

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071521\  
 Data File : VN067756.D  
 Acq On : 15 Jul 2021 10:34  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 15 16:11:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N071421W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jul 14 01:19:19 2021  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 105   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 21.024  | -5.1   | 117   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 21.490  | -7.4   | 112   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 22.509  | -12.5  | 117   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 22.056  | -10.3  | 112   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 23.308  | -16.5  | 117   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 23.377  | -16.9  | 117   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 25.659  | -28.3  | 137   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 22.853  | -14.3  | 123   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 21.072  | -5.4   | 115   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 19.800  | 1.0    | 116   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 21.445  | -7.2   | 120   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 103.706 | -3.7   | 120   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 104.842 | -4.8   | 119   | 0.00     |
| 15 M | Acetone                     | 100.000 | 143.545 | -43.5# | 158   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 19.717  | 1.4    | 113   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 20.681  | -3.4   | 114   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 20.037  | -0.2   | 114   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 20.421  | -2.1   | 116   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 20.812  | -4.1   | 117   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 21.328  | -6.6   | 118   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 20.290  | -1.4   | 117   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 99.624  | 0.4    | 109   | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 20.524  | -2.6   | 115   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 21.450  | -7.2   | 119   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 20.921  | -4.6   | 118   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 32.544  | -8.5   | 104   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 102   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.712  | -3.6   | 118   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 110.904 | -10.9  | 129   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.743  | -3.7   | 120   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.189  | -0.9   | 118   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 19.986  | 0.1    | 119   | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.896  | -4.5   | 119   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 21.722  | -8.6   | 139   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 21.343  | -6.7   | 115   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 20.244  | -1.2   | 117   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 20.202  | -1.0   | 117   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 20.593  | -3.0   | 118   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 20.592  | -3.0   | 118   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 20.459  | -2.3   | 118   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 103.142 | -3.1   | 129   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.938  | 5.3    | 114   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 19.919  | 0.4    | 116   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 390.524 | 2.4    | 112   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 19.606  | 2.0    | 116   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 18.310  | 8.5    | 112   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.157  | 4.2    | 117   | 0.00     |

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 Acq On : 15 Jul 2021 10:34  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jul 15 16:11:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N071421W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jul 14 01:19:19 2021  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 19.627  | 1.9   | 117   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 20.407  | -2.0  | 121   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.067  | 4.7   | 114   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 20.028  | -0.1  | 116   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 19.155  | 4.2   | 121   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 19.686  | 1.6   | 117   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 64.120  | 35.9# | 83    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 16.983  | 15.1  | 119   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 100   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 103.420 | -3.4  | 116   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 106.423 | -6.4  | 122   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.895  | 0.4   | 101   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 21.774  | -8.9  | 124   | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.423  | -2.1  | 114   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.937  | -3.1  | 103   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.205  | -1.0  | 115   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 20.143  | -0.7  | 120   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 20.416  | -2.1  | 115   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 41.159  | -2.9  | 117   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 20.259  | -1.3  | 116   | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.975  | 0.1   | 115   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 20.344  | -1.7  | 116   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 20.609  | -3.0  | 117   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 22.692  | -13.5 | 117   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.205  | 4.0   | 116   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.718  | -3.6  | 116   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 20.612  | -3.1  | 116   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 20.877  | -4.4  | 118   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 17.973  | 10.1  | 115   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 20.358  | -1.8  | 113   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 20.135  | -0.7  | 115   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 20.553  | -2.8  | 116   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 20.412  | -2.1  | 114   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.711  | 1.4   | 115   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.567  | 2.2   | 116   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 19.423  | 2.9   | 115   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 19.613  | 1.9   | 114   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 18.668  | 6.7   | 114   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 19.230  | 3.8   | 113   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 18.990  | 5.1   | 111   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 16.643  | 16.8  | 107   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.782  | 6.1   | 105   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 14.492  | 27.5  | 98    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 16.614  | 16.9  | 107   | 0.00     |

(#) = Out of Range

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