



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

KSIGN (GUANGDONG) TESTING CO., LTD.
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ELECTRICAL

Valid To: October 31, 2021

Certificate Number: 5457.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on unintentional and intentional radiators:

Test(s):

Test Method(s)¹:

Emissions

Radiated and Conducted
(up to 40 GHz)

CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014);
CRF 47, FCC Part 18 (using FCC OST/MP5:1986);
ICES-Gen; ICES-001; ICES-003; ICES-005;
CISPR 22; EN 55022; AS/NZS CISPR 22;
CISPR 32; EN 55032; AS/NZS CISPR 32;
CISPR 11; EN 55011; AS/NZS CISPR 11;
CISPR 13; EN 55013; AS/NZS CISPR 13;
CISPR 14-1; EN 55014-1; AS/NZS CISPR 14-1;
CISPR 15; EN 55015; AS/NZS CISPR 15;
VCCI V-3; VCCI V-32-1;
GB 9254; GB 4343.1; GB 17743; GB 13837; GB 4824

Harmonic Current Emissions and
Flicker

IEC 61000-3-2; EN 61000-3-2; GB/T 17625.1;
AS/NZS 61000.3.2; IEC 61000-3-3; EN 61000-3-3;
GB/T 17625.2; AS/NZS 61000.3.3

Immunity

Electrostatic Discharge (ESD)

IEC 61000-4-2; EN 61000-4-2; BS EN 61000-4-2;
AS/NZS 61000.4.2; GB/T 17626.2

Radiated Immunity
(up to 6 GHz, 10 V/m)

IEC 61000-4-3; EN 61000-4-3; BS EN 61000-4-3;
AS/NZS 61000.4.3; GB/T 17626.3

Electrical Fast Transient (EFT)

IEC 61000-4-4; EN 61000-4-4; BS EN 61000-4-4;
AS/NZS 61000.4.4; GB/T 17626.4

Test(s):

Immunity (cont'd)

Surge Immunity

Test Method(s)¹:

IEC 61000-4-5; EN 61000-4-5; BS EN 61000-4-5;
AS/NZS 61000.4.5; GB/T 17626.5; YD/T 993

Conducted Immunity

IEC 61000-4-6; EN 61000-4-6; BS EN 61000-4-6;
AS/NZS 61000.4.6; GB/T 17626.6

Magnetic Fields Immunity

IEC 61000-4-8; EN 61000-4-8; BS EN 61000-4-8;
AS/NZS 61000.4-8; GB/T 17626.6

Voltage Dip & Interrupt

IEC 61000-4-11; EN 61000-4-11; BS EN 61000-4-11;
AS/NZS 61000.4.11; GB/T 17626.11

***Generic and Product Specific
Standards***

IEC 61000-6-1; EN 61000-6-1; IEC 61000-6-2; EN 61000-6-2;
IEC 61000-6-3; EN 61000-6-3; IEC 61000-6-4; EN 61000-6-4;
AS/NZS 61000.6.1; AS/NZS 61000.6.2;
AS/NZS 61000.6.3; AS/NZS 61000.6.4;
IEC 60601-1-2; EN 60601-1-2; YY0505;
EN 55024; CISPR 24; AS/NZS CISPR 24;
EN 55035; CISPR 35; AS/NZS CISPR 35;
IEC 61326-1; EN 61326-1; IEC 61326-2-6; EN 61326-2-6;
EN 50130-4; GB 7260.2; IEC/EN 62040-2;
EN 50121-4; EN 50121-3-2; GB/T 19287;
YD/T968; YD/T983; EN 62493;
EN 300 386; EN 55014-2; EN 61547; BETS-7;
ETSI EN 301 489-1; ETSI EN 301 489-3;
ETSI EN 301 489-4; ETSI EN 301 489-6;
ETSI EN 301 489-9; ETSI EN 301 489-17;
ETSI EN 301 489-19; ETSI EN301 489-27;
ETSI EN 301 489-29; ETSI EN301 489-31;
ETSI EN 301 489-34; ETSI EN301 489-35;
ETSI EN 301 489-50;
ETSI EN 301 489-53

Japan

Ordinance of MPT No.37,
Article 2 Paragraph 1 Item 19;
Item 19-2; Item 19-3; Item 19-3-2;
Article 2 Paragraph 1 of Item 11-3;
Article 2 Paragraph 1 of Item 11-4;
Article 2 Paragraph 1 of Item 11-7;
Article 2 Paragraph 1 of Item 11-8;
Article 2 Paragraph 1 of Item 11-19;
Article 2 Paragraph 1 of Item 11-21;
Article 2 Paragraph 1 of Item 54



Test(s):

Radio (*excluding SAR*)
Unlicensed Radio - FCC

Test Method(s)¹:

CFR 47, FCC Part 2;
CFR 47, FCC Part 15,
Subparts 15C, 15E, and 15F (using ANSI C63.10:2013);
U-NII with DFS Intentional Radiators - FCC Part 15, Subpart E;
FCC KDB 905462 D02 UNII DFS Compliance Procedures
New Rules;
Subpart 15D (using ANSI C63.17:2013);
CFR 47, FCC Parts 2, 22, 24, 25, 27
(using ANSI C63.26-2015, ANSI/TIA-603-E (2016))

Radio (*excluding SAR cont.*)
Radio – ISED

RSS-Gen; RSS-130; RSS-132; RSS-133; RSS-139;
RSS-195; RSS-199; RSS-210;
RSS-215; RSS-216; RSS-247 (with and without DFS);
RSS-310

European Union (EU)

ETSI EN 300 220-1; ETSI EN 300 220-2;
ETSI EN 300 220-3-1; ETSI EN 300 220-3-2;
ETSI EN 300 220-4; ETSI EN 300 330;
ETSI EN 300 440; ETSI EN 303 372-1;
ETSI EN 303 372-2; ETSI EN 303 340;
ETSI EN 303 345; ETSI EN 303 413;
ETSI EN 303 417; ETSI EN 300 422-1;
ETSI EN 300 422-2; ETSI EN 300 422-3;
ETSI EN 300 422-4; ETSI EN 302 291-1;
ETSI EN 302 208; ETSI EN 301 357;
ETSI EN 303 609; ETSI EN303 258;
ETSI EN 302 195; ETSI EN 302 537;
ETSI EN 301 559; ETSI EN 301 502;
ETSI EN 300 328; ETSI EN 301 893;
ETSI EN 302 502; ETSI EN 301 511;
ETSI EN 301 908-1; ETSI EN 301 908-2;
ETSI EN 301 908-3; ETSI EN 301 908-11;
ETSI EN 301 908-13; ETSI EN 301 908-14;
ETSI EN 301 908-15



Test(s):

Australia/New Zealand

Australia

RF Exposure/MPE

Test Method(s)¹:

AS/NZS 4268; AS/NZS 4771

AS/CA S042.1; AS/ACIF S042.3; AS/CA S042.4

EN 62311; EN 62479; EN 50385; EN 50383; EN 50364;
IEC 62493; EN 62493;
IEC 62233; EN 62233;
CFR FCC Part 2.1091;
CFR FCC Part 2.1093;
IEEE Std 1528-2013; RSS-102 (RF Exp.) (NS); SPR-002;
AS/NZS 2772.2; Radiation Protection Series Publication No. 3

Product Safety

Audio/Video and Similar

AS/NZS 60065; EN 60065; IEC 60065; ANSI/UL 60065;
AS/NZS 62368.1; IEC 62368-1; EN 62368-1;
ANSI/UL 62368-1

Information Technology Equipment
(ITE)

ANSI/UL 60950-1; IEC 60950-1; EN 60950-1;
AS/NZS 60950.1; AS/NZS 62368.1; IEC 62368-1; EN 62368-1;
ANSI/UL 62368-1

On the following types of products: Industrial, Scientific, Medical (ISM), Information Technology Equipment (ITE), Network Equipment, Medical Electrical Equipment

¹ When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory 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 part C., Section 1 of A2LA R101 - *General Requirements - Accreditation of ISO-IEC 17025 Laboratories*.



Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1²

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u>		
Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u>		
Part 18	FCC MP-5:1986	40000
<u>Intentional Radiators</u>		
Part 15C	ANSI C63.10:2013	40000
<u>Unlicensed Personal Communication Systems Devices</u>		
Part 15D	ANSI C63.17:2013	40000
<u>U-NII without DFS Intentional Radiators</u>		
Part 15E	ANSI C63.10:2013	40000
<u>U-NII with DFS Intentional Radiators</u>		
Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u>		
Part 15F	ANSI C63.10:2013	40000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u>		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; ANSI C63.26:2015	40000

²Accreditation 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

KSIGN (GUANGDONG) TESTING CO., LTD.

Shenzhen City, Guangdong Province, 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 26th day of November 2019.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5457.01
Valid to October 31, 2021

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