



TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 70

Legal Name of Accredited Laboratory: **NEMKO CANADA INC.**

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SCC File Number:	15064
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Electrical/Electronic Optics & Optical Radiation
Initial Accreditation:	1991-08-13
Most Recent Accreditation:	2021-02-15
Accreditation Valid to:	2023-08-13

SCC Group Accreditation:

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

- 151097 NEMKO CANADA INC., 130 Saltsman Drive Unit1, Cambridge, ON, N3E 0B2
Accredited Laboratory No. 879
- 151100 NEMKO CANADA INC., 292 Labrosse Avenue, Pointe-Claire, QC, H9R 5L8,
Accredited Laboratory No. 880

The following is a Scope of Accreditation for which this testing laboratory has been accredited to ISO/IEC 17025:2017. Note that the parent organization is also accredited as a certification body. The parent organization's Scope of Accreditation for certification activities may be broader



than the listing of standards and test methods that appear below. Refer to the parent organization's Scope of Accreditation granted by the SCC for certification activities found at: <http://www.scc.ca/en/accreditation/product-process-and-service-certification/directory-of-accredited-clients>

Where standards, such as product standards, are listed below, the laboratory is considered accredited only for the testing elements in those standards.

ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

(Energy Efficiency)

20 CCR 1604 (v)	Televisions and consumer equipment and Video Equipment
20 CCR 1604 (w)	Battery Charger Systems
CAN/CSA-C380-08	Test procedure for the measurement of energy consumption of set-top boxes (STBs)
CAN/CSA-C381.1-08	Test method for calculating the energy efficiency of single-voltage external ac-dc and ac-ac power supplies
CAN/CSA-C381.2-17	Test method for calculating the energy performance of battery-charging systems and uninterruptible power supplies
CAN/CSA-C62301-07 IEC 62301	Household electrical appliances - Measurement of standby power
ENERGY STAR® Program Requirements for Set-top Boxes	ENERGY STAR Test Method for Set-top Boxes (Testing Products for ENERGY STAR) ENERGY STAR Program for Set-top Boxes.
ENERGY STAR® Program Requirements for Televisions	ENERGY STAR Test Method for Televisions, ENERGY STAR Program Requirements for Televisions, Rev. Aug-2010 -IEC 62087, Ed 2.0: Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment -CEA-2037: Determination of Television Average Power Consumption (December 2009) -IEC 62301, Ed 1.0: Household Electrical Appliances – Measurement of Standby Power. -CEA: Procedure for DAM Testing NOPR Federal register Vol 77, No.12 Jan 19, 2012 (10 CFR Part 430)
ENERGY STAR® Program Requirements Product Specification for Audio/Video	ENERGY STAR Test Method for Audio/Video, ENERGY STAR Program Requirements Product Specification for Audio/Video



ENERGY STAR® Program Requirements Product Specification for Battery Charging Systems	ENERGY STAR Test Method, ENERGY STAR Program Requirements for Battery Charging Systems, Rev. Aug-2010 - IEC Standard 61951-1: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium. Ed. 2.1. January 2006 - IEC Standard 61951-2: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 2: Nickel-metal hydride. Ed. 2.0. April 2003 - IEC Standard 61960: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications. Ed. 1.0. December 2003
ENERGY STAR® Program Requirements Product Specification for Computer Servers	ENERGY STAR Test Method for Computer Servers, ENERGY STAR Test Procedure for Determining the Power Use of Computer Servers at Idle and Full Load (Appendix A of specification) EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. Available at www.efficientpowersupplies.org . IEC 62301: Household Electrical Appliances - Measurement of Standby Power
ENERGY STAR® Program Requirements Product Specification for Computers	ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, with methods EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. (for products that have internal, multi-output, or single output with integral cooling power supplies; available at: www.efficientpowersupplies.org) IEC 62301: Household Electrical Appliances - Measurement of Standby Power
ENERGY STAR® Program Requirements Product Specification for Displays	ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements Product Specification for Displays, page 11 -IEC 62087: Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment -IEC 62301: Household Electrical Appliances-Measurement of Standby Power



ENERGY STAR® Program Requirements Product Specification for Imaging Equipment	ENERGY STAR Imaging Equipment Test Method, ENERGY STAR Program Requirements, Product Specification for Imaging Equipment, page 20 - IEC 62301 Ed 1.0: Household Electrical Appliances - Measurement of Standby Power - EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies. Available at www.efficientpowersupplies.org Test Method for Calculating the Energy Efficiency of Single Voltage External AC-DC and AC-AC Power Supplies
ENERGY STAR® Program Requirements Product Specification for Telephony	ENERGY STAR Test Method for Telephony, ENERGY STAR Program Requirements for Telephony.
ENERGY STAR® Test Method for Calculating the Energy Efficiency of Single Voltage External AC-DC and AC-AC Power Supplies	
ENERGY STAR® Test methodology for Determining the Energy Performance of Battery Charging Systems	
ENERGY STAR® Program Requirements for Computer Servers	
ENERGY STAR® Program Requirements for Large Network Equipment	
ENERGY STAR® Program Requirements for Small Network Equipment	
ENERGY STAR® Program Requirements for Uninterruptible Power Supplies (UPSs)	
EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies	
IEC 62087:2008 IEC 62087:2011	Methods of Measurement for the Power Consumption of Audio, Video, and Related Equipment



Communications Equipment and Systems:

(Electromagnetic Compatibility and Interference (EMC and EMI))

3GPP TS 36.113 (ETSI TS 136.113)*	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) and repeater ElectroMagnetic Compatibility (EMC)
3GPP TS 37.113 (ETSI TS 137.113)*	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) Electromagnetic Compatibility (EMC)
CISPR 11* ^Δ EN55011* ^Δ KN 11* ^Δ AS/NZS CISPR 11* ^Δ	Industrial, scientific and medical (ISM) radio-frequency equipment Radio disturbance characteristics Limits and methods of measurement
CISPR 13* ^Δ EN55013* ^Δ KN 13* ^Δ AS/NZS CISPR 13* ^Δ	Sound and television broadcast receivers and associated equipment - Radio Disturbance characteristics - Limits and methods of measurement
CISPR 14-1* EN55014-1* KN 14-1* AS/NZS CISPR 14-1*	Electromagnetic compatibility requirements for household appliances, electric tools and similar apparatus Part 1: Emission
CISPR 14-2* EN55014-2* KN 14-2* AS/NZS CISPR 14-2*	Electromagnetic compatibility requirements for household appliances, electric tools and similar apparatus Part 2: Immunity-Product family standard
CISPR 15* EN 55015* KN 15* AS/NZS CISPR 15*	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
CISPR 16-2-1*	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements
CISPR 16-2-2*	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power



CISPR 16-2-3*	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements
CISPR 16-2-4*	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-4: Methods of measurement of disturbances and immunity - Immunity measurements
CISPR 16-2-5*	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-5: In situ measurements for disturbing emissions produced by physically large equipment
CISPR 20* EN 55020* KN 20* AS/NZS CISPR 20*	Sound and television broadcast receivers and associated equipment-Immunity characteristics - Limits and methods of measurement
CISPR 22* ^Δ EN 55022* ^Δ KN 22* ^Δ AS/NZS CISPR 22* ^Δ TCVN 7189:2009 (CISPR 22: 2006) * ^Δ	Limits and methods of measurement of radio disturbance characteristics of information technology equipment
CISPR 24* EN 55024* KN 24* AS/NZS CISPR 24* TCVN 7317: 2003 (CISPR 24:1997)*	Information technology equipment Immunity characteristics Limits and methods of measurement
CISPR 32* ^Δ EN 55032* ^Δ KN 32* ^Δ AS/NZS CISPR 32* ^Δ	Electromagnetic compatibility of multimedia equipment: Emission requirements
QCVN 118 :2018 (CISPR 32 :2015)	National technical regulation on the Electromagnetic compatibility of MultiMedia Equipment (MME) – Emission requirements
CISPR 35* EN 55035* KN 35*	Electromagnetic Compatibility of Multimedia Equipment - Immunity Requirements
CNS 13438* ^Δ	Taiwan EMC for information technology equipment
EN 15194*	Cycles - Electrically power assisted cycles - EPAC Bicycles



EN 300 386* ^Δ	Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; Electromagnetic Compatibility (EMC) requirements
EN 300 386-2*	Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunication network equipment; Electromagnetic compatibility (EMC) requirements; Part 2: Product family standard
EN 301 489-1 to EN 301 489-34* ^Δ	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic compatibility (EMC) standard for radio equipment and services
KN 301 489-1* ^Δ	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonized Standard for Electro Magnetic Compatibility
KN 301 489-2* ^Δ	Specific conditions for radio paging equipment
KN 301 489-3* ^Δ	Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz
KN 301 489-5* ^Δ	Specific conditions for Private land Mobile Radio (PMR) and ancillary equipment (speech and non-speech) and Terrestrial Trunked Radio (TETRA)
KN 301 489-6* ^Δ	Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment
KN 301 489-7* ^Δ	Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)
KN 301 489-9* ^Δ	Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices
KN 301 489-13* ^Δ	Specific conditions for Citizens Band (CB) radio and ancillary equipment (speech and non-speech)
KN 301 489-15* ^Δ	Specific conditions for commercially available amateur radio equipment
KN 301 489-17* ^Δ	Specific conditions for Broadband Data Transmission Systems
KN 301 489-18* ^Δ	Specific conditions for Terrestrial Trunked Radio (TETRA) equipment
KN 301 489-20* ^Δ	Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)



KN 301 489-24* ^Δ	Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment
KN 301 489-26* ^Δ	Specific conditions for CDMA 1x spread spectrum Base Stations, repeaters and ancillary equipment
KN 301 489-27* ^Δ	Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands
KN 301 489-32* ^Δ	Specific conditions for Ground and Wall Probing Radar applications
EN 50121-3-2* ^Δ	Railway applications. Electromagnetic compatibility. Rolling stock. Apparatus
EN 50130-4*	Alarm Systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components for fire, intruder and social alarm systems
EN 50136-1*	Alarm systems - Alarm transmission systems and equipment -Part 1: General requirements for alarm transmission systems
EN 50136-2*	Alarm systems - Alarm transmission systems and equipment - Part 2: Requirements for Supervised Premises Transceiver (SPT) Only for: Clause 9.3: Reduced functional test
EN 50136-2-3*	Alarm systems - Alarm transmission systems and equipment Part 2-3: Requirements for equipment used in systems with digital communicators using the public switched telephone network Only for: Electrostatic discharge test in clause 6.3 Environmental testing
EN 50155* ^Δ	Railway applications. Electronic equipment used on rolling stock
EN 50561-1*	Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - limits and methods of measurements - Part 1: Apparatus for In-Home Use
EN 60601-1-2* ^Δ IEC 60601-1-2* ^Δ KN 60601-1-2* ^Δ	Limits and methods of measurement - Part 1: Apparatus for in-home use Medical electrical equipment - Part 1-2: General requirements for safety - Collateral standard: Electromagnetic compatibility - Requirements



EN 60730-1* IEC 60730-1*	Automatic electrical controls Part 1: General requirements Sections 23 and H.23 - Electromagnetic compatibility (EMC) requirements - emissions Section 26 and H.26 - Electromagnetic compatibility requirements - immunity
EN 60839-11-1* IEC 60839-11-1*	Alarm and electronic security systems - Part 11-1: Electronic access control systems - System and components requirements Only for EMC in Clause 7 and Clause 8.2 (Reduced functional test)
EN 60945* IEC 60945* KN 60945*	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results Only for EMC (Clauses 9 and 10)
EN 61000-3-2* IEC 61000-3-2* AS/NZS 61000.3.2*	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16A per phase)
EN 61000-3-3* IEC 61000-3-3* AS/NZS 61000.3.3*	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current 'less than or equal to' 16A per phase and not subject to conditional connection
EN 61000-4-11* IEC 61000-4-11* KN 61000-4-11*	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test
EN 61000-4-2* IEC 61000-4-2* KN 61000-4-2*	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3* IEC 61000-4-3* KN 61000-4-3*	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity
EN 61000-4-4* IEC 61000-4-4* KN 61000-4-4*	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test
EN 61000-4-5* IEC 61000-4-5* KN 61000-4-5*	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test
EN 61000-4-6* IEC 61000-4-6* KN 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* IEC 61000-4-8* KN 61000-4-8*	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test
EN 61000-6-1* IEC 61000-6-1* KN 61000-6-1*	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-2* IEC 61000-6-2* KN 61000-6-2*	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
EN 61000-6-3* ^Δ IEC 61000-6-3* ^Δ KN 61000-6-3* ^{Δ+}	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments
EN 61000-6-4* ^Δ IEC 61000-6-4* ^Δ KN 61000-6-4* ^{Δ+}	Electromagnetic compatibility (EMC)-Part 6-4: Generic standards -Emission standard for industrial environments
EN 61326-1* ^Δ IEC 61326-1* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
EN 61326-2-1* ^Δ IEC 61326-2-1* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications
EN 61326-2-2* ^Δ IEC 61326-2-2* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems
EN 61326-2-3* ^Δ IEC 61326-2-3* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning
EN 61326-2-4* ^Δ IEC 61326-2-4* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-4: Particular requirements - Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9



EN 61326-2-5* ^Δ IEC 61326-2-5* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with interfaces according to IEC 61784-1, CP 3/2
EN 61326-2-6* ^Δ IEC 61326-2-6* ^Δ	Electrical equipment for measurement, control and laboratory use-EMC requirements Part 2-6: Particular requirements- In vitro diagnostic (IVD) medical equipment
EN 61326-3-1* IEC 61326-3-1*	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications
EN 61326-3-2* ^Δ IEC 61326-3-2* ^Δ	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment
EN ISO 10535*	Hoists for the transfer of disabled persons - Requirements and test methods Only for: EMC Clause 4.3.2.23
EN50131-1*	Alarm systems - Intrusion and hold-up systems - Part 1: System requirements Only for: Clause 12.1 EMC requirements
EN50131-2-2*	Alarm systems - Intrusion and hold-up systems Part 2-2: Intrusion detectors - Passive infrared detectors Only for: EMC according to EN 50130-4 in clause 4.7.2 Immunity to environmental conditions
EN50131-2-4*	Alarm systems - Intrusion and hold-up systems Part 2-4: Requirements for combined passive infrared and microwave detectors Only for: EMC according to EN 50130-4 in clause 4.7.2 Immunity to environmental conditions
EN50131-2-6*	Alarm systems Intrusion and hold-up systems Part 2-6: Opening contacts (magnetic) Only for: EMC according to EN 50130-4 and EN 61000-6-3 in clause 4.7.2 Immunity to environmental conditions
EN50131-3*	Alarm systems Intrusion and hold-up systems Part 3: Control and indicating equipment Only for: EMC tests per EN 50130-4 in clause 11.14 Environmental and EMC tests



EN50131-4*	Alarm systems Intrusion and hold-up systems Part 4: Warning devices Only for: EMC tests per EN 50130-4 in clause 11.14 Environmental and EMC tests
EN50131-6*	Alarm systems - Intrusion and hold-up systems Part 6: Power supplies Only for: Clause 4.14 EMC
EN50136-2-1*	Alarm systems Alarm transmission systems and equipment Part 2-1: General requirements for alarm transmission equipment Only for: Clause 7 Electromagnetic Compatibility testing and requirements
ENV 50204*	Radiated electromagnetic field from digital radio telephones - Immunity test
ETS 300 086*	LMR-Land Mobile Radio
ETS 300 339*	General EMC for Radio Devices
ETS 300 385*	EMC for Radio Relay Systems at 2 Mbps
ETS 300 683*	EMC 9 kHz - 25 GHz
FCC 12/CIS22: (IEC/CISPR 22:1993)*	Limits and methods of measurement of radio disturbance characteristics of information technology equipment
FCC 47 CFR 15**	Radio Frequency Devices
FCC Part 15 12/F01*	Digital Devices
FCC Part 15 12/F01a*	Conducted Emissions, Power Lines, 450 kHz to 30 MHz
FCC Part 15 12/F01b*	Radiated Emissions
FCC Part 15 12/T01*	Terminal Equipment Network Protection Standards,
FCC/OET MP-5 (February 1986)	FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific and Medical Equipment
ICES 001* ^Δ	Interference Causing Equipment Standards, Industrial, etc.
ICES-003* ^Δ	Spectrum Management, Interference-Causing Equipment Standard Digital Apparatus
ICES-005*	Lighting Equipment
IDA TS EMC*	EMC requirements for Telecommunication Equipment
IEC 60571*	Railway applications - Electronic equipment used on rolling stock Only for EMC (Clauses 12.2.7, 12.2.8, 12.2.9)



IEC 60730-1*	Automatic electrical controls Part 1: General requirements
IEC 60947-1*	Low-voltage switchgear and control gear - Part 1: General rules Only for EMC (Clauses 7.3 and 8.4)
IEC 62236-3-2*	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock Apparatus
MIC Notice*	Republic of Korea - Technical Regulation Criteria for EMC
QCVN 18:2010/BTTTT*	National technical regulation on General Electromagnetic Compatibility for Radio Communications Equipment
RRA Notice*	Republic of Korea - Technical Regulation Test Method for EMC
RRA Notice*	Republic of Korea - Technical Requirements for Electromagnetic Compatibility
RRA Notice*	Republic of Korea - Test Methods for Electromagnetic Compatibility
TBR 26*	Satellite Earth Stations and Systems (SES); Low data rate Land Mobile satellite Earth Stations (LMES) operating in the 1,5/1,6 GHz frequency bands
VCCI* ^Δ	Agreement of Voluntary Control Council for Interference by information technology equipment
ANSI C63.4-2014 ^Δ	American National Standard for methods of measurement of radio-noise emissions for low voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz

(Telecommunications Terminal Equipment)

ADSL01	Asymmetric Digital Subscriber Line Terminal Equipment and POTS Splitter Technical Specifications
AS/ACIF S003	Customer Switching, multiplexing and ancillary equipment for connection to the telecommunications network
AS/ACIF S006	Requirements for customer equipment, operating in the voice band, for connection to the Non-switched telephone network.
AS/ACIF S016	Requirements for customer equipment for connection to hierarchical digital interfaces
AS/ACIF S031	Requirements for ISDN Basic Access Interface
AS/ACIF S038	Requirements for ISDN Primary Rate Access Interface



AS/ACIF S040	Requirements for Customer Equipment for use with the Standard Telephone Service-Features for special needs
AS/CA S002	Analogue Interworking and non-interference requirements for Customer Equipment for connection to the Public Switch Telephone Network
AS/CA S003.1	Requirements for Customer Access Equipment for connection to a Telecommunications Network, Part 1:General
AS/CA S003.2	Requirements for Customer Access Equipment for connection to a Telecommunications Network, Part 2: Analogue and TDM based Technologies
AS/CA S003.3	Requirements for Customer Access Equipment for connection to a Telecommunications Network, Part 3 : Packet and Cell based Technologies
AS/CA S004	Voice frequency performance requirements for customer equipment
AS/CA S043.1/.2/.3	Requirements for Customer Equipment for Connection to a Metallic Loop Interface of a Telecommunications Network - Part 1: General, Part 2: Broadband and Part 3: DC, Low Frequency AC and Voiceband.
ETSI ES 203 021-1	Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 1: General aspects
ETSI ES 203 021-2	Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 2: Basic transmission and protection of the network from harm
ETSI ES 203 021-3	Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 3: Basic Interworking with the Public Telephone Networks
FCC Part 68	FCC Rules for registration of Telephone Equipment (Analogue devices)



HKCA (HKTA) 2011	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to Direct Exchange Lines (DEL) of the Public Switched Telephone Network (PSTN) of Hong Kong.
HKCA(HKTA) 2015	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunication Network (PTN) in Hong Kong using ISDN Primary Rate Access (PRA) at 1544 kbits/s
HKCA (HKTA) 2017	Network Connection Specification for Connection of Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong over Digital Trunk at 1544 kbit/s using DTMF Signalling
HKCA (HKTA) 2028	Network Connection Specification for Connection to Customer Premises Equipment (CPE) to the Public Telecommunications Network (PTN) in Hong Kong using Digital Leased Circuits at Data Rate of 1544 kbits/s
HKCA (HKTA) 2029	Network Connection Specification for Connection of Customer Premises equipment (CPE) to the Public Telephone Network (PTN) in Hong Kong using Digital Leased Circuits at Data Rate of 2048 kbits/s
IC CS 03 Part VI	Requirements and test methods for ISDN terminal Equipment
IC CS-03 Part I	Harmonised requirements for Terminal Equipment, Terminal Systems, and Certified protection circuitry
IC CS-03 Part II	Requirements for TE Interfaces for connection to 1.544 Mbps (DS-1) Digital facilities
IC CS-03 Part V	Requirements and Test methods for Magnetic Output from Handset Telephones for Hearing Aid Coupling
IC CS-03 Part VII	Requirements for Limited Distance Modems and Digital Substrate Terminal Equipment
IC CS-03 Part VIII	Requirements and Test methods for Digital Subscriber Line (xDSL) Terminal Equipment
ID0002	DS1 Type Approval Requirements (Taiwan)
IDA TS ISDN-PRA	Terminal Equipment for connection to the Integrated Services Digital Network (ISDN) using Primary Rate Access
IMDA TS DLCN (formerly IDA TS DLCN)	Technical Specification for Terminal Equipment connected to 2 Mbit/s, 34 Mbit/s and 140 Mbit/s Digital Leased Lines



IMDA TS ISDN	Terminal Equipment for connection to the Integrated Services Digital Network
IMDA TS PSTN	Technical Specification for Terminal Equipment connected to Network Terminating Equipment or the Public Switched Telephone Network for access to voice band services
IS6100	Technical Specifications for Terminal Equipment for Connection to Public Switched Telephone Network (Taiwan)
MIC Notice	Republic of Korea - Technical Requirement for Telecommunications Terminal Equipment
PSTN01	Technical Specifications for Terminal Equipment for Connection to Public Switched Telephone Network. (Taiwan)
PTC 200	PTC 200 Requirements for Connection of Customer Equipment to Analogue Lines
PTC 220	PTC 220: Requirements for Private Voice Networks connected to PSTN/ISDN
QCVN 19:2010/BTTTT	National technical regulation on general requirements of Telecommunications Terminal Equipment to be connected to an analogue subscriber interface in the PSTN
KS X 3074	Conformity Assessment Test Methods for Common Requirements of Broadcasting and Telecommunication Terminal Equipment
KS X 3075	Conformity Assessment Test Methods for Terminal Equipment connected to Telephone Facilities
KS X 3076	Conformity Assessment Test Methods for Terminal Equipment connected to Digital Subscriber Line
KS X 3078	Conformity assessment test methods for terminal equipment connected to digital broadcasting and telecommunication and integrated services digital network facilities
KS X 3247	Test method for GDSL Equipment
KS X 3123	Conformity assessment test methods for radio equipment
KS X 3142	Test Methods for Characteristic of LTE Mobile Radio Equipment
RRA Public Notification 2018-8	Unlicensed radio equipment established without notice



TBR 12: 1993 (WITH A1: 1996)	Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal equipment interface
TBR 13: 1996 (CTR 13)	Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface
TBR 15: 1997 (CTR 15)	Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 2-wire analogue leased lines (A20 and A2S); Attachment requirements for terminal equipment interface
TBR 17: 1997 (CTR 17)	Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 4-wire analogue leased lines (A40 and A4S); Attachment requirements for terminal equipment interface
TBR 2: 1997 (CTR 2)	Attachment requirements for data terminal equipment (DTE) to connect to packet switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signaling rates up to 1 920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21 bis
TBR 21: 1998 (CTR 21)	Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switch Telephone Networks (PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signaling
TBR 24: 1997 (CTR 24)	Business Telecommunications (BTC); 34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface
TBR 3: 1995 (WITH A1: 1997)	Integrated Services Digital Network (ISDN) attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access
TBR 4: 1995 (WITH A1: 1997)	Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access



TBR1: 1995 (CTR 1)	Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible, with CCITT Recommendation X.21 but operating at any data signaling rate up to, and including 1 984 kbit/s
TE-001	Standard for Telecommunication Line Terminal Equipment (TLTE) for connection to the Public Switched Telephone Network (PSTN)
TIA-968-A including Amendments	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
TIA-968B	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
TNA 117	TNA 117:1992 Telecom 2048 kbit/s Standard Network Interface

Radio Telecommunication

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
ANSI C63.26: 2015	American National Standard of procedures for compliance testing of transmitters used in licensed radio services
ANSI/TIA-603-D	Land Mobile FM or PM Communications Equipment. Measurement and performance standards
AS/NZS 4268	Radio equipment and systems - Short range devices - Limits and methods of measurement
AS/NZS 4771	Technical characteristics and test conditions for data transmission equipment operating in the 900 MHz, 2.4 GHz and 5.8 GHz bands and using spread spectrum modulation techniques
CBRSA-TS-9001	CBRS Alliance Certification Test Plan
EN 50131-5-3	Alarm systems - Intrusion systems - Part 5-3: Requirements for interconnections equipment using radio frequency techniques
ETS 300 279	LMR- Land Mobile Radio, EMC



ETS 300 487	Satellite earth stations and systems (SES); Receive-only mobile earth stations (ROMES) operating in the 1,5 GHz band providing data communications; Radio frequency (RF) specifications
ETSI EN 300 086	LMR-Land Mobile Radio Service
ETSI EN 300 113	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 300 113-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land mobile service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector; Part 1: Technical characteristics and methods of measurement
ETSI EN 300 219	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver; Part 2: Harmonized EN covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 300 219-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment transmitting signals to initiate a specific response in the receiver; Part 1: Technical characteristics and methods of measurement
ETSI EN 300 220-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio Equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods
ETSI EN 300 220-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive



ETSI EN 300 224-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); On-site paging service; Part 1: Technical and functional characteristics, including test methods
ETSI EN 300 224-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); On-site paging service; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
ETSI EN 300 296	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 2: Harmonized EN covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 300 296-1	Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Land Mobile Service; Radio equipment using integral antennas intended primarily for analogue speech; Part 1: Technical characteristics and methods of measurement
ETSI EN 300 328	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 300 330-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 1: Technical characteristics and test methods
ETSI EN 300 330-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
ETSI EN 300 373-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Maritime mobile transmitters and receivers for use in the MF and HF bands; Part 1: Technical characteristics and methods of measurement



ETSI EN 300 373-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); Maritime mobile transmitters and receivers for use in the MF and HF bands; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETSI EN 300 373-3	Electromagnetic compatibility and Radio spectrum Matters (ERM); Maritime mobile transmitters and receivers for use in the MF and HF bands; Part 3: Harmonized EN covering essential requirements under article 3.3(e) of the R&TTE Directive
ETSI EN 300 422-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement
ETSI EN 300 422-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI EN 300 433-1	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 equipment; Part 1: Technical characteristics and methods of measurement
ETSI 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 equipment; Part 2: Harmonized EN covering essential requirements under article 3.2 of R&TTE Directive
ETSI EN 300 440-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods SRD-Short Range Devices 1 GHz - 25 GHz
ETSI EN 300 440-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive



ETSI EN 301 166	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment for analogue and/or digital communication (speech and/or data) and operating on narrow band channels and having an antenna connector; Part 2: Harmonized EN covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 301 166-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Land Mobile Service; Radio equipment for analogue and/or digital communication (speech and/or data) and operating on narrow band channels and having an antenna connector; Part 1: Technical characteristics and methods of measurement
ETSI EN 301 357-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; Part 1: Technical characteristics and test methods
ETSI EN 301 357-2	Electromagnetic compatibility and Radio spectrum Matters (ERM); Cordless audio devices in the range 25 MHz to 2 000 MHz; Consumer radio microphones and in-ear monitoring systems operating in the CEPT harmonized band 863 MHz to 865 MHz; Part 2: Harmonised EN under Article 3(2) of the R&TTE Directive
ETSI EN 301 360	Satellite Earth Stations and Systems (SES); Harmonised Standard for Satellite Interactive Terminals (SIT) and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit, operating in the 27,5 GHz to 29,5 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI EN 301 390	Fixed Radio Systems; Point-to-point and Multipoint Systems; Spurious emissions and receiver immunity limits at equipment/antenna port of Digital Fixed Radio Systems
ETSI EN 301 426	Satellite Earth Stations and Systems (SES); Harmonized EN for Low data rate Land Mobile satellite Earth Stations (LMES) and Maritime Mobile satellite Earth Stations (MMES) not intended for distress and safety communications operating in the 1,5/1,6 GHz frequency bands covering essential requirements under article 3.2 of the Directive 2014/53/EU



ETSI EN 301 428	Satellite Earth Stations and Systems (SES); Harmonized EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit/receive or receive -only satellite earth stations operating in the 11/12/14 GHz frequency bands covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 301 443	Satellite Earth Stations and Systems (SES); Harmonized EN for Very Small Aperture Terminal (VSAT); Transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz Frequency Bands Covering Essential Requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 301 459	Satellite Earth Stations and Systems (SES); Harmonized EN for Satellite Interactive Terminals (SIT); and Satellite User Terminals (SUT) transmitting towards satellites in geostationary orbit in the 29.5 to 30.0 GHz frequency bands Covering Essential Requirements Under Article 3.2 of the Directive 2014/53/EU
ETSI EN 301 489-50 KN 301 489-50	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipments
ETSI EN 301 598	White Spaces Devices (WSD); wireless access systems operating in the 470Mz to 790Mz TV Broadcast band; harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 681	Satellite Earth Stations and Systems (SES); Harmonized EN for Mobile Earth Stations (MESS) of Geostationary mobile satellite systems, including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1,5/1,6 GHz bands under the Mobile Satellite Service (MSS) covering essential requirements under article 3.2 of the Directive 2014/53/EU
ETSI EN 301 893	Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 301 908-1	IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements



ETSI EN 301 908-18	IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS)
ETSI EN 302 208	Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W; Part 2: Harmonized EN under article 3.2 of the Directive 2014/53/EU
ETSI EN 302 208-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W; Part 1: Technical requirements and methods of measurement
ETSI EN 302 217-1	Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 1: Overview and system-independent common characteristics
ETSI EN 302 217-2-1	Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2-1: System-dependent requirements for digital systems operating in frequency bands where frequency co-ordination is applied
ETSI EN 302 217-2-2	Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 2-2: Harmonized EN covering essential requirements of Article 3.2 of R&TTE Directive for digital systems operating in frequency bands where frequency co-ordination is applied
ETSI EN 302 217-3	Fixed Radio Systems; Characteristics and requirements for point-to-point equipment and antennas; Part 3: Harmonized EN covering essential requirements of article 3.2 of R&TTE Directive for equipment operating in frequency bands where simplified or no frequency co-ordination procedures are applied
ETSI EN 302 291-1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13,56 MHz; Part 1: Technical characteristics and test methods
ETSI 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; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive



ETSI EN 302 326-1	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 1: Overview and Requirements for Digital Multipoint Radio Systems
ETSI EN 302 326-2	Fixed Radio Systems; Multipoint Equipment and Antennas; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive for Digital Multipoint Radio Equipment
ETSI EN 302 502	Broadband Radio Access Networks (BRAN);5,8 GHz fixed broadband data transmitting systems; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive
ETSI EN 303 978	Satellite Earth Stations and Systems (SES); Harmonised Standard for Earth Stations on Mobile Platforms (ESOMP) transmitting towards satellites in geostationary orbit, operating in the 27,5 GHz to 30,0 GHz frequency bands covering the essential requirements of article 3.2 of the Directive 2014/53/EU
ETSI TS 101 136	Satellite Earth Stations and Systems (SES); Guidance for general purpose earth stations transmitting in the 5,7 GHz to 30,0 GHz frequency bands towards geostationary satellites and not covered by other ETSI specifications or standards
FCC 47 CFR Part 101	Fixed Microwave services
FCC 47 CFR Part 11	Emergency Alert Systems
FCC 47 CFR Part 18	Industrial, Scientific and Medical Equipment
FCC 47 CFR Part 20.21	Signal Boosters
FCC 47 CFR Part 22	Public Mobile Services
FCC 47 CFR Part 24	Personal Communications Services
FCC 47 CFR Part 25	Satellite Communications
FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
FCC 47 CFR Part 73	Radio Broadcast Services
FCC 47 CFR Part 74	Experimental Radio, Auxiliary and Special Broadcast
FCC 47 CFR Part 80	Stations in Maritime Services
FCC 47 CFR Part 87	Aviation Services
FCC 47 CFR Part 90	Private Land Mobile Radio Services
FCC 47 CFR Part 95	Personal Radio Services
FCC 47 CFR Part 97	Amateur Radio Service



HKCA 1048	Performance Specification for User Equipment for Use in the Third Generation (3G) Mobile Communications Services Employing CDMA Direct Spread (UTRA FDD)
HKCA 1052	Performance Specification for Medical Implant Communication Systems
HKCA 1053	Performance Specification for Base Station and Repeater Equipment for Use in the Third Generation (3G) Mobile Communications Services Employing cdma2000 Spread Spectrum
HKCA 1054	Performance Specification for Mobile Station for Use in the Third Generation (3G) Mobile Communications Services Employing CDMA2000 Spread Spectrum
HKCA 1056	Performance Specification for Base Station and Repeater Equipment for Use in Public Mobile Communications Services based on Evolved Universal Terrestrial Radio Access (E-UTRA) Frequency Division Duplex (FDD)
HKCA 1057	Performance Specification for User Equipment for Use in Public Mobile Communications Services based on Evolved Universal Terrestrial Radio Access (E-UTRA) Frequency Division Duplex (FDD)
HKCA 1061	Performance Specification for Short Range Devices Operating in the 433 MHz Band
HKCA 1063	Performance Specification for Digital Fixed Link Equipment Operating in the 26 GHz Frequency Band
HKCA 1064	Performance Specification for Global System for Mobile Communications – Railway (GSM-R) Radiocommunications Equipment
HKCA 1065	Performance Specification for Multi-Standard Radio (MSR) Base Station
HKCA 1066	Performance Specification for Ground-Based VHF Radio Equipment for the VHF Aeronautical Mobile Service
HKCA 1067	Performance Specification for Ground-Based VHF Digital Link (VDL) Mode 2 Radio Equipment
HKCA 1068	Performance Specification for Digital Fixed Link Equipment operating in the 11GHz Frequency Band
HKCA 1069	Performance Specification for On-site Radio Paging Equipment
HKCA 1070	Performance Specification for Digital Fixed Link Equipment operating in the 13 GHz Frequency Band



HKCA 1071	Performance Specification for Digital Fixed Link Equipment operating in the 18 GHz Frequency Band
HKCA (HKTA) 1002	Performance Specification for Angle Modulated Radio Transmitters and Receivers for Use as Base, Mobile and Portable Equipment in the Land Mobile Radio Service
HKCA (HKTA) 1005	Performance Specification for Angle Modulated VHF Maritime Band Radio Equipment for Voluntary Fitting in Small Craft
HKCA (HKTA) 1007	Performance Specification for Radio Interference Limits and Methods of Measurements for Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment (Excluding Surgical Diathermy Apparatus and RF Exciting Arc-Welding Machines)
HKCA 1008	Performance Specification for Low Power Radio Microphones, Including Associated Receiving Equipment
HKCA (HKTA) 1010	Performance Specification for Angle Modulated Radio Transmitters and Receivers for use as Base, Mobile and Portable Equipment in the Land Mobile Radio Service and intended primarily for data applications
HKCA (HKTA) 1015	Performance Specification for Cordless Telephone Operating in the 864.1 - 868.1 MHz Band
HKCA (HKTA) 1016	Performance Specification for Angle Modulated Radio Equipment for Use at Repeater, Base and Mobile Stations in 800 MHz Trunked Radio
HKCA 1035	Performance Specification for Low Power Device
HKCA (HKTA) 1036	Performance Specification for Digital Fixed Link Equipment Operating in the 38 GHz Frequency Band
HKCA (HKTA) 1037	Performance Specification for Digital Fixed Link Equipment Operating in the 23 GHz Frequency Band
HKCA (HKTA) 1039	Performance Specification for Radiocommunications Apparatus Operating in the 2.4 GHz or 5 GHz Band and Employing Frequency Hopping or Digital Modulation
HKCA (HKTA) 1041	Performance Specification for Radiocommunications Apparatus Operating in the 27 MHz Band for Private Use
HKCA (HKTA) 1042	Performance Specification for Radio Equipment Operating in the 5 GHz Band for Wireless Access
HKCA (HKTA) 1044	Performance Specification for Short-range Portable Radio operating in the 409 MHz Band



HKCA (HKTA) 1046	Method of Measurement for Radio Transmitter for Use in the Land Mobile Service
HKCA (HKTA) 1049	Performance Specification for Radio Frequency Identification (RFID) Equipment Operating in the 865 - 868 MHz and/or 920 - 925 MHz Bands
HKCA (HKTA) 1051	Performance specification for Radio Frequency Identification (RFID) equipment operating in the 433 MHz band
IDA TS RPG	Technical Specifications for Radio Pagers (Public Paging Service)
IMDA TS LMR	Technical Specification for Land Mobile Radio Equipment
IMDA TS SRD	Technical Specification for Short Range Devices
IMDA TS WBA	Technical Specification for Wireless Broadband Access Equipment
IS2019	1.6/2.4GHz Satellite Personal Communications Networks (S PCN) Mobile Earth Stations (MESs) Technical Specifications
IS2034-1	Local Multipoint Distribution Service (LMDS) Microwave Base Station RF Equipment Type Equipment Approval Technical Specifications
IS2045-0	Base Station for Wireless Broadband Access Type Approval Technical Specification
Item 19 of Article 2 (Japan) using Test Method ARIB-STD T66	Radio equipment for low-power data communications system radio station using a radio wave of 2,400 - 2,483.5 MHz
Item 19-3 of Article 2 (Japan) using Test Method ARIB-STD T71	Radio equipment for low-power data communications system radio station which uses indoors a radio wave of 5,170 MHz, 5,190 MHz, 5,210 MHz or 5,230 MHz
Item 8 of Article 2 (Japan)	Radio equipment for specified low-power radio station
KS X 3123	Republic of Korea - Conformity Assessment Procedure for Type Approval and Type Registration of Radio Equipment
LP0002	Low Power Radio Frequency Devices Technical Regulations
NOM-121-SCT1-2009	Telecommunications - Radiocommunication - Radiocommunication systems employing spread spectrum techniques - radiocommunication equipment with frequency hopping and digital modulation operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz - specifications, limits and test methods.



NOM-EM-016-SCFI-2015 (Technical Provision IFT-008-2015)	Radiocommunication systems employing spread spectrum techniques - Radiocommunication equipment with frequency hopping and digital modulation operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz - specifications, limits and test methods (Published October 16, 2015)
PLMN02	1900 MHz Digital Low Tier PHS Radio Terminal Equipment Technical Specifications
PLMN03	1900 MHz Digital Low Tier PACS Radio Terminal Equipment Technical Specifications
PLMN04	Trunked Radio Terminal Equipment Technical Specifications
PLMN05	Mobile Data Radio Terminal Equipment Technical Specifications
PLMN06	Paging Receiver Radio Terminal Equipment Technical Specifications
PLMN07	1880-1895 MHz Wireless Private Exchange and Radio Terminal Equipment Technical Specifications
PLMN09	Subscriber Station for Wireless Broadband Access Type Approval Technical Specification
PLMN10	Technical Specifications for Mobile Broadband Subscriber Station
QCVN 54:2011/BTTTT	National technical regulation on radio equipment operating in the 2.4 GHz band and using spread spectrum modulation techniques
QCVN 55:2011/BTTTT	National technical regulation on short range devices - radio equipment in the frequency range 9 kHz to 25 MHz
RRA Public notification 2018-8	RRA Notice - Technical Requirements for Radio Equipment of Maritime Mobile Services
RRA Public notification 2019-3	RRA Notice - Technical Requirements for Measurement of Electromagnetic Field Strength
RRA Public notification 2018-9	RRA Notice - Technical Requirements for Radio Equipment of Aeronautical Mobile Service and Aeronautical Radio Service
RRA Public notification 2018-20	RRA Notice - Technical Requirements for Radio Equipment of Telecommunications Services
RRA Public notification 2018-26	RRA Notice - Technical Requirements of the other service radio equipment for simple radio station, space station and earth station



RSS 102 (NS)	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) – Nerve Stimulation
RSS 102 (RF exp.)	Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) – RF Exposure
RSS 111	Broadband Public Safety Equipment Operating in the Band 4940-4990 MHz
RSS 112	Land Mobile and Fixed Equipment Operating in the Band 1670-1675 MHz
RSS 117	Land And Coastal Station Transmitter Using A1, A2, A3 A2H Emission Operating in the Cellular Mobile Bands 824-849 MHz And 869-894 MHz
RSS 119	Land Mobile and Fixed Radio Transmitters and Receivers, 27.41 to 960.0 MHz
RSS 123	Lower Power Licensed Radiocommunication 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 849-851 MHz and 894-896 MHz
RSS 130	Mobile Broadband Services (MBS) Equipment Operating in the Frequency Bands 698-756 MHz and 777-787 MHz
RSS 131	Zone Enhancers for the Land Mobile Service
RSS 132	800 MHz Cellular Telephones employing new Technologies
RSS 133	2 GHz Licensed Personal Communications Services
RSS 134	Narrowband 900 MHz Personal Communications Services
RSS 135	Digital Scanner Receivers
RSS 137	Location and Monitoring Service in 902-928 MHz Band
RSS 139	Advanced Wireless Services Equipment Operating in the Bands 1710-1755 MHz and 2110-2155 MHz
RSS 140	Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz
RSS 141	Aeronautical Radiocommunication Equipment in the frequency band 117.975-137 MHz
RSS 142	Narrowband Multipoint Communication Systems in the 1427-1430 MHz and 1493.5-1496.5 MHz Bands



RSS 170	Satellite Mobile Earth Stations
RSS 181	Coast and Ship Station Single Band Radiotelephones, Transmitters and Receivers operating in the 1605 – 28000 kHz Band
RSS 182	Maritime Radio Transmitter and Receivers in the Band 156-162.5 MHz
RSS 191	Local Multipoint Communications Systems in the 28 GHz; Point-To-Point and Point-To-Multipoint Broadband Communication Systems in the 24 & 38 GHz Bands
RSS 192	Fixed Wireless Access Systems in the Band 3400-3700 MHz
RSS 194	Fixed Wireless Access Equipment Operating in the Band 953-960 MHz
RSS 195	Wireless Communications Service Equipment Operating in the bands 2305 -2320 MHz and 2345 – 2360 MHz
RSS 196	Point-to-Multipoint Broadband Equipment Operating in the Bands 512-608 MHz and 614-698 MHz for Rural Remote Broadband Systems (RRBS) (TV Channels 21 to 51)
RSS 197	Wireless Broadband Access Equipment Operating in the Band 3650-3700 MHz
RSS 199	Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz
RSS 210	Low-Power License - Exempt Radiocommunication Devices
RSS 211	Level Probing Radar Equipment
RSS 213	2 GHz License-Exempt Personal Communications Service (LE-PCS) Devices
RSS 215	Analogue Scanner Receivers
RSS 216	Wireless Power Transfer Devices
RSS 220	Devices Using Ultra-Wideband (UWB) Technology
RSS 222	White Space Devices (WSDs)
RSS 236	Land and Mobile Station Radio Telephone Transmitters & Receivers operating in 26.960-27.410 MHz General Radio Service Band
RSS 238	Commercial Shipborne Radar in the 2900-3100 MHz, 5470-5650 MHz and 9225-9500 MHz Bands
RSS 243	Active Medical Implant Communications System Devices in the 402 MHz to 405 MHz Band



RSS 244	RSS-244 — Medical Devices Operating in the Band 413-457 MHz
RSS 246	Ultra-Low Power (ULP) Wireless Medical Capsule Endoscopy Devices Operating in the 430-440 MHz Band
RSS 247	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
RSS 251	Field Disturbance Sensors in the Bands 46.7-46.9 GHz (Vehicular Radar) and 76-77 GHz (Vehicular and Airport Fixed Radar)
RSS 252	Intelligent Transportation Systems —Dedicated Short Range Communications (DSRC) — On-Board Unit (OBU)
RSS 287	Emergency Position Indicating Radio Beacons, Emergency Locator Transmitters and Personal Locator Beacons
RSS 288	Global Maritime Distress and Safety Systems (GMDSS)
RSS 310	Low-Power Licence-Exempt Radiocommunication Devices (All Frequency bands): Category II equipment
RSS GEN	General Requirements and Information for the Certification of Radiocommunication Equipment
RTTE01	2.4GHz Radio-frequency Telecommunications Terminal Equipment Technical Specification
TBR 41	Satellite Personal Communications Networks
TIA-102.CAAA-D	Digital C4FM/CQPSK Transceiver Measurement Methods
WINNF-TS-0122	WINNF Conformance and Performance Test Technical Specification

(FCC Laboratory Scope - Electromagnetic Compatibility & Telecommunications – in accordance with KDB 974614 D01, Appendix A, Table A1)

Test Methods and Maximum Frequencies	Scope
ANSI C63.4-2014; 220000 MHz	Unintentional Radiators (FCC Part 15, Subpart B)
FCC MP-5 (February 1986); 220000 MHz	Industrial, Scientific, and Medical Equipment (FCC Part 18)
ANSI C63.10-2013; 220000 MHz	Intentional Radiators (FCC Part 15 Subpart C)
ANSI C63.17-2013; 220000 MHz	Unlicensed Personal Communication Systems devices (FCC Part 15, Subpart D)
ANSI C63.10-2013; 220000 MHz	U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E)



FCC KDB Publication 905462 D02 U-NII DFS Compliance Procedures New Rules v02 (April 8, 2016); 220000 MHz	U-NII with DFS Intentional Radiators (FCC Part 15 Subpart E)
ANSI C63.10-2013; 220000 MHz	UWB Intentional Radiators (FCC Part 15, Subpart F)
ANSI C63.10-2013; 220000 MHz	BPL Intentional Radiators (FCC Part 15, Subpart G)
ANSI C63.10-2013; 220000 MHz	White Space Device Intentional Radiators (FCC Part 15, Subpart H)
ANSI C63.26-2015; 220000 MHz	Commercial Mobile Services (FCC Licensed Radio Service Equipment) Part 22 (cellular) Part 24 Part 25 (below 3 GHz) Part 27
ANSI C63.26-2015; 220000 MHz	General Mobile Radio Services (FCC Licensed Radio Service Equipment) Part 22 (non-cellular) Part 90 (below 3 GHz) Part 95 (below 3 GHz) Part 97 (below 3 GHz) Part 101 (below 3 GHz)
ANSI C63.26-2015; 220000 MHz	Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96
ANSI C63.26-2015; 220000 MHz	Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) Part 80 Part 87
ANSI C63.26-2015; .220000 MH	Microwave and Millimeter Wave Bands Radio Services (FCC Licensed Radio Service Equipment) Part 25 Part 30 Part 74 Part 90 (above 3 GHz) Part 95 (above 3 GHz) Part 97 (above 3 GHz) Part 101
ANSI C63.26-2015; 220000 MHz	Broadcast Radio Services (FCC Licensed Radio Service Equipment) Part 73 Part 74 (below 3 GHz)
ANSI C63.26-2015; 220000 MHz	Signal Boosters (Part 20) Wideband Consumer signal boosters Provider-specific signal boosters Industrial signal boosters



(Safety Requirements)

<p>ANSI/AAMI ES60601-1* CAN/CSA-C22.2 No. 60601-1* EN 60601-1* IEC 60601-1*</p>	<p>Medical electrical equipment - Part 1: General requirements for basic safety and essential performance.</p> <p>Except for: Natural latex rubber tests in an oxygen atmosphere Materials group classification (Tracking index as per IEC 60112) CRT Hand transmitted vibration test (ISO 5349-1) Hydraulic Pressure Test X-radiation measurements Spark Ignition Test Sterilization tests PTC Thermistor tests (IEC 60730-1) Lithium battery tests (IEC 60086-4) Prevention of electrostatic charges (ISO 1853, ISO 2878, ISO 23529) Insulated winding wire tests (IEC 60851 series)</p>
<p>CAN/CSA C22.2 No. 60950-1* AS/NZS 60950.1* IEC 60950-1* EN 60950-1* UL 60950-1*</p>	<p>Safety of Information Technology Equipment Except for: Creepage distances (Tracking index as per IEC 60112) Partial Discharge Test (IEC 60747-5-5) AC Power Supply cords (IEC 60227) Cathode Ray Tube (CRT)</p>
<p>EN 60215*</p>	<p>Safety requirements for radio transmitting equipment Except for: Resistance to ingress of water (IEC Publication 68-2); Insulation (IEC Publication 112-CTI); Flammability as per IEC Publication 695; Cl.21.2- Implosion</p>
<p>EN 61010-2-010* IEC 61010-2-010* CAN/CSA 61010-2-010* UL 61010-2-10*</p>	<p>Safety requirements for electrical equipment for measurement, control and laboratory use-Part 2-010: Particular requirements for laboratory equipment for the heating of materials</p>
<p>EN 61010-2-030* IEC 61010-2-030* CAN/CSA 61010-2-030* UL 61010-2-30*</p>	<p>Safety requirements for electrical equipment for measurement, control, and laboratory use-Part 2-030: Particular requirements for testing and measuring circuits</p>



EN 61010-2-101* IEC 61010-2-101* CAN/CSA 61010-2-101* UL 61010-2-101*	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use-Part 2-101: Particular Requirements for In Vitro Diagnostic (IVD) Medical Equipment
EN 61010-2-81* IEC 61010-2-81* CAN/CSA 61010-2-81* UL 61010-2-81*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use-Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes
EN 61010-1* CAN/CSA C22.2 No. 61010-1* IEC 61010-1* UL 61010-1*	Safety Requirements for Electrical Equipment for Measuring, Control and Laboratory Use, Part I - General Requirements Except for: Creepage distance (Tracking index) Insulating materials (VICAT A) as per IEC 60112) UV Radiation Microwave Radiation Ultrasonic Pressure Cathode Ray Tube (CRT) Softening temperature (Vicat ISO 306 Method) Specially protected equipment (IP rated) Leakage and rupture at high pressure
IEC 60601-1-11* EN 60601-1-11* CAN/CSA-C22.2 No. 60601-1-11* ANSI/AAMI HA60601-1-11*	Medical electrical equipment Part 1-11: General requirements for basic safety and essential performance Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
IEC 60601-1-6* EN 60601-1-6* CAN/CSA-C22.2 No. 60601-1-6*	Medical electrical equipment Part 1-6: General requirements for basic safety and essential performance Collateral standard: Usability
IEC 60601-1-8* EN 60601-1-8* CAN/CSA-C22.2 No. 60601-1-8* ANSI/AAMI/IEC 60601-1-8*	Medical electrical equipment Part 1-8: General requirements for basic safety and essential performance Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems
IEC 60825-1* EN 60825-1*	Safety of Laser Products - Part 1: Equipment classification, requirements and user's guide
IEC 60825-2* EN 60825-2*	Safety of Laser Products - Part 2: Safety of optical fibre communication systems



IEC 60950-21* CAN/CSA C22.2 No. 60950-21* EN 60950-21* UL 60950-21*	Information technology equipment - Safety, Part 21: Remote Power Feeding
IEC 61010-2-201* EN 61010-2-201* UL 61010-2-201* CAN/CSA C22.2 No. 61010-2-201*	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-201: Particular requirements for control equipment
IEC 62304	Medical device software - Software life cycle processes
IEC 62366	Medical devices - Application of usability engineering to medical devices
IEC 62368-1* EN 62368-1* CAN/CSA-C22.2 No. 62368-1* UL 62368-1*	Audio/video, information and communication technology equipment - Part 1: Safety requirement
Korean Safety*	RRA Notice 2011-14 (2011.02.28)
Vietnam safety: QCVN 22:2010/BTTTT*	National technical regulation on electrical safety of Telecommunications Terminal Equipment Except for: Flammable Liquids measurement Effect of UV Radiation on materials (Table 4A tests) Human exposure to UV Radiation (IEC 60825-9) Hot Flaming Oil Test Mandrel test as per IEC 61558
Taiwan Safety: CNS 14336*	Safety of Information Technology Equipment including Electrical Business Equipment
UL 60065* EN 60065* CAN/CSA C22.2 No. 60065* IEC 60065*	Standard for Audio, Video and Similar Electronic Apparatus-Safety Requirements Except for: Softening temperature test as per ISO 306 ; Vibration Test ; Dielectric Strength test for sheet materials (fig 6); Vibration Test; Remote Controls (Tumbling barrel) ; Creepage distances (proof tracking index) ; Capacitors and RC units ; Thermal cutouts (IEC 60730); Fuse links and Fuseholders (IEC 60127); PTC Thermistors (IEC 60730-1); Switches (IEC 61058-1); Surge Suppressor Resistors; (IEC 61051-2); Plugs and sockets (IEC 60083, IEC 60320, IEC 60884 and IEC 60906); External Flexible Cords (IEC 60227); Mechanical Strength of picture tubes and protection against effects of implosion ; For apparatus with protection against splashing water (IEC 60529) ; Insulated winding wires for use with interleaved insulation



UL 60601-1* CAN/CSA C22.2 601.1* EN 60601-1* IEC 60601-1*	Medical Electrical Equipment, Part 1: General Requirements for Safety
EN 60204-1 IEC 60204-1	Electrical equipment of machines Part 1: General requirements

Number of Scope Listings: 419

Notes:

- *- Marked test methods are also performed at sites away from the main location (on-site testing)
- △- Marked test methods are also performed at the permanent additional facility located at 1500 Peter Robinson Side Road, West Carleton, Ontario, KOA 1L0 (3 m/10 m Open Area Test Site)
- + - Marked test methods – tests at frequencies below 1 GHz are performed at the permanent additional facility located at 1500 Peter Robinson Side Road, West Carleton, Ontario, KOA 1L0 (3 m/10 m Open Area Test Site)

ISO/IEC 17025:2017: General Requirements for the Competence of Testing and Calibration Laboratories

CISPR: International Special Committee on Radio Interference

VCCI: Voluntary Control Council for Interference by Information Technology Equipment (Japan)

ADSL: Asymmetric Digital Subscriber Line (National Communications Commission – Taiwan)

KDB: Knowledge Database (Federal Communications Commission)

IDA: Info-Communications Development Authority (Singapore)

RSS: Radio Standards Specifications (ISED)

RTTE: Radio-frequency Telecommunications terminal equipment (National Communications Commission – Taiwan)

TBR: Technical Basis for Regulation (European Telecommunications Standards Institute)

TIA: Telecommunications Industry Association

RRL: Radio Research Laboratory (Korea)

PLMN: Public Land Mobile Network

QCVN: Quy Chuan Viet Nam

3GPP: 3rd Generation Partnership Project

IMDA: Infocomm Media Development Authority (Singapore)

KN: Korean National Standards

RRA: Korean Radio Research Agency

HKTA: Hong Kong Telecommunications Authority

HKCA: Hong Kong Communications Authority

ETSI: European Telecommunications Standards Institute

ETS: European Telecommunication Standard

TNA: Telecom New Zealand

TE: Independent Communications Authority of South Africa (ICASA)

PTC: Telecom New Zealand



PSTN: Public Switched Telephone Network (Taiwan)
MIC: Ministry of Information and Communication (Korea)
IS: National Communications Commission (Taiwan)
ID: Technical Regulations (Taiwan)
IC: Industry Canada (ISED)
AS/NZS Australia / New Zealand Standard
ANSI/AAMI: American National Standards Institute/The Association for the Advancement of Medical Instrumentation
AS/CA: Communications Alliance (Australia)
AS/ACIF: Communications Alliance (Australia)
UL: Underwriters Laboratories
CSA: Canadian Standards Association
EN; European Standard
IEC: International Electrotechnical Commission
FCC: Federal Communications Commission
CCR: California Code of Regulations

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