CONFORMANCE TEST REPORT
FOR
FCC 47 CFR, Part 15 Subpart C

Report No.: 08-04-MAS-190-01

Client:	CC & C Technologies, Inc.
Product:	WLAN 11n USB Client Adapter
Model:	WL-6200C
FCC ID:	PANWL6200C
Manufacturer/supplier:	CC & C Technologies, Inc.

Date test item received:	2008/04/25
Date test campaign completed:	2008/05/12
Date of issue:	2008/05/19

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Total number of pages of this test report: 101 pages

Total number of pages of photos: External photos 2 pages

Internal photos 4 pages

Setup photos 2 pages

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Manufacturer	: CC & C Technologies, Inc.
Address	: 8F,No.150,Jian Yi Rd.,Chung Ho City, Taipei County, Taiwan, R.O.C.
EUT	: WLAN 11n USB Client Adapter
Trade name	: CC & C
Model No.	: WL-6200C
Power Source	: 5Vdc (From USB Port)
Regulations applied	: FCC 47 CFR, Part 15 Subpart C (2007)

The testing described in this report has been carried out to the best of our knowledge and ability, and our responsibility is limited to the exercise of reasonable care. This certification is not intended to believe the sellers from their legal and/or contractual obligations.

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⑤ FCC Registration Number: 90588, 91094, 91095

NVLAP Lab Code 200133-0

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1 GENERAL INFORMATION

1.1 Product Description

a) Type of EUT : WLAN 11n USB Client Adapter

b) Trade Name : CC & C

c) Model No. : WL-6200C

d) FCC ID : PANWL6200C

1.2 Characteristics of Device

The EUT is a 2.4 GHz WLAN 11n USB Client Adapter. It conforms to the IEEE 802.11b/g/n protocal and operates in the unlicensed ISM Band at 2.4 GHz.

RF chain	1T2R
Frequency Range	IEEE 802.11b/g, 802.11n HT20: 2412MHz~2462MHz IEEE 802.11n HT40: 2422MHz~2452MHz
Channel Spacing	5MHz
Channel Number	IEEE 802.11b/g, 802.11n HT20:11 Channels IEEE 802.11n HT40: 7 Channels
Transmit Data Rate	IEEE 802.11b: 11, 5.5, 2, 1 Mbps IEEE 802.11g: 54, 48, 36, 24, 18, 12, 11, 9, 6 Mbps IEEE 802.11n HT20: MCS0~7 IEEE 802.11n HT40: MCS0~7
Type of Modulation	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20/40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Emission Designators	IEEE 802.11b: 14M7G1D IEEE 802.11g: 16M4W7D IEEE 802.11n HT20: 16M5W7D IEEE 802.11n HT40: 36M3W7D

Two series samples used for testing- only “WPS Button” different. The worse case is the sample with the button for final testing.

1.3 Test Methodology

All testing were performed according to the procedures in ANSI C63.4 (2003) and FCC CFR 47 Part 2 and Part 15.

1.4 Test Facility

The semi-anechoic chamber and conducted measurement facility used to collect the radiated and conducted data are located inside the Building at No.8, Lane 29, Wen-ming Road, Lo-shan Tsun, Kweishan Hsiang, Taoyuan, Taiwan, R.O.C.

This site has been accreditation as a FCC filing site.

2 PROVISIONS APPLICABLE

2.1 Definition

Unintentional radiator:
A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:
A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :
A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business of industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

Intentional radiator:
A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Requirement for Compliance

(1) Conducted Emission Requirement

For unintentional device, according to §15.107(a) Line Conducted Emission Limits is as following:

Frequency MHz	Quasi Peak dB μV	Average dB μV
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

*Decreases with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limits is same as above table.

(2) Radiated Emission Requirement

For unintentional device, according to §15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency MHz	Distance Meters	Radiated dB μV/m	Radiated μV/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
above 960	3	54.0	500

For intentional device, according to §15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

(3) Antenna Requirement

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.

(4) Bandwidth Requirement

According to 15.247 (a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

(5) Output Power Requirement

For systems using digital modulation , according to 15.247(b), the maximum peak output power of the intentional radiator shall not exceed 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(6) Spurious Emissions Measurement

According to 15.247 (c) , in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

(7) Power Density Requirement

According to 15.247 (d) , for digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission..

2.3 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.25
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

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.

2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio / TV technician for help.

3. SYSTEM TEST CONFIGURATION

3.1 Devices for Tested System

Device	Manufacture	Model No.	Cable Description
WLAN 11n USB Client Adapter*	CC & C Technologies, Inc.	WL-6200C	----
Notebook PC	HP	nx6320	3.1m Unshielded Power Line/Adapter

Note:1.Remark "*" means equipment under test.

2.

Test Software:	REALTEK RTL8192USB WLAN NIC Massproduction kit		
Power setting:	802.11b	Low	10
		Mid	10
		High	10
Power setting:	802.11g	Low	12
		Mid	12
		High	12
Power setting:	802.11b/g/n HT20 and 802.11b/g/n HT40	Low	11
		Mid	11
		High	11

3.2 Dscription of Test modes

3.2.1 IEEE 802.11b, 802.11g, 802.11n HT20 mode:

There are three channels have been tested as following:

Channel	Frequency (MHz)
Low = 1	2412
Middle = 6	2437
High = 11	2462

IEEE 802.11b mode: 1 Mbps data rateis the worse case for full testing.

IEEE 802.11g mode: 6 Mbps data rateis the worse case for full testing.

IEEE 802.11n HT20 mode: MCS0~7 the worse case for full testing.

3.2.2 IEEE 802.11n HT40 mode:

There are three channels have been tested as following:

Channel	Frequency (MHz)
Low = 3	2422
Middle = 6	2437
High = 9	2452

IEEE 802.11n HT40 mode: MCS0~7 the worse case for full testing.

4 CONDUCTED EMISSION MEASUREMENT

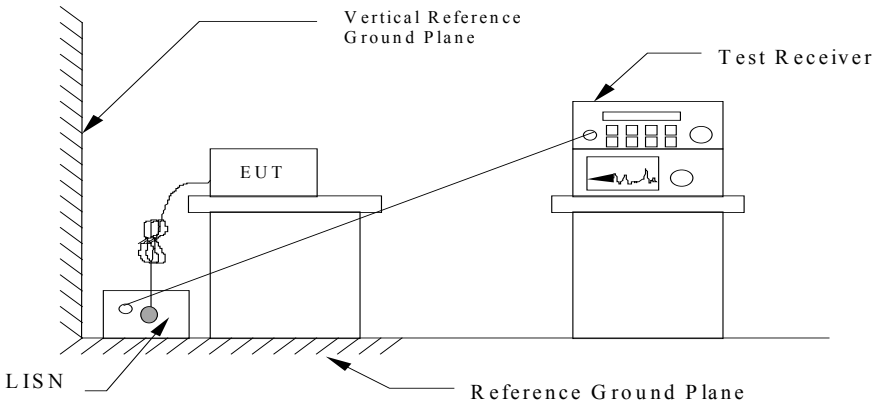
4.1 Standard Applicable

For unintentional and intentional device, Line Conducted Emission Limits are in accordance to §15.107(a) and §15.207(a) respectively. Both Limits are identical specification.

4.2 Measurement Procedure

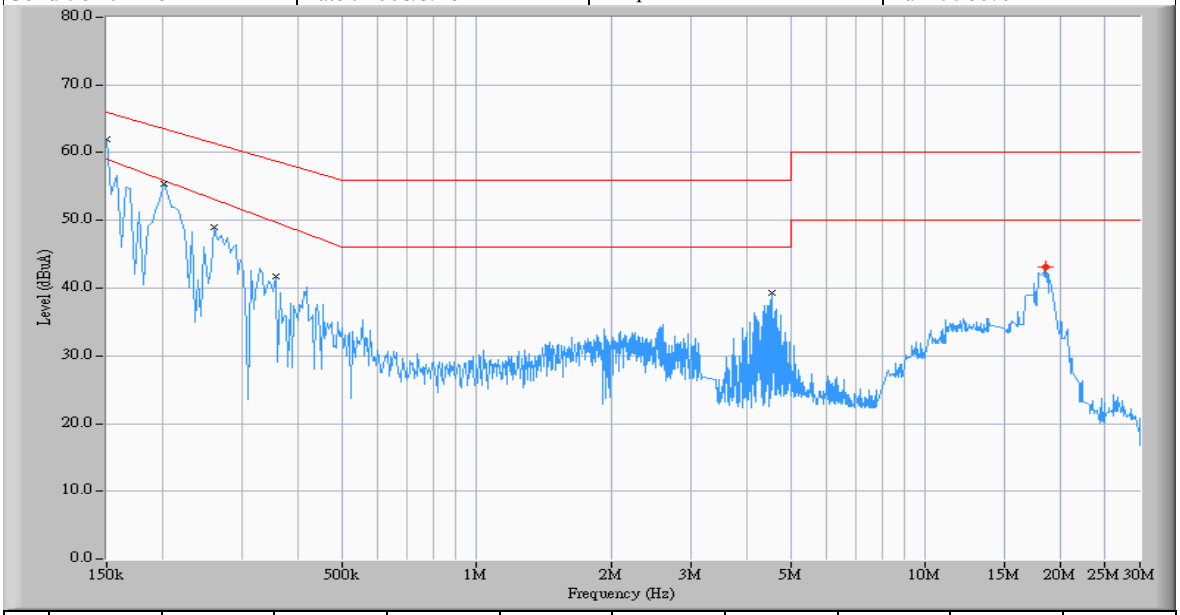
1. Setup the configuration per figure 1.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 1 : Conducted emissions measurement configuration



4.3 Conducted Emission Data

EUT : WLAN 11n Dongle	Model : WL-6200C	Status : Operation Mode	
Condition : Line 1	Date : 2008/5/15	Temp. : 23℃	Humi. : 60%

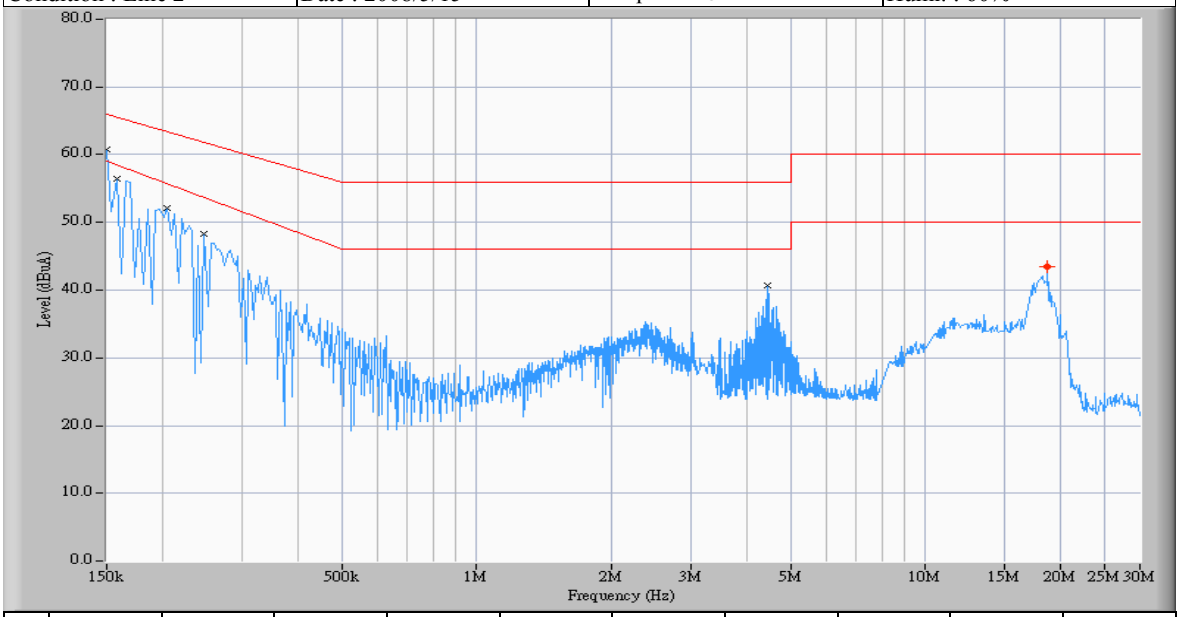


	Freq (MHz)	QP Level (dBuA)	AVG Level (dBuA)	Factor (dB)	QP Result (dBuA)	AVG Result (dBuA)	QP Limit (dBuA)	AVG Limit (dBuA)	QP Margin (dB)	AVG Margin (dB)
1	0.150	62.0	49.2	0.2	62.2	49.4	66.0	59.0	-3.8	-9.6
2	0.201	55.4	----	0.2	55.6	----	63.6	55.9	-8.0	----
3	0.259	48.9	----	0.2	49.1	----	61.5	53.1	-12.4	----
4	0.357	41.8	----	0.2	42.0	----	58.8	49.6	-16.8	----
5	4.533	39.4	----	0.2	39.6	----	56.0	46.0	-16.4	----
6	18.490	43.0	----	0.5	43.5	----	60.0	50.0	-16.5	----

Note:

1. Place of measurement: EMC LAB. of the ETC.
2. "***" means the value was too low to be measured.
3. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
4. "#" means the noise was too low, so record the peak value.
5. The estimated measurement uncertainty of the result measurement is ±2.5dB.

EUT : WLAN 11n Dongle	Model : WL-6200C	Status : Operation Mode	
Condition : Line 2	Date : 2008/5/15	Temp. : 20℃	Humi. : 60%



	Freq (MHz)	QP Level (dBuA)	AVG Level (dBuA)	Factor (dB)	QP Result (dBuA)	AVG Result (dBuA)	QP Limit (dBuA)	AVG Limit (dBuA)	QP Margin (dB)	AVG Margin (dB)
1	0.150	60.7	48.7	0.2	60.9	48.9	66.0	59.0	-5.1	-10.1
2	0.158	56.4	----	0.2	56.6	----	65.6	58.5	-9.0	----
3	0.205	52.2	----	0.2	52.4	----	63.4	55.6	-11.0	----
4	0.248	48.4	----	0.2	48.6	----	61.8	53.6	-13.2	----
5	4.447	40.7	----	0.2	40.9	----	56.0	46.0	-15.1	----
6	18.654	43.5	----	0.5	44.0	----	60.0	50.0	-16.0	----

Note:

1. Place of measurement: EMC LAB. of the ETC.
2. "***" means the value was too low to be measured.
3. If the data table appeared symbol of "----" means the Q.P. value is under the limit of AVG. so, the AVG. value doesn't need to be measured.
4. "#" means the noise was too low, so record the peak value.
5. The estimated measurement uncertainty of the result measurement is ±2.5dB.

4.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

RESULT = READING + LISN FACTOR (Included Cable Loss)

4.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test.

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde and Schwarz	ESCS30	08/07/2008
LISN	EMCO	37100/2M	02/12/2009

5 ANTENNA REQUIREMENT

5.1 Standard Applicable

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 6 dBi.

5.2 Antenna Construction and Directional Gain

	Tx Antenna
Antenna type	PIFA
Antenna gain	1.80 dBi

6 EMISSION BANDWIDTH MEASUREMENT

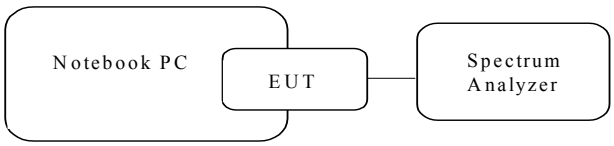
6.1 Standard Applicable

According to 15.247(a)(2), system using digital modulation techniques, the minimum 6dB bandwidth shall be at least 500 kHz.

6.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Figure 2: Emission bandwidth measurement configuration.



6.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	10/10/2008

6.4 Measurement Data

6.4.1 IEEE 802.11b

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	6dB Bandwidth (MHz)	FCC Limit (kHz)	Chart
1	2412	1	8.600	500	Page 19
6	2437	1	9.233	500	Page 20
11	2462	1	8.700	500	Page 21

Note:

1.Please refer to page 19 to page 21 for chart

2. The estimated measurement uncertainty of the result measurement is 8.25×10^{-7} *(1GHz ≦f≦18GHz)*

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH01-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

Test Request: (-16.3dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2413.000	-10.3
2	2407.000	-16.5
3	2415.600	-16.3

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	8.600	0.2

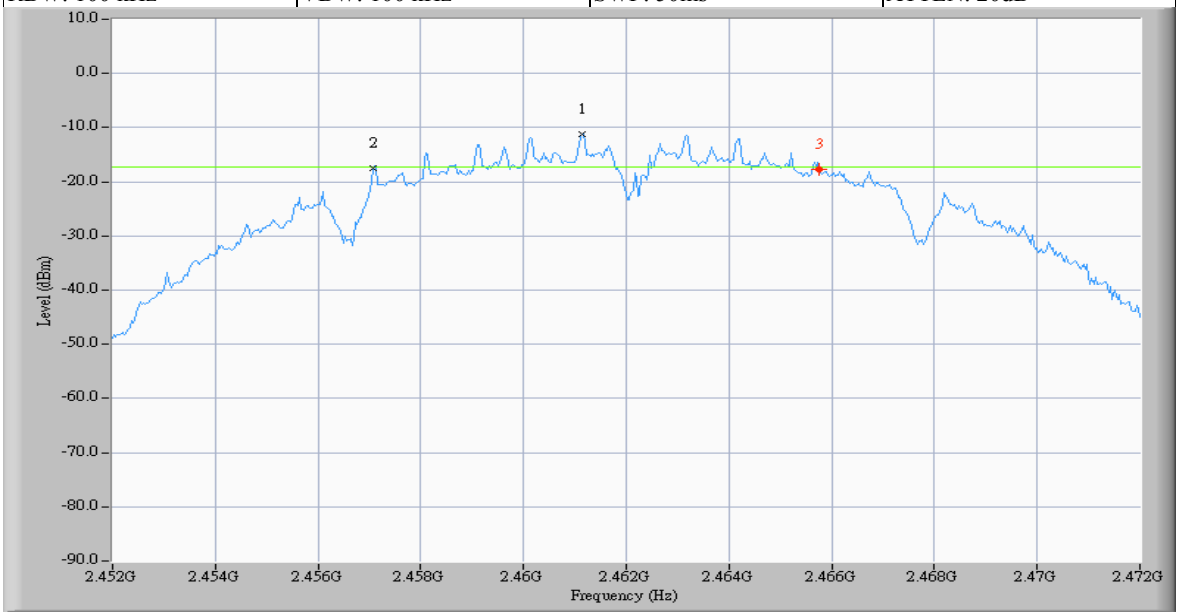
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH06-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

Test Request: (-17.7dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2439.133	-11.7
2	2432.000	-20.7
3	2441.233	-18.8

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	9.233	1.9

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH11-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB



Test Request: (-17.2dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2461.133	-11.2
2	2457.067	-17.5
3	2465.767	-17.7

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	8.700	-0.2

6.4.2 IEEE 802.11g

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

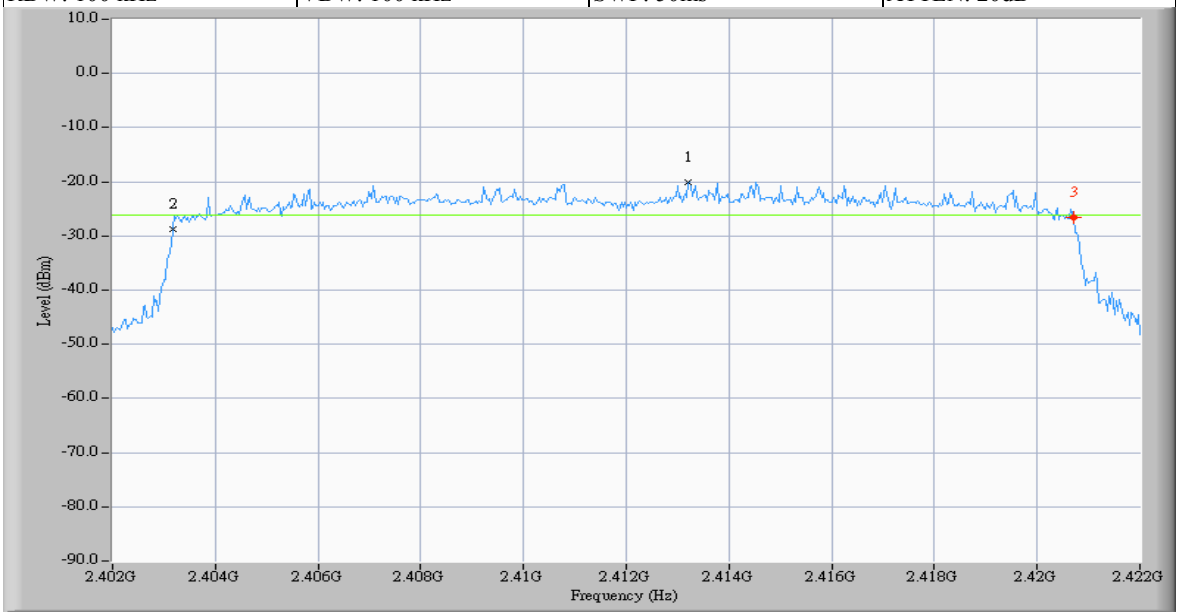
Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	6dB Bandwidth (MHz)	FCC Limit (kHz)	Chart
1	2412	6	17.533	500	Page 23
6	2437	6	16.466	500	Page 24
11	2462	6	16.500	500	Page 25

Note:

1.Please refer to page 23 to page 25 for chart

2. The estimated measurement uncertainty of the result measurement is 8.25×10^{-7} *(1GHz ≦f≦18GHz)*

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH01-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

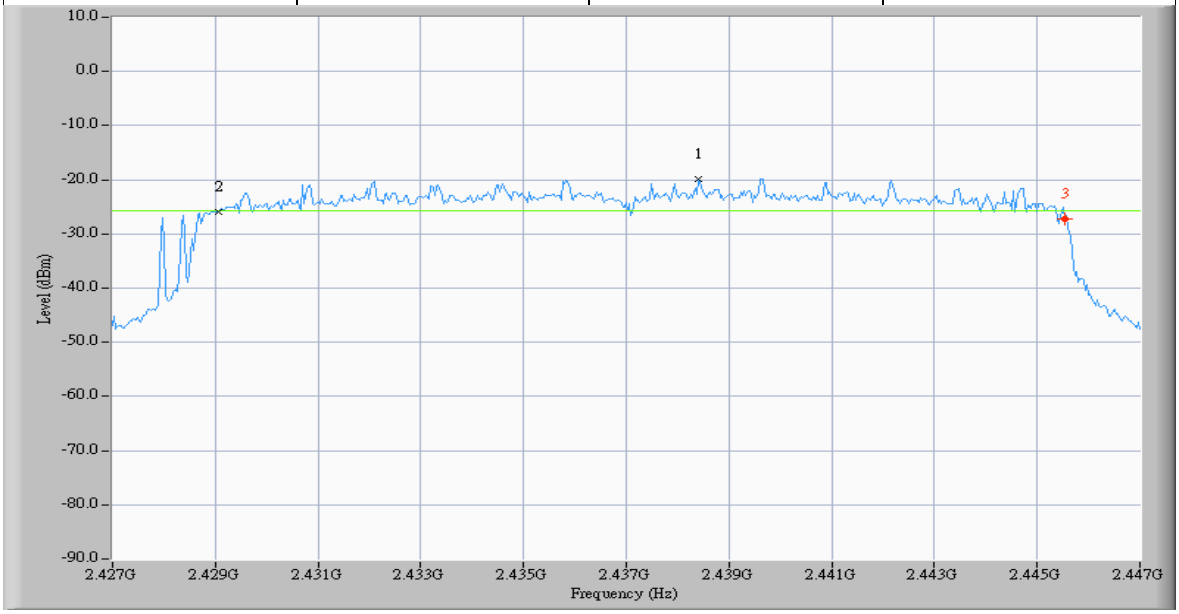


Test Request: (-26.2dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2413.200	-20.2
2	2403.167	-28.8
3	2420.700	-26.7

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	17.533	2.1

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH06-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

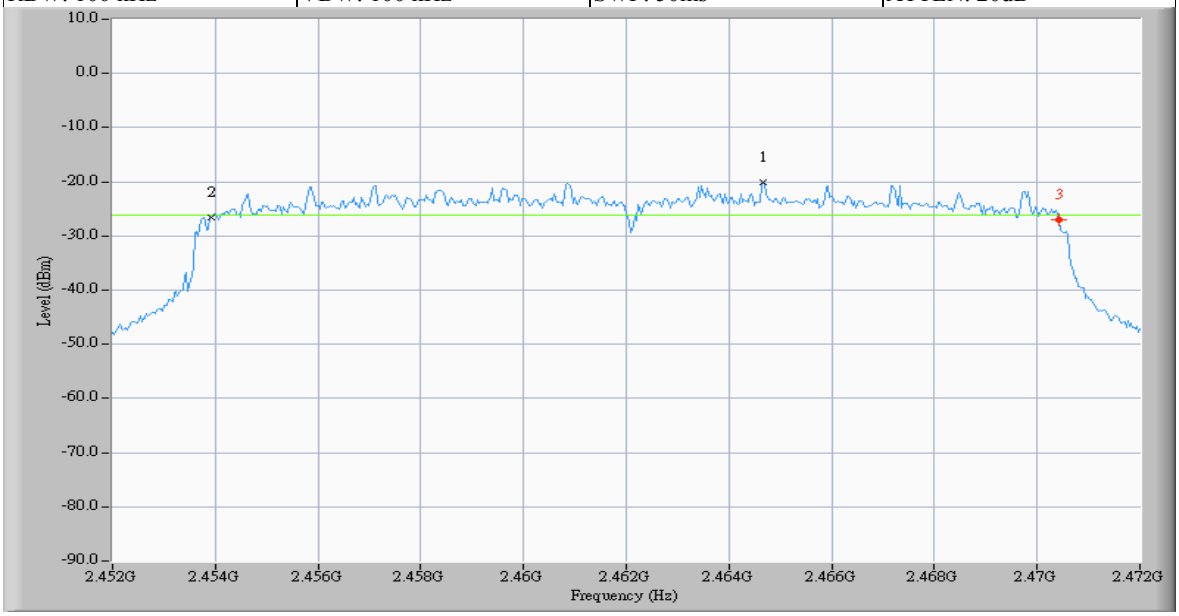


Test Request: (-25.8dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2438.400	-19.8
2	2429.067	-26.0
3	2445.533	-27.2

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	16.466	-1.2

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH11-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB



Test Request: (-26.2dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2464.667	-20.2
2	2453.933	-26.5
3	2470.433	-27.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	16.500	-0.5

6.4.3 IEEE 802.11n, HT20

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

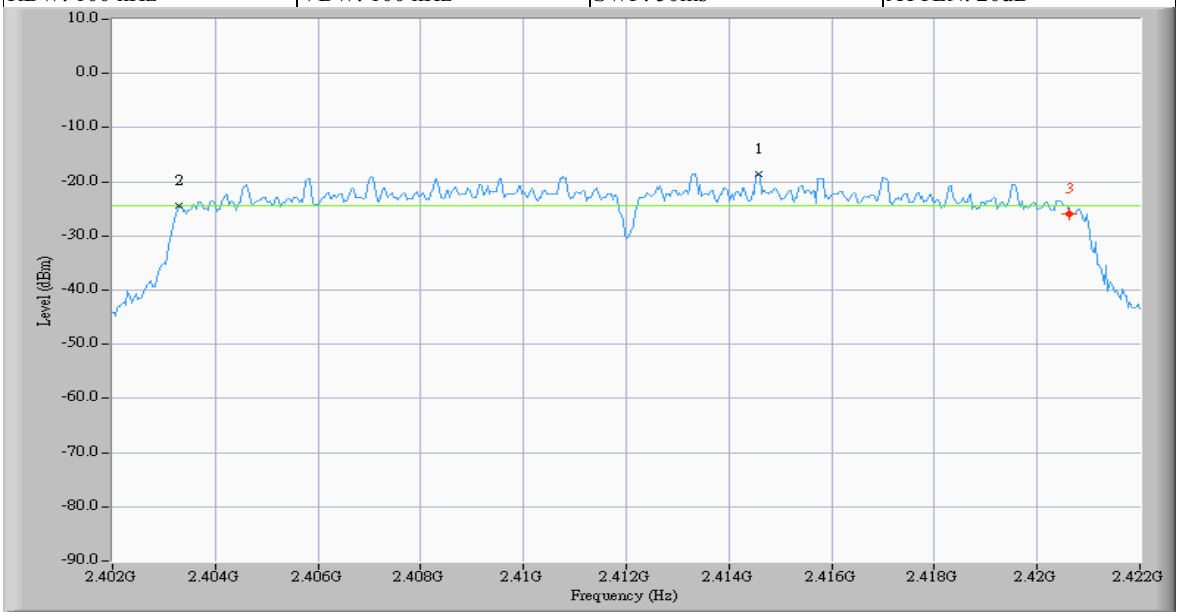
Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	6dB Bandwidth (MHz)	FCC Limit (kHz)	Chart
1	2412	6.5	17.333	500	Page 27
6	2437	6.5	17.200	500	Page 25
11	2462	6.5	17.500	500	Page 29

Note:

1.Please refer to page 27 to page 29 for chart

2. The estimated measurement uncertainty of the result measurement is 8.25×10^{-7} *(1GHz ≦f≦18GHz)*

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH01-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

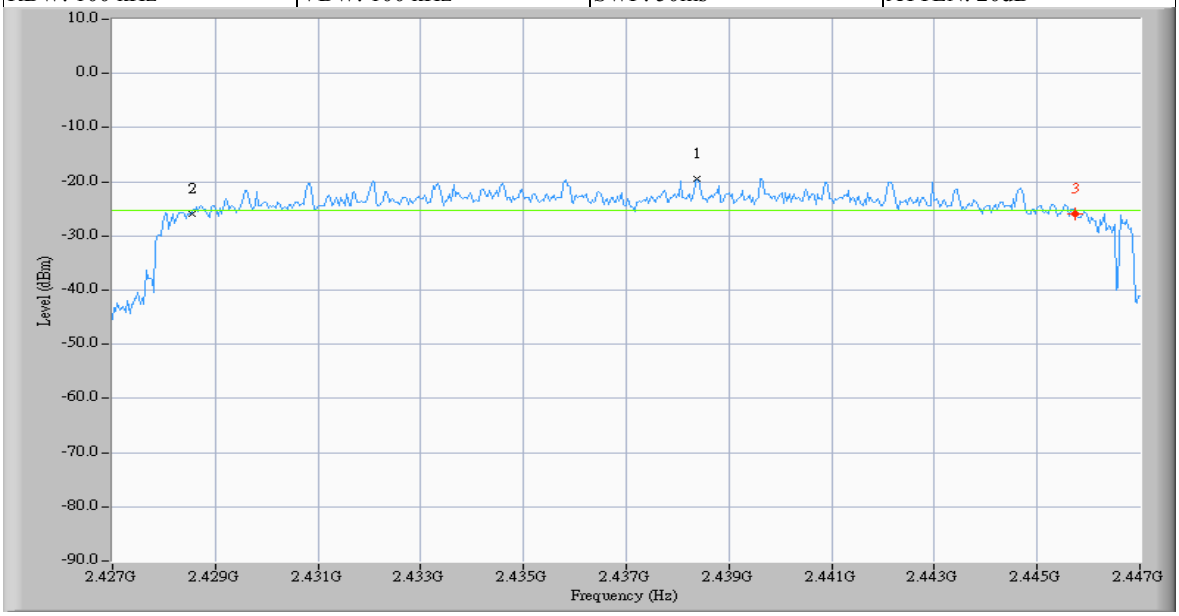


Test Request: (-24.5dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2414.567	-18.5
2	2403.300	-24.5
3	2420.633	-26.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	17.333	-1.5

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH06-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

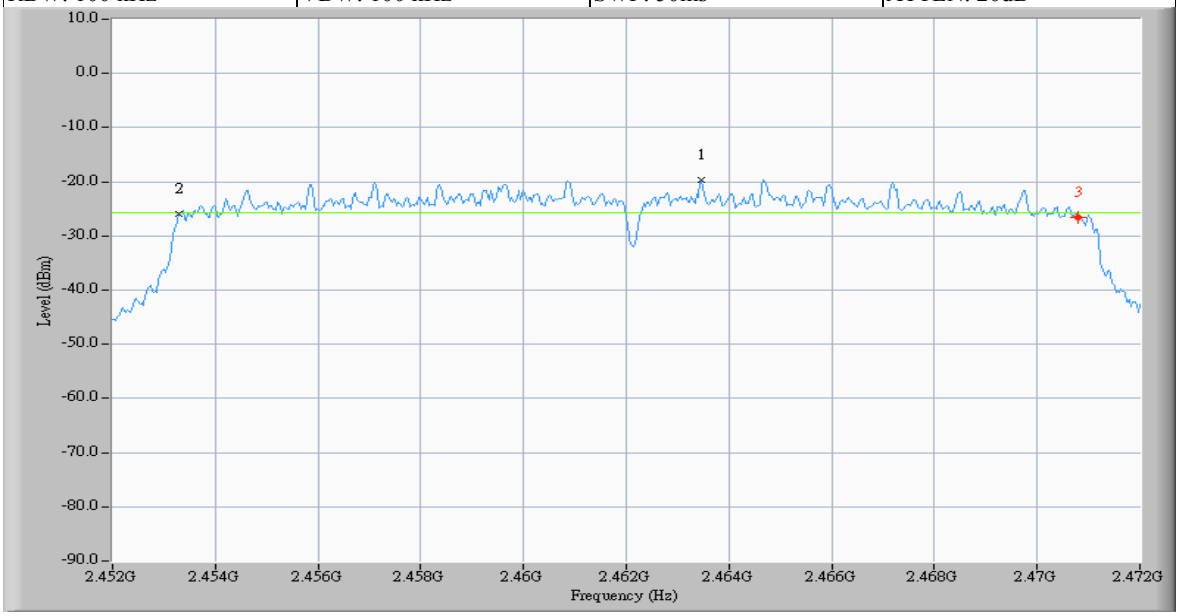


Test Request: (-25.3dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2438.367	-19.3
2	2428.533	-25.8
3	2445.733	-25.8

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	17.200	0.0

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH11-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB



Test Request: (-25.7dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2463.467	-19.7
2	2453.300	-26.0
3	2470.800	-26.5

		△Frequency (MHz)	△Level (dB)
1	Mkr 3 - Mkr 2	17.500	-0.5

6.4.4 IEEE 802.11n, HT40

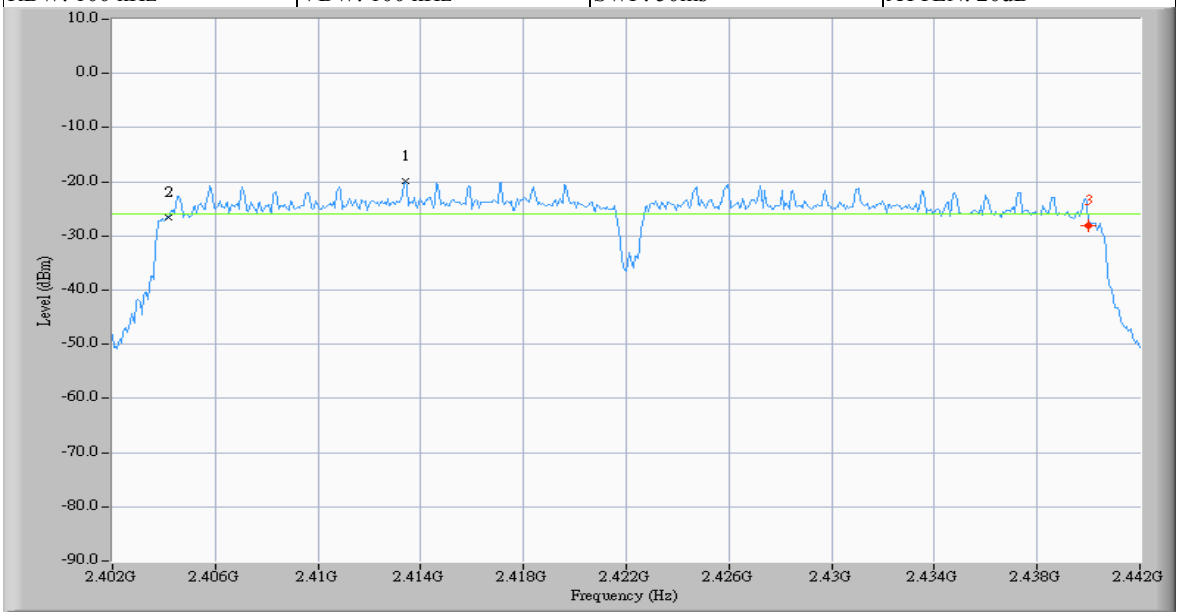
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	6dB Bandwidth (MHz)	FCC Limit (kHz)	Chart
3	2422	13.5	35.800	500	Page 31
6	2437	13.5	36.133	500	Page 32
9	2452	13.5	36.400	500	Page 33

Note:

1.Please refer to page 31 to page 33 for chart
2. The estimated measurement uncertainty of the result measurement is 8.25×10^{-7} *(1GHz ≦f≦18GHz)*

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH03-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

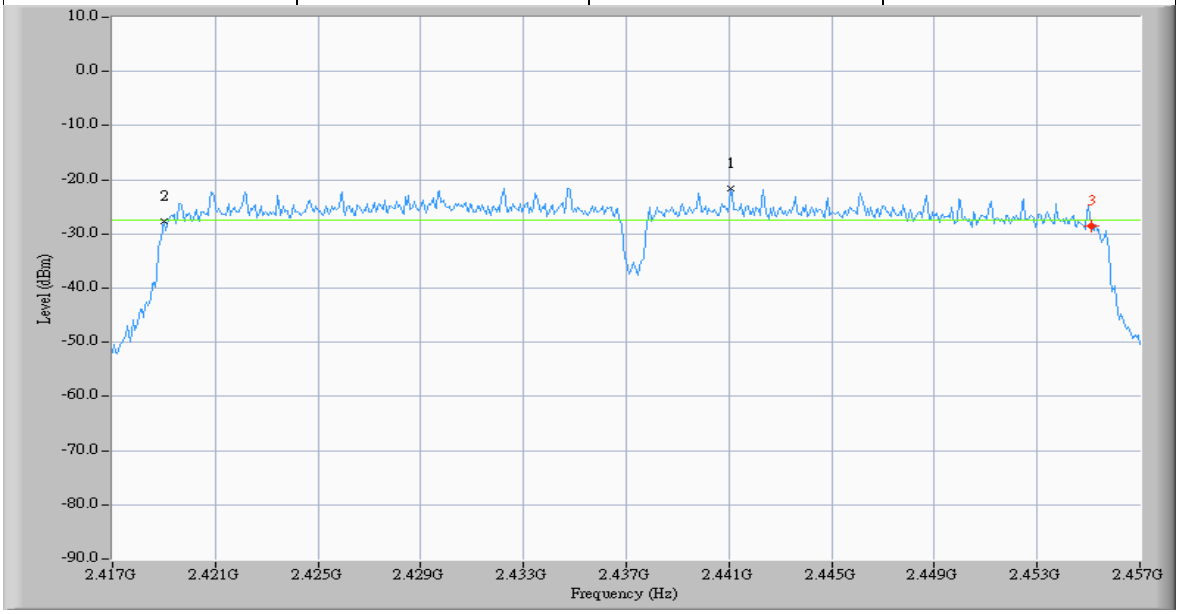


Test Request: (-25.83dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2413.400	-19.8
2	2404.200	-26.5
3	2440.000	-28.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 2 - Mkr 3	-35.800	1.5

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH06-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB

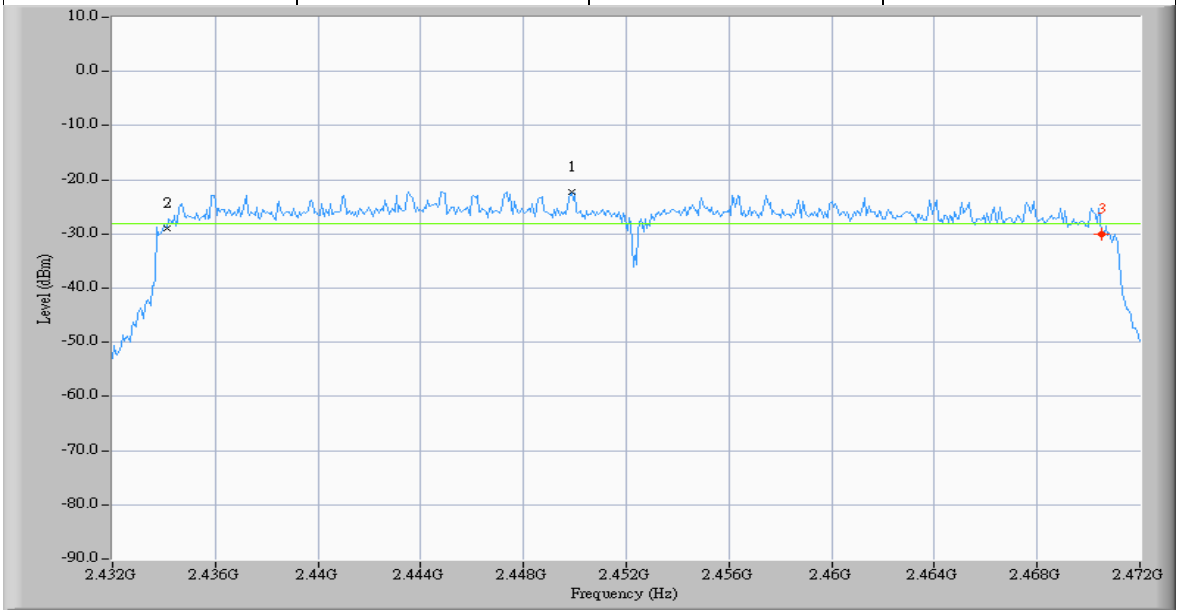


Test Request: (-27.50dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2441.067	-21.7
2	2419.000	-27.7
3	2455.133	-28.5

		△Frequency (MHz)	△Level (dB)
1	Mkr 2 - Mkr 3	-36.133	0.8

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH09-6dB-BW	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 100 kHz	SWP: 50ms	ATTEN: 20dB



Test Request: (-28.16dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2449.867	-22.3
2	2434.133	-29.0
3	2470.533	-30.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 2 - Mkr 3	-36.400	6.7

7 OUTPUT POWER MEASUREMENT

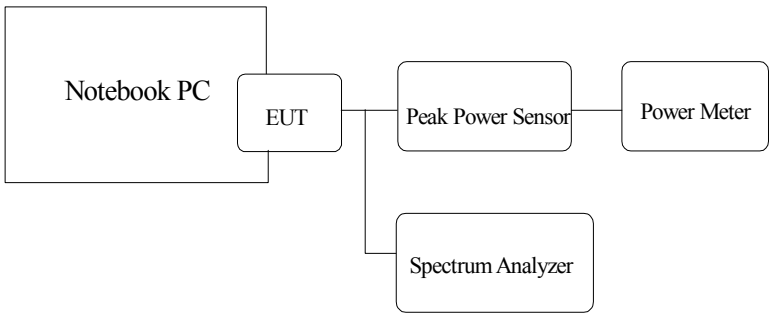
7.1 Standard Applicable

For direct sequence system, according to 15.247(b), the maximum peak output power of the transmitter shall not exceed 1 Watt. 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 6 dBi.

7.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 3. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range.
3. Measure the highest value appearing on power meter and record the level to calculate result data.
4. Repeat above procedures until all frequencies measured were complete.

Figure 3: Output power measurement configuration.



7.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	10/10/2008
Power Meter	Boonton	4532-0102	05/04/2009
Peak Power Sensor	Boonton	56518	05/04/2009
Spectrum Analyzer	Rohde & Schwarz	FSU46	11/24/2008

7.4 Measurement Data

7.4.1 IEEE 802.11b

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Maximum Peak Output Power

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Attenuator & Cable Loss (dB)	99% BW (MHz)	Maximum Peak Output Power (dBm)	Maximum Peak Output Power (mW)	FCC Limit (mW)	Chart
1	2412	1	20.0	14.68	14.14	25.942	1000	Page 36
6	2437	1	20.0	14.53	13.56	22.699	1000	Page 37
11	2462	1	20.0	14.38	13.75	23.714	1000	Page 38

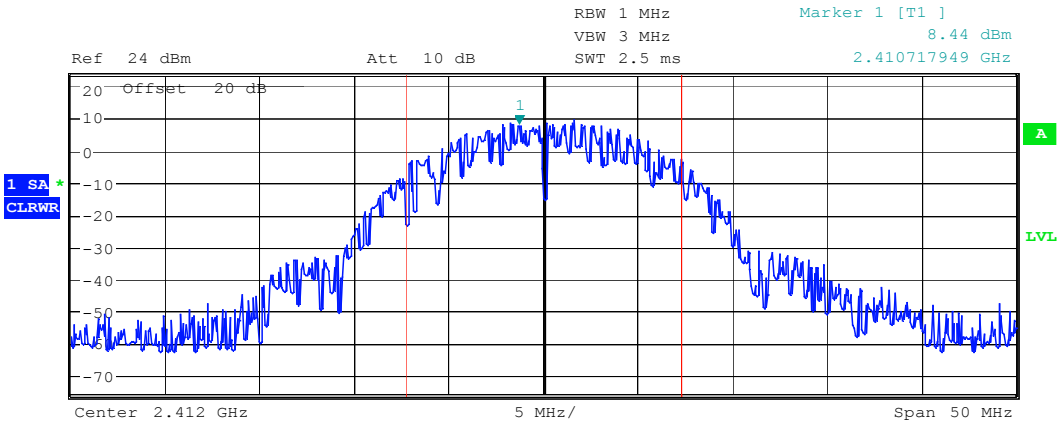
Average Output Power

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Reading (dBm)	Attenuator & Cable Loss (dB)	Average Output Power (dBm)
1	2412	1	2.94	10.0	12.94
6	2437	1	2.63	10.0	12.63
11	2462	1	2.71	10.0	12.71

Note:

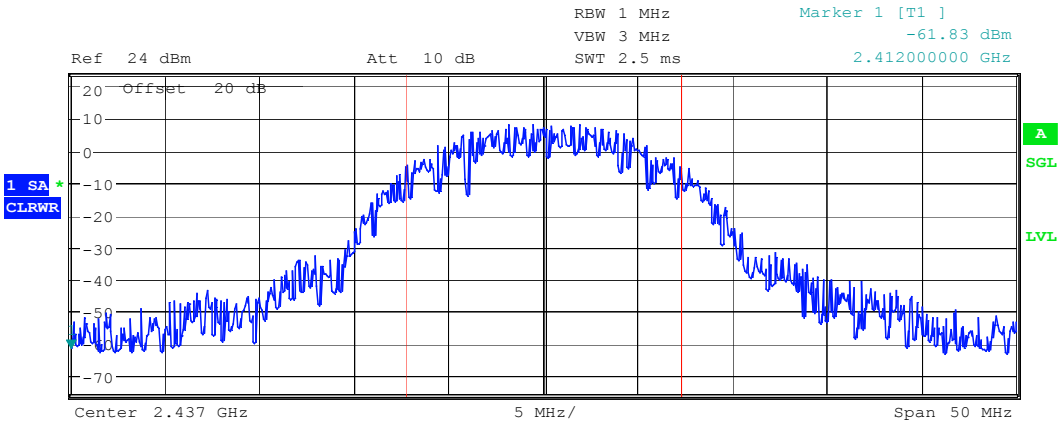
1.Please refer to page 36 to page 38 for chart

2.The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f≦18GHz)



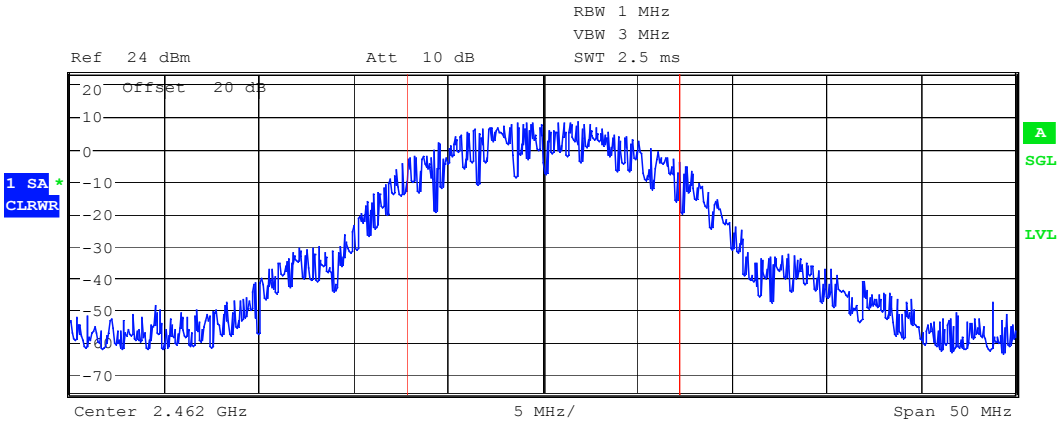
Tx Channel

Bandwidth	14.68 MHz	Power	14.14 dBm



Tx Channel

Bandwidth	14.53 MHz	Power	13.56 dBm


RBW 1 MHz
VBW 3 MHz
Ref 24 dBm
Att 10 dB
SWT 2.5 ms
Offset 20 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
1 SA
CLRWR
A
SGL
LVL
Center 2.462 GHz
5 MHz/
Span 50 MHz
Tx Channel
Bandwidth 14.38 MHz
Power 13.75 dBm

7.4.2 IEEE 802.11g

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Maximum Peak Output Power

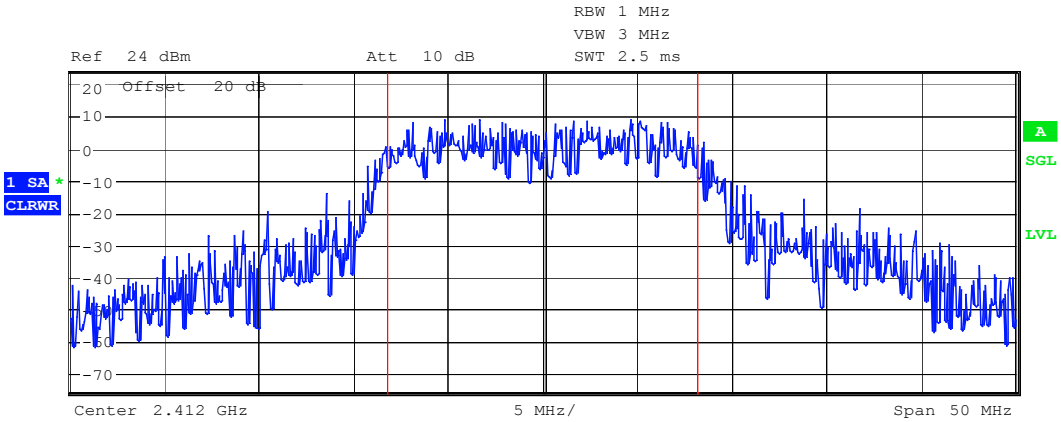
Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Attenuator & Cable Loss (dB)	99% BW (MHz)	Maximum Peak Output Power (dBm)	Maximum Peak Output Power (mW)	FCC Limit (mW)	Chart
1	2412	6	20.0	16.37	14.68	29.376	1000	Page 40
6	2437	6	20.0	16.21	14.51	28.249	1000	Page 41
11	2462	6	20.0	16.30	13.52	22.491	1000	Page 42

Average Output Power

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Reading (dBm)	Attenuator & Cable Loss (dB)	Average Output Power (dBm)
1	2412	6	2.87	10.0	12.87
6	2437	6	2.82	10.0	12.82
11	2462	6	2.75	10.0	12.75

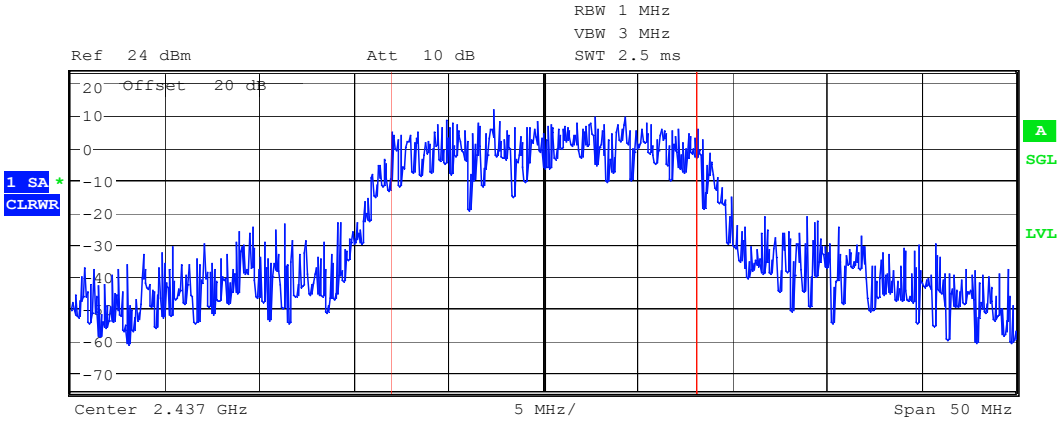
Note:

1.Please refer to page 40 to page 42 for chart
2.The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f≦18GHz)



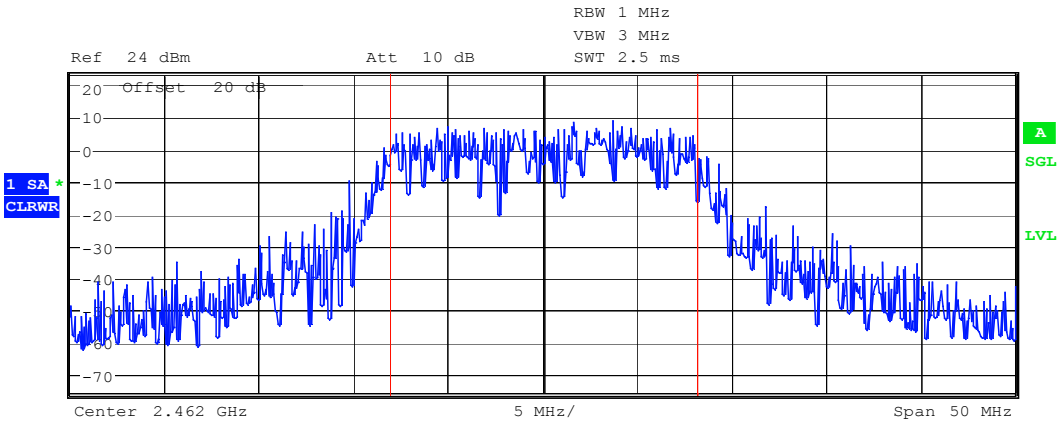
Tx Channel

Bandwidth	16.37 MHz	Power	14.68 dBm



Tx Channel

Bandwidth	16.21 MHz	Power	14.51 dBm



Tx Channel

Bandwidth 16.3 MHz Power 13.52 dBm

7.4.3 IEEE 802.11n, HT20

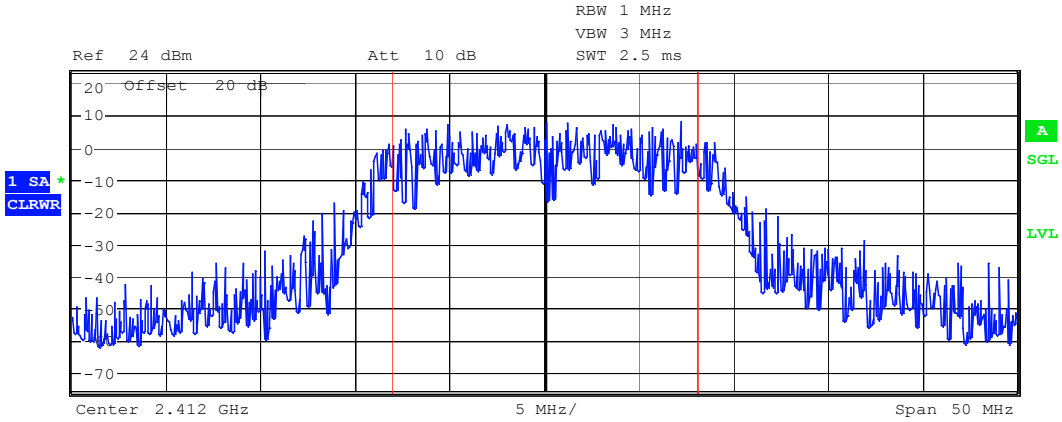
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Maximum Peak Output Power

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Attenuator & Cable Loss (dB)	99% BW (MHz)	Maximum Peak Output Power (dBm)	Maximum Peak Output Power (mW)	FCC Limit (mW)	Chart
1	2412	6.5	20.0	16.23	12.79	19.011	1000	Page 44
6	2437	6.5	20.0	16.52	12.67	18.493	1000	Page 45
11	2462	6.5	20.0	16.28	12.49	17.742	1000	Page 46

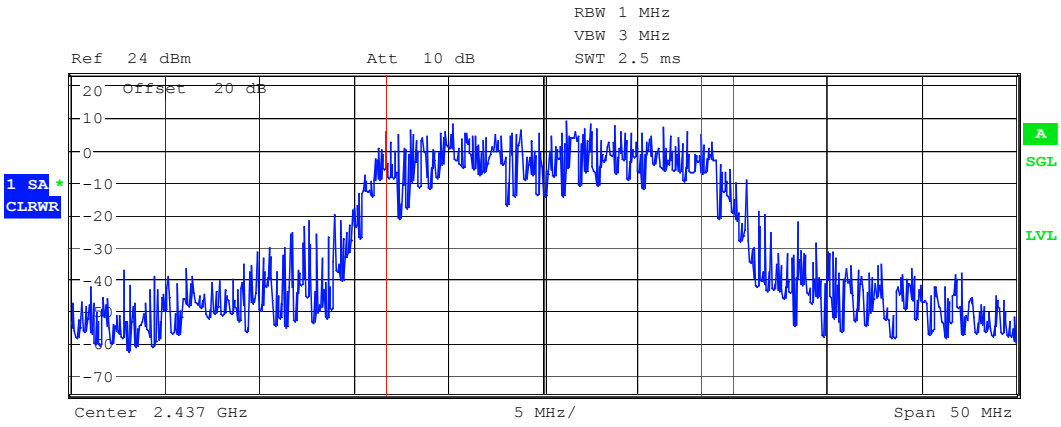
Note:

1.Please refer to page 44 to page 46 for chart
2.The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f≦18GHz)



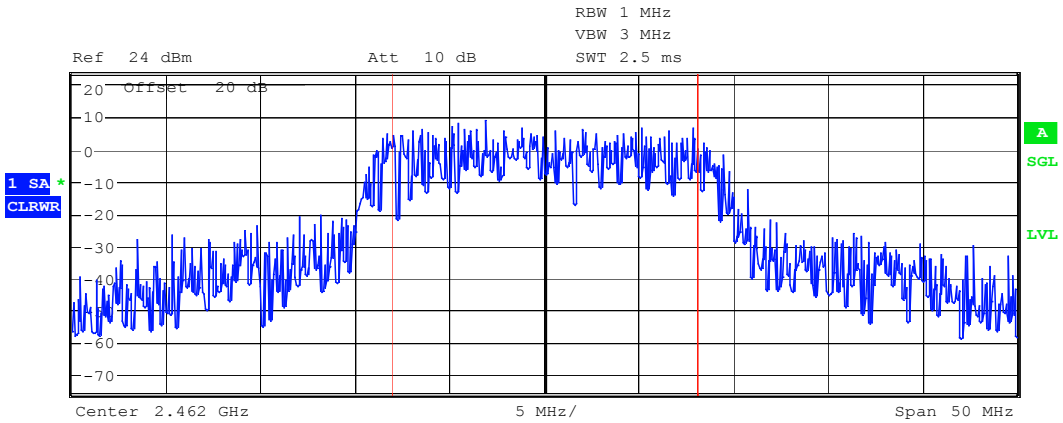
Tx Channel

Bandwidth 16.23 MHz Power 12.79 dBm



Tx Channel

Bandwidth	16.52 MHz	Power	12.67 dBm



Tx Channel

Bandwidth	16.28 MHz	Power	12.49 dBm

7.4.4 IEEE 802.11n, HT40

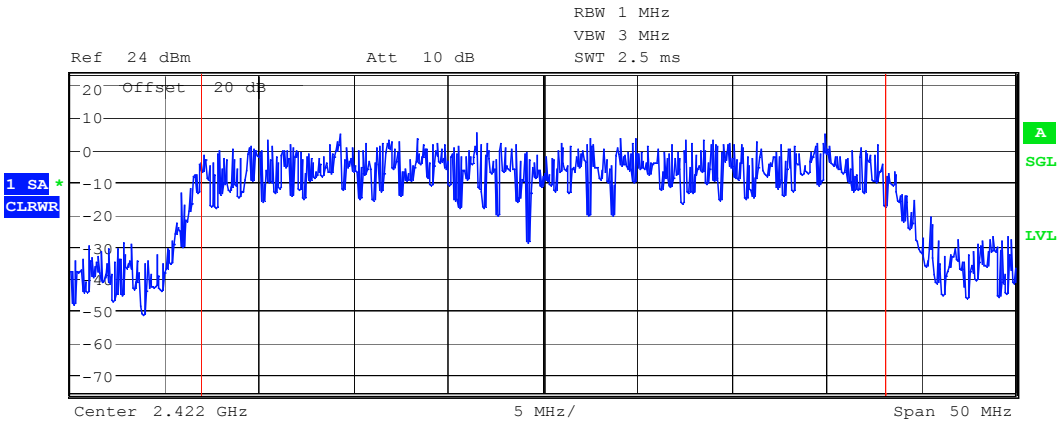
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Maximum Peak Output Power

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Attenuator & Cable Loss (dB)	99% BW (MHz)	Maximum Peak Output Power (dBm)	Maximum Peak Output Power (mW)	FCC Limit (mW)	Chart
3	2422	13.5	20.0	36.18	12.31	17.022	1000	Page 48
6	2437	13.5	20.0	36.25	12.16	16.444	1000	Page 49
9	2452	13.5	20.0	35.97	12.24	16.749	1000	Page 50

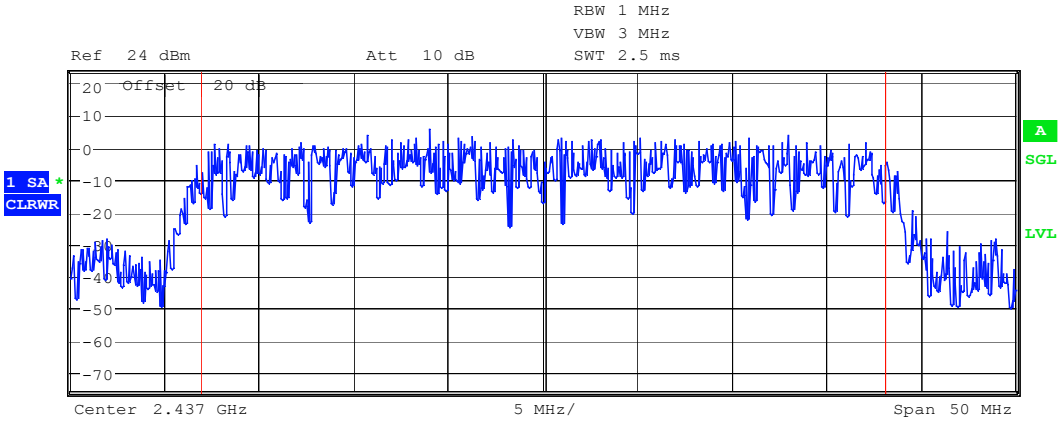
Note:

1.Please refer to page 48 to page 50 for chart
2.The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f≦18GHz)



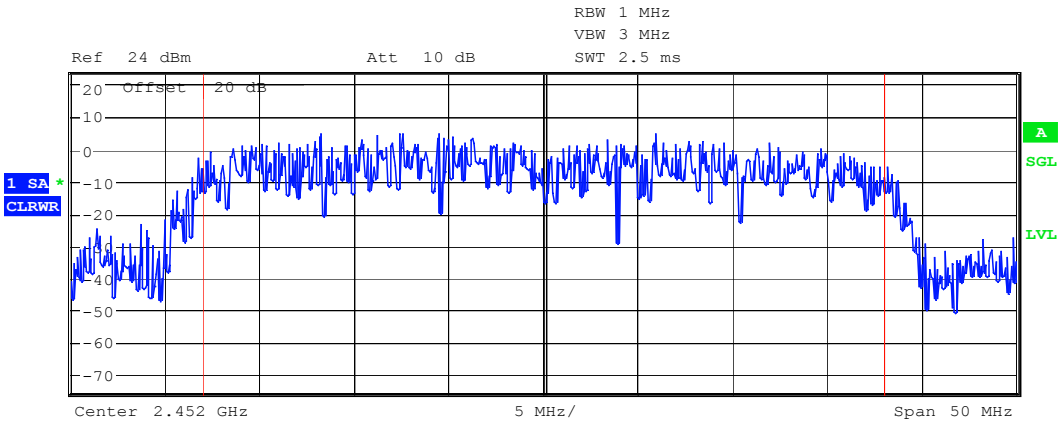
Tx Channel

Bandwidth 36.18 MHz Power 12.31 dBm



Tx Channel

Bandwidth	36.25 MHz	Power	12.16 dBm



Tx Channel

Bandwidth	35.97 MHz	Power	12.24 dBm

8 POWER DENSITY MEASUREMENT

8.1 Standard Applicable

According to 15.247(d), for direct sequence systems, the transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

8.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 2. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set EUT to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of spectrum analyzer on highest level appearing on spectral display within a 300 kHz frequency span.
4. Set the spectrum analyzer on a 3 kHz resolution bandwidth and 10 kHz video bandwidth as well as max. hold function, then record the measurement result.
5. Repeat above procedures until all measured frequencies were complete.

8.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	10/10/2008

8.4 Measurement Data

8.4.1 IEEE 802.11b

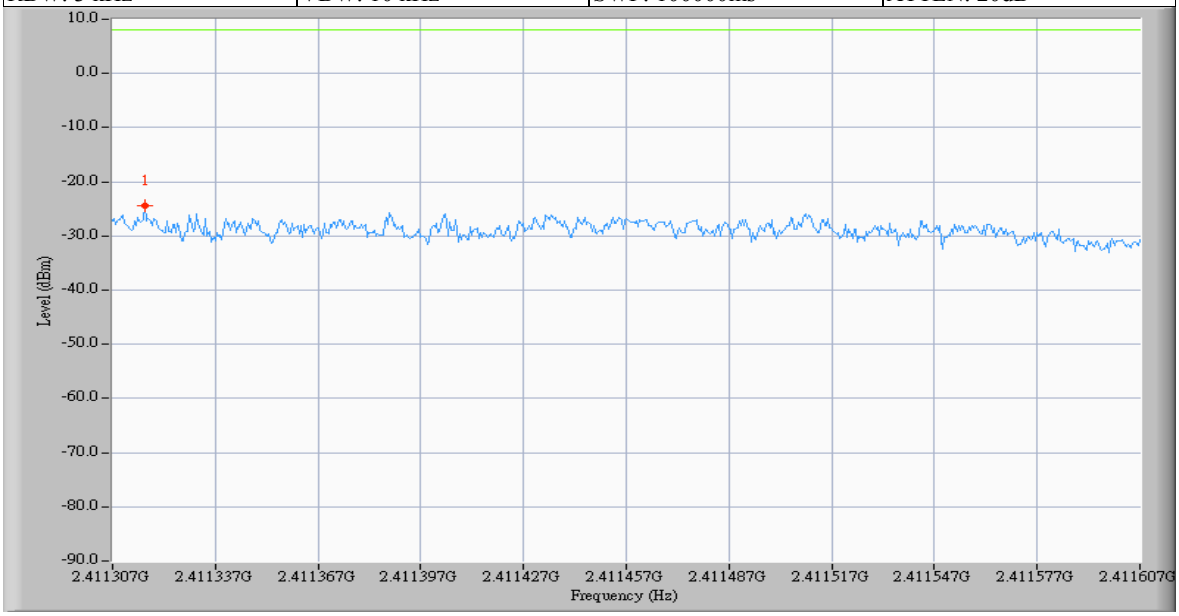
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Reading (dBm)	Cable Loss (dB)	Peak Power Spectral Density (dBm)	FCC Limit (dBm)	Chart
1	2412	1	-24.5	10.0	-14.5	8	Page 53
6	2437	1	-25.8	10.0	-15.8	8	Page 54
11	2462	1	-26.3	10.0	-16.3	8	Page 55

Note:

1. *Please refer to page 53 to page 55 for chart*
2. *The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f ≦18GHz)*

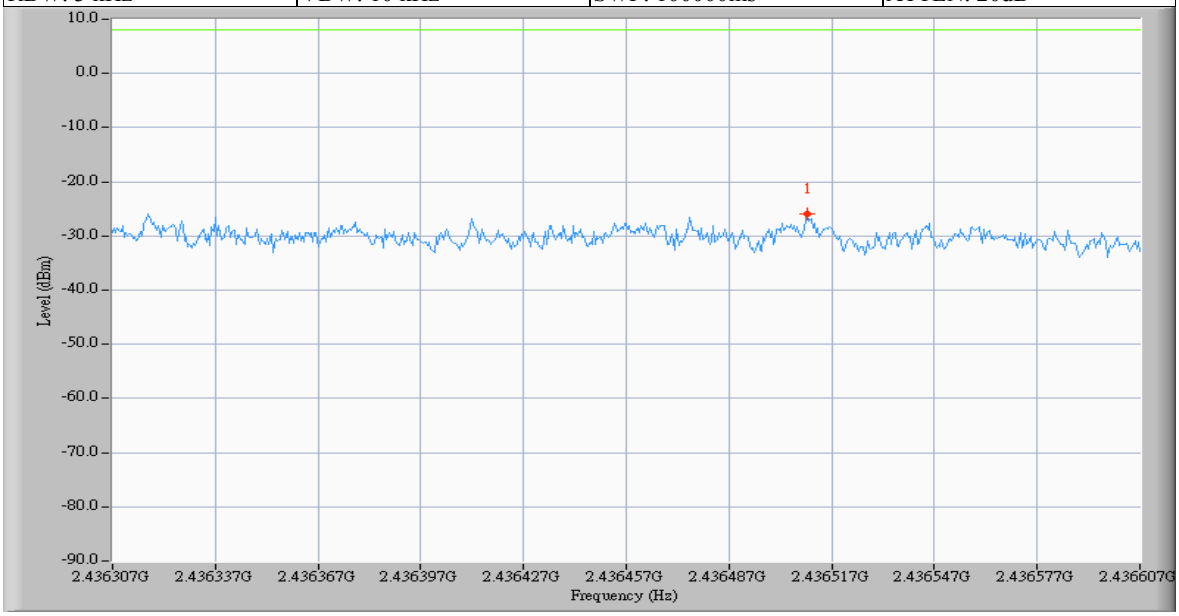
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH01-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2411.316	-24.5	10.0	-14.5	8.0	-22.5

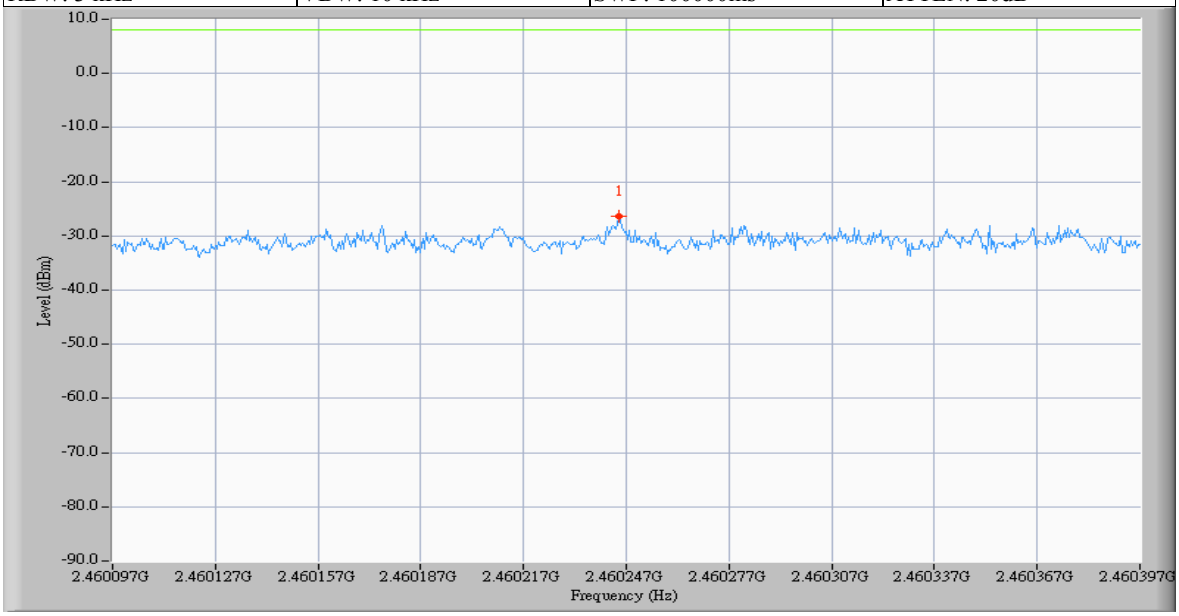
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH06-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2436.510	-25.8	10.0	-15.8	8.0	-23.8

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH11-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2460.245	-26.3	10.0	-16.3	8.0	-24.3

8.4.2 IEEE 802.11g

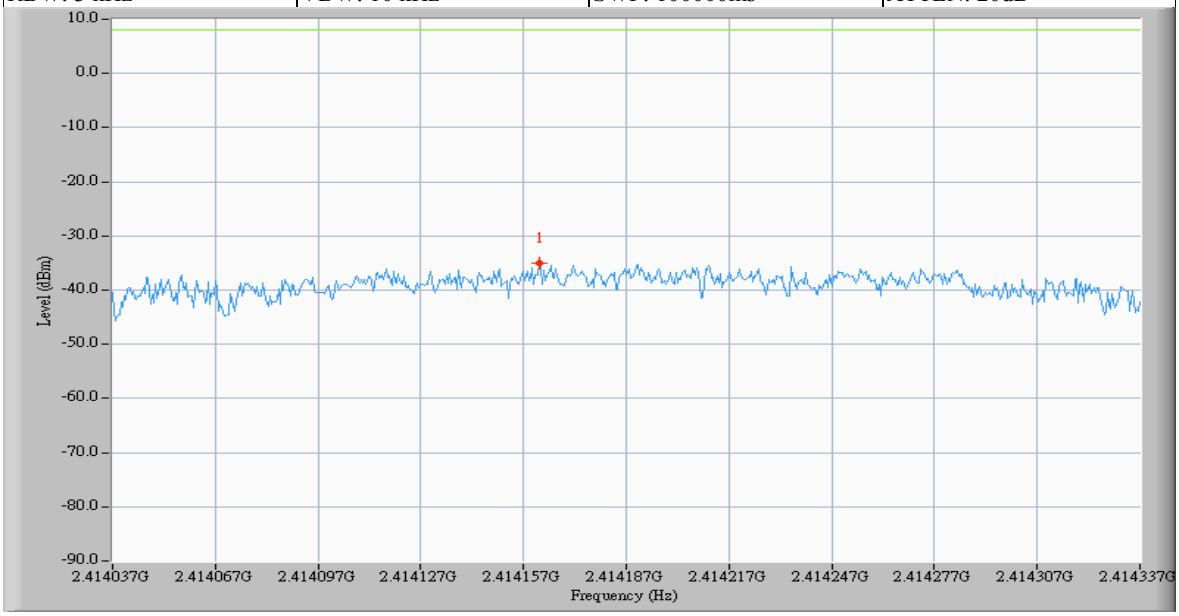
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Reading (dBm)	Cable Loss (dB)	Peak Power Spectral Density (dBm)	FCC Limit (dBm)	Chart
1	2412	6	-35.0	10.0	-25.0	8	Page 57
6	2437	6	-33.7	10.0	-23.7	8	Page 58
11	2462	6	-33.0	10.0	-23.0	8	Page 59

Note:

1. *Please refer to page 57 to page 59 for chart*
2. *The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f ≦18GHz)*

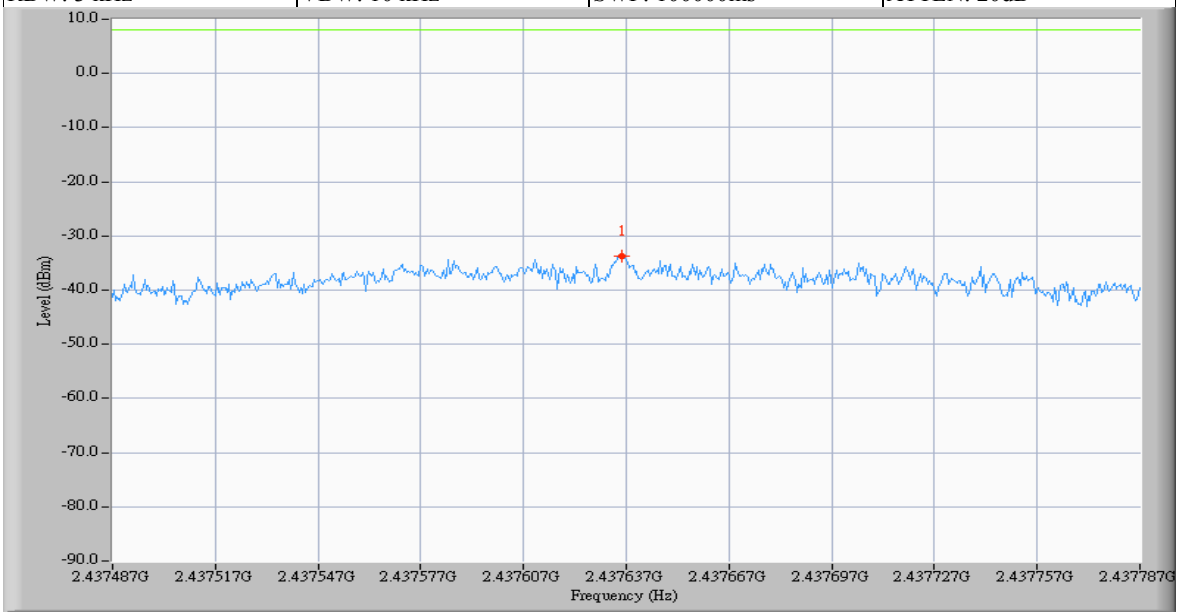
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH01-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2414.161	-35.0	10.0	-25.0	8.0	-33.0

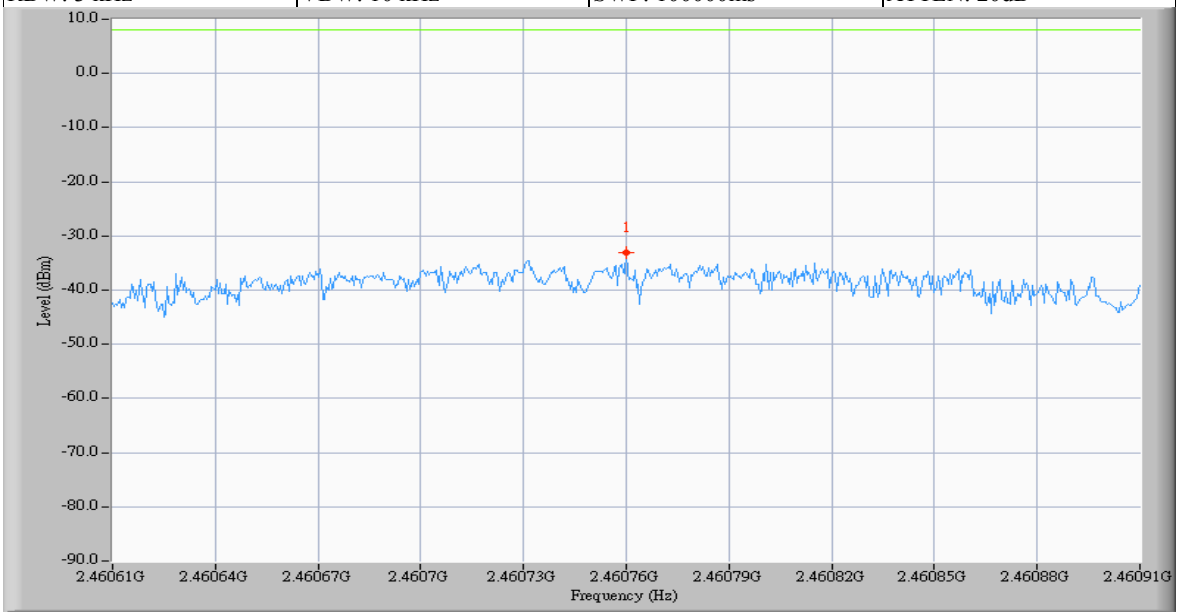
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH06-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2437.635	-33.7	10.0	-23.7	8.0	-31.7

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH11-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2460.760	-33.0	10.0	-23.0	8.0	-31.0

8.4.3 IEEE 802.11n, HT20

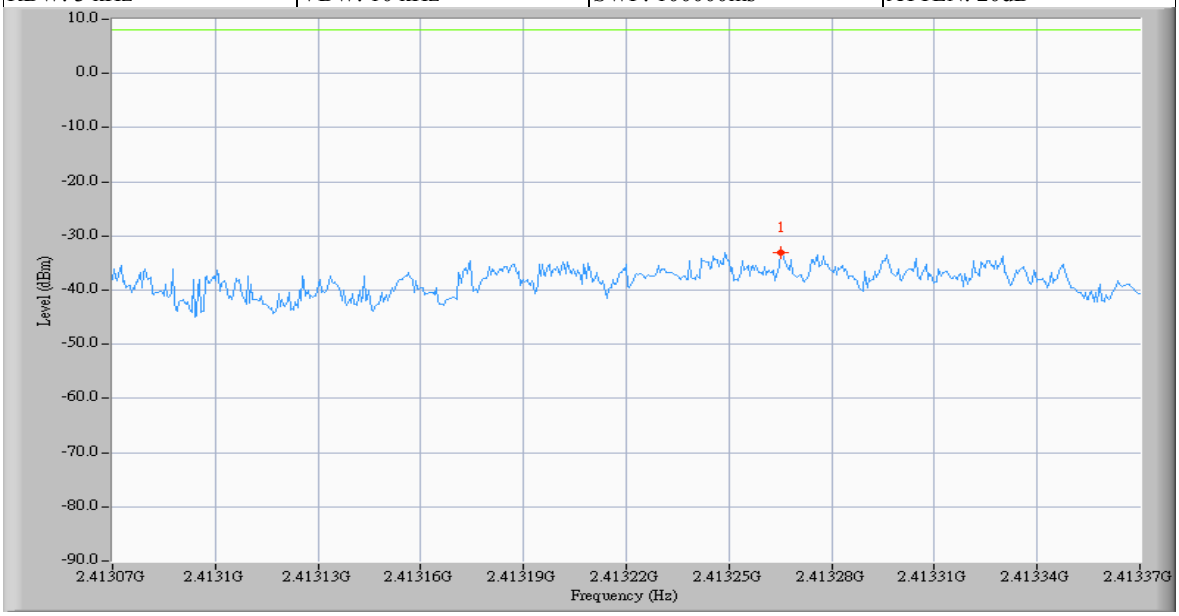
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Reading (dBm)	Cable Loss (dB)	Peak Power Spectral Density (dBm)	FCC Limit (dBm)	Chart
1	2412	6.5	-33.0	10.0	-23.0	8	Page 61
6	2437	6.5	-33.8	10.0	-23.8	8	Page 62
11	2462	6.5	-34.3	10.0	-24.3	8	Page 63

Note:

1. *Please refer to page 61 to page 63 for chart*
2. *The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f ≦18GHz)*

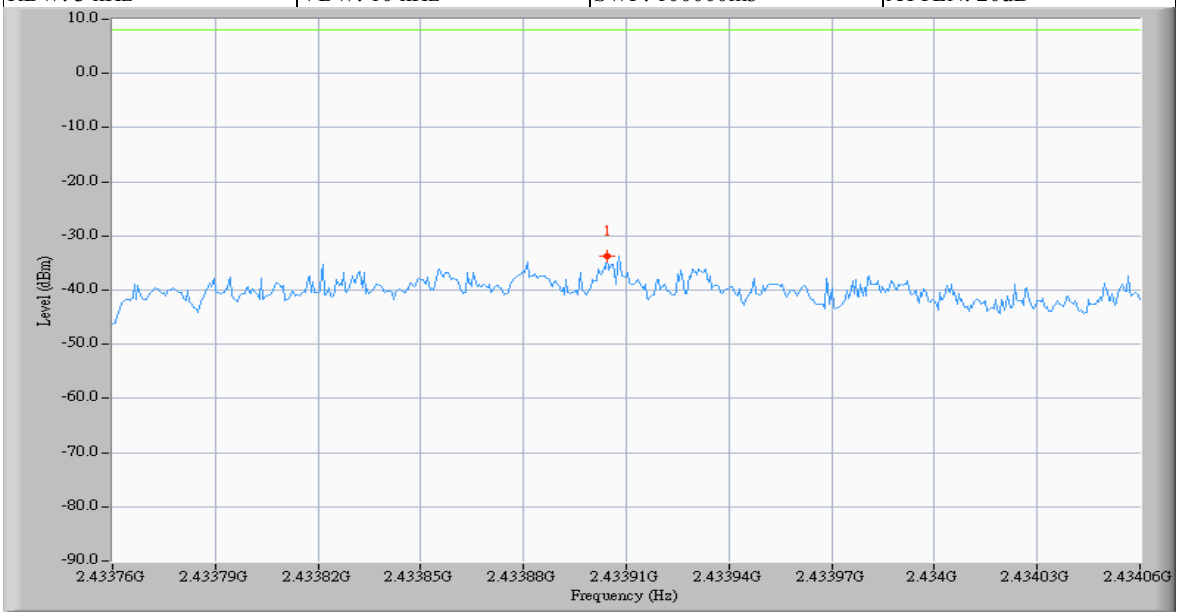
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH01-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2413.265	-33.0	10.0	-23.0	8.0	-31.0

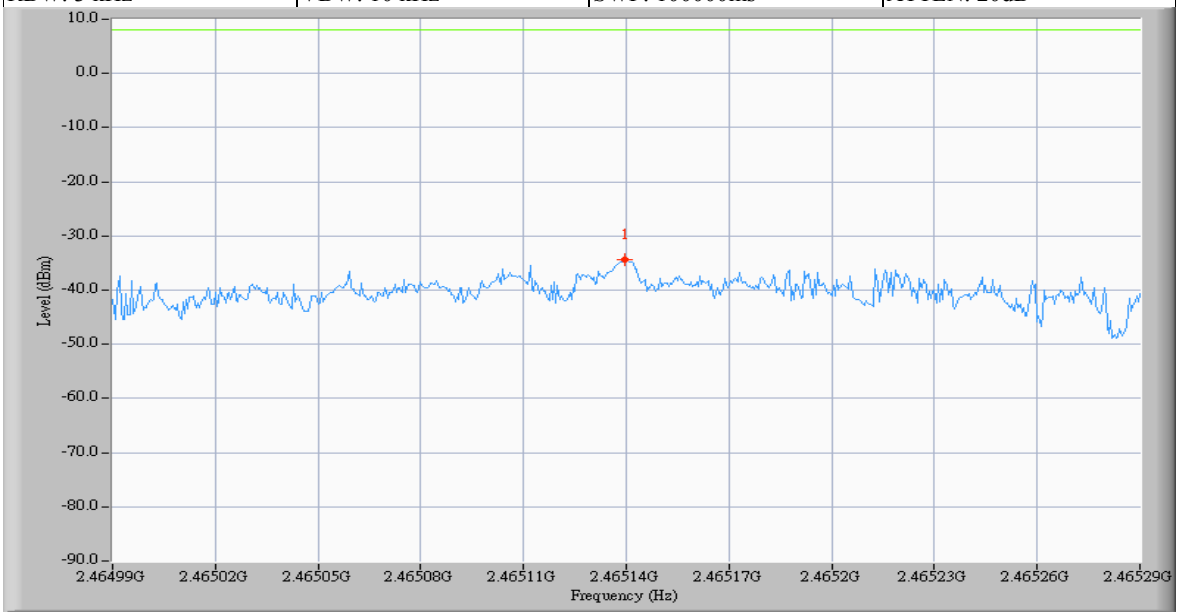
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH06-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2433.905	-33.8	10.0	-23.8	8.0	-31.8

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH11-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2465.140	-34.3	10.0	-24.3	8.0	-32.3

8.4.4 IEEE 802.11n, HT40

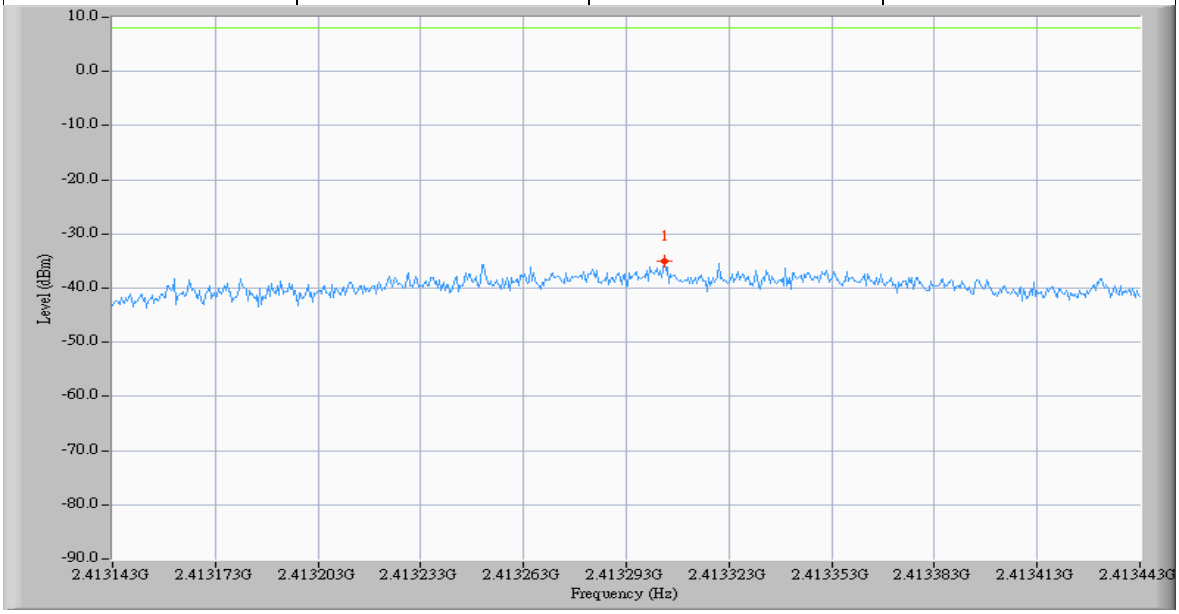
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency (MHz)	Data Transfer Rate (Mbps)	Reading (dBm)	Cable Loss (dB)	Peak Power Spectral Density (dBm)	FCC Limit (dBm)	Chart
3	2422	13.5	-35.0	10.0	-25.0	8	Page 65
6	2437	13.5	-36.7	10.0	-26.7	8	Page 66
9	2452	13.5	-37.3	10.0	-27.3	8	Page 67

Note:

1. *Please refer to page 65 to page 67 for chart*
2. *The estimated measurement uncertainty of the result measurement is ±1.5dB(1GHz≦f ≦18GHz)*

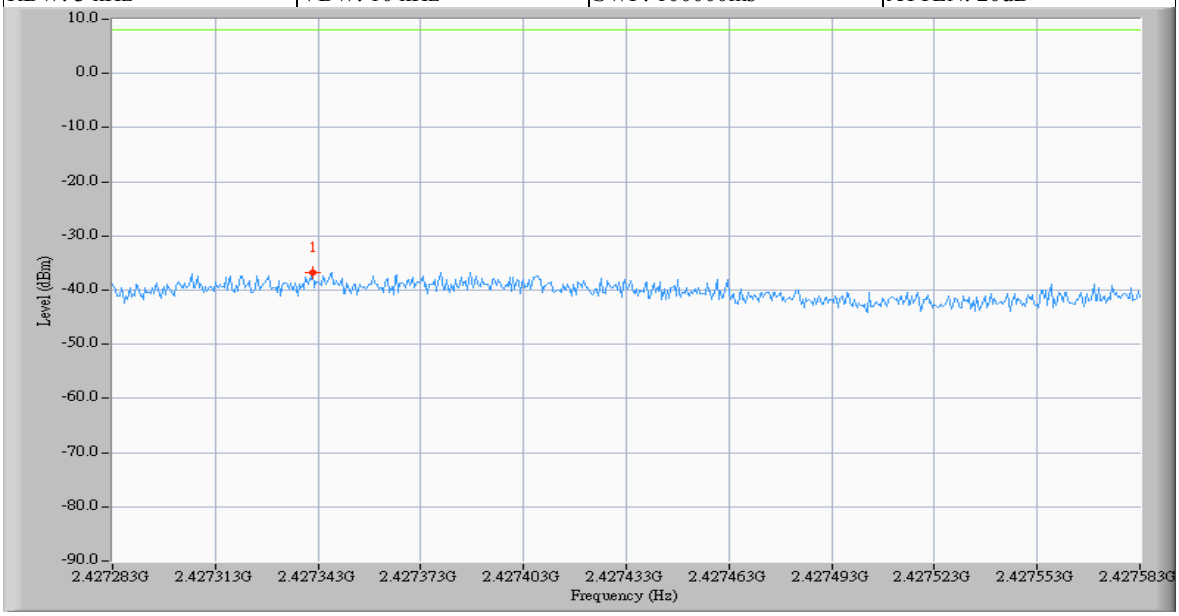
EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH03-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2413.304	-35.0	10.0	-25.0	8.0	-33.0

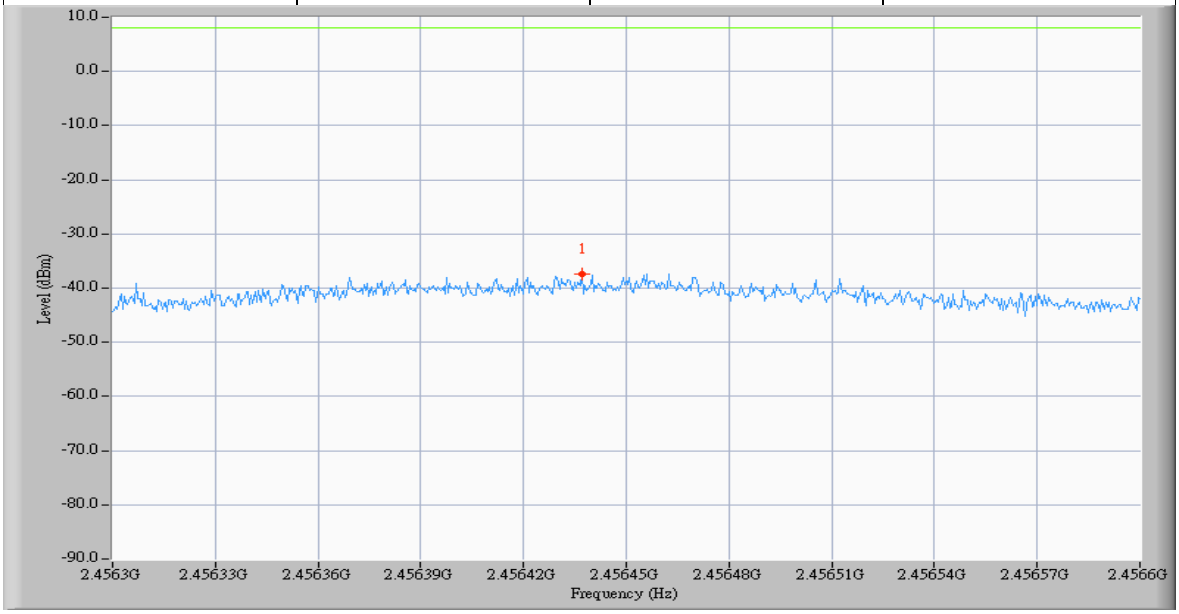
EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH06-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2427.342	-36.7	10.0	-26.7	8.0	-34.7

EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH09-PwrDensity	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 3 kHz	VBW: 10 kHz	SWP: 100000ms	ATTEN: 20dB



Test Request: (8dBm)

	Freq (MHz)	PK Level (dBm)	Factor (dB)	PK Result (dBm)	PK Limit (dBm)	PK Margin (dB)
1	2456.437	-37.3	10.0	-27.3	8.0	-35.3

9 SPURIOUS EMISSION - RF CONDUCTED MEASUREMENT

9.1 Standard Applicable

According to 12.247 (c) , in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 2. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

9.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Agilent	8564EC	10/10/2008

9.4 Measurement Data

9.4.1 IEEE 802.11b

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency(MHz)	Chart
1	2412	Page 71, Page 73
6	2437	Page 74
11	2462	Page 72, Page 75

All out-of –band conducted emissions were more than 20dB below the carrier.

Note: Please refer to page 71 to page 75 for chart

9.4.2 IEEE 802.11g

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency(MHz)	Chart
1	2412	Page 76, Page 78
6	2437	Page 79
11	2462	Page 77, Page 80

All out-of –band conducted emissions were more than 20dB below the carrier.

Note: Please refer to page 76 to page 80 for chart

9.4.3 IEEE 802.11n, HT20

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency(MHz)	Chart
1	2412	Page 81, Page 83
6	2437	Page 84
11	2462	Page 82 Page 85

All out-of –band conducted emissions were more than 20dB below the carrier.

Note: Please refer to page 81 to page 85 for chart

9.4.4 IEEE 802.11n, HT40

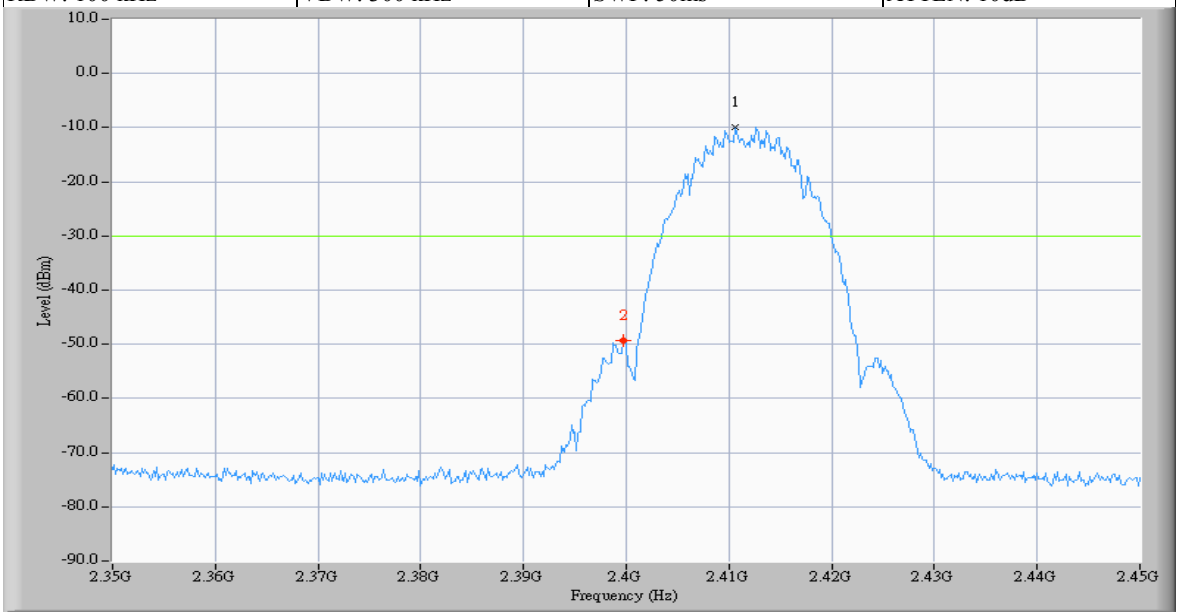
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Channel	Frequency(MHz)	Chart
3	2422	Page 86, Page 88
6	2437	Page 89
9	2452	Page 87, Page 90

All out-of –band conducted emissions were more than 20dB below the carrier.

Note: Please refer to page 86 to page 90 for chart

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH01-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

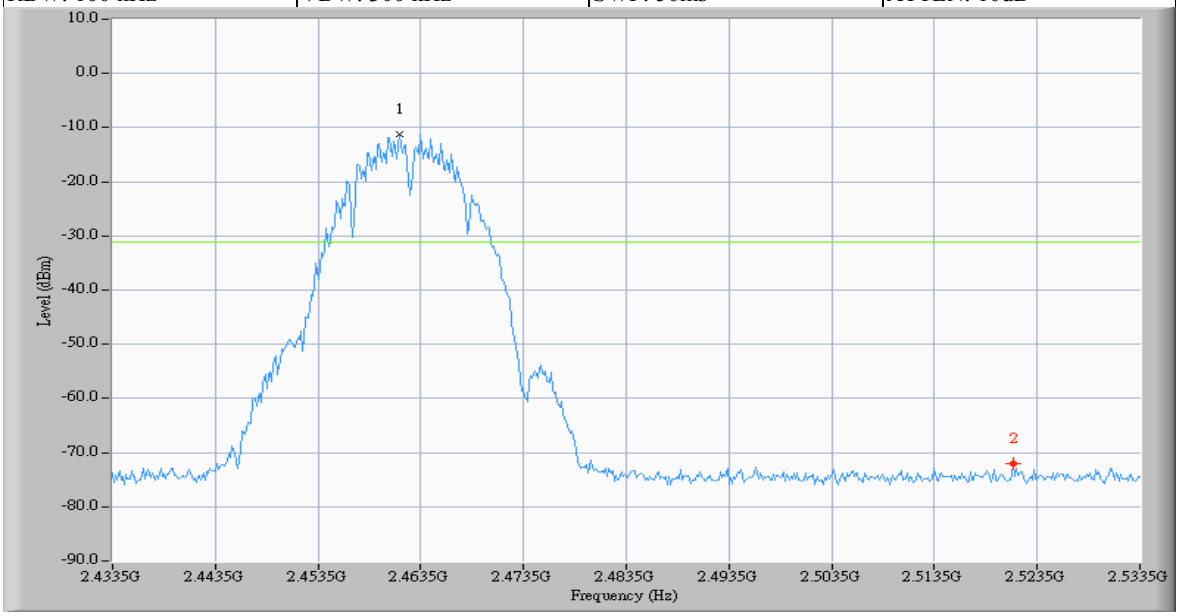


Test Request: (-30.0dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2410.667	-10.0
2	2399.667	-49.3

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	11.000	39.3

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH11-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

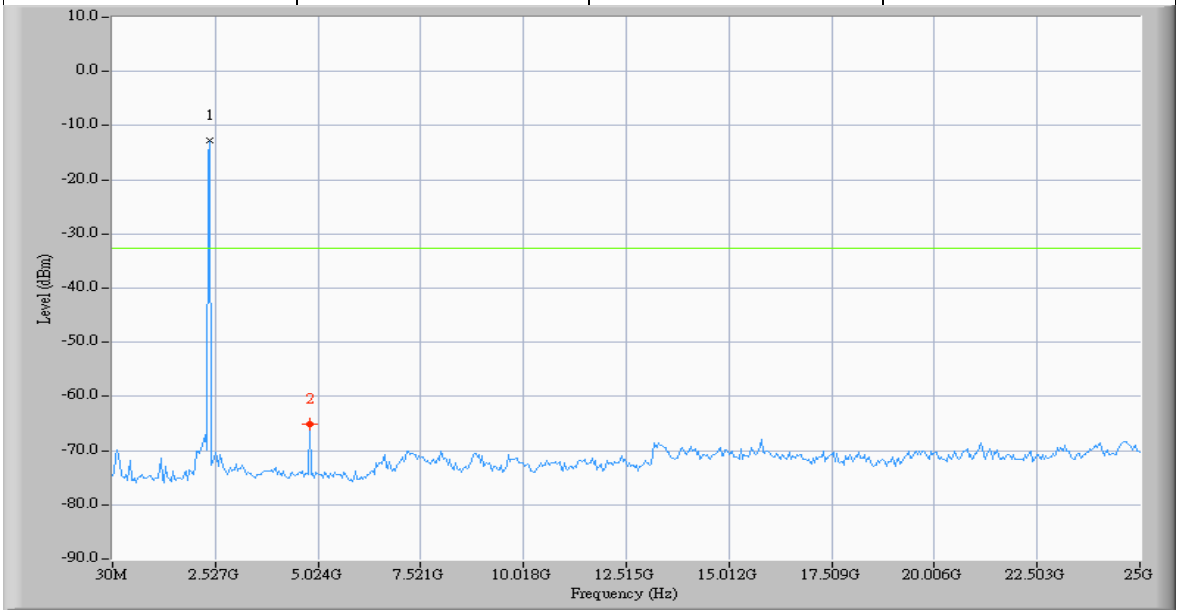


Test Request: (-31.2dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2461.500	-11.2
2	2521.167	-72.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-59.667	60.8

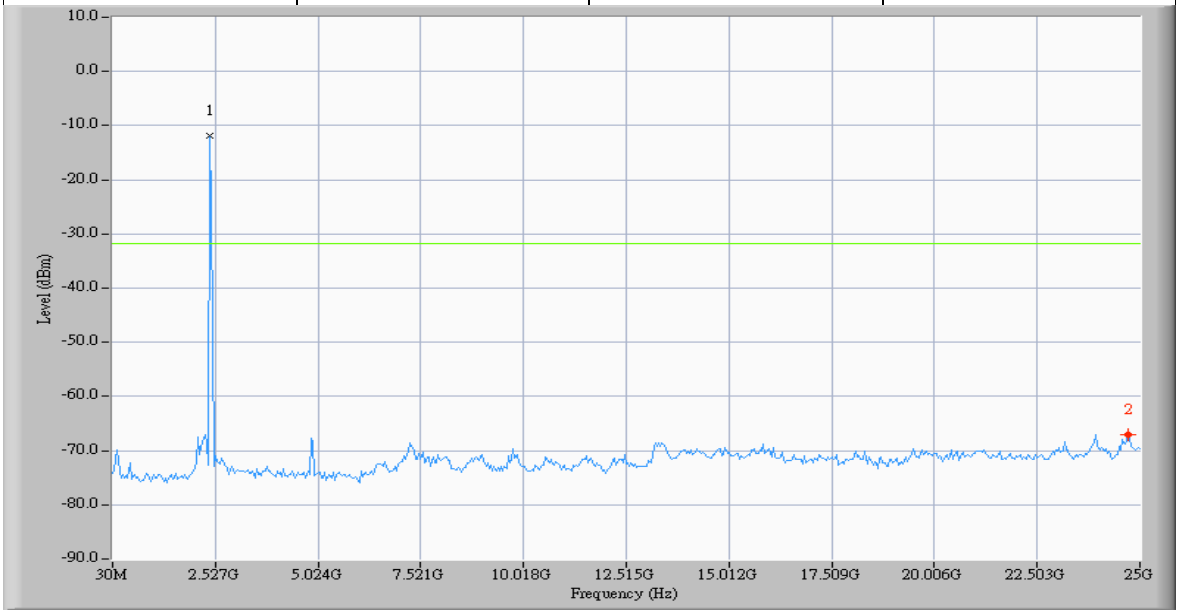
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH01-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-32.7dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-2413.767	52.3

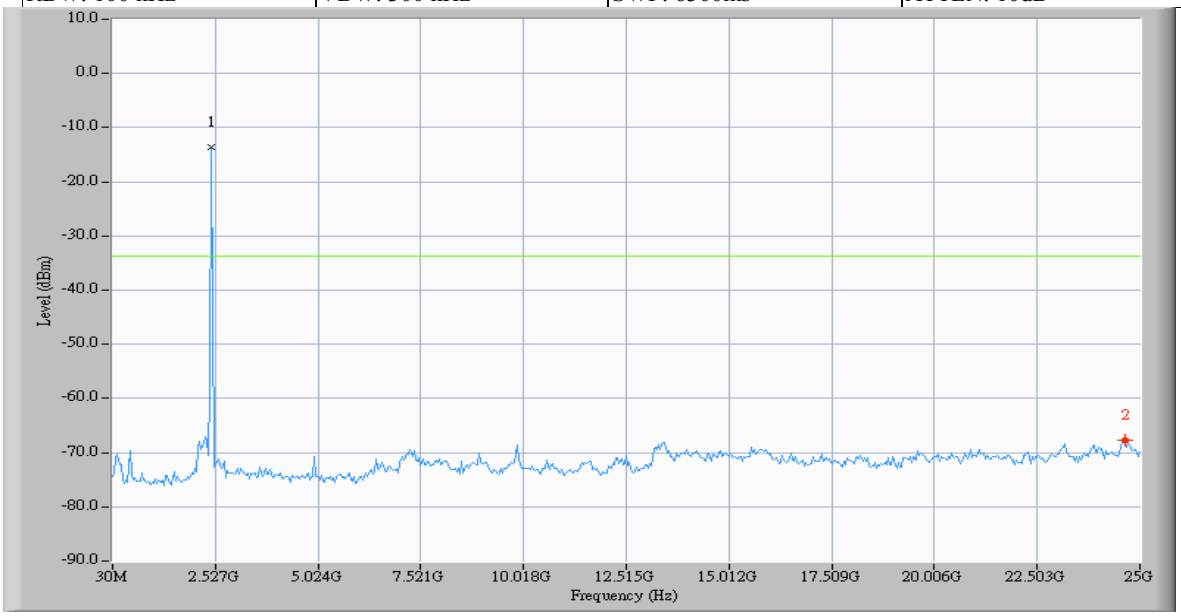
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH06-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-31.8dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22306.533	55.2

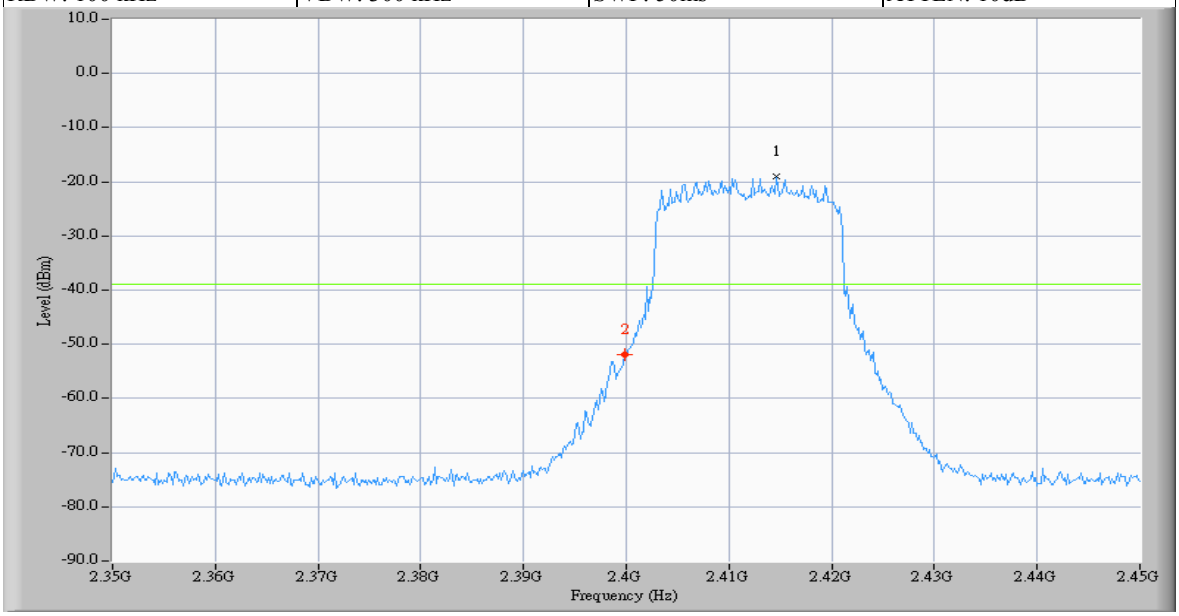
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11b-CH11-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-33.7dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22181.683	54.0

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH01-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

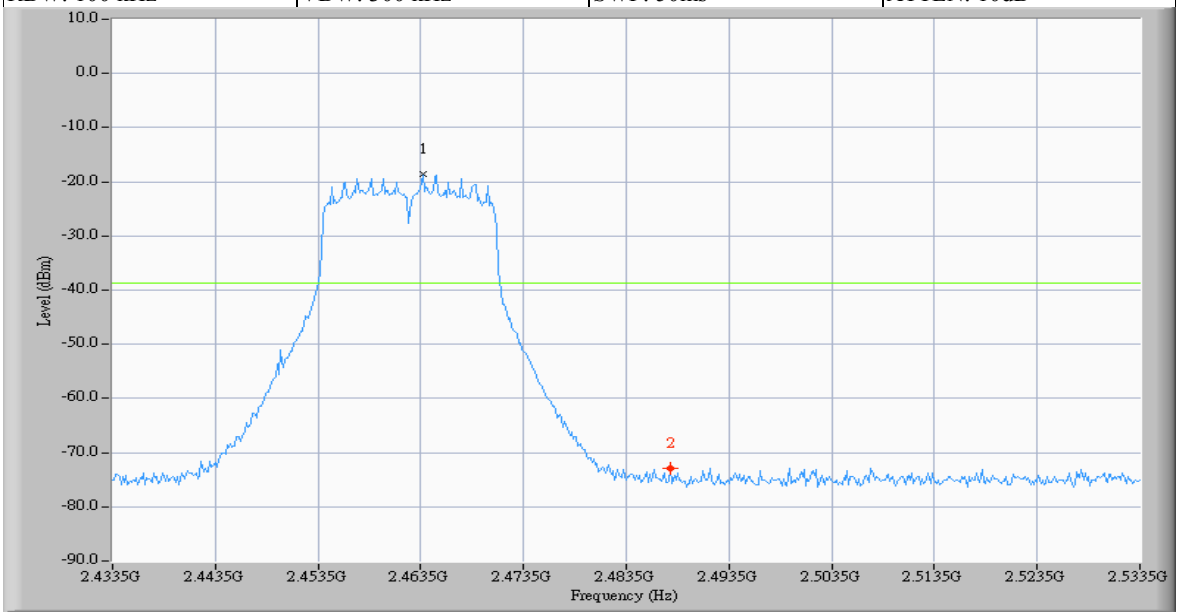


Test Request: (-39.0dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2414.667	-19.0
2	2399.833	-52.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	14.834	33.0

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH11-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

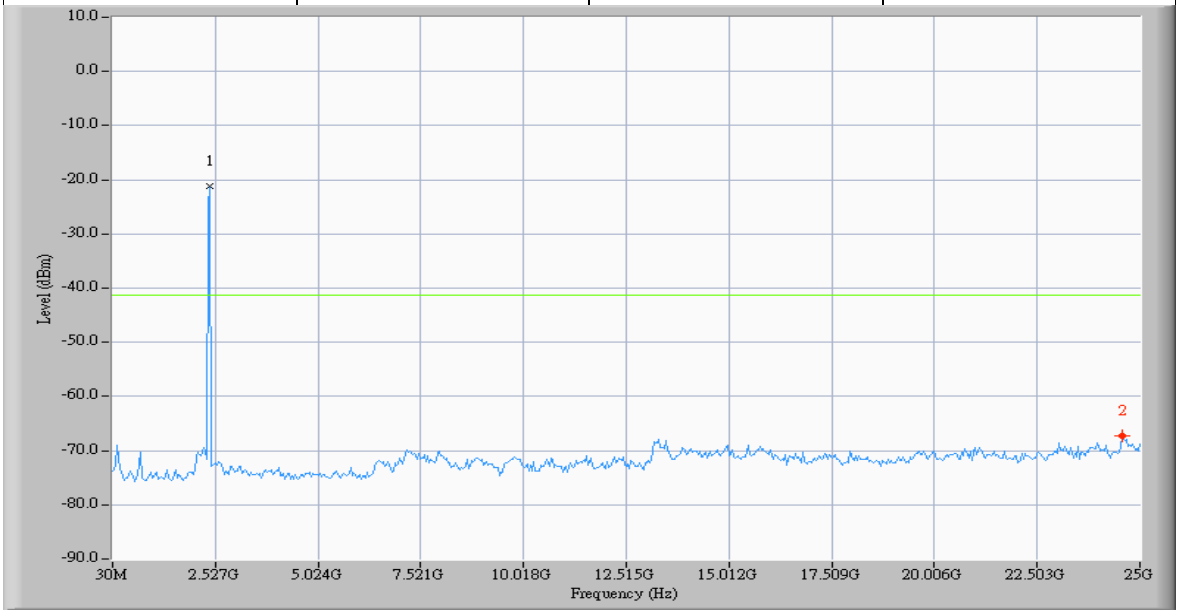


Test Request: (-38.7dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2463.667	-18.7
2	2487.833	-72.8

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-24.166	54.1

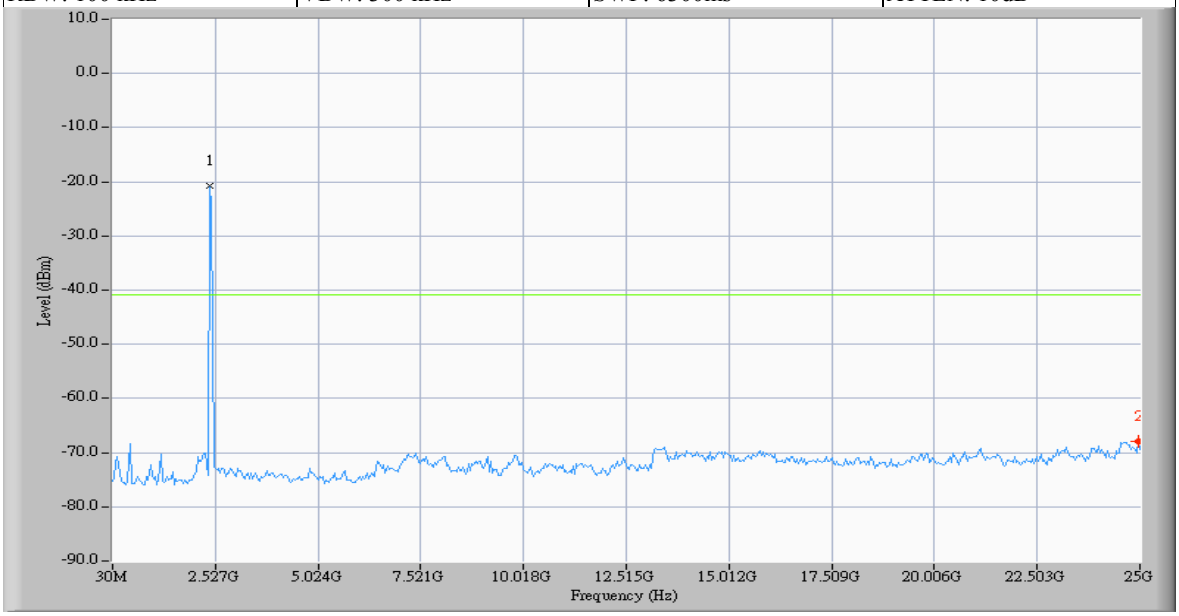
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH01-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-41.2dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22181.683	46.1

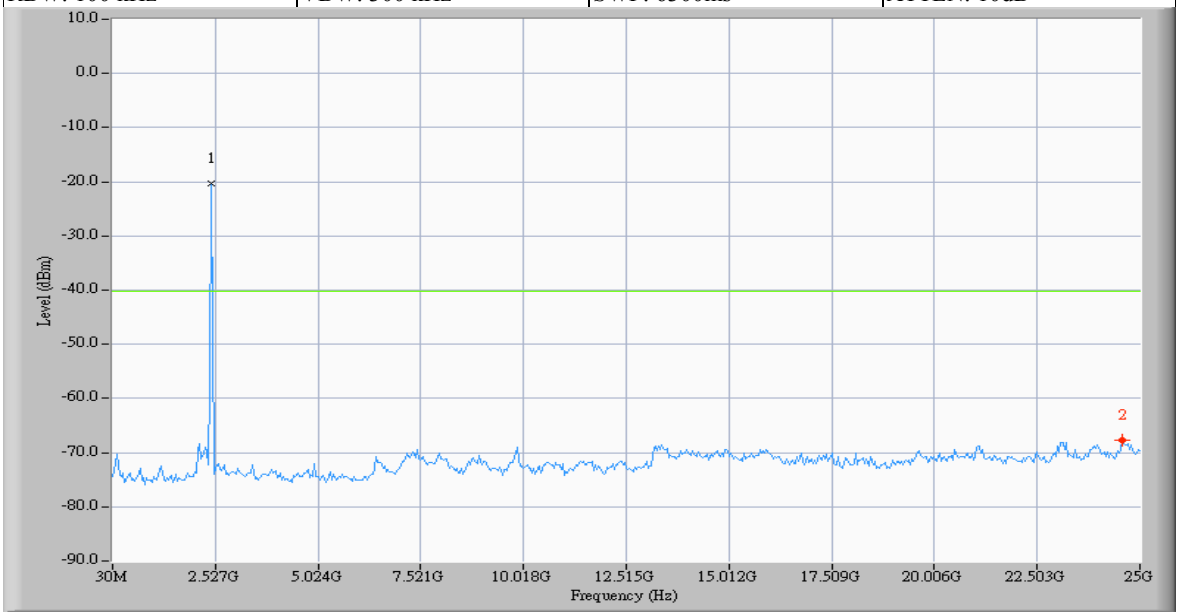
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH06-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-40.8dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22556.233	47.0

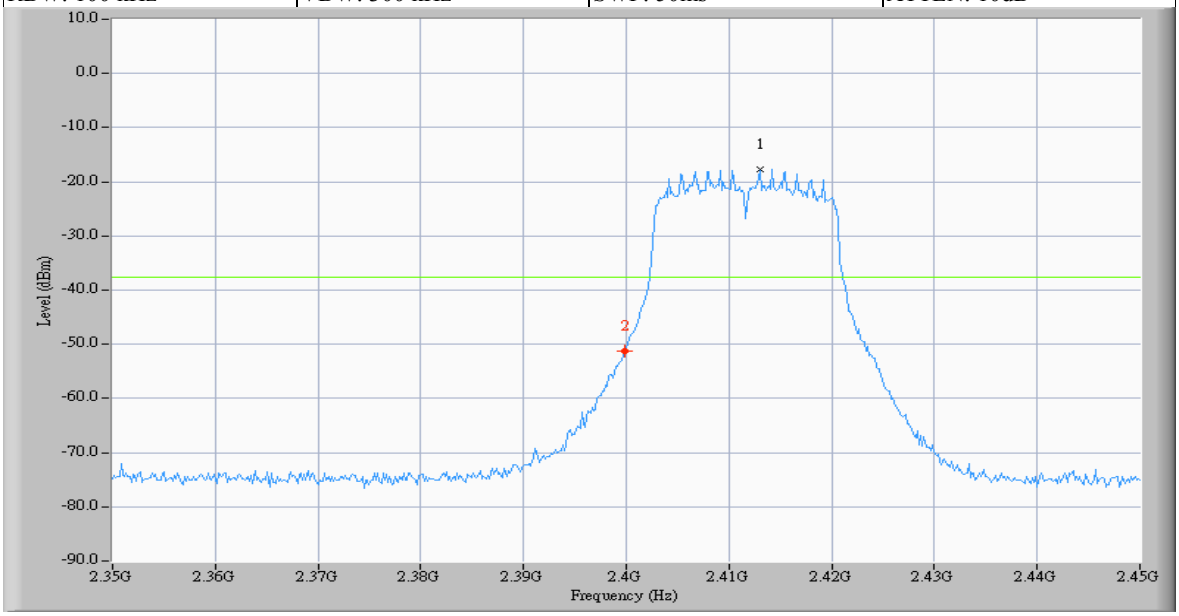
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11g-CH11-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-40.3dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22140.066	47.4

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH01-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

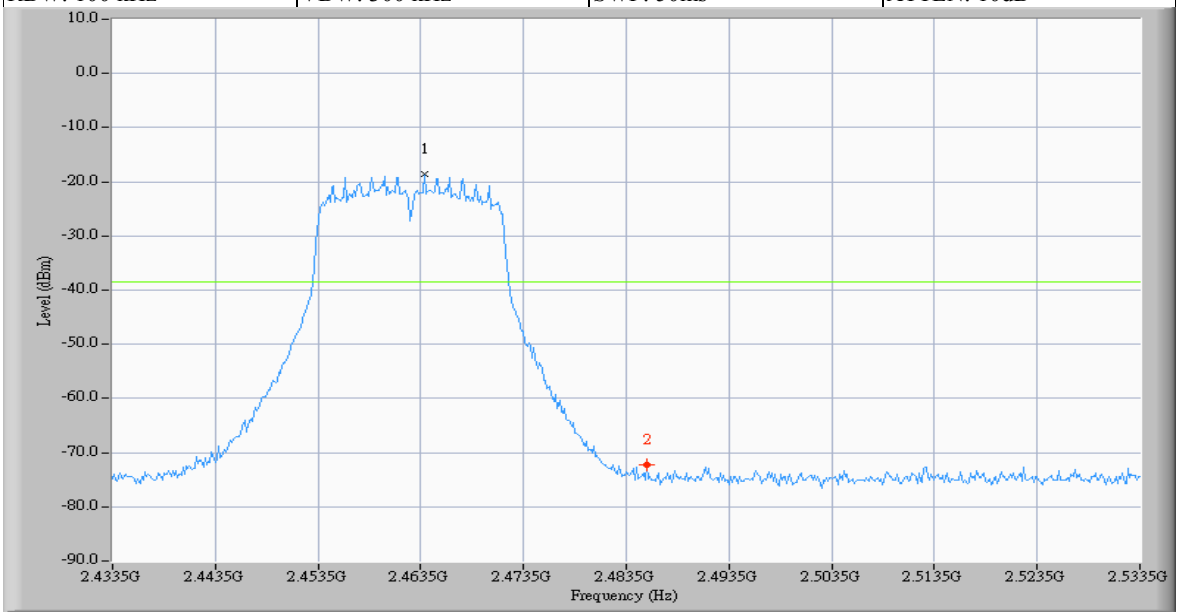


Test Request: (-37.7dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2413.000	-17.7
2	2399.833	-51.3

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	13.167	33.6

EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH11-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

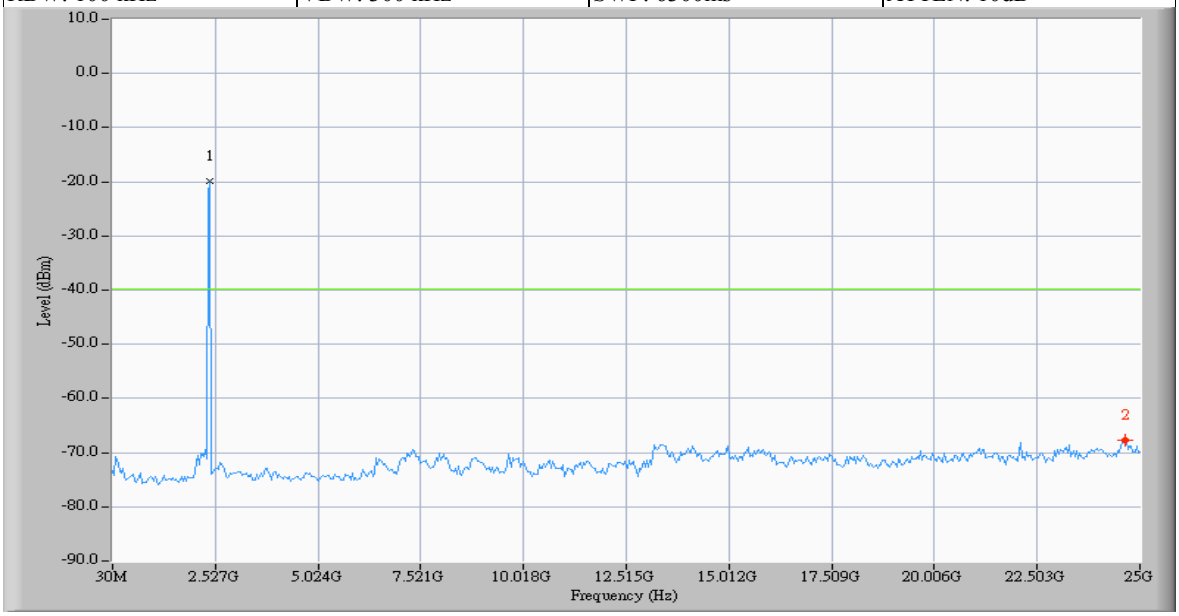


Test Request: (-38.5dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2463.833	-18.5
2	2485.500	-72.2

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-21.667	53.7

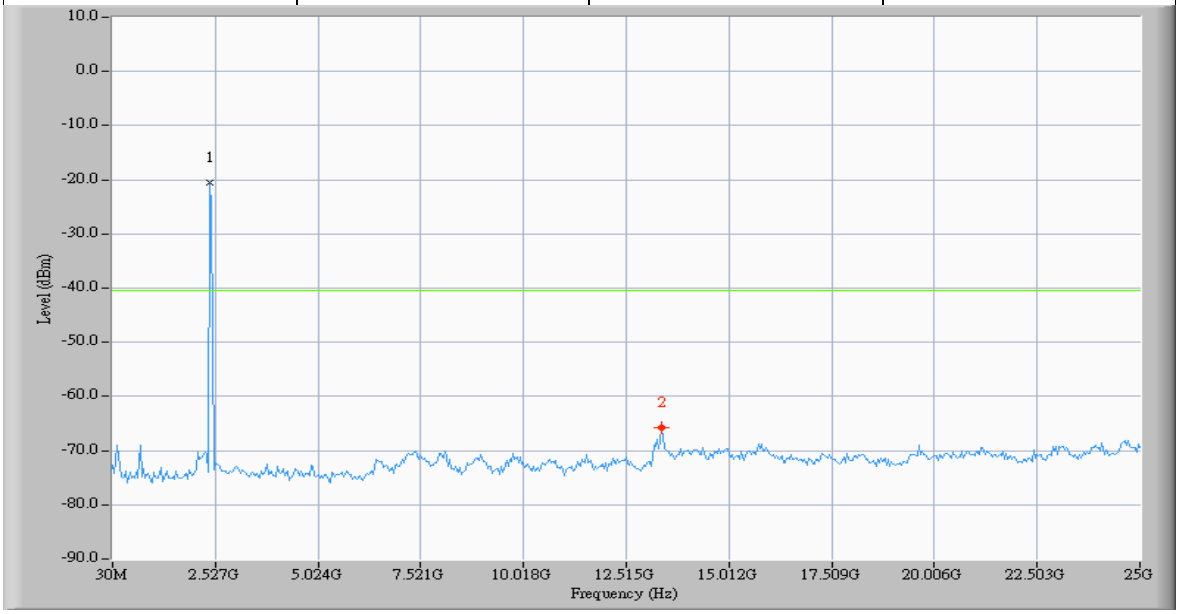
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH01-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-39.8dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22223.300	47.9

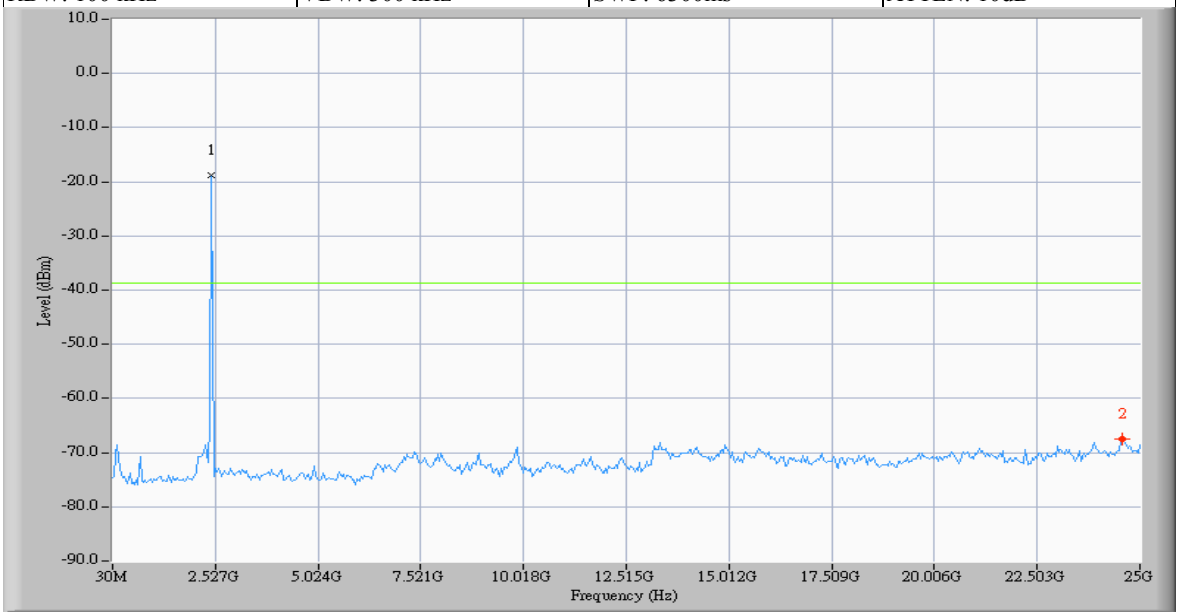
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH06-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-40.5dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-10986.800	45.3

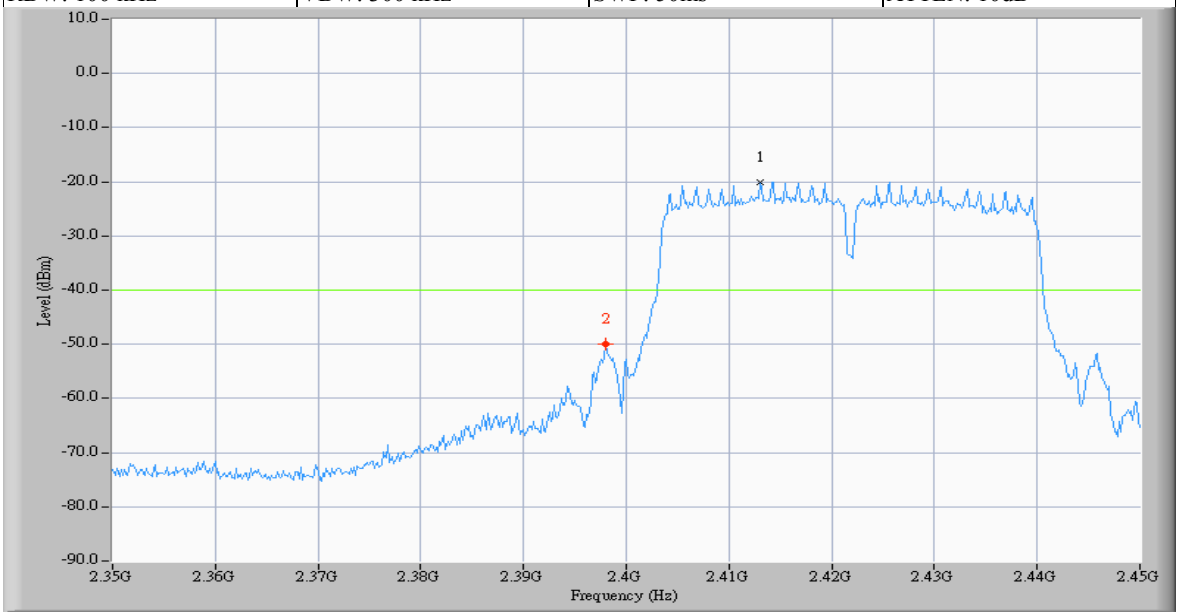
EUT : WLAN 11n Clint Adapter	Model : WL-6200C	Status : WLAN-11n-CH11-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-38.8dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-22140.066	48.7

EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH03-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

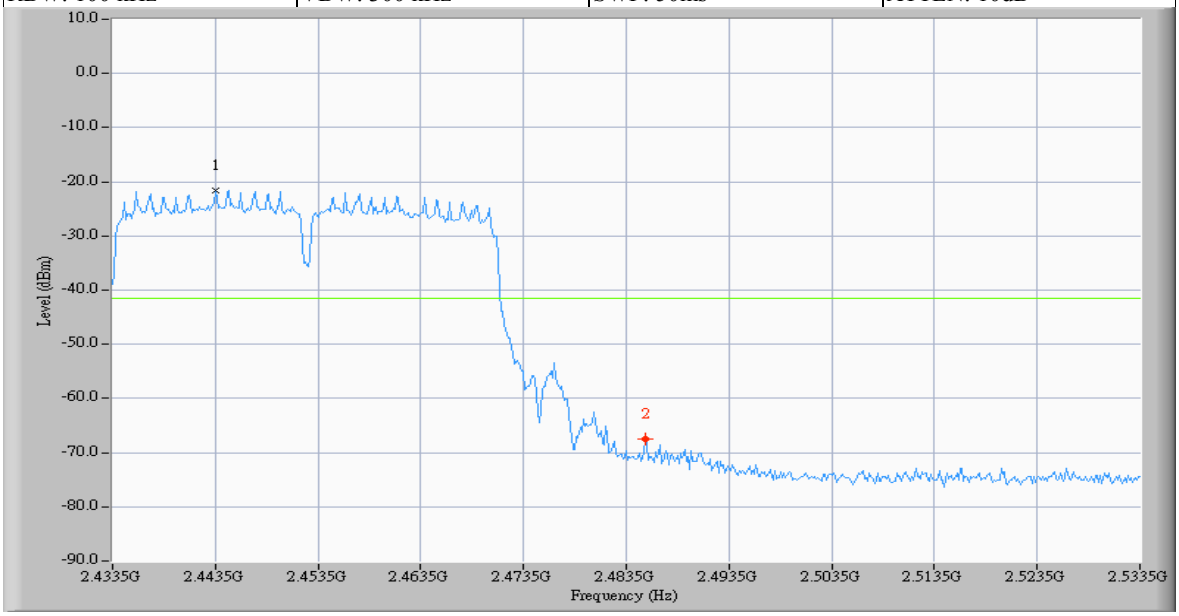


Test Request: (-40.0dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2413.000	-20.0
2	2398.000	-50.0

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	15.000	30.0

EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH09-Band Edge	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 50ms	ATTEN: 10dB

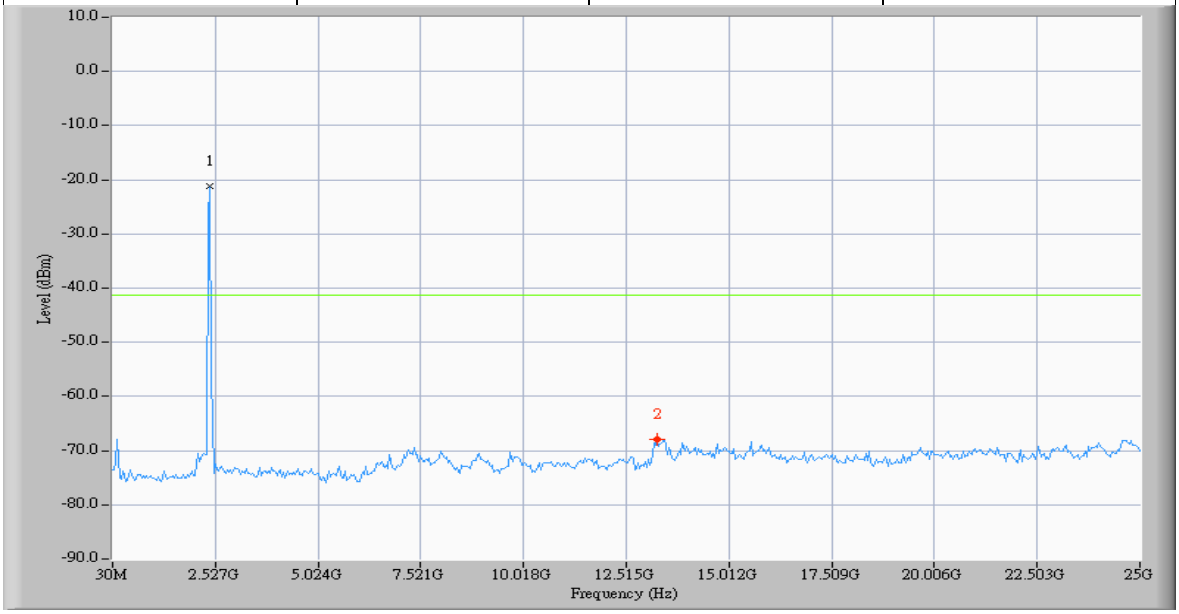


Test Request: (-41.5dBm)

Mkr	Frequency (MHz)	Level (dBm)
1	2443.500	-21.5
2	2485.333	-67.5

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-41.833	46.0

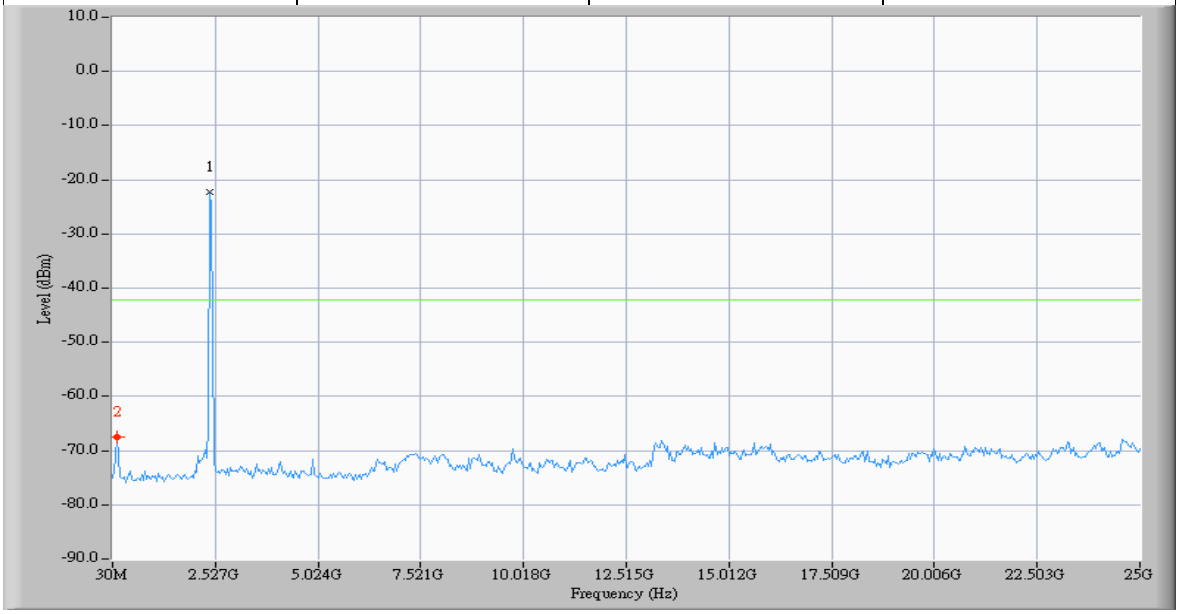
EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH03-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-41.2dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	-10861.950	46.6

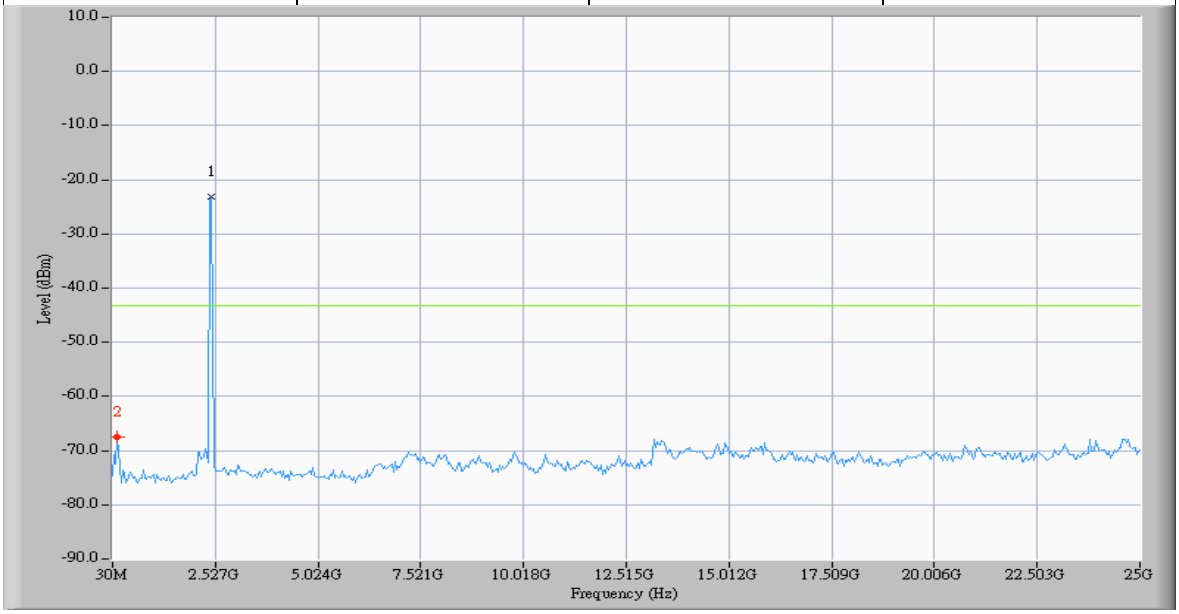
EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH06-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-42.2dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	2247.300	45.3

EUT : WLAN 11n Client Adapter	Model : WL-6200C	Status : WLAN-11n-CH09-BandEdge_All	
Condition : RF Conduction	Date : 2008/5/12	Temp. : 24℃	Humi. : 52%
RBW: 100 kHz	VBW: 300 kHz	SWP: 6300ms	ATTEN: 10dB



Test Request: (-43.2dBm)

		△Frequency (MHz)	△Level (dB)
1	Mkr 1 - Mkr 2	2288.917	44.3

10 RADIATED EMISSION MEASUREMENT

10.1 Standard Applicable

For unintentional radiator, the radiated emission shall comply with §15.109(a).

For intentional radiators, according to §15.247 (a), operation under this provision is limited to frequency hopping and direct sequence spread spectrum, and the out band emission shall be comply with §15.247 (c)

10.2 Measurement Procedure

A.Preliminary Measurement For Portable Devices.

For portable devices, the following procedure was performed to determine the maximum emission axis of EUT (X and Y axis):

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antennna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. The axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.
4. The position in which the maximum noise occurred was “X axis”. (Please see the test setup photos)

B. Final Measurement

1. Setup the configuration per figure 4 and 5 for frequencies measured below and above 1 GHz respectively.
2. For emission frequencies measured below 1 GHz, it is performed in a semi-anechoic chamber to determine the accurate frequencies of higher emissions. For emission frequencies measured above 1 GHz, a pre-scan be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 120 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
   Note : A filter was used to avoid pre-amplifier saturated when measure TX operation mode.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the datarate, placement of ANT. cables associated with EUT to obtain the worse case and record the result.

Figure 4 : Frequencies measured below 1 GHz configuration

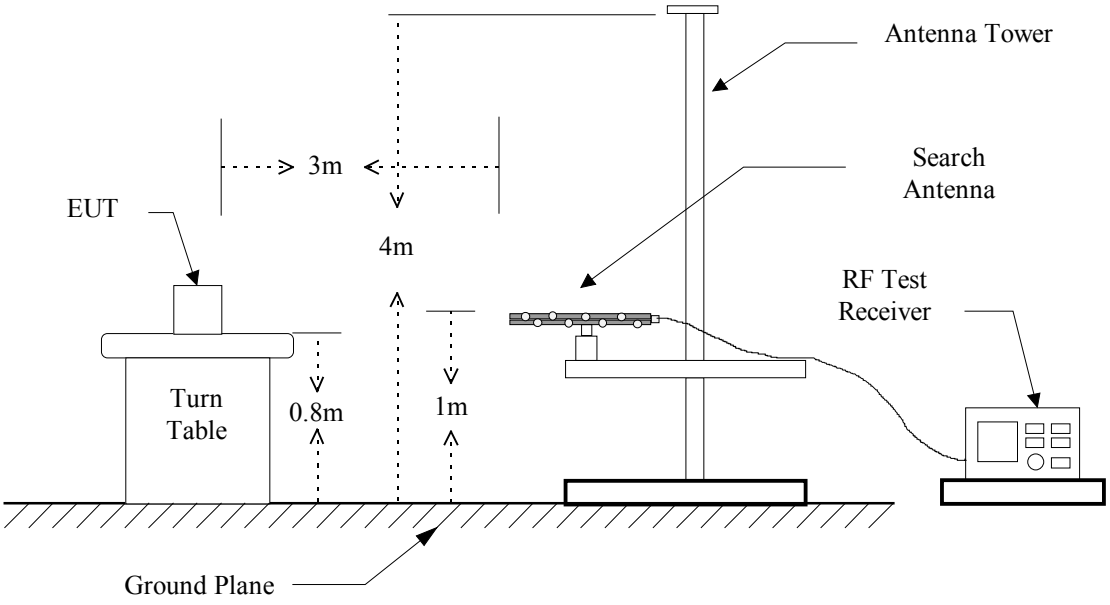
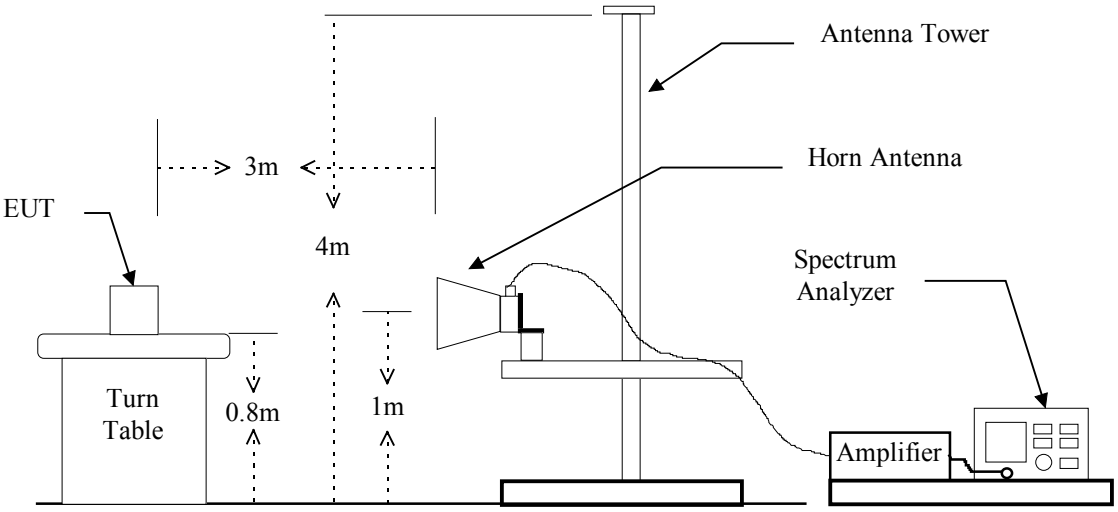


Figure 5 : Frequencies measured above 1 GHz configuration



10.3 Measuring Instrument

The following instrument are used for radiated emissions measurement :

Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
EMI Receiver	R&S	ESIB 7	100328	07/23/2008
BiLog Antenna	Schaffner	CBL 6112B	2927	07/04/2008
Horn Antenna	EMCO	3115	9107-3729	06/06/2008
PRE-Amplifier	Agilent	8449B	3008A01648	09/20/2008
Spectrum Analyzer	R&S	FSU46	13040904-001	11/23//2008
Spectrum Analyzer	Agilent	8564EC	4123A00585	10/10/2008

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution Bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	300 kHz
	Spectrum Analyzer	Peak	120 kHz	300 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10 Hz

10.4 Radiated Emission Data

10.4.1 Harmonic

10.4.1.1 IEEE 802.11b
Operation Mode: TX
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

a) Channel 1
Fundamental Frequency: 2412 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4824.000	---	---	---	---	0.5	---	---	74.0	54.0
12060.000	---	---	---	---	5.8	---	---	74.0	54.0
14472.000	---	---	---	---	10.5	---	---	74.0	54.0
19296.000	---	---	---	---	13.3	---	---	74.0	54.0

b) Channel 6
Fundamental Frequency: 2437 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4874.000	---	---	---	---	0.5	---	---	74.0	54.0
7311.000	---	---	---	---	3.7	---	---	74.0	54.0
12185.000	---	---	---	---	5.8	---	---	74.0	54.0
19496.000	---	---	---	---	13.3	---	---	74.0	54.0

c) Channel 11
Fundamental Frequency: 2462 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4924.000	---	---	---	---	0.5	---	---	74.0	54.0
7386.000	---	---	---	---	3.7	---	---	74.0	54.0
12310.000	---	---	---	---	5.8	---	---	74.0	54.0
19696.000	---	---	---	---	13.3	---	---	74.0	54.0
22158.000	---	---	---	---	13.5	---	---	74.0	54.0

Note :
1. Item of margin shown in above table refer to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

10.4.1.2 IEEE 802.11g
Operation Mode: TX
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

a) Channel 1
Fundamental Frequency: 2412 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4824.000	---	---	---	---	0.5	---	---	74.0	54.0
12060.000	---	---	---	---	5.8	---	---	74.0	54.0
14472.000	---	---	---	---	10.5	---	---	74.0	54.0
19296.000	---	---	---	---	13.3	---	---	74.0	54.0

b) Channel 6
Fundamental Frequency: 2437 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4874.000	---	---	---	---	0.5	---	---	74.0	54.0
7311.000	---	---	---	---	3.7	---	---	74.0	54.0
12185.000	---	---	---	---	5.8	---	---	74.0	54.0
19496.000	---	---	---	---	13.3	---	---	74.0	54.0

c) Channel 11
Fundamental Frequency: 2462 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4924.000	---	---	---	---	0.5	---	---	74.0	54.0
7386.000	---	---	---	---	3.7	---	---	74.0	54.0
12310.000	---	---	---	---	5.8	---	---	74.0	54.0
19696.000	---	---	---	---	13.3	---	---	74.0	54.0
22158.000	---	---	---	---	13.5	---	---	74.0	54.0

Note :

1. Item of margin shown in above table refer to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

10.4.1.3 IEEE 802.11n, HT20
Operation Mode: TX
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

a) Channel 1
Fundamental Frequency: 2412 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4824.000	---	---	---	---	0.5	---	---	74.0	54.0
12060.000	---	---	---	---	5.8	---	---	74.0	54.0
14472.000	---	---	---	---	10.5	---	---	74.0	54.0
19296.000	---	---	---	---	13.3	---	---	74.0	54.0

b) Channel 6
Fundamental Frequency: 2437 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4874.000	---	---	---	---	0.5	---	---	74.0	54.0
7311.000	---	---	---	---	3.7	---	---	74.0	54.0
12185.000	---	---	---	---	5.8	---	---	74.0	54.0
19496.000	---	---	---	---	13.3	---	---	74.0	54.0

c) Channel 11
Fundamental Frequency: 2462 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4924.000	---	---	---	---	0.5	---	---	74.0	54.0
7386.000	---	---	---	---	3.7	---	---	74.0	54.0
12310.000	---	---	---	---	5.8	---	---	74.0	54.0
19696.000	---	---	---	---	13.3	---	---	74.0	54.0
22158.000	---	---	---	---	13.5	---	---	74.0	54.0

Note :
1. Item of margin shown in above table refer to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

10.4.1.4 IEEE 802.11n, HT40
Operation Mode: TX
Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

a) Channel 3
Fundamental Frequency: 2422 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4844.000	---	---	---	---	0.5	---	---	74.0	54.0
7266.000	---	---	---	---	5.8	---	---	74.0	54.0
12110.000	---	---	---	---	10.5	---	---	74.0	54.0
19376.000	---	---	---	---	13.3	---	---	74.0	54.0

b) Channel 6
Fundamental Frequency: 2437 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4874.000	---	---	---	---	0.5	---	---	74.0	54.0
7311.000	---	---	---	---	3.7	---	---	74.0	54.0
12185.000	---	---	---	---	5.8	---	---	74.0	54.0
19496.000	---	---	---	---	13.3	---	---	74.0	54.0

c) Channel 9
Fundamental Frequency: 2452 MHz

Frequency	Reading (dBuV)				Factor	Result @3m		Limit @3m	
	H		V		(dB)	(dBuV/m)		(dBuV/m)	
(MHz)	Peak	Ave	Peak	Ave	Corr.	Peak	Ave	Peak	Ave.
4904.000	---	---	---	---	0.5	---	---	74.0	54.0
7356.000	---	---	---	---	3.7	---	---	74.0	54.0
12260.000	---	---	---	---	5.8	---	---	74.0	54.0
19616.000	---	---	---	---	13.3	---	---	74.0	54.0
22068.000	---	---	---	---	13.5	---	---	74.0	54.0

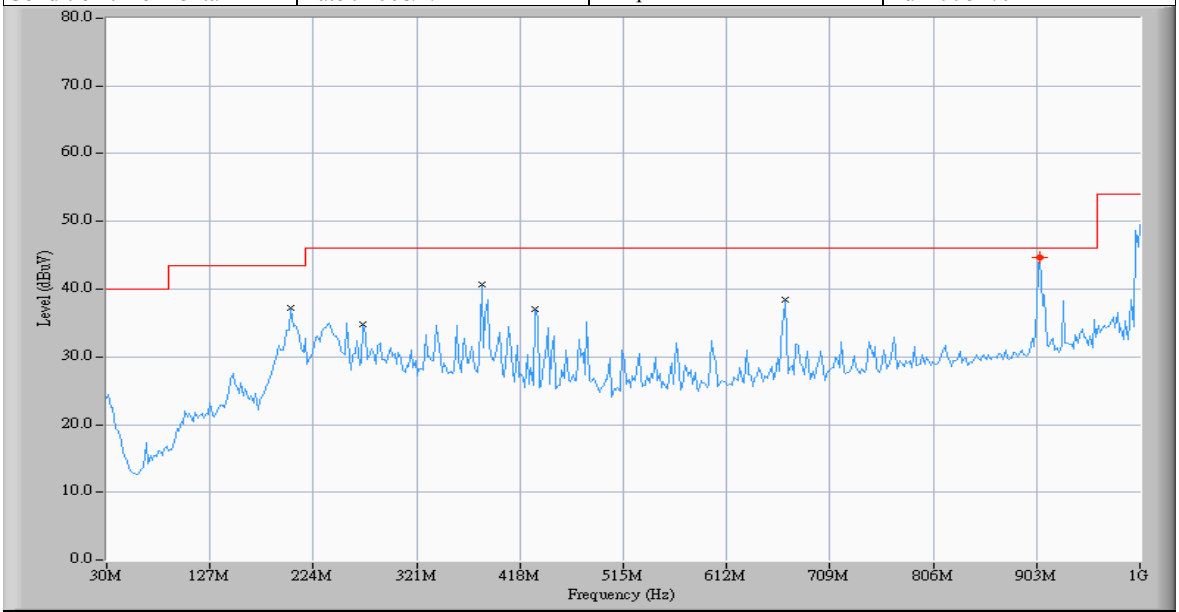
Note :

1. Item of margin shown in above table refer to average limit.
2. Remark "---" means that the emissions level is too low to be measured.

10.4.2 Spurious Emission

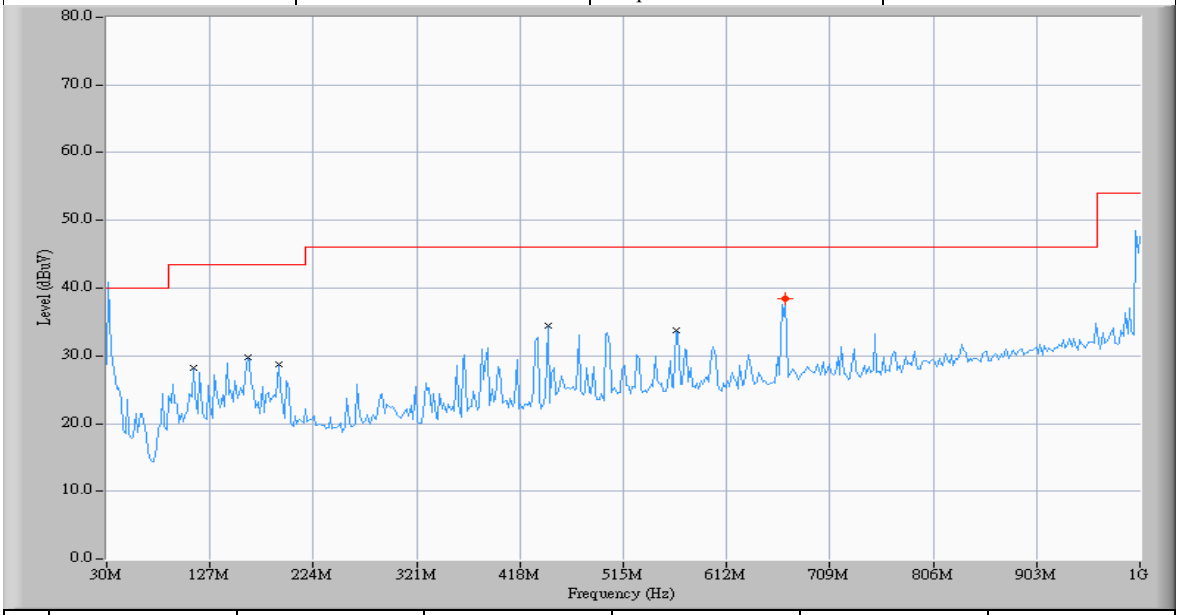
a) Emission frequencies below 1 GHz

EUT : WLAN 11n Dongle	Model : WL-6200C	Status : Operation Mode	
Condition : Horizontal	Date : 2008/4/24	Temp. : 23℃	Humi. : 52%



	Freq (MHz)	QP Level (dBuV)	Factor (dB/m)	QP Result (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)
1	203.006	24.6	12.7	37.3	43.5	-6.2
2	271.042	18.6	16.2	34.8	46.0	-11.2
3	381.844	21.1	19.6	40.7	46.0	-5.3
4	432.385	16.3	20.7	37.0	46.0	-9.0
5	667.595	13.9	24.6	38.5	46.0	-7.5
6	906.693	17.0	27.7	44.7	46.0	-1.3

EUT : WLAN 11n Dongle	Model : WL-6200C	Status : Operation Mode	
Condition : Vertical	Date : 2008/4/24	Temp. : 23℃	Humi. : 52%



	Freq (MHz)	QP Level (dBuV)	Factor (dB/m)	QP Result (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)
1	111.643	14.1	14.1	28.2	43.5	-15.3
2	162.184	17.7	12.0	29.7	43.5	-13.8
3	191.343	16.7	12.1	28.8	43.5	-14.7
4	444.048	13.6	20.9	34.5	46.0	-11.5
5	564.569	10.4	23.3	33.7	46.0	-12.3
6	667.595	13.8	24.6	38.4	46.0	-7.6

b) Emission frequencies above 1 GHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)
Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured.						

Note:

1. Place of Measurement: Measuring site of the ETC.
2. If the data table appeared symbol of "***" means the value was too low to be measured.
3. The estimated measurement uncertainty of the result measurement is
   ±4.6dB (30MHz≦f<300MHz).
   ±4.4dB (300MHz≦f≦1000MHz).

10.4.2.5 IEEE 802.11b

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Operation Mode: TX

Operation Channel	Test Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.
1	2390.000	17.11	6.00	16.37	5.73	30.3	47.41	36.30	74.0	54.0
11	2483.500	17.92	5.99	16.22	5.21	30.3	48.22	36.29	74.0	54.0

10.4.2.6 IEEE 802.11g

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Operation Mode: TX

Operation Channel	Test Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.
1	2390.000	16.73	4.38	16.28	3.21	30.3	47.03	34.68	74.0	54.0
11	2483.500	16.65	4.71	16.49	3.89	30.3	46.95	35.07	74.0	54.0

Note :

1. Remark "---" means that the emissions level is too low to be measured.
2. The result is the highest value of radiated emission from restrict band of 2310 ~ 2390 MHz and 2483.5 ~ 2500 MHz.

10.4.2.7 IEEE 802.11n, HT20

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Operation Mode: TX

Operation Channel	Test Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.
1	2390.000	16.73	4.75	16.66	4.28	30.3	47.03	35.05	74.0	54.0
11	2483.500	16.94	4.92	16.28	4.38	30.3	47.24	35.22	74.0	54.0

10.4.2.8 IEEE 802.11n, HT40

Test Date: May 12, 2008 Temperature: 24℃ Humidity: 52%

Operation Mode: TX

Operation Channel	Test Frequency (MHz)	Reading (dBuV) H Peak	H Ave	V Peak	V Ave	Factor (dB) Corr.	Result @3m (dBuV/m) Peak	Result @3m (dBuV/m) Ave	Limit @3m (dBuV/m) Peak	Limit @3m (dBuV/m) Ave.
3	2390.000	17.32	5.44	16.91	4.98	30.3	47.62	35.74	74.0	54.0
9	2483.500	17.29	5.87	17.13	5.11	30.3	47.59	36.17	74.0	54.0

Note :

1. Remark "---" means that the emissions level is too low to be measured.
2. The result is the highest value of radiated emission from restrict band of 2310 ~ 2390 MHz and 2483.5 ~ 2500 MHz.

10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, High Pass Filter Loss(if used) and Cable Loss, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

where

Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain