

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN021924\  
 Data File : VN081066.D  
 Acq On : 19 Feb 2024 10:14  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 20 00:17:54 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 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   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.647 | 0.633 | 2.2   | 93    | 0.00     |
| 3 P   | Chloromethane               | 0.833 | 0.603 | 27.6# | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.718 | 0.651 | 9.3#  | 94    | 0.00     |
| 5 T   | Bromomethane                | 0.510 | 0.448 | 12.2  | 93    | 0.00     |
| 6 T   | Chloroethane                | 0.556 | 0.414 | 25.5# | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.049 | 0.960 | 8.5   | 94    | 0.00     |
| 8 T   | Diethyl Ether               | 0.384 | 0.348 | 9.4   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.585 | 0.544 | 7.0   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 0.653 | 0.662 | -1.4  | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.113 | 0.100 | 11.5  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.565 | 0.522 | 7.6#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 0.060 | 0.069 | -15.0 | 127   | 0.00     |
| 14 T  | Allyl chloride              | 0.839 | 0.752 | 10.4  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 0.294 | 0.249 | 15.3  | 89    | 0.00     |
| 16 T  | Acetone                     | 0.241 | 0.192 | 20.3  | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.577 | 1.392 | 11.7  | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 0.588 | 0.529 | 10.0  | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.937 | 1.758 | 9.2   | 92    | 0.00     |
| 20 T  | Methylene Chloride          | 0.693 | 0.563 | 18.8  | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.631 | 0.564 | 10.6  | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.903 | 1.755 | 7.8   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.544 | 1.395 | 9.7   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.100 | 1.027 | 6.6   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.390 | 0.315 | 19.2  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.031 | 0.981 | 4.8   | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.733 | 0.648 | 11.6  | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 0.456 | 0.443 | 2.9   | 101   | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.260 | 0.205 | 21.2  | 85    | 0.00     |
| 30 C  | Chloroform                  | 1.170 | 1.062 | 9.2#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 1.058 | 0.905 | 14.5  | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.065 | 0.977 | 8.3   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.613 | 0.572 | 6.7   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.283 | 0.278 | 1.8   | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.484 | 0.449 | 7.2   | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.437 | 0.371 | 15.1  | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.490 | 0.479 | 2.2   | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.565 | 0.539 | 4.6   | 94    | 0.00     |
| 40 TM | Benzene                     | 1.402 | 1.309 | 6.6   | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.249 | 0.202 | 18.9  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.489 | 0.453 | 7.4   | 94    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.765 | 0.674 | 11.9  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 0.373 | 0.343 | 8.0   | 96    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.351 | 0.330 | 6.0#  | 95    | 0.00     |
| 46 T  | Dibromomethane              | 0.256 | 0.228 | 10.9  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.484 | 0.471 | 2.7   | 94    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.356 | 0.311 | 12.6  | 90    | 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                 | 0.008 | 0.005 | 37.5# | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 1.004 | 0.959 | 4.5   | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.440 | 0.376 | 14.5  | 85    | 0.00     |
| 52 CM | Toluene                     | 0.888 | 0.824 | 7.2#  | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.538 | 0.523 | 2.8   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.581 | 0.564 | 2.9   | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.341 | 0.314 | 7.9   | 89    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.522 | 0.484 | 7.3   | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.590 | 0.544 | 7.8   | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.262 | 0.240 | 8.4   | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.349 | 0.278 | 20.3  | 75    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.363 | 0.334 | 8.0   | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.359 | 0.324 | 9.7   | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.377 | 0.358 | 5.0   | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.341 | 0.332 | 2.6   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 1.082 | 1.002 | 7.4   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.389 | 0.369 | 5.1   | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.936 | 1.854 | 4.2#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.742 | 0.713 | 3.9   | 91    | 0.00     |
| 69 T  | o-Xylene                    | 0.736 | 0.691 | 6.1   | 89    | 0.00     |
| 70 T  | Styrene                     | 1.166 | 1.139 | 2.3   | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.247 | 0.251 | -1.6  | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 4.375 | 3.783 | 13.5  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 1.849 | 1.482 | 19.8  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.230 | 1.029 | 16.3  | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.136 | 0.881 | 22.4  | 87    | 0.00     |
| 77 T  | Bromobenzene                | 0.975 | 0.826 | 15.3  | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 5.036 | 4.495 | 10.7  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.089 | 2.619 | 15.2  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.547 | 3.167 | 10.7  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.441 | 0.364 | 17.5  | 85    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.020 | 2.639 | 12.6  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.067 | 2.735 | 10.8  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.534 | 3.146 | 11.0  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 4.264 | 3.837 | 10.0  | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.542 | 3.271 | 7.7   | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.843 | 1.645 | 10.7  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.811 | 1.663 | 8.2   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 3.085 | 2.899 | 6.0   | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 0.585 | 0.568 | 2.9   | 95    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.778 | 1.585 | 10.9  | 96    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.256 | 0.207 | 19.1  | 87    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.992 | 0.936 | 5.6   | 97    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.370 | 0.353 | 4.6   | 100   | 0.00     |
| 95 T  | Naphthalene                 | 3.634 | 3.111 | 14.4  | 90    | 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 | 0.984 | 0.894 | 9.1  | 94    | 0.00     |

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