

# **EXHIBIT VI.**

## **Supplemental Test Report**

**New Certification of Previously Certified OEM Module**

**FCC ID: KBCIX260AC750-MPI**

**IX260 with Integrated Compact Flash WLAN**

Certification Under Title 47 CFR, Part 15.247

Prepared On Behalf Of

**ITRONIX, Corporation**

South 801 Stevens St.  
Spokane, WA 99204

Prepared

By

Spectrum Technology, Inc.  
209 Dayton Street, Suite 205  
Edmonds, WA 98020  
425 771-4482

November 26, 2002

Exhibit VI

## Supplemental Test Report

### TABLE OF CONTENTS

Cover Page	1
Table Of Contents	2
Exhibit 6 – Conducted RF Power Output Part 15.247 (b) & Equivalent Isotropic Radiated Power	3
Exhibit 6 – Radiated Harmonics and Spurious Emissions & Radiated Field Strength For Three Channels	4

**Note:** Please refer to the original Certification exhibits for all of the original test report data for the following Cisco Systems, Inc., Intentional Radiator referenced herein:

- 1.) **FCC ID: LDK102042**, IEEE 802.11(b), WLAN Compact Flash Card, Model: MPI-350 Series

**EXHIBIT 6A TEST: CONDUCTED RF POWER OUTPUT**

FCC ID: KBCIX260AC750-MPI

Applicant: ITRONIX, Corporation

Model: IX260 with MPI350 WLAN

Minimum Standard Specified: Part 15.247(b)(1) is 1 Watt for DSSS

Test Results: The measured output power level shows compliance with the above limit and the power granted for the OEM module.

Authorization Procedure: Part 2.1046

Maximum Conducted Power Output: 21.2 dBm

**Method of Measurement:**

1. The output power levels above had been preset during production for this model.
2. The peak output power was measured by Celltech with a Gigatronics 8652A Universal Power Meter (S/N: 1835272). The measured channels cover the low, middle and top of the operational frequency range previously approved for this Intentional Radiator of 2412 – 2462 MHz.
4. Both antenna ports were measured, the results below were the maximum level measured.

**Tabular Results of Conducted RF Output Power and EIRP**

WLAN		Rangestar Antenna P/N 100929		
Serial No: VMS06180144				
Frequency GHz	Power dBm	Cable loss	Ant. Gain dBi	EIRP
2.412	21.2	-inc-	4.5	<b>25.7</b> * <i>max.</i>
2.437	21.1	-inc-	4.5	25.6
2.462	21.1	-inc-	4.5	25.6

The maximum WLAN EIRP is 25.7 dBm with the Rangestar Antenna, P/N 100929, peak antenna gain of 4.5 dBi.

**EXHIBIT 6G TEST: RADIATED HARMONICS AND SPURIOUS EMISSIONS**

FCC ID: KBCIX260AC750-MPI  
 Applicant: ITRONIX, Corporation  
 Model: IX260 with MPI350 WLAN  
 Minimum Standard Specified: Part 15.247(c), 15.205 & 15.209(a)  
 Test Results: Equipment complies with standard  
 Authorization Procedure: Part 2.1053  
 Test Equipment Set Up: See Block Diagram in Exhibit 7  
 Frequency Range Observed: 0 to 25 GHz  
 Operating Frequencies **WLAN**: 2412, 2437, & 2462 MHz (2412 – 2462 MHz band)

**Radiated Field Strength For Three Channels and Related Harmonics and Spurious**

<b>WLAN</b> Frequency in GHz	Ant. Vert/ Horz	Spectrum Analyzer Reading dBuV	+ Ant Factor	- Amp Gain	+ Cable Loss	= dBuV/m @ 3 meters	or uV/m @ 3 meters
Ch. 1 Low 2.412	V	83.17	28.37	0	1.33	112.87	440047.94
Ch. 6 Mid 2.437	V	83.50	28.37	0	1.33	113.20	457088.18
Ch.11 High 2.462	V	83.83	28.37	0	1.33	113.53	474788.29

<b>WLAN</b>	Frequency in GHz	Harmonics observed	Limit 74 dBuV/m Peak & 54 dBuV/m Average
<b>Ch. 1 -Low Fo</b>	2.412		
<b>2Fo - 10Fo</b>	4.824 – 24.120	None, At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m
<b>Ch. 6 -Mid Fo</b>	2.437		
<b>2Fo – 10Fo</b>	4.874 – 24.370	None, At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m
<b>Ch. 11 -High Fo</b>	2.462		
<b>2Fo - 10Fo</b>	4.924 – 24.620	None, At or < noise floor @3m	All emissions < 54 dBuV/m or 500 uV/m

**All harmonic and spurious emissions were below the limit.** 2Fo and 3Fo were measurable during preliminary measurements at 1.0 meter with 100 kHz RBW only, but not at 3 meters with 1 MHz RBW. A HP preamplifier with over 20 dB of gain was used during the measurements of the harmonics. A high pass filter was used to reduce the fundamental signal and avoid the possibility of overloading the front end of the analyzer when using the preamp.

- Test Notes:**
- 1.) All harmonics in the restricted bands listed in Part 15.205 are below the Part 15.209(a) limit.
  - 2.) No peak emissions above 1 GHz are more than 20 dB above the average limit.
  - 3.) Peak measurements made with 1 MHz RBW & VBW, Average made with 1MHz RBW & 10 Hz VBW.
  - 4.) One set of measurements was made for each antenna. The highest levels reported above were emanating from the right antenna port.