



CERTIFICATE OF ACCREDITATION

This is to attest that

UL KOREA, LTD.

218 MAEYEONG-RO, YEONGTONG-GU
GYEONGGI-DO 16675, REPUBLIC OF KOREA

Testing Laboratory TL-637

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 21, 2021



A handwritten signature in black ink, reading 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

UL KOREA, LTD.

www.korea.ul.com

Contact Name YongJin Suk

Contact Phone +82-220099370

Accredited to ISO/IEC 17025:2017

Effective Date June 21, 2021

Electromagnetic Compatibility & Telecommunications	
ANSI C63.4 (2003)	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
ANSI C63.4 (2009)	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
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
AS 62040.2	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
AS/NZS 61000.6.3	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
AS/NZS 61000.6.4	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
AS/NZS CISPR 11	Industrial scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement
AS/NZS CISPR 14.1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
AS/NZS CISPR 15	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
AS/NZS CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission requirements
CISPR 11:2015	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement
CISPR 11:2015+AMD1:2016+AMD2:2019 CSV	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

CISPR 13:2009/AMD1:2015	Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement
CISPR 14-1:2005/A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
CISPR 14-1:2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
CISPR 15:2013/AMD1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
CISPR 15:2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
CISPR 22:2008	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement
CISPR 25:2016	Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and method of measurement for the protection of on-board receivers (except sections: 5, 6.6, and 6.7)
CISPR 32:2015	Electromagnetic compatibility of multimedia equipment – Emission requirements
CISPR 32:2015/COR1:2016	Electromagnetic compatibility of multimedia equipment – Emission requirements
CISPR 32:2015/AMD1:2019	Amendment 1 – Electromagnetic compatibility of multimedia equipment – Emission requirements
EN 50498:2010	Electromagnetic compatibility (EMC) – Product family standard for aftermarket electronic equipment in vehicles
EN 55011:2016	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement
EN 55011:2016/A1:2017	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement
EN 55011:2016/A11:2020	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement
EN 55014-1:2006/A2:2011	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-1:2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-1:2017/A11:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

EN 55015:2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55015:2013/A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55032:2015	Electromagnetic compatibility of multimedia equipment – Emission requirements
EN 55032:2015/AC:2016-07	Electromagnetic compatibility of multimedia equipment – Emission requirements
EN 55032:2015/A11:2020	Electromagnetic compatibility of multimedia equipment – Emission requirements
EN 60601-1-2:2015	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests
EN 60945:2002	Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results (applicable sections: 9, 10 and 11 only)
EN 61000-3-2 (2006) + A1 (2009) + A2 (2009)	Limits for harmonic current emission (equipment input current \leq 16 A per phase)
EN 61000-3-2 (2014)	Limits for harmonic current emission (equipment input current \leq 16 A per phase)
EN 61000-3-3 (2008)	Limitation of voltage changes, voltage fluctuation 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)	Limitation of voltage changes, voltage fluctuation 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/A1:2019	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
IEC 61000-3-3:2013/AMD1:2017	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 61000-6-3:2007/A1:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-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

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

EN 61000-6-4:2007	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
EN 61204-3:2000	Low voltage power supplies, d.c. output – Part 3: Electromagnetic compatibility (EMC)
EN 61326-1:2013	Electrical equipment for measurement, control and laboratory use – EMC requirements –Part 1: General requirements
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
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
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
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
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
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 62040-2:2006/COR1:2011	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
EN IEC 61000-3-2:2019	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN IEC 61000-6-4:2019	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
EN IEC 61204-3:2018	Low-voltage switch mode power supplies – Part 3: Electromagnetic compatibility (EMC)

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

EN ISO 13766-1:2018	Earth-moving and building construction machinery – Electromagnetic compatibility (EMC) of machines with internal electrical power supply – Part 1: General EMC requirements under typical electromagnetic environmental conditions (except sections: 4.2, 4.3, and 4.4)
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 301 489-1 V2.1.1 (2017-02)	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
ETSI 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
ETSI EN 301 489-1 V2.2.3	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
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 301 489-3 V2.1.0 (2016-09)	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
ETSI 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
ETSI EN 301 489-4 V3.2.0 (2017-03)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-4 V3.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ETSI EN 301 489-5 V1.3.1 (2002-08)	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech)
ETSI EN 301 489-5 V2.1.1 (2016-11)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA) Harmonised Standard covering the essential requirements of article 3.1(b) of the Directive 2014/53/EU
ETSI EN 301 489-5 V2.2.0 (2017-03)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-5 V2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-7 V1.3.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (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)	Electromagnetic compatibility and radio spectrum matters (ERM); ElectroMagnetic compatibility (EMC) standard for radio equipment; Part 17: specific conditions for broadband data transmission systems
ETSI 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
ETSI EN 301 489-17 V3.2.0 (2017-03)	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
ETSI EN 301 489-17 V3.2.4	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ETSI EN 301 489-19 V2.1.0 (2017-03)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-19 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-20 V1.2.1 (2002-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)
ETSI EN 301 489-20 V2.1.0 (2017-10)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-20 V2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-23 V1.5.1 (2011-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment
ETSI EN 301 489-24 V1.5.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment
ETSI EN 301 489-50 V2.2.0 (2017-03)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-50 V2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

	Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
FCC 47 CFR Part 15 subpart B	Unintentional radiators
IEC 60533:2015	Electrical and electronic installations in ships – Electromagnetic compatibility (EMC) – Ships with a metallic hull
IEC 60601-1-2:2007	Medical electrical equipment Part 1-2: General requirements for basic safety and essential performance Collateral standard: Electromagnetic compatibility Requirements and tests
IEC 60601-1-2:2014	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests
IEC 60945:2002	Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results (applicable sections: 9, 10 and 11 only)
IEC 60945:2002/COR1:2008	Corrigendum 1 – Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results (applicable sections: 9, 10 and 11 only)
IEC 61000-3-2 (2005) + A1 (2008) + A2 (2009)	Limits for harmonic current emission (equipment input current ≤ 16 A per phase)
IEC 61000-3-2 (2009)	Limits for harmonic current emission (equipment input current ≤ 16 A per phase)
IEC 61000-3-2 (2014)	Limits for harmonic current emission (equipment input current ≤ 16 A per phase)
IEC 61000-3-2 (2018)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC 61000-3-3 (2008)	Limitation of voltage changes, voltage fluctuation and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
IEC 61000-3-3 (2013)	Limitation of voltage changes, voltage fluctuation and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
IEC 61000-6-3:2006+AMD1:2010	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
IEC 61204-3:2000	Low-voltage switch mode power supplies – Part 3: Electromagnetic compatibility (EMC)
IEC 61204-3:2016	Low-voltage switch mode power supplies – Part 3: Electromagnetic compatibility (EMC)
IEC 61326-1:2012	Electrical equipment for measurement, control and laboratory use – EMC requirements –Part 1: General requirements
IEC 61326-2-2:2012	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
IEC 61326-2-3:2012	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 61326-2-4:2012	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
IEC 61326-2-5:2012	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
IEC 61326-2-6:2012	Electrical equipment for measurement, control and laboratory use – EMC requirements –Part 2-6: Particular requirements – In vitro diagnostic (IVD) medical equipment
IEC 62040-2:2005/COR1:2011	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
ISO 7637-2:2011	Road vehicles – Electrical disturbances from conduction and coupling – Part 2: Electrical transient conduction along supply lines only
ISO 7637-3:2016	Road vehicles – Electrical disturbances from conduction and coupling – Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines
ISO 10605:2008	Road vehicles – Test methods for electrical disturbances from electrostatic discharge (except section: 10)

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ISO 11452-2:2019	Road vehicles – Component test methods for electrical disturbances form narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure
ISO 11452-3:2016	Road vehicles – Component test methods for electrical disturbances form narrowband radiated electromagnetic energy – Part 3: Transverse electromagnetic (TEM) cell
ISO 11452-4:2020	Road vehicles – Component test methods for electrical disturbances form narrowband radiated electromagnetic energy – Part 4: Harness excitation methods (except section: 6.2)
ISO 11452-8:2015	Road vehicles – Component test methods for electrical disturbances form narrowband radiated electromagnetic energy – Part 8: Immunity to magnetic fields (except sections: 6.2.2, 7.5, and 8.3.2)
ISO 11452-9:2012	Road vehicles – Component test methods for electrical disturbances form narrowband radiated electromagnetic energy – Part 9: Portable transmitters
ISO 13766-1:2018	Earth-moving and building construction machinery – Electromagnetic compatibility (EMC) of machines with internal electrical power supply – Part 1: General EMC requirements under typical electromagnetic environmental conditions (except sections: 4.2, 4.3, and 4.4)
ISO 16750-2:2012	Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part 2: Electrical loads (except sections: 4.2, 4.4, 4.5, 4.8, 4.9, 4.10, 4.11, 4.12, and 4.13)
VCCI-CISPR 32:2016	Electromagnetic compatibility of multimedia equipment – Emission requirements
Immunity	
CISPR 14-2:2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard
CISPR 24:2010/AMD1:2015	Information technology equipment – Immunity characteristics – Limits and methods of measurement
CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 50270:2015	Electromagnetic compatibility. Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50270:2015/AC:2016	Electromagnetic compatibility. Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

EN 55014-2:2015	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard
EN 55035:2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 55035:2017/A11:2020	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 61000-2-2:2002	Electromagnetic compatibility (EMC) - Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
EN 61000-2-2:2002/A1:2017	Electromagnetic compatibility (EMC) - Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
EN 61000-2-2:2002/A2:2019	Electromagnetic compatibility (EMC) - Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
EN 61000-4-2 (2009)	Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3 (2006) + A1 (2008) + A2 (2010)	Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4 (2004) + A1 (2010)	Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-4 (2012)	Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5 (2006)	Testing and measurement techniques - Surge immunity test
EN 61000-4-5 (2014)	Testing and measurement techniques - Surge immunity test
EN 61000-4-5:2014/A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
EN 61000-4-6 (2009)	Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-6 (2014)	Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-6:2014/AC:2015	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-6-AC (2015)	Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

EN 61000-4-8 (2010)	Testing and measurement techniques - Power frequency magnetic field immunity test
EN 61000-4-11 (2004)	Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test
EN 61000-4-11:2004/A1:2017	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-29:2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port 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 standard for industrial environments
EN 61000-6-5:2015	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment
EN 61000-6-5:2015/AC:2018-01	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment
EN IEC 61000-6-1:2019	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments
EN IEC 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
IEC 61000-2-2:2002	Electromagnetic compatibility (EMC) - Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
IEC 61000-2-2:2002+AMD1:2017+AMD2:2018	Electromagnetic compatibility (EMC) - Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems
IEC 61000-4-2 (2008)	Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3 Ed.3.2 (2010)	Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4 Ed.2.1 (2011)	Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5 (2005)	Testing and measurement techniques - Surge immunity test

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

IEC 61000-4-5 (2014)	Testing and measurement techniques - Surge immunity test
IEC 61000-4-5:2014+AMD1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
IEC 61000-4-6 Ed.3.0 (2008)	Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-6 (2013)	Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-6:2013/COR1:2015	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8 Ed.2.0 (2009)	Testing and measurement techniques - Power frequency magnetic field immunity test
IEC 61000-4-11 (2004)	Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-11:2004+AMD1:2017	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase
IEC 61000-4-29:2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests
IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments
IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
IEC 61000-6-2:2018	Electromagnetic compatibility (EMC) –Part 6-2: Generic standards – Immunity standard for industrial environments
IEC 61000-6-5:2015	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment
IEC 61547:2009 + IS1:2013	Equipment for general lighting purposes - EMC immunity requirements
ISO 7637-2 (2011)	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

Radio	
ANSI C63.10 (2009)	American national standard for testing unlicensed wireless devices
ANSI C63.10 (2013)	American National Standard for Testing Unlicensed Wireless Devices
ANSI C63.10 (2020)	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANSI C63.26 (2015)	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI/TIA-603-D (2010)	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
ANSI/TIA-603-E (2016)	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
Docket No. 03-122 (FCC 06-96)	National information infrastructure devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands incorporating dynamic frequency selection
ETSI EN 300 086 V2.1.2 (2016-08)	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI EN 300 086-1 V1.4.1 (2010-06)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Part 1: Technical characteristics and methods of measurement
ETSI EN 300 086-2 V1.3.1 (2010-06)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 300 220-1 V2.4.1 (2012-05)	Electromagnetic compatibility and Radio spectrum Matters (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 1: Technical characteristics and test methods
ETSI 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
ETSI EN 300 220-2 V2.4.1 (2012-05)	Electromagnetic compatibility and Radio spectrum Matters (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

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ETSI EN 300 220-2 V3.1.1 (2017-02)	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
ETSI 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 for access to radio spectrum for non specific radio equipment
ETSI EN 300 220-3 V1.1.1 (2000-09)	Electromagnetic compatibility and Radio spectrum Matters (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 3: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETSI 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)
ETSI 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
ETSI 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
ETSI EN 300 296 V2.1.1 (2016-03)	Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI EN 300 296-1 V1.4.1 (2013-08)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 1: Technical characteristics and methods of measurement
ETSI EN 300 296-2 V1.4.1 (2013-08)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 300 328 V1.9.1 (2015-02)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Wideband transmission systems; Data transmission equipment

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

	operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI 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
ETSI EN 300 328 V2.2.0 (2017-11)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard for access to radio spectrum
ETSI EN 300 328 V2.2.2	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 300 330-1 V1.2.2 (1999-05)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Technical characteristics and test methods for radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
ETSI 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
ETSI 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 covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 300 440 V2.1.1 (2017-01)	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 V2.2.0 (2017-09)	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum
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

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

	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 covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 357 V2.1.1 (2017-06)	Cordless audio devices in the range 25 MHz to 2 000 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
ETSI EN 301 357-1 V1.4.1 (2008-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Cordless audio devices in the range 25 MHz to 2 000 MHz; Part 1: Technical characteristics and test methods
ETSI EN 301 357-2 V1.4.1 (2008-11)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Cordless audio devices in the range 25 MHz to 2 000 MHz; Part 2: Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 502 V12.5.2 (2017-03)	Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
ETSI EN 301 511 V12.5.1 (2017-03)	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU (Clause 4.2.16, 4.2.17, 5.3.16 & 5.3.17)
ETSI EN 301 681 V2.1.2 (2016-11)	Satellite Earth Stations and Systems (SES); Harmonised Standard for Mobile Earth Stations (MES) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) under the Mobile Satellite Service (MSS), operating in the 1,5 GHz and 1,6 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI EN 301 893 V1.8.1 (2015-03)	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 893 V2.0.7 (2016-11)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
ETSI 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
ETSI EN 301 908-1 V11.1.1 (2016-07)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
ETSI EN 301 908-1 V13.1.1 (2019-11)	IMT cellular network; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ETSI EN 301 908-3 V13.0.1 (2017-12)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)
ETSI EN 301 908-7 V5.2.1 (2011-07)	IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 7: CDMA TDD (UTRA TDD) Base Stations (BS)
ETSI EN 301 908-9 V1.1.1 (2002-01)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Base Stations (BS) and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 9: Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) (BS) covering essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 908-11 V11.1.2 (2017-01)	Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 11: CDMA Direct Spread (UTRA FDD) Repeaters
ETSI EN 301 908-12 V7.1.1 (2016-05)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 12: CDMA Multi-Carrier (cdma2000) Repeaters
ETSI EN 301 908-15 V11.1.2 (2017-01)	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters
ETSI EN 301 908-17 V4.2.1 (2010-03)	Electromagnetic compatibility and Radio spectrum Matters (ERM) Base Stations (BS), Repeaters and User Equipment (UE) for IMT-2000 Third-Generation cellular networks; Part 17: Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) (BS) covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 908-18 V13.0.1 (2017-12)	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS)
ETSI EN 303 340 V1.1.2 (2016-09)	Digital Terrestrial TV Broadcast Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
ETSI EN 303 345 V1.1.1 (2016-07)	Broadcast Sound Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
ETSI 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

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

ETSI 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
ETSI EN 303 609 V12.5.1	Global System for Mobile communications (GSM); GSM Repeaters; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI TS 151 010-1 V13.11.0 (2020-02)	Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 13.11.0 Release 13) (Clause 12.2.1 and 12.2.2 only)
FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
FCC 47 CFR Part 15 subpart C	Intentional radiators
FCC 47 CFR Part 15 subpart E	Unlicensed national information infrastructure devices
FCC 47 CFR Part 15 subpart F	Ultra-Wideband Operation
FCC 47 CFR Part 18	Industrial, Scientific, and Medical Equipment
FCC 47 CFR Part 20	Signal Boosters
FCC 47 CFR Part 22 subpart H	Cellular radiotelephone service
FCC 47 CFR Part 24 subpart E	Broadband PCS
FCC 47 CFR Part 25 (non-microwave)	Satellite communications
FCC 47 CFR Part 27	Miscellaneous wireless communications services
FCC 47 CFR Part 30	Upper Microwave Flexible Use Service
FCC 47 CFR Part 90 Subpart R	Regulations Governing the Licensing and Use of Frequencies in the 763-775 and 793-805 MHz Bands
FCC 47 CFR Part 90 Subpart S	Regulations governing licensing and use of frequencies in the 806-824, 851-869, 896-901, and 935-940 MHz bands
FCC 47 CFR Part 90 Subpart Y	Regulations Governing Licensing and Use of Frequencies in the 4940-4990 MHz Band
FCC 47 CFR Part 90 Subpart Z	Wireless Broadband Services in the 3650-3700 MHz Band
FCC 47 CFR Part 96	Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)
FCC 47 CFR Part 101	Fixed Microwave Services
FCC Order	Compliance measurement procedures for unlicensed- ET

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

FCC Public Notice DA 00-705	Filing and measurement guidelines for frequency hopping spread spectrum systems
KDB Publication No. 558074	Guidance on measurements for digital transmission systems (47 CFR 15.247)
KDB Publication No. 935210	Signal Booster Measurements
KDB Publication No. 971168	Measurement Guidance for Certification of Licensed Digital Transmitters
RSS-102	Radio frequency (RF) exposure compliance of radio communication apparatus (all frequency bands)
RSS-111	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz
RSS-119	Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz
RSS-123	Licensed Wireless Microphones
RSS-130	Mobile broadband services (MBS) equipment operating in the frequency bands 698-756 MHz and 777-787 MHz
RSS-131	Zone Enhancers
RSS-132	Cellular telephone systems operating in the bands 824 849 MHz and 869-894 MHz
RSS-133	2 GHz personal communications services
RSS-134	900 MHz narrowband personal communication service
RSS-137	Location and Monitoring Service in the Band 902-928 MHz
RSS-139	Advanced wireless services equipment operating in the bands 1710-1755 MHz and 2110-2155 MHz
RSS-140	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS-170	Mobile Earth Stations (MESs) and Ancillary Terrestrial Component (ATC) Equipment Operating in the Mobile-Satellite Service (MSS) Bands
RSS-191	Local Multipoint Communication Systems in the Bands 25.35-28.35 GHz; Point-to-Point and Point-to-Multipoint Broadband Communication Systems in the Bands 24.25-24.45 GHz and 25.05-25.25 GHz; and Point-to-Multipoint Broadband Communications in the Bands 38.6-40.0 GHz
RSS-192	Fixed Wireless Access Equipment Operating in the Band 3450-3650 MHz

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

RSS-195	Wireless communications service equipment operating in the bands 2305-2320 MHz and 2345-2360 MHz
RSS-197	Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz
RSS-199	Broadband radio service (BRS) equipment operating in the band 2500-2690 MHz
RSS-210	License-exempt radio apparatus (all frequency bands): category I equipment
RSS-213	2 GHz License-Exempt Personal Communications Services (LE-PCS) Devices
RSS-216	Wireless Power Transfer Devices
RSS-220	Devices Using Ultra-Wideband (UWB) Technology
RSS-247	Digital transmission systems (DTSSs), frequency hopping systems (FHSs) and licence-exempt Local area network (LE-LAN) devices
RSS-310	License-exempt radio apparatus (all frequency bands): category II equipment
RSS-Gen	General requirements and information for the certification of radio apparatus
TIA/EIA 603-C (2004)	Land mobile FM or PM communications equipment measurement and performance standards
RF Exposure	
EN 50360 (2001) + A1 (2012)	Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz ~ 3 GHz)
EN 50360:2017	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear
EN 50383 (2002)	Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations and fixed terminal stations for wireless telecommunication systems (110 MHz ~ 40 GHz)
EN 50383 (2002) + 2010 + AC (2013)	Basic Standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations and fixed terminal stations for wireless telecommunication system (110 MHz - 40 GHz)
EN 50385 (2002)	Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

	systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110 MHz ~ 40 GHz)
EN 50385:2017	Product standard to demonstrate the compliance of base station equipment with radio frequency electromagnetic fields exposure limits (110 MHz – 100 GHz), when placed on the market
EN 50566 (2013)	Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz)
EN 50566:2017	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
EN 62209-1 (2006)	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)
EN 62209-1 (2016)	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300MHz to 6 GHz)
EN 62209-2 (2010)	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)
EN 62232:2017	Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure
EN 62311 (2008)	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz ~ 300 GHz)
EN 62479 (2010)	Assessment of compliance of low poser electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz ~ 300GHz)
EN IEC 62311:2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
FCC 47 CFR Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

FCC 47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
IEC 62209-1 (2005)	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close
IEC 62209-1 Ed. 2.0 (2016-07)	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300MHz to 6 GHz)
IEC 62209-2 (2010)	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) - Edition 1.0
IEC 62209-2:2010+AMD1:2019 CSV	Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)
IEC 62232:2017	Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure
IEC 62311:2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
IEC TR 63170:2018	Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz
IEC/IEEE 62209-1528:2020	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
IEEE Std 1528:2013	IEEE recommended practice for determining the peak spatial-average specific absorption rate (sar) in the human head from wireless communications devices: measurement techniques
IEEE Std C95.1 – 2019/Cor1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

IEEE Std C95.1 – 2019/Cor2-2020	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz Corrigenda 2
RSS-102	Radio frequency (RF) exposure compliance of radio communication apparatus (all frequency bands)
SPR-002	Supplementary Procedure for Assessing Compliance with RSS-102 Nerve Stimulation Exposure Limits
Hearing Aid Compatibility (HAC)	
ANSI C63.19-2007	American National Standard Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids
ANSI C63.19-2011	American National Standard Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids
ANSI C63.19-2019	Methods of Measurement of Compatibility Between Wireless Communications Devices and Hearing Aids
ANSI/TIA-5050:2018	Telecommunications Communications Products Receive Volume Control Requirements for Wireless (Mobile) Devices
CTIA HAC Test Plan	CTIA Test Plan for Hearing Aid Compatibility
FCC 47 CFR 20.19	Hearing aid-compatible mobile handsets
KDB Publication No. 285076	HAC Guidance
RSS-HAC	Hearing Aid Compatibility and Volume Control
Electrical Products	
ANSI/CTA-2037-A	Determination of Television Set Power Consumption
CAN/CSA C22.2 No. 60065-03	Audio, video and similar electronic apparatus - safety requirements (except sections: 6.2, 7 (three phase), 7.2, 8.18, 8.22, 12.3, 13.4, 14.2.5, 14.6.2, 16.3, 18, annex A, annex H)
CAN/CSA-C22.2 No. 60601-1	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
CAN/CSA C22.2 No. 60950-1-07	Information technology equipment - safety - part 1: general requirements (except sections: 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.12, 4.3.13.3, 4.3.13.4, 4.3.13.5.2, 4.6.2, annex T, annex AA, annex CC, annex A.3, and annex B.9)
CAN/CSA-C381.1-17	Energy performance of external ac-dc and ac-ac power supplies
CAN/CSA-C381.2-17	Energy performance of battery-charging systems and uninterruptible power supplies

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

CAN/CSA-C382-11	Energy performance of televisions and displays
CAN/CSA-C62301:11	Household electrical appliances - Measurement of standby power
CSA C22.2 No. 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements (except section 10)
EN 50563	External a.c.- d.c. and a.c.- a.c. power supplies – Determination of no-load power and average efficiency of active modes
EN 50564	Electrical and electronic household and office equipment - measurement of low power consumption
EN 60065	Audio, video and similar electronic apparatus - safety requirements (except sections: 6.2, 7 (three phase), 7.2, 8.18, 8.22, 12.3, 13.4, 14.2.5, 14.6.2, 16.3, 18, annex A, annex H)
EN 60601-1	Medical electrical equipment – part 1: general requirements for basic safety and essential performance (except sections: 10.1.2 and 10.3)
EN 60705	Household Microwave ovens - Methods for measuring performance (except sections: 10, 11, 12 and 13)
EN 60950-1	Information technology equipment - safety - part 1: general requirements (except sections: 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.12, 4.3.13.3, 4.3.13.4, 4.3.13.5.2, 4.6.2, annex T, annex AA, annex CC, annex A.3, and annex B.9)
EN 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements (except section 10)
IEC 60065	Audio, video and similar electronic apparatus - safety requirements (except sections: 6.2, 7 (three phase), 7.2, 8.18, 8.22, 12.3, 13.4, 14.2.5, 14.6.2, 16.3, 18, annex A, annex H)
IEC 60601-1	Medical electrical equipment – part 1: general requirements for basic safety and essential performance (except sections: 10.1.2 and 10.3)
IEC 60705	Household microwave ovens - Methods for measuring performance (except sections: 10, 11, 12 and 13)
IEC 60950-1	Information technology equipment - safety - part 1: general requirements (except sections: 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.12, 4.3.13.3, 4.3.13.4, 4.3.13.5.2, 4.6.2, annex T, annex AA, annex CC, annex A.3, and annex B.9)
IEC 61850-10	Communication networks and systems for power utility automation – Part 10: Conformance testing
IEC 62087-1	Audio, video, and related equipment – Determination of power consumption – Part 1: General

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

IEC 62087-2	Audio, video, and related equipment – Determination of power consumption – Part 2: Signals and media
IEC 62087-3	Audio, video, and related equipment – Determination of power consumption – Part 3: Television sets
IEC 62087-4	Audio, video, and related equipment – Determination of power consumption – Part 4: Video recording equipment
IEC 62087-5	Audio, video, and related equipment – Determination of power consumption – Part 5: Set top boxes (STB)
IEC 62087-6	Audio, video, and related equipment – Determination of power consumption – Part 6: Audio equipment
IEC 62087-7	Audio, video, and related equipment – Determination of power consumption – Part 7: Computer monitors
IEC 62301	Household electrical appliances - measurement of standby power
IEC 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements (except section 10)
IEC 62368-3	Audio/video, information and communication technology equipment – Part 3: Safety aspects for DC power transfer through communication cables and ports
IEC/EN 62087	Methods of measurement for the power consumption of audio, video and related equipment
INMETRO Ordinance No. 174/2012	Technical Regulation of Quality for Microwave Ovens
IS 616	Audio, video and similar electronic apparatus - safety requirements (except sections: 6.2, 7 (three phase), 7.2, 8.18, 8.22, 12.3, 13.4, 14.2.5, 14.6.2, 16.3, 18, annex A, annex H)
IS 13252	Information technology equipment - safety - part 1: general requirements (except sections: 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.12, 4.3.13.3, 4.3.13.4, 4.3.13.5.2, 4.6.2, annex T, annex AA, annex CC, annex A.3, and annex B.9)
NOM-032-ENER-2013	Maximum electrical power limits, for equipment and appliances requiring stand-by power, test methods and labeling
RTE INEN 117	Energy Efficiency of Televisions
UL 60065	Standard for audio, video and similar electronic apparatus - safety requirements (except sections: 6.2, 7 (three phase), 7.2, 8.18, 8.22, 12.3, 13.4, 14.2.5, 14.6.2, 16.3, 18, annex A, annex H)
UL 60601-1	Medical electrical equipment – Part 1: General requirements for basic safety and essential performance
UL 60950-1	Information technology equipment - safety - part 1: general requirements (except sections: 2.10.8.4, 3.2.5.1, 4.2.8, 4.3.12,

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

	4.3.13.3, 4.3.13.4, 4.3.13.5.2, 4.6.2, annex T, annex AA, annex CC, annex A.3, and annex B.9)
UL 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements (except section 10)
Energy Star Program Requirements	
Audio/Video	ENERGY STAR Program Requirements Product Specification for Audio/Video
Computers	ENERGY STAR Program Requirements Product Specification for Computers
Displays	ENERGY STAR Program Requirements Product Specification for Displays
Imaging Equipment	ENERGY STAR Program Requirements Product Specification for Imaging Equipment
Televisions	ENERGY STAR Program Requirements Product Specification for Televisions

KDB – FCC OET Laboratory Division Knowledge Database

RSS - Radio Standards Specification (Canada)