SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CELLTECH LABS INC.
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ELECTRICAL

Valid to: November 30, 2018 Certificate Number: 2470.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic exposure and wireless telecommunications tests:

Test Technology:	**Test Method(s)[1]:**
Emissions	
Conducted and Radiated *(3m OATS, table top equipment only, up to 40 GHz)*	CFR 47, FCC Part 15, Subpart B (using ANSI C63.4:2014); CISPR 22 *(excluding measurements on telecom ports)*; CFR 47, FCC Part 18 (using MP-5:1986); ICES-001; ICES-003
Immunity	
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2
Radiated Immunity (*UFA 0.5m x 0.5m, 3 V/m, 80 MHz-2.7GHz*)	IEC 61000-4-3; EN 61000-4-3
Electrical Fast Transient / Burst (EFT)	IEC 61000-4-4; EN 61000-4-4
Surge	IEC 61000-4-5; EN 61000-4-5
Conducted Immunity	IEC 61000-4-6; EN 61000-4-6
Voltage Dips, Interrupts, and Variations	IEC 61000-4-11; EN 61000-4-11

Test Technology:	**Test Method(s)[1]:**
Generic/Product Family/ Product Specific Standards	
Generic Emissions	EN 61000-6-3 (*excluding the following measurements:* *a) low voltage AC mains ports [0 kHz to 2 kHz]* *b) discontinuous disturbance on low voltage AC mains ports [0,15 MHz to 30 MHz]* *c) telecommunications/network ports [0,15 MHz to 30 MHz]*) IEC 61000-6-3 (*excluding the following measurements:* *a) low voltage AC mains ports [0 kHz to 2 kHz]* *b) discontinuous disturbance on low voltage AC mains ports [0,15 MHz to 30 MHz]* *c) telecommunications/network ports [0,15 MHz to 30 MHz]*) EN 61000-6-4 (*excluding the following measurements:* *a) enclosure port [30 MHz to 1000 MHz]* *b) telecommunications/network ports [0,15 MHz to 30 MHz]*) IEC 61000-6-4 (*excluding the following measurements:* *a) enclosure port [30 MHz to 1000 MHz]* *b) telecommunications/network ports [0,15 MHz to 30 MHz]*)
Generic Immunity	EN 61000-6-1 (*excluding the following measurement:* *a) enclosure port [Power-frequency magnetic field]*) IEC 61000-6-1 (*excluding the following measurement:* *a) enclosure port [Power-frequency magnetic field]*) EN 61000-6-2 (*excluding the following measurements:* *a) enclosure port [Power-frequency magnetic field]* *b) enclosure port [Radio-frequency electro-magnetic field 80 to 1 000 MHz]* *c) signal ports [Radio-frequency common mode]* *d) input and output DC and AC power ports [Radio-frequency common mode]*) IEC 61000-6-2 (*excluding the following measurements:* *a) enclosure port [Power-frequency magnetic field])* *b) enclosure port [Radio-frequency electro-magnetic field 80 to 1 000 MHz]* *c) signal ports [Radio-frequency common mode]* *d) input and output DC and AC power ports [Radio-frequency common mode]*)

Test Technology:	**Test Method(s)[1]:**
Generic/Product Family/ Product Specific Standards (cont.)	CISPR 24 (*excluding the following measurement:* *a) enclosure port [Power-frequency magnetic field]*); EN 301489-1; EN 301489-2; EN 301489-3
Radio Tests *(3m OATS, table top equipment only, up to 40 GHz)*	
Unlicensed Radio – FCC *(excluding DFS testing)*	CFR 47, FCC Part 2; CFR 47, FCC Part 15 Subparts C/E (using ANSI C63.4:2014 and ANSI C63.10:2013); FCC KDB 789033; AS/NZS 4268
Licensed Radio – FCC	CFR 47, FCC Parts 22, 24, 25, 27, 80, 87, 90, 95, 97 and 101 (using ANSI/TIA-603-D and TIA-102.CAAA-D); ANSI C63.26 ; AS/NZS 4365
IC / ISED	RSS 112; RSS 119; RSS 123; RSS 125; RSS 127; RSS 130; RSS 131; RSS 132; RSS 133; RSS 134; RSS 135; RSS 137; RSS 139; RSS 141; RSS 142; RSS 170; RSS 182; RSS 191; RSS 192; RSS 194; RSS 195; RSS 196; RSS 197; RSS 199; RSS 210; RSS 213; RSS 236; RSS 243; RSS 244; RSS 247; RSS 287; RSS 288; RSS 310; RSS Gen
European Union (EU) *(excluding Adaptivity testing)*	EN 300220-1; EN 300220-2; EN 300330-1; EN 300330-2; EN 300440-1; EN 300440-2; EN 300328; EN 301178-1
Specific Absorption Rate (SAR) RF Exposure/SAR	IEEE 1528 (2013); IEC 62209-1; IEC 62209-2; FCC KDB 865664; FCC KDB 447498; IEEE C95.1; CENELEC EN 50360; CENELEC EN 50361; Australian Communications Authority (ACA) Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2014; RSS 102; EN 50566; EN 62311; EN 62479

[1] When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories.

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1[2]:

Rule Subpart/Technology	**Test Method**	**Maximum Frequency**
Unintentional Radiators Part 15B	ANSI C63.4:2014	40 GHz
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	40 GHz
Intentional Radiators Part 15C	ANSI C63.10:2013	40 GHz
U-NIII without DFS Intentional Radiators Part 15E	ANSI C63.10:2013	40 GHz
Commercial Mobile Services (FCC Licensed Radio Service Equipment) Parts 22 (cellular), 24, 25 (non-microwave), and 27	ANSI/TIA-603-D; TIA-102.CAAA-D	40 GHz
General Mobile Radio Services (FCC Licensed Radio Service Equipment) Parts 22 (non-cellular), 90 (non-microwave), 95, 97, and 101 (non-microwave)	ANSI/TIA-603-D; TIA-102.CAAA-D	40 GHz
Maritime and Aviation Radio Services Parts 80 and 87	ANSI/TIA-603-D	40 GHz
RF Exposure Devices Subject to SAR Requirements	IEEE Std 1528:2013	6 GHz

[2] 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.

Accredited Laboratory

A2LA has accredited

CELLTECH LABS INC.

Kelowna, British Columbia, Canada

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. 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 8 January 2009*).

Presented this 31st day of January 2017.

President and CEO
For the Accreditation Council
Certificate Number 2470.01
Valid to November 30, 2018

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