

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX122018\  
 Data File : VX006687.D  
 Acq On : 20 Dec 2018 20:14  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 21 04:37:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.457 | 0.424 | 7.2   | 86    | 0.00     |
| 3 P   | Chloromethane               | 0.493 | 0.471 | 4.5   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.515 | 0.509 | 1.2#  | 92    | 0.00     |
| 5 T   | Bromomethane                | 0.560 | 0.497 | 11.3  | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.356 | 0.331 | 7.0   | 93    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.802 | 0.805 | -0.4  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.319 | 0.311 | 2.5   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.471 | 0.468 | 0.6   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.674 | 0.653 | 3.1   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.124 | -3.3  | 94    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.447 | 0.437 | 2.2#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.081 | 0.072 | 11.1  | 82    | 0.00     |
| 14 T  | Allyl chloride              | 0.752 | 0.766 | -1.9  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.267 | 0.287 | -7.5  | 97    | 0.00     |
| 16 T  | Acetone                     | 0.248 | 0.242 | 2.4   | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.182 | 1.076 | 9.0   | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 0.728 | 0.794 | -9.1  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.483 | 1.566 | -5.6  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.512 | 0.509 | 0.6   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.495 | 0.475 | 4.0   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.376 | 1.468 | -6.7  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.125 | 1.174 | -4.4  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.821 | 0.820 | 0.1   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.348 | 0.361 | -3.7  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.634 | 0.579 | 8.7   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.546 | 0.559 | -2.4  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.378 | 0.381 | -0.8  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.229 | 0.243 | -6.1  | 96    | 0.00     |
| 30 C  | Chloroform                  | 0.850 | 0.884 | -4.0# | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 0.746 | 0.726 | 2.7   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.718 | 0.746 | -3.9  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.539 | 0.540 | -0.2  | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.316 | 0.312 | 1.3   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.414 | 0.410 | 1.0   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.431 | 0.444 | -3.0  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.402 | 0.402 | 0.0   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.545 | 0.521 | 4.4   | 90    | 0.00     |
| 40 TM | Benzene                     | 1.259 | 1.271 | -1.0  | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.229 | 0.248 | -8.3  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.429 | 0.428 | 0.2   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.656 | 0.700 | -6.7  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 0.381 | 0.369 | 3.1   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.306 | 0.316 | -3.3# | 98    | 0.00     |

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 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.225 | 0.229 | -1.8  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.374 | 0.388 | -3.7  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.334 | 0.365 | -9.3  | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.192 | 1.190 | 0.2   | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.417 | 0.455 | -9.1  | 97    | 0.00     |
| 52 CM | Toluene                     | 0.813 | 0.846 | -4.1# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.401 | 0.422 | -5.2  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.440 | 0.479 | -8.9  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.333 | 0.348 | -4.5  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.470 | 0.512 | -8.9  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.536 | 0.550 | -2.6  | 96    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.250 | 0.263 | -5.2  | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.319 | 0.345 | -8.2  | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.307 | 0.341 | -11.1 | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.354 | 0.376 | -6.2  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.437 | 0.439 | -0.5  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.396 | 0.396 | 0.0   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 1.058 | 1.065 | -0.7  | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.330 | 0.361 | -9.4  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.729 | 1.764 | -2.0# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.682 | 0.698 | -2.3  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.674 | 0.685 | -1.6  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.066 | 1.106 | -3.8  | 92    | 0.00     |
| 71 P  | Bromoform                   | 0.251 | 0.272 | -8.4  | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.421 | 3.540 | -3.5  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.224 | 1.332 | -8.8  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.017 | 1.083 | -6.5  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.929 | 1.009 | -8.6  | 93    | 0.00     |
| 77 T  | Bromobenzene                | 0.925 | 0.952 | -2.9  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 3.767 | 3.930 | -4.3  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.283 | 2.333 | -2.2  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.817 | 2.916 | -3.5  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.259 | 0.275 | -6.2  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.618 | 2.662 | -1.7  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.820 | 2.970 | -5.3  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.963 | 3.011 | -1.6  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.457 | 3.569 | -3.2  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.039 | 3.206 | -5.5  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.667 | 1.702 | -2.1  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.709 | 1.686 | 1.3   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.586 | 2.734 | -5.7  | 94    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 90 T | Hexachloroethane            | 0.414 | 0.461 | -11.4 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.667 | 1.668 | -0.1  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.210 | 0.224 | -6.7  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.150 | 1.173 | -2.0  | 91    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.542 | 0.538 | 0.7   | 93    | 0.00     |
| 95 T | Naphthalene                 | 3.671 | 3.749 | -2.1  | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.187 | 1.174 | 1.1   | 92    | 0.00     |

(#) = Out of Range

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