

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN083118\  
 Data File : VN050977.D  
 Acq On : 31 Aug 2018 10:20  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 31 14:20:14 2018  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N082118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.230  | 5.5   | 78    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.152  | 15.7  | 79    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.639  | 10.7# | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.962  | 6.1   | 85    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.516  | 9.0   | 84    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.961  | 6.1   | 85    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.716  | 8.6   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.955  | 4.1   | 89    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.312  | 9.4   | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 207.850 | 16.9  | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.841  | 8.3#  | 83    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 154.670 | 38.1# | 53    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.189  | 7.6   | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 227.505 | 9.0   | 81    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 279.732 | -11.9 | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.003  | 20.0  | 76    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.675  | 0.7   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.180  | 3.6   | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.425  | 11.2  | 85    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.904  | 8.2   | 84    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.440  | 1.1   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 228.003 | 8.8   | 77    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.241  | 7.5   | 85    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 214.992 | 14.0  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.861  | 6.3   | 87    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.786  | 4.4   | 86    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.651  | 0.7   | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 227.691 | 8.9   | 78    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.243  | 5.5#  | 87    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.054  | 9.9   | 83    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.878  | 6.2   | 87    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.895  | 6.2   | 86    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.074  | -2.1  | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.252  | -0.5  | 86    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.811  | 10.4  | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.187  | 1.6   | 86    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.396  | -2.8  | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.017  | -0.0  | 86    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.126  | 3.7   | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.515  | 3.0   | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.229  | 3.5   | 81    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.576  | 0.8   | 86    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.844  | 0.3#  | 87    | 0.00     |

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 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Aug 22 05:38:12 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.036  | 1.9   | 85    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.779  | -1.6  | 87    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.627  | 4.7   | 79    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 951.735 | 4.8   | 77    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.667  | -3.3  | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 228.010 | 8.8   | 79    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.250  | -4.5# | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.877  | 0.2   | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.594  | -3.2  | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.905  | 0.2   | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 44.720  | 10.6  | 81    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.196  | -0.4  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 214.854 | 14.1  | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 235.248 | 5.9   | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.160  | -2.3  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.722  | 0.6   | 84    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.886  | -3.8  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.903  | 2.2   | 85    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.202  | -0.4  | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.533  | -3.1  | 89    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.363  | -4.7# | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.734 | -8.7  | 87    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.666  | -7.3  | 86    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.178  | 1.6   | 86    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.433  | -2.9  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.678  | -3.4  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.452  | 9.1   | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.783  | 0.4   | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.312  | 3.4   | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.471  | 3.1   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.253  | -6.5  | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.065  | -0.1  | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.307  | -6.6  | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.243  | 5.5   | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.369  | -2.7  | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.718  | -5.4  | 88    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.652  | -7.3  | 86    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.821  | -7.6  | 89    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.522  | -11.0 | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.275  | -0.5  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.886  | 2.2   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.100  | -10.2 | 88    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.284 | -4.6  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.657 | 0.7   | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 43.235 | 13.5  | 76    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 43.238 | 13.5  | 79    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 55.911 | -11.8 | 93    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 38.192 | 23.6# | 72    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 44.374 | 11.3  | 80    | 0.00     |

(#) = Out of Range

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