

Data Path : W:\HPCHEM1\MSVOA X\Data\VX032618\  
 Data File : VX000434.D  
 Acq On : 26 Mar 2018 11:07  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 27 07:00:47 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 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   | 122   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.522  | 1.0   | 124   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 37.192  | 25.6# | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.215  | 5.6#  | 117   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 36.703  | 26.6# | 81    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.947  | -1.9  | 110   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.077  | 9.8   | 113   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 44.790  | 10.4  | 113   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.271  | 7.5   | 119   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 24.716  | 50.6# | 54    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 225.990 | 9.6   | 109   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.857  | 10.3# | 108   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 196.391 | 21.4# | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.314  | 7.4   | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 224.280 | 10.3  | 112   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 253.968 | -1.6  | 126   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.156  | 11.7  | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.886  | 6.2   | 115   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 45.269  | 9.5   | 111   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 42.697  | 14.6  | 109   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 43.112  | 13.8  | 109   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.206  | -6.4  | 141   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 268.684 | -7.5  | 126   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.003  | 8.0   | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 241.649 | 3.3   | 117   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.156  | 3.7   | 112   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.511  | 9.0   | 111   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.130  | -0.3  | 111   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 243.986 | 2.4   | 115   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.716  | -1.4# | 117   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.387  | 3.2   | 118   | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.249  | -2.5  | 121   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.203  | -0.4  | 115   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 116   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.338  | -2.7  | 114   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.251  | 3.5   | 117   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.971  | 4.1   | 113   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.820  | 0.4   | 117   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.709  | -3.4  | 124   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.737  | 0.5   | 117   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.354  | 5.3   | 117   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.321  | -0.6  | 119   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.997  | -4.0  | 120   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.201  | -0.4  | 124   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.067  | -2.1# | 118   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 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   | 49.561   | 0.9   | 119   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.658   | -9.3  | 123   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.570   | -3.1  | 118   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1008.237 | -0.8  | 118   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.652   | 2.7   | 115   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 254.652  | -1.9  | 119   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.329   | 1.3#  | 119   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.682   | -7.4  | 123   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.687   | -7.4  | 121   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.299   | -2.6  | 122   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.164   | -2.3  | 119   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.148   | -0.3  | 120   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 252.557  | -1.0  | 114   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.938  | -4.8  | 123   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.903   | 6.2   | 121   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.020   | -2.0  | 119   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 46.577   | 6.8   | 117   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 118   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.246   | 5.5   | 118   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.036   | -0.1  | 121   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.138   | -4.3  | 119   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.573   | -3.1# | 121   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.042  | -7.0  | 126   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.668   | -5.3  | 123   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.999   | -8.0  | 122   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 46.639   | 6.7   | 125   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 129   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.082   | 1.8   | 126   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.309   | -4.6  | 120   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.755   | 2.5   | 124   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.483   | 5.0   | 122   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.693   | 10.6  | 122   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.690   | 2.6   | 127   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.455   | 5.1   | 125   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.388   | -2.8  | 128   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.894   | -3.8  | 125   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.733   | 0.5   | 128   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.774   | 0.5   | 128   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.763   | -1.5  | 128   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.495   | -3.0  | 130   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.640   | -5.3  | 131   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.918   | 2.2   | 128   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.747   | 2.5   | 130   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.643   | -3.3  | 131   | 0.00     |

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LabSampleId :  
VSTDCCC050

Quant Time: Mar 27 07:00:47 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.788 | -5.6 | 128   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.744 | 0.5  | 127   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.399 | 1.2  | 125   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.460 | 5.1  | 127   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.819 | 2.4  | 128   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.176 | 1.6  | 124   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.315 | 1.4  | 128   | 0.00     |

(#) = Out of Range

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