



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: January 31, 2021

Certificate Number: 5123.02

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

**Test Technology:**

**Test Method(s)<sup>1</sup>:**

<b>Emissions</b>	
<b><i>Radiated and Conducted</i></b>	FCC Part 15, Subpart B (Using ANSI C63.4:2014)
	FCC Part 18, CFR 47, FCC MP-5 (February 1986)
	ICES-001
	ICES-003
	EN 55011; CISPR 11; AS/NZS CISPR 11
	EN 55013; CISPR 13; AS/NZS CISPR 13
	EN 55014-1; CISPR 14-1; AS/NZS CISPR 14.1
	EN 55015; CISPR 15; AS/NZS CISPR 15
	EN 55022; CISPR 22; AS/NZS CISPR 22
	VCCI V-3 Technical Requirements
	VCCI-CISPR 32
	EN 55032; CISPR 32; AS/NZS CISPR 32; KN 32
	CNS 13803
	CNS 13439
	CNS 13783-1
	CNS 13438
	IEC 60601-1-2; EN 60601-1-2
	EN 50561-1; EN 50561-3
	IEC 61000-3-2; EN 61000-3-2; AS/NZS 61000.3.2
	IEC 61000-3-3; EN 61000-3-3; AS/NZS 61000.3.3
	IEC 61000-6-3; EN 61000-6-3
	IEC 61000-6-4; EN 61000-6-4
	EN 60730-1(EMC Emissions and Immunity only)
	EN 60730-2-7(EMC Emissions and Immunity only)
	EN 60730-2-9(EMC Emissions and Immunity only)
	EN 60730-2-11(EMC Emissions and Immunity only)
	EN 60730-2-12(EMC Emissions and Immunity only)
	EN 60730-2-13(EMC Emissions and Immunity only)
	EN 60730-2-15(EMC Emissions and Immunity only)

**Test Technology:****Test Method(s)<sup>1</sup>:**

<b>Immunity</b>	
<i>ESD</i>	IEC 61000-4-2; EN 61000-4-2; KN61000-4-2
<i>Radiated Immunity</i>	IEC 61000-4-3; EN 61000-4-3; KN61000-4-3
<i>EFT</i>	IEC 61000-4-4; EN 61000-4-4; KN61000-4-4
<i>Surge</i>	IEC 61000-4-5; EN 61000-4-5; KN61000-4-5
<i>Conducted Immunity</i>	IEC 61000-4-6; EN 61000-4-6; KN61000-4-6
<i>Magnetic Fields</i>	IEC 61000-4-8; EN 61000-4-8; KN61000-4-8
<i>VDI</i>	IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11
<b>Immunity (Family Standards)</b>	
	EN 55014-2; CISPR 14-2
	IEC 61547; EN 61547
	EN 55020; CISPR 20
	EN 55024; CISPR 24
	EN 55035; CISPR 35; KN 35
	EN 50130-4
	EN 50412-2-1
	IEC 61000-6-1; EN 61000-6-1
	IEC 61000-6-2; EN 61000-6-2
	ITU-T K.21; ITU-T K.44
<b>Radio</b>	
	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 300 328
	ETSI EN 300 330
	ETSI EN 300 440
	ETSI EN 301 489-1
	ETSI EN 301 489-3
	ETSI EN 301 489-17
	ETSI EN 301 489-19
	ETSI EN 301 489-34
	ETSI EN 301 489-52
	ETSI EN 301 511
	ETSI EN 301 893
	ETSI EN 301 908-1
	ETSI EN 301 908-2
	ETSI EN 301 908-4
	ETSI EN 301 908-13
	3GPP TS 51.010-1/ETSI TS 151 010-1
	3GPP TS 34.121-1/ETSI TS 134 121-1
	3GPP TS 36.521-1/ETSI TS 136 521-1
	ETSI EN 302 291-1; ETSI EN 302 291-2
	ETSI EN301 357
	ETSI EN302 502
	ETSI EN 302 208

**Test Technology:****Test Method(s)<sup>1</sup>:**

<i>Radio (Cont.)</i>	ETSI EN 303 340
	ETSI EN 303 413
	ETSI EN 303 417
	ETSI EN 303 345
	ETSI EN 303 372-2
	AS/NZS 4268
	AS/NZS 4771
	AS/CA S042.1
	AS/ACIF S042.3
	AS/CA S042.4
	MIC Article 2 Clause 1 Item 8
	MIC Article 2 Clause 1 Item 19
	MIC Article 2 Clause 1 Item 19-2
	MIC Article 2 Clause 1 Item 19-3
	MIC Article 2 Clause 1 Item 19-3-2
	MIC Article 2 paragraph 1 item (11)-3
	MIC Article 2 paragraph 1 item (11)-7
	MIC Article 2 paragraph 1 item (11)-19
	MIC Article 2 paragraph 1 item (11)-21
	ARIB STD-33
	ARIB STD-T63
	ARIB STD-T66
	ARIB STD-T67
	ARIB STD-T71
	ARIB STD-T81
	ARIB STD-T82
	ARIB STD-T92
	ARIB STD-T104
	ARIB STD-T108
	LP0002
	PLMN01
	PLMN08
	PLMN10
	RSS-Gen
	RSS-130
	RSS-132
	RSS-133
	RSS-139
	RSS-192
	RSS-195
	RSS-197
	RSS-199
	RSS-210
	RSS-216
	RSS-247
	RSS-310
	ANSI C63.10 (2013)
	DA 00-705 - March 30, 2000

**Test Technology:****Test Method(s)<sup>1</sup>:**

<b>Radio (Cont.)</b>	CFR 47, FCC Part 15, Subpart A
	CFR 47, FCC Part 15, Subpart C
	CFR 47, FCC Part 15, Subpart E
	FCC KDB558074
	FCC KDB662911
	FCC KDB680106
	FCC KDB789033
	FCC KDB905462
<b>Radio (Licensed Services)</b>	
<b>Commercial Mobile Services</b>	CFR 47, FCC Parts 22 (cellular), 24, 25 (below 3 GHz), and 27 (Using ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26:2015; KDB 971168 D01)
<b>General Mobile Radio Services</b>	CFR 47, FCC Parts 22 (non-cellular), 90 (below 3GHz), 95, 97 (below 3 GHz), and 101 (below 3GHz) (Using ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26:2015)
<b>Over the Air (OTA)</b>	CTIA Test Plan for Wireless Device Over-the-Air Performance 3GPP TS 34.114; 3GPP TR 25.914; 3GPP TS 25.144; 3GPP TR 37.902; 3GPP TS 37.544; 3GPP TS 37.144
<b>RF Exposure</b>	
	RSS-102
	IEEE/ANSI C95.1
	IEEE/ANSI C95.3
	Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01
	IEEE Std 1528
	IEC 62311/EN 62311
	IEC 62479/EN 62479
	IEC 62209-1/EN 62209-1
	IEC 62209-2/EN 62209-2
	EN 50360
	EN 50566
	EN 50385
	TEC/ER/MT/MUE-001
	YD/T 1644.1-2007
	MIC No. 88 Annex 79.3
	ARIB STD-T56
	Article 14-2 of the Ordinance Regulating Radio Equipment
	AS/NZS 2772.2
	ACA Radio Communication Standards
	47 CFR §2.1091 /47 CFR §2.1093
	KDB 447498
	KDB 865664
<b>Telecommunications</b>	
	ETSI EN 300 386
	ANSI/TIA-968-B; ANSI/TIA-968-B-1; ANSI/TIA-968-B-2; ANSI/TIA-968-B-3
	TIA-810-B
	47 CFR 68.316 and 68.317

**Test Technology:****Test Method(s)<sup>1</sup>:**

<i>Telecommunications (Cont.)</i>	CS-03 Part I; CS-03, Part II; CS-03, Part V; CS-03, Part VI; CS-03 Part VIII
	ETSI ES 203 021-1; ETSI ES 203 021-2; ETSI ES 203 021-3
	ETSI EG 201 121
	ETSI ES 202 913
	ETSI EN 301 437
	ETSI ES 203 038
	ETSI TS 101 270-1
	ETSI TS 101 388
	ETSI ETS 300 381
	TBR 4; TBR 12; TBR 13; TBR 15; TBR 17; TBR 21; TBR 38
	ITU-T G.991.2
	ITU-T G.992.1; ITU-T G.992.2; ITU-T G.992.3; ITU-T G.992.5
	ITU-T G.993.1; ITU-T G.993.2
	ITU-T P.370
	ITU-T P.313
	ITU-T Q.552
	AS/CA S002
	AS/CA S003.1; AS/CA S003.2; AS/CA S003.3
	AS/CA S004
	AS/ACIF S040
	AS/ACIF S016
	AS/ACIF S038
	AS/CA S041.1; AS/CA S041.2
	AS/CA S043.1; AS/CA S043.2
	PSTN01
	ADSL01
	JATE(1.5M)
	JATE (2M)
	JATE [Analog Telephone Terminals]
	HKTA 2011
	HKTA 2017
	IDA TS PSTN
	IDA TS ADSL
	MOC 023
	PTC 220
	PTC 200
	PTC 273
	PTC 274
	TNA 134

<sup>1</sup> When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories.

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1<sup>2</sup>

<b>Rule Subpart/Technology</b>	<b>Test Method</b>	<b>Maximum Frequency (MHz)</b>
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000
<u>Intentional Radiators</u> Part 15C	ANSI C63.10:2013	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>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26:2015	40000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Part 22 (non-cellular), 90 (below 3 GHz), 95, 97 (below 3 GHz) and 101 (below 3 GHz)	ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26:2015	40000
<u>Industrial, Scientific, and Medical Equipment</u> Part 18	FCC MP-5:1986	40000
<u>RF Exposure</u> Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000

<sup>2</sup> 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.

On the following products or types of products: Mobile Devices (use from the human body over 20cm); Portable Device (use from the human body within 20cm); XDSL Terminal Equipment; Telephone; T1/E1 (ISDN) Customer Premises Equipment; PSTN Telecommunication Terminal Equipment; Industrial, Scientific and Medical Equipment; Sound and Television Broadcast Receivers; Household Appliances; Lighting; Information Technology Equipment; Multimedia Equipment; Generic-Residential, Commercial and Light-industrial Environments; Generic-Industrial Environments; Telecommunication Network Equipment; Radio Devices.



# Accredited Laboratory

A2LA has accredited

**BTL INC.**

*Guangdong, 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 22<sup>nd</sup> day of January 2019.

A blue ink signature of the Senior Director of Accreditation Services.

Senior Director, Accreditation Services  
For the Accreditation Council  
Certificate Number 5123.02  
Valid to January 31, 2021

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