PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Tripoint Technical Services, LLC

11 Depot Street, South Grafton, MA 01560

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Dimensional, Electrical, Mass, Force, and Weighing Device, and Mechanical Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
July 05, 2023	September 05, 2025	November 30, 2027

Accreditation No.:	*Certificate No.:*
123217	L25-677

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Certificate of Accreditation: Supplement

Tripoint Technical Services

11 Depot Street, South Grafton, MA 01560
Contact Name: Ralph Caporelli Phone: 508-581-4133

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Time and Frequency	Timers/ Recorders	Up to 30 min	0.34 s	Stopwatch	SP960-12/ CP101	F1, F3	F, O
Time and Frequency	Frequency Counters, DMMs, Oscilloscope	0.01 Hz to 119.99 Hz	590 µHz/Hz	Fluke 5560A	CPF01	F1, F3	F, O
Time and Frequency	Frequency Counters, DMMs, Oscilloscope	120.0 Hz to 1 199.9 Hz	580 µHz/Hz	Fluke 5560A	CPF01	F1, F3	F, O
Time and Frequency	Frequency Counters, DMMs, Oscilloscope	1.200 Hz to 11.999 kHz	610 µHz/Hz	Fluke 5560A	CPF01	F1, F3	F, O
Time and Frequency	Frequency Counters, DMMs, Oscilloscope	12.00 kHz to 119.99 kHz	660 µHz/Hz	Fluke 5560A	CPF01	F1, F3	F, O
Time and Frequency	Frequency Counters, DMMs, Oscilloscope	120.0 kHz to 1 199.9 kHz	580 µHz/Hz	Fluke 5560A	CPF01	F1, F3	F, O
Time and Frequency	Frequency Counters, DMMs, Oscilloscope	1.200 MHz to 2.000 MHz	650 µHz/Hz	Fluke 5560A	CPF01	F1, F3	F, O
Thermodynamic	Equipment to Measure Temperature with RTD	-20°C to 40 °C	0.26 °C	Vaisala HMP75 Temp/Humidity Probe	CP102	F1, F3	F,O
Thermodynamic	Equipment to Measure Humidity with sensor	15 % RH to 95 % RH	2.3 % RH	Vaisala HMP75 Temp/Humidity Probe	CP102	F1, F3	F,O
Thermodynamic	Ovens, Chambers, Temperature Uniformity Survey (Type J)	-17 ºC to 871 ºC	0.8 °C	Eurotherm 6100A Temperature Recorder	CP101	F1, F3	O
Thermodynamic	Ovens, Chambers, Temperature Uniformity Survey(Type K)	-17 ºC to 1 370 ºC	0.6 °C + 0.0 003 °C/°C	Eurotherm 6100A Temperature Recorder	CP101	F1, F3	O
Dimensional	Micrometers	Up to 36 in	(40 + 6L) µin	Gage Blocks	CP502	F1, F3	F, O
Dimensional	Calipers	Up to 40 in	(310 + 10L) µin	Gage Blocks	CP501	F1, F3	F, O
Dimensional	Indicators, Test	0.008 in	32 µin	Gage Blocks	CP504	F1, F3	F, O
Dimensional	Indicators, Drop	Up to 2 in	(35 + 6L) µin	Gage Blocks	CP504	F1, F3	F, O
Dimensional	Height Gage	Up to 40 in	(12 + 4L) µin	Gage Blocks	CP505	F1, F3	F, O

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Dimensional	Gage Blocks	Up to 10 in	(2.1 + 2.3L)	Mitutoyo Block Comparator, Master Gage Blocks	CP507	F1, F3	F
Dimensional	Gage Blocks	10in to 20 in	(6.9 + 1.75L)	Mitutoyo Block Comparator, Master Gage Blocks	CP507	F1, F3	F
Dimensional	Surface Plates (Unilateral Flatness)	Up to 200 in Diagonal	(25 + 4D) µin	Electronic Levels	CP503	F1, F3	F, O
Dimensional	Surface Plates (Repeatability)	Up to 200 in Diagonal	30 µin	Repeat-O-meter w/indicator	CP503	F1, F3	F, O
Dimensional	Hi-Precision Electronic Levels	Up to 200 Arc-Seconds	1 Sec of Arc (0.000 3°)	Gage Blocks, Surface Plate,10” Sine Bar	CP506	F1, F3	F, O
Dimensional	Bore Gages (2-Point)	Up to 12 in	(38 + 3.6D)	ULM and Gage Blocks	CP517	F1, F3	F, O
Dimensional	Bore Gages (3-Point)	Up to 12 in	(57.1 + 21.1D)	Ring Gages	CP517	F1, F3	F, O
Dimensional	Cylindrical Rings Gages	Up to 12 in	(17.3 + 5.3D)	Universal Length Measuring System, Gage Blocks	CP512	F1, F3	F
Dimensional	Cylindrical Plug Gages	Up to 12 in	(10.5 + 5.4D)	Universal Length Measuring System, Gage Blocks	CP508	F1, F3	F
Dimensional	Thread Plug, Set Plug Gages	Up to 4 in	(21 + 7.95D)	Universal Length Measuring System, 3-Wire Method, Gage Blocks	CP513	F1, F3	F
Dimensional	Optical Comparator, Toolmakers scope, Vision Systems (X Linearity)	20 in	(103 + 4.8L)	Gage Blocks, Glass Scales	CP511	F1, F3	F, O

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Dimensional	Optical Comparator, Toolmakers scope, Vision Systems (Y Linearity)	12 in	(103 + 4.8L)	Gage Blocks, Glass Scales	CP511	F1, F3	O
Dimensional	Optical Comparator, Toolmakers scope, Vision Systems (Magnification)	Up to 12 in image	(1866 + 175L)	Caliper and precision Scale Etch artifacts.	CP511	F1, F3	O
Dimensional	Optical Comparator, Toolmakers scope, Vision Systems (Screen Protractor Angle)	Azimuth to 360º Rotation	(3 MOA + 0.02 MOA/DEG)	Glass Scale W/Azimuth	CP511	F1, F3	O
Dimensional	Bench Micrometers, Universal Length Measuring Systems, Super-Micrometers	Up to 20 in	(32 + 13.6L)	Gage Blocks	CP509	F1, F3	F, O
Mechanical	Pressure Measuring Equipment (Pressure Gages, Manometers, Transmitters/Transducers)	-15 PSI to 10 000 PSI	(0.2 PSI + 0.001 PSI/PSI)	Additel 273 W/ 30 PSI Module 500 PSI Module 3 000 PSI Module 10 000 PSI Module	CP105 ASME B40	F1, F2, F3	F, O
Mechanical	Torque Wrenches, Drivers, Indicators and Watches	Up to 10 ozf•in	0.17 ozf•in + 0.015 ozf•in/oz•in	Portable Torque Testers	TTS CP523	F1, F3	F, O
Mechanical	Torque Wrenches, Drivers, Indicators and Watches	>0.625 lbf•in to 7 lbf•in	0.16 lbf•in + 0.08 lbf•in/lb•in	Portable Torque Testers	TTS CP523	F1, F3	F, O
Mechanical	Torque Wrenches, Drivers, Indicators and Watches	>7lbf•in to 70 lbf•in	0.13 lbf•in + 0.01 lbf•in/lb•in	Portable Torque Testers	TTS CP523	F1, F3	F, O
Mechanical	Torque Wrenches, Drivers, Indicators and Watches	>5.83 lbf•ft to 600 lbf•ft	1.63 lbf•ft + 0.02 lbf•ft/lb•ft	Portable Torque Testers	TTS CP523	F1, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type J)	-210°C to -100 °C	0.4 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type J)	-100 °C to 800 °C	0.2 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type J)	800°C to 1 200 °C	0.41 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type K)	-200°C to -100 °C	0.6 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type K)	-100°C to 400 °C	0.4 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type K)	400°C to 1 200 °C	0.4 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type K)	1 200 °C to 1 372°C	0.43 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type L)	-200 °C to -100 °C	0.41 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type L)	-100 °C to 800 °C	0.3°C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type L)	800 °C to 900 °C	0.3 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type N)	-200 °C to -100 °C	0.81 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type N)	-100 °C to 900 °C	0.96 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type N)	900 °C to 1 300 °C	0.72 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type R)	-20°C to 0 °C	1.5 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type R)	0 °C to 100 °C	1.4 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type R)	100 °C to 1 767 °C	1.1 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type S)	-20 °C to 0 °C	1.9 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type S)	0 °C to 200 °C	1.4 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type S)	200°C to 1 400 °C	1.1 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type S)	1 400 °C to 1 767 °C	1.2 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type T)	-250 °C to -200 °C	1.1 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O

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Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type T)	-200°C to 0 °C	0.6 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type T)	0 °C to 400 °C	0.44 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type U)	-200 °C to 0 °C	0.61 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	Temperature Calibration Indication and Control Equipment used with Thermocouple (Type U)	0 °C to 600 °C	0.49 °C	Fluke 754 Process Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type E)	-225 °C to -150 °C	0.43 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type E)	-150 °C to -25 °C	0.22 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O

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Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type E)	-25 °C to 350 °C	0.19 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type E)	350 °C to 650 °C	0.22 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type E)	650 °C to 1 000 °C	0.24 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102 Manufacturers Specifications	F1, F2, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type J)	-210 °C to -100 °C	0.27 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type J)	-100 °C to -30 °C	0.21 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type J)	-30 °C to 150 °C	0.18 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O

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Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type J)	150 °C to 760 °C	0.19 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type J)	760 °C to 1 200 °C	0.23 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type K)	-200 °C to -100 °C	0.53 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type K)	-100 °C to -25 °C	0.23 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type K)	-25 °C to 120 °C	0.18 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type K)	120°C to 1 000 °C	0.24°C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O

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Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type K)	1 000 °C to 1 372 °C	0.33 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type R)	0 °C to 250 °C	0.51 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type R)	250 °C to 400 °C	0.35 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type R)	400°C to 1 000 °C	0.32 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type R)	1 000°C to 1767 °C	0.38°C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type S)	0 °C to 250 °C	0.47 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O

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Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type S)	250 °C to 1 000 °C	0.36 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type S)	1 000 °C to 1 400 °C	0.37 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type S)	1 400 °C to 1 767 °C	0.44°C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type T)	-250 °C to -150 °C	0.51 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type T)	-150 °C to 0 °C	0.26 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type T)	0 °C to 120 °C	0.19 °C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O

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Contact Name: Ralph Caporelli Phone: 508-581-4133

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FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	TC Simulation Digital Thermometers, Process Calibrators, Temp Controllers, Chart Recorders (Type T)	120 °C to 400 °C	0.18°C	Fluke 5560A Multifunction Calibrator Electrical Simulation of Thermocouple Output	CP102	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	120 µA	100 µA/A + 0.006 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	1.2 mA	78 µA/A + 0.08 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	12 mA	78 µA/A + 0.8 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	120 mA	79 µA/A + 10 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	1.2 A	120 µA/A + 0.006 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	3.1 A	0.03 µA/A + 150 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	12 A	240 µA/A + 250 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Process Calibrators (DC Current)	30.2 A	780 µA/A + 500 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meter, Process Calibrators (DC Voltage)	120 mV	11 µV/V + 0.8 µV	Fluke 5560A Multifunction Calibrator	CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meter, Process Calibrators (DC Voltage)	1.2 V	8.5 µV/V + 1 µV	Fluke 5560A Multifunction Calibrator	CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meter, Process Calibrators (DC Voltage)	12 V	6.3 µV/V + 10 µV	Fluke 5560A Multifunction Calibrator	CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meter, Process Calibrators (DC Voltage)	120 V	8.7 µV/V + 100 µV	Fluke 5560A Multifunction Calibrator	CP104	F1, F3	F, O

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Electrical	DMMs, Clamp Meter, Process Calibrators (DC Voltage)	1 020 V	8.7 µV/V + 1 000 µV	Fluke 5560A Multifunction Calibrator	CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	120 µA	250 µA/A + 0.01 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1 kHz)	120 µA	210 µA/A + 0.01 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	120 µA	220 µA/A + 0.01 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 kHz to 10 kHz)	120 µA	1 200 µA/A + 0.04 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 10 kHz to 30 kHz)	120 µA	4 000 µA/A + 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	1.2 mA	200 µA/A + 0.1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1 kHz)	1.2 mA	200 µA/A + 0. 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	1.2 mA	200 µA/A + 0. 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 kHz to 10 kHz)	1.2 mA	200 µA/A + 0. 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 10 kHz to 30 kHz)	1.2 mA	3 900 µA/A + 5 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope s (AC Current) (@ 3 Hz to 45 Hz)	12 mA	200 µA/A + 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1 kHz)	12 mA	200 µA/A + 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	12 mA	200 µA/A + 1 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 kHz to 10 kHz)	12 mA	1 200 µA/A + 1µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 10 kHz to 30 kHz)	12 mA	3 900 µA/A + 10 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	120 mA	200 µA/A + 10 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1 kHz)	120 mA	130 µA/A + 5 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope s (AC Current) (@ 1 kHz to 5 kHz)	120 mA	200 µA/A + 8 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 kHz to 10 kHz)	120 mA	1 200 µA/A + 10 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 10 kHz to 30 kHz)	120 mA	3 900 µA/A + 100 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	1.2 A	210 µA/A + 100 µ	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1 kHz)	1.2 A	210 µA/A + 50 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	1.2 A	210 µA/A + 80 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 kHz to 10 kHz)	1.2 A	1 200 µA/A + 300 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 10 kHz to 30 kHz)	1.2 A	3 900 µA/A + 300 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	3.1 A	400 µA/A + 500 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1 kHz)	3.1 A	370 µA/A + 300 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	3.1 A	400 µA/A + 300 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 k Hz to 10 kHz)	3.1 A	1 900 µA/A + 500 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	12 A	300 µA/A + 1 000 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 kHz to 1 kHz)	12 A	240 µA/A + 500 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	12 A	300 µA/A + 800 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 5 kHz to 10 kHz)	12 A	1 900 µA/A + 1 000 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 3 Hz to 45 Hz)	30.2 A	530 µA/A + 10 000 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 45 Hz to 1kHz)	30.2 A	370 µA/A + 8 000 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Current) (@ 1 kHz to 5 kHz)	30.2 A	3 000 µA/A + 8 000 µA	Fluke 5560A Multifunction Calibrator	CP116	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	12 mV	1700 µV/V + 7 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 5 Hz to 10 Hz)	12 mV	670 µV/V + 7 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 20 kHz)	12 mV	290 µV/V + 6 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 20 kHz to 50 kHz)	12 mV	420 µV/V + 6 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 50 kHz to 100 kHz)	12 mV	1 100 µV/V + 15 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 100 kHz to 300 kHz)	12 mV	5 500 µV/V + 30 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 300 kHz to 500 kHz)	12 mV	5 500 µV/V + 30 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	120 mV	1 600 µV/V + 7 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 5 Hz to 10 Hz)	120 mV	570 µV/V + 7 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 20 kHz)	120 mV	100 µV/V + 6 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 20 kHz to 50 kHz)	120 mV	230 µV/V + 8 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 50 kHz to 100 kHz)	120 mV	530 µV/V + 20 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 100 kHz to 300 kHz)	120 mV	1 400 µV/V + 30 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 300 kHz to 500 kHz)	120 mV	1 700 µV/V + 30 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	1.2 V	1 900 µV/V + 75 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 5 Hz to 10 Hz)	1.2 V	690 µV/V + 70 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 40 Hz)	1.2 V	130 µV/V + 60 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 40.01 Hz to 20 kHz)	1.2 V	210 µV/V + 8 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 20 kHz to 50 kHz)	1.2 V	290 µV/V + 14 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 50 kHz to 100 kHz)	1.2 V	570 µV/V + 40 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 100 kHz to 300 kHz)	1.2 V	1 600 µV/V + 80 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 300 kHz to 500 kHz)	1.2 V	2 900 µV/V + 80 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	12 V	1 900 µV/V + 750 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 5 Hz to 10 Hz)	12 V	690 µV/V + 750 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 40 Hz)	12 V	120 µV/V + 350 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 40.01Hz to 20 kHz)	12 V	120 µV/V + 50 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 20 kHz to 50 kHz)	12 V	240 µV/V + 50 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 50 kHz to 100 kHz)	12 V	540 µV/V + 130 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 100 kHz to 300 kHz)	12 V	1 600 µV/V + 600 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 300 kHz to 500 kHz)	12 V	1 600 µV/V + 600 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	120 V	1 900 µV/V + 7.5 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 5 Hz to 10 Hz)	120 V	570 µV/V + 7.5 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 20 kHz)	120 V	110 µV/V + 3.5 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 20 kHz to 50 kHz)	120 V	150 µV/V + 0.5 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 50 kHz to 100 kHz)	120 V	150 µV/V + 0.5 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 100 kHz to 300 kHz)	120 V	920 µV/V + 20 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	330 V	1 900 µV/V + 75 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 5 Hz to 10 Hz)	330 V	680 µV/V + 75 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 20 kHz)	330 V	130 µV/V + 8 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 20 kHz to 50 kHz)	330 V	240 µV/V + 8 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 50 kHz to 100 kHz)	330 V	1 200 µV/V + 13 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 3 Hz to 5 Hz)	1 020 V	200 µV/V + 75 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@5 Hz to 10 Hz)	1 020 V	260 µV/V + 75 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O

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Tripoint Technical Services

11 Depot Street, South Grafton, MA 01560
Contact Name: Ralph Caporelli Phone: 508-581-4133

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Electrical	DMMs, Clamp Meters, Oscilloscope (AC Voltage) (@ 10 Hz to 10 kHz)	1 020 V	14 µV/V + 80 000 µV	Fluke 5560A Multifunction Calibrator	TTS CP104	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	12 Ω	0.01 Ω	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	120 Ω	20 µΩ/ Ω + 0.015 Ω	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	1. 2kΩ	19 µΩ/ Ω + 0.02 Ω	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	12 kΩ	19 µΩ/ Ω + 0.2 Ω	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	120 kΩ	19 µΩ/ Ω + 1 Ω	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	1.2 MΩ	0.004 3 µΩ/ Ω +0.01 kΩ	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	12 MΩ	47 µΩ/ Ω + 0.15 kΩ	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	120 MΩ	340 µΩ/ Ω + 2.5 kΩ	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (DC Resistance)	1 200 MΩ	31 000 µΩ/ Ω + 100 kΩ	Fluke 5560A Multifunction Calibrator,	CP110	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	1.2 nF	4 400 µF/F + 0.002 nF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	12 nF	1 100 µF/F + 0.005 nF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	120 nF	1 100 µF/F + 0.03 nF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	1.2 µF	1 100 µF/F + 0.000 3 µF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O

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Electrical	LCR Meters, DMMs (Capacitance)	12 µF	1 000 µF/F + 0.003 µF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	120 µF	1 400 µF/F + 0.025 µF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	1.2 mF	2 200 µF/F + 0.000 25 mF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	12 mF	2 000 µF/F + 0.003 mF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	LCR Meters, DMMs (Capacitance)	120 mF	3 900 µF/F + 0.03 mF	Fluke 5560A Multifunction Calibrator,	TTS CP123	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage Power Supplies, Function Generators, Process Calibrators, Field Test Instruments	Up to 200 mV	8.9 µV/V + 0.42 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage Power Supplies, Function Generators, Process Calibrators, Field Test Instruments	(>0.2 to 2) V	3.3 µV/V + 0.38 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage Power Supplies, Function Generators, Process Calibrators, Field Test Instruments	(>2 to 20) V	3.4 µV/V + 1.3 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage Power Supplies, Function Generators, Process Calibrators, Field Test Instruments	(>20 to 200) V	4.8 µV/V +38 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure DC Voltage Power Supplies, Function Generators, Process Calibrators, Field Test Instruments	(>200 to 1 050) V	5 µV/V + 580µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	Up to 20 µA	45 µA/A + 0.4 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	(>20 to 200) µA	14µA/A + 0.41 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	(>0.2 to 2) mA	13 µA/A + 4.1 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	(>2 to 20) mA	18 µA/A + 41 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	(>20 to 200) mA	60 µA/A + 1 µA	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	(>0.2 to 2) A	130 µA/A + 100 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DC Current Power Supplies, Process Calibrators, Current Clamp Probes, Field Test Instruments	(>2 to 20) A	240 µA/A + 400 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	Up to 2 Ω	19 µΩ/Ω + 4.5 µΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>2 to 20) Ω	11 µΩ/Ω + 19 µΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>20 to 200) Ω	9.5 µΩ/Ω + 100 µΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>0.2 to 2) kΩ	9.5 µΩ/Ω + 1 mΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>2 to 20) kΩ	9.5 µΩ/Ω + 10 mΩ	Fluke 8588A	TTS CP110	F1, F3	F, O

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Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>20 to 200) kΩ	10 µΩ/Ω + 100 mΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>0.2 to 2) MΩ	12 µΩ/Ω + 1.5 Ω	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>2 to 20) MΩ	21 µΩ/Ω + 110 Ω	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>20 to 200) MΩ	130 µΩ/Ω + 10 kΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure DCR Process Calibrators, Resistance Decades, Shunts	(>0.2 to 2) GΩ	0.13 % + 1 MΩ	Fluke 8588A	TTS CP110	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 2 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	Up to 10mV	350 µV/V + 1.1 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	Up to 10mV	410 µV/V + 1.1 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	Up to 10mV	420 µV/V + 1.1 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	Up to 10mV	0.3 % + 1.1 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	Up to 10mV	0.96 % + 4 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 0.3 MHz to 1 MHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	Up to 10mV	2.1 % + 4 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 2 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) mV	110 µV/V + 0.5 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) mV	140 µV/V + 0.5 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) mV	240 µV/V + 1 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) mV	0.054 % + 5 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) mV	0.22 % + 30 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.3 MHz to 1 MHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) mV	1.1 % + 100 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@10 Hz to 2 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>0.1 to 1) V	81 µV/V + 5 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>0.1 to 1) V	130 µV/V + 5 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 30 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>0.1 to 1) V	230 µV/V + 10 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>0.1 to 1) V	0.054 % + 50 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>0.1 to 1) V	0.22 % + 300 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 0.3 MHz to 1 MHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>0.1 to 1) V	1 % + 1mV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@10 Hz to 2 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>1 to 10) V	81 µV/V + 50 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>1 to 10) V	130 µV/V + 50 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	(Equipment to Measure AC Voltage (@ 10kHz to 30 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>1 to 10) V	230 µV/V + 100 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>1 to 10) V	0.054 % + 500 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 300 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>1 to 10) V	0.22 % + 3 mV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 0.3 MHz to 1 MHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>1 to 10) V	1 % + 10 mV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 2 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) V	95 µV/V + 500 µV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) V	120 µV/V + 500 µV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10kHz to 30 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) V	250 µV/V + 1 mV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 30 kHz to 100 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>10 to 100) V	0.061 % + 5 mV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 2 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>100 to 1 000) V	140 µV/V + 25 mV	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 2 kHz to 10 kHz) Power Supplies, Function Generators, Multifunction Calibrators, Variable Voltage Generators	(>100 to 1 000) V	140 µV/V + 25 mV	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	Up to 10 µA	0.22 % + 2.5 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	Up to 10 µA	0.22 % + 2.5 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz) AC Power Sources, SC Current Probes, Process Calibrators	Up to 10 µA	0.23 % + 2.5 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 100) µA	320 µA/A + 5 nA	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 100) µA	550 µA/A + 5 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 100) µA	840 µA/A + 5 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>0.1 to 1) mA	300 µA/A + 50 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>0.1 to 1) mA	540 µA/A + 50 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>0.1 to 1) mA	820 µA/A + 50 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>1 to 10) mA	290 µA/A + 500 nA	Fluke 8588A	TTS CP104	F1, F3	F, O

Certificate of Accreditation: Supplement

Tripoint Technical Services

11 Depot Street, South Grafton, MA 01560
Contact Name: Ralph Caporelli Phone: 508-581-4133

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>1 to 10) mA	530 µA/A + 500 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz AC Power Sources, SC Current Probes, Process Calibrators	(>1 to 10) mA	820 µA/A + 500 nA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 100) mA	290 µA/A + 5 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 100) mA	520 µA/A + 5 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 100) mA	950 µA/A + 5 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>0.1 to 1) A	370 µA/A + 100 µA	Fluke 8588A	TTS CP104	F1, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>0.1 to 1) A	690 µA/A + 100 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>0.1 to 1) A	0.1% + 100 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>1 to 10) A	950 µA/A + 500 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>1 to 10) A	950 µA/A + 500 µA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@10 Hz to 2 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 30) A	0.12 % + 12 mA	Fluke 8588A	TTS CP104	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 2 kHz to 10 kHz) AC Power Sources, SC Current Probes, Process Calibrators	(>10 to 30) A	0.16 % + 12 mA	Fluke 8588A	TTS CP104	F1, F3	F, O

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Mass, Force, and Weighing Devices	Balance	1 Gram to 50 Grams	0.000 26 Gram	Class 1 Weights	TTS Procedure#109 NIST Handbook 44	F1, F2, F3	F, O
Mass, Force, and Weighing Devices	Scales	Up to 100 kg	(0.000 1 kg + 0.000 06 kg/kg)	Class M1 Weights	TTS Procedure#109 NIST Handbook 44	F1, F2, F3	F, O
Mass, Force, and Weighing Devices	Scales	Up to 500 lb	(0.12 lb + 0.000 3 lb/lb)	Class 6 Weights	TTS Procedure#109 NIST Handbook 44	F1, F2, F3	F, O

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.