	<b>TEST REPO</b>	RT			
		- ~ -			
Test Report No:	2AQRM-A65L				
	TCT241008E051				
Date of issue:	Nov. 20, 2024	lov. 20, 2024			
Testing laboratory::	SHENZHEN TONGCE TEST	ING LAB			
Testing location/ address:		ctory Renshan Industrial Zone, Fuha henzhen, Guangdong, 518103,			
Applicant's name: :	FOXX Development Inc.				
Address:	3480 Preston Ridge Road, S	uite500, Alpharetta, GA 30005, USA			
Manufacturer's name :	FOXX Development Inc.				
Address:	3480 Preston Ridge Road, S	uite500, Alpharetta, GA 30005, USA			
Standard(s) :	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020				
Product Name:	Smart Phone				
Frade Mark :	FOXXD, FOXX, MIRO				
Model/Type reference :	A65L	$\mathcal{I}$			
Rating(s):	Rechargeable Li-ion Battery Power Adapter: Model: Foxx-11 Input: AC 100-240V, 50/60Hz Output: DC 5V, 1000mA				
Date of receipt of test item	Oct. 08, 2024	$\tilde{\mathcal{S}}$			
Date (s) of performance of est:	Oct. 08, 2024 ~ Nov. 18, 202	4			
Fested by (+signature) :	Rleo LIU	Pres Un TONGCE TO			
Check by (+signature) :	Beryl ZHAO				
Approved by (+signature):	Tomsin	Jomsm 43 34			

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**1. General Product Information** 

## 1.1. EUT description

Product Name:	Smart Phone	
Model/Type reference:	A65L	
Sample Number:	TCT241008E051-0101	
Bluetooth Version:	V4.2 (This report is for BDR+EDR)	
Operation Frequency:	2402MHz~2480MHz	
Transfer Rate:	1/2/3 Mbits/s	
Number of Channel:	79	
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK	
Modulation Technology:	FHSS	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-1.45dBi	
Rating(s):	Rechargeable Li-ion Battery DC 4.35V Power Adapter: Model: Foxx-11 Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5V, 1000mA	

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. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
<b>G</b> )1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz 🔾
<u> </u>						·	
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		-
Remark: modulatio	Channel 0, 3 on mode.	89 & 78 ha	ave been te	sted for G	FSK, π/4-D	QPSK, 8	DPSK

Report No.: TCT241008E051



# 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)(1)	PASS
20dB Occupied Bandwidth	§15.247 (a)(1)	PASS
Carrier Frequencies Separation	§15.247 (a)(1)	PASS
Hopping Channel Number	§15.247 (a)(1)	PASS
Dwell Time	§15.247 (a)(1)	PASS
Radiated Emission	§15.205/§15.209	PASS
Band Edge	§15.247(d)	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.

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# 3. General Information

## 3.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	24.8 °C	25.1 °C			
Humidity:	51 % RH	50 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:					
Software Information:	Engineering mode				

Software Information:	Engineering mode	
Power Level:	4 (2) (2)	

Test Mode:

	eep the EUT in continuous transmitting by select nannel and modulations with Fully-charged battery.
ch	nannel and modulations with Fully-charged battery.

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz 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 (Z axis) are shown in Test Results of the following pages.

DH1 DH3 DH5 all have been tested, only worse case DH1 is reported.

## 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
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, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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



## 5. Test Results and Measurement Data

## 5.1. 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 PIFA antenna which permanently attached, and the best case gain of the antenna is -1.45dBi.





## 5.2. Conducted Emission

#### 5.2.1. Test Specification

			(		
Test Requirement:	FCC Part15 C Section	15.207	No.		
Test Method:	ANSI C63.10:2020				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
	Frequency range	Limit (	dBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Referenc	e Plane			
Test Setup:	Image: stable line line line line line line line li				
Test Mode:	Charging + Transmitting Mode				
Test Procedure:	<ol> <li>The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>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).</li> <li>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 C63.10:2020 on conducted measurement.</li> </ol>				
	PASS				
Test Result:					



#### 5.2.2. Test Instruments

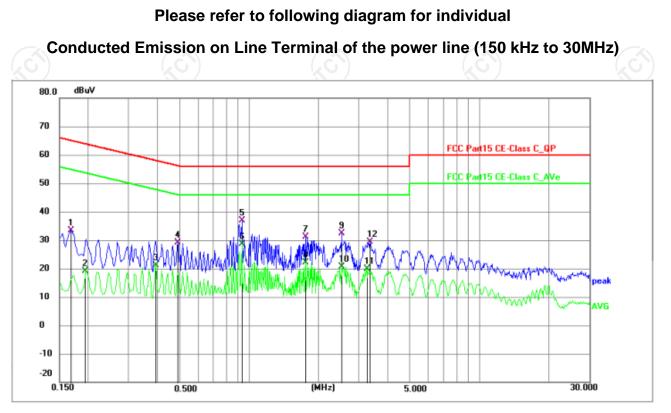
Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025		
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025		
Attenuator	N/A	10dB	164080	Jun. 26, 2025		
Line-5	тст	CE-05	/	Jun. 26, 2025		
EMI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



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#### 5.2.3. Test data

Report No.: TCT241008E051



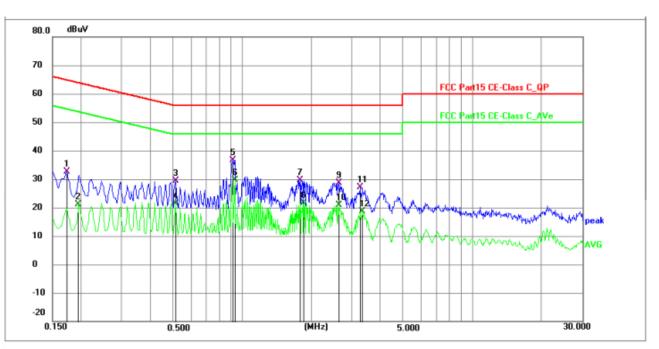
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	22.92	10.49	33.41	65.06	-31.65	QP	Ρ	
2	0.1949	8.66	10.55	19.21	53.83	-34.62	AVG	Р	
3	0.3930	10.57	10.57	21.14	48.00	-26.86	AVG	Ρ	
4	0.4873	18.60	10.57	29.17	56.21	-27.04	QP	Ρ	
5	0.9284	26.13	10.67	36.80	56.00	-19.20	QP	Ρ	
6 *	0.9284	18.04	10.67	28.71	46.00	-17.29	AVG	Ρ	
7	1.7610	20.38	10.67	31.05	56.00	-24.95	QP	Р	
8	1.7610	11.36	10.67	22.03	46.00	-23.97	AVG	Ρ	
9	2.5215	21.66	10.67	32.33	56.00	-23.67	QP	Р	
10	2.5215	10.06	10.67	20.73	46.00	-25.27	AVG	Ρ	
11	3.2550	9.14	10.65	19.79	46.00	-26.21	AVG	Ρ	
12	3.3540	18.71	10.64	29.35	56.00	-26.65	QP	Ρ	

#### Note:

Freq. = Emission frequency in MHz Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = LISN 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)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1723	22.03	10.49	32.52	64.85	-32.33	QP	Ρ	
2	0.1949	10.62	10.55	21.17	53.83	-32.66	AVG	Р	
3	0.5142	18.79	10.59	29.38	56.00	-26.62	QP	Р	
4	0.5142	10.89	10.59	21.48	46.00	-24.52	AVG	Р	
5	0.9150	25.97	10.67	36.64	56.00	-19.36	QP	Р	
6 *	0.9284	19.06	10.67	29.73	46.00	-16.27	AVG	Р	
7	1.7835	18.93	10.67	29.60	56.00	-26.40	QP	Р	
8	1.8552	11.04	10.67	21.71	46.00	-24.29	AVG	Р	
9	2.6385	18.04	10.67	28.71	56.00	-27.29	QP	Р	
10	2.6385	10.14	10.67	20.81	46.00	-25.19	AVG	Ρ	
11	3.2505	16.56	10.65	27.21	56.00	-28.79	QP	Ρ	
12	3.3450	7.87	10.65	18.52	46.00	-27.48	AVG	Ρ	

#### Note1:

Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = LISN 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.

#### Note2:

Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Lowest channel and 8DPSK) was submitted only.

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## 5.3. Conducted Output Power

#### 5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.					
Test Result:	PASS					

#### 5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/		



## 5.4. 20dB Occupy Bandwidth

#### 5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	N/A					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>					
Test Result:	PASS (S)					

#### 5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	$\sim$	, ~	/



## 5.5. Carrier Frequencies Separation

#### 5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.</li> </ol>

#### 5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/	/	/



## 5.6. Hopping Channel Number

#### 5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	KDB 558074 D01 v05r02
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> <li>The number of hopping frequency used is defined as the number of total channel.</li> <li>Record the measurement data in report.</li> </ol>
Test Result:	PASS

#### 5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	1	/	/

# 5.7. Dwell Time

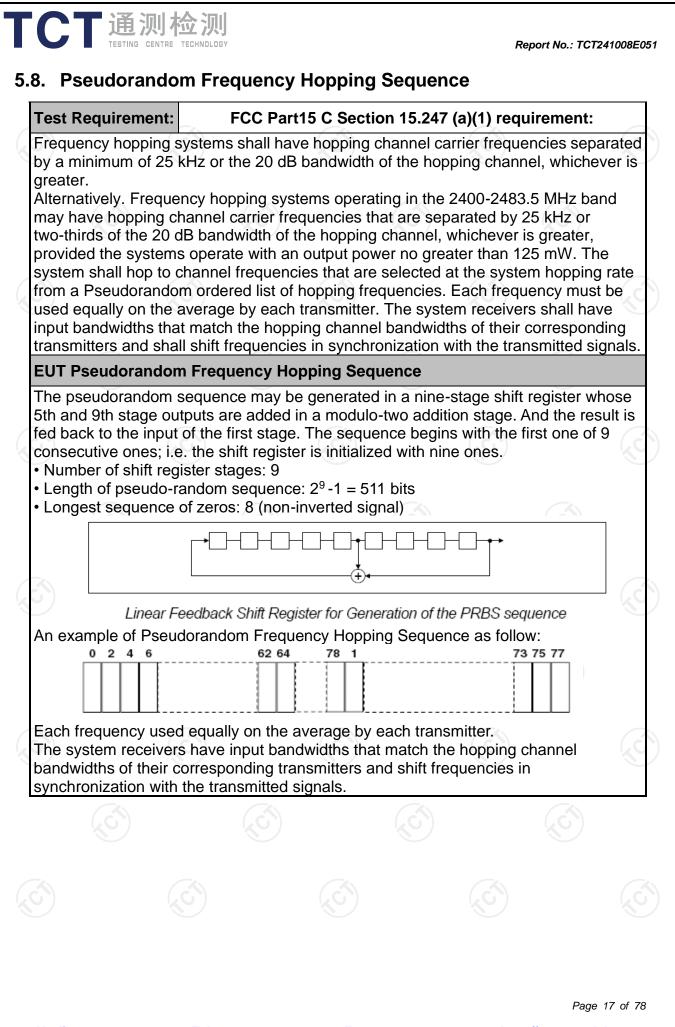
## 5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	The average time of occupancy on any channel shall no be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Hopping mode					
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>					
Test Result:	PASS					

#### 5.7.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/		

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## 5.9. Conducted Band Edge Measurement

#### 5.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

#### 5.9.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/		



## 5.10. Conducted Spurious Emission Measurement

#### 5.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test Result:	PASS

#### 5.10.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/		

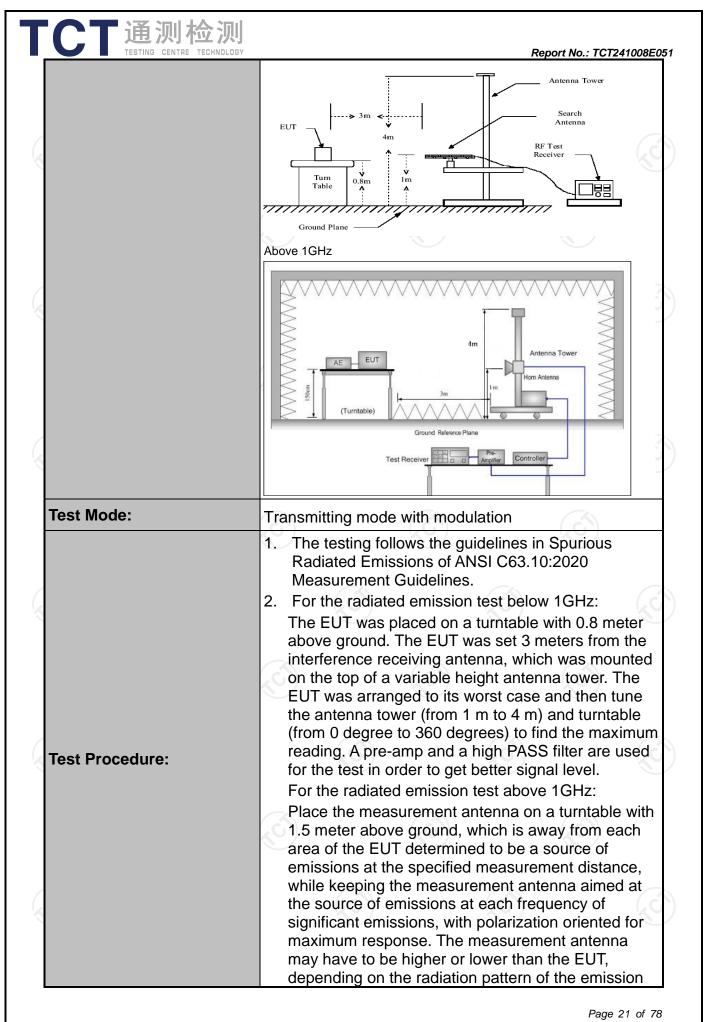


## 5.11. Radiated Spurious Emission Measurement

#### 5.11.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2020							
Frequency Range:	9 kHz to 25 0	SHz		6				
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal &	Vertical						
	Frequency	Detect	or	RBW	VBW		Remark	
	9kHz- 150kHz	Quasi-p		200Hz	1kHz	(	Quasi-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-p	eak	9kHz	30kHz		Quasi-peak Value	
	30MHz-1GHz	Quasi-p	eak	120KHz	300KHz	C	Quasi-peak Value	
	Above 1GHz	Above 1GHz Peak		1MHz	3MHz		Peak Value	
		Peak	ζ	1MHz	10Hz	Av	erage Value	
	Frequenc		(	Field Strer microvolts/r	neter)		asurement nce (meters	
	0.009-0.4			2400/F(K			300	
	0.490-1.7			24000/F(K	(Hz)		30	
	1.705-30			30		30		
	30-88			100			3	
Limit:	88-216			150 200			3	
Linit.	Above 96	216-960			500			
	Above 300						3	
	Frequency (r		Field Strength (microvolts/meter)		Measurer Distanc			
			500		3	Average		
	Above 1GHz		50				Peak	
Test setup:	F EUT	tance = 3m	und Plar	) 		Compu mplifier		
	30MHz to 1GHz							
			_					



Hotline: 400-6611-140

Tel: 86-755-27673339

	CENTRE TECHNOLOG	rece mea max ante restr abov 3. Set EU <sup>-</sup> 4. Use (1) (2)	= max hole For average correction 15.35(c). D	aximum sign ntenna elev emissions. T on for maxin inge of heig d or referen imum powe ontinuously. ng spectrum wide enoug eing measu 20 kHz for ; VBW≥RB outo; Detect d for peak ge measure factor meth	mission so nal. The f vation sha The meas num emis ghts of fro nce grour er setting n analyze gh to fully red; f < 1 GH2 W; tor function ment: use nod per On time/1	inal all be that surement ssions sha om 1 m to nd plane. and enal r settings: capture th z, RBW=1 on = peak; e duty cyc 100 millise -1*LNn-1+	which all be 4 m ole the ne MHz Trace le
		J.	Where N1 length of ty Average E Level + 20 Corrected F	•	s, etc. vel = Pea ycle) itenna Fa	ak Emissic actor + Cal	on ble
Test results:		PASS	Where N1 length of ty Average E Level + 20	ype 1 pulse mission Le *log(Duty c Reading: An	s, etc. vel = Pea ycle) itenna Fa	ak Emissic actor + Cal	on ble
Test results:		PASS	Where N1 length of ty Average E Level + 20 Corrected F	ype 1 pulse mission Le *log(Duty c Reading: An	s, etc. vel = Pea ycle) itenna Fa	ak Emissic actor + Cal	on ble
Test results:		PASS	Where N1 length of ty Average E Level + 20 Corrected F	ype 1 pulse mission Le *log(Duty c Reading: An	s, etc. vel = Pea ycle) itenna Fa	ak Emissic actor + Cal	on ble
Test results:		PASS	Where N1 length of ty Average E Level + 20 Corrected F	ype 1 pulse mission Le *log(Duty c Reading: An	s, etc. vel = Pea ycle) itenna Fa	ak Emissic actor + Cal	on ble



#### 5.11.2. Test Instruments

	Radiated En	nission Test Site	e (966)	
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
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	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	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M		Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D		Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	K)	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM		
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	

#### 5.11.3. Test Data

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Please refer to following diagram for individual



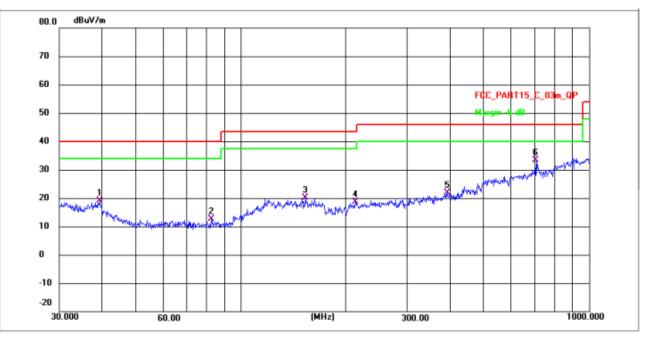
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.8785	28.57	-9.65	18.92	40.00	-21.08	QP	Р
2	108.6470	38.20	-22.39	15.81	43.50	-27.69	QP	Р
3	150.2741	42.18	-22.01	20.17	43.50	-23.33	QP	Р
4	214.8907	40.50	-21.39	19.11	43.50	-24.39	QP	Р
5	394.8545	42.78	-19.88	22.90	46.00	-23.10	QP	Р
6 *	653.0858	47.84	-17.95	29.89	46.00	-16.11	QP	Р

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#### Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.1616	28.66	-9.64	19.02	40.00	-20.98	QP	Р
2	82.3588	35.28	-22.74	12.54	40.00	-27.46	QP	Р
3	153.2004	42.08	-21.98	20.10	43.50	-23.40	QP	Р
4	213.7634	40.00	-21.39	18.61	43.50	-24.89	QP	Р
5	390.7226	41.79	-19.91	21.88	46.00	-24.12	QP	Р
6 *	705.4619	50.90	-17.63	33.27	46.00	-12.73	QP	Р
S)				K.	)	6		KC)

**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and 8DPSK) was submitted only.

- Freq. = Emission frequency in MHz Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB) Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
  - $Limit (dB\mu V/m) = Limit stated in standard$
  - $Over (dB) = Measurement (dB\mu V/m) Limits (dB\mu V/m)$
  - \* is meaning the worst frequency has been tested in the test frequency range.

	Test Cha	nnel: Lov	Test Mode west channe		ization: Ve	rtical	
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2310	65.37	-16.45	48.92	74	-25.08	Peak	Pass
2390	64.25	-15.86	48.39	74	-25.61	Peak	Pass
2400	65.38	-15.82	49.56	74	-24.44	Peak	Pass
$(\mathcal{O})$	Test Chan	nel: Low	est channel,	Test Polariz	ation: Hori	zontal	$(\mathbf{G})$
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2310	65.69	-16.45	49.24	74	-24.76	Peak	Pass
2390	64.57	-15.86	48.71	74	-25.29	Peak	Pass
2400	65.7	-15.82	49.88	74	-24.12	Peak	Pass
	Test Cha	nnel: Hig	hest channe	l, Test Polar	ization: Ve	rtical	$\langle \mathcal{O} \rangle$
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2483.5	66.75	-16.60	50.15	74	-23.85	Peak	Pass
2500	65.03	-16.45	48.58	74	-25.42	Peak	Pass
	Test Chan	nel: High	est channel,	Test Polariz	ation: Hor	izontal	
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
2483.5	66.57	-16.60	49.97	74	-24.03	Peak	Pass
2500	64.64	-16.45	48.19	74	-25.81	Peak	Pass

#### Test Result of Radiated Spurious at Band edges

**Note:** Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.

#### Above 1GHz

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Т

Modulation Typ	be: 8DPSK								
Low channel: 2	2402 MHz								
		Peak	AV	Correction	Emissio	on Level			Margin
Frequency(MHz)	Ant. Pol.H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	(dB)
4804	H	54.69		-9.51	45.18		74	54	-8.82
7206	СH	44.02	(	-1.41	42.61		74	54	-11.39
7	Н					/ <u></u>			
4804	V	54.48		-9.51	44.97		74	54	-9.03
7206	V	45.12		-1.41	43.71		74	54	-10.29
	V	)=					)		) :
Middle channel	ŀ 2441 M⊨	17				X			
	1. <b>2</b> 771 Wi				Emissio	on Level			Margin
Frequency(MHz)	Ant. Pol.H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	(dB)
4882	Н	53.28		-9.36	43.92	(	74	54	-10.08
7323	Н	43.99		-1.14	42.85	~	74	54	-11.15
	Н								
	-					X			
4882	<b>V</b>	53.73		-9.36	44.37	)	74	54	-9.63
7323	>	44.60		-1.14	43.46		74	54	-10.54
	V								
High channel: 2	2480 MHz	3		K C	)				KU
		Peak	AV	Correction	Emissio	on Level			Margin
Frequency(MHz)	Ant. Pol.H/V	reading (dBμV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	(dB)
4960	Н	55.35		-9.20	46.15	J	74	54	-7.85
7440	Н	44.93		-0.96	43.97		74	54	-10.03
	Н								
$(\mathcal{O})$		$(\mathcal{O})$		( <u>(</u>		(	$\mathcal{C}$		60
4960	V	54.30		-9.20	45.10		74	54	-8.90
7440	V	43.72		-0.96	42.76		74	54	-11.24
	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)

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.

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. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (8DPSK) was submitted only.

7. All the restriction bands are compliance with the limit of 15.209.

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## TCT通测检测 TESTING CENTRE TECHNOLOGY Appendix A: Test Result of Conducted Test

## 1. Bandwidth

#### 1.1 Test Result

1.1.1 OBW

Mode	TX	Frequency	Packet	ANT	99% Occupied Ba	Verdict	
Mode	Туре	(MHz)	Туре	ANT	Result	Limit	verdict
		2402	DH5	1	0.857		Pass
GFSK	SISO	2441	DH5	1	0.854	/	Pass
		2480	DH5	1	0.851	/	Pass
		2402	2DH5	1	1.207	/	Pass
Pi/4DQPSK	SISO	2441	2DH5	1	1.191		Pass
		2480	2DH5	× 1)	1.190		Pass
		2402	3DH5	1	1.207		Pass
8DPSK	SISO	2441	3DH5	1	1.193	/	Pass
		2480	3DH5	1	1.190	/	Pass

### 1.1.2 20dB BW

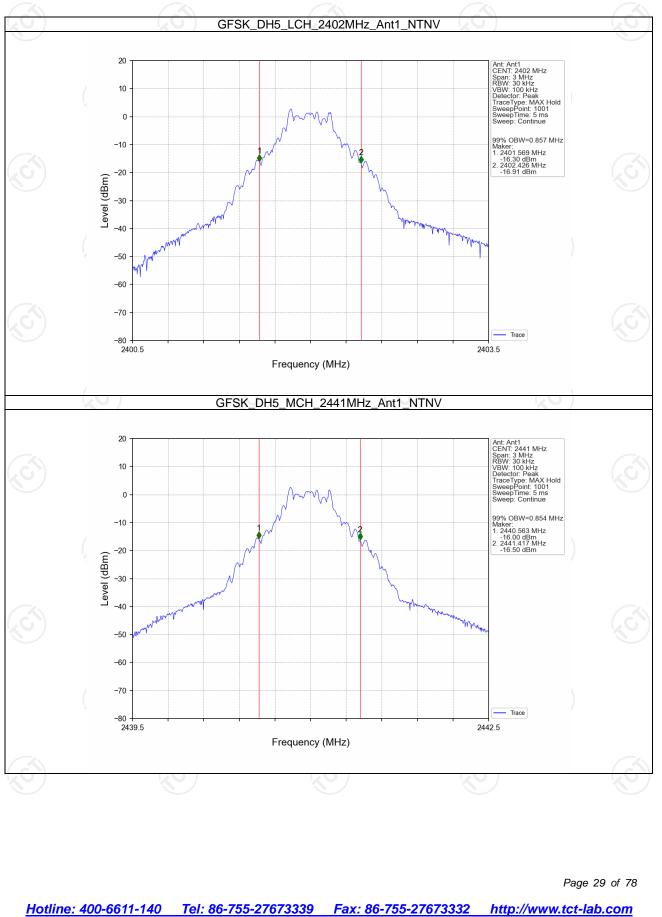
Mode	TX	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Vardiat
	Туре				Result	Limit	Verdict
GFSK	SISO	2402	DH5	1	0.948	/	Pass
		2441	DH5	1	0.944	/	Pass
		2480	DH5	1	0.943	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.321	/	Pass
		2441	2DH5	1	1.325	/	Pass
		2480	2DH5	1	1.315		Pass
8DPSK	SISO	2402	3DH5	1	1.301		Pass
		2441	3DH5	1	1.302	/	Pass
		2480	3DH5	1	1.301	/	Pass

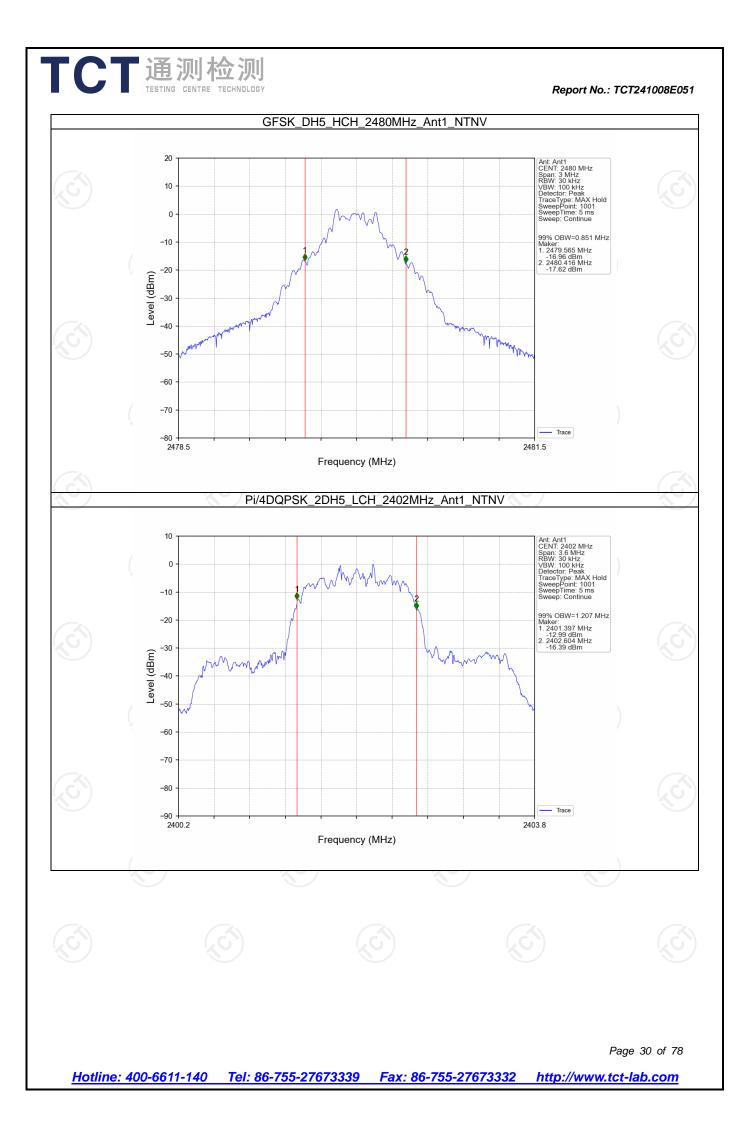
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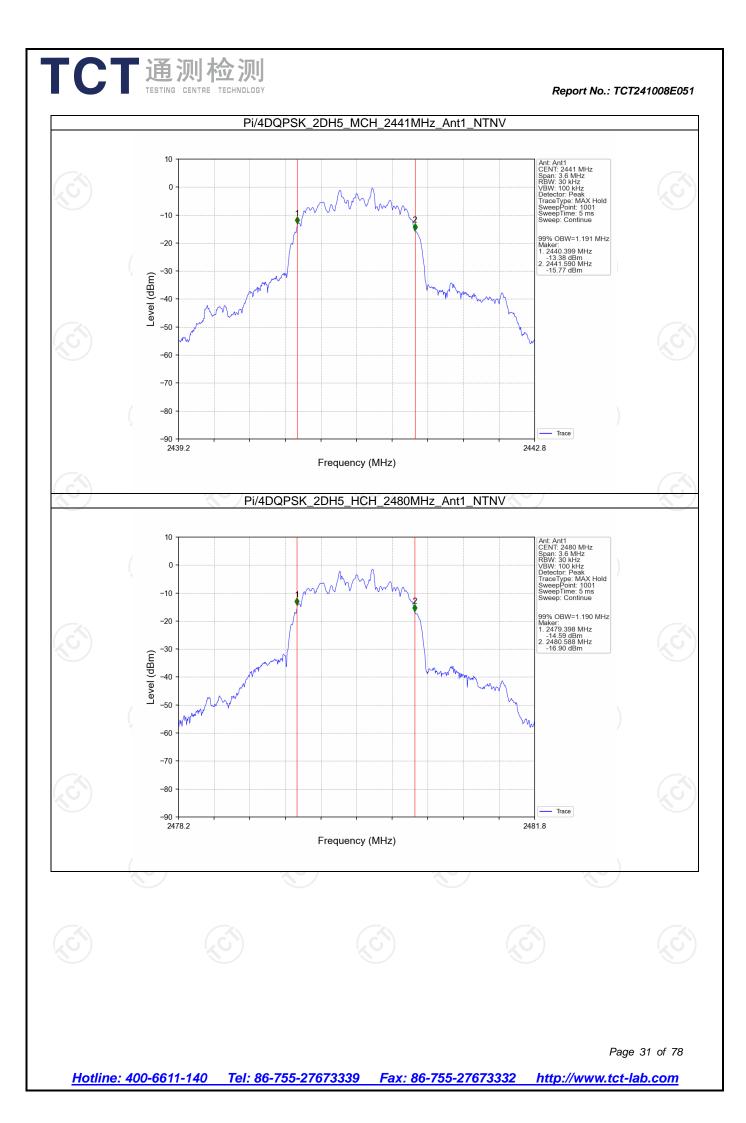
## 1.2 Test Graph

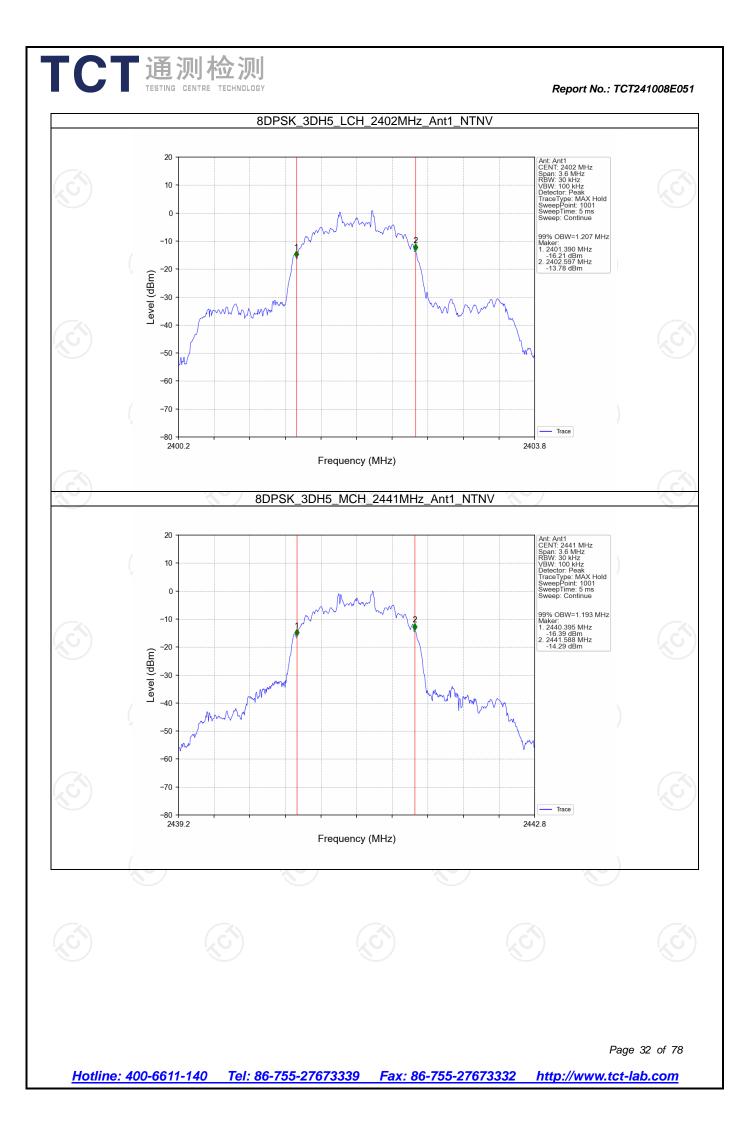
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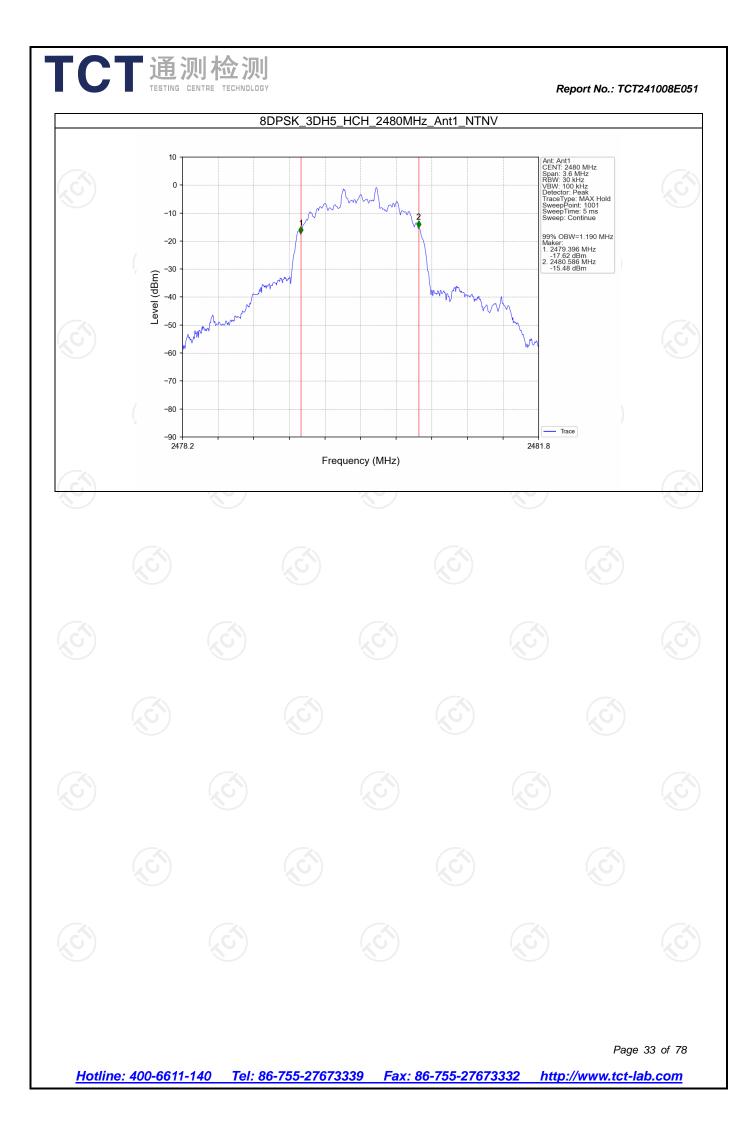
#### 1.2.1 OBW





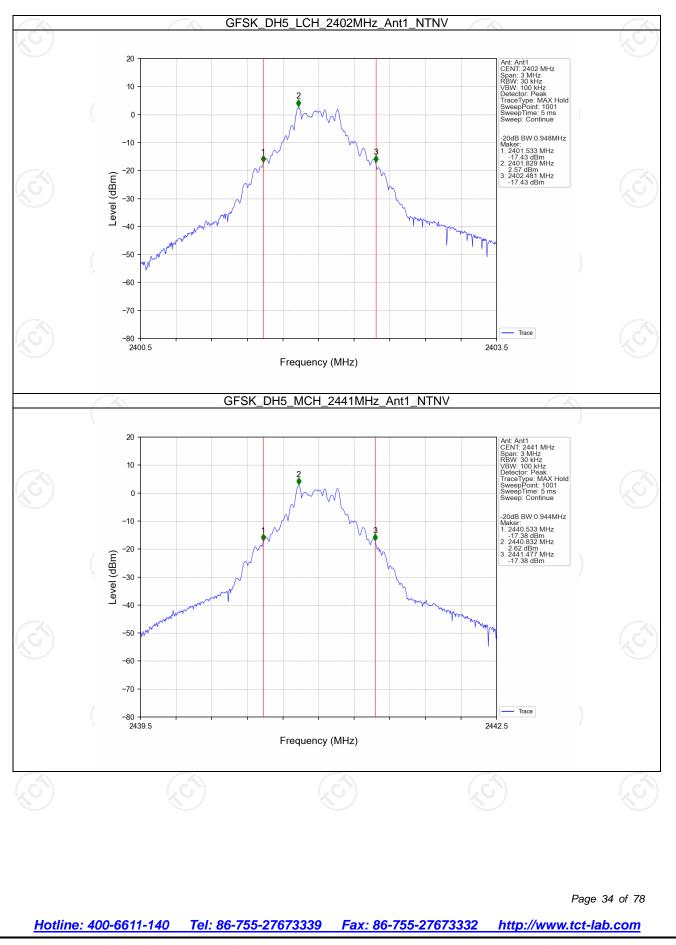


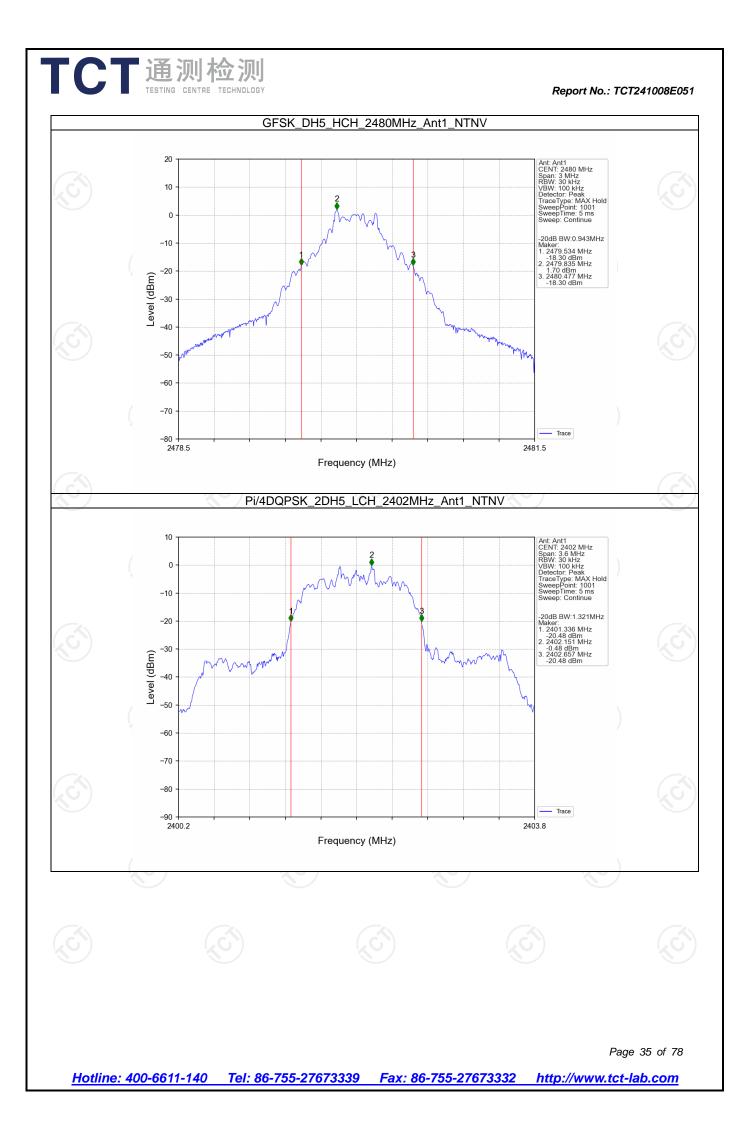


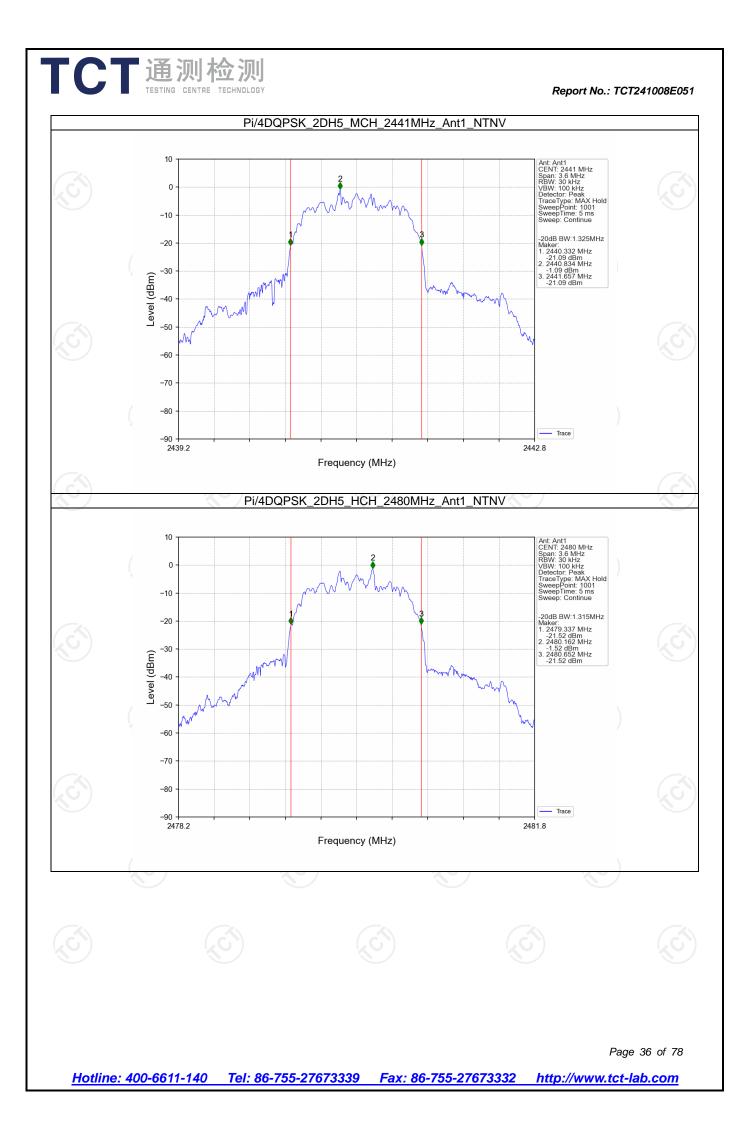


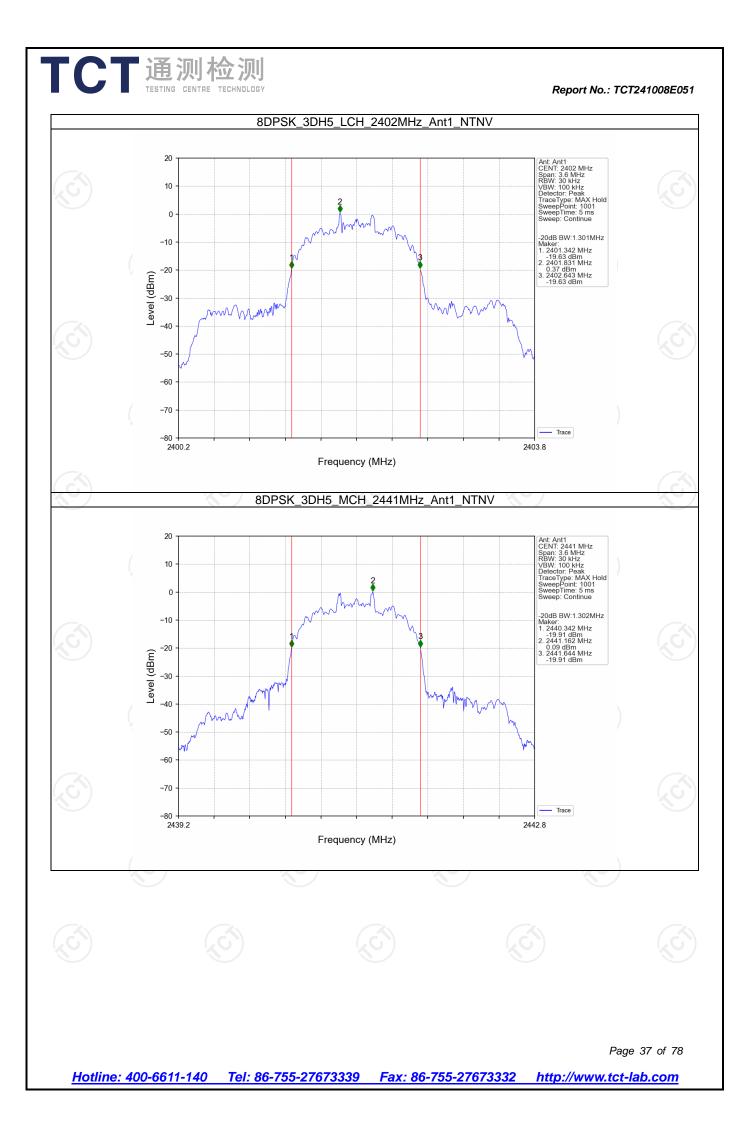


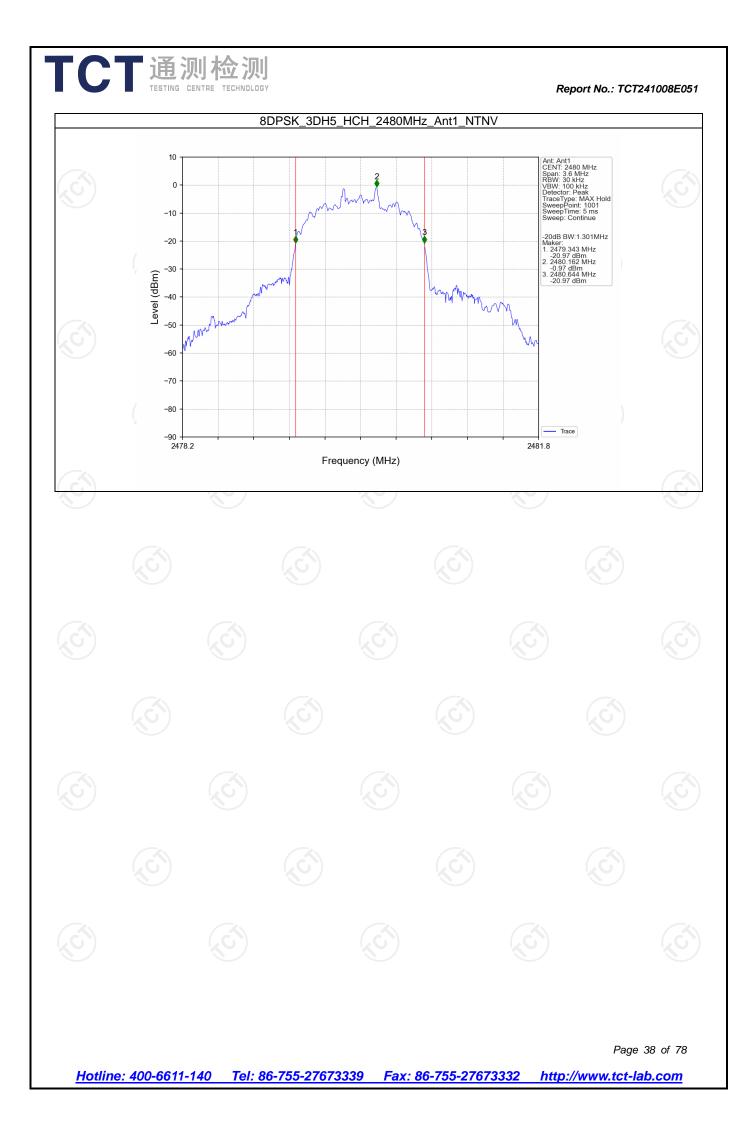
#### 1.2.2 20dB BW













### 2. Maximum Conducted Output Power

### 2.1 Test Result



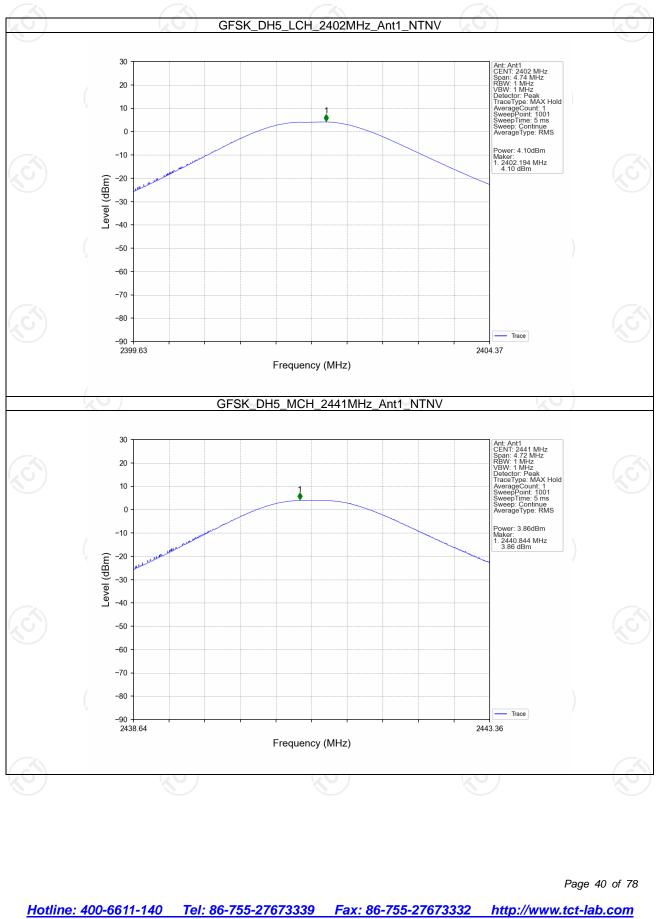


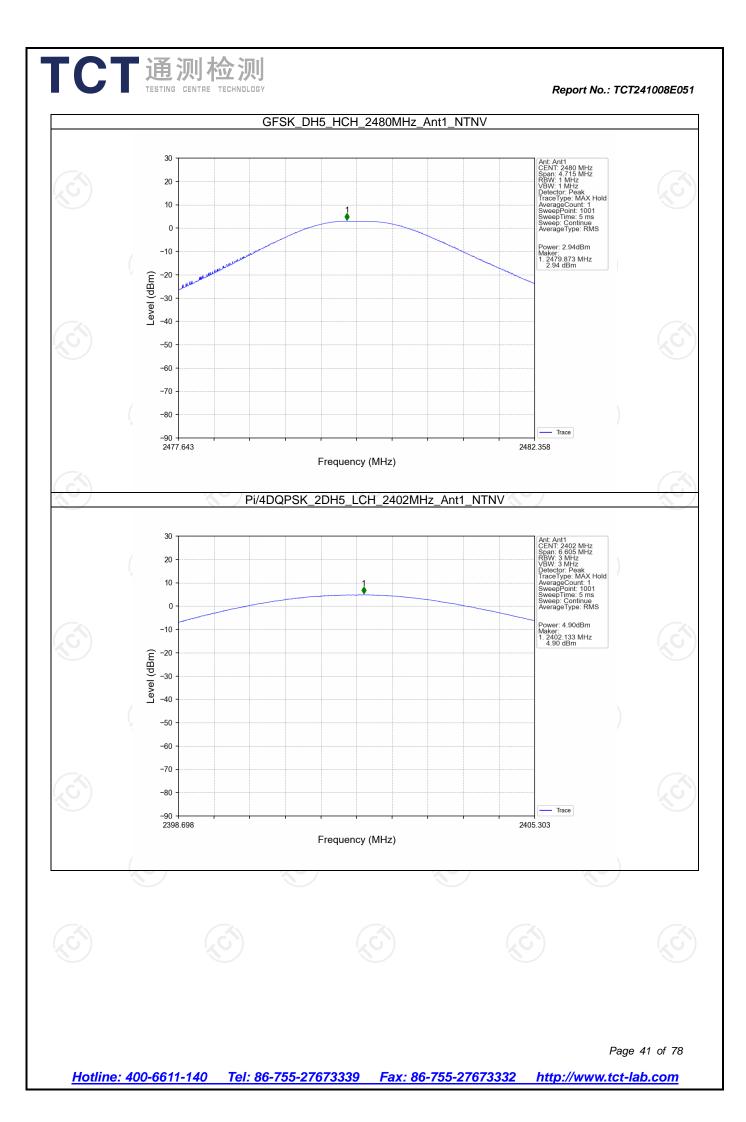
#### 2.1.1 Power

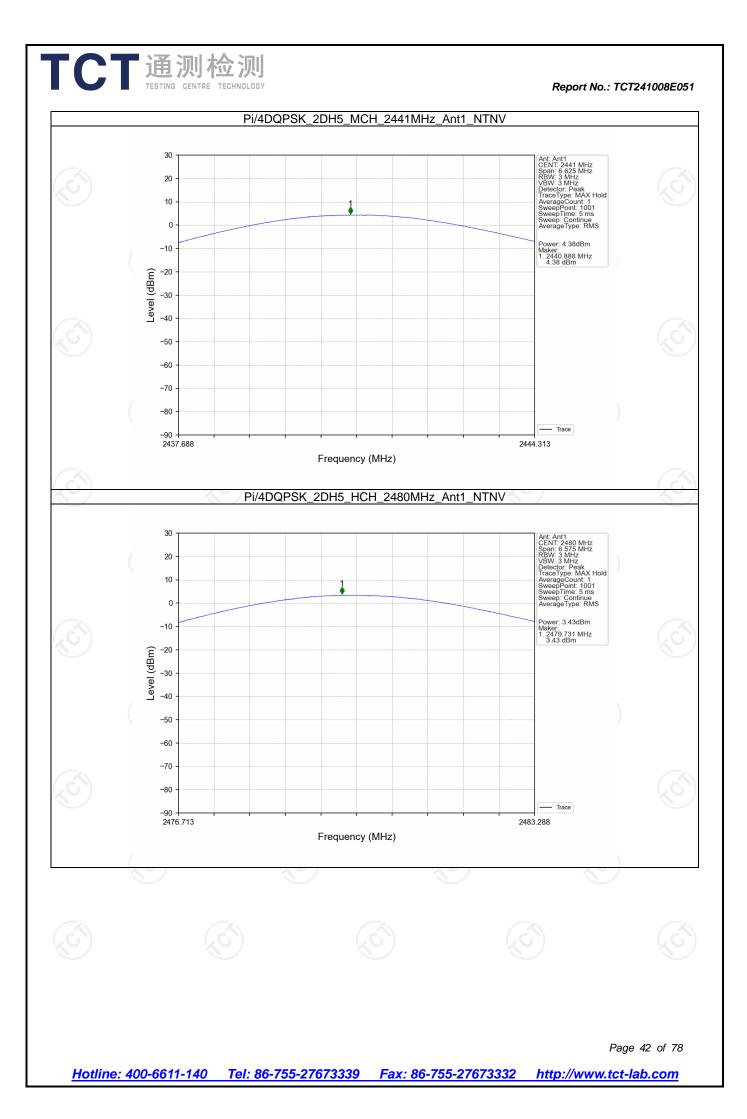
TX	Frequency	Packet	Maximum Peak Conduc	\/a raliat	
Mode Type		Туре	ANT1	Limit	Verdict
	2402	DH5	4.10	<=30	Pass
SISO	2441	DH5	3.86	<=30	Pass
	2480	DH5	2.94	<=30	Pass
	2402	2DH5	4.90	<=20.97	Pass
SISO	2441	2DH5	4.38	<=20.97	Pass
	2480	2DH5	3.43	<=20.97	Pass
	2402	3DH5	5.16	<=20.97	Pass
SISO	2441	3DH5	4.68	<=20.97	Pass
	2480	3DH5	3.75	<=20.97	Pass
	Type SISO SISO	Type         (MHz)           2402         2402           SISO         2441           2480         2402           SISO         2441           2402         2402           SISO         2441           2480         2402           SISO         2441           2480         2402           SISO         2441           2402         2402           SISO         2441	Type         (MHz)         Type           2402         DH5           SISO         2441         DH5           2480         DH5           2402         2DH5           SISO         2441         2DH5           SISO         2441         2DH5           SISO         2441         2DH5           SISO         24402         3DH5           SISO         2441         3DH5	Type         (MHz)         Type         ANT1           2402         DH5         4.10           SISO         2441         DH5         3.86           2402         DH5         2.94           2402         2DH5         4.90           SISO         2441         2DH5         4.38           2402         2DH5         4.38           2480         2DH5         3.43           2402         3DH5         5.16           SISO         2441         3DH5         4.68	Type         (MHz)         Type         ANT1         Limit           2402         DH5         4.10         <=30

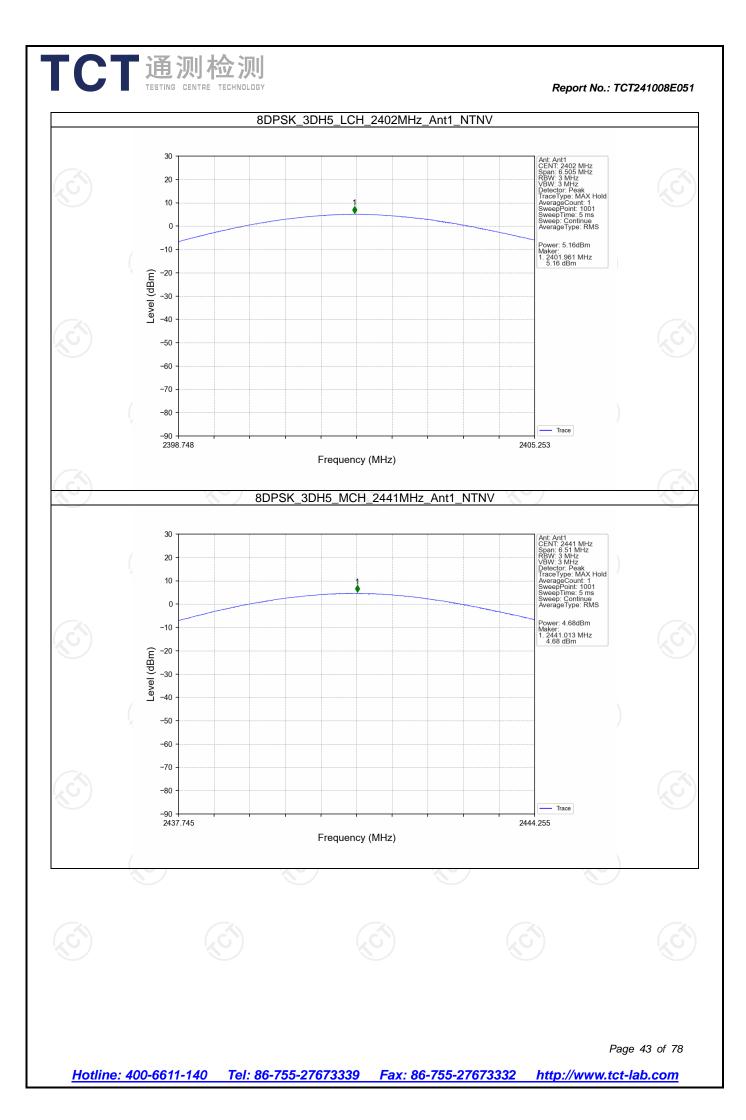


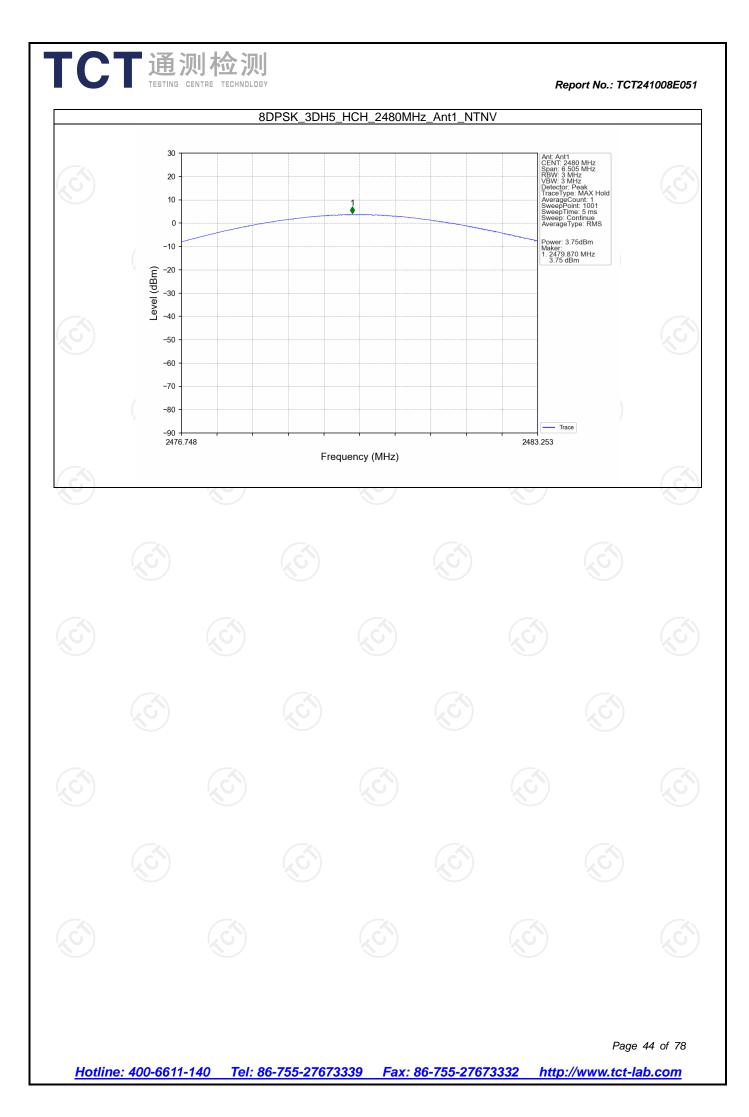
#### 2.2.1 Power













## 3. Carrier Frequency Separation

### 3.1 Test Result

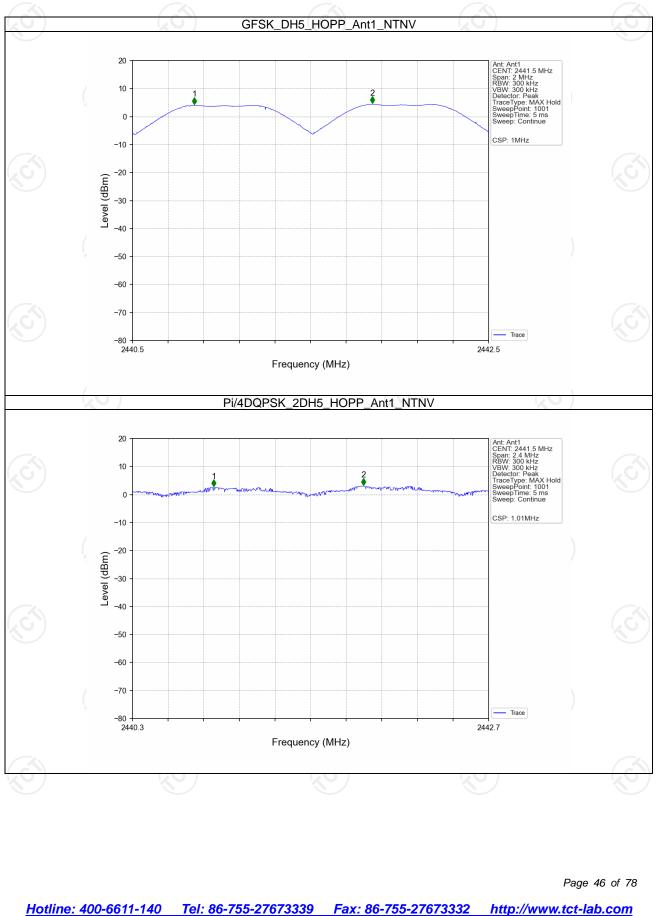


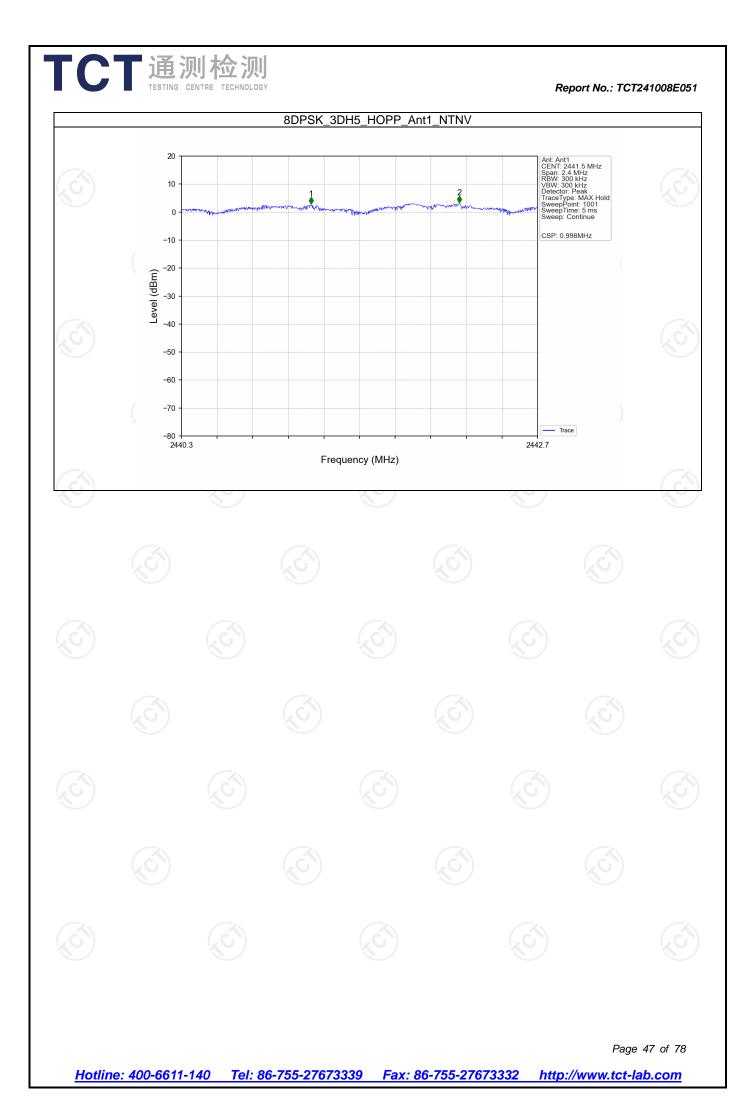
#### 3.1.1 Ant1

Mode GFSK Pi/4DQPSK 8DPSK	TX Type SISO SISO SISO	Frequency (MHz) HOPP HOPP HOPP	Packet Type DH5 2DH5 3DH5	Ant1 Channel Separ (MHz) 1.000 1.010 0.998	ation 20	0dB Bandwidth (MHz) 0.948 1.325 1.302	Limit (MHz) >=0.948 >=0.883 >=0.868	Verdict Pass Pass Pass
<u>Hotline: 4</u>	<u>400-6611-</u>	140 Tel: 8	<u>6-755-2767</u>	73339 Fax: 8	6-755-276	73332 http:	Page :// <b>www.tct-l</b>	e 45 of 78 ab.com

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#### 3.2.1 Ant1







## 4. Number of Hopping Frequencies

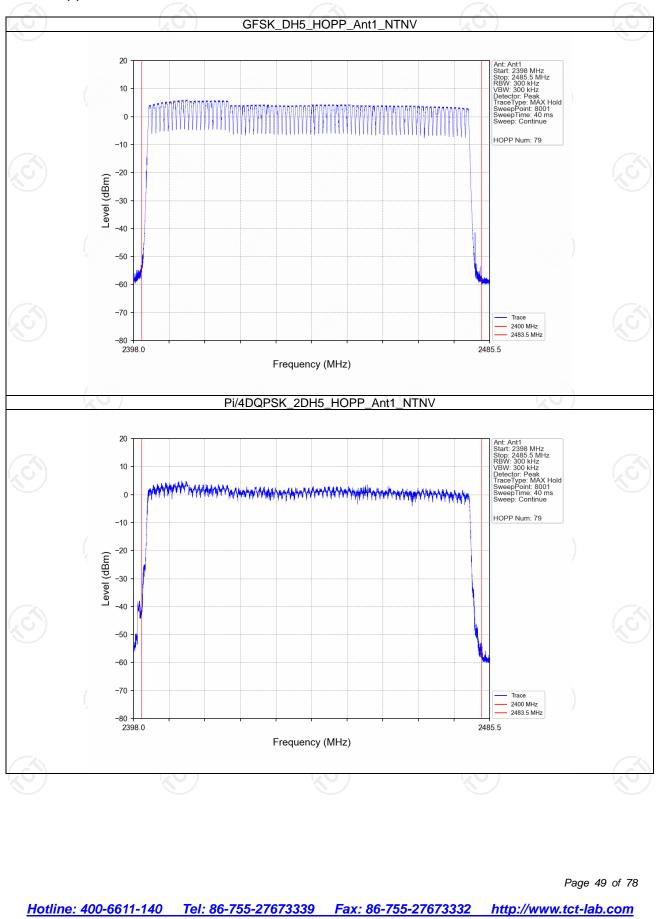
### 4.1 Test Result

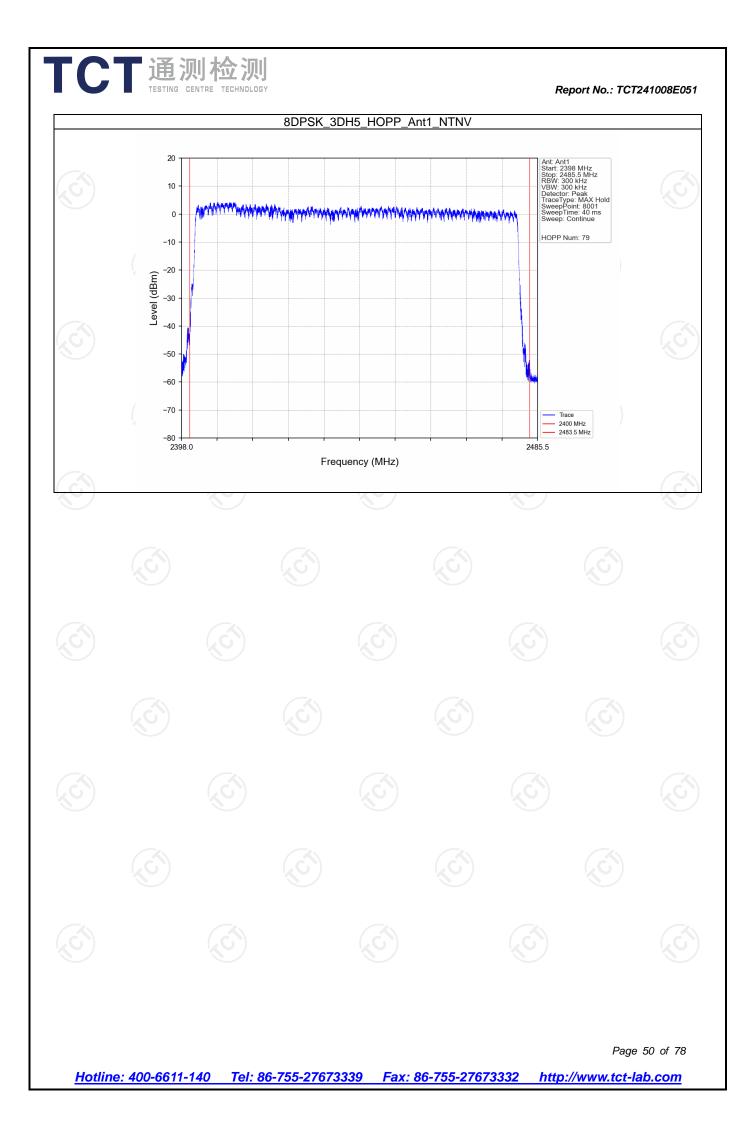
### 4.1.1 HoppNum

Mode GFSK Pi/4DQPSK 8DPSK	TX I Type SISO SISO SISO SISO	Frequency (MHz) HOPP HOPP HOPP	Packet Type DH5 2DH5 3DH5	Num of Hop ANT1 79 79 79 79	pping Frequencies Limit >=15 >=15 >=15	Verdict Pass Pass Pass Pass

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#### 4.2.1 HoppNum







### 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

#### 5.1.1 Ant1

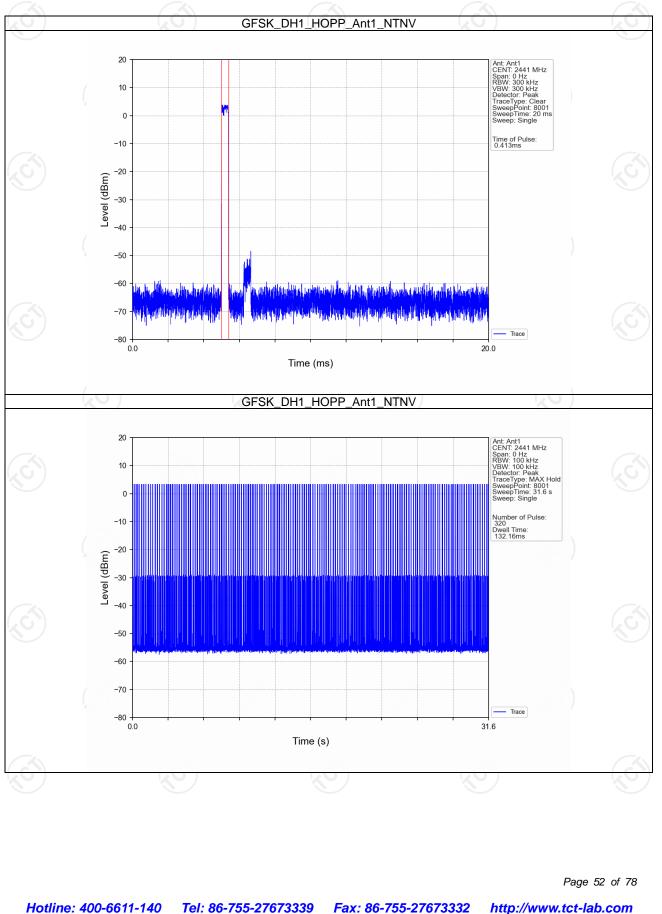
		X		(A)	Ant1					
Mode	TX	Frequency	Packet	Duration of	Observation	Num of Pulse in	Dwell	Limit	Vordiot	
wode	Туре	(MHz)	Туре	Single Pulse (ms)	Period (s)	<b>Observation Period</b>	Time (ms)	(ms)	Verdict	
	DH1	0.413	31.600	320	132.160	<=400	Pass			
GFSK	SISO	HOPP	DH3	1.668	31.600	156	260.208	<=400	Pass	
			DH5	2.918	31.600	110	320.980	<=400	Pass	
	1/4DQPSK SISO HOPP		(.	2DH1	0.388	31.600	315	122.220	<=400	Pass
Pi/4DQPSK		HOPP	2DH3	1.658	31.600	156	258.648	<=400	Pass	
		2DH5	2.908	31.600	113	328.604	<=400	Pass		
		3DH1	0.403	31.600	320	128.960	<=400	Pass		
8DPSK	BDPSK SISO HOPP	HOPP	3DH3	1.653	31.600	156	257.868	<=400	Pass	
			3DH5	0.120	31.600	104	12.480	<=400	Pass	

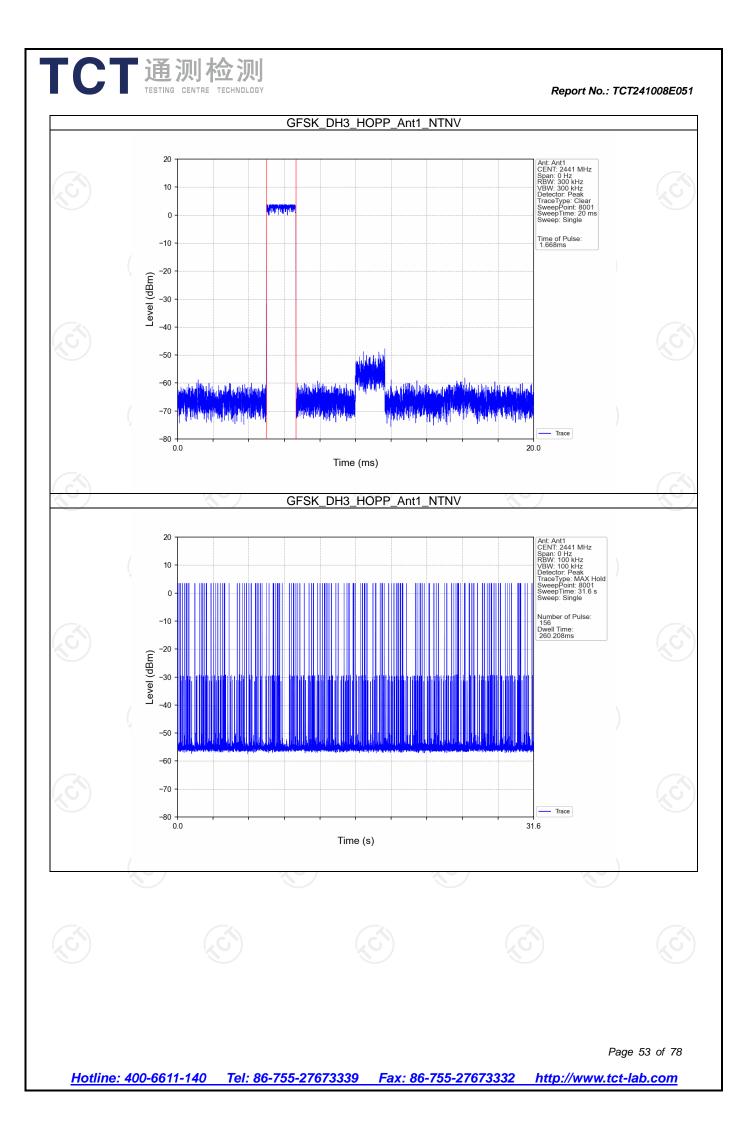


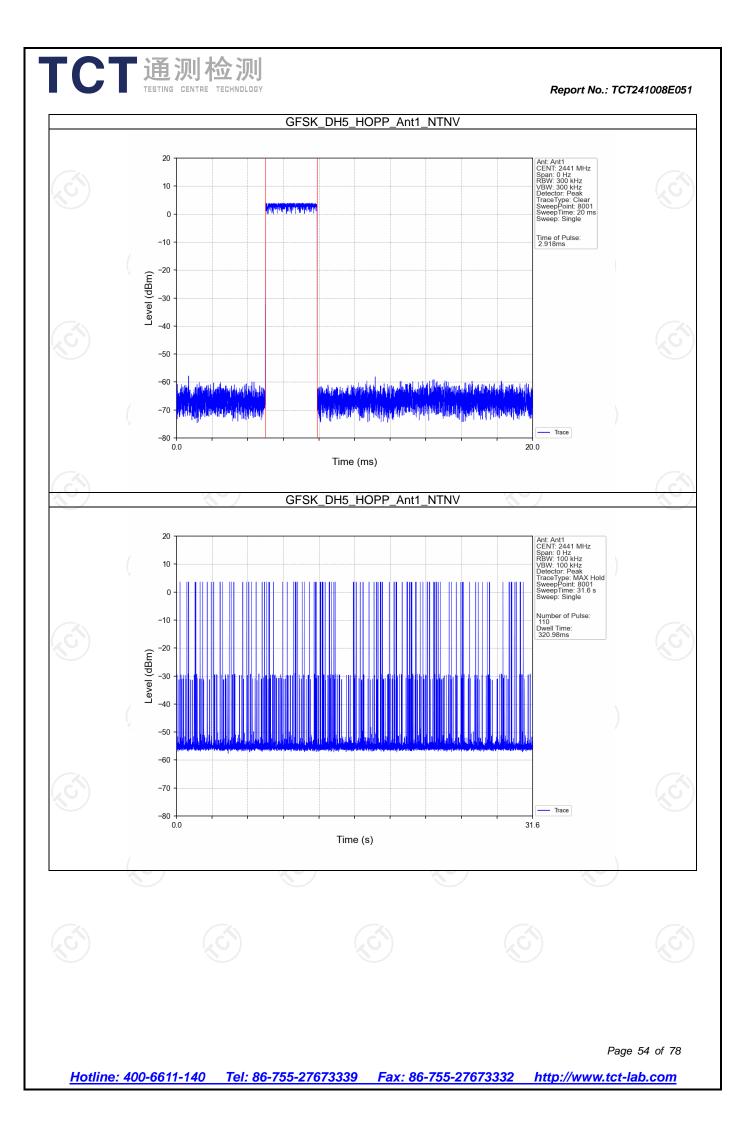
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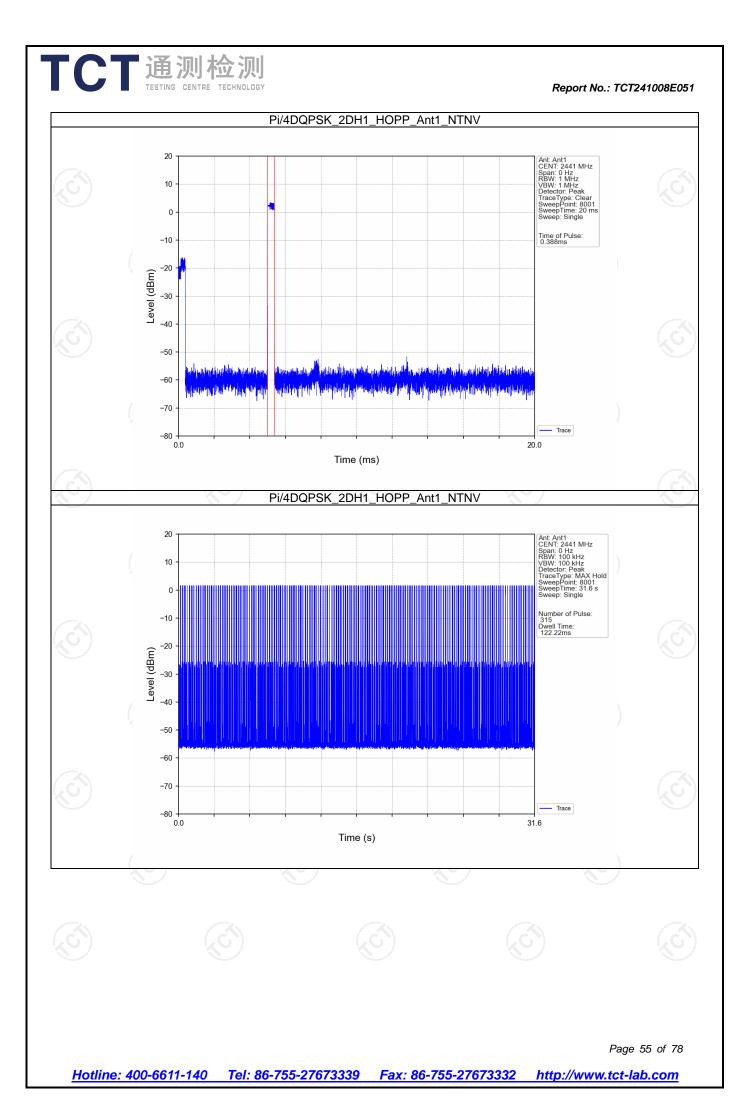
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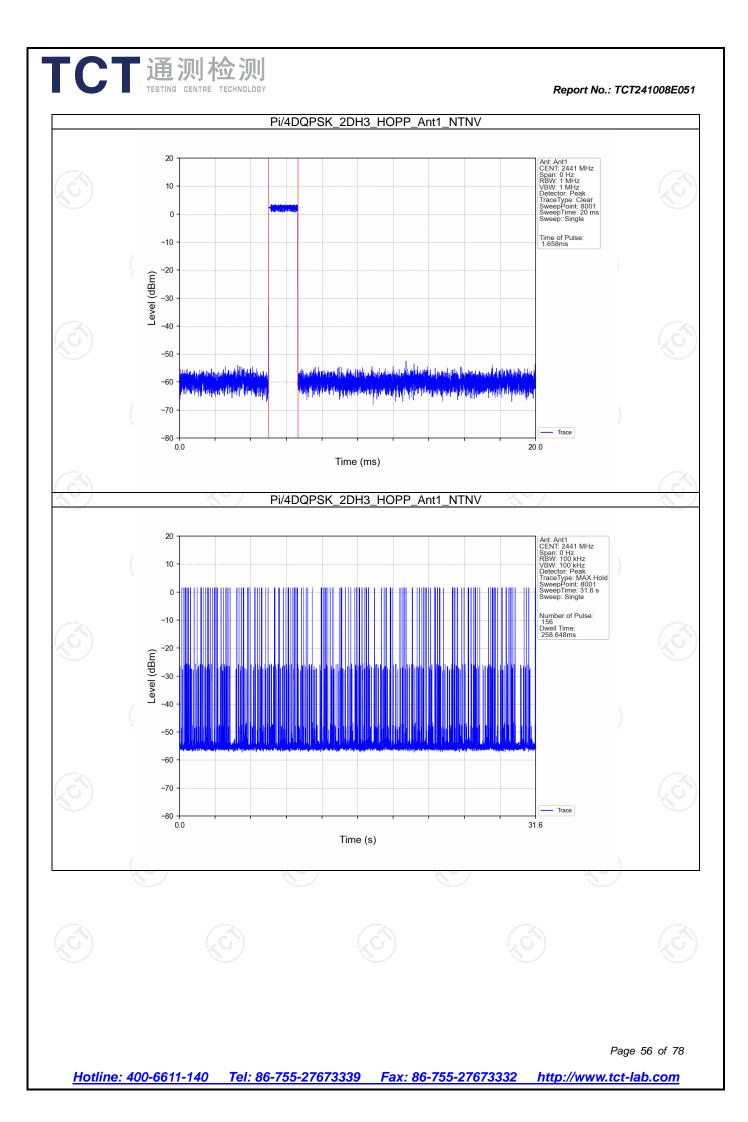
#### 5.2.1 Ant1

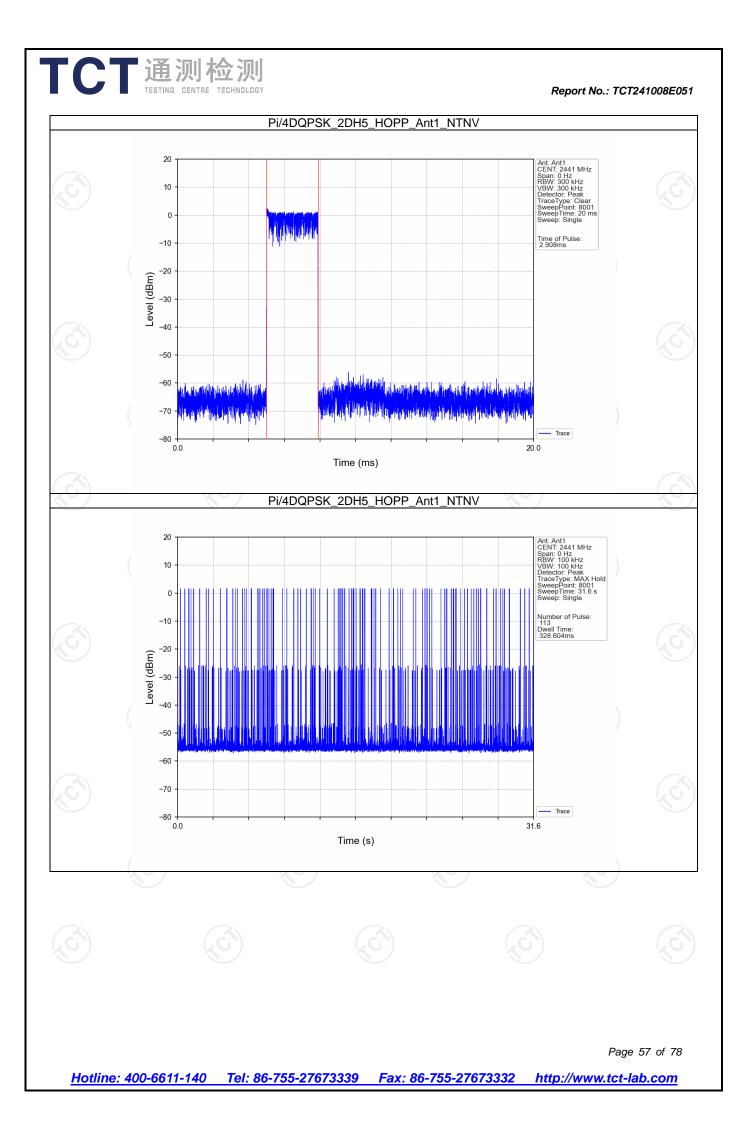


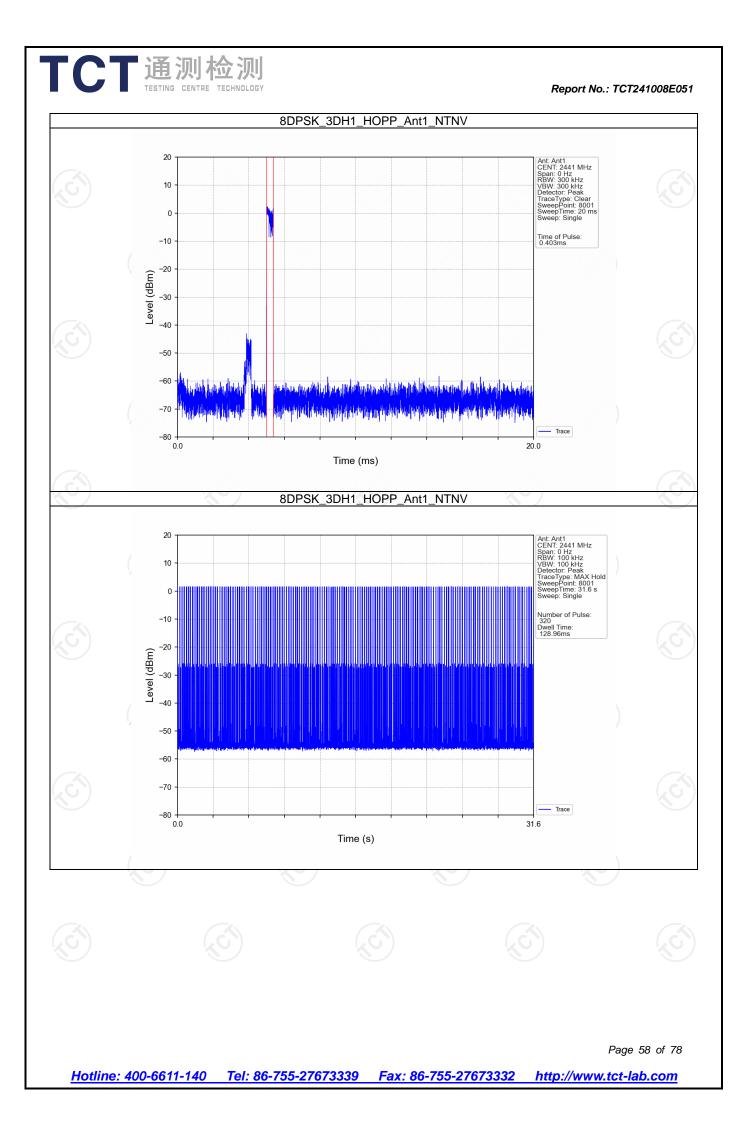


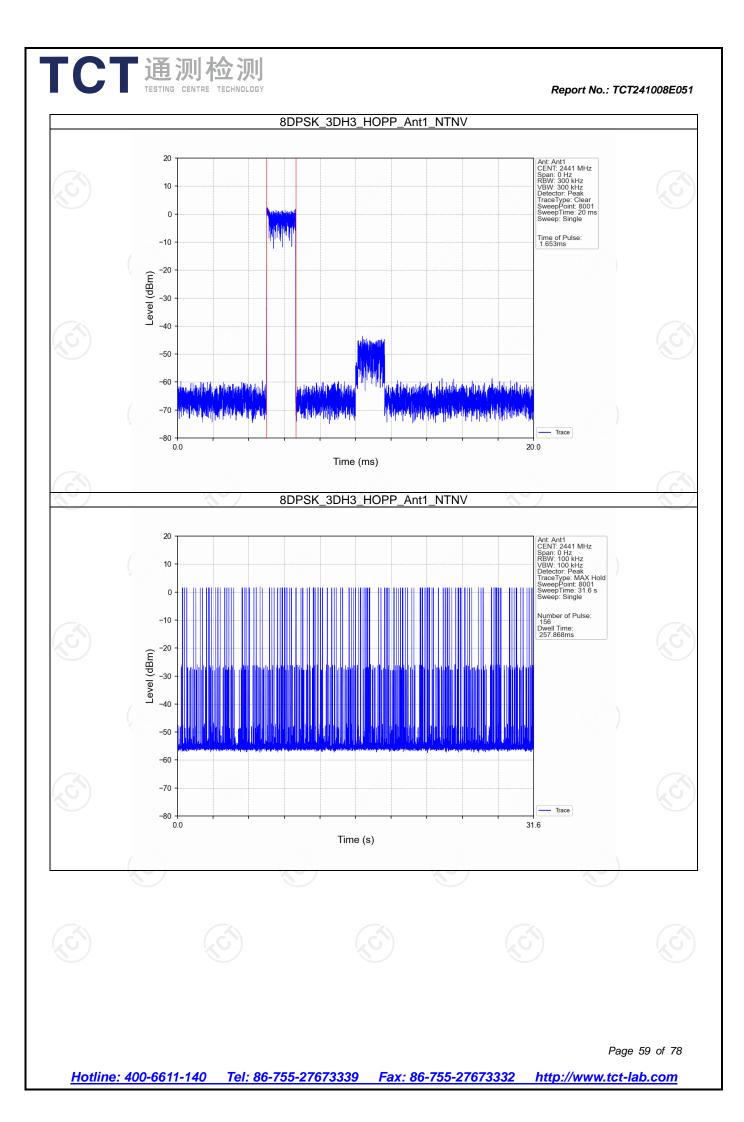


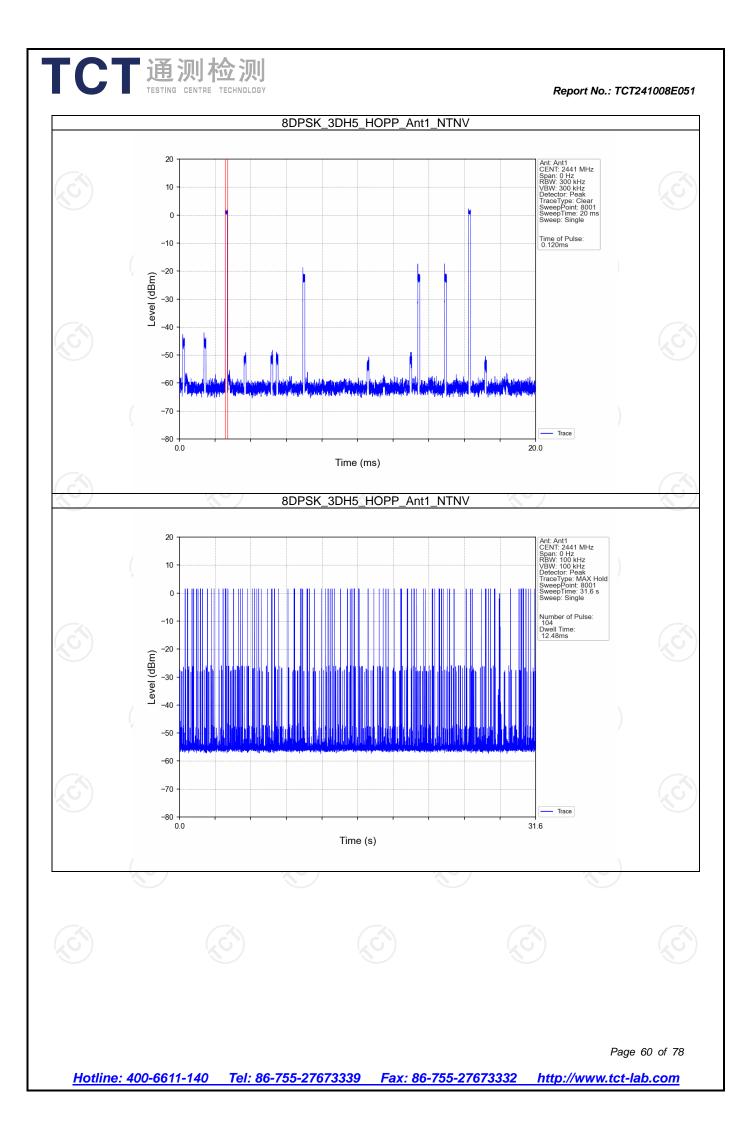












### 6. Unwanted Emissions In Non-restricted Frequency Bands

#### 6.1 Test Result

#### 6.1.1 Ref

TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
	2402	DH5	1	4.29
SISO	2441	DH5	1	4.14
	2480	DH5	1	3.17
SISO	2402	2DH5	1	3.31
	2441	2DH5	1	2.63
	2480	2DH5	1	1.38
	2402	3DH5	1	3.43
SISO	2441	3DH5	1	2.70
	2480	3DH5	1	1.31
	Type SISO SISO SISO	Type         (MHz)           2402           SISO         2441           2480           2402           SISO         2441           2402           SISO         2441           2480         2402           SISO         2441           2480         2402           SISO         2441           2402         2402           SISO         2441           2480         2480	Type         Type           2402         DH5           SISO         2441         DH5           2402         DH5         2480           SISO         2442         2DH5           SISO         2441         2DH5           SISO         24402         2DH5           SISO         24402         3DH5           SISO         2441         3DH5           SISO         2441         3DH5	Type         (MHz)         Type         AN1           2402         DH5         1           SISO         2441         DH5         1           2402         DH5         1         1           2480         DH5         1         1           2402         2DH5         1         1           SISO         2441         2DH5         1           2402         2DH5         1         1           SISO         2441         2DH5         1           2402         3DH5         1         1           SISO         2441         3DH5         1

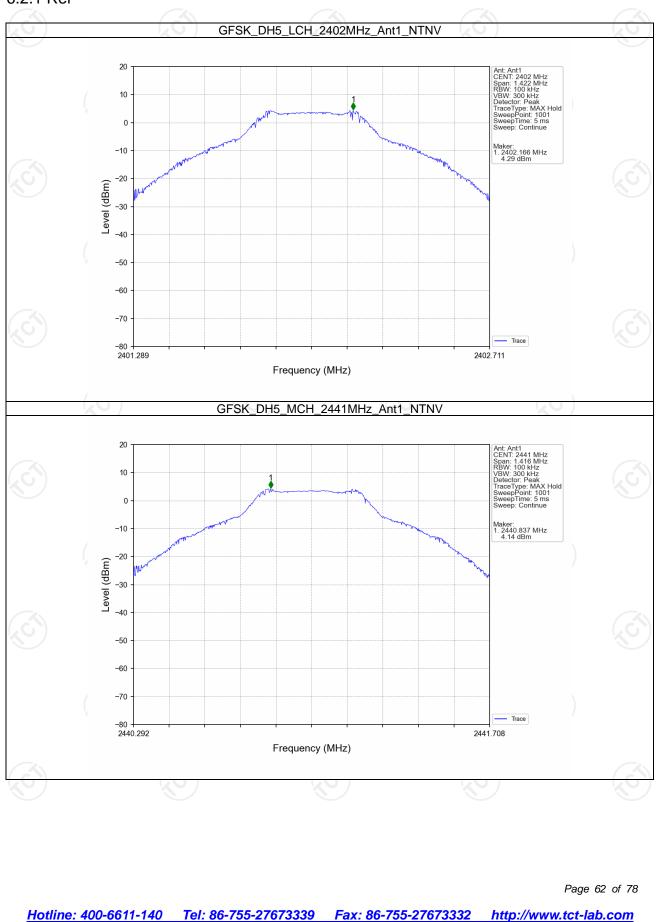
#### 6.1.2 CSE

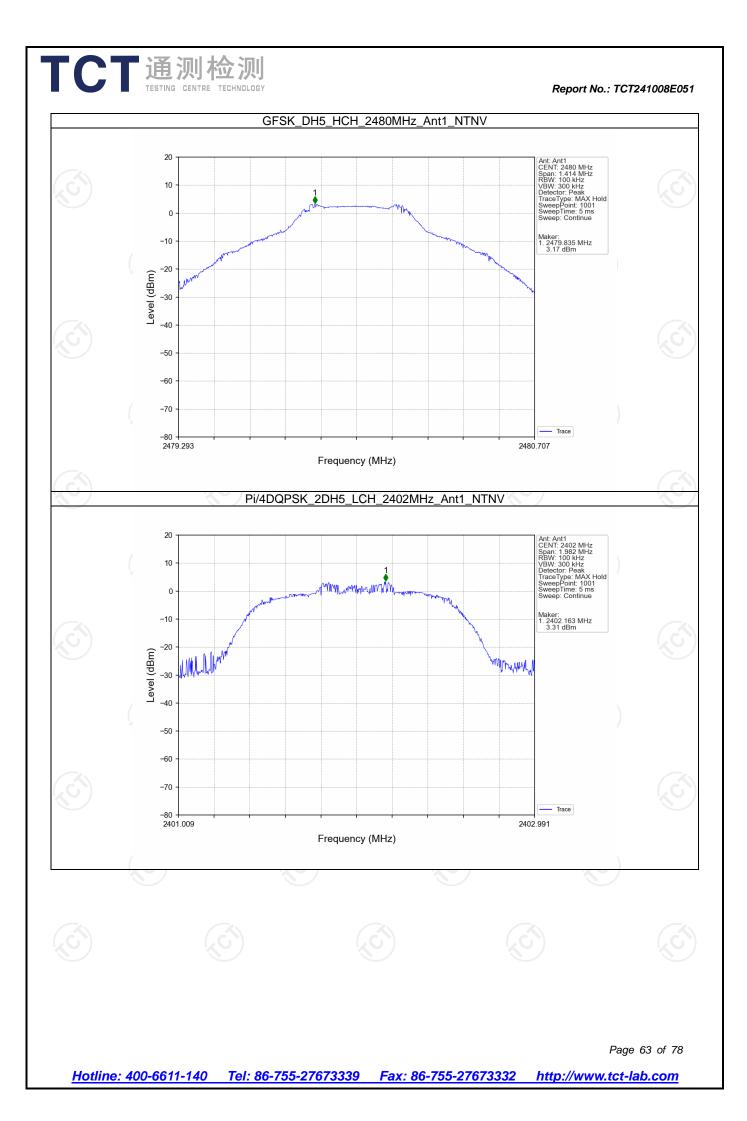
TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
Y.	2402	DH5	1	4.29	-15.71	Pass
	2441	DH5	1	4.29	-15.71	Pass
SISO	2480	DH5	1	4.29	-15.71	Pass
		DHE	1	4.29	-15.71	Pass
	порр	DHD	I	4.29	-15.71	Pass
	2402	2DH5	1	3.31	-16.69	Pass
	2441	2DH5	1	3.31	-16.69	Pass
SISO	2480	2DH5	1	3.31	-16.69	Pass
	НОРР	2DH5	<b>G1</b> -	3.31	-16.69	Pass
				3.31	-16.69	Pass
	2402	3DH5	1	3.43	-16.57	Pass
	2441	3DH5	1	3.43	-16.57	Pass
SISO	2480	3DH5	1	3.43	-16.57	Pass
			4	3.43	-16.57	Pass
<b>((</b> )	порр	3DH5	1	3.43	-16.57	Pass
	Type SISO SISO	Type         (MHz)           2402         2441           SISO         2480           HOPP         2402           2441         2480           HOPP         2442           SISO         2480           HOPP         2402           2441         2480           HOPP         2480           HOPP         2441	Type         (MHz)         Type           2402         DH5           2441         DH5           2480         DH5           2480         DH5           HOPP         DH5           2441         2DH5           2402         2DH5           2441         2DH5           2441         2DH5           2480         2DH5           2480         2DH5           HOPP         2DH5           HOPP         2DH5           SISO         2402         3DH5           SISO         2480         3DH5	Type         (MHz)         Type         ANI           2402         DH5         1           2441         DH5         1           2480         DH5         1           SISO         2480         DH5         1           HOPP         DH5         1         1           SISO         2402         2DH5         1           ANI         2402         2DH5         1           2402         2DH5         1         1           2441         2DH5         1         1           ANI         2402         2DH5         1           ANI         2480         2DH5         1           ANI         2402         3DH5         1           ANI         2402         3DH5         1           ANI         2402         3DH5         1           ANI         2402         3DH5         1	Type         (MHz)         Type         ANI         (dBm)           2402         DH5         1         4.29           2441         DH5         1         4.29           SISO         2480         DH5         1         4.29           HOPP         DH5         1         4.29           HOPP         DH5         1         4.29           SISO         2402         2DH5         1         3.31           2402         2DH5         1         3.31           2441         2DH5         1         3.31           2480         2DH5         1         3.31           2480         2DH5         1         3.31           2402         3DH5         1         3.43           SISO         2480         3DH5         1         3.43           HOPP         2BH5         1         3.43         3.43	Type         (MHz)         Type         AN1         (dBm)         (dBm)           2402         DH5         1         4.29         -15.71           2441         DH5         1         4.29         -15.71           2480         DH5         1         4.29         -15.71           HOPP         DH5         1         4.29         -15.71           HOPP         DH5         1         4.29         -15.71           4.29         -15.71         4.29         -15.71           HOPP         DH5         1         3.31         -16.69           2441         2DH5         1         3.31         -16.69           2480         2DH5         1         3.31         -16.69           2402         2DH5         1         3.31         -16.69           SISO         2480         2DH5         1         3.31         -16.69           HOPP         2DH5         1         3.43         -16.57           SISO         2480         3DH5         1         3.43         -16.57           SISO         2480         3DH5         1         3.43         -16.57           HOPP         3DH5

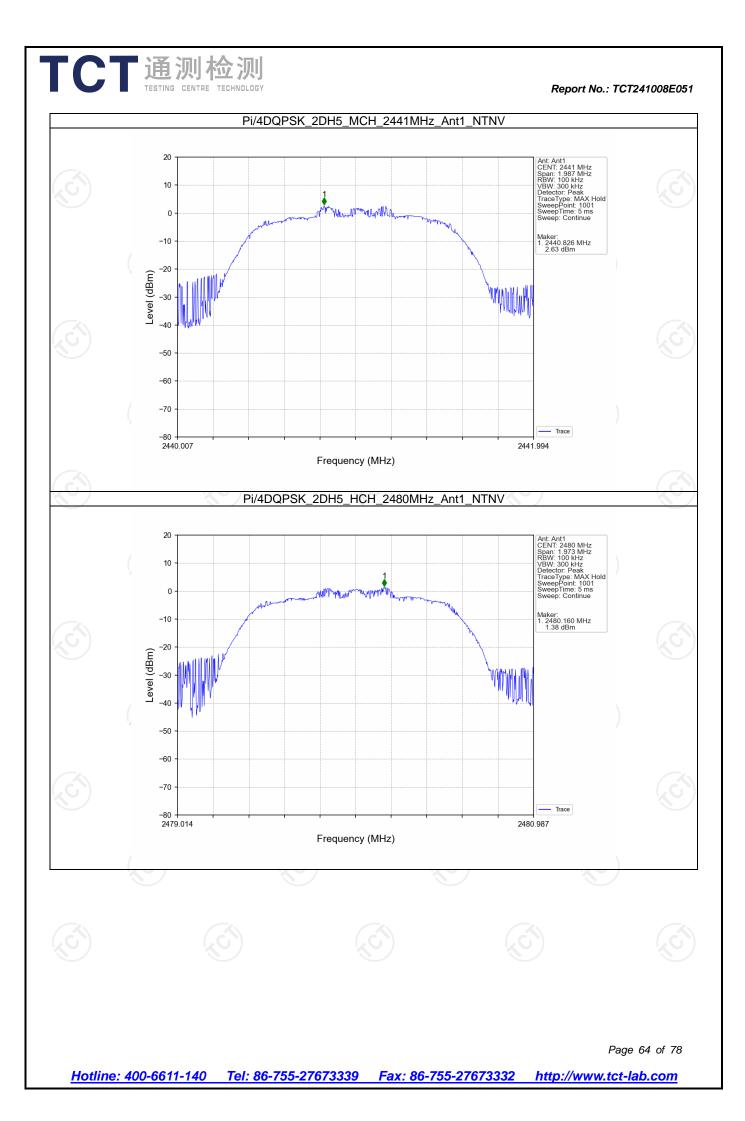
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

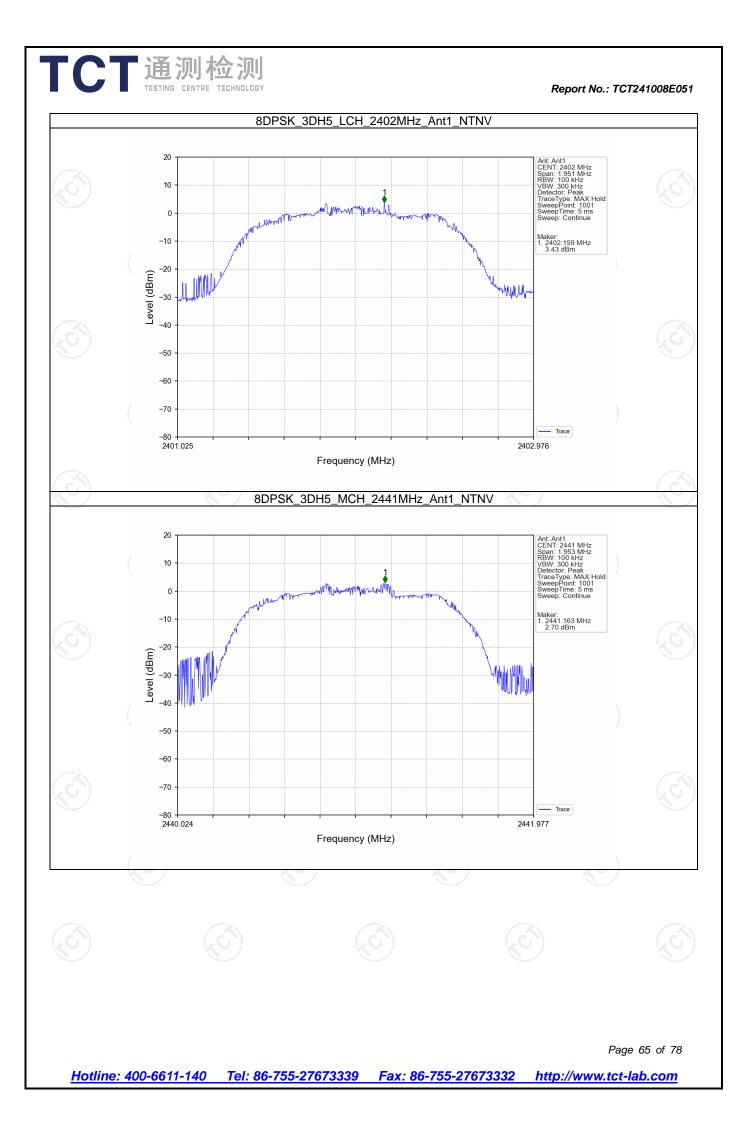
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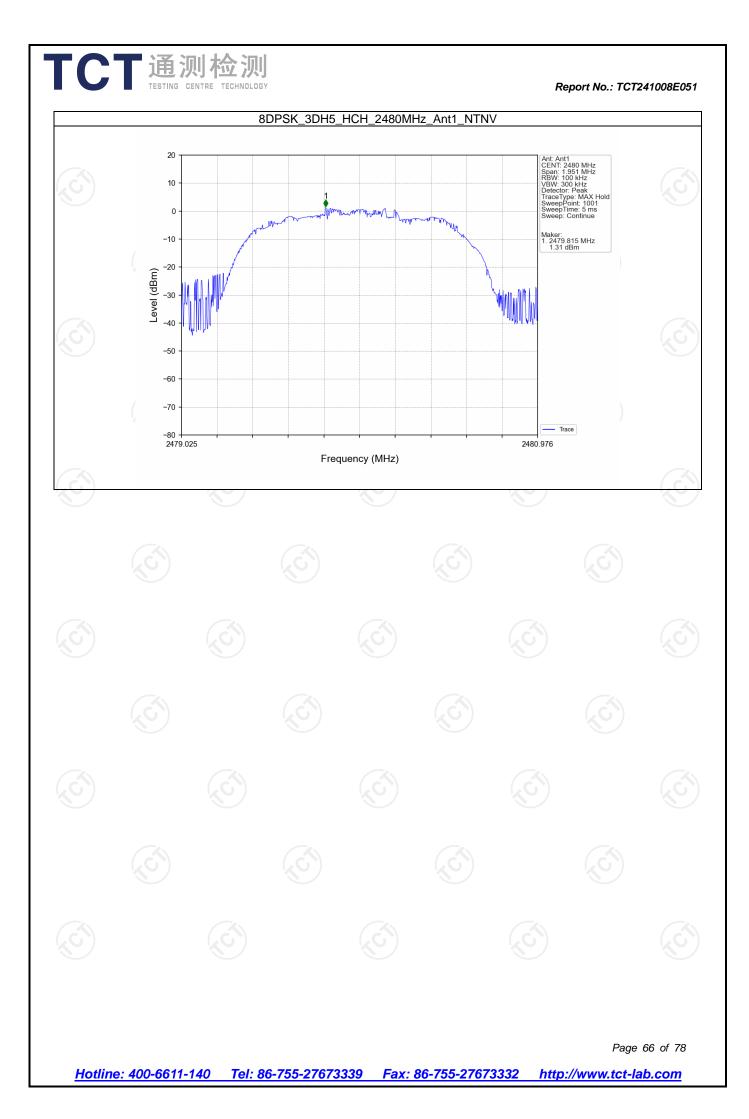
6.2.1 Ref







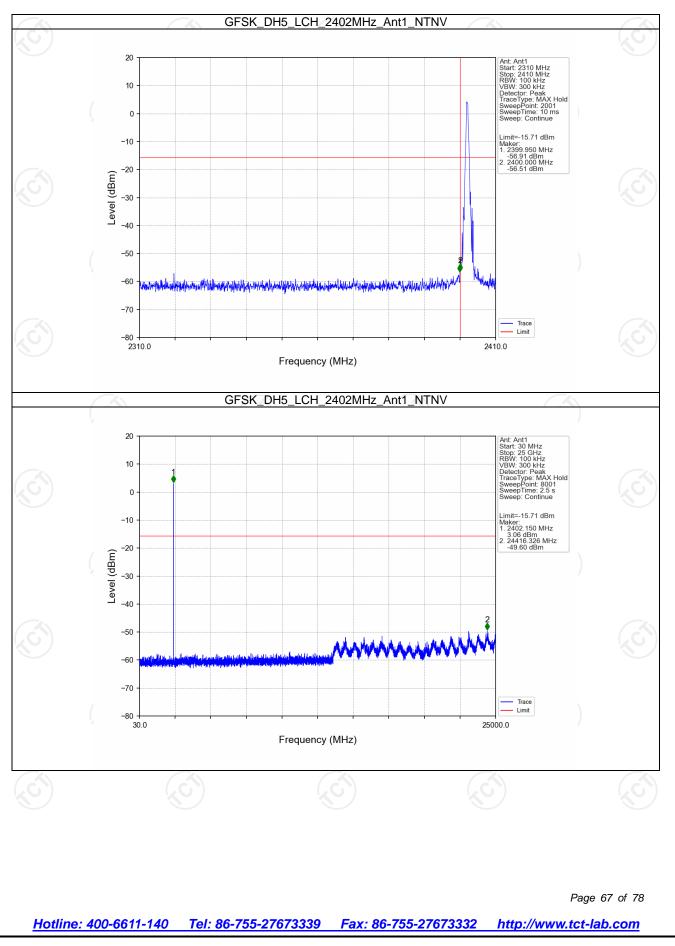


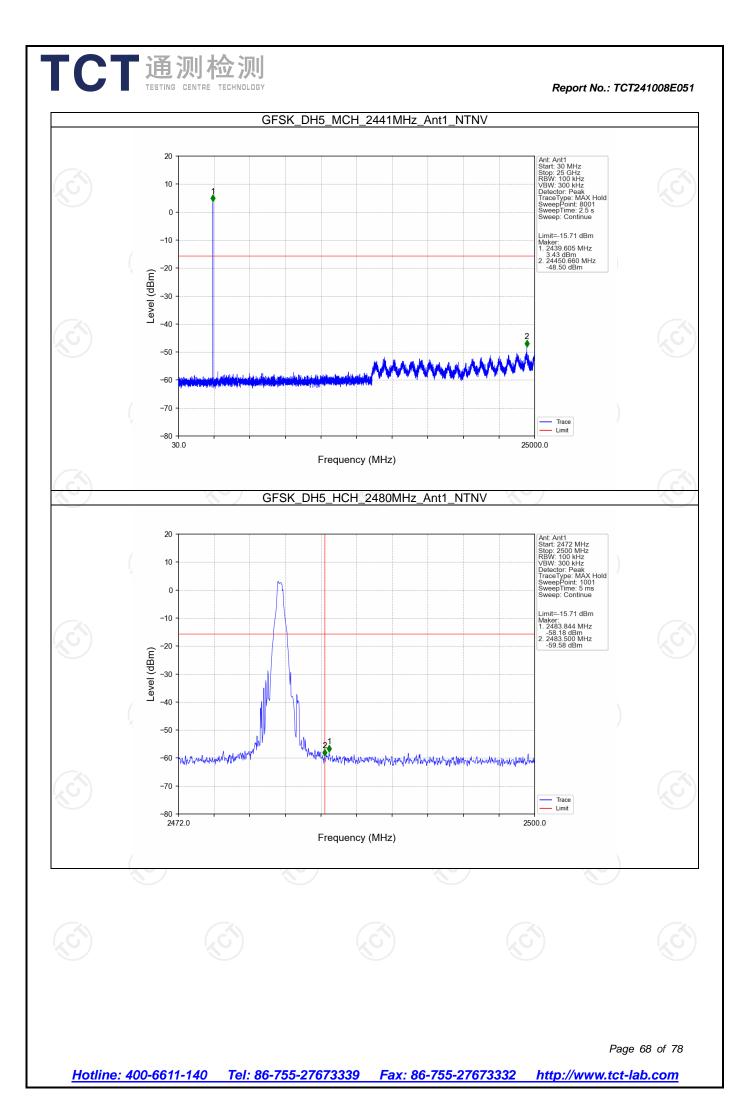


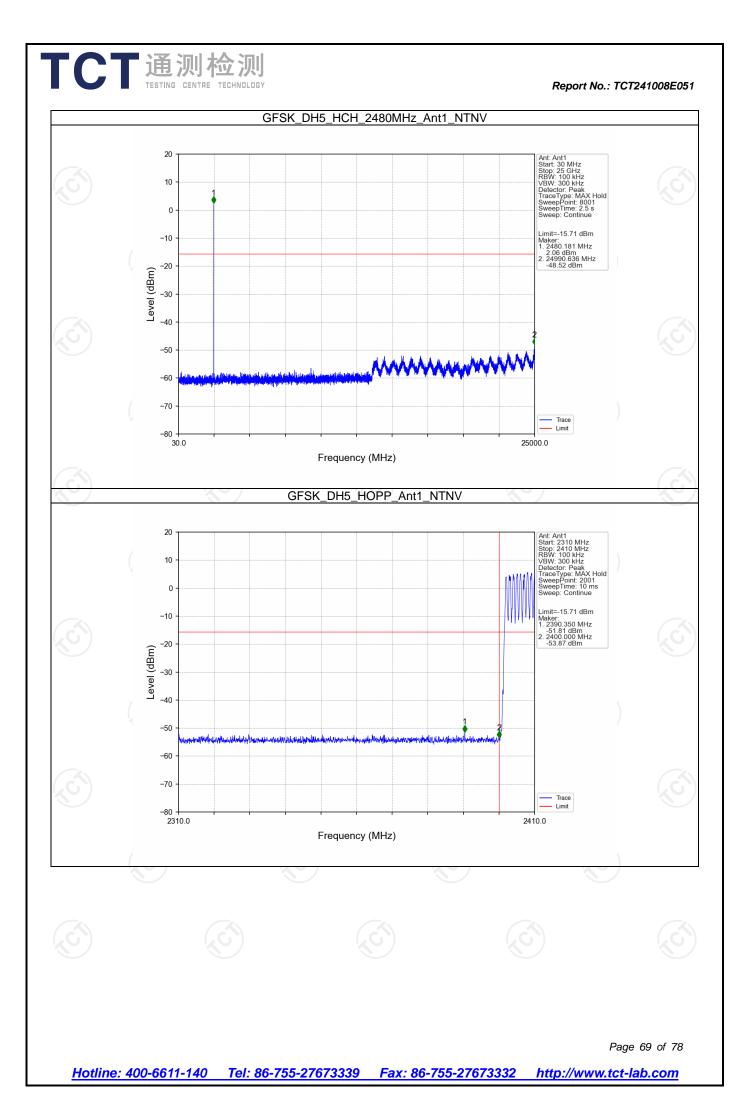
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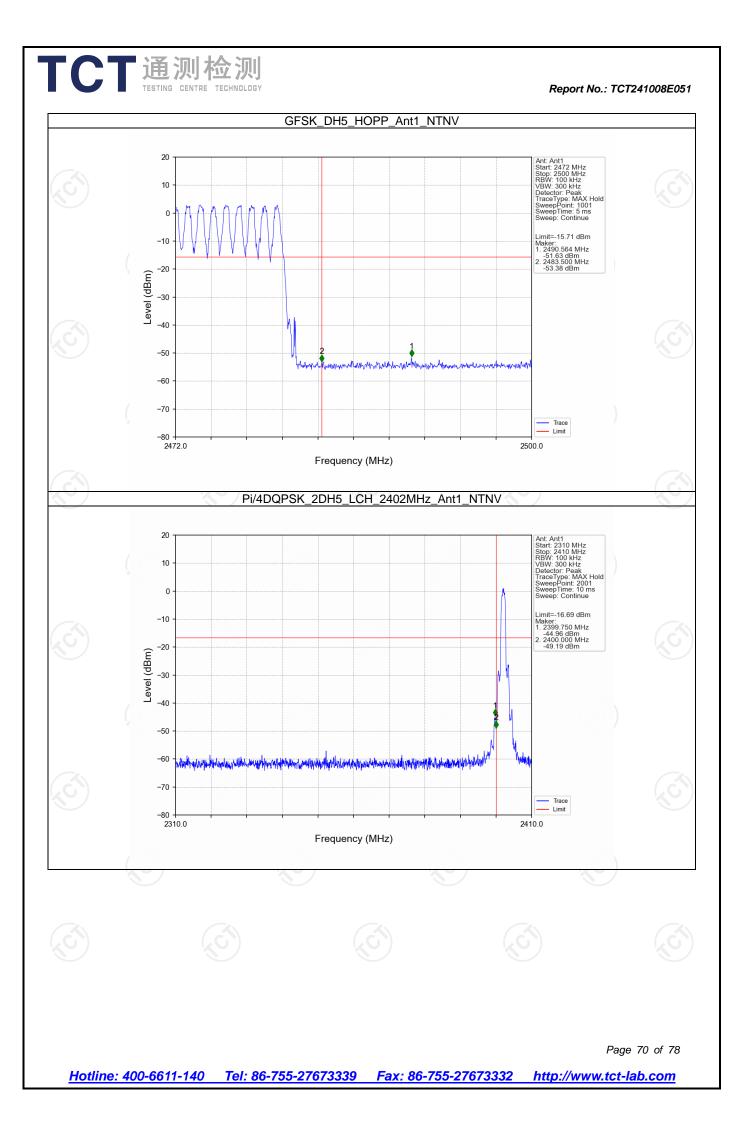
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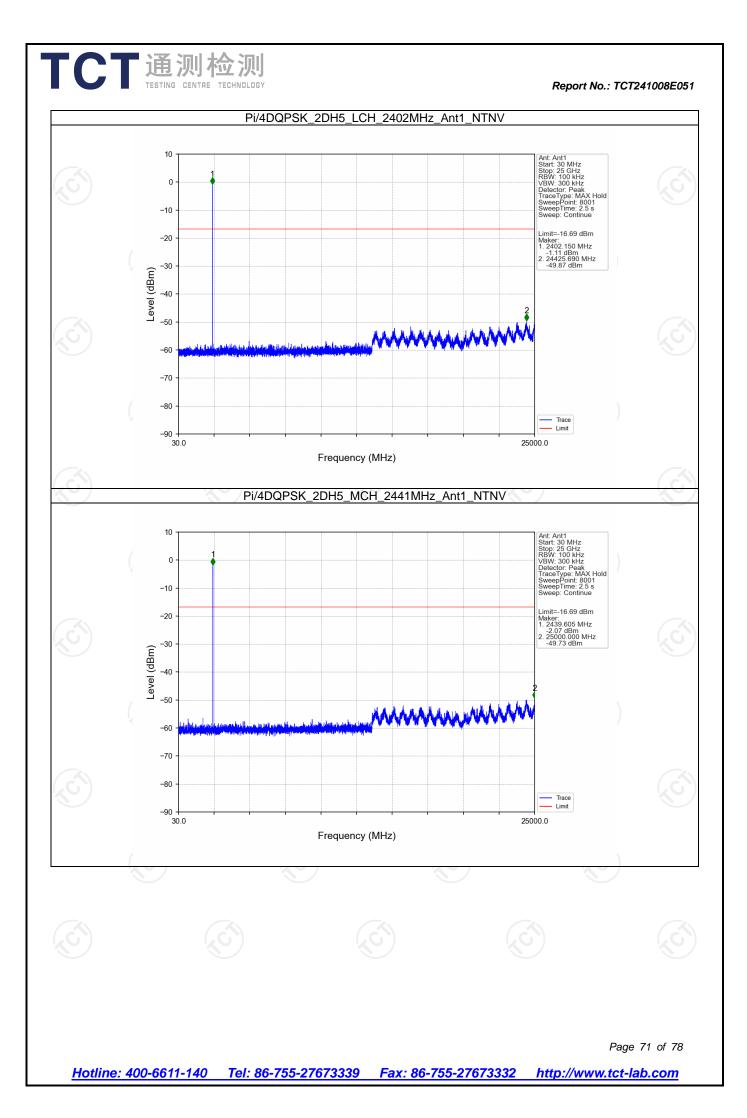
#### 6.2.2 CSE

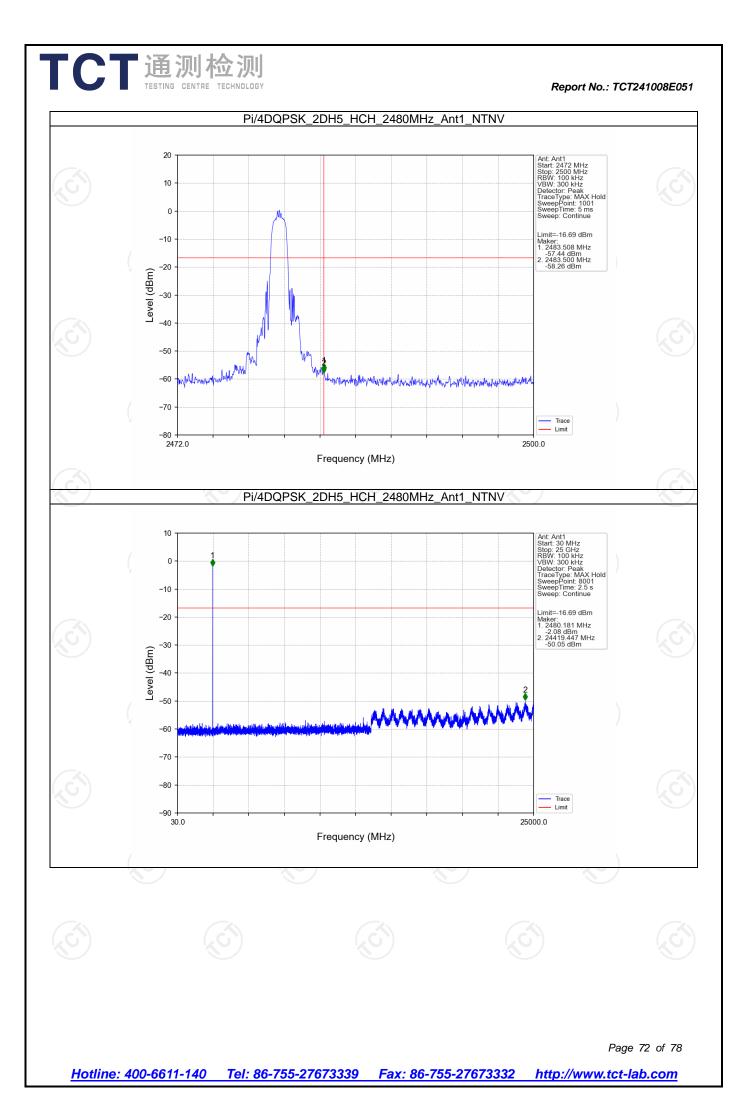


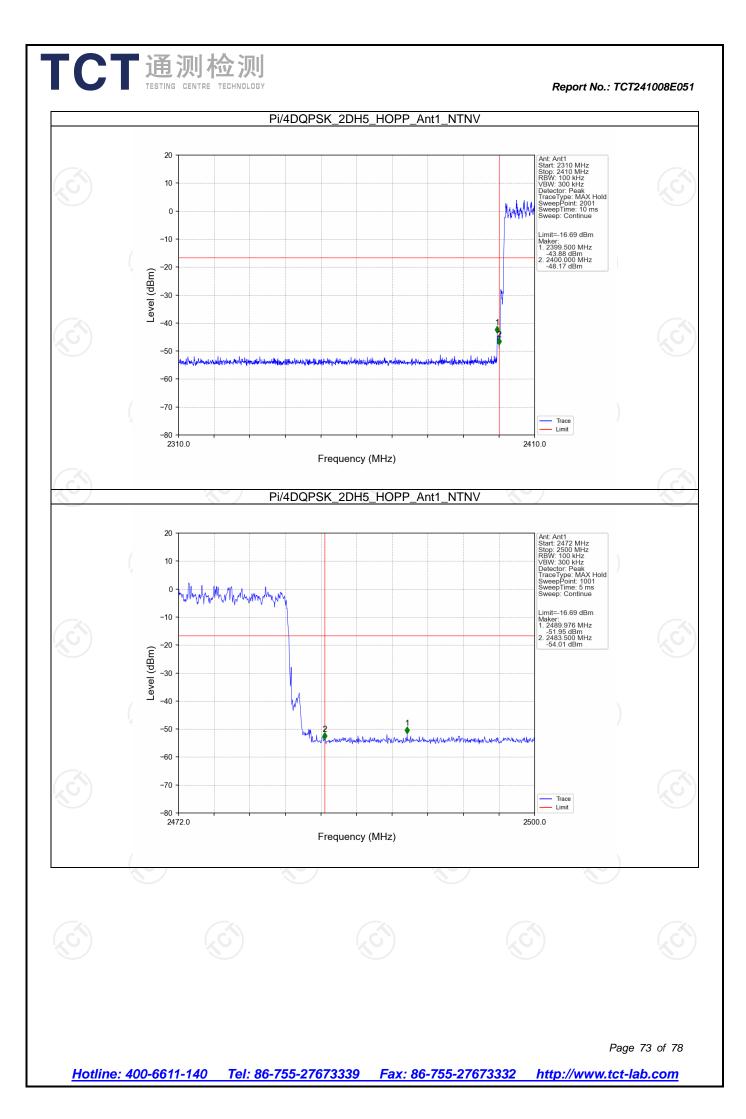


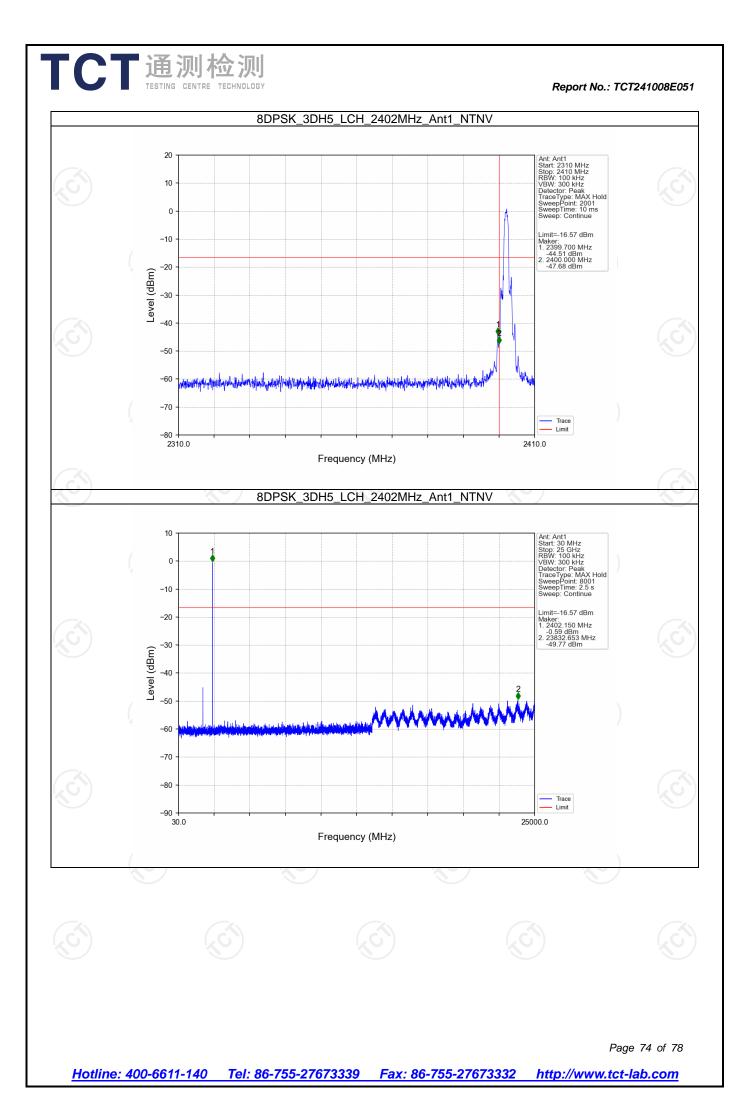


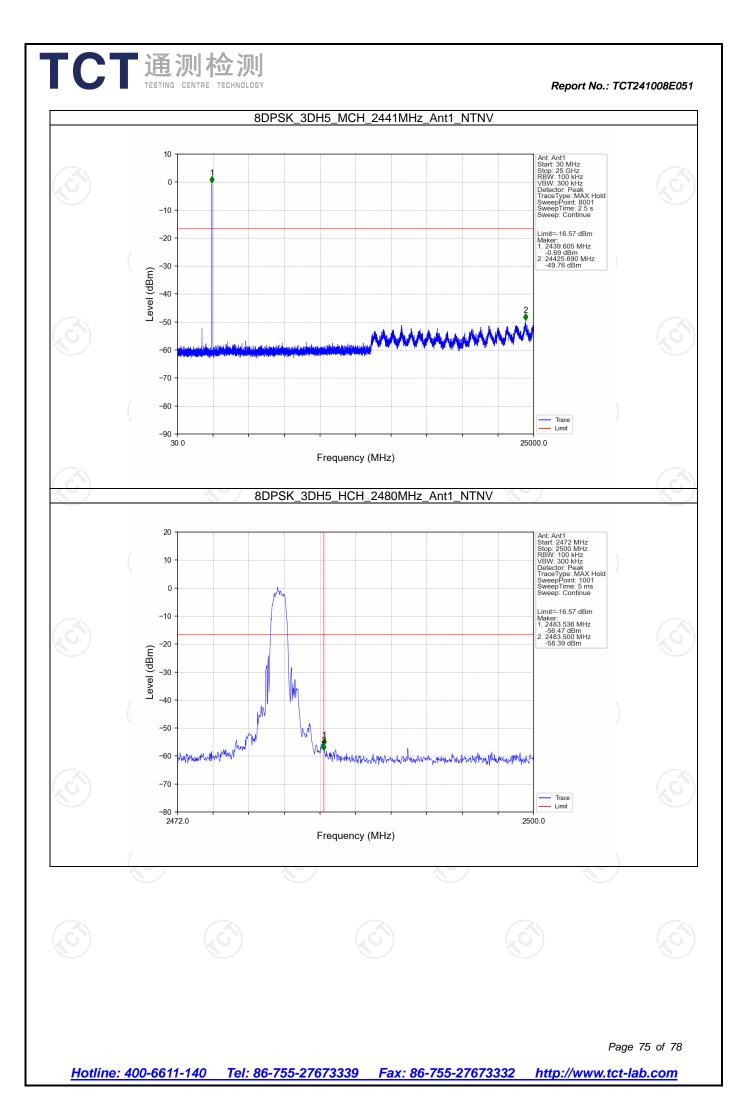


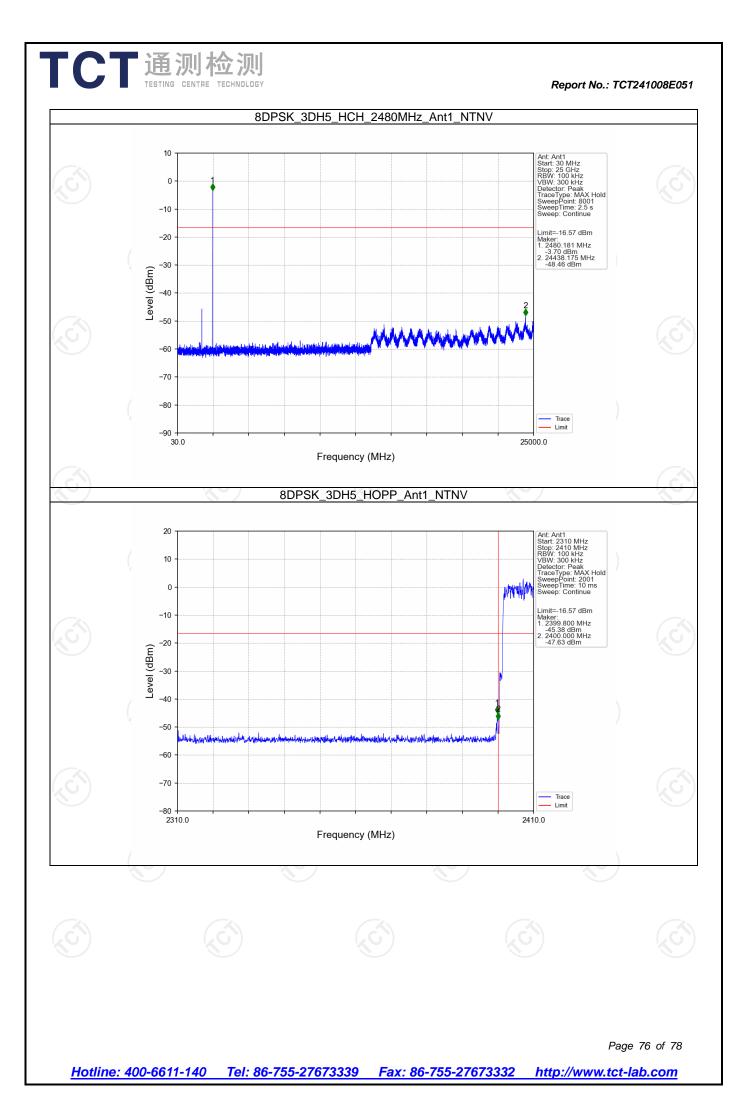


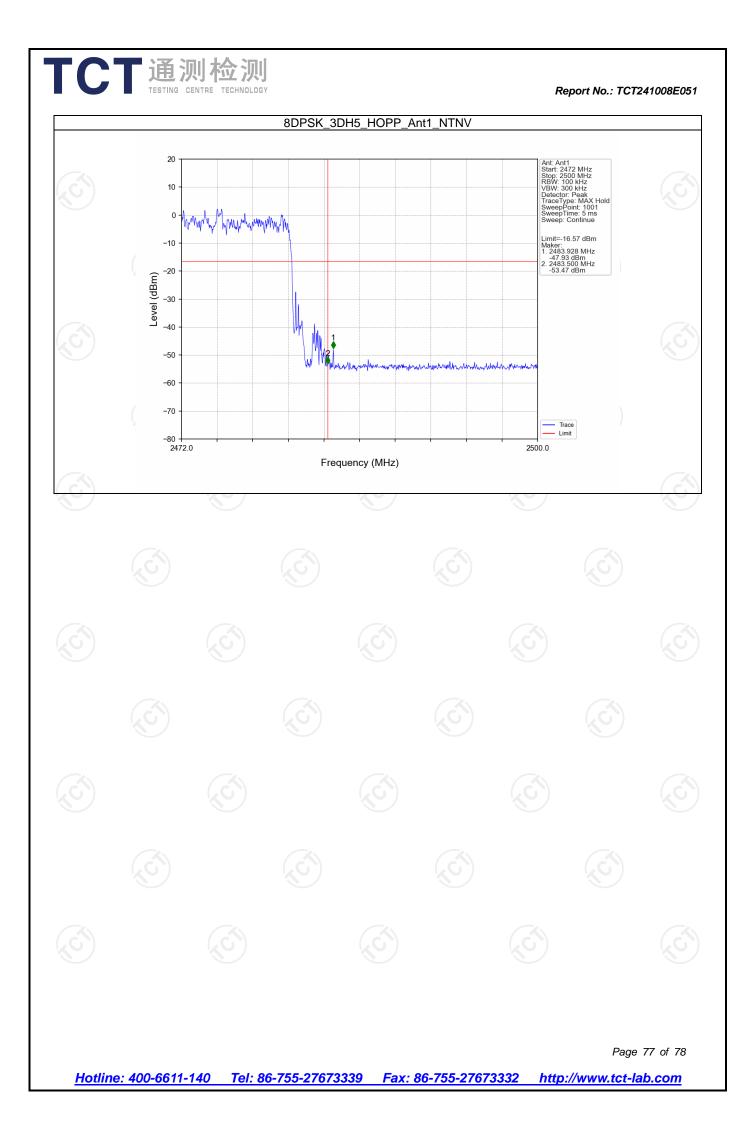


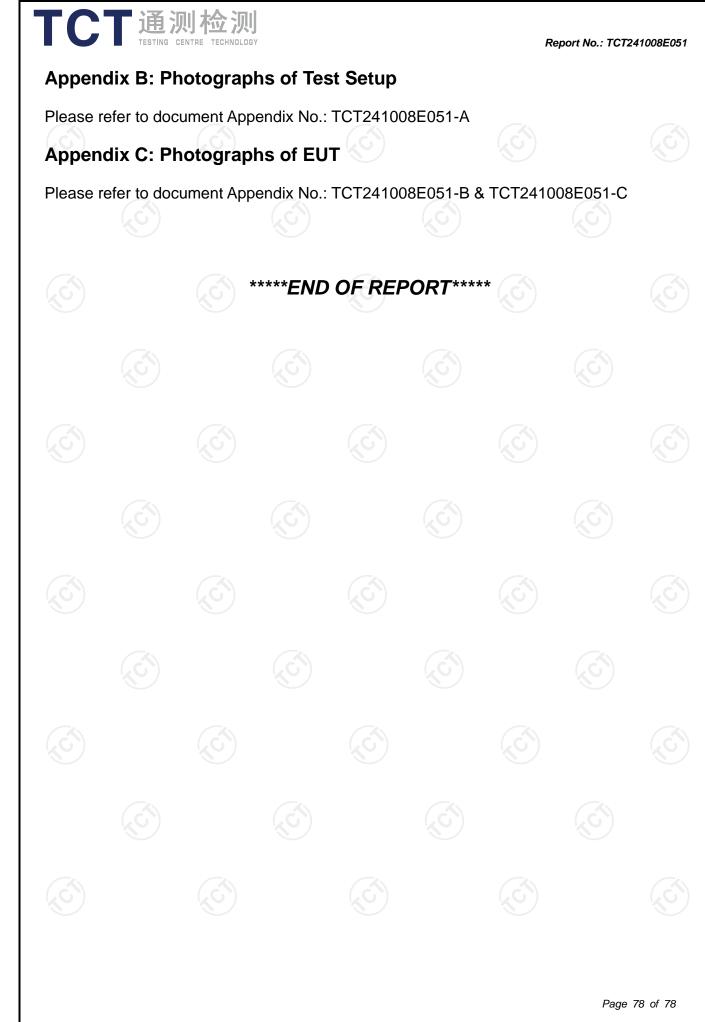












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