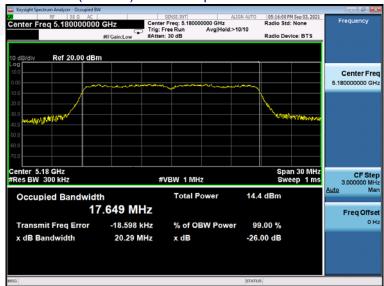


Ant B Test plot

(802.11a) Bandwidth plot on channel 36



(802.11a) Bandwidth plot on channel 40



(802.11a) Bandwidth plot on channel 48



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Test plot

(802.11 ac20) Bandwidth plot on channel 36



(802.11 ac20) Bandwidth plot on channel 40



(802.11 ac20) Bandwidth plot on channel 48



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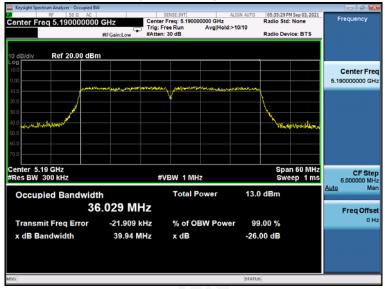
1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China



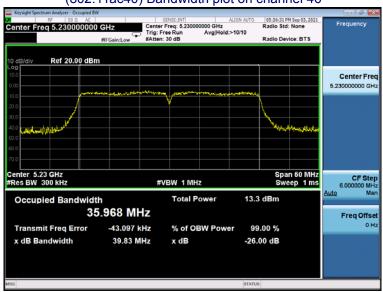
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Test plot (802.11ac40) Bandwidth plot on channel 38



(802.11ac40) Bandwidth plot on channel 46



(802.11n40) Bandwidth plot on channel 38



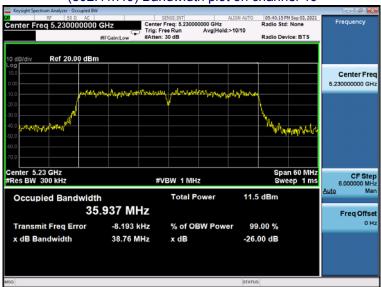
Shenzhen ZKT Technolgy Co., Ltd.

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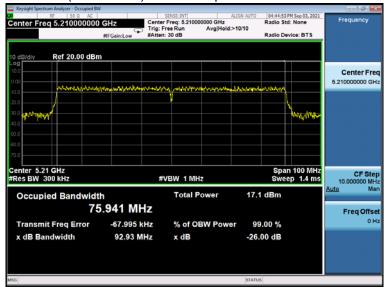


Test plot

(802.11n40) Bandwidth plot on channel 46



(802.11ac80) Bandwidth plot on channel 42

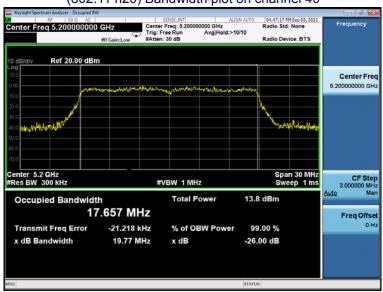




Test plot (802.11 n20) Bandwidth plot on channel 36



(802.11 n20) Bandwidth plot on channel 40



(802.11 n20) Bandwidth plot on channel 48



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	Ant A							
Test CH	-6dB Channel Bandwidth (MHz)					Limit	Result	
	802.11a	802.11ac (20)	802.11ac (40)	802.11ac (80)	802.11n (40)	802.11n (20)	(KHz)	
Lowest	16.41	17.58	36.19		36.23	17.60		
Middle	16.42	17.75		76.61		17.58	>500	Pass
Highest	16.41	17.44	36.18		36.20	17.61		

	Ant B							
Test CH	-6dB Channel Bandwidth (MHz)					Limit	Result	
	802.11a	802.11ac (20)	802.11ac (40)	802.11ac (80)	802.11n (40)	802.11n (20)	(KHz)	
Lowest	17.47	17.56	36.11		36.13	17.57	N/S	
Middle	17.63	17.65		76.48		17.72	>500	Pass
Highest	17.59	17.75	36.25		36.25	17.56		



Ant A Test plot

(802.11a) Bandwidth plot on channel 36



(802.11a) Bandwidth plot on channel 40



(802.11a) Bandwidth plot on channel 48



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Test plot

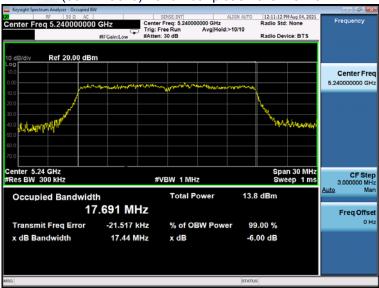
(802.11 ac20) Bandwidth plot on channel 36



(802.11 ac20) Bandwidth plot on channel 40



(802.11 ac20) Bandwidth plot on channel 48



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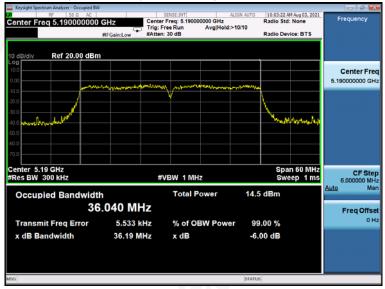


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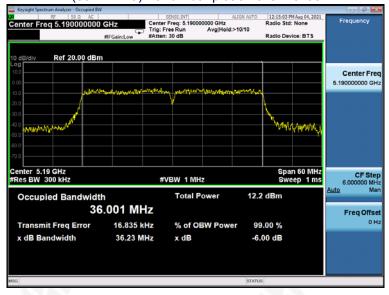
Test plot (802.11ac40) Bandwidth plot on channel 38



(802.11ac40) Bandwidth plot on channel 46



(802.11n40) Bandwidth plot on channel 38



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(802.11n40) Bandwidth plot on channel 46



(802.11ac80) Bandwidth plot on channel 42

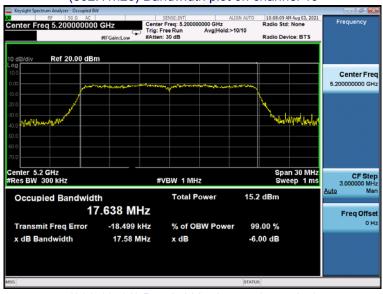




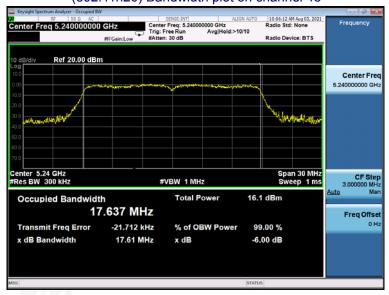
Test plot (802.11n20) Bandwidth plot on channel 36



(802.11n20) Bandwidth plot on channel 40



(802.11n20) Bandwidth plot on channel 48



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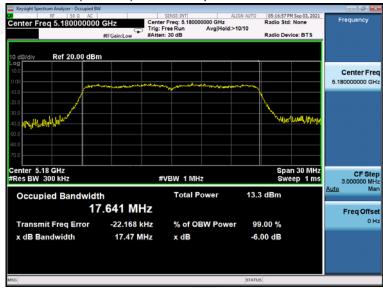
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Ant B Test plot

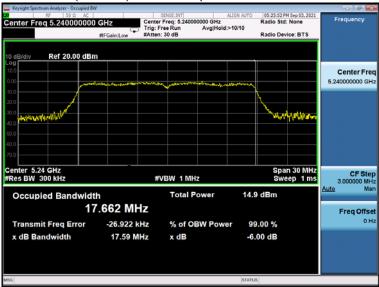
(802.11a) Bandwidth plot on channel 36



(802.11a) Bandwidth plot on channel 40



(802.11a) Bandwidth plot on channel 48



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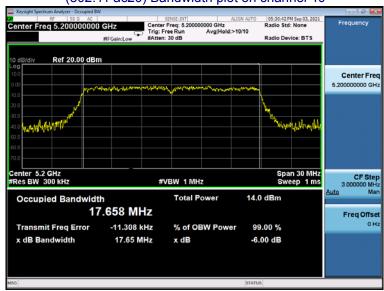


Test plot

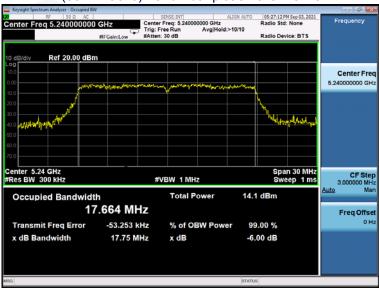
(802.11 ac20) Bandwidth plot on channel 36



(802.11 ac20) Bandwidth plot on channel 40



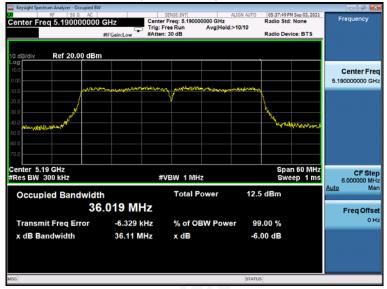
(802.11 ac20) Bandwidth plot on channel 48



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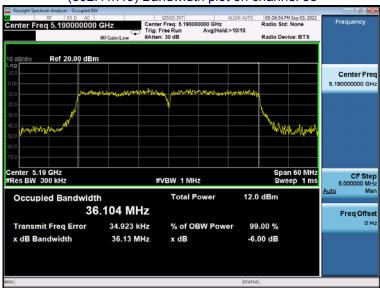
Test plot (802.11ac40) Bandwidth plot on channel 38



(802.11ac40) Bandwidth plot on channel 46



(802.11n40) Bandwidth plot on channel 38



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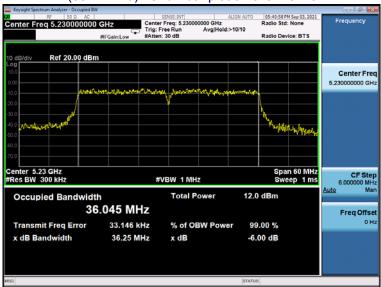
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Test plot

(802.11n40) Bandwidth plot on channel 46



(802.11ac80) Bandwidth plot on channel 42

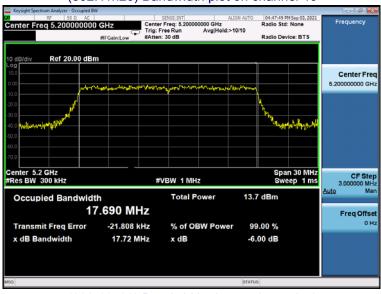




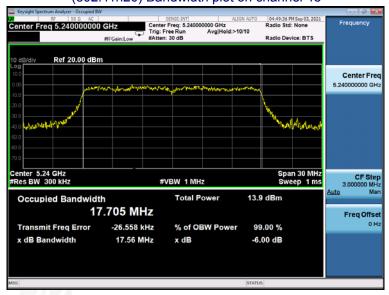
Test plot (802.11n20) Bandwidth plot on channel 36



(802.11n20) Bandwidth plot on channel 40



(802.11n20) Bandwidth plot on channel 48



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7.MAXIMUM CONDUCTED OUTPUT POWER

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7.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit	
5150~5250	250mW	
5725~5850	1W	

7.2 TEST PROCEDURE

The EUT was directly connected to the Power meter

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

- a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
- b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

- a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
- The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
- (ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.
- (iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.
- b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

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(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

EUT	POWER	METER
	FOWER	METER

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 :	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX		

Туре	Frequency		m output r(dBm)	Total Output	FCC Limit	Result
Турс	(MHz)	ANT A	ANT B	Power(dBm)	(dBm)	
	5180	4.049	4.654	1	23.98	Pass
802.11a	5200	5.106	4.668	1	23.98	Pass
	5240	5.781	5.557	/	23.98	Pass
200/11	5180	4.768	4.906	7.85	22.97	Pass
802.11ac (20M)	5200	4.936	4.638	7.80	22.97	Pass
(2011)	5240	4.086	5.231	7.71	22.97	Pass
802.11ac	5190	3.655	3.557	6.62	22.97	Pass
(40M)	5230	4.905	4.025	7.50	22.97	Pass
802.11ac (80M)	5210	4.004	3.691	6.86	22.97	Pass
802.11n	5190	4.506	4.285	7.41	22.97	Pass
(40M)	5230	4.705	4.193	7.47	22.97	Pass
000.44	5180	4.041	4.472	7.27	22.97	Pass
802.11n (20M)	5200	4.436	4.693	7.58	22.97	Pass
(ZOIVI)	5240	4.746	5.046	7.91	22.97	Pass

8.OUT OF BAND EMISSIONS

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8.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.

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. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antennaterminal to measurement instrument via a low loss cable. Then set it to any one measured frequency withinits operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graphwith marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

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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xkt@zkt-lab.com





Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Voltage :	AC 120V/60Hz

Ant A

(802.11a) Band Edge, Left Side

(802.11ac20) Band Edge, Left Side





(802.11a) Band Edge, Right Side

(802.11ac20) Band Edge, Right Side





(802.11n20) Band Edge, Left Side

(802.11n20) Band Edge, Right Side





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zkt@zkt-lab.com





(802.11ac40) Band Edge, Left Side

(802.11ac80) Band Edge





(802.11ac40) Band Edge, Right Side



(802.11n40) Band Edge, Left Side



(802.11n40) Band Edge, Right Side



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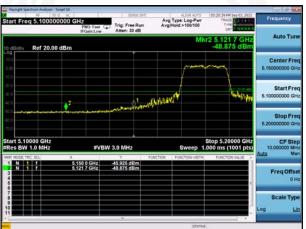




(802.11a) Band Edge, Left Side

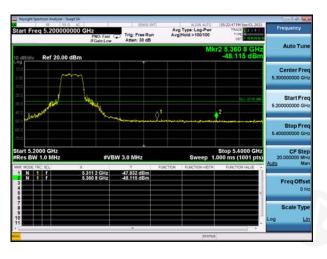
(802.11ac20) Band Edge, Left Side





(802.11a) Band Edge, Right Side

(802.11ac20) Band Edge, Right Side





(802.11n20) Band Edge, Left Side

Start Freq 5.10000000 GHz
FRO I and Low
Historia Company
Historia

(802.11n20) Band Edge, Right Side



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(802.11ac40) Band Edge, Left Side

(802.11ac80) Band Edge





(802.11ac40) Band Edge, Right Side



(802.11n40) Band Edge, Left Side



(802.11n40) Band Edge, Right Side



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9.SPURIOUS RF CONDUCTED EMISSIONS

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9.1 CONFORMANCE LIMIT

- 1. Below -20dB of the highest emission level in operating band.
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

9.2 MEASURING INSTRUMENTS

The Measuring equipment is listed in the section 6.3 of this test report.

9.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.4 TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 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=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 26.5GHz.

9.5 TEST RESULTS

Remark: The measurement frequency range is from 30MHz to the 5th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Test plot as follows:

Remark: Spurious Emission all modes of 802.11a, 802.11ac20, 802.11ac40, 802.11ac80, 802.11n40 were tested, only the worst result of 802.11b

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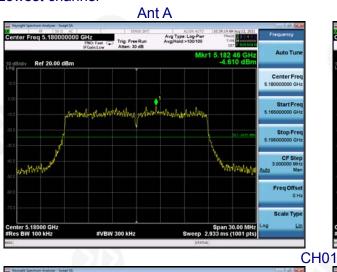


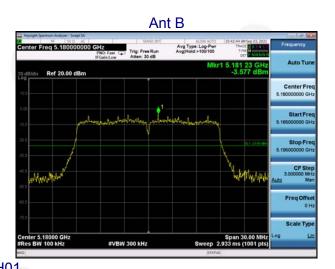




802.11a

Lowest channel

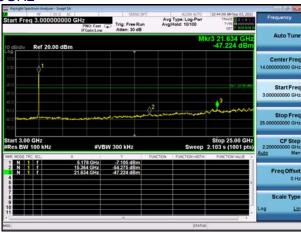












3GHz~25GHz

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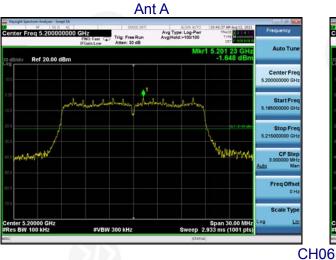


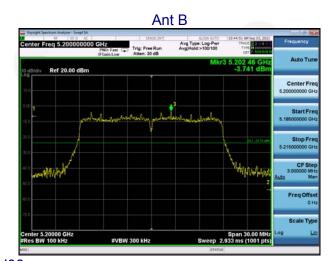




802.11a

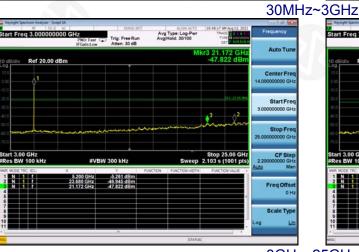
Middle channel

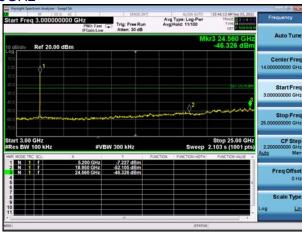












3GHz~25GHz

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





zkt@zkt-lab.com

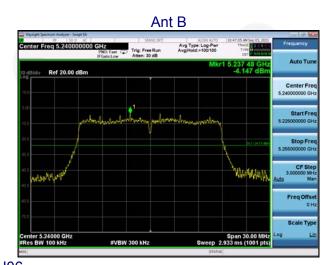




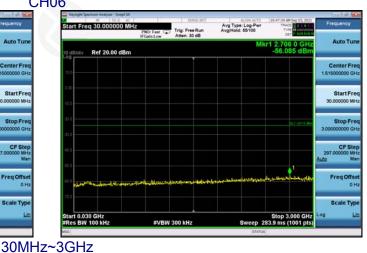
802.11a

Highest channel













3GHz~25GHz

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10.Frequency Stability Measurement

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10.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

10.2 TEST PROCEDURES

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. EUT have transmitted absence of modulation signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
- 5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 106$ ppm and the limit is less than ± 20 ppm (IEEE 802.11nspecification).
- 6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 7. Extreme temperature is -20°C~70°C.

10.3 TEST SETUP LAYOUT

EUT	SPECTRUM
	ANALYZER

10.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

10.5 TEST RESULTS

Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1012 hPa	Test Mode :	TX

Record the wors test data for Antenna B in report.

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5.2G

802.11a

	Reference Frequency(Middle Channel): 5200 MHz						
Environment Temperature	Power Supplied	Frequency Measure with Time Elapsed					
(°C)	(VDC)	MCF	Error (ppm)				
50	5.0	63	0.01089				
40	5.0	51	0.00882				
30	5.0	43	0.00743				
20	5.0	32	0.00553				
10	5.0	23	0.00398				
0	5.0	26	0.00449				
-10	5.0	22	0.00380				
-20	5.0	36	0.00622				
-30	5.0	43	0.00743				

802.11ac20

7 <u>2.11ac20</u>							
	Reference Frequency(Middle Channel): 5200MHz						
Environment	Power Supplied	Frequency Measure with Time Elapsed					
Temperature (°C)	(VDC)	MCF	Error (ppm)				
50	5.0	55	0.00951				
40	5.0	42	0.00726				
30	5.0	32	0.00553				
20	5.0	24	0.00415				
10	5.0	22	0.00380				
0	5.0	12	0.00207				
-10	5.0	13	0.00225				
-20	5.0	21	0.00363				
-30	5.0	32	0.00553				



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802.11ac40

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1ac+0			
	Reference Frequency	y(Middle Channel): 5190MHz	2
Environment	Power Supplied	Frequency Measure with Time Elapsed	
Temperature (°C)	(VDC)	MCF	Error (ppm)
50	5.0	61	0.01053
40	5.0	54	0.00932
30	5.0	42	0.00725
20	5.0	44	0.00759
10	5.0	34	0.00587
0	5.0	32	0.00552
-10	5.0	34	0.00587
-20	5.0	42	0.00725
-30	5.0	51	0.00880

802.11ac80

2.TTac80					
	Reference Frequency(Middle Channel): 5210MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed			
Temperature (°C)	(VDC)	MCF	Error (ppm)		
50	5.0	63	0.01091		
40	5.0	52	0.00900		
30	5.0	43	0.00745		
20	5.0	41	0.00710		
10	5.0	36	0.00623		
0	5.0	32	0.00554		
-10	5.0	34	0.00589		
-20	5.0	43	0.00745		
-30	5.0	52	0.00900		



802.11n40

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	Reference Frequency(Middle Channel): 5190MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed			
Temperature (°C)	(VDC)	MCF	Error (ppm)		
50	5.0	60	0.01051		
40	5.0	52	0.00900		
30	5.0	41	0.00710		
20	5.0	43	0.00745		
10	5.0	34	0.00587		
0	5.0	32	0.00552		
-10	5.0	34	0.00587		
-20	5.0	42	0.00725		
-30	5.0	52	0.00900		

802.11n20

) <u>2.11n20</u>				
Reference Frequency(Middle Channel): 5200MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	MCF	Error (ppm)	
50	5.0	54	0.00932	
40	5.0	43	0.00745	
30	5.0	34	0.00587	
20	5.0	23	0.00398	
10	5.0	22	0.00380	
0	5.0	12	0.00207	
-10	5.0	13	0.00225	
-20	5.0	36	0.00622	
-30	5.0	22	0.00380	





So, Frequency Stability Versus Input Voltage is:

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802.11a

Reference Frequency(Middle Channel): 5200 MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	Frequency	Error (ppm)	
	5.0	34	0.00588	
20	5.0	32	0.00553	
	5.0	33	0.00570	

802.11ac20

2.114020				
Reference Frequency(Middle Channel): 5200 MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	Frequency	Error (ppm)	
	5.0	55	0.00951	
20	5.0	21	0.00363	
	5.0	43	0.00743	

802.11ac40

2.118040				
Reference Frequency(Middle Channel): 5190 MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	Frequency	Error (ppm)	
	5.0	42	0.00725	
20	5.0	44	0.00759	
	5.0	42	0.00725	

802.11ac80

<u> </u>				
Reference Frequency(Middle Channel): 5210 MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	Frequency	Error (ppm)	
20	5.0	42	0.00727	
	5.0	44	0.00762	
	5.0	42	0.00727	

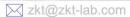
802.11n40

	2.111140				
Reference Frequency(Middle Channel): 5190 MHz					
Environment	Power Supplied	Frequency Measure with Time Elapsed			
Temperature (°C)	(VDC)	Frequency	Error (ppm)		
	5.0	43	0.00743		
20	5.0	44	0.00759		
	5.0	42	0.00725		

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802.11ac20

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Reference Frequency(Middle Channel): 5200 MHz				
Environment	Power Supplied	Frequency Measure with Time Elapsed		
Temperature (°C)	(VDC)	Frequency	Error (ppm)	
	5.0	44	0.00759	
20	5.0	32	0.00553	
	5.0	43	0.00743	



11.ANTENNA REQUIREMENT

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Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

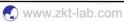
The antenna is Internal Antenna, the best case gain of the antenna is 4dBi, reference to the appendix II for details

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12. TEST SETUP PHOTO

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Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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

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