

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091725\  
 Data File : VN087869.D  
 Acq On : 17 Sep 2025 09:42  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 18 03:06:05 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 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  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 122   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.865 | 1.833 | 1.7   | 128   | 0.00     |
| 3 M  | Chloromethane               | 1.957 | 1.487 | 24.0  | 101   | 0.00     |
| 4 M  | Vinyl Chloride              | 2.213 | 1.692 | 23.5  | 103   | 0.00     |
| 5 M  | Bromomethane                | 1.298 | 0.922 | 29.0# | 101   | 0.00     |
| 6 M  | Chloroethane                | 1.512 | 1.076 | 28.8# | 97    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 3.243 | 2.707 | 16.5  | 114   | 0.00     |
| 8 T  | Diethyl Ether               | 1.370 | 1.004 | 26.7# | 105   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.757 | 1.557 | 11.4  | 119   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.811 | 1.471 | 18.8  | 114   | 0.00     |
| 11   | Methyl Iodide               | 1.282 | 0.790 | 38.4# | 103   | 0.00     |
| 12   | Methyl Acetate              | 2.792 | 2.699 | 3.3   | 129   | 0.00     |
| 13 M | Acrolein                    | 0.497 | 0.578 | -16.3 | 163#  | 0.00     |
| 14 M | Acrylonitrile               | 1.202 | 1.090 | 9.3   | 126   | 0.00     |
| 15 M | Acetone                     | 0.375 | 0.315 | 16.0  | 120   | 0.00     |
| 16 M | Carbon Disulfide            | 4.972 | 4.145 | 16.6  | 116   | 0.00     |
| 17   | Allyl chloride              | 2.958 | 2.555 | 13.6  | 123   | 0.00     |
| 18 M | Methylene Chloride          | 2.052 | 1.906 | 7.1   | 132   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.847 | 1.654 | 10.4  | 122   | -0.01    |
| 20 T | Diisopropyl ether           | 6.802 | 6.097 | 10.4  | 125   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.725 | 3.405 | 8.6   | 127   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.242 | 2.095 | 6.6   | 128   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.425 | 0.392 | 7.8   | 125   | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 6.466 | 6.174 | 4.5   | 136   | 0.00     |
| 25 M | Chloroform                  | 3.899 | 3.643 | 6.6   | 127   | 0.00     |
| 26   | Cyclohexane                 | 2.837 | 2.631 | 7.3   | 131   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.563 | 2.512 | 2.0   | 122   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 133   | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.488 | 0.435 | 10.9  | 129   | 0.00     |
| 30 M | 2-Butanone                  | 0.336 | 0.296 | 11.9  | 130   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.588 | 0.608 | -3.4  | 163#  | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.618 | 0.585 | 5.3   | 134   | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.515 | 0.484 | 6.0   | 139   | 0.00     |
| 34 M | Benzene                     | 1.576 | 1.389 | 11.9  | 128   | 0.00     |
| 35   | Methacrylonitrile           | 0.351 | 0.303 | 13.7  | 117   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.595 | 0.532 | 10.6  | 128   | 0.00     |
| 37 M | Trichloroethene             | 0.352 | 0.336 | 4.5   | 139   | 0.00     |
| 38   | Methylcyclohexane           | 0.537 | 0.498 | 7.3   | 139   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.404 | 0.353 | 12.6  | 126   | 0.00     |
| 40   | Dibromomethane              | 0.300 | 0.267 | 11.0  | 129   | 0.00     |
| 41 M | Bromodichloromethane        | 0.614 | 0.543 | 11.6  | 127   | 0.00     |
| 42 M | Vinyl Acetate               | 1.122 | 0.929 | 17.2  | 124   | 0.00     |
| 43   | Ethyl Acetate               | 0.686 | 0.591 | 13.8  | 122   | 0.00     |
| 44   | Isopropyl Acetate           | 1.076 | 0.922 | 14.3  | 124   | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.007 | 0.006 | 14.3  | 121   | 0.00     |
| 46   | Methyl methacrylate         | 0.496 | 0.417 | 15.9  | 125   | 0.00     |
| 47   | n-amyl Acetate              | 0.727 | 0.552 | 24.1  | 142   | -0.05    |
| 48 M | t-1,3-Dichloropropene       | 0.638 | 0.544 | 14.7  | 130   | 0.00     |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Sep 18 03:06:05 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090425W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 05 03:29:53 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) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.653 | 0.584 | 10.6  | 137   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.388 | 0.361 | 7.0   | 136   | 0.00     |
| 51   | Ethyl methacrylate          | 0.604 | 0.513 | 15.1  | 133   | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.674 | 0.588 | 12.8  | 126   | 0.00     |
| 53 M | Dibromochloromethane        | 0.435 | 0.404 | 7.1   | 146   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.404 | 0.365 | 9.7   | 134   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.346 | 0.310 | 10.4  | 129   | 0.00     |
| 56 M | Bromoform                   | 0.284 | 0.265 | 6.7   | 146   | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 131   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.709 | 0.635 | 10.4  | 127   | 0.00     |
| 59 M | 2-Hexanone                  | 0.464 | 0.410 | 11.6  | 128   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.482 | 0.479 | 0.6   | 128   | 0.00     |
| 61 M | Tetrachloroethene           | 0.299 | 0.295 | 1.3   | 138   | 0.00     |
| 62 M | Toluene                     | 1.815 | 1.660 | 8.5   | 130   | 0.00     |
| 63 S | Toluene-d8                  | 1.395 | 1.343 | 3.7   | 124   | 0.00     |
| 64 M | Chlorobenzene               | 1.114 | 1.042 | 6.5   | 135   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.392 | 0.377 | 3.8   | 139   | 0.00     |
| 66 M | Ethyl Benzene               | 1.958 | 1.821 | 7.0   | 136   | 0.00     |
| 67 M | m/p-Xylenes                 | 0.727 | 0.678 | 6.7   | 138   | 0.00     |
| 68 M | o-Xylene                    | 0.705 | 0.643 | 8.8   | 131   | 0.00     |
| 69 M | Styrene                     | 1.225 | 1.108 | 9.6   | 134   | 0.00     |
| 70   | Isopropylbenzene            | 1.787 | 1.706 | 4.5   | 143   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.642 | 0.598 | 6.9   | 129   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.631 | 0.561 | 11.1  | 115   | 0.00     |
| 73   | Bromobenzene                | 0.437 | 0.413 | 5.5   | 137   | 0.00     |
| 74   | n-propylbenzene             | 2.254 | 2.140 | 5.1   | 139   | 0.00     |
| 75   | 2-Chlorotoluene             | 1.357 | 1.275 | 6.0   | 134   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.509 | 1.446 | 4.2   | 140   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.213 | 0.198 | 7.0   | 142   | 0.00     |
| 78   | 4-Chlorotoluene             | 1.368 | 1.243 | 9.1   | 129   | 0.00     |
| 79   | tert-butylbenzene           | 1.263 | 1.261 | 0.2   | 145   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.547 | 1.455 | 5.9   | 135   | 0.00     |
| 81   | sec-Butylbenzene            | 1.858 | 1.868 | -0.5  | 145   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.531 | 1.554 | -1.5  | 149   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.843 | 0.828 | 1.8   | 137   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.845 | 0.856 | -1.3  | 144   | 0.00     |
| 85   | n-Butylbenzene              | 1.472 | 1.461 | 0.7   | 149   | 0.00     |
| 86 T | Hexachloroethane            | 0.311 | 0.311 | 0.0   | 142   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.795 | 0.815 | -2.5  | 145   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.143 | 0.132 | 7.7   | 124   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.452 | 0.458 | -1.3  | 149   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.152 | 0.173 | -13.8 | 155#  | 0.00     |
| 91 M | Naphthalene                 | 1.664 | 1.553 | 6.7   | 141   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.452 | 0.458 | -1.3  | 149   | 0.00     |

(#) = Out of Range

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