

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050823\  
 Data File : VX035551.D  
 Acq On : 08 May 2023 11:38  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 09 03:39:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 16:31:40 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.529 | 0.512 | 3.2   | 94    | 0.00     |
| 3 P   | Chloromethane               | 0.481 | 0.405 | 15.8  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.483 | 0.438 | 9.3#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.321 | 0.273 | 15.0  | 87    | 0.00     |
| 6 T   | Chloroethane                | 0.282 | 0.244 | 13.5  | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.755 | 0.760 | -0.7  | 105   | 0.00     |
| 8 T   | Diethyl Ether               | 0.275 | 0.261 | 5.1   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.504 | 0.526 | -4.4  | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 0.636 | 0.595 | 6.4   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.110 | 0.111 | -0.9  | 99    | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 0.486 | 0.488 | -0.4# | 105   | 0.00     |
| 13 T  | Acrolein                    | 0.108 | 0.100 | 7.4   | 92    | 0.00     |
| 14 T  | Allyl chloride              | 0.855 | 0.886 | -3.6  | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.275 | 0.276 | -0.4  | 102   | 0.00     |
| 16 T  | Acetone                     | 0.262 | 0.279 | -6.5  | 112   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.164 | 1.232 | -5.8  | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 1.013 | 1.051 | -3.8  | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.666 | 1.753 | -5.2  | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 0.601 | 0.565 | 6.0   | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.527 | 0.536 | -1.7  | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.691 | 1.719 | -1.7  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.162 | 1.260 | -8.4  | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.953 | 0.979 | -2.7  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 0.382 | 0.387 | -1.3  | 103   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 0.746 | 0.834 | -11.8 | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.620 | 0.629 | -1.5  | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.406 | 0.376 | 7.4   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.245 | 0.239 | 2.4   | 100   | 0.00     |
| 30 C  | Chloroform                  | 0.962 | 1.009 | -4.9# | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 0.856 | 0.876 | -2.3  | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.843 | 0.907 | -7.6  | 108   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.603 | 0.614 | -1.8  | 104   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.307 | 0.337 | -9.8  | 108   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.494 | -3.1  | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.438 | 0.467 | -6.6  | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.455 | 0.520 | -14.3 | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.583 | 0.622 | -6.7  | 106   | 0.00     |
| 40 TM | Benzene                     | 1.375 | 1.417 | -3.1  | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.251 | 0.272 | -8.4  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.490 | 0.516 | -5.3  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.735 | 0.806 | -9.7  | 106   | 0.00     |
| 44 TM | Trichloroethene             | 0.379 | 0.402 | -6.1  | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.347 | 0.372 | -7.2# | 107   | 0.00     |
| 46 T  | Dibromomethane              | 0.238 | 0.257 | -8.0  | 109   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.438 | 0.503 | -14.8 | 109   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.361 | 0.408 | -13.0 | 107   | 0.00     |

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 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 09 03:39:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042523W.M  
 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 : 25% Max. Rel. Area : 150%

|       | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.009 | 0.009 | 0.0   | 97    | -0.01    |
| 50 S  | Toluene-d8                  | 1.158 | 1.192 | -2.9  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.452 | 0.479 | -6.0  | 104   | 0.00     |
| 52 CM | Toluene                     | 0.871 | 0.919 | -5.5# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.458 | 0.560 | -22.3 | 112   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.518 | 0.611 | -18.0 | 109   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.347 | 0.366 | -5.5  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.517 | 0.581 | -12.4 | 108   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.594 | 0.624 | -5.1  | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.259 | 0.247 | 4.6   | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.339 | 0.363 | -7.1  | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.333 | 0.394 | -18.3 | 110   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.358 | 0.389 | -8.7  | 106   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.435 | 0.464 | -6.7  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.383 | 0.396 | -3.4  | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.117 | -3.2  | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.376 | 0.425 | -13.0 | 109   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.873 | 2.003 | -6.9# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.718 | 0.773 | -7.7  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 0.704 | 0.762 | -8.2  | 106   | 0.00     |
| 70 T  | Styrene                     | 1.141 | 1.261 | -10.5 | 106   | 0.00     |
| 71 P  | Bromoform                   | 0.262 | 0.321 | -22.5 | 112   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.655 | 3.962 | -8.4  | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 1.374 | 1.572 | -14.4 | 106   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.134 | 1.196 | -5.5  | 105   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 0.997 | 1.000 | -0.3  | 106   | 0.00     |
| 77 T  | Bromobenzene                | 0.909 | 0.977 | -7.5  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 4.198 | 4.582 | -9.1  | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.623 | 2.750 | -4.8  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.082 | 3.370 | -9.3  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.308 | 0.372 | -20.8 | 112   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.946 | 3.140 | -6.6  | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.092 | 3.455 | -11.7 | 111   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.097 | 3.386 | -9.3  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.793 | 4.098 | -8.0  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.226 | 3.565 | -10.5 | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.727 | 1.863 | -7.9  | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.810 | 1.849 | -2.2  | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.723 | 3.006 | -10.4 | 105   | 0.00     |
| 90 T  | Hexachloroethane            | 0.494 | 0.595 | -20.4 | 110   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.727 | 1.799 | -4.2  | 107   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.227 | 0.268 | -18.1 | 109   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.085 | 1.180 | -8.8  | 108   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.476 | 0.514 | -8.0  | 110   | 0.00     |
| 95 T  | Naphthalene                 | 3.342 | 3.740 | -11.9 | 107   | 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 | 1.093 | 1.167 | -6.8 | 108   | 0.00     |

(#) = Out of Range

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