

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041025\  
 Data File : VX045710.D  
 Acq On : 10 Apr 2025 19:38  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Apr 11 02:03:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 02 03:11:43 2025  
 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.748 | 0.785 | -4.9  | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.768 | 0.749 | 2.5   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.703 | 0.708 | -0.7# | 88    | 0.00     |
| 5 T   | Bromomethane                | 0.333 | 0.297 | 10.8  | 80    | 0.00     |
| 6 T   | Chloroethane                | 0.373 | 0.316 | 15.3  | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.048 | 1.066 | -1.7  | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 0.352 | 0.353 | -0.3  | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.614 | 0.631 | -2.8  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 0.766 | 0.747 | 2.5   | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.123 | 0.133 | -8.1  | 93    | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.600 | 0.598 | 0.3#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 0.169 | 0.172 | -1.8  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 1.139 | 1.147 | -0.7  | 87    | 0.00     |
| 15 T  | Acrylonitrile               | 0.388 | 0.389 | -0.3  | 85    | 0.00     |
| 16 T  | Acetone                     | 0.375 | 0.381 | -1.6  | 90    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.483 | 1.225 | 17.4  | 70    | 0.00     |
| 18 T  | Methyl Acetate              | 0.864 | 0.991 | -14.7 | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.100 | 2.208 | -5.1  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.703 | 0.692 | 1.6   | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.613 | 0.598 | 2.4   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.243 | 2.339 | -4.3  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.938 | 2.056 | -6.1  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.269 | 1.279 | -0.8  | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.550 | 0.567 | -3.1  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.820 | 0.792 | 3.4   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.747 | 0.745 | 0.3   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.613 | 0.617 | -0.7  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.356 | 0.354 | 0.6   | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.306 | 1.356 | -3.8# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 1.122 | 1.108 | 1.2   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.105 | 1.150 | -4.1  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.914 | 0.912 | 0.2   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.355 | 0.354 | 0.3   | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.472 | 1.5   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.604 | 0.595 | 1.5   | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.518 | 0.527 | -1.7  | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.587 | 0.587 | 0.0   | 86    | 0.00     |
| 40 TM | Benzene                     | 1.463 | 1.449 | 1.0   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.318 | 0.346 | -8.8  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.604 | 0.633 | -4.8  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.915 | 0.960 | -4.9  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.337 | 3.2   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.365 | 0.374 | -2.5# | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.280 | 0.287 | -2.5  | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.560 | 0.574 | -2.5  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.472 | 0.509 | -7.8  | 91    | 0.00     |

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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                 | 0.009 | 0.009 | 0.0   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 1.238 | 1.207 | 2.5   | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.606 | 0.637 | -5.1  | 87    | 0.00     |
| 52 CM | Toluene                     | 0.885 | 0.893 | -0.9# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.467 | 0.496 | -6.2  | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.526 | 0.551 | -4.8  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.353 | 0.359 | -1.7  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.546 | 0.593 | -8.6  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.614 | 0.629 | -2.4  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.276 | 0.292 | -5.8  | 89    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.449 | 0.477 | -6.2  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.396 | -2.9  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.357 | 0.372 | -4.2  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.451 | 0.468 | -3.8  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.353 | 0.327 | 7.4   | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.068 | 1.079 | -1.0  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.371 | 0.370 | 0.3   | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.914 | 1.955 | -2.1# | 88    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.696 | 0.716 | -2.9  | 89    | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.701 | -2.2  | 88    | 0.00     |
| 70 T  | Styrene                     | 1.132 | 1.196 | -5.7  | 89    | 0.00     |
| 71 P  | Bromoform                   | 0.277 | 0.275 | 0.7   | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.005 | 3.939 | 1.6   | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 1.916 | 2.032 | -6.1  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.407 | 1.360 | 3.3   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.220 | 1.157 | 5.2   | 89    | 0.00     |
| 77 T  | Bromobenzene                | 0.925 | 0.890 | 3.8   | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 4.613 | 4.574 | 0.8   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.949 | 2.843 | 3.6   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.312 | 3.321 | -0.3  | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.359 | 0.335 | 6.7   | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.288 | 3.268 | 0.6   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.279 | 3.313 | -1.0  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.324 | 3.390 | -2.0  | 91    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.027 | 4.096 | -1.7  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.320 | 3.329 | -0.3  | 89    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.684 | 1.640 | 2.6   | 91    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.708 | 1.632 | 4.4   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.879 | 2.924 | -1.6  | 87    | 0.00     |
| 90 T  | Hexachloroethane            | 0.571 | 0.590 | -3.3  | 93    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.675 | 1.651 | 1.4   | 93    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.294 | 0.312 | -6.1  | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.932 | 0.955 | -2.5  | 95    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.402 | 0.397 | 1.2   | 93    | 0.00     |
| 95 T  | Naphthalene                 | 3.469 | 3.634 | -4.8  | 92    | 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 | 0.976 | 1.006 | -3.1 | 95    | 0.00     |

(#) = Out of Range

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