

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX030520\  
 Data File : VX015115.D  
 Acq On : 05 Mar 2020 17:49  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 06 04:01:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.438 | 0.420 | 4.1   | 91    | 0.00     |
| 3 P   | Chloromethane               | 0.620 | 0.573 | 7.6   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.629 | 0.614 | 2.4#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.387 | 0.311 | 19.6  | 78    | 0.00     |
| 6 T   | Chloroethane                | 0.377 | 0.401 | -6.4  | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.748 | 0.735 | 1.7   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.339 | 0.331 | 2.4   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.471 | 0.465 | 1.3   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 0.532 | 0.309 | 41.9# | 50#   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.103 | 0.087 | 15.5  | 80    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.486 | 0.467 | 3.9#  | 92    | 0.00     |
| 13 T  | Acrolein                    | 0.097 | 0.076 | 21.6# | 75    | 0.00     |
| 14 T  | Allyl chloride              | 0.847 | 0.819 | 3.3   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 0.256 | 0.258 | -0.8  | 92    | 0.00     |
| 16 T  | Acetone                     | 0.240 | 0.212 | 11.7  | 83    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.349 | 1.271 | 5.8   | 89    | 0.00     |
| 18 T  | Methyl Acetate              | 0.587 | 0.539 | 8.2   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.518 | 1.547 | -1.9  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.562 | 0.529 | 5.9   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.519 | 0.506 | 2.5   | 92    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.688 | 1.717 | -1.7  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.388 | 1.454 | -4.8  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.937 | 0.926 | 1.2   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 0.352 | 0.342 | 2.8   | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.744 | 0.711 | 4.4   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.582 | 0.579 | 0.5   | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 0.427 | 0.437 | -2.3  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.227 | 0.225 | 0.9   | 91    | 0.00     |
| 30 C  | Chloroform                  | 0.913 | 0.915 | -0.2# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.836 | 0.835 | 0.1   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.757 | 0.767 | -1.3  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.593 | 0.590 | 0.5   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.315 | 0.315 | 0.0   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.462 | 0.446 | 3.5   | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.429 | 0.454 | -5.8  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.436 | 0.432 | 0.9   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.540 | 0.537 | 0.6   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.371 | 1.360 | 0.8   | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.258 | 0.255 | 1.2   | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.471 | 0.482 | -2.3  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.754 | 0.757 | -0.4  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 0.382 | 0.371 | 2.9   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.355 | 0.354 | 0.3#  | 93    | 0.00     |

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

|       | Compound                    | AvqRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.231 | 0.230 | 0.4   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.457 | 0.468 | -2.4  | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.384 | 0.380 | 1.0   | 92    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.007 | 12.5  | 76    | -0.01    |
| 50 S  | Toluene-d8                  | 1.200 | 1.214 | -1.2  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.446 | 0.462 | -3.6  | 92    | 0.00     |
| 52 CM | Toluene                     | 0.839 | 0.859 | -2.4# | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.487 | 0.509 | -4.5  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.550 | 0.565 | -2.7  | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.345 | 0.345 | 0.0   | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.492 | 0.528 | -7.3  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.581 | 0.584 | -0.5  | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.268 | 0.278 | -3.7  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.331 | 0.344 | -3.9  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.363 | 0.378 | -4.1  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.363 | 0.363 | 0.0   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.428 | 0.439 | -2.6  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.413 | 0.386 | 6.5   | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 1.004 | 0.993 | 1.1   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.379 | 0.362 | 4.5   | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.705 | 1.738 | -1.9# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.649 | 0.665 | -2.5  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.621 | 0.637 | -2.6  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.065 | 1.110 | -4.2  | 95    | 0.00     |
| 71 P  | Bromoform                   | 0.294 | 0.293 | 0.3   | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.194 | 3.162 | 1.0   | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 1.346 | 1.330 | 1.2   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.064 | 1.001 | 5.9   | 96    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.997 | 0.813 | 18.5  | 81    | 0.00     |
| 77 T  | Bromobenzene                | 0.890 | 0.831 | 6.6   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.649 | 3.650 | -0.0  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.179 | 2.119 | 2.8   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.659 | 2.637 | 0.8   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.351 | 0.322 | 8.3   | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.575 | 2.491 | 3.3   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.571 | 2.571 | 0.0   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.671 | 2.665 | 0.2   | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.104 | 3.070 | 1.1   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.859 | 2.853 | 0.2   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.565 | 1.469 | 6.1   | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.616 | 1.510 | 6.6   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.543 | 2.548 | -0.2  | 94    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.541 | 0.497 | 8.1  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.556 | 1.475 | 5.2  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.213 | 0.206 | 3.3  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.080 | 1.060 | 1.9  | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.554 | 0.501 | 9.6  | 92    | 0.00     |
| 95 T | Naphthalene                 | 2.952 | 3.023 | -2.4 | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.077 | 1.054 | 2.1  | 95    | 0.00     |

(#) = Out of Range

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