

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090123\  
 Data File : VX037472.D  
 Acq On : 01 Sep 2023 18:07  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 02 04:33:15 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 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   | 92    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.581 | 0.577 | 0.7   | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.508 | 0.533 | -4.9  | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.553 | 0.585 | -5.8# | 96    | 0.00     |
| 5 T   | Bromomethane                | 0.276 | 0.277 | -0.4  | 94    | 0.00     |
| 6 T   | Chloroethane                | 0.325 | 0.379 | -16.6 | 110   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.906 | 0.942 | -4.0  | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 0.351 | 0.373 | -6.3  | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.529 | 0.549 | -3.8  | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 0.642 | 0.710 | -10.6 | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.169 | 0.152 | 10.1  | 77    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 0.515 | 0.525 | -1.9# | 94    | 0.00     |
| 13 T  | Acrolein                    | 0.129 | 0.097 | 24.8  | 65    | 0.00     |
| 14 T  | Allyl chloride              | 0.797 | 0.795 | 0.3   | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.302 | 0.319 | -5.6  | 88    | 0.00     |
| 16 T  | Acetone                     | 0.282 | 0.257 | 8.9   | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.309 | 1.123 | 14.2  | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 1.062 | 1.071 | -0.8  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.952 | 2.026 | -3.8  | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 0.631 | 0.631 | 0.0   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.585 | 0.578 | 1.2   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.635 | 1.700 | -4.0  | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.253 | 1.264 | -0.9  | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.025 | 1.062 | -3.6  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.425 | 0.413 | 2.8   | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.916 | 0.854 | 6.8   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.690 | 0.722 | -4.6  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 0.458 | 0.459 | -0.2  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.271 | 0.264 | 2.6   | 81    | 0.00     |
| 30 C  | Chloroform                  | 1.151 | 1.173 | -1.9# | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 0.811 | 0.828 | -2.1  | 100   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.031 | 1.052 | -2.0  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.721 | 0.718 | 0.4   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.331 | 0.368 | -11.2 | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.470 | 0.465 | 1.1   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.481 | 0.474 | 1.5   | 82    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.511 | 0.520 | -1.8  | 92    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.494 | 0.568 | -15.0 | 117   | 0.00     |
| 40 TM | Benzene                     | 1.349 | 1.426 | -5.7  | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.250 | 0.252 | -0.8  | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.529 | 0.513 | 3.0   | 80    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.763 | 0.762 | 0.1   | 81    | 0.00     |
| 44 TM | Trichloroethene             | 0.383 | 0.388 | -1.3  | 89    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.333 | 0.357 | -7.2# | 89    | 0.00     |
| 46 T  | Dibromomethane              | 0.262 | 0.270 | -3.1  | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.502 | 0.521 | -3.8  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.372 | 0.371 | 0.3   | 82    | 0.00     |

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 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 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                 | 0.010 | 0.010 | 0.0    | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.201 | 1.266 | -5.4   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.463 | 0.473 | -2.2   | 85    | 0.00     |
| 52 CM | Toluene                     | 0.891 | 0.932 | -4.6#  | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.535 | 0.552 | -3.2   | 82    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.578 | 0.600 | -3.8   | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.363 | 0.400 | -10.2  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.569 | 0.610 | -7.2   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.612 | 0.648 | -5.9   | 88    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.273 | 0.276 | -1.1   | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.353 | 0.359 | -1.7   | 83    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.386 | 0.416 | -7.8   | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.397 | 0.420 | -5.8   | 87    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.472 | 0.511 | -8.3   | 95    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.365 | 0.330 | 9.6    | 83    | 0.00     |
| 65 PM | Chlorobenzene               | 1.057 | 1.090 | -3.1   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.390 | 0.424 | -8.7   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.860 | 1.920 | -3.2#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.718 | 0.751 | -4.6   | 93    | 0.00     |
| 69 T  | o-Xylene                    | 0.708 | 0.751 | -6.1   | 92    | 0.00     |
| 70 T  | Styrene                     | 1.167 | 1.245 | -6.7   | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.292 | 0.316 | -8.2   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.634 | 3.852 | -6.0   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 1.412 | 1.410 | 0.1    | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.224 | 1.288 | -5.2   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.065 | 1.065 | 0.0    | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.888 | 0.911 | -2.6   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.047 | 4.300 | -6.3   | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.586 | 2.655 | -2.7   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.032 | 3.258 | -7.5   | 99    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.381 | 0.373 | 2.1    | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.985 | 3.020 | -1.2   | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.891 | 3.319 | -14.8  | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.064 | 3.256 | -6.3   | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.377 | 4.056 | -20.1  | 117   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.907 | 3.416 | -17.5  | 113   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.662 | 1.719 | -3.4   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.717 | 1.715 | 0.1    | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.410 | 2.860 | -18.7  | 116   | 0.00     |
| 90 T  | Hexachloroethane            | 0.485 | 0.593 | -22.3  | 111   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.627 | 1.745 | -7.3   | 94    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.284 | 0.298 | -4.9   | 85    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.952 | 1.116 | -17.2  | 108   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.368 | 0.476 | -29.3# | 132   | 0.00     |
| 95 T  | Naphthalene                 | 4.171 | 4.032 | 3.3    | 92    | 0.00     |

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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) |
|------|------------------------|-------|-------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.946 | 1.123 | -18.7 | 107   | 0.00     |

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