



TEST REPORT

For

Wireless Headset

Model Number:A18, J19

Prepared for: Shenzhen Pengxinfu Technology Co.,Ltd
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Report NO.: NCT26028389E1-1
Date of Test: Jul. 02, 2026 to Jul. 22, 2026
Date of Report: Jul. 22, 2026

Shenzhen NCT Testing Technology Co.,Ltd.

Applicant: Address:	Shenzhen Pengxinfu Technology Co.,Ltd Unit 1, 2nd Floor, Building C, Hongfa Industrial Zone, No. 268 Furong Road, Guxing Community, Xixiang Subdistrict, Bao'an District Shenzhen, 518000 China		
Manufacturer: Address:	Shenzhen Pengxinfu Technology Co.,Ltd Unit 1, 2nd Floor, Building C, Hongfa Industrial Zone, No. 268 Furong Road, Guxing Community, Xixiang Subdistrict, Bao'an District Shenzhen, 518000 China		
E.U.T:	Wireless Headset		
Model Number:	A18, J19		
Trade Name:	LED Driver		
Date of Receipt:	Jul. 02, 2026	Date of Test:	Jul. 02, 2026 to Jul. 22, 2026
Test Specification :	Article2 Paragraph 1, item 19 MIC Notice No.88 Appendix No.43		
Test Result:	The equipment under test was found to be compliance with the requirements of the standards applied.		
Tested by: Shine Wu Shine Wu / Engineer		Reviewed by: Keven Wu Keven Wu / Supervisor	Approved by: Henry Wang Henry Wang / Supervisor
Issue Date: Jul. 22, 2026			
			
Other Aspects: None.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen NCT Testing Technology Co., Ltd.			

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1. SUMMARY OF TEST RESULTS

1.1. TEST PROCEDURES ACCORDING TO THE TECHNICAL STANDARDS

article 49.20			
Standard Section	Test Item	Judgment	Remark
General provisions			
5	Frequency Error	PASS	
6	Occupied Bandwidth	PASS	
7	Spurious Emissions Intensity	PASS	
Transmitting equipment			
14	Antenna Power	PASS	
14.2	SAR	N/A	
Transmitting antenna			
20	Type, Configuration, etc., of Transmitting Antenna	PASS	
22	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS	
Receiving antenna			
24	Limitation of Collateral Emission of Receiver	PASS	
26	Refer to All Articles for Transmitting Antenna	PASS	
Operating frequency 2400~2483MHz			
49.20(1); a	RF Shielding Method	PASS	
49.20(1); a	Communication Method	PASS	
49.20(1); b	Spread-spectrum Method	PASS	
49.20(1); c	Antenna Power	PASS	
49.20(1); d	EIRP power	PASS	
4.7	Transmission Radiation Angle Width (3dB Bandwidth)	N/A	
49.20(1); e	Spread-Spectrum Bandwidth	Only for reported	
49.20(1); f	Spreading Factor	Only for reported	
49.20(1); g	Hopping Frequency Dwell Time (FH employed)	PASS	
Article 9-4.5	Interference Prevention Function	PASS	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20
- (3) It is unnecessary to testing, when a E.I.R.P. is less than 12.14dBm.

1. 2. TEST FACILITY

Site Description

EMC Lab.:

Accredited by CNAS, 2022-09-27

The certificate is valid until 2028.01.07

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L8251

Designation Number: CN1347

Test Firm Registration Number: 894804

Accredited by A2LA, June 14, 2023

The Certificate Registration Number is 6837.01

Accredited by Industry Canada, November 09, 2018

The Conformity Assessment Body Identifier is CN0150

Company Number: 30806

Name of Firm: Shenzhen NCT Testing Technology Co., Ltd.

Site Location: A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District, Shenzhen, People's Republic of China

1. 3. MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
RF frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Total RF power, conducted	$\pm 0.8\text{dB}$
Spurious emissions, conducted	$\pm 0.8\text{dB}$
DC and low frequency voltages	$\pm 3\%V$
Humidity	$\pm 5\%$
Temperature	$\pm 1^{\circ}\text{C}$

1. 4. VERSION

Report No.	Version	Description	Approved
NCT26028389E1-1	Rev.01	Initial issue of report	Jul. 22, 2026

2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Wireless Headset	
Sample ID	NCT26027151-001	
Sample(s) Status:	Engineer sample	
Model Name	A18	
Series Model:	J19	
Model Different.:	All models are the same except for the model name and color.	
Product Description	Operation Frequency:	2402~2480MHz
	Modulation Type:	FHSS
	Bit Rate of Transmitter:	GFSK, $\pi/4$ -DQPSK, 8DPSK
	Number Of Channel:	79 CH
	Antenna Type:	Chip Antenna
	Antenna Gain(Peak):	2.67 dBi
Channel List	Please refer to the Note 2.	
Power Source	DC 5V from adapter input AC 120V/60Hz or DC 3.7V from Battery	
Hardware Version	V1.0	
Software Version	V1.0	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
-

Operation Frequency each of channel							
Chann el	Frequency	Chann el	Frequency	Chan nel	Frequency	Chan nel	Frequency
00	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
01	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
02	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
03	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
04	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
05	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
06	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
07	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
08	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
09	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz

15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
20	2421MHz	39	2441MHz	60	2461MHz		

3. Table for Filed Antenna

ANT	Brand	Model Name	Antenna Type	Gain (dBi)	NOTE
1	N/A	ANT	Chip antenna	2.67	N/A

4. Testing environment

Temperature range: 23.5℃, Humidity range: 56.2%, Atmospheric Pressure: 101.32 Kpa.

2.2. DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. All the test modes were tested.

Pretest Mode	Description
Mode 1	GFSK, $\pi/4$ -DQPSK, 8DPSK (CH00)
Mode 2	GFSK, $\pi/4$ -DQPSK, 8DPSK (CH39)
Mode 3	GFSK, $\pi/4$ -DQPSK, 8DPSK(CH78)
Mode 4	Hopping/GFSK, $\pi/4$ -DQPSK, 8DPSK
Mode 5	TX

Final Test Mode	Description
Mode 1	GFSK, $\pi/4$ -DQPSK, 8DPSK (CH01)
Mode 2	GFSK, $\pi/4$ -DQPSK, 8DPSK (CH39)
Mode 3	GFSK, $\pi/4$ -DQPSK, 8DPSK (CH78)
Mode 4	Hopping/GFSK, $\pi/4$ -DQPSK, 8DPSK
Mode 5	RX

2.3. TEST CONDITIONS

The BT module was tested while in a continuous transmitter/receiver mode. The EUT was tuned to a low, middle, and high channel for all tests. For all test case pre/scans were completed in all Modes to determine worst case levels.

Voltage Fluctuation Test		Normal Voltage	High Voltage: Normal Voltage+ 10% of Normal Voltage	Low Voltage: Normal Voltage- 10% of Normal Voltage
Test Voltage		DC3.7V	DC 4.07V	DC 3.33V
Chip Voltage		3.30	3.303	3.301
Voltage error(%)	Result	Ref.level	0.09	0.03

Note:

Voltage Variation (%)

= (Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

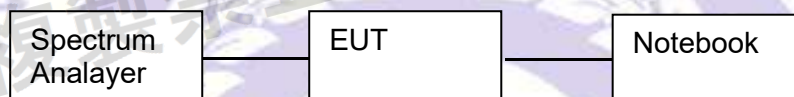
2. 4. TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	FCC_assist_1.0.2.2		
Frequency	2402MHz	2441 MHz	2480 MHz
Parameters	Default	Default	Default

2. 5. BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode :



2. 6. DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Serial	Equipment	Brand	Model/Type No.	Series No.	Note
1	Notebook	ASUS	X1502Z	N/A	Auxiliary
2	serial port	N/A	USB to TTL	N/A	Auxiliary

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.7. EQUIPMENTS LIST FOR ALL TEST ITEMS

Test Equipment

Name	Model NO.	Serial NO.	Manufacturer	Date of Cal.	Due Cal. Date	Calibration Lab	Calibration Method	Equipment State
MXG Signal Analyzer	N9020A	MY50510202	Agilent	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal
MXG Vector Signal Generator	N5182A	MY50140020	Agilent	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal
MXG Analog Signal Generator	N5181A	MY47420919	Agilent	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal
Power Sensor	TR1029-2	512364	Techoy	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal
RF Switch	TR1029-1	512364	Techoy	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal
Power Meter	TR1029-3	512364	Techoy	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal
Attenuation	PCL-10dB	221126	HTEC	2026/6/05	2027/6/04	Guangzhou LiSai Metrology & Test Co., Ltd.	c	Normal

Other

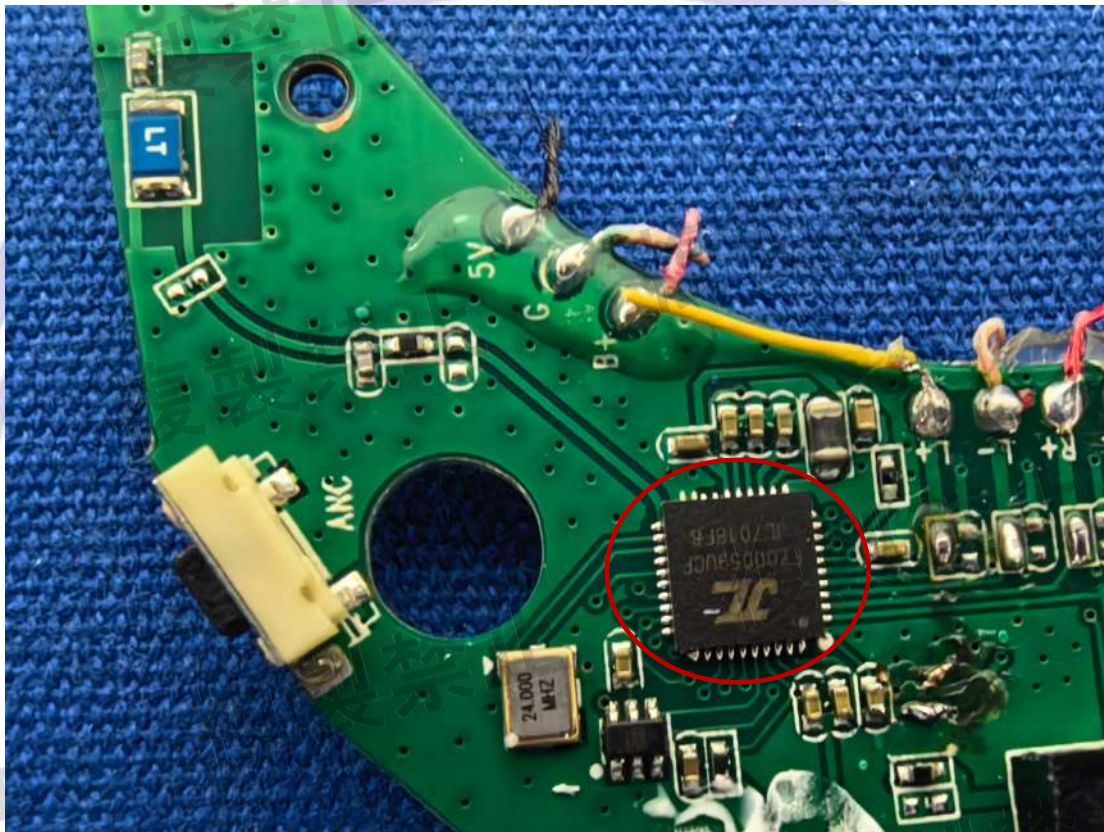
Item	Name	Manufacturer	Model	Software version
1	RF test system	TACHOY	RF Test	V1.0.0
2	RF communication test system	TACHOY	RF Test	V1.0.0

Note: Calibration Method

- Calibration conducted by the National Institute of Information and Communications Technology(NICT) or a designated calibration agency under Article 102-18 paragraph (1) of the Radio Law.
- Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
- Calibration conducted by using other equipment that listed above from a) to c).

Our products apply for RF certification in Japan. The high frequency part and modulation part use SMT technology, which is not easy to change. (An integrated IC for the high-frequency band or modulation band, or multiple such ICs, should meet the following two requirements: The chip is equal or greater than 10 chip pins, and the pin distance is less than or equal to 1.5mm.). Number of RF chip pins: 40, spacing distance: 0.8 mm (please see picture).

Picture 1



3. TEST RESULT FOR BLUETOOTH

3.1. FREQUENCY ERROR

3.2. LIMIT

Item	Limits
Frequency Error	$\pm 50\text{ppm}$

3.3. MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

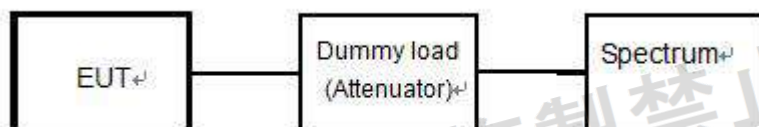
Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	10KHz/10KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.4. TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

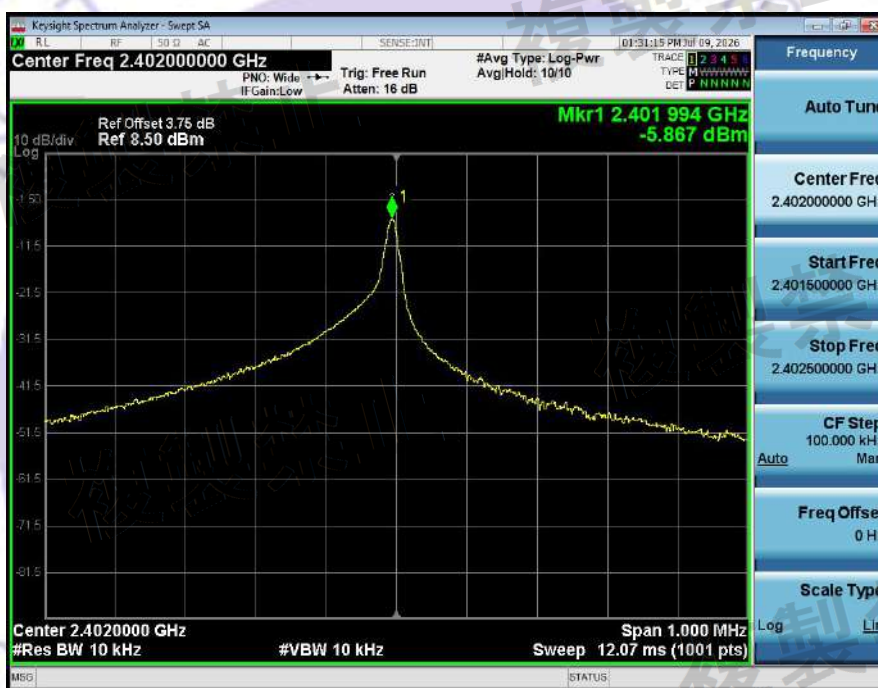
3.5. TEST SETUP LAYOUT



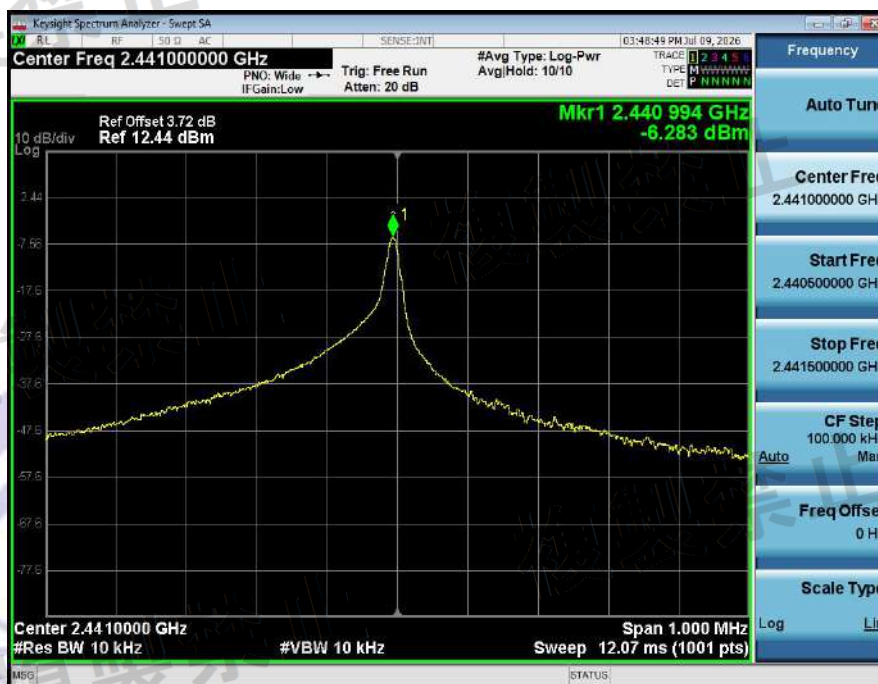
3.6. TEST RESULT

	Frequency (MHz)	Reading	Tolerance	Limit	Result
		MHz	ppm	ppm	
Single carrier	2402	2401.994	-2.498	±50	Pass
	2441	2440.994	-2.458	±50	
	2480	2479.994	-2.419	±50	

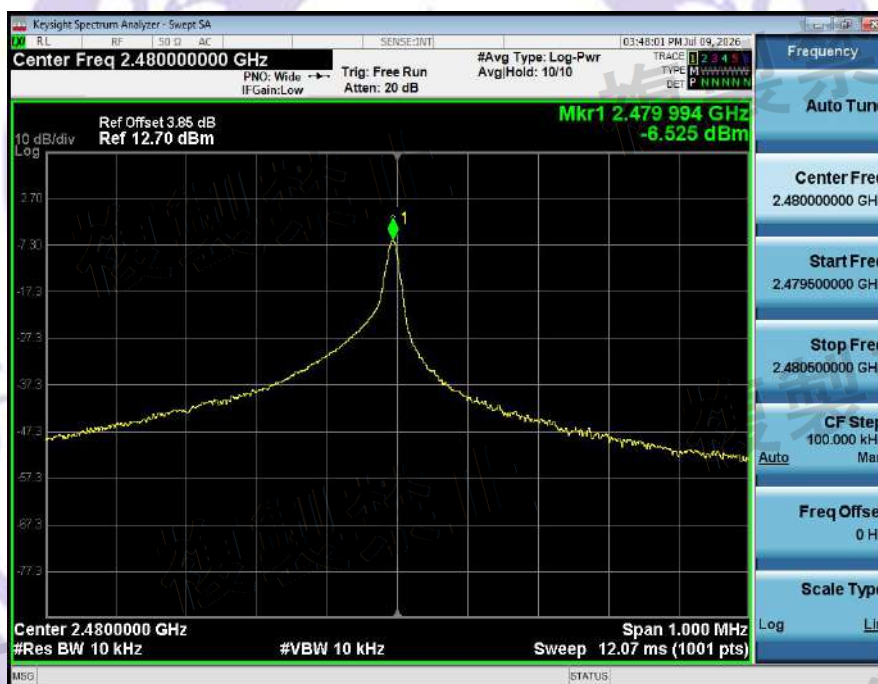
2402MHz



2441MHz



2480MHz



4. ANTENNA POWER

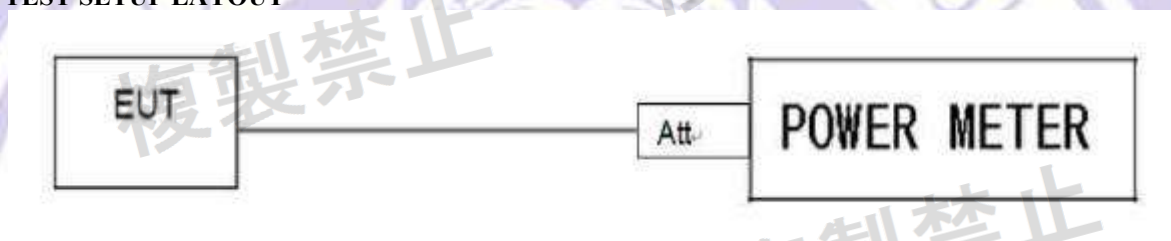
4.1. LIMIT

Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2402 - 2480 MHz) $\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	$\leq 20\%$
E.i.r.p:	$\leq 6.91\text{dBm/MHz}$ (FHSS)

4.2. TEST PROCEDURES

1. The EUT was directly connected to the power meter.
2. The EUT was set to frequency hopping mode.

4.3. TEST SETUP LAYOUT



4.4. TEST DEVIATION

There is no deviation with the original standard.

4.5. TEST RESULT

	Mode	Power (dBm)	Power (mW)	Spread Bandwidth (MHz)	Ant Power (mW/MHz)	Limit (mW/MHz)	Rated power (mW/MHz)	Tolerance	Limit	Result
GFSK	Hopping	14.95	31.25	71.59	0.4365	3	1.0	-0.9337	$\leq 20\%$	Pass
$\pi/4$ -DQPSK	Hopping	14.59	28.75	71.68	0.4011	3	1.0	-1.2964	$\leq 20\%$	Pass
8DPSK	Hopping	14.08	25.6	71.71	0.3570	3	1.0	-1.8028	$\leq 20\%$	Pass

Remark: Ant Power(mW/MHz) = Power(mW)/Spread Bandwidth(MHz)

	Mode	Ant Power (mW/MHz)	Ant Power (dBm/MHz)	Ant Gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Result
GFSK	Hopping	0.4365	-3.6000	2.67	-0.93	6.91	Pass
$\pi/4$ -DQPSK	Hopping	0.4011	-3.9676	2.67	-1.2976	6.91	Pass
8DPSK	Hopping	0.3570	-4.4734	2.67	-1.8034	6.91	Pass

5. OCCUPIED BANDWITH (99%&90%)

5.1. LIMIT

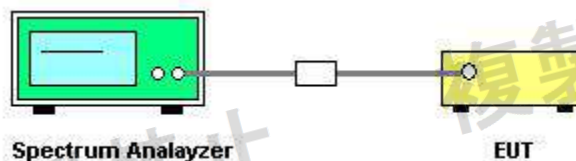
Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM,DS $\leq$ 26MHz;Others $\leq$ 26MHz
Spreading Bandwidth:	/

5.2. MEASURING INSTRUMENTS AND SETTING

5.3. TEST PROCEDURES

- Setting of SA is following as: RB: 1M / VB:1M / SPAN: 180MHz /Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device).
SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).
- SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth

5.4. TEST SETUP LAYOUT



5.5. TEST DEVIATION

There is no deviation with the original standard.

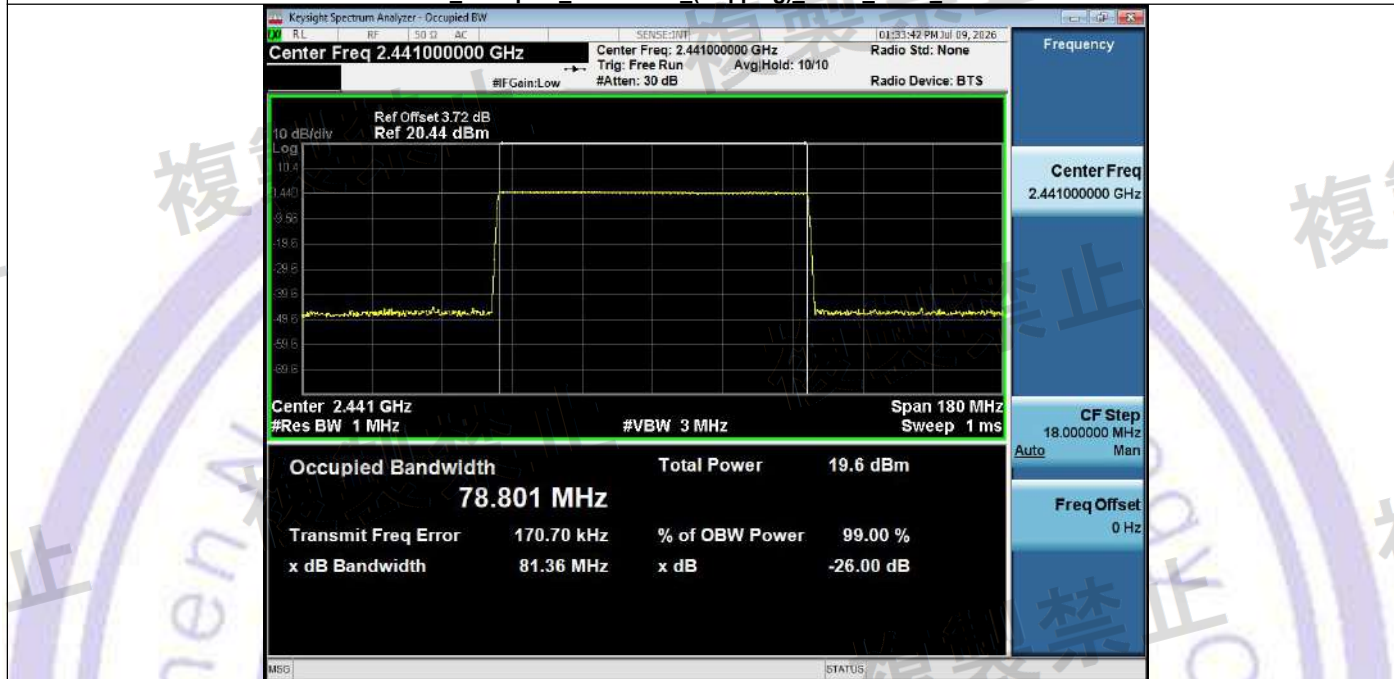
5.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

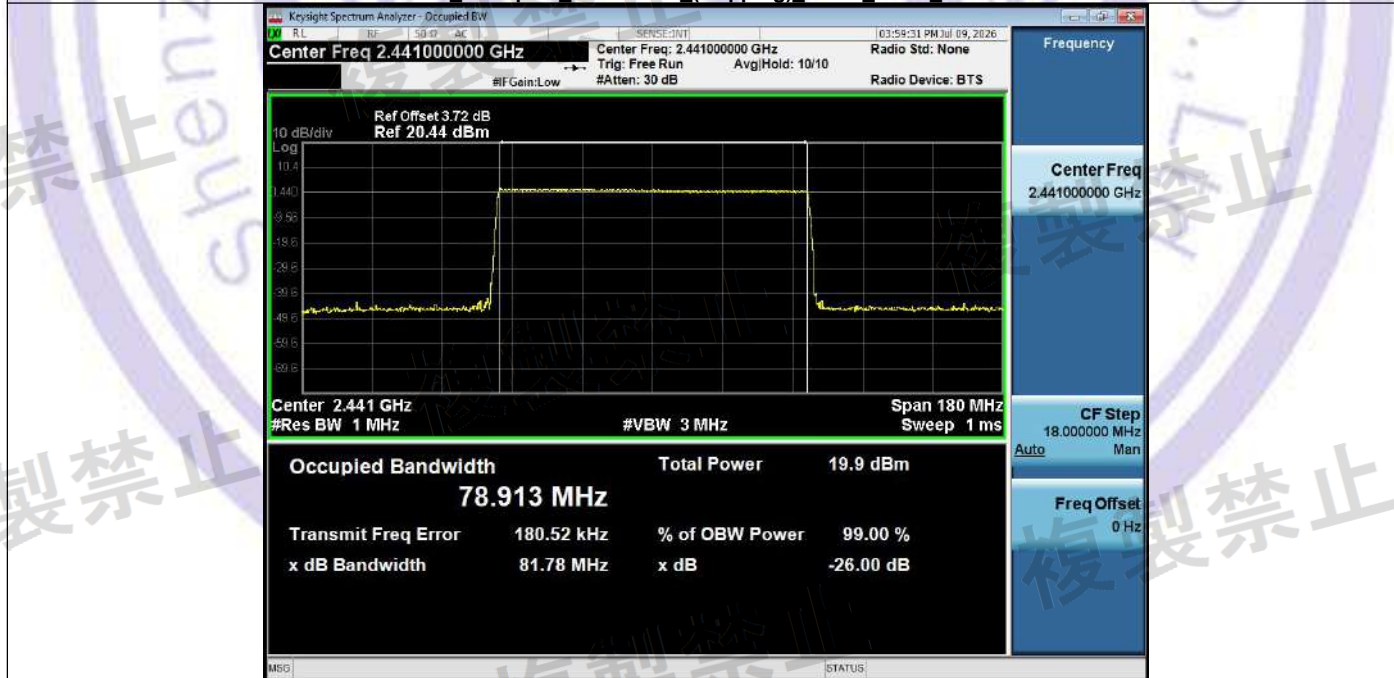
5.7. TEST RESULT

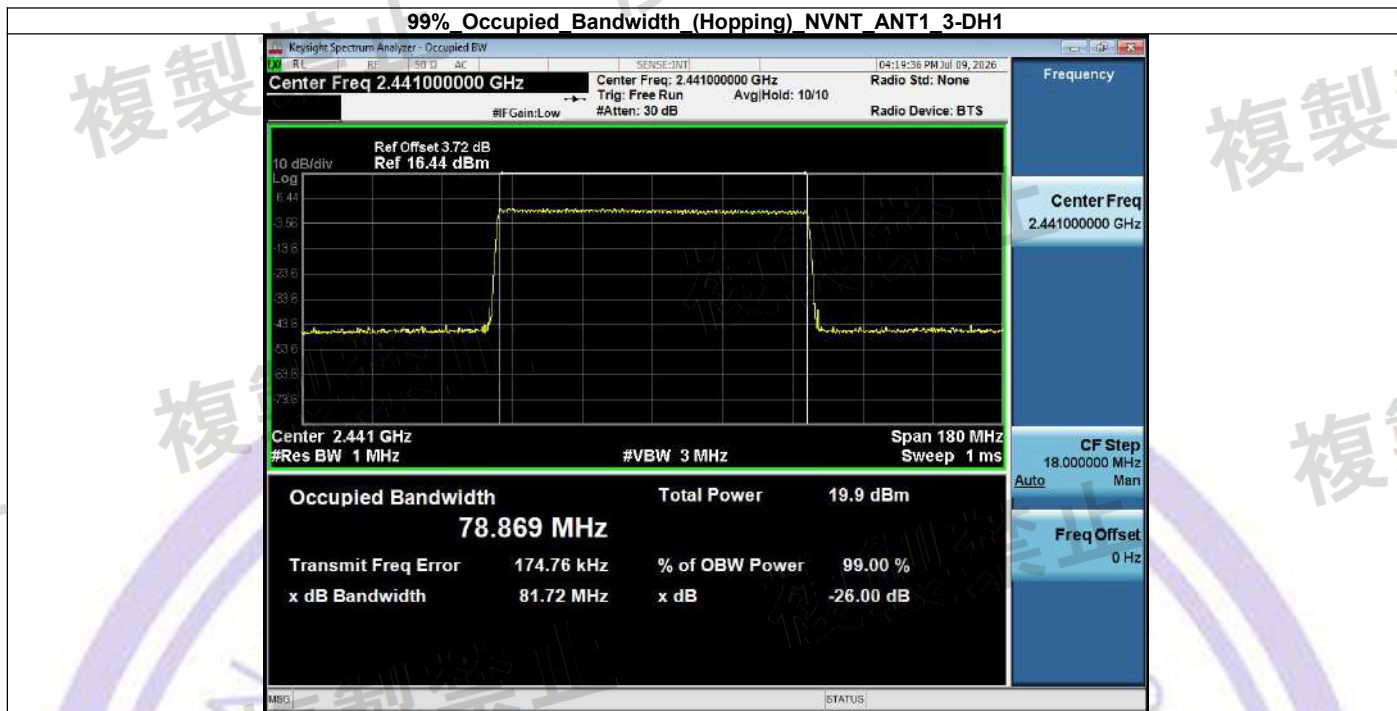
Modulation	mode	99% Occupied Bandwidth(MHz)	Limit(MHz)	Result
GFSK(1-DH1)	Hopping	78.80	83.50	Pass
π /4-DQPSK(2-DH1)	Hopping	78.91	83.50	Pass
8DPSK(3-DH1)	Hopping	78.87	83.50	Pass

99% Occupied Bandwidth (Hopping) NVNT ANT1_1-DH1



99% Occupied Bandwidth (Hopping) NVNT ANT1_2-DH1





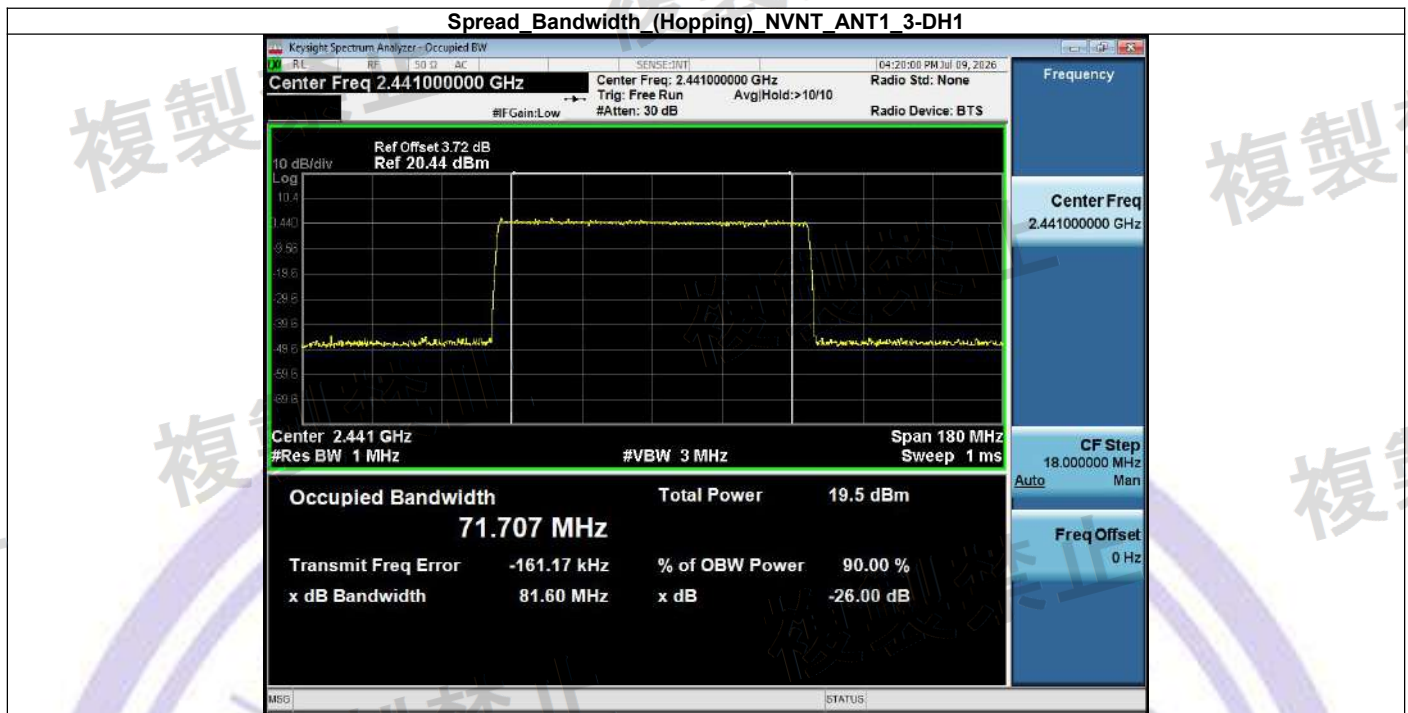
Modulation	mode	Spread Bandwidth(MHz)	Rate(Msymbol/s)	Spread Factor
GFSK(1-DH1)	Hopping	71.59	1	71.59
$\pi/4$ -DQPSK(2-DH1)	Hopping	71.68	1	71.68
8DPSK(3-DH1)	Hopping	71.71	1	71.71

Spread Bandwidth (Hopping) NVNT_ANT1_1-DH1



Spread Bandwidth (Hopping) NVNT_ANT1_2-DH1





6. UNWANTED EMISSION INTENSITY MEASUREMENT

6.1. LIMIT

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W/MHz}(-26\text{dBm})$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}(-26\text{dBm})$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}(-16\text{dBm})$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W/MHz}(-16\text{dBm})$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W/MHz}(-26\text{dBm})$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

6.2. MEASURING INSTRUMENTS AND SETTING

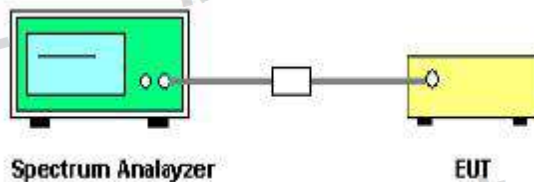
Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Below 1G	Above 1G
	Setting	Setting
Attenuation	Auto	Auto
RB / VB	1MHz	1MHz
Detector	Peak	Peak
Trace	Max Hold	Max Hold
Sweep Time	Auto	Auto

6.3. TEST PROCEDURES

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB:1MHz / VB:1MHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW/MHz.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW/MHz
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW/MHz
- Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
- If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

6. 4. TEST SETUP LAYOUT



6. 5. TEST DEVIATION

There is no deviation with the original standard.

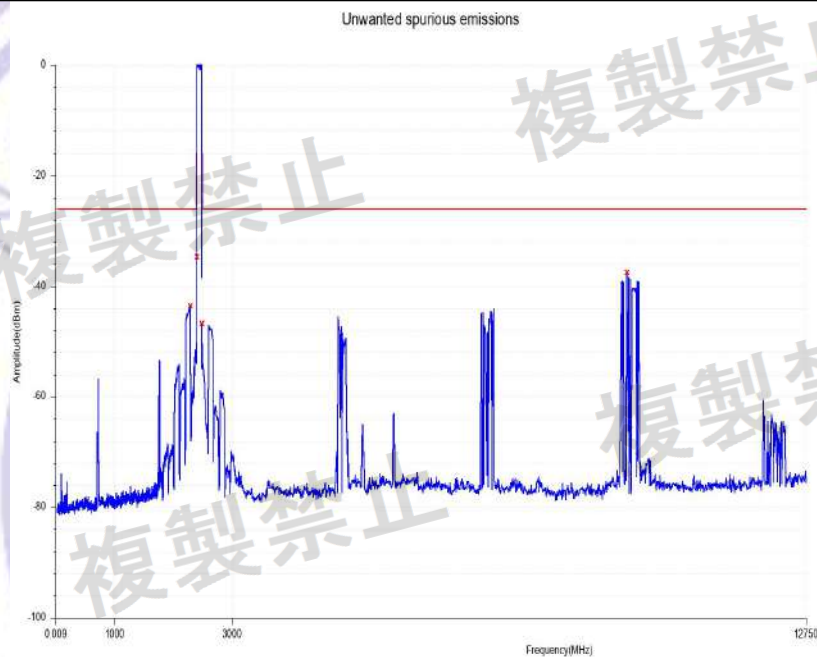
6.6. TEST RESULT

Condition	Antenna	Mode	Frequency(MHz)	Frequency Area(MHz)	RBW(kHz)	Spur. Fre.(MHz)	Spur. Level(dBm/MHz)	Limit(dBm/MHz)	Spur. Level	Limit	Result
NVNT	ANT1	1-DH1	Hopping	30.00~2387.00	1000	2288.01	-43.58	-26	0.0438μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2387.00~2400.00	1000	2399.96	-34.62	-16	0.3455μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	1-DH1	Hopping	2483.50~2496.50	1000	2483.98	-46.73	-16	0.0212μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2496.50~12750.00	1000	9714.96	-37.54	-26	0.1762μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	2402.00	30.000000~2387.000000	1000	2210.22	-44.83	-26	0.0328μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	2402.00	2387.000000~2400.000000	1000	2399.95	-34.93	-16	0.3214μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	2402.00	2400.000000~2483.500000	/	/	/	/	/	/	/
NVNT	ANT1	1-DH1	2402.00	2483.500000~2496.500000	1000	2496.06	-54.85	-16	0.0032μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	2402.00	2496.500000~12750.000000	1000	9612.43	-38.34	-26	0.1466μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	30.00~2387.00	1000	2288.01	-43.70	-26	0.0426μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2387.00~2400.00	1000	2399.91	-37.80	-16	0.1658μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	1-DH1	Hopping	2483.50~2496.50	1000	2483.89	-46.09	-16	0.0245μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2496.50~12750.00	1000	9725.22	-37.86	-26	0.1638μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	2441.00	30.000000~2387.000000	1000	2250.29	-43.64	-26	0.0432μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	2441.00	2387.000000~2400.000000	1000	2398.40	-49.03	-16	0.0125μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	2441.00	2400.000000~2483.500000	/	/	/	/	/	/	/
NVNT	ANT1	1-DH1	2441.00	2483.500000~2496.500000	1000	2488.97	-50.40	-16	0.0091μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	2441.00	2496.500000~12750.000000	1000	9766.23	-38.98	-26	0.1265μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	30.00~2387.00	1000	2288.01	-43.47	-26	0.0449μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2387.00~2400.00	1000	2399.49	-33.98	-16	0.3999μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	1-DH1	Hopping	2483.50~2496.50	1000	2483.58	-43.63	-16	0.0433μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	Hopping	2496.50~12750.00	1000	9714.96	-37.81	-26	0.1654μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	2480.00	30.000000~2387.000000	1000	2288.01	-42.70	-26	0.0536μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	1-DH1	2480.00	2387.000000~2400.000000	1000	2387.81	-55.63	-16	0.0027μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	2480.00	2400.000000~2483.500000	/	/	/	/	/	/	/
NVNT	ANT1	1-DH1	2480.00	2483.500000~2496.500000	1000	2483.51	-40.42	-16	0.0908μW/MHz	25μW/MHz	Pass
NVNT	ANT1	1-DH1	2480.00	2496.500000~12750.000000	1000	9920.03	-39.25	-26	0.1189μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH1	Hopping	30.00~2387.00	1000	2269.15	-43.46	-26	0.0450μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH1	Hopping	2387.00~2400.00	1000	2399.97	-33.80	-16	0.4172μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	2-DH1	Hopping	2483.50~2496.50	1000	2486.75	-44.75	-16	0.0335μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH1	Hopping	2496.50~12750.00	1000	9714.96	-37.86	-26	0.1635μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH1	2402.00	30.000000~2387.000000	1000	2210.22	-45.17	-26	0.0304μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH1	2402.00	2387.000000~2400.000000	1000	2399.99	-31.32	-16	0.7379μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH1	2402.00	2400.000000~2483.500000	/	/	/	/	/	/	/
NVNT	ANT1	2-DH1	2402.00	2483.500000~2496.500000	1000	2495.67	-55.48	-16	0.0028μW/MHz	25μW/MHz	Pass

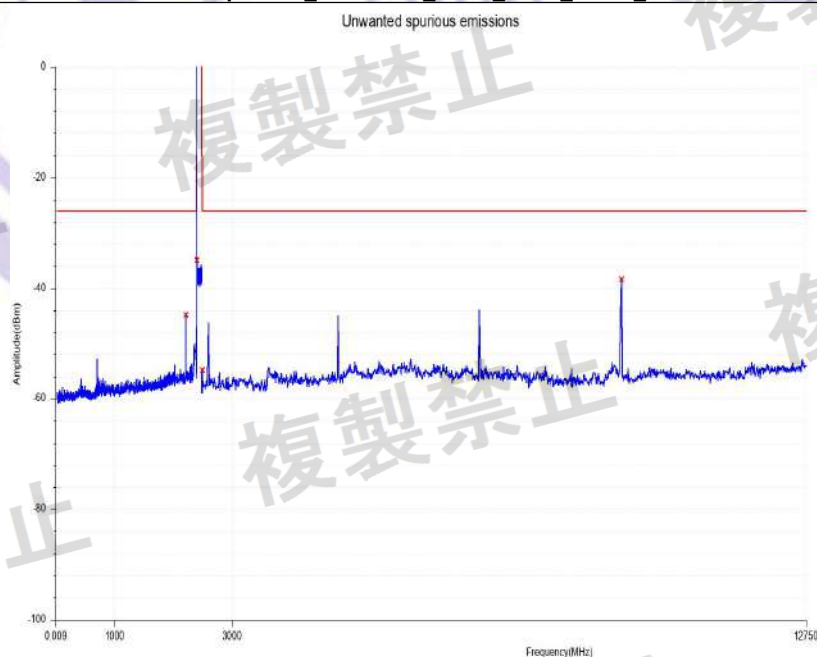
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NVNT	ANT1	2-DH 1	2402.00	2496.500000~12750.00 0000	1000	9612.43	-39.03	-26	0.1249μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	30.00~2387.00	1000	2288.01	-43.34	-26	0.0463μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	2387.00~2400.00	1000	2399.86	-33.03	-16	0.4977μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	2-DH 1	Hopping	2483.50~2496.50	1000	2484.70	-44.53	-16	0.0352μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	2496.50~12750.00	1000	9694.46	-38.16	-26	0.1528μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	2441.00	30.000000~2387.00000 0	1000	2250.29	-43.06	-26	0.0494μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	2441.00	2387.000000~2400.000 000	1000	2398.19	-49.58	-16	0.0110μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	2441.00	2400.000000~2483.500 000	/	/	/	/	/	/	/
NVNT	ANT1	2-DH 1	2441.00	2483.500000~2496.500 000	1000	2489.13	-50.01	-16	0.0099μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	2441.00	2496.500000~12750.00 0000	1000	9766.23	-39.70	-26	0.1071μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	30.00~2387.00	1000	2276.22	-43.54	-26	0.0442μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	2387.00~2400.00	1000	2399.99	-32.05	-16	0.6239μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	2-DH 1	Hopping	2483.50~2496.50	1000	2483.59	-46.93	-16	0.0202μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	Hopping	2496.50~12750.00	1000	9704.71	-37.77	-26	0.1670μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	2480.00	30.000000~2387.00000 0	1000	2288.01	-43.04	-26	0.0496μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	2-DH 1	2480.00	2387.000000~2400.000 000	1000	2389.70	-55.03	-16	0.0031μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	2480.00	2400.000000~2483.500 000	/	/	/	/	/	/	/
NVNT	ANT1	2-DH 1	2480.00	2483.500000~2496.500 000	1000	2483.50	-40.82	-16	0.0828μW/MHz	25μW/MHz	Pass
NVNT	ANT1	2-DH 1	2480.00	2496.500000~12750.00 0000	1000	9920.03	-38.92	-26	0.1283μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	30.00~2387.00	1000	2283.29	-43.76	-26	0.0420μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2387.00~2400.00	1000	2399.53	-34.19	-16	0.3806μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	3-DH 1	Hopping	2483.50~2496.50	1000	2486.46	-44.86	-16	0.0326μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2496.50~12750.00	1000	9704.71	-37.95	-26	0.1602μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	2402.00	30.000000~2387.00000 0	1000	2210.22	-44.87	-26	0.0325μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	2402.00	2387.000000~2400.000 000	1000	2400.00	-30.46	-16	0.8991μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	2402.00	2400.000000~2483.500 000	/	/	/	/	/	/	/
NVNT	ANT1	3-DH 1	2402.00	2483.500000~2496.500 000	1000	2489.16	-55.11	-16	0.0030μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	2402.00	2496.500000~12750.00 0000	1000	9612.43	-38.84	-26	0.1307μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	30.00~2387.00	1000	2269.15	-43.94	-26	0.0403μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2387.00~2400.00	1000	2400.00	-32.93	-16	0.5095μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	3-DH 1	Hopping	2483.50~2496.50	1000	2486.20	-44.85	-16	0.0327μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2496.50~12750.00	1000	9714.96	-37.97	-26	0.1594μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	2441.00	30.000000~2387.00000 0	1000	2250.29	-43.96	-26	0.0401μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	2441.00	2387.000000~2400.000 000	1000	2397.07	-49.12	-16	0.0122μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	2441.00	2400.000000~2483.500 000	/	/	/	/	/	/	/
NVNT	ANT1	3-DH 1	2441.00	2483.500000~2496.500 000	1000	2489.38	-50.18	-16	0.0096μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	2441.00	2496.500000~12750.00 0000	1000	9766.23	-39.74	-26	0.1061μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	30.00~2387.00	1000	2288.01	-43.30	-26	0.0467μW/MHz	2.5μW/MHz	Pass

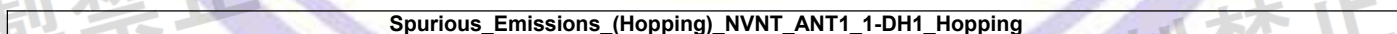
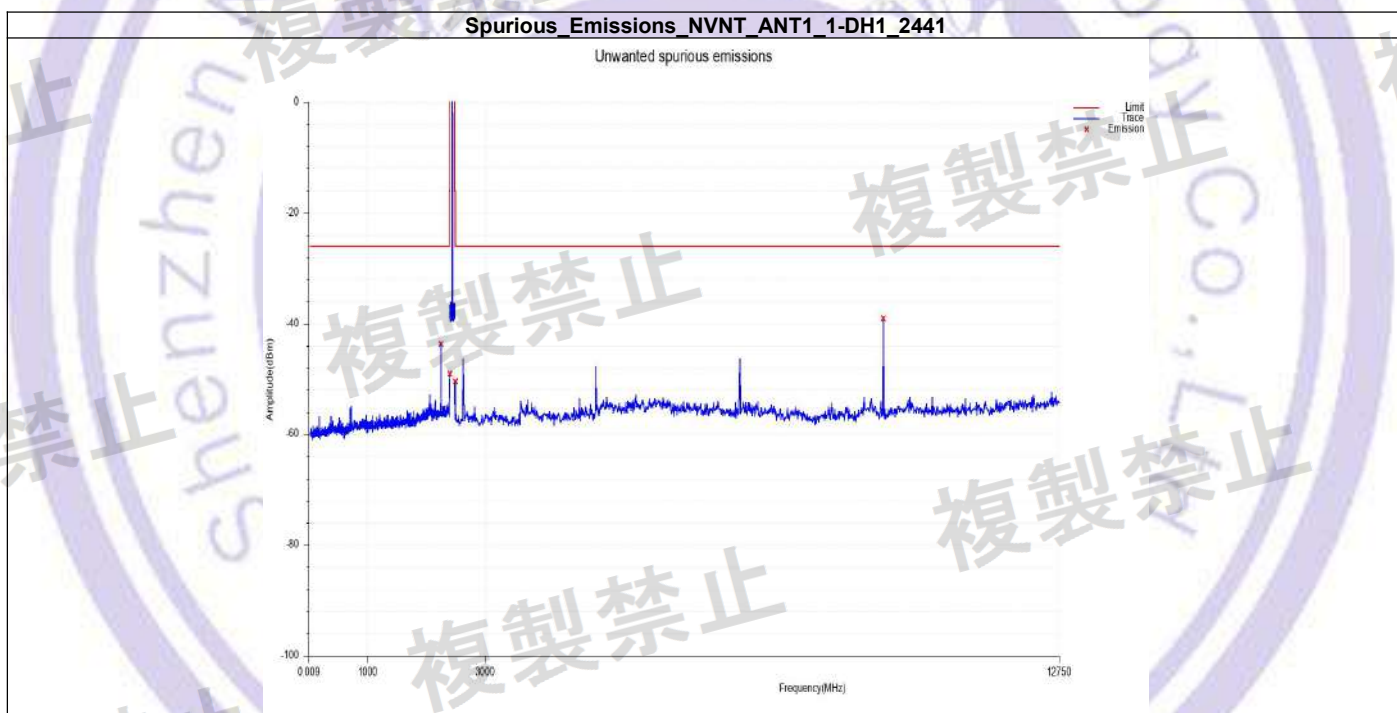
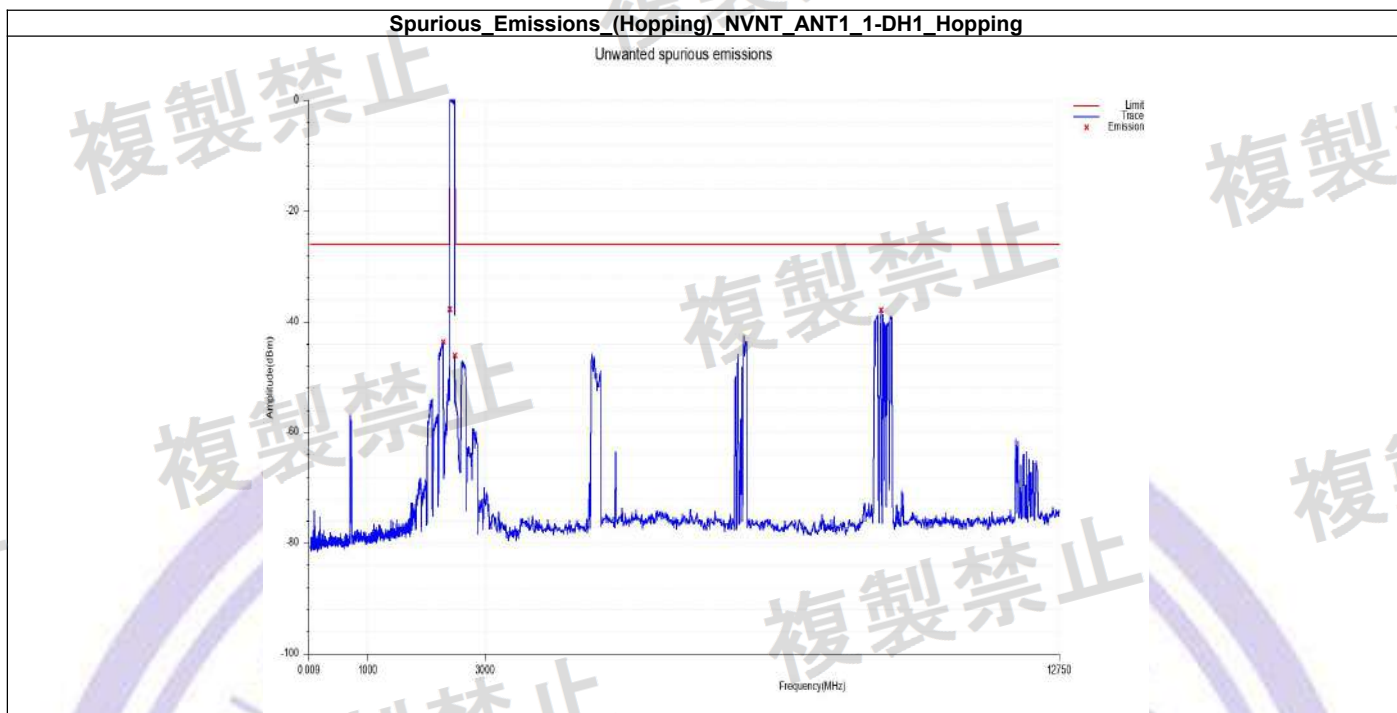
NVNT	ANT1	1	Hopping	2387.00~2400.00	1000	2400.00	-30.78	-16	0.8356μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2400.00~2483.50	/	/	/	/	/	/	/
NVNT	ANT1	3-DH 1	Hopping	2483.50~2496.50	1000	2486.87	-44.84	-16	0.0328μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	Hopping	2496.50~12750.00	1000	9694.46	-38.08	-26	0.1555μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	2480.00	30.000000~2387.00000 0	1000	2288.01	-42.74	-26	0.0532μW/MHz	2.5μW/MHz	Pass
NVNT	ANT1	3-DH 1	2480.00	2387.000000~2400.000 000	1000	2393.20	-55.30	-16	0.0029μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	2480.00	2400.000000~2483.500 000	/	/	/	/	/	/	/
NVNT	ANT1	3-DH 1	2480.00	2483.500000~2496.500 000	1000	2483.53	-40.49	-16	0.0893μW/MHz	25μW/MHz	Pass
NVNT	ANT1	3-DH 1	2480.00	2496.500000~12750.00 0000	1000	9920.03	-39.20	-26	0.1202μW/MHz	2.5μW/MHz	Pass

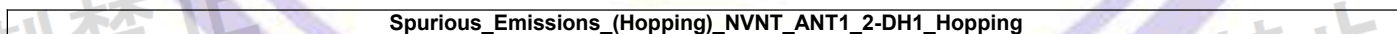
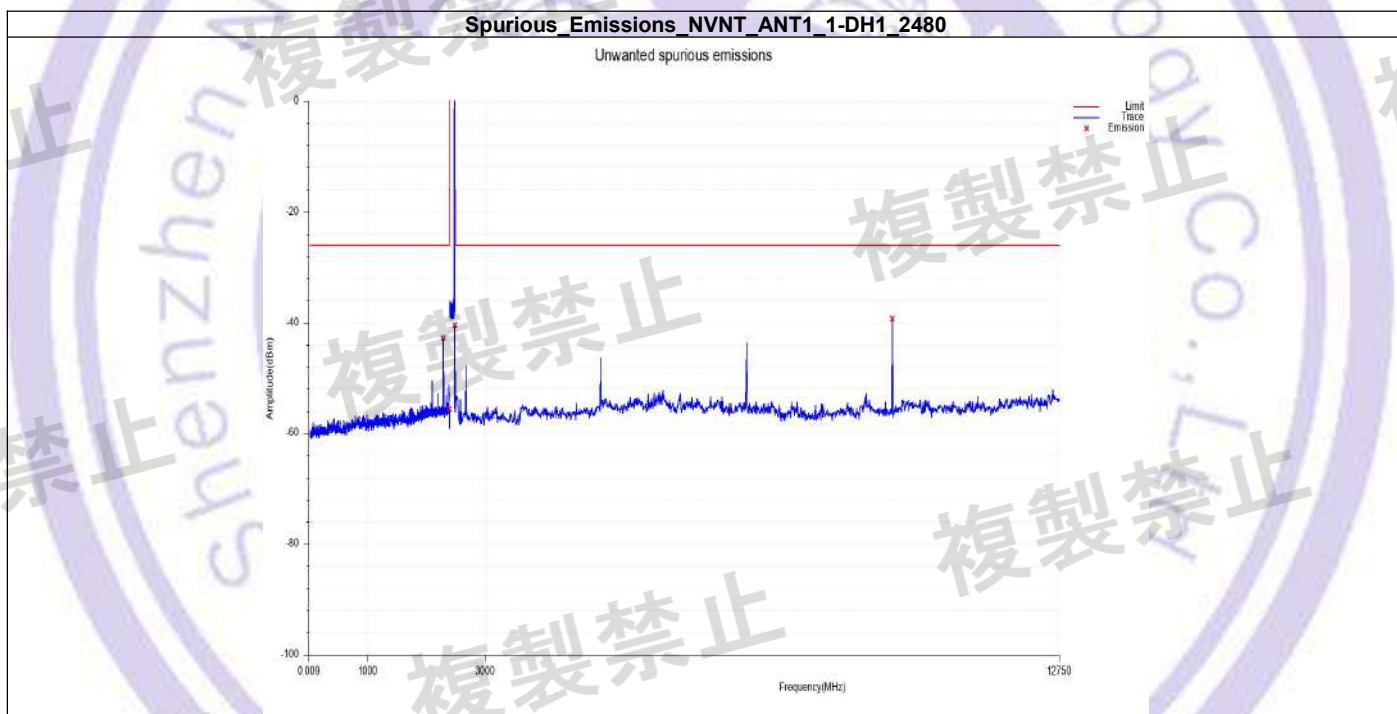
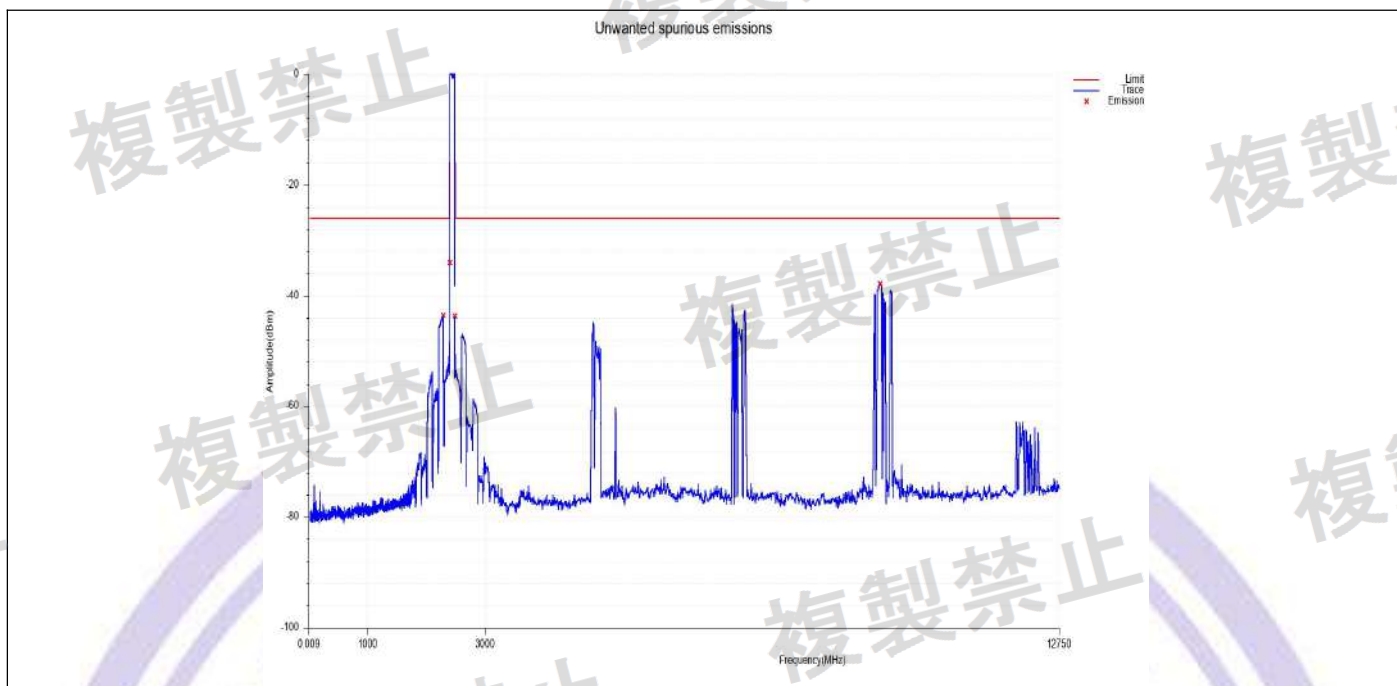
Spurious Emissions (Hopping) NVNT ANT1 1-DH1 Hopping

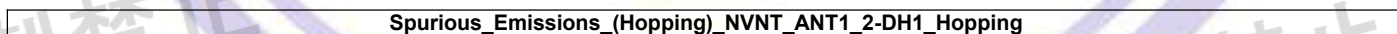
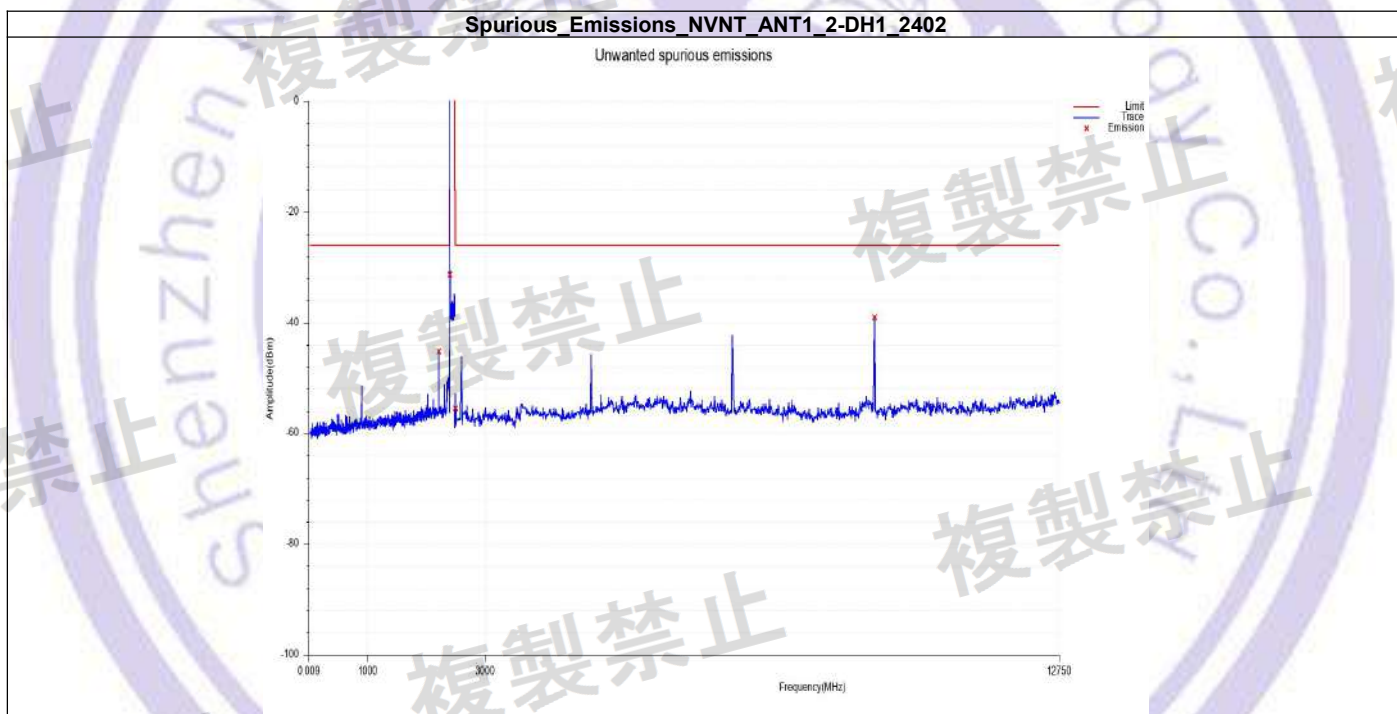
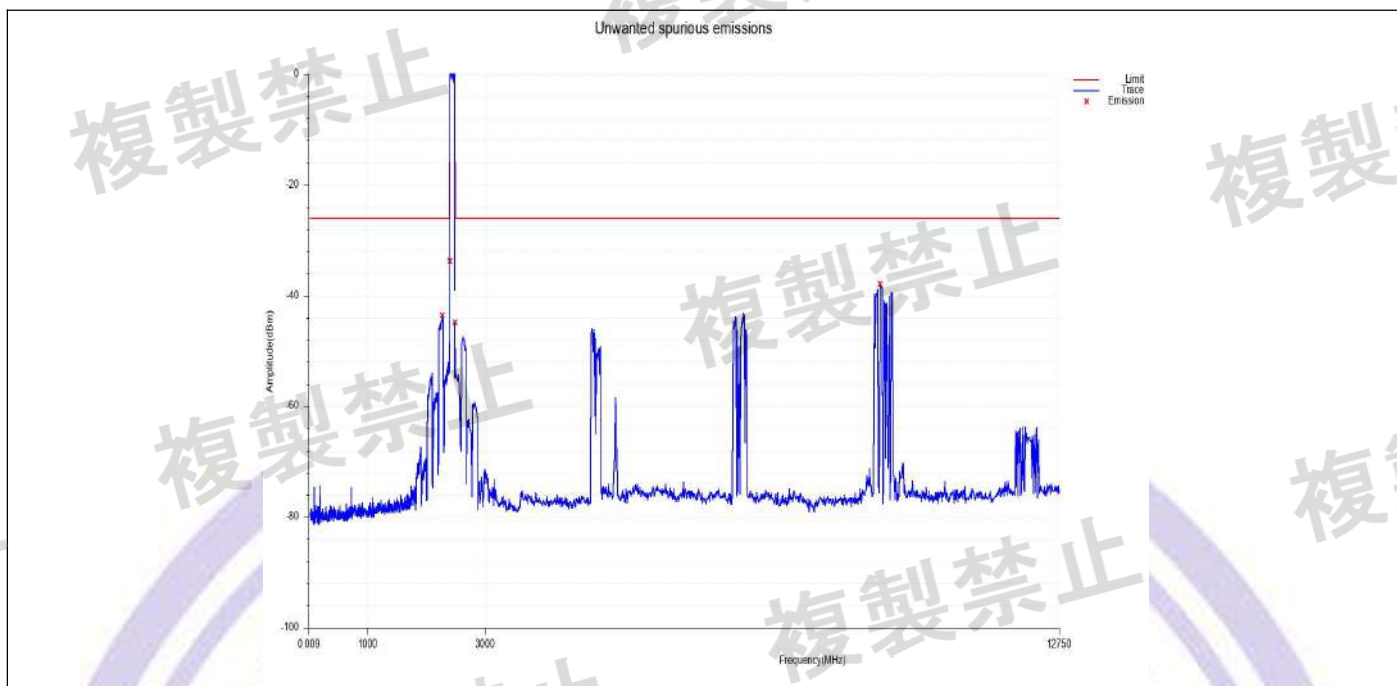


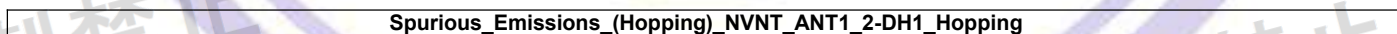
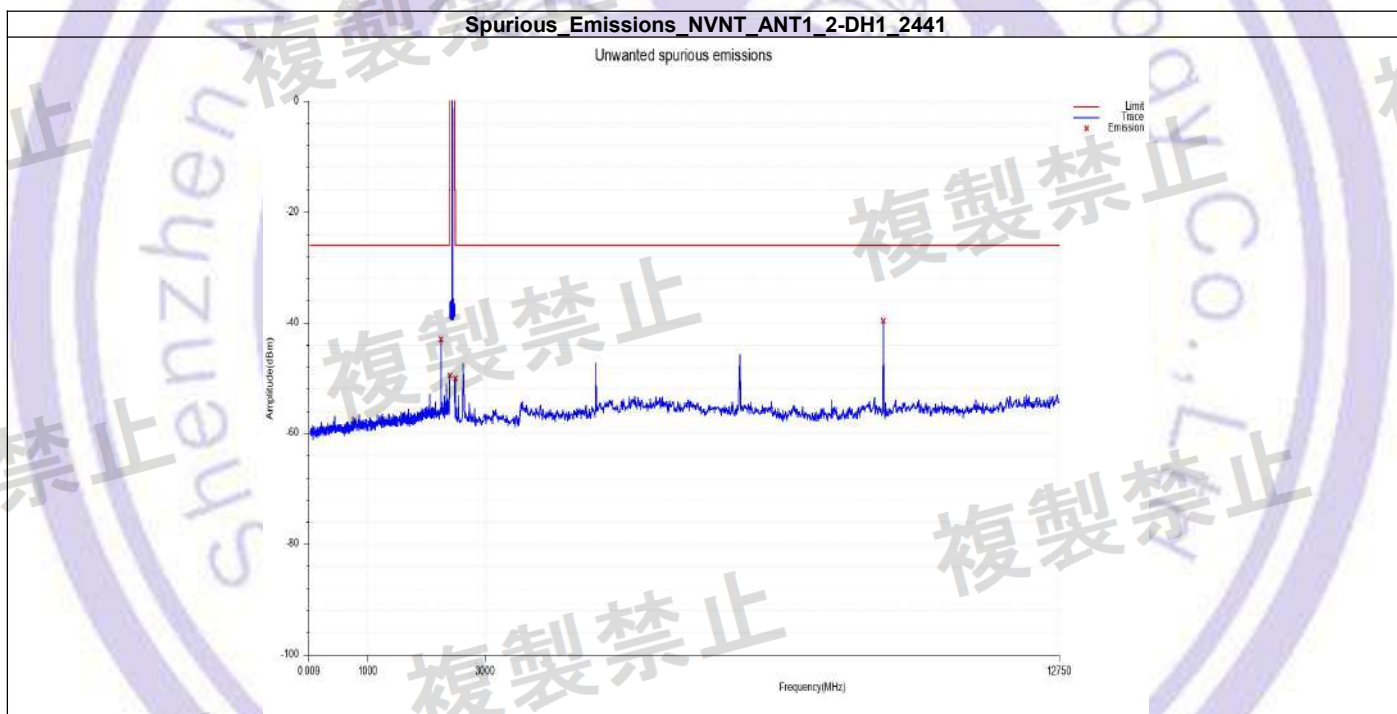
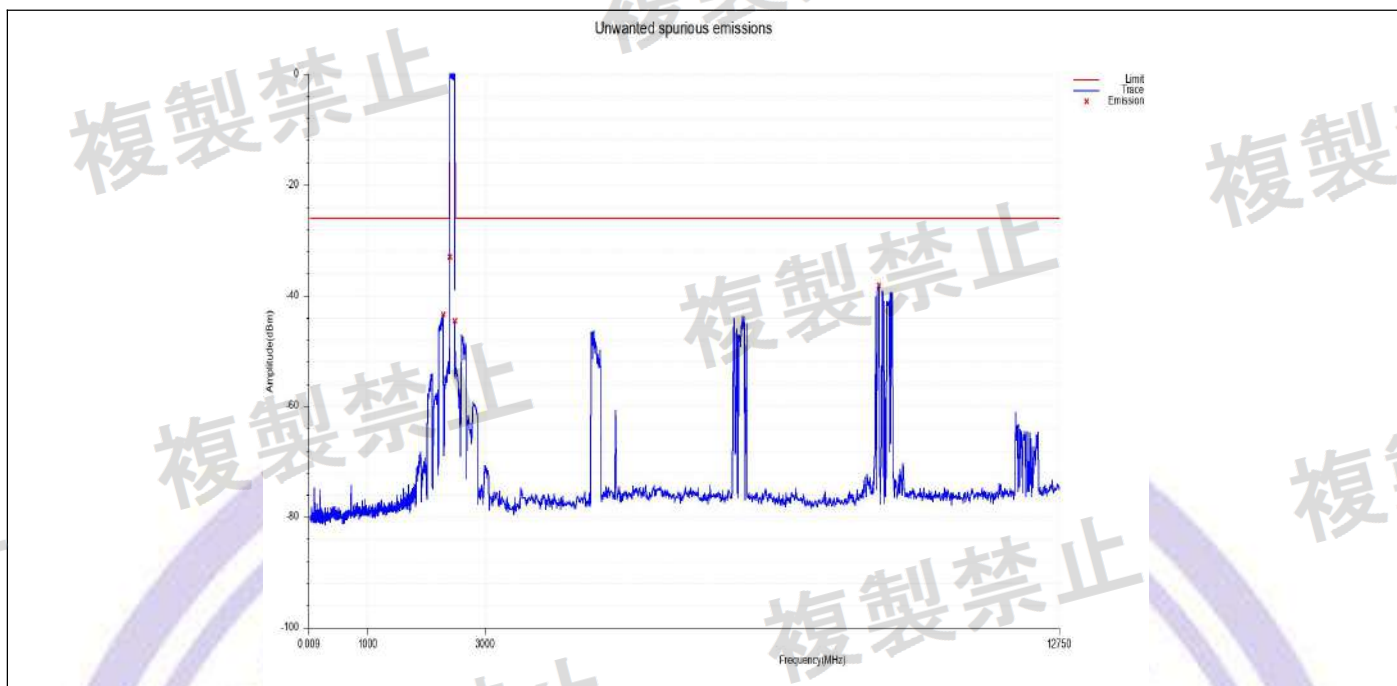
Spurious Emissions NVNT ANT1 1-DH1 2402

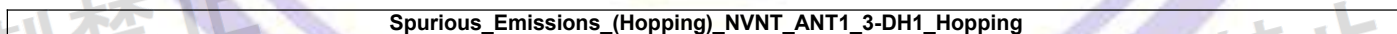
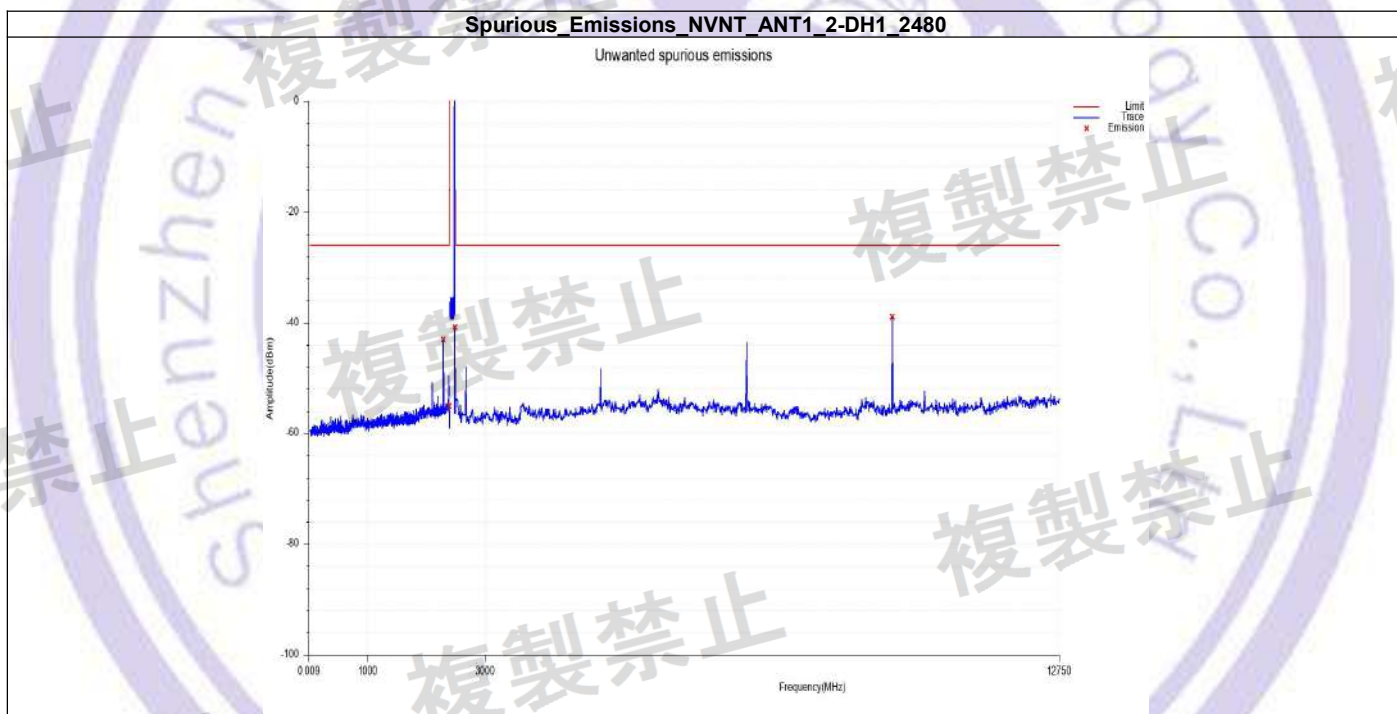
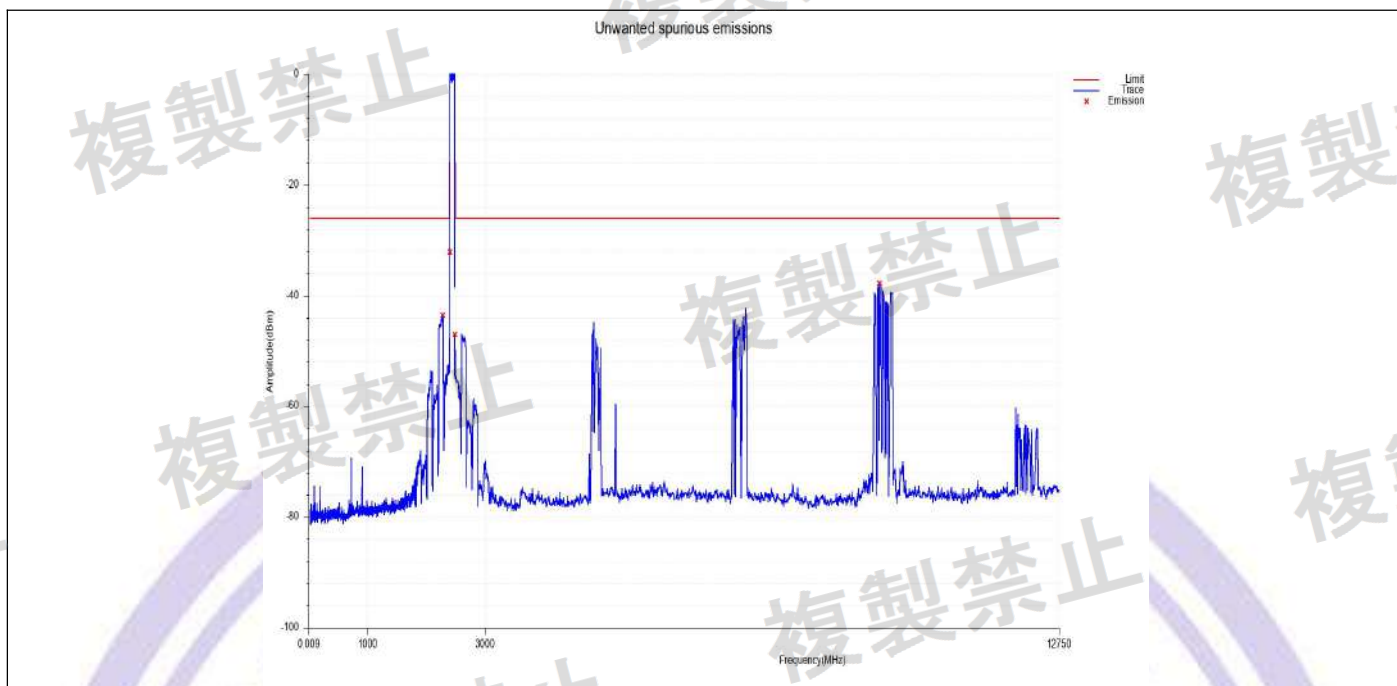


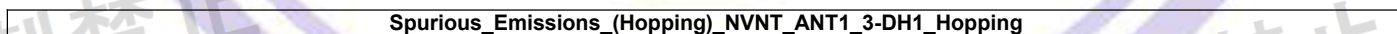
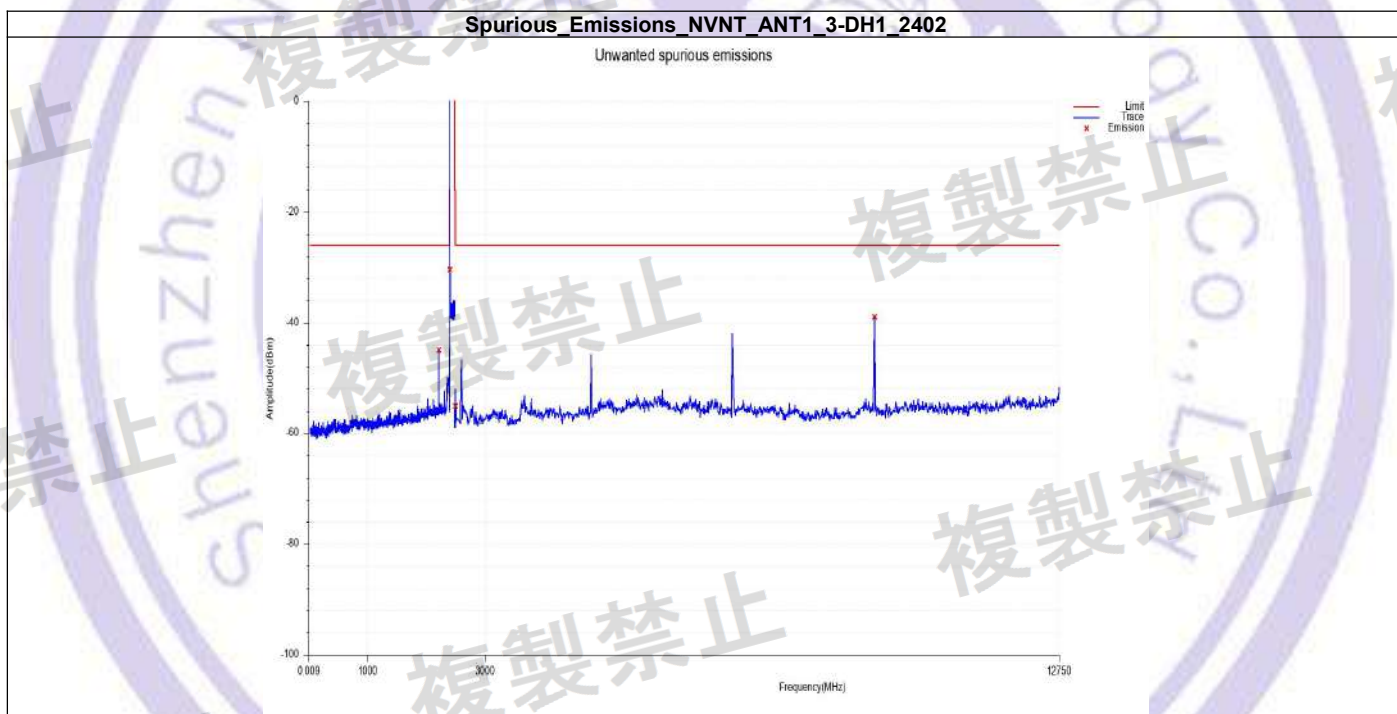
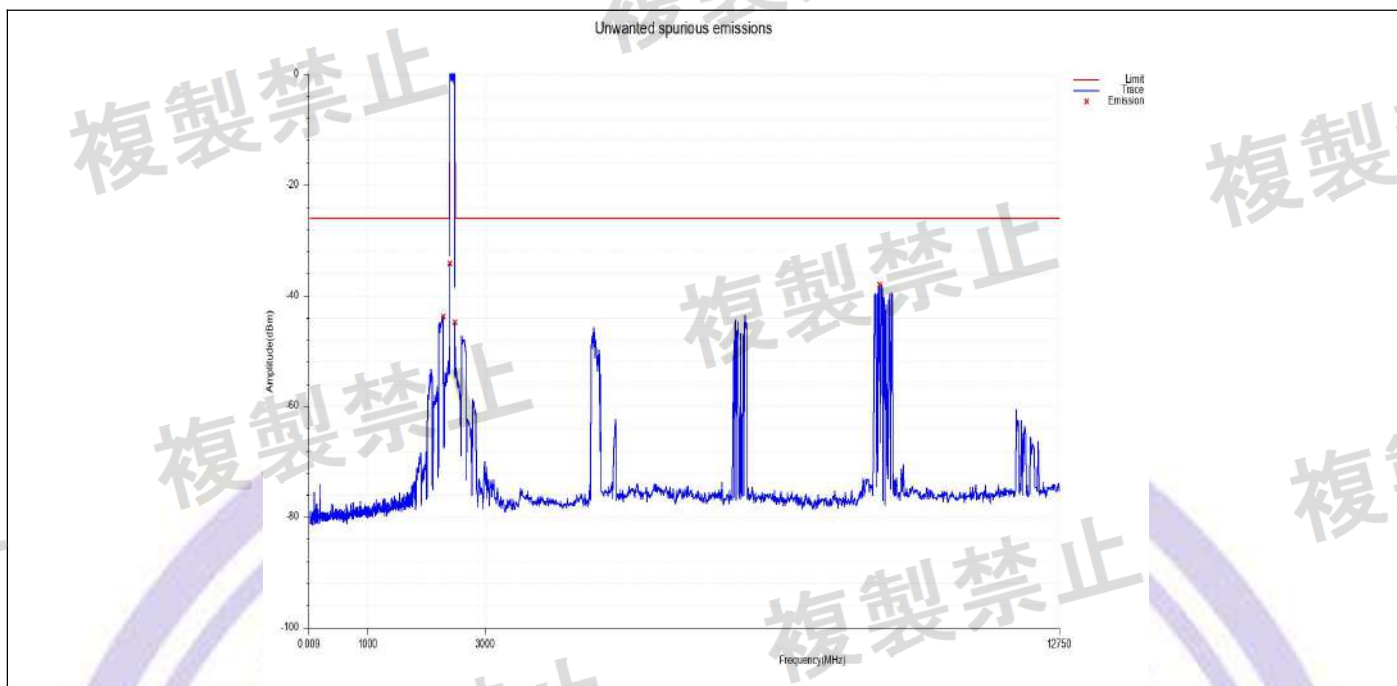


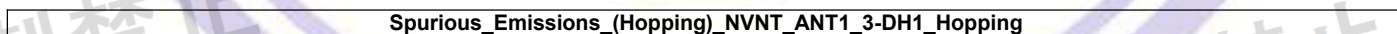
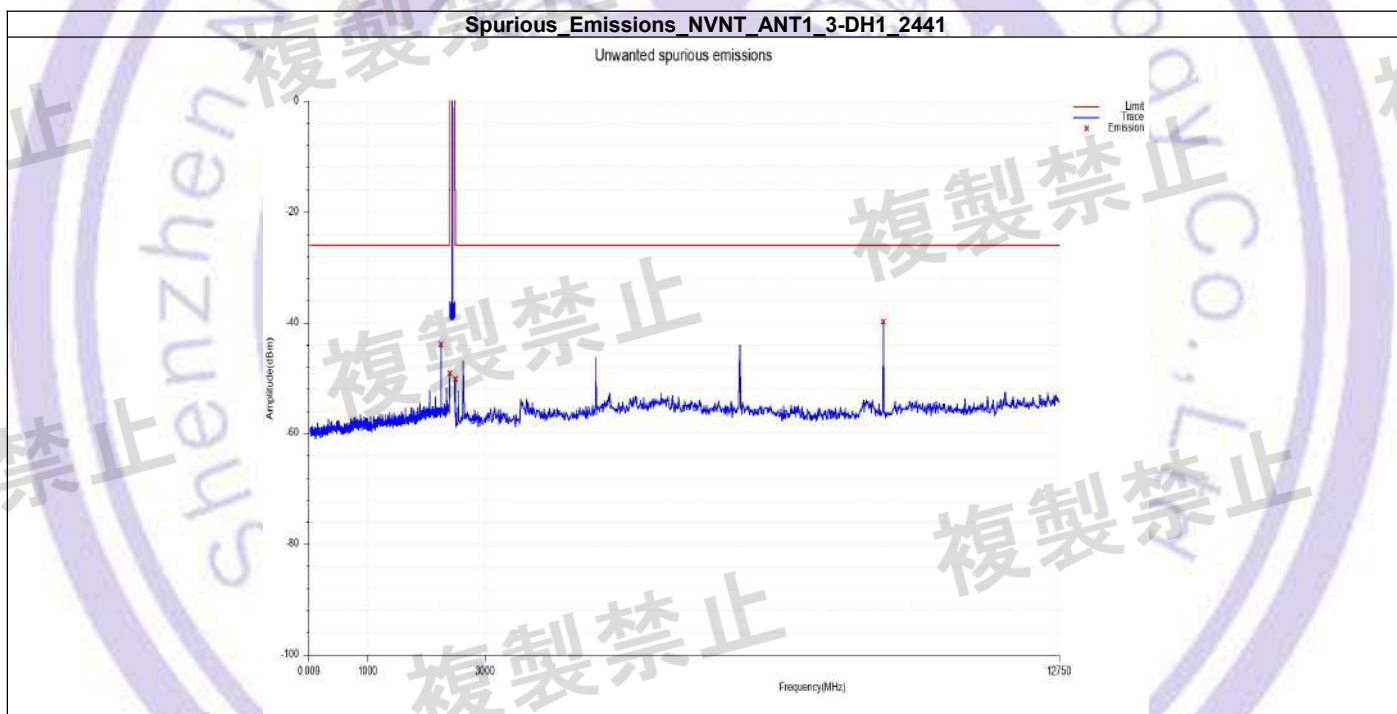
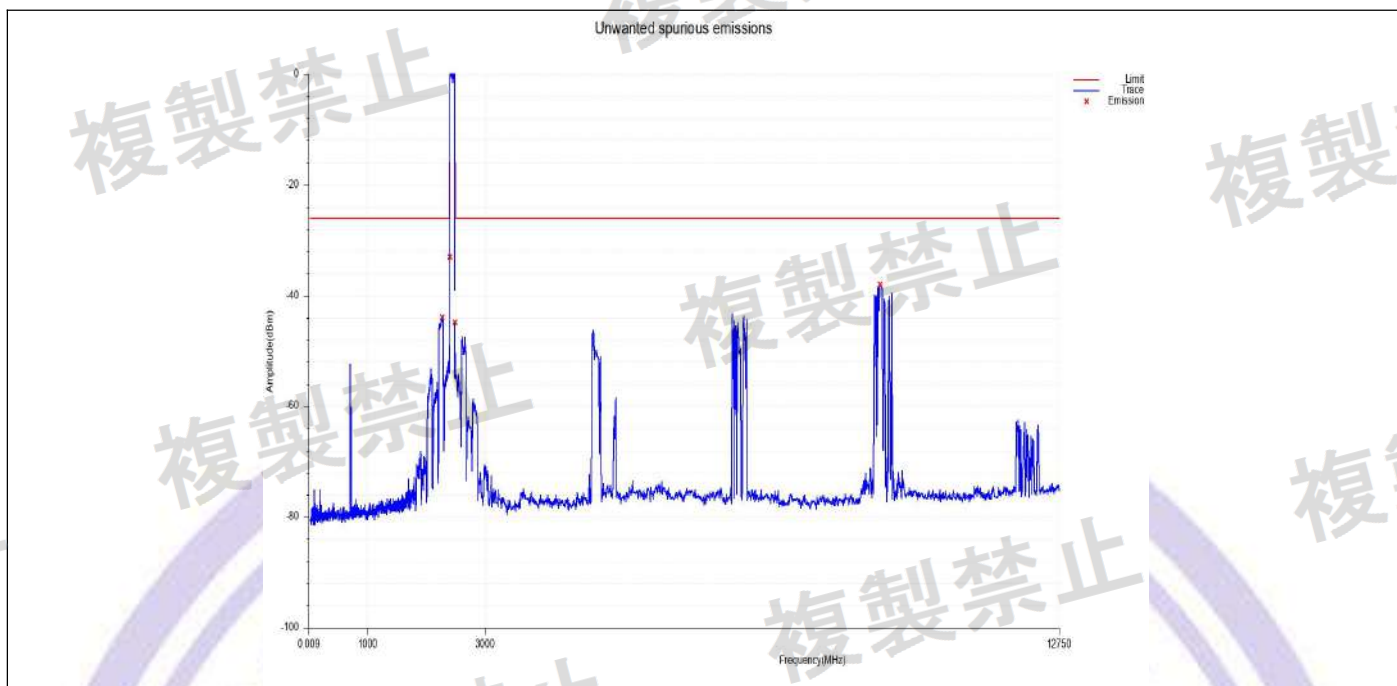


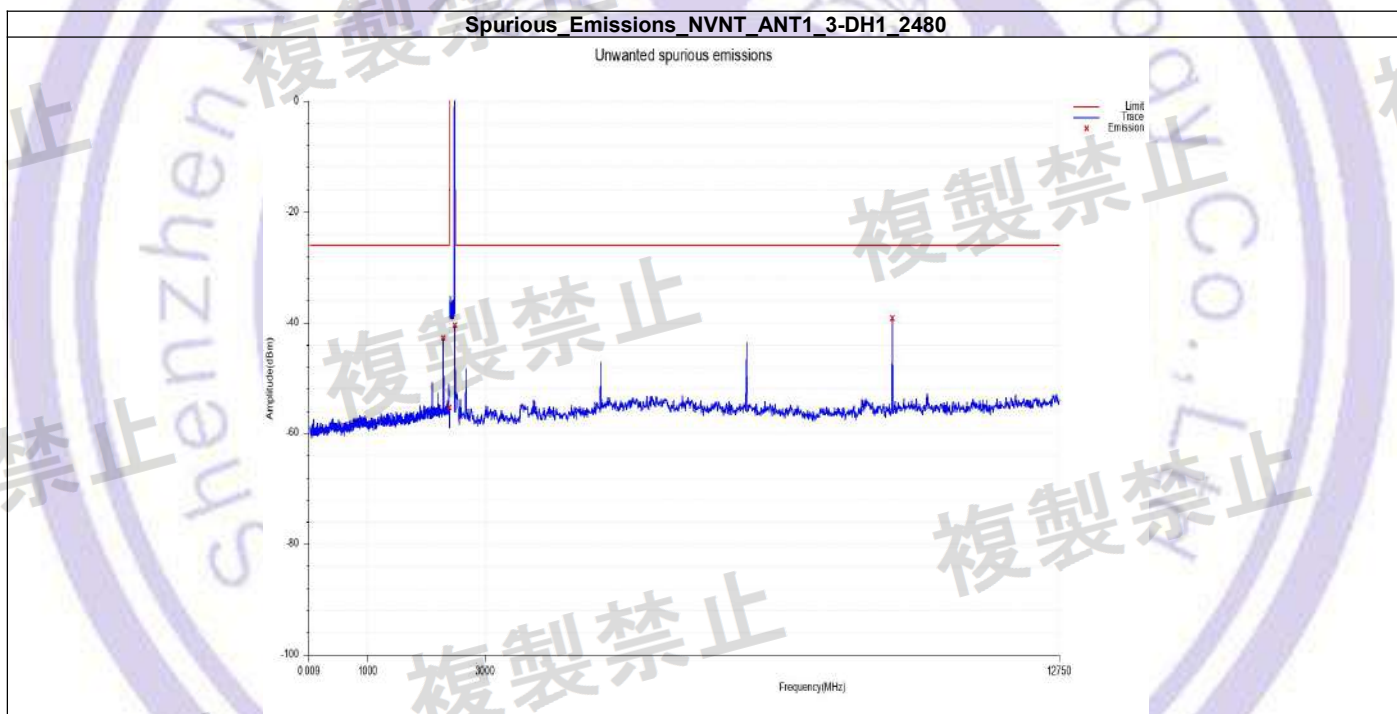
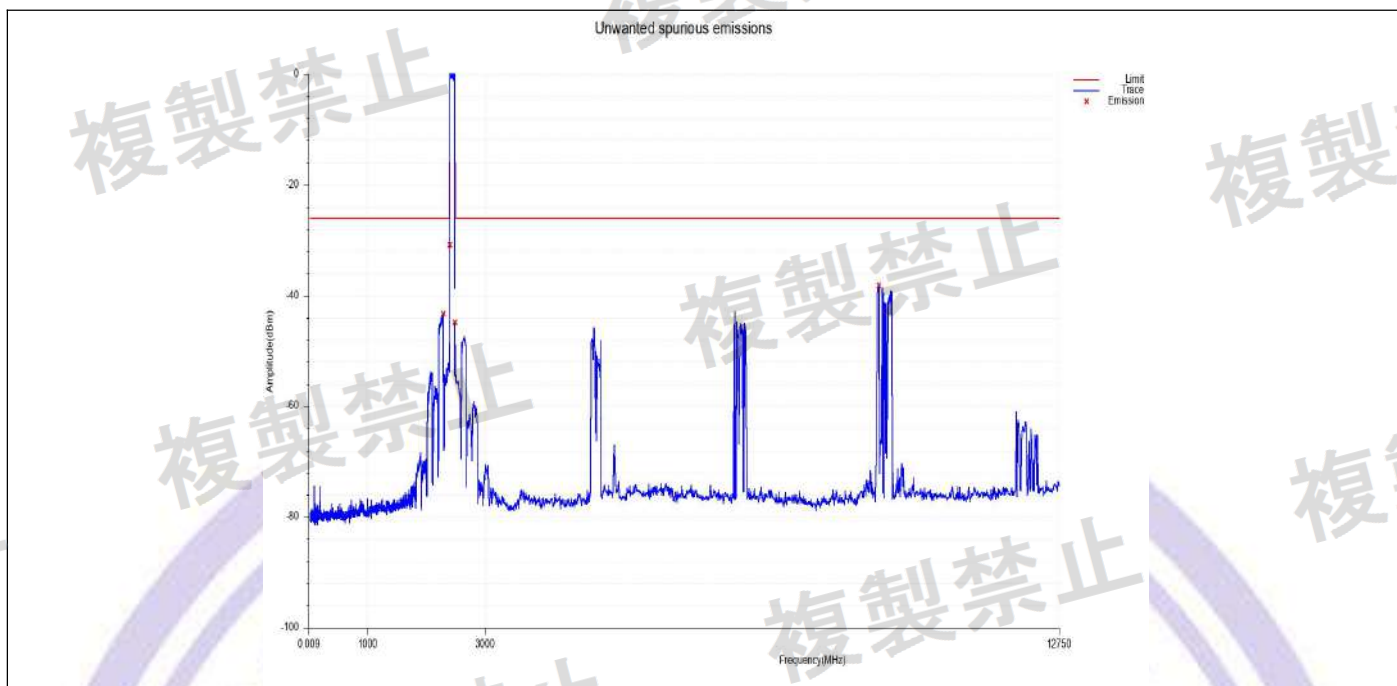












7. DWELL TIME

7.1. LIMIT

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

7.2. MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

7.3. TEST PROCEDURES

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for packet transmitting.
- Measure the maximum time duration of one single pulse.

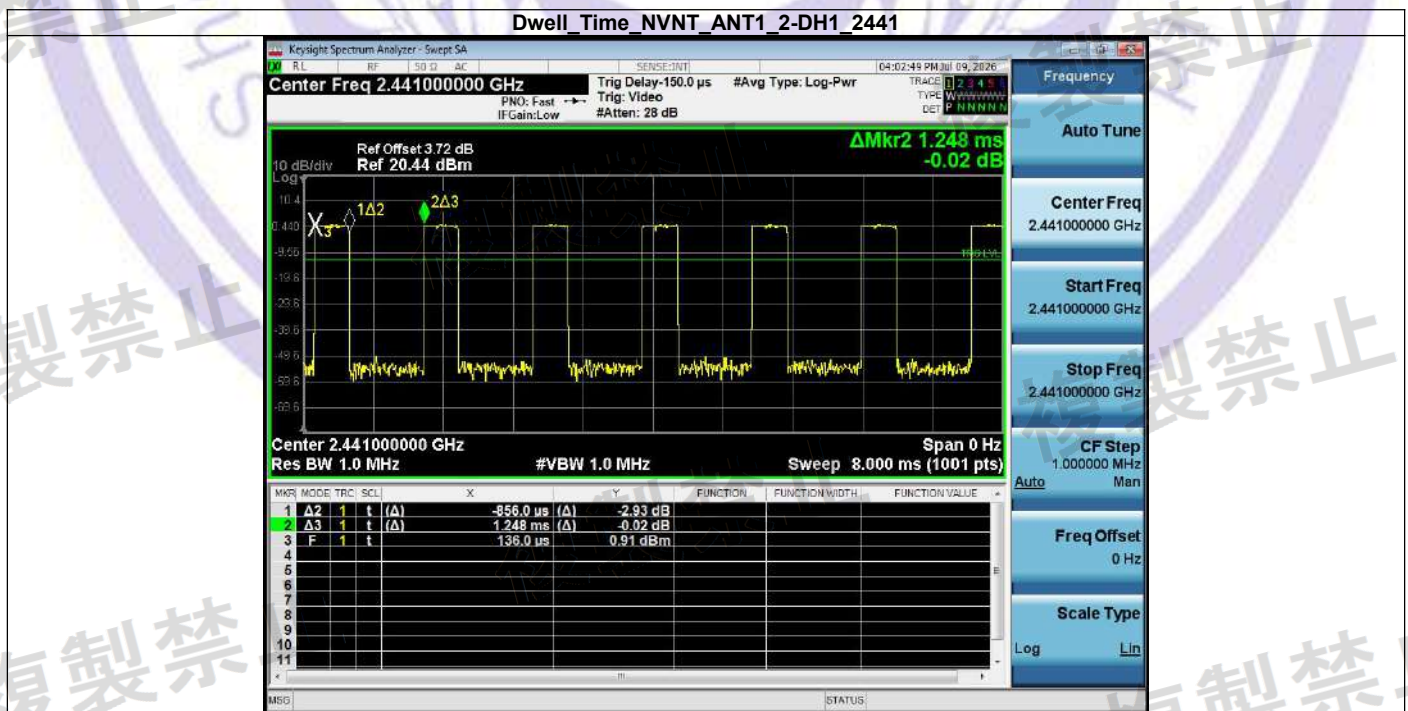
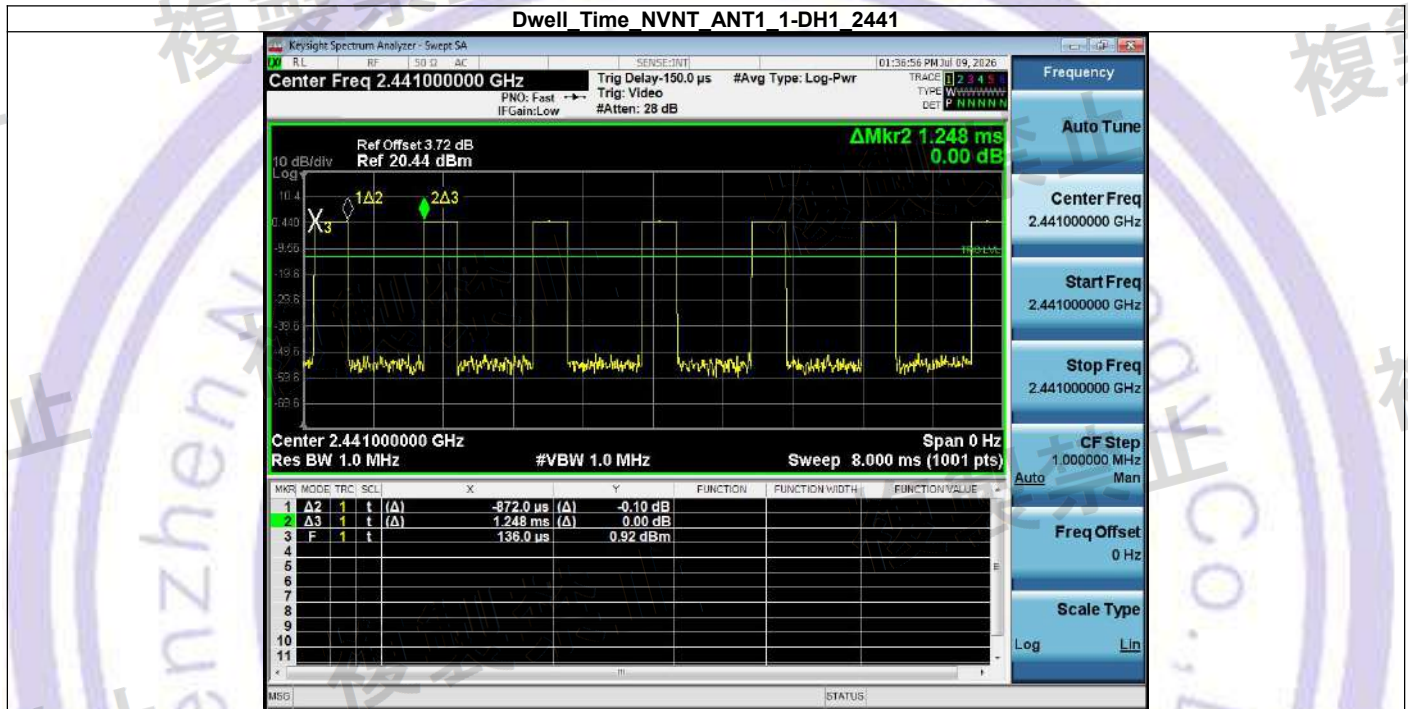
7.4. TEST SETUP LAYOUT

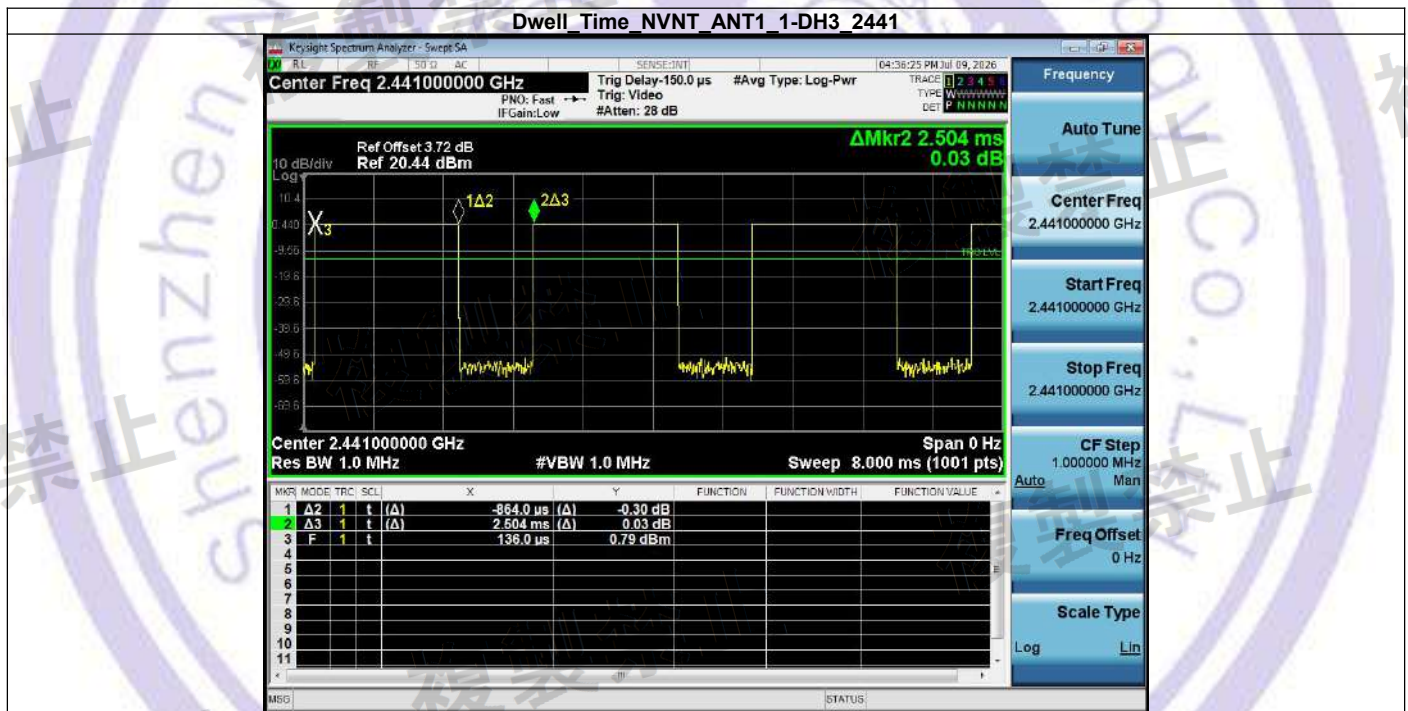
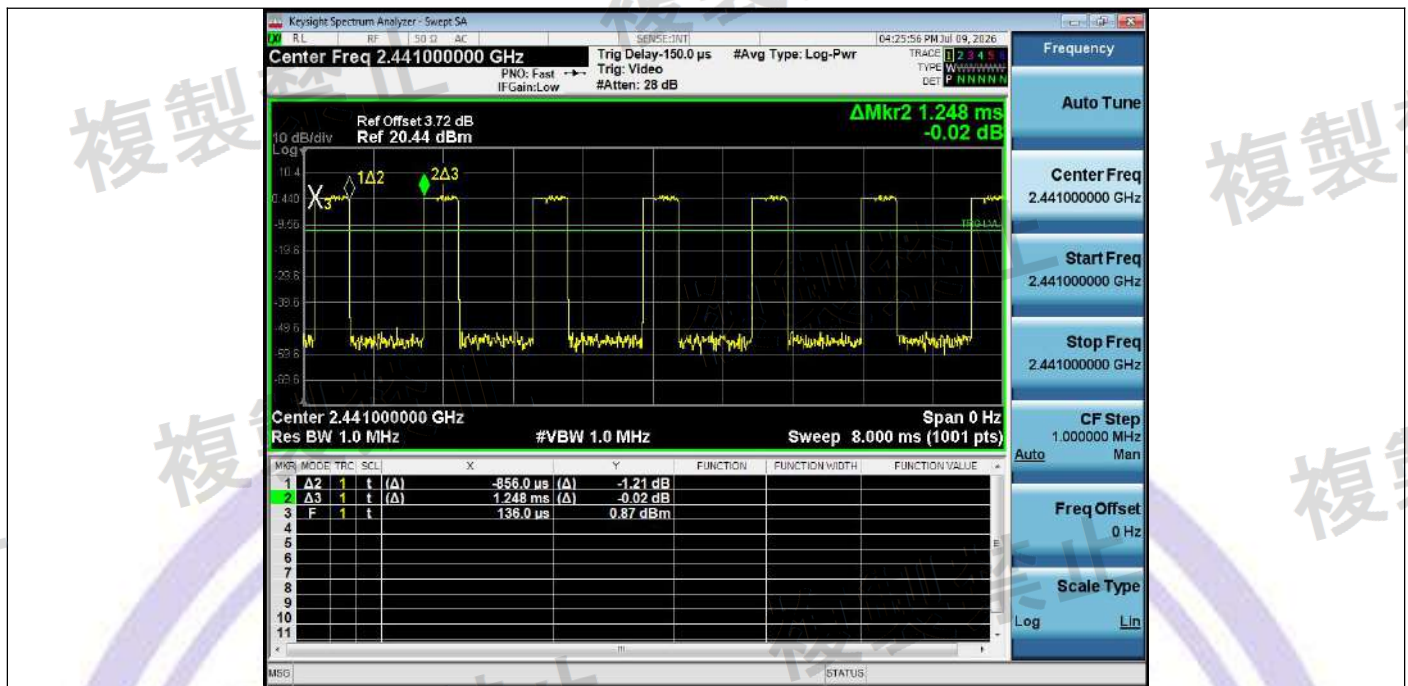


7.5. TEST RESULT

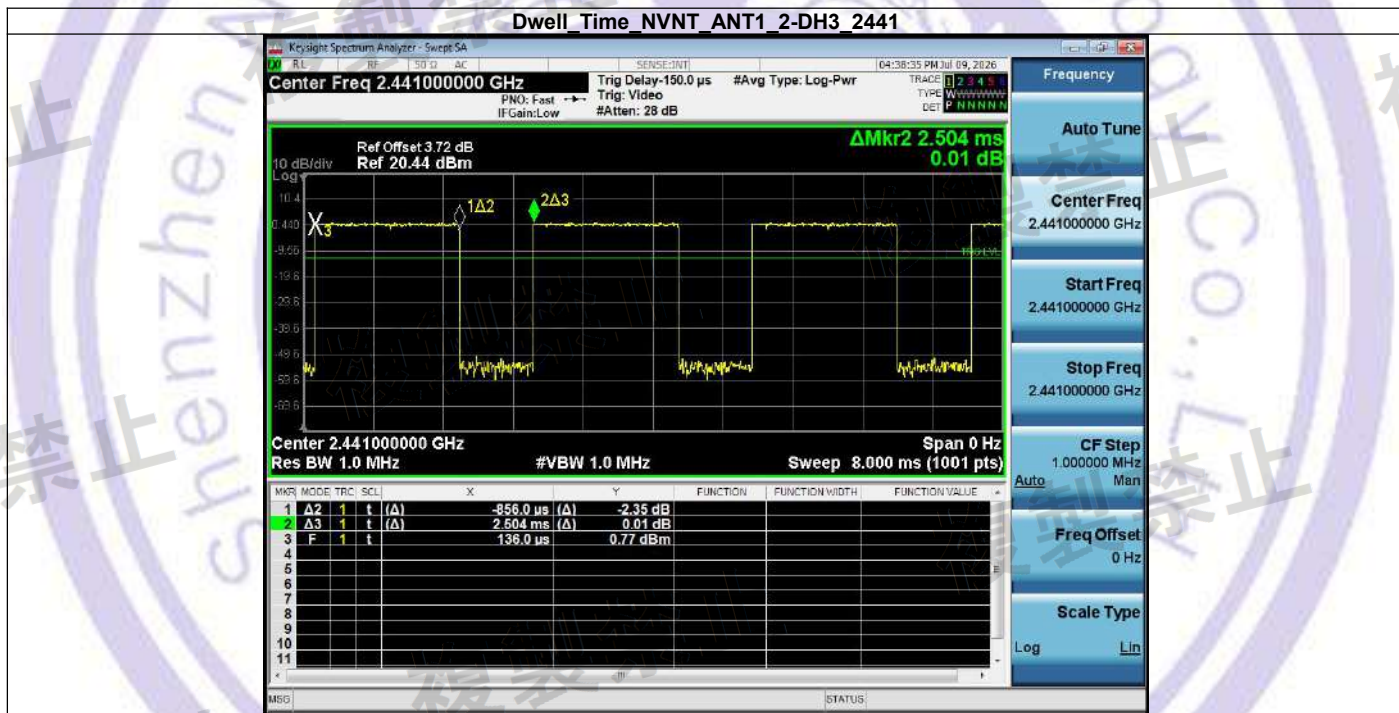
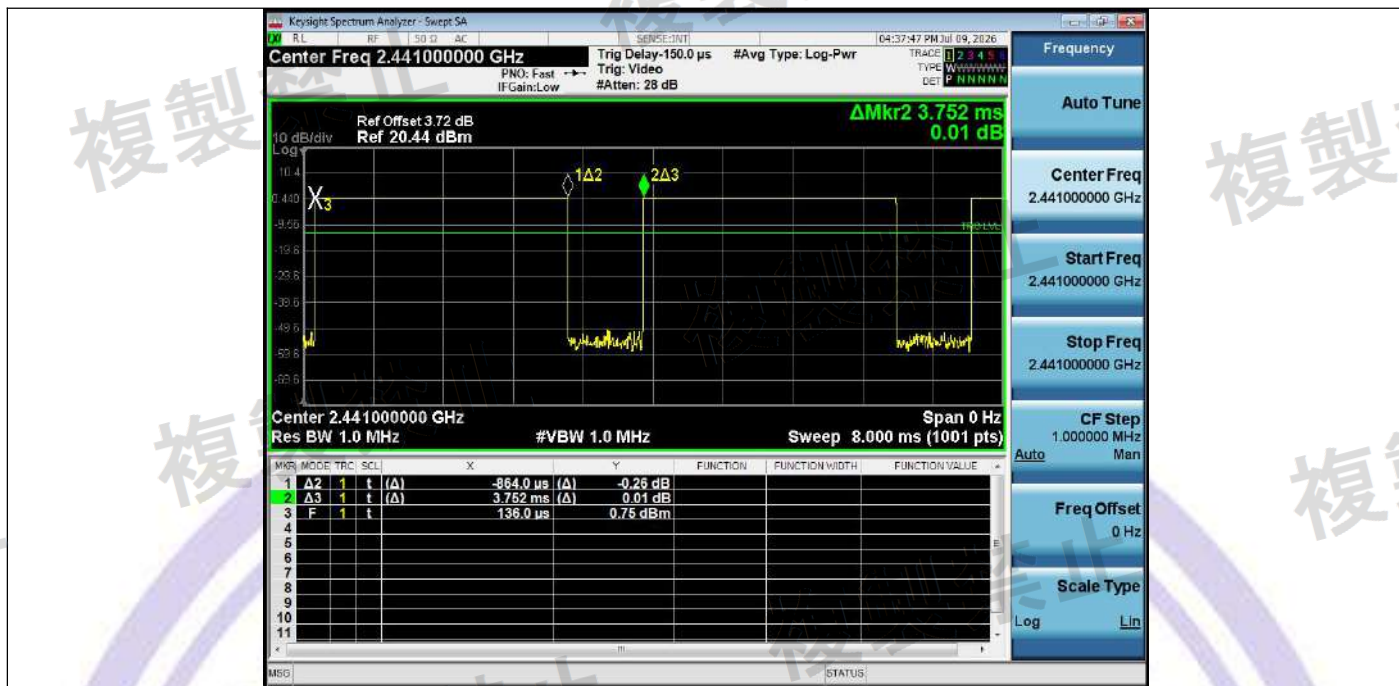
Condition	Antenna	Modulation	mode	Burst Time(ms)	Burst Cycle(ms)	Dwell Time(s)	Limit(s)	Result
NVNT	ANT1	1-DH1	Hopping	0.376	1.248	0.109	0.4	Pass
NVNT	ANT1	2-DH1	Hopping	0.392	1.248	0.114	0.4	Pass
NVNT	ANT1	3-DH1	Hopping	0.392	1.248	0.114	0.4	Pass
NVNT	ANT1	1-DH3	Hopping	1.640	2.504	0.238	0.4	Pass
NVNT	ANT1	1-DH5	Hopping	2.888	3.752	0.279	0.4	Pass
NVNT	ANT1	2-DH3	Hopping	1.648	2.504	0.239	0.4	Pass
NVNT	ANT1	2-DH5	Hopping	2.896	3.752	0.280	0.4	Pass
NVNT	ANT1	3-DH3	Hopping	1.648	2.504	0.239	0.4	Pass
NVNT	ANT1	3-DH5	Hopping	2.896	3.752	0.280	0.4	Pass

$dwellTime = 400 * spreadFactor * burstTime / burstCycle / 79 / 1000$

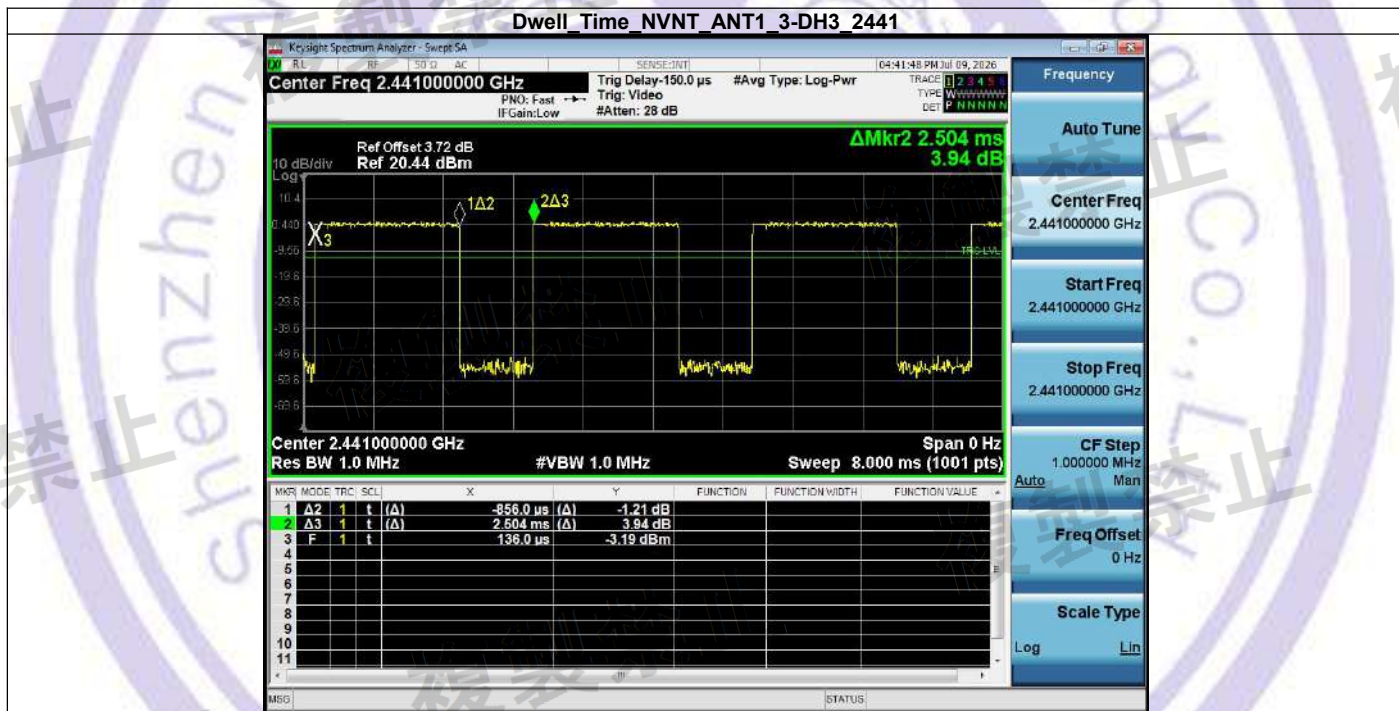
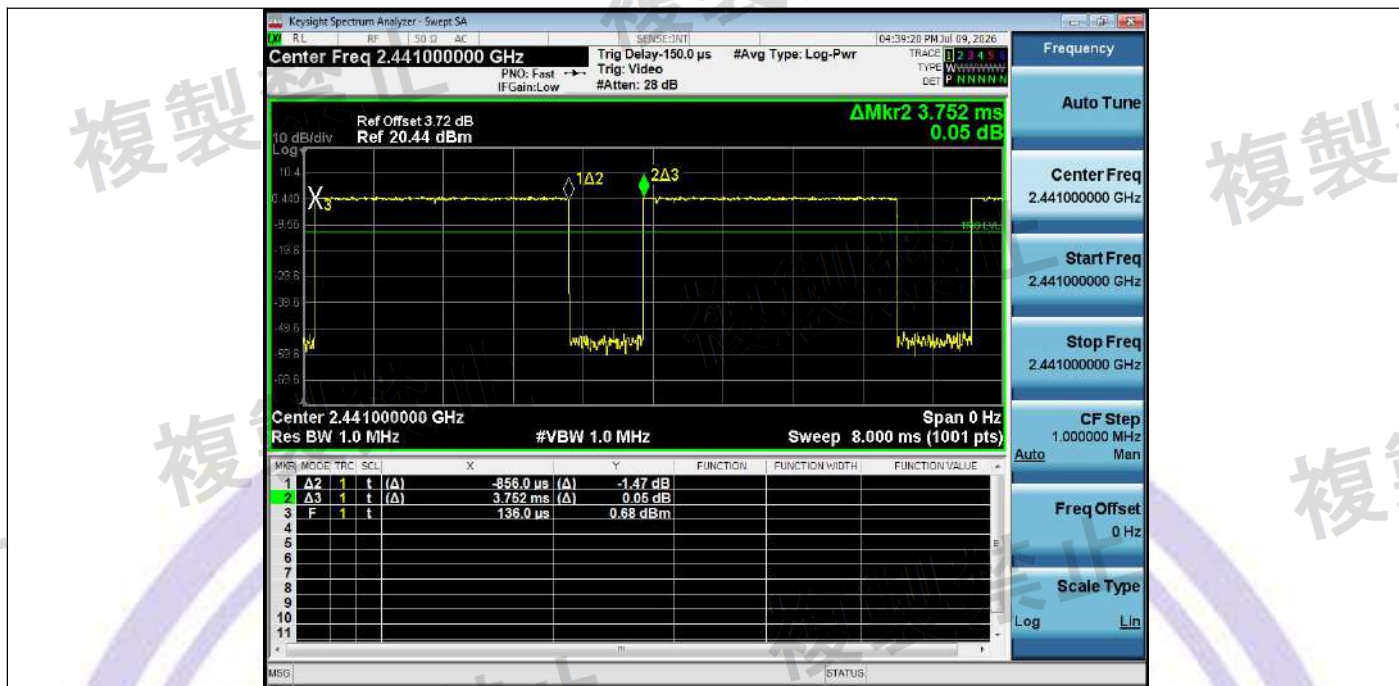




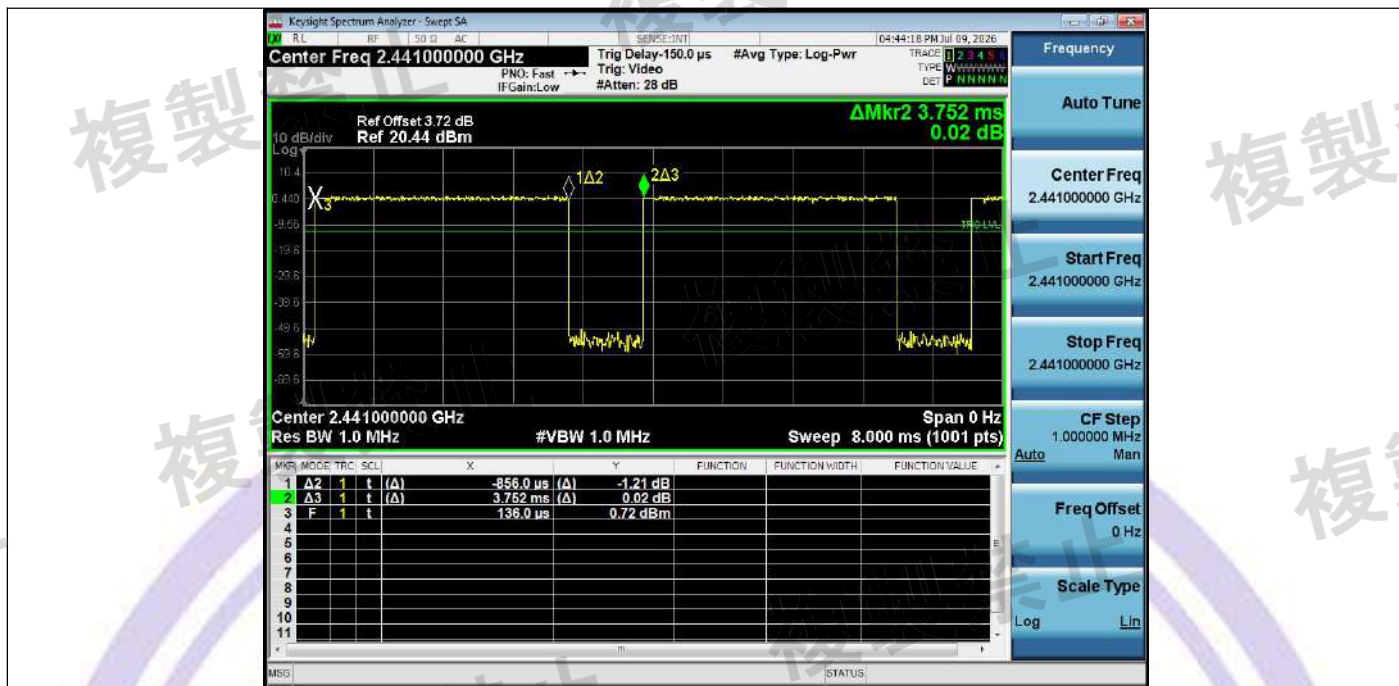
Dwell Time NVNT ANT1 1-DH5 2441



Dwell Time NVNT_ANT1_2-DH5_2441



Dwell Time NVNT ANT1 3-DH5 2441



8. CARRIER SENSE

Not applicable

9. IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

9.1. LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}(-54\text{dBm}) (f < 1\text{GHz})$
	$\leq 20\text{nW}(-47\text{dBm}) (1\text{GHz} \leq f)$

9.2. MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	Below 1G: RB / VB: 100kHz/100kHz
	Above 1G: RB / VB: 1MHz/1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

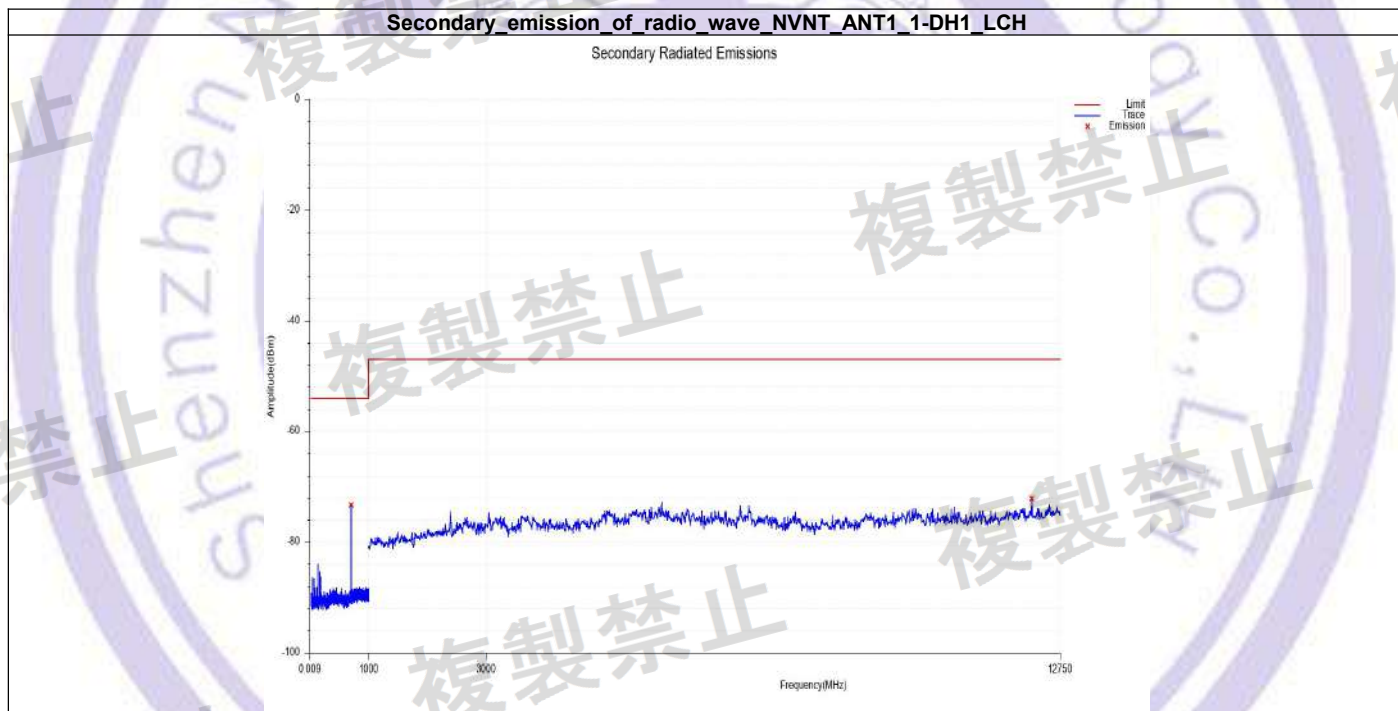
9.3. TEST PROCEDURES

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

9. 4. TEST RESULT

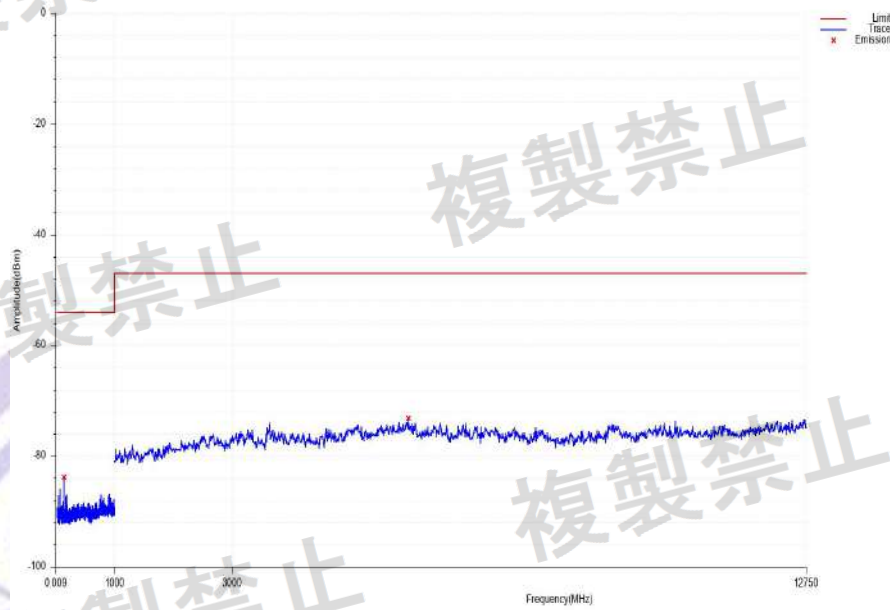
Condition	ANT	Mode	Channel	Range(MHz)	RBW(kHz)	Spur. Freq.(MHz)	Spur. Lev.(dBm)	Spur. Lev	Limit	Over 1/10 Limit	Read Lev.(dBm)	Read Lev.	Result
NVNT	ANT1	1-DH1	LCH	30.0~1000.0	100	705.12	-73.32	0.0465nW	4nW	NO	/	/	Pass
NVNT	ANT1	1-DH1	LCH	1000.0~12750.0	1000	12268.25	-72.19	0.0604nW	20nW	NO	/	/	Pass
NVNT	ANT1	1-DH1	MCH	30.0~1000.0	100	144.46	-83.83	0.0041nW	4nW	NO	/	/	Pass
NVNT	ANT1	1-DH1	MCH	1000.0~12750.0	1000	5993.75	-73.22	0.0476nW	20nW	NO	/	/	Pass
NVNT	ANT1	1-DH1	HCH	30.0~1000.0	100	144.46	-83.29	0.0046nW	4nW	NO	/	/	Pass
NVNT	ANT1	1-DH1	HCH	1000.0~12750.0	1000	12221.25	-72.94	0.0508nW	20nW	NO	/	/	Pass
NVNT	ANT1	2-DH1	LCH	30.0~1000.0	100	144.46	-83.67	0.0042nW	4nW	NO	/	/	Pass
NVNT	ANT1	2-DH1	LCH	1000.0~12750.0	1000	12468.00	-72.17	0.0607nW	20nW	NO	/	/	Pass
NVNT	ANT1	2-DH1	MCH	30.0~1000.0	100	144.46	-83.64	0.0043nW	4nW	NO	/	/	Pass
NVNT	ANT1	2-DH1	MCH	1000.0~12750.0	1000	12526.75	-72.56	0.0555nW	20nW	NO	/	/	Pass
NVNT	ANT1	2-DH1	HCH	30.0~1000.0	100	144.46	-84.21	0.0037nW	4nW	NO	/	/	Pass
NVNT	ANT1	2-DH1	HCH	1000.0~12750.0	1000	10635.00	-73.12	0.0487nW	20nW	NO	/	/	Pass
NVNT	ANT1	3-DH1	LCH	30.0~1000.0	100	144.46	-83.51	0.0044nW	4nW	NO	/	/	Pass
NVNT	ANT1	3-DH1	LCH	1000.0~12750.0	1000	5547.25	-73.35	0.0462nW	20nW	NO	/	/	Pass
NVNT	ANT1	3-DH1	MCH	30.0~1000.0	100	144.46	-83.24	0.0047nW	4nW	NO	/	/	Pass
NVNT	ANT1	3-DH1	MCH	1000.0~12750.0	1000	6463.75	-73.55	0.0441nW	20nW	NO	/	/	Pass
NVNT	ANT1	3-DH1	HCH	30.0~1000.0	100	144.46	-83.54	0.0044nW	4nW	NO	/	/	Pass
NVNT	ANT1	3-DH1	HCH	1000.0~12750.0	1000	12750.00	-73.04	0.0496nW	20nW	NO	/	/	Pass

Measured all types and recorded worst case at GFSK modulation



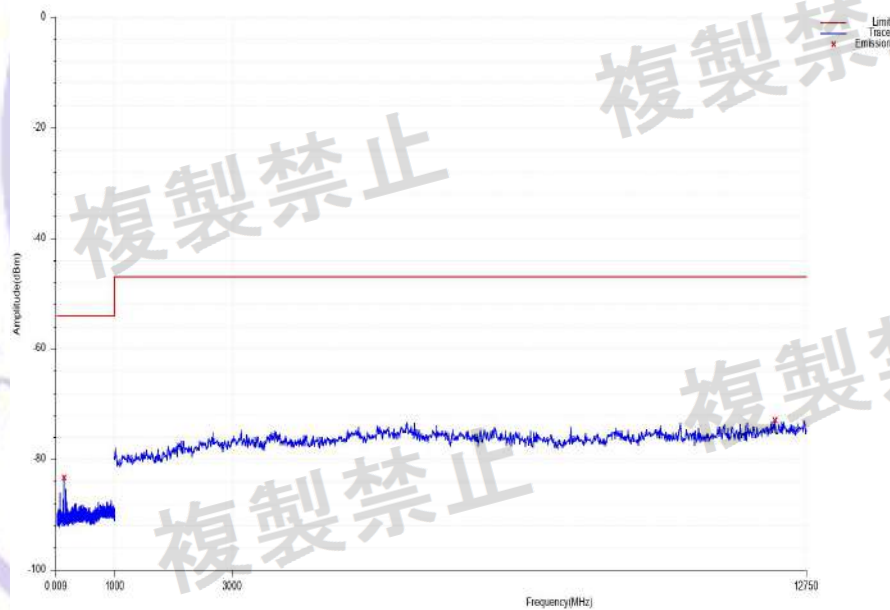
Secondary emission of radio wave NVNT_ANT1_1-DH1_MCH

Secondary Radiated Emissions



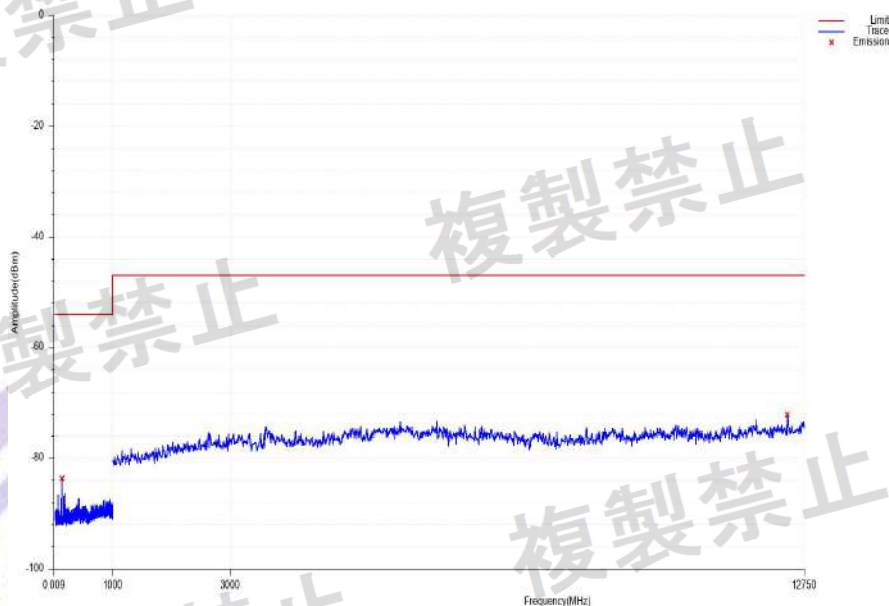
Secondary emission of radio wave NVNT_ANT1_1-DH1_HCH

Secondary Radiated Emissions



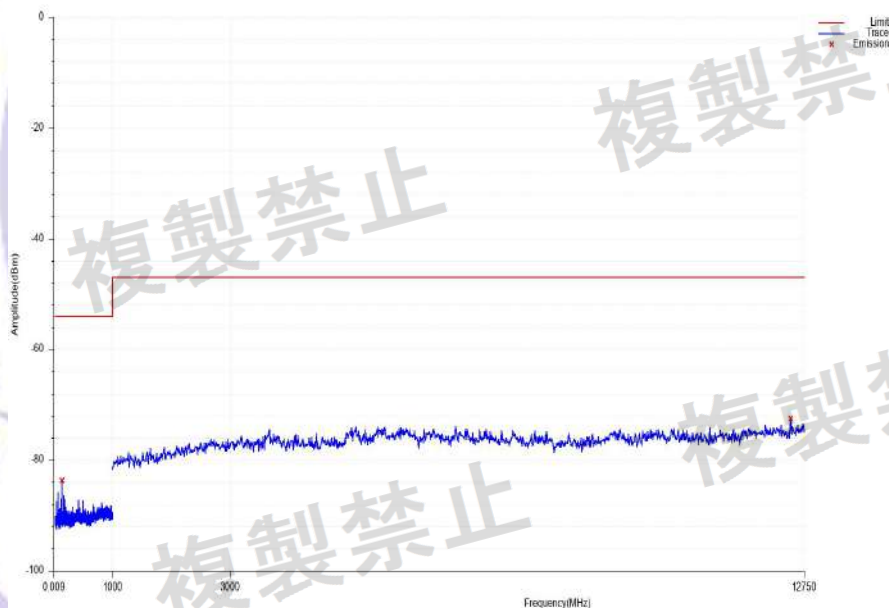
Secondary emission of radio wave_NVNT_ANT1_2-DH1_LCH

Secondary Radiated Emissions



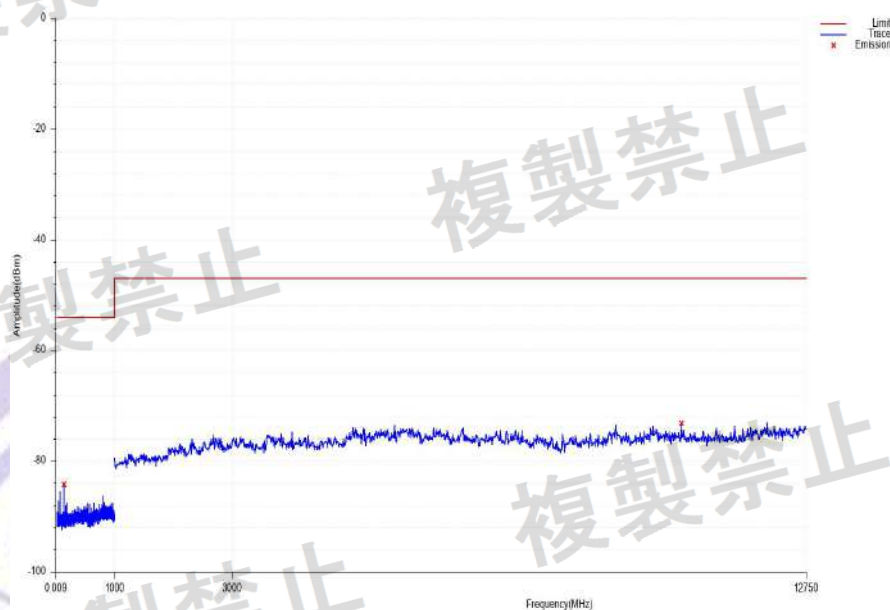
Secondary emission of radio wave_NVNT_ANT1_2-DH1_MCH

Secondary Radiated Emissions



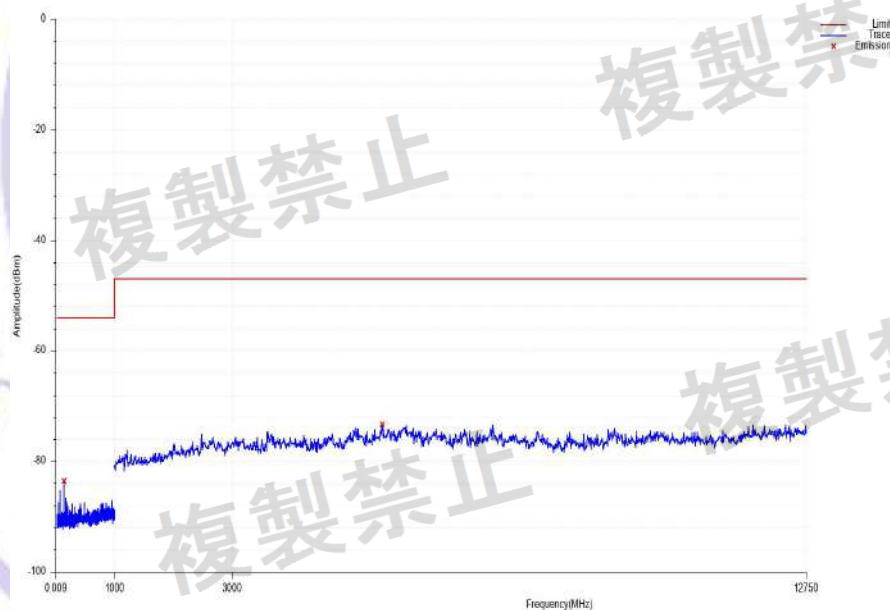
Secondary emission of radio wave_NVNT_ANT1_2-DH1_HCH

Secondary Radiated Emissions



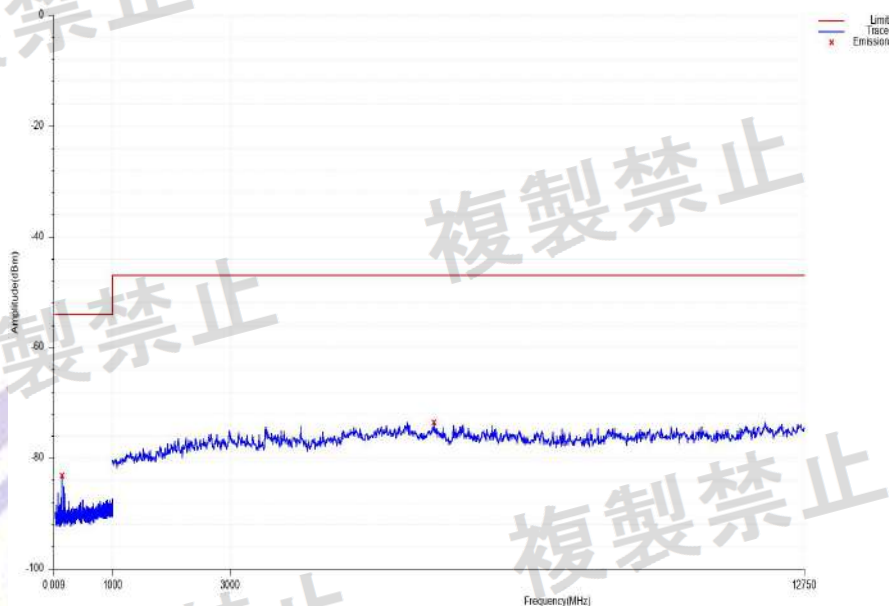
Secondary emission of radio wave_NVNT_ANT1_3-DH1_LCH

Secondary Radiated Emissions



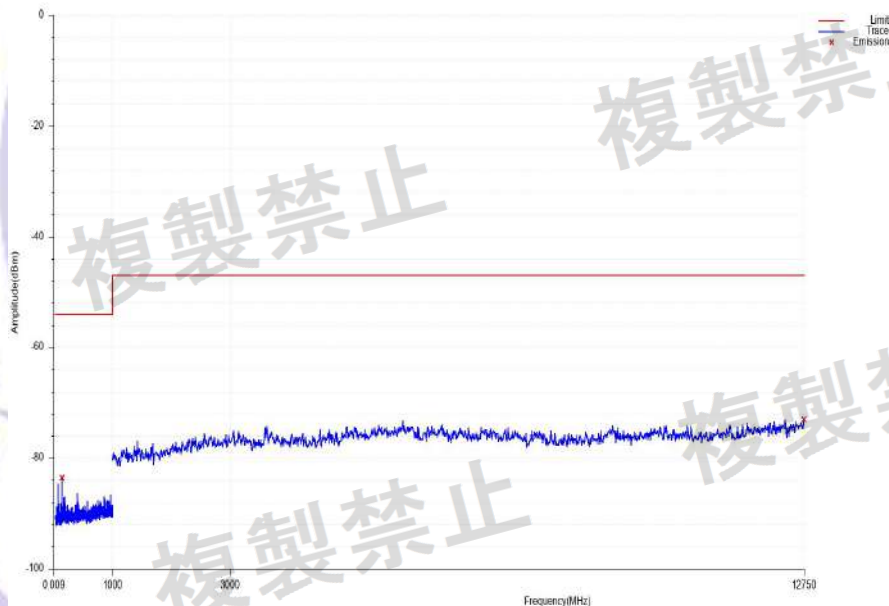
Secondary emission of radio wave NVNT_ANT1_3-DH1_MCH

Secondary Radiated Emissions



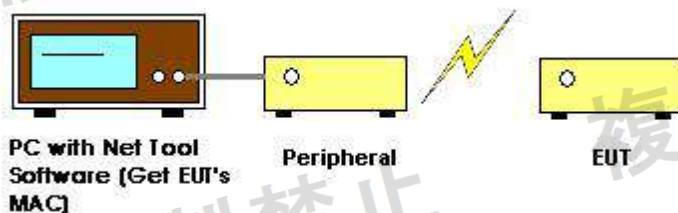
Secondary emission of radio wave NVNT_ANT1_3-DH1_HCH

Secondary Radiated Emissions



10. INTERFERENCE PREVENTION FUNCTION

10.1. TEST SETUP



10.2. RADIO INTERFERENCE PREVENTION FUNCTION

	Normal voltage
Result	OK

Result: Pass
MAC:1C: 32: BA: 2A:4D: 5E

11. EUT TEST PHOTO

Measurement Photos



RF Cable impedance: $50\ \Omega$

12. EUT CONSTRUCTIONAL DETAILS

Please see EUT Photo for details.

the end of report