

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120225\  
 Data File : VN088396.D  
 Acq On : 02 Dec 2025 10:00  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 03 01:21:14 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112425W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 25 01:34:52 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    | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 0.751 | 0.786 | -4.7   | 107   | 0.00     |
| 3 P   | Chloromethane               | 0.807 | 0.845 | -4.7   | 106   | 0.00     |
| 4 C   | Vinyl Chloride              | 0.821 | 0.843 | -2.7#  | 105   | 0.00     |
| 5 T   | Bromomethane                | 0.395 | 0.429 | -8.6   | 109   | 0.00     |
| 6 T   | Chloroethane                | 0.508 | 0.539 | -6.1   | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 1.153 | 1.181 | -2.4   | 109   | 0.00     |
| 8 T   | Diethyl Ether               | 0.433 | 0.469 | -8.3   | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 0.614 | 0.613 | 0.2    | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 0.608 | 0.632 | -3.9   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 0.150 | 0.138 | 8.0    | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 0.610 | 0.615 | -0.8#  | 109   | 0.00     |
| 13 T  | Acrolein                    | 0.144 | 0.186 | -29.2# | 124   | 0.00     |
| 14 T  | Allyl chloride              | 1.131 | 1.198 | -5.9   | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 0.434 | 0.450 | -3.7   | 97    | 0.00     |
| 16 T  | Acetone                     | 0.341 | 0.307 | 10.0   | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 1.993 | 2.027 | -1.7   | 103   | 0.00     |
| 18 T  | Methyl Acetate              | 1.014 | 1.074 | -5.9   | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 2.285 | 2.558 | -11.9  | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 0.729 | 0.758 | -4.0   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 0.676 | 0.712 | -5.3   | 105   | 0.00     |
| 22 T  | Diisopropyl ether           | 2.414 | 2.692 | -11.5  | 105   | 0.00     |
| 23 T  | Vinyl Acetate               | 1.945 | 2.170 | -11.6  | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 1.367 | 1.456 | -6.5   | 103   | 0.00     |
| 25 T  | 2-Butanone                  | 0.548 | 0.563 | -2.7   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 1.180 | 1.272 | -7.8   | 107   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 0.785 | 0.832 | -6.0   | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 0.681 | 0.699 | -2.6   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 0.393 | 0.414 | -5.3   | 97    | 0.00     |
| 30 C  | Chloroform                  | 1.343 | 1.462 | -8.9#  | 106   | 0.00     |
| 31 T  | Cyclohexane                 | 1.239 | 1.232 | 0.6    | 110   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 1.181 | 1.247 | -5.6   | 109   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 0.942 | 0.990 | -5.1   | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 0.346 | 0.360 | -4.0   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 0.535 | 0.538 | -0.6   | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 0.703 | 0.697 | 0.9    | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 0.532 | 0.564 | -6.0   | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 0.572 | 0.574 | -0.3   | 106   | 0.00     |
| 40 TM | Benzene                     | 1.570 | 1.657 | -5.5   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 0.348 | 0.383 | -10.1  | 105   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 0.599 | 0.667 | -11.4  | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 1.074 | 1.142 | -6.3   | 100   | 0.00     |
| 44 TM | Trichloroethene             | 0.371 | 0.369 | 0.5    | 101   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 0.402 | 0.431 | -7.2#  | 104   | 0.00     |
| 46 T  | Dibromomethane              | 0.287 | 0.311 | -8.4   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 0.586 | 0.638 | -8.9   | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 0.490 | 0.535 | -9.2   | 102   | 0.00     |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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                 | 0.006 | 0.006 | 0.0    | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 1.289 | 1.336 | -3.6   | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 0.633 | 0.694 | -9.6   | 101   | 0.00     |
| 52 CM | Toluene                     | 0.906 | 1.005 | -10.9# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 0.601 | 0.670 | -11.5  | 104   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 0.632 | 0.699 | -10.6  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 0.351 | 0.376 | -7.1   | 104   | 0.00     |
| 56 T  | Ethyl methacrylate          | 0.554 | 0.660 | -19.1  | 105   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 0.633 | 0.694 | -9.6   | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 0.319 | 0.379 | -18.8  | 102   | 0.00     |
| 59 T  | 2-Hexanone                  | 0.399 | 0.450 | -12.8  | 101   | 0.00     |
| 60 T  | Dibromochloromethane        | 0.400 | 0.439 | -9.7   | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 0.355 | 0.382 | -7.6   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 0.442 | 0.474 | -7.2   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 0.396 | 0.355 | 10.4   | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 1.123 | 1.184 | -5.4   | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 0.379 | 0.409 | -7.9   | 106   | 0.00     |
| 67 C  | Ethyl Benzene               | 1.963 | 2.113 | -7.6#  | 108   | 0.00     |
| 68 T  | m/p-Xylenes                 | 0.728 | 0.798 | -9.6   | 108   | 0.00     |
| 69 T  | o-Xylene                    | 0.694 | 0.758 | -9.2   | 108   | 0.00     |
| 70 T  | Styrene                     | 1.127 | 1.318 | -16.9  | 110   | 0.00     |
| 71 P  | Bromoform                   | 0.277 | 0.305 | -10.1  | 107   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 1.000 | 1.000 | 0.0    | 99    | 0.00     |
| 73 T  | Isopropylbenzene            | 3.697 | 4.066 | -10.0  | 111   | 0.00     |
| 74 T  | N-amyl acetate              | 1.259 | 1.089 | 13.5   | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 1.195 | 1.245 | -4.2   | 109   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 1.171 | 1.222 | -4.4   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 0.846 | 0.922 | -9.0   | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 4.523 | 4.926 | -8.9   | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 2.762 | 2.967 | -7.4   | 109   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 3.063 | 3.376 | -10.2  | 110   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 0.413 | 0.460 | -11.4  | 106   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 2.743 | 3.100 | -13.0  | 107   | 0.00     |
| 83 T  | tert-Butylbenzene           | 2.604 | 2.789 | -7.1   | 110   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 3.045 | 3.455 | -13.5  | 110   | 0.00     |
| 85 T  | sec-Butylbenzene            | 3.741 | 4.012 | -7.2   | 110   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 3.068 | 3.397 | -10.7  | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 1.647 | 1.752 | -6.4   | 108   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 1.725 | 1.800 | -4.3   | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 2.979 | 3.192 | -7.2   | 110   | 0.00     |
| 90 T  | Hexachloroethane            | 0.560 | 0.613 | -9.5   | 114   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 1.550 | 1.664 | -7.4   | 108   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 0.290 | 0.303 | -4.5   | 104   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 0.921 | 0.953 | -3.5   | 106   | 0.00     |
| 94 T  | Hexachlorobutadiene         | 0.331 | 0.333 | -0.6   | 111   | 0.00     |
| 95 T  | Naphthalene                 | 3.190 | 3.406 | -6.8   | 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 | 0.896 | 0.919 | -2.6 | 104   | 0.00     |

(#) = Out of Range

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