SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CKC LABORATORIES, INC. [1]
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ELECTRICAL

Valid to: March 31, 2027 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 [2,3]:	**DESCRIPTION OF STANDARD:**	**MARIPOSA**
Core Measurement Methods:		
RADIATED / CONDUCTED EMISSIONS		
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	
CISPR 11 CISPR 11: 2015+A1+A2 CISPR 11: 2015+A1 CISPR 11: 2015 CISPR 11: 2009+A1 CISPR 11: 2009 CISPR 11: 2003	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
CISPR 14-1 CISPR 14-1: 2020 CISPR 14-1: 2016 CISPR 14-1: 2005+A1 CISPR 14-1: 2005	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1 Emission [*excluding clicks*]	
CISPR 15 CISPR 15: 2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
CISPR 22: 2008 CISPR 22: 2005+A1+A2 CISPR 22: 2005+A1 CISPR 22: 2005	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement [*table top equipment only for testing above 1 GHz*]	
CISPR 32 CISPR 32: 2015+A1 CISPR 32: 2015 CISPR 32: 2012+C1+C2	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
ICES-001	Industrial, Scientific and Medical (ISM) radio frequency generators	

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STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
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)	
ICES-GEN	General Requirements for Compliance of Interference-Causing Equipment	
IEC 61000-3-2 IEC 61000-3-2: 2018+A1+A2 IEC 61000-3-2: 2018+A1 IEC 61000-3-2: 2018	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
IEC 61000-3-3 IEC 61000-3-3: 2013+A1+A2 IEC 61000-3-3: 2013+A1 IEC 61000-3-3: 2013	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	
FCC MP-5: 1986	Methods of measurements of radio noise emissions from industrial, scientific and medical equipment	
IMMUNITY		
CISPR 14-2 CISPR 14-2: 2020 CISPR 14-2: 2015 CISPR 14-2:1997+A1+A2 CISPR 14-2:1997+A1 CISPR 14-2:1997	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity - Product family standard	
CISPR 24: 2010+A1 CISPR 24: 2010 CISPR 24: 1997+A1+A2 CISPR 24: 1997+A1 CISPR 24: 1997	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
CISPR 35 CISPR 35: 2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
ENV 50204: 1996	Radiated electromagnetic field from digital radio telephones - immunity test (900 MHz, 5 MHz keyed carrier)	
IEC 61000-4-2 IEC 61000-4-2: 2008 IEC 61000-4-2: 1995+A1+a2	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
IEC 61000-4-3 IEC 61000-4-3: 2020 IEC 61000-4-3: 2006+A1+A2 IEC 61000-4-3: 2006+A1 IEC 61000-4-3: 2006	Electromagnetic compatibility (EMC) – Part 4-3 Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
IEC 61000-4-4 IEC 61000-4-4: 2012 IEC 61000-4-4: 2004+A1 IEC 61000-4-4: 2004	Electromagnetic compatibility (EMC) – Part 4-4 Testing and measurement techniques – Electrical fast transient/burst immunity test	
IEC 61000-4-5 IEC 61000-4-5: 2014+A1 IEC 61000-4-5: 2014 IEC 61000-4-5: 2005	Electromagnetic compatibility (EMC) – Part 4-5 Testing and measurement techniques – Surge immunity test	
IEC 61000-4-6 IEC 61000-4-6: 2023 IEC 61000-4-6: 2013 IEC 61000-4-6: 2008 IEC 61000-4-6: 2003+A1 IEC 61000-4-6: 2003 IEC 61000-4-6: 1996+A1	Electromagnetic compatibility (EMC) – Part 4-6 Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
IEC 61000-4-8 IEC 61000-4-8: 2009 IEC 61000-4-8: 1993+A1 IEC 61000-4-8: 1993	Electromagnetic compatibility (EMC) – Part 4 Testing and measurement techniques – Section 8 Power frequency magnetic field immunity test basic EMC publication	
IEC 61000-4-11 IEC 61000-4-11: 2020 IEC 61000-4-11: 2004+A1 IEC 61000-4-11: 2004 IEC 61000-4-11: 1994+A1 IEC 61000-4-11: 1994	Electromagnetic compatibility (EMC) – Part 4 Testing and measuring techniques – Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
IEC 61000-4-12 IEC 61000-4-12: 2017	Electromagnetic Compatibility (EMC) – Part 4-12: Testing and measurement techniques – Ring wave immunity test	
IEC 61000-4-13 IEC 61000-4-13: 2002+A1+A2	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 61000-4-16 IEC 61000-4-16: 2015	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
IEC 61000-4-29 IEC 61000-4-29: 2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
IEC 61000-4-39 IEC 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9 kHz to 26 MHz*]	
AUTOMOTIVE		
CISPR 12 CISPR 12: 2007+A1 CISPR 12: 2007	Vehicles, boats, and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of off-board receivers	
CISPR 36 CISPR 36: 2020+A1 CISPR 36: 2020	Electric and hybrid electric road vehicles – Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers below 30 MHz	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
ENERGY GRID / EV		
IEEE 1613: 2009	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations	
UL 991 UL 991: 2010	Tests for Safety-Related Controls Employing Solid-State Devices [*Sections: 11, 13, 14.3, 14.7, 14.8, 14.9, 14.10, 15*]	
UL 2202 UL 2202: 2022	Standard for Safety, Electric Vehicle (EV) Charging System Equipment [*Sections: 37.2(c), 37.2(d)*]	
UL 2231-2: 2016	Standard for Safety, Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits [*Sections: 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, & 24.10*]	
UL 9540: 2020	Standard for Safety, Energy Storage Systems and Equipment [*Section: 32*]	
MARITIME		
DNV-CG-0339 DNV-CG-0339: 2021 DNVGL-CG-0339: 2019 DNVGL-CG-0339: 2016	Class Guideline: Environmental test specification for electrical, electronic and programmable equipment and systems. [*Sections 3.4, 3.5, 3.12, 3.13, & 3.14*]	
MILITARY / AEROSPACE		
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*]	
MIL-STD-704F	Aircraft Electrical Power Characteristics	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
MIL-HDBK-704-8	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 28VDC	
RADIO / WIRELESS		
ANSI C63.10 ANSI C63.10: 2020 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	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	
ANSI C63.30 ANSI C63.30: 2021	American National Standard for Methods of Measurements of Radio-Frequency Emissions from Wireless Power Transfer Equipment	
ANSI/TIA-603E TIA-102.CAAA-E	Land mobile FM or PM communications equipment measurement and performance standards	
FCC KDB 905462 D02 FCC KDB 905462 D02 v02	U-NII with DFS Intentional Radiators	
EN 300 086 EN 300 086 v2.1.2	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech	
EN 300 113 EN 300 113 v3.1.1 EN 300 113 v2.2.1	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 EN 300 219 v2.1.1	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver	
EN 300 220-1 EN 300 220-1 v3.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
EN 300 220-2 EN 300 220-2 v3.2.1 EN 300 220-2 v3.1.1	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 EN 300 220-3-1 v2.1.1	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 EN 300 220-3-2 v1.1.1	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 EN 300 220-4 v1.1.1	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 EN 300 224 v2.1.1	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz	
EN 300 328 EN 300 328 v2.2.2 EN 300 328 v2.1.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 300 330 EN 300 330 v2.1.1	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 300 422-1 EN 300 422-1 v2.2.1 EN 300 422-1 v2.1.2 EN 300 422-1 v1.4.2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers	
EN 300 422-2 EN 300 422-2 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers	
EN 300 422-3 EN 300 422-3 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers	
EN 300 422-4 EN 300 422-4 v2.1.1	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 EN 300 433 v2.1.1	Citizens' Band (CB) radio equipment	
EN 300 440 EN 300 440 v2.2.1 EN 300 440 v2.1.1	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 300 454-2 EN 300 454-2 v1.1.1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links	
EN 300 487 EN 300 487 v2.1.2	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 301 357 EN 301 357 v2.1.1	Cordless audio devices in the range 25 MHz to 2 000 MHz	
EN 301 502 EN 301 502 v12.5.2	Global System for Mobile communications (GSM); Base station and repeater equipment	
EN 301 893 EN 301 893 v2.1.1	Wireless Access Systems; 5GHz Radio Local Area Network (RLAN) [*excluding section 5.4.9.3.2.4.1*]	
EN 301 908-1 EN 301 908-1 v15.2.1 EN 301 908-1 v15.1.1 EN 301 908-1 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 1: Introduction and common requirements	
EN 301 908-3 EN 301 908-3 v15.1.1 EN 301 908-3 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 3: CDMA Direct Spread (UTRA FDD) Base Stations	
EN 301 908-5 EN 301 908-5 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 5: CDMA Multi-Carrier (cdma2000) Base Stations	
EN 301 908-7 EN 301 908-7 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 7: CDMA TDD (UTRA TDD) Base Stations	
EN 301 908-9 EN 301 908-9 v1.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 9: Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) Base Station	
EN 301 908-11 EN 301 908-11 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 11: CDMA Direct Spread (UTRA FDD) Repeaters	
EN 301 908-12 EN 301 908-12 v7.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 12: CDMA Multi-Carrier (cdma2000) Repeaters	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 301 908-14 EN 301 908-14 v15.1.1 EN 301 908-14 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations	
EN 301 908-15 EN 301 908-15 v15.1.1 EN 301 908-15 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	
EN 301 908-17 EN 301 908-17 v4.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 17: Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) Base Station	
EN 301 908-18 EN 301 908-18 v15.1.1 EN 301 908-18 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station	
EN 301 908-20 EN 301 908-20 v6.3.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 20: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 301 908-22 EN 301 908-22 v6.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 22: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 302 064 EN 302 064 v2.1.1 EN 302 064-2 v1.1.1	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band	
EN 302 065-1 EN 302 065-1 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications	
EN 302 065-2 EN 302 065-2 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking	
EN 302 066 EN 302 066 v2.2.1 EN 302 066-2 v1.2.1	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems	
EN 302 195 EN 302 195 v2.1.1	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 EN 302 208 v3.4.1 EN 302 208 v3.3.1 EN 302 208 v3.1.1	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 to 921) MHz with power levels up to 4 W	
EN 302 326-2 EN 302 326-2 v2.1.1 EN 302 326-2 v1.2.2	Fixed Radio Systems; Multipoint equipment and antennas; Part 2: digital multipoint radio equipment	
EN 302 502 EN 302 502 v2.1.1	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems	
EN 302 645 EN 302 645 v1.1.1	Electromagnetic compatibility and radio spectrum matters (ERM); Short range devices; Global navigation satellite systems (GNSS) repeaters	
EN 303 413 EN 303 413 v1.2.1 EN 303 413 v1.1.1	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 EN 303 417 v1.1.1	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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 303 446-1 EN 303 446-1 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 1: Requirements for equipment intended to be used in residential, commercial and light industry locations	
EN 303 446-2 EN 303 446-2 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 2: Requirements for equipment intended to be used in industrial locations	
EN 303 454 EN 303 454 v1.1.1	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz	
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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
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-198	Flexible Use Broadband Equipment Operating in the Band 3900-3980 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 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-246	Ultra-Low Power (ULP) Wireless Medical Capsule Endoscopy Devices Operating in the 430-440 MHz Band	
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices	
RSS-248	Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band	
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	
KS X 3123	Conformity Assessment Procedure of Radio Equipment	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**MARIPOSA**
KS X 3143	Test Methods of radio disturbance for residential wireless power-transmission equipment	
MSIT No. 86, Jan 4, 2022	Regulations on Radio Equipment [*excluding SAR*]	
MSIT Public Notification 2024-22, May 30, 2024	Unlicensed Radio Equipment Established without Notice [*excluding SAR*]	
RRA Public Notification 2022-28, Dec 30, 2022	Technical Requirements of Radio Wave Application	
RF EXPOSURE		
IEC 62233 IEC 62233: 2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
IEC 62311 IEC 62311: 2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
IEC 62479 IEC 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
RSS-102	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) [*MPE Calculations, RF Exposure Measurement and Nerve Stimulation Measurement Only*]	
RSS-102.NS.MEAS	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 [*excluding 5.1*]	
PRODUCT FAMILY STANDARDS:		
AUSTRALIA / NEW ZEALAND		
ACMA Short Range Equipment Standard	ACMA Radiocommunications Equipment (General) Rules 2021 – Schedule 5, Part 15, Short Range Equipment Standard using: AS/NZS 4268: 2017 +A1: 2021 ETSI EN 300 220-1 v3.1.1: 2017 ETSI EN 300 330 v2.1.1: 2017 ETSI EN 300 440 v2.2.1: 2018 Federal Communications Commission Rules Title 47 (Telecommunications) Part 15–Radio Frequency Devices.	
ARPANSA RPS S-1 ARPANSA RPS S-1: 2021	Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz [*excluding SAR*]	
AS/NZS 4268 AS/NZS 4268: 2017+A1	Radio equipment and systems - Short range devices - Limits and methods of measurement	
AS/NZS 4295 AS/NZS 4295 (2015) +A1	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 AS/NZS 4768.1 (2010)	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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
AS/NZS 61000.6.3: 2021	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
AS 61000.6.4: 2020	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
AS/NZS 61000.6.8	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
AS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
AS/NZS CISPR 14.1: 2021	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 +A1	Electromagnetic compatibility of multimedia equipment – Emission Requirements	
EUROPEAN NORM		
EN 12015 EN 12015: 2020 EN 12015: 2014	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 EN 12184: 2022 EN 12184: 2014	Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods [*Section 12.1 Only*]	
EN 13309: 2010	Construction machinery – Electromagnetic compatibility of machines with internal electrical power supply	
EN 13763-26 EN 13763-26: 2004	Explosives for civil uses – Detonators and relays – Part 26	
EN ISO 13766-1 EN ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	
EN ISO 13766-2 EN 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	
EN ISO 14982 EN ISO 14982: 2009	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 15194 EN 15194: 2017+A1 EN 15194: 2017 EN 15194: 2009+A1 EN 15194: 2009	Cycles – Electrically power assisted cycles – EPAC Bicycles	
EN 50065-1 EN 50065-1: 2011	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 EN 50065-2-1: 2003+A1 EN 50065-2-1: 2003	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 50065-2-2 EN 50065-2-2: 2003+A1 EN 50065-2-2: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148,5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 148,5) kHz	
EN 50065-2-3 EN 50065-2-3: 2024 EN 50065-2-3: 2003+A1 EN 50065-2-3: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (3 to 95) kHz	
EN 50083-2 EN 50083-2: 2012+A1	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment	
EN 50121-1 EN 50121-1: 2017 EN 50121-1: 2006+AC	Railway applications - Electromagnetic compatibility - Part 1 General	
EN 50121-3-2 EN 50121-3-2: 2016+A1 EN 50121-3-2: 2016	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - Apparatus	
EN 50121-4 EN 50121-4: 2016+A1 EN 50121-4: 2016	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signaling and telecommunications apparatus	
EN 50130-4 EN 50130-4: 2011+A1 EN 50130-4: 2011	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems	
EN 50270 EN 50270: 2015+AC	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	
EN 50370-1 EN 50370-1: 2005	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.	
EN 50370-2 EN 50370-2: 2003	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity	
EN 50498 EN 50498: 2010	Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 55011 EN 55011: 2016+A1+A2+A11 EN 55011: 2016+A1+A11 EN 55011: 2016+A1 EN 55011: 2016 EN 55011: 2009+A1 EN 55011: 2009	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement	
EN 55012 EN 55012: 2007+A1	Vehicles, boats and internal combustion engines. Radio disturbance characteristics. Limits and methods of measurement for the protection of off-board receivers	
EN IEC 55014-1 EN IEC 55014-1: 2021 EN 55014-1: 2017+A11 EN 55014-1: 2017 EN 55014-1: 2006+A1+A2 EN 55014-1: 2006+A1 EN 55014-1: 2006	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [*excluding clicks*]	
EN IEC 55014-2 EN IEC 55014-2: 2021 EN 55014-2: 2015 EN 55014-2: 1997+A1+A2+AC EN 55014-2: 1997+A1+AC EN 55014-2: 1997	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard	
EN IEC 55015 EN IEC 55015: 2019+A11 EN IEC 55015: 2019 EN 55015: 2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 55022: 2010 EN 55022: 2006+A1+A2	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [*table-top equipment only for testing above 1 GHz*]	
EN 55024: 2010+A1 EN 55024: 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EN 55032 EN 55032: 2015+A11 EN 55032: 2015 EN 55032: 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EN 55035 EN 55035: 2017+A11 EN 55035: 2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EN IEC 55036 EN IEC 55036: 2020+A1 EN IEC 55036: 2020	Electric and hybrid electric road vehicles – Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers below 30 MHz	
EN 55103-1: 2009+A1 EN 55103-1: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Emission	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 55103-2: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity	
EN 60034-1 EN 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
EN 60601-1-2 EN 60601-1-2: 2015+A1 EN 60601-1-2: 2015 EN 60601-1-2: 2007	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests	
EN IEC 60601-2-2 EN IEC 60601-2-2: 2018+A1 EN IEC 60601-2-2: 2018 EN 60601-2-2: 2009+A11 EN 60601-2-2: 2009	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [*EMC sections only*]	
EN 60601-2-4 EN 60601-2-4: 2011+A1 EN 60601-2-4: 2011 EN 60601-2-4: 2003	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [*EMC sections only*]	
EN 60601-2-10 EN 60601-2-10: 2015+A1+A2 EN 60601-2-10: 2015+A1 EN 60601-2-10: 2015 EN 60601-2-10: 2001+A1 EN 60601-2-10: 2001	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 IEC 60601-2-22 EN IEC 60601-2-22: 2020 EN 60601-2-22: 2013	Medical electrical equipment – Part 2 Particular requirements for the safety of diagnostic and therapeutic laser equipment [*EMC sections only*]	
EN 60601-2-24 EN 60601-2-24: 2015 EN 60601-2-24: 1998	Medical electrical equipment – Part 2-24 Particular requirements for the safety of infusion pumps and controllers [*EMC sections only*]	
EN 60601-2-26: 2015	Medical electrical equipment – Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [*EMC sections only*]	
EN 60601-2-34 EN 60601-2-34: 2014 EN 60601-2-34: 2000	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 EN 60601-2-37: 2008+A1 EN 60601-2-37: 2008	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 EN 60601-2-47: 2015 EN 60601-2-47: 2001	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 EN 60601-2-62: 2015	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*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN ISO 80601-2-55 EN ISO 80601-2-55: 2018	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: 2016+A1+A2 EN 60730-1: 2016+A1 EN 60730-1: 2016 EN 60730-1: 2011	Automatic electrical controls for household and similar use – Part 1 General requirements [*EMC Sections Only*]	
EN IEC 60730-2-9 EN IEC 60730-2-9: 2019+A1+A2 EN IEC 60730-2-9: 2019+A1 EN IEC 60730-2-9: 2019 EN 60730-2-9: 2010	Automatic electrical controls for household and similar use – Part 2 Particular requirements	
EN 60945 EN 60945: 2002	Maritime navigation and radio communication equipment and systems – General requirements – Methods of testing and required test results	
EN IEC 61000-3-2 EN IEC 61000-3-2: 2019+A1+A2 EN IEC 61000-3-2: 2019+A1 EN IEC 61000-3-2: 2019 EN 61000-3-2: 2014	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤16 A per phase)	
EN 61000-3-3 EN 61000-3-3: 2013+A1+A2 EN 61000-3-3: 2013+A1 EN 61000-3-3: 2013	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 EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
EN IEC 61000-4-3 EN IEC 61000-4-3: 2020 EN 61000-4-3: 2006+A1+A2	Electromagnetic compatibility (EMC) – Part 4-3 Testing and measurement techniques – Radiated, radio frequency, electromagnetic field immunity test	
EN 61000-4-4 EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) – Part 4-4 Testing and measurement techniques – Electrical fast transient/burst immunity test	
EN 61000-4-5 EN 61000-4-5: 2014 +A1 EN 61000-4-5: 2014	Electromagnetic compatibility (EMC) – Part 4-5 Testing and measurement techniques – Surge immunity test	
EN IEC 61000-4-6 EN IEC 61000-4-6: 2023 EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) – Part 4-6 Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EN 61000-4-8 EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) – Part 4 Testing and measurement techniques – Section 8 Power frequency magnetic field immunity test basic EMC publication	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN IEC 61000-4-11 EN IEC 61000-4-11: 2020 EN 61000-4-11: 2004+A1 EN 61000-4-11: 2004	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
EN 61000-4-12 EN 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	
EN 61000-4-13 EN 61000-4-13: 2002 +A1+A2	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 61000-4-16 EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
EN 61000-4-29 EN 61000-4-29: 2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EN 61000-4-39 EN 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9kHz to 26MHz*]	
EN IEC 61000-6-1 EN IEC 61000-6-1: 2019 EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments	
EN IEC 61000-6-2 EN IEC 61000-6-2: 2019 EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments	
EN IEC 61000-6-3 EN IEC 61000-6-3: 2021 EN 61000-6-3: 2007+A1 EN 61000-6-3: 2007	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
EN IEC 61000-6-4 EN IEC 61000-6-4: 2019 EN 61000-6-4: 2007+A1 EN 61000-6-4: 2007	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
EN IEC 61000-6-8 EN IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
EN 61131-2 EN 61131-2: 2007	Programmable controllers, Equipment requirements and tests [*EMC sections only*]	
EN IEC 61204-3 EN IEC 61204-3: 2018 EN 61204-3: 2001	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)	
EN IEC 61326-1 EN IEC 61326-1: 2021 EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements	
EN IEC 61326-2-1 EN IEC 61326-2-1: 2021 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1 Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications.	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN IEC 61326-2-2 EN IEC 61326-2-2: 2021 EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems.	
EN IEC 61326-2-3 EN IEC 61326-2-3: 2021 EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3 Particular requirements – Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EN IEC 61326-2-5 EN IEC 61326-2-5: 2021 EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1.	
EN IEC 61326-2-6 EN IEC 61326-2-6: 2021 EN 61326-2-6: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. In vitro diagnostic (IVD) medical equipment.	
EN 61326-3-1 EN 61326-3-1: 2017	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) - General industrial applications.	
EN IEC 61326-3-2 EN IEC 61326-3-2: 2018 EN 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment.	
EN IEC 61547 EN IEC 61547: 2023 EN 61547: 2009	Equipment for general lighting purposes - EMC immunity requirements	
EN 61850-3 EN 61850-3: 2014	Communication Networks and Systems in Substations [Section 6.7, excluding tests 10.3, 11.4, 12.6~~*excluding 5.7.1.3 and 5.7.3*~~]	
EN IEC 61851-21-2 EN IEC 61851-21-2: 2021	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
EN IEC 61967-4 EN IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1 Ω/150Ω direct coupling method	
EN IEC 62040-2 EN IEC 62040-2: 2018 EN 62040-2: 2006+AC	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
EN IEC 62061 EN IEC 62061: 2021+A1 EN IEC 62061: 2021 EN 62061: 2005+A1+A2	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3*~~*, ref Annex E*~~]	
EN 62233 EN 62233: 2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
EN IEC 62311 EN IEC 62311: 2020 EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 62479 EN 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
EN 300 386 EN 300 386 v2.2.1 EN 300 386 v2.1.1 EN 300 386 v1.6.1	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements	
EN 301 489-1 EN 301 489-1 v2.2.3 EN 301 489-1 v2.1.1 EN 301 489-1 v1.9.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	
EN 301 489-2 EN 301 489-2 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 2: Specific conditions for radio paging equipment	
EN 301 489-3 EN 301 489-3 v2.3.2 EN 301 489-3 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	
EN 301 489-4 EN 301 489-4 v3.3.1 EN 301 489-4 v3.2.1 EN 301 489-4 v3.1.1 EN 301 489-4 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 4: Specific conditions for fixed radio links and ancillary equipment	
EN 301 489-5 EN 301 489-5 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	
EN 301 489-6 EN 301 489-6 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	
EN 301 489-7 EN 301 489-7 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	
EN 301 489-8 EN 301 489-8 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 8: Specific conditions for GSM base stations	
EN 301 489-9 EN 301 489-9 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	
EN 301 489-10 EN 301 489-10 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 10: Specific conditions for First (CT1 and CT1+) and Second-Generation Cordless Telephone (CT2) equipment	
EN 301 489-11 EN 301 489-11 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 11: Specific conditions for terrestrial sound broadcasting service transmitters	
EN 301 489-12 EN 301 489-12 v3.2.1 EN 301 489-12 v3.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 301 489-13 EN 301 489-13 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	
EN 301 489-14 EN 301 489-14 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters	
EN 301 489-15 EN 301 489-15 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 15: Specific conditions for commercially available amateur radio equipment	
EN 301 489-16 EN 301 489-16 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable	
EN 301 489-17 EN 301 489-17 v3.2.4 EN 301 489-17 v3.1.1 EN 301 489-17 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 17: Specific conditions for Broadband Data Transmission Systems	
EN 301 489-18 EN 301 489-18 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	
EN 301 489-19 EN 301 489-19 v2.2.1 EN 301 489-19 v2.1.1 EN 301 489-19 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	
EN 301 489-20 EN 301 489-20 v2.2.1 EN 301 489-20 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	
EN 301 489-22 EN 301 489-22 v2.1.1 EN 301 489-22 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 22: Specific conditions for ground based aeronautical mobile and fixed radio equipment; Harmonised Standard for ElectroMagnetic Compatibility	
EN 301 489-23 EN 301 489-23 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	
EN 301 489-24 EN 301 489-24 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 24:Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EN 301 489-25 EN 301 489-25 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	
EN 301 489-26 EN 301 489-26 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 26: Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment	
EN 301 489-27 EN 301 489-27 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EN 301 489-28 EN 301 489-28 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 28: Specific conditions for wireless digital video links	
EN 301 489-29 EN 301 489-29 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 29: Specific conditions for Medical Data Service Devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands	
EN 301 489-31 EN 301 489-31 v2.2.1 EN 301 489-31 v2.1.1 EN 301 489-31 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P	
EN 301 489-33 EN 301 489-33 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 33: Specific conditions for Ultra-Wide Band (UWB) communications devices	
EN 301 489-34 EN 301 489-34 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	
EN 301 489-35 EN 301 489-35 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands	
EN 301 489-50 EN 301 489-50 v2.3.1 EN 301 489-50 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater, and ancillary equipment	
EN 301 489-51 EN 301 489-51 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz	
EN 301 489-52 EN 301 489-52 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment	
EN 301 489-53 EN 301 489-53 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment	
EN 301 489-54 EN 301 489-54 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars	
EU DIRECTIVES		
EU Regulation 167/2013 EU Regulation 2015/208 EU Regulation 2018/829	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles	
EU Regulation 2018/858	EU Regulation on the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	
EU Regulation 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
EU Regulation 2019/2144	EU Regulation on type-approval requirements for motor vehicles and their trailers, and systems, components and separate technical units intended for such vehicles, as regards their general safety and the protection of vehicle occupants and vulnerable road users	
UNITED NATIONS		
UN/ECE Addendum 9 Regulation 10 Rev 6+A1+A2 Rev 6+A1 Rev 6 Rev 5+A1+A2 Rev 5+A1 Rev 5	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 [*Annexes 4 through 22*]	
IMDA SINGAPORE		
IMDA TS AR: 2016	Technical specification for Amateur Radio Equipment	
IMDA TS CBS: 2023	Technical specification for Cellular Base Station and Repeater System	
IMDA TS CT-CTS: 2016	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [*excluding dect and phs*]	
IMDA TS GMPCS: 2016	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals	
IMDA TS LMR: 2016	Technical specification for Land Mobile Radio Equipment	
IMDA TS SRD: 2023	Technical specification for Short Range Devices (SRD)	
IMDA TS UWB: 2016	Technical specification for Ultra-Wideband (UWB) Devices	
IMDA TS WBA: 2016	Technical specification for Wireless Broadband Access (WBA) equipment	
INTERNATIONAL		
CISPR 16-2-1 CISPR 16-2-1: 2014 +A1 CISPR 16-2-1: 2014 CISPR 16-2-1: 2008+A1+A2 CISPR 16-2-1: 2008+A1 CISPR 16-2-1: 2008 CISPR 16-2-1: 2003+A1 CISPR 16-2-1: 2003	Specification for radio disturbance and immunity measuring apparatus and methods — Part 2-1: Methods of measurement of disturbances and immunity — Conducted disturbance measurements	
CISPR 16-2-2 CISPR 16-2-2: 2010 CISPR 16-2-2: 2003+A1+A2 CISPR 16-2-2: 2003+A1 CISPR 16-2-2: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
CISPR 16-2-3 CISPR 16-2-3: 2016+A1+A2 CISPR 16-2-3: 2016+A1 CISPR 16-2-3: 2016 CISPR 16-2-3: 2010+A1+A2 CISPR 16-2-3: 2010+A1 CISPR 16-2-3: 2010 CISPR 16-2-3: 2003+A1+A2 CISPR 16-2-3: 2003+A1 CISPR 16-2-3: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	
IACS UR E10 IACS UR E10 r10: 2023 IACS UR E10 r09: 2023 IACS UR E10 r08: 2021	Requirements concerning Electrical and Electronic Installations: Test Specification for Type Approval [*Sections 3, 4, 9, 10, 13, 14, 15, 16, 17, 18, 19, & 20*]	
IEC 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
IEC 60533 IEC 60533: 2015 IEC 60533: 1999	Electromagnetic compatibility of electrical and electronic installations in ships	
IEC 60601-1-2 IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2014 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 IEC 60601-2-2: 2017 IEC 60601-2-2: 2009	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 IEC 60601-2-22: 2019 IEC 60601-2-22: 2007+A1	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: 2012	Medical electrical equipment – 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*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
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*]	
ISO 80601-2-55 ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [*EMC sections only*]	
IEC 60730-1	Automatic electrical controls for household and similar use – Part 1 General requirements [*EMC Sections Only*]	
IEC 60730-2-9	Automatic electrical controls for household and similar use – Part 2: Particular requirements	
IEC 60945 IEC 60945: 2002	Maritime navigation and radio communication equipment and systems – General requirements – Methods of testing and required test results	
IEC 61000-6-1 IEC 61000-6-1: 2016	Electromagnetic capability (EMC) – Part 6-1 Generic Standards – Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-2 IEC 61000-6-2: 2016	Electromagnetic Capability (EMC) – Part 6-2 Generic Standards – Immunity for industrial environments	
IEC 61000-6-3 IEC 61000-6-3: 2020 IEC 61000-6-3: 2006+A1	Electromagnetic Capability (EMC) – Part 6-3 Generic Standards – Emissions standard for residential, commercial, and light-industrial environments	
IEC 61000-6-4 IEC 61000-6-4: 2018 IEC 61000-6-4: 2006+A1	Electromagnetic Capability (EMC) – Part 6-4 Generic Standards – Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-8 IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) – Part 6-8: Generic standards – Emission standard for professional equipment in commercial and light-industrial locations	
IEC 61326-1 IEC 61326-1: 2020 IEC 61326-1: 2012 IEC 61326-1: 2005	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1 General requirements	
IEC 61326-2-1 IEC 61326-2-1: 2020 IEC 61326-2-1: 2012 IEC 61326-2-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	
IEC 61326-2-2 IEC 61326-2-2: 2020 IEC 61326-2-2: 2012 IEC 61326-2-2: 2005	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2 Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
IEC 61326-2-3 IEC 61326-2-3: 2020 IEC 61326-2-3: 2012 IEC 61326-2-3: 2006	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3 Particular requirements – Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**MARIPOSA**
IEC 61326-2-5 IEC 61326-2-5: 2020 IEC 61326-2-5: 2012 IEC 61326-2-5: 2006	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-5 Particular requirements – Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1	
IEC 61326-2-6 IEC 61326-2-6: 2020 IEC 61326-2-6: 2012 IEC 61326-2-6: 2005	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-6 Particular requirements. – Test configurations, operational conditions and performance criteria In vitro diagnostic (IVD) medical equipment.	
IEC 61326-3-1 IEC 61326-3-1: 2017 IEC 61326-3-1: 2008	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) - General industrial applications.	
IEC 61326-3-2 IEC 61326-3-2: 2017 IEC 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment.	
IEC 61547 IEC 61547: 2020	Equipment for general lighting purposes - EMC immunity requirements	
IEC 61850-3 IEC 61850-3: 2013	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6*]	
IEC 61851-21-2 IEC 61851-21-2: 2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
IEC 61967-4 IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1 Ω/150Ω direct coupling method	
IEC 62040-2 IEC 62040-2: 2016	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
IEC 62061 IEC 62061: 2021+A1 IEC 62061: 2021	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems ~~(~~[2021: *Section 6.6*, 2005: *Section 6.4.3*]	
ISO 22200: 2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity	
JAPAN		
JIS C 61326-1	Electrical equipment for measurement, control and laboratory use - Electromagnetic compatibility (EMC) requirements - Part 1: General requirements	
VCCI-CISPR 32 VCCI-CISPR 32: 2016	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
KOREA, REPUBLIC OF		
KS C 9811	CISPR 11: 2015 +A1	
KS C 9814-1	CISPR 14-1: 2020 [*excluding clicks*]	
KS C 9814-2	CISPR 14-2: 2020	
KS C 9815	CISPR 15: 2018	
KS C 9832	CISPR 32: 2015	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	MARIPOSA
KS C 9835	CISPR 35: 2016	
KS B 6955	EN 12015: 2013	
KS B 6945	EN 12016: 2013	
KS X 3124	EN 301 489-01 v2.1.1	
KS X 3137	EN 301 489-02 v1.3.1	
KS X 3125	EN 301 489-03 v1.6.1	
KS X 3127	EN 301 489-05 v1.3.1	
KS X 3128	EN 301 489-06 v1.4.1	
KS X 3129	EN 301 489-52 v1.1.0	
KS X 3130	EN 301 489-09 v1.4.1	
KS X 3131	EN 301 489-13 v1.2.1	
KS X 3136	EN 301 489-15 v2.1.1	
KS X 3126	EN 301 489-17 v2.1.1	
KS X 3132	EN 301 489-18 v1.3.1	
KS X 3139	EN 301 489-20 v1.2.1	
KS X 3134	EN 301 489-27 v2.1.1	
KS X 3138	EN 301 489-32 v1.1.1	
KS X 3135	EN 301 489-50 v2.1.1	
KS C IEC 60601-1-2 KS C IEC 60601-1-2: 2012	IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2007	
KS X 3140	IEC 60945: 2002; IEC 60533: 1999	
KS C 9610-6-1	IEC 61000-6-1: 2016	
KS C 9610-6-2	IEC 61000-6-2: 2016	
KS C 9610-6-3	IEC 61000-6-3: 2006+A1	
KS C 9610-6-4	IEC 61000-6-4: 2018	
KS C 9547	IEC 61547: 2009	
KS C 9040-2	IEC 62040-2: 2005	
TAIWAN / CHINESE TAIPEI		
CNS 13803 CNS 13803: 2018	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment	
CNS 14757-2 CNS 14757-2: 2019	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	
CNS 15936 CNS 15936: 2016	Electromagnetic compatibility of multimedia equipment – Emissions requirements	
LP0002 LP0002: 2024	Low-power Radio-frequency Devices Technical Regulations [*excluding SAR*]	
RTTE01 RTTE01: 2020	2.4GHz Radio-frequency Telecommunications terminal equipment technical specification	
VIETNAM		
TCVN 7189: 2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
TCVN 7317: 2003	Information technology equipment - Immunity characteristics - Limits and methods of measurement	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**MARIPOSA**
QCVN 118: 2018/BTTTT	National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements	
UNITED STATES		
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 RESNA WC-2: 2009	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [*Section 21 only*]	
Telcordia GR-1089-CORE 2017	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. [*Sections: 2, 3, & 4*]	

[1]*This accreditation covers testing performed at the main laboratory listed above, and at the four satellite laboratories indicated below*:

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**FREMONT**
Core Measurement Methods:		
RADIATED / CONDUCTED EMISSIONS		
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	
CISPR 11 CISPR 11: 2015+A1+A2 CISPR 11: 2015+A1 CISPR 11: 2015 CISPR 11: 2009+A1 CISPR 11: 2009 CISPR 11: 2003	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
CISPR 14-1 CISPR 14-1: 2020 CISPR 14-1: 2016 CISPR 14-1: 2005+A1 CISPR 14-1: 2005	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1 Emission [*excluding clicks*]	
CISPR 15 CISPR 15: 2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
CISPR 22: 2008 CISPR 22: 2005+A1+A2 CISPR 22: 2005+A1 CISPR 22: 2005	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement [*table top equipment only for testing above 1 GHz*]	
CISPR 32 CISPR 32: 2015+A1 CISPR 32: 2015 CISPR 32: 2012+C1+C2	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
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)	
ICES-GEN	General Requirements for Compliance of Interference-Causing Equipment	
IEC 61000-3-2 IEC 61000-3-2: 2018+A1+A2 IEC 61000-3-2: 2018+A1 IEC 61000-3-2: 2018	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
IEC 61000-3-3 IEC 61000-3-3: 2013+A1+A2 IEC 61000-3-3: 2013+A1 IEC 61000-3-3: 2013	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	
FCC MP-5: 1986	Methods of measurements of radio noise emissions from industrial, scientific and medical equipment	
IMMUNITY		
CISPR 14-2 CISPR 14-2: 2020 CISPR 14-2: 2015 CISPR 14-2:1997+A1+A2 CISPR 14-2:1997+A1 CISPR 14-2:1997	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity - Product family standard	
CISPR 24: 2010+A1 CISPR 24: 2010 CISPR 24: 1997+A1+A2 CISPR 24: 1997+A1 CISPR 24: 1997	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
CISPR 35 CISPR 35: 2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
ENV 50204: 1996	Radiated electromagnetic field from digital radio telephones - immunity test (900 MHz, 5 MHz keyed carrier)	
IEC 61000-4-2 IEC 61000-4-2: 2008 IEC 61000-4-2: 1995+A1+a2	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
IEC 61000-4-3 IEC 61000-4-3: 2020 IEC 61000-4-3: 2006+A1+A2 IEC 61000-4-3: 2006+A1 IEC 61000-4-3: 2006	Electromagnetic compatibility (EMC) – Part 4-3 Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	
IEC 61000-4-4 IEC 61000-4-4: 2012 IEC 61000-4-4: 2004+A1 IEC 61000-4-4: 2004	Electromagnetic compatibility (EMC) – Part 4-4 Testing and measurement techniques – Electrical fast transient/burst immunity test	
IEC 61000-4-5 IEC 61000-4-5: 2014+A1 IEC 61000-4-5: 2014 IEC 61000-4-5: 2005	Electromagnetic compatibility (EMC) – Part 4-5 Testing and measurement techniques – Surge immunity test	
IEC 61000-4-6 IEC 61000-4-6: 2023 IEC 61000-4-6: 2013 IEC 61000-4-6: 2008 IEC 61000-4-6: 2003+A1 IEC 61000-4-6: 2003 IEC 61000-4-6: 1996+A1	Electromagnetic compatibility (EMC) – Part 4-6 Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
IEC 61000-4-8 IEC 61000-4-8: 2009 IEC 61000-4-8: 1993+A1 IEC 61000-4-8: 1993	Electromagnetic compatibility (EMC) – Part 4 Testing and measurement techniques – Section 8 Power frequency magnetic field immunity test basic EMC publication	
IEC 61000-4-11 IEC 61000-4-11: 2020 IEC 61000-4-11: 2004+A1 IEC 61000-4-11: 2004 IEC 61000-4-11: 1994+A1 IEC 61000-4-11: 1994	Electromagnetic compatibility (EMC) – Part 4 Testing and measuring techniques – Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
IEC 61000-4-12 IEC 61000-4-12: 2017	Electromagnetic Compatibility (EMC) – Part 4-12: Testing and measurement techniques – Ring wave immunity test	
IEC 61000-4-13 IEC 61000-4-13: 2002+A1+A2	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 61000-4-16 IEC 61000-4-16: 2015	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
IEC 61000-4-29 IEC 61000-4-29: 2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
IEC 61000-4-39 IEC 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9 kHz to 26 MHz*]	
AUTOMOTIVE		
CISPR 25 CISPR 25: 2021 CISPR 25: 2016 CISPR 25: 2008 CISPR 25: 2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement [2021: *excluding sections 5 and 6.6*] [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*]	
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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
ISO 10605 ISO 10605: 2023 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: 2020 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 ISO 11452-5: 2002	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Stripline	
ISO 11452-7 ISO 11452-7: 2003+A1 ISO 11452-7: 2003	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 11452-9 ISO 11452-9: 2021 ISO 11452-9: 2012	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 9: Portable transmitters	
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 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 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 ISO 16750-2: 2023 ISO 16750-2: 2012 ISO 16750-2: 2010	Road vehicles -- Environmental conditions and testing for electrical and electronic equipment -- Part 2: Electrical loads [*excluding 4.11 & 4.12*]	
SAE J1113-2: 2010 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: 2020 SAE J1113-4: 2014 SAE J1113-4: 2004	Immunity to radiated electromagnetic fields – Bulk current injection (BCI) method	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
SAE J1113-11 SAE J1113-11: 2023 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: 2022 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: 2013 SAE J1113-21: 2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay	
SAE J1113-22: 2010 SAE J1113-22: 2003	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields	
SAE J1113-26 SAE J1113-26: 2021 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: 2006 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, & 4.13.3*]	
SAE J1752-3 SAE J1752-3: 2017	(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 3 GHz*]	
ENERGY GRID / EV		
IEEE 1613: 2009	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations	
UL 991 UL 991: 2010	Tests for Safety-Related Controls Employing Solid-State Devices [*Sections: 11, 13, 14.3, 14.7, 14.8, 14.9, 14.10, 15*]	
UL 2202 UL 2202: 2022	Standard for Safety, Electric Vehicle (EV) Charging System Equipment [*Sections: 37.2(c), 37.2(d)*]	
UL 2231-2: 2016	Standard for Safety, Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits [*Sections: 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, & 24.10*]	
UL 9540: 2020	Standard for Safety, Energy Storage Systems and Equipment [*Section: 32*]	
MARITIME		

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
DNV-CG-0339 DNV-CG-0339: 2021 DNVGL-CG-0339: 2019 DNVGL-CG-0339: 2016	Class Guideline: Environmental test specification for electrical, electronic and programmable equipment and systems. [*Sections 3.4, 3.5, 3.12, 3.13, & 3.14*]	
MILITARY / AEROSPACE		
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*]	
MIL-STD-704F MIL-STD-704E MIL-STD-704D MIL-STD-704C MIL-STD-704B MIL-STD-704A MIL-STD-704	Aircraft Electrical Power Characteristics	
MIL-HDBK-704-2	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 400Hz, 115VAC	
MIL-HDBK-704-3	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, 400Hz, 115VAC	
MIL-HDBK-704-4	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, Variable Frequency, 115VAC	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
MIL-HDBK-704-5	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, Variable Freuqency, 115VAC	
MIL-HDBK-704-6	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 60Hz, 115VAC	
MIL-HDBK-704-7	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 270VDC	
MIL-HDBK-704-8	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 28VDC	
RTCA/DO-160C	Environmental conditions and test procedures of airborne equipment. [*Sections: 15, 16, 17, 18, 19, 20, 21, & 22*]	
RTCA/DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [*Sections: 15, 16, 17, 18, 19, 20, 21, 22, & 25*]	
RTCA/DO-380	Environmental conditions and test procedures for ground-based equipment. [*Sections: 16, 19, 20, 21, 22, 25*]	
RADIO / WIRELESS		
ANSI C63.10 ANSI C63.10: 2020 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	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	
ANSI C63.30 ANSI C63.30: 2021	American National Standard for Methods of Measurements of Radio-Frequency Emissions from Wireless Power Transfer Equipment	
ANSI/TIA-603E TIA-102.CAAA-E	Land mobile FM or PM communications equipment measurement and performance standards	
FCC KDB 905462 D02 FCC KDB 905462 D02 v02	U-NII with DFS Intentional Radiators	
EN 300 086 EN 300 086 v2.1.2	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech	
EN 300 113 EN 300 113 v3.1.1 EN 300 113 v2.2.1	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 EN 300 219 v2.1.1	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver	
EN 300 220-1 EN 300 220-1 v3.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
EN 300 220-2 EN 300 220-2 v3.2.1 EN 300 220-2 v3.1.1	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 [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 300 220-3-1 EN 300 220-3-1 v2.1.1	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 EN 300 220-3-2 v1.1.1	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 EN 300 220-4 v1.1.1	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 EN 300 224 v2.1.1	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz	
EN 300 328 EN 300 328 v2.2.2 EN 300 328 v2.1.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	
EN 300 330 EN 300 330 v2.1.1	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 300 422-1 EN 300 422-1 v2.2.1 EN 300 422-1 v2.1.2 EN 300 422-1 v1.4.2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers	
EN 300 422-2 EN 300 422-2 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers	
EN 300 422-3 EN 300 422-3 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers	
EN 300 422-4 EN 300 422-4 v2.1.1	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 EN 300 433 v2.1.1	Citizens' Band (CB) radio equipment	
EN 300 440 EN 300 440 v2.2.1 EN 300 440 v2.1.1	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 300 454-2 EN 300 454-2 v1.1.1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links	
EN 300 487 EN 300 487 v2.1.2	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 301 357 EN 301 357 v2.1.1	Cordless audio devices in the range 25 MHz to 2 000 MHz	
EN 301 502 EN 301 502 v12.5.2	Global System for Mobile communications (GSM); Base station and repeater equipment	
EN 301 893 EN 301 893 v2.1.1	Wireless Access Systems; 5GHz Radio Local Area Network (RLAN) [*excluding section 5.4.9.3.2.4.1*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 301 908-1 EN 301 908-1 v15.2.1 EN 301 908-1 v15.1.1 EN 301 908-1 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 1: Introduction and common requirements	
EN 301 908-3 EN 301 908-3 v15.1.1 EN 301 908-3 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 3: CDMA Direct Spread (UTRA FDD) Base Stations	
EN 301 908-5 EN 301 908-5 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 5: CDMA Multi-Carrier (cdma2000) Base Stations	
EN 301 908-7 EN 301 908-7 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 7: CDMA TDD (UTRA TDD) Base Stations	
EN 301 908-9 EN 301 908-9 v1.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 9: Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) Base Station	
EN 301 908-11 EN 301 908-11 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 11: CDMA Direct Spread (UTRA FDD) Repeaters	
EN 301 908-12 EN 301 908-12 v7.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 12: CDMA Multi-Carrier (cdma2000) Repeaters	
EN 301 908-14 EN 301 908-14 v15.1.1 EN 301 908-14 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations	
EN 301 908-15 EN 301 908-15 v15.1.1 EN 301 908-15 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	
EN 301 908-17 EN 301 908-17 v4.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 17: Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) Base Station	
EN 301 908-18 EN 301 908-18 v15.1.1 EN 301 908-18 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station	
EN 301 908-20 EN 301 908-20 v6.3.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 20: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 301 908-22 EN 301 908-22 v6.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 22: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 302 064 EN 302 064 v2.1.1 EN 302 064-2 v1.1.1	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band	
EN 302 065-1 EN 302 065-1 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications	
EN 302 065-2 EN 302 065-2 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking	
EN 302 066 EN 302 066 v2.2.1 EN 302 066-2 v1.2.1	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems	
EN 302 195 EN 302 195 v2.1.1	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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 302 208 EN 302 208 v3.4.1 EN 302 208 v3.3.1 EN 302 208 v3.1.1	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 to 921) MHz with power levels up to 4 W	
EN 302 326-2 EN 302 326-2 v2.1.1 EN 302 326-2 v1.2.2	Fixed Radio Systems; Multipoint equipment and antennas; Part 2: digital multipoint radio equipment	
EN 302 502 EN 302 502 v2.1.1	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems	
EN 302 645 EN 302 645 v1.1.1	Electromagnetic compatibility and radio spectrum matters (ERM); Short range devices; Global navigation satellite systems (GNSS) repeaters	
EN 303 413 EN 303 413 v1.2.1 EN 303 413 v1.1.1	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 EN 303 417 v1.1.1	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 303 446-1 EN 303 446-1 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 1: Requirements for equipment intended to be used in residential, commercial and light industry locations	
EN 303 446-2 EN 303 446-2 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 2: Requirements for equipment intended to be used in industrial locations	
EN 303 454 EN 303 454 v1.1.1	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz	
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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
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-198	Flexible Use Broadband Equipment Operating in the Band 3900-3980 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 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-246	Ultra-Low Power (ULP) Wireless Medical Capsule Endoscopy Devices Operating in the 430-440 MHz Band	
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices	
RSS-248	Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
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	
KS X 3123	Conformity Assessment Procedure of Radio Equipment	
KS X 3143	Test Methods of radio disturbance for residential wireless power-transmission equipment	
MSIT No. 86, Jan 4, 2022	Regulations on Radio Equipment [*excluding SAR*]	
MSIT Public Notification 2024-22, May 30, 2024	Unlicensed Radio Equipment Established without Notice [*excluding SAR*]	
RRA Public Notification 2022-28, Dec 30, 2022	Technical Requirements of Radio Wave Application	
RF EXPOSURE		
IEC 62233 IEC 62233: 2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
IEC 62311 IEC 62311: 2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
IEC 62479 IEC 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
RSS-102	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) [*MPE Calculations, RF Exposure Measurement and Nerve Stimulation Measurement Only*]	
RSS-102.NS.MEAS	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 [*excluding 5.1*]	
PRODUCT FAMILY STANDARDS:		
AUSTRALIA / NEW ZEALAND		
ACMA Short Range Equipment Standard	ACMA Radiocommunications Equipment (General) Rules 2021 – Schedule 5, Part 15, Short Range Equipment Standard using: AS/NZS 4268: 2017 +A1: 2021 ETSI EN 300 220-1 v3.1.1: 2017 ETSI EN 300 330 v2.1.1: 2017 ETSI EN 300 440 v2.2.1: 2018 Federal Communications Commission Rules Title 47 (Telecommunications) Part 15–Radio Frequency Devices.	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
ARPANSA RPS S-1 ARPANSA RPS S-1: 2021	Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz [*excluding SAR*]	
AS/NZS 4268 AS/NZS 4268: 2017+A1	Radio equipment and systems - Short range devices - Limits and methods of measurement	
AS/NZS 4295 AS/NZS 4295 (2015) +A1	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 AS/NZS 4768.1 (2010)	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: 2021	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
AS 61000.6.4: 2020	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
AS/NZS 61000.6.8	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
AS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
AS/NZS CISPR 14.1: 2021	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+A1	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
EUROPEAN NORM		
EN 12015 EN 12015: 2020 EN 12015: 2014	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 EN 12184: 2022 EN 12184: 2014	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements And Test Methods [*Section 12.1 Only*]	
EN 13309: 2010	Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply	
EN 13763-26 EN 13763-26: 2004	Explosives for civil uses - Detonators and relays - Part 26	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN ISO 13766-1 EN ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	
EN ISO 13766-2 EN 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	
EN ISO 14982 EN ISO 14982: 2009	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria	
EN 15194 EN 15194: 2017+A1 EN 15194: 2017 EN 15194: 2009+A1 EN 15194: 2009	Cycles – Electrically power assisted cycles – EPAC Bicycles	
EN 50065-1 EN 50065-1: 2011	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 EN 50065-2-1: 2003+A1 EN 50065-2-1: 2003	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 50065-2-2 EN 50065-2-2: 2003+A1 EN 50065-2-2: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148,5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 148,5) kHz	
EN 50065-2-3 EN 50065-2-3: 2024 EN 50065-2-3: 2003+A1 EN 50065-2-3: 2003	Signaling on low-voltage electrical installations in the frequency range (3 kHz to 148.5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (3 kHz to 95) kHz	
EN 50083-2 EN 50083-2: 2012+A1	Cable networks for television signals, sound signals and interactive services – Part 2 Electromagnetic compatibility for equipment	
EN 50121-1 EN 50121-1: 2017 EN 50121-1: 2006+AC	Railway applications – Electromagnetic compatibility – Part 1: General	
EN 50121-3-2 EN 50121-3-2: 2016+A1 EN 50121-3-2: 2016	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus	
EN 50121-4 EN 50121-4: 2016+A1 EN 50121-4: 2016	Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signaling and telecommunications apparatus	
EN 50130-4 EN 50130-4: 2011+A1 EN 50130-4: 2011	Alarm systems – Part 4: Electromagnetic compatibility – Product family standard – Immunity requirements for components of fire, intruder and social alarm systems	
EN 50270 EN 50270: 2015+AC	Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	
EN 50370-1 EN 50370-1: 2005	Electromagnetic Compatibility (EMC) – Product family standard for machine tools – Part 1: Emissions	
EN 50370-2 EN 50370-2: 2003	Electromagnetic Compatibility (EMC) – Product family standard for machine tools – Part 2: Immunity	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 50498 EN 50498: 2010	Electromagnetic Compatibility (EMC) – Product family standard for aftermarket electronic equipment in vehicles	
EN 55011 EN 55011: 2016+A1+A2+A11 EN 55011: 2016+A1+A11 EN 55011: 2016+A1 EN 55011: 2016 EN 55011: 2009+A1 EN 55011: 2009	Industrial, Scientific and Medical (ISM) radio-frequency equipment – Radio disturbance characteristics – Limits and methods of measurement	
EN IEC 55014-1 EN IEC 55014-1: 2021 EN 55014-1: 2017+A11 EN 55014-1: 2017 EN 55014-1: 2006+A1+A2 EN 55014-1: 2006+A1 EN 55014-1: 2006	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission [*excluding clicks*]	
EN IEC 55014-2 EN IEC 55014-1: 2021 EN 55014-2: 2015 EN 55014-2: 1997+A1+A2+AC EN 55014-2: 1997+A1+AC EN 55014-2: 1997	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	
EN IEC 55015 EN IEC 55015: 2019+A11 EN IEC 55015: 2019 EN 55015: 2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 55022: 2010 EN 55022: 2006+A1+A2	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EN 55024: 2010+A1 EN 55024: 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EN 55032 EN 55032: 2015+A11 EN 55032: 2015 EN 55032: 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EN 55035 EN 55035: 2017+A11 EN 55035: 2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EN 55103-1: 2009+A1 EN 55103-1: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Emission	
EN 55103-2: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Immunity	
EN 60034-1 EN 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 60601-1-2 EN 60601-1-2: 2015+A1 EN 60601-1-2: 2015 EN 60601-1-2: 2007	Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests	
EN IEC 60601-2-2 EN IEC 60601-2-2: 2018+A1 EN IEC 60601-2-2: 2018 EN 60601-2-2: 2009+A11 EN 60601-2-2: 2009	Medical electrical equipment - Part 2-2: Particular requirements for the safety of high frequency surgical equipment [*EMC Sections Only*]	
EN 60601-2-4 EN 60601-2-4: 2011+A1 EN 60601-2-4: 2011 EN 60601-2-4: 2003	Medical electrical equipment - Part 2-4: Particular requirements for the safety of cardiac defibrillators [*EMC sections only*]	
EN 60601-2-10 EN 60601-2-10: 2015+A1+A2 EN 60601-2-10: 2015+A1 EN 60601-2-10: 2015 EN 60601-2-10: 2001+A1 EN 60601-2-10: 2001	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 IEC 60601-2-22 EN IEC 60601-2-22: 2020 EN 60601-2-22: 2013	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [*EMC sections only*]	
EN 60601-2-24 EN 60601-2-24: 2015 EN 60601-2-24: 1998	Medical electrical equipment - Part 2-24: Particular requirements for the safety of infusion pumps and controllers [*EMC sections only*]	
EN 60601-2-26: 2015	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [EMC Sections Only]	
EN 60601-2-34 EN 60601-2-34: 2014 EN 60601-2-34: 2000	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 EN 60601-2-37: 2008+A1 EN 60601-2-37: 2008	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 EN 60601-2-47: 2015 EN 60601-2-47: 2001	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 EN 60601-2-62: 2015	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 EN ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [*EMC sections only*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 60730-1 EN 60730-1: 2016+A1+A2 EN 60730-1: 2016+A1 EN 60730-1: 2016 EN 60730-1: 2011	Automatic electrical controls for household and similar use - Part 1: General requirements [*EMC Sections Only*]	
EN IEC 60730-2-9 EN IEC 60730-2-9: 2019+A1+A2 EN IEC 60730-2-9: 2019+A1 EN IEC 60730-2-9: 2019 EN 60730-2-9: 2010	Automatic electrical controls for household and similar use - Part 2: Particular requirements	
EN 60945 EN 60945: 2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results	
EN IEC 61000-3-2 EN IEC 61000-3-2: 2019+A1+A2 EN IEC 61000-3-2: 2019+A1 EN IEC 61000-3-2: 2019 EN 61000-3-2: 2014	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤16 A per phase)	
EN 61000-3-3 EN 61000-3-3: 2013+A1+A2 EN 61000-3-3: 2013+A1 EN 61000-3-3: 2013	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 EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test	
EN IEC 61000-4-3 EN IEC 61000-4-3: 2020 EN 61000-4-3: 2006+A1+A2	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EN 61000-4-4 EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test	
EN 61000-4-5 EN 61000-4-5: 2014 +A1 EN 61000-4-5: 2014	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test	
EN IEC 61000-4-6 EN IEC 61000-4-6: 2023 EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EN 61000-4-8 EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) - Part 4-8 - Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication	
EN IEC 61000-4-11 EN IEC 61000-4-11: 2020 EN 61000-4-11: 2004+A1 EN 61000-4-11: 2004	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 EN 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 61000-4-13 EN 61000-4-13: 2002 +A1+A2	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 61000-4-16 EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
EN 61000-4-29 EN 61000-4-29: 2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EN 61000-4-39 EN 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9 kHz to 26 MHz*]	
EN IEC 61000-6-1 EN IEC 61000-6-1: 2019 EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial, and light-industrial environments	
EN IEC 61000-6-2 EN IEC 61000-6-2: 2019 EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC) Generic standards - Immunity for industrial environments	
EN IEC 61000-6-3 EN IEC 61000-6-3: 2021 EN 61000-6-3: 2007+A1 EN 61000-6-3: 2007	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial, and light-industrial environments	
EN IEC 61000-6-4 EN IEC 61000-6-4: 2019 EN 61000-6-4: 2007+A1 EN 61000-6-4: 2007	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
EN IEC 61000-6-8 EN IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
EN 61131-2 EN 61131-2: 2007	Programmable controllers, Equipment requirements and tests [*EMC sections only*]	
EN IEC 61204-3 EN IEC 61204-3: 2018 EN 61204-3: 2001	Low voltage power supplies, DC output - Part 3: Electromagnetic Compatibility (EMC)	
EN IEC 61326-1 EN IEC 61326-1: 2021 EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	
EN IEC 61326-2-1 EN IEC 61326-2-1: 2021 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1x Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	
EN IEC 61326-2-2 EN IEC 61326-2-2: 2021 EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2x Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN IEC 61326-2-3 EN IEC 61326-2-3: 2021 EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3x Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EN IEC 61326-2-5 EN IEC 61326-2-5: 2021 EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5x Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1	
EN IEC 61326-2-6 EN IEC 61326-2-6: 2021 EN 61326-2-6: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. In vitro diagnostic (IVD) medical equipment	
EN 61326-3-1 EN 61326-3-1: 2017	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) - General industrial applications	
EN IEC 61326-3-2 EN IEC 61326-3-2: 2018 EN 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment	
EN 61547 EN 61547: 2023 EN 61547: 2009	Equipment for general lighting purposes - EMC immunity requirements	
EN 61850-3 EN 61850-3: 2014	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6*]	
EN IEC 61851-21-2 EN IEC 61851-21-2: 2021	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
EN IEC 61967-4 EN IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1 Ω/150Ω direct coupling method	
EN IEC 62040-2 EN IEC 62040-2: 2018 EN 62040-2: 2006+AC	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	
EN IEC 62061 EN IEC 62061: 2021+A1 EN IEC 62061: 2021 EN 62061: 2005+A1+A2	Safety of machinery – functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3*]	
EN 62233 EN 62233: 2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
EN IEC 62311 EN IEC 62311: 2020 EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
EN 62479 EN 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
EN 300 386 EN 300 386 v2.2.1 EN 300 386 v2.1.1 EN 300 386 v1.6.1	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 301 489-1 EN 301 489-1 v2.2.3 EN 301 489-1 v2.1.1 EN 301 489-1 v1.9.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	
EN 301 489-2 EN 301 489-2 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 2: Specific conditions for radio paging equipment	
EN 301 489-3 EN 301 489-3 v2.3.2 EN 301 489-3 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	
EN 301 489-4 EN 301 489-4 v3.3.1 EN 301 489-4 v3.2.1 EN 301 489-4 v3.1.1 EN 301 489-4 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 4: Specific conditions for fixed radio links and ancillary equipment	
EN 301 489-5 EN 301 489-5 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	
EN 301 489-6 EN 301 489-6 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	
EN 301 489-7 EN 301 489-7 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	
EN 301 489-8 EN 301 489-8 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 8: Specific conditions for GSM base stations	
EN 301 489-9 EN 301 489-9 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	
EN 301 489-10 EN 301 489-10 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 10: Specific conditions for First (CT1 and CT1+) and Second-Generation Cordless Telephone (CT2) equipment	
EN 301 489-11 EN 301 489-11 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 11: Specific conditions for terrestrial sound broadcasting service transmitters	
EN 301 489-12 EN 301 489-12 v3.2.1 EN 301 489-12 v3.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)	
EN 301 489-13 EN 301 489-13 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	
EN 301 489-14 EN 301 489-14 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 301 489-15 EN 301 489-15 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 15: Specific conditions for commercially available amateur radio equipment	
EN 301 489-16 EN 301 489-16 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable	
EN 301 489-17 EN 301 489-17 v3.2.4 EN 301 489-17 v3.1.1 EN 301 489-17 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 17: Specific conditions for Broadband Data Transmission Systems	
EN 301 489-18 EN 301 489-18 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	
EN 301 489-19 EN 301 489-19 v2.2.1 EN 301 489-19 v2.1.1 EN 301 489-19 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	
EN 301 489-20 EN 301 489-20 v2.2.1 EN 301 489-20 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	
EN 301 489-22 EN 301 489-22 v2.1.1 EN 301 489-22 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 22: Specific conditions for ground based aeronautical mobile and fixed radio equipment; Harmonised Standard for ElectroMagnetic Compatibility	
EN 301 489-23 EN 301 489-23 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	
EN 301 489-24 EN 301 489-24 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 24:Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EN 301 489-25 EN 301 489-25 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	
EN 301 489-26 EN 301 489-26 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 26: Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment	
EN 301 489-27 EN 301 489-27 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 to 405 MHz bands	
EN 301 489-28 EN 301 489-28 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 28: Specific conditions for wireless digital video links	
EN 301 489-29 EN 301 489-29 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 29: Specific conditions for Medical Data Service Devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EN 301 489-31 EN 301 489-31 v2.2.1 EN 301 489-31 v2.1.1 EN 301 489-31 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P	
EN 301 489-33 EN 301 489-33 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 33: Specific conditions for Ultra-Wide Band (UWB) communications devices	
EN 301 489-34 EN 301 489-34 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	
EN 301 489-35 EN 301 489-35 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands	
EN 301 489-50 EN 301 489-50 v2.3.1 EN 301 489-50 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	
EN 301 489-51 EN 301 489-51 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz;	
EN 301 489-52 EN 301 489-52 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment	
EN 301 489-53 EN 301 489-53 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment	
EN 301 489-54 EN 301 489-54 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars	
DNV-CG-0339 DNV-CG-0339: 2021 DNVGL-CG-0339: 2019 DNVGL-CG-0339: 2016	Class Guideline: Environmental test specification for electrical, electronic and programmable equipment and systems [*Sections 3.4, 3.5, 3.12, 3.13, & 3.14*]	
IACS UR E10 IACS UR E10 r10: 2024 IACS UR E10 r09: 2023 IACS UR E10 r08: 2021	Requirements concerning Electrical and Electronic Installations: Test Specification for Type Approval [*Sections 3, 4, 9, 10, 13, 14, 15, 16, 17, 18, 19, & 20*]	
EU DIRECTIVES		
EU Regulation 167/2013 EU Regulation 2015/208 EU Regulation 2018/829	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles	
EU Regulation 2018/858	EU Regulation on the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	
EU Regulation 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
EU Regulation 2019/2144	EU Regulation on type-approval requirements for motor vehicles and their trailers, and systems, components and separate technical units intended for such vehicles, as regards their general safety and the protection of vehicle occupants and vulnerable road user	
UNITED NATIONS		
UN/ECE Addendum 9 Regulation 10 Rev 6+A1+A2 Rev 6+A1 Rev 6 Rev 5+A1+A2 Rev 5+A1 Rev 5	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 [*Sections 7, 8 , 9, 10, 17, 18, 19, 20, 21, 22*]	
IMDA SINGAPORE		
IMDA TS AR: 2016	Technical specification for Amateur Radio Equipment	
IMDA TS CBS: 2023	Technical specification for Cellular Base Station and Repeater System	
IMDA TS CT-CTS: 2016	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [*excluding dect and phs*]	
IMDA TS GMPCS: 2016	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals	
IMDA TS LMR: 2016	Technical specification for Land Mobile Radio Equipment	
IMDA TS SRD: 2023	Technical specification for Short Range Devices (SRD)	
IMDA TS UWB: 2016	Technical specification for Ultra-Wideband (UWB) Devices	
IMDA TS WBA: 2016	Technical specification for Wireless Broadband Access (WBA) equipment	
INTERNATIONAL		
CISPR 16-2-1 CISPR 16-2-1: 2014 +A1 CISPR 16-2-1: 2014 CISPR 16-2-1: 2008+A1+A2 CISPR 16-2-1: 2008+A1 CISPR 16-2-1: 2008 CISPR 16-2-1: 2003+A1 CISPR 16-2-1: 2003	Specification for radio disturbance and immunity measuring apparatus and methods — Part 2-1: Methods of measurement of disturbances and immunity — Conducted disturbance measurements	
CISPR 16-2-2 CISPR 16-2-2: 2010 CISPR 16-2-2: 2003+A1+A2 CISPR 16-2-2: 2003+A1 CISPR 16-2-2: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power	

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CISPR 16-2-3 CISPR 16-2-3: 2016+A1+A2 CISPR 16-2-3: 2016+A1 CISPR 16-2-3: 2016 CISPR 16-2-3: 2010+A1+A2 CISPR 16-2-3: 2010+A1 CISPR 16-2-3: 2010 CISPR 16-2-3: 2003+A1+A2 CISPR 16-2-3: 2003+A1 CISPR 16-2-3: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	
IACS UR E10 IACS UR E10 r10: 2023 IACS UR E10 r09: 2023 IACS UR E10 r08: 2021	Requirements concerning Electrical and Electronic Installations: Test Specification for Type Approval [*Sections 3, 4, 9, 10, 13, 14, 15, 16, 17, 18, 19, & 20*]	
IEC 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
IEC 60533 IEC 60533: 2015 IEC 60533: 1999	Electromagnetic compatibility of electrical and electronic installations in ships	
IEC 60601-1-2 IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2014 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 IEC 60601-2-2: 2017 IEC 60601-2-2: 2009	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 IEC 60601-2-22: 2019 IEC 60601-2-22: 2007+A1	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: 2012	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*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
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]	
ISO 80601-2-55 ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [*EMC sections only*]	
IEC 60730-1	Automatic electrical controls for household and similar use - Part 1 General requirements [*EMC Sections Only*]	
IEC 61000-6-1 IEC 61000-6-1: 2016	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-2 IEC 61000-6-2: 2016	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments	
IEC 61000-6-3 IEC 61000-6-3: 2020 IEC 61000-6-3: 2006+A1	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments	
IEC 61000-6-4 IEC 61000-6-4: 2018 IEC 61000-6-4: 2006+A1	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-8 IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
IEC 61326-1 IEC 61326-1: 2020 IEC 61326-1: 2012 IEC 61326-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	
IEC 61326-2-1 IEC 61326-2-1: 2020 IEC 61326-2-1: 2012 IEC 61326-2-1: 2005	Electrical equipment for measurement, control and laboratory use – EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	
IEC 61326-2-2 IEC 61326-2-2: 2020 IEC 61326-2-2: 2012 IEC 61326-2-2: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
IEC 61326-2-3 IEC 61326-2-3: 2020 IEC 61326-2-3: 2012 IEC 61326-2-3: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
IEC 61326-2-5 IEC 61326-2-5: 2020 IEC 61326-2-5: 2012 IEC 61326-2-5: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1.	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
IEC 61326-2-6 IEC 61326-2-6: 2020 IEC 61326-2-6: 2012 IEC 61326-2-6: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. - Test configurations, operational conditions and performance criteria In vitro diagnostic (IVD) medical equipment	
IEC 61326-3-1 IEC 61326-3-1: 2017 IEC 61326-3-1: 2008	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) - General industrial applications.	
IEC 61326-3-2 IEC 61326-3-2: 2017 IEC 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment	
IEC 61547 IEC 61547: 2020	Equipment for general lighting purposes - EMC immunity requirements	
IEC 61850-3 IEC 61850-3: 2013	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6*]	
IEC 61851-21-2 IEC 61851-21-2: 2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
IEC 61967-4 IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1Ω / 150Ω direct coupling method	
IEC 62040-2 IEC 62040-2: 2016	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
IEC 62061 IEC 62061: 2021+A1 IEC 62061: 2021	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3*]	
ISO 22200: 2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity	
JAPAN		
JIS C 61326-1	Electrical equipment for measurement, control and laboratory use - Electromagnetic compatibility (EMC) requirements - Part 1: General requirements	
VCCI-CISPR 32 VCCI-CISPR 32: 2016	Electromagnetic compatibility of multimedia equipment – Emission Requirements	
KOREA, REPUBLIC OF		
KS C 9811	CISPR 11: 2015 +A1 [*3m only*]	
KS C 9814-1	CISPR 14-1: 2020 [3m only, excluding clicks]	
KS C 9814-2	CISPR 14-2: 2020	
KS C 9832	CISPR 32: 2015 [*3m only*]	
KS C 9835	CISPR 35: 2016	
KS B 6945	EN 12016: 2013	
KS X 3124	EN 301 489-01 v2.1.1 [*8.2: 3m only*]	
KS X 3137	EN 301 489-02 v1.3.1 [*7.1: 3m only*]	
KS X 3125	EN 301 489-03 v1.6.1 [*7.1: 3m only*]	
KS X 3127	EN 301 489-05 v1.3.1 [*7.1: 3m only*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
KS X 3128	EN 301 489-06 v1.4.1 [*7.1: 3m only*]	
KS X 3129	EN 301 489-52 v1.1.0 [*7.1.1, 7.2.1: 3m only*]	
KS X 3130	EN 301 489-09 v1.4.1 [*7.1: 3m only*]	
KS X 3131	EN 301 489-13 v1.2.1 [*7.1: 3m only*]	
KS X 3136	EN 301 489-15 v2.1.1 [*7.1: 3m only*]	
KS X 3126	EN 301 489-17 v2.1.1 [*7.1: 3m only*]	
KS X 3132	EN 301 489-18 v1.3.1 [*7.1: 3m only*]	
KS X 3139	EN 301 489-20 v1.2.1 [*7.1: 3m only*]	
KS X 3134	EN 301 489-27 v2.1.1 [*7.1: 3m only*]	
KS X 3138	EN 301 489-32 v1.1.1 [*7.1: 3m only*]	
KS X 3135	EN 301 489-50 v2.1.1 [*7.1: 3m only*]	
KS C IEC 60601-1-2 KS C IEC 60601-1-2: 2012	IEC 60601-1-2: 2014+A1 [*7: 3m only*] IEC 60601-1-2: 2007 [*6.1: 3m only*]	
KS X 3140	IEC 60945: 2002; IEC 60533: 1999 [*3m only*]	
KN 60945/60533	IEC 60945: 2002; IEC 60533: 1999 [*3m only, excluding 4*]	
KS C 9610-6-1	IEC 61000-6-1: 2016	
KS C 9610-6-2	IEC 61000-6-2: 2016	
KS C 9610-6-3	IEC 61000-6-3: 2006+A1 [*3m only*]	
KS C 9610-6-4	IEC 61000-6-4: 2018 [*3m only*]	
KS C 9547	IEC 61547: 2009	
TAIWAN / CHINESE TAIPEI		
LP0002 LP0002:2024	Low-power Radio-frequency Devices Technical Regulations [*excluding SAR*]	
RTTE01 RTTE01: 2020	2.4GHz Radio-frequency Telecommunications terminal equipment technical specification	
VIETNAM		
TCVN 7189: 2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
TCVN 7317: 2003	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	
UNITED STATES		
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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT
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 RESNA WC-2: 2009	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [*Section 21 only*]	
Telcordia GR-1089-CORE 2017	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. [*Sections: 2, 3, & 4*]	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**FREMONT2**
Core Measurement Methods:		
RADIATED / CONDUCTED EMISSIONS		
IEC 61000-3-2 IEC 61000-3-2: 2018+A1+A2 IEC 61000-3-2: 2018+A1 IEC 61000-3-2: 2018	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
IEC 61000-3-3 IEC 61000-3-3: 2013+A1+A2 IEC 61000-3-3: 2013+A1 IEC 61000-3-3: 2013	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	
IMMUNITY		
CISPR 14-2 CISPR 14-2: 2020 CISPR 14-2: 2015 CISPR 14-2:1997+A1+A2 CISPR 14-2:1997+A1 CISPR 14-2:1997	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2: Immunity-Product Family Standard	
CISPR 24: 2010+A1 CISPR 24: 2010 CISPR 24: 1997+A1+A2 CISPR 24: 1997+A1 CISPR 24: 1997	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
CISPR 35 CISPR 35: 2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
ENV 50204: 1996	Radiated electromagnetic field from digital radio telephones – immunity test (900 MHz and 5 MHz Keyed Carrier)	
EN 61000-4-2 EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test	
EN IEC 61000-4-3 EN IEC 61000-4-3: 2020 EN 61000-4-3: 2006+A1+A2	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EN 61000-4-4 EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test	
EN 61000-4-5 EN 61000-4-5: 2014 +A1 EN 61000-4-5: 2014	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test	
EN IEC 61000-4-6 EN IEC 61000-4-6: 2023 EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 61000-4-8 EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) - Part 4-8 - Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication	
EN IEC 61000-4-11 EN IEC 61000-4-11: 2020 EN 61000-4-11: 2004+A1 EN 61000-4-11: 2004	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 EN 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	
EN 61000-4-13 EN 61000-4-13: 2002 +A1+A2	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 61000-4-16 EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
EN 61000-4-29 EN 61000-4-29: 2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EN 61000-4-39 EN 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9 kHz to 26 MHz*]	
AUTOMOTIVE		
CISPR 12 CISPR 12: 2007+A1 CISPR 12: 2007	Vehicles, boats, and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of off-board receivers	
CISPR 25 CISPR 25: 2021 CISPR 25: 2016 CISPR 25: 2008 CISPR 25: 2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement [2021: *excluding sections 5 and 6.6*] [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 36 CISPR 36: 2020+A1 CISPR 36: 2020	Electric and hybrid electric road vehicles – Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers below 30 MHz	
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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
ISO 10605 ISO 10605: 2023 ISO 10605: 2008+A1 ISO 10605: 2008 ISO 10605: 2001	Road vehicles - Test methods for electrical disturbances from electrostatic discharge	
ISO 11451-2 ISO 11451-2: 2015	Road vehicles — Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2: Off-vehicle radiation sources	
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: 2020 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 ISO 11452-5: 2002	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Stripline	
ISO 11452-7 ISO 11452-7: 2003+A1 ISO 11452-7: 2003	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 11452-9 ISO 11452-9: 2021 ISO 11452-9: 2012	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 9: Portable transmitters	
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 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 [*Sections 4.4, 4.7, 4.8, 4.9*]	
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 [*Sections 5.5, 5.8, 5.9, 5.10*]	
ISO 14982: 1998	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria	
ISO 16750-2 ISO 16750-2: 2023 ISO 16750-2: 2012 ISO 16750-2: 2010	Road vehicles -- Environmental conditions and testing for electrical and electronic equipment -- Part 2: Electrical loads [*excluding 4.11 & 4.12*]	
SAE J1113-2: 2010 SAE J1113-2: 2004	Electromagnetic compatibility measurement procedures and limits for vehicle components (except aircraft) - conducted immunity, (15 Hz to 250 kHz) - all leads	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
SAE J1113-4 SAE J1113-4: 2020 SAE J1113-4: 2014 SAE J1113-4: 2004	Immunity to radiated electromagnetic fields - Bulk current injection (BCI) method	
SAE J1113-11 SAE J1113-11: 2023 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: 2022 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: 2013 SAE J1113-21: 2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay	
SAE J1113-22: 2010 SAE J1113-22: 2003	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields	
SAE J1113-26 SAE J1113-26: 2021 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: 2006 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 SAE J1752-3: 2017	(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*]	
ENERGY GRID / EV		
IEEE 1613: 2009	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations	
UL 991 UL 991: 2010	Tests for Safety-Related Controls Employing Solid-State Devices [*Sections: 11, 13, 14.3, 14.7, 14.8, 14.9, 14.10, 15*]	
UL 2202 UL 2202: 2022	Standard for Safety, Electric Vehicle (EV) Charging System Equipment [*Sections: 37.2(c), 37.2(d)*]	
UL 2231-2: 2016	Standard for Safety, Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits [*Sections: 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 24.10*]	
UL 9540: 2020	Standard for Safety, Energy Storage Systems and Equipment [*Section: 32*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
MARITIME		
DNV-CG-0339 DNV-CG-0339: 2021 DNVGL-CG-0339: 2019 DNVGL-CG-0339: 2016	Class Guideline: Environmental test specification for electrical, electronic and programmable equipment and systems [*Sections 3.4, 3.5, 3.12, 3.13, & 3.14; excluding 3.14.11, 3.14.12*]	
MILITARY / AEROSPACE		
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*]	
MIL-STD-704F MIL-STD-704E MIL-STD-704D MIL-STD-704C MIL-STD-704B MIL-STD-704A MIL-STD-704	Aircraft Electrical Power Characteristics	
MIL-HDBK-704-2	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 400Hz, 115VAC	
MIL-HDBK-704-3	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, 400Hz, 115VAC	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**FREMONT2**
MIL-HDBK-704-4	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, Variable Frequency, 115VAC	
MIL-HDBK-704-5	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, Variable Freuqency, 115VAC	
MIL-HDBK-704-6	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 60Hz, 115VAC	
MIL-HDBK-704-7	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 270VDC	
MIL-HDBK-704-8	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 28VDC	
RTCA/DO-160C	Environmental conditions and test procedures of airborne equipment [*Sections: 15, 16, 17, 18, 19, 20, 21, & 22*]	
RTCA/DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [*Sections: 15, 16, 17, 18, 19, 20, 21, 22, & 25*]	
RTCA/DO-380	Environmental conditions and test procedures for ground-based equipment [*Sections: 16, 19, 20, 21, 22, & 25*]	
RF EXPOSURE		
IEC 62233 IEC 62233: 2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
IEC 62311 IEC 62311: 2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
IEC 62479 IEC 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
RSS-102	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) [*MPE Calculations, RF Exposure Measurement and Nerve Stimulation Measurement Only*]	
RSS-102.NS.MEAS	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 [*excluding 5.1*]	
PRODUCT FAMILY STANDARDS:		
EUROPEAN NORM		
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 EN 12184: 2022 EN 12184: 2014	Electrically Powered Wheelchairs, Scooters And Their Chargers - Requirements And Test Methods [*Section 12.1; ISO 7176-21 Section 10*]	
EN 13309: 2010	Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply [*Sections 4.4, 4.7, 4.8, 4.9*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 13763-26 EN 13763-26: 2004	Explosives for civil uses - Detonators and relays - Part 26 [*Excluding A.4.8*]	
EN ISO 13766-1 EN ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions [*Sections 4.4, 4.7, 4.8, 4.9*]	
EN ISO 13766-2 EN 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	
EN ISO 14982 EN ISO 14982: 2009	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria [*Sections 6.3, 6.6, 6.7, 6.8*]	
EN 15194 EN 15194: 2017+A1 EN 15194: 2017 EN 15194: 2009+A1 EN 15194: 2009	Cycles – Electrically power assisted cycles – EPAC Bicycles [*Section 4.2.15.2*]	
EN 50065-2-1 EN 50065-2-1: 2003+A1 EN 50065-2-1: 2003	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 50065-2-2 EN 50065-2-2: 2003+A1 EN 50065-2-2: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148,5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 148,5) kHz	
EN 50065-2-3 EN 50065-2-3: 2024 EN 50065-2-3: 2003+A1 EN 50065-2-3: 2003	Signaling on low-voltage electrical installations in the frequency range (3 kHz to 148.5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (3 kHz to 95) kHz	
EN 50083-2 EN 50083-2: 2012+A1	Cable networks for television signals, sound signals and interactive services – Part 2 Electromagnetic compatibility for equipment [*Sections 4.4, 4.6, 4.7, 4.8, 4.9*]	
EN 50121-1 EN 50121-1: 2017 EN 50121-1: 2006+AC	Railway applications – Electromagnetic compatibility – Part 1: General	
EN 50121-3-2 EN 50121-3-2: 2016+A1 EN 50121-3-2: 2016	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus [*Section 8*]	
EN 50121-4 EN 50121-4: 2016+A1 EN 50121-4: 2016	Railway applications – Electromagnetic compatibility – Part 4: Emission and immunity of the signaling and telecommunications apparatus [*Section 6*]	
EN 50130-4 EN 50130-4: 2011+A1 EN 50130-4: 2011	Alarm systems – Part 4: Electromagnetic compatibility – Product family standard – Immunity requirements for components of fire, intruder and social alarm systems	
ENV 50204: 1996	Radiated electromagnetic field from digital radio telephones – immunity test (900 MHz and 5 MHz Keyed Carrier)	
EN 50270 EN 50270: 2015+AC	Electromagnetic compatibility – Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen [*Section 5*]	
EN 50370-2 EN 50370-2: 2003	Electromagnetic Compatibility (EMC) – Product family standard for machine tools – Part 2: Immunity	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 50498 EN 50498: 2010	Electromagnetic Compatibility (EMC) – Product family standard for aftermarket electronic equipment in vehicles [*Section 7.4*]	
EN IEC 55014-2 EN IEC 55014-1: 2021 EN 55014-2: 2015 EN 55014-2: 1997+A1+A2+AC EN 55014-2: 1997+A1+AC EN 55014-2: 1997	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	
EN 55024: 2010+A1 EN 55024: 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EN 55035 EN 55035: 2017+A11 EN 55035: 2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EN 55103-2: 2009	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: 2015+A1 EN 60601-1-2: 2015 EN 60601-1-2: 2007	Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests [*Section 8*]	
EN IEC 60601-2-2 EN IEC 60601-2-2: 2018+A1 EN IEC 60601-2-2: 2018 EN 60601-2-2: 2009+A11 EN 60601-2-2: 2009	Medical electrical equipment - Part 2-2: Particular requirements for the safety of high frequency surgical equipment [*Sections 201.17, 202.8; EN 60601-1-2: 2015 section 8*]	
EN 60601-2-4 EN 60601-2-4: 2011+A1 EN 60601-2-4: 2011 EN 60601-2-4: 2003	Medical electrical equipment - Part 2-4: Particular requirements for the safety of cardiac defibrillators [*Sections 201.17, 202.6.2; EN 60601-1-2: 2015 section 8*]	
EN 60601-2-10 EN 60601-2-10: 2015+A1+A2 EN 60601-2-10: 2015+A1 EN 60601-2-10: 2015 EN 60601-2-10: 2001+A1 EN 60601-2-10: 2001	Medical electrical equipment - Part 2-10: Particular requirements for the safety of nerve and muscle stimulators [*Section 201.17, 202.8; EN 60601-1-2 section 8*]	
EN 60601-2-12: 2006	Medical electrical equipment - Part 2-12: Particular requirements for the safety of lung ventilators - Critical care ventilators [*Section 36; EN 60601-1-2: 2002 section 36.202*]	
EN IEC 60601-2-22 EN IEC 60601-2-22: 2020 EN 60601-2-22: 2013	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [S*ection 201.17; EN 60601-1-2 section 8*]	
EN 60601-2-24 EN 60601-2-24: 2015 EN 60601-2-24: 1998	Medical electrical equipment - Part 2-24: Particular requirements for the safety of infusion pumps and controllers [S*ections 201.17, 202.6.2; EN 60601-1-2: 2007 section 6.2*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 60601-2-26: 2015	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [*Section 201.17, 202.6.2; EN 60601-1-2: 2007 section 6.2*]	
EN 60601-2-34 EN 60601-2-34: 2014 EN 60601-2-34: 2000	Medical electrical equipment - Part 2-34: Particular requirements for the safety, including essential performance, of invasive blood pressure monitoring equipment [S*ections 201.17, 202.6.2; EN 60601-1-2: 2007 section 6.2*]	
EN 60601-2-37 EN 60601-2-37: 2008+A1 EN 60601-2-37: 2008	Medical electrical equipment - Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [*Sections 201.17, 202.6.2; EN 60601-1-2: 2015 section 8*]	
EN 60601-2-47 EN 60601-2-47: 2015 EN 60601-2-47: 2001	Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems [S*ections 201.17, 202.6.2; EN 60601-1-2: 2007 section 6.2*]	
EN 60601-2-62 EN 60601-2-62: 2015	Medical electrical equipment - Part 2-62 Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment [S*ections 201.17, 202.6.2; EN 60601-1-2: 2007 section 6.2*]	
EN ISO 80601-2-55 EN ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [S*ections 201.17, 202.8; EN 60601-1-2:2015 section 8*]	
EN 60730-1 EN 60730-1: 2016+A1+A2 EN 60730-1: 2016+A1 EN 60730-1: 2016 EN 60730-1: 2011	Automatic electrical controls for household and similar use - Part 1: General requirements [*Section 26*]	
EN IEC 60730-2-9 EN IEC 60730-2-9: 2019+A1+A2 EN IEC 60730-2-9: 2019+A1 EN IEC 60730-2-9: 2019 EN 60730-2-9: 2010	Automatic electrical controls for household and similar use - Part 2: Particular requirements [*Section 26*]	
EN 60945 EN 60945: 2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [*Section 10*]	
EN IEC 61000-3-2 EN IEC 61000-3-2: 2019+A1+A2 EN IEC 61000-3-2: 2019+A1 EN IEC 61000-3-2: 2019 EN 61000-3-2: 2014	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current ≤16 A per phase)	
EN 61000-3-3 EN 61000-3-3: 2013+A1+A2 EN 61000-3-3: 2013+A1 EN 61000-3-3: 2013	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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN IEC 61000-6-1 EN IEC 61000-6-1: 2019 EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial, and light-industrial environments	
EN IEC 61000-6-2 EN IEC 61000-6-2: 2019 EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC) Generic standards - Immunity for industrial environments	
EN 61131-2 EN 61131-2: 2007	Programmable controllers, Equipment requirements and tests [*Section 8.3*]	
EN IEC 61204-3 EN IEC 61204-3: 2018 EN 61204-3: 2001	Low voltage power supplies, DC output - Part 3: Electromagnetic Compatibility (EMC) [*Section 7*]	
EN IEC 61326-1 EN IEC 61326-1: 2021 EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [*Section 6*]	
EN IEC 61326-2-1 EN IEC 61326-2-1: 2021 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1x Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications [*Section 6*]	
EN IEC 61326-2-2 EN IEC 61326-2-2: 2021 EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2x Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems [*Section 6*]	
EN IEC 61326-2-3 EN IEC 61326-2-3: 2021 EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3x Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning [*Section 6*]	
EN IEC 61326-2-5 EN IEC 61326-2-5: 2021 EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5x Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1 [*Section 6*]	
EN IEC 61326-2-6 EN IEC 61326-2-6: 2021 EN 61326-2-6: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. In vitro diagnostic (IVD) medical equipment [*Section 6*]	
EN 61326-3-1 EN 61326-3-1: 2017	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) - General industrial applications [*Section 7*]	
EN IEC 61326-3-2 EN IEC 61326-3-2: 2018 EN 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment [*Section 7*]	
EN IEC 61547 EN IEC 61547: 2023 EN 61547: 2009	Equipment for general lighting purposes - EMC immunity requirements	
EN 61850-3 EN 61850-3: 2014	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN IEC 61851-21-2 EN IEC 61851-21-2: 2021	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems [*Section 5*]	
EN IEC 61967-4 EN IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1 Ω/150Ω direct coupling method	
EN IEC 62040-2 EN IEC 62040-2: 2018 EN 62040-2: 2006+AC	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements [*Section 6*]	
EN IEC 62061 EN IEC 62061: 2021+A1 EN IEC 62061: 2021 EN 62061: 2005+A1+A2	Safety of machinery – functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6,* 2005*: Section 6.4.3*]	
EN 62233 EN 62233: 2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
EN IEC 62311 EN IEC 62311: 2020 EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
EN 301 489-1 EN 301 489-1 v2.2.3 EN 301 489-1 v2.1.1 EN 301 489-1 v1.9.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements [*Sections 7.2, 9*]	
EN 301 489-2 EN 301 489-2 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 2: Specific conditions for radio paging equipment [*Sections 7.2, 9*]	
EN 301 489-3 EN 301 489-3 v2.3.2 EN 301 489-3 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz [*Sections 7.2, 9*]	
EN 301 489-4 EN 301 489-4 v3.3.1 EN 301 489-4 v3.2.1 EN 301 489-4 v3.1.1 EN 301 489-4 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 4: Specific conditions for fixed radio links and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-5 EN 301 489-5 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA) [*Sections 7.2, 9*]	
EN 301 489-6 EN 301 489-6 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment [*Sections 7.2, 9*]	
EN 301 489-7 EN 301 489-7 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS) [*Sections 7.2, 9*]	
EN 301 489-8 EN 301 489-8 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 8: Specific conditions for GSM base stations [*Sections 7.2, 9*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 301 489-9 EN 301 489-9 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices [*Sections 7.2, 9*]	
EN 301 489-10 EN 301 489-10 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 10: Specific conditions for First (CT1 and CT1+) and Second-Generation Cordless Telephone (CT2) equipment [*Sections 7.2, 9*]	
EN 301 489-11 EN 301 489-11 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 11: Specific conditions for terrestrial sound broadcasting service transmitters [*Sections 7.2, 9*]	
EN 301 489-12 EN 301 489-12 v3.2.1 EN 301 489-12 v3.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS) [*Sections 7.2, 9*]	
EN 301 489-13 EN 301 489-13 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech) [*Sections 7.2, 9*]	
EN 301 489-14 EN 301 489-14 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters [*Sections 7.2, 9*]	
EN 301 489-15 EN 301 489-15 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 15: Specific conditions for commercially available amateur radio equipment [*Sections 7.2, 9*]	
EN 301 489-16 EN 301 489-16 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable [*Sections 7.2, 9*]	
EN 301 489-17 EN 301 489-17 v3.2.4 EN 301 489-17 v3.1.1 EN 301 489-17 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 17: Specific conditions for Broadband Data Transmission Systems [*Sections 7.2, 9*]	
EN 301 489-18 EN 301 489-18 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment [*Sections 7.2, 9*]	
EN 301 489-19 EN 301 489-19 v2.2.1 EN 301 489-19 v2.1.1 EN 301 489-19 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data [*Sections 7.2, 9*]	
EN 301 489-20 EN 301 489-20 v2.2.1 EN 301 489-20 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS) [*Sections 7.2, 9*]	
EN 301 489-22 EN 301 489-22 v2.1.1 EN 301 489-22 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 22: Specific conditions for ground based aeronautical mobile and fixed radio equipment; Harmonised Standard for ElectroMagnetic Compatibility [*Sections 7.2, 9*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 301 489-23 EN 301 489-23 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-24 EN 301 489-24 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-25 EN 301 489-25 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-26 EN 301 489-26 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 26: Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-27 EN 301 489-27 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 to 405 MHz bands [*Sections 7.2, 9*]	
EN 301 489-28 EN 301 489-28 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 28: Specific conditions for wireless digital video links [*Sections 7.2, 9*]	
EN 301 489-29 EN 301 489-29 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 29: Specific conditions for Medical Data Service Devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands [*Sections 7.2, 9*]	
EN 301 489-31 EN 301 489-31 v2.2.1 EN 301 489-31 v2.1.1 EN 301 489-31 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) [*Sections 7.2, 9*]	
EN 301 489-33 EN 301 489-33 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 33: Specific conditions for Ultra-Wide Band (UWB) communications devices [*Sections 7.2, 9*]	
EN 301 489-34 EN 301 489-34 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 34: Specific conditions for External Power Supply (EPS) for mobile phones [*Sections 7.2, 9*]	
EN 301 489-35 EN 301 489-35 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands [*Sections 7.2, 9*]	
EN 301 489-50 EN 301 489-50 v2.3.1 EN 301 489-50 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-51 EN 301 489-51 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz [*Sections 7.2, 9*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
EN 301 489-52 EN 301 489-52 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-53 EN 301 489-53 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment [*Sections 7.2, 9*]	
EN 301 489-54 EN 301 489-54 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars [*Sections 7.2, 9*]	
EU DIRECTIVES		
EU Regulation 167/2013 EU Regulation 2015/208 EU Regulation 2018/829	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles	
EU Regulation 2018/858	EU Regulation on the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	
EU Regulation 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles	
EU Regulation 2019/2144	EU Regulation on type-approval requirements for motor vehicles and their trailers, and systems, components and separate technical units intended for such vehicles, as regards their general safety and the protection of vehicle occupants and vulnerable road user	
UNITED NATIONS		
UN/ECE Addendum 9 Regulation 10 Rev 6+A1+A2 Rev 6+A1 Rev 6 Rev 5+A1+A2 Rev 5+A1 Rev 5	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 [*Annexes 4 through 22*]	
INTERNATIONAL		
IACS UR E10 IACS UR E10 r10: 2024 IACS UR E10 r09: 2023 IACS UR E10 r08: 2021	Requirements concerning Electrical and Electronic Installations: Test Specification for Type Approval [*Sections 3, 4, 9, 10, 13, 14, 15, 16, 17, 18*]	
IEC 60533 IEC 60533: 2015 IEC 60533: 1999	Electromagnetic compatibility of electrical and electronic installations in ships [*Section 7*]	
IEC 60601-1-2 IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2014 IEC 60601-1-2: 2007	Medical electrical equipment - Part 1: General requirements for safety 2 - Collateral standard - Electromagnetic compatibility - Requirements and tests [*Section 8*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
IEC 60601-2-2 IEC 60601-2-2: 2017 IEC 60601-2-2: 2009	Medical electrical equipment - Part 2-2: Particular requirements for the safety of high frequency surgical equipment [*Sections 201.17, 202.8; IEC 60601-1-2: 2014 section 8*]	
IEC 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [*Sections 201.17, 202.6.2; IEC 60601-1-2: 2014 section 8*]	
IEC 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the safety of nerve and muscle stimulators [*Section 201.17, 202.8; IEC 60601-1-2 section 8*]	
IEC 60601-2-12: 2001	Medical electrical equipment - Part 2-12 Particular requirements for the safety of lung ventilators - Critical care ventilators [*Section 36; IEC 60601-1-2: 2001 section 36.202*]	
IEC 60601-2-22 IEC 60601-2-22: 2019 IEC 60601-2-22: 2007+A1	Medical electrical equipment - Part 2-22: Particular requirements for the safety of diagnostic and therapeutic laser equipment [S*ection 201.17; IEC 60601-1-2 section 8*]	
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of infusion pumps and controllers [S*ections 201.17, 202.6.2; IEC 60601-1-2: 2007 section 6.2*]	
IEC 60601-2-26: 2012	Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [*Section 201.17, 202.6.2; IEC 60601-1-2: 2007 section 6.2*]	
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 [S*ections 201.17, 202.6.2; IEC 60601-1-2: 2007 section 6.2*]	
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 [*Sections 201.17, 202.6.2; IEC 60601-1-2: 2014 section 8*]	
IEC 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the safety, including essential performance, of ambulatory electrocardiographic systems. [S*ections 201.17, 202.6.2; IEC 60601-1-2: 2007 section 6.2*]	
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 [S*ections 201.17, 202.6.2; IEC 60601-1-2: 2007 section 6.2*]	
ISO 80601-2-55 ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [S*ections 201.17, 202.8; IEC 60601-1-2:2014 section 8*]	
IEC 60730-1	Automatic electrical controls for household and similar use - Part 1 General requirements [*Section 26*]	
IEC 60730-2-9	Automatic electrical controls for household and similar use – Part 2: Particular requirements [*Section 26*]	
IEC 60945 IEC 60945: 2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results [*Section 10*]	
IEC 61000-6-1 IEC 61000-6-1: 2016	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
IEC 61000-6-2 IEC 61000-6-2: 2016	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments	
IEC 61326-1 IEC 61326-1: 2020 IEC 61326-1: 2012 IEC 61326-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [*Section 6*]	
IEC 61326-2-1 IEC 61326-2-1: 2020 IEC 61326-2-1: 2012 IEC 61326-2-1: 2005	Electrical equipment for measurement, control and laboratory use – EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications [*Section 6*]	
IEC 61326-2-2 IEC 61326-2-2: 2020 IEC 61326-2-2: 2012 IEC 61326-2-2: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems [*Section 6*]	
IEC 61326-2-3 IEC 61326-2-3: 2020 IEC 61326-2-3: 2012 IEC 61326-2-3: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
IEC 61326-2-5 IEC 61326-2-5: 2020 IEC 61326-2-5: 2012 IEC 61326-2-5: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1. [*Section 6*]	
IEC 61326-2-6 IEC 61326-2-6: 2020 IEC 61326-2-6: 2012 IEC 61326-2-6: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. - Test configurations, operational conditions and performance criteria In vitro diagnostic (IVD) medical equipment [*Section 6*]	
IEC 61326-3-1 IEC 61326-3-1: 2017 IEC 61326-3-1: 2008	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) - General industrial applications. [*Section 7*]	
IEC 61326-3-2 IEC 61326-3-2: 2017 IEC 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment [*Section 7*]	
IEC 61547 IEC 61547: 2020	Equipment for general lighting purposes - EMC immunity requirements	
IEC 61850-3 IEC 61850-3: 2013	Communication Networks and Systems in Substations [*Section 6.7.3, excluding tests 10.3, 11.4, 12.6*]	
IEC 61851-21-2 IEC 61851-21-2: 2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems [*Section 5*]	
IEC 61967-4 IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1Ω / 150Ω direct coupling method	
IEC 62040-2 IEC 62040-2: 2016	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements [*Section 6*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	FREMONT2
IEC 62061 IEC 62061: 2021+A1 IEC 62061: 2021	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3*]	
ISO 22200: 2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity	
KOREA, REPUBLIC OF		
KS C 9814-2	CISPR 14-2: 2020	
KS C 9835	CISPR 35: 2016	
KS B 6945	EN 12016: 2013	
KS X 3124	EN 301 489-01 v2.1.1 [7.2, 9]	
KS X 3137	EN 301 489-02 v1.3.1 [7.2, 9]	
KS X 3125	EN 301 489-03 v1.6.1 [7.2, 9]	
KS X 3127	EN 301 489-05 v1.3.1 [7.2, 9]	
KS X 3128	EN 301 489-06 v1.4.1 [7.2, 9]	
KS X 3129	EN 301 489-52 v1.1.0 [7.2, 9]	
KS X 3130	EN 301 489-09 v1.4.1 [7.2, 9]	
KS X 3131	EN 301 489-13 v1.2.1 [7.2, 9]	
KS X 3136	EN 301 489-15 v2.1.1 [7.2, 9]	
KS X 3126	EN 301 489-17 v2.1.1 [7.2, 9]	
KS X 3132	EN 301 489-18 v1.3.1 [7.2, 9]	
KS X 3139	EN 301 489-20 v1.2.1 [7.2, 9]	
KS X 3134	EN 301 489-27 v2.1.1 [7.2, 9]	
KS X 3138	EN 301 489-32 v1.1.1 [7.2, 9]	
KS X 3135	EN 301 489-50 v2.1.1 [7.2, 9]	
KS C IEC 60601-1-2 KS C IEC 60601-1-2: 2012	IEC 60601-1-2: 2014+A1 [8] IEC 60601-1-2: 2007 [*6.2*]	
KS X 3140	IEC 60945: 2002; IEC 60533: 1999 [*Section 5*]	
KS C 9610-6-1	IEC 61000-6-1: 2016	
KS C 9610-6-2	IEC 61000-6-2: 2016	
KS C 9547	IEC 61547: 2009	
VIETNAM		
TCVN 7317: 2003	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
UNITED STATES		
Telcordia GR-1089-CORE 2017	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. [*Sections: 2, 3.3, & 4*]	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**BREA**
Core Measurement Methods:		
RADIATED / CONDUCTED EMISSIONS		
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	
CISPR 11 CISPR 11: 2015+A1+A2 CISPR 11: 2015+A1 CISPR 11: 2015 CISPR 11: 2009+A1 CISPR 11: 2009 CISPR 11: 2003	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
CISPR 14-1 CISPR 14-1: 2020 CISPR 14-1: 2016 CISPR 14-1: 2005+A1 CISPR 14-1: 2005	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1 Emission [*excluding clicks*]	
CISPR 15 CISPR 15: 2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
CISPR 22: 2008 CISPR 22: 2005+A1+A2 CISPR 22: 2005+A1 CISPR 22: 2005	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement [*table top equipment only for testing above 1 GHz*]	
CISPR 32 CISPR 32: 2015+A1 CISPR 32: 2015 CISPR 32: 2012+C1+C2	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
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)	
ICES-GEN	General Requirements for Compliance of Interference-Causing Equipment	
IEC 61000-3-2 IEC 61000-3-2: 2018+A1+A2 IEC 61000-3-2: 2018+A1 IEC 61000-3-2: 2018	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
IEC 61000-3-3 IEC 61000-3-3: 2013+A1+A2 IEC 61000-3-3: 2013+A1 IEC 61000-3-3: 2013	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	
FCC MP-5: 1986	Methods of measurements of radio noise emissions from industrial, scientific and medical equipment	
IMMUNITY		
CISPR 14-2 CISPR 14-2: 2020 CISPR 14-2: 2015 CISPR 14-2:1997+A1+A2 CISPR 14-2:1997+A1 CISPR 14-2:1997	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity - Product family standard	
CISPR 24: 2010+A1 CISPR 24: 2010 CISPR 24: 1997+A1+A2 CISPR 24: 1997+A1 CISPR 24: 1997	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
CISPR 35 CISPR 35: 2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
ENV 50204: 1996	Radiated electromagnetic field from digital radio telephones - immunity test (900 MHz, 5 MHz keyed carrier)	
IEC 61000-4-2 IEC 61000-4-2: 2008 IEC 61000-4-2: 1995+A1+a2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test	
IEC 61000-4-3 IEC 61000-4-3: 2020 IEC 61000-4-3: 2006+A1+A2 IEC 61000-4-3: 2006+A1 IEC 61000-4-3: 2006	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
IEC 61000-4-4 IEC 61000-4-4: 2012 IEC 61000-4-4: 2004+A1 IEC 61000-4-4: 2004	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test	
IEC 61000-4-5 IEC 61000-4-5: 2014+A1 IEC 61000-4-5: 2014 IEC 61000-4-5: 2005	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test	
IEC 61000-4-6 IEC 61000-4-6: 2023 IEC 61000-4-6: 2013 IEC 61000-4-6: 2008 IEC 61000-4-6: 2003+A1 IEC 61000-4-6: 2003 IEC 61000-4-6: 1996+A1	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
IEC 61000-4-8 IEC 61000-4-8: 2009 IEC 61000-4-8: 1993+A1 IEC 61000-4-8: 1993	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication	
IEC 61000-4-11 IEC 61000-4-11: 2020 IEC 61000-4-11: 2004+A1 IEC 61000-4-11: 2004 IEC 61000-4-11: 1994+A1 IEC 61000-4-11: 1994	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
IEC 61000-4-12 IEC 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	
IEC 61000-4-13 IEC 61000-4-13: 2002+A1+A2	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 61000-4-39 IEC 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9 kHz to 26 MHz*]	
MARITIME		
DNV-CG-0339 DNV-CG-0339: 2021 DNVGL-CG-0339: 2019 DNVGL-CG-0339: 2016	Class Guideline: Environmental test specification for electrical, electronic and programmable equipment and systems [*Sections 3.4, 3.5, 3.12, 3.13, & 3.14*]	
RADIO / WIRELESS		
ANSI C63.10 ANSI C63.10: 2020 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	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	
ANSI C63.30 ANSI C63.30: 2021	American National Standard for Methods of Measurements of Radio-Frequency Emissions from Wireless Power Transfer Equipment	
ANSI/TIA-603E TIA-102.CAAA-E	Land mobile FM or PM communications equipment measurement and performance standards	
FCC KDB 905462 D02 FCC KDB 905462 D02 v02	U-NII with DFS Intentional Radiators	
EN 300 086 EN 300 086 v2.1.2	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech	
EN 300 113 EN 300 113 v3.1.1 EN 300 113 v2.2.1	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 EN 300 219 v2.1.1	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 300 220-1 EN 300 220-1 v3.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
EN 300 220-2 EN 300 220-2 v3.2.1 EN 300 220-2 v3.1.1	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 EN 300 220-3-1 v2.1.1	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 EN 300 220-3-2 v1.1.1	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 EN 300 220-4 v1.1.1	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 EN 300 224 v2.1.1	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz	
EN 300 328 EN 300 328 v2.2.2 EN 300 328 v2.1.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	
EN 300 330 EN 300 330 v2.1.1	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 300 422-1 EN 300 422-1 v2.2.1 EN 300 422-1 v2.1.2 EN 300 422-1 v1.4.2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers	
EN 300 422-2 EN 300 422-2 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers	
EN 300 422-3 EN 300 422-3 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers	
EN 300 422-4 EN 300 422-4 v2.1.1	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 EN 300 433 v2.1.1	Citizens' Band (CB) radio equipment	
EN 300 440 EN 300 440 v2.2.1 EN 300 440 v2.1.1	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 300 454-2 EN 300 454-2 v1.1.1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links	
EN 300 487 EN 300 487 v2.1.2	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 301 357 EN 301 357 v2.1.1	Cordless audio devices in the range 25 MHz to 2 000 MHz	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 301 502 EN 301 502 v12.5.2	Global System for Mobile communications (GSM); Base station and repeater equipment	
EN 301 893 EN 301 893 v2.1.1	Wireless Access Systems; 5GHz Radio Local Area Network (RLAN) [*excluding section 5.4.9.3.2.4.1*]	
EN 301 908-1 EN 301 908-1 v15.2.1 EN 301 908-1 v15.1.1 EN 301 908-1 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 1: Introduction and common requirements	
EN 301 908-3 EN 301 908-3 v15.1.1 EN 301 908-3 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 3: CDMA Direct Spread (UTRA FDD) Base Stations	
EN 301 908-5 EN 301 908-5 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 5: CDMA Multi-Carrier (cdma2000) Base Stations	
EN 301 908-7 EN 301 908-7 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 7: CDMA TDD (UTRA TDD) Base Stations	
EN 301 908-9 EN 301 908-9 v1.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 9: Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) Base Station	
EN 301 908-11 EN 301 908-11 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 11: CDMA Direct Spread (UTRA FDD) Repeaters	
EN 301 908-12 EN 301 908-12 v7.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 12: CDMA Multi-Carrier (cdma2000) Repeaters	
EN 301 908-14 EN 301 908-14 v15.1.1 EN 301 908-14 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations	
EN 301 908-15 EN 301 908-15 v15.1.1 EN 301 908-15 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	
EN 301 908-17 EN 301 908-17 v4.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 17: Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) Base Station	
EN 301 908-18 EN 301 908-18 v15.1.1 EN 301 908-18 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station	
EN 301 908-20 EN 301 908-20 v6.3.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 20: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 301 908-22 EN 301 908-22 v6.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 22: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 302 064 EN 302 064 v2.1.1 EN 302 064-2 v1.1.1	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band	
EN 302 065-1 EN 302 065-1 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications	
EN 302 065-2 EN 302 065-2 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking	
EN 302 066 EN 302 066 v2.2.1 EN 302 066-2 v1.2.1	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 302 195 EN 302 195 v2.1.1	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 EN 302 208 v3.4.1 EN 302 208 v3.3.1 EN 302 208 v3.1.1	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 to 921) MHz with power levels up to 4 W	
EN 302 326-2 EN 302 326-2 v2.1.1 EN 302 326-2 v1.2.2	Fixed Radio Systems; Multipoint equipment and antennas; Part 2: digital multipoint radio equipment	
EN 302 502 EN 302 502 v2.1.1	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems	
EN 302 645 EN 302 645 v1.1.1	Electromagnetic compatibility and radio spectrum matters (ERM); Short range devices; Global navigation satellite systems (GNSS) repeaters	
EN 303 413 EN 303 413 v1.2.1 EN 303 413 v1.1.1	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 EN 303 417 v1.1.1	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 303 446-1 EN 303 446-1 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 1: Requirements for equipment intended to be used in residential, commercial and light industry locations	
EN 303 446-2 EN 303 446-2 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 2: Requirements for equipment intended to be used in industrial locations	
EN 303 454 EN 303 454 v1.1.1	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz	
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	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
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-198	Flexible Use Broadband Equipment Operating in the Band 3900-3980 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 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-246	Ultra-Low Power (ULP) Wireless Medical Capsule Endoscopy Devices Operating in the 430-440 MHz Band	
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
RSS-248	Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band	
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	
KS X 3123	Conformity Assessment Procedure of Radio Equipment	
KS X 3143	Test Methods of radio disturbance for residential wireless power-transmission equipment	
MSIT No. 86, Jan 4, 2022	Regulations on Radio Equipment [*excluding SAR*]	
MSIT Public Notification 2024-22, May 30, 2024	Unlicensed Radio Equipment Established without Notice [*excluding SAR*]	
RRA Public Notification 2022-28, Dec 30, 2022	Technical Requirements of Radio Wave Application	
RF EXPOSURE		
IEC 62233 IEC 62233: 2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
IEC 62311 IEC 62311: 2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
IEC 62479 IEC 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
RSS-102	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) [*MPE Calculations, RF Exposure Measurement and Nerve Stimulation Measurement Only*]	
RSS-102.NS.MEAS	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 [*excluding 5.1*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
PRODUCT FAMILY STANDARDS:		
AUSTRALIA / NEW ZEALAND		
ACMA Short Range Equipment Standard	ACMA Radiocommunications Equipment (General) Rules 2021 – Schedule 5, Part 15, Short Range Equipment Standard using: AS/NZS 4268: 2017 +A1: 2021 ETSI EN 300 220-1 v3.1.1: 2017 ETSI EN 300 330 v2.1.1: 2017 ETSI EN 300 440 v2.2.1: 2018 Federal Communications Commission Rules Title 47 (Telecommunications) Part 15–Radio Frequency Devices.	
ARPANSA RPS S-1 ARPANSA RPS S-1: 2021	Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz [*excluding SAR*]	
AS/NZS 4268 AS/NZS 4268: 2017+A1	Radio equipment and systems - Short range devices - Limits and methods of measurement	
AS/NZS 4295 AS/NZS 4295 (2015) +A1	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 AS/NZS 4768.1 (2010)	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: 2021	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
AS 61000.6.4: 2020	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
AS/NZS 61000.6.8	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
AS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
AS/NZS CISPR 14.1: 2021	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 +A1	Electromagnetic compatibility of multimedia equipment – Emission Requirements	
EUROPEAN NORM		
EN 12015 EN 12015: 2020 EN 12015: 2014	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors – Emission	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
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 EN 12184: 2022 EN 12184: 2014	Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods [*Section 12.1 Only*]	
EN 13309: 2010	Construction machinery – Electromagnetic compatibility of machines with internal electrical power supply	
EN 13763-26 EN 13763-26: 2004	Explosives for civil uses – Detonators and relays – Part 26	
EN ISO 13766-1 EN ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	
EN ISO 13766-2 EN 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	
EN ISO 14982 EN ISO 14982: 2009	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria	
EN 15194 EN 15194: 2017+A1 EN 15194: 2017 EN 15194: 2009+A1 EN 15194: 2009	Cycles – Electrically power assisted cycles – EPAC Bicycles	
EN 50065-1 EN 50065-1: 2011	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 EN 50065-2-1: 2003+A1 EN 50065-2-1: 2003	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 50065-2-2 EN 50065-2-2: 2003+A1 EN 50065-2-2: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148,5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 148,5) kHz	
EN 50065-2-3 EN 50065-2-3: 2024 EN 50065-2-3: 2003+A1 EN 50065-2-3: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (3 to 95) kHz	
EN 50083-2 EN 50083-2: 2012+A1	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment	
EN 50121-1 EN 50121-1: 2017 EN 50121-1: 2006+AC	Railway applications - Electromagnetic compatibility - Part 1 General	
EN 50121-3-2 EN 50121-3-2: 2016+A1 EN 50121-3-2: 2016	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - Apparatus	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 50121-4 EN 50121-4: 2016+A1 EN 50121-4: 2016	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signaling and telecommunications apparatus	
EN 50130-4 EN 50130-4: 2011+A1 EN 50130-4: 2011	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems	
EN 50270 EN 50270: 2015+AC	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	
EN 50370-1 EN 50370-1: 2005	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.	
EN 50370-2 EN 50370-2: 2003	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity	
EN 50498 EN 50498: 2010	Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles	
EN 55011 EN 55011: 2016+A1+A2+A11 EN 55011: 2016+A1+A11 EN 55011: 2016+A1 EN 55011: 2016 EN 55011: 2009+A1 EN 55011: 2009	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement	
EN IEC 55014-1 EN IEC 55014-1: 2021 EN 55014-1: 2017+A11 EN 55014-1: 2017 EN 55014-1: 2006+A1+A2 EN 55014-1: 2006+A1 EN 55014-1: 2006	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [*excluding clicks*]	
EN IEC 55014-2 EN IEC 55014-2: 2021 EN 55014-2: 2015 EN 55014-2: 1997+A1+A2+AC EN 55014-2: 1997+A1+AC EN 55014-2: 1997	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard	
EN IEC 55015 EN IEC 55015: 2019+A11 EN IEC 55015: 2019 EN 55015: 2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 55022: 2010 EN 55022: 2006+A1+A2	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [*table-top equipment only for testing above 1 GHz*]	
EN 55024: 2010+A1 EN 55024: 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EN 55032 EN 55032: 2015+A11 EN 55032: 2015 EN 55032: 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 55035 EN 55035: 2017+A11 EN 55035: 2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EN 55103-1: 2009+A1 EN 55103-1: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Emission	
EN 55103-2: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity	
EN 60034-1 EN 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
EN 60601-1-2 EN 60601-1-2: 2015+A1 EN 60601-1-2: 2015 EN 60601-1-2: 2007	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests	
EN IEC 60601-2-2 EN IEC 60601-2-2: 2018+A1 EN IEC 60601-2-2: 2018 EN 60601-2-2: 2009+A11 EN 60601-2-2: 2009	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [*EMC sections only*]	
EN 60601-2-4 EN 60601-2-4: 2011+A1 EN 60601-2-4: 2011 EN 60601-2-4: 2003	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [*EMC sections only*]	
EN 60601-2-10 EN 60601-2-10: 2015+A1+A2 EN 60601-2-10: 2015+A1 EN 60601-2-10: 2015 EN 60601-2-10: 2001+A1 EN 60601-2-10: 2001	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 IEC 60601-2-22 EN IEC 60601-2-22: 2020 EN 60601-2-22: 2013	Medical electrical equipment – Part 2 Particular requirements for the safety of diagnostic and therapeutic laser equipment [*EMC sections only*]	
EN 60601-2-24 EN 60601-2-24: 2015 EN 60601-2-24: 1998	Medical electrical equipment – Part 2-24 Particular requirements for the safety of infusion pumps and controllers [*EMC sections only*]	
EN 60601-2-26: 2015	Medical electrical equipment – Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [*EMC sections only*]	
EN 60601-2-34 EN 60601-2-34: 2014 EN 60601-2-34: 2000	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 EN 60601-2-37: 2008+A1 EN 60601-2-37: 2008	Medical electrical equipment – Part 2-37 Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment [*EMC sections only*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 60601-2-47 EN 60601-2-47: 2015 EN 60601-2-47: 2001	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 EN 60601-2-62: 2015	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 EN ISO 80601-2-55: 2018	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: 2016+A1+A2 EN 60730-1: 2016+A1 EN 60730-1: 2016 EN 60730-1: 2011	Automatic electrical controls for household and similar use – Part 1 General requirements [*EMC Sections Only*]	
EN IEC 60730-2-9 EN IEC 60730-2-9: 2019+A1+A2 EN IEC 60730-2-9: 2019+A1 EN IEC 60730-2-9: 2019 EN 60730-2-9: 2010	Automatic electrical controls for household and similar use – Part 2 Particular requirements	
EN 60945 EN 60945: 2002	Maritime navigation and radio communication equipment and systems – General requirements – Methods of testing and required test results	
EN IEC 61000-3-2 EN IEC 61000-3-2: 2019+A1+A2 EN IEC 61000-3-2: 2019+A1 EN IEC 61000-3-2: 2019 EN 61000-3-2: 2014	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤16 A per phase)	
EN 61000-3-3 EN 61000-3-3: 2013+A1+A2 EN 61000-3-3: 2013+A1 EN 61000-3-3: 2013	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 EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
EN IEC 61000-4-3 EN IEC 61000-4-3: 2020 EN 61000-4-3: 2006+A1+A2	Electromagnetic compatibility (EMC) – Part 4-3 Testing and measurement techniques – Radiated, radio frequency, electromagnetic field immunity test	
EN 61000-4-4 EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) – Part 4-4 Testing and measurement techniques – Electrical fast transient/burst immunity test	
EN 61000-4-5 EN 61000-4-5: 2014 +A1 EN 61000-4-5: 2014	Electromagnetic compatibility (EMC) – Part 4-5 Testing and measurement techniques – Surge immunity test	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN IEC 61000-4-6 EN IEC 61000-4-6: 2023 EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) – Part 4-6 Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EN 61000-4-8 EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) – Part 4 Testing and measurement techniques – Section 8 Power frequency magnetic field immunity test basic EMC publication	
EN IEC 61000-4-11 EN IEC 61000-4-11: 2020 EN 61000-4-11: 2004+A1 EN 61000-4-11: 2004	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
EN 61000-4-12 EN 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	
EN 61000-4-13 EN 61000-4-13: 2002 +A1+A2	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 61000-4-16 EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
EN 61000-4-29 EN 61000-4-29: 2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EN 61000-4-39 EN 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9kHz to 26MHz*]	
EN IEC 61000-6-1 EN IEC 61000-6-1: 2019 EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments	
EN IEC 61000-6-2 EN IEC 61000-6-2: 2019 EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments	
EN IEC 61000-6-3 EN IEC 61000-6-3: 2021 EN 61000-6-3: 2007+A1 EN 61000-6-3: 2007	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
EN IEC 61000-6-4 EN IEC 61000-6-4: 2019 EN 61000-6-4: 2007+A1 EN 61000-6-4: 2007	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
EN IEC 61000-6-8 EN IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
EN 61131-2 EN 61131-2: 2007	Programmable controllers, Equipment requirements and tests [*EMC sections only*]	
EN IEC 61204-3 EN IEC 61204-3: 2018 EN 61204-3: 2001	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)	
EN IEC 61326-1 EN IEC 61326-1: 2021 EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN IEC 61326-2-1 EN IEC 61326-2-1: 2021 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1 Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications.	
EN IEC 61326-2-2 EN IEC 61326-2-2: 2021 EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems.	
EN IEC 61326-2-3 EN IEC 61326-2-3: 2021 EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3 Particular requirements – Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EN IEC 61326-2-5 EN IEC 61326-2-5: 2021 EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1.	
EN IEC 61326-2-6 EN IEC 61326-2-6: 2021 EN 61326-2-6: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. In vitro diagnostic (IVD) medical equipment.	
EN 61326-3-1 EN 61326-3-1: 2017	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) - General industrial applications.	
EN IEC 61326-3-2 EN IEC 61326-3-2: 2018 EN 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment.	
EN IEC 61547 EN IEC 61547: 2023 EN 61547: 2009	Equipment for general lighting purposes - EMC immunity requirements	
EN 61850-3 EN 61850-3: 2014	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6~~excluding 5.7.1.3 and 5.7.3~~*]	
EN IEC 61851-21-2 EN IEC 61851-21-2: 2021	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
EN IEC 61967-4 EN IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1 Ω/150Ω direct coupling method	
EN IEC 62040-2 EN IEC 62040-2: 2018 EN 62040-2: 2006+AC	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
EN IEC 62061 EN IEC 62061: 2021+A1 EN IEC 62061: 2021 EN 62061: 2005+A1+A2	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3~~, ref Annex E~~*]	
EN 62233 EN 62233: 2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN IEC 62311 EN IEC 62311: 2020 EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
EN 62479 EN 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
EN 300 386 EN 300 386 v2.2.1 EN 300 386 v2.1.1 EN 300 386 v1.6.1	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements	
EN 301 489-1 EN 301 489-1 v2.2.3 EN 301 489-1 v2.1.1 EN 301 489-1 v1.9.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	
EN 301 489-2 EN 301 489-2 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 2: Specific conditions for radio paging equipment	
EN 301 489-3 EN 301 489-3 v2.3.2 EN 301 489-3 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	
EN 301 489-4 EN 301 489-4 v3.3.1 EN 301 489-4 v3.2.1 EN 301 489-4 v3.1.1 EN 301 489-4 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 4: Specific conditions for fixed radio links and ancillary equipment	
EN 301 489-5 EN 301 489-5 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	
EN 301 489-6 EN 301 489-6 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	
EN 301 489-7 EN 301 489-7 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	
EN 301 489-8 EN 301 489-8 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 8: Specific conditions for GSM base stations	
EN 301 489-9 EN 301 489-9 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	
EN 301 489-10 EN 301 489-10 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 10: Specific conditions for First (CT1 and CT1+) and Second-Generation Cordless Telephone (CT2) equipment	
EN 301 489-11 EN 301 489-11 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 11: Specific conditions for terrestrial sound broadcasting service transmitters	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 301 489-12 EN 301 489-12 v3.2.1 EN 301 489-12 v3.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)	
EN 301 489-13 EN 301 489-13 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	
EN 301 489-14 EN 301 489-14 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters	
EN 301 489-15 EN 301 489-15 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 15: Specific conditions for commercially available amateur radio equipment	
EN 301 489-16 EN 301 489-16 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable	
EN 301 489-17 EN 301 489-17 v3.2.4 EN 301 489-17 v3.1.1 EN 301 489-17 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 17: Specific conditions for Broadband Data Transmission Systems	
EN 301 489-18 EN 301 489-18 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	
EN 301 489-19 EN 301 489-19 v2.2.1 EN 301 489-19 v2.1.1 EN 301 489-19 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	
EN 301 489-20 EN 301 489-20 v2.2.1 EN 301 489-20 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	
EN 301 489-22 EN 301 489-22 v2.1.1 EN 301 489-22 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 22: Specific conditions for ground based aeronautical mobile and fixed radio equipment; Harmonised Standard for ElectroMagnetic Compatibility	
EN 301 489-23 EN 301 489-23 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	
EN 301 489-24 EN 301 489-24 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 24:Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EN 301 489-25 EN 301 489-25 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	
EN 301 489-26 EN 301 489-26 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 26: Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
EN 301 489-27 EN 301 489-27 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands	
EN 301 489-28 EN 301 489-28 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 28: Specific conditions for wireless digital video links	
EN 301 489-29 EN 301 489-29 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 29: Specific conditions for Medical Data Service Devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands	
EN 301 489-31 EN 301 489-31 v2.2.1 EN 301 489-31 v2.1.1 EN 301 489-31 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P	
EN 301 489-33 EN 301 489-33 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 33: Specific conditions for Ultra-Wide Band (UWB) communications devices	
EN 301 489-34 EN 301 489-34 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	
EN 301 489-35 EN 301 489-35 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands	
EN 301 489-50 EN 301 489-50 v2.3.1 EN 301 489-50 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater, and ancillary equipment	
EN 301 489-51 EN 301 489-51 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz	
EN 301 489-52 EN 301 489-52 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment	
EN 301 489-53 EN 301 489-53 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment	
EN 301 489-54 EN 301 489-54 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars	
IMDA SINGAPORE		
IMDA TS AR:2016	Technical specification for Amateur Radio Equipment	
IMDA TS CBS:2023	Technical specification for Cellular Base Station and Repeater System	
IMDA TS CT-CTS :2016	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [*excluding dect and phs*]	
IMDA TS GMPCS:2016	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals	
IMDA TS LMR:2016	Technical specification for Land Mobile Radio Equipment	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
IMDA TS SRD:2023	Technical specification for Short Range Devices (SRD)	
IMDA TS UWB:2016	Technical specification for Ultra-Wideband (UWB) Devices	
IMDA TS WBA:2016	Technical specification for Wireless Broadband Access (WBA) equipment	
INTERNATIONAL		
CISPR 16-2-1 CISPR 16-2-1: 2014 +A1 CISPR 16-2-1: 2014 CISPR 16-2-1: 2008+A1+A2 CISPR 16-2-1: 2008+A1 CISPR 16-2-1: 2008 CISPR 16-2-1: 2003+A1 CISPR 16-2-1: 2003	Specification for radio disturbance and immunity measuring apparatus and methods — Part 2-1: Methods of measurement of disturbances and immunity — Conducted disturbance measurements	
CISPR 16-2-2 CISPR 16-2-2: 2010 CISPR 16-2-2: 2003+A1+A2 CISPR 16-2-2: 2003+A1 CISPR 16-2-2: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power	
CISPR 16-2-3 CISPR 16-2-3: 2016+A1+A2 CISPR 16-2-3: 2016+A1 CISPR 16-2-3: 2016 CISPR 16-2-3: 2010+A1+A2 CISPR 16-2-3: 2010+A1 CISPR 16-2-3: 2010 CISPR 16-2-3: 2003+A1+A2 CISPR 16-2-3: 2003+A1 CISPR 16-2-3: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	
IACS UR E10 IACS UR E10 r10: 2024 IACS UR E10 r09: 2023 IACS UR E10 r08: 2021	Requirements concerning Electrical and Electronic Installations: Test Specification for Type Approval [*Sections 3, 4, 9, 10, 13, 14, 15, 16, 17, 18, 19, & 20]*	
IEC 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
IEC 60533 IEC 60533: 2015 IEC 60533: 1999	Electromagnetic compatibility of electrical and electronic installations in ships	
IEC 60601-1-2 IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2014 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 IEC 60601-2-2: 2017 IEC 60601-2-2: 2009	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [*EMC sections only*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
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 IEC 60601-2-22: 2019 IEC 60601-2-22: 2007+A1	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: 2012	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*]	
ISO 80601-2-55 ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [*EMC sections only*]	
IEC 60730-1	Automatic electrical controls for household and similar use - Part 1 General requirements [*EMC Sections Only*]	
IEC 60730-2-9	Automatic electrical controls for household and similar use – Part 2: Particular requirements	
IEC 60945 IEC 60945: 2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results	
IEC 60601-1-2 IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2014 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 IEC 60601-2-2: 2017 IEC 60601-2-2: 2009	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*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
IEC 60601-2-22 IEC 60601-2-22: 2019 IEC 60601-2-22: 2007+A1	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: 2012	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*]	
ISO 80601-2-55 ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [*EMC sections only*]	
IEC 60730-1	Automatic electrical controls for household and similar use - Part 1 General requirements [*EMC Sections Only*]	
IEC 60730-2-9	Automatic electrical controls for household and similar use – Part 2: Particular requirements	
IEC 60945 IEC 60945: 2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results	
IEC 61000-6-1 IEC 61000-6-1: 2016	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-2 IEC 61000-6-2: 2016	Electromagnetic capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments	
IEC 61000-6-3 IEC 61000-6-3: 2020 IEC 61000-6-3: 2006+A1	Electromagnetic capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments	
IEC 61000-6-4 IEC 61000-6-4: 2018 IEC 61000-6-4: 2006+A1	Electromagnetic capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-8 IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
IEC 61326-1 IEC 61326-1: 2020 IEC 61326-1: 2012 IEC 61326-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements	
IEC 61326-2-1 IEC 61326-2-1: 2020 IEC 61326-2-1: 2012 IEC 61326-2-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
IEC 61326-2-2 IEC 61326-2-2: 2020 IEC 61326-2-2: 2012 IEC 61326-2-2: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
IEC 61326-2-3 IEC 61326-2-3: 2020 IEC 61326-2-3: 2012 IEC 61326-2-3: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
IEC 61326-2-5 IEC 61326-2-5: 2020 IEC 61326-2-5: 2012 IEC 61326-2-5: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1	
IEC 61326-2-6 IEC 61326-2-6: 2020 IEC 61326-2-6: 2012 IEC 61326-2-6: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. - Test configurations, operational conditions and performance criteria In vitro diagnostic (IVD) medical equipment.	
IEC 61326-3-1 IEC 61326-3-1: 2017 IEC 61326-3-1: 2008	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) - General industrial applications.	
IEC 61326-3-2 IEC 61326-3-2: 2017 IEC 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment.	
IEC 61547 IEC 61547: 2020	Equipment for general lighting purposes - EMC immunity requirements	
IEC 61851-21-2 IEC 61851-21-2: 2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
IEC 62040-2 IEC 62040-2: 2016	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
IEC 62061 IEC 62061: 2021+A1 IEC 62061: 2021	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems	
ISO 22200: 2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity	
JAPAN		
JIS C 61326-1	Electrical equipment for measurement, control and laboratory use - Electromagnetic compatibility (EMC) requirements - Part 1: General requirements	
VCCI-CISPR 32 VCCI-CISPR 32: 2016	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
KOREA, REPUBLIC OF		
KS C 9811	CISPR 11: 2015 +A1	
KS C 9814-1	CISPR 14-1: 2020 [*excluding clicks*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
KS C 9814-2	CISPR 14-2: 2020	
KS C 9815	CISPR 15: 2018	
KS C 9832	CISPR 32: 2015	
KS C 9835	CISPR 35: 2016	
KS B 6955	EN 12015: 2013	
KS B 6945	EN 12016: 2013	
KS X 3124	EN 301 489-01 v2.1.1	
KS X 3137	EN 301 489-02 v1.3.1	
KS X 3125	EN 301 489-03 v1.6.1	
KS X 3127	EN 301 489-05 v1.3.1	
KS X 3128	EN 301 489-06 v1.4.1	
KS X 3129	EN 301 489-52 v1.1.0	
KS X 3130	EN 301 489-09 v1.4.1	
KS X 3131	EN 301 489-13 v1.2.1	
KS X 3136	EN 301 489-15 v2.1.1	
KS X 3126	EN 301 489-17 v2.1.1	
KS X 3132	EN 301 489-18 v1.3.1	
KS X 3139	EN 301 489-20 v1.2.1	
KS X 3134	EN 301 489-27 v2.1.1	
KS X 3138	EN 301 489-32 v1.1.1	
KS X 3135	EN 301 489-50 v2.1.1	
KS C IEC 60601-1-2 KS C IEC 60601-1-2: 2012	IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2007	
KS X 3140	IEC 60945: 2002; IEC 60533: 1999	
KS C 9610-6-1	IEC 61000-6-1: 2016	
KS C 9610-6-2	IEC 61000-6-2: 2016	
KS C 9610-6-3	IEC 61000-6-3: 2006+A1	
KS C 9610-6-4	IEC 61000-6-4: 2018	
KS C 9547	IEC 61547: 2009	
KS C 9040-2	IEC 62040-2: 2005	
TAIWAN / CHINESE TAIPEI		
CNS 13803 CNS 13803: 2018	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment	
CNS 14757-2 CNS 14757-2: 2019	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	
CNS 15936 CNS 15936: 2016	Electromagnetic compatibility of multimedia equipment – Emissions requirements	
LP0002 LP0002:2024	Low-power Radio-frequency Devices Technical Regulations [*excluding SAR*]	
RTTE01 RTTE01: 2020	2.4GHz Radio-frequency Telecommunications terminal equipment technical specification	
VIETNAM		
TCVN 7189: 2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
TCVN 7317: 2003	Information technology equipment - Immunity characteristics - Limits and methods of measurement	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	BREA
QCVN 118: 2018/BTTTT	National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements	
UNITED STATES		
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 RESNA WC-2: 2009	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [*Section 21 only*]	
Telcordia GR-1089-CORE 2017	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. [*Sections: 2, 3, & 4*]	

STANDARD [2]:	**DESCRIPTION OF STANDARD:**	**CHATSWORTH**
Core Measurement Methods:		
RADIATED / CONDUCTED EMISSIONS		
IMMUNITY		
IEC 61000-4-2 IEC 61000-4-2: 2008 IEC 61000-4-2: 1995+A1+A2	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
AUTOMOTIVE		
CISPR 25 CISPR 25: 2021 CISPR 25: 2016 CISPR 25: 2008 CISPR 25: 2002	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement [2021: *excluding sections 5 and 6.6*] [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*]	
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: 2023 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	

STANDARD [2]:	DESCRIPTION OF STANDARD:	CHATSWORTH
ISO 11452-4 ISO 11452-4: 2020 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 ISO 11452-7: 2003+A1 ISO 11452-7: 2003	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 11452-9 ISO 11452-9: 2021 ISO 11452-9: 2012	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 9: Portable transmitters	
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 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 [*excluding sections 4.2, 4.3 & 4.4*]	
ISO 13766-2 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 [*excluding section 5.2*]	
ISO 13766: 2006	Earth-moving machinery - Electromagnetic compatibility [*excluding sections 5.3, 5.4 & 5.5*]	
ISO 14982: 1998	Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria [*excluding sections 6.1, 6.2 & 6.3*]	
ISO 16750-2 ISO 16750-2: 2023 ISO 16750-2: 2012 ISO 16750-2: 2010	Road vehicles -- Environmental conditions and testing for electrical and electronic equipment -- Part 2: Electrical loads [*excluding 4.11, & 4.12*]	
SAE J1113-2: 2010 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: 2020 SAE J1113-4: 2014 SAE J1113-4: 2004	Immunity to radiated electromagnetic fields – Bulk current injection (BCI) method	
SAE J1113-11 SAE J1113-11: 2023 SAE J1113-11: 2018 SAE J1113-11: 2017 SAE J1113-11: 2012 SAE J1113-11: 2007	Immunity to conducted transients on power leads	

STANDARD [2]:	DESCRIPTION OF STANDARD:	CHATSWORTH
SAE J1113-12 SAE J1113-12: 2022 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: 2013 SAE J1113-21: 2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay	
SAE J1113-22: 2010 SAE J1113-22: 2003	Electromagnetic compatibility measurement procedure for vehicle components - Part 22 - immunity to radiated magnetic fields	
SAE J1113-26 SAE J1113-26: 2021 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	
MILITARY / AEROSPACE		
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, 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: CE101, CE102, CE106, RE101, RE102, RE-103*] [*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, RE-103*] [*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*]	

STANDARD [2]:	DESCRIPTION OF STANDARD:	CHATSWORTH
MIL-STD-704F MIL-STD-704E MIL-STD-704D MIL-STD-704C MIL-STD-704B MIL-STD-704A MIL-STD-704	Aircraft Electrical Power Characteristics	
MIL-HDBK-704-2	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 400Hz, 115VAC	
MIL-HDBK-704-3	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, 400Hz, 115VAC	
MIL-HDBK-704-4	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, Variable Frequency, 115VAC	
MIL-HDBK-704-5	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, Variable Freuqency, 115VAC	
MIL-HDBK-704-6	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 60Hz, 115VAC	
MIL-HDBK-704-7	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 270VDC	
MIL-HDBK-704-8	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 28VDC	
RTCA/DO-160C	Environmental conditions and test procedures of airborne equipment. [*Sections: 15, 16, 17, 18, 19, 20, 21, & 22*]	
RTCA/DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment. [*Sections: 15, 16, 17, 18, 19, 20, -21, 22, & 25*]	
RTCA/DO-380	Environmental conditions and test procedures for ground-based equipment. [*Sections: 16, 19, 20, 21, 22, & 25*]	
PRODUCT FAMILY STANDARDS:		
EUROPEAN NORM		
EN 50498 EN 50498: 2010	Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles	
EN 61000-4-2 EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
UNITED NATIONS		

STANDARD [2]:	DESCRIPTION OF STANDARD:	CHATSWORTH
UN/ECE Addendum 9 Regulation 10 Rev 6+A1+A2 Rev 6+A1 Rev 6 Rev 5+A1+A2 Rev 5+A1 Rev 5	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 [*Sections 7, 8 , 9, 10, 17, 18, 19, 20, 21, 22*]	

STANDARD [2,3]:	**DESCRIPTION OF STANDARD:**	**CANYON PARK**
Core Measurement Methods:		
RADIATED / CONDUCTED EMISSIONS		
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	
CISPR 11 CISPR 11: 2015+A1+A2 CISPR 11: 2015+A1 CISPR 11: 2015 CISPR 11: 2009+A1 CISPR 11: 2009 CISPR 11: 2003	Industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
CISPR 14-1 CISPR 14-1: 2020 CISPR 14-1: 2016 CISPR 14-1: 2005+A1 CISPR 14-1: 2005	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1 Emission [*excluding clicks*]	
CISPR 15 CISPR 15: 2018	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
CISPR 22: 2008 CISPR 22: 2005+A1+A2 CISPR 22: 2005+A1 CISPR 22: 2005	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement [*table top equipment only for testing above 1 GHz*]	
CISPR 32 CISPR 32: 2015+A1 CISPR 32: 2015 CISPR 32: 2012+C1+C2	Electromagnetic compatibility of multimedia equipment - Emission Requirements	
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)	
ICES-GEN	General Requirements for Compliance of Interference-Causing Equipment	
IEC 61000-3-2 IEC 61000-3-2: 2018+A1+A2 IEC 61000-3-2: 2018+A1 IEC 61000-3-2: 2018	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
IEC 61000-3-3 IEC 61000-3-3: 2013+A1+A2 IEC 61000-3-3: 2013+A1 IEC 61000-3-3: 2013	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	
FCC MP-5: 1986	Methods of measurements of radio noise emissions from industrial, scientific and medical equipment	
IMMUNITY		
CISPR 14-2 CISPR 14-2: 2020 CISPR 14-2: 2015 CISPR 14-2:1997+A1+A2 CISPR 14-2:1997+A1 CISPR 14-2:1997	Electromagnetic compatibility - Requirements for household appliances, electric tools, and similar apparatus - Part 2 Immunity - Product family standard	
CISPR 24: 2010+A1 CISPR 24: 2010 CISPR 24: 1997+A1+A2 CISPR 24: 1997+A1 CISPR 24: 1997	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
CISPR 35 CISPR 35: 2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
ENV 50204: 1996	Radiated electromagnetic field from digital radio telephones - immunity test (900 MHz, 5 MHz keyed carrier)	
IEC 61000-4-2 IEC 61000-4-2: 2008 IEC 61000-4-2: 1995+A1+a2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test	
IEC 61000-4-3 IEC 61000-4-3: 2020 IEC 61000-4-3: 2006+A1+A2 IEC 61000-4-3: 2006+A1 IEC 61000-4-3: 2006	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
IEC 61000-4-4 IEC 61000-4-4: 2012 IEC 61000-4-4: 2004+A1 IEC 61000-4-4: 2004	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test	
IEC 61000-4-5 IEC 61000-4-5: 2014+A1 IEC 61000-4-5: 2014 IEC 61000-4-5: 2005	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test	
IEC 61000-4-6 IEC 61000-4-6: 2023 IEC 61000-4-6: 2013 IEC 61000-4-6: 2008 IEC 61000-4-6: 2003+A1 IEC 61000-4-6: 2003 IEC 61000-4-6: 1996+A1	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
IEC 61000-4-8 IEC 61000-4-8: 2009 IEC 61000-4-8: 1993+A1 IEC 61000-4-8: 1993	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication	
IEC 61000-4-11 IEC 61000-4-11: 2020 IEC 61000-4-11: 2004+A1 IEC 61000-4-11: 2004 IEC 61000-4-11: 1994+A1 IEC 61000-4-11: 1994	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
IEC 61000-4-12 IEC 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity tests	
IEC 61000-4-13 IEC 61000-4-13: 2002+A1+A2	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 61000-4-21	Electromagnetic compatibility (EMC). Testing and measurement techniques. Reverberation chamber test methods [*excluding sections 6.2, 6.3 and Annexes E, F, G, and H*]	
IEC 61000-4-39 IEC 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9 kHz to 26 MHz*]	
AUTOMOTIVE		
CISPR 25 CISPR 25: 2021 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 [2021: *excluding sections 5, and 6.6*] [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*]	
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: 2023 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: 2020 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)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
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 ISO 11452-5: 2002	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Stripline	
ISO 11452-7 ISO 11452-7: 2003+A1 ISO 11452-7: 2003	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 11452-9 ISO 11452-9: 2021 ISO 11452-9: 2012	Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 9: Portable transmitters	
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 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 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 ISO 16750-2: 2023 ISO 16750-2: 2012 ISO 16750-2: 2010	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*]	
SAE J1113-2: 2010 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: 2020 SAE J1113-4: 2014 SAE J1113-4: 2004	Immunity to radiated electromagnetic fields - Bulk current injection (BCI) method	
SAE J1113-11 SAE J1113-11: 2023 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: 2022 SAE J1113-12: 2017 SAE J1113-12: 2006	Electrical interference by conduction and coupling - capacitive and inductive coupling via lines other than supply lines	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
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: 2013 SAE J1113-21: 2005	Electrical interference by conduction and coupling - coupling clamp and chattering relay	
SAE J1113-22: 2010 SAE J1113-22: 2003	Electromagnetic compatibility measurement procedure for vehicle components - immunity to radiated magnetic fields	
SAE J1113-41: 2006 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 SAE J1752-3: 2017	(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*]	
ENERGY GRID / EV		
IEEE 1613: 2009	Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations	
MARITIME		
DNV-CG-0339 DNV-CG-0339: 2021 DNVGL-CG-0339: 2019 DNVGL-CG-0339: 2016	Class Guideline: Environmental test specification for electrical, electronic and programmable equipment and systems [*Sections 3.4, 3.5, 3.12, 3.13, & 3.14*]	
MILITARY / AEROSPACE		
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*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
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*]	
MIL-STD-704F MIL-STD-704E MIL-STD-704D MIL-STD-704C MIL-STD-704B MIL-STD-704A MIL-STD-704	Aircraft Electrical Power Characteristics	
MIL-HDBK-704-2	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 400Hz, 115VAC	
MIL-HDBK-704-3	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, 400Hz, 115VAC	
MIL-HDBK-704-4	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, Variable Frequency, 115VAC	
MIL-HDBK-704-5	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Three Phase, Variable Freuqency, 115VAC	
MIL-HDBK-704-6	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – Single Phase, 60Hz, 115VAC	
MIL-HDBK-704-7	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 270VDC	
MIL-HDBK-704-8	Guidance for Test Procedures for Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics – 28VDC	
RTCA/DO-160C	Environmental conditions and test procedures of airborne equipment [*Sections: 15, 16, 17, 18, 19, 20, 21, & 22*]	
RTCA/DO-160D/E/F/G	Environmental conditions and test procedures of airborne equipment [*Sections: 15, 16, 17, 18, 19, 20, 21, 22, & 25*]	
RTCA/DO-380	Environmental conditions and test procedures for ground-based equipment [*Sections: 16, 19, 20, 21, 22, & 25*]	
RADIO / WIRELESS		
ANSI C63.10 ANSI C63.10: 2020 ANSI C63.10: 2013	American National Standard for Testing Unlicensed Wireless Devices	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
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	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	
ANSI C63.30 ANSI C63.30: 2021	American National Standard for Methods of Measurements of Radio-Frequency Emissions from Wireless Power Transfer Equipment	
ANSI/TIA-603E TIA-102.CAAA-E	Land mobile FM or PM communications equipment measurement and performance standards	
FCC KDB 905462 D02 FCC KDB 905462 D02 v02	U-NII with DFS Intentional Radiators	
EN 300 086 EN 300 086 v2.1.2	Land Mobile Service; Radio equipment with an internal or external RF connector intended primarily for analogue speech	
EN 300 113 EN 300 113 v3.1.1 EN 300 113 v2.2.1	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 EN 300 219 v2.1.1	Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver	
EN 300 220-1 EN 300 220-1 v3.1.1	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
EN 300 220-2 EN 300 220-2 v3.2.1 EN 300 220-2 v3.1.1	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 EN 300 220-3-1 v2.1.1	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 EN 300 220-3-2 v1.1.1	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 EN 300 220-4 v1.1.1	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 EN 300 224 v2.1.1	Land Mobile Service; Radio Equipment for use in a Paging Service operating within the frequency range 25 MHz - 470 MHz	
EN 300 328 EN 300 328 v2.2.2 EN 300 328 v2.1.1	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	
EN 300 330 EN 300 330 v2.1.1	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 300 422-1 EN 300 422-1 v2.2.1 EN 300 422-1 v2.1.2 EN 300 422-1 v1.4.2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers	
EN 300 422-2 EN 300 422-2 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 2: Class B Receivers	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 300 422-3 EN 300 422-3 v2.1.1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 3: Class C Receivers	
EN 300 422-4 EN 300 422-4 v2.1.1	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 EN 300 433 v2.1.1	Citizens' Band (CB) radio equipment	
EN 300 440 EN 300 440 v2.2.1 EN 300 440 v2.1.1	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 300 454-2 EN 300 454-2 v1.1.1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band audio links	
EN 300 487 EN 300 487 v2.1.2	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 301 357 EN 301 357 v2.1.1	Cordless audio devices in the range 25 MHz to 2 000 MHz	
EN 301 502 EN 301 502 v12.5.2	Global System for Mobile communications (GSM); Base station and repeater equipment	
EN 301 893 EN 301 893 v2.1.1	Wireless Access Systems; 5GHz Radio Local Area Network (RLAN) [*excluding section 5.4.9.3.2.4.1*]	
EN 301 908-1 EN 301 908-1 v15.2.1 EN 301 908-1 v15.1.1 EN 301 908-1 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 1: Introduction and common requirements	
EN 301 908-3 EN 301 908-3 v15.1.1 EN 301 908-3 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 3: CDMA Direct Spread (UTRA FDD) Base Stations	
EN 301 908-5 EN 301 908-5 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 5: CDMA Multi-Carrier (cdma2000) Base Stations	
EN 301 908-7 EN 301 908-7 v5.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 7: CDMA TDD (UTRA TDD) Base Stations	
EN 301 908-9 EN 301 908-9 v1.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 9: Harmonized EN for IMT-2000, TDMA Single-Carrier (UWC 136) Base Station	
EN 301 908-11 EN 301 908-11 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 11: CDMA Direct Spread (UTRA FDD) Repeaters	
EN 301 908-12 EN 301 908-12 v7.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 12: CDMA Multi-Carrier (cdma2000) Repeaters	
EN 301 908-14 EN 301 908-14 v15.1.1 EN 301 908-14 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations	
EN 301 908-15 EN 301 908-15 v15.1.1 EN 301 908-15 v11.1.2	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	
EN 301 908-17 EN 301 908-17 v4.2.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 17: Harmonized EN for IMT-2000, Evolved CDMA Multi-Carrier Ultra Mobile Broadband (UMB) Base Station	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 301 908-18 EN 301 908-18 v15.1.1 EN 301 908-18 v13.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station	
EN 301 908-20 EN 301 908-20 v6.3.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 20: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 301 908-22 EN 301 908-22 v6.1.1	IMT Cellular Networks; Base Stations (BS) and Repeaters Part 22: OFDMA TDD WMAN (Mobile WiMAX™) Base Station	
EN 302 064 EN 302 064 v2.1.1 EN 302 064-2 v1.1.1	Wireless Video Links operating in the 1,3 GHz to 50 GHz frequency band	
EN 302 065-1 EN 302 065-1 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 1: Requirements for Generic UWB applications	
EN 302 065-2 EN 302 065-2 v2.1.1	Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Part 2: Requirements for UWB location tracking	
EN 302 066 EN 302 066 v2.2.1 EN 302 066-2 v1.2.1	Short Range Devices (SRD); Ground- and Wall- Probing Radar applications (GPR/WPR) imaging systems	
EN 302 195 EN 302 195 v2.1.1	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 EN 302 208 v3.4.1 EN 302 208 v3.3.1 EN 302 208 v3.1.1	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 to 921) MHz with power levels up to 4 W	
EN 302 326-2 EN 302 326-2 v2.1.1 EN 302 326-2 v1.2.2	Fixed Radio Systems; Multipoint equipment and antennas; Part 2: digital multipoint radio equipment	
EN 302 502 EN 302 502 v2.1.1	Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems	
EN 302 645 EN 302 645 v1.1.1	Electromagnetic compatibility and radio spectrum matters (ERM); Short range devices; Global navigation satellite systems (GNSS) repeaters	
EN 303 413 EN 303 413 v1.2.1 EN 303 413 v1.1.1	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 EN 303 417 v1.1.1	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 303 446-1 EN 303 446-1 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 1: Requirements for equipment intended to be used in residential, commercial and light industry locations	
EN 303 446-2 EN 303 446-2 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for combined and/or integrated radio and non-radio equipment; Part 2: Requirements for equipment intended to be used in industrial locations	
EN 303 454 EN 303 454 v1.1.1	Short Range Devices (SRD); Metal and object detection sensors in the frequency range 1 kHz to 148,5 kHz	
RSS-111	Broadband public safety equipment operating in the band (4940 to 4990) MHz	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
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-198	Flexible Use Broadband Equipment Operating in the Band 3900-3980 MHz	
RSS-199	Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
RSS-210	Low power license exempt radio communication devices (All 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-246	Ultra-Low Power (ULP) Wireless Medical Capsule Endoscopy Devices Operating in the 430-440 MHz Band	
RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and License-Exempt Local Area Network (LE-LAN) Devices	
RSS-248	Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band	
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	
KS X 3123	Conformity Assessment Procedure of Radio Equipment	
KS X 3143	Test Methods of radio disturbance for residential wireless power-transmission equipment	
MSIT No. 86, Jan 4, 2022	Regulations on Radio Equipment [*excluding SAR*]	
MSIT Public Notification 2024-22, May 30, 2024	Unlicensed Radio Equipment Established without Notice [*excluding SAR*]	
RRA Public Notification 2022-28, Dec 30, 2022	Technical Requirements of Radio Wave Application	
RF EXPOSURE		
IEC 62233 IEC 62233: 2005	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
IEC 62311 IEC 62311: 2019	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
IEC 62479 IEC 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
RSS-102	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) [*MPE Calculations, RF Exposure Measurement and Nerve Stimulation Measurement Only*]	
RSS-102.NS.MEAS	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 [*excluding 5.1*]	
PRODUCT FAMILY STANDARDS:		
AUSTRALIA / NEW ZEALAND		
ACMA Short Range Equipment Standard	ACMA Radiocommunications Equipment (General) Rules 2021 – Schedule 5, Part 15, Short Range Equipment Standard using: AS/NZS 4268: 2017 +A1: 2021 ETSI EN 300 220-1 v3.1.1: 2017 ETSI EN 300 330 v2.1.1: 2017 ETSI EN 300 440 v2.2.1: 2018 Federal Communications Commission Rules Title 47 (Telecommunications) Part 15–Radio Frequency Devices.	
ARPANSA RPS S-1 ARPANSA RPS S-1: 2021	Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz [*excluding SAR*]	
AS/NZS 4268 AS/NZS 4268: 2017+A1	Radio equipment and systems - Short range devices - Limits and methods of measurement	
AS/NZS 4295 AS/NZS 4295 (2015) +A1	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 AS/NZS 4768.1 (2010)	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 standard - Immunity for industrial environments	
AS/NZS 61000.6.3: 2021	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
AS 61000.6.4: 2020	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
AS/NZS 61000.6.8	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
AS CISPR 11: 2017	Industrial, Scientific and Medical (ISM) Radio frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	
AS/NZS CISPR 14.1: 2021	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+A1	Electromagnetic compatibility of multimedia equipment - Emission Requirements	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EUROPEAN NORM		
EN 12015 EN 12015: 2020 EN 12015: 2014	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 EN 12184: 2022 EN 12184: 2014	Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods [*Section 12.1 Only*]	
EN 13309: 2010	Construction machinery – Electromagnetic compatibility of machines with internal electrical power supply	
EN 13763-26 EN 13763-26: 2004	Explosives for civil uses – Detonators and relays – Part 26	
EN ISO 13766-1 EN ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	
EN ISO 13766-2 EN 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	
EN ISO 14982 EN ISO 14982: 2009	Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria	
EN 15194 EN 15194: 2017+A1 EN 15194: 2017 EN 15194: 2009+A1 EN 15194: 2009	Cycles – Electrically power assisted cycles – EPAC Bicycles	
EN 50065-1 EN 50065-1: 2011	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 EN 50065-2-1: 2003+A1 EN 50065-2-1: 2003	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 50065-2-2 EN 50065-2-2: 2003+A1 EN 50065-2-2: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148,5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 148,5) kHz	
EN 50065-2-3 EN 50065-2-3: 2024 EN 50065-2-3: 2003+A1 EN 50065-2-3: 2003	Signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz. Immunity requirements for mains communications equipment and systems operating in the range of frequencies (3 to 95) kHz	
EN 50083-2 EN 50083-2: 2012+A1	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 50121-1 EN 50121-1: 2017 EN 50121-1: 2006+AC	Railway applications - Electromagnetic compatibility - Part 1 General	
EN 50121-3-2 EN 50121-3-2: 2016+A1 EN 50121-3-2: 2016	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - Apparatus	
EN 50121-4 EN 50121-4: 2016+A1 EN 50121-4: 2016	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signaling and telecommunications apparatus	
EN 50130-4 EN 50130-4: 2011+A1 EN 50130-4: 2011	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems	
EN 50270 EN 50270: 2015+AC	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	
EN 50370-1 EN 50370-1: 2005	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.	
EN 50370-2 EN 50370-2: 2003	Electromagnetic Compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity	
EN 50498 EN 50498: 2010	Electromagnetic compatibility (EMC). Product family standard for aftermarket electronic equipment in vehicles	
EN 55011 EN 55011: 2016+A1+A2+A11 EN 55011: 2016+A1+A11 EN 55011: 2016+A1 EN 55011: 2016 EN 55011: 2009+A1 EN 55011: 2009	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement	
EN IEC 55014-1 EN IEC 55014-1: 2021 EN 55014-1: 2017+A11 EN 55014-1: 2017 EN 55014-1: 2006+A1+A2 EN 55014-1: 2006+A1 EN 55014-1: 2006	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [*excluding clicks*]	
EN IEC 55014-2 EN IEC 55014-2: 2021 EN 55014-2: 2015 EN 55014-2: 1997+A1+A2+AC EN 55014-2: 1997+A1+AC EN 55014-2: 1997	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard	
EN IEC 55015 EN IEC 55015: 2019+A11 EN IEC 55015: 2019 EN 55015: 2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 55022: 2010 EN 55022: 2006+A1+A2	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement [*table-top equipment only for testing above 1 GHz*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 55024: 2010+A1 EN 55024: 2010	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EN 55032 EN 55032: 2015+A11 EN 55032: 2015 EN 55032: 2012	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EN 55035 EN 55035: 2017+A11 EN 55035: 2017	Electromagnetic compatibility of multimedia equipment - Immunity requirements	
EN 55103-1: 2009+A1 EN 55103-1: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Emission	
EN 55103-2: 2009	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Immunity	
EN 60034-1 EN 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
EN 60601-1-2 EN 60601-1-2: 2015+A1 EN 60601-1-2: 2015 EN 60601-1-2: 2007	Medical electrical equipment - Part 1-2 General requirements for safety - Collateral standard - Electromagnetic compatibility - requirements and tests	
EN IEC 60601-2-2 EN IEC 60601-2-2: 2018+A1 EN IEC 60601-2-2: 2018 EN 60601-2-2: 2009+A11 EN 60601-2-2: 2009	Medical electrical equipment - Part 2-2 Particular requirements for the safety of high frequency surgical equipment [*EMC sections only*]	
EN 60601-2-4 EN 60601-2-4: 2011+A1 EN 60601-2-4: 2011 EN 60601-2-4: 2003	Medical electrical equipment - Part 2-4 Particular requirements for the safety of cardiac defibrillators [*EMC sections only*]	
EN 60601-2-10 EN 60601-2-10: 2015+A1+A2 EN 60601-2-10: 2015+A1 EN 60601-2-10: 2015 EN 60601-2-10: 2001+A1 EN 60601-2-10: 2001	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 IEC 60601-2-22 EN IEC 60601-2-22: 2020 EN 60601-2-22: 2013	Medical electrical equipment – Part 2 Particular requirements for the safety of diagnostic and therapeutic laser equipment [*EMC sections only*]	
EN 60601-2-24 EN 60601-2-24: 2015 EN 60601-2-24: 1998	Medical electrical equipment – Part 2-24 Particular requirements for the safety of infusion pumps and controllers [*EMC sections only*]	
EN 60601-2-26: 2015	Medical electrical equipment – Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs [*EMC sections only*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 60601-2-34 EN 60601-2-34: 2014 EN 60601-2-34: 2000	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 EN 60601-2-37: 2008+A1 EN 60601-2-37: 2008	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 EN 60601-2-47: 2015 EN 60601-2-47: 2001	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 EN 60601-2-62: 2015	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 EN ISO 80601-2-55: 2018	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: 2016+A1+A2 EN 60730-1: 2016+A1 EN 60730-1: 2016 EN 60730-1: 2011	Automatic electrical controls for household and similar use – Part 1 General requirements [*EMC Sections Only*]	
EN IEC 60730-2-9 EN IEC 60730-2-9: 2019+A1+A2 EN IEC 60730-2-9: 2019+A1 EN IEC 60730-2-9: 2019 EN 60730-2-9: 2010	Automatic electrical controls for household and similar use – Part 2 Particular requirements	
EN 60945 EN 60945: 2002	Maritime navigation and radio communication equipment and systems – General requirements – Methods of testing and required test results	
EN IEC 61000-3-2 EN IEC 61000-3-2: 2019+A1+A2 EN IEC 61000-3-2: 2019+A1 EN IEC 61000-3-2: 2019 EN 61000-3-2: 2014	Electromagnetic Compatibility (EMC) – Part 3 Limits – Section 2 Limits for harmonic current emissions (equipment input current ≤16 A per phase)	
EN 61000-3-3 EN 61000-3-3: 2013+A1+A2 EN 61000-3-3: 2013+A1 EN 61000-3-3: 2013	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 EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) – Part 4-2 Testing and measurement techniques – Electrostatic discharge immunity test	
EN IEC 61000-4-3 EN IEC 61000-4-3: 2020 EN 61000-4-3: 2006+A1+A2	Electromagnetic compatibility (EMC) – Part 4-3 Testing and measurement techniques – Radiated, radio frequency, electromagnetic field immunity test	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 61000-4-4 EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) – Part 4-4 Testing and measurement techniques – Electrical fast transient/burst immunity test	
EN 61000-4-5 EN 61000-4-5: 2014 +A1 EN 61000-4-5: 2014	Electromagnetic compatibility (EMC) – Part 4-5 Testing and measurement techniques – Surge immunity test	
EN IEC 61000-4-6 EN IEC 61000-4-6: 2023 EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) – Part 4-6 Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	
EN 61000-4-8 EN 61000-4-8: 2010	Electromagnetic compatibility (EMC) – Part 4 Testing and measurement techniques – Section 8 Power frequency magnetic field immunity test basic EMC publication	
EN IEC 61000-4-11 EN IEC 61000-4-11: 2020 EN 61000-4-11: 2004+A1 EN 61000-4-11: 2004	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests	
EN 61000-4-12 EN 61000-4-12: 2017	Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test	
EN 61000-4-13 EN 61000-4-13: 2002 +A1+A2	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 61000-4-16 EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
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 61000-4-29 EN 61000-4-29: 2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EN 61000-4-39 EN 61000-4-39: 2017	Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test [*9kHz to 26MHz*]	
EN IEC 61000-6-1 EN IEC 61000-6-1: 2019 EN 61000-6-1: 2007	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments	
EN IEC 61000-6-2 EN IEC 61000-6-2: 2019 EN 61000-6-2: 2005	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments	
EN IEC 61000-6-3 EN IEC 61000-6-3: 2021 EN 61000-6-3: 2007+A1 EN 61000-6-3: 2007	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments	
EN IEC 61000-6-4 EN IEC 61000-6-4: 2019 EN 61000-6-4: 2007+A1 EN 61000-6-4: 2007	Electromagnetic Compatibility (EMC) Emission standard for industrial environments	
EN IEC 61000-6-8 EN IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 61131-2 EN 61131-2: 2007	Programmable controllers, Equipment requirements and tests [*EMC sections only*]	
EN IEC 61204-3 EN IEC 61204-3: 2018 EN 61204-3: 2001	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)	
EN IEC 61326-1 EN IEC 61326-1: 2021 EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements	
EN IEC 61326-2-1 EN IEC 61326-2-1: 2021 EN 61326-2-1: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1 Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications.	
EN IEC 61326-2-2 EN IEC 61326-2-2: 2021 EN 61326-2-2: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems.	
EN IEC 61326-2-3 EN IEC 61326-2-3: 2021 EN 61326-2-3: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3 Particular requirements – Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EN IEC 61326-2-5 EN IEC 61326-2-5: 2021 EN 61326-2-5: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1.	
EN IEC 61326-2-6 EN IEC 61326-2-6: 2021 EN 61326-2-6: 2013	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. In vitro diagnostic (IVD) medical equipment.	
EN 61326-3-1 EN 61326-3-1: 2017	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) - General industrial applications.	
EN IEC 61326-3-2 EN IEC 61326-3-2: 2018 EN 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment.	
EN IEC 61547 EN IEC 61547: 2023 EN 61547: 2009	Equipment for general lighting purposes - EMC immunity requirements	
EN 61850-3 EN 61850-3: 2014	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6~~excluding 5.7.1.3 and 5.7.3~~*]	
EN IEC 61851-21-2 EN IEC 61851-21-2: 2021	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
EN IEC 61967-4 EN IEC 61967-4: 2021	Integrated circuits – Measurement of electromagnetic emissions Part 4: Measurement of conducted emissions - 1 Ω/150Ω direct coupling method	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN IEC 62040-2 EN IEC 62040-2: 2018 EN 62040-2: 2006+AC	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
EN IEC 62061 EN IEC 62061: 2021+A1 EN IEC 62061: 2021 EN 62061: 2005+A1+A2	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3*]	
EN 62233 EN 62233: 2008	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure.	
EN IEC 62311 EN IEC 62311: 2020 EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (up to 300 GHz)	
EN 62479 EN 62479: 2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	
EN 300 386 EN 300 386 v2.2.1 EN 300 386 v2.1.1 EN 300 386 v1.6.1	Telecommunication network equipment; ElectroMagnetic Compatibility (EMC) requirements	
EN 301 489-1 EN 301 489-1 v2.2.3 EN 301 489-1 v2.1.1 EN 301 489-1 v1.9.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	
EN 301 489-2 EN 301 489-2 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 2: Specific conditions for radio paging equipment	
EN 301 489-3 EN 301 489-3 v2.3.2 EN 301 489-3 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz	
EN 301 489-4 EN 301 489-4 v3.3.1 EN 301 489-4 v3.2.1 EN 301 489-4 v3.1.1 EN 301 489-4 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 4: Specific conditions for fixed radio links and ancillary equipment	
EN 301 489-5 EN 301 489-5 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 5: Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)	
EN 301 489-6 EN 301 489-6 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment	
EN 301 489-7 EN 301 489-7 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	
EN 301 489-8 EN 301 489-8 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 8: Specific conditions for GSM base stations	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 301 489-9 EN 301 489-9 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	
EN 301 489-10 EN 301 489-10 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 10: Specific conditions for First (CT1 and CT1+) and Second-Generation Cordless Telephone (CT2) equipment	
EN 301 489-11 EN 301 489-11 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 11: Specific conditions for terrestrial sound broadcasting service transmitters	
EN 301 489-12 EN 301 489-12 v3.2.1 EN 301 489-12 v3.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)	
EN 301 489-13 EN 301 489-13 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech)	
EN 301 489-14 EN 301 489-14 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitters	
EN 301 489-15 EN 301 489-15 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 15: Specific conditions for commercially available amateur radio equipment	
EN 301 489-16 EN 301 489-16 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable	
EN 301 489-17 EN 301 489-17 v3.2.4 EN 301 489-17 v3.1.1 EN 301 489-17 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 17: Specific conditions for Broadband Data Transmission Systems	
EN 301 489-18 EN 301 489-18 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 18: Specific conditions for Terrestrial Trunked Radio (TETRA) equipment	
EN 301 489-19 EN 301 489-19 v2.2.1 EN 301 489-19 v2.1.1 EN 301 489-19 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	
EN 301 489-20 EN 301 489-20 v2.2.1 EN 301 489-20 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)	
EN 301 489-22 EN 301 489-22 v2.1.1 EN 301 489-22 v1.3.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 22: Specific conditions for ground based aeronautical mobile and fixed radio equipment; Harmonised Standard for ElectroMagnetic Compatibility	
EN 301 489-23 EN 301 489-23 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 23: Specific conditions for IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 301 489-24 EN 301 489-24 v1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 24:Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	
EN 301 489-25 EN 301 489-25 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	
EN 301 489-26 EN 301 489-26 v2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 26: Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment	
EN 301 489-27 EN 301 489-27 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands	
EN 301 489-28 EN 301 489-28 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 28: Specific conditions for wireless digital video links	
EN 301 489-29 EN 301 489-29 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 29: Specific conditions for Medical Data Service Devices (MEDS) operating in the 401 MHz to 402 MHz and 405 MHz to 406 MHz bands	
EN 301 489-31 EN 301 489-31 v2.2.1 EN 301 489-31 v2.1.1 EN 301 489-31 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 31: Specific conditions for equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P	
EN 301 489-33 EN 301 489-33 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 33: Specific conditions for Ultra-Wide Band (UWB) communications devices	
EN 301 489-34 EN 301 489-34 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	
EN 301 489-35 EN 301 489-35 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands	
EN 301 489-50 EN 301 489-50 v2.3.1 EN 301 489-50 v2.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater, and ancillary equipment	
EN 301 489-51 EN 301 489-51 v2.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz	
EN 301 489-52 EN 301 489-52 v1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment	
EN 301 489-53 EN 301 489-53 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services Part 53: Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
EN 301 489-54 EN 301 489-54 v1.1.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 54: Specific conditions for fixed ground based aeronautical and meteorological radars	
EU DIRECTIVES		
EU Regulation 167/2013 EU Regulation 2015/208 EU Regulation 2018/829	EU Regulation on the approval and market surveillance of agricultural and forestry vehicles	
EU Regulation 2018/858	EU Regulation on the approval and market surveillance of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles	
EU Regulation 168/2013	EU Regulation on the approval and market surveillance of two- or three-wheel vehicles and quadricycles	
EU Regulation 2019/2144	EU Regulation on type-approval requirements for motor vehicles and their trailers, and systems, components and separate technical units intended for such vehicles, as regards their general safety and the protection of vehicle occupants and vulnerable road users	
UNITED NATIONS		
UN/ECE Addendum 9 Regulation 10 Rev 6+A1+A2 Rev 6+A1 Rev 6 Rev 5+A1+A2 Rev 5+A1 Rev 5	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 [*Sections 7, 8 , 9, 10, 17, 18, 19, 20, 21, 22*]	
IMDA SINGAPORE		
IMDA TS AR: 2016	Technical specification for Amateur Radio Equipment	
IMDA TS CBS: 2023	Technical specification for Cellular Base Station and Repeater System	
IMDA TS CT-CTS: 2016	Technical specification for Cordless Telephone and Cordless Telecommunication Systems [*excluding dect and phs*]	
IMDA TS GMPCS: 2016	Technical specification for Global Mobile Personal Communication by Satellite (GMPCS) Terminals	
IMDA TS LMR: 2016	Technical specification for Land Mobile Radio Equipment	
IMDA TS SRD: 2023	Technical specification for Short Range Devices (SRD)	
IMDA TS UWB: 2016	Technical specification for Ultra-Wideband (UWB) Devices	
IMDA TS WBA: 2016	Technical specification for Wireless Broadband Access (WBA) equipment	
INTERNATIONAL		

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
CISPR 16-2-1 CISPR 16-2-1: 2014 +A1 CISPR 16-2-1: 2014 CISPR 16-2-1: 2008+A1+A2 CISPR 16-2-1: 2008+A1 CISPR 16-2-1: 2008 CISPR 16-2-1: 2003+A1 CISPR 16-2-1: 2003	Specification for radio disturbance and immunity measuring apparatus and methods — Part 2-1: Methods of measurement of disturbances and immunity — Conducted disturbance measurements	
CISPR 16-2-2 CISPR 16-2-2: 2010 CISPR 16-2-2: 2003+A1+A2 CISPR 16-2-2: 2003+A1 CISPR 16-2-2: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power	
CISPR 16-2-3 CISPR 16-2-3: 2016+A1+A2 CISPR 16-2-3: 2016+A1 CISPR 16-2-3: 2016 CISPR 16-2-3: 2010+A1+A2 CISPR 16-2-3: 2010+A1 CISPR 16-2-3: 2010 CISPR 16-2-3: 2003+A1+A2 CISPR 16-2-3: 2003+A1 CISPR 16-2-3: 2003	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	
IACS UR E10 IACS UR E10 r10: 2024 IACS UR E10 r09: 2023 IACS UR E10 r08: 2021	Requirements concerning Electrical and Electronic Installations: Test Specification for Type Approval [*Sections 3, 4, 9, 10, 13, 14, 15, 16, 17, 18, 19, & 20*]	
IEC 60034-1: 2010	Rotating electrical machines – Part 1 [*Section 13*]	
IEC 60533 IEC 60533: 2015 IEC 60533: 1999	Electromagnetic compatibility of electrical and electronic installations in ships	
IEC 60601-1-2 IEC 60601-1-2: 2014+A1 IEC 60601-1-2: 2014 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 IEC 60601-2-2: 2017 IEC 60601-2-2: 2009	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*]	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
IEC 60601-2-22 IEC 60601-2-22: 2019 IEC 60601-2-22: 2007+A1	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: 2012	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*]	
ISO 80601-2-55 ISO 80601-2-55: 2018	Medical electrical equipment. Particular requirements for the basic safety and essential performance of respiratory gas monitors [*EMC sections only*]	
IEC 60730-1	Automatic electrical controls for household and similar use - Part 1 General requirements [*EMC Sections Only*]	
IEC 60730-2-9	Automatic electrical controls for household and similar use – Part 2: Particular requirements	
IEC 60945 IEC 60945: 2002	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results	
IEC 61000-6-1 IEC 61000-6-1: 2016	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-2 IEC 61000-6-2: 2016	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments	
IEC 61000-6-3 IEC 61000-6-3: 2020 IEC 61000-6-3: 2006+A1	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments	
IEC 61000-6-4 IEC 61000-6-4: 2018 IEC 61000-6-4: 2006+A1	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments	
IEC 61000-6-8 IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	
IEC 61326-1 IEC 61326-1: 2020 IEC 61326-1: 2012 IEC 61326-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements	
IEC 61326-2-1 IEC 61326-2-1: 2020 IEC 61326-2-1: 2012 IEC 61326-2-1: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1 Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
IEC 61326-2-2 IEC 61326-2-2: 2020 IEC 61326-2-2: 2012 IEC 61326-2-2: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2 Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
IEC 61326-2-3 IEC 61326-2-3: 2020 IEC 61326-2-3: 2012 IEC 61326-2-3: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3 Particular requirements - Test configurations, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
IEC 61326-2-5 IEC 61326-2-5: 2020 IEC 61326-2-5: 2012 IEC 61326-2-5: 2006	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5 Particular requirements - Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC 61784-1	
IEC 61326-2-6 IEC 61326-2-6: 2020 IEC 61326-2-6: 2012 IEC 61326-2-6: 2005	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6 Particular requirements. - Test configurations, operational conditions and performance criteria In vitro diagnostic (IVD) medical equipment	
IEC 61326-3-1 IEC 61326-3-1: 2017 IEC 61326-3-1: 2008	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) - General industrial applications	
IEC 61326-3-2 IEC 61326-3-2: 2017 IEC 61326-3-2: 2008	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2 Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety). Industrial applications with specified electromagnetic environment.	
IEC 61547 IEC 61547: 2020	Equipment for general lighting purposes - EMC immunity requirements	
IEC 61850-3 IEC 61850-3: 2013	Communication Networks and Systems in Substations [*Section 6.7, excluding tests 10.3, 11.4, 12.6*	
IEC 61851-21-2 IEC 61851-21-2: 2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
IEC 62040-2 IEC 62040-2: 2016	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements	
IEC 62061 IEC 62061: 2021+A1 IEC 62061: 2021	Safety of machinery - functional safety of safety related electrical, electronic & programmable control systems [2021: *Section 6.6*, 2005: *Section 6.4.3*]	
ISO 22200: 2009	Electromagnetic compatibility — Product family standard for lifts, escalators and moving walks — Immunity	
JAPAN		
JIS C 61326-1	Electrical equipment for measurement, control and laboratory use - Electromagnetic compatibility (EMC) requirements - Part 1: General requirements	
VCCI-CISPR 32 VCCI-CISPR 32: 2016	Electromagnetic compatibility of multimedia equipment - Emission Requirements	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
KOREA, REPUBLIC OF		
KS C 9811	CISPR 11: 2015 +A1 [*3m only*]	
KS C 9814-1	CISPR 14-1: 2020 [3m only, excluding clicks]	
KS C 9814-2	CISPR 14-2: 2020	
KS C 9815	CISPR 15: 2018 [*3m only*]	
KS C 9832	CISPR 32: 2015 [*3m only*]	
KS C 9835	CISPR 35: 2016	
KS B 6945	EN 12016: 2013	
KS X 3124	EN 301 489-01 v2.1.1 [*8.2: 3m only*]	
KS X 3137	EN 301 489-02 v1.3.1 [*7.1: 3m only*]	
KS X 3125	EN 301 489-03 v1.6.1 [*7.1: 3m only*]	
KS X 3127	EN 301 489-05 v1.3.1 [*7.1: 3m only*]	
KS X 3128	EN 301 489-06 v1.4.1 [*7.1: 3m only*]	
KS X 3129	EN 301 489-52 v1.1.0 [*7.1.1, 7.2.1: 3m only*]	
KS X 3130	EN 301 489-09 v1.4.1 [*7.1: 3m only*]	
KS X 3131	EN 301 489-13 v1.2.1 [*7.1: 3m only*]	
KS X 3136	EN 301 489-15 v2.1.1 [*7.1: 3m only*]	
KS X 3126	EN 301 489-17 v2.1.1 [*7.1: 3m only*]	
KS X 3132	EN 301 489-18 v1.3.1 [*7.1: 3m only*]	
KS X 3139	EN 301 489-20 v1.2.1 [*7.1: 3m only*]	
KS X 3134	EN 301 489-27 v2.1.1 [*7.1: 3m only*]	
KS X 3138	EN 301 489-32 v1.1.1 [*7.1: 3m only*]	
KS X 3135	EN 301 489-50 v2.1.1 [*7.1: 3m only*]	
KS C IEC 60601-1-2 KS C IEC 60601-1-2: 2012	IEC 60601-1-2: 2014+A1 [*7: 3m only*] IEC 60601-1-2: 2007 [*6.1: 3m only*]	
KS X 3140	IEC 60945: 2002; IEC 60533: 1999 [*3m only*]	
KS C 9610-6-1	IEC 61000-6-1: 2016	
KS C 9610-6-2	IEC 61000-6-2: 2016	
KS C 9610-6-3	IEC 61000-6-3: 2006+A1 [*3m only*]	
KS C 9610-6-4	IEC 61000-6-4: 2018 [*3m only*]	
KS C 9547	IEC 61547: 2009	
TAIWAN / CHINESE TAIPEI		
LP0002 LP0002: 2024	Low-power Radio-frequency Devices Technical Regulations [*excluding SAR*]	
RTTE01 RTTE01: 2020	2.4GHz Radio-frequency Telecommunications terminal equipment technical specification	
VIETNAM		
TCVN 7189: 2009	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
TCVN 7317: 2003	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	
UNITED STATES		
47 CFR Part 11	Emergency alert system (EAS)	
47 CFR Part 15	Radio frequency devices	
47 CFR Part 18	Industrial, scientific and medical equipment	

STANDARD [2,3]:	DESCRIPTION OF STANDARD:	CANYON PARK
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 RESNA WC-2: 2009	Electrically powered wheelchairs and scooters, and their chargers - requirements and test methods [*Section 21 only*]	
Telcordia GR-1089-CORE 2017	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. [*Sections: 2, 3, & 4*]	

[2] When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements: Accreditation of Conformity Assessment Bodies*.

[3] ANSI C63.4a:2017 is used to perform NSA in support of ANSI C63.4:2014 and should not be considered its own test method.

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 [4]:		
Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
Unintentional Radiators		
Part 15B	ANSI C63.4: 2014	40000
Industrial, Scientific, and Medical Equipment		
Part 18	FCC MP-5: 1986	325000
Intentional Radiators		
Part 15C	ANSI C63.10: 2013	325000
Unlicensed Personal Communication Systems Devices		
Part 15D	ANSI C63.17: 2013	40000
U-NII without DFS Intentional Radiators		
Part 15E	ANSI C63.10: 2013	40000
U-NII with DFS Intentional Radiators		
Part 15E	FCC KDB 905462 D02 (v02)	40000
UWB Intentional Radiators		
Part 15F	ANSI C63.10: 2013	325000
BPL Intentional Radiators		
Part 15G	ANSI C63.10: 2013	325000
White Space Device Intentional Radiators		
Part 15H	ANSI C63.10: 2013	325000
Commercial Mobile Services (FCC Licensed Radio Service Equipment)		
Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26: 2015	325000
General Mobile Radio Services (FCC Licensed Radio Service Equipment)		
Parts 22 (non-cellular), 90 (below 3 GHz), 95, 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26: 2015	325000
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)		
Part 96	ANSI/TIA-603-E; TIA-102.CAAA-E;	325000

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 [4]:		
Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
	ANSI C63.26: 2015	
Maritime and Aviation Radio Services		
Parts 80 and 87	ANSI/TIA-603-E; OR ANSI C63.26: 2015	325000
Microwave and Millimeter Bands Radio Services		
Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26: 2015	325000
Broadcast Radio Services		
Parts 73 and 74 (below 3 GHz)	ANSI/TIA-603-E; OR TIA-102.CAAA-E; OR ANSI C63.26: 2015	325000
Signal Boosters		
Part 20 (Wideband Consumer Signal Boosters, Provider-specific Signal Boosters, and Industrial Signal Boosters), Section 90.219	ANSI C63.26: 2015	325000

[4] 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:
This accreditation covers testing performed at all laboratory locations listed in this scope of accreditation.
Limitations for listed standards are indicated by square brackets.
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 24th day of January 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0803.01
Valid to March 31, 2027

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