

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX022020\  
 Data File : VX014968.D  
 Acq On : 20 Feb 2020 09:57  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 21 00:40:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.474 | 0.463 | 2.3   | 88    | 0.00     |
| 3 P   | Chloromethane               | 0.537 | 0.510 | 5.0   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.578 | 0.539 | 6.7#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 0.374 | 0.352 | 5.9   | 97    | 0.00     |
| 6 T   | Chloroethane                | 0.370 | 0.347 | 6.2   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.808 | 0.775 | 4.1   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 0.335 | 0.318 | 5.1   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.469 | 0.453 | 3.4   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.451 | 0.513 | -13.7 | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.100 | 0.091 | 9.0   | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.458 | 0.438 | 4.4#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.076 | 0.065 | 14.5  | 83    | 0.00     |
| 14 T  | Allyl chloride              | 0.813 | 0.760 | 6.5   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.253 | 0.241 | 4.7   | 90    | 0.00     |
| 16 T  | Acetone                     | 0.333 | 0.324 | 2.7   | 99    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.281 | 1.131 | 11.7  | 84    | 0.00     |
| 18 T  | Methyl Acetate              | 0.568 | 0.563 | 0.9   | 94    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.492 | 1.459 | 2.2   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.543 | 0.494 | 9.0   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.506 | 0.464 | 8.3   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.552 | 1.569 | -1.1  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.279 | 1.320 | -3.2  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.876 | 0.852 | 2.7   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 0.384 | 0.392 | -2.1  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.755 | 0.722 | 4.4   | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.565 | 0.545 | 3.5   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 0.339 | 0.348 | -2.7  | 100   | -0.01    |
| 29 T  | Tetrahydrofuran             | 0.218 | 0.211 | 3.2   | 88    | 0.00     |
| 30 C  | Chloroform                  | 0.869 | 0.850 | 2.2#  | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.798 | 0.757 | 5.1   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.760 | 0.737 | 3.0   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.564 | 0.526 | 6.7   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.307 | 0.298 | 2.9   | 98    | -0.01    |
| 36 T  | 1,1-Dichloropropene         | 0.447 | 0.439 | 1.8   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.466 | 0.455 | 2.4   | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.436 | 0.437 | -0.2  | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.559 | 0.550 | 1.6   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.336 | 1.312 | 1.8   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.251 | 0.257 | -2.4  | 91    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 0.483 | 0.476 | 1.4   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.770 | 0.765 | 0.6   | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.388 | 0.376 | 3.1   | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.341 | 0.340 | 0.3#  | 93    | 0.00     |

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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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.233 | 0.227 | 2.6   | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.462 | 0.465 | -0.6  | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.379 | 0.384 | -1.3  | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.007 | 0.007 | 0.0   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 1.173 | 1.129 | 3.8   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.465 | 0.466 | -0.2  | 91    | 0.00     |
| 52 CM | Toluene                     | 0.849 | 0.840 | 1.1#  | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.506 | 0.509 | -0.6  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.559 | 0.562 | -0.5  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.343 | 0.347 | -1.2  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.516 | 0.527 | -2.1  | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.578 | 0.572 | 1.0   | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.270 | 0.280 | -3.7  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.365 | 0.383 | -4.9  | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.384 | -3.8  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.371 | 0.361 | 2.7   | 92    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.423 | 0.413 | 2.4   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.467 | 0.417 | 10.7  | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 1.014 | 0.988 | 2.6   | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.368 | 0.373 | -1.4  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.725 | 1.751 | -1.5# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.664 | 0.672 | -1.2  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.639 | 0.642 | -0.5  | 93    | 0.00     |
| 70 T  | Styrene                     | 1.080 | 1.117 | -3.4  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.307 | 0.312 | -1.6  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.136 | 3.276 | -4.5  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 1.303 | 1.367 | -4.9  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.025 | 1.020 | 0.5   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.904 | 0.876 | 3.1   | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.875 | 0.853 | 2.5   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 3.627 | 3.767 | -3.9  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.132 | 2.194 | -2.9  | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.620 | 2.753 | -5.1  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.353 | 0.349 | 1.1   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.525 | 2.552 | -1.1  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.481 | 2.651 | -6.9  | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.640 | 2.776 | -5.2  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.082 | 3.250 | -5.5  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.884 | 3.020 | -4.7  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.570 | 1.556 | 0.9   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.603 | 1.560 | 2.7   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.583 | 2.665 | -3.2  | 92    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.504 | 0.539 | -6.9 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.540 | 1.540 | 0.0  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.240 | 0.220 | 8.3  | 88    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.136 | 1.114 | 1.9  | 90    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.550 | 0.557 | -1.3 | 93    | 0.00     |
| 95 T | Naphthalene                 | 3.022 | 3.164 | -4.7 | 90    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.098 | 1.107 | -0.8 | 91    | 0.00     |

(#) = Out of Range

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