



FCC TEST REPORT

**Test report
On Behalf of
Shenzhen Xiangai International Technology Co., Ltd.
For
Babyzone • Baby monitor
Model No.: Z1**

FCC ID: 2AMP3-Z1

Prepared for : Shenzhen Xiangai International Technology Co., Ltd.
202B, No.B Building, Xiangnian Square, Nanshan District, Shenzhen City,
Guangdong Province.

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.
F1-008, Tai Yi Building, No.1, Haicheng West Road, Xixiang Street, Bao'an
District, Shenzhen City, China

Date of Test: June 21, 2017 ~ June 28, 2017

Date of Report: June 28, 2017

Report Number: HK170621076-E

**TEST RESULT CERTIFICATION**

Applicant's name : Shenzhen Xiangai International Technology Co., Ltd.
Address : 202B, No.B Building, Xiangnian Square, Nanshan District,
Shenzhen City, Guangdong Province.

Manufacture's Name : Shenzhen Xiangai International Technology Co., Ltd.
Address : 202B, No.B Building, Xiangnian Square, Nanshan District,
Shenzhen City, Guangdong Province.

Product description

Trade Mark: Baby zone
Product name : Babyzone • Baby monitor
Model and/or type reference : Z1

Standards : FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests : June 21, 2017 ~ June 28, 2017

Date of Issue..... : June 28, 2017

Test Result..... : Pass

Testing Engineer :

(Eric Xie)

Technical Manager :

(Dora Qin)

Authorized Signatory :

(Kait Chen)



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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
POWER SPECTRAL DENSITY	COMPLIANT
PEAK OUTPUT POWER _{Peak}	COMPLIANT
OUT OF BAND EMISSIONS	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2 TEST FACILITY

Test Firm : QTC Certification & Testing Co., Ltd.
Certificated by FCC, Registration No.: 588523
Address 2nd Floor,B1 Building,Fengyeyuan Industrial Plant, Liuxian 2st. Road,
Xin'an Street, Bao'an District, Shenzhen, China

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty	
Conducted Emission Expanded Uncertainty	= 2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.06dB, k=2



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Babyzone • Baby monitor
Model Name	Z1
Serial Model	/
Model Difference	/
FCC ID	2AMP3-Z1
Antenna Type	Internal antenna
Antenna Gain	2 dBi
Operation frequency	802.11b/g/n 20:2412~2462 MHz N40:2422~2452 MHz
Number of Channels	802.11b/g/n20: 11CH N40: 7CH
Modulation Type	CCK/OFDM/DBPSK/DAPSK
Power Source	DC5V form Adapter with AC 120V/60Hz
Power Rating	DC5V form Adapter with AC 120V/60Hz



2.1.1 Carrier Frequency of Channels

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

Operation of EUT during testing

Operating Mode

The mode is used: **Transmitting mode for 802.11b/g/n(20MHz)**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

Transmitting mode for 802.11n(40MHz)

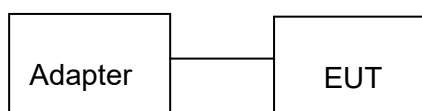
Low Channel: 2422MHz

Middle Channel: 2437MHz

High Channel: 2452MHz

2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and Radiation testing:



**2.3 MEASUREMENT INSTRUMENTS LIST**

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
2.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	1 Year
4.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
5.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Feb. 18, 2017	Feb. 17, 2018
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Feb. 18, 2017	Feb. 17, 2018
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
10.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	Feb. 17, 2018
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 18, 2017	Feb. 17, 2018
15.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 18, 2017	Feb. 17, 2018
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 18, 2017	Feb. 17, 2018
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Power Meter	R&S	NRVD	SEL0069	Feb. 18, 2017	Feb. 17, 2018
19.	Power Sensor	R&S	URV5-Z2	SEL0071	Feb. 18, 2017	Feb. 17, 2018
20.	Power Sensor	R&S	URV5-Z2	SEL0072	Feb. 18, 2017	Feb. 17, 2018
21.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
22.	Log-periodic Antenna	Amplifier Reasearch	APT1.580	SEL0073	Feb. 18, 2017	Feb. 17, 2018
23.	Loop Antenna	Schwarz beck	FMZB 1516	9773	Feb. 18, 2017	Feb. 17, 2018
24.	Broadband Antenna	Schwarz beck	VULB9163	9163-333	Feb. 18, 2017	Feb. 17, 2018
25.	Horn Antenna	ETS	3117	00086197	Feb. 18, 2017	Feb. 17, 2018
26.	Horn Antenna	Schwarzbeck	BBHA9170	BBHA91705 82	Feb. 18, 2017	Feb. 17, 2018
27.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	Feb. 18, 2017	Feb. 17, 2018
28.	High Gain Horn Antenna	Amplifier Reasearch	AT4002A	SEL0075	Feb. 18, 2017	Feb. 17, 2018
29.	Spectrum analyzer	Agilent	N9020A	MY49911004 8	Feb. 18, 2017	Feb. 17, 2018
30.	Spectrum analyzer	Agilent	E4407B	MY46184326	Feb. 18, 2017	Feb. 17, 2018
31.	Spectrum analyzer	R&S	FSP30	836079/035	Feb. 18, 2017	Feb. 17, 2018
32.	RF Cable	Micable	C10-01-01-1	100309	Feb. 18, 2017	Feb. 17, 2018



3. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

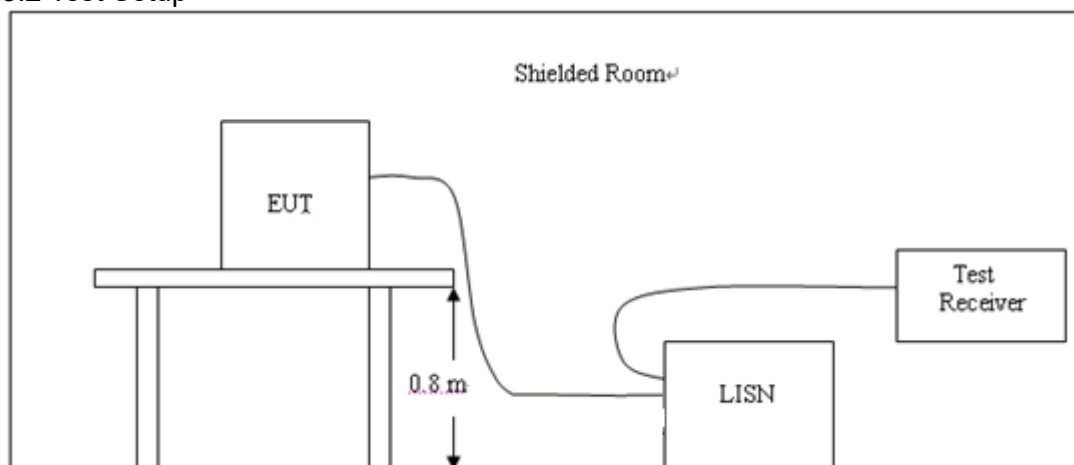
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

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

3.2 Test Setup



3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

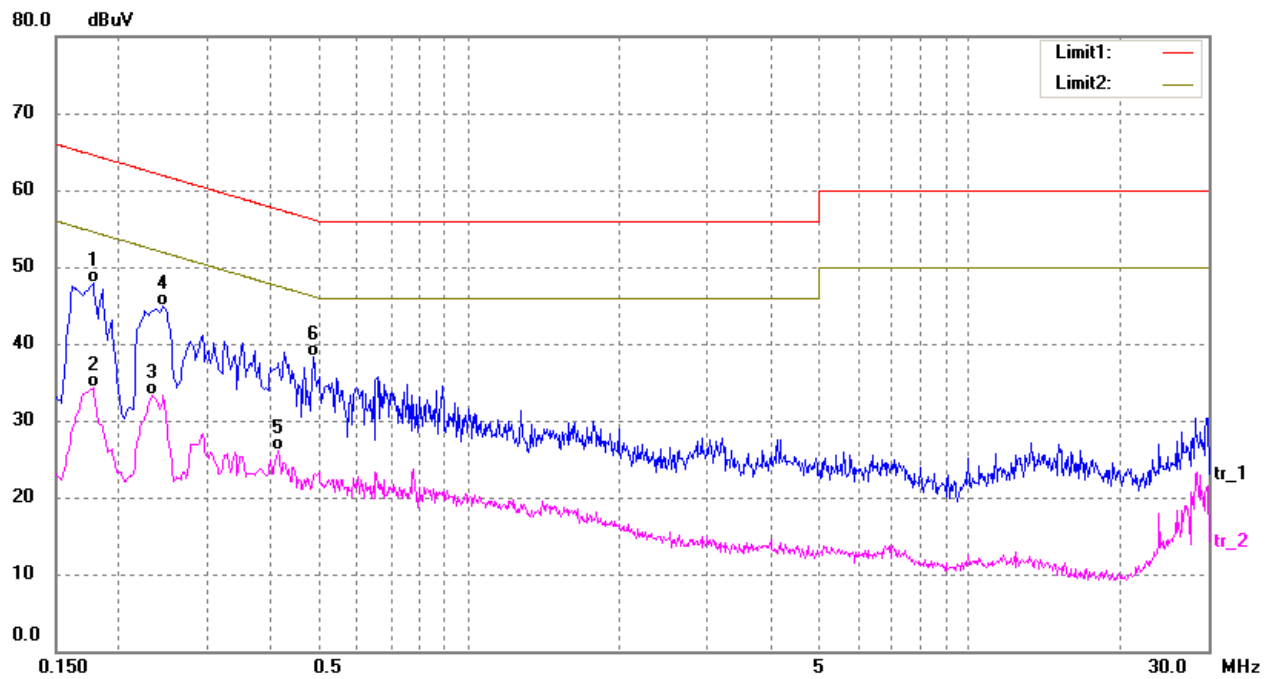
3.4 Test Result

PASS

All the test modes completed for test.



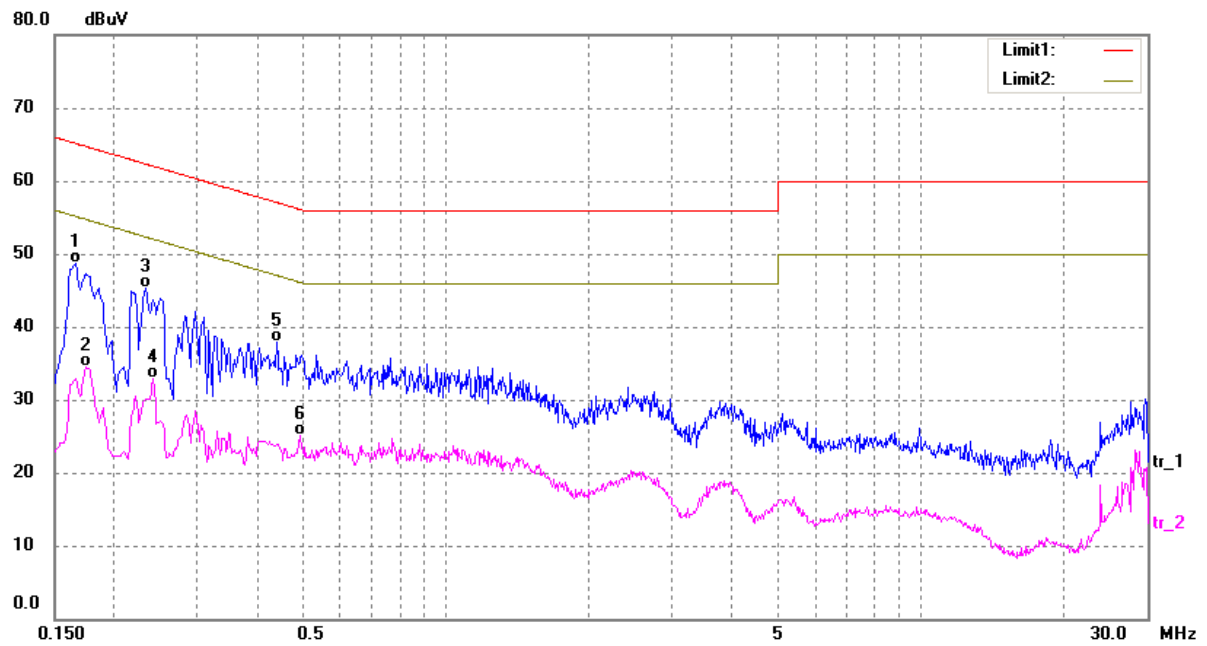
Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1780	38.05	9.82	47.87	64.58	-16.71	QP
2	0.1780	24.52	9.82	34.34	54.58	-20.24	AVG
3	0.2340	23.41	9.80	33.21	52.31	-19.10	AVG
4	0.2460	35.09	9.80	44.89	61.89	-17.00	QP
5	0.4180	16.37	9.80	26.17	47.49	-21.32	AVG
6	0.4900	28.54	9.80	38.34	56.17	-17.83	QP



Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1660	38.91	9.83	48.74	65.16	-16.42	QP
2	0.1740	24.73	9.83	34.56	54.77	-20.21	AVG
3	0.2340	35.58	9.80	45.38	62.31	-16.93	QP
4	0.2420	23.07	9.80	32.87	52.03	-19.16	AVG
5	0.4420	28.12	9.80	37.92	57.02	-19.10	QP
6	0.4940	15.23	9.80	25.03	46.10	-21.07	AVG



4 RADIATED EMISSION TEST

4.1 Radiation Limit

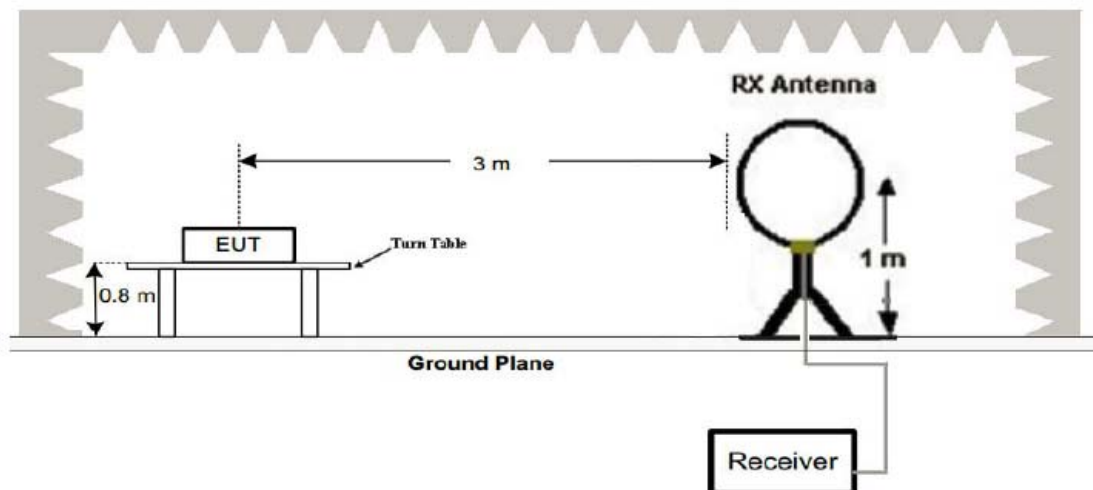
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

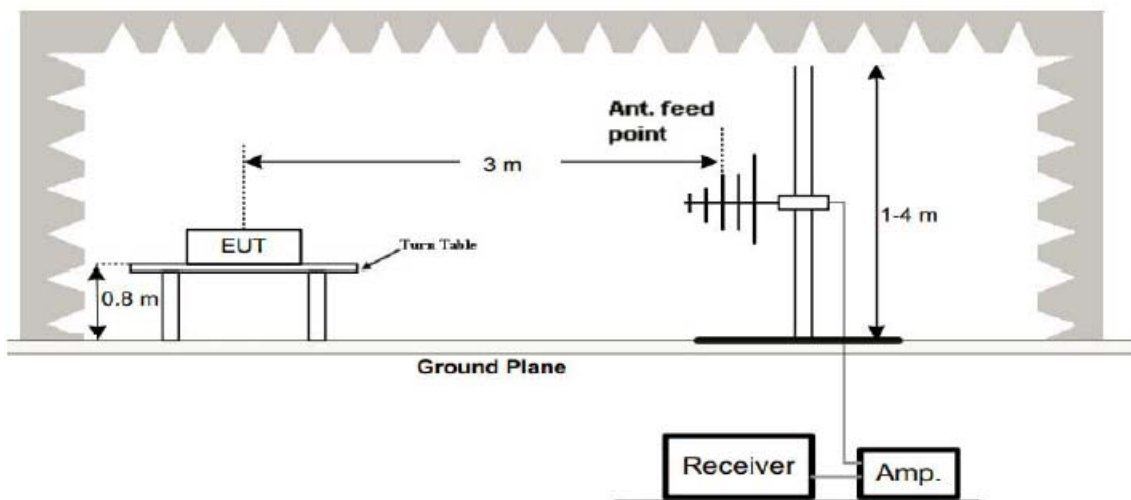
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

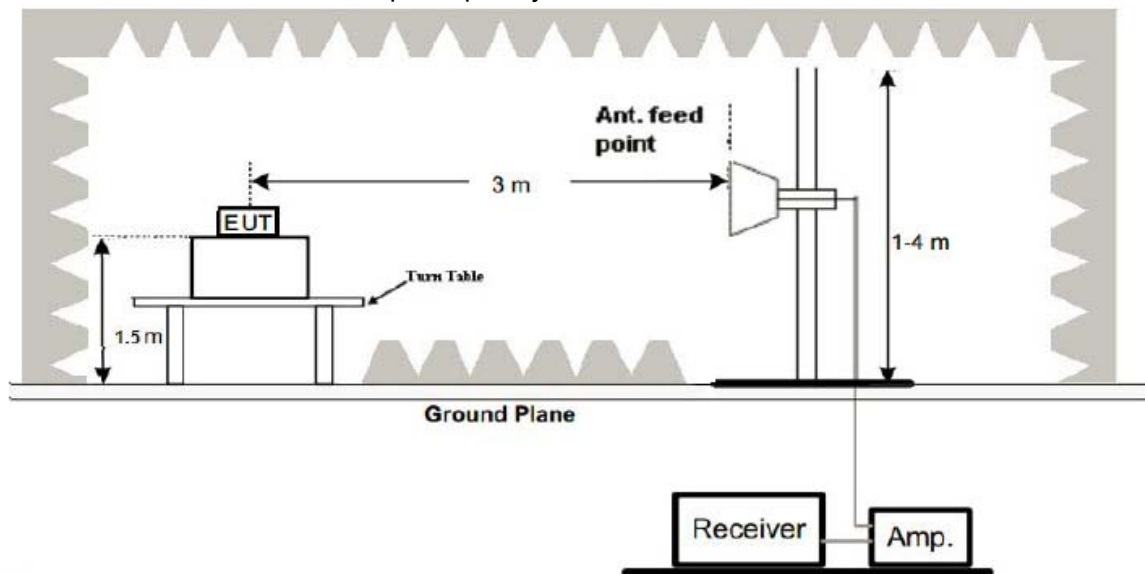
(1) Radiated Emission Test-Up Frequency Below 30MHz



(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

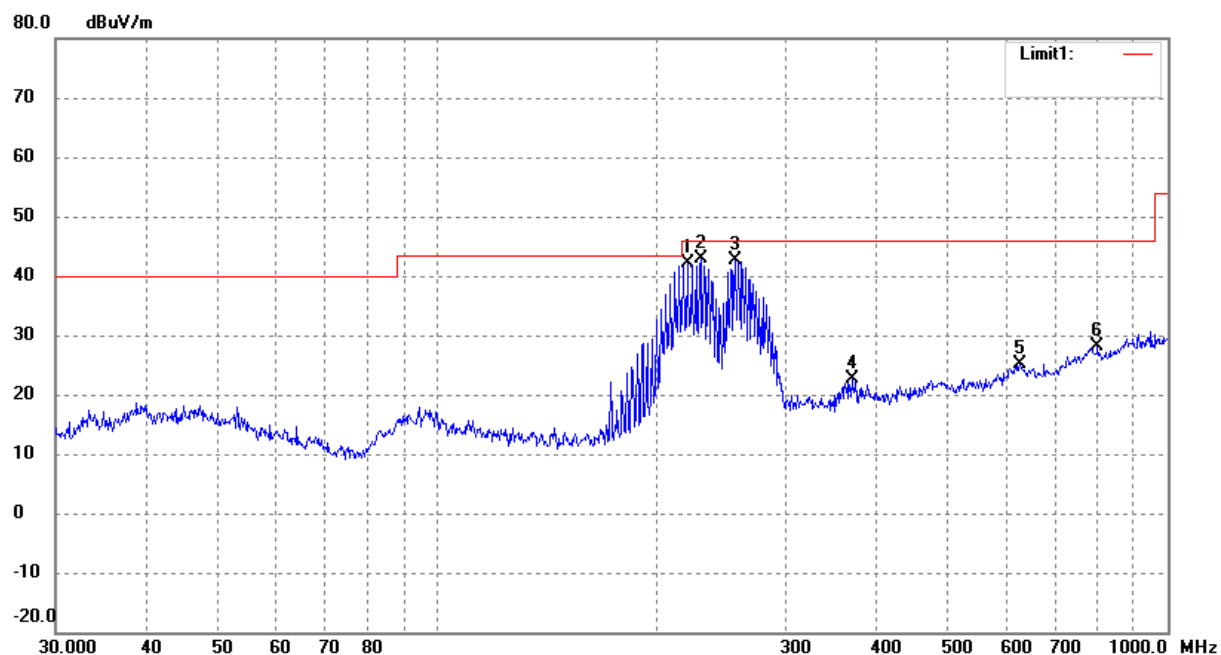
4.4 Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission (802.11b Transmitting Low Channel-2412MHz (worst case)); the test data of this mode was reported.



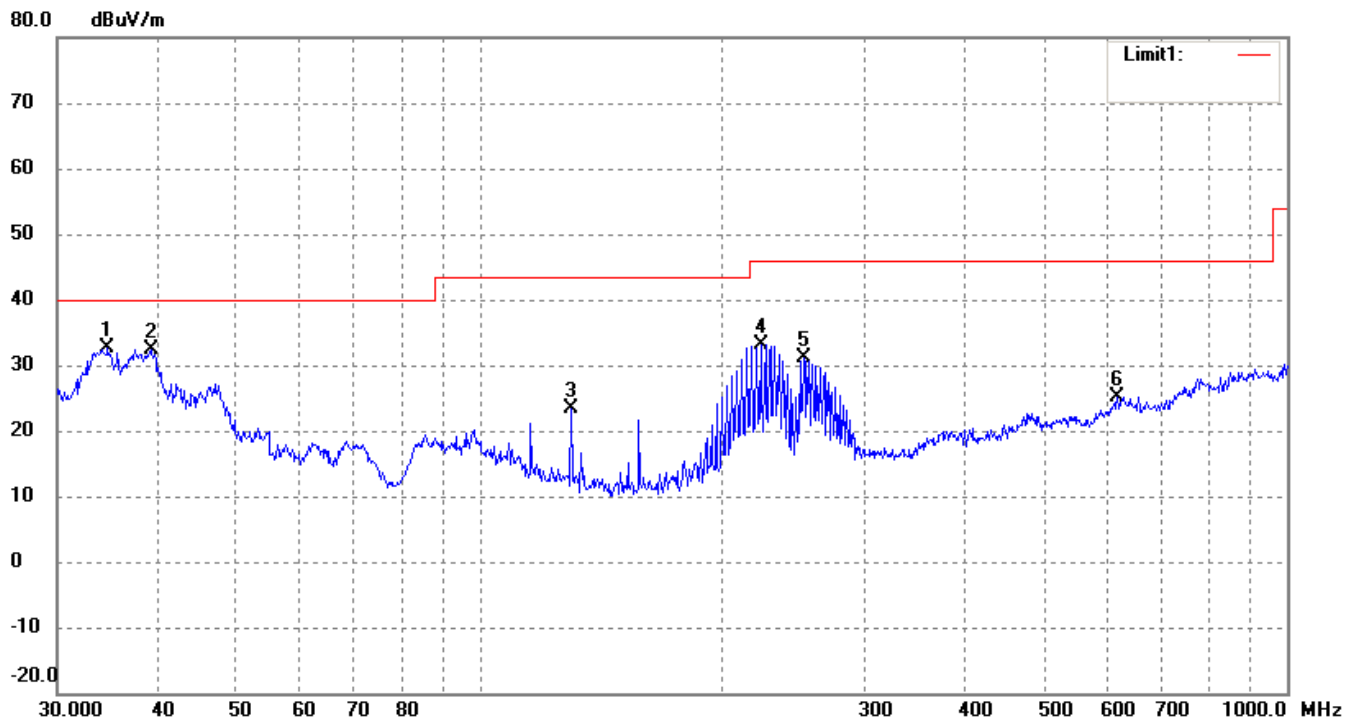
Below 1GHz Test Results:
Antenna polarity: H



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	219.8449	54.48	-12.47	42.01	46.00	-3.99	153	100	peak
2	229.2931	54.68	-11.77	42.91	46.00	-3.09	184	100	peak
3	255.6231	52.86	-10.26	42.60	46.00	-3.40	104	100	peak
4	369.4047	30.12	-7.48	22.64	46.00	-23.36	95	100	peak
5	627.2738	28.03	-2.95	25.08	46.00	-20.92	152	100	peak
6	801.7863	28.22	-0.13	28.09	46.00	-17.91	308	100	peak



Antenna polarity: V



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	34.6385	44.16	-11.64	32.52	40.00	-7.48	59	100	peak
2	39.1616	43.08	-10.59	32.49	40.00	-7.51	177	100	peak
3	129.9226	37.67	-14.24	23.43	43.50	-20.07	139	100	peak
4	222.9502	45.45	-12.25	33.20	46.00	-12.80	104	100	peak
5	252.0627	41.64	-10.42	31.22	46.00	-14.78	77	100	peak
6	616.3718	28.18	-3.07	25.11	46.00	-20.89	341	100	peak

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



Above 1 GHz Test Results:

LOW CH1 (802.11b Mode)/2412
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	64.12	-3.64	60.48	74	-13.52	peak
4824	44.23	-3.64	40.59	54	-13.41	AVG
7236	55.26	-0.95	54.31	74	-19.69	peak
7236	45.46	-0.95	44.51	54	-9.49	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	62.41	-3.64	58.77	74	-15.23	peak
4824	43.22	-3.64	39.58	54	-14.42	AVG
7236	54.52	-0.95	53.57	74	-20.43	peak
7236	46.29	-0.95	45.34	54	-8.66	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11b Mode)/2437
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	63.11	-3.51	59.6	74	-14.4	peak
4874	44.19	-3.51	40.68	54	-13.32	AVG
7311	53.12	-0.82	52.3	74	-21.7	peak
7311	43.66	-0.82	42.84	54	-11.16	AVG
---	---	---	---	---	---	---
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	63.64	-3.51	60.13	74	-13.87	peak
4874	44.31	-3.51	40.8	54	-13.2	AVG
7311	53.29	-0.82	52.47	74	-21.53	peak
7311	41.21	-0.82	40.39	54	-13.61	AVG
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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11b Mode)/2462
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	62.06	-3.43	58.63	74	-15.37	peak
4924	43.16	-3.43	39.73	54	-14.27	AVG
7386	52.18	-0.75	51.43	74	-22.57	peak
7386	42.06	-0.75	41.31	54	-12.69	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	63.19	-3.43	59.76	74	-14.24	peak
4924	41.37	-3.43	37.94	54	-16.06	AVG
7386	52.06	-0.75	51.31	74	-22.69	peak
7386	42.27	-0.75	41.52	54	-12.48	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11g Mode)/2412
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	62.19	-3.64	58.55	74	-15.45	peak
4824	43.11	-3.64	39.47	54	-14.53	AVG
7236	52.34	-0.95	51.39	74	-22.61	peak
7236	42.93	-0.95	41.98	54	-12.02	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	61.18	-3.64	57.54	74	-16.46	peak
4824	42.31	-3.64	38.67	54	-15.33	AVG
7236	56.29	-0.95	55.34	74	-18.66	peak
7236	43.17	-0.95	42.22	54	-11.78	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11g Mode)/2437
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	61.01	-3.51	57.5	74	-16.5	peak
4874	45.21	-3.51	41.7	54	-12.3	AVG
7311	53.16	-0.82	52.34	74	-21.66	peak
7311	42.24	-0.82	41.42	54	-12.58	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	62.11	-3.51	58.6	74	-15.4	peak
4874	46.25	-3.51	42.74	54	-11.26	AVG
7311	52.17	-0.82	51.35	74	-22.65	peak
7311	41.26	-0.82	40.44	54	-13.56	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11g Mode)/2462
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	63.22	-3.43	59.79	74	-14.21	peak
4924	43.17	-3.43	39.74	54	-14.26	AVG
7386	52.85	-0.75	52.1	74	-21.9	peak
7386	43.14	-0.75	42.39	54	-11.61	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	61.38	-3.43	57.95	74	-16.05	peak
4924	42.12	-3.43	38.69	54	-15.31	AVG
7386	52.04	-0.75	51.29	74	-22.71	peak
7386	42.31	-0.75	41.56	54	-12.44	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

LOW CH1 (802.11n/H20 Mode)/2412
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	61.21	-3.64	57.57	74	-16.43	peak
4824	43.01	-3.64	39.37	54	-14.63	AVG
7236	52.17	-0.95	51.22	74	-22.78	peak
7236	42.24	-0.95	41.29	54	-12.71	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4824	62.32	-3.64	58.68	74	-15.32	peak
4824	42.35	-3.64	38.71	54	-15.29	AVG
7236	52.17	-0.95	51.22	74	-22.78	peak
7236	42.16	-0.95	41.21	54	-12.79	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	61.27	-3.51	57.76	74	-16.24	peak
4874	46.06	-3.51	42.55	54	-11.45	AVG
7311	54.22	-0.82	53.4	74	-20.6	peak
7311	43.18	-0.82	42.36	54	-11.64	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4874	60.16	-3.51	56.65	74	-17.35	peak
4874	44.15	-3.51	40.64	54	-13.36	AVG
7311	53.42	-0.82	52.6	74	-21.4	peak
7311	42.06	-0.82	41.24	54	-12.76	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH11 (802.11n/H20 Mode)/2462
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	63.95	-3.43	60.52	74	-13.48	peak
4924	46.26	-3.43	42.83	54	-11.17	AVG
7386	52.16	-0.75	51.41	74	-22.59	peak
7386	42.15	-0.75	41.4	54	-12.6	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924	61.91	-3.43	58.48	74	-15.52	peak
4924	43.15	-3.43	39.72	54	-14.28	AVG
7386	52.16	-0.75	51.41	74	-22.59	peak
7386	42.47	-0.75	41.72	54	-12.28	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

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MID CH6 (802.11n/H40 Mode)/2437
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	61.18	-3.51	57.67	74	-16.33	peak
4874	44.16	-3.51	40.65	54	-13.35	AVG
7311	53.52	-0.82	52.7	74	-21.3	peak
7311	42.18	-0.82	41.36	54	-12.64	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874	60.37	-3.51	56.86	74	-17.14	peak
4874	42.17	-3.51	38.66	54	-15.34	AVG
7311	53.16	-0.82	52.34	74	-21.66	peak
7311	40.22	-0.82	39.4	54	-14.6	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



HIGH CH9 (802.11n/H40 Mode)/2452
Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	60.97	-3.43	57.54	74	-16.46	peak
4904	43.16	-3.43	39.73	54	-14.27	AVG
7356	55.28	-0.75	54.53	74	-19.47	peak
7356	41.75	-0.75	41	54	-13	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4904	60.27	-3.43	56.84	74	-17.16	peak
4904	43.16	-3.43	39.73	54	-14.27	AVG
7356	53.75	-0.75	53	74	-21	peak
7356	40.34	-0.75	39.59	54	-14.41	AVG
---	---	---	---	---	---	---
---	---	---	---	---	---	---

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



5 BAND EDGE

5.1 Limits

Please refer section 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

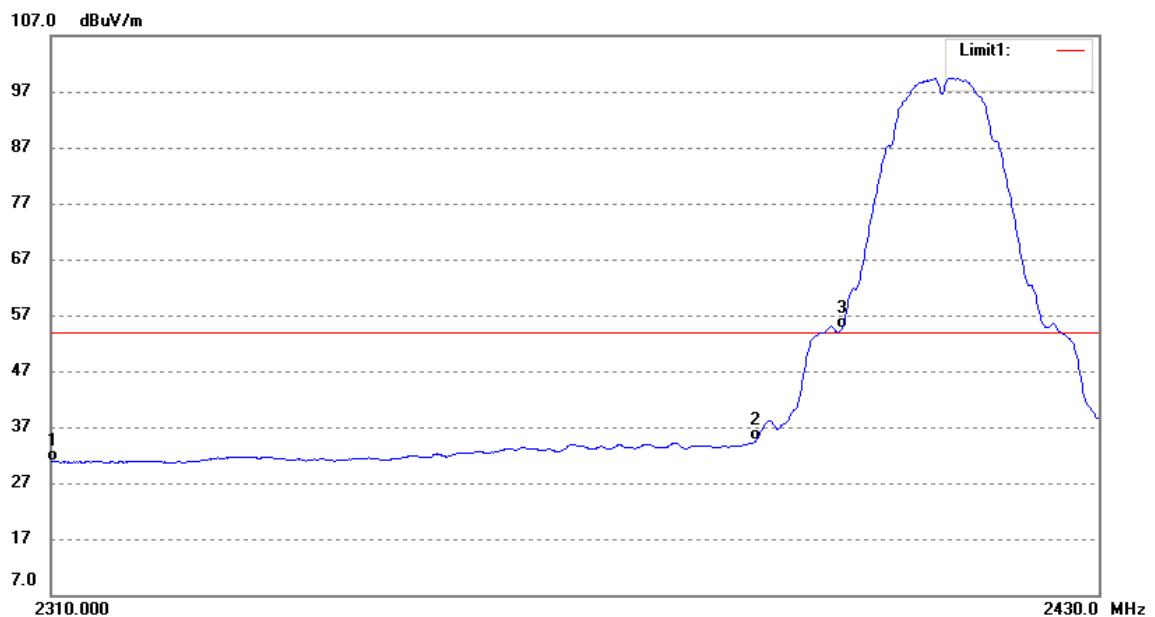
5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 100KHz and VBM to 300KHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

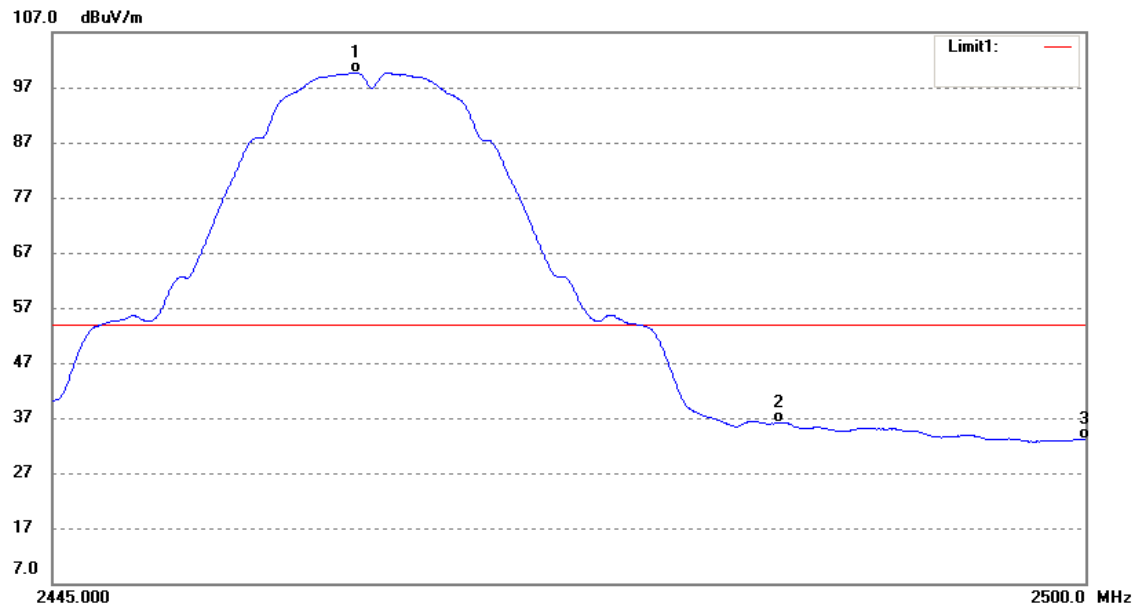
Radiated Band Edge Test:
802.11b-Lowest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	34.23	-3.35	30.88	54.00	-23.12	Average Detector
	2310.000	46.37	-3.35	43.02	74.00	-30.98	Peak Detector
2	2390.000	38.93	-4.29	34.64	54.00	-19.36	Average Detector
	2390.000	49.46	-4.29	45.17	74.00	-28.83	Peak Detector
3	2400.000	59.13	-4.40	54.73	Delta =44.72dBc		Average Detector
4	2412.588	103.89	-4.44	99.45			Average Detector



802.11b-Highest Bandedge
Vertical (Worst case)

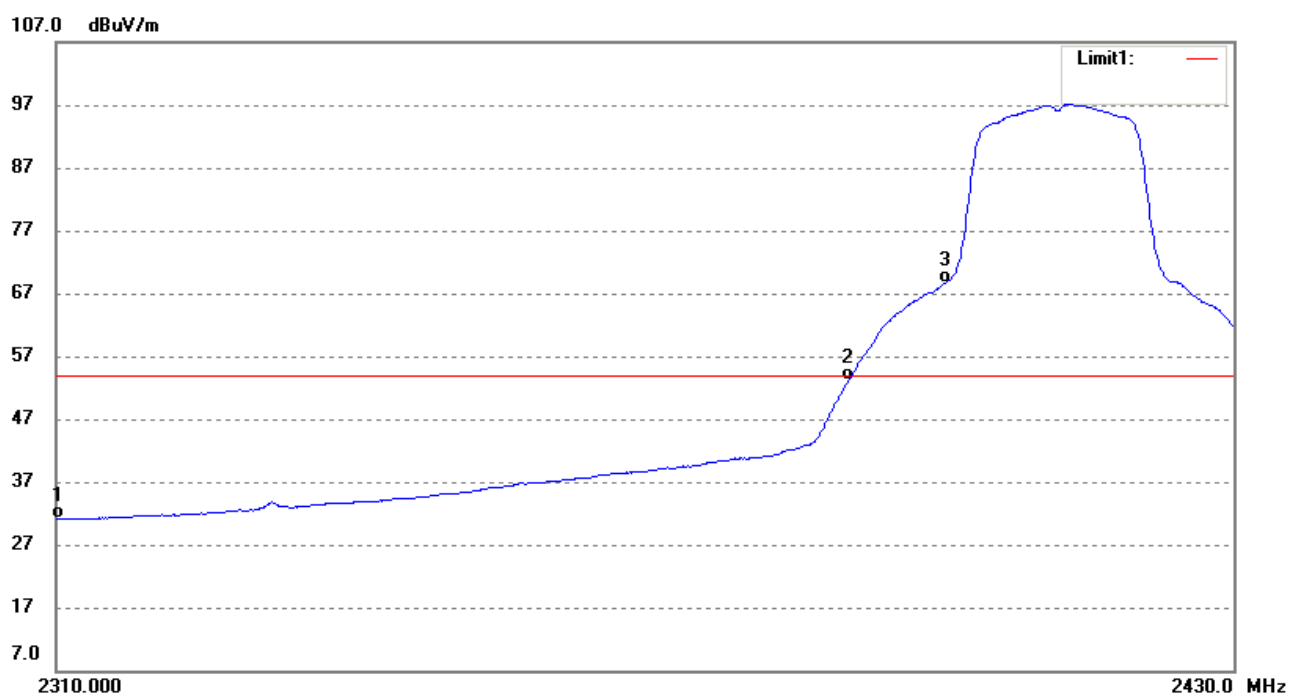


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.043	104.02	-4.38	99.64	/	/	Average Detector
	2460.824	108.30	-4.38	103.92	/	/	Peak Detector
2	2483.500	40.47	-4.36	36.11	54.00	-17.89	Average Detector
	2483.500	50.25	-4.36	45.89	74.00	-28.11	Peak Detector
3	2500.000	37.47	-4.34	33.13	54.00	-20.87	Average Detector
	2500.000	49.00	-4.34	44.66	74.00	-29.34	Peak Detector



802.11g-Lowest Bandedge

Vertical (Worst case)

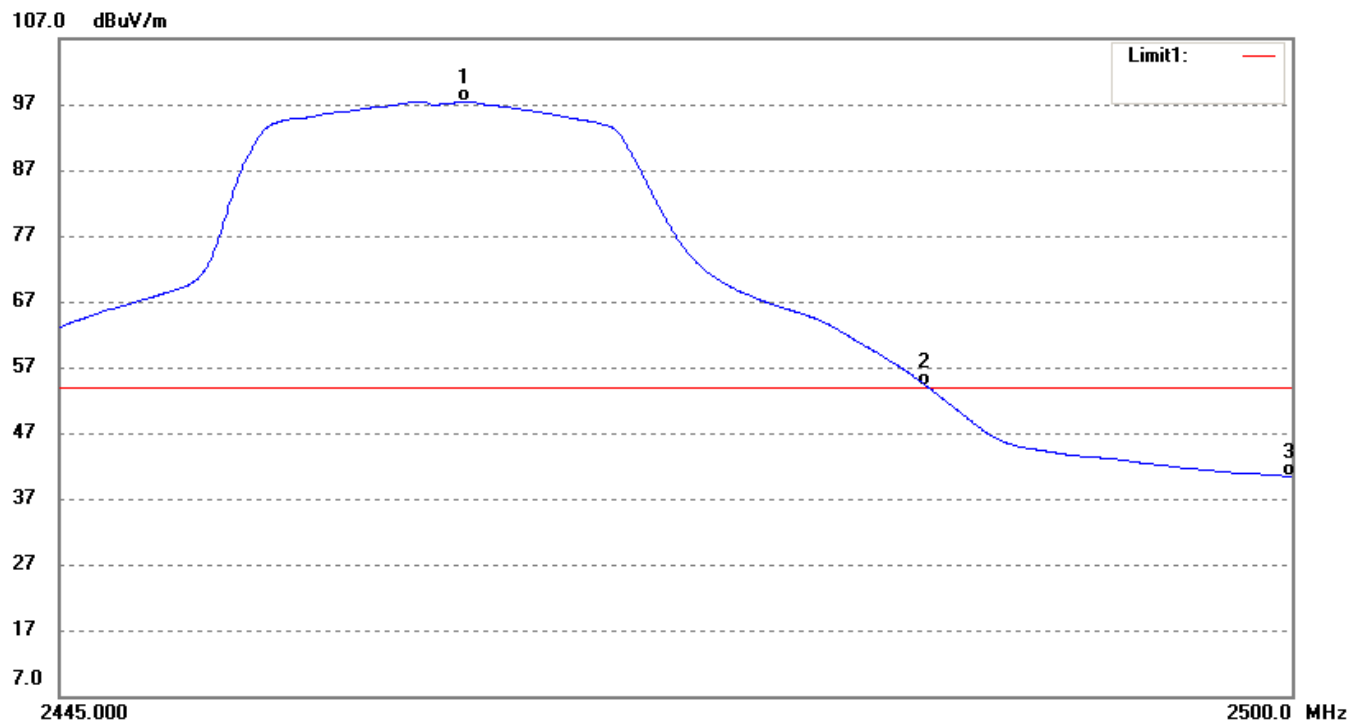


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	34.42	-3.35	31.07	54.00	-22.93	Average Detector
	2310.000	45.71	-3.35	42.36	74.00	-31.64	Peak Detector
2	2390.000	57.40	-4.29	53.11	54.00	-0.89	Average Detector
	2390.000	74.83	-4.29	70.54	74.00	-3.46	Peak Detector
3	2400.000	73.07	-4.40	68.67	/	/	Average Detector
4	2412.832	101.60	-4.44	97.16	/	/	Average Detector



802.11g-HighestBandedge

Vertical (Worst case)

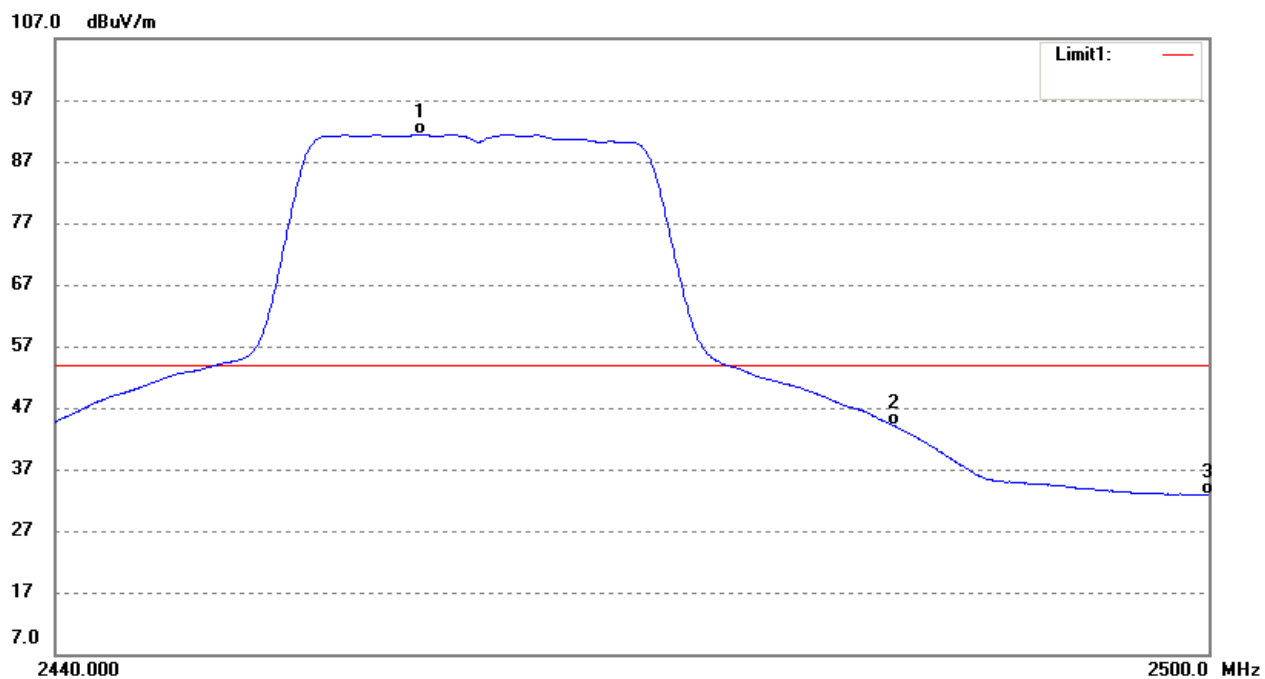


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.960	101.84	-4.38	97.46	Delta =43.21dBc		Average Detector
2	2483.500	58.61	-4.36	54.25			Average Detector
3	2500.000	44.73	-4.34	40.39	54.00	-13.61	Average Detector
	2500.000	55.50	-4.34	51.16	74.00	-22.84	Peak Detector



802.11n-HT20-HighestBandedge

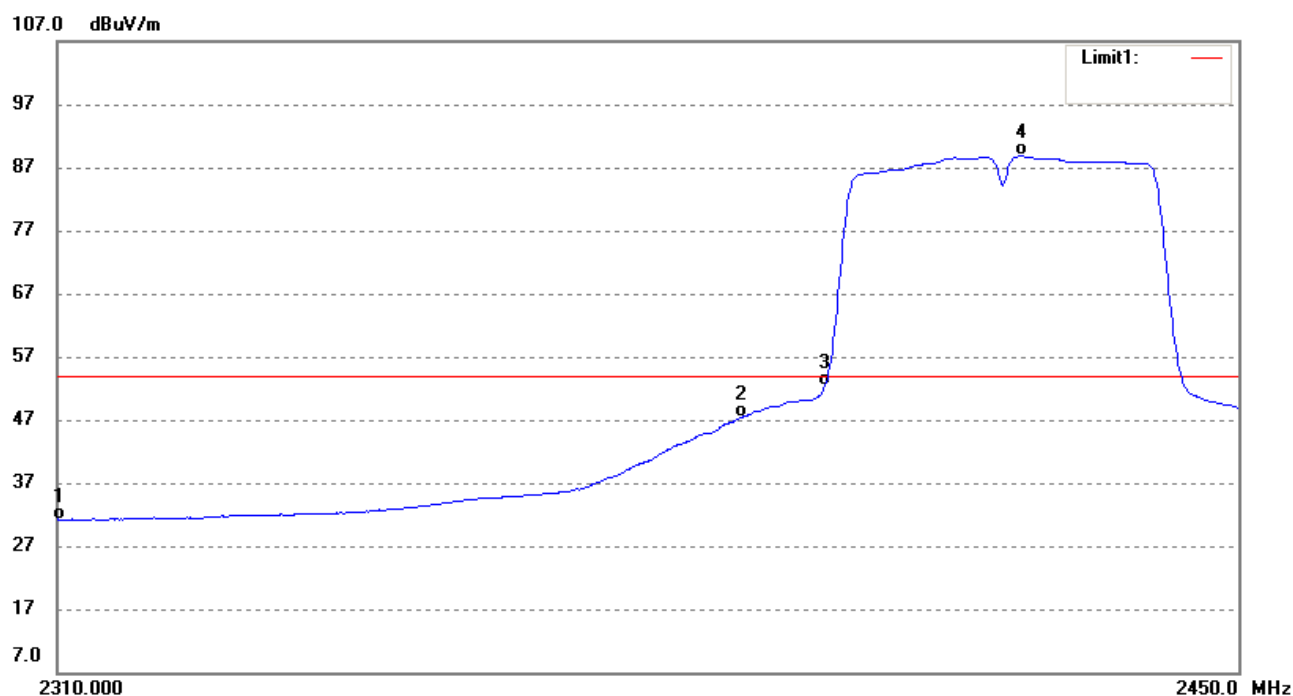
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.862	95.80	-4.39	91.41	/	/	Average Detector
	2458.683	105.33	-4.39	100.94	/	/	Peak Detector
2	2483.500	48.38	-4.36	44.02	54.00	-9.98	Average Detector
	2483.500	65.94	-4.36	61.58	74.00	-12.42	Peak Detector
3	2500.000	37.20	-4.34	32.86	54.00	-21.14	Average Detector
	2500.000	47.89	-4.34	43.55	74.00	-30.45	Peak Detector



802.11n-HT40-Lowest Bandedge
Vertical (Worst case)

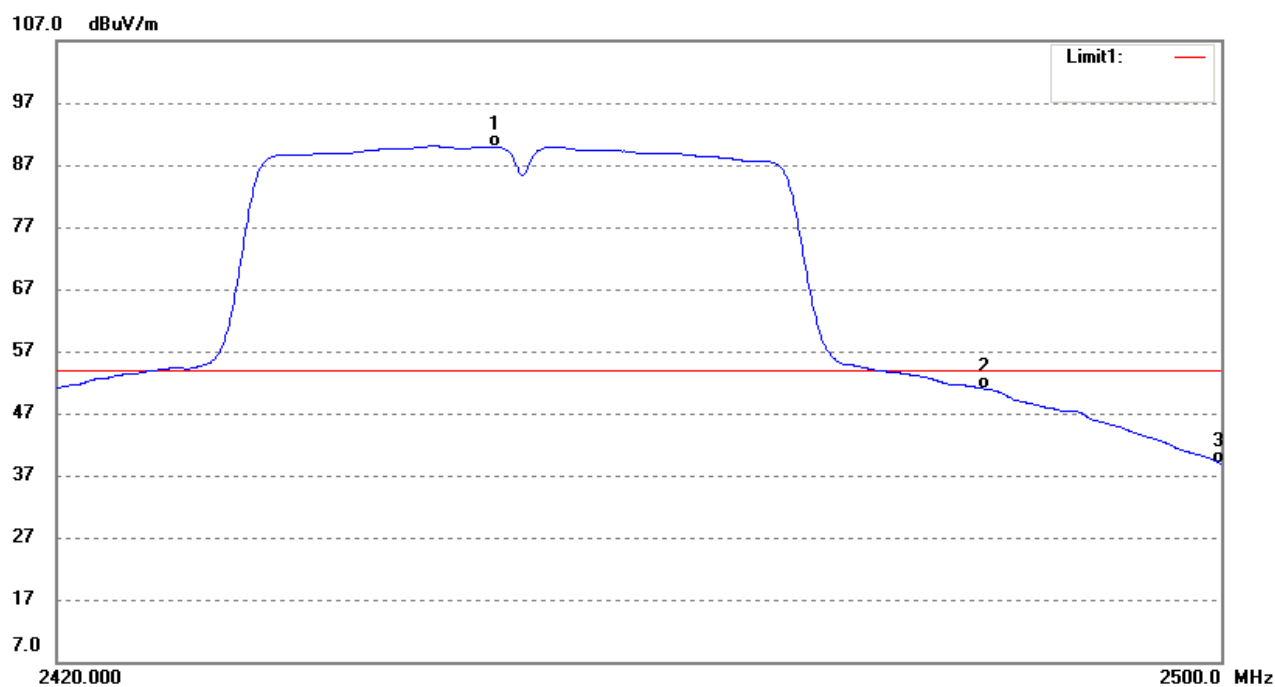


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	34.56	-3.35	31.21	54.00	-22.79	Average Detector
	2310.000	45.45	-3.35	42.10	74.00	-31.90	Peak Detector
2	2390.000	51.69	-4.29	47.40	54.00	-6.60	Average Detector
	2390.000	67.15	-4.29	62.86	74.00	-11.14	Peak Detector
3	2400.000	56.73	-4.40	52.33	54.00	-1.67	Average Detector
	2400.000	71.68	-4.40	67.28	74.00	-6.72	Peak Detector
4	2423.618	93.20	-4.42	88.78	/	/	Average Detector
	2424.331	102.76	-4.42	98.34	/	/	Peak Detector



802.11n-HT40-Highest Bandedge

Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2449.695	94.35	-4.40	89.95	/	/	Average Detector
	2449.456	103.89	-4.40	99.49	/	/	Peak Detector
2	2483.500	55.32	-4.36	50.96	54.00	-3.04	Average Detector
	2483.500	69.16	-4.36	64.80	74.00	-9.20	Peak Detector
3	2500.000	43.18	-4.34	38.84	54.00	-15.16	Average Detector
	2500.000	58.82	-4.34	54.48	74.00	-19.52	Peak Detector



6 OCCUPIED BANDWIDTH MEASUREMENT

6.1 Test Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW= 100KHz. VBW= 300 KHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

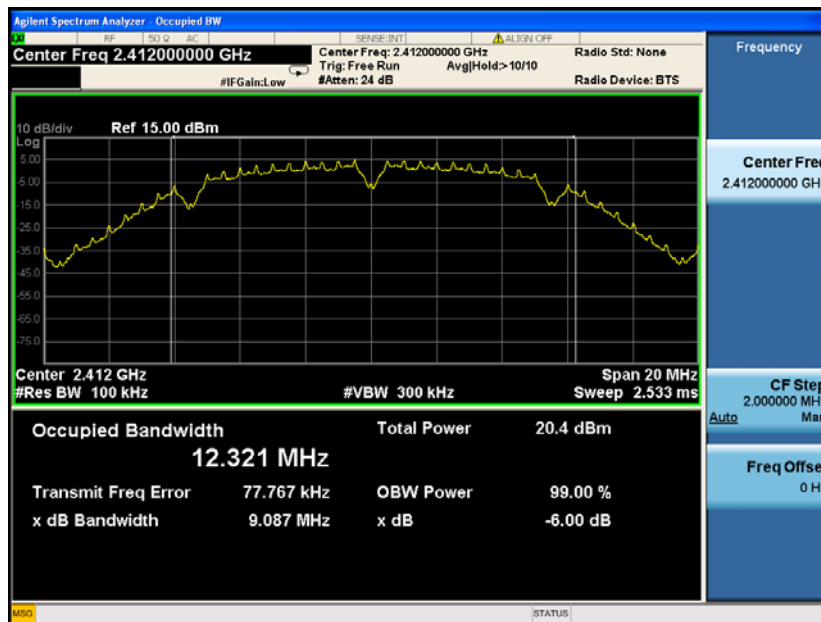
PASS

All the test modes completed for test.



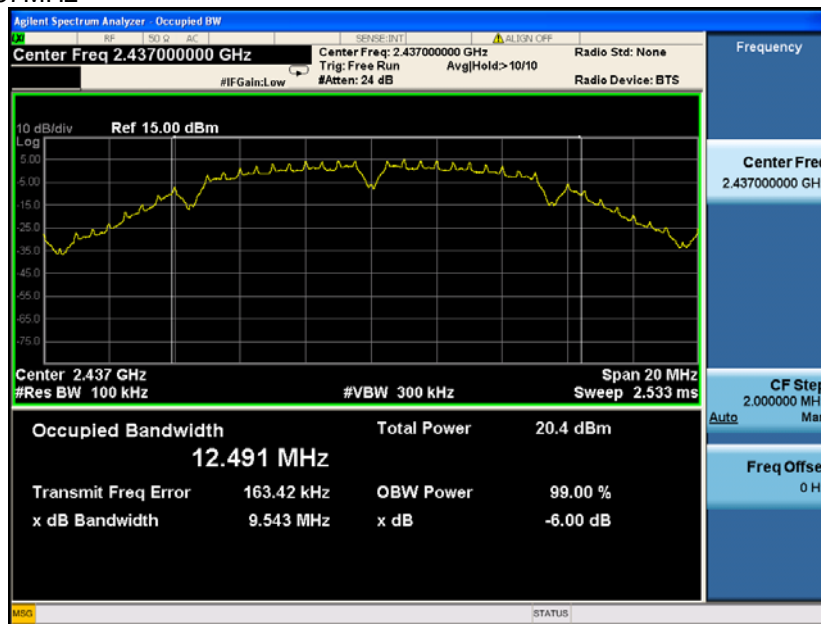
TX 802.11b Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	9.087	$\geq 500\text{KHz}$	PASS
2437 MHz	9.543	$\geq 500\text{KHz}$	PASS
2462 MHz	9.556	$\geq 500\text{KHz}$	PASS

CH: 2412MHz

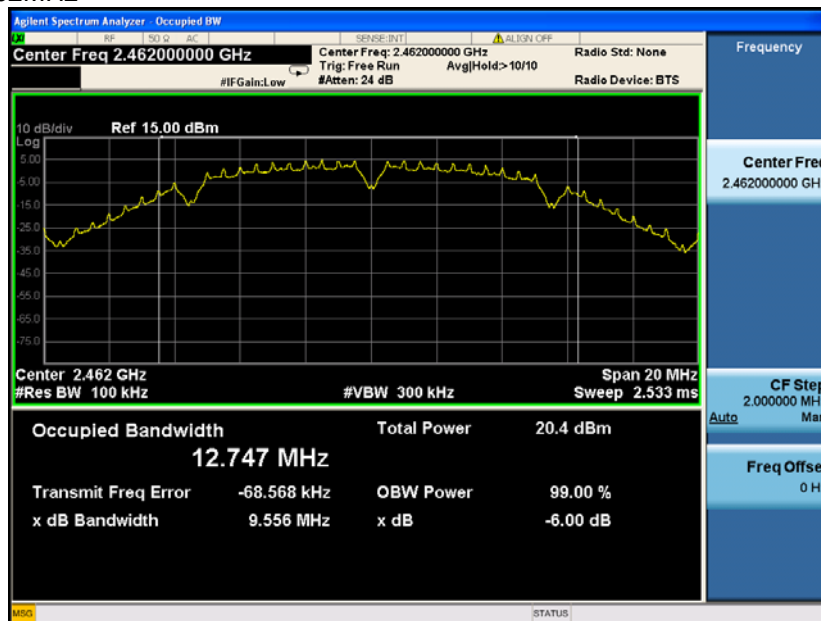




CH: 2437MHz



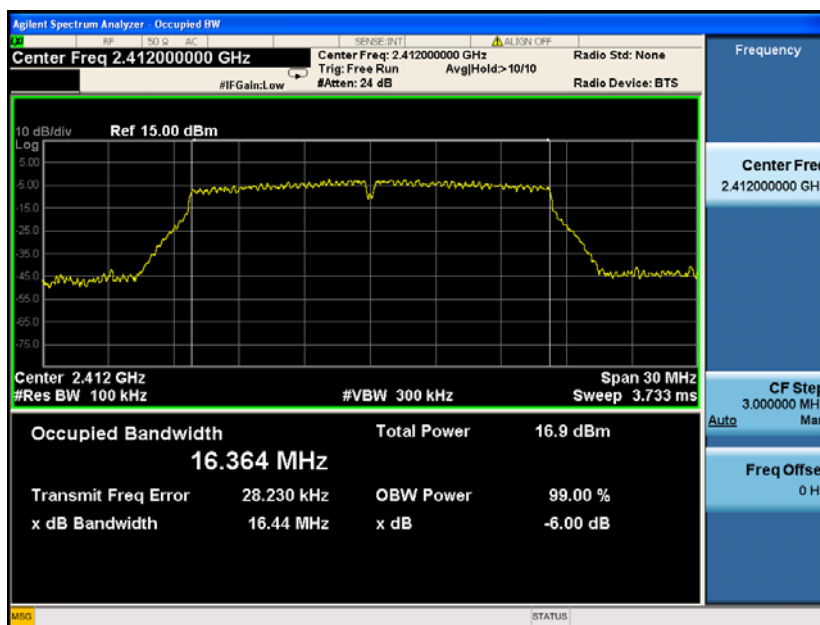
CH: 2462MHz





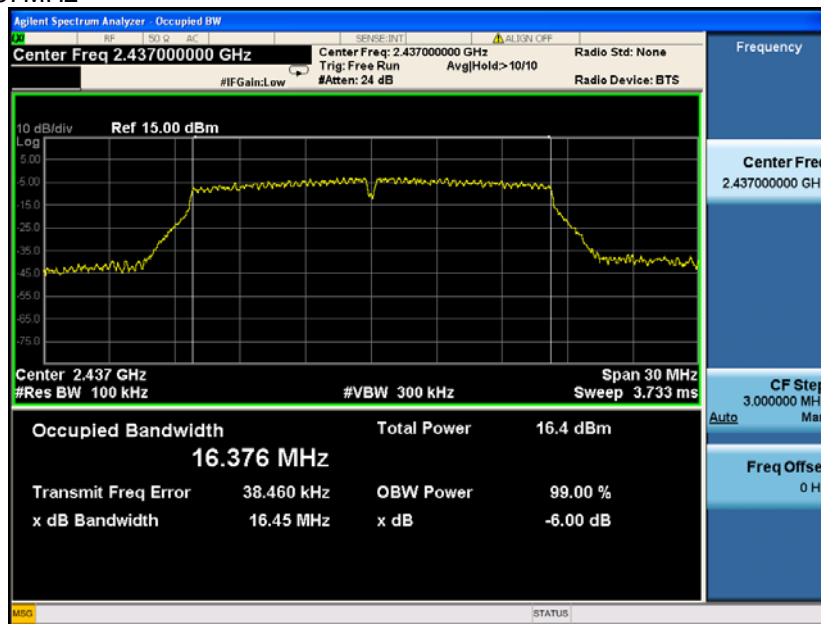
TX 802.11g Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.44	>=500KHz	PASS
2437 MHz	16.45	>=500KHz	PASS
2462 MHz	16.43	>=500KHz	PASS

CH: 2412MHz

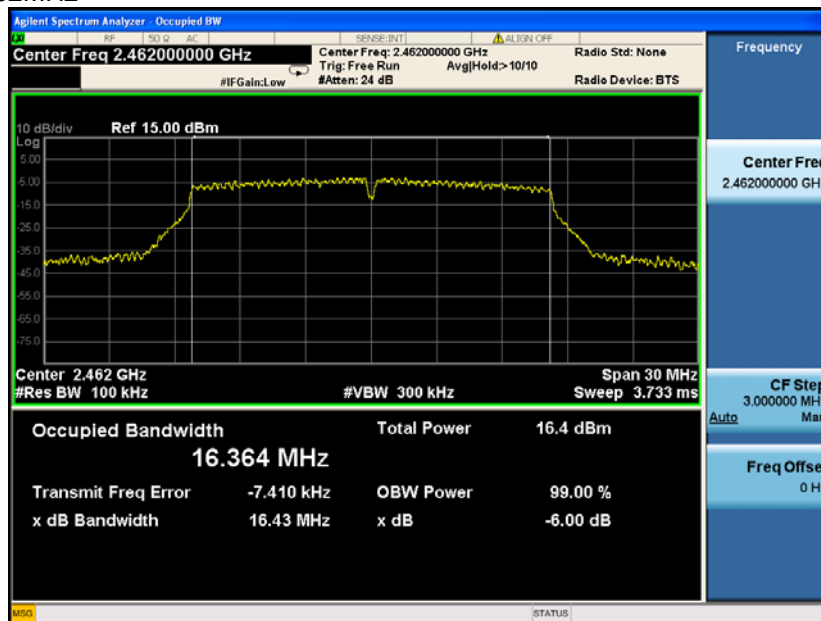




CH: 2437MHz



CH: 2462MHz





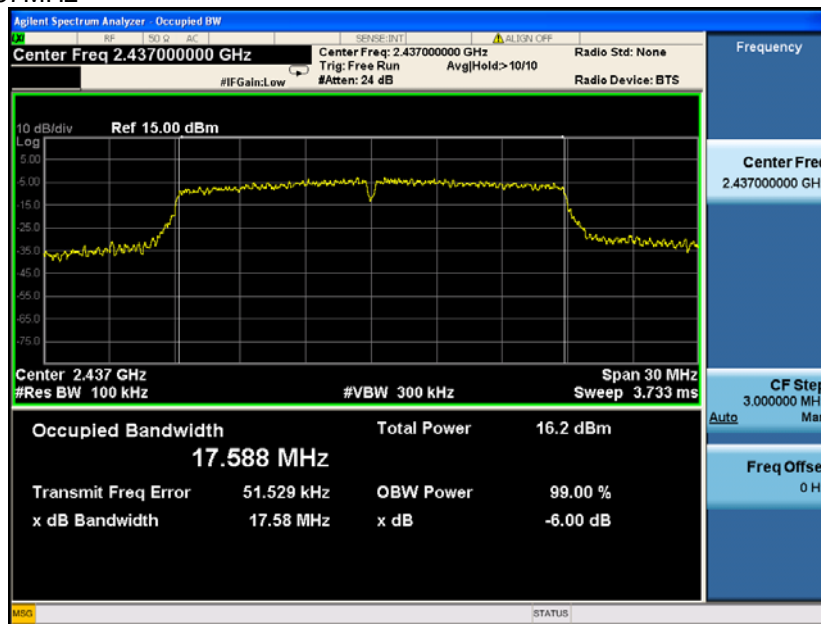
TX 802.11n/HT20 Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.59	>=500KHz	PASS
2437 MHz	17.58	>=500KHz	PASS
2462 MHz	17.59	>=500KHz	PASS

CH: 2412MHz

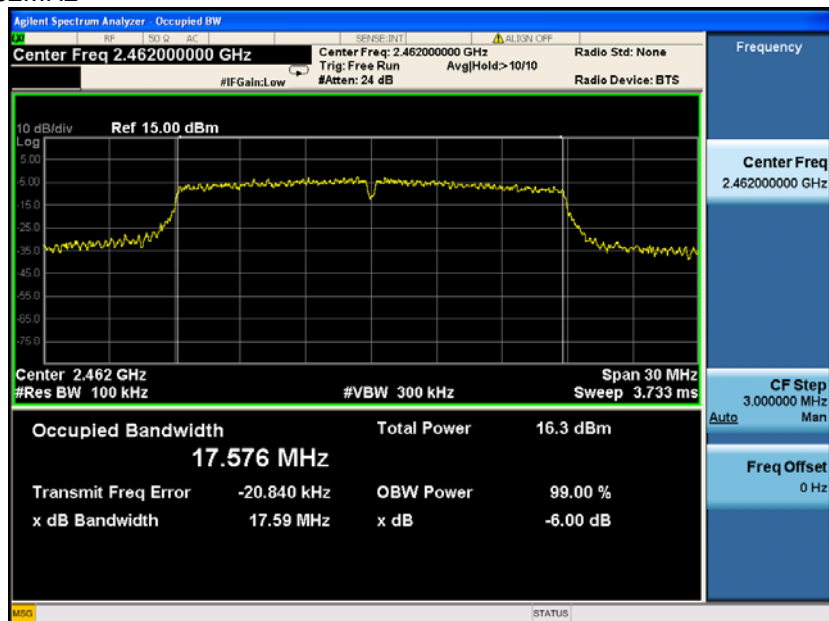




CH: 2437MHz



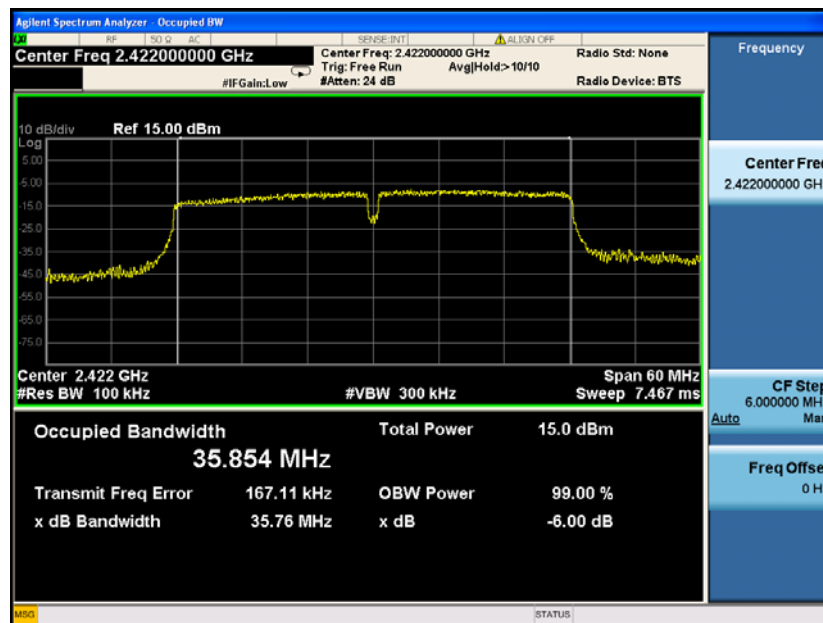
CH: 2462MHz





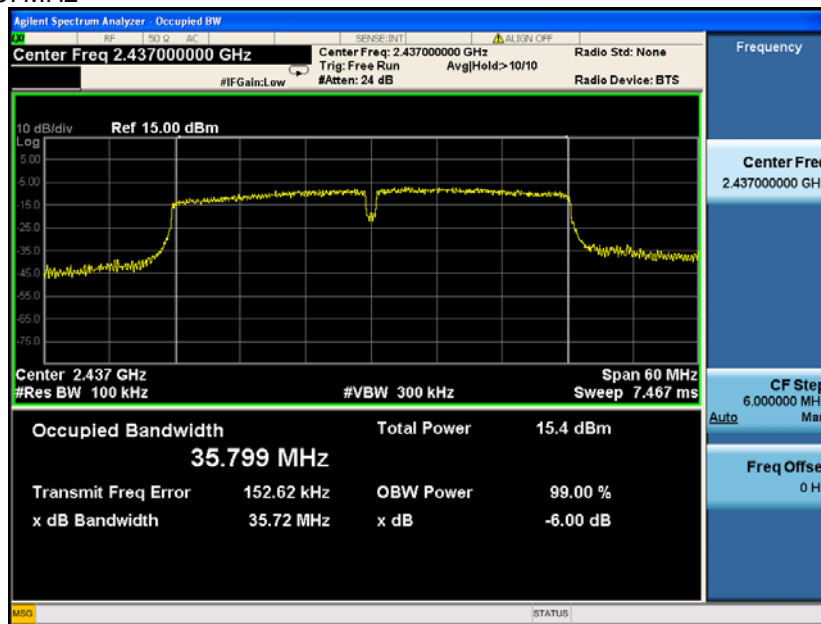
TX 802.11n/HT40 Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.76	>=500KHz	PASS
2437 MHz	35.72	>=500KHz	PASS
2452 MHz	36.02	>=500KHz	PASS

CH: 2422MHz





CH: 2437MHz



CH: 2452MHz





7 POWER SPECTRAL DENSITY TEST

7.1 Test Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

7.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.247: RBW= 3KHz. VBW= 10 KHz, Span=3MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

7.3 Measurement Equipment Used

Same as Radiated Emission Measurement

7.4 Test Result

PASS

All the test modes completed for test.



TX 802.11b Mode			
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.232	8	PASS
2437 MHz	-15.017	8	PASS
2462 MHz	-15.084	8	PASS

CH: 2412MHz





CH: 2437MHz



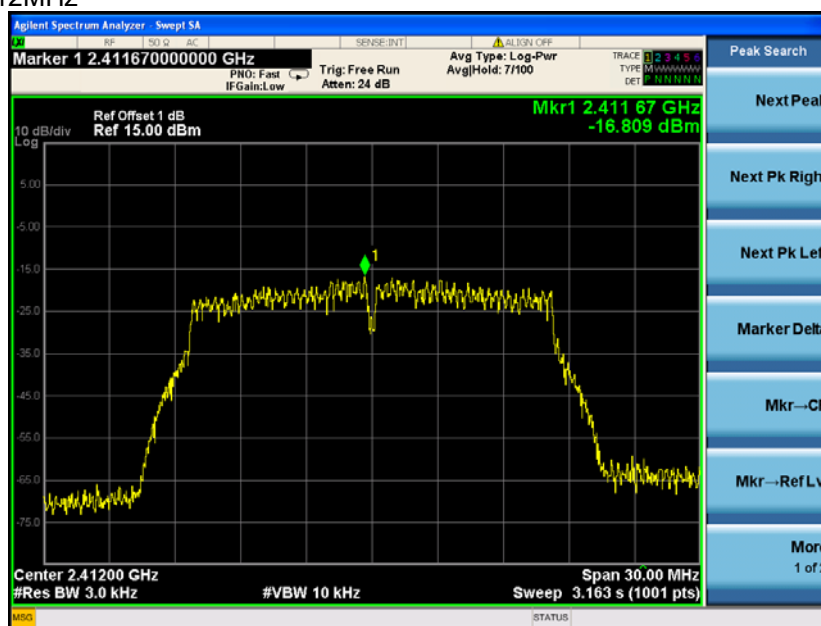
CH: 2462MHz





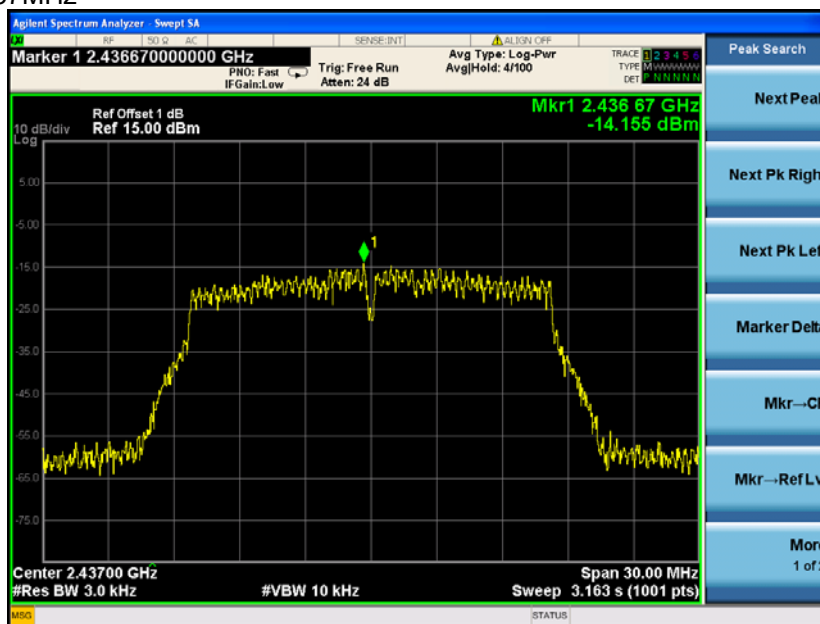
TX 802.11g Mode			
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-16.809	8	PASS
2437 MHz	-14.155	8	PASS
2462 MHz	-14.343	8	PASS

CH: 2412MHz

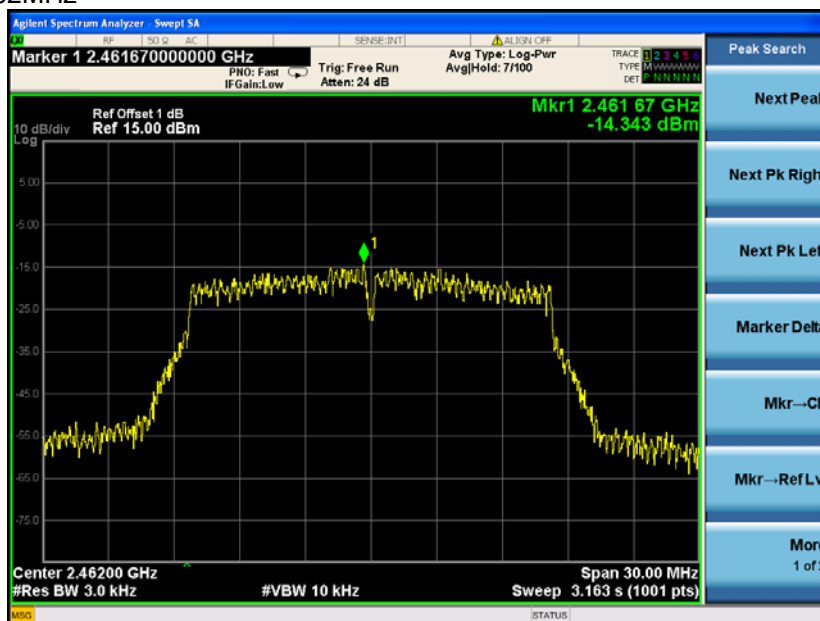




CH: 2437MHz



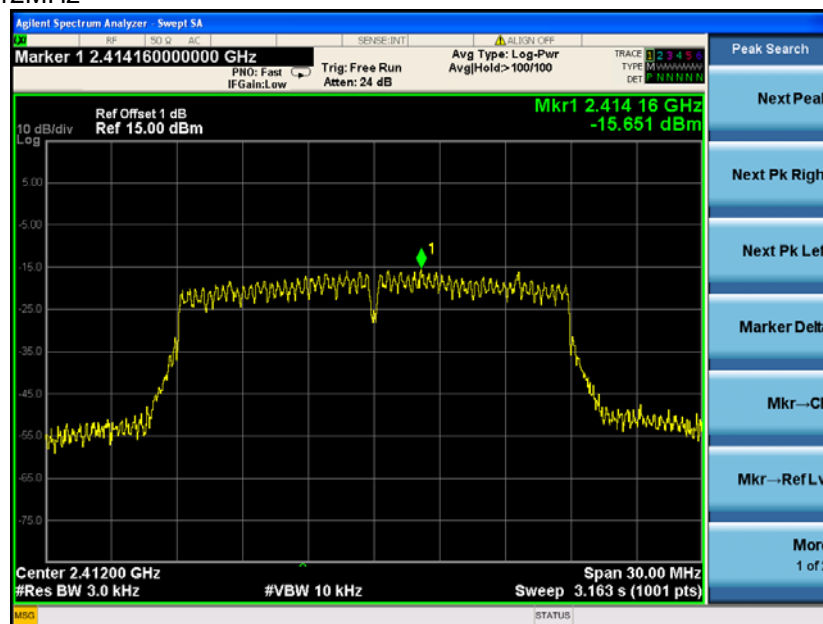
CH: 2462MHz





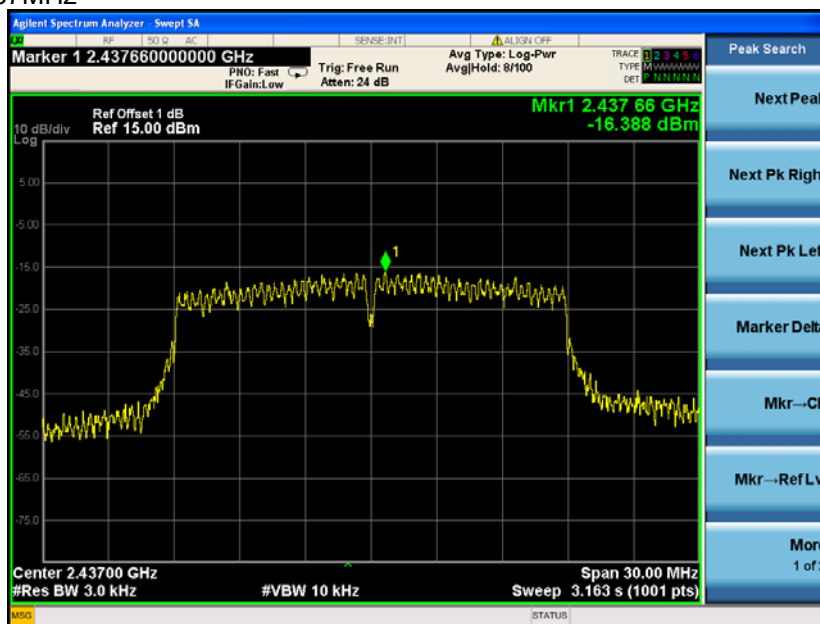
TX 802.11n/HT20 Mode			
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.651	8	PASS
2437 MHz	-16.388	8	PASS
2462 MHz	-16.047	8	PASS

CH: 2412MHz

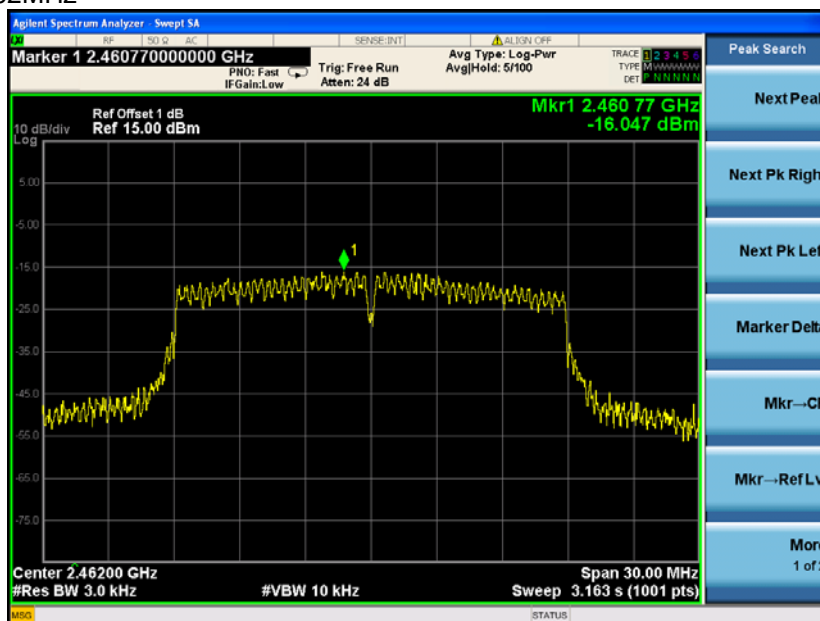




CH: 2437MHz



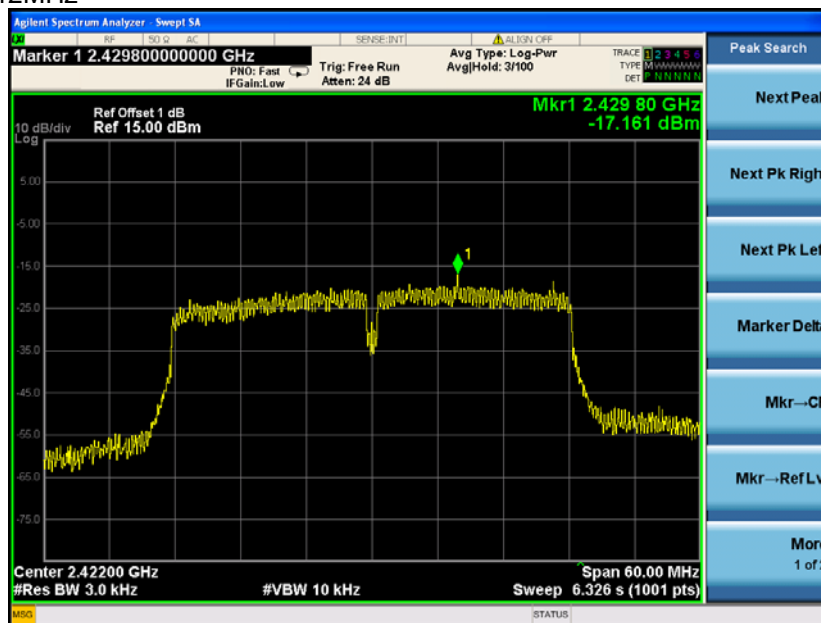
CH: 2462MHz





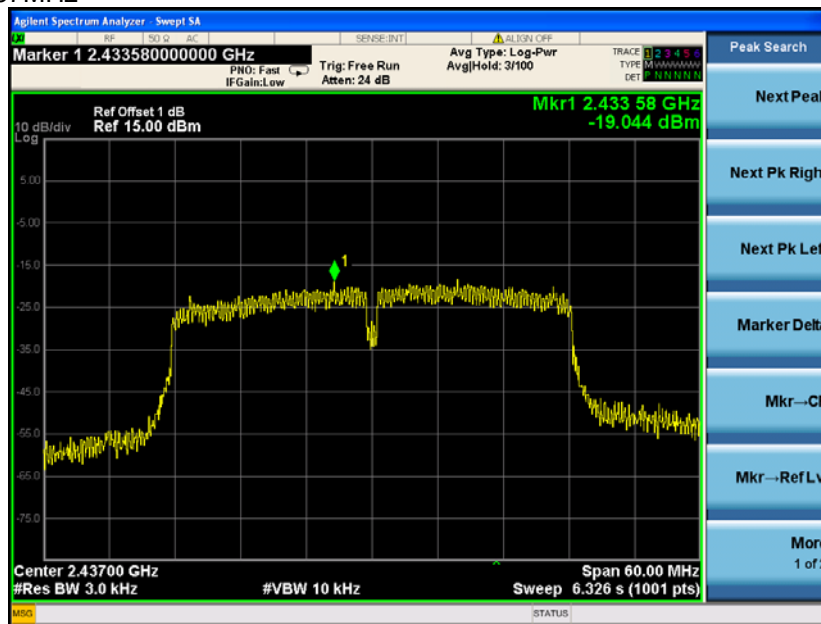
TX 802.11n/HT40 Mode			
Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-17.161	8	PASS
2437 MHz	-19.044	8	PASS
2452 MHz	-17.330	8	PASS

CH: 2412MHz

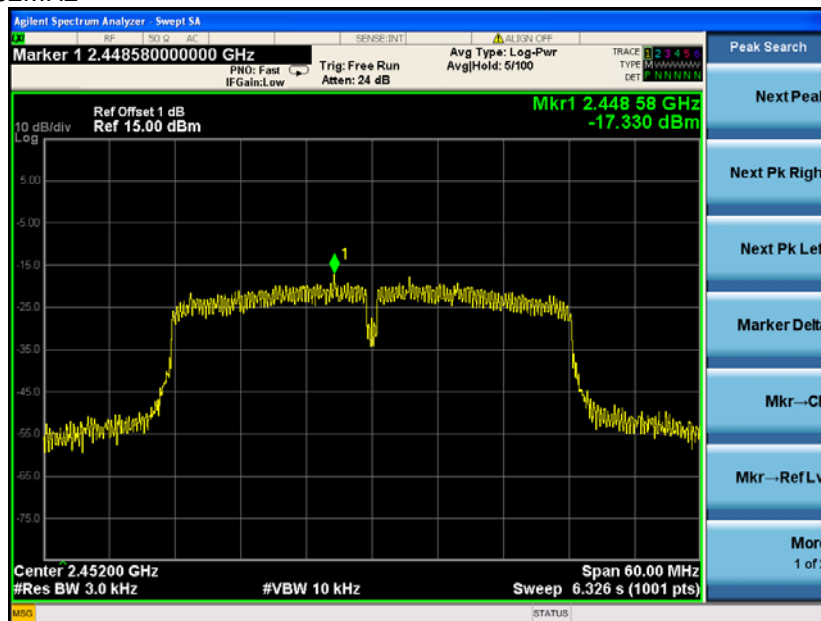




CH: 2437MHz



CH: 2462MHz





8 PEAK OUTPUT POWER TEST

8.1 Test Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The EUT was directly connected to the Power meter.

8.3 Measurement Equipment Used

Same as Radiated Emission Measurement

8.4 Test Result

PASS

All the test modes completed for test.

TX 802.11b Mode			
Test	Frequency	Maximum Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH01	2412	15.43	30
CH06	2437	15.15	30
CH11	2462	15.07	30
TX 802.11g Mode			
CH01	2412	14.22	30
CH06	2437	14.14	30
CH11	2462	14.01	30
TX 802.11n20 Mode			
CH01	2412	13.67	30
CH06	2437	13.33	30
CH11	2462	13.12	30
TX 802.11n40 Mode			
CH03	2422	11.84	30
CH06	2437	11.57	30
CH09	2452	11.26	30



9 OUT OF BAND EMISSIONS TEST

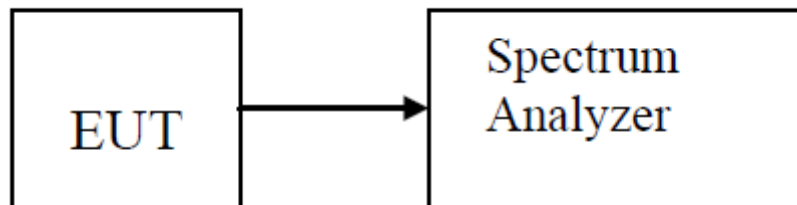
9.1 Test Limit

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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

9.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as TX operation and connect directly to the spectrum analyzer.
3. Set spectrum analyzer RBW= 100kHz. VBW= 300kHz
4. Set detected by the spectrum analyser with peak detector.

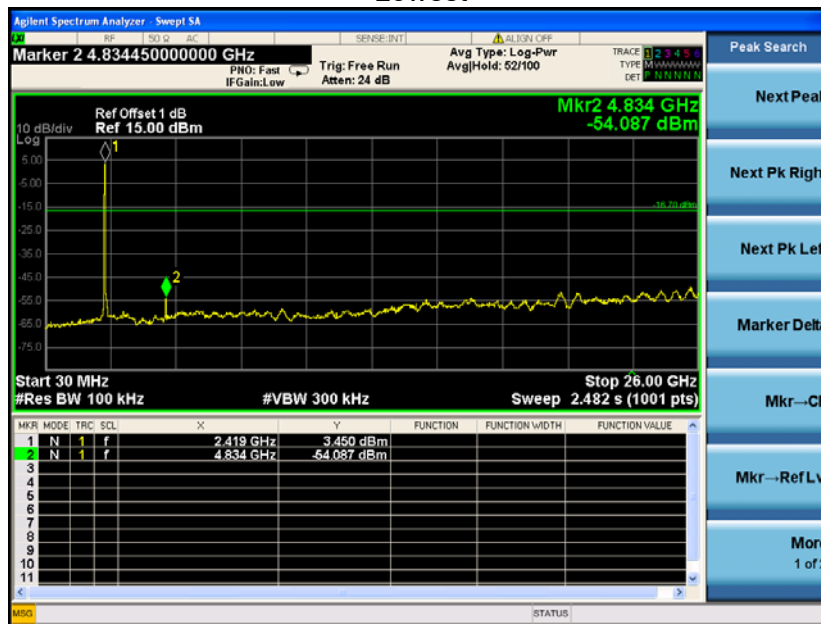
9.3 Test Setup



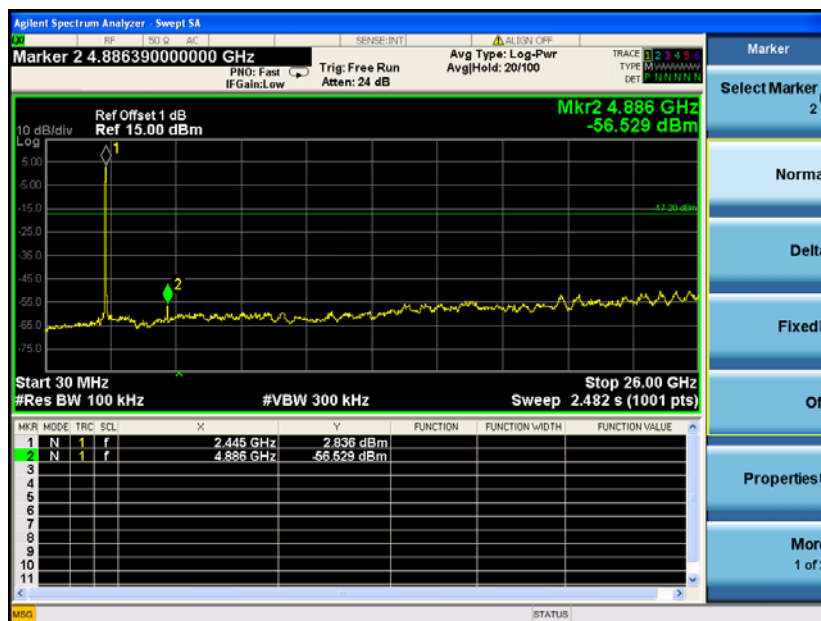
7.4 Test Result

PASS

All the test modes completed for test.

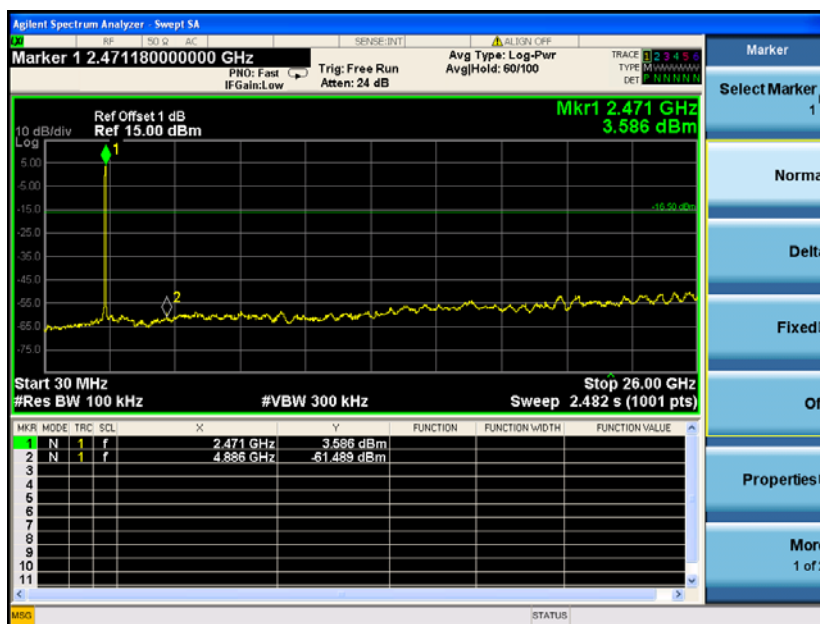
TX 802.11b Mode
Lowest

Middle



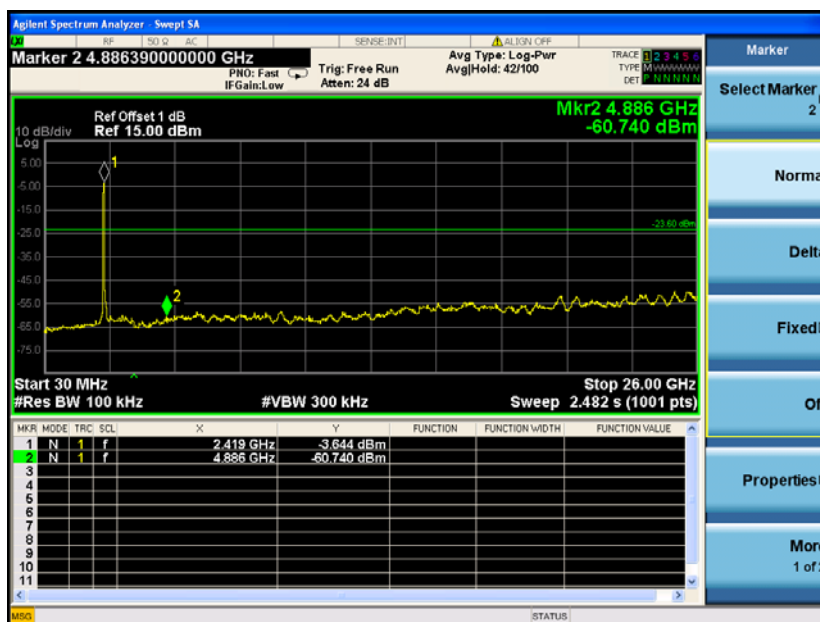


Highest



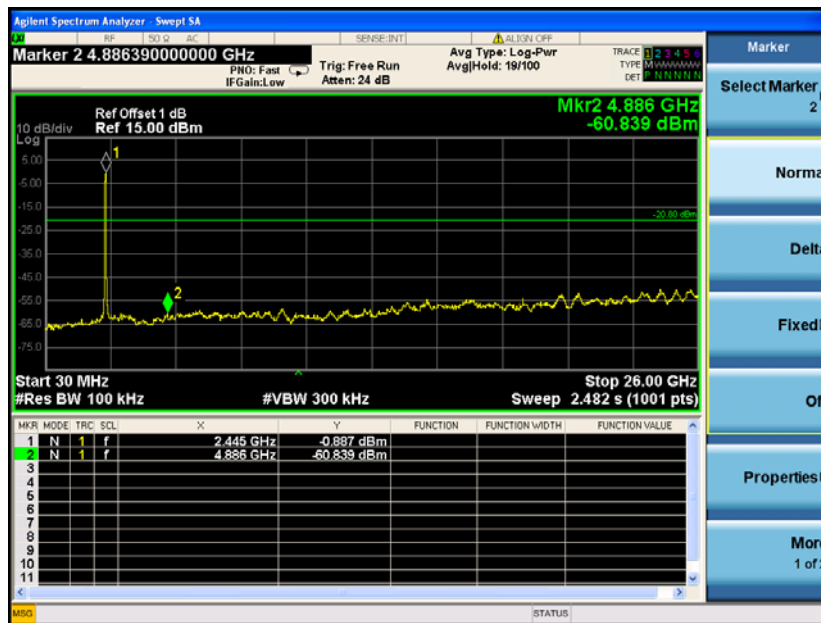
TX 802.11g Mode

Lowest

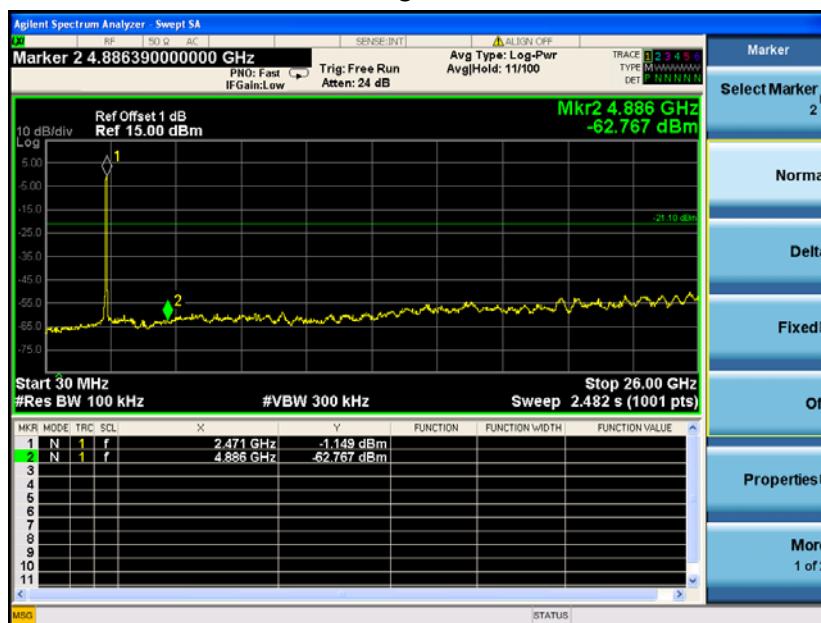


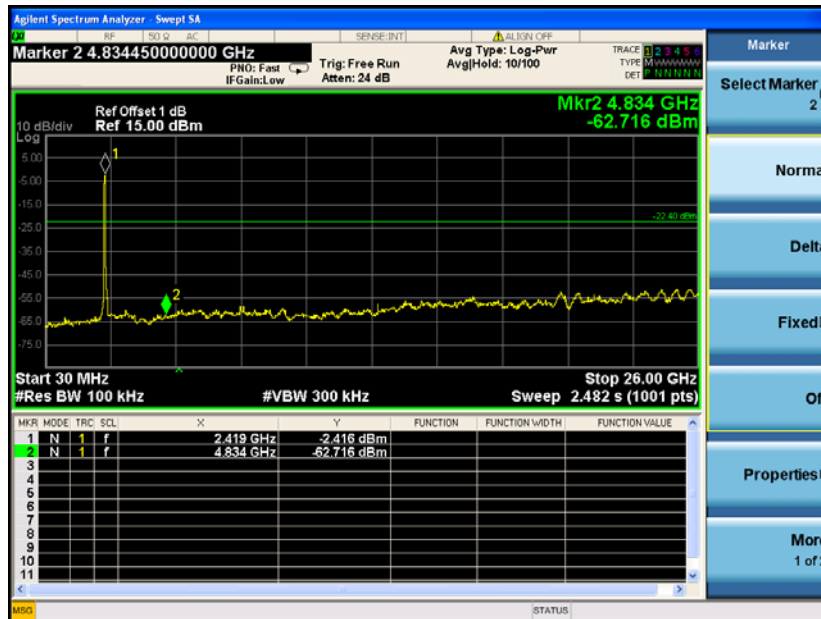


Middle

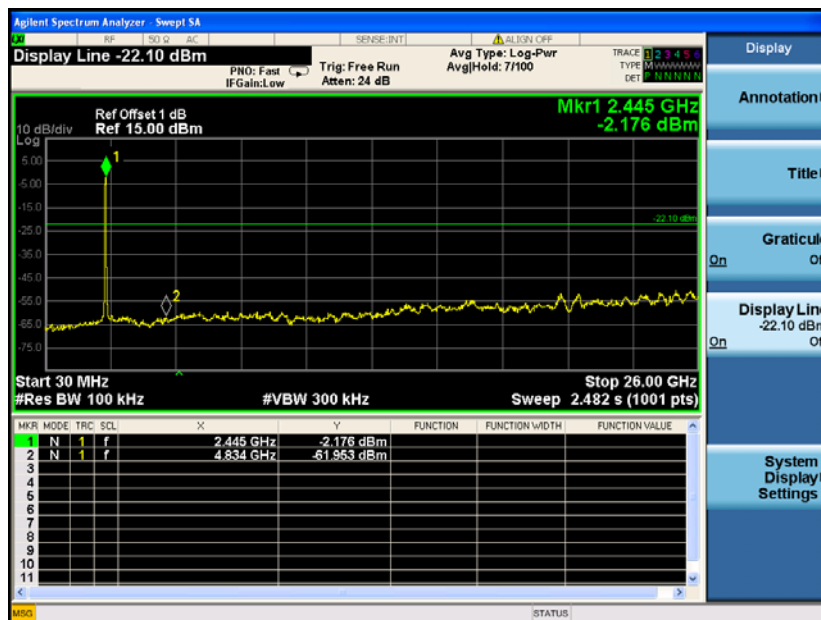


Highest



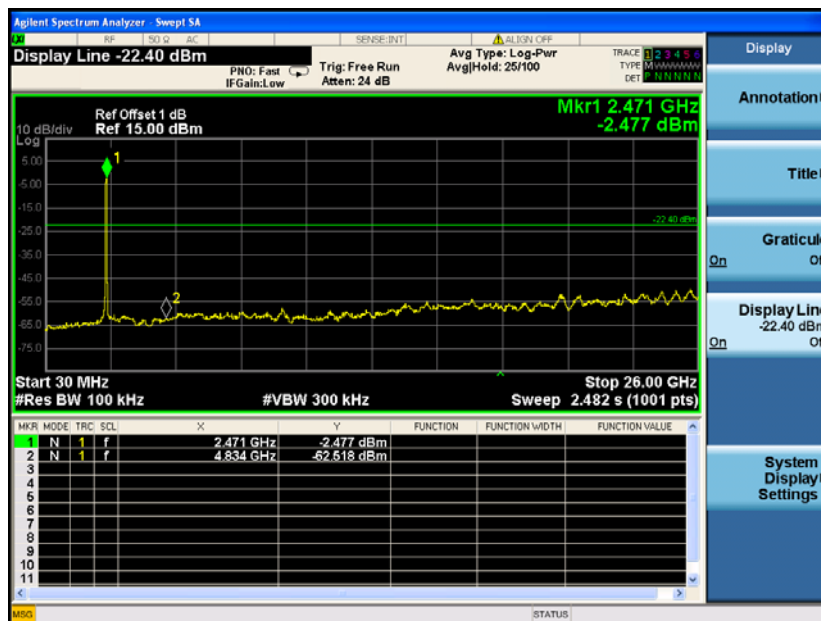
TX 802.11n/HT20 Mode
Lowest

Middle



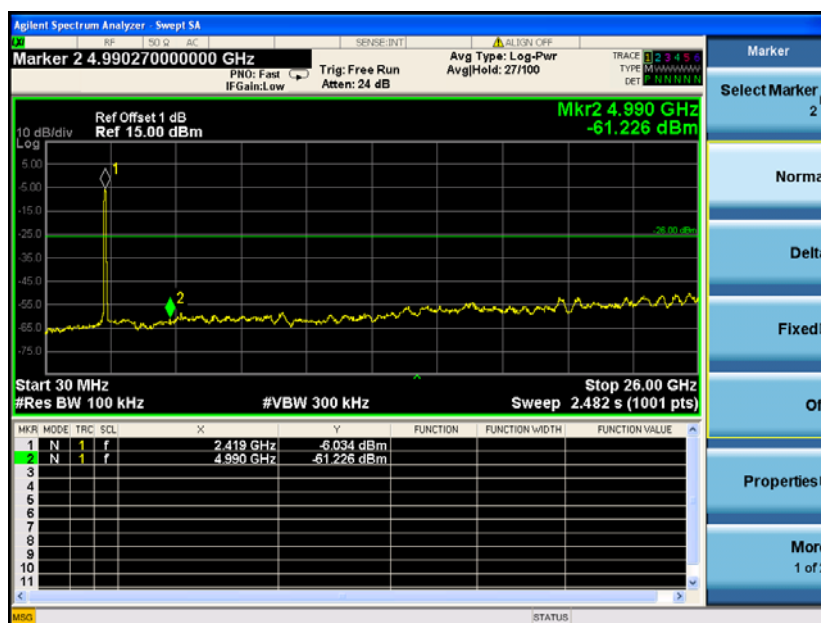


Highest



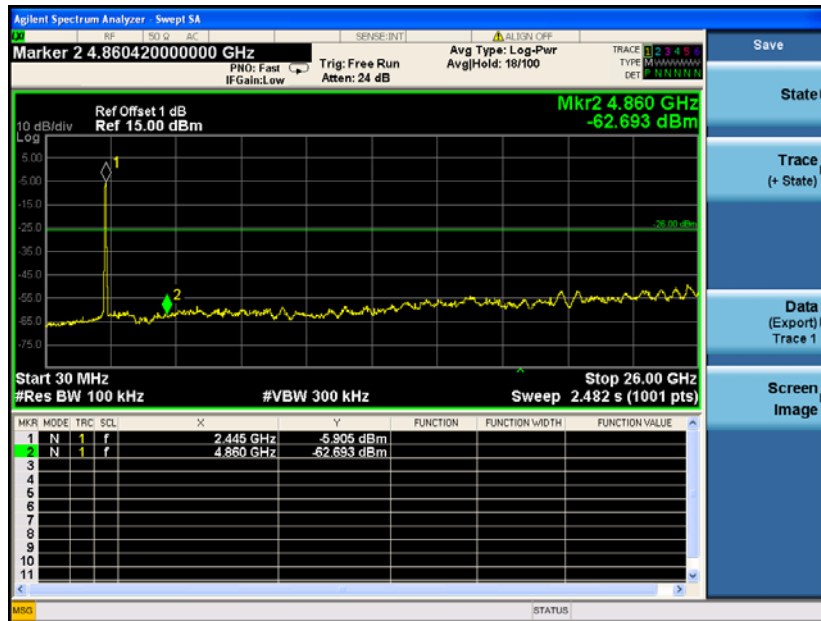
TX 802.11n/HT40 Mode

Lowest

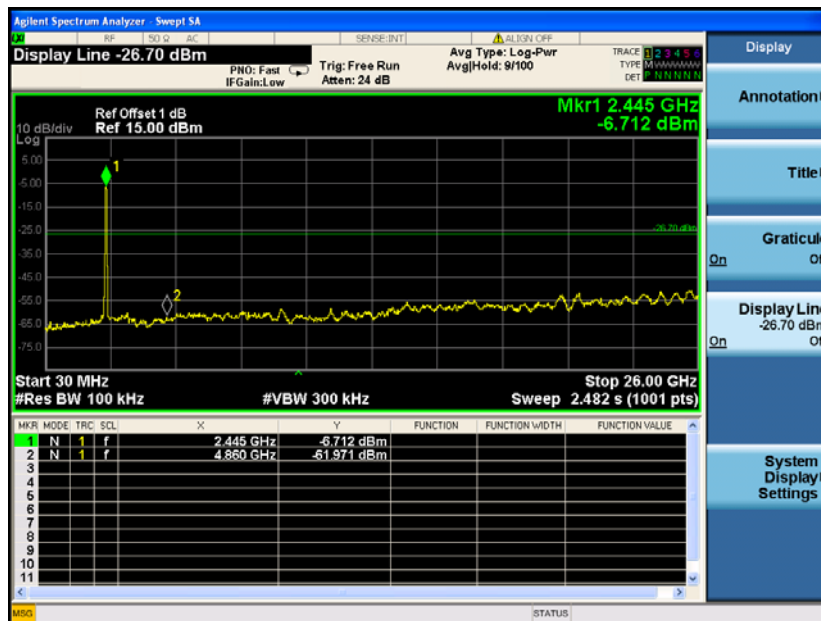




Middle



Highest





10 ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

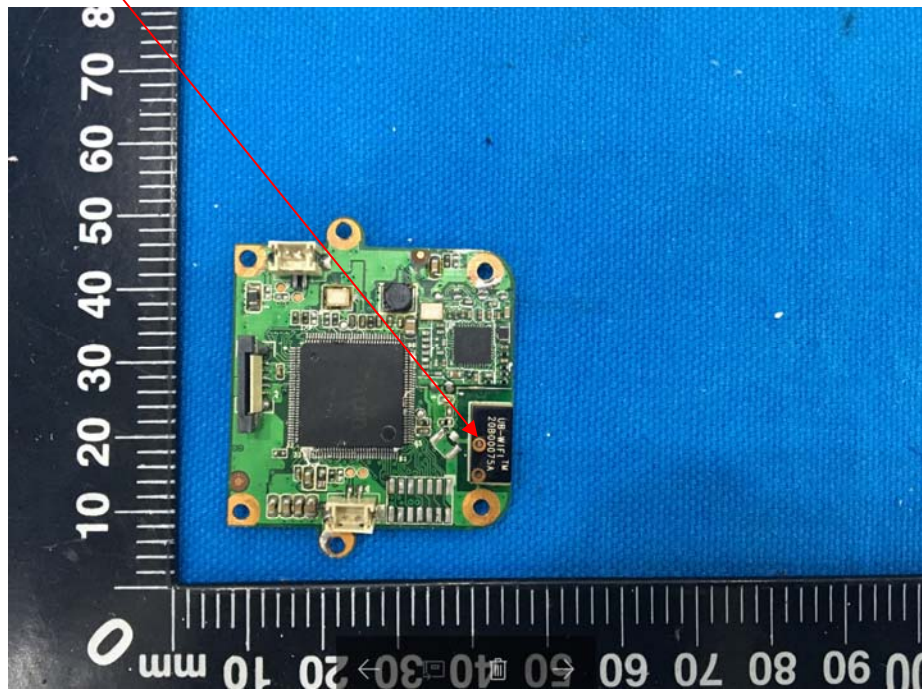
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

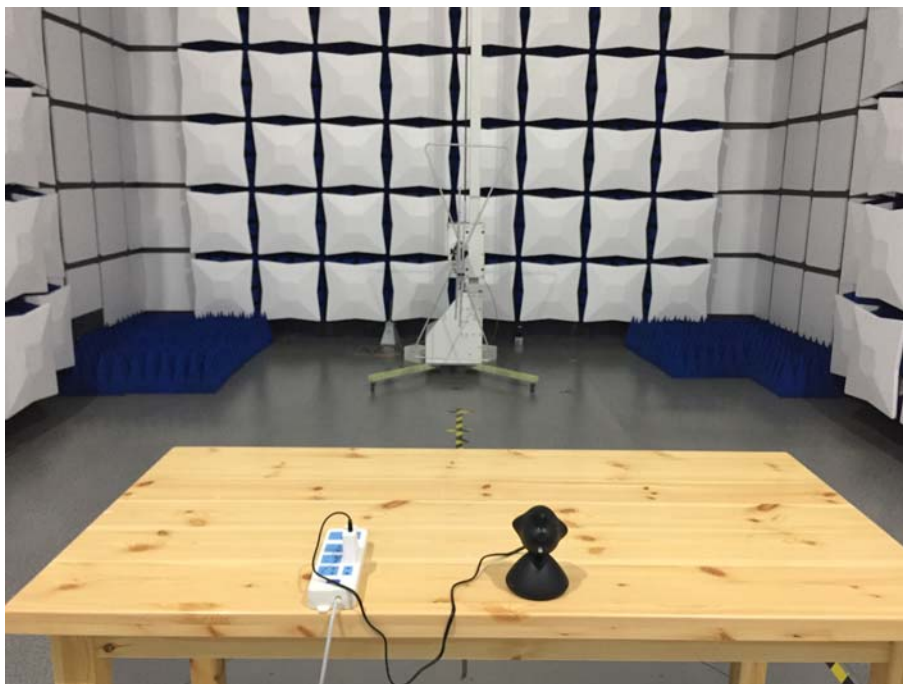
The antenna used in this product is a Internal antenna, The directional gains of antenna used for transmitting is 2dBi.

WIFI ANTENNA



11 PHOTOGRAPH OF TEST

11.1 Radiated Emission





11.2 Conducted Emission

