

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052224\  
 Data File : VN082307.D  
 Acq On : 22 May 2024 21:06  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 23 01:59:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 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     | 0.721 | 0.627 | 13.0   | 74    | 0.00     |
| 3 P   | Chloromethane               | 0.817 | 0.742 | 9.2    | 81    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.768 | 0.706 | 8.1#   | 80    | 0.00     |
| 5 T   | Bromomethane                | 0.441 | 0.362 | 17.9   | 77    | -0.01    |
| 6 T   | Chloroethane                | 0.501 | 0.501 | 0.0    | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.006 | 0.940 | 6.6    | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 0.358 | 0.387 | -8.1   | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.588 | 0.523 | 11.1   | 80    | 0.00     |
| 10 T  | Methyl Iodide               | 0.591 | 0.618 | -4.6   | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.127 | 0.157 | -23.6  | 108   | 0.01     |
| 12 CM | 1,1-Dichloroethene          | 0.546 | 0.510 | 6.6#   | 81    | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.082 | 12.8   | 73    | 0.00     |
| 14 T  | Allyl chloride              | 1.169 | 1.055 | 9.8    | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 0.328 | 0.385 | -17.4  | 101   | 0.00     |
| 16 T  | Acetone                     | 0.324 | 0.360 | -11.1  | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.764 | 1.399 | 20.7   | 73    | 0.00     |
| 18 T  | Methyl Acetate              | 0.807 | 1.001 | -24.0  | 112   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.996 | 2.198 | -10.1  | 94    | 0.00     |
| 20 T  | Methylene Chloride          | 0.653 | 0.645 | 1.2    | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.595 | 0.555 | 6.7    | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.441 | 2.551 | -4.5   | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.925 | 2.103 | -9.2   | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.258 | 1.243 | 1.2    | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 0.491 | 0.577 | -17.5  | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.054 | 0.689 | 34.6#  | 56    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.702 | 0.705 | -0.4   | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 0.586 | 0.587 | -0.2   | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.315 | 0.390 | -23.8  | 105   | 0.00     |
| 30 C  | Chloroform                  | 1.202 | 1.244 | -3.5#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 1.261 | 1.036 | 17.8   | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.066 | 1.056 | 0.9    | 85    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.790 | 0.844 | -6.8   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.328 | -6.5   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.516 | 0.467 | 9.5    | 80    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.577 | 0.667 | -15.6  | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.523 | 0.508 | 2.9    | 85    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.565 | 0.510 | 9.7    | 77    | 0.00     |
| 40 TM | Benzene                     | 1.538 | 1.507 | 2.0    | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.340 | 0.398 | -17.1  | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.592 | 0.618 | -4.4   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.023 | 1.416 | -38.4# | 121   | 0.00     |
| 44 TM | Trichloroethene             | 0.349 | 0.317 | 9.2    | 82    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.397 | 0.399 | -0.5#  | 90    | 0.00     |
| 46 T  | Dibromomethane              | 0.261 | 0.275 | -5.4   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.550 | 0.566 | -2.9   | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.487 | 0.555 | -14.0  | 97    | 0.00     |

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Instrument :  
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 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                 | 0.007 | 0.009 | -28.6# | 114   | 0.00     |
| 50 S  | Toluene-d8                  | 1.179 | 1.178 | 0.1    | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.581 | 0.710 | -22.2  | 103   | 0.00     |
| 52 CM | Toluene                     | 0.923 | 0.918 | 0.5#   | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.569 | 0.567 | 0.4    | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.594 | 1.3    | 84    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.335 | 0.357 | -6.6   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.570 | 0.655 | -14.9  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.627 | 0.656 | -4.6   | 93    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.294 | 0.332 | -12.9  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.426 | 0.537 | -26.1# | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.427 | -15.4  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.345 | 0.370 | -7.2   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.421 | 0.442 | -5.0   | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.305 | 17.8   | 76    | 0.00     |
| 65 PM | Chlorobenzene               | 1.105 | 1.046 | 5.3    | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.364 | 0.383 | -5.2   | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.976 | 1.889 | 4.4#   | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.724 | 0.704 | 2.8    | 83    | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.697 | 0.6    | 85    | 0.00     |
| 70 T  | Styrene                     | 1.165 | 1.212 | -4.0   | 87    | 0.00     |
| 71 P  | Bromoform                   | 0.261 | 0.314 | -20.3  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.972 | 3.733 | 6.0    | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 2.185 | 2.358 | -7.9   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.145 | 1.238 | -8.1   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.052 | 1.037 | 1.4    | 90    | 0.00     |
| 77 T  | Bromobenzene                | 0.947 | 0.896 | 5.4    | 89    | 0.00     |
| 78 T  | n-propylbenzene             | 4.704 | 4.374 | 7.0    | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.954 | 2.696 | 8.7    | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.212 | 3.087 | 3.9    | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.450 | 0.428 | 4.9    | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.888 | 2.676 | 7.3    | 84    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.810 | 2.630 | 6.4    | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.286 | 3.097 | 5.8    | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.895 | 3.671 | 5.8    | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.165 | 3.044 | 3.8    | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.715 | 1.583 | 7.7    | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.750 | 1.577 | 9.9    | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.845 | 2.619 | 7.9    | 79    | 0.00     |
| 90 T  | Hexachloroethane            | 0.586 | 0.563 | 3.9    | 85    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.623 | 1.556 | 4.1    | 87    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.235 | 0.270 | -14.9  | 99    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.910 | 0.825 | 9.3    | 80    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.399 | 0.322 | 19.3   | 76    | 0.00     |
| 95 T  | Naphthalene                 | 2.852 | 3.069 | -7.6   | 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 | 0.911 | 0.840 | 7.8  | 85    | 0.00     |

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