

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX110822\  
 Data File : VX032642.D  
 Acq On : 08 Nov 2022 10:28  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 09 04:33:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 08:28:06 2022  
 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    | 87    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.577 | 0.553 | 4.2    | 79    | 0.00     |
| 3 P   | Chloromethane               | 0.488 | 0.443 | 9.2    | 77    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.537 | 0.507 | 5.6#   | 79    | 0.00     |
| 5 T   | Bromomethane                | 0.429 | 0.436 | -1.6   | 86    | 0.00     |
| 6 T   | Chloroethane                | 0.360 | 0.450 | -25.0# | 115   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.017 | 1.018 | -0.1   | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.330 | 0.327 | 0.9    | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.537 | 0.544 | -1.3   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.558 | 0.548 | 1.8    | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.101 | 0.081 | 19.8   | 71    | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 0.501 | 0.483 | 3.6#   | 85    | 0.00     |
| 13 T  | Acrolein                    | 0.101 | 0.099 | 2.0    | 89    | 0.00     |
| 14 T  | Allyl chloride              | 0.799 | 0.807 | -1.0   | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 0.274 | 0.251 | 8.4    | 83    | 0.00     |
| 16 T  | Acetone                     | 0.253 | 0.261 | -3.2   | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.194 | 1.063 | 11.0   | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 0.821 | 0.830 | -1.1   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.762 | 1.811 | -2.8   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.579 | 0.553 | 4.5    | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.546 | 0.524 | 4.0    | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.729 | 1.798 | -4.0   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.397 | 1.406 | -0.6   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.994 | 1.010 | -1.6   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 0.391 | 0.372 | 4.9    | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.791 | 0.889 | -12.4  | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.631 | 0.635 | -0.6   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.354 | 0.333 | 5.9    | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.249 | 0.227 | 8.8    | 82    | 0.00     |
| 30 C  | Chloroform                  | 1.091 | 1.142 | -4.7#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 0.842 | 0.831 | 1.3    | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.979 | 1.042 | -6.4   | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.695 | 0.697 | -0.3   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.357 | 0.367 | -2.8   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.497 | 0.505 | -1.6   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.517 | 0.473 | 8.5    | 85    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.551 | 0.588 | -6.7   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.588 | 0.590 | -0.3   | 84    | 0.00     |
| 40 TM | Benzene                     | 1.405 | 1.442 | -2.6   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.263 | 0.271 | -3.0   | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.575 | 0.610 | -6.1   | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.794 | 0.810 | -2.0   | 87    | 0.00     |
| 44 TM | Trichloroethene             | 0.396 | 0.407 | -2.8   | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.361 | 0.379 | -5.0#  | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.277 | 0.284 | -2.5   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.524 | 0.565 | -7.8   | 93    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.410 | 0.406 | 1.0    | 86    | 0.00     |

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 ALS Vial : 2 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                 | 0.008 | 0.007 | 12.5  | 73    | 0.01     |
| 50 S  | Toluene-d8                  | 1.240 | 1.245 | -0.4  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.500 | 0.486 | 2.8   | 84    | 0.00     |
| 52 CM | Toluene                     | 0.917 | 0.958 | -4.5# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.535 | 0.604 | -12.9 | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.572 | 0.634 | -10.8 | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.386 | 0.401 | -3.9  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.556 | 0.592 | -6.5  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.624 | 0.648 | -3.8  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.268 | 0.281 | -4.9  | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.371 | 0.370 | 0.3   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.422 | 0.455 | -7.8  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.409 | 0.429 | -4.9  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.484 | 0.515 | -6.4  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.366 | 0.379 | -3.6  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 1.120 | 1.164 | -3.9  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.422 | 0.459 | -8.8  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.003 | 2.136 | -6.6# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.778 | 0.825 | -6.0  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.756 | 0.812 | -7.4  | 92    | 0.00     |
| 70 T  | Styrene                     | 1.257 | 1.372 | -9.1  | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.333 | 0.361 | -8.4  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.962 | 4.069 | -2.7  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 1.497 | 1.548 | -3.4  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.272 | 1.222 | 3.9   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.112 | 0.982 | 11.7  | 78    | 0.00     |
| 77 T  | Bromobenzene                | 0.971 | 0.976 | -0.5  | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 4.565 | 4.776 | -4.6  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.734 | 2.810 | -2.8  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.386 | 3.569 | -5.4  | 92    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.350 | 0.356 | -1.7  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.199 | 3.346 | -4.6  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.381 | 3.476 | -2.8  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.368 | 3.502 | -4.0  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.068 | 4.269 | -4.9  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.452 | 3.673 | -6.4  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.832 | 1.884 | -2.8  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.901 | 1.934 | -1.7  | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.003 | 3.202 | -6.6  | 91    | 0.00     |
| 90 T  | Hexachloroethane            | 0.564 | 0.604 | -7.1  | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.807 | 1.880 | -4.0  | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.279 | 0.258 | 7.5   | 80    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 1.178 | 1.184 | -0.5  | 92    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.492 | 0.495 | -0.6  | 93    | 0.00     |
| 95 T  | Naphthalene                 | 3.925 | 3.776 | 3.8   | 85    | 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 | 1.197 | 1.176 | 1.8  | 90    | 0.00     |

(#) = Out of Range

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