

Traceable Certificate Number: 3020158A  
 Contractor: ADVANCED SCALE INC  
 13 DELTA DR UNIT 6  
 LONDONDERRY, NH 03053-2372

Purchase Order Number: 9222  
 Client: ADVANCED SCALE INC  
 13 DELTA DR UNIT 6  
 LONDONDERRY, NH 03053-2372

Date Received: 19 Feb 2020  
 Date Calibrated: 24 Feb 2020  
 Recall Date: Feb 2021  
 Temperature Range: 21.01 °C to 21.16 °C  
 Pressure Range: 730.21 mmHg to 730.95 mmHg  
 Relative Humidity Range: 46 % to 51 %  
 Air Density Range: 1.1475 mg/cm<sup>3</sup> to 1.1491 mg/cm<sup>3</sup>  
 NIST Certificate Number: 684/291344-18 & 684/292805-19

If there are two NIST numbers, one or both may apply

Calibrated By: 03, 17, 27  
 Procedure: Inter-comparison Method (WI05-0095 Rev. C)  
 Condition of Weights: Acceptable for Calibration  
 Description of Weights: 5 mg to 100 g Polished Weight Kit, ASTM Class 1, S/N 0M31



Nominal Value	ID or S/N	As Found			As Left			Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Set Used	Assumed Density (g/cm <sup>3</sup> )
		Conv. Mass	Conv. Mass Corr (mg)	MPE Pass	Conv. Mass	Conv. Mass Corr (mg)	MPE Pass						
5 mg	0M31	5.00251	0.00251	Y	5.00251	0.00251	Y	0.00076	2	0.010	503Q	L595Q	7.95
20 mg	0M31	20.00023	0.00023	Y	20.00023	0.00023	Y	0.00081	2	0.010	503Q	L595Q	7.95
200 mg	0M31	200.0017	0.0017	Y	200.0017	0.0017	Y	0.0012	2	0.010	503Q	L595Q	7.95
200 mg	0M31.	199.9977	-0.0023	Y	199.9977	-0.0023	Y	0.0012	2	0.010	503Q	L595Q	7.95
500 mg	0M31	499.9974	-0.0026	Y	499.9974	-0.0026	Y	0.0014	2	0.010	503Q	L595Q	7.95
1 g	0M31	1.0000126	0.0126	Y	1.0000126	0.0126	Y	0.0025	2	0.034	650Q	L595Q	7.95
2 g	0M31	1.9999997	-0.0003	Y	1.9999997	-0.0003	Y	0.0022	2	0.034	650Q	L595Q	7.95
2 g	0M31.	2.0000109	0.0109	Y	2.0000109	0.0109	Y	0.0022	2	0.034	650Q	L595Q	7.95
5 g	0M31	4.9999824	-0.0176	Y	4.9999824	-0.0176	Y	0.0043	2	0.034	650Q	L595Q	7.95
10 g	0M31	10.000020	0.020	Y	10.000020	0.020	Y	0.011	2	0.050	1470Q	L595Q	7.95
20 g	0M31	19.999999	-0.001	Y	19.999999	-0.001	Y	0.014	2	0.074	1470Q	L595Q	7.95
20 g	0M31.	19.999996	-0.004	Y	19.999996	-0.004	Y	0.014	2	0.074	1470Q	L595Q	7.95
50 g	0M31	49.999944	-0.056	Y	49.999944	-0.056	Y	0.017	2	0.12	1470Q	L595Q	7.95
100 g	0M31	99.999918	-0.082	Y	99.999918	-0.082	Y	0.034	2	0.25	1470Q	L595Q	7.95

This report contains data not covered by the NVLAP Accreditation if the box is checked.

Check with your local state agency for certification of compliance on Legal for Trade items. \*The weight accuracy class is referenced in the Description of Weights. Unless otherwise noted, the weights calibrated meet the requirements of the accuracy class. Results relate only to weights calibrated. The Uncertainty of Measurement is included in the determination of Maximum Permissible Error (MPE) Pass/Fail Criteria. The specifications for Maximum Permissible Error (MPE) can be found in NIST Handbook 105-1 (2019), NIST Handbook 105-1 (1990), ASTM E617-18 or OIML R111-1 (2004), manufacturer specifications or customer specifications.

Prepared By:

Rice Lake Weighing Systems

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Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>

Dated 24 Feb 2020

Dan Demers, Metrologist



The Uncertainty assigned to the Conventional Mass values are the result of the root-sum-square of the type A and type B components, calculated in accordance with NIST SOP 29 and ISO GUM, with a coverage factor (k), to express the expanded uncertainty with an approximate 95.45 % confidence level. This Report is not to be used to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA or any agency of the U.S. Government. This document shall not be reproduced, except in full, without the written approval of Rice Lake Weighing Systems' Metrology Laboratory.

