

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Compatible Electronics, Inc.**

114 Olinda Drive

Brea, CA 92823

Michael Christensen

Phone: 714-579-0500

Email: [mike@compatible-electronics.com](mailto:mike@compatible-electronics.com)

<http://www.celectronics.com>

**ELECTROMAGNETIC COMPATIBILITY &  
TELECOMMUNICATIONS**

**NVLAP LAB CODE 200528-0**

**Emissions**

**Designation**

**Description**

EN 55011 (2007) + A2 (2007)

Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement

EN 55013 (2001) + A1 (2003) + A2 (2006)

Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement

EN 55014-1 (2006) + A1 (2009)

Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

EN 55022 (2006) + A1 (2007)

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

EN 55022 (2006)

Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

EN 55022 (2010)

Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement

EN 55032 (2015)+A11(2020)

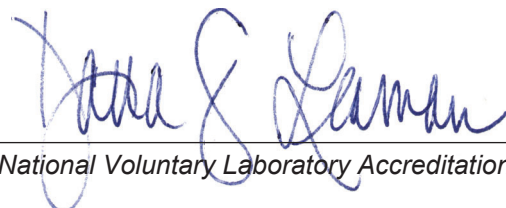
Electromagnetic compatibility of multimedia equipment - Emission Requirements

EN 55032 (2012-05)

Electromagnetic compatibility of multimedia equipment. Emission requirements

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



*For the National Voluntary Laboratory Accreditation Program*

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

KS C 9610-3-2:2020	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)
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)
KS C 9610-3-3:2020	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 $\leq 16$ A per phase and not subject to conditional connection
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. 2.0 (2008)	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
EN 61000-6-3 (2007)	Electromagnetic compatibility (EMC) - Part 6-3: Generic standard - Emission standard for residential, commercial and light industrial environments
EN 61000-6-3 (2007) + A1 (2011)	Electromagnetic compatibility (EMC) - Part 6-3: Generic standard - Emission standard for residential, commercial and light industrial environments
IEC 61000-6-4 (2006-07)	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
IEC 61000-6-4 (2006) +A1 (2010)	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN 61000-6-4 (2007) + A1 (2011)	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
IEC/EN 61204-3 (2001)	Low-voltage power supplies, d.c. output - Part 3: Electromagnetic compatibility (EMC)
IEC 61326-1 (2005-12)	Electrical equipment for measurement, control and laboratory use - EMC requirements
IEC 61326-2-1 (2005)	EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for EMC unprotected applications
IEC 61326-2-2 (2005)	EMC requirements. Particular requirements. Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

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 (2006)	EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
CNS 13438 (2006) (up to 6GHz)	Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
CNS 15936 (2016)	Electromagnetic compatibility of multimedia equipment - Emission requirements
ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices
AS CISPR 11 (2017)	Industrial, scientific and medical equipment—Radio-frequency disturbance characteristics—Limits and methods of measurement (CISPR 11:2015 +AMD1:2016 (ED.6.1) MOD)
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
IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000)	Limits and methods of measurement of radio disturbance characteristics of information technology equipment
AS/NZS CISPR 22, 3rd Edition (2006)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 22 (2009)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 22 (2009) +A1 (2010)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
KS C 9832:2019	Electromagnetic compatibility of multimedia equipment - Emission requirements (MOD CISPR 32:2015)
AS/NZS CISPR 32:2015+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements
AS/NZS CISPR 32 (2015)	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 32, Ed. 1 (2012-01)	Electromagnetic compatibility of multimedia equipment - Emission requirements
ANSI C63.4 (2014)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B
ANSI C63.4 (2003)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

ANSI C63.4 (2009)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B
ANSI C63.10 (2013)	Intentional Radiators in 47 CFR FCC Part 15, Subpart C
ANSI C63.4 (2003)	Intentional Radiators in 47 CFR FCC Part 15, Subpart C
ANSI C63.4 (2003) and Millimeter Wave Test Procedures	IDB 20040420-001 with 47 CFR FCC Part 15, Subpart C: Intentional Radiators
DA 00-705 - March 30, 2000 and KDB Pub. No. 558074	47 CFR FCC Part 15, Subpart C: Intentional Radiators - (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems - and - New Guidance on Measurements for Digital Transmission Systems in Section 15.247)
KDB Pub. No. 200443 Millimeter Wave Test Procedures	47 CFR FCC Part 15, Subpart C: Intentional Radiators
SS - MP with FCC Method - 15 CFR Part 15, Subpart C	Intentional Radiators
ANSI C63.17 (2013)	Unlicensed Personal Communications Service Devices in 47 CFR FCC Part 15, Subpart D
ANSI C63.17(1998) and ANSI C63.4 (2003)	Unlicensed Personal Communications Service Devices in 47 CFR FCC Part 15, Subpart D
ANSI C63.10 (2013)	Unlicensed National Information Infrastructure Devices without DFS Intentional Radiators in 47 CFR FCC Part 15, Subpart E
ANSI C63.4 (2003)	Unlicensed National Information Infrastructure Service Devices in 47 CFR Part 15, Subpart E
ANSI C63.4 (2003) and DA 02-2138	with FCC Method - CFR Part 15, Subpart E: Unlicensed National Information Infrastructure Service Devices - and - Measurement Procedure Update for Peak Transmit Power
UNII - MP	Unlicensed National Information Infrastructure Devices in 47 CFR FCC Part 15, Subpart E  <i>No DFS testing</i>
ANSI C63.10 (2013)	Ultra-Wideband Operation Intentional Radiators in 47 CFR FCC Part 15, Subpart F
ANSI C63.10 (2013)	Access Broadband Over Power Line (Access BPL) Intentional Radiators in 47 CFR FCC Part 15, Subpart G
ANSI C63.10 (2013)	White Space Device Intentional Radiators in 47 CFR FCC Part 15, Subpart H
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)
ICES-001	Industrial, Scientific and Medical (ISM) Radio Frequency Generators
ICES-003 Issue 7 (October 2020)	Information Technology Equipment (Including Digital Apparatus)

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

ICES-003 Issue 6 (2016)	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES-005 Issue 5 (Dec 2018)	Lighting Equipment
KCC Notice 2008-39	Korea Technical Requirements Electromagnetic Interference (EMI)
KN 22 with RRL Notice No. 2005-82 (Sept. 29, 2005)	RRL Notice No. 2005-82: Technical Requirements for Electromagnetic Interference Annex 8 (KN-22), RRL Notice No. 2005-131: Conformity Assessment Procedures for Electromagnetic Interference
KN 22 (Annex 5) with RRA Announce 2011-30 (Dec 23, 2011)	Conformity Assessment Procedure for Electromagnetic Interference; With KN 22 (Annex 5). K Only
KN 22 (Annex 8) with RRL Notice No. 2006-128 (Dec. 29, 2006)	Conformity Assessment Procedure for Electromagnetic Interference; With KN 22 (Annex 8)
KN 22 (Annex 8) with RRL Notice No. 2006-126 (Dec. 29, 2006)	Technical Requirements for Electromagnetic Interference; With KN22 (Annex 8)
KN 22 (Annex 8) with RRA Announce 2008-11 (Dec. 16, 2008)	Conformity Assessment Procedure for Electromagnetic Interference; With KN 22 (Annex 8)
KN 32:2015 (Annex 11)	Test Methods of radio disturbance for multimedia equipment
KN 32:2013 (Annex 16)	Test Methods of radio disturbance for multimedia equipment
RRA Announce 2009-9, Dec 21, 2009	Conformity Assessment Procedure for Electromagnetic Interference, K only
RRA Announce 2010-05, K only (December 24, 2010)	Conformity Assessment Procedure for Electromagnetic Interference (K only)
RRA Public Notification 2011-05 (Jan. 19, 2011)	Technical requirements for Electromagnetic Interference; Korea only
RRA Public Notification 2011-18 (July 05, 2011)	Technical Requirements for Electromagnetic Interference; Korea only
RRA Public Notification 2011-24 (Dec. 23, 2011)	Technical Requirements for Electromagnetic Interference; Korea only
RRA 2012-13 and RRA 2012-21, June 28, 2012, K only	Technical Requirements and Test Methods for Electromagnetic Interference; K only (See specific Annexes listed on scope)
RRA 2014-8 and RRA 2014-37 (June 23, 2014)	Technical Requirements and Test Methods for Electromagnetic Interference; K only (See specific Annexes listed on scope)
VCCI-CISPR 32 (2016)	Agreement of VCCI Council - Technical Requirements: VCCI-CISPR 32:2016 (up to 6 GHz)
Agreement of VCCI V-3 (2015.04)	Agreement of VCCI Council - Technical Requirements: V-3/2015.04 (including radiated disturbance above 1 GHz)

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

Agreement of VCCI V-3 (2008.04)	Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2008.04
Agreement of VCCI V-3 (2011.04)	Agreement of VCCI Council - Technical Requirements: V-3/2011.04 (including radiated disturbance above 1 GHz)
Agreement of VCCI V-3 (2012.04)	Agreement of VCCI Council - Technical Requirements: V-3/2012.04 (including radiated disturbance above 1 GHz)
Agreement of VCCI V-3 (2013.04)	Agreement of VCCI Council - Technical Requirements: V-3/2013.04 (including radiated disturbance above 1 GHz)

## Immunity

### Designation

EN 50130-4 (1995) + A1(1998) & A2(2003)

EN 50130-4 (2011)

EN 55024 (2010)

EN 55035 (2017) +A11 (2020)

EN 55035 (2017)

EN 55103-2 (2009)

KS C 9610-4-2:2017

IEC 61000-4-2, Ed. 1.2 (2001); EN 61000-4-2

IEC 61000-4-2, Ed. 2.0 (2008-12)

KS C 9610-4-3:2017

IEC/EN 61000-4-3, Ed. 2.1 (2002), A1 (2002); EN 61000-4-3

IEC 61000-4-3, Ed. 3.0 (2006-02)

### Description

Alarm systems - Part 4. Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems

Alarm systems. Electromagnetic compatibility. Product family standard. Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems

Information technology equipment. Immunity characteristics. Limits and methods of measurement

Electromagnetic Compatibility Of Multimedia Equipment - Immunity Requirements

Electromagnetic Compatibility Of Multimedia Equipment - Immunity Requirements (Cispr 35:2016, Modified)

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 4—2: Testing and measurement techniques — Electrostatic discharge immunity test

Electrostatic Discharge Immunity Test

Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

Electromagnetic compatibility (EMC) — Part 4-3: Testing and measurement techniques — Radiated, radio-frequency, electromagnetic field (MOD IEC 61000-4-3:2010)

Radiated, radio-frequency, electromagnetic field immunity test

Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

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
KS C 9610-4-4:2020	Electromagnetic compatibility (EMC) — Part 4-4: Testing and measurement techniques — Electrical fast transient, burst immunity test
IEC 61000-4-4(1995), A1(2000), A2(2001); EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
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
IEC 61000-4-4, Ed. 3.0 (2012-04)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
KS C 9610-4-5:2020	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
IEC 61000-4-5, Ed. 1.1 (2001-04); EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
BS EN 61000-4-5 (2006)	Electromagnetic compatibility (EMC). Testing and measurement techniques. Surge immunity test
KS C 9610-4-6:2020	Electromagnetic compatibility (EMC) — Part 4-6: Testing and measurement techniques — Immunity to conducted disturbances, induced by radio-frequency fields (MOD IEC 61000-4-6:2013)
IEC 61000-4-6, Ed. 2.2 (2006-05)	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
KS C 9610-4-8:2017	Electromagnetic compatibility (EMC) — Part 4—8: Testing and measurement techniques — Power frequency magnetic field immunity test
IEC 61000-4-8, Ed. 1.1 (2001); EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
IEC 61000-4-8 (2009)	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
KS C 9610-4-11:2020	Electromagnetic compatibility (EMC) — Part 4-11: Testing and measurement techniques — Voltage dips, short interruptions and voltage variations immunity tests

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

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
EN 61000-6-1 (2007)	Electromagnetic compatibility (EMC) - Part 6 - 1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2 (2005)	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61326-1(2006)	Electrical equipment for measurement, control and laboratory use - EMC requirements
EN 61326-1 (2013)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
IEC 61326-2-6, Ed. 1.0 (2005-12)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment
CISPR 24 (2010) + A1 (2015)	Information technology equipment - Immunity characteristics - Limits and methods of measurement
KS C 9835:2019	Electromagnetic compatibility of multimedia equipment - Immunity requirements (MOD CISPR 35:2016)
CISPR 35 (2016)	Electromagnetic compatibility of multimedia equipment - Immunity requirements
KCC Notice 2008-38	Korea Technical Requirements for Electromagnetic Susceptibility (EMS)
KN 24 (December 2005) with RRL Notice No. 2006-127	Information technology equipment - Immunity characteristics - Limits and methods of measurement
KN 24 (Annex 5) with RRA Announce 2011-31 (Dec. 23, 2011)	Conformity Assessment Procedure for Electromagnetic Susceptibility; with KN24 (Annex 5). K Only
KN 24 (Annex 11) RRA Announce 2008-12 (Dec. 16, 2008)	Conformity Assessment Procedure for EMS (Information technology equipment - Immunity characteristics - Limits and methods of measurement)
KN 35 (Annex 11-2); RRA Announce 2015-110 (Dec. 03, 2015)	Test methods for electromagnetic compatibility; K only
KN 35:2013 (Annex 15)	Electromagnetic compatibility of multimedia equipment - Immunity Requirements
Korea RRL Notice No. 31 (2004)	Conformity Assessment Procedures for Electromagnetic Susceptibility using KN 61000-4-2, KN 61000-4-3, KN 61000-4-4, KN 61000-4-5, KN 61000-4-8, KN 61000-4-11, KN 20, KN 41, and KN 50.
Korea RRL Notice 70 (2004)	Technical Requirements for Electromagnetic Susceptibility using KN 61000-4-2, KN 61000-4-3, KN61000-4-4, KN 61000-4-5, KN 61000-4-6, KN 61000-4-8, KN 20, KN 41, and KN 51
RRA Announce 2009-10, Dec 21, 2009	Conformity Assessment Procedure for Electromagnetic Susceptibility, K only



## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

RRA Public Notification 2010-06 (Dec. 24, 2010)	Conformity Assessment Procedure for Electromagnetic Susceptibility; Korea only
RRA Public Notification 2011-06 (Jan. 19, 2011)	Technical Requirements for Electromagnetic Susceptibility; Korea only
RRA Public Notification 2011-17 (July 05, 2011)	Technical Requirements for Electromagnetic Susceptibility; Korea only
RRA Public Notification 2011-25 (Dec. 23, 2011)	Technical Requirements for Electromagnetic Susceptibility; Korea only
RRA 2012-14 and RRA 2012-22 (June 28, 2012) K only	Technical Requirements and Test Methods for Electromagnetic Susceptibility; K only (See specific Annexes listed on scope)
RRA 2014-09 and RRA 2014-38 (June 23, 2014) K only	Technical Requirements and Test Methods for Electromagnetic Susceptibility; Korean only (See specific annexes listed on scope)

## Product Safety

### Designation

EN 60601-1-2 (2015)

IEC 60601-1-2, Ed. 4.0 (2014) + A1 (2020)

IEC 60601-1-2, Ed. 4.1 (2020-09)

IEC 60601-1-2, Ed. 4, (2014-02)

IEC 60601-1-2, Ed. 1 (1993); Ed. 2 (2001-09); JIS T0601-1-2 (2002.7)

IEC 60601-1-2, Ed 2.1 (2004-11) & EN 60601-1-2 (2002)

EN 60601-1-2 (2007)

EN 60601-1-2 (2001) + A1(2006)

EN 60730-1:2011

AS/NZS 4117 (1999)

### Description

Medical electrical equipment. General requirements for basic safety and essential performance. Collateral Standard. Electromagnetic disturbances. Requirements and tests

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

CSV Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Electromagnetic disturbances

Medical electrical equipment-Part 1-2: General requirements for basic safety and essential performance-Collateral Standard: Electromagnetic disturbances-Requirements and tests

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

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

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

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

Automatic electrical controls for household and similar use - Part 1: General requirements

Surge protective devices for telecommunications applications

## Product Safety - FDA Pilot Accreditation Scheme for Conformity Assessment (ASCA)

### Designation

### Description

**ELECTROMAGNETIC COMPATIBILITY &  
TELECOMMUNICATIONS**

**NVLAP LAB CODE 200528-0**

IEC 60601-1-2, Ed. 4.1 (2020-09)  
(FDA#19-36)

CSV Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Electromagnetic disturbances - (Accreditation excludes Figure 3, "nursing homes" as an example of the HOME HEALTHCARE ENVIRONMENT, Subclause 8.9, Table 8 on Page 39: The citation of Note k) under "Conducted disturbances induced by RF fields" (4th Row))

**Radio**

**Designation**

**Description**

ETSI EN 300 328 V2.2.2 (2019-07)

Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz band; Harmonised Standard for access to radio spectrum

ETSI 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

ETSI 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

ETSI EN 300 440-1 V1.6.1  
(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 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

ETSI EN 301 489-1 V2.2.3  
(2019-11)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility

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 V2.1.1  
(2019-03)

Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

ETSI EN 301 489-3 V1.6.1  
(2013-08)

Electromagnetic compatibility and Radio spectrum Matters (ERM); 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

ETSI EN 301 489-17 V3.2.4  
(2020-09)

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility

AS/NZS 4268 (2017)

Radio equipment and systems-Short range devices-Limits and methods of measurement

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

AS/NZS 4268 (2012) + A1 (2013)	Radio equipment and systems - Short range devices - Limits and methods of measurement
ACMA Radiocommunications (Short Range Devices) Standard 2014	For technical performance matters using AS/NZS 4268
ACMA Radiocommunications (Short Range Devices) Standard 2004	For technical performance matters using AS/NZS 4268.
AS/NZS 4268 (2008)	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4771 (2000) + Amendment No. 1	Technical characteristics and test conditions for data transmission equipment operating in the 900 MHz, 2.4 GHz and 5.8 GHz bands and using spread spectrum modulation techniques
IDA TS SRD Issue 1 Rev 6, May 2011	Technical Specification for Short Range Devices
IDA TS SRD Issue 1 Rev 7, April 2013	Technical Specification for Short Range Devices
IMDA TS SRD (October 2016)	Telecommunications Standards Advisory Committee (TSAC)- Technical Specification for Short Range Devices
KCC Public Notification 2009-27, Nov 5, 2009	Technical Requirements for the Human Protection against Electromagnetic Waves, K only
RSS-102 Measurement, Issue 5 (March 2015) + A1 (February 2021)	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) - RF Exposure (MEAS)
RSS-210, Issue 10 (December 2019) + A1 (April 2020)	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-210, Issue 9 (August 2016)	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-210, Issue 9 (August 2016) + A1 (November 2017)	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-210, Issue 10 (December 2019)	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-247, Issue 2 (February 2017)	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices <i>without DFS</i>
RSS-248, Issue 1 (November 2021)	Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band
RSS-310, Issue 4 (July 2015)	Licence-Exempt Radio Apparatus: Category II Equipment
RSS-Gen, Issue 5 + Amendment 2 (February 2021)	General Requirements for Compliance of Radio Apparatus

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

RSS-Gen, Issue 5 + Amendment 1  
(March 2019)

General Requirements for Compliance of Radio Apparatus

RSS-Gen, Issue 5 (April 2018)

General Requirements for Compliance of Radio Apparatus

### RF Exposure

#### Designation

IEEE C95.3-2021

#### Description

IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 100 kHz

### Telecommunications

#### Designation

EN 300 386 V1.3.2 (2003-05)

#### Description

Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements

ANSI/TIA-968-B (2009-08)

Telephone Terminal Equipment, Technical Requirements for Connection of Terminal Equipment to the Telephone Network

ANSI/TIA-968-B-2 (2015-01)

Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network- Addendum 2

ANSI/TIA-968-B-3 (2016-03)

Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network- Addendum 3

ISED CS-03

Industry Canada Certification Specification 03:1999 (CS-03:1999): Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility

ISED CS-03, Issue 9, Amendment 1  
(2005)

Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility (Sections I, II, V only)

ISED CS-03, Issue 9, +A2, +A3

Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility

ISED CS-03, Issue 9 Amendment 3  
(2007)

Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility

ISED CS-03, Issue 9 Amendment 4  
(2009)

Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility

ISED CS-03, Part 1, Issue 9,  
Amendment 5 (2016)

Requirements for Terminal Equipment (TE) and Related Access Arrangements Intended for Direct Connection to Analog Wireline Facilities

ISED CS-03, Part 1, Issue 9,  
Amendment 4 (2010)

Analogue Terminal Equipment (TE)

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

NVLAP LAB CODE 200528-0

ISED CS-03, Part II, Issue 9, Amendment 1 (2012)	Digital TE intended for connection to 1.544 Mbps (DS-1) digital facilities
ISED CS-03, Part V, Issue 9, Amendment 1 (2009)	Requirements and Test Methods for Magnetic Output from Handset Telephones for Hearing Aid Coupling and for Receive Volume Control
47 CFR FCC Part 68	Terminal Equipment Network Protection Standards - Analog and Digital
FCC/ACTA Method - 47 CFR Part 68	Terminal Equipment Network Protection Standards: Analog and Digital: 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection
47 CFR 68.316 and 68.317	Hearing aid compatibility: Technical requirements and Hearing aid compatibility volume control: technical standards
FCC/ACTA Method - 47 CFR Part 68	68.302 Environmental simulation (Par. a,b)
FCC/ACTA Method - 47 CFR Part 68	68.318 Consumer protection requirements
TIA/EIA TSB-31-B (1998)	Part 68 Rational and Measurement Guidelines