

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX062718\  
 Data File : VX002928.D  
 Acq On : 27 Jun 2018 10:11  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 28 03:25:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 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    | 101   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.844  | 4.3    | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.432  | 1.1    | 100   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.224  | 9.6#   | 101   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 63.077  | -26.2# | 133   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.908  | -1.8   | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.105  | 3.8    | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.031  | 5.9    | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.156  | 3.7    | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.220  | 3.6    | 109   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 215.839 | 13.7   | 90    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.569  | 6.9#   | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 224.685 | 10.1   | 95    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.498  | 5.0    | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 230.699 | 7.7    | 96    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 265.295 | -6.1   | 111   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.295  | 11.4   | 98    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.397  | -0.8   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.672  | 4.7    | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.423  | 7.2    | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.832  | 8.3    | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.641  | 2.7    | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 240.184 | 3.9    | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.955  | 4.1    | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 240.751 | 3.7    | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.450  | 1.1    | 104   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.601  | 4.8    | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.684  | -1.4   | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 227.875 | 8.8    | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.936  | 2.1#   | 103   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.006  | 4.0    | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.199  | 1.6    | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.345  | 3.3    | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.636  | -3.3   | 103   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.247  | -0.5   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 48.391  | 3.2    | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.907  | -1.8   | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.447  | -2.9   | 104   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.206  | -0.4   | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.164  | 1.7    | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.139  | 1.7    | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.357  | 3.3    | 98    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.184  | -0.4   | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.822  | -1.6#  | 106   | 0.00     |

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 VSTDCCC050

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 QLast Update : Mon Jun 25 14:38:05 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   | 49.745  | 0.5   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.393  | -4.8  | 102   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.462  | -0.9  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 910.554 | 8.9   | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.623  | -3.2  | 102   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.419 | -0.2  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.504  | -3.0# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.437  | -6.9  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.612  | -5.2  | 101   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.015  | -2.0  | 102   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.537  | -3.1  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.807  | -1.6  | 102   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 263.515 | -5.4  | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.516 | -2.6  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.610  | -7.2  | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.249  | -2.5  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.650  | -5.3  | 104   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.923  | 0.2   | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.548  | 0.9   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.061  | -2.1  | 102   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.578  | -3.2# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.072 | -4.1  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.388  | -2.8  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.785  | -5.6  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.724  | 8.6   | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 100   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.917  | -1.8  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.616  | 8.8   | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.830  | 4.3   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.603  | 2.8   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.854  | 2.3   | 102   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.021  | -4.0  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.345  | -0.7  | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.295  | -4.6  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.086  | 7.8   | 102   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.713  | -1.4  | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.348  | -2.7  | 104   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.757  | -3.5  | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.116  | -4.2  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.484  | -7.0  | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.964  | 0.1   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.544  | 0.9   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.839  | -7.7  | 108   | 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 | 53.007 | -6.0 | 105   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.901 | 0.2  | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.811 | 4.4  | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.524 | -5.0 | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.007 | -6.0 | 108   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.696 | -3.4 | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.787 | -3.6 | 104   | 0.00     |

(#) = Out of Range

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