SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

BTL INC.
No. 3 Jinshagang 1st Rd. Shixia, Dalang Town
Dongguan City, Guangdong 523792
People's Republic of China
Ms. Sophia Huang Phone: +86-769-83183000 EXT. 526

ELECTRICAL[1]

Valid To: January 31, 2023 Certificate Number: 5123.02

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with A2LA's EPA ENERGY STAR® Accreditation Program requirements [2]) accreditation is granted to this laboratory at the location listed above, ***as well as the two satellite locations listed below***, to perform the following tests:

Test Technology:	**Test Method(s)[3]:**
Emissions	
Radiated and Conducted	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014)
	ANSI C63.4:2014
	ANSI C63.4a:2017
	ANSI C63.4-2014 amended as per ANSI C63.4a-2017
	CFR 47, FCC Part 18 (using FCC MP-5:1986)
	FCC MP-5
	ICES-001
	CAN/CSA-CEI/IEC CISPR 11
	CSA-CISPR 11
	ICES-003
	ICES-005
	CAN/CSA-CISPR 22
	CAN/CSA-CISPR 32
	BS EN 55011; EN 55011; CISPR 11; AS CISPR 11
	CISPR 13
	BS EN 55014-1; EN 55014-1; CISPR 14-1; AS/NZS CISPR 14.1; AS CISPR 14.1
	BS EN 55015; BS EN IEC 55015; EN 55015; EN IEC 55015; CISPR 15; AS/NZS CISPR 15; AS CISPR 15
	CISPR 22
	VCCI-CISPR 32
	BS EN 55032; EN 55032; CISPR 32; AS/NZS CISPR 32; KS C 9832
	CNS 13803
	CNS 13439
	CNS 13783-1
	CNS 13438

WITHDRAWN

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:	**Test Method(s)[3]:**
Emissions	
Radiated and Conducted (cont.)	BS EN 61000-3-2; BS EN IEC 61000-3-2; IEC 61000-3-2; EN 61000-3-2; EN IEC 61000-3-2; JIS C 61000-3-2
	BS EN 61000-3-3; IEC 61000-3-3; EN 61000-3-3
	BS EN 61000-6-3; IEC 61000-6-3; EN 61000-6-3; AS/NZS 61000.6.3
	BS EN 61000-6-4; BS EN IEC 61000-6-1; IEC 61000-6-4; EN 61000-6-4; EN IEC 61000-6-4; AS/NZS 61000.6.4
Immunity	
ESD	BS EN 61000-4-2; IEC 61000-4-2; EN 61000-4-2; KS C 9610-4-2
Radiated Immunity	BS EN 61000-4-3; BS EN IEC 61000-4-3; IEC 61000-4-3; EN 61000-4-3; EN IEC 61000-4-3; KS C 9610-4-3
EFT	BS EN 61000-4-4; IEC 61000-4-4; EN 61000-4-4; KS C 9610-4-4
Surge	BS EN 61000-4-5; IEC 61000-4-5; EN 61000-4-5; KS C 9610-4-5
Conducted Immunity	BS EN 61000-4-6; IEC 61000-4-6; EN 61000-4-6;KS C 9610-4-6
Magnetic Fields	BS EN 61000-4-8; IEC 61000-4-8; EN 61000-4-8; KS C 9610-4-8
VDI	BS EN 61000-4-11; BS EN IEC 61000-4-11; IEC 61000-4-11; EN 61000-4-11; EN IEC 61000-4-11; KS C 9610-4-11
Generic and Product Specific EMC	
	BS EN 60601-1-2; IEC 60601-1-2; EN 60601-1-2
	BS EN 50561-1; BS EN 50561-3; EN 50561-1; EN 50561-3
	BS EN 50121-1; BS EN 50121-4; EN 50121-1; EN 50121-4
	BS EN 55014-2; EN 55014-2; CISPR 14-2
	BS EN 61547; IEC 61547; EN 61547
	BS EN 55020; EN 55020; CISPR 20
	BS EN 55024; EN 55024; CISPR 24
	BS EN 55035; EN 55035; CISPR 35; KS C 9835
	BS EN 50130-4; EN 50130-4
	BS EN 50412-2-1; EN 50412-2-1
	BS EN 61000-6-1; BS EN IEC 61000-6-1; IEC 61000-6-1; EN 61000-6-1; EN IEC 61000-6-1
	BS EN 61000-6-2; BS EN IEC 61000-6-2; IEC 61000-6-2; EN 61000-6-2; EN IEC 61000-6-2
	ETSI EN 300 386
	ITU-T K.21; ITU-T K.44
Radio	
	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 300 422-1
	ETSI EN 300 422-2
	ETSI EN 300 422-3
	ETSI EN 300 422-4
	ETSI EN 300 440

WITHDRAWN

Test Technology:	**Test Method(s)[3]:**
Radio (Cont.)	ETSI EN 301 406
	ETSI EN 300 175-2
	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 301 489-34
	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 301 908-10
	ETSI EN 301 908-13
	3GPP TS 51.010-1, -2/ETSI TS 151 010-1
	3GPP TS 34.108
	3GPP TS 34.121-1, -2/ETSI TS 134 121-1
	3GPP TS 34.123-1, -2
	3GPP TS 34.124
	3GPP TS 36.124
	3GPP TS 36.508
	3GPP TS 36.521-1, -2, -3/ETSI TS 136 521-1
	3GPP TS 36.523-1, -2
	3GPP TS 38.124/ETSI TS 138 124
	3GPP TS 38.521-1/ETSI TS 138 521-1
	3GPP TS 38.521-3/ETSI TS 138 521-3
	3GPP TS 38.508-1/ETSI TS 138 508-1
	3GPP TS 38.508-2/ETSI TS 138 508-2
	3GPP TS 38.522/ETSI TS 138 522
	ETSI EN 302 291-1; ETSI EN 302 291-2
	ETSI EN 301 357
	ETSI EN 302 502
	ETSI EN 302 208
	ETSI EN 303 340
	ETSI EN 303 413
	ETSI EN 303 417
	ETSI EN 303 345-1; ETSI EN 303 345-2; ETSI EN 303 345-3; ETSI EN 303 345-4; ETSI EN 303 345-5
	ETSI EN 303 372-2
	ETSI EN 300 296
	ETSI EN 300 390
	ETSI EN 303 405
	ETSI EN 300 113
	ETSI EN 301 166
	ETSI EN 300 086

WITHDRAWN

Test Technology:	**Test Method(s)[3]:**
Radio (Cont.)	ETSI EN 300 219
	AS/NZS 4268
	AS/NZS 4771
	AS/NZS 4295
	AS/NZS 4768
	AS/NZS 4365
	AS/CA S042.1
	AS/ACIF S042.3
	AS/CA S042.4
	MIC Article 2 paragraph 1 Item (8)
	MIC Article 2 paragraph 1 Item (19)
	MIC Article 2 paragraph 1 Item (19)-2
	MIC Article 2 paragraph 1 Item (19)-3
	MIC Article 2 paragraph 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
	MIC Article 2 paragraph 1 item (11)-30
	MIC Article 2 paragraph 1 item (11)-34
	MIC Article 2 paragraph 1 item (54)-6
	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
	PLMN12
	RSS-GEN
	RSS-119
	RSS-130
	RSS-132
	RSS-133
	RSS-139
	RSS-140
	RSS-192
	RSS-195
	RSS-197
	RSS-199
	RSS-210

WITHDRAWN

Test Technology:	**Test Method(s)[3]:**
Radio (Cont.)	RSS-213
	RSS-216
	RSS-247
	RSS-310
	ANSI C63.10 (2013)
	ANSI C63.17 (2013)
	DA 00-705 - March 30, 2000
	CFR 47, FCC Part 15, Subpart A
	CFR 47, FCC Part 15, Subpart C (using ANSI C63.10:2013)
	CFR 47, FCC Part 15, Subpart D (using ANSI C63.17:2013)
	CFR 47, FCC Part 15, Subpart E (using ANSI C63.10:2013 and FCC KDB 905462 D02 (v02))
	FCC KDB 558074
	FCC KDB 662911
	FCC KDB 680106
	FCC KDB 789033
	FCC KDB 905462
	FCC KDB 971168
	FCC KDB 940660
Radio (Licensed Services)	
Commercial Mobile Services	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)
General Mobile Radio Services	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)
CBRS	CFR 47, FCC Part 96 (using ANSI/TIA-603-E-2016, ANSI/TIA-102.CAAA-E-2016, and ANSI C63.26:2015)
Broadcast Radio Services	CFR 47, FCC Parts 73 and 74 (below 3 GHz) (using ANSI/TIA-603-E, ANSI/TIA-102.CAAA-E, and ANSI C63.26:2015)
Maritime and Aviation Radio Services	CFR 47, FCC Parts 80 and 87 (using ANSI/TIA-603-E and ANSI C63.26:2015)
Over the Air (OTA)	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; ETSI EN 301 908-2; CTIA Test Plan for 2×2 Downlink MIMO and Transmit Diversity Over-the-Air Performance; CTIA/Wi-Fi Alliance Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices
RF Exposure (SAR, NS and MPE calculations)	
	RSS-102 (SAR, NS, and MPE)
	IEEE/ANSI C95.1
	SPR-002
	IEEE/ANSI C95.3
	Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01
	IEEE Std 1528

WITHDRAWN

Test Technology:	**Test Method(s)[3]:**
RF Exposure (Cont.)	IEEE/IEC 62209-1528
	BS EN 62311/IEC 62311/EN 62311/EN IEC 62311
	BS EN 62479/IEC 62479/EN 62479
	BS EN 62209-1/IEC 62209-1/EN 62209-1
	BS EN 62209-2/IEC 62209-2/EN 62209-2
	BS EN 50360/EN 50360
	BS EN 50566/EN 50566
	BS EN 50665/EN 50665
	BS EN 50663/EN 50663
	BS EN 50385/EN 50385
	BS EN 50364/EN 50364
	BS EN 62232/EN 62232
	TEC/ER/MT/MUE-001
	YD/T 1644.1
	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
Telecommunications	
	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
	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

WITHDRAWN

Test Technology:	**Test Method(s)[3]:**
Telecommunications (Cont.)	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
Bluetooth Radio	RF:1 RF-PHY:1 RF-PHY:2

WITHDRAWN

[1] This accreditation covers testing performed at the main laboratory listed above, and at the two satellite laboratories listed below:

Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone,
Dongguan City, Guangdong,
People's Republic of China
Ms. Sophia Huang Phone: +86-769-83103000

Test Technology:	**Test Method(s) [3,4]:**
Audio, Video and Similar Electronic Apparatus	IEC 60065; EN 60065; BS EN 60065; J 60065; AS/NZS 60065; UL 60065; CAN/CSA-C22.2 No. 60065; CNS 14408
Information technology equipment	IEC 60950-1; EN 60950-1; BS EN 60950-1; J 60950-1; AS/NZS 60950-1; UL 60950-1; CAN/CSA-C22.2 No. 60950-1; CNS 14336-1
Audio/video, information and communication technology equipment	IEC 62368-1; EN 62368-1; EN IEC 62368-1; BS EN 62368-1; BS EN IEC 62368-1; J 62368-1; AS/NZS 62368-1; UL 62368-1; CAN/CSA-C22.2 No.62368-1; CNS 15598-1
	IEC 62368-3; EN 62368-3; BS EN 62368-3
Power Supply	IEC 61558-1; EN 61558-1; BS EN 61558-1; AS/NZS 61558.1
	IEC 61558-2-6; EN 61558-2-6; BS EN 61558-2-6; AS/NZS 61558.2.6
	IEC 61558-2-7; EN 61558-2-7; BS EN 61558-2-7; AS/NZS 61558.2.7
	IEC 61558-2-16; EN 61558-2-16; BS EN 61558-2-16;

Test Technology:	**Test Method(s) [3,4]:**
Power Supply (cont.)	AS/NZS 61558.2.16
	IEC 61347-1; EN 61347-1; BS EN 61347-1; AS/NZS 61347.1
	IEC 61347-2-13; EN 61347-2-13; BS EN 61347-2-13; AS/NZS 61347.2.13
Battery	IEC 62133; EN 62133; BS EN 62133
	IEC 62133-1; EN 62133-1; BS EN 62133-1
	IEC 62133-2; EN 62133-2; BS EN 62133-2
	IEC 62281; EN 62281; BS EN 62281
	CNS 15364
	UN38.3
	UL 1642, UL 2054, UL 2056
IP Test	IEC 60529; EN 60529; BS EN 60529; AS/NZS60529
Sound Pressure Test	EN 50332-1; EN 50332-2; BS EN 50332-1; BS EN 50332-2
Fire Hazard Testing	IEC 60695-11-5; IEC 60695-2-10; IEC 60695-11-10
Energy Efficiency	IEC 62087; EN 62087; BS EN 62087; AS/NZS 62087; SANS 62087
	IEC 62301; AS/NZS 62301; SANS 62301; CAN/CSA C62301
	IEC 62623; EN 62623; BS EN 62623
	EN 50563; BS EN 50563
	EN 50564; BS EN 50564
	AS/NZS 4665.1; AS/NZS 4665.2; AS/NZS 62087.1; AS/NZS 62087.2.1; AS/NZS 62087.2.2
	CAN/CSA-C381.1; CAN/CSA C381.2;
	Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies, Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies.
	10 C.F.R. section 430.23(bb) (Appendix Z to subpart B of part 430); 10 C.F.R. Section 430.23(aa) (Appendix Y to Subpart B of Part 430); 10 C.F.R. section 430.23(h) (Appendix H to subpart B of part 430);
ENERGY STAR	ENERGY STAR ® Program Requirements Product Specification for Audio/Video; ENERGY STAR ® Program Requirements Product Specification for Computers; ENERGY STAR ® Program Requirements Product Specification for Displays; ENERGY STAR ® Program Requirements Product Specification for Enterprise Servers; ENERGY STAR ® Program Requirements Product Specification for Imaging Equipment; ENERGY STAR ® Program Requirements Product Specification for Set-top Boxes; ENERGY STAR ® Program Requirements Product Specification for Telephony; ENERGY STAR ® Program Requirements Product Specification for Televisions;

WITHDRAWN

Test Technology:	**Test Method(s) [3,4]:**
Radio (Excluding radiated and AC conducted emissions)	
	ETSI EN 301 511
	ETSI EN 301 908-1
	ETSI EN 301 908-2
	ETSI EN 301 908-13
	3GPP TS 51.010-1, -2/ETSI TS 151 010-1
	3GPP TS 34.108
	3GPP TS 34.121-1, -2/ETSI TS 134 121-1
	3GPP TS 34.123-1, -2
	3GPP TS 36.508
	3GPP TS 36.521-1, -2, -3/ETSI TS 136 521-1
	3GPP TS 36.523-1, -2
	3GPP TS 38.521-1/ETSI TS 138 521-1
	3GPP TS 38.521-3/ETSI TS 138 521-3
	3GPP TS 38.508-1/ETSI TS 138 508-1
	3GPP TS 38.508-2/ETSI TS 138 508-2
	3GPP TS 38.522/ETSI TS 138 522
	AS/CA S042.1
	AS/ACIF S042.3
	AS/CA S042.4
	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
	MIC Article 2 paragraph 1 item (11)-30
	MIC Article 2 paragraph 1 item (11)-34
	MIC Article 2 paragraph 1 item (54)
	MIC Article 2 paragraph 1 item (54)-6
	PLMN01
	PLMN08
	PLMN10
	PLMN12
	RSS-GEN
	RSS-130
	RSS-132
	RSS-133
	RSS-139
	RSS-140
	RSS-192
	RSS-195
	RSS-197
	RSS-199

WITHDRAWN

Test Technology:	**Test Method(s) [3,4]:**
Radio (Licensed Services)	
Commercial Mobile Services	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)
General Mobile Radio Services	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)
CBRS	CFR 47, FCC Part 96 (using ANSI/TIA-603-E-2016, ANSI/TIA-102.CAAA-E-2016, and ANSI C63.26:2015)
RF Exposure (SAR, and MPE calculations)	
	RSS-102 (SAR and MPE)
	IEEE/ANSI C95.1
	IEEE/ANSI C95.3
RF Exposure (Cont.)	Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01
	IEEE Std 1528
	IEEE/IEC 62209-1528
	BS EN 62311/IEC 62311/EN 62311/EN IEC 62311
	BS EN 62479/IEC 62479/EN 62479
	BS EN 62209-1/IEC 62209-1/EN 62209-1
	BS EN 62209-2/IEC 62209-2/EN 62209-2
	BS EN 50360/EN 50360
	BS EN 50566/EN 50566
	BS EN 50665/EN 50665
	BS EN 50663/EN 50663
	BS EN 50385/EN 50385
	BS EN 50364/EN 50364
	BS EN 62232/EN 62232
	TEC/ER/MT/MUE-001
	YD/T 1644.1
	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

WITHDRAWN

[2] A2LA provides accreditation to the U.S. EPA's *Conditions and Criteria for Recognition of Laboratories for the ENERGY STAR Program* by verifying an organization's compliance to A2LA document *R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program* and to the related test methods listed above.

Accreditation by A2LA does not infer Recognition by the EPA for ENERGY STAR testing. Please verify this organization's recognition status at the EPA's website, located at http://www.energystar.gov/index.cfm?fuseaction=recognized_bodies_list.show_RCB_search_form .

Unit101, 1/F, Universal square，Changbao West Road, Rongli, Ronggui Town,
Shunde District, Foshan 528313, Guangdong,
People's Republic of China
Ms. Sophia Huang Phone: +86-757-28886172

Test Technology:	**Test Method(s) [3,4]:**
Household Appliances	IEC 60335-1, EN 60335-1, BS EN 60335-1, AS/NZS 60335.1
	IEC 60335-2-9, EN 60335-2-9, BS EN 60335-2-9, AS/NZS 60335.2.9
	IEC 60335-2-14, EN 60335-2-14, BS EN 60335-2-14, AS/NZS 60335.2.14
	IEC 60335-2-15, EN 60335-2-15, BS EN 60335-2-15, AS/NZS 60335.2.15
	IEC 60335-2-65, EN 60335-2-65, BS EN 60335-2-65, AS/NZS 60335.2.65
	IEC 60335-2-29, EN 60335-2-29, BS EN 60335-2-29, AS/NZS 60335.2.29
	IEC 62233, EN 62233, BS EN 62233

[3]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 measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories.*

This accreditation covers testing/calibrations performed at all laboratory locations listed in this scope of accreditation

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 [5]:		
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-5:1986	40000
Intentional Radiators		
Part 15C	ANSI C63.10:2013	40000
Unlicensed Personal Communication Systems Part 15D	ANSI C63.17:2013	40000
U-NII without DFS Intentional Radiators		
Part 15E	ANSI C63.10:2013	40000
U-NII with DFS Intentional Radiators		

WITHDRAWN

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 [5]:		
Rule Subpart/Technology	**Test Method**	**Maximum Frequency (MHz)**
Part 15E	FCC KDB 905462 D02 (v02)	40000
Commercial Mobile Services (FCC Licensed Radio Service Equipment)		
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
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Part 22 (non-cellular),90 (below 3 GHz), 95, 97(below 3 GHz) and101 (below 3 GHz)	ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26:2015	40000
Maritime and Aviation Radio Services Parts 80 and 87	ANSI/TIA-603-E; ANSI C63.26:2015	40000
Broadcast Radio Services Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; ANSI/TIA-102.CAAA-E; ANSI C63.26:2015	40000
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96	ANSI/TIA-603-E-2016; ANSI/TIA-102.CAAA-E-2016; ANSI C63.26:2015	40000
RF Exposure		
Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000

WITHDRAWN

[5]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 Devices (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.

[4] **Exclusions Table**

IEC/EN 62368-1; IEC/BS EN/EN 62368-1; AS/NZS 62368.1; UL 62368-1; CAN/CSA-C22.2 No.62368-1		Three phase voltage
	5.4.3.3	Material group and CTI
	5.4.12	Insulating liquid test
	8.5.5	High pressure lamps
	Annex S.3	Flammability tests for the bottom of a fire enclosure
	Annex C	UV radiation
	Annex G.1	Components Switches
	Annex G.2	Components Relays
	Annex G.5.3.4	Transformers using fully insulated winding wire (FIW)
	Annex G.9	Integrated circuit (IC) current limiters
	Annex G.13.3	Coated printed boards
	Annex G.14	Coatings on component terminals
	Annex G.15	Pressurized liquid filled components
	Annex G.16	IC that includes a capacitor discharge function (ICX)
	Annex R	Limited short-circuit test
	Annex U	Mechanical strength of CRTs
	Annex Y	Construction requirements for outdoor enclosures
IEC/EN/ BS EN/J 60065, AS/NZS 60065，UL 60065，CAN/CSA-C22.2 No. 60065，CNS 14408		Three phase voltage
	12.3	REMOTE CONTROL devices held in hand
	13.4	CREEPAGE DISTANCES
	14.2	Resistors
	14.4	Inductors and windings
	14.6	Protective devices
	14.7	Switches
	14.12	Optocouplers
	20.1.3	DC PRINTED BOARDS
IEC/EN/ BS EN/J 60950-1，AS/NZS 60950-1，UL 60950-1，CAN/CSA-C22.2 No. 60950-1，CNS 14336-1		Three phase voltage
	2.10.4.2	Material group and comparative tracking index
	2.10.6.2	Coated printed boards
	2.10.8.4	Abrasion resistance test
	4.2.8	Cathode ray tubes
	4.2.9	High pressure lamps
	4.3.11	Containers for liquids or gases
	4.3.12	Flammable liquids
	4.3.13	Radiation
	A.3	Hot flaming oil test
IEC/EN/ BS EN 61558-1，AS/NZS 61558.1; IEC/EN/ BS EN 61558-2-6，AS/NZS 61558.2.6; IEC/EN/ BS EN 61558-2-7，AS/NZS 61558.2.7;	16	Tumbling barrel test
	17	IPX8
	18	10.2 size of appliance exceed 1.5mx1mx1m
	19	19.9 oxygen bomb test, 19.10 scratch test
	22	22.9.4 the power cable bending test
	26	26.3 for distance through insulation (dti), 26.3.3 scroll test
	27	27.4 tracking

WITHDRAWN

IEC/EN/ BS EN 61558-2-16，AS/NZS 61558.2.16		
IEC/EN/ BS EN 61347-1，AS/NZS 61347.1	8	14.4.5 Corrosion resistant
	14	14.5 high frequency spark; 14.6 160A current test
	18	18.5 resistant to tracking test
IEC 60335-1, EN 60335-1, BS EN 60335-1, AS/NZS 60335.1		Excluding Three phase voltage
	14	Transient overvoltages
	21.2	Scratch test
	22.3	Socket-outlet pins strain test
	22.7	Excessive pressure test
	22.16	Automatic cord reels
	22.32	Oxygen bomb and ceramic insulation
	22.48	Backsiphonage test
	22.46	Software evaluation
	24.1.1	Test of capacitors,
	24.1.4	Test of automatic controls
	24.1.5	Test of appliance couplers
	24.1.6	Test of lampholders
	27.4	Thickness of electroplated coating;
	29.2	Resistant to tracking test
	31	Resistance to rusting
	32	Radiation, toxicity and similar hazards
	Annex C	Ageing test on motors
	Annex F	Capacitors
	Annex J	Coated printed circuit boards
	Annex N	Prooftrackingtest
	Annex Q	Sequence of tests for the evaluation of electronic circuits
	Annex R	Software evaluation
IEC 60335-2-9, EN 60335-2-9, BS EN 60335-2-9, AS/NZS 60335.2.9		Excluding Three phase voltage
	14	Transient overvoltages
	31	Resistance to rusting
	32	Radiation, toxicity and similar hazards
IEC 60335-2-14, EN 60335-2-14, BS EN 60335-2-14, AS/NZS 60335.2.14		Excluding Three phase voltage
	14	Transient overvoltages
	20.2	125mm diameter test probe test;
	20.102	Blades shall be screened
	20.103	Biased-off switch test
	22.103	Appliance coupler of cordless blender stress test
	31	Resistance to rusting
	32	Radiation, toxicity and similar hazards
IEC 60335-2-15, EN 60335-2-15, BS EN 60335-2-15, AS/NZS 60335.2.15		Excluding Three phase voltage
	14	Transient overvoltages
	15.102	Solution is poured to the stand
	22.103	Cordless kettles insertion and extraction test;
	31	Resistance to rusting
	32	Radiation, toxicity and similar hazards
		Excluding Three phase voltage
	14	Transient overvoltages

WITHDRAWN

IEC 60335-2-29, EN 60335-2-29, BS EN 60335-2-29, AS/NZS 60335.2.29	31	Resistance to rusting
	32	Radiation, toxicity and similar hazards
IEC 60335-2-65, EN 60335-2-65, BS EN 60335-2-65, AS/NZS 60335.2.65		Excluding Three phase voltage
	14	Transient overvoltages
	31	Resistance to rusting
	32	Radiation, toxicity and similar hazards
IEC 62133-1, EN 62133-1, BS EN 62133-1	8.3.9	Design evaluation – Forced internal short circuit (cells)
IEC 62133-2, EN 62133-2, BS EN 62133-2	7.3.9	Design evaluation – Forced internal short-circuit (cells)
IEC 60529, EN 60529, BS EN 60529, AS/NZS 60529	IPX8	Excluding IPX8 test

WITHDRAWN

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 laboratory also meets the A2LA R222- Specific Requirements – EPA ENERGY STAR Accreditation Program. 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*).

WITHDRAWN

Presented this 21st day of December 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5123.02
Valid to January 31, 2023
Revised June 09, 2021

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