

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121721\  
 Data File : VN070178.D  
 Acq On : 17 Dec 2021 21:19  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Dec 19 08:51:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N121321W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Dec 14 00:59:04 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    | 92    | -0.76#   |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 0.007  | 100.0# | 0     | 0.48     |
| 3 M  | Chloromethane               | 20.000  | 0.024  | 99.9#  | 0     | -0.04    |
| 4 M  | Vinyl Chloride              | 20.000  | 2.281  | 88.6#  | 11    | 0.23     |
| 5 M  | Bromomethane                | 20.000  | 0.025  | 99.9#  | 0     | -0.15    |
| 6 M  | Chloroethane                | 20.000  | 0.266  | 98.7#  | 1     | -0.01    |
| 7 M  | Trichlorofluoromethane      | 20.000  | 0.004  | 100.0# | 0     | -0.44    |
| 8 T  | Diethyl Ether               | 20.000  | 0.000  | 100.0# | 0     | -3.83#   |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 0.000  | 100.0# | 0     | -4.21#   |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.736 | 1.3    | 95    | -0.05    |
| 11   | Methyl Iodide               | 20.000  | 0.000  | 100.0# | 0     | -4.42#   |
| 12   | Methyl Acetate              | 20.000  | 0.002  | 100.0# | 0     | 0.02     |
| 13 M | Acrolein                    | 100.000 | 0.098  | 99.9#  | 0     | -0.02    |
| 14 M | Acrylonitrile               | 100.000 | 0.008  | 100.0# | 0     | -0.14    |
| 15 M | Acetone                     | 100.000 | 0.080  | 99.9#  | 0     | -0.34    |
| 16 M | Carbon Disulfide            | 20.000  | 0.000  | 100.0# | 0     | -4.53#   |
| 17   | Allyl chloride              | 20.000  | 0.008  | 100.0# | 0     | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 0.032  | 99.8#  | 0     | 0.02     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 0.005  | 100.0# | 0     | -0.02    |
| 20 T | Diisopropyl ether           | 20.000  | 0.055  | 99.7#  | 0     | -0.04    |
| 21 M | 1,1-Dichloroethane          | 20.000  | 5.426  | 72.9#  | 27    | 0.05     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 0.013  | 99.9#  | 0     | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 36.244 | 63.8#  | 41    | -0.04    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 0.000  | 100.0# | 0     | -5.62#   |
| 25 M | Chloroform                  | 20.000  | 1.103  | 94.5#  | 5     | -0.18    |
| 26   | Cyclohexane                 | 20.000  | 0.006  | 100.0# | 0     | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 0.011  | 100.0# | 0     | -0.30    |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000 | 0.0    | 96    | -0.38    |
| 29   | 1,1-Dichloropropene         | 20.000  | 0.009  | 100.0# | 0     | 0.14     |
| 30 M | 2-Butanone                  | 100.000 | 0.021  | 100.0# | 0     | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 0.010  | 99.9#  | 0     | 0.10     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 0.082  | 99.6#  | 0     | 0.03     |
| 33 M | Carbon Tetrachloride        | 20.000  | 0.005  | 100.0# | 0     | -0.39    |
| 34 M | Benzene                     | 20.000  | 0.001  | 100.0# | 0     | -0.06    |
| 35   | Methacrylonitrile           | 20.000  | 27.368 | -36.8# | 149   | -0.04    |
| 36 M | 1,2-Dichloroethane          | 20.000  | 1.909  | 90.5#  | 10    | 0.34     |
| 37 M | Trichloroethene             | 20.000  | 17.500 | 12.5   | 89    | -0.35    |
| 38   | Methylcyclohexane           | 20.000  | 17.529 | 12.4   | 90    | -0.32    |
| 39 M | 1,2-Dichloropropane         | 20.000  | 18.479 | 7.6    | 93    | -0.31    |
| 40   | Dibromomethane              | 20.000  | 18.130 | 9.4    | 90    | -0.30    |
| 41 M | Bromodichloromethane        | 20.000  | 16.511 | 17.4   | 83    | -0.26    |
| 42 M | Vinyl Acetate               | 100.000 | 32.833 | 67.2#  | 34    | 0.03     |
| 43   | Ethyl Acetate               | 20.000  | 0.005  | 100.0# | 0     | -0.01    |
| 44   | Isopropyl Acetate           | 20.000  | 0.007  | 100.0# | 0     | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 3.300  | 99.2#  | 1     | -0.07    |
| 46   | Methyl methacrylate         | 20.000  | 21.334 | -6.7   | 111   | -0.27    |
| 47   | n-amyl Acetate              | 20.000  | 19.994 | 0.0    | 120   | -0.04    |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 0.007  | 100.0# | 0     | 0.01     |

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 VSTDCCC020

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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  | 17.509  | 12.5   | 93    | -0.20    |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 18.773  | 6.1    | 95    | -0.13    |
| 51   | Ethyl methacrylate          | 20.000  | 0.009   | 100.0# | 0     | 0.03     |
| 52   | 1,3-Dichloropropane         | 20.000  | 0.009   | 100.0# | 0     | -0.01    |
| 53 M | Dibromochloromethane        | 20.000  | 0.004   | 100.0# | 0     | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 18.790  | 6.1    | 99    | -0.11    |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 145.632 | -45.6# | 172   | -0.21    |
| 56 M | Bromoform                   | 20.000  | 14.656  | 26.7   | 79    | -0.05    |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0    | 97    | -0.08    |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 0.347   | 99.7#  | 0     | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 108.400 | -8.4   | 111   | -0.11    |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.154  | -0.5   | 99    | -0.04    |
| 61 M | Tetrachloroethene           | 20.000  | 18.955  | 5.2    | 91    | -0.13    |
| 62 M | Toluene                     | 20.000  | 0.002   | 100.0# | 0     | 0.02     |
| 63 S | Toluene-d8                  | 30.000  | 0.003   | 100.0# | 0     | 0.02     |
| 64 M | Chlorobenzene               | 20.000  | 18.482  | 7.6    | 93    | -0.08    |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 17.464  | 12.7   | 87    | -0.08    |
| 66 M | Ethyl Benzene               | 20.000  | 19.104  | 4.5    | 95    | -0.07    |
| 67 M | m/p-Xylenes                 | 40.000  | 38.578  | 3.6    | 96    | -0.07    |
| 68 M | o-Xylene                    | 20.000  | 0.010   | 99.9#  | 0     | 0.05     |
| 69 M | Styrene                     | 20.000  | 18.115  | 9.4    | 92    | -0.05    |
| 70   | Isopropylbenzene            | 20.000  | 18.843  | 5.8    | 95    | -0.04    |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 19.757  | 1.2    | 99    | -0.03    |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 25.900  | -29.5  | 124   | -0.03    |
| 73   | Bromobenzene                | 20.000  | 18.263  | 8.7    | 93    | -0.04    |
| 74   | n-propylbenzene             | 20.000  | 18.083  | 9.6    | 92    | -0.03    |
| 75   | 2-Chlorotoluene             | 20.000  | 18.741  | 6.3    | 95    | -0.03    |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 18.680  | 6.6    | 94    | -0.03    |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 15.822  | 20.9   | 90    | -0.03    |
| 78   | 4-Chlorotoluene             | 20.000  | 18.023  | 9.9    | 92    | -0.03    |
| 79   | tert-butylbenzene           | 20.000  | 18.482  | 7.6    | 95    | -0.02    |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 22.672  | -13.4  | 114   | 0.11     |
| 81   | sec-Butylbenzene            | 20.000  | 18.104  | 9.5    | 94    | -0.02    |
| 82   | p-Isopropyltoluene          | 20.000  | 17.871  | 10.6   | 91    | -0.02    |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 17.851  | 10.7   | 91    | -0.02    |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 17.839  | 10.8   | 92    | -0.02    |
| 85   | n-Butylbenzene              | 20.000  | 16.708  | 16.5   | 91    | -0.01    |
| 86 T | Hexachloroethane            | 20.000  | 14.621  | 26.9   | 78    | -0.01    |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.776  | 6.1    | 94    | -0.01    |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 20.057  | -0.3   | 111   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 19.580  | 2.1    | 107   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.303  | 8.5    | 89    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 28.884  | -44.4# | 184   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 21.875  | -9.4   | 118   | 0.00     |

(#) = Out of Range

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