

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN092920\  
 Data File : VN063721.D  
 Acq On : 29 Sep 2020 12:18  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 29 14:38:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 102   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 43.932  | 12.1  | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 38.490  | 23.0# | 82    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.143  | 9.7#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.448  | -0.9  | 107   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.181  | 9.6   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.199  | -2.4  | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.228  | 3.5   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.245  | -0.5  | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.759  | 8.5   | 91    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 217.527 | 13.0  | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.461  | 9.1#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 178.065 | 28.8# | 70    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.242  | 9.5   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 234.681 | 6.1   | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 252.316 | -0.9  | 107   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.776  | 20.4# | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.559  | -3.1  | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.509  | 3.0   | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.670  | 8.7   | 98    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.846  | 8.3   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.319  | 5.4   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 239.033 | 4.4   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.554  | 4.9   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 241.096 | 3.6   | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.279  | -0.6  | 105   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.049  | 1.9   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.560  | 10.9  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.563 | 9.8   | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.885  | 0.2#  | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 40.999  | 18.0  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.198  | -2.4  | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.997  | 12.0  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 46.822  | 6.4   | 93    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.395  | -2.8  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.162  | -2.3  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.936  | -11.9 | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.810  | 2.4   | 92    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.332  | -2.7  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.918  | -11.8 | 104   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.112  | -10.2 | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.277  | -0.6  | 95    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.874  | -9.7  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.473  | -2.9# | 96    | 0.00     |

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 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 54.343  | -8.7   | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.600  | -13.2  | 106   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.416  | -0.8   | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 972.651 | 2.7    | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.471  | 7.1    | 90    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 264.932 | -6.0   | 99    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.190  | -10.4# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.387  | -10.8  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.338  | -8.7   | 100   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.246  | -12.5  | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.936  | -9.9   | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.862  | -5.7   | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 223.835 | 10.5   | 87    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.651 | -9.9   | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.446  | -14.9  | 107   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.550  | -11.1  | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.554  | -1.1   | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 58.739  | -17.5  | 116   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.735  | -9.5   | 106   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.689  | -13.4  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.959  | -7.9#  | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 111.004 | -11.0  | 106   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.441  | -10.9  | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.533  | -15.1  | 105   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 60.409  | -20.8# | 112   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.219  | -4.4   | 106   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.776  | 2.4    | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.385  | 1.2    | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.229  | 7.5    | 102   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.919  | -11.8  | 113   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.462  | -4.9   | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.951  | -3.9   | 107   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.586  | -5.2   | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.922  | 0.2    | 104   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.522  | -3.0   | 106   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.867  | -5.7   | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.510  | -5.0   | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.734  | -3.5   | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.627  | -7.3   | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.562  | -9.1   | 111   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.545  | -9.1   | 110   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.262  | -4.5   | 104   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.895 | -1.8   | 103   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.909 | -9.8   | 110   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.581 | 0.8    | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.368 | -4.7   | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 63.567 | -27.1# | 126   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.868 | 4.3    | 92    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.155 | -4.3   | 101   | 0.00     |

(#) = Out of Range

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