

# United States Department of Commerce

## National Institute of Standards and Technology

Certificate of Metrological Traceability For:

# North Carolina

This laboratory has demonstrated evidence of an unbroken chain of metrological traceability of its standards to the international system of units (SI), documented measurement uncertainties, uses documented measurement procedures, successfully completed training and proficiency tests, documented calibration intervals, submitted a quality management system, and demonstrated suitable measurement assurance for the Scope listed on this certificate.

The Office of Weights and Measures Program assesses laboratories to NIST Handbook 143 - Program Handbook for State Weights and Measures Laboratories and ISO/IEC 17025:2017.



2025 to 2026

### Scope

#### Mass Echelon I

30 kg to 1 mg  
50 lb to 0.001 lb

#### Mass Echelon II

250 kg to 1 mg  
2500 lb to 0.001 lb  
8 oz to 0.03125 oz

#### Mass Echelon III

1000 kg to 1 mg  
2500 lb to 0.001 lb  
8 oz to 0.03125 oz

#### Weight Carts

6000 lb to 3000 lb

#### Lottery Balls

2.65 g

#### Volume Gravimetric, I

50 mL  
100 gal to 1 gill

#### Volume Gravimetric, I SVP

30 gal to 5 gal

#### Volume Transfer, II

500 L  
1500 gal to 5 gal

#### Volume Transfer, II LPG

110 gal to 20 gal

#### Length, Lottery Balls

39 mm to 37 mm

#### Temperature III, IV

660 °C to -30 °C  
1220 °F to -22 °F

A handwritten signature in black ink, appearing to read "K. Lippa".

*Katrice Lippa, Chief  
NIST Office of Weights and Measures*

*Effective Dates: 2025-02-01 to 2027-01-31*

NOTE: This Scope does not cover calibrations at remote or field locations.

Amended 6/15/2026: Removed 1 gal and added 500 L to Volume Transfer, II