SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
& ANSI/NCSL Z540-1-1994

AMPLIFIER RESEARCH CORPORATION
D.B.A. AR RF/MICROWAVE INSTRUMENTATION
160 Schoolhouse Rd
Souderton, PA 18964
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CALIBRATION

Valid To: March 31, 2023 Certificate Number: 4206.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Electrical – RF/Microwave

Parameter/Range	Frequency	CMC[2] (±)	Comments
RF Laser Isotropic E-Field Probe –			IEEE 1309 substitution method, CL-03-WI-1, CL-03-WI-2
Anechoic Chamber –	>800 MHz to 18 GHz		
Frequency Response	(-10 to 13) dB	1.9 dB	FA7006, FA7218, FL7006, FL7218, FL8009, FL8018, transfer standards: FL7006, FL7040
Isotropic Relative Deviation	(0 to 10) dB	1.7 dB	
GTEM –	(>200 to 800) MHz		
Frequency Response	(-8 to 3) dB	1.1 dB	FA7006, FA7218, FL7006, FL7218, FL8009, FL8018, transfer standards: FL7006, FL7040
Isotropic Relative Deviation	(0 to 4) dB	1.5 dB	
TEM Cell –			
Frequency Response Linearity	5 kHz to 200 MHz (-6 to 10) dB (5 to 300) V/m	1.1 dB	FA7006, FA7218, FL7006, FL7218, FL7030, FL8200, FL8009, FL8018, transfer standards: FL7006, FL7030, FL7040
Isotropic Relative Deviation	(-1 to 2) dB (0 to 6) dB	1.3 dB 0.56 dB	

[1] This laboratory conditionally 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.

Accredited Laboratory

A2LA has accredited

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Souderton, PA

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 the requirements of ANSI/NCSL Z540-1-1994 and 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 18th day of June 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4206.01
Valid to March 31, 2023

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