

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052024\  
 Data File : VN082200.D  
 Acq On : 20 May 2024 11:02  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 21 03:43:08 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 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  | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.721 | 0.679 | 5.8  | 90    | 0.00     |
| 3 P   | Chloromethane               | 0.817 | 0.716 | 12.4 | 89    | 0.00     |
| 4 C   | Vinyl Chloride              | 0.768 | 0.698 | 9.1# | 90    | 0.00     |
| 5 T   | Bromomethane                | 0.441 | 0.351 | 20.4 | 84    | 0.00     |
| 6 T   | Chloroethane                | 0.501 | 0.455 | 9.2  | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.006 | 0.952 | 5.4  | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 0.358 | 0.346 | 3.4  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.588 | 0.557 | 5.3  | 96    | 0.00     |
| 10 T  | Methyl Iodide               | 0.591 | 0.552 | 6.6  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.127 | 0.110 | 13.4 | 85    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.546 | 0.506 | 7.3# | 91    | 0.00     |
| 13 T  | Acrolein                    | 0.094 | 0.076 | 19.1 | 76    | 0.00     |
| 14 T  | Allyl chloride              | 1.169 | 1.036 | 11.4 | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 0.328 | 0.307 | 6.4  | 90    | 0.00     |
| 16 T  | Acetone                     | 0.324 | 0.274 | 15.4 | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.764 | 1.552 | 12.0 | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 0.807 | 0.725 | 10.2 | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 1.996 | 1.926 | 3.5  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 0.653 | 0.596 | 8.7  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.595 | 0.559 | 6.1  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 2.441 | 2.350 | 3.7  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 1.925 | 1.860 | 3.4  | 90    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.258 | 1.197 | 4.8  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 0.491 | 0.445 | 9.4  | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.054 | 0.999 | 5.2  | 92    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.702 | 0.669 | 4.7  | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 0.586 | 0.532 | 9.2  | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.315 | 0.300 | 4.8  | 91    | 0.00     |
| 30 C  | Chloroform                  | 1.202 | 1.162 | 3.3# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 1.261 | 1.077 | 14.6 | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.066 | 1.035 | 2.9  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.790 | 0.751 | 4.9  | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.308 | 0.313 | -1.6 | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.516 | 0.501 | 2.9  | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 0.577 | 0.563 | 2.4  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.523 | 0.527 | -0.8 | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 0.565 | 0.572 | -1.2 | 94    | 0.00     |
| 40 TM | Benzene                     | 1.538 | 1.524 | 0.9  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 0.340 | 0.306 | 10.0 | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.592 | 0.576 | 2.7  | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.023 | 1.050 | -2.6 | 98    | 0.00     |
| 44 TM | Trichloroethene             | 0.349 | 0.337 | 3.4  | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.397 | 0.391 | 1.5# | 96    | 0.00     |
| 46 T  | Dibromomethane              | 0.261 | 0.254 | 2.7  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 0.550 | 0.566 | -2.9 | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 0.487 | 0.476 | 2.3  | 91    | 0.00     |

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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 | 0.006 | 14.3  | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 1.179 | 1.191 | -1.0  | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.581 | 0.582 | -0.2  | 92    | 0.00     |
| 52 CM | Toluene                     | 0.923 | 0.947 | -2.6# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.569 | 0.591 | -3.9  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.602 | 0.612 | -1.7  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.335 | 0.335 | 0.0   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.570 | 0.594 | -4.2  | 92    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.627 | 0.617 | 1.6   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.294 | 0.303 | -3.1  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 0.426 | 0.426 | 0.0   | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 0.370 | 0.399 | -7.8  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.345 | 0.340 | 1.4   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.421 | 0.434 | -3.1  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.371 | 0.374 | -0.8  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 1.105 | 1.066 | 3.5   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.364 | 0.370 | -1.6  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 1.976 | 1.976 | 0.0   | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.724 | 0.735 | -1.5  | 95    | 0.00     |
| 69 T  | o-Xylene                    | 0.701 | 0.709 | -1.1  | 95    | 0.00     |
| 70 T  | Styrene                     | 1.165 | 1.227 | -5.3  | 97    | 0.00     |
| 71 P  | Bromoform                   | 0.261 | 0.284 | -8.8  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.972 | 3.902 | 1.8   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 2.185 | 2.033 | 7.0   | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.145 | 1.052 | 8.1   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.052 | 0.999 | 5.0   | 94    | 0.00     |
| 77 T  | Bromobenzene                | 0.947 | 0.894 | 5.6   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 4.704 | 4.694 | 0.2   | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.954 | 2.808 | 4.9   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.212 | 3.284 | -2.2  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.450 | 0.478 | -6.2  | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.888 | 2.830 | 2.0   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.810 | 2.758 | 1.9   | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.286 | 3.280 | 0.2   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.895 | 3.950 | -1.4  | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.165 | 3.292 | -4.0  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.715 | 1.685 | 1.7   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.750 | 1.672 | 4.5   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 2.845 | 2.892 | -1.7  | 95    | 0.00     |
| 90 T  | Hexachloroethane            | 0.586 | 0.600 | -2.4  | 98    | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.623 | 1.600 | 1.4   | 98    | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.235 | 0.231 | 1.7   | 93    | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.910 | 0.909 | 0.1   | 96    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.399 | 0.376 | 5.8   | 96    | 0.00     |
| 95 T  | Naphthalene                 | 2.852 | 2.866 | -0.5  | 93    | 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 | 0.911 | 0.896 | 1.6  | 98    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 5