



FCC TEST REPORT

Test report
On Behalf of
Home Strong Video Technology Co.,Ltd
For
Media Player
Model No.: HS8, HS9, HS10, HS11, HS12, HS13

FCC ID: 2AJLV-HS8

Prepared for: Home Strong Video Technology Co.,Ltd

Room206,A15 Building,Food Group industrial park,Longhua New District,

Shenzhen

Prepared By: Shenzhen HUAK 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: August. 18, 2016 ~ August. 23, 2016

Date of Report: August. 24, 2016
Report Number: HK1600817020-E



# **TEST RESULT CERTIFICATION**

Applicant's name	Home Str	ong Video Technology Co.,Ltd
Address:	Room206 District, S	S,A15 Building,Food Group industrial park,Longhua New Shenzhen
Manufacture's Name:	Home Str	rong Video Technology Co.,Ltd
Address:	Room206 District, S	6,A15 Building,Food Group industrial park,Longhua New Shenzhen
Product description		
Trade Mark:	MAX TV	
Product name:	Media Pla	ayer
Model and/or type reference :	HS8, HS9	9, HS10, HS11, HS12, HS13
Standards:	FCC Rule ANSI C63	es and Regulations Part 15 Subpart C Section 15.247 3.10: 2013
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Date (s) of performance of tests		August.18, 2016 ~ August. 23, 2016
Date of Issue		August. 24, 2016
Test Result	:	Pass
Testing Engine	∍er :	(Eric Xie)
Technical Man	ager :	Dola Qin  (Dora Qin)
Authorized Sig	gnatory :	(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 POWEReak	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

### 1.2 TEST FACILITY

Test Firm : Dongguan Dongdian Testing Service Co., Ltd

Certificated by FCC, Registration No.: 270092

Address No.17 Zongbu road 2, Songshan Lake Sci&Tech Park, DongGuan

City, Guangdong province,523808 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	Media Player
Model Name	HS8
Serial Model	HS9, HS10, HS11, HS12, HS13
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: HS8.
FCC ID	2AJLV-HS8
Antenna Type	Integral Antenna
Antenna Gain	1 dBi
BT Operation frequency	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz
Number of Channels	802.11b/g/n H20: 11CH 802.11n H40: 7CH
Modulation Type	CCK/OFDM/DBPSK/DAPSK
Power Source	AC Adapter mode:JY-05150
Power Rating	DC 5V for adapter with AC 120V/60Hz





# 2.1.1 Carrier Frequency of Channels

Channel List for 802.11b/g/n(20MHz)								
Channel	Channel Frequency (MHz) Channel Frequency (MHz) Channel				Frequency (MHz)	Channel	Frequency (MHz)	
01	2412	04	2427	07	2442	10	2457	
02	2417	05	2432	80	2447	11	2462	
03	2422	06	2437	09	2452			

Channel List for 802.11n(40MHz)								
Channel Frequency (MHz) Channel Frequency (MHz)			Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
03	2422	06	2437	09	2452			
04	2427	07	2442					
05	2432	80	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)

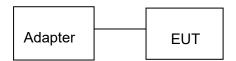
Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

### 2.2 DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and below 1GHz Radiation testing:



Operation of EUT during Above1GHz Radiation testing:





2.3 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
2.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 19, 2016	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 19, 2016	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. 19, 2016	1 Year
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Feb. 19, 2016	1 Year
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Feb. 19, 2016	1 Year
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
10.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 19, 2016	1 Year
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 19, 2016	1 Year
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Feb. 19, 2016	1 Year
15.	LISN	SchwarzBeck	NSLK 8126	8126377	Feb. 19, 2016	1 Year
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Feb. 19, 2016	1 Year
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Power Meter	R&S	NRVD	SEL0069	Feb. 19, 2016	1 Year
19.	Power Sensor	R&S	URV5-Z2	SEL0071	Feb. 19, 2016	1 Year
20.	Power Sensor	R&S	URV5-Z2	SEL0072	Feb. 19, 2016	1 Year
21.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
22.	Log-periodic Antenna	Amplifier Reasearch	AHS880	SEL0073	N/A	N/A
23.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	N/A	N/A
24.	High Gain Horn Antenna(0.8-5GHz)	Amplifier Reasearch	AT4002A	SEL0075	N/A	N/A
25.	Spectrum analyzer	Agilent	N9020A	MY499110 048	Feb. 19, 2016	1 Year
26.	Spectrum analyzer	Agilent	E4407B	MY461843 26	Feb. 19, 2016	1 Year



### CONDUCTED EMISSIONS TEST

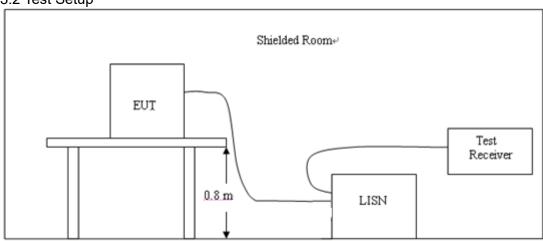
### 3.1 Conducted Power Line Emission Limit

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

Eroguanav	M	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLAS	SS A	CLASS B					
(111112)	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				

<sup>\*</sup> 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.

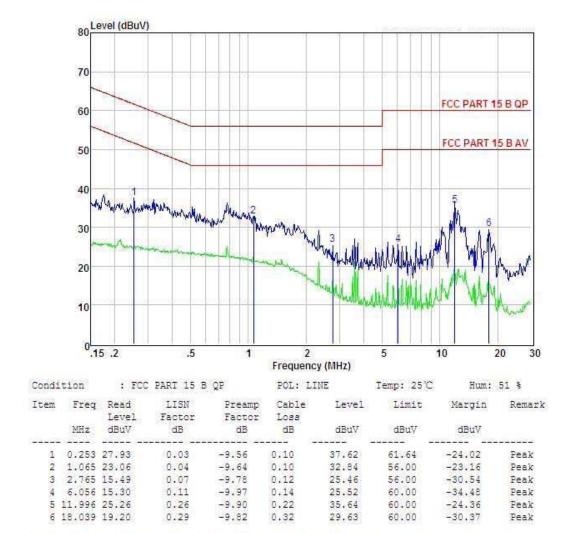
### 3.4 Test Result

#### **PASS**

All the test modes completed for test.



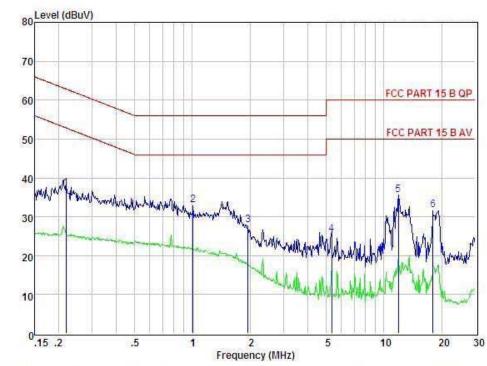




Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss







Condi	Ltion	: FCC	PART 15 B	QP	POL: N	EUTRAL	Temp: 25°C	Hum:	51 %
Item	Freq	Read Level	LISN Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.219	27.64	0.03	-9.52	0.10	37.29	62.88	-25.59	Peak
2	1.010	23.34	0.04	-9.63	0.10	33.11	56.00	-22.89	Peak
3	1.949	18.05	0.06	-9.71	0.10	27.92	56.00	-28.08	Peak
4	5,333	15.30	0.10	-9.94	0.13	25.47	60.00	-34.53	Peak
5	11.933	25.30	0.26	-9.90	0.22	35.68	60.00	-24.32	Peak
6	18.039	21.38	0.29	-9.82	0.32	31.81	60.00	-28.19	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



### **4 RADIATED EMISSION TEST**

### 4.1 Radiation Limit

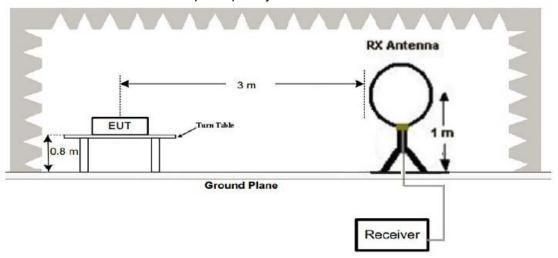
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

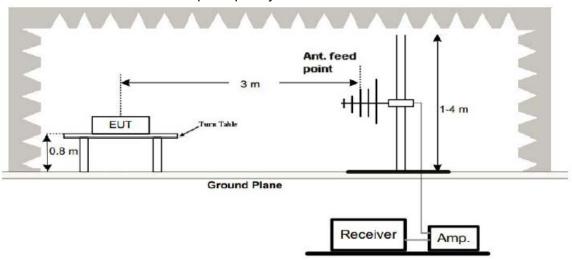
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

# 4.2 Test Setup

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

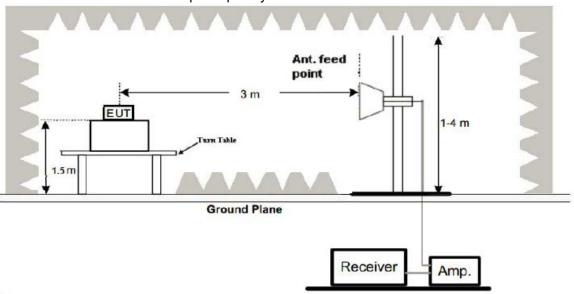


### (2) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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.

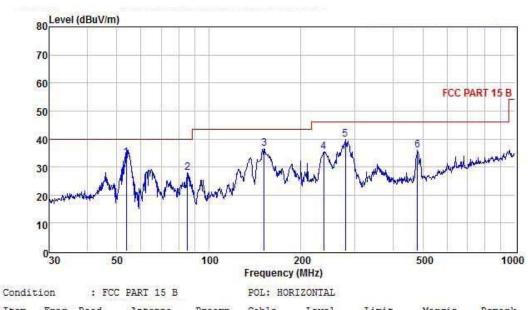
### 4.4 Test Result

#### **PASS**

All the test modes completed for test. The worst case of Radiated Emission; the test data of this mode was reported.



Below 1GHz Test Results: Antenna polarity: H

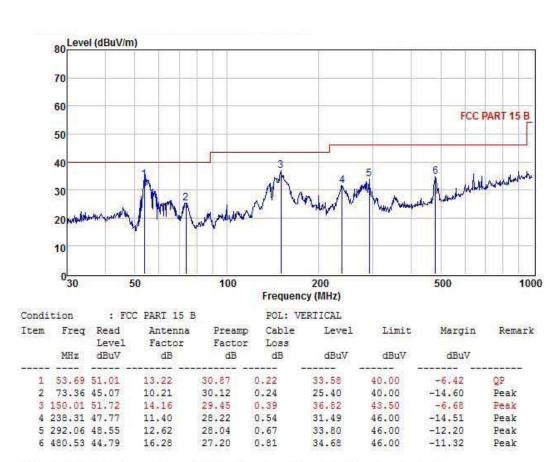


Condi	Ltion	: FC	C PART 15 E	3	POL: H	HORIZONTAL			
Item	Freq	Read Level	Antenna Factor	Preamp Factor		Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	53.69	50.87	13.22	30.87	0.22	33.44	40.00	-6.56	QP
2	85.00	48.35	9.38	30.09	0.29	27.93	40.00	-12.07	Peak
3	151.60	51.33	14.16	29.41	0.42	36.50	43.50	-7.00	Peak
4	237.48	51.82	11.40	28.22	0.50	35.50	46.00	-10.50	Peak
5	279.04	55.06	12.37	28.09	0.56	39.90	46.00	-6.10	Peak
6	480.53	46.14	16.28	27.20	0.81	36.03	46.00	-9.97	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



Antenna polarity: V



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

#### 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	61.41	-3.64	57.77	74	-16.23	peak
4824	46.16	-3.64	42.52	54	-11.48	AVG
7236	55.53	-0.95	54.58	74	-19.42	peak
7236	40.36	-0.95	39.41	54	-14.59	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	60.32	-3.64	56.68	74	-17.32	peak
4824	44.81	-3.64	41.17	54	-12.83	AVG
7236	53.92	-0.95	52.97	74	-21.03	peak
7236	38.07	-0.95	37.12	54	-16.88	AVG



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	60.08	-3.51	56.57	74	-17.43	peak
4874	44.87	-3.51	41.36	54	-12.64	AVG
7311	51.00	-0.82	50.18	74	-23.82	peak
7311	36.18	-0.82	35.36	54	-18.64	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	58.47	-3.51	54.96	74	-19.04	peak
4874	42.90	-3.51	39.39	54	-14.61	AVG
7311	50.45	-0.82	49.63	74	-24.37	peak
7311	35.86	-0.82	35.04	54	-18.96	AVG





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	60.21	-3.43	56.78	74	-17.22	peak
4924	44.70	-3.43	41.27	54	-12.73	AVG
7386	52.17	-0.75	51.42	74	-22.58	peak
7386	37.91	-0.75	37.16	54	-16.84	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	59.01	-3.43	55.58	74	-18.42	peak
4924	43.74	-3.43	40.31	54	-13.69	AVG
7386	49.23	-0.75	48.48	74	-25.52	peak
7386	35.27	-0.75	34.52	54	-19.48	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	60.15	-3.64	56.51	74	-17.49	peak
4824	44.56	-3.64	40.92	54	-13.08	AVG
7236	49.77	-0.95	48.82	74	-25.18	peak
7236	35.23	-0.95	34.28	54	-19.72	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	59.11	-3.64	55.47	74	-18.53	peak
4824	44.48	-3.64	40.84	54	-13.16	AVG
7236	47.74	-0.95	46.79	74	-27.21	peak
7236	32.01	-0.95	31.06	54	-22.94	AVG



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	58.92	-3.51	55.41	74	-18.59	peak
4874	43.76	-3.51	40.25	54	-13.75	AVG
7311	52.34	-0.82	51.52	74	-22.48	peak
7311	37.69	-0.82	36.87	54	-17.13	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)	
4874	58.09	-3.51	54.58	74	-19.42	peak
4874	43.43	-3.51	39.92	54	-14.08	AVG
7311	50.86	-0.82	50.04	74	-23.96	peak
7311	36.26	-0.82	35.44	54	-18.56	AVG





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	60.37	-3.43	56.94	74	-17.06	peak
4924	44.78	-3.43	41.35	54	-12.65	AVG
7386	51.50	-0.75	50.75	74	-23.25	peak
7386	35.34	-0.75	34.59	54	-19.41	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	58.08	-3.43	54.65	74	-19.35	peak
4924	42.54	-3.43	39.11	54	-14.89	AVG
7386	52.29	-0.75	51.54	74	-22.46	peak
7386	35.96	-0.75	35.21	54	-18.79	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	59.63	-3.64	55.99	74	-18.01	peak
4824	44.20	-3.64	40.56	54	-13.44	AVG
7236	51.70	-0.95	50.75	74	-23.25	peak
7236	36.43	-0.95	35.48	54	-18.52	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	57.59	-3.64	53.95	74	-20.05	peak
4824	41.91	-3.64	38.27	54	-15.73	AVG
7236	50.90	-0.95	49.95	74	-24.05	peak
7236	35.19	-0.95	34.24	54	-19.76	AVG



MID CH6 (802.11n/H20 Mode)/2437 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874	58.24	-3.51	54.73	74	-19.27	peak
4874	44.07	-3.51	40.56	54	-13.44	AVG
7311	51.24	-0.82	50.42	74	-23.58	peak
7311	36.65	-0.82	35.83	54	-18.17	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	57.32	-3.51	53.81	74	-20.19	peak
4874	42.10	-3.51	38.59	54	-15.41	AVG
7311	50.40	-0.82	49.58	74	-24.42	peak
7311	35.24	-0.82	34.42	54	-19.58	AVG





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	59.08	-3.43	55.65	74	-18.35	peak
4924	44.66	-3.43	41.23	54	-12.77	AVG
7386	52.11	-0.75	51.36	74	-22.64	peak
7386	38.04	-0.75	37.29	54	-16.71	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)	
4924	57.81	-3.43	54.38	74	-19.62	peak
4924	43.88	-3.43	40.45	54	-13.55	AVG
7386	51.91	-0.75	51.16	74	-22.84	peak
7386	38.96	-0.75	38.21	54	-15.79	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 CH3 (802.11n/H40 Mode)/2422 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4924	58.57	-3.63	54.94	74	-19.06	peak
4924	42.49	-3.63	38.86	54	-15.14	AVG
7386	51.65	-0.94	50.71	74	-23.29	peak
7386	36.51	-0.94	35.57	54	-18.43	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	56.35	-3.63	52.72	74	-21.28	peak
4924	41.14	-3.63	37.51	54	-16.49	AVG
7386	49.57	-0.94	48.63	74	-25.37	peak
7386	34.80	-0.94	33.86	54	-20.14	AVG



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	58.94	-3.51	55.43	74	-18.57	peak
4874	43.90	-3.51	40.39	54	-13.61	AVG
7311	52.37	-0.82	51.55	74	-22.45	peak
7311	37.89	-0.82	37.07	54	-16.93	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	57.37	-3.51	53.86	74	-20.14	peak
4874	42.15	-3.51	38.64	54	-15.36	AVG
7311	51.07	-0.82	50.25	74	-23.75	peak
7311	36.00	-0.82	35.18	54	-18.82	AVG





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	59.28	-3.43	55.85	74	-18.15	peak
4904	43.06	-3.43	39.63	54	-14.37	AVG
7356	52.38	-0.75	51.63	74	-22.37	peak
7356	37.21	-0.75	36.46	54	-17.54	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	58.27	-3.43	54.84	74	-19.16	peak
4904	43.16	-3.43	39.73	54	-14.27	AVG
7356	51.57	-0.75	50.82	74	-23.18	peak
7356	37.11	-0.75	36.36	54	-17.64	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

FCC PART 15.247 Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

#### 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:

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2390	52.49	-5.81	46.68	74	-27.32	peak
2390	1	-5.81	1	54	1	AVG
2400	60.76	-5.84	54.92	74	-19.08	peak
2400	46.17	-5.84	40.33	54	-13.67	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)	
2390	51.46	-5.81	45.65	74	-28.35	peak
2390	1	-5.81	1	54	1	AVG
2400	57.36	-5.84	51.52	74	-22.48	peak
2400	1	-5.84	1	54	1	AVG



Operation Mode: TX CH High (2462MHz) Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	51.49	-5.65	45.84	74	-28.16	peak
2483.5	1	-5.65	1	54	1	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)	
2483.5	50.92	-5.65	45.27	74	-28.73	peak
2483.5	1	-5.65	/	54	1	AVG

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Ho	rizo	ontal	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2390	51.66	-5.81	45.85	74	-28.15	peak
2390	1	-5.81	1	54	1	AVG
2400	61.38	-5.84	55.54	74	-18.46	peak
2400	46.57	-5.84	40.73	54	-13.27	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)	
2390	52.27	-5.81	46.46	74	-27.54	peak
2390	1	-5.81	1	54	1	AVG
2400	60.16	-5.84	54.32	74	-19.68	peak
2400	45.42	-5.84	39.58	54	-14.42	AVG



Operation Mode: TX CH High (2462MHz)
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	50.72	-5.65	45.07	74	-28.93	peak
2483.5	/	-5.65	1	54	/	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)	
2483.5	52.10	-5.65	46.45	74	-27.55	peak
2483.5	/	-5.65	1	54	1	AVG

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

Remark: All the other emissions not reported were too low to read and deemed to comply with

FCC limit.



Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz) Horizontal

Frequency	Meter Reading	Factor	Emission	Limits	Margin	D T	
(MHz)	(dBµV)	(dB)	Level (dBµV/m)	(dBµV/m)	(dB)	Detector Type	
2390	52.38	-5.81	46.57	74	-27.43	peak	
2390	1	-5.81	1	54	1	AVG	
2400	57.59	-5.84	51.75	74	-22.25	peak	
2400	/	-5 84	/	54	/	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)	
2390	51.33	-5.81	45.52	74	-28.48	peak
2390	1	-5.81	1	54	1	AVG
2400	56.47	-5.84	50.63	74	-23.37	peak
2400	1	-5.84	1	54	1	AVG



Operation Mode: TX CH High (2462MHz) Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	51.08	-5.65	45.43	74	-28.57	peak
2483.5	/	-5.65	1	54	1	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)	
2483.5	50.69	-5.65	45.04	74	-28.96	peak
2483.5	/	-5.65	1	54	1	AVG

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz) Horizontal

			1	T	T	1
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2390	51.38	-5.81	45.57	74	-28.43	peak
2390	1	-5.81	1	54	1	AVG
2400	56.22	-5.84	50.38	74	-23.62	peak
2400	1	-5 84	,	54	,	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)	
2390	50.75	-5.81	44.94	74	-29.06	peak
2390	1	-5.81	1	54	1	AVG
2400	55.05	-5.84	49.21	74	-24.79	peak
2400	1	-5.84	1	54	1	AVG



Operation Mode: TX CH High (2452MHz) Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	51.61	-5.65	45.96	74	-28.04	peak
2483.5	1	-5.65	1	54	1	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)	
2483.5	50.33	-5.65	44.68	74	-29.32	peak
2483.5	/	-5.65	1	54	1	AVG

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.





# 6 OCCUPIED BANDWIDTH MEASUREMENT

### 6.1 Test Limit

TOST EITHE							
	FCC Part15 (15.247) , Subpart C						
Section	Test Item Limit		Frequency Range (MHz)	Result			
15.247(a)(2)	Bandwidth	>= 500KHz (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	10.11	>=500KHz	PASS
2437 MHz	10.07	>=500KHz	PASS
2462 MHz	10.08	>=500KHz	PASS

CH: 2412MHz







CH: 2437MHz



CH: 2462MHz





TX 802.11g Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.38	>=500KHz	PASS
2437 MHz	16.40	>=500KHz	PASS
2462 MHz	16.38	>=500KHz	PASS

CH: 2412MHz

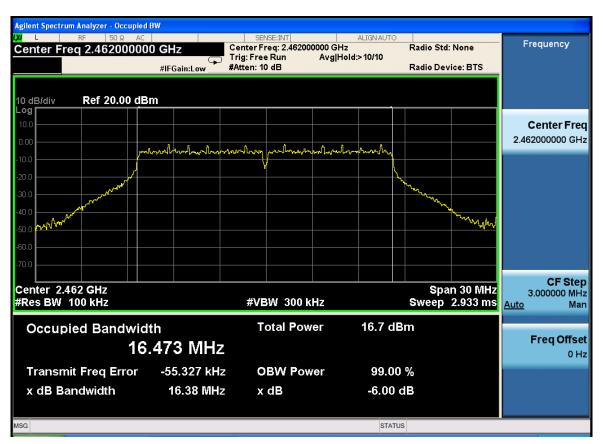




CH: 2437MHz



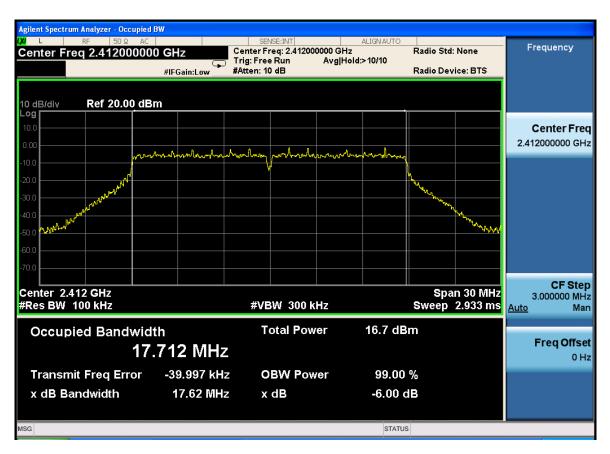
CH: 2462MHz





TX 802.11n/HT20 Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.62	>=500KHz	PASS
2437 MHz	17.60	>=500KHz	PASS
2462 MHz	17.65	>=500KHz	PASS

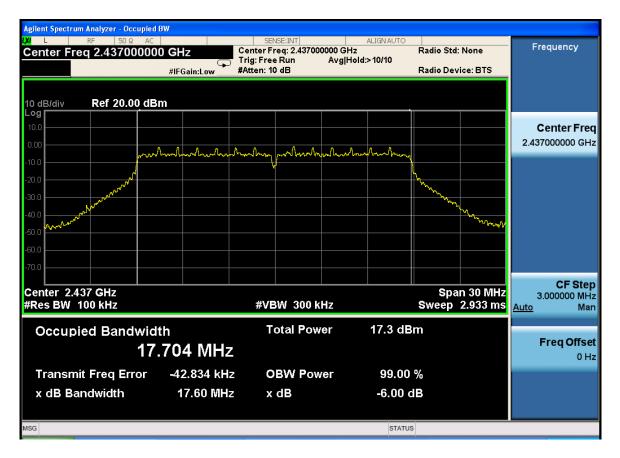
CH: 2412MHz



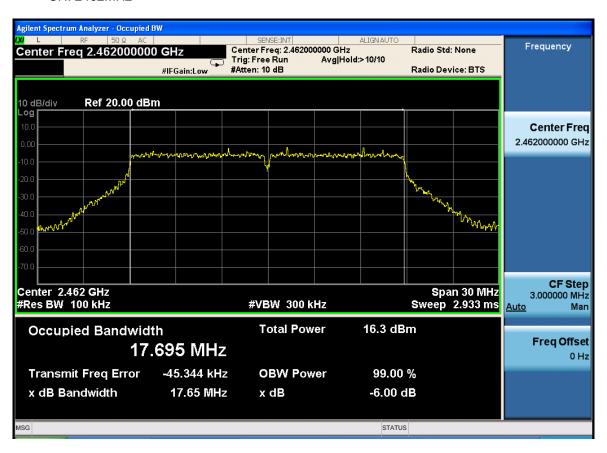




CH: 2437MHz



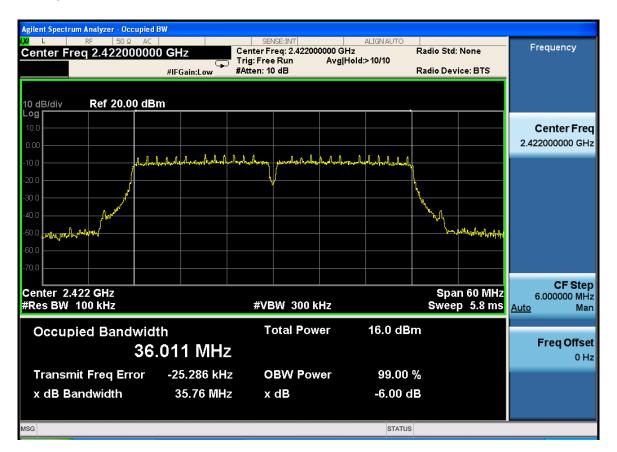
#### CH: 2462MHz





TX 802.11n/HT40 Mode			
Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.76	>=500KHz	PASS
2437 MHz	35.86	>=500KHz	PASS
2452 MHz	35.64	>=500KHz	PASS

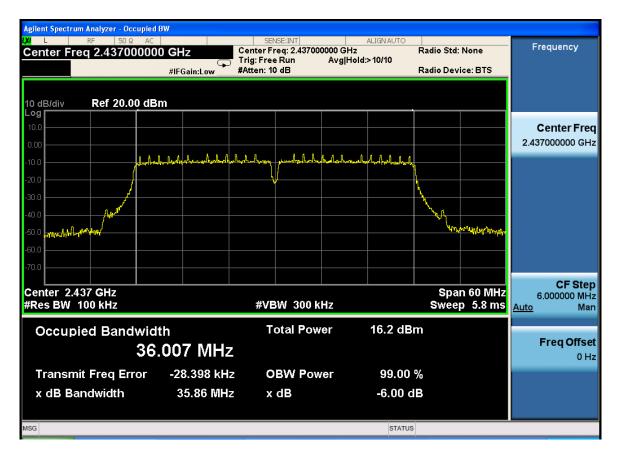
CH: 2422MHz



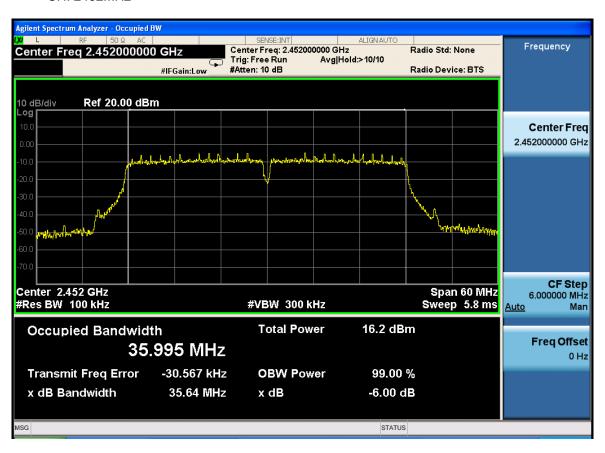




#### CH: 2437MHz



#### CH: 2452MHz







### 7 POWER SPECTRAL DENSITY TEST

### 7.1 Test Limit

٠					
	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.



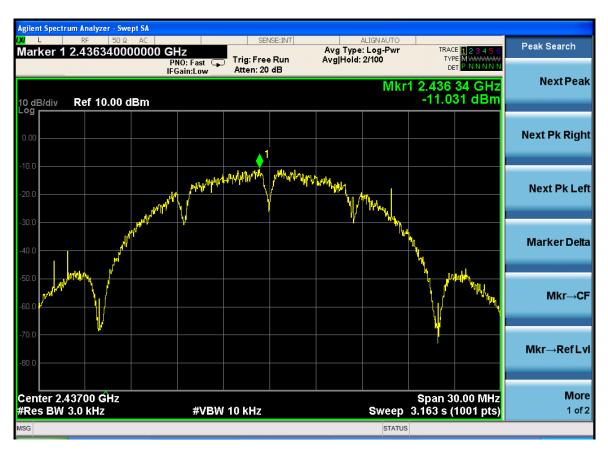
	TX 802.11b Mode				
Frequency	Power Density (dBm)	Limit (dBm)	Result		
2412 MHz	-9.076	8	PASS		
2437 MHz	-11.031	8	PASS		
2462 MHz	-10.418	8	PASS		

CH: 2412MHz





CH: 2437MHz



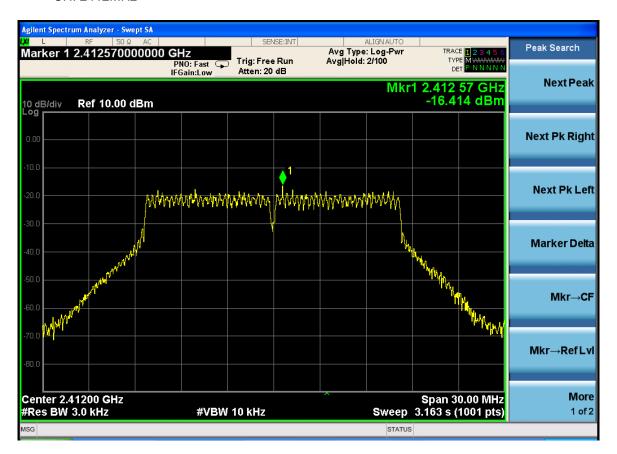
CH: 2462MHz





TX 802.11g Mode				
Frequency	Power Density (dBm)	Limit (dBm)	Result	
2412 MHz	-16.414	8	PASS	
2437 MHz	-17.541	8	PASS	
2462 MHz	-16.586	8	PASS	

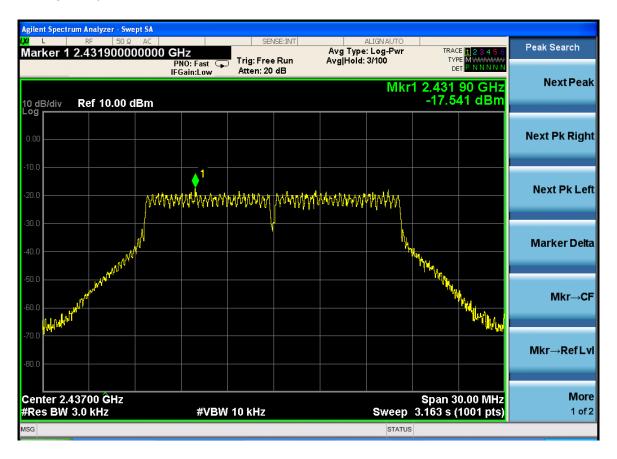
CH: 2412MHz



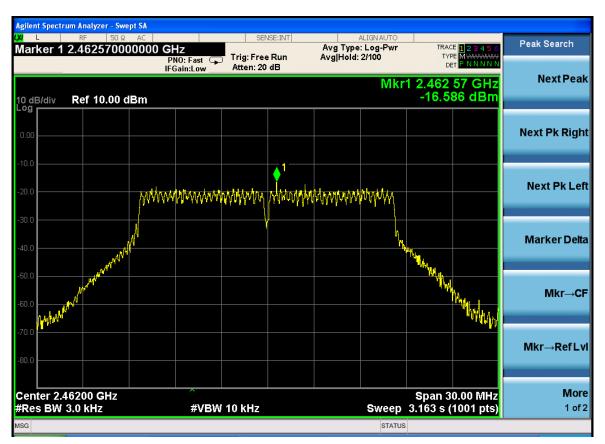




CH: 2437MHz



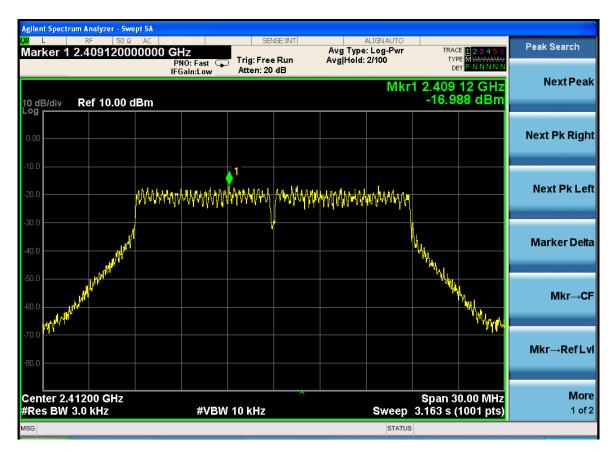
CH: 2462MHz





TX 802.11n/HT20 Mode			
Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-16.988	8	PASS
2437 MHz	-16.464	8	PASS
2462 MHz	-16.726	8	PASS

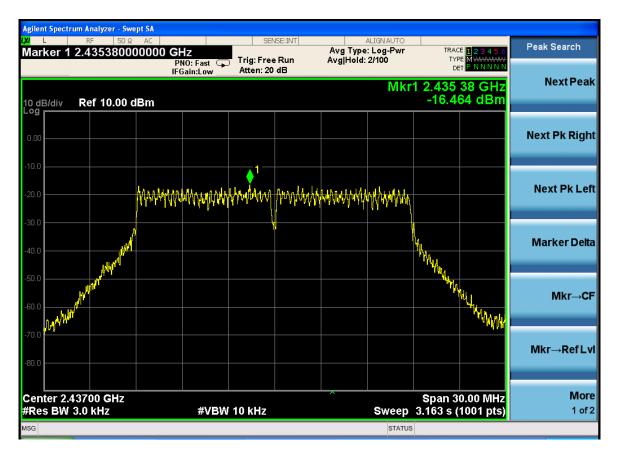
CH: 2412MHz



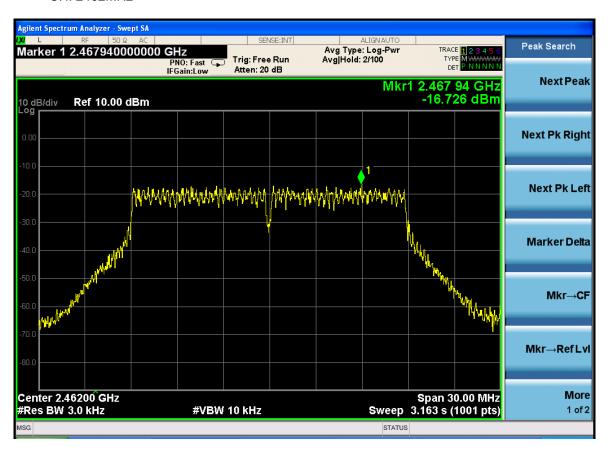




CH: 2437MHz



CH: 2462MHz





TX 802.11n/HT40 Mode				
Frequency	Power Density (dBm)	Limit (dBm)	Result	
2422 MHz	-19.336	8	PASS	
2437 MHz	-20.082	8	PASS	
2452 MHz	-24.482	8	PASS	

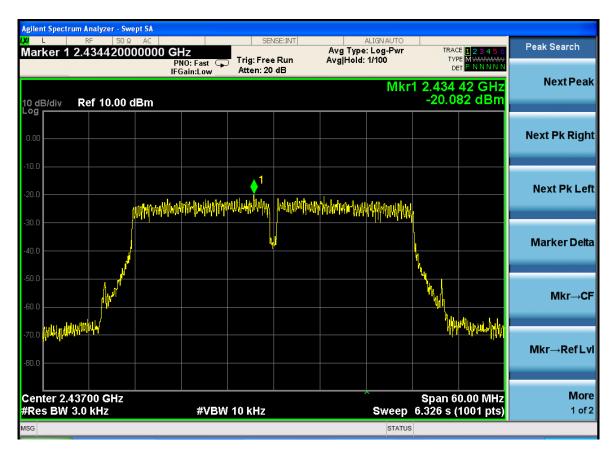
CH: 2422MHz







CH: 2437MHz



CH: 2452MHz





### **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

	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	14.89	30		
CH11	2462	14.67	30		
		TX 802.11g Mode			
CH01	2412	14.26	30		
CH06	2437	14.18	30		
CH11	2462	14.34	30		
		TX 802.11n20 Mode			
CH01	2412	14.16	30		
CH06	2437	14.11	30		
CH11	2462	14.06	30		
TX 802.11n40 Mode					
CH03	2422	12.79	30		
CH06	2437	12.68	30		
CH09	2452	12.71	30		



### 9 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.

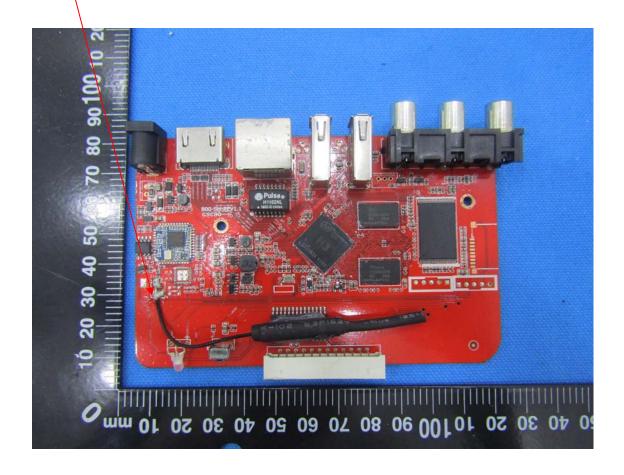
### Refer to statement below for compliance.

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 Integral Antenna, The directional gains of antenna used for transmitting is 1dBi.

### **ANTENNA**

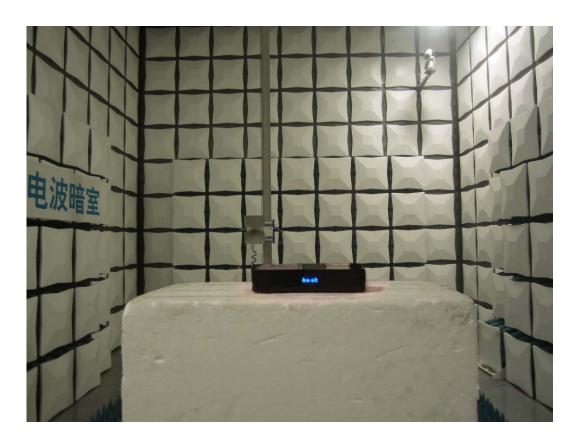




# 10 PHOTOGRAPH OF TEST

# 10.1 Radiated Emission







## 10.2 Conducted Emission

