

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN032119\  
 Data File : VN054545.D  
 Acq On : 22 Mar 2019 7:46  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 22 11:07:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N032019W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 22 02:09:07 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    | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.993  | -4.0   | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 53.699  | -7.4   | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.400  | -4.8#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.717  | 14.6   | 80    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.718  | 2.6    | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.952  | -1.9   | 89    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.886  | 4.2    | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.842  | 12.3   | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.559  | 6.9    | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 289.603 | -15.8  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.430  | 7.1#   | 82    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 247.185 | 1.1    | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.548  | -5.1   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 299.833 | -19.9  | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 226.056 | 9.6    | 75    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.354  | 3.3    | 88    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.929  | -19.9  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.636  | -11.3  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.670  | -5.3   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 55.064  | -10.1  | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 58.522  | -17.0  | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 300.616 | -20.2  | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.170  | -14.3  | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 294.826 | -17.9  | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 33.545  | 32.9#  | 57    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.223  | -8.4   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 59.511  | -19.0  | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 309.651 | -23.9  | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 56.278  | -12.6# | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.902  | -7.8   | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 56.451  | -12.9  | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 56.722  | -13.4  | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.379  | -0.8   | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.137  | 1.7    | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.809  | -9.6   | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.367  | 3.3    | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.696  | 8.6    | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.725  | -3.5   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.785  | -1.6   | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.798  | -3.6   | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.330  | -12.7  | 100   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.487  | 3.0    | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.778  | -7.6#  | 98    | 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   | 52.898   | -5.8  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.274   | -6.5  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.178   | -8.4  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1042.373 | -4.2  | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.835   | 0.3   | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 290.313  | -16.1 | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.689   | 0.6#  | 93    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.528   | 8.9   | 89    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.092   | -0.2  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.191   | -4.4  | 96    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.410   | -10.8 | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.801   | -5.6  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 277.122  | -10.8 | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.657  | -10.7 | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.339   | -4.7  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.438   | -4.9  | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.195   | 1.6   | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.616   | 2.8   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.483   | 1.0   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.416   | -4.8  | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.524   | 1.0#  | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.717   | 2.3   | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.311   | 1.4   | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.377   | -0.8  | 91    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.053   | 5.9   | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.181   | 3.6   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 58.230   | -16.5 | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.564   | -9.1  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.097   | -6.2  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.896   | 2.2   | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.505   | 3.0   | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.774   | 4.5   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.428   | 3.1   | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.023   | 14.0  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.009   | 2.0   | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.396   | 3.2   | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.866   | 2.3   | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.556   | 2.9   | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.882   | 4.2   | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.939   | 4.1   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.858   | 4.3   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.642   | 2.7   | 85    | 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 | 53.064 | -6.1  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.378 | 1.2   | 89    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.186 | -10.4 | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.591 | -1.2  | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.615 | 0.8   | 83    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.607 | -7.2  | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.582 | -3.2  | 86    | 0.00     |

(#) = Out of Range

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