

Vermont Weights and Measures Metrology Laboratory
Test Report

Issued To:

Advanced Scale
13 Delta Drive Unit #6
Londonderry, NH 03053-2372
603-626-0242

Vermont Test Number: VT17-214

Date of Test: December 27, 2017

Report of Test for Item (Make/Model/Serial Number(s)/#Pieces):

N/A/Stainless Steel Class F Standards/See Chart/4 Pieces

The mass standards described above have been compared to the standards of the State of Vermont, by NISTIR 6969, SOP 8 (2016), and have been found at time of test, or been adjusted, to meet the requirements stated in NIST Handbook 105-1 Specifications and Tolerances for Reference Standards and Field Standard Weights and Measures (1990) (Class F). Standards of the state of Vermont are traceable to the SI and National Institute of Standards and Technology (NIST). The Vermont Laboratory is recognized by NIST, under the Laboratory Metrology Program at Mass Echelon III. The mass standards described above were found to have a mass value at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a value in the “before adjustment” column.

The uncertainties shown are expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic uncertainties relative to the reference standard and procedure used, and (2) Type A, random uncertainties determined by the standard deviation of the measurement process. Type A and Type B uncertainties are combined by the root sum squared method and multiplied by a coverage factor of k (in chart) for an approximate 95 % confidence interval.

Environmental conditions at time of test:

Temperature: 23.2 °C

Relative Humidity: 45.3 %

Mass Comparator: MT XP64003L



Weight	Nominal	Before Adjustment	Correction	Uncertainty	NIST Class F Tolerance	Units	<i>k</i> Factor
5IED	20 kg		678	82	2000	mg	2.04
5IEE	20 kg		663	82	2000	mg	2.04
5IEJ	10 kg		217	65	1000	mg	2.04
5IEI	10 kg		172	65	1000	mg	2.04

Additional documentation material available on request.

The following weights were adjusted: None

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Consumer Protection Section/Metrologist
Consumer Protection Specialist

End of Report