

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010923\  
 Data File : VN076145.D  
 Acq On : 09 Jan 2023 10:32  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 10 01:01:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121422W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 14 13:03:41 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    | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.355 | 0.494 | -39.2# | 134   | 0.00     |
| 3 P   | Chloromethane               | 0.441 | 0.503 | -14.1  | 115   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.527 | 0.613 | -16.3# | 113   | 0.00     |
| 5 T   | Bromomethane                | 0.448 | 0.456 | -1.8   | 98    | 0.00     |
| 6 T   | Chloroethane                | 0.390 | 0.436 | -11.8  | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.799 | 0.838 | -4.9   | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 0.292 | 0.304 | -4.1   | 96    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.456 | 0.491 | -7.7   | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 0.740 | 0.741 | -0.1   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.077 | 0.067 | 13.0   | 82    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.443 | 0.460 | -3.8#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.086 | 8.5    | 85    | 0.00     |
| 14 T  | Allyl chloride              | 0.518 | 0.573 | -10.6  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 0.210 | 0.217 | -3.3   | 98    | 0.00     |
| 16 T  | Acetone                     | 0.188 | 0.222 | -18.1  | 121   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.073 | 1.163 | -8.4   | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 0.554 | 0.597 | -7.8   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.459 | 1.617 | -10.8  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 0.577 | 0.528 | 8.5    | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.485 | 0.496 | -2.3   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.258 | 1.396 | -11.0  | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 0.847 | 0.913 | -7.8   | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 0.839 | 0.879 | -4.8   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 0.263 | 0.289 | -9.9   | 103   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.711 | 0.787 | -10.7  | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.580 | 0.608 | -4.8   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 0.368 | 0.341 | 7.3    | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.165 | 0.176 | -6.7   | 98    | 0.00     |
| 30 C  | Chloroform                  | 0.945 | 0.965 | -2.1#  | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 0.779 | 0.792 | -1.7   | 103   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 0.838 | 0.890 | -6.2   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.544 | 0.573 | -5.3   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.310 | 0.321 | -3.5   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.411 | 0.443 | -7.8   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.330 | 0.356 | -7.9   | 101   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.460 | 0.508 | -10.4  | 100   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.496 | 0.557 | -12.3  | 97    | 0.00     |
| 40 TM | Benzene                     | 1.269 | 1.315 | -3.6   | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.172 | 0.191 | -11.0  | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.422 | 0.447 | -5.9   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.545 | 0.595 | -9.2   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 0.358 | 0.360 | -0.6   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.309 | 0.322 | -4.2#  | 97    | 0.00     |
| 46 T  | Dibromomethane              | 0.229 | 0.239 | -4.4   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.449 | 0.501 | -11.6  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.245 | 0.279 | -13.9  | 98    | 0.00     |

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Instrument :  
 MSVOA\_N  
 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                 | 0.006 | 0.006 | 0.0   | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 1.158 | 1.181 | -2.0  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.330 | 0.364 | -10.3 | 97    | 0.00     |
| 52 CM | Toluene                     | 0.827 | 0.882 | -6.7# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.440 | 0.512 | -16.4 | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.483 | 0.555 | -14.9 | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.324 | 0.341 | -5.2  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.431 | 0.471 | -9.3  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.532 | 0.562 | -5.6  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.137 | 0.131 | 4.4   | 83    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.240 | 0.268 | -11.7 | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.361 | 0.408 | -13.0 | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.328 | 0.349 | -6.4  | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.383 | 0.416 | -8.6  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.352 | 0.383 | -8.8  | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.026 | 1.023 | 0.3   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.380 | 0.394 | -3.7  | 96    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.732 | 1.842 | -6.4# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.686 | 0.740 | -7.9  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 0.678 | 0.725 | -6.9  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.079 | 1.199 | -11.1 | 96    | 0.00     |
| 71 P  | Bromoform                   | 0.277 | 0.333 | -20.2 | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.613 | 3.835 | -6.1  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 1.060 | 1.134 | -7.0  | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.117 | 1.058 | 5.3   | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.008 | 0.802 | 20.4  | 74    | 0.00     |
| 77 T  | Bromobenzene                | 0.914 | 0.920 | -0.7  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 3.985 | 4.432 | -11.2 | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.488 | 2.560 | -2.9  | 95    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.024 | 3.270 | -8.1  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.280 | 0.331 | -18.2 | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.488 | 2.560 | -2.9  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.666 | 2.960 | -11.0 | 98    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.000 | 3.269 | -9.0  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.680 | 4.115 | -11.8 | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.062 | 3.539 | -15.6 | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.689 | 1.734 | -2.7  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.726 | 1.711 | 0.9   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.481 | 2.876 | -15.9 | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 0.548 | 0.661 | -20.6 | 103   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.664 | 1.662 | 0.1   | 92    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.198 | 0.186 | 6.1   | 90    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.824 | 0.856 | -3.9  | 89    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.449 | 0.467 | -4.0  | 92    | 0.00     |
| 95 T  | Naphthalene                 | 2.277 | 2.448 | -7.5  | 88    | 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 | 0.770 | 0.817 | -6.1 | 88    | 0.00     |

(#) = Out of Range

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