

AKKREDITOITU TESTAUSLABORATORIO

ACCREDITED TESTING LABORATORY



VERKOTAN OY

VERKOTAN LTD.

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Testausalat
Fields of testing
EMC/RF testaus
EMC/RF testing
Sähkölaitteet ja tarvikkeet
Electrical equipment and accessories

PÄTEVYYSALUE SCOPE OF ACCREDITATION		
Testattava materiaali / tuote <i>Material / product tested</i>	Testattava komponentti / parametri / ominaisuus Component / parameter / characteristic tested	Testausmenetelmä / standardi / tekniikka <i>Test method / standard specification / techniques</i>
EMC/RF testaus, RF, Elektroniikkatie EMC/RF testing, RF, Elektroniikkatie		
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	User Equipment (UE) / Mobile Station (MS) Over-The-Air (OTA) antenna performance; Conformance testing	3GPP TS 34.114:2016
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Measurements of User Equipment (UE) radio performances for LTE/UMTS terminals; Total Radiated Power (TRP) and Total Radiated Sensitivity (TRS) test methodology	3GPP TR 37.902:2025
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Measurements of radio performances for UMTS terminals in speech mode	3GPP TR 25.914:2024
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Over The Air (OTA) performance; Conformance testing	3GPP TS 37.544:2025, 6. Transmitter performance 7. Receiver performance
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	IEC/EN 301 908-2:2020, 4.2.14 Receiver total radiated sensitivity (TRS) 4.2.15 Total radiated power (TRP)
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	IEC/EN 301 908-13:2024 4.2.13 Receiver total radiated sensitivity (TRS) 4.2.13 Total radiated power (TRP)
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 23: Active Antenna System (AAS) Base Station (BS)	IEC/EN 301 908-23:2023 4.3.17 Radiated transmit power 4.3.24 OTA sensitivity
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Harmonised Standard for access to radio spectrum; Part 24: New Radio (NR) Base Stations (BS)	IEC/EN 301 908-24:2023 4.3.16 Radiated Transmit Power 4.3.24 OTA sensitivity

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Tukiasema ja oheislaitteet Basestation and ancillary equipment	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Active Antenna System (AAS) Base Station (BS) conformance testing Part 2: Radiated conformance testing	3GPP TS 37.145-2:2025, 6.2 Radiated transmit power; 7.2 OTA sensitivity
Tukiasema ja oheislaitteet Base station and ancillary equipment	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Base Station (BS) conformance testing - Part 2: Radiated conformance testing	3GPP TS 38.141-2:2025, 6.2 Radiated transmit power; 7.2 OTA sensitivity
Radiolaitteet Radio devices	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	EN 303 413:2021, excluding radiated spurious emissions test
Langattomasti kommunikoivat laitteet Wireless devices	Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and electromagnetic Fields (up to 300 GHz)	ICNIRP 1998 ICNIRP 2020
Langattomasti kommunikoivat laitteet Wireless devices	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear	EN 50360:2017 + A1:2023

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Radiolaitteet Radio devices	Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100GHz), when placed on the market	EN 50385:2017
Radiolaitteet Radio devices	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)	EN 50663:2017
Langattomasti kommunikoivat laitteet Wireless devices	Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	EN 50665:2017
Langattomasti kommunikoivat laitteet Wireless devices	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body	EN 50566:2017 + A1:2023 EN 50360
Langattomasti kommunikoivat laitteet Wireless devices	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (frequency range of 300 MHz to 6 GHz)	IEC/EN 62209-1:2016

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Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 300 MHz to 6 GHz)</i>	<i>IEC/EN 62209-2:2010 + A1:2019</i>
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques</i>	<i>IEEE 1528-2013</i>
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)</i>	<i>IEC/EN/IEEE 62209-1528:2021</i>
Radiolaitteet <i>Radio devices</i>	<i>Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure</i>	<i>IEC/EN 62232:2022</i>
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)</i>	<i>IEC/EN 62311:2008 IEC/EN 62311:2020</i>
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>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)</i>	<i>IEC/EN 62479:2010</i>

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Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102	RSS-102.NS.MEAS, Issue 1
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102	RSS-102.SAR.MEAS, Issue 2
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	RSS-102, Issue 6
sLangattomasti kommunikoivat laitteet <i>Wireless devices</i>	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz	ANSI/IEEE C95.1-2019
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	IEEE Recommended Practice for Measurements and Computations of Electric, Magnetic, and Electromagnetic Fields with Respect to Human Exposure to Such Fields, 0 Hz to 300 GHz	ANSI/IEEE C95.3:2021
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	EU Council Recommendation of 12 July 1999 in the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz)	1999/519/EC
Radiolaitteet <i>Radio devices</i>	Radiofrequency radiation exposure evaluation: Mobile devices.	47 CFR § 2.1091:1998
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	Radiofrequency Radiation Exposure Evaluation: Portable Devices	47CFR §2.1093:1998
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	RF Exposure	FCC Published RF Exposure KDB Procedures

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Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>Assessment methods of the human exposure to electric and magnetic fields from wireless power transfer systems – Models, instrumentation, measurement and computational methods and procedures (frequency range of 3 kHz to 30 MHz)</i>	EN/IEC/ IEEE 63184:2025
Lyhyen kantaman laitteet <i>Short range devices (SRD)</i>	<i>Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by devices used for electronic article surveillance, radio frequency identification and similar systems</i>	EN 62369-1:2009 IEC 62369-1:2008
EMC/RF testaus, Kyberturvallisuus, Elektroniikkatie EMC/RF testing, Cybersecurity, Elektroniikkatie		
Radiolaitteet <i>Radio devices</i>	<i>Common security requirements for radio equipment - Part 1: Internet connected radio equipment</i>	EN 18031-1:2024
Radiolaitteet <i>Radio devices</i>	<i>Common security requirements for radio equipment - Part 2: radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment</i>	EN 18031-2:2024
EMC/RF testaus, EMC, Konekuja EMC/RF testing, EMC, Konekuja		
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>Wireless power transmission systems, using technologies other than radio frequency beam in 19-21 kHz, 59-61 kHz, 79-90 kHz, 100-300 kHz, 6765-6795 kHz ranges: Essential requirements</i>	ETSI EN 303 417 V1.1.1 (2017-09)
Yleiset laitteet <i>General devices</i>	<i>Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test</i>	EN 61000-4-2: 2009 IEC 61000-4-2:2008

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Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques – Radiated, radio-frequency electromagnetic field immunity test	IEC/EN 61000-4-3: 2020
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	IEC/EN 61000-4-4: 2012
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test	IEC/EN 61000-4-5: 2014 + IEC 61000-4-5:2014/A1:2017
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	IEC/EN 61000-4-6 2023
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	EN 61000-4-8 2010 IEC 61000-4-8:2009
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test	IEC/EN 61000-4-9 2016
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	IEC/EN 61000-4-11 2020

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Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	CISPR 16-2-1: 2014/A1:2017 IEC/EN 55016-2-1 :2014/A1
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	CISPR 16-2-3: 2016 + CISPR 16-2-3: 2016/A1: 2019 + CISPR 16-2-3: 2016/AMD2:2023 IEC/EN 55016-2-3: 2017+A1+A2:2023
220–240 VAC/ 50 Hz powered equipment	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	EN 61000-3-2: 2019+A1:2021 IEC 61000-3-2:2018 + IEC 61000-3-2:2018/A1:2020
220–240 VAC/ 50 Hz powered equipment	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 ≤ 16 A per phase and not subject to conditional connection	EN 61000-3-3: 2013+A1+A2:2021 IEC 61000-3-3: 2013 + IEC 61000-3-3: 2013/A1:2017 + IEC 61000-3-3: 2013/A2:2021
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	EN 61000-6-1: 2019 IEC 61000-6-1: 2016
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity standard for industrial environments	EN 61000-6-2: 2019 IEC 61000-6-2: 2016

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Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for equipment in residential environments	EN 61000-6-3: 2021 IEC 61000-6-3:2020
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments	EN 61000-6-4: 2019 IEC 61000-6-4: 2018
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations	IEC/EN 61000-6-8:2020
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	CISPR 11: Edition 6.1, June 2016 IEC/EN 55011 + A1 + A11 + A2: April 2016, April 2017, March 2020, April 2021
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) 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; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	IEC/EN 300 330 V2.1.1 (2017-02) Limitation to spurious emissions
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Specification for radio disturbance and immunity measuring apparatus and methods Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements	CISPR 16-1-4: Edition 4.0, 2023 IEC/EN 55016-1-4: 2019+A1+A2:2023

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Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	CISPR 14-1: Edition 7.0, 2020 IEC/EN 55014-1: 2021
Yleiset laitteet General devices	Electromagnetic compatibility (EMC) Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	CISPR 14-2: Edition 3.0, 2020 IEC/EN 55014-2: 2021
Sähköinen valaistus ja samankaltaiset laitteet Electrical lighting and similar equipment	Electromagnetic compatibility (EMC) Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment Emission requirements	CISPR 15: 2018 IEC/EN 55015: 2019+A11:2020
Tietotekniikan laitteet Information technology equipment	Electromagnetic compatibility (EMC) Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	CISPR 22: Edition 6.0, 2008 IEC/EN 55022: 2010
Multimedialaitteet Multimedia equipment	Electromagnetic compatibility (EMC) Electromagnetic compatibility of multimedia equipment - Emission requirements	CISPR 32: 2015 + CISPR 32:2015/A1:2019 IEC/EN 55032 + A11 + A1: July 2015, March 2020, December 2020
Multimedialaitteet Multimedia equipment	Electromagnetic compatibility (EMC) Electromagnetic compatibility of multimedia equipment - Immunity requirements	CISPR 35: 2016, modified IEC/EN 55035 + A11: July 2017, May 2020
Sähköinen valaistus ja samankaltaiset laitteet Electrical lighting and similar equipment	Electromagnetic compatibility (EMC) Equipment for general lighting purposes - EMC immunity requirements	EN 61547: April 2023 IEC 61547: 2020

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Rakennuslaitteistot. mekatroniset sylinterit <i>Building hardware. mechatronic cylinders</i>	<i>Electromagnetic compatibility (EMC) Building hardware - Mechatronic cylinders - Requirements and test methods</i>	<i>IEC/EN 15684: 2020 4.2.6 ESD</i>
Rakennuslaitteistot. mekatroniset sylinterit <i>Building hardware. mechatronic cylinders</i>	<i>Electromagnetic compatibility (EMC) Building hardware - Mechatronic door furniture - Requirements and test methods</i>	<i>IEC/EN 16867: 2020+A1:2021 4.2.10 ESD requirements 4.2.12 Voltage drop protection</i>
Lyhyen kantaman laitteet <i>Short range devices (SRD)</i>	<i>Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz;</i>	<i>IEC/EN 300 220-1 V3.1.1 (2017-02) Limited to unwanted spurious emissions</i>
Laajakaistaiset lähetyksjärjestelmät <i>Wideband transmission systems</i>	<i>Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum</i>	<i>ETSI EN 300 328 V2.2.2 (2019-07)</i>
Lyhyen kantaman laitteet <i>Short range devices (SRD)</i>	<i>Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU</i>	<i>IEC/ETSI EN 300 440 V2.1.1 (2017-03) 4.3.5 Spurious radiations</i>
Langattomasti kommunikoivat laitteet <i>Wireless devices</i>	<i>ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility</i>	<i>IEC/ETSI EN 301 489-1 V2.2.3 (2019-11)</i>
Lyhyen kantaman laitteet <i>Short range devices (SRD)</i>	<i>ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for ElectroMagnetic Compatibility</i>	<i>IEC/ETSI EN 301 489-3 V2.3.2 (2023-01)</i>

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Laajakaistaiset tiedonsiirtojärjestelmät <i>Broadband data transmission systems</i>	<i>ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility</i>	<i>IEC/ETSI EN 301 489-17 V3.2.4 (2020-09)</i>
ROMES ja GNSS <i>ROMES and GNSS</i>	<i>ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU</i>	<i>IEC/ETSI EN 301 489-19 V2.2.1 (2022-09)</i>
Tukiasemat / apulaitteet <i>BS / ancillary equipment</i>	<i>ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility</i>	<i>IEC/ETSI EN 301 489-50 V2.3.1 (2021-03)</i>
Matkapuhelinlaitteet, apulaitteet <i>Cellular devices, ancillary equipment</i>	<i>ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility</i>	<i>IEC/ETSI EN 301 489-52 V1.2.1 (2021-11)</i> <i>Limitation: EMC room measurement length 3m</i>

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Matkapuhelinlaitteet Cellular devices	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	IEC/ETSI EN 301 511 V12.5.1 (2017-03) Spurious emissions, clauses 5.2.16 and 5.2.17
Langattomasti kommunikoivat laitteet Wireless devices	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	IEC/ETSI EN 301 893 V2.1.1 (2017-05) Limited to radiated spurious emissions
Matkapuhelinlaitteet Cellular devices	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements	ETSI EN 301 908-1 V15.2.1 (2023-01) Limited to radiated spurious emissions
Matkapuhelinlaitteet Cellular devices	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	ETSI EN 301 908-13 V13.2.1 (2022-02) Limited to radiated spurious emissions
Tukiasemat BS	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	IEC/ETSI EN 301 908-14 V15.1.1 (2021-09) Limited to radiated spurious emissions
GNSS GNSS	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum	IEC/ETSI EN 303 413 V1.2.1 (2021-04) 5.5 Receiver spurious emissions
Yleiset laitteet General devices	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 ANSI C63.4-2014+C63.4a-2017

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Yleiset laitteet General devices	Code of Federal Regulations, Part 15 - Radio Frequency Devices; Subpart B - Unintentional Radiators	CFR 47 FCC Part 15, Subpart B, 2020
Ulkoiset virtalähteet External power supplies	Innovation, Science and Economic Development Canada, Spectrum Management and Telecommunications, Interference-Causing Equipment Standard, Information Technology Equipment (including Digital Apparatus)	ICES-003, Issue 7
Lääketieteelliset sähkölaitteet Medical electrical equipment	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic disturbances - Requirements and tests (IEC 60601-1-2:2014 + IEC 60601-1-2:2014/A1:2020)	IEC/EN 60601-1-2:2015+A1:2021 Except proximity magnetic fields (IEC/EN 61000-4-39) and electrical transient conduction along supply lines (ISO 7637-2) IEC/EN 60601-1-2:2014 + IEC 60601-1-2:2014/A1:2020 Except proximity magnetic fields (IEC 61000-4-39) and electrical transient conduction along supply lines (ISO 7637-2)
Radioaaltoja tuottavat laitteet Intentional radiators	Procedures for Compliance Testing of Unlicensed Wireless Devices Code of Federal Regulations, Part 15 - Radio Frequency Devices; Subpart C - Intentional Radiators	ANSI C63.10:2020 CFR 47 FCC Part 15, Subpart C
Teolliset, tieteelliset ja lääketieteelliset laitteet Industrial, Scientific, and Medical Equipment	Methods of measurements of radio noise emissions from industrial scientific and medical equipment	FCC/OET MP-5:1986-02 CFR 47 FCC Part 18
Radiolaitteet Radio devices	General Requirements for Compliance of Radio Apparatus	RSS-Gen, Issue 5
Radiolaitteet Radio devices	License-Exempt Radio Apparatus: Category I Equipment	RSS-210, Issue 11

PÄTEVYYSALUE SCOPE OF ACCREDITATION		
Testattava materiaali / tuote Material / product tested	Testattava komponentti / parametri / ominaisuus Component / parameter / characteristic tested	Testausmenetelmä / standardi / tekniikka Test method / standard specification / techniques
Radiolaitteet Radio devices	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices	RSS-247, Issue 3
Yleiset laitteet General devices	Industrial, Scientific and Medical (ISM) Equipment	ICES-001, Issue 5
Yleiset laitteet General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	EN IEC 61326-1:2021 IEC 61326-1:2020
Yleiset laitteet General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	EN IEC 61326-2-1:2021 IEC 61326-2-1:2020
Yleiset laitteet General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems	EN IEC 61326-2-2:2021 IEC 61326-2-2:2020
Yleiset laitteet General devices	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 IEC 61326-2-3:2021 IEC 61326-2-3:2020

PÄTEVYYSALUE SCOPE OF ACCREDITATION		
Testattava materiaali / tuote Material / product tested	Testattava komponentti / parametri / ominaisuus Component / parameter / characteristic tested	Testausmenetelmä / standardi / tekniikka Test method / standard specification / techniques
Yleiset laitteet General devices	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 IEC 61326-2-4:2021 IEC 61326-2-4:2020
Yleiset laitteet General devices	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 field bus interfaces according to IEC 61784-1	EN IEC 61326-2-5:2021 IEC 61326-2-5:2020
Yleiset laitteet General devices	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-6: Particular requirements - In vitro diagnostic (IVD) medical equipment	EN IEC 61326-2-6:2021 IEC 61326-2-6:2020
Sähkölaitteet ja tarvikkeet, Audio- ja videolaitteet sekä tieto- ja tietoliikennetekniikan laitteet, Elektroniikkatie Electrical equipment and accessories, Audio/video, information and communication technology, Elektroniikkatie		
Audio/video, informaatio- ja kommunikaatio- teknologialaitteet Audio/video, information and communication technology equipment	Turvallisuustestaus Safety testing	Part 1: Safety requirements; IEC/EN/ 62368-1:2014, , Excluded: 5.4.4.6.5, 5.4.7, 5.4.9, 5.4.10.2, 5.4.11.3, 5.6.6.2, 5.7, 8.5.5, 8.6.2, 8.6.4, 8.6.5, 10.5.3, 10.6.3, 10.6.4, , 10.6.5.4, Annex C, Annex D, Annex E, Annex G, Annex H, Annex J, Annex K.6.2, Annex K.7, Annex M.7, Annex M.8, Annex P.5, Annex Q, Annex R, Annex S, Annex U

PÄTEVYYSALUE SCOPE OF ACCREDITATION		
Testattava materiaali / tuote Material / product tested	Testattava komponentti / parametri / ominaisuus Component / parameter / characteristic tested	Testausmenetelmä / standardi / tekniikka Test method / standard specification / techniques
Audio/video, informaatio- ja kommunikaatio- teknologialaitteet <i>Audio/video, information and communication technology equipment</i>	Turvallisuustestaus <i>Safety testing</i>	<i>Part 1: Safety requirements; IEC 62368-1:2023, BS/EN/IEC 62368-1:2024, UL/CSA 62368-1 4th edition. Excluded: 5.4.4.6.5, 5.4.7, 5.4.9, 5.4.10.2, 5.4.11.3, 5.6.6.2, 5.7, 8.5.5, 8.6.2, 8.6.4, 8.6.5, 10.5.3, 10.6.4, 10.6.5, 10.6.6.4, Annex C, Annex D, Annex E, Annex G, Annex H, Annex J, Annex K.6.2, Annex K.7, Annex M.7, Annex M.8, Annex P.4.2, Annex Q, Annex R, Annex S, Annex U, Annex X, Annex Y.3.2, Annex Y.3.3, Annex Y.3.4, Annex Y.4.2, Annex Y.4.3, Annex Y.4.4, Annex Y.4.5, Annex Y.5.3, Annex Y.5.5.2, Annex Y.5.5.3</i>