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TEST REPORT

For Bluetooth-LE

Report No..... : CHTW26035175
Project No : SHT2602032402W
Applicant's name : Mirai Speaker Inc.
Address..... : 8F,2-22-1,Higashi-nihonbashi,Chuo-ku,Tokyo,103-0004,Japan
Product Name : Charging case
Trade Mark..... : -
Model No..... : MSE-MIRAI01-CC
Listed Model(s) : -
Standard : **Article 2 paragraph 1 item 19 (WW)**
Date of receipt of test sample..... : 2026/2/26
Date of testing..... : 2026/2/26- 2026/3/17
Date of issue..... : 2026/3/19
Result..... : **Pass**



CHT26035175

Compiled by
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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**
Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

Test Report Form No. : R0066
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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[Article 2 paragraph 1 item 19](#): Low power data communications system in the 2.4GHz band.

Test method: [MIC Notification 88, ANNEX 43](#)

1.2. Report version

Revision No.	Date of issue	Description
N/A	2026-03-19	Original

2. TEST DESCRIPTION

Report clause	Test Item	Result	Test Engineer
5.1	Frequency Error	PASS	Xiangyu Wei
5.2	Antenna Power	PASS	Xiangyu Wei
5.3	Occupied bandwidth(99%)	PASS	Xiangyu Wei
5.4	Spread spectrum bandwidth(90%)	PASS	Xiangyu Wei
5.5	Spurious Emissions Intensity	PASS	Xiangyu Wei
5.6	Limit of secondary radiated emissions	PASS	Xiangyu Wei
5.7	Radio Interference Prevention Capability Measurement	PASS	Xiangyu Wei

3. SUMMARY

3.1. Client Information

Applicant:	Mirai Speaker Inc.
Address:	8F,2-22-1,Higashi-nihonbashi,Chuo-ku,Tokyo,103-0004,Japan
Manufacturer:	Mirai Speaker Inc.
Address:	8F,2-22-1,Higashi-nihonbashi,Chuo-ku,Tokyo,103-0004,Japan

3.2. Product Description

Main unit information:	
Product Name:	Charging case
Trade Mark:	-
Model No.:	MSE-MIRAIS01-CC
Listed Model(s):	-
Power supply:	DC 3.7V from battery
Hardware version:	V01
Software version:	V0.2
Accessory unit information:	
Battery information:	3.7V 550mAh 2.035Wh

3.3. Radio Specification Description

Bluetooth version:	V5.0
Support function ^{*1} :	BLE
Frequency Range:	2402-2480MHz
Channel number:	40
Channel separation:	2MHz
Modulation type:	GFSK
Data Rate	1Mbps
Antenna Type:	Ceramic Antenna
Antenna Gain:	2.67dBi
RF Rated output power:	1.10mW

Note:

*1: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China
Contact information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn

4. TEST CONFIGURATION

4.1. Test Frequency

Test Channel	Channel No.	Frequency (MHz)
CH _L	00	2402
-	01	2404
-	⋮	⋮
CH _M	19	2440
-	⋮	⋮
-	38	2478
CH _H	39	2480

4.2. EUT operation mode

For RF test items
The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting and receiving mode for testing.

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.4. Modifications

No modifications were implemented to meet testing criteria.

4.5. Environmental conditions

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

Battery Voltage	Normal Voltage / N_V	DC 3.7V
	Low Voltage / L_V	DC 3.33V
	High Voltage / H_V	DC 4.07
Other	Normal Temperature / T_{nor} :	25°C
	Relative Humidity	55 %
	Air Pressure	989 hPa

The RF unit is supplied DC1.8V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage DC3.7V is fluctuated $\pm 10\%$. So all measurement has been conducted by only rated voltage.

DC Input	RF_IC Input	Rate of fluctuation(%)
3.70V	1.8V	0.0
3.33V	1.8V	0.0
4.07V	1.8V	0.0

4.6. Statement of the measurement uncertainty

Parameter	Uncertainty
Frequency Error	0.05ppm
Total RF power, conducted	1.07dB
Spurious emissions, conducted	1.68 dB
DC and low frequency voltages	3%
Humidity	5%
Temperature	1°C

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).

4.7. Equipments Used during the Test

● RF Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	RF Conducted	JS1120-3 RF Test Software	Tonscend	-	V3.6.21

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2025/8/19	2026/8/18
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2026/3/13	2027/3/12
●	OSP	R&S	HTWE0243	OSP120	101317	2025/8/19	2026/8/18
●	10dB Attenuator	R&S	HTWE0250-01	10dB Attenuator-1	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-02	10dB Attenuator-2	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-03	10dB Attenuator-3	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-04	10dB Attenuator-4	N/A	2025/8/22	2026/8/21
●	30dB Attenuator	R&S	HTWE0250-05	30dB Attenuator-5	N/A	2025/8/22	2026/8/21

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
○	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A
○	DC Power Supply	MESTEK	HTWE0705	DP6010	00230820197	N/A	N/A

The Calibration Bodies is confirm to the article 24-2, 4, 2(c) paragraph (1).

Calibration Body: CCIC(Shenzhen) Metrology&Testing Service Co.,Ltd.

(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).

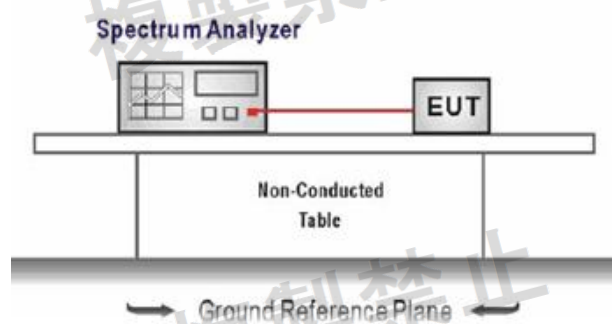
5. TEST CONDITIONS AND RESULTS

5.1. Frequency Error

LIMIT

$\pm 50\text{ppm}$

TEST CONFIGURATION



TEST CONDITION

Without modulation, continuously transmitting

SPECTRUM SET:

Test Frequency= test channel,
RBW=VBW=10KHz, Span=6MHz, Sweep time=Auto, Detector mode=Positive peak

TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to the appendix report on the section 8

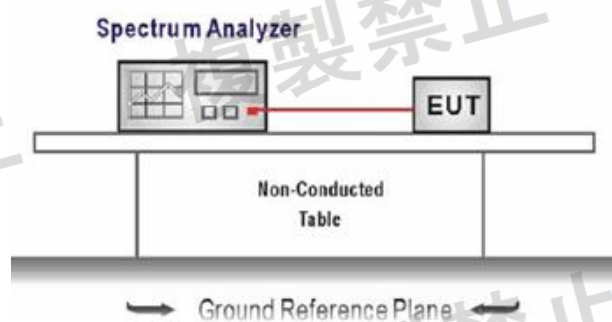
5.2. Antenna Power

LIMIT

No.	Moduation type	Limit
1	FH, FH+DS , FH+OFDM (2427 - 2470.75 MHz)	3mW/MHz
2	OFDM OBW<=26MHz DS, FH other than (1)	10mW/MHz
3	OFDM (OBW 26 – 40MHz)	5mW/MHz
4	Other than (1) & (2)&(3)	10mW

Tolerance: +20%

TEST CONFIGURATION



TEST CONDITION

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

- 1) Search Frequency of Peak Power
Test Frequency: test channel,
RBW=VBW=1MHz, Span=4MHz, Sweep time=Auto, Detector mode =Positive peak
- 2) Measure of average burst power
Test Frequency: frequency of peak power
RBW=VBW≥99% Occupy Bandwidth , Span=0Hz, Sweep time=Auto, Detector mode=RMS
Reading Level = burst power

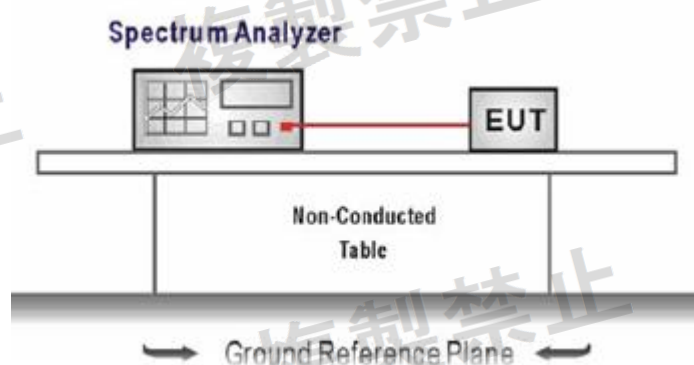
TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to the appendix report on the section 8

5.3. Occupy Bandwidth (99%)**LIMIT**

Modulation type	Limit
FH	83.5MHz or less
FH + DS	83.5MHz or less
FH + OFDM	83.5MHz or less
DSSS	26MHz or less (802.11b)
OFDM	26MHz or less (802.11g/n(HT20))
OFDM	40MHz or less (802.11n(HT40))
Others	26MHz or less

TEST CONFIGURATION**TEST CONDITION**

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

Test Frequency: test channel,

RBW=VBW=300KHz, Span=4MHz, Sweep time=Auto, Detector mode=Positive peak

TEST RESULTS

☒ Passed ☐ Not Applicable

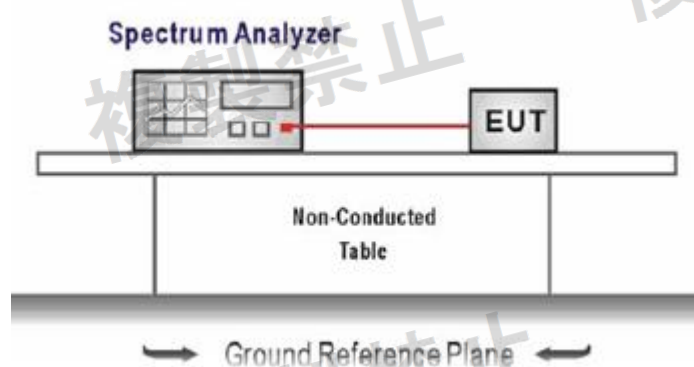
Refer to the appendix report on the section 8

5.4. Spread spectrum bandwidth (90%)

LIMIT

-

TEST CONFIGURATION



TEST CONDITION

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

Test Frequency: test channel,

RBW=VBW=300KHz, Span=4MHz, Sweep time=Auto, Detector mode=Positive peak

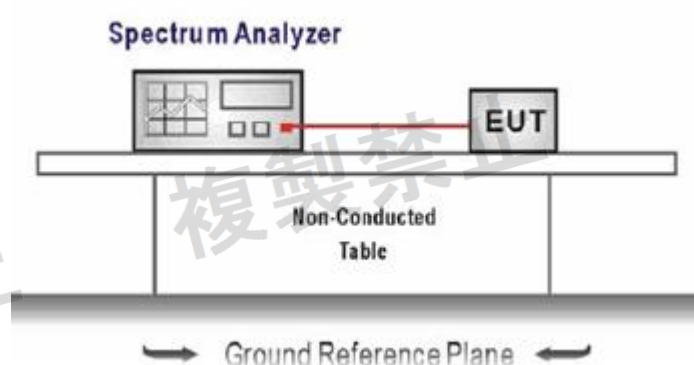
TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to the appendix report on the section 8

5.5. Spurious emission intensity**LIMIT**

Frequency Range	Limit
≤2387MHz	≤2.5μW (-26dBm)
2387MHz to 2400MHz	≤25μW (-16dBm)
2483.5MHz to 2496.5MHz	≤25μW (-16dBm)
≥2496.5MHz	≤2.5μW (-26dBm)

TEST CONFIGURATION**TEST CONDITION**

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

Test Frequency: test channel,
RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector mode=Positive peak

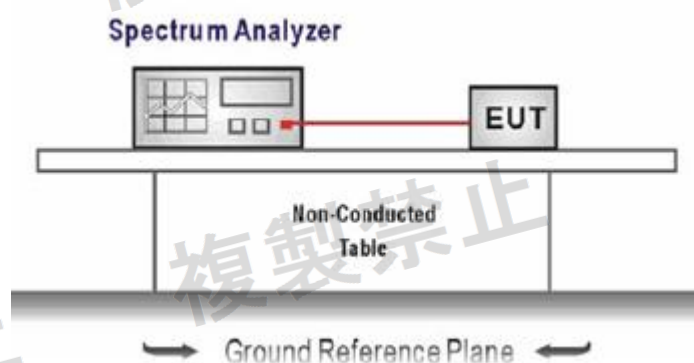
TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to the appendix report on the section 8

5.6. Limit of secondary radiated emissions**LIMIT**

Frequency Range	Limit
≤1GHz	≤4.0nW (-54dBm)
>1GHz	≤20nW (-47dBm)

TEST CONFIGURATION**TEST CONDITION**

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

Test Frequency: test channel,
 Below 1GHz, RBW=100KHz,VBW=300KHz;
 Above 1GHz, RBW=1MHz, VBW=3MHz,
 Sweep time=Auto, Detector mode=Positive peak

TEST RESULTS

☒ Passed ☐ Not Applicable

Refer to the appendix report on the section 8

5.7. Radio Interference Prevention Capability Measurement

LIMIT

Identification code: 48bits or more

Mac IP Lits: MAC Scan

TEST CONFIGURATION

Transmission of identification code



Reception of identification code



TEST CONDITION

- 1) The demodulator shall be able to demodulate the transmitting signal from the radio equipment and display contents of the identification code.
- 2) The opposite equipment shall be able to transmit the identification code as same as the transmitting signal from the radio equipment
- 3) Set it in the usual operation condition

TEST PROCEDURE

- 1) The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
- 2) The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.

TEST RESULTS

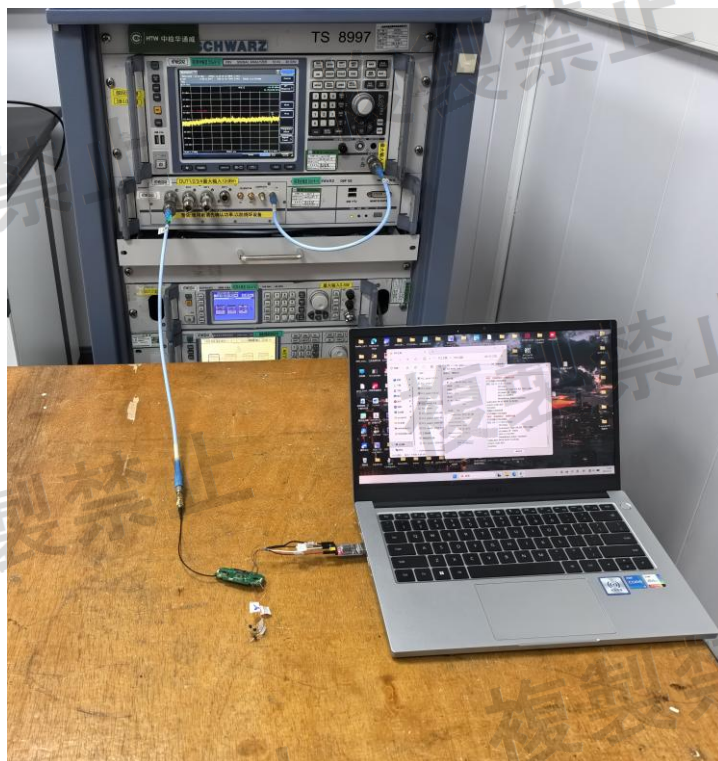
☒ Passed ☐ Not Applicable

Note: Radio interference prevention capability was conformed.

Bluetooth Device address: 47:A0:85:F2:C7:3E

47:A0:85:F2:C7:3E

6. TEST SETUP PHOTOS OF THE EUT



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

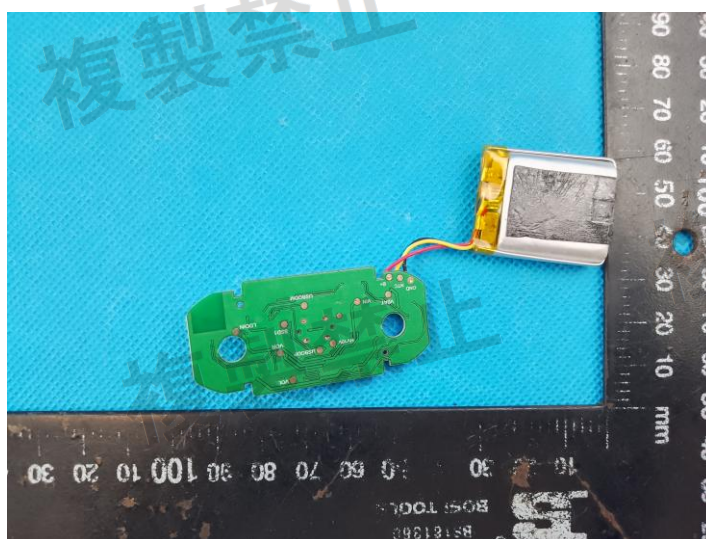
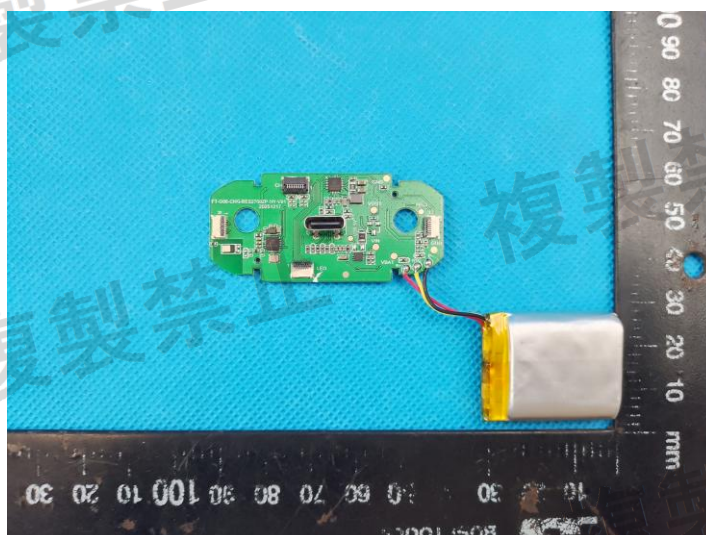
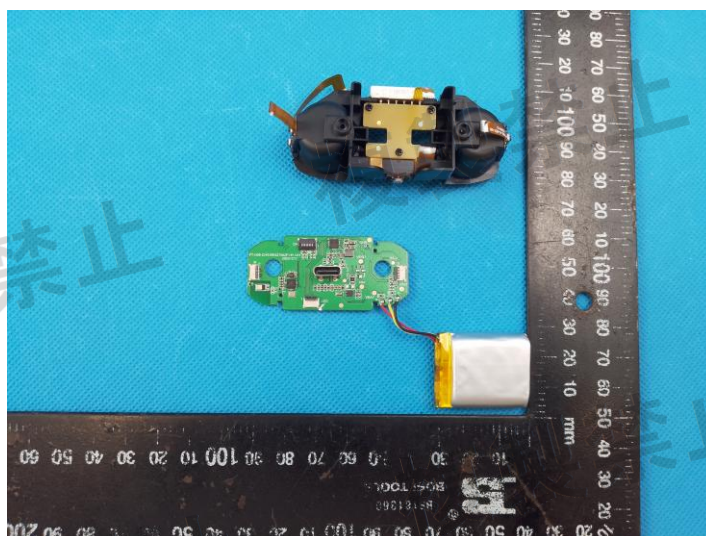
7.1. External Photos

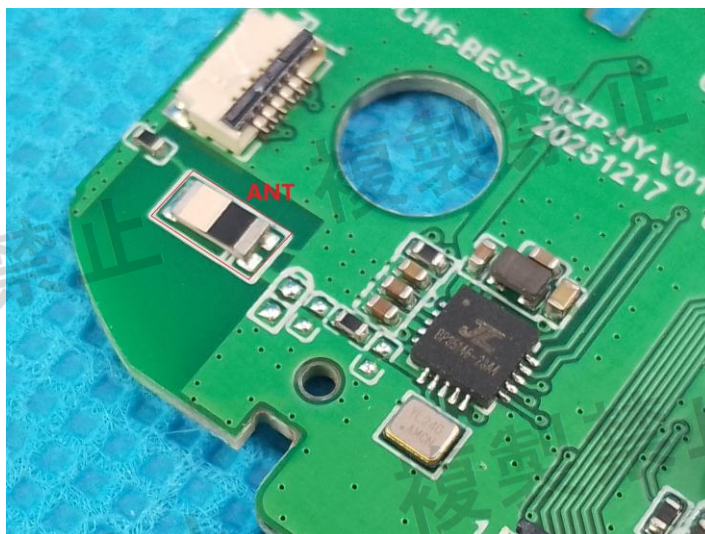




7.2. Internal Photos







8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2602032402W	Radio Specification	Bluetooth BLE
Test sample No.	YPHT26020324001	Model No.	MSE-MIRAI01-CC
Start test date	2026-03-13	Finish date	2026-03-16
Temperature	22.3℃	Humidity	51%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhuo

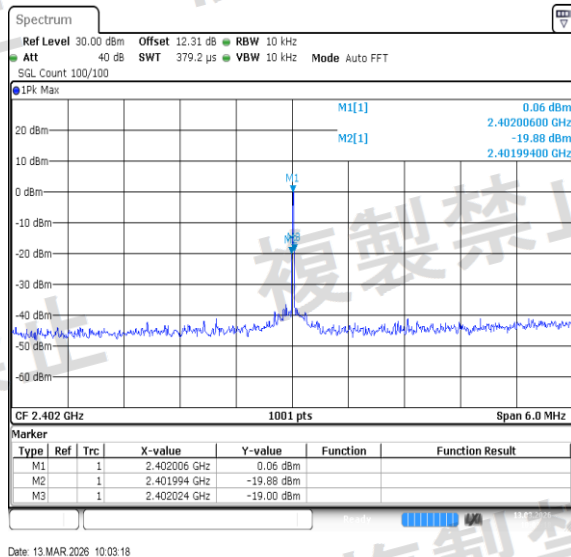
Appendix clause	Test item	Result
A	Frequency Error	PASS
B	Antenna Power and EIRP	PASS
C	Occupy Bandwidth (99%)	PASS
D	Spread spectrum bandwidth (90%)	PASS
E	Spurious emission intensity	PASS
F	Limit of secondary radiated emissions	PASS

Appendix A: Frequency Error

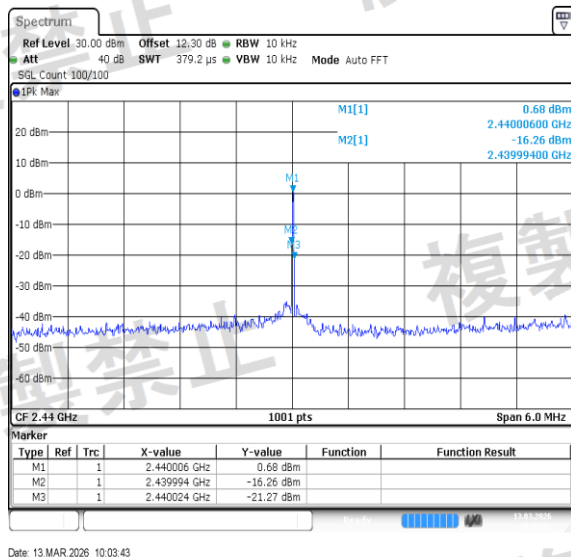
Test Result

TestCondition	TestMode	Freq(MHz)	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	2402	2402.009	3.74688	±50	PASS
NTNV	BLE_1M	2440	2440.009	3.68853	±50	PASS
NTNV	BLE_1M	2480	2480.009	3.62903	±50	PASS

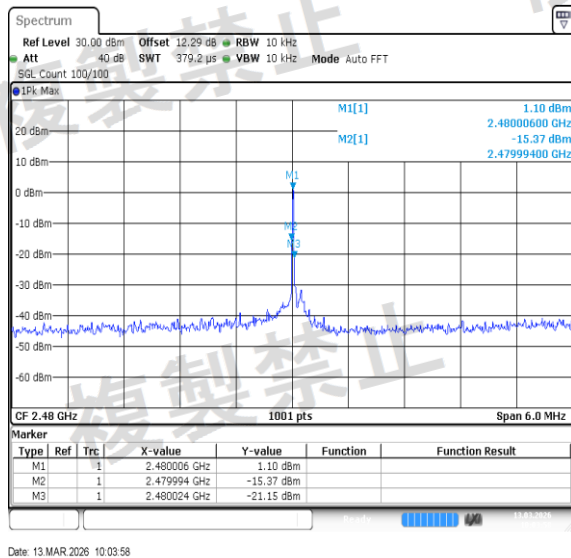
Test Graphs



NTNV-BLE_1M-2402-PASS



NTNV-BLE_1M-2440-PASS



NTNV-BLE_1M-2480-PASS

Appendix B: Antenna Power and EIRP

Test Result

TestCondition	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	Ant1	2402	-1.46	0.71	≤10	PASS
NTNV	Ant1	2440	-0.17	0.96	≤10	PASS
NTNV	Ant1	2480	0.23	1.05	≤10	PASS

Test Condition	Test Mode	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	2402	0.71	1.10	-35.05	+20	PASS
NTNV	BLE_1M	2440	0.96	1.10	-12.58	+20	PASS
NTNV	BLE_1M	2480	1.05	1.10	-4.15	+20	PASS

TestCondition	TestMode	Freq(MHz)	Result(dBm)	Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	BLE_1M	2402	-1.46	2.67	1.21	≤12.14	PASS
NTNV	BLE_1M	2440	-0.17	2.67	2.50	≤12.14	PASS
NTNV	BLE_1M	2480	0.23	2.67	2.90	≤12.14	PASS

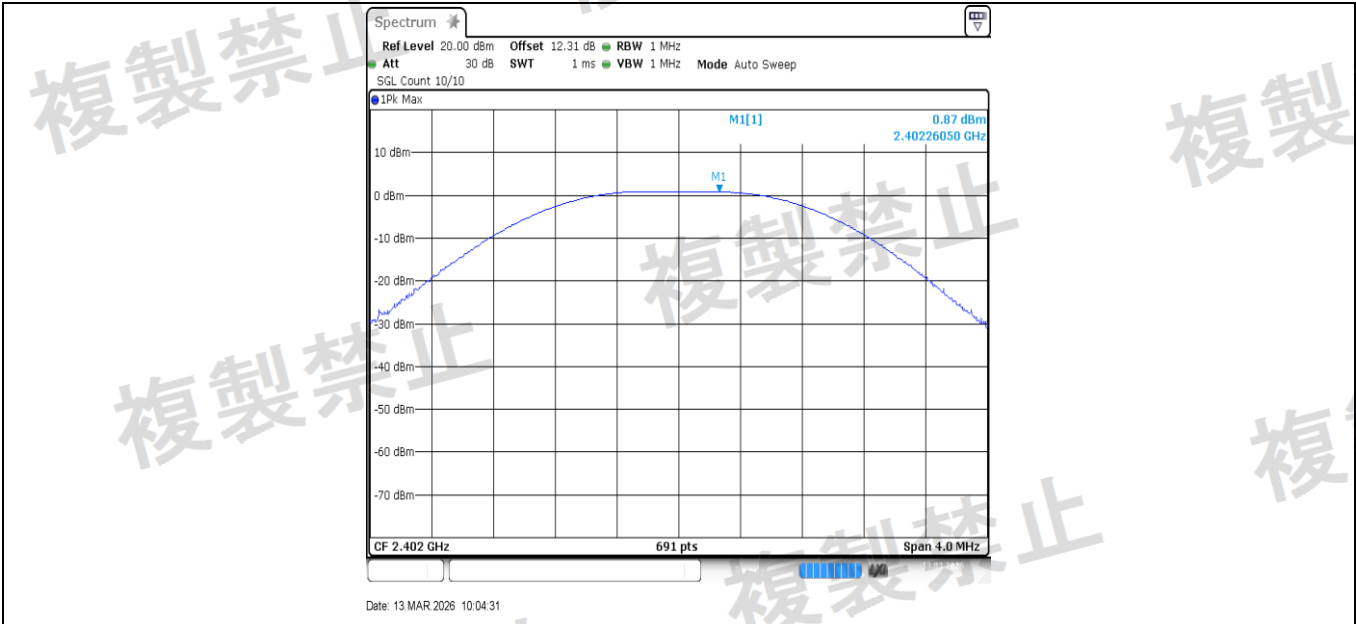
Note:

1) $\text{Result(mW)} = 10^{\left(\text{Result(dBm)} / 10 \right)}$

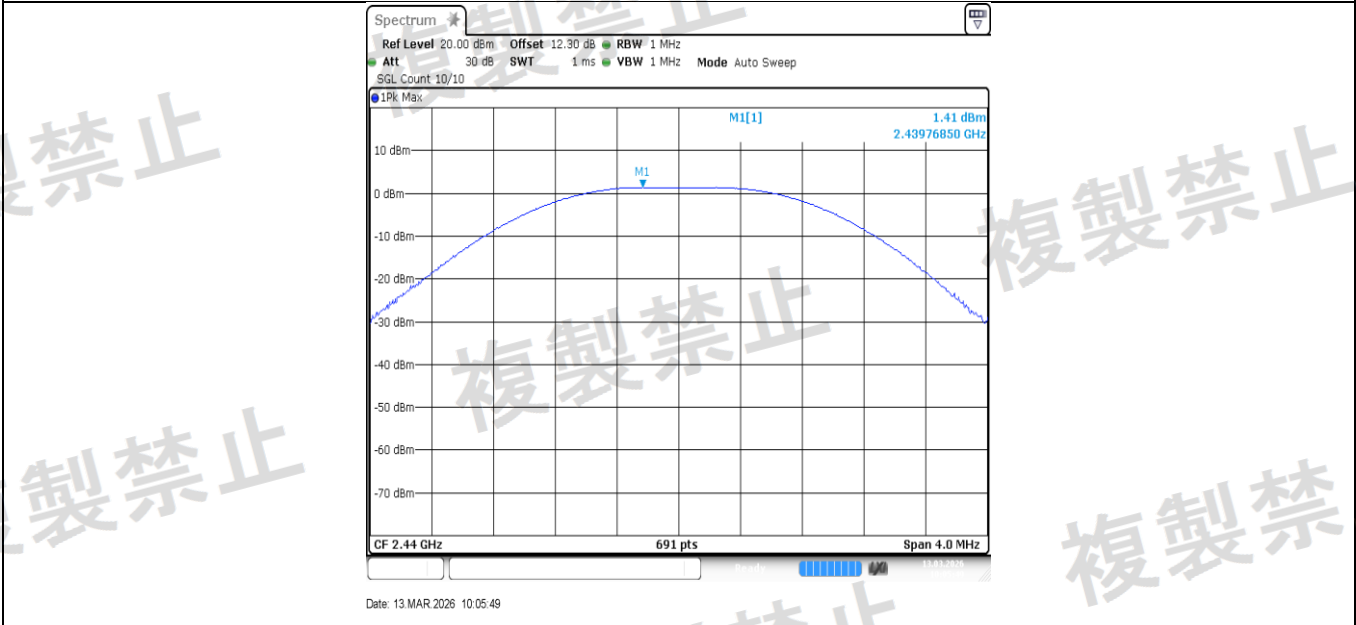
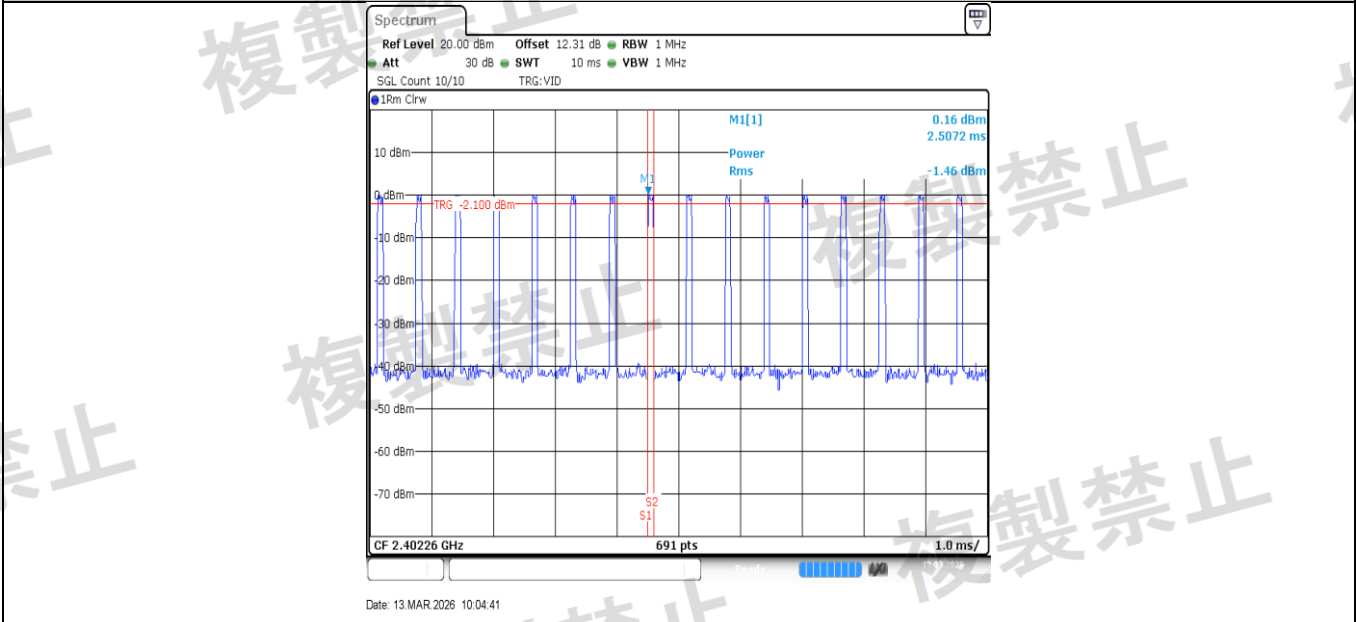
2) $\text{Tolerance} = (\text{Power(mW)} - \text{Rated power}) / \text{Rated power} * 100\%$

3) $\text{EIRP} = \text{Result(dBm)} + \text{antenna gain}$

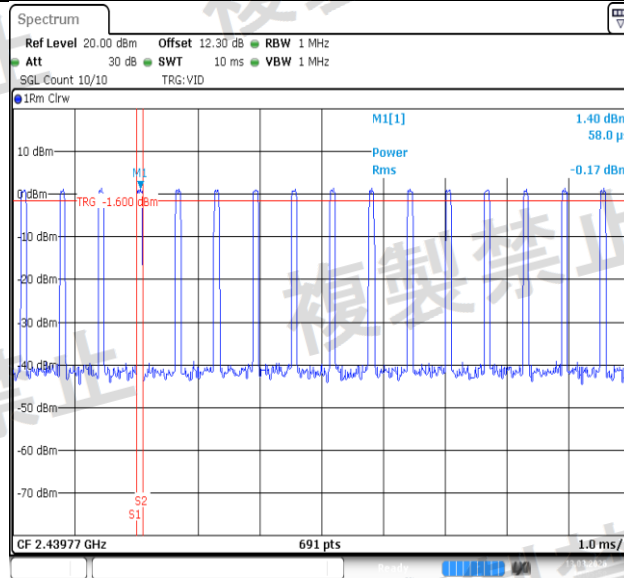
Test Graphs



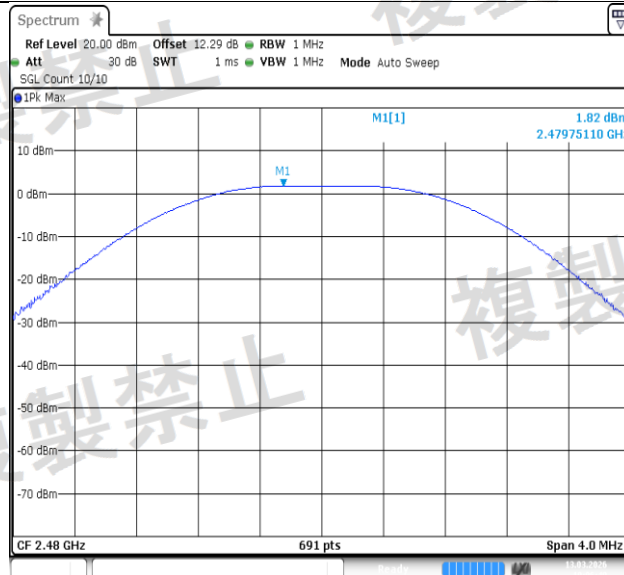
NTNV-BLE_1M-2402-PASS



NTNV-BLE_1M-2440-PASS

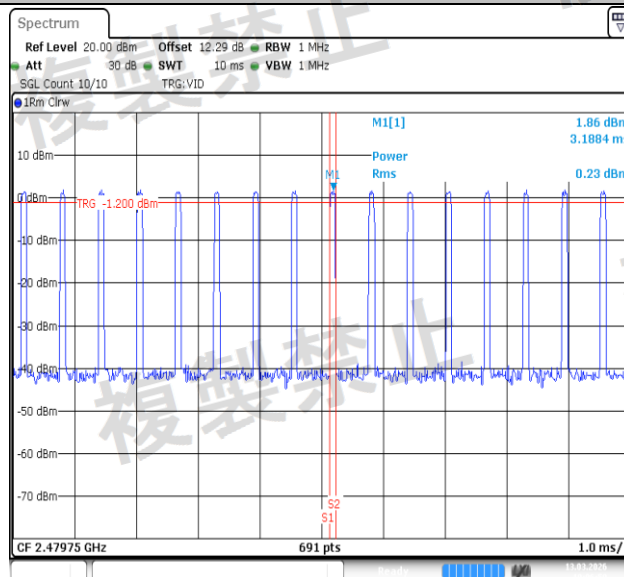


Date: 13.MAR.2026 10:05:58



Date: 13.MAR.2026 10:06:40

NTNV-BLE_1M-2480-PASS



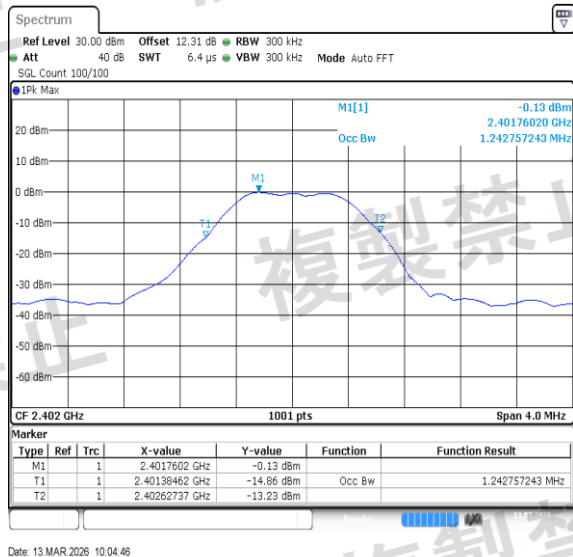
Date: 13.MAR.2026 10:06:50

Appendix C: Occupied Bandwidth (99%)

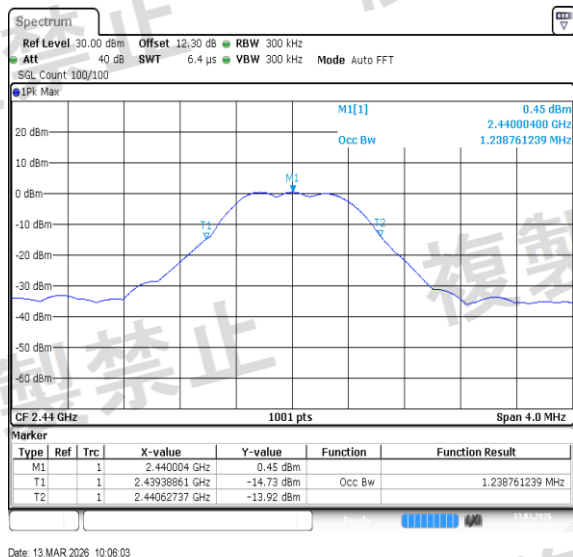
Test Result

TestCondition	TestMode	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	2402	1.243	≤26	PASS
NTNV	BLE_1M	2440	1.239	≤26	PASS
NTNV	BLE_1M	2480	1.263	≤26	PASS

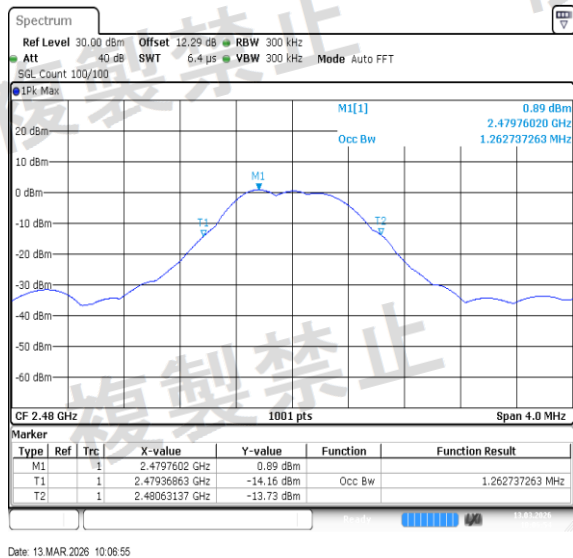
Test Graphs



NTNV-BLE_1M-2402-PASS



NTNV-BLE_1M-2440-PASS



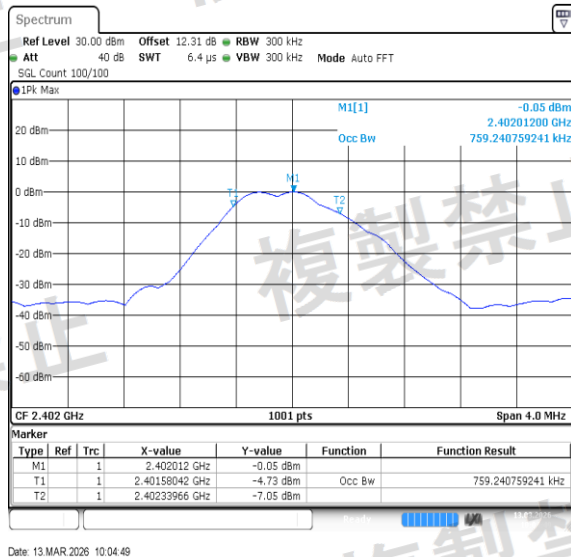
NTNV-BLE_1M-2480-PASS

Appendix D: Spread spectrum bandwidth (90%)

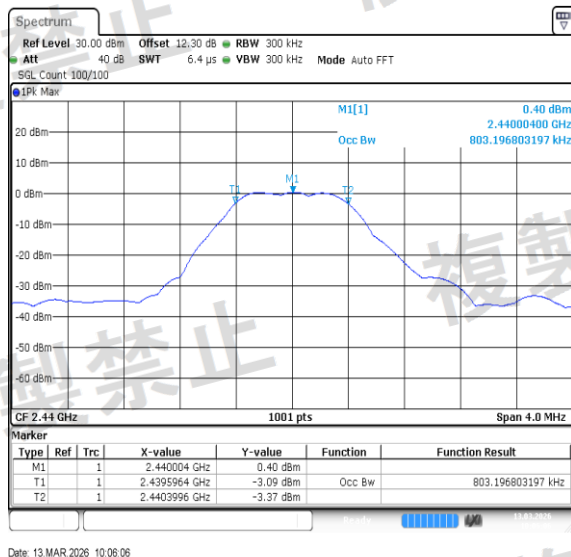
Test Result

TestCondition	TestMode	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	2402	0.759	≥0.5	PASS
NTNV	BLE_1M	2440	0.803	≥0.5	PASS
NTNV	BLE_1M	2480	0.827	≥0.5	PASS

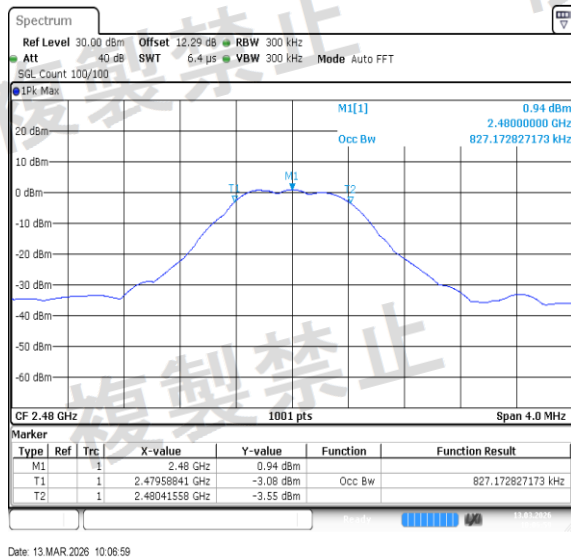
Test Graphs



NTNV-BLE_1M-2402-PASS



NTNV-BLE_1M-2440-PASS



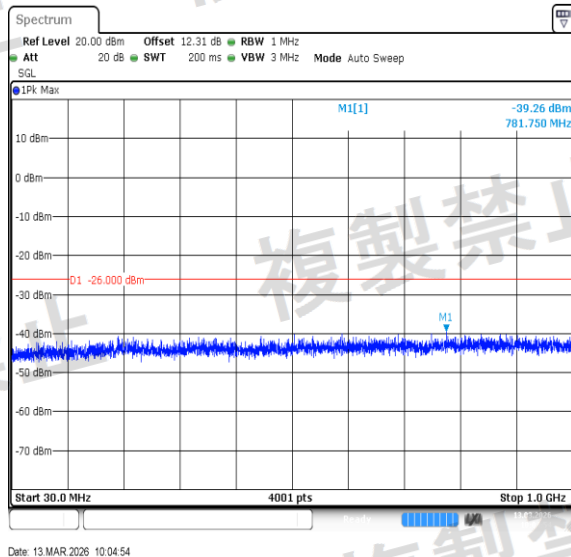
NTNV-BLE_1M-2480-PASS

Appendix E: Spurious emission intensity

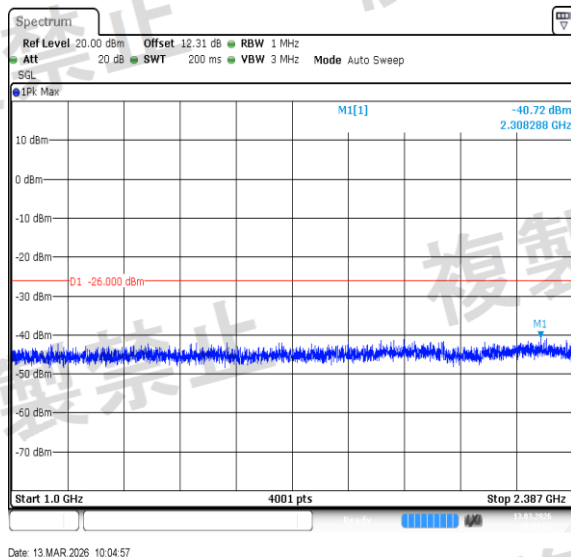
Test Result

TestCondition	TestMode	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	2402	30~1000	781.75	-39.26	≤-26	0.11858	≤2.5	PASS
NTNV	BLE_1M	2402	1000~2387	2308.29	-40.72	≤-26	0.08472	≤2.5	PASS
NTNV	BLE_1M	2402	2387~2400	2399.95	-28.19	≤-16	1.51705	≤25	PASS
NTNV	BLE_1M	2402	2483.5~2496.5	2487.55	-30.32	≤-16	0.92897	≤25	PASS
NTNV	BLE_1M	2402	2496.5~13000	11171.34	-35.15	≤-26	0.30549	≤2.5	PASS
NTNV	BLE_1M	2440	30~1000	892.57	-39.90	≤-26	0.10233	≤2.5	PASS
NTNV	BLE_1M	2440	1000~2387	2304.47	-39.74	≤-26	0.10617	≤2.5	PASS
NTNV	BLE_1M	2440	2387~2400	2398.62	-30.29	≤-16	0.93541	≤25	PASS
NTNV	BLE_1M	2440	2483.5~2496.5	2487.33	-30.30	≤-16	0.93325	≤25	PASS
NTNV	BLE_1M	2440	2496.5~13000	12534.69	-34.68	≤-26	0.34041	≤2.5	PASS
NTNV	BLE_1M	2480	30~1000	933.07	-39.67	≤-26	0.10789	≤2.5	PASS
NTNV	BLE_1M	2480	1000~2387	1376.92	-40.72	≤-26	0.08472	≤2.5	PASS
NTNV	BLE_1M	2480	2387~2400	2388.29	-30.54	≤-16	0.88308	≤25	PASS
NTNV	BLE_1M	2480	2483.5~2496.5	2490.83	-30.52	≤-16	0.88716	≤25	PASS
NTNV	BLE_1M	2480	2496.5~13000	6992.52	-34.45	≤-26	0.35892	≤2.5	PASS

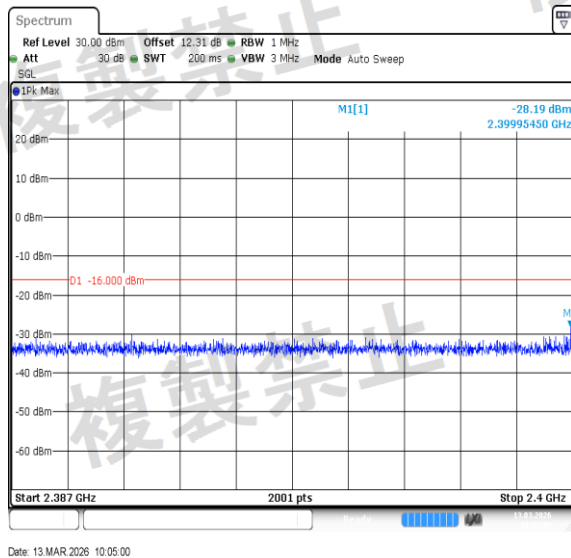
Test Graphs



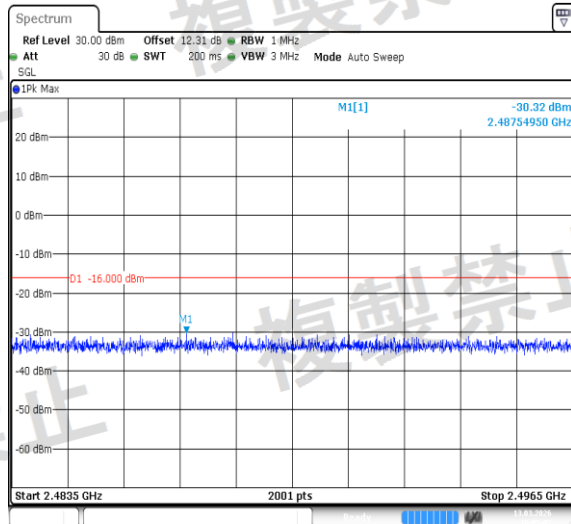
NTNV-BLE_1M-2402-30~1000-PASS



NTNV-BLE_1M-2402-1000~2387-PASS

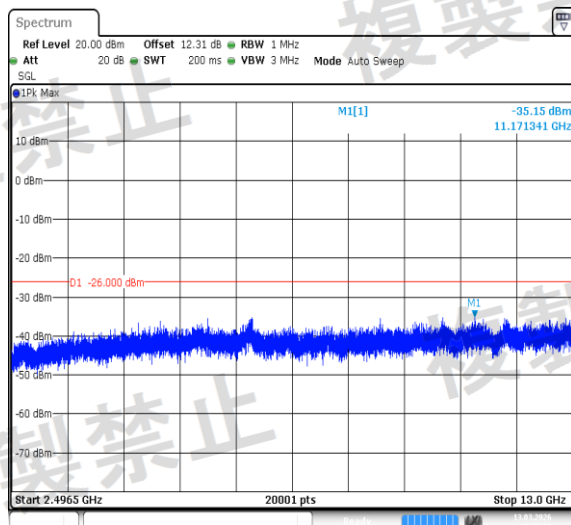


NTNV-BLE_1M-2402-2387~2400-PASS



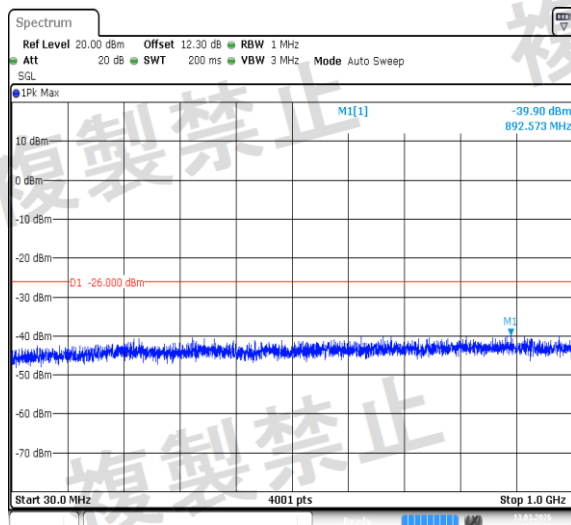
Date: 13 MAR 2026 10:05:02

NTNV-BLE_1M-2402-2483.5~2496.5-PASS



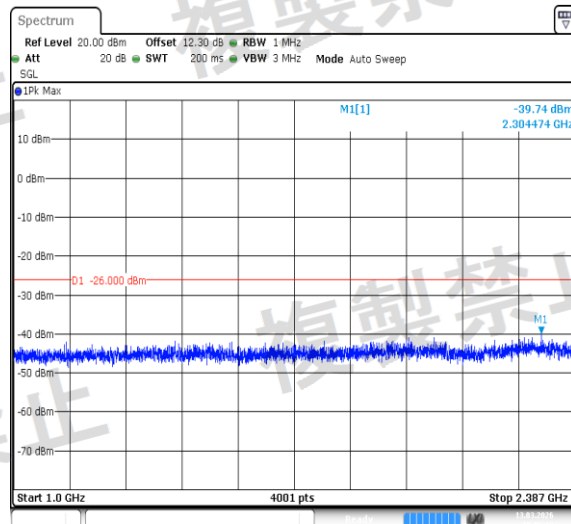
Date: 13 MAR 2026 10:05:05

NTNV-BLE_1M-2402-2496.5~13000-PASS



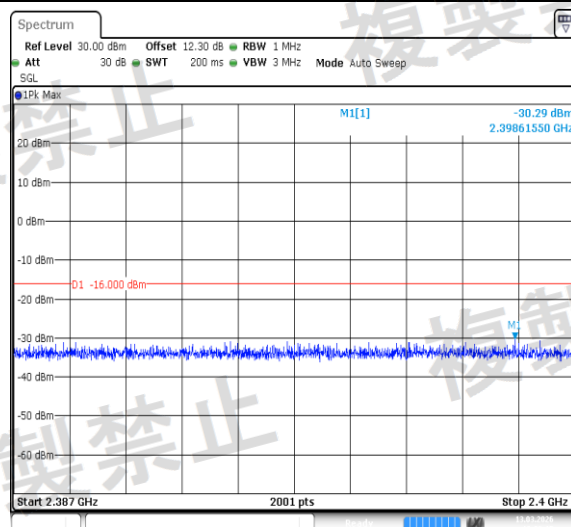
Date: 13 MAR 2026 10:06:10

NTNV-BLE_1M-2440-30~1000-PASS



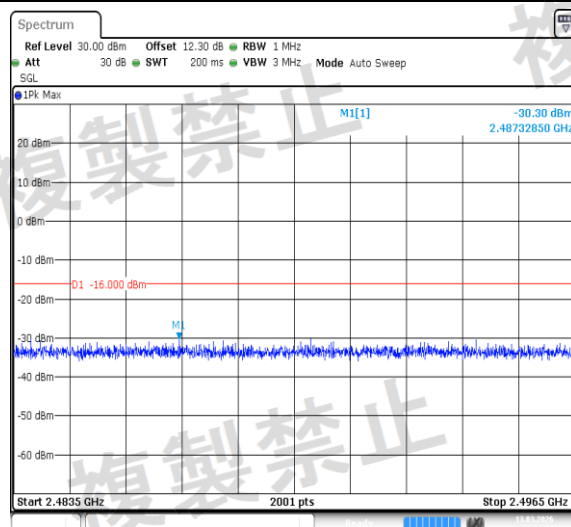
Date: 13 MAR 2026 10:06:13

NTNV-BLE_1M-2440-1000~2387-PASS



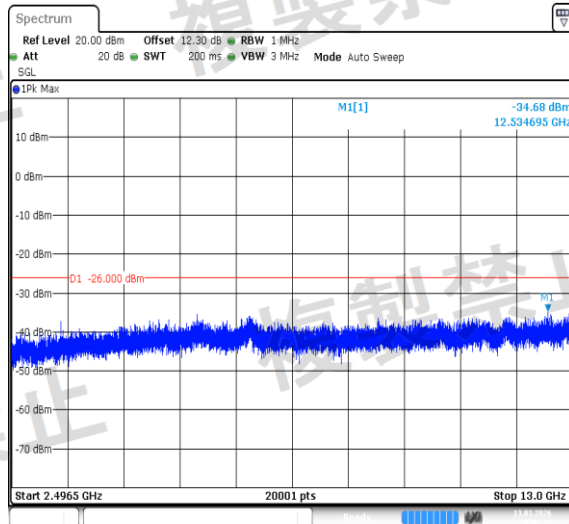
Date: 13 MAR 2026 10:06:16

NTNV-BLE_1M-2440-2387~2400-PASS



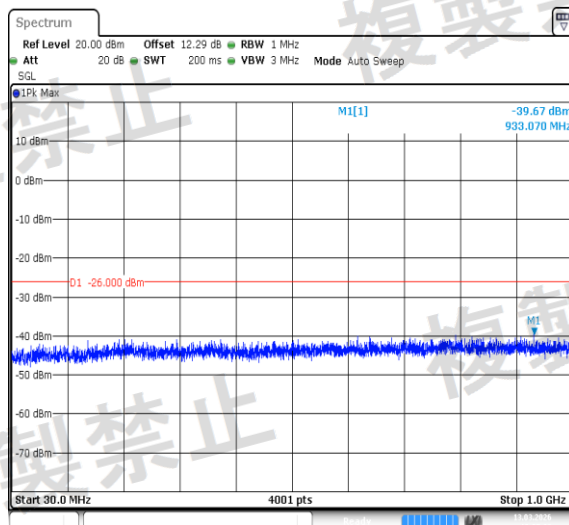
Date: 13 MAR 2026 10:06:18

NTNV-BLE_1M-2440-2483.5~2496.5-PASS



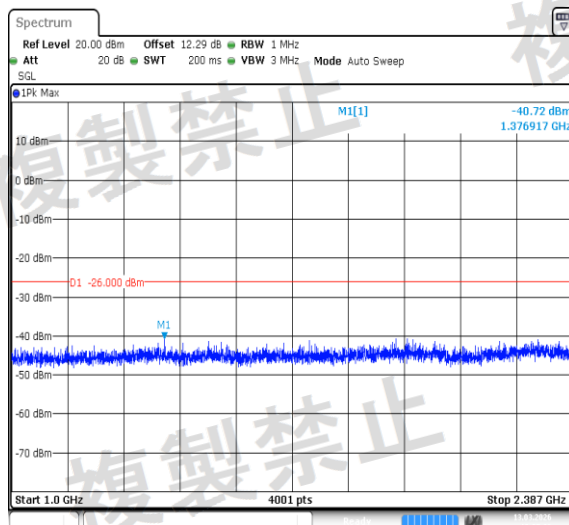
Date: 13 MAR 2026 10:06:21

NTNV-BLE_1M-2440-2496.5~13000-PASS



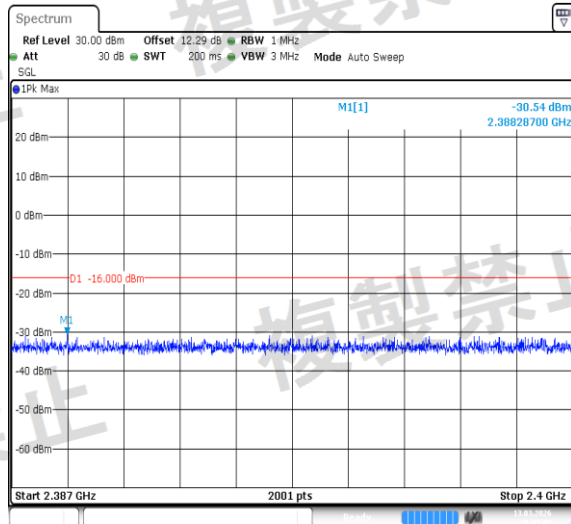
Date: 13 MAR 2026 10:07:03

NTNV-BLE_1M-2480-30~1000-PASS



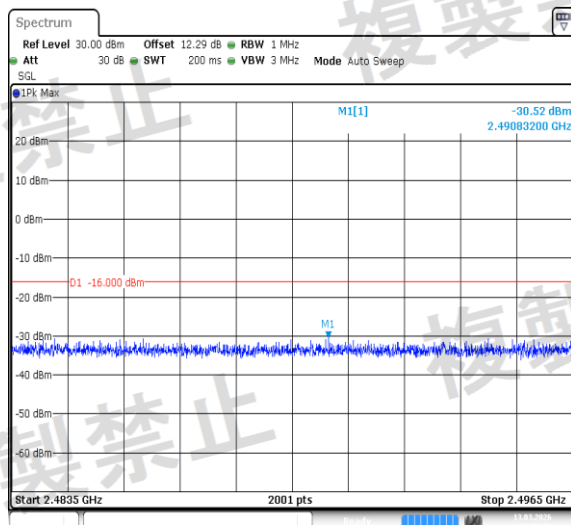
Date: 13 MAR 2026 10:07:06

NTNV-BLE_1M-2480-1000~2387-PASS



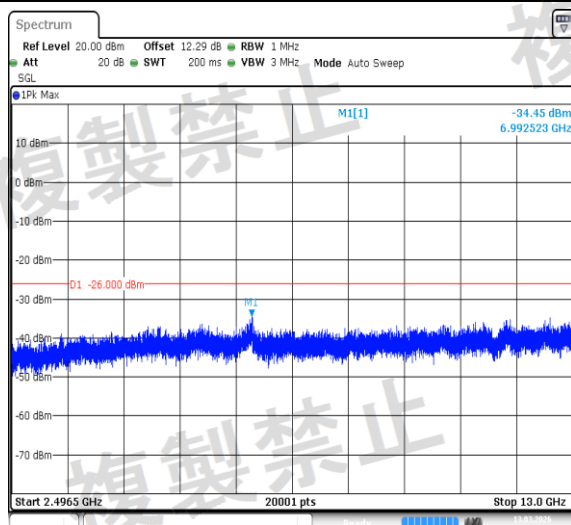
Date: 13 MAR 2026 10:07:08

NTNV-BLE_1M-2480-2387~2400-PASS



Date: 13 MAR 2026 10:07:11

NTNV-BLE_1M-2480-2483.5~2496.5-PASS



Date: 13 MAR 2026 10:07:14

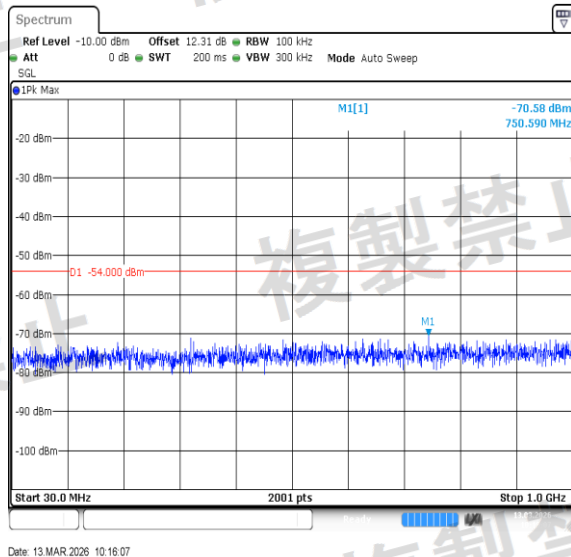
NTNV-BLE_1M-2480-2496.5~13000-PASS

Appendix F: Limit of secondary radiated emissions

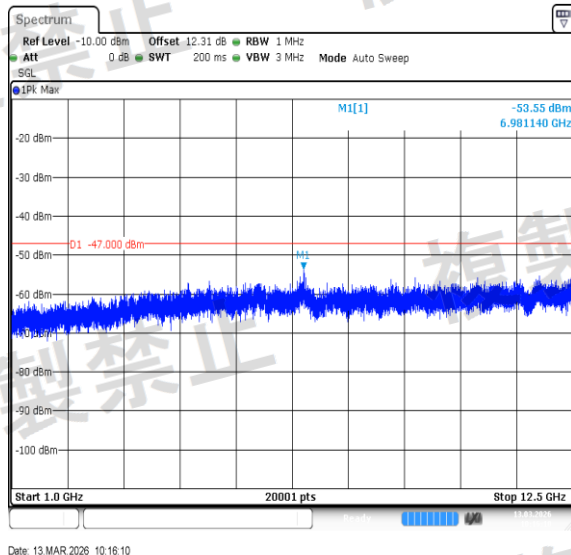
Test Result

TestCondition	TestMode	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	2402	30~1000	750.59	-70.58	≤-54	0.08750	≤4	PASS
NTNV	BLE_1M	2402	1000~12500	6981.14	-53.55	≤-47	4.41570	≤20	PASS
NTNV	BLE_1M	2440	30~1000	683.21	-70.62	≤-54	0.08670	≤4	PASS
NTNV	BLE_1M	2440	1000~12500	6994.36	-54.54	≤-47	3.51560	≤20	PASS
NTNV	BLE_1M	2480	30~1000	884.87	-70.56	≤-54	0.08790	≤4	PASS
NTNV	BLE_1M	2480	1000~12500	11701.65	-54.59	≤-47	3.47536	≤20	PASS

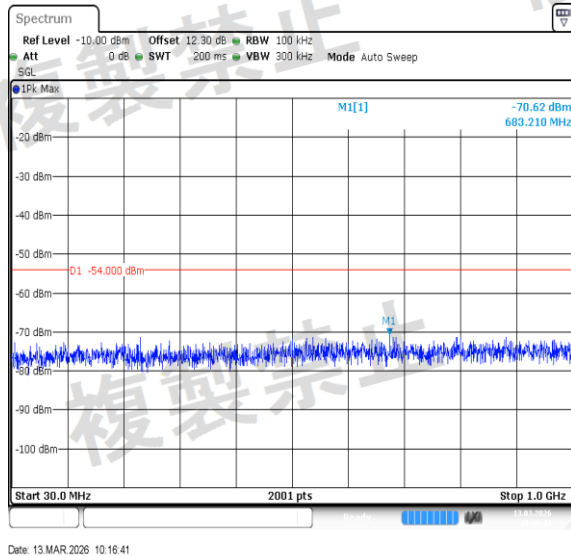
Test Graphs



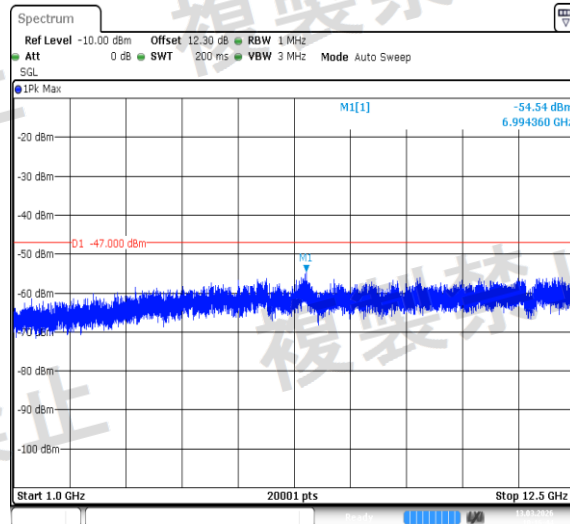
NTNV-BLE_1M-2402-30~1000-PASS



NTNV-BLE_1M-2402-1000~12500-PASS

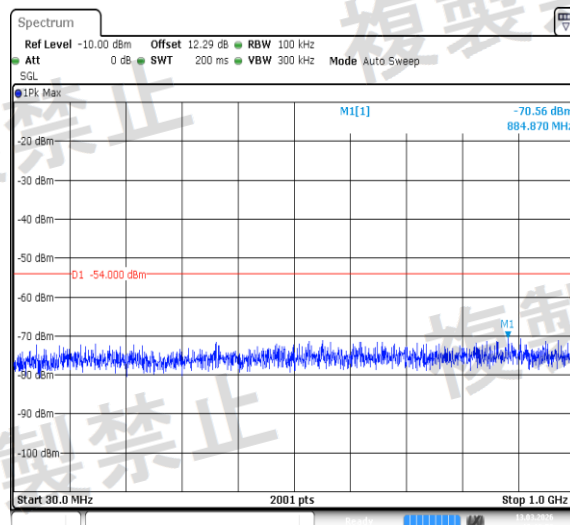


NTNV-BLE_1M-2440-30~1000-PASS



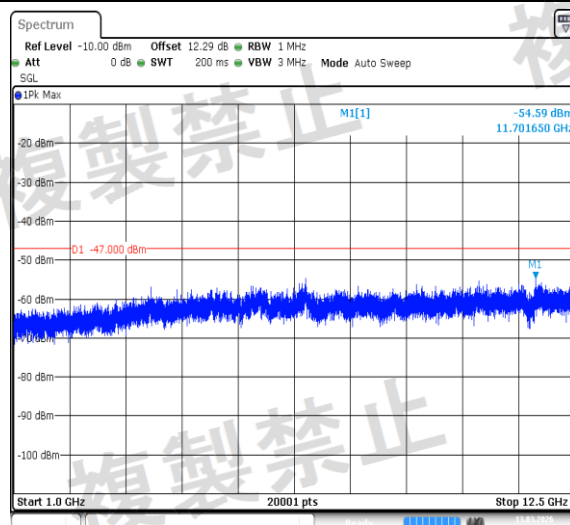
Date: 13 MAR 2026 10:16:44

NTNV-BLE_1M-2440-1000~12500-PASS



Date: 13 MAR 2026 10:16:50

NTNV-BLE_1M-2480-30~1000-PASS



Date: 13 MAR 2026 10:16:53

NTNV-BLE_1M-2480-1000~12500-PASS

-----End of Report-----