

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112625\  
 Data File : VN088368.D  
 Acq On : 26 Nov 2025 13:12  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Nov 27 00:12:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N111325W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 14 00:49:21 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    | 95    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 16.238  | 18.8   | 69    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 19.745  | 1.3    | 89    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.415  | 12.9   | 79    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 17.375  | 13.1   | 83    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 18.487  | 7.6    | 83    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 16.829  | 15.9   | 75    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 20.184  | -0.9   | 96    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 17.454  | 12.7   | 78    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 17.568  | 12.2   | 79    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 18.227  | 8.9    | 87    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 21.862  | -9.3   | 101   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 142.726 | -42.7# | 150   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 98.782  | 1.2    | 92    | 0.00     |
| 15 M | Acetone                     | 100.000 | 100.642 | -0.6   | 93    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 16.942  | 15.3   | 75    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.034  | 9.8    | 83    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 20.306  | -1.5   | 94    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 17.674  | 11.6   | 79    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 20.029  | -0.1   | 93    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.694  | 1.5    | 90    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.614  | 1.9    | 91    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 94.878  | 5.1    | 92    | -0.01    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 19.841  | 0.8    | 94    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.757  | 1.2    | 92    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 14.875  | 25.6#  | 65    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 27.844  | 7.2    | 88    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 81    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.700  | 6.5    | 74    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 111.775 | -11.8  | 93    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 19.051  | 4.7    | 76    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 19.902  | 0.5    | 79    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 19.104  | 4.5    | 76    | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.335  | -6.7   | 86    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 22.578  | -12.9  | 95    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 21.818  | -9.1   | 89    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 21.650  | -8.2   | 87    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 16.814  | 15.9   | 66    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 22.144  | -10.7  | 91    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 23.186  | -15.9  | 94    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 22.127  | -10.6  | 93    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 120.597 | -20.6  | 100   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 20.841  | -4.2   | 85    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 22.636  | -13.2  | 94    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 513.130 | -28.3# | 100   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 22.348  | -11.7  | 95    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 22.006  | -10.0  | 99    | -0.11    |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 20.772  | -3.9   | 90    | 0.00     |

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Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
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 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  | 21.576  | -7.9   | 89    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 22.816  | -14.1  | 95    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 21.641  | -8.2   | 94    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 22.201  | -11.0  | 92    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 22.668  | -13.3  | 96    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 21.966  | -9.8   | 93    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 106.748 | -6.7   | 92    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 20.456  | -2.3   | 88    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0    | 81    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 122.851 | -22.9  | 99    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 117.048 | -17.0  | 98    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 28.118  | 6.3    | 78    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 25.477  | -27.4# | 97    | 0.00     |
| 62 M | Toluene                     | 20.000  | 21.253  | -6.3   | 83    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.107  | -0.4   | 79    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.894  | -4.5   | 85    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 22.622  | -13.1  | 91    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.681  | 1.6    | 79    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 39.625  | 0.9    | 79    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 20.080  | -0.4   | 82    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.899  | 0.5    | 82    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 18.829  | 5.9    | 75    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 21.705  | -8.5   | 88    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 20.123  | -0.6   | 89    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 20.672  | -3.4   | 84    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.798  | 6.0    | 75    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 18.664  | 6.7    | 76    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.029  | 4.9    | 77    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 20.892  | -4.5   | 90    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.948  | 5.3    | 76    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 18.414  | 7.9    | 75    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 18.750  | 6.3    | 76    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 18.372  | 8.1    | 72    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.532  | 7.3    | 73    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 20.237  | -1.2   | 80    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.592  | 2.0    | 80    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 17.529  | 12.4   | 68    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 17.141  | 14.3   | 70    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.259  | -1.3   | 81    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 21.062  | -5.3   | 89    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 20.742  | -3.7   | 86    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.181  | 9.1    | 71    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 20.597  | -3.0   | 86    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 20.742  | -3.7   | 86    | 0.00     |

(#) = Out of Range

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