



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NEBRASKA CENTER FOR EXCELLENCE IN ELECTRONICS
4740 Discovery Drive
Lincoln, NE 68521-5376
Aaron Steggs Phone: 402.323.6233

ELECTRICAL (EMC)

Valid to: May 31, 2012

Certificate Number 1953.01

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

Test Technology:

Test Method(s):

Emissions

Radiated and Conducted
(up to 40 GHz)

CFR 47 FCC, Parts 15b (using ANSI C63.4:2009), 15c, 15e (excluding DFS), 18 (using MP-5), and 90 (using TIA/EIA 603-C); ANSI C63.10; ICES-001; ICES-002; ICES-003; RSS-GEN; RSS-119; RSS-123; RSS-210; CISPR 11; CISPR 12; CISPR 13; CISPR 14-1; CISPR 22; EN 55011; EN 55013; EN 55022; EN 55014-1; AS/NZS CISPR 22:2002; CNS 13438 (up to 6 GHz); CNS 14336; GB9254:1998, GB17625.1:2003; VCCI V-3 (up to 6 GHz); ETSI 300 328; ETSI 300 683 (excluding DFS) IEC 61000-3-2; EN 61000-3-2 IEC 61000-3-3; EN 61000-3-3 IATA DGR Section 3.9.2.2 and PI953; RTCA DO-160F, Section 15

Current Harmonics
Voltage Fluctuations & Flicker
Magnetic Fields*

Immunity

Electrostatic Discharge (ESD)
Radio Frequency, Radiated
(up to 3GHz, 10V/m)
Electrical Fast Transient /Burst
Surge Immunity
Radio Frequency, Conducted
Power Line Magnetic Field
Voltage Dips and Fluctuations

IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2
IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3
IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4
IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5
IEC 61000-4-6; EN 61000-4-6; KN 61000-4-6
IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8
IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11

Product Families

EN 55013 (CISPR 13): Sound and Television Broadcast Receivers and Associated Equipment

EN 55014-1/EN 55014-2 (CISPR 14-1/CISPR 14-2): Requirements for Household Appliances, Electronic Tools and Similar Apparatus

EN 55022: Information Technology Equipment

KN 22

EN 55024:1998: Information Technology Equipment

KN 24

EN/ISO 14982 (*emissions only*): Agricultural and Forestry Machinery

EN/ISO 13766 (*emissions only*): Earth-Moving Machinery

EN 50130-4: Immunity Requirements for Components of Fire, Intruder and Social Alarms

IEC 60601-1-2; EN 60601-1-2: Medical Electrical Equipment

IEC 61326-1; EN 61326-1: Electrical Equipment for Measurement, Control and Laboratory Use

IEC 61000-6-1; EN 61000-6-1: Generic Immunity for Residential, Commercial and Light Industrial

IEC 61000-6-2; EN 61000-6-2: Generic Immunity for Industrial Environments

IEC 61000-6-3; EN 61000-6-3: Generic Emissions for Residential, Commercial and Light Industrial

IEC 61000-6-4; EN 61000-6-4: Generic Emissions for Industrial Environments

ETSI 300 683: EMC Standard for SRD Operating on Frequencies Between 9 kHz and 25 GHz

ETSI 301 489-1, -17: EMC Standards for Radio Equipment and Services; Part 1: Common Technical Requirements

EAC Voluntary Voting System Guidelines (Dec. 31, 2005), Vol. 1 Section 4.1.2.4-12; Vol. 2 Section 8

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)

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)

* This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests.



World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

NEBRASKA CENTER FOR EXCELLENCE IN ELECTRONICS

Lincoln, NE

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 29th day of July 2010.





Peter Abney

President & CEO
For the Accreditation Council
Certificate Number 1953.01
Valid to May 31, 2012

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