



# FCC PART 15C/IC RSS-210 TEST REPORT

No. 2013WLN0839

for

**Sony Mobile Communications AB**

**GSM/WCDMA/LTE mobile phone**

**Type: PM-0762-BV**

**FCC ID: PY7PM-0762**

With

**Hardware Version: AP1**

**Software Version: 19.0.A.0.250**

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**Note:** The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of TMC Beijing.

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## 1. TEST LATORATORY

### 1.1. Testing Location

Company Name: TMC Beijing, Telecommunication Metrology Center of MIIT  
Address: No. 52, Huayuan Bei Road, Haidian District, Beijing, P. R. China  
Postal Code: 100191  
Telephone: +86-10-62304633-2561  
Fax: +86-10-62304633-2504

### 1.2. Project data

Testing Start Date: 2013-12-27  
Testing End Date: 2014-01-06

### 1.3. Signature



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Xu Zhongfei  
(Prepared this test report)



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Jiang Afang  
(Reviewed this test report)



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Xiao Li  
Deputy Director of the laboratory  
(Approved this test report)

## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Sony Mobile Communications AB  
Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,  
Chaoyang District  
City: Beijing  
Postal Code: 100102  
Country: China  
Contact Person: Ma, Gang  
Telephone: +86-10-58656312  
Fax: +86-10-58659049

### **2.2. Manufacturer Information**

Company Name: Sony Mobile Communications AB  
Address /Post: Sony Mobile R&D Center, No. 16, Guangshun South Street,  
Chaoyang District  
City: Beijing  
Postal Code: 100102  
Country: China  
Contact Person: Ma, Gang  
Telephone: +86-10-58656312  
Fax: +86-10-58659049

### **3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY**

#### **EQUIPMENT(AE)**

##### **3.1. About EUT**

Description	GSM 850/900/1800/1900 quad bands, GPRS, EDGE, WCDMA FDD bands 1/5/8, HSDPA, HSUPA, LTE FDD bands 1/3/5/7/8/20 Bluetooth (EDR and 4.0), ANT+, WLAN ( 802.11 a/b/g/n), NFC, FM, GPS mobile phone
Type	PM-0762-BV
FCC ID	PY7PM-0762
WLAN Frequency Range	ISM Band: 2400MHz~2483.5MHz
Type of modulation	DSSS/CCK/OFDM
Number of Channels	11
Antenna	Internal
MAX Conducted Power	22.22dBm(OFDM)
MAX Radiated Power	23.38dBm(OFDM)
Extreme Temperature	-20/+55°C
Extreme vol. Limits	3.5VDC to 4.1VDC (nominal: 3.7VDC)

Note: Photographs of EUT are shown in ANNEX C of this test report. Components list, please refer to documents of the manufacturer; it is also included in the original test record of Telecommunication Metrology Center of MIIT of People's Republic of China.

##### **3.2. Internal Identification of EUT used during the test**

<b>EUT ID*</b>	<b>S/N</b>	<b>IMEI</b>	<b>HW Version</b>	<b>SW Version</b>
EUT1	CB512686FD	004402451819274	AP1	19.0.A.0.250
EUT2	CB512686RD	004402451819183	AP1	19.0.A.0.250

\*EUT ID: is used to identify the test sample in the lab internally.

##### **3.3. Internal Identification of AE used during the test**

<b>AE ID*</b>	<b>Description</b>	<b>Type</b>	<b>SN</b>
AE1	Travel Charger	AC-0400-EU	4413W 18 511285
AE2	USB Cable	AI-0401	131307D20BE8904

\*AE ID: is used to identify the test sample in the lab internally.

##### **3.4. General Description**

The Equipment Under Test (EUT) is a model of GSM/WCDMA/LTE Mobile Phone with integrated antenna and inbuilt battery.

The EUT supports GSM 850/900/1800/1900MHz bands, WCDMA FDD bands 1/5/8 and LTE FDD bands 1/3/5/7/8/20. It supports GPRS service with multi-slots class 33 and EGPRS service with multi-slots class 33. The HSDPA and HSUPA (Cat 6) features are also supported.

It has MP3, camera, USB memory, Mobile High-Definition Link (MHL), FM radio, GPS receiver, NFC, Bluetooth (EDR and Bluetooth 4.0), ANT+, WLAN (802.11 a/b/g/n) and Wi-Fi hotspot functions. For WLAN 802.11n, it supports 20MHz and 40MHz bandwidths on both 2.4GHz band and 5GHz/5.8GHz band.

It includes normal option: USB cable.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

## **4. REFERENCE DOCUMENTS**

### **4.1. Documents supplied by applicant**

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

	FCC CFR 47, Part 15, Subpart C:	
	15.205 Restricted bands of operation;	
FCC Part15	15.209 Radiated emission limits, general requirements;	Oct,
	15.247 Operation within the bands 902–928MHz,	2012
	2400–2483.5 MHz, and 5725–5850 MHz.	
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2009
RSS-GEN	Spectrum Management and Telecommunications - Radio Standards Specification	Issue 3
	General Requirements and Information for the Certification of Radio communication Equipment	
RSS-210	Spectrum Management and Telecommunications - Radio Standards Specification	Issue 8
	Low-power License-exempt Radio communication Devices (All Frequency Bands): Category I Equipment	

## **5. LABORATORY ENVIRONMENT**

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

## 6. SUMMARY OF TEST RESULTS

### 6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247 (b)	A8	<b>P</b>
Peak Power Spectral Density	15.247 (e)	A8	<b>P</b>
Occupied 6dB Bandwidth	15.247 (a)	A8	<b>P</b>
99% Occupied Bandwidth	/	RSS-Gen 4.6.1	<b>P</b>
Band Edges Compliance	15.247 (d)	A8	<b>P</b>
Transmitter Spurious Emission - Conducted	15.247 (d)	A8	<b>P</b>
Transmitter Spurious Emission - Radiated	15.247, 15.209	A8	<b>P</b>
Transmitter Spurious Emission - Radiated<30MHz	15.247, 15.209	A8	<b>P</b>
AC Powerline Conducted Emission	15.107, 15.207	7.2	<b>P</b>

Please refer to **ANNEX A** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by TMC
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

### 6.2. Statements

TMC has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

### 6.3. Test Conditions

For this report, all the test cases are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	26°C
Voltage	3.7V
Humidity	44%

## 7. TEST EQUIPMENTS UTILIZED

### Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	2013-07-08	2014-07-07
2	Test Receiver	ESS	847151/015	Rohde & Schwarz	2013-10-30	2014-10-29
3	LISN	ESH2-Z5	829991/012	Rohde & Schwarz	2013-4-15	2014-08-12
4	Shielding Room	S81	/	ETS-Lindgren	/	/

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration date	Calibration Due date
1	Test Receiver	ESCI	100344	Rohde & Schwarz	2013-11-8	2014-11-7
2	Test Receiver	ESCI 7	100948	Rohde & Schwarz	2013-07-19	2014-07-18
3	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2011-11-11	2014-11-10
4	Dual-Ridge Waveguide Horn Antenna	3117	00119024	ETS-Lindgren	2011-2-2	2014-2-1
5	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2011-7-1	2014-06-30
6	Loop antenna	HFH2-Z2	829324/007	Rohde & Schwarz	2011-12-21	2014-12-20
7	Semi-anechoic chamber	/	CT000332-1074	Frankonia German	/	/

## ANNEX A: MEASUREMENT RESULTS

### A.1. Measurement Method

#### A.1.1. Conducted Measurements

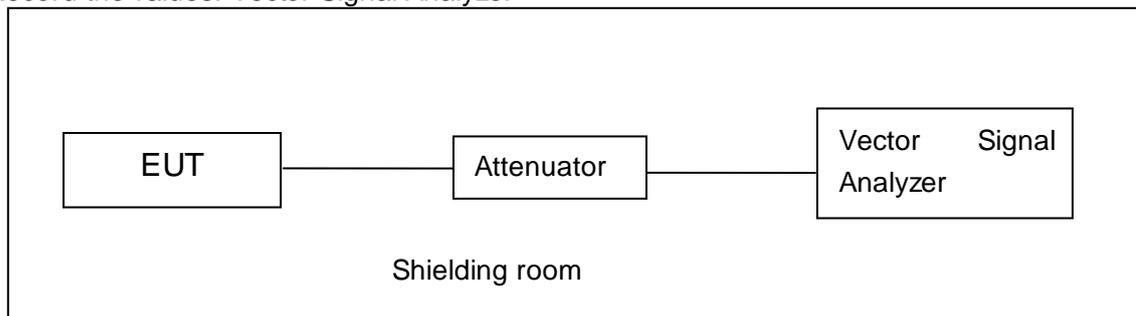
Connect the EUT to the test system as follow shows.

Set the EUT to the required work mode.

Set the EUT to the required channel.

Set the Vector Signal Analyzer and start measurement.

Record the values. Vector Signal Analyzer

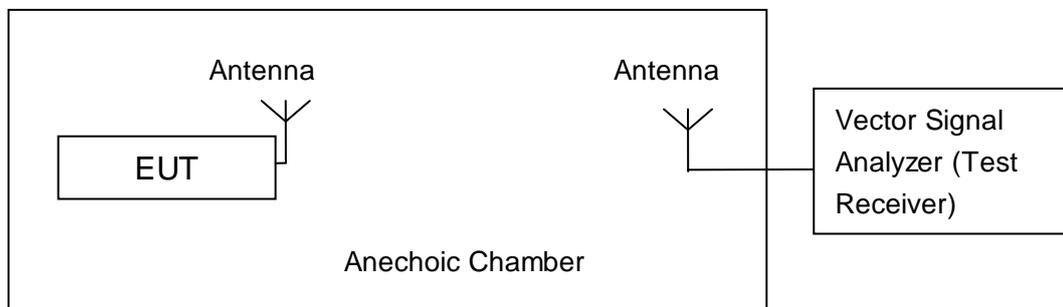


#### A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,

Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;

Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to ANSI C63.10

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.

## A.2. Maximum Peak Output Power

### Measurement Limit and Method:

Standard	Limit (dBm)
FCC CRF Part 15.247(b)	< 30

The measurement is made according to ANSI C63.10.

### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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### A.2.1. Antenna Gain

The antenna gain of the complete system is calculated by the difference of radiated power and the conducted power of the EUT.

Test	Channel		
	Low	Middle	High
Tnom,Vnom			
<b>Conducted Power(dBm)</b>	17.75	17.56	17.33
<b>Radiated Power(dBm)</b>	18.91	18.60	18.81
<b>Gain(dBi)</b>	1.16	1.04	1.48

Antenna Gain = Radiated value (with radiated sample) - Conducted values (with conducted samples)

### A.2.2. Maximum Peak Output Power-conducted

#### Measurement Results:

#### 802.11b mode

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11b	1	19.26	/	/
	2	19.45	/	/
	5.5	21.02	/	/
	11	22.22	21.82	21.35

The data rate 11Mbps is selected as worse condition, and the following cases are performed with this condition.

**802.11g mode**

Mode	Data Rate (Mbps)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11g	6	18.05	/	/
	9	18.08	/	/
	12	17.93	/	/
	18	17.97	/	/
	24	18.37	/	/
	36	18.36	/	/
	48	18.43	/	/
	54	18.45	17.62	16.99

The data rate 54Mbps is selected as worse condition, and the following cases are performed with this condition.

**802.11n-HT20 mode**

Mode	Data Rate (Index)	Test Result (dBm)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462 MHz (Ch11)
802.11n (20MHz)	MCS0	18.08	/	/
	MCS1	17.97	/	/
	MCS2	17.92	/	/
	MCS3	18.33	/	/
	MCS4	18.39	/	/
	MCS5	18.44	/	/
	MCS6	18.46	/	/
	MCS7	18.48	17.68	17.03

The data rate MCS7 is selected as worse condition, and the following cases are performed with this condition.

**802.11n-HT40 mode**

Mode	Data Rate (Index)	Test Result (dBm)		
		2422MHz (Ch3)	2437MHz (Ch6)	2452 MHz (Ch9)
802.11n (40MHz)	MCS0	18.01	/	/
	MCS1	17.92	/	/
	MCS2	17.85	/	/
	MCS3	18.32	17.97	16.87
	MCS4	18.24	/	/
	MCS5	18.26	/	/
	MCS6	18.27	/	/
	MCS7	18.22	/	/

The data rate MCS3 is selected as worse condition, and the following cases are performed with this condition.

**Conclusion: PASS**

**A.2.3. Maximum Peak Output Power-Radiated**

**Measurement Results:**

Mode	Test Result (dBm)					
	Low channel		Middle channel		High channel	
	Conducted	Radiated	Conducted	Radiated	Conducted	Radiated
802.11b	22.22	23.38	21.82	22.86	21.35	22.83
802.11g	18.45	19.61	17.62	18.66	16.99	18.47
802.11n-HT20	18.48	19.64	17.68	18.72	17.03	18.51
802.11n-HT40	18.32	19.48	17.97	19.01	16.87	18.35

Radiated value = Conducted values (with conducted samples) + Antenna Gain.

**Conclusion: PASS**

**A.3. Peak Power Spectral Density**

**Measurement Limit:**

Standard	Limit
FCC CRF Part 15.247(e)	< 8 dBm/3 kHz

The measurement is made according to ANSI C63.10.

**Measurement Uncertainty:**

Measurement Uncertainty	0.75dB
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Note: Configuration information to be tested as follows:

Modulation type and data rate:

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	54Mbps(OFDM)	MCS7(OFDM)	MCS3(OFDM)

**Measurement Results:**

Mode	Channel	Power Spectral Density ( dBm/3 kHz )	Conclusion
802.11b	1	-8.34	P
	6	-9.26	P
	11	-8.31	P
802.11g	1	-16.15	P
	6	-16.45	P
	11	-17.40	P
802.11n-HT20	1	-15.04	P
	6	-16.63	P
	11	-17.09	P
802.11n-HT40	3	-18.44	P
	6	-18.06	P
	9	-20.79	P

**Conclusion: PASS**

**A.4. Occupied 6dB Bandwidth**

**Measurement Limit:**

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a)	≥ 500

The measurement is made according to ANSI C63.10.

**Measurement Uncertainty:**

Measurement Uncertainty	60.80Hz
-------------------------	---------

Note: Configuration information to be tested as follows:

Modulation type and data rate:

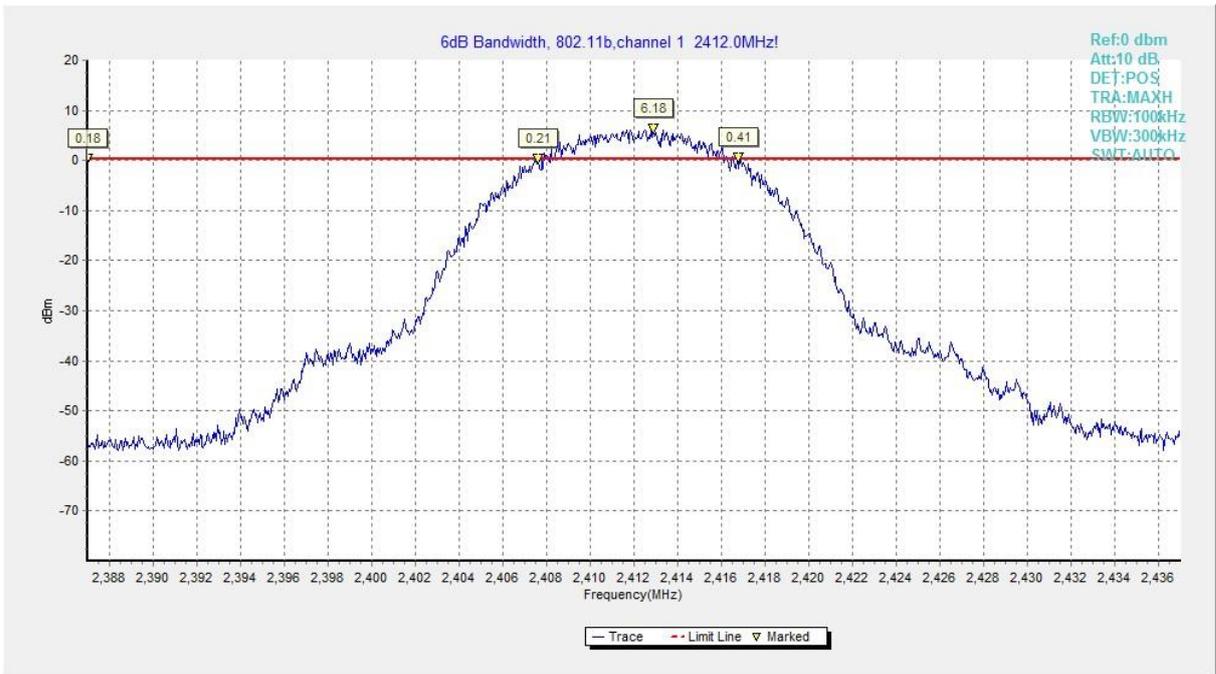
802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	54Mbps(OFDM)	MCS7(OFDM)	MCS3(OFDM)

**Measurement Result:**

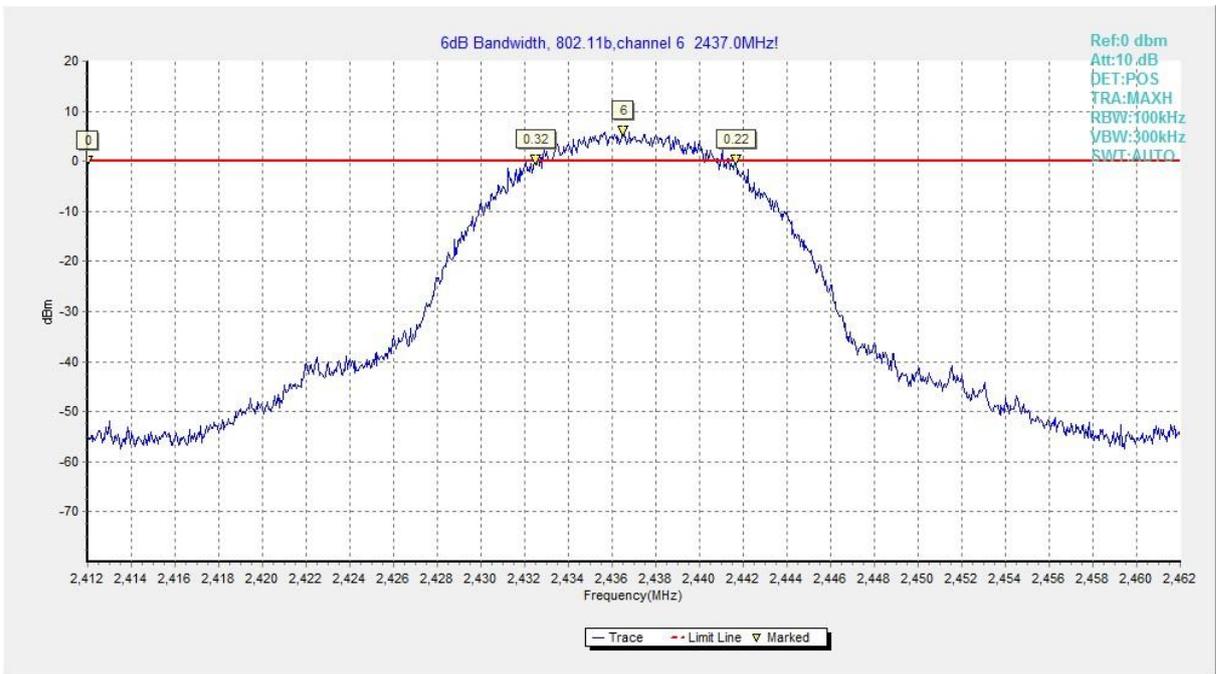
Mode	Channel	Occupied 6dB Bandwidth ( kHz)		conclusion
		Fig.A.4.x	Value	
802.11b	1	Fig.A.4.1	9200	P
	6	Fig.A.4.2	9150	P
	11	Fig.A.4.3	8700	P
802.11g	1	Fig.A.4.4	16400	P
	6	Fig.A.4.5	16450	P
	11	Fig.A.4.6	16400	P
802.11n-HT20	1	Fig.A.4.7	17650	P
	6	Fig.A.4.8	17650	P
	11	Fig.A.4.9	17600	P
802.11n-HT40	3	Fig.A.4.10	35120	P
	6	Fig.A.4.11	36000	P
	9	Fig.A.4.12	35280	P

**Conclusion: PASS**

**Test graphs as below:**



**Fig.A.4.1 Occupied 6dB Bandwidth (802.11b, Ch 1)**



**Fig.A.4.2 Occupied 6dB Bandwidth (802.11b, Ch 6)**

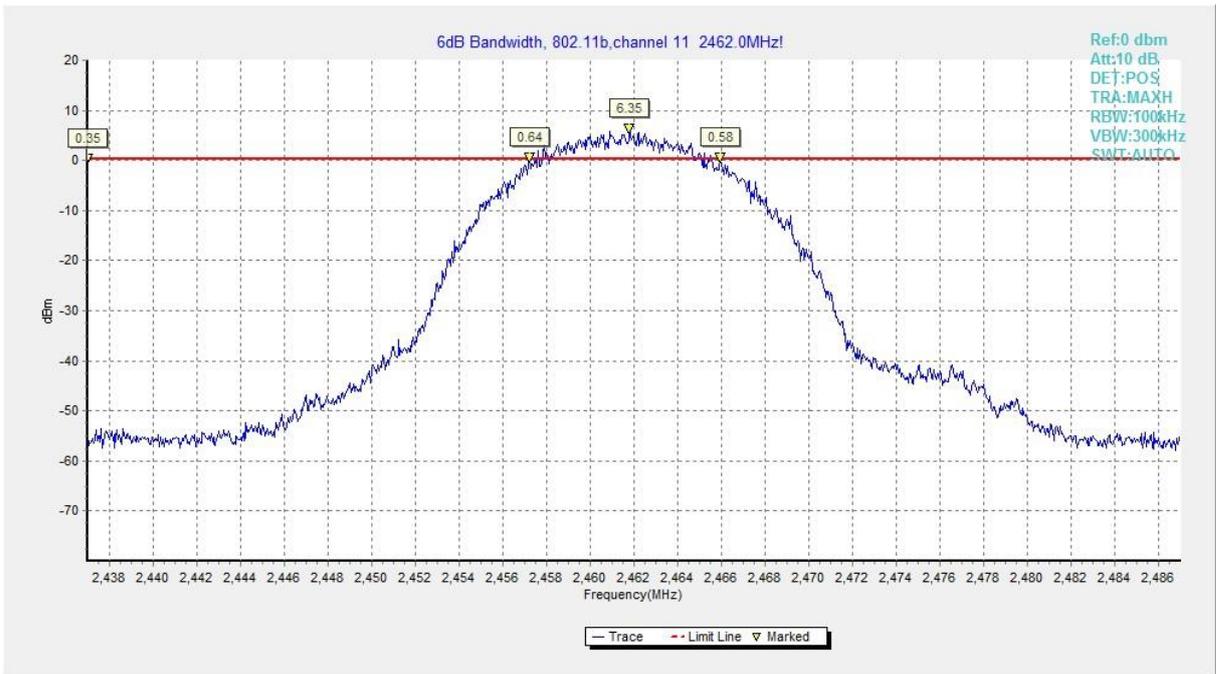


Fig.A.4.3 Occupied 6dB Bandwidth (802.11b, Ch 11)

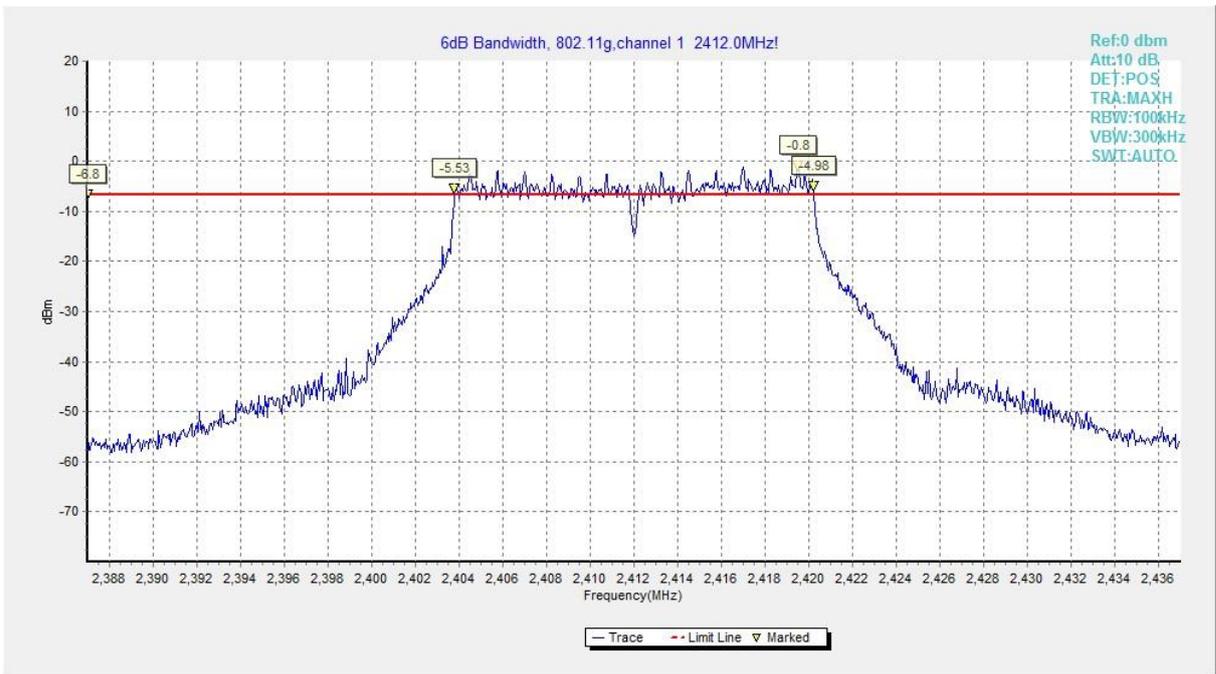


Fig.A.4.4 Occupied 6dB Bandwidth (802.11g, Ch 1)

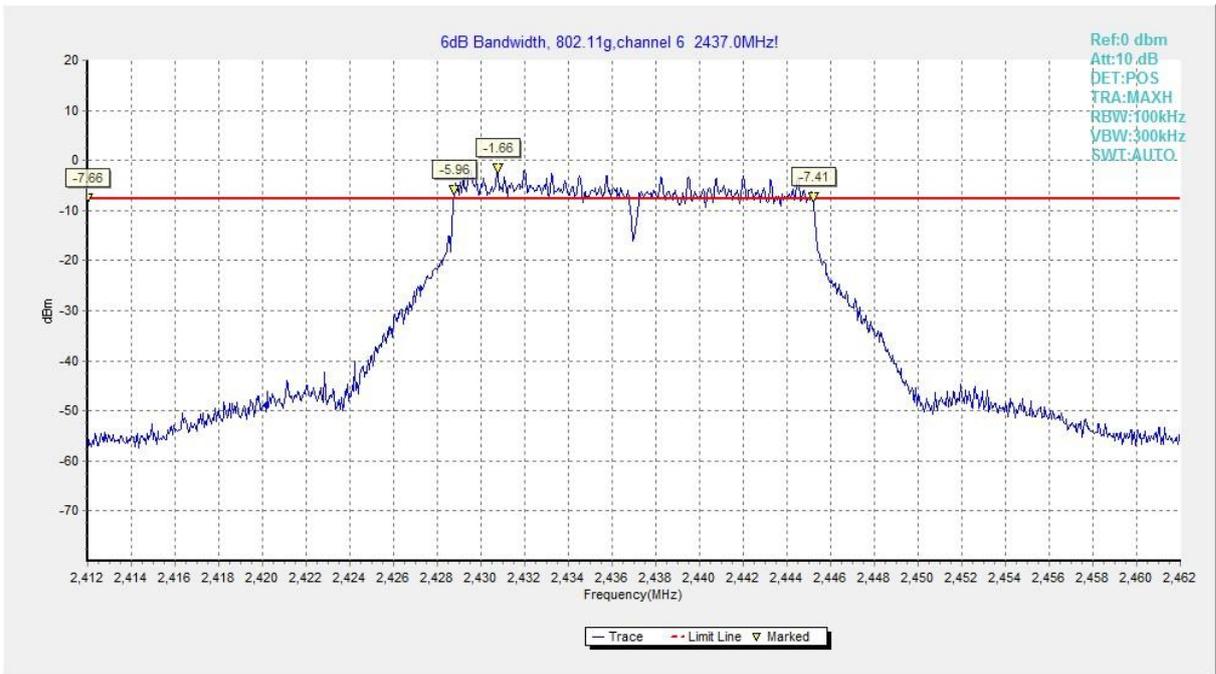


Fig.A.4.5 Occupied 6dB Bandwidth (802.11g, Ch 6)

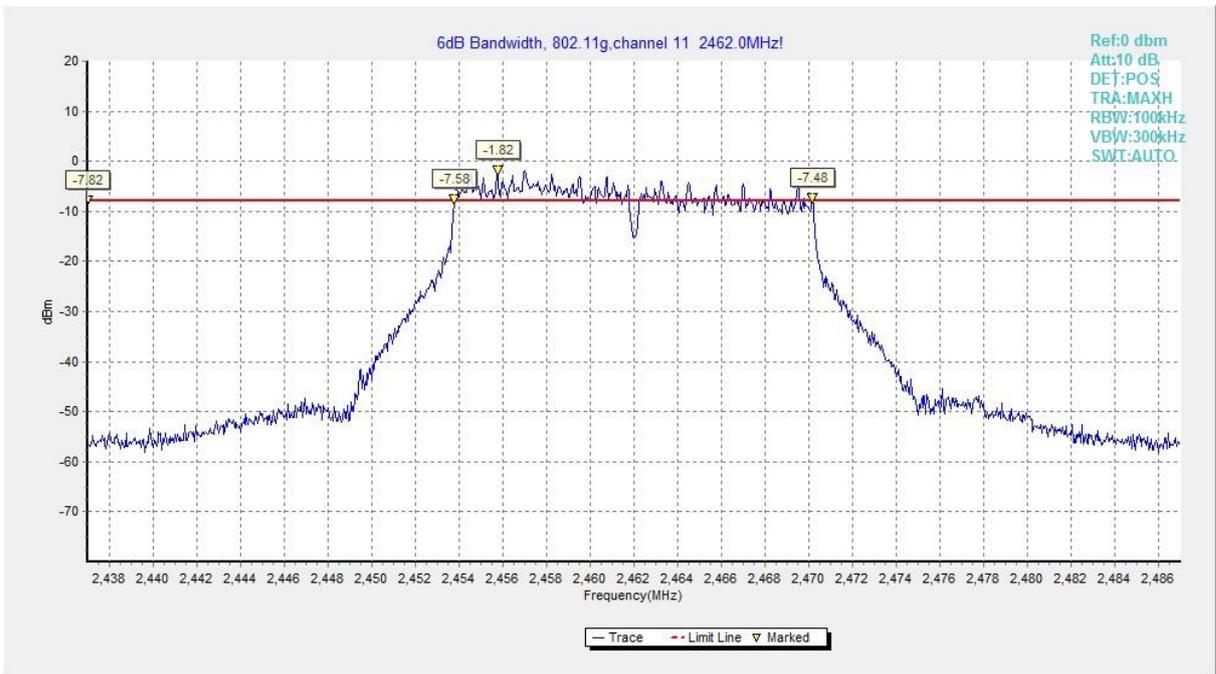


Fig.A.4.6 Occupied 6dB Bandwidth (802.11g, Ch 11)

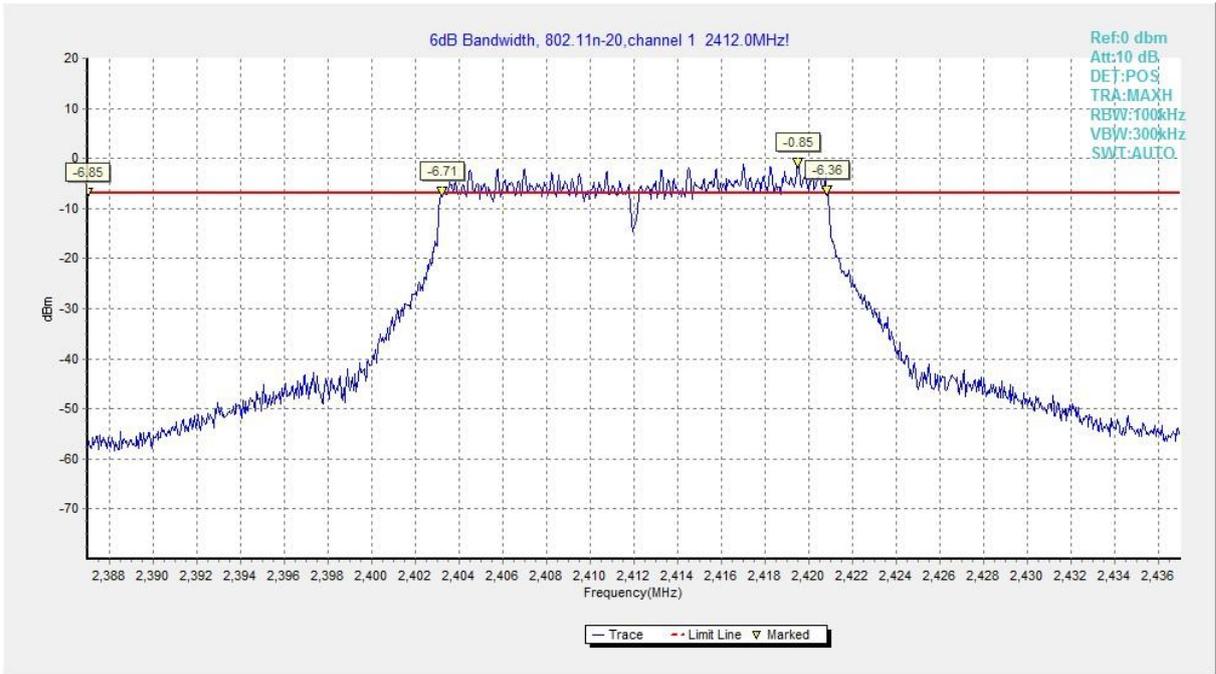


Fig.A.4.7 Occupied 6dB Bandwidth (802.11n-20MHz, Ch 1)

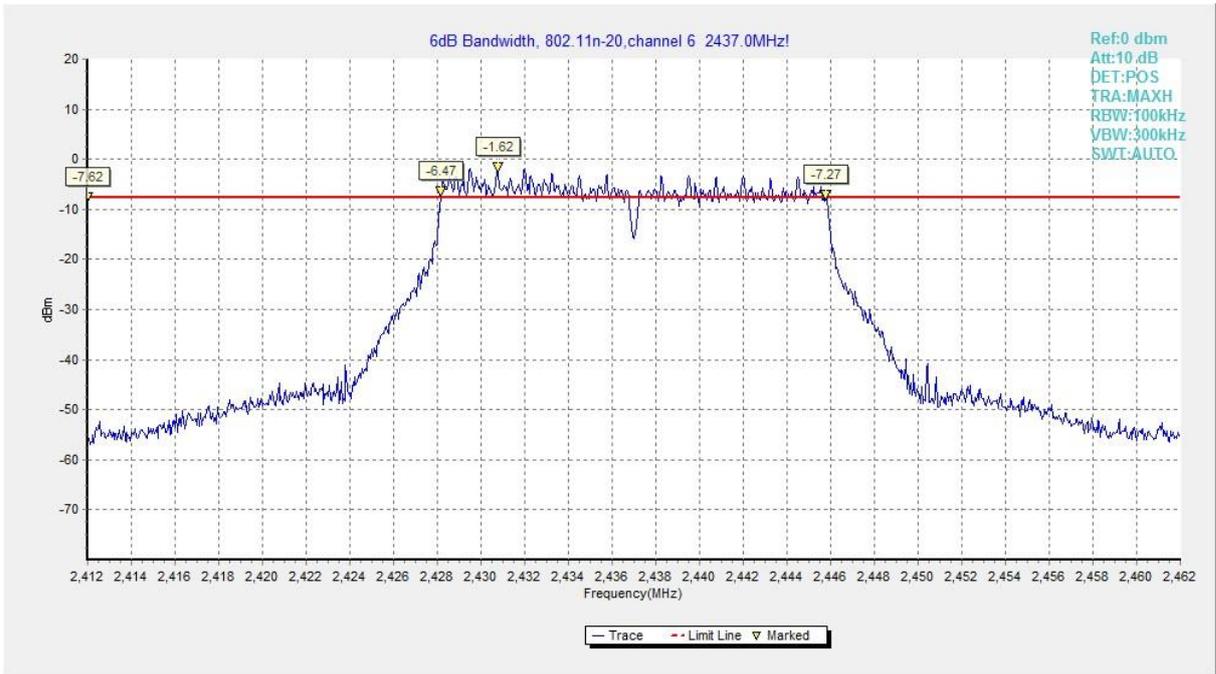
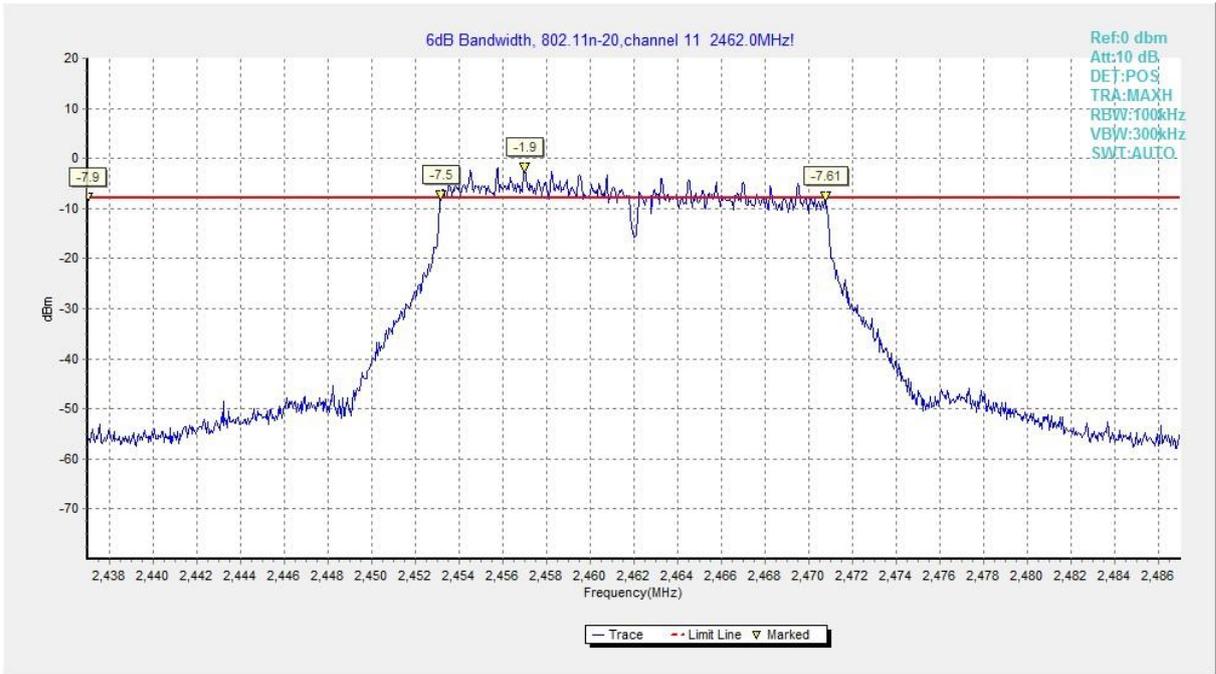
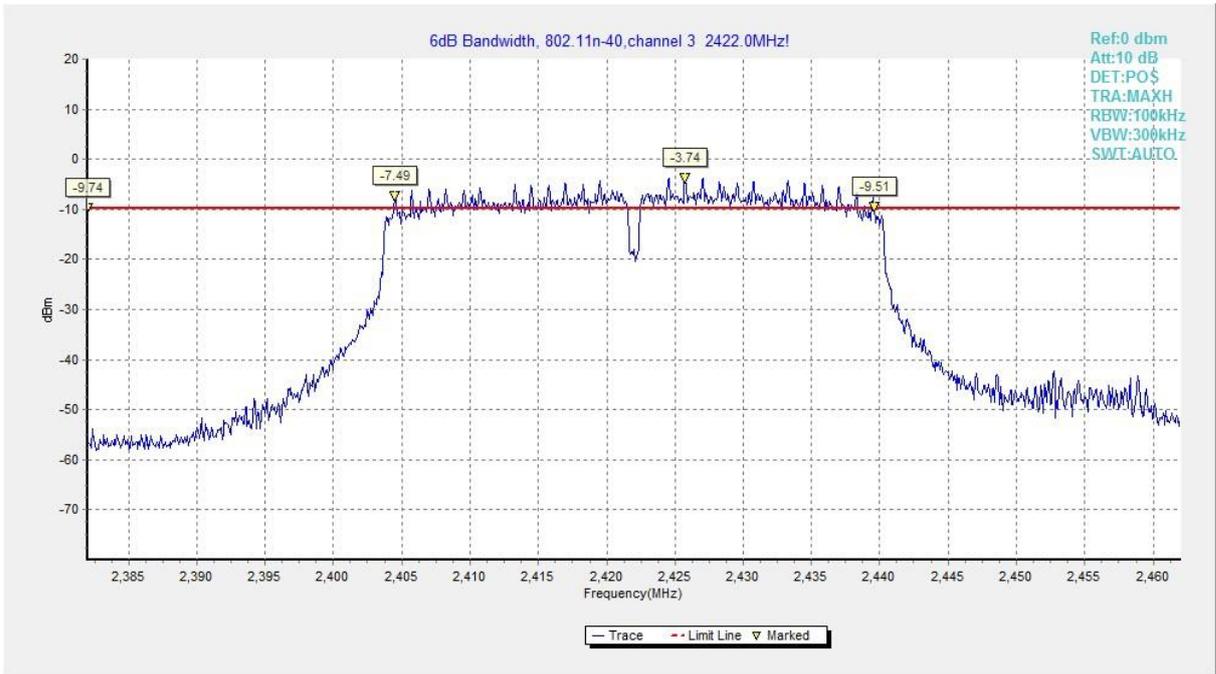


Fig.A.4.8 Occupied 6dB Bandwidth (802.11n-HT20, Ch 6)



**Fig.A.4.9 Occupied 6dB Bandwidth (802.11n-HT20, Ch 11)**



**Fig.A.4.10 Occupied 6dB Bandwidth (802.11n-40MHz, Ch 3)**

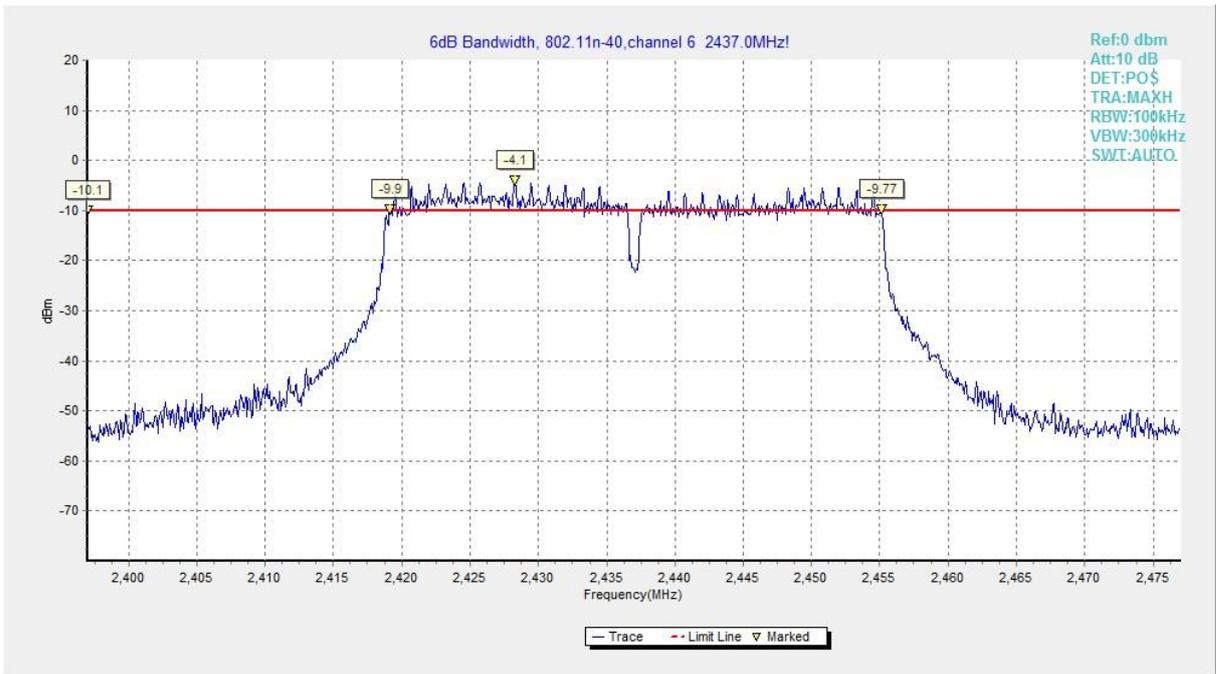


Fig.A.4.11 Occupied 6dB Bandwidth (802.11n-HT40, Ch 6)

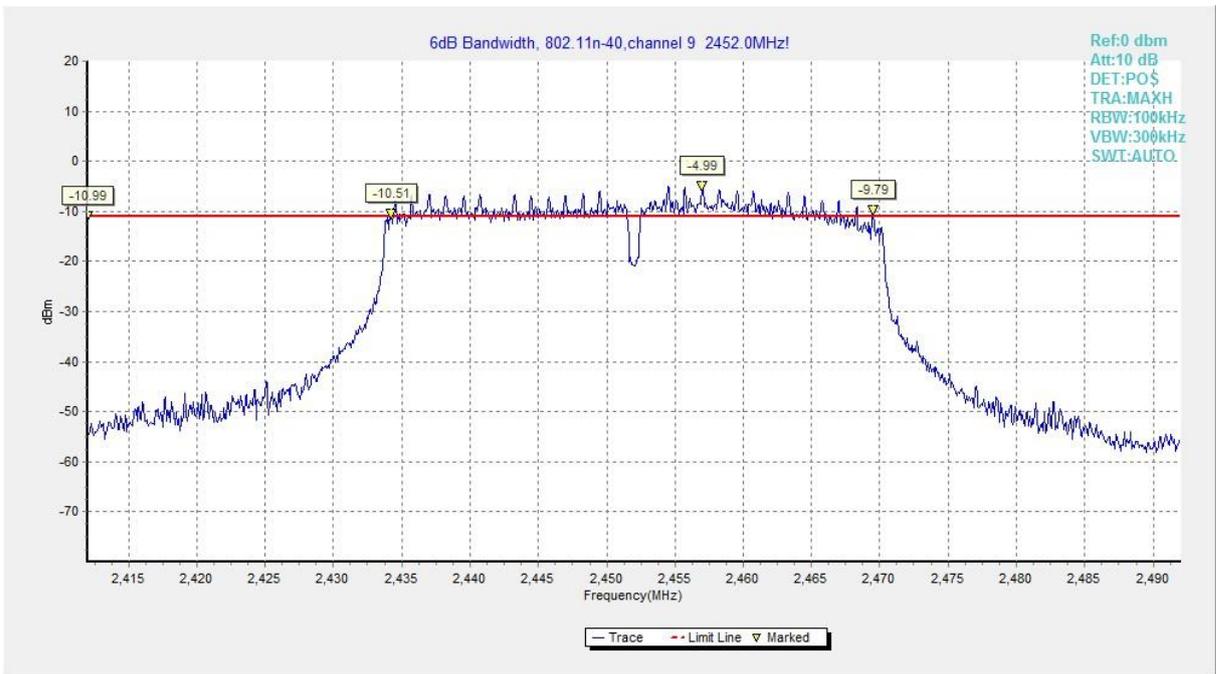


Fig.A.4.12 Occupied 6dB Bandwidth (802.11n-HT40, Ch 9)

## A.5 99% Occupied Channel Bandwidth

Reference : RSS-Gen 4.6.1

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

Note: Configuration information to be tested as follows:

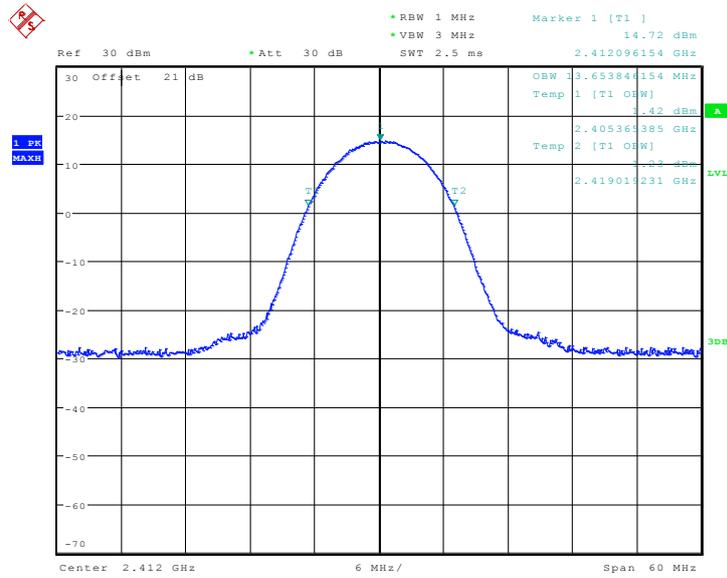
Modulation type and data rate:

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	54Mbps(OFDM)	MCS7(OFDM)	MCS3(OFDM)

Measurement Result:

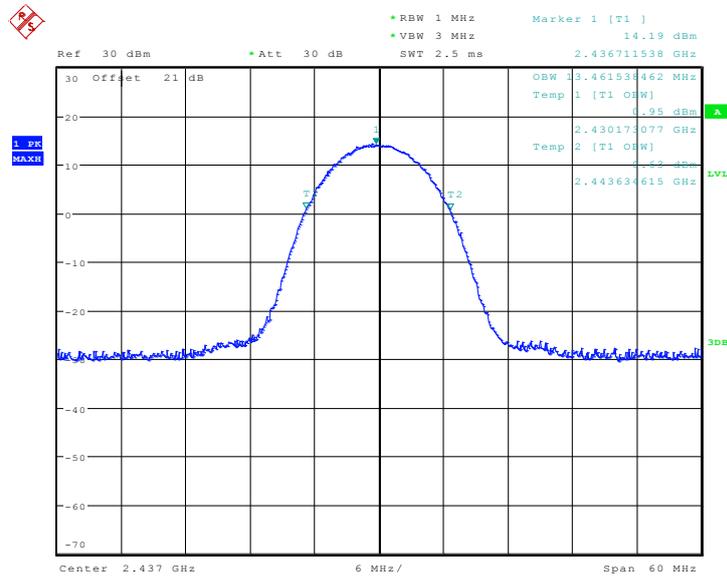
Mode	Channel	Occupied Bandwidth ( kHz)		Conclusion
		Fig.A.5.x	Value	
802.11b	1	Fig.A.5.1	13654	P
	6	Fig.A.5.2	13462	P
	11	Fig.A.5.3	13269	P
802.11g	1	Fig.A.5.4	18846	P
	6	Fig.A.5.5	18846	P
	11	Fig.A.5.6	18558	P
802.11n-HT20	1	Fig.A.5.7	19519	P
	6	Fig.A.5.8	19519	P
	11	Fig.A.5.9	19327	P
802.11n-HT40	3	Fig.A.5.10	36667	P
	6	Fig.A.5.11	37179	P
	9	Fig.A.5.12	36795	P

Conclusion: PASS



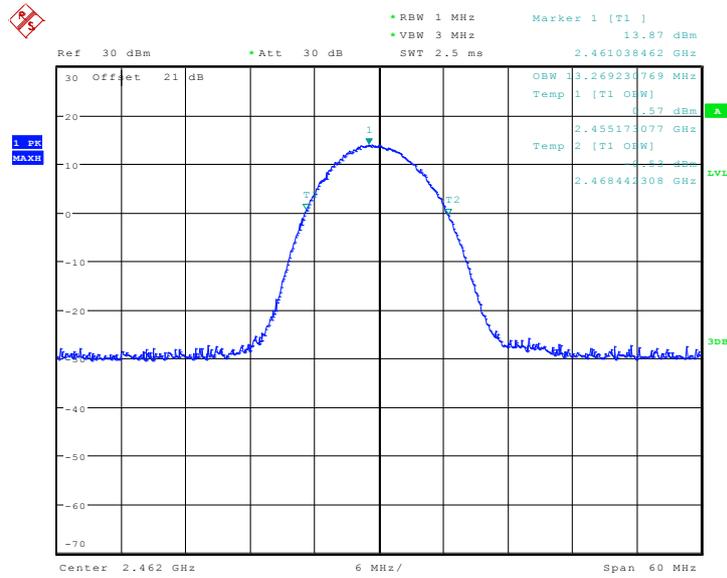
Date: 12..JAN.2014 14:18:29

**Fig.A.5.1 99% Occupied Bandwidth: (802.11b, Ch 1)**



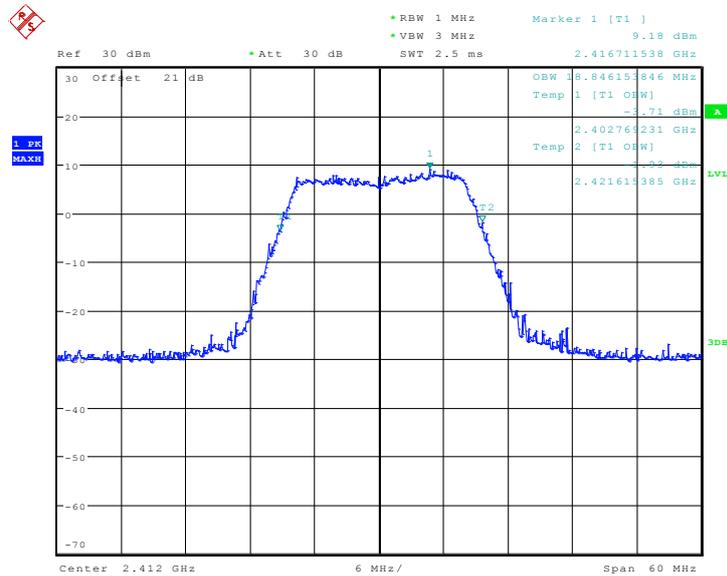
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**Fig.A.5.2 99% Occupied Bandwidth: (802.11b, Ch 6)**



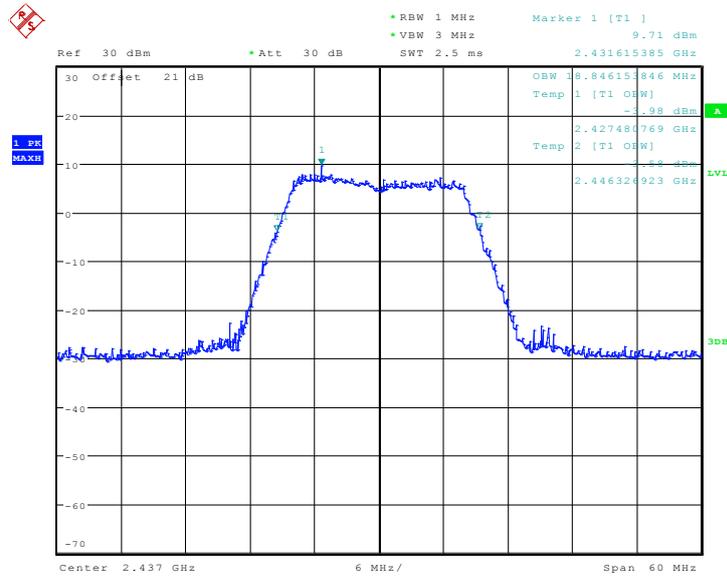
Date: 12..JAN.2014 14:20:17

**Fig.A.5.3 99% Occupied Bandwidth: (802.11b, Ch 11)**



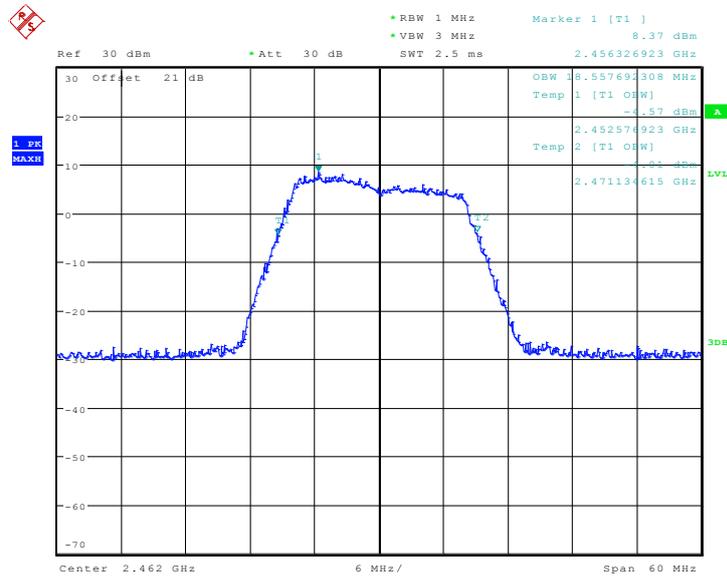
Date: 12.JAN.2014 14:21:43

**Fig.A.5.4 99% Occupied Bandwidth: (802.11g, Ch 1)**



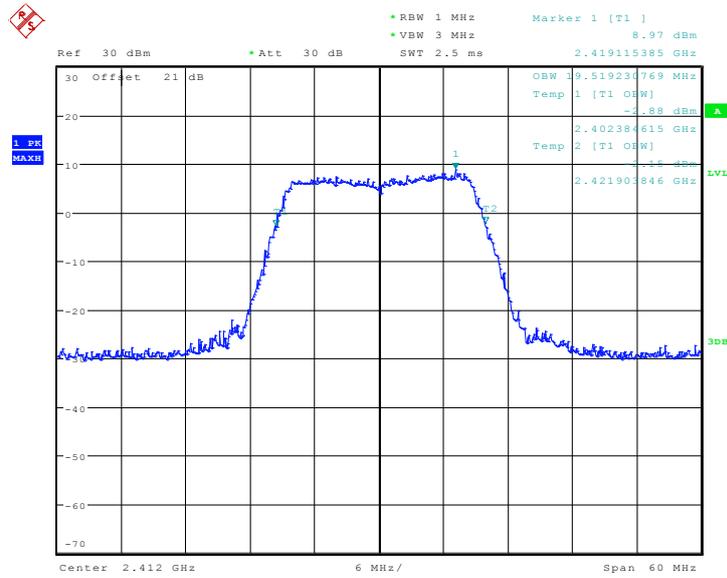
Date: 12..JAN..2014 14:23:06

**Fig.A.5.5 99% Occupied Bandwidth: (802.11g, Ch 6)**



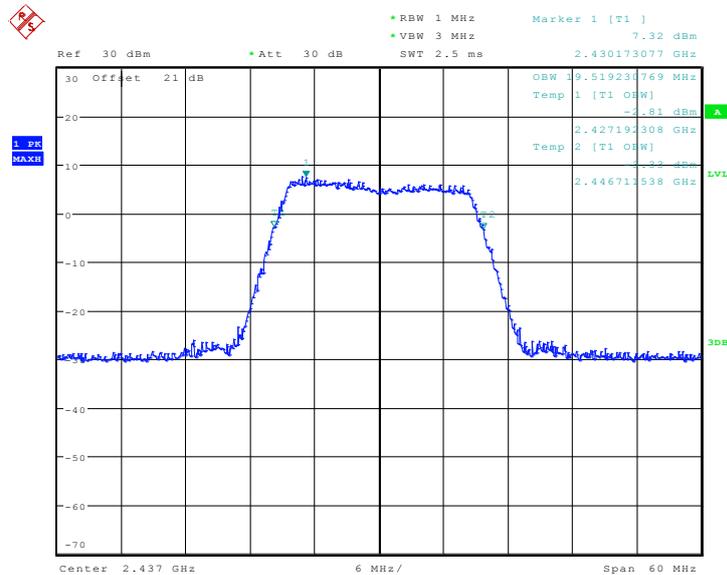
Date: 12.JAN.2014 14:24:07

**Fig.A.5.6 99% Occupied Bandwidth: (802.11g, Ch 11)**



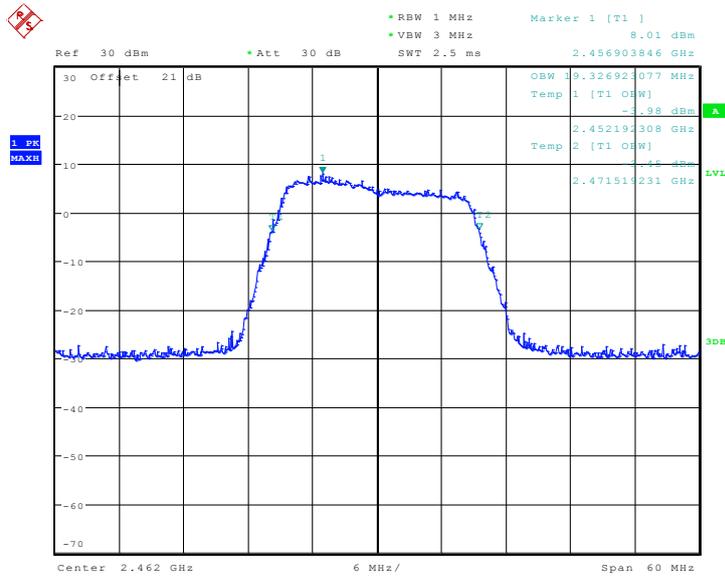
Date: 12..JAN.2014 14:25:30

**Fig.A.5.7 99% Occupied Bandwidth: (802.11n-HT20, Ch 1)**



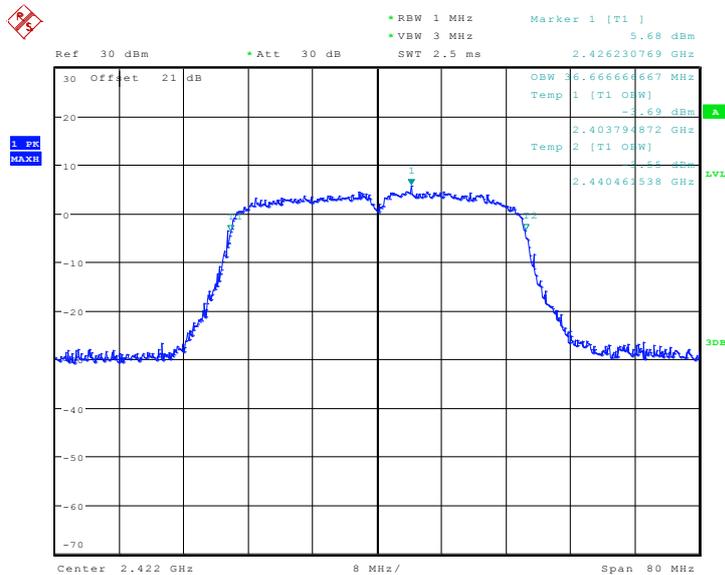
Date: 12..JAN.2014 14:26:22

**Fig.A.5.8 99% Occupied Bandwidth: (802.11n-HT20, Ch 6)**



Date: 12..JAN.2014 14:27:20

**Fig.A.5.9 99% Occupied Bandwidth: (802.11n-HT20, Ch 11)**



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**Fig.A.5.10 99% Occupied Bandwidth: (802.11n-HT40, Ch 3)**



## A.6. Band Edges Compliance

### Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	> 20

The measurement is made according to ANSI C63.10

### Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Note: Configuration information to be tested as follows:

Modulation type and data rate:

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	54Mbps(OFDM)	MCS7(OFDM)	MCS3(OFDM)

### Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.6.1	P
	11	Fig.A.6.2	P
802.11g	1	Fig.A.6.3	P
	11	Fig.A.6.4	P
802.11n-HT20	1	Fig.A.6.5	P
	11	Fig.A.6.6	P
802.11n-HT40	3	Fig.A.6.7	P
	9	Fig.A.6.8	P

**Conclusion: PASS**

**Test graphs as below:**



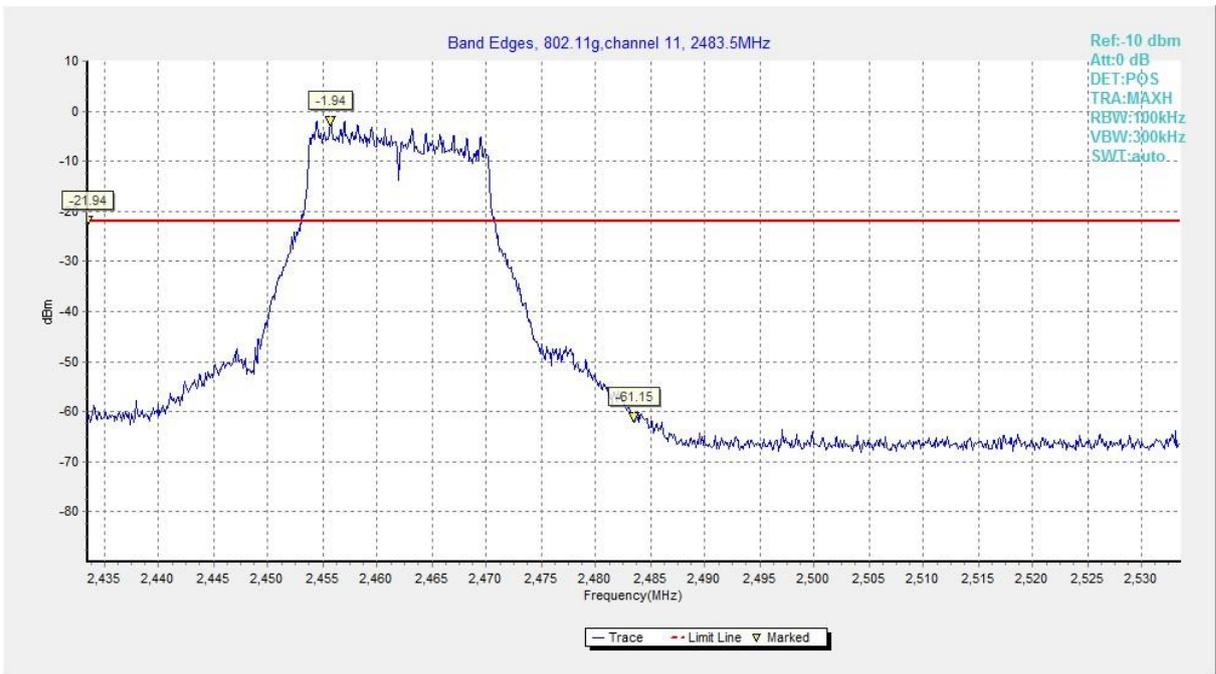
Fig.A.6.1 Band Edges (802.11b, Ch 1)



Fig.A.6.2 Band Edges (802.11b, Ch 11)



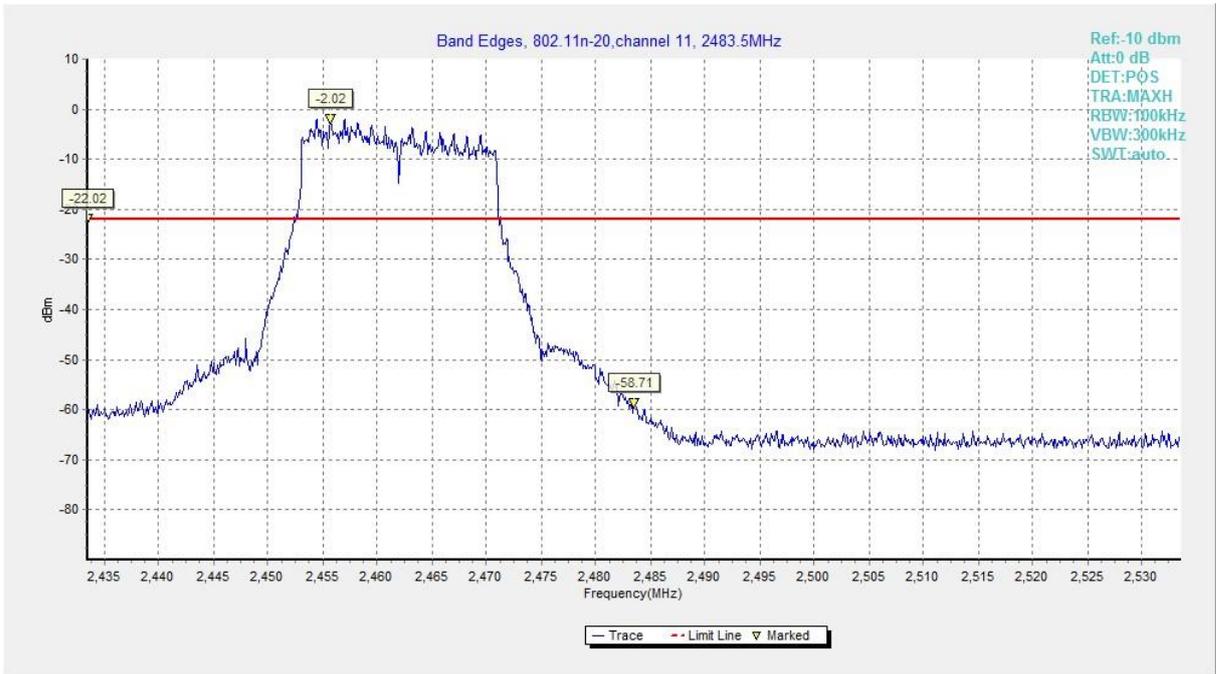
**Fig.A.6.3 Band Edges (802.11g, Ch 1)**



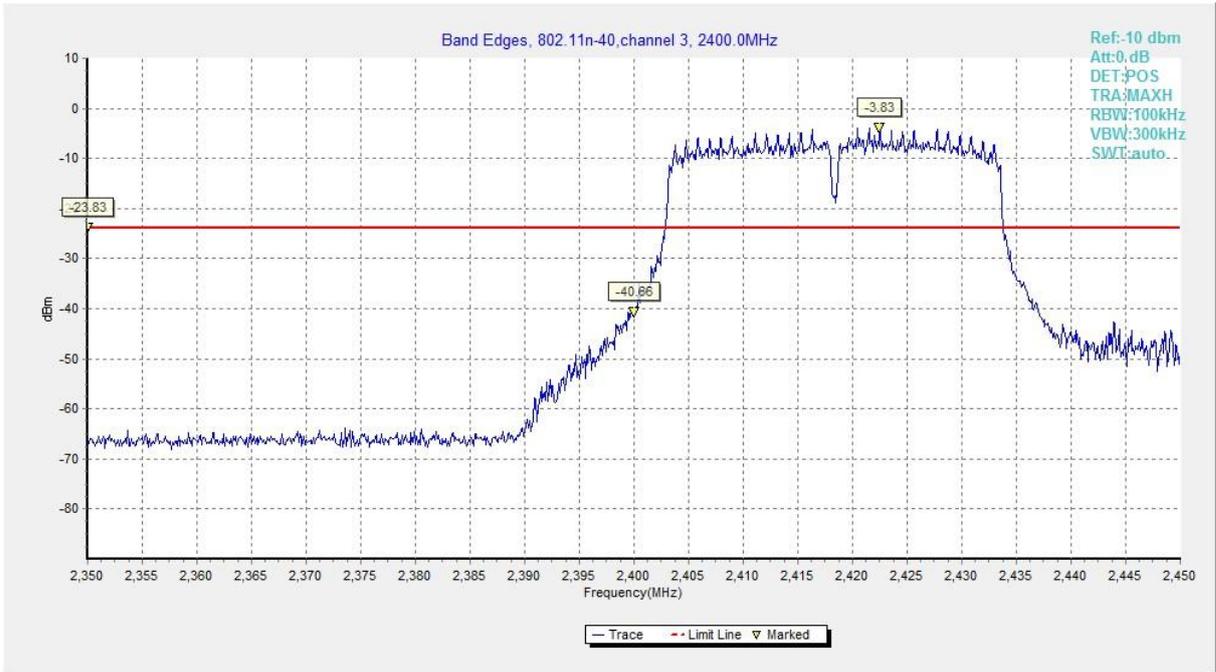
**Fig.A.6.4 Band Edges (802.11g, Ch 11)**



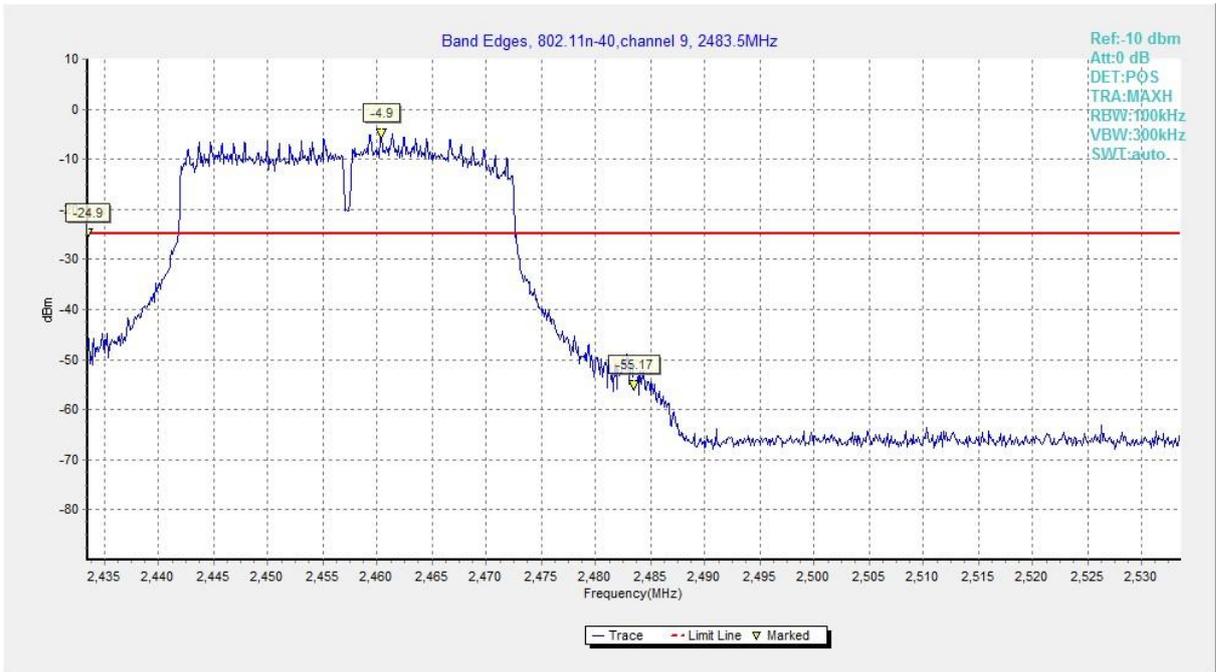
**Fig.A.6.5 Band Edges (802.11n-HT20, Ch 1)**



**Fig.A.6.6 Band Edges (802.11n-HT20, Ch 11)**



**Fig.A.6.7 Band Edges (802.11n-HT40, Ch 3)**



**Fig.A.6.8 Band Edges (802.11n-HT40, Ch 9)**

## A.7. Transmitter Spurious Emission

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

The measurement is made according to ANSI C63.10.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

### Measurement Uncertainty:

Frequency Range	Uncertainty
30MHz ≤ f ≤ 2GHz	0.63 dB
2GHz ≤ f ≤ 3.6GHz	0.82 dB
3.6GHz ≤ f ≤ 8GHz	1.55 dB
8GHz ≤ f ≤ 20GHz	1.86 dB
20GHz ≤ f ≤ 22GHz	1.90 dB
22GHz ≤ f ≤ 26GHz	2.20 dB

Note: Configuration information to be tested as follows:

Modulation type and data rate:

802.11b	802.11g	802.11n-HT20	802.11n-HT40
11Mbps(CCK)	54Mbps(OFDM)	MCS7(OFDM)	MCS3(OFDM)

### A.7.1 Transmitter Spurious Emission - Conducted

#### Measurement Results:

802.11b mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412 GHz	Fig.A.7.1.1	P
		30 MHz ~ 1 GHz	Fig.A.7.1.2	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.3	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.4	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.5	P
		10 GHz ~ 15 GHz	Fig.A.7.1.6	P
		15 GHz ~ 20 GHz	Fig.A.7.1.7	P
		20 GHz ~ 26 GHz	Fig.A.7.1.8	P
	6	2.437 GHz	Fig.A.7.1.9	P
		30 MHz ~ 1 GHz	Fig.A.7.1.10	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.11	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.12	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.13	P
		10 GHz ~ 15 GHz	Fig.A.7.1.14	P
		15 GHz ~ 20 GHz	Fig.A.7.1.15	P
		20 GHz ~ 26 GHz	Fig.A.7.1.16	P
	11	2.462 GHz	Fig.A.7.1.17	P
		30 MHz ~ 1 GHz	Fig.A.7.1.18	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.19	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.20	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.21	P
		10 GHz ~ 15 GHz	Fig.A.7.1.22	P
		15 GHz ~ 20 GHz	Fig.A.7.1.23	P
		20 GHz ~ 26 GHz	Fig.A.7.1.24	P

802.11g mode

MODE	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.412 GHz	Fig.A.7.1.25	P
		30 MHz ~ 1 GHz	Fig.A.7.1.26	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.27	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.28	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.29	P
		10 GHz ~ 15 GHz	Fig.A.7.1.30	P
		15 GHz ~ 20 GHz	Fig.A.7.1.31	P
		20 GHz ~ 26 GHz	Fig.A.7.1.32	P
	6	2.437 GHz	Fig.A.7.1.33	P
		30 MHz ~ 1 GHz	Fig.A.7.1.34	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.35	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.36	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.37	P
		10 GHz ~ 15 GHz	Fig.A.7.1.38	P
		15 GHz ~ 20 GHz	Fig.A.7.1.39	P
		20 GHz ~ 26 GHz	Fig.A.7.1.40	P
	11	2.462 GHz	Fig.A.7.1.41	P
		30 MHz ~ 1 GHz	Fig.A.7.1.42	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.43	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.44	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.45	P
		10 GHz ~ 15 GHz	Fig.A.7.1.46	P
		15 GHz ~ 20 GHz	Fig.A.7.1.47	P
		20 GHz ~ 26 GHz	Fig.A.7.1.48	P

802.11n-HT20 mode

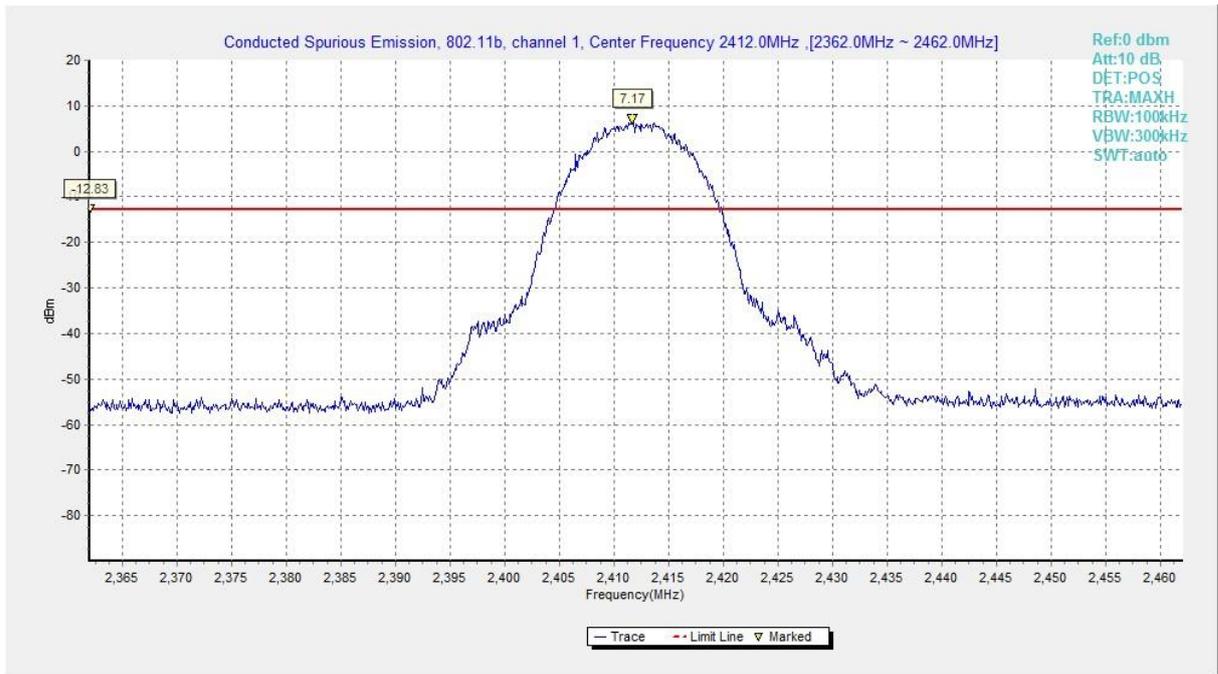
MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412 GHz	Fig.A.7.1.49	P
		30 MHz ~ 1 GHz	Fig.A.7.1.50	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.51	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.52	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.53	P
		10 GHz ~ 15 GHz	Fig.A.7.1.54	P
		15 GHz ~ 20 GHz	Fig.A.7.1.55	P
		20 GHz ~ 26 GHz	Fig.A.7.1.56	P
	6	2.437 GHz	Fig.A.7.1.57	P
		30 MHz ~ 1 GHz	Fig.A.7.1.58	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.59	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.60	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.61	P
		10 GHz ~ 15 GHz	Fig.A.7.1.62	P
		15 GHz ~ 20 GHz	Fig.A.7.1.63	P
		20 GHz ~ 26 GHz	Fig.A.7.1.64	P
	11	2.462 GHz	Fig.A.7.1.65	P
		30 MHz ~ 1 GHz	Fig.A.7.1.66	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.67	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.68	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.69	P
		10 GHz ~ 15 GHz	Fig.A.7.1.70	P
		15 GHz ~ 20 GHz	Fig.A.7.1.71	P
		20 GHz ~ 26 GHz	Fig.A.7.1.72	P

802.11n-HT40 mode

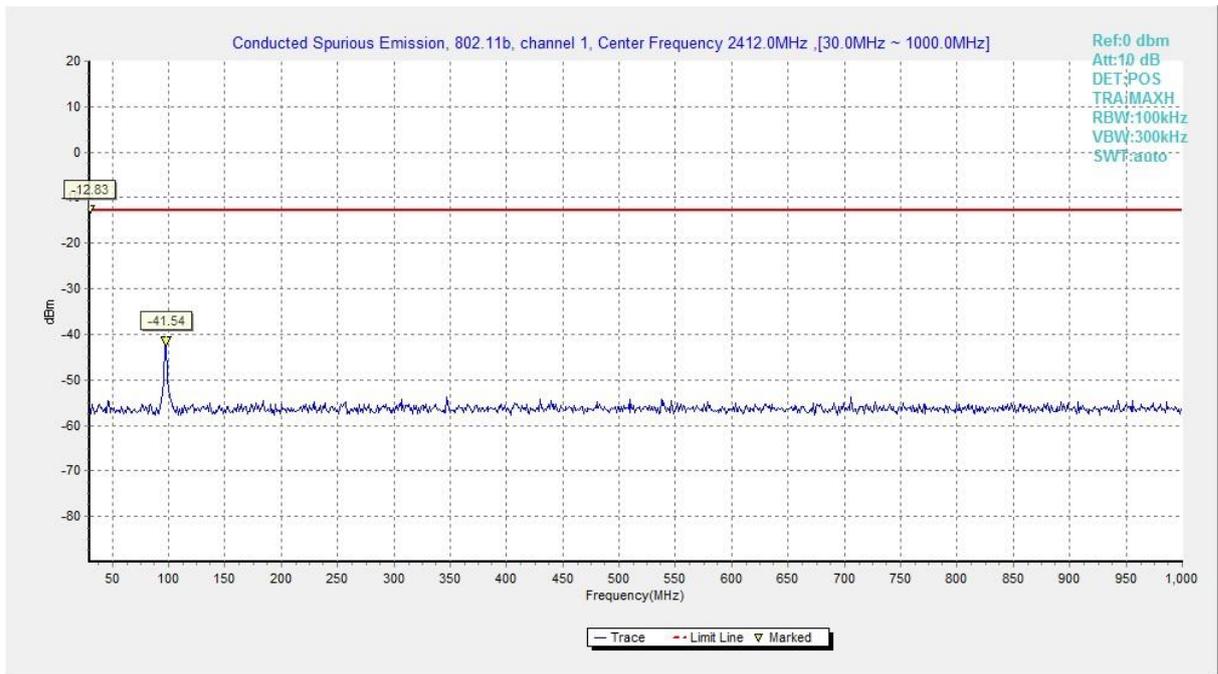
MODE	Channel	Frequency Range	Test Results	Conclusion
802.11n (40MHz)	3	2.422 GHz	Fig.A.7.1.73	P
		30 MHz ~ 1 GHz	Fig.A.7.1.74	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.75	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.76	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.77	P
		10 GHz ~ 15 GHz	Fig.A.7.1.78	P
		15 GHz ~ 20 GHz	Fig.A.7.1.79	P
		20 GHz ~ 26 GHz	Fig.A.7.1.80	P
	6	2.437 GHz	Fig.A.7.1.81	P
		30 MHz ~ 1 GHz	Fig.A.7.1.82	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.83	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.84	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.85	P
		10 GHz ~ 15 GHz	Fig.A.7.1.86	P
		15 GHz ~ 20 GHz	Fig.A.7.1.87	P
		20 GHz ~ 26 GHz	Fig.A.7.1.88	P
	9	2.452 GHz	Fig.A.7.1.89	P
		30 MHz ~ 1 GHz	Fig.A.7.1.90	P
		1 GHz ~ 2.5 GHz	Fig.A.7.1.91	P
		2.5 GHz ~ 7.5 GHz	Fig.A.7.1.92	P
		7.5 GHz ~ 10 GHz	Fig.A.7.1.93	P
		10 GHz ~ 15 GHz	Fig.A.7.1.94	P
		15 GHz ~ 20 GHz	Fig.A.7.1.95	P
		20 GHz ~ 26 GHz	Fig.A.7.1.96	P

**Conclusion: PASS**

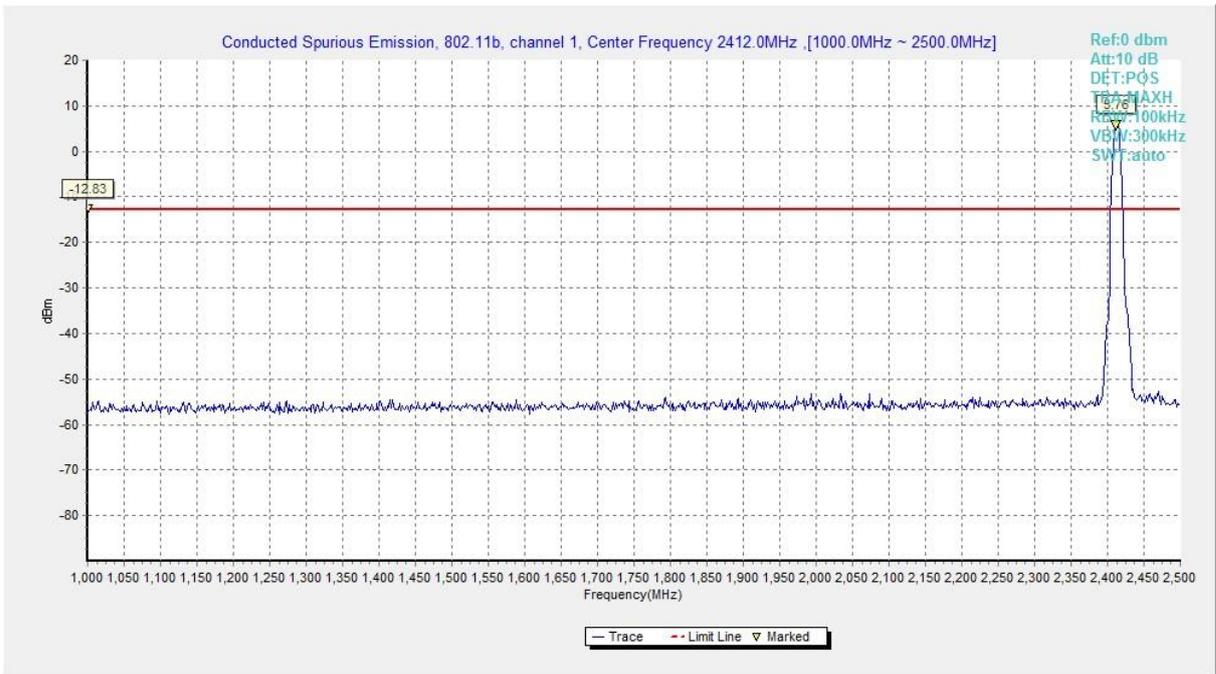
**Test graphs as below:**



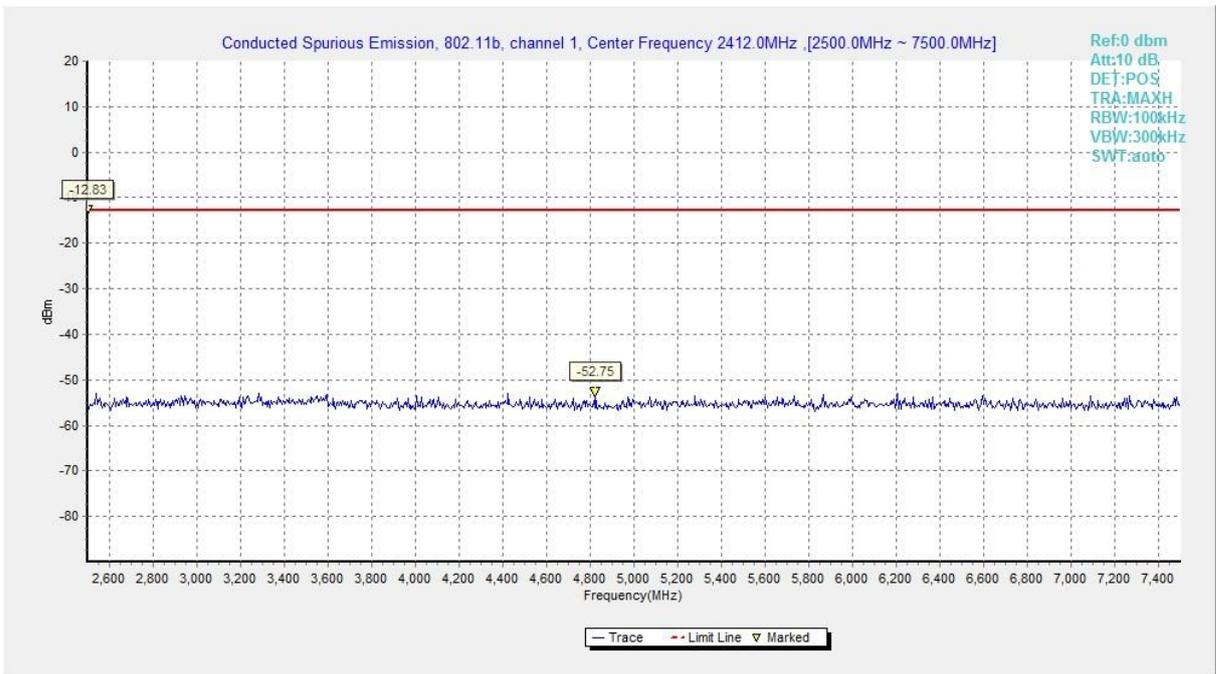
**Fig.A.7.1.1 Conducted Spurious Emission (802.11b, Ch1, Center Frequency)**



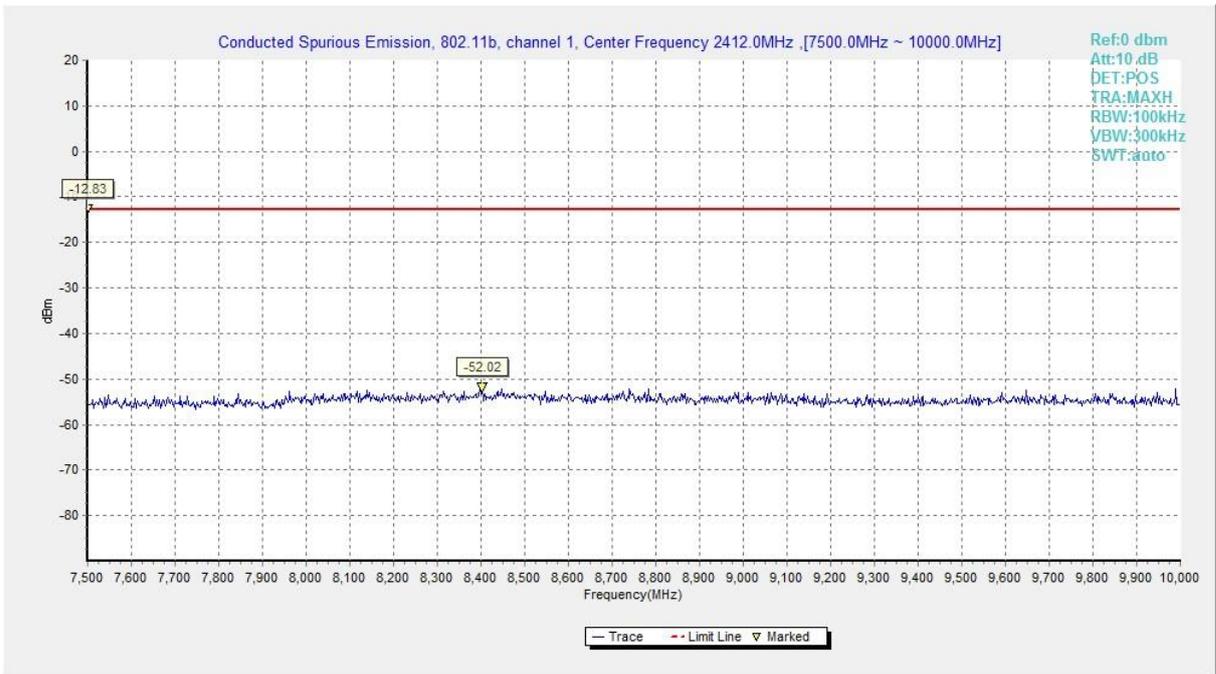
**Fig.A.7.1.2 Conducted Spurious Emission (802.11b, Ch1, 30 MHz-1 GHz)**



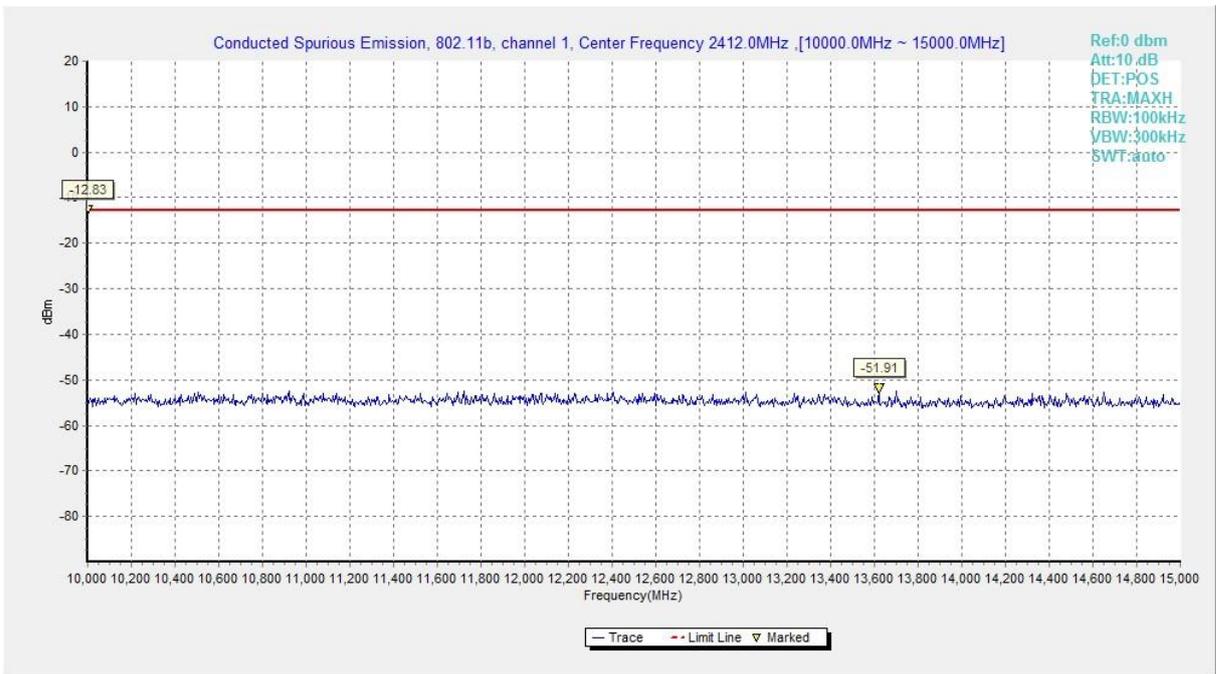
**Fig.A.7.1.3 Conducted Spurious Emission (802.11b, Ch1, 1 GHz-2.5 GHz)**



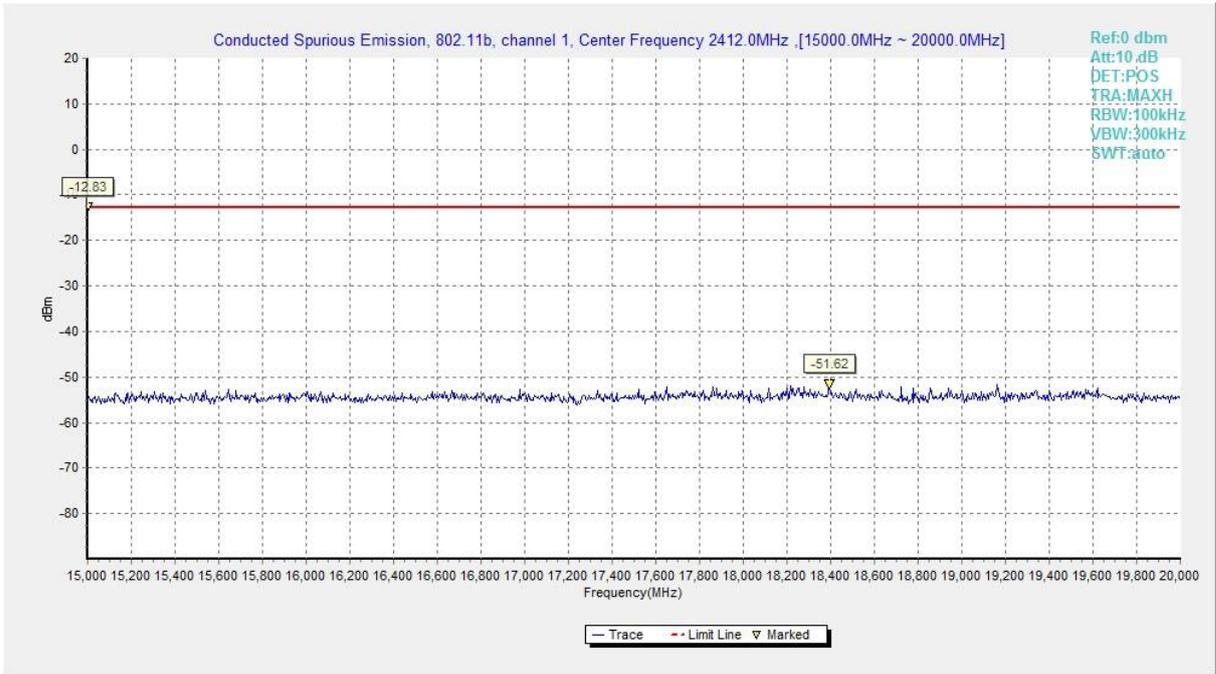
**Fig.A.7.1.4 Conducted Spurious Emission (802.11b, Ch1, 2.5 GHz-7.5 GHz)**



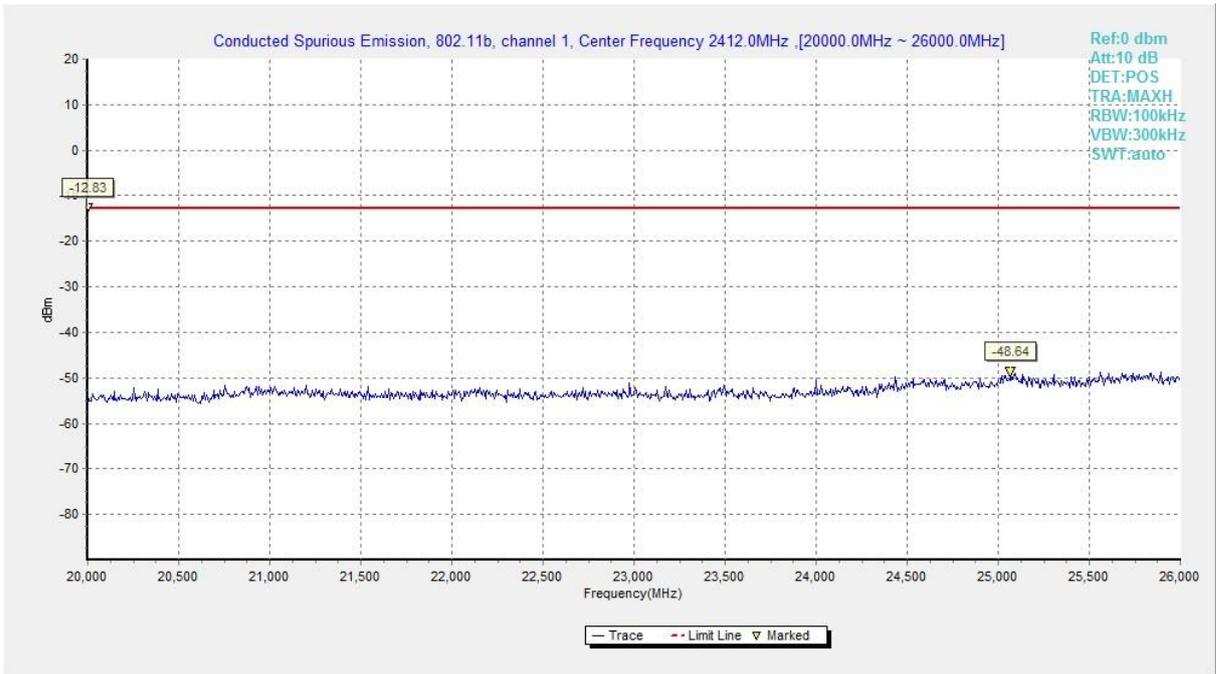
**Fig.A.7.1.5 Conducted Spurious Emission (802.11b, Ch1, 7.5 GHz-10 GHz)**



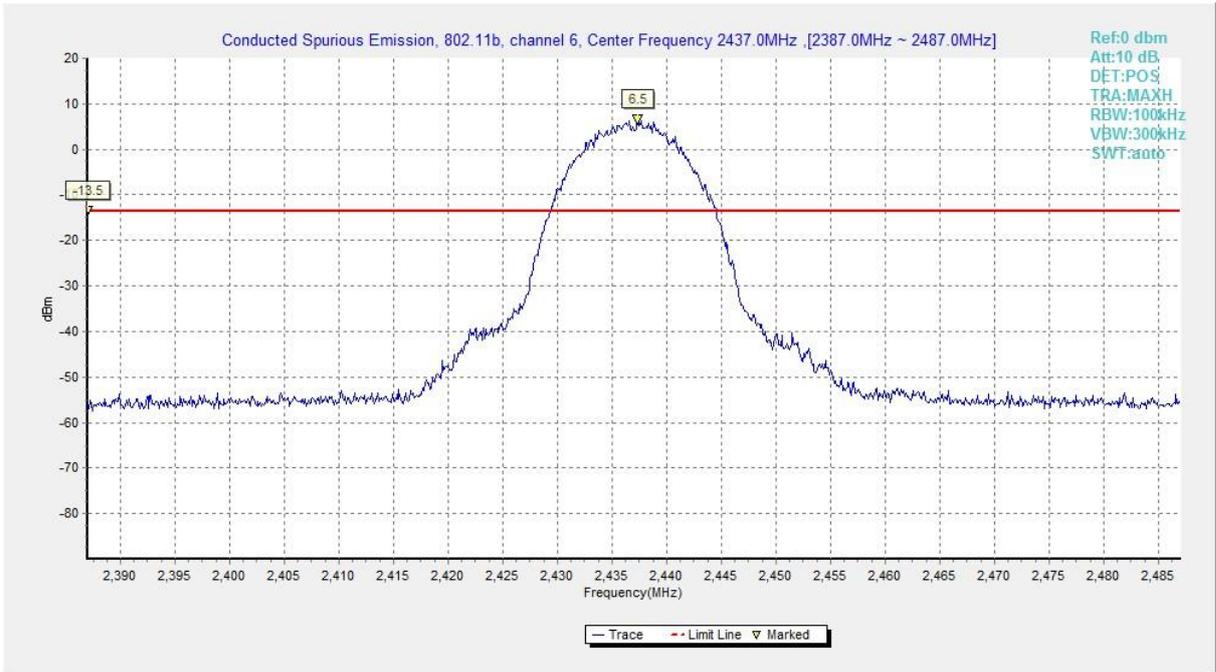
**Fig.A.7.1.6 Conducted Spurious Emission (802.11b, Ch1, 10 GHz-15 GHz)**



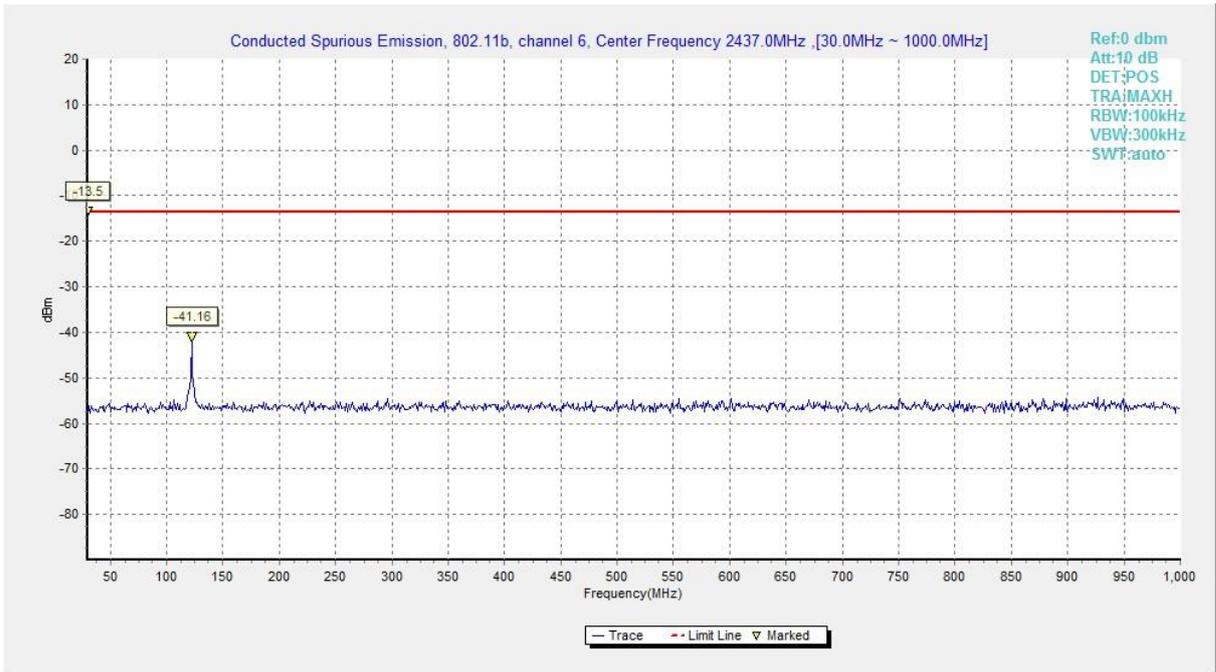
**Fig.A.7.1.7 Conducted Spurious Emission (802.11b, Ch1, 15 GHz-20 GHz)**



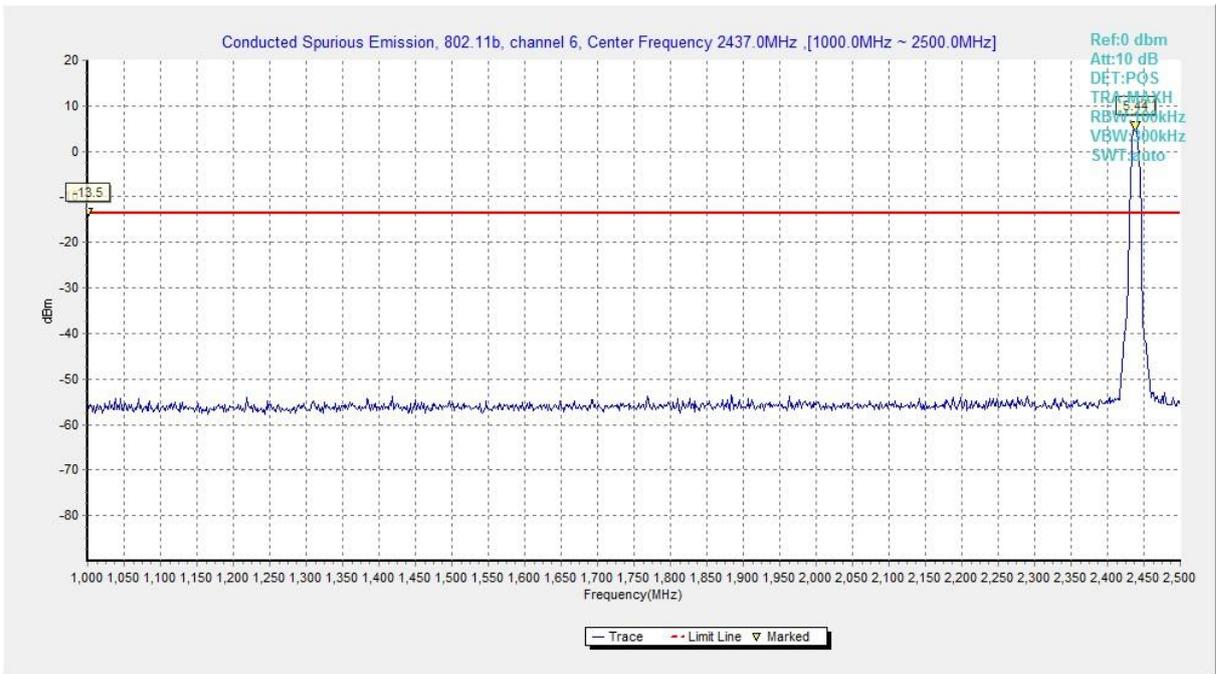
**Fig.A.7.1.8 Conducted Spurious Emission (802.11b, Ch1, 20 GHz-26 GHz)**



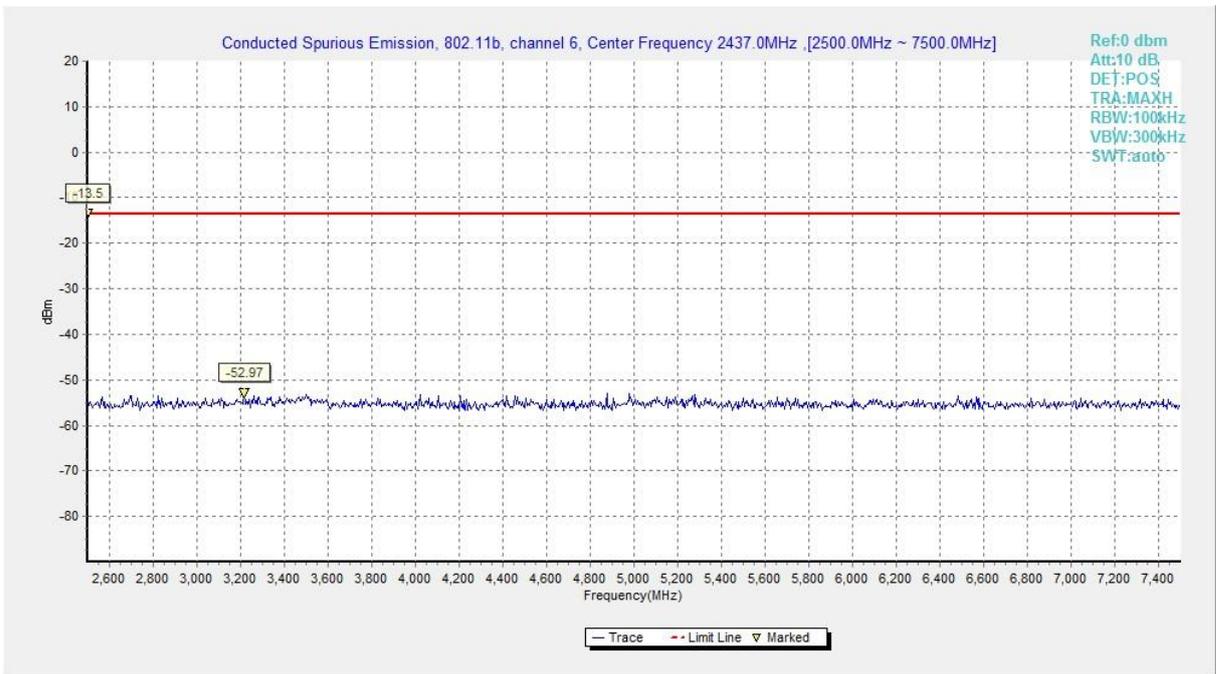
**Fig.A.7.1.9 Conducted Spurious Emission (802.11b, Ch6, Center Frequency)**



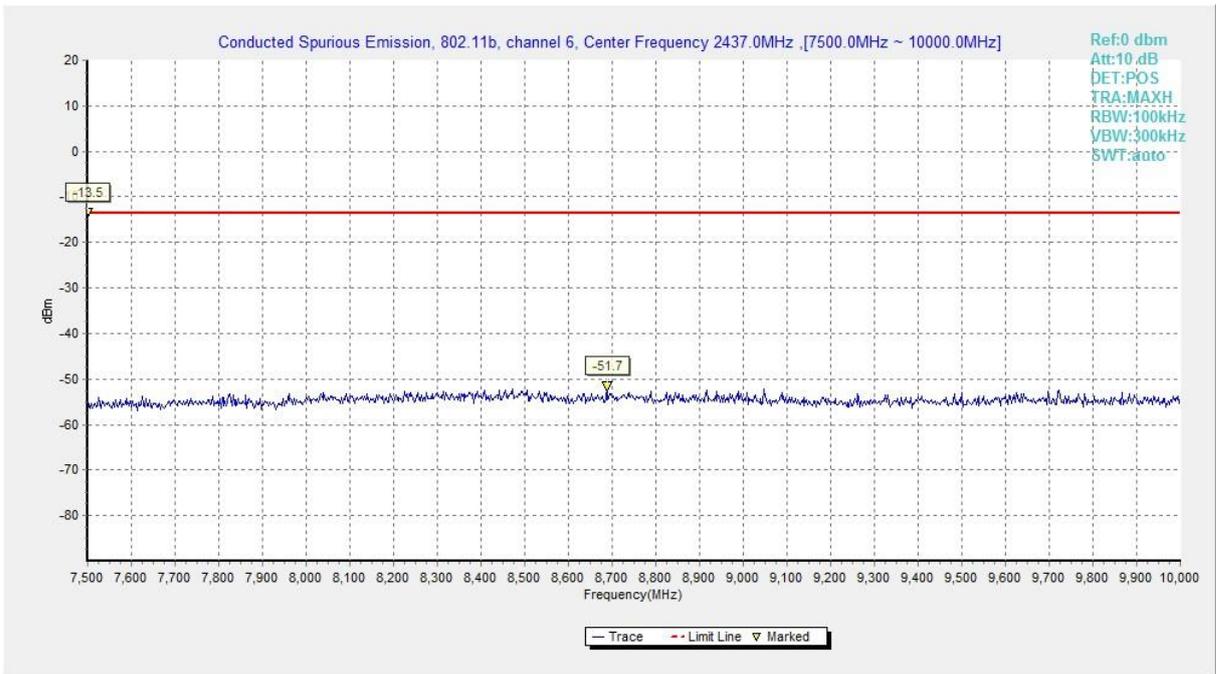
**Fig.A.7.1.10 Conducted Spurious Emission (802.11b, Ch6, 30 MHz-1 GHz)**



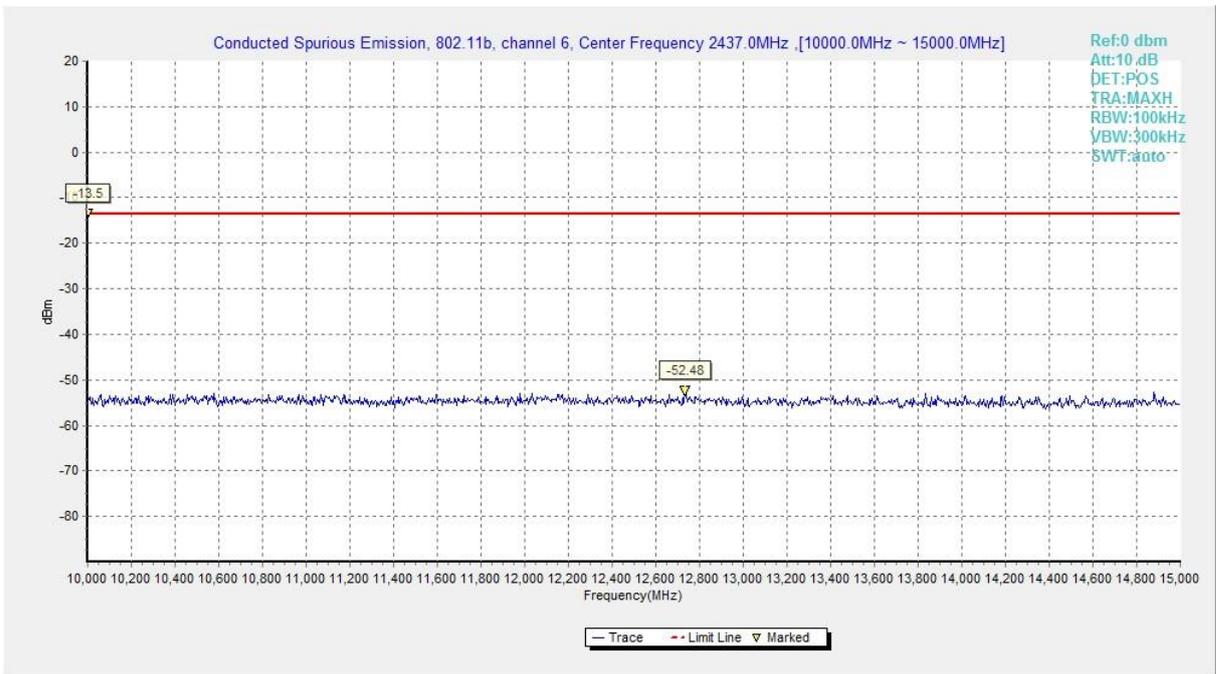
**Fig.A.7.1.11 Conducted Spurious Emission (802.11b, Ch6, 1 GHz-2.5 GHz)**



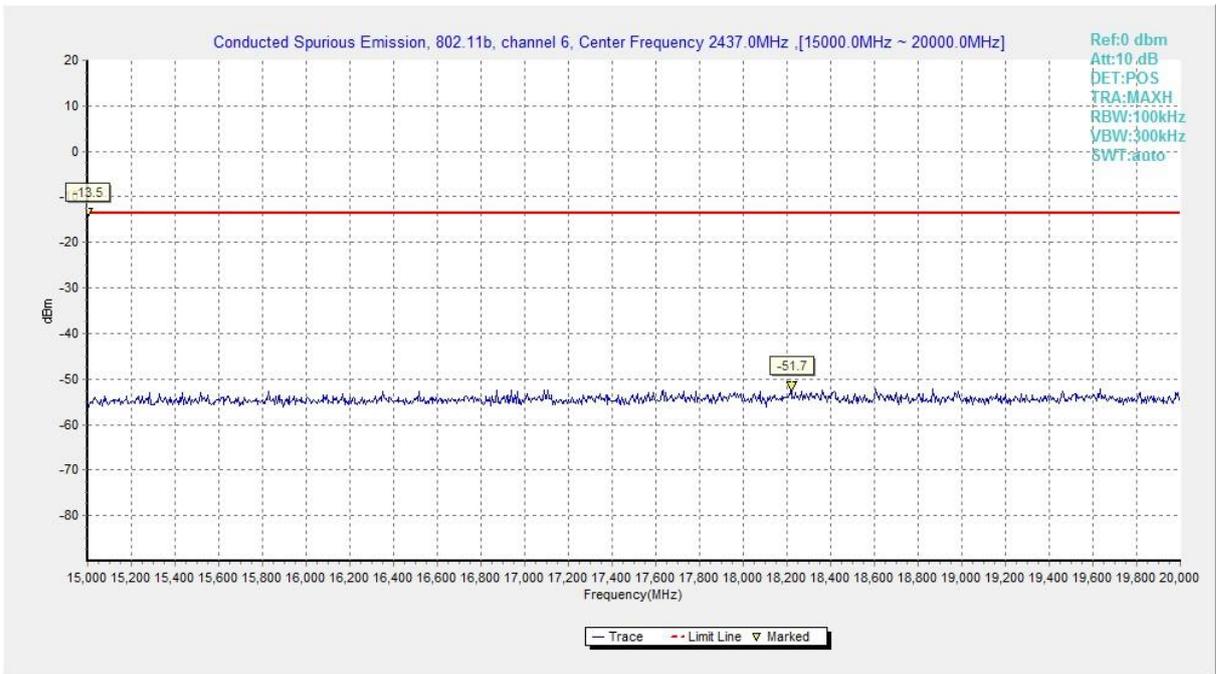
**Fig.A.7.1.12 Conducted Spurious Emission (802.11b, Ch6, 2.5 GHz-7.5 GHz)**



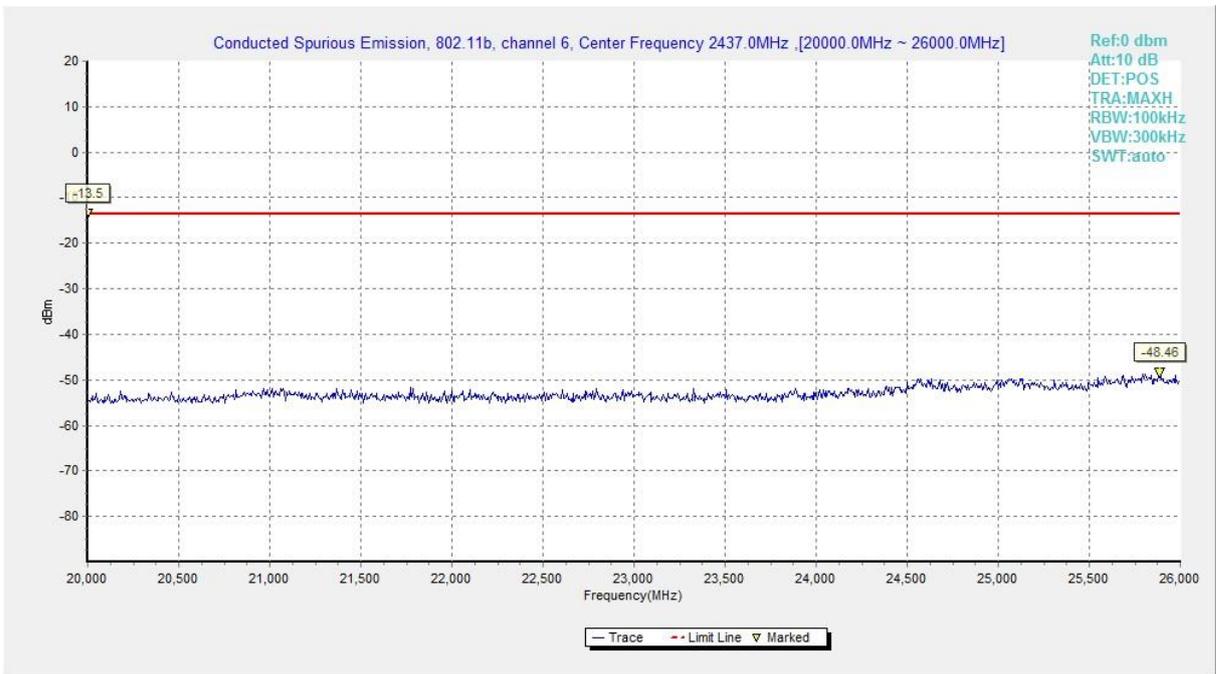
**Fig.A.7.1.13 Conducted Spurious Emission (802.11b, Ch6, 7.5 GHz-10 GHz)**



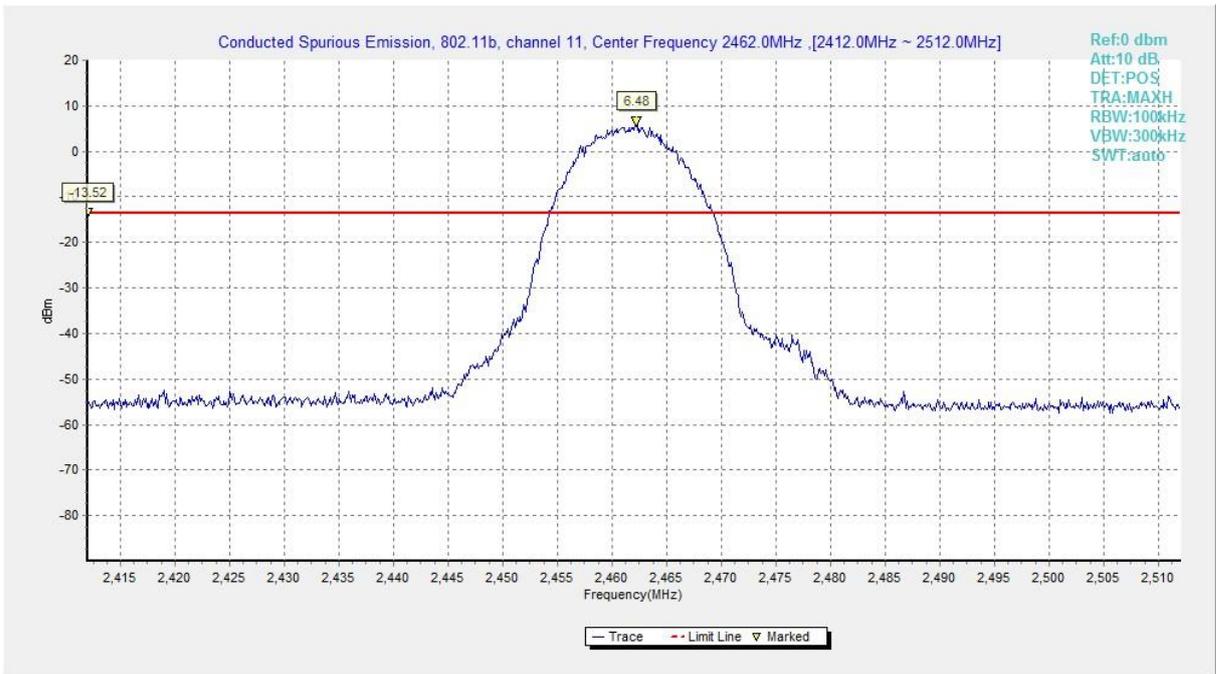
**Fig.A.7.1.14 Conducted Spurious Emission (802.11b, Ch6, 10 GHz-15 GHz)**



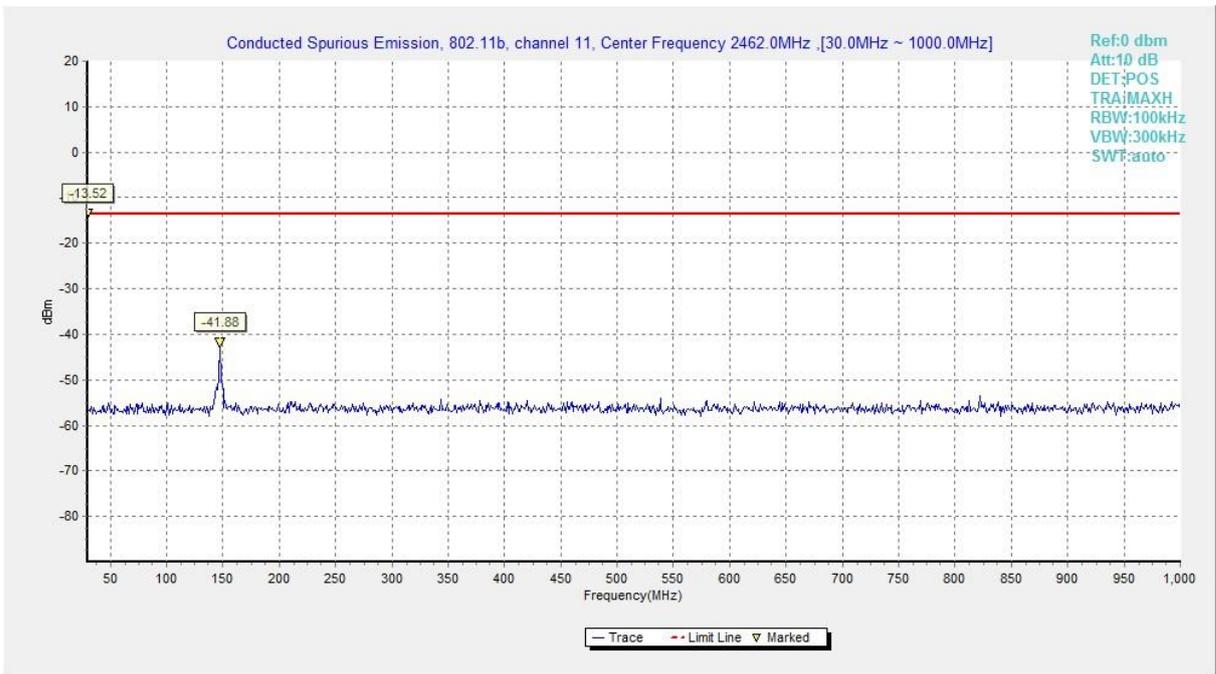
**Fig.A.7.1.15 Conducted Spurious Emission (802.11b, Ch6, 15 GHz-20 GHz)**



**Fig.A.7.1.16 Conducted Spurious Emission (802.11b, Ch6, 20 GHz-26 GHz)**



**Fig.A.7.1.17 Conducted Spurious Emission (802.11b, Ch11, Center Frequency)**



**Fig.A.7.1.18 Conducted Spurious Emission (802.11b, Ch11, 30 MHz-1 GHz)**