



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

LabTest Certification, Inc.
3128, 20800 Westminster HWY
Richmond B.C. V6V 2W3

Fulfills the requirements of

ISO/IEC 17025:2017

and

**U.S. Federal Communication Commission (FCC) EMC and Telecommunications
(EC&T) Testing Designation Program**

**Recognition of Telecommunications Testing - Innovation, Science, and Economic
Development (ISED) Canada**

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 04 March 2022

Certificate Number: AT-2033



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

U.S. Federal Communication Commission (FCC) EMC and Telecommunications (EC&T) Testing Designation Program ²

Recognition of Telecommunications Testing - Innovation, Science, and Economic Development (ISED) Canada ³

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TESTING

Valid to: **March 04, 2022**

Certificate Number: **AT-2033**

Testing performed in support of FCC approval procedures for Certification ²

Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments / Maximum Frequency Tested
Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C63.4-2014	-	40 GHz
Industrial, Scientific, and Medical Equipment (FCC Part 18) Consumer ISM equipment	FCC MP-5, (February 1986)	-	40 GHz
Intentional Radiators (FCC Part 15 Subpart C)	ANSI C63.10-2013	-	40 GHz
U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E) Unlicensed National Information Infrastructure Devices (U-NII without DFS)	ANSI C63.10-2013	KDB Publication 789033	40 GHz
U-NII with DFS Intentional Radiators (FCC Part 15 Subpart E) Unlicensed National Information Infrastructure U-NII) Devices with Dynamic Frequency Selection (DFS)	FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v02 (April 8, 2016)	-	40 GHz
BPL Intentional Radiators (FCC Part 15, Subpart G) Access Broadband Over Power Line (Access BPL)	ANSI C63.10-2013	-	40 GHz



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Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments / Maximum Frequency Tested
White Space Device Intentional Radiators (FCC Part 15, Subpart H) White Space Devices	ANSI C63.10-2013	-	40 GHz
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Part 22 (cellular) Part 24 Part 25 (below 3 GHz) Part 27	ANSI/TIA-603-E or TIA-102.CAAA-E-2016 or ANSI C63.26-2015	KDB Publication 971168	40 GHz
General Mobile Radio Services (FCC Licensed Radio Service Equipment) [1] Part 22 (non-cellular) Part 90 (below 3 GHz) Part 95 (below 3 GHz) Part 97 (below 3 GHz) Part 101 (below 3 GHz)	ANSI/TIA-603-E or TIA-102.CAAA-E-2016 or ANSI C63.26-2015	-	40 GHz
Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) Part 96	ANSI/TIA-603-E or TIA-102.CAAA-E-2016 or ANSI C63.26-2015	KDB Publication 971168 KDB Publication 940660	40 GHz
Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) Part 80 Part 87	ANSI/TIA-603-E or ANSI C63-26-2015	-	40 GHz
Microwave and Millimeter Bands Radio Services (FCC Licensed Radio Service Equipment) Part 25 Part 30 Part 74 Part 90 (above 3 GHz) Part 95 (above 3 GHz) Part 97 (above 3 GHz) Part 101	ANSI/TIA-603-E or TIA-102.CAAA-E-2016 or ANSI C63.26-2015	KDB Publication 653005	40 GHz
Broadcast Radio Services (FCC Licensed Radio Service Equipment) Part 73 Part 74 (below 3 GHz)	ANSI/TIA-603-E or TIA-102.CAAA-E-2016 or ANSI C63.26-2015	-	40 GHz



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Testing performed in support of FCC approval procedures for Certification ²

Type of Device Examples	Scope of Accreditation	Supporting FCC Guidance	Comments / Maximum Frequency Tested
Signal Boosters (Part 20) Wideband Consumer signal boosters Provider-specific signal boosters Industrial signal boosters Signal Boosters (Section 90.219)	ANSI C63.26-2015	KDB Publication 935210 D03, D04, and D05 [1]	40 GHz

Testing to Meet the Requirements for Recognition of Telecommunications Testing – Innovation, Science, and Economic Development (ISED) Canada ³

Test Method (Standard)	Test Specification(s)	Range	Comments
RSS-Gen Issue 5 Amd 2, 4-2018, RSS-102 (NS-Calculation only) Issue 5 Amd 1, 2-2021 RSS-111 Issue 5, 9-2014, RSS-112 Issue 1, 2-2008, RSS-117 Issue 3, 1-2016, RSS-119 Issue 12, 5-2015, RSS-123 Issue 4, 8-2019, RSS-125 Issue 3, 6-2020, RSS-127 Issue 1, 8-2009, RSS-130 Issue 2, 2-2019, RSS-131 Issue 3 1-2017 Rev 5-2017 RSS-132 Issue 3, 1-2013, RSS-133 Issue 6 Amd 1-2018, RSS-134 Issue 2, 2-2016, RSS-135 Issue 2, 6-2009, RSS-137 Issue 2, 2-2009, RSS-139 Issue 3, 7-2015, RSS-141 Issue 2, 6-2010, RSS-142 Issue 5, 4-2013, RSS-170 Issue 3, 7-2015, RSS-181 Issue 2 Amd 2-2020, RSS-182 Issue 5, 1-2012, RSS-191 Issue 2, 4-2008, RSS-192 Issue 4, 5-2020, RSS-194 Issue 1, 10-2007, RSS-195 Issue 2, 4-2014, RSS-210 Issue 10 Amd 4-2020, RSS-211 Issue 1, 3-2015, RSS-213 Issue 3, 3-2015, RSS-215 Issue 2, 6-2009, RSS-216 Issue 2 Amd 1, 9-2020, RSS-220 Issue 1 Amd 1, 7-2018, RSS-236 Issue 1, 9-2012, RSS-238 Issue 1, 7-2013, RSS-243 Issue 3, 2-2010, RSS-244 Issue 1, 6-2013, RSS-251 Issue 2, 7-2018, RSS-287 Issue 2, 3-2014, RSS-288 Issue 1, 1-2012, RSS-310 Issue 5, 1-2020,	Radiated and Conducted emissions	-	-



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Electromagnetic Compatibility

Test Method	Test Specification(s)	Range	Comments
Unintentional Radiators, Radiated and Conducted Emissions	ANSI C63.4-2003, ANSI C63.4-2009 ANSI C63.4:2014; FCC OST/MP-05 (1986); ICES-001(2006); ICES-002(2013); ICES-003(2016); ICES-005(2015); CISPR 16-2-1(2017); CISPR 16-2-3(2016); EN 55016-2-1(2014); EN 55016-2-3(2014); CISPR 11(2016); EN 55011(2016); AS/NZS CISPR 11(2016); KN 11 (RRA Announce 2016-79, Dec, 19, 2016); VCCI V-3 (up to 6 GHz); VCCI V-5; CNS 13438	9 kHz to 40 GHz	-
Harmonics Emissions	IEC 61000-3-2 (2014); EN 61000-3-2 (2014); AS/NZS 61000-3-2(2014); KN 61000-3-2 (RRA Announce 2016-79, Dec, 19, 2016) IEC 61000-3-12 (2011), EN 61000-3-12 (2011)	-	-
Flicker Emissions	IEC 61000-3-3 (2013); EN 61000-3-3 (2013); AS/NZS 61000-3-3(2013); KN 61000-3-3 (RRA Announce 2016-79, Dec, 19, 2016) IEC 61000-3-11(2010), EN 61000-3-11(2010)	-	-
ESD Immunity Testing	IEC 61000-4-2(2008); EN 61000-4-2(2009); KN 61000-4-2 (RRA Announce 2016-79, Dec, 19, 2016) IEC 60255-22-2(2014), ISO 10605(2008)	-	-
RF Immunity Radiated Immunity	IEC 61000-4-3(2010); IEC 61000-4-20(2010); EN 61000-4-3(2010); EN 61000-4-20(2010); KN 61000-4-3 (RRA Announce 2016-79, Dec, 19, 2016), IEEE Std. C37.90.2	Up to 18 GHz 30V/m @ 3m 200V/m @ 1m	-
EFT	IEC 61000-4-4 (2012); EN 61000-4-4(2012); KN 61000-4-4 (RRA Announce 2016-79, Dec, 19, 2016)		-

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Test Method	Test Specification(s)	Range	Comments
Surge	IEC 61000-4-5 (2017); EN 61000-4-5 (2014); KN 61000-4-5 (RRA Announce 2016-79, Dec, 19, 2016)		-
Conducted Immunity	IEC 61000-4-6 (2013); EN 61000-4-6 (2014); KN 61000-4-6 (RRA Announce 2016-79, Dec, 19, 2016) IEC 61000-4-16(2015)	-	-
Low Frequency Magnetic Immunity	IEC 61000-4-8 (2009); EN 61000-4-8(2010); KN 61000-4-8 (RRA Announce 2016-79, Dec, 19, 2016)	-	-
Pulse Field Immunity	IEC 61000-4-9(2016), EN 61000-4-9(2016) KN 61000-4-9 (2017)	-	-
Damped Oscillatory Field	IEC 61000-4-10(2016), EN 61000-4-10(2017)	-	-
Power Dips and Interrupts	IEC 61000-4-11 (2017); EN 61000-4-11 (2004); KN 61000-4-11 (RRA Announce 2016-79, Dec, 19, 2016)	-	-
Ring Wave Immunity	IEC 61000-4-12 (2017), EN 61000-4-12 (2017)	-	-
Harmonics and Interharmonics	IEC 61000-4-13 (2015), EN 61000-4-13 (2009)	-	-
Damped oscillatory wave immunity test	IEC 61000-4-18 (2010), EN 61000-4-18(2007)	-	-
Generic EMC Standards	IEC 61000-6-1(2016), IEC 61000-6-3(2010) EN 61000-6-1(2007) EN 61000-6-3(2017/AC:2012) AS/NZS 61000.6.3(2012) KN 61000-6-1 (RRA Announce 2016-79, Dec, 19, 2016) KN 61000-6-3 (RRA Announce 2016-79, Dec, 19, 2016) IEC 61000-6-2(2016), IEC 61000-6-4(2018) EN 61000-6-2(2005), AS/NZS 61000.6.4(2012) EN 61000-6-4(2007/A1:2011) KN 61000-6-2 (RRA Announce 2016-79, Dec, 19, 2016) KN 61000-6-4 (RRA Announce 2016-79, Dec, 19, 2016)	-	-

Electromagnetic Compatibility

Test Method	Test Specification(s)	Range	Comments
Product Type EMC Standards Multimedia Equipment	CISPR 22 (2010), CISPR 24(2010/A1:2015) CISPR 32(2015), CISPR 35(2016) EN 55022(2010), EN55024 (2010) EN 55032(2015), EN 55035(2017) AS/NZS CISPR 22(2010) AS/NZS CISPR 32(2013) AS/NZS CISPR 24(2009) KN35 (RRA Announce 2016-79, Dec, 19, 2016) TCVN 7189:2009, TCVN 7600:2010 TCVN 7317:2003	-	-
Product Type EMC Standards Household appliances	CISPR 14-1(2016), EN 55014-1 (2017) CISPR 14-2(2015), EN55014-2(2015) AS/NZS CISPR 14-1(2013) KN 14-1(RRA Announce 2016-79, Dec, 19, 2016)	-	-
Product Type EMC Standards Measurement Control & Laboratory	IEC 61326-1(2012), IEC 61326-2(2012) EN 61326-1(2013), EN 61326-2(2013)	-	-
Product Type EMC Standards Medical Devices	IEC 60601-1-2(Ed3 & Ed.4) EN 60601-1-2(2015) KN 60101-1-2(RRA Announce 2016-79, Dec, 19, 2016)	-	-
Product Type EMC Standards, Lifts, escalators and moving walks	EN 12015(2014), EN 12016(2013)	-	-
Product Type EMC Standards, Alarm systems	EN 50130-4(2011)	-	-
Product Type EMC Standards Audio, video, audio-visual and entertain-ment; lighting control apparatus for professional use	EN 55103-1(2012), EN 55103-2(2009)	-	-
Product Type EMC Standards Signaling on low-voltage electrical installation	EN50065-1(2011), EN50065-2-1(2003) EN50065-2-2(2003), EN50065-2-3(2003)	-	-

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Test Method	Test Specification(s)	Range	Comments
Product Type EMC Standards Lighting and similar equipment	CISPR 15(2013/A1 :2015) EN 55015(2013), IEC 61547(2009) EN 61547(2009) KN 61547(RRA Announce 2016-79, Dec, 19, 2016)	-	-
Product Type EMC Standards Gases, toxic gases or oxygen	EN 50270(2015)	-	-
Product Type EMC Standards, Electricity metering equipment (a.c.)	IEC 62053-22(2003/A1:2016) EN 62053-22(2003)		
Product Type EMC Standards, Railway applications	EC 62236-1, 2, 3, 4, 5(2008) EN 50121-1,2,3,4,5(2015)		
Product Type EMC Standards Automotive	CISPR 12(2009), CISPR 25(2016) EN 55012(2012), EN 55025(2017) AS/NZS CISPR 12(2013), ISO 7637-2 ISO 11452-1(2015), ISO 11452-2(2019) ISO 11452-4(2015), ISO 11452-7(2015) ISO 11452-8(2015), ISO 11452-9(2015) ISO 11452-10(2015), ISO 10605(2014) UNECE R10:2014	-	-
Product Type EMC Standards Maritime	IEC 60945(2002) EN 60945(2002) LLOYD'S REGISTRE TYPE APPROVAL SYSTEM Test Specification Number 1 DNVGL-CG-0339	-	-
Product Type EMC Standards UPS and Power Units	IEC 61800-3(2017) EN 61800-3(2004) IEC 62040-2(2016) EN 62040-2(2006) AS 62040-2(2008)	-	-
Military Conducted Emissions	MIL-STD-461E, F, G: Methods CE101, CE102, CE106 MIL-STD-462D Methods CE101, CE102, CE106 MIL-STD-462 Methods CE01, CE02, CE03, CE06	-	-



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Test Method	Test Specification(s)	Range	Comments
Military Radiated Emissions	MIL-STD-461E, F, G: Methods RE101, RE102 and RE103 MIL-STD-462D: Methods RE101, RE102 and RE 103 MIL-STD-462: Methods RE01, RE02 and RE03	-	-
Military Conducted Susceptibility	MIL-STD-461E, F, G: Methods CS101, CS 103, CS104, CS105, CS109, CS114, CS115, CS116 MIL-STD- 462D: Methods CS101, CS103, CS114, CS115, CS116; CS118 MIL-STD-462: Methods, CS01, CS02, CS03, CS04, CS05, CS06, CS08	-	-
Military Radiated Susceptibility	MIL-STD-461/462D: Methods RS101, RS103 MIL-STD-461E, F, G: Methods RS101, RS103	-	-

Radio

Test Method	Test Specification(s)	Range	Comments
Australia/New Zealand	AS/NZS 4268(2012) AS/NZS 4295(2015) AS/NZS 4365(2011)	-	-
Europe	ETSI EN 300 113, v2.2.1(2016-12) ETSI EN 300 220-1, v3.1.1(2017-02) ETSI EN 300 220-2, v3.2.0(2017-09) ETSI EN 300 330, v2.1.1(2017-02) ETSI EN 300 390, v2.1.1(2016-03) ETSI EN 300 440, v2.2.0(2017-09) ETSI EN 301 489-1, v2.2.0(2017-03) ETSI EN 301 489-3, v2.2.1(2017-03) ETSI EN 301 489-4, v3.2.0(2017-03) ETSI EN 301 489-5, v2.2.0(2017-03) ETSI EN 301 489-11, v1.3.1(2006-05) ETSI EN 301 489-13, v1.2.1(2002-08) ETSI EN 301 489-17, v3.2.0(2017-03) ETSI EN 301 489-34, v2.1.1(2017-04)	-	-

Radio

Test Method	Test Specification(s)	Range	Comments
Hongkong	HKCA 1039 Issue 6 June 2015; HKCA 1042 Issue 2 Feb 2003; HKCA 1049 Issue 1 April 2005; HKCA 1020 Issue 7 Nov 2011; HKCA 1043 Issue 4 June 2008; HKCA 1056 Issue 1 May 2011	-	-
Vietnam	QCVN 18:2014/BTTTT, QCVN 44:2011/BTTTT QCVN 54:2011/BTTTT, QCVN 55:2011/BTTTT QCVN 65:2013/BTTTT, QCVN 73:2013/BTTTT QCVN 74:2013/BTTTT, QCVN 96:2015/BTTTT	-	-
Mexico	NOM-084sct1-2002, NOM-088/1-SCT1-2002 NOM-088/2-SCT1-2002 NOM-EM-016-SCF1-2015	-	-
South Korea	MSIT Public Notification 2019-74, Aug 30, 2019 RRA Public Notification 2019-9, Jun 3, 2019	-	-

Notes:

1. For Signal Boosters (Part 20) accreditation is required for Commercial Mobile Services (FCC Licensed Radio Services Equipment) and for Signal Booster (Section 90.219) accreditation is required for General Mobile Radio Services (FCC Licensed Radio Service Equipment).
2. Testing performed in support of FCC approval procedures for certification.
3. Testing performed to meet the Requirements for Recognition of Telecommunications Testing – Innovation, Science, and Economic Development (ISED) Canada.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2033.



R. Douglas Leonard Jr., VP, PILR SBU