



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NSI-MI TECHNOLOGIES
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CALIBRATION

Valid To: November 30, 2023

Certificate Number: 3869.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,3}:

I. Electrical – RF/Microwave

Parameter/Range	Frequency	CMC ² (±)	Comments
Antenna Gain	(1.7 to 18) GHz (18 to 40) GHz (40 to 60) GHz	0.54 dB 0.62 dB 0.36 dB	Compact antenna range; Standard gain horn substitution (Method based on ANSI C63.5) Three Antenna Method IEEE STD 149
	(0.5 to 1.0) GHz (1.0 to 2.0) GHz (2.0 to 40.0) GHz (40.0 to 60.0) GHz	0.41 dB 0.31 dB 0.25 dB 0.21 dB	
Antenna Pattern – To -30 dB Sidelobe	(1.7 to 40) GHz	0.88 dB	Compact antenna range; IEEE STD 149
Cross Polarization	(1.7 to 40) GHz	2.2 dB	Compact antenna range; IEEE STD 149

Parameter/Range	Frequency	CMC ² (±)	Comments
Antenna Pattern – To -30 dB Sidelobe	(1.7 to 60) GHz	1.1 dB	Spherical Near-Field Scan Method; IEEE STD 1720
Radome Transmission Efficiency	(1.7 to 40) GHz	0.03 dB	Compact antenna range; IEEE STD 149

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the typical uncertainty of measurement that the laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of typical horn antennas. 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 This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

NSI-MI TECHNOLOGIES

Suwanee, GA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 4th day of April 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3869.01
Valid to November 30, 2023

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.