



**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

JANET T. MILLS  
GOVERNOR

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
Director

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8108ME**

Weight Kit: 10 lb to 0.001 lb

SN: 5940

Date of Report: February 7, 2024

**SUBMITTED BY:**

Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2023. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
10 lb	81.4	450	27	---
5 lb	114	230	15	---
2 lb	40.7	91	7.5	---
2 lb *	44.7	91	7.5	---



Maine Scale Company  
**MAINE TEST NUMBER 8108ME**

Page 2 of 3

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
1 lb	35.6	70	6.0	---
0.5 lb	38.9	45	5.1	<b>57.9</b>
0.2 lb	14.5	18	1.2	<b>22.0</b>
0.2 lb *	15.3	18	1.2	<b>18.6</b>
0.1 lb	2.67	9.1	0.55	---
0.05 lb	2.16	4.5	0.29	---
0.02 lb	0.29	1.8	0.15	---
0.02 lb *	0.37	1.8	0.15	---
0.01 lb	0.495	1.5	0.099	---
0.005 lb	0.354	1.2	0.084	---
0.002 lb	-0.174	0.87	0.068	---
0.002 lb *	-0.324	0.87	0.068	---
0.001 lb	0.305	0.70	0.050	<b>1.445</b>

Environmental conditions at time of test:

Temperature: 21.7 °C

Relative Humidity: 40.7 %

Barometric Pressure: 762.27 mmHg

Data reduction sheets are on file at the laboratory.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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  $k$  ( $k=2.0$ ) to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at  $20 \text{ }^\circ\text{C}$ . The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

Date Received: November 21, 2023

Date of Test: December 12, 2023

Calibration Due: December 31, 2025

Calibration by: Bradford Bachelder



PHONE: (207) 287-7587

FAX: (207) 287-7161

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Lab/CALIBRATIONS/Calibration 2024/Mass III Av Small/Maine Scale\_5940\_8108ME.doc

Maine Scale Company  
**MAINE TEST NUMBER 8108ME**  
Page 3 of 3

**Magnetism, Density, & Surface Finish:** The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.



Bradford Bachelder, Metrologist

This report may not be reproduced, except in full, without written permission from this laboratory. This report must not be used to claim product certification, approval, or endorsement by NIST, NVLAP, The State of Maine, or any agency of the U.S. government. Calibrations performed at 333 Cony Road, Augusta ME.





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**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

JANET T. MILLS  
GOVERNOR

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
Director

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8109ME**

Weight Kit: 10 lb to 0.001 lb

SN: 9WCB

Date of Report: February 7, 2024

**SUBMITTED BY:**

Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2023. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

<b>Nominal &amp; marking</b>	<b>Correction mg</b>	<b>NIST Class F Tolerance mg</b>	<b>Uncertainty mg</b>	<b>Before Adjustment</b>
10 lb	-54	450	27	---
5 lb	100	230	15	---
2 lb	14.7	91	7.5	---
2 lb *	21.7	91	7.5	---



Maine Scale Company  
**MAINE TEST NUMBER 8109ME**  
 Page 2 of 3

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
1 lb	20.6	70	6.0	---
0.5 lb	16.9	45	5.1	---
0.2 lb	6.8	18	1.2	---
0.2 lb *	5.7	18	1.2	---
0.1 lb	4.07	9.1	0.55	---
0.05 lb	2.40	4.5	0.29	---
0.02 lb	0.47	1.8	0.15	---
0.02 lb *	0.24	1.8	0.15	---
0.01 lb	0.495	1.5	0.099	---
0.005 lb	0.594	1.2	0.084	---
0.002 lb	0.386	0.87	0.068	---
0.002 lb *	0.056	0.87	0.068	---
0.001 lb	0.305	0.70	0.050	---

Environmental conditions at time of test:

Temperature: 21.7 °C

Relative Humidity: 40.7 %

Barometric Pressure: 762.27 mmHg

Data reduction sheets are on file at the laboratory.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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  $k$  ( $k=2.0$ ) to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at  $20 \text{ }^\circ\text{C}$ . The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

Date Received: November 21, 2023

Date of Test: December 12, 2023

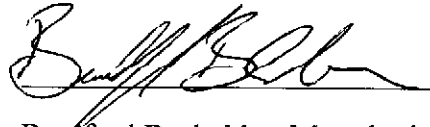
Calibration Due: December 31, 2025

Calibration by: Bradford Bachelder



Maine Scale Company  
**MAINE TEST NUMBER 8109ME**  
Page 3 of 3

**Magnetism, Density, & Surface Finish:** The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





JANET T. MILLS  
GOVERNOR

**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
Director

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8102ME**  
(82) 50 lb. & (5) 25 lb. cast iron grip weights  
Date of Report: February 8, 2024

**SUBMITTED BY:**  
Maine Scale Company  
4 Washington St North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances.

Standards of the state of Maine are traceable to the International System of Units (S.I.) through Maine test number 7905ME. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2023 and 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a bold value in the "before adjustment" column. Weights received in good condition. The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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 2.0 (k=2) representing approximately a 95 % confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm<sup>3</sup> at 20 °C.

Page 1 of 5



PHONE: (207) 287-7587

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[https://stateofmaine-my.sharepoint.com/personal/bradford\\_bachelder\\_maine\\_gov/Documents/OldHomeDirectory/Metrology/Lab/CALIBRATIONS/Calibration 2024/Mass III Av Large/Maine Scale 50lb\\_8102ME.doc](https://stateofmaine-my.sharepoint.com/personal/bradford_bachelder_maine_gov/Documents/OldHomeDirectory/Metrology/Lab/CALIBRATIONS/Calibration%2024/Mass%20III%20Av%20Large/Maine%20Scale%2050lb_8102ME.doc)

Maine Scale Company  
**Maine Test Number 8102ME**  
Page 2 of 5

Serial Number	Nominal	Correction g	NIST Class F Tolerance, g	Uncertainty g	Before Adjustment, g
1	50 lb.	1.31	2.3	0.14	---
2	50 lb.	-0.72	2.3	0.14	---
3	50 lb.	0.10	2.3	0.14	---
4	50 lb.	-1.49	2.3	0.14	---
7	50 lb.	0.43	2.3	0.14	<b>2.39</b>
8	50 lb.	0.34	2.3	0.14	<b>2.44</b>
9	50 lb.	1.70	2.3	0.14	---
10	50 lb.	1.10	2.3	0.14	---
11	50 lb.	0.37	2.3	0.14	---
12	50 lb.	0.92	2.3	0.14	---
13	50 lb.	0.78	2.3	0.14	<b>3.77</b>
14	50 lb.	-1.08	2.3	0.14	---
15	50 lb.	1.60	2.3	0.14	---
16	50 lb.	0.82	2.3	0.14	---
17	50 lb.	-1.67	2.3	0.14	---
18	50 lb.	0.64	2.3	0.14	---
19	50 lb.	1.14	2.3	0.14	---
20	50 lb.	1.88	2.3	0.14	---
21	50 lb.	-0.29	2.3	0.14	---
22	50 lb.	0.58	2.3	0.14	<b>2.26</b>
23	50 lb.	0.96	2.3	0.14	---
24	50 lb.	0.16	2.3	0.14	---
26	50 lb.	1.21	2.3	0.14	---
27	50 lb.	0.48	2.3	0.14	<b>2.51</b>
28	50 lb.	0.09	2.3	0.14	---
29	50 lb.	1.44	2.3	0.14	---
30	50 lb.	0.55	2.3	0.14	---
31	50 lb.	-0.10	2.3	0.14	---
32	50 lb.	-0.90	2.3	0.14	---
33	50 lb.	-0.22	2.3	0.14	---
34	50 lb.	0.22	2.3	0.14	---
35	50 lb.	-0.40	2.3	0.14	---
36	50 lb.	0.36	2.3	0.14	<b>3.94</b>
37	50 lb.	-0.44	2.3	0.14	---
38	50 lb.	0.91	2.3	0.14	---





Maine Scale Company  
**Maine Test Number 8102ME**  
Page 3 of 5

Serial Number	Nominal	Correction g	NIST Class F Tolerance, g	Uncertainty g	Before Adjustment, g
39	50 lb.	0.98	2.3	0.14	---
40	50 lb.	-0.78	2.3	0.14	---
50	50 lb.	-0.97	2.3	0.14	---
52	50 lb.	-1.77	2.3	0.14	---
53	50 lb.	0.38	2.3	0.14	---
54	50 lb.	0.21	2.3	0.14	---
56	50 lb.	-0.95	2.3	0.14	---
57	50 lb.	1.23	2.3	0.14	---
58	50 lb.	1.57	2.3	0.14	---
59	50 lb.	1.87	2.3	0.14	---
60	50 lb.	0.67	2.3	0.14	---
63	50 lb.	0.61	2.3	0.14	<b>-3.71</b>
64	50 lb.	0.86	2.3	0.14	---
66	50 lb.	0.22	2.3	0.14	<b>-5.08</b>
70	50 lb.	1.14	2.3	0.14	---
71	50 lb.	-1.35	2.3	0.14	---
72	50 lb.	1.23	2.3	0.14	---
73	50 lb.	-0.37	2.3	0.14	---
74	50 lb.	-0.42	2.3	0.14	---
75	50 lb.	-2.1	2.3	0.14	---
76	50 lb.	0.12	2.3	0.14	<b>-3.09</b>
77	50 lb.	0.50	2.3	0.14	<b>-3.11</b>
78	50 lb.	1.96	2.3	0.14	---
79	50 lb.	-1.42	2.3	0.14	---
80	50 lb.	0.45	2.3	0.14	<b>2.60</b>
81	50 lb.	0.59	2.3	0.14	---
82	50 lb.	-1.38	2.3	0.14	---
84	50 lb.	2.15	2.3	0.14	---
85	50 lb.	0.45	2.3	0.14	<b>-2.28</b>
87	50 lb.	0.00	2.3	0.14	<b>-4.70</b>
88	50 lb.	0.49	2.3	0.14	<b>-2.17</b>
89	50 lb.	-0.82	2.3	0.14	---
91	50 lb.	1.97	2.3	0.14	---
92	50 lb.	0.48	2.3	0.14	<b>2.19</b>
93	50 lb.	0.55	2.3	0.14	<b>3.40</b>
94	50 lb.	1.71	2.3	0.14	---



Maine Scale Company  
**Maine Test Number 8102ME**  
 Page 4 of 5

Serial Number	Nominal	Correction g	NIST Class F Tolerance, g	Uncertainty g	Before Adjustment, g
200	50 lb.	0.35	2.3	0.14	<b>-3.66</b>
310	50 lb.	-0.66	2.3	0.14	---
531	50 lb.	1.16	2.3	0.14	---
601	50 lb.	0.31	2.3	0.14	---
1902	50 lb.	-1.48	2.3	0.14	---
1911	50 lb.	1.67	2.3	0.14	---
1913	50 lb.	0.90	2.3	0.14	---
2458	50 lb.	2.13	2.3	0.14	---
2460	50 lb.	0.51	2.3	0.14	<b>2.31</b>
2468	50 lb.	0.53	2.3	0.14	<b>3.56</b>
77K5	50 lb.	1.12	2.3	0.14	---
2	25 lb.	-0.200	1.1	0.071	---
3	25 lb.	0.260	1.1	0.071	---
87	25 lb.	0.000	1.1	0.071	<b>-4.670</b>
102	25 lb.	-0.140	1.1	0.071	---
3311	25 lb.	0.190	1.1	0.071	---

**Density, & Surface Finish:** The calibration performed did not include testing to determine whether the test items met the limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.

Environmental conditions at time of test:

Temperature: 21.4 °C to 21.7 °C

Relative Humidity: 40.3 % to 40.7 %

Pressure: 755.69 to 770.85 mmHg

Data reduction sheets are on file at the laboratory.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.

**SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Dates Received: November 21, 2023, December 27, 2023, January 2, 2024 and January 17, 2024

Dates of Test: November 21, 2023, December 28, 2023, January 3, 2024 and February 6, 2024

Calibration Due: February 28, 2025

Calibration by: Bradford Bachelder



Maine Scale Company  
**Maine Test Number 8102ME**  
Page 5 of 5



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





JANET T. MILLS  
GOVERNOR

**STATE OF MAINE**  
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**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
Director

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8110ME**  
(50) 1000 lb. Cast Iron Weights & (5) 500 lb. Cast Iron Weights  
Date of Report: February 7, 2024

**SUBMITTED BY:**  
Maine Scale Company  
4 Washington St North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine, by modified substitution, and were found to be, or adjusted to within NIST Handbook 105-1 Class "F" tolerances.

Standards of the state of Maine are traceable to the National Institute of Standards and Technology through Oklahoma Bureau of Standards test no. OBS 17-1193. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2023 and 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the following tabulation. Weights received in an out of tolerance condition show a bold value in the "before adjustment" column. Weights received in good condition. The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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 2.0 ( $k=2.0$ ) representing approximately a 95 % confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at  $20 \text{ }^\circ\text{C}$ .

Page 1 of 4



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Maine Scale Company  
**Maine Test Number 8110ME**  
Page 2 of 4

Serial Number	Nominal	Correction g	NIST Class F Tolerance, g	Uncertainty g	Before Adjustment, g
0	1000 lb.	-11.1	45	3.2	---
1	1000 lb.	5.1	45	3.2	<b>-44.1</b>
2	1000 lb.	17.9	45	3.2	---
3	1000 lb.	-1.4	45	3.2	---
4	1000 lb.	-40.2	45	3.2	---
5	1000 lb.	4.5	45	3.2	<b>54.2</b>
6	1000 lb.	-19.9	45	3.2	---
7	1000 lb.	27.8	45	3.2	---
8	1000 lb.	20.5	45	3.2	---
9	1000 lb.	35.8	45	3.2	---
10	1000 lb.	-15.0	45	3.2	---
11	1000 lb.	-0.5	45	3.2	---
12	1000 lb.	-24.4	45	3.2	---
13	1000 lb.	-15.7	45	3.2	---
14	1000 lb.	5.4	45	3.2	---
15	1000 lb.	-23.7	45	3.2	---
16	1000 lb.	-17.7	45	3.2	---
60	1000 lb.	16.4	45	3.2	---
61	1000 lb.	-7.4	45	3.2	---
62	1000 lb.	-11.2	45	3.2	---
63	1000 lb.	-35.8	45	3.2	---
64	1000 lb.	-5.7	45	3.2	---
65	1000 lb.	-32.0	45	3.2	---
66	1000 lb.	-26.4	45	3.2	---
67	1000 lb.	-8.2	45	3.2	---
68	1000 lb.	22.4	45	3.2	---
69	1000 lb.	30.4	45	3.2	---
70	1000 lb.	0.6	45	3.2	---
71	1000 lb.	-37.1	45	3.2	---
72	1000 lb.	35.2	45	3.2	---
73	1000 lb.	-25.2	45	3.2	---
0201	1000 lb.	-3.6	45	3.2	<b>53.1</b>
0202	1000 lb.	17.9	45	3.2	---
0203	1000 lb.	9.0	45	3.2	<b>65.9</b>
0205	1000 lb.	20.5	45	3.2	---



Maine Scale Company  
**Maine Test Number 8110ME**  
 Page 3 of 4

Serial Number	Nominal	Correction g	NIST Class F Tolerance, g	Uncertainty g	Before Adjustment, g
0302	1000 lb.	18.5	45	3.2	---
0303	1000 lb.	-26.4	45	3.2	---
0305	1000 lb.	-1.9	45	3.2	---
0307	1000 lb.	-20.2	45	3.2	---
0325	1000 lb.	3.5	45	3.2	<b>45.3</b>
0351	1000 lb.	15.0	45	3.2	---
0352	1000 lb.	-9.4	45	3.2	<b>60.4</b>
1002	1000 lb.	-0.8	45	3.2	---
1004	1000 lb.	3.5	45	3.2	---
1006	1000 lb.	17.3	45	3.2	----
1009	1000 lb.	-2.2	45	3.2	<b>46.9</b>
1310	1000 lb.	-20.8	45	3.2	---
3311	1000 lb.	0.7	45	3.2	<b>46.9</b>
366004	1000 lb.	5.4	45	3.2	<b>-59.7</b>
366008	1000 lb.	7.5	45	3.2	<b>-43.2</b>
74	500 lb.	3.6	23	2.1	---
75	500 lb.	-4.5	23	2.1	---
76	500 lb.	-10.1	23	2.1	---
77	500 lb.	-0.1	23	2.1	<b>-26.8</b>
79	500 lb.	-14.8	23	2.1	---

**Magnetism, Density, & Surface Finish:** The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.

Environmental conditions at time of test:  
 Temperature: 20.9 °C to 21.7 °C  
 Relative Humidity: 40.1 % to 40.7 %  
 Pressure: 748.07 mmHg to 755.77 mmHg  
 Data reduction sheets are on file at the laboratory.



Maine Scale Company  
**Maine Test Number 8110ME**  
Page 4 of 4

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.


**SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Dates Received: November 29, 2023, December 27, 2023 & January 23, 2024

Dates of Test: December 12, 2023, January 3, 2023 & February 1, 2024

Calibration Due: February 28, 2025

Calibration by: Bradford Bachelder

  
Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

JANET T. MILLS  
GOVERNOR

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
Director

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8129ME**

Weight Kit: 10 lb to 0.01 lb

SN: 28619

Date of Report: February 7, 2024

**SUBMITTED BY:**

Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
10 lb	107	450	27	---
10 lb *	65	450	27	---
5 lb	29	230	15	---
2 lb	27.7	91	7.5	---
2 lb *	25.7	91	7.5	---





Maine Scale Company  
**MAINE TEST NUMBER 8129ME**

Page 2 of 3

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
1 lb	30.6	70	6.0	---
0.5 lb	13.9	45	5.1	---
0.2 lb	8.1	18	1.2	---
0.2 lb *	5.4	18	1.2	---
0.1 lb	4.27	9.1	0.55	---
0.05 lb	1.67	4.5	0.29	---
0.02 lb	-0.31	1.8	0.15	---
0.02 lb *	0.08	1.8	0.15	---
0.01 lb	0.135	1.5	0.099	---

Environmental conditions at time of test:

Temperature: 21.0 °C

Relative Humidity: 41.5 %

Barometric Pressure: 761.60 mmHg

Data reduction sheets are on file at the laboratory.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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  $k$  ( $k=2.0$ ) to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at 20 °C. The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

Date Received: December 27, 2023

Date of Test: January 12, 2024

Calibration Due: January 31, 2026

Calibration by: Bradford Bachelder

**Magnetism, Density, & Surface Finish:** The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.



Maine Scale Company  
**MAINE TEST NUMBER 8129ME**  
Page 3 of 3



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





JANET T. MILLS  
GOVERNOR

**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
DIRECTOR

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8106ME**

Metric Weight Kit: 5 kg to 1 g

SN: 74742

Date of Report: February 7, 2024

**SUBMITTED BY:**

Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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 2.0 ( $k=2.0$ ) representing a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at  $20 \text{ }^\circ\text{C}$ . The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

Page 1 of 3



Maine Scale Company  
**MAINE TEST NUMBER 8106ME**

Page 2 of 3

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.  
 Environmental conditions at time of test:

Temperature: 21.0 °C

Relative Humidity: 40.8 %

Barometric Pressure: 749.64 mmHg.

Data reduction sheets are on file at the laboratory.

Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 kg	151	500	31	---
2 kg	56	200	13	---
2 kg *	62	200	13	---
1 kg	26.7	100	7.2	---
500 g	7.1	70	5.8	---
200 g	-0.5	40	4.7	---
200 g *	12.6	40	4.7	---
100 g	10.4	20	1.2	---
50 g	4.64	10	0.61	---
20 g	1.01	4.0	0.27	---
20 g *	0.82	4.0	0.27	---
10 g	0.69	2.0	0.13	---
5 g	0.25	1.5	0.10	---
2 g	0.673	1.1	0.080	---
2 g *	0.383	1.1	0.080	---
1 g	0.083	0.90	0.061	---

Date Received: November 21, 2023

Date of Test: January 11, 2024


Calibration Due: January 31, 2026

Calibration by: Bradford Bachelder

**Magnetism, Density, & Surface Finish:** The calibration performed did not include testing to determine whether the test items met the maximum susceptibility requirements for magnetism, limits for density, or maximum values for surface finish. Where applicable, our laboratory uses an assumed density which is provided by the client or weight manufacturer. It is the responsibility of the requestor of the calibration to select classifications acceptable to their needs.



Maine Scale Company  
**MAINE TEST NUMBER 8106ME**  
Page 3 of 3



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





JANET T. MILLS  
GOVERNOR

**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
DIRECTOR

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8142ME**  
Metric Weight Kit: 2 kg to 5 mg  
SN: MS54  
Date of Report: February 7, 2024

**SUBMITTED BY:**  
Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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 2.0 ( $k=2.0$ ) representing a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at  $20 \text{ }^\circ\text{C}$ . The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.

Page 1 of 3



PHONE: (207) 287-7587

FAX: (207) 287-7161

[https://stateofmaine-my.sharepoint.com/personal/bradford\\_bachelder\\_maine\\_gov/Documents/OldHomeDirectory/Metrology/Lab/CALIBRATIONS/Calibration 2024/Mass III Metric/Maine Scale\\_MS54\\_8142ME.doc](https://stateofmaine-my.sharepoint.com/personal/bradford_bachelder_maine_gov/Documents/OldHomeDirectory/Metrology/Lab/CALIBRATIONS/Calibration%2024/Mass%20III%20Metric/Maine%20Scale_MS54_8142ME.doc)

Maine Scale Company  
**MAINE TEST NUMBER 8142ME**

Page 2 of 3

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.  
 Environmental conditions at time of test:

Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
2 kg	63	200	13	---
1 kg	26.7	100	7.2	---
500 g	16.1	70	5.8	---
200 g	14.6	40	4.7	---
200 g *	15.6	40	4.7	---
100 g	4.9	20	1.2	---
50 g	4.74	10	0.61	---
20 g	0.96	4.0	0.27	---
20 g *	0.96	4.0	0.27	---
10 g	0.85	2.0	0.13	---
5 g	0.49	1.5	0.10	---
2 g	0.183	1.1	0.080	---
2 g *	0.353	1.1	0.080	---
1 g	0.403	0.90	0.061	---
500 mg	0.187	0.72	0.053	---
200 mg	0.075	0.54	0.045	---
200 mg *	0.095	0.54	0.045	---
100 mg	0.017	0.43	0.037	---
50 mg	0.064	0.35	0.034	---
20 mg	-0.004	0.26	0.031	---
20 mg *	0.016	0.26	0.031	---
10 mg	0.036	0.21	0.029	---
5 mg	0.025	0.17	0.017	---

Temperature: 21.0 °C  
 Relative Humidity: 41.9 %  
 Barometric Pressure: 749.30 mmHg.  
 Data reduction sheets are on file at the laboratory.



PHONE: (207) 287-7587

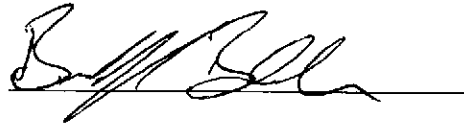
FAX: (207) 287-7161

[https://stateofmaine-my.sharepoint.com/personal/bradford\\_bachelor\\_maine\\_gov/Documents/OldHomeDirectory/Metrology](https://stateofmaine-my.sharepoint.com/personal/bradford_bachelor_maine_gov/Documents/OldHomeDirectory/Metrology)

Lab/CALIBRATIONS/Calibration 2024/Mass III Metric/Maine Scale\_MS54\_8142ME.doc

Maine Scale Company  
**MAINE TEST NUMBER 8142ME**  
Page 3 of 3

Date Received: January 17, 2024  
Date of Test: February 5, 2024  
Calibration Due: February 28, 2026  
Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.







**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

JANET T. MILLS  
GOVERNOR

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
Director

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8141ME**

Weight Kit: 5 lb to 0.001 lb

SN: 74741

Date of Report: February 7, 2024

**SUBMITTED BY:**

Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017. **SI conversion: 1-pound avoirdupois equals 0.45359237 kilograms.**

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 lb	32	230	15	---
5 lb *	29	230	15	---
5 lb **	47	230	15	---
5 lb ***	38	230	15	---
5 lb ****	49	230	15	---



Maine Scale Company  
**MAINE TEST NUMBER 8141ME**

Page 2 of 3

Nominal & marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
1 lb	12.6	70	6.0	---
1 lb *	52.6	70	6.0	---
1 lb **	29.6	70	6.0	---
1 lb ***	11.6	70	6.0	---
1 lb ****	-0.4	70	6.0	---
0.5 lb	14.9	45	5.1	---
0.2 lb	7.2	18	1.2	---
0.2 lb *	7.7	18	1.2	---
0.1 lb	0.57	9.1	0.55	---
0.05 lb	0.97	4.5	0.29	---
0.02 lb	0.64	1.8	0.15	---
0.02 lb *	0.70	1.8	0.15	---
0.01 lb	0.665	1.5	0.099	---
0.005 lb	-0.847	1.2	0.084	---
0.002 lb	0.746	0.87	0.068	---
0.002 lb *	-0.034	0.87	0.068	---
0.001 lb	0.305	0.70	0.050	---

Environmental conditions at time of test:

Temperature: 20.4 °C

Relative Humidity: 40.3 %

Barometric Pressure: 754.97 mmHg

Data reduction sheets are on file at the laboratory.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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  $k$  ( $k=2.0$ ) to represent approximately a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of  $8.0 \text{ g/cm}^3$  at  $20 \text{ }^\circ\text{C}$ . The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.



Maine Scale Company  
**MAINE TEST NUMBER 8141ME**  
Page 3 of 3

Date Received: January 12, 2024  
Date of Test: January 18, 2024  
Calibration Due: January 31, 2026  
Calibration by: Bradford Bachelder



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.





**STATE OF MAINE**  
**DEPARTMENT OF AGRICULTURE, CONSERVATION & FORESTRY**  
**DIVISION OF QUALITY ASSURANCE AND REGULATIONS**  
**28 STATE HOUSE STATION**  
**AUGUSTA, MAINE 04333-0028**

JANET T. MILLS  
GOVERNOR

Amanda E. Beal  
COMMISSIONER

Celeste Poulin  
DIRECTOR

**REPORT OF CALIBRATION**  
**MAINE TEST NUMBER 8130ME**

Metric Weight Kit: 5 kg to 1 g

SN: 28620

Date of Report: February 6, 2024

**SUBMITTED BY:**

Maine Scale Company  
4 Washington St. North  
Auburn, ME 04210

The mass standards described above have been compared with standards of the State of Maine by NIST SOP 8 (Medium Accuracy Calibrations of Mass Standards by Modified Substitution, May 2019), and were found to be or adjusted to within NIST Handbook 105-1 Class "F" tolerances. Weights received in good condition.

Standards of the State of Maine are traceable to the International System of Units (S.I.) through Oregon State test number OR-18-240-C. The Maine Laboratory is recognized by NIST, OWM, under the "Laboratory Metrology Program", at Mass Echelon III for 2024. Measurements by this laboratory are traceable to the National Standards at NIST.

The mass standards described above were found to have mass values at the time of test as indicated in the tabulation on the following page. Weights received in an out of tolerance condition will show a bold value in a "before adjustment" column if required.

The uncertainties shown with reported values are calculated on the conventional mass values and expressed as the sum of the following sources of inaccuracy; (1) Type B, systematic errors relative to the reference standard and procedure used, including bias, and (2) Type A, random errors 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 2.0 (k=2.0) representing a 95% confidence level. All mass values have been determined as "conventional mass" with respect to stainless steel with a density of 8.0 g/cm<sup>3</sup> at 20 °C. The summation value of the measurement uncertainty and measurement result is used when comparing results to specified tolerances and issuing statements of compliance.



Maine Scale Company  
**MAINE TEST NUMBER 8130ME**  
 Page 2 of 3

Calibrations performed by this laboratory comply with the requirements of ISO/IEC 17025:2017.  
 Environmental conditions at time of test:

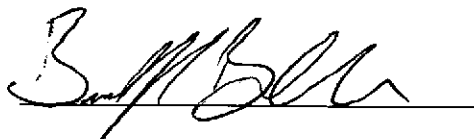
Temperature: 21.0 °C  
 Relative Humidity: 41.9 %  
 Barometric Pressure: 749.30 mmHg.  
 Data reduction sheets are on file at the laboratory.

Nominal & Marking	Correction mg	NIST Class F Tolerance mg	Uncertainty mg	Before Adjustment
5 kg	125	500	31	---
5 kg *	143	500	31	---
2 kg	63	200	13	---
2 kg *	49	200	13	---
1 kg	26.7	100	7.2	---
500 g *	16.1	70	5.8	---
500 g **	18.1	70	5.8	---
500 g ***	12.1	70	5.8	---
500 g ****	24.1	70	5.8	---
500 g *****	22.1	70	5.8	---
200 g	14.6	40	4.7	---
200 g *	15.6	40	4.7	---
100 g	4.9	20	1.2	---
50 g	4.74	10	0.61	---
20 g	0.96	4.0	0.27	---
20 g *	0.96	4.0	0.27	---
10 g	0.85	2.0	0.13	---
5 g	0.49	1.5	0.10	---
2 g	0.183	1.1	0.080	---
2 g *	0.353	1.1	0.080	---
1 g	0.403	0.90	0.061	---

Date Received: December 27, 2023  
 Date of Test: January 11, 2024  
 Calibration Due: January 31, 2026  
 Calibration by: Bradford Bachelder



Maine Scale Company  
**MAINE TEST NUMBER 8130ME**  
Page 3 of 3



Bradford Bachelder, Metrologist

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Calibrations performed at 333 Cony Road, Augusta ME.

