



# PCTEST ENGINEERING LABORATORY, INC.

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<http://www.pctestlab.com>



## CERTIFICATE OF COMPLIANCE FCC PART 15.247 Certification

**Applicant Name:**

WebTech Wireless Inc.  
#215 – 4299 Canada Way  
Burnaby, BC Canada  
V5G 1H3

**Date of Testing:**

August 21 - 25, 2006

**Test Site/Location:**

PCTEST Lab, Columbia, MD, USA

**Test Report Serial No.:**

0607140610

**FCC ID:**

UCR-EZWFM1101

**APPLICANT:**

WebTech Wireless Inc.

**Model(s):**

EZWFM11-01

**EUT Type:**

WLAN/GPS Locator

**Max. RF Output Power:**

17.63 dBm Conducted (b)

17.26 dBm Conducted (g)

**Frequency Range:**

2412 - 2462 MHz (DSSS/OFDM)

**FCC Classification:**

Digital Transmission System (DTS)

**FCC Rule Part(s):**

Part 15.247

**Test Device Serial No.:**

N/A

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63.4-2003.



I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

*Grant Conditions: Listed output power is conducted.*

*PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.*



  
Randy Ortanez  
President



FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 1 of 37

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## MEASUREMENT REPORT



### FCC Part 15.247

#### A. § 2.1033 General Information



**APPLICANT:** WebTech Wireless Inc.  
**APPLICANT ADDRESS:** #215 – 4299 Canada Way  
 Burnaby, BC Canada, V5G 1H3  
**TEST SITE:** PCTEST ENGINEERING LABORATORY, INC.  
**TEST SITE ADDRESS:** 6660-B Dobbin Road, Columbia, MD 21045 USA  
**FCC RULE PART(S):** Part 15.247  
**MODEL NAME:** EZWFM11-01  
**FCC ID:** UCR-EZWFM1101  
**Test Device Serial No.:** N/A ☐ Production ☒ Pre-Production ☐ Engineering  
**FCC CLASSIFICATION:** Digital Transmission System (DTS)  
**DATE(S) OF TEST:** August 21 - 25, 2006  
**TEST REPORT S/N:** 0607140610

#### A.1 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

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## 1.0 INTRODUCTION

### 1.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) and FCC Public Notice dated July 12, 1995 entitled "Guidance on Measurement for Direct Sequence Spread Spectrum System" were used in the measurement of the **WebTech WLAN/GPS Locator FCC ID: UCR-EZWFM1101**.

Deviation from measurement procedure.....**NONE**

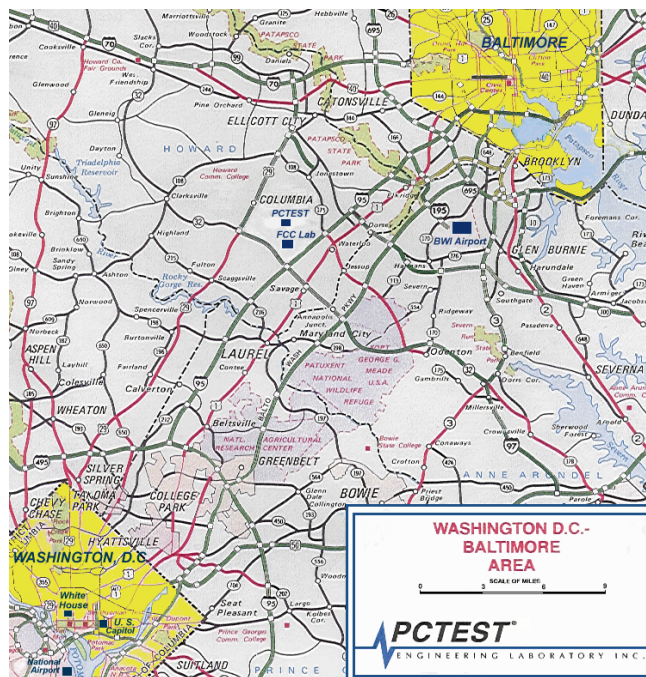
### 1.2 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.



### 1.3 PCTEST Test Location

The map at the right shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity are, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1.3-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.



**Figure 1.3-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area**

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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **WebTech WLAN/GPS Locator FCC ID: UCR-EZWFM1101**. The EUT consisted of the following component(s):



Manufacturer / Description	FCC ID	Serial Number
WebTech WLAN/GPS Locator	UCR-EZWFM1101	N/A

Table 2-1. EUT Equipment Description

### 2.2 EMI Suppression Device(s)/Modifications

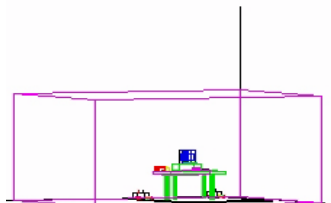
EMI suppression device(s) added and/or modifications made during testing.

- None

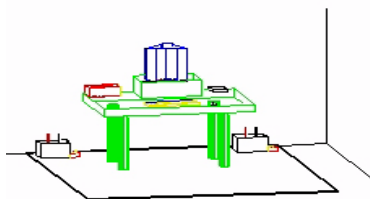
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## 3.0 DESCRIPTION OF TEST

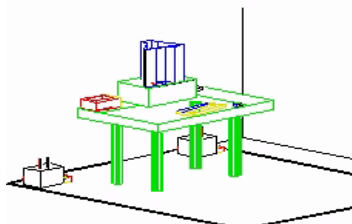
### 3.1 Conducted Emissions



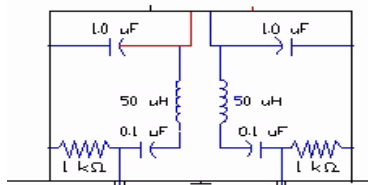
**Figure 3.1-1. Shielded Enclosure Line-Conducted Test Facility**



**Figure 3.1-2. Line Conducted Emission Test Set-Up**





**Figure 3.1-3. Wooden Table & Bonded LISNs**



**Figure 3.1-4. LISN Schematic Diagram**

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see Figure 3.1-1). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see Figure 3.1-2). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (See Figure 3.1-3). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filter (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of ½". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (See Figure 3.1-4). All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The frequencies producing the maximum level were re-examined using an EMI/Field Intensity Meter and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H patter to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit B. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Analog Signal Generator.

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## 3.2 Radiated Emissions

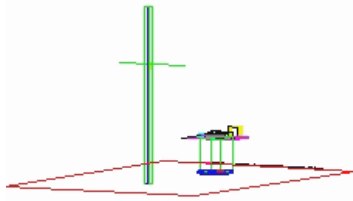


Figure 3.2-1. 3-Meter Test Site

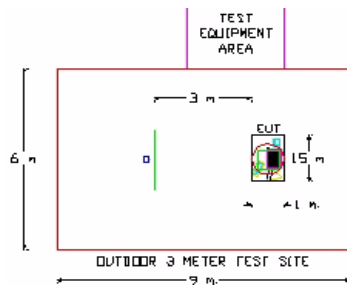


Figure 3.2-2. Dimensions of Outdoor Test Site

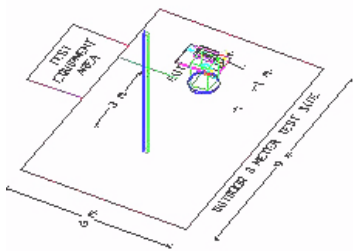


Figure 3.2-3. Turntable and System Setup

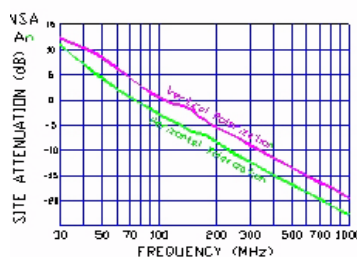




Figure 3.2-4. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1-meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, and turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using a bi-conical antenna and from 200 to 1000 MHz using a log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts<sup>TM</sup> Dipole antennas or horn antennas (see Figure 3.2-1). The test equipment was placed on a wooden and plastic bench situated on a 1.5m x 2m area adjacent to the measurement area (see Figure 3.2-2). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter and Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100kHz or 1MHz depending on the frequency or type of signal. Above 1GHz the detector function was set to CISPR average mode (RBW = 1MHz, VBW = 10Hz).

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 3.2-3). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in Exhibit B. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Analog Signal Generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3.2-4.

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## 4.0 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”



- The 5dBi antenna(s) of the WLAN/GPS Locator are **connected via reverse SMA connector**.
- This connection qualifies as a unique coupler.

### Conclusion:

The **WebTech WLAN/GPS Locator FCC ID: UCR-EZWFM1101** unit complies with the requirement of §15.203.

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

Table 4.1 Frequency/ Channel Operations

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## 5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

TYPE	MODEL	CAL. DUE DATE	CAL. INTERVAL	SERIAL No.
Microwave Spectrum Analyzer	Agilent E4448A (3Hz-50GHz)	09/19/06	Annual	US42510244
Spectrum Analyzer	HP 8566B (100Hz-22GHz)	12/22/06	Annual	3638A08713
PSG Analog Signal Generator	Agilent E8257D (250kHz-20GHz)	02/11/07	Annual	MY45470194
Universal Power Meter	Gigatronics 8651A (50MHz-18GHz)	07/28/07	Annual	1834052
Power Sensor	Gigatronics 80701A	04/11/07	Annual	1833460
Quasi-Peak Adapter	HP 85650A	12/22/06	Annual	2043A00301
Preamplifier	HP 8449B (1-26.5GHz)	12/22/06	Annual	3008A00985
Attenuation/Switch Driver	HP 11713A	12/22/06	Annual	N/A
Preselector	HP 85685A (20Hz-2GHz)	12/22/06	Annual	N/A
6dB Resolution Bandwidth Spectrum Analyzer Display	OPT 462	12/22/06	Annual	3701A22204
Ailtech/Eaton Adapter	CCA-7 CISPR/ANSI QP Adapter	12/19/06	Annual	0194-04082
Ailtech/Eaton Receiver	NM 37/57A (30MHz – 1GHz)	06/07/07	Annual	0805-03334
Horn Antenna	EMCO Model 3115 (1-18GHz)	08/25/07	Bi-Annual	9704-5182
Horn Antenna	EMCO Model 3116 (18-40GHz)	08/25/07	Bi-Annual	9203-2178
Roberts Dipoles	Compliance Design (1 set) A100	08/31/07	Bi-Annual	5118
EMCO Dipoles (2)	N/A	05/08/08	Bi-Annual	00023951
SOLAR LISN (2)	8012-50	11/18/07	Bi-Annual	0313233, 0310234
Microwave Cables	MicroCoax (1.0-26.5GHz)	02/26/07	Annual	N/A

**Table 5-1. Annual Test Equipment Calibration Schedule**

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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## 6.0 TEST RESULTS

### Summary

The intentional radiator has been tested in a simulated typical installation to demonstrate compliance with the relevant FCC performance and procedural standards. The radio was transmitting at full power on the specified channels and at a data rate(s) specified above. The channels tested are high, middle and low of the allocated bands. Final system data was gathered in a mode that tended to maximize emissions by varying the orientation of the EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization. This unit was tested with all possible data rate and transmission mode combinations and the worst case is reported with the unit transmitting at 1 Mbps in "b" mode.



Method/System: Digital Transmission System (DTS)

Data Rate(s) Tested: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b)

6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (g)

FCC Part Section(s)	RSS 210 Section	Test Description	Test Limit	Test Condition	Test Result
<b>TRANSMITTER MODE (TX)</b>					
15.247(a)(2)	RSS-210 [A8.2 (1)]	6dB Bandwidth	> 500kHz	Conducted	PASS
15.247(b)(3)	RSS-210 [A8.4 (4)]	Transmitter Output Power	< 1 Watt		PASS
15.247(e)	RSS-210 [A8.2 (2)]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS
15.247(d)	RSS-210 [A8.5]	Occupied Band Width Out-of-Band Emissions (Band Width at 20dB below)	Radiated <20dBc. Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated (30MHz-1GHz) (1-25 GHz)	PASS
15.205 15.209	RSS-210 [A8.5]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS
15.207	RSS-Gen [7.2.2]	AC Conducted Emissions 150kHz – 30MHz	EN55022	Line Conducted	PASS
<b>RECEIVER MODE (RX)</b>					
15.207	RSS-Gen [7.2.2]	AC Conducted Emissions 150kHz – 30MHz	Class B = 250µV	Line Conducted	PASS
15.209	RSS-Gen [7.2.3.2]	General Field Strength Limits (Restricted Bands and Radiated Emissions Limits)	< FCC 15.209 limits or < RSS-210 table 3 limits	Radiated (30MHz-1GHz) (1-25 GHz)	PASS
<b>RF EXPOSURE (SAR or MPE)</b>					
2.1093/2.1091	RSS-102	SAR Test or MPE	1.6 W/kg (SAR) 1 mW/cm <sup>2</sup> (MPE)	3 Channels	PASS

Table 6-1. Summary of Test Results

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)			Reviewed by: Quality Manager
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## 6.1 6dB Bandwidth Measurement – 802.11b/g

### §15.247(a)(2); RSS-210(A8.2 (1))

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies. **The minimum permissible 6dB bandwidth is 500 kHz.**

The spectrum analyzer is set to:

RBW = 100 kHz (5 dB/div – 802.11b; 10 dB/div – 802.11g)  
 VBW = 100 kHz  
 Span = 20 MHz (802.11b/g)  
 Ref. Level = Please See Plots  
 Sweep = 7.64 ms (802.11b/g)

Frequency [MHz]	Channel No.	Mode	6dB Bandwidth Test Results	
			[MHz]	Pass/Fail
2412	1	802.11b	12.13	Pass
2437	6	802.11b	12.13	Pass
2462	11	802.11b	12.67	Pass
2412	1	802.11g	16.27	Pass
2437	6	802.11g	16.00	Pass
2462	11	802.11g	15.97	Pass

Table 6-2. Conducted Bandwidth Measurements

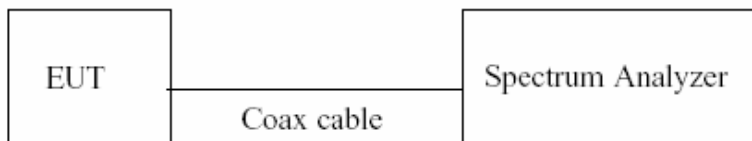


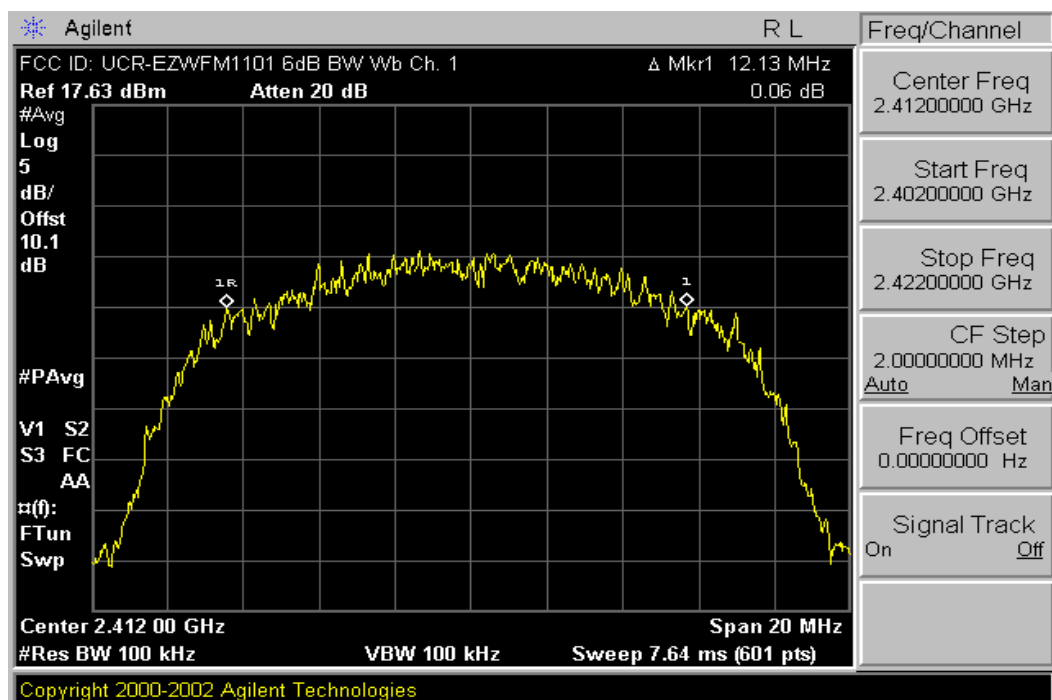
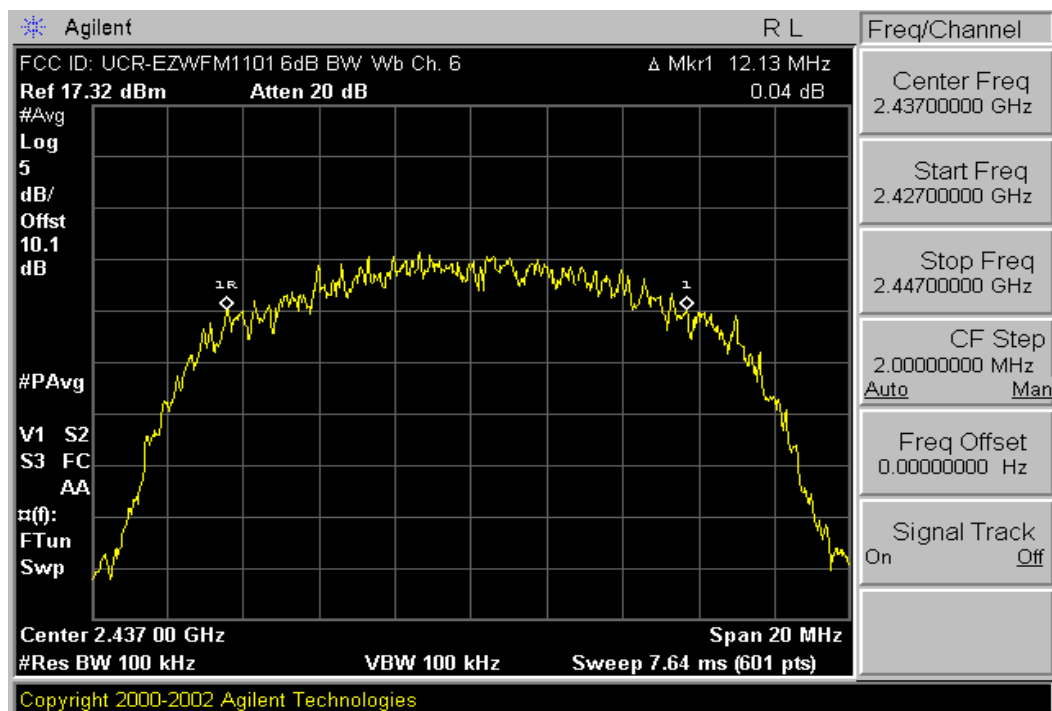


Figure 6-1. Test Instrument & Measurement Setup



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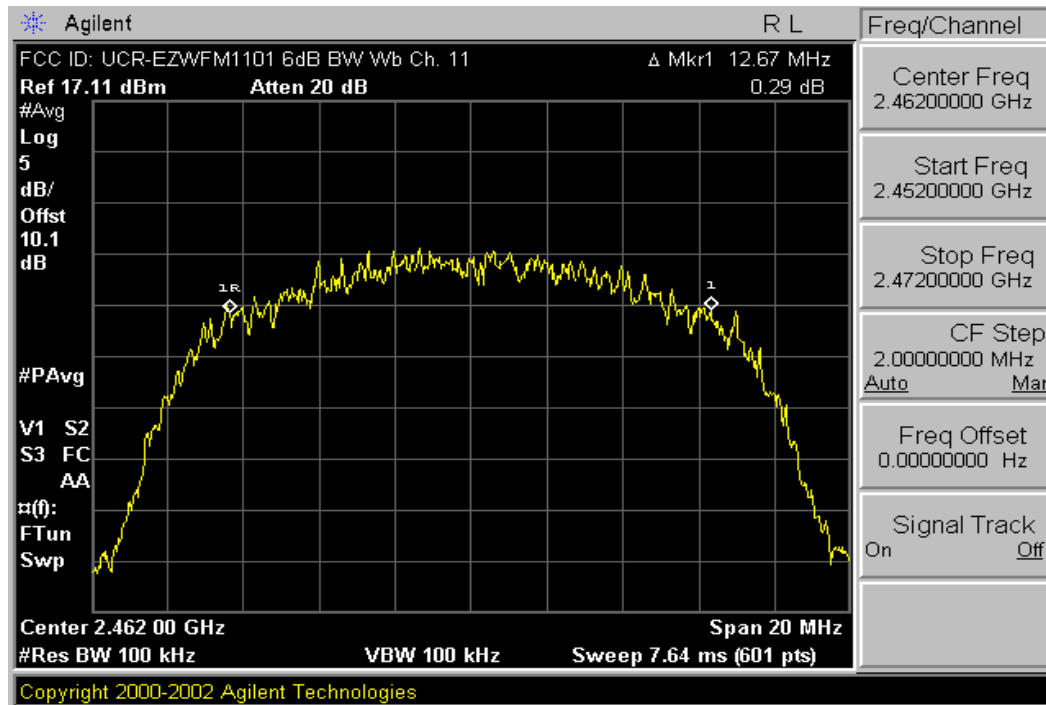


Plot 6-1. 6dB Bandwidth Plot (802.11b – Ch. 1)



Plot 6-2. 6dB Bandwidth Plot (802.11b – Ch. 6)



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Plot 6-3. 6dB Bandwidth Plot (802.11b – Ch. 11)

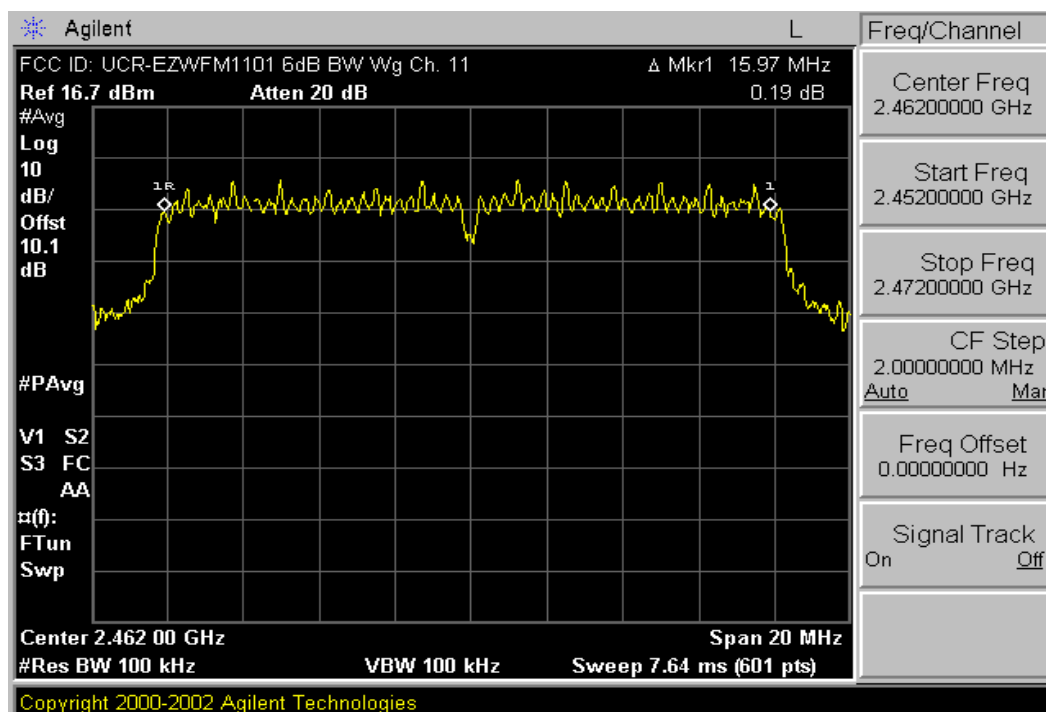


Plot 6-4. 6dB Bandwidth Plot (802.11g – Ch. 1)



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Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 13 of 37



Plot 6-5. 6dB Bandwidth Plot (802.11g - Ch. 6)



Plot 6-6. 6dB Bandwidth Plot (802.11g - Ch. 11)

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 14 of 37



## 6.2 Output Power Measurement – 802.11b

### §15.247(b)(3); RSS-210(A8.4 (4))

A transmitter antenna terminal of EUT is connected to the input of a RF power sensor. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible conducted output power is 1 Watt.**

Freq [MHz]	Channel	Data Rate [Mbps]	Main Ant. Measured Power [dBm]
2412	1	1	17.55
		2	17.53
		5.5	<b>17.63</b>
		11	17.57
2437	6	1	17.27
		2	17.23
		5.5	17.32
		11	17.27
2462	11	1	17.01
		2	17.02
		5.5	17.11
		11	17.06

Table 6-3. Output Power Measurements

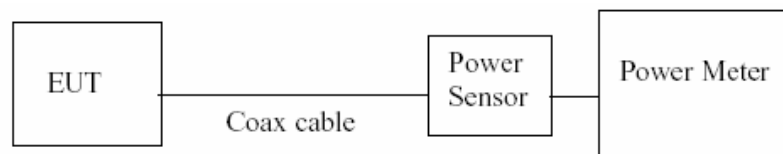




Figure 6-2. Test Instrument & Measurement Setup

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 15 of 37

### 6.3 Output Power Measurement – 802.11g

§15.247(b)(3); RSS-210(A8.4 (4))

A transmitter antenna terminal of EUT is connected to the input of a RF power sensor. Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible conducted output power is 1 Watt.**

Freq [MHz]	Channel	Data Rate [Mbps]	Main Ant. Measured Power [dBm]
2412	1	6	17.03
		9	16.97
		12	17.15
		18	<b>17.26</b>
		24	17.02
		36	17.05
		48	17.16
		54	17.12
2437	6	6	16.70
		9	16.66
		12	16.81
		18	16.97
		24	16.71
		36	16.76
		48	16.85
		54	16.79

Freq [MHz]	Channel	Data Rate [Mbps]	Main Ant. Measured Power [dBm]
2462	11	6	16.43
		9	16.37
		12	16.53
		18	16.70
		24	16.43
		36	16.48
		48	16.57
		54	16.50

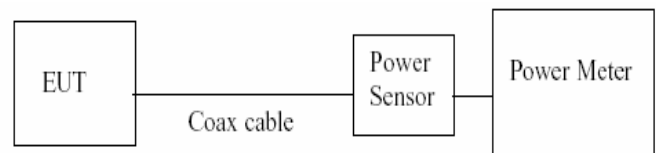




Figure 6-3. Test Instrument & Measurement Setup

Table 6-4. Test Instrument & Measurement Setup

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 16 of 37

## 6.4 Power Spectral Density (802.11b/g)

### §15.247(e); RSS-210(A8.2 (2))

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. ***The maximum permissible power spectral density is 8 dBm in any 3 kHz band.***

The spectrum analyzer is set to:

RBW = 3 kHz (10 dB/div)  
 VBW = 3 kHz  
 Span = 300 kHz  
 Ref. Level = Please See Plots  
 Sweep = 100 s

Frequency [MHz]	Channel No.	Mode	Power Density Test Results	
			[dBm]	Pass/Fail
2412	1	802.11b	-11.10	Pass
2437	6	802.11b	-11.33	Pass
2462	11	802.11b	-11.61	Pass
2412	1	802.11g	-16.25	Pass
2437	6	802.11g	-16.50	Pass
2462	11	802.11g	-16.76	Pass

Table 6-5. Conducted Power Density Measurements

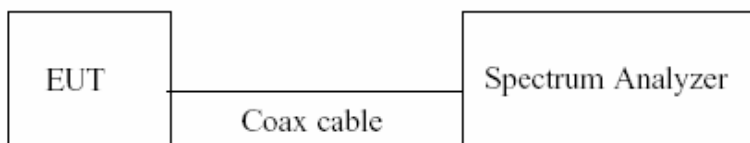


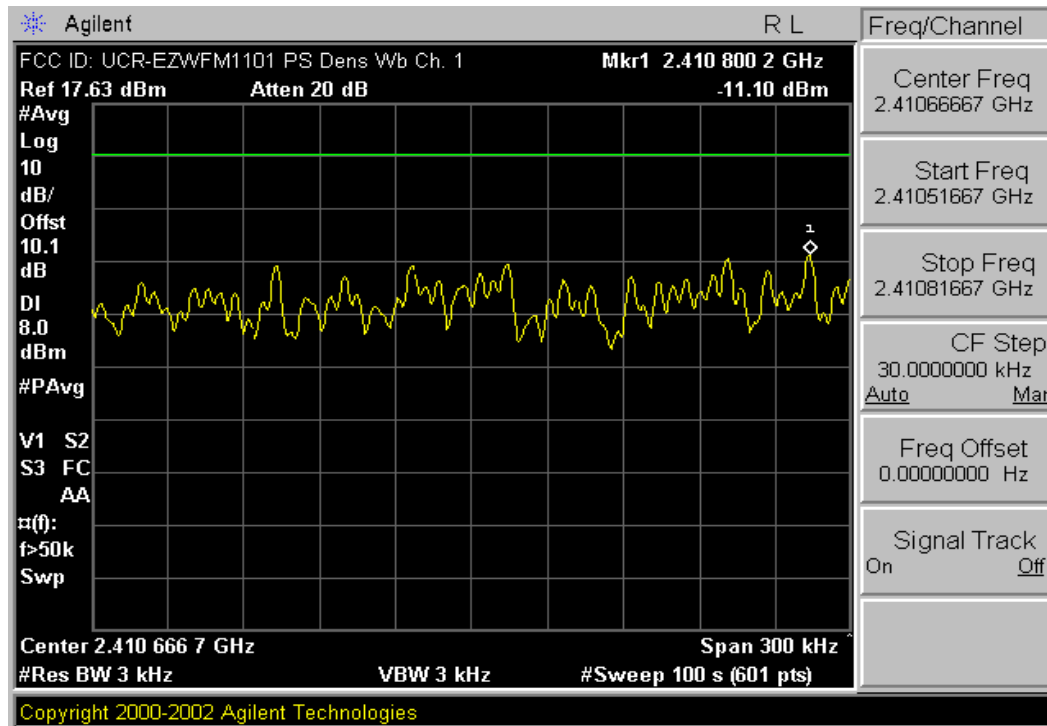
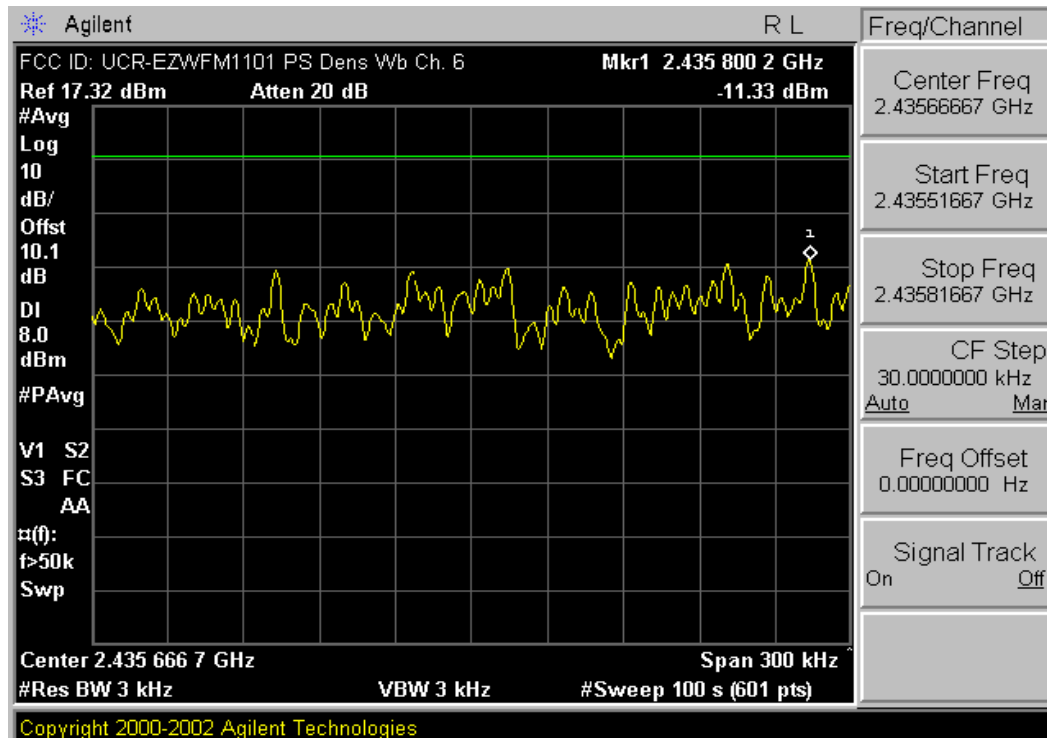


Figure 6-4. Test Instrument & Measurement Setup



FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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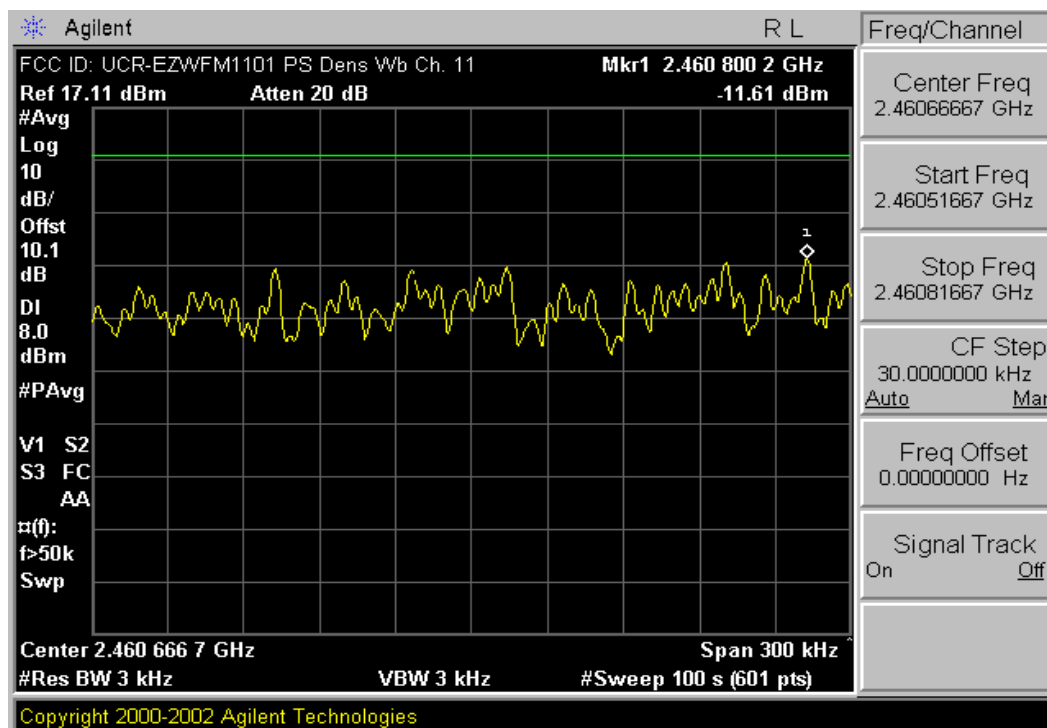


Plot 6-7. Power Spectral Density Plot (802.11b – Ch. 1)

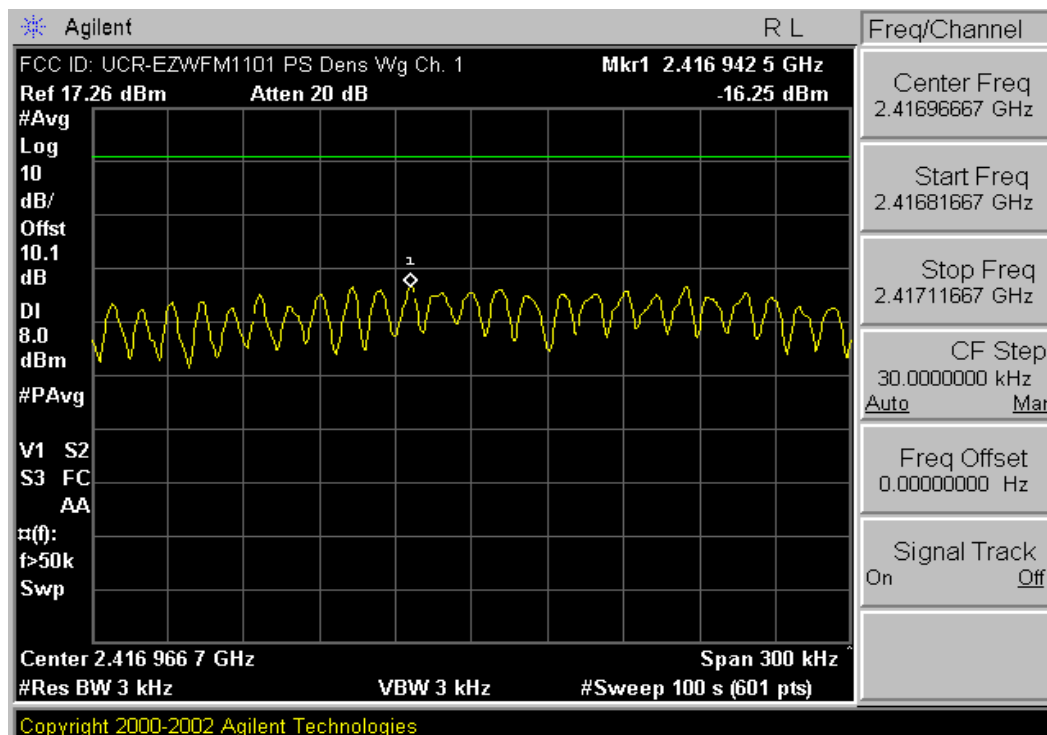


Plot 6-8. Power Spectral Density Plot (802.11b – Ch. 6)



FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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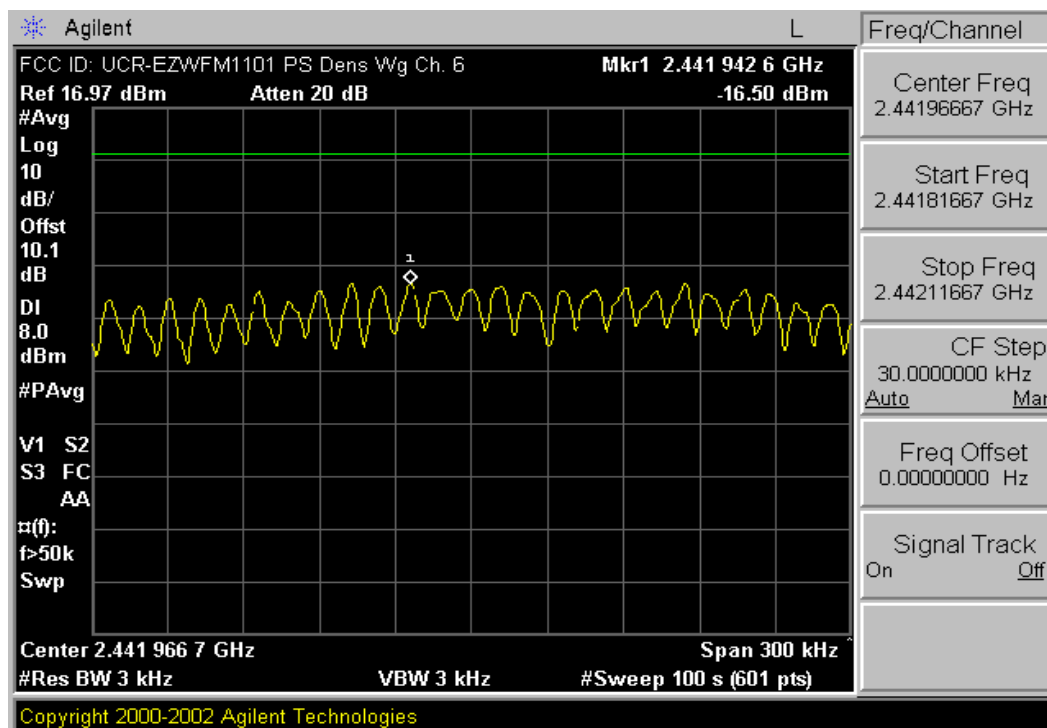


Plot 6-9. Power Spectral Density Plot (802.11b – Ch. 11)

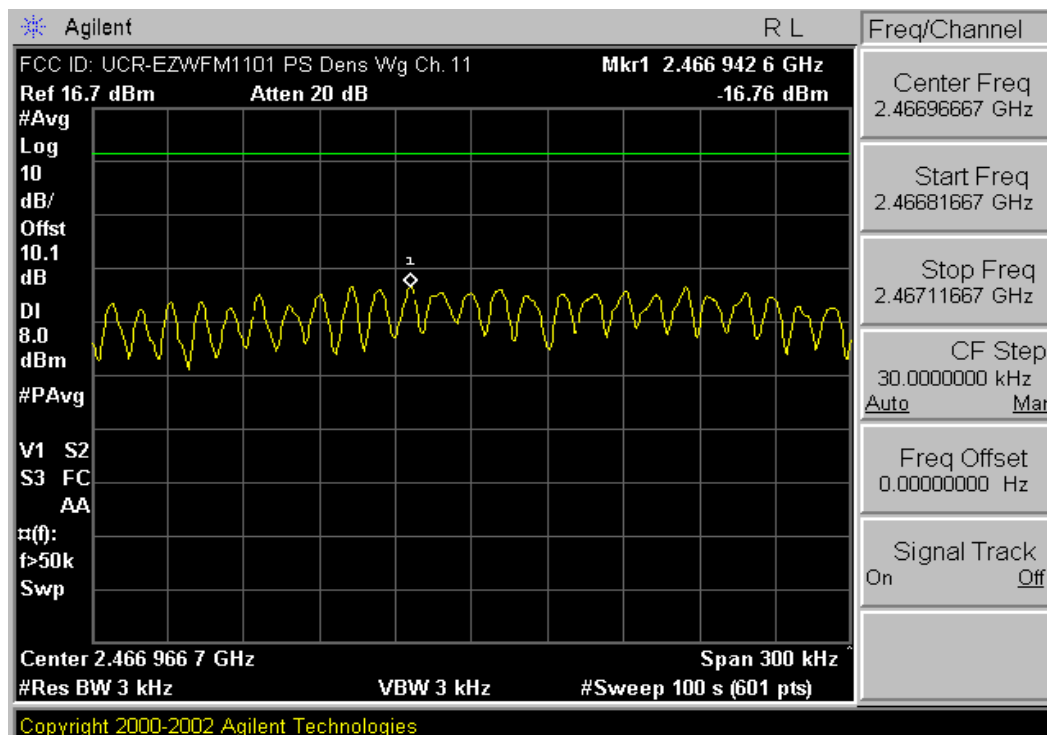


Plot 6-10. Power Spectral Density Plot (802.11g – Ch. 1)



FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 19 of 37



Plot 6-11. Power Spectral Density Plot (802.11g – Ch. 6)



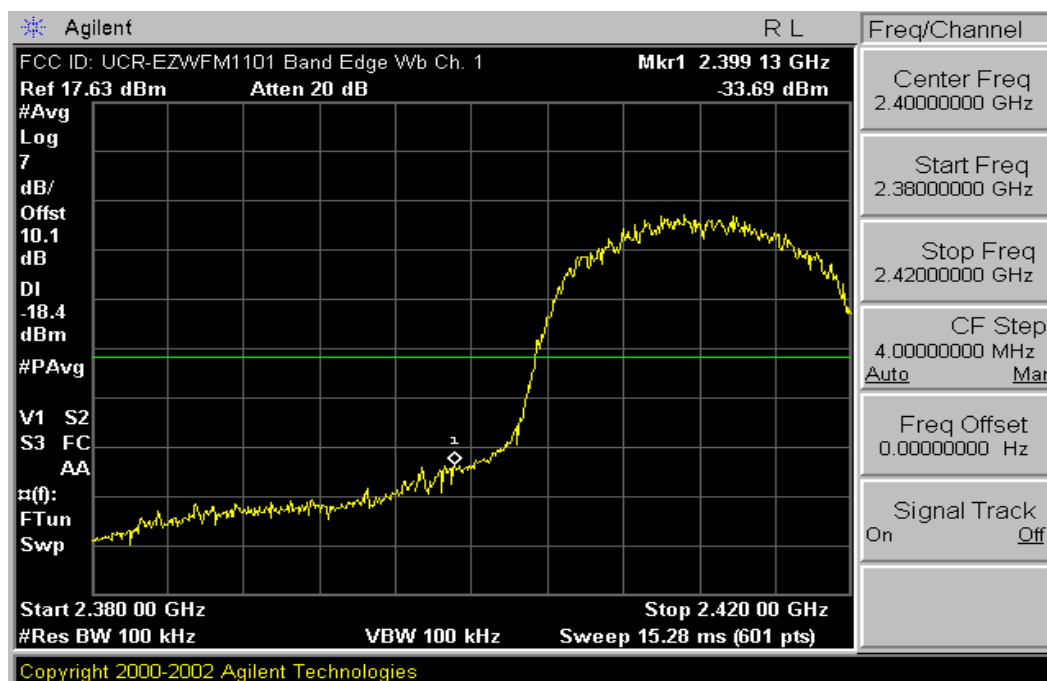
Plot 6-12. Power Spectral Density Plot (802.11g – Ch. 11)

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 20 of 37

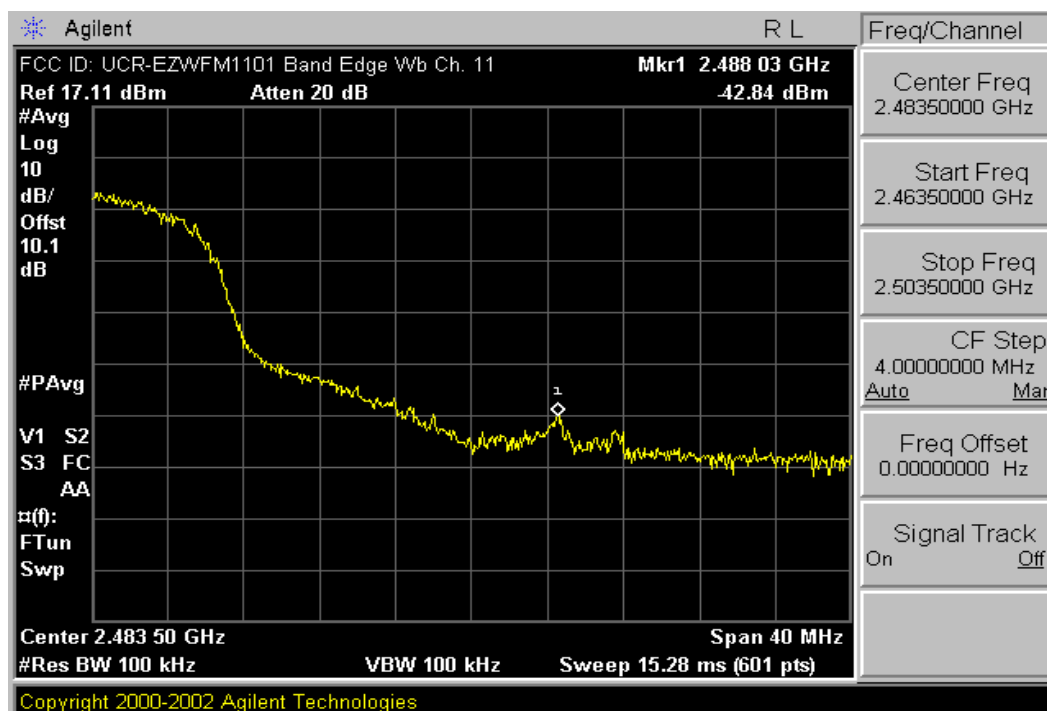


## 6.5 Out of Band Emissions (Band Edge)



§15.247(d): RSS-210(A8.5)

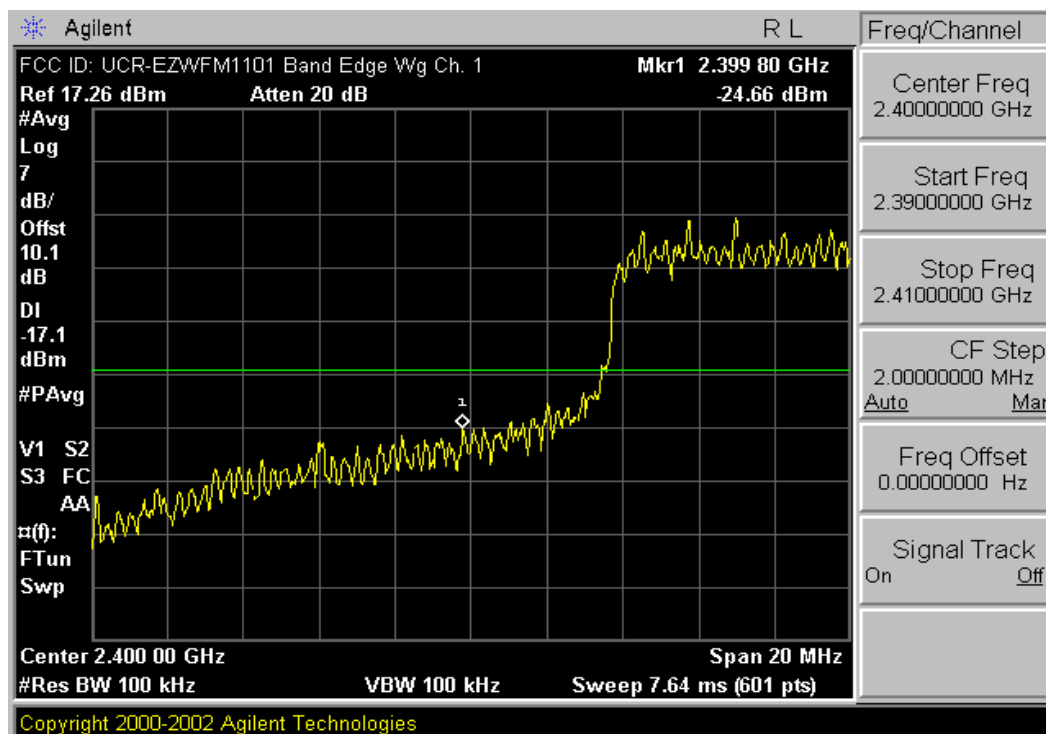


Plot 6-13. Band Edge Plot (802.11b – Ch. 1)

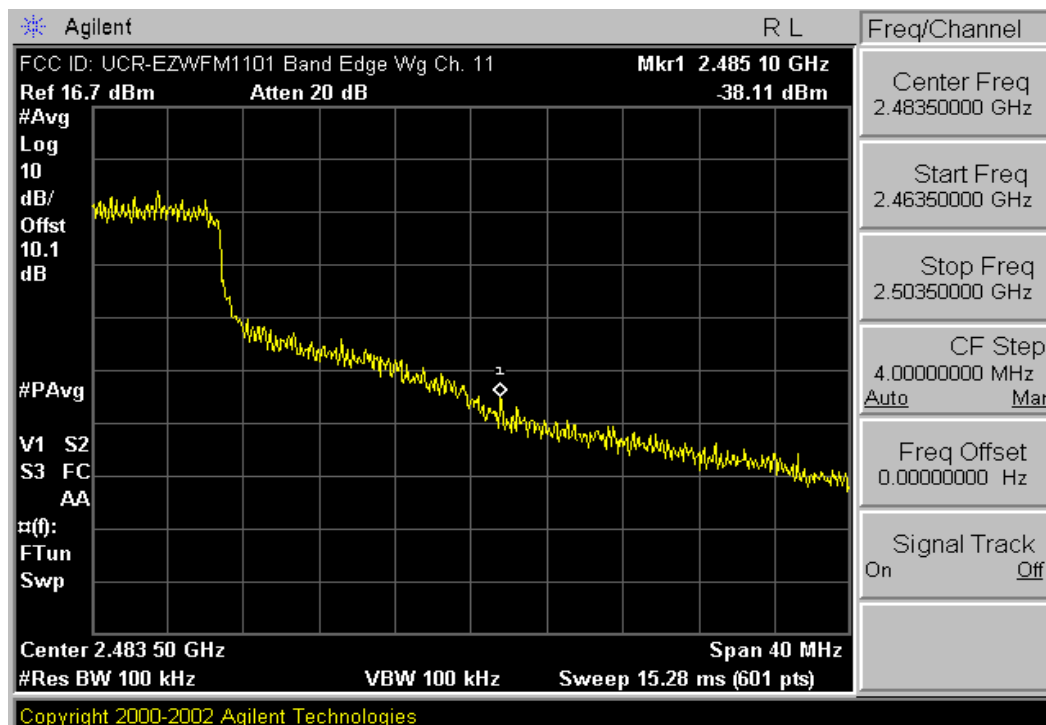


Plot 6-14. Band Edge Plot (802.11b – Ch. 11)



FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 21 of 37



Plot 6-15. Band Edge Plot (802.11g – Ch. 1)



Plot 6-16. Band Edge Plot (802.11g – Ch. 11)

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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## 6.6 Radiated Measurements

**§15.247(d) / §15.205 & §15.209; RSS-210(A8.5)**

The EUT was tested from 9kHz to the tenth harmonic of the fundamental frequency of the transmitter. Below 1GHz a CISPR quasi peak detector was used. Above 1 GHz average measurements were taken, using RBW= 1MHz, VBW= 10Hz, and linearly polarized horn antennas. In addition, peak measurements (RBW= 1MHz, VBW= 1MHz) were taken to ensure that the peak levels are not more than 20dB above the average limit. No harmonics/spurs peak emissions are more than 20dB above the average limit. Special attention is taken for the EUT's harmonic and spurious radiated emissions in the restricted bands of operations, as defined in Section 15.205.

Frequency	Field Strength [ $\mu\text{V/m}$ ]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

**Table 6-6. Radiated Limits**

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
Test Report S/N: 0607140610	Test Dates: August 21 - 25, 2006	EUT Type: WLAN/GPS Locator		Page 23 of 37

## Radiated Measurements (Cont.)

§15.247(d) / §15.205 & §15.209; RSS-210(A8.5)

Mode: 802.11b

Transfer Rate: 1 Mbps

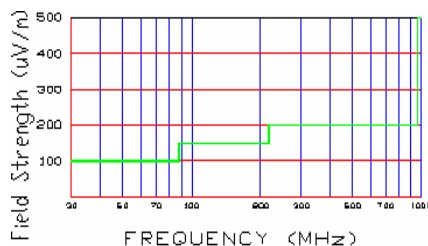
Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 01

	Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dBμV/m]	Field Strength [μV/m]	Margin [dB]
*	4824.00	-105.08	40.6	V	42.52	133.66	-11.48
	7236.00	-108.05	45.8	V	44.75	172.78	-42.15
	9648.00	-107.47	49.6	V	49.13	286.09	-37.77
*	12060.00	-135.00	52.1	V	24.10	16.03	-29.90



**Table 6-7. Peak Radiated Measurements @ 3 meters**



**Figure 6-5. Radiated limits at 3 meters.**

### NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table 6-6. (Note: \* = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 dBm are below the analyzer floor level.
9. Above 1 GHz, the limit is 500 μV/m (54dBμV/m) at 3 meters radiated.

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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# **Radiated Measurements (Cont.)** **§15.247(d) / §15.205 & §15.209; RSS-210(A8.5)**

Mode: 802.11b

Transfer Rate: 1 Mbps

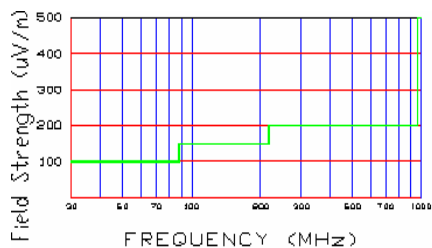
Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

Channel: 06

	Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dBμV/m]	Field Strength [μV/m]	Margin [dB]
*	4874.00	-99.68	40.50	V	47.82	246.04	-6.18
*	7311.00	-105.90	47.30	V	48.40	263.03	-5.60
	9748.00	-108.69	50.05	V	48.36	261.82	-36.29
*	12185.00	-135.00	52.50	V	24.50	16.79	-29.50



**Table 6-8. Peak Radiated Measurements @ 3 meters**



**Figure 6-6. Radiated limits at 3 meters.**

## **NOTES:**

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table 6-6 (Note: \* = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 dBm are below the analyzer floor level.
9. Above 1 GHz, the limit is 500 μV/m (54dBμV/m) at 3 meters radiated.

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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## Radiated Measurements (Cont.)

§15.247(d) / §15.205 & §15.209; RSS-210(A8.5)

Mode: 802.11b

Transfer Rate: 1 Mbps

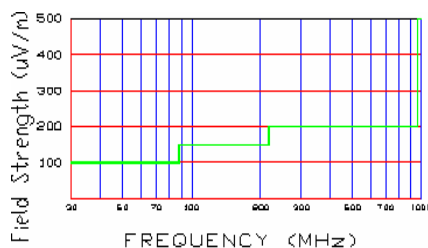
Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

	Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dBμV/m]	Field Strength [μV/m]	Margin [dB]
*	4924.00	-96.35	40.95	V	51.60	380.19	-2.40
*	7386.00	-102.57	46.25	V	50.68	341.98	-3.32
	9848.00	-106.42	49.90	V	50.48	334.20	-36.72
*	12310.00	-135.00	52.10	V	24.10	16.03	-29.90



**Table 6-9. Peak Radiated Measurements @ 3 meters**



**Figure 6-7. Radiated limits at 3 meters.**

### NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in Table 6-6. (Note: \* = Restricted Band measured frequency)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully-recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 135 dBm are below the analyzer floor level.
9. Above 1 GHz, the limit is 500 μV/m (54dBμV/m) at 3 meters radiated.

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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## 6.7 Radiated Restricted Band Measurements

### §15.205 / §15.209; RSS-210(A8.5)

- Special attention is made for the EUT's harmonic and spurious radiated emission in the restricted bands of operations.

Mode: 802.11g

Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz



Channel: 11

Frequency [MHz]	Level [dBm]	AFCL [dB]	Pol. [H/V]	Field Strength [dBμV/m]	Field Strength [μV/m]	Margin [dB]
2483.53	-109.0	31.80	V	29.80	30.90	-24.18
2486.11	-112.7	31.80	V	26.11	20.21	-27.87
2489.30	-112.5	31.81	V	26.27	20.58	-27.71
2492.99	-111.3	31.81	H	27.49	23.69	-26.49
2495.78	-112.6	31.81	V	26.22	20.46	-27.76
2496.34	-112.2	31.81	V	26.60	21.38	-27.38

**Table 6-10. Radiated Restricted Band Measurements at 3-meters**

#### **NOTES:**

- The antenna is manipulated through typical positions, polarity and length during the testing.
- The EUT is supplied with the minimal AC voltage or/and a new/fully re-charged battery.
- The spectrum is measured from 9 kHz up to the 10th harmonic and the worst-case emissions are reported.
- Above 1 GHz the limit is 500μV/m.
- < -135 dBm is below the analyzer measurement floor level.
- The data in the table are Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
- The peak emissions above 1 GHz are not more than 20 dB above the average limit.

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)		Reviewed by: Quality Manager
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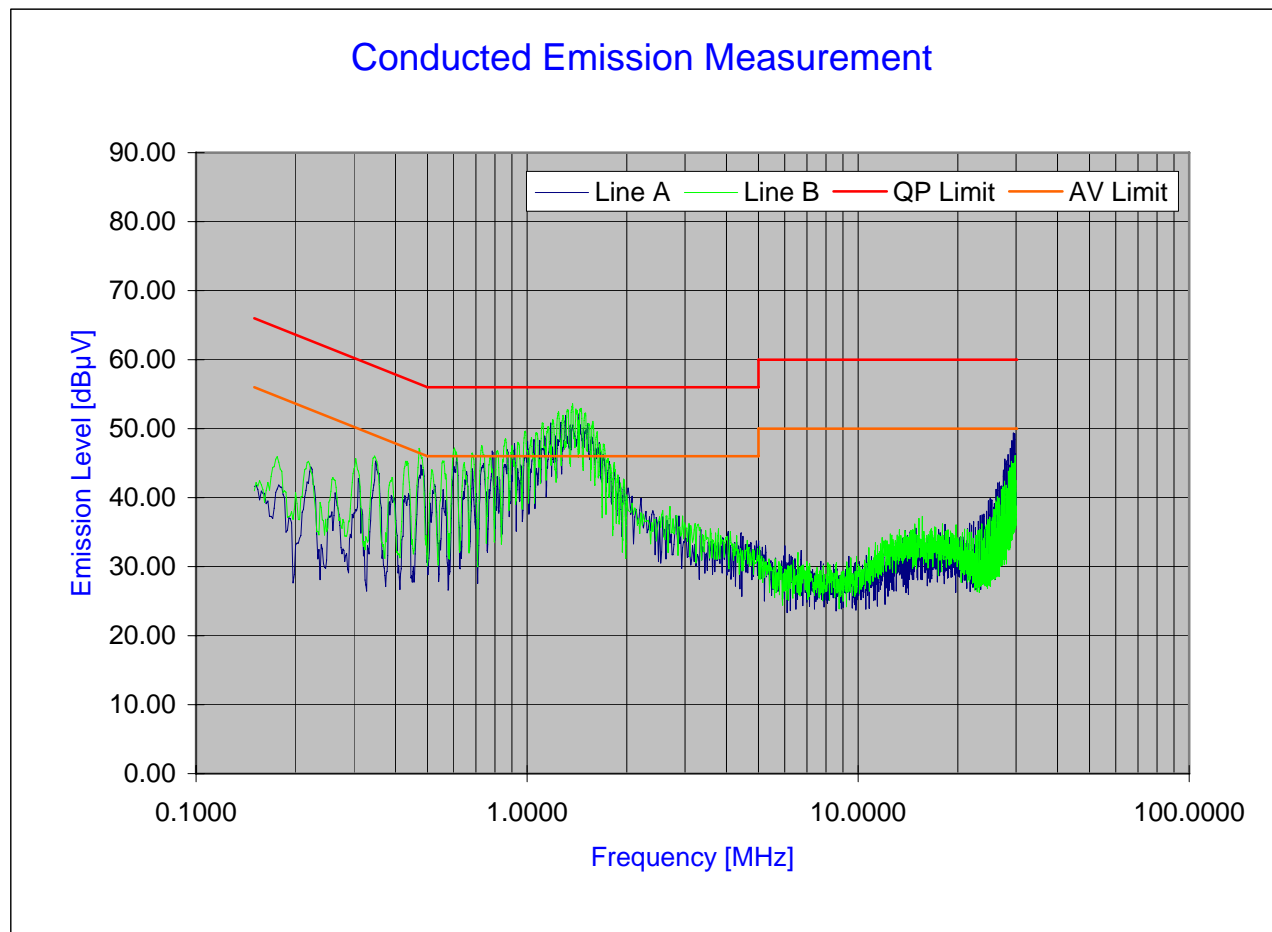
## 6.8 Line-Conducted Test Data

§15.207; RSS-Gen(7.2.2)

# PCTEST Engineering Laboratory Inc.

Company : WebTech Wireless  
Model Number : EZWFM11-01  
FCC ID Code : UCR-EZWFM1101  
Standard : FCC Part 15B class B

Power Source : AC120V/60Hz  
Tested Date : 08/24/2006  
Note : WLAN b On





Ver.1.1 ©PCTEST 2006.08

**Plot 6-17. Line Conducted Plot with 802.11b**

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: None.

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)	 Reviewed by: Quality Manager
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## Line-Conducted Test Data (Cont'd)



§15.207; RSS-Gen(7.2.2)

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	1.131	7.32	44.95	56.00	-11.05	30.58	46.00	-15.42
2	A	1.174	7.32	47.50	56.00	-8.50	31.00	46.00	-15.00
3	A	1.218	7.33	45.44	56.00	-10.56	29.44	46.00	-16.56
4	A	1.238	7.33	46.78	56.00	-9.22	27.72	46.00	-18.28
5	A	1.261	7.33	46.64	56.00	-9.36	30.35	46.00	-15.65
6	A	1.305	7.33	49.32	56.00	-6.68	32.95	46.00	-13.05
7	A	1.365	7.34	48.30	56.00	-7.70	25.65	46.00	-20.35
8	A	1.366	7.34	48.46	56.00	-7.54	27.88	46.00	-18.12
9	A	1.436	7.35	49.78	56.00	-6.22	32.45	46.00	-13.55
10	A	1.565	7.36	47.63	56.00	-8.37	30.14	46.00	-15.86
11	B	1.198	7.32	49.82	56.00	-6.18	36.65	46.00	-9.35
12	B	1.243	7.33	51.07	56.00	-4.93	37.65	46.00	-8.35
13	B	1.287	7.33	50.63	56.00	-5.37	34.36	46.00	-11.64
14	B	1.325	7.34	51.39	56.00	-4.61	37.52	46.00	-8.48
15	B	1.372	7.34	51.97	56.00	-4.03	36.37	46.00	-9.63
16	B	1.404	7.34	50.93	56.00	-5.07	33.24	46.00	-12.76
17	B	1.450	7.35	51.48	56.00	-4.52	32.14	46.00	-13.86
18	B	1.453	7.35	51.40	56.00	-4.60	37.02	46.00	-8.98
19	B	1.500	7.35	50.72	56.00	-5.28	35.29	46.00	-10.71
20	B	1.578	7.36	49.19	56.00	-6.81	31.45	46.00	-14.55

Table 6-11. Line Conducted Data with 802.11b

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: None.

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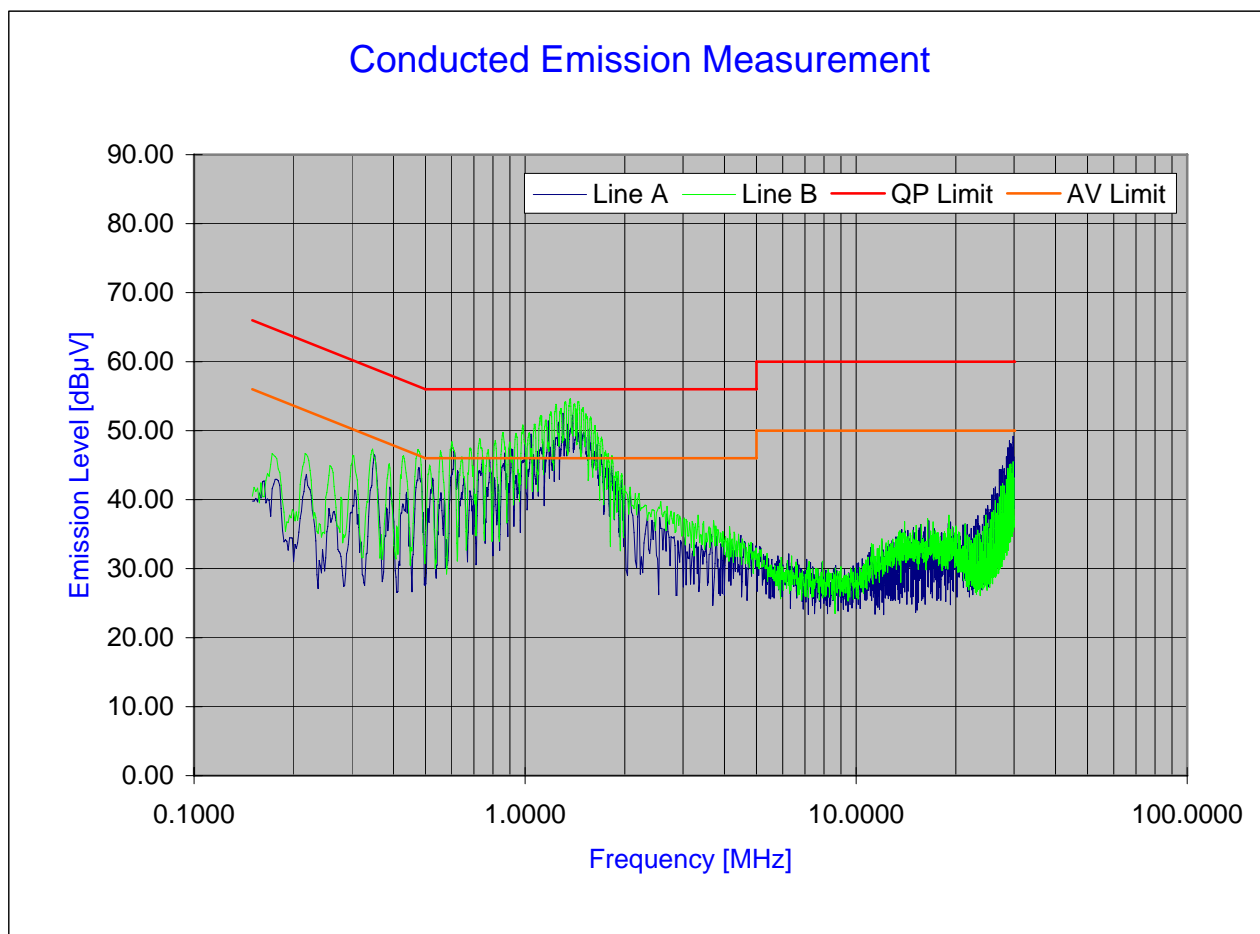
## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen(7.2.2)

# PCTEST Engineering Laboratory Inc.

Company : WebTech Wireless  
Model Number : EZWFM11-01  
FCC ID Code : UCR-EZWFM1101  
Standard : FCC Part 15B class B

Power Source : AC120V/60Hz  
Tested Date : 08/24/2006  
Note : WLAN g On





Ver.1.1 ©PCTEST 2006.08

**Plot 6-18. Line Conducted Plot with 802.11g**

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: None.

FCC ID: UCR-EZWFM1101		FCC Pt. 15.247 CERTIFICATION TEST REPORT (WLAN 802.11b/g)	 Reviewed by: Quality Manager
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## Line-Conducted Test Data (Cont'd)



§15.207; RSS-Gen(7.2.2)

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	1.044	7.32	46.02	56.00	-9.98	31.05	46.00	-14.95
2	A	1.131	7.32	44.84	56.00	-11.16	29.68	46.00	-16.32
3	A	1.173	7.32	47.16	56.00	-8.84	31.62	46.00	-14.38
4	A	1.218	7.33	45.44	56.00	-10.56	29.58	46.00	-16.42
5	A	1.260	7.33	46.84	56.00	-9.16	30.92	46.00	-15.08
6	A	1.305	7.33	49.21	56.00	-6.79	32.71	46.00	-13.29
7	A	1.365	7.34	48.01	56.00	-7.99	23.77	46.00	-22.23
8	A	1.391	7.34	48.40	56.00	-7.60	32.70	46.00	-13.30
9	A	1.435	7.35	49.70	56.00	-6.30	31.91	46.00	-14.09
10	A	1.565	7.36	47.45	56.00	-8.55	30.42	46.00	-15.58
11	B	1.196	7.32	51.19	56.00	-4.81	37.77	46.00	-8.23
12	B	1.241	7.33	52.22	56.00	-3.78	37.99	46.00	-8.01
13	B	1.284	7.33	51.75	56.00	-4.25	29.92	46.00	-16.08
14	B	1.323	7.34	52.73	56.00	-3.27	38.36	46.00	-7.64
15	B	1.369	7.34	53.23	56.00	-2.77	38.61	46.00	-7.39
16	B	1.410	7.34	52.29	56.00	-3.71	33.79	46.00	-12.21
17	B	1.412	7.34	52.33	56.00	-3.67	35.30	46.00	-10.70
18	B	1.452	7.35	52.68	56.00	-3.32	37.89	46.00	-8.11
19	B	1.498	7.35	51.86	56.00	-4.14	35.60	46.00	-10.40
20	B	1.532	7.36	50.52	56.00	-5.48	30.56	46.00	-15.44

Table 6-12. Line Conducted Data with 802.11g

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are Specified in EN55022.
3. Line A = Phase; Line B = Neutral
4. Deviations to the Specifications: None.

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## 6.9 Receiver Spurious Measurements

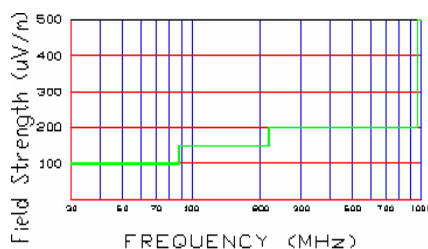
§15.205 / §15.209; RSS-Gen(7.2.3.2)

Mode: Receiver

Distance of Measurements: 3 Meters

FREQ (MHz)	Level (dBm)	AFCL (dB/m)	POL (H/V)	Height (m)	Azimuth (° angle)	F/S (uV/M)	Margin (dB)
57.51	-89.45	4.45	V	2.3	30	12.64	-18.0
72.49	-87.29	6.60	V	2.0	135	20.70	-13.7
82.51	-92.87	7.78	V	2.3	120	12.50	-18.1
132.00	-80.31	12.36	H	1.4	330	89.69	-4.5
241.55	-91.81	18.41	V	2.6	225	47.91	-12.4
264.93	-97.23	19.34	H	1.1	45	28.56	-16.9



**Table 6-13. Radiated Measurements at 3-meters**



**Figure 6-8. Radiated limits at 3 meters.**

### NOTES:



1. All emissions were investigated and the worst-case emissions are reported.
2. For hand-held devices, the EUT is rotated through three orthogonal axes to determine which configuration produces the maximum emissions.
3. The EUT is supplied with the minimal AC voltage or/and a new/fully re-charged battery.
4. The EUT was tested up to the 10th harmonic (25GHz) and no significant emission was found.
5. Above 1 GHz the limit is 500uV/m at 3 meters radiated.

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## 7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **WebTech WLAN/GPS Locator FCC ID: UCR-EZWFM1101** is in compliance with Part 15C of the FCC Rules. Measurement uncertainty was not taken into account in this determination.

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## EXHIBIT A – LABELING REQUIREMENTS

### Sample Label & Location

New Labeling Requirements:

Per 15.19; Docket 95-19

The sample label shown below shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name, FCC ID, and the FCC logo must be displayed on the device per Section 15.19(b)(2).



**Note:** The FCC ID shown will be readily visible at the time of purchase.



**Figure A-1. FCC ID Label**





**Figure A-2. FCC ID Label Location**

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## EXHIBIT B – TEST SETUP PHOTOGRAPHS



The Line-Conducted and Radiated Test Pictures show the worst-case configuration and cable placement with a minimum margin to the specifications.

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## EXHIBIT C – EUT EXTERNAL/INTERNAL PHOTOGRAPHS

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## EXHIBIT D – USER’S MANUAL

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