



**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 (<math>\pm</math>) <sup>note 1</sup></i>	<i>Remarks</i>
500 kg	4.4 g	Echelon II
250 kg	4.4 g	Echelon II
30 kg	13 mg	Echelon II
25 kg	12b mg	Echelon II
20 kg	12 mg	Echelon II
10 kg	4.6 mg	Echelon II
5 kg	3.8 mg	Echelon II
4 kg	3.5 mg	Echelon II
3 kg	3.5 mg	Echelon II
2 kg	3.3 mg	Echelon II
1 kg	0.082 mg	Echelon II
500 g	0.070 mg	Echelon II
300 g	0.066 mg	Echelon II
200 g	0.065 mg	Echelon II
100 g	0.022 mg	Echelon II
50 g	0.028 mg	Echelon II

2008-10-01 through 2009-09-30

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*



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30 g	0.026 mg	Echelon II
20 g	0.025 mg	Echelon II
10 g	0.010 mg	Echelon II
5 g	0.0051 mg	Echelon II
3 g	0.0043 mg	Echelon II
2 g	0.0039 mg	Echelon II
1 g	0.0038 mg	Echelon II
500 mg	0.0032 mg	Echelon II
300 mg	0.0030 mg	Echelon II
200 mg	0.0029 mg	Echelon II
100 mg	0.0014 mg	Echelon II
50 mg	0.0013 mg	Echelon II
30 mg	0.0013 mg	Echelon II
20 mg	0.0013 mg	Echelon II
10 mg	0.0013 mg	Echelon II
5 mg	0.0013 mg	Echelon II
3 mg	0.0013 mg	Echelon II
2 mg	0.0013 mg	Echelon II
1 mg	0.0013 mg	Echelon II
Mass – Avoirdupois		
2500 lb	0.071 lb	Echelon II
2000 lb	0.068 lb	Echelon II
1000 lb	0.0097 lb	Echelon II
500 lb	0.0097 lb	Echelon II
50 lb	13 mg	Echelon II
30 lb	12 mg	Echelon II
25 lb	10 mg	Echelon II
20 lb	5.3 mg	Echelon II
10 lb	4.2 mg	Echelon II
5 lb	3.5 mg	Echelon II
4 lb	3.3 mg	Echelon II
3 lb	3.3 mg	Echelon II
2 lb	0.28 mg	Echelon II
1 lb	0.077 mg	Echelon II

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0.5 lb	0.065 mg	Echelon II
0.3 lb	0.035 mg	Echelon II
0.2 lb	0.030 mg	Echelon II
0.1 lb	0.027 mg	Echelon II
0.05 lb	0.025 mg	Echelon II
0.03 lb	0.025 mg	Echelon II
0.02 lb	0.0095 mg	Echelon II
0.01 lb	0.0048 mg	Echelon II
0.005 lb	0.0040 mg	Echelon II
0.003 lb	0.0039 mg	Echelon II
0.002 lb	0.0034 mg	Echelon II
0.001 lb	0.0032 mg	Echelon II
8 oz	0.065 mg	Echelon II
4 oz	0.035 mg	Echelon II
2 oz	0.028 mg	Echelon II
1 oz	0.025 mg	Echelon II
1/2 oz	0.025 mg	Echelon II
1/4 oz	0.023 mg	Echelon II
1/8 oz	0.0045 mg	Echelon II
1/16 oz	0.0040 mg	Echelon II
1/32 oz	0.0034 mg	Echelon II
Mass – Metric		
500 kg	8.2 g	Echelon III
250 kg	7.8 g	Echelon III
50 kg	55 mg	Echelon III
25 kg	46 mg	Echelon III
20 kg	46 mg	Echelon III
10 kg	31 mg	Echelon III
5 kg	5.8 mg	Echelon III
4 kg	6.5 mg	Echelon III
3 kg	5.6 mg	Echelon III
2.5 kg	5.6 mg	Echelon III
2 kg	5.6 mg	Echelon III
1 kg	4.4 mg	Echelon III
524.20 g	4.4 mG	Echelon III

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## CALIBRATION LABORATORIES

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500 g	4.4 mg	Echelon III
464.08 g	4.4 mg	Echelon III
300 g	4.4 mg	Echelon III
250 g	4.4 mg	Echelon III
209.68 g	4.4 mg	Echelon III
200 g	0.13 mg	Echelon III
185.63 g	0.12 mg	Echelon III
104.84 g	0.11 mg	Echelon III
100 g	0.11 mg	Echelon III
92.82 g	0.11 mg	Echelon III
50 g	0.11 mg	Echelon III
41.94 g	0.11 mg	Echelon III
30 g	0.11 mg	Echelon III
25 g	0.11 mg	Echelon III
20.97 g	0.11 mg	Echelon III
20 g	0.11 mg	Echelon III
10 g	0.11 mg	Echelon III
5 g	0.10 mg	Echelon III
3 g	0.012 mg	Echelon III
2 g	0.012 mg	Echelon III
1 g	0.011 mg	Echelon III
500 mg	0.011 mg	Echelon III
300 mg	0.011 mg	Echelon III
200 mg	0.011 mg	Echelon III
100 mg	0.010 mg	Echelon III
50 mg	0.010 mg	Echelon III
30 mg	0.010 mg	Echelon III
20 mg	0.010 mg	Echelon III
10 mg	0.010 mg	Echelon III
5 mg	0.010 mg	Echelon III
3 mg	0.010 mg	Echelon III
2 mg	0.010 mg	Echelon III
1 mg	0.010 mg	Echelon III

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Mass – Avoirdupois

5000 lb	0.15 lb	Echelon III
3000 lb	0.084 lb	Echelon III
2500 lb	0.12 lb	Echelon III
2000 lb	0.12 lb	Echelon III
1000 lb	0.010 lb	Echelon III
500 lb	0.010 lb	Echelon III
100 lb	55 mg	Echelon III
50 lb	47 mg	Echelon III
30 lb	33 mg	Echelon III
25 lb	45 mg	Echelon III
20 lb	32 mg	Echelon III
18 lb	33 mg	Echelon III
15 lb	32 mg	Echelon III
10 lb	6.1 mg	Echelon III
5 lb	5.7 mg	Echelon III
4 lb	5.6 mg	Echelon III
3 lb	5.6 mg	Echelon III
2 lb	4.4 mg	Echelon III
1 lb	4.4 mg	Echelon III
0.5 lb	4.4 mg	Echelon III
0.3 lb	0.11 mg	Echelon III
0.2 lb	0.11 mg	Echelon III
0.1 lb	0.11 mg	Echelon III
0.05 lb	0.11 mg	Echelon III
0.03 lb	0.11 mg	Echelon III
0.02 lb	0.10 mg	Echelon III
0.01 lb	0.012 mg	Echelon III
0.005 lb	0.011 mg	Echelon III
0.003 lb	0.011 mg	Echelon III
0.002 lb	0.011 mg	Echelon III
0.001 lb	0.011 mg	Echelon III
100 oz	5.7 mg	Echelon III
80 oz	5.7 mg	Echelon III

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40 oz	5.4 mg	Echelon III
20 oz	4.4 mg	Echelon III
10 oz	4.4 mg	Echelon III
8 oz	4.4 mg	Echelon III
5 oz	4.4 mg	Echelon III
4 oz	0.11 mg	Echelon III
2 oz	0.11 mg	Echelon III
1 oz	0.11 mg	Echelon III
1/2 oz	0.11 mg	Echelon III
1/4 oz	0.11 mg	Echelon III
1/8 oz	0.012 mg	Echelon III
1/16 oz	0.011 mg	Echelon III
1/32 oz	0.011 mg	Echelon III
0.5 oz	0.11 mg	Echelon III
0.2 oz	0.11 mg	Echelon III
0.1 oz	0.012 mg	Echelon III
0.05 oz	0.011 mg	Echelon III

**NVLAP Code:** 20/M12

Volume

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>) in inches<sup>3</sup> note 1</b>	<b>Remarks</b>
1044 gal	17	Volume Transfer
500 gal	11	Volume Transfer
200 gal	7.1	Volume Transfer
100 gal	5.1	Volume Transfer
50 gal	3.1	Volume Transfer
15 gal	0.62	Volume Transfer
5 gal	0.45	Volume Transfer
1 gal	0.44	Volume Transfer
100 gal	2.07	Volume Gravimetric
50 gal	1.05	Volume Gravimetric
25 gal	0.76	Volume Gravimetric
15 gal	0.49	Volume Gravimetric

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5 gal  
20 gal

0.15  
1.6

Volume Gravimetric  
SVP - Volume Gravimetric

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

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