



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017¹

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ELECTRICAL (EMC)

Valid to: March 31, 2021

Certificate Number: 0803.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory *at the location listed above, as well as the four locations listed below*, to perform the following Emissions, Immunity, Wireless, and Military tests for electrical equipment:

STANDARD	DESCRIPTION OF STANDARD
AUSTRALIA / NEW ZEALAND	
ACMA SRD:2014	ACMA Radiocommunications (Short Range Devices) Standard: 2014
ARPANSA RPS-3	Maximum Exposure Levels to Radiofrequency Fields — 3 kHz to 300 GHz [Excluding SAR]
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4295	Analogue speech (angle modulated) equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS 4768.1	Digital radio equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 14.1: 2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission [Excluding clicks]
AS/NZS CISPR 14.2	Electromagnetic compatibility - Requirements for household appliances electric tools, and similar apparatus - Immunity
AS/NZS CISPR 25	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers [Excluding sections 5, 6.5 and 6.6]
AS/NZS CISPR 32: 2015	Electromagnetic compatibility of multimedia equipment – Emission Requirements
AS/NZS 61000-6-1	Electromagnetic Compatibility (EMC) Generic standard - Immunity for residential, commercial and light-industrial environments

STANDARD	DESCRIPTION OF STANDARD
AUSTRALIA / NEW ZEALAND (CONT'D)	
AS/NZS 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments
AS/NZS 61000-6-3: 2012	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
AS/NZS 61000-6-4: 2012	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
CANADA	
ICES 001	Industrial, Scientific and Medical (ISM) radio frequency generators
ICES 002	Vehicles, Boats and Other Devices Propelled by an Internal Combustion Engine, Electrical Means or Both
ICES 003	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES 004	Alternating current high voltage power systems
ICES 005	Radio frequency lighting devices
ICES 006	AC Wire Carrier Current Devices (Unintentional Radiators)
RSS-102	Evaluation procedure for mobile and portable radio transmitters with respect to health Canada's safety code 6 for exposure of humans to radio frequency fields [RF Exposure and Nerve Stimulation Only]
RSS-111	Broadband public safety equipment operating in the band (4940 to 4990) MHz
RSS-112	Land mobile and fixed equipment operating in the band (1670 to 1675) MHz
RSS-117	Land and coast station transmitters using A1, A2, A3, A2H, or A3H emissions operating in the (200 to 535) kHz band
RSS-119	Land mobile and fixed radio transmitters and receivers (27.41 to 960) MHz
RSS-123	Low power licensed radio communication devices
RSS-125	Land mobile and fixed radio transmitters and receivers, (1.705 to 50.0) MHz, primarily amplitude modulated
RSS-127	Air-Ground equipment operating in the bands (849 to 851) MHz and (894 to 896) MHz
RSS-130	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands (698 to 756) MHz and (777 to 787) MHz
RSS-131	Zone enhancers for the land mobile service
RSS-132	800 MHz Cellular telephones employing new technologies
RSS-133	2 GHz Personal communication services
RSS-134	900 MHz Narrowband personal communications services
RSS-135	Digital scanner receivers
RSS-137	Location and monitoring service (902 to 928) MHz
RSS-139	Advanced wireless services equipment operating in the bands (1710 to 1755) MHz and (2110 to 2155) MHz
RSS-140	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS-141	Aeronautical radio communication equipment in the frequency band (117.975 to 137) MHz
RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands

STANDARD	DESCRIPTION OF STANDARD
CANADA (CONT'D)	
RSS-170	Satellite mobile earth stations
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers operating in the (1,605 to 28,000) kHz band
RSS-182	Maritime radio transmitters and receivers in the band (156 to 162.5) MHz
RSS-191	Local multipoint communication systems in the 28 GHz band, point-to-point and point-to-multipoint broadband communication systems in the 24 GHz and 38 GHz bands
RSS-192	Fixed wireless access equipment operating in the band (3450 to 3650) MHz
RSS-194	Fixed wireless access equipment operating in the band (953 to 960) MHz
RSS-195	Wireless communications service equipment operating in the bands (2305 to 2320) MHz and (2345 to 2360) MHz
RSS-196	Point-to-Multipoint Broadband Equipment Operating in the Bands (512 to 608) MHz and (614 to 698) MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS-197	Wireless broadband access equipment operating in the band (3650 to 3700) MHz
RSS-199	Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz
RSS-210	Low power license exempt radio communication devices (All frequency bands)
RSS-211	Level Probing Radar Equipment
RSS-213	2 GHz License exempt personal communications service devices (PCS)
RSS-215	Analogue scanner receivers
RSS-216	Wireless Power Transfer Devices (Wireless Chargers)
RSS-220	Devices using ultra-wideband (UWB) technology
RSS-222	White Spaces Devices (WSDs)
RSS-236	General radio service equipment operating in the band (26.960 to 27.410) MHz
RSS-238	Shipborne Radar in the 2,900 to 3,100 MHz and 9,225 to 9,500 MHz Bands
RSS-243	Active medical implant communications system devices in the (402 to 405) MHz band
RSS-244	Medical Devices Operating in the Band 413-457 MHz
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices
RSS-251	Field Disturbance Sensors in the Bands 46.7-46.9 GHz and 76-77 GHz
RSS-252	Intelligent Transportation Systems — Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)
RSS-287	Emergency position indicating radio beacons (EPIRB), emergency locator transmitters (ELT), personal locator beacons (PLB), and maritime survivor locator devices (MSLD)
RSS-288	Global maritime distress and safety system (GMDSS)
RSS-310	Low-power license exempt radio communication devices (All frequency bands) category II equipment
RSS-GEN	General requirements and information for the certification of radio communication equipment



STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors – Emission
EN 12016 EN 12016: 2013 EN 12016: 2004+A1 EN 12016: 2004 EN 12016: 1998	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Immunity
EN 12184	Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods [Section 9.8 Only]
EN 13309	Construction machinery – Electromagnetic compatibility of machines with internal electrical power supply
EN 13763-26	Explosives for civil uses – Detonators and relays – Part 26
EN ISO 14982	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria
EN 15194 EN 15194:2009+A1	Cycles – Electrically power assisted cycles – EPAC Bicycles
EN 50065-1	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 1 General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1, 2, 3	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 2 Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 1485) kHz
EN 50083-2	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment
EN 50121-1	Railway applications - Electromagnetic compatibility - Part 1 General
EN 50121-3-2	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - Apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signalling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test (900 MHz, 5 MHz keyed carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.
EN 50370-2	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity
EN 50498	Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles
EN 55011	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 55012	Vehicles, boats and internal combustion engines. Radio disturbance characteristics. Limits and methods of measurement for the protection of off-board receivers
EN 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [Excluding clicks]
EN 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [table top equipment only for testing above 1 GHz]
EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 55103-1:2012	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity
EN 60601-1-2 EN 60601-1-2:2007	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [EMC sections only]
EN 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2.10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
EN 60601-2-12:2006	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2 Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC sections only]
EN 60601-2-34	Medical electrical equipment - Part 2-34 Particular requirements for the safety, including essential performance, of invasive blood pressure monitoring equipment [EMC sections only]



STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION CONT'D	
EN 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems [EMC sections only]
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC sections only]
EN ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
EN 60730-1 EN 60730-1:2011	Automatic electrical controls for household and similar use - Part 1 General requirements [EMC Sections Only]
EN 60730-2-9	Automatic electrical controls for household and similar use - Part 2 Particular requirements
EN 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
EN 60974-10:2015	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC) requirements
EN 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
EN 61000-4-13	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections only]
EN 61204-3:2001	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
EN 61326-2-1 EN 61326-2-2 EN 61326-2-3 EN 61326-2-5 EN 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-x Particular requirements - Test configurations, operational conditions and performance criteria
EN 61326-3-1 EN 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
EN 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [section 6.4.3, ref Annex E]
EN 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz-300GHz)
EN 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech
EN 300 113	Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 113-2	Electromagnetic compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 300 219	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver
EN 300 220-2	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
EN 300 220-3-1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)
EN 300 220-3-2	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: 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
EN 300 220-4	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Metering devices operating in designated band 169,400 MHz to 169,475 MHz
EN 300 224	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz
EN 300 328	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum
EN 300 330	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
EN 300 330-2	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
EN 300 386	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements
EN 300 422-1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers
EN 300 422-2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers
EN 300 422-3	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers
EN 300 422-4	Wireless Microphones; Audio PMSE up to 3 GHz; Part 4: Assistive Listening Devices including personal sound amplifiers and inductive systems up to 3 GHz
EN 300 433	Citizens' Band (CB) radio equipment
EN 300 440	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
EN 300 440-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency range
EN 300 454-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links
EN 301 357	Cordless audio devices in the range 25 MHz to 2 000 MHz
EN 300 487	Satellite Earth Stations and Systems (SES); Harmonised Standard for Receive-Only Mobile Earth Stations (ROMES) providing data communications operating in the 1,5 GHz frequency band
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-2 thru 35, 50, 53	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Parts 2 and up, specific conditions

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 301 502	Global System for Mobile communications (GSM); Base station and repeater equipment
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital wireless microphones operating in the CEPT harmonized band (1785 to 1800) MHz
EN 301 893	Wireless Access Systems; 5Hz Radio Local Area Network (RLAN)
EN 301 908-1 thru 22	-IMT Cellular Networks; Base Stations (BS) and Repeaters [-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20, -22]
EN 302 064-2	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band
EN 302 065-1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications
EN 302 065-2	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking
EN 302 066	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD); Ultra Low Power Active Medical Implants (ULP-AMI) and accessories (ULP-AMI-P) operating in the frequency range 9 khz to 315 kHz
EN 302 208	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W
EN 302 326-2	Fixed Radio Systems; Multipoint equipment and antennas; Part 2: digital multipoint radio equipment
EN 302 326-3	Fixed Radio Systems; Multipoint equipment and antennas; Part 3: multipoint radio antennas
EN 302 502	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems
EN 302 645	Electromagnetic compatibility and radio spectrum matters (ERM); Short range devices; Global navigation satellite systems (GNSS) repeaters
EN 303 413	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
EN 303 417	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
EN 303 454	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>EU DIRECTIVES</u>	
EU Regulation No 167/2013 EU Regulation No 2015/208 EU Regulation 2018/829/EU	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles
EU Directive 2007/46/EC	EU Directive establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles
EU Regulation No 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles
EU Regulation No 661/2009	EU Regulation concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor
<u>UNITED NATIONS</u>	
UN/ECE Addendum 9 Regulation 10 Rev 5 +A1 Rev 5 Rev 4+A1+A2+A3 Rev 4+A1+A2 Rev 4+A1 Rev 4	Concerning the Adoption of Uniform Technical Prescription for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition and Approvals Granted on the Basis of these Prescriptions. Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility
<u>IMDA SINGAPORE</u>	
IMDA TS AR	Technical specification for Amateur Radio Equipment
IMDA TS CBS	Technical specification for Cellular Base Station and Repeater System
IMDA TS CT-CTS	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [Excluding dect and phs]
IMDA TS GMPCS	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals
IMDA TS LMR	Technical specification for Land Mobile Radio Equipment
IMDA TS SRD	Technical specification for Short Range Devices (SRD)
IMDA TS UWB	Technical specification for Ultra-Wideband (UWB) Devices
IMDA TS WBA	Technical specification for Wireless Broadband Access (WBA) equipment

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL	
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
CISPR 12	Vehicles, boats, and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [Excluding clicks]
CISPR 14-2	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity - Product family standard
CISPR 15	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 [table top equipment only for testing above 1 GHz]
CISPR 24	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 25 CISPR25:2016 CISPR25:2008 CISPR25:2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement [2016:excluding sections 5, 6.6 and 6.7] [2008:excluding sections 5, 6.5 and 6.6] [2002:excluding sections 5 and 6.5]
CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission Requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Immunity requirements
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2 IEC 60601-1-2:2007	Medical electrical equipment - Part 1 General requirements for safety 2 - Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [EMC sections only]
IEC 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
IEC 60601-2-10	Medical electrical equipment - Part 2.10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
IEC 60601-2-12:2001	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
IEC 60601-2-22	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC sections only]

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [EMC sections only]
IEC 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
IEC 60601-2-47	Medical electrical equipment - Part 2-47 2 Particular requirements for the safety, including essential performance, of ambulatory electrocardiographic systems. [EMC sections only]
IEC 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC sections only]
IEC 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
IEC 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measurement techniques - Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments
IEC 61000-6-3	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
IEC 61326-2-1 IEC 61326-2-2 IEC 61326-2-3 IEC 61326-2-5 IEC 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-x Particular requirements - Test configurations, operational conditions and performance criteria
IEC 61326-3-1 IEC 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61850-3	Communication Networks and Systems in Substations [Excluding 5.7.1.3 and 5.7.3]
IEC 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
IEC 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems (note: only capable of performing EMC testing for section 6.4.3, ref Annex E)
IEC 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
IEC 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz-300GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
IEEE 1613	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations

STANDARD	DESCRIPTION OF STANDARD
ISO	
ISO 7637-1:1990	Road vehicles - Electrical disturbance by conduction and coupling - Part 1 Passenger cars and light commercial vehicles with nominal 12 V supply voltage - Electrical transient conduction along supply lines only
ISO 7637-2:1990	Road vehicles - Electrical disturbance by conduction and coupling - Part 2 Commercial vehicles with nominal 24 V supply voltage - Electrical transient conduction along supply lines only
ISO 7637-2 ISO 7637-2:2011 ISO 7637-2:2004+A1 ISO 7637-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only [Except Pulse 5 calibration into 2 Ohms T _d meets 400ms ±80ms]
ISO 7637-3 ISO 7637-3:2016 ISO 7637-3:2007	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 ISO 10605:2008+A1 ISO 10605:2008 ISO 10605:2001	Road vehicles - Test methods for electrical disturbances from electrostatic discharge
ISO 11452-2 ISO 11452-2:2019 ISO 11452-2:2004	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 Absorber-lined shielded enclosure
ISO 11452-4 ISO 11452-4:2011	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods (BCI method only)
ISO 11452-4:2005 ISO 11452-4:2001	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 Bulk current injection (BCI)
ISO 11452-5	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Stripline
ISO 11452-7:2003 ISO 11452-7:2003+A1	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 7: Direct radio frequency (RF) power injection
ISO 11452-8 ISO 11452-8:2015 ISO 11452-8:2007	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8 Immunity to magnetic fields
ISO 11452-10 ISO 11452-10:2009	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 10 Immunity to conducted disturbances in the extended audio frequency range

STANDARD	DESCRIPTION OF STANDARD
ISO (CONT'D)	
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
ISO 13766-2:2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety
ISO 13766:2006	Earth-moving machinery - Electromagnetic compatibility
ISO 14982:1998	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria
ISO 16750-2	Road vehicles -- Environmental conditions and testing for electrical and electronic equipment -- Part 2: Electrical loads [Excluding 4.6.2, 4.11, 4.12]
ISO 22200 ISO 22200:2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity
ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
JAPAN	
VCCI V-3 (up to 6 GHz)	Technical Requirements
VCCI-CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission Requirements
KOREA, REPUBLIC OF	
KN 11	CISPR 11: 2015
KN 14-1	CISPR 14-1: 2016 [Excluding clicks]
KN 14-2	CISPR 14-2: 2015
KN 15	CISPR 15: 2018
KN 17	Test Methods of radio disturbance for residential wireless power-transmission equipments [Excluding clicks]
KN 32	CISPR 32: 2012
KN 35	CISPR 35: 2012
KN 12015	EN 12015: 2004
KN 12016	EN 12016: 2013
KN 301 489-01	EN 301 489-01 v2.1.1
KN 301 489-02	EN 301 489-02 v1.3.1
KN 301 489-03	EN 301 489-03 v1.6.1
KN 301 489-05	EN 301 489-05 v1.3.1
KN 301 489-06	EN 301 489-06 v1.4.1
KN 301 489-09	EN 301 489-09 v1.4.1
KN 301 489-13	EN 301 489-13 v1.2.1
KN 301 489-15	EN 301 489-15 v2.1.1

STANDARD	DESCRIPTION OF STANDARD
KOREA, REPUBLIC OF (CONT'D)	
KN 301 489-17	EN 301 489-17 v2.1.1
KN 301 489-18	EN 301 489-18 v1.3.1
KN 301 489-20	EN 301 489-20 v1.2.1
KN 301 489-27	EN 301 489-27 v2.1.1
KN 301 489-32	EN 301 489-32 v1.1.1
KN 301 489-50	EN 301 489-50 v2.2.0
KN 60601-1-2	IEC 60601-1-2: 2004
KN 60945/60533	IEC 60945: 2002; IEC 60533: 1999
KN 61000-6-1	IEC 61000-6-1: 2016
KN 61000-6-2	IEC 61000-6-2: 2016
KN 61000-6-3	IEC 61000-6-3: 2011
KN 61000-6-4	IEC 61000-6-4: 2011
KN 61547	IEC 61547: 2009
KN 62040-2	IEC 62040-2: 2005
MSIT No. 1: Jul 26, 2017	Regulations on Radio Equipment [Excluding SAR]
MSIT Public Notification 2018-90: Dec 27, 2018	Unlicensed Radio Equipment Established without Notice [Excluding SAR]
RRA Public Notification 2016-20, Sep 27, 2016	Technical Requirements of Radio Wave Application
KS X 3123	Conformity Assessment Procedure of Radio Equipment

STANDARD	DESCRIPTION OF STANDARD
SAE	
SAE J1113-2:2004	Electromagnetic compatibility measurement procedures and limits for vehicle components (except aircraft) - conducted immunity, (15 Hz to 250 kHz) - all leads
SAE J1113-4 SAE J1113-4:2014 SAE J1113-4:2004	Immunity to radiated electromagnetic fields - Bulk current injection (BCI) method
SAE J1113-11 SAE J1113-11:2018 SAE J1113-11:2017 SAE J1113-11:2012 SAE J1113-11:2007	Immunity to conducted transients on power leads
SAE J1113-12 SAE J1113-12:2017 SAE J1113-12:2006	Electrical interference by conduction and coupling - capacitive and inductive coupling via lines other than supply lines
SAE J1113-13 SAE J1113-13:2015 SAE J1113-13:2011 SAE J1113-13:2004	Electromagnetic compatibility measurement procedure for vehicle components - part 13 immunity to electrostatic discharge
SAE J1113-21:2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay
SAE J1113-22:2003	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields
SAE J1113-26 SAE J1113-26:2014 SAE J1113-26:2013 SAE J1113-26:2006	Electromagnetic compatibility measurement procedure for vehicle components - Part 26 - immunity to AC power lines electric fields
SAE J1113-41:2000	Limits and methods of measurement of radio disturbance characteristics of components and modules for the protection of receivers used on board vehicles
SAE J1455 SAE J1455:2017 SAE J1455:2012	Joint SAE/TMC recommended environmental practices for electronic equipment design (heavy-duty trucks) [Sections: 4.13.1, 4.13.2 and 4.13.3]
SAE J1752-3	(R) Measurement of radiated emissions from integrated circuits - TEM/wideband TEM (GTEM) cell method; TEM cell (150 kHz to 1 GHz), wideband TEM cell (150 kHz to 8 GHz) [up to 3GHz]

STANDARD	DESCRIPTION OF STANDARD
TAIWAN / CHINESE TAIPEI	
CNS 13306	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 - Radio disturbance and immunity measuring apparatus
CNS 13438 (up to 6 GHz)	Limits and methods of measurement of radio interference characteristics of information technology equipment (ITE) [table top equipment only for testing above 1 GHz]
CNS 13439	Limits and methods of measurement of radio interference characteristics of sound and television broadcast receiver and associated equipment
CNS 13803	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment
CNS 14757-2	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
LP0002	Low-power Radio-frequency Devices Technical Regulations [Excluding SAR]
UNITED STATES	
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 11	Emergency alert system (EAS)
47 CFR PART 15	Radio frequency devices
47 CFR PART 18	Industrial, scientific and medical equipment
47 CFR PART 20	Commercial mobile services
47 CFR PART 22	Public mobile services
47 CFR PART 24	Personal communications services
47 CFR PART 25	Satellite communications
47 CFR PART 27	Miscellaneous wireless communication services
47 CFR PART 30	Upper microwave flexible use service
47 CFR PART 73	Radio broadcast services
47 CFR PART 74	Experimental radio, auxiliary, and special broadcast and other program distributional services
47 CFR PART 80	Stations in the maritime services
47 CFR PART 87	Aviation services
47 CFR PART 90	Private land mobile radio services
47 CFR PART 95	Personal radio services
47 CFR PART 96	Citizens broadband radio services
47 CFR PART 97	Amateur radio services
47 CFR PART 101	Fixed microwave services
ANSI C63.4 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
ANSI C63.10 ANSI C63.10-2013	American national standard for testing unlicensed wireless devices
ANSI C63.17 ANSI C63.17-2013	American national standard for methods of measurement of the electromagnetic and operational compatibility of unlicensed personal communications services (UPCS) Devices
ANSI C63.26 ANSI C63.26-2015	Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

STANDARD	DESCRIPTION OF STANDARD
UNITED STATES (CONT'D)	
ANSI RESNA WC VOL.2	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]
ANSI/TIA 603E;	Land mobile FM or PM communications equipment measurement and performance standards
FCC MP-5:1986	Methods of measurements of radio noise emissions from industrial, scientific and medical equipment
FCC KDB 905462 D02 (v01)	U-NII with DFS Intentional Radiators
UL 2202	Standard for Safety, Electric Vehicle (EV) Charging System Equipment [36.2(c), 36.2(d)]
UL 2231-2	Standard for Safety, Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits [24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 24.10]
DO-160C	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22]
DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22, 25]
MIL-STD-461A/B/C, Using the methods of MIL-STD-462	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE01, CE02, CE03, CE04, CE05, CE06, CE07, RE01, RE02, RE03] [Susceptibility: CS01, CS02, CS03, CS04, CS05, CS06, CS07, CS08, CS09, CS10, CS11, CS12, RS01, RS02, RS03, RS06]
MIL-STD-461D Using the methods of MIL-STD-462D	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461E	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461F	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118, RS101, RS103]

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>VIETNAM</u>	
TCVN 7189	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
TCVN 7317	Information technology equipment - Immunity characteristics - Limits and methods of measurement
QCVN 118:2018/BTTTT	National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements

STANDARD	DESCRIPTION OF STANDARD
AUSTRALIA / NEW ZEALAND	
ACMA SRD:2014	ACMA Radiocommunications (Short Range Devices) Standard: 2014
ARPANSA RPS-3	Maximum Exposure Levels to Radiofrequency Fields - 3 kHz to 300 GHz [Excluding SAR]
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4295	Analogue speech (angle modulated) equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS 4768.1	Digital radio equipment operating in land mobile and fixed services bands in the frequency range (29.7 MHz to 1 GHz)
AS/NZS 61000-6-1	Electromagnetic Compatibility (EMC) Generic standard - Immunity for residential, commercial and light-industrial environments
AS/NZS 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments
AS/NZS 61000-6-3: 2012	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
AS/NZS 61000-6-4: 2012	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
AS/NZS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 14.1: 2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission [Excluding clicks]
AS/NZS CISPR 14.2	Electromagnetic compatibility - Requirements for household appliances electric tools and similar apparatus - Immunity
AS/NZS CISPR 25	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers [Excluding sections 5, 6.5 and 6.6]
AS/NZS CISPR 32: 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements
CANADA	
ICES 001	Industrial, Scientific and Medical (ISM) radio frequency generators
ICES 003	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES 004	Alternating current high voltage power systems
ICES 005	Radio frequency lighting devices
ICES 006	AC Wire Carrier Current Devices (Unintentional Radiators)
RSS-102	Evaluation procedure for mobile and portable radio transmitters with respect to health Canada's safety code 6 for exposure of humans to radio frequency fields [RF Exposure and Nerve Stimulation Only]

STANDARD	DESCRIPTION OF STANDARD
CANADA (CONT'D)	
RSS-111	Broadband public safety equipment operating in the band (4940 to 4990) MHz
RSS-112	Land mobile and fixed equipment operating in the band (1670 to 1675) MHz
RSS-117	Land and coast station transmitters using A1, A2, A3, A2H, or A3H emissions operating in the (200 to 535) kHz band
RSS-119	Land mobile and fixed radio transmitters and receivers, (27.41 to 960) MHz
RSS-123	Low power licensed radio communication devices
RSS-125	Land mobile and fixed radio transmitters and receivers, (1.705 to 50.0) MHz, primarily amplitude modulated
RSS-127	Air-Ground Equipment Operating in the Bands 849 to 851 MHz and (894 to 896) MHz
RSS-130	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands (698 to 756) MHz and (777 to 787) MHz
RSS-131	Zone enhancers for the land mobile service
RSS-132	800 MHz Cellular telephones employing new technologies
RSS-133	2 GHz Personal communication services
RSS-134	900 MHz Narrowband personal communications services
RSS-135	Digital scanner receivers
RSS-137	Location and monitoring service (902 to 928) MHz
RSS-139	Advanced wireless services equipment operating in the bands (1710 to 1755) MHz and (2110 to 2155) MHz
RSS-140	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS-141	Aeronautical radio communication equipment in the frequency band (117.975 to 137) MHz
RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands
RSS-170	Satellite mobile earth stations
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers operating in the (1,605 to 28,000) kHz band
RSS-182	Maritime radio transmitters and receivers in the band (156 to 162.5) MHz
RSS-191	Local multipoint communication systems in the 28 GHz band, point-to-point and point-to-multipoint broadband communication systems in the 24 GHz and 38 GHz bands
RSS-192	Fixed wireless access equipment operating in the band (3450 to 3650) MHz
RSS-194	Fixed wireless access equipment operating in the band (953 to 960) MHz
RSS-195	Wireless communications service equipment operating in the bands (2305 to 2320) MHz and (2345 to 2360) MHz
RSS-196	Point-to-multipoint broadband equipment operating in the bands 512 to 608 MHz and 614 to 698 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS-197	Wireless broadband access equipment operating in the band (3650 to 3700) MHz
RSS-199	Broadband Radio Service (BRS) equipment operating in the band (2500 to 2690) MHz

STANDARD	DESCRIPTION OF STANDARD
CANADA (CONT'D)	
RSS-210	Low power license exempt radio communication devices (All frequency bands)
RSS-211	Level Probing Radar Equipment
RSS-213	2 GHz License exempt Personal Communications Service devices (PCS)
RSS-215	Analogue scanner receivers
RSS-216	Wireless Power Transfer Devices (Wireless Chargers)
RSS-220	Devices Using Ultra-Wideband (UWB) Technology
RSS-222	White Spaces Devices (WSDs)
RSS-236	General radio service equipment operating in the band (26.960 to 27.410) MHz
RSS-238	Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands
RSS-243	Active medical implant communications system devices in the (402 to 405) MHz band
RSS-244	Medical Devices Operating in the Band (413 to 457) MHz
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices
RSS-251	Field Disturbance Sensors in the Bands (46.7 to 46.9) GHz and (76 to 77) GHz
RSS-252	Intelligent Transportation Systems — Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)
RSS-287	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)
RSS-288	Global Maritime Distress and Safety System (GMDSS)
RSS-310	Low-power license exempt radio communication devices (All frequency bands) Category II equipment
RSS-GEN	General requirements and information for the certification of radio communication equipment
EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Emission
EN 12016 EN 12016: 2013 EN 12016: 2004+A1 EN 12016: 2004 EN 12016: 1998	Electromagnetic compatibility - Product family standard For lifts, escalators and passenger conveyors - Immunity
EN 12184	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements And Test Methods [Section 9.8 Only]
EN 13309	Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply
EN 13763-26	Explosives for civil uses - Detonators and relays - Part 26
EN ISO 14982	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria
EN 15194 EN 15194:2009+A1	Cycles - Electrically power assisted cycles - EPAC Bicycles

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 50065-1	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 1: General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1, 2, 3	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 2: Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 1485) kHz
EN 50083-2	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment
EN 50121-1	Railway applications - Electromagnetic compatibility - Part 1: General
EN 50121-3-2	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signaling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test (900 MHz and 5 MHz Keyed Carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1: Emissions
EN 50370-2	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2: Immunity
EN 50498	Electromagnetic Compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles
EN 55011	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission [Excluding clicks]
EN 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 55103-1:2012	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity
EN 60601-1-2 EN 60601-1-2:2007	Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment - Part 2-2: Particular requirements for the safety of high frequency surgical equipment [EMC Sections Only]
EN 60601-2-4	Medical electrical equipment - Part 2-4: Particular requirements for the safety of cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
EN 60601-2-12:2006	Medical electrical equipment - Part 2-12: Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24: Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC Sections Only]
EN 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the safety, including essential performance, of invasive blood pressure monitoring equipment [EMC sections only]
EN 60601-2-37	Medical electrical equipment - Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems [EMC sections only]
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC Sections Only]
EN ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
EN 60730-1 EN 60730-1:2011	Automatic electrical controls for household and similar use - Part 1: General requirements [EMC Sections Only]
EN 60730-2- 9	Automatic electrical controls for household and similar use - Part 2: Particular requirements
EN 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
EN 60974-10:2015	Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4-8 - Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
EN 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards - Immunity for industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections only]
EN 61204-3:2001	Low voltage power supplies, DC output - Part 3: Electromagnetic Compatibility (EMC)

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
EN 61326-2-1 EN 61326-2-2 EN 61326-2-3 EN 61326-2-5 EN 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria
EN 61326-3-1 EN 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 61850-3	Communication Networks and Systems in Substations [Excluding 5.7.1.3 and 5.7.3]
EN 62040-2	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
EN 62061	Safety of machinery – functional safety of safety related electrical, electronic & programmable control systems [section 6.4.3, ref Annex E]
EN 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz to 300GHz)
EN 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech
EN 300 113	Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 113-2	Electromagnetic compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 219	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver
EN 300 220-2	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
EN 300 220-3-1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 300 220-3-2	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: 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
EN 300 220-4	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Metering devices operating in designated band 169,400 MHz to 169,475 MHz
EN 300 224	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz
EN 300 328	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum
EN 300 330	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
EN 300 330-2	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)
EN 300 386	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements
EN 300 422-1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers
EN 300 422-2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers
EN 300 422-3	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers
EN 300 422-4	Wireless Microphones; Audio PMSE up to 3 GHz; Part 4: Assistive Listening Devices including personal sound amplifiers and inductive systems up to 3 GHz
EN 300 433	Citizens' Band (CB) radio equipment
EN 300 440	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
EN 300 440-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency range
EN 300 454-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links
EN 301 357	Cordless audio devices in the range 25 MHz to 2 000 MHz
EN 300 487	Satellite Earth Stations and Systems (SES); Harmonised Standard for Receive-Only Mobile Earth Stations (ROMES) providing data communications operating in the 1,5 GHz frequency band
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-2 thru 35, 50, 53	Electromagnetic Compatibility (EMC) standard for radio equipment and services Parts 2 and up, specific conditions
EN 301 502	Global System for Mobile communications (GSM); Base Station and Repeater equipment
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital wireless microphones operating in the CEPT harmonized band (1785 to 1800) MHz
EN 301 893	Wireless Access Systems; 5Hz Radio Local Area Network (RLAN)
EN 301 908-1 thru 22	-IMT Cellular Networks; Base Stations (BS) and Repeaters [-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20, -22]

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 302 064-2	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band
EN 302 065-1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications
EN 302 065-2	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking
EN 302 066	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD); Ultra Low Power Active Medical Implants (ULP-AMI) and accessories (ULP-AMI-P) operating in the frequency range (9 to 315) kHz
EN 302 208	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W
EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: Digital Multipoint Radio Equipment
EN 302 326-3	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3: Multipoint Radio Antennas
EN 302 502	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems
EN 302 645	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Global Navigation Satellite Systems (GNSS) Repeaters
EN 303 413	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
EN 303 417	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
EN 303 454	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz
EU DIRECTIVES	
EU Regulation No 167/2013 EU Regulation No 2015/208 EU Regulation 2018/829/EU	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles
EU Directive 2007/46/EC	EU Directive establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles
EU Regulation No 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles
EU Regulation No 661/2009	EU Regulation concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>UNITED NATIONS</u>	
UN/ECE Addendum 9 Regulation 10 Rev 5 +A1 Rev 5 Rev 4+A1+A2+A3 Rev 4+A1+A2 Rev 4+A1 Rev 4	Concerning the Adoption of Uniform Technical Prescription for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition and Approvals Granted on the Basis of these Prescriptions. Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility
<u>IMDA SINGAPORE</u>	
IMDA TS AR	Technical specification for Amateur Radio Equipment
IMDA TS CBS	Technical specification for Cellular Base Station and Repeater System
IMDA TS CT-CTS	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [Excluding dect and phs]
IMDA TS GMPCS	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals
IMDA TS LMR	Technical specification for Land Mobile Radio Equipment
IMDA TS SRD	Technical specification for Short Range Devices (SRD)
IMDA TS UWB	Technical specification for Ultra-Wideband (UWB) Devices
IMDA TS WBA	Technical specification for Wireless Broadband Access (WBA) equipment
<u>INTERNATIONAL STANDARDS</u>	
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission [Excluding clicks]
CISPR 14-2	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2: Immunity-Product Family Standard
CISPR 15	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 24	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 25 CISPR25:2016 CISPR25:2008 CISPR25:2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement [2016: excluding sections 5, 6.6 and 6.7] [2008: excluding sections 5, 6.5 and 6.6] [2002: excluding sections 5 and 6.5]
CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Immunity requirements

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2 IEC 60601-1-2:2007	Medical electrical equipment - Part 1: General requirements for safety 2 - Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2: Particular requirements for the safety of high frequency surgical equipment [EMC Sections Only]
IEC 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
IEC 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
IEC 60601-2-12:2001	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
IEC 60601-2-22	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC Sections Only]
IEC 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [EMC Sections Only]
IEC 60601-2-37	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [EMC Sections Only]
IEC 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the safety, including essential performance, of ambulatory electrocardiographic systems. [EMC Sections Only]
IEC 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC Sections Only]
IEC 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
IEC 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments
IEC 61000-6-3	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
IEC 61326-2-1 IEC 61326-2-2 IEC 61326-2-3 IEC 61326-2-5 IEC 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Parts 2-x: Particular requirements - Test configurations, operational conditions and performance criteria
IEC 61326-3-1 IEC 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61850-3	Communication Networks and Systems in Substations [Excluding sections 5.7.1.3 and 5.7.3]
IEC 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
IEC 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [EMC section 6.4.3, ref Annex E]
IEC 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
IEEE 1613	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations
ISO	
ISO 7637-1:1990	Road vehicles - Electrical disturbance by conduction and coupling - Part 1 Passenger cars and light commercial vehicles with nominal 12 V supply voltage - Electrical transient conduction along supply lines only
ISO 7637-2:1990	Road vehicles - Electrical disturbance by conduction and coupling - Part 2 Commercial vehicles with nominal 24 V supply voltage - Electrical transient conduction along supply lines only
ISO 7637-2 ISO 7637-2:2011 ISO 7637-2:2004+A1 ISO 7637-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only
ISO 7637-3 ISO 7637-3:2016 ISO 7637-3:2007	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 ISO 10605:2008+A1 ISO 10605:2008 ISO 10605:2001	Road vehicles - Test methods for electrical disturbances from electrostatic discharge
ISO 11452-2 ISO 11452-2:2019 ISO 11452-2:2004	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2: Absorber-lined shielded enclosure
ISO 11452-4 ISO 11452-4:2011	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods (BCI method only)
ISO 11452-4:2005 ISO 11452-4:2001	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Bulk current injection (BCI)
ISO 11452-7:2003 ISO 11452-7:2003+A1	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 7: Direct radio frequency (RF) power injection
ISO 11452-8 ISO 11452-8:2015 ISO 11452-8:2007	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8: Immunity to magnetic fields
ISO 11452-10 ISO 11452-10:2009	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 10 Immunity to conducted disturbances in the extended audio frequency range

STANDARD	DESCRIPTION OF STANDARD
ISO (CONT'D)	
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
ISO 13766-2:2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety
ISO 13766:2006	Earth-moving machinery - Electromagnetic compatibility
ISO 14982:1998	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria
ISO 16750-2	Road vehicles -- Environmental conditions and testing for electrical and electronic equipment -- Part 2: Electrical loads [Excluding 4.6.2, 4.11, 4.12]
ISO 22200 ISO 22200:2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity
ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
KOREA, REPUBLIC OF	
KN 14-2	CISPR 14-2: 2015
KN 35	CISPR 35: 2012
KN 12016	EN 12016: 2013
KN 301 489-01	EN 301 489-01 v2.1.1 [Excluding 8.2]
KN 301 489-02	EN 301 489-02 v1.3.1 [Excluding 7.1]
KN 301 489-03	EN 301 489-03 v1.6.1 [Excluding 7.1]
KN 301 489-05	EN 301 489-05 v1.3.1 [Excluding 7.1]
KN 301 489-06	EN 301 489-06 v1.4.1 [Excluding 7.1]
KN 301 489-09	EN 301 489-09 v1.4.1 [Excluding 7.1]
KN 301 489-13	EN 301 489-13 v1.2.1 [Excluding 7.1]
KN 301 489-15	EN 301 489-15 v2.1.1 [Excluding 7.1]
KN 301 489-17	EN 301 489-17 v2.1.1 [Excluding 7.1]
KN 301 489-18	EN 301 489-18 v1.3.1 [Excluding 7.1]
KN 301 489-20	EN 301 489-20 v1.2.1 [Excluding 7.1]
KN 301 489-27	EN 301 489-27 v2.1.1 [Excluding 7.1]
KN 301 489-32	EN 301 489-32 v1.1.1 [Excluding 7.1]
KN 301 489-50	EN 301 489-50 v2.2.0 [Excluding 7.1]
KN 60601-1-2	IEC 60601-1-2: 2004 [Excluding 36.201]
KN 60945/60533	IEC 60945: 2002; IEC 60533: 1999 [Excluding 4]
KN 61000-6-1	IEC 61000-6-1: 2016
KN 61000-6-2	IEC 61000-6-2: 2016
KN 61547	IEC 61547: 2009
KN 62040-2	IEC 62040-2: 2005 [Excluding 6.5]

STANDARD	DESCRIPTION OF STANDARD
JAPAN	
VCCI V-3 (up to 6 GHz)	Technical Requirements [Note: 5 meter or less test distance]
VCCI-CISPR 32:2016	Electromagnetic compatibility of multimedia equipment – Emission Requirements
SAE	
SAE J1113-2:2004	Electromagnetic compatibility measurement procedures and limits for vehicle components (except aircraft) - conducted immunity, (15 Hz to 250 kHz) - all leads
SAE J1113-4 SAE J1113-4:2014 SAE J1113-4:2004	Immunity to radiated electromagnetic fields - Bulk current injection (BCI) method
SAE J1113-11 SAE J1113-11:2018 SAE J1113-11:2017 SAE J1113-11:2012 SAE J1113-11:2007	Immunity to conducted transients on power leads
SAE J1113-12 SAE J1113-12:2017 SAE J1113-12:2006	Electrical interference by conduction and coupling - capacitive and inductive coupling via lines other than supply lines
SAE J1113-13 SAE J1113-13:2015 SAE J1113-13:2011 SAE J1113-13:2004	Electromagnetic compatibility measurement procedure for vehicle components - part 13 immunity to electrostatic discharge
SAE J1113-21:2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay
SAE J1113-22:2003	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields
SAE J1113-26 SAE J1113-26:2014 SAE J1113-26:2013 SAE J1113-26:2006	Electromagnetic compatibility measurement procedure for vehicle components - Part 26 - immunity to AC power lines electric fields
SAE J1113-41:2000	Limits and methods of measurement of radio disturbance characteristics of components and modules for the protection of receivers used on board vehicles
SAE J1455 SAE J1455:2017 SAE J1455:2012	Joint SAE/TMC recommended environmental practices for electronic equipment design (heavy-duty trucks) [Sections: 4.13.1, 4.13.2 and 4.13.3]
SAE J1752-3	(R) Measurement of radiated emissions from integrated circuits - TEM/wideband TEM (GTEM) cell method; TEM cell (150 kHz to 1 GHz), wideband TEM cell (150 kHz to 8 GHz) [up to 3GHz]

STANDARD	DESCRIPTION OF STANDARD
TAIWAN / CHINESE TAIPEI	
LP0002	Low-power Radio-frequency Devices Technical Regulations [Excluding SAR]
UNITED STATES	
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 11	Emergency alert system (EAS)
47 CFR PART 15	Radio frequency devices
47 CFR PART 18	Industrial, scientific and medical equipment
47 CFR PART 20	Commercial mobile services [Excluding HAC]
47 CFR PART 22	Public mobile services
47 CFR PART 24	Personal communications services
47 CFR PART 25	Satellite communications
47 CFR PART 27	Miscellaneous wireless communication services
47 CFR PART 30	Upper microwave flexible use service
47 CFR PART 73	Radio broadcast services
47 CFR PART 74	Experimental radio, auxiliary, and special broadcast and other program distributional services
47 CFR PART 80	Stations in the maritime services
47 CFR PART 87	Aviation services
47 CFR PART 90	Private land mobile radio services
47 CFR PART 95	Personal radio services
47 CFR PART 96	Citizens broadband radio services
47 CFR PART 97	Amateur radio services
47 CFR PART 101	Fixed microwave services
ANSI C63.4 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)
ANSI C63.10 ANSI C63.10-2013	American national standard for testing unlicensed wireless devices
ANSI C63.17 ANSI C63.17-2013	American National Standard for Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices
ANSI C63.26 ANSI C63.26-2015	Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

STANDARD	DESCRIPTION OF STANDARD
UNITED STATES (CONT'D)	
ANSI RESNA WC VOL.2	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]
ANSI/TIA 603E; TIA-102.CAAA-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
FCC MP-5:1986	Methods of Measurements of Radio Noise Emissions from Industrial, Scientific and Medical equipment
FCC KDB 905462 D02 (v01)	U-NII with DFS Intentional Radiators
UL 2202	Standard for Safety, Electric Vehicle (EV) Charging System Equipment [36.2(c), 36.2(d)]
UL 2231-2	Standard for Safety, Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits [24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 24.10]
DO-160C	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22]
DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22, 25]
MIL-STD-461A/B/C, Using the methods of MIL-STD-462	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE01, CE02, CE03, CE04, CE05, CE06, CE07, RE01, RE02, RE03] [Susceptibility: CS01, CS02, CS03, CS04, CS05, CS06, CS07, CS08, CS09, CS10, CS11, CS12, RS01, RS02, RS03, RS06]
MIL-STD-461D Using the methods of MIL-STD-462D	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461E	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461F	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118, RS101, RS103]

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>VIETNAM</u>	
TCVN 7189	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
TCVN 7317	Information technology equipment - Immunity characteristics - Limits and methods of measurement
QCVN 118:2018/BTTTT	National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements

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<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>AUSTRALIA / NEW ZEALAND</u>	
ACMA SRD:2014	ACMA Radiocommunications (Short Range Devices) Standard: 2014
ARPANSA RPS-3	Maximum Exposure Levels to Radiofrequency Fields — 3 kHz to 300 GHz [Excluding SAR]
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4295	Analogue speech (angle modulated) equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS 4768.1	Digital radio equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 14.1: 2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission [Excluding clicks]
AS/NZS CISPR 14.2	Electromagnetic compatibility - Requirements for household appliances electric tools and similar apparatus - Immunity
AS/NZS CISPR 32: 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements
AS/NZS 61000-6-1	Electromagnetic Compatibility (EMC) Generic standard - Immunity for residential, commercial and light-industrial environments
AS/NZS 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments
AS/NZS 61000-6-3: 2012	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
AS/NZS 61000-6-4: 2012	Electromagnetic Compatibility (EMC) Emission standard for industrial environments

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>CANADA</u>	
ICES 001	Industrial, Scientific and Medical (ISM) radio frequency generators
ICES 003	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES 004	Alternating current high voltage power systems
ICES 005	Radio frequency lighting devices
ICES 006	AC wire carrier current devices (unintentional radiators)
RSS-102	Evaluation procedure for mobile and portable radio transmitters with respect to health Canada's safety code 6 for exposure of humans to radio frequency fields [RF Exposure and Nerve Stimulation Only]
RSS-111	Broadband public safety equipment operating in the band (4940 to 4990) MHz
RSS-112	Land mobile and fixed equipment operating in the band (1670 to 1675) MHz
RSS-117	Land and coast station transmitters using A1, A2, A3, A2H, or A3H emissions operating in the (200 to 535) kHz band
RSS-119	Land mobile and fixed radio transmitters and receivers (27.41 to 960) MHz
RSS-123	Low power licensed radio communication devices
RSS-125	Land mobile and fixed radio transmitters and receivers (1.705 to 50.0) MHz, primarily amplitude modulated
RSS-127	Air-Ground equipment operating in the bands (849 to 851) MHz and (894 to 896) MHz
RSS-130	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands (698 to 756) MHz and (777 to 787) MHz
RSS-131	Zone enhancers for the land mobile service
RSS-132	800 MHz Cellular telephones employing new technologies
RSS-133	2 GHz Personal communication services
RSS-134	900 MHz Narrowband personal communications services
RSS-135	Digital scanner receivers
RSS-137	Location and monitoring service (902 to 928) MHz
RSS-139	Advanced wireless services equipment operating in the bands (1710 to 1755) MHz and (2110 to 2155) MHz
RSS-140	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS-141	Aeronautical radio communication equipment in the frequency band (117.975 to 137) MHz
RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands
RSS-170	Satellite mobile earth stations
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers operating in the (1605 to 28000) kHz band
RSS-182	Maritime radio transmitters and receivers in the band (156 to 162.5) MHz
RSS-191	Local multipoint communication systems in the 28 GHz band, point-to-point and point-to-multipoint broadband communication systems in the (24 to 38) GHz bands

STANDARD	DESCRIPTION OF STANDARD
CANADA (CONT'D)	
RSS-192	Fixed wireless access equipment operating in the band (3450 to 3650) MHz
RSS-194	Fixed wireless access equipment operating in the band (953 to 960) MHz
RSS-195	Wireless communications service equipment operating in the bands (2305 to 2320) MHz and (2345 to 2360) MHz
RSS-196	Point-to-multipoint broadband equipment operating in the bands (512 to 608) MHz and (614 to 698) MHz for rural remote broadband systems (RRBS) (TV Channels 21 to 51)
RSS-197	Wireless broadband access equipment operating in the band (3650 to 3700) MHz
RSS-199	Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz
RSS-210	Low power license exempt radio communication devices (All frequency bands)
RSS-211	Level Probing Radar Equipment
RSS-213	2 GHz License exempt personal communications service devices (PCS)
RSS-215	Analogue scanner receivers
RSS-216	Wireless Power Transfer Devices (Wireless Chargers)
RSS-220	Devices using ultra-wideband (UWB) technology
RSS-222	White Spaces Devices (WSDs)
RSS-236	General radio service equipment operating in the band (26.960 to 27.410) MHz
RSS-238	Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands
RSS-243	Active medical implant communications system devices in the band (402 to 405) MHz
RSS-244	Medical Devices Operating in the Band 413-457 MHz
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices
RSS-251	Field disturbance sensors in the bands 46.7-46.9 GHz and 76-77 GHz
RSS-252	Intelligent Transportation Systems — Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)
RSS-287	Emergency position indicating radio beacons (EPIRB), emergency locator transmitters (ELT), personal locator beacons (PLB), and maritime survivor locator devices (MSLD)
RSS-288	Global maritime distress and safety system (GMDSS)
RSS-310	Low-power license exempt radio communication devices (all frequency bands) category II equipment
RSS-GEN	General requirements and information for the certification of radio communication equipment

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - emission
EN 12016 EN 12016: 2013 EN 12016: 2004+A1 EN 12016: 2004 EN 12016: 1998	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - immunity
EN 12184	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 9.8 Only]
EN 13763-26	Explosives for civil uses - Detonators and relays - Part 26
EN 50065-1	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 1 General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1, 2, 3	Specification for signaling on low-voltage electrical installations in the frequency range (3 kHz to 148.5) kHz - Part 2 Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 1485) kHz
EN 50083-2	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment
EN 50121-1	Railway applications - Electromagnetic compatibility - Part 1 General
EN 50121-3-2	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signalling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test (900MHz, 5MHz Keyed Carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.
EN 50370-2	Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity
EN 55011	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [Excluding clicks]
EN 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 55103-1:2012	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity
EN 60601-1-2 EN 60601-1-2:2007	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [EMC sections only]
EN 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2.10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
EN 60601-2-12:2006	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2 Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC sections only]
EN 60601-2-34	Medical electrical equipment - Part 2-34 Particular requirements for the safety, including essential performance, of invasive blood pressure monitoring equipment [EMC sections only]
EN 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems [EMC sections only]
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC sections only]
EN ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
EN 60730-1 EN 60730-1:2011	Automatic electrical controls for household and similar use - Part 1 General requirements [EMC Sections Only]
EN 60730-2- 9	Automatic electrical controls for household and similar use - Part 2 Particular requirements
EN 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 60974-10:2015	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC) requirements
EN 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
EN 61000-4-13	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections only]
EN 61204-3:2001	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
EN 61326-2-1 EN 61326-2-2 EN 61326-2-3 EN 61326-2-5 EN 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-x Particular requirements - Test configurations, operational conditions and performance criteria
EN 61326-3-1 EN 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
EN 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [section 6.4.3, ref Annex E]
EN 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
EN 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech
EN 300 113	Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 113-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 219	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver
EN 300 220-2	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
EN 300 220-3-1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)
EN 300 220-3-2	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: 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

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 300 220-4	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Metering devices operating in designated band 169,400 MHz to 169,475 MHz
EN 300 224	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz
EN 300 328	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum
EN 300 330	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
EN 300 330-2	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
EN 300 386	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements
EN 300 422-1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers
EN 300 422-2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers
EN 300 422-3	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers
EN 300 422-4	Wireless Microphones; Audio PMSE up to 3 GHz; Part 4: Assistive Listening Devices including personal sound amplifiers and inductive systems up to 3 GHz
EN 300 433	Citizens' Band (CB) radio equipment
EN 300 440	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
EN 300 440-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency
EN 300 454-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links
EN 301 357	Cordless audio devices in the range 25 MHz to 2 000 MHz
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-2 thru 35, 50, 53	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Parts 2 and up, specific conditions
EN 301 502	Global System for Mobile communications (GSM); Base Station and Repeater equipment
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital wireless microphones operating in the CEPT harmonized band (1785 to 1800) MHz
EN 301 893	Wireless Access Systems; 5Hz Radio Local Area Network (RLAN)
EN 301 908-1 thru 22	-IMT Cellular Networks; Base Stations (BS) and Repeaters [-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20, -22]
EN 302 064-2	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>EUROPEAN UNION (CONT'D)</u>	
EN 302 065-1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications
EN 302 065-2	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking
EN 302 066	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD); Ultra Low Power Active Medical Implants (ULP-AMI) and accessories (ULP-AMI-P) operating in the frequency range 9 kHz to 315 kHz
EN 302 208	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W
EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: Digital Multipoint Radio Equipment
EN 302 326-3	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3: Multipoint Radio Antennas
EN 302 502	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems
EN 302 645	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short range devices; global navigation satellite systems (GNSS) repeaters
EN 303 413	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
EN 303 417	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
EN 303 454	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz
<u>IMDA SINGAPORE</u>	
IMDA TS AR	Technical specification for Amateur Radio Equipment
IMDA TS CBS	Technical specification for Cellular Base Station and Repeater System
IMDA TS CT-CTS	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [Excluding dect and phs]
IMDA TS GMPCS	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals
IMDA TS LMR	Technical specification for Land Mobile Radio Equipment
IMDA TS SRD	Technical specification for Short Range Devices (SRD)
IMDA TS UWB	Technical specification for Ultra-Wideband (UWB) Devices
IMDA TS WBA	Technical specification for Wireless Broadband Access (WBA) equipment

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>INTERNATIONAL</u>	
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [Excluding clicks]
CISPR 14-2	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity-Product Family Standard
CISPR 15	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 24	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Immunity requirements
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2 IEC 60601-1-2:2007	Medical electrical equipment - Part 1 General requirements for safety 2 - Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [EMC sections only]
IEC 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
IEC 60601-2-10	Medical electrical equipment - Part 2.10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
IEC 60601-2-12:2001	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
IEC 60601-2-22	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC sections only]
IEC 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [EMC sections only]
IEC 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
IEC 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the safety, including essential performance, of ambulatory electrocardiographic systems [EMC sections only]

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC sections only]
IEC 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
IEC 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measurement techniques - Harmonics and interharmonics including mains signaling at A.C. power port, low frequency immunity tests
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments
IEC 61000-6-3	Electromagnetic capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
IEC 61326-2-1 IEC 61326-2-2 IEC 61326-2-3 IEC 61326-2-5 IEC 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-x Particular requirements - Test configurations, operational conditions and performance criteria
IEC 61326-3-1 IEC 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
IEC 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems (note: only capable of performing EMC testing for section 6.4.3, ref Annex E)
IEC 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
IEC 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
ISO	
ISO 22200 ISO 22200:2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity
ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
JAPAN	
VCCI V-3 (up to 6 GHz)	Technical Requirements
VCCI-CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission Requirements
KOREA, REPUBLIC OF	
KN 11	CISPR 11: 2015
KN 14-1	CISPR 14-1: 2016 [Excluding clicks]
KN 14-2	CISPR 14-2: 2015
KN 15	CISPR 15: 2018
KN 17	Test Methods of radio disturbance for residential wireless power-transmission equipment [Excluding clicks]

STANDARD	DESCRIPTION OF STANDARD
KOREA, REPUBLIC OF (CONT'D)	
KN 32	CISPR 32: 2012
KN 35	CISPR 35: 2012
KN 12015	EN 12015: 2004
KN 12016	EN 12016: 2013
KN 301 489-01	EN 301 489-01 v2.1.1
KN 301 489-02	EN 301 489-02 v1.3.1
KN 301 489-03	EN 301 489-03 v1.6.1
KN 301 489-05	EN 301 489-05 v1.3.1
KN 301 489-06	EN 301 489-06 v1.4.1
KN 301 489-09	EN 301 489-09 v1.4.1
KN 301 489-13	EN 301 489-13 v1.2.1
KN 301 489-15	EN 301 489-15 v2.1.1
KN 301 489-17	EN 301 489-17 v2.1.1
KN 301 489-18	EN 301 489-18 v1.3.1
KN 301 489-20	EN 301 489-20 v1.2.1
KN 301 489-27	EN 301 489-27 v2.1.1
KN 301 489-32	EN 301 489-32 v1.1.1
KN 301 489-50	EN 301 489-50 v2.2.0
KN 60601-1-2	IEC 60601-1-2: 2004
KN 60945/60533	IEC 60945: 2002; IEC 60533: 1999
KN 61000-6-1	IEC 61000-6-1: 2016
KN 61000-6-2	IEC 61000-6-2: 2016
KN 61000-6-3	IEC 61000-6-3: 2011
KN 61000-6-4	IEC 61000-6-4: 2011
KN 61547	IEC 61547: 2009
KN 62040-2	IEC 62040-2: 2005
MSIT No. 1: Jul 26, 2017	Regulations on Radio Equipment [Excluding SAR]
MSIT Public Notification 2018-90: Dec 27, 2018	Unlicensed Radio Equipment Established without Notice [Excluding SAR]
RRA Public Notification 2016-20, Sep 27, 2016	Technical Requirements of Radio Wave Application
KS X 3123	Conformity Assessment Procedure of Radio Equipment
SAE	
SAE J1113-2:2004	Electromagnetic compatibility measurement procedures and limits for vehicle components (except aircraft) - conducted immunity, (15 Hz to 250 kHz) - all leads
SAE J1113-22:2003	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields
SAE J1752-3	(R) measurement of radiated emissions from integrated circuits - TEM/wideband TEM (GTEM) cell method; TEM cell 150 kHz to 1 GHz, wideband TEM cell 150 kHz to 8 GHz [up to 3GHz]

STANDARD	DESCRIPTION OF STANDARD
TAIWAN / CHINESE TAIPEI	
CNS 13306	Specification for radio disturbance and immunity measuring apparatus and methods Part 1 - Radio disturbance and immunity measuring apparatus.
CNS 13438 (up to 6 GHz)	Limits and methods of measurement of radio interference characteristics of information technology equipment (ITE)
CNS 13439	Limits and methods of measurement of radio interference characteristics of sound and television broadcast receiver and associated equipment.
CNS 13803	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.
CNS 14757-2	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements
LP0002	Low-power Radio-frequency Devices Technical Regulations [Excluding SAR]
UNITED STATES	
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 11	Emergency alert system (EAS)
47 CFR PART 15	Radio frequency devices
47 CFR PART 18	Industrial, scientific and medical equipment
47 CFR PART 20	Commercial mobile services [Excluding HAC]
47 CFR PART 22	Public mobile services
47 CFR PART 24	Personal communications services
47 CFR PART 25	Satellite communications
47 CFR PART 27	Miscellaneous wireless communication services
47 CFR PART 30	Upper microwave flexible use service
47 CFR PART 73	Radio broadcast services
47 CFR PART 74	Experimental radio, auxiliary, and special broadcast and other program distributional services
47 CFR PART 80	Stations in the maritime services
47 CFR PART 87	Aviation services
47 CFR PART 90	Private land mobile radio services
47 CFR PART 95	Personal radio services
47 CFR PART 96	Citizens broadband radio services
47 CFR PART 97	Amateur radio services
47 CFR PART 101	Fixed microwave services
ANSI C63.4 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
ANSI C63.10 ANSI C63.10-2013	American national standard for testing unlicensed wireless devices
ANSI C63.17 ANSI C63.17-2013	American national standard for methods of measurement of the electromagnetic and operational compatibility of unlicensed personal communications services (UPCS) devices

STANDARD	DESCRIPTION OF STANDARD
UNITED STATES (CONT'D)	
ANSI C63.26 ANSI C63.26-2015	Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI RESNA WC VOL.2	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]
ANSI/TIA 603E; TIA-102.CAAA-E	Land mobile FM or PM communications equipment measurement and performance standards
FCC MP-5:1986	Methods of measurements of radio noise emissions from industrial, scientific and Medical equipment
FCC KDB 905462 D02 (v01)	U-NII with DFS Intentional Radiators
DO-160C	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21]
DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 25]
MIL-STD-461A/B/C, Using the methods of MIL-STD-462	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE01, CE02, CE03, CE04, CE05, CE06, CE07, RE01, RE02, RE03] [Susceptibility: CS01, CS02, CS03, CS04, CS05, CS06, CS07, CS08, CS09, CS10, CS11, CS12, RS01, RS02, RS03, RS06]
MIL-STD-461D Using the methods of MIL-STD-462D	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461E	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461F	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS118, RS101, RS103]

STANDARD	DESCRIPTION OF STANDARD
VIETNAM	
TCVN 7189	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
TCVN 7317	Information technology equipment - Immunity characteristics - Limits and methods of measurement
QCVN 118:2018/BTTTT	National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements

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STANDARD	DESCRIPTION OF STANDARD
UNITED STATES	
DO-160C	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22]
DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, -21, 22, 25]
MIL-STD-461A/B/C, Using the methods of MIL-STD-462	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions tests sections: CE01, CE02, CE03, CE04, CE05, CE06, -CE07, RE01, RE02, -RE03] [Susceptibility tests: CS01, CS02, CS03, CS04, CS05, CS06, CS07, CS08, CS09, CS10, CS11, CS-12, RS01, RS02, RS-03, RS06]
MIL-STD-461D Using the methods of MIL-STD-462D	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions tests sections: CE101, CE102, CE106, RE101, RE102, RE-103] [Susceptibility tests: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461E	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions tests sections: CE101, CE102, CE106, RE101, RE102, RE-103] [Susceptibility tests: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461F	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions tests: CE101, CE102, CE106, RE101, RE102, -RE103] [Susceptibility tests: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118, RS101, RS103]

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STANDARD	DESCRIPTION OF STANDARD
AUSTRALIA / NEW ZEALAND	
ACMA SRD:2014	ACMA Radiocommunications (Short Range Devices) Standard: 2014
ARPANSA RPS-3	Maximum Exposure Levels to Radiofrequency Fields — 3 kHz to 300 GHz [Excluding SAR]
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4295	Analogue speech (angle modulated) equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS 4768.1	Digital radio equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz
AS/NZS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) Radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
AS/NZS CISPR 14.1: 2018	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Emission [Excluding clicks]
AS/NZS CISPR 14.2	Electromagnetic compatibility - Requirements for household appliances electric tools and similar apparatus - Immunity
AS/NZS CISPR 25	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers [Excluding sections 5, 6.5 and 6.6]
AS/NZS CISPR 32: 2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements
AS/NZS 61000-6-1	Electromagnetic Compatibility (EMC) Generic standard - Immunity for residential, commercial and light-industrial environments
AS/NZS 61000-6-2	Electromagnetic Compatibility (EMC) Generic standard - Immunity for industrial environments
AS/NZS 61000-6-3: 2012	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
AS/NZS 61000-6-4: 2012	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
CANADA	
ICES 001	Industrial, Scientific and Medical (ISM) radio frequency generators
ICES 003	Information Technology Equipment (ITE) - Limits and methods of measurement
ICES 004	Alternating current high voltage power systems
ICES 005	Radio frequency lighting devices
ICES 006	AC Wire Carrier Current Devices (Unintentional Radiators)
RSS-102	Evaluation procedure for mobile and portable radio transmitters with respect to health Canada's safety code 6 for exposure of humans to radio frequency fields [RF Exposure and Nerve Stimulation Only]
RSS-111	Broadband public safety equipment operating in the band (4940 to 4990) MHz
RSS-112	Land mobile and fixed equipment operating in the band (1670 to 1675) MHz

STANDARD	DESCRIPTION OF STANDARD
CANADA (CONT'D)	
RSS-117	Land and coast station transmitters using A1, A2, A3, A2H, or A3H emissions operating in the (200 to 535) kHz band
RSS-119	Land mobile and fixed radio transmitters and receivers (27.41 to 960) MHz
RSS-123	Low power licensed radio communication devices
RSS-125	Land mobile and fixed radio transmitters and receivers (1.705 to 50.0) MHz, primarily amplitude modulated
RSS-127	Air-Ground Equipment Operating in the Bands (849 to 851) MHz and (894 to 896) MHz
RSS-130	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands (698 to 756) MHz and (777 to 787) MHz
RSS-131	Zone enhancers for the land mobile service
RSS-132	800 MHz Cellular telephones employing new technologies
RSS-133	2 GHz Personal communication services
RSS-134	900 MHz Narrowband personal communications services
RSS-135	Digital scanner receivers
RSS-137	Location and monitoring service (902 to 928) MHz
RSS-139	Advanced wireless services equipment operating in the bands (1710 to 1755) MHz and (2110 to 2155) MHz
RSS-140	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS-141	Aeronautical radio communication equipment in the frequency band (117.975 to 137) MHz
RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands
RSS-170	Satellite mobile earth stations
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers operating in the (1,605 to 28,000) kHz band
RSS-182	Maritime Radio Transmitters and Receivers in the Band (156 to 162.5) MHz
RSS-191	Local multipoint communication systems in the 28 GHz band, point-to-point and point-to-multipoint broadband communication systems in the 24 GHz and 38 GHz bands
RSS-192	Fixed wireless access equipment operating in the band (3450 to 3650) MHz
RSS-194	Fixed wireless access equipment operating in the band (953 to 960) MHz
RSS-195	Wireless communications service equipment operating in the bands (2305 to 2320) MHz and (2345 to 2360) MHz
RSS-196	Point-to-Multipoint Broadband Equipment Operating in the Bands (512 to 608) MHz and (614 to 698) MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS-197	Wireless Broadband Access Equipment Operating in the Band (3650 to 3700) MHz
RSS-199	Broadband Radio Service (BRS) Equipment Operating in the Band (2500 to 2690) MHz

STANDARD	DESCRIPTION OF STANDARD
CANADA (CONT'D)	
RSS-210	Low power license exempt radio communication devices (All frequency bands)
RSS-211	Level Probing Radar Equipment
RSS-213	2 GHz License exempt Personal Communications Service devices (PCS)
RSS-215	Analogue scanner receivers
RSS-216	Wireless Power Transfer Devices (Wireless Chargers)
RSS-220	Devices Using Ultra-Wideband (UWB) Technology
RSS-222	White Spaces Devices (WSDs)
RSS-236	General Radio Service Equipment Operating in the Band (26.960 to 27.410) MHz
RSS-238	Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands
RSS-243	Active medical implant communications system devices in the (402 to 405) MHz band
RSS-244	Medical Devices Operating in the Band (413 to 457) MHz
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices
RSS-251	Field disturbance sensors in the bands (46.7 to 46.9) GHz and (76 to 77) GHz
RSS-252	Intelligent Transportation Systems — Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)
RSS-287	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD)
RSS-288	Global Maritime Distress and Safety System (GMDSS)
RSS-310	Low-power license exempt radio communication devices (All frequency bands) Category II equipment
RSS-GEN	General requirements and information for the certification of radio communication equipment
EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Emission
EN 12016 EN 12016: 2013 EN 12016: 2004+A1 EN 12016: 2004 EN 12016: 1998	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors - Immunity
EN 12184	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements And Test Methods [Section 9.8 Only]
EN 13309	Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply
EN 13763-26	Explosives for civil uses - Detonators and relays - Part 26
EN ISO 14982	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria
EN 15194 EN 15194:2009+A1	Cycles - Electrically power assisted cycles - EPAC Bicycles

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 50065-1	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 1 General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1, 2, 3	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 2 Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 1485) kHz
EN 50083-2	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment
EN 50121-1	Railway applications - Electromagnetic compatibility - Part 1 General
EN 50121-3-2	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - Apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signalling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test (900MHz and 5MHz Keyed Carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions
EN 50370-2	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity
EN 50498	Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles
EN 55011	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [Excluding clicks]
EN 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 55103-1:2012	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity
EN 60601-1-2 EN 60601-1-2:2007	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [EMC sections only]
EN 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2-10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
EN 60601-2-12:2006	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2-22 Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC sections only]
EN 60601-2-34	Medical electrical equipment - Part 2-34 Particular requirements for the safety, including essential performance, of invasive blood pressure monitoring equipment [EMC sections only]
EN 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems [EMC sections only]
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC sections only]
EN ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]
EN 60730-1 EN 60730-1:2011	Automatic electrical controls for household and similar use - Part 1 General requirements [EMC Sections Only]
EN 60730-2- 9	Automatic electrical controls for household and similar use - Part 2 Particular requirements
EN 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
EN 60974-10:2015	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC) requirements

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4-8 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
EN 61000-4-13	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
EN 61000-4-21	Electromagnetic compatibility (EMC). Testing and measurement techniques. Reverberation chamber test methods [Excluding sections 6.2, 6.3 and Annexes E, F, G, and H]
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards - Immunity for industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections only]

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 61204-3:2001	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
EN 61326-3-1 EN 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
EN 61326-2-1 EN 61326-2-2 EN 61326-2-3 EN 61326-2-5 EN 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-x Particular requirements - Test configurations, operational conditions and performance criteria
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 61850-3	Communication Networks and Systems in Substations [Excluding 5.7.1.3 and 5.7.3]
EN 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
EN 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [section 6.4.3, ref Annex E]
EN 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz to 300GHz)
EN 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN 300 086	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
EN 300 113	Land Mobile Service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 113-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Land mobile service - Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector
EN 300 219	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver
EN 300 220-2	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

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 300 220-3-1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)
EN 300 220-3-2	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: 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
EN 300 220-4	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Metering devices operating in designated band 169,400 MHz to 169,475 MHz
EN 300 224	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz
EN 300 328	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum
EN 300 330	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
EN 300 330-2	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)
EN 300 386	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements
EN 300 422-1	Wireless Microphones; Audio PMSE (up to 3) GHz; Part 1: Class A Receivers
EN 300 422-2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers
EN 300 422-3	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers
EN 300 422-4	Wireless Microphones; Audio PMSE up to 3 GHz; Part 4: Assistive Listening Devices including personal sound amplifiers and inductive systems up to 3 GHz
EN 300 433	Citizens' Band (CB) radio equipment
EN 300 440	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
EN 300 440-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short range devices - Radio equipment to be used in the (1 to 40) GHz frequency range
EN 300 454-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links
EN 301 357	Cordless audio devices in the range 25 MHz to 2 000 MHz
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-2 thru 35, 50, 53	Electromagnetic Compatibility (EMC) standard for radio equipment and services Parts 2 and up, specific conditions
EN 301 502	Global System for Mobile communications (GSM); Base Station and Repeater equipment

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION (CONT'D)	
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital wireless microphones operating in the CEPT harmonized band (1785 to 1800) MHz
EN 301 893	Wireless Access Systems; 5Hz Radio Local Area Network (RLAN)
EN 301 908-1 thru 22	-IMT Cellular Networks; Base Stations (BS) and Repeaters [-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20, -22]
EN 302 064-2	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band
EN 302 065-1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications
EN 302 065-2	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking
EN 302 066	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD); Ultra Low Power Active Medical Implants (ULP-AMI) and accessories (ULP-AMI-P) operating in the frequency range (9 to 315) kHz
EN 302 208	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W
EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: Digital Multipoint Radio Equipment
EN 302 326-3	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3: Multipoint Radio Antennas
EN 302 502	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems
EN 302 645	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Global Navigation Satellite Systems (GNSS) Repeaters
EN 303 413	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
EN 303 417	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
EN 303 454	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>EU DIRECTIVES</u>	
EU Regulation No 167/2013 EU Regulation No 2015/208 EU Regulation 2018/829/EU	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles
EU Directive 2007/46/EC	EU Directive establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles
EU Regulation No 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles
EU Regulation No 661/2009	EU Regulation concerning type-approval requirements for the general safety of motor vehicles, their trailers and systems, components and separate technical units intended therefor
<u>UNITED NATIONS</u>	
UN/ECE Addendum 9 Regulation 10 Rev 5+A1 Rev 5 Rev 4+A1+A2+A3 Rev 4+A1+A2 Rev 4+A1 Rev 4	Concerning the Adoption of Uniform Technical Prescription for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition and Approvals Granted on the Basis of these Prescriptions. Uniform Provisions Concerning the Approval of Vehicles with regard to Electromagnetic Compatibility
<u>IMDA SINGAPORE</u>	
IMDA TS AR	Technical specification for Amateur Radio Equipment
IMDA TS CBS	Technical specification for Cellular Base Station and Repeater System
IMDA TS CT-CTS	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [Excluding dect and phs]
IMDA TS GMPCS	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals
IMDA TS LMR	Technical specification for Land Mobile Radio Equipment
IMDA TS SRD	Technical specification for Short Range Devices (SRD)
IMDA TS UWB	Technical specification for Ultra-Wideband (UWB) Devices
IMDA TS WBA	Technical specification for Wireless Broadband Access (WBA) equipment

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL	
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [Excluding clicks]
CISPR 14-2	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity-Product Family Standard
CISPR 15	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 24	Information technology equipment - Immunity characteristics - Limits and methods of measurement
CISPR 25 CISPR25:2016 CISPR25:2008 CISPR25:2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement [2016: excluding sections 5, 6.6 and 6.7] [2008: excluding sections 5, 6.5 and 6.6] [2002: excluding sections 5 and 6.5]
CISPR 32	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Immunity requirements
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2 IEC 60601-1-2:2007	Medical electrical equipment - Part 1 General requirements for safety 2 - Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [EMC sections only]
IEC 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [EMC sections only]
IEC 60601-2-10	Medical electrical equipment - Part 2-10 Particular requirements for the safety of nerve and muscle stimulators [EMC sections only]
IEC 60601-2-12:2001	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [EMC sections only]
IEC 60601-2-22	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC sections only]
IEC 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment [EMC sections only]

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
IEC 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the safety, including essential performance, of ambulatory electrocardiographic systems [EMC sections only]
IEC 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [EMC sections only]
IEC 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
IEC 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
IEC 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 - Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-12	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests
IEC 61000-4-21	Electromagnetic compatibility (EMC). Testing and measurement techniques. Reverberation chamber test methods [Excluding sections 6.2, 6.3 and Annexes E, F, G, and H]

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL (CONT'D)	
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments
IEC 61000-6-3	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
IEC 61326-2-1 IEC 61326-2-2 IEC 61326-2-3 IEC 61326-2-5 IEC 61326-2-6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-x Particular requirements - Test configurations, operational conditions and performance criteria
IEC 61326-3-1 IEC 61326-3-2	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61850-3	Communication Networks and Systems in Substations [Excluding 5.7.1.3 and 5.7.3]
IEC 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
IEC 62061	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems (note: only capable of performing EMC testing for section 6.4.3, ref Annex E)
IEC 62233	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.
IEC 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
IEEE 1613	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations

STANDARD	DESCRIPTION OF STANDARD
ISO	
ISO 7637-2 ISO 7637-2:2011 ISO 7637-2:2004+A1 ISO 7637-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only [Except Pulse 5 calibration into 2 Ohms T _a meets 400ms ±80ms]
ISO 7637-3 ISO 7637-3:2016 ISO 7637-3:2007	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 ISO 10605:2008+A1 ISO 10605:2008 ISO 10605:2001	Road vehicles - Test methods for electrical disturbances from electrostatic discharge
ISO 11452-2 ISO 11452-2:2019 ISO 11452-2:2004	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2 Absorber-lined shielded enclosure
ISO 11452-4 ISO 11452-4:2011	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods (BCI method only)
ISO 11452-4:2005 ISO 11452-4:2001	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4 Bulk current injection (BCI)
ISO 11452-5	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Stripline
ISO 11452-7:2003 ISO 11452-7:2003+A1	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 7: Direct radio frequency (RF) power injection
ISO 11452-8 ISO 11452-8:2015 ISO 11452-8:2007	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8 Immunity to magnetic fields
ISO 11452-10 ISO 11452-10:2009	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 10 Immunity to conducted disturbances in the extended audio frequency range
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
ISO 13766-2:2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety
ISO 13766:2006	Earth-moving machinery - Electromagnetic compatibility
ISO 14982:1998	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria
ISO 16750-2	Road vehicles -- Environmental conditions and testing for electrical and electronic equipment -- Part 2: Electrical loads [Excluding 4.6.2, 4.11, 4.12] [4.6.4 calibration into 2 ohms T _d meets the No Load verification time]
ISO 22200 ISO 22200:2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity
ISO 80601-2-55	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [EMC sections only]

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>JAPAN</u>	
VCCI V-3 (up to 6 GHz)	Technical Requirements [Note: 5 meter or less test distance]
VCCI-CISPR 32: 2016	Electromagnetic compatibility of multimedia equipment - Emission Requirements
<u>SAE</u>	
SAE J1113-2:2004	Electromagnetic compatibility measurement procedures and limits for vehicle components (except aircraft) - conducted immunity (15 Hz to 250 kHz) - all leads
SAE J1113-4 SAE J1113-4:2014 SAE J1113-4:2004	Immunity to radiated electromagnetic fields - Bulk current injection (BCI) method
SAE J1113-11 SAE J1113-11:2018 SAE J1113-11:2017 SAE J1113-11:2012 SAE J1113-11:2007	Immunity to conducted transients on power leads [Except Pulse 5 calibration into 2 Ohms T _d meets 400ms ±80ms]
SAE J1113-12 SAE J1113-12:2017 SAE J1113-12:2006	Electrical interference by conduction and coupling - capacitive and inductive coupling via lines other than supply lines
SAE J1113-13 SAE J1113-13:2015 SAE J1113-13:2011 SAE J1113-13:2004	Electromagnetic compatibility measurement procedure for vehicle components - immunity to electrostatic discharge
SAE J1113-21:2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay
SAE J1113-22:2003	Electromagnetic compatibility measurement procedure for vehicle components - immunity to radiated magnetic fields
SAE J1113-41:2000	Limits and methods of measurement of radio disturbance characteristics of components and modules for the protection of receivers used on board vehicles
SAE J1455	Joint SAE/TMC recommended environmental practices for electronic equipment design (heavy-duty trucks), [Sections: 4.13.1, 4.13.2 and 4.13.3]
SAE J1752-3	(R) measurement of radiated emissions from integrated circuits - TEM/wideband TEM (GTEM) cell method; TEM cell 150 kHz to 1 GHz, wideband TEM cell 150 kHz to 8 GHz [up to 3GHz]
<u>TAIWAN / CHINESE TAIPEI</u>	
LP0002	Low-power Radio-frequency Devices Technical Regulations [Excluding SAR]

STANDARD	DESCRIPTION OF STANDARD
UNITED STATES	
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 11	Emergency alert system (EAS)
47 CFR PART 15	Radio frequency devices
47 CFR PART 18	Industrial, scientific and medical equipment
47 CFR PART 20	Commercial mobile services [Excluding HAC]
47 CFR PART 22	Public mobile services
47 CFR PART 24	Personal communications services
47 CFR PART 25	Satellite communications
47 CFR PART 27	Miscellaneous wireless communication services
47 CFR PART 30	Upper microwave flexible use service
47 CFR PART 73	Radio broadcast services
47 CFR PART 74	Experimental radio, auxiliary, and special broadcast and other program distributional services
47 CFR PART 80	Stations in the maritime services
47 CFR PART 87	Aviation services
47 CFR PART 90	Private land mobile radio services
47 CFR PART 95	Personal radio services
47 CFR PART 96	Citizens broadband radio services
47 CFR PART 97	Amateur radio services
47 CFR PART 101	Fixed microwave services
ANSI C63.4 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)
ANSI C63.10 ANSI C63.10-2013	American national standard for testing unlicensed wireless devices
ANSI C63.17 ANSI C63.17-2013	American National Standard for Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices
ANSI C63.26 ANSI C63.26-2015	Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI RESNA WC VOL.2	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]
ANSI/TIA 603E; TIA-102.CAAA-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
FCC MP-5:1986	Methods of Measurements of Radio Noise Emissions from Industrial, Scientific and Medical equipment
FCC KDB 905462 D02 (v01)	U-NII with DFS Intentional Radiators
DO-160C	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22]
DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [Sections: 15, 16, 17, 18, 19, 20, 21, 22, 25]

<u>STANDARD</u>	<u>DESCRIPTION OF STANDARD</u>
<u>UNITED STATES (CONT'D)</u>	
MIL-STD-461A/B/C, Using the methods of MIL-STD-462	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE01, CE02, CE03, CE04, CE05, CE06, CE07, RE01, RE02, RE03] [Susceptibility: CS01, CS02, CS03, CS04, CS05, CS06, CS07, CS08, CS09, CS10, CS11, CS12, RS01, RS02, RS03, RS06]
MIL-STD-461D Using the methods of MIL-STD-462D	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461E	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461F	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, RS101, RS103]
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of electromagnetic interference: [Emissions: CE101, CE102, CE106, RE101, RE102, RE103] [Susceptibility: CS101, CS103, CS104, CS105, CS109, CS114, CS115, CS116, CS117, CS118, RS101, RS103]
<u>VIETNAM</u>	
TCVN 7189	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
TCVN 7317	Information technology equipment - Immunity characteristics - Limits and methods of measurement
QCVN 118:2018/BTTTT	National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ¹		
Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Unintentional Radiators</u>		
Part 15B	ANSI C63.4:2014	40000
<u>Industrial, Scientific, and Medical Equipment</u>		
Part 18	FCC MP-5:1986	220000
<u>Intentional Radiators</u>		
Part 15C	ANSI C63.10:2013	220000
<u>Unlicensed Personal Communication Systems Devices</u>		
Part 15D	ANSI C63.17:2013	40000
<u>U-NII without DFS Intentional Radiators</u>		
Part 15E	ANSI C63.10:2013	40000
<u>U-NII with DFS Intentional Radiators</u>		
Part 15E	FCC KDB 905462 D02 (v02)	40000
<u>UWB Intentional Radiators</u>		
Part 15F	ANSI C63.10:2013	220000
<u>BPL Intentional Radiators</u>		
Part 15G	ANSI C63.10:2013	220000
<u>White Space Device Intentional Radiators</u>		
Part 15H	ANSI C63.10:2013	220000
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u>		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26:2015	220000
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u>		
Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26:2015	220000

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ¹		
Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
<u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u>		
Part 96	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26:2015	220000
<u>Maritime and Aviation Radio Services</u>		
Parts 80 and 87	ANSI/TIA-603-E; OR ANSI C63.26:2015	220000
<u>Microwave and Millimeter Bands Radio Services</u>		
Parts 25, 30, 74, 90 (M, DSRC, Y, Z), 95 (M and L), and 101	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26:2015	220000
<u>Broadcast Radio Services</u>		
Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26:2015	220000
<u>Signal Boosters</u>		
Part 20 (Wideband Consumer Signal Boosters, Provider-specific Signal Boosters, and Industrial Signal Boosters), Section 90.219	ANSI C63.26:2015	220000

¹ Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.

Notes:

1. This accreditation covers testing performed at all laboratory locations listed in this scope of accreditation.
2. Limitations for listed standards are indicated by square brackets.
3. Excluding SAR, and HAC where applicable.



Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC.

Mariposa, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 13th day of May 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0803.01
Valid to March 31, 2021

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