

SCOPE OF ACCREDITATION TO ISO/IEC 17025:20

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ELECTRICAL

Valid To: June 30, 2025

Certificate Number 3310.03

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's FDA ASCA Accreditation Program requirements) accreditation is granted to this laboratory to perform the following EMC, Radio, and Telecommunication tests on IT/Multimedia Equipment, Audio Equipment, Industrial Equipment, Radio Equipment, and Cellular Devices Military/Aerospace, Aircraft Components and Automotive Components

Test Technology: Test Method(s) ^{1,3,4}:

Emissions

Conducted and Radiated
U.S. / Canada

CFR 47, FCC Part 15, Subpart B (Using ANSI C63.4 2014);
47 CFR FCC Part 18 (using FCC MP1986);
ICES-001 (Issue 5, July 2020)
ICES-002 (Issue 7, September 2020);
ICES-003 (Issue 7, October 2020)
ICES-004 (Issue 5, October, 2022)
ICES-005 (Issue 5, December 2018)
ICES-006 (Issue 3, July 2018)

International

IEC/CISPR 11 Ed. 6.0 (2015) +A1(2016);

Test Technology:

Test Method(s)^{1,3,4}

<u>Test Technology:</u>	<u>Test Method(s)</u> ^{1,3, 4:}
Voltage Fluctuations and Flicker	IEC 610003-3; EN 610003-3; KS C 96103-3; SANS 610003-3 Ed. 2 (2009) IEC 610003-12 Ed. 2.0 (2011)EN 610003-12 (2011)
Immunity	
Electrostatic Discharge (ESD)	IEC 610004-2; EN 610004-2; IEC 610004-2 Ed. 2.0 (2008)2); KS C 96104-2; SANS 610004-2 Ed. 2 (2009)
Radiated Immunity	IEC 610043; EN 610004-3; EN 610004-3 (2006) +A1(2008) +A2(2010); KS C 96104-3; SANS 610004-3 Ed. 3.1 (2008)
Electrical Fast Transient/Burst (EFT)	IEC 610004-4; EN 610004-4; IEC 61000KTBT /P <</MCID 44 >>BDC 11.04 -0 0 11.04 g829.08 Tm ()Tj ET

Test Technology:

Test Method(s) ^{1,3,4:}

Generic / Product Family /
Product Specific Standards
(cont.)

EN 60601-1-2:2015 +A1:2021
IEC 606012-2 (2018), Annex BB;
IEC 606012-4 Ed. 3.0 (2010), clause 202
EN 606012-24:19;
IEC 606012-25 Ed. 2.0, (2011), clause 202
IEC 606012-26 (2003); EN 60601-26 (2003);
IEC 606012-26, Ed. 2.0 (2002-1);
IEC 606012-26 Ed. 3.0 (2010-5);
IEC 606012-27 Ed. 3.0 (2011), clause 202;
IEC 606012-27:2005; EN 60601-27:2006; EN 4502-2 (2008);
EN 455022-1 (2003); IEC 606012-30, clause 202;
IEC 606012-31 (2008)+A1 (2011), clause 202;
EN 606012-37 (2008) +A1 (2015), clause 202;
IEC 606012-47 Ed. 2.0 (2010-2), clause 202;
IEC 606012-49 (2011), clause 202;
EN 606012-49 (2015), clause 202;
EN/IEC 61006-4:2018 EN 61006-3; EN IEC 61006-3;
IEC 806012-49 (2018), clause 202;
IEC 606012-50, Ed. 2.1 (2016-04);
ISO 806012-55 (2018), clause 202;
ISO 806012-56(206.286 (C -26.759-806012-56 IEC 80601-2-56 (N), clause 202;
ISO 809919d. 2.0 (S), cae 8030.8 (c)6-4.6 ()]

Test Technology:

Test Method(s)^{1,3,4:}

Automotive EMC (cont.)

Test Technology:

Test Method(s)^{1,3,4:}

Europe
(excluding Protocol Testing)
(cont.)

ETSI EN 301 4894 V2.1.1 (201904); (BDC H-)Tj 7K-
ETSI EN 301 4895 V.2.1 (201612);
ETSI EN 301 4895 V2.1.1 (201702);
ETSI EN 301 4895 V1.2.1 (201303);
ETSI EN 301 4895 V2.3.1 (202103); 0 Td ((0 Td ((0 Td ((0 Td ((0 Td ((0 Td (

Test Technology:

Test Technology:

Test Method(s)^{1,3, 4:}

Singapore(cont.)

IS 20190 (September 1998);
IMDA TS CMT Issue 1 Rev 2 (September 2020)

Vietnam

QCVN 11 (2010); BTTTT; QCVN 12 (2015); BTTTT;
QCVN 13 (2010)

² These methods have been assessed by A2LA according to A2LA's FDA ASCA Program requirements. Accreditation by A2LA does not imply FDA ASG Accreditation. All ASCA-accreditation decisions for testing laboratory applications are made solely by the FDA. A list of approved laboratories can be found at FDA.gov.

³ 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.

⁴ ANSI C63.4a:2017 is used to perform NSA in support of ANSI C63.4:2014 and should not be considered its own test method.

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(s)	Maximum Frequency
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	220000 MHz
<u>Industrial, Scientific, and Medical Equipment</u> Part 18	FCC CFR 47 Part 18	2000 MHz
<u>Intentional Radiators</u> Part 15C	FCC CFR 47 Part 15C	2000 MHz

FCC ETS 188 re W r 2013 404 -052

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(s)	Maximum Frequency
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Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁵

Rule Subpart/Technology	Test Method(s)	Maximum Frequency
<u>Signal Boosters</u> Part20 (Wideband Consumer Signal Booster Providerspecific Signal Boosters, and Industrial Signal Boosters), Section 90.219	ANSI C63.26:2015	220000 MHz

⁵Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.

For the tests to which this accreditation applies, please refer to the laboratory's Electrical

Scope of Accreditation.