

TEST REPORT

FCC ID: 2ACJARLTP60XX

Product: Smartphone

Model No.: RLTP6067

Additional Model No.: RLTP60XX(XX can be changed from 00 to 99), HN-MPX6000, HN-MPX60XX(XX can be changed from 00 to 99)

Trade Mark: N/A

Report No.: TCT160817E015

Issued Date: Aug. 31, 2016

Issued for:

ShenZhen Harmony Technology Co., Ltd
Block 2, Jiayuan Industrial Zone, Heping Community high-tech Park, No 2
Fuyuan Road, Fuyong, Bao'an, Shenzhen, China

Issued By:

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com





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1. Test Certification

Product:	Smartphone
Model No.:	RLTP6067
Additional Model No.:	RLTP60XX(XX can be changed from 00 to 99), HN-MPX6000, HN-MPX60XX(XX can be changed from 00 to 99)
Applicant:	ShenZhen Harmony Technology Co., Ltd
Address:	Block 2, Jiayuan Industrial Zone, Heping Community high-tech Park, No 2 Fuyuan Road, Fuyong, Bao'an, Shenzhen, China
Manufacturer:	ShenZhen Harmony Technology Co., Ltd
Address:	Block 2, Jiayuan Industrial Zone, Heping Community high-tech Park, No 2 Fuyuan Road, Fuyong, Bao'an, Shenzhen, China
Date of Test:	Aug. 17 - Aug. 30, 2016
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v03r05
• •	·

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Buy Than

Date: Aug. 30, 2016

Beryl Zhao

Reviewed By:

Date:

Aug. 31, 2016

Joe Zhou

Approved By:

Date:

Aug. 31, 2016

Tomsin



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	1§5.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.





3. EUT Description

	0 11
Product Name:	Smartphone
Model :	RLTP6067
Additional Model:	RLTP60XX(XX can be changed from 00 to 99), HN-MPX6000, HN-MPX60XX(XX can be changed from 00 to 99)
Trade Mark:	N/A
Hardware Version:	AL_x5s_MB_V10
Software Version:	x5s_a_x60_20160804_0114
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	Up to 135Mbps
Antenna Type:	PIFA Antenna
Antenna Gain:	0.5dBi
Power Supply:	Adapter Information: MODEL: XRN-AC01 INPUT: AC100-240V~50/60Hz 0.1A OUTPUT: DC5V±0.5A, 1000mA±50mA
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.



Operation Frequency each of channel For 802.11b/g/n(HT20)

Channel	Frequen	псу	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MF	Hz	4	2427MHz	J)7	2442MHz	10	2457MHz
2	2417MF	Hz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MF	Hz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	(%	4	2427MHz	7	2442MHz		
	1/20	5	2432MHz	8	2447MHz	(G_{-})	
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz





4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

Test software:

Executed command fixed test channel under DOS.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation

1. For WIFI function, the engineering test program was provided and enabled to make



EUT continuous transmit/receive.

2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



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4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	/	1	1	/

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



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5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005

General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%





6. Test Results and Measurement Data

6.1. Antenna requirement

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

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.

E.U.T Antenna:

The Bluetooth antenna is an internal antenna which permanently attached, and the best case gain of the antenna is 0.5dBi.



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6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013	(0)	(C^{\prime})			
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
	Frequency range	Limit (c	lBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Reference	e Plane				
Test Setup:	E.U.T AC power EMI Receiver					
Test Mode:	Charging + transmitting	g with modulation				
Test Procedure:	 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. 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). 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 C63.10: 2013 on conducted measurement. 					
Test Result:	PASS	(6)				



6.2.2. Test Instruments

	NI .			71			
Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI Test Receiver	R&S	ESCS30	100139	Aug. 11, 2017			
LISN	Schwarzbeck	NSLK 8126	8126453	Aug. 16, 2017			
Coax cable	TCT	CE-05	N/A	Aug. 11, 2017			
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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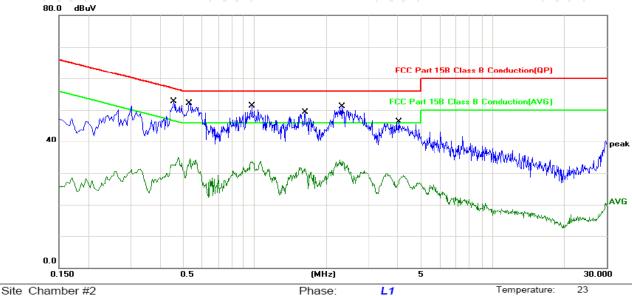
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6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Limit: FCC Part 15B Class B Conduction(QP)

Power: AC 120V/60Hz

Temperature: 23 Humidity: 54 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.4580	36.67	11.32	47.99	56.73	-8.74	QP	
2		0.4580	23.40	11.32	34.72	46.73	-12.01	AVG	
3	*	0.5299	38.71	11.28	49.99	56.00	-6.01	QP	
4		0.5299	25.93	11.28	37.21	46.00	-8.79	AVG	
5		0.9740	36.20	11.20	47.40	56.00	-8.60	QP	
6		0.9740	25.24	11.20	36.44	46.00	-9.56	AVG	
7		1.6340	29.71	11.51	41.22	56.00	-14.78	QP	
8		1.6340	19.58	11.51	31.09	46.00	-14.91	AVG	
9		2.3179	35.99	11.57	47.56	56.00	-8.44	QP	
10		2.3179	24.68	11.57	36.25	46.00	-9.75	AVG	
11		4.0180	31.02	10.96	41.98	56.00	-14.02	QP	
12		4.0180	19.30	10.96	30.26	46.00	-15.74	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

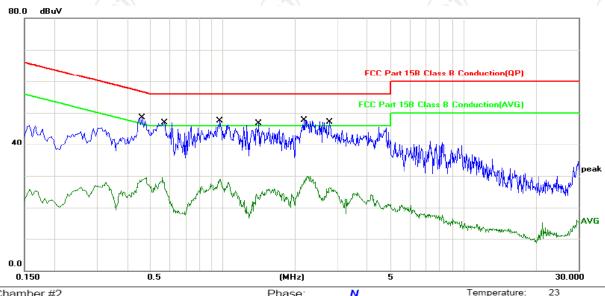
Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2 Phase: N Temperature: 23
Limit: FCC Part 15B Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 54 %

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
	1	*	0.4660	29.69	11.32	41.01	56.58	-15.57	QP		
•	2		0.4660	17.30	11.32	28.62	46.58	-17.96	AVG		
•	3		0.5740	28.60	11.27	39.87	56.00	-16.13	QP		
•	4		0.5740	14.61	11.27	25.88	46.00	-20.12	AVG		
•	5		0.9780	28.91	11.20	40.11	56.00	-15.89	QP		
	6		0.9780	16.15	11.20	27.35	46.00	-18.65	AVG		
	7		1.4060	23.06	11.40	34.46	56.00	-21.54	QP		
•	8		1.4060	10.40	11.40	21.80	46.00	-24.20	AVG		
	9		2.1780	26.51	11.62	38.13	56.00	-17.87	QP		
•	10		2.1780	15.28	11.62	26.90	46.00	-19.10	AVG		
•	11		2.7659	25.09	11.42	36.51	56.00	-19.49	QP		
	12		2.7659	12.29	11.42	23.71	46.00	-22.29	AVG		

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

 $^{^{\}star}$ is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Maximum Conducted (Peak) Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05				
Limit:	30dBm				
Test Setup:	Power Meter Attenuator				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 				
Test Result:	PASS				

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Power Meter	Anritsu	ML2495A	1005002	Aug. 12, 2017
Pulse Power Senor	Anritsu	MA2411B	0917070	Aug. 12, 2017
RF cable	TCT	RE-06	N/A	Aug. 12, 2017
Antenna Connector	тст	RFC-01	N/A	Aug. 12, 2017

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.3.3. Test Data

802.11b mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	21.04	30.00	PASS			
Middle	20.17	30.00	PASS			
Highest	21.02	30.00	PASS			

802.11g mode					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	19.82	30.00	PASS		
Middle	18.76	30.00	PASS		
Highest	19.54	30.00	PASS		

802.11n(H20) mode					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	19.63	30.00	PASS		
Middle	18.81	30.00	PASS		
Highest	19.62	30.00	PASS		

802.11n(H40) mode					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	19.09	30.00	PASS		
Middle	19.02	30.00	PASS		
Highest	19.30	30.00	PASS		

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel

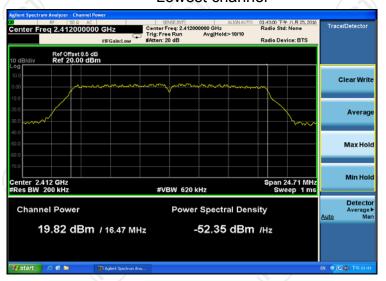


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802.11g Modulation

Lowest channel



Middle channel



Highest channel



Report No.: TCT160817E015



802.11n (HT20) Modulation

Lowest channel



Middle channel



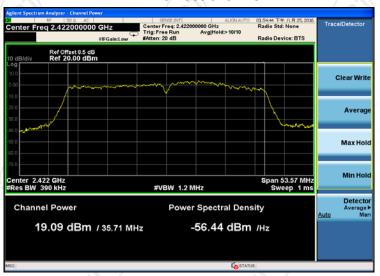




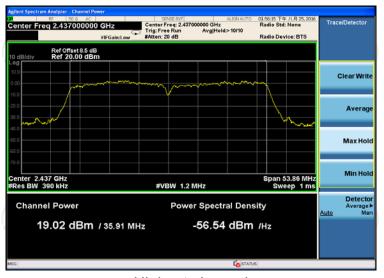


802.11n (HT40) Modulation

Lowest channel



Middle channel







6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05				
Limit:	>500kHz				
Test Setup:					
	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 				
Test Result:	PASS				

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017			
RF cable	тст	RE-06	N/A	Aug. 12, 2017			
Antenna Connector	тст	RFC-01	N/A	Aug. 12, 2017			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.4.3. Test data

Test channel	6dB Emission Bandwidth (MHz)				
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	
Lowest	9.540	16.55	17.76	31.95	
Middle	9.620	16.61	17.84	35.98	
Highest	9.596	16.51	17.69	27.55	
Limit:	>500k				
Test Result:	PASS				

Test plots as follows:



802.11b Modulation

Lowest channel



Middle channel



Highest channel

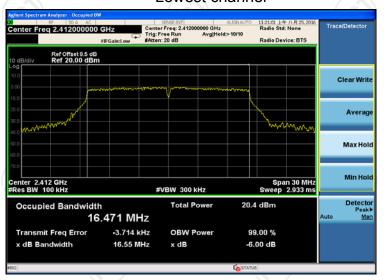


Report No.: TCT160817E015



802.11g Modulation

Lowest channel



Middle channel







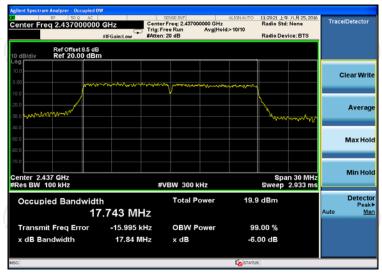


802.11n (HT20) Modulation

Lowest channel



Middle channel







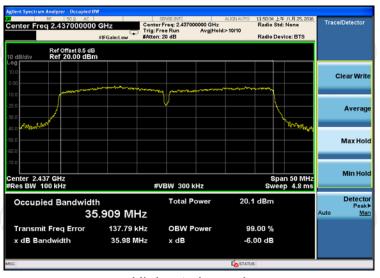


802.11n (HT40) Modulation

Lowest channel



Middle channel







6.5. Power Spectral Density

6.5.1. Test Specification

FCC Part15 C Section 15.247 (e)			
KDB 558074 D01 DTS Meas Guidance v03r05			
The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.			
Spectrum Analyzer EUT			
Transmitting mode with modulation			
 Transmitting mode with modulation The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v03r05 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 			
PASS			

6.5.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Aug. 12, 2017			
RF cable	TCT	RE-06	N/A	Aug. 12, 2017			
Antenna Connector	TCT	RFC-01	N/A	Aug. 12, 2017			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.5.3. Test data

		/ 4			
Test channel	Power Spectral Density (dBm/kHz)				
	802.11b	802.11g	802.11n(H20)	802.11n(H40)	
Lowest	-12.426	-13.551	-13.620	-15.746	
Middle	-13.647	-14.913	-14.482	-15.359	
Highest	-12.366	-13.646	-13.502	-14.689	
Limit:	8dBm/3kHz				
Test Result:	PASS				

Test plots as follows:



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802.11b Modulation

Lowest channel



Middle channel









802.11g Modulation

Lowest channel



Middle channel









802.11n (HT20) Modulation

Lowest channel



Middle channel



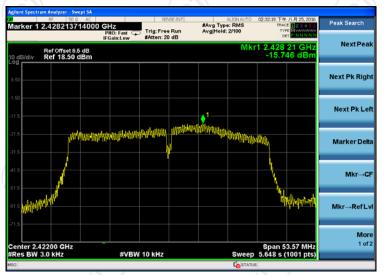






802.11n (HT40) Modulation

Lowest channel



Middle channel



