

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042321\  
 Data File : VN066752.D  
 Acq On : 23 Apr 2021 20:55  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Apr 26 09:08:28 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042021W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Apr 21 16:55:39 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   | 104   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 18.092  | 9.5   | 100   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 18.530  | 7.3   | 101   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 19.522  | 2.4   | 109   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 21.479  | -7.4  | 115   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 19.786  | 1.1   | 110   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 20.013  | -0.1  | 112   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 19.482  | 2.6   | 112   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.154  | 4.2   | 109   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.573  | 2.1   | 113   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 18.945  | 5.3   | 109   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 19.154  | 4.2   | 105   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 104.393 | -4.4  | 114   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 95.117  | 4.9   | 106   | 0.00     |
| 15 M | Acetone                     | 100.000 | 94.169  | 5.8   | 101   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 18.512  | 7.4   | 105   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.831  | 5.8   | 107   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 19.645  | 1.8   | 111   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.236  | 3.8   | 109   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 19.180  | 4.1   | 109   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.458  | 2.7   | 112   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.509  | 2.5   | 112   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 91.269  | 8.7   | 102   | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 19.296  | 3.5   | 112   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.664  | 1.7   | 111   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.228  | 8.9   | 108   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 28.773  | 4.1   | 98    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 107   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.601  | 7.0   | 111   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 89.495  | 10.5  | 102   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 17.499  | 12.5  | 101   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 19.178  | 4.1   | 111   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 19.127  | 4.4   | 112   | 0.00     |
| 34 M | Benzene                     | 20.000  | 19.271  | 3.6   | 112   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 18.458  | 7.7   | 104   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 18.028  | 9.9   | 102   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 18.921  | 5.4   | 113   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 17.742  | 11.3  | 110   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 19.113  | 4.4   | 110   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 18.970  | 5.2   | 108   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 18.849  | 5.8   | 108   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 92.024  | 8.0   | 107   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 18.000  | 10.0  | 101   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 17.991  | 10.0  | 105   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 361.949 | 9.5   | 98    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 16.999  | 15.0  | 100   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 7.011   | 64.9# | 137   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 17.863  | 10.7  | 106   | 0.00     |

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 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  | 18.594  | 7.0    | 111   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 19.256  | 3.7    | 110   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 17.833  | 10.8   | 111   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 18.599  | 7.0    | 108   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 18.880  | 5.6    | 109   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 18.617  | 6.9    | 106   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 141.923 | -41.9# | 185   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 18.179  | 9.1    | 106   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0    | 102   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 92.882  | 7.1    | 100   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 88.698  | 11.3   | 99    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.339  | 2.2    | 103   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 19.851  | 0.7    | 109   | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.576  | 2.1    | 109   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.624  | -2.1   | 103   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.305  | 3.5    | 108   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.966  | 0.2    | 112   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 18.774  | 6.1    | 108   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 38.597  | 3.5    | 110   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.377  | 3.1    | 111   | 0.00     |
| 69 M | Styrene                     | 20.000  | 18.935  | 5.3    | 112   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.398  | 3.0    | 111   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 19.924  | 0.4    | 104   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 19.079  | 4.6    | 109   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.502  | 2.5    | 111   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.638  | 6.8    | 110   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.382  | 3.1    | 110   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.234  | 3.8    | 110   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 16.614  | 16.9   | 108   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 19.119  | 4.4    | 113   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 19.525  | 2.4    | 114   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 19.150  | 4.3    | 114   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 18.928  | 5.4    | 112   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 19.348  | 3.3    | 119   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 19.768  | 1.2    | 118   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.661  | 6.7    | 111   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 18.106  | 9.5    | 120   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 19.341  | 3.3    | 112   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.673  | -3.4   | 122   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 19.719  | 1.4    | 126   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 21.506  | -7.5   | 139   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 19.943  | 0.3    | 115   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 24.514  | -22.6  | 152   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 21.924  | -9.6   | 136   | 0.00     |

(#) = Out of Range

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