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**Cirronet  
FCC Part 15, Certification Application  
WIT2410G Spread Spectrum Transceiver**

**UST Project: 05-0311  
Issue Date: March 16, 2006**

**3505 Francis Circle Alpharetta, GA 30004  
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I certify that I am authorized to sign for the manufacturer and that all of the statements in this report and in the Exhibits attached hereto are true and correct to the best of my knowledge and belief:

**UNITED STATES TECHNOLOGIES, INC. (AGENT RESPONSIBLE FOR TEST):**

By:                     

Name: Louis A. Feudi

Title: Operations Manager

Date: March 16, 2006

**Cirronet Corporation  
5375 Oakbrook Parkway  
Norcross, GA 30093**

By:

Name:

Title:

Date:

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## MEASUREMENT/TECHNICAL REPORT

COMPANY NAME: Cirronet

MODEL: WIT2410G

FCC ID: HSW-2410G

DATE: March 16, 2006

This report concerns (check one): Original grant ☒ X  
Class II change ☐ \_\_\_\_\_

Equipment type: 2.4 GHz Spread Spectrum TransceiverDeferred grant requested per 47 CFR 0.457(d)(1)(ii)? yes ☐ No ☒ XIf yes, defer until: \_\_\_\_\_  
dateN.A. agrees to notify the Commission by N.A.  
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Report prepared by:

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# SECTION 1

## GENERAL INFORMATION

## GENERAL INFORMATION

### 1.1 Product Description

The Equipment Under Test (EUT) is a Cirronet, Model WIT2410G modular 2.4 GHz spread spectrum transceiver. The EUT will be used with one of 15 different antennas.

## **1.2 Related Submittal(s)/Grant(s)**

The EUT will be used to send/receive data. The transceiver presented in this report will be used with other like transceivers:

The EUT is subject to the following authorizations:

- a) Certification as a transceiver (modular approval)
- b) Verification as a digital device

The information contained in this report is presented for the certification & verification authorization(s) for the EUT. The manufacturer desires to seek a modular approval on this device.



# SECTION 2

## TESTS AND MEASUREMENTS

## **TEST AND MEASUREMENTS**

### **2.1 Configuration of Tested System**

The sample was tested per ANSI C63.4, Methods of Measurement from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (1992). Conducted and radiated emissions data were taken with the test receiver or spectrum analyzer's resolution bandwidth adjusted to 9 kHz and 120 kHz, respectively. All measurements are peak unless stated otherwise. The video filter associated with the spectrum analyzer was off throughout the evaluation process. Block diagrams of the tested systems are shown in Figures 1a and 16. Test configuration photographs for spurious and fundamental emissions are shown in Figure 2a -g.

The sample used for testing was received by U.S. Technologies on February 8, 2006 in good condition.

### **2.2 Test Facility**

Testing was performed at US Tech's measurement facility at 3505 Francis Circle, Alpharetta, GA. This site has been fully described and submitted to the FCC, and accepted in their letter marked 31040/SIT. Additionally this site has also been fully described and submitted to Industry Canada (IC), and has been approved under file number IC2982.

### **2.3 Test Equipment**

Table 2 describes test equipment used to evaluate this product.

### **2.4 Modifications**

No modifications were made by US Tech, to bring the EUT into compliance with FCC Part 15, Class B Limits for the transmitter portion of the EUT or the Class B Digital Device Requirements.

**FIGURE 1a**  
**TEST CONFIGURATION**  
(Dipole Antenna)

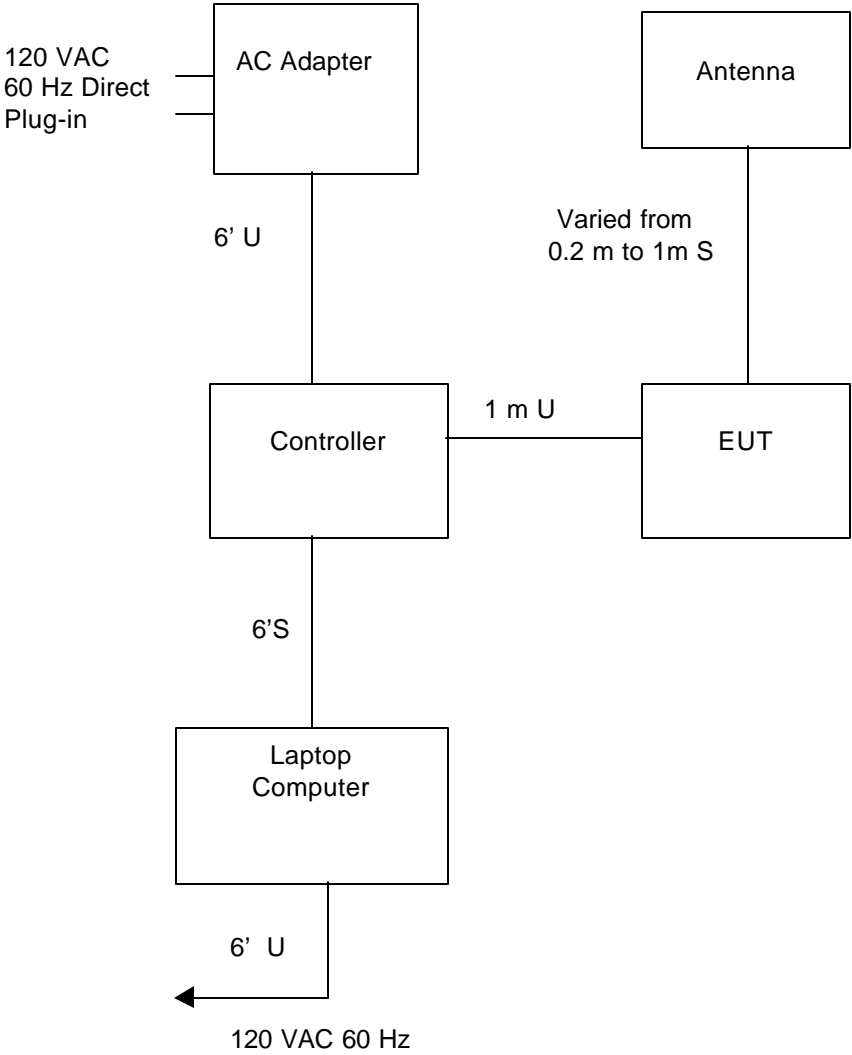


TABLE 1

**Test Date:** 12/21/05, 02/26/06, & March 6, 2006  
**UST Project:** 05-0311  
**Customer:** Cirronet  
**Model:** WIT2410G

EUT and Peripherals

PERIPHERAL MANU.	MODEL NUMBER	SERIAL NUMBER	FCC ID:	CABLES P/D
(EUT) Cirronet	WIT2410G	008517	HSW-2410G	1 m U
Antenna Various, see antenna descriptions			None	Varied from 0.2 to 1 m S
AC Adapter Volgen	SPU10R-1	None	None	6' U 120 VAC/ 60 Hz Direct Plug-in
Controller Cirronet	None	None	None	6' S
Laptop Computer Compaq	Armada 7400	7908BXL2036	Not Visable	6' U 120 VAC/ 60 Hz Power Cord