

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN110218\  
 Data File : VN052140.D  
 Acq On : 2 Nov 2018 20:12  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 02 23:58:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N103018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 31 02:45:22 2018  
 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   | 113   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.234  | 3.5   | 105   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.610  | 12.8  | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.008  | 14.0# | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 35.414  | 29.2# | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 42.326  | 15.3  | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.127  | -2.3  | 115   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.062  | 3.9   | 112   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.032  | 3.9   | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.647  | 2.7   | 109   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 258.161 | -3.3  | 130   | 0.02     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.100  | 3.8#  | 108   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 153.208 | 38.7# | 68    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 43.864  | 12.3  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 252.938 | -1.2  | 115   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 237.593 | 5.0   | 113   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.632  | 16.7  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.567  | -1.1  | 126   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.219  | 5.6   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.139  | 5.7   | 106   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.037  | 5.9   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 44.903  | 10.2  | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 235.116 | 6.0   | 102   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 44.413  | 11.2  | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 257.375 | -2.9  | 116   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 36.977  | 26.0# | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.215  | 7.6   | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 42.054  | 15.9  | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 260.108 | -4.0  | 116   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.279  | 9.4#  | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 41.692  | 16.6  | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.165  | 3.7   | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.933  | 14.1  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.801  | -1.6  | 115   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.281  | 9.4   | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.310  | -0.6  | 120   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.701  | -3.4  | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.298  | 11.4  | 92    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.400  | 5.2   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.938  | -5.9  | 108   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 43.780  | 12.4  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.241  | -6.5  | 114   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.369  | -2.7  | 109   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 44.779  | 10.4# | 99    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN110218\  
 Data File : VN052140.D  
 Acq On : 2 Nov 2018 20:12  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 02 23:58:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N103018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 31 02:45:22 2018  
 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   | 50.549   | -1.1  | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.502   | 1.0   | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.572   | 0.9   | 107   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1123.198 | -12.3 | 129   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.658   | 2.7   | 108   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.432  | -7.8  | 115   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.059   | 3.9#  | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.803   | 8.4   | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.920   | 6.2   | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.939   | -3.9  | 110   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.983   | 0.0   | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.490   | 5.0   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.289  | 0.3   | 105   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 264.635  | -5.9  | 115   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.472   | -10.9 | 113   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.535   | -7.1  | 113   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.472   | 7.1   | 102   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 107   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.634   | -5.3  | 114   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.250   | -0.5  | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.000   | -12.0 | 112   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.630   | 2.7#  | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.071  | -4.1  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.911   | -1.8  | 101   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.206   | -4.4  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.778   | -9.6  | 123   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 110   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.216   | 7.6   | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.106   | 5.8   | 109   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.864   | 0.3   | 114   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.604   | 6.8   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.248   | -4.5  | 115   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 44.683   | 10.6  | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 44.527   | 10.9  | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 45.843   | 8.3   | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.303   | 5.4   | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.258   | 9.5   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 47.887   | 4.2   | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 46.727   | 6.5   | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 45.568   | 8.9   | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.430   | 5.1   | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.716   | -1.4  | 112   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.980   | 0.0   | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 43.102   | 13.8  | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN110218\  
Data File : VN052140.D  
Acq On : 2 Nov 2018 20:12  
Operator : MD\SY  
Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 27 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
LabSampleId :  
VSTDCCC050

Quant Time: Nov 02 23:58:50 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N103018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 31 02:45:22 2018  
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 | 48.274 | 3.5    | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.698 | -5.4   | 114   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.573 | -5.1   | 119   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 59.841 | -19.7  | 129   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.083 | 1.8    | 114   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 64.720 | -29.4# | 135   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 63.272 | -26.5# | 137   | 0.00     |

(#) = Out of Range

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