



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Pennsylvania Standards Laboratory
2221 Forster Street, Room G-44A
Harrisburg, PA 17125-0001
Mr. Paul E. Wolf
Phone: 717-783-1627 Fax: 717-787-3379
E-mail: pwolf@state.pa.us

CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

DIMENSIONAL

NVLAP Code: 20/D13
Surveying Tapes

<i>Range in ft</i>	<i>Best Uncertainty (±) in inches ^{note 1}</i>	<i>Remarks</i>
0 to 16	0.0064	Bench Method
0 to 30	0.012	Bench Method
0 to 45	0.017	Bench Method
0 to 60	0.023	Bench Method
0 to 75	0.028	Bench Method
0 to 84	0.034	Bench Method
0 to 90	0.034	Bench Method
0 to 100	0.040	Bench Method
0 to 105	0.040	Bench Method
0 to 120	0.045	Bench Method
0 to 135	0.051	Bench Method
0 to 150	0.040	Bench Method
0 to 165	0.062	Bench Method
0 to 180	0.068	Bench Method
0 to 184	0.074	Bench Method
0 to 190	0.074	Bench Method
0 to 200	0.079	Bench Method

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

TIME AND FREQUENCY

NVLAP Code: 20/F05

Stopwatches

<i>Range in hours</i>	<i>Best Uncertainty (±) in seconds^{note 1}</i>	<i>Remarks</i>
0 to 24	0.44	Direct Comparison

MECHANICAL

NVLAP Code: 20/M08

Mass - Metric

<i>Range</i>	<i>Best Uncertainty (±)^{note 1}</i>	<i>Remarks</i>
30 kg	11 mg	Echelon II
25 kg	11 mg	Echelon II
20 kg	9.9 mg	Echelon II
10 kg	2.7 mg	Echelon II
5 kg	1.8 mg	Echelon II
3 kg	1.7 mg	Echelon II
2 kg	1.6 mg	Echelon II
1 kg	0.2 mg	Echelon II
500 g	0.12 mg	Echelon II
300 g	0.093 mg	Echelon II
200 g	0.077 mg	Echelon II
100 g	0.046 mg	Echelon II
50 g	0.026 mg	Echelon II
30 g	0.019 mg	Echelon II
20 g	0.017 mg	Echelon II
10 g	0.016 mg	Echelon II
5 g	0.0042 mg	Echelon II
3 g	0.0032 mg	Echelon II
2 g	0.0028 mg	Echelon II
1 g	0.0027 mg	Echelon II
500 mg	0.0016 mg	Echelon II
300 mg	0.0014 mg	Echelon II

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

200 mg	0.0014 mg	Echelon II
100 mg	0.0012 mg	Echelon II
50 mg	0.0013 mg	Echelon II
30 mg	0.0012 mg	Echelon II
20 mg	0.0012 mg	Echelon II
10 mg	0.0013 mg	Echelon II
5 mg	0.0012 mg	Echelon II
3 mg	0.0011 mg	Echelon II
2 mg	0.0011 mg	Echelon II
1 mg	0.0011 mg	Echelon II

Mass – Avoirdupois

50 lb	11 mg	Echelon II
25 lb	8.7 mg	Echelon II
20 lb	3.2 mg	Echelon II
10 lb	2.1 mg	Echelon II
5 lb	1.6 mg	Echelon II
2 lb	0.32 mg	Echelon II
1 lb	0.10 mg	Echelon II
0.5 lb	0.073 mg	Echelon II
0.2 lb	0.026 mg	Echelon II
0.1 lb	0.022 mg	Echelon II
0.05 lb	0.018 mg	Echelon II
0.02 lb	0.015 mg	Echelon II
0.01 lb	0.0056 mg	Echelon II
0.005 lb	0.0035 mg	Echelon II
0.002 lb	0.0026 mg	Echelon II
0.001 lb	0.0026 mg	Echelon II

Mass – Metric

2500 kg	34g	Echelon III
1000 kg	34 g	Echelon III
750 kg	34 g	Echelon III
500 kg	5.4 g	Echelon III
250 kg	2.8 g	Echelon III

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

200 kg	2.8 g	Echelon III
50 kg	0.11 g	Echelon III
30 kg	91 mg	Echelon III
25 kg	88 mg	Echelon III
20 kg	85 mg	Echelon III
10 kg	45 mg	Echelon III
5 kg	8.8 mg	Echelon III
3 kg	6.5 mg	Echelon III
2 kg	5.8 mg	Echelon III
1 kg	5.0 mg	Echelon III
500 g	4.8 mg	Echelon III
300 g	4.8 mg	Echelon III
200 g	4.7 mg	Echelon III
100 g	0.20 mg	Echelon III
50 g	0.12 mg	Echelon III
30 g	0.090 mg	Echelon III
20 g	0.080 mg	Echelon III
10 g	0.074 mg	Echelon III
5 g	0.072 mg	Echelon III
3 g	0.071 mg	Echelon III
2 g	0.071 mg	Echelon III
1 g	0.071 mg	Echelon III
500 mg	0.021 mg	Echelon III
300 mg	0.021 mg	Echelon III
200 mg	0.021 mg	Echelon III
100 mg	0.021 mg	Echelon III
50 mg	0.021 mg	Echelon III
30 mg	0.021 mg	Echelon III
20 mg	0.021 mg	Echelon III
10 mg	0.021 mg	Echelon III
5 mg	0.021 mg	Echelon III
3 mg	0.021 mg	Echelon III
2 mg	0.021 mg	Echelon III
1 mg	0.021 mg	Echelon III

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

Mass – Avoirdupois

5000 lb	60 g	Echelon III
2500 lb	35 g	Echelon III
1000 lb	2.4 g	Echelon III
500 lb	1.5 g	Echelon III
250 lb	1.3 g	Echelon III
200 lb	1.3 g	Echelon III
100 lb	0.46 g	Echelon III
50 lb	80 mg	Echelon III
25 lb	43 mg	Echelon III
20 lb	43 mg	Echelon III
10 lb	4.8 mg	Echelon III
5 lb	4.8 mg	Echelon III
5 lb	4.7 mg	Echelon III
3 lb	4.8 mg	Echelon III
2 lb	4.7 mg	Echelon III
1 lb	4.7 mg	Echelon III
0.5	4.7 mg	Echelon III
0.3	0.085 mg	Echelon III
0.2	0.073 mg	Echelon III
0.1	0.073 mg	Echelon III
0.05	0.071 mg	Echelon III
0.03	0.071 mg	Echelon III
0.02	0.071 mg	Echelon III
0.01	0.071 mg	Echelon III
0.005	0.071 mg	Echelon III
0.003	0.071 mg	Echelon III
0.002	0.071 mg	Echelon III
0.001	0.071 mg	Echelon III
8 oz	4.7 mg	Echelon III
4 oz	4.7 mg	Echelon III
2 oz	0.073 mg	Echelon III
1 oz	0.074 mg	Echelon III
½ oz	0.072 mg	Echelon III

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

¼ oz	0.071 mg	Echelon III
1/8 oz	0.071 mg	Echelon III
1/16 oz	0.071 mg	Echelon III
1/32 oz	0.071 mg	Echelon III

Mass – Troy Ounce

200 oz t	4.8 mg	Echelon III
100 oz t	4.8 mg	Echelon III
50 oz t	4.7 mg	Echelon III
20 oz t	4.7 mg	Echelon III
10 oz t	4.7 mg	Echelon III
5 oz t	4.7 mg	Echelon III
2 oz t	0.080 mg	Echelon III
1 oz t	0.073 mg	Echelon III
0.5 oz t	0.072 mg	Echelon III
0.25 oz t	0.072 mg	Echelon III
0.2 oz t	0.071 mg	Echelon III
0.1 oz t	0.071 mg	Echelon III
0.05 oz t	0.071 mg	Echelon III
0.025 oz t	0.071 mg	Echelon III
0.02 oz t	0.071 mg	Echelon III
0.01 oz t	0.071 mg	Echelon III
0.005 oz t	0.071 mg	Echelon III

Mass - Wheel Load Weighers

40000 lb	78 lb	Echelon III
30000 lb	67 lb	Echelon III
20000 lb	60 lb	Echelon III
10000 lb	57 lb	Echelon III

Mass- Weight Carts

6000 lb	91 g	Echelon III
5500 lb	91 g	Echelon III
5000 lb	91 g	Echelon III
4500 lb	81 g	Echelon III

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

4000 lb	81 g	Echelon III
3500 lb	81 g	Echelon III
3000 lb	62 g	Echelon III
2500 lb	62 g	Echelon III
2000 lb	61 g	Echelon III

NVLAP Code: 20/M12
Volume - Transfer

Range	Best Uncertainty (\pm)^{note 1}	Remarks
1500 gal	49 in ³	
1000 gal	37 in ³	
500 gal	21 in ³	
200 gal	9.1 in ³	
100 gal	4.5 in ³	
50 gal	3.5 in ³	
25 gal	1.8 in ³	
10 gal	0.82 in ³	
5 gal	0.44 in ³	
20 L	7.2 mL	
Volume - Gravimetric		
10 gal	0.31 in ³	Slicker Standard
5 gal	0.25 in ³	Slicker Standard
5 gal	0.36 in ³	Test Measure
3 gal	0.30 in ³	Test Measure
2.5 gal	0.29 in ³	Test Measure
2 gal	0.28 in ³	Test Measure
1 gal	0.26 in ³	Test Measure
20 L	4.0 mL	Slicker Standard
20 L	5.9 mL	Test Measure

2009-04-28 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



CALIBRATION LABORATORIES

NVLAP LAB CODE 200869-0

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

2009-04-28 through 2010-03-31

Effective dates

A handwritten signature in cursive script that reads 'Sally S. Bruce'.

For the National Institute of Standards and Technology