

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020123\  
 Data File : VN076488.D  
 Acq On : 01 Feb 2023 10:20  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 01 23:46:17 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011623W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 17 03:59:22 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   | 125   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.512 | 0.463 | 9.6   | 110   | 0.00     |
| 3 P   | Chloromethane               | 0.531 | 0.573 | -7.9  | 137   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.650 | 0.699 | -7.5# | 135   | 0.00     |
| 5 T   | Bromomethane                | 0.533 | 0.440 | 17.4  | 107   | 0.00     |
| 6 T   | Chloroethane                | 0.488 | 0.424 | 13.1  | 116   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.895 | 0.898 | -0.3  | 128   | 0.00     |
| 8 T   | Diethyl Ether               | 0.300 | 0.314 | -4.7  | 128   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.507 | 0.501 | 1.2   | 126   | 0.00     |
| 10 T  | Methyl Iodide               | 0.774 | 0.765 | 1.2   | 122   | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.075 | 0.075 | 0.0   | 125   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.479 | 0.459 | 4.2#  | 120   | 0.00     |
| 13 T  | Acrolein                    | 0.090 | 0.082 | 8.9   | 116   | 0.00     |
| 14 T  | Allyl chloride              | 0.558 | 0.566 | -1.4  | 129   | 0.00     |
| 15 T  | Acrylonitrile               | 0.213 | 0.206 | 3.3   | 119   | 0.00     |
| 16 T  | Acetone                     | 0.195 | 0.167 | 14.4  | 119   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.192 | 0.962 | 19.3  | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 0.608 | 0.602 | 1.0   | 128   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.559 | 1.673 | -7.3  | 131   | 0.00     |
| 20 T  | Methylene Chloride          | 0.645 | 0.536 | 16.9  | 129   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.519 | 0.494 | 4.8   | 122   | 0.00     |
| 22 T  | Diisopropyl ether           | 1.316 | 1.447 | -10.0 | 134   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.851 | 0.907 | -6.6  | 124   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.877 | 0.906 | -3.3  | 130   | 0.00     |
| 25 T  | 2-Butanone                  | 0.274 | 0.259 | 5.5   | 119   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.739 | 0.703 | 4.9   | 114   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.605 | 0.618 | -2.1  | 129   | 0.00     |
| 28 T  | Bromochloromethane          | 0.356 | 0.367 | -3.1  | 127   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.169 | 0.169 | 0.0   | 119   | 0.00     |
| 30 C  | Chloroform                  | 0.971 | 1.042 | -7.3# | 135   | 0.00     |
| 31 T  | Cyclohexane                 | 0.860 | 0.731 | 15.0  | 116   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.886 | 0.957 | -8.0  | 135   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.560 | 0.602 | -7.5  | 136   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 129   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.313 | 0.318 | -1.6  | 134   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.444 | 0.430 | 3.2   | 124   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.391 | 0.320 | 18.2  | 118   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.496 | 0.508 | -2.4  | 131   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.543 | 0.519 | 4.4   | 117   | 0.00     |
| 40 TM | Benzene                     | 1.329 | 1.310 | 1.4   | 127   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.187 | 0.189 | -1.1  | 128   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.455 | 0.479 | -5.3  | 137   | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.580 | 0.591 | -1.9  | 128   | 0.00     |
| 44 TM | Trichloroethene             | 0.376 | 0.355 | 5.6   | 127   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.318 | 0.324 | -1.9# | 133   | 0.00     |
| 46 T  | Dibromomethane              | 0.240 | 0.238 | 0.8   | 128   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.466 | 0.508 | -9.0  | 138   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.275 | 0.287 | -4.4  | 131   | 0.00     |

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 LabSampleId :  
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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                 | 0.006 | 0.005 | 16.7  | 112   | 0.00     |
| 50 S  | Toluene-d8                  | 1.155 | 1.152 | 0.3   | 128   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.340 | 0.348 | -2.4  | 126   | 0.00     |
| 52 CM | Toluene                     | 0.889 | 0.892 | -0.3# | 130   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.444 | 0.492 | -10.8 | 130   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.511 | 0.533 | -4.3  | 129   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.340 | 0.353 | -3.8  | 138   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.439 | 0.499 | -13.7 | 134   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.552 | 0.568 | -2.9  | 132   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.148 | 0.143 | 3.4   | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.247 | 0.247 | 0.0   | 122   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.358 | 0.410 | -14.5 | 138   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.339 | 0.357 | -5.3  | 132   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.377 | 0.446 | -18.3 | 147   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 130   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.451 | 0.381 | 15.5  | 126   | 0.00     |
| 65 PM | Chlorobenzene               | 1.057 | 1.066 | -0.9  | 134   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.393 | 0.423 | -7.6  | 141   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.809 | 1.927 | -6.5# | 134   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.761 | -5.0  | 133   | 0.00     |
| 69 T  | o-Xylene                    | 0.712 | 0.763 | -7.2  | 134   | 0.00     |
| 70 T  | Styrene                     | 1.137 | 1.269 | -11.6 | 137   | 0.00     |
| 71 P  | Bromoform                   | 0.284 | 0.320 | -12.7 | 137   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 133   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.868 | 3.947 | -2.0  | 138   | 0.00     |
| 74 T  | N-amyl acetate              | 1.113 | 1.133 | -1.8  | 132   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.112 | 1.067 | 4.0   | 134   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.034 | 0.928 | 10.3  | 135   | 0.00     |
| 77 T  | Bromobenzene                | 0.994 | 0.906 | 8.9   | 135   | 0.00     |
| 78 T  | n-propylbenzene             | 4.364 | 4.531 | -3.8  | 138   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.678 | 2.721 | -1.6  | 142   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.240 | 3.474 | -7.2  | 143   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.301 | 0.286 | 5.0   | 119   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.678 | 2.721 | -1.6  | 142   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.882 | 3.025 | -5.0  | 141   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.249 | 3.483 | -7.2  | 143   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.999 | 4.334 | -8.4  | 142   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.289 | 3.694 | -12.3 | 143   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.823 | 1.783 | 2.2   | 138   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.842 | 1.750 | 5.0   | 137   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.611 | 2.854 | -9.3  | 135   | 0.00     |
| 90 T  | Hexachloroethane            | 0.568 | 0.616 | -8.5  | 140   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.816 | 1.740 | 4.2   | 135   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.193 | 0.184 | 4.7   | 118   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.870 | 0.802 | 7.8   | 122   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.482 | 0.420 | 12.9  | 118   | 0.00     |
| 95 T  | Naphthalene                 | 2.543 | 2.285 | 10.1  | 120   | 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 | 0.823 | 0.772 | 6.2  | 123   | 0.00     |

(#) = Out of Range

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