VERMONT

Food Safety & Consumer Protection Div [phone] 802-828-2426 *Agency of Agriculture Food & Markets*
Consumer Protection Section [fax] 802-828-5983
116 State Street
Montpelier, VT 05620
agriculture.vermont.gov

Vermont Weights and Measures Metrology Laboratory
Test Report

Issued To:

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

Date of Receipt: December 12, 2018
Vermont Test Number: VT18-217
Date of Test: December 13, 2018
Report of Test for Item (Make/Model/Serial Number(s)/#Pieces):

N/A/Stainless Steel Class F Standards/See Chart/2 - 20 kg, 2 - 10 kg

The mass standards described above have been compared to the standards of the State of Vermont, by NISTIR 6969, SOP 8 (2018), 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: 21.2 ºC
Relative Humidity: 49.3 %
Barometric Pressure: 14.344 PSIA
Mass Comparator: MT XP64003L
Technician: Scott Dolan

Nominal & Marking	Before Adjustment	Conventional Mass Correction	Uncertainty	NIST Class F Tolerance	Units	*k* Factor
20 kg 5IED		683	82	2000	mg	2.04
20 kg 5IEE		653	82	2000	mg	2.04
10 kg 5IEI		167	65	1000	mg	2.04
10 kg 5IEJ		207	65	1000	mg	2.04

The following weights were adjusted: None

Calibration Performed at:
322 Industial Lane
Berlin, VT 05641

Additional documentation material available on request.

Scott Dolan

Digitally signed by Scott Dolan
DN: cn=Scott Dolan, o=State of Vermont Agency of Agriculture Food & Markets, ou=Consumer Protection Section, email=scott.dolan@vermont.gov, c=US
Date: 2018.12.13 13:14:47 -05'00'

Scott Dolan/Vermont Agency of Agriculture
Consumer Protection Section/Metrologist
Consumer Protection Specialist

End of Report