



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Arizona Department of Weights and Measures Metrology Laboratory

4425 West Olive Avenue, Suite 134
Glendale, AZ 85302-3844

Mrs. Kelleen K. Larson

Phone: 602-771-4939 Fax: 623-463-0440

E-mail: klarson@azdwm.gov

URL: <http://www.azdwm.gov>

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 (±) ^{note 1}</i>	<i>Remarks</i>
500 kg	0.9 g	Echelon II
250 kg	0.7 g	Echelon II
30 kg	11 mg	Echelon II
25 kg	11 mg	Echelon II
20 kg	9.3 mg	Echelon II
10 kg	1.5 mg	Echelon II
5 kg	0.80 mg	Echelon II
4 kg	0.61 mg	Echelon II
3 kg	0.61 mg	Echelon II
2 kg	0.53 mg	Echelon II
1 kg	0.071 mg	Echelon II
500 g	0.060 mg	Echelon II
300 g	0.057 mg	Echelon II
200 g	0.056 mg	Echelon II
100 g	0.019 mg	Echelon II
50 g	0.014 mg	Echelon II

2009-10-01 through 2010-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

30 g	0.013 mg	Echelon II
20 g	0.012 mg	Echelon II
10 g	0.012 mg	Echelon II
5 g	0.0021 mg	Echelon II
3 g	0.0017 mg	Echelon II
2 g	0.0015 mg	Echelon II
1 g	0.0016 mg	Echelon II
500 mg	0.0012 mg	Echelon II
300 mg	0.0011 mg	Echelon II
200 mg	0.0011 mg	Echelon II
100 mg	0.00064 mg	Echelon II
50 mg	0.00062 mg	Echelon II
30 mg	0.00063 mg	Echelon II
20 mg	0.00062 mg	Echelon II
10 mg	0.00063 mg	Echelon II
5 mg	0.00062 mg	Echelon II
3 mg	0.00063 mg	Echelon II
2 mg	0.00062 mg	Echelon II
1 mg	0.00063 mg	Echelon II
Mass – Avoirdupois		
2500 lb	0.10 lb	Echelon II
2000 lb	0.10 lb	Echelon II
1000 lb	0.0016 lb	Echelon II
500 lb	0.0016 lb	Echelon II
50 lb	11 mg	Echelon II
30 lb	9.8 mg	Echelon II
25 lb	9.3 mg	Echelon II
20 lb	2.8 mg	Echelon II
10 lb	1.4 mg	Echelon II
5 lb	0.79 mg	Echelon II
4 lb	0.61 mg	Echelon II
3 lb	0.61 mg	Echelon II
2 lb	0.32 mg	Echelon II
1 lb	0.066 mg	Echelon II

2009-10-01 through 2010-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

0.5 lb	0.057 mg	Echelon II
0.3 lb	0.057 mg	Echelon II
0.2 lb	0.016 mg	Echelon II
0.1 lb	0.014 mg	Echelon II
0.05 lb	0.012 mg	Echelon II
0.03 lb	0.013 mg	Echelon II
0.02 lb	0.012 mg	Echelon II
0.01 lb	0.0024 mg	Echelon II
0.005 lb	0.0017 mg	Echelon II
0.003 lb	0.0017 mg	Echelon II
0.002 lb	0.0013 mg	Echelon II
0.001 lb	0.0012 mg	Echelon II
8 oz	0.057 mg	Echelon II
4 oz	0.057 mg	Echelon II
2 oz	0.015 mg	Echelon II
1 oz	0.013 mg	Echelon II
1/2 oz	0.013 mg	Echelon II
1/4 oz	0.012 mg	Echelon II
1/8 oz	0.0021 mg	Echelon II
1/16 oz	0.0018 mg	Echelon II
1/32 oz	0.0013 mg	Echelon II
Mass – Metric		
500 kg	4.5 g	Echelon III
250 kg	4.5 g	Echelon III
50 kg	52 g	Echelon III
25 kg	43 mg	Echelon III
20 kg	43 mg	Echelon III
10 kg	41 mg	Echelon III
5 kg	4.0 mg	Echelon III
4 kg	5.2 mg	Echelon III
3 kg	4.0 mg	Echelon III
2.5 kg	4.0 mg	Echelon III
2 kg	4.0 mg	Echelon III
1 kg	2.1 mg	Echelon III
524.20 g	2.1 mg	Echelon III

2009-10-01 through 2010-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

500 g	2.1 mg	Echelon III
464.08 g	2.1 mg	Echelon III
300 g	2.1 mg	Echelon III
250 g	2.1 mg	Echelon III
209.68 g	2.1 mg	Echelon III
200 g	0.15 mg	Echelon III
185.63 g	0.14 mg	Echelon III
104.84 g	0.13 mg	Echelon III
100 g	0.13 mg	Echelon III
92.82 g	0.14 mg	Echelon III
50 g	0.14 mg	Echelon III
41.94 g	0.14 mg	Echelon III
30 g	0.13 mg	Echelon III
25 g	0.13 mg	Echelon III
20.97 g	0.13 mg	Echelon III
20 g	0.13 mg	Echelon III
10 g	0.13 mg	Echelon III
5 g	0.015 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	0.014mg	Echelon III
50 mg	0.014 mg	Echelon III
30 mg	0.014 mg	Echelon III
20 mg	0.014 mg	Echelon III
10 mg	0.014 mg	Echelon III
5 mg	0.014 mg	Echelon III
3 mg	0.014 mg	Echelon III
2 mg	0.014 mg	Echelon III
1 mg	0.014 mg	Echelon III

2009-10-01 through 2010-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

Mass – Avoirdupois

5000 lb	0.11 lb	Echelon III
3000 lb	0.11 lb	Echelon III
2500 lb	0.11 lb	Echelon III
2000 lb	0.11 lb	Echelon III
1000 lb	0.003 lb	Echelon III
500 lb	0.003 lb	Echelon III
100 lb	52 mg	Echelon III
50 lb	42 mg	Echelon III
30 lb	42 mg	Echelon III
25 lb	41 mg	Echelon III
20 lb	41 mg	Echelon III
18 lb	41 mg	Echelon III
15 lb	41 mg	Echelon III
10 lb	4.7 mg	Echelon III
5 lb	4.1 mg	Echelon III
4 lb	4.0 mg	Echelon III
3 lb	4.0 mg	Echelon III
2 lb	2.1 mg	Echelon III
1 lb	2.1 mg	Echelon III
0.5 lb	2.1 mg	Echelon III
0.3 lb	0.014 mg	Echelon III
0.2 lb	0.014 mg	Echelon III
0.1 lb	0.014 mg	Echelon III
0.05 lb	0.013 mg	Echelon III
0.03 lb	0.013 mg	Echelon III
0.02 lb	0.013 mg	Echelon III
0.01 lb	0.015 mg	Echelon III
0.005 lb	0.015 mg	Echelon III
0.003 lb	0.015 mg	Echelon III
0.002 lb	0.014 mg	Echelon III
0.001 lb	0.014 mg	Echelon III
100 oz	5.2 mg	Echelon III
80 oz	5.2 mg	Echelon III

2009-10-01 through 2010-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

40 oz	3.7 mg	Echelon III
20 oz	3.7 mg	Echelon III
10 oz	3.7 mg	Echelon III
8 oz	2.1 mg	Echelon III
5 oz	3.7 mg	Echelon III
4 oz	0.14 mg	Echelon III
2 oz	0.14 mg	Echelon III
1 oz	0.13 mg	Echelon III
1/2 oz	0.13 mg	Echelon III
1/4 oz	0.13 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	0.13 mg	Echelon III
0.2 oz	0.13 mg	Echelon III
0.1 oz	0.13 mg	Echelon III
0.05 oz	0.13 mg	Echelon III

Mass – Weight Carts

5000 lb	0.12 lb	Echelon III
3000 lb	0.12 lb	Echelon III
2500 lb	0.12 lb	Echelon III
2000 lb	0.12 lb	Echelon III

NVLAP Code: 20/M12

Volume

Range	Best Uncertainty (±) in inches³ note 1	Remarks
1044 gal	17	Volume Transfer
500 gal	11	Volume Transfer
200 gal	6.7	Volume Transfer
100 gal	4.8	Volume Transfer
50 gal	2.9	Volume Transfer
15 gal	0.43	Volume Transfer

2009-10-01 through 2010-09-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200381-0

5 gal	0.39	Volume Transfer
1 gal	0.36	Volume Transfer
100 gal	4.5	LPG Volume Transfer
20 gal	1.6	LPG Volume Transfer
100 gal	2.08	Volume Gravimetric
50 gal	1.23	Volume Gravimetric
25 gal	0.79	Volume Gravimetric
15 gal	0.49	Volume Gravimetric
5 gal	0.15	Volume Gravimetric
1 gal	0.14	Volume Gravimetric
20 gal	1.6	SVP - Volume Gravimetric

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

2009-10-01 through 2010-09-30

Effective dates

For the National Institute of Standards and Technology