

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN062220\  
 Data File : VN061990.D  
 Acq On : 22 Jun 2020 11:02  
 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 22 15:02:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 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    | 107   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.819  | 8.4    | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.453  | 15.1   | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.765  | 10.5#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 41.082  | 17.8   | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.463  | 7.1    | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.849  | 2.3    | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.207  | -6.4   | 110   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.911  | 0.2    | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.835  | 0.3    | 111   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 261.514 | -4.6   | 115   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.536  | 4.9#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 338.746 | -35.5# | 154   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.496  | -3.0   | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 283.378 | -13.4  | 117   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 275.483 | -10.2  | 128   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.128  | 21.7   | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.083  | -8.2   | 117   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.659  | -7.3   | 113   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.580  | 4.8    | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.624  | 6.8    | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.686  | -9.4   | 118   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 276.972 | -10.8  | 116   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 50.792  | -1.6   | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 284.619 | -13.8  | 121   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.116  | -4.2   | 115   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.118  | -0.2   | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.496  | -13.0  | 128   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 275.903 | -10.4  | 117   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.425  | -0.8#  | 110   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 44.269  | 11.5   | 99    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.102  | 1.8    | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.664  | -11.3  | 125   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 56.300  | -12.6  | 121   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.898  | 0.2    | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.927  | -13.9  | 115   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.497  | -1.0   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.129  | -0.3   | 98    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.772  | -3.5   | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.178  | -10.4  | 122   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.313  | -8.6   | 112   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 58.153  | -16.3  | 117   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.331  | -0.7   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.704  | -9.4#  | 111   | 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   | 54.330   | -8.7   | 110   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.332   | -8.7   | 112   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 58.712   | -17.4  | 121   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1144.030 | -14.4  | 116   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 55.631   | -11.3  | 120   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 295.034  | -18.0  | 119   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.141   | -6.3#  | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.330   | -14.7  | 116   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.552   | -13.1  | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.609   | -13.2  | 115   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.052   | -4.1   | 115   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.191   | -12.4  | 115   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 316.434  | -26.6# | 128   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 267.740  | -7.1   | 120   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.444   | -10.9  | 113   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.202   | -8.4   | 110   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 57.538   | -15.1  | 123   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.853   | 0.3    | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.737   | -1.5   | 110   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 53.291   | -6.6   | 110   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.006   | -6.0#  | 109   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.184  | -6.2   | 108   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.224   | -6.4   | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.030   | -10.1  | 109   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.229   | -10.5  | 112   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.261   | -4.5   | 109   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.070   | -2.1   | 117   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.102   | -4.2   | 117   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.613   | -9.2   | 124   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.701   | -1.4   | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.756   | -5.5   | 110   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.648   | -3.3   | 110   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.543   | -5.1   | 108   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 56.079   | -12.2  | 120   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.468   | -4.9   | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.857   | -3.7   | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.172   | -8.3   | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.674   | -7.3   | 111   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.508   | -9.0   | 109   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.351   | -2.7   | 109   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.655   | 0.7    | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.535   | -9.1   | 112   | 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 | 54.538 | -9.1 | 114   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.851 | -3.7 | 108   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.539 | -9.1 | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.958 | -5.9 | 108   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.093 | -8.2 | 113   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.887 | 8.2  | 106   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.849 | -7.7 | 109   | 0.00     |

(#) = Out of Range

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