

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100324\  
 Data File : VN084305.D  
 Acq On : 03 Oct 2024 17:51  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 04 01:39:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N093024W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 01 07:11:01 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   | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.591 | 0.567 | 4.1   | 84    | 0.00     |
| 3 P   | Chloromethane               | 0.675 | 0.637 | 5.6   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.654 | 0.632 | 3.4#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 0.431 | 0.393 | 8.8   | 82    | 0.00     |
| 6 T   | Chloroethane                | 0.468 | 0.408 | 12.8  | 88    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.019 | 1.025 | -0.6  | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 0.378 | 0.364 | 3.7   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.584 | 0.583 | 0.2   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 0.752 | 0.741 | 1.5   | 83    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.122 | 0.117 | 4.1   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.563 | 0.560 | 0.5#  | 86    | 0.00     |
| 13 T  | Acrolein                    | 0.140 | 0.158 | -12.9 | 100   | 0.00     |
| 14 T  | Allyl chloride              | 0.978 | 0.913 | 6.6   | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 0.309 | 0.326 | -5.5  | 93    | 0.00     |
| 16 T  | Acetone                     | 0.318 | 0.299 | 6.0   | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.782 | 1.558 | 12.6  | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 0.694 | 0.748 | -7.8  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.900 | 1.963 | -3.3  | 87    | 0.00     |
| 20 T  | Methylene Chloride          | 0.647 | 0.642 | 0.8   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.590 | 0.594 | -0.7  | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.022 | 2.149 | -6.3  | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.500 | 1.607 | -7.1  | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.131 | 1.175 | -3.9  | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 0.434 | 0.444 | -2.3  | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.020 | 1.004 | 1.6   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.713 | 0.730 | -2.4  | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 0.505 | 0.471 | 6.7   | 86    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.268 | 0.288 | -7.5  | 92    | 0.00     |
| 30 C  | Chloroform                  | 1.175 | 1.211 | -3.1# | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 1.098 | 0.996 | 9.3   | 84    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.055 | 1.074 | -1.8  | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.741 | 0.764 | -3.1  | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.330 | 0.348 | -5.5  | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.479 | 0.476 | 0.6   | 84    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.491 | 0.503 | -2.4  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.525 | 0.536 | -2.1  | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.533 | 0.530 | 0.6   | 82    | 0.00     |
| 40 TM | Benzene                     | 1.492 | 1.537 | -3.0  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.267 | 0.282 | -5.6  | 89    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.506 | 0.533 | -5.3  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 0.962 | 0.973 | -1.1  | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.346 | 0.6   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.353 | 0.383 | -8.5# | 92    | 0.00     |
| 46 T  | Dibromomethane              | 0.238 | 0.263 | -10.5 | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.529 | 0.567 | -7.2  | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.383 | 0.404 | -5.5  | 87    | 0.00     |

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 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 | 0.008 | -14.3 | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 1.213 | 1.308 | -7.8  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.468 | 0.526 | -12.4 | 93    | 0.00     |
| 52 CM | Toluene                     | 0.910 | 0.956 | -5.1# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.539 | 0.572 | -6.1  | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.580 | 0.612 | -5.5  | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.326 | 0.356 | -9.2  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.537 | 0.592 | -10.2 | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.583 | 0.615 | -5.5  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.249 | 0.267 | -7.2  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.349 | 0.387 | -10.9 | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.385 | 0.421 | -9.4  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.339 | 0.357 | -5.3  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.442 | 0.462 | -4.5  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.348 | 0.330 | 5.2   | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 1.109 | 1.110 | -0.1  | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.395 | -3.4  | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.961 | 2.025 | -3.3# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.725 | 0.756 | -4.3  | 87    | 0.00     |
| 69 T  | o-Xylene                    | 0.686 | 0.735 | -7.1  | 88    | 0.00     |
| 70 T  | Styrene                     | 1.162 | 1.275 | -9.7  | 90    | 0.00     |
| 71 P  | Bromoform                   | 0.281 | 0.314 | -11.7 | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.815 | 3.761 | 1.4   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 1.728 | 1.735 | -0.4  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.147 | 1.179 | -2.8  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.021 | 0.993 | 2.7   | 84    | 0.00     |
| 77 T  | Bromobenzene                | 0.920 | 0.899 | 2.3   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 4.421 | 4.507 | -1.9  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.821 | 2.779 | 1.5   | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.112 | 3.244 | -4.2  | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.426 | 0.425 | 0.2   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.840 | 2.812 | 1.0   | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.766 | 2.762 | 0.1   | 87    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.135 | 3.258 | -3.9  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.691 | 3.828 | -3.7  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.052 | 3.181 | -4.2  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.727 | 1.669 | 3.4   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.744 | 1.681 | 3.6   | 90    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.768 | 2.745 | 0.8   | 85    | 0.00     |
| 90 T  | Hexachloroethane            | 0.620 | 0.596 | 3.9   | 89    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.693 | 1.635 | 3.4   | 91    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.237 | 0.225 | 5.1   | 91    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.834 | 0.793 | 4.9   | 81    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.416 | 0.358 | 13.9  | 86    | 0.00     |
| 95 T  | Naphthalene                 | 2.764 | 2.587 | 6.4   | 80    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound               | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|------------------------|-------|-------|------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 0.835 | 0.782 | 6.3  | 83    | 0.00     |

(#) = Out of Range

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