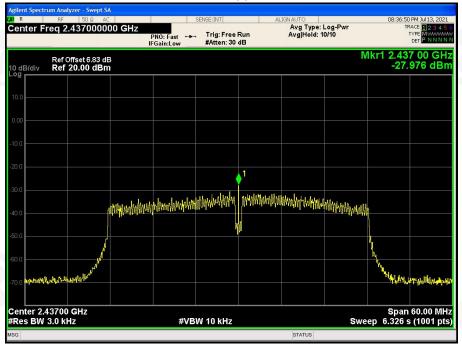
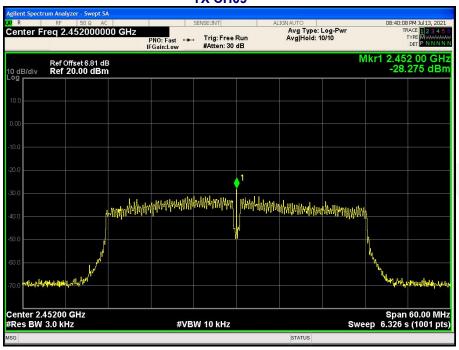


TX CH06



TX CH09



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7. CHANNEL BANDWIDTH& 99% OCCUPY BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

7.1 APPLIED PROCEDURES / LIMIT

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

7.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 xRBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. 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.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX b Mode		

	-6dB Occupy Bandwidth (MHz)					
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT 40)	Limit(KHz)	Result
Lowest	7.550	15.105	13.747	32.611		
Middle	8.381	15.008	14.834	33.736	>500	Pass
Highest	7.623	14.163	15.112	33.817		

Test CH 802.11b		99% Oc	Dogult		
		802.11g	802.11n(HT20)	802.11n(HT40)	Result
Lowest	12.620	16.347	17.525	35.936	
Middle	12.529	16.321	17.534	35.808	Pass
Highest	12.547	16.348	17.535	35.813	



Test plot as follows:

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802.11g

Lowest channel



802.11b



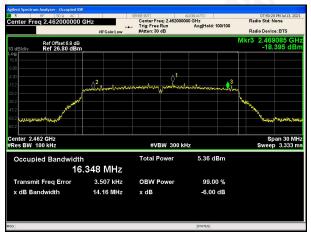
Middle channel





Highest channel





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802.11n20

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802.11n40

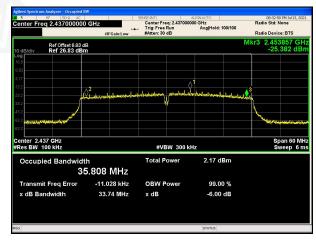
Lowest channel



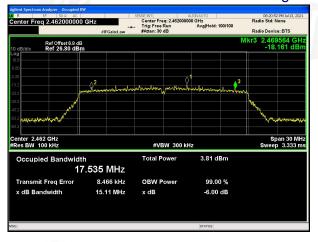


Middle channel





Highest channel





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8.PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

8.1 APPLIED PROCEDURES/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

- a. The EUT was directly connected to the Power meter
- 8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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Temperature :	26℃	Relative Humidity:	54%
Pressure :	101kPa	Test Voltage :	DC 12V

	Peak Output Power (dBm)					
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm)	Result
Lowest	9.102	8.372	8.520	7.734		
Middle	9.100	8.285	8.427	7.652	30.00	Pass
Highest	9.108	8.255	8.386	7.639		

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9. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

9.1 APPLICABLE STANDARD

in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz 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 in15.209(a).

9.2 TEST PROCEDURE

Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS

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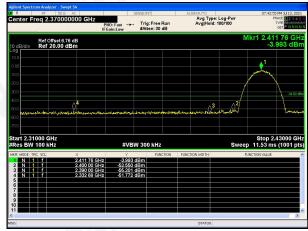




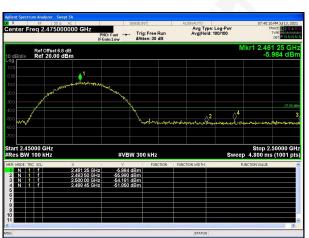
Test plot as follows:

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802.11b Test mode:



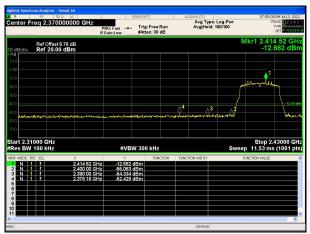
Lowest channel



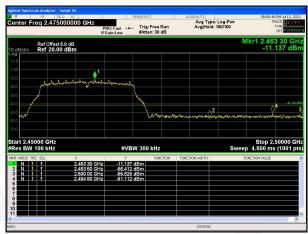
Highest channel

Test mode:

802.11g



Lowest channel



Highest channel

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Test mode:

802.11n(HT20)



Avg Type: Log-Pwr Avg|Hold: 100/100 Fast --- Trig: Free Run Ref Offset 6.8 dB Ref 20.00 dBm

Lowest channel

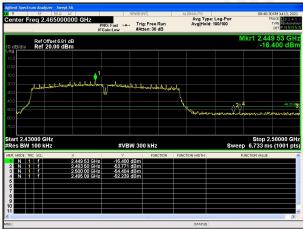
Highest channel

Test mode:

802.11n(HT40)



Lowest channel



Highest channel

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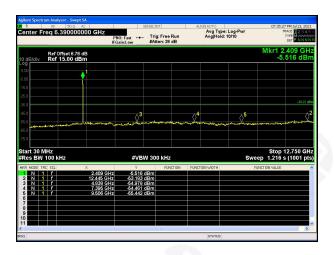




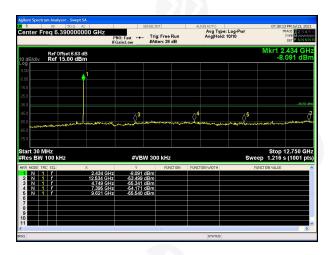
Test plot as follows:

802.11b

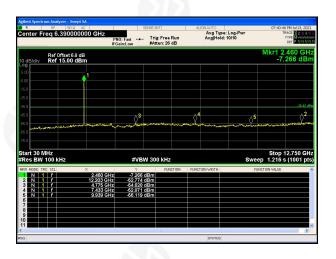
Lowest channel



Middle channel



Highest channel



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1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

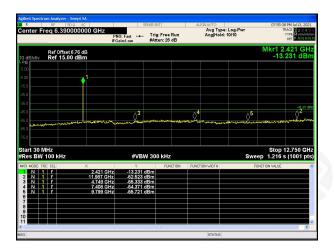
+86-755-2233 6688



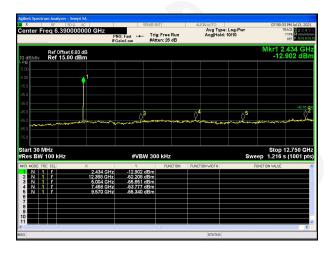


802.11g

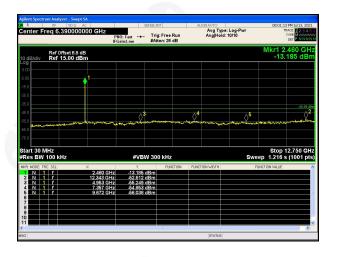
Lowest channel



Middle channel



Highest channel



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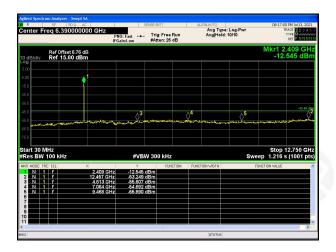




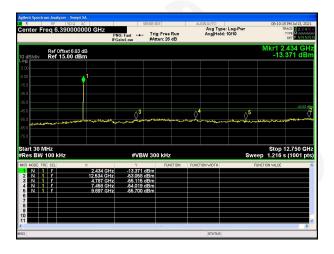


802.11n(HT20)

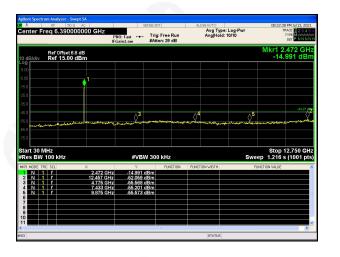
Lowest channel



Middle channel



Highest channel



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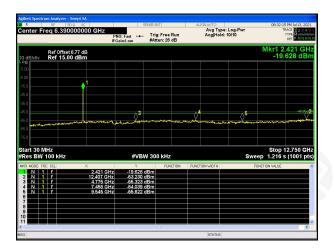
+86-755-2233 6688



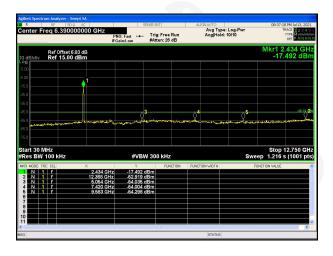


802.11n(HT40)

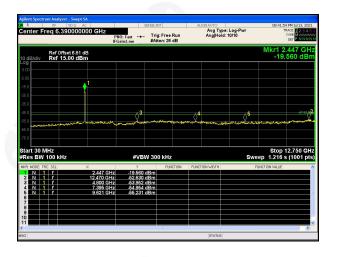
Lowest channel



Middle channel



Highest channel



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10. ANTENNA REQUIREMENT

FCC Part15 C Section 15.203 /247(c) Standard requirement:

15.203 requirement:

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, 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is PCB Antenna, the best case gain of the antenna is 0dBi, reference to the appendix II for details

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11. TEST SETUP PHOTO

Reference to the appendix I for details.

12. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

*** ** END OF REPORT ****

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