

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071323\  
 Data File : VN078488.D  
 Acq On : 13 Jul 2023 10:33  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 14 01:28:22 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.613 | 0.549 | 10.4  | 85    | 0.00     |
| 3 P   | Chloromethane               | 0.666 | 0.654 | 1.8   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.862 | 0.838 | 2.8#  | 93    | 0.00     |
| 5 T   | Bromomethane                | 0.616 | 0.551 | 10.6  | 88    | 0.00     |
| 6 T   | Chloroethane                | 0.583 | 0.554 | 5.0   | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.030 | 0.988 | 4.1   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 0.343 | 0.329 | 4.1   | 86    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.545 | 0.540 | 0.9   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 0.749 | 0.747 | 0.3   | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.103 | 0.103 | 0.0   | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.528 | 0.518 | 1.9#  | 90    | 0.00     |
| 13 T  | Acrolein                    | 0.102 | 0.095 | 6.9   | 83    | 0.00     |
| 14 T  | Allyl chloride              | 0.721 | 0.645 | 10.5  | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.261 | 0.264 | -1.1  | 91    | 0.00     |
| 16 T  | Acetone                     | 0.209 | 0.220 | -5.3  | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.526 | 1.357 | 11.1  | 85    | 0.00     |
| 18 T  | Methyl Acetate              | 0.884 | 0.870 | 1.6   | 91    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.738 | 1.721 | 1.0   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 0.674 | 0.622 | 7.7   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.595 | 0.585 | 1.7   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 1.614 | 1.680 | -4.1  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.026 | 1.056 | -2.9  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.088 | 1.069 | 1.7   | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 0.329 | 0.348 | -5.8  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.890 | 0.905 | -1.7  | 93    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.688 | 0.674 | 2.0   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 0.512 | 0.521 | -1.8  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.216 | 0.222 | -2.8  | 91    | 0.00     |
| 30 C  | Chloroform                  | 1.132 | 1.175 | -3.8# | 93    | 0.00     |
| 31 T  | Cyclohexane                 | 0.906 | 0.853 | 5.8   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.015 | 1.037 | -2.2  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.670 | 0.681 | -1.6  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.339 | 0.366 | -8.0  | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.490 | 0.512 | -4.5  | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.409 | 0.403 | 1.5   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.533 | 0.551 | -3.4  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.447 | 0.475 | -6.3  | 91    | 0.00     |
| 40 TM | Benzene                     | 1.452 | 1.517 | -4.5  | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.208 | 0.211 | -1.4  | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.494 | 0.512 | -3.6  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.673 | 0.719 | -6.8  | 91    | 0.00     |
| 44 TM | Trichloroethene             | 0.391 | 0.392 | -0.3  | 90    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.368 | 0.389 | -5.7# | 93    | 0.00     |
| 46 T  | Dibromomethane              | 0.259 | 0.279 | -7.7  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.519 | 0.553 | -6.6  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.312 | 0.329 | -5.4  | 88    | 0.00     |

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Instrument :  
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 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                 | 0.007 | 0.007 | 0.0   | 91    | 0.00     |
| 50 S  | Toluene-d8                  | 1.282 | 1.359 | -6.0  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.400 | 0.441 | -10.2 | 92    | 0.00     |
| 52 CM | Toluene                     | 0.900 | 0.973 | -8.1# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.532 | 0.581 | -9.2  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.567 | 0.630 | -11.1 | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.355 | 0.376 | -5.9  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.496 | 0.562 | -13.3 | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.603 | 0.636 | -5.5  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.177 | 0.196 | -10.7 | 91    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.284 | 0.314 | -10.6 | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.391 | 0.430 | -10.0 | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.365 | 0.383 | -4.9  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.395 | 0.430 | -8.9  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.376 | 0.401 | -6.6  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 1.118 | 1.144 | -2.3  | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.430 | 0.449 | -4.4  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.889 | 2.062 | -9.2# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.698 | 0.785 | -12.5 | 92    | 0.00     |
| 69 T  | o-Xylene                    | 0.705 | 0.756 | -7.2  | 91    | 0.00     |
| 70 T  | Styrene                     | 1.104 | 1.250 | -13.2 | 93    | 0.00     |
| 71 P  | Bromoform                   | 0.291 | 0.315 | -8.2  | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 4.698 | 4.487 | 4.5   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 1.619 | 1.483 | 8.4   | 86    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.586 | 1.413 | 10.9  | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.209 | 1.157 | 4.3   | 92    | 0.00     |
| 77 T  | Bromobenzene                | 1.154 | 1.066 | 7.6   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 5.024 | 5.067 | -0.9  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 3.291 | 3.169 | 3.7   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.712 | 3.645 | 1.8   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.460 | 0.445 | 3.3   | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 3.070 | 3.021 | 1.6   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 3.152 | 3.024 | 4.1   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.606 | 3.586 | 0.6   | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.984 | 3.907 | 1.9   | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.199 | 3.222 | -0.7  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.804 | 1.823 | -1.1  | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.817 | 1.772 | 2.5   | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.289 | 2.350 | -2.7  | 90    | 0.00     |
| 90 T  | Hexachloroethane            | 0.676 | 0.618 | 8.6   | 94    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.795 | 1.752 | 2.4   | 90    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.262 | 0.226 | 13.7  | 88    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.573 | 0.574 | -0.2  | 83    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.375 | 0.309 | 17.6  | 85    | 0.00     |
| 95 T  | Naphthalene                 | 1.958 | 1.684 | 14.0  | 75    | 0.00     |

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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) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.659 | 0.610 | 7.4  | 82    | 0.00     |

(#) = Out of Range

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