

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051619\  
 Data File : VX009649.D  
 Acq On : 17 May 2019 08:20  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 17 09:02:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 2019  
 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   | 79    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.461 | 0.379 | 17.8  | 66    | 0.00     |
| 3 P   | Chloromethane               | 0.629 | 0.596 | 5.2   | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.613 | 0.592 | 3.4#  | 77    | 0.00     |
| 5 T   | Bromomethane                | 0.368 | 0.389 | -5.7  | 89    | 0.00     |
| 6 T   | Chloroethane                | 0.394 | 0.383 | 2.8   | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.746 | 0.756 | -1.3  | 82    | 0.00     |
| 8 T   | Diethyl Ether               | 0.353 | 0.363 | -2.8  | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.468 | 0.451 | 3.6   | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 0.483 | 0.568 | -17.6 | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.158 | 0.168 | -6.3  | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.469 | 0.468 | 0.2#  | 79    | 0.00     |
| 13 T  | Acrolein                    | 0.143 | 0.121 | 15.4  | 69    | 0.00     |
| 14 T  | Allyl chloride              | 1.143 | 1.101 | 3.7   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 0.386 | 0.409 | -6.0  | 88    | 0.00     |
| 16 T  | Acetone                     | 0.367 | 0.361 | 1.6   | 81    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.317 | 1.223 | 7.1   | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 0.872 | 0.933 | -7.0  | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.822 | 1.922 | -5.5  | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 0.593 | 0.581 | 2.0   | 81    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.509 | 0.509 | 0.0   | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.199 | 2.313 | -5.2  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.883 | 2.010 | -6.7  | 83    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.085 | 1.117 | -2.9  | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 0.570 | 0.608 | -6.7  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.807 | 0.460 | 43.0# | 46#   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.607 | 0.618 | -1.8  | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.487 | 0.383 | 21.4# | 61    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.366 | 0.403 | -10.1 | 88    | 0.00     |
| 30 C  | Chloroform                  | 0.981 | 1.028 | -4.8# | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 1.009 | 1.001 | 0.8   | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.817 | 0.847 | -3.7  | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.683 | 0.692 | -1.3  | 79    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.314 | 0.312 | 0.6   | 79    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.465 | 0.460 | 1.1   | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.647 | 0.687 | -6.2  | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.422 | 0.424 | -0.5  | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.571 | 0.534 | 6.5   | 76    | 0.00     |
| 40 TM | Benzene                     | 1.438 | 1.449 | -0.8  | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.385 | 0.397 | -3.1  | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.516 | 0.537 | -4.1  | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.036 | 1.110 | -7.1  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.341 | 2.0   | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.407 | 0.417 | -2.5# | 84    | 0.00     |

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 Quant Title : SW846 8260  
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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              | 0.236 | 0.240 | -1.7  | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.472 | 0.490 | -3.8  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.514 | 0.558 | -8.6  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.010 | 0.010 | 0.0   | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 1.269 | 1.219 | 3.9   | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.677 | 0.748 | -10.5 | 91    | 0.00     |
| 52 CM | Toluene                     | 0.874 | 0.877 | -0.3# | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.533 | 0.520 | 2.4   | 78    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.589 | 0.569 | 3.4   | 77    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.357 | 0.366 | -2.5  | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.637 | 0.684 | -7.4  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.628 | 0.642 | -2.2  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.338 | 0.300 | 11.2  | 69    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.532 | 0.580 | -9.0  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.348 | 0.370 | -6.3  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.360 | 0.372 | -3.3  | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.461 | 0.464 | -0.7  | 79    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.343 | 0.355 | -3.5  | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.363 | 0.372 | -2.5  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.841 | 1.853 | -0.7# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.673 | 0.684 | -1.6  | 84    | 0.00     |
| 69 T  | o-Xylene                    | 0.664 | 0.672 | -1.2  | 85    | 0.00     |
| 70 T  | Styrene                     | 1.154 | 1.185 | -2.7  | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.295 | 0.315 | -6.8  | 88    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 84    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.636 | 3.562 | 2.0   | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 2.120 | 2.218 | -4.6  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.355 | 1.355 | 0.0   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.160 | 1.160 | 0.0   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 0.902 | 0.900 | 0.2   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 4.152 | 4.101 | 1.2   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.562 | 2.485 | 3.0   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.061 | 3.020 | 1.3   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.453 | 0.385 | 15.0  | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.894 | 2.861 | 1.1   | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.978 | 2.904 | 2.5   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.073 | 3.078 | -0.2  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.531 | 3.489 | 1.2   | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.174 | 3.147 | 0.9   | 84    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.609 | 1.580 | 1.8   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.622 | 1.595 | 1.7   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.869 | 2.820 | 1.7   | 82    | 0.00     |

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

|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.541 | 0.556 | -2.8 | 86    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.639 | 1.627 | 0.7  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.304 | 0.313 | -3.0 | 85    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.121 | 1.112 | 0.8  | 83    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.572 | 0.556 | 2.8  | 83    | 0.00     |
| 95 T | Naphthalene                 | 3.646 | 3.698 | -1.4 | 84    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.136 | 1.142 | -0.5 | 85    | 0.00     |

(#) = Out of Range

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