

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101521\  
 Data File : VN068965.D  
 Acq On : 15 Oct 2021 21:49  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 18 02:18:45 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 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    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.546 | 0.566 | -3.7   | 66    | 0.00     |
| 3 P   | Chloromethane               | 0.611 | 0.641 | -4.9   | 69    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.621 | 0.753 | -21.3# | 78    | 0.00     |
| 5 T   | Bromomethane                | 0.341 | 0.448 | -31.4# | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.366 | 0.461 | -26.0# | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.869 | 0.927 | -6.7   | 70    | 0.00     |
| 8 T   | Diethyl Ether               | 0.324 | 0.339 | -4.6   | 69    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.467 | 0.505 | -8.1   | 71    | 0.00     |
| 10 T  | Methyl Iodide               | 0.678 | 0.653 | 3.7    | 63    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.120 | 0.116 | 3.3    | 67    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.483 | 0.490 | -1.4#  | 70    | 0.00     |
| 13 T  | Acrolein                    | 0.053 | 0.045 | 15.1   | 65    | 0.00     |
| 14 T  | Allyl chloride              | 0.866 | 0.868 | -0.2   | 65    | 0.00     |
| 15 T  | Acrylonitrile               | 0.270 | 0.287 | -6.3   | 69    | 0.00     |
| 16 T  | Acetone                     | 0.246 | 0.226 | 8.1    | 60    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.311 | 1.305 | 0.5    | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 0.933 | 1.005 | -7.7   | 71    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.799 | 1.932 | -7.4   | 69    | 0.00     |
| 20 T  | Methylene Chloride          | 0.566 | 0.590 | -4.2   | 71    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.522 | 0.534 | -2.3   | 68    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.801 | 1.985 | -10.2  | 70    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.362 | 1.472 | -8.1   | 68    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.979 | 1.055 | -7.8   | 71    | 0.00     |
| 25 T  | 2-Butanone                  | 0.372 | 0.392 | -5.4   | 67    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.933 | 0.796 | 14.7   | 56    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.631 | 0.659 | -4.4   | 70    | 0.00     |
| 28 T  | Bromochloromethane          | 0.443 | 0.491 | -10.8  | 77    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.241 | 0.268 | -11.2  | 70    | 0.00     |
| 30 C  | Chloroform                  | 1.031 | 1.142 | -10.8# | 72    | 0.00     |
| 31 T  | Cyclohexane                 | 1.025 | 0.999 | 2.5    | 68    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.961 | 1.041 | -8.3   | 71    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.659 | 0.711 | -7.9   | 81    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 73    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.291 | 0.305 | -4.8   | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.427 | 0.464 | -8.7   | 72    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.441 | 0.471 | -6.8   | 70    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.469 | 0.496 | -5.8   | 70    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.550 | 0.569 | -3.5   | 68    | 0.00     |
| 40 TM | Benzene                     | 1.300 | 1.401 | -7.8   | 71    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.222 | 0.229 | -3.2   | 67    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.461 | 0.506 | -9.8   | 72    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.778 | 0.864 | -11.1  | 72    | 0.00     |
| 44 TM | Trichloroethene             | 0.325 | 0.342 | -5.2   | 70    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.337 | 0.367 | -8.9#  | 72    | 0.00     |
| 46 T  | Dibromomethane              | 0.230 | 0.250 | -8.7   | 73    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.477 | 0.518 | -8.6   | 71    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.366 | 0.387 | -5.7   | 69    | 0.00     |

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 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 18 02:18:45 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N101221W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 13 05:44:40 2021  
 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) |
|-------|-----------------------------|-------|-------|--------|-------|----------|
| 49 T  | 1,4-Dioxane                 | 0.006 | 0.007 | -16.7  | 72    | 0.00     |
| 50 S  | Toluene-d8                  | 1.164 | 1.270 | -9.1   | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.451 | 0.500 | -10.9  | 72    | 0.00     |
| 52 CM | Toluene                     | 0.837 | 0.936 | -11.8# | 72    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.541 | 0.569 | -5.2   | 69    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.563 | 0.592 | -5.2   | 69    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.330 | 0.364 | -10.3  | 74    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.554 | 0.613 | -10.6  | 73    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.544 | 0.616 | -13.2  | 73    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.134 | 0.163 | -21.6  | 80    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.324 | 0.366 | -13.0  | 73    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.372 | 0.399 | -7.3   | 71    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.338 | 0.380 | -12.4  | 72    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.439 | 0.498 | -13.4  | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 74    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.322 | 0.317 | 1.6    | 66    | 0.00     |
| 65 PM | Chlorobenzene               | 0.946 | 1.040 | -9.9   | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.370 | 0.397 | -7.3   | 72    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.758 | 1.970 | -12.1# | 74    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.666 | 0.744 | -11.7  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 0.667 | 0.743 | -11.4  | 74    | 0.00     |
| 70 T  | Styrene                     | 1.086 | 1.240 | -14.2  | 75    | 0.00     |
| 71 P  | Bromoform                   | 0.297 | 0.310 | -4.4   | 69    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 77    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.162 | 4.361 | -4.8   | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 1.577 | 1.721 | -9.1   | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.203 | 1.328 | -10.4  | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.064 | 1.095 | -2.9   | 69    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.955 | -3.8   | 74    | 0.00     |
| 78 T  | n-propylbenzene             | 4.677 | 4.983 | -6.5   | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.883 | 3.072 | -6.6   | 76    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.466 | 3.645 | -5.2   | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.445 | 0.420 | 5.6    | 69    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.786 | 3.034 | -8.9   | 77    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.018 | 3.118 | -3.3   | 74    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.340 | 3.573 | -7.0   | 76    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.179 | 4.445 | -6.4   | 75    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.352 | 3.567 | -6.4   | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.592 | 1.701 | -6.8   | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.580 | 1.656 | -4.8   | 74    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.791 | 2.945 | -5.5   | 73    | 0.00     |
| 90 T  | Hexachloroethane            | 0.704 | 0.729 | -3.6   | 74    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.546 | 1.645 | -6.4   | 74    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.232 | 0.239 | -3.0   | 71    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.686 | 0.716 | -4.4   | 68    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.440 | 0.377 | 14.3   | 60    | 0.00     |
| 95 T  | Naphthalene                 | 1.793 | 2.040 | -13.8  | 72    | 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 | 0.650 | 0.701 | -7.8 | 70    | 0.00     |

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