



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TIMCO ENGINEERING, INC.

849 NW State Road 45

Newberry, FL 32669

Bruno Clavier Phone: 352 472 5500 E-mail: bruno@timcoengr.com

Website: <http://www.timcoengr.com>

ELECTRICAL (EMC)

Valid to: December 31, 2023

Certificate Number: 0955.01

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 Program⁴ requirements), accreditation is granted to this laboratory to perform the following tests on the following product types: Medical, Scientific, Industrial, Consumer, Automotive, Commercial, Telecommunications, Military, Wireless, Marine, Test and Measurement, Aerospace, Lightning and Lasers, Information Technology Equipment, and Radio equipment:

Test Technology:

Test Method(s) ¹:

Unintentional Emissions

Radiated and Conducted

US (FCC)

Unintentional Radiators

FCC Part 15B (using ANSI C63.4:2014)²

Industrial, Scientific, and Medical
(Consumer ISM)

FCC Part 18 (using MP-5:1986)

Canada (ISED)

Unintentional Radiators

ICES-002²; ICES-003²

Industrial, Scientific and Medical
(ISM) Radio Frequency
Generators

ICES-001

Lighting Equipment

ICES-005

Japan

Unintentional Radiators

VCCI V-3 (up to 6 GHz); VCCI-CISPR 32:2016 (up to 6 GHz)

International

Harmonic Current Emissions

EN 61000-3-2; IEC 61000-3-2; AS/NZS 61000.3.2

Fluctuation and Flicker

EN 61000-3-3; IEC 61000-3-3; AS/NZS 61000.3.3

Test Technology:

Test Method(s) ¹:

Unintentional Radiators

EN 55011; CISPR 11; AS/NZS CISPR 11; CISPR 12; CISPR 14-1; EN 55022 (2010); CISPR 22-2008 (*Excluding Section 9.6*); AS/NZS CISPR 22; CISPR 32; EN 55032; AS/NZS CISPR 32; EN 61000-6-3; IEC 61000-6-3; EN 61000-6-4; IEC 61000-6-4

***Intentional Emissions
Unlicensed Transmitters &
Receivers***
**US (FCC) (Excluding SAR and
DFS)**

Intentional Radiators

47 CFR, FCC Part 15 C Unlicensed Transmitters (using ANSI C63.10:2013)²

UPCS

47 CFR, FCC Part 15 D Unlicensed Personal Communication Systems (using ANSI C63.17:2013)

U-NII without DFS Intentional Radiators

47 CFR, FCC Part 15 E U-NII without DFS (using ANSI C63.10:2013)

Ultra-Wideband Intentional Radiators

47 CFR, FCC Part 15 F Ultra-Wideband (using ANSI C63.10:2013)

Access Broadband Over Power Line (Access BPL)

47 CFR, FCC Part 15 G Ultra-Wideband (using ANSI C63.10:2013)

White Space Device Intentional Radiators

47 CFR, FCC Part 15 H White Space Device (using ANSI C63.10-2013)

Canada (ISED) (Excluding SAR and DFS)

Intentional Radiators License Exempt

RSS-Gen²; RSS-210²; RSS-211²; RSS-213²; RSS-215²; RSS-216²; RSS-220²; RSS-222; RSS-236; RSS-238; RSS-243; RSS-244; RSS-246²; RSS-247 (without DFS)²; RSS-248; RSS-251²; RSS-252²; RSS-287²; RSS-288²; RSS-310²; RSS-102 (RF Exposure and NS)²; SPR-002²

Canadian Broadcasting Standards

BETS-1; BETS-4; BETS-5; BETS-6; BETS-8; BETS-9

Australia/New Zealand (Excluding SAR and DFS)

Unlicensed Transmitter / Receiver Emissions

AS/NZS 4268

Test Technology:

EU Radio

EU Radio Test (Excluding DFS, OTA, Relative Humidity, Salt Spray, Rain, and Vibration)

Test Method(s) ¹:

EN 300 086-2; EN 300 113; EN 300 135-2; EN 300 219-2;
EN 300 220-1; ETSI EN 300 220-2; ETSI EN 300 220-3;
EN 300 220-4; EN 300 224; EN 300 296; EN 300 328;
ETSI EN 300 330; EN 300 341-2; EN 300 373-2; EN 300 373-3;
EN 300 390; ETSI EN 300 440-2; EN 300 422-1; EN 300 422-2;
EN 300 422-3; EN 300 422-4; EN 300 433; EN 300 440;
EN 300 676-2; EN 300 391-1; EN 300 391-2; EN 300 394-1;
EN 300 396-2; EN 300 698-2; EN 300 698-3; EN 300 720-2;
EN 300 392-2; EN 300 394-1; EN 301 025-2;
EN 301 025-3; EN 301 091-1; EN 301 091-2;
EN 301 091-3; EN 301 166-1; EN 301 166-2; EN 301 178-2;
EN 301 357-2; EN 301 426; EN 301 598; EN 301 793;
EN 301 839; EN 301 843-2; EN 301 893; EN 301 908-1;
EN 301 908-2; EN 301 908-3; EN 301 908-8; EN 301 908-11;
EN 301 908-13; EN 301 908-14; EN 301 908-15; EN 301 908-18;
EN 301 908-20; EN 302 065; EN 302 066 EN 302 195;
EN 302 208; EN 302 248; EN 302 288-2; EN 302 291-1;
EN 302 291-2; EN 302 537; EN 302 858-1; EN 302 858-2;
EN 302 885-2; EN 302 885-3; EN 303 035-1; EN 303 035-2;
EN 301 126-1; EN 301 126-3-1; EN 301 360; EN 301 390;
EN 302 217-1; EN 302 217-2-1; EN 302 217-2-2; EN 302 217-3;
EN 302 217-4-2; EN 302 264-2; EN 302 326-2; EN 301 459;
EN 302 567; EN 303 035-1; EN 305 550-2; EN 303 978;
ETSI EN 301 908-1 V4.2.1_2010_03; ETSI EN 301 908-1;
ETSI TS 125 141 V8.8.0_2009_10; ETSI TS 125 141;
ETSI TS 134 121-1 V8.8.0_2009_11; ETSI TS 134 121-1;
ETSI TS 125 143 V8.3.0_2009_10; ETSI TS 125 143;
ETSI TS 137 141 V11.3.0_2013_02; ETSI TS 137 141;
ETSI TS 151 021 V13.9.0_2020_04; ETSI TS 151 021;
ETSI TS 138 104 V15.2.0_2018_07; ETSI TS 138 104;
ETSI TS 138 141-2 V15.2.0_2019_07; ETSI TS 138 141-2;
ETSI TS 138 101-2 V15.3.0_2018_10; ETSI TS 138 101-2;
ETSI TS 138 521-2 V15.2.0_2019_05; ETSI TS 138 521-2;
ETSI TS 138 104 V15.2.0_2018_07; ETSI TS 138 104;
ETSI TS 138 141-1 V15.0.0_2019_04; ETSI TS 138 141-1;
ETSI TS 138 101-1 V15.3.0_2018_10; ETSI TS 138 101-1;
ETSI TS 138 521-1 V15.3.0_2019_07; ETSI TS 138 521-1;
ETSI TS 138 101-3 V15.3.0_2018_02; ETSI TS 138 101-3;
ETSI TS 138 521-3 V15.2.0_2019_05; ETSI TS 138 521-3;
ETSI TS 137 104 V15.4.0_2018_10; ETSI TS 137 104;
ETSI TS 137 141 V11.3.0_2013_02; ETSI TS 137 141



Test Technology:

Test Method(s) ¹:

Radio

Licensed Transmitters &

Receivers

US (FCC)

Commercial Mobile Services

47 CFR, FCC Parts 22 (cellular), 24, 25 (below 3 GHz), 27 (using ANSI C63.26:2015, ANSI/TIA-603-E, and TIA-102.CAAA-E)²

General Mobile Radio Services

47 CFR, FCC Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz) (using ANSI C63.26:2015, ANSI/TIA-603-E, and TIA-102.CAAA-E)

Citizens Broadband Radio Services

47 CFR, FCC Part 96 (using ANSI C63.26:2015, ANSI/TIA-603-E, and TIA-102.CAAA-E)

Broadcast Radio Services

47 CFR, FCC Parts 73 and 74 (below 3 GHz) (using ANSI C63.26:2015, ANSI/TIA-603-E, and TIA-102.CAAA-E)

Signal Boosters

47 CFR, FCC Parts 20 and 90.219 (using ANSI C63.26:2015)

Maritime and Aviation Radio Services

47 CFR, FCC Parts 80 and 87 (using ANSI C63.26:2015 and ANSI/TIA-603-E)²

Microwave and Millimeter Bands Radio Services

47 CFR, FCC Parts, 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101 (using ANSI C63.26:2015, ANSI/TIA-603-E, and TIA-102.CAAA-E)

Canada (ISED)

Licensed Transmitters & Receivers
(*Excluding SAR & DFS*)

RSS-Gen²; RSS-111²; RSS-112²; RSS-117²; RSS-119²; RSS-123²; RSS-125²; RSS-127²; RSS-130²; RSS-131²; RSS-132²; RSS-133²; RSS-134²; RSS-135²; RSS-137²; RSS-139²; RSS-140²; RSS-141²; RSS-142²; RSS-170²; RSS-181²; RSS-182²; RSS-191²; RSS-192²; RSS-194²; RSS-195²; RSS-196²; RSS-197²; RSS-199²; RSS-102 (RF Exposure and NS)²; SPR-002²

International

Licensed Transmitters

ANSI/TIA-603-E

RF Exposure Evaluation
(*Excluding SAR*)

EN 62233; EB 62479; EN 62311; EN 50385; EN 50364; EN 50663; EN 50665; IEEE C95.3; IEEE Std C95.1; IEC/EN 62209-1; IEC/EN 62209-2

Australia/New Zealand

Licensed Transmitters & Receivers

AS/NZS 4365; AS/NZS 4415.1; AS/NZS 4415.1 Amendment 1; AS/NZS 4415.2; AS/NZS 4415.2 Amendment 1; AS/NZS 4583; AS/NZS 4770; AS/NZS 4769.1; AS/NZS 4769.2; AS/NZS 4582; AS 4367; AS/NZS 4295; AS/NZS 4768.1

Test Technology:

Test Method(s) ¹:

Immunity

| | |
|--|---|
| ESD | EN 61000-4-2; IEC 61000-4-2; KN 61000-4-2 |
| Radiated Immunity (80 MHz to 6 GHz) | EN 61000-4-3; IEC 61000-4-3; KN 61000-4-3 |
| EFT/Burst | EN 61000-4-4; IEC 61000-4-4; KN 61000-4-4 |
| Surge (Excluding Annex A) | EN 61000-4-5; IEC 61000-4-5; KN 61000-4-5 |
| Conducted Immunity (Excluding EM clamp coupling) | EN 61000-4-6; IEC 61000-4-6; KN 61000-4-6 |
| Power Frequency Magnetic Field Immunity | EN 61000-4-8; IEC 61000-4-8; KN 61000-4-8 |
| Voltage Dips, Short Interruptions, and Voltage Variations Immunity | EN 61000-4-11; IEC 61000-4-11; KN 61000-4-11 |
| EU Product Family Immunity Standards | EN 301 489-1; EN 301 489-2; EN 301 489-3; EN 301 489-4; EN 301 489-5; EN 301 489-6; EN 301 489-9; EN 301 489-13; EN 301 489-15; EN 301 489-17; EN 301 489-19; EN 301 489-20; EN 301 489-22; EN 301 489-24; EN 301 489-27; EN 301 489-32; EN 301 489-50; EN 60945-2002 (Excluding section 8) |

ApecTEL MRA

| | |
|----------------|---|
| Australia | AS/NZS CISPR 11; AS/NZS CISPR 13; AS/NZS CISPR 14.1; AS/NZS CISPR 15; AS/NZS CISPR 22; AS/NZS CISPR 32; AS/NZS 61000.3.2; AS/NZS 61000.3.3; AS/NZS 61000.6.3; AS/NZS 61000.6.4; AS/NZS CISPR 14.2; AS/NZS 2772.2; AS/NZS 4268 with Radiocommunications (Short range devices) Standard 2014; AS/NZS 4769.2; AS/NZS 4769.2 with Radiocommunications (Paging Service Equipment) Standard 2014; AS/NZS 62040.2 |
| ACMA Standards | Radiocommunications (Analogue Speech (Angle Modulated) Equipment) Standard 2014; Radiocommunications (UHF CB Radio Equipment) Standard 2011 (No. 1); Radiocommunications (VHF Radiotelephone Equipment – Maritime Mobile Service) Standard 2014; Radiocommunications (118 MHz to 137 MHz Amplitude Modulated Equipment - Aeronautical Radio Service) Standard 2012; Radiocommunications (Paging Service Equipment) Standard 2014; Radiocommunications (MF and HF Radiotelephone Equipment - International Maritime Mobile Service) Standard 2014; |



Test Technology:

Test Method(s) ¹:

ACMA Standards (*cont.*)

Radiocommunications (MF and HF Equipment – Land Mobile Service) Standard 2014;
Radiocommunications (Short Range Devices) Standard 2014;
Radiocommunications (HF CB and Handphone Equipment) Standard 2008;
Radiocommunications (Devices used in the Inshore Boating Radio Services Band) Standard 2008

Taiwan

CNS 13783-1; CNS 13803; CNS 13438; RTTE01; LP 0002;
DGT C-IS2031-0; DGT C-IS2034-0; DGT LP0002;
CNS 13438 (up to 6 GHz)

Mexico

IFT-008-2015 (all subsections);
NOM-208-SCFI-2016 (all subsections); IFT-014-2018: Part 1;
IFT-014-2018: Part 2; IFT-015-2018

Vietnam

TCVN 7189:2009; TCVN 7317:2003; QCVN 18:2014/BTTTT;
QCVN 54:2011/BTTTT; QCVN 55:2011/BTTTT;
QCVN 53:2017/BTTTT; QCVN 11:2010/BTTTT;
QCVN 73:2013/BTTTT; QCVN 74:2013/BTTTT;
QCVN 95:2015/BTTTT; QCVN 96:2015/BTTTT;
QCVN 14:2010/BTTTT; QCVN 16:2018/BTTTT;
QCVN 18:2014/BTTTT; QCVN 23:2011/BTTTT;
QCVN 25:2011/BTTTT; QCVN 37:2018/BTTTT;
QCVN 41:2016/BTTTT; QCVN 42:2011/BTTTT;
QCVN 43:2011/BTTTT; QCVN 44:2018/BTTTT;
QCVN 45:2011/BTTTT; QCVN 46:2011/BTTTT;
QCVN 48:2011/BTTTT; QCVN 49:2011/BTTTT;
QCVN 54:2011/BTTTT; QCVN 65:2013/BTTTT;
QCVN 66:2018/BTTTT

Hong Kong

HKCA 1001; HKCA 1002; HKCA 1003; HKCA 1004;
HKCA 1005; HKCA 1006; HKCA 1007; HKCA 1008;
HKCA 1010; HKCA 1015; HKCA 1016; HKCA 1019;
HKCA 1020; HKCA 1022; HKCA 1026; HKCA 1033;
HKCA 1034; HKCA 1035; HKCA 1036; HKCA 1037;
HKCA 1039; HKCA 1041; HKCA 1042; HKCA 1043;
HKCA 1044; HKCA 1045; HKCA 1046; HKCA 1047;
HKCA 1048; HKCA 1049; HKCA 1050; HKCA 1052;
HKCA 1053; HKCA 1054; HKCA 1055; HKCA 1056;
HKCA 1057; HKCA 1061; HKCA 1064; HKCA 1065;
HKCA 1066; HKCA 1067; HKCA 1068; HKCA 1069;
HKCA 1070; HKCA 1071; HKCA 1072; HKCA 1073;
HKCA 1074; HKCA 1075; HKCA 1076; HKCA 1077;
HKCA 1078; HKCA 1079; HKCA 1080; HKCA 1218;
HKCA 1223; HKCA 1224; HKCA 1225; HKCA 1257;
HKCA 1258; HKCA 1259; HKCA 1260; HKCA 1261;
HKCA 1262; HKCA 1263; HKCA 1264; HKCA 1265;
HKCA 1266; HKCA 1277; HKCA 1281; HKCA 1282;

Test Technology:

Test Method(s) ¹:

Hong Kong (*cont.*)

HKCA 1283; TAC001; TAC 002; TAC 003; TAC 004;
TAC 005; TAC 006; TAC 007; TAC 008; TAC 009; TAC 010;
TAC 011

Hong Kong (Safety)
(*Excluding SAR testing*)

HKCA 2001

Singapore

IMDA TS SRD (August 2021);
IMDA TS LMR (October 2016);
IMDA TS AR (October 2016);
IMDA TS CT-CTS (October 2016);
IMDA TS CMT (September 2020);
IMDA TS CBS (September 2020);
IMDA TS WBA (October 2016);
IMDA TS UWB (October 2016);
IMDA TS DVB-T2 IRD (November 2017);
IMDA TS WSD (October 2016);
IMDA TS DSRC (October 2017);
IMDA TS IOT (November 2017);
IMDA TS RG-SEC (October 2020);
IMDA TS GMPCS (October 2016)

Japan

VCCI-CISPR 32:2016; J55014-1; J55011; J55013; J55022;
J55032; ARIB Standard STD-T33; ARIB Standard STD-T57;
ARIB Standard STD-T66; ARIB Standard STD-T81;
MIC Article 2-1; MIC Notification No. 88 of 2004, Annex 43

Japan- Public notice of
MIC No.88(2004) Test method of specified radio equipment

Annex No.20 (Premises Radio)
Article 2 paragraph 1 item (6);
Article 2 paragraph 1 item (6)-2

Annex No.22 (Specified low power radio equipment)
Article 2 paragraph 1 item (8)

Annex No.29 (W-CDMA (HSPA) Land mobile station)
Article 2 paragraph 1 item (11)-3;
Article 2 paragraph 1 item (11)-7

Annex No.31 (W-CDMA (HSPA) Femtocell Base Station, Indoor
Base Station, Base Station)
Article 2 paragraph 1 item (11)-5;
Article 2 paragraph 1 item (11)-6-2;
Article 2 paragraph 1 item (11)-6-4;
Article 2 paragraph 1 item (11)-9;
Article 2 paragraph 1 item (11)-10-2;



Test Technology:

Japan (*cont.*)

Test Method(s) ¹:

Article 2 paragraph 1 item (11)-10-4

Annex no. 43

Annex no. 44

Annex no. 45 (Low power data communications system in the 2.4GHz/5GHz/60GHz Bands)

Article 2 paragraph 1 item (19);

Article 2 paragraph 1 item (19)-2-2;

Article 2 paragraph 1 item (19)-2;

Article 2 paragraph 1 item (19)-2-3;

Article 2 paragraph 1 item (19)-3;

Article 2 paragraph 1 item (19)-3-2;

Article 2 paragraph 1 item (19)-3-3;

Article 2 paragraph 1 item (19)-4-2;

Article 2 paragraph 1 item (19)-4-3

Annex No. 47 (wireless access system, Base station, Land Mobile Relay, Land mobile station)

Article 2 paragraph 1 item (19)-5;

Article 2 paragraph 1 item (19)-6;

Article 2 paragraph 1 item (19)-7;

Article 2 paragraph 1 item (19)-8;

Article 2 paragraph 1 item (19)-9;

Article 2 paragraph 1 item (19)-10;

Article 2 paragraph 1 item (19)-11

Annex No.74

Annex No.75 (AXGP Land mobile station, Femtocell Base Station, Base Station)

Article 2 paragraph 1 item (53);

Article 2 paragraph 1 item (54);

Article 2 paragraph 1 item (54-2);

Article 2 paragraph 1 item (54-3);

Article 2 paragraph 1 item (54-4)

Annex No.86

Annex No.87 (LTE Land mobile station, Femtocell Base Station, Base Station)

Article 2 paragraph 1 item (11)-19;

Article 2 paragraph 1 item (11)-20;

Article 2 paragraph 1 item (11)-20-2;

Article 2 paragraph 1 item (11)-20-3;

Article 2 paragraph 1 item (11)-21;

Article 2 paragraph 1 item (11)-21-2;

Article 2 paragraph 1 item (11)-22;

Article 2 paragraph 1 item (11)-23;

Article 2 paragraph 1 item (11)-24

Test Technology:

Test Method(s) ¹:

Japan (*cont.*)

(NR Sub-6G and mmW Land mobile station, Base Station)
Article 2 paragraph 1 item (11)-29;
Article 2 paragraph 1 item (11)-30;
Article 2 paragraph 1 item (11)-31;
Article 2 paragraph 1 item (11)-32

Regulation of the Extremely Low Power Radio Station
Article 4 Paragraph 1 of Radio Law;
Article 6 Paragraph 1 of the Enforcing Ordinance
MIC Notification No. 173

Malaysia

Specification for Short Range Devices (SRD) - MCMC MTSFB
TC T007:2014;
Specification for Land Mobile Radio Equipment - MCMC
MTSFB TC T012:2015;
Technical Specification for GSM Mobile Terminals - SKMM
WTS GSM- MT Rev.1.01:2007;
Technical Specification for Cordless Telephone Systems
SKMM WTS CTS Rev.1.01:2007;
Technical Specification for Broadband Wireless Access (BWA)
Equipment SKMM WTS BWA Rev.1.01:2007;
Technical Specification for Amateur Radio Equipment SKMM
WTS ARE Rev.1.01:2007;
Technical Specification for IMT- 2000 Third-Generation (3G)
Cellular Mobile Terminals SKMM WTS IMT- MT Rev.1.01:2007

Israel

SI 961 Part 11; SI 961 Part 14.1; SI 961 Part 14.2; SI 961 Part 15;
SI 961 Part 24; SI 961 Part 32, SI 961 Part 35; SI 961 part 48.1;
SI 961 Part 48.7; SI 961Part 48.24; SI 961 Part 48.3;
SI 31489 part 34; SI 61000 part 3.2; SI 61000 part 3.3;
SI 61000 part 6.1; SI 61000 part 6.2; SI 61000 part 6.3;
SI 61000 part 6.4;

EMC/Safety (*Excluding hot flaming oil test, abrasion resistance
test, cathode ray tube test, and ionizing radiation test methods*)
SI 62368 Part 1; SI 62301;
SI 60950 Part 1:03; SI 60950 Part 1; SI 60950 Part 21;
SI 60950 Part 22; SI 60065:09; SI 60065:12+A1:15;

Medical
SI 60601 Part 1.2

***Generic/Product Family EMC
Tests***

IEC/EN 61000-6-1; IEC/EN 61000-6-2;
IEC/EN 61000-6-3; IEC/EN 61000-6-4;
IEC 61800-3:2017; EN 50121-3-2; EN 50155;
CISPR 24; EN 55024; CISPR 35; EN 55035; CISPR 25;
EN 50130-4; EN 55014-1; CISPR 14-1;
CISPR 14-2; EN 55014-2; EN 50083-2;
EN 61326-1; EN 61326-2-1; EN 61326-2-6;



Test Technology:

Test Method(s) ¹:

Generic/Product Family EMC Tests (cont.)

EN 301 437; EN 300 386; EN 301 449; EN 301 511; EN 50121-3; ES 203 021; ETSI 300 132-1; ETSI 300 132-2; ETSI 300 132-3; ETSI 300 386; AS/NZS 4252.1

Electrical Product Safety

OFFICE IT and Office Equipment

(Excluding Abrasion, Enclosed/Sealed Parts, CRT/High Vacuum, Flammable Liquids, UV Radiation, Resistance to Corrosion, and Mandrel)

IEC/EN 62368-1; AS/NZS 60950.1; IEC 60950-1; EN 60950-1; AS/NZS 60950-1; UL 62368-1; UL 60950; UL 60950-1; CAN/CSA C22.2 No. 62368-1; CAN/CSA C22.2 No. 60950

MEAS

Measurement, Control and Laboratory Equipment

(Excluding Ionizing and Laser Radiation, Sonic and ultrasonic pressure, Cathode Ray Tube tests)

IEC/EN 61010-1; IEC 61010-1 Ed. 3.0; EN 61010-1 Ed. 3.0; IEC 61010-1 (Ed.3.1); UL 61010-1 (Ed.3); CSA C22.2 No. 61010-1 Ed. 3.0

TRON

Electronics, Entertainment

(Excluding Vibration, Ionizing and Laser Radiation, IEC 60529, tests for protection against dust & water ingress, Cathode Ray Tube tests, Proof tracking (CTI) test, Insulated winding wires test, 10kV surge test)

IEC/EN 60065; AS/NZS 60065; UL 60065; UL 60065; CSA C22.2 No. 60065

HOUS

Household and similar Equipment

(Excluding Oxygen bomb test, Ionizing and Laser Radiation, Coated PWBs, Resistance to Rusting [Salt Spray], Radiation, Toxicity, and Similar Hazards protection against dust & water ingress, Proof tracking (CTI) test)

IEC 60335-1 Ed. 6.0; EN 60335-1; UL 60335-1; CSA 60335.1

ITAV

IEC 62368-1; EN 62368-1



Test Technology:

Test Method(s) ¹:

Information Technology Audio Video

(Excluding Ionizing and Laser Radiation, UV Radiation, Concentration of flammable vapors, Tests for protection against dust & water ingress, Cathode Ray Tube tests, Hot flaming oil test, Proof tracking (CTI) test, Insulated winding wires test, Power line cross test, 10kV surge test, Accessibility test for media destruction device, Test for high pressure lamps, Acoustic energy measurement)

UL 62368-1;
CSA 62368-1; CSA 62368-1 (Ed.2)

Medical Equipment

(Excluding Risk Assessment, Environmental IEC 60529, Vibration, Pressure Vessels, Protection Against Hazards of Ignition of Flammable Anesthetic Mixtures)

IEC 60601-1-2 Edition 4.1 2020-09 CSV;
IEC 60601-1-2 Edition 4.0 2014-02;
ANSI AAMI IEC 60601-1-2:2014;
BS EN 60601-1-2;
IEC/EN 60601-1; IEC/EN 60601-1 (ed.3.2);
ANSI AAMI ES60601-1;
UL 60601-1; CSA 60601-1

On the following products or types of products:

Industrial, Scientific, and Medical (ISM) Equipment; Information Technology Equipment (ITE); Office equipment; Household Appliances; Portable Tools; Multimedia; Laboratory equipment; and Medical Equipment.

¹ 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*.

² This laboratory performs field testing activities for these tests.

| Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ³ : | | |
|---|-----------------|-------------------------|
| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
| Unintentional Radiators | | |
| Part 15B | ANSI C63.4:2014 | 40000 |

Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1³:

| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
|--|--------------------------|--------------------------------|
| Industrial, Scientific, and Medical Equipment | | |
| Part 18 | FCC MP-5 (February 1986) | 40000 |
| Intentional Radiators | | |
| Part 15C | ANSI C63.10:2013 | 40000 |
| Unlicensed Personal Communication Systems Devices | | |
| Part 15D | ANSI C63.17:2013 | 40000 |
| U-NIII without DFS Intentional Radiators | | |
| Part 15E | ANSI C63.10:2013 | 40000 |
| UWB Intentional Radiators | | |
| Part 15F | ANSI C63.10:2013 | 40000 |
| BPL Intentional Radiators | | |
| Part 15G | ANSI C63.10:2013 | 40000 |
| White Space Device Intentional Radiators | | |
| Part 15H | ANSI C63.10:2013 | 40000 |
| Commercial Mobile Services (FCC Licensed Radio Service Equipment) | | |
| Parts 22 (cellular), 24, 25 (below 3 GHz), and 27 | ANSI C63.26:2015 | 40000 |
| General Mobile Radio Services (FCC Licensed Radio Service Equipment) | | |
| Parts 22 (non-cellular), 90 (below 3 GHz), 95 (below 3 GHz), 97 (below 3 GHz), and 101 (below 3 GHz) | ANSI C63.26:2015 | 40000 |
| Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) | | |
| Part 96 | ANSI C63.26:2015 | 40000 |
| Maritime and Aviation Radio Services | | |
| Parts 80 and 87 | ANSI C63.26:2015 | 40000 |
| Microwave and Millimeter Bands Radio Services | | |
| Parts 25, 30, 74, 90 (above 3 GHz), 95 (above 3 GHz), 97 (above 3 GHz), and 101 | ANSI C63.26:2015 | 40000 |

| Testing Activities Performed in Support of FCC Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1 ³ : | | |
|---|------------------|-------------------------|
| Rule Subpart/Technology | Test Method | Maximum Frequency (MHz) |
| Broadcast Radio Services | | |
| Parts 73 and 74 (below 3 GHz) | ANSI C63.26:2015 | 40000 |
| Signal Boosters | | |
| Part 20 (Wideband Consumer Signal Boosters, Provider-specific signal boosters, and Industrial Signal Boosters) 90.219 | ANSI C63.26:2015 | 40000 |

³Accreditation 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: <i>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</i> published on September 25th, 2020, and in accordance with all requirements of A2LA R256 <i>Specific Requirements- FDA ASCA Program</i> ⁴ |
| <u>Standards</u> |
| IEC 60601-1-2 Edition 4.1 2020-09 CSV |
| IEC 60601-1-2 Edition 4.0 2014-02 |
| ANSI AAMI IEC 60601-1-2:2014 |

⁴*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

TIMCO ENGINEERING, INC.

Newberry, FL

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 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 13th day of December 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0955.01
Valid to December 31, 2023

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