

## FCC 47 CFR PART 15 SUBPART C

Product Type : WLAN Module  
Applicant : Acer Incorporated  
Address : 8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih, Taipei Hsien 221  
Taiwan, R.O.C.  
Trade Name : acer  
Model Number : AR5B95  
Test Specification : FCC 47 CFR PART 15 SUBPART C: Oct, 2008  
Canada RSS-210 ISSUE 7: Jun, 2007  
Canada RSS-Gen ISSUE 2: Jun, 2007  
ANSI C63.4-2003  
Application Purpose : Class II Permissive Change  
Issue Date : Mar. 08, 2010

### Issue by

A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade City,  
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Taiwan Accreditation Foundation accreditation number: 1330

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**Revision History**

<b>Rev.</b>	<b>Issue Date</b>	<b>Revisions</b>	<b>Revised By</b>
00	Mar. 08, 2010	Initial Issue	

## Test Report Verification

Issued Date: 2010/03/08

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Applicant : Acer Incorporated  
Address : 8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih, Taipei Hsien 221  
Taiwan, R.O.C.  
Trade Name : acer  
Model Number : AR5B95  
FCC ID : HLZ-AR5B95  
IC ID : 1754F-AR5B95  
EUT Rated Voltage : AC 100-240V, 50-60Hz, 1A  
Test Voltage : 120 Vac / 60 Hz  
Applicable Standard : FCC 47 CFR PART 15 SUBPART C: Oct, 2008  
Canada RSS-210 ISSUE 7: Jun, 2007  
Canada RSS-Gen ISSUE 2: Jun, 2007  
ANSI C63.4-2003  
Application Purpose : Class II Permissive Change  
Test Result : Complied  
Performed Lab. : A Test Lab Techno Corp.

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<http://www.atl-lab.com.tw/e-index.htm>



The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the Electromagnetic Compatibility Directive 2004/108/EC and technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By : Miller Lee Reviewed By : Gary Wu  
(Manager) (Miller Lee) (Testing Engineer) (Gary Wu)

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## TABLE OF CONTENTS

<b>1</b>	<b>General Information.....</b>	<b>5</b>
<b>2</b>	<b>EUT Description.....</b>	<b>6</b>
<b>3</b>	<b>Test Methodology.....</b>	<b>7</b>
	3.1. Mode of Operation .....	7
	3.2. EUT Exercise Software.....	7
	3.3. Configuration of Test System Details .....	7
	3.4. Test Site Environment.....	8
<b>4</b>	<b>Maximum Conducted Output Power Measurement .....</b>	<b>9</b>
	4.1. Limit .....	9
	4.2. Test Setup .....	9
	4.3. Test Instruments.....	9
	4.4. Test Procedure.....	9
	4.5. Test Result .....	10
<b>5</b>	<b>Transmitter Radiated Emissions Measurement .....</b>	<b>11</b>
	5.1. Limit .....	11
	5.2. Test Instruments.....	11
	5.3. Setup.....	12
	5.4. Test Procedure.....	12
	5.5. Test Result .....	14
<b>6</b>	<b>Band Edges Measurement.....</b>	<b>28</b>
	6.1. Limit .....	28
	6.2. Test Setup .....	28
	6.3. Test Instruments.....	28
	6.4. Test Procedure.....	29
	6.5. Test Graphs.....	29
<b>7</b>	<b>Antenna Requirements .....</b>	<b>46</b>
	7.1. Limit .....	46
	7.2. Antenna Connector Construction.....	46

## 1 General Information

### 1.1 Summary of Test Result

Standard		Item	Result	Remark
15.247	RSS-210			
15.247(b)(3)	A8.4	Max. Output Power	PASS	-----
15.247(d)	A8.5	Transmitter Radiated Emissions	PASS	-----
15.247(d)	A8.5	Band Edge Measurement	PASS	-----
15.203	-	Antenna Requirement	PASS	-----

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

### 1.2 Measurement Uncertainty

#### Conducted Emission

The measurement uncertainty is evaluated as  $\pm 2.24$  dB.

#### Radiated Emission

The measurement uncertainty of 30 MHz - 1GHz is evaluated as  $\pm 3.072$ dB.

## 2 EUT Description

<b>Product</b>	:	WLAN Module
<b>Trade Name</b>	:	acer
<b>Model Number</b>	:	AR5B95
<b>Applicant</b>	:	Acer Incorporated 8F, 88, Sec.1, Hsin Tai Wu Rd. Hsichih, Taipei Hsien 221 Taiwan, R.O.C.
<b>Manufacturer</b>	:	Quanta Computer Inc. No.211, Wen Hwa 2nd Rd., Kuei Shan Hsiang, Tao Yuan Shien, Taiwan, R.O.C.
<b>FCC ID</b>	:	HLZ-AR5B95
<b>IC ID</b>	:	1754F-AR5B95
<b>Frequency Range</b>	:	IEEE 802.11b / IEEE 802.11g: 2412MHz~2462MHz draft 802.11n Standard-20MHz: 2412MHz~2462MHz draft 802.11n Wide-40MHz: 2422MHz~2452MHz
<b>Modulation Type</b>	:	IEEE 802.11b:DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g:DSSS(CCK, DQPSK, DBPSK)+ OFDM(QPSK, BPSK, 16-QAM, 64-QAM) draft 802.11n Standard-20MHz channel mode: OFDM(6.5,7.2, 13,14.4, 14.44, 19.5,217,26,28.89,28.9,39.43.3,43.33,52,57.78, 57.8, 58.5, 65.0, 72.2, 78, 86.67,104,115.56,117,130 and 144.44 Mbps) draft 802.11n Wide-40MHz channel mode: OFDM(13.5,15,27,30,40.5, 45,54,60,81,90,108,120, 121.5,135,150,162,180,216,240,243,270 and 300 Mbps)
<b>Antenna Type</b>	:	PIFA Type
<b>Antenna Gain</b>	:	Main: -0.71 dBi, Aux: 0.27 dBi
<b>Max. RF Output Power</b>	:	IEEE 802.11b: 0.135 W / 21.29 dBm IEEE 802.11g: 0.317 W / 25.01 dBm draft 802.11n Standard-20MHz: 0.333 W / 25.23 dBm draft 802.11n Wide-40MHz: 0.153 W / 21.85 dBm
<b>Component</b>		
<b>Power Adapter</b>	:	HIPRO, HP-A00301R3 Input: 100-240 Vac, 50-60 Hz, 1 A Output: 19 Vdc, 1.58 A Cable in: Non-Shielded, 1.7 m Cable out: Non-Shielded, 1.5 m
<b>Battery</b>	:	11.1 Vdc, 4400mAh

### 3 Test Methodology

#### 3.1. Mode of Operation

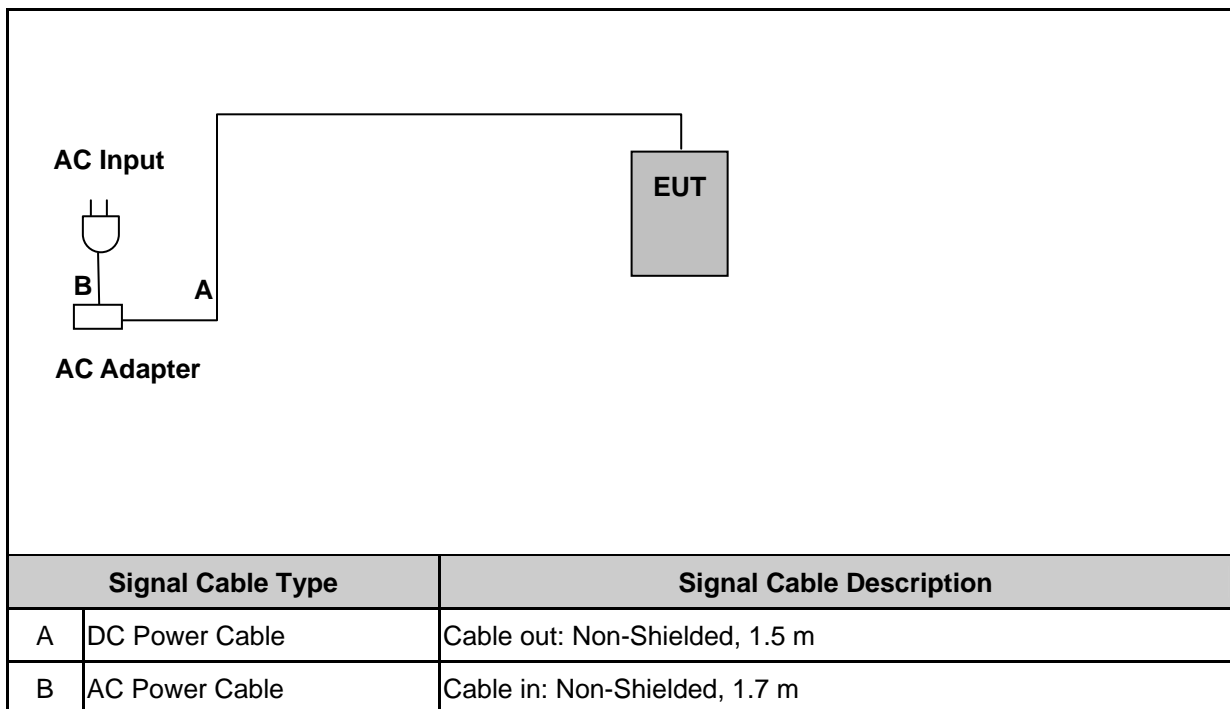
Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11b Link Mode
Mode 3: IEEE 802.11g Link Mode
Mode 4: draft 802.11n Standard-20MHz Link Mode
Mode 5: draft 802.11n Wide-40MHz Link Mode
Mode 6: Receiver Mode

#### 3.2. EUT Exercise Software

1.	Turn on the power of all equipment.
2.	EUT run ART test program.

#### 3.3. Configuration of Test System Details



**3.4. Test Site Environment**

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	25
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

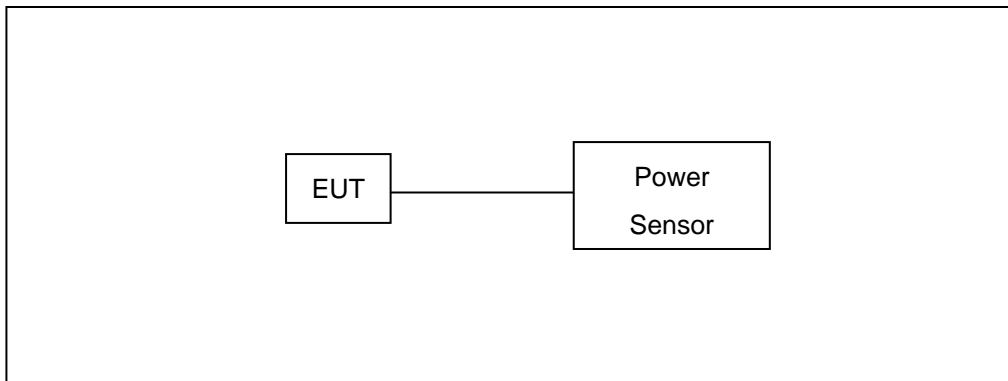


## 4 Maximum Conducted Output Power Measurement

### 4.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm.

### 4.2. Test Setup



### 4.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Power Sensor	R&S	NRP-Z81	100017	05/17/2009	(2)
Test Site	ATL	TE06	TE06	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

### 4.4. Test Procedure

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor.

The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the power sensor, for prevent the power sensor input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode.

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to  $(\text{GAIN} - 6)/3$  dBm.

The antenna port of the EUT was connected to the input of a power sensor. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

#### 4.5. Test Result

Product	WLAN Module					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 2: IEEE 802.11b Link Mode					
Date of Test	02/25/2010			Test Site	TE06	
Frequency (MHz)	Data Rate	Average		Peak		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2412	1	17.25	0.053	20.32	0.108	< 30
2437	1	17.90	0.062	20.89	0.123	< 30
2462	1	18.23	0.067	21.29	0.135	< 30

Product	WLAN Module					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 3: IEEE 802.11g Link Mode					
Date of Test	02/25/2010			Test Site	TE06	
Frequency (MHz)	Data Rate	Average		Peak		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2412	6	13.86	0.024	22.08	0.161	< 30
2437	6	16.94	0.049	25.01	0.317	< 30
2462	6	14.93	0.031	23.07	0.203	< 30

Product	WLAN Module					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 4: draft 802.11n Standard-20MHz Link Mode					
Date of Test	02/25/2010			Test Site	TE06	
Frequency (MHz)	Data Rate	Average		Peak		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2412	6.5	12.71	0.019	20.96	0.125	< 30
2437	6.5	17.05	0.051	25.23	0.333	< 30
2462	6.5	13.75	0.024	21.89	0.155	< 30

Product	WLAN Module					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 5: draft 802.11n Wide-40MHz Link Mode					
Date of Test	02/25/2010			Test Site	TE06	
Frequency (MHz)	Data Rate	Average		Peak		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2422	13.5	9.87	0.010	17.72	0.059	< 30
2437	13.5	13.57	0.023	21.85	0.153	< 30
2452	13.5	9.41	0.009	17.77	0.060	< 30

## 5 Transmitter Radiated Emissions Measurement

### 5.1. Limit

Frequency Range (MHz)	Peak (dBuV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

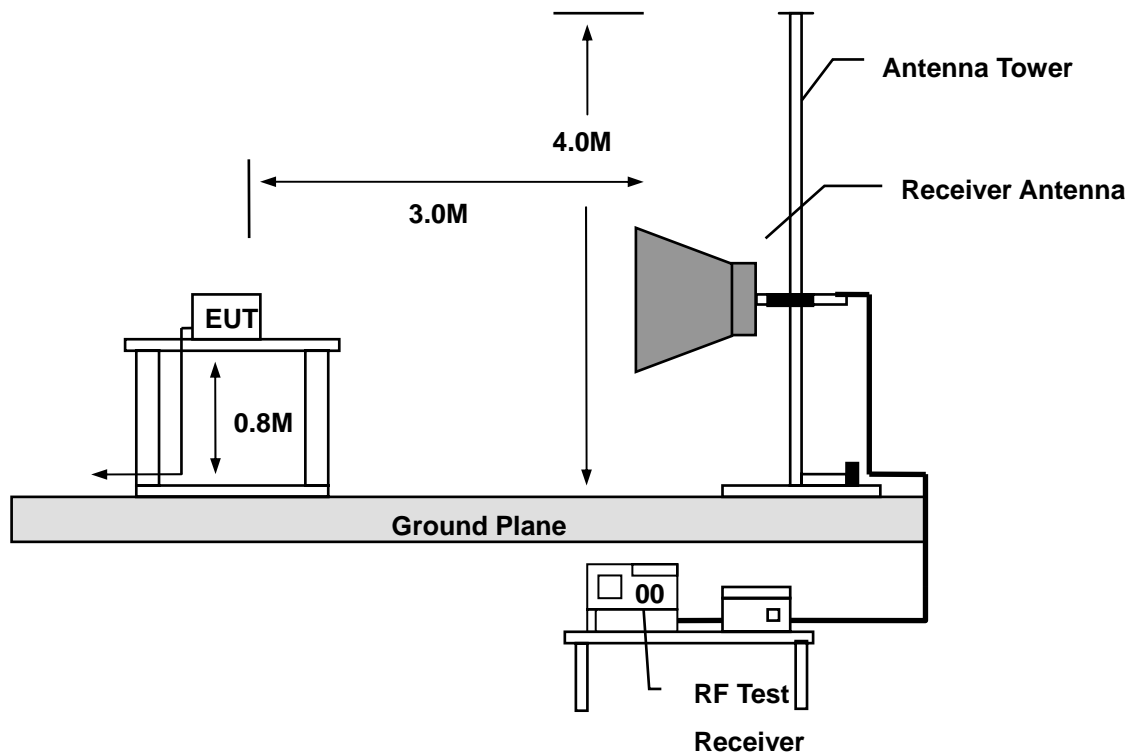
### 5.2. Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/27/2009	(2)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/20/2009	(2)
Pre Amplifier	Agilent	8449B	3008A02237	07/01/2009	(1)
Pre Amplifier	Agilent	8447D	2944A10961	06/30/2009	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	06/23/2009	(2)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	07/01/2009	(2)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/30/2009	(2)
Test Site	ATL	TE01	TE01	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

### 5.3. Setup



### 5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (mode VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).

The actual field intensity in decibels referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

## 5.5. Test Result

### Below 1GHz

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 1: Normal Operation Mode						
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
35.00	V	43.21	-13.19	30.02	40.00	-9.98	QP
66.59	V	35.47	-15.05	20.42	40.00	-19.58	QP
126.39	V	49.10	-15.20	33.90	43.50	-9.60	QP
154.88	V	46.37	-15.91	30.46	43.50	-13.04	QP
232.64	V	42.31	-11.80	30.51	46.00	-15.49	QP
278.94	V	43.51	-10.49	33.02	46.00	-12.98	QP
333.25	V	40.18	-9.32	30.86	46.00	-15.14	QP
431.60	V	37.43	-8.03	29.40	46.00	-16.60	QP
617.45	V	27.62	-4.38	23.24	46.00	-22.76	QP
796.30	V	27.01	-2.35	24.66	46.00	-21.34	QP
929.30	V	27.33	-0.37	26.96	46.00	-19.04	QP
35.67	H	45.12	-13.02	32.10	40.00	-7.90	QP
92.64	H	38.52	-12.57	25.95	43.50	-17.55	QP
124.91	H	41.47	-15.02	26.45	43.50	-17.05	QP
156.09	H	41.38	-15.81	25.57	43.50	-17.93	QP
199.43	H	40.83	-13.17	27.66	43.50	-15.84	QP
266.52	H	41.39	-11.00	30.39	46.00	-15.61	QP
333.25	H	39.52	-9.32	30.20	46.00	-15.80	QP
431.95	H	31.48	-8.03	23.45	46.00	-22.55	QP
539.40	H	28.42	-6.08	22.34	46.00	-23.66	QP
623.05	H	27.45	-4.54	22.91	46.00	-23.09	QP
796.65	H	27.33	-2.34	24.99	46.00	-21.01	QP
943.65	H	26.01	0.26	26.27	46.00	-19.73	QP

**Above 1GHz**

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 2: IEEE 802.11b Link Mode				Frequency	2412MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2279.25	V	56.48	0.46	56.94	74.00	-17.06	peak
2279.25	V	39.55	0.46	40.01	54.00	-13.99	AVG
2703.65	V	41.57	21.89	63.46	74.00	-10.54	peak
2703.65	V	18.87	21.89	40.76	54.00	-13.24	AVG
4842.55	V	42.53	7.67	50.20	74.00	-23.80	peak
9689.75	V	36.57	17.35	53.92	74.00	-20.08	peak
9689.75	V	34.38	17.35	51.73	54.00	-2.27	AVG
14200.00	V	28.68	28.40	57.08	74.00	-16.92	peak
14200.00	V	18.13	28.40	46.53	54.00	-7.47	AVG
18000.00	V	28.23	35.11	63.34	74.00	-10.66	peak
18000.00	V	7.95	35.11	43.06	54.00	-10.94	AVG
18106.25	V	38.65	23.23	61.88	74.00	-12.12	peak
18106.25	V	20.32	23.23	43.55	54.00	-10.45	AVG
22462.50	V	38.95	20.91	59.86	74.00	-14.14	peak
22462.50	V	19.62	20.91	40.53	54.00	-13.47	AVG
25458.75	V	40.21	19.01	59.22	74.00	-14.78	peak
25458.75	V	21.70	19.01	40.71	54.00	-13.29	AVG
2270.75	H	56.88	0.42	57.30	74.00	-16.70	peak
2270.75	H	39.64	0.42	40.06	54.00	-13.94	AVG
2700.00	H	40.57	22.58	63.15	74.00	-10.85	peak
2700.00	H	18.64	22.58	41.22	54.00	-12.78	AVG
4842.55	H	42.23	7.67	49.90	74.00	-24.10	peak
9919.70	H	35.70	17.78	53.48	74.00	-20.52	peak
9919.70	H	23.14	17.78	40.92	54.00	-13.08	AVG
14040.00	H	29.06	28.20	57.26	74.00	-16.74	peak
14040.00	H	17.92	28.20	46.12	54.00	-7.88	AVG
18000.00	H	27.97	35.11	63.08	74.00	-10.92	peak
18000.00	H	8.10	35.11	43.21	54.00	-10.79	AVG
18403.75	H	38.65	23.15	61.80	74.00	-12.20	peak
18403.75	H	19.74	23.15	42.89	54.00	-11.11	AVG
21888.75	H	38.62	21.18	59.80	74.00	-14.20	peak
21888.75	H	20.03	21.18	41.21	54.00	-12.79	AVG
25990.00	H	41.08	18.56	59.64	74.00	-14.36	peak
25990.00	H	22.06	18.56	40.62	54.00	-13.38	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 2: IEEE 802.11b Link Mode				Frequency	2437MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2260.55	V	56.92	0.45	57.37	74.00	-16.63	peak
2260.55	V	40.31	0.45	40.76	54.00	-13.24	AVG
2703.65	V	41.43	21.89	63.32	74.00	-10.68	peak
2703.65	V	18.67	21.89	40.56	54.00	-13.44	AVG
4977.60	V	39.58	7.87	47.45	74.00	-26.55	peak
9905.10	V	35.40	17.77	53.17	74.00	-20.83	peak
9905.10	V	23.75	17.77	41.52	54.00	-12.48	AVG
14300.00	V	29.05	28.15	57.20	74.00	-16.80	peak
14300.00	V	18.14	28.15	46.29	54.00	-7.71	AVG
18000.00	V	28.32	35.11	63.43	74.00	-10.57	peak
18000.00	V	8.11	35.11	43.22	54.00	-10.78	AVG
18786.25	V	38.86	23.14	62.00	74.00	-12.00	peak
18786.25	V	19.27	23.14	42.41	54.00	-11.59	AVG
21655.00	V	38.78	21.27	60.05	74.00	-13.95	peak
21655.00	V	19.79	21.27	41.06	54.00	-12.94	AVG
25310.00	V	40.40	19.10	59.50	74.00	-14.50	peak
25310.00	V	21.36	19.10	40.46	54.00	-13.54	AVG
2274.15	H	57.00	0.43	57.43	74.00	-16.57	peak
2274.15	H	41.02	0.43	41.45	54.00	-12.55	AVG
2700.00	H	40.64	22.58	63.22	74.00	-10.78	peak
2700.00	H	18.38	22.58	40.96	54.00	-13.04	AVG
4874.00	H	35.75	7.72	43.47	74.00	-30.53	peak
9744.50	H	35.43	17.69	53.12	74.00	-20.88	peak
9744.50	H	23.28	17.69	40.97	54.00	-13.03	AVG
14160.00	H	29.13	28.37	57.50	74.00	-16.50	peak
14160.00	H	17.87	28.37	46.24	54.00	-7.76	AVG
18000.00	H	28.41	35.11	63.52	74.00	-10.48	peak
18000.00	H	7.79	35.11	42.90	54.00	-11.10	AVG
19062.50	H	38.54	23.03	61.57	74.00	-12.43	peak
19062.50	H	18.79	23.03	41.82	54.00	-12.18	AVG
21506.25	H	38.53	21.35	59.88	74.00	-14.12	peak
21506.25	H	19.60	21.35	40.95	54.00	-13.05	AVG
24013.75	H	40.05	20.01	60.06	74.00	-13.94	peak
24013.75	H	20.20	20.01	40.21	54.00	-13.79	AVG



Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 2: IEEE 802.11b Link Mode				Frequency	2462MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2290.30	V	57.08	0.40	57.48	74.00	-16.52	peak
2290.30	V	40.32	0.40	40.72	54.00	-13.28	AVG
2703.65	V	42.20	21.89	64.09	74.00	-9.91	peak
2703.65	V	18.67	21.89	40.56	54.00	-13.44	AVG
3992.10	V	45.09	4.98	50.07	74.00	-23.93	peak
9879.55	V	35.78	17.82	53.60	74.00	-20.40	peak
9879.55	V	23.47	17.82	41.29	54.00	-12.71	AVG
14260.00	V	28.86	28.20	57.06	74.00	-16.94	peak
14260.00	V	18.05	28.20	46.25	54.00	-7.75	AVG
17900.00	V	29.29	34.50	63.79	74.00	-10.21	peak
17900.00	V	8.10	34.50	42.60	54.00	-11.40	AVG
19360.00	V	38.63	22.84	61.47	74.00	-12.53	peak
19360.00	V	19.92	22.84	42.76	54.00	-11.24	AVG
21931.25	V	38.39	21.15	59.54	74.00	-14.46	peak
21931.25	V	19.99	21.15	41.14	54.00	-12.86	AVG
25310.00	V	40.38	19.10	59.48	74.00	-14.52	peak
25310.00	V	21.48	19.10	40.58	54.00	-13.42	AVG
2283.50	H	57.33	0.44	57.77	74.00	-16.23	peak
2283.50	H	39.54	0.44	39.98	54.00	-14.02	AVG
2703.65	H	41.63	21.89	63.52	74.00	-10.48	peak
2703.65	H	18.64	21.89	40.53	54.00	-13.47	AVG
4944.75	H	42.05	7.72	49.77	74.00	-24.23	peak
9375.85	H	36.27	17.02	53.29	74.00	-20.71	peak
9375.85	H	23.41	17.02	40.43	54.00	-13.57	AVG
14180.00	H	28.76	28.39	57.15	74.00	-16.85	peak
14180.00	H	18.00	28.39	46.39	54.00	-7.61	AVG
18000.00	H	27.91	35.11	63.02	74.00	-10.98	peak
18000.00	H	8.04	35.11	43.15	54.00	-10.85	AVG
18680.00	H	38.49	23.09	61.58	74.00	-12.42	peak
18680.00	H	19.62	23.09	42.71	54.00	-11.29	AVG
21910.00	H	39.09	21.16	60.25	74.00	-13.75	peak
21910.00	H	20.08	21.16	41.24	54.00	-12.76	AVG
24375.00	H	40.26	19.74	60.00	74.00	-14.00	peak
24375.00	H	20.88	19.74	40.62	54.00	-13.38	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 3: IEEE 802.11g Link Mode				Frequency	2412Hz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2303.05	V	56.42	0.50	56.92	74.00	-17.08	peak
2303.05	V	39.27	0.50	39.77	54.00	-14.23	AVG
2700.00	V	41.48	22.58	64.06	74.00	-9.94	peak
2700.00	V	18.47	22.58	41.05	54.00	-12.95	AVG
4977.60	V	40.57	7.87	48.44	74.00	-25.56	peak
9346.65	V	36.72	16.94	53.66	74.00	-20.34	peak
9346.65	V	23.06	16.94	40.00	54.00	-14.00	AVG
14100.00	V	28.53	28.44	56.97	74.00	-17.03	peak
14100.00	V	17.09	28.44	45.53	54.00	-8.47	AVG
18000.00	V	27.31	35.11	62.42	74.00	-11.58	peak
18000.00	V	7.02	35.11	42.13	54.00	-11.87	AVG
19168.75	V	38.23	22.95	61.18	74.00	-12.82	peak
19168.75	V	19.34	22.95	42.29	54.00	-11.71	AVG
21612.50	V	38.21	21.28	59.49	74.00	-14.51	peak
21612.50	V	18.85	21.28	40.13	54.00	-13.87	AVG
25437.50	V	40.43	19.02	59.45	74.00	-14.55	peak
25437.50	V	20.84	19.02	39.86	54.00	-14.14	AVG
2274.15	H	56.61	0.43	57.04	74.00	-16.96	peak
2274.15	H	39.88	0.43	40.31	54.00	-13.69	AVG
2700.00	H	40.62	22.58	63.20	74.00	-10.80	peak
2700.00	H	18.51	22.58	41.09	54.00	-12.91	AVG
4824.00	H	36.81	7.48	44.29	74.00	-29.71	peak
9456.15	H	36.28	16.98	53.26	74.00	-20.74	peak
9456.15	H	23.64	16.98	40.62	54.00	-13.38	AVG
14340.00	H	28.94	28.08	57.02	74.00	-16.98	peak
14340.00	H	17.51	28.08	45.59	54.00	-8.41	AVG
18000.00	H	27.35	35.11	62.46	74.00	-11.54	peak
18000.00	H	7.47	35.11	42.58	54.00	-11.42	AVG
19381.25	H	38.43	22.82	61.25	74.00	-12.75	peak
19381.25	H	19.55	22.82	42.37	54.00	-11.63	AVG
23121.25	H	39.13	20.83	59.96	74.00	-14.04	peak
23121.25	H	19.19	20.83	40.02	54.00	-13.98	AVG
26032.50	H	40.66	18.54	59.20	74.00	-14.80	peak
26032.50	H	21.28	18.54	39.82	54.00	-14.18	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 3: IEEE 802.11g Link Mode				Frequency	2437MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2261.40	V	56.80	0.45	57.25	74.00	-16.75	peak
2261.40	V	39.89	0.45	40.34	54.00	-13.66	AVG
2700.00	V	40.78	22.58	63.36	74.00	-10.64	peak
2700.00	V	18.47	22.58	41.05	54.00	-12.95	AVG
4981.25	V	41.64	7.89	49.53	74.00	-24.47	peak
9722.60	V	35.62	17.56	53.18	74.00	-20.82	peak
9722.60	V	23.54	17.56	41.10	54.00	-12.90	AVG
14180.00	V	28.51	28.39	56.90	74.00	-17.10	peak
14180.00	V	17.91	28.39	46.30	54.00	-7.70	AVG
18000.00	V	27.99	35.11	63.10	74.00	-10.90	peak
18000.00	V	7.24	35.11	42.35	54.00	-11.65	AVG
18191.25	V	38.21	23.22	61.43	74.00	-12.57	peak
18191.25	V	20.49	23.22	43.71	54.00	-10.29	AVG
21633.75	V	38.33	21.28	59.61	74.00	-14.39	peak
21633.75	V	19.17	21.28	40.45	54.00	-13.55	AVG
26117.50	V	40.89	18.47	59.36	74.00	-14.64	peak
26117.50	V	20.94	18.47	39.41	54.00	-14.59	AVG
2316.65	H	57.23	0.29	57.52	74.00	-16.48	peak
2316.65	H	39.85	0.29	40.14	54.00	-13.86	AVG
2700.00	H	40.81	22.58	63.39	74.00	-10.61	peak
2700.00	H	18.64	22.58	41.22	54.00	-12.78	AVG
4874.00	H	36.43	7.72	44.15	74.00	-29.85	peak
9916.05	H	35.85	17.78	53.63	74.00	-20.37	peak
9916.05	H	23.33	17.78	41.11	54.00	-12.89	AVG
14100.00	H	28.36	28.44	56.80	74.00	-17.20	peak
14100.00	H	17.61	28.44	46.05	54.00	-7.95	AVG
17980.00	H	27.22	34.75	61.97	74.00	-12.03	peak
17980.00	H	7.45	34.75	42.20	54.00	-11.80	AVG
18000.00	H	37.08	24.46	61.54	74.00	-12.46	peak
18000.00	H	19.84	24.46	44.30	54.00	-9.70	AVG
21803.75	H	38.58	21.21	59.79	74.00	-14.21	peak
21803.75	H	19.40	21.21	40.61	54.00	-13.39	AVG
26053.75	H	40.66	18.52	59.18	74.00	-14.82	peak
26053.75	H	21.10	18.52	39.62	54.00	-14.38	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 3: IEEE 802.11g Link Mode				Frequency	2462MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2268.20	V	57.09	0.43	57.52	74.00	-16.48	peak
2268.20	V	40.12	0.43	40.55	54.00	-13.45	AVG
2703.65	V	41.01	21.89	62.90	74.00	-11.10	peak
2703.65	V	18.45	21.89	40.34	54.00	-13.66	AVG
4981.25	V	40.88	7.89	48.77	74.00	-25.23	peak
9332.05	V	36.52	16.92	53.44	74.00	-20.56	peak
9332.05	V	23.45	16.92	40.37	54.00	-13.63	AVG
14260.00	V	28.57	28.20	56.77	74.00	-17.23	peak
14260.00	V	17.58	28.20	45.78	54.00	-8.22	AVG
18000.00	V	27.66	35.11	62.77	74.00	-11.23	peak
18000.00	V	9.27	35.11	44.38	54.00	-9.62	AVG
21803.75	V	38.87	21.21	60.08	74.00	-13.92	peak
21803.75	V	19.35	21.21	40.56	54.00	-13.44	AVG
26053.75	V	40.37	18.52	58.89	74.00	-15.11	peak
26053.75	V	20.86	18.52	39.38	54.00	-14.62	AVG
2382.95	H	57.51	0.15	57.66	74.00	-16.34	peak
2382.95	H	40.21	0.15	40.36	54.00	-13.64	AVG
2703.65	H	41.09	21.89	62.98	74.00	-11.02	peak
2703.65	H	18.45	21.89	40.34	54.00	-13.66	AVG
4924.00	H	36.33	7.65	43.98	74.00	-30.02	peak
9886.85	H	35.63	17.82	53.45	74.00	-20.55	peak
9886.85	H	23.45	17.82	41.27	54.00	-12.73	AVG
14160.00	H	28.15	28.37	56.52	74.00	-17.48	peak
14160.00	H	17.72	28.37	46.09	54.00	-7.91	AVG
18000.00	H	27.19	35.11	62.30	74.00	-11.70	peak
18000.00	H	7.24	35.11	42.35	54.00	-11.65	AVG
19296.25	H	38.24	22.90	61.14	74.00	-12.86	peak
19296.25	H	19.26	22.90	42.16	54.00	-11.84	AVG
21931.25	H	38.46	21.15	59.61	74.00	-14.39	peak
21931.25	H	19.54	21.15	40.69	54.00	-13.31	AVG
24906.25	H	40.31	19.48	59.79	74.00	-14.21	peak
24906.25	H	19.38	19.48	38.86	54.00	-15.14	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 4: draft 802.11n Standard-20MHz Link Mode				Frequency	2412MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2260.55	V	57.12	0.45	57.57	74.00	-16.43	peak
2260.55	V	39.00	0.45	39.45	54.00	-14.55	AVG
2700.00	V	41.49	22.58	64.07	74.00	-9.93	peak
2700.00	V	18.60	22.58	41.18	54.00	-12.82	AVG
4984.90	V	41.10	7.92	49.02	74.00	-24.98	peak
9857.65	V	35.91	17.88	53.79	74.00	-20.21	peak
9857.65	V	22.34	17.88	40.22	54.00	-13.78	AVG
14120.00	V	28.60	28.41	57.01	74.00	-16.99	peak
14120.00	V	17.58	28.41	45.99	54.00	-8.01	AVG
18000.00	V	27.86	35.11	62.97	74.00	-11.03	peak
18000.00	V	7.54	35.11	42.65	54.00	-11.35	AVG
19508.75	V	38.53	22.69	61.22	74.00	-12.78	peak
19508.75	V	19.44	22.69	42.13	54.00	-11.87	AVG
21803.75	V	38.18	21.21	59.39	74.00	-14.61	peak
21803.75	V	19.62	21.21	40.83	54.00	-13.17	AVG
23695.00	V	39.50	20.33	59.83	74.00	-14.17	peak
23695.00	V	19.76	20.33	40.09	54.00	-13.91	AVG
2320.90	H	57.33	0.26	57.59	74.00	-16.41	peak
2320.90	H	39.87	0.26	40.13	54.00	-13.87	AVG
2703.65	H	41.22	21.89	63.11	74.00	-10.89	peak
2703.65	H	18.34	21.89	40.23	54.00	-13.77	AVG
4824.00	H	36.78	7.48	44.26	74.00	-29.74	peak
9934.30	H	35.64	17.78	53.42	74.00	-20.58	peak
9934.30	H	23.55	17.78	41.33	54.00	-12.67	AVG
14300.00	H	28.52	28.15	56.67	74.00	-17.33	peak
14300.00	H	17.78	28.15	45.93	54.00	-8.07	AVG
18000.00	H	27.81	35.11	62.92	74.00	-11.08	peak
18000.00	H	7.71	35.11	42.82	54.00	-11.18	AVG
19381.25	H	38.70	22.82	61.52	74.00	-12.48	peak
19381.25	H	19.57	22.82	42.39	54.00	-11.61	AVG
22016.25	H	38.64	21.10	59.74	74.00	-14.26	peak
22016.25	H	18.98	21.10	40.08	54.00	-13.92	AVG
25522.50	H	41.01	18.97	59.98	74.00	-14.02	peak
25522.50	H	21.26	18.97	40.23	54.00	-13.77	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 4: draft 802.11n Standard-20MHz Link Mode				Frequency	2437MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2270.75	V	56.53	0.42	56.95	74.00	-17.05	peak
2270.75	V	39.89	0.42	40.31	54.00	-13.69	AVG
2700.00	V	40.29	22.58	62.87	74.00	-11.13	peak
2700.00	V	18.47	22.58	41.05	54.00	-12.95	AVG
4999.50	V	41.44	8.04	49.48	74.00	-24.52	peak
9715.30	V	36.31	17.53	53.84	74.00	-20.16	peak
9715.30	V	23.24	17.53	40.77	54.00	-13.23	AVG
14340.00	V	28.66	28.08	56.74	74.00	-17.26	peak
14340.00	V	17.70	28.08	45.78	54.00	-8.22	AVG
17840.00	V	29.53	33.04	62.57	74.00	-11.43	peak
17840.00	V	7.57	33.04	40.61	54.00	-13.39	AVG
18701.25	V	38.07	23.11	61.18	74.00	-12.82	peak
18701.25	V	19.34	23.11	42.45	54.00	-11.55	AVG
22101.25	V	38.75	21.06	59.81	74.00	-14.19	peak
22101.25	V	19.75	21.06	40.81	54.00	-13.19	AVG
25480.00	V	41.02	18.99	60.01	74.00	-13.99	peak
25480.00	V	21.13	18.99	40.12	54.00	-13.88	AVG
2282.65	H	57.02	0.44	57.46	74.00	-16.54	peak
2282.65	H	40.34	0.44	40.78	54.00	-13.22	AVG
2703.65	H	41.27	21.89	63.16	74.00	-10.84	peak
2703.65	H	18.67	21.89	40.56	54.00	-13.44	AVG
4874.00	H	37.21	7.72	44.93	74.00	-29.07	peak
9897.80	H	35.74	17.78	53.52	74.00	-20.48	peak
9897.80	H	23.16	17.78	40.94	54.00	-13.06	AVG
13820.00	H	28.77	27.50	56.27	74.00	-17.73	peak
13820.00	H	17.99	27.50	45.49	54.00	-8.51	AVG
18000.00	H	27.36	35.11	62.47	74.00	-11.53	peak
18000.00	H	7.67	35.11	42.78	54.00	-11.22	AVG
18786.25	H	38.71	23.14	61.85	74.00	-12.15	peak
18786.25	H	19.42	23.14	42.56	54.00	-11.44	AVG
21846.25	H	38.41	21.20	59.61	74.00	-14.39	peak
21846.25	H	19.74	21.20	40.94	54.00	-13.06	AVG
24396.25	H	40.38	19.72	60.10	74.00	-13.90	peak
24396.25	H	20.34	19.72	40.06	54.00	-13.94	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 4: draft 802.11n Standard-20MHz Link Mode				Frequency	2462MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2336.20	V	57.02	0.27	57.29	74.00	-16.71	peak
2336.20	V	41.02	0.27	41.29	54.00	-12.71	AVG
2703.65	V	41.17	21.89	63.06	74.00	-10.94	peak
2703.65	V	18.45	21.89	40.34	54.00	-13.66	AVG
4977.60	V	41.92	7.87	49.79	74.00	-24.21	peak
9700.70	V	36.43	17.46	53.89	74.00	-20.11	peak
9700.70	V	23.45	17.46	40.91	54.00	-13.09	AVG
14100.00	V	28.34	28.44	56.78	74.00	-17.22	peak
14100.00	V	17.54	28.44	45.98	54.00	-8.02	AVG
17900.00	V	28.14	34.50	62.64	74.00	-11.36	peak
17900.00	V	7.77	34.50	42.27	54.00	-11.73	AVG
19360.00	V	38.36	22.84	61.20	74.00	-12.80	peak
19360.00	V	20.05	22.84	42.89	54.00	-11.11	AVG
22335.00	V	38.84	20.95	59.79	74.00	-14.21	peak
22335.00	V	19.26	20.95	40.21	54.00	-13.79	AVG
23121.25	V	38.79	20.83	59.62	74.00	-14.38	peak
23121.25	V	19.42	20.83	40.25	54.00	-13.75	AVG
2207.85	H	56.69	0.44	57.13	74.00	-16.87	peak
2207.85	H	39.57	0.44	40.01	54.00	-13.99	AVG
2703.65	H	42.12	21.89	64.01	74.00	-9.99	peak
2703.65	H	18.41	21.89	40.30	54.00	-13.70	AVG
4924.00	H	36.88	7.65	44.53	74.00	-29.47	peak
9609.45	H	36.07	17.32	53.39	74.00	-20.61	peak
9609.45	H	23.17	17.32	40.49	54.00	-13.51	AVG
14200.00	H	28.26	28.40	56.66	74.00	-17.34	peak
14200.00	H	17.59	28.40	45.99	54.00	-8.01	AVG
17900.00	H	28.08	34.50	62.58	74.00	-11.42	peak
17900.00	H	7.54	34.50	42.04	54.00	-11.96	AVG
19296.25	H	38.32	22.90	61.22	74.00	-12.78	peak
19296.25	H	19.50	22.90	42.40	54.00	-11.60	AVG
21803.75	H	38.38	21.21	59.59	74.00	-14.41	peak
21803.75	H	20.12	21.21	41.33	54.00	-12.67	AVG
25458.75	H	40.82	19.01	59.83	74.00	-14.17	peak
25458.75	H	21.06	19.01	40.07	54.00	-13.93	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 5: draft 802.11n Wide-40MHz Link Mode				Frequency	2422MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2263.95	V	57.16	0.45	57.61	74.00	-16.39	peak
2263.95	V	40.14	0.45	40.59	54.00	-13.41	AVG
2700.00	V	40.31	22.58	62.89	74.00	-11.11	peak
2700.00	V	18.64	22.58	41.22	54.00	-12.78	AVG
4992.20	V	41.81	7.98	49.79	74.00	-24.21	peak
9959.85	V	35.39	17.82	53.21	74.00	-20.79	peak
9959.85	V	23.15	17.82	40.97	54.00	-13.03	AVG
13980.00	V	28.71	28.16	56.87	74.00	-17.13	peak
13980.00	V	17.63	28.16	45.79	54.00	-8.21	AVG
18000.00	V	27.82	35.11	62.93	74.00	-11.07	peak
18000.00	V	7.37	35.11	42.48	54.00	-11.52	AVG
18892.50	V	38.15	23.15	61.30	74.00	-12.70	peak
18892.50	V	19.76	23.15	42.91	54.00	-11.09	AVG
21931.25	V	38.38	21.15	59.53	74.00	-14.47	peak
21931.25	V	19.15	21.15	40.30	54.00	-13.70	AVG
25522.50	V	40.07	18.97	59.04	74.00	-14.96	peak
25522.50	V	20.92	18.97	39.89	54.00	-14.11	AVG
2274.15	H	57.16	0.43	57.59	74.00	-16.41	peak
2274.15	H	38.97	0.43	39.40	54.00	-14.60	AVG
2703.65	H	41.68	21.89	63.57	74.00	-10.43	peak
2703.65	H	18.47	21.89	40.36	54.00	-13.64	AVG
4844.00	H	36.29	7.67	43.96	74.00	-30.04	peak
9901.45	H	35.94	17.78	53.72	74.00	-20.28	peak
9901.45	H	23.64	17.78	41.42	54.00	-12.58	AVG
14040.00	H	29.77	28.20	57.97	74.00	-16.03	peak
14040.00	H	17.57	28.20	45.77	54.00	-8.23	AVG
18000.00	H	27.85	35.11	62.96	74.00	-11.04	peak
18000.00	H	7.32	35.11	42.43	54.00	-11.57	AVG
18021.25	H	38.81	23.28	62.09	74.00	-11.91	peak
18021.25	H	20.20	23.28	43.48	54.00	-10.52	AVG
21548.75	H	38.02	21.33	59.35	74.00	-14.65	peak
21548.75	H	19.55	21.33	40.88	54.00	-13.12	AVG
26011.25	H	40.73	18.54	59.27	74.00	-14.73	peak
26011.25	H	21.29	18.54	39.83	54.00	-14.17	AVG



Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 5: draft 802.11n Wide-40MHz Link Mode				Frequency	2437MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2244.40	V	56.84	0.46	57.30	74.00	-16.70	peak
2244.40	V	40.54	0.46	41.00	54.00	-13.00	AVG
2700.00	V	40.79	22.58	63.37	74.00	-10.63	peak
2700.00	V	18.37	22.58	40.95	54.00	-13.05	AVG
4995.85	V	40.89	8.01	48.90	74.00	-25.10	peak
9489.00	V	36.76	16.84	53.60	74.00	-20.40	peak
9489.00	V	23.22	16.84	40.06	54.00	-13.94	AVG
14240.00	V	28.94	28.25	57.19	74.00	-16.81	peak
14240.00	V	17.63	28.25	45.88	54.00	-8.12	AVG
18000.00	V	28.08	35.11	63.19	74.00	-10.81	peak
18000.00	V	7.34	35.11	42.45	54.00	-11.55	AVG
18276.25	V	38.85	23.21	62.06	74.00	-11.94	peak
18276.25	V	20.43	23.21	43.64	54.00	-10.36	AVG
21612.50	V	38.14	21.28	59.42	74.00	-14.58	peak
21612.50	V	19.58	21.28	40.86	54.00	-13.14	AVG
25395.00	V	40.21	19.04	59.25	74.00	-14.75	peak
25395.00	V	20.95	19.04	39.99	54.00	-14.01	AVG
2273.30	H	57.01	0.43	57.44	74.00	-16.56	peak
2273.30	H	40.35	0.43	40.78	54.00	-13.22	AVG
2700.00	H	40.64	22.58	63.22	74.00	-10.78	peak
2700.00	H	18.67	22.58	41.25	54.00	-12.75	AVG
4874.00	H	36.23	7.72	43.95	74.00	-30.05	peak
9419.65	H	36.06	17.06	53.12	74.00	-20.88	peak
9419.65	H	23.57	17.06	40.63	54.00	-13.37	AVG
14300.00	H	28.90	28.15	57.05	74.00	-16.95	peak
14300.00	H	17.65	28.15	45.80	54.00	-8.20	AVG
17880.00	H	29.15	33.90	63.05	74.00	-10.95	peak
17880.00	H	7.54	33.90	41.44	54.00	-12.56	AVG
18276.25	H	37.92	23.21	61.13	74.00	-12.87	peak
18276.25	H	20.47	23.21	43.68	54.00	-10.32	AVG
21867.50	H	38.14	21.19	59.33	74.00	-14.67	peak
21867.50	H	19.59	21.19	40.78	54.00	-13.22	AVG
25990.00	H	40.68	18.56	59.24	74.00	-14.76	peak
25990.00	H	21.58	18.56	40.14	54.00	-13.86	AVG

Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 5: draft 802.11n Wide-40MHz Link Mode				Frequency	2452MHz	
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2295.40	V	56.69	0.48	57.17	74.00	-16.83	peak
2295.40	V	39.68	0.48	40.16	54.00	-13.84	AVG
2700.00	V	41.58	22.58	64.16	74.00	-9.84	peak
2700.00	V	18.67	22.58	41.25	54.00	-12.75	AVG
4992.20	V	43.06	7.98	51.04	74.00	-22.96	peak
4992.20	V	25.06	7.98	33.04	54.00	-20.96	AVG
9602.15	V	36.11	17.40	53.51	74.00	-20.49	peak
9602.15	V	23.57	17.40	40.97	54.00	-13.03	AVG
14280.00	V	28.99	28.17	57.16	74.00	-16.84	peak
14280.00	V	17.66	28.17	45.83	54.00	-8.17	AVG
17940.00	V	28.89	34.25	63.14	74.00	-10.86	peak
17940.00	V	7.60	34.25	41.85	54.00	-12.15	AVG
18680.00	V	38.35	23.09	61.44	74.00	-12.56	peak
18680.00	V	19.57	23.09	42.66	54.00	-11.34	AVG
21570.00	V	37.80	21.31	59.11	74.00	-14.89	peak
21570.00	V	19.44	21.31	40.75	54.00	-13.25	AVG
23610.00	V	39.34	20.44	59.78	74.00	-14.22	peak
23610.00	V	19.53	20.44	39.97	54.00	-14.03	AVG
2257.15	H	57.39	0.46	57.85	74.00	-16.15	peak
2257.15	H	40.14	0.46	40.60	54.00	-13.40	AVG
2703.65	H	41.28	21.89	63.17	74.00	-10.83	peak
2703.65	H	18.97	21.89	40.86	54.00	-13.14	AVG
4904.00	H	36.70	7.71	44.41	74.00	-29.59	peak
9879.55	H	35.65	17.82	53.47	74.00	-20.53	peak
9879.55	H	23.87	17.82	41.69	54.00	-12.31	AVG
14200.00	H	28.98	28.40	57.38	74.00	-16.62	peak
14200.00	H	17.64	28.40	46.04	54.00	-7.96	AVG
18000.00	H	28.22	35.11	63.33	74.00	-10.67	peak
18000.00	H	7.29	35.11	42.40	54.00	-11.60	AVG
18233.75	H	38.06	23.21	61.27	74.00	-12.73	peak
18233.75	H	20.88	23.21	44.09	54.00	-9.91	AVG
21888.75	H	38.56	21.18	59.74	74.00	-14.26	peak
21888.75	H	19.50	21.18	40.68	54.00	-13.32	AVG
25968.75	H	40.97	18.58	59.55	74.00	-14.45	peak
25968.75	H	21.61	18.58	40.19	54.00	-13.81	AVG

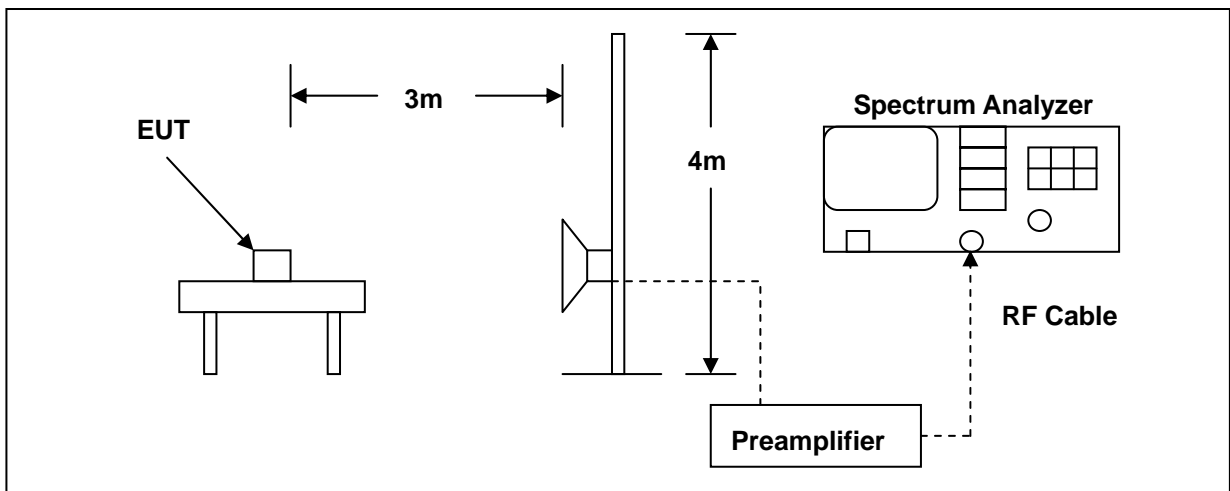
Product	WLAN Module						
Test Item	Transmitter Radiated Emissions						
Test Mode	Mode 6: Receiver Mode						
Date of Test	03/03/2010				Test Site	TE02	
Freq	Polarization (V/H)	Rd_level (dBuV)	Factor	Level (dBuV/m)	Limit (dBuV/m)	Over	detector
2316.65	V	55.66	0.29	55.95	74.00	-18.05	peak
2316.65	V	39.73	0.29	40.02	54.00	-13.98	AVG
2700.00	V	40.09	22.58	62.67	74.00	-11.33	peak
2700.00	V	18.42	22.58	41.00	54.00	-13.00	AVG
9817.50	V	33.58	17.75	51.33	74.00	-22.67	peak
9817.50	V	23.38	17.75	41.13	54.00	-12.87	AVG
13900.00	V	28.08	28.07	56.15	74.00	-17.85	peak
13900.00	V	17.28	28.07	45.35	54.00	-8.65	AVG
17860.00	V	27.98	33.32	61.30	74.00	-12.70	peak
17860.00	V	7.64	33.32	40.96	54.00	-13.04	AVG
18828.75	V	37.30	23.15	60.45	74.00	-13.55	peak
18828.75	V	20.60	23.15	43.75	54.00	-10.25	AVG
21527.50	V	37.95	21.35	59.30	74.00	-14.70	peak
21527.50	V	19.72	21.35	41.07	54.00	-12.93	AVG
25990.00	V	40.31	18.56	58.87	74.00	-15.13	peak
25990.00	V	22.02	18.56	40.58	54.00	-13.42	AVG
2391.45	H	55.40	0.16	55.56	74.00	-18.44	peak
2391.45	H	40.12	0.16	40.28	54.00	-13.72	AVG
2703.65	H	40.71	21.89	62.60	74.00	-11.40	peak
2703.65	H	18.67	21.89	40.56	54.00	-13.44	AVG
9937.95	H	35.17	17.78	52.95	74.00	-21.05	peak
9937.95	H	23.68	17.78	41.46	54.00	-12.54	AVG
14360.00	H	27.61	27.95	55.56	74.00	-18.44	peak
14360.00	H	17.73	27.95	45.68	54.00	-8.32	AVG
17900.00	H	28.68	34.50	63.18	74.00	-10.82	peak
17900.00	H	7.79	34.50	42.29	54.00	-11.71	AVG
18743.75	H	38.28	23.13	61.41	74.00	-12.59	peak
18743.75	H	19.33	23.13	42.46	54.00	-11.54	AVG
21803.75	H	38.07	21.21	59.28	74.00	-14.72	peak
21803.75	H	19.89	21.21	41.10	54.00	-12.90	AVG
25076.25	H	40.00	19.31	59.31	74.00	-14.69	peak
25076.25	H	20.50	19.31	39.81	54.00	-14.19	AVG

## 6 Band Edges Measurement

### 6.1. Limit

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

### 6.2. Test Setup



### 6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY45107753	01/27/2009	(2)
Pre Amplifier	Agilent	8449B	3008A02237	01/20/2009	(1)
Horn Antenna	SCHWARZBECK MESS-ELEKTRONIK	9120D	9120D-550	07/01/2009	(2)
Test Site	ATL	TE06	TE06	N.C.R.	-----

Remark: <sup>(1)</sup> Calibration period 1 year. <sup>(2)</sup> Calibration period 2 years.

NOTE: N.C.R. = No Calibration Request.

#### 6.4. Test Procedure

The EUT was setup to ANSI C63.4, 2003; tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

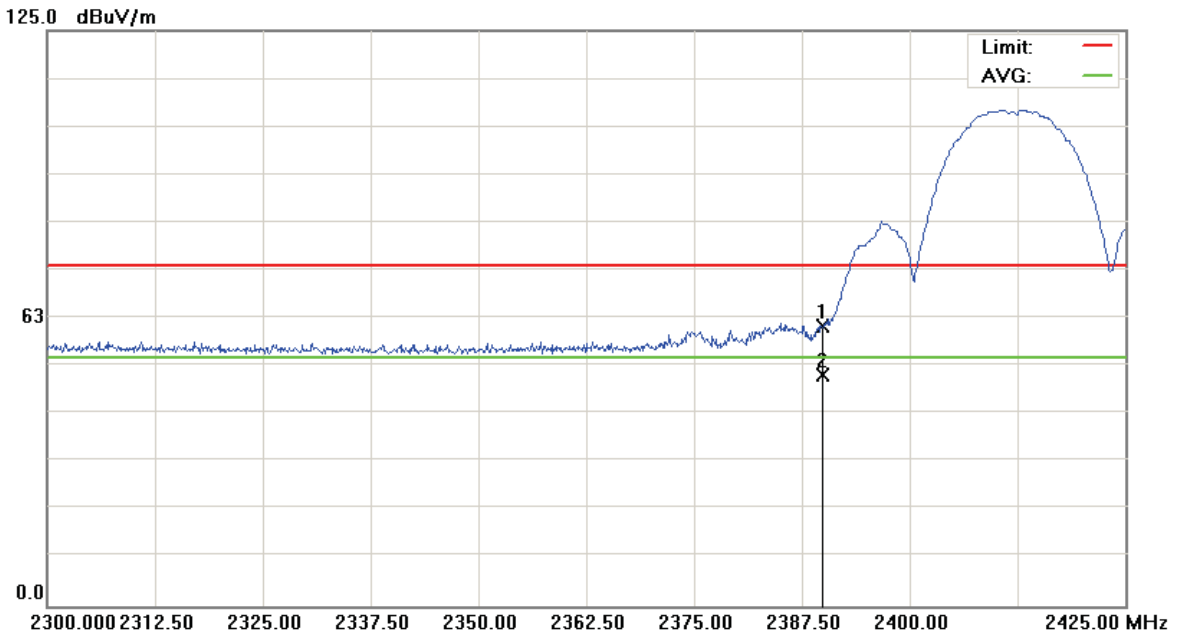
The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

#### 6.5. Test Graphs

Product	WLAN Module		
Test Item	Band Edges		
Test Mode	Mode 2: IEEE 802.11b Link Mode Mode 3: IEEE 802.11g Link Mode Mode 4: draft 802.11n Standard-20MHz Link Mode Mode 5: draft 802.11n Wide-40MHz Link Mode		
Date of Test	03/02 ~ 03/03/2010	Test Site	TE02

File :AR5B95(Band Edge)      Data :#1      Date:2010/3/2      Time: 下午 10:02:33

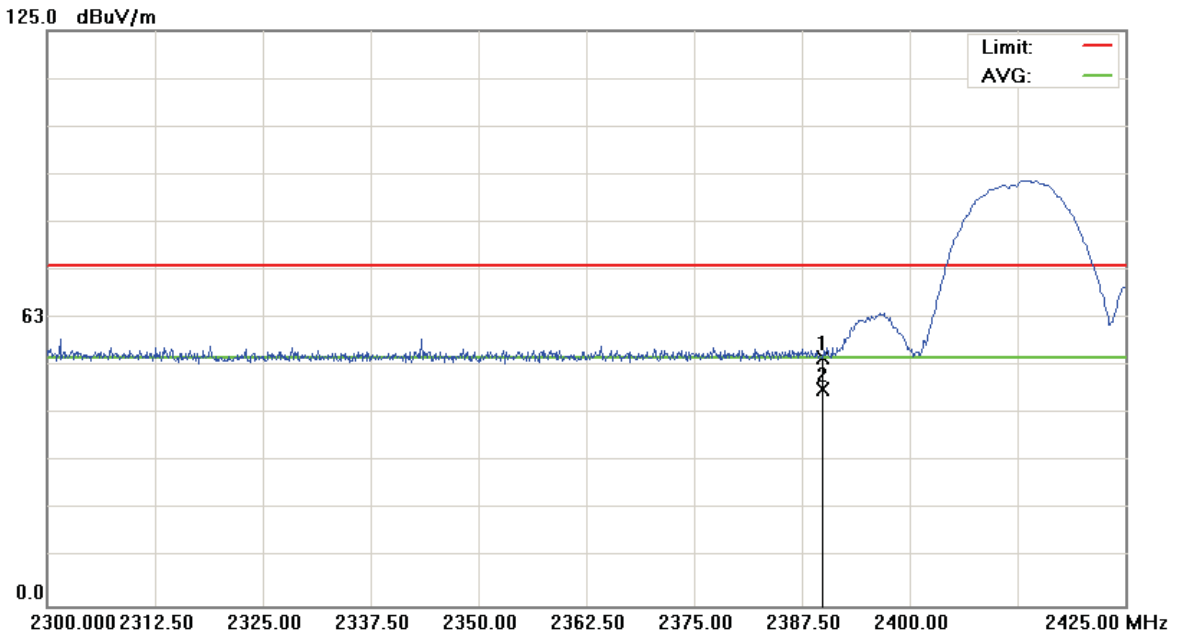


Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 2		
Note: CH01(2412MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	60.68	0.16	60.84	74.00	-13.16			peak
2	*	2389.800	49.98	0.16	50.14	54.00	-3.86			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#5      Date:2010/3/2      Time: 下午 10:07:35

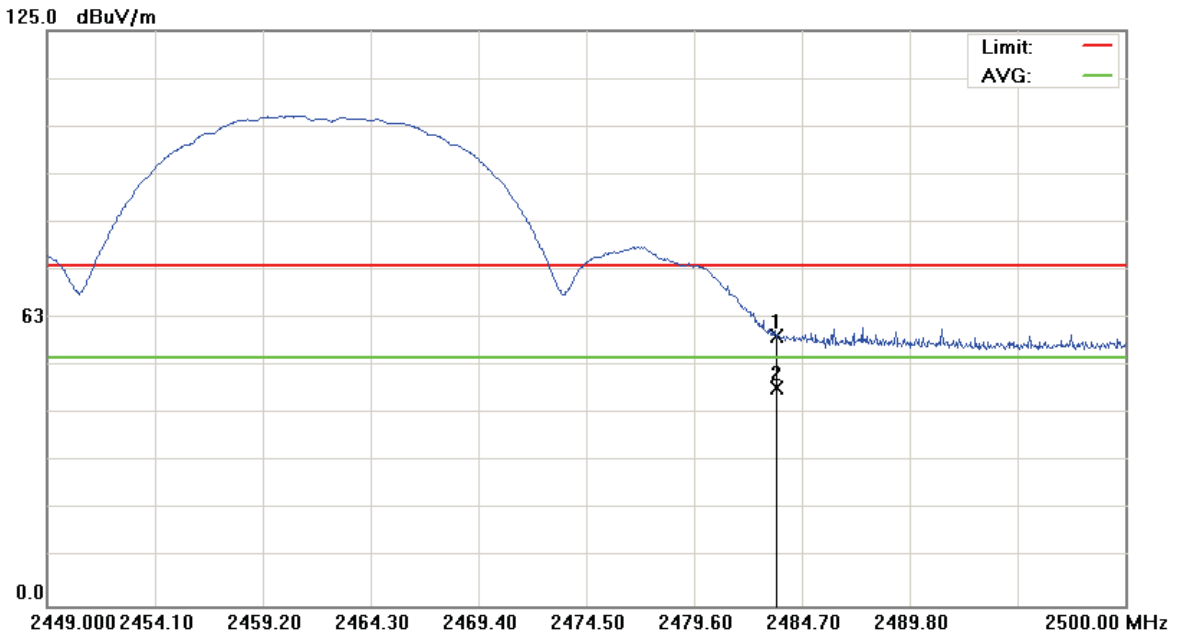


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 2		
Note: CH01(2412MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	53.71	0.16	53.87	74.00	-20.13			peak
2	*	2389.800	46.78	0.16	46.94	54.00	-7.06			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#3      Date:2010/3/2      Time: 下午 09:49:46



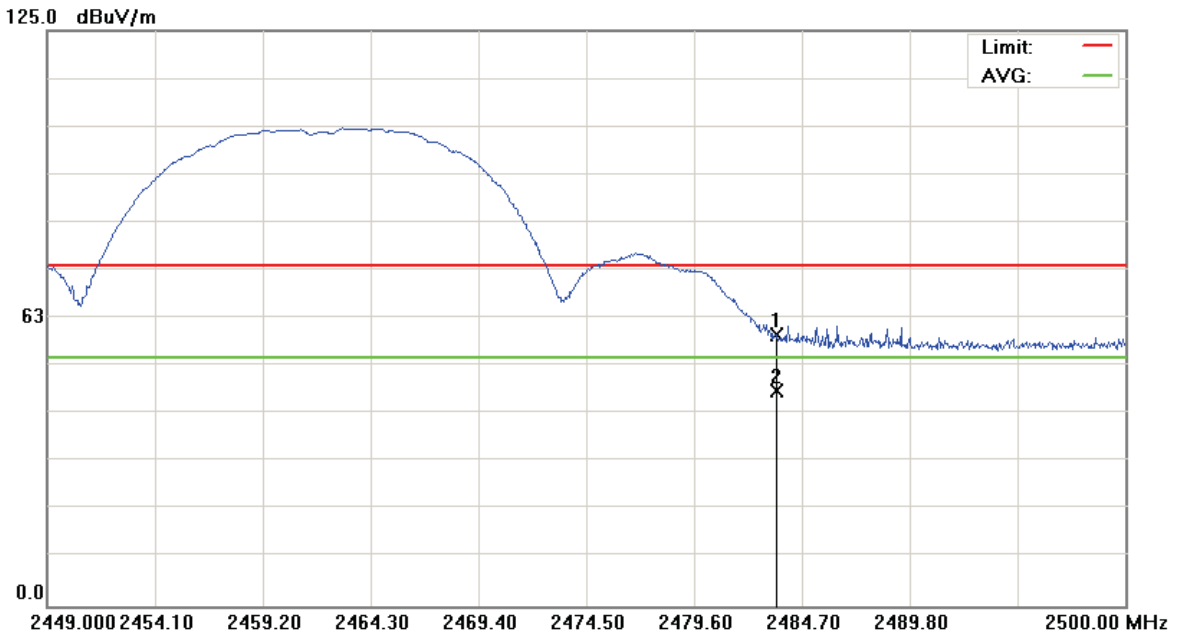
Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 2		
Note: CH11(2462MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	58.25	0.25	58.50	74.00	-15.50			peak
2	*	2483.510	46.97	0.25	47.22	54.00	-6.78			AVG

\*:Maximum data    x:Over limit    !:over margin



File :AR5B95(Band Edge)      Data :#7      Date:2010/3/2      Time: 下午 09:53:29

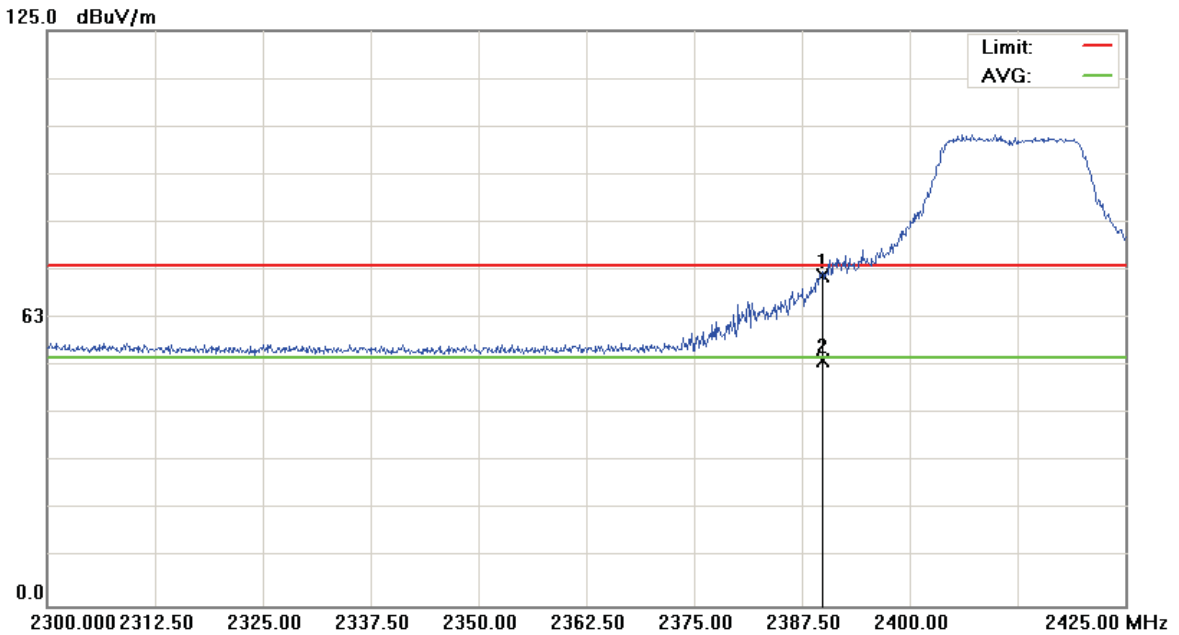


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 2		
Note: CH11(2462MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	58.58	0.25	58.83	74.00	-15.17	peak		
2	*	2483.510	46.50	0.25	46.75	54.00	-7.25	AVG		

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#1      Date:2010/3/2      Time: 下午 10:22:12

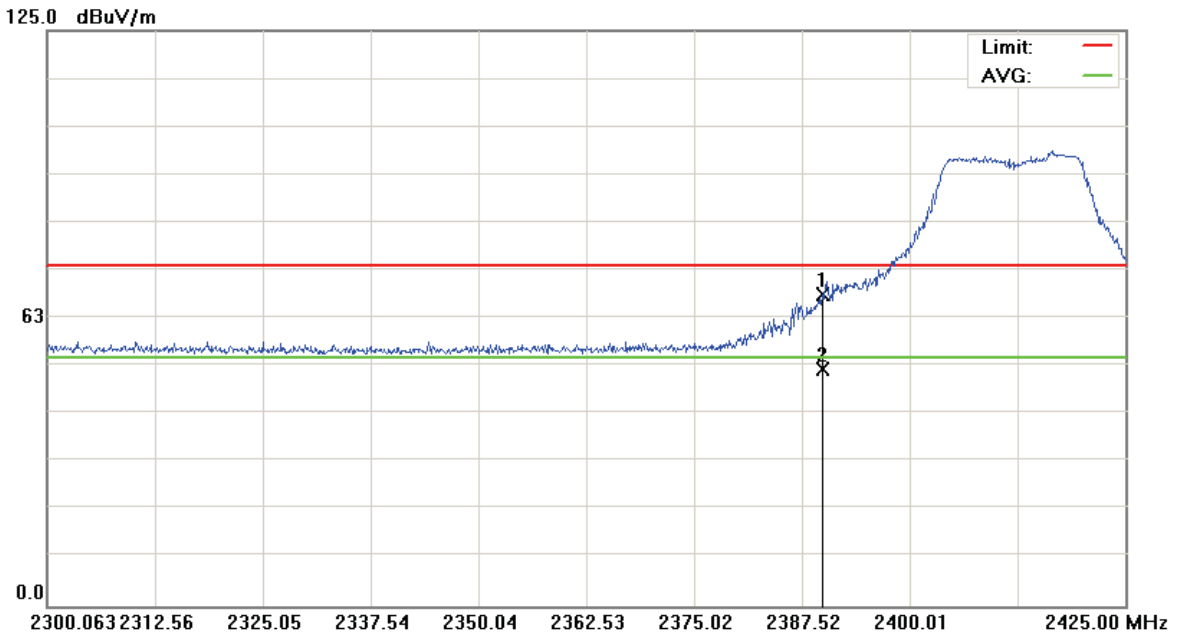


Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 3		
Note: CH01(2412MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	71.58	0.16	71.74	74.00	-2.26	peak		
2	*	2389.800	53.15	0.16	53.31	54.00	-0.69	AVG		

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#5      Date:2010/3/2      Time: 下午 10:32:11

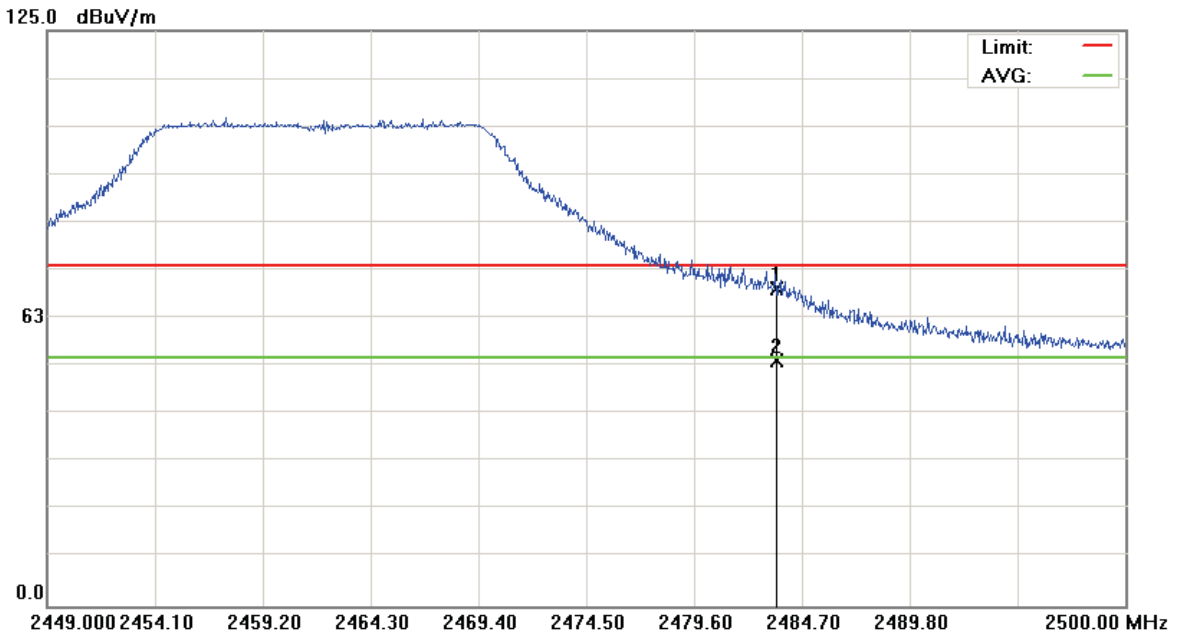


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 3		
Note: CH01(2412MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	67.54	0.16	67.70	74.00	-6.30			peak
2	*	2389.800	51.31	0.16	51.47	54.00	-2.53			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#3      Date:2010/3/2      Time: 下午 10:37:32

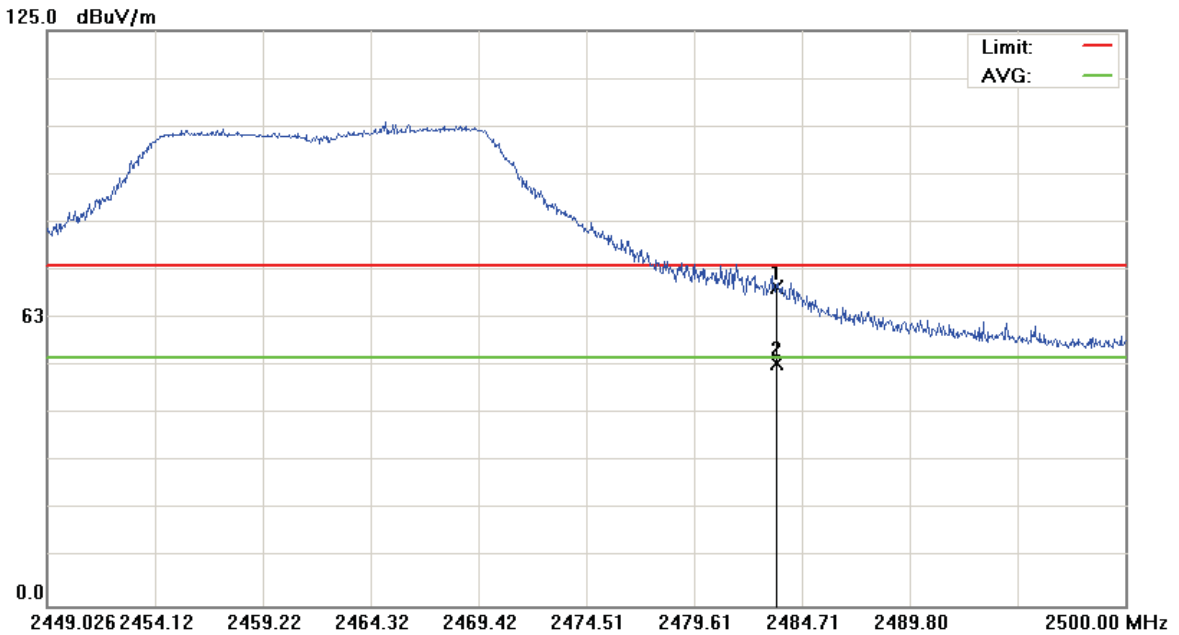


Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 3		
Note: CH11(2462MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	68.55	0.25	68.80	74.00	-5.20			peak
2	*	2483.510	52.96	0.25	53.21	54.00	-0.79			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#7      Date:2010/3/2      Time: 下午 10:41:29

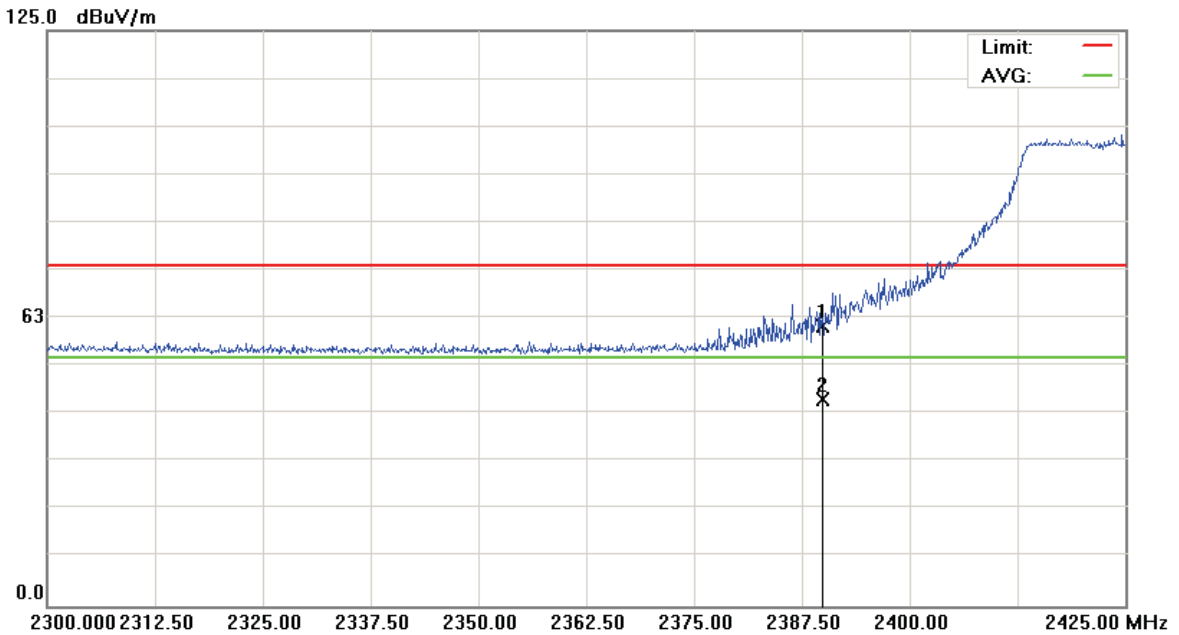


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 3		
Note: CH11(2462MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	69.08	0.25	69.33	74.00	-4.67			peak
2	*	2483.510	52.39	0.25	52.64	54.00	-1.36			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#1      Date:2010/3/2      Time: 下午 11:17:19

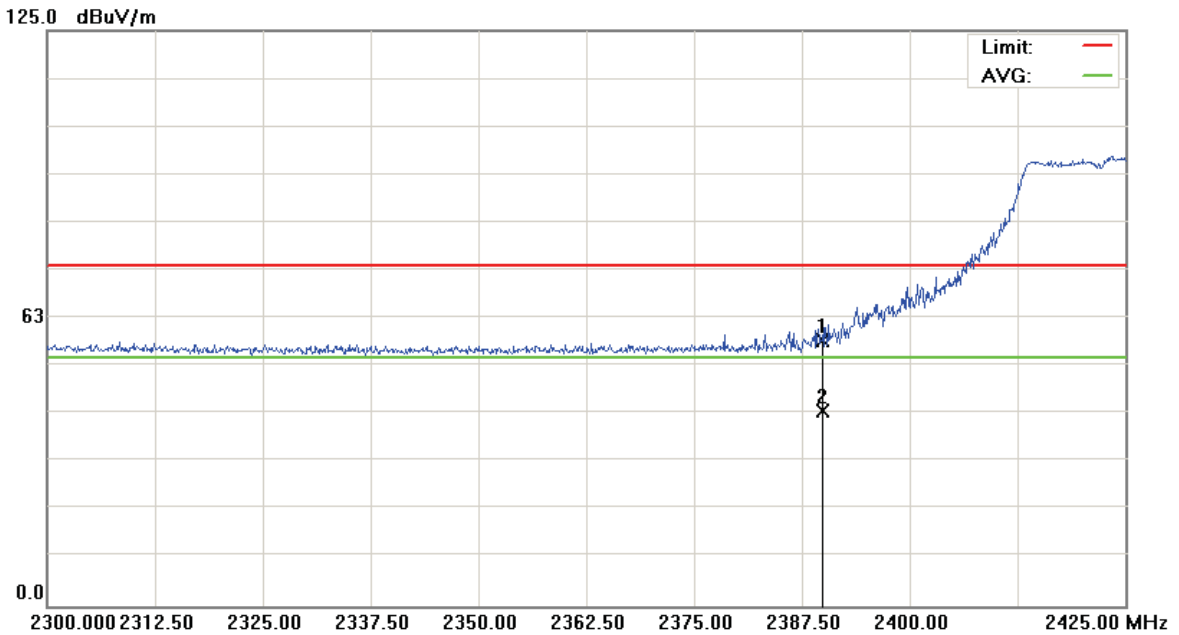


Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 4		
Note: CH01(2412MHz)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2389.800	60.72	0.16	60.88	74.00	-13.12			peak
2	*	2389.800	44.62	0.16	44.78	54.00	-9.22			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#5      Date:2010/3/3      Time: 上午 12:07:56

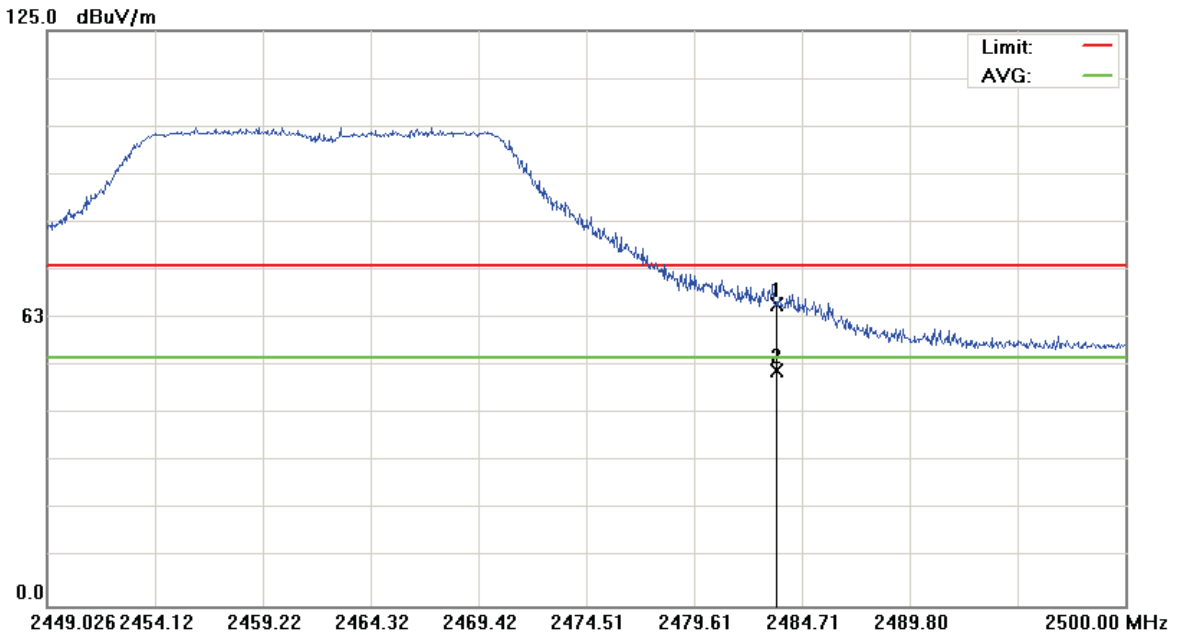


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 4		
Note: CH01(2412MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	57.43	0.16	57.59	74.00	-16.41			peak
2	*	2389.800	42.07	0.16	42.23	54.00	-11.77			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#3      Date:2010/3/2      Time: 下午 10:50:30



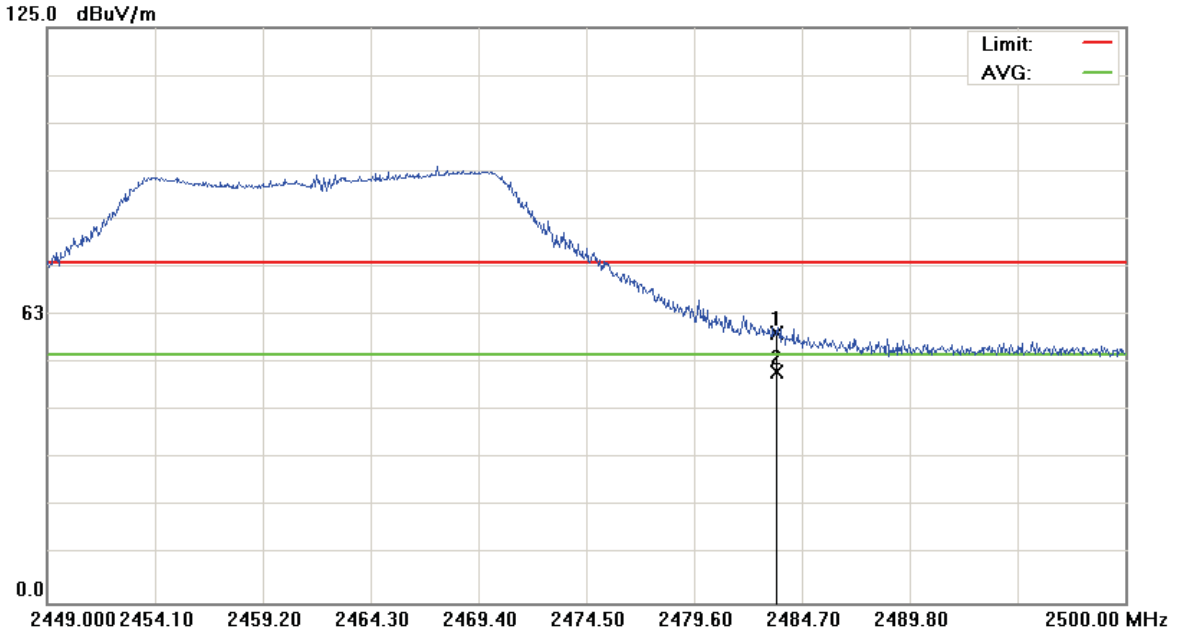
Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 4		
Note: CH11(2462MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	65.24	0.25	65.49	74.00	-8.51	peak		
2	*	2483.510	50.92	0.25	51.17	54.00	-2.83	AVG		

\*:Maximum data    x:Over limit    !:over margin



File :AR5B95(Band Edge)      Data :#7      Date:2010/3/2      Time: 下午 10:53:15

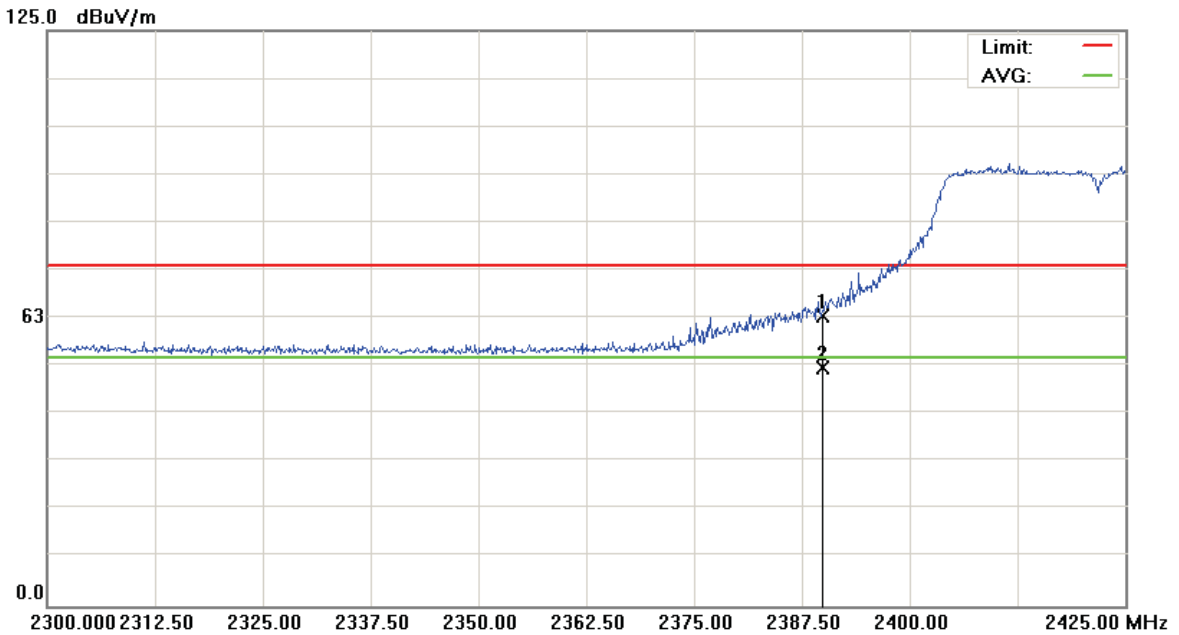


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 4		
Note: CH11(2462MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	58.45	0.25	58.70	74.00	-15.30	peak		
2	*	2483.510	49.77	0.25	50.02	54.00	-3.98	AVG		

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#1      Date:2010/3/2      Time: 下午 11:07:05

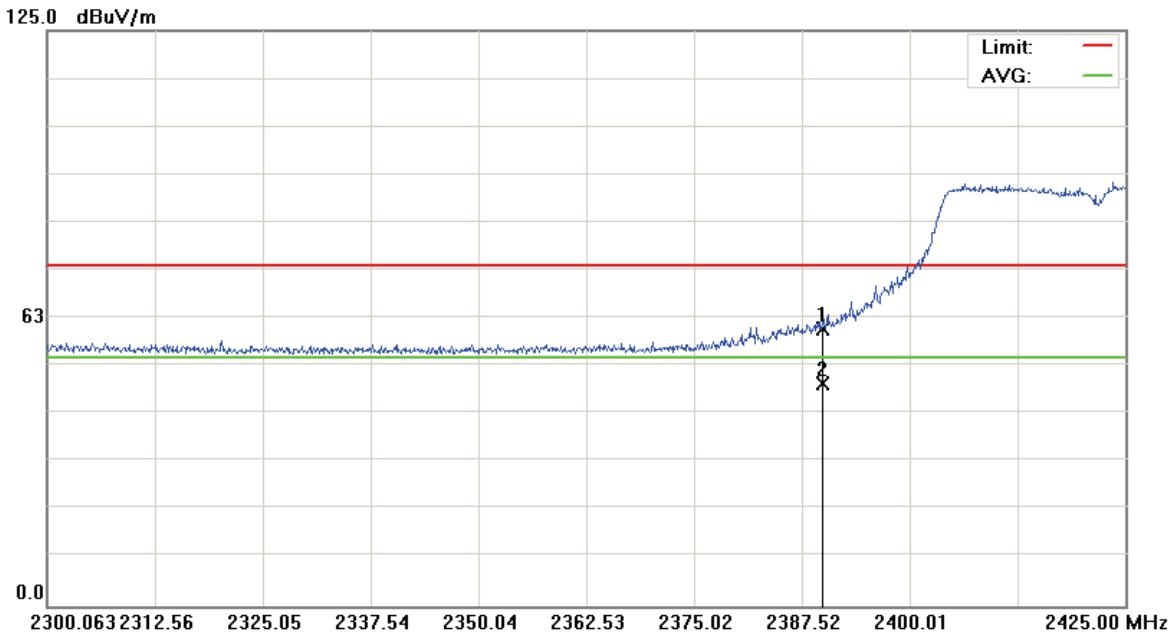


Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 5		
Note: CH03(2422MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	62.85	0.16	63.01	74.00	-10.99	peak		
2	*	2389.800	51.58	0.16	51.74	54.00	-2.26	AVG		

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#5      Date:2010/3/2      Time: 下午 11:10:19

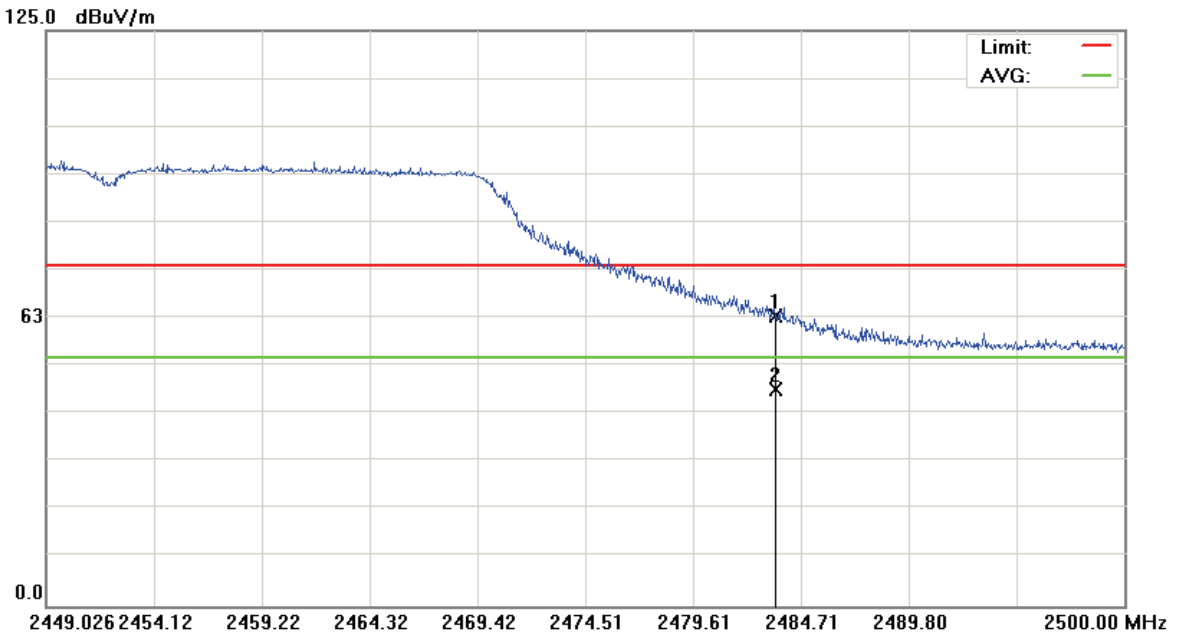


Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 5		
Note: CH03(2422MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2389.800	59.85	0.16	60.01	74.00	-13.99			peak
2	*	2389.800	48.03	0.16	48.19	54.00	-5.81			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#3      Date:2010/3/2      Time: 下午 10:58:59

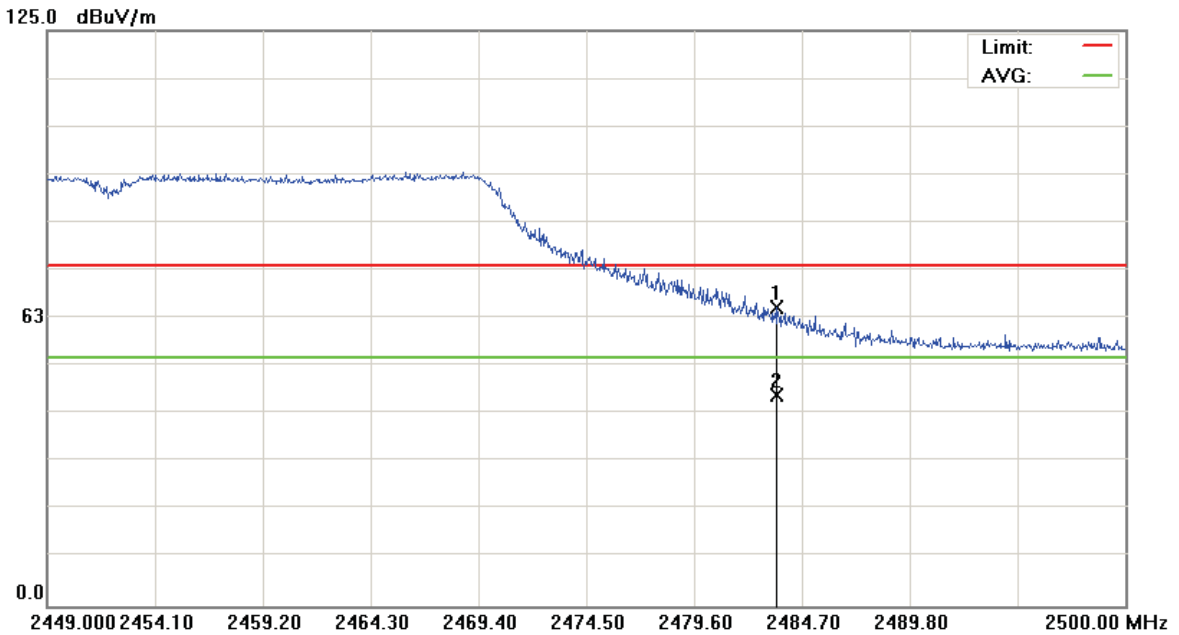


Site: :966 Chamber	Polarization: <i>Vertical</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 5		
Note: CH09(2452MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	62.57	0.25	62.82	74.00	-11.18			peak
2	*	2483.510	46.73	0.25	46.98	54.00	-7.02			AVG

\*:Maximum data    x:Over limit    !:over margin

File :AR5B95(Band Edge)      Data :#7      Date:2010/3/2      Time: 下午 11:03:01



Site: :966 Chamber	Polarization: <i>Horizontal</i>	Temperature: 22 °C
Limit: FCC part 15 (PK)	Power:	Humidity: 60 %
EUT: WLAN Module	Distance: 3m	RBW: 1000 KHz VBW: 1000 KHz
M/N: AR5B95		
Mode: 5		
Note: CH09(2452MHz)		

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.510	64.53	0.25	64.78	74.00	-9.22			peak
2	*	2483.510	45.62	0.25	45.87	54.00	-8.13			AVG

\*:Maximum data    x:Over limit    !:over margin

## **7 Antenna Requirements**

### **7.1. Limit**

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **7.2. Antenna Connector Construction**

The antenna used in this product is **PIFA antenna**. The gain of the main antenna is -0.71dBi and aux antenna is 0.27dBi.