SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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ELECTRICAL

Valid To: August 31, 2018 Certificate Number: 4321.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical field tests:

Test(s):	**Test Method(s)[1]:**
Emissions	
Radiated and Conducted (*up to 40 GHz*)	CFR 47, FCC Part 15 Subpart B (using ANSI C63.4:2014); CFR 47, FCC Part 18 (using MP-5:1986); ICES-001; ICES-003; ICES-005; VCCI-V3 (*up to 6 GHz*); J55022; EN 55022, CISPR 22, AS/NZS CISPR 22, EN 55032, CISPR 32, AS/NZS CISPR 32
Harmonic Current Emissions	EN 61000-3-2, IEC 61000-3-2
Flicker	EN 61000-3-3, IEC 61000-3-3
Immunity	
Electrostatic Discharge (ESD)	EN 61000-4-2, IEC 61000-4-2
Radiated Immunity	EN 61000-4-3, IEC 61000-4-3
Electrical Fast Transient/Burst	EN 61000-4-4, IEC 61000-4-4
Surge	EN 61000-4-5, IEC 61000-4-5
Conducted Immunity	EN 61000-4-6, IEC 61000-4-6
Power Frequency Magnetic Field	EN 61000-4-8, IEC 61000-4-8

Test(s):	Test Method(s)[1]:
Immunity (*cont'd*)	
Voltage Dips and Interrupts	EN 61000-4-11, IEC 61000-4-11
Ring Wave	EN 61000-4-12, IEC 61000-4-12
Harmonics and Inter-harmonics	EN 61000-4-13, IEC 61000-4-13
Voltage Fluctuations	EN 61000-4-14, IEC 61000-4-14
Voltage Frequency Variations	EN 61000-4-28, IEC 61000-4-28
Voltage Dips, Short Interruptions and Voltage Variations on DC Input Power Port	EN 61000-4-29, IEC 61000-4-29
Generic or Product Specific EMC Standards	
Generic - Residential, Commercial and Light-industrial Environments	EN 61000-6-1, IEC 61000-6-1, EN 61000-6-3, IEC 61000-6-3
Generic - Industrial Environments	EN 61000-6-2, IEC 61000-6-2, EN 61000-6-4, IEC 61000-6-4
Measurement, Control and Laboratory	EN 61326-1, IEC 61326-1
Information Technology Equipment	EN 55022, EN 55024, CISPR 22, CISPR 24
Professional Audio/Visual	EN 55103-1, EN 55103-2
Sound and Television Broadcast Receivers	EN 55013, EN 55020, CISPR 13, CISPR 20
Multimedia Equipment	EN 55032, CISPR 32
Household Appliances	EN 55014-1, EN 55014-2, CISPR 14-1, CISPR 14-2
Alarm Systems	EN 50130-4
Lighting	EN 55015, EN 61547, CISPR 15, IEC 61547
UPS	EN 62040-2, IEC 62040-2
EMC for Radio Equipment and Services	ETSI EN 301 489-1 (*excluding section 9.6*); ETSI EN 301 489-3; ETSI EN 301 489-9; ETSI EN 301 489-17
Medical Electrical Equipment	EN 60601-1-2, IEC 60601-1-2

Test(s):	**Test Method(s)[1]:**
Radio Communications	
FCC	CFR 47, FCC Part 15 Subpart C (using ANSI C63.10:2013); CFR 47, FCC Part 15 Subpart E (using ANSI C63.10:2013); FCC KDB 905462 D02 (v01); CFR 47, FCC Part 20, Part 22 (cellular), Part 24, Part 27 (using ANSI/TIA-603-D; TIA-102.CAAA-D); KDB 971168 D01 Power Measurement License Digital System
Industry Canada	RSS-GEN, RSS-210, RSS-132, RSS-133, RSS-139, RSS-247, RSS-310; ANSI C63.26:2015
EN	ETSI EN 300 328; ETSI EN 302 291-1; ETSI EN 302 291-2; ETSI EN 302 502; ETSI EN 301 511; ETSI EN 301 893; ETSI EN 301 908-1; ETSI EN 301 908-2; ETSI EN 301 908-13
Australia / New Zealand	AS/NZS 4268
RF Exposure / Specific Absorption Rate (SAR)	
Specific Absorption Rate (SAR)	IEEE 1528:2013; FCC OET Bulletin 65 Supplement C; KDB 865664; KDB 447498; R102; IEC 62209-01; IEC 62209-2; EN 62209-1; EN 62209-2; EN 62311; EN 50385; EN 50383; EN 62479; EN 50364; EN 50566:2013; EN 50360

[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 revision 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	40 000 MHz
Industrial, Scientific, and Medical Equipment Part 18	FCC MP-5 (February 1986)	40 000 MHz
Intentional Radiators Part 15C	ANSI C63.10:2013	40 000 MHz
U-NIII without DFS Intentional Radiators Part 15E	ANSI C63.10:2013	40 000 MHz
U-NIII with DFS Intentional Radiators Part 15E	ANSI C63.10:2013; FCC KDB 905462 D02 (v01)	40 000 MHz
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	40 000 MHz
RF Exposure Devices Subject to SAR Requirements	IEEE Std 1528:2013	6 000 MHz

[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

EMTEK (SHENZHEN) CO., LTD.

Guangdong, People's Republic of China

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 July 2017.

President and CEO
For the Accreditation Council
Certificate Number 4321.01
Valid to August 31, 2018

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