# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW102319\
Data File : VW013684.D
Acq On : 23 Oct 2019 22:43
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Oct 24 08:30:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 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 | 88 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 40.828 | 18.3 | 85 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.287 | 13.4 | 88 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.178 | 3.6# | 89 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.315 | 5.4 | 89 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 48.617 | 2.8 | 88 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.130 | 1.7 | 90 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.932 | -1.9 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.525 | 3.0 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.033 | 1.9 | 87 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 269.336 | -7.7 | 105 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 48.722 | 2.6# | 87 | 0.00 |
| 13 | T | Acrolein | 250.000 | 267.932 | -7.2 | 95 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.495 | 1.0 | 88 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 275.874 | -10.3 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 254.451 | -1.8 | 86 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 49.514 | 1.0 | 88 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 57.183 | -14.4 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 53.838 | -7.7 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.114 | -4.2 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.511 | 1.0 | 88 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.341 | -0.7 | 89 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 259.138 | -3.7 | 91 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.021 | 2.0 | 87 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 267.654 | -7.1 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.335 | 5.3 | 88 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.328 | 1.3 | 87 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 52.445 | -4.9 | 86 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 281.000 | -12.4 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.836 | 2.3# | 89 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.550 | 4.9 | 88 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 51.047 | -2.1 | 91 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 54.913 | -9.8 | 92 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.793 | -3.6 | 86 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.632 | 0.7 | 89 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.869 | -7.7 | 103 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.404 | -0.8 | 90 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.782 | -1.6 | 89 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.400 | 1.2 | 88 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 49.817 | 0.4 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.812 | -1.6 | 91 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.382 | -6.8 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.670 | 2.7 | 87 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.378 | 1.2# | 88 | 0.00 |

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Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_W
**LabSampleId :** VSTDCCC050

Quant Time: Oct 24 08:30:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 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 | 51.828 | -3.7 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.232 | -0.5 | 89 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.100 | -10.2 | 97 | 0.00 |
| 49 | T | 1,4-Dioxane | 1000.000 | 1115.314 | -11.5 | 106 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.627 | -5.3 | 86 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 275.368 | -10.1 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.956 | 2.1# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 50.802 | -1.6 | 89 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.621 | 0.8 | 87 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.360 | -2.7 | 94 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.120 | -8.2 | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.429 | -2.9 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 290.748 | -16.3 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 274.848 | -9.9 | 97 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.582 | -3.2 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.625 | -5.3 | 96 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.297 | -4.6 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.153 | -4.3 | 94 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.180 | 1.6 | 88 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.746 | 0.5 | 88 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.828 | 0.3# | 88 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.067 | 0.9 | 88 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.367 | 1.3 | 87 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.110 | -2.2 | 89 | 0.00 |
| 71 | P | Bromoform | 50.000 | 53.408 | -6.8 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 88 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.064 | -2.1 | 89 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.315 | -10.6 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.231 | -6.5 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 55.653 | -11.3 | 104 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.768 | 0.5 | 88 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.280 | -0.6 | 88 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.670 | -1.3 | 89 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.032 | -0.1 | 87 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.332 | -6.7 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.175 | 1.7 | 86 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.609 | -1.2 | 88 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.172 | -0.3 | 87 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.646 | -1.3 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.166 | -0.3 | 87 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.503 | 1.0 | 87 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.446 | 3.1 | 87 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.915 | 0.2 | 86 | 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 | 50.107 | -0.2 | 87 | 0.00 |
| 91 T | 1,2-Dichlorobenzene | 50.000 | 50.303 | -0.6 | 89 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.484 | -7.0 | 100 | 0.00 |
| 93 T | 1,2,4-Trichlorobenzene | 50.000 | 48.864 | 2.3 | 85 | 0.00 |
| 94 T | Hexachlorobutadiene | 50.000 | 48.206 | 3.6 | 86 | 0.00 |
| 95 T | Naphthalene | 50.000 | 54.819 | -9.6 | 93 | 0.00 |
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.968 | 0.1 | 87 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6