



RADIO TEST REPORT

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Applicant	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Manufacturer	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Equipment under Test	:	True Wireless Bluetooth Headphone Amplifier
Model No.	:	F5151U, F2501U, F2502U, F2503U, F2504U, F2505U, F2506U, F2507U, F2508U, F2509U, F2500U
Test Standard(s)	:	Item 19 of Article 2 Paragraph 1, MIC Notification 88, ANNEX 43
Report No.	:	DDT-RE26031117-2E01
Issue Date	:	2026/06/24
Issued By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1.	Summary of Test Results	6
2.	General Test Information.....	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT	8
2.3.	Block diagram of EUT configuration for test.....	8
2.4.	Decision of final test mode	8
2.5.	Deviations of test standard	9
2.6.	Test environment conditions	9
2.7.	Test laboratory	10
2.8.	Measurement uncertainty	11
3.	Equipment Used During Test	12
4.	Frequency Tolerance	13
4.1.	Limit.....	13
4.2.	Block diagram of test setup	13
4.3.	Test procedure	13
4.4.	Test result.....	14
4.5.	Test graphs	15
5.	Antenna Power and Tolerances for Antenna Power	17
5.1.	Limit.....	17
5.2.	Block diagram of test setup	17
5.3.	Test procedure	17
5.4.	Test result.....	18
5.5.	Test graphs	19
6.	Occupied Frequency Bandwidth	21
6.1.	Limit.....	21
6.2.	Block diagram of test setup	21
6.3.	Test procedure	21
6.4.	Test result.....	22
6.5.	Test graphs	23
7.	Transmitter Spurious Emissions.....	25
7.1.	Limit.....	25
7.2.	Block diagram of test setup.....	25
7.3.	Test procedure	25
7.4.	Test result.....	26
7.5.	Test graphs	27
8.	Secondary Radiated Emissions	35

8.1. Limit.....35

8.2. Block diagram of test setup.....35

8.3. Test procedure35

8.4. Test result.....36

8.5. Test graphs37

9. Interference Prevention Function41

9.1. Measurement system diagram41

9.2. Measuring operation procedure41

9.3. Test result: The unit does meet the requirements.....41

10. Test Setup Photograph42

11. Photos of the EUT43

Test Report Declare

Applicant	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Applicant	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China
Equipment under Test	:	True Wireless Bluetooth Headphone Amplifier
Model No.	:	F5151U, F2501U, F2502U, F2503U, F2504U, F2505U, F2506U, F2507U, F2508U, F2509U, F2500U
Manufacturer	:	Guangzhou FiiO Electronics Technology Co., Ltd.
Address of Manufacturer	:	No.21, Longliang Road, Xialiang Village, Longgui Street, Baiyun District, Guangzhou, Guangdong, P.R. China

Test Standard Used:

Item 19 of Article 2 Paragraph 1, MIC Notification 88, ANNEX 43.

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE26031117-2E01		
Date of Receipt:	2026/01/04	Date of Test:	2026/01/04 - 2026/05/29

Created: Chen Ziqin	Reviewed: Bobo Chen	Approved: Ella Gong
		
2026/05/28	2026/06/24	2026/06/24

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/06/24	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	Frequency Tolerance	Article 5, Annex 1.table 7-8	Apply all equipment	Pass
2	Antenna Power	Article 49-20	Apply all equipment	Pass
3	Antenna Power Tolerance	Article 14. table 8	Apply all equipment	Pass
4	Spreading Bandwidth	Just for report	Just for report	N/A
5	Occupied Bandwidth	Article 6, Annex 2.30	Apply all equipment	Pass
6	Dwell Time	Article 49-20	Only for Apply FHSS	N/A
7	Spurious Emissions	Article 7, Annex 3.26	Apply all equipment	Pass
8	E.I.R.P.	Article 49-20	Limit is variable by the H.P.B.A	N/A
9	Secondary Radiated Emissions	Article 24.2	Apply all equipment	Pass
10	Carrier Sense	Article 49-20	When the E.I.R.P. shortage is compensated by the antenna power, the transmitter shall have a carrier sensing function.	N/A
11	Transmitting Antenna Absolute Gain	Article 49-20	When an E.I.R.P. is less than the limit, the shortage can be compensated for by the gain of the transmitting antenna	N/A
12	Half Power Beam Angle	Article 49-20	It is unnecessary to testing, when a E.I.R.P is less than the variable E.R.P limit of minimum.	N/A
13	Interference Prevention Function	Article 9-4.5, Article 6-2.3, Article 6-2.5	Apply all equipment	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	: True Wireless Bluetooth Headphone Amplifier
Model Number	: F5151U, F2501U, F2502U, F2503U, F2504U, F2505U, F2506U, F2507U, F2508U, F2509U, F2500U
Difference of model number	: Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model F5151U
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from USB cable or DC 3.8V built-in battery
Hardware Version	: M01
Software Version	: V0.37
Antenna Type	: PCB Antenna
Max Antenna Gain(dBi)	: -3.7

Radio Specification	: Bluetooth LE
Operation Frequency	: 2402 MHz to 2480 MHz
Modulation	: GFSK

Bluetooth LE 1Mbps Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		
Bluetooth LE 2Mbps Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462

3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	
13	2428	27	2456	/	

The channels denoted with the grey background are excluded, because they are primary advertising channel only for the Bluetooth LE 1Mbps according to the Bluetooth Core Specification.

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: PhyPlusKit_v2.5.31.exe

The test software was used to control EUT work

in Continuous Tx mode and Rx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Channel, and Frequency

Mode	Setting Tx Power	Channel	Frequency (MHz)
Tx mode_1M	3F	CH0	2402
	3F	CH19	2440
	3F	CH39	2480
Tx mode_2M	3F	CH1	2404
	3F	CH19	2440
	3F	CH38	2478
Rx mode_1M	/	CH0	2402
	/	CH19	2440
	/	CH39	2480
Rx mode_2M	/	CH0	2402
	/	CH1	2404
	/	CH19	2440
	/	CH38	2478
	/	CH39	2480

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

/	Normal Conditions
Temperature range	23 °C
Humidity range	46%
Power supply	DC 3.80V (When the input voltage to equipment fluctuated $\pm 10\%$, the RF unit circuit voltage fluctuation under 1%, therefore all test performed on the rated voltage for equipment.)

The measurement result of the voltage fluctuation at RF circuit when DC 3.80V +/- 10%.	
Input voltage	RF module voltage
DC 4.18V	DC 3.30V
DC 3.80V	DC 3.30V
DC 3.42V	DC 3.30V

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10\text{ MHz} \leq f < 3.6\text{ GHz}$);
	1.38 dB ($3.6\text{ GHz} \leq f < 8\text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10\text{ MHz} \leq f < 3.6\text{ GHz}$);
	1.38 dB ($3.6\text{ GHz} \leq f < 8\text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10\text{ MHz} \leq f < 3.6\text{ GHz}$);
	1.40 dB ($3.6\text{ GHz} \leq f < 8\text{ GHz}$)
	1.66 dB ($8\text{ GHz} \leq f < 26.5\text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

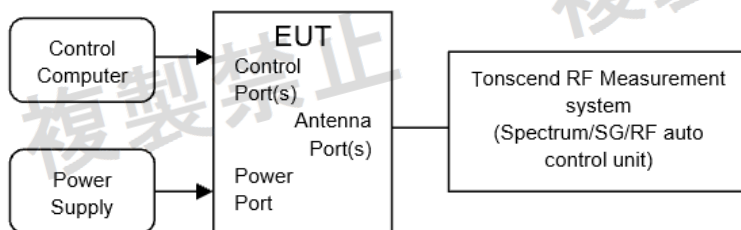
Equipment	Manufacturer	Model No.	Serial Number	Due Date
☒ RF Connected Test (RF Measurement System 4#)				
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2027/02/28
Wideband Radio Communication Tester	R&S	CMW500	168801	2027/02/28
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/08/28
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10
RF Control Unit	Tonscend	JS0806-2	21I8060485	2027/02/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2027/02/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A
Remark: (a) Calibration conducted by the National institute of information and Communications Technology (NICT)in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL. (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992). (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1). (d) Calibration, etc, conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c)				

4. Frequency Tolerance

4.1. Limit

+/- 50 x 10⁻⁶ or less (50ppm)

4.2. Block diagram of test setup



4.3. Test procedure

- (1) Set EUT work in carrier Tx mode.
- (2) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 kHz.

Video BW: 10 kHz.

Span: 1 MHz.

Detector: Peak.

Trace Mode: Max Hold.

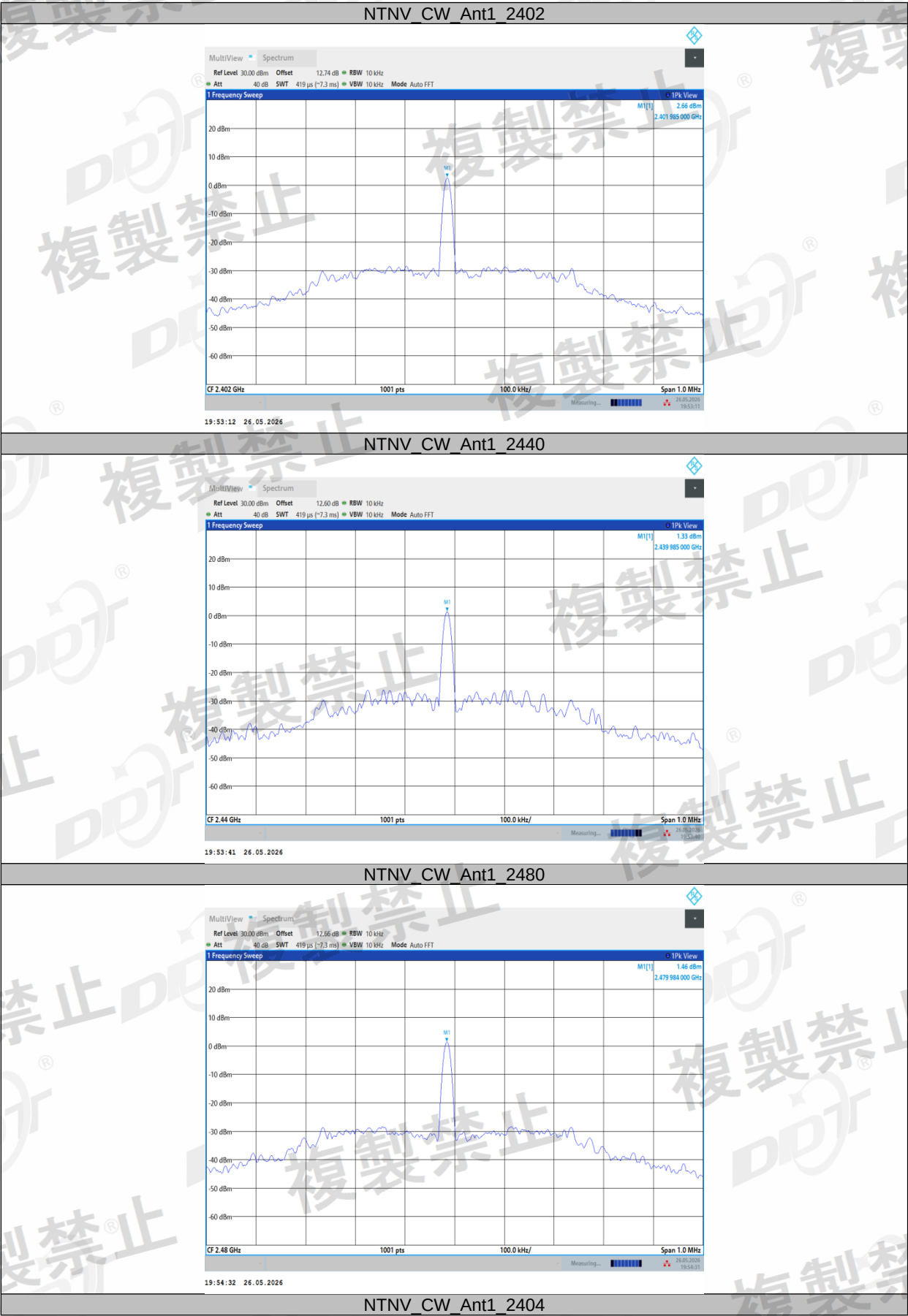
- (3) When the trace is complete, find the peak value of the power envelope and record the frequency.

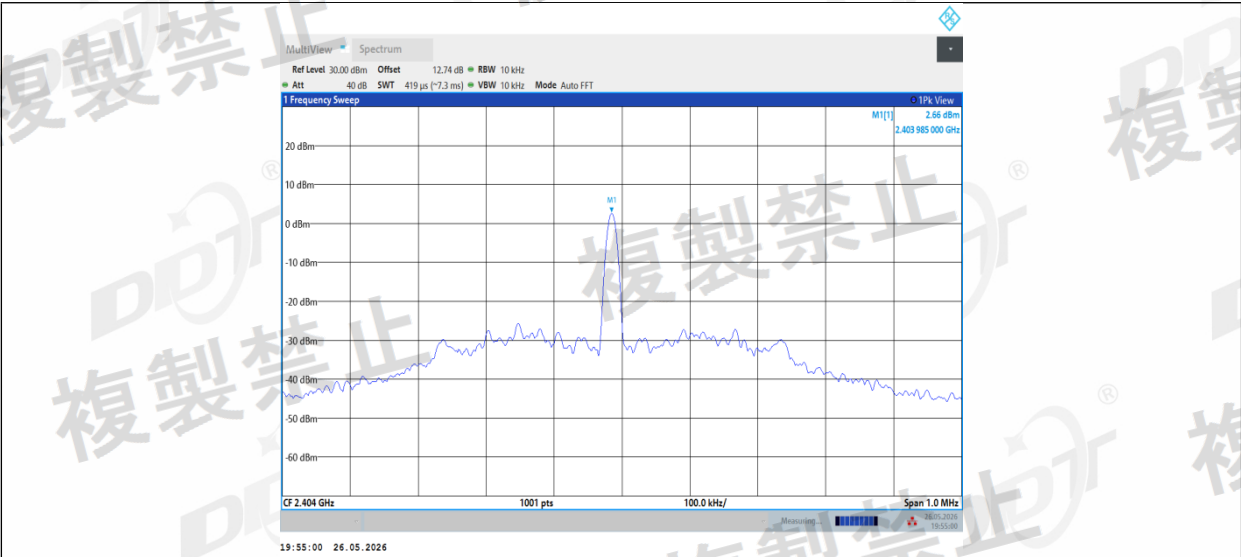
4.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	27.9℃,38.4%RH	Test Date:	2026.05.26-2026.05.26
Test Power Supply:	DC 3.8V	Sample Number:	S25103113-004

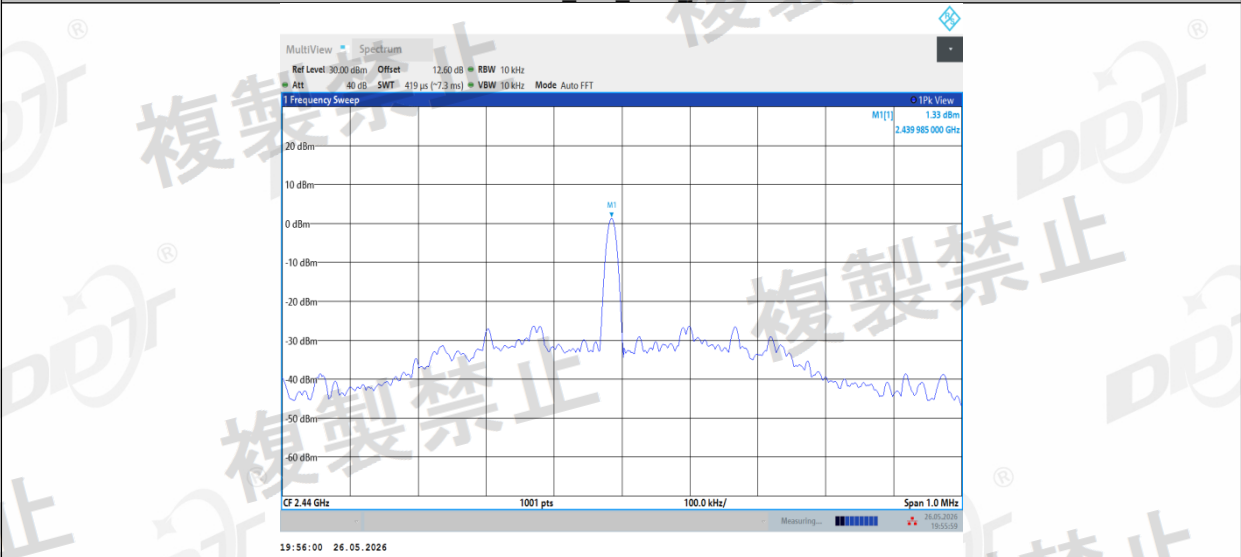
TestCondition	TestMode	Antenna	Frequency[MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	CW	Ant1	2402	2401.985	-6.24480	±50	PASS
			2440	2439.985	-6.14754	±50	PASS
			2480	2479.984	-6.45161	±50	PASS
	CW	Ant1	2404	2403.985	-6.23960	±50	PASS
			2440	2439.985	-6.14754	±50	PASS
			2478	2477.984	-6.45682	±50	PASS

4.5. Test graphs

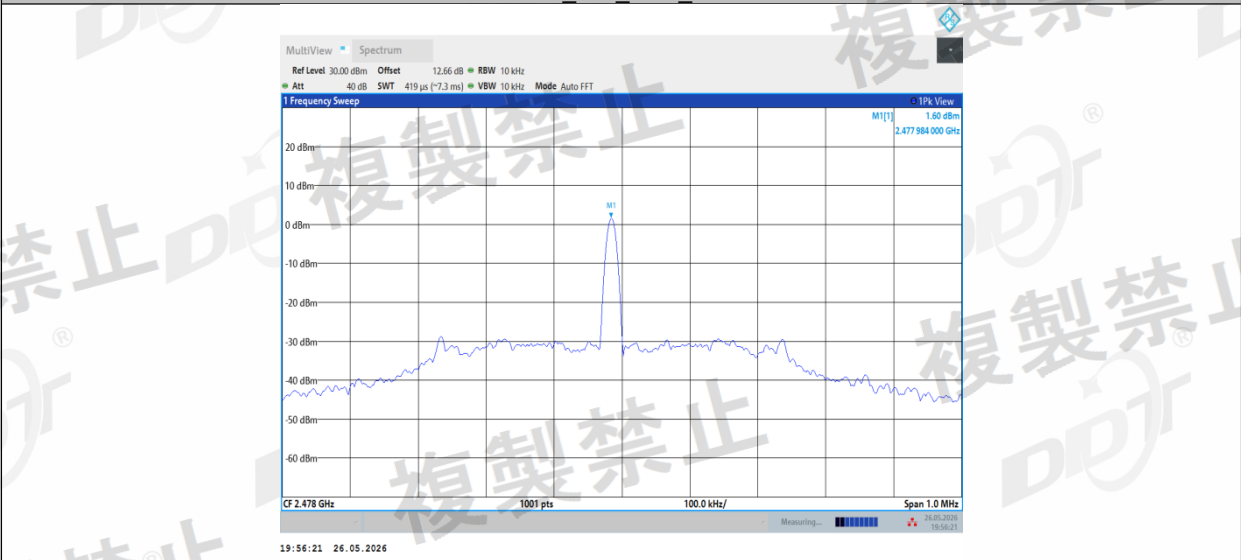




NTNV_CW_Ant1_2440



NTNV_CW_Ant1_2478

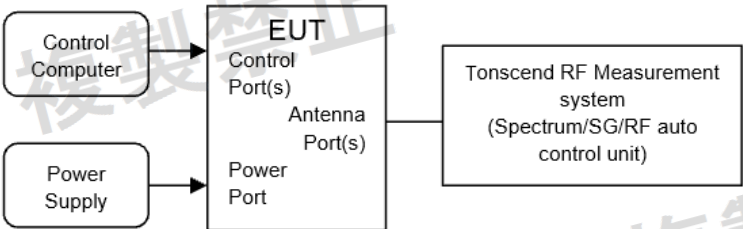


5. Antenna Power and Tolerances for Antenna Power

5.1. Limit

Antenna Power Limit	10mW (10dBm)
Tolerance Limit	≤+20

5.2. Block diagram of test setup



5.3. Test procedure

- (1) Connect each EUT's antenna output to power sensor by RF cable and attenuator and measure the total power.
 - (2) Antenna power is as follows:
 - a) Continuous wave: Value of step (1).
 - b) Burst wave: Calculate the average power Value from the value of step (1) and Burst Ratio.
- Note: The cable loss and attenuator loss have been taken into account.

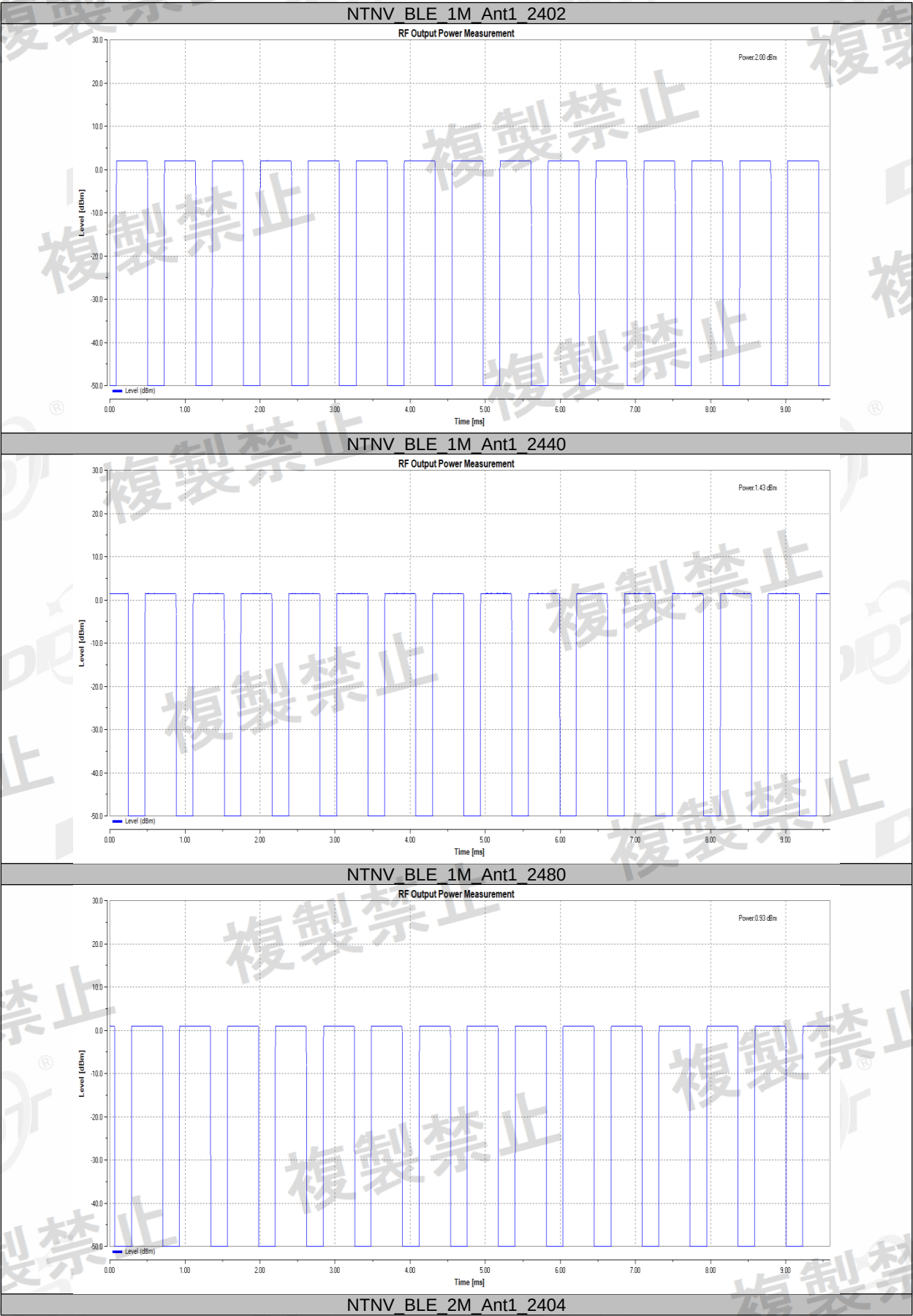
5.4. Test result

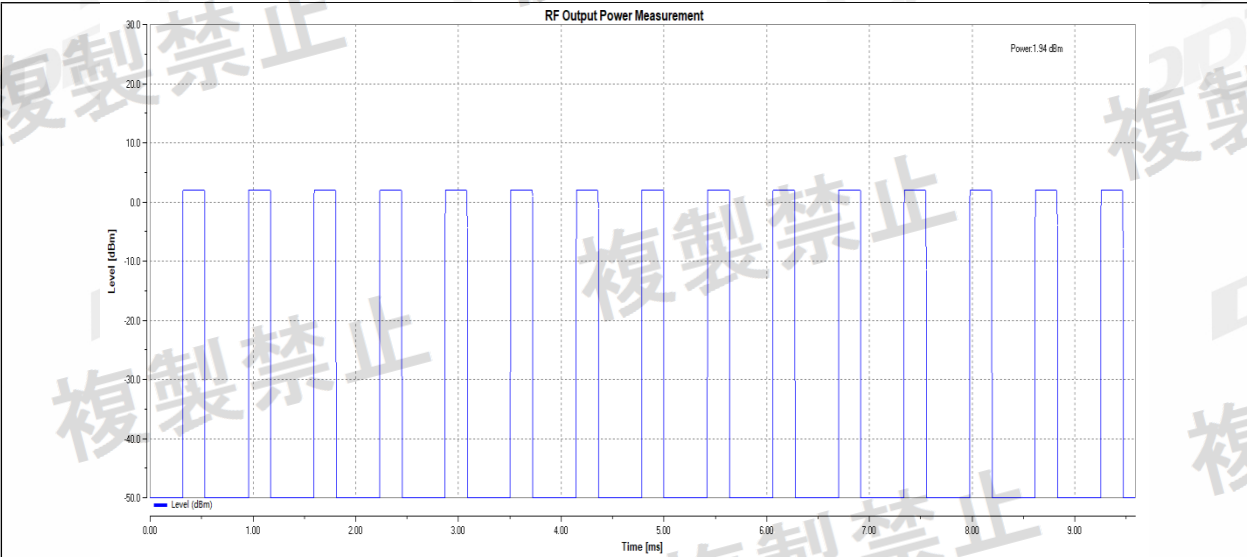
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	27.9℃,38.4%RH	Test Date:	2026.05.26-2026.05.26
Test Power Supply:	DC 3.8V	Sample Number:	S25103113-004

Antenna Power							
Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	2.00	1.58	≤10	PASS
			2440	1.43	1.39	≤10	PASS
			2480	0.93	1.24	≤10	PASS
NTNV	BLE_2M	Ant1	2404	1.94	1.56	≤10	PASS
			2440	1.38	1.37	≤10	PASS
			2478	0.92	1.24	≤10	PASS

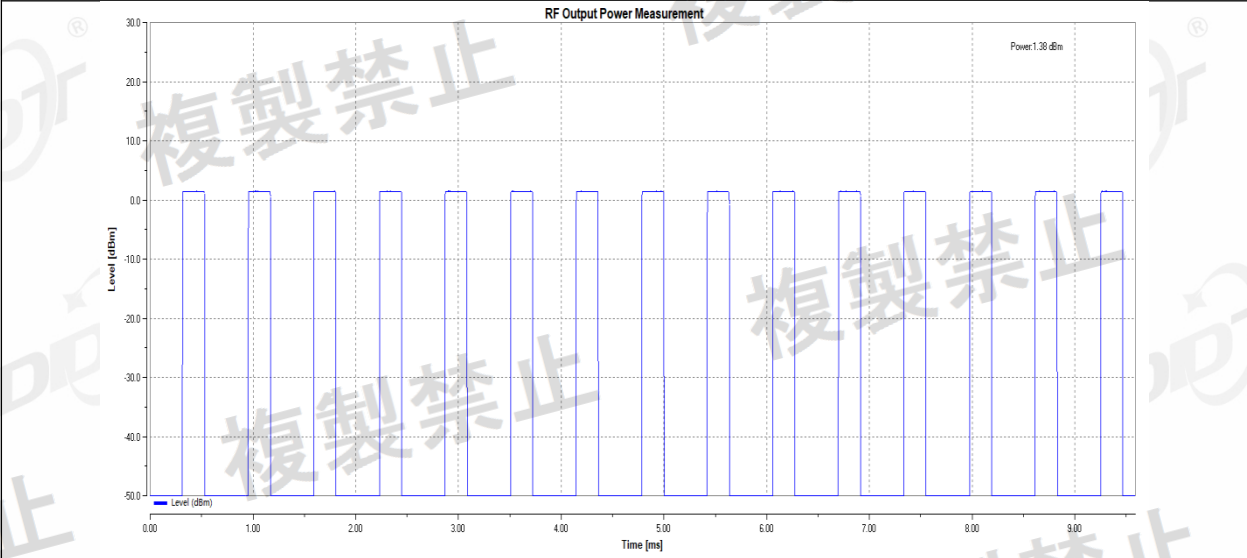
Tolerance								
Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	1.58	2.00	-20.76	≤+20	PASS
			2440	1.39	2.00	-30.50	≤+20	PASS
			2480	1.24	2.00	-38.06	≤+20	PASS
NTNV	BLE_2M	Ant1	2404	1.56	2.00	-21.84	≤+20	PASS
			2440	1.37	2.00	-31.30	≤+20	PASS
			2478	1.24	2.00	-38.20	≤+20	PASS

5.5. Test graphs

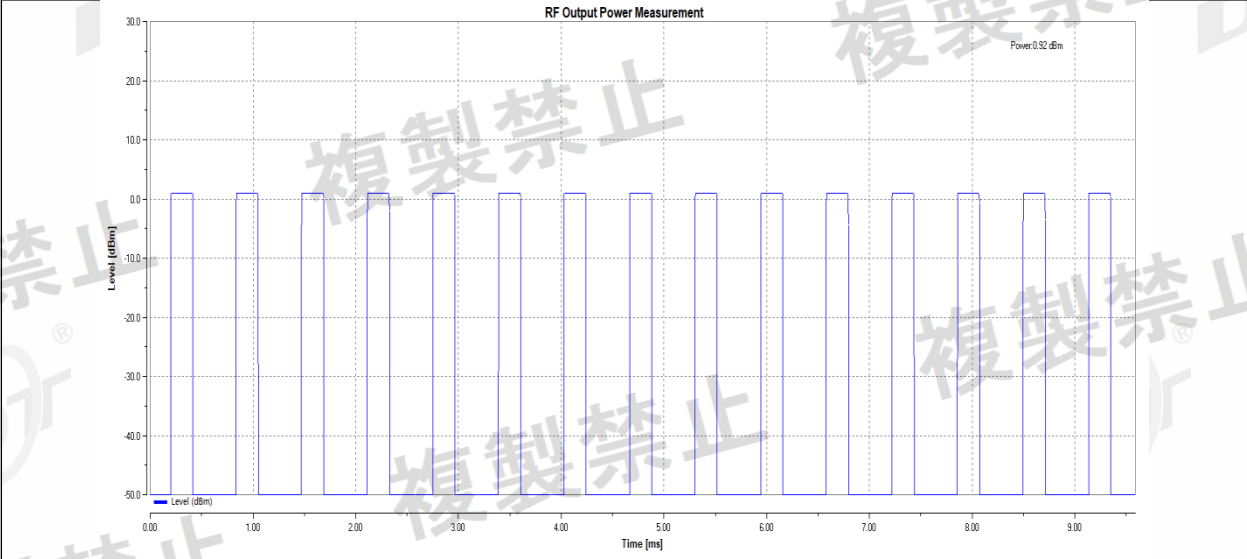




NTNV BLE 2M Ant1 2440



NTNV BLE 2M Ant1 2478

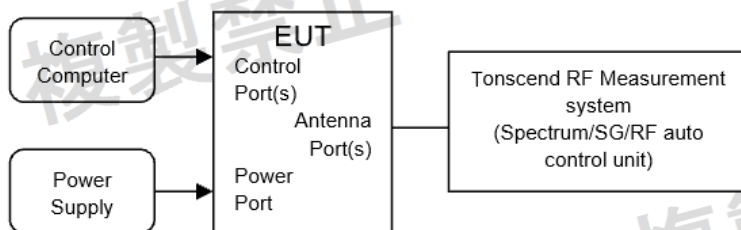


6. Occupied Frequency Bandwidth

6.1. Limit

26 MHz or less

6.2. Block diagram of test setup



6.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 300 kHz

Video BW: 300 kHz

Span: 5 MHz

Detector: Peak.

Trace Mode: Max Hold.

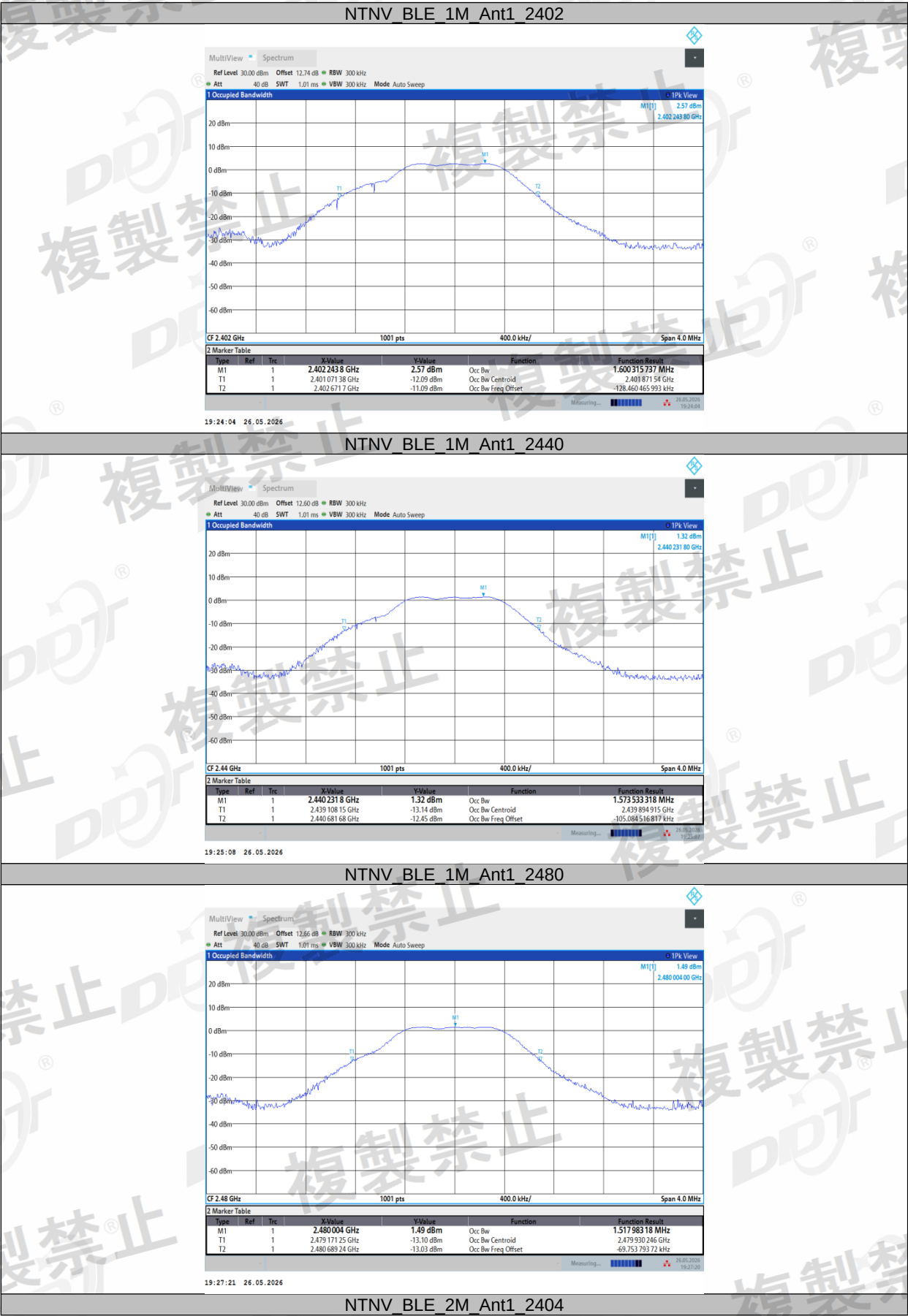
- (2) When the trace is complete, measure the Occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

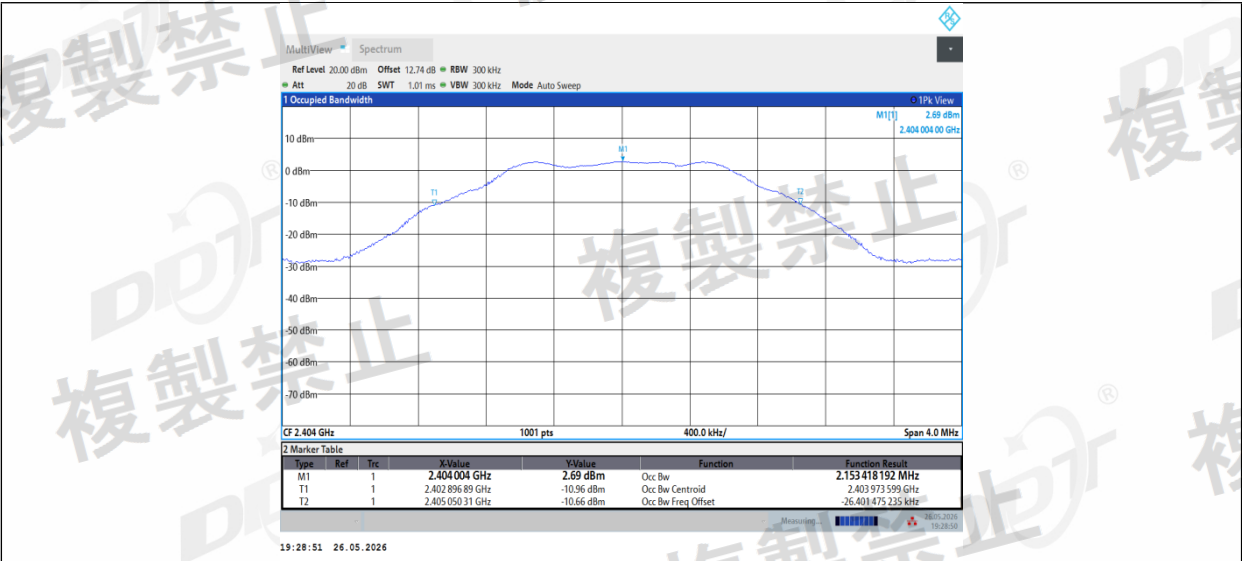
6.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	27.9℃,38.4%RH	Test Date:	2026.05.26-2026.05.26
Test Power Supply:	DC 3.8V	Sample Number:	S25103113-004

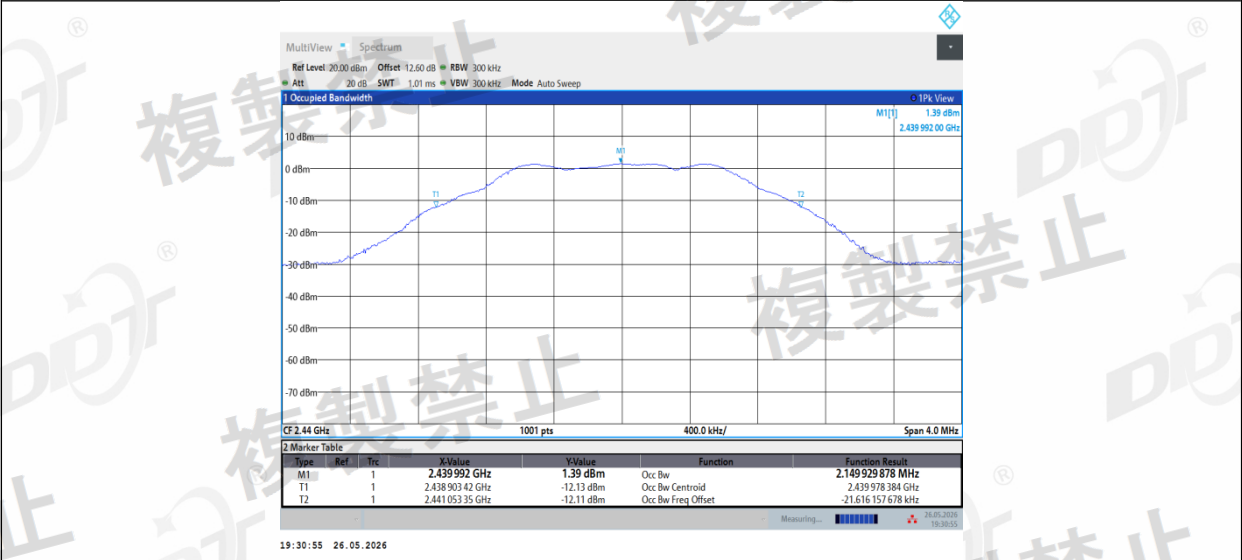
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.600	≤26	PASS
			2440	1.574	≤26	PASS
			2480	1.518	≤26	PASS
	BLE_2M	Ant1	2404	2.153	≤26	PASS
			2440	2.150	≤26	PASS
			2478	2.154	≤26	PASS

6.5. Test graphs

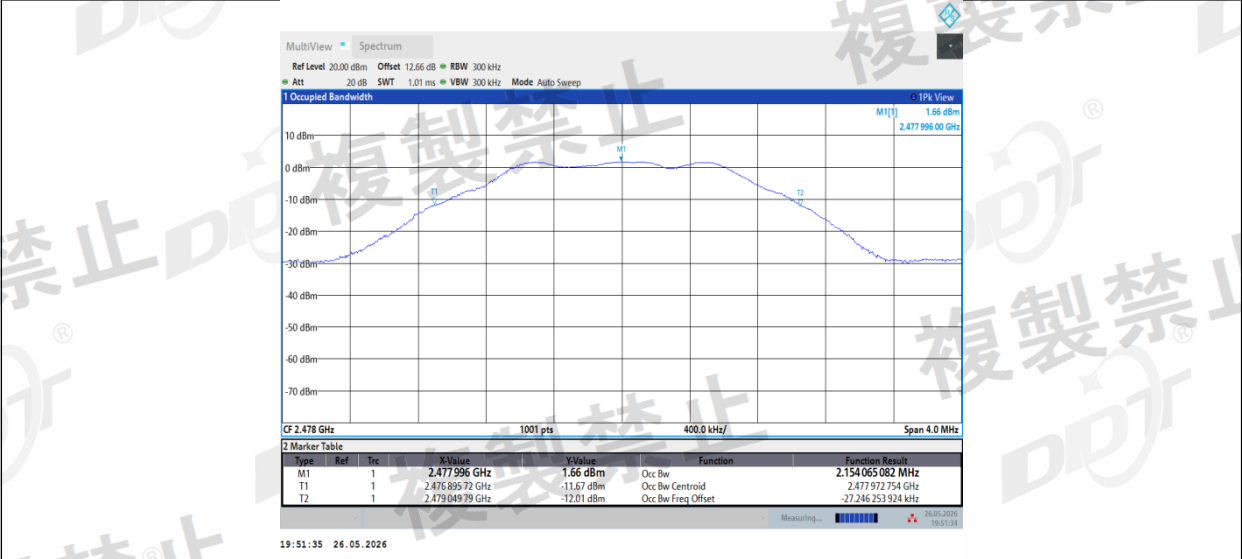




NTNV_BLE_2M_Ant1_2440



NTNV_BLE_2M_Ant1_2478



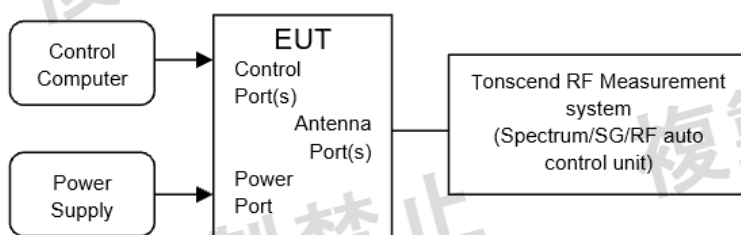
7. Transmitter Spurious Emissions

7.1. Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows:

- a. $2,387 \text{ MHz} \leq f \leq 2,400 \text{ MHz}$ and $2,483.5 \text{ MHz} < f \leq 2,496.5 \text{ MHz}$ 25 μW or less
- b. $2,387 \text{ MHz} > f$ and $2,496.5 \text{ MHz} < f$ 2.5 μW or less

7.2. Block diagram of test setup



7.3. Test procedure

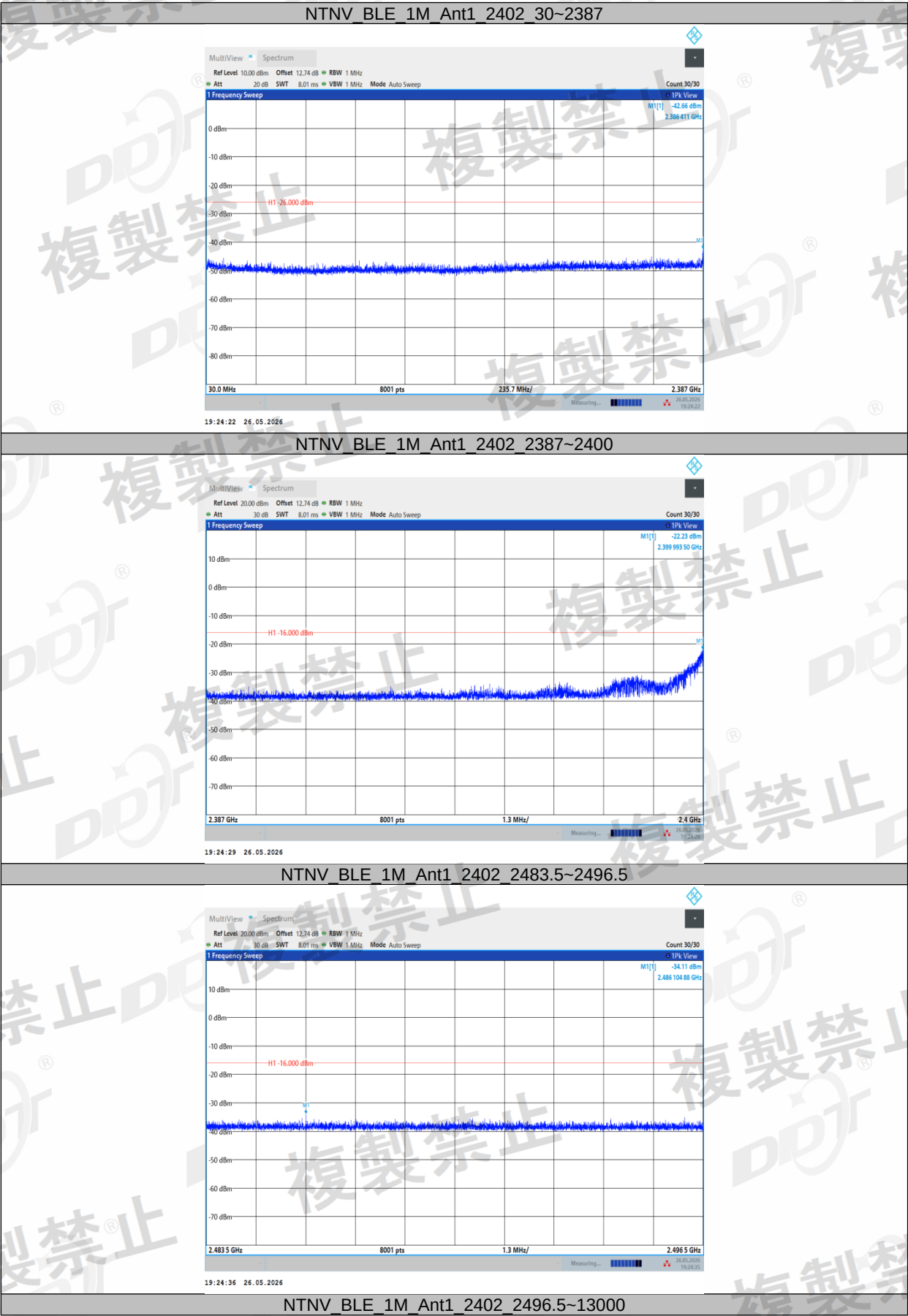
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator.
- (2) Set the Spectrum Analyzer as below, sweep the frequency, and search for unwanted emission.
Resolution BW: 1 MHz,
Video BW: Same with Resolution BW,
Detector: Peak,
Trace Mode: Max Hold,
- (3) All the emissions from 30 MHz to 13 GHz were measured and record.
- (4) In the vicinity of the carrier wave, etc., it is possible to set a narrower resolution bandwidth for measurement as necessary. In that case, convert the intensity of the unwanted emission to the value in the reference bandwidth. For this report if spurious emissions are greater than [limit -3dB] in 1MHz RBW, then more detailed measurements are required. Repeat the test in 30kHz RBW, the spurious emission value using following the formula below:
Calculated Value = (Measured Value + 15.2 dB)
15.2 dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2[\text{dB}]$
Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz

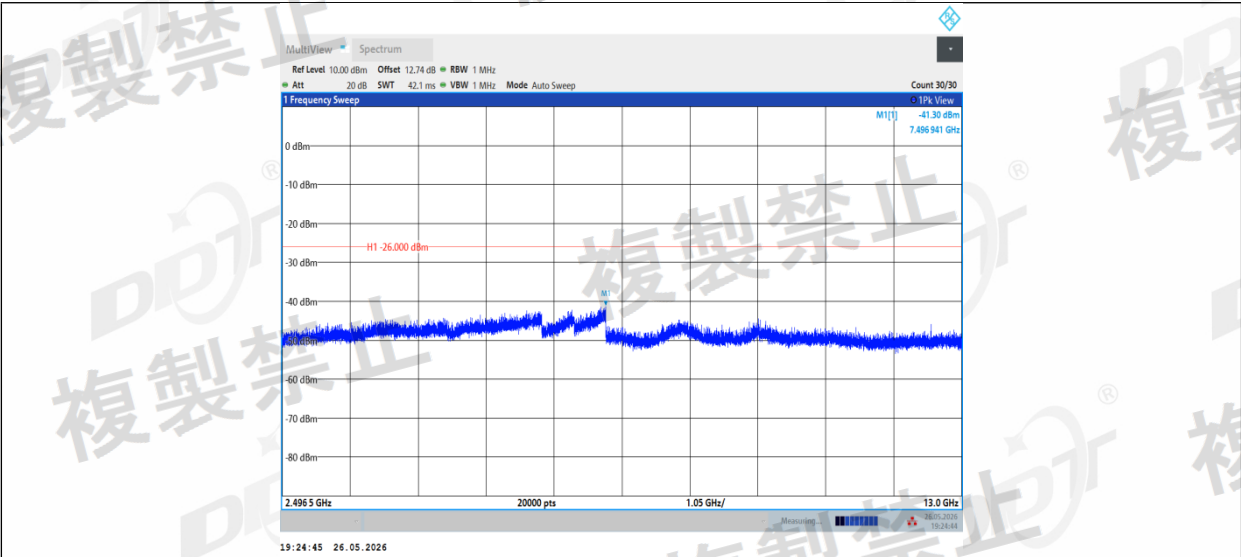
7.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	27.9℃,38.4%RH	Test Date:	2026.05.26-2026.05.26
Test Power Supply:	DC 3.8V	Sample Number:	S25103113-004

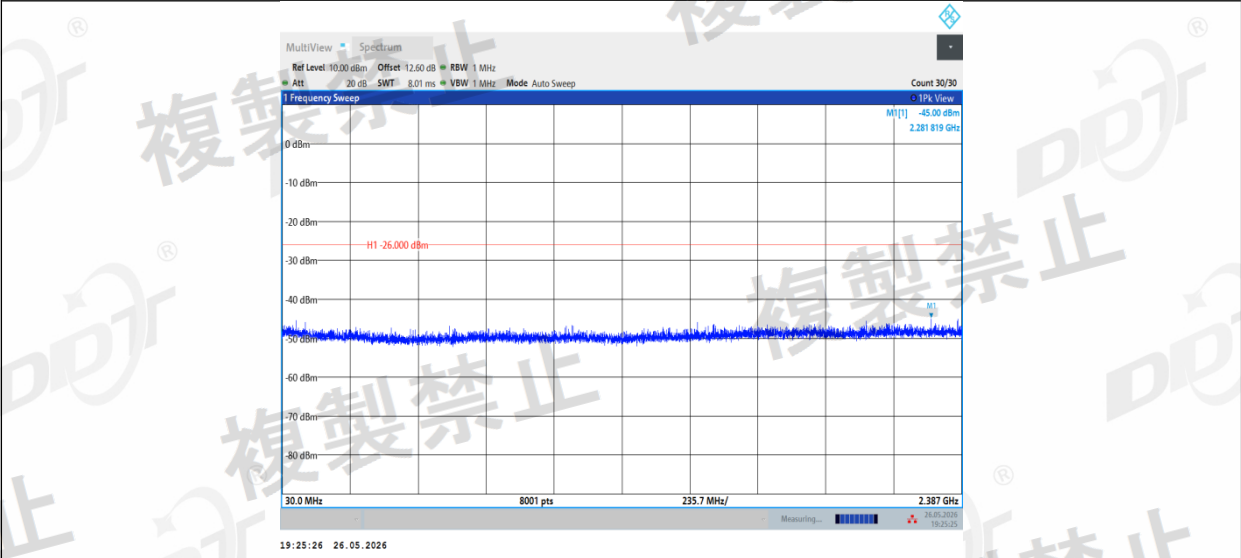
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~2387	2386.41	-42.66	≤-26	0.05420	≤2.5	PASS
				2387~2400	2399.99	-22.23	≤-16	5.98412	≤25	PASS
				2483.5~2496.5	2486.10	-34.11	≤-16	0.38815	≤25	PASS
				2496.5~13000	7496.94	-41.30	≤-26	0.07413	≤2.5	PASS
			2440	30~2387	2281.82	-45.00	≤-26	0.03162	≤2.5	PASS
				2387~2400	2394.21	-35.54	≤-16	0.27925	≤25	PASS
				2483.5~2496.5	2484.55	-35.34	≤-16	0.29242	≤25	PASS
				2496.5~13000	7485.39	-39.80	≤-26	0.10471	≤2.5	PASS
			2480	30~2387	2211.40	-45.32	≤-26	0.02938	≤2.5	PASS
				2387~2400	2393.57	-35.24	≤-16	0.29923	≤25	PASS
				2483.5~2496.5	2483.93	-32.36	≤-16	0.58076	≤25	PASS
				2496.5~13000	7492.21	-40.58	≤-26	0.08750	≤2.5	PASS
	BLE_2M	Ant1	2404	30~2387	44.73	-45.06	≤-26	0.03119	≤2.5	PASS
				2387~2400	2399.68	-30.42	≤-16	0.90782	≤25	PASS
				2483.5~2496.5	2490.14	-35.36	≤-16	0.29107	≤25	PASS
				2496.5~13000	7485.91	-41.66	≤-26	0.06823	≤2.5	PASS
			2440	30~2387	40.02	-45.54	≤-26	0.02793	≤2.5	PASS
				2387~2400	2387.52	-34.97	≤-16	0.31842	≤25	PASS
				2483.5~2496.5	2484.99	-35.57	≤-16	0.27733	≤25	PASS
				2496.5~13000	6381.41	-41.04	≤-26	0.07870	≤2.5	PASS
			2478	30~2387	2275.93	-45.29	≤-26	0.02958	≤2.5	PASS
				2387~2400	2394.93	-35.37	≤-16	0.29040	≤25	PASS
				2483.5~2496.5	2493.94	-34.64	≤-16	0.34356	≤25	PASS
				2496.5~13000	7490.11	-41.19	≤-26	0.07603	≤2.5	PASS

7.5. Test graphs

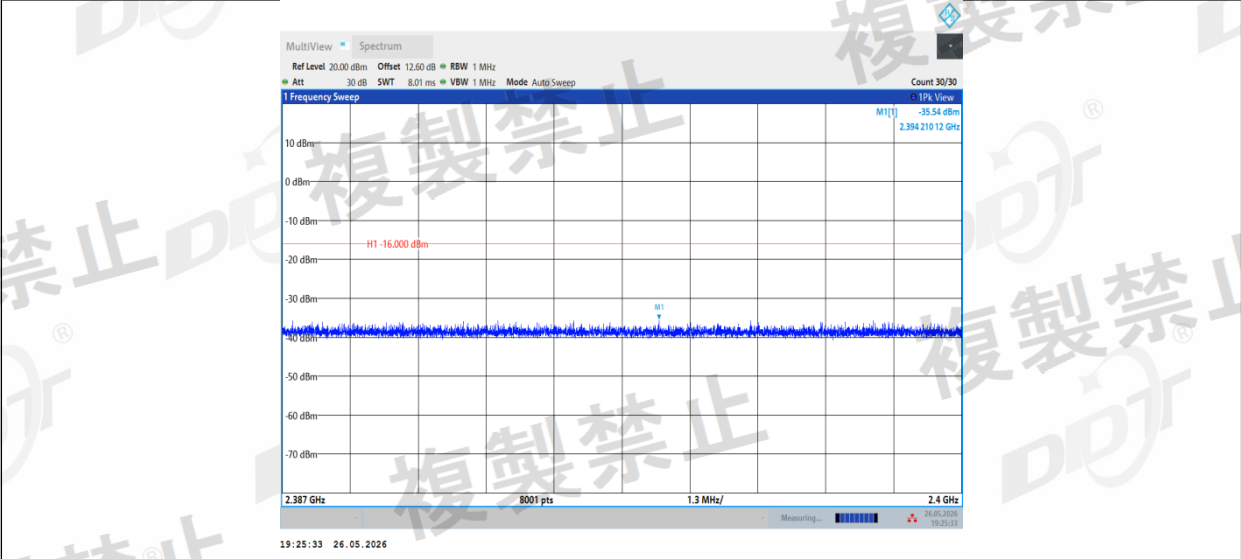




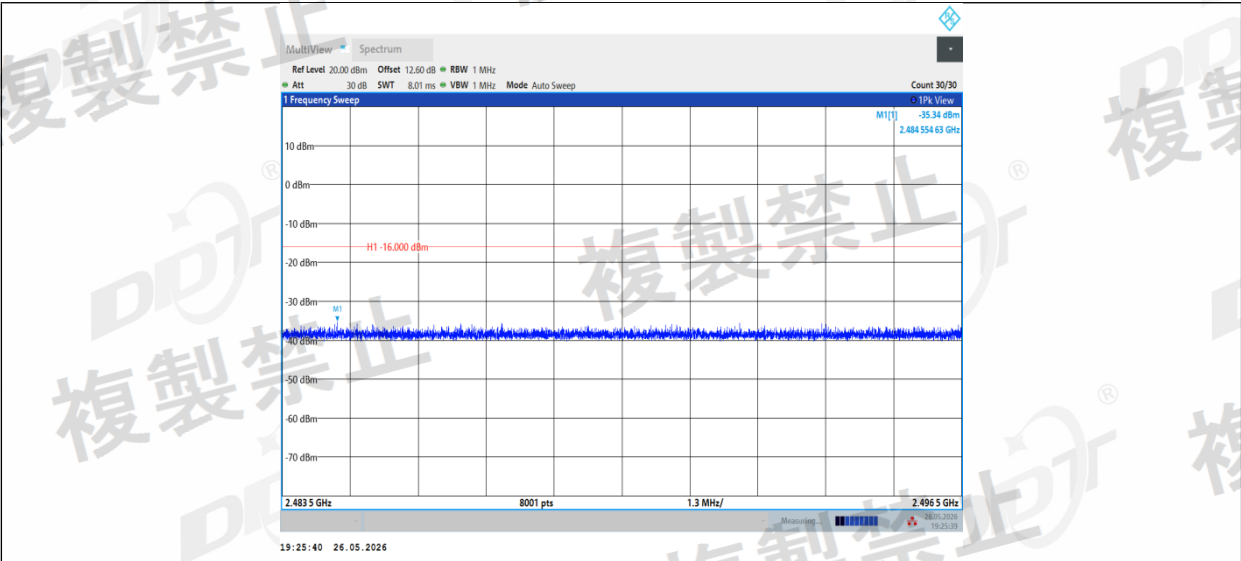
NTNV_BLE_1M_Ant1_2440_30~2387



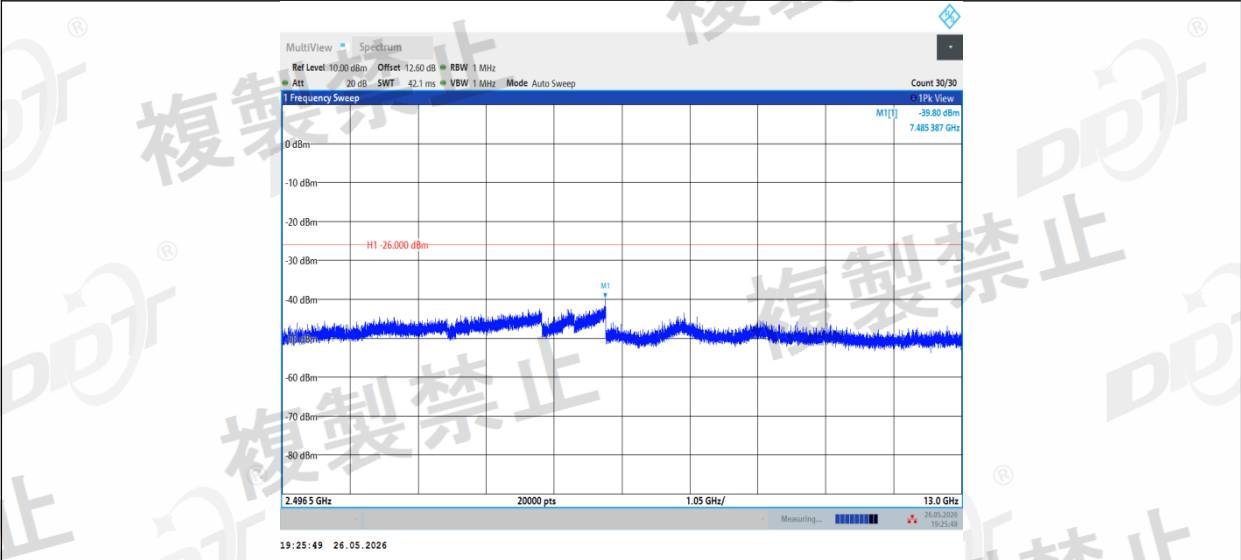
NTNV_BLE_1M_Ant1_2440_2387~2400



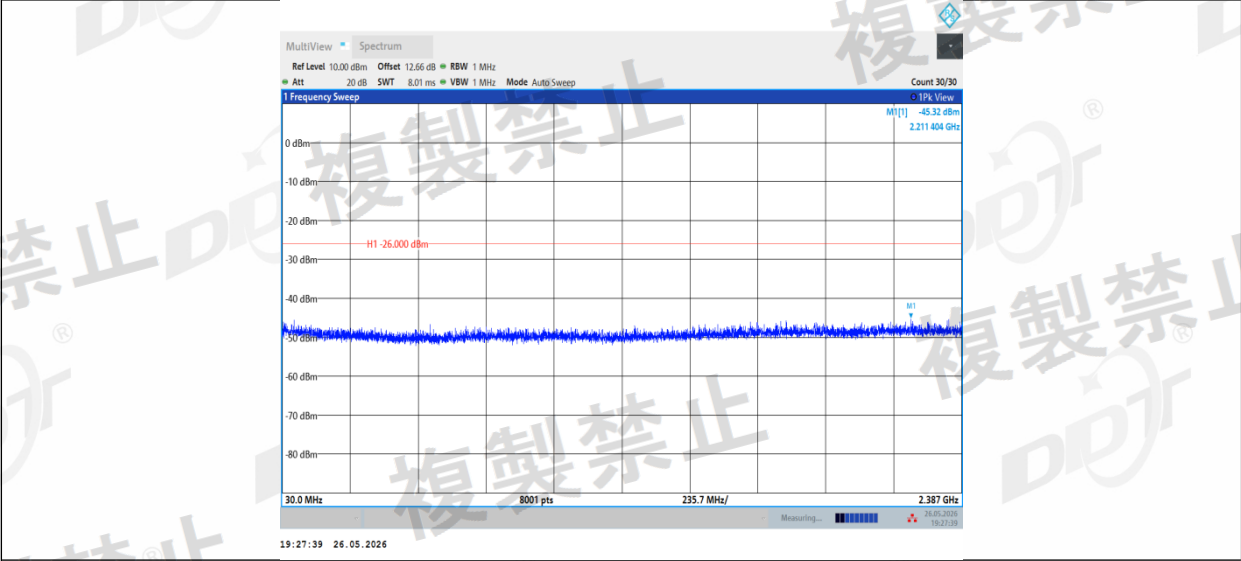
NTNV_BLE_1M_Ant1_2440_2483.5~2496.5



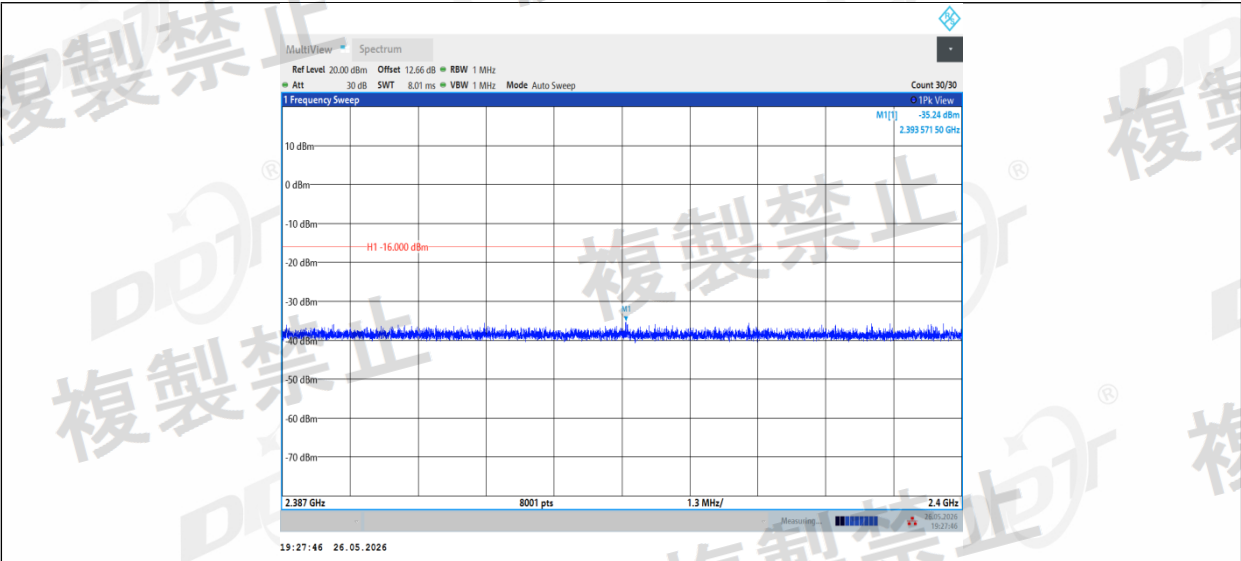
NTVN_BLE_1M_Ant1_2440_2496.5~13000



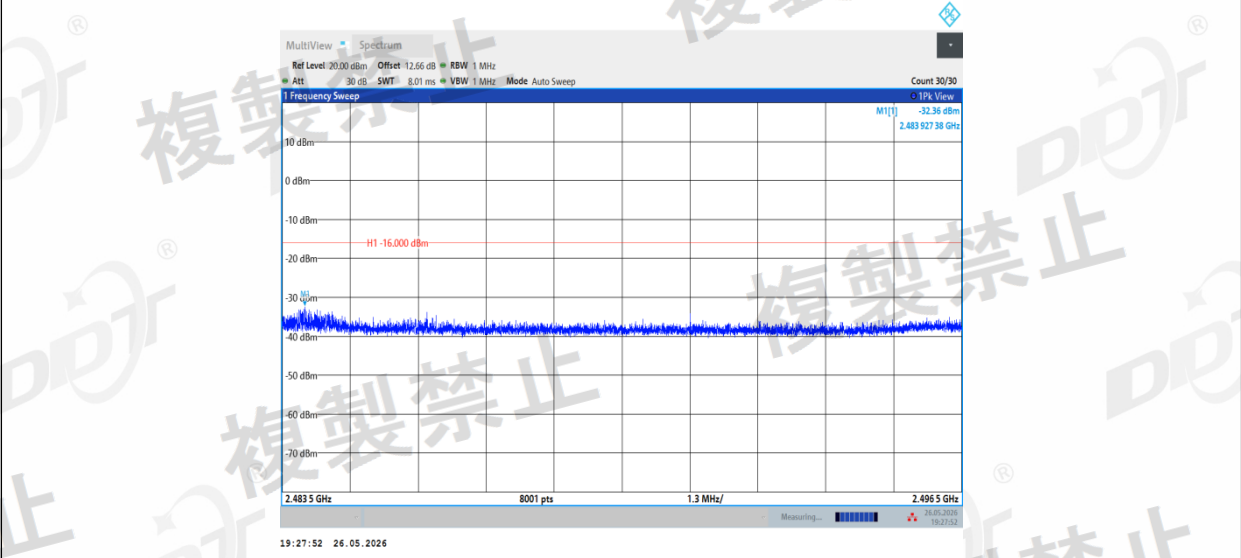
NTVN_BLE_1M_Ant1_2480_30~2387



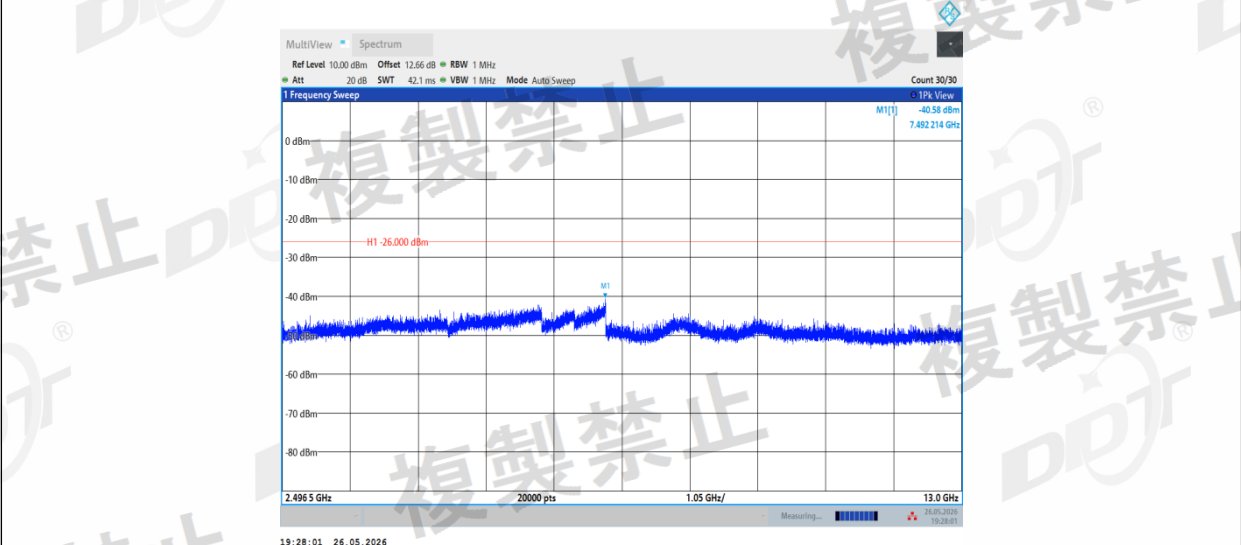
NTVN_BLE_1M_Ant1_2480_2387~2400



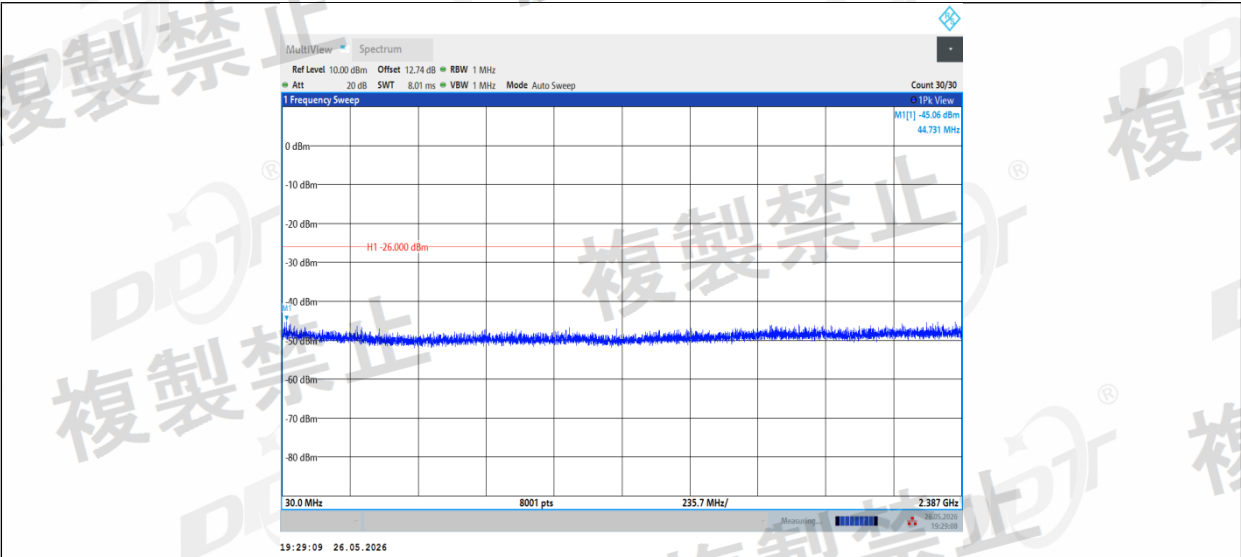
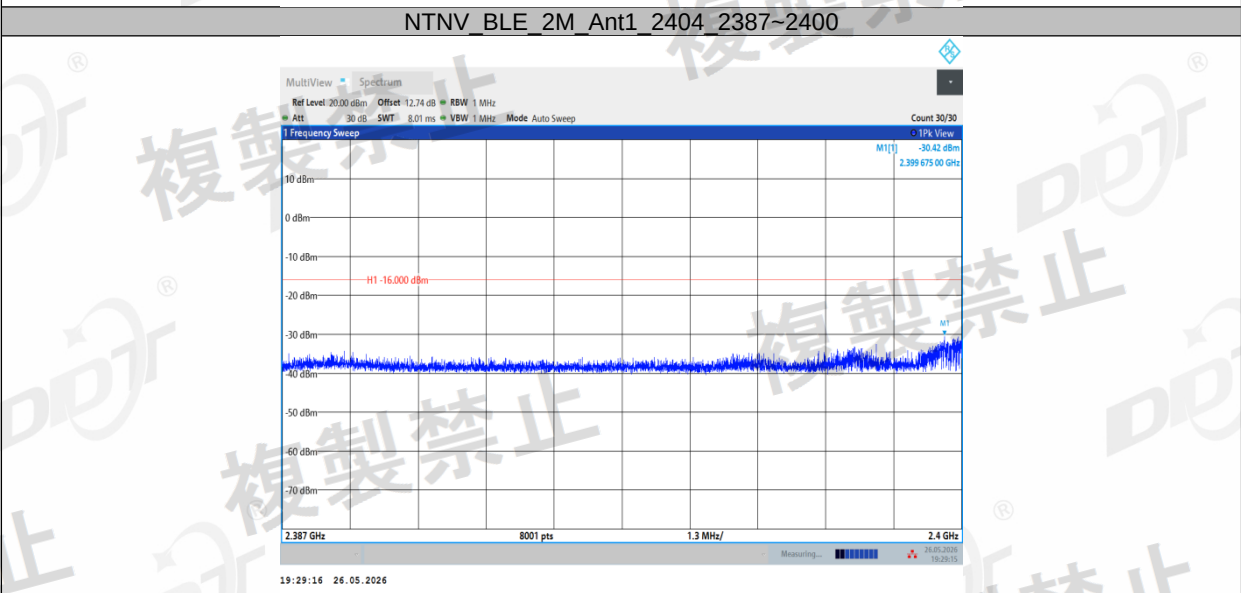
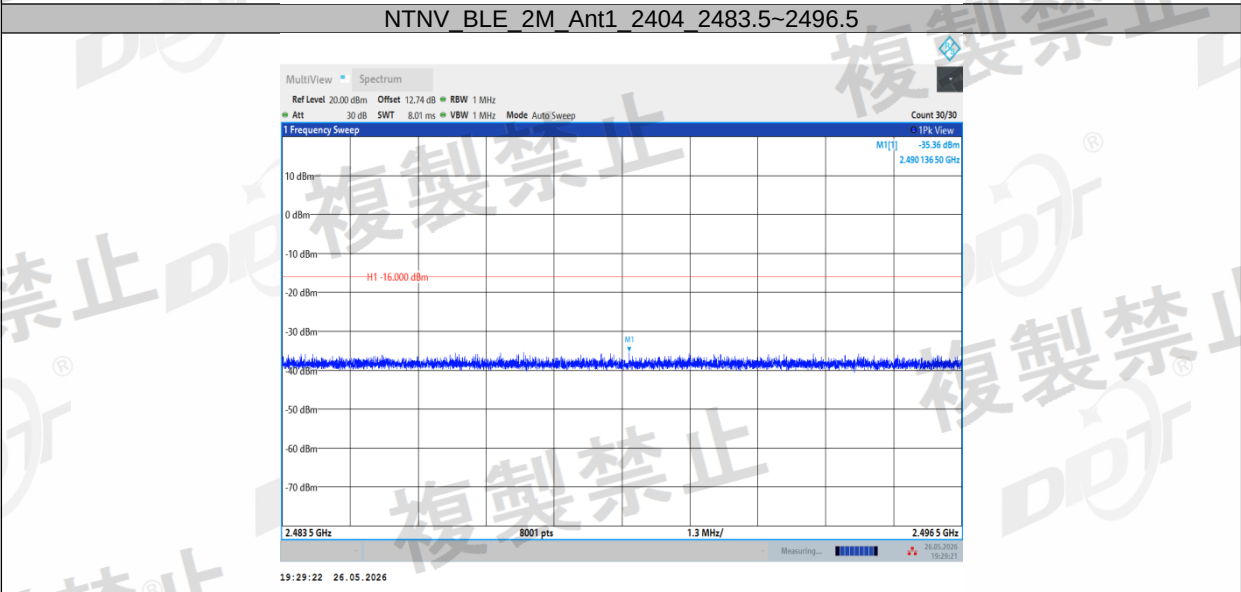
NTNV_BLE_1M_Ant1_2480_2483.5~2496.5

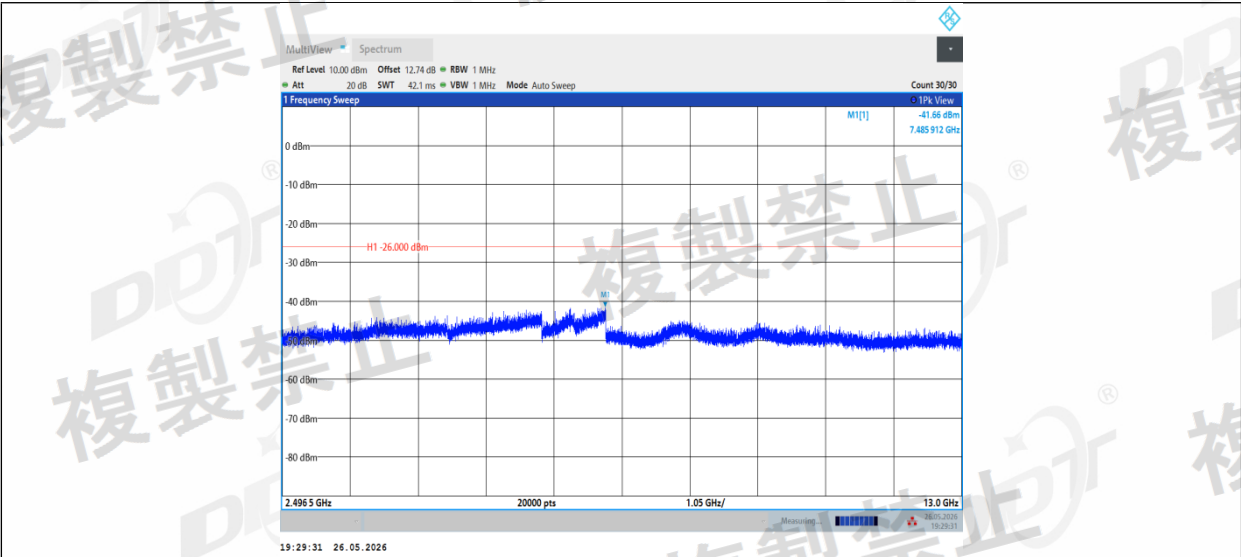


NTNV_BLE_1M_Ant1_2480_2496.5~13000

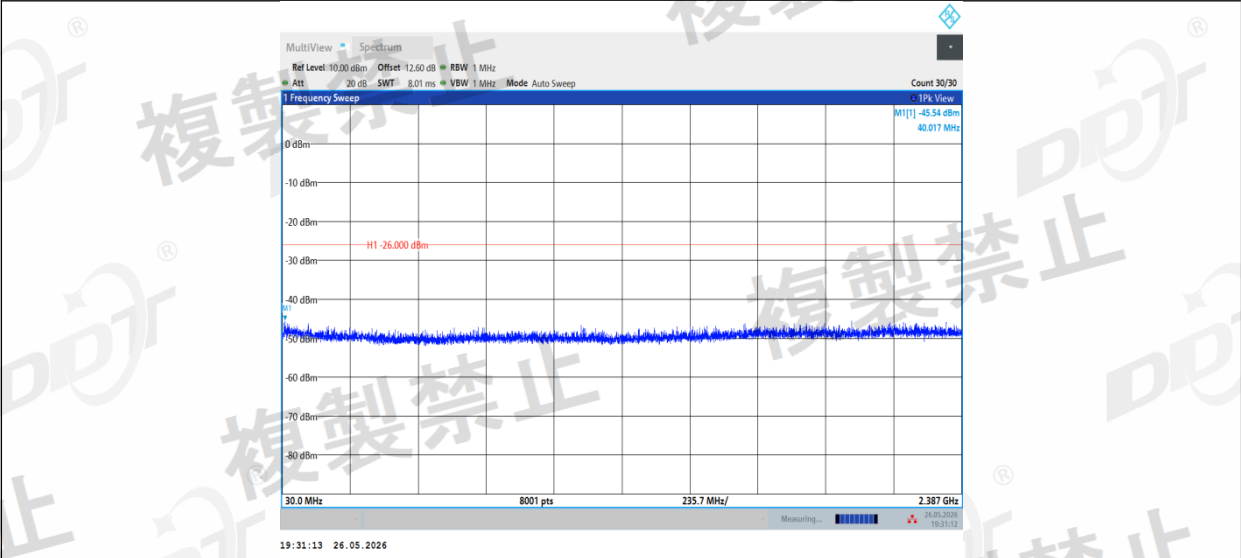


NTNV_BLE_2M_Ant1_2404_30~2387

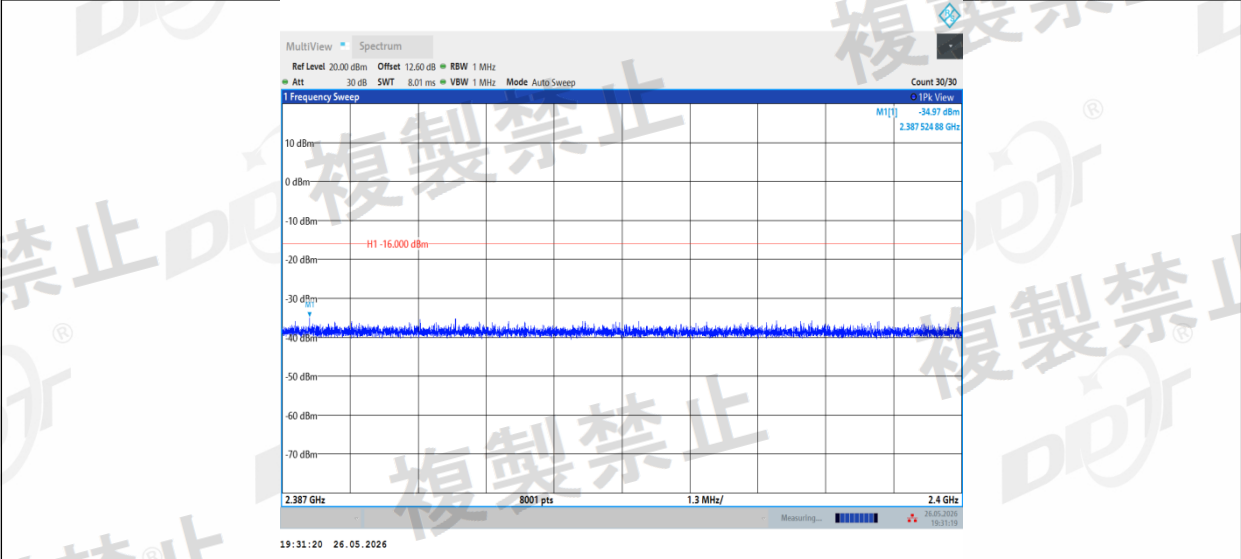




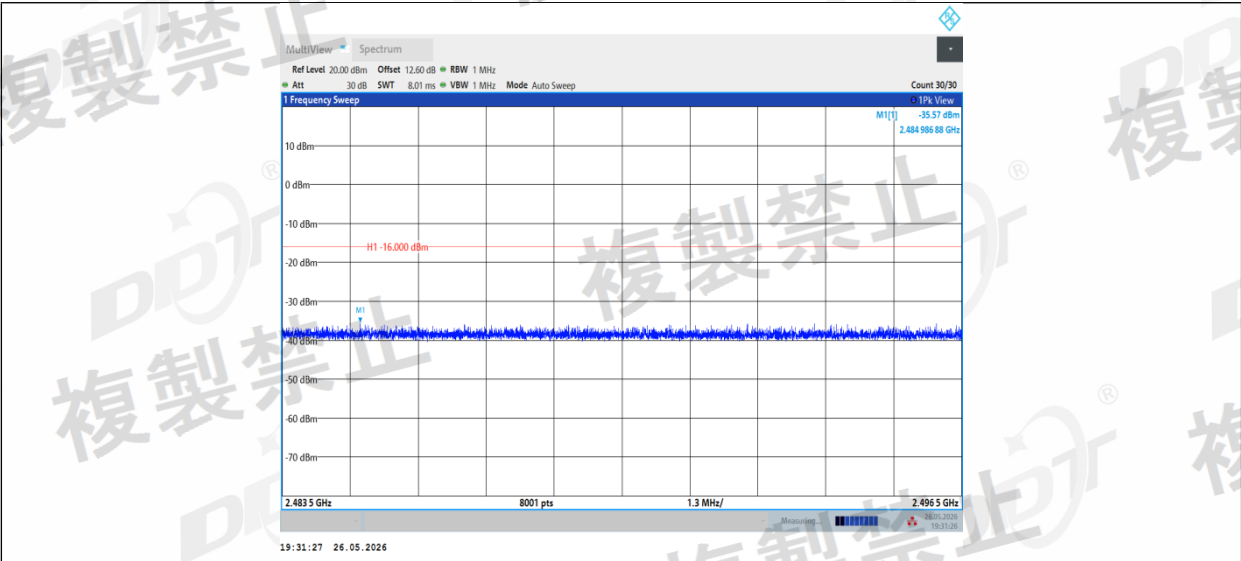
NTVN_BLE_2M_Ant1_2440_30~2387



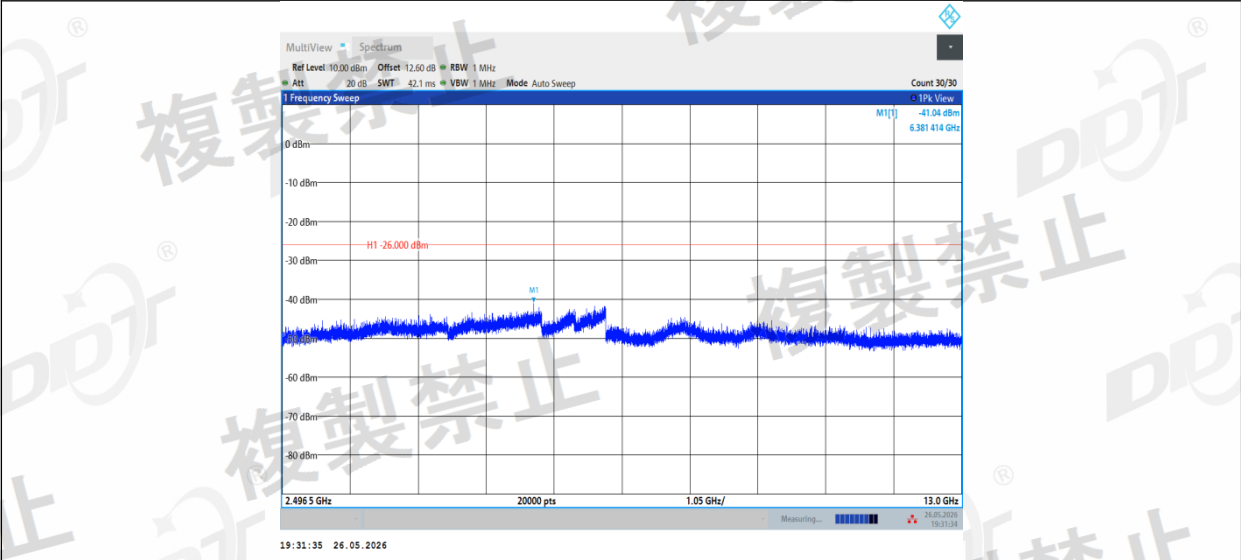
NTVN_BLE_2M_Ant1_2440_2387~2400



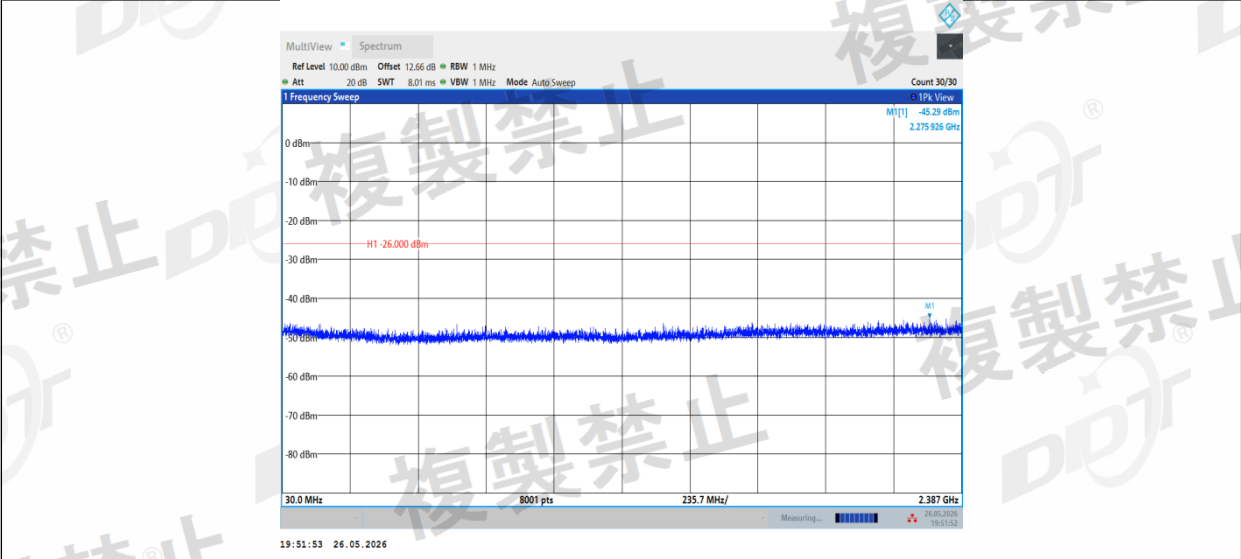
NTVN_BLE_2M_Ant1_2440_2483.5~2496.5



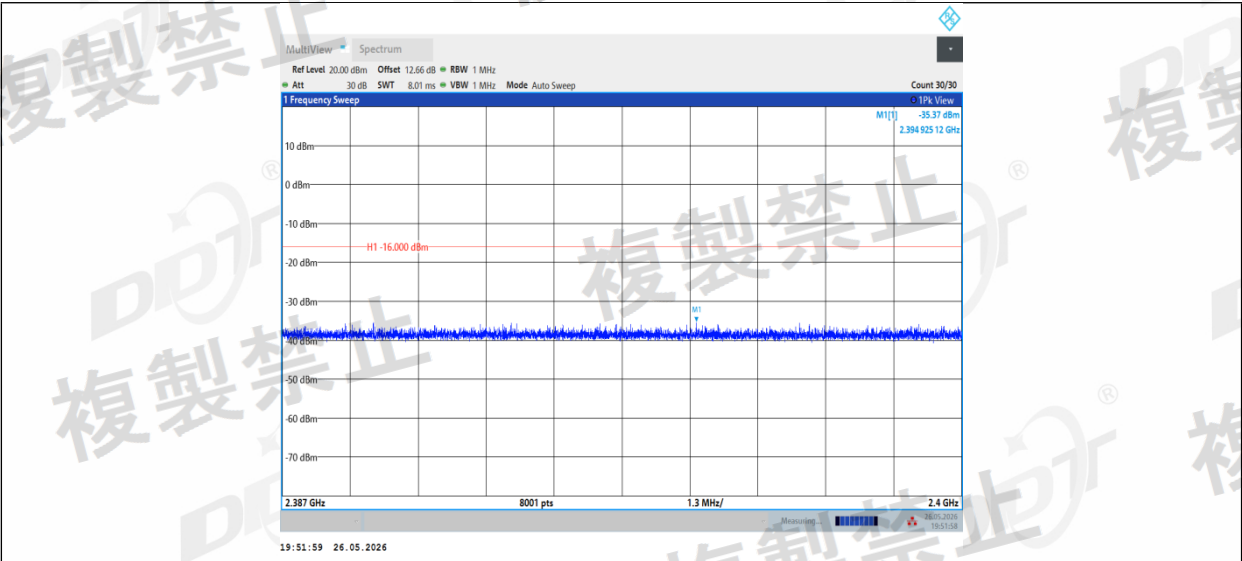
NTVN_BLE_2M_Ant1_2440_2496.5~13000



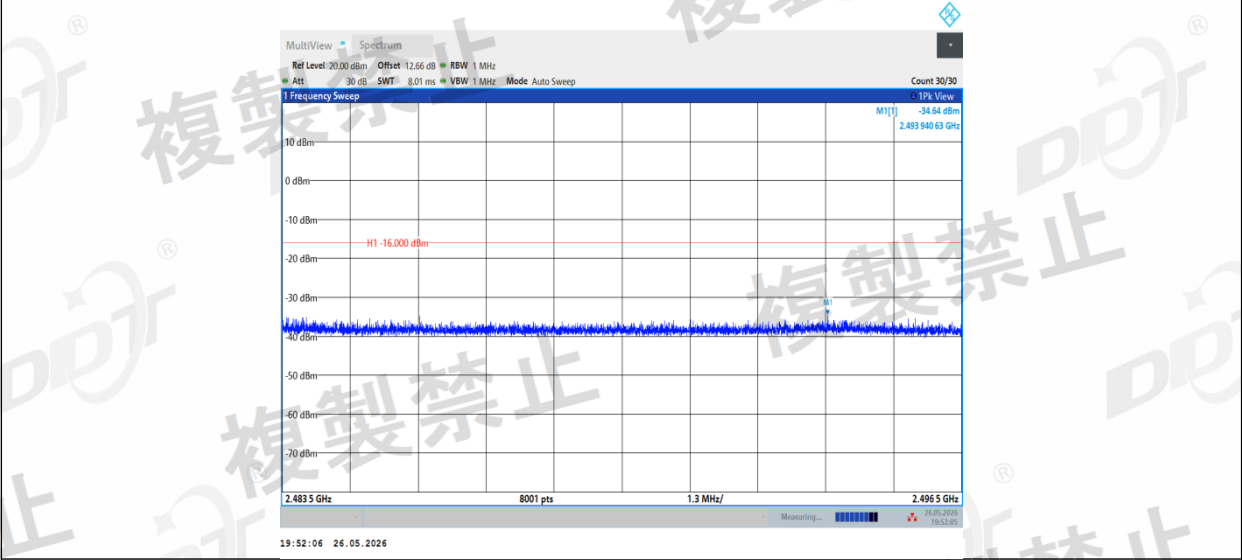
NTVN_BLE_2M_Ant1_2478_30~2387



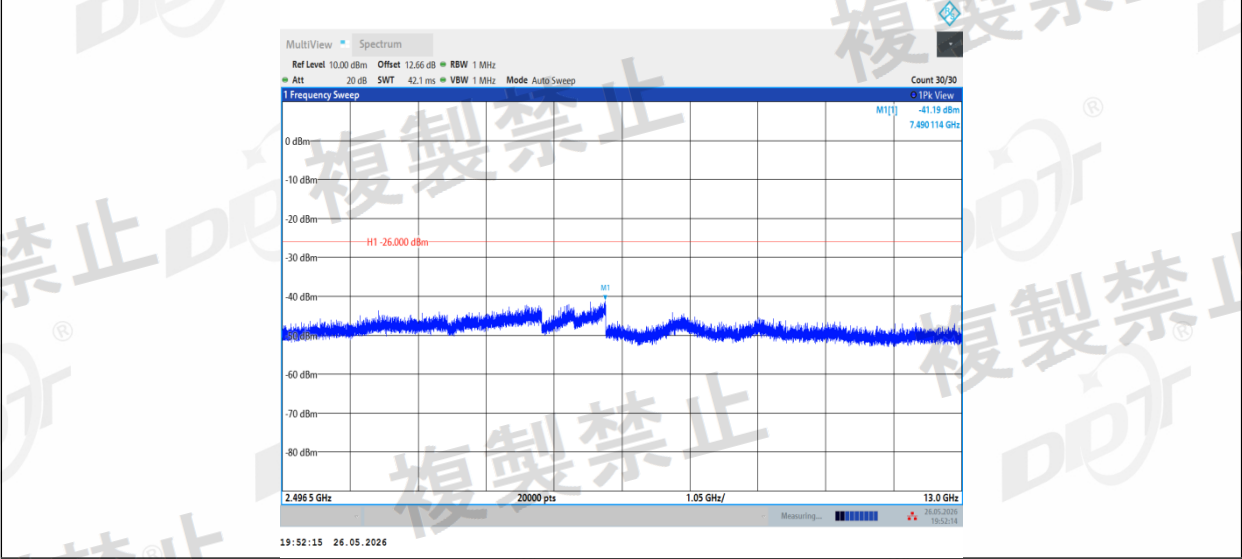
NTVN_BLE_2M_Ant1_2478_2387~2400



NTNV_BLE_2M_Ant1_2478_2483.5~2496.5



NTNV_BLE_2M_Ant1_2478_2496.5~13000

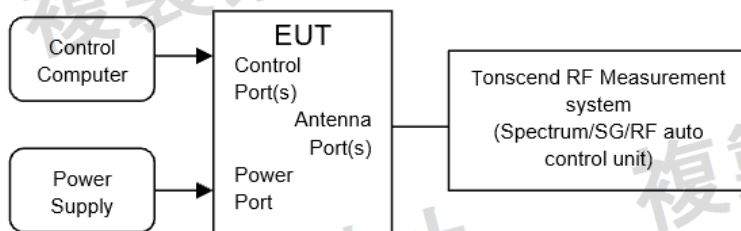


8. Secondary Radiated Emissions

8.1. Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

8.2. Block diagram of test setup



8.3. Test procedure

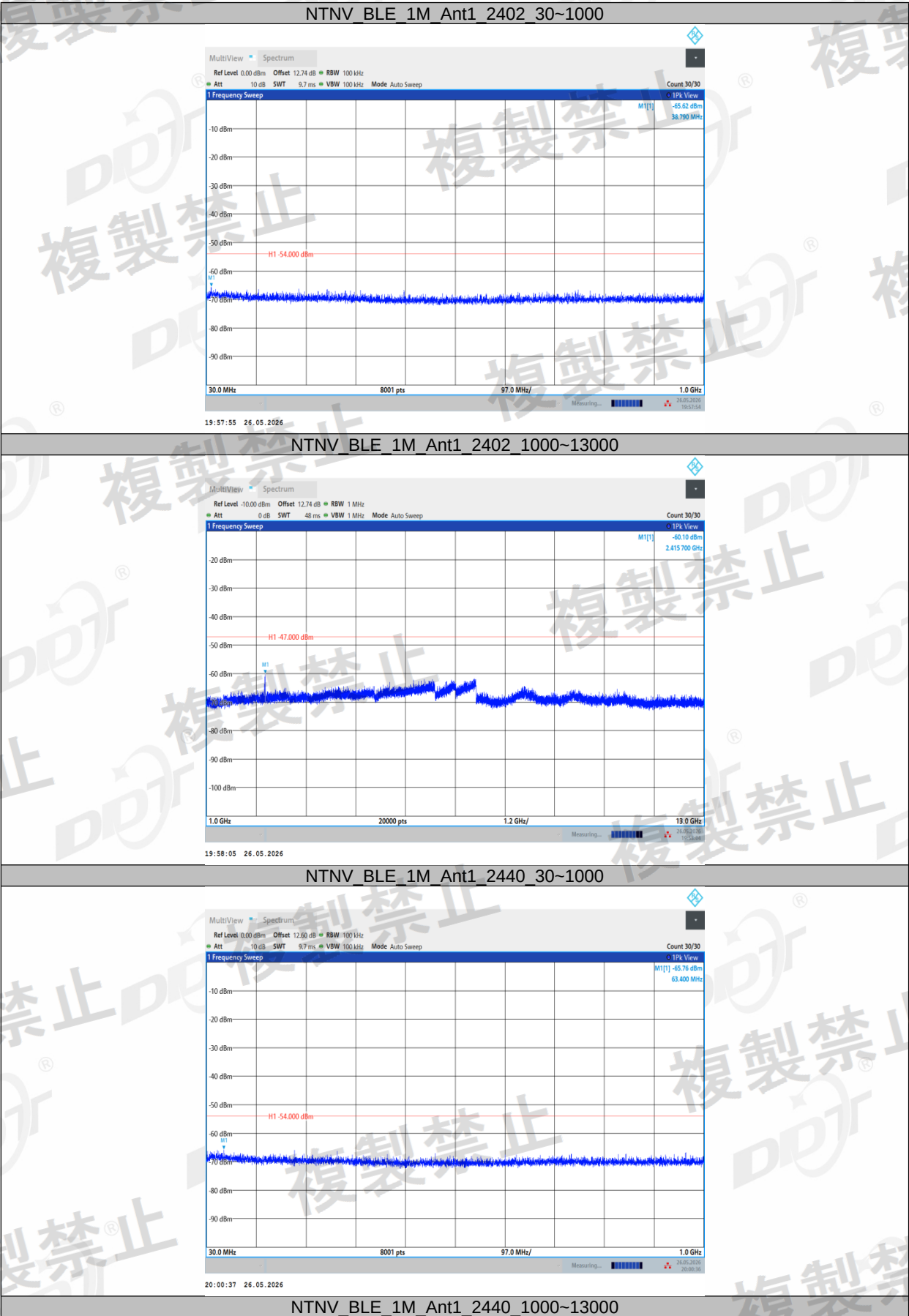
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Resolution BW: 100 kHz for frequency below 1 GHz and 1 MHz for frequency above 1 GHz
Video BW: 100 kHz for frequency below 1 GHz and 1 MHz for frequency above 1 GHz
Detector: Peak.
Trace Mode: Max Hold.
- (2) All the emissions from 30 MHz to 13 GHz were measured and record.
- (3) If the searched value is 1/10 or less of the allowable value specified in the Equipment Regulations, the searched value shall be the measured value.
- (4) If the searched value exceeds 1/10 of the allowable value specified in the equipment Regulations, the frequency sweep width is gradually narrowed to about 10 times the resolution bandwidth in order to improve the setting accuracy of the center frequency of the spectrum analyzer. Then, measure the secondary emission frequency, set the spectrum analyzer as below, perform averaging, and measure the secondary emission power.
Span: 0Hz
Resolution BW: 100kHz for frequency below 1GHz and 1MHz for frequency above 1GHz.
Video BW: Same with Resolution BW
Detector: Sample
Trace Mode: Max. Hold

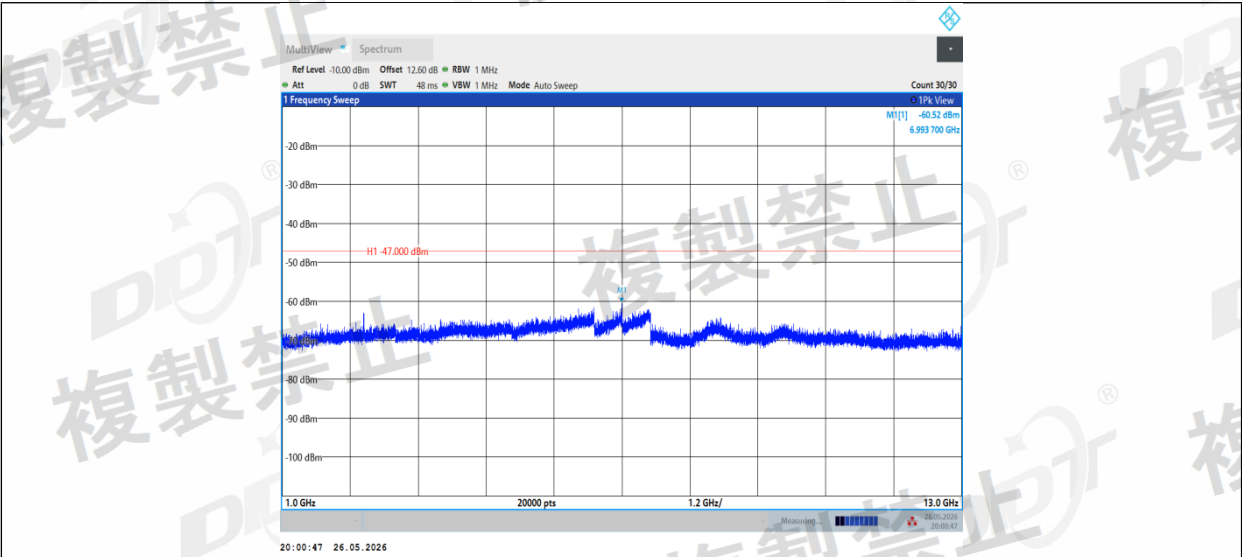
8.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	27.9℃,38.4%RH	Test Date:	2026.05.26-2026.05.26
Test Power Supply:	DC 3.8V	Sample Number:	S25103113-004

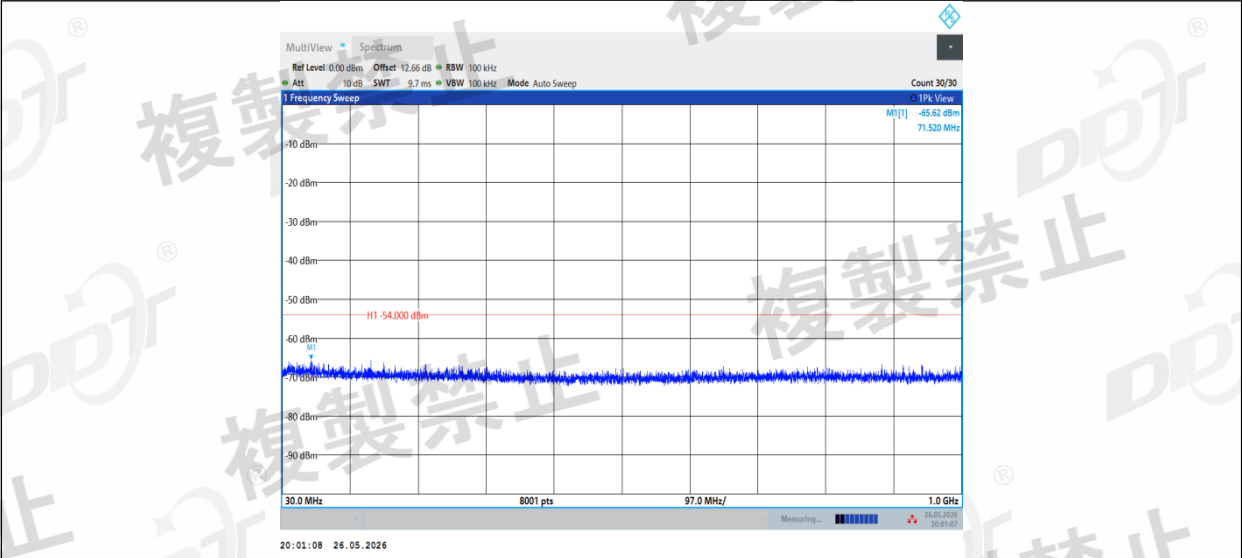
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	38.79	-65.62	≤-54	0.27416	≤4	PASS
				1000~13000	2415.70	-60.10	≤-47	0.97724	≤20	PASS
			2440	30~1000	63.40	-65.76	≤-54	0.26546	≤4	PASS
				1000~13000	6993.70	-60.52	≤-47	0.88716	≤20	PASS
			2480	30~1000	71.52	-65.62	≤-54	0.27416	≤4	PASS
				1000~13000	7462.90	-61.50	≤-47	0.70795	≤20	PASS
	BLE_2M	Ant1	2404	30~1000	179.66	-66.27	≤-54	0.23605	≤4	PASS
				1000~13000	6329.50	-61.54	≤-47	0.70146	≤20	PASS
			2440	30~1000	43.40	-66.20	≤-54	0.23988	≤4	PASS
				1000~13000	7468.90	-61.65	≤-47	0.68391	≤20	PASS
			2478	30~1000	55.88	-66.25	≤-54	0.23714	≤4	PASS
				1000~13000	7489.90	-60.81	≤-47	0.82985	≤20	PASS

8.5. Test graphs

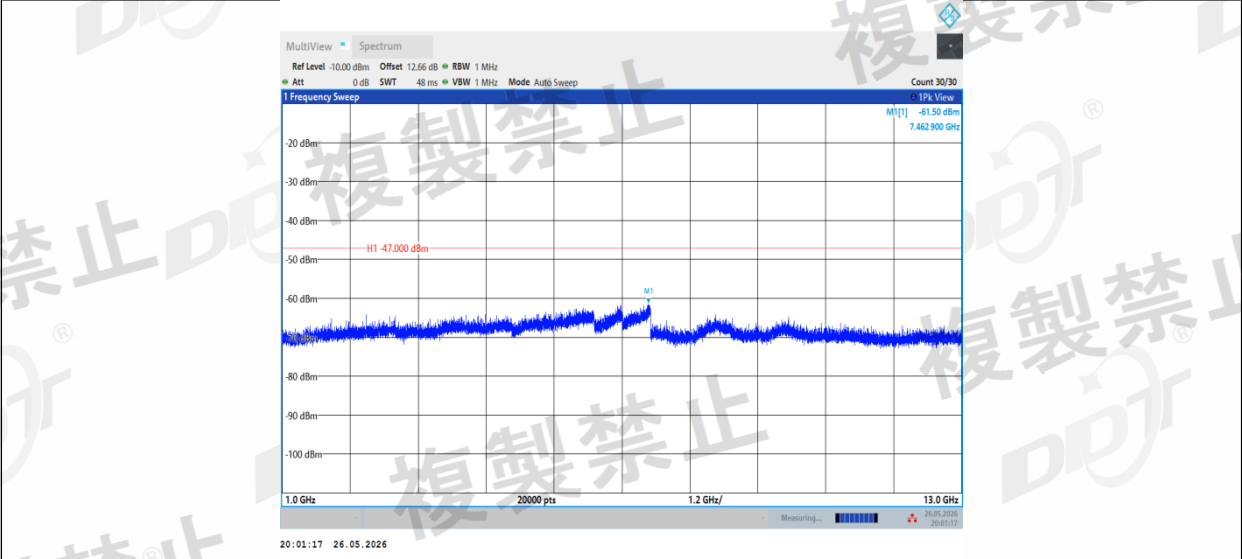




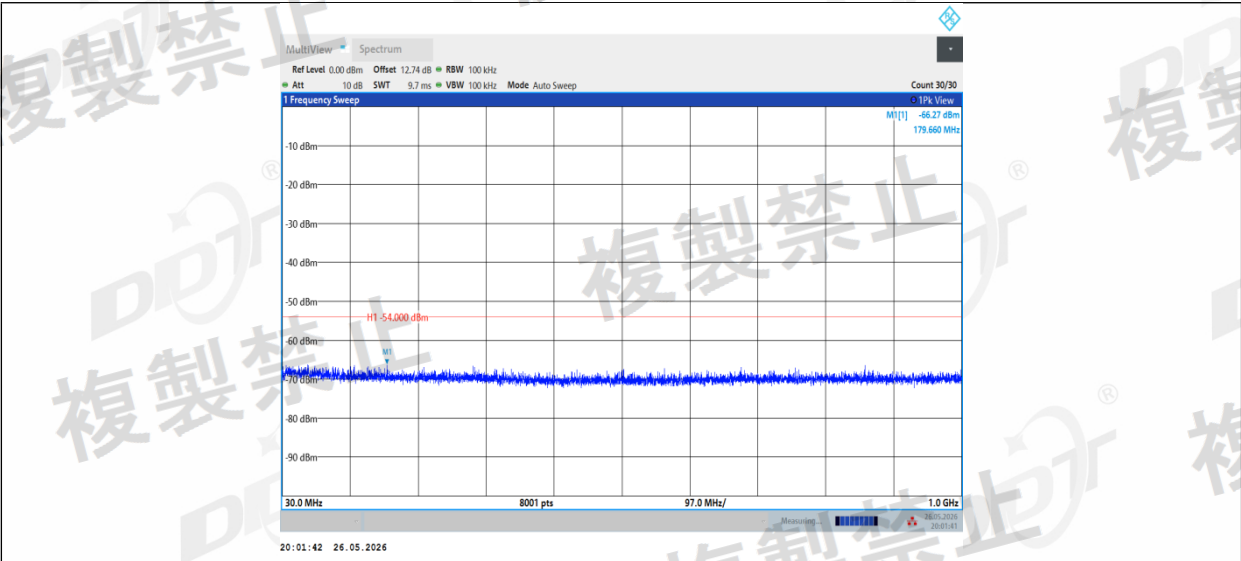
NTVN_BLE_1M_Ant1_2480_30~1000



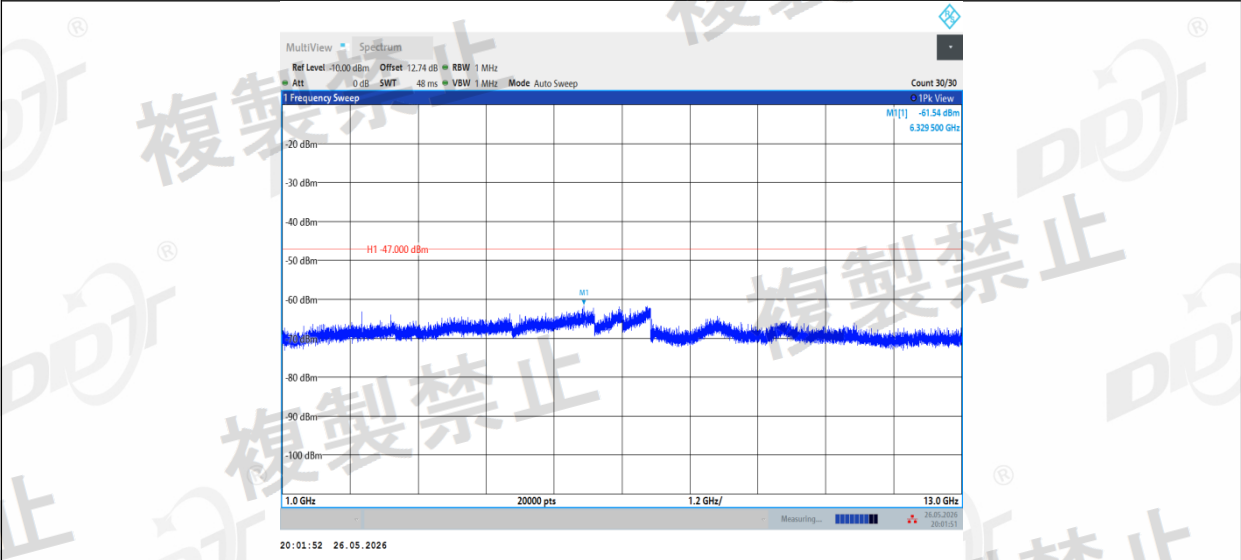
NTVN_BLE_1M_Ant1_2480_1000~13000



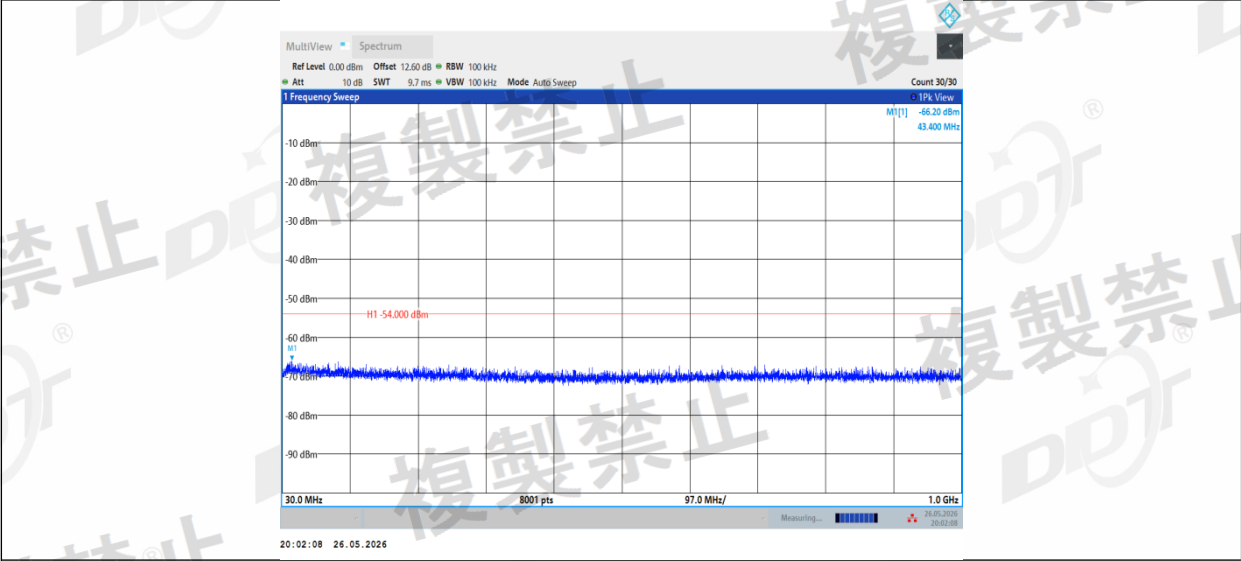
NTVN_BLE_2M_Ant1_2404_30~1000



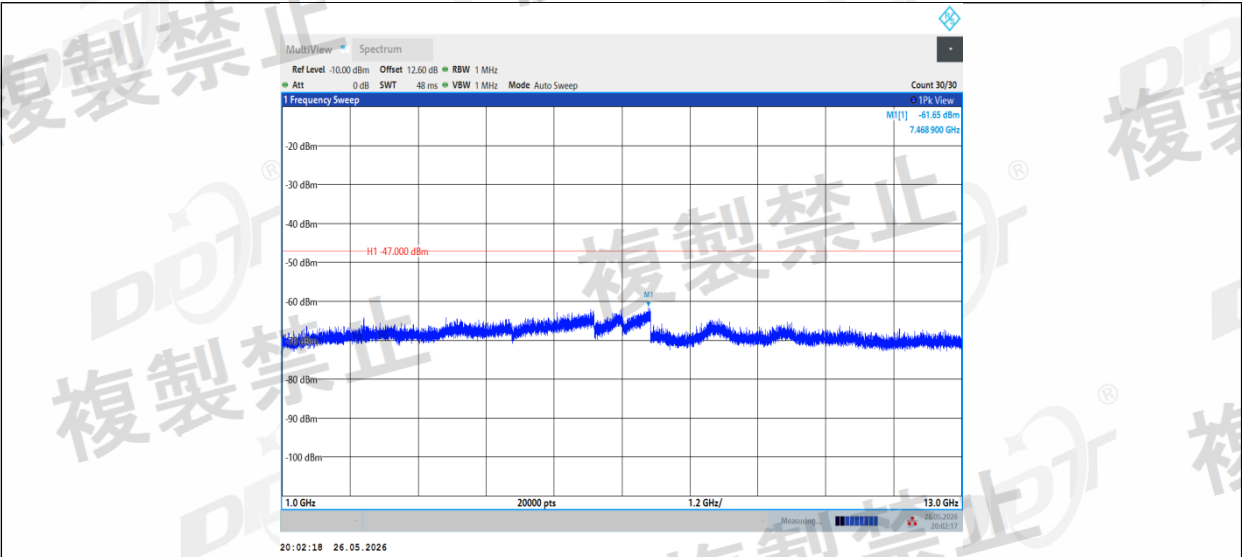
NTVN_BLE_2M_Ant1_2404_1000-13000



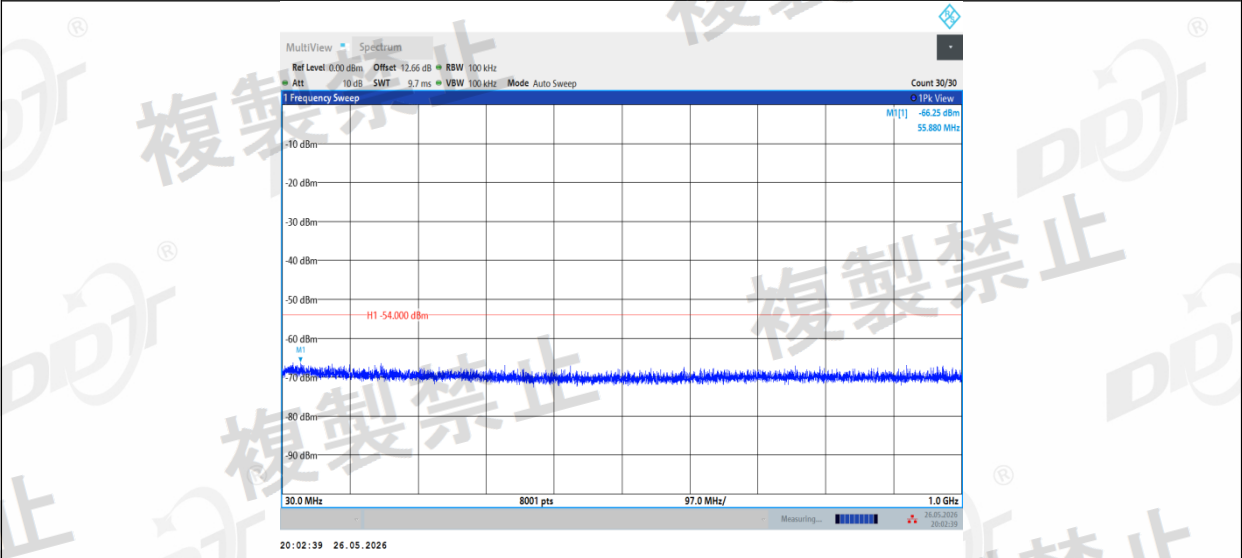
NTVN_BLE_2M_Ant1_2440_30-1000



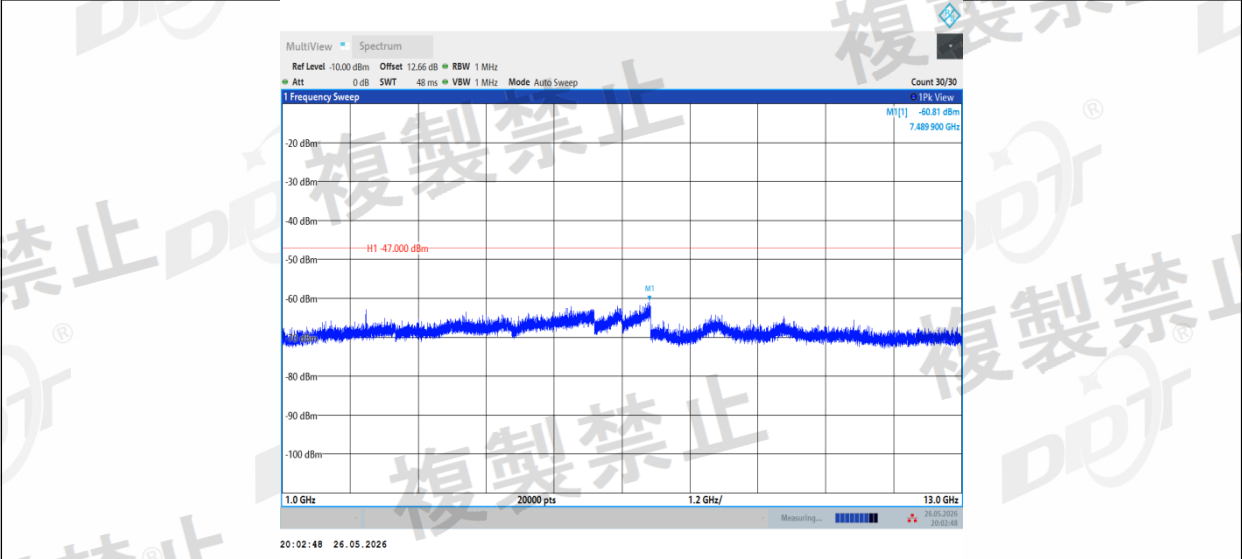
NTVN_BLE_2M_Ant1_2440_1000-13000



NTNV_BLE_2M_Ant1_2478_30~1000



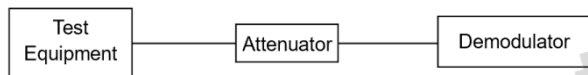
NTNV_BLE_2M_Ant1_2478_1000~13000



9. Interference Prevention Function

9.1. Measurement system diagram

- 1) When transmitting identification code



- 2) Condition of measuring instrument

Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.

- 3) Condition of test equipment the mode of normal use.

9.2. Measuring operation procedure

When test equipment has the function to transmit identification code automatically:

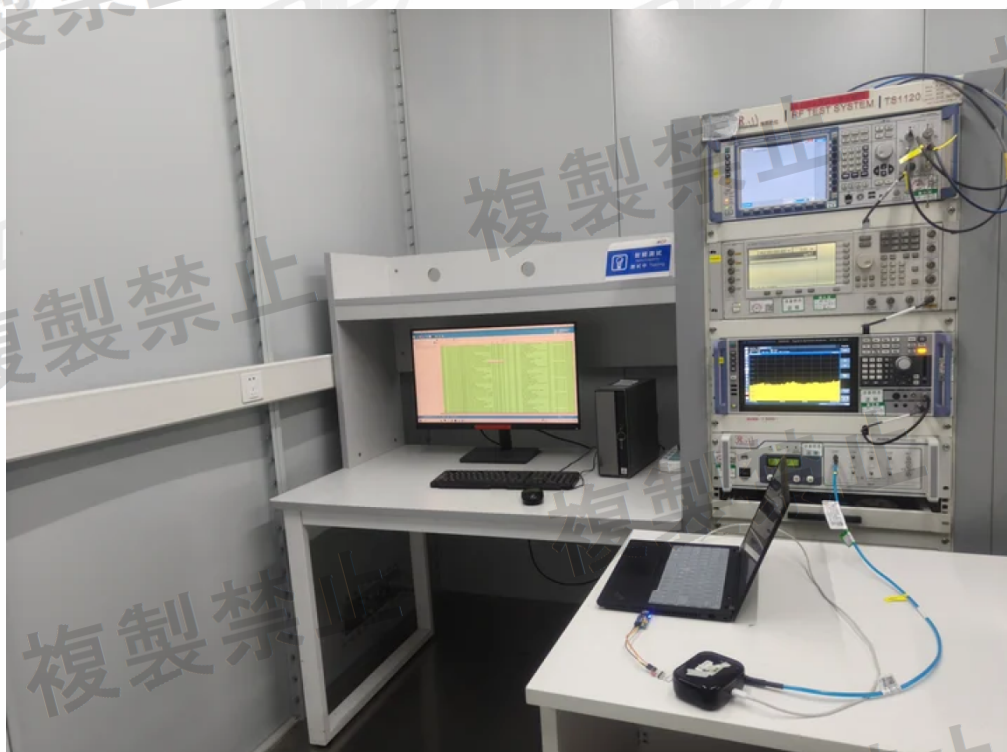
- A) Transmit the predetermined identification code from test equipment.
- B) Confirm the transmitted identification code by demodulator.

9.3. Test result: The unit does meet the requirements.

Pass

EUT Mac: 40:ED:98:1E:99:75

10. Test Setup Photograph



11. Photos of the EUT

Please refer to DDT-Q25103113-1E appendix I

-----End Report-----