

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100722\  
 Data File : VN074798.D  
 Acq On : 07 Oct 2022 09:04  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 07 09:36:52 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100522W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 06 05:37:50 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   | 83    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 1.025 | 0.956 | 6.7   | 77    | 0.00     |
| 3 P   | Chloromethane               | 1.525 | 1.384 | 9.2   | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 1.888 | 1.985 | -5.1# | 89    | 0.00     |
| 5 T   | Bromomethane                | 1.331 | 1.494 | -12.2 | 91    | 0.00     |
| 6 T   | Chloroethane                | 1.397 | 1.400 | -0.2  | 83    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.488 | 1.414 | 5.0   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 0.776 | 0.682 | 12.1  | 79    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.912 | 0.867 | 4.9   | 83    | 0.00     |
| 10 T  | Methyl Iodide               | 1.102 | 1.077 | 2.3   | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.397 | 0.342 | 13.9  | 78    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.970 | 0.858 | 11.5# | 81    | 0.00     |
| 13 T  | Acrolein                    | 0.112 | 0.106 | 5.4   | 88    | 0.00     |
| 14 T  | Allyl chloride              | 1.994 | 1.854 | 7.0   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 0.865 | 0.849 | 1.8   | 82    | 0.00     |
| 16 T  | Acetone                     | 0.671 | 0.654 | 2.5   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 2.652 | 2.343 | 11.7  | 77    | 0.00     |
| 18 T  | Methyl Acetate              | 2.486 | 2.379 | 4.3   | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 3.775 | 3.676 | 2.6   | 82    | 0.00     |
| 20 T  | Methylene Chloride          | 1.263 | 1.096 | 13.2  | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 1.038 | 0.973 | 6.3   | 83    | 0.00     |
| 22 T  | Diisopropyl ether           | 4.236 | 4.257 | -0.5  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 3.479 | 3.230 | 7.2   | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 2.184 | 2.072 | 5.1   | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 1.218 | 1.189 | 2.4   | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.801 | 1.100 | 38.9# | 54    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 1.236 | 1.199 | 3.0   | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 0.985 | 1.058 | -7.4  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.849 | 0.849 | 0.0   | 84    | 0.00     |
| 30 C  | Chloroform                  | 2.000 | 2.037 | -1.8# | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 2.048 | 1.895 | 7.5   | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.705 | 1.710 | -0.3  | 83    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 1.185 | 1.233 | -4.1  | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.505 | 0.529 | -4.8  | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.818 | 0.827 | -1.1  | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 3.280 | 3.304 | -0.7  | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.771 | 0.792 | -2.7  | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 1.059 | 1.053 | 0.6   | 78    | 0.00     |
| 40 TM | Benzene                     | 2.647 | 2.739 | -3.5  | 84    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.646 | 0.663 | -2.6  | 83    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.831 | 0.880 | -5.9  | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 2.027 | 2.085 | -2.9  | 84    | 0.00     |
| 44 TM | Trichloroethene             | 0.551 | 0.583 | -5.8  | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.717 | 0.724 | -1.0# | 81    | 0.00     |
| 46 T  | Dibromomethane              | 0.421 | 0.444 | -5.5  | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.859 | 0.907 | -5.6  | 85    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.832 | 0.886 | -6.5  | 84    | 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) |
|-------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.018 | 0.018 | 0.0   | 81    | 0.00     |
| 50 S  | Toluene-d8                  | 2.168 | 2.285 | -5.4  | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 1.305 | 1.399 | -7.2  | 85    | 0.00     |
| 52 CM | Toluene                     | 1.590 | 1.729 | -8.7# | 84    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 1.024 | 1.014 | 1.0   | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 1.105 | 1.053 | 4.7   | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.639 | 0.691 | -8.1  | 84    | 0.00     |
| 56 T  | Ethyl methacrylate          | 1.165 | 1.207 | -3.6  | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 1.152 | 1.231 | -6.9  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.420 | 0.448 | -6.7  | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.987 | 1.071 | -8.5  | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.630 | 0.685 | -8.7  | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.650 | 0.668 | -2.8  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.659 | 0.730 | -10.8 | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.406 | 0.391 | 3.7   | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.532 | 1.540 | -0.5  | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.559 | 0.559 | 0.0   | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 2.855 | 2.996 | -4.9# | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 1.072 | 1.159 | -8.1  | 86    | 0.00     |
| 69 T  | o-Xylene                    | 1.100 | 1.141 | -3.7  | 83    | 0.00     |
| 70 T  | Styrene                     | 1.733 | 1.841 | -6.2  | 83    | 0.00     |
| 71 P  | Bromoform                   | 0.427 | 0.454 | -6.3  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.811 | 4.380 | 9.0   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 2.909 | 2.440 | 16.1  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.915 | 1.597 | 16.6  | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.492 | 1.217 | 18.4  | 74    | 0.00     |
| 77 T  | Bromobenzene                | 1.013 | 0.905 | 10.7  | 88    | 0.00     |
| 78 T  | n-propylbenzene             | 5.543 | 5.151 | 7.1   | 84    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.361 | 2.992 | 11.0  | 85    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.837 | 3.663 | 4.5   | 85    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.766 | 0.568 | 25.8# | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.115 | 2.917 | 6.4   | 83    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.316 | 3.143 | 5.2   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.880 | 3.718 | 4.2   | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.819 | 4.702 | 2.4   | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.719 | 3.762 | -1.2  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.908 | 1.790 | 6.2   | 87    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.802 | 1.772 | 1.7   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.278 | 3.267 | 0.3   | 86    | 0.00     |
| 90 T  | Hexachloroethane            | 0.831 | 0.745 | 10.3  | 85    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.838 | 1.811 | 1.5   | 89    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.399 | 0.342 | 14.3  | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.804 | 0.803 | 0.1   | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.376 | 0.368 | 2.1   | 99    | 0.00     |
| 95 T  | Naphthalene                 | 3.475 | 3.402 | 2.1   | 85    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.875 | 0.795 | 9.1  | 88    | 0.00     |

(#) = Out of Range

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