



ISO/IEC17025 Accredited Lab.

Report No: FCC TW1106117  
File reference No: 2012-02-18

Applicant: B-LINK ELECTRONIC LIMITED

Product: WIFI Router/AP

Model No: BL-WA01

Trademark: B-Link

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4 FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung  
Manager

Dated: Feb 18, 2012

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD**

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### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

#### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd. CheGongMiao,FuTian District, Shenzhen, CHINA.  
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Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-01  
For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: B-LINK ELECTRONIC LIMITED  
Address: RenMing Road, FuMin Village, GuanLan, Baoan Distri, Shenzhen.  
Telephone: 86-755-28023453  
Fax: 86-755-28023453

### 1.3 Description of EUT

Product:	WIFI Router/AP
Manufacturer:	B-LINK ELECTRONIC LIMITED
Address:	RenMing Road, FuMin Village, GuanLan, Baoan Distri, Shenzhen.
Brand Name:	B-Link
Model Number:	BL-WA01
Additional Model Number:	N/A
Power Adapter	Model: YMK09-0500500A, Input :110-240V/AC, 50/60Hz,100mA; Output: DC5V ±0.5V, DC500mA ± 50mA
Type of Modulation	IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g : OFDM (64QAM, 16AQM, QPSK, BPSK) IEEE 802.11n HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency range	IEEE 802.11b/g, 802.11n HT20: 2412-2462MHz IEEE 802.11n HT40 : 2422MHz-2452MHz
Channel Spacing	IEEE 802.11b/g/n: 5MHz
Air Data Rate	IEEE 802.11b : 11, 5.5, 2, 1 Mbps IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE 802.11n HT20 : 150, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps IEEE 802.11n HT40 : 150, 117 ,104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps
Frequency Selection	By software

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Channel Number IEEE 802.11b/g ,802.11n HT20 : 11 Channels  
IEEE 802.11n HT40 : 7 Channels  
Antenna: Ceramic Antenna with maximum gain 2.5dBi

1.4 Submitted Sample: 2 Sample

1.5 Test Duration  
2011-10-18 to 2012-02-16

1.6 Test Uncertainty  
Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer *Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang



2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2011-08-26	2012-08-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2011-08-26	2012-08-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2011-08-26	2012-08-25
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2011-08-26	2012-08-25
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2011-08-26	2012-08-25
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2011-08-26	2012-08-25
System Controller	CT	SC100	-	--	--
Printer	EPSON	PHOTO EX3	CFNH234850	--	--
Computer	IBM	8434	1S8434KCE99BLXL O*	--	--
Loop Antenna	EMCO	6502	00042960	2011-08-26	2012-08-25
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2011-08-26	2012-08-25
3m OATS	--	--	N/A	2011-08-26	2012-08-25
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2011-08-26	2012-08-25
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2011-08-26	2012-08-25
Power meter	Anritsu	ML2487A	6K00003613	2011-08-26	2012-08-25
Power sensor	Anritsu	MA2491A	32263	2011-08-26	2012-08-25
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2011-08-26	2012-08-25
LISN	AFJ	LS16C	10010947251	2011-08-26	2012-08-25
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2011-08-26	2012-08-25
9*6*6 Anechoic	--	--	N/A	2011-08-26	2012-08-25
EMI Test Receiver	RS	ESCS30	100139	2011-08-26	2012-08-25
LISN	AFJ	LS16C	10010947251	2011-08-26	2012-08-25
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2011-08-26	2012-08-25

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2.1 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
Earphone	--	--	--	--	--
TF	--	--	Kingston	--	--
PC	R400	--	IBM	--	FCC ID
Mouse	M-F105	--	L.SEletron	--	FCC DOC
Keyboard	KB-0225	--	IBM	--	FCC DOC

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### 3. DESCRIPTION OF TEST MODES

#### IEEE 802.11b, 802.11g mode and 802.11n HT20

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Mid	2437
High	2462

IEEE 802.11b mode: 11Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 54Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n HT20 mode: 65Mbps data rate (worst case) was chosen for full testing.

#### IEEE 802.11n HT40

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Mid	2437
High	2452

IEEE 802.11n HT40 mode: 65Mbps data rate (worst case) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.





### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.107 &amp; 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth&gt;500kHz</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.109,15.205 &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(e)</b>	<b>Power Spectral Density Limit: max. 8dBm</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>PASS</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

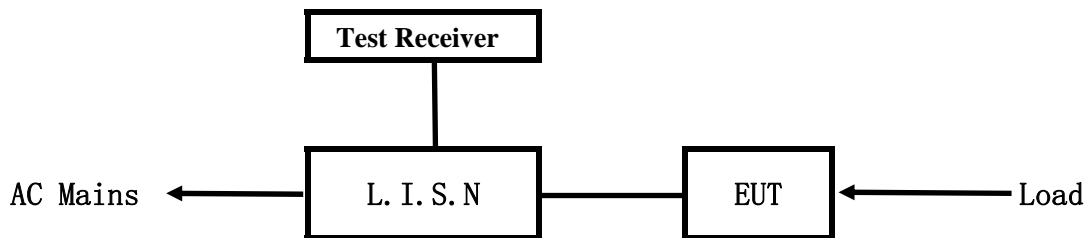
#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co.,Ltd**

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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test



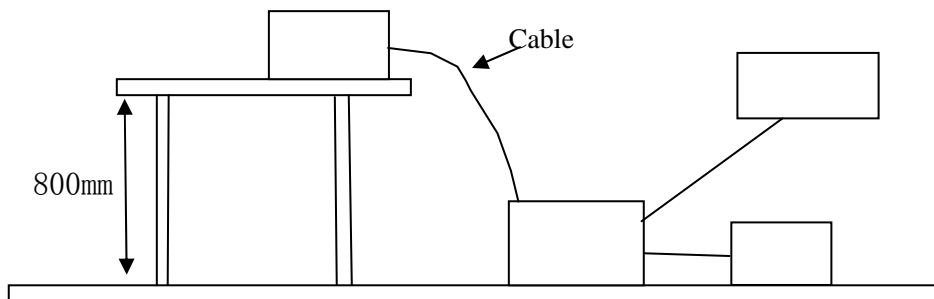
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
WIFI Router/AP	B-LINK ELECTRONIC LIMITED	BL-WA01	X2NBL-WAXX

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency (MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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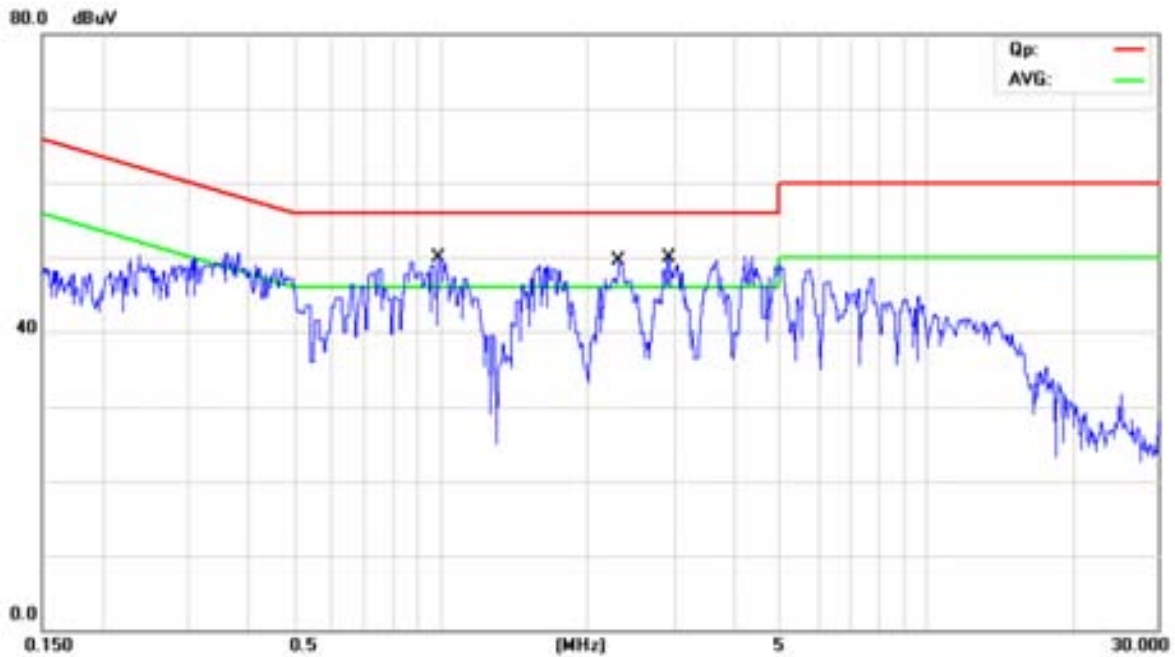


**A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.973	43.87	28.17	--	--	56.00	46.00
2.322	40.31	28.46	--	--	56.00	46.00
2.914	41.07	26.17	--	--	56.00	46.00

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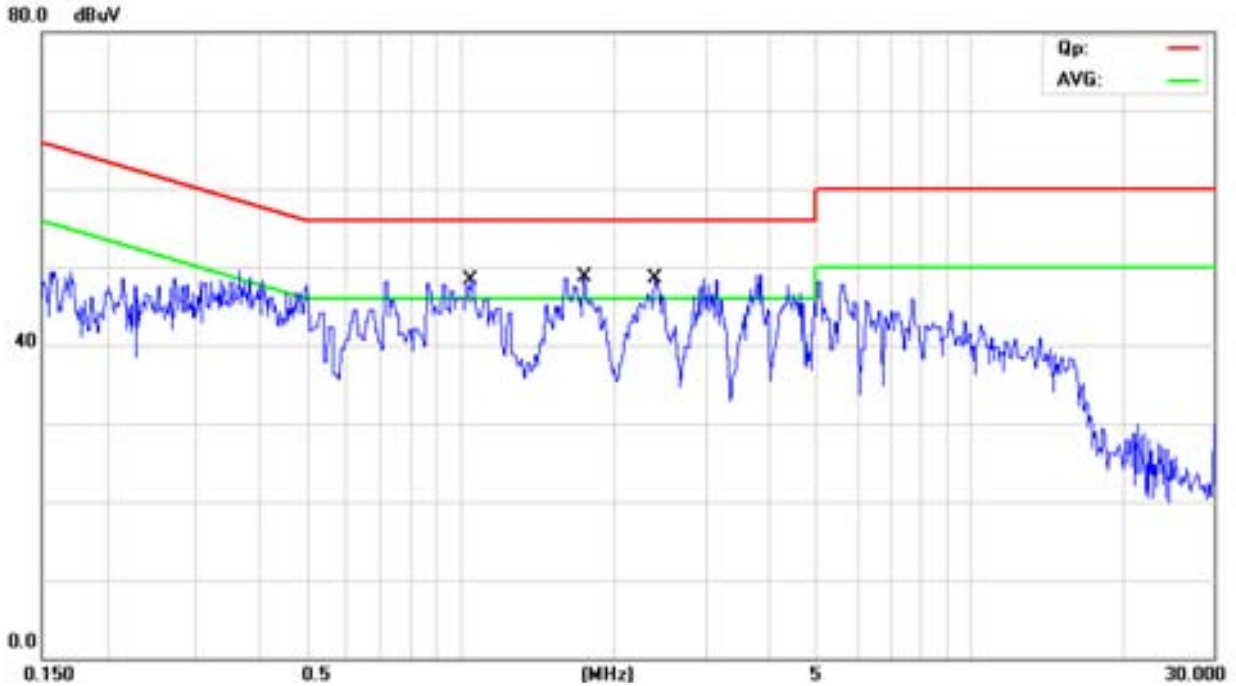


**B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Keep Transmitting

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
1.048	--	--	40.22	24.32	56.00	46.00
1.737	--	--	41.61	28.39	56.00	46.00
2.395	--	--	40.79	32.06	56.00	46.00

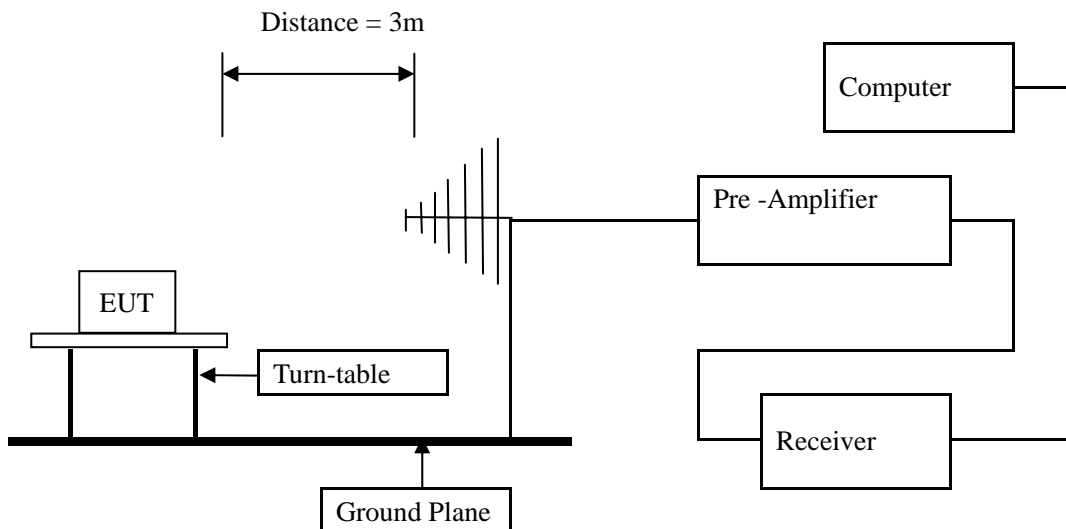
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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Transmitting

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
122.150	33.06	H	43.50
151.250	33.46	H	43.50
211.875	38.69	H	43.50
240.975	40.77	H	46.00
354.950	36.18	H	46.00
721.125	38.71	H	46.00
51.825	33.52	V	40.00
127.000	33.04	V	43.50
153.675	33.36	V	43.50
245.825	40.87	V	46.00
274.925	40.38	V	46.00
602.300	37.41	V	46.00

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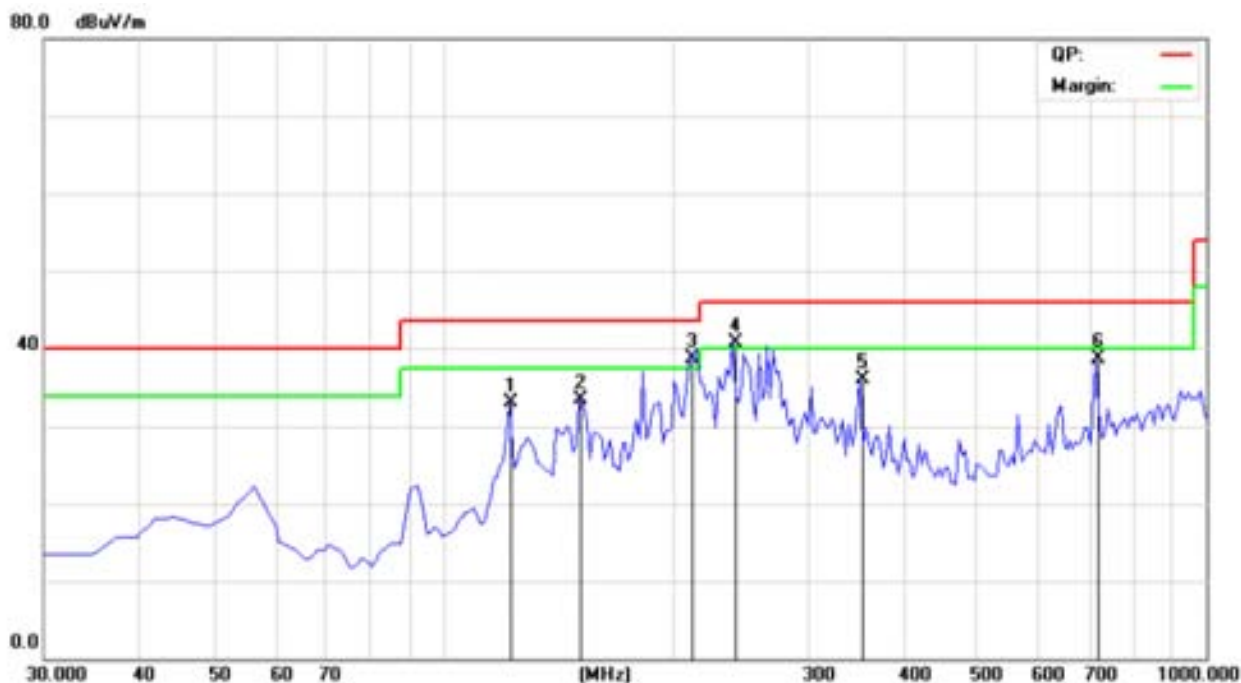
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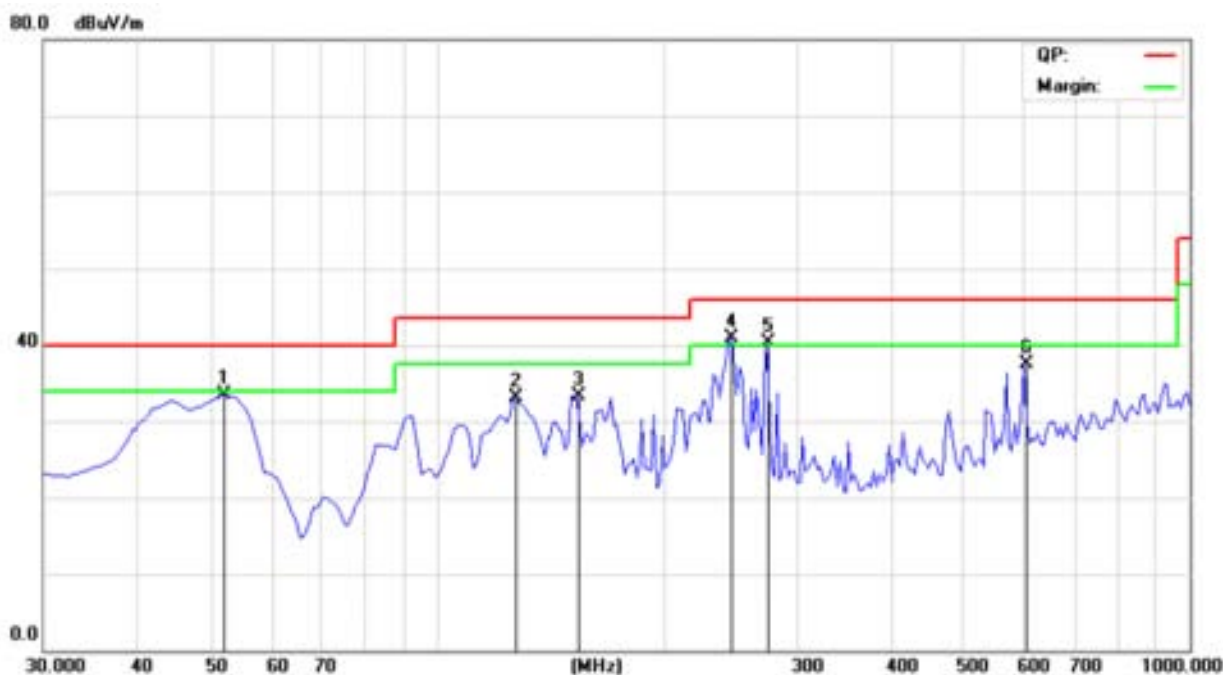
Test Figure:

H



Test Figure:

V



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**Operation Mode: Transmitting & Receiving under CH01 for 11b at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	97.26 (PK))	H	Fundamental Frequency
2412.00	98.76 (PK)	V	
4824.00	47.82 (PK))	H	--
4824.00	49.59 (PK)	V	
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16884	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “--” means that the emissions level is too low to be measured  
 3. For 802.11b mode at 11Mbps

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**Operation Mode: Transmitting & Receiving under CH06 for 11b at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	96.13 (PK)	H	Fundamental Frequency
2437.00	98.15 (PK)	V	
4874.00	49.01 (PK)	H	--
4874.00	48.00 (PK)	V	
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11b mode at 11Mbps

**Operation Mode: Transmitting & Receiving under CH11 for 11b at 11Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	96.38 (PK)	H	Fundamental Frequency
2462.00	98.17 (PK)	V	
4924	46.79 (PK)	H	--
4924	50.63 (PK)	V	
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

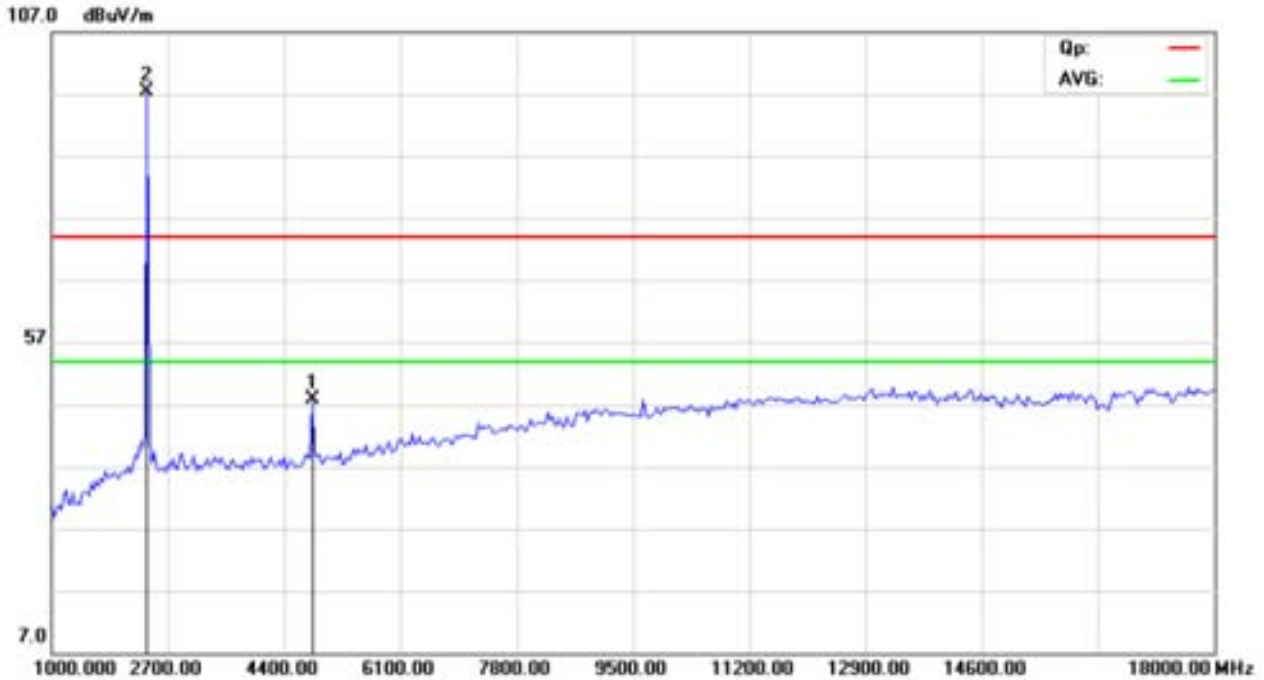
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11b mode at 11Mbps

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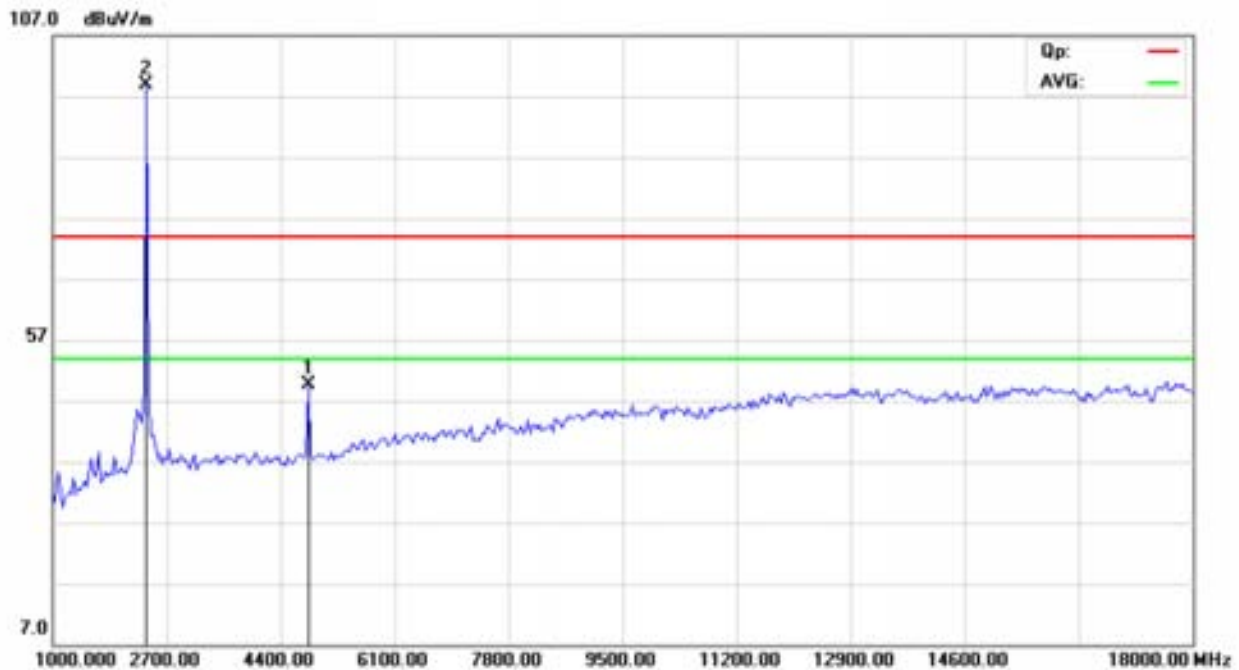


Please refer to the following test plots for details:

**CH01 at 11Mbps: Horizontal**



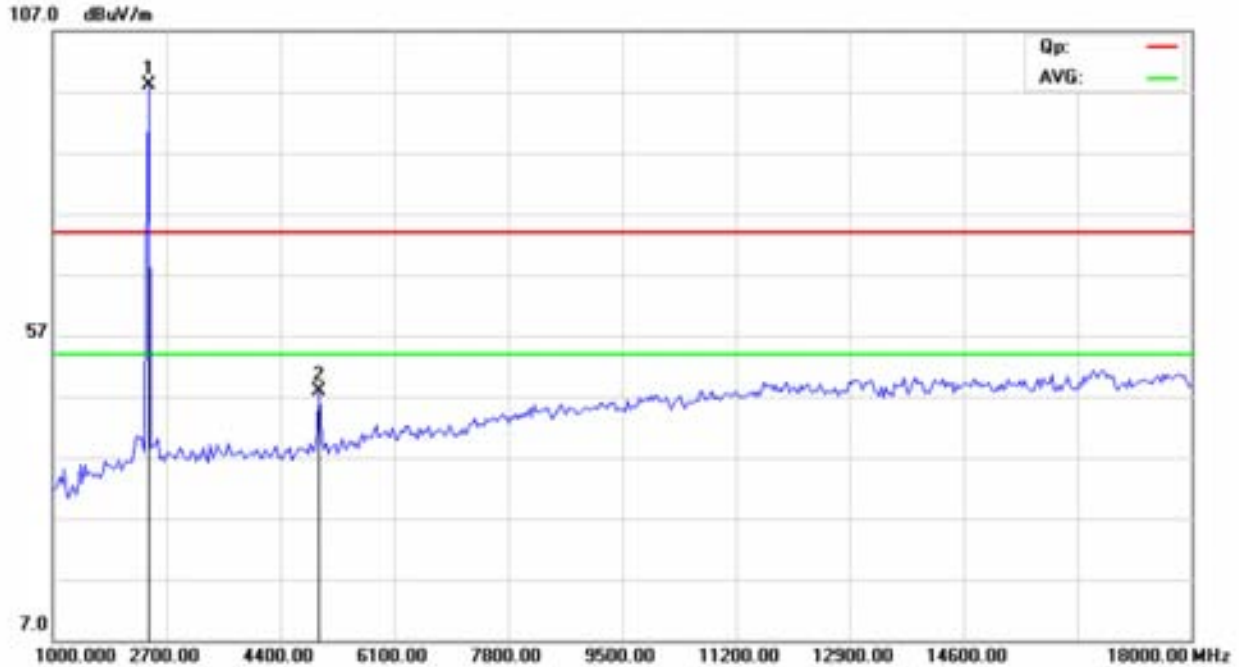
**CH01 at 11Mbps: Vertical**



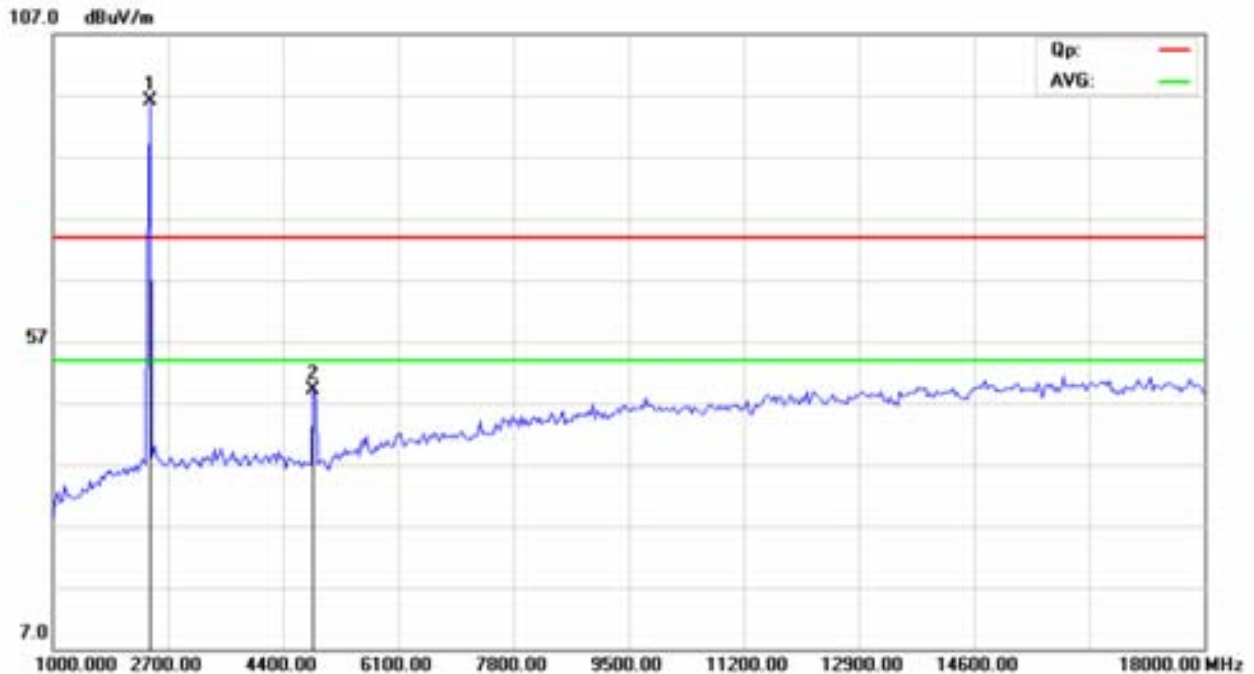
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**CH06 at 11Mbps: Vertical**



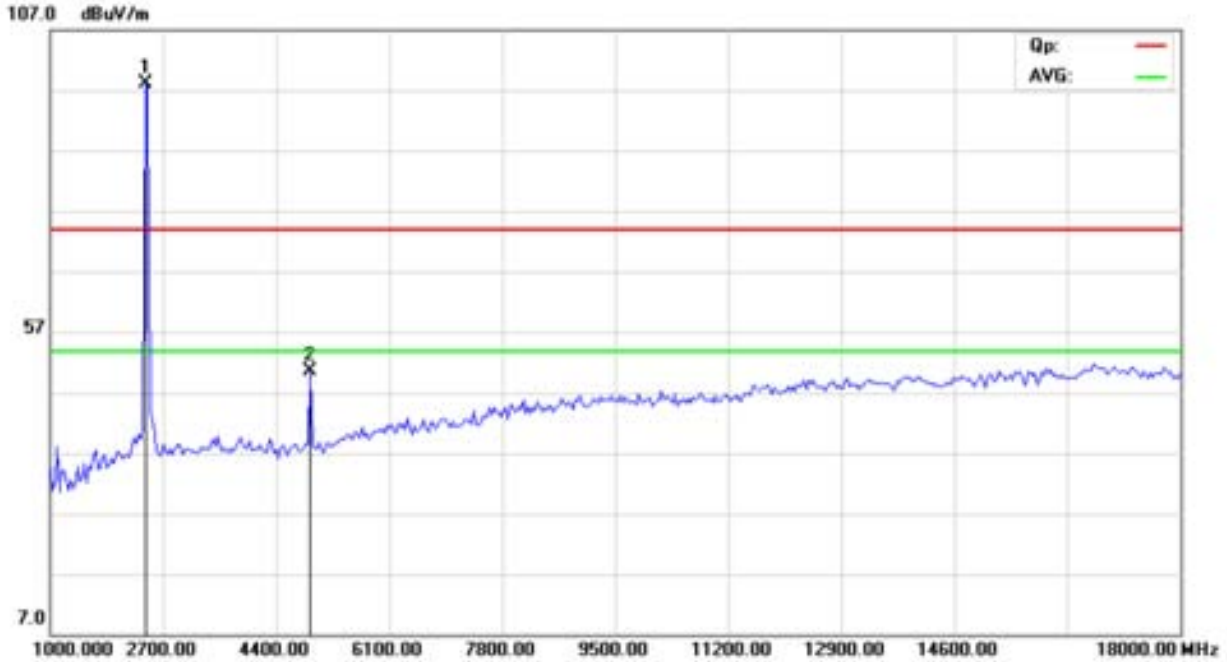
**CH06 at 11Mbps: Horizontal**



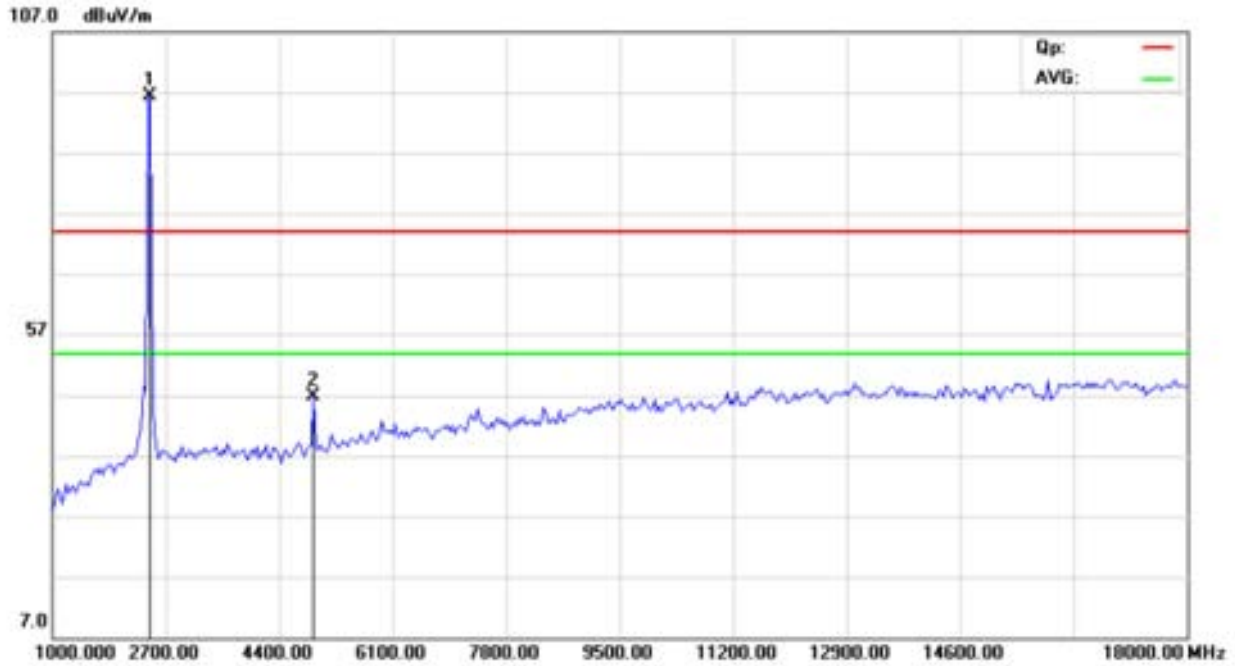
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**CH11 at 11Mbps: Vertical**



**CH11at 11Mbps: Horizontal**



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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**Operation Mode: Transmitting & Receiving under CH01 for 11g at 54 Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	96.39(PK)	H	Fundamental Frequency
2412.00	97.69(PK)	V	
4824.00	49.78(PK)	H	--
4824.00	48.82(PK)	V	
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11g mode 54Mbps

**Operation Mode: Transmitting & Receiving under CH06 for 11g at 54 Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	95.47 (PK)	H	Fundamental Frequency
2437.00	97.44(PK)	V	
4874.00	46.47(PK)	H	--
4874.00	50.20(PK)	V	
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11g mode 54Mbps

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**Operation Mode: Transmitting & Receiving under CH11 for 11g at 54 Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	95.43(PK)	H	Fundamental Frequency
2462.00	97.36(PK)	V	
4924	49.58(PK)	H	--
4924	49.64(PK)	V	
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “--” means that the emissions level is too low to be measured  
 3. For 802.11g mode 54Mbps

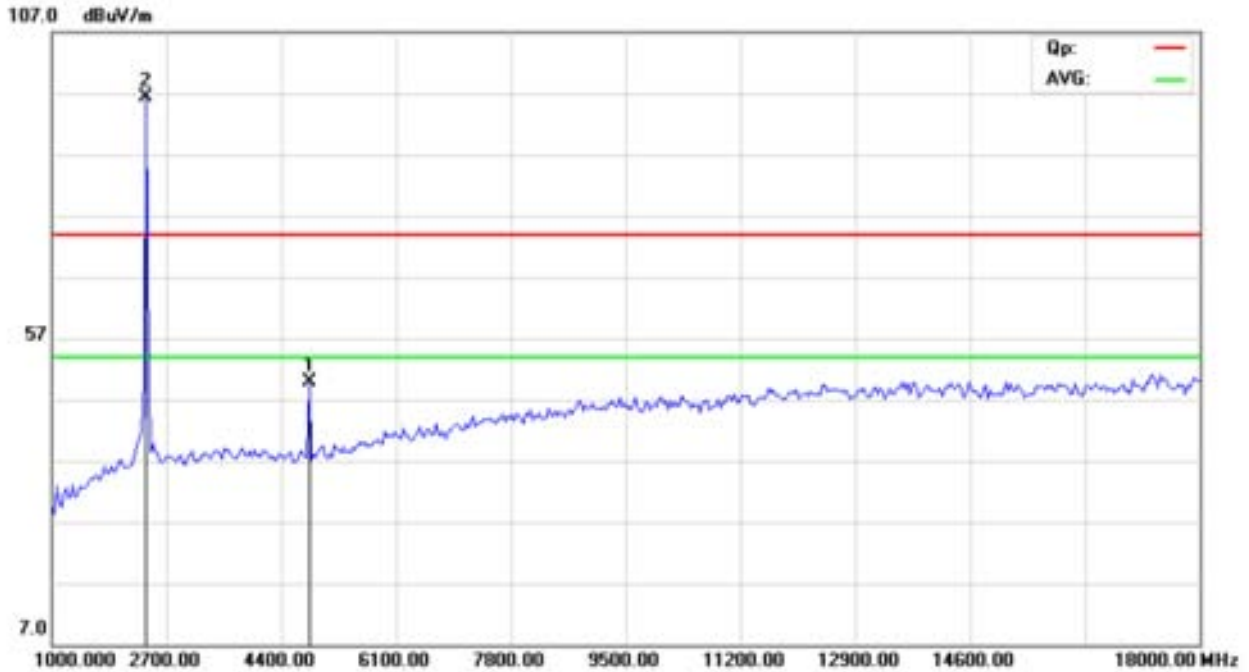
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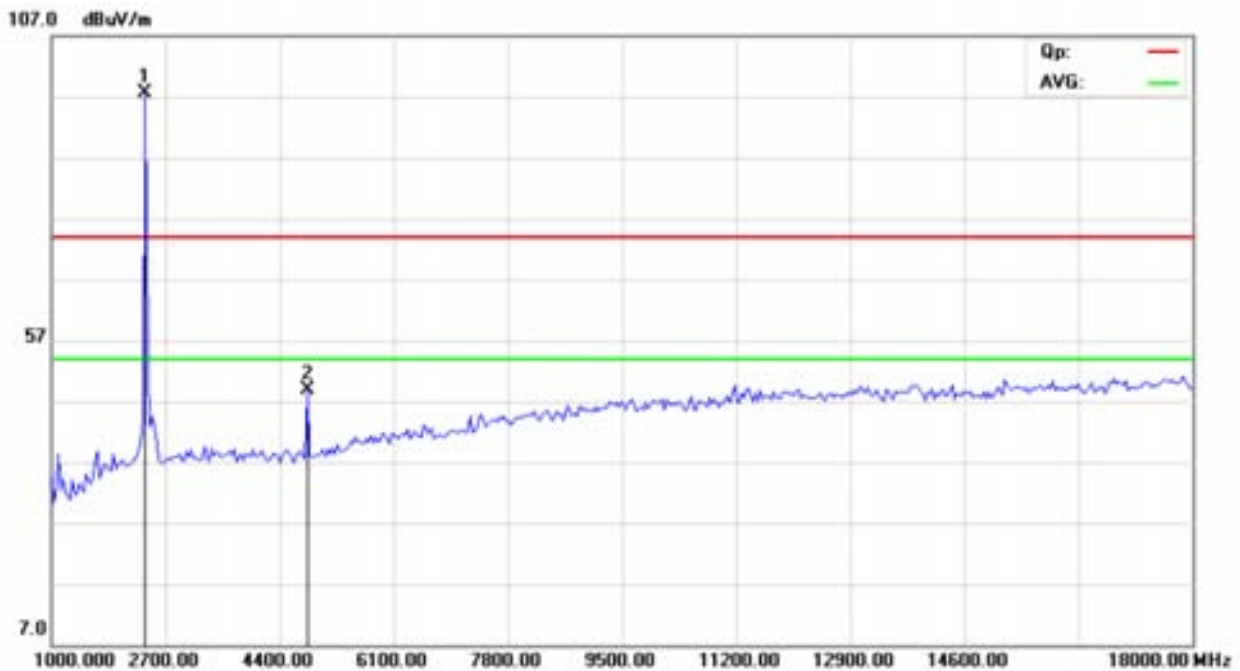


Please refer to the following test plots for details:

**CH01 at 54Mbps: Horizontal**



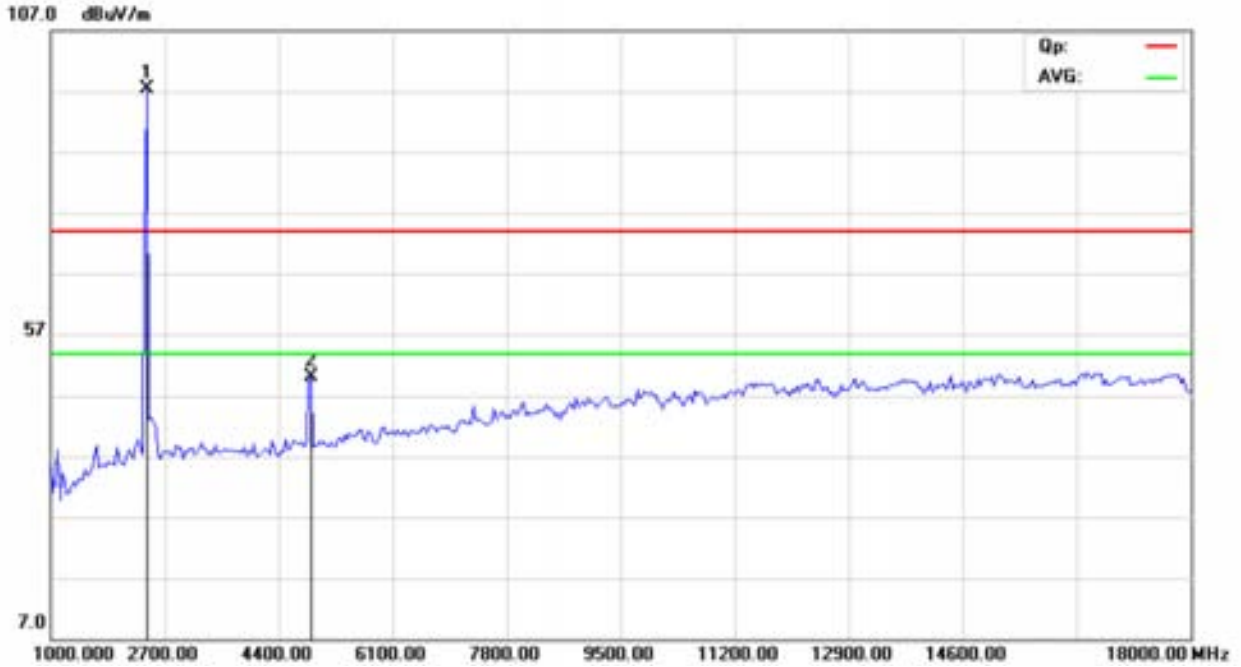
**CH01 at 54Mbps: Vertical**



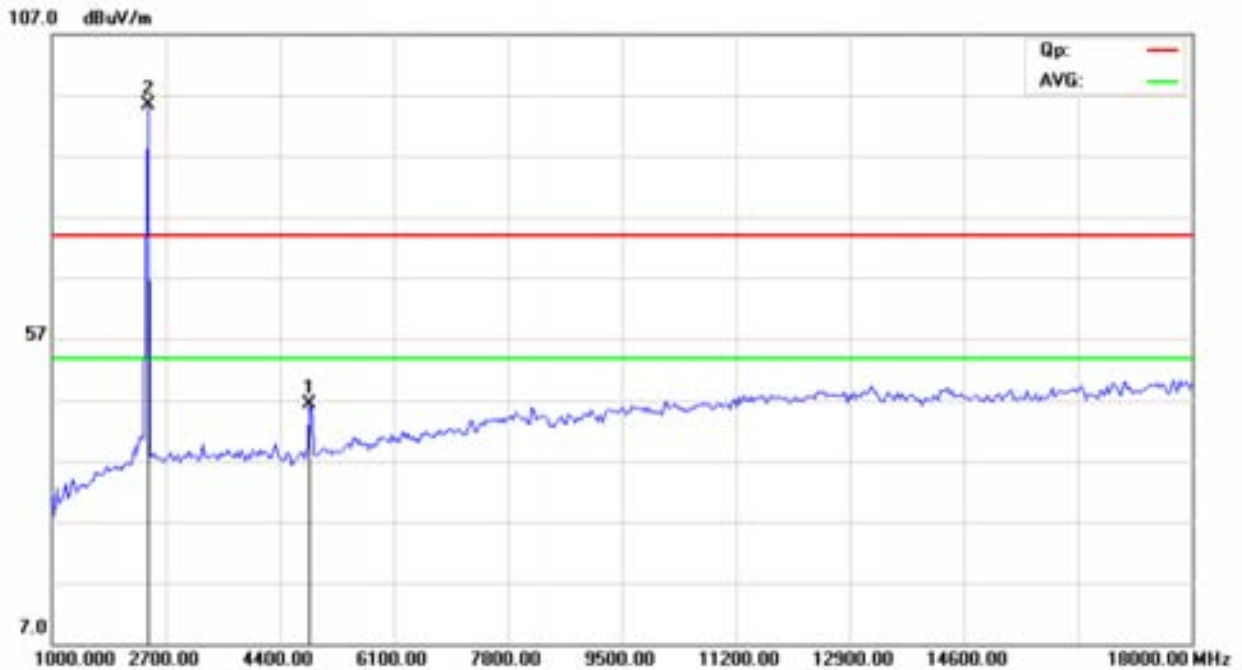
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**CH06 at 54Mbps: Vertical**



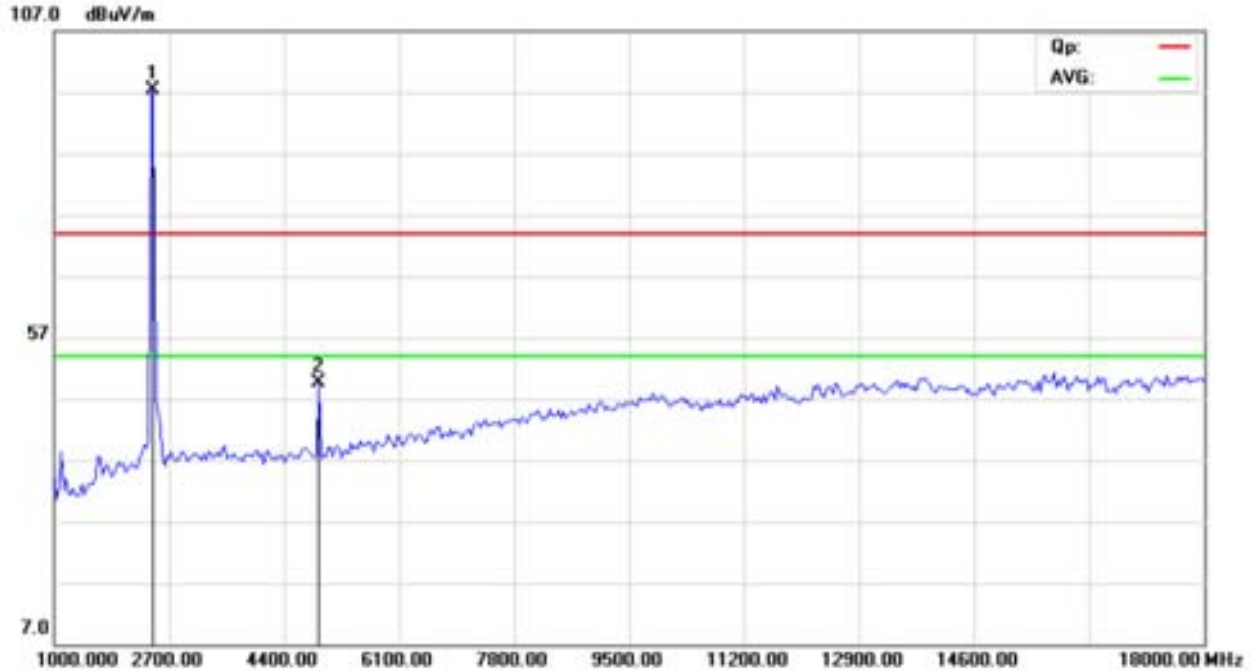
**CH06 at 54Mbps: Horizontal**



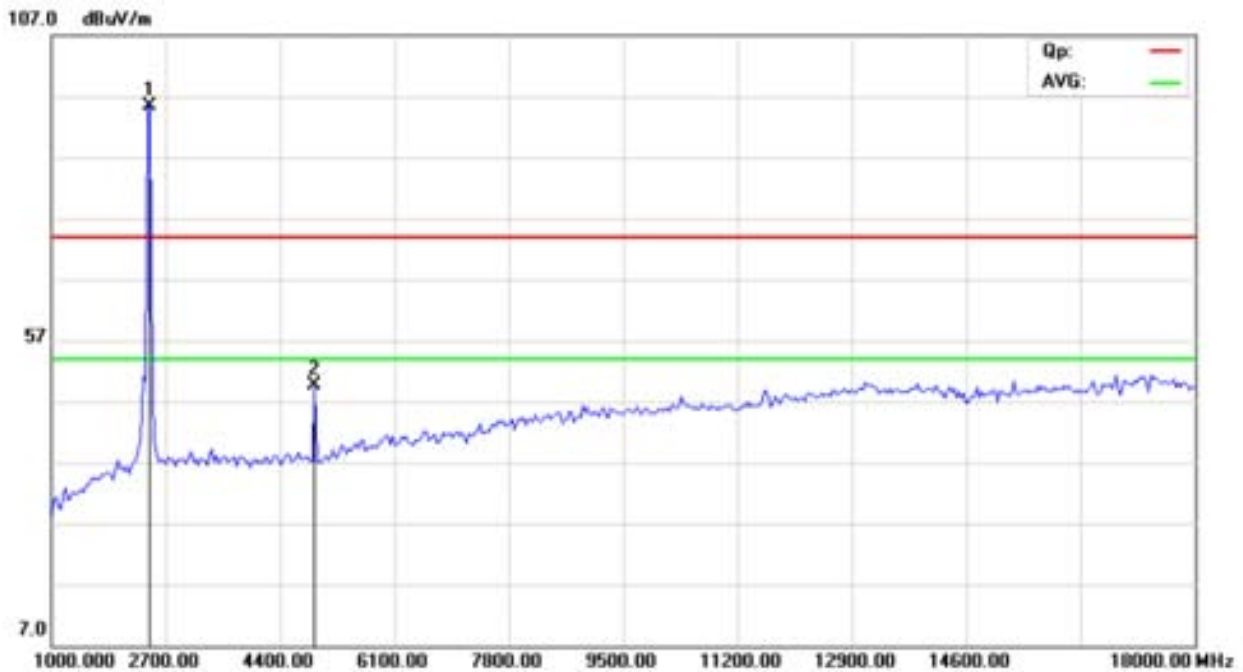
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**CH11 at 54Mbps: Vertical**



**CH11 at 54 Mbps: Horizontal**



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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**Operation Mode: Transmitting & Receiving under CH01 for 11n HT20 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2412.00	97.36(PK)	H	Fundamental Frequency
2412.00	98.42(PK)	V	
4824.00	49.35(PK)	H	74(Peak)/ 54(AV)
4824.00	50.59(PK)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74(Peak)/ 54(AV)
16684	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11n HT20 at 65Mbps

**Operation Mode: Transmitting & Receiving under CH06 for 11n HT20 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	97.05(PK)	H	Fundamental Frequency
2437.00	98.01 (PK)	V	
4874.00	48.04(PK)	H	74(Peak)/ 54(AV)
4874.00	50.38(PK)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802. 11n HT20 at 65bps

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**Operation Mode: Transmitting & Receiving under CH11 for 11n HT20 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2462.00	96.12(PK)	H	Fundamental Frequency
2462.00	97.31(PK)	V	
4924	48.69(PK)	H	74(Peak)/ 54(AV)
4924	49.64(PK)	V	74(Peak)/ 54(AV)
7386	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
19696	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24650	--	H/V	74(Peak)/ 54(AV)

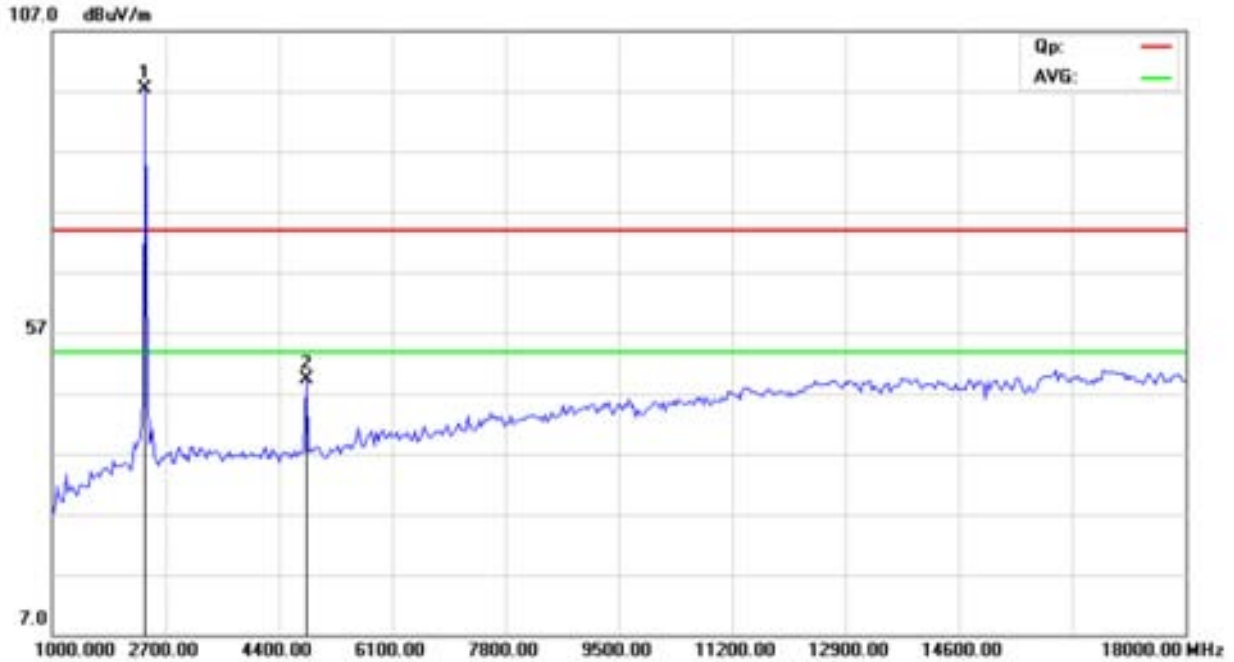
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “--” means that the emissions level is too low to be measured  
 3. For 802. 11n HT20 at 65bps

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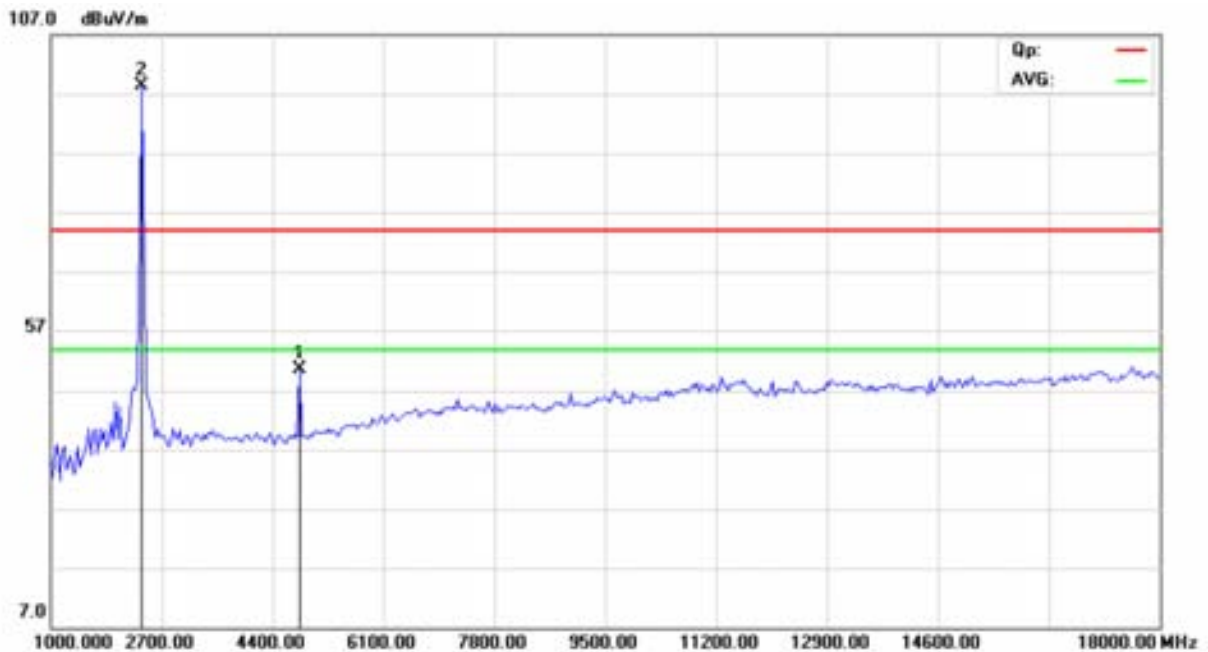


Please refer to the following test plots for details:

**CH01 at 11n HT20: Horizontal**



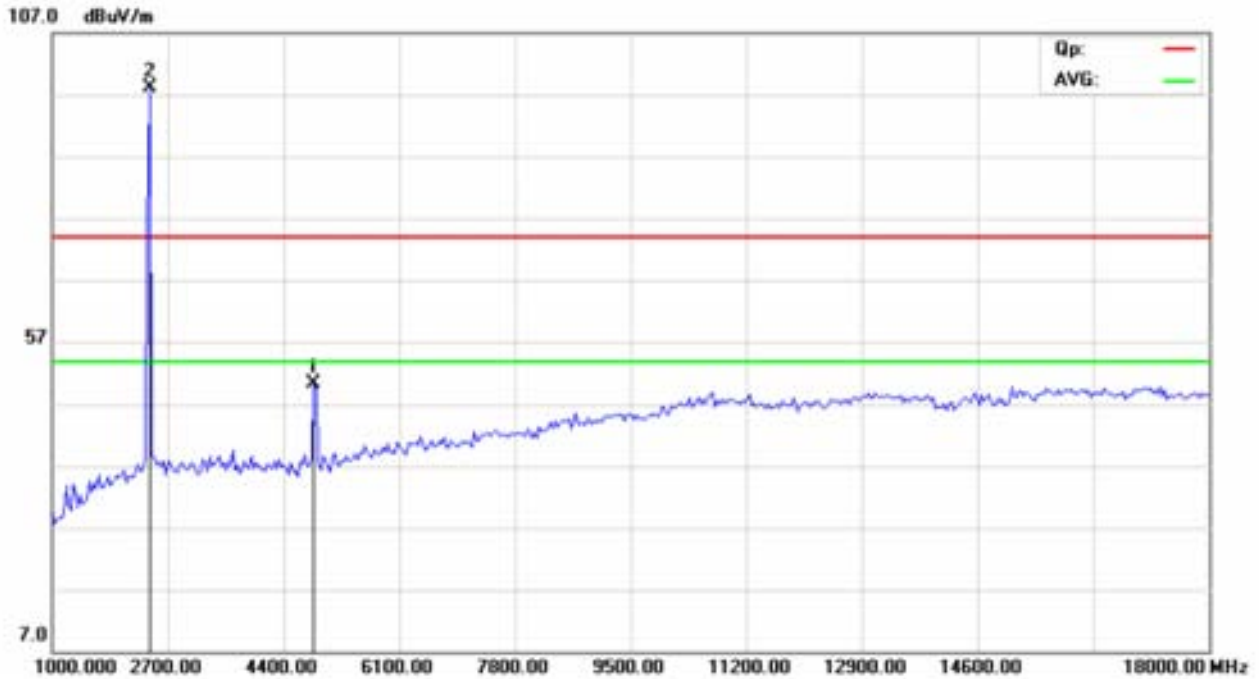
**CH01 at 11n HT20: Vertical**



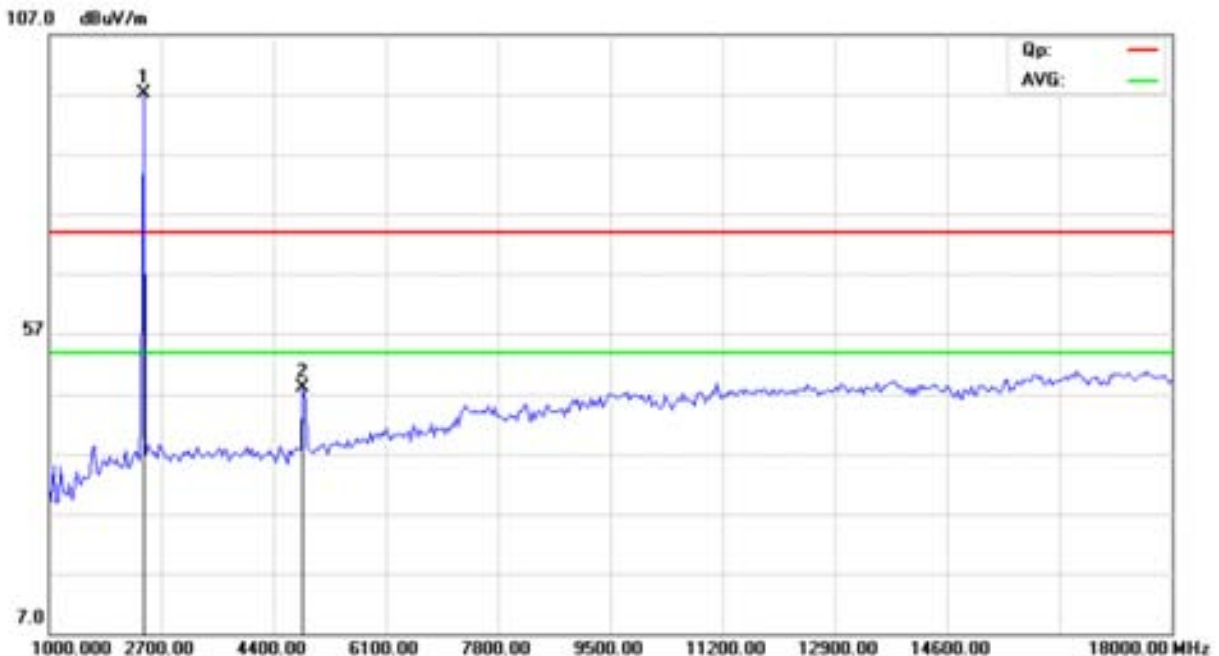
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**CH06 at 11n HT20: Vertical**



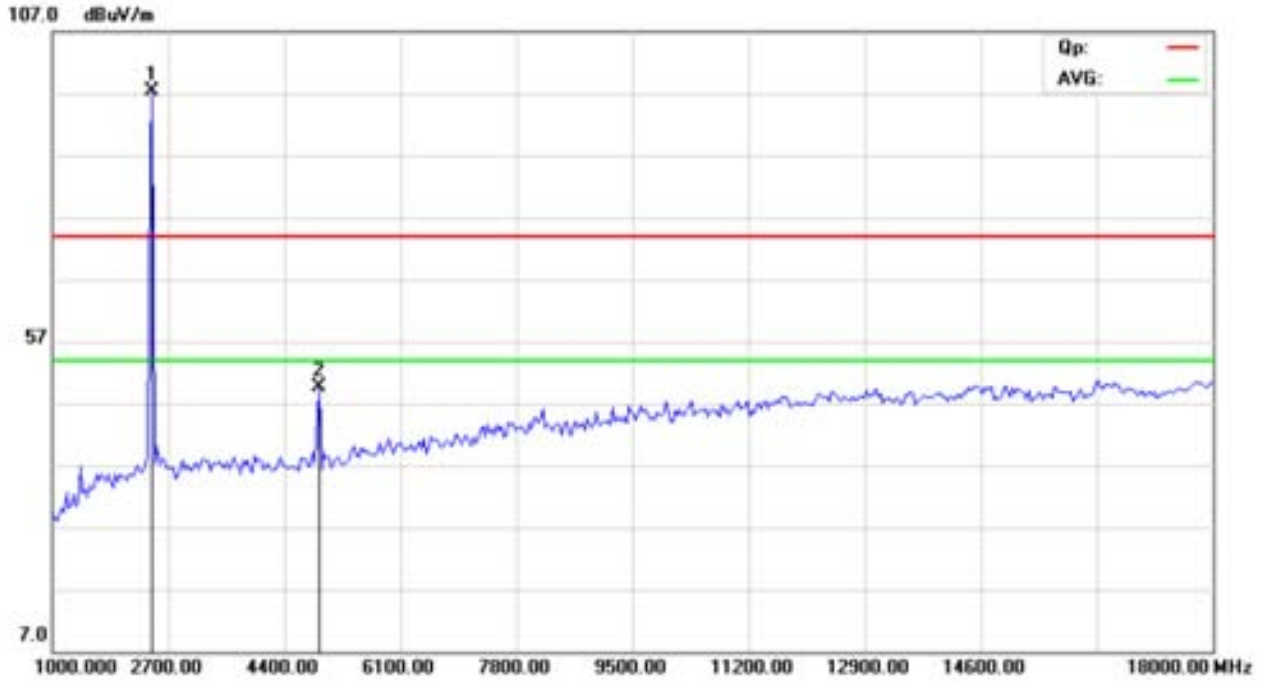
**CH06 at 11n HT20: Horizontal**



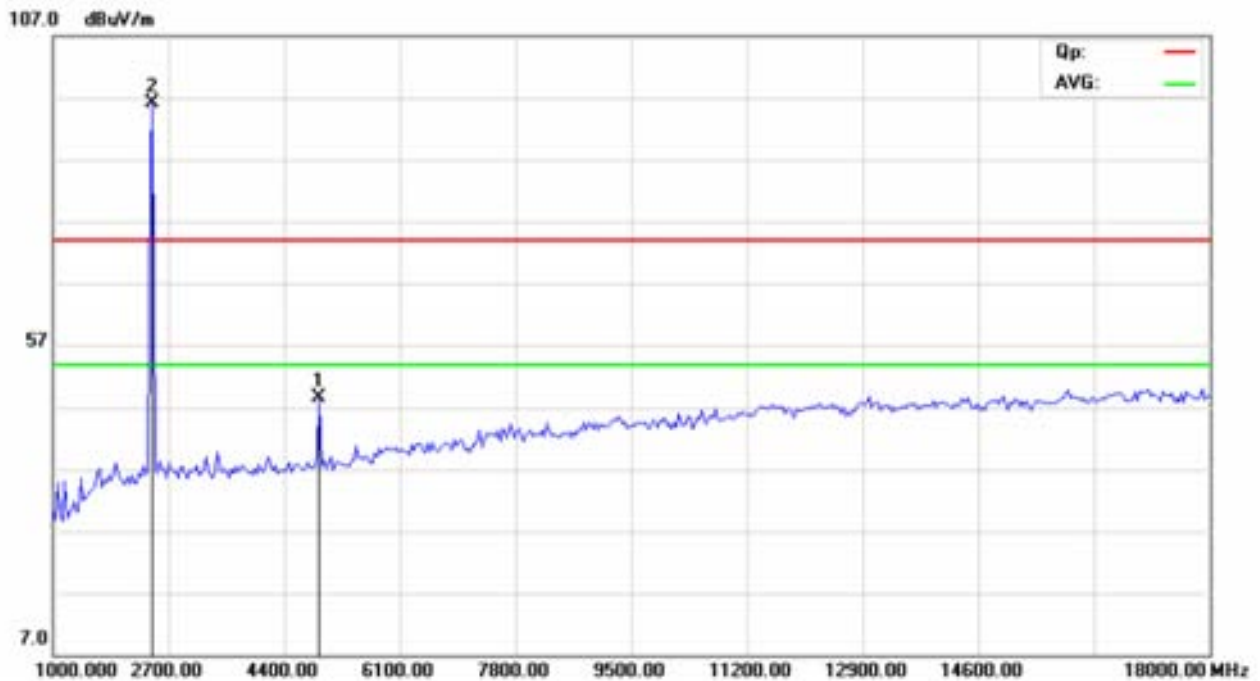
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**CH11 at 11n HT20: Vertical**



**CH11 at 11n HT20: Horizontal**



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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**Operation Mode: Transmitting & Receiving under CH01 for 11n HT40 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2422.00	97.01(PK)	H	Fundamental Frequency
2422.00	97.96(PK)	V	
4844.00	48.01(PK)	H	--
4844.00	49.27(PK)	V	
7266.00	--	H/V	74(Peak)/ 54(AV)
9688.00	--	H/V	74(Peak)/ 54(AV)
12110	--	H/V	74(Peak)/ 54(AV)
14532	--	H/V	74(Peak)/ 54(AV)
16954	--	H/V	74(Peak)/ 54(AV)
19376	--	H/V	74(Peak)/ 54(AV)
21798	--	H/V	74(Peak)/ 54(AV)
24220	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11n HT40 at 65bps

**Operation Mode: Transmitting & Receiving under CH06 for 11n HT40 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	96.72(PK)	H	Fundamental Frequency
2437.00	98.65 (PK)	V	
4874.00	50.18(PK)	H	--
4874.00	50.03(PK)	V	
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark "---" means that the emissions level is too low to be measured  
 3. For 802.11n HT40 at 65bps

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**Operation Mode: Transmitting & Receiving under CH11 for 11n HT40 at 65Mbps**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2452.00	97.10(PK)	H	Fundamental Frequency
2452.00	98.19(PK)	V	
4904	50.23(PK)	H	--
4904	--	V	--
7356	--	H/V	74(Peak)/ 54(AV)
9808	--	H/V	74(Peak)/ 54(AV)
12260	--	H/V	74(Peak)/ 54(AV)
14712	--	H/V	74(Peak)/ 54(AV)
17164	--	H/V	74(Peak)/ 54(AV)
19616	--	H/V	74(Peak)/ 54(AV)
22068	--	H/V	74(Peak)/ 54(AV)
24520	--	H/V	74(Peak)/ 54(AV)

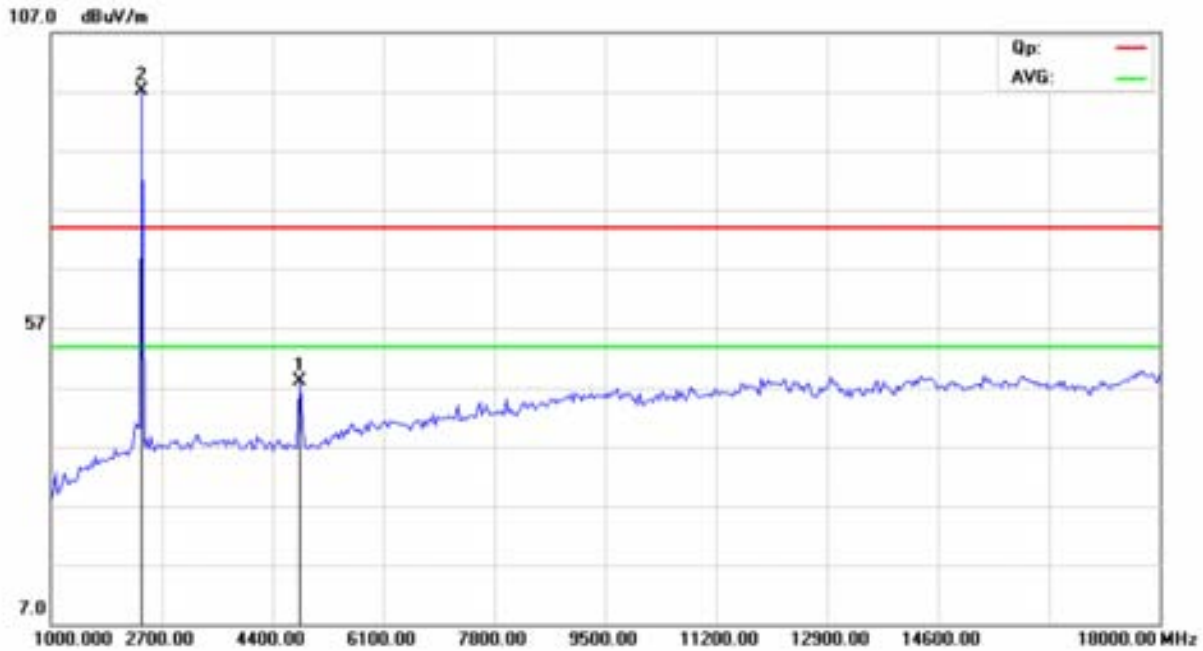
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “---” means that the emissions level is too low to be measured  
 3. For 802. 11n HT40 at 65bps

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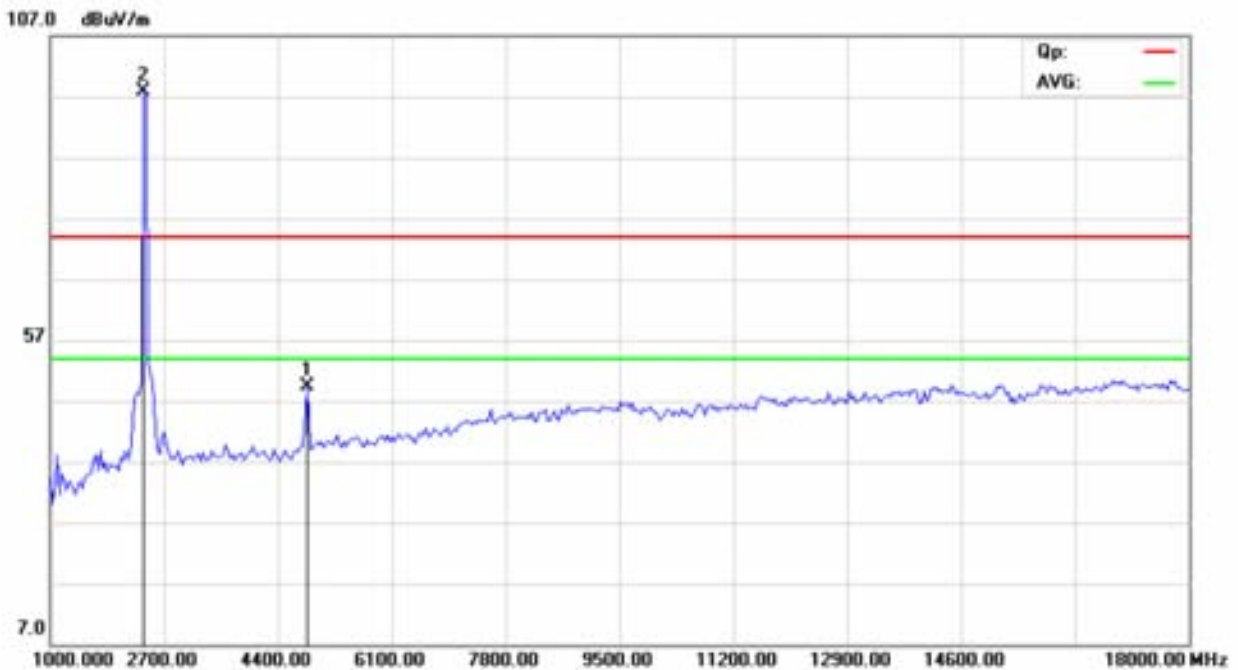


Please refer to the following test plots for details:

**CH01 at 11n HT40: Horizontal**



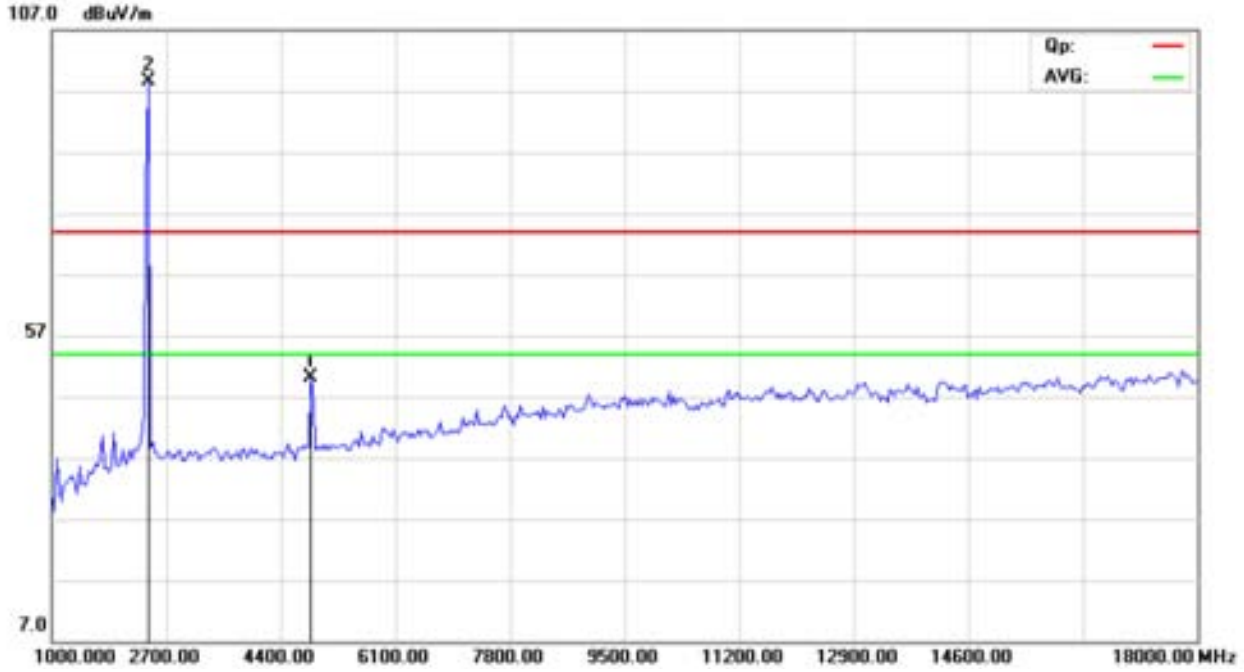
**CH01 at 11n HT40: Vertical**



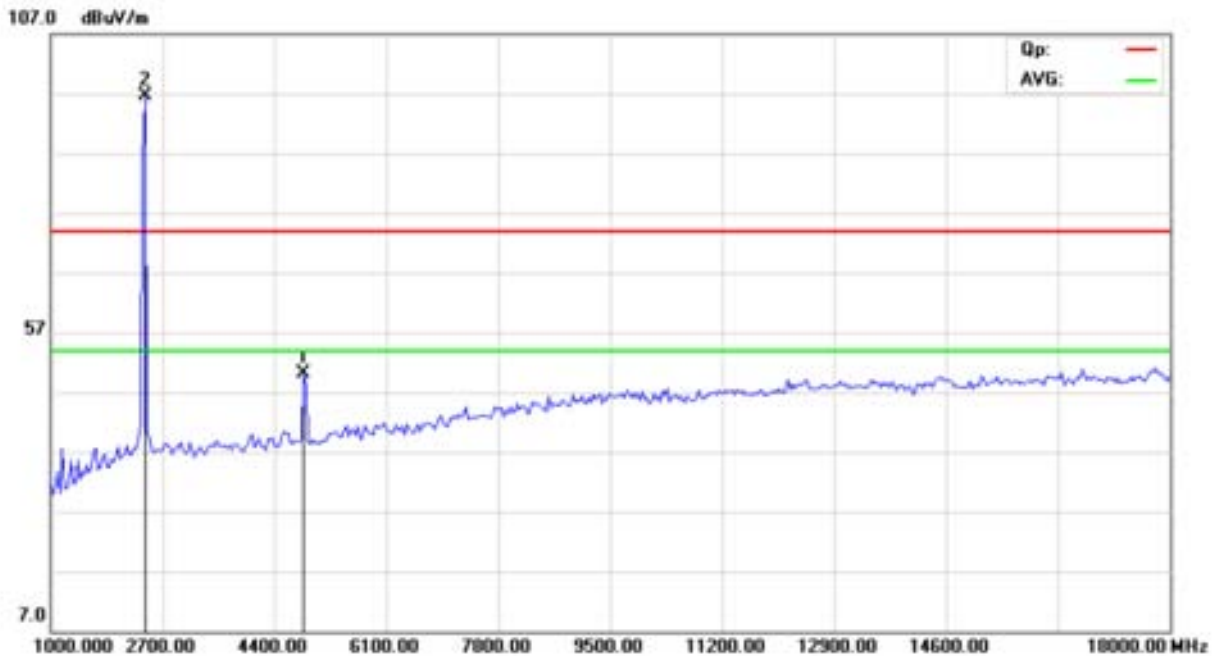
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**CH04 at 11n HT40: Vertical**



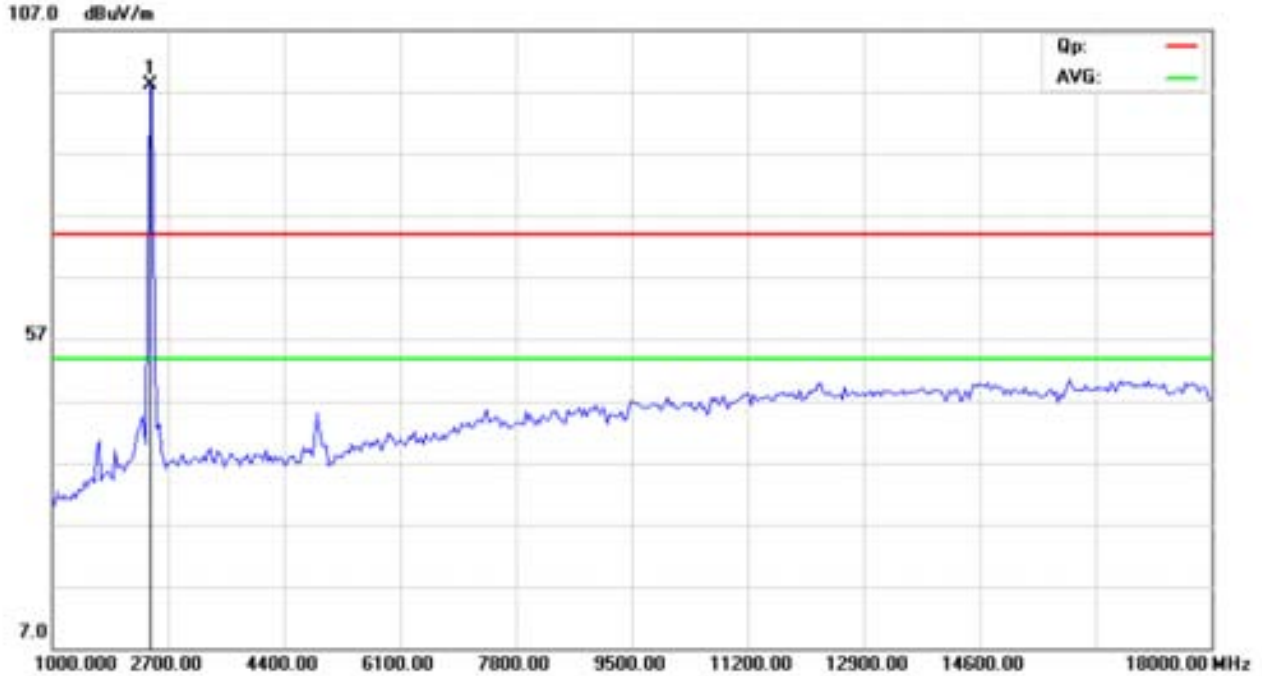
**CH06 at 11n HT40: Horizontal**



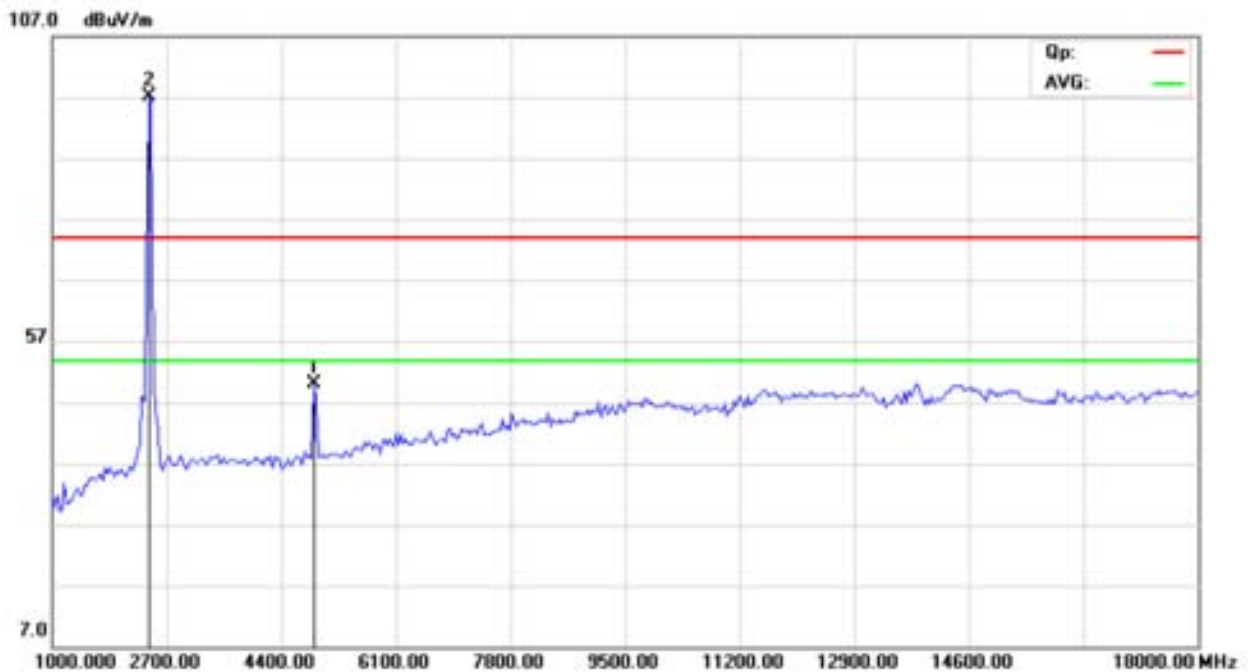
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**CH7 at 11n HT40: Vertical**



**CH11 at 11n HT40: Horizontal**

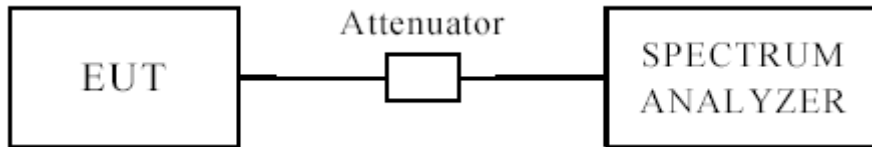


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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500kHz

### 7.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW for 802.11b/g/n mode; The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 7.4 Test Result

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EUT		WIFI Router/AP		Model	BL-WA01
Mode		802.11b/g		Input Voltage	AC 120V
Temperature		24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	12.06	0.5	Pass
6	2437	1	12.00	0.5	Pass
11	2462	1	12.12	0.5	Pass
1	2412	11	10.08	0.5	Pass
6	2437	11	11.16	0.5	Pass
11	2462	11	11.52	0.5	Pass
1	2412	54	16.44	0.5	Pass
6	2437	54	16.44	0.5	Pass
11	2462	54	16.50	0.5	Pass

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EUT	WIFI Router/AP		Model	BL-WAxx	
Mode	802.11n		Input Voltage	AC 120V	
Temperature	24 deg. C,		Humid Pity	56% RH	
1	2412	HT20	17.10	0.5	Pass
6	2437	HT20	16.44	0.5	Pass
11	2462	HT20	16.86	0.5	Pass
1	2422	HT40	35.14	0.5	Pass
5	2437	HT40	35.14	0.5	Pass
7	2452	HT40	35.06	0.5	Pass

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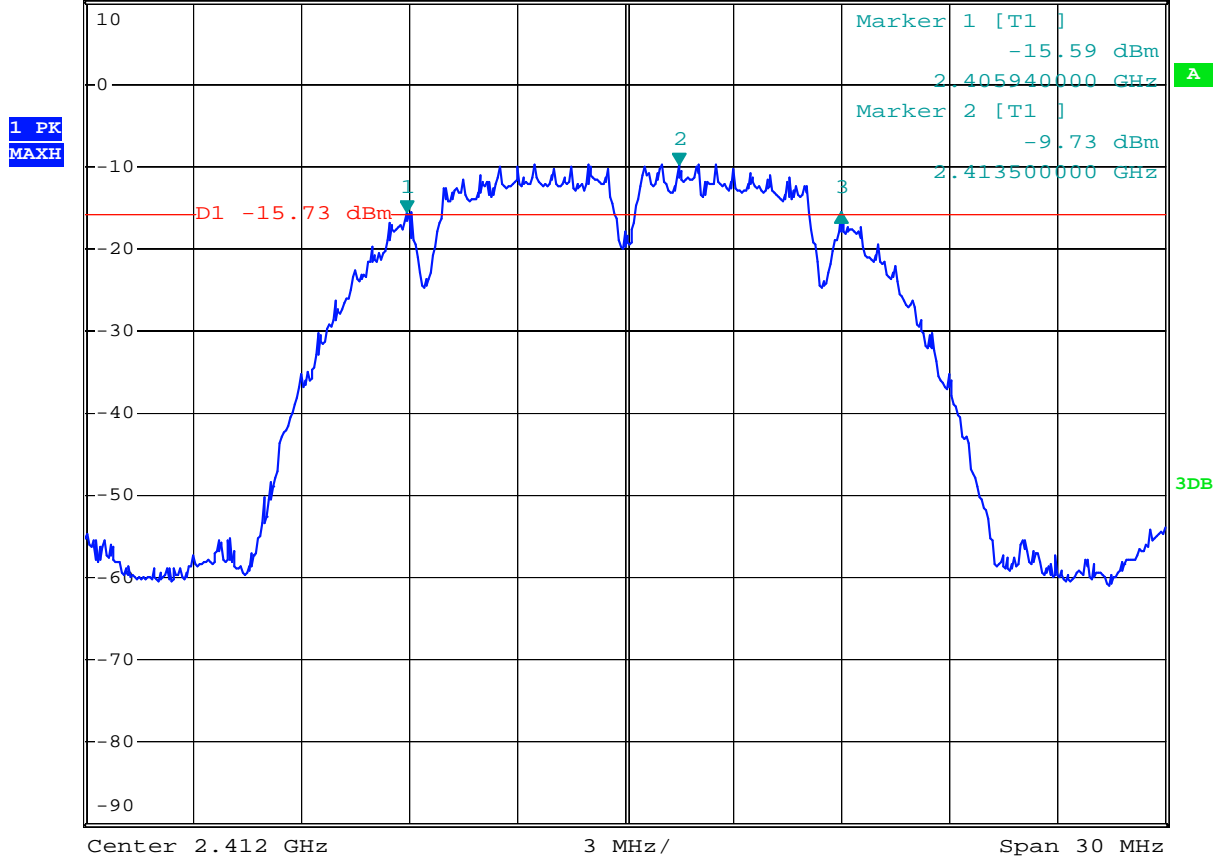


1. 802.11b at 1Mbps of CH01



**DELTA MARKER 3**  
 12.06 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz -0.00 dB  
 SWT 10 ms 12.060000000 MHz



Date: 8.FEB.2012 12:57:05

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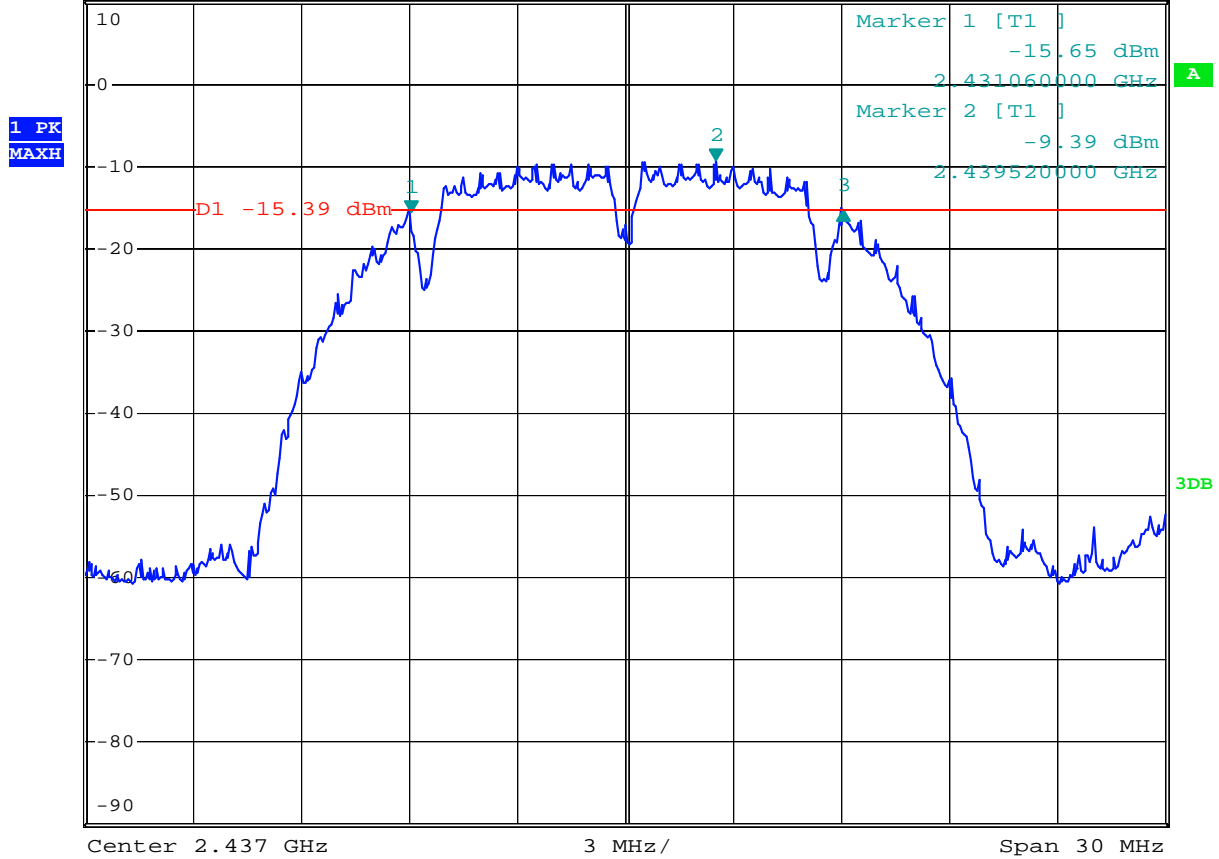


2. 802.11b at 1Mbps of CH06



**DELTA MARKER 3**  
 12 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.20 dB  
 SWT 10 ms 12.000000000 MHz



Date: 8.FEB.2012 13:08:46

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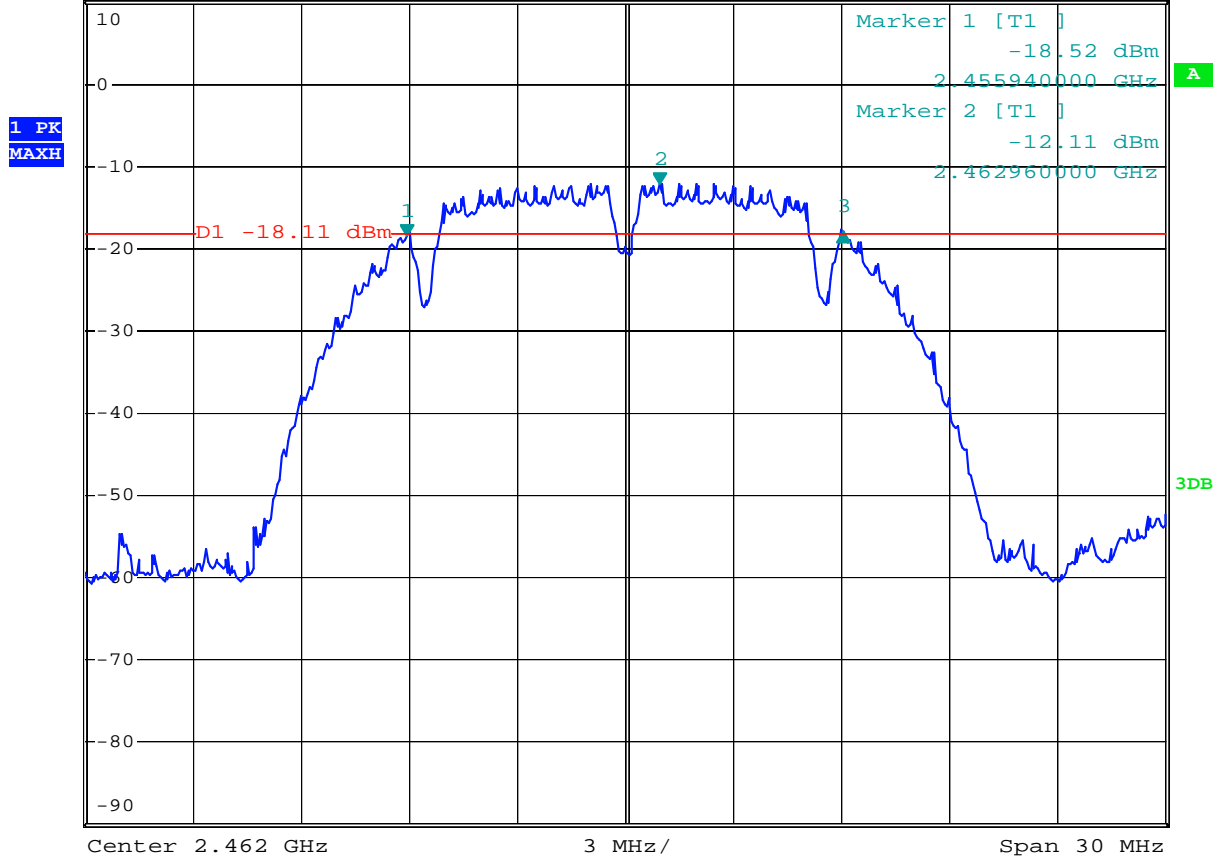


3. 802.11b at 1Mbps of CH11



**DELTA MARKER 3**  
 12.12 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.62 dB  
 SWT 10 ms 12.12000000 MHz



Date: 8.FEB.2012 13:09:52

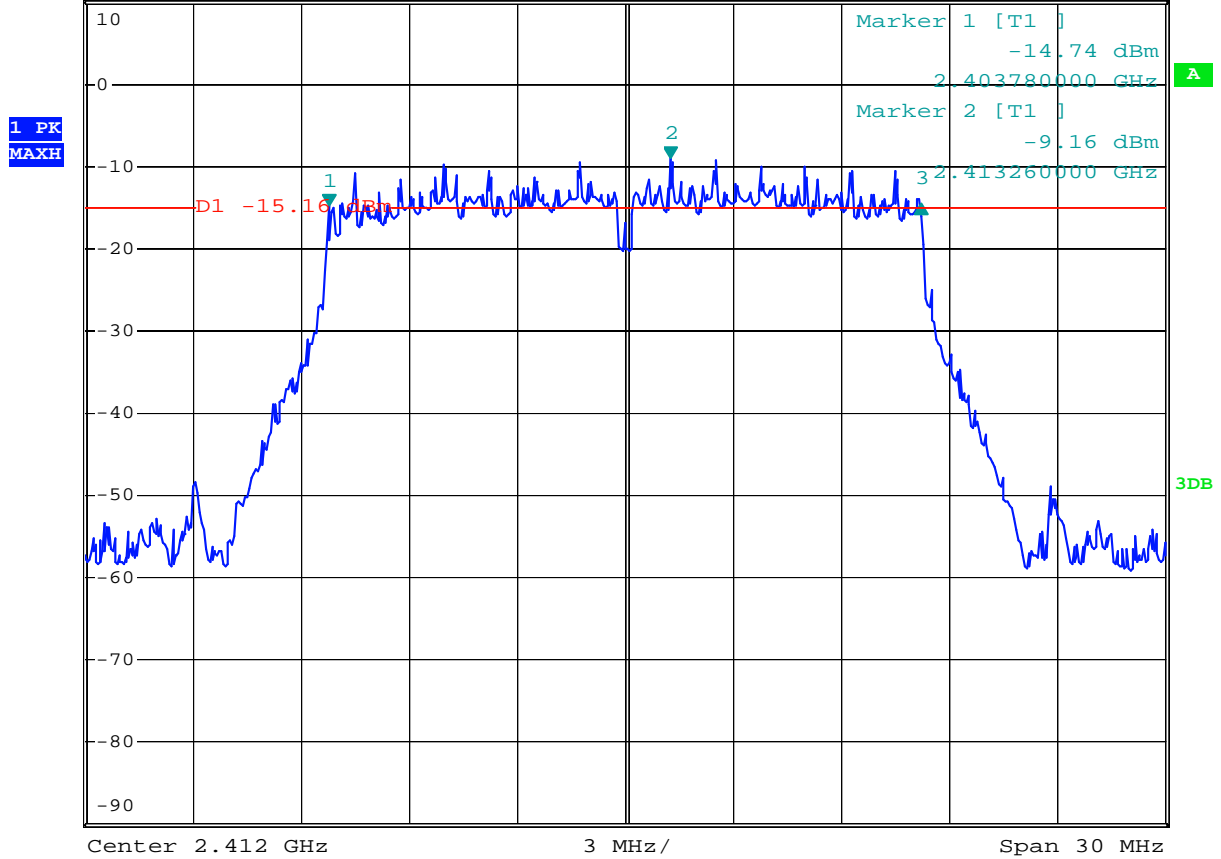
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4. 802.11b at 54 Mbps of CH01

**DELTA MARKER 3**  
 16.44 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.24 dB  
 SWT 10 ms 16.44000000 MHz

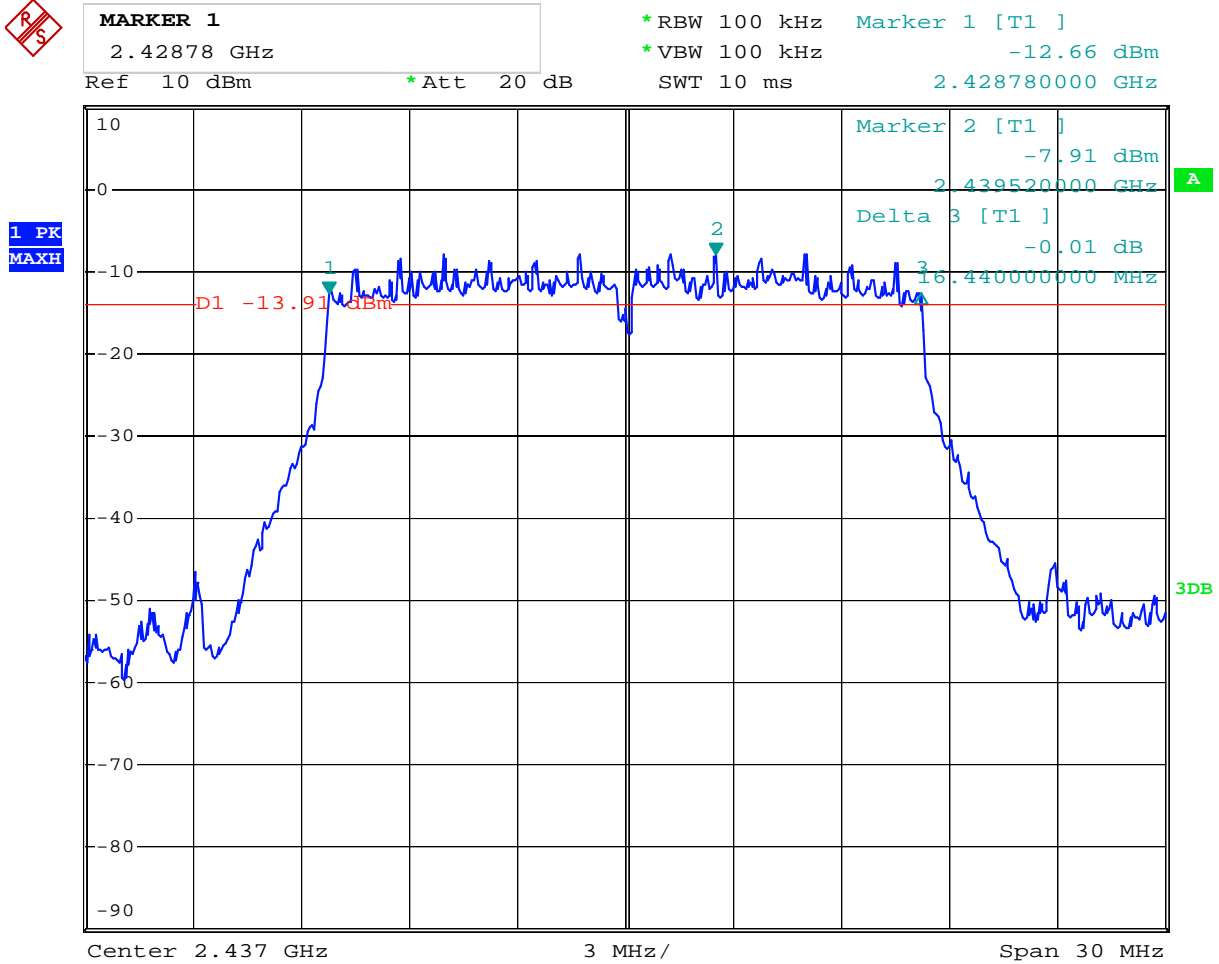


Date: 8.FEB.2012 12:58:08

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5. 802.11b at 54 Mbps of CH06



Date: 8.FEB.2012 13:16:56

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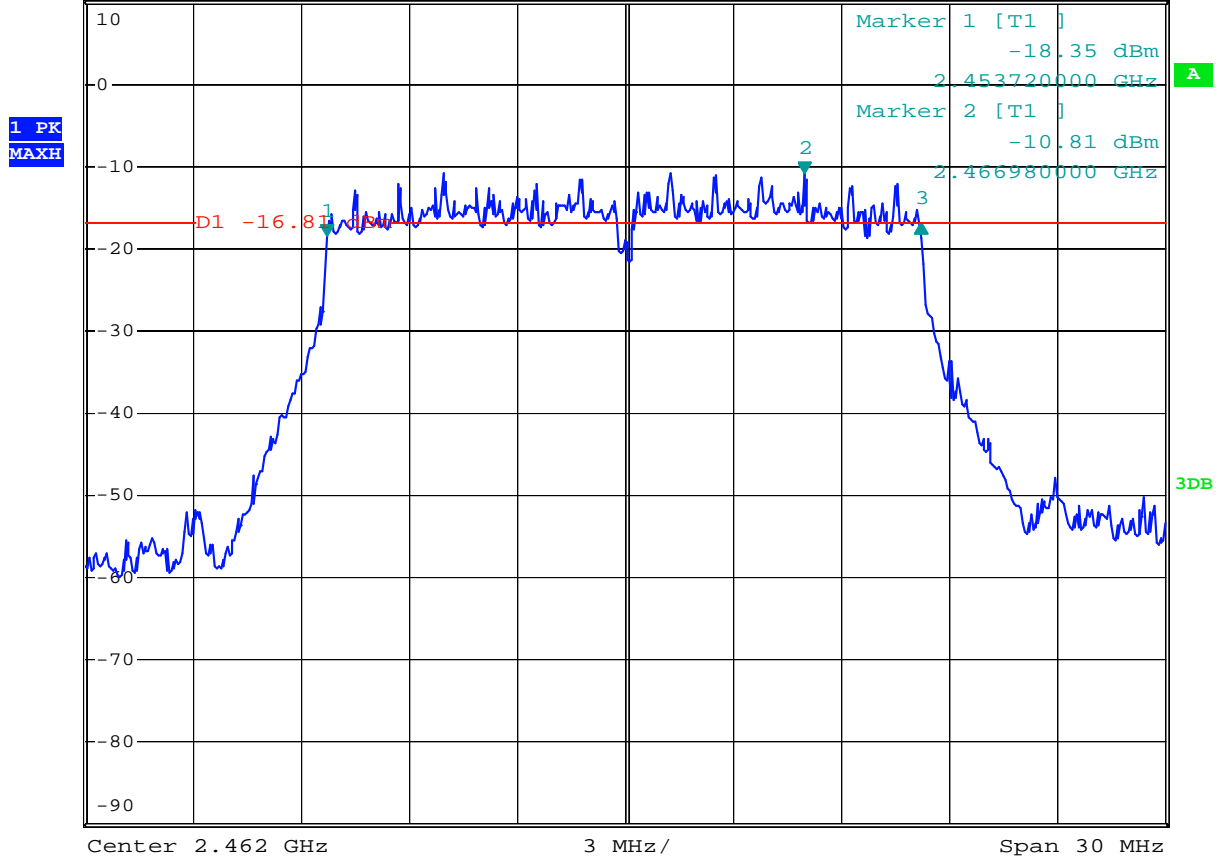


6. 802.11b at 54 Mbps of CH11



**DELTA MARKER 3**  
 16.5 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 1.37 dB  
 SWT 10 ms 16.50000000 MHz

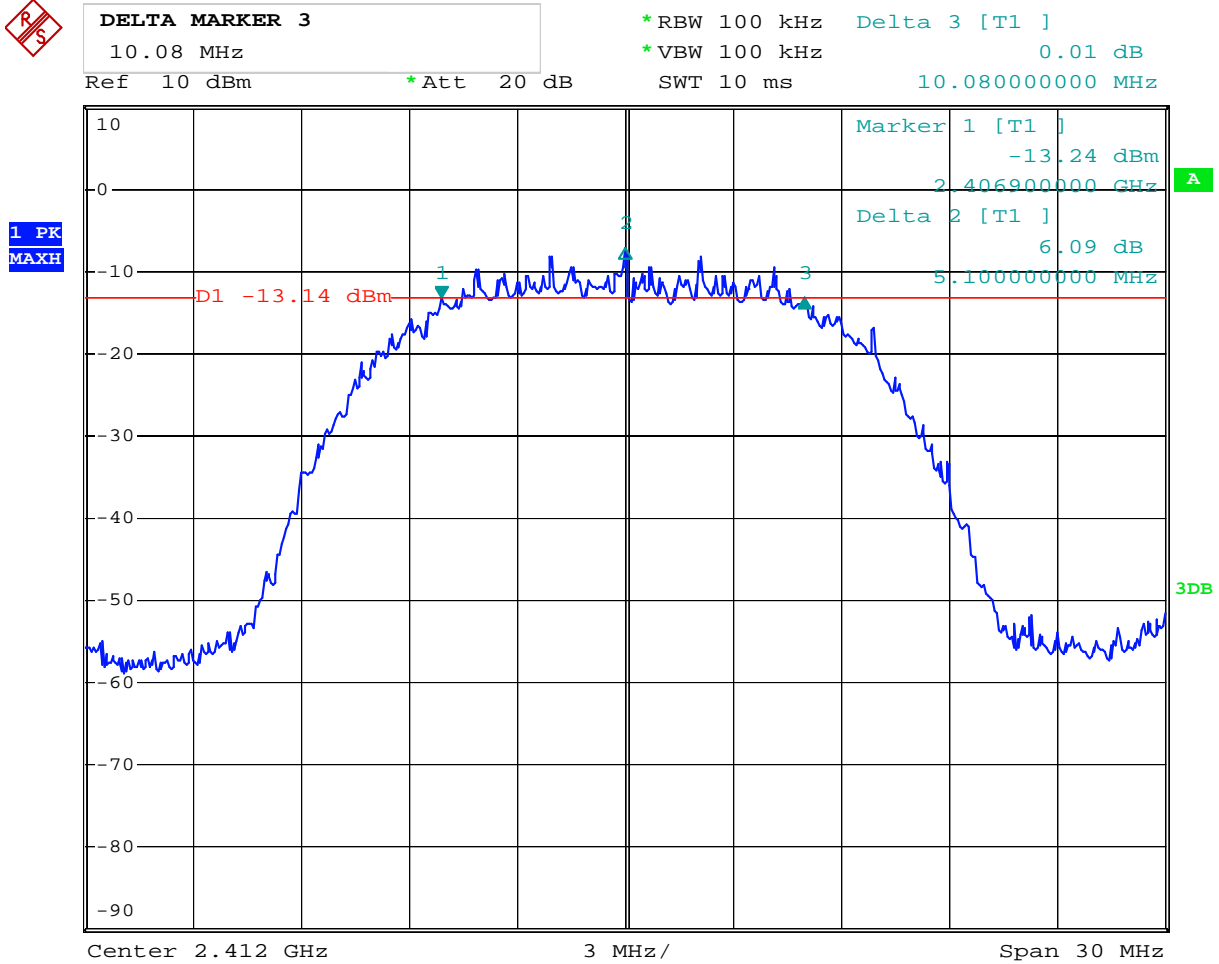


Date: 8.FEB.2012 13:11:35

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### 7. 802.11b at 11Mbps of CH01



Date: 8.FEB.2012 12:55:17

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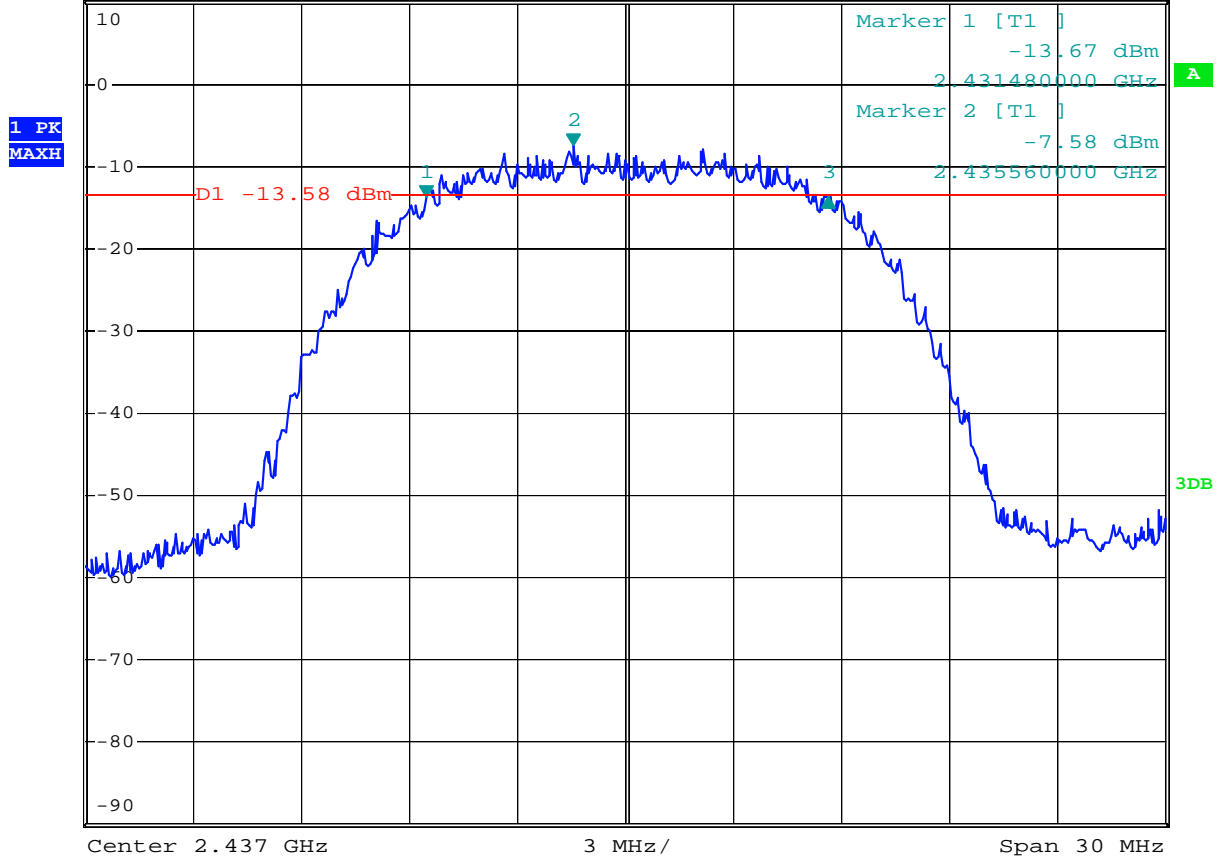


8. 802.11b at 11Mbps of CH06



**DELTA MARKER 3**  
 11.16 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.00 dB  
 SWT 10 ms 11.160000000 MHz



Date: 8.FEB.2012 13:07:53

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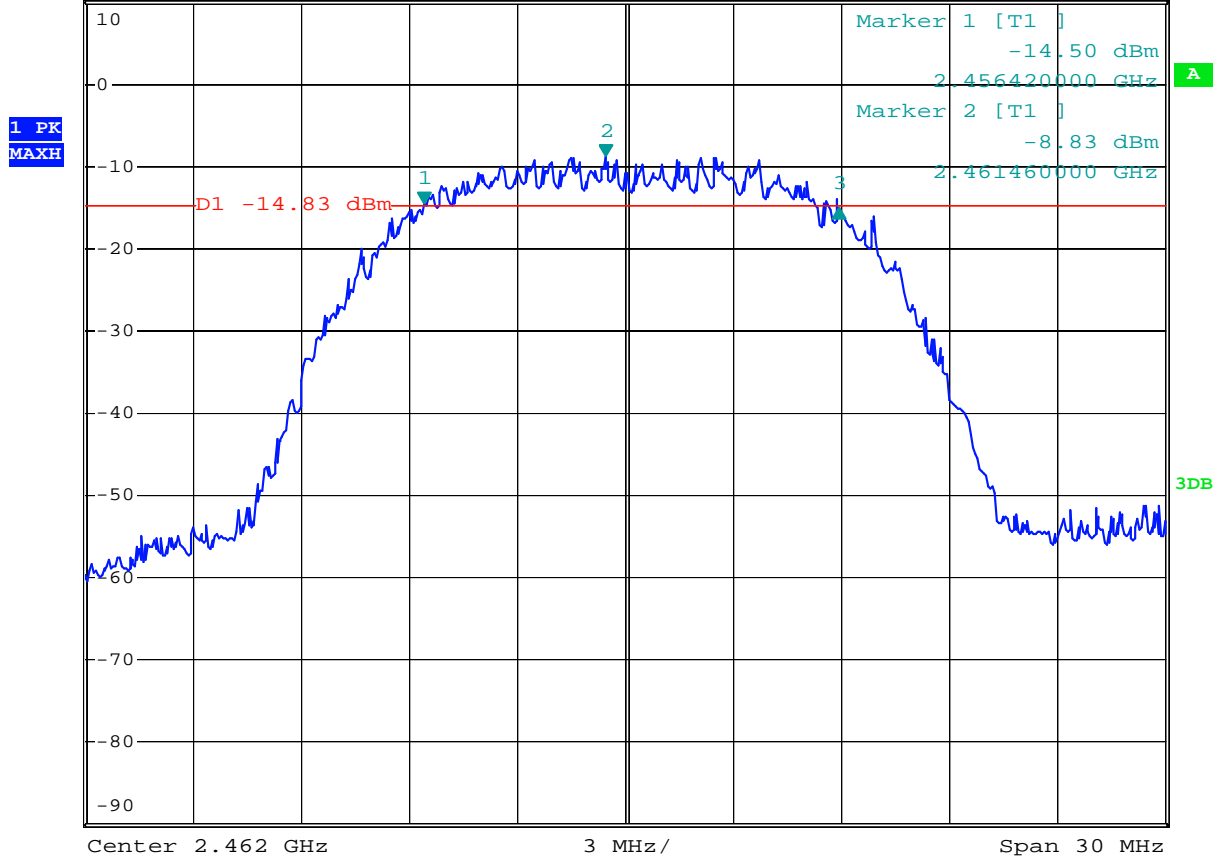


9. 802.11b at 11Mbps of CH11



**DELTA MARKER 3**  
 11.52 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz -0.53 dB  
 SWT 10 ms 11.52000000 MHz



Date: 8.FEB.2012 13:10:39

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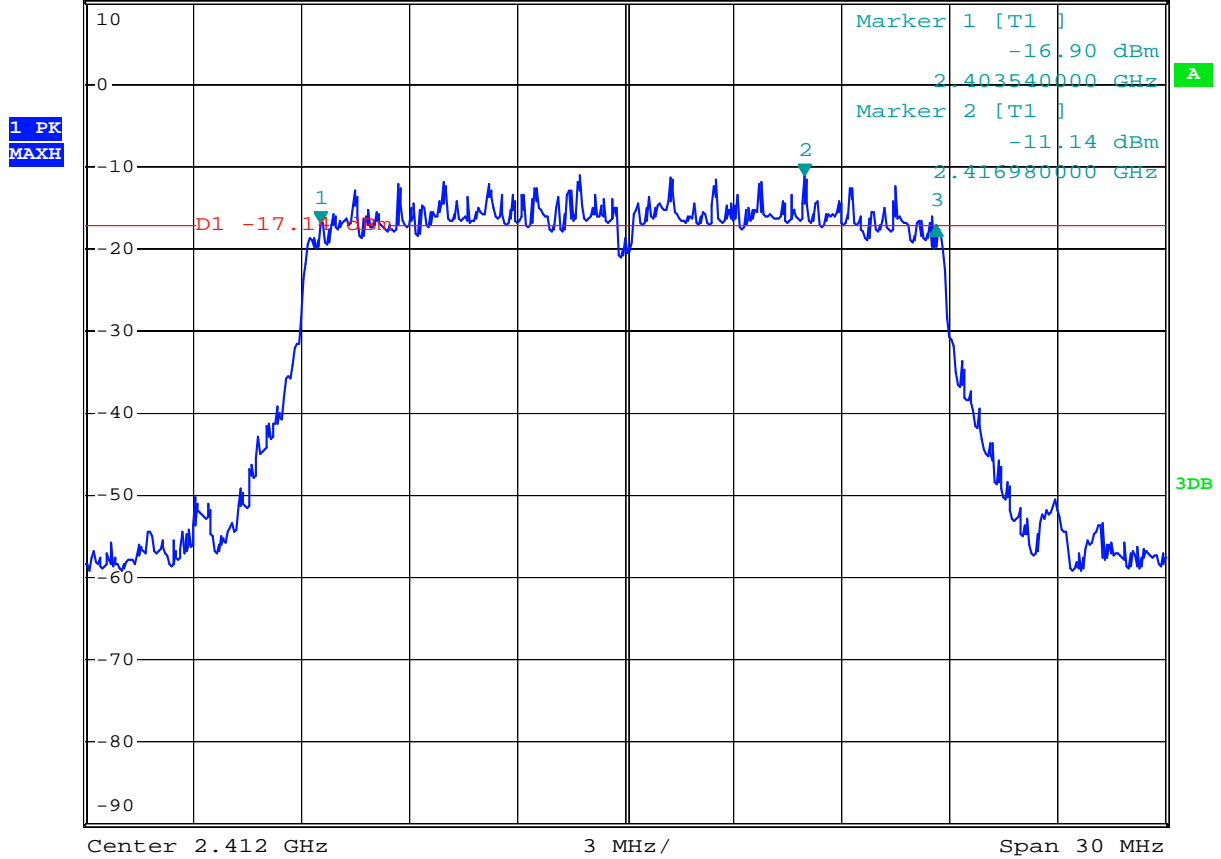


10. 802.11n at HT20 of CH01



**DELTA MARKER 3**  
 17.1 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz -0.18 dB  
 SWT 10 ms 17.100000000 MHz



Date: 8.FEB.2012 12:59:50

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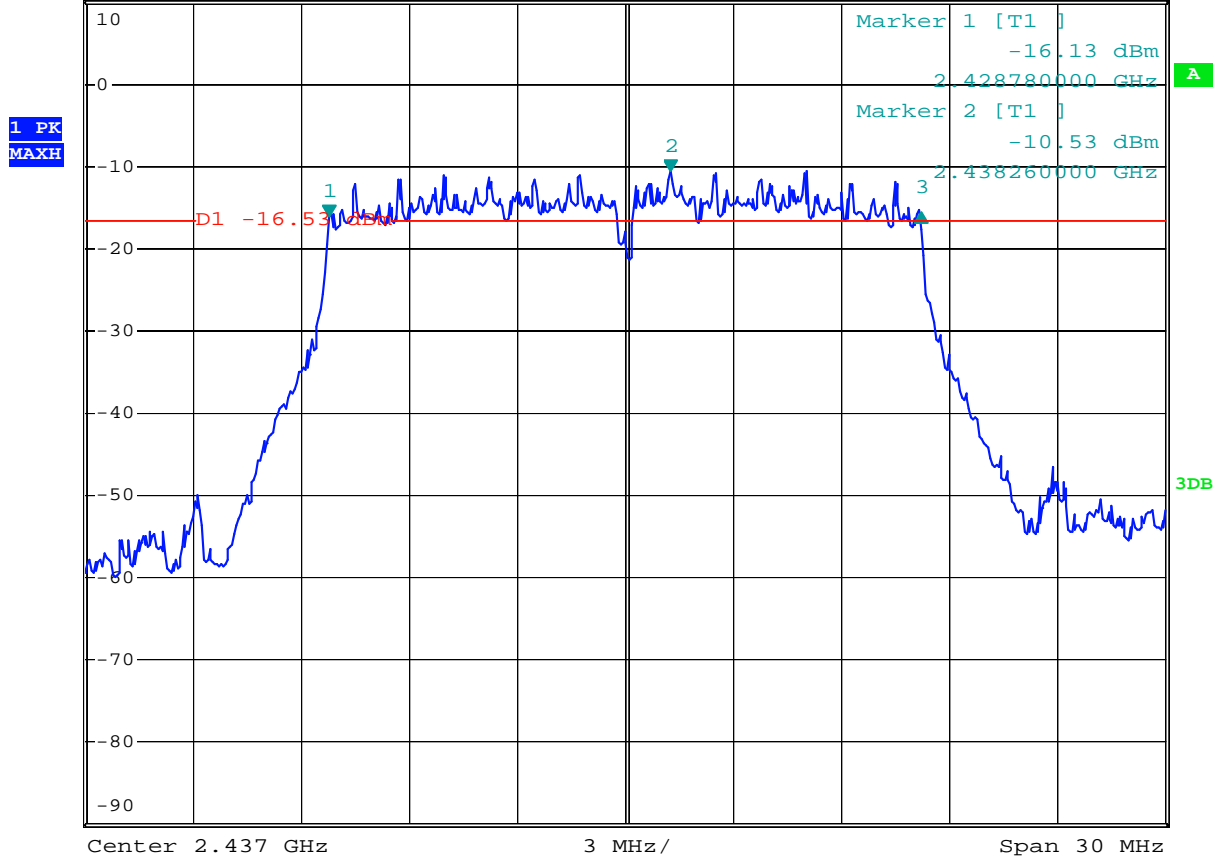


11. 802.11n at HT20 of CH06



**DELTA MARKER 3**  
 16.44 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.44 dB  
 SWT 10 ms 16.440000000 MHz



Date: 8.FEB.2012 13:06:50

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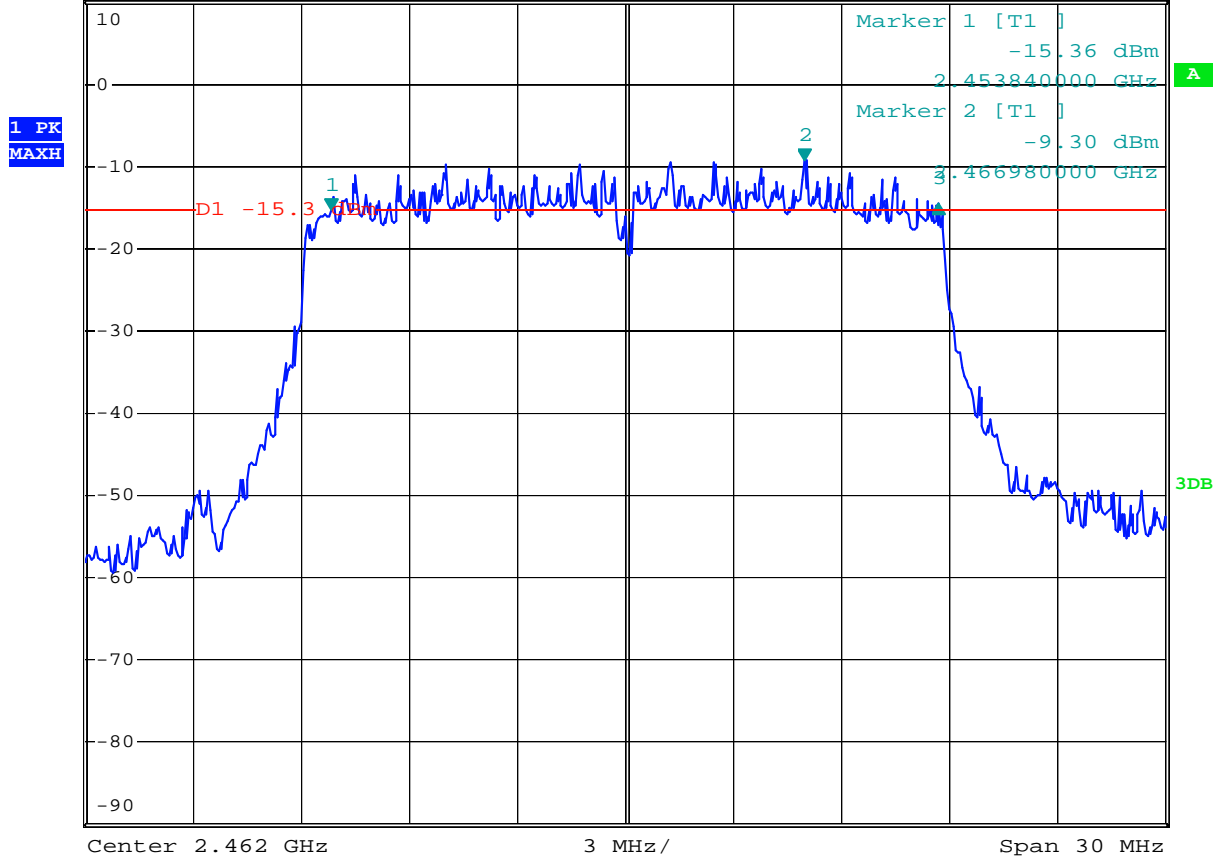


12. 802.11n at HT20 of CH11



**DELTA MARKER 3**  
 16.86 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.93 dB  
 SWT 10 ms 16.860000000 MHz

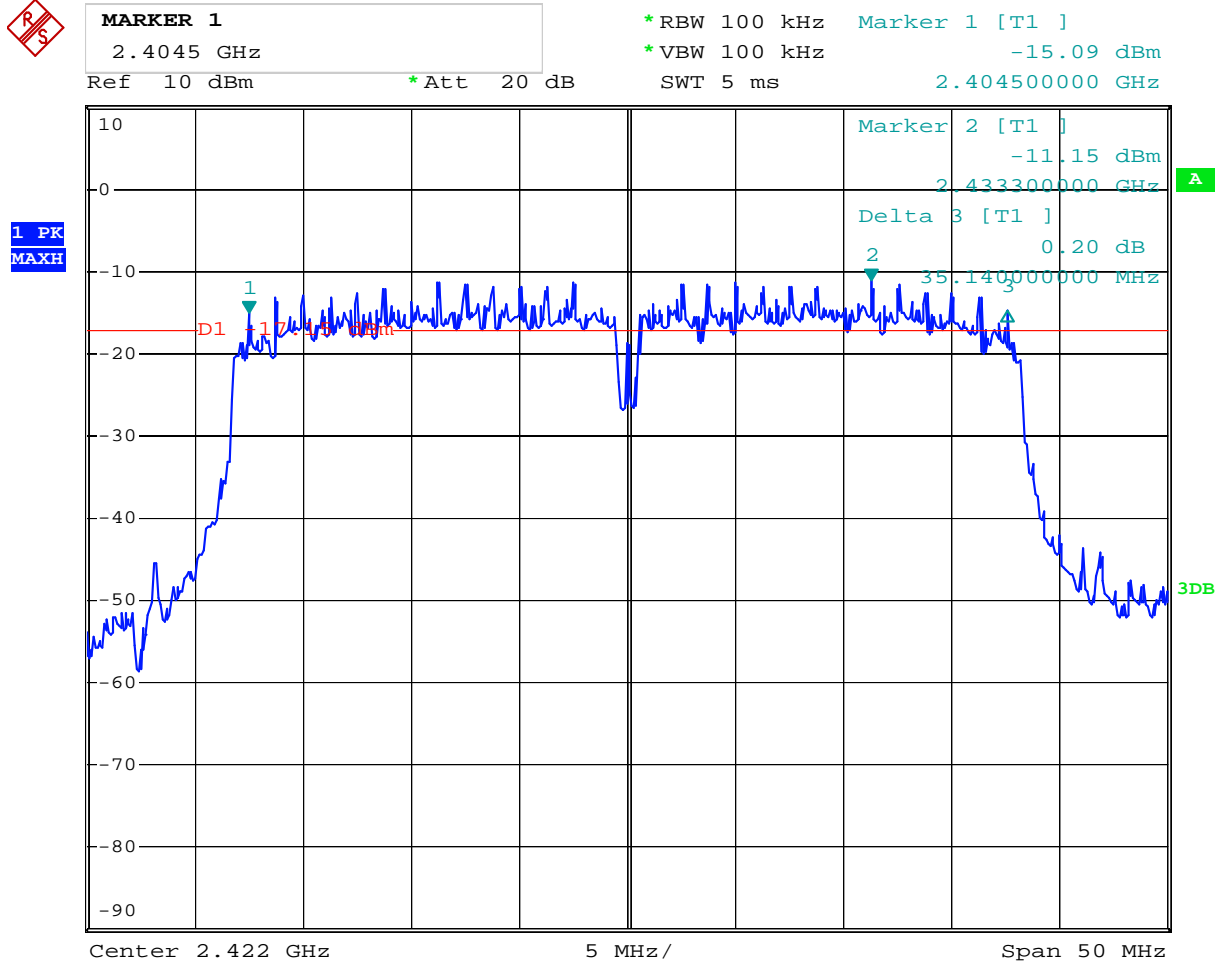


Date: 8.FEB.2012 13:12:42

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13. 802.11n at HT40 of CH01



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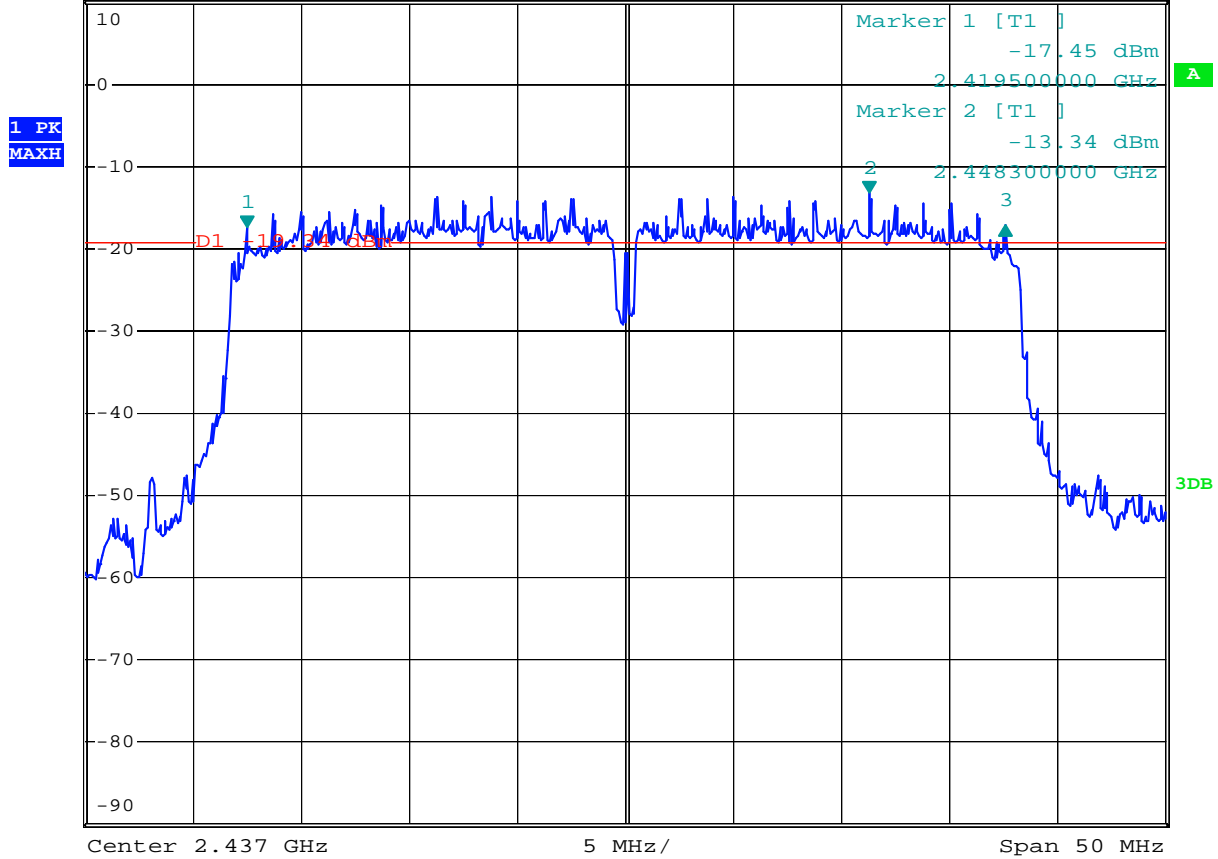


14. 802.11n at HT40 of CH04



**DELTA MARKER 3**  
 35.14 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz 0.17 dB  
 SWT 5 ms 35.14000000 MHz



Date: 8.FEB.2012 13:03:45

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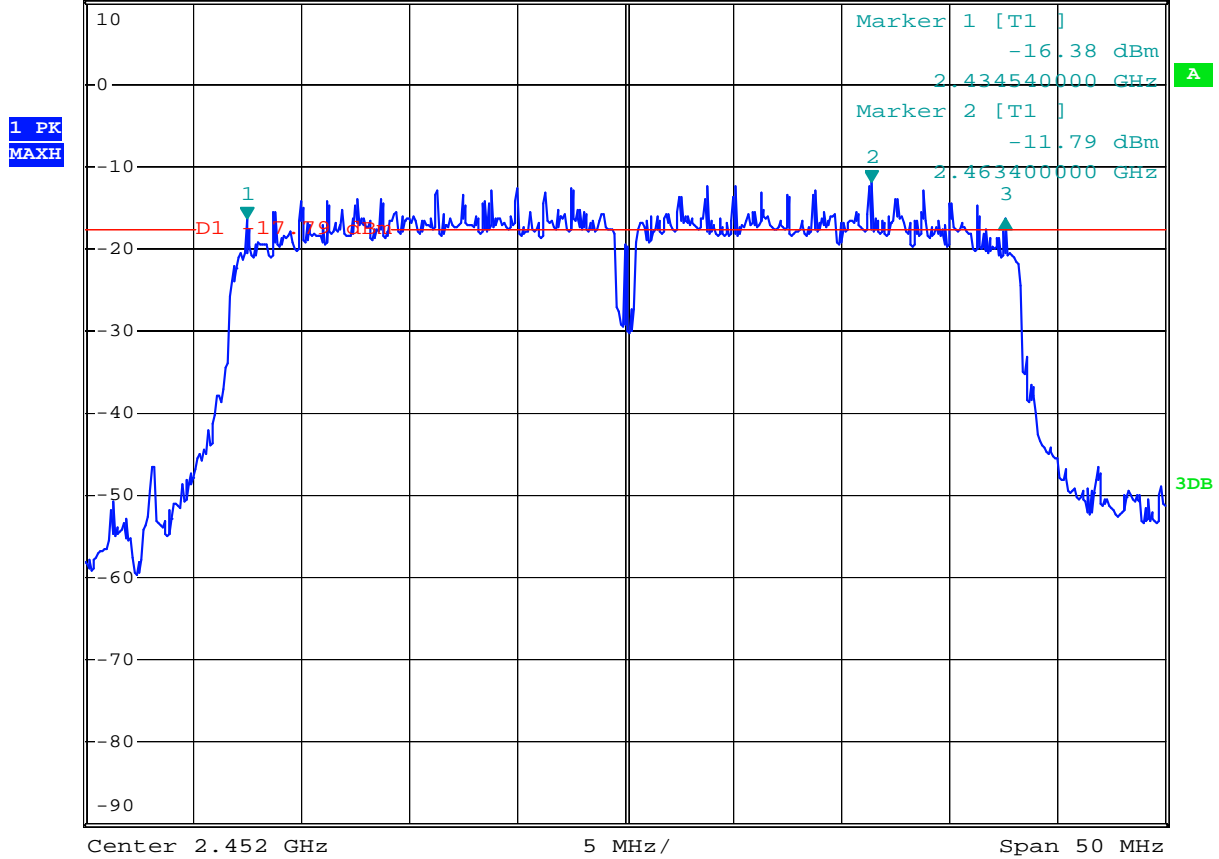


15. 802.11n at HT40 of CH7



**DELTA MARKER 3**  
 35.06 MHz  
 Ref 10 dBm \*Att 20 dB

\*RBW 100 kHz Delta 3 [T1 ]  
 \*VBW 100 kHz -0.03 dB  
 SWT 5 ms 35.060000000 MHz



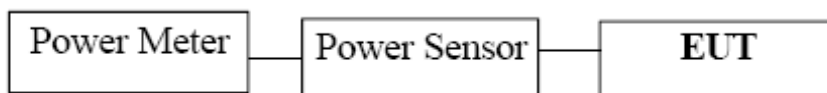
Date: 8.FEB.2012 13:14:14

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## 8. Maximum Peak Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector ( conducted measurement ) while EUT was operating in transmit mode at the appropriate centre frequency.

**Note: the peak power was measured**

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**8.4 Test Results**

EUT	WIFI Router/AP		Model	BL-WA01
Mode	802.11b		Input Voltage	See Below
Temperature	24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Test Voltage: 120V~				
1	2412	15.11	30	Pass
6	2437	14.77	30	Pass
11	2462	15.23	30	Pass
Test Voltage: 138V~				
1	2412	15.09	30	Pass
6	2437	14.89	30	Pass
11	2462	15.08	30	Pass
Test Voltage: 102V~				
1	2412	15.12	30	Pass
6	2437	14.85	30	Pass
11	2462	15.02	30	Pass

Note: 1. At final test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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EUT	WIFI Router/AP		Model	BL-WAxx
Mode	802.11g		Input Voltage	See Below
Temperature	24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Test Voltage:120V~				
1	2412	15.86	30	Pass
6	2437	15.64	30	Pass
11	2462	15.30	30	Pass
Test Voltage:138V~				
1	2412	15.74	30	Pass
6	2437	15.52	30	Pass
11	2462	15.32	30	Pass
Test Voltage:102V~				
1	2412	15.76	30	Pass
6	2437	15.59	30	Pass
11	2462	15.37	30	Pass

Note: 1. At final test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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EUT	WIFI Router/AP	Model	BL-WA01	
Mode	802.11n HT20	Input Voltage	See Below	
Temperature	24 deg. C,	Humid Pity	56% RH	
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Test Voltage:120V~				
1	2412	13.43	30	Pass
6	2437	13.11	30	Pass
11	2462	13.05	30	Pass
Test Voltage:138V~				
1	2412	13.52	30	Pass
6	2437	13.15	30	Pass
11	2462	13.11	30	Pass
Test Voltage:102V~				
1	2412	13.46	30	Pass
6	2437	13.08	30	Pass
11	2462	13.04	30	Pass

Note: 1. At final test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

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EUT	WIFI Router/AP		Model	BL-WA01
Mode	802.11n HT40		Input Voltage	See Below
Temperature	24 deg. C,		Humid Pity	56% RH
Channel	Channel Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Test Voltage:120V~				
1	2422	13.75	30	Pass
5	2437	13.53	30	Pass
7	2452	13.64	30	Pass
Test Voltage:138V~				
1	2422	13.82	30	Pass
5	2437	13.41	30	Pass
7	2452	13.58	30	Pass
Test Voltage:102V~				
1	2422	13.77	30	Pass
5	2437	13.47	30	Pass
7	2452	13.65	30	Pass

Note: 1. At final test to get the worst-case emission at 65Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

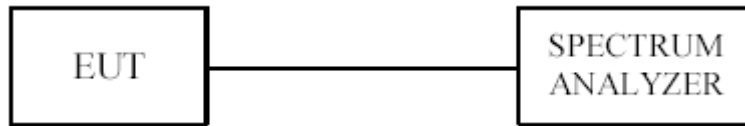
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

### 9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 10kHz VBW, set sweep time=100s, **PK detector**.

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3 kHz for a full response of the mixer in the spectrum analyzer.

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**9.4 Test Result**

EUT	WIFI Router/AP		Model	BL-WA01	
Mode	802.11b		Input Voltage	AC 120V	
Temperature	24 deg. C,		Humid Pity	56% RH	
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail	
11Mbps					
1	2412	-5.46	8	Pass	
6	2437	-8.00	8	Pass	
11	2462	-6.52	8	Pass	

**Note:** At final test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

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EUT	WIFI Router/AP		Model	BL-WAxx
Mode	802.11g		Input Voltage	AC 120V
Temperature	24 deg. C,		HuWIFI Router/APity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
54Mbps				
1	2412	-26.25	8	Pass
6	2437	-26.36	8	Pass
11	2462	-26.38	8	Pass

**Note:** At final test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

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EUT	WIFI Router/AP		Model	BL-WA01
Mode	802.11n HT20		Input Voltage	AC 120V
Temperature	24 deg. C,		HuWIFI Router/APity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
11n HT20				
1	2412	-26.42	8	Pass
6	2437	-26.28	8	Pass
11	2462	-26.33	8	Pass

**Note:** At final test to get the worst-case emission at 11n for CH01, CH06 and CH11

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EUT	WIFI Router/AP		Model	BL-WA01
Mode	802.11n HT40		Input Voltage	AC 120V
Temperature	24 deg. C,		HuWIFI Router/APity	56% RH
Channel	Channel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail
11n HT40				
1	2422	-31.08	8	Pass
5	2437	-30.97	8	Pass
7	2452	-30.93	8	Pass

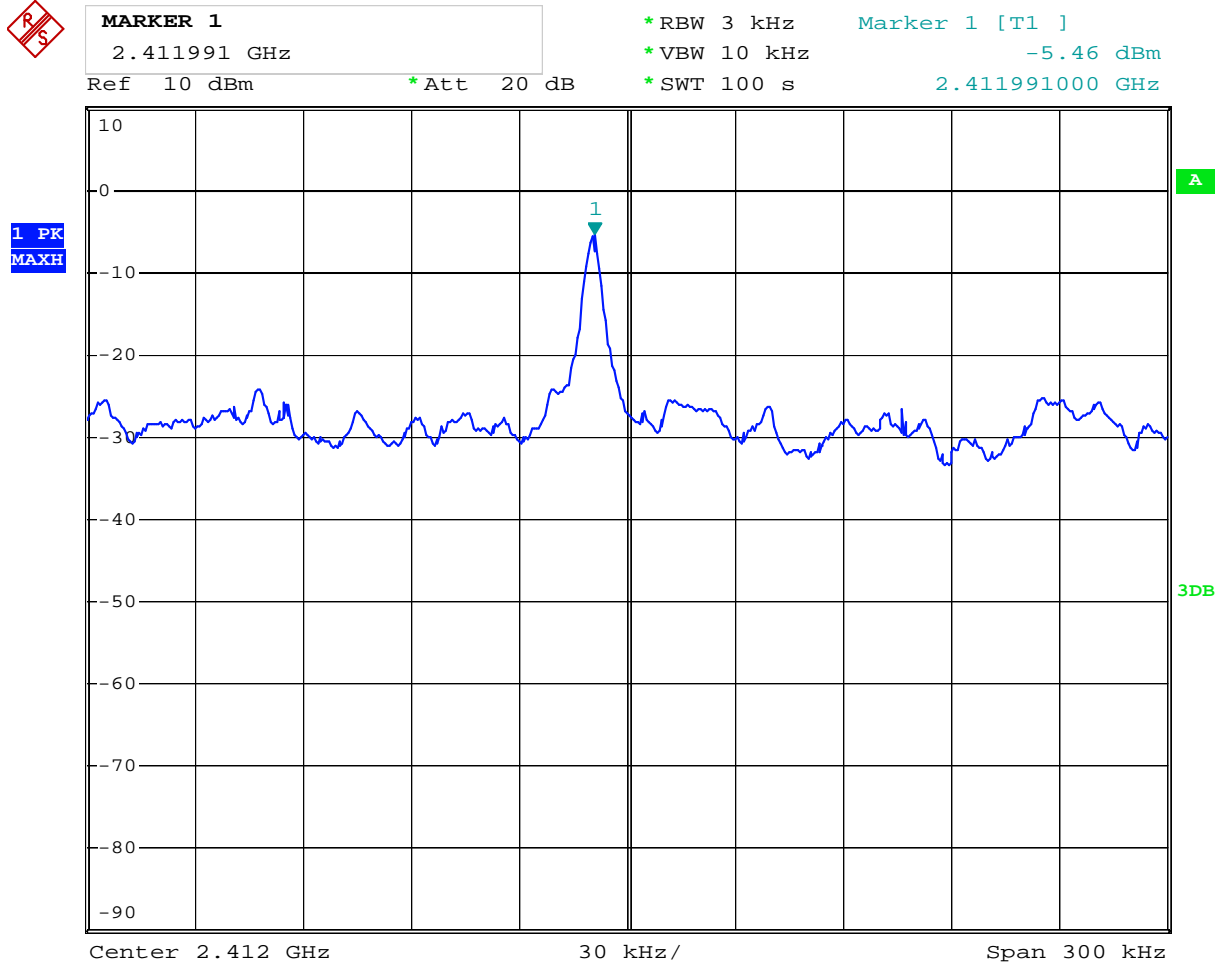
**Note:** At final test to get the worst-case emission at 11n for CH01, CH06 and CH11

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### 9.5 Photo of Power Spectral Density Measurement

#### 1. 802.11g at 11Mbps of CH01

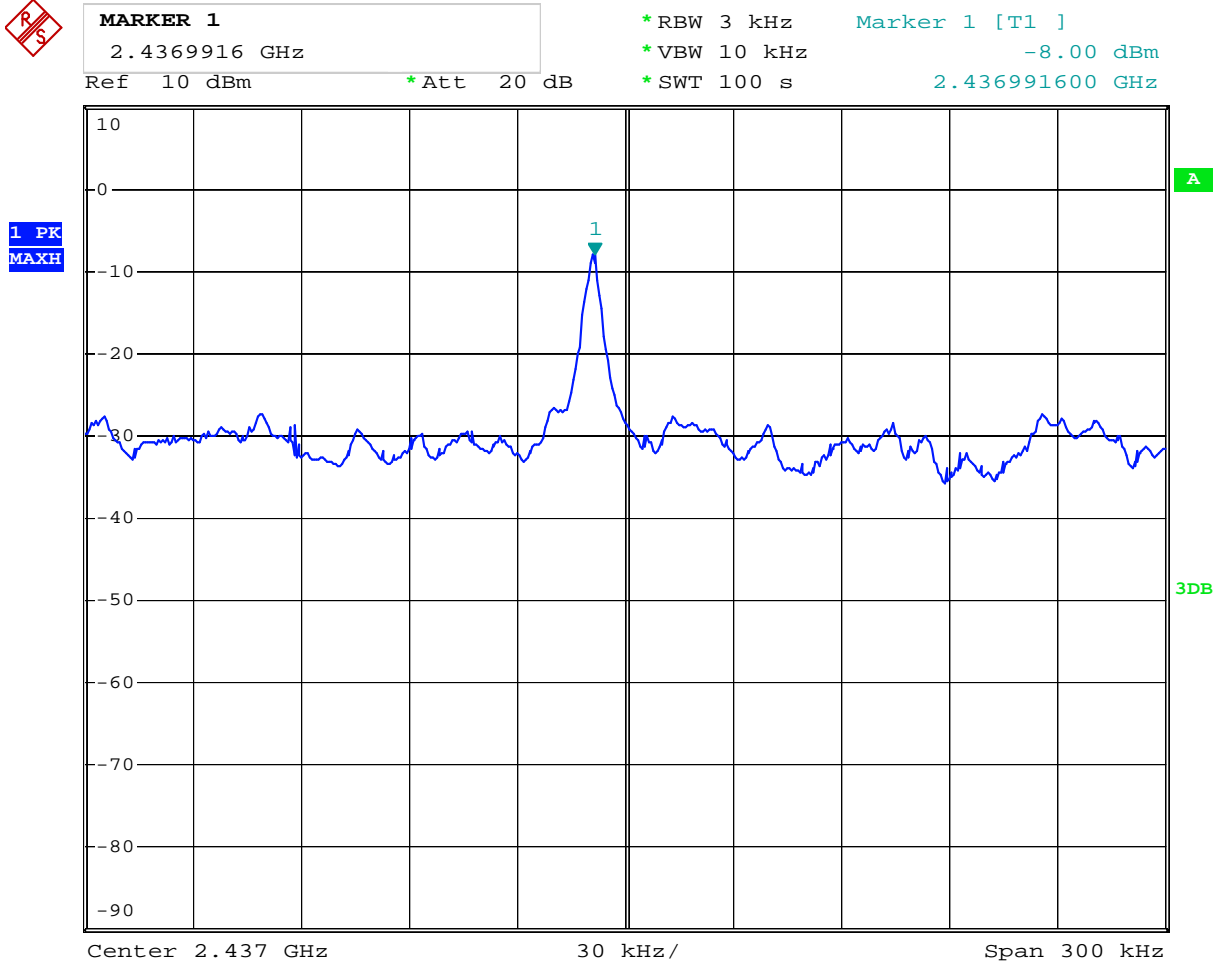


Date: 8.FEB.2012 13:22:41

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2. 802.11g at 11Mbps of CH06

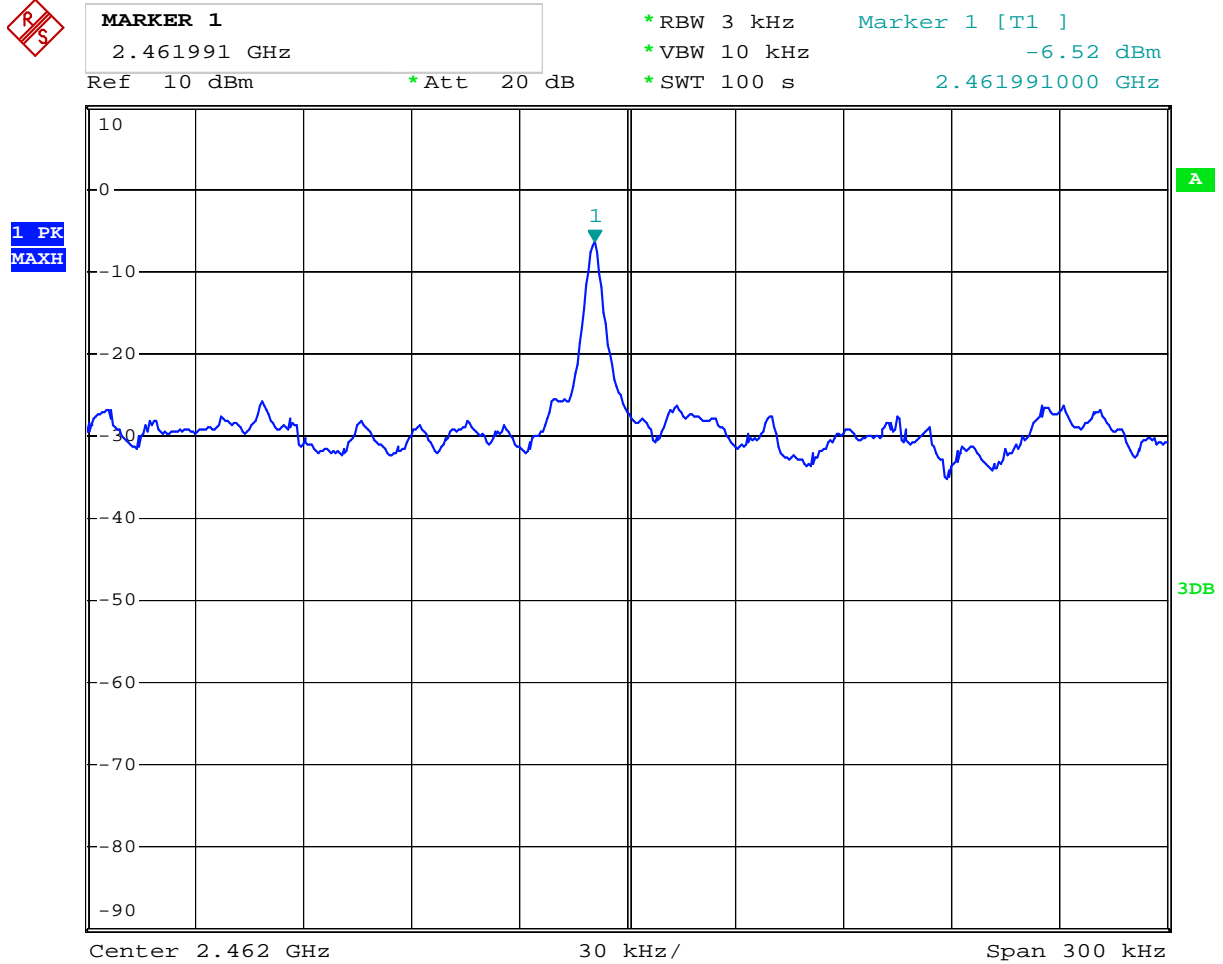


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3. 802.11g at 11Mbps of CH11

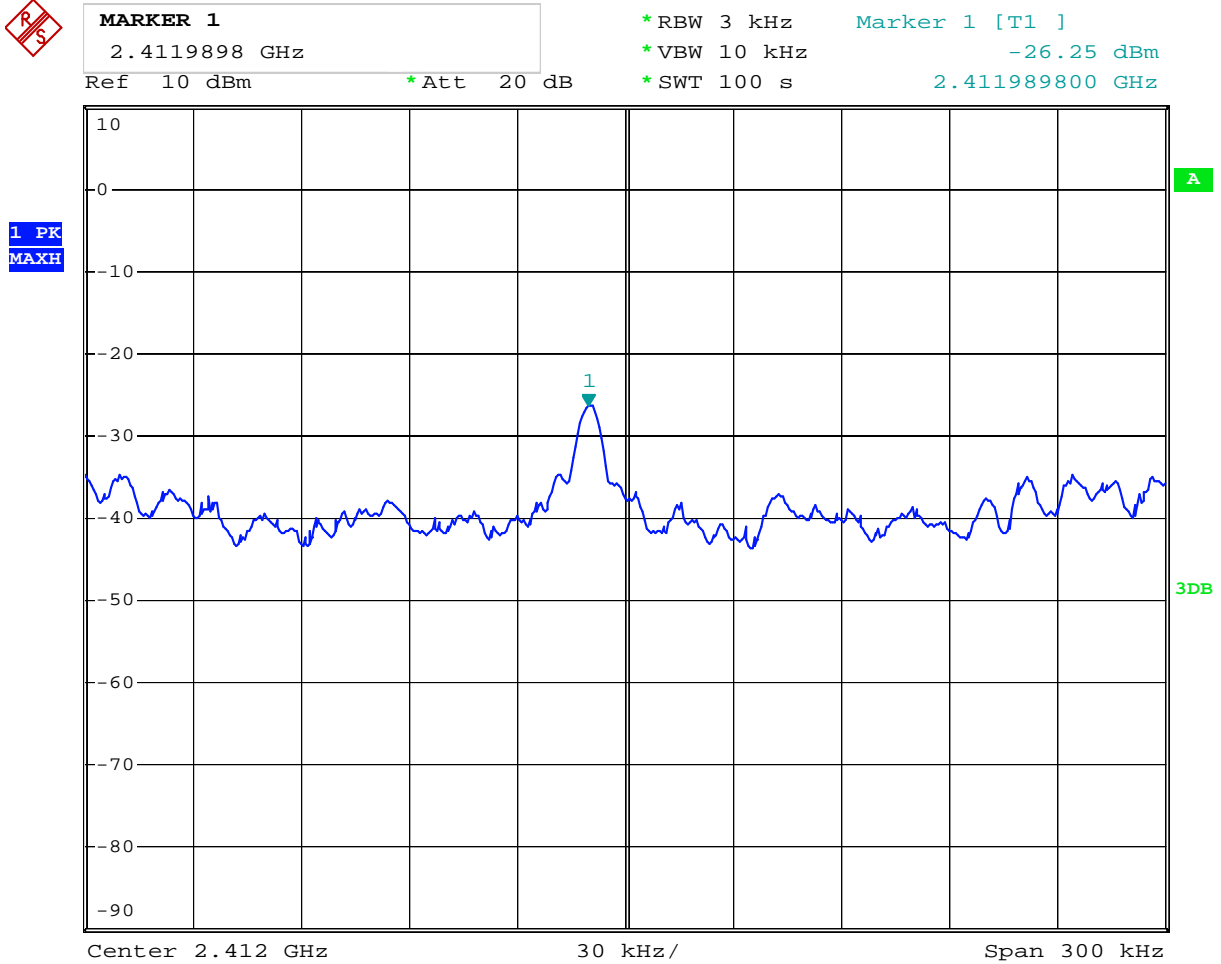


Date: 8.FEB.2012 13:37:56

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4. 802.11g at 54Mbps of CH1

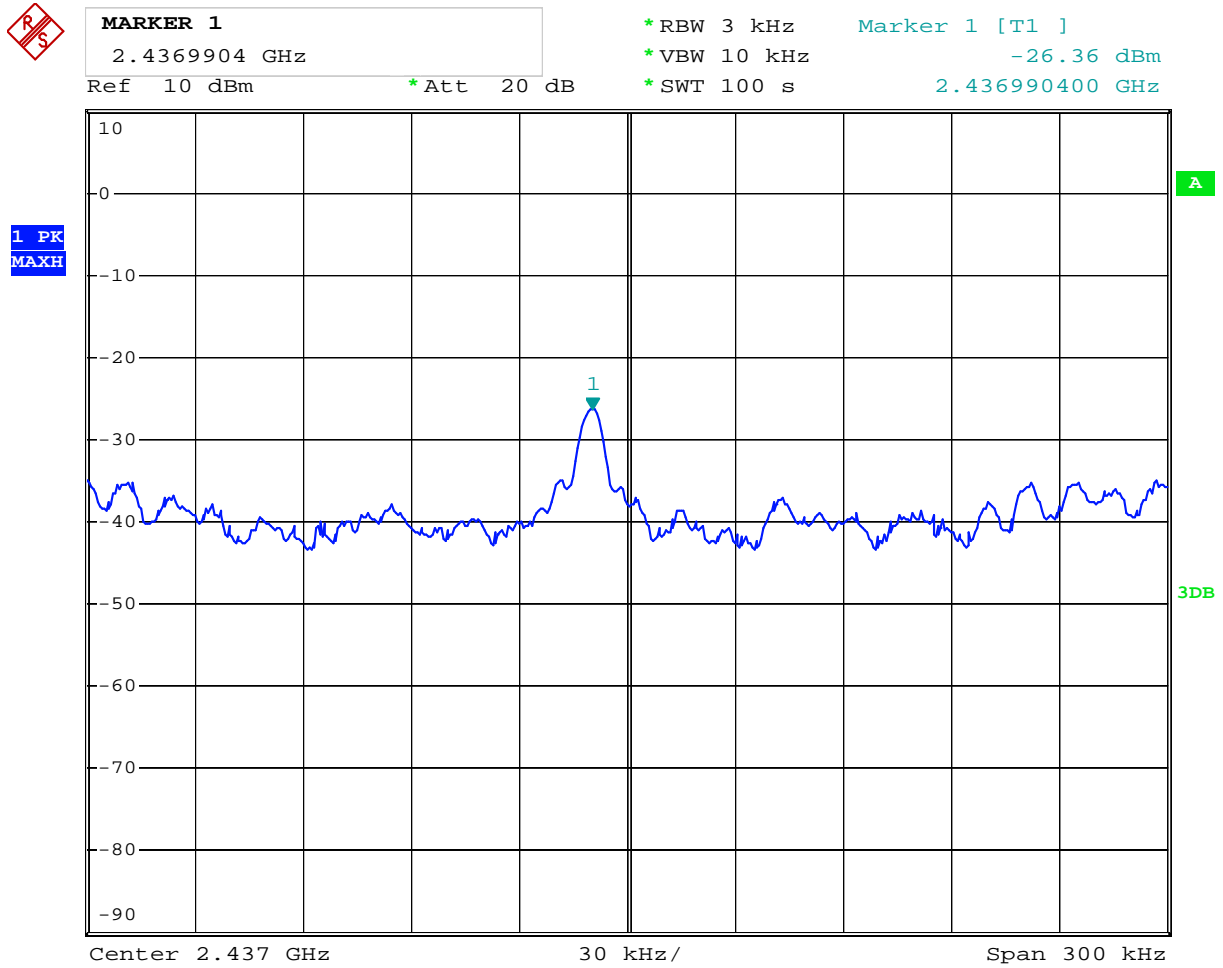


Date: 8.FEB.2012 13:51:59

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5. 802.11g at 54Mbps of CH6

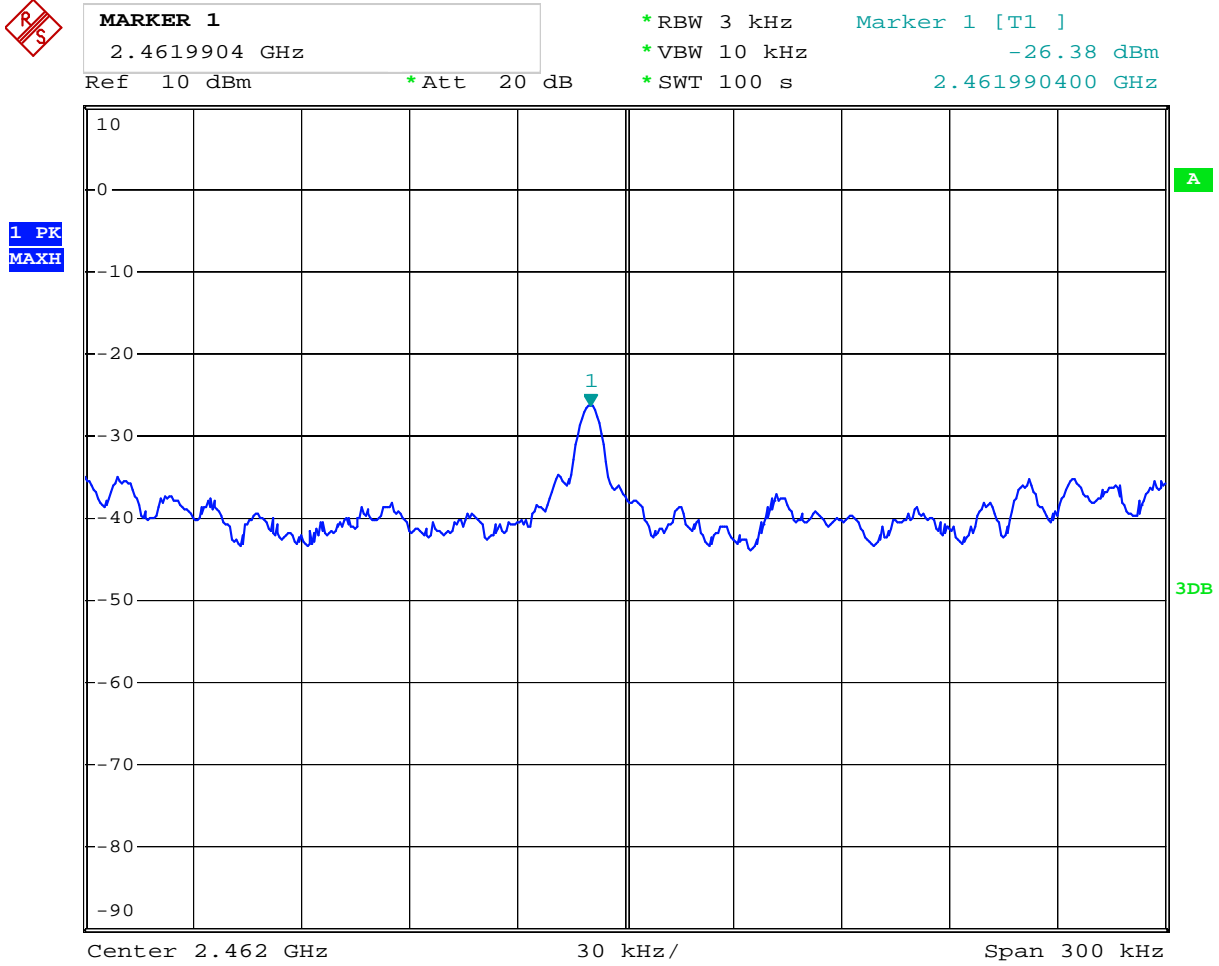


Date: 8.FEB.2012 13:48:07

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6. 802.11g at 54Mbps of CH11

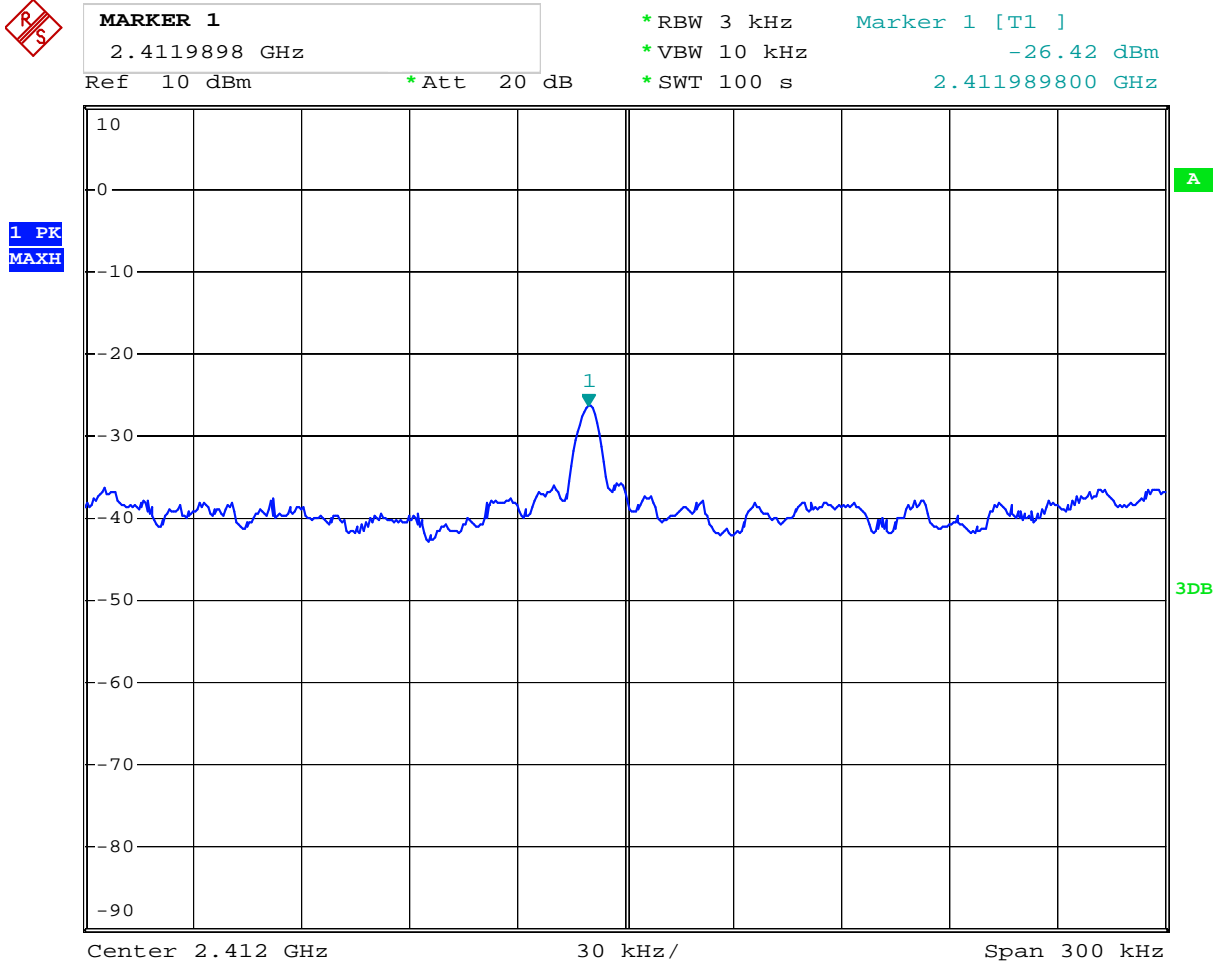


Date: 8.FEB.2012 13:42:44

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7. 802.11n at HT20 of CH01 65Mbps



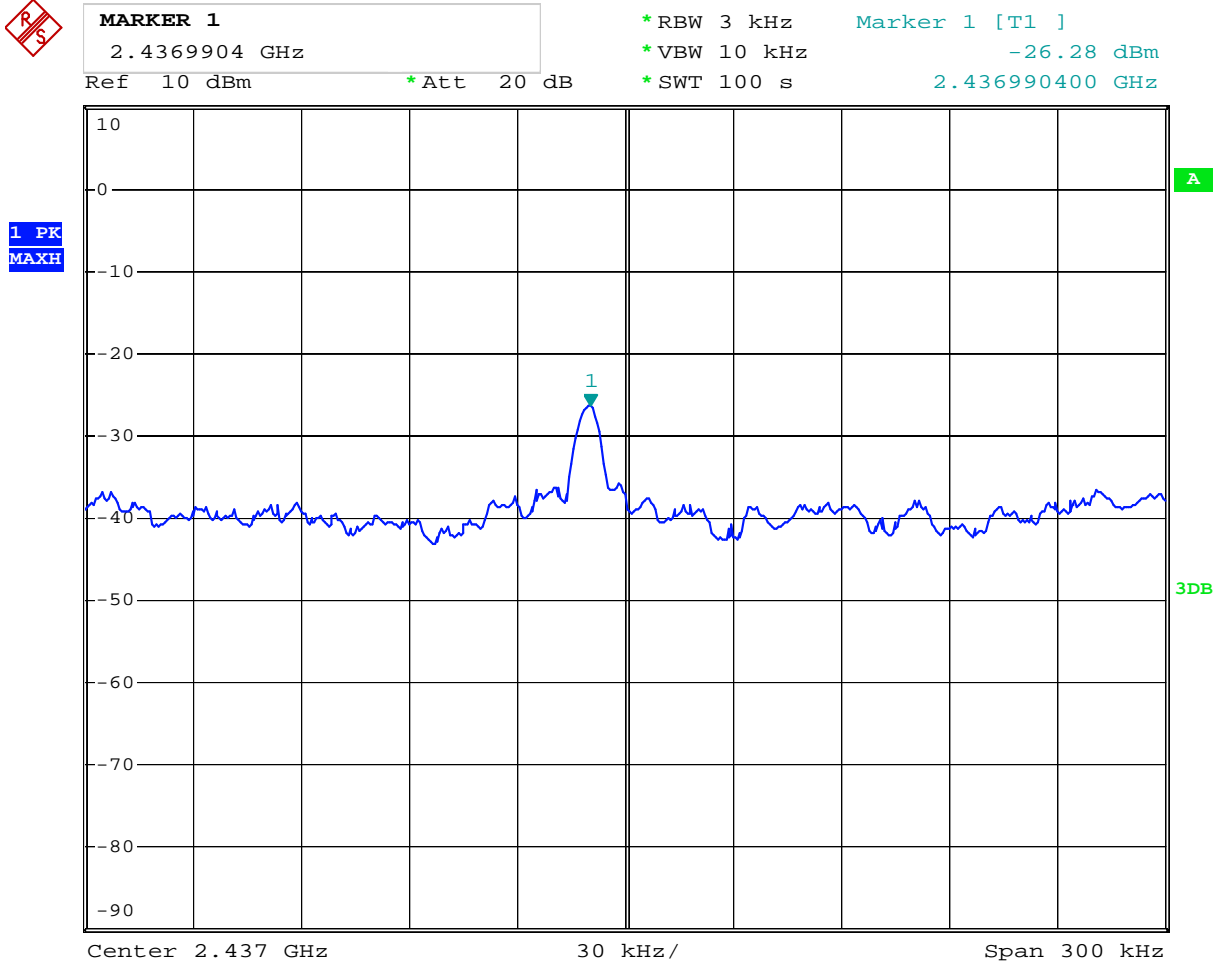
Date: 8.FEB.2012 13:57:31

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8. 802.11n at HT20 of CH06 65Mbps

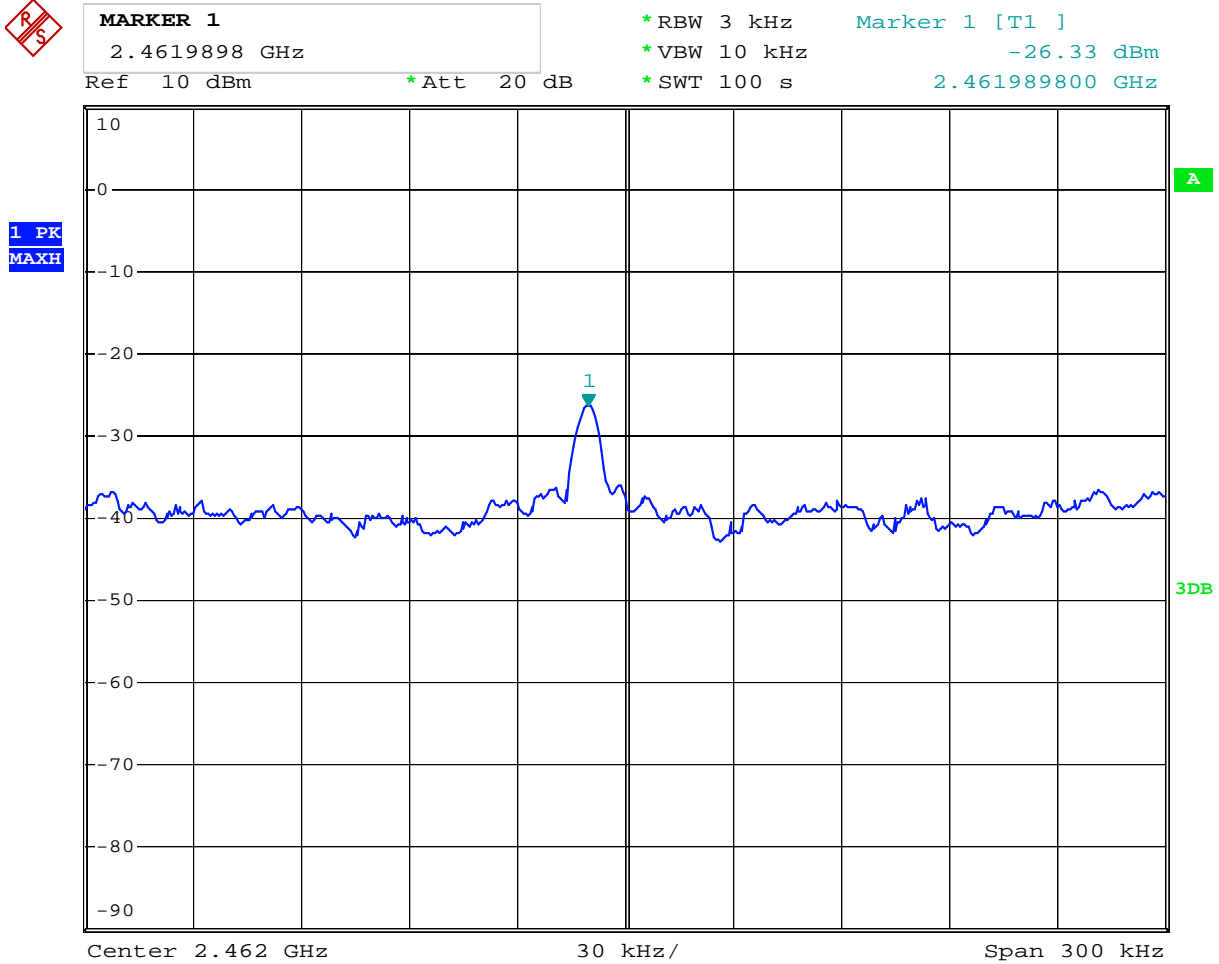


Date: 8.FEB.2012 14:02:55

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9. 802.11n at HT20 of CH11 65Mbps

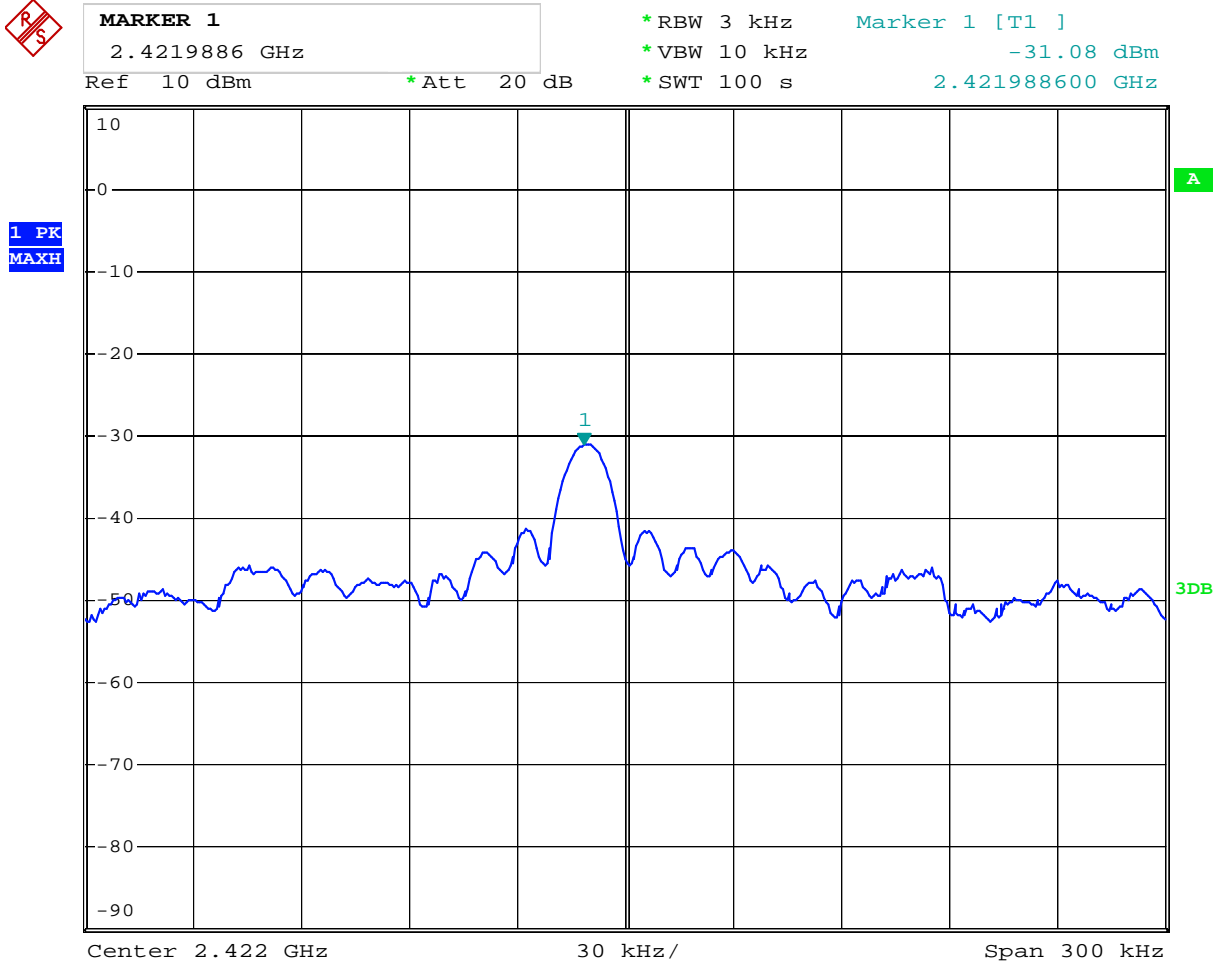


Date: 8.FEB.2012 14:12:08

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10. 802.11n at HT40 of CH01 65Mbps

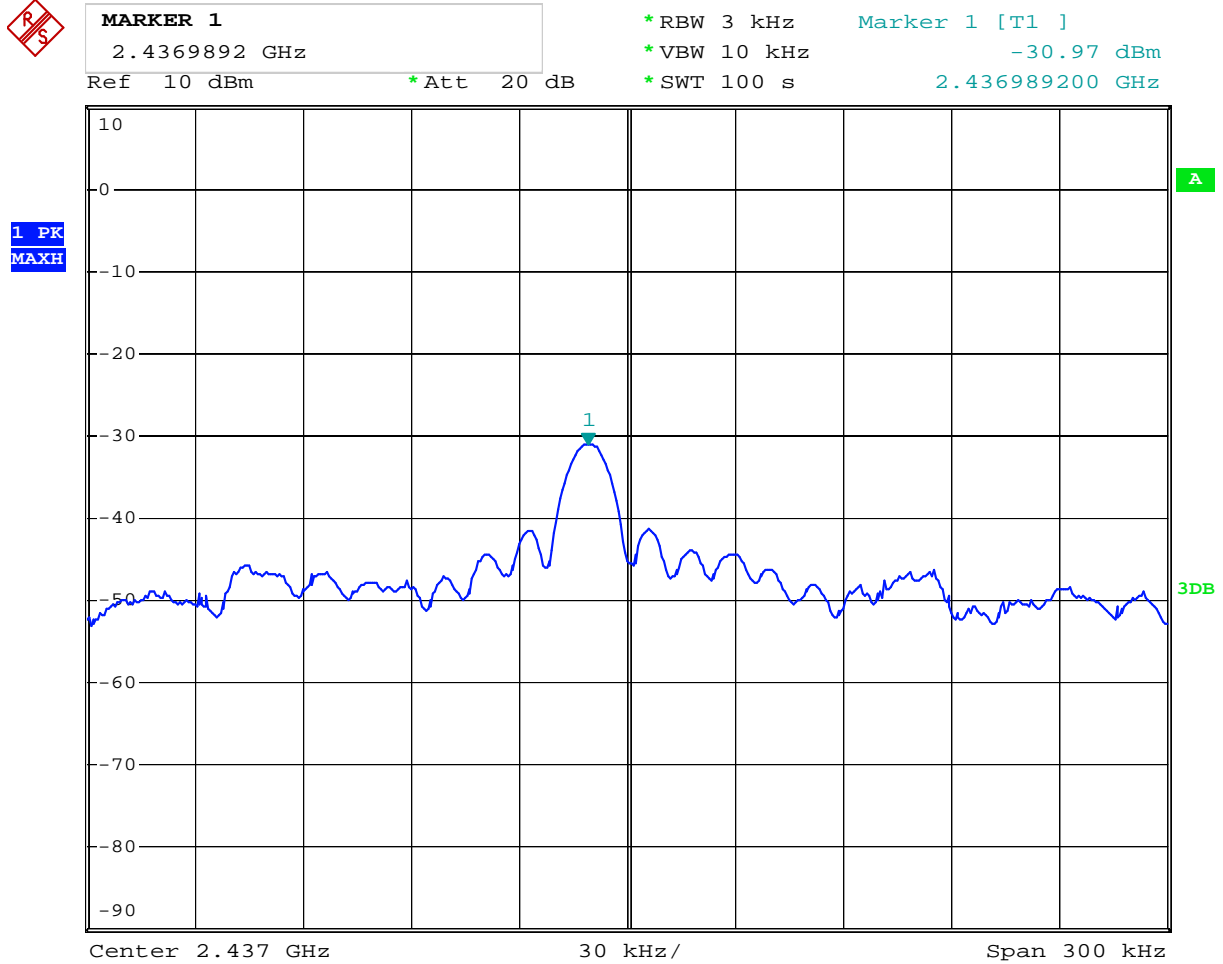


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11. 802.11n at HT40 of CH06 65Mbps

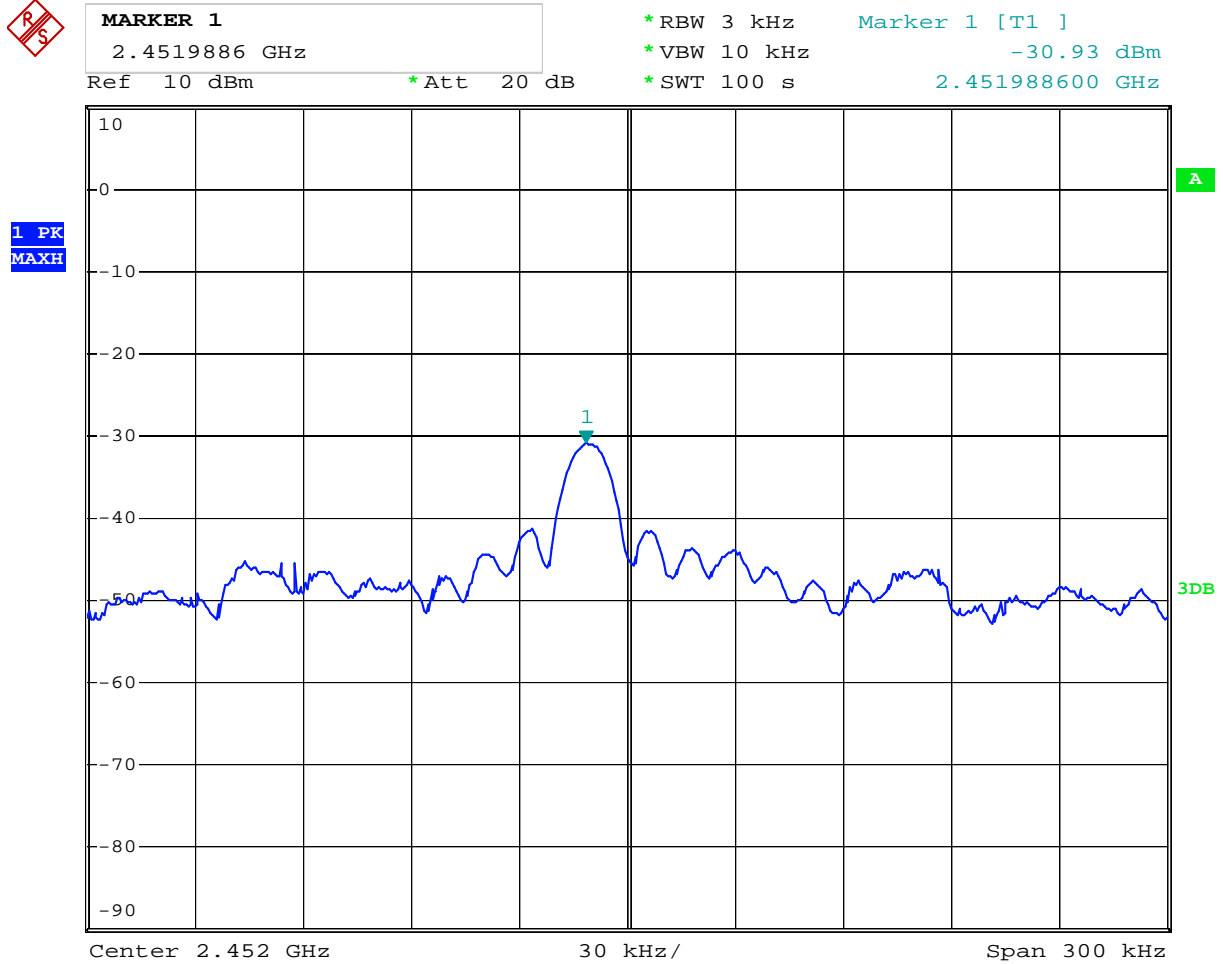


Date: 8.FEB.2012 14:20:21

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12. 802.11n at HT40 of CH11 65Mbps

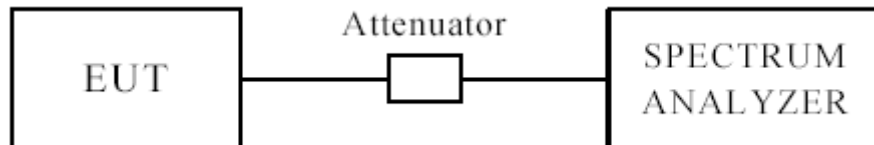


Date: 8.FEB.2012 14:16:20

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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



**The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup**

### 10.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Note: This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position.

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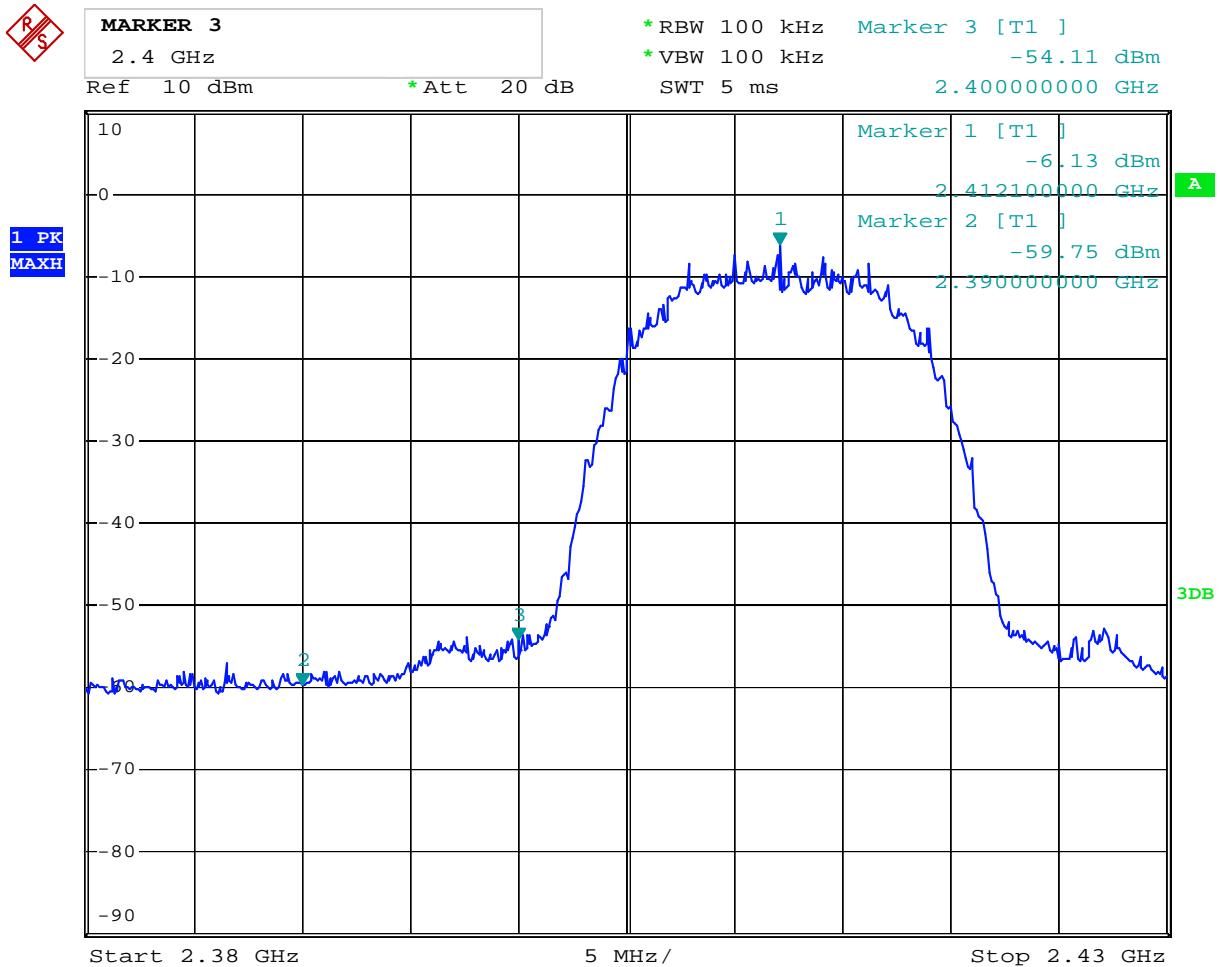
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:37:17

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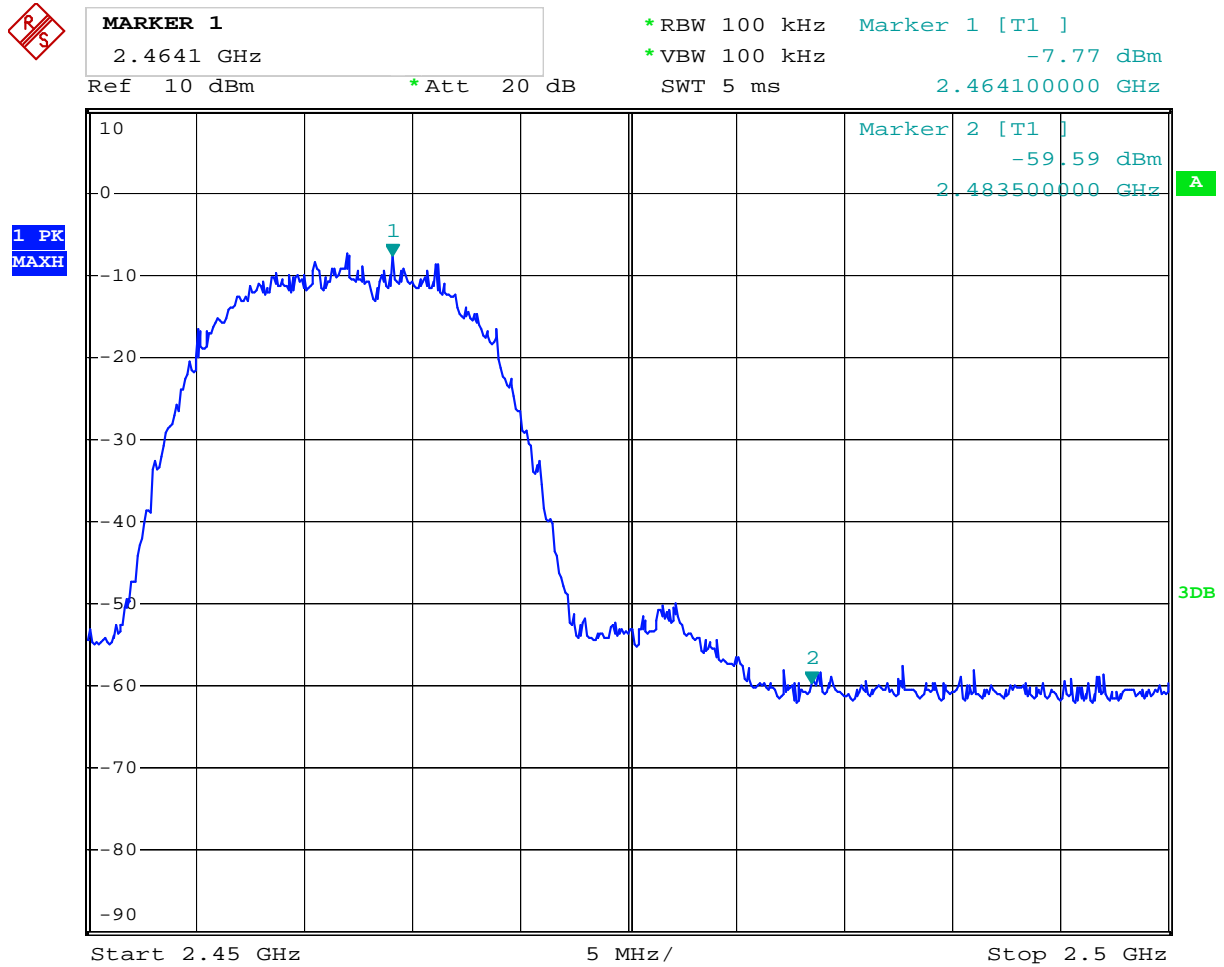


CH11 at 11Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:41:58

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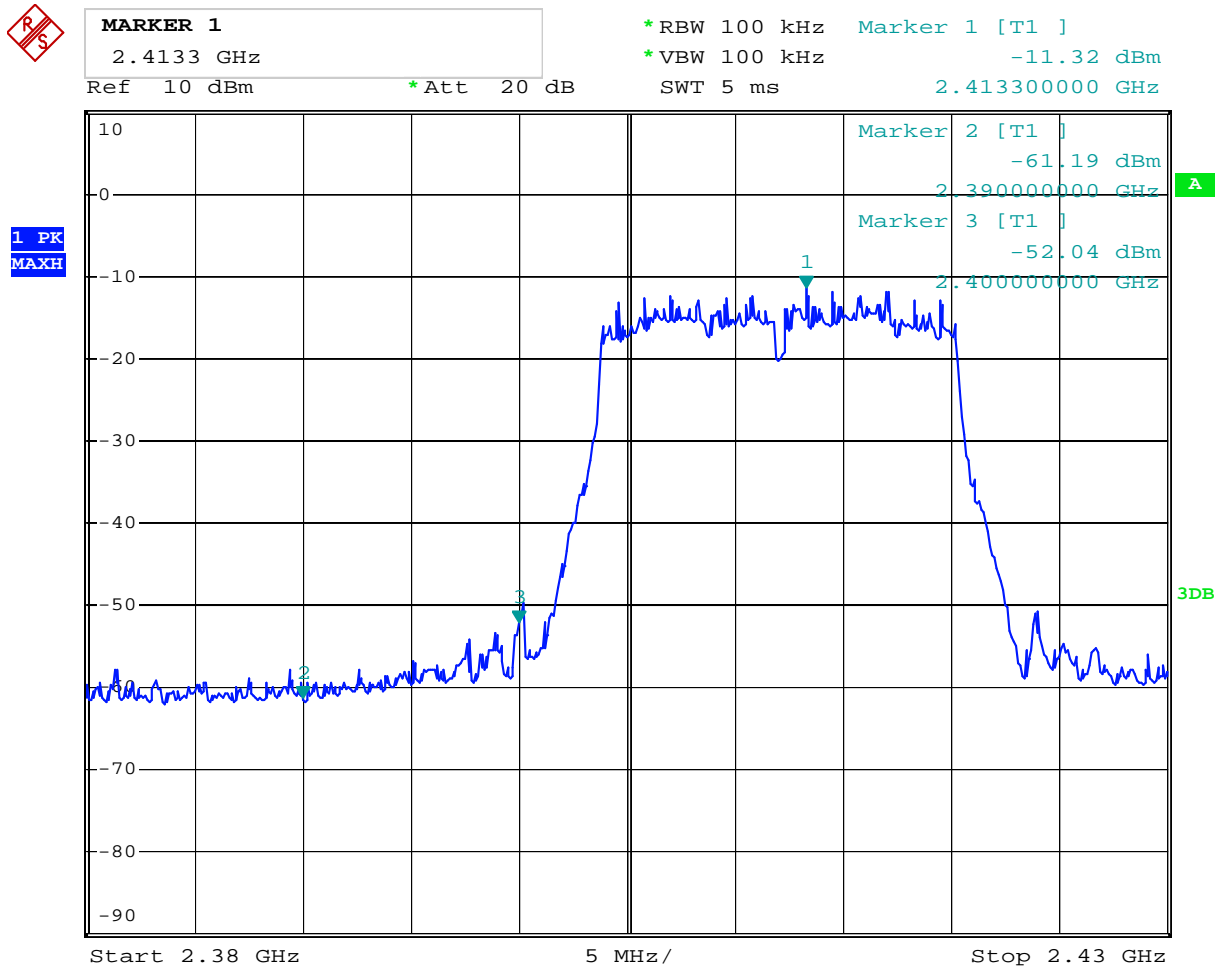
For 802.11g mode

CH01 at 54Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:37:50

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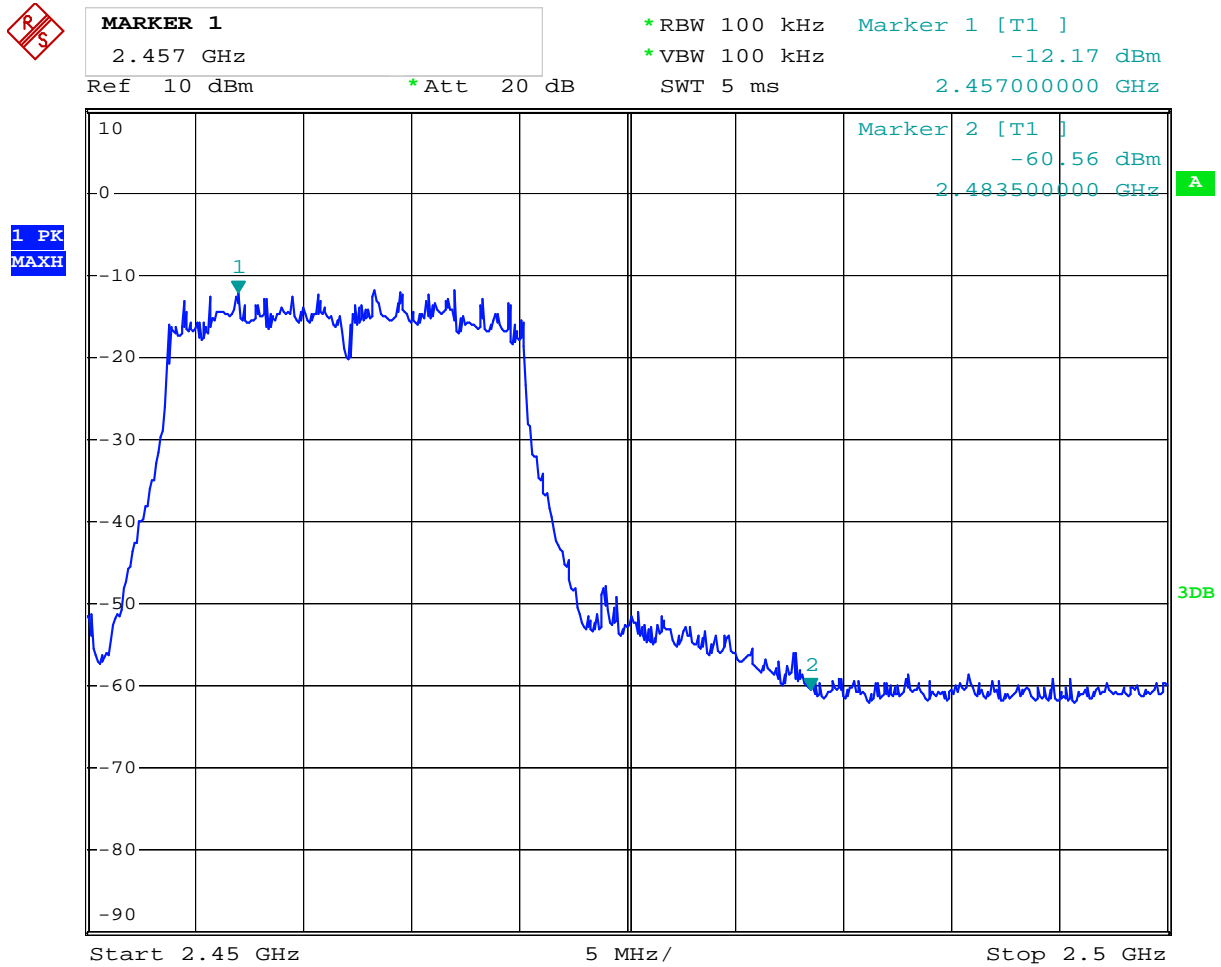


CH11 at 54Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:41:29

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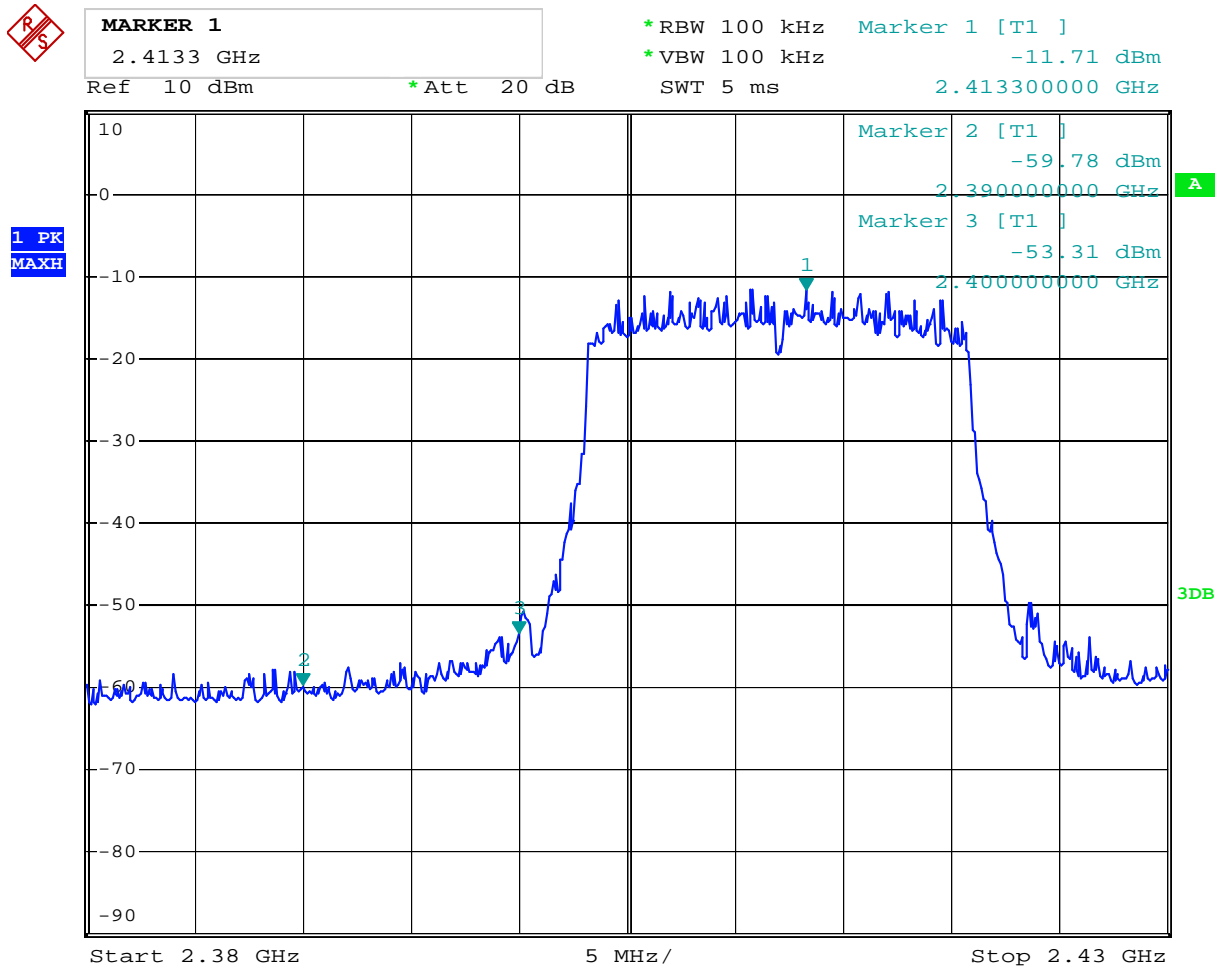
For 802.11n mode

CH01 at HT20 65Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:38:20

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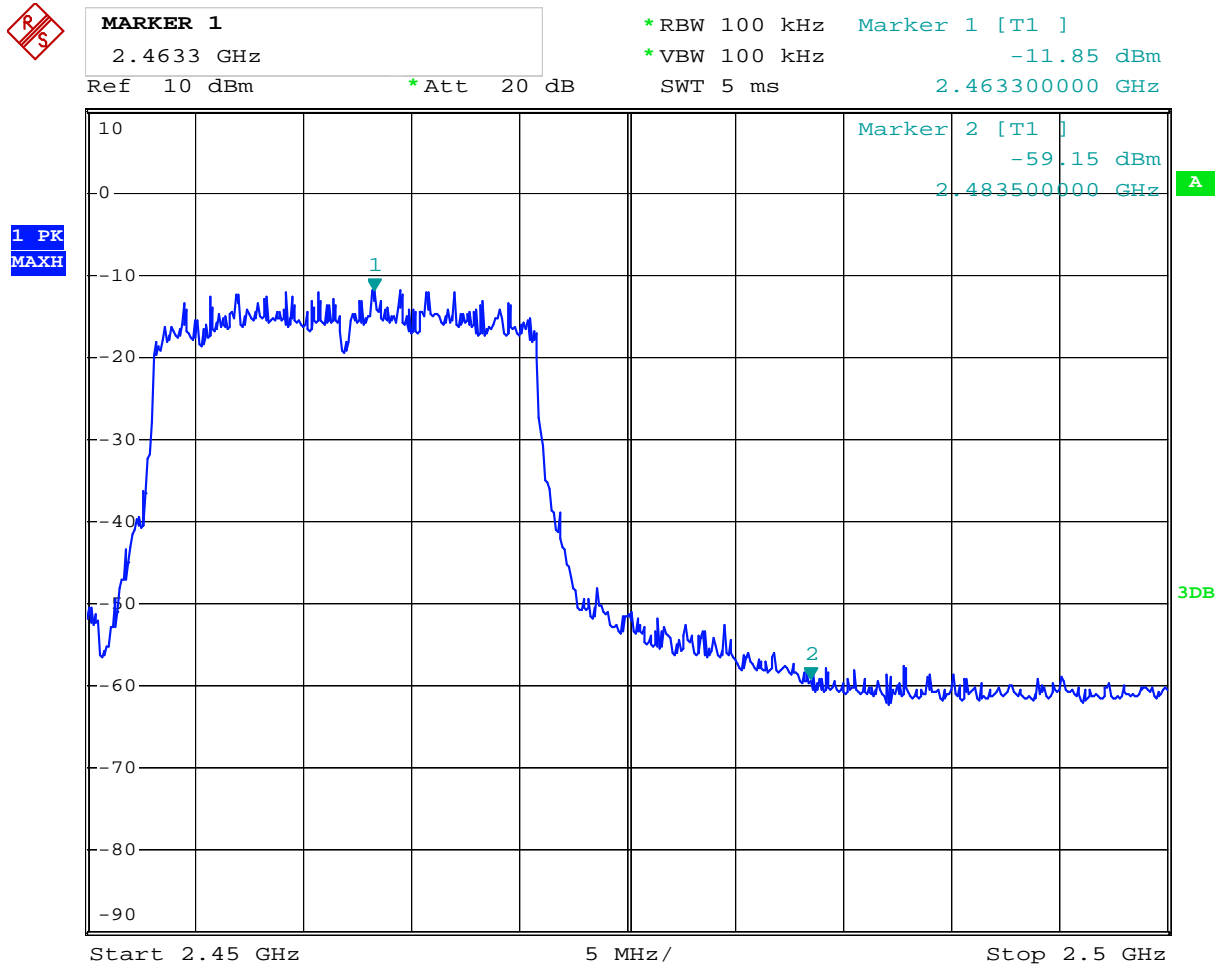


CH11 at HT20 65Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:40:57

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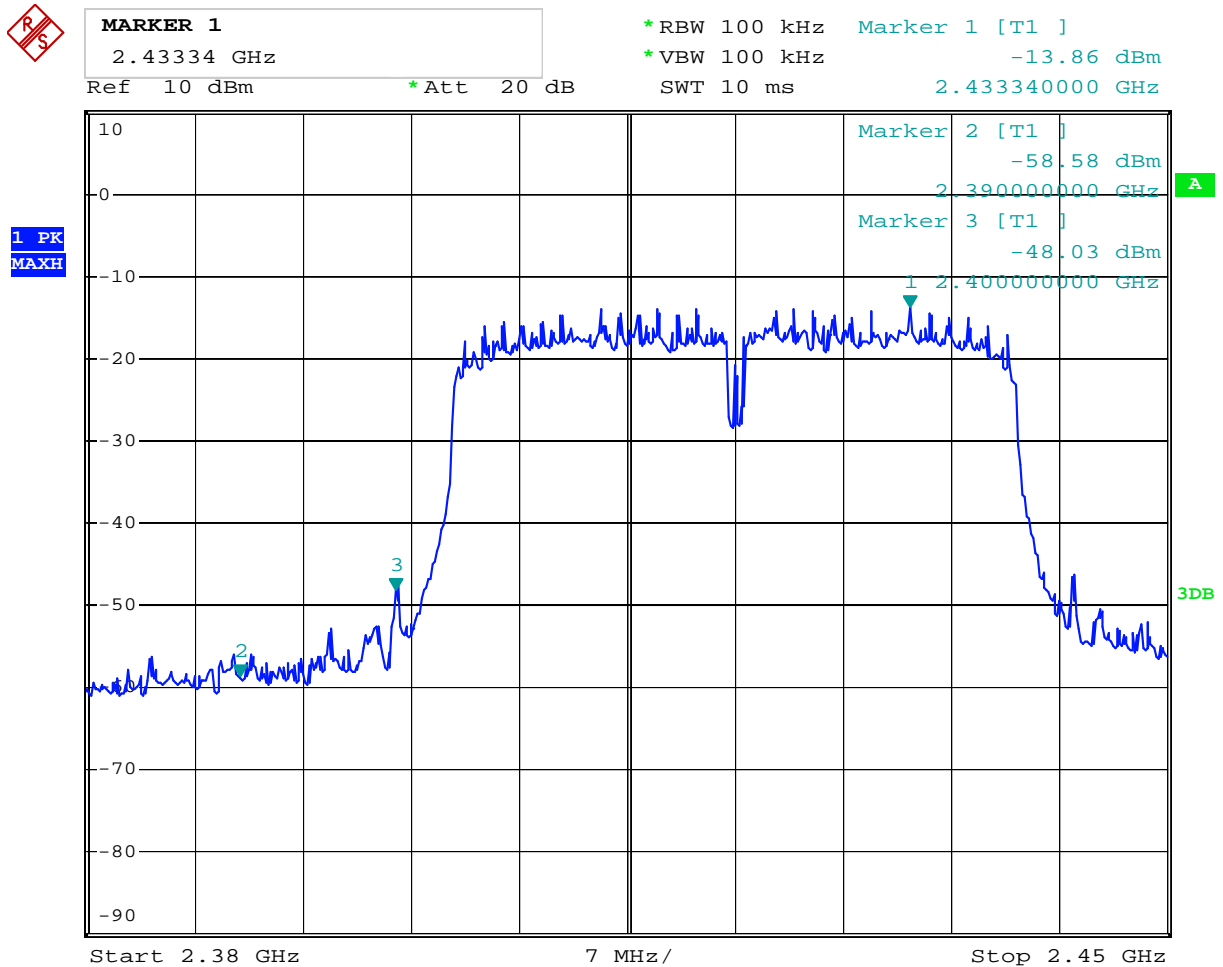
For 802.11n mode

CH01 at HT40 65Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Humid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:39:17

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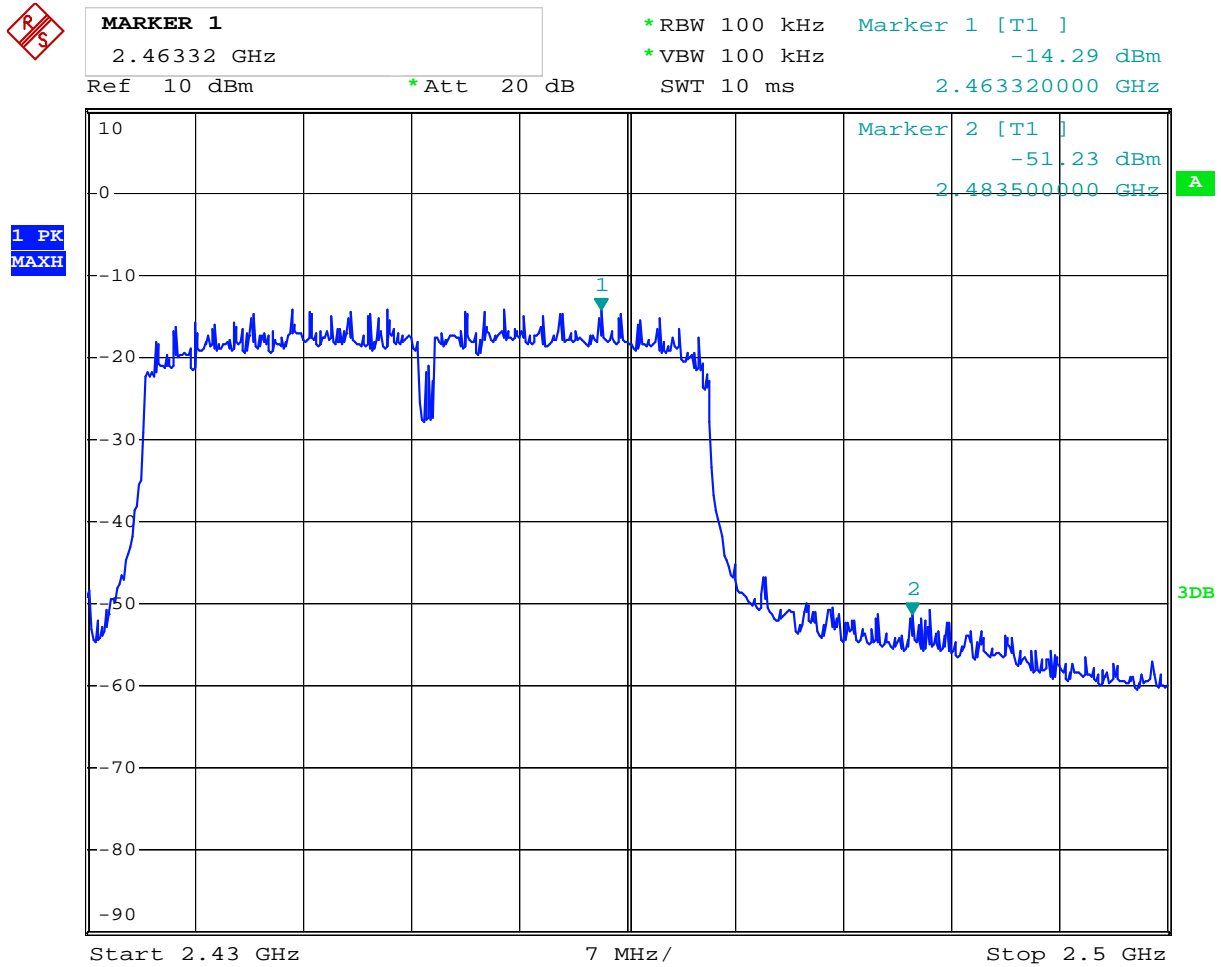


CH11 at HT40 65Mbps

10.4 Band-edge Measurement

Product:	WIFI Router/AP	Model:	BL-WA01
Mode	Keeping Transmitting	Input Voltage	AC 120V
Temperature	24 deg. C,	Hmid Pity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 8.FEB.2012 14:40:16

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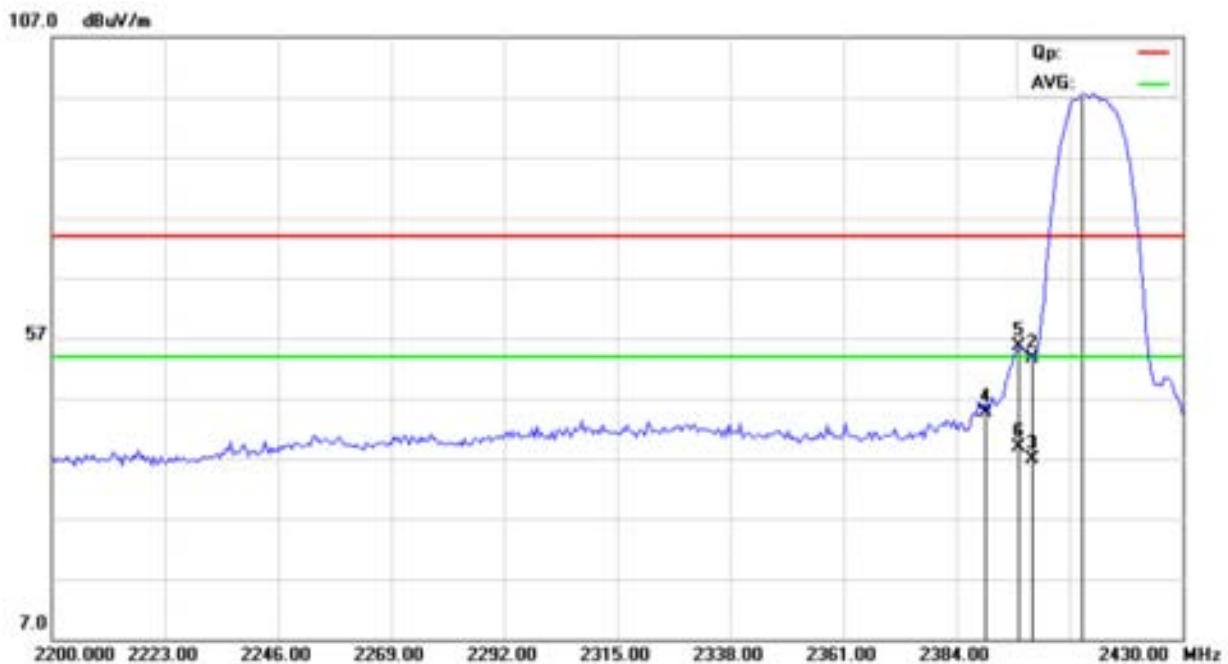
For 802.11b mode

CH01 at 11Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dB $\mu$ V/m)	53.66	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	36.89		54(dB $\mu$ V/m)
2396	PK (dB $\mu$ V/m)	55.66	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	38.91		54(dB $\mu$ V/m)
2390	PK (dB $\mu$ V/m)	44.68	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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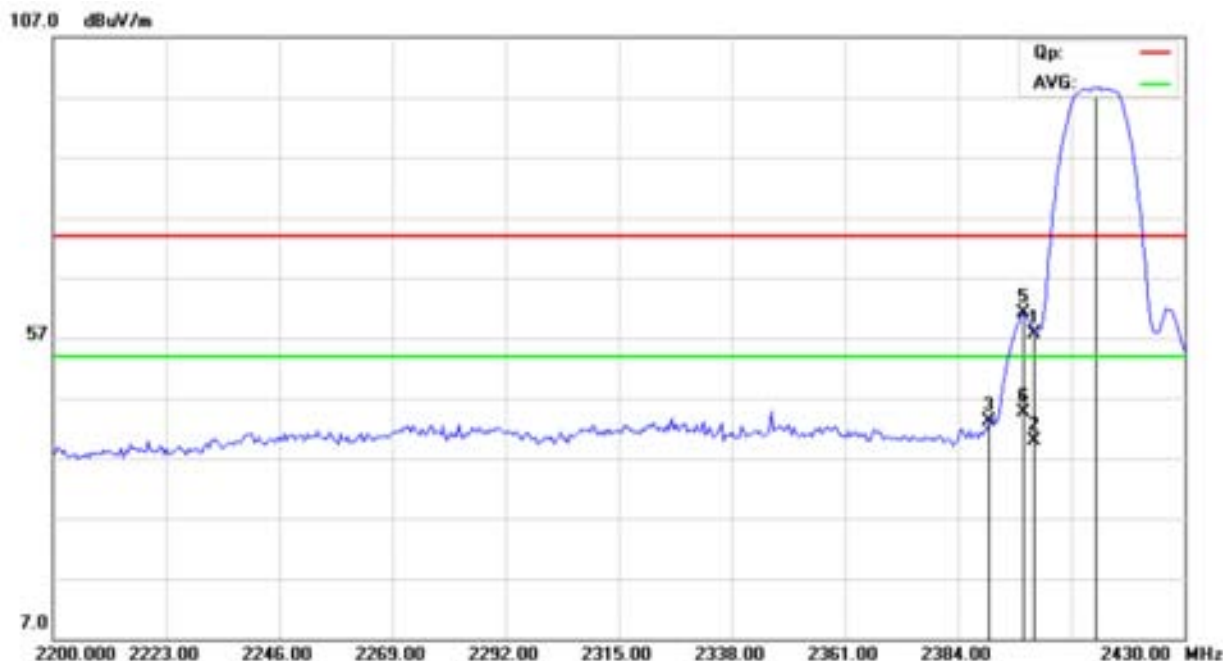
For 802.11b mode

CH01 at 11Mbps

10.4 Restricted band Measurement

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dB $\mu$ V/m)	57.54	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	39.82		54(dB $\mu$ V/m)
2397	PK (dB $\mu$ V/m)	61.18	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	44.51		54(dB $\mu$ V/m)
2390	PK (dB $\mu$ V/m)	43.10	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

Test Figure: Vertical



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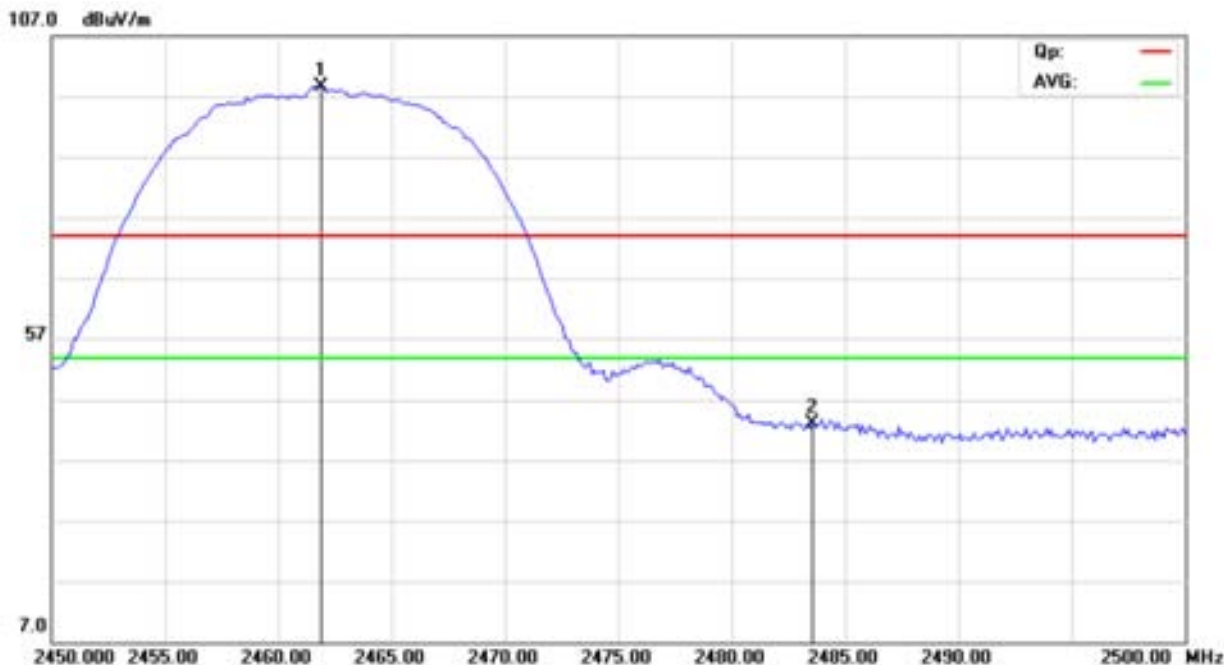
For 802.11b mode

CH11 at 11Mbps

10.4 Restricted band Measurement

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dBμV/m)	43.06	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Test Figure: Vertical



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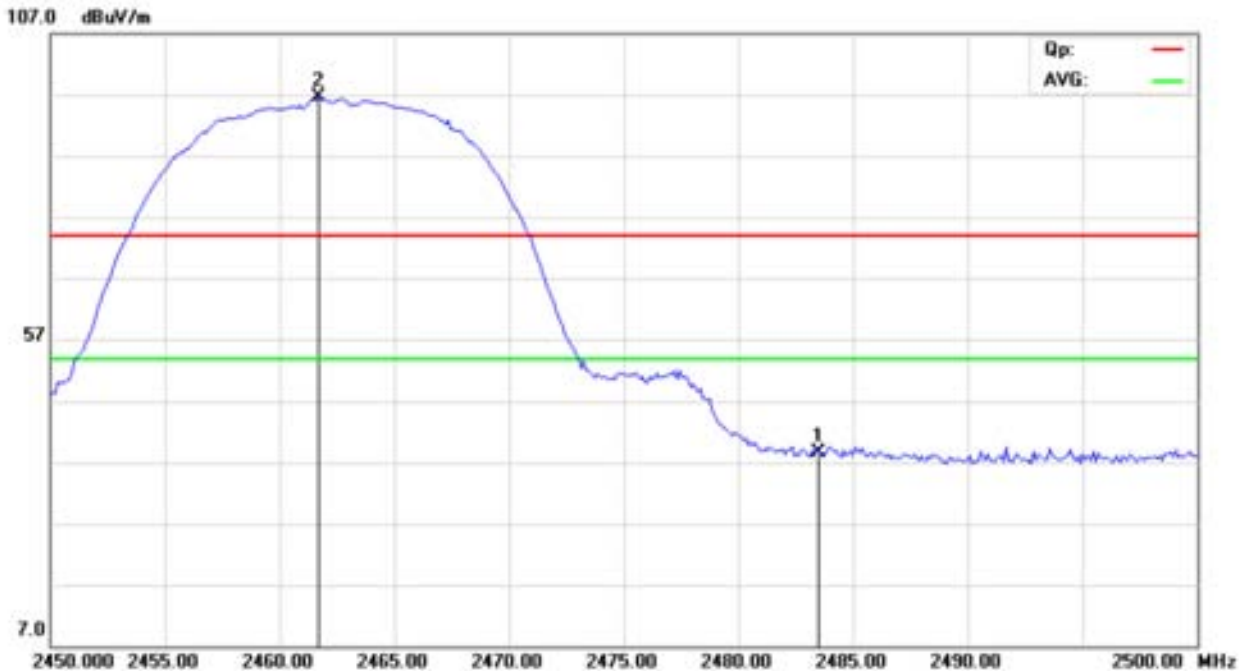
For 802.11b mode

CH11 at 11Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dB $\mu$ V/m)	38.57	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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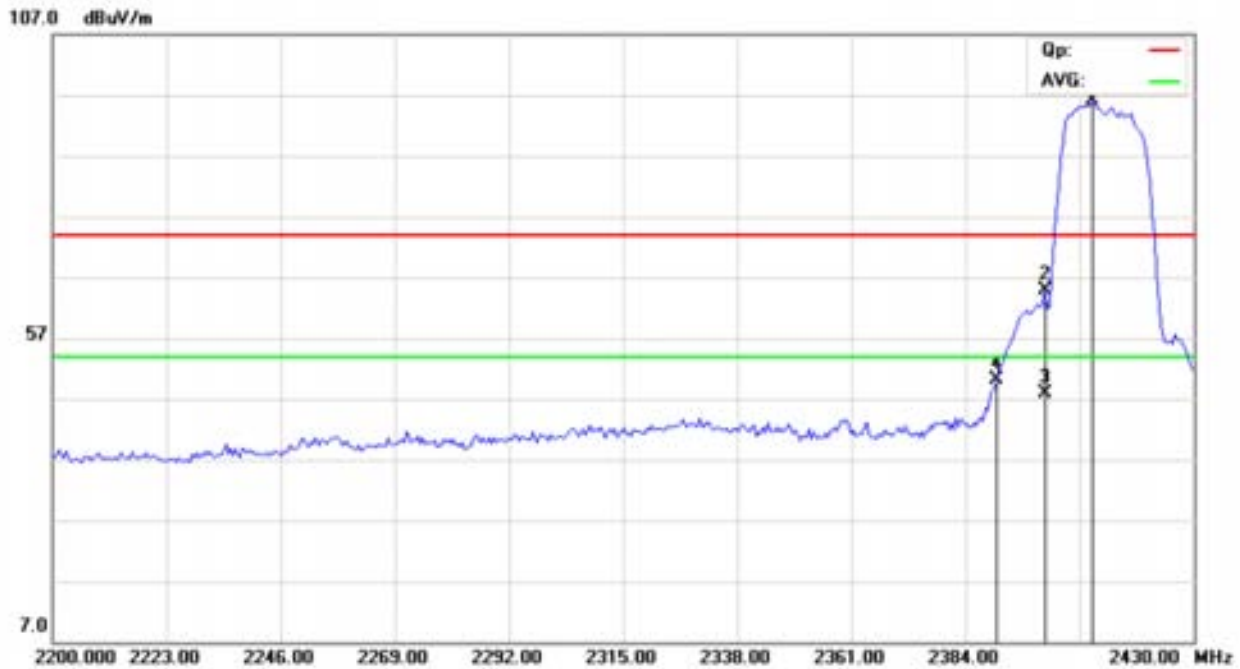
For 802.11g mode

CH01 at 54Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2390.000	PK (dB $\mu$ V/m)	50.18	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
2400.000	PK (dB $\mu$ V/m)	64.83	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	47.92		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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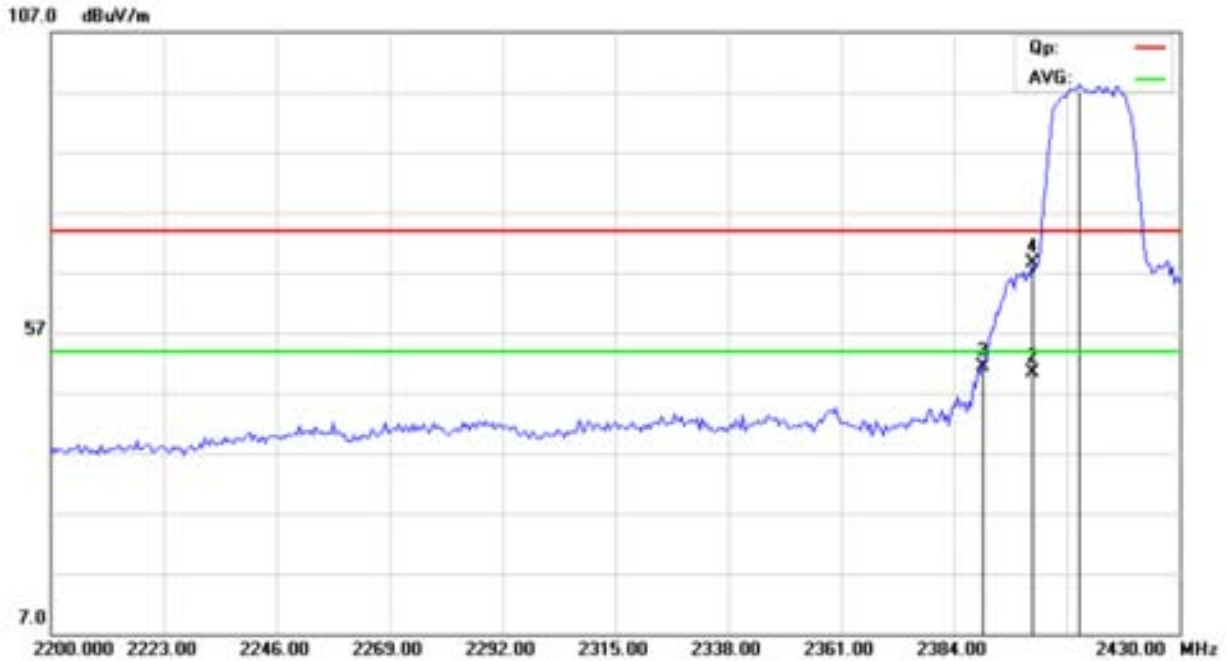
For 802.11g mode

CH01 at 54Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2390.000	PK (dB $\mu$ V/m)	51.36	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
2400.000	PK (dB $\mu$ V/m)	68.70	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	50.45		54(dB $\mu$ V/m)

**Test Figure: Vertical**



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For 802.11g mode

CH11 at 54Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dB $\mu$ V/m)	48.06	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure: Vertical**



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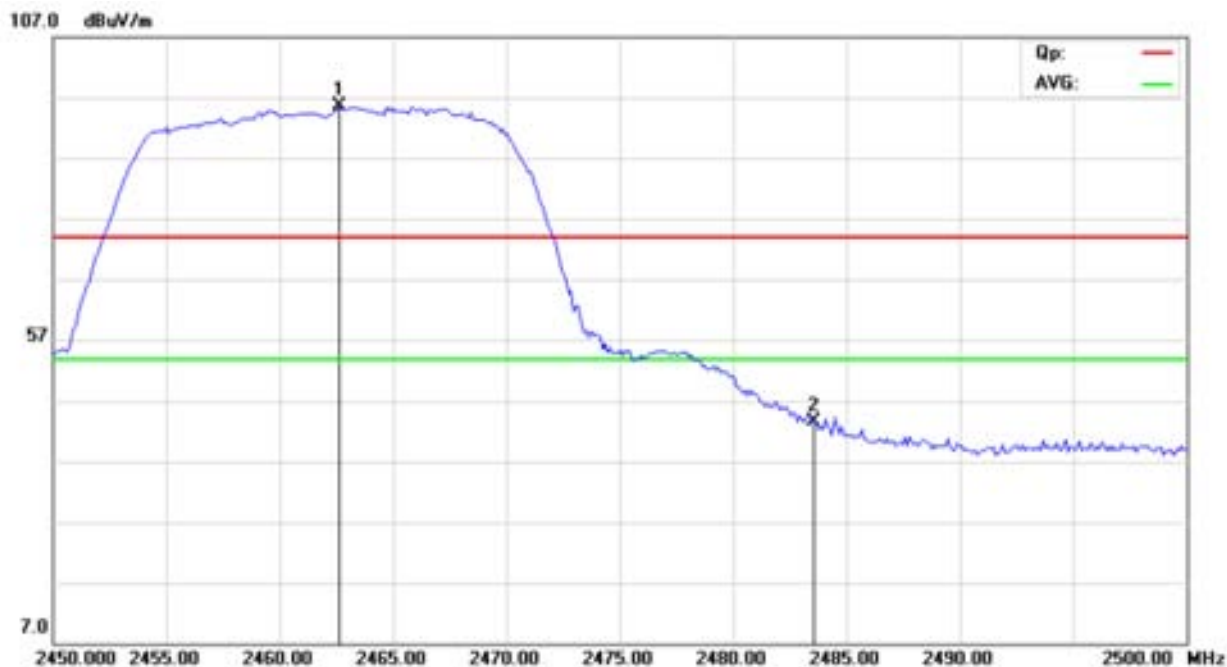
For 802.11g mode

CH11 at 54Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dB $\mu$ V/m)	43.75	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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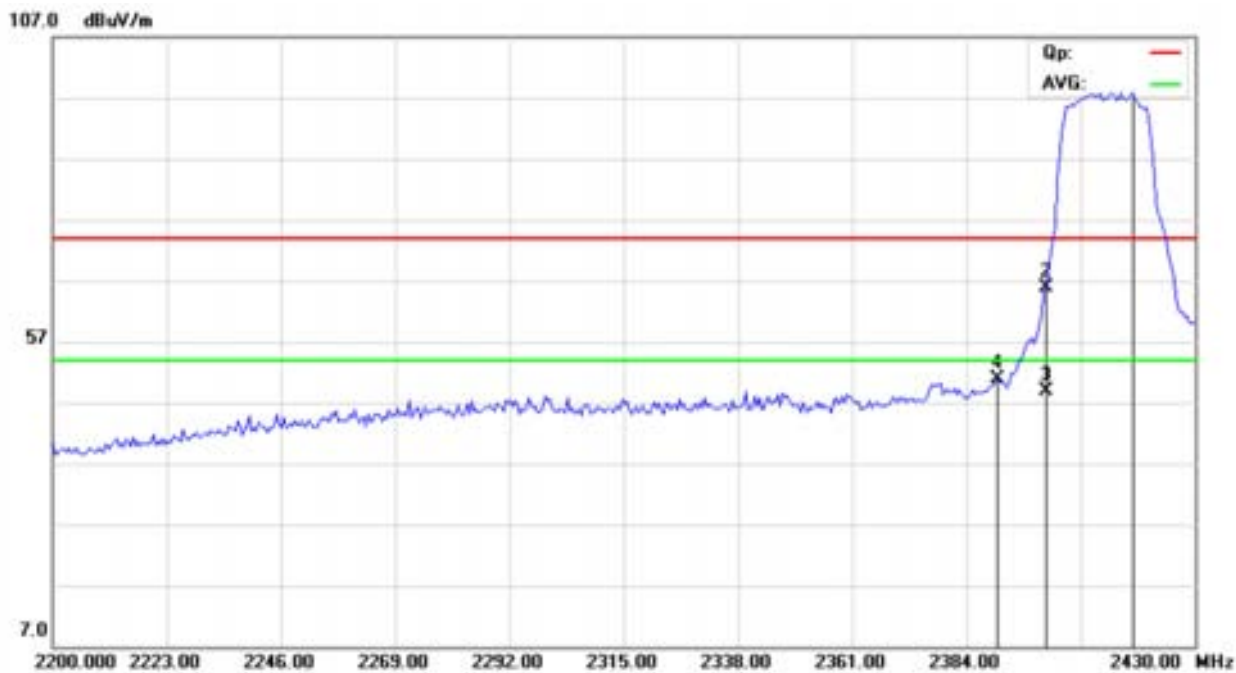
For 802.11n mode

CH01 at 11n HT20 65Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2390.000	PK (dB $\mu$ V/m)	50.79	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
2400.000	PK (dB $\mu$ V/m)	65.89	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	48.85		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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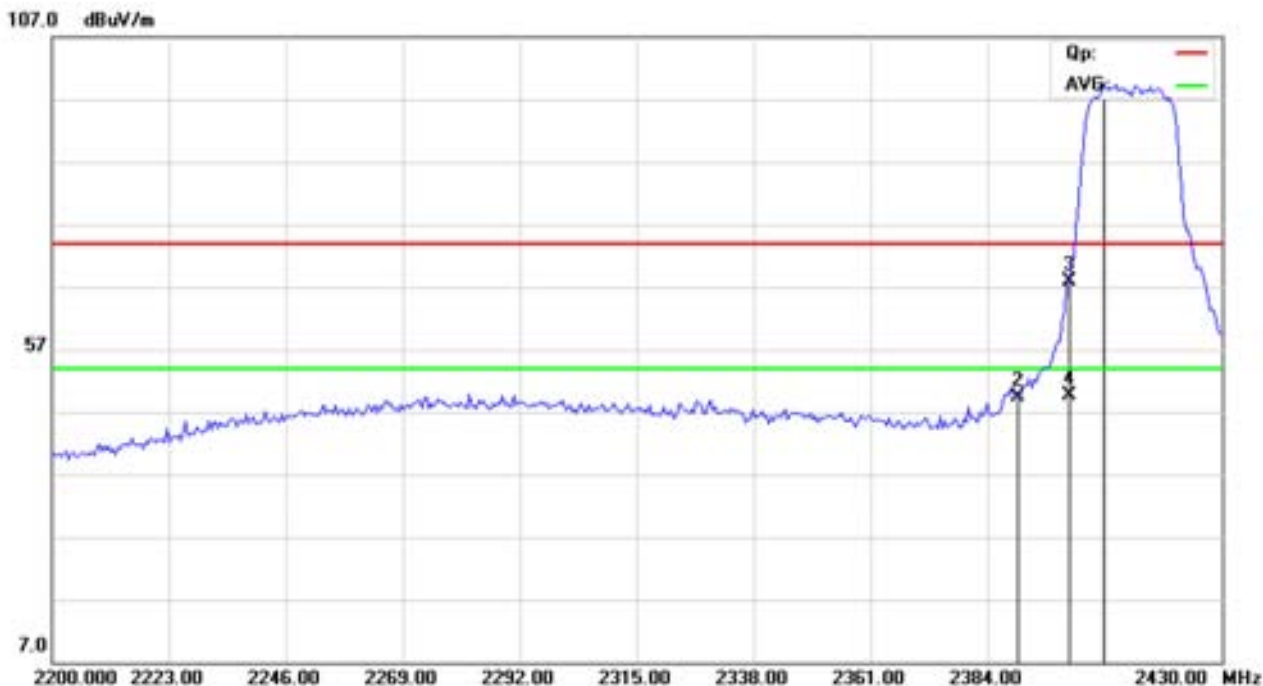
For 802.11n mode

CH01 at 11n HT20 65Mbps

10.4 Restricted band Measurement

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2390.000	PK (dBμV/m)	49.38	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
2400.000	PK (dBμV/m)	67.85	Limit	74(dBμV/m)
	AV (dBμV/m)	49.56		54(dBμV/m)

Test Figure: Vertical



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For 802.11n mode

CH11 at 11n HT20 65Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dB $\mu$ V/m)	50.49	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure: Vertical**



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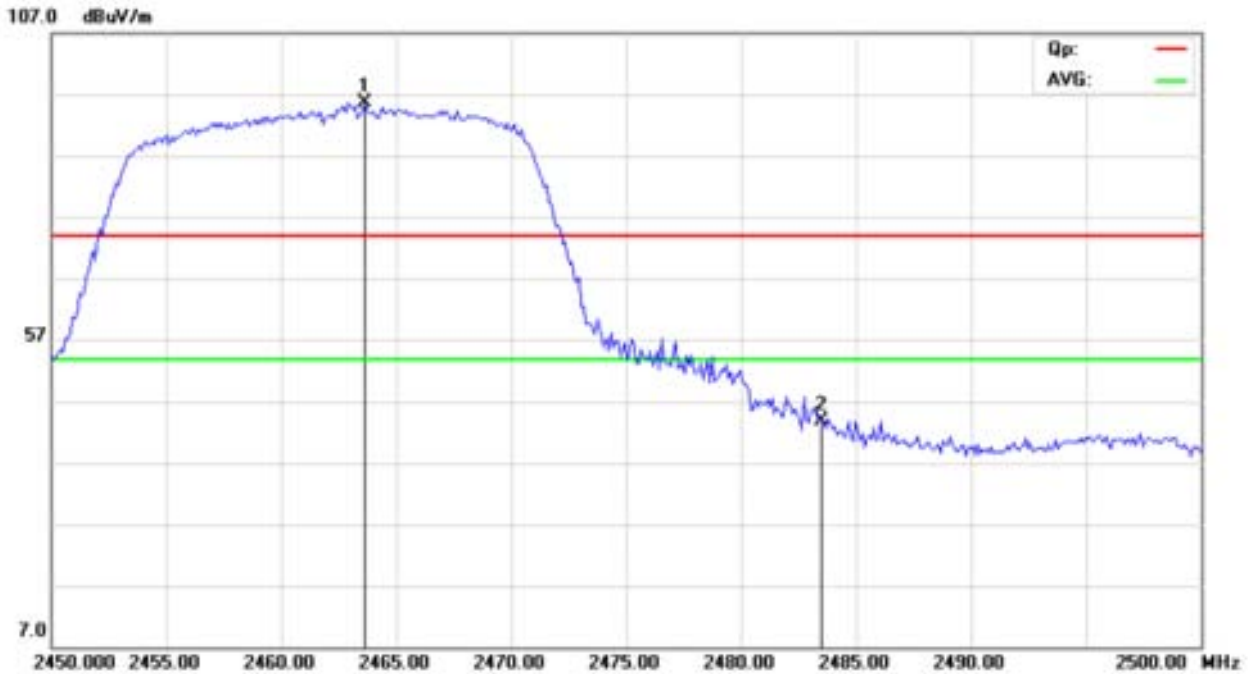
For 802.11n mode

CH11 at 11n HT20 65Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dB $\mu$ V/m)	43.78	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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For 802.11n mode

CH01 at 11n HT40 65Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2390.000	PK (dB $\mu$ V/m)	67.55	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	49.89		54(dB $\mu$ V/m)
2400.000	PK (dB $\mu$ V/m)	71.04	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	51.45		54(dB $\mu$ V/m)

**Test Figure: Horizontal**



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For 802.11n mode

CH01 at 11n HT40 65Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2390.000	PK (dB $\mu$ V/m)	62.37	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	45.54		54(dB $\mu$ V/m)
2400.000	PK (dB $\mu$ V/m)	67.07	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	48.92		54(dB $\mu$ V/m)

**Test Figure: Vertical**



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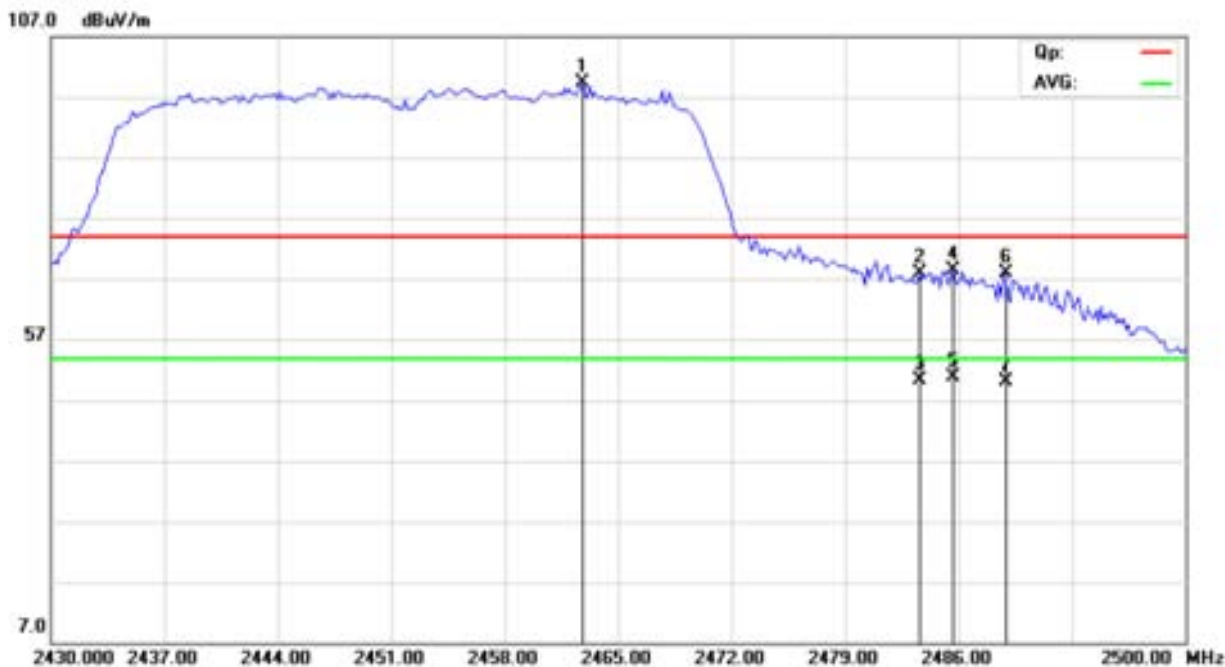
For 802.11n mode

CH11 at 11n HT40 65Mbps

10.4 Restricted band Measurement

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dB $\mu$ V/m)	67.87	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	50.49		54(dB $\mu$ V/m)
2485.691	PK (dB $\mu$ V/m)	68.36	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	50.84		54(dB $\mu$ V/m)
2488.918	PK (dB $\mu$ V/m)	67.89	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	50.21		54(dB $\mu$ V/m)

Test Figure: Vertical



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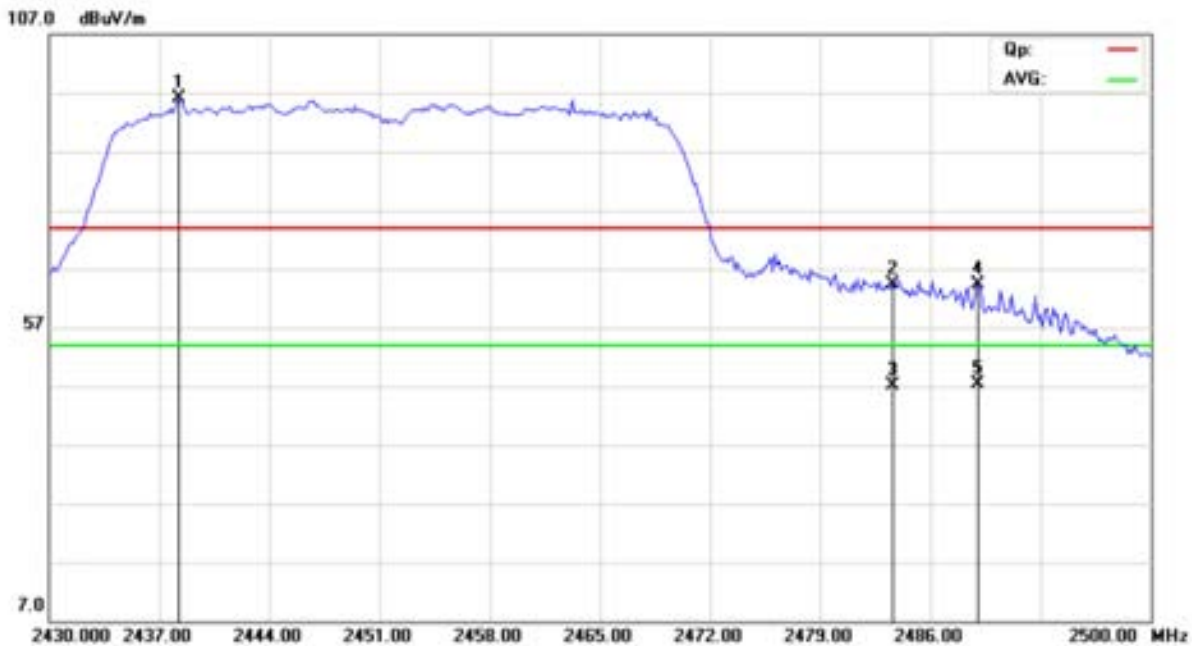
For 802.11n mode

CH11 at 11n HT40 65Mbps

**10.4 Restricted band Measurement**

Product:	WIFI Router/AP		Model:	BL-WA01
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humid Pity	56% RH
Test Result:	Pass		Detector	PK
2483.500	PK (dBμV/m)	64.30	Limit	74(dBμV/m)
	AV (dBμV/m)	47.13		54(dBμV/m)
2489.058	PK (dBμV/m)	64.50	Limit	74(dBμV/m)
	AV (dBμV/m)	47.41		54(dBμV/m)

**Test Figure: Horizontal**



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## **11.0 Antenna Requirement**

### **11.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 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 FCC 47 CFR Section 15.247 (b), if transmitter 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 6 dBi.

### **11.2 Antenna Connected construction**

Ceramic antenna used. The maximum Gain of the antennas is 2.5dBi.

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## 12.0 Maximum Permissible Exposure

### Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

#### (a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

#### (b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Times   E   <sup>2</sup> ,   H   <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; \*Plane-wave equivalent power density

### MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = E^2 / 377$$

**E** = Electric Field (V/m)

**P** = Peak RF output Power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

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**Calculated Result and Limit**

802.11b Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.778	15.23	33.343	0.01	1	Compiles

802.11g Mode

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.778	15.86	38.548	0.01	1	Compiles

For 802.11n HT20, we get the worse case

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.778	13.52	22.491	0.01	1	Compiles

For 802.11n HT40

Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
1.778	13.82	24.099	0.01	1	Compiles

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### 13.0 FCC ID Label

#### FCC ID: X2NBL-WAXX

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



FCC ID Label Location

The report refers only to the sample tested and does not apply to the bulk.

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#### 14.0 Photo of testing

##### Conducted Emissions



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### Radiated Emissions



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Photo for the EUT

Outside view



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Outside view



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Outside view



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Outside view



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Inside view



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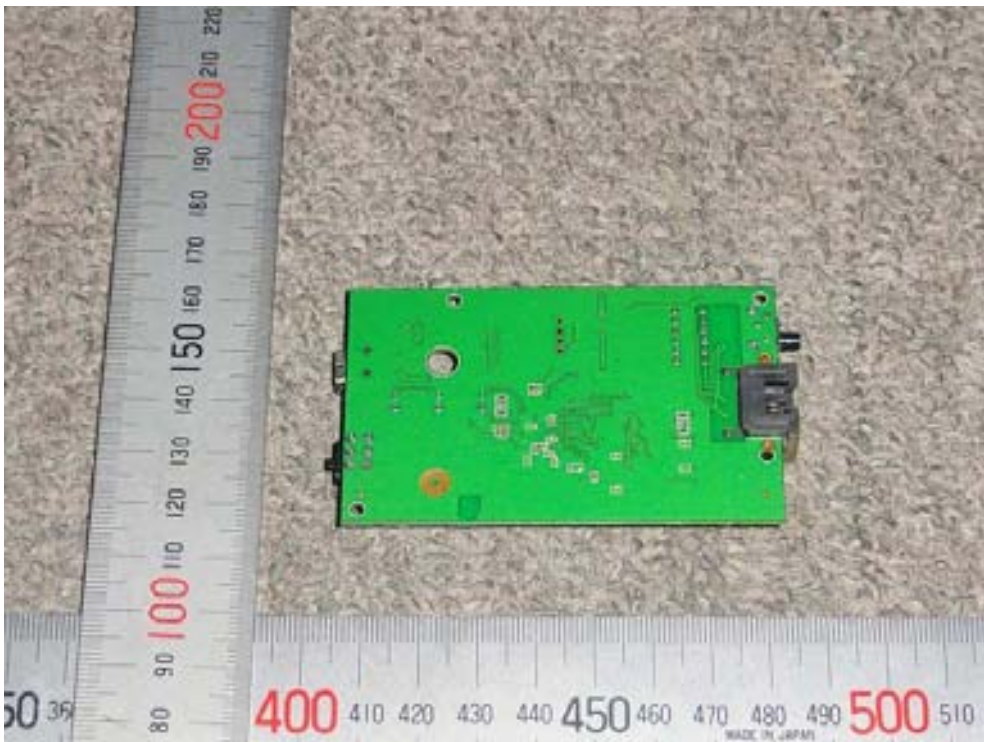
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Inside view



Antenna



### End of the report

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