



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid To: December 31, 2024

Certificate Number: 3081.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1, 6}:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC ^{2, 3, 4} (±)	Comments
DC Charge – Measure	(0.1 to 2000) mA (0.01 to 20) s	0.14 % 0.14 %	Direct comparison to NMI accredited charge
DC Current – Measure	(0.1 to 2000) mA	0.15 %	Direct comparison to NMI accredited current

II. Ionizing Radiation and Radioactivity

Parameter/Equipment	Range	CMC ^{2, 3, 5} (±)	Comments
Non-Invasive Voltage (DC) – Measure	(18 to 40) kV (40 to 155) kV	0.45 % 0.53 %	Direct comparison to NMI accredited kV meter
Air Kerma – Measure	(18 to 40) kV (40 to 155) kV	1.7 % 1.3 %	Direct comparison to NMI accredited air kerma

Parameter/Equipment	Range	CMC ^{2, 3, 5} (\pm)	Comments
Air Kerma Rate – Measure	(18 to 155) kV	R/F: 2.6 %	Direct comparison to NMI accredited kV meter

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.

⁴ The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMCs are expressed as either a specific value that covers the full range or as a percent or fraction of the reading plus a fixed floor specification.

⁵ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.