

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\  
 Data File : VN055810.D  
 Acq On : 24 May 2019 21:33  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 25 05:19:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 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  | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.993  | 10.0 | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.856  | 10.3 | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.089  | 7.8# | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.136  | -6.3 | 104   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.493  | 1.0  | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.971  | 4.1  | 100   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.167  | 5.7  | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.805  | 4.4  | 100   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.200  | -4.4 | 102   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 260.483 | -4.2 | 102   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.596  | 4.8# | 99    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 227.153 | 9.1  | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.755  | 8.5  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 245.959 | 1.6  | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 202.704 | 18.9 | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.074  | 13.9 | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.245  | -0.5 | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.432  | 3.1  | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.574  | 4.9  | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.281  | 5.4  | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.740  | 4.5  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 238.940 | 4.4  | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.225  | 5.5  | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 233.822 | 6.5  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 40.910  | 18.2 | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.041  | 1.9  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.616  | -1.2 | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 243.360 | 2.7  | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.484  | 3.0# | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.987  | 8.0  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.975  | 4.0  | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.820  | 0.4  | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.586  | -1.2 | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.708  | 6.6  | 100   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.382  | -0.8 | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.756  | 6.5  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.497  | 9.0  | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.638  | 2.7  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.186  | 9.6  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.111  | 3.8  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.346  | 5.3  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.316  | -0.6 | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.918  | 2.2# | 101   | 0.00     |

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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   | 49.322  | 1.4  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.463  | 5.1  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.711  | 0.6  | 101   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 972.398 | 2.8  | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.817  | 0.4  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 244.130 | 2.3  | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.960  | 2.1# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.520  | 5.0  | 96    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.656  | 4.7  | 97    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.617  | 0.8  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.528  | 0.9  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.471  | 1.1  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 237.769 | 4.9  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 235.300 | 5.9  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.884  | 2.2  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.045  | -0.1 | 102   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.337  | 1.3  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 101   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.266  | -0.5 | 106   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.360  | 1.3  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.631  | 2.7  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.428  | 3.1# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.395  | 2.6  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.468  | 3.1  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.809  | 0.4  | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.777  | 2.4  | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.397  | -8.8 | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.627  | -1.3 | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.144  | -8.3 | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.551  | -9.1 | 99    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.373  | 3.3  | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.882  | 6.2  | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.041  | -6.1 | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.719  | -5.4 | 98    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.082  | 9.8  | 89    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.152  | 5.7  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.233  | -8.5 | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.545  | -5.1 | 98    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.033  | -6.1 | 99    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.511  | 7.0  | 97    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.724  | 2.6  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.296  | 1.4  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.322  | 7.4  | 93    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 45.200 | 9.6  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.518 | 3.0  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.140 | 9.7  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 45.754 | 8.5  | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.401 | -0.8 | 96    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.276 | -2.6 | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.212 | -2.4 | 98    | 0.00     |

(#) = Out of Range

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