

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN053025\  
 Data File : VN086826.D  
 Acq On : 30 May 2025 09:59  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 31 03:43:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052925W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 30 02:22:52 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                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 146   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.590  | 7.1    | 130   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 31.726  | -58.6# | 224   | 0.01     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.571  | 12.1   | 125   | 0.02     |
| 5 M  | Bromomethane                | 20.000  | 13.953  | 30.2#  | 98    | 0.02     |
| 6 M  | Chloroethane                | 20.000  | 18.767  | 6.2    | 132   | 0.01     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.840  | 5.8    | 136   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 19.886  | 0.6    | 147   | -0.02    |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.750  | 1.3    | 142   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.259  | 3.7    | 141   | -0.02    |
| 11   | Methyl Iodide               | 20.000  | 11.786  | 41.1#  | 88    | -0.02    |
| 12   | Methyl Acetate              | 20.000  | 20.019  | -0.1   | 147   | -0.02    |
| 13 M | Acrolein                    | 100.000 | 150.954 | -51.0# | 227   | -0.02    |
| 14 M | Acrylonitrile               | 100.000 | 96.747  | 3.3    | 140   | -0.01    |
| 15 M | Acetone                     | 100.000 | 118.232 | -18.2  | 170   | -0.01    |
| 16 M | Carbon Disulfide            | 20.000  | 18.170  | 9.1    | 132   | -0.02    |
| 17   | Allyl chloride              | 20.000  | 20.475  | -2.4   | 149   | -0.02    |
| 18 M | Methylene Chloride          | 20.000  | 18.731  | 6.3    | 135   | -0.02    |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.349  | 3.3    | 140   | -0.02    |
| 20 T | Diisopropyl ether           | 20.000  | 20.907  | -4.5   | 147   | -0.01    |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.452  | 2.7    | 139   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.940  | 0.3    | 145   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 108.963 | -9.0   | 156   | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 20.939  | -4.7   | 152   | -0.01    |
| 25 M | Chloroform                  | 20.000  | 19.313  | 3.4    | 140   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 20.435  | -2.2   | 148   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.223  | -0.7   | 146   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 155   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.737  | 6.3    | 144   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 102.140 | -2.1   | 156   | -0.01    |
| 31   | 2,2-Dichloropropane         | 20.000  | 19.417  | 2.9    | 147   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 18.948  | 5.3    | 145   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 18.431  | 7.8    | 142   | 0.00     |
| 34 M | Benzene                     | 20.000  | 18.537  | 7.3    | 141   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 20.267  | -1.3   | 150   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.574  | 7.1    | 141   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 16.543  | 17.3   | 130   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 19.944  | 0.3    | 156   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 18.831  | 5.8    | 143   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.372  | 8.1    | 141   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 18.567  | 7.2    | 143   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 109.433 | -9.4   | 161   | -0.01    |
| 43   | Ethyl Acetate               | 20.000  | 19.994  | 0.0    | 148   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 20.092  | -0.5   | 152   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 363.910 | 9.0    | 136   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 20.607  | -3.0   | 160   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.660  | 1.7    | 148   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.431  | 2.8    | 151   | 0.00     |

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 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 31 03:43:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052925W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 30 02:22:52 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 19.327  | 3.4   | 151   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.881  | 5.6   | 145   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.954  | 0.2   | 157   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.446  | 7.8   | 143   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.360  | 8.2   | 144   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 18.649  | 6.8   | 143   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 94.691  | 5.3   | 152   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 18.173  | 9.1   | 141   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 145   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 101.560 | -1.6  | 142   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 98.779  | 1.2   | 140   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.413  | 2.0   | 143   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 15.355  | 23.2  | 112   | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.851  | 0.7   | 142   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.366  | -1.2  | 145   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.366  | 3.2   | 140   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.908  | 0.5   | 145   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.707  | 1.5   | 142   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 38.762  | 3.1   | 139   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.668  | 1.7   | 143   | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.432  | 2.8   | 141   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.937  | 0.3   | 144   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 23.591  | -18.0 | 164   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 16.764  | 16.2  | 120   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 18.633  | 6.8   | 134   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.972  | 5.1   | 137   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 18.896  | 5.5   | 136   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.545  | 2.3   | 142   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 21.470  | -7.3  | 162   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.602  | 7.0   | 136   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 18.908  | 5.5   | 138   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.265  | 3.7   | 139   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 19.050  | 4.7   | 139   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.490  | 2.6   | 142   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.928  | 10.4  | 134   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.415  | 7.9   | 138   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.138  | 4.3   | 146   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.263  | 3.7   | 144   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.191  | 9.0   | 134   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 24.234  | -21.2 | 183   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 21.937  | -9.7  | 173   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.074  | 9.6   | 141   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 23.579  | -17.9 | 192   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 21.937  | -9.7  | 173   | 0.00     |

(#) = Out of Range

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