

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN111618\  
 Data File : VN052351.D  
 Acq On : 16 Nov 2018 8:16  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 16 22:57:30 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N111418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 15 03:02:37 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   | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.127  | -2.3  | 99    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.679  | 2.6   | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.446  | 1.1#  | 101   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.266  | 7.5   | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.715  | 2.6   | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.204  | -0.4  | 103   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.588  | 10.8  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.211  | 1.6   | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.087  | 5.8   | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 178.068 | 28.8# | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.857  | 6.3#  | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 191.244 | 23.5  | 77    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.627  | 0.7   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 215.985 | 13.6  | 87    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 245.728 | 1.7   | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.022  | -0.0  | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 43.164  | 13.7  | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.888  | 6.2   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.008  | 4.0   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.195  | 5.6   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.187  | 1.6   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 245.262 | 1.9   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.560  | 2.9   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 225.491 | 9.8   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.145  | -4.3  | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.212  | 5.6   | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.784  | 4.4   | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 208.375 | 16.7  | 84    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.207  | -2.4# | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.829  | 0.3   | 102   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.545  | 0.9   | 102   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.261  | 3.5   | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.739  | -1.5  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.506  | -3.0  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.912  | 10.2  | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.420  | -8.8  | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.721  | -7.4  | 105   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.444  | -0.9  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.267  | 3.5   | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.699  | -1.4  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 43.071  | 13.9  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.669  | -1.3  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.567  | 0.9#  | 100   | 0.00     |

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 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   | 48.389  | 3.2   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.555  | -7.1  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 44.167  | 11.7  | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 858.922 | 14.1  | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.325  | -0.7  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 229.663 | 8.1   | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.773  | -3.5# | 100   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.239  | -6.5  | 100   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.305  | -6.6  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.239  | 3.5   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.709  | 2.6   | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.295  | 1.4   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 246.532 | 1.4   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 240.954 | 3.6   | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.137  | -4.3  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.677  | 2.6   | 94    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.868  | -3.7  | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.024  | -2.0  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.786  | 0.4   | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.149  | -4.3  | 101   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.579  | -5.2# | 102   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.978 | -6.0  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.057  | -6.1  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.431  | -8.9  | 101   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.949  | -3.9  | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.585  | -1.2  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.520  | 7.0   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 42.597  | 14.8  | 89    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.524  | 13.0  | 88    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.418  | 3.2   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.853  | -3.7  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.979  | 0.0   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.990  | -4.0  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.201  | 5.6   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.035  | -0.1  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.634  | -1.3  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.463  | -4.9  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.236  | -4.5  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.720  | -5.4  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.225  | -0.5  | 102   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.115  | -0.2  | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.764  | -11.5 | 106   | 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 | 53.779 | -7.6 | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.504 | 3.0  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.999 | 10.0 | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.487 | 5.0  | 100   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.041 | -4.1 | 106   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 42.272 | 15.5 | 87    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.283 | -2.6 | 95    | 0.00     |

(#) = Out of Range

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