

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN101819\  
 Data File : VN058849.D  
 Acq On : 18 Oct 2019 11:27  
 Operator : JC/SP  
 Sample : VSTDICV050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ICVVN101819

Quant Time: Oct 19 00:35:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 2019  
 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  | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.136  | 3.7  | 102   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.352  | 7.3  | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.356  | 3.3# | 103   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.985  | 4.0  | 102   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.913  | 6.2  | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.961  | 6.1  | 98    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.104  | -0.2 | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.340  | 5.3  | 104   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.180  | 1.6  | 104   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 237.555 | 5.0  | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.933  | 2.1# | 105   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 273.326 | -9.3 | 112   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.873  | 0.3  | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 248.676 | 0.5  | 102   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 244.019 | 2.4  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.076  | 3.8  | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.274  | 7.5  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.271  | -2.5 | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.138  | 7.7  | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.222  | 1.6  | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.701  | -1.4 | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.111 | -9.6 | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.129  | 3.7  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 248.911 | 0.4  | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.489  | 1.0  | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.828  | 0.3  | 104   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.544  | 2.9  | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 254.084 | -1.6 | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.224  | 5.6# | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.342  | 3.3  | 104   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.021  | 2.0  | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.997  | 2.0  | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 106   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.509  | 3.0  | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.354  | -0.7 | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.565  | -1.1 | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.757  | 2.5  | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.043  | -4.1 | 105   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.410  | 1.2  | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.653  | 12.7 | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.825  | 4.3  | 102   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.417  | -0.8 | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.082  | 1.8  | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.420  | 1.2# | 104   | 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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.181  | 1.6   | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.236  | 1.5   | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.074  | -4.1  | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 960.546 | 3.9   | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.424  | 1.2   | 104   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 271.108 | -8.4  | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.193  | -2.4# | 103   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.757  | -3.5  | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.796  | -1.6  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.295  | 3.4   | 103   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.738  | 4.5   | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.282  | 1.4   | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 240.720 | 3.7   | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 269.784 | -7.9  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.723  | 0.6   | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.611  | 0.8   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.711  | 0.6   | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.823  | 2.4   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.529  | -1.1  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.104  | -0.2  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.506  | -7.0# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.322 | -7.3  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.242  | -6.5  | 104   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.906  | 2.2   | 104   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.916  | -1.8  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 105   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.747  | -3.5  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.944  | -7.9  | 103   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.194  | 3.6   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.653  | 6.7   | 102   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.704  | 2.6   | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.249  | -4.5  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.582  | 0.8   | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.549  | -5.1  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.536  | -1.1  | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.476  | -1.0  | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.932  | -3.9  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.764  | -7.5  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.110  | -6.2  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.242  | -8.5  | 103   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.912  | 0.2   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.366  | 1.3   | 102   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.334  | -8.7  | 103   | 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 : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.000 | 4.0  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.138 | -0.3 | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.512 | 7.0  | 100   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.283 | 5.4  | 103   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.138 | 1.7  | 103   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.056 | 5.9  | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.735 | 6.5  | 102   | 0.00     |

(#) = Out of Range

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