

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092619\  
 Data File : VN058371.D  
 Acq On : 26 Sep 2019 9:28  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 27 03:36:56 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 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   | 72    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.187  | 19.6  | 64    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 43.900  | 12.2  | 66    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.129  | 9.7#  | 67    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.310  | 5.4   | 72    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.173  | 3.7   | 70    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.490  | 13.0  | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.410  | 9.2   | 70    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.949  | 8.1   | 74    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.047  | 7.9   | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 254.545 | -1.8  | 75    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.317  | 5.4#  | 71    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 135.551 | 45.8# | 39    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.785  | 6.4   | 73    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 261.155 | -4.5  | 77    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 291.353 | -16.5 | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.017  | 16.0  | 66    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.325  | -0.7  | 79    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.675  | -1.3  | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.115  | 1.8   | 74    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.137  | 5.7   | 71    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.154  | -0.3  | 75    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 268.245 | -7.3  | 76    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.257  | 3.5   | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 275.364 | -10.1 | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.430  | 1.1   | 77    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.392  | 5.2   | 73    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.607  | -3.2  | 74    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.875 | 1.7   | 75    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.516  | 3.0#  | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.548  | 6.9   | 70    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.210  | -0.4  | 74    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.023  | 4.0   | 69    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 74    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.804  | 4.4   | 69    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 43.233  | 13.5  | 71    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.689  | -1.4  | 76    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.292  | 5.4   | 74    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 45.141  | 9.7   | 69    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.997  | 8.0   | 72    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.055  | 5.9   | 70    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.490  | 5.0   | 74    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.296  | 3.4   | 75    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 45.946  | 8.1   | 71    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.100  | 1.8#  | 74    | 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   | 48.328   | 3.3   | 74    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.247   | -4.5  | 77    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.755   | -1.5  | 75    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1056.553 | -5.7  | 76    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 45.554   | 8.9   | 64    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 282.591  | -13.0 | 78    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 45.793   | 8.4#  | 70    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.996   | -6.0  | 75    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.472   | -2.9  | 75    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.306   | -0.6  | 75    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.920   | -3.8  | 74    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.304   | 1.4   | 74    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 259.210  | -3.7  | 69    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 286.007  | -14.4 | 79    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.192   | -8.4  | 76    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.318   | 1.4   | 74    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.491   | 7.0   | 67    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 43.475   | 13.0  | 68    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.216   | 5.6   | 72    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.489   | -7.0  | 76    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.701   | 0.6#  | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.570   | 4.4   | 71    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.003   | 2.0   | 72    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.897   | -1.8  | 72    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.625   | 2.8   | 76    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 71    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.781   | -3.6  | 73    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.390   | -8.8  | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.230   | -4.5  | 75    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.568   | -3.1  | 76    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.809   | 4.4   | 71    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.128   | -6.3  | 73    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.660   | -1.3  | 72    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.581   | -5.2  | 72    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.147   | -0.3  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.792   | -1.6  | 72    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.774   | -3.5  | 72    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.095   | -6.2  | 72    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.779   | -9.6  | 74    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.907   | -9.8  | 73    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.308   | -0.6  | 72    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.929   | 2.1   | 70    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.688   | -7.4  | 71    | 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 | 51.654 | -3.3  | 78    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.549 | -1.1  | 71    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.115 | -10.2 | 76    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.681 | -1.4  | 70    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.409 | -2.8  | 74    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.559 | -9.1  | 71    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.444 | -2.9  | 70    | 0.00     |

(#) = Out of Range

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