

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN072723\  
 Data File : VN078674.D  
 Acq On : 27 Jul 2023 21:00  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 01:13:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 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   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 147   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.475  | -7.0   | 164   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 56.120  | -12.2  | 179   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.360  | 9.3#   | 141   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.354  | 17.3   | 119   | -0.02    |
| 6 T   | Chloroethane                | 50.000  | 44.881  | 10.2   | 121   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.884  | -5.8   | 163   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.491  | -11.0  | 162   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.843  | -3.7   | 155   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.550  | -9.1   | 160   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 312.378 | -25.0  | 185   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.017  | -6.0#  | 158   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 320.324 | -28.1# | 185   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.199  | -12.4  | 170   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 307.642 | -23.1  | 179   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 305.429 | -22.2  | 189   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.255  | -0.5   | 156   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 62.257  | -24.5  | 187   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 56.898  | -13.8  | 164   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.878  | -13.8  | 162   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.154  | -6.3   | 157   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 60.311  | -20.6  | 173   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 304.115 | -21.6  | 169   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.280  | -10.6  | 164   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 319.986 | -28.0# | 187   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.422  | 15.2   | 125   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 53.514  | -7.0   | 157   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.251  | -0.5   | 147   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 316.192 | -26.5# | 181   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.611  | -11.2# | 161   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.948  | -5.9   | 170   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.082  | -10.2  | 159   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.758  | -7.5   | 160   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 142   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.421  | -4.8   | 152   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.505  | -9.0   | 159   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 60.421  | -20.8  | 171   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.615  | -9.2   | 157   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.836  | -13.7  | 162   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 56.129  | -12.3  | 160   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 66.406  | -32.8# | 191   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.494  | -13.0  | 166   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 78.295  | -56.6# | 221   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.001  | -2.0   | 152   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 56.655  | -13.3# | 165   | 0.00     |
| 46 T  | Dibromomethane              | 50.000  | 54.899  | -9.8   | 155   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000  | 55.648  | -11.3  | 158   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000  | 62.559  | -25.1# | 172   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 28 01:13:27 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 10 16:13:53 2023  
 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  | 1,4-Dioxane                 | 1000.000 | 1192.380 | -19.2  | 170   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.835   | 2.3    | 142   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 315.817  | -26.3# | 174   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.033   | -10.1# | 155   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.529   | -11.1  | 154   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.783   | -13.6  | 154   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.590   | -11.2  | 159   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 61.565   | -23.1  | 164   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.630   | -11.3  | 158   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.530  | -8.6   | 147   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 319.673  | -27.9# | 173   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.125   | -8.3   | 150   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.233   | -8.5   | 153   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.790   | 0.4    | 140   | 0.00     |
|       |                             |          |          |        |       |          |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 132   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.171   | -6.3   | 142   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.032   | -6.1   | 143   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.574   | -7.1   | 142   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 56.335   | -12.7# | 145   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 113.596  | -13.6  | 142   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.046   | -8.1   | 140   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.561   | -13.1  | 141   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.517   | -13.0  | 142   | 0.00     |
|       |                             |          |          |        |       |          |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 132   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.957   | 2.1    | 139   | 0.00     |
| 74 T  | N-ethyl acetate             | 50.000   | 54.588   | -9.2   | 153   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 58.124   | -16.2  | 145   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.848   | -3.7   | 148   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.642   | -7.3   | 139   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.959   | -1.9   | 140   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.365   | -0.7   | 145   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.811   | -3.6   | 145   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.520   | 3.0    | 137   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.628   | -3.3   | 144   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.413   | 1.2    | 140   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.955   | -1.9   | 141   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.741   | 0.5    | 140   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.927   | -1.9   | 139   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.242   | 1.5    | 134   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.623   | 4.8    | 132   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.099   | -6.2   | 138   | 0.00     |
| 90 T  | Hexachloroethane            | 50.000   | 52.217   | -4.4   | 139   | 0.00     |
| 91 T  | 1,2-Dichlorobenzene         | 50.000   | 47.280   | 5.4    | 129   | 0.00     |
| 92 T  | 1,2-Dibromo-3-Chloropropane | 50.000   | 39.775   | 20.5   | 105   | 0.00     |
| 93 T  | 1,2,4-Trichlorobenzene      | 50.000   | 36.439   | 27.1#  | 90    | 0.00     |
| 94 T  | Hexachlorobutadiene         | 50.000   | 44.607   | 10.8   | 109   | 0.00     |
| 95 T  | Naphthalene                 | 50.000   | 31.951   | 36.1#  | 83    | 0.00     |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Jul 28 01:13:27 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N071023W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 10 16:13:53 2023  
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) |
|------|------------------------|--------|--------|-------|-------|----------|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 34.888 | 30.2# | 92    | 0.00     |

(#) = Out of Range                      SPCC's out = 0    CCC's out = 6