

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU092818\  
 Data File : VU027282.D  
 Acq On : 28 Sep 2018 19:21  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 29 01:04:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 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   | 120   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.293  | 7.4   | 113   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 39.787  | 20.4# | 102   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.658  | 12.7# | 107   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 37.177  | 25.6# | 99    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 43.140  | 13.7  | 106   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 43.045  | 13.9  | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.945  | 10.1  | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.490  | 13.0  | 109   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 10.364  | 79.3# | 25    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 224.124 | 10.4  | 110   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.354  | 9.3#  | 112   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 201.605 | 19.4  | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.295  | 1.4   | 118   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 235.279 | 5.9   | 111   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 222.610 | 11.0  | 103   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.838  | 8.3   | 114   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.250  | -2.5  | 122   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.655  | -1.3  | 119   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 43.494  | 13.0  | 111   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.213  | 5.6   | 112   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.428  | -0.9  | 115   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 251.892 | -0.8  | 114   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.426  | 5.1   | 114   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 228.764 | 8.5   | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.744  | 8.5   | 111   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.883  | 2.2   | 116   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.050  | 7.9   | 107   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.953 | 1.6   | 113   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.334  | 9.3#  | 110   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.716  | 2.6   | 116   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.406  | 5.2   | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.758  | 14.5  | 103   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 120   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.675  | 8.7   | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.472  | 3.1   | 116   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.195  | 7.6   | 110   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.707  | 8.6   | 109   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.752  | -5.5  | 117   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.145  | 5.7   | 113   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.920  | -1.8  | 114   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.052  | 7.9   | 108   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.393  | -2.8  | 119   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.354  | -0.7  | 119   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.078  | 3.8#  | 114   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 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   | 46.896  | 6.2   | 112   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 46.117  | 7.8   | 111   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.019  | 6.0   | 115   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 808.110 | 19.2  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 44.312  | 11.4  | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.121 | -0.0  | 112   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.567  | -3.1# | 115   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.076  | -2.2  | 115   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.395  | -0.8  | 114   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.638  | 4.7   | 111   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.201  | 3.6   | 122   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.560  | 2.9   | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 218.649 | 12.5  | 105   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 244.132 | 2.3   | 111   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.515  | 3.0   | 113   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.478  | 3.0   | 113   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.085  | 1.8   | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 116   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.008  | 4.0   | 115   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 47.578  | 4.8   | 115   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.232  | 1.5   | 114   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.128  | -8.3# | 119   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.847 | -0.8  | 118   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.775  | -9.5  | 118   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.721  | 4.6   | 115   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.801  | -3.6  | 119   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 114   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.936  | -7.9  | 116   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.559  | -5.1  | 117   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 43.605  | 12.8  | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.823  | 12.4  | 103   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.247  | -0.5  | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.275  | -8.5  | 112   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.454  | -0.9  | 112   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.559  | -7.1  | 112   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.575  | 10.8  | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.335  | -2.7  | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.094  | -6.2  | 116   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.208  | -10.4 | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.148  | -8.3  | 114   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.222  | 1.6   | 113   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.535  | 0.9   | 114   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.164  | 7.7   | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.138  | 5.7   | 112   | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 45.355 | 9.3  | 109   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.497 | 7.0  | 112   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.500 | 3.0  | 113   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.114 | -8.2 | 117   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.668 | 0.7  | 114   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.892 | 0.2  | 116   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.433 | -4.9 | 113   | 0.00     |

(#) = Out of Range

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