

Traceable Certificate Number: 2943414A
Contractor: ADVANCED SCALE INC
 13 DELTA DR UNIT 6
 LONDONDERRY, NH 03053

Purchase Order Number: 9064
Client: ADVANCED SCALE INC
 13 DELTA DR UNIT 6
 LONDONDERRY, NH 03053

Date Received: 21 Aug 2019
Date Calibrated: 22 Aug 2019 to 26 Aug 2019
Recall Date: 22 Aug 2020
Temperature Range: 21.05 °C to 21.16 °C
Pressure Range: 727.85 mmHg to 738.05 mmHg
Relative Humidity Range: 46 % to 51 %
Air Density Range: 1.1435 mg/cm³ to 1.1602 mg/cm³
NIST Certificate Number: 684/291344-18 & 684/292805-19



Indicates Corr + Unc >= MPE

If there are two NIST numbers, one or both may apply
Calibrated By: 17, 27
Procedure: Inter-comparison Method (WI05-0095 Rev. C)
Condition of Weights: Acceptable for Calibration
Description of Weights: 2 mg to 100 g Polished Weight Kit, ASTM Class 1, S/N N473

Nominal Value	ID or S/N	As Found			As Left			Unc. (mg)	k	MPE* (mg)	Balance Used	Standard Assumed	
		Conv. Mass	Conv. Mass Corr (mg)	MPE Pass	Conv. Mass	Conv. Mass Corr (mg)	MPE Pass					Set Used	Density (g/cm ³)
2 mg		2.0041	0.0041	Y	2.0041	0.0041	Y	0.0011	2	0.010	650Q	L595Q	7.95
2 mg		2.0032	0.0032	Y	2.0032	0.0032	Y	0.0011	2	0.010	650Q	L595Q	7.95
5 mg		4.9998	-0.0002	Y	4.9998	-0.0002	Y	0.0016	2	0.010	650Q	L595Q	7.95
10 mg		10.0005	0.0005	Y	10.0005	0.0005	Y	0.0013	2	0.010	650Q	L595Q	7.95
20 mg		20.0056	0.0056	Y	20.0056	0.0056	Y	0.0015	2	0.010	650Q	L595Q	7.95
50 mg		50.0011	0.0011	Y	50.0011	0.0011	Y	0.0018	2	0.010	650Q	L595Q	7.95
100 mg		99.9999	-0.0001	Y	99.9999	-0.0001	Y	0.0020	2	0.010	650Q	L595Q	7.95
200 mg		200.00175	0.00175	Y	200.00175	0.00175	Y	0.00053	2	0.010	650Q	L595Q	7.95
200 mg		199.99249	-0.00751	Y	199.99249	-0.00751	Y	0.00053	2	0.010	650Q	L595Q	7.95
500 mg		499.9980	-0.0020	Y	499.9980	-0.0020	Y	0.0013	2	0.010	650Q	L595Q	7.95
1 g		0.9999946	-0.0000054	Y	0.9999946	-0.0000054	Y	0.0023	2	0.034	650Q	L595Q	7.95
2 g		1.9999994	-0.0000006	Y	1.9999994	-0.0000006	Y	0.0026	2	0.034	650Q	L595Q	7.95
2 g		1.9999962	-0.0000038	Y	1.9999962	-0.0000038	Y	0.0026	2	0.034	650Q	L595Q	7.95
5 g		4.9999933	-0.0000067	Y	4.9999933	-0.0000067	Y	0.0042	2	0.034	650Q	L595Q	7.95
10 g		9.999944	-0.000056	N <input checked="" type="checkbox"/>	10.000013	0.013	Y	0.010	2	0.050	1470Q	L595Q	7.95
20 g		19.9998876	-0.0001124	N <input checked="" type="checkbox"/>	20.0000183	0.0183	Y	0.0098	2	0.074	1470Q	L595Q	7.95
20 g		19.9999693	-0.0000307	Y	19.9999693	-0.0000307	Y	0.0098	2	0.074	1470Q	L595Q	7.95
50 g		50.000011	0.000011	Y	50.000011	0.011	Y	0.016	2	0.12	1470Q	L595Q	7.95
100 g		99.999620	-0.000380	N <input checked="" type="checkbox"/>	100.000126	0.126	Y	0.023	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
 230 West Coleman Street, Rice Lake, WI 54868 • USA • PN 64787 • 6/19
 TEL: 715-234-9171 • FAX: 715-234-6967 • www.ricelake.com
 Definitions: <http://certs.ricelake.com/certs/DefinitionsV2.docx>

Dated **26 Aug 2019**

Dan Demers
 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.

