



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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**ELECTROMAGNETIC
COMPATIBILITY &
TELECOMMUNICATIONS**

NVLAP LAB CODE 100272-0

Emissions

Designation

Description

EN 55103-1 (2009)	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emission
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: Emission
EN 61000-6-4 (2007) + A1 (2011)	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN 61000-6-3 (2007) + A1 (2011)	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments
IEC 61000-6-3 Ed. 2.1 (2011)	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
IEC 61000-6-4 Ed. 2.1 (2011)	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
AS/NZS 61000.6.4 (2012)	Electromagnetic compatibility (EMC) - Generic standards - Emission standard for industrial environments

For the National Voluntary Laboratory Accreditation Program



ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100272-0

AS/NZS 61000.6.3 (2012)	Electromagnetic compatibility (EMC) - Generic standards - Emission standard for industrial environments
EN 61000-6-3 (2007) + A1 (2011) + AC (2012)	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
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
IEC 61326-2-3 (2012-07)	EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
IEC 61326-1 Ed. 2.0 (2012)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
EN 61326-2-6 (2013)	Electrical equipment for measurement, control and laboratory use. EMC requirements Particular requirements. In vitro diagnostic (IVD) medical equipment
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
IEC/CISPR 11 + A1 (1997), EN 55011 (1998), AS/NZS CISPR 11 (2002), and CNS 13803 (1997)	Limits and Methods of Measurement of Electromagnetic Disturbance Characteristics of Industrial, Scientific, and Medical Radio-Frequency Equipment
AS/NZS CISPR 11 (2011)	Industrial, scientific and medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
EN 55011 (2009) + A1 (2010)	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
IEC/CISPR 11 Ed. 6.0 (2015)	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010)	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
EN 55013 (2013)	Sound and television broadcast receivers and associated equipment. Radio disturbance characteristics. Limits and methods of measurement
AS/NZS CISPR 13:2012	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
IEC/CISPR 13, Ed. 5.0 (2009-06)	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
IEC/CISPR 13 ED. 5.1 (2015)	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1 (2006) +A1 (2009) +A2 (2011)	Electromagnetic Compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions



ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100272-0

AS/NZS CISPR 14.1 (2013)	Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission
IEC/CISPR 14-1 (2011)	Electromagnetic Compatibility - Requirements for Household Appliances, Electric Tools and Similar Apparatus - Part 1: Emission
EN 55022 (2010)	Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement
EN 55022 (2010) + AC (2011)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
IEC/CISPR 22 Ed. 6.0 (2008-09)	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment
CISPR 32, Ed. 1 (2012-01)	Electromagnetic compatibility of multimedia equipment - Emission requirements
AS/NZS CISPR 32 (2013)	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 32 (2015)	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55032 (2015)	Electromagnetic compatibility of multimedia equipment. Emission Requirements
IEC 61000-3-2, Edition 3.0 (2005-11), EN 61000-3-2 (2000), and AS/NZS 2279.1 (2000)	Electromagnetic Compatibility (EMC) Part 3-2: Limits - Limits for Harmonic Current Emissions (Equipment Input Current $\leq 16A$)
EN 61000-3-2 (2006) + A1 (2009) + A2 (2009)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16 A$ per phase)
EN 61000-3-2 (2014)	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current = 16 A per phase)
IEC 61000-3-2 Ed. 3.2 (2009)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16A$ per phase)
IEC 61000-3-2, Ed. 4.0 (2014-05)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current = 16 A per phase)
EN 61000-3-3, Ed. 2.0 (2008-09)	EMC- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low- voltage supply systems, for equipment with rated current $\leq 16 A$ per phase and not subject to conditional connection
EN 61000-3-3 (2013)	EMC- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low- voltage supply systems, for equipment with rated current $\leq 16 A$ per phase and not subject to conditional connection
IEC 61000-3-3 Ed. 3.0 (2013-05)	(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 subject to conditional connection



ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100272-0

FCC OST/MP-5 (1986)	FCC Methods of Measurement of Radio Noise Emissions for ISM Equipment (cited in 47 CFR FCC Part 18 - Industrial, Scientific, and Medical Equipment)
ANSI C63.4 (2014)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B <i>OATS facilities located: Upper Site - 29145 Old Lincoln Hwy, Wanship UT, 84017</i>
ANSI C63.4 (2009)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B <i>OATS facilities located: Upper Site - 29145 Old Lincoln Hwy, Wanship UT, 84017</i>
ANSI C63.10 (2013)	Intentional Radiators in 47 CFR FCC Part 15, Subpart C <i>OATS facilities located: Upper Site - 29145 Old Lincoln Hwy, Wanship UT, 84017</i>
ICES-004 Issue 4 (June 2013)	Alternating Current High Voltage Power Systems
ICES-003 Issue 6 (2016)	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES-005 Issue 4 (Dec 2015)	Radio Frequency Lighting Devices
ICES-006 Issue 2 (2009)	AC Wire Carrier Current Devices (Unintentional Radiators)
ICES-001 Issue 4 (2006)	Industrial, Scientific and Medical (ISM) Radio Frequency Generators
KN22 (Annex 5) with RRA Announce 2013-24 (June 17, 2013)	Test Method for Electromagnetic Interference (RRA Announce 2013-24, June 17, 2013) Korean only
KN 32:2015 (Annex 11)	Test Methods of radio disturbance for multimedia equipment
AS/NZS CISPR 22 (2009) +A1 (2010)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
Agreement of VCCI V-3 (2015.04)	Agreement of VCCI Council - Technical Requirements: V-3/2015.04 (including radiated disturbance > 1 GHz)

Immunity

Designation

EN 55103-2 (2009)

IEC 61000-6-1, 2nd edition
(2005-03)

IEC 61000-6-2, Edition 2.0
(2005-01)

EN 61000-6-2 (2005) + AC (2005)

Description

Electromagnetic compatibility - Product family standard for audio, video, audio-visual and
entertainment lighting control apparatus for professional use - Part 2: Immunity

Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 1: Immunity
for residential, commercial and light-industrial environments

Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for
industrial environments

Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for
industrial environments



ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100272-0

EN 61000-6-2 (2005)	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-1 (2007)	Electromagnetic compatibility (EMC) - Part 6 - 1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61326-1 (2013)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
IEC 61326-2-6 Ed. 2.0 (2012)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment
EN 55014-2 (1997) + A1 (2001) + A2 (2008)	Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Immunity
EN 55014-2 (2015)	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
IEC/CISPR 14-2 Ed. 1.2 (2008)	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
IEC/CISPR 14-2 Ed. 2. (2015)	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN 55020 (2007-01) + A11 (2011)	Sound and television broadcast receivers and associated equipment - immunity characteristics - Limits and methods of measurement
CISPR 24 ed2.0 (2010-08)	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 24 (2010) + A1 (2015)	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55024 (2010)	Information technology equipment. Immunity characteristics. Limits and methods of measurement
EN 55024 (2010) + A1 (2015)	Information technology equipment. Immunity characteristics. Limits and methods of measurement
IEC 61000-4-2, Ed. 2.0 (2008-12)	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-2 (2009-05)	Electromagnetic compatibility (EMC) - Part 4-2 : Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3, Ed. 3.0 (2006-02) + A1 (2007) + A2 (2010)	Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-3 (2006) + A1 (2008) + A2 (2010)	Electromagnetic compatibility (EMC). Testing and measurement techniques. Radiated, radio- Frequency, electromagnetic field immunity test
IEC 61000-4-3 Ed. 3.2 (2010)	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test



**ELECTROMAGNETIC COMPATIBILITY
& TELECOMMUNICATIONS**

NVLAP LAB CODE 100272-0

IEC 61000-4-4, Ed. 2.0 (2004-07)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-4 (2012)	Electromagnetic compatibility (EMC). Testing and measurement techniques. Electrical fast transient/burst immunity test
IEC 61000-4-4 (2012-04)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5, Ed. 2.0 (2005-11); EN 61000-4-5	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
IEC 61000-4-5 Ed. 3.0 (May 2014)	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
EN 61000-4-5 (2014)	Electromagnetic Compatibility (Emc) - Part 4-5: Testing And Measurement Techniques - Surge Immunity Test
IEC 61000-4-6 Ed. 3.0 (2008)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-6 Ed. 4.0 (2013)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-6 (2009)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-6 (2014)	Electromagnetic compatibility (EMC). Testing and measurement techniques. Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8 (2009)	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
EN 61000-4-8 (2010)	Electromagnetic compatibility (EMC). Testing and measurement techniques. Power frequency magnetic field immunity test
IEC 61000-4-11, Ed. 2 (2004-03) & EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-9, Ed 1.1 (2001-03)	EMC - Part 4-9: Testing and Measurement Techniques - Pulse Magnetic Field Immunity Test

Product Safety

Designation

IEC 60601-1-2, Ed. 3.0 (2007)

IEC 60601-1-2, Ed.4.0 (2014-02)

Description

Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements and tests

Radiated and Conducted emissions only

(Accreditation excludes clause 8.9, table 6 and clause 7.2, table 2) - Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Electromagnetic disturbances



**ELECTROMAGNETIC COMPATIBILITY
& TELECOMMUNICATIONS**

NVLAP LAB CODE 100272-0

EN 60601-1-2 (2015)	Medical electrical equipment. General requirements for basic safety and essential performance. Collateral Standard. Electromagnetic disturbances. Requirements and tests
EN 60601-1-2 (2007)	Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: EMC - Requirements and tests <i>Radiated and Conducted emissions only</i>
EN 60601-1-2 (2007) + AC (2010)	Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility - Requirements and tests
EN 60669-2-1:2004+A1:2009 +A12:2010, Clause 26	Switches for household and similar fixed electrical installations. Particular requirements. Electronic switches
IEC 60669-2-1 (2009)	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches <i>Clause 26; Conducted emissions, AC mains, Load, Control ports, tested in shielded room</i>
DNV 2.4 (April 2006); Section 3.14	ENVIRONMENTAL TEST SPECIFICATION FOR INSTRUMENTATION AND AUTOMATION EQUIPMENT

Radio

Designation

Description

ETSI EN 300 220-2 V2.4.1 (2012-05)	(ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETSI EN 300 328 V1.7.1 (2006-10)	ERM; Wideband Transmission Systems; Data transport equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETSI EN 300 328 V1.9.1 (2015-02)	ERM; Wideband Transmission Systems; Data transport equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETSI EN 300 330-1 V1.7.1 (2010-02)	ERM; Short Range Devices; Radio Equipment in the Frequency Range 9kHz to 25 MHz and Inductive Loop Systems in the Frequency Range 9kHz to 30 MHz; Part 1: Technical Characteristics and Test Methods
ETSI EN 300 330-2 V1.6.1 (2015-03)	ERM; Short Range Devices (SRD); Radio Equipment in the Frequency Range 9kHz to 30 MHz; Part 2: Harmonized EN Under Article 3.2 of the R&TTE Directive
ETSI EN 300 330-1 V1.8.1 (2015-03)	ERM; Short Range Devices; Radio Equipment in the Frequency Range 9kHz to 25 MHz and Inductive Loop Systems in the Frequency Range 9kHz to 30 MHz; Part 1: Technical Characteristics and Test Methods
ETSI EN 300 440-2 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



ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 100272-0

ETSI EN 301 489-9 v1.4.1 (2007-11)	ERM; 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
ETSI EN 301 489-1 V1.9.2 (2011-09)	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
ETSI EN 301 489-3 V1.6.1 (2013-08)	EMC standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS); Short Range Devices
ETSI EN 301 489-7 v1.3.1 (2005-11)	ERM; EMC standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)
ETSI EN 301 489-17 V2.2.1 (2012-09)	(ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems
AS/NZS 4268 (2012)	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4268 (2012) + A1 (2013)	Radio equipment and systems - Short range devices - Limits and methods of measurement
RSS-210, Issue 8 (December 2010)	Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment
RSS-210, Issue 8 (December 2010) + A1 (February 2015)	Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment
RSS-247, Issue 1 (May 2015)	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
RSS-Gen, Issue 3 (December 2010)	General Requirements and Information for the Certification of Radio Apparatus
RSS-Gen, Issue 4 (November 2014)	General Requirements for Compliance of Radio Apparatus