

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081420\  
 Data File : VN062942.D  
 Acq On : 14 Aug 2020 18:30  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 17 09:44:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 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    | 110   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.027  | 9.9    | 93    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.403  | -8.8   | 122   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 77.701  | -55.4# | 167   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 60.293  | -20.6  | 142   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 74.259  | -48.5# | 164   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.542  | -13.1  | 127   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.731  | 8.5    | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.395  | 1.2    | 107   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.988  | 6.0    | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 215.446 | 13.8   | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.060  | 5.9#   | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 246.762 | 1.3    | 112   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 42.717  | 14.6   | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 232.361 | 7.1    | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 230.703 | 7.7    | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.191  | 13.6   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.849  | 4.3    | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.537  | 6.9    | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.801  | 4.4    | 104   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 43.836  | 12.3   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.541  | 4.9    | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 216.311 | 13.5   | 97    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 44.438  | 11.1   | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 232.631 | 6.9    | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 44.333  | 11.3   | 103   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.362  | 9.3    | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.441  | 3.1    | 111   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 230.634 | 7.7    | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.430  | 9.1#   | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 42.679  | 14.6   | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 45.047  | 9.9    | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.483  | 5.0    | 108   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 105   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.385  | -4.8   | 113   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.055  | 9.9    | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.086  | 5.8    | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.751  | 10.5   | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.735  | 6.5    | 99    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.803  | 8.4    | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.086  | 13.8   | 82    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.530  | 6.9    | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.842  | 8.3    | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.242  | 7.5    | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.920  | 2.2#   | 103   | 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   | 48.419   | 3.2  | 103   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.409   | 1.2  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 46.252   | 7.5  | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1008.839 | -0.9 | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.404   | -2.8 | 111   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 242.357  | 3.1  | 98    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.913   | 4.2# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.897   | 4.2  | 99    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.558   | 2.9  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.013   | 4.0  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.957   | 0.1  | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.396   | 3.2  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 211.154  | 15.5 | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 241.885  | 3.2  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.569   | 0.9  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.775   | 0.5  | 105   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.302   | -4.6 | 111   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 108   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 46.410   | 7.2  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.864   | 4.3  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.782   | 2.4  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.275   | 3.5# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.238   | 0.8  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.784   | -1.6 | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.267   | -2.5 | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.361   | 3.3  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.144   | 3.7  | 99    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.012   | 4.0  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.914   | 8.2  | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 40.908   | 18.2 | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.889   | 4.2  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.974   | 4.1  | 99    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.021   | 6.0  | 99    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.757   | 0.5  | 101   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.865   | 6.3  | 94    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.344   | 3.3  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.556   | 0.9  | 102   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.861   | -1.7 | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.276   | 1.4  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.165   | -0.3 | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.987   | 4.0  | 100   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.225   | 5.5  | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.566   | 2.9  | 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 | 45.607 | 8.8    | 100   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.324 | -0.6   | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.699 | 6.6    | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 55.811 | -11.6  | 130   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 72.187 | -44.4# | 144   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 59.417 | -18.8  | 140   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 64.110 | -28.2# | 145   | 0.00     |

(#) = Out of Range

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