PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ACS, American Calibration Services EIRL Malek Multiservicios, SRL

Calle Atalaya, Res. Santisima Trinidad II, Suite N303, La Julia, Santo Domingo, CP 10108

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:

Acoustic, Chemical, Dimensional, Electrical, Mass, Force and Weighing Devices, Mechanical, Thermodynamic, and Time & Frequency 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.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
May 07, 2021	March 29, 2025	July 31, 2027

Accreditation No.:	*Certificate No.:*
114217	L25-259

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

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

Certificate of Accreditation: Supplement

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Calle Atalaya, Res. Santisima Trinidad II, Suite N303, La Julia,
Santo Domingo, CP 10108
Contact Name: Alfred Malek Phone: 809-747-8649

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)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Acoustic	Sound Level Meter	1.6 dB to 125 dB	4 dB	Quest Electronics	OEM Procedures	F, O
Acoustic	Sound Level Meter	94 dB to 114 dB	0.4 dB	General Radio	OEM Procedures	F, O
Chemical	pH Meters (fixed points)	4 pH	0.03 pH	pH Buffers	OEM Procedures	F, O
Chemical	pH Meters (fixed points)	7 pH	0.04 pH	pH Buffers	OEM Procedures	F, O
Chemical	pH Meters (fixed points)	10 pH	0.03 pH	pH Buffers	OEM Procedures	F, O
Chemical	Conductivity Meters (@ 25°C)	10 µS/cm	0.69 µS/cm	Conductivity Solutions	OEM Procedures	F, O
Chemical	Conductivity Meters (@ 25°C)	100 µS/cm	2.7 µS/cm	Conductivity Solutions	OEM Procedures	F, O
Chemical	Conductivity Meters (@ 25°C)	1 000 µS/cm	6.6 µS/cm	Conductivity Solutions	OEM Procedures	F, O
Chemical	Conductivity Meters (@ 25°C)	10 000 µS/cm	15 µS/cm	Conductivity Solutions	OEM Procedures	F, O
Chemical	Water Density Meter	Up to 3 g/cm3	1g/cm3 a	Biologix, PCRRT-PCR Certified Water-1.8 ml vials Lot# WS01AB19 Standard Anton Parr DMA4500/Winchester Model 1, Fluke 754B	OEM Procedures	F, O
Chemical	Gas Analyzer (Hydrogen sulfide)	1 µmol/mol to 25 µmol/mol	5 % of reading	Gas standards	OEM Procedures	F, O
Chemical	Gas Analyzer (Carbon monoxide)	1 µmol/mol to 100 µmol/mol	5 % of reading	Gas standards	OEM Procedures	F, O
Chemical	Gas Analyzer (Pentane)	25 % LEL	5 % of reading	Gas standards	OEM Procedures	F, O
Chemical	Gas Analyzer (Oxygen)	18 % VOL	5 % of reading	Gas standards	OEM Procedures	F, O

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Dimensional	Micrometers	Up to 12 in	(33.4 + 4.4L) µin	Gage Blocks, Parallels	CP0000	F, O
Dimensional	Calipers	Up to 12 in	(341 + 4.3L) µin	Gage Blocks	CP0000	F, O
Dimensional	Indicators	Up to 2 in	(67 + 19L) µin	Micrometer Head Cal Unit, Blocks	CP0000	F, O
Dimensional	Height Gages	Up to 12 in	(281 + 10L) µin	Gage Blocks	CP0000	F, O
Dimensional	Gage Blocks	Up to 4 in	20 µin	Comparator/Master Blocks	CP0030	F
Dimensional	Pin Gage	0.011 in to 2 in	(120 + 22L) µin	LSM 301	CP0100	F, O
Dimensional	Rulers & Tapes	Up to 48 in	(290 + 4.6L) µin	Ceramic Gage Blocks	CP0000	F, O
Dimensional	Laser Micrometer	0.01 in to 1 in	34 µin	Class xx pin gages	CP0048	F
Dimensional	Microscopes	1 mm to 25 mm	1.2 µm	Stage Micrometer Calibration Slide KR-812	CP0102	F
Dimensional	Optical Comparator (Magnification)	10x	0.05 %	Magnification Checker	OEM/ NAVAIR17-20MD-63	O
Dimensional	Optical Comparator (Magnification)	20x	0.026 %	Magnification Checker	OEM/ NAVAIR17-20MD-63	O
Dimensional	Optical Comparator (Magnification)	50x	0.015 %	Magnification Checker	OEM/ NAVAIR17-20MD-63	O
Dimensional	Optical Comparator (Linear)	Up to 12 in	0.000 2 in	Glass artifact, Gage Blocks, Step Gage, Indicator	OEM/ NAVAIR17-20MD-63	O
Dimensional	Optical Comparator (Angular)	1 ° to 360 °	0.2 degree	Glass artifact, Steel Rule	OEM/ NAVAIR17-20MD-63	O
Dimensional	Vision System (X & Y Axis Linearity)	Up to 12 in	0.000 2 in	Glass Grid	OEM	O

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Dimensional	Vision Systems (Z Axis Linearity)	Up to 12 in	0.000 2 in	Glass Grid	OEM	O
Time and Frequency	Stopwatch	2.8 s to 24 hr	0.24 s	Control Company Model 1051	CP0074	F, O
Thermodynamic	Infrared Thermometers and Pyrometers	-20 °C to 550 °C	3 °C	ISOTech Gemini I, Ametek COOl Model 976OEM, Fluke 1502A	OEM Procedures, CP-037-3	F, O
Thermodynamic	Equipment to Measure Humidity	Up to 85 % RH	1.2 % RH	Relative humidity meter Vaisala hmc 20 with hmp20 b probe/ Control Company Model 244-355	OEM Procedures, CP-037-3	F, O
Electrical	Equipment to Output DC Voltage	5.3 mV to 20 mV	5.36 µV + 11.56 µV/mV	Multimeter-Fluke 8842A Fluke 754A	OEM Procedures	F, O
Electrical	Equipment to Output DC Voltage	20 mV to 200 mV	8.1 µV + 99.9 µ V/mV	Multimeter-Fluke 8842A Fluke 754A	OEM Procedures	F, O
Electrical	Equipment to Output DC Voltage	200 mV to 2 V	18 µV + 68.5 µV/mV	Multimeter-Fluke 8842A Fluke 754A	OEM Procedures	F, O
Electrical	Equipment to Output DC Voltage	2 V to 20 V	419 µV + 67 µV/ mV	Multimeter-Fluke 8842A Fluke 754A	OEM Procedures	F, O
Electrical	Equipment to Output DC Voltage	20 V to 200 V	1.6 µV + 0.06 mV/ V	Multimeter-Fluke 8842A Fluke 754A	OEM Procedures	F, O

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Electrical	Equipment to Output DC Voltage	200 V to 1 000 V	35 µV + 0.09 mV/ V	Multimeter- Fluke 8842A Fluke 754A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Current	15 µA to 200 µA	5.1 µA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Current	0.2 mA to 2 mA	0.041 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Current	2 mA to 20 mA	0.41 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Current	20 mA to 200 mA	4.1 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Current	0.2 A to 2 A	41 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Output DC Current	1 mA to 10 mA	47 µA + 840 µA/A	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Current	10 mA to 200 mA	48 µA + 909 µA/A	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Current	200 mA to 2 A	41 µA + 1.1 mA/A	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Current	2 A to 10 A	0.42 mA + 16 mA/A	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Resistance	5 Ω to 200 Ω	0.048 mΩ + 0.17 mΩ/Ω	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Resistance	200 Ω to 2 kΩ	0.049 mΩ + 0.137 mΩ/Ω	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Resistance	2 kΩ to 20 kΩ	376 mΩ + 0.115 mΩ/Ω	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Resistance	20 kΩ to 200 kΩ	3.7 Ω + 14 µΩ/Ω	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Resistance	200 kΩ to 2 MΩ	39.7 Ω + 0.345 mΩ/Ω	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output DC Resistance	2 MΩ to 20 MΩ	160 Ω + 1 mΩ/Ω	DMM Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)	1 mV to 20 mV	0.07 % of reading + 0.120 5 mV	Fluke 5502A	OEM Procedures	F, O

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Electrical	Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)	20 mV to 200 mV	0.07 % of reading + 1.205 mV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)	0.2 V to 2 V	0.07 % of reading + 0.012 05 V	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)	2 V to 20 V	0.05 % of reading + 0.100 5 V	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)	20 V to 200 V	0.05 % of reading + 1.005 V	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 Hz to 10 kHz)	200 V to 1 100 V	0.05 % of reading + 5.500 5 V	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Current (@ 50 Hz to 1 kHz)	20 µA to 200 µA	0.25 % of reading + 0.5 µA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Current (@ 50 Hz to 1 kHz)	0.2 mA to 2 mA	0.25 % of reading + 0.005 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Current (@ 50 Hz to 1 kHz)	2 mA to 20 mA	0.25 % of reading + 0.05 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Current (@ 50 Hz to 1 kHz)	20 mA to 200 mA	0.25 % of reading + 0.5 mA	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Current (@ 50 Hz to 1 kHz)	0.2 A to 2 A	0.25 % of reading + 0.005 A	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Output AC Current (@ 3 Hz to 5 Hz)	0.07 A to 1 A	3.2 µA+ 0.03 mA/A	Multimeter-Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output AC Current (@ 5 Hz to 10 Hz)	0.07 A to 1 A	3.6 µA+ 0.008 mA/A	Multimeter-Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 5 kHz)	0.07 A to 1 A	3.7 µA+ 0.007 mA/A	Multimeter-Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output AC Current (@ 3 Hz to 5 Hz)	1 A to 3 A	27 µA + 0.007 mA/A	Multimeter-Fluke 8842A	OEM Procedures	F, O

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Electrical	Equipment to Output AC Current (@ 5 Hz to 10 Hz)	1 A to 3 A	7.1 mA + 2.3 mA/A	Multimeter- Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 5 kHz)	1 A to 3 A	6.7 mA + 1.9 mA/A	Multimeter- Fluke 8842A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	0.35 % of reading + 20 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	0.15 % of reading + 20 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	0.2 % of reading + 20 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	0.25 % of reading + 20 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	0.35 % of reading + 33 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	1 % of reading + 60 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.25 % of reading + 50 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	0.05 % of reading + 20 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.1 % of reading + 20 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	0.16 % of reading + 40 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	0.24 % of reading + 170 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.7 % of reading + 330 µV	Fluke 5502A	OEM Procedures	F, O

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Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	330 mV to 3.3 V	0.15 % of reading + 250 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	330 mV to 3.3 V	0.03 % of reading + 60 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	330 mV to 3.3 V	0.08 % of reading + 60 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	330 mV to 3.3 V	0.14 % of reading + 300 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	330 mV to 3.3 V	0.24 % of reading + 1 700 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	330 mV to 3.3 V	0.5 % of reading + 3 300 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.15 % of reading + 2 500 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	0.04 % of reading + 600 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.08 % of reading + 2 600 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.19 % of reading + 5 000 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.19 % of reading + 5 000 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	0.24 % of reading + 17 000 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	0.05 % of reading + 6.6 mV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	0.08 % of reading + 15 mV	Fluke 5502A	OEM Procedures	F, O

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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.09 % of reading + 33 mV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	0.05 % of reading + 80 mV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	33 V to 330 V	0.2 % of reading + 100 mV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz)	33 V to 330 V	0.2 % of reading + 500 mV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Voltage	1 mV to 330 mV	0.006 % of reading + 3 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Voltage	330 mV to 3.3 V	0.005 % of reading + 5 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	0.005 % of reading + 50 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Voltage	50 V to 300 V	0.005 % of reading + 500 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure DC Voltage	100 V to 1 000 V	0.005 % of reading + 1 500 µV	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	0.33 nF to 0.5 nF	0.5 % of reading + 0.01 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	0.5 nF to 1.1 nF	0.5 % of reading + 0.01 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	1.1 nF to 3.3 nF	0.5 % of reading + 0.01 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	3.3 nF to 11 nF	0.5 % of reading + 0.01 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	11 nF to 33 nF	0.25 % of reading + 0.1 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	33 nF to 110 nF	0.25 % of reading + 0.1 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	110 nF to 330 nF	0.25 % of reading + 0.3 nF	Fluke 5502A	OEM Procedures	F, O

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Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	0.33 µF to 1.1 µF	0.25 % of reading + 1 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	1.1 µF to 3.3 µF	0.35 % of reading + 3 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	3.3 µF to 11 µF	0.35 % of reading + 10 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	11 µF to 33 µF	0.4 % of reading + 30 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	33 µF to 110 µF	0.5 % of reading + 100 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	110 µF to 330 µF	0.7 % of reading + 300 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Capacitance (@ 50 Hz to 1 000 Hz)	330 µF to 1.1 mF	1 % of reading + 300 nF	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	1 Ω to 11 Ω	0.012 % of reading + 0.008 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 33 Ω	0.012 % of reading + 0.015 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	33 Ω to 330 Ω	0.009 % of reading + 0.015 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	330 Ω to 3.3 kΩ	0.009 % of reading + 0.006 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	3.3 kΩ to 33 kΩ	0.009 % of reading + 0.6 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	33 kΩ to 110 kΩ	0.011 % of reading + 6 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	110 kΩ to 330 kΩ	0.012 % of reading + 6 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	330 kΩ to 3.3 MΩ	0.012 % of reading + 55 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	3.3 MΩ to 11 MΩ	0.006 % of reading + 550 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	11 MΩ to 33 MΩ	0.1 % of reading + 550 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	33 MΩ to 110 MΩ	0.5 % of reading + 5 500 Ω	Fluke 5502A	OEM Procedures	F, O
Electrical	Equipment to Measure Resistance	110 MΩ to 330 MΩ	0.5 % of reading + 16 500 Ω	Fluke 5502A	OEM Procedures	F, O

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Calle Atalaya, Res. Santisima Trinidad II, Suite N303, La Julia,
Santo Domingo, CP 10108
Contact Name: Alfred Malek Phone: 809-747-8649

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)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type J	-210 °C to -100 °C	0.69 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type J	-100 °C to -30 °C	0.67 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type J	-30 °C to 150 °C	0.69 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type J	150 °C to 760 °C	0.91 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type J	760 °C to 1 200 °C	1.1 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	-200 °C to -100 °C	0.82 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	-100 °C to -25 °C	0.82 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	-25 °C to 120 °C	0.92 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	120 °C to 1 000 °C	1.1 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	1 000 °C to 1 372 °C	1.3 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type T	-250 °C to -150 °C	0.84 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type T	-150 °C to 0 °C	0.82 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type T	0 °C to 120 °C	0.86 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type T	120 °C to 400 °C	0.84 °C	Electrical Simulation of Thermocouple Output Using Fluke 5502A	OEM Procedures 33K5-4-521-1	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	-180 ºC	0.29 °C	Electrical Simulation of Thermocouple Output Using Fluke 754	OEM Procedures	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	0.0 ºC	0.13 °C	Electrical Simulation of Thermocouple Output Using Fluke 754	OEM Procedures	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with Thermocouple Type K	1 300 ºC	0.15 °C	Electrical Simulation of Thermocouple Output Using Fluke 754	OEM Procedures	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with RTD 100 ΩF Type Pt 385	-180 ºC	0.062 ºC	Electrical Simulation of Thermocouple Output Using Fluke 754	OEM Procedures	F, O

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Electrical	Temperature Calibration, Indication, and Control Equipment use with RTD 100 ΩF Type Pt 385	100 ºC	0.031 ºC	Electrical Simulation of Thermocouple Output Using Fluke 754	OEM Procedures	F, O
Electrical	Temperature Calibration, Indication, and Control Equipment use with RTD 100 ΩF Type Pt 385	780 ºC	0.052 ºC	Electrical Simulation of Thermocouple Output Using Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with RTD Source 100 OHM Type Pt 385	27.096	0.3 Ohm	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with RTD Source 100 OHM Type Pt 385	138.505 Ω	2.3 Ω	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with RTD Source 100 OHM Type Pt 385	369.712 Ω	8.0 Ω	Fluke 754	OEM Procedures	F, O
Electrical	Loop Power Source	26V	5.8 V	Fluke 754	OEM Procedures	F, O
Electrical	VDC Measurement Devices	Up to 3 V	0.003 5 V	Fluke 754	OEM Procedures	F, O
Electrical	VDC Measurement Devices	3.1V to 30V	0.028 V	Fluke 754	OEM Procedures	F, O
Electrical	VDC Measurement Devices	30.1 V to 100 V	2.5 V	Fluke 754	OEM Procedures	F, O
Electrical	VDC Measurement Devices	100.1V to 295.0 V	8.2 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (3V @ 500 Hz)	Up to 3V	0.008 1 V	Fluke 754	OEM Procedures	F, O

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Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (3 V @ 40 Hz)	Up to 3V	0.007 6 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (30 V @ 500 Hz)	Up to 30 V	0.094 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (30 V @ 40 HZ)	Up to 30.00 V	0.076 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (300 V @ 500 Hz)	Up to 290.00 V	0.83 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (300 V @ 40 Hz)	Up to 27.00 V	0.076 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with AC Voltage Measure (300 V @ 50 Hz)	295V	0.97 V	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Continuous Corrected intensity measurements (@ 30 mA)	4.00 mA	7.7 mA	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Continuous Corrected intensity measurements (@ 30 mA)	20.00 mA	1.8 mA	Fluke 754	OEM Procedures	F, O

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Electrical	Calibration, Indication, and Control Equipment use with Continuous Corrected intensity measurements (@ 30 mA)	30 mA	2.6 mA	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Continuous Corrected intensity measurements (@ 100 mA)	0.00 mA	5.9 mA	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Continuous Corrected intensity measurements (@ 100 mA)	100.00 mA	1.1 mA	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Resistance Measure (@ 10 Ohm)	0.00 Ω	9.7 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Resistance Measure (@ 10 Ohm)	10.000 Ω	1.2 Ω	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Resistance Measure (@ 10k Ohm)	0.000 k Ω	5.8 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Calibration, Indication, and Control Equipment use with Resistance Measure (@ 10 kOhm)	10.000 k Ω	6.2 Ω	Fluke 754	OEM Procedures	F, O
Electrical	Equipment to Measure Frequency (@ 300 mV)	10.00 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Electrical	Equipment to Measure Frequency (@ 300 mV)	150 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O

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Electrical	Equipment to Measure Frequency (@ 1 V)	1 200 kHz	6.8 kHz	Fluke 754	OEM Procedures	F, O
Electrical	Equipment to Measure Frequency (@ 1 V)	12 kHz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Electrical	Equipment to Measure Frequency (@ 2 V)	49 kHz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Electrical	Continuous Voltage Source Measure Devices (@ 100 mV)	10.000 mV	6.4 mV	Fluke 754	OEM Procedures	F, O
Electrical	Continuous Voltage Source Measure Devices (@ 100 mV)	100.000 mV	9.2 mV	Fluke 754	OEM Procedures	F, O
Electrical	Continuous Voltage Source Measure Devices	0.1 V	5.8 mV	Fluke 754	OEM Procedures	F, O
Electrical	Continuous Voltage Source Measure Devices (@ 1 V)	1 V	5.3 mV	Fluke 754	OEM Procedures	F, O
Electrical	Continuous Voltage Source Measure Devices (@ 15 V)	1 V	5.3 mV	Fluke 754	OEM Procedures	F, O
Electrical	Continuous Voltage Source Measure Devices(@ 15 V)	10 V	6.5 mV	Fluke 754	OEM Procedures	F, O
Electrical	DC Current Source Devices (@ 22 mA)	2.000 mA	5.8 mA	Fluke 754	OEM Procedures	F, O
Electrical	DC Current Source Devices (@ 22 mA)	4.000 mA	6.5 mA	Fluke 754	OEM Procedures	F, O
Electrical	DC Current Source Devices (@ 22 mA)	12.000 mA	6.6 mA	Fluke 754	OEM Procedures	F, O
Electrical	DC Current Source Devices (@ 22 mA)	21.000 mA	2.4 A	Fluke 754	OEM Procedures	F, O
Electrical	Transmission Simulation Measure Devices A	4.000 mA	6.5 mA	Fluke 754	OEM Procedures	F, O

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Electrical	Transmission Simulation Measure Devices A	22.000 mA	2.4 mA	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 10 Ohm)	1 Ω	5.8 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 10 Ohm)	10 Ω	6.8 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 100 Ohm)	20 Ω	5.8 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 100 Ohm)	100 Ω	6.0 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 200 Ohm)	200 Ω	5.8 Ω	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 200 Ohm)	1 000 Ω	6.0 Ω	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 10 kOhm)	2 kΩ	5.9 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Resistance Source Measure Devices (@ 10 kOhm)	10 kΩ	6.7 uΩ	Fluke 754	OEM Procedures	F, O
Electrical	Frequency Source Devices (@ 11 Hz) (@ 1 vpp)	5.00 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Electrical	Frequency Source Devices (@ 1 100 Hz) (@ 1 vpp)	1 000 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Electrical	Frequency Source Devices (@ 22 kHz) (@ 7.5 vpp)	110 Hz	5.8 kHz	Fluke 754	OEM Procedures	F, O
Electrical	Frequency Source Devices (@ 50 kHz) (@ 1 vpp)	49 kHz	5.8 kHz	Fluke 754	OEM Procedures	F, O
Electrical	Equipment to Measure Square Wave Devices (@ 1 vpp)	5 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O

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Electrical	Equipment to Measure Square Wave Devices (@ 1 vpp)	1 000 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Electrical	Equipment to Measure Square Wave Devices (@ 7.5 vpp)	50 Hz	5.8 Hz	Fluke 754	OEM Procedures	F, O
Mass, Force, and Weighing Devices	Analytical Balances/Scales	1 mg to 200 g	0.85 mg	ASTM -E617-18 Class 000 Weight Standards	OEM Procedures	F, O
Mass, Force, and Weighing Devices	Industrial Scales and Balances	5 lb to 20 000 lb	14 lb	Class F Weight Standards	NIST Handbook 44	F, O
Mass, Force, and Weighing Devices	Balances	1 g to 1 kg	0.85 g	Class 1 Weight Kit	OEM Procedures	F, O
Mass, Force, and Weighing Devices	Balances	1 kg to 20 kg	32 mg	Class F Weight Standards	NIST Handbook 44	F, O
Mechanical	Torque Wrenches	Up to 3 000 N/m	0.3 % of reading	Fluke 8041	CP0059 CP0085 CP0092	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	20 HRC to 30 HRC	0.57 HRC	ASTM E 18 and calibrated Rockwell Hardness Test Blocks	CP0114	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	30 HRC to 60 HRC	0.57 HRC	ASTM E 18 and calibrated Rockwell Hardness Test Blocks	CP0114	F, O
Mechanical	Indirect Verification of Rockwell Hardness Testers HRC	60 HRC to 65 HRC	0.58 HRC	ASTM E 18 and calibrated Rockwell Hardness Test Blocks	CP0114	F, O

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Mechanical	Burettes, Graduate cylinders, Test tube A· Pipet A	100 µL to 200 µL	0.11 µL	Sartorius Micro Balance. Gravimetric record reference to mass balances	CP0116	F, O
Mechanical	Burettes, Graduate cylinders, Test tube A· Pipet A	200 µL to 2 000 µL	1.5 µL	Sartorius Micro Balance. Gravimetric record reference to mass balances	CP0116	F, O
Mechanical	Burettes, Graduate cylinders, Test tube A· Pipet A	2 000 µL to 10 000 µL	4.9 µL	Sartorius Micro Balance. Gravimetric record reference to mass balances	CP0116	F, O
Mechanical	Pressure Gauges	10 psig to 10 000 psig	0.72 % of reading + 2.5 psi	Additel 681-02-GP10K-PSI-N Fluke 7700	CP0093 CP0056	F, O
Mechanical	Vacuum Gauges	-12 psi to 1 psi	1 % of reading + 0.56 psi	Heis PTE-1 33k6-4-430-1	CP0061	F, O

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

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.

6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.