



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GLOBAL EMC INC.¹
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ELECTRICAL

Valid to: May 31, 2013

Certificate Number: 2555.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electromagnetic compatibility and product safety testing:

Tests:

Standard(s):

Emissions

Radiated & Conducted
(*Unintentional Radiators*)

47 CFR FCC Part 15, Subpart B (using ANSI C63.4:2009);
47 CFR FCC Part 18 (using FCC MP-5);
ICES-001, ICES-003;
EN 55011; CISPR 11; AS/NZS CISPR 11;
CISPR 14-1 (*excluding measurements of clicks*);
EN 55014-1 (*excluding measurements of clicks*);
AS/NZS CISPR 14.1 (*excluding measurements of clicks*);
EN 55015; CISPR 15; AS/NZS CISPR 15;
EN 55022; CISPR 22; CAN/CSA-CEI/IEC CISPR 22;
AS/NZS CISPR 22;
CAN/CSA C108.6-M91;
VCCI – V2, V3/10.4 (Up to 6 GHz), V4;
CNS 13438 (Up to 6 GHz);
KN 11, KN 14, KN 15, KN 22

Republic of Korea Technical
Requirements for EMC

Technical Requirements for Electromagnetic Interference
(RRA Public Notification 2011-5, Jan 19, 2011);
Conformity Assessment Procedure for Electromagnetic Interference
(RRA Announce 2010-5, Dec 24, 2010)

Current Harmonics

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

Flicker and Fluctuations

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

Immunity

Electrostatic Discharge

IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2

Radiated Immunity

IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3

Tests:**Standard(s):*****Immunity (Cont'd)***

Electrical Fast Transient/Burst	IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4
Surge Immunity	IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5
Conducted Immunity	IEC 61000-4-6; EN 61000-4-6; KN 61000-4-6
Power Frequency Magnetic Field Immunity	IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8
Impulse Magnetic Field	IEC 61000-4-9; EN 61000-4-9; KN 61000-4-9
Voltage Dips, Short Interruptions, and Line Voltage Variations	IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11; IEC 61000-4-17; EN 61000-4-17; IEC 61000-4-29; EN 61000-4-29
Republic of Korea Technical Requirements for EMC	Technical Requirements for Electromagnetic Susceptibility (RRA Public Notification 2011-6, Jan 19, 2011); Conformity Assessment Procedure for Electromagnetic Susceptibility (RRA Announce 2010-6, Dec 24, 2010)

***Radio Tests /
Intentional Radiators
Up to 40 GHz
(Excluding SAR and DFS)***

47 CFR, FCC Part 15, Subparts C and E (using ANSI C63.4:2009);
ETSI EN 300 220-2;
ETSI EN 300 330-2;
ETSI EN 300 328;
ETSI EN 301 893;
ETSI EN 301 489-1, -2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -13, -14, -15,
-16, -17, -22, -27, -31;
RSS 210; AS/NZS 4268:2003;
LP0001; LP0002

Generic and Product Specific EMC Standards

Laboratory Equipment (Immunity)	IEC 61326-1; EN 61326-1
Medical Equipment (Emissions and Immunity)	IEC 60601-1-2; EN 60601-1-2; KN 60601-1-2
Alarm Systems (Immunity)	EN 50130-4; IEC/EN 50131-2-2
UPS / Audio / Lighting	IEC/EN 50091-2; IEC/EN 55103-1; IEC/EN 55103-2; IEC/EN 61547
Household Appliances	CISPR 14-2:1997 + A1:2001; EN 55014-2 + A1:2001

Tests:

Standard(s):

Generic and Product Specific EMC Standards (Cont'd)

ITE/Telecom (Immunity)	CISPR 24; EN 55024; AS/NZS CISPR 24; ETSI EN 300 386; KN 24 (RRA Announce 2010-6, Dec 24, 2010)
Residential, Commercial and Light Industrial Generic (Emissions and Immunity)	IEC 61000-6-3; EN 61000-6-3; IEC 61000-6-1; EN 61000-6-1
Industrial Generic (Emissions and Immunity)	IEC 61000-6-4; EN 61000-6-4; IEC 61000-6-2; EN 61000-6-2
Railway (Emissions and Immunity)	IEC/EN 50121-1; IEC/EN 50121-2; IEC/EN 50121-3-1; IEC/EN 50121-3-2; IEC/EN 50121-4; IEC/EN 50121-5
<i>Product Safety</i> <i>(Excluding: UV exposure and resistance to UV exposure, ionizing radiation, microwave radiation, high vacuum devices, sound pressure level, flammability/fire tests, softening temperature, vibration, implosion)</i>	UL/CSA IEC 60335-1; UL 1598/C22.2 No. 250; UL/CSA IEC 60950-1; UL/CSA IEC 60950-22; UL/CSA IEC 60601-1; UL/CSA IEC 60601-2; UL 22; UL 73; UL 197; UL 291; UL 294; UL 506; UL 508, 508A, 508C; UL 745; UL 778; UL 813; UL 859; UL 873; UL 935; UL 1012; UL 1017; UL 1028; UL 1088; UL 1097; UL 1236; UL 1310; UL 1411; UL 1419; UL 1431; UL 1492; UL 1561; UL 1563; UL 1573; UL 1574; UL 1585; UL 1778; UL 1838; UL 1993; UL 1995; UL/CSA IEC 61010-1; UL/CSA IEC 61010A-2-010; UL/CSA IEC 61010A-2-041; UL/CSA IEC 61010A-2-051; UL/CSA IEC 61010B-1; EN 60065-1; UL/CSA IEC 60065; IEC 60335-2; IEC 60825-1; IEC 60825-2; IEC 60825-14

On the following products or types of products:

Appliances, Industrial, Scientific, Medical (ISM), Information Technology Equipment (ITE), Intentional and Unintentional Radiators.

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

Global EMC Inc.
302 Town Center Blvd, Suite 100,
Markham, ON Canada, L3R OE8
(only for a specific customer)

Tests:

Standard(s):

Radio Tests

EN 301 390 V1.2.1; ETSI EN 302 326-2 V1.1.2, Part 2



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

GLOBAL EMC INC.

Richmond Hill, Ontario, 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 5th day of April 2011.



A handwritten signature in black ink, reading "Peter Abaya", written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2555.01
Valid to May 31, 2013

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