

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062420\  
 Data File : VN062079.D  
 Acq On : 24 Jun 2020 22:14  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 25 05:30:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 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  | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.701  | 4.6  | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.943  | -1.9 | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.683  | 6.6# | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 38.828  | 22.3 | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.015  | 4.0  | 98    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.986  | 6.0  | 108   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.043  | 1.9  | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.638  | 6.7  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 38.692  | 22.6 | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 246.815 | 1.3  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.440  | 3.1# | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 216.978 | 13.2 | 86    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.044  | 1.9  | 98    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 248.913 | 0.4  | 99    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 242.749 | 2.9  | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.756  | 0.5  | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.971  | 6.1  | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.000  | 0.0  | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.261  | -2.5 | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.248  | 5.5  | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.639  | 2.7  | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 253.046 | -1.2 | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.479  | 5.0  | 99    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 245.718 | 1.7  | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.945  | 14.1 | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.108  | 3.8  | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.356  | 11.3 | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 251.500 | -0.6 | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.930  | 4.1# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.293  | 3.4  | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.305  | 3.4  | 99    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.029  | 3.9  | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.806  | 4.4  | 100   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.387  | 5.2  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.364  | 1.3  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.724  | 2.6  | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.186  | 1.6  | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.025  | 4.0  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.725  | 8.5  | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.941  | 4.1  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.531  | -1.1 | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.066  | 5.9  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.435  | 1.1# | 101   | 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   | 48.590   | 2.8   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.419   | 1.2   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.864   | -1.7  | 100   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1041.369 | -4.1  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.627   | 2.7   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 260.221  | -4.1  | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.543   | -1.1# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.104   | 1.8   | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.351   | -0.7  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.498   | 1.0   | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.423   | -6.8  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.024   | -0.0  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 225.221  | 9.9   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 266.234  | -6.5  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.711   | -1.4  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.529   | 0.9   | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.753   | 0.5   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.110   | 5.8   | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.184   | 3.6   | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.464   | 3.1   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.897   | -1.8# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.122  | -2.1  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.046   | -4.1  | 100   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.173   | -6.3  | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.735   | -3.5  | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.195   | 1.6   | 100   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.955   | 4.1   | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.005   | 6.0   | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.261   | 13.5  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.578   | 6.8   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.899   | 0.2   | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.602   | 2.8   | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.368   | -0.7  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.302   | 5.4   | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.426   | 3.1   | 99    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.509   | 1.0   | 99    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.273   | -2.5  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.314   | -0.6  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.737   | -1.5  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.046   | 3.9   | 98    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.742   | 6.5   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.290   | -2.6  | 99    | 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 | 47.336 | 5.3  | 98    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.213 | 3.6  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.745 | 0.5  | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.032 | -2.1 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.268 | 5.5  | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.775 | 8.5  | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.727 | 0.5  | 96    | 0.00     |

(#) = Out of Range

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