



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Arizona Department of Weights and Measures Metrology Laboratory

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

MECHANICAL

NVLAP Code: 20/M08

Mass - Metric

<i>Range</i>	<i>Best Uncertainty (\pm)</i> ^{note 1}	<i>Remarks</i>
500 kg	3.0 g	Echelon II
250 kg	2.9 g	Echelon II
30 kg	12 mg	Echelon II
25 kg	12 mg	Echelon II
20 kg	10 mg	Echelon II
10 kg	1.5 mg	Echelon II
5 kg	0.81 mg	Echelon II
4 kg	0.61 mg	Echelon II
3 kg	0.61 mg	Echelon II
2 kg	0.52 mg	Echelon II
1 kg	0.064 mg	Echelon II
500 g	0.051 mg	Echelon II
300 g	0.048 mg	Echelon II
200 g	0.046 mg	Echelon II
100 g	0.020 mg	Echelon II
50 g	0.015 mg	Echelon II

2010-10-01 through 2011-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



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<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
30 g	0.014 mg	Echelon II
20 g	0.013 mg	Echelon II
10 g	0.013 mg	Echelon II
5 g	0.0019 mg	Echelon II
3 g	0.0015 mg	Echelon II
2 g	0.0012 mg	Echelon II
1 g	0.0013 mg	Echelon II
500 mg	0.80 µg	Echelon II
300 mg	0.70 µg	Echelon II
200 mg	0.65 µg	Echelon II
100 mg	0.56 µg	Echelon II
50 mg	0.54 µg	Echelon II
30 mg	0.54 µg	Echelon II
20 mg	0.53 µg	Echelon II
10 mg	0.55 µg	Echelon II
5 mg	0.53 µg	Echelon II
3 mg	0.54 µg	Echelon II
2 mg	0.53 µg	Echelon II
1 mg	0.55 µg	Echelon II

Mass – Avoirdupois

<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
2500 lb	0.080 lb	Echelon II
2000 lb	0.079 lb	Echelon II
1000 lb	0.0064 lb	Echelon II
500 lb	0.0064 lb	Echelon II
50 lb	12 mg	Echelon II
30 lb	11 mg	Echelon II
25 lb	10 mg	Echelon II
20 lb	2.8 mg	Echelon II
10 lb	1.5 mg	Echelon II
5 lb	0.80 mg	Echelon II
4 lb	0.61 mg	Echelon II

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Range	Best Uncertainty (\pm) ^{note 1}	Remarks
3 lb	0.60 mg	Echelon II
2 lb	0.32 mg	Echelon II
1 lb	0.058 mg	Echelon II
0.5 lb	0.047 mg	Echelon II
0.3 lb	0.048 mg	Echelon II
0.2 lb	0.017 mg	Echelon II
0.1 lb	0.015 mg	Echelon II
0.05 lb	0.014 mg	Echelon II
0.03 lb	0.014 mg	Echelon II
0.02 lb	0.013 mg	Echelon II
0.01 lb	0.0023 mg	Echelon II
0.005 lb	0.0015 mg	Echelon II
0.003 lb	0.0014 mg	Echelon II
0.002 lb	0.0010 mg	Echelon II
0.001 lb	0.0008 mg	Echelon II
8 oz	0.047 mg	Echelon II
4 oz	0.047 mg	Echelon II
2 oz	0.016 mg	Echelon II
1 oz	0.014 mg	Echelon II
1/2 oz	0.014 mg	Echelon II
1/4 oz	0.013 mg	Echelon II
1/8 oz	0.0019 mg	Echelon II
1/16 oz	0.0015 mg	Echelon II
1/32 oz	0.0010 mg	Echelon II

Mass – Metric

Range	Best Uncertainty (\pm) ^{note 1}	Remarks
500 kg	5.3 g	Echelon III
250 kg	5.3 g	Echelon III
50 kg	50 mg	Echelon III
25 kg	41 mg	Echelon III
20 kg	41 mg	Echelon III
10 kg	39 mg	Echelon III
5 kg	4.6 mg	Echelon III

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<i>Range</i>	<i>Best Uncertainty (\pm) ^{note 1}</i>	<i>Remarks</i>
4 kg	5.8 mg	Echelon III
3 kg	4.6 mg	Echelon III
2.5 kg	4.6 mg	Echelon III
2 kg	4.6 mg	Echelon III
1 kg	2.9 mg	Echelon III
524.20 g	2.9 mg	Echelon III
500 g	2.9 mg	Echelon III
464.08 g	2.9 mg	Echelon III
300 g	2.9 mg	Echelon III
250 g	2.9 mg	Echelon III
209.68 g	2.9 mg	Echelon III
200 g	0.17 mg	Echelon III
185.63 g	0.16 mg	Echelon III
104.84 g	0.15 mg	Echelon III
100 g	0.15 mg	Echelon III
92.82 g	0.16 mg	Echelon III
50 g	0.16 mg	Echelon III
41.94 g	0.16 mg	Echelon III
30 g	0.15 mg	Echelon III
25 g	0.15 mg	Echelon III
20.97 g	0.15 mg	Echelon III
20 g	0.15 mg	Echelon III
10 g	0.15 mg	Echelon III
5 g	0.014 mg	Echelon III
3 g	0.014 mg	Echelon III
2 g	0.014 mg	Echelon III
1 g	0.014 mg	Echelon III
500 mg	0.014 mg	Echelon III
300 mg	0.014 mg	Echelon III
200 mg	0.014 mg	Echelon III
100 mg	0.013 mg	Echelon III
50 mg	0.013 mg	Echelon III
30 mg	0.013 mg	Echelon III

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<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
20 mg	0.013 mg	Echelon III
10 mg	0.013 mg	Echelon III
5 mg	0.013 mg	Echelon III
3 mg	0.013 mg	Echelon III
2 mg	0.013 mg	Echelon III
1 mg	0.013 mg	Echelon III

Mass – Avoirdupois

<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
5000 lb	0.090 lb	Echelon III
3000 lb	0.090 lb	Echelon III
2500 lb	0.090 lb	Echelon III
2000 lb	0.090 lb	Echelon III
1000 lb	0.007 lb	Echelon III
500 lb	0.007 lb	Echelon III
100 lb	50 mg	Echelon III
50 lb	40 mg	Echelon III
30 lb	40 mg	Echelon III
25 lb	39 mg	Echelon III
20 lb	39 mg	Echelon III
18 lb	40 mg	Echelon III
15 lb	39 mg	Echelon III
10 lb	5.3 mg	Echelon III
5 lb	4.7 mg	Echelon III
4 lb	4.6 mg	Echelon III
3 lb	4.6 mg	Echelon III
2 lb	3.0 mg	Echelon III
1 lb	2.9 mg	Echelon III
0.5 lb	2.9 mg	Echelon III
0.3 lb	0.016 mg	Echelon III
0.2 lb	0.016 mg	Echelon III

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<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
0.1 lb	0.016 mg	Echelon III
0.05 lb	0.015 mg	Echelon III
0.03 lb	0.015 mg	Echelon III
0.02 lb	0.015 mg	Echelon III
0.01 lb	0.015 mg	Echelon III
0.005 lb	0.014 mg	Echelon III
0.003 lb	0.014 mg	Echelon III
0.002 lb	0.014 mg	Echelon III
0.001 lb	0.014 mg	Echelon III
100 oz	7.8 mg	Echelon III
80 oz	7.8 mg	Echelon III
40 oz	6.6 mg	Echelon III
20 oz	6.6 mg	Echelon III
10 oz	6.6 mg	Echelon III
8 oz	2.9 mg	Echelon III
5 oz	6.6 mg	Echelon III
4 oz	0.16 mg	Echelon III
2 oz	0.16 mg	Echelon III
1 oz	0.15 mg	Echelon III
1/2 oz	0.15 mg	Echelon III
1/4 oz	0.15 mg	Echelon III
1/8 oz	0.015 mg	Echelon III
1/16 oz	0.015 mg	Echelon III
1/32 oz	0.014 mg	Echelon III
0.5 oz	0.15 mg	Echelon III
0.2 oz	0.15 mg	Echelon III
0.1 oz	0.15 mg	Echelon III
0.05 oz	0.15 mg	Echelon III

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Mass – Weight Carts

<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
5000 lb	0.099 lb	Echelon III
3000 lb	0.099 lb	Echelon III
2500 lb	0.099 lb	Echelon III
2000 lb	0.099 lb	Echelon III

NVLAP Code: 20/M12

Volume

<i>Range</i>	<i>Best Uncertainty (±) ^{note 1}</i>	<i>Remarks</i>
1044 gal	21 in ³	Volume Transfer
500 gal	12 in ³	Volume Transfer
200 gal	8.0 in ³	Volume Transfer
100 gal	4.7 in ³	Volume Transfer
50 gal	2.8 in ³	Volume Transfer
15 gal	3.8 in ³	Volume Transfer
5 gal	0.38 in ³	Volume Transfer
1 gal	0.39 in ³	Volume Transfer
100 gal	5.8 in ³	LPG Volume Transfer
20 gal	2.3 in ³	LPG Volume Transfer
100 gal	0.93 in ³	Volume Gravimetric
50 gal	0.73 in ³	Volume Gravimetric
25 gal	0.79 in ³	Volume Gravimetric
15 gal	0.07 in ³	Volume Gravimetric
5 gal	0.05 in ³	Volume Gravimetric
1 gal	0.06 in ³	Volume Gravimetric
20 gal	0.99 in ³	SVP - Volume Gravimetric

1. Represents an expanded uncertainty using a coverage factor, k = 2, at an approximate level of confidence of 95 %.

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