

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092719\  
 Data File : VN058418.D  
 Acq On : 27 Sep 2019 19:04  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 30 08:45:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 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    | 94    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.351  | 1.3    | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.084  | 3.8    | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.466  | 1.1#   | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.335  | -2.7   | 97    | 0.02     |
| 6 T   | Chloroethane                | 50.000  | 49.776  | 0.4    | 94    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.809  | 2.4    | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.998  | -2.0   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.458  | 1.1    | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 55.333  | -10.7  | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 275.358 | -10.1  | 105   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.942  | 0.1#   | 92    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 326.637 | -30.7# | 135   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.198  | -0.4   | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 265.036 | -6.0   | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 225.412 | 9.8    | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.919  | -1.8   | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.576  | 2.8    | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.213  | -0.4   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.827  | 4.3    | 95    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.493  | 1.0    | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.949  | 0.1    | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 276.635 | -10.7  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.330  | -0.7   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 253.717 | -1.5   | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.493  | 7.0    | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.997  | 0.0    | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.100  | -0.2   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 263.286 | -5.3   | 97    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.761  | 0.5#   | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.601  | 2.8    | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.630  | -3.3   | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.293  | 1.4    | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.865  | -1.7   | 94    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.569  | 0.9    | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.272  | -6.5   | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.333  | -2.7   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.811  | -1.6   | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.026  | -0.1   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 38.824  | 22.4   | 72    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.658  | 0.7    | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.661  | 2.7    | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.108  | -0.2   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.161  | -0.3#  | 94    | 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   | 50.336   | -0.7   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.882   | -5.8   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.620   | -3.2   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1313.922 | -31.4# | 118   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.914   | -1.8   | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 281.388  | -12.6  | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.842   | 0.3#   | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.898   | -7.8   | 93    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.638   | -7.3   | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.874   | -5.7   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.607   | -9.2   | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.761   | -3.5   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 273.648  | -9.5   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 279.536  | -11.8  | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.535   | -3.1   | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.289   | -4.6   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.205   | -4.4   | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.795   | 2.4    | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.277   | -0.6   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.415   | -4.8   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.150   | -4.3#  | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.168  | -2.2   | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.871   | -1.7   | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.324   | -6.6   | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.249   | -0.5   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 98    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.334   | -0.7   | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.571   | -5.1   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.867   | 0.3    | 99    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.396   | 1.2    | 95    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.742   | 2.5    | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.175   | -4.3   | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.491   | 1.0    | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.106   | -2.2   | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.819   | -1.6   | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.540   | -1.1   | 98    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.489   | -3.0   | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.514   | -1.0   | 95    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.506   | -5.0   | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.769   | -7.5   | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.676   | 0.6    | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.912   | 0.2    | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.588   | -5.2   | 100   | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 55.182 | -10.4 | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.015 | -2.0  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 56.234 | -12.5 | 107   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 55.667 | -11.3 | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.852 | 2.3   | 97    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.560 | -5.1  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.391 | -4.8  | 103   | 0.00     |

(#) = Out of Range

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