

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX062819\  
 Data File : VX010575.D  
 Acq On : 29 Jun 2019 07:45  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 01 04:04:42 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 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   | 74    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.404  | 11.2  | 68    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.545  | 10.9  | 69    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.272  | 11.5# | 70    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.710  | 4.6   | 76    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.369  | 1.3   | 76    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.160  | 1.7   | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.309  | -0.6  | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.742  | 6.5   | 72    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.033  | 1.9   | 70    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 261.006 | -4.4  | 81    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.946  | 6.1#  | 71    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 269.188 | -7.7  | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.128  | 7.7   | 68    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 264.492 | -5.8  | 79    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 224.972 | 10.0  | 64    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 38.750  | 22.5# | 59    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.635  | -9.3  | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.630  | -1.3  | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.333  | 1.3   | 75    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.896  | 6.2   | 72    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.929  | -1.9  | 77    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 248.757 | 0.5   | 72    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.818  | 0.4   | 75    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.615 | -1.8  | 74    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 26.026  | 47.9# | 40    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.194  | 3.6   | 73    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.867  | 2.3   | 75    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 262.063 | -4.8  | 78    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.080  | -0.2# | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.297  | 7.4   | 70    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.102  | 1.8   | 73    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.629  | -1.3  | 75    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.657  | 0.7   | 74    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.771  | 8.5   | 72    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.134  | -4.3  | 78    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.867  | 8.3   | 70    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 42.739  | 14.5  | 67    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.504  | 5.0   | 73    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.972  | -1.9  | 78    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.288  | -2.6  | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.517  | -1.0  | 77    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.135  | 5.7   | 73    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.034  | 1.9#  | 76    | 0.00     |

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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   | 48.935   | 2.1   | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.976   | 4.0   | 72    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.813   | -3.6  | 77    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1083.181 | -8.3  | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.967   | 4.1   | 72    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 266.253  | -6.5  | 80    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.522   | 5.0#  | 73    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 42.979   | 14.0  | 64    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 44.399   | 11.2  | 66    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.400   | -0.8  | 76    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.219   | -0.4  | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.885   | 0.2   | 76    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 238.743  | 4.5   | 70    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.848  | -4.7  | 78    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.388   | 5.2   | 71    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.062   | 1.9   | 74    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.502   | 1.0   | 74    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.583   | -1.2  | 79    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.305   | 3.4   | 74    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.948   | 2.1   | 72    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.653   | 2.7#  | 73    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.248   | 2.8   | 73    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.898   | 2.2   | 74    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.093   | -0.2  | 74    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.697   | 6.6   | 66    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 77    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.241   | 5.5   | 75    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.164   | -4.3  | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.026   | 1.9   | 77    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.958   | 2.1   | 76    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 46.577   | 6.8   | 74    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.619   | 4.8   | 73    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.652   | 4.7   | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 47.729   | 4.5   | 74    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 36.005   | 28.0# | 55    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.055   | 3.9   | 74    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.701   | 6.6   | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 48.132   | 3.7   | 73    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.424   | 5.2   | 73    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.492   | 5.0   | 73    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.757   | 6.5   | 74    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.507   | 9.0   | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.794   | 6.4   | 71    | 0.00     |

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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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 44.990 | 10.0 | 67    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.367 | 5.3  | 75    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.826 | 4.3  | 77    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.713 | 6.6  | 73    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.080 | 9.8  | 70    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.198 | 1.6  | 75    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.950 | 4.1  | 74    | 0.00     |

(#) = Out of Range

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