0.03    |
| 21 T  | trans-1,2-Dichloroethene    | 0.417 | 0.409 | 1.9   | 87    | -0.02    |
| 22 T  | Diisopropyl ether           | 0.916 | 0.866 | 5.5   | 90    | -0.02    |
| 23 T  | Vinyl Acetate               | 0.627 | 0.613 | 2.2   | 91    | -0.02    |
| 24 P  | 1,1-Dichloroethane          | 0.684 | 0.606 | 11.4  | 82    | -0.02    |
| 25 T  | 2-Butanone                  | 0.184 | 0.185 | -0.5  | 98    | -0.03    |
| 26 T  | 2,2-Dichloropropane         | 0.388 | 0.431 | -11.1 | 104   | -0.03    |
| 27 T  | cis-1,2-Dichloroethene      | 0.700 | 0.712 | -1.7  | 92    | -0.03    |
| 28 T  | Bromochloromethane          | 0.372 | 0.381 | -2.4  | 94    | -0.03    |
| 29    | Tetrahydrofuran             | 0.070 | 0.067 | 4.3   | 90    | -0.03    |
| 30 C  | Chloroform                  | 0.964 | 1.012 | -5.0# | 97    | -0.03    |
| 31 T  | Cyclohexane                 | 0.926 | 0.922 | 0.4   | 91    | -0.02    |
| 32 T  | 1,1,1-Trichloroethane       | 0.561 | 0.667 | -18.9 | 123   | -0.02    |
| 33 S  | 1,2-Dichloroethane-d4       | 0.346 | 0.348 | -0.6  | 89    | -0.02    |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 92    | -0.03    |
| 35 S  | Dibromofluoromethane        | 0.378 | 0.410 | -8.5  | 94    | -0.03    |
| 36 T  | 1,1-Dichloropropene         | 0.460 | 0.514 | -11.7 | 99    | -0.03    |
| 37 T  | Ethyl Acetate               | 0.176 | 0.184 | -4.5  | 93    | -0.03    |
| 38 T  | Carbon Tetrachloride        | 0.311 | 0.353 | -13.5 | 103   | -0.02    |
| 39 T  | Methylcyclohexane           | 0.573 | 0.650 | -13.4 | 99    | -0.02    |
| 40 TM | Benzene                     | 1.340 | 1.409 | -5.1  | 89    | -0.02    |
| 41 T  | Methacrylonitrile           | 0.098 | 0.095 | 3.1   | 89    | -0.02    |
| 42 TM | 1,2-Dichloroethane          | 0.255 | 0.265 | -3.9  | 91    | -0.02    |
| 43 T  | Isopropyl Acetate           | 0.232 | 0.244 | -5.2  | 97    | -0.02    |
| 44 TM | Trichloroethene             | 0.378 | 0.410 | -8.5  | 97    | -0.02    |
| 45 C  | 1,2-Dichloropropane         | 0.336 | 0.357 | -6.2# | 92    | -0.03    |

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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                    | AvqRF | CCRF  | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 46 T  | Dibromomethane              | 0.196 | 0.211 | -7.7   | 97    | -0.02    |
| 47 T  | Bromodichloromethane        | 0.400 | 0.416 | -4.0   | 92    | -0.03    |
| 48 T  | Methyl methacrylate         | 0.120 | 0.127 | -5.8   | 89    | -0.02    |
| 49 T  | 1,4-Dioxane                 | 0.002 | 0.002 | 0.0    | 113   | -0.02    |
| 50 S  | Toluene-d8                  | 0.955 | 1.092 | -14.3  | 98    | -0.03    |
| 51 T  | 4-Methyl-2-Pentanone        | 0.166 | 0.181 | -9.0   | 101   | -0.03    |
| 52 CM | Toluene                     | 0.722 | 0.845 | -17.0# | 104   | -0.03    |
| 53 T  | t-1,3-Dichloropropene       | 0.331 | 0.383 | -15.7  | 100   | -0.02    |
| 54 T  | cis-1,3-Dichloropropene     | 0.479 | 0.515 | -7.5   | 93    | -0.02    |
| 55 T  | 1,1,2-Trichloroethane       | 0.216 | 0.242 | -12.0  | 101   | -0.02    |
| 56 T  | Ethyl methacrylate          | 0.231 | 0.275 | -19.0  | 104   | -0.03    |
| 57 T  | 1,3-Dichloropropane         | 0.352 | 0.389 | -10.5  | 96    | -0.02    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.081 | 0.076 | 6.2    | 85    | -0.02    |
| 59 T  | 2-Hexanone                  | 0.118 | 0.134 | -13.6  | 105   | -0.02    |
| 60 T  | Dibromochloromethane        | 0.267 | 0.313 | -17.2  | 99    | -0.02    |
| 61 T  | 1,2-Dibromoethane           | 0.224 | 0.253 | -12.9  | 98    | -0.03    |
| 62 S  | 4-Bromofluorobenzene        | 0.344 | 0.384 | -11.6  | 97    | -0.02    |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 97    | -0.02    |
| 64 T  | Tetrachloroethene           | 0.384 | 0.390 | -1.6   | 92    | -0.02    |
| 65 PM | Chlorobenzene               | 0.966 | 1.044 | -8.1   | 101   | -0.02    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.385 | 0.398 | -3.4   | 98    | -0.02    |
| 67 C  | Ethyl Benzene               | 1.657 | 1.737 | -4.8#  | 100   | -0.02    |
| 68 T  | m/p-Xylenes                 | 0.634 | 0.644 | -1.6   | 96    | -0.02    |
| 69 T  | o-Xylene                    | 0.642 | 0.690 | -7.5   | 97    | -0.02    |
| 70 T  | Styrene                     | 0.946 | 1.002 | -5.9   | 97    | -0.02    |
| 71 P  | Bromoform                   | 0.184 | 0.202 | -9.8   | 99    | -0.02    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 104   | -0.02    |
| 73 T  | Isopropylbenzene            | 3.489 | 3.357 | 3.8    | 95    | -0.02    |
| 74 T  | N-amyl acetate              | 0.983 | 0.884 | 10.1   | 96    | -0.02    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 0.745 | 0.676 | 9.3    | 92    | -0.02    |
| 76 T  | 1,2,3-Trichloropropane      | 0.494 | 0.433 | 12.3   | 91    | -0.02    |
| 77 T  | Bromobenzene                | 0.877 | 0.827 | 5.7    | 97    | -0.02    |
| 78 T  | n-propylbenzene             | 4.212 | 3.820 | 9.3    | 90    | -0.02    |
| 79 T  | 2-Chlorotoluene             | 2.410 | 2.251 | 6.6    | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.853 | 2.618 | 8.2    | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.209 | 0.209 | 0.0    | 97    | -0.02    |
| 82 T  | 4-Chlorotoluene             | 2.369 | 2.228 | 6.0    | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.827 | 2.805 | 0.8    | 100   | -0.02    |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.705 | 2.744 | -1.4   | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.725 | 3.631 | 2.5    | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.101 | 3.205 | -3.4   | 105   | -0.02    |
| 87 T  | 1,3-Dichlorobenzene         | 1.546 | 1.622 | -4.9   | 111   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.443 | 1.504 | -4.2   | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 3.119 | 3.126 | -0.2   | 104   | -0.02    |

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|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.756 | 0.808 | -6.9  | 102   | -0.02    |
| 91 T | 1,2-Dichlorobenzene         | 1.359 | 1.425 | -4.9  | 106   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.081 | 0.086 | -6.2  | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 0.933 | 0.997 | -6.9  | 107   | -0.02    |
| 94 T | Hexachlorobutadiene         | 0.645 | 0.727 | -12.7 | 109   | -0.02    |
| 95 T | Naphthalene                 | 1.529 | 1.671 | -9.3  | 108   | -0.02    |
| 96 T | 1,2,3-Trichlorobenzene      | 0.852 | 0.921 | -8.1  | 109   | 0.00     |

(#) = Out of Range

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