



## FCC PART 15C TEST REPORT

**REPORT NO.:**VITE1107006E-3

**MODEL NO.:** M31

**FCC ID:** R38-YLM31

**RECEIVED:** July15, 2011

**TESTED:** July15, 2011 to August 21, 2011

**APPLICANT:** Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD

**ADDRESS:** Coolpad Information Harbor,2nd Mengxi Road,Hi-Tich  
Industrial Park (North) , NanShan District, ShenZhen, China

**ISSUED BY:** SHENZHEN UNITE-CICC SERVICES CO.,LTD.

**LAB LOCATION:** 21F, COFCO Building, Baoan District, Shenzhen, Guangdong, China

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**SHENZHEN UNITE-CICC SERVICES CO.,LTD.**

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Manufacture : Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD  
Address : Coolpad Information Harbor,2nd Mengxi Road,Hi-Tich Industrial Park  
(North) ,NanShan District,ShenZhen, China  
Product : CDMA 1x EV-DO Rev A (800MHZ)  
Model No. : M31  
Trademark : Coolpad  
Test Standard : FCC Part 15 section 15.203, section 15.205, section 15.207, section 15.209 and  
section 15.247  
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Prepared by :   
(Engineer)

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Approved by :   
(Manager)

Report Number : VITE1107006E-3

Date of Test : July16, 2011 to August 22, 2011

Date of Report : August 22, 2011

The device described above is tested by SHENZHEN UNITE-CICC SERVICES CO.,LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report applies to above tested sample only and shall not be reproduced in part without written approval of SHENZHEN UNITE-CICC SERVICES CO.,LTD.

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# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

EUT	:	CDMA 1x EV-DO Rev A (800MHZ)
Brand Name	:	YULONG
Model Number	:	M31
IMEI	:	a10000075c8009
Hardware Version	:	Msm7627_7X_SURF
Software Version	:	1.0.24552.0144
Power Supply	:	Battery DC 3.7V, Adapter DC USB 5V
Power Cable	:	USB cable
Frequency range:	:	CDMA800:824.7~848.31(Tx)868.7~893.31(Rx) WiFi:2400~2483.5MHz Bluetooth:2400~2483.5MHz
Cellular Network Protocol	:	GSM/GPRS
Modulation	:	GMSK(CDMA) ,DSSS,OFDM,QPSK (802.11b/g/n) GFSK(Bluetooth)
Antenna Gain:	:	CDMA: 0dBi WiFi and Bluetooth:0dBi
Type of Antenna	:	Integral Antenna
Manufacturer	:	Yulong Computer Telecommunication Scientific (Shenzhen) Co. LTD
Address	:	Coolpad Information Harbor,2nd Mengxi Road,Hi-Tich Industrial Park (North) ,NanShan District,ShenZhen, China
Date of receiver	:	June 15, 2011
Date of Test	:	July16, 2011 to August 22, 2011

## 1.2. Test Standards

Test Standards/Items	
§ 15.207	Conducted Emission
§ 15.209(a) 15.247 (d)	Radiated Emission
§ 15.203;§ 15.247(c)	Antenna Requirement
§ 15.247(b)(3)	Max Peak Power
§ 15.247 (d)	Band Edge Measurement
§ 15.247(a)(2)	6dB Bandwidth
§ 15.247(e)	Peak Power Spectral Density

## 1.3. Measurement Uncertainty

Radiation Uncertainty :  $U_r = \pm 3.84\text{dB}$

Conduction Uncertainty :  $U_c = \pm 2.72\text{dB}$

## 2. MEASURING DEVICE AND TEST FACILITY

### 2.1.Measurement Facilities List

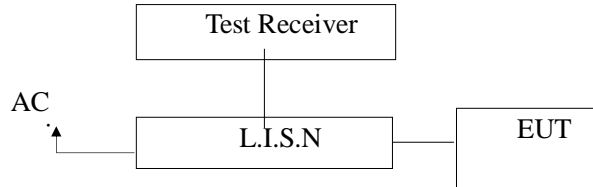
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100869	Dec. 28, 2010	1 Year
2	L.I.S.N	Rohde & Schwarz	ESH3-Z5	101288	Dec. 28, 2010	1 Year
3	Horn Antenna	SCHWARZBECK	VULB9418	9418-763	Dec. 28, 2010	1 Year
4	Trilog Broadband Antenna	SCHWARZBECK	VULB 9163	9613-470	Dec. 28, 2010	1 Year
5	Universal Radio Communication Tester	Rohde & Schwarz	CMU200	112065	Dec. 28, 2010	1 Year
6	Signal Generator	Rohde & Schwarz	SMR20	100158	Dec. 28, 2010	1 Year
7	Amplifier	MITEQ	AFS44-0012	858687	Dec. 28, 2010	1 Year
8	Test Receiver	Advantest	R3182	14060028	Dec. 28, 2010	1 Year
9	Spectrum Analyzer	Agilent	E4403	US4192834	Dec. 28, 2010	1 Year
10	RF Cable	Agilent	C09834	H09318	Dec. 28, 2010	1 Year

### 2.2.Test Facility

Test Laboratory: Shenzhen LCS Compliance Testing Laboratory Ltd. The Lab is registered Federal Communications Commission, the Registration Number is 899208.  
Address: Xingyuan Industrial Park, Tongda Road, Bao'an Blvd, Bao'an District, Shenzhen, China

### 3. CONDUCTED EMISSION MEASUREMENT

#### 3.1 Block Diagram of Test Setup



#### 3.2 Measuring Standard

According as FCC 15.207 requirements and testing conducted refer to ANSI C63.4, American national Standard for methods of measurement of radio-noise emission from low voltage electrical and electronic equipment in the range of 9kHz to 40GHz.

#### 3.3 Conducted Emission Limits

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	59.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

Remark: \* means decreasing linearly with logarithm of frequency.

#### 3.4 EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet ANSI C63.4 requirements and operating in a manner, which tends to maximize its emission characteristics in a normal application.

### 3.5 Operating Condition of EUT

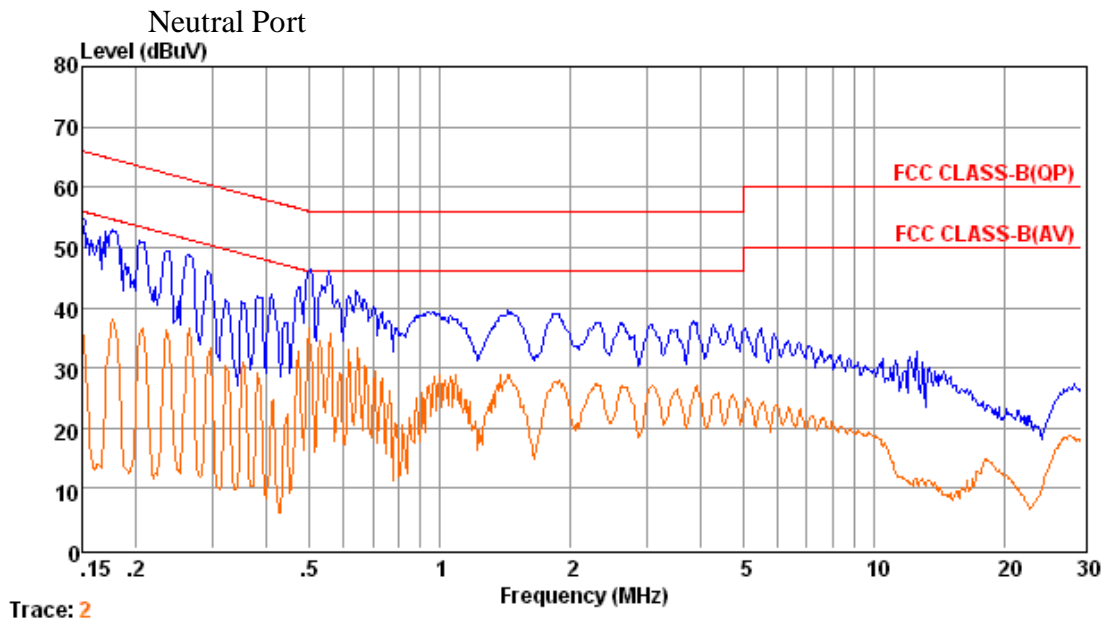
- 3.5.1. Setup the EUT as shown on Section 3.1.
- 3.5.2. Turn on the power of all equipments.
- 3.5.3. Let the EUT work in measuring mode (NORMAL) and measure it.

### 3.6 Test Procedure

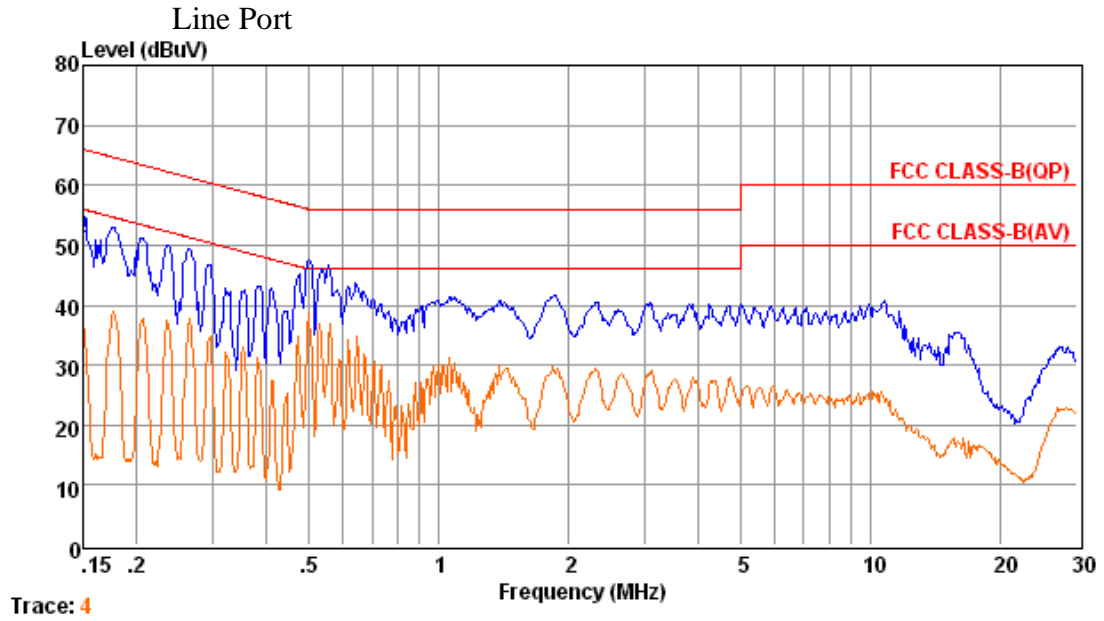
The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through a Line Impedance Stability Network (L.I.S.N). This provided 50ohm-coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the ANSI C63.4 regulations during conducted emission measurement. The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9KHz. The frequency range from 150kHz to 30MHz is investigated.

### 3.7 Measuring Results

Following Diagram/Table of Conducted Emissions Test







Data Table

Frequency MHz	Decord QP/AV	Test result dB $\mu$ V	Limit dB $\mu$ V	Margin dB	Port L/N
0.151	QP	55.24	66.00	-10.76	L
0.503	QP	46.99	56.00	-9.01	L
5.616	QP	40.78	60.00	-19.22	L
0.504	AV	38.92	46.00	-7.08	L
3.479	AV	30.08	46.00	-15.92	L
12.108	AV	26.24	50.00	-23.76	L
0.610	QP	47.35	56.00	-8.65	N
0.698	QP	46.76	56.00	-9.24	N
1.370	QP	42.24	56.00	-13.76	N
0.580	AV	38.19	46.00	-7.81	N
2.401	AV	31.34	46.00	-14.66	N
10.012	AV	25.74	50.00	-24.26	N

## **4. ANTENNA REQUIREMENT**

### **4.1 Standard Requirement**

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### **4.2 Measuring Result**

This product antenna is the integral antenna, fulfill the requirement of this section.

## 5. POWER SPECTRAL DENSITY

### 5.1 Standard applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the 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.

### 5.2 Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set center frequency of spectrum analyzer = operating frequency.

Repeat above procedures until all frequency measured was complete.

spectral is set at 30 kHz. Bandwidth Test Procedure

The Transmitter output of EUT was connected to the spectrum analyzer. The 20 dB bandwidth of the fundamental frequency was measured. The setting of spectrum analyzer is as follows:

Equipment mode	Spectrum analyzer
Detector function	Peak mode
RBW	3 KHz
VBW	3 KHz
Span:	20MHz

Repeat above procedures until all frequencies measured were complete.

Test 26dB down emission bandwidth and record.

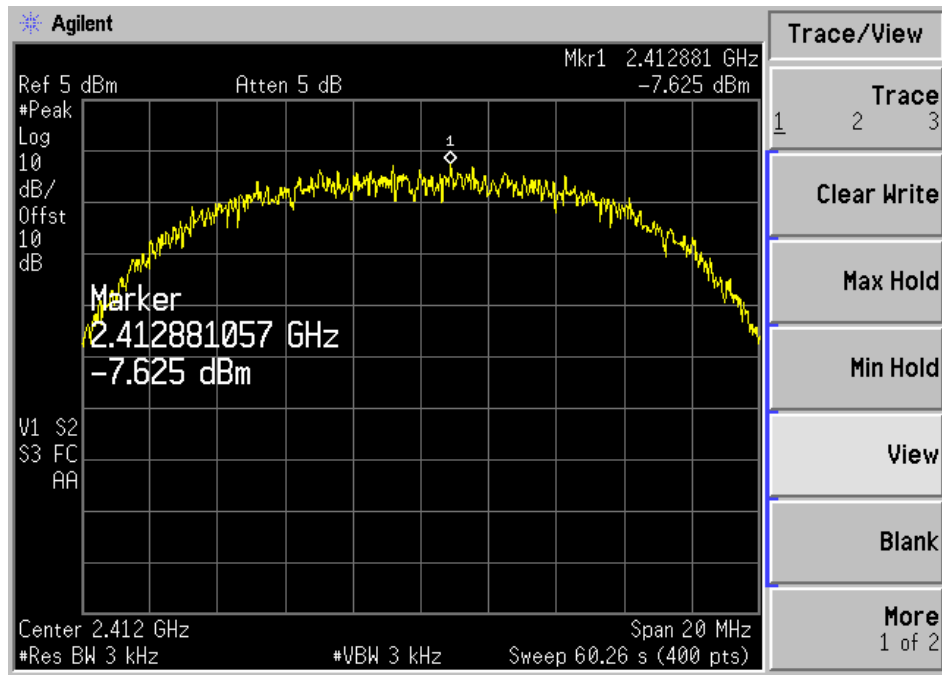
### 5.3 Measuring Results

Refer to the test table record following as:

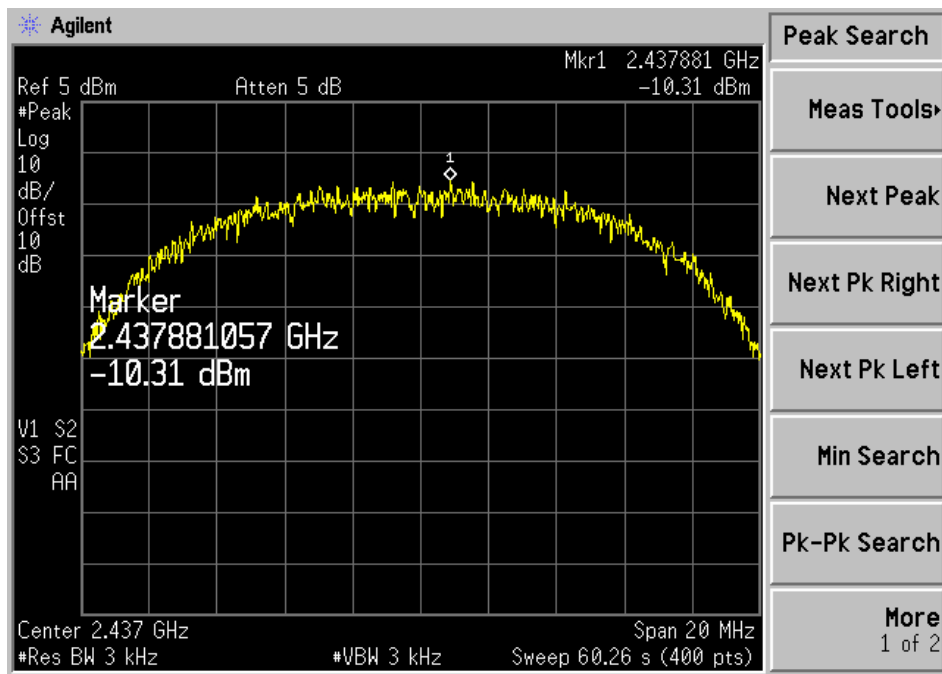
Mode	Test channel	Reading dBm/3kHz	Limit dBm/3kHz
802.11b	Low channel (2412MHz)	-7.625	8
	Middle channel (2437MHz)	-10.31	8
	High channel (2462MHz)	-10.59	8
802.11g	Low channel (2412MHz)	-14.79	8
	Middle channel (2437MHz)	-14.8	8
	High channel (2462MHz)	-14.77	8
802.11n (HT-20)	Low channel (2412MHz)	-14.94	8
	Middle channel (2437MHz)	-14.11	8
	High channel (2462MHz)	-14.79	8
802.11n (HT-40)	Low channel (2422MHz)	-6.709	8
	Middle channel (2437MHz)	-7.129	8
	High channel (2452MHz)	-5.832	8

Refer to the test diagram following as:

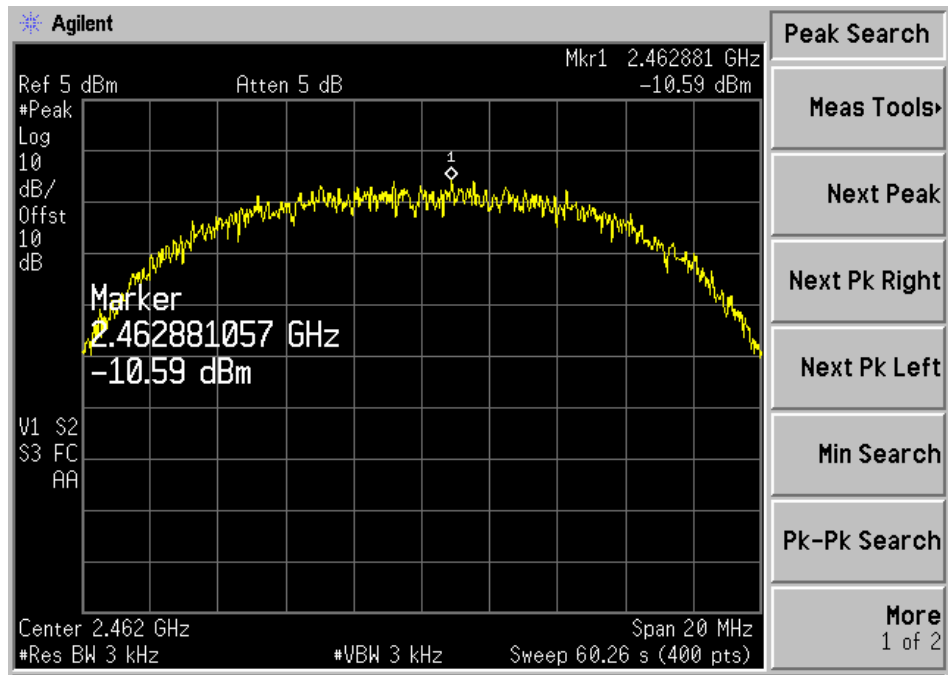
For 802.11b  
Low Channel:



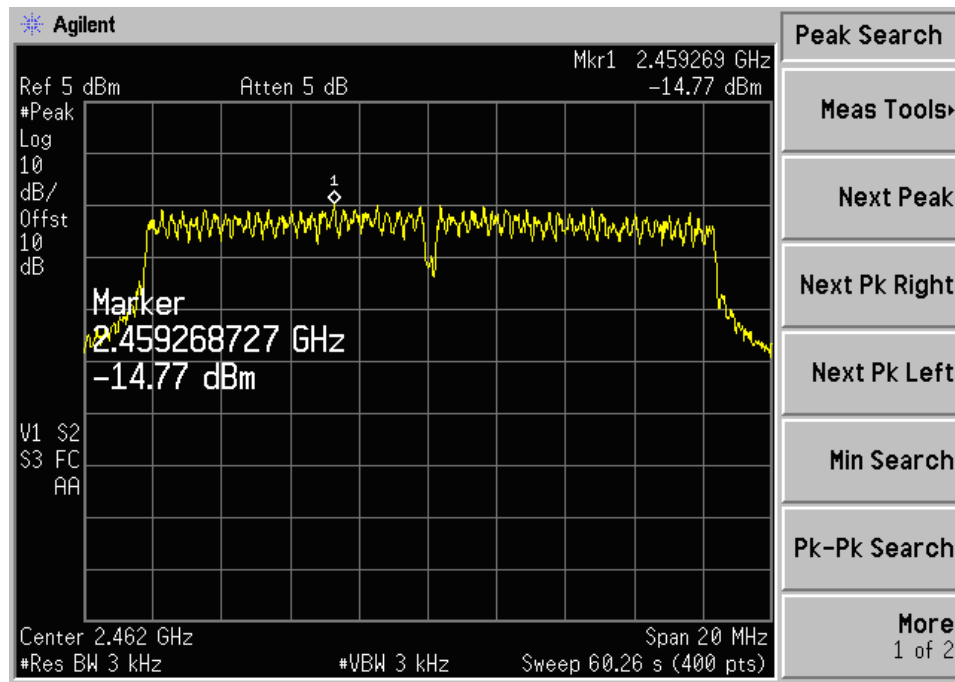
Middle Channel:



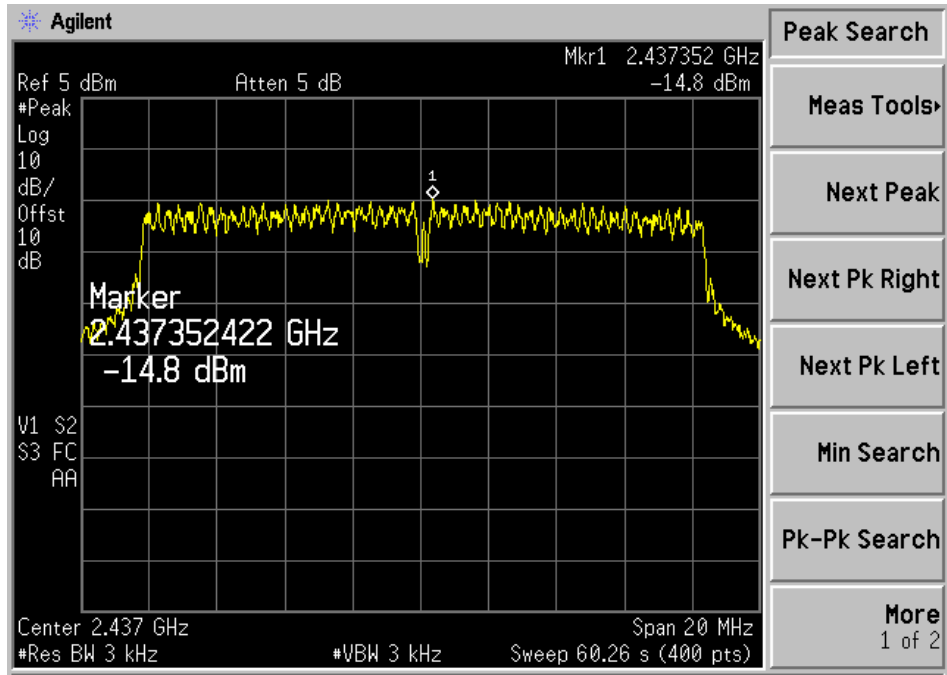
High Channel:



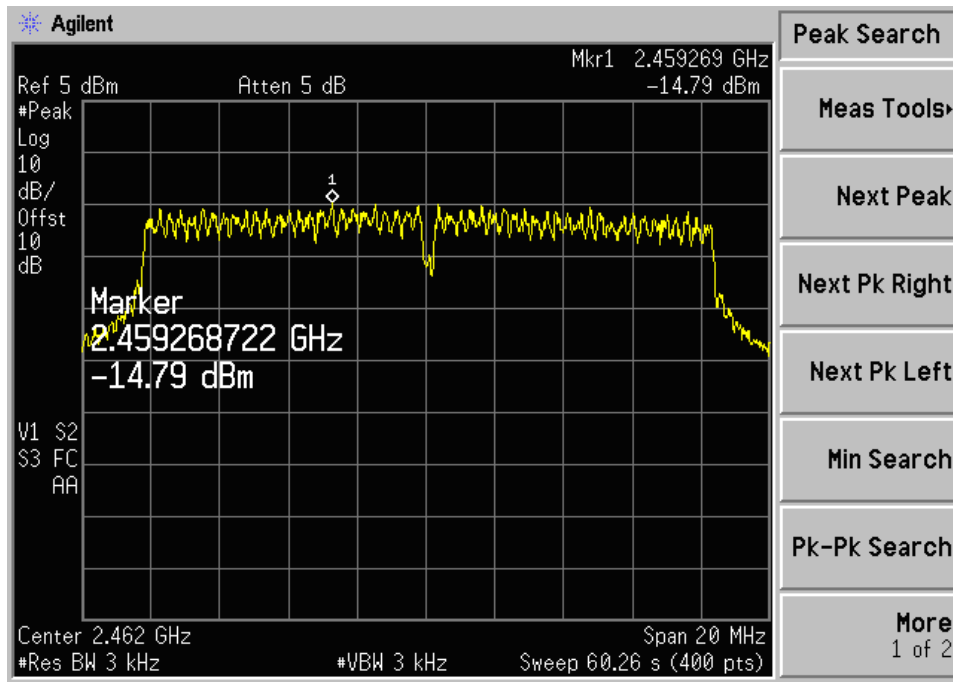
For 802.11g  
Low Channel:



Middle Channel:

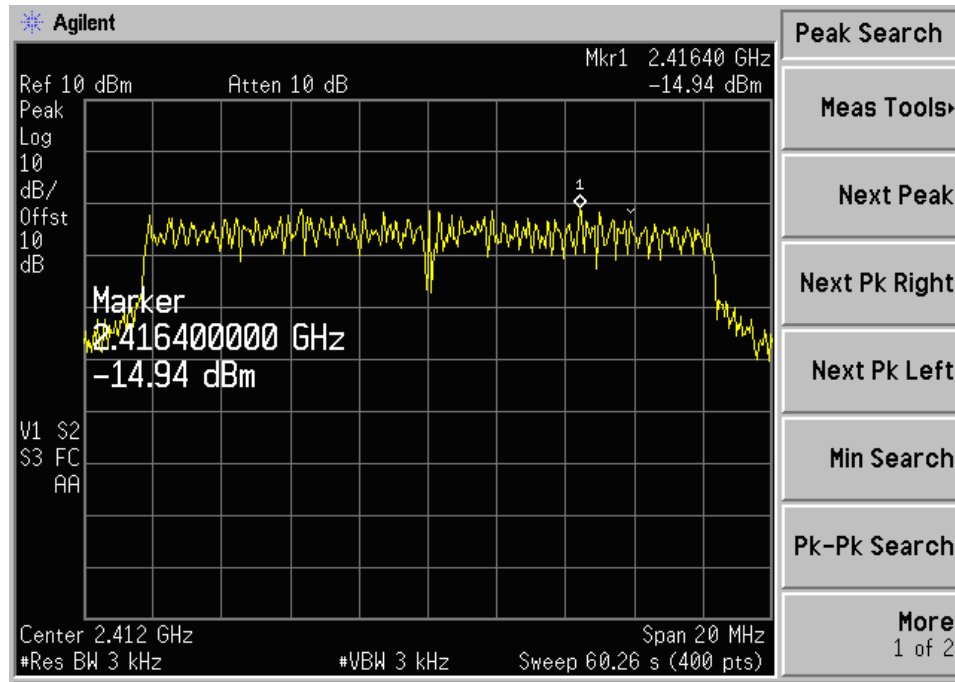


High Channel:

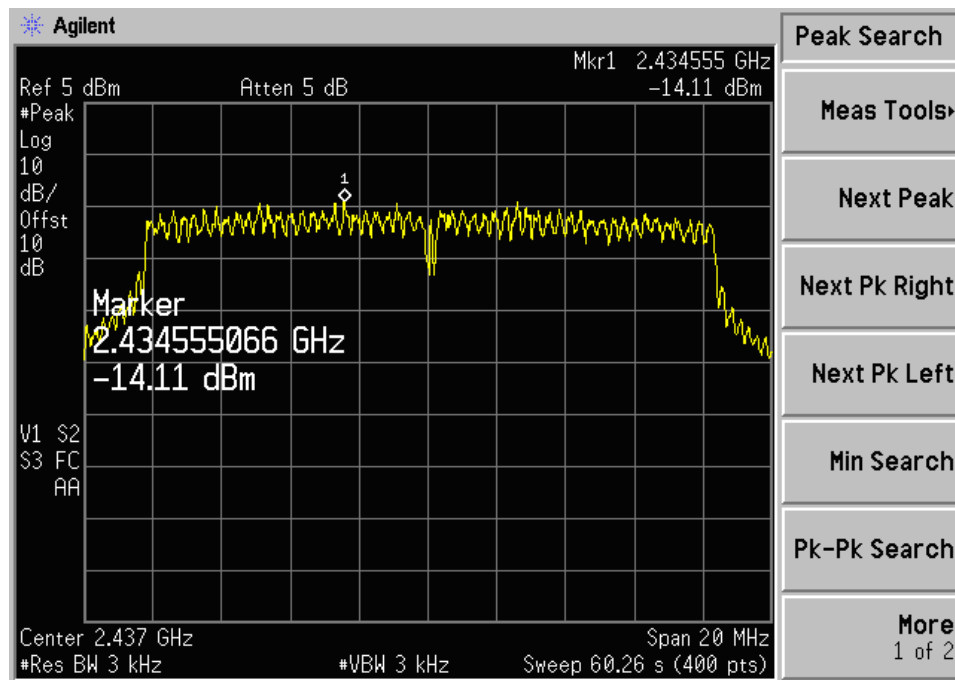


For 802.11n HT20

Low Channel:

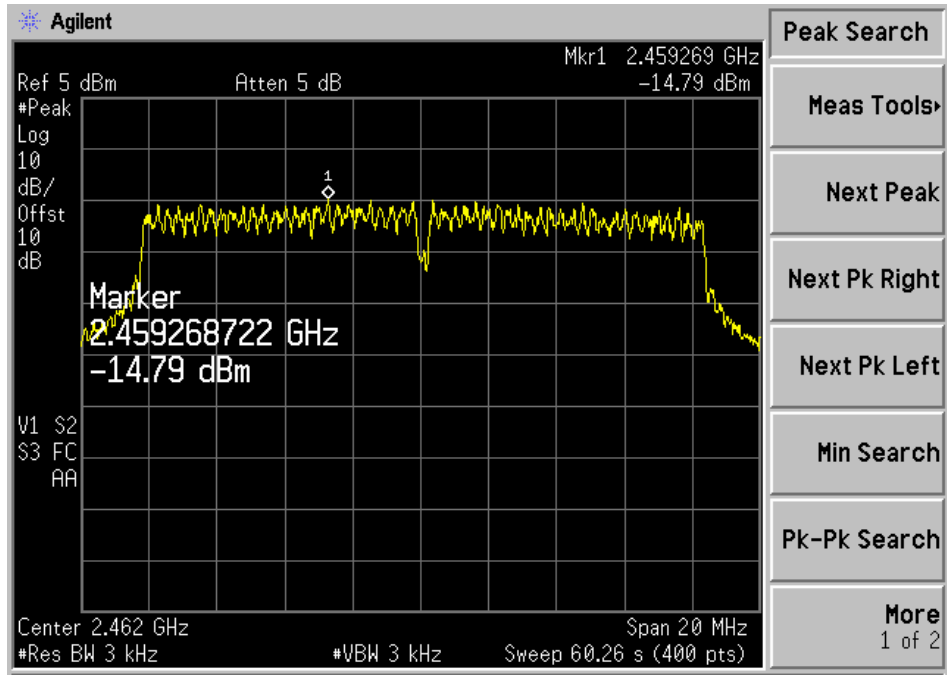


Middle Channel:



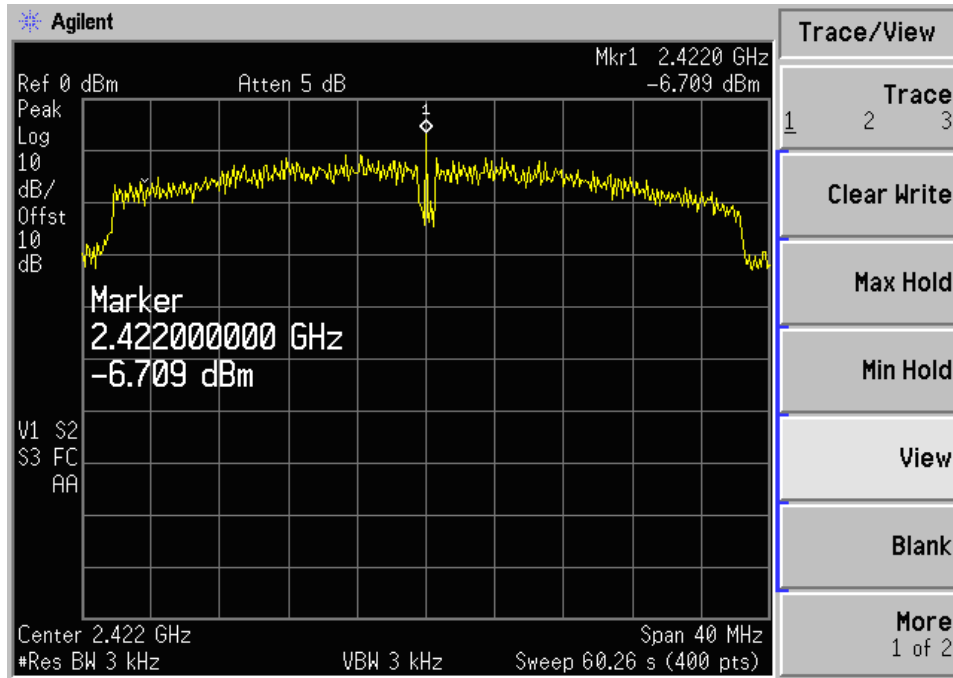


High Channel:

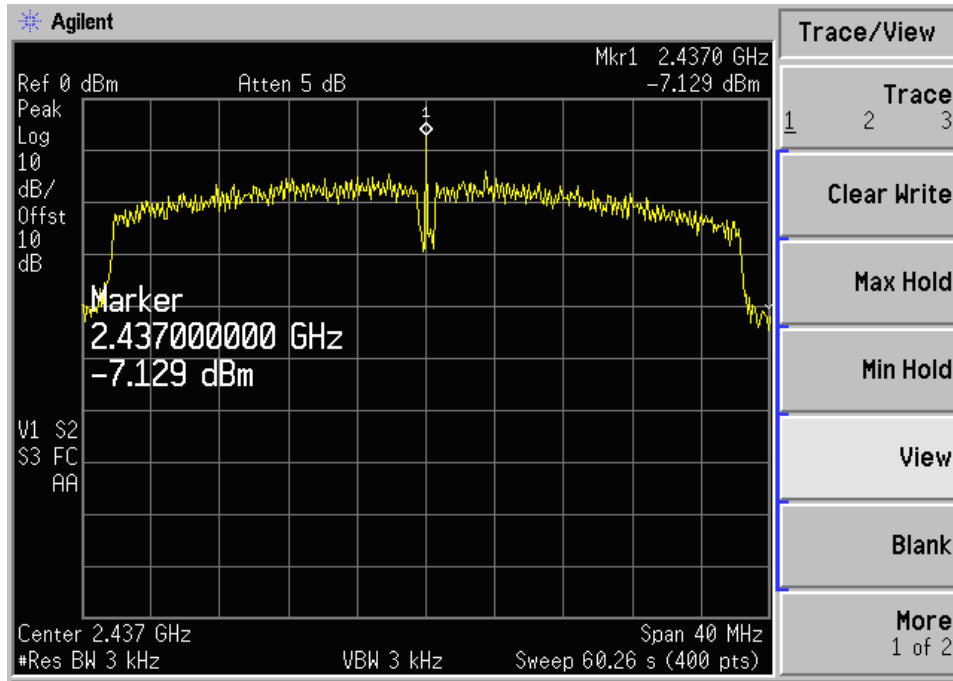


For 802.11n HT40

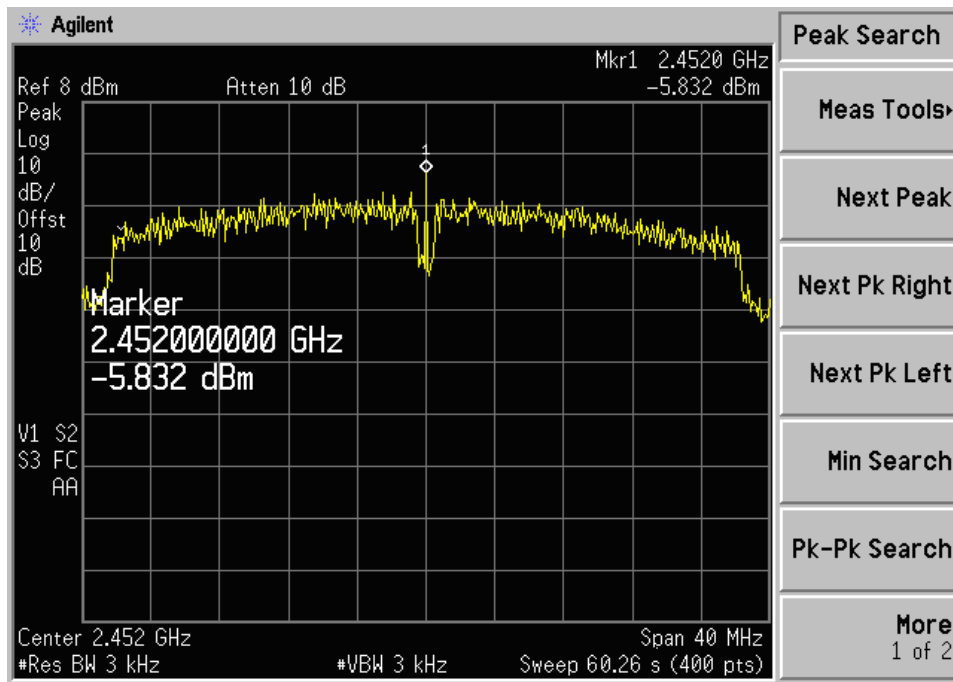
Low Channel:



Middle Channel:



High Channel:



## 6. 6DB BANDWIDTH

### 6.1 Standard Applicable

According to 15.247(a)(2), systems in the 2400–2483.5 MHz band, the 6dB bandwidth shall be at least 500kHz.

### 6.2 Test Procedure

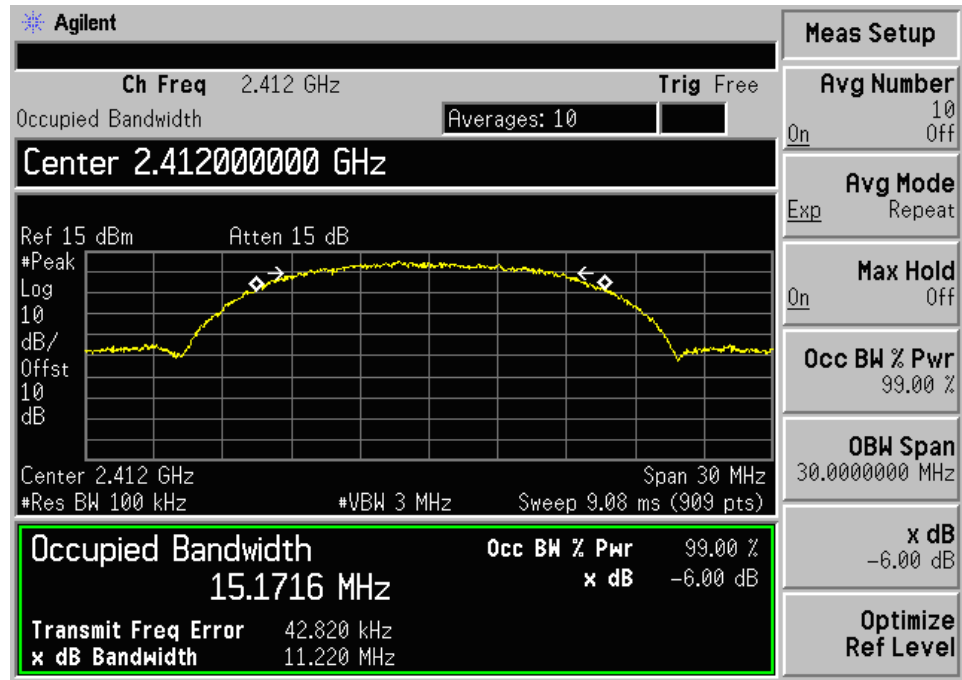
Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.  
 Equipment mode: Spectrum analyzer  
 RBW: 300 kHz  
 VBW: 3MHz  
 SPAN: >Transmit Span

### 6.3 Measuring Results

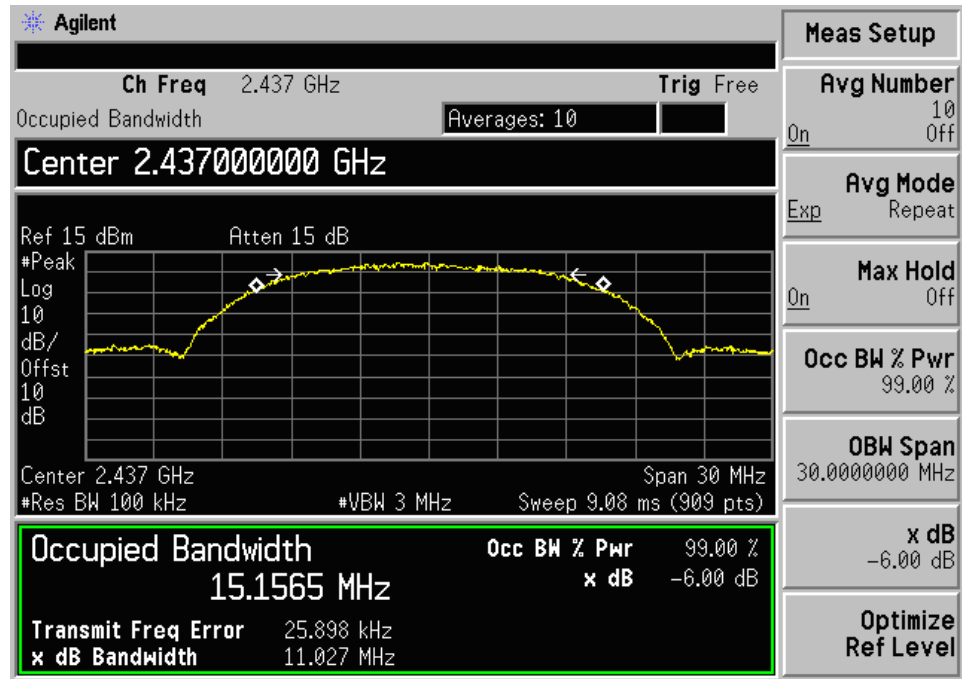
Refer to the test record table following as:

Mode	Channel (MHz)	Test Result (kHz)	Limit (kHz)	Pass/Fail
802.11b	2412	11220	>500	Pass
	2437	11027	>500	Pass
	2462	11192	>500	Pass
802.11g	2412	16240	>500	Pass
	2437	16209	>500	Pass
	2462	16240	>500	Pass
802.11n HT20	2412	16310	>500	Pass
	2437	16362	>500	Pass
	2462	16334	>500	Pass
802.11n HT40	2422	36200	>500	Pass
	2437	36159	>500	Pass
	2452	35757	>500	Pass

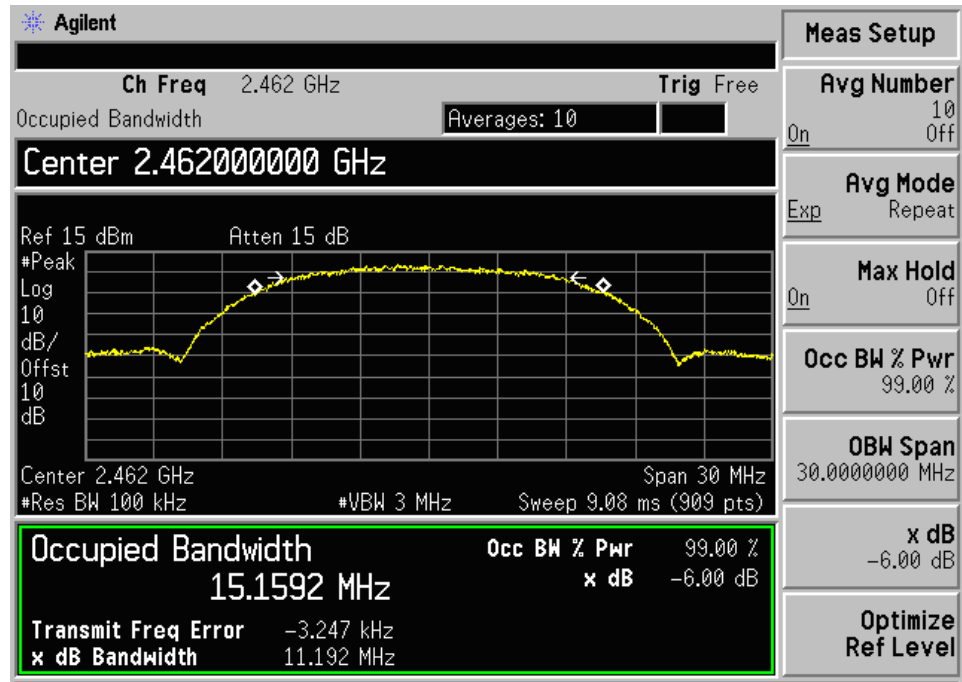
Refer to the test diagram following as:  
 802.11b Mode  
 Low channel



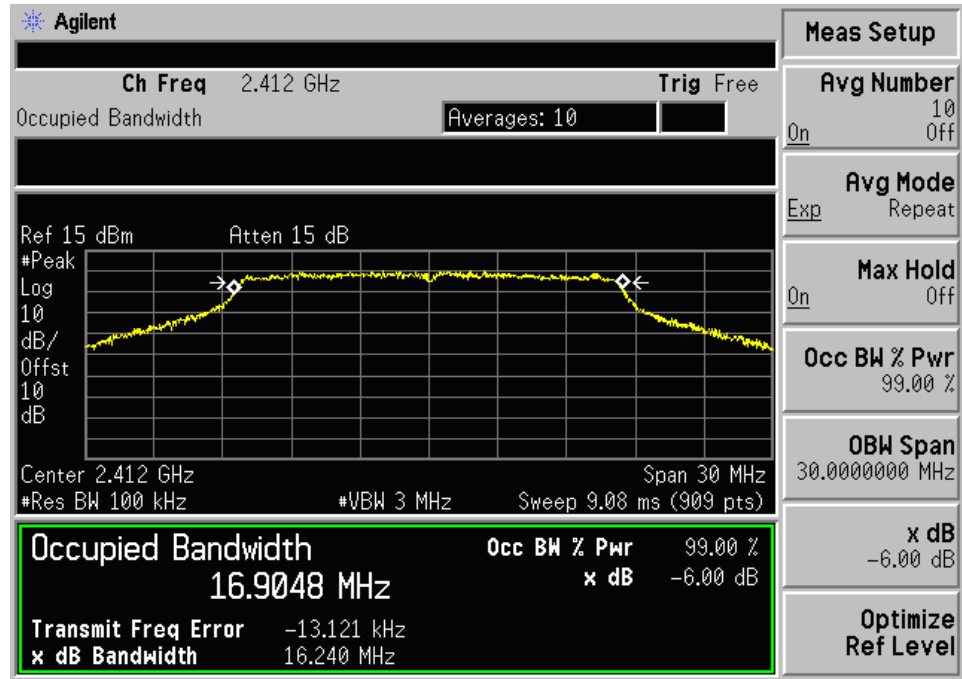
Middle Channel:



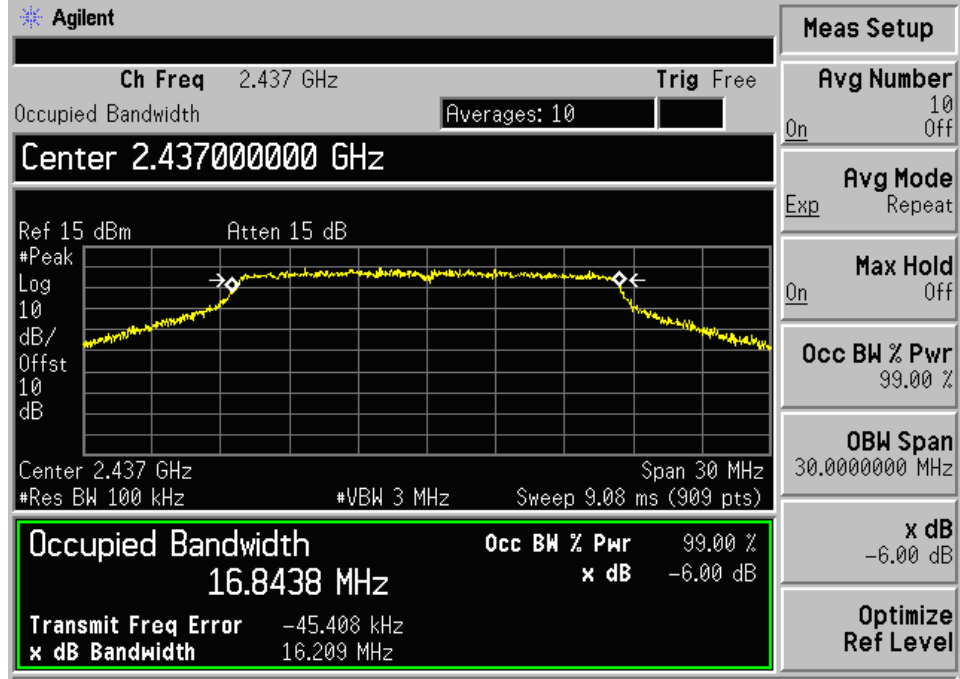
High Channel:



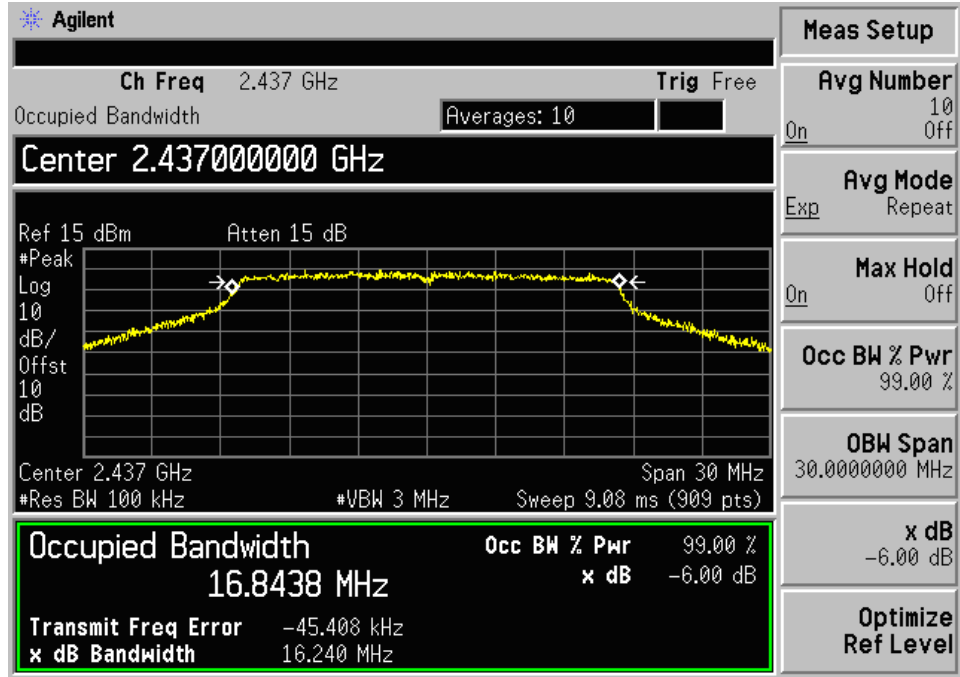
802.11g Mode  
Low channel



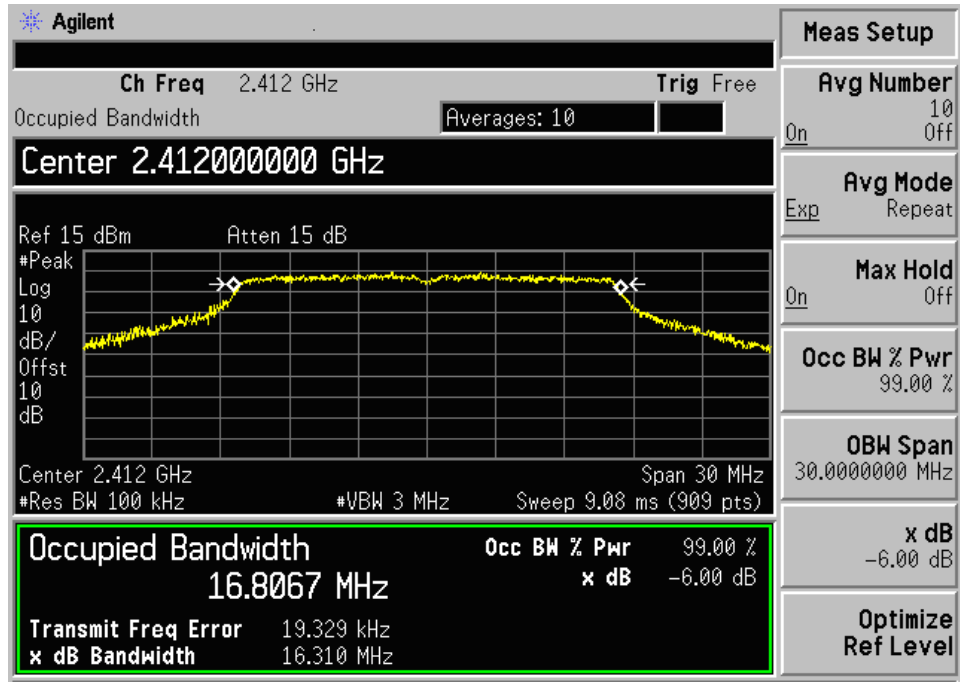
Middle Channel:



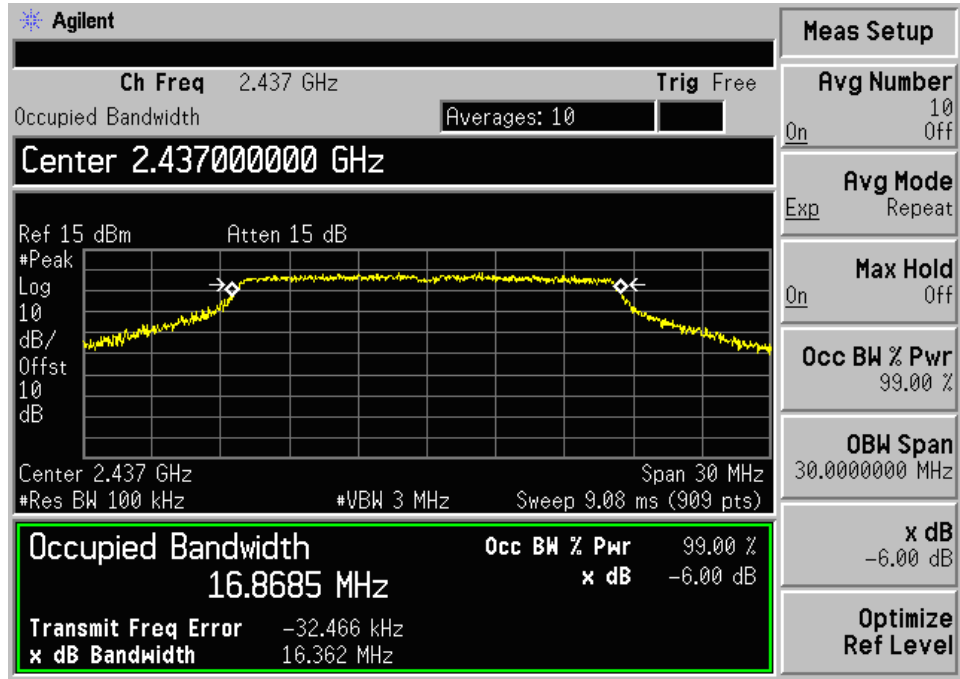
High Channel



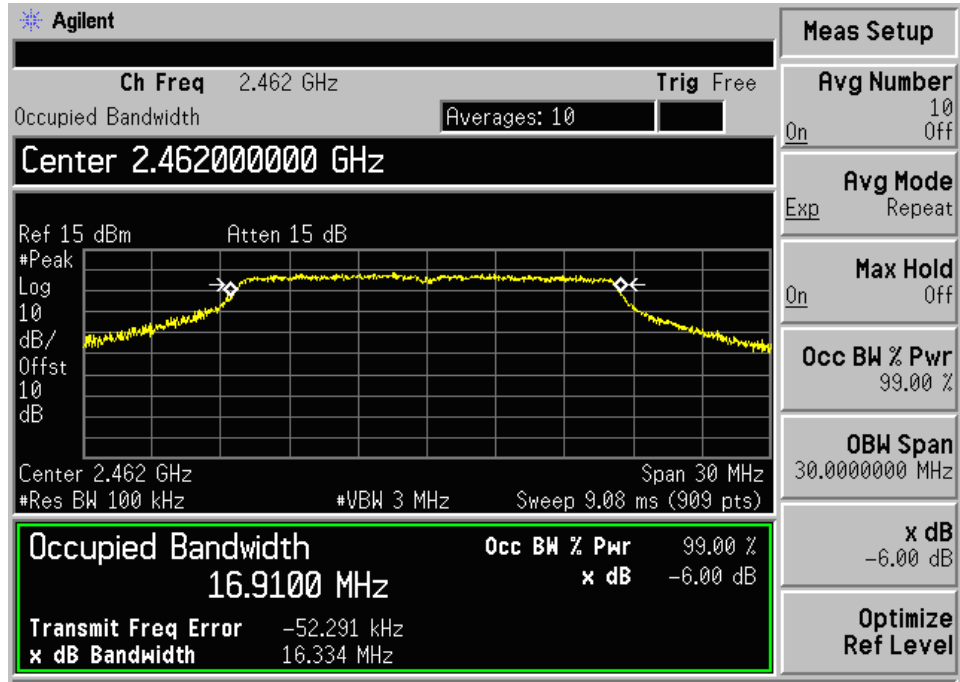
802.11n HT20 Mode  
Low channel



Middle Channel:

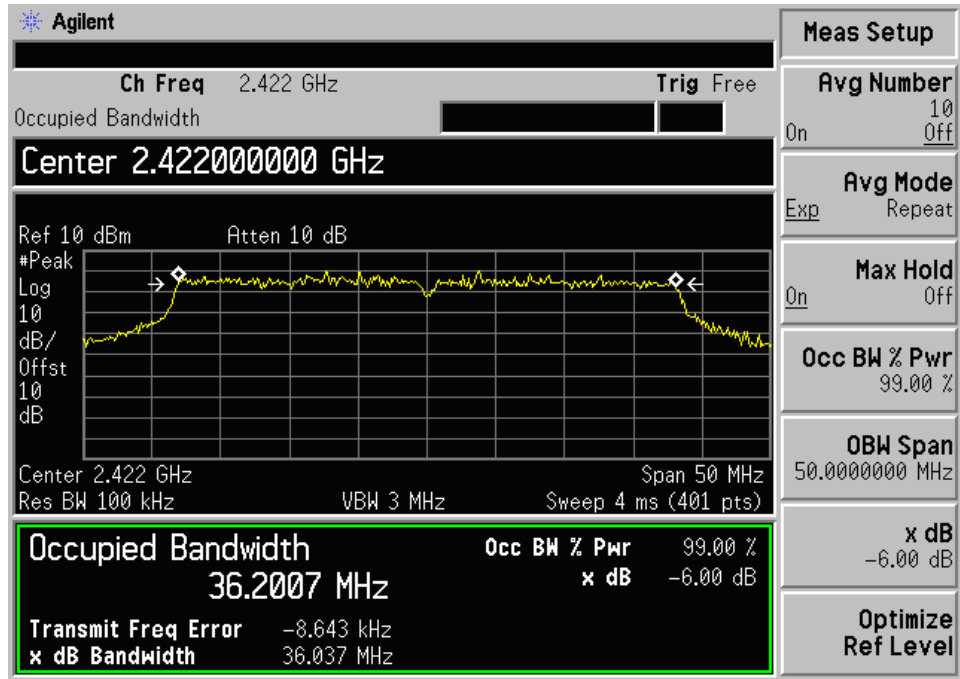


High Channel:



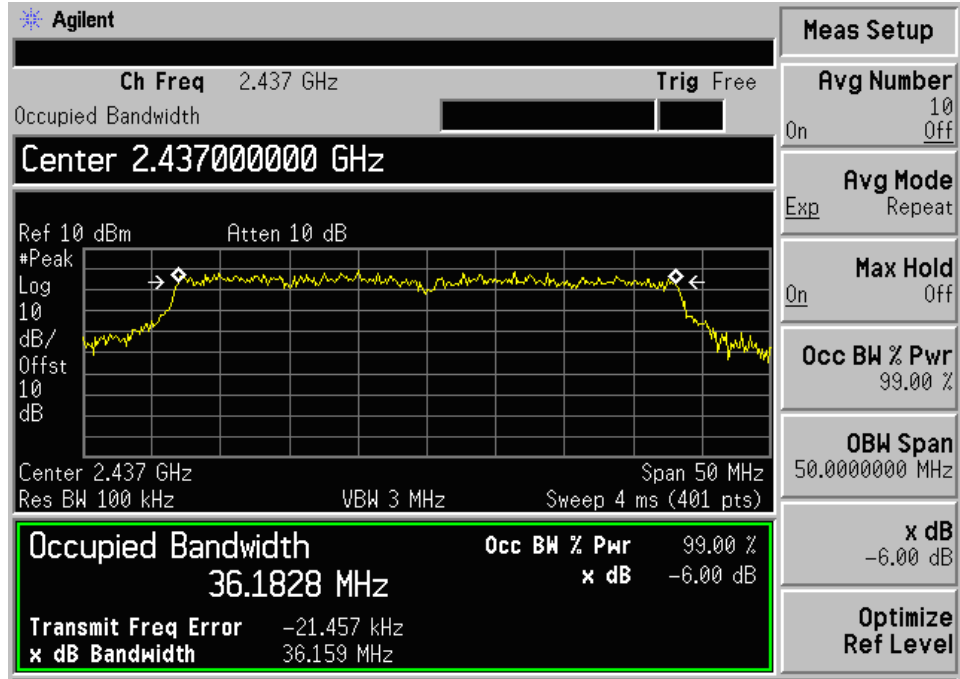
802.11N HT40 Mode

Low channel

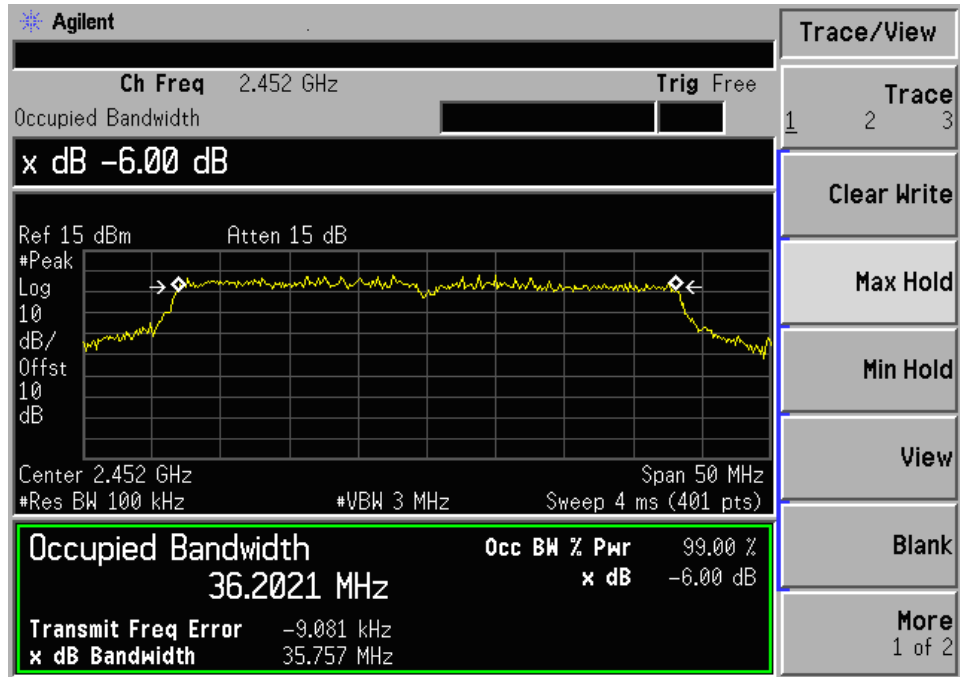




Middle Channel:



High Channel



## 7. MAX PEAK POWER MEASUREMENT

### 7.1 Standards Applicable

According to 15.247(b)(3). For digital modulation systems operating in the 2400–2483.5  
The power is less 1 watt.

### 7.2 Test Procedure

The Transmitter output of EUT was connected to the Spectrum analyzer.  
Equipment mode Spectrum analyzer  
RBW > the 20 dB bandwidth of the emission being measured  
VBW  $\geq$  RBW  
SPAN > Transmit bandwidth  
Center frequency fundamental frequency tested  
Sweep time auto

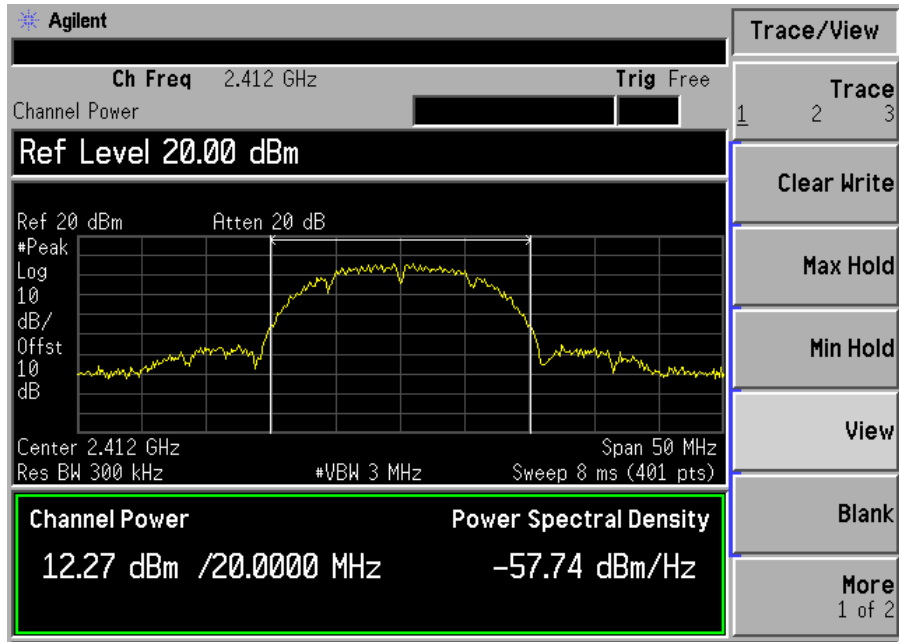
### 7.3 Test data

Refer the following table of testing data

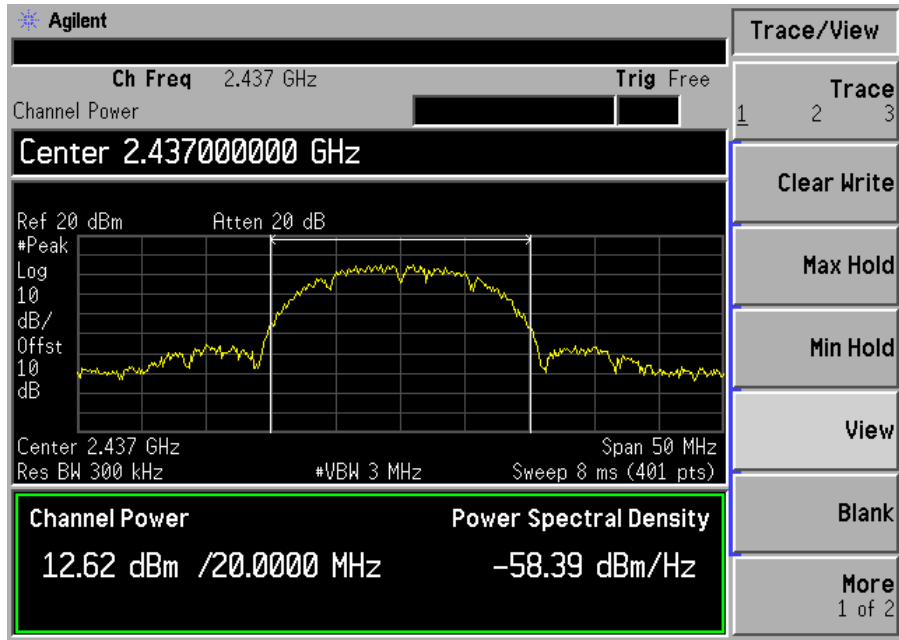
Channel	Frequency (MHz)	Peak Power (dBm)	Peak Power (W)	Limit (dBm)	Pass/Fail
802.11b	2412	12.27	0.016866	30	Pass
	2437	12.62	0.018281	30	Pass
	2462	11.61	0.014488	30	Pass
802.11g	2412	11.22	0.013243	30	Pass
	2437	12.47	0.01766	30	Pass
	2462	11.31	0.013521	30	Pass
802.11n HT20	2412	11.34	0.013614	30	Pass
	2437	11.64	0.014588	30	Pass
	2462	11.01	0.012618	30	Pass
802.11n HT40	2422	10.45	0.011092	30	Pass
	2437	10.24	0.010568	30	Pass
	2452	10.02	0.010046	30	Pass

Following the test diagram:

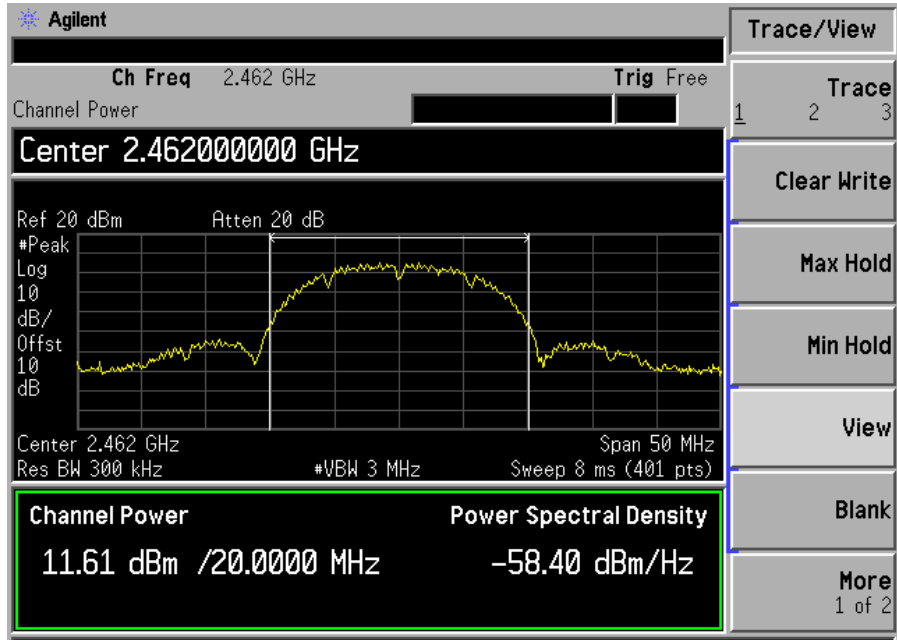
802.11b Mode  
Low channel



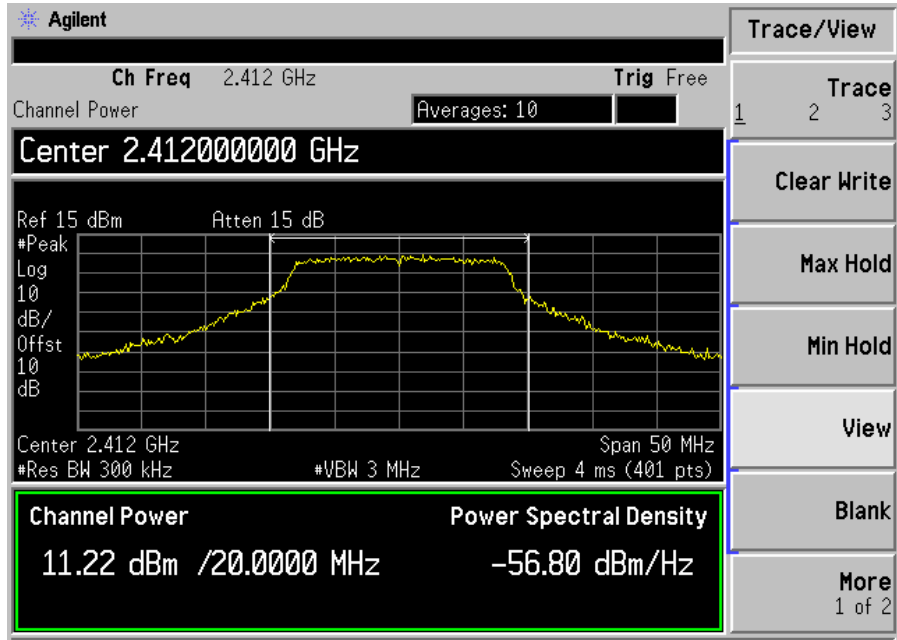
Middle Channel:



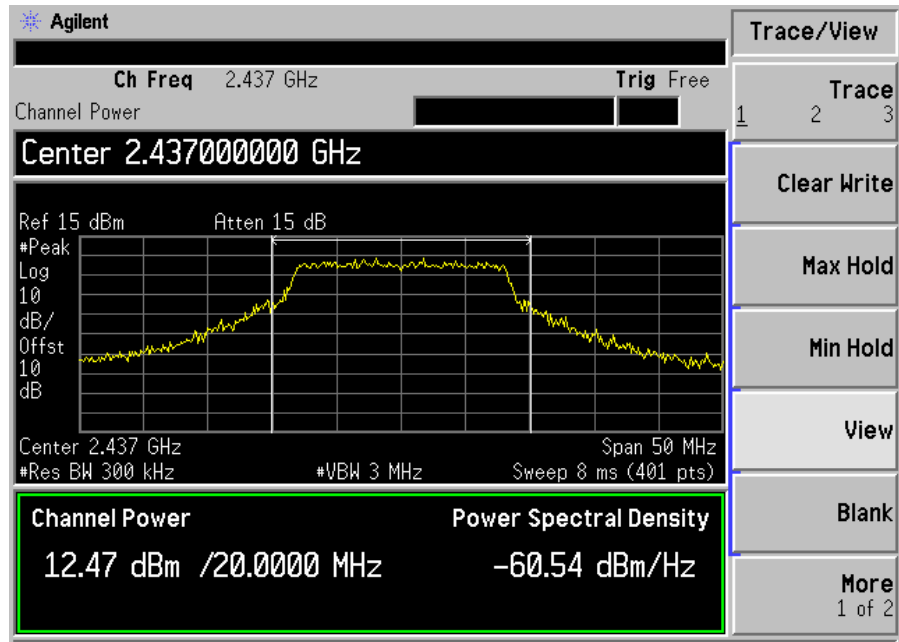
High Channel:



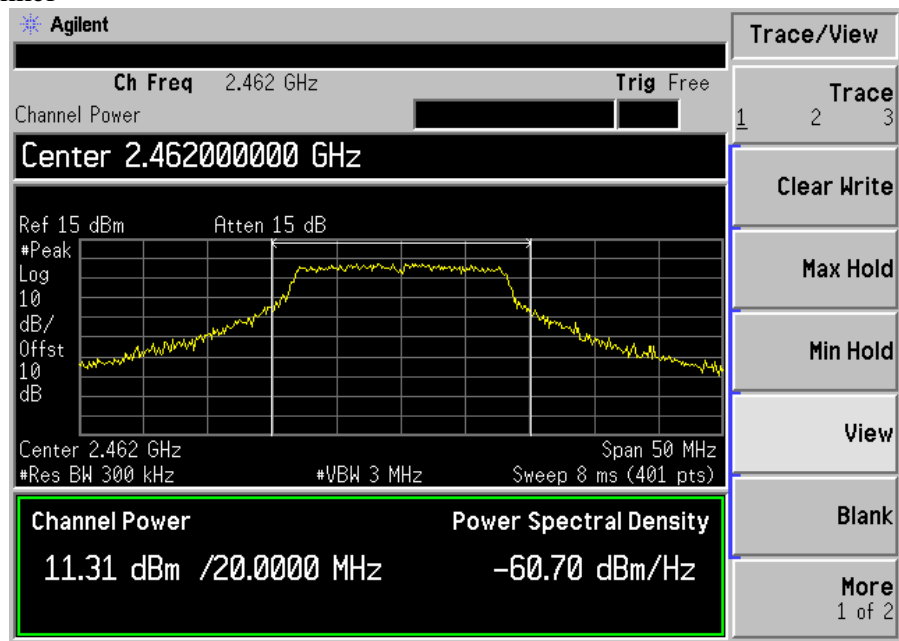
802.11g Mode  
Low channel



Middle Channel:

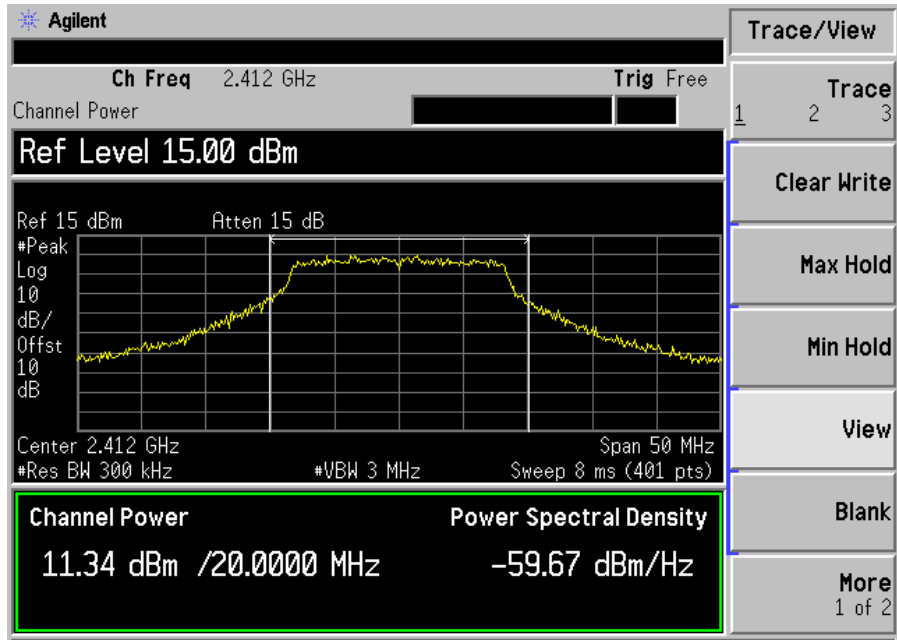


High Channel

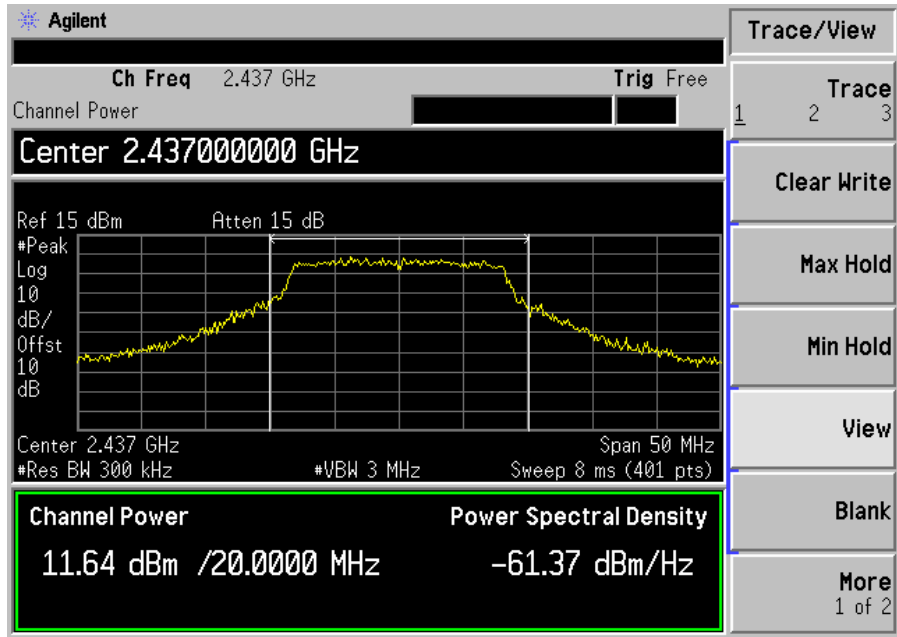


802.11n HT20 Mode

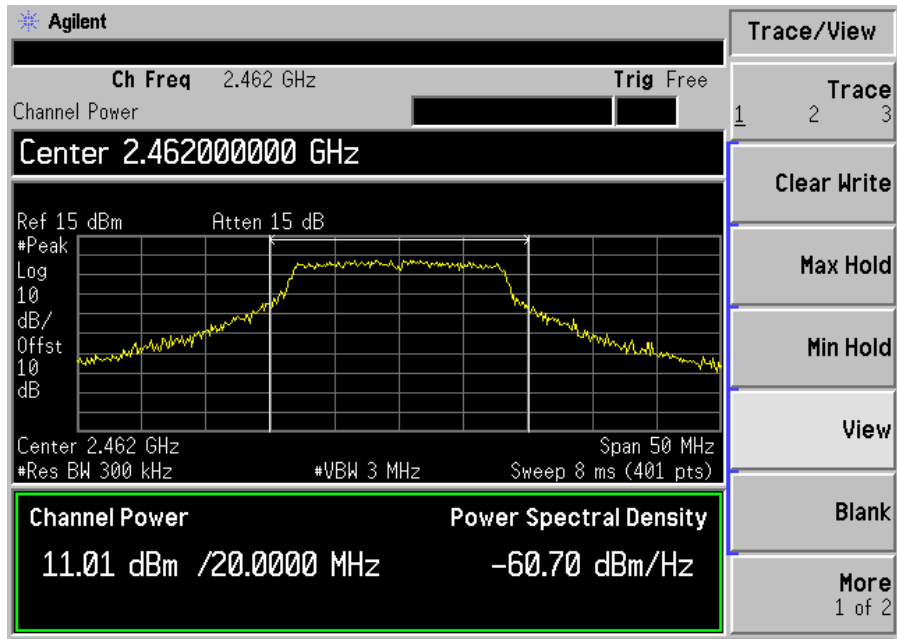
Low channel



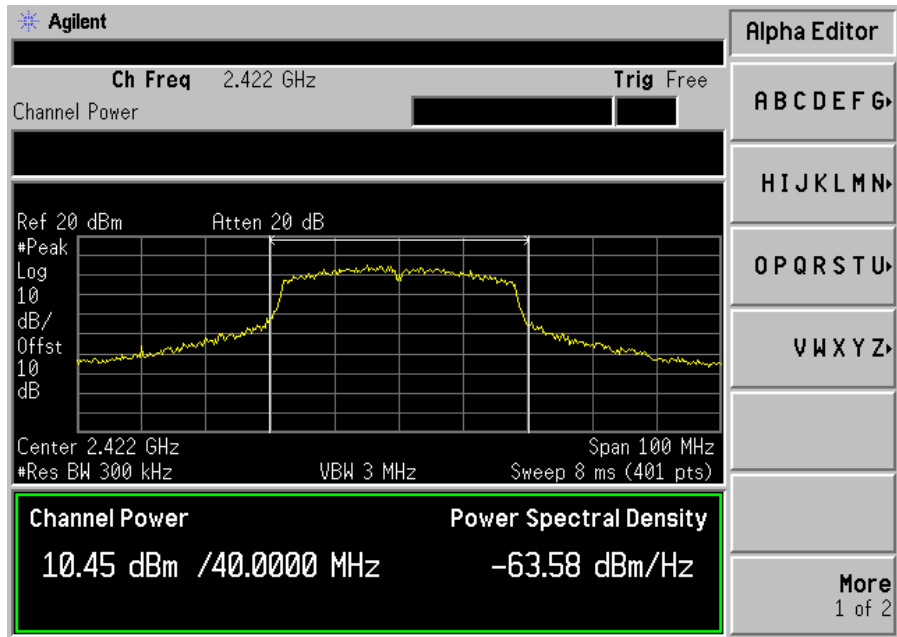
Middle Channel:



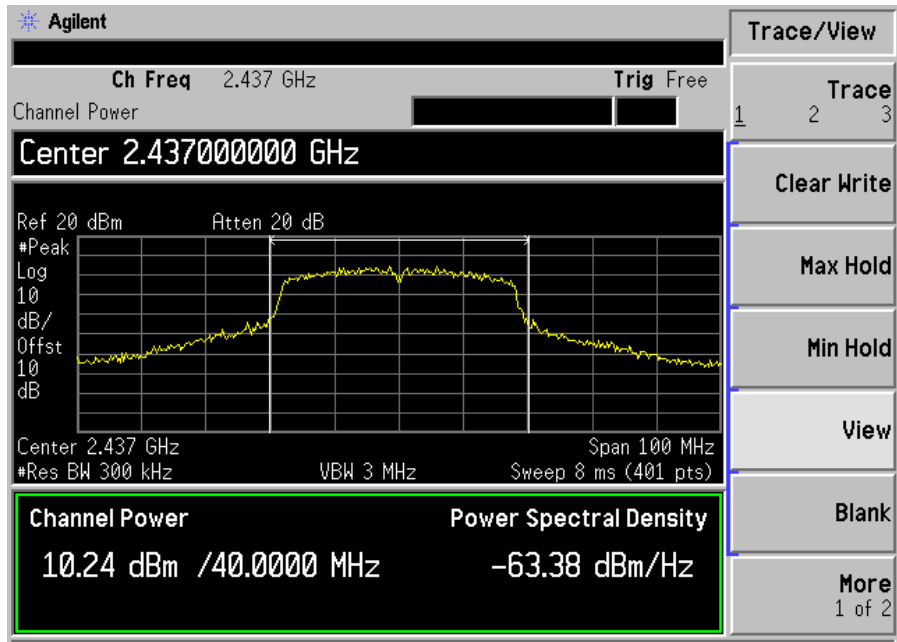
High Channel:



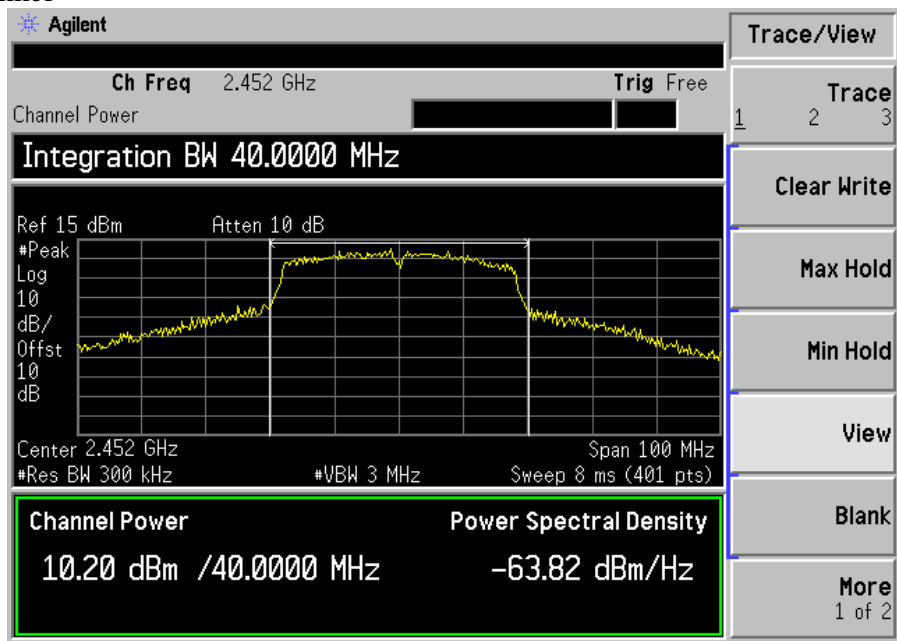
802.11N HT40 Mode  
Low channel



Middle Channel:



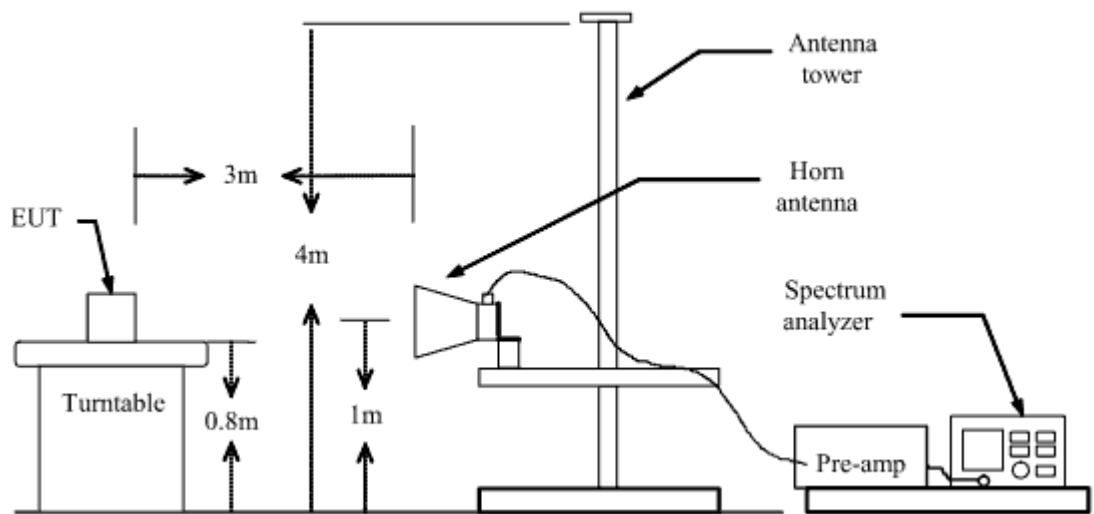
High Channel





## 8. SPURIOUS RADIATED EMISSION MEASUREMENT

### 8.1 Block Diagram of Test Setup



### 8.2 Measuring Standard

According to FCC 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

### 8.3 Test Procedure

The system was set up as described above, with the EMI diagnostic software running. We found the maximum readings by varying the height of antenna and then rotating the turntable. Both polarization of antenna, horizontal and vertical, are measured.

**30M to 1GHz:** The highest emissions between 30 MHz to 1000 MHz were also analyzed in details by operating the spectrum analyzer and/or EMI receiver in quasi-peak mode to determine the precise amplitude of the emissions. While doing so, the interconnecting cables and major parts of the system were moved around, the antenna height was varied between one and four meters, its polarization was varied between vertical and horizontal, and the turntable was slowly rotated, to maximize the emission.

**1GHz– 25GHz:** The highest emissions were also analyzed in details by operating the spectrum analyzer and/or EMI receiver in peak mode to determine the precise amplitude of the emission. While doing so, the interconnecting cables and major parts of the system were moved around,

the antenna height was varied between one and four meters, its polarization was varied between vertical and horizontal, and the turntable was slowly rotated, to maximize the emission. During test the EMI receiver and spectrum was setup according to EMI Receiver/Spectrum Analyzer Configuration.

For the test of 2nd to 10th harmonics frequencies, the equipment setup was also referred to EMI Receiver/Spectrum Analyzer Configuration. The frequencies were tested using Peak mode first, if the test data is higher than the emissions limit, an additional measurement using Average mode will be performed and the average reading will be compared to the limit and record in test report.

## 8.4 Test data

Refer the following table of testing data

For 9kHz-1GHz Field Radiated Emission(802.11n Transmitting Mode, Worst frequency point record)  
Horizontal

Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	TablePos (°)
348.5145	28.92	10.63	39.55	46.00	-6.45	100	32
398.2962	27.93	11.40	39.33	46.00	-6.67	100	345
250.4859	28.99	8.70	37.69	46.00	-8.31	121	5
298.5932	27.55	9.75	37.30	46.00	-8.70	100	49
148.9175	27.24	4.07	31.31	43.50	-12.19	100	0
200.0432	25.80	6.58	32.38	43.50	-11.12	100	321

Vertical:

Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	TablePos (°)
598.7067	25.77	14.15	39.92	46.00	-6.08	100	70
455.1888	27.07	11.39	38.46	46.00	-7.54	100	55
343.6506	26.61	10.52	37.13	46.00	-8.87	100	344
99.7676	23.77	8.41	32.18	43.50	-11.32	150	23
261.2730	24.08	8.98	33.06	46.00	-12.94	100	0
598.7067	25.77	14.15	39.92	46.00	-6.08	100	112

Note: No found any spurious emission below 30MHz.

For 1GHz-25GHz Radiated Emission (802.11b Transmitting Mode, Worst frequency point record)  
Horizontal

Frequency	Detector	Reading	Correct Amp.+Loss	Result	Limit	Margin	Ant. Pos	TablePos
MHz	PK/AV	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(° )
4824	AV	44.00	6.30	50.30	54	-3.7	100	232
7236	AV	39.10	7.20	46.30	54	-7.7	100	24
4874	AV	39.64	6.30	45.94	54	-8.06	100	354
7331	AV	38.77	7.50	46.27	54	-7.73	100	89
4924	AV	35.91	6.30	42.21	54	-11.79	100	65
7386	AV	40.10	7.60	47.70	54	-6.3	100	1
4824	PK	47.32	6.30	53.62	74	-20.38	100	66
7236	PK	45.98	7.20	53.18	74	-20.82	100	58
4874	PK	43.21	6.30	49.51	74	-24.49	100	97
7331	PK	41.09	7.50	48.59	74	-25.41	100	4
4924	PK	44.23	6.30	50.53	74	-23.47	100	87
7386	PK	42.42	7.60	50.02	74	-23.98	100	45

## 9. OUT OF BAND EDGE EMISSION TEST

### 9.1 Test Standard

According to §15.247 (d) 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, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 9.2 Test Procedure

Conducted

1. The transmitter output of EUT was connected to the spectrum analyzer.

Equipment mode: Spectrum analyzer

Detector function: Peak mode

SPAN: 10MHz

RBW: 100KHz

VBW: 100KHz

2. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed

3. Find the next peak frequency outside the operation frequency band Radiated

Antenna and Turntable test procedure same as Radiated Emission Measurement.

Equipment mode: Spectrum analyzer

Detector function: Peak mode

SPAN: 10MHz

RBW: 100KHz

VBW: 100KHz

Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed

Find the next peak frequency outside the operation frequency

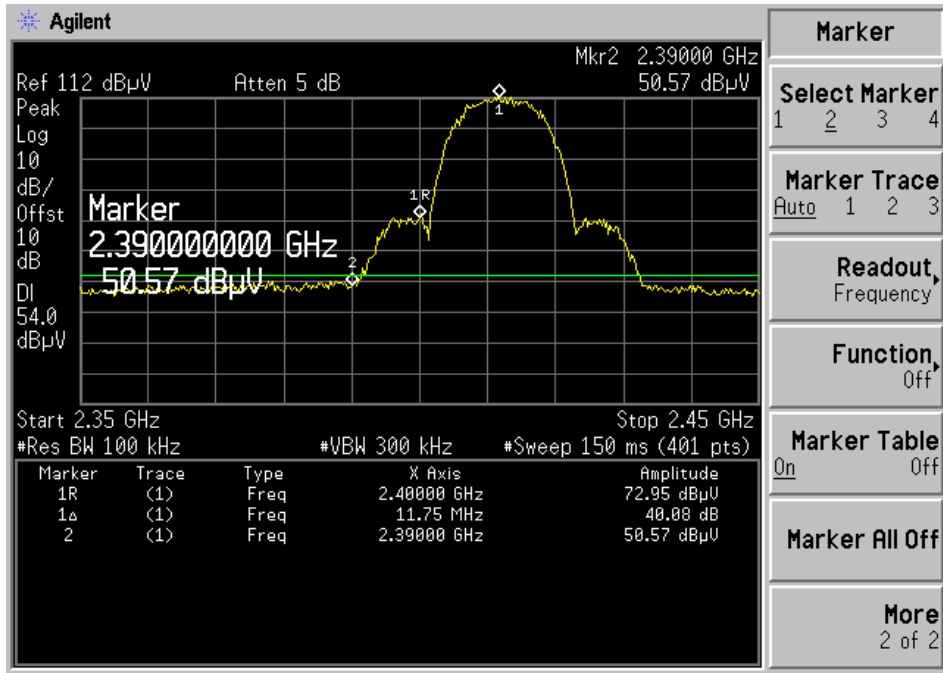
### 9.3 Test Results

Please refer to the following table and diagram page

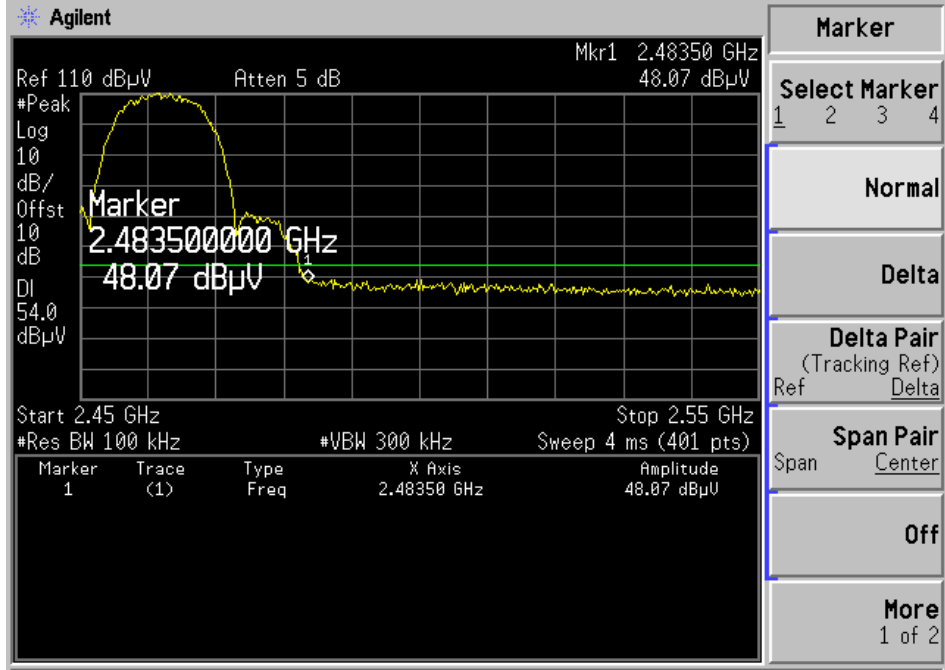
Mode	Frequency (MHz)	Carrier outside Band (<54dBuV/ >20dB)	Pass/Fail
802.11b	2390	<54dBuV	Pass
	2400	>20dB	Pass
	2497.8	<54dBuV	Pass
802.11g	2390	<54dBuV	Pass
	2400	>20dB	Pass
	2497.8	<54dBuV	Pass

Mode	Frequency (MHz)	Carrier outside Band (<54dBuV/ >20dB)	Pass/Fail
802.11n HT20	2390	<54dBuV	Pass
	2400	>20dB	Pass
	2497.8	<54dBuV	Pass
802.11n HT40	2390	<54dBuV	Pass
	2400	>20dB	Pass
	2497.8	<54dBuV	Pass

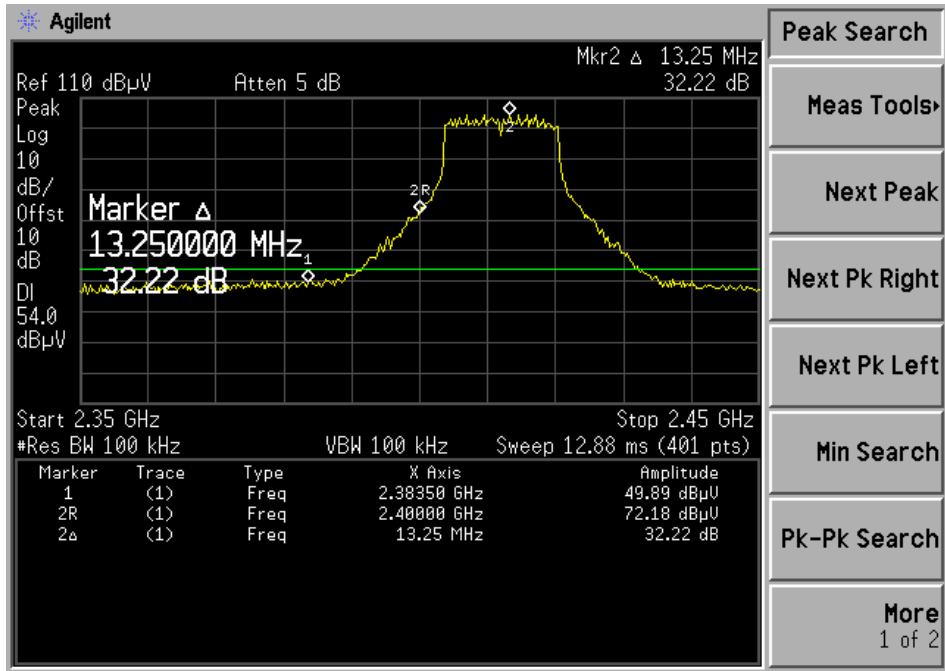
Conducted Mode:  
802.11b  
Low Band



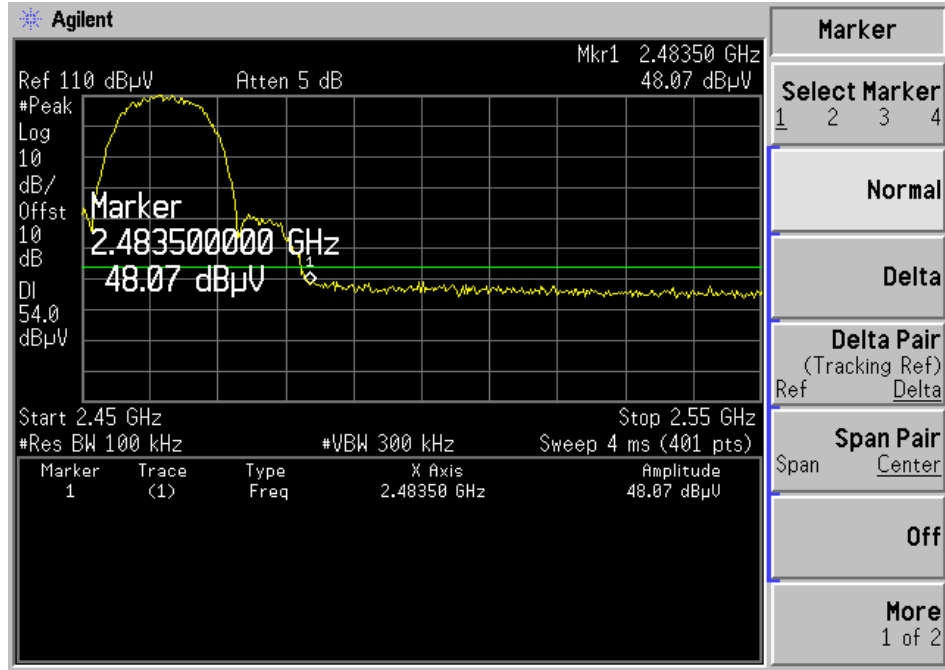
High Band



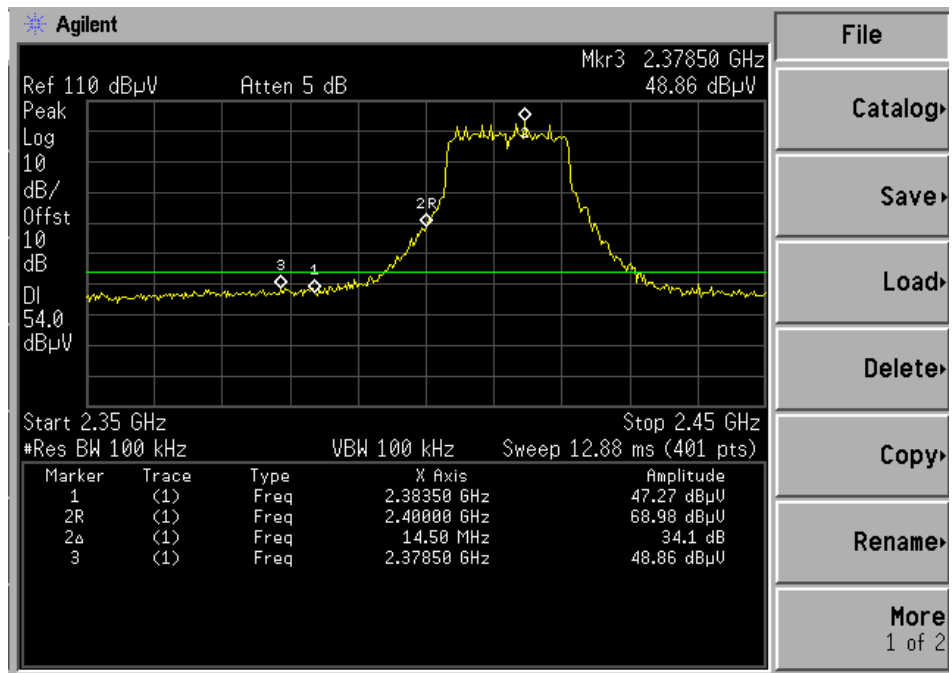
802.11g  
Low Band



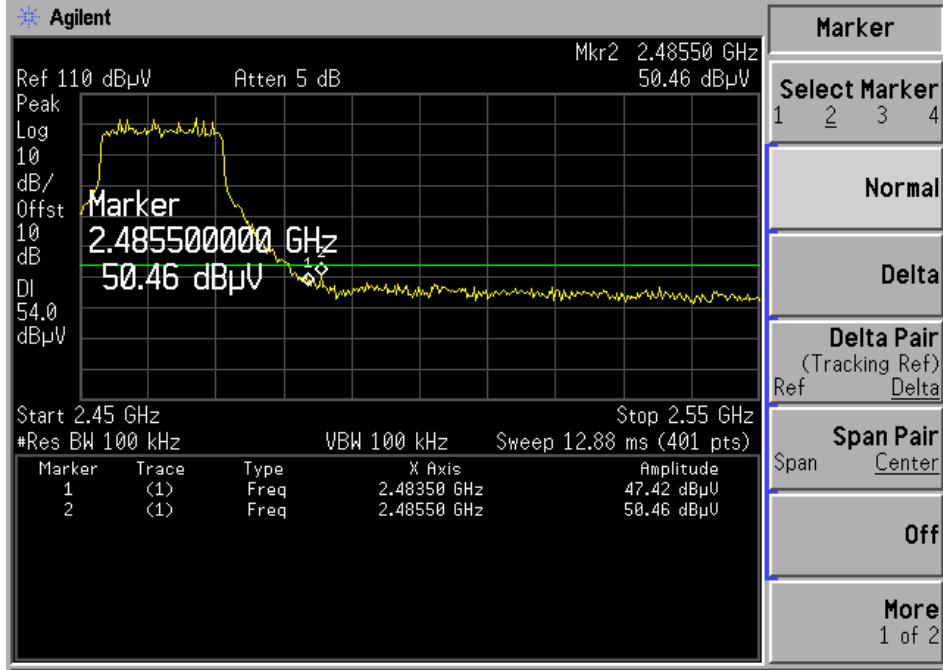
High Band



802.11n HT20  
Low Band

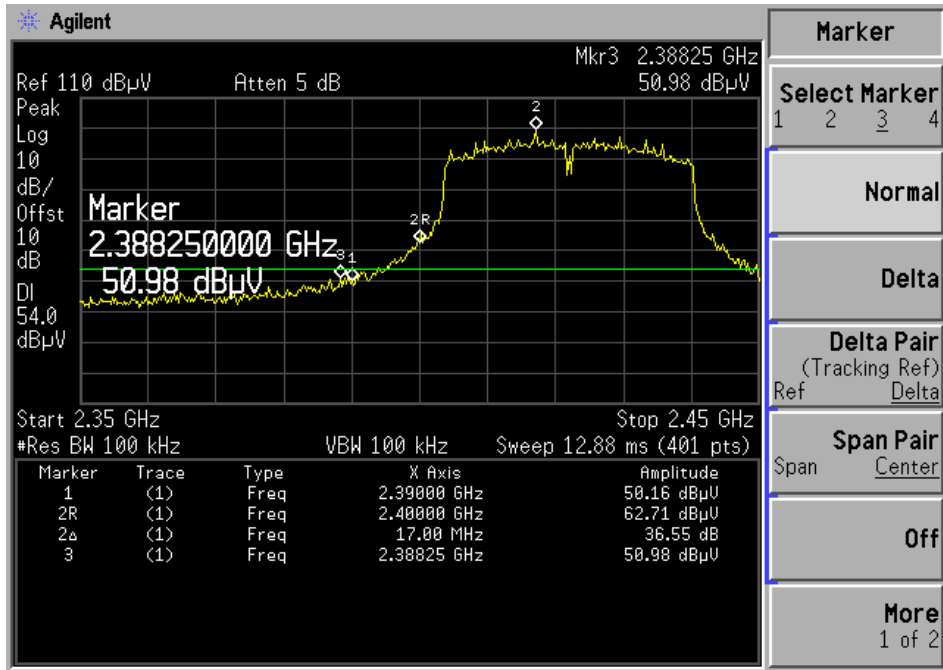


High Band



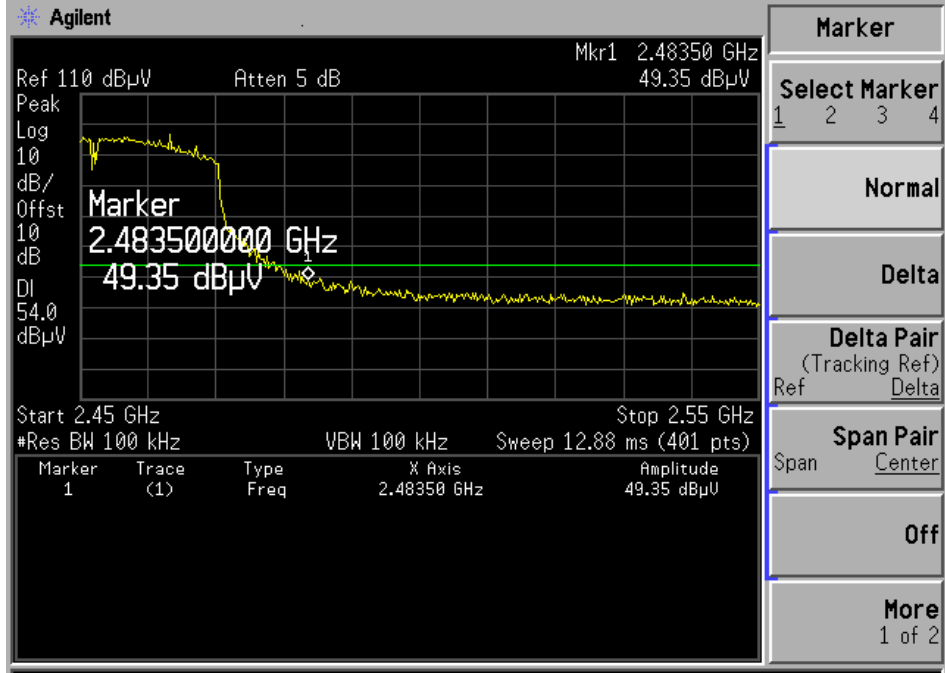
802.11n HT40

Low Band

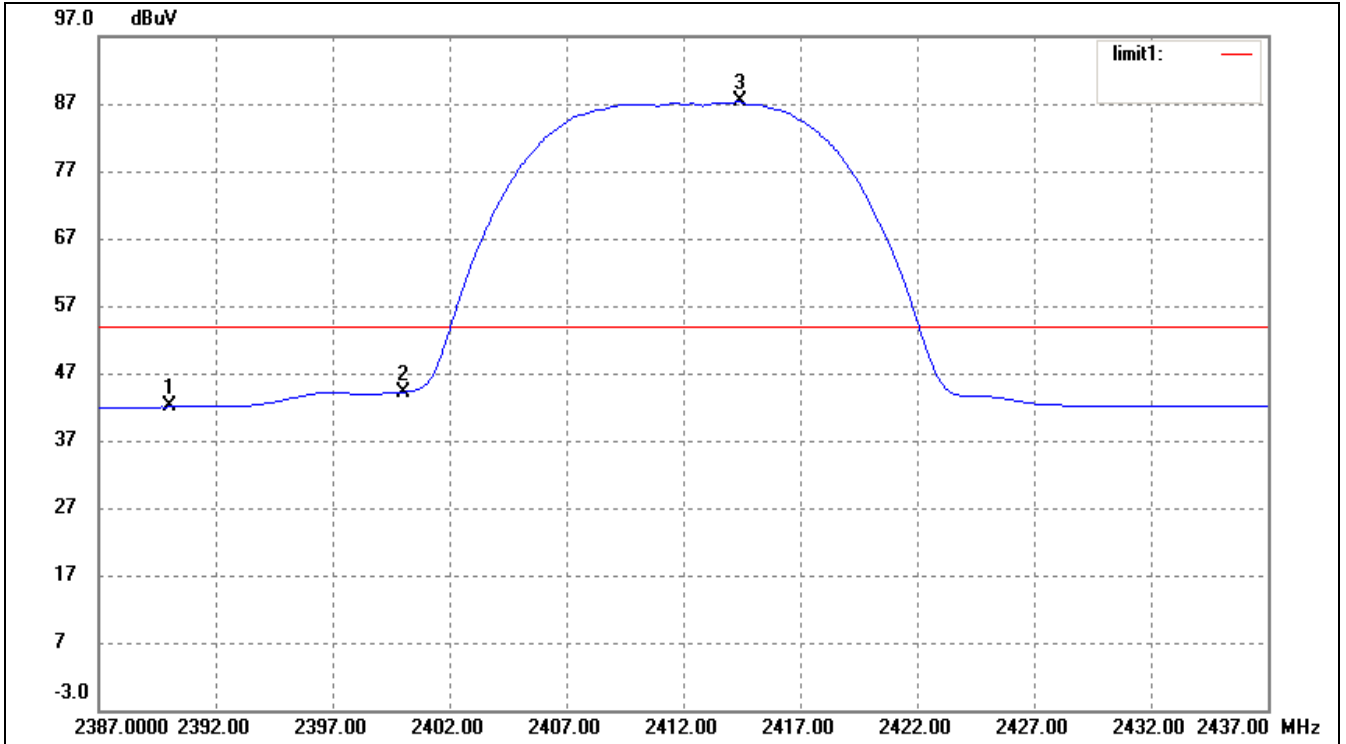




High Band

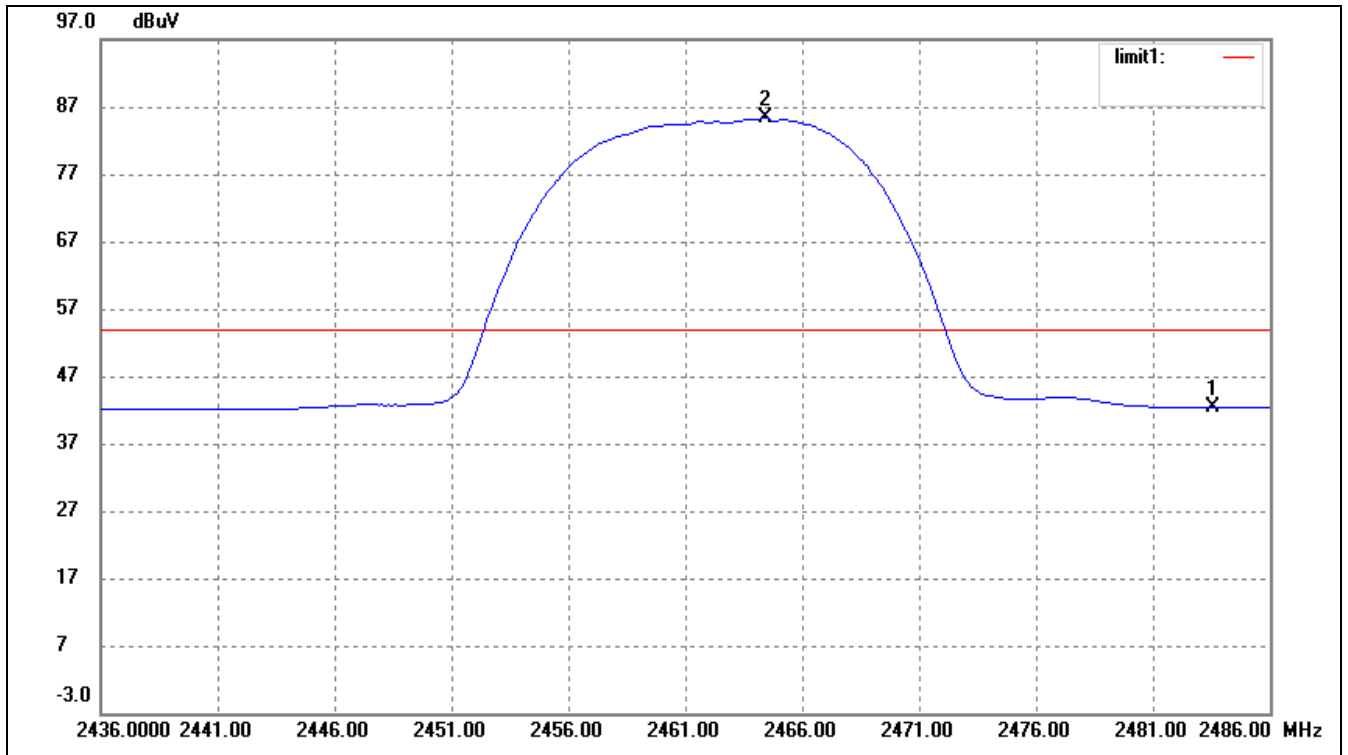


Radiated Mode  
 802.11b  
 Lowest Bandedge



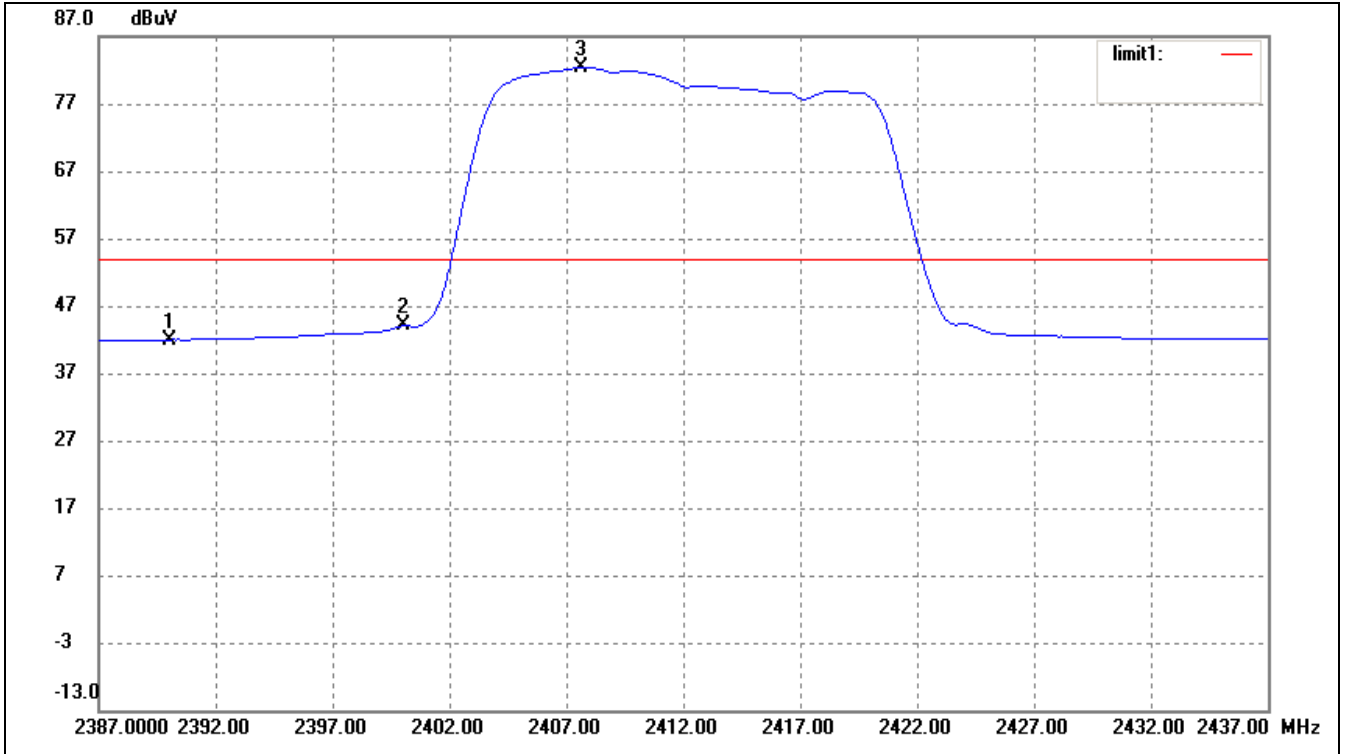
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2390	7.42	30.01	37.43	54	-16.57	Ave
	2390	27.78	30.01	57.79	74	-16.21	peak
2	2400	9.55	30.21	39.76	54	-14.24	Ave

Highest Bandedge



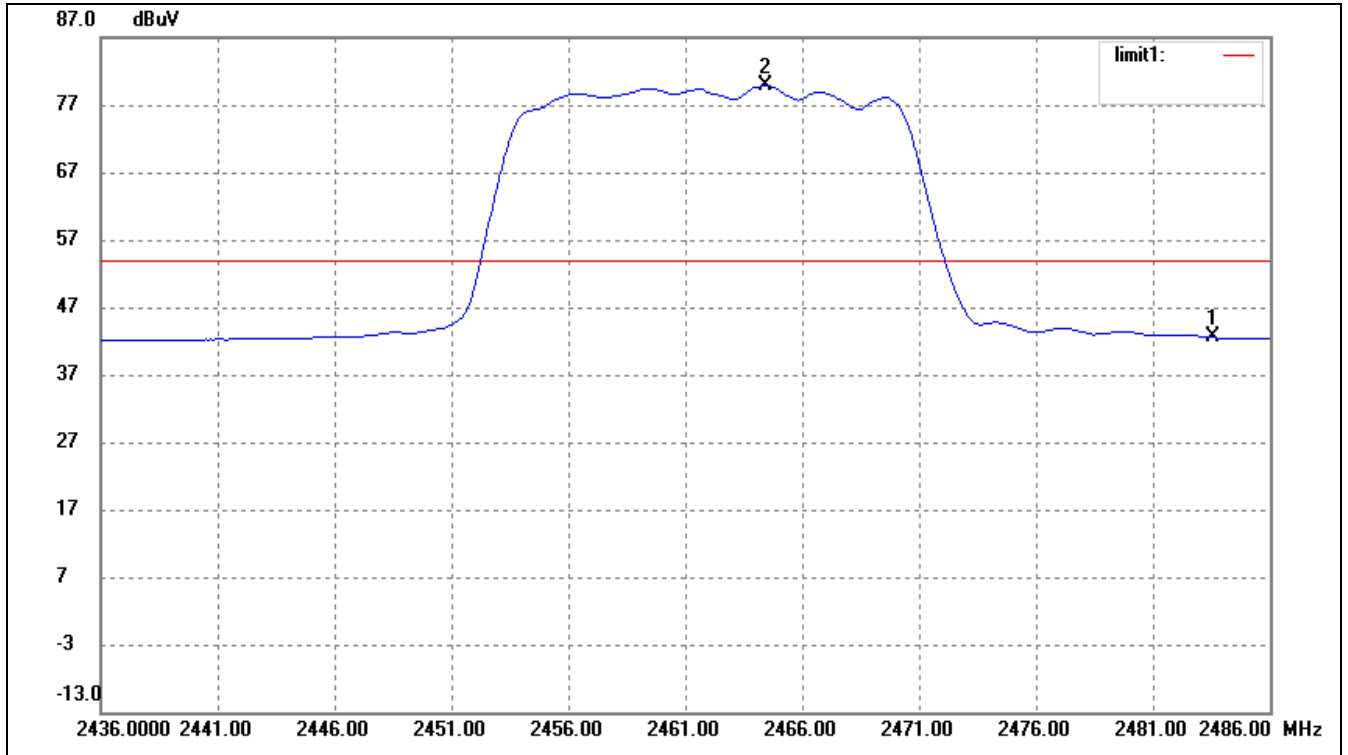
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.5	7.41	31.01	38.42	54	-15.58	Ave
	2483.5	28.16	31.01	59.17	74	-14.83	peak

**For 802.11g**  
Lowest Bandedge



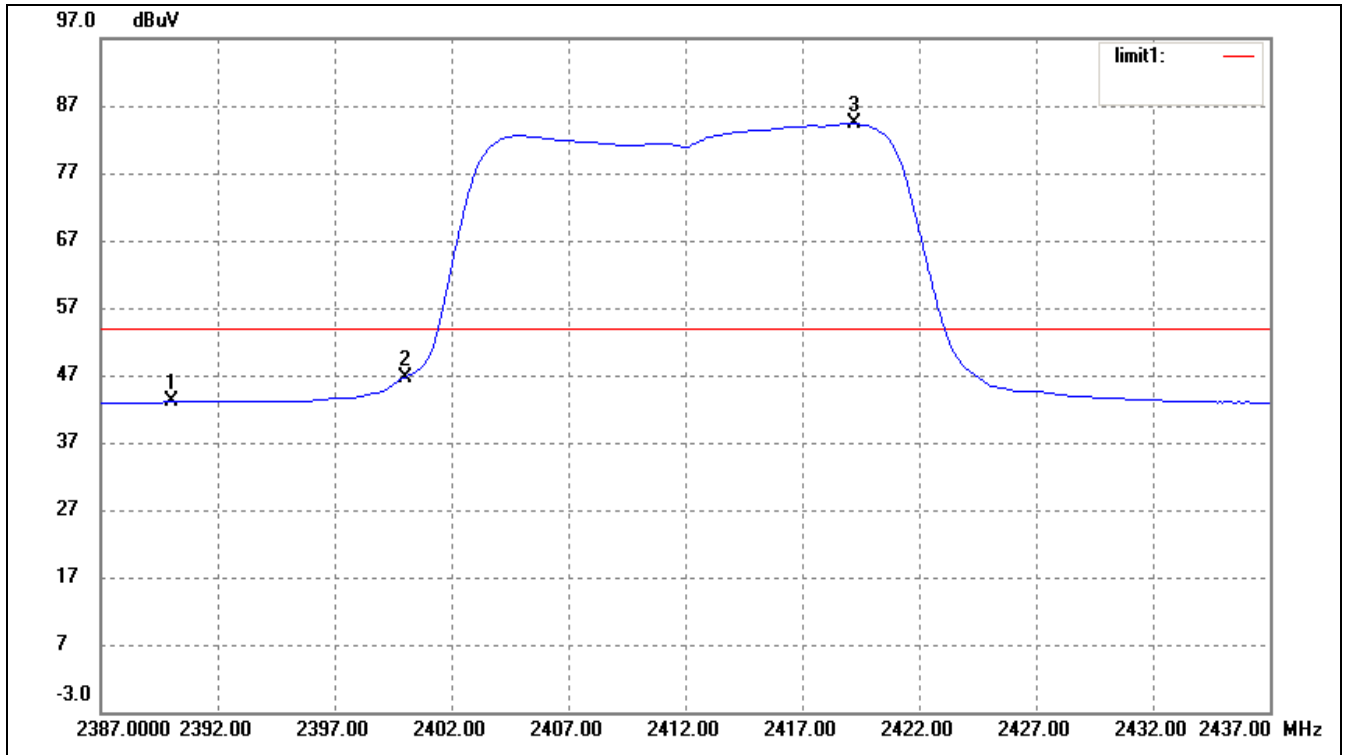
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2390	7.39	30.01	37.4	54	-16.6	Ave
	2390	28.19	30.01	58.2	74	-15.8	peak
2	2400	9.35	30.21	39.56	54	-14.44	Ave

Highest Bandedge



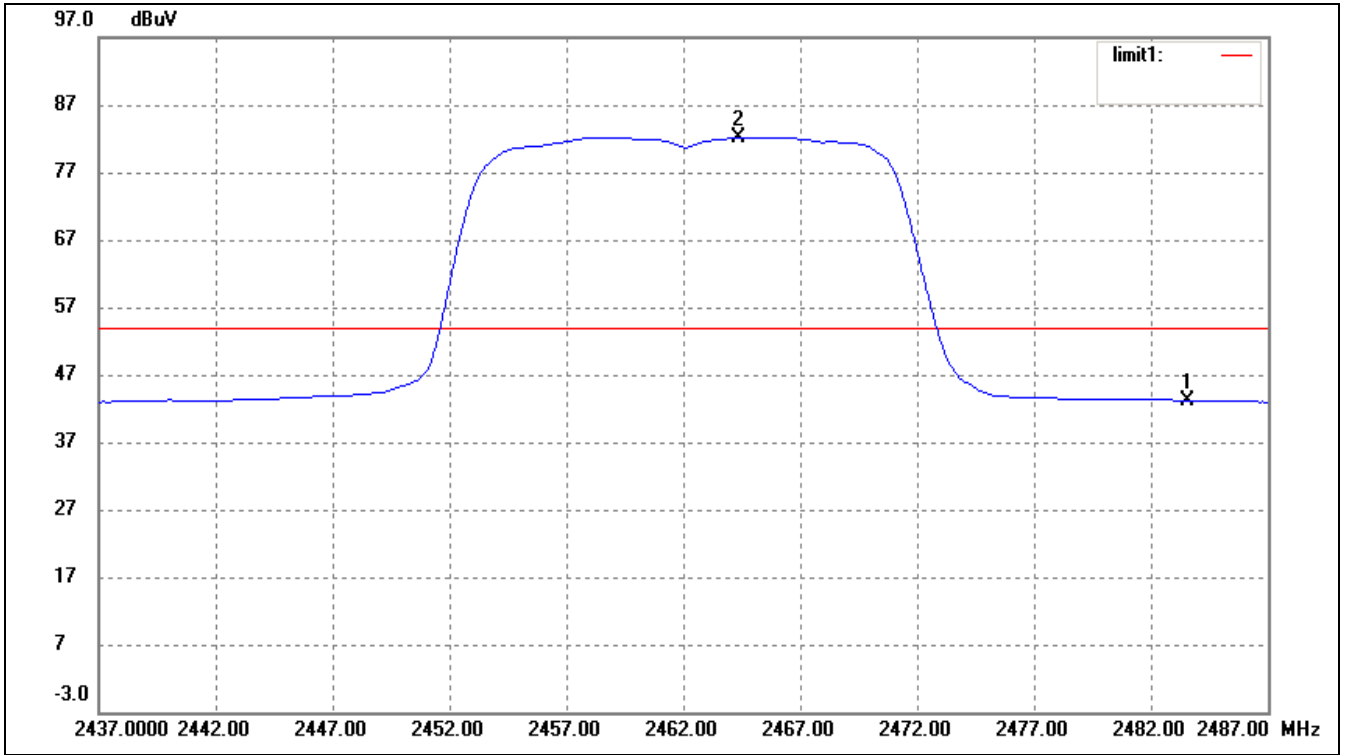
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.5	7.57	31.01	38.58	54	-15.42	Ave
	2483.5	28.61	31.01	59.62	74	-14.38	peak

**For 802.11n HT20**  
 Lowest Bandedge



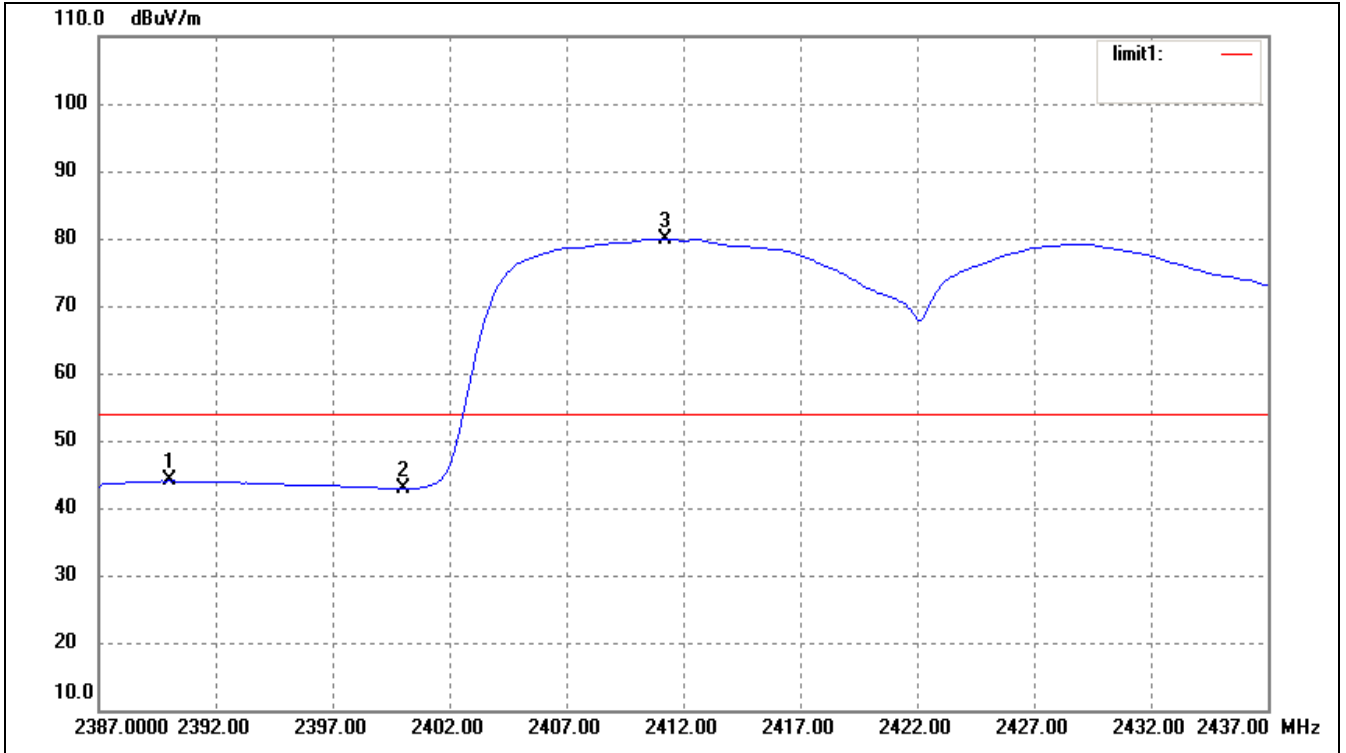
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2390	7.47	30.01	37.48	54	-16.52	Ave
	2390	27.89	30.01	57.9	74	-16.1	peak
2	2400	11.01	30.21	41.22	54	-12.78	Ave

Highest Bandedge



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.5	7.26	31.01	38.27	54	-15.73	Ave
	2483.5	29.37	31.01	60.38	74	-13.62	peak

**For 802.11n HT40**  
 Lowest Bandedge



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390	8.42	30.01	38.43	54	-15.57	2390
	2390	27.38	30.01	57.39	74	-16.61	2390
2	2400	7.22	30.21	37.43	54	-16.57	2400

-----The End Report -----