

#### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

# CKC LABORATORIES, INC.<sup>1</sup> 110 North Olinda Place Brea, CA 92823 Steve Behm Phone: 209 966 5240

#### ELECTRICAL (EMC)

Valid to: March 31, 2019 Certificate Number: 0803.02

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 satellite laboratory location listed below*, to perform the following Emissions, Immunity, Wireless, and Military tests for electrical equipment:

<b>STANDARD</b>	DESCRIPTION OF STANDARD
AUSTRALIA / NEW Z	<u>EALAND</u>
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:	Electromagnetic Compatibility (EMC) Emission standard for residential,
2012	commercial and light-industrial environments
AS/NZS 61000-6-4:	Electromagnetic Compatibility (EMC) Emission standard for industrial
2012	environments
	AMCA Radiocommunications (Short Range Devices) Standard: 2014
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of
	measurement
AS/NZS 4768.1	Digital radio equipment operating in land mobile and fixed services bands in the
	frequency range 29.7 MHz to 1 GHz
AS/NZS CISPR 11:	Industrial, Scientific and Medical (ISM) radio frequency equipment -
2011	Electromagnetic disturbance characteristics - Limits and methods of
	measurement
AS/NZS CISPR 14.1:	Electromagnetic compatibility - Requirements for household appliances, electric
2013	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 22:	Information technology equipment - Radio disturbance characteristics - Limits
2009 + A1	and methods of measurement
AS/NZS CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission
	Requirements

(A2LA Cert. No. 0803.02) Revised 12/31/2018

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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 to 768) MHz and (788 to 798) MHz RSS-141 Aeronautical radio communication equipment in the frequency band (117.975 to 137) MHz RSS-142 Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands	STANDARD	DESCRIPTION OF STANDARD
BETS-1 Technical standards and requirements for low power announce transmitters in the frequency bands (525 to 1705) kHz and (88 to 107.5) MHz BETS-4 Technical standards and requirements for television broadcasting transmitters BETS-5 Technical standards and requirements for FM broadcasting transmitters BETS-6 Technical standards and requirements for FM broadcasting transmitters BETS-7 Technical standards and requirements for FM broadcasting transmitters BETS-8 Technical standards and requirements for FM transmitters operating in small remote communities  BETS-9 Technical standards and requirements for FM transmitters operating in small remote communities  BETS-9 Technical standards and requirements for television transmitters operating in small remote communities  Industrial, Scientific and Medical (ISM) radio frequency generators  ICES 003 Information Technology Equipment (ITE) - Limits and methods of measureme (ICES 004 Alternating current high voltage power systems  ICES 005 Radio frequency lighting devices  ICES 006 AC wire carrier current devices (unintentional radiators)  RSS-102 Evaluation procedure for mobile and portable radio transmitters with respect to health Canada's safety code 6 for exposure of humans to radio frequency fields [except SAR]  RSS-111 Broadband public safety equipment operating in the band (1670 to 1675) MHz  RSS-112 Land mobile and fixed equipment operating in the band (1670 to 1675) MHz  RSS-113 Low power licensed radio transmitters and receivers (27.41 to 960) MHz  RSS-125 Land mobile and fixed radio transmitters and receivers (1.705 to 50.0) MHz, primarily amplitude modulated  RSS-125 Land mobile and fixed radio transmitters and receivers (1.705 to 50.0) MHz, primarily amplitude modulated  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 BO0 MHz Cellular telephones employing new technologies  RSS-133 QGHz Personal communication services  RSS-134 Q	CANADA	
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RSS-127 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 to 768) MHz and (788 to 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		
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RSS-140 Equipment operating in the public safety broadband frequency bands (758 to 768) MHz and (788 to 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-140 Equipment operating in the public safety broadband frequency bands (758 to 768) MHz and (788 to 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-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-140	Equipment operating in the public safety broadband frequency bands (758 to
RSS-142 Narrowband multipoint communication systems in the (1427 to 1430) MHz and (1493.5 to 1496.5) MHz bands	RSS-141	Aeronautical radio communication equipment in the frequency band
	RSS-142	Narrowband multipoint communication systems in the (1427 to 1430) MHz and
KSS-1/U   Satellite mobile earth stations	RSS-170	Satellite mobile earth stations



CANADA (cont.)  RSS-181   Coast and ship station single sideband radiotelephone transmitters and receiv operating in the (1605 to 28000) kHz band   RSS-182   Maritime radio transmitters and receivers in the band (156 to 162.5) MHz   RSS-191   Local multipoint communication systems in the 28 GHz band, point-to-poin point-to-multipoint broadband communication systems in the (24 to 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 system (RRBS) (TV Channels 21 to 51)   RSS-197   Wireless broadband access equipment operating in the band (3650 to 3700) MHz   RSS-199   Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz   RSS-210   Low power license exempt radio communication devices (All frequency bands RSS-211   Level Probing Radar Equipment   RSS-213   2 GHz License exempt personal communications service devices (PCS)   RSS-215   Analogue scanner receivers   RSS-216   Wireless Power Transfer Devices (Wireless Chargers)   RSS-220   Devices using ultra-wideband (UWB) technology   RSS-236   General radio service equipment operating in the band (26.960 to 27.410) M   RSS-238   Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands   RSS-243   Active medical implant communications system devices in the band	
RSS-182 Maritime radio transmitters and receivoperating in the (1605 to 28000) kHz band  RSS-182 Maritime radio transmitters and receivers in the band (156 to 162.5) MHz  RSS-191 Local multipoint communication systems in the 28 GHz band, point-to-poin point-to-multipoint broadband communication systems in the (24 to 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 system (RRBS) (TV Channels 21 to 51)  RSS-197 Wireless broadband access equipment operating in the band (3650 to 3700) MHz  RSS-199 Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz  RSS-210 Low power license exempt radio communication devices (All frequency bands RSS-211 Level Probing Radar Equipment  RSS-213 2 GHz License exempt personal communications service devices (PCS)  RSS-215 Analogue scanner receivers  RSS-216 Wireless Power Transfer Devices (Wireless Chargers)  Devices using ultra-wideband (UWB) technology  RSS-220 Devices using ultra-wideband (UWB) technology  RSS-236 General radio service equipment operating in the band (26.960 to 27.410) M  RSS-238 Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz	
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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 system (RRBS) (TV Channels 21 to 51)  RSS-197 Wireless broadband access equipment operating in the band (3650 to 3700) MHz  RSS-199 Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz  RSS-210 Low power license exempt radio communication devices (All frequency bands RSS-211 Level Probing Radar Equipment 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) M  RSS-238 Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands (2,900 to 3,100) MHz and (9,225 to 9,500) MHz	
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RSS-196 Point-to-multipoint broadband equipment operating in the bands (512 to 608) MHz and (614 to 698) MHz for rural remote broadband system (RRBS) (TV Channels 21 to 51)  RSS-197 Wireless broadband access equipment operating in the band (3650 to 3700) MHz  RSS-199 Broadband radio service (BRS) equipment operating in the band (2500 to 2690) MHz  RSS-210 Low power license exempt radio communication devices (All frequency ban 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) M RSS-238 Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Ban	
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RSS-236 General radio service equipment operating in the band (26.960 to 27.410) M RSS-238 Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bar	
RSS-238 Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bar	
RSS-243 Active medical implant communications system devices in the band	1 <u>S</u>
(402 to 405) MHz	
RSS-244 Medical Devices Operating in the Band 413-457 MHz	
RSS-247 Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs).	and
License-Exempt Local Area Network (LE-LAN) Devices (excluding DFS)	and
RSS-251 Field disturbance sensors in the bands 46.7-46.9 GHz and 76-77 GHz	
RSS-252 Intelligent transportation system – 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 band	s)
category II equipment	,
RSS-GEN General requirements and information for the certification of radio	
communication equipment	



STANDARD	DESCRIPTION OF STANDARD
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EUROPEAN UNION	
EN 12015	Electromagnetic compatibility - Product family standard for lifts, escalators and passenger conveyors – emission
EN 12016	Electromagnetic compatibility - Product family standard For lifts, escalators and passenger conveyors – immunity
EN 12184	Electrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 9.8 Only]
EN 13763-26	Explosives for civil uses – Detonators and relays – Part 26
EN 50065-1	Specification for signaling on low-voltage electrical installations in the frequency range (3 to 148.5) kHz - Part 1 General requirements, frequency bands and electromagnetic disturbances
EN 50065-2-1, 2, 3	Specification for signaling on low-voltage electrical installations in the frequency range (3 kHz to 148.5) kHz - Part 2 Immunity requirements for mains communications equipment and systems operating in the range of frequencies (95 to 1485) kHz
EN 50083-2	Cable networks for television signals, sound signals and interactive services - Part 2 Electromagnetic compatibility for equipment
EN 50121-1	Railway applications - Electromagnetic compatibility - Part 1 General
EN 50121-3-2	Railway applications - Electromagnetic compatibility - Part 3-2 Rolling stock - apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4 Emission and immunity of the signalling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4 Electromagnetic compatibility - Product family standard - Immunity requirements for components of fire, intruder and social alarm systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test (900MHz, 5MHz Keyed Carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1 Emissions.
EN 50370-2	Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 2 Immunity
EN 55011	Industrial, scientific and medical (ISM) radio-frequency equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55013	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
EN 55014-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1 Emission [excluding clicks]
EN 55014-2	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2 Immunity - Product family standard
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55020	Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement [excluding section 5.8]
EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 55024	Information technology equipment - Immunity characteristics - Limits and
	methods of measurement
EN 55032	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035	Electromagnetic compatibility of multimedia equipment - Immunity
	requirements
EN 55103-1	Electromagnetic compatibility - Product family standard for audio, video, audio-
	visual and entertainment lighting control apparatus for professional use -
	Emission
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-
	visual and entertainment lighting control apparatus for professional use -
	Immunity
EN 60601-1-2	Medical electrical equipment - Part 1-2 General requirements for safety -
	Collateral standard - Electromagnetic compatibility - requirements and tests
EN 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of
	high frequency surgical equipment
EN 60601-2-4	Medical electrical equipment - Part 2-4 Particular requirements for the safety of
	cardiac defibrillators [EMC sections only]
EN 60601-2-10	Medical electrical equipment - Part 2.10 Particular requirements for the safety of
	nerve and muscle stimulators [EMC sections only]
EN 60601-2-12	Medical electrical equipment - Part 2-12 Particular requirements for the safety of
	lung ventilators - Critical care ventilators [EMC sections only]
EN 60601-2-22	Medical electrical equipment - Part 2 Particular requirements for the safety of
	diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of
	infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance
	of electroencephalographs
EN 60601-2-34	Medical electrical equipment - Part 2-34 Particular requirements for the safety,
	including essential performance, of invasive blood pressure monitoring
	equipment [EMC sections only]
EN 60601-2-37	Medical electrical equipment - Part 2-37 Particular requirements for the safety of
	ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the basic
	safety and essential performance of ambulatory electrocardiographic systems
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic
	safety and essential performance of high intensity therapeutic ultrasound (HITU)
	equipment
EN 60730-1	Automatic electrical controls for household and similar use - Part 1 General
	requirements [EMC Sections Only]
EN 60730-2-5 thru 9,	Automatic electrical controls for household and similar use - Part 2 Particular
11, 13, 14, 18	requirements
EN 60945	Maritime navigation and radio communication equipment and systems - General
	requirements - Methods of testing and required test results
EN 60974-10	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC)
	requirements
EN 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for
	harmonic current emissions (equipment input current ≤ 16 A per phase)



STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	
EN 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
EN 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
EN 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
EN 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
EN 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-13	Electromagnetic compatibility (EMC) - Part 4 Testing and measuring techniques - Section 13 Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
EN 61000-6-1	Electromagnetic Compatibility (EMC) Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2	Electromagnetic Compatibility (EMC) Generic standards immunity for industrial environments
EN 61000-6-3	Electromagnetic Compatibility (EMC) Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4	Electromagnetic Compatibility (EMC) Emission standard for industrial environments
EN 61131-2	Programmable controllers, Equipment requirements and tests [EMC sections only]
EN 61204-3	Low voltage power supplies, DC output - Part 3 Electromagnetic Compatibility (EMC)
EN 61326-1	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1 General requirements
EN 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2 Particular requirements - Test configurations, operational conditions and performance criteria
EN 61547	Equipment for general lighting purposes - EMC immunity requirements
EN 62040-2	Uninterruptible power systems (UPS) - Part 2 Electromagnetic compatibility (EMC) requirements
EN 62061	Safety of machinery – functional safety of safety related electrical, electronic & programmable control systems [section 6.4.3, ref Annex E]



<b>STANDARD</b>	DESCRIPTION OF STANDARD
EUROPEAN UNIO	
EN 62233	Measurement methods for electromagnetic fields of household appliances and
ENI (2211	similar apparatus with regard to human exposure.
EN 62311	Assessment of electronic and electrical equipment related to human exposure
EN 200 006	restrictions for electromagnetic fields (0 Hz - 300 GHz)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF
EN 300 086-2	connector intended primarily for analogue speech
EN 300 080-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land mobile service - Radio equipment with an internal or external RF connector
	intended primarily for analogue speech
EN 300 113-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land
EN 300 113-2	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 300 219-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land
LIV 300 217 2	mobile service - Radio equipment transmitting signals to initiate a specific
	response in the receiver
EN 300 220-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
21, 300 220 2	range devices (SRD) - Radio equipment to be used in the (25 to 1000) MHz
	frequency range with power levels ranging up to 500 mW
EN 300 224-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - On-site
	paging service
EN 300 328	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wideband
	transmission systems - Data transmission equipment operating in the 2.4 GHz
	ISM band and using spread spectrum modulation techniques
EN 300 330-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
	Range Devices (SRD) - Radio equipment in the frequency range
	9 kHz to 25 MHz and inductive loop systems in the frequency range
	9 kHz to 30 MHz
EN 300 386	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
	Telecommunication network equipment - Electromagnetic Compatibility (EMC)
	requirements
EN 300 422-1	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers
EN 300 422-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireless
	microphones in the 25 MHz to 3 GHz frequency range
EN 300 433-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Land
	mobile service - Double Side Band (DSB) and/or Single Side Band (SSB)
	amplitude modulated citizen's band radio
EN 300 440-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
	range devices - Radio equipment to be used in the (1 to 40) GHz frequency
EN 300 454-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wide band
	audio links
EN 301 357-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Cordless
	audio devices in the range (25 to 2,000) MHz - Consumer radio microphones and
	in-ear monitoring systems operating in the CEPT harmonized band
	(863 to 865) MHz



STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	(cont)
EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
EIN 301 469-1	Electromagnetic Compatibility (EMC) standard for radio equipment and services
	- Part 1 Common technical requirements
EN 301 489-2 thru	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
35, 50	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services
55, 50	Parts 2-34, specific conditions
EN 301 502	Harmonized EN for Global System for Mobile Communications (GSM) - Base
LIV 301 302	Station and Repeater equipment
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital
21, 301 0 10 2	wireless microphones operating in the CEPT harmonized band
	(1785 to 1800) MHz
EN 301 893	Broadband Radio Access Networks (BRAN) - 5 GHz high performance RLAN
	[except DFS testing]
EN 301 908-1 thru 22	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Base
	Stations (BS) and Repeaters for IMT-2000 Third-Generation cellular networks
	[-1, -3, -5, -7, -9, -11, -12, -14, -15, -17, -18, -20, & -22]
EN 302 064-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Wireless
	Video Links (WVL) operating in the (1.3 to 50) GHz frequency band
EN 302 065	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Ultra
	WideBand (UWB) technologies for communication purposes
EN 302 066-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Ground-
	and Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD); Ultra Low Power Active Medical Implants (ULP-
	AMI) and accessories (ULP-AMI-P) operating in the frequency range 9 kHz to
TN 200 10 5 0	315 kHz
EN 302 195-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radio
	equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active
EN 202 200 2	Medical Implants (ULP-AMI) and accessories
EN 302 208-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Radio
	Frequency Identification Equipment operating in the band (865 to 868) MHz with power levels up to 2 W
EN 302 291-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
EN 302 291-2	Range Devices (SRD) - Close Range Inductive Data Communication equipment
	operating at 13.56 MHz
EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2:
LIV 302 320-2	Digital Multipoint Radio Equipment
EN 302 326-3	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3:
21,002,020,0	Multipoint Radio Antennas
EN 302 500-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Short
	Range Devices (SRD) using Ultra WideBand (UWB) technology - location
	tracking equipment operating in the frequency range from (6 to 8.5) GHz
EN 302 502	Broadband Radio Access Networks (BRAN) – 5.8 GHz fixed broadband data
	transmitting systems
EN 302 645	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Short range
	devices; global navigation satellite systems (GNSS) repeaters



STANDARD	DESCRIPTION OF STANDARD
STANDARD	DESCRIPTION OF STANDARD
IMDA SINGAPORE	
IMDA TS CT-CTS	Technical specification for cordless telephone and cordless telecommunication
	systems [excluding dect and phs]
IMDA TS SRD	Technical specification for short range devices
IMDA TS AR	Technical specification for amateur radio equipment
IMDA TS WBA	Technical specification for wireless broadband access (WBA) equipment
IMDA TS LMR	Technical specification for land mobile radio equipment
IMDA TS CBS	Technical specification for cellular base station and repeater system
IMDA TS UWB	Technical specification for ultra-wideband (UWB) devices
IMDA TS GMPCS	Technical specification for global mobile personal communication by satellite
	(GMPCS) terminals
<u>INTERNATIONAL</u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment -
	Electromagnetic disturbance characteristics - Limits and methods of
CISPR 13	measurement
CISPR 13	Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric
CISPR 14-1	tools and similar apparatus - Part 1 Emission [excluding clicks]
CISPR 14-2	Electromagnetic compatibility - Requirements for household appliances, electric
CISFK 14-2	tools, and similar apparatus - Part 2 Immunity-Product Family Standard
CISPR 15	Limits and methods of measurement of radio disturbance characteristics of
CISIK 13	electrical lighting and similar equipment
CISPR 20	Sound and television broadcast receivers and associated equipment - Immunity
C151 IC 20	characteristics - Limits and methods of measurement [excluding section 5.8]
CISPR 22	Information technology equipment - Radio disturbance characteristics - Limits
	and methods of measurement
CISPR 24	Information technology equipment - Immunity characteristics - Limits and
	methods of measurement
CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission
	requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Immunity
	requirements
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2	Medical electrical equipment - Part 1 General requirements for safety 2 -
	Collateral standard - Electromagnetic compatibility - Requirements and tests
IEC 60601-2-2	Medical electrical equipment - Part 2-2 Particular requirements for the safety of
	high frequency surgical equipment
IEC 60601-2-10	Medical electrical equipment - Part 2.10 Particular requirements for the safety of
	nerve and muscle stimulators [EMC sections only]
IEC 60601-2-24	Medical electrical equipment - Part 2-24 Particular requirements for the safety of
	infusion pumps and controllers [EMC sections only]
IEC 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance
TT 0 00 00 1 5 5 5	of electroencephalographs
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

STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL	
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
IEC 60601-2-47	Medical electrical equipment - Part 2-47 Particular requirements for the safety, including essential performance, of ambulatory electrocardiographic systems
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
IEC 60945	Maritime navigation and radio communication equipment and systems - General requirements - Methods of testing and required test results
IEC 60974-10	Arc welding equipment - Part 10 Electromagnetic compatibility (EMC) requirements
IEC 61000-3-2	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 2 Limits for harmonic current emissions (equipment input current \le 16 A per phase)
IEC 61000-3-3	Electromagnetic Compatibility (EMC) - Part 3 Limits - Section 3 Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤ 16 A
IEC 61000-4-2	Electromagnetic compatibility (EMC) - Part 4-2 Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3	Electromagnetic compatibility (EMC) - Part 4-3 Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-4	Electromagnetic compatibility (EMC) - Part 4-4 Testing and measurement techniques - Electrical fast transient/burst immunity test
IEC 61000-4-5	Electromagnetic compatibility (EMC) - Part 4-5 Testing and measurement techniques - Surge immunity test
IEC 61000-4-6	Electromagnetic compatibility (EMC) - Part 4-6 Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
IEC 61000-4-8	Electromagnetic compatibility (EMC) - Part 4 Testing and measurement techniques - Section 8 Power frequency magnetic field immunity test basic EMC publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4 testing and measuring techniques - Section 11 Voltage dips, short interruptions and voltage variations immunity tests
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measurement techniques - Harmonics and interharmonics including mains signaling at A.C. power port, low frequency immunity tests
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic capability (EMC) - Part 6-2 Generic Standards - Immunity for industrial environments
IEC 61000-6-3	Electromagnetic capability (EMC) - Part 6-3 Generic Standards - Emissions standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic capability (EMC) - Part 6-4 Generic Standards - Immunity for residential, commercial, and light-industrial environments
IEC 61131-2	Programmable controllers Part 2 Equipment requirements and tests [EMC sections only]



<u>STANDARD</u>	DESCRIPTION OF STANDARD
INTERNATIONAL (c	
IEC 61326-1	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 1 General requirements
IEC 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 2 Particular requirements - Test configurations, operational
	conditions and performance criteria
IEC 61326-3-1, 2	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 3 Immunity requirements for safety-related systems and for
	equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 62061	Safety of machinery - functional safety of safety related electrical, electronic &
	programmable control systems (note: only capable of performing EMC testing
	for section 6.4.3, ref Annex E)
IEC 62233	Measurement methods for electromagnetic fields of household appliances and
	similar apparatus with regard to human exposure.
IEC 62311	Assessment of electronic and electrical equipment related to human exposure
	restrictions for electromagnetic fields (0 Hz - 300 GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment
	with the basic restrictions related to human exposure to electromagnetic fields
	(10 MHz to 300 GHz)
<u>ISO</u>	
ISO 11452-2	Road vehicles - Component test methods for electrical disturbances from
	narrowband radiated electromagnetic energy - Part 2 Absorber-lined shielded
	enclosure
ISO 11452-4	Road vehicles - Component test methods for electrical disturbances from
ISO 11452-4: 2011	narrowband radiated electromagnetic energy - Part 4 Harness excitation methods
	(BCI method only)
ISO 11452-4: 2005	Road vehicles - Component test methods for electrical disturbances from
ISO 11452-4: 2001	narrowband radiated electromagnetic energy - Part 4 Bulk current injection
	(BCI)
ISO 11452-8	Road vehicles - Component test methods for electrical disturbances from
ISO 11452-8: 2015	narrowband radiated electromagnetic energy - Part 8 Immunity to magnetic
ISO 11452-8: 2007	fields
11452-10	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
JAPAN	
VCCI V-3	Technical Requirements
(up to 6 GHz)	Teenment Requirements
VCCI-CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission
V CCI-CIBI IX J2	Requirements
	Requirements



STANDARD	DESCRIPTION OF STANDARD
WODEL DEDUDING	
KOREA, REPUBLIC KN 11	OF CISPR 11: 2015
KN 13	CISPR 13: 2006
KN 14-1	CISPR 14-1: 2008
KN 14-1 KN 14-2	CISPR 14-2: 2008
KN 15	CISPR 15: 2013
KN 17	Test Methods of radio disturbance for residential wireless power-transmission
IXIV 17	equipment [excluding clicks]
KN 20	CISPR 20: 2006
KN 22	CISPR 22: 2006
KN 24	CISPR 24: 2010
KN 32	CISPR 32: 2012
KN 35	CISPR/I/412/CDV (2012) +Korea interpretations list
KN 12015	EN 12015: 2004
KN 12016	EN 12016: 2013
KN 301 489-01	EN 301 489-01 v1.8.1
KN 301 489-02	EN 301 489-02 v1.3.1
KN 301 489-03	EN 301 489-03 v1.4.1
KN 301 489-05	EN 301 489-05 v1.3.1
KN 301 489-06	EN 301 489-06 v1.3.1
KN 301 489-07	EN 301 489-07 v1.2.1
KN 301 489-09	EN 301 489-09 v1.4.1
KN 301 489-13	EN 301 489-13 v1.2.1
KN 301 489-15	EN 301 489-15 v1.2.1
KN 301 489-17	EN 301 489-17 v2.1.1
KN 301 489-18	EN 301 489-18 v1.3.1
KN 301 489-20	EN 301 489-20 v1.2.1
KN 301 489-24	EN 301 489-24 v1.3.1
KN 301 489-26	EN 301 489-26 v2.3.2
KN 301 489-27	EN 301 489-27 v1.1.1
KN 301 489-32	EN 301 489-32 v1.1.1
KN 60601-1-2	IEC 60601-1-2: 2004
KN 60945/60533	IEC 60945: 2002; IEC 60533: 1999
KN 60974-10	IEC 60974-10: 2011
KN 61000-3-2	IEC 61000-3-2:2009-04
KN 61000-3-3	IEC 61000-3-3:2008-06
KN 61000-6-1	IEC 61000-6-1: 2011
KN 61000-6-2	IEC 61000-6-2: 2011
KN 61000-6-3	IEC 61000-6-3: 2011
KN 61000-6-4	IEC 61000-6-4: 2011
KN 61547	IEC 61547: 2009
KN 62040-2	IEC 62040-2: 2005
Enforcement Decree of MSIP NO. 78,	Regulations on Radio Equipment [excluding DFS and SAR]
Aug 12, 2016	



<b>STANDARD</b>	DESCRIPTION OF STANDARD
KUDEN DEDITOLIC	OF (cont.)
KOREA, REPUBLIC  MSIP Public	Unlicensed Radio Equipment Established without Notice [excluding DFS and
Notification 2016-	SAR
127, Dec 6, 2016)	
RRA Public	Technical Requirements of Radio Wave Application
Notification 2016-20,	reclinical requirements of rauto wave replication
Sep 27, 2016	
RRA Announce	Conformity Assessment Procedure of Radio Equipment
2015-135;	Conformity Assessment Frocedure of Radio Equipment
KS X 3123	
SAE	
SAE J551-1	Performance levels and methods of measurement of electromagnetic
	compatibility of vehicles, boats (up to 15 m), and machines 16.6 Hz to 18 GHz
SAE J551-2	Test limits and methods of measurement of radio disturbance characteristics of
	vehicles, motorboats, and spark-ignited engine- driven devices
SAE J551-5	Performance levels and methods of measurement of magnetic and electric field
GAE 1551 11	strength from electric vehicles, broadband, 9 kHz to 30 MHz
SAE J551-11	Vehicle electromagnetic immunity - off-vehicle source
SAE J551-12	Vehicle electromagnetic immunity - on-board transmitter simulation
SAE J551-13	(R) vehicle electromagnetic immunity - bulk current injection
SAE J551-17	(R) vehicle electromagnetic immunity - power line magnetic fields
SAE J1113-2	Electromagnetic compatibility measurement procedures and limits for vehicle components ( <i>except aircraft</i> ) - conducted immunity, 15 Hz to 250 kHz - all leads
SAE J1113- 22	Electromagnetic compatibility measurement procedure for vehicle components -
	Part 22 - immunity to radiated magnetic fields
SAE J1455	Joint SAE/TMC recommended environmental practices for electronic equipment
	design (heavy-duty trucks) [Sections: 4.13.1, 4.13.2 and 4.13.3]
SAE J1752-2	Measurement of radiated emissions from integrated circuits - surface scan
	method (loop probe method) 10 MHz to 3 GHz
SAE J1752-3	(R) measurement of radiated emissions from integrated circuits - tem/wideband
	tem (GTEM) cell method; tem cell 150 kHz to 1 GHz, wideband tem cell
	150 kHz to 8 GHz [ <i>up to 1.2GHz</i> ]
TAIWAN / CHINESE	TAIPEI
CNS 13306	Specification for radio disturbance and immunity measuring apparatus and
	methods Part 1 - Radio disturbance and immunity measuring apparatus.
CNS 13438	Limits and methods of measurement of radio interference characteristics of
(up to 6 GHz)	information technology equipment (ITE)
CNS 13439	Limits and methods of measurement of radio interference characteristics of
	sound and television broadcast receiver and associated equipment.
CNS 13803	Limits and methods of measurement of electromagnetic disturbance
	characteristics of industrial, scientific and medical (ISM) radio-frequency
	equipment.
LP0002	Low-power Radio-frequency Devices Technical Regulations [excluding DFS]
	and SAR]



STANDARD	DESCRIPTION OF STANDARD
<u>UNITED STATES</u>	
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 11	Emergency alert system (EAS)
47 CFR PART 15	Radio frequency devices (excluding 15E DFS)
47 CFR PART 18	Industrial, scientific and medical equipment
47 CFR PART 20;	Commercial mobile services
FCC KDB 935210	
D03 (v04);	
FCC KDB 935210	
D04 (v02);	
FCC KDB 935210	
D05 (v01r01)	D 11: 11: 1
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 73	Radio broadcast services
47 CFR PART 74	Experimental radio, auxiliary, and special broadcast and other program
45 GED D 4 DE 00	distributional services
47 CFR PART 80	Stations in the maritime services
47 CFR PART 87	Aviation services
47 CFR PART 90	Private land mobile radio services
47 CFR PART 95	Personal radio services
47 CFR PART 96	Citizens broadband radio services
47 CFR PART 97	Amateur radio services
47 CFR PART 101	Fixed microwave services
ANSI C63.26	Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI RESNA WC	Electrically powered wheelchairs, scooters and their chargers - requirements and
VOL.2	test methods [Section 21 only]
DO 160	Environmental conditions and test procedures of airborne equipment.
A/B/C/D/E/F/G	[Sections: 15-21 & 25]
MIL-STD-461A/B/C,	Electromagnetic emission and susceptibility requirements for the control of
MIL-STD-462	electromagnetic interference:
111111111111111111111111111111111111111	[Emissions tests sections: CE01-07, RE01-03]
	[Susceptibility tests CS01-12, RS01-03, RS06]
MIL-STD-461D/E/F	Electromagnetic emission and susceptibility requirements for the control of
	electromagnetic interference:
	[Emissions tests sections: CE101, CE102, CE106, RE101-103]
	[Susceptibility tests CS101, CS103, CS104, CS105, CS109, CS114, CS115,
	CS116, RS101, RS103]
MIL-STD-461G	Electromagnetic emission and susceptibility requirements for the control of
	electromagnetic interference:
	[Emissions tests: CE101, CE102, CE106, RE101-103]
	[Susceptibility tests CS101, CS103, CS104, CS105, CS109, CS114, CS115,
	CS116, CS118, RS101, RS103]



STANDARD	DESCRIPTION OF STANDARD	
UNITED STATES (cont.)		
ANSI C63.4:2014	American national standard for methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz	
ANSI C63.10:2013	American national standard for testing unlicensed wireless devices	
ANSI C63.17:2013	American national standard for methods of measurement of the electromagnetic and operational compatibility of unlicensed personal communications services (UPCS) devices	
FCC MP-5 (1986)	Methods of measurements of radio noise emissions from industrial, scientific and Medical equipment	
ANSI/TIA 603D; TIA-102.CAAA-D	Land mobile FM or PM communications equipment measurement and performance standards	
<u>VIETNAM</u>		
TCVN 7189	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
TCVN 7317	Information technology equipment - Immunity characteristics - Limits and methods of measurement	



Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in					
Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1:					
Rule Subpart/Technology	Test Method	Maximum			
The state of the s		Frequency			
Unintentional Radiators					
Part 15B	ANSI C63.4:2014	220 GHz			
Industrial, Scientific, and Medical Equipment					
Part 18	FCC MP-5 (February 1986)	220 GHz			
Intentional Radiators		1			
Part 15C	ANSI C63.10:2013	220 GHz			
Unlicensed Personal Communication Systems Devi		1			
Part 15D	ANSI C63.17:2013	220 GHz			
U-NIII without DFS Intentional Radiators					
Part 15E	ANSI C63.10:2013	220 GHz			
UWB Intentional Radiators					
Part 15F	ANSI C63.10:2013	220 GHz			
BPL Intentional Radiators					
Part 15G	ANSI C63.10:2013	220 GHz			
White Space Device Intentional Radiators					
Part 15H	ANSI C63.10:2013	220 GHz			
Commercial Mobile Services (FCC Licensed Radio	Service Equipment)				
Parts 22 (cellular), 24, 25 (non-microwave), and 27	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
General Mobile Radio Services (FCC Licensed Rad	io Service Equipment)	l			
Parts 22 (non-cellular), 90 (non-microwave), 95,	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
97, and 101 (non-microwave)	711.000 2, 111.102.011112	220 0112			
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)					
Part 96	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
Maritime and Aviation Radio Services	,				
Parts 80 and 87	ANSI/TIA-603-D	220 GHz			
Microwave and Millimeter Bands Radio Services					
Parts 25, 74, 90 (90Y, 90Z, DSRC), and 101	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
Broadcast Radio Services					
Parts 73 and 74 (non-microwave)	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz			
Signal Boosters	, , , , , , , , , , , , , , , , , , , ,	1			
Part 20	FCC KDB 935210 D03 (v04);	220 GHz			
(Wideband Consumer Signal Boosters,	FCC KDB 935210 D03 (v01);	220 3112			
Provider-specific	FCC KDB 935210 D05 (v01r01)				
signal boosters, and Industrial Signal Boosters)	(101101)				
organia occidenti, una mausurar organi boosters)	l .	1			

<sup>&</sup>lt;sup>1</sup> This accreditation covers testing performed at all laboratory locations listed in this scope of accreditation.



#### 9604 Variel Avenue Chatsworth CA 91311

STANDARD	DESCRIPTION OF STANDARD
<u>UNITED STATES</u>	
DO 160	Environmental conditions and test procedures for airborne equipment.
	[Sections: 15-21 & 25]
MIL-STD-461/462	Electromagnetic emission and susceptibility requirements for the control of
	electromagnetic interference:
	[Emissions tests Sections: CE01-07, CE101-102 & CE106 D&E, RE01-03,
	RE101-103]
MIL-STD-461/462	Electromagnetic emission and susceptibility requirements for the control of
	electromagnetic interference:
	[Susceptibility Tests CS01-12, CS101, CS103, CS104, CS105, CS109, CS114,
	CS115, CS116 (D&E), RS01-03, RS06, RS101, RS103]

#### Notes:

- 1. Limitations for listed standards are indicated by square brackets.
- 2. Scope excludes protocol sections of applicable standards.
- 3. Scope includes references to basic standards or test methods specified within the governing standard; consequently, the basic standard references need not be identified on this scope document.
- 4. Excluding SAR, HAC and DFS where applicable.

Landen



## Accredited Laboratory

A2LA has accredited

## CKC LABORATORIES, INC.

Brea, CA

for technical competence in the field of

### **Electrical Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005

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 8 January 2009).

SEAL MENTON TO CREDITATION OF SOUTH A 2 LA

Presented this 28th day of March 2017.

President and CEO

For the Accreditation Council Certificate Number 0803.02 Valid to March 31, 2019