

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX022420\  
 Data File : VX015003.D  
 Acq On : 24 Feb 2020 16:26  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 25 01:05:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 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  | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.087  | 5.8  | 83    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.194  | 5.6  | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.932  | 6.1# | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.385  | 7.2  | 94    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 46.246  | 7.5  | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.918  | 8.2  | 87    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.417  | 7.2  | 89    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.951  | 2.1  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.974  | 0.1  | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 247.267 | 1.1  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.920  | 2.2# | 92    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 225.830 | 9.7  | 87    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.648  | 4.7  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 253.778 | -1.5 | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 203.758 | 18.5 | 75    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.494  | 15.0 | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.066  | -8.1 | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.595  | 0.8  | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.063  | 9.9  | 91    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.234  | 9.5  | 86    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.628  | -1.3 | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 261.888 | -4.8 | 95    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.505  | 3.0  | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 236.966 | 5.2  | 87    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.078  | 5.8  | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.129  | 3.7  | 92    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 50.021  | -0.0 | 96    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 258.628 | -3.5 | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.403  | 3.2# | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.047  | 5.9  | 89    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.654  | 4.7  | 90    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.134  | 5.7  | 96    | -0.01    |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0  | 95    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.616  | 0.8  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.425  | 3.2  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.142  | -2.3 | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.406  | 3.2  | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.887  | 4.2  | 89    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.563  | 2.9  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.129  | -8.3 | 96    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.949  | 4.1  | 89    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.556  | -3.1 | 94    | -0.01    |
| 44 TM | Trichloroethene             | 50.000  | 46.591  | 6.8  | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.745  | 0.5# | 92    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX022420\  
 Data File : VX015003.D  
 Acq On : 24 Feb 2020 16:26  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 25 01:05:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 2020  
 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   | 47.856   | 4.3   | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.655   | 0.7   | 92    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.702   | -3.4  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1002.258 | -0.2  | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.407   | 1.2   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 258.985  | -3.6  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.273   | 3.5#  | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.119   | -0.2  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.569   | 0.9   | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.027   | -0.1  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.188   | -4.4  | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.260   | 1.5   | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 253.740  | -1.5  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 250.932  | -0.4  | 89    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.145   | -0.3  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.403   | 3.2   | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.880   | 0.2   | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 42.405   | 15.2  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.176   | 3.6   | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.119   | -2.2  | 93    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.148   | -0.3# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.193   | 0.8   | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.402   | -0.8  | 91    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.041   | -2.1  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.154   | -4.3  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.743   | -3.5  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.068   | -8.1  | 91    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.482   | -3.0  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.471   | -0.9  | 96    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.951   | 2.1   | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.128   | -2.3  | 90    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.690   | -1.4  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.668   | -3.3  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.239   | -4.5  | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.060   | -0.1  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.666   | -7.3  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.483   | -5.0  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.920   | -3.8  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.746   | -3.5  | 91    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.596   | 2.8   | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.223   | 3.6   | 89    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.605   | -1.2  | 89    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX022420\  
Data File : VX015003.D  
Acq On : 24 Feb 2020 16:26  
Operator : JC/SP  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Feb 25 01:05:13 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 10 12:09:20 2020  
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 | 52.793 | -5.6 | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.995 | 2.0  | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.131 | 3.7  | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.244 | 3.5  | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.383 | 1.2  | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.079 | -6.2 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.084 | -0.2 | 88    | 0.00     |

(#) = Out of Range

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