

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041125\  
 Data File : VN086248.D  
 Acq On : 11 Apr 2025 13:34  
 Operator : JC\MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 12 01:21:52 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  | 100   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 21.563  | -7.8 | 112   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 20.226  | -1.1 | 109   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 20.223  | -1.1 | 107   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 20.183  | -0.9 | 108   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 20.642  | -3.2 | 111   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 20.473  | -2.4 | 110   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 20.276  | -1.4 | 109   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 20.062  | -0.3 | 107   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 20.128  | -0.6 | 107   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 20.148  | -0.7 | 108   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 19.227  | 3.9  | 105   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 89.375  | 10.6 | 122   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 95.988  | 4.0  | 102   | 0.00     |
| 15 M | Acetone                     | 100.000 | 93.868  | 6.1  | 99    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 20.456  | -2.3 | 107   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 20.801  | -4.0 | 112   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 20.166  | -0.8 | 110   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.638  | 1.8  | 107   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 20.688  | -3.4 | 110   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 20.578  | -2.9 | 108   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 20.174  | -0.9 | 108   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 96.723  | 3.3  | 100   | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 20.211  | -1.1 | 109   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 20.677  | -3.4 | 110   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 19.913  | 0.4  | 108   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 29.777  | 0.7  | 100   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0  | 102   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.373  | -1.9 | 108   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 98.995  | 1.0  | 103   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 21.111  | -5.6 | 111   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.044  | -0.2 | 107   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.360  | -1.8 | 108   | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.522  | -2.6 | 109   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 19.764  | 1.2  | 106   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.391  | -2.0 | 108   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 19.842  | 0.8  | 105   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 20.137  | -0.7 | 109   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 20.675  | -3.4 | 110   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 19.681  | 1.6  | 105   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 20.289  | -1.4 | 108   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 103.572 | -3.6 | 107   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 20.054  | -0.3 | 104   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 20.285  | -1.4 | 109   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 369.952 | 7.5  | 97    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 19.956  | 0.2  | 106   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.589  | 2.1  | 107   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 20.190  | -1.0 | 108   | 0.00     |

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 Sample : VSTDICV020  
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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICSVN041125

Quant Time: Apr 12 01:24:15 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 12 01:21:52 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  | 20.581  | -2.9   | 109   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 19.741  | 1.3    | 104   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 20.259  | -1.3   | 108   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 20.216  | -1.1   | 109   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 19.923  | 0.4    | 105   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 19.762  | 1.2    | 105   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 132.990 | -33.0# | 113   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 19.359  | 3.2    | 103   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0    | 101   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 101.329 | -1.3   | 104   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 101.451 | -1.5   | 105   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.482  | 1.7    | 100   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 20.169  | -0.8   | 107   | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.568  | -2.8   | 108   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.890  | 0.4    | 99    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.424  | -2.1   | 108   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 20.546  | -2.7   | 108   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 20.336  | -1.7   | 107   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 40.633  | -1.6   | 108   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 20.528  | -2.6   | 109   | 0.00     |
| 69 M | Styrene                     | 20.000  | 20.281  | -1.4   | 109   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 20.275  | -1.4   | 108   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 20.516  | -2.6   | 107   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 19.534  | 2.3    | 104   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.870  | 0.6    | 105   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.227  | -1.1   | 109   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.943  | 0.3    | 107   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 20.354  | -1.8   | 108   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 19.590  | 2.1    | 104   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.528  | 2.4    | 106   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 20.021  | -0.1   | 107   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.981  | 0.1    | 106   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 20.145  | -0.7   | 106   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.959  | 0.2    | 106   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.047  | 4.8    | 103   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.923  | 5.4    | 102   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.828  | 0.9    | 106   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.245  | 3.8    | 103   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.727  | 6.4    | 100   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.109  | 9.5    | 93    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 18.826  | 5.9    | 94    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 17.262  | 13.7   | 90    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 18.155  | 9.2    | 93    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 18.826  | 5.9    | 94    | 0.00     |

(#) = Out of Range

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