



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

COMPLIANCE MANAGEMENT GROUP (CMG)

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ELECTRICAL (EMC)

Valid to: May 31, 2013

Certificate Number: 2316.01

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

Test Technology:	Test Method(s):
Automotive EMC	
Electrostatic Discharge (ESD)	ISO 10605 (2001); SAE J1113-13; GMW 3097 Section 3.6; ES-XW7T-1A278-AB (CI-280); DC-10614; LP388C-42; DC-11224 (2007/06) Sections 10.1, 10.2;
Absorption Chamber (Up to 2 GHz, Level 1 (50 V/m) only)	ISO 11452-2; SAE J1113-21; ES-XW7T-1A278-AB (RI 114)
Bulk Current Injection (BCI) (Closed Loop & Substitution Methods)	ISO 11452-4 (2005); SAE J1113-4; GM 3097 Section 3.4.1 (<i>Substitution Method</i>); ES-XW7T-1A278-AB/AC (RI 112); DC-10614 Section 6.5; LP 388C-65; DC-11224 (2007/06) Section 7.2
Conducted Transient Disturbances (Power lines)	ISO 7637-2; SAE J1113-11
Conducted Transient Disturbances (Other than supply lines)	ISO 7637-3; SAE J1113-12

Test Technology:	Test Method(s):
Emissions	
Harmonic Current Emissions and Flicker	EN 61000-3-2; IEC 61000-3-2; AS/NZS 61000.3.2; EN 61000-3-3; IEC 61000-3-3; AS/NZS 61000.3.3
Immunity	KN 24; RRA Public Notification 2011-17 (July 5, 2011); RRA Announce 2010-6 (December 24, 2010)
Electrostatic Discharge (ESD)	IEC 61000-4-2; EN 61000-4-2; GR-1089-CORE (Section 2.1); AS/NZS 61000.4.2; KN 61000-4-2
Radiated Immunity	IEC 61000-4-3; EN 61000-4-3; AS/NZS 61000.4.3; GR-1089-CORE (Sections 3.3.1 and 3.5.5); KN 61000-4-3
Electrical Fast Transient (EFT)	IEC 61000-4-4; EN 61000-4-4; AS/NZS 61000.4.4 ; GR-1089-CORE (Section 2.2); KN 61000-4-4
Surge Immunity	IEC 61000-4-5; EN 61000-4-5; AS/NZS 61000.4.5; KN 61000-4-5
Conducted Immunity	IEC 61000-4-6; EN 61000-4-6; AS/NZS 61000.4.6 ; GR-1089-CORE (Section 3.5.6); KN 61000-4-6
Magnetic Fields Immunity	IEC 61000-4-8; EN 61000-4-8; AS/NZS 61000-4-8; KN 61000-4-8
Voltage Dip & Interrupt	IEC 61000-4-11; EN 61000-4-11; AS/NZS 61000.4-11; KN 61000-4-11; EN 300 132-2
Generic or Product Specific Standards	EN 50091-2; EN 55103-2; EN 61547; EN 61000-6-1; IEC 61000-6-1; EN 61000-6-2; IEC 61000-6-2; EN 55024; CISPR 24; AS/NZS CISPR 24; EN 62040-2; AS/NZS 61000.6.1; AS/NZS 61000.6.2 ; ETSI EN 300 386 V1.3.3; EN 55014-2; CISPR 14-2; EN 61326; IEC 61326; EN 60601-1-2; KN 24

<u>Test Technology:</u>	<u>Test Method(s):</u>
<i>Republic of Korea Radio Research Laboratory [RRL] List of Technical Regulations</i>	
Technical Requirements for Electromagnetic Susceptibility	RRA Public Notification 2011-17, July 5, 2011
Conformity Assessment Procedure for Electromagnetic Susceptibility	RRA Announce 2010-6, December 24, 2010
	<i>The specific test methods designated with the KN prefix are shown in the EMC Sections in this Scope of Accreditation.</i>
<i>Product Safety</i>	UL 60950-1 (excluding Sections 4.3.13, 4.17, Annex A, Annex H and Annex Y); CSA 22.2 60950-1 (excluding Sections 4.3.13, 4.17, Annex A, Annex H and Annex Y); EN 60950-1 (excluding Sections 4.3.13, 4.17, Annex A, Annex H and Annex Y); AS/NZS 60950.1 (excluding Sections 4.3.13, 4.17, Annex A, Annex H and Annex Y); EN 61010-1 (excluding Sections 11,12,13, and 14); GR-1089-CORE (Sections 7, 8 and 9, Except Section 9.12); EN 60601-1-1
<i>Acoustics</i>	ISO 7779; ETS 300-753; ISO 9614-2; GR-63-CORE

On the following products or types of products:

Light Industrial, Commercial, Residential, Heavy Industrial, Scientific, Medical, Portable Test and Measurement Equipment, Information Technology Equipment, Telecom and other Electrical and Electronic Equipment



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

COMPLIANCE MANAGEMENT GROUP (CMG)

Marlborough, MA

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 2nd day of November 2011.



A handwritten signature in black ink, reading "Peter Abaya".

President & CEO
For the Accreditation Council
Certificate Number 2316.01
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.