SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid to: November 30, 2027 Certificate Number: 3857.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on Radio Equipment and Telecommunications Terminal Equipment (R&TTE), Information Technology Equipment (ITE), Industrial, scientific and medical (ISM) radio-frequency equipment, Household appliances, electric tools and similar apparatus, Audio and Video Equipment, Lighting equipment:

Test Technology:	**Test Method(s)[1,2]:**
Unintentional Radiators	
Radiated & Conducted (up to 40 GHz)	CFR 47, FCC Part 15 Subpart B, (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); CISPR 22:2008; EN 55022:2010; CISPR 32; EN 55032; AS/NZS CISPR 32; BS EN 55032; ICES-001; ICES-003; ICES-005; GB/T 9254.1; VCCI-CISPR 32
Harmonic Current Emissions	GB 17625.1; IEC 61000-3-2; EN 61000-3-2; BS EN IEC 61000-3-2; EN IEC 61000-3-2
Voltage Fluctuations and Flicker	GB 17625.2; IEC 61000-3-3; EN 61000-3-3; BS EN 61000-3-3
Immunity	
Electrostatic Discharge (ESD)	GB/T 17626.2; IEC 61000-4-2; EN 61000-4-2; EN IEC 61000-4-2; BS EN 61000-4-2; BS EN IEC 61000-4-2
Radiated Immunity	GB/T 17626.3; IEC 61000-4-3; EN 61000-4-3; BS EN IEC 61000-4-3; EN IEC 61000-4-3
Electrical Fast Transient/Burst (EFT)	GB/T 17626.4; IEC 61000-4-4; EN 61000-4-4; BS EN 61000-4-4
Surge	GB/T 17626.5; IEC 61000-4-5; EN 61000-4-5; BS EN 61000-4-5

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Test Technology:	**Test Method(s)[1,2]:**
Conducted Immunity	GB/T 17626.6; IEC 61000-4-6; EN 61000-4-6; BS EN 61000-4-6; EN IEC 61000-4-6; BS EN IEC 61000-4-6
Power Frequency Magnetic Field	GB/T 17626.8; IEC 61000-4-8; EN 61000-4-8; BS EN 61000-4-8
Voltage Dips, Short Interruptions, and Voltage Variations	GB/T 17626.11; IEC 61000-4-11; EN 61000-4-11; BS EN IEC 61000-4-11; EN IEC 61000-4-11
Generic / Product Family / Product Specific EMC Standards (excluding magnetic field proximity method)	GB/T 17799.1; IEC 61000-6-1; EN 61000-6-1; BS EN 61000-6-1; BS EN IEC 61000-6-1; EN IEC 61000-6-1 ; GB/T 17799.2; IEC 61000-6-2; EN 61000-6-2; BS EN 61000-6-2; BS EN IEC 61000-6-2; EN IEC 61000-6-2; GB/T 17799.3; IEC 61000-6-3; EN 61000-6-3; EN IEC 61000-6-3; BS EN IEC 61000-6-3; GB/T 17799.4; IEC 61000-6-4; EN 61000-6-4; EN IEC 61000-6-4; BS EN IEC 61000-6-4; ETSI EN 301 489-1; ETSI EN 301 489-3; ETSI EN 301 489-5; ETSI EN 301 489-6; ETSI EN 301 489-9; ETSI EN 301 489-17; ETSI EN 301 489-19; ETSI EN 301 489-27; ETSI EN 301 489-28; ETSI EN 301 489-29; ETSI EN 301 489-31; ETSI EN 301 489-33; ETSI EN 301 489-34; ETSI EN 301 489-35; ETSI EN 301 489-50; ETSI EN 301 489-52; ETSI EN 301 489-53; CISPR 24:2010+AMD1:2015; EN 55024:2010+A1:2015; CISPR 35; EN 55035; BS EN 55035; GB/T 9254.2; EN 61547; BS EN IEC 61547; EN IEC 61547; BS EN 61547; IEC 61547; AS/NZS 61000.6.1; AS/NZS 61000.6.3; GB/T 17618; GB/T 19484.1; GB/T 22450.1; YD/T 968; YD 1312.1; YD 1312.2; YD 1312.3; YD 1312.8; YD/T 1592.1; YD/T 1595.1; YD/T 1597.1; YD/T 2583.1; YD/T 2583.2; YD/T 2583.3; YD/T 2583.4; YD/T 2583.6; YD/T 2583.13; YD/T 2583.14; YD/T 2583.17; YD/T 2583.18; ETSI EN 303 446-1; ETSI EN 303 446-2; ETSI EN 203 367; EN 60601-1-2; IEC 60601-1-2; BS EN 60601-1-2; YY 9706.102; EN 300386; EN 55014-1; BS EN 55014-1;

Test Technology:	**Test Method(s)[1,2]:**
Generic / Product Family / Product Specific EMC Standards (excluding magnetic field close proximity method) (Cont.)	BS EN IEC 55014-1; EN IEC 55014-1; EN 55014-2; EN IEC 55014-2; BS EN 55014-2; BS EN IEC 55014-2; AS/NZS CISPR 14.1; AS/NZS CISPR 14.2; EN 55015; EN IEC 55015; BS EN IEC 55015; AS CISPR 15; AS/NZS CISPR 15; EN 55011; EN IEC 55011; CISPR 11; GB 4824; BS EN 55011; BS EN IEC 55011; EN 61326-1; BS EN 61326-1; BS EN IEC 61326-1; IEC 61326-1; EN IEC 61326-1; EN 61326-2-1; IEC 61326-2-1; BS EN 61326-2-1; EN IEC 61326-2-1; BS EN IEC 61326-2-1; EN 61326-2-2; IEC 61326-2-2; EN IEC 61326-2-2; BS EN 61326-2-2;BS EN IEC 61326-2-2; EN 61326-2-6; IEC 61326-2-6; BS EN 61326-2-6; BS EN IEC 61326-2-6; EN IEC 61326-2-6; BS EN IEC 62040-2; EN 62040-2; IEC 62040-2; EN IEC 62040-2; GB/T 21437.2; ISO 7637-2; ITU-T K.20; ITU-T K.21; ITU-T K.44; IEC 61851-21-2; EN IEC 61851-21-2; BS EN IEC 61851-21-2; GB/T 18487.2
Intentional Radiators (up to 40 GHz)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Unlicensed Radio - FCC	CFR 47, FCC Part 15, Subpart C (using ANSI C63.10:2020); CFR 47, FCC Part 15, Subpart F (using ANSI C63.10:2020); ANSI C63.10:2020; CFR 47, FCC Part 15, Subpart D (using ANSI C63.17:2013)
U-NII (*with DFS*)	CFR 47, FCC Part 15, Subpart E (using ANSI C63.10:2020, FCC KDB Publication 905462)
Licensed Radio – FCC	CFR 47, FCC Parts 20, 22, 24, 25, 27, 30, 74, 90, 95, 96, 97, 101 (using ANSI/TIA-603-E, KDB Publication 971168, and ANSI C63.26:2015)
Wireless Coexistence	ANSI C63.27-2017; AAMI TIR69:2017; ANSI/USEMCSC C63.27-2021
Canada - Radio	RSS-Gen; RSS-119; RSS-130; RSS-132; RSS-133; RSS-139; RSS-140; RSS-192; RSS-195; RSS-196; RSS-197; RSS-198; RSS-199; RSS-210 (< 40 GHz); RSS-216 (< 40 GHz); RSS-220 (< 40 GHz); RSS-247; RSS-248

Test Technology:	**Test Method(s)[1,2]:**
European Union (EU)	ETSI EN 300 113; ETSI EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 328; ETSI EN 300 330; ETSI EN 300 440; ETSI EN 301 406-1; ETSI EN 301 511; ETSI EN 301 893; ETSI EN 301 908-1; ETSI EN 301 908-2; ETSI EN 301 908-10; ETSI EN 301 908-13; ETSI EN 301 908-25; ETSI EN 302 065-1; ETSI EN 302 065-2; ETSI EN 302 208; ETSI EN 302 208-1; ETSI EN 302 208-2; ETSI EN 302 291-1; ETSI EN 302 291-2; ETSI EN 302 502; ETSI EN 303 345-1; ETSI EN 303 413; ETSI EN 303 417; ETSI EN 303 687; ETSI EN 303 883; ETSI EN 303 883-1; ETSI EN 303 883-2; ETSI TS 102 754; ETSI TS 102 933-2; ETSI TS 102 936-1; ETSI TS 102 936-2; ETSI TS 103 246-3; ETSI TS 103 246-5; ETSI TS 103 361; ETSI TS 103 412; ETSI TS 103 428; ETSI TS 103 543; ETSI TS 103 625; ETSI TS 103 701; ETSI TS 103 732; ETSI TR 103 181-2; REGULATION (EU) 2017/78; REGULATION (EU) 2017/79; REGULATION (EU) 2017/758; REGULATION (EU) 2019/320; UN-R144; ISO/IEC 18305
Australia	AS/CA S042.1; AS/ACIF S042.3; AS/CA S042.4; AS/NZS 4268; AS/CA S042.5
Japan	Article 2-11-30; Article 2 Paragraph 1 Item 19; Article 2 Paragraph 1 Item 19-2; Article 2 Paragraph 1 Item 19-3; Article 2 Paragraph 1 Item 19-3-2; Article 2 Paragraph 1 Item 19-3-3; Article 2 Paragraph 1 Item 8; Article 2 Paragraph 1 Item 11-3; Article 2 Paragraph 1 Item 11-7; Article 2 Paragraph 1 Item 11-19; Article 2 Paragraph 1 Item 11-21; Article 2 Paragraph 1 Item 54; Article 2 Paragraph 1 Item 11-30; Article 49-20; Article 3; Article 6; Article 9; Article 17; Article 18; Article 19; Article 20; Article 21; Article 22; Article 23; Article 24; Article 25; Article 26; Article 27; Article 28; Article 28-2; Article 29; Article 34-8-1; Article 34-8-2; Article 34-8-3; Article 34-8-4; Article 34-8-5; Article 34-8-6; Article 34-8-7;

Test Technology:	Test Method(s)[1,2]:
Japan (Cont.)	Article 34-8-8; Article 34-8-9; Article 34-8-10; Article 34-8-11; Article 34-8-12; Article 2 Paragraph 1 Item 79; Article 2 Paragraph 1 Item 80; Article 2 Paragraph 1 of Item 19-2-2; Article 2 Paragraph 1 of Item 21-3; Article 2 Paragraph 1 of Item 11-34; Article 2 Paragraph 1 of Item 54-6; Article 2 Paragraph 1 of Item 11-19-2; Article 2 Paragraph 1 of Item 11-19-3; Article 2 Paragraph 1 of Item 47; Article 2 Paragraph 1 of Item 47-3; Article 2 Paragraph 1 of Item 47-4; Article 2 Paragraph 1 of Item 72; Article 2 Paragraph 1 of Item 78; Article 49-6-4; Article 49-8-2-3; Article 49-6-9; Article 49-6-10; Article 49-6-13; Article 49-29; Article 49-29-2; Article 49-6-12; Ordinance Concerning Terminal Facilities etc. (Ministerial Ordinance of the Ministry of Posts and Telecommunications No.31), Article 3 to 9
RF Performance Measurements	
Over-the-Air Performance (OTA)	3GPP TS 34.114; 3GPP TR 25.914; 3GPP TR 37.902; 3GPP TS 25.144; 3GPP TS 37.544; 3GPP TR 37.977; CTIA and Wi-Fi Alliance Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices[3,4]; ANSI/IEEE Std 149; CTIA-01.20; CTIA-01.50; CTIA-01.70; CTIA-01.71; CTIA-01.72; CTIA-01.73; CTIA-01.90
RF Exposure, SAR and HAC	
U.S. (FCC)	
Specific Absorption Rate (SAR)	IEEE 1528; IEEE 1528a; ANSI C95.1; IEEE C95.1; IEEE C95.1a
Canada (ISED)	
RF Exposure & Specific Absorption Rate (SAR)	RSS-102; RSS-102.SAR.MEAS; IEEE C95.1; IEEE C95.1a; IEEE C95.3
International	
RF Exposure & Specific Absorption Rate (SAR)	IEEE C95.1; IEEE C95.1a; ANSI C95.1; IEEE C95.3; ANSI C95.3; IEEE 1528:2013; IEEE 1528a; ICNIRP Guidelines; EN 50360; EN 50566; EN 50364; EN 50385; IEC 62209-1; EN 62209-1; IS/IEC 62209-1; EN 62209-2; IEC 62209-2; IEC 62232; EN 62232; EN IEC 62232;

Test Technology:	**Test Method(s)[1,2]:**
RF Exposure & Specific Absorption Rate (SAR) (Cont.)	IEC 62311; EN 62311; EN 50664; EN 50665; IEC 62369; EN 62369; IEC 62479; EN 62479; EN 50663; AS/NZS 2772.2; BS EN 50360; BS EN 50364; BS EN 50566; BS EN 62209-1; BS EN 62209-2; BS EN IEC 62311; BS EN 62369-1; BS EN 62232; BS EN 50663; BS EN 62479; BS EN 50385; BS EN 50664; BS EN 50665; BS IEC/IEEE 62209-1528; IEC/IEEE 62209-1528; EN IEC/IEEE 62209-1528; BS EN IEC/IEEE 62209-1528; EN IEC 62311; BS EN 62233; EN 62233; IEC 62233; BS IEC 62233; ARIB STD-T56; ARPANSA Standard RPS S-1; IEC 62493; EN 62493; BS EN 62493
DIRECTIVE (EU) 2019/882	EN 301 549
Common Charger	IEC 62680-1-2; BS EN IEC 62680-1-2; EN IEC 62680-1-2; SASO IEC 62680-1-2; IS/IEC 62680-1-2; BS EN IEC 62680-1-3; EN IEC 62680-1-3; IEC 62680-1-3; SASO IEC 62680-1-3; IS/IEC 62680-1-3
Radio Communications (Wireless) (Limited to testing of Transceiver, Transmitter and Receiver, as applicable)	
WCDMA/GSM	ETSI TS 134 121-1; 3GPP TS 34.121-1; ETSI TS 151 010-2; 3GPP TS 51.010-2; ETSI TS 151 010-1; 3GPP TS 51.010-1
LTE	ETSI TS 136 101; 3GPP TS 36.101; ETSI TS 136 508; 3GPP TS 36.508; ETSI TS 136 521-1; 3GPP TS 36.521-1; ETSI TS 136 521-3; 3GPP TS 36.521-3
5G NR	3GPP TS 38.101-1; 3GPP TS 38.101-3; 3GPP TS 38.508-1; 3GPP TS 38.508-2; 3GPP TS 38.521-1; 3GPP TS 38.521-3; ETSI TS 138 521-1; ETSI TS 138 521-3; ETSI TS 138 101-1; ETSI TS 138 101-3; ETSI TS 138 508-1; ETSI TS 138 508-2
Bluetooth SIG	RF: 1; RF – PHY:1; RF – PHY:2; Host Layers; Traditional Profiles and Protocols; GATT-Based Profile & Service; Mesh Profile & Mesh Models
WInnForum/OnGo Alliance (Only CBSD RF Power Measurement)	WINNF-TS-0122 WInnForum CBRS CBSD Test Specification; CBRSA-TS-9001 CBRS Alliance OnGo Certification Test Plans

Test Technology:	**Test Method(s)[1,2]:**
FIRA CONSORTIUM (Only UWB RF Power Measurement)	FIRA CONSORTIUM UWB MAC TECHNICAL REQUIREMENTS; FiRa USB VCOM Technical Requirements
Matter CSA	Matter Test Plans All Clusters; Matter Test Plans Core
Electrical Product Safety	GB 4943.1; YD/T 965; EN 60950-1; IEC 60950-1; AS/NZS 60950.1; IEC 60065; EN 60065; AS/NZS 60065; IEC 62368-1; EN 62368-1; UL 62368-1; AS/NZS 62368.1; EN IEC 62368-1; BS EN 62368-1; BS EN IEC 62368-1; EN 62368-3; IEC 62368-3; BS EN IEC 62368-3; EN IEC 62368-3; IEC 61010-1; EN 61010-1; BS EN61010-1; EN 50332-1; IEC 50332-1; BS EN 50332-1; EN 50332-2; IEC 50332-2; BS EN50332-2; IEC 60601-1; EN 60601-1; BS EN 60601-1; AS/NZS IEC 60601.1; GB 9706.1

INFORMATION TECHNOLOGY

Test Technology:	**Test Method(s)[1,2]:**
Cybersecurity Common security requirements for radio equipment - Part 1: Internet connected radio equipment	EN 18031-1; BS EN 18031-1
Common security requirements for radio equipment - Part 2: radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment	EN 18031-2; BS EN 18031-2
Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value	EN 18031-3; BS EN 18031-3
Cyber Security for Consumer Internet of Things: Conformance Assessment of Baseline Requirements	ETSI TS 103 701

[1]When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard test method, per Annex A, Part C of A2LA's *R101 - General Requirements: Accreditation of Conformity Assessment Bodies.*

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	40000
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	40000
Intentional Radiators Part 15C	ANSI C63.10:2020	40000
UPCS FCC Part 15D	ANSI C63.17:2013	40000
U-NII without DFS Intentional Radiators Part 15E	ANSI C63.10:2020	40000
U-NII with DFS Intentional Radiators Part 15E	FCC KDB Publication 905462 D02 (v02)	40000
UWB Intentional Radiators Part 15F	ANSI C63.10:2020	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; ANSI C63.26:2015	40000
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; ANSI C63.26:2015	40000
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96	ANSI/TIA-603-E; ANSI C63.26:2015	40000
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/TIA-603-E; ANSI C63.26:2015	40000

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)**
RF Exposure		
Devices Subject to SAR Requirements	IEEE Std 1528:2013	7200

Note: 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.

[2]The laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

[3]Accreditation to the requirements of the CTIA Certification Test Plan does not imply authorization by the CTIA Certification program. Please see the CTIA website https://ctiacertification.org/test-labs/ for a listing of Authorized Test Labs (ATLs).

[4]CTIA 01.01 Test Scope Requirements and Applicability is used in support of the CTIA Test Plan for Wireless Device Over-the-Air Performance and should not be considered its own test method.

Accredited Laboratory

A2LA has accredited

EUROFINS TA TECHNOLOGY (SHANGHAI) CO., LTD.

Shanghai, People's Republic of China

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 13th day of November 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3857.01
Valid to November 30, 2027

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