



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

COMPLIANCE WORLDWIDE, INC.

Sandown, NH

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 30th day of January 2009.

A handwritten signature in black ink, appearing to read "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 1673.01
Valid to September 30, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

COMPLIANCE WORLDWIDE, INC.
357 Main Street
Sandown, NH 03873
Robert J. McCall Phone: 603 887 3903

ELECTRICAL (EMC)

Valid to: September 30, 2010

Certificate Number: 1673.01

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

Tests:

Standard(s):

Emissions

Radiated & Conducted

CFR 47, FCC Parts 15 (using ANSI/IEEE C63.4-2003); CISPR 22;
AS/NZS CISPR 22; EN 55022-1994 + A1-1995 + A2-1997; EN 55022-1998;
EN 55022:2006 + A1 :2007; ICES-003; AS/NZS 3548-1995; CNS 13438;
VCCI V-3/2009.04 (up to 6GHz); FCC Part 18 (using MP5); CISPR 11;
ICES-001;
CNS 13803; AS/NZS 2064.1/2; AS/NZS CISPR 11;
EN 55011-1998 + A1-1999 + A2-2002; EN 55011-2007;
CISPR 13 (*below 1 GHz only*);
EN 55013-1990 + A12-1994 + A13-1996 + A14-1999;
EN 55013-2001 + A1-2003 + A2-2006; CNS 13439; AS/NZS 1053;
AS/NZS CISPR 13; CISPR 14; CISPR 15; EN 55015 + A1 :2007 + A2 :2009;
EN 55014-1-2000 + A1-2001 + A2-2002;
EN 55014-1-2006AS/NZS 1044; TCVN 7189 :2002
CNS 13783; AS/NZS CISPR 14; MPT 1570; KN 22, (KCC Public
Notification 2008-39, May 19, 2008), (RRA Announce 2009-9, Dec. 21,
2009)

Current Harmonics

IEC 61000-3-2; EN 61000-3-2-1995 + A14-2000;
EN 61000-3-2-2000 + A2:2005; EN 61000-3-2:2006

Flicker

IEC 61000-3-3; EN 61000-3-3-1995 + A1-2001 +A2-2005;
EN 61000-3-3:2008

Intentional Radiators
(*excluding DFS*)

CFR 47, FCC Part 15 Subpart C, E & F (using ANSI/IEEE C63.4-2003);
IC RSS 210; IC RSS 220; FCC Part 95 (using ANSI/TIA-603B-2002);
AS/NZS 4268.1; AS/NZS 4268.2; EN 300 220-2; EN 300 220-3;
EN 300 330-1; EN 300 330-2; EN 300 422-2; EN 300 440-1; EN 300 440-2;
EN 300 328-2; ETS 300 826; EN 300 328; EN 302 288-1 ; EN 302 288-2;
AS/NZS 4268; AS/NZS 4771 ;HTKA 1035, 1039, 1042, 1049; IDA TS SRD;
RTTE01; LP0001, LP0002; RRL Notice No. 2007-20,
RRL Notice No. 2007-22; EN 301 893 (*excluding DFS*)
TCN 68-242:2006; TCN 68-243:2006; IDA TS UWB

Tests:

Standard(s):

Emissions (Cont'd)

Intentional Radiators
(excluding ISO 7637-1
and 7637-2 for Vehicular
Environment)

EN 300 339; EN 301 489-01; EN 301 489-03; EN 301 489-09;
ETS 300 445; ETS 300 683; EN 301 489-17 ; EN 301 489-32 ;
TCN 68-192 :2003

Immunity

KCC Public Notification 2008-38, May 19, 2008,
RRA Announce 2009-10, Dec. 21, 2009

Electrostatic Discharge (ESD) EN 61000-4-2; IEC 61000-4-2; KN 61000-4-2
Radiated Immunity EN 61000-4-3; IEC 61000-4-3; KN 61000-4-3
Electrical Fast Transient/Burst EN 61000-4-4; IEC 61000-4-4; KN 61000-4-4
Surge Immunity EN 61000-4-5; IEC 61000-4-5; KN 61000-4-5
Conducted Immunity EN 61000-4-6; IEC 61000-4-6; KN 61000-4-6
Power Frequency Magnetic
Field Immunity EN 61000-4-8; IEC 61000-4-8; KN 61000-4-8
Voltage Dips, Short Interruptions,
and Line Voltage Variations EN 61000-4-11; IEC 61000-4-11; KN 61000-4-11

Family Emissions & Immunity Standards

AS/NZS 4251.1; AS/NZS 4251.2; AS/NZS 62040.2; EN 50091-2-1995;
EN 55020:2002 + A1-2003; EN 55024-1998 + A1-2001 + A2-2002;
EN 50130-4-1995 + A1-1998 + A2-2003; EN 55103-1-1996;
EN 55103-2-1996; EN 55014-2-1997 + A1-2001; EN/IEC 60601-1-2-;
EN 60945-1997 (Clauses 9 & 10); EN 60945-2002 (Clauses 9 & 10);
EN 61000-6-1; EN 61000-6-2; EN 61000-6-3; EN 61000-6-4;
EN 61326-1-1997 + A1-1998 + A2-2001; EN 61326-1 :2006 ; EN 300 386;
EN 300 386-2 V1.1.3; IDA TS EMC (Singapore); EN 61326;
EN 61547 + A1:2000 ; TCN 68-196 :2001

Telecommunications

Analog

Analog Interfacing: ACA: TS 002; AS/ACIF S002;
General Requirements: TIA-968-A; TIA-968-A-1; TIA-968-A-2;
TIA-968-A-3; TIA-968-A-4; TIA-968-A-5; TIA-968B
TIA/EIA TSB-31B 1998; JATE Blue Book; IC: CS-03; TIA/EIA IS-883;
AS/ACIF S040; ETSI TBR 21 (EG 201 121, ETSI TR 103 000-3,
ES 203 021-1, -2, -3); PSTN01;
PTC 200; PTC 220; MIC Notice 2004-105; TCN 68-188:2000
Hearing Aid Compatibility: FCC Part 68; ANSI TIA 470B; IEEE 269-1992;
TSB 31B Section 12;
Non-Switched Telephone Network: ACA: TS 006; AS/ACIF S006;
HKTA 2023; TE-009;
Public Switched Telephone Network: IDA TS PSTN1; ETSI TBR: 38;
DPT-TE-001;
Switching Systems: ACA: TS 003; AS/ACIF S003;
Voice Frequency Performance: ACA: TS 004; AS/ACIF S004

Tests:

Standard(s):

Telecommunications (Cont'd)

Integrated Service Digital Network (ISDN)	Basic Rate Access: ETSI TBR 3; AS/ACIF S031; PTC 107;
Network (ISDN)	General Requirements: JATE Green Book; IC CS-03; TIA-968-A; TIA-968-A-1; TIA-968-A-2, A-3; TIA/EIA TSB-31B 1998; IS 6100; Primary Rate Access: ETSI TBR 4; AS/ACIF S038; IDA TS ISDN-BA TCN 68-189:2000
T1/DS1	General Requirements: JATE Green Book; IC CS-03; TIA-968-A; TIA-968-A-1; TIA-968-A-2; TIA-968-A-3; TIA/EIA TSB-31B 1998; HKTA 2017; ID 0002-1; IDA TS ADSL
Digital Lease Line	General Requirements: ACA: TS 016; AS/ACIF S016; ETSI TBR 12; ETSI TBR 13; ETSI TBR 24; ETSI TBR 25; HKTA 2028; HKTA 2029; IDA TS DLCN 1; TNA 115; TNA 119; TNA 120; MIC Notice 2004-15
Digital Subscriber Loop (DSL)	General Requirements: JATE Green Book; IC CS-03; TIA-968-A; TIA/EIA TSB-31B 1998; AS/ACIF S043.1; AS/ACIF S043.2; AS/ACIF S043.3; SHDSL; HDSL2 and HDSL4; TIA/EIA T1.TRQ.6-2001
Serial Interface	General Requirements: ETSI TBR: 1; ETSI TBR: 2; ETSI EN 301 401; HKTA 2030; HKTA 2031; ITU-T V.10 (unbalanced); ITU-T V.11 (balanced); ITU-T V.12 (balanced); ITU-T V.28 (unbalanced); ITU-T V.35; ITU-T V.36; ITU-T X.21 (ITU-T X.21 bis); ITU-T X.25

On the following products or types of products:

Industrial, Scientific, and Medical (ISM) Equipment; Information Technology Equipment (ITE); Household Appliances; Portable Tools; Medical Equipment; Telecommunications Equipment; IT Equipment; Electronic (Digital) Products; and Professional Audio and Video Broadcasting Equipment.

Note: For standards or methods listed on the scope of accreditation with a revision date, laboratories are expected to be competent in the use of the current version within one year of the date of publication of the standard test method. When a superseded standard or method is required for an accredited test, the scope will include the superseded date/version.