

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX120419\  
 Data File : VX013744.D  
 Acq On : 04 Dec 2019 11:49  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 05 01:06:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 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   | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.601  | -1.2  | 100   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.230  | 9.5   | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.124  | 1.8#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.133  | 11.7  | 96    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.979  | 8.0   | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.369  | 1.3   | 105   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.389  | 3.2   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.290  | -0.6  | 106   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.945  | 16.1  | 80    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 207.595 | 17.0  | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.740  | 2.5#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 242.902 | 2.8   | 98    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.407  | 3.2   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 233.148 | 6.7   | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 262.002 | -4.8  | 107   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.258  | 5.5   | 100   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.627  | 0.7   | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.622  | 0.8   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.969  | 6.1   | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.983  | 4.0   | 101   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.141  | 1.7   | 100   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 245.794 | 1.7   | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.448  | 1.1   | 102   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 244.631 | 2.1   | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.372  | -2.7  | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.610  | 4.8   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.067  | 3.9   | 96    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 237.324 | 5.1   | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.433  | 5.1#  | 100   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.210  | 3.6   | 101   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.323  | -0.6  | 104   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.244  | 9.5   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 96    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.821  | 2.4   | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.197  | -2.4  | 101   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.643  | -1.3  | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.509  | -9.0  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.674  | -5.3  | 105   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.747  | 0.5   | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.579  | -3.2  | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.959  | -1.9  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.002  | -2.0  | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.369  | -0.7  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.518  | -3.0# | 101   | 0.00     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 05 01:06:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112619W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 26 15:53:00 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.270  | -0.5  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.129  | -8.3  | 104   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.385  | -4.8  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 865.911 | 13.4  | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.472  | 5.1   | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 250.628 | -0.3  | 96    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.635  | -3.3# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.740  | -7.5  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.938  | -7.9  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.799  | -3.6  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.660  | -5.3  | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.688  | -1.4  | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 291.212 | -16.5 | 113   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 250.757 | -0.3  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.865  | -9.7  | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.311  | -2.6  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.451  | 3.1   | 99    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 94    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.892  | -3.8  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.563  | -3.1  | 102   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.080  | -8.2  | 103   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.124  | -6.2# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.725 | -6.7  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.986  | -6.0  | 101   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.058  | -8.1  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 57.118  | -14.2 | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.287  | -4.6  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.570  | -5.1  | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.789  | -1.6  | 100   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.281  | 11.4  | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.348  | -2.7  | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.333  | -6.7  | 103   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.771  | -3.5  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.951  | -7.9  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.769  | -5.5  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.978  | -4.0  | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.993  | -8.0  | 105   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.484  | -7.0  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.339  | -8.7  | 106   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.251  | -8.5  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.147  | -4.3  | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.718  | -1.4  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.502  | -11.0 | 107   | 0.00     |

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Instrument :  
MSVOA\_X  
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Quant Title : SW846 8260  
QLast Update : Tue Nov 26 15:53:00 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 55.314 | -10.6 | 110   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.678 | -3.4  | 102   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.862 | -3.7  | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.129 | -8.3  | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 55.139 | -10.3 | 117   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.327 | -8.7  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.338 | -6.7  | 106   | 0.00     |

(#) = Out of Range

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