

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030123\  
 Data File : VX034280.D  
 Acq On : 01 Mar 2023 09:43  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 02 00:38:02 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 17 12:33:35 2023  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev    | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|---------|-------|----------|
| 1 I   | Pentafluorobenzene          | 1.000 | 1.000 | 0.0     | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.432 | 0.452 | -4.6    | 77    | 0.00     |
| 3 P   | Chloromethane               | 0.622 | 0.631 | -1.4    | 76    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.566 | 0.639 | -12.9#  | 84    | 0.00     |
| 5 T   | Bromomethane                | 0.225 | 0.334 | -48.4#  | 107   | 0.00     |
| 6 T   | Chloroethane                | 0.285 | 0.352 | -23.5   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.766 | 0.913 | -19.2   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.309 | 0.335 | -8.4    | 87    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.539 | 0.513 | 4.8     | 72    | 0.00     |
| 10 T  | Methyl Iodide               | 0.657 | 0.648 | 1.4     | 72    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.151 | 0.116 | 23.2    | 62    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.541 | 0.512 | 5.4#    | 72    | 0.00     |
| 13 T  | Acrolein                    | 0.069 | 0.141 | -104.3# | 168#  | 0.00     |
| 14 T  | Allyl chloride              | 1.147 | 1.013 | 11.7    | 67    | 0.00     |
| 15 T  | Acrylonitrile               | 0.329 | 0.302 | 8.2     | 69    | 0.00     |
| 16 T  | Acetone                     | 0.347 | 0.346 | 0.3     | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.555 | 1.473 | 5.3     | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 1.075 | 0.959 | 10.8    | 66    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.909 | 1.796 | 5.9     | 71    | 0.00     |
| 20 T  | Methylene Chloride          | 0.626 | 0.579 | 7.5     | 74    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.567 | 0.565 | 0.4     | 75    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.011 | 2.065 | -2.7    | 77    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.611 | 1.603 | 0.5     | 75    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.104 | 1.057 | 4.3     | 73    | 0.00     |
| 25 T  | 2-Butanone                  | 0.503 | 0.474 | 5.8     | 73    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.000 | 0.941 | 5.9     | 72    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.671 | 0.668 | 0.4     | 75    | 0.00     |
| 28 T  | Bromochloromethane          | 0.493 | 0.464 | 5.9     | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.307 | 0.283 | 7.8     | 70    | 0.00     |
| 30 C  | Chloroform                  | 1.060 | 1.058 | 0.2#    | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 1.005 | 1.011 | -0.6    | 74    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.950 | 0.939 | 1.2     | 75    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.673 | 0.627 | 6.8     | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0     | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.326 | 0.327 | -0.3    | 79    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.481 | 0.496 | -3.1    | 75    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.538 | 0.534 | 0.7     | 71    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.495 | 0.507 | -2.4    | 76    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.620 | 0.637 | -2.7    | 75    | 0.00     |
| 40 TM | Benzene                     | 1.427 | 1.467 | -2.8    | 77    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.300 | 0.299 | 0.3     | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.502 | 0.514 | -2.4    | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.950 | 0.924 | 2.7     | 72    | 0.00     |
| 44 TM | Trichloroethene             | 0.366 | 0.383 | -4.6    | 77    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.380 | 0.384 | -1.1#   | 75    | 0.00     |
| 46 T  | Dibromomethane              | 0.250 | 0.253 | -1.2    | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.513 | 0.522 | -1.8    | 75    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.451 | 0.439 | 2.7     | 71    | 0.00     |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.008 | 11.1  | 69    | 0.00     |
| 50 S  | Toluene-d8                  | 1.169 | 1.214 | -3.8  | 80    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.522 | 0.537 | -2.9  | 76    | 0.00     |
| 52 CM | Toluene                     | 0.865 | 0.940 | -8.7# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.590 | 0.621 | -5.3  | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.632 | 0.644 | -1.9  | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.349 | 0.371 | -6.3  | 79    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.590 | 0.619 | -4.9  | 76    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.607 | 0.637 | -4.9  | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.256 | 0.249 | 2.7   | 73    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.398 | 0.423 | -6.3  | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.386 | 0.416 | -7.8  | 80    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.369 | 0.398 | -7.9  | 80    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.447 | 0.496 | -11.0 | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.353 | 0.355 | -0.6  | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 1.042 | 1.081 | -3.7  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.403 | 0.408 | -1.2  | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.872 | 1.975 | -5.5# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.717 | 0.755 | -5.3  | 84    | 0.00     |
| 69 T  | o-Xylene                    | 0.713 | 0.754 | -5.8  | 84    | 0.00     |
| 70 T  | Styrene                     | 1.160 | 1.245 | -7.3  | 84    | 0.00     |
| 71 P  | Bromoform                   | 0.329 | 0.337 | -2.4  | 81    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.811 | 3.854 | -1.1  | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 1.914 | 1.852 | 3.2   | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.303 | 1.237 | 5.1   | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.258 | 1.048 | 16.7  | 72    | 0.00     |
| 77 T  | Bromobenzene                | 0.917 | 0.917 | 0.0   | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 4.432 | 4.586 | -3.5  | 86    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.718 | 2.769 | -1.9  | 87    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.204 | 3.248 | -1.4  | 86    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.490 | 0.450 | 8.2   | 78    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.095 | 3.160 | -2.1  | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.281 | 3.239 | 1.3   | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.239 | 3.288 | -1.5  | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.985 | 4.104 | -3.0  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.298 | 3.433 | -4.1  | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.720 | 1.761 | -2.4  | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.735 | 1.759 | -1.4  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.937 | 3.117 | -6.1  | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.689 | 0.685 | 0.6   | 83    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.683 | 1.699 | -1.0  | 86    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.311 | 0.274 | 11.9  | 75    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.080 | 1.094 | -1.3  | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.448 | 0.462 | -3.1  | 85    | 0.00     |
| 95 T  | Naphthalene                 | 3.639 | 3.492 | 4.0   | 81    | 0.00     |

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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 1.073 | 1.064 | 0.8  | 83    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6