Test Report

Report No.	:	MTi260427024-0116E2
Date of issue	:	2026-05-25
Applicant	:	ShenZhen Cannice Technology Co.,Ltd.
Product	:	OTC Intelligent Hearing Aids
Model(s)	:	Liberte

Issued by:

Shenzhen Microtest Co., Ltd.

TEST REPORT

Report No.: MTi260427024-0116E2

Table of contents

1 General Description 4

1.1 Description of the EUT 4
1.2 Description of test modes 4
1.3 Environmental Conditions 6
1.4 Description of support units 6
1.5 Measurement uncertainty 6

2 Summary of Test Result 7
3 Test Facilities and accreditations 8

3.1 Test laboratory 8

4 List of test equipment 9
5 Evaluation Results (Evaluation) 10

5.1 Interference Prevention Function 10

6 Radio Spectrum Matter Test Results (RF) 11

6.1 Tolerance of Frequency 11
6.2 Occupied Bandwidth (99%) 12
6.3 Antenna Power and Tolerance 14
6.4 Spurious Emission Intensity 15
6.5 Secondary Radiated Emissions 18

Photographs of the test setup 20
Photographs of the EUT 21
Appendix A: Deviation of frequency 23
Appendix B: Deviation of antenna power 26
Appendix C: Occupied Bandwidth 27
Appendix D: Spurious Emission of TX 31
Appendix E: Spurious Emission of RX 47

TEST REPORT

Report No.: MTi260427024-0116E2

Test Result Certification	
Applicant	ShenZhen Cannice Technology Co.,Ltd.
Applicant Address	20/F,Tower A,Building 7,Baoneng Science and Technology Park,Qingxiang Road #1,Longhua New District,Shenzhen, China
Manufacturer	ShenZhen Cannice Technology Co.,Ltd.
Manufacturer Address	20/F,Tower A,Building 7,Baoneng Science and Technology Park,Qingxiang Road #1,Longhua New District,Shenzhen, China
Factory	Guangxi Cannice Precision Technology Co.Ltd.
Factory Address	Block C,South of Longtuan West Road Zhongshan Town,Zhongshan County Hezhou Guangxi 542600 China
Product description	
Product name	OTC Intelligent Hearing Aids
Trademark	N/A
Model name	Liberte
Series Model(s)	N/A
Standards	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43
Testing Information	
Date of test	2026-05-13 to 2026-05-21
Test result	Pass

Prepared by:	James Qin	James Qin
Reviewed by:	David Lee	David. Lee
Approved by:	Lewis Lian	Lewis Lian

1 General Description

1.1 Description of the EUT

Product name:	OTC Intelligent Hearing Aids
Model name:	Liberte
Series Model(s):	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V/ 1A Output: DC 5V/ 200mA*2 OTC Intelligent Hearing Aids Battery Capacity: DC 3.85V, 90mAh, 0.347Wh Charging Case Battery Capacity: DC 3.87V, 590mAh, 2.28Wh
Accessories:	Cable: USB-A to USB-C cable: 50cm
Hardware version:	V0A
Software version:	V0E
Test sample(s) number:	MTi260427024-01-R001
RF specification	
Bluetooth version:	V5.4
Operating frequency range:	2402MHz - 2480MHz
Channel number:	40
Modulation type:	GFSK
Antenna(s) type:	FPC
Antenna(s) gain:	Left earphone: -2.9dBi, Right earphone: -3.2dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK-1Mbps
Mode2	TX-GFSK-2Mbps
Mode3	unmodulated carrier
Mode4	RX

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466

3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Test Channel List
Operation Band: 1

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2	2402	2440	2480

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: Bluetooth RF Test Tool (RtlBluetoothMP.dll Version :5.3.3.5 RTLBTAPP Version :5.2.3.60)
For power setting, refer to below table.

Mode	2402MHz	2440MHz	2480MHz
1M	49	49	49
2M	49	49	49

1.3 Environmental Conditions

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

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

Test Conditions		Power Supply (V)	Input Voltage to the circuit of RF unit (V)
NTNV (V_{normal})	/	3.85	3.33
NTHV ($V_{max.}$)	+10%	4.235	3.33
NTLV ($V_{min.}$)	-10%	3.465	3.33

Note: If the fluctuation of input voltage to the circuit of RF unit (except power supply) of test equipment is under ±1%, when input voltage from external power supply to the test equipment is fluctuated by ±10%: conduct the test with the rated voltage only

1.4 Description of support units

Support equipment list			
Description	Model	Serial No.	Manufacturer
Laptop	e485	/	Lenovo
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Parameter	Measurement uncertainty
Frequency tolerance	±10 ppm
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Power Spectral Density, conducted	±1 dB
Unwanted Emissions, conducted	±1 dB
All emissions, radiated	±4.7 dB
Temperature	±1 °C
Supply voltages	±1 %
Time	±1 %

Note: the measurement uncertainty is calculated and correspond to a factor k-=2 (which provide confidence levels of.95.45%)

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Tolerance of Frequency	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
2	Occupied Bandwidth (99%)	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
3	Antenna Power and Tolerance	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
4	Spurious Emission Intensity	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
5	Secondary Radiated Emissions	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
6	Carrier Sensing 1	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	N/A
7	Interference Prevention Function	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
8	Transmission Antenna Absolute Gain	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	Pass
9	Half Powe Beam Angie(Radiation angle of antenna)	Article 2-1, Item 19-MIC Notice No. 88 Appendix No. 43	Article 2-1, Item 19	N/A

Notes:

N/A means not applicable

Carrier Sensing 1: Application to transmitting devices which EIRP is less than [2.14dBi + antenna power limit] and the shortage of EIRP is compensated by the antenna power. Not applicable to this product.

Transmitter antenna beam width: this requirement does not applicable to the EUT when its EIRP is under 12.14dBm.

The left and right earbuds adopt the same PCB layout. Only the conducted RF measurement data of the right earbud is recorded in this report.

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due	Calibration method
Tolerance of Frequency Occupied Bandwidth (99%) Antenna Power and Tolerance Spurious Emission Intensity Secondary Radiated Emissions							
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2026-03-09	2027-03-08	C
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2026-03-09	2027-03-08	C
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09	C
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2026-03-10	2027-03-09	C
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2026-03-09	2027-03-08	C
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2026-03-11	2027-03-10	C
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2026-03-11	2027-03-10	C
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2026-03-10	2027-03-09	C
9	DC Power Supply	Agilent	E3632A	MY40027695	2026-03-09	2027-03-08	C
10	RF Test System	Tonscend	JS1120-3 Test System	V3.6.21	/	/	C

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)

From JRL Article 24-2, paragraph 4, Item 2

5 Evaluation Results (Evaluation)

5.1 Interference Prevention Function

Test Requirement:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Test Method:	Notification No.88 of MIC, 2004
Procedure:	(1) For EUTs capable of automatically transmitting identification data a. Transmit identification data from EUT to Demodulator b. Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data a. Transmit identification data from Link Partner to EUT b. Confirm communication link is established c. Link Partner shall respond by transmitting different identification data back to the EUT d. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

5.1.1 Conclusion:

The detected ID of the device is below: 2C:DE:DF:57:A0:43 Test result: The device meet the requirements PASS

6 Radio Spectrum Matter Test Results (RF)

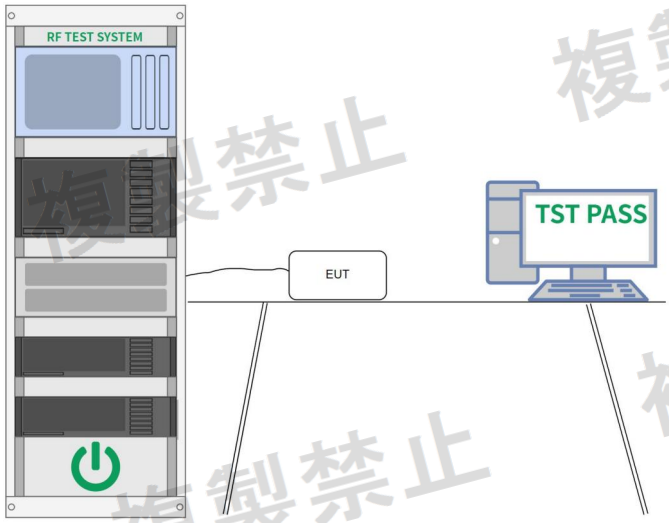
6.1 Tolerance of Frequency

Test Requirement:	Article 2-1, Item 19
Test Limit:	±50ppm or less.
Test Method:	Notification No.88 of MIC, 2004
Procedure:	Center frequency: Test frequency Span: 2 times channel bandwidth RBW: 100 kHz (Modulation ON) VBW: 100 kHz (Modulation ON) Sweep data points: 1001 or greater Sweep time: Auto Detector mode: Positive peak Indication mode: Max hold (1) Find the peak carrier signal and measure its frequency (2) For multiple antenna systems each antenna shall be measured (3) For an EUT with multiple antennas it is permissible to test a single antenna only, provided all the antenna measurement values are expected to be same for either of the following reasons: a) The frequency of all antenna transmissions are phase-synchronized to a common (fundamental) oscillator b) The antenna transmissions share a common clock signal

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode3				
Final test mode:	Mode3				

6.1.2 Test Setup Diagram:



6.1.3 Test Data:

Please Refer to Appendix for Details.

6.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19
Test Limit:	For DSSS or other modulation: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 26 MHz or less
Test Method:	Notification No.88 of MIC, 2004
Procedure:	

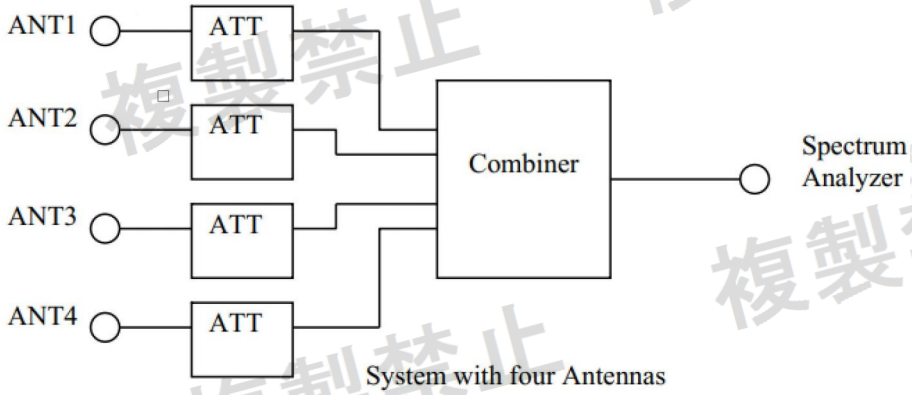
Center Frequency:	Test frequency
Span:	2 - 3.5 times the technical standard
RBW:	Within 3% of the technical standard
VBW:	Same as RBW
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold
BW setting:	99%

(1) Measure the signal bandwidth using a spectrum analyzer

(2) For multiple antenna systems:

a) Each antenna shall be individually measured

b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:

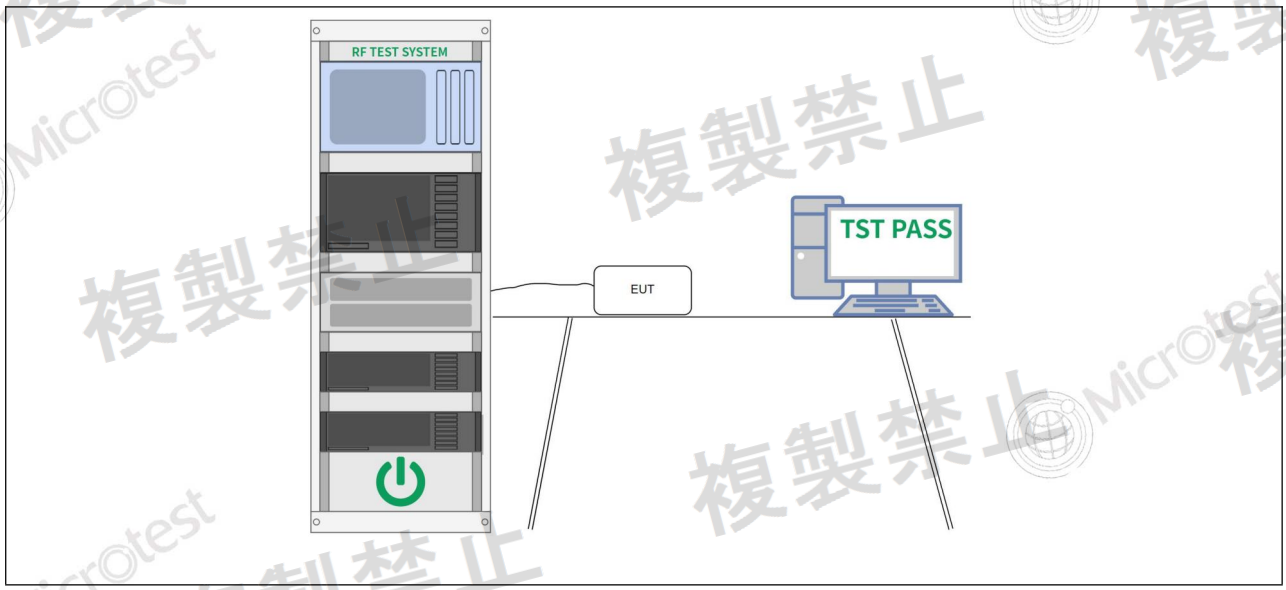


System with four Antennas

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

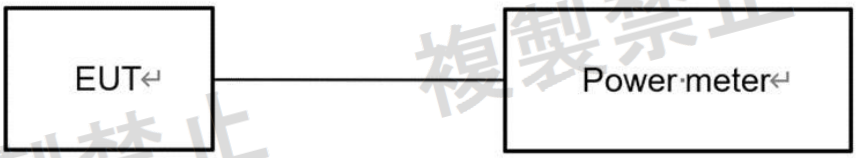
6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

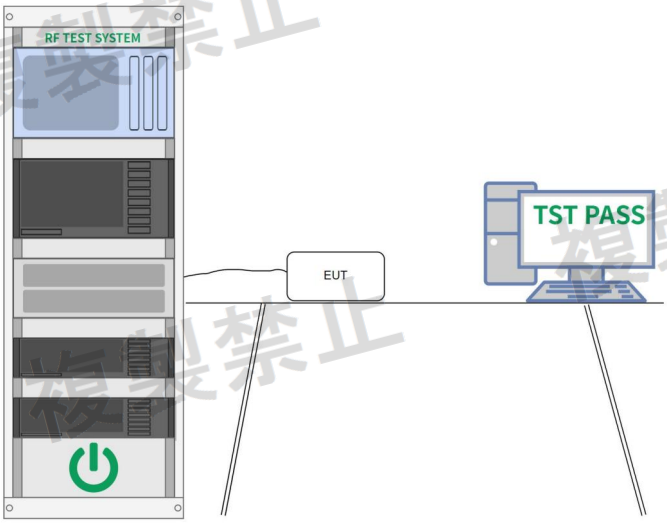
6.3 Antenna Power and Tolerance

Test Requirement:	Article 2-1, Item 19
Test Limit:	Antenna Power: 10 mW or less Tolerance: +20% or less EIRP: 12.14dBm
Test Method:	Notification No.88 of MIC, 2004
Procedure:	Connect high frequency power meter to the RF output of the EUT with a suitable attenuator and measure the total electric power. 

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

6.4 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19
Test Limit:	(1) Below 2387 MHz: 2.5 μW (-26 dBm)/MHz or less (2) 2387 to 2400 MHz: 25.0 μW (-16 dBm)/MHz or less (3) 2483.5 to 2496.5 MHz: 25.0 μW (-16 dBm)/MHz or less (4) Over 2496.5 MHz: 2.5 μW (-26 dBm)/MHz or less
Test Method:	Notification No.88 of MIC, 2004
Procedure:	

[Setting 1]	
Frequency range:	(see Note 1)
RBW:	1 MHz
VBW:	1 MHz
Sweep time:	Minimum time required to make an accurate measurement
Sweep Data Points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold (see Note 2)
Note 1:	Measurement range shall be 30 MHz to 12.5 GHz, except for the following cases: -FHSS, FHSS+DSSS, FHSS+OFDM:2374 MHz to 2509.5 MHz -Other than FHSS, FHSS+DSSS, FHSS+OFDM: 2400 MHz to 2483.5 MHz
Note 2:	Sweep shall be repeated until the max hold waveform is stable.
[Setting 2]	
Center frequency:	Frequency of spurious emission found using [Setting 1]
Span:	0 Hz
RBW:	1 MHz
VBW:	1 MHz
Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval
Sweep Data Points:	1001 or greater
Detector mode:	Sample
[Setting 3]	
Frequency range:	2374 MHz to 2400 MHz 2483.5 MHz to 2509.5 MHz
RBW:	30 kHz
VBW:	30 kHz
Sweep time:	Minimum time required to make an accurate measurement.

Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)
(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.
If spurious emissions ranging from 30 MHz to 2374 MHz and from 2509.5MHz to 12.5GHz are over the limit, then the test result is Fail.
If spurious emissions ranging from 2374 MHz to 2400 MHz and from 2483.5 MHz to 2509.5 MHz are over the limit, then further detailed measurements are required, go to step (3)
(3) In the following cases, measure the spurious emissions using [Setting 3]
- Case1: FHSS, FHSS+DSSS, FHSS+OFDM
- Case2: Other than FHSS, FHSS+DSSS, FHSS+OFDM, and the spurious emissions in step (2) are over the limit
(4) Calculate the spurious emission value (Calculated Value) using following the formula below:
Calculated Value = (Measured Value using (3) + 15.2dB)
Note: 15.2dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz
(5) If the calculated value using (4) is over the Limit (section 6.7), go to (6)
(6) Configure the spectrum analyzer to [Setting 3] then make the following changes: Frequency: Frequency of spurious emission
Span: 1 MHz
(7) After sweep, send the span data set to the PC
(8) Convert measured data from dBm to Watts
(9) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

$$P_s = (\sum_{i=1}^{n} E_i) \times \frac{S_w}{RBW \times k \times n}$$

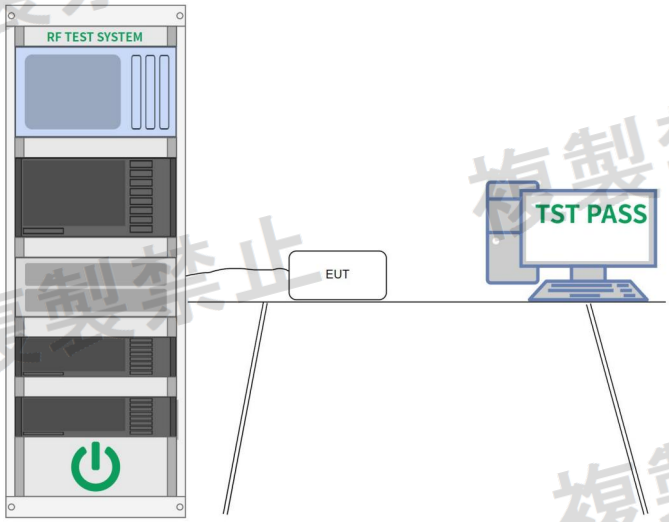
Ps: Sum (Watts)
Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)
n: Number of measurement points in the Span
k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide
RBW: Resolution Bandwidth (MHz).

	(10) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9) (11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values (12) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions) (13) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard) (14) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2				
Final test mode:	Mode1, Mode2				

6.4.2 Test Setup Diagram:



6.4.3 Test Data:

Please Refer to Appendix for Details.

6.5 Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less
Test Method:	Notification No.88 of MIC, 2004
Procedure:	

[Setting 1]	
Frequency range:	30 MHz ~ 12.5 GHz
RBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
VBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold
[Setting 2]	
Center Frequency:	Frequency of spurious emission found using [Setting 1]
Span:	0 Hz
RBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
VBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Sample

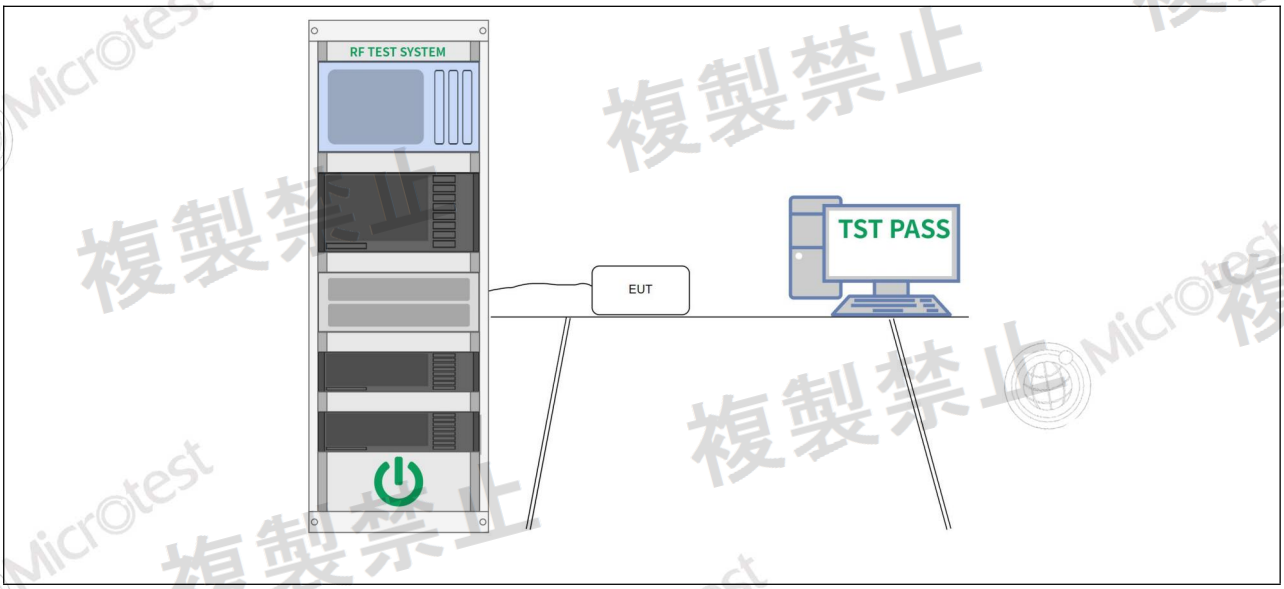
(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points].
(2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3)
(3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time Multiple Antenna Systems
If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below
(4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value
(5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)
(6) Ensure that the composite spectrum does not exceed the Limit

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	23 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode4				

Final test mode:	Mode4

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

Appendix

Appendix A: Deviation of frequency

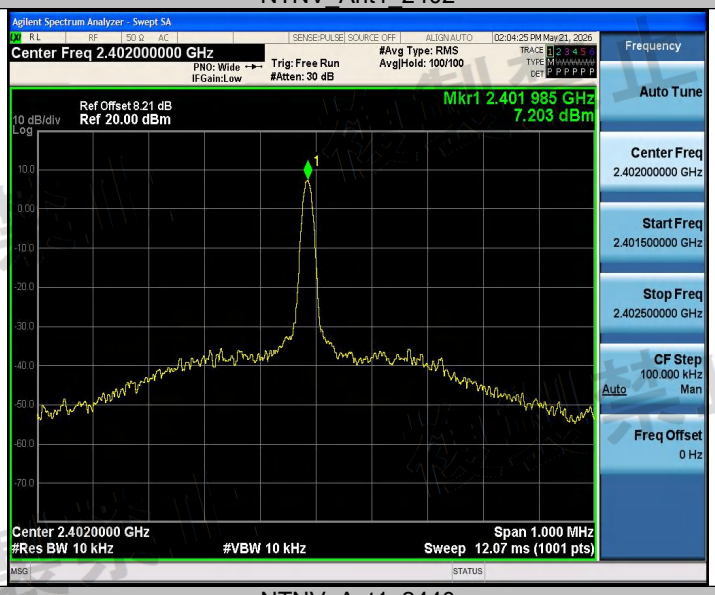
Test Result

Test Condition	Test Mode	Antenna	Freq. [MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	unmodulated carrier	Ant1	2402	2401.985	-6.24480	±50	PASS
			2440	2439.984	-6.55738	±50	PASS
			2480	2479.984	-6.45161	±50	PASS

Note: Result [ppm] = (CenterFreq [MHz] – Freq. [MHz]) / Freq. [MHz] * 1000000

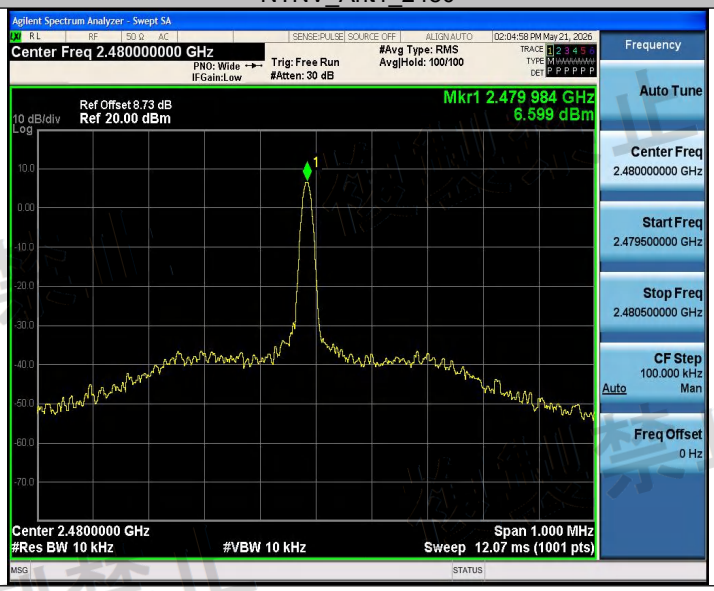
Test Graphs

NTNV_Ant1_2402



NTNV_Ant1_2440

NTNV_Ant1_2480



Appendix B: Deviation of antenna power

Test Result

Antenna Power							
Test Condition	Test Mode	Antenna	Freq. [MHz]	Result [dBm]	Result [mW]	Limit [mW]	Verdict
NTNV	BLE_1M	Ant1	2402	9.10	8.1283	≤10	PASS
			2440	9.20	8.3176	≤10	PASS
			2480	8.56	7.1779	≤10	PASS
	BLE_2M	Ant1	2402	8.91	7.7804	≤10	PASS
			2440	9.01	7.9616	≤10	PASS
			2480	8.59	7.2277	≤10	PASS

Note:
The EUT is set to be in continuously transmitting mode.

Tolerance								
Test Condition	Test Mode	Antenna	Freq. [MHz]	Power [mW]	RatedPower [mW]	Result [%]	Limit [%]	Verdict
NTNV	BLE_1M	Ant1	2402	8.1283	10	-18.72	≤20	PASS
			2440	8.3176	10	-16.82	≤20	PASS
			2480	7.1779	10	-28.22	≤20	PASS
	BLE_2M	Ant1	2402	7.7804	10	-22.20	≤20	PASS
			2440	7.9616	10	-20.38	≤20	PASS
			2480	7.2277	10	-27.72	≤20	PASS

Notes:
Result = (Power [mW] – RatedPower [mW]) / RatedPower [mW] * 100
The rated power is 10 mW for BLE_1M, which is declared by the manufacturer.
The rated power is 10 mW for BLE_2M, which is declared by the manufacturer.

EIRP							
Test Condition	Test Mode	Antenna	Freq. [MHz]	Result [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
NTNV	BLE_1M	Ant2	2402	9.10	5.90	≤12.14	PASS
			2440	9.20	6.00	≤12.14	PASS
			2480	8.56	5.36	≤12.14	PASS
	BLE_2M	Ant2	2402	8.91	5.71	≤12.14	PASS
			2440	9.01	5.81	≤12.14	PASS
			2480	8.59	5.39	≤12.14	PASS
	BLE_1M	Ant1	2402	9.10	6.2	≤12.14	PASS
			2440	9.20	6.3	≤12.14	PASS
			2480	8.56	5.66	≤12.14	PASS
	BLE_2M	Ant1	2402	8.91	6.01	≤12.14	PASS
			2440	9.01	6.11	≤12.14	PASS
			2480	8.59	5.69	≤12.14	PASS

Notes:
The antenna gain is ANT2: -3.2 dBi, ANT1: -2.9dBi.
EIRP= Conducted Peak Power+ antenna gain.
ANT1 is Right earphone, ANT2 is Left earphone.

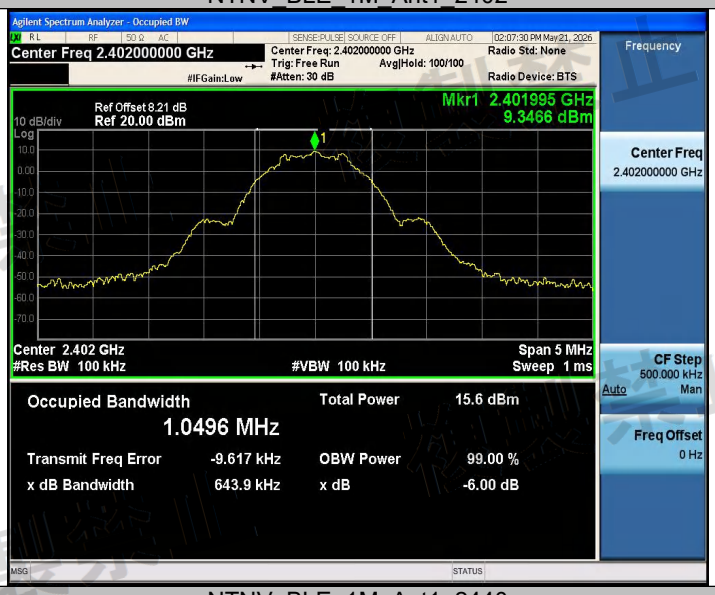
Appendix C: Occupied Bandwidth

Test Result

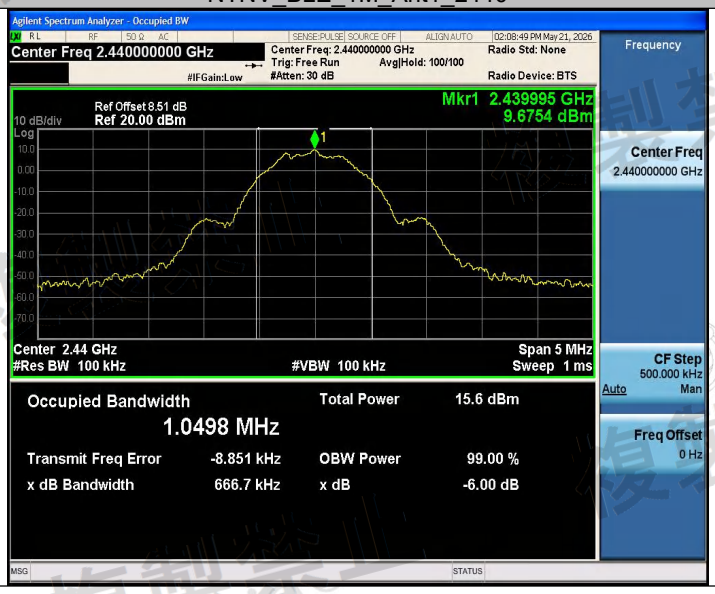
Test Condition	Test Mode	Antenna	Freq. [MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.050	≤26	PASS
			2440	1.050	≤26	PASS
			2480	1.058	≤26	PASS
	BLE_2M	Ant1	2402	2.057	≤26	PASS
			2440	2.087	≤26	PASS
			2480	2.056	≤26	PASS

Test Graphs

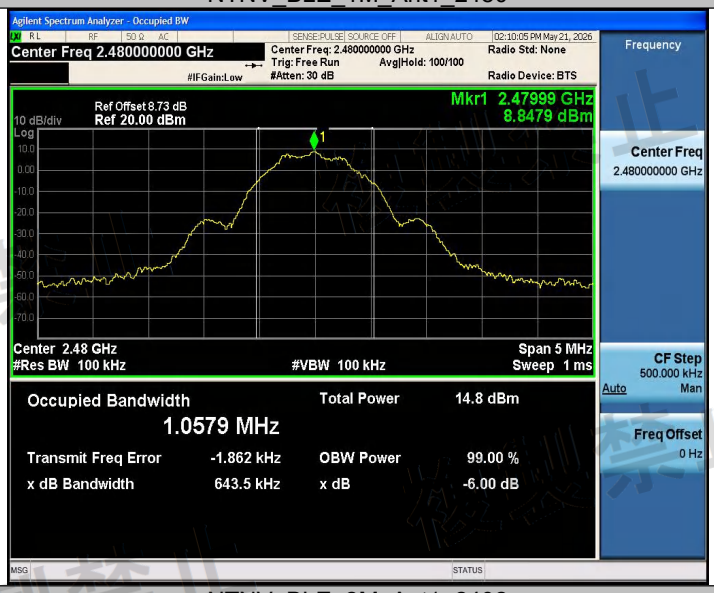
NTNV_BLE_1M_Ant1_2402



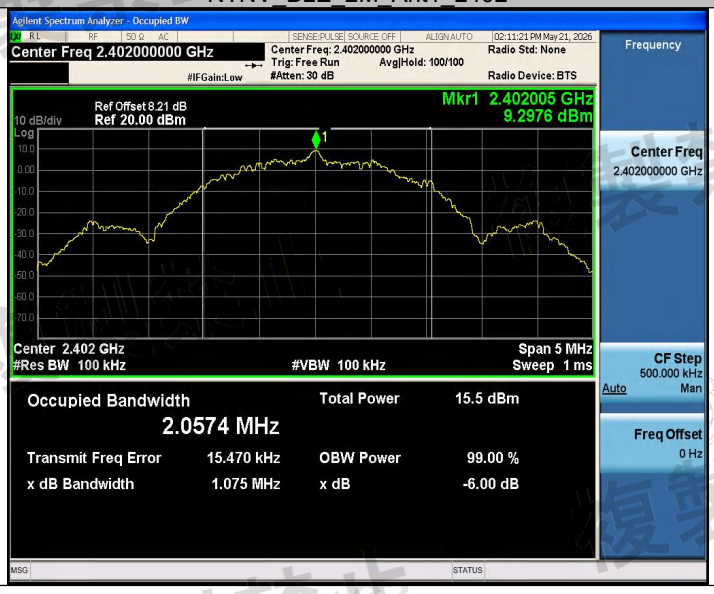
NTNV_BLE_1M_Ant1_2440



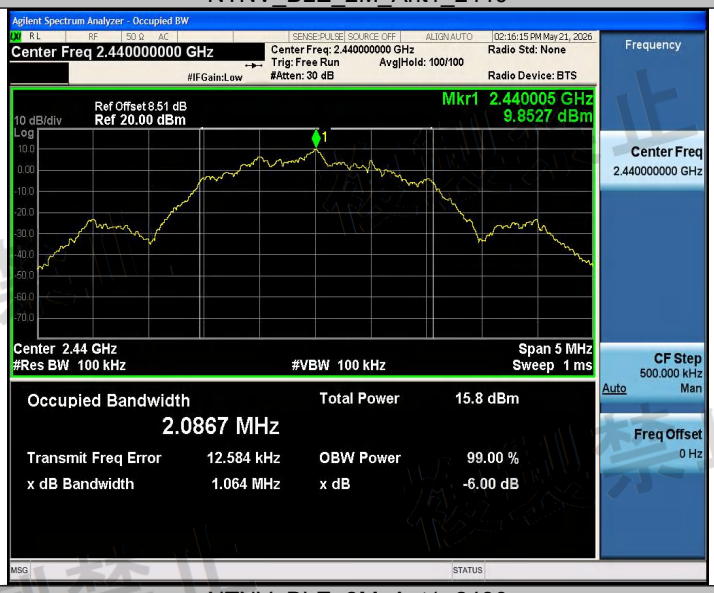
NTNV_BLE_1M_Ant1_2480



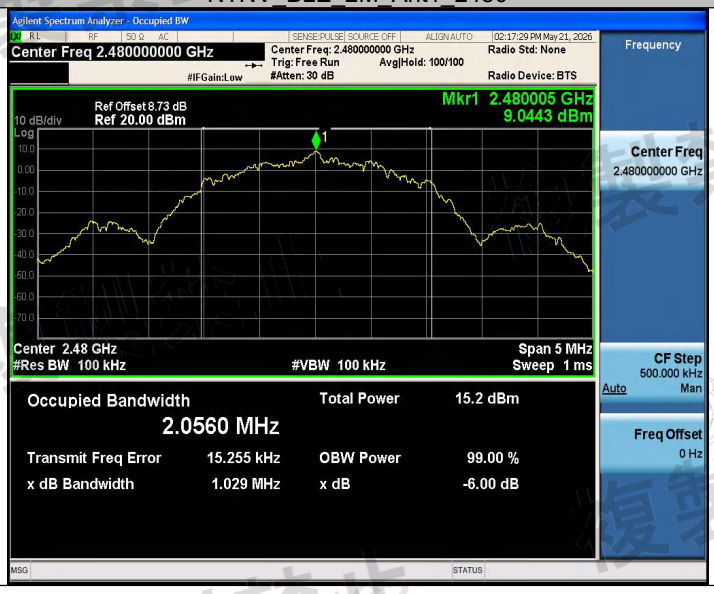
NTNV_BLE_2M_Ant1_2402



NTNV_BLE_2M_Ant1_2440



NTNV_BLE_2M_Ant1_2480



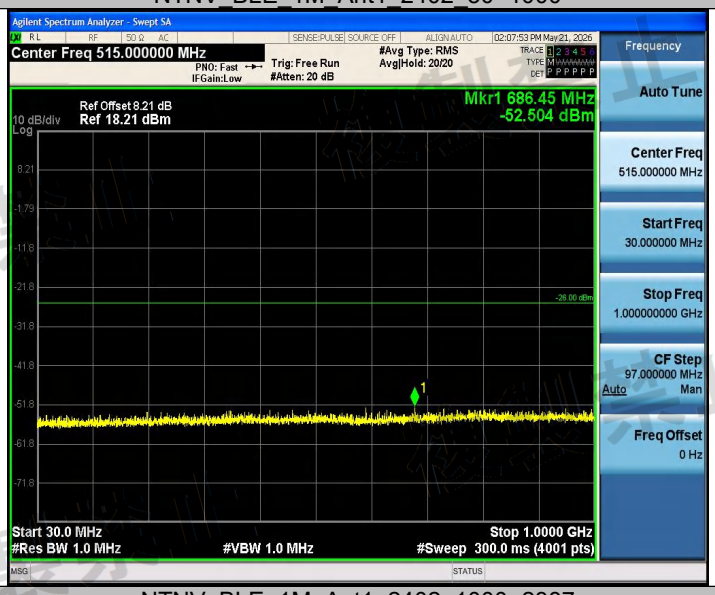
Appendix D: Spurious Emission of TX

Test Result

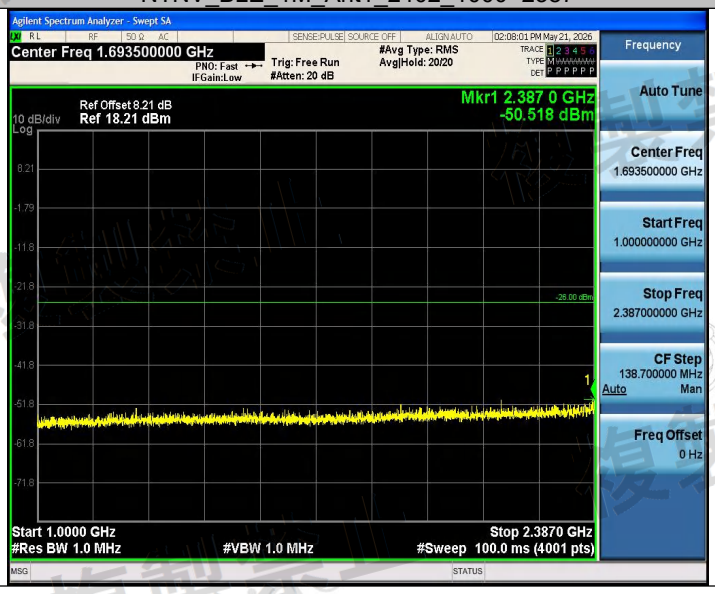
Test Condition	Test Mode	Antenna	Freq. [MHz]	Freq.Range [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-52.50	≤-26	0.00562	≤2.5	PASS
				1000~2387	-50.52	≤-26	0.00887	≤2.5	PASS
				2387~2400	-26.31	≤-16	2.33884	≤25	PASS
				2483.5~2496.5	-41.80	≤-16	0.06607	≤25	PASS
				2496.5~13000	-48.77	≤-26	0.01327	≤2.5	PASS
			2440	30~1000	-51.81	≤-26	0.00659	≤2.5	PASS
				1000~2387	-50.95	≤-26	0.00804	≤2.5	PASS
				2387~2400	-41.51	≤-16	0.07063	≤25	PASS
				2483.5~2496.5	-41.34	≤-16	0.07345	≤25	PASS
				2496.5~13000	-48.96	≤-26	0.01271	≤2.5	PASS
			2480	30~1000	-51.50	≤-26	0.00708	≤2.5	PASS
				1000~2387	-51.31	≤-26	0.00740	≤2.5	PASS
				2387~2400	-41.39	≤-16	0.07261	≤25	PASS
				2483.5~2496.5	-40.48	≤-16	0.08954	≤25	PASS
				2496.5~13000	-48.63	≤-26	0.01371	≤2.5	PASS
	BLE_2M	Ant1	2402	30~1000	-52.03	≤-26	0.00627	≤2.5	PASS
				1000~2387	-51.05	≤-26	0.00785	≤2.5	PASS
				2387~2400	-24.95	≤-16	3.19890	≤25	PASS
				2483.5~2496.5	-41.91	≤-16	0.06442	≤25	PASS
				2496.5~13000	-49.12	≤-26	0.01225	≤2.5	PASS
			2440	30~1000	-52.28	≤-26	0.00592	≤2.5	PASS
				1000~2387	-51.58	≤-26	0.00695	≤2.5	PASS
				2387~2400	-41.59	≤-16	0.06934	≤25	PASS
				2483.5~2496.5	-41.05	≤-16	0.07852	≤25	PASS
				2496.5~13000	-48.04	≤-26	0.01570	≤2.5	PASS
			2480	30~1000	-51.20	≤-26	0.00759	≤2.5	PASS
				1000~2387	-50.74	≤-26	0.00843	≤2.5	PASS
				2387~2400	-41.44	≤-16	0.07178	≤25	PASS
				2483.5~2496.5	-39.17	≤-16	0.12106	≤25	PASS
				2496.5~13000	-47.07	≤-26	0.01963	≤2.5	PASS

Test Graphs

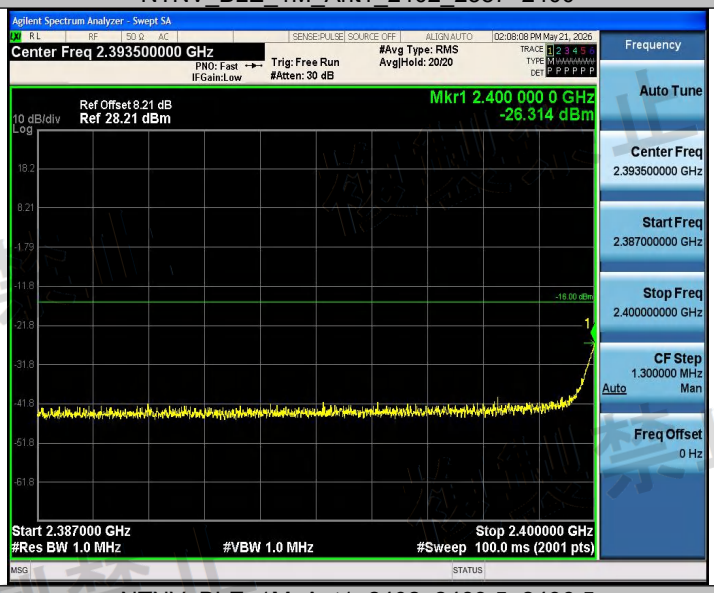
NTNV_BLE_1M_Ant1_2402_30~1000



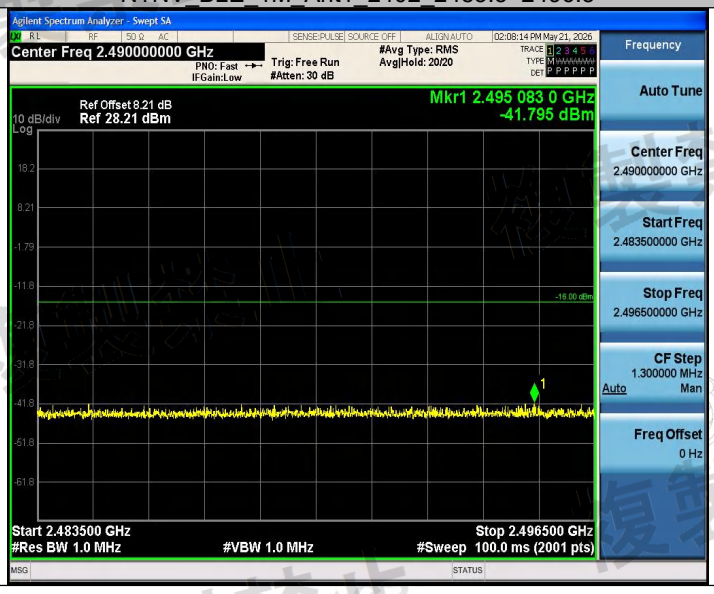
NTNV_BLE_1M_Ant1_2402_1000~2387



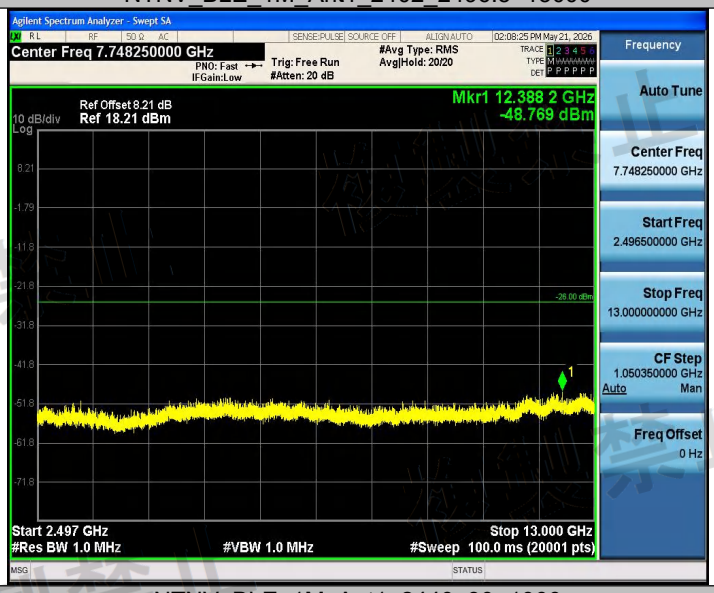
NTNV_BLE_1M_Ant1_2402_2387~2400



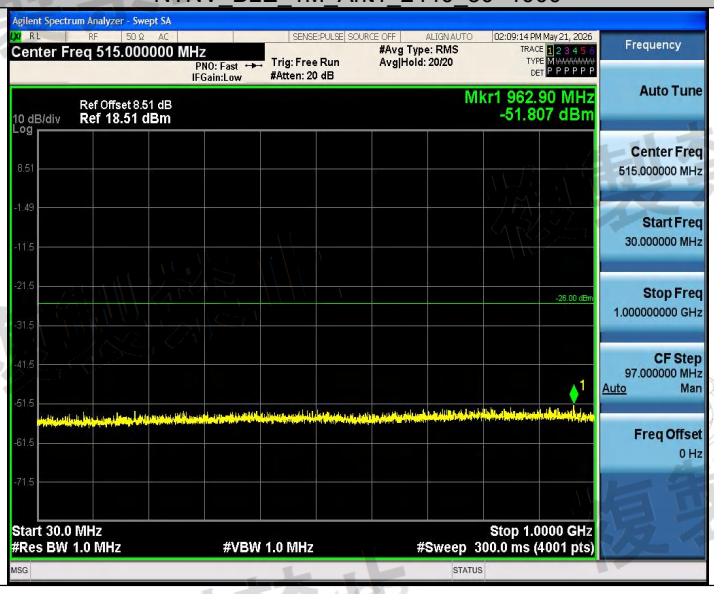
NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



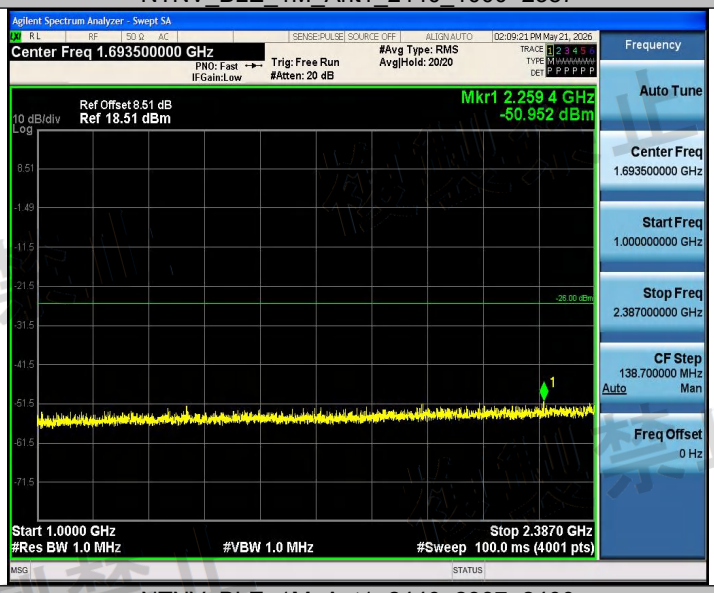
NTNV_BLE_1M_Ant1_2402_2496.5~13000



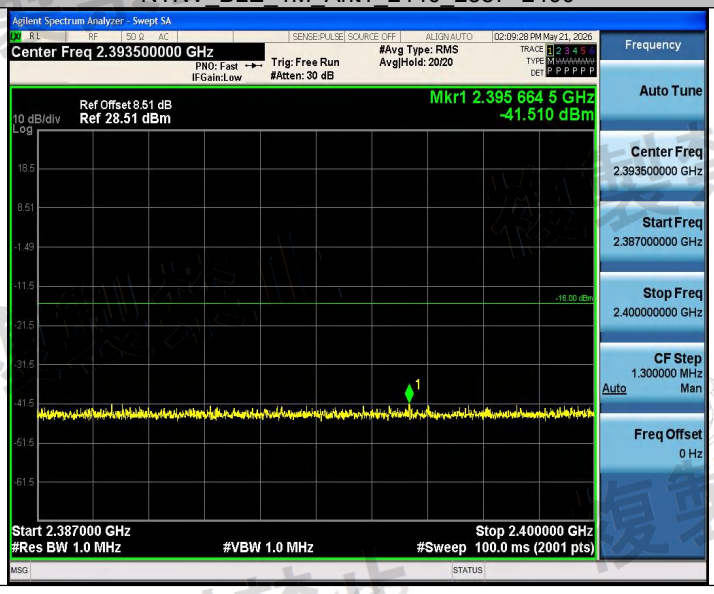
NTNV_BLE_1M_Ant1_2440_30~1000



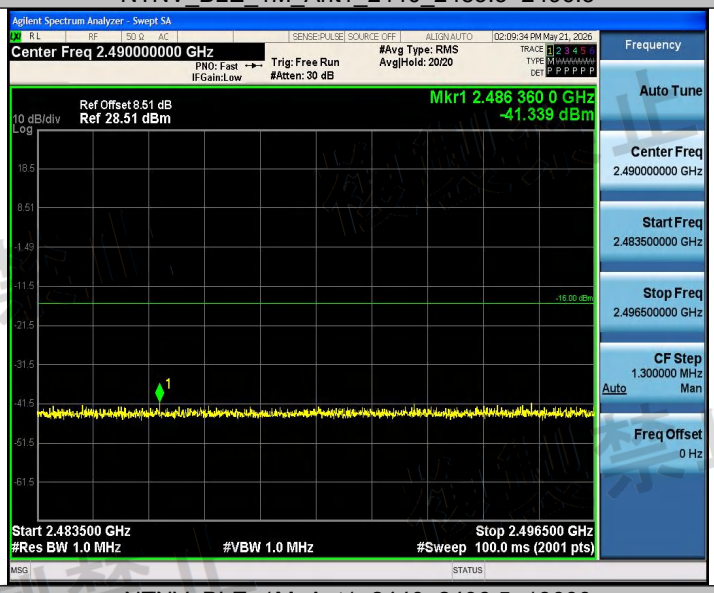
NTNV_BLE_1M_Ant1_2440_1000~2387



NTNV_BLE_1M_Ant1_2440_2387~2400

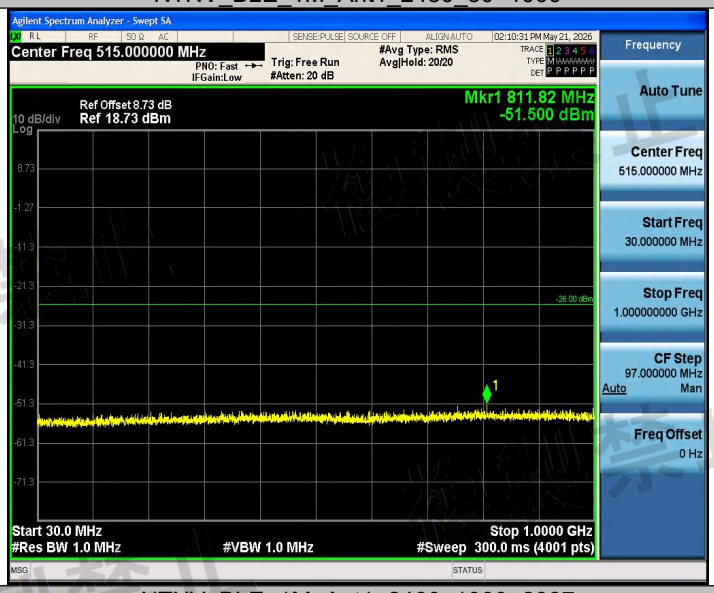


NTNV_BLE_1M_Ant1_2440_2483.5~2496.5

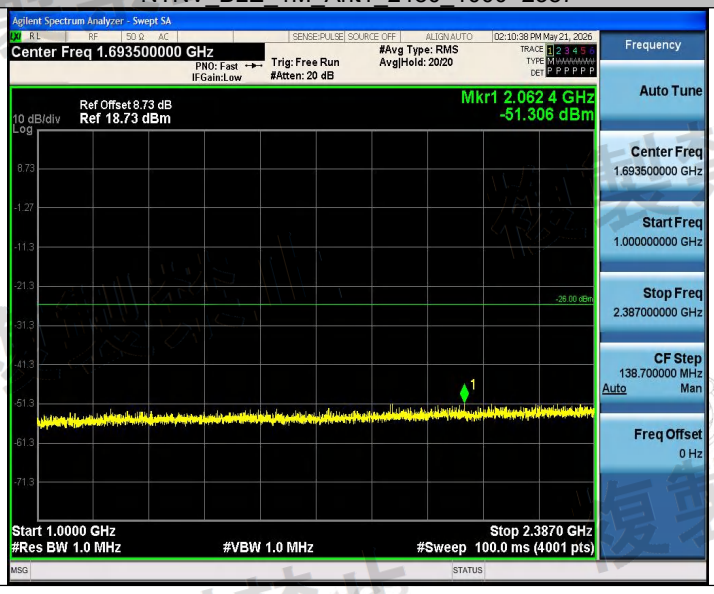


NTNV_BLE_1M_Ant1_2440_2496.5~13000

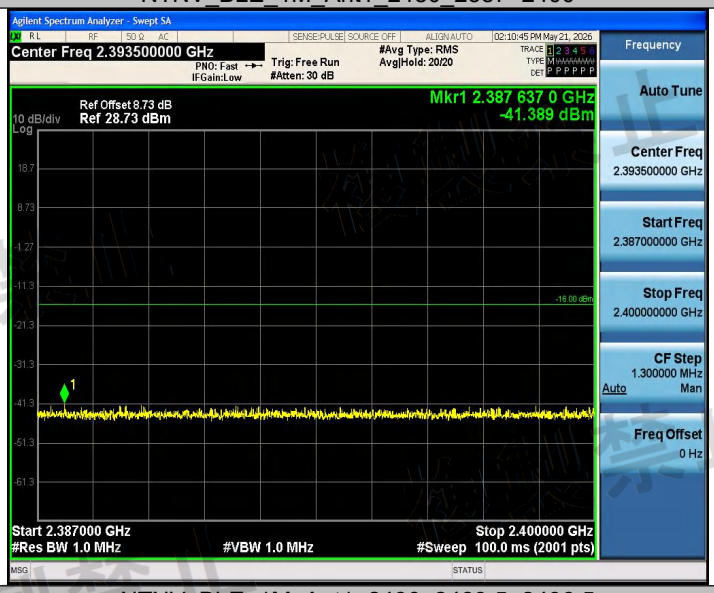
NTNV_BLE_1M_Ant1_2480_30~1000



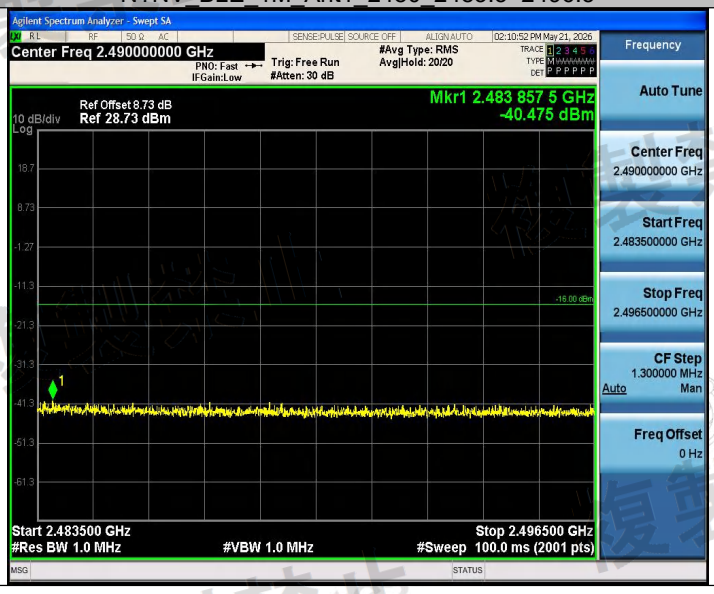
NTNV_BLE_1M_Ant1_2480_1000~2387



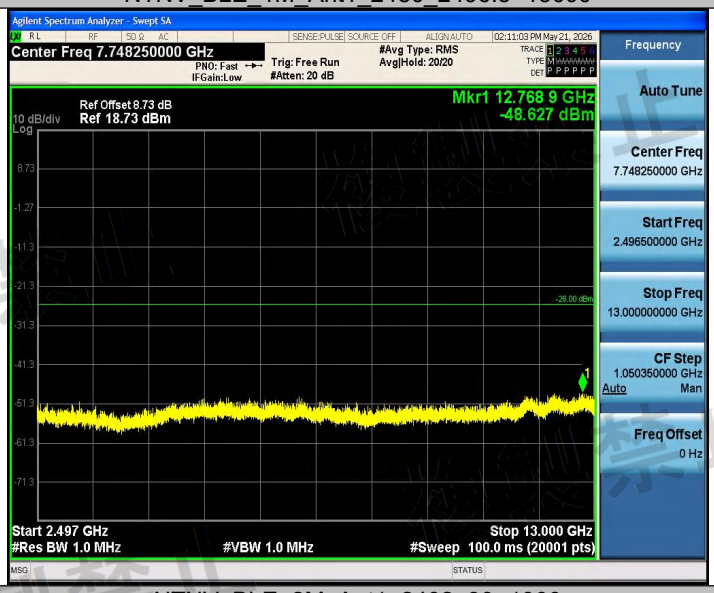
NTNV_BLE_1M_Ant1_2480_2387~2400



NTNV_BLE_1M_Ant1_2480_2483.5~2496.5

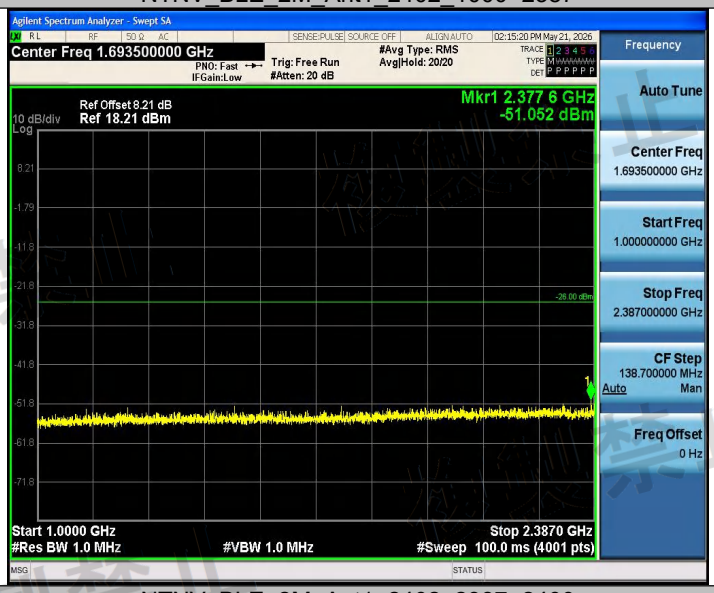


NTNV_BLE_1M_Ant1_2480_2496.5~13000

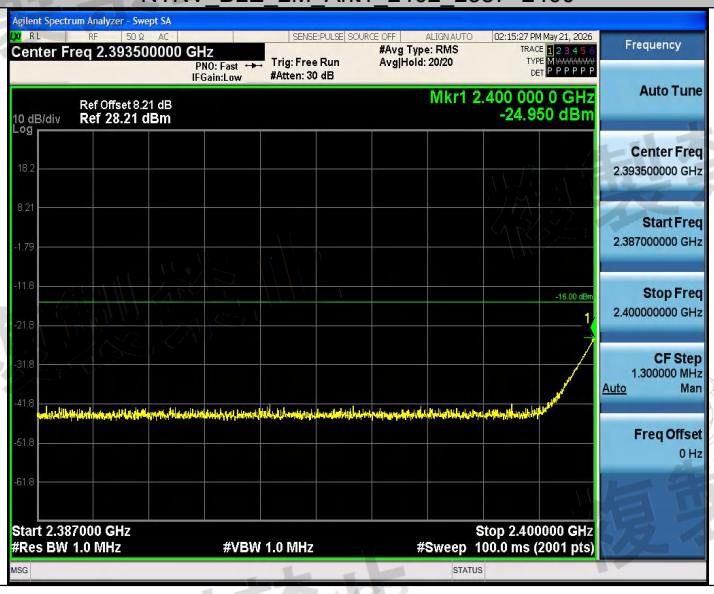


NTNV_BLE_2M_Ant1_2402_30~1000

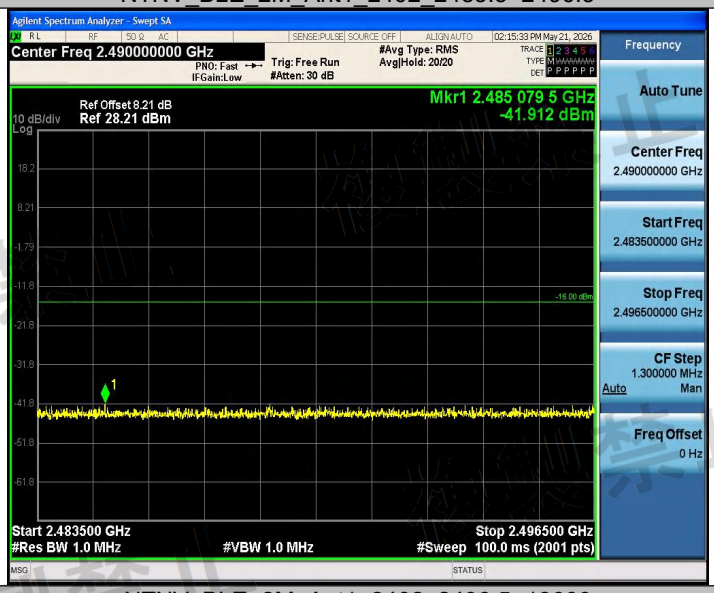
NTNV_BLE_2M_Ant1_2402_1000~2387



NTNV_BLE_2M_Ant1_2402_2387~2400

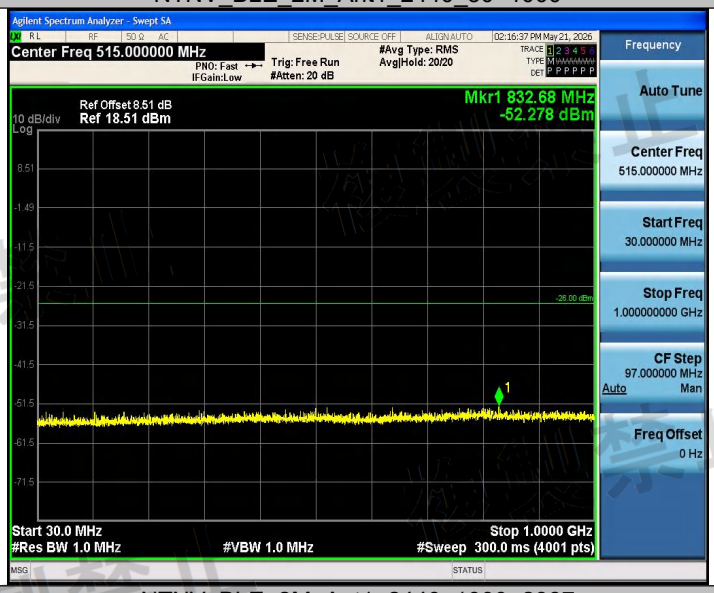


NTNV_BLE_2M_Ant1_2402_2483.5~2496.5

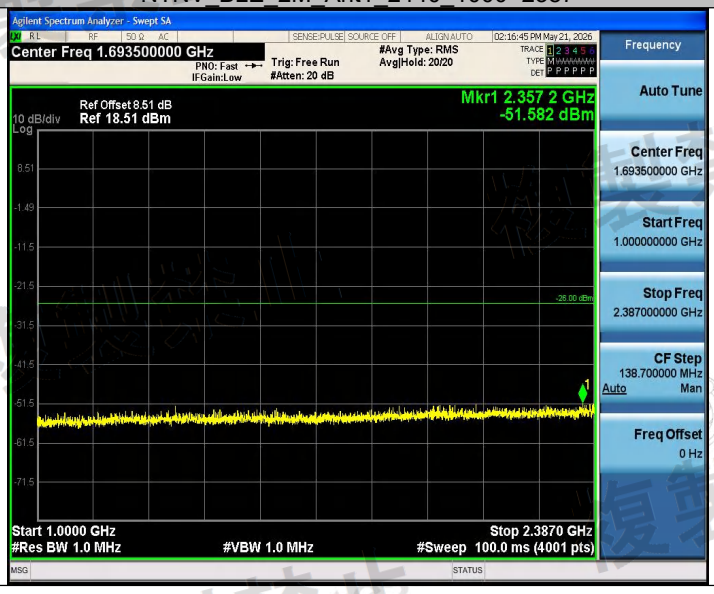


NTNV_BLE_2M_Ant1_2402_2496.5~13000

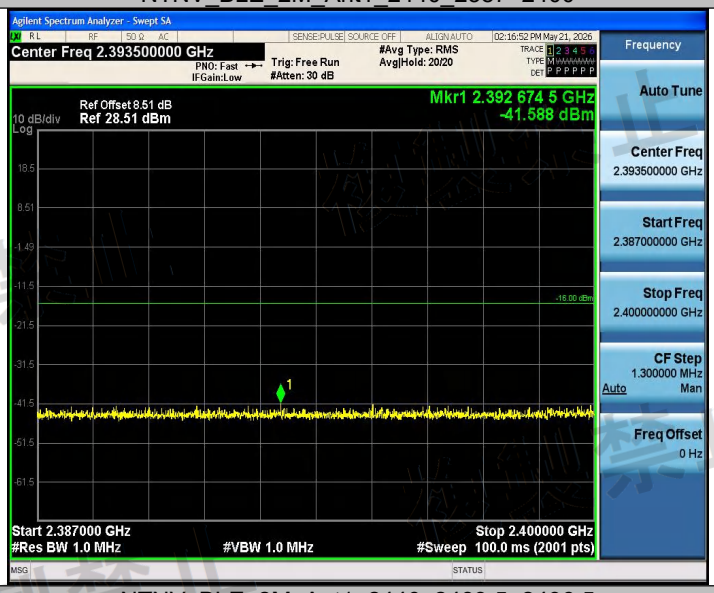
NTNV_BLE_2M_Ant1_2440_30~1000



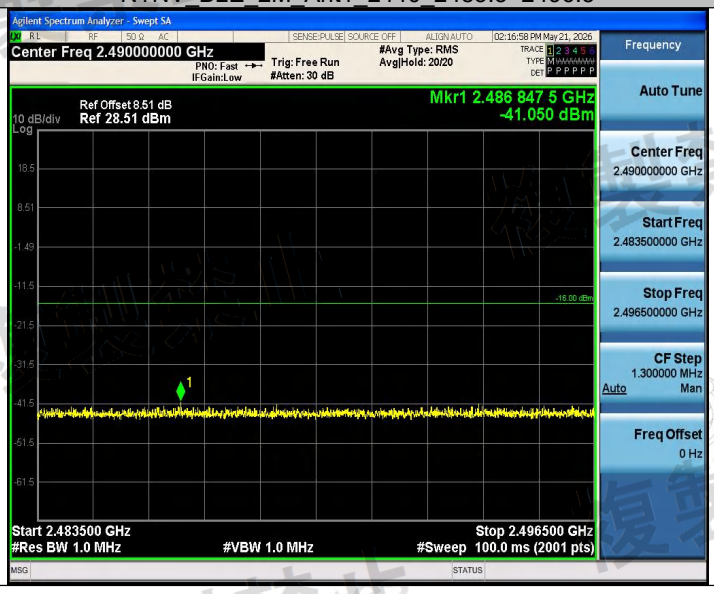
NTNV_BLE_2M_Ant1_2440_1000~2387



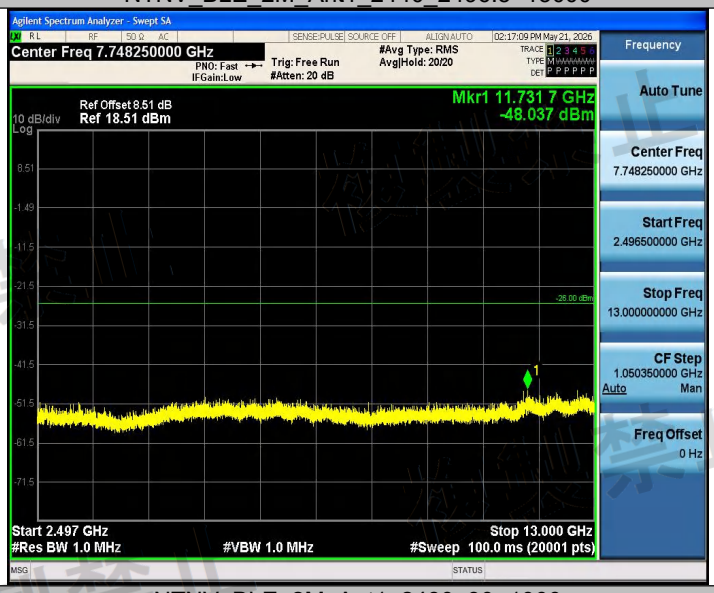
NTNV_BLE_2M_Ant1_2440_2387~2400



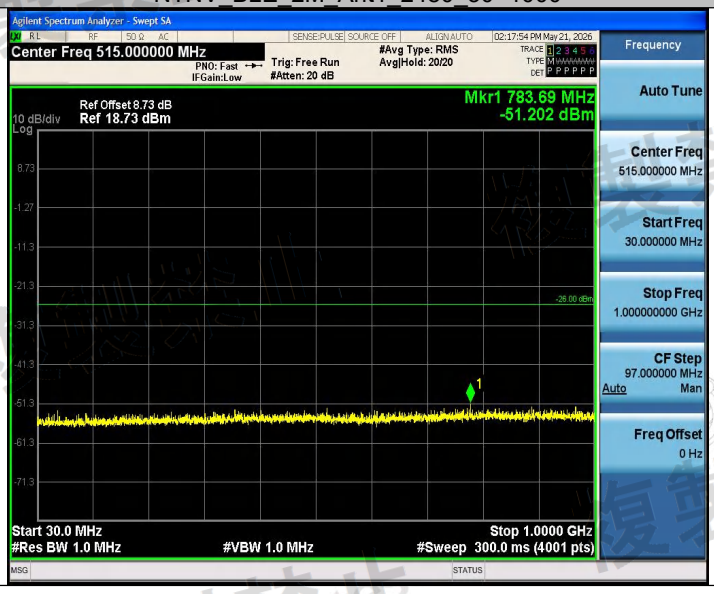
NTNV_BLE_2M_Ant1_2440_2483.5~2496.5



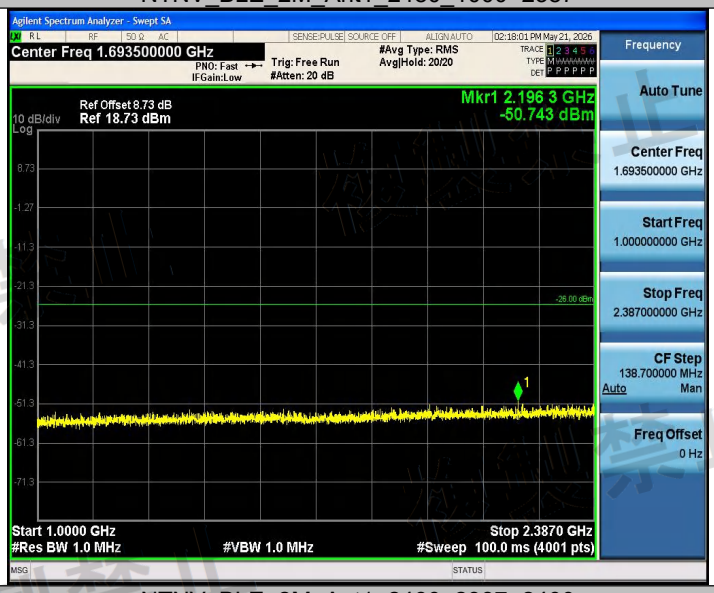
NTNV_BLE_2M_Ant1_2440_2496.5~13000



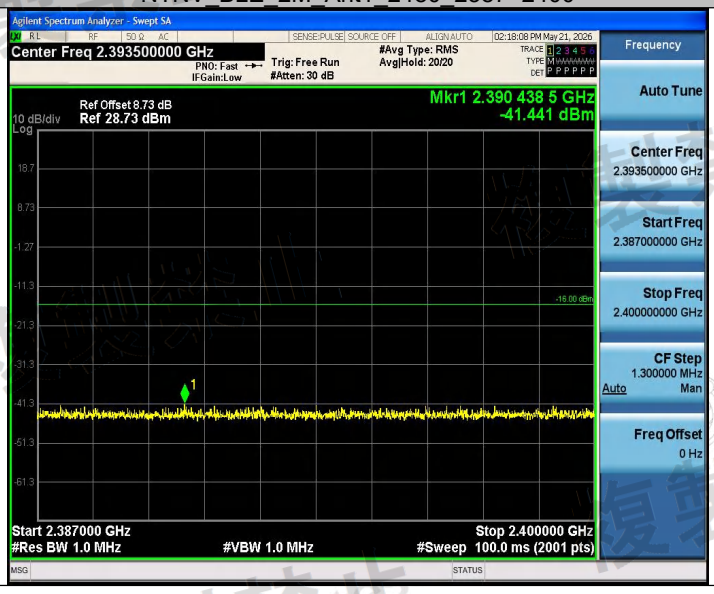
NTNV_BLE_2M_Ant1_2480_30~1000



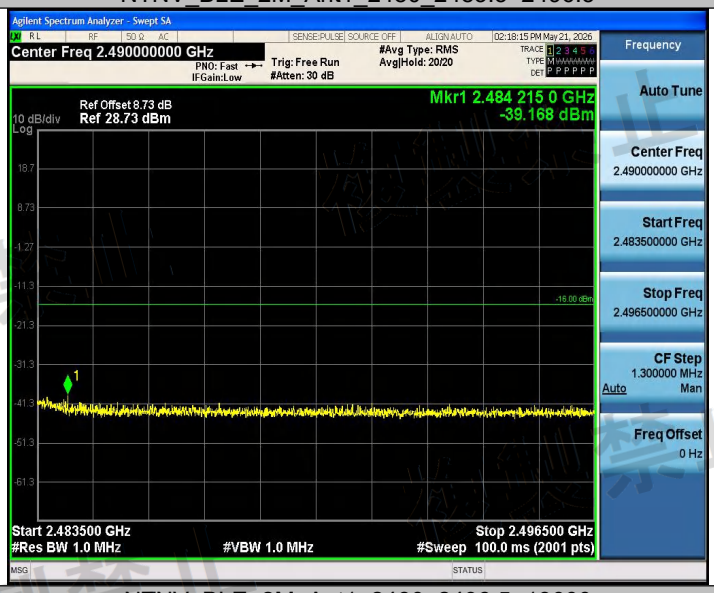
NTNV_BLE_2M_Ant1_2480_1000~2387



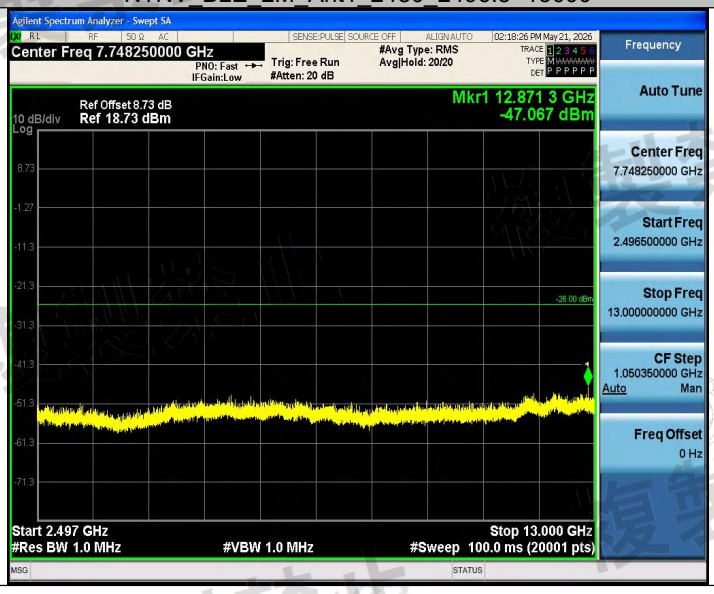
NTNV_BLE_2M_Ant1_2480_2387~2400



NTNV_BLE_2M_Ant1_2480_2483.5~2496.5



NTNV_BLE_2M_Ant1_2480_2496.5~13000



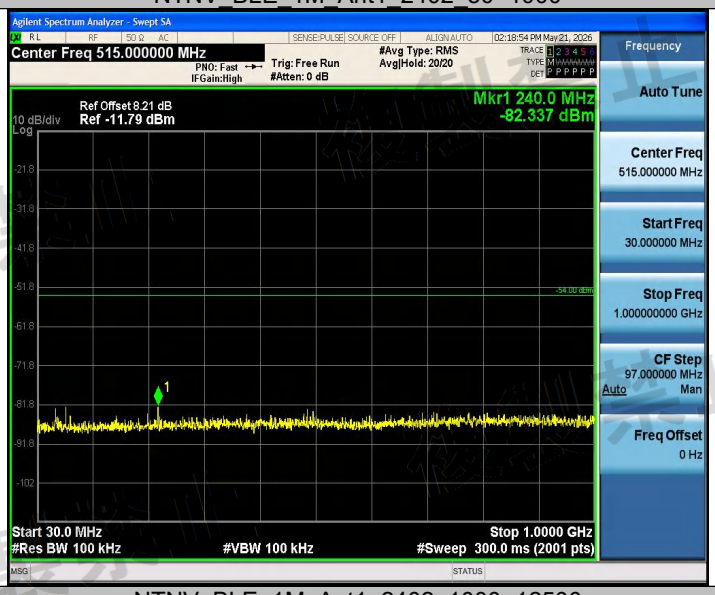
Appendix E: Spurious Emission of RX

Test Result

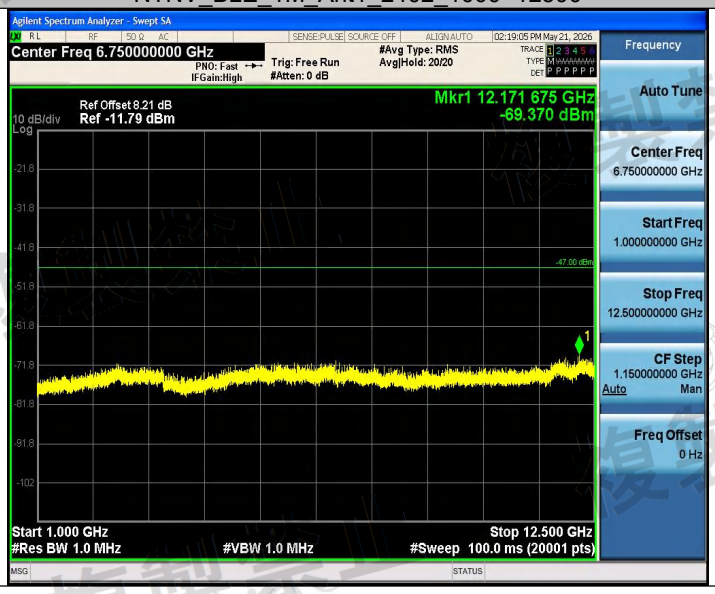
Test Condition	Test Mode	Antenna	Freq. [MHz]	Freq.Range [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	-82.34	≤-54	0.00583	≤4	PASS
				1000~12500	-69.37	≤-47	0.11561	≤20	PASS
			2440	30~1000	-81.4	≤-54	0.00724	≤4	PASS
				1000~12500	-63.07	≤-47	0.49317	≤20	PASS
			2480	30~1000	-71.11	≤-54	0.07745	≤4	PASS
				1000~12500	-68.79	≤-47	0.13213	≤20	PASS
	BLE_2M	Ant1	2402	30~1000	-82.31	≤-54	0.00587	≤4	PASS
				1000~12500	-64.21	≤-47	0.37931	≤20	PASS
			2440	30~1000	-82.41	≤-54	0.00574	≤4	PASS
				1000~12500	-63.08	≤-47	0.49204	≤20	PASS
			2480	30~1000	-82.03	≤-54	0.00627	≤4	PASS
				1000~12500	-69.12	≤-47	0.12246	≤20	PASS

Test Graphs

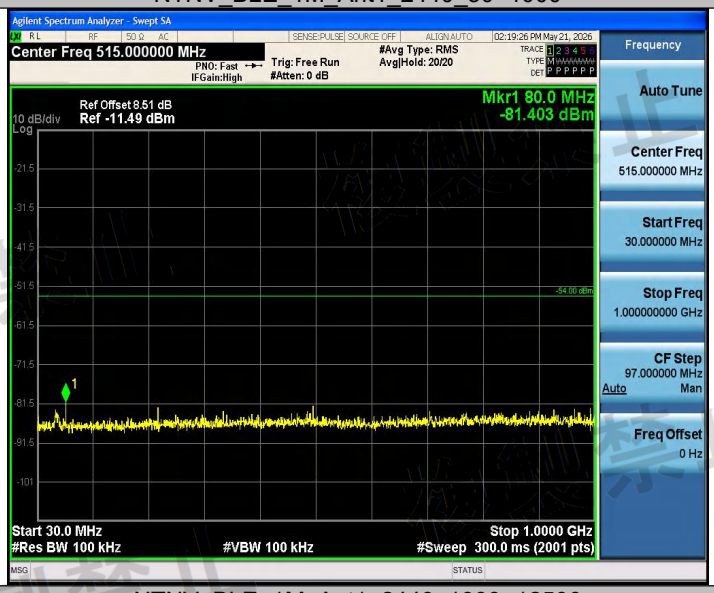
NTNV_BLE_1M_Ant1_2402_30~1000



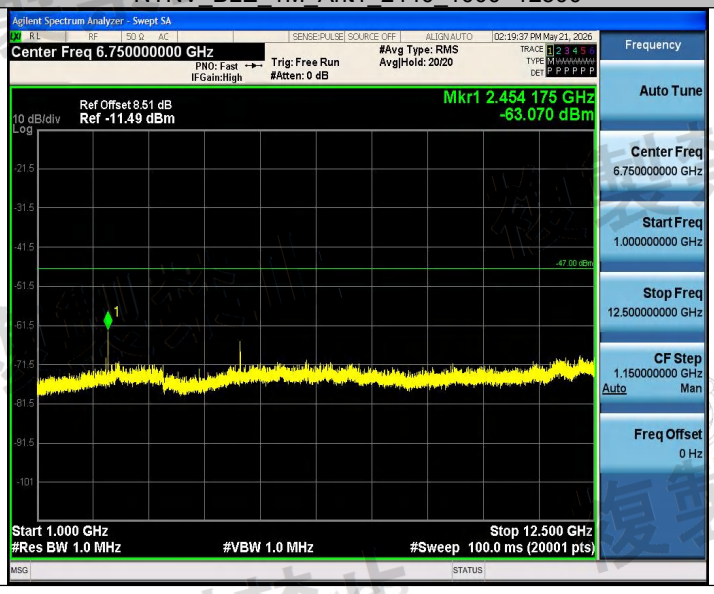
NTNV_BLE_1M_Ant1_2402_1000~12500



NTNV_BLE_1M_Ant1_2440_30~1000



NTNV_BLE_1M_Ant1_2440_1000~12500



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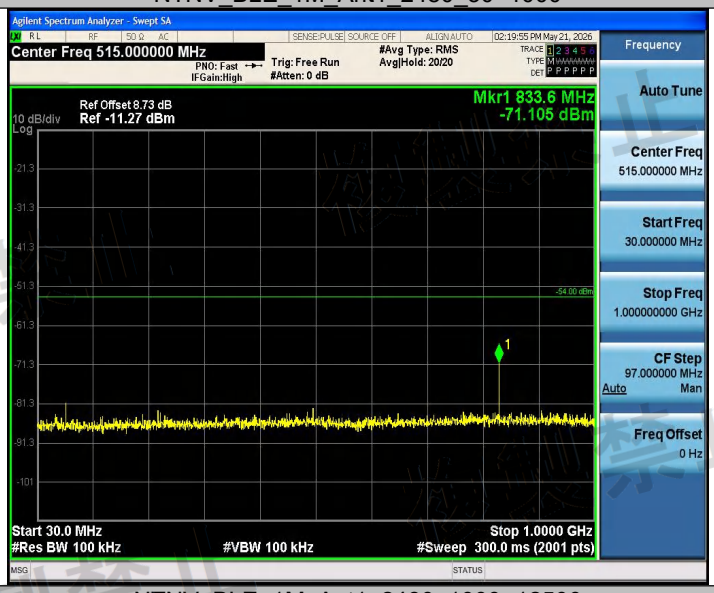

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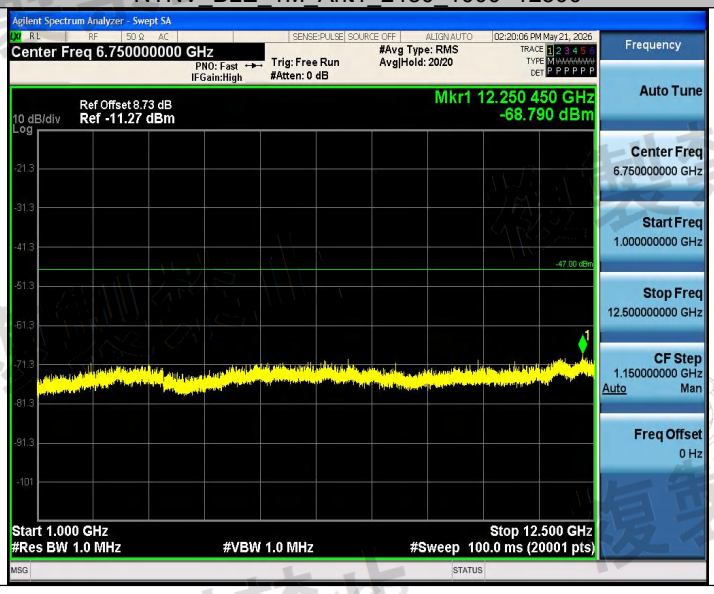

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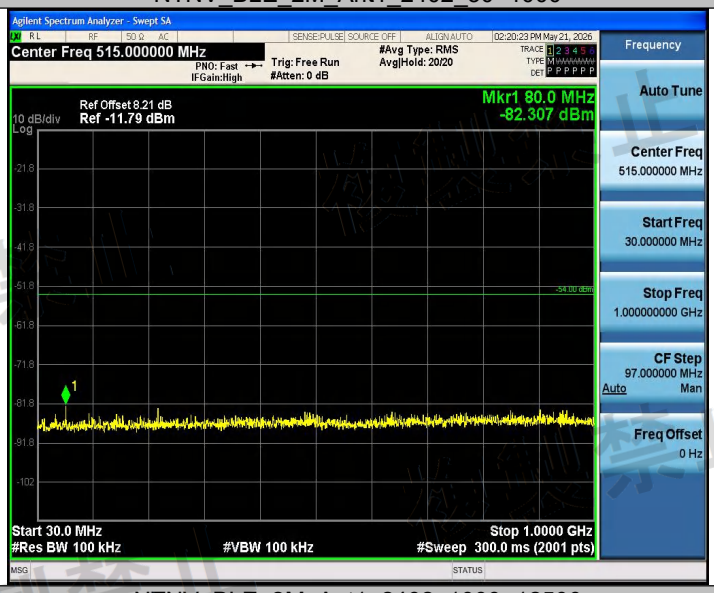

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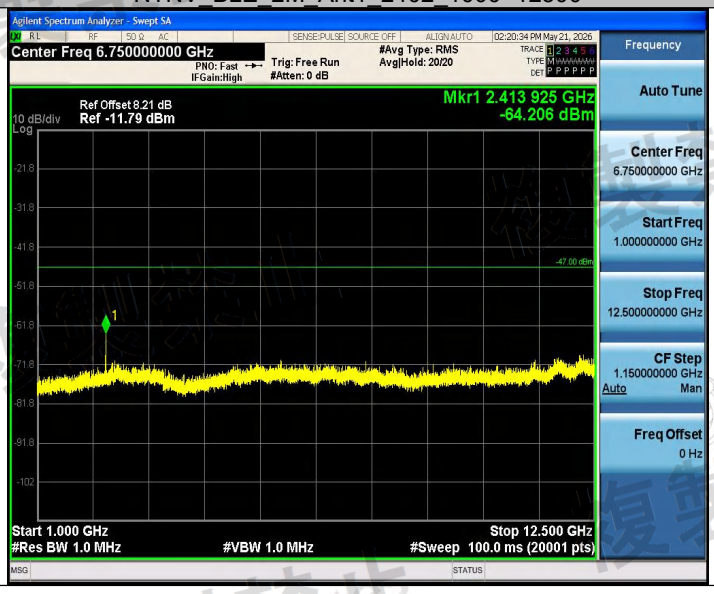

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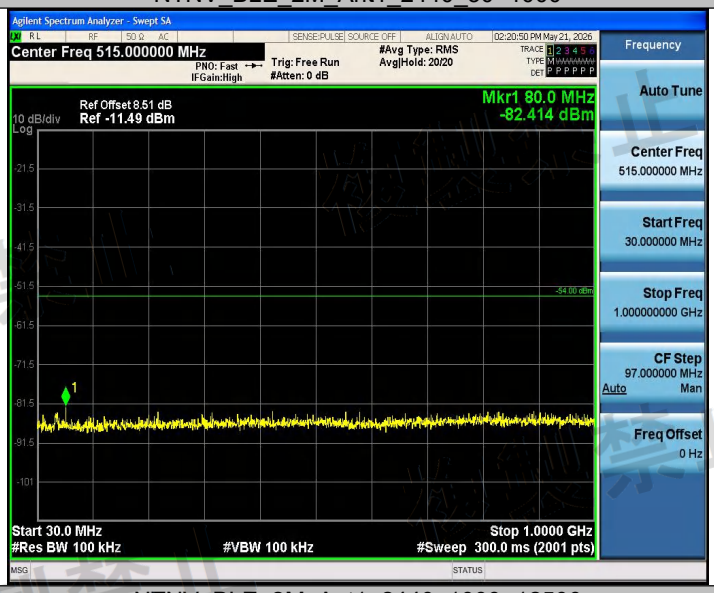

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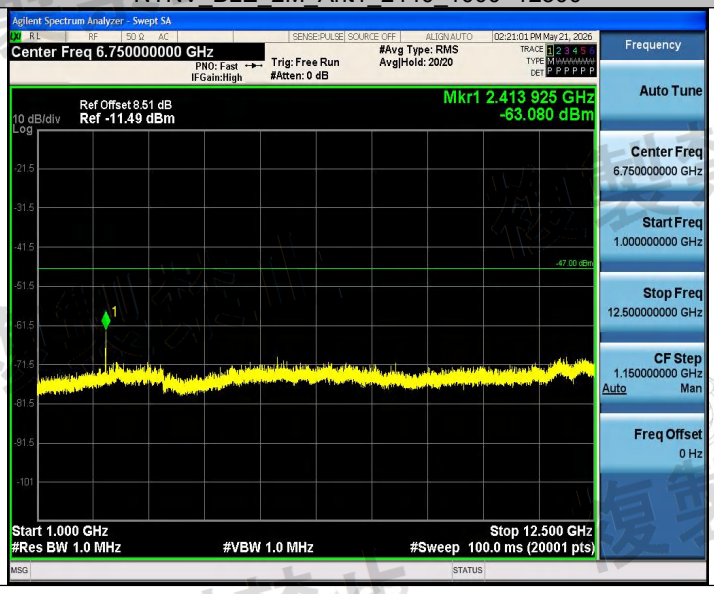

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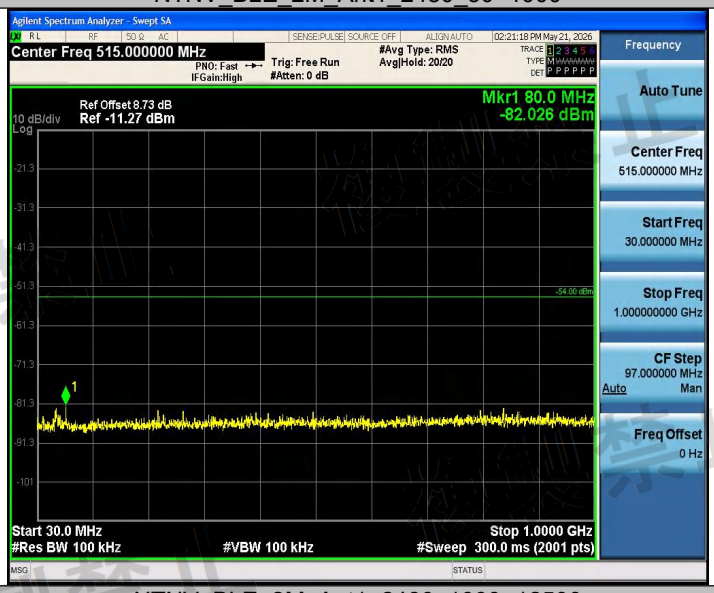

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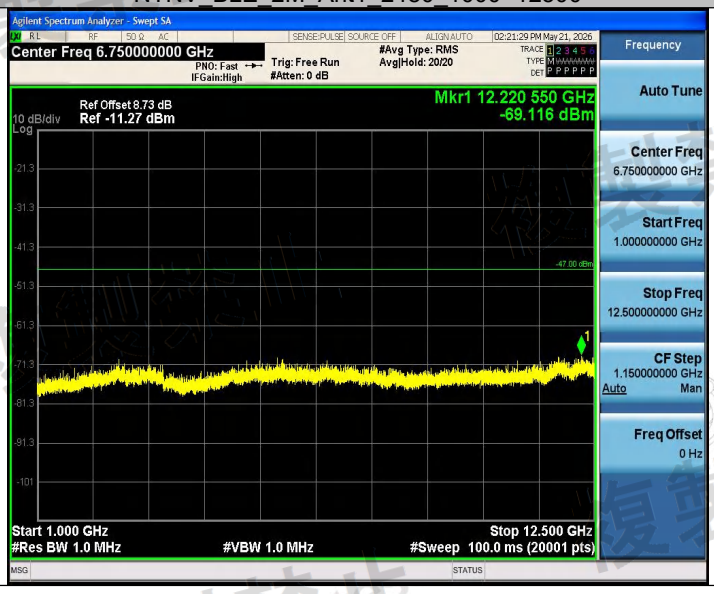

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1. This report is invalid without the seal and signature of the laboratory.

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****** END OF REPORT ******