

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL (EMC)

Valid to: May 31, 2019

Certificate Number: 0803.06

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following <u>Emissions</u>, <u>Immunity</u>, <u>Wireless</u>, and <u>Military tests for electrical equipment</u>:

STANDARD	DESCRIPTION OF STANDARD
<u>AUSTRALIA / NEW Z</u>	EALAND
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 25	Vehicles, boats and internal combustion engines - Radio disturbance
	characteristics - Limits and methods of measurement for the protection of on-
	board receivers
AS/NZS CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission
2015	Requirements

(A2LA Cert. No. 0803.06) Revised 03/07/2019

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STANDARD	DESCRIPTION OF STANDARD
<u>CANADA</u>	
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 AM broadcasting transmitters
BETS-6	Technical standards and requirements for FM broadcasting transmitters
BETS-7	Technical standards and requirements for radio apparatus capable of receiving broadcasting
BETS-8	Technical standards and requirements for FM transmitters operating in small
BETS-9	Technical standards and requirements for television transmitters operating in
DL15-7	small remote communities
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 001	Radio frequency lighting devices
ICES 005	AC Wire Carrier Current Devices (Unintentional Radiators)
RSS-102	Evaluation procedure for mobile and portable radio transmitters with respect to
105-102	health Canada's safety code 6 for exposure of humans to radio frequency fields
DSS 111	[except SAK] Preadhand public sofety equipment operating in the hand (4040 to 4000) MHz
DSS 112	L and mahile and fixed againment operating in the hand (1670 to 1675) MHz
RSS-112 DSS 117	Land and apast station transmitters using A1 A2 A2 A2H or A2H amissions
K55-117	operating in the (200 to 535) KHz hand
RSS-119	L and mobile and fixed radio transmitters and receivers (27.41 to 960) MHz
RSS-123	Low power licensed radio communication devices
RSS-125	Low power needsed radio communication devices
100-125	primarily amplitude modulated
RSS-127	Air-Ground Equipment Operating in the Bands 849 to 851 MHz
105 127	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
1000 109	(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 (788-798) 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

STANDARD	DESCRIPTION OF STANDARD
<u>CANADA (cont.)</u>	1
RSS-181	Coast and ship station single sideband radiotelephone transmitters and receivers
	operating in the (1,605 to 28,000) KHz band
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
222.424	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
D00.105	(RRBS) (1V Channels 21 to 51)
RSS-197	Wireless broadband access equipment operating in the band
DCC 100	(3650 to 3700) MHz
RSS-199	Broadband Radio Service (BRS) equipment operating in the band
DCC 210	(2500 to 2690) MHZ
RSS-210	Low power license exempt radio communication devices (All frequency bands)
RSS-211	Level Probing Radar Equipment
RSS-213	2 GHz License exempt Personal Communications Service devices (PCS)
RSS-215	Analogue scanner receivers
RSS-216	Wireless Power Transfer Devices (Wireless Chargers)
RSS-220	Devices Using Ultra-Wideband (UWB) Technology
RSS-222	White Spaces Devices (WSDs)
RSS-236	General radio service equipment operating in the band (26.960 to 27.410) MHz
RSS-238	Shipborne Radar in the (2,900 to 3,100) MHz and (9,225 to 9,500) MHz Bands
RSS-243	Active medical implant communications system devices in the $(402 + 405)$ MH $_{1}$ = 1
DCC 244	(402 to 405) MHz band
RSS-244	Medical Devices Operating in the Band (413 to 457) MHz
RSS-24/	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs), and
DCC 251	License-Exempt Local Area Network (LE-LAN) Devices (excluding DFS)
RSS-251	Field Disturbance Sensors in the Bands (46./ to 46.9) GHZ and (/6 to //) GHZ
RSS-252	(DSDC) are been write (ODL)
DCC 207	(DSRC) – On-board unit (OBO)
KSS-28/	Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator
	Leaster Devices (MSLD)
DCC 200	Clobal Maritime Distress and Safety System (CMDSS)
RSS-200	Low nower license exempt radio communication devices (All frequency hands)
133-310	Category II equipment
PSS GEN	Category in equipment
K99-OEN	communication equipment
	communication equipment

STANDARD	DESCRIPTION OF STANDARD
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
FN 13763-26	Fundational Fundational Fundational Statement (Fundational Statement) Fundational Statement (Fundational Statement (Fundational Statement) Fundational Statement (Fundational Statement) Fundational Statement (Fundational Statement
EN ISO 14982	Agricultural and forestry machinery – Electromagnetic compatibility – Test
EI(150 11)02	methods and acceptance criteria
EN 15194	Cycles – Electrically power assisted cycles – EPAC Bicycles
EN 50065-1	Specification for signaling on low-voltage electrical installations in the
	frequency range (3 to 148.5) KHz - Part 1: General requirements, frequency
	bands and electromagnetic disturbances
EN 50065-2-1, 2, 3	Specification for signaling on low-voltage electrical installations in the
,,,-	frequency range (3 to 148.5) KHz - Part 2: Immunity requirements for mains
	communications equipment and systems operating in the range of frequencies
	(95 to 1485) KHz
EN 50083-2	Cable networks for television signals, sound signals and interactive services -
	Part 2 Electromagnetic compatibility for equipment
EN 50121-1	Railway applications - Electromagnetic compatibility - Part 1: General
EN 50121-3-2	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock -
	Apparatus
EN 50121-4	Railway applications - Electromagnetic compatibility - Part 4: Emission and
	immunity of the signaling and telecommunications apparatus
EN 50130-4	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard
	- Immunity requirements for components of fire, intruder and social alarm
	systems
ENV 50204	Radiated electromagnetic field from digital radio telephones - immunity test
	(900 MHz and 5 MHz Keyed Carrier)
EN 50270	Electromagnetic compatibility - Electrical apparatus for the detection and
	measurement of combustible gases, toxic gases or oxygen
EN 50370-1	Electromagnetic Compatibility (EMC) - Product family standard for machine
	tools - Part 1: Emissions
EN 50370-2	Electromagnetic Compatibility (EMC) - Product family standard for machine
	tools - Part 2: Immunity
EN 50498	Electromagnetic Compatibility (EMC) - Product family standard for aftermarket
ENI 55011	electronic equipment in vehicles
EN 55011	Industrial, Scientific and Medical (ISM) radio-frequency equipment - Radio
EN 55012	Cound and talavision broadcast receivers and accepted againment. Dadie
EIN 33013	disturbance characteristics. Limits and methods of measurement
EN 55014-1	Electromagnetic compatibility Dequirements for household applicance, cleatric
EIN 33014-1	tools and similar apparatus - Part 1: Emission [avoluting clicks]
FN 55014-2	Flectromagnetic compatibility - Requirements for household appliances electric
	tools and similar apparatus - Part 2: Immunity - Product family standard

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STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	<u>I (cont.)</u>
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
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
ENI 55102 1	requirements
EN 55103-1	Electromagnetic compatibility - Product family standard for audio, video, audio-
	visual and entertainment lighting control apparatus for professional use -
ENI 55102 2	
EN 55103-2	Electromagnetic compatibility - Product family standard for audio, video, audio-
	Visual and entertainment lighting control apparatus for professional use -
EN 60601-1-2	Madical electrical equipment. Dort 1.2: Concern requirements for sofety
EN 00001-1-2	Collateral standard Electromagnetic compatibility requirements for safety -
EN 60601-2-2	Madical electrical equipment — Part 2 2: Particular requirements for the safety of
EIN 00001-2-2	high frequency surgical equipment
EN 60601_2_4	Medical electrical equipment - Part 2-4: Particular requirements for the safety of
EN 00001-2-4	cardiac defibrillators [<i>FMC sections only</i>]
FN 60601-2-10	Medical electrical equipment - Part 2-10: Particular requirements for the safety
210 00001 2 10	of nerve and muscle stimulators [<i>EMC sections only</i>]
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 2-22: Particular requirements for the safety
	of diagnostic and therapeutic laser equipment [EMC sections only]
EN 60601-2-24	Medical electrical equipment - Part 2-24: Particular requirements for the safety
	of infusion pumps and controllers [EMC sections only]
EN 60601-2-26	Part 2-26: Particular requirements for the basic safety and essential performance
	of electroencephalographs
EN 60601-2-34	Medical electrical equipment - Part 2-34: Particular requirements for the safety,
	including essential performance, of invasive blood pressure monitoring
	equipment [EMC sections only]
EN 60601-2-37	Medical electrical equipment - Part 2-37: Particular requirements for the safety
	of ultrasonic medical diagnostic and monitoring equipment [EMC sections only]
EN 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the basic
	safety and essential performance of ambulatory electrocardiographic systems
	[EMC sections only]
EN 60601-2-62	Medical electrical equipment - Part 2-62 Particular requirements for the basic
	safety and essential performance of high intensity therapeutic ultrasound (HITU)
ENI (0720-1	equipment
EN 60/30-1	Automatic electrical controls for household and similar use - Part 1: General
	requirements [EMC Sections Only]

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

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STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	(cont.)
EN 61326-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 2-1: Particular requirements - Test configurations,
ENI (1547	operational conditions and performance criteria
EN 6154/	Equipment for general lighting purposes - EMC immunity requirements
EN 61850-3	Communication Networks and Systems in Substations
ENL 62040-2	[excluding 5.7.1.5 and 5.7.5]
EIN 02040-2	(EMC) requirements
EN 62061	Safety of machinery functional safety of safety related electrical electronic &
LIN 02001	programmable control systems [section 6.4.3, ref Anney F]
EN 62233	Measurement methods for electromagnetic fields of household appliances and
LIN 02235	similar apparatus with regard to human exposure
EN 62311	Assessment of electronic and electrical equipment related to human exposure
	restrictions for electromagnetic fields (0Hz to 300GHz)
EN 62479	Assessment of the compliance of low power electronic and electrical equipment
	with the basic restrictions related to human exposure to electromagnetic fields
	(10 MHz to 300 GHz)
EN 300 086	Land Mobile Service; Radio equipment with an internal or external RF
	connector intended primarily for analogue speech
EN 300 086-2	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
	mobile service - Radio equipment intended for the transmission of data (and/or
	speech) using constant or non-constant envelope modulation and having an
EN 200 210 2	antenna connector
EN 300 219-2	Electromagnetic compatibility and Radio Spectrum Matters (ERM) - Land
	mobile service - Radio equipment transmitting signals to initiate a specific
EN 200 220 2	Electromagnetic compatibility and Padio Spectrum Matters (EPM) Short
EIN 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

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STANDARD	DESCRIPTION OF STANDARD
EUROPEAN UNION	(<u>cont.)</u>
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
ENI 200 454 2	range devices - Radio equipment to be used in the (1 to 40) GHz frequency range
EN 300 454-2	audio links
EN 301 357-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Cordless
	audio devices in the range (25 to 2000) MHz - Consumer radio microphones and
	in-ear monitoring systems operating in the CEPT harmonized band (863 to 865) MHz
EN 301 489-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) -
	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
	Parts 2 thru 34, specific conditions
EN 301 502	Harmonized EN for Global System for Mobile communications (GSM) - Base
	Station and Repeater equipment
EN 301 840-2	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Digital
	wireless microphones operating in the CEPT harmonized band
	(1785 to 1800) MHz
EN 301 893	Broadband Radio Access Networks (BRAN) - 5 GHz high performance RLAN
EN 201 000 1 4 22	[except DFS testing]
EN 301 908-1 thru 22	Electromagnetic Compatibility and Radio Spectrum Matters (ERM) - Base
	Stations (BS) and Repeaters for IM1-2000 Inird-Generation cellular networks $\begin{bmatrix} 1 & 2 & 5 & 7 \\ 0 & 11 & 12 & 14 & 15 & 17 & 18 & 20 & 22 \end{bmatrix}$
EN 202 064 2	[-1, -3, -3, -7, -9, -11, -12, -14, -13, -17, -18, -20 & -22]
EIN 302 004-2	Video Links (WVI) operating in the (1.3 to 50) GHz frequency hand
EN 202 065	Fleetromagnetic compatibility and Padio spectrum Matters (EPM) Ultra
EIN 302 003	WideBand (UWB) technologies for communication purposes
EN 302 066-2	Electromagnetic compatibility and Radio spectrum Matters (ERM): Ground- and
LIV 502 000 2	Wall- Probing Radar applications (GPR/WPR) imaging systems
EN 302 195	Short Range Devices (SRD): Ultra Low Power Active Medical Implants (ULP-
	AMI) and accessories (ULP-AMI-P) operating in the frequency range (9 to 315)
	KHz
EN 302 195-2	Electromagnetic compatibility and Radio spectrum Matters (ERM) - Radio
	equipment in the frequency range (9 to 315) KHz for Ultra Low Power Active
	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
	Range Devices (SRD) - Close Range Inductive Data Communication equipment
	operating at 13.56 MHz

<u>STANDARD</u>	DESCRIPTION OF STANDARD
EUROPEAN UNION	<u>(cont.)</u>
EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2:
	Digital Multipoint Radio Equipment
EN 302 326-3	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 3:
	Multipoint Radio Antennas
EN 302 500-2	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
ENI 202 (45	transmitting systems
EN 302 645	Devices; Global Navigation Satellite Systems (GNSS) Repeaters
EU Regulation No	EU Regulation on the approval and market surveillance of agricultural and
167/2013	forestry vehicles
EU Directive	EU Directive establishing a framework for the approval of motor vehicles and
2007/46/EC	their trailers, and of systems, components and separate technical units intended
	for such vehicles
EU Regulation No	EU Regulation on the approval and market surveillance of two- or three-wheel
168/2013	vehicles and quadricycles
EU Regulation No	EU Regulation concerning type-approval requirements for the general safety of
661/2009	motor venicles, their trailers and systems, components and separate technical
	units intended therefor
UNITED NATIONS	
UN/ECE Addendum	Concerning the Adoption of Uniform Technical Prescription for Wheeled
9 Reg 10	Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled
UN/ECE Addendum	Vehicles and the Conditions for Reciprocal Recognition and Approvals Granted
9 Reg 10 Rev 5	on the Basis of these Prescriptions.
UN/ECE Addendum	
9 Reg 10 Rev 4+A1	Uniform provisions concerning the approval of vehicles with regard to
UN/ECE Addendum	electromagnetic compatibility
9 Reg 10 Rev 4	
IMDA SINCADODE	
IMDA SINGALORE	Technical specification for cordless telephone and cordless telecommunication
INDA 15 CI-CI5	systems [avaluding doct and nhs]
IMDA TS SRD	Technical specification for short range devices
IMDA TS AR	Technical specification for amateur radio equipment
IMDA TS WRA	Technical specification for wireless broadband access (WRA) equipment
IMDA TS I MR	Technical specification for land mobile radio equipment
IMDA TS CRS	Technical specification for cellular base station and repeater system
IMDA TS UWR	Technical specification for ultra-wideband (UWR) devices
IMDA TS GMPCS	Technical specification for global mobile personal communication by satellite
	(GMPCS) terminals
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STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL S	TANDARDS
CISPR 11	Industrial, scientific and medical (ISM) radio-frequency equipment -
	Electromagnetic disturbance characteristics - Limits and methods of
CIGDD 12	measurement
CISPR 13	Sound and television broadcast receivers and associated equipment - Radio
CICDD 14.1	disturbance characteristics - Limits and methods of measurement
CISPR 14-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission [excluding clicks]
CISPR 14-2	Flectromagnetic compatibility - Requirements for household appliances electric
	tools, and similar apparatus - Part 2: Immunity-Product Family Standard
CISPR 15	Limits and methods of measurement of radio disturbance characteristics of
	electrical lighting and similar equipment
CISPR 20	Sound and television broadcast receivers and associated equipment - Immunity
	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 25	Radio disturbance characteristics for the protection of receivers used on board
	vehicles, boats, and on devices - Limits and methods of measurement
	[excluding sections 5 and 6.5]
CISPR 25 (2008)	Radio disturbance characteristics for the protection of receivers used on board
(2002+COR1:2004)	vehicles, boats, and on devices - Limits and methods of measurement
	[excluding sections 5 and 6.5]
CISPR 32	Electromagnetic compatibility of multimedia equipment – Emission
	requirements
CISPR 35	Electromagnetic compatibility of multimedia equipment - Immunity
	requirements
IEC 60533	Electromagnetic compatibility of electrical and electronic installations in ships
IEC 60601-1-2	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
	Madical classical environment. Dout 2.24. Doutionlan requirements for the basis
1EC 00001-2-34	sofety and essential performance of invasive blood pressure manitoring
	equipment
IEC 60601 2 27	Medical electrical equipment Dart 2 37: Darticular requirements for the basis
1120 00001-2-37	safety and essential performance of ultrasonic medical diagnostic and monitoring
	equipment
IFC 60601-2-47	Medical electrical equipment - Part 2-47: Particular requirements for the sofety
112C 00001-2-7/	including essential performance, of ambulatory electrocardiographic systems
	including essential performance, of ambulatory electrocardiographic systems.

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STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL ST	TANDARDS (cont.)
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 ≤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 4-8: Testing and measurement
	techniques - Section 8 Power frequency magnetic field immunity test basic EMC
	publication
IEC 61000-4-11	Electromagnetic compatibility (EMC) - Part 4-11: testing and measuring
	techniques - Section 11 Voltage dips, short interruptions and voltage variations
	immunity tests
IEC 61000-4-13	Electromagnetic compatibility (EMC) - Part 4-13 Testing and measuring
	techniques - Section 13 Harmonics and interharmonics including mains signaling
	at a.c. power port, low frequency immunity tests
IEC 61000-6-1	Electromagnetic capability (EMC) - Part 6-1 Generic Standards - Immunity for
	residential, commercial, and light-industrial environments
IEC 61000-6-2	Electromagnetic Capability (EMC) - Part 6-2 Generic Standards - Immunity for
	Industrial environments
IEC 61000-6-3	Electromagnetic Capability (EMC) - Part 6-3 Generic Standards - Emissions
	standard for residential, commercial, and light-industrial environments
IEC 61000-6-4	Electromagnetic Capability (EMC) - Part 6-4 Generic Standards – Immunity for
IEC (1121.2	Presidential, commercial, and light-industrial environments
IEC 01131-2	rogrammable controllers - Part 2: Equipment requirements and tests [EMC
IEC 61226 1	Electrical equipment for measurement control and the sector ways.
IEC 01520-1	Electrical equipment for measurement, control and laboratory use - EMC
IEC 61226 2 1 thm. 6	Electrical equipment for measurement control and the entergy use. EMC
1EC 01520-2-1 thru 6	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - rarts 2-1 unru 2-0: rarticular requirements - 1 est configurations,
	operational conditions and performance criteria

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STANDARD	DESCRIPTION OF STANDARD
INTERNATIONAL ST	TANDARDS (cont.)
IEC 61326-3-1, 2	Electrical equipment for measurement, control and laboratory use - EMC
	requirements - Part 3-1 Immunity requirements for safety-related systems and for
IEC (1547	equipment intended to perform safety-related functions (functional safety)
IEC 61547	Equipment for general lighting purposes - EMC immunity requirements
IEC 61850-3	Communication Networks and Systems in Substations
HEG (20(1	[excluding sections 5./.1.3 and 5./.3]
IEC 62061	Safety of machinery – functional safety of safety related electrical, electronic &
	programmable control systems [EVIC section 6.4.3, ref Annex E]
IEC 62233	Measurement methods for electromagnetic fields of nousehold appliances and
IEC 62211	similar apparatus with regard to numan exposure.
IEC 02511	restrictions for electromagnetic fields (0 Hz to 300 GHz)
IEC 62479	Assessment of the compliance of low power electronic and electrical equipment
	with the basic restrictions related to human exposure to electromagnetic fields
	(10 MHz to 300 GHz)
IEEE 1613	Environmental and Testing Requirements for Communications Networking
	Devices Installed in Electric Power Substations
ISO	
ISO 7637-1: 1990	Road vehicles – Electrical disturbance by conduction and coupling – Part 1
	Passenger cars and light commercial vehicles with nominal 12 V supply voltage
	– Electrical transient conduction along supply lines only
ISO 7637-2	Road vehicles - Electrical disturbances from conduction and coupling -
	Part 2: 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
100 7(27 2 2004	Conduction along supply lines only
180 /63 /-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2:
150 7627 2.	Pand valuations. Electrical disturbances from conduction and counting
150 / 05 / -2:	Road venicles - Electrical disturbances from conduction and coupling -
2004+A1	Part 2: Electrical transient conduction along supply lines only (<i>Except Pulse 5</i> adjustation into 2 along T_{i} master 400ms + 80ms)
ISO 7637 3	Road valueles Electrical disturbances from conduction and coupling
ISO 7637 3: 2016	Part 3: Electrical transient transmission by canacitive and inductive coupling
ISO 7637-3: 2010	via lines other than supply lines
ISO 10605	Road vehicles - Test methods for electrical disturbances from electrostatic
ISO 10605 · 2008	discharge
ISO 10605: 2001	
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)

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STANDARD	DESCRIPTION OF STANDARD	
ISO (cont.)		
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	
ISO 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	
ISO 13766	Earth-moving machinery - Electromagnetic compatibility	
ISO 14982	Agricultural and forestry machinery - Electromagnetic compatibility -	
	Test methods and acceptance criteria	
T (D (D)		
<u>JAPAN</u>		
VCCI V-3	Technical Requirements [Note: 5 meter or less test distance]	
(up to 6 GHz)		
VCCI-CISPR	Electromagnetic compatibility of multimedia equipment – Emission	
32:2016	Requirements	
C A D		
SAE		
SAE J551-1	Performance levels and methods of measurement of electromagnetic	
GAT 1551 0	compatibility of vehicles, boats (up to 15 m), and machines (16.6 Hz to 18 GHz)	
SAE J551-2	lest limits and methods of measurement of radio disturbance characteristics of	
	venicles, motorboats, and spark-ignited engine-driven devices	
SAE J551-4	lest limits and methods of measurement of radio disturbance characteristics of	
CAE 1551 5	Performance levels and methods of meanward of meanetic and electric field	
SAE J331-3	strength from electric melicles, have drawed (0 KHz to 20 MHz)	
SAE 1551-11	Vahiala alastromagnatia immunity aff vahiala sauras	
SAE J551-11	Vehicle electromagnetic immunity - on-venicle source	
SAE J551-12	(D) Vahiala alastromagnetic immunity - on-board transmitter simulation	
SAE J551-15	(K) venicle electromagnetic infinumity - bulk current injection	
SAE J551-15	compatibility of vehicles boats (up to 15 m) and machines (50 Hz to 15 CHz)	
	Dert 15 vehicle electromagnetic immunity – electrostatic discharge (ESD)	
SAE 1551 17	(B) Vehicle electromagnetic immunity – electrostatic discharge (ESD)	
SAE JJJ1-17	(K) venicle electromagnetic infinumity - power fine magnetic fields	
SAE J1115-2	components (areant giraraft), conducted immunity (15 Hz to 250 KHz), all	
	leads	
SAF 11113_4	Immunity to radiated electromagnetic fields – Bulk current injection (BCI)	
SAF I1113_A· 2014	minumery to radiated electromagnetic fields – Durk current injection (DCI) method	
SAE J1113-4: 2014 SAE J1113-4: 2004	inctriod	
SAF I1113-11	Immunity to conducted transients on power leads	
SAE J1113-11 · 2012	minumery to conducted transients on power leads	
SAE J1113-11: 2012		
SAE J1113-12	Electrical interference by conduction and coupling - canacitive and inductive	
~	coupling via lines other than supply lines	

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STANDARD	DESCRIPTION OF STANDARD
SAE (cont.)	
SAE J1113-13	Electromagnetic compatibility measurement procedure for vehicle components -
SAE J1113-13: 2015	part 13 immunity to electrostatic discharge
SAE J1113-13: 2011	
SAE J1113-13: 2004	
SAE J1113-21	Electrical interference by conduction and coupling - coupling clamp and
	chattering relay
SAE J1113-22	Electromagnetic compatibility measurement procedure for vehicle components -
	Part 22 - immunity to radiated magnetic fields
SAE J1113-26	Electromagnetic compatibility measurement procedure for vehicle components -
SAE J1113-26: 2013	Part 26 - immunity to ACA power lines electric fields
SAE J1113-26: 2014	
SAE J1113-26: 2006	
SAE J1113-41	Limits and methods of measurement of radio disturbance characteristics of
	components and modules for the protection of receivers used on board vehicles
SAE J1455	Joint SAE/TMC recommended environmental practices for electronic equipment
	design (heavy-duty trucks)
	[Sections: 4.13.1, 4.13.2 and 4.13.3]
SAE J1752-2	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) [up to 1.2GHz]
TAIWAN	
LP0002	Low-power Radio-frequency Devices Technical Regulations [excluding DFS
	and SAR]
UNITED STATES	
47 CFR PART 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
47 CFR PART 11	Emergency alert system (EAS)
ANSI C63.26	Standard for Compliance Testing of Transmitters Used in Licensed Radio
	Services
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)	
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

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UNITED STATES (cont.)47 CFR PART 74Experimental radio, auxiliary, and special broadcast and other program distributional services47 CFR PART 80Stations in the maritime services47 CFR PART 87Aviation services47 CFR PART 90Private land mobile radio services47 CFR PART 95Personal radio services47 CFR PART 96Citizens broadband radio services47 CFR PART 97Amateur radio services47 CFR PART 97Amateur radio services47 CFR PART 101Fixed microwave services47 CFR PART 101Fixed microwave services47 CFR PART 101Steetincally powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]DO 160Environmental conditions and test procedures of airborne equipment. [Sections: 15-22 & 25]
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47 CFR PART 80Stations in the maritime services47 CFR PART 87Aviation services47 CFR PART 90Private land mobile radio services47 CFR PART 95Personal radio services47 CFR PART 96Citizens broadband radio services47 CFR PART 97Amateur radio services47 CFR PART 97Amateur radio services47 CFR PART 101Fixed microwave services47 CFR PART 101Fixed microwave servicesANSI RESNA WCElectrically powered wheelchairs, scooters and their chargers - requirements and test methods [Section 21 only]DO 160Environmental conditions and test procedures of airborne equipment. [Sections: 15-22 & 25]
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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 Electrically powered wheelchairs, scooters and their chargers - requirements and test methods VOL.2 [Section 21 only] DO 160 Environmental conditions and test procedures of airborne equipment. A/B/C/D/E/F/G [Sections: 15-22 & 25]
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 Electrically powered wheelchairs, scooters and their chargers - requirements and test methods VOL.2 [Section 21 only] DO 160 Environmental conditions and test procedures of airborne equipment. A/B/C/D/E/F/G [Sections: 15-22 & 25]
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ANSI RESNA WC Electrically powered wheelchairs, scooters and their chargers - requirements and test methods VOL.2 [Section 21 only] DO 160 Environmental conditions and test procedures of airborne equipment. A/B/C/D/E/F/G [Sections: 15-22 & 25]
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: 15-22 & 25]
[Section 21 only]DO 160Environmental conditions and test procedures of airborne equipment.A/B/C/D/E/F/G[Sections: 15-22 & 25]
DO 160Environmental conditions and test procedures of airborne equipment.A/B/C/D/E/F/G[Sections: 15-22 & 25]
$A/B/C/D/E/F/G \qquad [Sections: 15-22 & 25]$
MIL-STD-461A/B/C, Electromagnetic emission and susceptibility requirements for the control of
MIL-SID-462 electromagnetic interference:
[Emissions tests: CE01-07, RE01-03]
Susceptibility tests CS01-12, RS01-03, RS06
MIL-SID-461D/E/F Electromagnetic emission and susceptibility requirements for the control of
electromagnetic interference:
$\begin{bmatrix} \text{Emissions tests: CE101, CE102, } & \text{CE106, RE101-103} \end{bmatrix}$
[Susceptibility tests CS101, CS103, CS104, CS105, CS106, CS109, CS114, CS115, CS116, DS101, DS102]
CS115, CS116, KS101, KS103]
MIL-SID-461G Electromagnetic emission and susceptibility requirements for the control of
Emissions tests: CE101_CE102_CE106_DE101_1021
[Emissions tests: CE101, CE102, CE100, RE101-105] $[Susceptibility tests CS101, CS102, CS104, CS105, CS100, CS114, CS115]$
CS116 $CS117$ $CS118$ $RS101$ $RS103$
ANSI C63 4:2003 American National Standard for Methods of Measurement of Radio-Noise
Emissions from Low-Voltage Electrical and Electronic Equipment in the Range
of (9 KHz to 40 GHz)
ANSI C63 4:2009 American National Standard for Methods of Measurement of Radio-Noise
Emissions from Low-Voltage Electrical and Electronic Equipment in the Range
of (9 KHz to 40 GHz)
ANSI C63 4:2014 American National Standard for Methods of Measurement of Radio-Noise
Emissions from Low-Voltage Electrical and Electronic Equipment in the Range
of (9 KHz to 40 GHz)
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: Land Mobile FM or PM Communications Equipment Measurement and
TIA-102.CAAA-D Performance Standards.

STANDARD	DESCRIPTION OF STANDARD
<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 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			
Part 15C	ANSI C63.10:2013	220 GHz	
Unlicensed Personal Communication Systems D	Devices		
Part 15D	ANSI C63.17:2013	220GHz	
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 Ra	dio Service Equipment)		
Parts 22 (cellular), 24, 25 (non-microwave),	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz	
and 27			
General Mobile Radio Services (FCC Licensed	Radio Service Equipment)		
Parts 22 (non-cellular), 90 (non-microwave),	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz	
95, 97, and 101 (non-microwave)			
Citizens Broadband Radio Services (FCC Licens	sed Radio Service Equipment)	1	
Part 96	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz	
Maritime and Aviation Radio Services	1	1	
Parts 80 and 87	ANSI/TIA-603-D	220 GHz	
Microwave and Millimeter Bands Radio Service	s	1	
Parts 25, 74, 90 (90Y, 90Z, DSRC), and 101	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz	
Broadcast Radio Services	1	1	
Parts 73 and 74 (non-microwave)	ANSI/TIA-603-D; TIA-102.CAAA-D	220 GHz	
Signal Boosters			
Part 20	FCC KDB 935210 D03 (v04);	220 GHz	
(Wideband Consumer Signal Boosters,	FCC KDB 935210 D04 (v02);		
Provider-specific	FCC KDB 935210 D05 (v01r01)		
signal boosters, and Industrial Signal			
Boosters)			

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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.

Inter





Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC.

Fremont, 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).



Presented this 28th day of March 2017.

President and CEO For the Accreditation Council Certificate Number 0803.06 Valid to May 31, 2019 Revised March 7, 2019

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