

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX010720\  
 Data File : VX014458.D  
 Acq On : 07 Jan 2020 20:50  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 08 03:16:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.557 | 0.614 | -10.2 | 95    | 0.00     |
| 3 P   | Chloromethane               | 0.637 | 0.624 | 2.0   | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.710 | 0.721 | -1.5# | 95    | 0.00     |
| 5 T   | Bromomethane                | 0.471 | 0.398 | 15.5  | 91    | 0.00     |
| 6 T   | Chloroethane                | 0.420 | 0.388 | 7.6   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.806 | 0.767 | 4.8   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.368 | 0.341 | 7.3   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.447 | 8.8   | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 0.587 | 0.521 | 11.2  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.117 | 0.116 | 0.9   | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.494 | 0.460 | 6.9#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.093 | 0.089 | 4.3   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 0.867 | 0.815 | 6.0   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.281 | 0.278 | 1.1   | 98    | 0.00     |
| 16 T  | Acetone                     | 0.303 | 0.279 | 7.9   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.378 | 1.271 | 7.8   | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 0.802 | 0.851 | -6.1  | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.585 | 1.548 | 2.3   | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 0.562 | 0.525 | 6.6   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.539 | 0.498 | 7.6   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.675 | 1.631 | 2.6   | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.297 | 1.034 | 20.3# | 78    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.911 | 0.890 | 2.3   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.417 | 0.411 | 1.4   | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.772 | 0.679 | 12.0  | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.603 | 0.575 | 4.6   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 0.384 | 0.346 | 9.9   | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.247 | 0.252 | -2.0  | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.891 | 0.862 | 3.3#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 0.853 | 0.841 | 1.4   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.762 | 0.743 | 2.5   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.558 | 0.539 | 3.4   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 101   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.303 | 0.284 | 6.3   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.470 | 0.433 | 7.9   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.511 | 0.495 | 3.1   | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.433 | 0.413 | 4.6   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.591 | 0.548 | 7.3   | 92    | 0.00     |
| 40 TM | Benzene                     | 1.396 | 1.330 | 4.7   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.272 | 0.276 | -1.5  | 99    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.488 | 0.452 | 7.4   | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.825 | 0.814 | 1.3   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.401 | 0.389 | 3.0   | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.356 | 0.341 | 4.2#  | 96    | 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                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 46 T  | Dibromomethane              | 0.248 | 0.222 | 10.5  | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.452 | 0.440 | 2.7   | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.395 | 0.402 | -1.8  | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 0.008 | 0.008 | 0.0   | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 1.175 | 1.126 | 4.2   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.503 | 0.504 | -0.2  | 98    | 0.00     |
| 52 CM | Toluene                     | 0.893 | 0.843 | 5.6#  | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.526 | 0.501 | 4.8   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.568 | 0.550 | 3.2   | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.359 | 0.339 | 5.6   | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.550 | 0.551 | -0.2  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.600 | 0.569 | 5.2   | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.187 | 0.192 | -2.7  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.398 | 0.394 | 1.0   | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.361 | 0.358 | 0.8   | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.380 | 0.354 | 6.8   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.431 | 0.414 | 3.9   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.501 | 0.579 | -15.6 | 114   | 0.00     |
| 65 PM | Chlorobenzene               | 1.085 | 1.010 | 6.9   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.387 | 0.368 | 4.9   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.849 | 1.768 | 4.4#  | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.714 | 0.678 | 5.0   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 0.681 | 0.654 | 4.0   | 95    | 0.00     |
| 70 T  | Styrene                     | 1.175 | 1.149 | 2.2   | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.317 | 0.312 | 1.6   | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.511 | 3.248 | 7.5   | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.549 | 1.457 | 5.9   | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.126 | 0.992 | 11.9  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.035 | 1.028 | 0.7   | 112   | 0.00     |
| 77 T  | Bromobenzene                | 0.974 | 0.869 | 10.8  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 4.021 | 3.743 | 6.9   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.397 | 2.166 | 9.6   | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.915 | 2.721 | 6.7   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.391 | 0.374 | 4.3   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.813 | 2.544 | 9.6   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.754 | 2.346 | 14.8  | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.946 | 2.729 | 7.4   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.424 | 3.214 | 6.1   | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.177 | 2.935 | 7.6   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.747 | 1.556 | 10.9  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.792 | 1.550 | 13.5  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.905 | 2.625 | 9.6   | 95    | 0.00     |

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|      | Compound                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 90 T | Hexachloroethane            | 0.558 | 0.509 | 8.8  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 1.712 | 1.523 | 11.0 | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.253 | 0.238 | 5.9  | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 1.310 | 1.131 | 13.7 | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 0.610 | 0.507 | 16.9 | 92    | 0.00     |
| 95 T | Naphthalene                 | 3.730 | 3.387 | 9.2  | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 1.278 | 1.103 | 13.7 | 95    | 0.00     |

(#) = Out of Range

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