

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN082419\  
 Data File : VN057475.D  
 Acq On : 23 Aug 2019 16:13  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 26 05:21:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 05:07:29 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  | 45.349  | 9.3    | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.451  | 11.1   | 86    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.921  | 8.2#   | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.670  | 2.7    | 94    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.672  | 6.7    | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.334  | 7.3    | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.952  | 0.1    | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.198  | -2.4   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.885  | -7.8   | 97    | -0.01    |
| 11 T  | Tert butyl alcohol          | 250.000 | 224.258 | 10.3   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.314  | 7.4#   | 90    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 223.361 | 10.7   | 82    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.800  | 8.4    | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 237.857 | 4.9    | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 315.289 | -26.1# | 176   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.878  | 16.2   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.141  | 5.7    | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 43.234  | 13.5   | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.037  | 5.9    | 86    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 43.806  | 12.4   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 46.323  | 7.4    | 87    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 232.198 | 7.1    | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.113  | 9.8    | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 236.515 | 5.4    | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.928  | 10.1   | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 44.657  | 10.7   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.845  | -1.7   | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 235.065 | 6.0    | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.182  | 3.6#   | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.812  | 8.4    | 87    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 44.612  | 10.8   | 86    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.293  | 1.4    | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 89    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.361  | 3.3    | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.995  | 8.0    | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.531  | 4.9    | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 43.559  | 12.9   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.814  | 4.4    | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.191  | 9.6    | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.673  | 8.7    | 90    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.435  | 9.1    | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.822  | 8.4    | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.700  | 6.6    | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 45.613  | 8.8#   | 90    | 0.00     |

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 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 48.264  | 3.5    | 88    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 44.778  | 10.4   | 88    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.530  | 4.9    | 89    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 910.934 | 8.9    | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.721  | 2.6    | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 235.528 | 5.8    | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.674  | 6.7#   | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.625  | 8.8    | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 44.342  | 11.3   | 87    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 44.642  | 10.7   | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.182  | 5.6    | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 46.279  | 7.4    | 87    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 342.451 | -37.0# | 139   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 242.926 | 2.8    | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 44.250  | 11.5   | 84    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 45.960  | 8.1    | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.831  | -3.7   | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.234  | 7.5    | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.817  | 6.4    | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 45.880  | 8.2    | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.596  | 0.8#   | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.365 | -3.4   | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.121  | -0.2   | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.157  | -6.3   | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.946  | 8.1    | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.242  | -4.5   | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.879  | 0.2    | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.883  | -1.8   | 90    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.725  | -5.5   | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.350  | -2.7   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.129  | -4.3   | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.323  | -4.6   | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.573  | -5.1   | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.777  | 6.4    | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.876  | -3.8   | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.698  | -3.4   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.902  | 4.2    | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.094  | -4.2   | 91    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.840  | 6.3    | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.651  | 4.7    | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.922  | 4.2    | 93    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.915  | 0.2    | 95    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.583 | -1.2 | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.418 | 3.2  | 92    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.694 | 8.6  | 86    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 41.945 | 16.1 | 93    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.188 | -8.4 | 96    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 42.112 | 15.8 | 91    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 43.716 | 12.6 | 97    | 0.00     |

(#) = Out of Range

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