



TEST REPORT

For

Applicant : Playjam Ltd.

Address : 4th Floor 41-42, Eastcastle Street, London, London W1W 8DU,
United Kingdom

Product Name : Playjam Console

Model Name : PJGC002

Brand Name : Playjam

FCC ID : 2AATXPJGC002

IC : 11079A-PJGC002

Report No. : MTE/SAL/F14121779

Date of Issue : Mar. 03, 2015

Issued by : Most Technology Service Co., Ltd.

Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial
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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Playjam Console
Brand Name: Playjam
Model Number: PJGC002
FCC ID: 2AATXPJGC002
IC: 11079A-PJGC002
Applicant: Playjam Ltd.
 4th Floor 41-42, Eastcastle Street, London, London W1W 8DU,
 United Kingdom
Manufacturer: Playjam Ltd.
 4th Floor 41-42, Eastcastle Street, London, London W1W 8DU,
 United Kingdom
Technical Standards: 47 CFR Part 15 Subpart C
 RSS-210 Issue 8, Annex 8
 RSS-102 Issue 4,
 RSS-Gen Issue 4
File Number: MTE/SAL/F14121779
Date of test: Nov. 17, 2014 – Mar. 02, 2015
Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Sophia Liu

Nov. 17, 2014 – Mar. 02, 2015

Review by (+ signature):



Henry Chen

Mar. 02, 2015

Approved by (+ signature):

Yvette Zhou(Manager)

Mar. 03, 2015

2. GENERAL INFORMATION

2.1 Product Information

Product	Playjam Console
Brand Name	Playjam
Model Number	PJGC002
Series Model Name:	N/A
Series Model Difference description:	N/A
Power Supply	DC 5V by Adapter Input AC 120V/60Hz
Frequency Range	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Modulation Type:	IEEE 802.11b mode: DSSS IEEE 802.11g mode: OFDM 802.11n Standard-20 MHz Channel mode: OFDM 802.11n Standard-40 MHz Channel mode: OFDM
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Antenna Type	Internal PCB Antenna, 2.88dBi
Temperature Range	-20°C ~ +50°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 Objective

The objective of the report is to perform tests according to RSS-210 Issue 8, RSS-102 Issue 4 and RSS-Gen Issue 4 for the EUT IC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices
2	RSS-210 Issue 8	Low-power Licence-exempt Radio communication Devices (All Frequency Bands): Category I Equipment
3	RSS-Gen Issue 4	General Requirements and Information for the Certification of Radio communication Equipment
4	RSS-102 Issue 4	Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands)

2.3 Test Standards and Results

No.	Section	Test Items	Result	Date of Test
1	FCC 15.247 (i)	RF EXPOSURE	PASS	2015-02-05
2	FCC 15.203 RSS-GEN Cl.8.3	Antenna Requirement	PASS	2015-02-05
3	FCC15.207 (a) RSS-GEN Cl.8.8	AC Power Line Conducted Emission	PASS	2015-02-05
4	FCC15.209, 15.247(d) RSS-GEN Cl.8.9, Cl.8.10 RSS-210 Cl. A2.9	Radiated Emission	PASS	2015-02-05
5	FCC15.247(b)(3) RSS-210 Cl. A8.4	Conducted Peak Output Power	PASS	2015-02-05
6	FCC15.247(a)(2) RSS-210 Cl. A8.2	6dB Emission Bandwidth	PASS	2015-02-05
7	FCC15.247(e) RSS-210 Cl. A8.2	Power Spectral Density	PASS	2015-02-05
8	FCC15.247(d) RSS-210 Cl. A8.5	Band Edge and Conducted Spurious Emissions	PASS	2015-02-05
9	FCC15.247(d) RSS-210 Cl. A8.5	Restricted Frequency Bands	PASS	2015-02-05

Note: 1. The test result judgment is decided by the limit of measurement standard
 2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3.1 TEST FACILITY

Test Site:	Most Technology Service Co., Ltd
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014 and CISPR 16 requirements. The FCC Registration Number is 490827 . The IC Registration Number is 7103A-1 .
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument	All measuring equipment is in accord with ANSI C63.4:2014 and CISPR 16
Tolerance:	requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2014.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2014, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Monitor	PHILIPS	HEW8220Q	HCWBZR10016-3A	Shielded, 1.8m	Unshielded, 1.8m

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration Interval
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/10	1 Year
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2014/03/10	1 Year
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/07	1 Year
4	Terminator	Hubersuhner	50Ω	No.1	2014/03/07	1 Year
5	RF Cable	SchwarzBeck	N/A	No.1	2014/03/07	1 Year
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2014/03/10	1 Year
7	Bilog Antenna	Sunol	JB3	A121206	2014/03/14	1 Year
8	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2014/03/14	1 Year
9	Horn Antenna	Penn Engineering	9034	8376	2014/03/14	1 Year
10	Cable	Resenberger	N/A	NO.1	2014/03/07	1 Year
11	Cable	SchwarzBeck	N/A	NO.2	2014/03/07	1 Year
12	Cable	SchwarzBeck	N/A	NO.3	2014/03/07	1 Year
13	DC Power Filter	DuoJi	DL2×30B	N/A	2014/03/07	1 Year
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2014/03/07	1 Year
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2014/03/07	1 Year
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2014/03/10	1 Year
17	Absorbing Clamp	Luthi	MDS21	3635	2014/03/12	1 Year
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2014/03/07	1 Year
19	AC Power Source	Kikusui	AC40MA	LM003232	2014/03/10	1 Year
20	Test Analyzer	Kikusui	KHA1000	LM003720	2014/03/10	1 Year
21	Line Impedance Network	Kikusui	LIN40MA-PCR-L	LM002352	2014/03/10	1 Year
22	ESD Tester	Kikusui	KES4021	LM003537	2014/03/07	1 Year
23	EMC PRO System	EM Test	UCS-500-M4	V0648102026	2014/03/10	1 Year
24	Signal Generator	IFR	2032	203002/100	2014/03/10	1 Year
25	Amplifier	A&R	150W1000	301584	2014/03/14	1 Year
26	CDN	FCC	FCC-801-M2-25	47	2014/03/10	1 Year
27	CDN	FCC	FCC-801-M3-25	107	2014/03/10	1 Year
28	EM Injection Clamp	FCC	F-203I-23mm	403	2014/03/10	1 Year
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2014/03/10	1 Year
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2014/03/10	1 Year
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2014/03/10	1 Year
32	Telecommunication Test Equipment	R&S	CMU200	N/A	2014/03/07	1 Year
33	8 Loop Antenna	ARA	PLA-1030/B	1029	2015/01/10	1 Year

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 RF EXPOSURE

5.1.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

5.1.2 Result:

Mode	Frequency (MHz)	Antenna Gain		Conducted Power		Evaluation Distance(cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
802.11 b	2412	2.88	1.94	9.45	8.81	20	0.003	1
802.11 g	2462	2.88	1.94	9.49	8.89	20	0.003	1
802.11n(20)	2462	2.88	1.94	9.16	8.24	20	0.003	1
802.11n(40)	2452	2.88	1.94	9.13	8.18	20	0.003	1

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

5.2 ANTENNA REQUIREMENT

5.2.1 Applicable Standard

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.2.2 Evaluation Criteria

(a) Antenna must be permanently attached to the unit.

(b) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.2.3 Result: Compliance.

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is 2.88 dBi, fulfill the requirement of this section.

5.3 AC Power Line Conducted Emission

5.3.1 Requirement

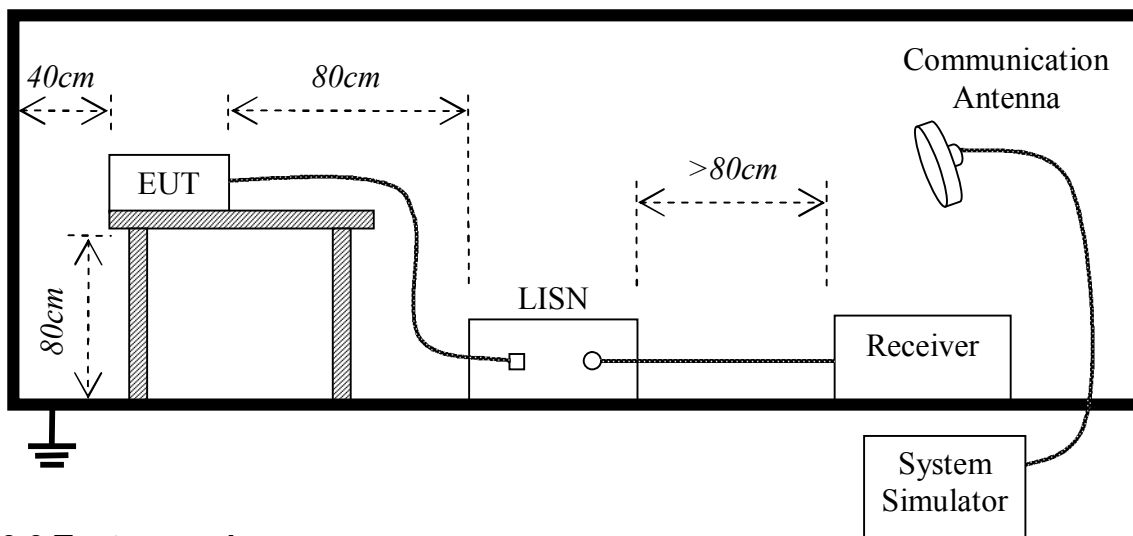
A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the and 150 kHz-30 MHz, shall not exceed the limits in the following table:

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

****Note:** 1. the lower limit shall apply at the band edges.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.2 Block Diagram of Test Setup



5.3.3 Test procedure

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.
4. The bandwidth of test receiver (ESCI) set at 9 KHz.
5. All data was recorded in the Quasi-peak and average detection mode.

5.3.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following pages.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

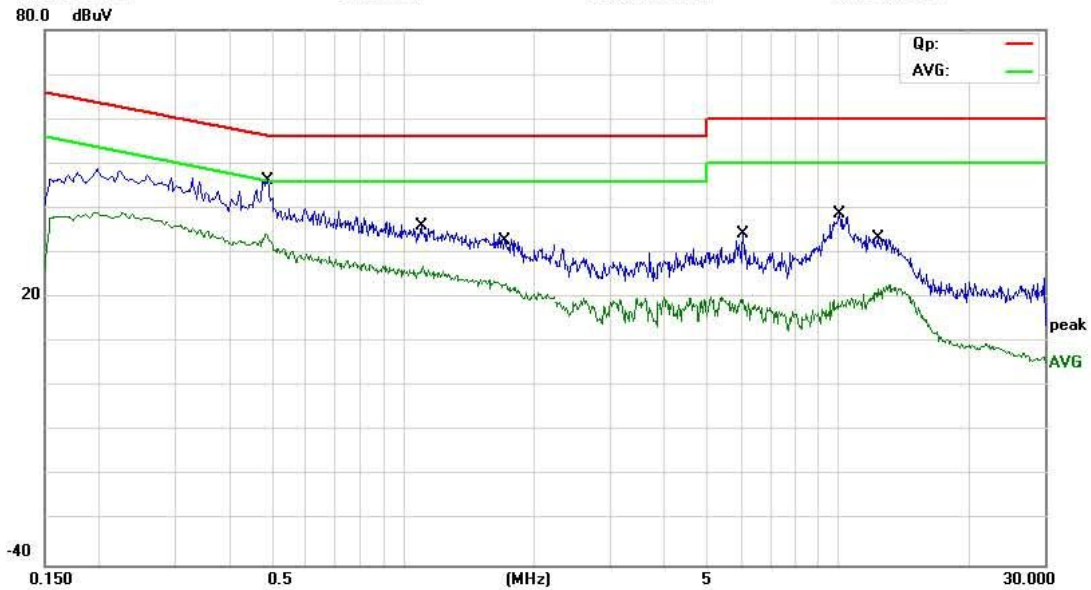
Conducted Emission Measurement

File: PJGC002

Data: #14

Date: 14/11/18/

Time: 11/53/36



Site: MOST #1

Phase: **L1**

Temperature: 24.8

Limit: FCC Part15 B Class B QP

Power: DC 5V by Adapter

Humidity: 54 %

EUT: Playjam Console

M/N: PJGC002

Mode: 802.11b

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4882	33.10	10.08	43.18	56.20	-13.02	QP	
2	*	0.4882	26.76	10.08	36.84	46.20	-9.36	AVG	
3		1.0935	21.10	9.91	31.01	56.00	-24.99	QP	
4		1.0935	15.57	9.91	25.48	46.00	-20.52	AVG	
5		1.7087	18.86	9.29	28.15	56.00	-27.85	QP	
6		1.7087	13.47	9.29	22.76	46.00	-23.24	AVG	
7		6.1175	11.63	11.33	22.96	60.00	-37.04	QP	
8		6.1175	4.90	11.33	16.23	50.00	-33.77	AVG	
9		10.0262	21.55	9.00	30.55	60.00	-29.45	QP	
10		10.0262	6.39	9.00	15.39	50.00	-34.61	AVG	
11		12.3908	17.05	9.00	26.05	60.00	-33.95	QP	
12		12.3908	9.09	9.00	18.09	50.00	-31.91	AVG	

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

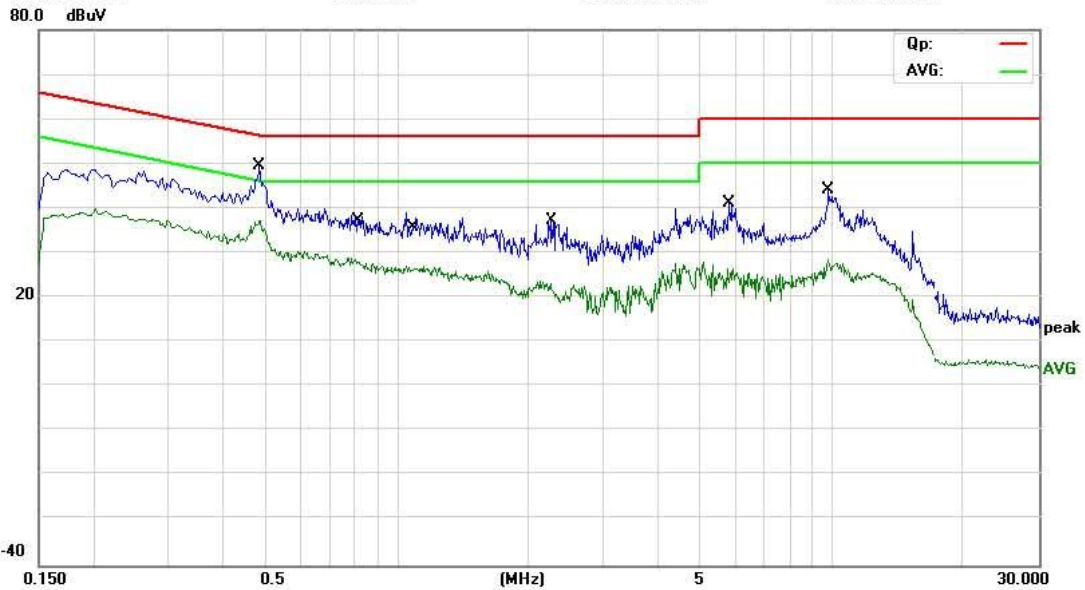
Conducted Emission Measurement

File: PJGC002

Data: #13

Date: 14/11/18/

Time: 11/48/09



Site: MOST #1

Phase: **N**

Temperature: 24.8

Limit: FCC Part15 B Class B QP

Power: DC 5V by Adapter

Humidity: 54 %

EUT: Playjam Console

M/N: PJGC002

Mode: 802.11b

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4883	35.42	10.08	45.50	56.20	-10.70	QP	
2	*	0.4883	28.94	10.08	39.02	46.20	-7.18	AVG	
3		0.8190	23.47	10.00	33.47	56.00	-22.53	QP	
4		0.8190	17.68	10.00	27.68	46.00	-18.32	AVG	
5		1.0926	22.45	9.91	32.36	56.00	-23.64	QP	
6		1.0926	16.66	9.91	26.57	46.00	-19.43	AVG	
7		2.2647	19.06	9.26	28.32	56.00	-27.68	QP	
8		2.2647	11.19	9.26	20.45	46.00	-25.55	AVG	
9		5.7986	18.79	11.52	30.31	60.00	-29.69	QP	
10		5.7986	9.03	11.52	20.55	50.00	-29.45	AVG	
11		9.7528	24.72	9.15	33.87	60.00	-26.13	QP	
12		9.7528	14.73	9.15	23.88	50.00	-26.12	AVG	

*:Maximum data x:Over limit l:over margin

Engineer Signature: lidegan

5.4 Radiated Emission

5.4.1 Requirement

According to FCC section 15.247(d), 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)).

According to FCC section 15.209(a), Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at 3-meter)	Test Distance (m)	Field Strength (dB $\mu\text{V/m}$ at 3-meter)
0.009 - 0.490	2400/F(kHz)	300	
0.490 - 1.705	24000/F(kHz)	30	
1.705-30	30	30	
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Note:

1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

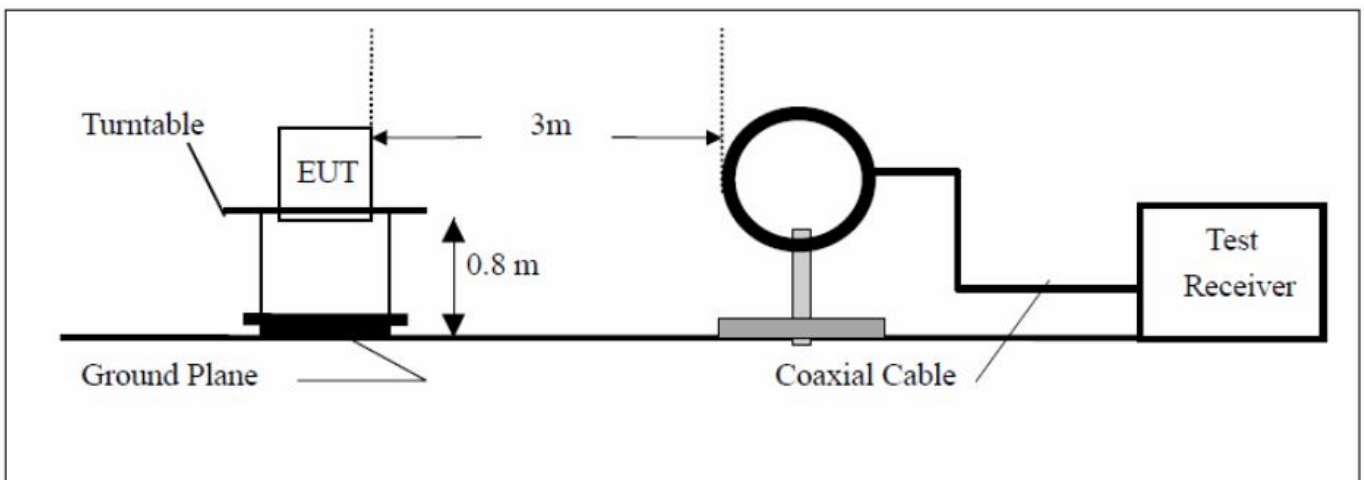
2. For above 1000MHz, limit field strength of harmonics: 54dB $\mu\text{V/m}$ @3m (AV) and 74dB $\mu\text{V/m}$ @3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-Gen Cl.8.10, also should comply with the radiated emission limits specified in RSS-Gen Cl.8.9 (above table)

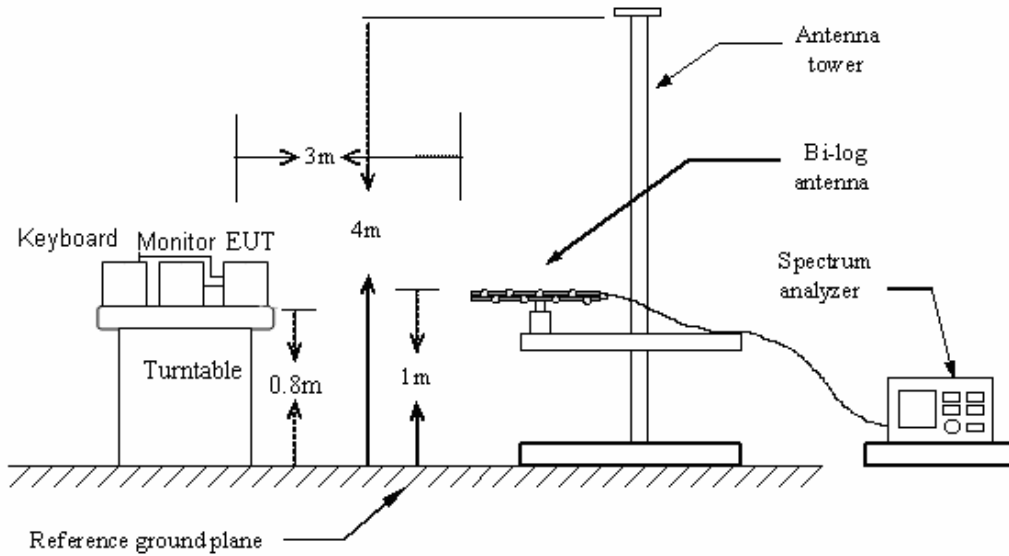
5.4.2 Test Configuration

Test Setup:

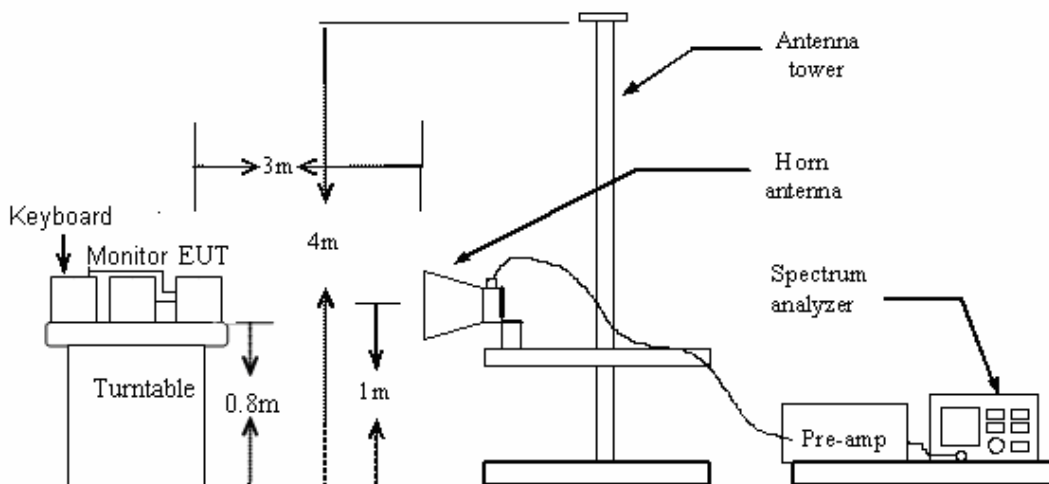
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz

**5.4.3 Test Procedure:**

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

5. Set the spectrum analyzer in the following setting as:

Below 1GHz: PEAK: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO QP: RBW=120 kHz / Sweep=AUTO

Above 1GHz: (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

5.4.4 Test Result

Pass

Remark:

1. During the test, pre-scan the 802.11b, 802.11g, 802.11n(20M), 802.11n(40M) modulation, and found the 802.11b modulation which it is worse case in above 1GHz and the 802.11b Low channel modulation which it is worse case in below 1GHz.

2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Please refer the following pages.

Below 1GHz:

Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002
70.0 dBuV/m

Data: #36

Date: 2014-11-18

Time: 9:23:59



Site: Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: DC 5.0V by Adapter

Humidity: 50 %

EUT: Playjam Console

Distance: 3m

M/N: PJGC002

Mode: 802.11b

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		171.9946	19.52	17.10	36.62	43.50	-6.88	QP		
2	*	204.9551	22.14	16.66	38.80	43.50	-4.70	QP		
3		240.8304	22.44	17.22	39.66	46.00	-6.34	QP		
4		331.3546	22.25	17.01	39.26	46.00	-6.74	QP		
5		419.1081	18.96	19.92	38.88	46.00	-7.12	QP		
6	!	890.7278	13.41	27.31	40.72	46.00	-5.28	QP		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002
70.0 dBuV/m

Data: #35

Date: 2014-11-18

Time: 9:01:24



Site: Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: DC 5.0V by Adapter

Humidity: 50 %

EUT: Playjam Console

Distance: 3m

M/N: PJGC002

Mode: 802.11b

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		49.3594	18.18	10.66	28.84	40.00	-11.16	QP		
2		171.9946	18.91	17.10	36.01	43.50	-7.49	QP		
3	*	204.2377	23.50	16.76	40.26	43.50	-3.24	QP		
4	!	226.0994	24.28	16.42	40.70	46.00	-5.30	QP		
5		257.4222	21.00	17.55	38.55	46.00	-7.45	QP		
6		890.7278	11.94	27.31	39.25	46.00	-6.75	QP		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang

Above 1GHz



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File :PJGC002

Data :#70

Date: 2015-3-1

Time: 15:53:32

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJG C002

Mode: 802.11b--CH1

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	X	2412.000	97.28	-8.41	88.87	74.00	14.87	peak		
2	*	2412.000	91.36	-8.41	82.95	54.00	28.95	AVG		
3		4824.000	47.89	-5.91	41.98	74.00	-32.02	peak		
4		4824.000	42.38	-5.91	36.47	54.00	-17.53	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #71

Date: 2015-3-1

Time: 16:04:39

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH1

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2412.000	95.06	-8.41	86.65	74.00	12.65	peak		
2	*	2412.000	90.16	-8.41	81.75	54.00	27.75	AVG		
3		4824.000	45.33	-5.91	39.42	74.00	-34.58	peak		
4		4824.000	40.19	-5.91	34.28	54.00	-19.72	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #68

Date: 2015-3-1

Time: 15:29:58

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH6

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2437.000	95.07	-8.37	86.70	74.00	12.70	peak		
2	*	2437.000	88.36	-8.37	79.99	54.00	25.99	AVG		
3		4874.000	45.32	-5.31	40.01	74.00	-33.99	peak		
4		4874.000	39.46	-5.31	34.15	54.00	-19.85	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #69

Date: 2015-3-1

Time: 15:41:39

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH6

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2437.000	96.05	-8.37	87.68	74.00	13.68	peak		
2	*	2437.000	90.23	-8.37	81.86	54.00	27.86	AVG		
3		4874.000	46.83	-5.31	41.52	74.00	-32.48	peak		
4		4874.000	41.58	-5.31	36.27	54.00	-17.73	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #66

Date: 2015-3-1

Time: 15:06:54

96.9 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH11

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2462.000	97.28	-8.33	88.95	74.00	14.95	peak		
2	*	2462.000	92.31	-8.33	83.98	54.00	29.98	AVG		
3		4924.000	48.09	-4.71	43.38	74.00	-30.62	peak		
4		4924.000	41.69	-4.71	36.98	54.00	-17.02	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #67

Date: 2015-3-1

Time: 15:17:49

96.9 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH11

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1	X	2462.000	92.93	-8.33	84.60	74.00	10.60	peak		
2	*	2462.000	87.55	-8.33	79.22	54.00	25.22	AVG		
3		4924.000	43.82	-4.71	39.11	74.00	-34.89	peak		
4		4924.000	38.65	-4.71	33.94	54.00	-20.06	AVG		

*:Maximum data x:Over limit !:over margin

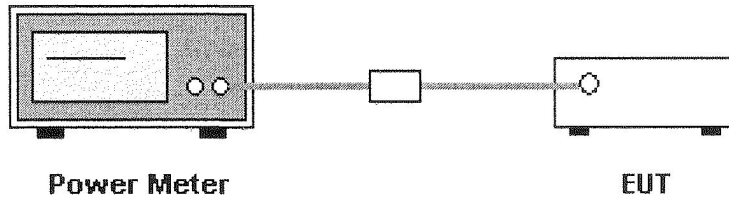
Engineer Signature: Kang

5.5 Conducted Peak Output Power

5.5.1 Requirement

According to FCC section 15.247(b)(3), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725– 5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

5.5.2 Block Diagram of Test Setup



5.5.3 Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
3. Add a correction factor to the reading.

5.5.4 Test Result

Test Item:	Peak Output Power	Temperature :	20°C
Test Engineer:	Kang	Relative Humidity :	55%

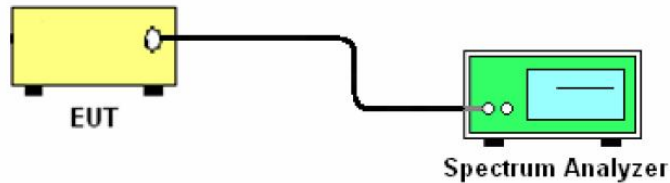
Mode	Channel	Frequency (MHz)	Peak Output Power(dBm)	Limit		Pass/Fail
				(mW)	(dBm)	
802.11b	Low	2412	9.45	1000	30	Pass
	Middle	2437	8.59	1000	30	Pass
	High	2462	8.71	1000	30	Pass
802.11g	Low	2412	8.83	1000	30	Pass
	Middle	2437	9.11	1000	30	Pass
	High	2462	9.49	1000	30	Pass
802.11n (20MHz)	Low	2412	8.69	1000	30	Pass
	Middle	2437	8.84	1000	30	Pass
	High	2462	9.16	1000	30	Pass
802.11n (40MHz)	Low	2422	9.03	1000	30	Pass
	Middle	2437	9.01	1000	30	Pass
	High	2452	9.13	1000	30	Pass

5.6 6dB Emission Bandwidth

5.6.1 Test Requirement

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.6.2 Block Diagram of Test Setup



5.6.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02 clause 8.1 Option 1:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

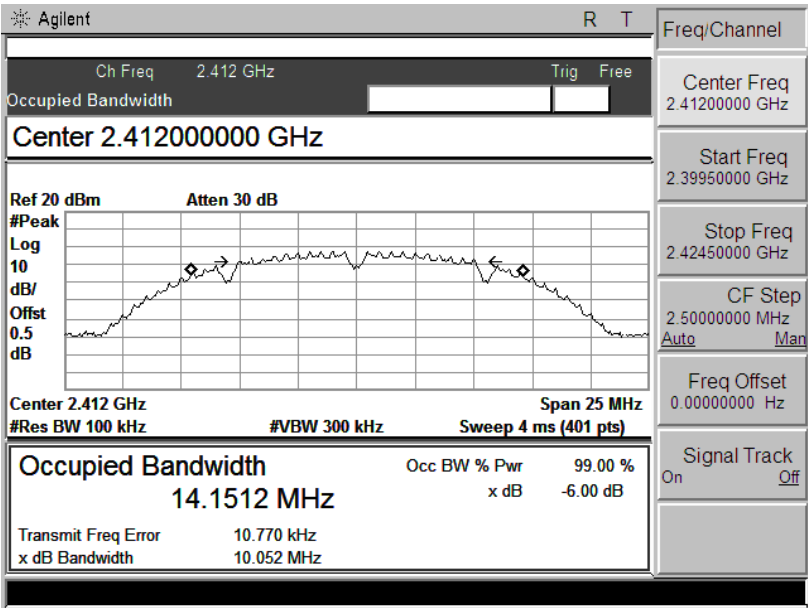
5.6.4 Test Result

Pass

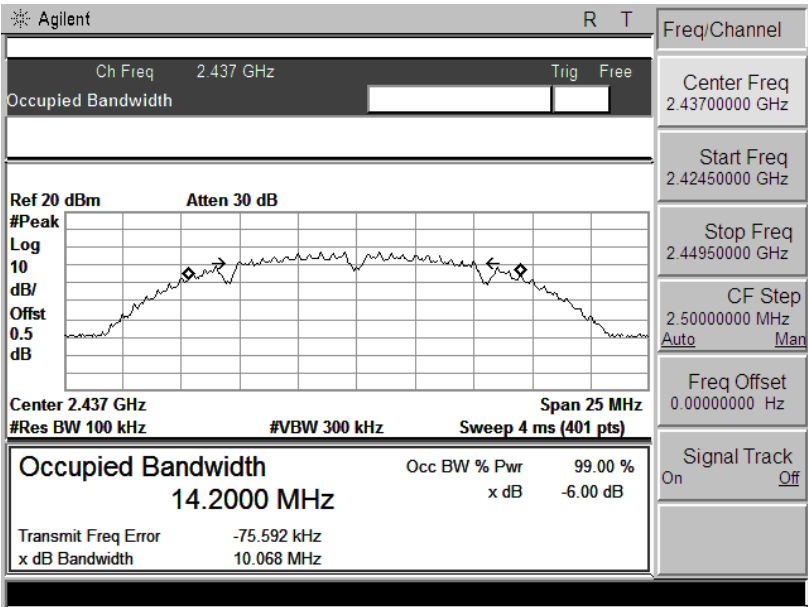
Test Item:	6dB Emission Bandwidth	Temperature :	20°C
Test Engineer:	Kang	Relative Humidity :	55%

Mode	Channel	Frequency (MHz)	6dB Bandwidth(MHz)	Limit(KHz)
802.11b	Low	2412	10.052	≥ 500
	Middle	2437	10.068	≥ 500
	High	2462	10.063	≥ 500
802.11g	Low	2412	16.382	≥ 500
	Middle	2437	16.385	≥ 500
	High	2462	16.373	≥ 500
802.11n (20MHz)	Low	2412	17.694	≥ 500
	Middle	2437	17.658	≥ 500
	High	2462	17.575	≥ 500
802.11n (40MHz)	Low	2422	35.831	≥ 500
	Middle	2437	35.759	≥ 500
	High	2452	35.994	≥ 500

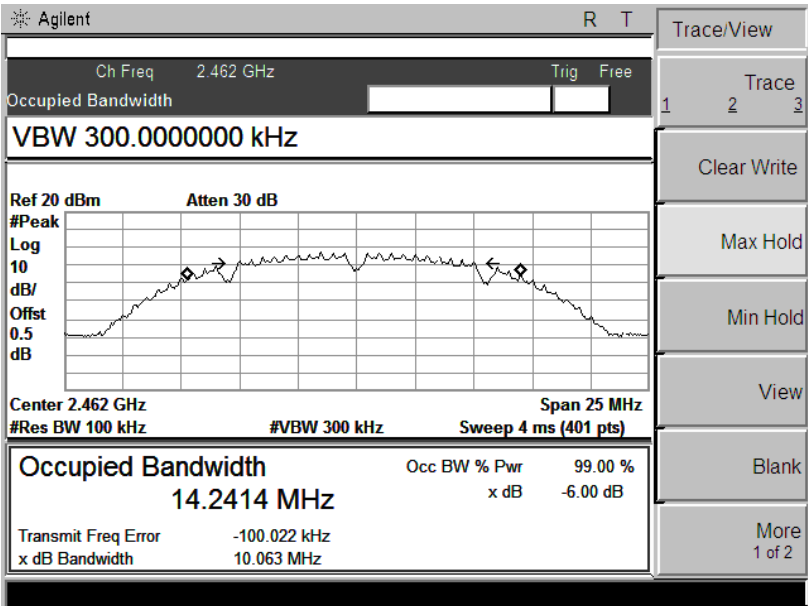
802.11 b Mode



Ch 1

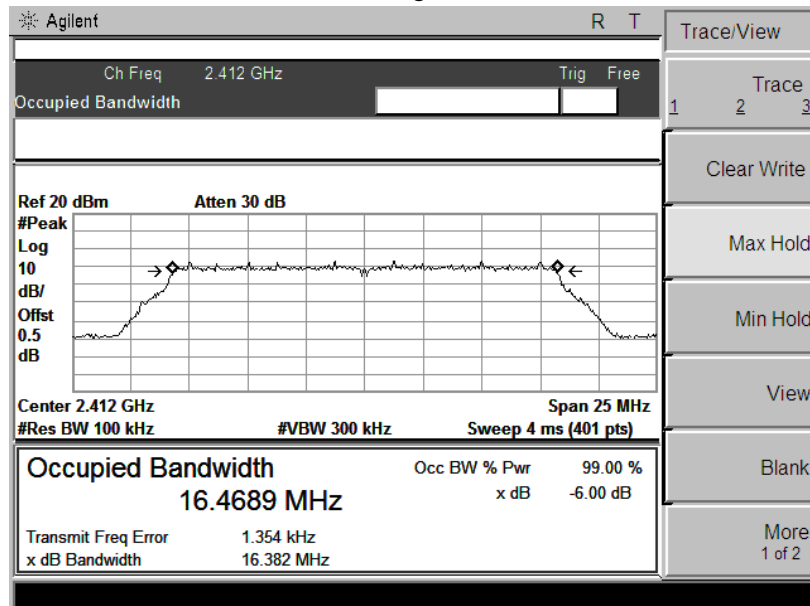


Ch 6

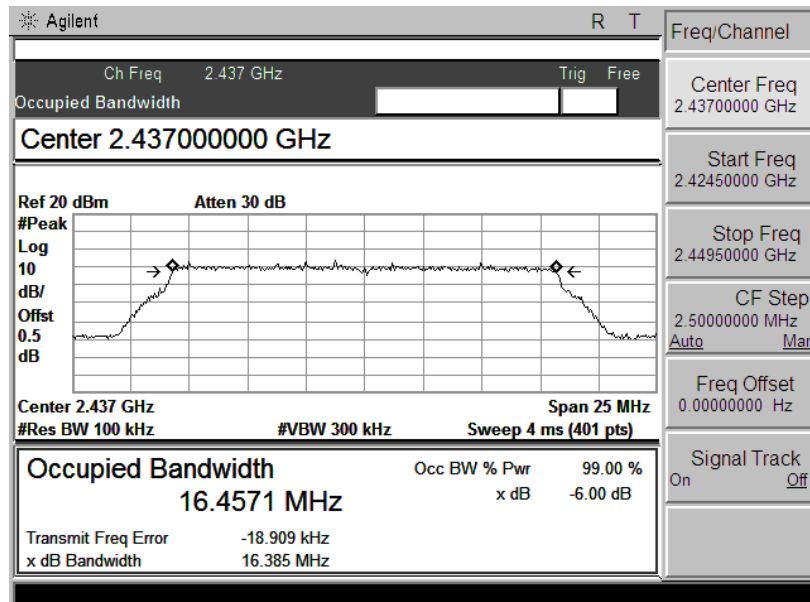


Ch 11

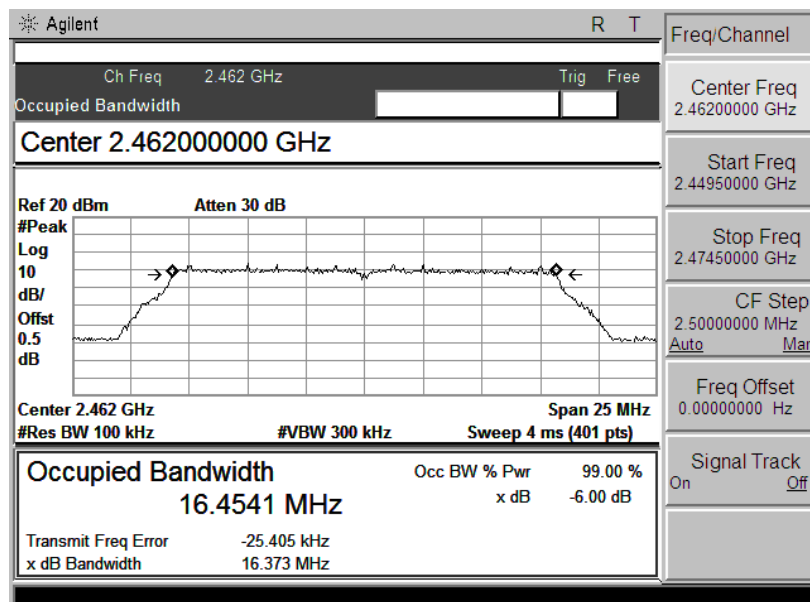
802.11 g Mode



Ch 1

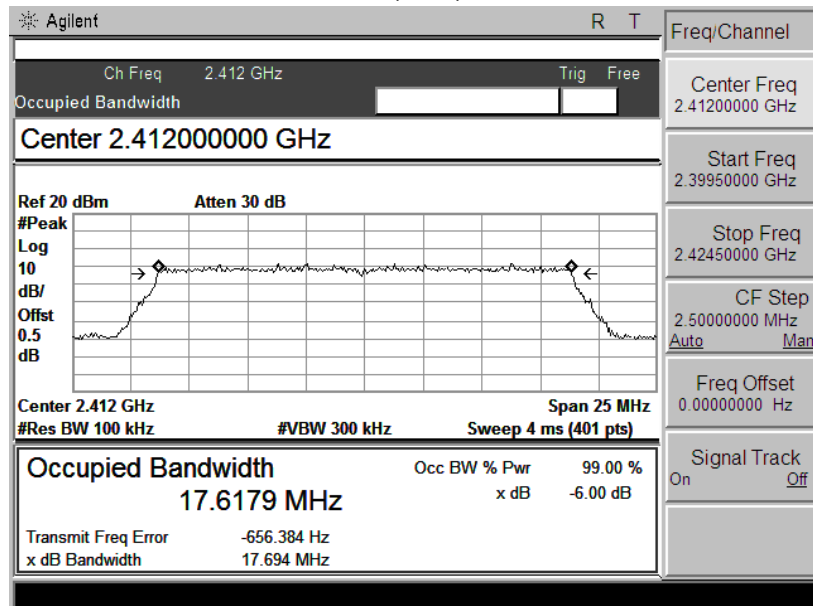


Ch 6

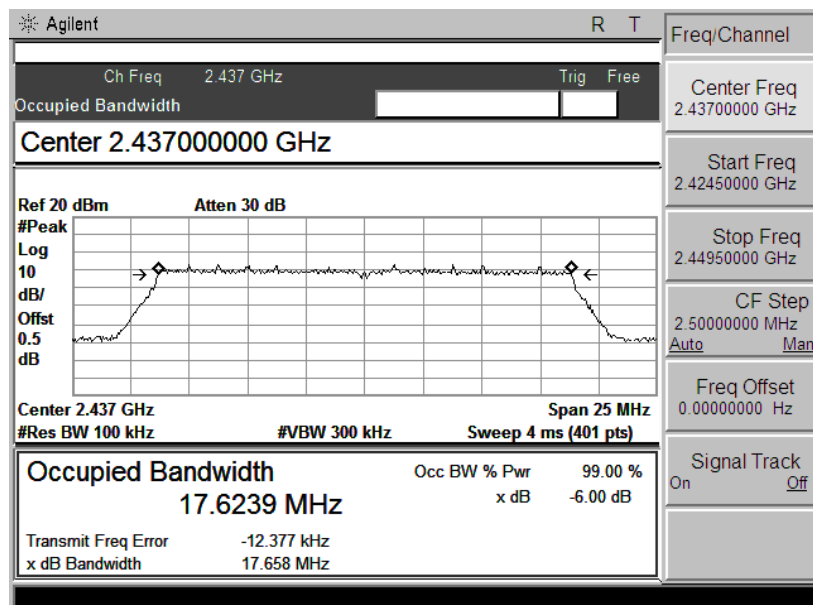


Ch 11

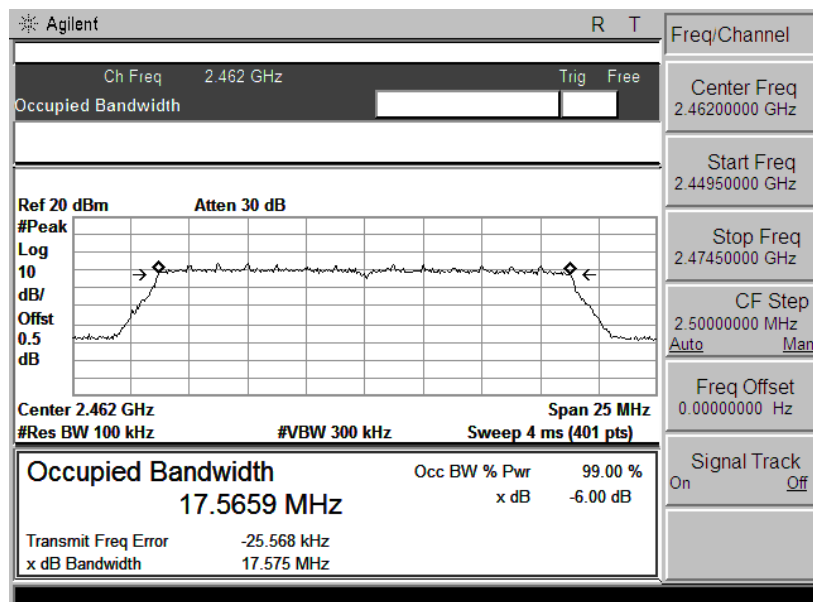
802.11 n(20M) Mode



Ch 1

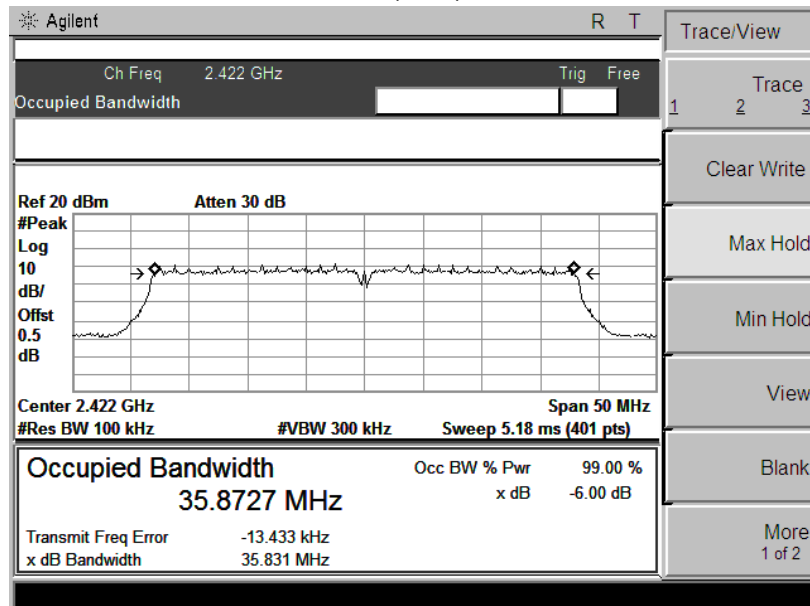


Ch 6

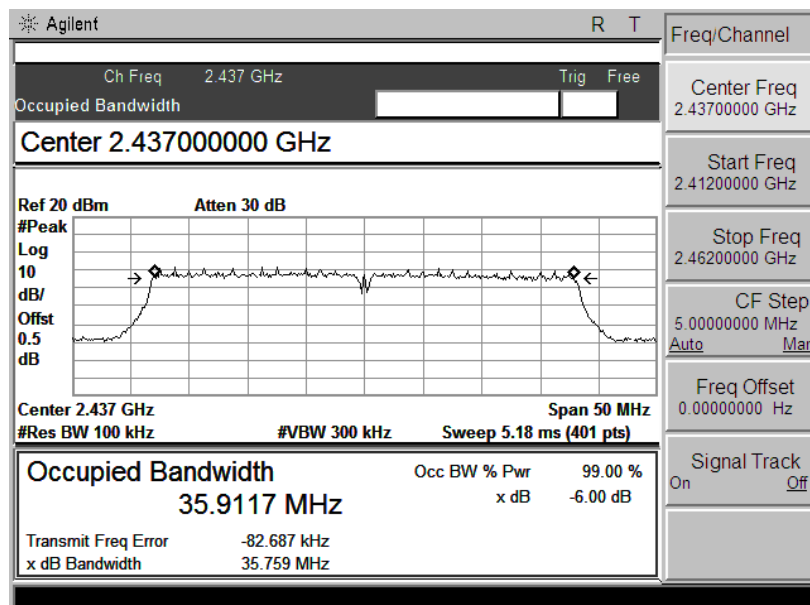


Ch 11

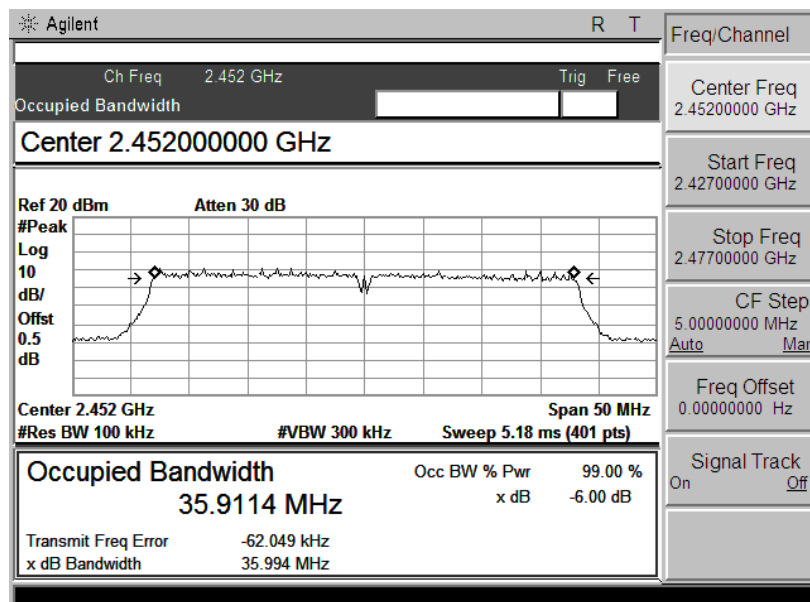
802.11 n(40M) Mode



Ch 3



Ch 6



Ch 9

5.7 POWER SPECTRAL DENSITY

5.7.1 Applicable Standard

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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

5.7.2 Block Diagram of Test Setup



5.7.3 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause10.2:

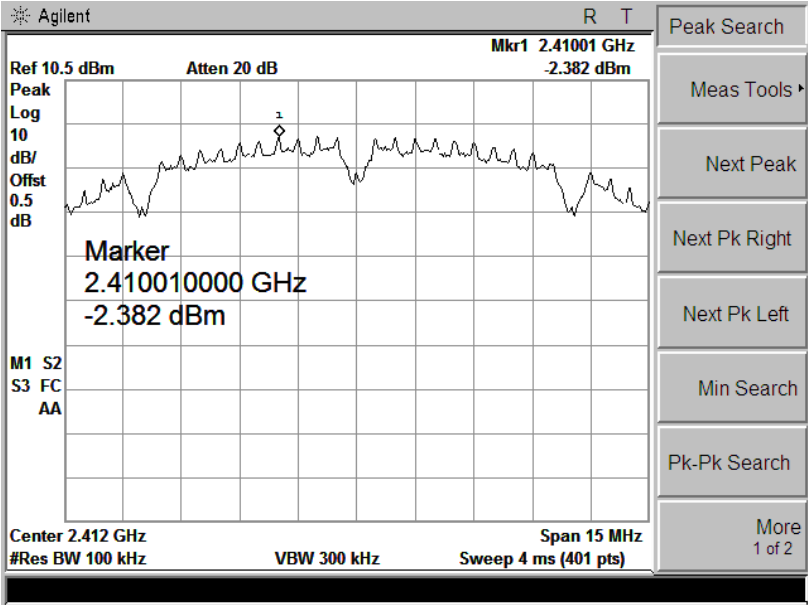
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.7.4 Test Result

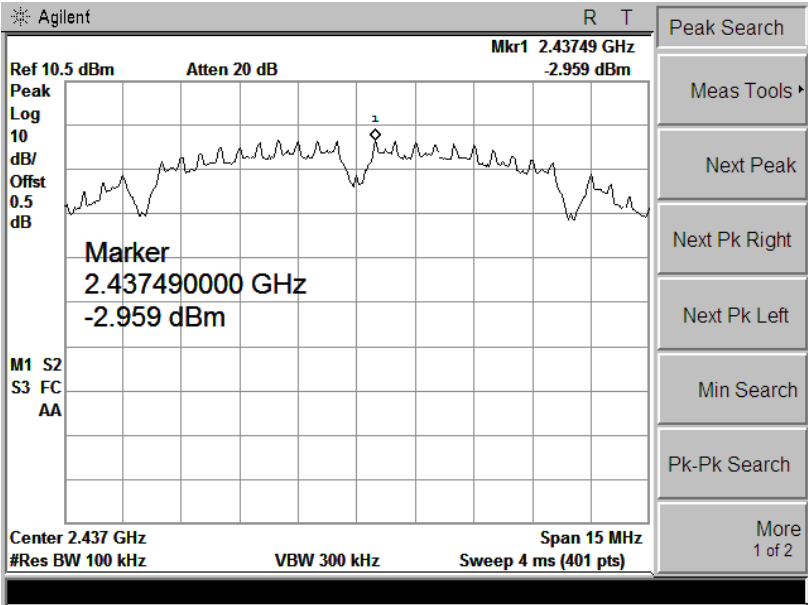
Test Item:	POWER SPECTRAL DENSITY	Temperature :	20°C
Test Engineer:	Kang	Relative Humidity :	55%

Mode	Channel	Frequency (MHz)	PSD (dBm/100kHz)	Limit (dBm/100kHz)	Result
802.11b	Low	2412	-2.382	≤ 8	Pass
	Middle	2437	-2.959	≤ 8	Pass
	High	2462	-2.940	≤ 8	Pass
802.11g	Low	2412	-6.596	≤ 8	Pass
	Middle	2437	-6.827	≤ 8	Pass
	High	2462	-6.885	≤ 8	Pass
802.11n (20MHz)	Low	2412	-6.745	≤ 8	Pass
	Middle	2437	-6.612	≤ 8	Pass
	High	2462	-6.517	≤ 8	Pass
802.11n (20MHz)	Low	2422	-8.817	≤ 8	Pass
	Middle	2437	-8.520	≤ 8	Pass
	High	2452	-8.454	≤ 8	Pass

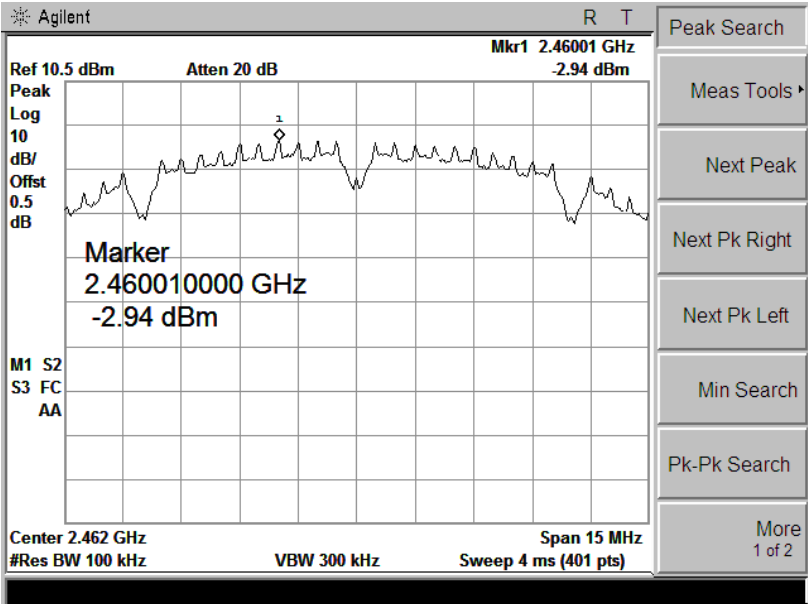
802.11 b Mode



Ch 1

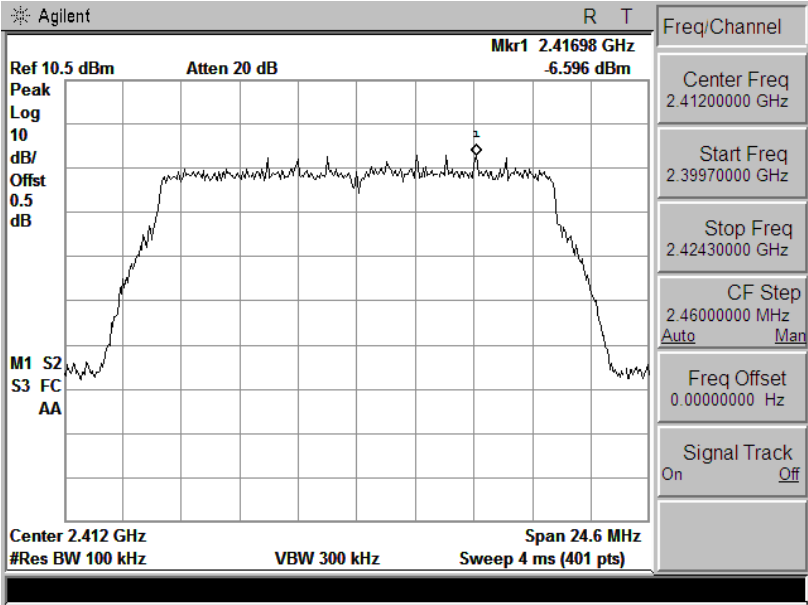


Ch 6

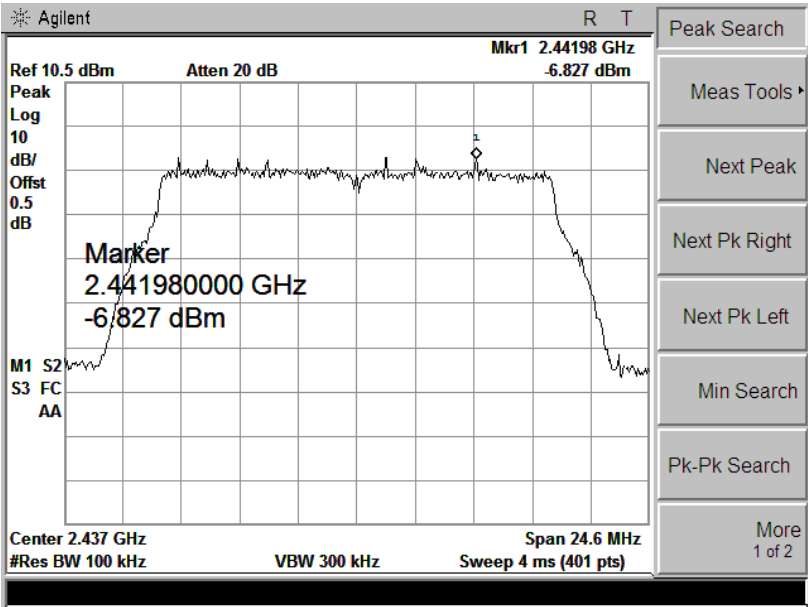


Ch 11

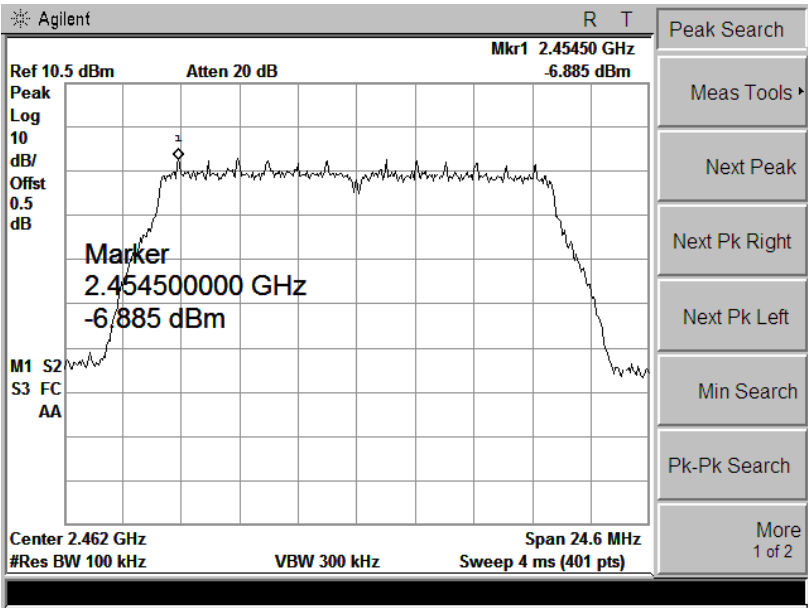
802.11 g Mode



Ch 1

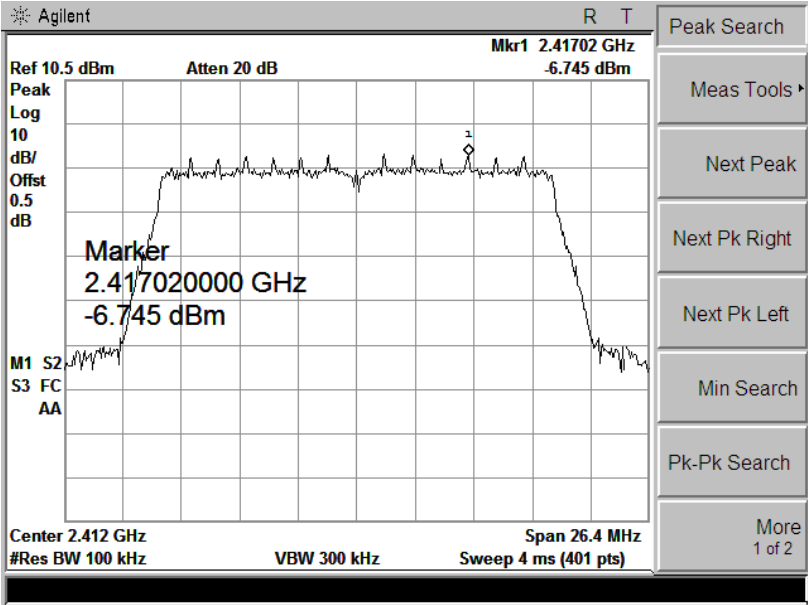


Ch 6

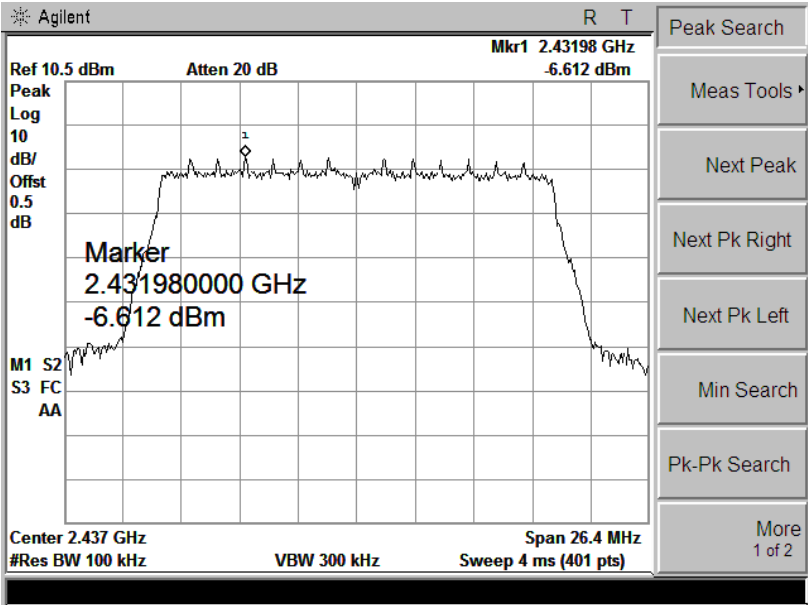


Ch 11

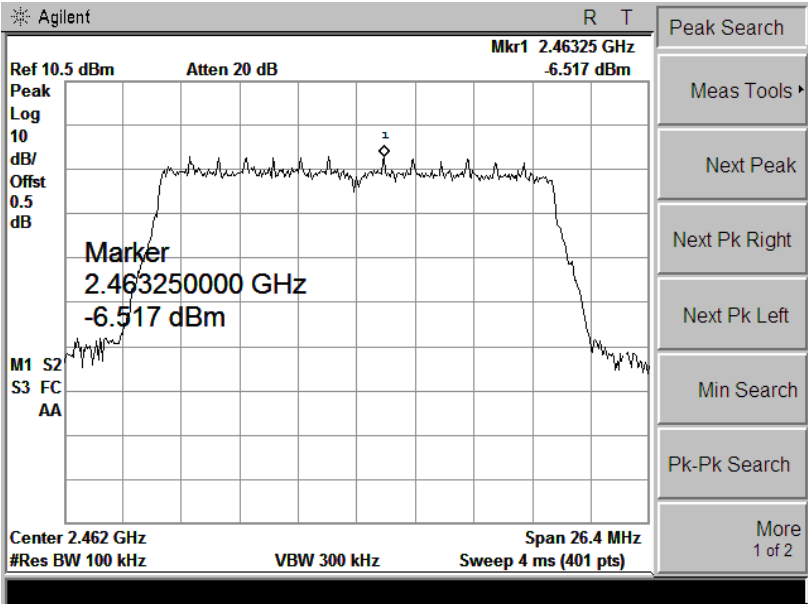
802.11 n(20M) Mode



Ch 1

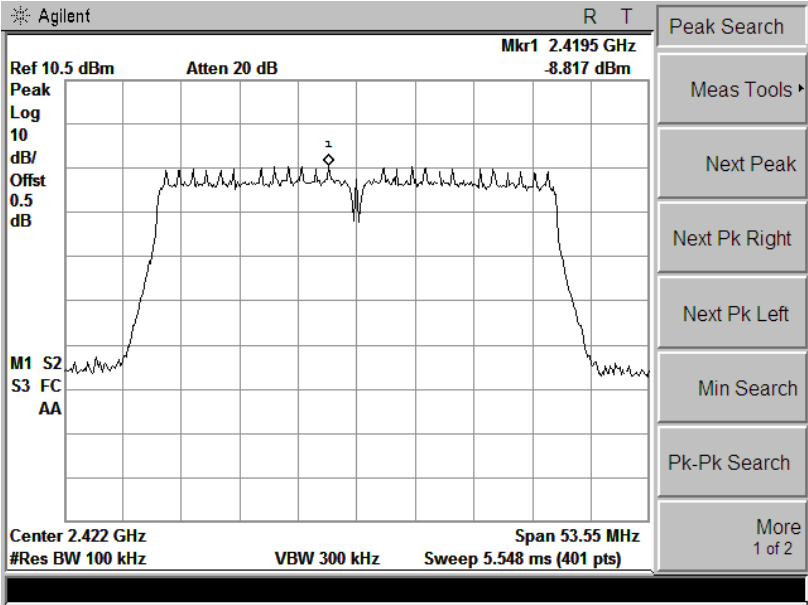


Ch 6

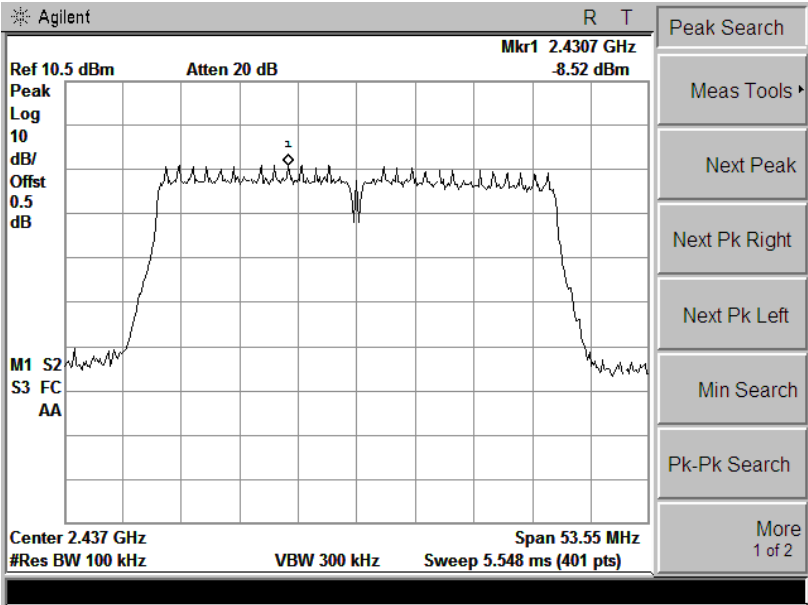


Ch 11

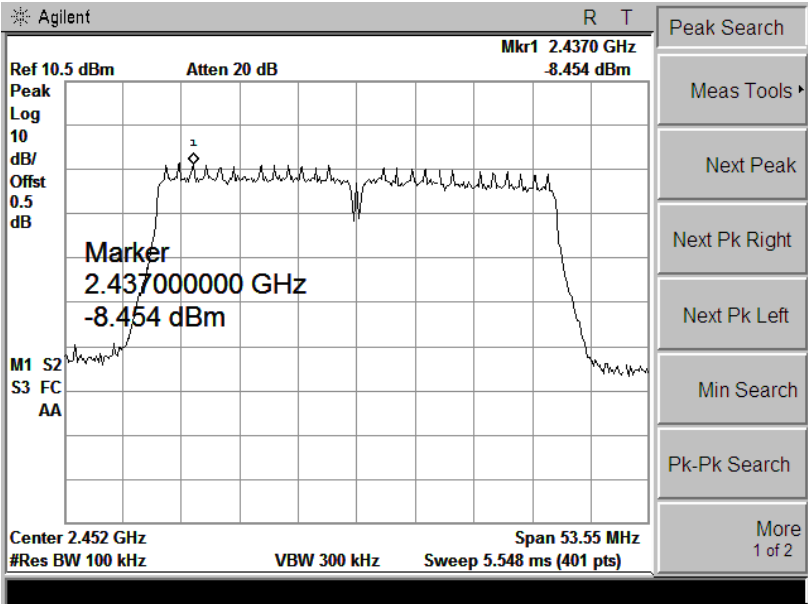
802.11 n(40M) Mode



Ch 1



Ch 6



Ch 9

5.8 Band Edge and Conducted Spurious Emissions

5.8.1 Test Requirement

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. Attenuation below the general limits specified in §15.209(a) is not required.

5.8.2 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

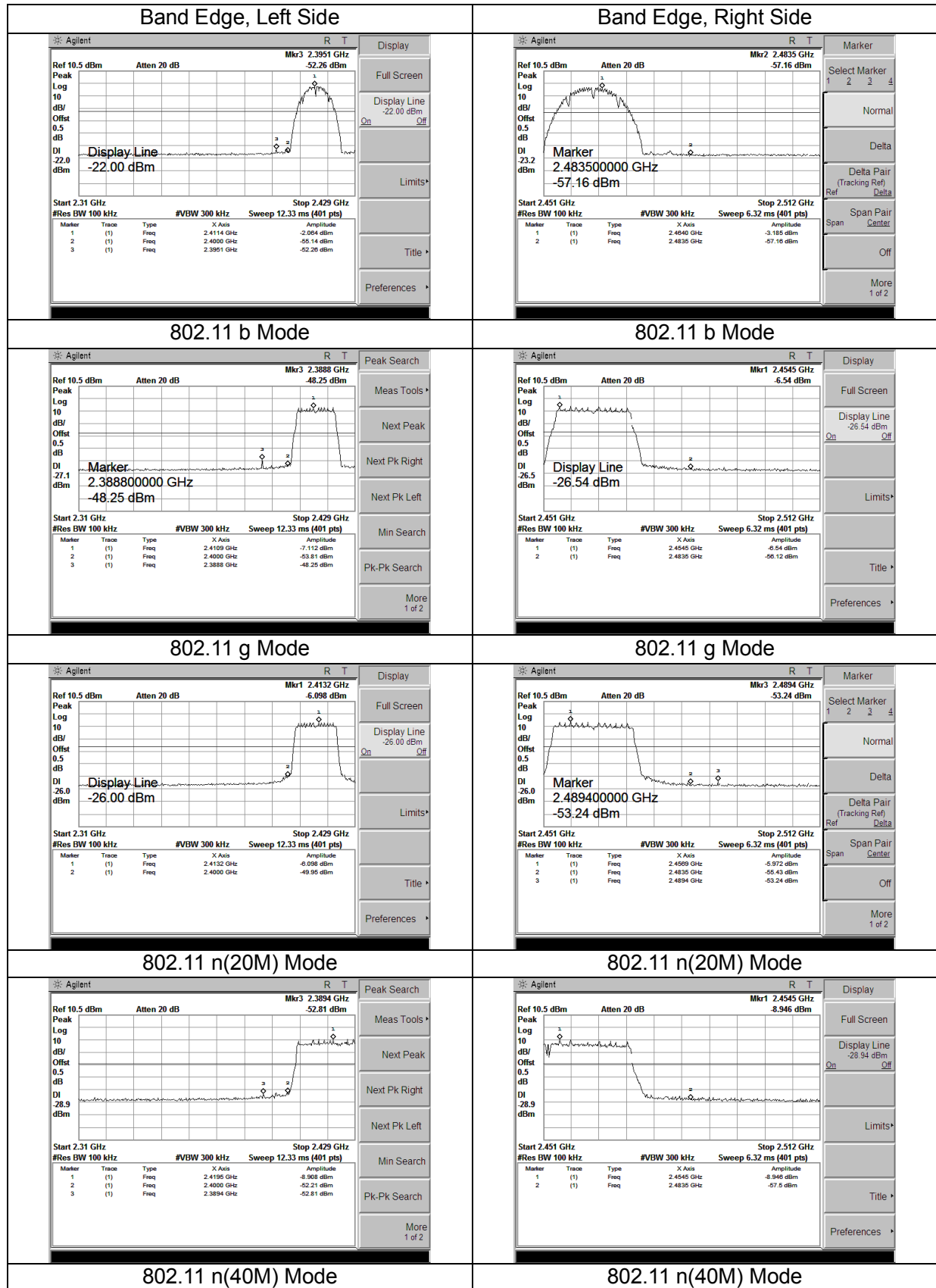
5.8.3 Test Result

Pass

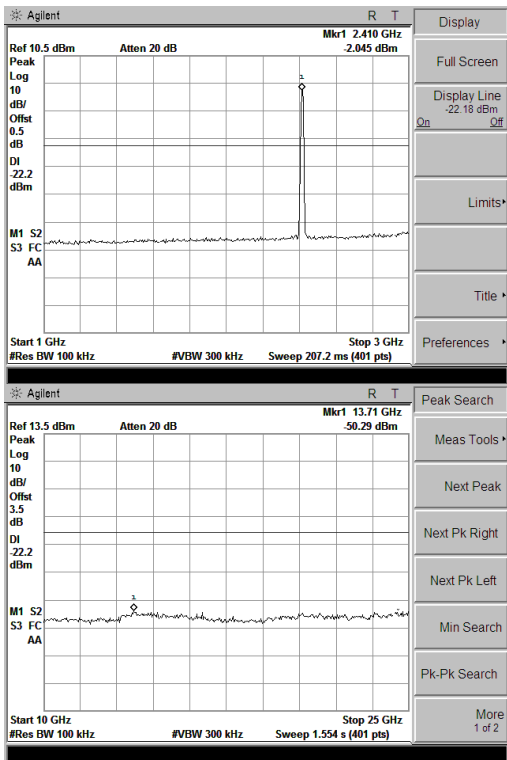
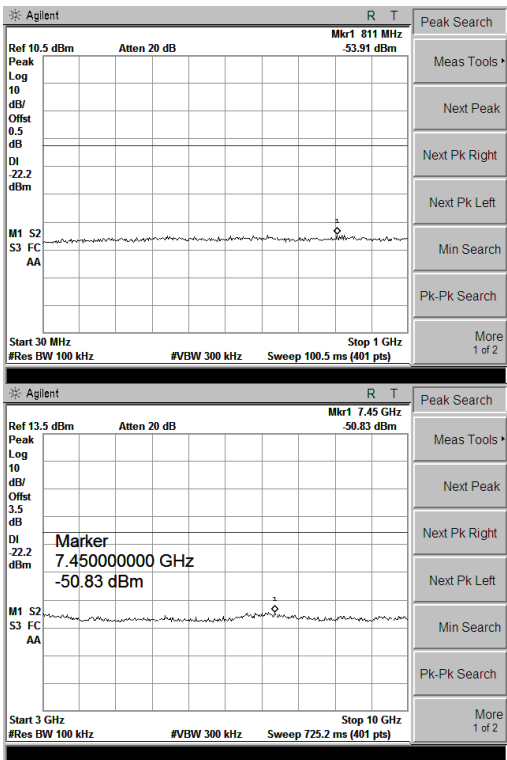
Remark:

During the Conducted Spurious Emissions test, pre-scan the 802.11b, 802.11g, 802.11n(20/40)modulation, and found the 802.11b modulation which it is worse case.

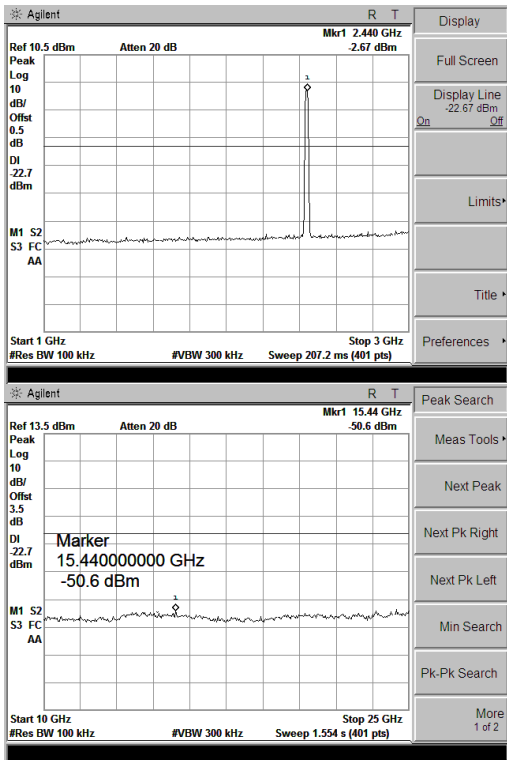
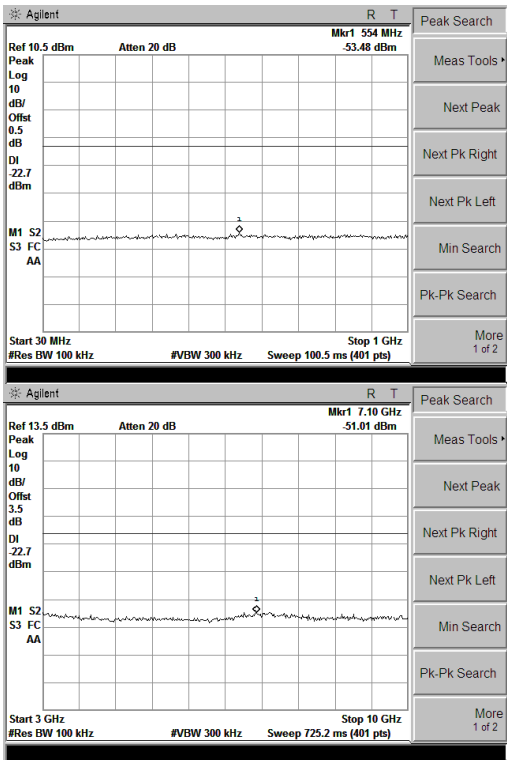
Test Item:	Band Edge	Temperature :	23°C
Test Engineer:	Kang	Relative Humidity :	65%



Conducted Spurious Emissions

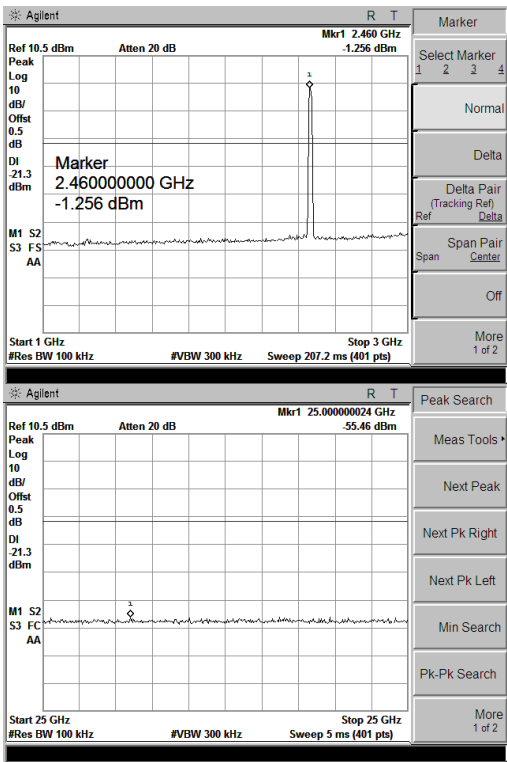
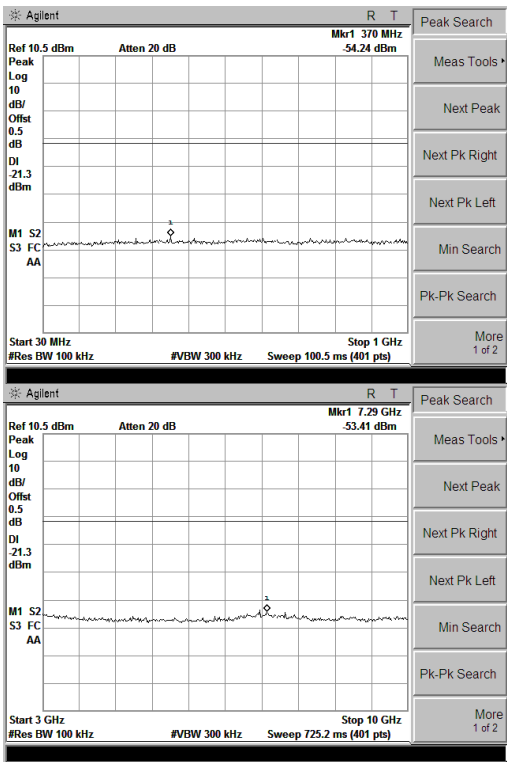


802.11b Mode, Ch1



802.11b Mode, Ch6

Conducted Spurious Emissions



802.11b Mode, Ch11

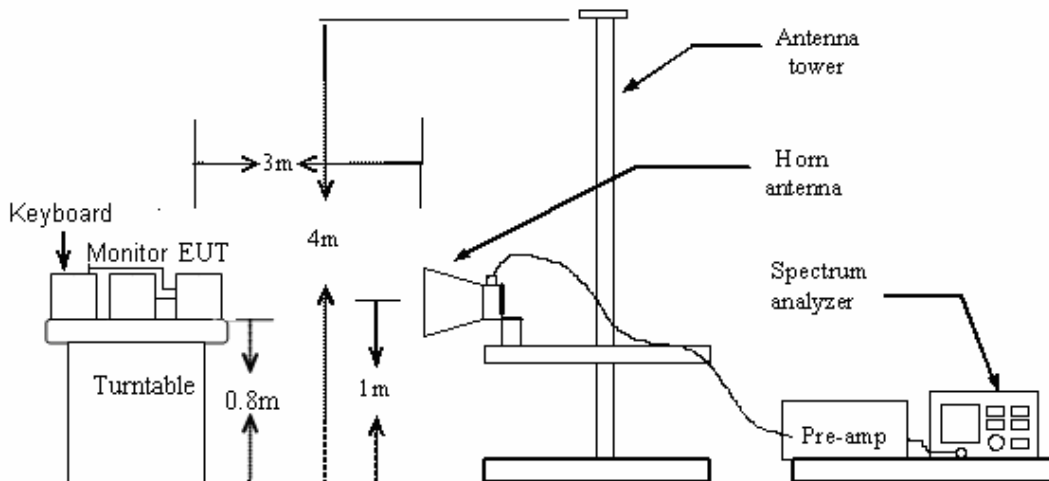
5.9 Restricted Frequency Bands

5.9.1 Test Requirement

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. 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)).

5.9.2 Test Configuration

Test Setup:



5.9.3 Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.

5.9.4 Test Result

Pass

Note: All test modes are performed, only the worst case is recorded in this report.

Please refer the following plots.



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

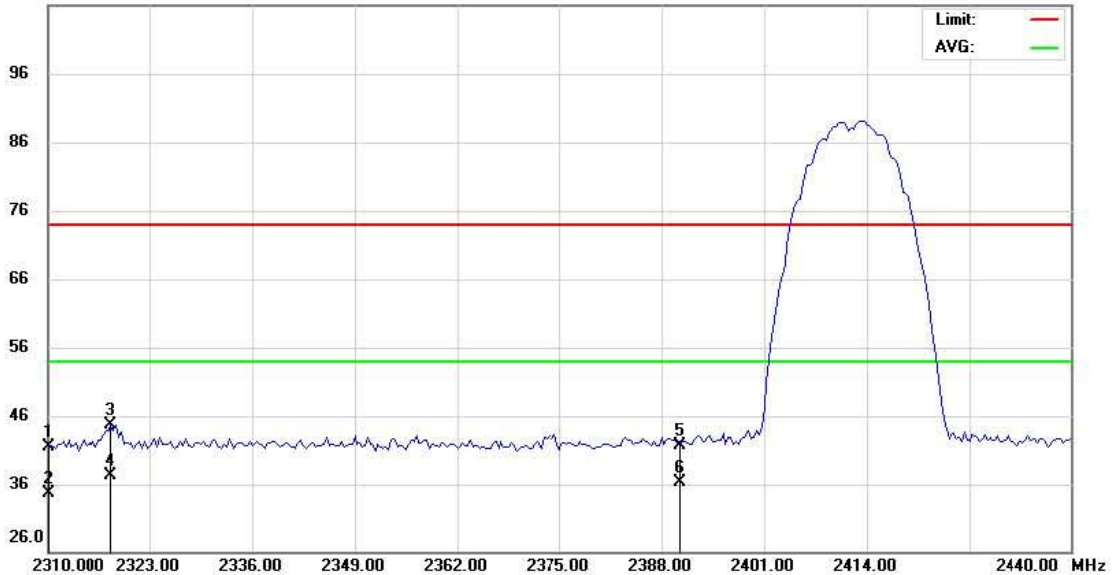
File: PJGC002

Data: #62

Date: 2015-3-1

Time: 14:25:29

106.0 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH1

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	49.98	-8.43	41.55	74.00	-32.45	peak		
2		2310.000	43.12	-8.43	34.69	54.00	-19.31	AVG		
3		2318.125	53.06	-8.43	44.63	74.00	-29.37	peak		
4	*	2318.125	45.76	-8.43	37.33	54.00	-16.67	AVG		
5		2390.000	50.04	-8.43	41.61	74.00	-32.39	peak		
6		2390.000	44.68	-8.43	36.25	54.00	-17.75	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

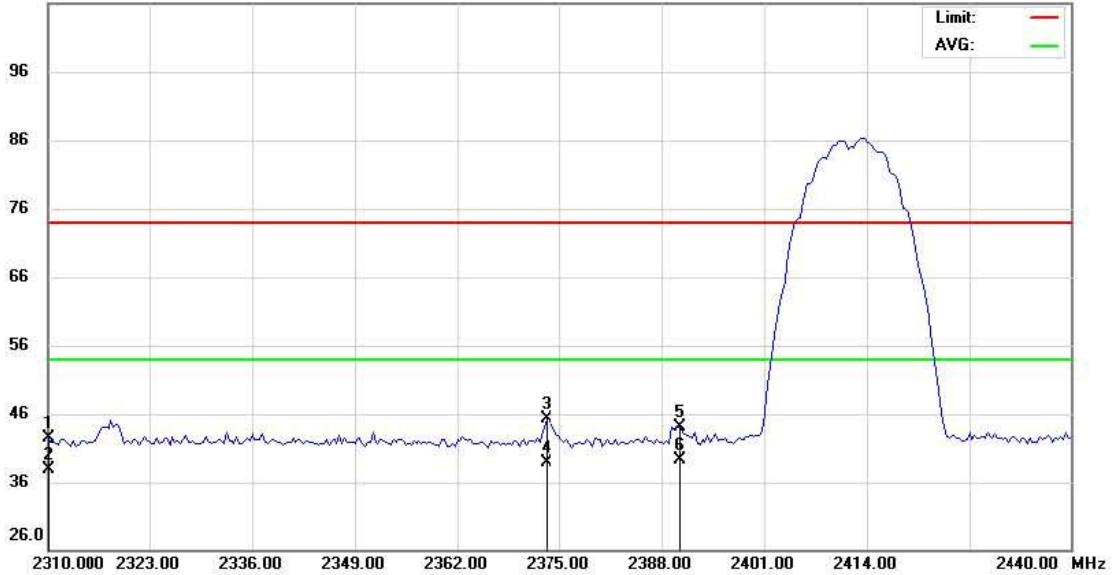
File: PJGC002

Data: #63

Date: 2015-3-1

Time: 14:36:09

106.0 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH1

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2310.000	51.03	-8.43	42.60	74.00	-31.40	peak		
2		2310.000	46.32	-8.43	37.89	54.00	-16.11	AVG		
3		2373.375	53.77	-8.43	45.34	74.00	-28.66	peak		
4		2373.375	47.25	-8.43	38.82	54.00	-15.18	AVG		
5		2390.000	52.58	-8.43	44.15	74.00	-29.85	peak		
6	*	2390.000	47.81	-8.43	39.38	54.00	-14.62	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #64

Date: 2015-3-1

Time: 14:47:43

106.0 dBuV/m



Site site #1

Polarization: **Horizontal**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH11

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	50.22	-8.29	41.93	74.00	-32.07	peak		
2		2483.500	45.13	-8.29	36.84	54.00	-17.16	AVG		
3		2486.625	53.08	-8.29	44.79	74.00	-29.21	peak		
4	*	2486.625	48.02	-8.29	39.73	54.00	-14.27	AVG		
5		2500.000	49.43	-8.26	41.17	74.00	-32.83	peak		
6		2500.000	42.97	-8.26	34.71	54.00	-19.29	AVG		

*:Maximum data x:Over limit l:over margin

Engineer Signature: Kang



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong, China
Tel: 0755-86026850 Fax: 0755-26013350

Radiated Emission Measurement

File: PJGC002

Data: #65

Date: 2015-3-1

Time: 14:59:04

106.0 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 24

Limit: FCC RF LIMIT

Power: DC 5.0V by Adapter

Humidity: 54 %

EUT: Playjam Stick

Distance: 3m

M/N: PJGC002

Mode: 802.11b-CH11

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		2483.500	50.46	-8.29	42.17	74.00	-31.83	peak		
2		2483.500	45.10	-8.29	36.81	54.00	-17.19	AVG		
3		2488.375	51.90	-8.28	43.62	74.00	-30.38	peak		
4	*	2488.375	46.88	-8.28	38.60	54.00	-15.40	AVG		
5		2500.000	50.37	-8.26	42.11	74.00	-31.89	peak		
6		2500.000	45.34	-8.26	37.08	54.00	-16.92	AVG		

*:Maximum data x:Over limit !:over margin

Engineer Signature: Kang

End of Report