

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN100119\  
 Data File : VN058473.D  
 Acq On : 1 Oct 2019 19:37  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 07:45:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 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    | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.332  | -0.7   | 74    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.605  | -9.2   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.992  | -6.0#  | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.070  | -0.1   | 75    | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 53.977  | -8.0   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 54.280  | -8.6   | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.566  | -5.1   | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.480  | -5.0   | 77    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.659  | 0.7    | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 315.281 | -26.1# | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.286  | -4.6#  | 76    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 382.474 | -53.0# | 125   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.239  | -6.5   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 293.855 | -17.5  | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 252.068 | -0.8   | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.546  | -5.1   | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.841  | -7.7   | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.462  | -6.9   | 79    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.074  | -2.1   | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.209  | -4.4   | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.816  | -9.6   | 82    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 299.487 | -19.8  | 81    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.030  | -8.1   | 80    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 286.847 | -14.7  | 83    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.287  | 3.4    | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.935  | -5.9   | 78    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.748  | -11.5  | 81    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 294.405 | -17.8  | 86    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.121  | -8.2#  | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.052  | -2.1   | 78    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.602  | -11.2  | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.834  | -5.7   | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.302  | -4.6   | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.245  | -2.5   | 77    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 57.935  | -15.9  | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.924  | -7.8   | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.021  | -4.0   | 78    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.708  | -5.4   | 79    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.923  | -13.8  | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.970  | -5.9   | 81    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.596  | -5.2   | 82    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.210  | -2.4   | 76    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.780  | -7.6#  | 81    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN100119\  
 Data File : VN058473.D  
 Acq On : 1 Oct 2019 19:37  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 02 07:45:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.672   | -7.3   | 81    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 57.067   | -14.1  | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.594   | -13.2  | 85    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1462.776 | -46.3# | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.626   | -3.3   | 76    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 308.758  | -23.5  | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.660   | -3.3#  | 79    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.717   | -11.4  | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.499   | -11.0  | 78    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.893   | -11.8  | 83    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 57.406   | -14.8  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.228   | -10.5  | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 274.424  | -9.8   | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 306.557  | -22.6  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.484   | -9.0   | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.396   | -10.8  | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.223   | -4.4   | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.644   | -7.3   | 84    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.530   | -3.1   | 79    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.917   | -7.8   | 79    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.443   | -6.9#  | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.639  | -4.6   | 79    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.630   | -3.3   | 78    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.238   | -10.5  | 81    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.566   | -7.1   | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 78    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.636   | -5.3   | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.262   | -10.5  | 83    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.659   | -9.3   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.901   | -7.8   | 82    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.630   | -1.3   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.339   | -10.7  | 82    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.920   | -3.8   | 81    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.665   | -7.3   | 81    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.951   | -7.9   | 79    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.139   | -6.3   | 82    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.249   | -8.5   | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.075   | -8.2   | 81    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 55.701   | -11.4  | 83    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.497   | -13.0  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.623   | -3.2   | 80    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.082   | -2.2   | 79    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.662   | -11.3  | 84    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN100119\  
Data File : VN058473.D  
Acq On : 1 Oct 2019 19:37  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 02 07:45:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 30 08:07:38 2019  
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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 59.549 | -19.1 | 86    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.304 | -4.6  | 81    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 59.043 | -18.1 | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 56.653 | -13.3 | 81    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.053 | -6.1  | 84    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.380 | -8.8  | 84    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 54.864 | -9.7  | 86    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6