

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062520\  
 Data File : VN062100.D  
 Acq On : 25 Jun 2020 10:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 26 05:46:28 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  | 95    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.822  | 4.4  | 97    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.177  | -0.4 | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.522  | 7.0# | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.814  | 14.4 | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.437  | 5.1  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.754  | 6.5  | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.375  | 3.3  | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.689  | 4.6  | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.671  | 8.7  | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 219.608 | 12.2 | 88    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.417  | 5.2# | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 210.259 | 15.9 | 82    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.737  | 2.5  | 96    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 231.425 | 7.4  | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 270.353 | -8.1 | 102   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.497  | 3.0  | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.286  | 11.4 | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.167  | 1.7  | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.983  | 0.0  | 97    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.369  | 7.3  | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.713  | 2.6  | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 246.719 | 1.3  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.507  | 5.0  | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 238.458 | 4.6  | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.558  | 2.9  | 98    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.968  | 6.1  | 97    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.959  | 6.1  | 97    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 228.752 | 8.5  | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.161  | 3.7# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.069  | 5.9  | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.743  | 4.5  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.047  | 5.9  | 99    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.889  | 4.2  | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.139  | 3.7  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.866  | 6.3  | 92    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.774  | 2.5  | 98    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.643  | -1.3 | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.850  | 2.3  | 98    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 41.199  | 17.6 | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.083  | 1.8  | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.862  | 4.3  | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.864  | 4.3  | 99    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.416  | 1.2# | 99    | 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   | 48.649  | 2.7   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.805  | 0.4   | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.980  | 2.0   | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 940.396 | 6.0   | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.472  | 3.1   | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 243.544 | 2.6   | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.275  | -2.5# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.829  | -1.7  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.205  | -4.4  | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.338  | -0.7  | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.189  | -4.4  | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.814  | 0.4   | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.144 | 3.9   | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 250.845 | -0.3  | 92    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.616  | -1.2  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.245  | 1.5   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.956  | 0.1   | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.159  | 7.7   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.323  | 3.4   | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.705  | 0.6   | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.374  | -2.7# | 99    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.658 | -2.7  | 98    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.542  | -5.1  | 99    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.621  | -7.2  | 99    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.465  | 1.1   | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.349  | 1.3   | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.799  | 8.4   | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.752  | 10.5  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.279  | 13.4  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.428  | 7.1   | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.813  | -1.6  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.989  | 2.0   | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.365  | -2.7  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.644  | 2.7   | 96    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.330  | 1.3   | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.873  | 2.3   | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.978  | -2.0  | 99    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.720  | -1.4  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.305  | -4.6  | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.259  | 1.5   | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.422  | 5.2   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.759  | -7.5  | 103   | 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 | 48.973 | 2.1  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.563 | 2.9  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.287 | 7.4  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.162 | -8.3 | 104   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.368 | 3.3  | 101   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.668 | 8.7  | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.156 | -4.3 | 100   | 0.00     |

(#) = Out of Range

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