SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: November 30, 2025 Certificate Number: 7080.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests:

Test Technology:	**Test Method(s):**
Emissions	
Radiated and Conducted	CFR 47, FCC Part 15B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986)[1]; CFR 47, FCC Parts 15C (using ANSI C63.10:2013); CFR 47, FCC Part 15E (using ANSI C63.10:2013 & FCC KDB 905462 D02 (v02)); CFR 47, FCC Parts 15F (using ANSI C63.10:2013); UNII – MP; CISPR 11 [1]; EN55011 [1]; KS C9811 [1]; IEC 61000-6-4 [1]; EN 61000-6-4 [1]; KS C9610-6-4[1]
United States Radio	CFR 47, FCC Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101 (using ANSI C63.26:2015)
Canada Radio	ICES-Gen; ICES-003; RSS-GEN; RSS-210; RSS-215; RSS-220; RSS-247; RSS-248; RSS-251
European Radio	ETSI EN 301 091-1; ETSI EN 301 091-2: ETSI EN 301 091-3; ETSI EN 301 783 ETSI EN 301 893; ETSI EN 302 065-1; ETSI EN 302 065-2; ETSI EN 302 065-3; ETSI EN 302 065-4; ETSI EN 302 264; ETSI EN 305 550-1; ETSI EN 305 550-2; ETSI EN 300 328; ETSI EN 300 330

Test Technology:	**Test Method(s):**
European Radio *(continued)*	ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 303 413
Australia/New Zealand Radio	AS/NZS 4268
Emissions for ports	CISPR 32; EN 55032
Harmonic current emissions	IEC 61000 3-2; EN 61000 3-2
Voltage fluctuations and flicker	IEC 61000 3-3; EN 61000 3-3; IEC 61000 3-11; EN 61000 3-11
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2 [1]; EN 61000-4-2 [1]; KS C 9610-4-2 [1]
RF Radiated Electromagnetic Field Immunity	IEC 61000-4-3 [1]; EN 61000-4-3 [1]; KS C 9610-4-3[1]
Electrical Fast/Transient Burst (EFT)	IEC 61000-4-4 [1]; EN 61000-4-4 [1]; KS C 9610-4-4 [1]
Surge	IEC 61000-4-5 [1]; EN 61000-4-5 [1]; KS C 9610-4-5 [1]
Conducted Immunity	IEC 61000-4-6 [1]; EN 61000-4-6 [1]; KS C 9610-4-6 [1]
Transients and Surges in the Vehicular Environment	ISO 7637-2
Magnetic Field Immunity	IEC 61000-4-8 [1]; EN 61000-4-8 [1]; KS C 9610-4-8 [1]
Voltage Dips, Short Interruptions and Voltage Variations	IEC 61000-4-11 [1]; EN 61000-4-11 [1]; KS C 9610-4-11[1]; KS C IEC 61000-4-34 [1]; IEC 61000-4-34 [1]; EN 61000-4-34 [1]

Test Technology:	**Test Method(s):**
Specification for Semiconductor Processing Equipment Voltage Sag Immunity	SEMI F47[1]
Common Technical Standards for Machines and Mechanisms	S2-W-5 [1]
Guide to Documentation for Semiconductor Equipment Installation	SEMI E6 [1]
Generic standards – Immunity for Industrial Environments	IEC 61000-6-2 [1]; EN 61000-6-2 [1]; KSC9610-6-2 [1]
Product Family Standards [1]	EN50370-1[1]; EN50370-2[1]; EN 301 489-1; EN 301 489-3; EN 301 489-7; EN 301 489-9; EN 301 489-15; EN 301 489-17; EN 301 489-19; EN 301 489-24; EN 301 489-51; EN 301 489-52
Information technology, Communication Information Technology and Office Equipment, Wi-Fi Devices E019 Interoperability Test	Wi-Fi CERTIFIED n Test Plan; Wi-Fi CERTIFIED Wi-Fi Protected Setup Test Plan; WMM Power Save System Interoperability Test Plan; Wi-Fi CERTIFIED Protected Management Frames Test Plan; Wi-Fi CERTIFIED Miracast Test Plan; Wi-Fi CERTIFIED Wi-Fi Direct Test Plan; Wi-Fi CERTIFIED ac Test Plan

On the following products or types of products:
Industrial Equipment, Scientific Equipment, Medical Equipment and Semiconductor manufacturing equipment (SEMI).

[1] The lab has been assessed to the test methods listed above for field testing / in-situ test.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1:		
Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	236000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5 (February 1986)	236000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1:		
Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Intentional Radiators		
Part 15C	ANSI C63.10:2013	236000
U-NII without DFS Intentional Radiators		
Part 15E	ANSI C63.10:2013	236000
U-NII with DFS Intentional Radiators		
Part 15E	FCC KDB 905462 D02 (v02)	236000
UWB Intentional Radiators		
Part 15F	ANSI C63.10:2013	236000
Microwave and Millimeter Bands Radio Services		
Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI C63.26:2015	236000
Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.		

Accredited Laboratory

A2LA has accredited

SGS JAPAN INC.

Yokohama, Japan

for technical competence in the field of

Electrical Testing

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 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 2nd day of January 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7080.01
Valid to November 30, 2025

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