



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid to: May 31, 2025

Certificate Number: 0839.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's FDA ASCA Accreditation Program⁶ requirements), accreditation is granted to this laboratory at the location listed above, ***as well as the satellite laboratory location listed below***, to perform the following electromagnetic compatibility, radio, telecom, and product safety tests:

Test Technology:

Test Method(s) ⁴:

Radio Tests (excluding SAR where applicable)

Radio frequency device

CFR 47 Part 15 Subparts C/D/E/F/G/H
(using ANSI C63.10:2013 and ANSI C63.17:2013);
CFR 47 Parts 20, 22, 24, 25, 27, 30, 74, 90, 95, 96, 97,
101 (using TIA/EIA 603-E:16 and ANSI C63.26:2015);
ANSI C63.27:17;
ANSI C63.27:21

Private land mobile radio services

CFR 47 Part 90 (using, TIA/EIA 603-E:16)

Low power license-exempt radio

RSS-210;

communication devices (all frequency bands)

RSS Gen

Canada Radio Standards Specification

RSS-102 Measurement (RF Exposure, NS); SPR-002;
IEEE C95.3;

RSS-111; RSS-112; RSS-119; RSS-123; RSS-125;
RSS-130; RSS-131; RSS-132; RSS-133; RSS-134;
RSS-137; RSS-139; RSS-140; RSS-142; RSS-191;
RSS-192; RSS-194; RSS-195; RSS-196; RSS-197;
RSS-199; RSS-211; RSS-213; RSS-216; RSS-220;
RSS-222; RSS-243; RSS-247; RSS-248; RSS-251;
RSS-310

Radio equipment and systems - Short range
devices

AS/NZS 4268

Analogue speech (angle modulated) equipment
operating in land mobile and fixed services
bands in the frequency range 29.7 MHz to 1
GHz

AS/NZS 4295

Test Technology:**Test Method(s) ⁴:*****Radio Tests (Cont.) (excluding SAR where applicable)***

Digital radio equipment operating in land mobile and fixed services bands in the frequency range 29.7 MHz to 1 GHz, Part 1	AS/NZS 4768.1; AS/NZS 4768.2; AS/NZS 4768.3
Radio equipment to be used in the 25 MHz to 1,000 MHz frequency range with power levels ranging up to 500 mW	EN 300 220-1; EN 300 220-2; EN 300 220-3-1; EN 300 220-3-2; EN 300 220-4
Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz	EN 300 330
Radio equipment to be used in the 1 GHz to 40 GHz frequency range	EN 300 440
Social Alarms Equipment operating in the frequency range 25 MHz to 1 000 MHz	EN 303 406
Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands	EN 303 413
Wireless power transmission systems, using technologies other than radio frequency beam, in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges	EN 303 417
Short Range Devices (SRD); Inductive loop systems for robotic mowers in the frequency range 0 Hz to 148,5 kHz	EN 303 447 V 1.2.1:20; EN 303 447
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range; Part 1: Technical characteristics and test methods	EN 305 550-1 V1.2.1:14; EN 305 550-2 V1.2.1:14; EN 305 550
White Space Devices (WSD); Wireless Access Systems operating in the 470 MHz to 790 MHz TV broadcast band; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	EN 301 598 V2.1.1:18; EN 301 598
Land mobile service; Radio equipment with an internal or external RF connector intended primarily for analogue speech	EN 300 086
Land mobile service; Radio equipment intended for the transmission of data (and/or speech) using constant or non-constant envelope modulation and having an antenna connector	EN 300 113
Electromagnetic compatibility and radio spectrum matters (ERM); Land mobile service; Radio equipment intended for the transmission of data (and speech) and using an integral antenna	EN 300 390

Test Technology:**Test Method(s) ⁴:*****Radio Tests (Cont'd) (excluding SAR where applicable)***

WB transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques	EN 300 328
Fixed radio systems; Point-to-point equipment	EN 301 126-1
Fixed radio systems; Conformance testing	EN 301 126-2-1
Point-to-Multipoint equipment - FDMA equipment	EN 301 126-2-2
Point-to-Multipoint equipment - Test procedures for FH-CDMA equipment	EN 301 126-2-4
Point-to-Multipoint equipment - Test procedures for DS-CDMA equipment	EN 301 126-2-5
Point-to-Multipoint equipment - Test procedures for MC-TDMA equipment	EN 301 126-2-6
Fixed radio systems; Point-to-Multipoint systems; Spurious emissions and receiver immunity limits at equipment/antenna port of digital fixed radio systems	EN 301 390 V1.3.1:13; EN 301 390
Short Range Devices (SRD) using Ultra Wide Band technology (UWB)	EN 302 065-1; EN 302 065-2; EN 302 065-3; EN 302 065-4; EN 302 065-5
Point-to-multipoint equipment and antennas	EN 302 326-1; EN 302 326-2 V2.1.0:20; EN 302 326-2; EN 302 326-3 V1.3.1:08; EN 302 326-3
Fixed radio systems; Characteristics and requirements for point to point equipment/antennas	EN 302 217-2-2 V2.2.1:14; EN 302 217-2 V3.2.2:20; EN 302 217-2; EN 302 217-3
Broadband radio access networks (BRAN); 5 GHz high performance RLAN	EN 301 893
Global system for mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800	EN 301 511 V9.0.2:03; EN 301 511 (Spurious Emissions)
Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range	EN 301 091-1; EN 301 091-2; EN 301 091-3
Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Obstacle Detection Radars for Use on Manned Rotorcraft	EN 303 360
Short Range Devices; Transport and Traffic Telematics (TTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band	EN 302 264
IMT cellular networks; Part 1: Introduction and common requirements	EN 301 908-1 V13.1.1:19; EN 301 908-1
IMT cellular networks; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	EN 301 908-2 (Spurious Emissions)

Test Technology:**Test Method(s) ⁴:*****Radio Tests (Cont'd) (Excluding SAR where applicable)***

IMT cellular networks; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	EN 301 908-13 V13.1.1:19; EN 301 908-13 (Spurious Emissions)
IMT cellular networks; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS)	EN 301 908-14 V13.1.1:19; EN 301 908-14
IMT cellular networks; Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS)	EN 301 908-18 V13.1.1:19; EN 301 908-18
Broadband radio access networks (BRAN); 5.8 GHz fixed broadband data transmitting systems	EN 302 502
Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W	EN 302 208
Ultra-low power active medical implants (ULP-AMI) and peripherals (ULP-AMI-P) operating in the frequency range 402 MHz to 405 MHz	EN 301 839
Radio equipment in the frequency range 9 kHz to 315 kHz for Ultra Low Power Active Medical Implants (ULP-AMI) and accessories	EN 302 195
Ultra-low power medical data service systems operating in the frequency range 401 MHz to 402 MHz and 405 MHz to 406 MHz;	EN 302 537
Global System for Mobile communications (GSM); GSM Repeaters; Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	EN 303 609
Harmonized Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 11: CDMA Direct Spread (UTRA FDD) Repeaters	EN 301 908-11
IMT cellular networks; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters	EN 301 908-15
Product standard to demonstrate the compliances of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110 MHz to 40 GHz) – General Public	EN 50385
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

Test Technology:**Test Method(s) ⁴:*****Radio Tests (Cont'd) (Excluding SAR where applicable)***

Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	EN 62233
Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)	EN 62311:08; EN 62311; IEC 62311
Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	EN/IEC 62479
Product standard for human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications	EN 50364
Radiofrequency fields - Part 2: Principles and methods of measurement and computation - 3 kHz to 300 GHz	AS/NZS 2772.2
ICNIRP Guidelines on Limiting Exposure to Electromagnetic Fields are for the protection of humans exposed to radiofrequency electromagnetic fields (RF) in the range 100 kHz to 300 GHz.	ICNIRP (100kHz – 300 GHz):
Broadband data transmission systems operating in the 2,500 MHz to 2,690 MHz frequency band	EN 302 544-1; EN 302 544-2
Broadband Radio Access Networks (BRAN);	EN 302 567 V2.1.1:17;
60 GHz Multiple-Gigabit WAS/RLAN Systems	EN 302 567
Broadband Wireless Access Systems (BWA) in the 3 400 MHz to 3 800 MHz frequency band; Base Stations	EN 302 774
Short Range Devices (SRD); Ultra Low Power (ULP) wireless medical capsule endoscopy devices operating in the band 430 MHz to 440 MHz	EN 303 520 V1.2.1:19; EN 303 520
Wideband Data Transmission Systems (WDTS) for Fixed Network Radio Equipment operating in the 57 GHz to 71 GHz band;	EN 303 722 V1.2.1:22; EN 303 722
Short Range Devices (SRD); Ground- and Wall-Probing Radio determination (GPR/WPR) devices;	EN 302 066
Israel Ministry of Communication (MOC) wireless telegraph regulations	Israel Ministry of Communication (MOC) wireless telegraph regulations (certificates of conformity):2021

Test Technology:**Test Method(s) ⁴:*****Emissions***

Radiated and Conducted Emissions

EN 55011:09+A1:10; EN 55011:16+A1:17; EN 55011;
CISPR 11:09+A1:10; CISPR 11; AS/NZS CISPR 11:11;
AS CISPR 11;
CFR 47 Part 18 (using MP-5:1986);
ICES-001; ICES-003;
EN 55014-1:06+A1:09+A2:11; EN 55014-1:17+A11:20;
EN 55014-1;
CISPR 14-1:05+A1:08+A2:11; CISPR 14-1:16;
CISPR 14-1;
AS/NZS CISPR 14.1:13; AS CISPR 14.1:18;
AS CISPR 14.1;
EN 55015:06+A1:07+A2:09; EN 55015:13+A1:15 ;
EN IEC 55015;
CISPR 15:13+A1:15; CISPR 15;
AS/NZS CISPR 15:11; AS/NZS CISPR 15;
EN 55022; CISPR 22; AS/NZS CISPR 22;
CAN/CSA-CISPR 22;
EN 55032:12, EN 55032; CISPR 32:12; CISPR 32;
AS/NZS CISPR 32:13; AS/NZS CISPR 32;
CAN/CSA-CISPR 32; KS C 9832:19;
CFR 47 Part 15, Subpart B (using ANSI C63.4:2014);
VCCI V-3 (up to 6 GHz); VCCI-CISPR 32:2016;
SI 961 Part 11, 14.1, 15, 32
EN 55014-1:17+A11:20; EN 55014-1;
CISPR 14-1:16; CISPR 14-1;
AS/NZS CISPR 14.1:13; AS CISPR 14.1:18;
AS CISPR 14.1; SI 961 Part 14.1
EN 61000-3-2:14; EN IEC 61000-3-2;
IEC 61000-3-2:14; IEC 61000-3-2;
EN 61000-3-12; IEC 61000-3-12
EN 61000-3-3; IEC 61000-3-3;
EN 61000-3-11; IEC 61000-3-11
EN 55032:12; EN 55032; CISPR 32:12; CISPR 32;
KS C 9832; AS/NZS CISPR 32:13;
AS/NZS CISPR 32; VCCI-CISPR 32; SI 961 Part 32

Disturbances power

Harmonic current emissions

Voltage changes, voltage fluctuations and flicker

Electromagnetic compatibility of multimedia equipment - Emission requirements

Immunity

Electrostatic Discharge

Radiated, radio-frequency, electromagnetic field

Electrical fast transient/burst immunity test

Surge immunity test

EN 61000-4-2; IEC 61000-4-2;
IEEE Std. C62.38; IEEE Std. C37.90.3;
ISO 10605:08+A1:14; ISO 10605
EN 61000-4-3:06+A1:08+A2:10; EN IEC 61000-4-3;
IEC 61000-4-3:06+A1:07+A2:10; IEC 61000-4-3;
IEEE Std. C37.90.2
EN 61000-4-4; IEC 61000-4-4
EN 61000-4-5; IEC 61000-4-5;
IEEE Std. C62.41; IEEE Std. C62.41.1;
IEEE Std. C62.41.2; IEEE Std. C37.90.1-02;
IEEE Std. C37.90.1; MIL-STD-1686C

Test Technology:

Immunity to conducted disturbances, induced by radio-frequency fields

Power frequency magnetic field immunity test

Pulse magnetic field immunity test

Voltage dips, short interruptions and voltage variations immunity tests

Oscillatory waves immunity test

Immunity to conducted, common mode disturbances in the frequency range

0 Hz to 150 kHz

Voltage sag immunity

Power supply interface

Immunity requirements for components of fire, intruder and social alarm systems

Alarm systems - Intrusion and hold-up systems - Part 1: System requirements

Alarm systems - Intrusion systems – Part 2-2: Requirements for passive infrared detectors

Alarm systems - Intrusion systems – Part 2-4: Requirements for combined passive infrared and microwave detectors

Alarm systems - Intrusion systems – Part 2-6: Requirements for opening contacts (magnetic)

Alarm systems - Intrusion systems – Part 5-3: Requirements for interconnections equipment using radio frequency technique

Alarm systems - Intrusion systems - Part 6: Power supplies

Resistibility of telecommunication equipment

Radio disturbance and immunity

Test Method(s) ⁴:

EN 61000-4-6;

IEC 61000-4-6:13; IEC 61000-4-6

EN 61000-4-8; IEC 61000-4-8

EN 61000-4-9; IEC 61000-4-9

EN 61000-4-11:04+A1:17; EN IEC 61000-4-11;

IEC 61000-4-11:04+A1:17; IEC 61000-4-11

EN 61000-4-12; IEC 61000-4-12; IEEE Std. 1613;

IEEE 1613.1; EN/IEC 61850-3 (Clause 6.7)

EN 61000-4-16;

IEC 61000-4-16

SEMI F42-0999; SEMI F47-0200; SEMI F47-0706

EN 300 132-1:96; EN 300 132-1 V2.1.1:19;

EN 300 132-1;

EN 300 132-2 V2.5.1:16; EN 300 132-2 V2.6.1:19;

EN 300 132-2;

EN 300 132-3 V1.2.1:03; EN 300 132-3 V2.2.1:21;

EN 300 132-3;

EN 300 132-3-0; EN 300 132-3-1

EN 50130-4:95+A1:98+A2:03;

EN 50130-4

EN 50131-1

EN 50131-2-2:08; EN 50131-2-2:17;

EN 50131-2-2

EN 50131-2-4:08;

EN 50131-2-4

EN 50131-2-6;

CLC/TS 50131-2-6

EN 50131-5-3:05+A1:08;

EN 50131-5-3

EN 50131-6:08+A1:14;

EN 50131-6

ITU-T Rec. K.20:18; ITU-T Rec. K.20:19;

ITU-T Rec. K.20;

ITU-T Rec. K.21:18; ITU-T Rec. K.21:19 +A1:20;

ITU-T Rec. K.21;

ITU-T Rec. K.41;

ITU-T Rec. K.44:18; ITU-T Rec. K.44;

ITU-T Rec. K.45:18; ITU-T Rec. K.45:19+A1 :20;

ITU-T Rec. K.45

CISPR 16-1-1; CISPR 16-2-1; CISPR 16-2-3

Test Technology:***Generic and Product Specific EMC Standards***

Industrial environments

Residential, commercial and light-industrial environments

Information technology equipment

Household appliances, electric tools and similar apparatus

Industrial, scientific and medical equipment

Electrical lighting and similar equipment

Electromagnetic compatibility of multimedia equipment - Emission requirements

Electromagnetic compatibility of multimedia equipment – Immunity requirements

Equipment for measurement control and laboratory use

Adjustable speed electrical power drive systems

Test Method(s) ⁴:

EN 50081-2; EN 50082-2;
EN 61000-6-4:07+A1:11; EN IEC 61000-6-4;
IEC 61000-6-4;
EN 61000-6-2:05; EN IEC 61000-6-2; IEC 61000-6-2;
SI 961 Part 6.1; SI 961 Part 6.2;
KS C 9610-6-2:19;
KS C 9610-6-4:17; KS C 9610-6-4:22
EN 50082-1; EN 50081-1;
EN 61000-6-1:07; EN IEC 61000-6-1; IEC 61000-6-1;
EN 61000-6-3:07+A1:11; EN IEC 61000-6-3;
IEC 61000-6-3:06+A1:10; IEC 61000-6-3
EN 55022; CISPR 22; AS/NZS CISPR 22:06;
AS/NZS CISPR 22; CAN/CSA-CISPR 22;
ICES-003;
CFR 47 Part 15, Subpart B (using ANSI C63.4:2014);
VCCI V-3 (up to 6 GHz);
SI 961 Part 6.1; SI 961 Part 6.2;
SI 961 Part 14.1, 14.2, 24;
EN 55024; CISPR 24; AS/NZS CISPR 24:02;
AS/NZS CISPR 24
EN 55014-1; CISPR 14-1:16; CISPR 14-1;
AS/NZS CISPR 14.1:13; AS CISPR 14.1:18;
AS CISPR 14.1;
EN 55014-2:97+A1:01+A2:08; EN 55014-2:15;
EN 55014-2;
CISPR 14-2:15; CISPR 14-2; AS/NZS CISPR 14-2;
SI 961 Part 14.1, 14.2, 24
EN 55011:09+A1:10; CISPR 11:09+A1:10;
EN 55011; CISPR 11; AS/NZS CISPR 11:11;
AS CISPR 11; CFR 47 Part 18 (using MP-5:1986);
ICES-001; SI 961 Part 11
EN 55015:06+A1:07+A2:09; EN 55015:13+A1:15;
EN 55015;
CISPR 15:13+A1:15; CISPR 15;
AS/NZS CISPR 15:02; AS/NZS CISPR 15:06;
AS/NZS CISPR 15:11; AS/NZS CISPR 15;
EN 61547; IEC 61547; SI 961 Part 15
EN 55032:12; EN 55032; CISPR 32:12; CISPR 32;
KS C 9832; AS/NZS CISPR 32:13;
AS/NZS CISPR 32; VCCI-CISPR 32; SI 961 Part 32
EN 55035; CISPR 35;
KS C 9835:15; KS C 9835
EN 61326-1:13; EN IEC 61326-1;
IEC 61326-1:12; IEC 61326-1;
EN 61326-2-6:13; IEC 61326-2-6:12;
EN IEC 61326-2-6; IEC 61326-2-6
EN 61800-3:04+A1:12; EN IEC 61800-3;
IEC 61800-3:17; IEC 61800-3

Test Technology:**Test Method(s) ⁴:**

Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	EN 62479; IEC 62479
Railway applications - Electromagnetic compatibility - Rolling stock - Apparatus	EN 50121-3-2
Railway applications - Electronic equipment used on rolling stock	EN 50155:07+AC:12; EN 50155:17; EN 50155
Railway applications - Signaling and telecommunications apparatus	EN 50121-1
Railway applications - Electromagnetic compatibility - Part 4: Emissions and immunity of the telecommunications apparatus	EN 50121-4
Specification for semiconductor manufacturing facility electromagnetic compatibility	SEMI E33-94; SEMI E33-1012
Medical electrical equipment	EN 60601-1-2:01+A1:06; EN 60601-1-2:07; EN 60601-1-2:15; EN 60601-1-2; IEC 60601-1-2:01+A1:04; IEC 60601-1-2:07; IEC 60601-1-2:14; IEC 60601-1-2; ANSI/AAMI/IEC 60601-1-2; CAN/CSA C22.2 NO. 60601-1-2-08; CAN/CSA-C22.2 NO. 60601-1-2-08 (R2014); CAN/CSA-C22.2 NO. 60601-1-2; SI 60601 Part 1.2; YY 9706.102-2021; GB9706.237-2020 (EMC Section 202.6 only); IEC 60601-4-2
Cable networks for television signals, sound signals and interactive services - Part 2: Electromagnetic compatibility for equipment	EN 50083-2
Low voltage power supplies, D.C. output - Part 3: Electromagnetic compatibility (EMC)	EN IEC 61204-3; IEC 61204-3
Electrically powered wheelchairs, scooters and their chargers — Requirements and test methods	EN 12184:14; EN 12184
Telecommunication equipment	EN 300 386 V2.1.1:16; EN 300 386; 1TR9; GR-1089-CORE:06; GR-1089-CORE ISS. 5:09; GR-1089-CORE ISS. 6:11; ES 201 468 V1.6.1:16; ES 201 468
Electromagnetic compatibility standard for telecommunication equipment	TEC/SD/DD/EMC-221/05/
Uninterruptible power supply	EN 50091-2
Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen	EN 50270
Maritime navigation and radio communication equipment and systems – General requirements	EN 60945; IEC 60945
Methods of testing and required test results	
Communication networks and systems in substations Part 3: General requirements	IEC 61850-3; EN 61850-3

Test Technology:**Test Method(s) ⁴:**

IEEE Standard Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations	IEEE Std. 1613; IEEE 1613.1
Power line communication apparatus and systems used in low-voltage installations in the frequency range 1,6 MHz to 30 MHz - Part 2-1: Residential, commercial and industrial environment - Immunity requirements	EN 50412-2-1
Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use	EN 50561-1
Radio equipment and services	EN 301 489-1
Short-range devices (SRD) operating on frequencies between 9 kHz and 246 GHz	EN 301 489-3:V2.1.1:19; EN 301 489-3
Fixed radio links and ancillary equipment and services	EN 301 489-4
Private land mobile radio (PMR) and ancillary equipment (speech and non-speech)	EN 301 489-5
Digital enhanced cordless telecommunications (DECT) equipment	EN 301 489-6
Mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	EN 301 489-7
GSM base stations	EN 301 489-8
Wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices	EN 301 489-9
Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS)	EN 301 489-12 V3.1.1:19; EN 301 489-12
Commercially available amateur radio equipment	EN 301 489-15
Analogue cellular radio communications equipment, mobile and portable	EN 301 489-16
2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment	EN 301 489-17 V3.2.4:20; EN 301 489-17
Terrestrial trunked radio (TETRA) equipment	EN 301 489-18
Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band providing positioning, navigation, and timing data	EN 301 489-19
IMT-2000 CDMA, Direct Spread (UTRA and E-UTRA) Base Station (BS) radio, repeater and ancillary equipment	EN 301 489-23
IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	EN 301 489-24

Test Technology:**Test Method(s) ⁴:**

Equipment in the 9 kHz to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P)	EN 301 489-31
Specific conditions for Ultra-Wideband (UWB) devices	EN 301 489-33
Specific conditions for External Power Supply (EPS) for mobile phones	EN 301 489-34
Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands	EN 301 489-35
Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment	EN 301 489-50
Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices	EN 301 489-51
Specific conditions for Cellular Communication User Equipment (UE) Radio and Ancillary Equipment	EN 301 489-52
Specific conditions for terrestrial sound broadcasting and digital TV broadcasting service transmitters and associated ancillary equipment	EN 301 489-53
<i>EMC Tests - Automotive/Vehicle</i>	
Electric vehicle wireless power transfer (WPT) systems	IEC 61980-1:15; EN IEC 61980-1; IEC 61980-1; EN IEC 61980-3; IEC 61980-3
Automotive/vehicle, vehicles, motorboats and spark-ignited engine-driven devices	EN 55012; CISPR 12; CAN/CSA CISPR 12; AS/NZS CISPR 12
Limits and methods of measurement of radio disturbance characteristics for the protection of receivers used on board vehicle	EN 55025:17; EN 55025; CISPR 25:16; CISPR 25; AS/NZS CISPR 25
Aftermarket electronic equipment in vehicle	EN 50498
Agricultural and forestry machinery - Electromagnetic compatibility - Test methods and acceptance criteria	EN ISO 14982:2009
Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility	Regulation No. 10
Road vehicles	ISO 7637-1:02+A1:08; ISO 7637-1; ISO 7637-2:04+A1:08; ISO 7637-2; ISO 7637-3:95; ISO 7637-3:07; ISO 7637-3; ISO 11452-1; ISO 11452-2; ISO 11452-4:11; ISO 11452-4; ISO 11452-5; ISO 11452-8; ISO 11452-9:12; ISO 11452-9; ISO 11452-10; ISO 10605:08+A1:14; ISO 10605; GMW3097:15; GMW3097:19; GMW3097

Test Technology:

Vehicles, boats (up to 15 m), and machines
(*except aircraft*), vehicle components,
receivers used on board vehicles

Motor vehicles
Electromagnetic compatibility (EMC)
(BMW Group Standard)

Other EMC Tests

Military and airborne equipment

Test Method(s) ⁴:

SAE J1113-1:18; SAE J1113-1;
SAE J1113-2; SAE J1113-4:14; SAE J1113-4;
SAE J1113-11:18; SAE J1113-11;
SAE J1113-12:06; SAE J1113-12:17; SAE J1113-12;
SAE J1113-13; SAE J1113-21; SAE J1113-22;
SAE J1113-26:14; SAE J1113-26; SAE J1113-41;
SAE J1113-42

GS 95002-2;
GS 95002-5

MIL-STD-461 A/B/C: RE01, RE02, CE01, CE03,
CE06, CE07, RS01, RS02, RS03, RS06, CS01, CS02,
CS03, CS04, CS05, CS06, CS07, CS09, CS10, CS11,
CS12, CS13;
MIL-STD-461 D/E/F/G: RE101, RE102, RE103, CE101,
CE102, CE106, CS101, CS103,
CS104, CS105, CS106, CS109, CS114, CS115,
CS116, CS 118, RS101, RS103;
MIL-STD-462; MIL-STD-462D;
MIL-STD-464C: bonding, ESD;
MIL-STD-704 A/B/C/D/E/F/F-CHG-1;
MIL-STD-1275 A/B/C/D/E; MIL-STD-285;
RTCA/DO-160D:97+change 1:00+change2:01+
change 3:02;
RTCA/DO-160E:04; RTCA/DO-160F:07;
RTCA DO-160G:10;
RTCA/DO-160 G Change 1, December 16, 2014
STANAG 4236:07; STANAG 1008;
Defense Standard 59-41 Part 2:2002, Part 3:2003,
Part 4:1996, Part 5:2003, Part 6:1994;
Defense Standard 59-411 Part 3:2008, Part 3:2014,
Part 3:2019;
Defense Standard 61-5 Part 6, Issue 6:2009;
Defense Standard 61-5 Part 6;
MIL-STD-1399-300B

Telecommunication Tests

Specification of terminal equipment
interconnected to the analog public telephone
network requirements for type approval
Analogue interworking and non-interference
requirements for customer equipment for
connection to the public switched telephone
network

Specification PTC 200 requirements for
analogue telecommunications equipment

Requirement for private voice networks
connected to the PSTN/ISDN (New Zealand)

Israeli MoC Spec. 23/96

AS/CA S002-2011 (Amendment 2012 No 1)

PTC 200:2019

PTC 220:2019

Test Technology:

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
Part 2: Basic transmission and protection of the network from harm
Part 3: Basic interworking with the public telephone networks
Speech and multimedia transmission quality (STQ); Requirements and tests methods for terminal equipment incorporating a handset when connected to the analogue interface of the PSTN
Terminal equipment (TE); Attachment requirements for Pan-European approval for connection to the analogue public switched 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
A guide to the application of TBR 21
Technical specification for terminal equipment connected to the public switched telephone network (PSTN) (Singapore)
Network connection specification for connection of customer premises equipment (CPE) to direct exchange lines (DEL) of the public switched telephone network (PSTN) in Hong Kong
Technical specifications for terminal equipment for connection to public switched telephone network in Taiwan
Standards specification for telecommunication-line terminal equipment for connection to the public switched telecommunication network (South Africa)
Connection of Terminal Equipment to the Telephone Network
Hearing aid compatibility: Magnetic field intensity criteria for telephone compatibility with hearing aids: technical requirements.
Hearing aid compatibility volume control: technical standards
Registered terminal equipment with automatic dialing capability

Test Method(s) ⁴:

ETSI ES 203 021-1:05;
ETSI ES 203 021-2:06;

ETSI ES 203 021-3:06

ETSI ES 203 038 V1.2.1 (2013-05)

TBR21:98 (Historical)

ETSI EG 201 121 V 1.1.3:00
IMDA TS PSTN Issue 1, 1 October 2016

HKCA 2011:10

PSTN01 Issue Date: July 23, 2020

DPT-TE-001, Issue 5 (November 2006)

47 CFR Part 68
FCC 68.316 HAC

FCC 68.317 HAC volume control

FCC 68.318 automatic dialing

Test Technology:

Telecommunications telephone terminal equipment technical requirements for connection of terminal equipment to the telephone network

Requirements for terminal equipment (TE) and related access arrangements intended for direct connection to analogue wireline facilities

Requirements for terminal equipment intended for connection to 1.544 Mbps (DS-1) digital facilities

Requirements and test methods for magnetic output from handset telephones for hearing aid coupling and for receive volume control

Requirements for ISDN terminal equipment

Requirements and tests methods for digital subscriber line (xDSL) terminal equipment

Requirements for customer access equipment for connection to telecommunications network -

Part 1: General

Part 2: Analogue and TDM based technologies

Part 3: Packet and cell-based technology

Voice frequency performance requirements for customer equipment

General requirements for customer equipment connected to hierarchical digital interfaces

Requirements for ISDN Primary Rate Access Interface. Australian Standard

Requirements for customer equipment for use with the standard telephone service — Features for special needs of persons with disabilities

Requirements for DSL customer equipment for connection to the public switched telephone network, Part 1: General

Requirements for DSL customer equipment for connection to the public switched telephone network, Part 2: Modems for use in connection with all DSL services

Requirements for customer equipment for connection to a metallic local loop interface of a telecommunications network, Part 1: General

Requirements for customer equipment for connection to a metallic local loop interface of a telecommunications network – Broadband

Test Method(s) ⁴:

ANSI/TIA-968-B:09;

ANSI/TIA-968-B1:12;

ANSI/TIA-968-B2:15; ANSI/TIA-968-B3:16

CS-03 Part I, Issue 9, Amendment 5:2016

CS-03 Part II, Issue 9, A1 Sept. 2012

CS-03 Part V, Issue 9, Amendment 3, Aug. 2021

CS-03, Part VI, Issue 9, Amendment 1, Sept. 2012

CS-03, Part VIII, Issue 9, Amendment 5, May 2016

AS/CA S003.1:10;

AS/CA S003.2:10;

AS/CA S003.3:10

AS/ACIF S004:13

AS/ACIF S016:01

AS/ACIF S038:2001

AS/ACIF S040:01

AS/ACIF S041.1:15

AS/ACIF S041.2:15

AS/ACIF S043.1:15

AS/ACIF S043.2:16+A1:17

Test Technology:**Test Method(s) ⁴:**

Terminal equipment (TE); Attachment requirements for Pan-European approval for connection to the analogue public switched telephone networks (PSTNs) of TE supporting the voice telephony service in which network addressing, if provided, is by means of dual tone multi frequency (DTMF) signaling

ETSI EN 301 437 V1.1.1:99

Integrated services digital network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access

TBR 004 edition 1:95+A1:97

Digital enhanced cordless telecommunication (DECT); General terminal attachment requirements; Telephony applications

TBR 10:1999

Business telecommunications (BT); Open network provision (ONP) technical requirements; 2048 kbit/s digital unstructured leased line (D2048U); Attachment requirements for terminal equipment interface

TBR 012 edition 1:93+A1:96

Business telecommunications (BTC); 2048 kbit/s digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface

TBR 013 Edition 1:96

Business telecommunications (BTC); Ordinary and special quality voice bandwidth 2-wire analogue leased lines (A2O and A2S); Attachment requirements for terminal equipment interface

TBR 15:97

Business telecommunications (BTC); Ordinary and special quality voice bandwidth 4-wire analogue leased lines (A4O and A4S); Attachment requirements for terminal equipment interface

TBR 17:97

Public switched telephone network (PSTN); Attachment requirements for a terminal equipment incorporating an analogue handset function capable of supporting the justified case service when connected to the analogue interface of the PSTN in Europe

TBR 38 edition 1:98, Historical

Transmission and multiplexing (TM); Access transmission systems on metallic access cables; Very high speed digital subscriber line (VDSL); Part 1: Functional requirements

ETSI TS 101 270-1 V1.4.1:05

Telecommunications and internet protocol harmonization over networks (TIPHON) technology compliance specification; Draft IETF SIP RFC 3261; Part 2: Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) performance specification

ETSI TS 102 027 V2.1.1:03

Test Technology:

Transmission and multiplexing (TM); Access transmission system on metallic access cables; Asymmetric digital subscriber line (ADSL) - European specific requirements

Access and terminals (AT); Short message service (SMS) for PSTN/ISDN; Short message communication between a fixed network short message terminal equipment and a short message service centre

Access and Terminals (AT); Public Switched Telephone Network (PSTN); Harmonized specification of physical and electrical characteristics at a 2-wire analogue presented Network Termination Point (NTP)

Technical specification for asymmetric digital subscriber line modems

Blue Book and Green Book (Analog and Digital)

Network connection specification for connection of customer premises equipment (CPE) to the public telecommunications networks (PTN) in Hong Kong over digital trunk at 1544 kbit/s at using DTMF signaling

Access and Terminals (AT); POTS requirements applicable to ADSL modems when connected to an analogue presented PSTN line

Access and terminal (AT); Analogue access to the public switched telephone network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part 1: On-hook data transmission

Asymmetric digital subscriber line terminal equipment and POTS splitter technical specifications (Taiwan)

Interface to public networks for terminal equipment (Mexico)

AGREEMENT that the Full Federal Institute of Telecommunications issued the Technical Arrangement IFT-005-2014: digital public networks (digital interface at 2048 kbit/s) interface (Mexico)

Telecommunication industry standard of PRC (China)

The specifications of automatic telephone set (China)

Test Method(s) ⁴:

ETSI TS 101 388 V1.4.1:07

ETSI ES 201 912:02

ETSI ES 201 970 V1.1.1:02

IMDA TS ADSL (Issue 1, 2016)

JATE

HKCA 2017:10

ETSI ES 202 913 V1.2.2 (2006-01)

ETSI EN 300 659-1 V1.3.1 (2001-01) (CID)

ADSL01 (July 23, 2020)

IFT-004-2014

IFT-005-2014

YDT 514-1:98

GB/T 15279-2002

Test Technology:**Test Method(s) ⁴:**

Digital terminal equipment - General
Physical/electrical characteristics of hierarchical
digital interfaces

ITU-T G.703:16

Digital networks - The control of jitter and
wander within digital networks which are based
on the
2048 kbit/s hierarchy

ITU-T G.823:00

Transmission characteristics for cordless and
mobile digital terminals

ITU-T P 313:99

Transmission characteristics and speech quality
parameters of hands-free terminals

ITU-T P 340:00

Telecommunications telephone terminal
equipment transmission requirements for
narrowband digital telephones

ANSI/TIA-810-B:06

Telecommunications telephone terminal
equipment handset acoustic performance
requirements for analog telephones

ANSI/TIA-470.110-C:07;
TIA-470.110:18

Telecommunications telephone terminal
equipment hands-free acoustic performance
requirements working meeting document

ANSI/TIA-470.120-C (11.2004)

Telecommunications Communications Products
Transmission Requirements for Digital Interface
Communications Devices with Handsets

ANSI/TIA-920.110-B, 2015

Telecommunications Telephone Terminal

TIA-920.120-A, 2012

Equipment Transmission Requirements for
Wideband Digital Wireline Telephones with
Speakerphone

Telephone Terminal Equipment Receive
Volume Control Requirements for Digital and
Analog Wireline Handset Terminals

ANSI/TIA-4965 (Receive VC 2012)

Approved: October 19, 2012

Series G: Transmission systems and media,
digital systems and networks

ITU-T G.991.2 (09/2005); ITU-T G.992.1 (03/2003);
ITU-T G.992.3 (10/2012) Cor. 3 (08/2013);
ITU-T G.992.5 (01/2009) Cor. 1 (11/2010);
ITU-T G.993.1 (06-2004); ITU-T G.993.2 (02/2019)
CNC-St2-44.01 V02.1.1:2003

Technical requirements for telephone terminal
equipment

NET 001/92 (Analog TE, Brazil, Dir. 322)

Minimum requirements for certification of
terminal equipment with analog interfacing
form the public telephone network

User interface-network, and public switched
telephone service terminal regulation

Attachment to Resolution No. 392, Feb. 17, 2005

Electro-acoustic recommended minimum
performance specification for cdma2000 mobile
stations

3GPP2 C.S0056-0 v1.0:05

Digital cellular telecommunications system
(Phase 2+): Transmission planning aspects of
the speech service in the GSM public land
mobile network (PLMN) system (GSM 03.50,
version 8.1.1, release 1999)

ETSI EN 300 903 V8.1.1:00

Test Technology:**Test Method(s) ⁴:**

Universal mobile telecommunications system (UMTS); LTE; Terminal acoustic characteristics for telephony; Requirements (3GPP TS 26.131, version 9.3.0, release 9)

ETSI TS 126 131 V9.3.0 (2010-04)

Digital cellular telecommunications system (Phase 2+); Mobile station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1, version 8.1.0, release 8)

ETSI TS 151 010-1 V8.1.0 (2009-05)
(Section 30 only, *excluding* 30.19)

Electro-acoustic recommended minimum performance specification for cdma2000 mobile station

TIA-1042:05

Series P: Telephone transmission quality, Telephone installation, Local line networks. Transmission characteristics for telephone band (300-3,400 Hz) digital loud-speaking and hands-free telephony terminals

ITU-T P.340:00

Series T: Terminals for telematic services; Procedures for document facsimile transmission in the general switched telephone network Facsimile - Group 3 protocols procedures for real-time Group 3 facsimile communication over IP networks

ITU-T T.30 (09/2005);
ITU-T T.38 (2015)

Telephony for hearing impaired people; Inductive coupling of telephone earphones to hearing aids.

ETSI ETS 300 381 (1994-12)

Series P: Coupling hearing aids to telephone sets

ITU-T P.370 (08/1996)

Series P: Telephone transmission quality, Telephone installations, Local line networks; Methods for objective and subjective assessment of quality perceptual evaluation of speech quality (PESQ): An objective method for end-to-end speech quality assessment of narrow-band telephone networks and speech codecs mapping function for transforming P.862 raw result scores to MOS-LQO

ITU-T P.862 (02/2001), P.862.1 (11/2003)

SERIES P: TERMINALS AND SUBJECTIVE AND OBJECTIVE ASSESSMENT METHODS Methods for objective and subjective assessment of speech quality

ITU-T P.863 (01/2011) (POLQA-NB and POLQA-WB)

Series Q: Switching and Signaling; Transmission characteristics at 2-wire analogue interfaces of digital exchanges

ITU-T Q.552
(2001, 2-wire analog interface of digital exchange)

Technical Requirements for Telecommunication Terminal Equipment. (Korea)

MIC Notification No. 2004-15

Test Technology:**Test Method(s) ⁴:**

NTC Philippines Type Approval Specification For Corded Telephone, Corded Phone with Caller ID and Corded Phone with Short Message Service (SMS) For Connection to Public Switched Telephone Network.

(Philippines)

NTC Philippines Type Approval Specification For Facsimile and Answering Machines For Connection to Public Switched Telephone Network. (Philippines)

Technical specification for terminal equipment connecting to the public switched telephone network (pstn). (Malaysia)

Group 3 Fax Machine/Card Interface Requirements No. IR/FAX-01/04.SEP.2002. (India)

Regulation For Interface User – Network and Terminals Of Switched Fixed Telephone Service. (Brazil)

Telecom ISDN User network interface Layer 3. (New Zealand)

Functional Requirements for Facsimile Transmitters and Receivers Intended for Connection to the Telephone Network. (South Africa)

ISDN Terminal Equipment Technical Specifications. (Taiwan)

Requirements of subscriber's end equipment (SEE) connected to 2-wire cable plant. (India)
Indonesian National Standard (SNI) of analog telephone.

Telecommunications Telephone Terminal Equipment Handset Magnetic Measurement Procedure and Performance Requirements

Speech and multimedia Transmission Quality (STQ); Transmission requirements for narrowband VoIP terminals (handset and headset) from a QoS perspective as perceived by the user

Speech and multimedia Transmission Quality (STQ); Transmission requirements for narrowband VoIP loud-speaking and handsfree terminals from a QoS perspective as perceived by the user

Speech and multimedia Transmission Quality (STQ); Transmission requirements for wideband VoIP terminals (handset and headset) from a QoS perspective as perceived by the user

NTC TES 1:2004

NTC TES 4:2004

SKMM FTS PSTN, Rev. 1.01:2007

IR/FAX-01/04:2002

Resolution No.473:2007

TNA 134:1997

TE-006:1996

IS6100:2007; IS6100:2020

S/INT-2 W/02: May 2001

SNI 04-7042-2004

ANSI/TIA-1083-A (HAC, 2010);
TIA-1083

ETSI ES 202 737 V1.5.1 (2017-01)

ETSI ES 202 738 V1.6.1 (2017-02)

ETSI ES 202 739 V1.5.1 (2017-01)

Test Technology:

Speech and multimedia Transmission Quality (STQ); Transmission requirements for wideband VoIP loud-speaking and handsfree terminals from a QoS perspective as perceived by the user

Sound system equipment:
Headphones and earphones associated with personal music players.
Maximum sound pressure level measurement methodology

IEEE Standard Methods for Measuring Transmission Performance of Analog and Digital Telephone Sets, Handsets, and Headsets.

Product Safety Tests

Information technology equipment
(*Excluding hot flaming oil test, abrasion resistance test, cathode ray tube test, and ionizing radiation test methods*)

Audio, video, and similar electronic apparatus
(*excluding hot flaming oil test, and ionizing radiation*)

Audio/video, information and communication technology equipment

Test Method(s) ⁴:

ETSI ES 202 740 V1.6.1 (2017-02)

BS EN 50332-1:2013;
BS EN 50332-2:2013

IEEE Std. 269-2010 cl.7.13 Max SPL

EN 60950:00; IEC 60950:99;
UL 60950 3rd Edition;
CAN/CSA-C22.2, No. 60950-03;
AS/NZS 60950:00+A1:03;
SI 1121:98;
EN 60950-1:01+A11:04; IEC 60950-1:01;
EN 60950-1:06+A11:09+A1:10+A12:11+A2:13;
IEC 60950-1:05+A1:09+A2:13;
UL 60950-1 2nd edition;
CAN/CSA-C22.2 No. 60950-1-07 (R2016);
AS/NZS 60950.1:03+A1:06+A2:08+A3:08;
AS/NZS 60950.1:11+A1:12; AS/NZS 60950.1:15;
SI 60950 Part 1:03; SI 60950 Part 1;
EN 60950-21:03; IEC 60950-21:02;
UL 60950-21 1st edition; SI 60950 Part 21;
EN 60950-22:06+A11:08; EN 60950-22:17;
IEC 60950-22:05; IEC 60950-22:16;
UL 60950-22 1st and 2nd edition; SI 60950 Part 22;
CAN/CSA C22.2 No. 60950-22-07 (R2016);
CAN/CSA-C22.2 No. 60950-22:17;
UL 50 12th edition
EN 60065:02+A1:06+A11:08+A2:10+A12:11;
IEC 60065:01+A1:05+A2:10; SI 60065:09;
SI 60065:12+A1:15; UL 60065 7th edition;
AS/NZS 60065:12+A1:15
EN 62368-1:14+A11:17; IEC 62368-1:14;
EN 62368-1; IEC 62368-1:18;
IEC 62368-1; SI 62368-1;
UL 62368-1 2nd, 3rd Edition;
AS/NZS 62368.1:18; AS/NZS 62368.1;
CAN/CSA-C22.2 NO. 62368-1-14;
CSA C22.2 No. 62368-1:19;
EN/IEC 62368-3;

Test Technology:

Household and similar electrical appliances
(excluding software evaluation, and
oxygen bomb test)

Household and similar electrical appliances

Test Method(s) ⁴:

EN 60335-1:02+A1:04+A11:04+A12:06+
A2:06+A13:08+A14:10+A15:11;
IEC 60335-1: 01+A1:04+A2:06;
AS/NZS 60335.1:02+A1:04+A2:07+A3:07;
UL 60335-1 4th edition; UL 60335-1: 5th edition;
CAN/CSA-C22.2 No. 60335-1-11
EN 60335-1:12
+A11:14+A13:17+A14:19+A1:19+A2:19+A15:21;
IEC 60335-1:10+A1:13+A2:16;
AS/NZS 60335.1:20+A1:21;
CAN/CSA-C22.2 NO. 60335-1:16;
UL 60335-1: 6th edition;
EN 60335-1; IEC 60335-1;
AS/NZS 60335.1;
EN 50106:08; EN 62301:05; SI 62301;
IEC 62301:05; IEC 62301:11;
SI 900 Part 1:05; SI 900 Part 1;
SI 900 Part 2.2, 2.3, 2.5, 2.6, 2.7, 2.8, 2.9, 2.11, 2.12,
2.13, 2.14, 2.15, 2.17, 2.23, 2.24, 2.25, 2.29, 2.30,
2.35, 2.45, 2.52, 2.60, 2.74, 2.80, 2.91, 2.97;
EN 60335-2-2:03+A1:04+A2:06;
IEC 60335-2-2:02+A1:04+A2:06;
IEC 60335-2-3:12+A1:15;
EN 60335-2-5:15+A1:20; IEC 60335 2 5:12+A1:18;
EN 60335-2-6:03+A1:05+A2:08+A11:10;
IEC 60335-2-6:02+A1:04+A2:08;
EN 60335-2-7:10+A1:13;
IEC 60335-2-7:08+A1:11+A2:16;
IEC 60335-2-9:08+A1:12+A2:16;
EN 60335-2-11:10+A1:15;
IEC 60335-2-11:08+A1:12+A2:15;
IEC 60335-2-12:02+A1:08+A2:17;
IEC 60335-2-13:09+A1:16;
EN 60335-2-14:06+A1:08+A11:12+A12:16;
IEC 60335-2-14:06+A1:08+A2:12;
IEC 60335-2-15:12+A1:16;
EN 60335-2-17:02+A1:06;
IEC 60335-2-17:02+A1:06;
EN 60335-2-23:03+A1:08+A11:10+A2:15;
IEC 60335-2-23:03+A1:08+A2:12;
CAN/CSA-C22.2 No. 60335-2-23:15;
IEC 60335-2-23:16+A1:19;
EN 60335-2-23:23+A1:23;
CSA C22.2 NO. 60335-2-23:21;
AS/NZS 60335.2.23:17+A1:20 +A2:21;
IEC 60335-2-24:10+A1:12+A2:17;
EN 60335-2-24:10+A1:19+A2:19;
IEC 62552:07; SI 62552; SI 62552 Parts 1, 2, 3;
IEC 62552-1:15; IEC 62552-2:15; IEC 62552-3:15;
EN 60335-2-25:12+A1:15+A2:16;
IEC 60335-2-25:10+A1:14+A2:15;



Test Technology:

Household and similar electrical appliances
(Cont.)

Domestic cooking appliances, etc.

LPG fired domestic heating appliances

Aerosol Dispensers

Materials

Automatic equipment

Electric tools

Test Method(s) ⁴:

IEC 60335-2-29:16;
IEC 60335-2-30:09+A1:16;
IEC 60335-2-35:12+A1:16;
EN 60335-2-36:02+A1:04+A2:08;
IEC 60335-2-36:02+A1:04+A2:08;
EN 60335-2-41:03+A1:04+A2:10;
IEC 60335-2-41:02+A1:04+A2:09;
AS/NZS 60335.2.41:04+A1:10;
IEC 60335-2-41:12;
EN 60335-2-41:21+A11:21;
AS/NZS 60335.2.41:13+A1:18;
CAN/CSA-E60335-2-41:13;
IEC 60335-2-45:02+A1:08+A2:11;
IEC 60335-2-52:02+A1:08+A2:17;
EN 60335-2-60:03+A1:05;
IEC 60335-2-60:02+A1:04; IEC 60335-2-60:17;
EN 60335-2-74:03+A1:06+A2:09;
IEC 60335-2-74:02+A1:06+A2:09;
EN 60335-2-75:04+A1:05+A11:06+A2:08+A12:10;
IEC 60335-2-75:02+A1:04+A2:08;
IEC 60335-2-80:15
IEC 60335-2-91:08;
EN 60335-2-96:02+A1:04;
IEC 60335-2-96:02+A1:03;
IEC 60335-2-97:16+A1:19;
EN 60335-2-109:10;
IEC 60335-2-109:10
EN 30-1-1:08; EN 30-1-3:03+A1:06;
EN 30-2-1:98+A1:03+A2:06;
SI 907 Part 1, 3, 4;
SI 1049:1997
EN 521:06; EN 14543:05+A1:07; EN 484:97;
EN 498:97; SI 968 Part 1, 2, 3, 4
EN 1266:02+A1:05; EN 1319:98+A2:99+A1:01;
SI 995 Part 5, 6
Council Directive 75/324/EEC: 20 May 1975;
SI 742; SI2302 Part 1
European directive regulation EC 1935/2004;
SI 1003 Part 1.1, 1.2, 3.1, 3.2
ISO 6486-1; ISO 6486-2; ISO 7086-1; ISO 7086-2
UL 1740 4th Ed.; UL 3100 1st Ed.;
UL 508A 3rd Ed.
IEC 62841-1:14;
SI 62841 Part 1;
IEC 62841-2-2:14; SI 62841 Part 2.2;
IEC 62841-2-4:14; SI 62841 Part 2.4;
IEC 62841-2-5:14; SI 62841 Part 2.5;
IEC 62841-2-11:15; SI 62841 Part 2.11;
IEC 62841-2-14:15;
SI 62841 Part 2.14;
IEC 60745-1:06;

Test Technology:**Test Method(s) ⁴:**Electric tools (*Cont*)Electrical equipment for measurement, control,
and laboratory use
(*Excluding hot flaming oil test, and ionizing
radiation test methods*)

In-Vitro diagnostic (IVD) medical equipment

Automatic electrical controls for household and
similar use

Laser products

Sealing, wrapping, and marking equipment
power units

Swimming pool pumps, filters, and chlorinators

Battery Chargers

Power units other than Class 2

Burglar-alarm systems, household burglar-alarm
system units

Alarm units and systems

Intrusion-detection units

Antitheft alarms and devices

SI 60745 Part 1;
IEC 60745-2-3:06+A1:10+A2:12;
SI 60745 Part 2.3
EN 61010-1:01; IEC 61010-1:01+Corr1:02+Corr2:03;
UL 61010-1 2nd Edition; UL 61010-1 3rd Edition;
EN 61010-1; IEC 61010-1;
UL 61010A-1 1st edition; UL 61010B-1 1st edition;
UL 61010C-1; CAN/CSA-C22.2 No. 61010-1-04;
CAN/CSA-C22.2 No. 61010-1-12 + U1:15 + U2:16 +
AMD 1:18;
AS 61010.1:03; SI 61010-Part 1:02; SI 61010 Part 1;
UL 61010-031: 1st edition;
UL 61010A-2-041 1st edition;
EN 61010-2-010:03; IEC 61010-2-010:03;
EN 61010-2-010:20; IEC 61010-2-010:19;
EN 61010-2-030:10; IEC 61010-2-030:10
EN 61010-2-040:05; IEC 61010-2-040:05;
EN 61010-2-101:17; EN 61010-2-101:22+A11:22;
IEC 61010-2-101:15;
IEC 61010-2-101:18;
UL 61010-2-101 3rd edition;
CAN/CSA C22.2 61010-2-101
EN 60730-1:00+A1:04+A12:03+A13:04+
A14:05+A15:07;
UL 60730-1A:02; EN 60730-2-8:95+A1:97+A2:97;
EN 60730-2-9+A1:96+A11:97+A2:97
EN 60825-1:94+A1:02+A2:01;
IEC 60825-1:93+A1:97+A2:01;
EN 60825-1:07; IEC 60825-1:07;
EN 60825-1:14+A11:21; IEC 60825-1:14;
EN 60825-2:04+A1:07+A2:10;
IEC 60825-2:04+A1:06+A2:10; 21 CFR 1040
UL 963 2nd edition

UL 1081 6th and 7th edition (*excluding clauses 38 and 44*)
UL1564 4th edition
UL 1012 7th edition

UL 365 4th edition; UL 603 5th edition;
UL 609 11th edition; UL 1023 6th edition;
UL 1076 5th edition; UL 1610 3rd edition;
UL 1637 4th edition
UL 636 10th edition; UL 985 5th edition;
UL 1635 3rd edition
UL 639 8th edition
UL 1037 5th edition

Test Technology:

Luminaires

Needle-based injection systems for medical use
Medical electrical equipment
(Excluding cathode ray tubes, pressure vessels, natural latex rubber aging, material group classification, spark ignition, ignition of flammable anesthetic mixtures, flexibility, adherence, X-radiation, sterilization, bio-compatibility testing)

Test Method(s) ⁴:

SI 20 Part 1;
SI 20 Part 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.10, 2.11, 2.18, 2.20, 2.22;
EN 60598-1:04+A1:06; EN 60598-1:08; EN 60598-1;
IEC 60598-1:03+A1:06; IEC 60598-1:08; IEC 60598-1;
EN 60598-2-1:89; IEC 60598-2-1:79+A1:87;
EN 60598-2-2:12; IEC 60598-2-2:11;
EN 60598-2-3:03+A1:11; IEC 60598-2-3:03+A1:11;
EN 60598-2-4:97; IEC 60598-2-4:97;
EN 60598-2-5:15; IEC 60598-2-5:15;
EN 60598-2-6:94+A1:97; IEC 60598-2-6:94+A1:96;
EN 60598-2-7:89+A2:96+A13:97;
IEC 60598-2-7:82+A1:87+A2:94;
EN 60598-2-8:13; IEC 60598-2-8:13;
EN 60598-2-10:03; IEC 60598-2-10:03;
EN 60598-2-11:13; IEC 60598-2-11:13;
EN 60598-2-18:94+A1:12; IEC 60598-2-18:93+A1:11;
EN 60598-2-20:15; IEC 60598-2-20:14;
EN 60598-2-22: 98+A1:03+A2:08;
IEC 60598-2-22:97+A1:02+A2:08;
EN 62560:11+A1:15+A11:19; IEC 62560:11+A1:15;
SI 62560; IEC 62778:14; IEC 62471:06; EN 62471:08;
SI 62471; IEC 61347-1:15+A1:17; SI 61347 Part 1;
IEC 61347-2-1:00+A1:05+A2:13; SI 61347 Part 2.1;
IEC 61347-2-13:14+A1:16; SI 61347 Part 2.13
ISO 11608-1:12; ISO 11608-1;
ISO 11608-4:06; ISO 11608-4
EN 60601-1:90+A1:93+A11:93+A12:93+A2:95+A13:96;
IEC 60601-1:88+A1:91+A2:95;
UL 60601-1 1st edition;
CAN/CSA C22.2 No. 601.1-M90;
EN 60601-1:06+A11:11+A1:13+A2:21;
IEC 60601-1:05+A1:12+A2:20;
ANSI/AAMI ES60601-1:05+A1:12+C1:09+A2:10;
ANSI/AAMI ES60601-1:05+A1:12+A2:21;
ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012, C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl. AMD2:2021] – (Except clauses: 8.8.4.2, 8.9.1.7, 9.5.2, 9.7.5, 10.1, 11.2.2.1, 11.2.2.2, 11.6.7, Annex G, Annex L.3.2);
CAN/CSA C22.2 No. 60601-1-08;
CAN/CSA-C22.2 No. 60601-1:14;
CAN/CSA-C22.2 No. 60601-1:14+A2:22;
SI 1011, SI 60601 Part 1, SI 60601 Part 2.2, 2.3, 2.5;
GB 9706.1-2020;
EN 60601-1-1:01; IEC 60601-1-1:00;
EN 60601-1-3:94; EN 60601-1-3:08+A1:13;
IEC 60601-1-3:94; IEC 60601-1-3:08+A1:13;
EN 60601-1-4:96+A1:99; IEC 60601-1-4:96+A1:99;
EN 60601-1-6:10+A1:15+A2:21;



Test Technology:

Medical electrical equipment (Cont.)
(Excluding cathode ray tubes, pressure vessels,
natural latex rubber aging, material group
classification, spark ignition,
ignition of flammable anesthetic mixtures,
flexibility, adherence, X-radiation, sterilization,
bio-compatibility testing)

Test Method(s) ⁴:

IEC 60601-1-6:10+A1:13+A2:20;
CAN/CSA-C22.2 NO. 60601-1-6
EN 60601-1-8:07+A1:13+A2:21;
IEC 60601-1-8:06+A1:12+A2:20;
AAMI/ANSI/IEC 60601-1-8

CAN/CSA-C22.2 No. 60601-1-8;
EN 60601-1-9:08+A1:13+A2:20;
IEC 60601-1-9:07+A1:13+A2:20;
EN 60601-1-11:10; EN 60601-1-11:15+A1:21;
IEC 60601-1-11:10; IEC 60601-1-11:15+A1:20;
ANSI/AAMI HA60601-1-11;
CAN/CSA-C22.2 No. 60601-1-11;
EN 60601-1-12:15; IEC 60601-1-12:14+A1:20;
EN 60601-2-2:07; EN 60601-2-2:09+A1:11;
IEC 60601-2-2:06; IEC 60601-2-2:09;
EN 60601-2-2:18; IEC 60601-2-2:17+A1:23;
AAMI/ANSI/IEC 60601-2-2;
CAN/CSA C22.2 No. 60601-2-2;
EN 60601-2-3:15+A1:16; IEC 60601-2-3:12+A1:16;
EN 60601-2-5:00; EN 60601-2-5:15;
IEC 60601-2-5:00; IEC 60601-2-5:09;
CAN/CSA C22.2 No. 60601-2-5;
EN 60601-2-10:15+A1:16;
IEC 60601-2-10:12+A1:16+A2:23;
IEC 60601-2-10 Edition 2.1 2016-04;
EN 60601-2-12:06; IEC 60601-2-12:01;
EN 60601-2-18:96+A1:00;
IEC 60601-2-18:96+A1:00;
EN 60601-2-19:96+A1:96;
IEC 60601-2-19:90+A1:96;
EN 60601-2-22:13; EN 60601-2-22:20;
IEC 60601-2-22:07+A1:12; IEC 60601-2-22:19;
CAN/CSA C22.2 No. 60601-2-22;
EN 60601-2-23:00; IEC 60601-2-23:99;
EN 60601-2-24:98; EN 60601-2-24:15;
IEC 60601-2-24:98; IEC 60601-2-24:12;
EN 60601-2-25:95+A1:99; EN 60601-2-25:15;
IEC 60601-2-25:93+A1:99; IEC 60601-2-25:11;
EN 60601-2-26:15; IEC 60601-2-26:12;
EN 60601-2-27:06; EN 60601-2-27:14;
IEC 60601-2-27:05; IEC 60601-2-27:11;
EN 60601-2-30:00; IEC 60601-2-30:99;
EN 60601-2-32:94; IEC 60601-2-32:94;
EN 60601-2-34:00; EN 60601-2-34:14;
IEC 60601-2-34:00; IEC 60601-2-34:11;
EN 60601-2-35:96; IEC 60601-2-35:96;
EN 60601-2-37:01+A1:05+A2:05
(evaluation of the customer protocols);



Test Technology:

Medical electrical equipment (Cont.)
(Excluding cathode ray tubes, pressure vessels,
natural latex rubber aging, material group
classification, spark ignition,
ignition of flammable anesthetic mixtures,
flexibility, adherence, X-radiation, sterilization,
bio-compatibility testing)

Lung ventilators, pulse oximeters

Electrical apparatus for potentially explosive
atmospheres

Safety of machinery

Electronic equipment for use in power
installations

Communication Networks and Systems

Plugs and socket-outlets for household and
similar purposes

Test Method(s) ⁴:

EN 60601-2-37:08+A1:15;
(evaluation of the customer protocols);
IEC 60601-2-37:07+A1:15;
(evaluation of the customer protocols);
CAN/CSA C22.2 No. 60601-2-37;
GB 9706.237-2020;
EN 60601-2-38:96+A1:00; IEC 60601-2-38:96+A1:99;
EN 60601-2-40:98; IEC 60601-2-40:98;
EN/IEC 60601-2-41:21 (Clause 201.9);
EN 60601-2-47:15; IEC 60601-2-47:12;
EN 60601-2-49:15; IEC 60601-2-49:11;
EN 60601-2-57:11; IEC 60601-2-57:11;
CAN/CSA C22.2 No. 60601-2-57;
EN 60601-2-62:15; IEC 60601-2-62:13;
EN 60601-2-76:19; IEC 60601-2-76:18;
EN 62366:08+A1:15; IEC 62366:07+A1:14;
IEC/EN 62304:06+A1:15;
EN IEC 80601-2-26:20; IEC 80601-2-26:19;
EN 80601-2-60:15; IEC 80601-2-60:12;
EN ISO 80601-2-61:19; ISO 80601-2-61:17;
ISO 80601-2-74:17;
EN IEC 80601-2-77:21; IEC 80601-2-77:19;
AAMI/ANSI/IEC 80601-2-77:20
EN 794-1:97+A2:09; EN 865:97; ISO 10651-1:93; ISO
10651-2:04; ISO 10651-3:97; IEC 60601-2-12:01; EN
60601-2-12:06; EN/ISO 9919:05;
EN/ISO 9919:09; ASTM F1415:00
EN 60079-0:04;
EN 50020:02
EN 60204-1:06+A1:09; EN 60204-1:18;
IEC 60204-1:05+A1:08; IEC 60204-1:16+A1:21;
SI 60204; EN ISO 12100:10; EN 1037:95+A1:08;
EN ISO 10218-1:11; EN ISO 10218-2:11;
EN 1088:95+A1:07; EN 1837:99; EN ISO 13857:08; EN
ISO 7731:08; EN 547-1:96; EN 547-2:96;
EN 547-3:96; EN 563:94+A1:99; EN 61310-1:95;
EN 61310-2:95; EN 61310-3:99; EN 614-1:06+A1:09;
EN 614-2:00; EN 842:96; EN 894-1:97; EN 894-2:97;
EN 983:96+A1:08; EN 4414:10; EN 999:98;
EN ISO 7250:98; EN 953:97; EN 981:96;
EN 982:96+A1:08; EN 4413:10;
ISO 13849-1:15; ISO 13849-2:12;
NFPA 79:21
EN 50178:97
IEEE Std 1613; IEEE Std 1613a; IEEE Std 1613.1;
EN/IEC 61850-3
IEC 60884-1:02+A1:06+A2:13;
SI 32 Part 1.1



Test Technology:

Adjustable speed electrical power drive systems
(Excluding high voltage systems above 1000V,
Partial discharge test, High current arcing
ignition test and Flammability tests)

Secondary cells and batteries containing
alkaline or other non-acid electrolytes
(Excluding cells tests)

Semiconductor manufacturing equipment

Cycles - Electrically power assisted cycles -
EPAC Bicycles

Alarm System Performance Testing

Alarm systems - Intrusion and hold-up
systems - Part 1: System requirements

Alarm systems - Intrusion systems - Part 2-2:
Requirements for passive infrared detectors

Alarm systems - Intrusion systems - Part 2-3:
Requirements for microwave detectors

Alarm systems - Intrusion systems - Part 2-4:
Requirements for combined passive infrared and
microwave detectors

Alarm systems - Intrusion systems - Part 2-5:
Requirements for combined passive infrared and
ultrasonic detectors

Alarm systems - Intrusion systems - Part 2-6:
Requirements for opening contacts (magnetic)
Alarm systems - Intrusion and hold-up systems
Part 2-8: Intrusion detectors - Shock detectors;
Section 6.3

Alarm systems - Intrusion systems - Part 3:
Control and indicating equipment

Alarm systems - Intrusion systems - Part 4:
Warning devices

Alarm systems - Intrusion systems - Part 5-3:
Requirements for interconnections equipment
using radio frequency techniques

Alarm systems - Intrusion systems - Part 6:
Power supplies

Intrusion and hold-up systems - Part 10:
Application specific requirements for

Supervised Premises Transceiver (SPT)

Alarm systems - Intrusion systems - Part 7:
Application guidelines

Alarm systems - Alarm transmission systems
and equipment

Test Method(s) ⁴:

EN 61800-5-1:07+A1:17+A11:21;
IEC 61800-5-1:07+A1:16

EN 62133-2:17+A1:21; IEC 62133-2:17+A1:21;
UL 62133-2 1st ed.; CSA C22.2 NO. 62133-2:20;
SI 62133 Part 2
SEMI S2-0200E; SEMI S2-0706; SEMI S8-0701;
SEMI S9-1101; SEMI S14; SEMI S10; SEMI S22;
SEMI S23-0705

EN 15194:09+A1:11; SI 15194;
ISO 4210-1:14; SI 4210 Part1;
ISO 4210-2:15; SI 4210 Part2

EN 50131-1:06+A1:09+A2:17+A3:20

EN 50131-2-2:08; EN 50131-2-2:17; EN 50131-2-2;
CLC/TS 50131-2-2:08

EN 50131-2-3:08; EN 50131-2-3;
CLC/TS 50131-2-3:04

EN 50131-2-4:08;
EN 50131-2-4:20;
CLC/TS 50131-2-4:04

EN 50131-2-5:08;
CLC/TS 50131-2-5:04

EN 50131-2-6:08;
CLC/TS 50131-2-6:04
CLC/TS 50131-2-8:12;
EN 50131-2-8:16

EN 50131-3:09;
CLC/TS 50131-3:2003
EN 50131-4:09; EN 50131-4:19;
CLC/TS 50131-4:06
EN 50131-5-3:05+A1:08;
EN 50131-5-3:17

EN 50131-6:98; EN 50131-6;
EN 50131-6:08+A1:14
EN 50131-10:14

CLC/TS 50131-7:03;
CLC/TS 50131-7:08
EN 50136-1-1:98+A1:01+A2:08;
EN 50136-1-2:98; EN 50136-1-3:98;
EN 50136-1-5:08; EN 50136-2-1:98+A1:01;
EN 50136-2-2:98; EN 50136-2-3:98;
EN 50136-2-4:98; EN 50136-1:12+A1:18;
EN 50136-2:13+A1:23; EN 50136-3:13+A1:21

Test Technology:

Alarm systems - Social alarm systems -
Part 2: Trigger devices
Alarm systems - Social alarm systems -
Part 3: Local unit and controller
On-Site testing²
(Customer Facility)

Test Method(s) ⁴:

EN 50134-2:99
EN 50134-3:01
MIL-STD-704 A/B/C/D/E/F; MIL-STD-285;
MIL-STD-188-125-1 (Shielding effectiveness);
IEEE Std. 299; IEEE Std. 299.1;
ANSI/IEEE C95.1-1991; IEEE Std. C95.1-2005;
SEMI E33-94; SEMI E33-1012;
EN 60601-1-2:01+A1:06; EN 60601-1-2:07;
EN 60601-1-2:15; EN 60601-1-2;
IEC 60601-1-2:01+A1:04; IEC 60601-1-2:07;
IEC 60601-1-2:14; IEC 60601-1-2; YY 9706.102;
IEC 60601-4-2;
GB9706.237-2020 (EMC Section 202.6 only);
ANSI/AAMI/IEC 60601-1-2;
CAN/CSA C22.2 NO. 60601-1-2-08;
CAN/CSA-C22.2 NO. 60601-1-2-08 (R2014);
CAN/CSA-C22.2 NO. 60601-1-2;
EN 61326-1:13; IEC 61326-1:12;
EN 61326-1; IEC 61326-1;
EN 55011:09+A1:10; EN 55011; CISPR 11:09+A1:10;
CISPR 11; EN 55022; CISPR 22; AS/NZS CISPR 22;
VCCI- 32-1-5; EN 55024; CISPR 24;
AS/NZS CISPR 24; EN 61000-6-1; IEC 61000-6-1;
EN 61000-6-3; IEC 61000-6-3; EN 61000-6-4;
IEC 61000-6-4; EN 61000-6-2; IEC 61000-6-2;
ENV 50166-1; ENV 50166-2; EN 50364:01; EN 50364;
EN 50371:02; EN 50131-2-2:08; EN 50131-2-2:17;
EN 50131-2-2; EN 50131-2-4, para. 6.4;
EN 50131-2-5:08, para. 6.4;
SEMI S2-0200E; SEMI S8-0701; SEMI S9-1101;
SEMI S10; SEMI S14; SEMI S22;
IEC/EN/UL/CSA/AS 60950-1
(*Except clauses 2.9.2, 4.6.5*);
IEC/EN/UL/CSA/AS 62368-1
(*Except clauses 5.4.8, P.4*);
IEC/EN/UL/CSA/AS 60335-1 (*Except clause 15.3*);
IEC/EN/UL/CSA/AS 60601-1 2nd Ed
(*Except clause 44.5*);
IEC/EN/UL/CSA/AS 60601-1 3rd Ed (*Except clause 5.7*);
IEC/EN/UL/CSA 60601-1-8;
IEC/EN/CSA/UL 60601-2-5;
IEC/EN/CSA/UL 60601-2-37;
IEC/EN/CSA/UL 60601-2-62;
IEC/EN/UL/CSA/AS 61010-1 (*Except clause 6.8.2*);
IEC/EN 60204 (*Except clause 4.4.4*)

¹This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratory listed below:



Test Technology:

Product Safety Tests

Information technology equipment
(Excluding hot flaming oil test,
abrasion resistance test,
cathode ray tube test,
and ionizing radiation test methods)

Audio, video, and similar electronic apparatus
(excluding hot flaming oil test, and ionizing
radiation)

Audio/video, information and communication
technology equipment

Household and similar electrical appliances
(excluding software evaluation, glow wire test
and oxygen bomb test)

Test Method(s) ⁴:

EN 60950:00; IEC 60950:99;
UL 60950 3rd Edition;
CAN/CSA-C22.2, No. 60950-03;
AS/NZS 60950:00+A1:03;
SI 1121:98;
EN 60950-1:01+A11:04; IEC 60950-1:01;
EN 60950-1:06+A11:09+A1:10+A12:11+A2:13;
IEC 60950-1:05+A1:09+A2:13;
UL 60950-1 2nd edition;
CAN/CSA-C22.2 No. 60950-1-07 (R2016);
AS/NZS 60950.1:03+A1:06+A2:08+A3:08;
AS/NZS 60950.1:11+A1:12; AS/NZS 60950.1:15;
SI 60950 Part 1:03; SI 60950 Part 1;
EN 60950-21:03; IEC 60950-21:02;
UL 60950-21 1st edition; SI 60950 Part 21;
EN 60950-22:06+A11:08; EN 60950-22:17;
IEC 60950-22:05; IEC 60950-22:16;
UL 60950-22 1st and 2nd edition; SI 60950 Part 22;
CAN/CSA C22.2 No. 60950-22-07 (R2016);
CAN/CSA-C22.2 No. 60950-22:17;
UL 50 12th edition
EN 60065:02+A1:06+A11:08+A2:10+A12:11;
IEC 60065:01+A1:05+A2:10; SI 60065:09;
SI 60065:12+A1:15; UL 60065 7th edition;
AS/NZS 60065:12+A1:15
EN 62368-1:14+A11:17; IEC 62368-1:14;
EN 62368-1; IEC 62368-1:18; IEC 62368-1; SI 62368-1;
UL 62368-1 2nd, 3rd Edition;
AS/NZS 62368.1:18; AS/NZS 62368.1;
CAN/CSA-C22.2 NO. 62368-1-14;
CSA C22.2 No. 62368-1:19;
EN/IEC 62368-3
EN 60335-1:02+A1:04+A11:04+A12:06+
A2:06+A13:08+A14:10+A15:11;
IEC 60335-1: 01+A1:04+A2:06;
AS/NZS 60335.1:02+A1:04+A2:07+A3:07;
UL 60335-1 4th edition; UL 60335-1: 5th edition;
CAN/CSA-C22.2 No. 60335-1-11

Test Technology:

Household and similar electrical appliances
(Cont.)

Test Method(s) ⁴:

EN 60335-1:12
+A11:14+A13:17+A14:19+A1:19+A2:19+A15:21;
IEC 60335-1:10+A1:13+A2:16;
AS/NZS 60335.1:20+A1:21
CAN/CSA-C22.2 NO. 60335-1:16;
UL 60335-1: 6th edition;
EN 60335-1; IEC 60335-1;
AS/NZS 60335.1;
EN 50106:08; EN 62301:05; SI 62301;
IEC 62301:05; IEC 62301:11;
SI 900 Part 1:05; SI 900 Part 1;
SI 900 Part 2.2, 2.3, 2.5, 2.6, 2.7, 2.8, 2.9, 2.11, 2.12,
2.13, 2.14, 2.15, 2.17, 2.23, 2.24, 2.25, 2.29, 2.30,
2.35, 2.45, 2.52, 2.60, 2.74, 2.80, 2.91, 2.97;
EN 60335-2-2:03+A1:04+A2:06;
IEC 60335-2-2:02+A1:04+A2:06;
IEC 60335-2-3:12+A1:15;
EN 60335-2-5:15+A1:20; IEC 60335-2-5:12+A1:18;
EN 60335-2-6:03+A1:05+A2:08+A11:10;
IEC 60335-2-6:02+A1:04+A2:08;
EN 60335-2-7:10+A1:13;
IEC 60335-2-7:08+A1:11+A2:16;
IEC 60335-2-9:08+A1:12+A2:16;
EN 60335-2-11:10+A1:15;
IEC 60335-2-11:08+A1:12+A2:15;
IEC 60335-2-12:02+A1:08+A2:17;
IEC 60335-2-13:09+A1:16;
EN 60335-2-14:06+A1:08+A11:12+A12:16;
IEC 60335-2-14:06+A1:08+A2:12;
IEC 60335-2-15:12+A1:16;
EN 60335-2-17:02+A1:06;
IEC 60335-2-17:02+A1:06;
EN 60335-2-23:03+A1:08+A11:10+A2:15;
IEC 60335-2-23:03+A1:08+A2:12;
CAN/CSA-C22.2 No. 60335-2-23:15;
IEC 60335-2-24:10+A1:12+A2:17;
EN 60335-2-24:10+A1:19+A2:19;
IEC 62552:07; SI 62552;
IEC 62552-1:15; IEC 62552-2:15; IEC 62552-3:15;
EN 60335-2-25:12+A1:15+A2:16;
IEC 60335-2-25:10+A1:14+A2:15;
IEC 60335-2-29:16;
IEC 60335-2-30:09+A1:16;
IEC 60335-2-35:12+A1:16;
EN 60335-2-36:02+A1:04+A2:08;
IEC 60335-2-36:02+A1:04+A2:08;
EN 60335-2-41:03+A1:04+A2:10;
IEC 60335-2-41:02+A1:04+A2:09;
AS/NZS 60335.2.41:04+A1:10;
IEC 60335-2-41:12;
EN 60335-2-41:21+A11:21;



Test Technology:

Household and similar electrical appliances
(Cont.)

Automatic equipment

Electric tools

Electrical equipment for measurement, control,
and laboratory use
(Excluding hot flaming oil test, and ionizing
radiation test methods)

In-Vitro diagnostic (IVD) medical equipment

Test Method(s) ⁴:

AS/NZS 60335.2.41:13+A1:18;
CAN/CSA-E60335-2-41:13;
IEC 60335-2-45:02+A1:08+A2:11;
IEC 60335-2-52:02+A1:08+A2:17;
EN 60335-2-60:03+A1:05;
IEC 60335-2-60:02+A1:04; IEC 60335-2-60:17;
EN 60335-2-74:03+A1:06+A2:09;
IEC 60335-2-74:02+A1:06+A2:09;
EN 60335-2-75:04+A1:05+A11:06+A2:08+A12:10;
IEC 60335-2-75:02+A1:04+A2:08;
IEC 60335-2-80:15;
IEC 60335-2-91:08;
EN 60335-2-96:02+A1:04;
IEC 60335-2-96:02+A1:03;
IEC 60335-2-97:16+A1:19;
EN 60335-2-109:10;
IEC 60335-2-109:10
UL 1740 4th Ed.; UL 3100 1st Ed.;
UL 508A 3rd Ed.
IEC 62841-1:14;
SI 62841 Part 1;
IEC 62841-2-2:14; SI 62841 Part 2.2;
IEC 62841-2-4:14; SI 62841 Part 2.4;
IEC 62841-2-5:14; SI 62841 Part 2.5;
IEC 62841-2-11:15; SI 62841 Part 2.11;
IEC 62841-2-14:15;
SI 62841 Part 2.14;
IEC 60745-1:06;
SI 60745 Part 1;
IEC 60745-2-3:06+A1:10+A2:12;
SI 60745 Part 2.3
EN 61010-1:01; IEC 61010-1:01+Corr1:02+Corr2:03;
UL 61010-1 2nd Edition; UL 61010-1 3rd Edition;
EN 61010-1; IEC 61010-1;
UL 61010A-1 1st edition; UL 61010B-1 1st edition;
UL 61010C-1; CAN/CSA-C22.2 No. 61010-1-04;
CAN/CSA-C22.2 No. 61010-1-12 + U1:15 + U2:16 +
AMD 1:18;
AS 61010.1:03; SI 61010-Part 1:02; SI 61010 Part 1;
UL 61010-031: 1st edition;
UL 61010A-2-041 1st edition;
EN 61010-2-010:03; IEC 61010-2-010:03;
EN 61010-2-010:20; IEC 61010-2-010:19;
EN 61010-2-030:10; IEC 61010-2-030:10
EN 61010-2-040:05; IEC 61010-2-040:05;
EN 61010-2-101:17; EN 61010-2-101:22+A11:22;
IEC 61010-2-101:15; IEC 61010-2-101:18;
UL 61010-2-101 3rd edition;
CAN/CSA C22.2 61010-2-101

Test Technology:**Test Method(s) ⁴:**

Automatic electrical controls for household and similar use

Laser products

Sealing, wrapping, and marking equipment power units

Swimming pool pumps, filters, and chlorinators

Battery Chargers

Power units other than Class 2

Luminaires

Needle-based injection systems for medical use

EN 60730-1:00+A1:04+A12:03+A13:04+A14:05+A15:07;

UL 60730-1A:02; EN 60730-2-8:95+A1:97+A2:97;

EN 60730-2-9+A1:96+A11:97+A2:97

EN 60825-1:94+A1:02+A2:01;

IEC 60825-1:93+A1:97+A2:01;

EN 60825-1:07; IEC 60825-1:07;

EN 60825-1:14+A11:21; IEC 60825-1:14;

EN 60825-2:04+A1:07+A2:10;

IEC 60825-2:04+A1:06+A2:10; 21 CFR 1040

UL 963 2nd edition

UL 1081 6th and 7th edition (*excluding clauses 38 and 44*)

UL1564 4th edition

UL 1012 7th edition

SI 20 Part 1;

SI 20 Part 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.10, 2.11, 2.18, 2.20, 2.22;

EN 60598-1:04+A1:06; EN 60598-1:08; EN 60598-1;

IEC 60598-1:03+A1:06; IEC 60598-1:08; IEC 60598-1;

EN 60598-2-1:89; IEC 60598-2-1:79+A1:87;

EN 60598-2-2:12; IEC 60598-2-2:11;

EN 60598-2-3:03+A1:11; IEC 60598-2-3:03+A1:11;

EN 60598-2-4:97; IEC 60598-2-4:97;

EN 60598-2-5:15; IEC 60598-2-5:15;

EN 60598-2-6:94+A1:97; IEC 60598-2-6:94+A1:96;

EN 60598-2-7:89+A2:96+A13:97;

IEC 60598-2-7:82+A1:87+A2:94;

EN 60598-2-8:13; IEC 60598-2-8:13;

EN 60598-2-10:03; IEC 60598-2-10:03;

EN 60598-2-11:13; IEC 60598-2-11:13;

EN 60598-2-18:94+A1:12; IEC 60598-2-18:93+A1:11;

EN 60598-2-20:15; IEC 60598-2-20:14;

EN 60598-2-22: 98+A1:03+A2:08;

IEC 60598-2-22:97+A1:02+A2:08;

EN 62560:11+A1:15+A11:19; IEC 62560:11+A1:15;

SI 62560; IEC 62778:14; IEC 62471:06; EN 62471:08;

SI 62471; IEC 61347-1:15+A1:17; SI 61347 Part 1;

IEC 61347-2-1:00+A1:05+A2:13; SI 61347 Part 2.1;

IEC 61347-2-13:14+A1:16; SI 61347 Part 2.13

ISO 11608-1:12; ISO 11608-1;

ISO 11608-4:06; ISO 11608-4

Test Technology:

Medical electrical equipment
(Excluding cathode ray tubes, pressure vessels,
natural latex rubber aging, material group
classification, spark ignition,
ignition of flammable anesthetic mixtures,
flexibility, adherence, X-radiation, sterilization,
bio-compatibility testing)

Test Method(s) ⁴:

EN 60601-1:90+A1:93+A11:93+A12:93+A2:95+A13:96;
IEC 60601-1:88+A1:91+A2:95;
UL 60601-1 1st edition;
CAN/CSA C22.2 No. 601.1-M90;
EN 60601-1:06+A11:11+A1:13+A2:21;
IEC 60601-1:05+A1:12+A2:20;
ANSI/AAMI ES60601-1:05+A1:12+C1:09+A2:10;
ANSI/AAMI ES60601-1:05+A1:12+A2:21;
ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012,
C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text)
[Incl. AMD2:2021] – (Except clauses: 8.8.4.2, 8.9.1.7,
9.5.2, 9.7.5, 10.1, 11.2.2.1, 11.2.2.2, 11.6.7, Annex G.
Annex L.3.2);
CAN/CSA C22.2 No. 60601-1-08;
CAN/CSA-C22.2 No. 60601-1:14;
CAN/CSA-C22.2 No. 60601-1:14+A2:22;
SI 1011, SI 60601 Part 1, SI 60601 Part 2.2, 2.3, 2.5;
GB 9706.1-2020;
EN 60601-1-1:01; IEC 60601-1-1:00;
EN 60601-1-3:94; EN 60601-1-3:08+A1:13;
IEC 60601-1-3:94; IEC 60601-1-3:08+A1:13;
EN 60601-1-4:96+A1:99; IEC 60601-1-4:96+A1:99;
EN 60601-1-6:10+A1:15+A2:21;
IEC 60601-1-6:10+A1:13+A2:20;
CAN/CSA-C22.2 NO. 60601-1-6
EN 60601-1-8:07+A1:13+A2:21;
IEC 60601-1-8:06+A1:12+A2:20;
AAMI/ANSI/IEC 60601-1-8;
CAN/CSA-C22.2 No. 60601-1-8;
EN 60601-1-9:08+A1:13+A2:20;
IEC 60601-1-9:07+A1:13+A2:20;
EN 60601-1-11:10; EN 60601-1-11:15+A1:21;
IEC 60601-1-11:10; IEC 60601-1-11:15+A1:20;
ANSI/AAMI HA60601-1-11;
CAN/CSA-C22.2 No. 60601-1-11;
EN 60601-1-12:15; IEC 60601-1-12:14+A1:20;
EN 60601-2-2:07; EN 60601-2-2:09+A11:11;
IEC 60601-2-2:06; IEC 60601-2-2:09;
EN 60601-2-2:18; IEC 60601-2-2:17+A1:23;
AAMI/ANSI/IEC 60601-2-2;
CAN/CSA C22.2 No. 60601-2-2;
EN 60601-2-3:15+A1:16; IEC 60601-2-3:12+A1:16;
EN 60601-2-5:00; EN 60601-2-5:15;
IEC 60601-2-5:00; IEC 60601-2-5:09;
CAN/CSA C22.2 No. 60601-2-5;
EN 60601-2-10:15+A1:16;
IEC 60601-2-10:12+A1:16+A2:23;
IEC 60601-2-10 Edition 2.1 2016-04;
EN 60601-2-12:06; IEC 60601-2-12:01;
EN 60601-2-18:96+A1:00;



Test Technology:

Medical electrical equipment (Cont.)
(Excluding cathode ray tubes, pressure vessels,
natural latex rubber aging, material group
classification, spark ignition,
ignition of flammable anesthetic mixtures,
flexibility, adherence, X-radiation, sterilization,
bio-compatibility testing)

Lung ventilators, pulse oximeters

Electrical apparatus for potentially explosive
atmospheres

Test Method(s) ⁴:

IEC 60601-2-18:96+A1:00;
EN 60601-2-19:96+A1:96;
IEC 60601-2-19:90+A1:96;
EN 60601-2-22:13; EN 60601-2-22:20;
IEC 60601-2-22:07+A1:12; IEC 60601-2-22:19;
CAN/CSA C22.2 No. 60601-2-22;

EN 60601-2-23:00; IEC 60601-2-23:99;
EN 60601-2-24:98; EN 60601-2-24:15;
IEC 60601-2-24:98; IEC 60601-2-24:12;
EN 60601-2-25:95+A1:99; EN 60601-2-25:15;
IEC 60601-2-25:93+A1:99; IEC 60601-2-25:11;
EN 60601-2-26:15; IEC 60601-2-26:12;
EN 60601-2-27:06; EN 60601-2-27:14;
IEC 60601-2-27:05; IEC 60601-2-27:11;
EN 60601-2-30:00; IEC 60601-2-30:99;
EN 60601-2-32:94; IEC 60601-2-32:94;
EN 60601-2-34:00; EN 60601-2-34:14;
IEC 60601-2-34:00; IEC 60601-2-34:11;
EN 60601-2-35:96; IEC 60601-2-35:96;
EN 60601-2-37:01+A1:05+A2:05
(evaluation of the customer protocols);
EN 60601-2-37:08+A1:15;
(evaluation of the customer protocols);
IEC 60601-2-37:07+A1:15;
(evaluation of the customer protocols);
CAN/CSA C22.2 No. 60601-2-37;
GB 9706.237-2020;
EN 60601-2-38:96+A1:00; IEC 60601-2-38:96+A1:99;
EN 60601-2-40:98; IEC 60601-2-40:98;
EN/IEC 60601-2-41:21 (Clause 201.9);
EN 60601-2-47:15; IEC 60601-2-47:12;
EN 60601-2-49:15; IEC 60601-2-49:11;
EN 60601-2-57:11; IEC 60601-2-57:11;
CAN/CSA C22.2 No. 60601-2-57;
EN 60601-2-62:15; IEC 60601-2-62:13;
EN 60601-2-76:19; IEC 60601-2-76:18;
EN 62366:08+A1:15; IEC 62366:07+A1:14;
IEC/EN 62304:06+A1:15;
EN IEC 80601-2-26:20; IEC 80601-2-26:19;
EN 80601-2-60:15; IEC 80601-2-60:12;
EN ISO 80601-2-61:19; ISO 80601-2-61:17;
ISO 80601-2-74:17;
EN IEC 80601-2-77:21; IEC 80601-2-77:19;
AAMI/ANSI/IEC 80601-2-77:20;
EN 794-1:97+A2:09; EN 865:97; ISO 10651-1:93;
ISO 10651-2:04; ISO 10651-3:97; IEC 60601-2-12:01;
EN 60601-2-12:06; EN/ISO 9919:05;
EN/ISO 9919:09; ASTM F1415:00
EN 60079-0:04;
EN 50020:02



Test Technology:**Test Method(s) ⁴:**

Safety of machinery

EN 60204-1:06+A1:09; EN 60204-1:18;
IEC 60204-1:05+A1:08; IEC 60204-1:16+A1:21;
SI 60204; EN ISO 12100:10; EN 1037:95+A1:08;
EN ISO 10218-1:11; EN ISO 10218-2:11;
EN 1088:95+A1:07; EN 1837:99; EN ISO 13857:08;
EN ISO 7731:08; EN 547-1:96; EN 547-2:96;
EN 547-3:96; EN 563:94+A1:99; EN 61310-1:95;
EN 61310-2:95; EN 61310-3:99; EN 614-1:06+A1:09;
EN 614-2:00; EN 842:96; EN 894-1:97; EN 894-2:97;
EN 983:96+A1:08; EN 4414:10; EN 999:98;
EN ISO 7250:98; EN 953:97; EN 981:96;
EN 982:96+A1:08; EN 4413:10;
ISO 13849-1:15; ISO 13849-2:12;
NFPA 79:21
EN 50178:97

Electronic equipment for use in power installations

Communication Networks and Systems

IEEE Std 1613; IEEE Std 1613a; IEEE Std 1613.1;
EN/IEC 61850-3

Adjustable speed electrical power drive systems
(*Excluding high voltage systems above 1000V,
Partial discharge test, High current arcing
ignition test and Flammability tests*)

EN 61800-5-1:07+A1:17+A11:21
IEC 61800-5-1:07+A1:16

Secondary cells and batteries containing
alkaline or other non-acid electrolytes
(*Excluding cells tests*)

EN 62133-2:17+A1:21; IEC 62133-2:17+A1:21;
UL 62133-2 1st ed.; CSA C22.2 NO. 62133-2:20;
SI 62133 Part 2

² This laboratory performs field testing activities for these tests.

³ This laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

⁴ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁵:

Rule Subpart/Technology	Test Method	Maximum Frequency
<u>Unintentional Radiators</u> Part 15B	ANSI C63.4:2014	40000 MHz
<u>Industrial, Scientific, and Medical Equipment</u> Part 18	FCC MP-5 (February 1986)	40000 MHz
<u>Intentional Radiators</u> Part 15C	ANSI C63.10:2013	500000 MHz
<u>Unlicensed Personal Communication Systems Devices</u> Part 15D	ANSI C63.17:2013	20000 MHz
<u>U-NII without DFS Intentional Radiators</u> Part 15E	ANSI C63.10:2013	40000 MHz
<u>UWB Intentional Radiators</u> Part 15F	ANSI C63.10:2013	40000 MHz
<u>BPL Intentional Radiators</u> Part 15G	ANSI C63.10:2013	1000 MHz
<u>White Space Device Intentional Radiators</u> Part 15H	ANSI C63.10:2013	40000 MHz
<u>Commercial Mobile Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (cellular), 24, 25 (below 3 GHz), and 27	ANSI/TIA-603-E; ANSI C63.26:2015	40000 MHz
<u>General Mobile Radio Services (FCC Licensed Radio Service Equipment)</u> Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz)	ANSI/TIA-603-E; ANSI C63.26:2015	40000 MHz
<u>Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment)</u> Part 96	ANSI/TIA-603-E; ANSI C63.26:2015	40000 MHz
<u>Microwave and Millimeter Bands Radio Services</u> Parts 25 (above 3 GHz), 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz) and 101	ANSI/TIA-603-E; ANSI C63.26:2015	500000 MHz

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1⁵:

Rule Subpart/Technology	Test Method	Maximum Frequency
<u>Signal Boosters</u> Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters), Section 90.219	ANSI C63.26:2015	40000 MHz

⁵ Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (<https://apps.fcc.gov/oetcf/eas/>) for a listing of FCC approved laboratories.



Testing Activities performed under the scope of the U.S FDA ASCA Pilot Program Specifications: *Basic Safety and Essential Performance of Medical Electrical Equipment, Medical Electrical Systems, and Laboratory Medical Equipment – Standards Specific Information for the Accreditation Scheme for Conformity Assessment (ASCA) Pilot Program* published on September 25th, 2020, and in accordance with all requirements of A2LA R256 Specific Requirements- FDA ASCA Program⁶

<u>Standards</u>	<u>ASCA Doc #</u>
ANSI AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012 and AMD2:21 – (Except clauses: 8.8.4.2, 8.9.1.7, 9.5.2, 9.7.5, 10.1, 11.2.2.1, 11.2.2.2, 11.6.7, Annex G. Annex L.3.2)	19-4
ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012, C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl. AMD2:2021] – (Except clauses: 8.8.4.2, 8.9.1.7, 9.5.2, 9.7.5, 10.1, 11.2.2.1, 11.2.2.2, 11.6.7, Annex G. Annex L.3.2)	19-46
IEC 60601-1-2 Edition 4.0 2014-02	19-8
IEC 60601-1-2 Edition 4.1 2020-09	19-36
ANSI AAMI IEC 60601-1-2:2014 & A1:2021	19-36
IEC 60601-4-2 Edition 1.0 2016-05	19-19
IEC 60601-1-3 Edition 2.1 2013-04 – (Except clauses: 6.3.1)	12-269
IEC 60601-1-6 Edition 3.1 2013-10	5-89
IEC 60601-1-6 Edition 3.2 2020-07	5-132
IEC 60601-1-8 Edition 2.1 2012-11	5-76
IEC 60601-1-8 Edition 2.2 2020-07	5-131
ANSI AAMI IEC 60601-1-8:2006 & A1:2012 & A1:2021	5-131
IEC 60601-1-11 Edition 2.0 2015-01	19-14
IEC 60601-1-11 Edition 2.1 2020-07	19-38
ANSI AAMI HA60601-1-11:2015 & A1:2021	19-47
IEC 60601-1-12 Edition 1.0 2014-06	19-15
IEC 60601-2-2 Edition 6.0 2017-03 – (Except clause: 201.11.6.7)	6-389
AAMI/ANSI/IEC 60601-2-2:2017 – (Except clause: 201.11.6.7)	6-389
IEC 60601-2-5: Edition 3.0 2009-07	12-205
IEC 60601-2-10 Edition 2.1 2016-04	17-16
IEC 60601-2-22 Edition 3.1 2012-10	12-268
IEC 60601-2-25 Edition 2.0 2011-10	3-105
IEC 60601-2-27 Edition 3.0 2011-03	3-126
IEC 60601-2-34 Edition 3.0 2011-05 – (Except clause: 201.9.7.5)	3-115
IEC 60601-2-37 Edition 2.1 2015	12-293
IEC 60601-2-47 Edition 2.0 2012-02	3-155
IEC 60601-2-57 Edition 1.0 2011-01	12-242
IEC 60601-2-62 Edition 1.0 2013-07	12-281
IEC 61010-1 Edition 3.1 2017-01 – (Except clause: 12.2)	19-34
ANSI UL 61010-1 3rd Ed – (Except clause: 12.2)	19-41
IEC 80601-2-60 Edition 2.0 2019-06	4-262
ISO 80601-2-61 Second edition 2017-12 (Corrected version 2018-02)	1-139
ISO 80601-2-74 First edition 2017-05 – (Except clause: 201.11.6.7, 201.11.7)	1-138
IEC 80601-2-77 Edition 1.0 2019-07	6-438
AAMI/ANSI/IEC 80601-2-77:2020	6-438

⁶ These methods have been assessed by A2LA according to A2LA's FDA ASCA Program requirements. Accreditation by A2LA does not imply FDA ASCA-Accreditation. All ASCA-accreditation decisions for testing laboratory applications are made solely by the FDA, a list of approved laboratories can be found at FDA.gov.



Accredited Laboratory

A2LA has accredited

HERMON LABORATORIES

Binyamina, Israel

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the A2LA – R256 – Specific Requirements – FDA ASCA Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 12th day of September 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0839.01
Valid to May 31, 2025

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