Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12121-01-00 according to ISO/IEC 17025:2005

Period of validity: 14.02.2019 to 13.02.2024 Date of issue: 14.02.2019

Holder of certificate:

STC (Dongguan) Company Limited
68 Fu Min Nan Road Dalang, Dongguan GUANGDONG 523770
P. R. CHINA

Tests in the fields:

Electromagnetic Compatibility (EMC), Safety of electrical appliances and Energy Efficiency and Energy Star

Within the scope of accreditation marked with with *), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard testing methods listed here with different issue dates.

The testing laboratory maintains a current list of all testing standards / equivalent testing procedures within the flexible scope of accreditation.

***flexible scope (Page 1-20)**
Non flexible Scope (Page 21-26)

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	IEC 61000-6-1: 2016 EN 61000-6-1: 2007 BS EN 61000-6-1: 2007	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards; Immunity for residential, commercial and light-industrial environments.	
EMC	IEC 61000-6-2: 2016 EN 61000-6-2: 2005 BS EN 61000-6-2: 2005	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards - Immunity for industrial environments.	

Abbreviations used: see last page

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	IEC 61000-6-3: 2006+ A1: 2010 EN 61000-6-3: 2007+ A1:2011+ AC:2012 BS EN 61000-6-3: 2007+ A1:2011	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards; Emission standard for residential, commercial and light industrial environments.	Single phase up to 16A only
EMC	IEC 61000-6-4: 2018 EN 61000-6-4: 2007+ A1: 2011 BS EN 61000-6-4: 2007+ A1: 2011	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards; Emission standard for industrial environments.	Single phase up to 16A only
EMC	IEC 61000-3-2: 2018 EN 61000-3-2: 2014 BS EN 61000-3-2: 2014	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).	Single phase only
EMC	IEC 61000-3-3: 2013+ A1:2017 EN 61000-3-3: 2013 BS EN 61000-3-3: 2013	Electromagnetic compatibility (EMC) – Part 3-3: Limits; Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated current ≤16 A per phase and not subjected to conditional connection	Single phase up to 16A only
EMC	IEC 61000-4-2: 2008 EN 61000-4-2: 2009 BS EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	
EMC	IEC 61000-4-3: 2006+ A1: 2007+ A2: 2010 EN 61000-4-3: 2006+ A1: 2008+A2: 2010 BS EN 61000-4-3: 2006+ A1: 2008+ A2: 2010	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	Frequency range up to 6 GHz
EMC	IEC 61000-4-4: 2012 EN 61000-4-4: 2012 BS EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	IEC 61000-4-5: 2014 +A1:2017 EN 61000-4-5: 2014 +A1:2017 BS EN 61000-4-5:2014	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	
EMC	IEC 61000-4-6: 2013 EN 61000-4-6: 2014 BS EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	IEC 61000-4-8: 2009 EN 61000-4-8: 2010 BS EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test	
EMC	IEC 61000-4-9: 2016 EN 61000-4-9: 2016+AC:2017 BS EN 61000-4-9: 2016	Electromagnetic compatibility (EMC) – Part 4-9: Testing and measurement techniques – Pulse magnetic field immunity test	
EMC	IEC 61000-4-11: 2004 + A1: 2017 EN 61000-4-11: 2004 + A1: 2017 BS EN 61000-4-11:2004	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests	
EMC	IEC 61000-4-13: 2002+ A1: 2009 +A2: 2015 EN 61000-4-13: 2002+ A1: 2009 +A2: 2016 BS EN 61000-4-13: 2002+ A1: 2009 +A2: 2016	Electromagnetic compatibility (EMC) – Part 4-13: Testing and measurement techniques; Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests.	
EMC	EN 50130-4: 2011 +A1: 2014 BS EN 50130-4: 2011+A1:2014	Alarm systems – Part 4: Electromagnetic compatibility; Product family standard: Immunity requirements for components of fire, intruder and social alarm systems.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	IEC 60601-1-2:2014 EN 60601-1-2: 2015 BS EN 60601-1-2:2015	Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests - Technical aspects only	
EMC	IEC 61326-1: 2012 EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 1: General requirements	Single phase up to 16A only
EMC	IEC 61326-2-1: 2012 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	Single phase up to 16A only
EMC	IEC 61326-2-2: 2012 EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems.	Single phase up to16A only
EMC	IEC 61326-2-3: 2012 EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning.	Single phase up to 16A only
EMC	IEC 61326-2-4: 2012 EN 61326-2-4: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements -- Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9.	Single phase up to 16A only

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	IEC 61326-2-5: 2012 EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	Single phase up to 16A only
EMC	IEC 61326-2-6: 2012 EN 61326-2-6: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment.	Single phase up to 16A only
EMC	IEC/CISPR 11: 2015+A1:2016 EN 55011: 2016+A1:2017 BS EN 55011: 2016+A1:2017	Industrial, scientific and medical (ISM) equipment – Radio-frequency disturbance characteristics - Limits and methods of measurement	Single phase up to 16A only
EMC	IEC/CISPR 13: 2009+A1: 2015 EN 55013: 2013+ A1: 2016 BS EN 55013: 2013+ A1: 2016	Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement.	
EMC	IEC/CISPR 14-1:2016 EN 55014-1: 2017 BS EN 55014-1: 2017	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission.	Single phase up to 16A only
EMC	IEC/CISPR 14-2: 2015 EN 55014-2: 2015 BS EN 55014-2: 2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard	
EMC	IEC/CISPR 15: 2018 EN 55015: 2013+A1: 2015 BS EN 55015: 2013+A1: 2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.	
EMC	IEC 61547: 2009 EN 61547: 2009 BS EN 61547: 2009	Equipment for general lighting purposes – EMC-immunity requirements.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	IEC/CISPR 20: 2006 + A1: 2013 EN 55020: 2007+ A11:2011+A12: 2016 BS EN 55020: 2007+ A11: 2011+A12: 2016	Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement.	
EMC	IEC/CISPR 22: 2008 EN 55022: 2010+ AC :2011 BS EN 55022: 2010	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement.	
EMC	IEC/CISPR 24: 2010 +A1: 2015 EN 55024: 2010+A1: 2015 BS EN 55024: 2010+A1: 2015	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement. Information technology equipment – Immunity characteristics – Limits and methods of measurement	Single phase up to 16A only
EMC	IEC/CISPR 32: 2015 EN 55032: 2015+ AC:2016 BS EN 55032: 2015	Electromagnetic compatibility of multimedia equipment –Emission requirements	
EMC	IEC/CISPR 35: 2016 EN 55035: 2017 BS EN 55035: 2017	Electromagnetic compatibility of multimedia equipment – Immunity Requirements	
EMC	EN55103-1:2009 +A1:2012 BS EN 55103-1:2009 +A1:2012	Electromagnetic compatibility – Product family standard for audio, video, audio- visual and entertainment lighting control apparatus for professional use - Part 1: Emissions	
EMC	EN55103-2:2009/IS1: 2012 BS EN 55103-2:2009	Electromagnetic compatibility - Product family standard for audio, video, audio- visual and entertainment lighting control apparatus for professional use - Part 2: Immunity	
EMF	IEC 62311: 2007 EN 62311: 2008 BS EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	
EMC	EN 50083-2:2012 +A1:2015	Cable networks for television signals, sound signals and interactive services — Part 2: EMC for equipment	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	EN 50121-1:2017	Railway applications — EMC — Part 1: General	
EMC	EN 50121-2:2017	Railway applications — EMC — Part 2: Emission of the whole railway system to the outside world	
EMC	EN 50121-3-1:2017	Railway applications — EMC — Part 3-1:Rolling stock - Train and complete vehicle	
EMC	EN 50121-3-2:2016	Railway applications — EMC — Part 3-2: Rolling stock – Apparatus	
EMC	EN 50121-4:2016	Railway applications — EMC — Part 4: Emission and immunity of the signaling and telecommunications apparatus	
EMC	EN 50121-5:2017	Railway applications — EMC — Part 5: Emission and immunity of fixed power supply installations and apparatus	
EMC	EN 50293: 2012	Road traffic signal systems — Electromagnetic compatibility	
EMF	EN 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic fields	
EMF	EN 62479:2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
EMF	Health Physics 74 (4):492-522; 1998	ICNIRP GUIDELINES for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)	
EMF	Health Physics 99 (6):818-836; 2010	ICNIRP GUIDELINES for limiting exposure to time-varying electric and magnetic fields (1Hz – 100kHz)	
Radio	EN 300 220-1 V3.1.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
Radio	EN 300 220-2 V3.2.0 (2017-09)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Radio	EN 300 220-3-1 V2.1.1 (2016-12)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)	
Radio	EN 300 220-3-2 V1.1.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz	
Radio	EN 300 220-4 V1.1.1 (2017-02)	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Metering devices operating in designated band 169,400 MHz to 169,475 MHz	
Radio	EN300 440-1 V1.6.1 (2010-08)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods	Frequency: $f \leq 40$ GHz
Radio	EN300 440-2 V1.4.1 (2010-08)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices: Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive	Frequency: $f \leq 40$ GHz
Radio	EN 300 440 V2.1.1 (2017-03)	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Radio	EN 300 328 V2.1.1 (2016-11)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
EMC	EN 301 489-1 V2.2.0 (2017-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	Excluding clause 9.6 (Transients and surges in the vehicular environment)
EMC	EN 301 489-3 V2.1.1 (2017-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	Frequency: f ≤ 40 GHz
EMC	EN 301 489-9 V2.1.1 (2017-03)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	EN 301 489-17 V3.1.1 (2017-02)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	Frequency: f ≤ 6 GHz

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	EN 301 489-34 V2.1.1 (2017-04)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU	
Radio	EN 300 330-1 V1.8.1 (2015-03)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 1: Technical characteristics and test methods	
Radio	EN 300 330-2 V1.6.1 (2015-03)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive	
Radio	EN 300 330 V2.1.1 (2017-02)	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
EMC	EN 300 386 V2.1.1 (2016-07)	Telecommunication network equipment; Electromagnetic Compatibility (EMC) requirements;Harmonised Standard covering the essential requirements of the Directive 2014/30/EU	
Radio	EN 302 291-1 V1.1.1 (2005-07)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13,56 MHz; Part 1: Technical characteristics and test methods	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Radio	EN 302 291-2 V1.1.1 (2005-07)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13,56 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive	
Radio	EN 301 893 V2.1.1 (2017-05)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Radio	EN 303 345 V1.1.7 (2017-03)	Broadcast Sound Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Radio	EN 303 354 V1.1.1 (2017-03)	Amplifiers and active antennas for TV broadcast reception in domestic premises; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Radio	EN 303 413 V1.1.1 (2017-06)	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Radio	EN 303 417 V1.1.1 (2017-09)	Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
Radio	AS/NZS 4268: 2017	Radio equipment and systems – Short range devices – Limits and methods of measurement	Frequency: f ≤ 40 GHz
EMC	AS/NZS 61000.6.3: 2012	Electromagnetic compatibility(EMC) – Part 6.3: Generic standards – Emission standard for residential, commercial and light-industrial environments	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	AS/NZS 61000.6.4: 2012	Electromagnetic compatibility (EMC) – Part 6.4: Generic standards – Emission standard for industrial environments	
EMC	AS/NZS CISPR 13: 2012 +AMD1:2015	Sound and television broadcast receivers and associated equipment– Radio disturbance characteristics – Limits and methods of measurement	
EMC	AS/NZS CISPR 14.1: 2013	Electromaganetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emissions	
EMC	AS/NZS CISPR 15: 2011	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EMC	AS/NZS CISPR 22: 2009 with Amdt 1 (2010)	Information technology equipment – Radio disturbance characteristics– Limits and methods of measurement	
EMC	AS/NZS CISPR 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EMC	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	
EMC	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	Frequency: $f \leq 40$ GHz
EMC	EN 60118-4:2006	Electroacoustics — Hearing aids — Part 4: Induction loop systems for hearing aid purposes — Magnetic field strength	
EMC	EN 61204-3:2001	Low voltage power supplies, d.c. output — Part 3: Electromagnetic compatibility (EMC)	
EMC	EN 62040-2:2006	Uninterruptible power systems (UPS) — Part 2: Electromagnetic compatibility (EMC) requirements	
EMC	EN 12015:2014	Electromagnetic compatibility— Product family standard for lifts, escalators and moving walks — Emission	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	EN 12016:2013	Electromagnetic compatibility— Product family standard for lifts, escalators and moving walks — Immunity	
EMC	ICES-003 Issue 6 January 2016	Information Technology Equipment (Including Digital Apparatus) — Limits and Methods of Measurement	
EMC	ICES-005 Issue 4 December 2015	Lighting Equipment	
Radio	RSS-210 Issue 9, August 2016	Licence-Exempt Radio Apparatus: Category I Equipment	Frequency: f ≤ 40 GHz
Radio	RSS-247 Issue 2, February 2017	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices	
Radio	RSS-310 Issue 4 December 2015	Licence-exempt Radio Apparatus (All Frequency Bands): Category II Equipment	
Radio	RSS-Gen Issue 4 November 2014	General Requirements for Compliance of Radio Apparatus	Frequency: f ≤ 40 GHz
Safety	IEC 60065:2014 EN 60065:2014 DIN EN 60065:2014	Audio, video and similar electronic apparatus- Safety requirements	Excluding the test of insulated winding wires according to
Safety	IEC 60335-1:2010 +A1:2013+A2:2016 EN60335- 1:2012+ A11:2014 DIN EN60335-1: 2012+A11:2014	Household and similar electrical appliances – Safety – Part 1: General requirements	Excluding testing of coated PCB according to annex J and excluding software
Safety	IEC60335-2-14:2016 EN60335-2-14:2006 + A1:2008 + A11:2012 + A12:2016 DIN EN60335-2-14: 2006 + A1:2008 +	Household and similar electrical appliances – Safety – Part 2-14: Particular requirements for kitchen machines.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Safety	IEC 60335-2-23:2016 EN 60335-2-23:2003 + A1:2008 + A11:2010 + A2:2015 DIN EN 60335-2-23: 2003 + A1:2008 + A11:2010 + A2:2015	Household and similar electrical appliances – Safety – Part 2-23: Particular requirements for appliances for skin or hair care.	
Safety	IEC 60335-2-65:2002 +A1:2008+A2 :2015 EN 60335-2-65:2003 + A1:2008 + A11:2012 DIN EN 60335-2-65: 2003 + A1:2008 + A11:2012	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances	
Safety	IEC 60335-2-80:2015 EN 60335-2-80:2003 + A1:2004 + A2:2009 EN 60335-2-80: 2015 DIN EN 60335-2-80: 2003 + A1:2004 + A2:2009	Household and similar electrical appliances – Safety – Part 2-80: Particular requirements for fans.	
Safety	IEC 60335-2-85:2002 +A1:2008 EN 60335-2-85:2003 + A1:2008 DIN EN 60335-2-85: 2003 + A1:2008	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers	
Safety	IEC 60335-2-85:2002 +A1:2008+A2:2017	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Safety	IEC 60335-2-98 ed. 2.2: 2008 EN 60335-2-98:2003 + A1:2005 + A2:2008 DIN EN 60335-2-98:2003 + A1:2005 + A2:2008	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	
Safety	IEC 62233 ed.1.0:2005 EN 62233:2008 DIN EN 62233:2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
Safety	IEC 60529:1989 + A1:1999 + A2:2013 EN 60529:1991 + A1:2000 + A2:2013 DIN EN 60529:1991 + A1:2000 + A2:2013	Degrees of protection provided by enclosures (IP Code).	Excluding IP9K
Safety	IEC 60598-1 ed. 8.0:2014+ A1:2017 EN 60598-1:2015 DIN EN 60598-	Luminaires – Part 1: General requirements and tests.	
Safety	IEC 60598-2-1 ed.1.0:1979 EN 60598-2-1:1989 DIN EN 60598-2-1: 1989	Luminaires – Part 2: Particular requirements – Section 1: Fixed general purpose luminaires.	
Safety	IEC60598-2-2 ed. 3.0:2011 EN60598-2-2:2012 DIN EN60598-2-2: 2012	Luminaires - Part 2-2: Particular requirements - Recessed luminaires	
Safety	IEC 60598-2-4 ed. 2.0:1997 IEC 60598-2-4:2017 EN 60598-2-4:1997 EN 60598-2-4:2018 DIN EN 60598-2-4:1997	Luminaires – Part 2: Particular requirements – Section 4: Portable general purpose luminaires.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Safety	IEC60598-2-11:2013 EN60598-2-11:2013 DIN EN60598-2-11: 2013	Luminaires - Part 2-11: Particular requirements - Aquarium luminaires	
Safety	IEC 60598-2-12 ed. 2.0:2013 EN 60598-2-12: 2013 DIN EN 60598-2-12: 2013	Luminaires – Part 2-12: Particular requirements - Mains socket-outlet mounted nightlights.	
Safety	IEC60598-2-13:2006 + A1:2011+A2:2016 EN60598-2-13:2006 + A1:2012+A2:2016 DIN EN60598-2-13: 2006 + A1:2012 +A2:2016	Luminaires -- Part 2-13: Particular requirements - Ground recessed luminaires	
Safety	IEC 60598-2-22:2014 +A1:2017 EN 60598-2-22:2014 +A1:2017 DIN EN 60598-2-22: 2014+A1:2017	Luminaires – Part 2-22: Particular requirements – Luminaires for emergency lighting.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Safety	IEC 60950-1 ed. 2.2:2013 EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 DIN EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013	Information technology equipment – Safety – Part 1: General requirements.	Excluding testing of coated PCB according to clause 2.10.6.6, excluding testing with respect to flammable liquids according to clause 4.3.12, excluding testing the effect of UV-radiation on materials according to clause 4.3.13.3, excluding the measurement of UV-radiation according to IEC 60825-9, excluding the
Safety	IEC 60968 ed. 2.0:2015 EN 60968:2015 DIN EN 60968:2015	Self-ballasted lamps for general lighting services – Safety requirements.	
Safety	IEC 60969 :2016 EN 60969:1993 + A1:1993 + A2:2000 EN 60969:2017 DIN EN 60969:1993 + A1:1993 + A2:2000	Self-ballasted lamps for general lighting services – Performance requirements.	
Safety	IEC 61347-1 :2015 + A1:2017 EN 61347-1:2015 DIN EN 61347-	Lamp control gear – Part 1: General and safety requirements.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Safety	IEC 61347-2-3: 2011+A1:2016 EN 61347-2-3:2011 +A1: 2017 DIN EN 61347-2-3: 2011+A1: 2017	Lamp control gear – Part 2-3: Particular requirements for a. c. supplied electronic ballasts for fluorescent lamps.	
Safety	IEC 61347-2-13: 2014+A1:2016 EN 61347-2-13:2014+ A1:2017 DIN EN 61347-2-13: 2014+ A1:2017	Lamp control gear - Part 2-13: Particular requirements for d. c. or a .c. supplied electronic control gear for LED modules.	
Safety	IEC 61558-1 ed. 2.1:2009 IEC 61558-1:2017 EN 61558-1:2005 + A1:2009 EN 61558-1:2017 DIN EN 61558-1:2005 + A1:2009	Safety of power transformers, power supply units and similar – Part 1: General requirements and tests.	excluding the test with respect to the ageing properties of rubber according to clause 19.9, excluding the test of insulated winding wires according to annex K and excluding testing
Safety	IEC 61558-2-6 ed. 2.0:2009 EN 61558-2-6:2009 DIN EN 61558-2- 6: 2009	Safety of power transformers, power supply units and similar – Part 2-6: Particular requirements for safety isolating transformers for general use.	
Safety	IEC 61558-2-7 ed. 2.0: 2007 EN61558-2-7: 2007 DIN EN 61558-2-7: 2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-7: Particular requirements and tests for transformers and power supplies for toys	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Safety	IEC61558-2-16:2009 +A1:2013 EN61558-2-16: 2009 +A1:2013 DIN EN61558-2-16: 2009+A1:2013	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	
Safety	IEC 62031:2008 +A1:2012 +A2:2014 IEC 62031:2018 EN 62031: 2008 + A1:2013+A2:2015 EN 62031:2017 DIN EN 62031:2008 + A1:2013+A2:2015	LED modules for general lighting – Safety specifications.	
Safety	IEC 62368-1:2014 EN 62368-1:2014 DIN EN 62368-1:2014	Audio/video, information and communication technology equipment – Part 1: Safety requirements.	
Safety	IEC 62384 ed. 1.1:2011 EN 62384:2006 + A1:2009 DIN EN 62384:2006 + A1:2009	DC or AC supplied electronic control gear for LED modules – Performance requirements.	
Safety	IEC 62471 ed. 1.0:2006 EN 62471:2008 DIN EN 62471:2008	Photobiological safety of lamps and lamp systems.	
Safety	IEC 62560:2011 +A1:2015 EN 62560:2012 +A1:2015 DIN EN 62560:2012 +A1:2015	Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications.	
Safety	IEC 62612:2013 +A1:2015 EN 62612:2013 DIN EN 62612:2013	Self-ballasted LED-lamps for general lighting services – Performance requirements.	
Energy Efficiency	EN 50285:1999 DIN EN 50285:1999	Energy efficiency of electric lamps for household use – Measurement methods.	

Testing Field	Standard/ In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Energy Efficiency	IEC 62087-1: 2015 EN 62087-1: 2016 DIN EN 62087-1:	Audio, video, and related equipment – Determination of power consumption – Part 1: General	
Energy Efficiency	IEC 62087-2: 2015 EN 62087-2: 2016 DIN EN 62087-2: 2016	Audio, video, and related equipment – Determination of power consumption – Part 2: Signals and media	
Energy Efficiency	IEC 62087-3: 2015 EN 62087-3: 2016 DIN EN 62087-3: 2016	Audio, video, and related equipment – Determination of power consumption – Part 3: Television sets	
Energy Efficiency	IEC 62087-4: 2015 EN 62087-4: 2016 DIN EN 62087-4: 2016	Audio, video, and related equipment – Determination of power consumption – Part 4: Video Recording equipment	
Energy Efficiency	IEC 62087-5: 2015 EN 62087-5: 2016 DIN EN 62087-5: 2016	Audio, video, and related equipment – Determination of power consumption – Part 5: Set-top-boxes	
Energy Efficiency	IEC 62087-6: 2015 EN 62087-6: 2015 DIN EN 62087-6: 2016	Audio, video, and related equipment – Determination of power consumption – Part 6: Audio equipment	
Energy Efficiency	IEC 62301 ed 2.0: 2011	Household electrical appliances – Measurement of standby power.	Limitation: Only single-phase
Energy Efficiency	EN 50564:2011	Electrical and electronic household and office equipment – Measurement of low power consumption.	

Non-flexible Scope

Testing Field	Standard/ In-House Procedure/ Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
EMC	FCC 47 CFR Part 15: 2018	FCC 47 CFR Part 15 Radio frequency devices.	Frequency: f ≤ 40 GHz
EMC	FCC 47 CFR Part 18: 2018	FCC 47 CFR Part 18 Industrial, scientific, and medical equipment.	
Energy Efficiency	Test procedures according to California Energy Commission Appliance Efficiency Regulation	US EPA Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC / AC-AC Power Supplies.	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 1275/2008 and Amending directive EC 801/2013	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for stand by and off mode electric power consumption of electrical and electronic household and office equipment.	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 642/2009 and Amending directive EC 801/2013	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for televisions	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 107/2009	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for simple set-top boxes	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 244/2009 and Amending directive EU 1428/2015	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for non-directional household lamps	

Testing Field	Standard/ In-House Procedure/ Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 859/2009 (Amending EC 244/2009)	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements on ultraviolet radiation for non-directional household lamps.	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 1194/2012 and Amending directive EU 1428/2015	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, for light emitting diode lamps and related equipment.	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 245/2009 and Amending directive EU 1428/2015 and EU 347/2010	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for fluorescent lamps without integrated ballast, for high intensity discharge lamps, and for ballasts and luminaires able to operate such lamps, and repealing Directive 2000/55/EC of the European Parliament and of the Council.	
Energy Efficiency	Test procedures according to Directive 2009/125/EC – 278/2009	Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power consumption and average active efficiency of external power supplies	
Energy Efficiency	Test procedure according to Directive 2010/30/EU – 874/2012	Supplement directive to 2010/30/EU regarding to energy labeling of electrical lamps and luminaires.	

Testing Field	Standard/ In-House Procedure/ Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Energy Efficiency	Test procedure according to Directive 2012/27/EU	DIRECTIVE 2012/27/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on energy efficiency, amending Directives 2009/125/EC and 2010/30/EU and repealing Directives 2004/8/EC and 2006/32/EC	
Energy Efficiency	Hong Kong Code of Practice on Energy Labelling of Products	Hong Kong Code of Practice on Energy Labelling of Products, October 2014 Edition.	Limitation: Compact Fluorescent Lamps only.
Energy Efficiency	Hong Kong Code of Practice on Energy Labelling of Products	HK Energy Efficiency Labelling Scheme-Voluntary (Light Emitting Diode) LED Lamps, Jan, 2014	
Energy Efficiency	Hong Kong Code of Practice on Energy Labelling of Products	HK Energy Efficiency Labelling Scheme-Voluntary Electronic Ballast, Jan,2016	Limitation: Excluding the performance requirements for AC- supplied ballasts for tubular fluorescent lamps according to IEC 60929.
Energy Efficiency	Energy-star program for Audio/Video	Energy Star Program Requirements – Product Specification for Audio/Video, Version 3.0 (Rev. Dec. 2014)	
Energy Efficiency	Energy-star program for Audio/Video	Energy Star Test Method for Audio/Video, Energy Star Program Requirements – Product Specification for Audio/Video, Rev. July-2012.	
Energy Efficiency	Energy-star program for Telephony	Energy Star Program Requirement – Product Specification for Telephony, Version 3.0 (Rev. Dec. 2014)	
Energy Efficiency	Energy-star program for Telephony	Energy Star Test Method for Telephony, Energy Star Program Requirements for Telephony, Rev. Nov, 2013.	
Energy Efficiency	Energy-star program for Televisions	Energy Star Program Requirements – Product Specification for Televisions, Version 7.0	
Energy Efficiency	Energy-star program for Televisions	Uniform Test Method for measuring theEnergy Consumption of Television Sets incorporated in Appendix H to Subpart B of 10CFR Part 430.	

Testing Field	Standard/ In-House Procedure/ Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Energy Efficiency	Energy-star program for Computers	Energy Star Program Requirements – Product Specification for Computers, Version 6.1.	
Energy Efficiency	Energy-star program for Computers	Energy Star Computer Test Method, EnergyStar Program Requirements for Computers, Rev. Aug 2014.	
Energy Efficiency	Energy-star program for Imaging equipment	Energy Star Imaging Equipment – Product Specification for Imaging Equipment, Version 2.0.	
Energy Efficiency	Energy-star program for Imaging equipment	Energy Star Imaging Equipment Test Method, Energy Star Program Requirements for Imaging Equipment, Rev. June 2013.	
Energy Efficiency	Energy Star Program for Luminaires – Energy Star Program for Lamps	IES LM-79:2008 Electrical and Photometric Measurements of solid-state products.	
Energy Efficiency	Energy Star Program for Luminaires –	IES LM-58:2013 Guide to Spectroradiometric Measurements.	
Energy Efficiency	Energy Star Program for Luminaires – Energy Star Program for Lamps	CIE No. 13.3:1995 Method of measuring and specifying colour rendering of light sources.	
Energy Efficiency	Energy Star Program for Luminaires – Energy Star Program for Lamps	CIE No. 15:2004 Colorimetry.	
Energy Efficiency	Energy Star Program for Luminaires – Energy Star Program for Lamps	ANSI C82.77-10: 2014 Harmonic Emission Limits – Related power quality requirements	
Energy Efficiency	Energy Star Program for Luminaires Energy Star Program for Lamps	Energy Star – Running up Time test method Sept 2015	
Energy Efficiency	Energy Star Program for Luminaires Energy Star Program for Lamps	Energy Star – Starting Time test method Sept 2015	

Testing Field	Standard/ In-House Procedure/ Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Energy Efficiency	Energy Star Program for Luminaires	ANSI C82.2:2002 Method of measurement of fluorescent lamp ballasts.	Limitation: Excluding clause 15.3: Rapid start ballasts.
Energy Efficiency	Energy Star Program for Luminaires	IES LM-9:2009 Electric and photometric measurements of fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires	IES LM-40: 2010 Life Test of fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires Energy Star Program for Lamps	IES LM-65:2014 Life testing of compact fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires Energy Star Program for Lamps	IES LM-66: 2014 Electrical and Photometric Measurements of single-ended compact fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires	IES LM-41: 2014 Photometric testing of indoor fluorescent luminaires.	
Energy Efficiency	Energy Star Program for Luminaires Energy Star Program for Lamps	IES LM-84:2014 Measuring luminous flux and color maintenance of LED lamps, light engines and luminaires.	
Energy Efficiency	Energy Star Program for Lamps	Energy Star – Ambient temperature life test method Sept 2015	
Energy Efficiency	Energy Star Program for Lamps	Energy Star – Elevated temperature life test method Sept 2015	
Energy Efficiency	Energy Star Program for Lamps	Energy Star – Elevated temperature light output ratio test method Sept 2015	
Energy Efficiency	Energy Star Program for Lamps	LM-20: 2013 Photometric testing of reflector – type lamps	
Energy Efficiency	Energy Star Program for Lamps	US DOE 81 FR 59385 Energy Conservation Program: Test procedure for compact fluorescent lamps	
Energy Efficiency	Energy Star Program for Lamps	US DOE 81 FR 43403 Energy Conservation Program: Test procedure for integrated light-emitting diode lamps	
Energy Efficiency	Energy Star Program for Luminaires	ANSI C82.2:2002 Method of measurement of fluorescent lamp ballasts.	Limitation: Excluding clause 15.3: Rapid start ballasts.

Testing Field	Standard/ In-House Procedure/ Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range/ Reductions
Energy Efficiency	Energy Star Program for Luminaires (	IES LM-9:2009 Electric and photometric measurements of fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires	IES LM-40: 2010 Life Test of fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires	IES LM-65:2014 Life testing of compact fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires	IES LM-66: 2014 Electrical and Photometric Measurements of single-ended compact fluorescent lamps.	
Energy Efficiency	Energy Star Program for Luminaires	IES LM-41: 2014 Photometric testing of indoor fluorescent luminaires.	