



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

F-SQUARED LABORATORIES  
16740 Peters Road  
Middlefield, OH 44062  
Wendy Fuster Phone: 301 253 4500

ELECTRICAL (EMC)

Valid to: July 31, 2011

Certificate Number: 0793.02

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

**Tests (Parameters):**

**Standard(s):**

*Emissions*

(Conducted – 9 kHz to 30 MHz;  
Radiated – 9 kHz to 18GHz;  
3m / 10m site)

CFR 47, FCC Part 15 Subpart B using ANSI C63.4-2003;  
FCC Part 18 (using MP-5); EN 50081-1; EN 55011;  
EN 55022 (up to 1GHz); AS/NZS 3548; ICES-003;  
EN 60601-1-2; CNS 13438:2006; EN 61326;  
EN 61000-6-3; EN 61000-6-4;  
KN 22 (up to 1 GHz);  
KCC Notice No. 2008-39: Technical Requirements for  
Electromagnetic Interference, Annex 8;  
RRA Announce 2008-11, December 16, 2008: Conformity  
Assessment Procedure for Electromagnetic Interference

Current Harmonics

EN 61000-3-2

Voltage Fluctuations & Flicker

EN 61000-3-3

*Immunity*

KCC Notice No. 2008-38: Technical Requirements for  
Electromagnetic Susceptibility, Annex 1-7;  
RRA Announce 2008-11, December 16, 2008: Conformity  
Assessment Procedure for Electromagnetic Susceptibility

Electrostatic Discharge (ESD)  
(200V to 16.5 kV, Air;  
200V to 8.8kV, Contact)

EN 61000-4-2; IEC 61000-4-2; EN 60601-1-2;  
EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;  
KN 61000-4-2

Radiated Immunity  
(30 MHz to 2.5 GHz, 3 V/m;  
80 MHz to 2.5 GHz, 10 V/m)

EN 61000-4-3; IEC 61000-4-3; EN 60601-1-2;  
EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;  
KN 61000-4-3

Electrical Fast Transient/Burst  
(200V to 4.4 kV max)

EN 61000-4-4; IEC 61000-4-4; EN 60601-1-2;  
EN 61000-6-1; EN 61000-6-2; EN 55024; EN 61326;  
KN 61000-4-4

**Tests (Parameters):**

Surge Immunity  
(200 V to 4.4 kV max;  
100 A to 2.2. kA)  
Conducted Immunity  
(150 kHz to 230 MHz/Vrms)

Power Frequency Magnetic Field  
Immunity  
(0.1 to 40 A/M @ 50/60 Hz)

Voltage Dips, Short Interruptions,  
and Line Voltage Variations  
(Power Quality Test)

**Standard(s):**

EN 61000-4-5; IEC 61000-4-5; EN 60601-1-2;  
EN 61326; EN 61000-6-1; EN 61000-6-2; EN 55024;  
KN 61000-4-5  
EN 61000-4-6; IEC 61000-4-6;  
EN 61326; EN 61000-6-1; EN 61000-6-2; EN 55024;  
EN 60601-1-2; KN 61000-4-6

EN 61000-4-8; IEC 61000-4-8;  
EN 61000-6-1 (*excluding CRT*); EN 61000-6-2 (*excluding CRT*);  
EN 55024; EN 60601-1-2; KN 61000-4-8

EN 61000-4-11; IEC 61000-4-11; EN 61326; EN 61000-6-1;  
EN 61000-6-2; EN 55024; EN 60601-1-2; KN 61000-4-11

**On the following types of products/equipment:**

Information Technology Equipment (ITE); Scientific Equipment; Industrial Equipment; Test & Measurement Equipment; Lighting Equipment; Household Appliances / Electric Tools; Audio / Video Equipment; Medical Equipment; Electrical Control Equipment; and Electrical Laboratory Equipment.



The American Association for Laboratory Accreditation

World Class Accreditation

# Accredited Laboratory

A2LA has accredited

## F-SQUARED LABORATORIES

*Middlefield, OH*

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 22nd day of December 2009.



  
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Peter Abney

President & CEO  
For the Accreditation Council  
Certificate Number 0793.02  
Valid to July 31, 2011

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