

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072125\  
 Data File : VN087387.D  
 Acq On : 21 Jul 2025 17:50  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 22 03:12:03 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071625W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 17 02:56:13 2025  
 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    | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.531 | 0.676 | -27.3# | 114   | 0.00     |
| 3 P   | Chloromethane               | 0.668 | 0.694 | -3.9   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.664 | 0.738 | -11.1# | 106   | 0.00     |
| 5 T   | Bromomethane                | 0.344 | 0.255 | 25.9#  | 75    | 0.00     |
| 6 T   | Chloroethane                | 0.433 | 0.454 | -4.8   | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 0.981 | 1.100 | -12.1  | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 0.381 | 0.382 | -0.3   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.504 | 0.576 | -14.3  | 115   | 0.00     |
| 10 T  | Methyl Iodide               | 0.452 | 0.412 | 8.8    | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.161 | 0.158 | 1.9    | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.571 | 0.571 | 0.0    | 110   | 0.00     |
| 13 T  | Acrolein                    | 0.129 | 0.091 | 29.5#  | 79    | 0.00     |
| 14 T  | Allyl chloride              | 1.033 | 1.018 | 1.5    | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 0.437 | 0.438 | -0.2   | 101   | 0.00     |
| 16 T  | Acetone                     | 0.398 | 0.375 | 5.8    | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 1.693 | 1.783 | -5.3   | 108   | 0.00     |
| 18 T  | Methyl Acetate              | 0.999 | 1.030 | -3.1   | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.104 | 2.183 | -3.8   | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 0.766 | 0.678 | 11.5   | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.644 | 0.646 | -0.3   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.167 | 2.336 | -7.8   | 107   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.895 | 2.163 | -14.1  | 107   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.250 | 1.287 | -3.0   | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 0.615 | 0.625 | -1.6   | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 0.972 | 0.973 | -0.1   | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.741 | 0.776 | -4.7   | 106   | 0.00     |
| 28 T  | Bromochloromethane          | 0.598 | 0.555 | 7.2    | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.399 | 0.410 | -2.8   | 101   | 0.00     |
| 30 C  | Chloroform                  | 1.251 | 1.293 | -3.4#  | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 1.043 | 1.176 | -12.8  | 118   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.084 | 1.153 | -6.4   | 111   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.848 | 0.801 | 5.5    | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.345 | 0.340 | 1.4    | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.456 | 0.540 | -18.4  | 113   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.658 | 0.689 | -4.7   | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.502 | 0.579 | -15.3  | 114   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.493 | 0.638 | -29.4# | 123   | 0.00     |
| 40 TM | Benzene                     | 1.473 | 1.632 | -10.8  | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.344 | 0.384 | -11.6  | 106   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.558 | 0.581 | -4.1   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.022 | 1.095 | -7.1   | 104   | 0.00     |
| 44 TM | Trichloroethene             | 0.348 | 0.378 | -8.6   | 108   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.374 | 0.410 | -9.6#  | 106   | 0.00     |
| 46 T  | Dibromomethane              | 0.280 | 0.291 | -3.9   | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.564 | 0.590 | -4.6   | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.460 | 0.515 | -12.0  | 104   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

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                 | 0.007 | 0.007 | 0.0    | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 1.230 | 1.257 | -2.2   | 105   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.646 | 0.701 | -8.5   | 104   | 0.00     |
| 52 CM | Toluene                     | 0.895 | 1.009 | -12.7# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.571 | 0.615 | -7.7   | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.590 | 0.642 | -8.8   | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.362 | 0.387 | -6.9   | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.552 | 0.648 | -17.4  | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.627 | 0.682 | -8.8   | 106   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.297 | 0.343 | -15.5  | 101   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.429 | 0.490 | -14.2  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.413 | 0.452 | -9.4   | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.381 | 0.402 | -5.5   | 106   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.455 | 0.466 | -2.4   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 0.322 | 0.349 | -8.4   | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 1.123 | 1.201 | -6.9   | 108   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.382 | 0.420 | -9.9   | 107   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.848 | 2.076 | -12.3# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.692 | 0.809 | -16.9  | 107   | 0.00     |
| 69 T  | o-Xylene                    | 0.661 | 0.772 | -16.8  | 107   | 0.00     |
| 70 T  | Styrene                     | 1.112 | 1.309 | -17.7  | 105   | 0.00     |
| 71 P  | Bromoform                   | 0.308 | 0.332 | -7.8   | 101   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 3.147 | 3.755 | -19.3  | 112   | 0.00     |
| 74 T  | N-amyl acetate              | 1.307 | 1.233 | 5.7    | 110   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.184 | 1.235 | -4.3   | 104   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.121 | 1.064 | 5.1    | 91    | 0.00     |
| 77 T  | Bromobenzene                | 0.816 | 0.904 | -10.8  | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 3.959 | 4.621 | -16.7  | 109   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.433 | 2.731 | -12.2  | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 2.681 | 3.169 | -18.2  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.410 | 0.388 | 5.4    | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.533 | 2.785 | -9.9   | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.239 | 2.792 | -24.7  | 117   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 2.738 | 3.245 | -18.5  | 110   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.373 | 4.076 | -20.8  | 116   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 2.703 | 3.406 | -26.0# | 116   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.602 | 1.725 | -7.7   | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.711 | 1.790 | -4.6   | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.581 | 3.160 | -22.4  | 116   | 0.00     |
| 90 T  | Hexachloroethane            | 0.573 | 0.638 | -11.3  | 113   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.517 | 1.678 | -10.6  | 108   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.311 | 0.300 | 3.5    | 101   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.891 | 0.985 | -10.5  | 107   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.331 | 0.435 | -31.4# | 134   | 0.00     |
| 95 T  | Naphthalene                 | 3.158 | 3.458 | -9.5   | 102   | 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 | 0.894 | 0.995 | -11.3 | 110   | 0.00     |

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