		DT		
	TEST REPO	<b>Γ</b> Ι		
FCC ID :	2BKCK-HB716208437			
Test Report No:	TCT241101E019			
Date of issue:	Nov. 15, 2024			
Testing laboratory:	SHENZHEN TONGCE TEST	ING LAB		
Testing location/ address:	· · ·	ctory Renshan Industrial Zone, Fuhai henzhen, Guangdong, 518103,		
Applicant's name: :	Dongguan World Pass Indust	trial Co., LTD		
Address:	No. 3, Chang' an Xingfa Sout City, Guangdong Province	h Road, Chang' an Town, Dongguan		
Manufacturer's name :	Dongguan World Pass Indust	trial Co., LTD		
Address:	No. 3, Chang' an Xingfa South Road, Chang' an Town, Dongguan City, Guangdong Province			
Standard(s):	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01			
Product Name::	Wireless Display Adapter			
Trade Mark:	N/A			
Model/Type reference :	HB716(208437)			
Rating(s):	Power supply: DC 5V from ty	pe-C		
Date of receipt of test item	Nov. 01, 2024			
Date (s) of performance of test:	Nov. 02, 2024 ~ Nov. 14, 202	24		
Tested by (+signature) :	Ronaldo LUO	R-mald, Ray GCE,		
Check by (+signature) :	Beryl ZHAO			
Approved by (+signature):	Tomsin			

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		<mark>金 测</mark> TECHNOLOGY	Report No.: TCT241101E019
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### **1. General Product Information**

#### Report No.: TCT241101E019

### 1.1. EUT description

Product Name:	Wireless Display Adapter	
Model/Type reference:	HB716(208437)	
Sample Number:	TCT241101E019-0101	
Operation Frequency:	Band 1: 5180 MHz~5240 MHz	
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz	(C
Modulation Technology:	Orthogonal Frequency Division Multiplexing	(OFDM)
Modulation Type:	256QAM, 64QAM, 16QAM, BPSK, QPSK	
Antenna Type:	Internal Antenna	
Antenna Gain:	2.0dBi	
Rating(s):	Power supply: DC 5V from type-C	( c

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

None.

### 1.3. Test Frequency

#### Band 1

20MHz		40MHz	
Channel Frequency		Channel	Frequency
36	5180	38	5190
40	5200	46	5230
48	5240	U.S.	)

#### 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:

## 2. Test Result Summary

CT 通测检测 TESTING CENTRE TECHNOLOGY

Requirement	CFR 47 Section	Result	
Antenna requirement	§15.203	PASS	
AC Power Line Conducted Emission	§15.207	PASS	
Maximum Conducted Output Power	§15.407(a)	PASS	Œ
6dB Emission Bandwidth	§15.407(a)	PASS	
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS	
Power Spectral Density	§15.407(a)	PASS	
Restricted Bands around fundamental frequency	§15.407(b)	PASS	(C
Radiated Emission	§15.407(b)	PASS	
Frequency Stability	§15.407(g)	PASS	
		1.0.1	

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.

5. For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

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. Test environment an		
Dperating Environment: Temperature:	25.0 °C	
Humidity:	56 % RH	
	1010 mbar	
Atmospheric Pressure:	TOTOTIDA	
est Software:		( <u>(</u> ())
Software Information:	RTL8723FU	
Power Level:	10	<i>_</i>
Engineering mode:	Keep the EUT in continuo	us transmitting by select
The sample was placed 0.8r om chamber. Measurements During the test, each emission vorking, investigated all oper considered typical configuration ables, rotating the turntable	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r a, varying antenna height from	with max. duty cycle. above the ground plane of al polarities were performe the EUT continuously III 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4m in both horizor
The sample was placed 0.8r om chamber. Measurements During the test, each emission vorking, investigated all oper considered typical configuration ables, rotating the turntable	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r	with max. duty cycle. above the ground plane of al polarities were performe the EUT continuously III 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4m in both horizor
The sample was placed 0.8r or chamber. Measurements During the test, each emission working, investigated all ope considered typical configurations ables, rotating the turntable and vertical polarizations. The pllowing pages.	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r a, varying antenna height from he emissions worst-case are s	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously III 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4 m in both horizon shown in Test Results of the peration. All the test mode
The sample was placed 0.8r am chamber. Measurements During the test, each emission working, investigated all oper considered typical configurate ables, rotating the turntable and vertical polarizations. The collowing pages.	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r a, varying antenna height from he emissions worst-case are s	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously all 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4m in both horizon shown in Test Results of the peration. All the test mode hich was shown in this test
The sample was placed 0.8r or chamber. Measurements During the test, each emission working, investigated all oper considered typical configurations ables, rotating the turntable and vertical polarizations. The pollowing pages. We have verified the constru- vere carried out with the EU eport and defined as follows Per-scan all kind of data rates	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r a, varying antenna height from he emissions worst-case are s	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously all 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4m in both horizon shown in Test Results of the peration. All the test mode hich was shown in this test bund the follow list which
The sample was placed 0.8r am chamber. Measurements During the test, each emission vorking, investigated all oper considered typical configurations ables, rotating the turntable and vertical polarizations. The collowing pages. We have verified the constru- vere carried out with the EU eport and defined as follows Per-scan all kind of data rations was worst case.	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r e, varying antenna height from he emissions worst-case are s net in transmitting operation, w	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously all 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4 m in both horizon shown in Test Results of the peration. All the test mode hich was shown in this test <b>bund the follow list which</b> rate
The sample was placed 0.8r on chamber. Measurements During the test, each emission working, investigated all oper considered typical configurations ables, rotating the turntable and vertical polarizations. The pollowing pages. We have verified the constru- vere carried out with the EU eport and defined as follows Per-scan all kind of data rations was worst case. Mode	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r e, varying antenna height from the emissions worst-case are s net in transmitting operation, w s: te in lowest channel, and for Data	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously all 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4 m in both horizon shown in Test Results of the peration. All the test mode hich was shown in this test <b>bund the follow list which</b> rate
The sample was placed 0.8r am chamber. Measurements During the test, each emission vorking, investigated all oper considered typical configurations ables, rotating the turntable and vertical polarizations. The collowing pages. We have verified the constru- vere carried out with the EU eport and defined as follows Per-scan all kind of data rations was worst case. Mode 802.11a(SISO)	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertica on was maximized by: having rating modes, rotated about a tion to obtain worst position, r e, varying antenna height from the emissions worst-case are s net in and function in typical of T in transmitting operation, w s: te in lowest channel, and for Data 6 M	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously all 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4m in both horizon shown in Test Results of the peration. All the test mode hich was shown in this test <b>bund the follow list which</b> rate bps Abps
The sample was placed 0.8r am chamber. Measurements During the test, each emission working, investigated all oper considered typical configurations ables, rotating the turntable and vertical polarizations. The pollowing pages. We have verified the constru- vere carried out with the EU eport and defined as follows Per-scan all kind of data ra- vas worst case. Mode 802.11a(SISO) 802.11n(HT20)	channel and modulations n/1.5m for blow/above 1GHz in both horizontal and vertication on was maximized by: having rating modes, rotated about a tion to obtain worst position, r e, varying antenna height from the emissions worst-case are se action and function in typical of T in transmitting operation, w s: te in lowest channel, and for Data 6 M 6.5 M	with max. duty cycle. above the ground plane of al polarities were performed the EUT continuously all 3 axis (X, Y & Z) and nanipulating interconnection 1 m to 4m in both horizon shown in Test Results of the peration. All the test mode hich was shown in this test <b>bund the follow list which</b> rate bps Abps

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### 3.2. 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
Notebook	S4000U	BBOR	TX2-RTL8822BE	ASUS

#### 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, 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.

## 4. Facilities and Accreditations

### 4.1. Facilities

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

 FCC - Registration No.: 645098
 SHENZHEN TONGCE TESTING LAB Designation Number: CN1205

The testing lab 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
 SHENZHEN TONGCE TESTING LAB
 CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

### 4.2. Location

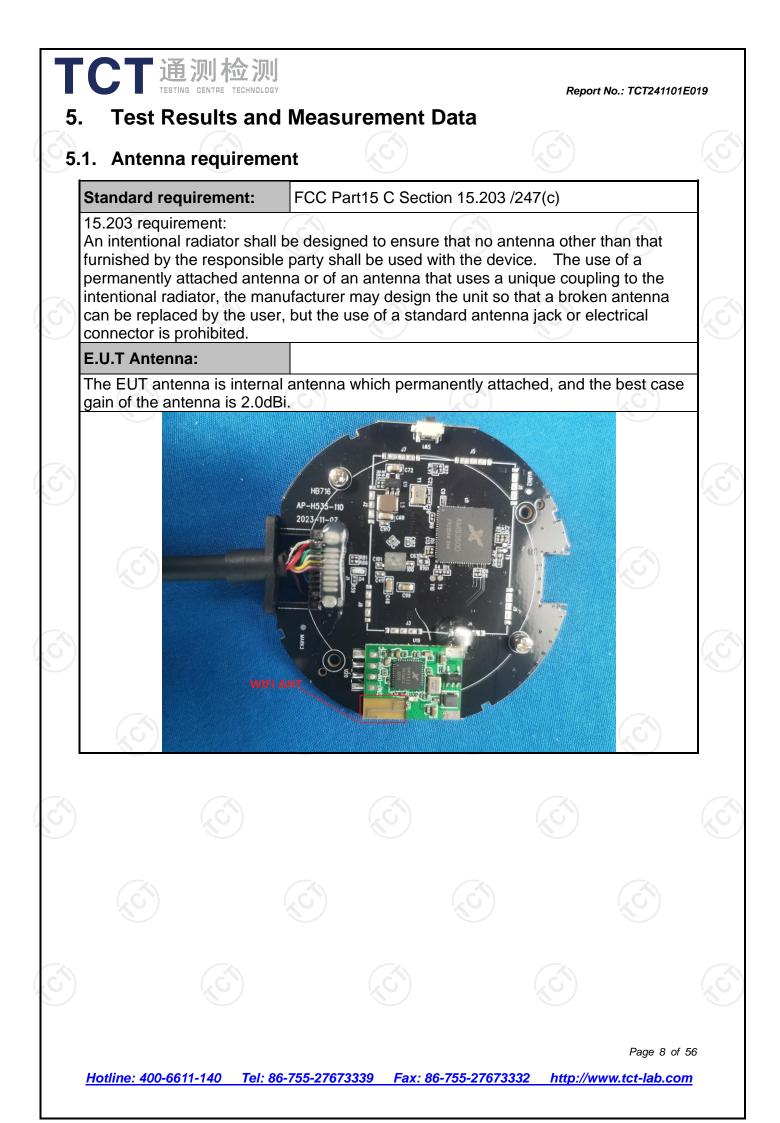
SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

### 4.3. 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	± 3.10 dB	
2	RF power, conducted	± 0.12 dB	
3	Spurious emissions, conducted	± 0.11 dB	
4	All emissions, radiated(<1 GHz)	± 4.56 dB	
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB	
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB	S



CT通测检测 TESTING CENTRE TECHNOLOG	, 	Re	port No.: TCT241101E01
2. Conducted Emission 2.1. Test Specification	on		
Test Requirement:	FCC Part15 C Section 1	5.207	
Fest Method:	ANSI C63.10:2020		$\left( \mathcal{C}^{\prime}\right)$
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30 k	Hz, Sweep time	=auto
_imits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56* 56 60	BuV) Average 56 to 46* 46 50
Гest Setup:	Reference P 40cm E.U.T AC power	<sup>80cm</sup> LISN	AC power
	Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Networ Test table height=0.8m	EMI Receiver	
Test Mode:	Transmitting Mode		
Test Procedure:	<ol> <li>The E.U.T and simula power through a line i (L.I.S.N.). This provi impedance for the mea</li> <li>The peripheral devices power through a LISI coupling impedance w refer to the block d photographs).</li> <li>Both sides of A.C. li conducted interference emission, the relative p the interface cables in ANSI C63.10:2020 on</li> </ol>	impedance stab ides a 500hm asuring equipme s are also conne N that provides vith 500hm term iagram of the ine are checke e. In order to fir positions of equi must be change	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum d the maximum ipment and all of ed according to
Test Result:	PASS		

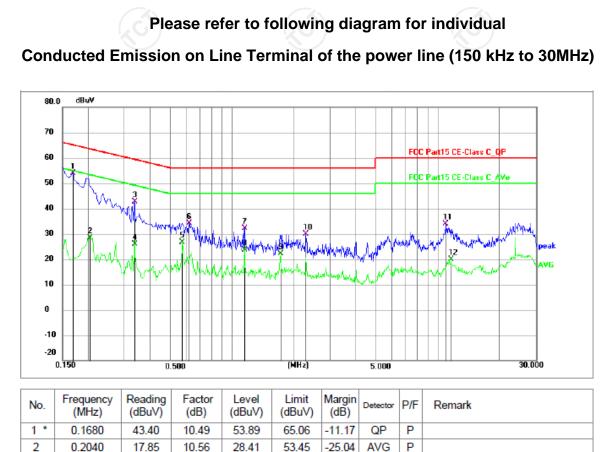


### 5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025		
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025		
Attenuator	N/A	10dB	164080	Jun. 26, 2025		
Line-5	тст	CE-05	1	Jun. 26, 2025		
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	/		

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#### 5.2.3. Test data



Ρ

Ρ

Ρ

P

Ρ

Ρ

Ρ

P P

QP

AVG

AVG

QP

OP

AVG

AVG

QP

QP

AVG

#### Note:

3

4

5

6

7

8

9

10

11

12

0.3345

0.3345

0.5730

0.6180

1.1490

1.1490

1.7202

2.2920

10.8780

11.5663

Freq. = Emission frequency in MHz

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

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

32.12

15.23

15.90

23.55

21.47

12.86

11.46

19.13

23.13

8.91

10.57

10.57

10.62

10.64

10.66

10.66

10.67

10.67

10.86

10.86

42.69

25.80

26.52

34.19

32.13

23.52

22.13

29.80

33.99

19.77

59.34

49.34

46.00

56.00

56.00

46.00

46.00

56.00

60.00

50.00

-16.65

-23.54

-19.48

-21.81

-23.87

-22.48

-23.87

-26.20

-26.01

-30.23

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) dBu¥ 80.0 70 FCC Part15 CE-Class C\_QP 60 FCC Part15 CE-Class C\_AVe 50 40 30 14 dauba and the 20 10 0 -10 -20 0.150 (MHz) 30.000 5.000 0.500 Reading Frequency Factor Level Limit Margin Detector P/F No. Remark (MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 1 \* 0.1905 10.54 50.60 QP Ρ 40.06 64.01 -13.41 2 0.1995 18.27 10.56 28.83 53.63 -24.80 AVG Ρ

Ρ

P

Ρ

P

Ρ

P

P

P

QP

AVG

QP

AVG

AVG

OP

QP

AVG

QP

AVG

Note: 1	1. Freq. =	Emission	frequency	in MHz
---------	------------	----------	-----------	--------

Reading level ( $dB\mu V$ ) = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss

35.68

14.85

26.97

17.36

10.61

22.89

23.41

8.99

20.70

15.03

10.56

10.56

10.57

10.62

10.67

10.67

10.84

10.83

11.15

11.17

46.24

25.41

37.54

27.98

21.28

33.56

34.25

19.82

31.85

26.20

61.35

51.21

56.37

46.00

46.00

56.00

60.00

50.00

60.00

50.00

-15.11

-25.80

-18.83

-18.02

-24.72

-22.44

-25.75

-30.18

-28.15

-23.80

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

3

4

5

6

7

8

9

10 11

12

0.2625

0.2670

0.4783

0.5730

1.7160

1.8465

11.1342

11.5304

23.4780

23.8290

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

2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40) and the worst case Mode (Highest channel and 802.11n(HT40)) was submitted only.

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## 5.3. Maximum Conducted Output Power

### 5.3.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

ECC Part15 E Soctio	on 15 407(a) & Part 2   Section
2.1046	
KDB789033 D02 Ge	Iltiple Transmitter Output v02r01 eneral UNII Test Procedures New n E
Frequency Band (MHz)	Limit
5180 - 5240	24dBm(250mW) for client device
5260 - 5320	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz
5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz
5745 - 5825	30dBm(1W)
Power meter	EUT
Transmitting mode w	vith modulation
KDB789033 D02 Rules v02r01 Set 2. The RF output of meter by RF cab to the results for 3. Set to the maximu EUT transmit cor 5. Measure the cond	EUT was connected to the power le. The path loss was compensated each measurement. Im power setting and enable the ntinuously. lucted output power and record the
PASS	
+10log(1/x), X is dut	ower= measurement power y cycle=1, so 10log(1/1)=0 ower= measurement power
	<u>(0)</u>
	KDB662911 D01 Mu         KDB789033 D02 Ge         Rules v02r01 Section         Frequency Band         (MHz)         5180 - 5240         5260 - 5320         5470 - 5725         5745 - 5825         Power meter         Transmitting mode w         1. The testing follows         KDB789033 D02         Rules v02r01 Sec         2. The RF output of meter by RF cable         13. Set to the maximu         EUT transmit cord         5. Measure the condor         results in the test of         PASS         Conducted output potention

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### 5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 26, 2025
Power Sensor	Agilent	8184A	MY41096530	Jun. 26, 2025
Test Software	TST Pass	/	/	/

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CT通测检测 TESTING CENTRE TECHNOLOG	Report No.: TCT241101E01
4. 6dB Emission Ban 5.4.1. Test Specification	dwidth
Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/	/	/

## 5.5. 26dB Bandwidth and 99% Occupied Bandwidth

### 5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/		The second se





## 5.6. Power Spectral Density

5.6.1.	Test	Specification
--------	------	---------------

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	<ul> <li>≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device)</li> <li>≤11.00dBm/MHz for Band 2A&amp;2C 5250-5350&amp;5470-5725</li> <li>≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz</li> <li>The e.i,r,p spectral density for Band 1 5150MHz – 5250</li> <li>MHz should not exceed 10dBm/MHz</li> </ul>
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS.</li> <li>Allow the sweeps to continue until the trace stabilizes.</li> <li>Use the peak marker function to determine the maximum amplitude level.</li> <li>The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.</li> </ol>
Test Result:	PASS

### 5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/		
	(2G)	-		



Report No.: TCT241101E019 5.7. Band edge 5.7.1. Test Specification **Test Requirement:** FCC CFR47 Part 15E Section 15.407 **Test Method:** ANSI C63.10:2020 In un-restricted band: For Band 1&2A&2C: -27dBm/MHz For Band 3: Frequency Limit Frequency Limit (MHz) (dBm/MHz) (MHz) (dBm/MHz) -27 5850~5855 27~15.6 650 < 5650~5700 -27~10 5855~5875 15.6~10 Limit: 5700~5720 10~15.6 5875~5925 10~-27 5720~5725 15.6~27 > 5925 -27  $E[dB\mu V/m] = EIRP[dBm] + 95.2 @3m$ In restricted band: Detector Limit@3m Peak 74dBµV/m 54dBµV/m AVG **Test Setup:** Test Recei Test Mode: Transmitting mode with modulation 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical Test Procedure: polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold

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3	est Result:	<u>[ 沪] 检 沪</u>	Mode. 6. If the 10dB lo stopped reporte 10dB m quasipe	d and the pe d. Otherwise	e limit speci eak values o e the emissi d be re-teste age method	UT in peak fied, then te of the EUT w ons that did ed one by on	sting could b ould be not have le using peak	e
5								

### 5.7.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

		nission Test Sit	. ,	• •••
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Coaxial cable	SKET	RE-03-D	5) /	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	1 (6)	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	G) /	
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	



### 5.7.3. Test Data

TCT 通测检测 TESTING CENTRE TECHNOLOGY

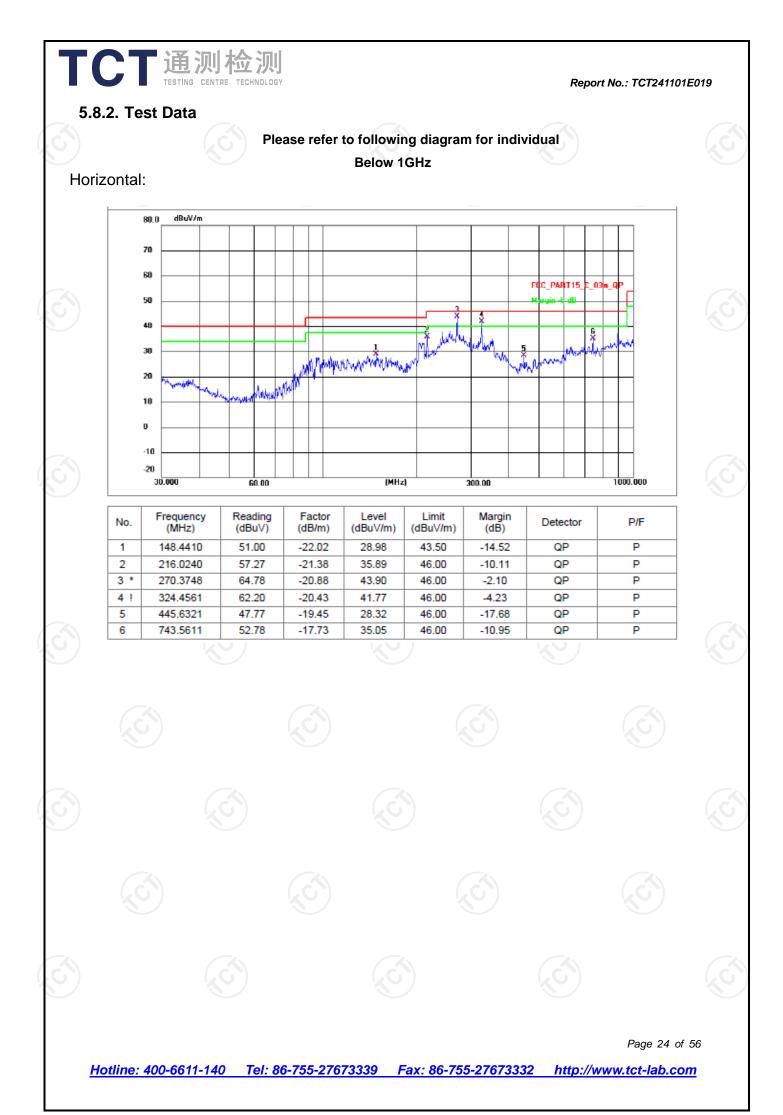
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
1	5054.380	39.97	5.28	45.25	74.00	-28.75	Peak	Pass
2	5150.000	42.91	5.33	48.24	74.00	-25.76	Peak	Pass
				channel, Te		on: Horizo	ntal	
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
1	5029.380	40.72	5.35	46.07	74.00	-27.93	Peak	Pass
2	5150.000	43.39	5.33	48.72	74.00	-25.28	Peak	Pass
				t channel, T			al	
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
1	5350.000	41.21	5.45	46.66	74.00	-27.34	Peak	Pass
2	5460.000	43.83	5.52	49.35	74.00	-24.65	Peak	Pass
<u>\</u>				channel, Te			ntal	(
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Level (dBµV/m)	Limit (dBµV/m)	Marging (dB)	Detector	Result
1	5350.000	40.32	5.45	45.77	74.00	-28.23	Peak	Pass
				F0 47	74.00		Deale	Pass
	5460.000 ark: Test frequ All modulation (80	than	the limit 2	20dB, not sh	ow in test re	eport.		
Rema	ark: Test frequ	uency up to than	40GHz a the limit 2	and the emis 20dB, not sh	ssion levels low in test re	of other fre eport.	quencies a	
Rema	ark: Test frequ	uency up to than	40GHz a the limit 2	and the emis 20dB, not sh	ssion levels low in test re	of other fre eport.	quencies a	
Rema	ark: Test frequ	uency up to than	40GHz a the limit 2	and the emis 20dB, not sh	ssion levels low in test re	of other fre eport.	quencies a	
Rema	ark: Test frequ	uency up to than	40GHz a the limit 2	and the emis 20dB, not sh	ssion levels low in test re	of other fre eport.	quencies a	
Rema	ark: Test frequ	uency up to than	40GHz a the limit 2	and the emis 20dB, not sh	ssion levels low in test re	of other fre eport.	quencies a	

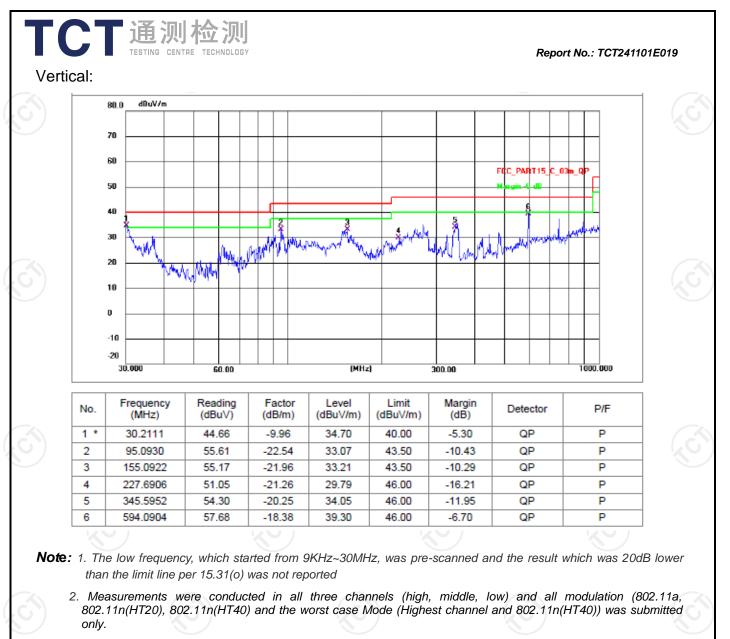
## 5.8. Unwanted Emissions

Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205						
Test Method:	KDB 789033	D02 v02r	01				
Frequency Range:	9kHz to 40GHz						
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal & Vertical						
Operation mode:	Transmitting mode with modulation						
	Frequency Detector RBW VBW Remark						
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value		
	In restricted Frequer Above 1	ncy	Detector Peak		Limit@3m 74dBµV/m		
Limit:	Frequency 0.009-0.490	F (r	AVC ield Strengt nicrovolts/m 400/F(KHz)	h	54dBµV/m Measurement Distance (meters) 300		
	0.490-1.705		4000/F(KHz	:)	3		
	1.705-30	3		30			
	30-88	/	00	3			
	88-216		50	3			
	216-960 Above 960		00		3		
	Above 960     500     3       In un-restricted bands: 68.2dBuV/m						
	For radiated emissions below 30MHz						
	Distance = 3m Computer						
Test setup:	EUT	Turn table	v Im		Pre - Amplifier Receiver		

	TECHNOLOGY Report No.: TCT241101E019
	30MHz to 1GHz
	EUT Antenna Tower EUT Antenna Turm 0.8m Im Table 0.8m Im
S.	Ground Plane Above 1GHz
	Horn Antenna Tower Horn Antenna Tower UTURNADIO Cround Reference Plane Test Roceiver
$\mathcal{D}$	1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table
5	<ul> <li>was rotated 360 degrees todetermine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> </ul>
Test Procedure:	4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading.
Test results:	<ul> <li>5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.</li> </ul>

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<sup>3.</sup>Measurement (dBµV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss – Pre-amplifier.

			М	odulation Type	: Band1				
			80	2.11a CH36:5	180MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBuV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10360	н	41.39	$(\mathbf{G})$	1.78	43.17	)	68.2		-25.03
15540	н	39.45		5.21	44.66		74	54	-9.34
	н								
10360	V	41.79		1.78	43.57		68.2		-24.63
15540	V	40.55		5.21	45.76		74	54	-8.24
	V								
			<u>_</u> .						
			80	02.11a CH40:52	200MHz				
requency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	н	40.72		1.83	42.55		68.2		-25.65
15600	н	39.42		5.23	44.65		74	54	-9.35
	н								
	Č.					2			
10400	V	41.02		1.83	42.85	5)	74	<u>Ц</u> С	-31.15
15600	v	40.03		5.23	45.26		74	54	-8.74
	V								
			80	)2.11a CH48:52	240MHz				
requency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	41.46		1.85	43.31	77	68.2	<u> Ko</u>	-24.89
15720	Н	40.36		5.25	45.61		74	54	-8.39

10480 V 44.68 42.83 ---1.85 ---68.2 ----23.52 V 15720 39.15 ---5.25 44.4 ---74 54 -9.6 V -------------------------------

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

┍┓ 诵测检测

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All modulation (802.11a, 802.11n) have been tested, only the worst case in 802.11a be reported.

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9.1. Test Specification			
Test Requirement:	FCC Part15 Sectio	n 15.407(g) &Part2 J S	Section 2.1055
Test Method:	ANSI C63.10:2020		
Limit:	band of operatio variation of 0 degre voltage, and for a v	rance shall be maintai n frequency over a ses to 45 degrees C at rariation in the primary % of the rated supply degrees C.	<ul> <li>temperature</li> <li>normal supply</li> <li>supply voltage</li> </ul>
		Temperature Cham	ber
Test Setup:	Spectrum Analyzer	EUT	
	The EUT was pla	AC/DC Power supply	
Test Procedure:	Turn the EUT on a analyzer. c. Turn the highest temperature (approximately 30 chamber to stabilize temperature chamber The test chamber degree C for a m	ered by nominal AC/E and couple its output e EUT off and set the of re specified. d. Allow min) for the tempe ze. e. Repeat step 2 a ber set to the lowest to r was allowed to sta- inimum of 30 minutes adjusted on the EUT uency record.	to a spectrum chamber to the sufficient time rature of the and 3 with the emperature. f abilize at +20 s. The supply
Fest Result:	PASS		

# Appendix A: Test Result of Conducted Test

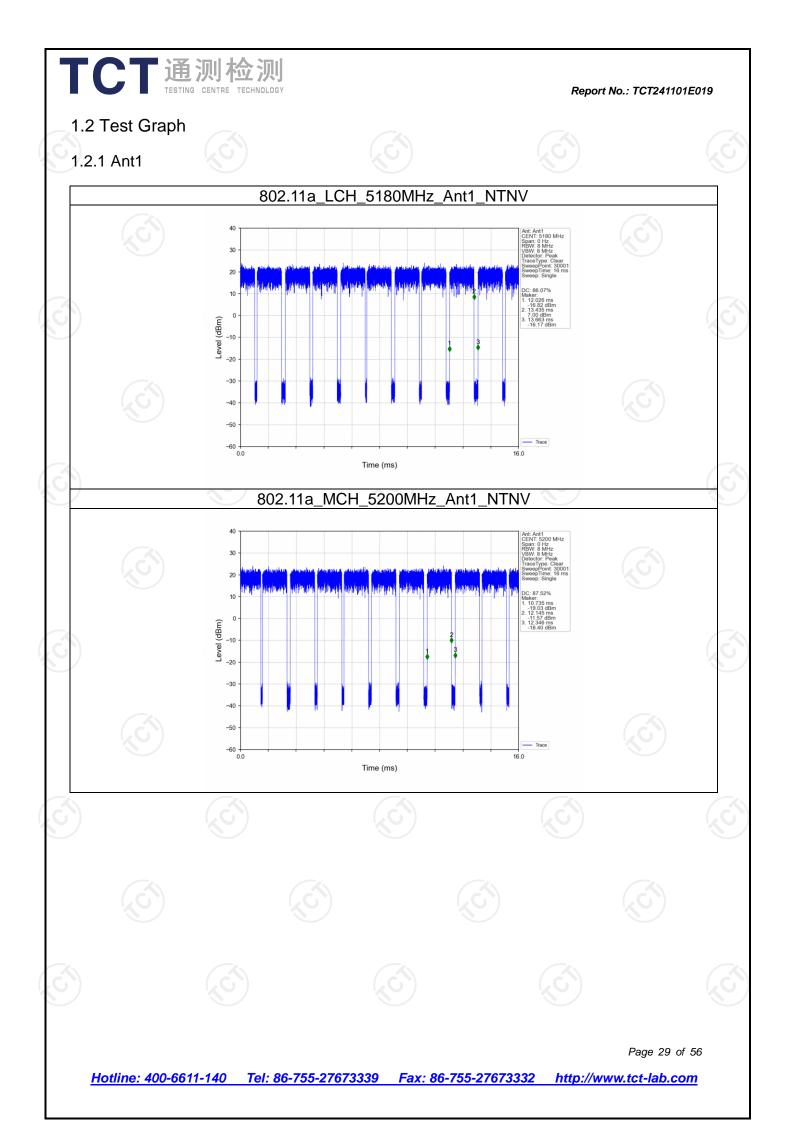
Report No.: TCT241101E019

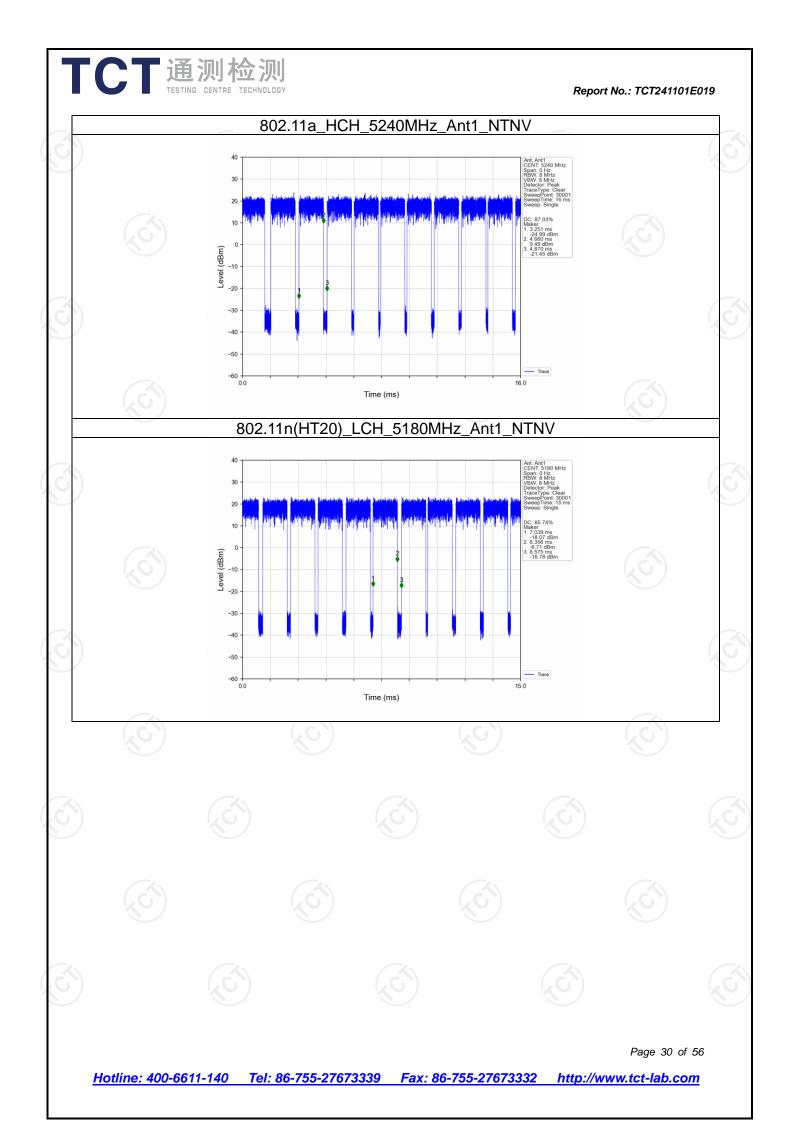
1. Duty Cycle

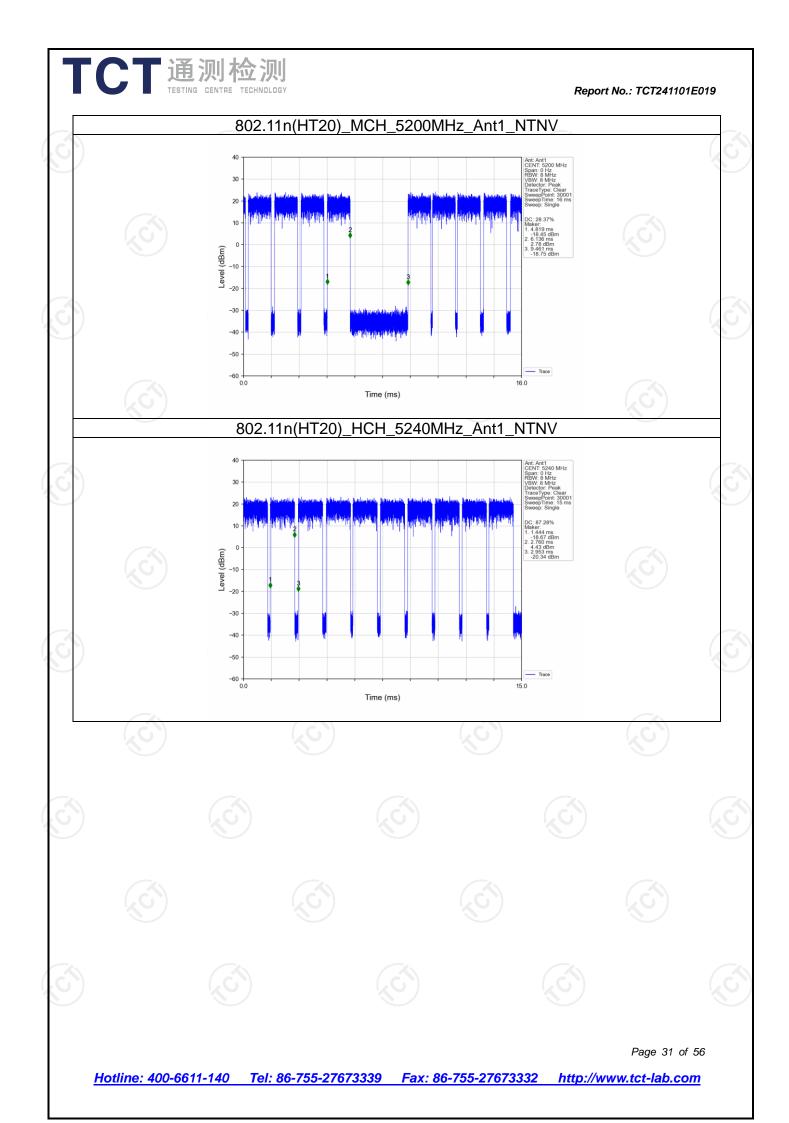
- 1.1 Test Result
- 1.1.1 Ant1

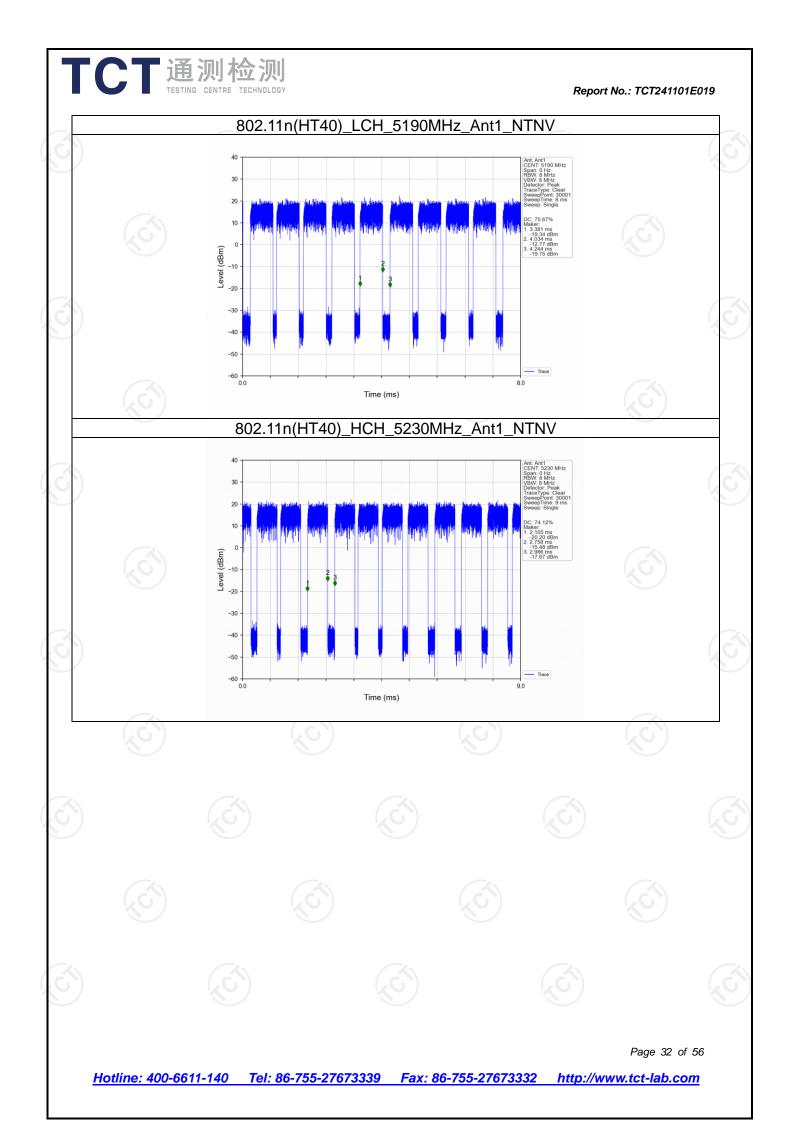
							(.C.)
				A	nt1		
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	1.409	1.637	86.07	0.65	7.77
802.11a	SISO	5200	1.410	1.611	87.52	0.58	4.10
		5240	1.409	1.619	87.03	0.60	6.24
002 11		5180	1.317	1.536	85.74	0.67	7.07
802.11n (HT20)	SISO	5200	1.317	4.642	28.37	5.47	65.04
(П120)		5240	1.317	1.509	87.28	0.59	4.34
802.11n	000	5190	0.653	0.863	75.67	1.21	10.83
(HT40)	SISO	5230	0.653	0.881	74.12	1.30	12.37

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## 2. Bandwidth

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### 2.1 Test Result

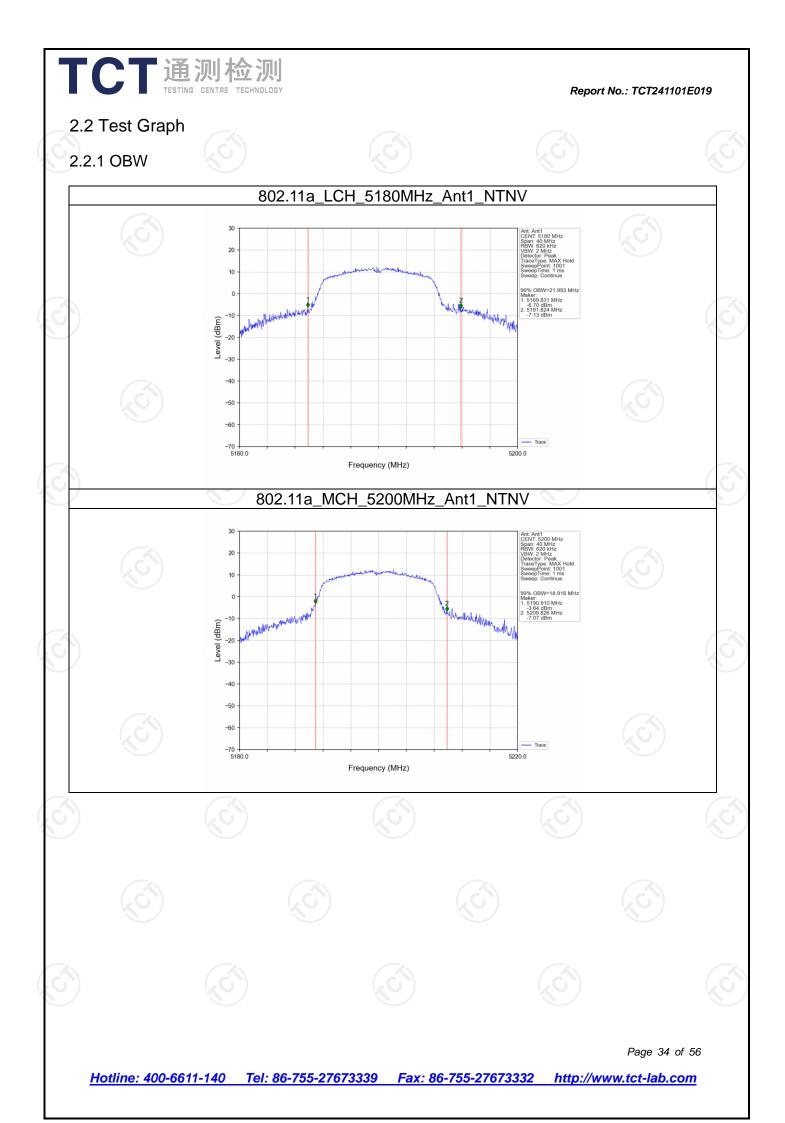
### 2.1.1 OBW

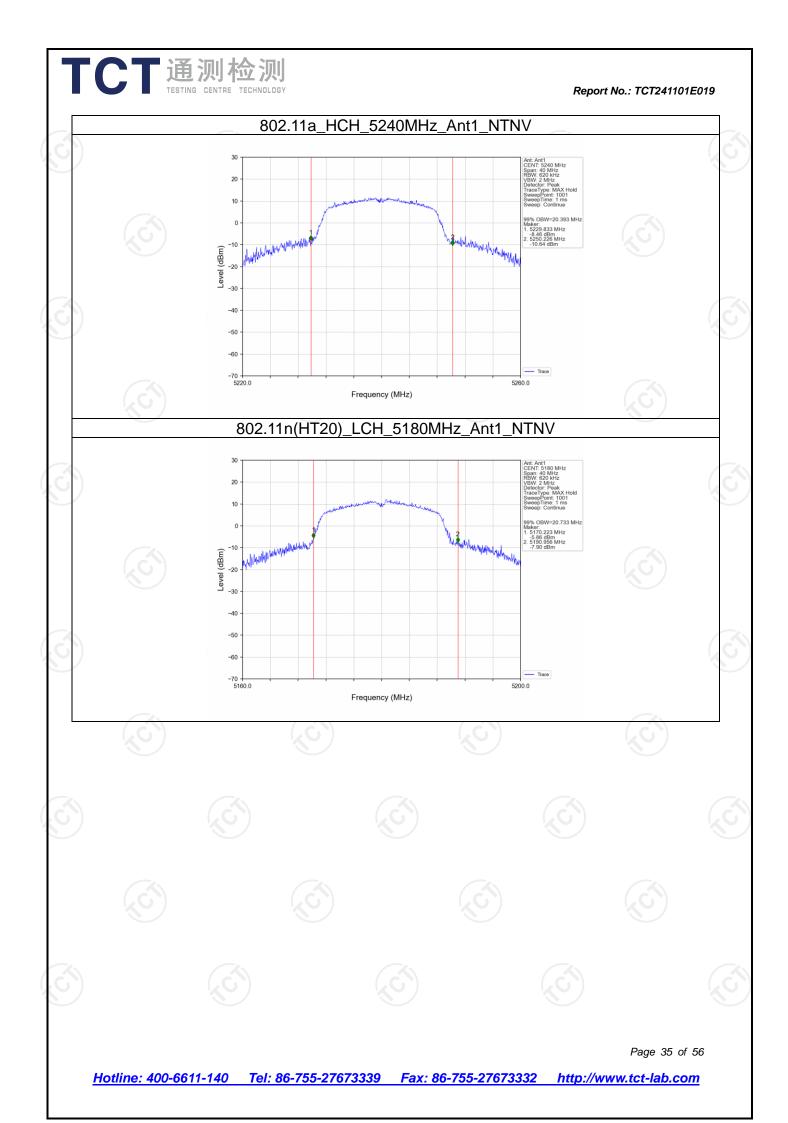
Mode	ТХ	Frequency	ANT	99% Occupied E	Verdict	
wode	Туре	(MHz)	ANT	Result Limit		
	802.11a SISO	5180	1	21.993	/	Pass
802.11a		5200	1	18.916		Pass
		5240	1 🔨	20.393		Pass
000 11	802.11n (HT20) SISO	5180	1	20.733	/	Pass
		5200	1	19.520	/	Pass
(1120)		5240	1	19.947	1	Pass
802.11r	802.11n (HT40) SISO	5190	1	37.446	/	Pass
(HT40)		5230	1	40.002	/	Pass

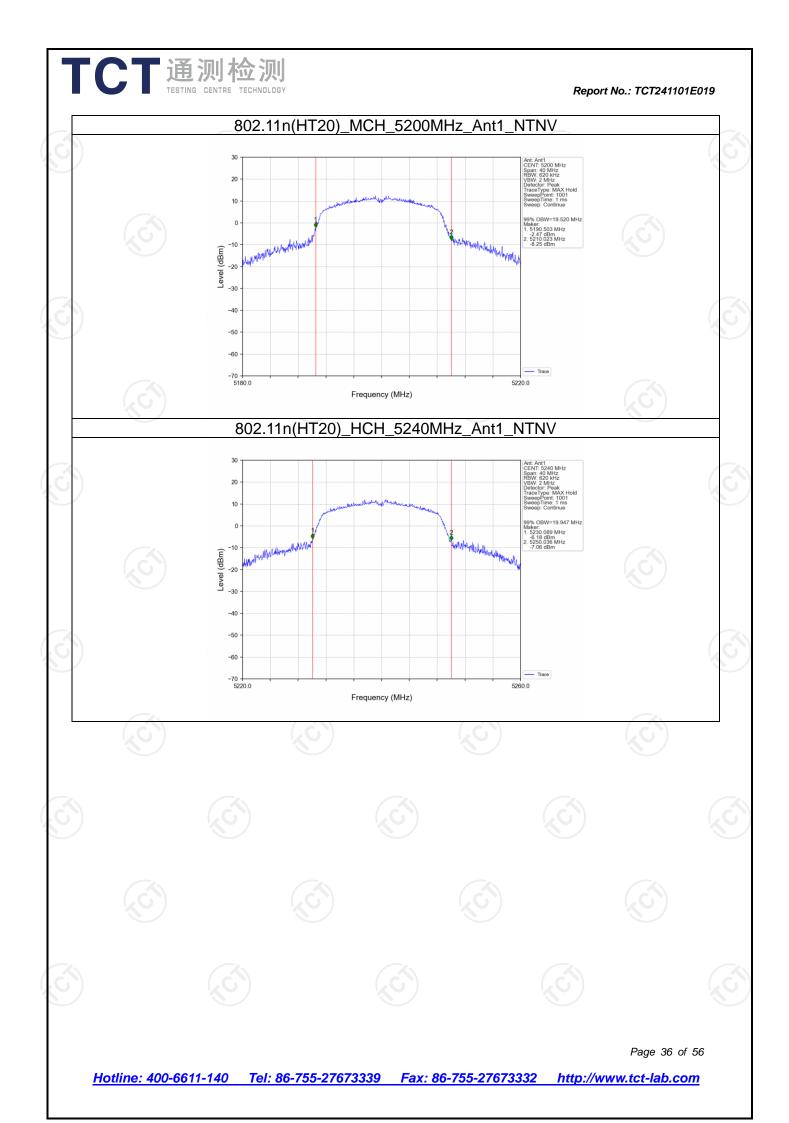
# 2.1.2 26dB BW

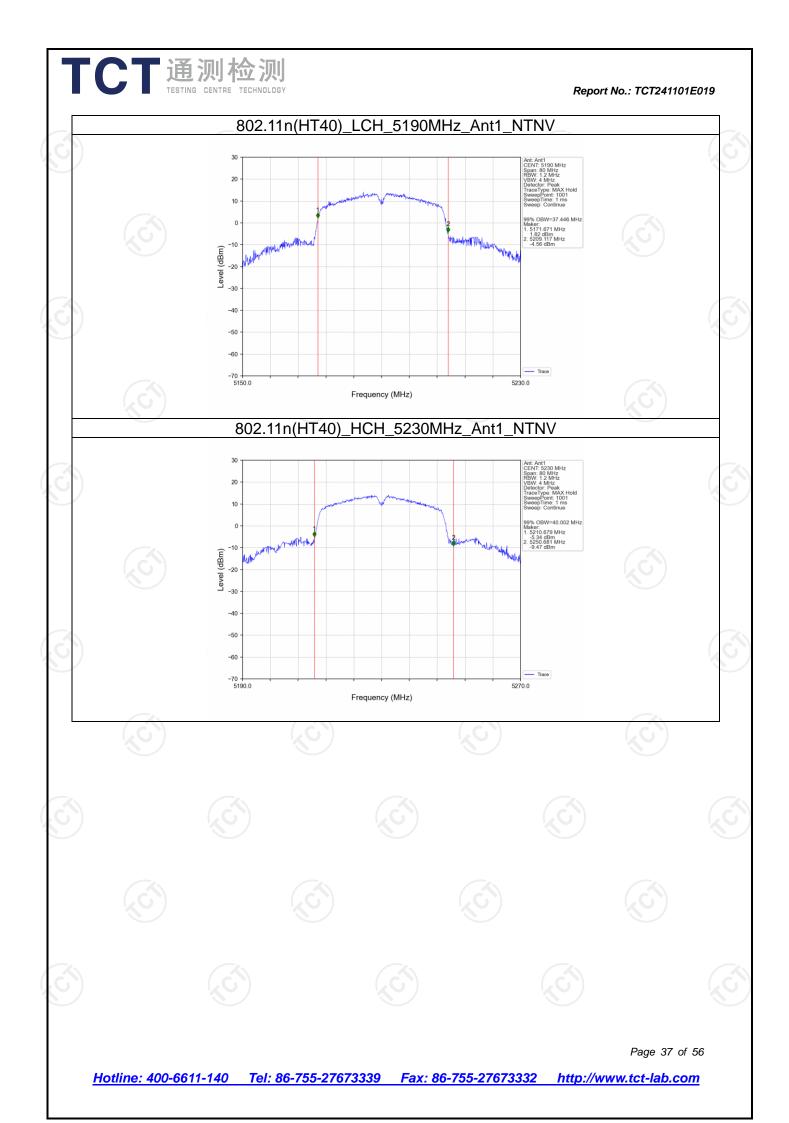
Mada	ТХ	Frequency	ANIT	26dB Band	26dB Bandwidth (MHz)		
Mode	Туре	(MHz) ANT		Result Limit		- Verdict	
		5180	1	33.805	/	Pass	
802.11a	SISO	5200	1	29.454	/	Pass	
KO )	KC)	5240	1	30.959	/	Pass	
000 11 m	802.11n (HT20) SISO	5180	1	31.537	/	Pass	
		5200	1	32.732	/	Pass	
([[]20)		5240	1	32.215		Pass	
802.11n	802.11n (HT40) SISO -	5190	(16)	66.609	(C)	Pass	
(HT40)		5230	1	68.084		Pass	

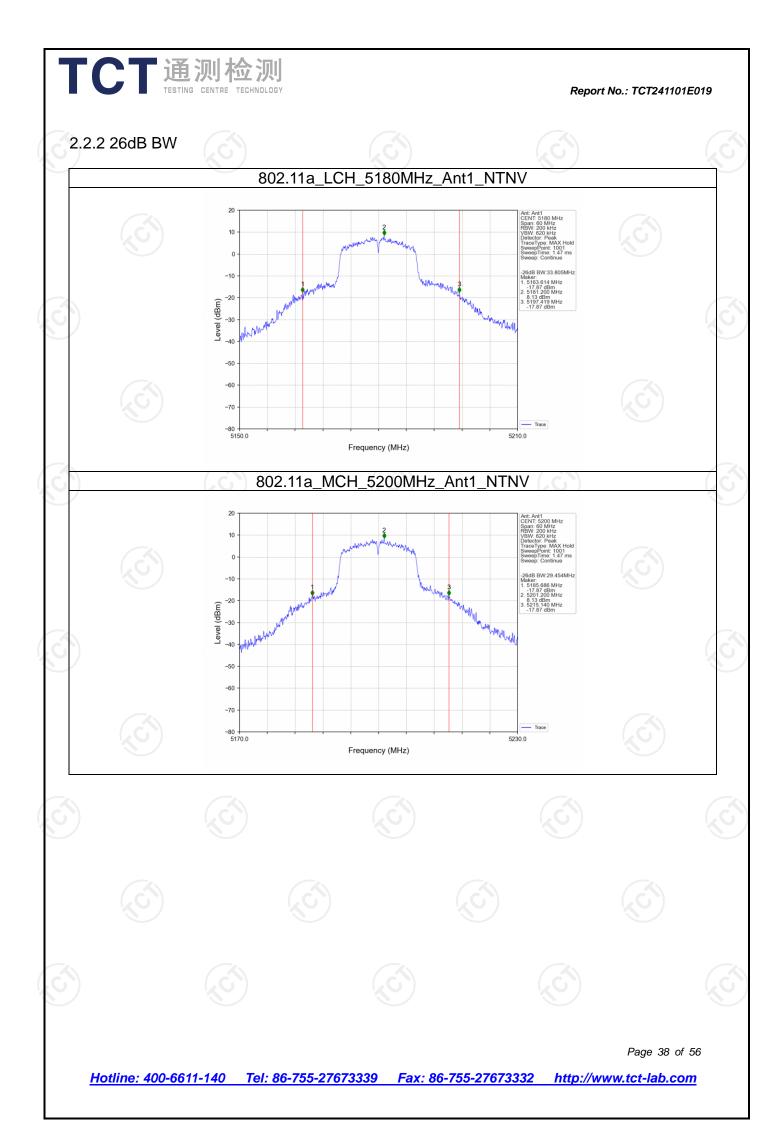


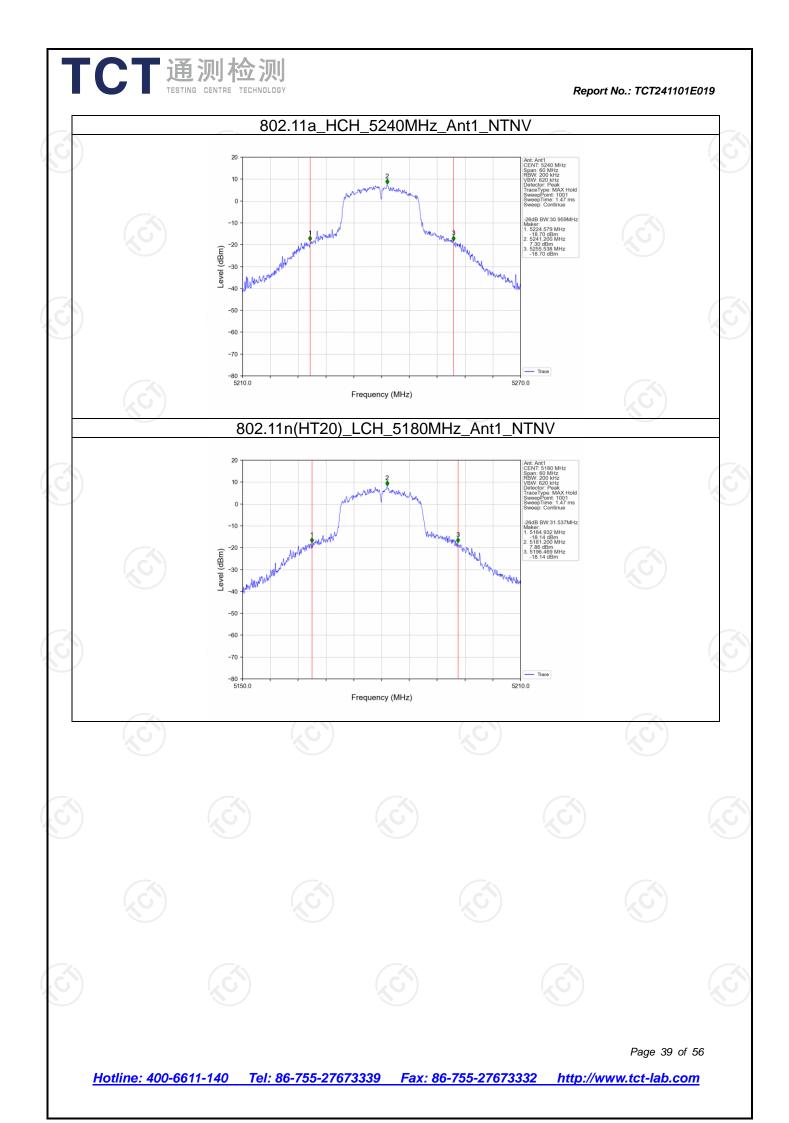


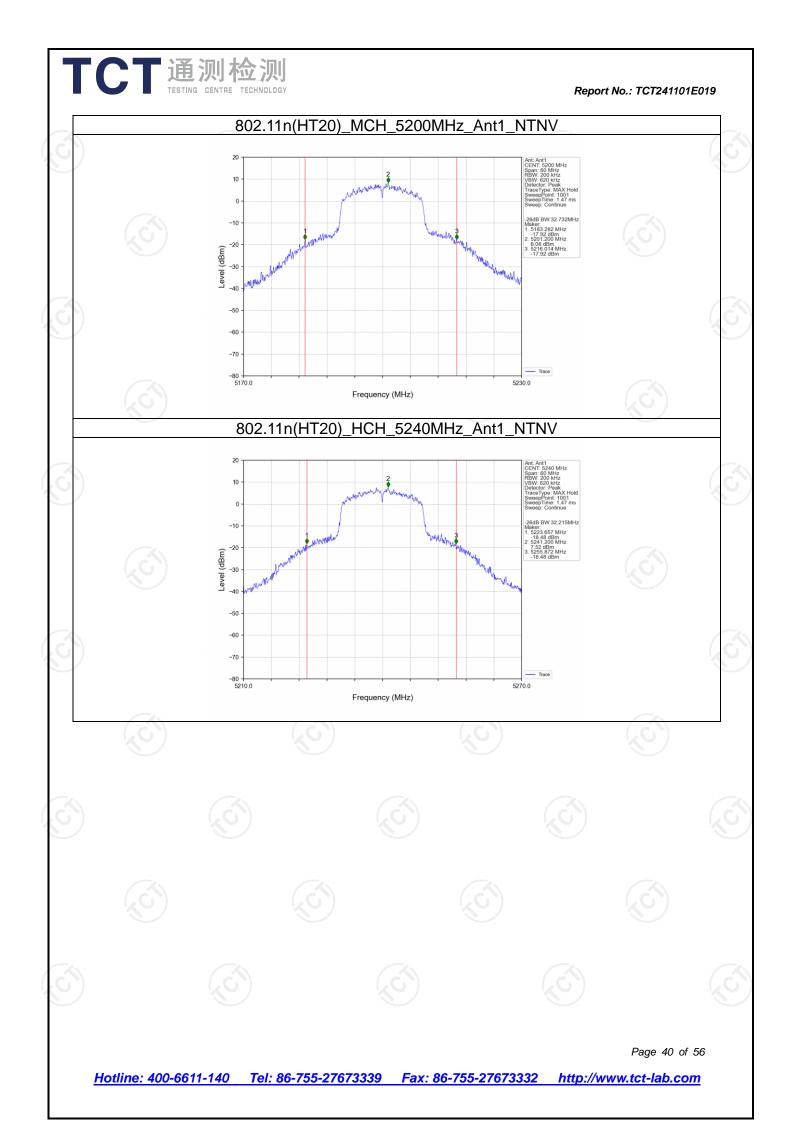


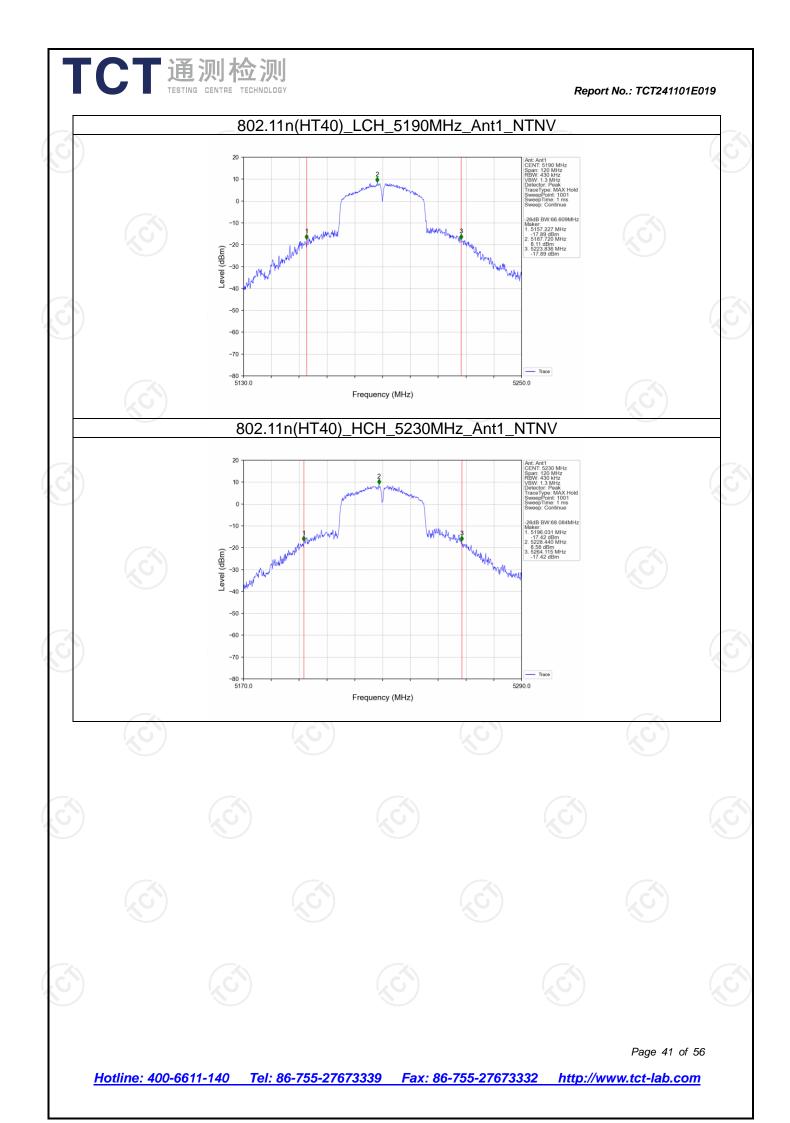












#### Report No.: TCT241101E019

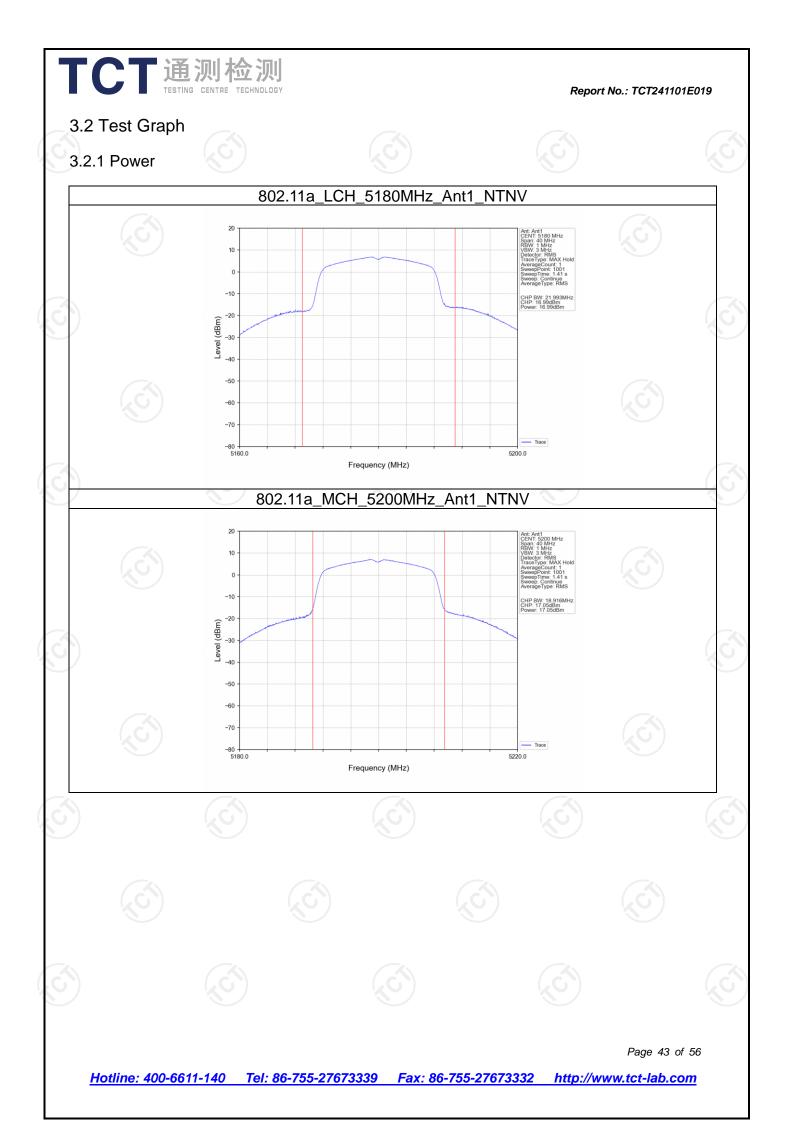
## 3. Maximum Conducted Output Power

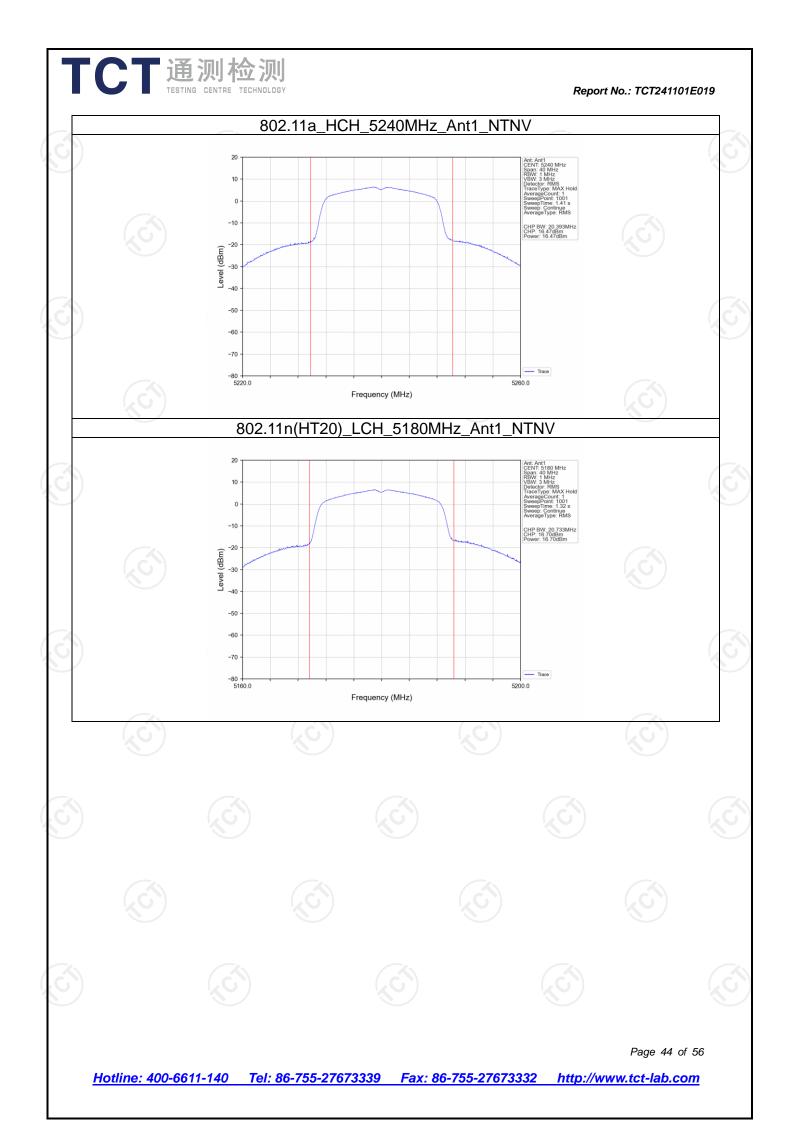
#### 3.1 Test Result

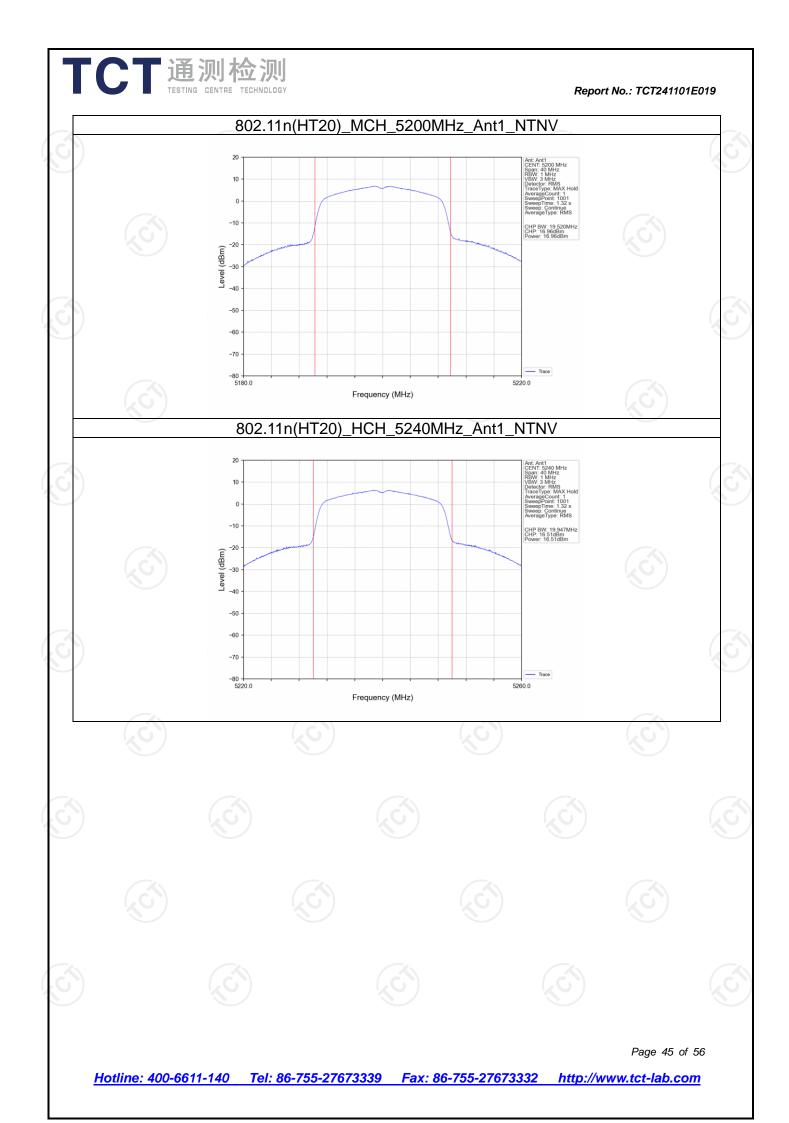
#### 3.1.1 Power

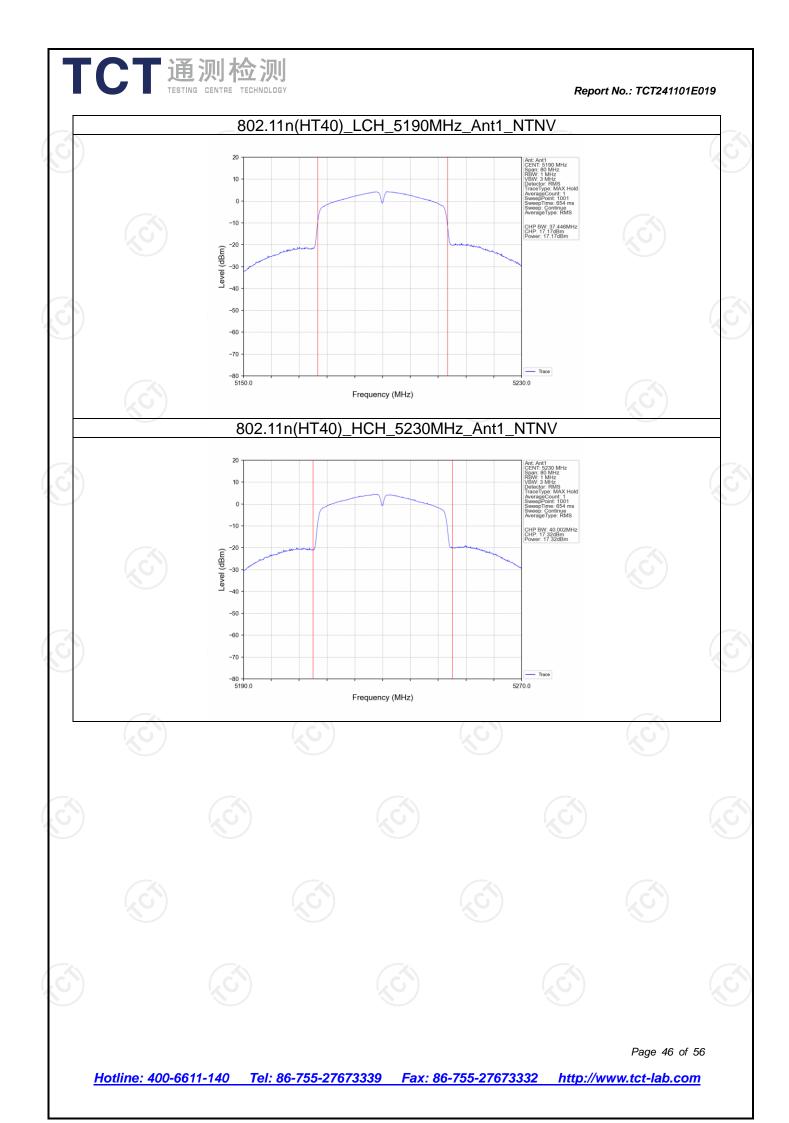
	Mode	TX	Frequency (MHz)	Maximum Average C Power (o	Verdict	
		Туре		ANT1	Limit	
		SISO	5180	16.99	<=23.98	Pass
	802.11a		5200	17.05	<=23.98	Pass
			5240	16.47	<=23.98	Pass
	002.11m	SISO	5180	16.70	<=23.98	Pass
	802.11n (HT20)		5200	16.96	<=23.98	Pass
			5240	16.51	<=23.98	Pass
	802.11n	802.11n 0100		17.17	<=23.98	Pass
	(HT40)	SISO	5230	17.32	<=23.98	Pass
	Note1: Ante	nna Gain:	Ant1: 2.00dBi;			
~						

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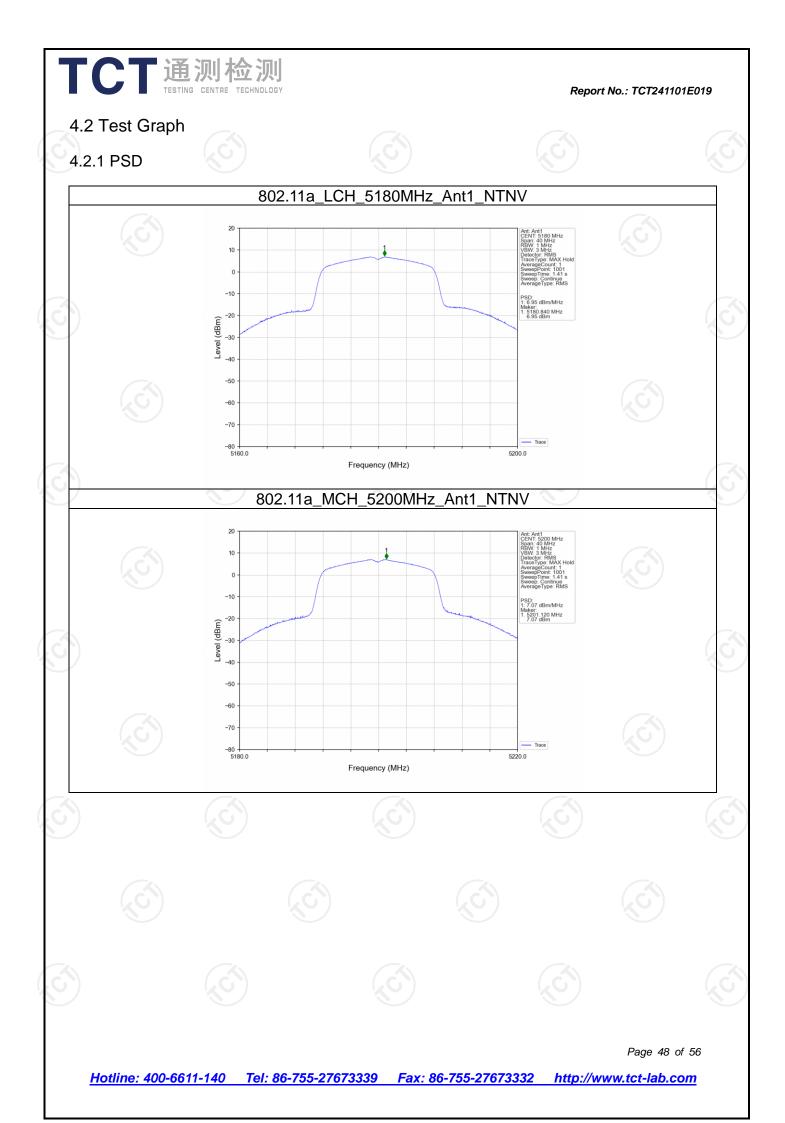


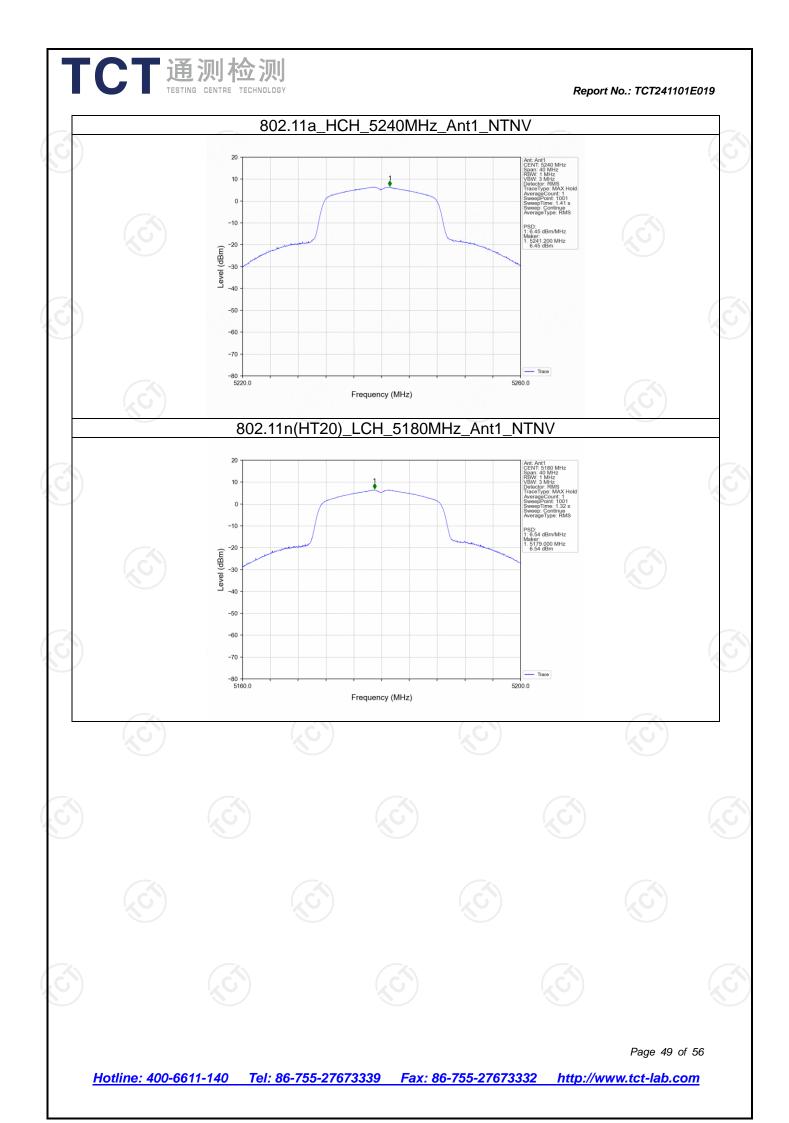
## 4. Maximum Power Spectral Density

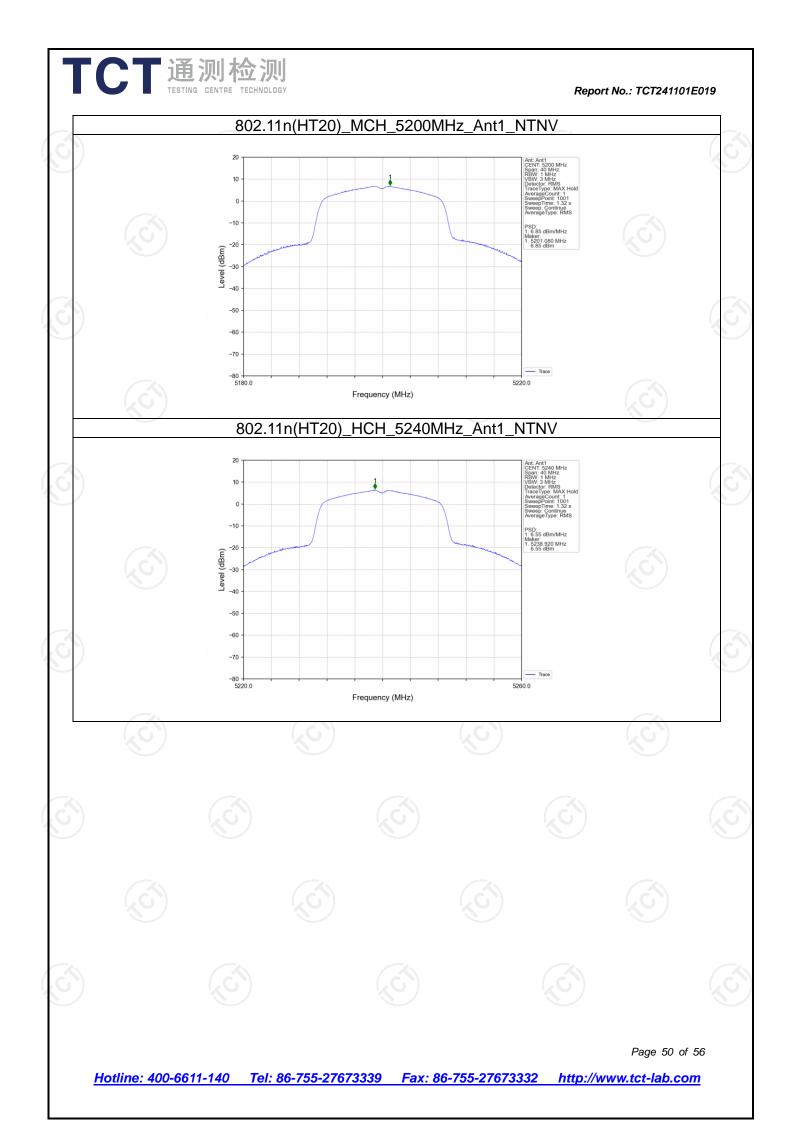
#### 4.1 Test Result

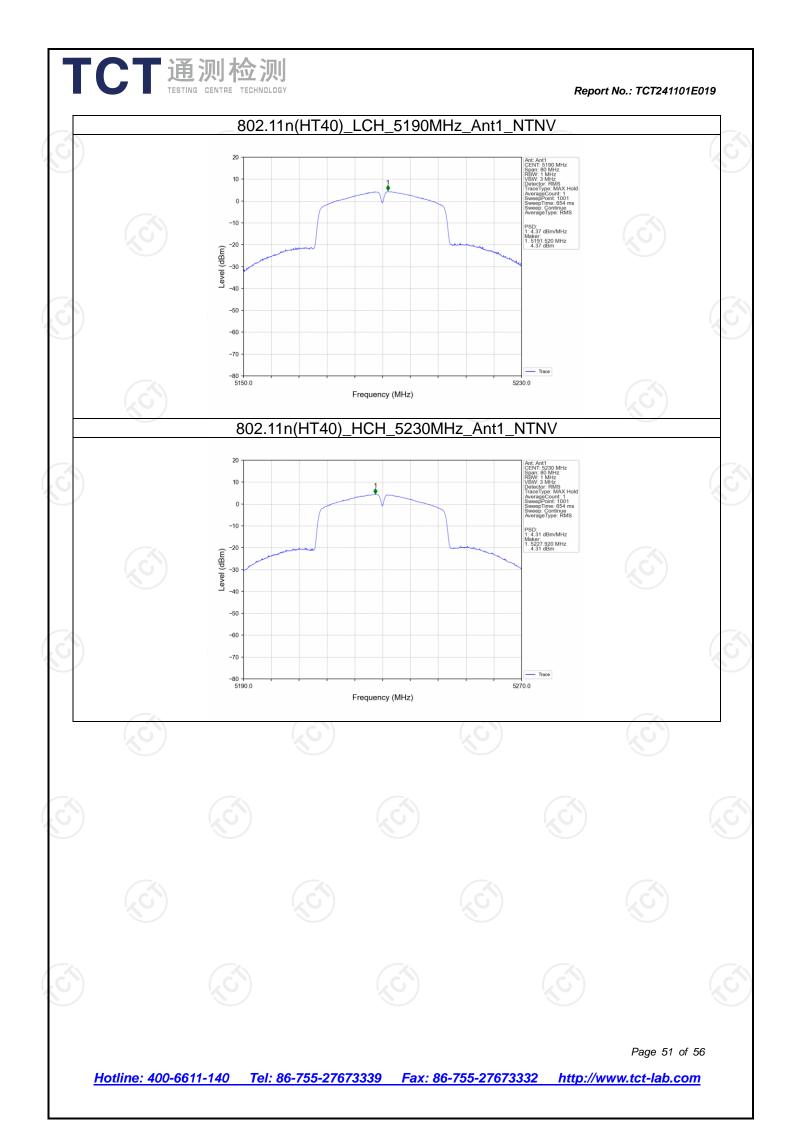
### 4.1.1 PSD

Mode		Frequency	Maximum PSD	Verdict	
	Туре	(MHz)	ANT1	Limit	Verdict
	SISO	5180	6.95	<=11	Pass
802.11a		5200	7.07	<=11	Pass
		5240	6.45	<=11	Pass
002 11p	SISO	5180	6.54	<=11	Pass
802.11n		5200	6.85	<=11	Pass
(HT20)		5240	6.55	<=11	Pass
802.11n		5190	4.37	<=11	Pass
(HT40)	SISO	5230	4.31	<=11	Pass









# 5. Frequency Stability

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#### 5.1 Test Result

### 5.1.1 Ant1

	)		$(\mathcal{L}\mathcal{G})$		$(\mathcal{S})$	(, ()	
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1 Voltage (VAC)	Measured Frequency	Limit (MHz)	Verdict
	турс		( 0)	102	(MHz) 5179.980	5150 to 5250	Pass
			20	120	5179.980	5250 5150 to 5250	Pass
				138	5179.980	5150 to 5250	Pass
			-30	120	5179.960	5150 to 5250	Pass
		S	-20	120	5179.960	5150 to 5250	Pass
		5180	-10	120	5179.980	5150 to 5250	Pass
			0	120	5179.960	5150 to 5250	Pass
			10	120	5179.940	5150 to 5250	Pass
	$(\mathbf{c}^{*})$	30	120	5179.920	5150 to 5250	Pass	
802.11a	SISO		40	120	5179.940	5150 to 5250	Pass
			50	120	5179.940	5150 to 5250	Pass
				102	5199.920	5150 to 5250	Pass
			20	120	5199.920	5150 to 5250	Pass
2				138	5199.960	5150 to 5250	Pass
		5200	-30	120	5199.940	5150 to 5250	Pass
			-20	120	5199.900	5150 to 5250	Pass
			-10	120	5199.920	5150 to 5250	Pass
			0	120	5199.940	5150 to 5250	Pass
			10	120	5199.920	5150 to	Pass

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<b>TCT</b>	G CENTRE TECHNOL	OGY			Report No.: TCT	241101E019
					5250	
3		30	120	5199.940	5150 to 5250	Pass
		40	120	5199.920	5150 to 5250	Pass
		50	120	5200.000	5150 to 5250	Pass
		S)	102	5239.920	5150 to 5250	Pass
_		20	120	5239.880	5150 to 5250	Pass
ý)	$\langle \mathcal{O} \rangle$		138	5239.940	5150 to 5250	Pass
		-30	120	5239.920	5150 to 5250	Pass
		-20	120	5239.900	5150 to 5250	Pass
	5240	-10	120	5239.940	5150 to 5250	Pass
3	$(\mathbf{c}^{\mathbf{A}})$	0	120	5239.900	5150 to 5250	Pass
		10	120	5239.920	5150 to 5250	Pass
		30	120	5239.900	5150 to 5250	Pass
		40	120	5239.940	5150 to 5250	Pass
		50	120	5239.920	5150 to 5250	Pass
	$\langle \mathcal{S} \rangle$		102	5179.960	5150 to 5250	Pass
		20	120	5179.940	5150 to 5250	Pass
			138	5179.920	5150 to 5250	Pass
		-30	120	5179.920	5150 to 5250	Pass
802.11n	<b>E100</b>	-20	120	5179.940	5150 to 5250	Pass
(HT20) SISO	5180	-10	120	5179.920	5150 to 5250	Pass
		0	120	5179.920	5150 to 5250	Pass
		10	120	5179.960	5150 to 5250	Pass
		30	120	5179.940	5150 to 5250	Pass
	KC)	40	120	5179.940	5150 to 5250	Pass

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		CENTRE TECHNOL	.OGY			Report No.: TCT	241101E019
			50	120	5179.920	5150 to 5250	Pass
$\mathbf{C}$				102	5199.920	5150 to 5250	Pass
			20	120	5199.920	5150 to 5250	Pass
				138	5200.000	5150 to 5250	Pass
			-30	120	5199.940	5150 to 5250	Pass
3			-20	120	5199.940	5150 to 5250	Pass
		5200	-10	120	5199.920	5150 to 5250	Pass
			0	120	5199.920	5150 to 5250	Pass
			10	120	5199.920	5150 to 5250	Pass
			30	120	5199.920	5150 to 5250	Pass
			40	120	5199.960	5150 to 5250	Pass
	_		50	120	5199.920	5150 to 5250	Pass
				102	5239.920	5150 to 5250	Pass
			20	120	5239.900	5150 to 5250	Pass
3				138	5239.880	5150 to 5250	Pass
			-30	120	5239.920	5150 to 5250	Pass
			-20	120	5239.920	5150 to 5250	Pass
		5240	-10	120	5239.920	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass
			10	120	5239.960	5150 to 5250	Pass
			30	120	5239.920	5150 to 5250	Pass
	$\langle \mathcal{G} \rangle$		40	120	5239.920	5150 to 5250	Pass
			50	120	5239.920	5150 to 5250	Pass
	2.11n T40) SISO	5190	20	102	5190.000	5150 to 5250	Pass
- (1)				120	5189.960	5150 to	Pass

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		50	120	5229.880	5150 to 5250	Pass
3	$(c^{\prime})$	40	120	5229.960	5150 to 5250	Pass
		30	120	5229.960	5150 to 5250	Pass
		10	120	5229.800	5150 to 5250	Pass
		0	120	5229.920	5150 to 5250	Pass
	5230	-10	120	5229.960	5150 to 5250	Pass
_		-20	120	5229.920	5150 to 5250	Pass
		-30	120	5230.000	5150 to 5250	Pass
			138	5229.880	5150 to 5250	Pass
		20	120	5229.920	5150 to 5250	Pass
3	G		102	5230.000	5150 to 5250	Pass
		50	120	5190.040	5150 to 5250	Pass
		40	120	5190.040	5150 to 5250	Pass
		30	120	5189.960	5150 to 5250	Pass
		10	120	5190.040	5150 to 5250	Pass
		0	120	5190.000	5150 to 5250	Pass
		-10	120	5190.000	5150 to 5250	Pass
		-20	120	5190.000	5150 to 5250	Pass
		-30	120	5189.960	5150 to 5250	Pass
			138	5190.080	5150 to 5250	Pass
					Report No.: TCT 5250	2411012010

