



# Test Report

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**Application No.:** DNT2603311046R01937-02426  
**Applicant:** MiraAre Co., Ltd.  
**Address of Applicant:** 539-11 Sone, Itoshima City, Fukuoka Prefecture, 819-1561, Japan  
**EUT Description:** Side Sleep Buds  
**Model No.:** MiniOne  
**Trade Mark:** \_amp  
**Standards:** Item 19 of Article 2 Paragraph 1  
MIC Notice No.88 Appendix No.43  
**Date of Receipt:** 2026/03/31  
**Date of Test:** 2026/03/31 to 2026/04/10  
**Date of Issue:** 2026/04/10  
**Test Result:** PASS \*

**Prepared By:** Calk. Lin (Testing Engineer)

**Reviewed By:** Wayne. Lin (Project Engineer)

**Approved By:** Heise Shen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

**Dongguan DN Testing Co., Ltd.**

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Date: April 10, 2026

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Report Revise Record

| Report Version | Revise Time | Issued Date    | Valid Version | Notes           |
|----------------|-------------|----------------|---------------|-----------------|
| V1.0           | /           | April 10, 2026 | Valid         | Original Report |



## 1 Test Summary

| Test                               | Test Method                                                              | Limit/Severity                                                                                                                                   | Result |
|------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Antenna Requirement                | MIC Notice No.88<br>Appendix No.43                                       | Notice 88 Appendix 43, B-1 (1) & (2)                                                                                                             | PASS   |
| Test frequency                     | MIC Notice No.88<br>Appendix No.43                                       | Notice 88 Appendix 43, A-3                                                                                                                       | PASS   |
| Frequency Error                    | MIC Notice No.88<br>Appendix No.43                                       | $\leq \pm 50$ ppm                                                                                                                                | PASS   |
| Occupied Bandwidth                 | MIC Notice No.88<br>Appendix No.43                                       | Others: $\leq 26$ MHz                                                                                                                            | PASS   |
| Spread Bandwidth                   | MIC Notice No.88<br>Appendix No.43                                       | $\geq 0.5$ MHz                                                                                                                                   | PASS   |
| Antenna Power and Tolerance        | MIC Notice No.88<br>Appendix No.43<br>MIC Notice No.88<br>Appendix No.43 | Others: $\leq 10$ mW<br>Tolerance: $+20\%$                                                                                                       | PASS   |
| Spurious Emission of Tx            | MIC Notice No.88<br>Appendix No.43                                       | $< 2387$ MHz $\leq 2.5\mu$ W/MHz<br>2387 ~ 2400MHz $\leq 25\mu$ W/MHz<br>2483.5 ~ 2496.5MHz $\leq 25\mu$ W/MHz<br>>2496.5MHz $\leq 2.5\mu$ W/MHz | PASS   |
| Interference prevention capability | MIC Notice No.88<br>Appendix No.43                                       | Notice 88 Appendix 43, 44, 45                                                                                                                    | PASS   |
| Spurious Emission of Rx            | MIC Notice No.88<br>Appendix No.43                                       | (1) Below 1 GHz: $\leq 4$ nW<br>(2) Above 1 GHz: $\leq 20$ nW                                                                                    | PASS   |

### Remark:

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radio Frequency.

Item 19 of Article 2 Paragraph 1



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## 2 General Information

### 2.1 General Description of E.U.T.

|                                                                                                                                                                                                                                                                                                          |                                                                                                |                 |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|-------------------|
| Manufacturer:                                                                                                                                                                                                                                                                                            | Shenzhen Dacheng Electronic Co.,Ltd.                                                           |                 |                   |
| Address of Manufacture:                                                                                                                                                                                                                                                                                  | 211, Lanyuan, Zhongxin Road, Dalang Street, Longhua District,Shenzhen, Guangdong, China 518109 |                 |                   |
| Product Name:                                                                                                                                                                                                                                                                                            | Side Sleep Buds                                                                                |                 |                   |
| Model No.:                                                                                                                                                                                                                                                                                               | MiniOne                                                                                        |                 |                   |
| Additional Model:                                                                                                                                                                                                                                                                                        | /                                                                                              |                 |                   |
| Trade Mark:                                                                                                                                                                                                                                                                                              | _amp                                                                                           |                 |                   |
| Hardware Version:                                                                                                                                                                                                                                                                                        | V1.0                                                                                           |                 |                   |
| Software Version:                                                                                                                                                                                                                                                                                        | V1.0                                                                                           |                 |                   |
| Operating Frequency:                                                                                                                                                                                                                                                                                     | 2402MHz to 2480MHz                                                                             |                 |                   |
| Bluetooth version:                                                                                                                                                                                                                                                                                       | V5.4                                                                                           |                 |                   |
| Declared Antenna Power:                                                                                                                                                                                                                                                                                  | 1mW                                                                                            |                 |                   |
| Type of Modulation:                                                                                                                                                                                                                                                                                      | GFSK                                                                                           |                 |                   |
| Number of Channels:                                                                                                                                                                                                                                                                                      | 40 Channels                                                                                    |                 |                   |
| Antenna Type:                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated              |                 |                   |
| Antenna Gain*:                                                                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Provided by client                                         |                 |                   |
|                                                                                                                                                                                                                                                                                                          | 2.71dBi                                                                                        |                 |                   |
| RF Cable*:                                                                                                                                                                                                                                                                                               | <input checked="" type="checkbox"/> Provided by client                                         |                 |                   |
|                                                                                                                                                                                                                                                                                                          | 0.5dB(0.6~1GHz)                                                                                | 0.8dB(1.4~2GHz) | 1.0dB(2.1~2.7GHz) |
|                                                                                                                                                                                                                                                                                                          | 1.5dB(3~4GHz)                                                                                  | 1.8dB(4.4~6GHz) |                   |
| Power Supply (Charging Box):                                                                                                                                                                                                                                                                             | Input:DC 5V;DC 3.7V from rechargeable lithium-ion battery                                      |                 |                   |
| Power Supply (Earphone ):                                                                                                                                                                                                                                                                                | DC 3.7V from rechargeable lithium-ion battery                                                  |                 |                   |
| Note:                                                                                                                                                                                                                                                                                                    |                                                                                                |                 |                   |
| *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. |                                                                                                |                 |                   |



## 2.2 Description of Support Units

The EUT has been tested independently.

## 2.3 Test Location

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Company:       | Dongguan DN Testing Co., Ltd                                                                                |
| Address:       | No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang' an Town, Dongguan City, Guangdong P.R.China |
| Test engineer: | Gali Lin                                                                                                    |

**Remark:** Our test report is under the quality assurance system according to ISO17025.

- **FCC, USA**

Designation Number: CN1348

- **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

- **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.



## 2.4 Channel List

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

## 2.5 Test Environment and Mode

| Operating Environment: |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| Temperature:           | 20~25.0 °C                                                                               |
| Humidity:              | 45~56 % RH                                                                               |
| Atmospheric Pressure:  | 101.0~101.30 KPa                                                                         |
| Test mode:             |                                                                                          |
| Transmitting mode:     | Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate. |

## 2.6 Power Setting of Test Software

| Software Name  | FCC_assist1.0.4 |      |      |
|----------------|-----------------|------|------|
| Frequency(MHz) | 2402            | 2440 | 2480 |
| BLE 1M Setting | 10              | 10   | 10   |
| BLE 2M Setting | 10              | 10   | 10   |

## 2.7 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                                                                   | Measurement Uncertainty                     |
|-----|------------------------------------------------------------------------|---------------------------------------------|
| 1   | Frequency Error                                                        | ±1.9%                                       |
| 2   | Antenna Power                                                          | ±0.743dB                                    |
| 3   | Occupied Bandwidth                                                     | ±0.0196%                                    |
| 4   | Spread Bandwidth                                                       | ±0.0196%                                    |
| 5   | Transmitter Spurious Emission Strength and Unwanted Emission Intensity | 30MHz-1GHz:±0.746dB<br>1GHz-13GHz: ±1.328dB |



## 2.8 Equipment List

### For Connect EUT Antenna Terminal Test

| Description                  | Manufacturer | Model          | Serial Number | Cal date   | Due date   | correcting mechanism         |
|------------------------------|--------------|----------------|---------------|------------|------------|------------------------------|
| Signal Generator             | Keysight     | N5181A-6G      | MY48180415    | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| Signal Generator             | Keysight     | N5182B         | MY57300617    | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| Power supply                 | Keysight     | E3640A         | ZB2022656     | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| Radio Communication Tester   | R&S          | CMW500         | 105082        | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| Spectrum Analyzer            | Aglient      | N9010A         | MY52221458    | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| BT/WIFI Test Software        | Tonscend     | JS1120 V3.1.83 | NA            | NA         | NA         | NA                           |
| RF Control Unit              | Tonscend     | JS0806-2       | 22F8060581    | NA         | NA         | NA                           |
| Power Sensor                 | Anritsu      | ML2495A        | 2129005       | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| Pulse Power Sensor           | Anritsu      | MA2411B        | 1911397       | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| temperature and humidity box | SCOTEK       | SCD-C40-80PRO  | 6866682020008 | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |
| Voltmetre                    | FLUKE        | F15B PRO       | 59755315WS    | 2025-10-21 | 2026-10-20 | Dongguan DN Testing Co.,Ltd. |

#### Note:

1. Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.

☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.

☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.



### 3 Test Results

#### 3.1 Radio Technical Requirements Specification

**Table 1: Radio Technical Requirements Specification for 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2-1)**

| Items                                       | Technical standard                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assigned frequency or designated frequency  | 2400-2483.5MHz                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Communication method                        | One-way communication, simplex, semi-duplex, or duplex operation of digital signal transmission including spread spectrum                                                                                                                                                                                                                                                                                                          |
| Tolerance of frequency ( $\times 10^{-6}$ ) | $\leq \pm 50$ ppm                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tolerance of occupied bandwidth             | Others: 26MHz or less                                                                                                                                                                                                                                                                                                                                                                                                              |
| Antenna power                               | Others: $\leq 10$ mW<br>Tolerance: +20%                                                                                                                                                                                                                                                                                                                                                                                            |
| Antenna gain                                | 1) 12.14 dBi or less in principle<br>2) In case of directional antenna<br>(1) FH, FH+DS or FH+OFDM using 2427-2470.75 MHz<br>EIRP $\leq 16.91$ dBm/MHz<br>(2) OFDM or DS other than (1) EIRP $\leq 22.14$ dBm/MHz<br>(3) Other than (1) and (2): 22.14 dBm or less<br>(4) OFDM OBW 26 - 40MHz: 19.14dBm/MHz<br>(5) Half-power angle of directional antenna (e) in case of the item 2): $e \leq 360/A$<br>(The A is 10 in maximum.) |
| Tolerance of spurious emission intensity    | (< 2387 MHz: 2.5 $\mu$ W/MHz<br>2387 to 2400 MHz: 25 $\mu$ W/MHz<br>2483.5 through 2496.5 MHz: 25 $\mu$ W/MHz<br>> 2496.5 MHz: 2.5 $\mu$ W/MHz                                                                                                                                                                                                                                                                                     |
| Spreading bandwidth                         | DS, FH, FH+DS, FH+OFDM: 500kHz or more                                                                                                                                                                                                                                                                                                                                                                                             |
| Spreading rate of spectrum                  | For DS system; (Spreading bandwidth) / (Frequency corresponding to transmission rate) $\geq 5$                                                                                                                                                                                                                                                                                                                                     |
| Limit of secondary radiated emissions       | (1) Below 1 GHz: 4nW<br>(2) 1 GHz or higher: 20nW                                                                                                                                                                                                                                                                                                                                                                                  |
| Interference prevention function            | Shall have the function of automatic transmission and reception of identification sign.                                                                                                                                                                                                                                                                                                                                            |
| Structure                                   | Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.                                                                                                                                                                                                                                                                                                                            |
| Note                                        | DS: Direct spread<br>FH: Frequency hopping<br>OFDM: Orthogonal frequency division multiplexing                                                                                                                                                                                                                                                                                                                                     |

**3.2 E.U.T. test conditions**

|                          |                                                                                                                                                                                                                                                                                     |       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Power Supply:</b>     | High Voltage                                                                                                                                                                                                                                                                        | 4.07V |
|                          | Normal Voltage                                                                                                                                                                                                                                                                      | 3.7V  |
|                          | Low Voltage                                                                                                                                                                                                                                                                         | 3.33V |
| <b>Test Frequencies:</b> | If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies. |       |



### 3.3 Antenna Requirement

#### Standard requirement

Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

The antenna is integrated antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.71dBi.

**Result:** An antenna connector is available, all relevant tests will be carried out conducted.

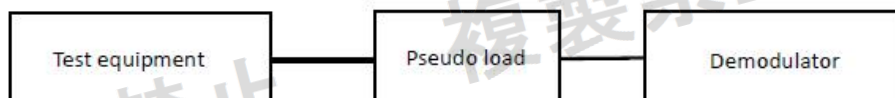


### 3.4 Interference prevention function

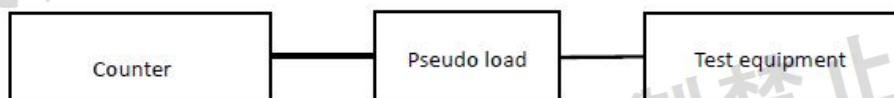
#### 1) Measurement system diagram

##### (a) When transmitting identification code

If an identification code is transmitted



An identification code is received



#### 2) Condition of measuring instrument

(b) 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.

#### 4) Measuring operation procedure

##### (a) 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.

7F:A3:DA:8D:86:04

#### 5) Test result: The unit does meet the requirements (Good).

PASS



### 3.5 RF accessibility

#### Standard requirement

Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

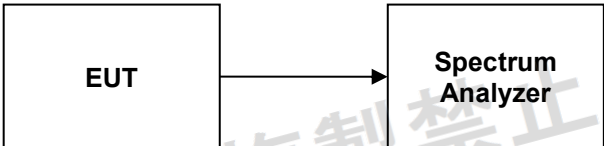
#### Test Result

RF and Modulation parts are mounted on PCB with surface mount technology





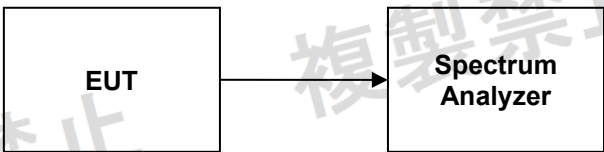
### 3.6 Frequency Error

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limit:                | Tolerance of frequency: $\pm 50 \times 10^{-6}$                                                                                                                                                                                                                                                                                                                                                                                |
| Text Method:          | MIC Notice No.88 Appendix No.43                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Status:          | Test the EUT in transmitting mode without modulation.                                                                                                                                                                                                                                                                                                                                                                          |
| Temperature:          | 23.5 °C                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Humidity:             | 47.1 % RH                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Atmospheric Pressure: | 101.0kPa -101.3 kPa                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Configuration:   |  <pre>graph LR; EUT[EUT] --&gt; SA[Spectrum Analyzer]</pre>                                                                                                                                                                                                                                                                                  |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. Test Conditions:<br/>Spectrum Analyzer is used for measurement.</li><li>2. EUT conditions:<br/>Modulation/Spread/Hopping OFF, CW Tx</li><li>3. Spectrum Analyzer conditions:<br/>Frequency: Test Frequency<br/>Span 1MHz<br/>RBW 10 kHz (Modulation OFF),<br/>VBW 10 kHz (Modulation OFF),<br/>Sweep Time Auto<br/>Detector mode Positive peak<br/>Indication mode Max hold</li></ol> |

Test Result See: Appendix A



### 3.7 Occupied Bandwidth (99%)

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limit:                | Other: 26 MHz or less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Text Method:          | MIC Notice No.88 Appendix No.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Status:          | Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.                                                                                                                                                                                                                               |
| Temperature:          | 23.5 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Humidity:             | 48.2 % RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Atmospheric Pressure: | 101.0kPa -101.3 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Configuration:   |  <pre>graph LR; EUT[EUT] --&gt; SA[Spectrum Analyzer]</pre>                                                                                                                                                                                                                                                                                                                                                                    |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. Test Conditions:<br/>Spectrum Analyzer is used for measurement.</li><li>2. EUT conditions:<br/>Modulation/Spread/Hopping ON<br/>For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.</li><li>3. Spectrum Analyzer conditions:<br/>Frequency: Test Frequency<br/>Span 4 MHz<br/>RBW 300 KHz<br/>VBW 300 KHz<br/>Sweep Time Auto<br/>detector mode Sample<br/>Indication mode Max hold<br/>OBW 99%</li></ol> |

Test Result See: Appendix B



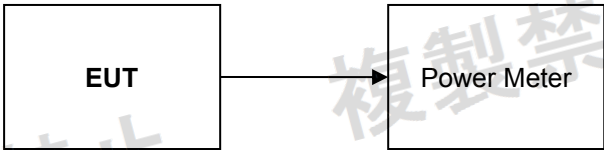
### 3.8 Spread Bandwidth(90%)

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limit:                | DS,FH, FH+DS,FH+OFDM: $\geq 500\text{KHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Text Method:          | MIC Notice No.88 Appendix No.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Status:          | Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.                                                                                                                                                                                                                      |
| Temperature:          | 23.5 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Humidity:             | 48.2 % RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Atmospheric Pressure: | 101.0kPa -101.3 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Configuration:   |  <pre>graph LR; EUT[EUT] --&gt; SA[Spectrum Analyzer]</pre>                                                                                                                                                                                                                                                                                                                                                           |
| Test Procedure:       | <ol style="list-style-type: none"><li>Test Conditions:<br/>Spectrum Analyzer is used for measurement.</li><li>EUT conditions:<br/>Modulation/Spread/Hopping ON<br/>For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.</li><li>Spectrum Analyzer conditions:<br/>Frequency: Test Frequency<br/>Span 4 MHz<br/>RBW 300 KHz<br/>VBW 300 KHz<br/>Sweep Time Auto<br/>detector mode Sample<br/>Indication mode Max hold<br/>OBW 90%</li></ol> |

**Test Result See:** Appendix C



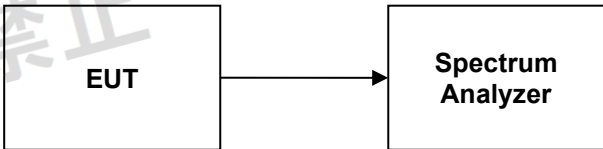
### 3.9 Antenna Power

|                       |                                                                                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limit:                | 10mW or less                                                                                                                                                                                                                                                                                                  |
| Text Method:          | MIC Notice No.88 Appendix No.43                                                                                                                                                                                                                                                                               |
| Test Status:          | Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.                            |
| Temperature:          | 23.5 °C                                                                                                                                                                                                                                                                                                       |
| Humidity:             | 50 % RH                                                                                                                                                                                                                                                                                                       |
| Atmospheric Pressure: | 101.0kPa -101.3 kPa                                                                                                                                                                                                                                                                                           |
| Test Configuration:   |  <pre>graph LR; EUT[EUT] --&gt; PM[Power Meter]</pre>                                                                                                                                                                       |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. Test Conditions:<br/>Power meter is used for measurement.</li><li>2. EUT conditions:<br/>Modulation/Spread/Hopping ON, Modulation Tx<br/>For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.</li></ol> |

**Test Result See:** Appendix D



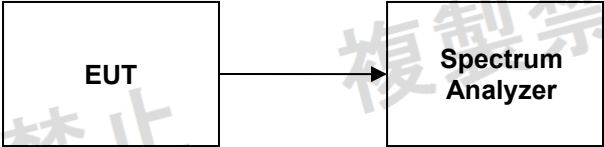
### 3.10 Spurious Emissions of Tx

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                  |                |                                 |                    |                                 |            |                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------|----------------|---------------------------------|--------------------|---------------------------------|------------|----------------------------------|
| Limit:                | <table><tr><td>&lt; 2387MHz</td><td><math>\leq 2.5\mu\text{W}/\text{MHz}</math></td></tr><tr><td>2387 ~ 2400MHz</td><td><math>\leq 25\mu\text{W}/\text{MHz}</math></td></tr><tr><td>2483.5 ~ 2496.5MHz</td><td><math>\leq 25\mu\text{W}/\text{MHz}</math></td></tr><tr><td>&gt;2496.5MHz</td><td><math>\leq 2.5\mu\text{W}/\text{MHz}</math></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | < 2387MHz | $\leq 2.5\mu\text{W}/\text{MHz}$ | 2387 ~ 2400MHz | $\leq 25\mu\text{W}/\text{MHz}$ | 2483.5 ~ 2496.5MHz | $\leq 25\mu\text{W}/\text{MHz}$ | >2496.5MHz | $\leq 2.5\mu\text{W}/\text{MHz}$ |
| < 2387MHz             | $\leq 2.5\mu\text{W}/\text{MHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                  |                |                                 |                    |                                 |            |                                  |
| 2387 ~ 2400MHz        | $\leq 25\mu\text{W}/\text{MHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                  |                |                                 |                    |                                 |            |                                  |
| 2483.5 ~ 2496.5MHz    | $\leq 25\mu\text{W}/\text{MHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                  |                |                                 |                    |                                 |            |                                  |
| >2496.5MHz            | $\leq 2.5\mu\text{W}/\text{MHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                  |                |                                 |                    |                                 |            |                                  |
| Text Method:          | MIC Notice No.88 Appendix No.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                  |                |                                 |                    |                                 |            |                                  |
| Test Status:          | Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                  |                |                                 |                    |                                 |            |                                  |
| Temperature:          | 23.5°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                  |                |                                 |                    |                                 |            |                                  |
| Humidity:             | 51 % RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                  |                |                                 |                    |                                 |            |                                  |
| Atmospheric Pressure: | 101.0kPa -101.3 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                  |                |                                 |                    |                                 |            |                                  |
| Test Configuration:   |  <pre>graph LR; EUT[EUT] --&gt; SA[Spectrum Analyzer]</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                  |                |                                 |                    |                                 |            |                                  |
| Test Procedure:       | <ol style="list-style-type: none"><li>Test Conditions:<br/>Spectrum Analyzer is used for measurement.</li><li>EUT conditions:<br/>Modulation/Spread/Hopping ON<br/>For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.</li><li>Spectrum Analyzer conditions:<br/>Step 1: All spurious are measured from 30 MHz to 13 GHz by peak mode.<br/>Step 2: IF the value measured by Step1 is 2 dB or less, measure in average mode.<br/>Test setup for Step 1:<br/>Frequency: 30MHz~2400MHz, 2483.5MHz~13GHz<br/>RBW 1 MHz<br/>VBW 1 MHz<br/>Sweep Time Auto<br/>detector mode Positive peak<br/>Indication mode Max hold<br/>Test setup for Step 2:<br/>Frequency: Spurious Frequency<br/>RBW 1 MHz<br/>VBW 1 MHz<br/>Sweep Time Auto<br/>detector mode Sample<br/>Indication mode Max hold</li></ol> |           |                                  |                |                                 |                    |                                 |            |                                  |

Test Result See: Appendix E



### 3.11 Spurious Emissions of Rx

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:     | MIC Notice No.88 Appendix No.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Limit:                | (1) Below 1 GHz: $\leq 4$ nW<br>(2) Above 1 GHz: $\leq 20$ nW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Status:          | Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Temperature:          | 23.5 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Humidity:             | 56 % RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Atmospheric Pressure: | 101.0kPa -101.3 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Configuration:   |  <pre>graph LR; EUT[EUT] --&gt; SA[Spectrum Analyzer]</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Procedure:       | <ol style="list-style-type: none"><li>1. Test Conditions:<br/>Spectrum Analyzer is used for measurement.</li><li>2. EUT conditions:<br/>Modulation/Spread/Hopping ON<br/>For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal</li><li>3. Spectrum Analyzer conditions:<br/>Step 1: All spurious are measured from 30 MHz to 13 GHz by peak mode.<br/>Step 2: IF the value measured by Step1 is 2 dB or less, measure in average mode.<br/>Test setup for Step 1:<br/>Frequency: 30 MHz – 1000 MHz , 1000 MHz –12.75 GHz<br/>RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz)<br/>VBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz)<br/>Sweep Time Auto<br/>detector mode Positive peak<br/>Indication mode Max hold<br/>Test setup for Step 2:<br/>Frequency: Spurious Frequency<br/>Span 0 Hz<br/>RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz)<br/>VBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz)<br/>Sweep Time Auto<br/>detector mode Sample<br/>Indication mode Max hold</li></ol> |

**Test Result See:** Appendix F



## 4 Appendix

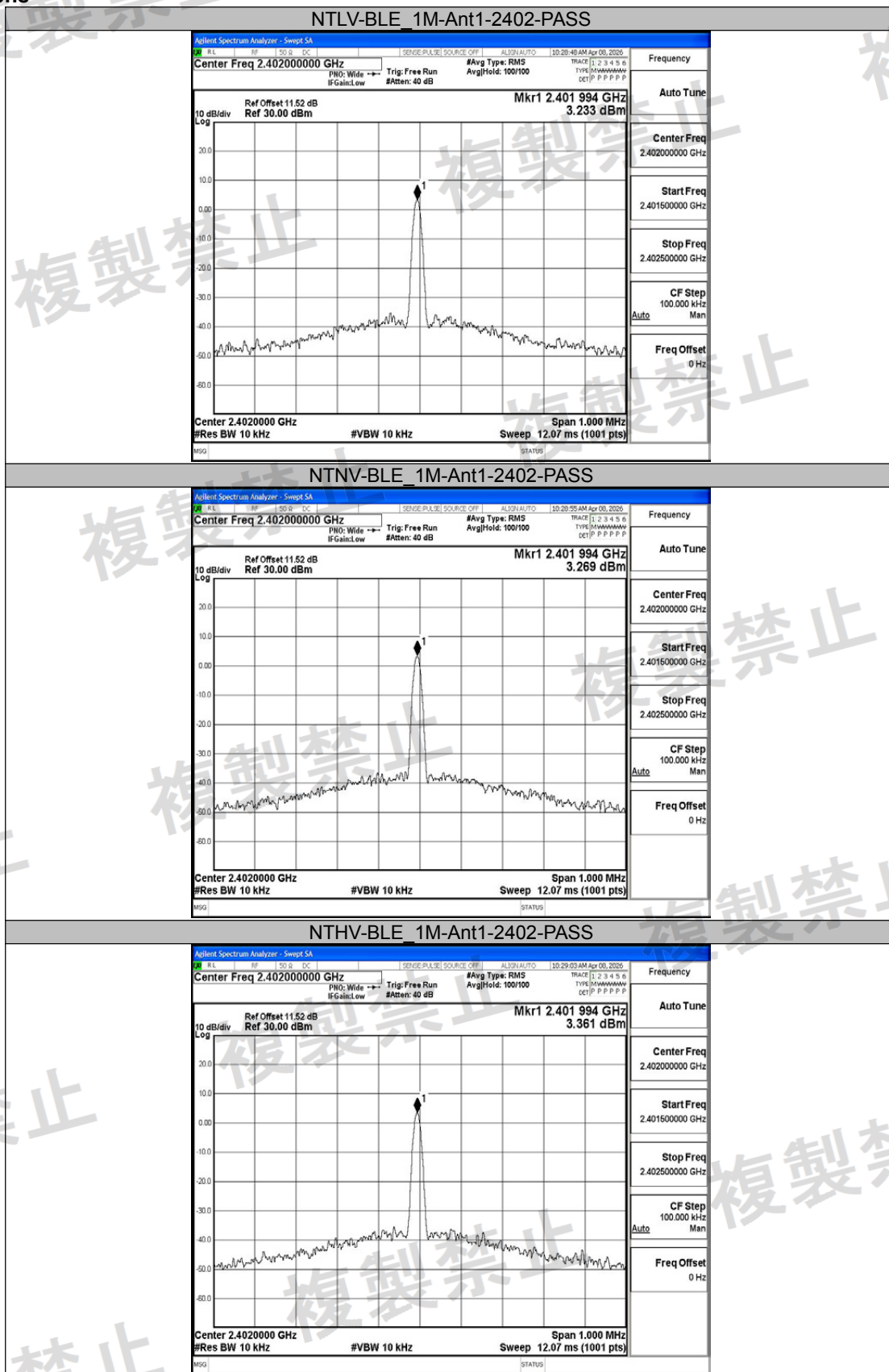
### Appendix A: Frequency Error

#### Test Result

| TestCondition | TestMode | Antenna | Freq(MHz) | CenterFreq [MHz] | Result[ppm] | Limit[ppm] | Verdict |
|---------------|----------|---------|-----------|------------------|-------------|------------|---------|
| NTLV          | BLE_1M   | Ant1    | 2402      | 2401.994         | -2.49792    | ±50        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402      | 2401.994         | -2.49792    | ±50        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402      | 2401.994         | -2.49792    | ±50        | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440      | 2439.993         | -2.86885    | ±50        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440      | 2439.993         | -2.86885    | ±50        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440      | 2439.993         | -2.86885    | ±50        | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480      | 2479.993         | -2.82258    | ±50        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480      | 2479.993         | -2.82258    | ±50        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480      | 2479.993         | -2.82258    | ±50        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402      | 2401.994         | -2.49792    | ±50        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402      | 2401.994         | -2.49792    | ±50        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402      | 2401.994         | -2.49792    | ±50        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440      | 2439.993         | -2.86885    | ±50        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440      | 2439.993         | -2.86885    | ±50        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440      | 2439.993         | -2.86885    | ±50        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480      | 2479.993         | -2.82258    | ±50        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480      | 2479.993         | -2.82258    | ±50        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480      | 2479.993         | -2.82258    | ±50        | PASS    |

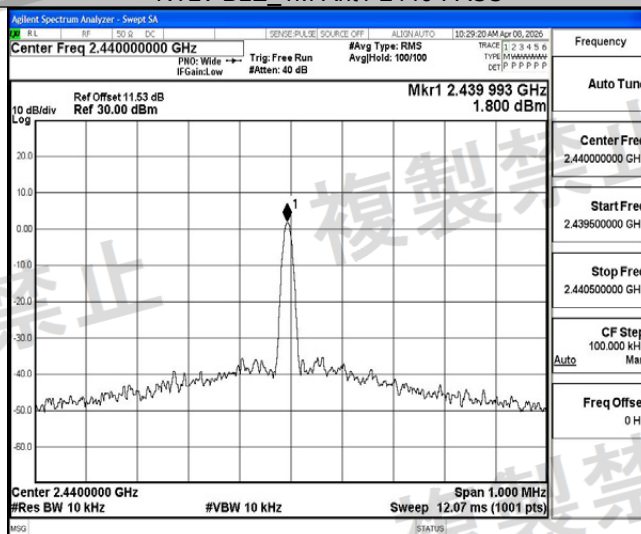


## Test Graphs

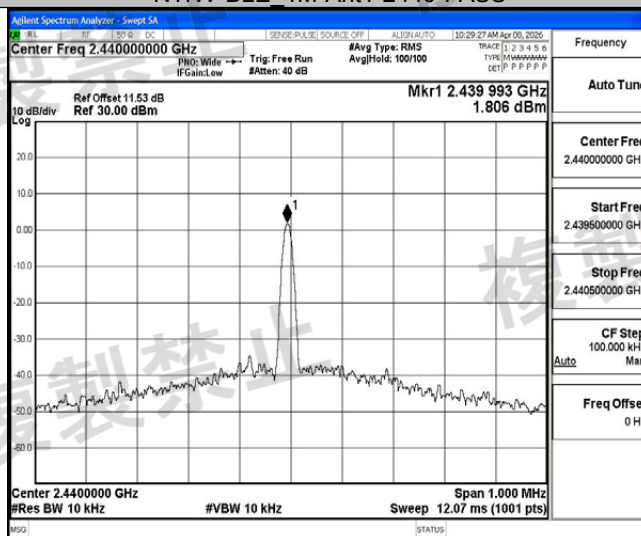




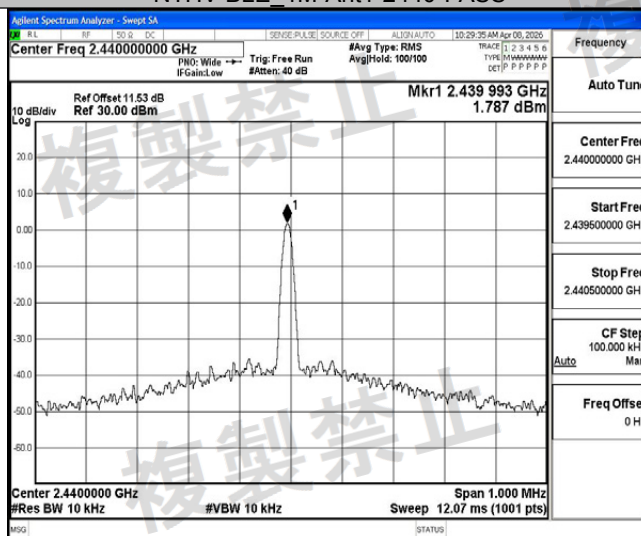
## NTLV-BLE\_1M-Ant1-2440-PASS



## NTNV-BLE\_1M-Ant1-2440-PASS

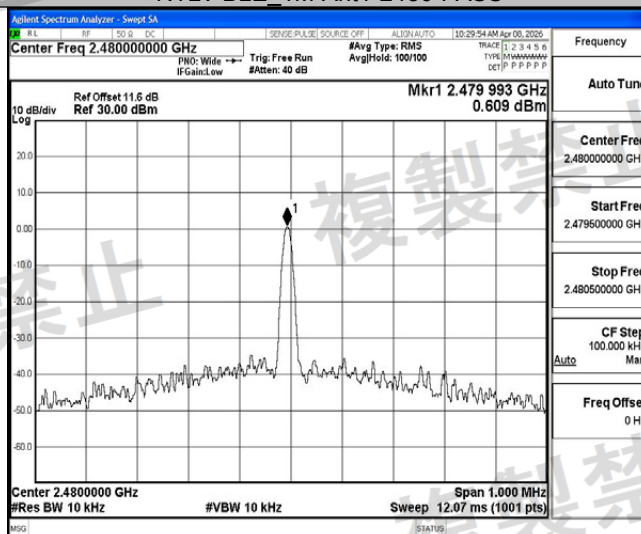


## NTHV-BLE\_1M-Ant1-2440-PASS

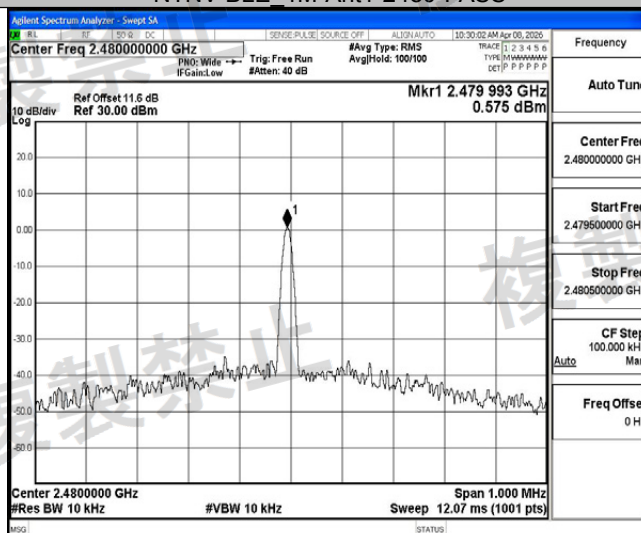




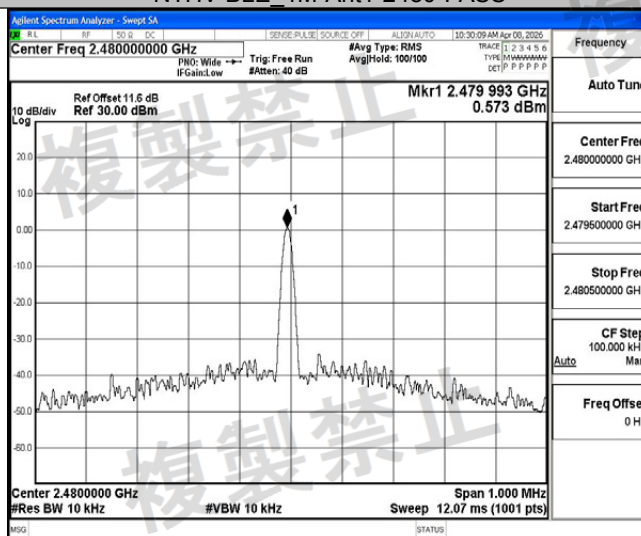
## NTLV-BLE\_1M-Ant1-2480-PASS



## NTNV-BLE\_1M-Ant1-2480-PASS

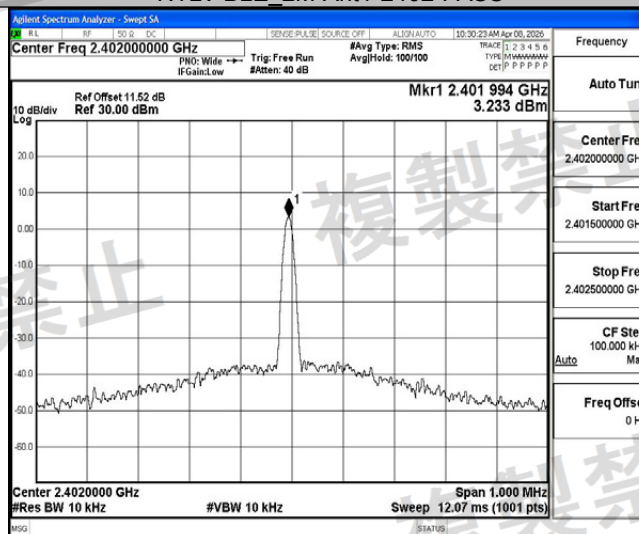


## NTHV-BLE\_1M-Ant1-2480-PASS

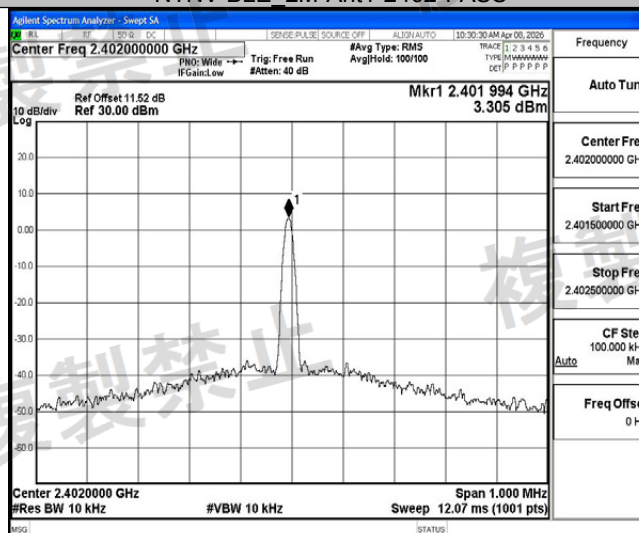




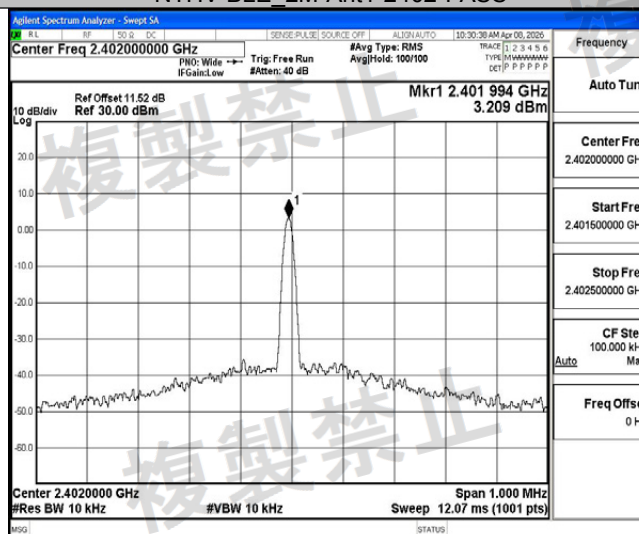
## NTLV-BLE 2M-Ant1-2402-PASS



## NTNV-BLE 2M-Ant1-2402-PASS

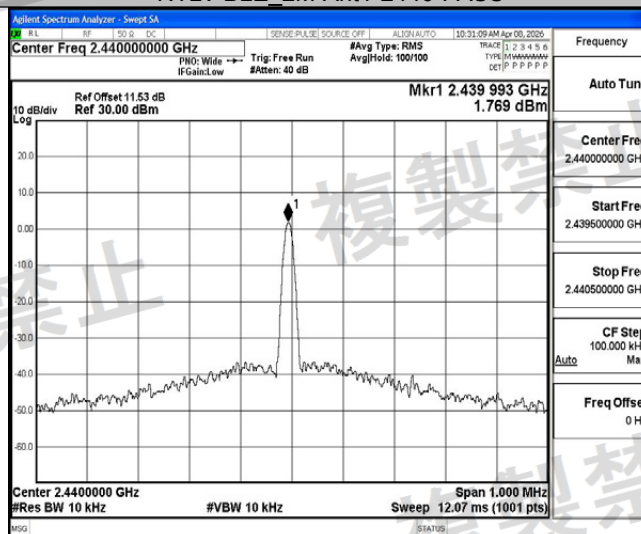


## NTHV-BLE 2M-Ant1-2402-PASS

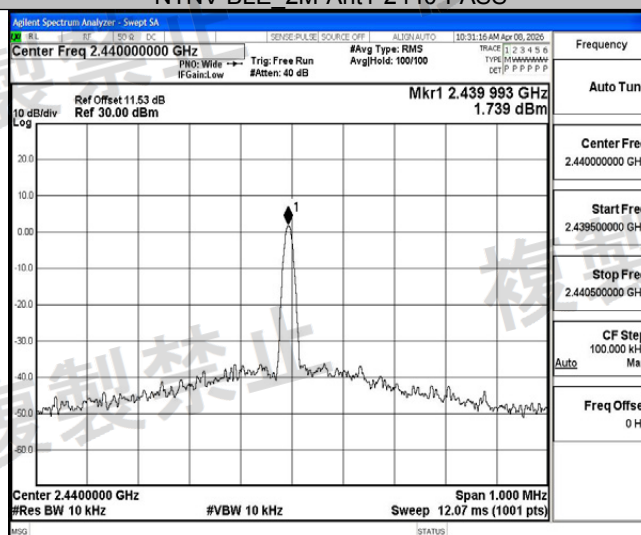




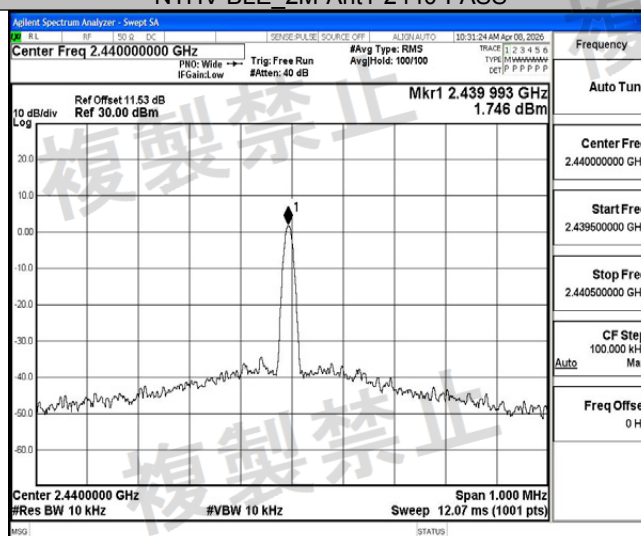
## NTLV-BLE 2M-Ant1-2440-PASS



## NTNV-BLE 2M-Ant1-2440-PASS

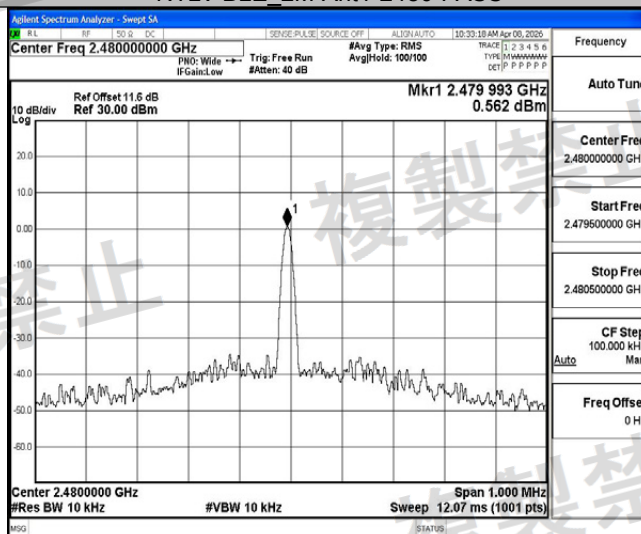


## NTHV-BLE 2M-Ant1-2440-PASS

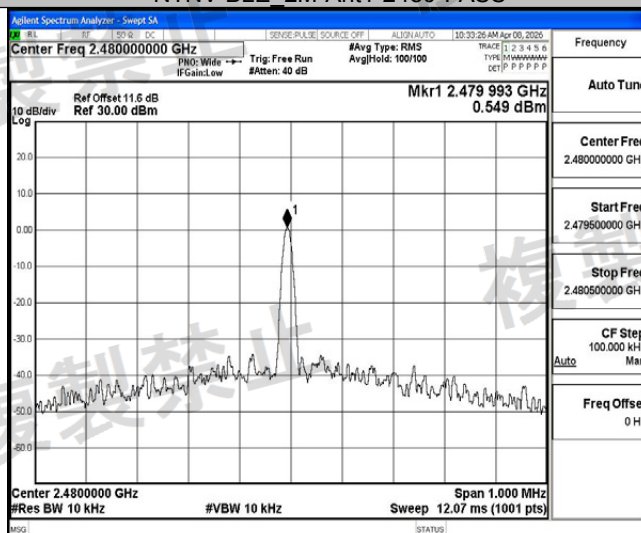




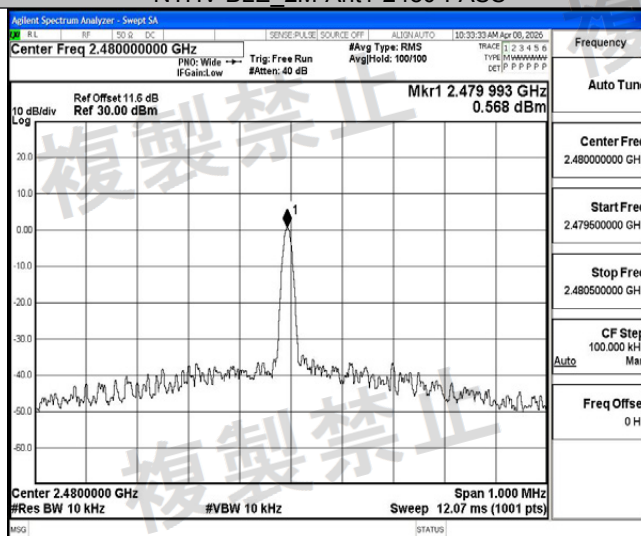
## NTLV-BLE\_2M-Ant1-2480-PASS



## NTNV-BLE\_2M-Ant1-2480-PASS



## NTHV-BLE\_2M-Ant1-2480-PASS



**Appendix B: Occupied Bandwidth****Test Result**

| TestCondition | TestMode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|---------------|----------|---------|-----------|--------------|-------------|---------|
| NTLV          | BLE_1M   | Ant1    | 2402      | 1.239        | ≤26         | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402      | 1.245        | ≤26         | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402      | 1.247        | ≤26         | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440      | 1.244        | ≤26         | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440      | 1.242        | ≤26         | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440      | 1.245        | ≤26         | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480      | 1.253        | ≤26         | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480      | 1.254        | ≤26         | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480      | 1.251        | ≤26         | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402      | 2.138        | ≤26         | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402      | 2.140        | ≤26         | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402      | 2.152        | ≤26         | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440      | 2.188        | ≤26         | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440      | 2.171        | ≤26         | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440      | 2.205        | ≤26         | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480      | 2.139        | ≤26         | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480      | 2.173        | ≤26         | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480      | 2.146        | ≤26         | PASS    |

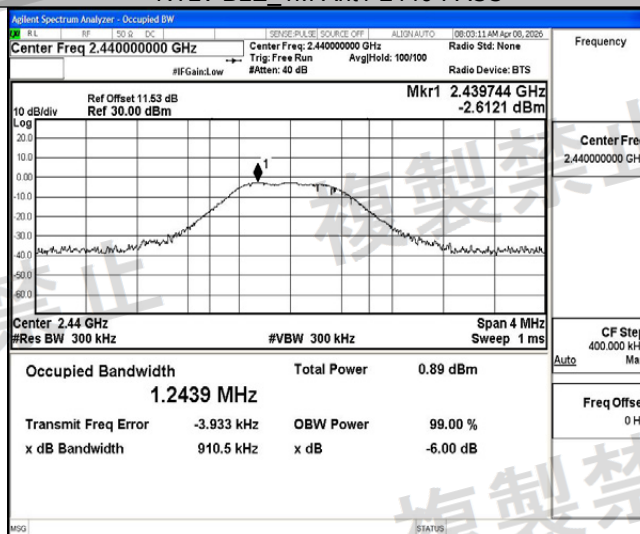


## Test Graphs

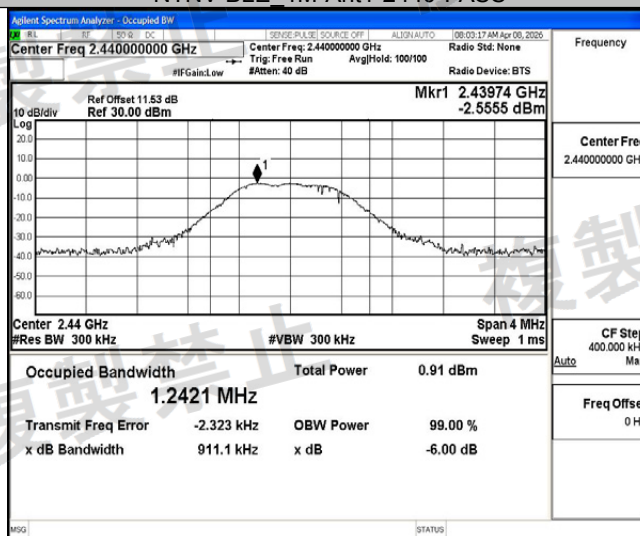




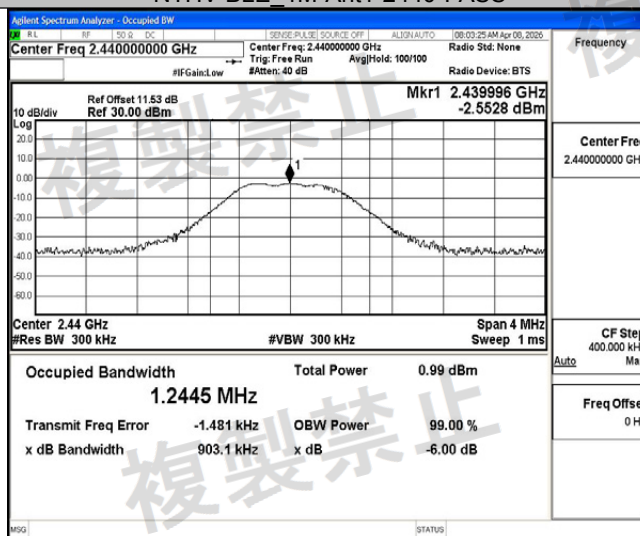
## NTLV-BLE\_1M-Ant1-2440-PASS



## NTNV-BLE\_1M-Ant1-2440-PASS

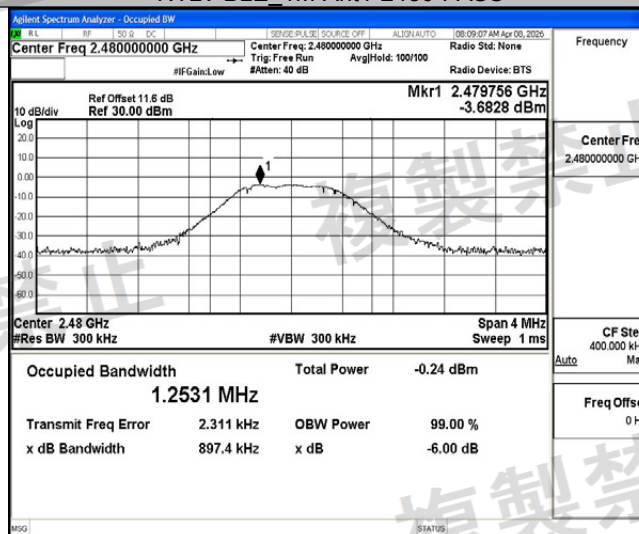


## NTHV-BLE\_1M-Ant1-2440-PASS

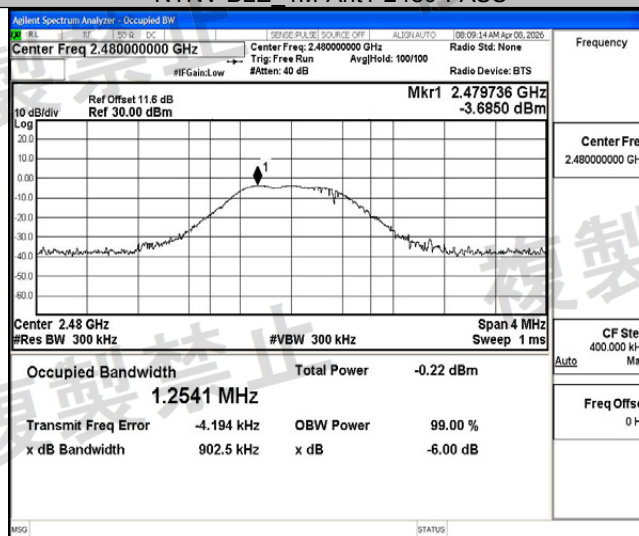




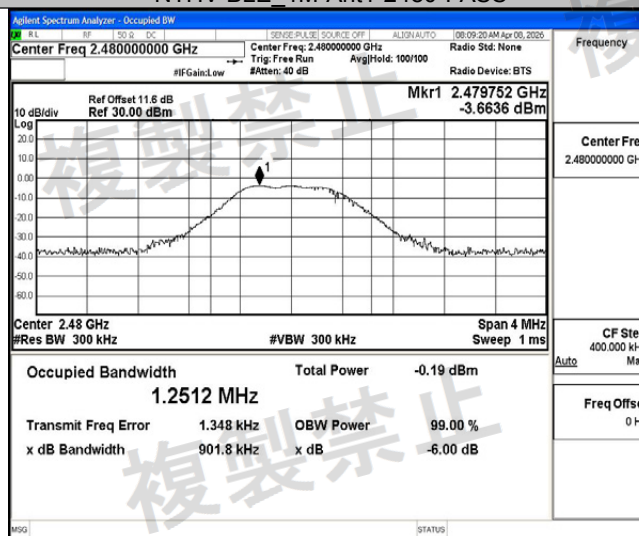
## NTLV-BLE\_1M-Ant1-2480-PASS



## NTNV-BLE\_1M-Ant1-2480-PASS

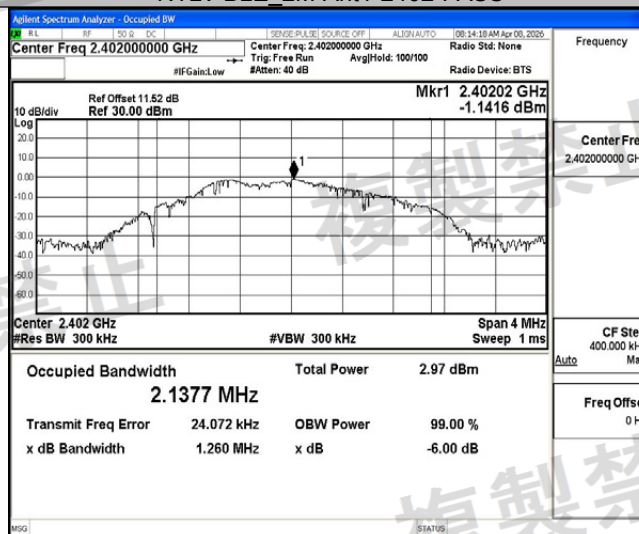


## NTHV-BLE\_1M-Ant1-2480-PASS

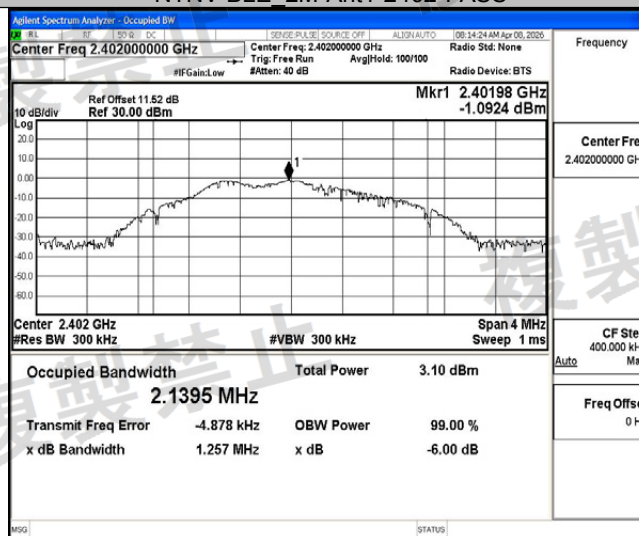




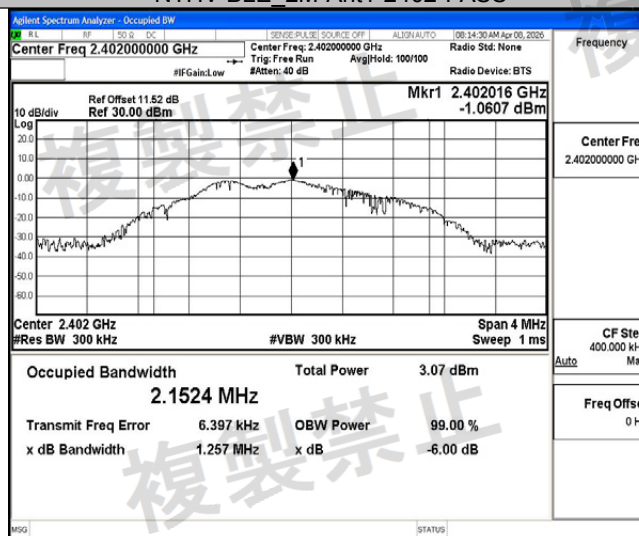
## NTLV-BLE 2M-Ant1-2402-PASS



## NTNV-BLE 2M-Ant1-2402-PASS

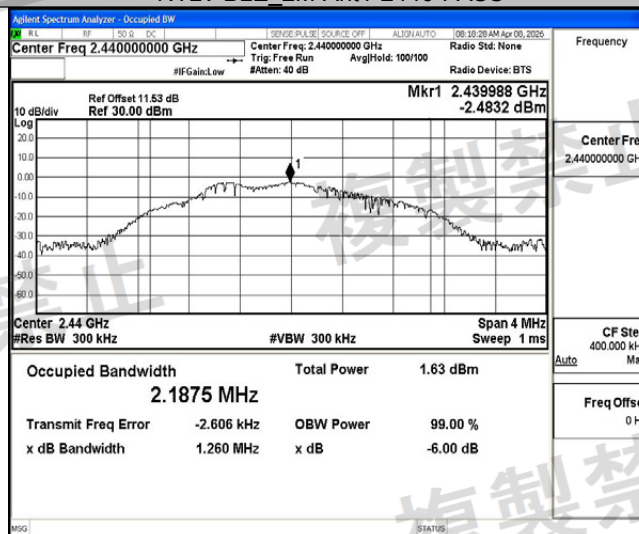


## NTHV-BLE 2M-Ant1-2402-PASS

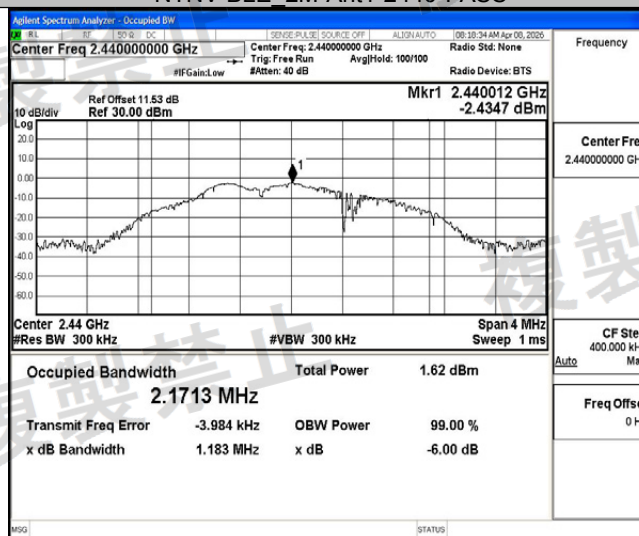




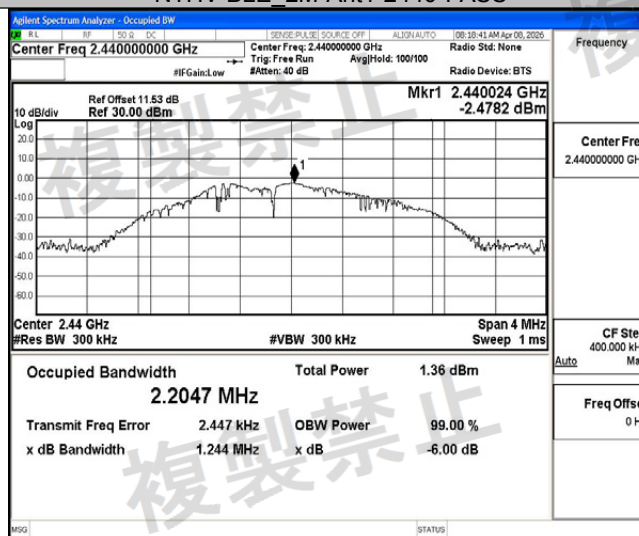
## NTLV-BLE 2M-Ant1-2440-PASS



## NTNV-BLE 2M-Ant1-2440-PASS

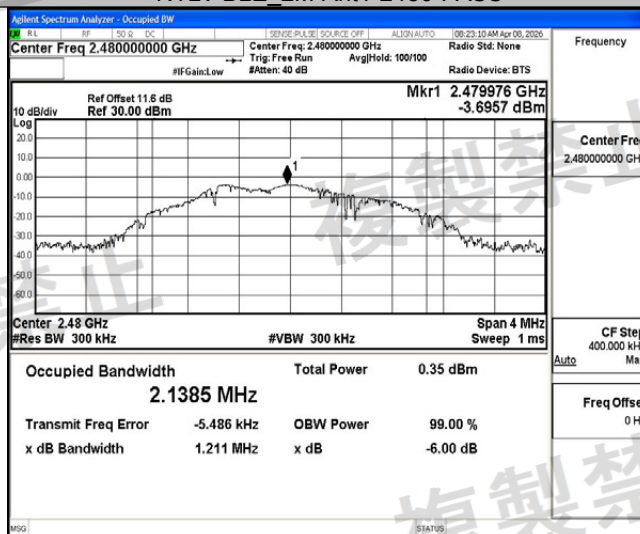


## NTHV-BLE 2M-Ant1-2440-PASS

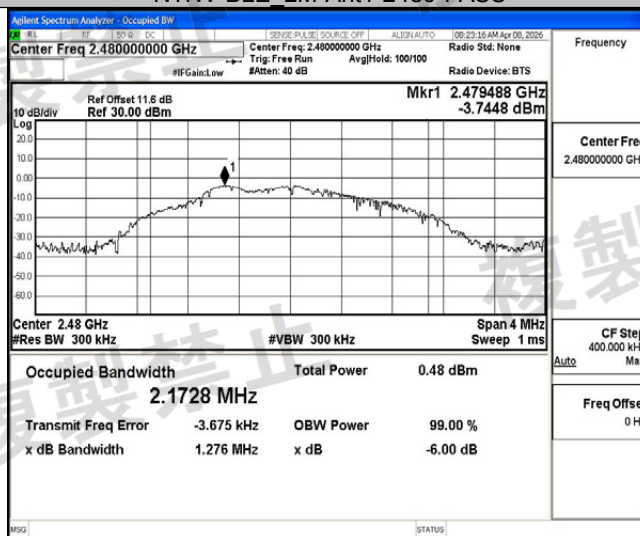




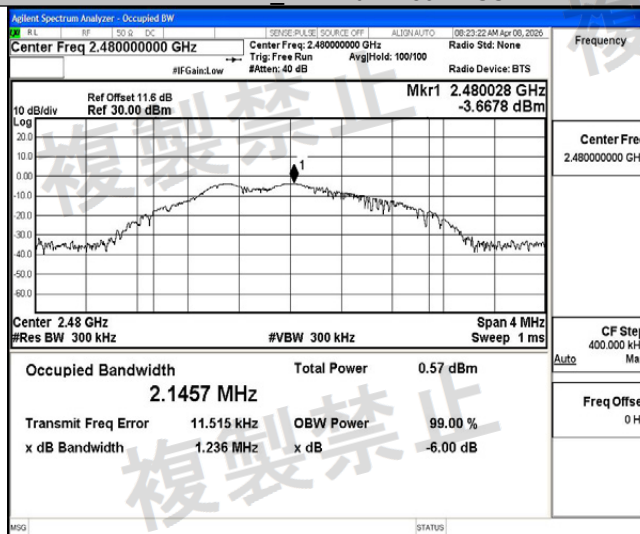
## NTLV-BLE 2M-Ant1-2480-PASS



## NTNV-BLE 2M-Ant1-2480-PASS



## NTHV-BLE 2M-Ant1-2480-PASS



**Appendix C: Spread Bandwidth****Test Result**

| TestCondition | TestMode | Antenna | Freq(MHz) | Result [MHz] | Limit [MHz] | Verdict |
|---------------|----------|---------|-----------|--------------|-------------|---------|
| NTLV          | BLE_1M   | Ant1    | 2402      | 0.814        | ≥0.5        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402      | 0.818        | ≥0.5        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402      | 0.813        | ≥0.5        | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440      | 0.810        | ≥0.5        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440      | 0.813        | ≥0.5        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440      | 0.808        | ≥0.5        | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480      | 0.808        | ≥0.5        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480      | 0.817        | ≥0.5        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480      | 0.818        | ≥0.5        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402      | 1.365        | ≥0.5        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402      | 1.334        | ≥0.5        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402      | 1.341        | ≥0.5        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440      | 1.354        | ≥0.5        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440      | 1.338        | ≥0.5        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440      | 1.386        | ≥0.5        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480      | 1.392        | ≥0.5        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480      | 1.331        | ≥0.5        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480      | 1.316        | ≥0.5        | PASS    |

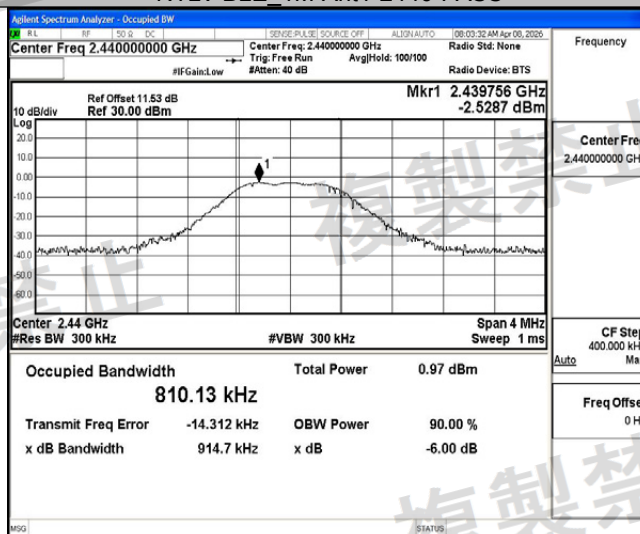


## Test Graphs

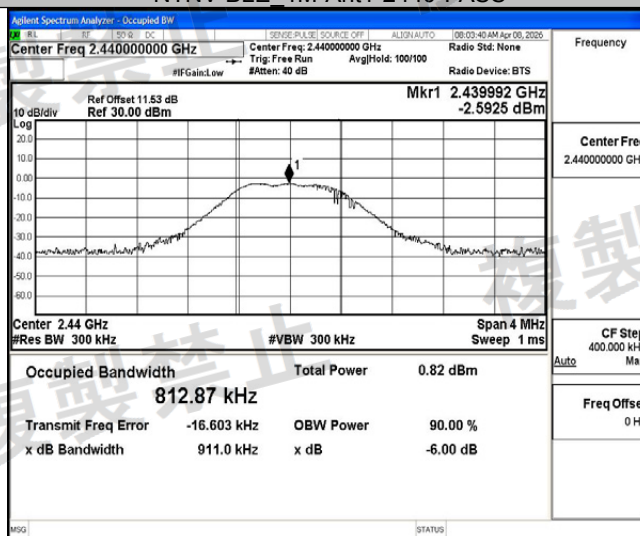




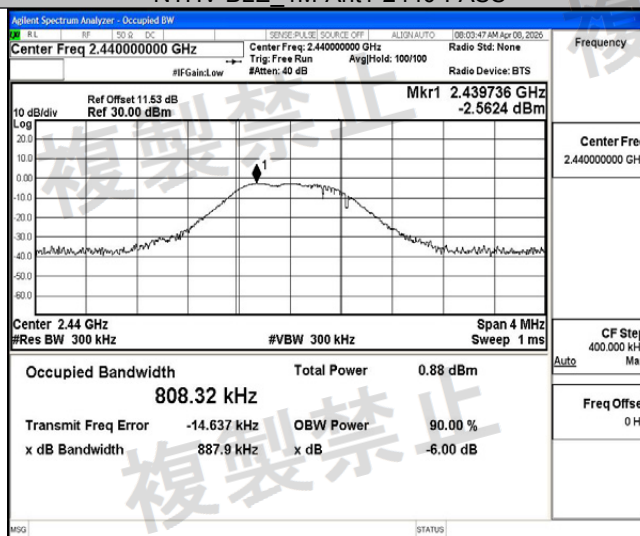
## NTLV-BLE\_1M-Ant1-2440-PASS



## NTNV-BLE\_1M-Ant1-2440-PASS

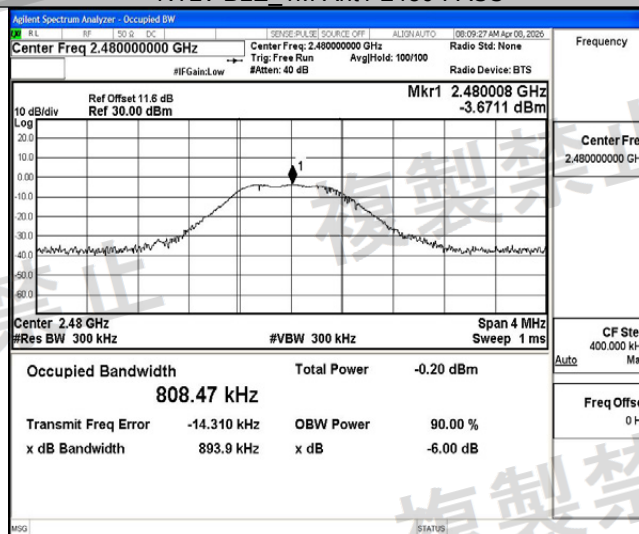


## NTHV-BLE\_1M-Ant1-2440-PASS

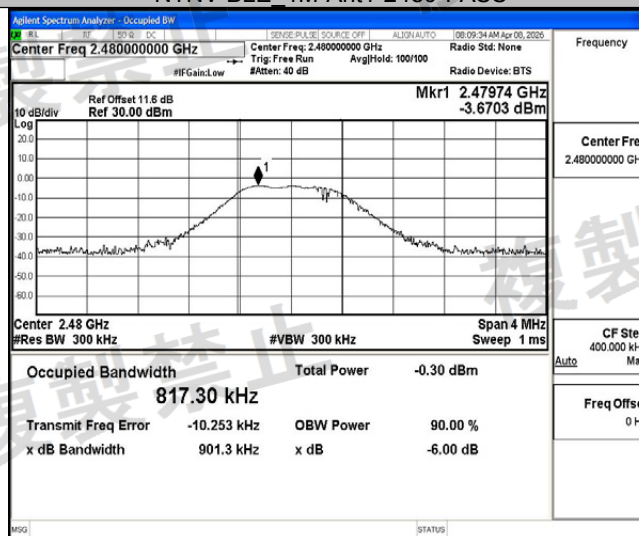




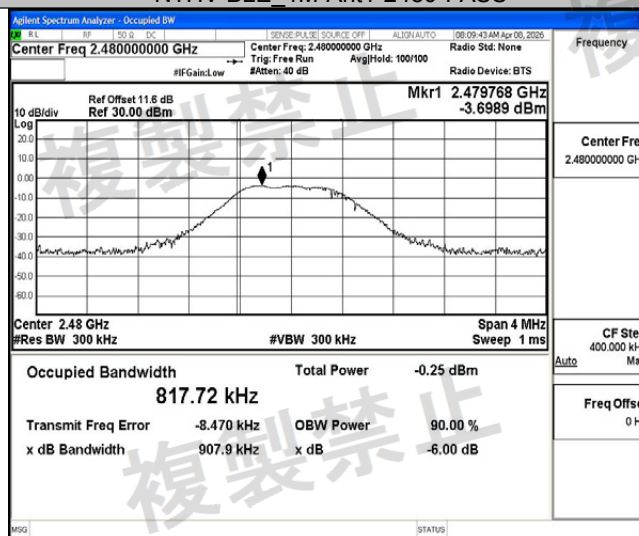
## NTLV-BLE\_1M-Ant1-2480-PASS



## NTNV-BLE\_1M-Ant1-2480-PASS

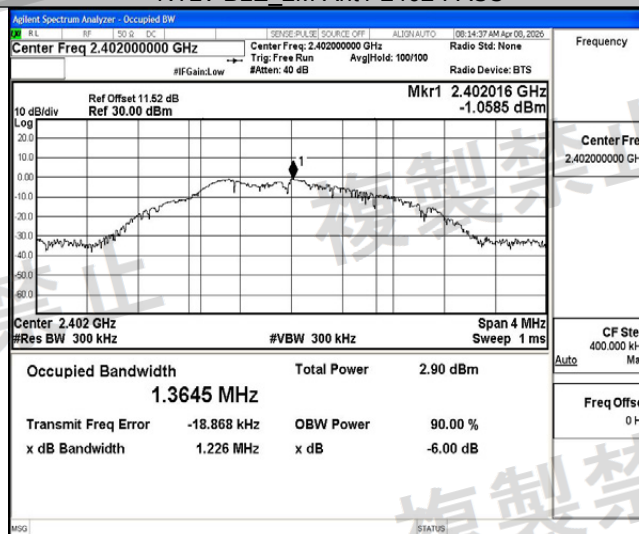


## NTHV-BLE\_1M-Ant1-2480-PASS

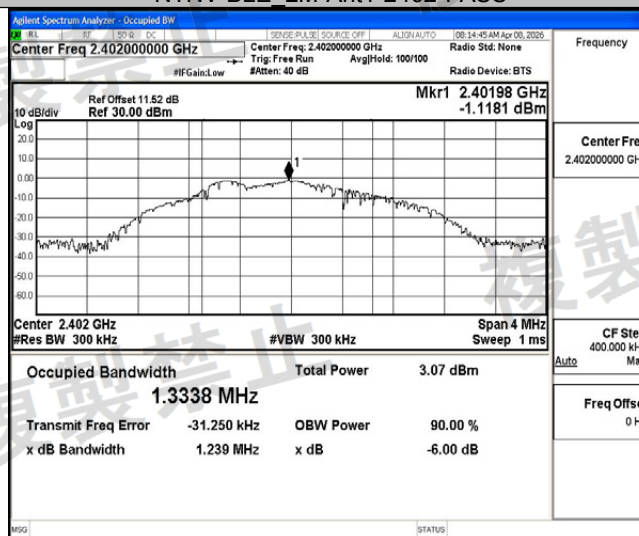




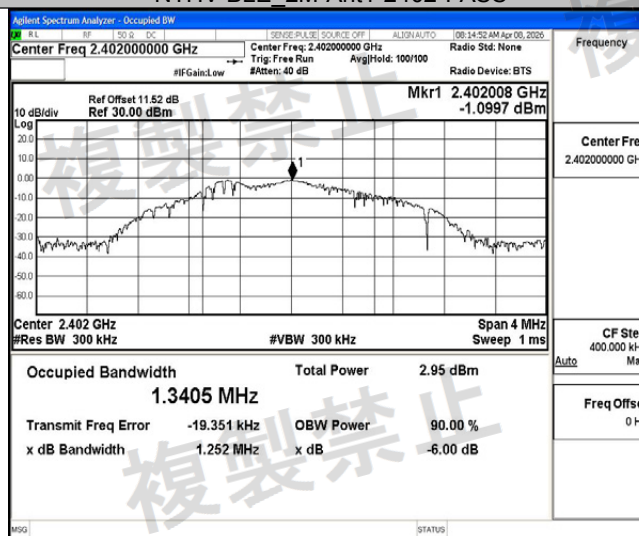
## NTLV-BLE\_2M-Ant1-2402-PASS



## NTNV-BLE\_2M-Ant1-2402-PASS

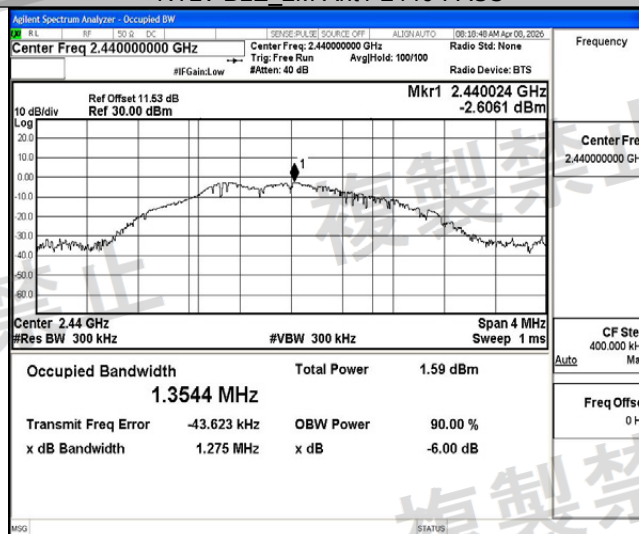


## NTHV-BLE\_2M-Ant1-2402-PASS

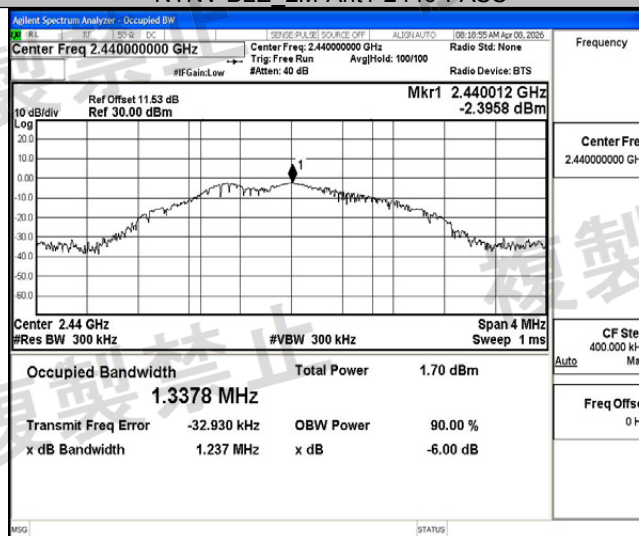




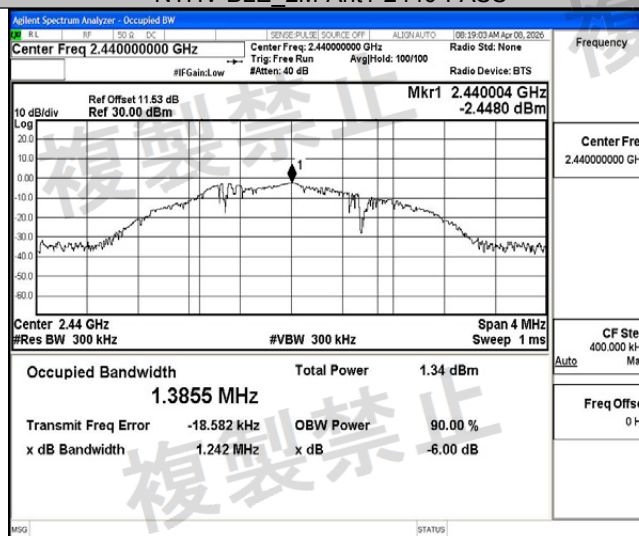
## NTLV-BLE 2M-Ant1-2440-PASS



## NTNV-BLE 2M-Ant1-2440-PASS

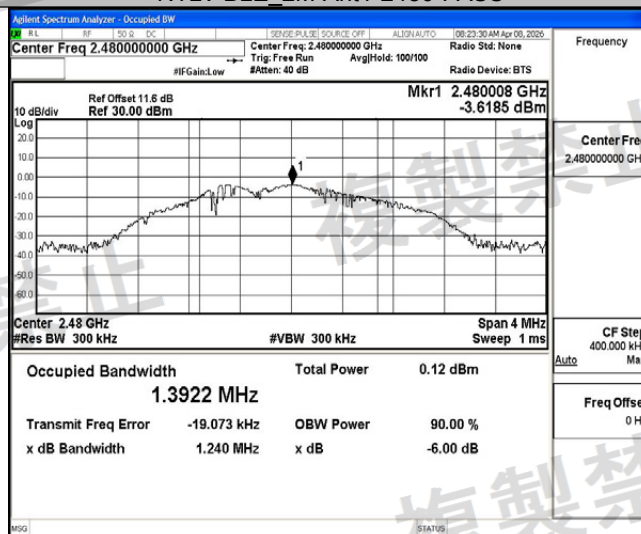


## NTHV-BLE 2M-Ant1-2440-PASS

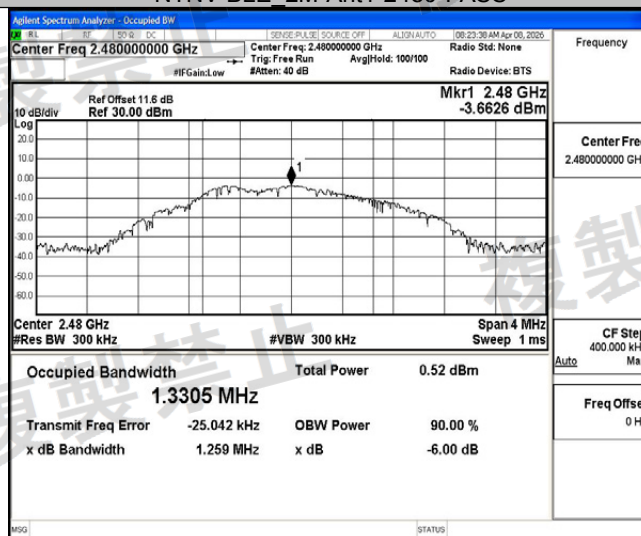




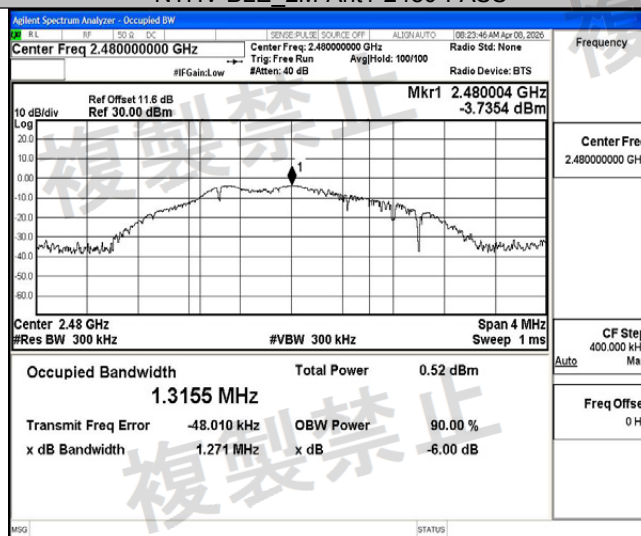
## NTLV-BLE\_2M-Ant1-2480-PASS



## NTNV-BLE\_2M-Ant1-2480-PASS



## NTHV-BLE\_2M-Ant1-2480-PASS



**Appendix D: Antenna Power****Test Result**

| Antenna Power |          |         |           |             |            |           |         |
|---------------|----------|---------|-----------|-------------|------------|-----------|---------|
| TestCondition | TestMode | Antenna | Freq(MHz) | Result(dBm) | Result(mW) | Limit(mW) | Verdict |
| NTLV          | BLE_1M   | Ant1    | 2402      | -2.46       | 0.5675     | ≤10       | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402      | -2.41       | 0.5741     | ≤10       | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402      | -2.21       | 0.6012     | ≤10       | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440      | -3.38       | 0.4592     | ≤10       | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440      | -3.26       | 0.4721     | ≤10       | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440      | -3.48       | 0.4487     | ≤10       | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480      | -4.50       | 0.3548     | ≤10       | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480      | -4.61       | 0.3459     | ≤10       | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480      | -4.61       | 0.3459     | ≤10       | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402      | -2.51       | 0.5610     | ≤10       | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402      | -2.40       | 0.5754     | ≤10       | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402      | -2.38       | 0.5781     | ≤10       | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440      | -3.74       | 0.4227     | ≤10       | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440      | -3.74       | 0.4227     | ≤10       | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440      | -4.58       | 0.3483     | ≤10       | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480      | -5.03       | 0.3141     | ≤10       | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480      | -5.06       | 0.3119     | ≤10       | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480      | -5.11       | 0.3083     | ≤10       | PASS    |

| Tolerance      |           |         |           |            |                 |            |           |         |
|----------------|-----------|---------|-----------|------------|-----------------|------------|-----------|---------|
| Test Condition | Test Mode | Antenna | Freq(MHz) | Power (mW) | RatedPower (mW) | Result (%) | Limit (%) | Verdict |
| NTLV           | BLE_1M    | Ant1    | 2402      | 0.5675     | 1               | -43.25     | +20       | PASS    |
| NTNV           | BLE_1M    | Ant1    | 2402      | 0.5741     | 1               | -42.59     | +20       | PASS    |
| NTHV           | BLE_1M    | Ant1    | 2402      | 0.6012     | 1               | -39.88     | +20       | PASS    |
| NTLV           | BLE_1M    | Ant1    | 2440      | 0.4592     | 1               | -54.08     | +20       | PASS    |
| NTNV           | BLE_1M    | Ant1    | 2440      | 0.4721     | 1               | -52.79     | +20       | PASS    |
| NTHV           | BLE_1M    | Ant1    | 2440      | 0.4487     | 1               | -55.13     | +20       | PASS    |
| NTLV           | BLE_1M    | Ant1    | 2480      | 0.3548     | 1               | -64.52     | +20       | PASS    |
| NTNV           | BLE_1M    | Ant1    | 2480      | 0.3459     | 1               | -65.41     | +20       | PASS    |
| NTHV           | BLE_1M    | Ant1    | 2480      | 0.3459     | 1               | -65.41     | +20       | PASS    |
| NTLV           | BLE_2M    | Ant1    | 2402      | 0.5610     | 1               | -43.90     | +20       | PASS    |
| NTNV           | BLE_2M    | Ant1    | 2402      | 0.5754     | 1               | -42.46     | +20       | PASS    |
| NTHV           | BLE_2M    | Ant1    | 2402      | 0.5781     | 1               | -42.19     | +20       | PASS    |
| NTLV           | BLE_2M    | Ant1    | 2440      | 0.4227     | 1               | -57.73     | +20       | PASS    |
| NTNV           | BLE_2M    | Ant1    | 2440      | 0.4227     | 1               | -57.73     | +20       | PASS    |
| NTHV           | BLE_2M    | Ant1    | 2440      | 0.3483     | 1               | -65.17     | +20       | PASS    |
| NTLV           | BLE_2M    | Ant1    | 2480      | 0.3141     | 1               | -68.59     | +20       | PASS    |
| NTNV           | BLE_2M    | Ant1    | 2480      | 0.3119     | 1               | -68.81     | +20       | PASS    |
| NTHV           | BLE_2M    | Ant1    | 2480      | 0.3083     | 1               | -69.17     | +20       | PASS    |



| EIRP          |          |         |            |             |            |           |            |         |
|---------------|----------|---------|------------|-------------|------------|-----------|------------|---------|
| TestCondition | TestMode | Antenna | Freq(M Hz) | Result(dBm) | Gain (dBi) | EIRP(dBm) | Limit(dBm) | Verdict |
| NTLV          | BLE_1M   | Ant1    | 2402       | -2.46       | 2.71       | 0.25      | ≤12.14     | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402       | -2.41       | 2.71       | 0.30      | ≤12.14     | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402       | -2.21       | 2.71       | 0.50      | ≤12.14     | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440       | -3.38       | 2.71       | -0.67     | ≤12.14     | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440       | -3.26       | 2.71       | -0.55     | ≤12.14     | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440       | -3.48       | 2.71       | -0.77     | ≤12.14     | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480       | -4.50       | 2.71       | -1.79     | ≤12.14     | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480       | -4.61       | 2.71       | -1.90     | ≤12.14     | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480       | -4.61       | 2.71       | -1.90     | ≤12.14     | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402       | -2.51       | 2.71       | 0.20      | ≤12.14     | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402       | -2.40       | 2.71       | 0.31      | ≤12.14     | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402       | -2.38       | 2.71       | 0.33      | ≤12.14     | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440       | -3.74       | 2.71       | -1.03     | ≤12.14     | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440       | -3.74       | 2.71       | -1.03     | ≤12.14     | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440       | -4.58       | 2.71       | -1.87     | ≤12.14     | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480       | -5.03       | 2.71       | -2.32     | ≤12.14     | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480       | -5.06       | 2.71       | -2.35     | ≤12.14     | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480       | -5.11       | 2.71       | -2.40     | ≤12.14     | PASS    |

**Appendix E: Spurious Emission of TX****Test Result**

| TestCondition | TestMode | Antenna | Freq(M Hz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [ $\mu$ W/MHz] | Limit [ $\mu$ W/MHz] | Verdict         |
|---------------|----------|---------|------------|------------------|-------------|--------------|-------------|-----------------------|----------------------|-----------------|
| NTLV          | BLE_1M   | Ant1    | 2402       | 30~1000          | 83.84       | -36.90       | $\leq -26$  | 0.20417               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2402       | 30~1000          | 86.99       | -36.33       | $\leq -26$  | 0.23281               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2402       | 30~1000          | 87.23       | -36.75       | $\leq -26$  | 0.21135               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2402       | 1000~2387        | 1924.09     | -32.12       | $\leq -26$  | 0.61376               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2402       | 1000~2387        | 1925.13     | -33.96       | $\leq -26$  | 0.40179               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2402       | 1000~2387        | 1922.70     | -35.86       | $\leq -26$  | 0.25942               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2402       | 2387~2400        | 2399.94     | -33.88       | $\leq -16$  | 0.40926               | $\leq 25$            | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2402       | 2387~2400        | 2399.98     | -33.62       | $\leq -16$  | 0.43451               | $\leq 25$            | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2402       | 2387~2400        | 2399.95     | -33.23       | $\leq -16$  | 0.47534               | $\leq 25$            | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2402       | 2483.5~2496.5    | 2487.25     | -37.93       | $\leq -16$  | 0.16106               | $\leq 25$            | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2402       | 2483.5~2496.5    | 2495.88     | -37.91       | $\leq -16$  | 0.16181               | $\leq 25$            | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2402       | 2483.5~2496.5    | 2488.48     | -37.45       | $\leq -16$  | 0.17989               | $\leq 25$            | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2402       | 2496.5~13000     | 5295.68     | -43.35       | $\leq -26$  | 0.04624               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2402       | 2496.5~13000     | 4872.92     | -42.95       | $\leq -26$  | 0.05070               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2402       | 2496.5~13000     | 4855.06     | -43.19       | $\leq -26$  | 0.04797               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2440       | 30~1000          | 87.47       | -36.88       | $\leq -26$  | 0.20512               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2440       | 30~1000          | 87.72       | -37.31       | $\leq -26$  | 0.18578               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2440       | 30~1000          | 87.96       | -38.65       | $\leq -26$  | 0.13646               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2440       | 1000~2387        | 1921.31     | -26.14       | $\leq -26$  | 2.43220               | $\leq 2.5$           | See table below |
| NTNV          | BLE_1M   | Ant1    | 2440       | 1000~2387        | 1939.35     | -43.38       | $\leq -26$  | 0.04592               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2440       | 1000~2387        | 1932.41     | -29.50       | $\leq -26$  | 1.12202               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2440       | 2387~2400        | 2392.28     | -37.71       | $\leq -16$  | 0.16943               | $\leq 25$            | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2440       | 2387~2400        | 2399.39     | -37.31       | $\leq -16$  | 0.18578               | $\leq 25$            | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2440       | 2387~2400        | 2390.67     | -37.32       | $\leq -16$  | 0.18535               | $\leq 25$            | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2440       | 2483.5~2496.5    | 2494.46     | -37.38       | $\leq -16$  | 0.18281               | $\leq 25$            | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2440       | 2483.5~2496.5    | 2495.99     | -37.81       | $\leq -16$  | 0.16558               | $\leq 25$            | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2440       | 2483.5~2496.5    | 2491.19     | -37.73       | $\leq -16$  | 0.16866               | $\leq 25$            | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2440       | 2496.5~13000     | 4850.86     | -42.48       | $\leq -26$  | 0.05649               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2440       | 2496.5~13000     | 4866.09     | -43.81       | $\leq -26$  | 0.04159               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2440       | 2496.5~13000     | 2623.59     | -40.11       | $\leq -26$  | 0.09750               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2480       | 30~1000          | 86.26       | -37.48       | $\leq -26$  | 0.17865               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2480       | 30~1000          | 85.53       | -35.45       | $\leq -26$  | 0.28510               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2480       | 30~1000          | 86.50       | -36.72       | $\leq -26$  | 0.21281               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2480       | 1000~2387        | 2379.72     | -46.33       | $\leq -26$  | 0.02328               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2480       | 1000~2387        | 1939.00     | -30.93       | $\leq -26$  | 0.80724               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2480       | 1000~2387        | 1922.36     | -27.89       | $\leq -26$  | 1.62555               | $\leq 2.5$           | See table below |
| NTLV          | BLE_1M   | Ant1    | 2480       | 2387~2400        | 2394.58     | -37.56       | $\leq -16$  | 0.17539               | $\leq 25$            | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2480       | 2387~2400        | 2389.96     | -37.57       | $\leq -16$  | 0.17498               | $\leq 25$            | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2480       | 2387~2400        | 2388.18     | -38.00       | $\leq -16$  | 0.15849               | $\leq 25$            | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2480       | 2483.5~2496.5    | 2492.42     | -37.21       | $\leq -16$  | 0.19011               | $\leq 25$            | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2480       | 2483.5~2496.5    | 2488.95     | -37.43       | $\leq -16$  | 0.18072               | $\leq 25$            | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2480       | 2483.5~2496.5    | 2487.52     | -37.59       | $\leq -16$  | 0.17418               | $\leq 25$            | PASS            |
| NTLV          | BLE_1M   | Ant1    | 2480       | 2496.5~13000     | 3644.53     | -43.47       | $\leq -26$  | 0.04498               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_1M   | Ant1    | 2480       | 2496.5~13000     | 3666.59     | -43.36       | $\leq -26$  | 0.04613               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_1M   | Ant1    | 2480       | 2496.5~13000     | 3640.86     | -43.11       | $\leq -26$  | 0.04887               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_2M   | Ant1    | 2402       | 30~1000          | 87.23       | -37.43       | $\leq -26$  | 0.18072               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_2M   | Ant1    | 2402       | 30~1000          | 85.53       | -35.73       | $\leq -26$  | 0.26730               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_2M   | Ant1    | 2402       | 30~1000          | 87.47       | -36.39       | $\leq -26$  | 0.22961               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_2M   | Ant1    | 2402       | 1000~2387        | 1920.27     | -46.69       | $\leq -26$  | 0.02143               | $\leq 2.5$           | PASS            |
| NTNV          | BLE_2M   | Ant1    | 2402       | 1000~2387        | 1920.97     | -30.91       | $\leq -26$  | 0.81096               | $\leq 2.5$           | PASS            |
| NTHV          | BLE_2M   | Ant1    | 2402       | 1000~2387        | 1922.01     | -41.04       | $\leq -26$  | 0.07870               | $\leq 2.5$           | PASS            |
| NTLV          | BLE_2M   | Ant1    | 2402       | 2387~2400        | 2400.00     | -23.27       | $\leq -16$  | 4.70977               | $\leq 25$            | PASS            |
| NTNV          | BLE_2M   | Ant1    | 2402       | 2387~2400        | 2399.99     | -23.10       | $\leq -16$  | 4.89779               | $\leq 25$            | PASS            |
| NTHV          | BLE_2M   | Ant1    | 2402       | 2387~2400        | 2399.99     | -23.12       | $\leq -16$  | 4.87528               | $\leq 25$            | PASS            |
| NTLV          | BLE_2M   | Ant1    | 2402       | 2483.5~2496.5    | 2487.93     | -37.27       | $\leq -16$  | 0.18750               | $\leq 25$            | PASS            |

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E-mail: [service@dn-testing.com](mailto:service@dn-testing.com)



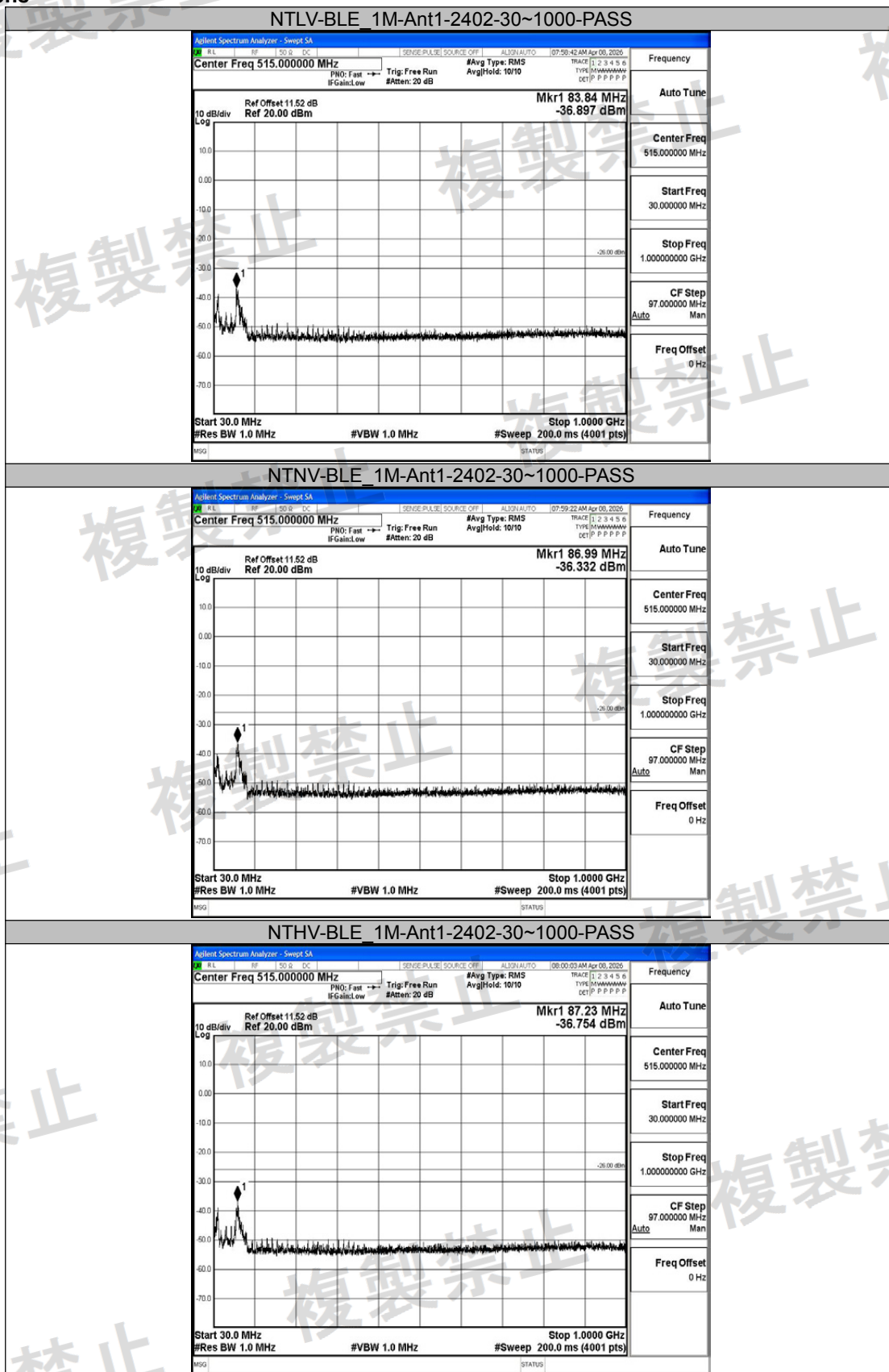
|      |        |      |      |               |         |        |      |              |      |                 |
|------|--------|------|------|---------------|---------|--------|------|--------------|------|-----------------|
| NTNV | BLE_2M | Ant1 | 2402 | 2483.5~2496.5 | 2496.42 | -37.68 | ≤-16 | 0.17061      | ≤25  | PASS            |
| NTHV | BLE_2M | Ant1 | 2402 | 2483.5~2496.5 | 2489.75 | -37.46 | ≤-16 | 0.17947      | ≤25  | PASS            |
| NTLV | BLE_2M | Ant1 | 2402 | 2496.5~13000  | 3628.78 | -43.24 | ≤-26 | 0.04742      | ≤2.5 | PASS            |
| NTNV | BLE_2M | Ant1 | 2402 | 2496.5~13000  | 3617.22 | -42.67 | ≤-26 | 0.05408      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2402 | 2496.5~13000  | 5185.40 | -40.12 | ≤-26 | 0.09727      | ≤2.5 | PASS            |
| NTLV | BLE_2M | Ant1 | 2440 | 30~1000       | 87.47   | -38.81 | ≤-26 | 0.13152      | ≤2.5 | PASS            |
| NTNV | BLE_2M | Ant1 | 2440 | 30~1000       | 87.23   | -38.57 | ≤-26 | 0.13900      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2440 | 30~1000       | 88.20   | -37.17 | ≤-26 | 0.19187      | ≤2.5 | PASS            |
| NTLV | BLE_2M | Ant1 | 2440 | 1000~2387     | 1927.9  | -19.51 | ≤-26 | 11.1943<br>8 | ≤2.5 | See table below |
| NTNV | BLE_2M | Ant1 | 2440 | 1000~2387     | 1711.88 | -45.83 | ≤-26 | 0.02612      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2440 | 1000~2387     | 2325.63 | -47.31 | ≤-26 | 0.01858      | ≤2.5 | PASS            |
| NTLV | BLE_2M | Ant1 | 2440 | 2387~2400     | 2392.64 | -36.59 | ≤-16 | 0.21928      | ≤25  | PASS            |
| NTNV | BLE_2M | Ant1 | 2440 | 2387~2400     | 2398.46 | -37.28 | ≤-16 | 0.18707      | ≤25  | PASS            |
| NTHV | BLE_2M | Ant1 | 2440 | 2387~2400     | 2391.36 | -37.86 | ≤-16 | 0.16368      | ≤25  | PASS            |
| NTLV | BLE_2M | Ant1 | 2440 | 2483.5~2496.5 | 2494.35 | -37.46 | ≤-16 | 0.17947      | ≤25  | PASS            |
| NTNV | BLE_2M | Ant1 | 2440 | 2483.5~2496.5 | 2491.29 | -37.70 | ≤-16 | 0.16982      | ≤25  | PASS            |
| NTHV | BLE_2M | Ant1 | 2440 | 2483.5~2496.5 | 2484.35 | -37.74 | ≤-16 | 0.16827      | ≤25  | PASS            |
| NTLV | BLE_2M | Ant1 | 2440 | 2496.5~13000  | 3654.51 | -43.79 | ≤-26 | 0.04178      | ≤2.5 | PASS            |
| NTNV | BLE_2M | Ant1 | 2440 | 2496.5~13000  | 3619.32 | -43.36 | ≤-26 | 0.04613      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2440 | 2496.5~13000  | 4840.88 | -42.69 | ≤-26 | 0.05383      | ≤2.5 | PASS            |
| NTLV | BLE_2M | Ant1 | 2480 | 30~1000       | 86.26   | -38.92 | ≤-26 | 0.12823      | ≤2.5 | PASS            |
| NTNV | BLE_2M | Ant1 | 2480 | 30~1000       | 88.69   | -35.08 | ≤-26 | 0.31046      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2480 | 30~1000       | 87.23   | -35.86 | ≤-26 | 0.25942      | ≤2.5 | PASS            |
| NTLV | BLE_2M | Ant1 | 2480 | 1000~2387     | 2376.94 | -46.42 | ≤-26 | 0.02280      | ≤2.5 | PASS            |
| NTNV | BLE_2M | Ant1 | 2480 | 1000~2387     | 2343.31 | -47.06 | ≤-26 | 0.01968      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2480 | 1000~2387     | 2294.07 | -46.63 | ≤-26 | 0.02173      | ≤2.5 | PASS            |
| NTLV | BLE_2M | Ant1 | 2480 | 2387~2400     | 2396.09 | -37.55 | ≤-16 | 0.17579      | ≤25  | PASS            |
| NTNV | BLE_2M | Ant1 | 2480 | 2387~2400     | 2398.31 | -37.63 | ≤-16 | 0.17258      | ≤25  | PASS            |
| NTHV | BLE_2M | Ant1 | 2480 | 2387~2400     | 2389.93 | -37.47 | ≤-16 | 0.17906      | ≤25  | PASS            |
| NTLV | BLE_2M | Ant1 | 2480 | 2483.5~2496.5 | 2485.21 | -37.09 | ≤-16 | 0.19543      | ≤25  | PASS            |
| NTNV | BLE_2M | Ant1 | 2480 | 2483.5~2496.5 | 2486.02 | -37.39 | ≤-16 | 0.18239      | ≤25  | PASS            |
| NTHV | BLE_2M | Ant1 | 2480 | 2483.5~2496.5 | 2485.46 | -36.24 | ≤-16 | 0.23768      | ≤25  | PASS            |
| NTLV | BLE_2M | Ant1 | 2480 | 2496.5~13000  | 4870.29 | -43.56 | ≤-26 | 0.04406      | ≤2.5 | PASS            |
| NTNV | BLE_2M | Ant1 | 2480 | 2496.5~13000  | 3612.50 | -43.76 | ≤-26 | 0.04207      | ≤2.5 | PASS            |
| NTHV | BLE_2M | Ant1 | 2480 | 2496.5~13000  | 4841.93 | -42.84 | ≤-26 | 0.05200      | ≤2.5 | PASS            |

## Test Result\_Step2

| TestCondition | TestMode | Antenna | Freq(M Hz) | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [μW/MHz] | Limit [μW/MHz] | Verdict |
|---------------|----------|---------|------------|-------------|--------------|-------------|-----------------|----------------|---------|
| NTLV          | BLE_1M   | Ant1    | 2440       | 1921.31     | -33.82       | ≤-26        | 0.41495         | ≤2.5           | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480       | 1922.36     | -31.17       | ≤-26        | 0.76384         | ≤2.5           | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440       | 1927.90     | -35.79       | ≤-26        | 0.26363         | ≤2.5           | PASS    |

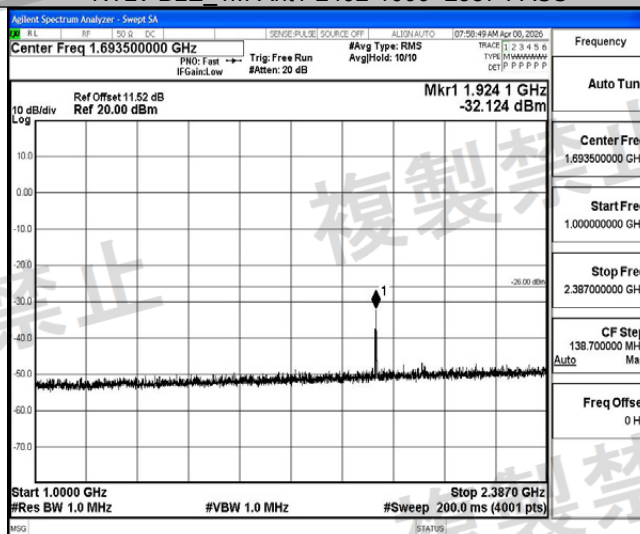


## Test Graphs

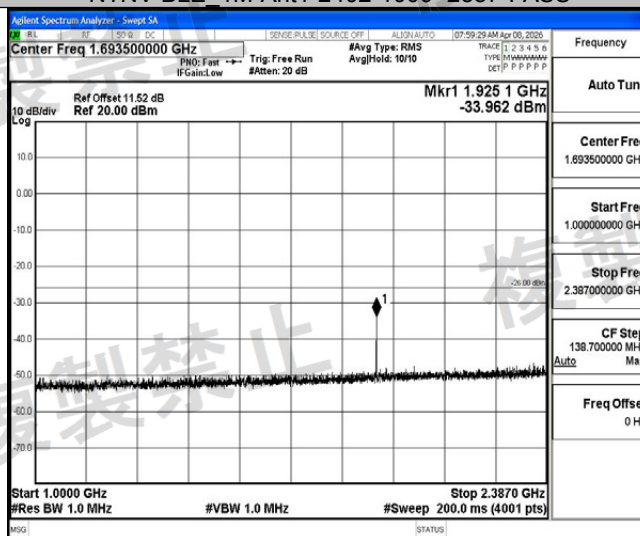




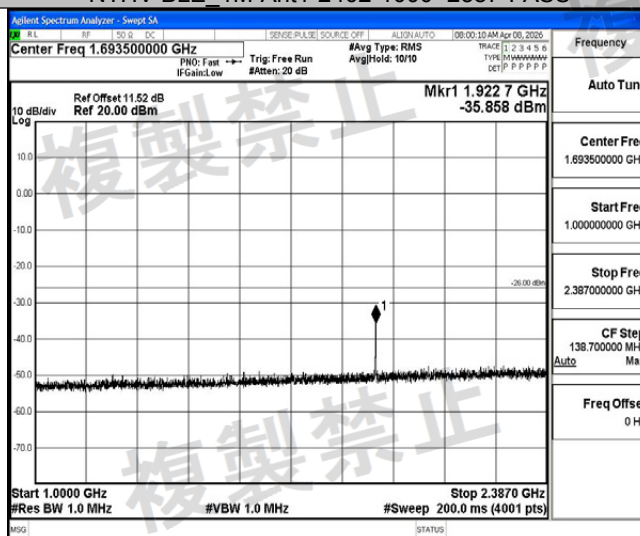
## NTLV-BLE 1M-Ant1-2402-1000~2387-PASS



## NTNV-BLE 1M-Ant1-2402-1000~2387-PASS

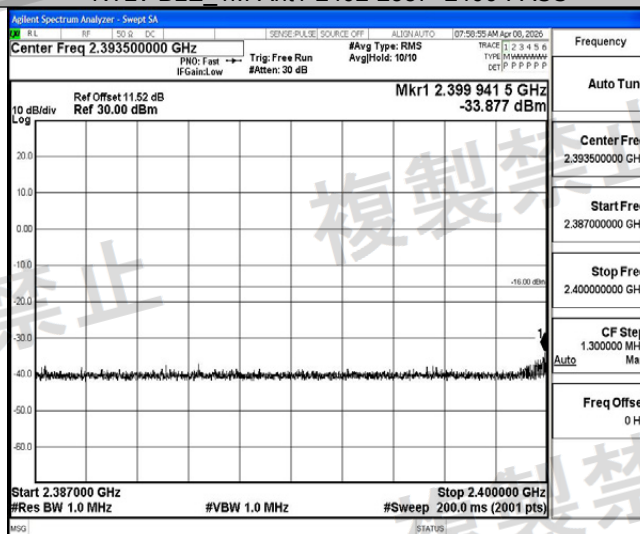


## NTHV-BLE 1M-Ant1-2402-1000~2387-PASS

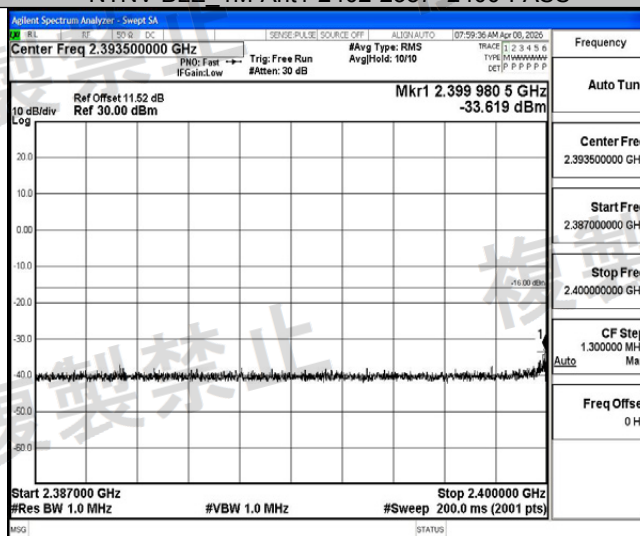




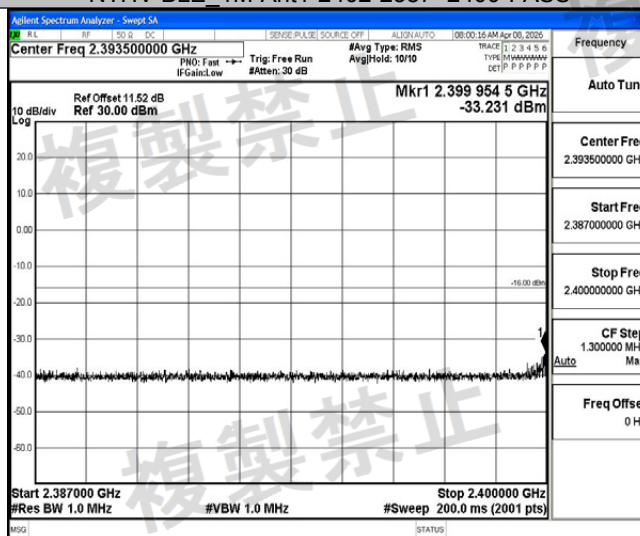
## NTLV-BLE 1M-Ant1-2402-2387~2400-PASS



## NTNV-BLE 1M-Ant1-2402-2387~2400-PASS

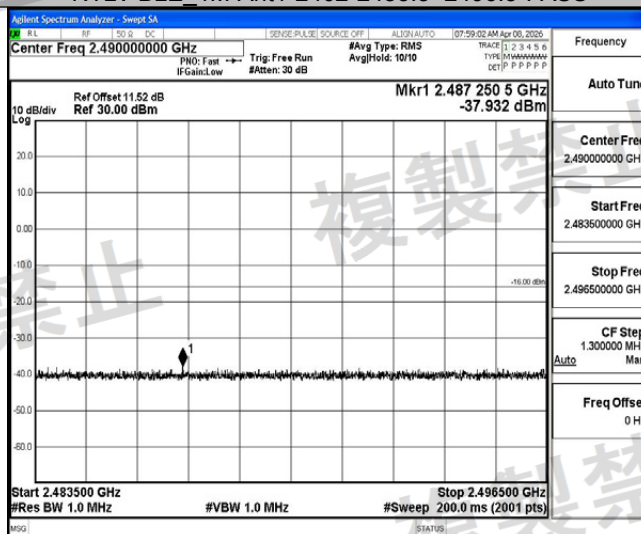


## NTHV-BLE 1M-Ant1-2402-2387~2400-PASS

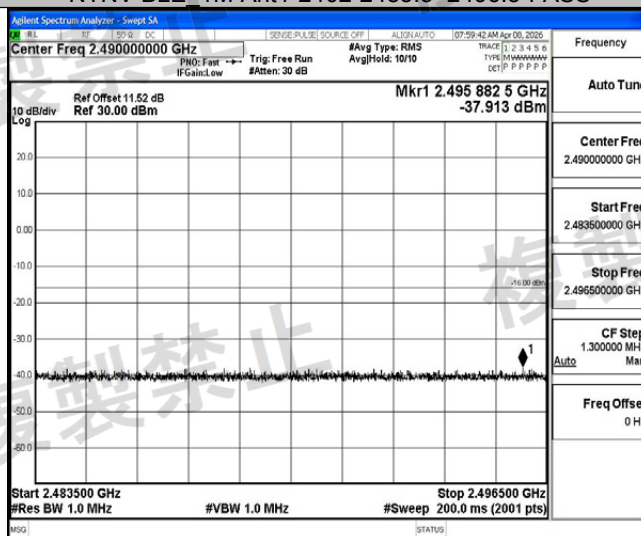




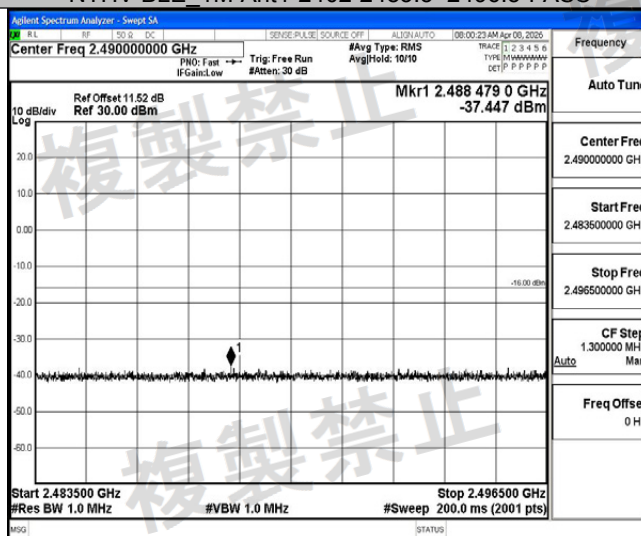
## NTLV-BLE\_1M-Ant1-2402-2483.5~2496.5-PASS



## NTNV-BLE\_1M-Ant1-2402-2483.5~2496.5-PASS

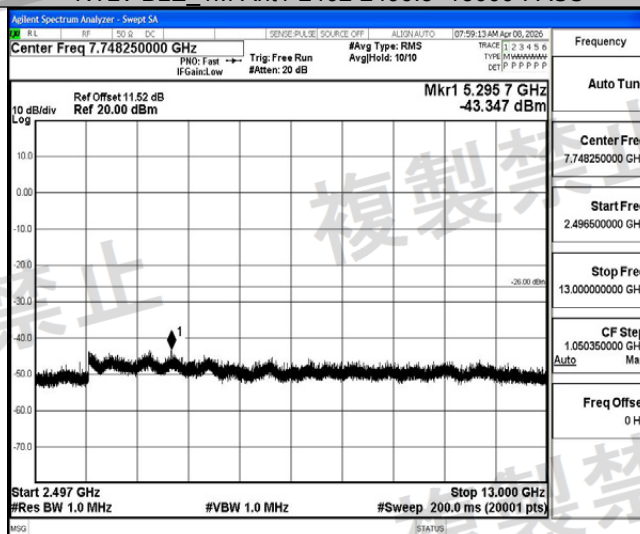


## NTHV-BLE\_1M-Ant1-2402-2483.5~2496.5-PASS

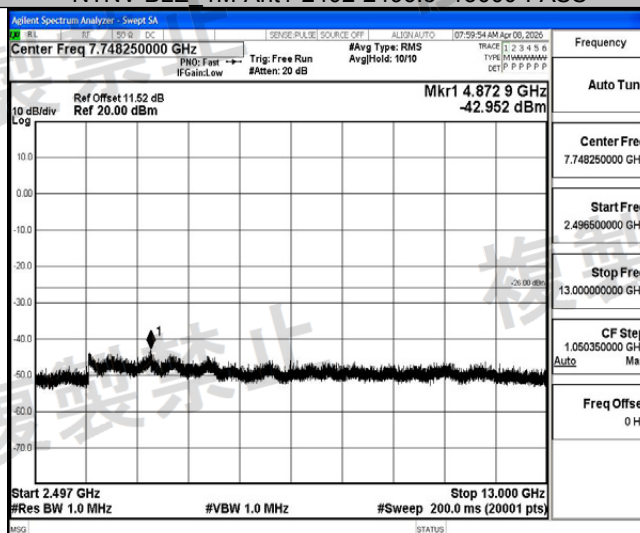




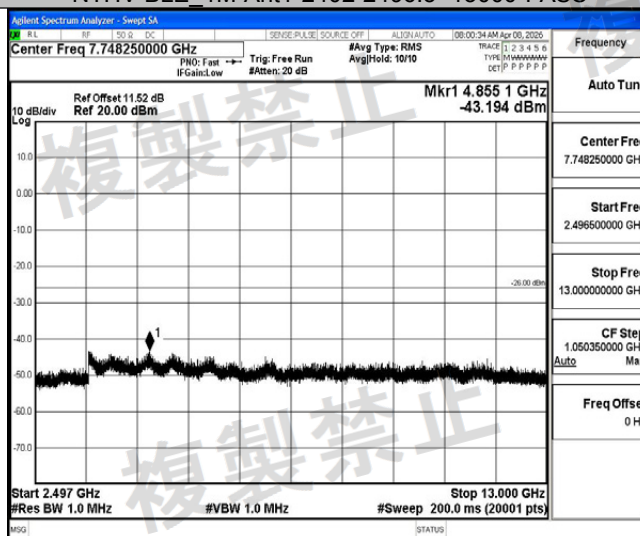
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## NTNV-BLE 1M-Ant1-2402-2496.5~13000-PASS

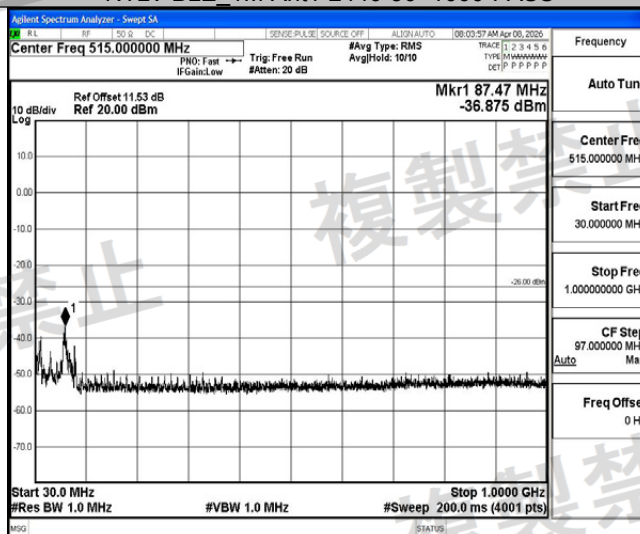


## NTHV-BLE 1M-Ant1-2402-2496.5~13000-PASS

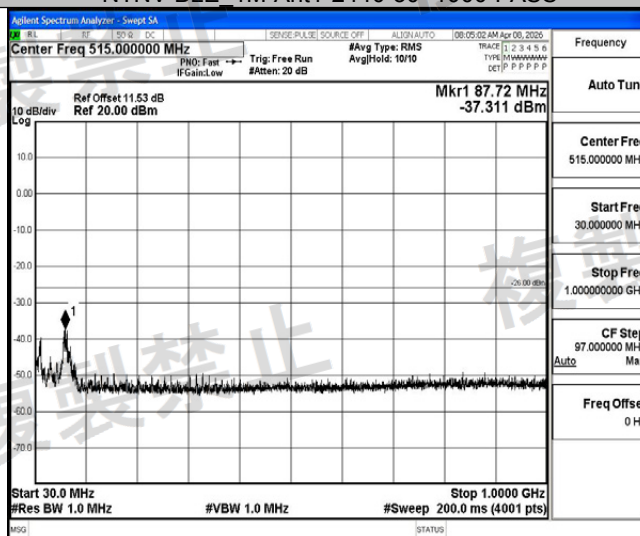




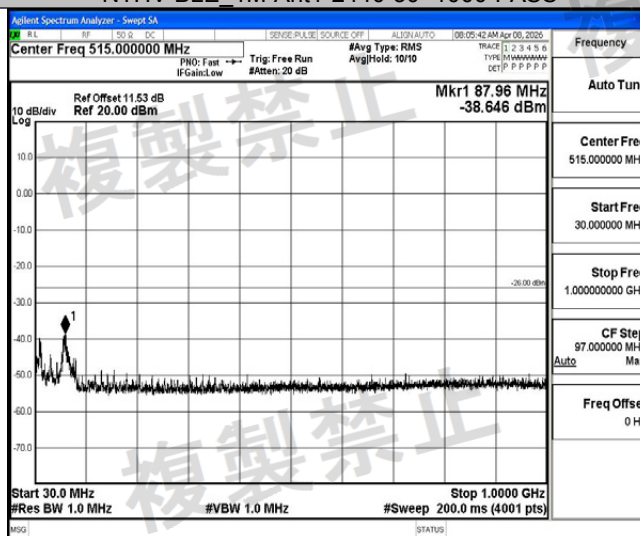
## NTLV-BLE\_1M-Ant1-2440-30~1000-PASS



## NTNV-BLE\_1M-Ant1-2440-30~1000-PASS

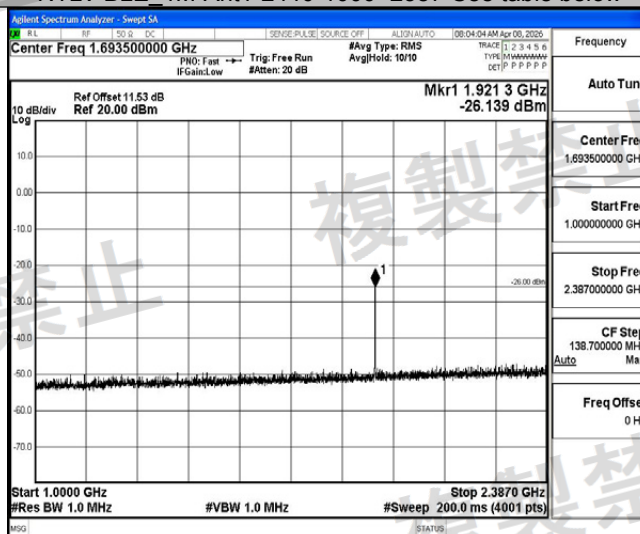


## NTHV-BLE\_1M-Ant1-2440-30~1000-PASS

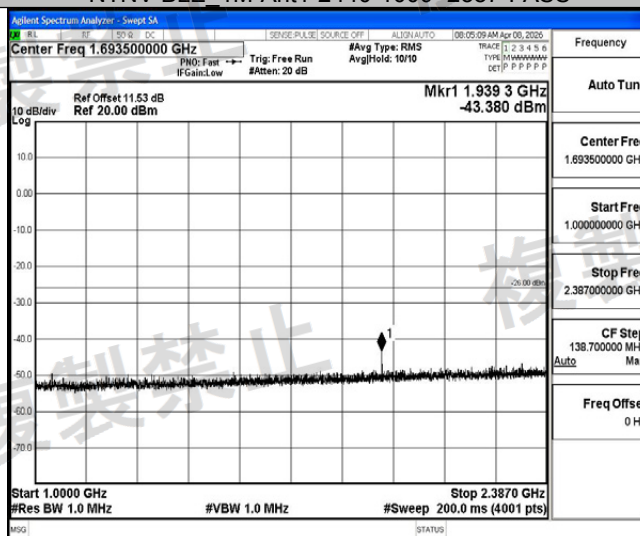




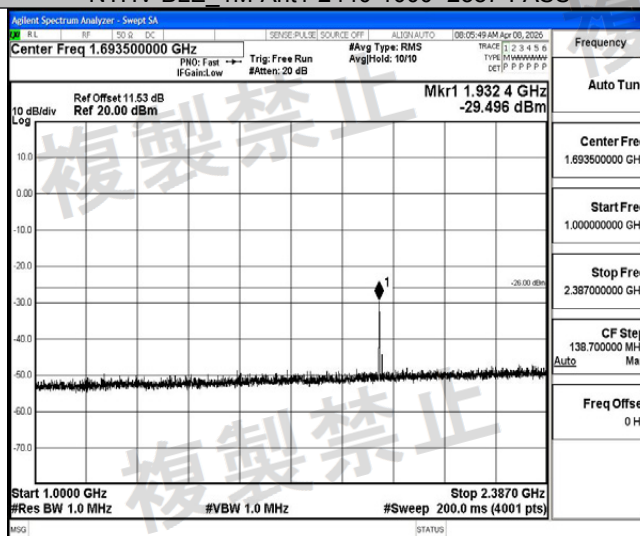
## NTLV-BLE 1M-Ant1-2440-1000~2387-See table below



## NTNV-BLE 1M-Ant1-2440-1000~2387-PASS

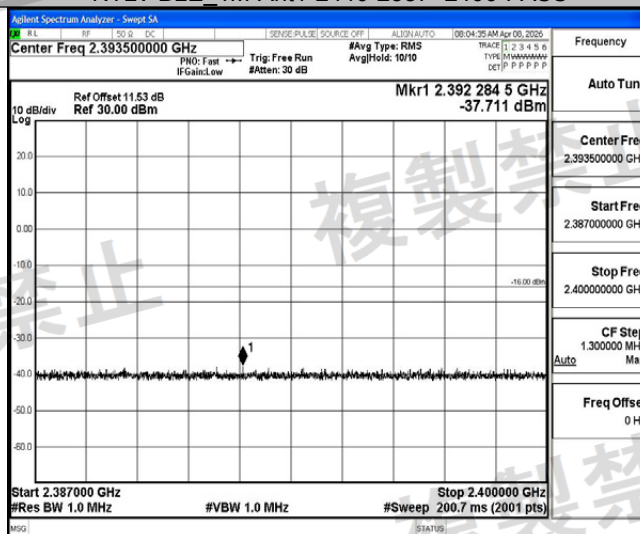


## NTHV-BLE 1M-Ant1-2440-1000~2387-PASS

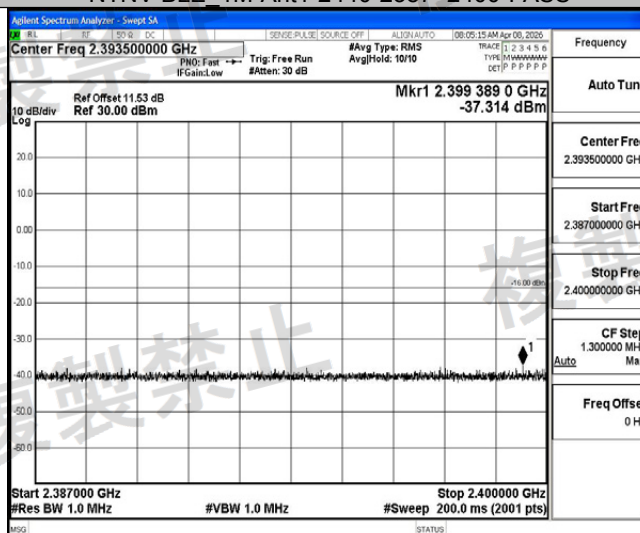




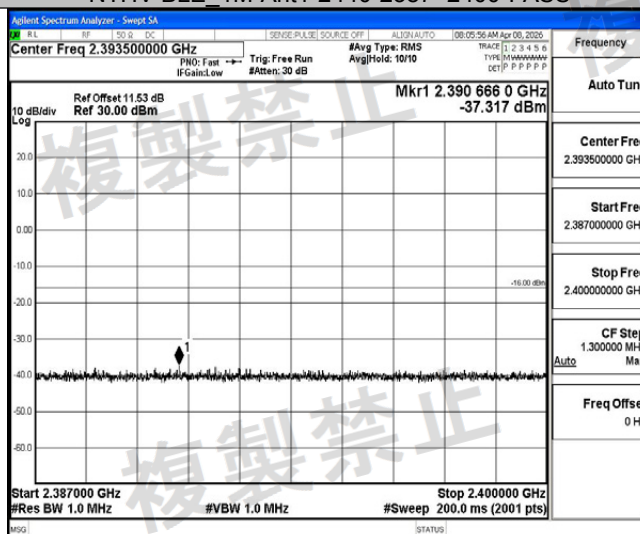
## NTLV-BLE 1M-Ant1-2440-2387~2400-PASS



## NTNV-BLE 1M-Ant1-2440-2387~2400-PASS

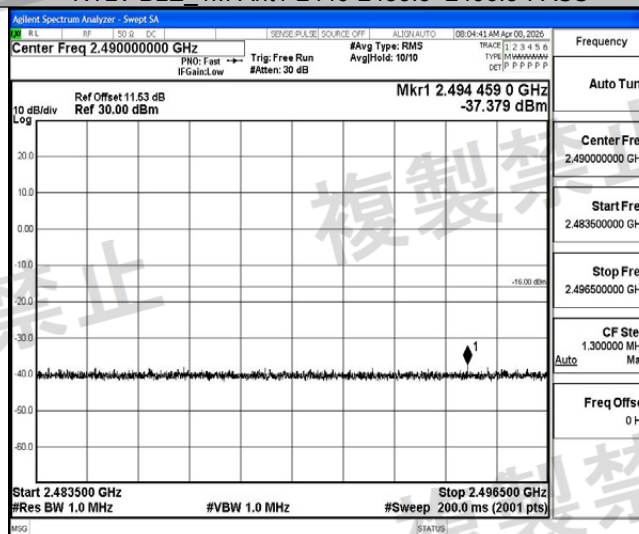


## NTHV-BLE 1M-Ant1-2440-2387~2400-PASS

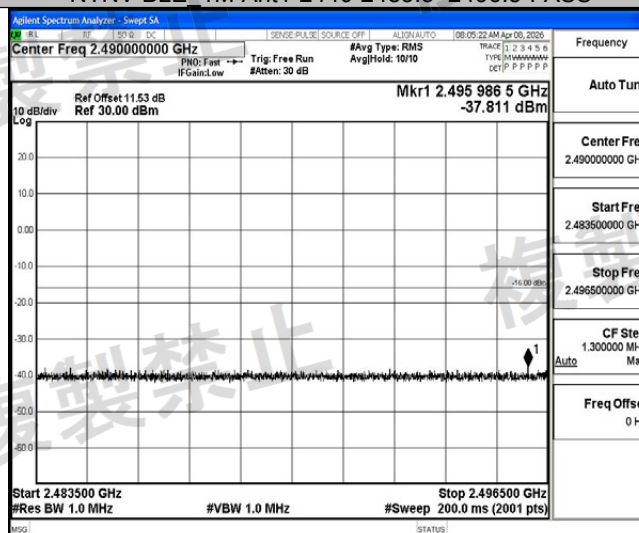




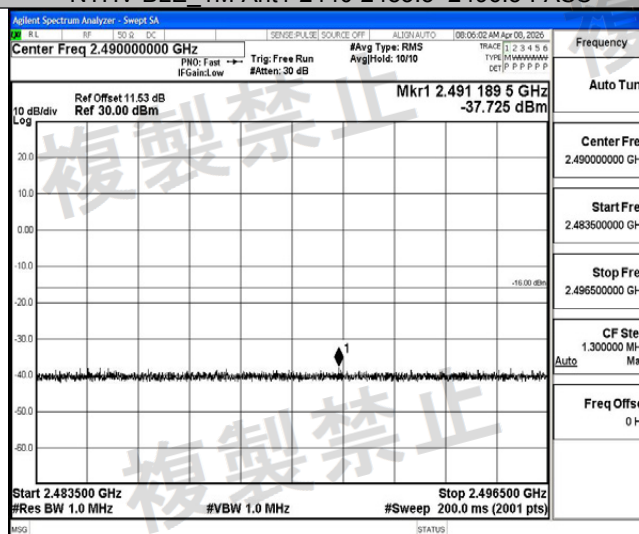
## NTLV-BLE\_1M-Ant1-2440-2483.5~2496.5-PASS



## NTNV-BLE\_1M-Ant1-2440-2483.5~2496.5-PASS

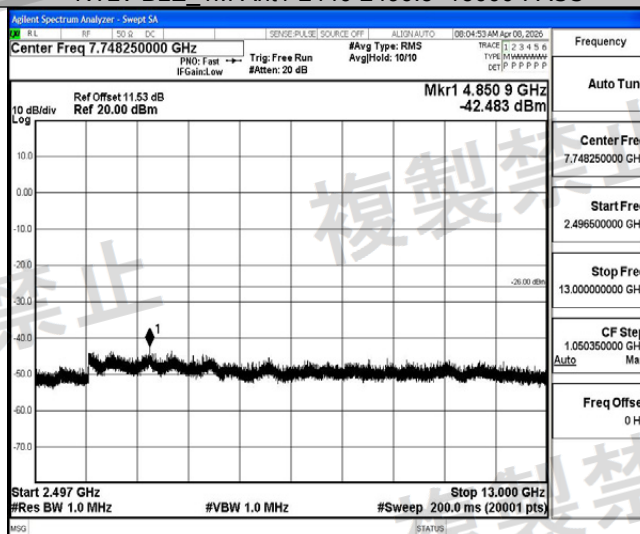


## NTHV-BLE\_1M-Ant1-2440-2483.5~2496.5-PASS

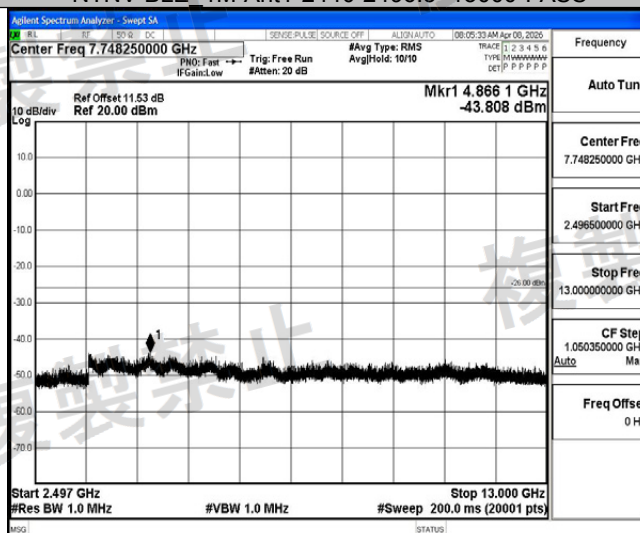




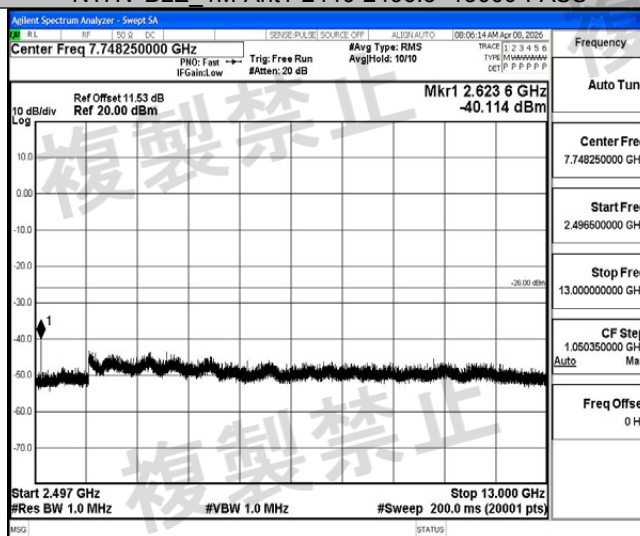
## NTLV-BLE 1M-Ant1-2440-2496.5~13000-PASS



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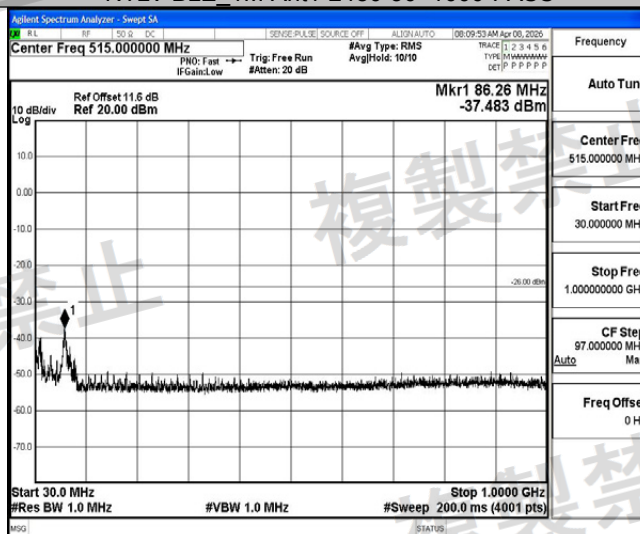


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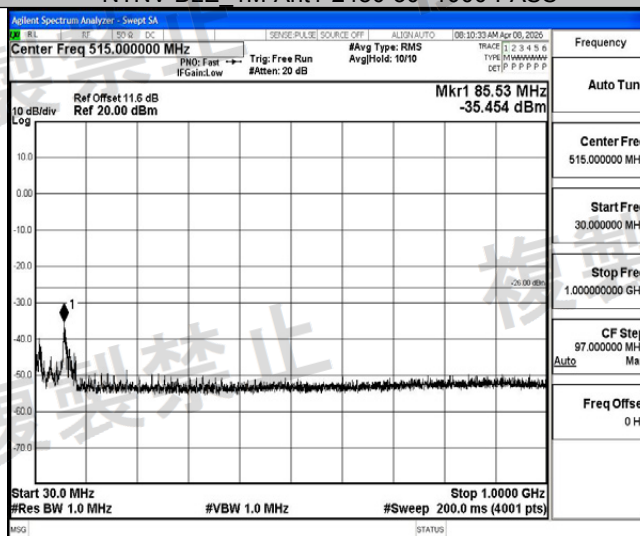




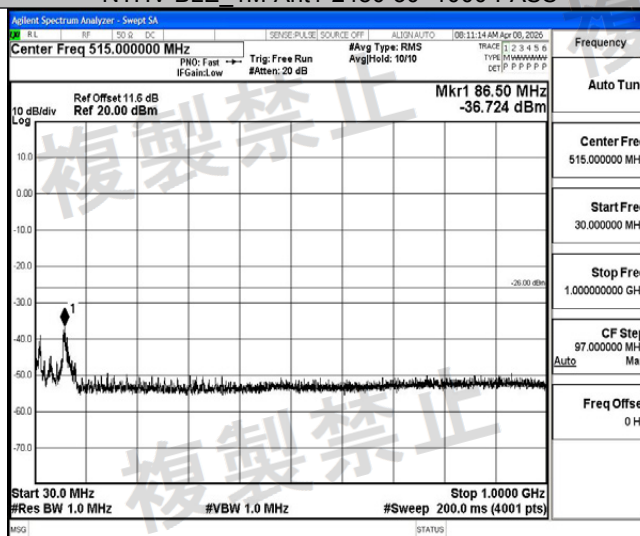
## NTLV-BLE\_1M-Ant1-2480-30~1000-PASS



## NTNV-BLE\_1M-Ant1-2480-30~1000-PASS

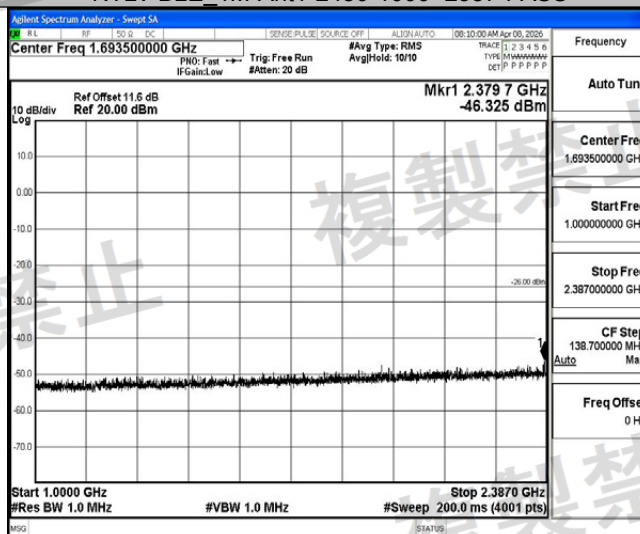


## NTHV-BLE\_1M-Ant1-2480-30~1000-PASS

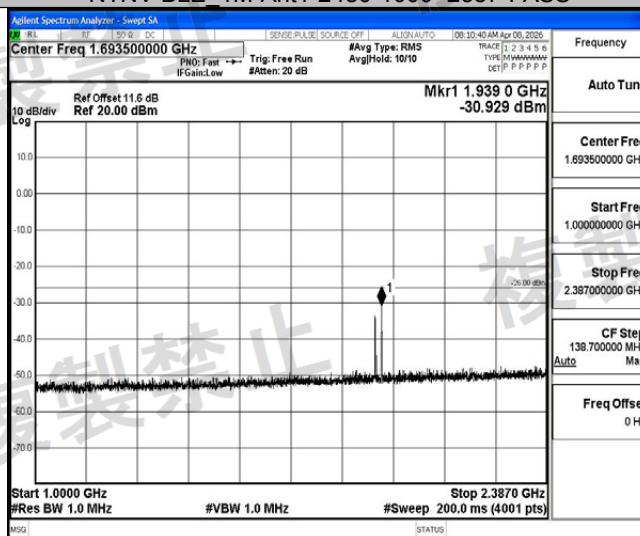




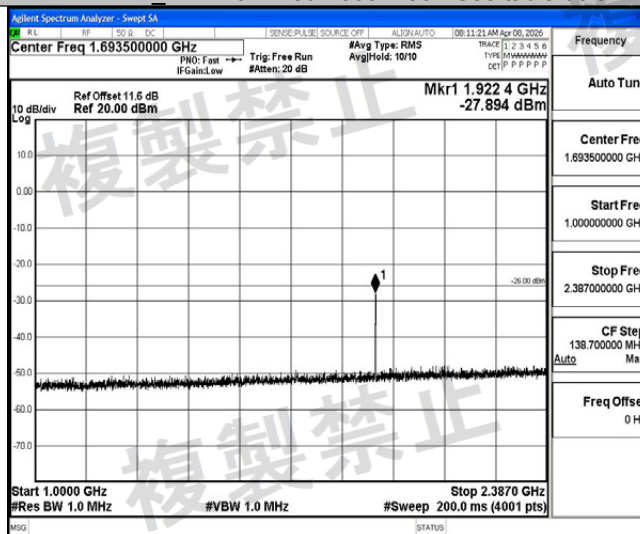
## NTLV-BLE 1M-Ant1-2480-1000~2387-PASS



## NTNV-BLE 1M-Ant1-2480-1000~2387-PASS

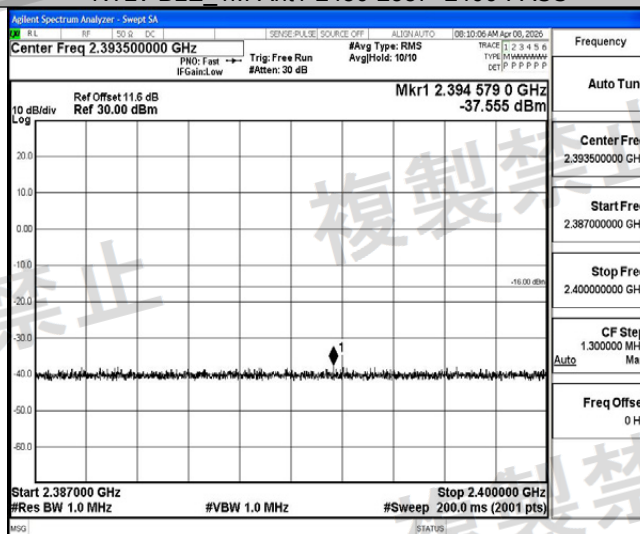


## NTHV-BLE 1M-Ant1-2480-1000~2387-See table below

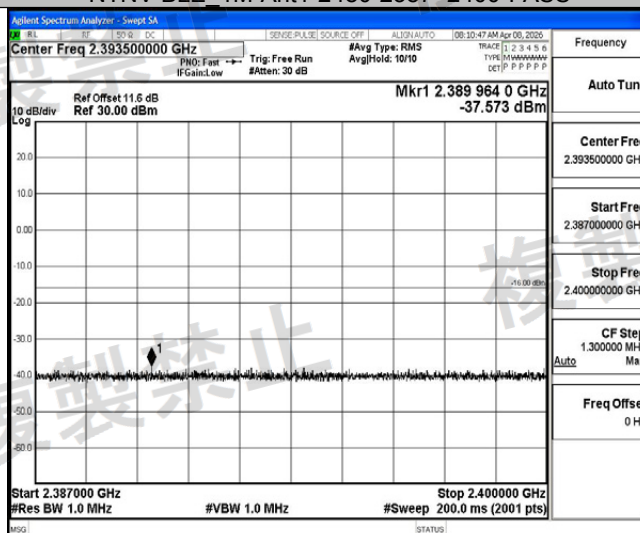




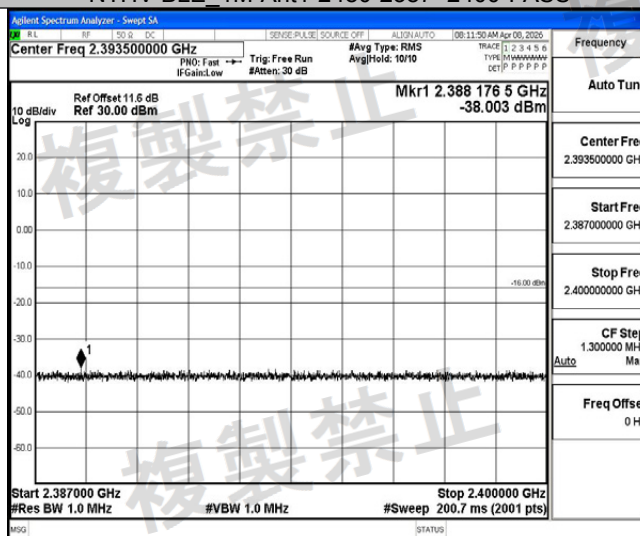
## NTLV-BLE 1M-Ant1-2480-2387~2400-PASS



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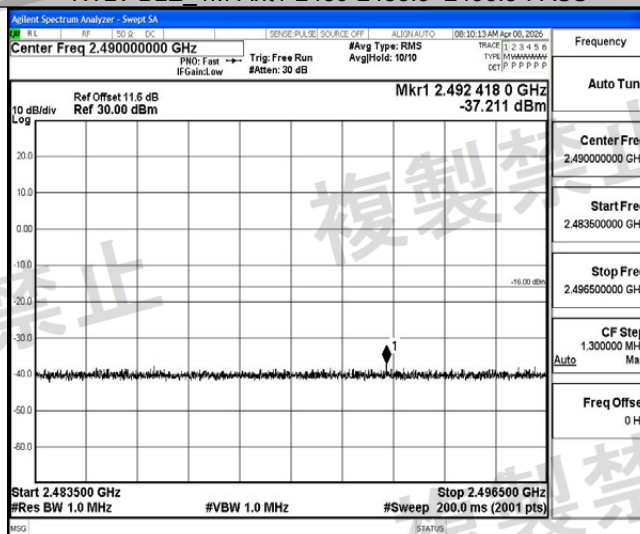


## NTHV-BLE 1M-Ant1-2480-2387~2400-PASS

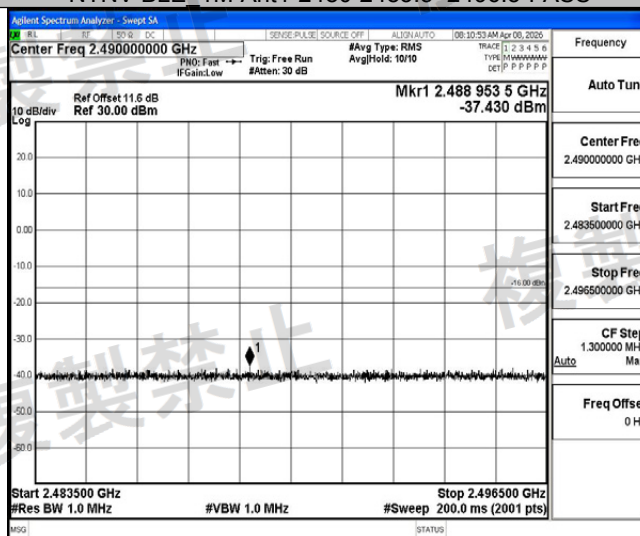




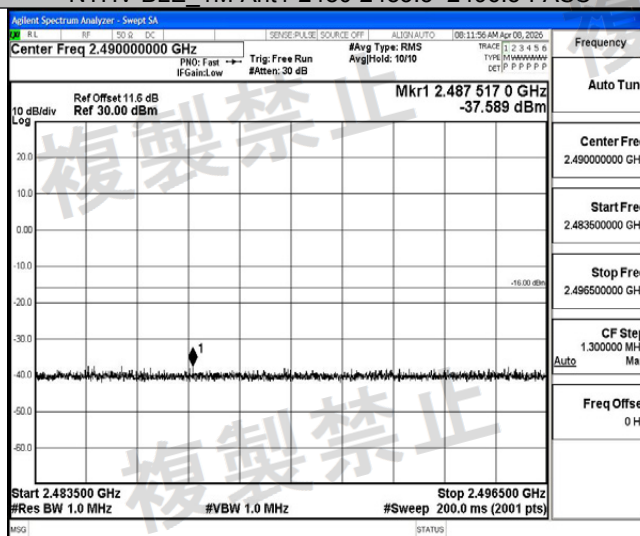
## NTLV-BLE\_1M-Ant1-2480-2483.5~2496.5-PASS



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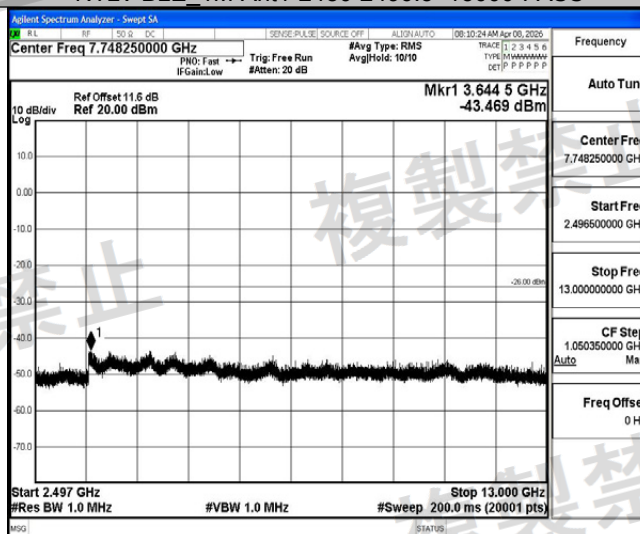


## NTHV-BLE\_1M-Ant1-2480-2483.5~2496.5-PASS

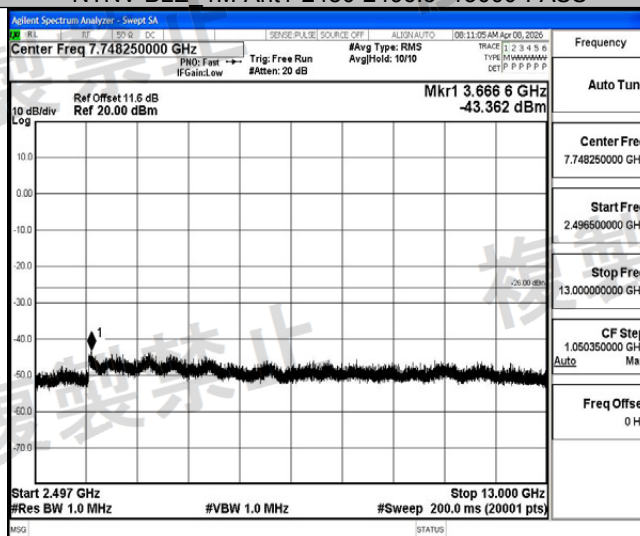




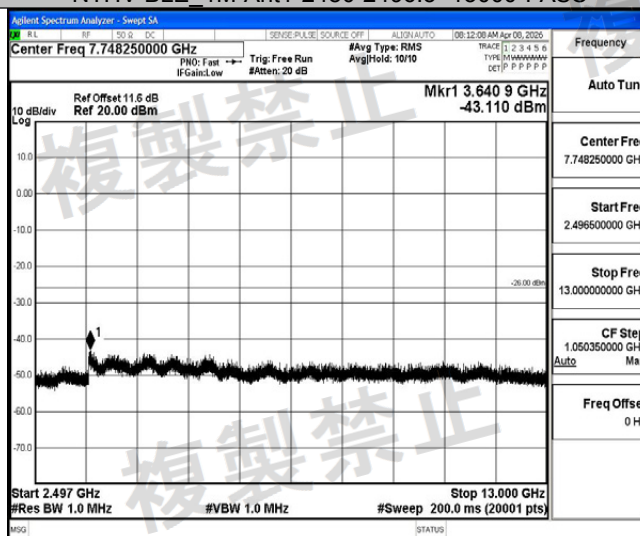
## NTLV-BLE 1M-Ant1-2480-2496.5~13000-PASS



## NTNV-BLE 1M-Ant1-2480-2496.5~13000-PASS

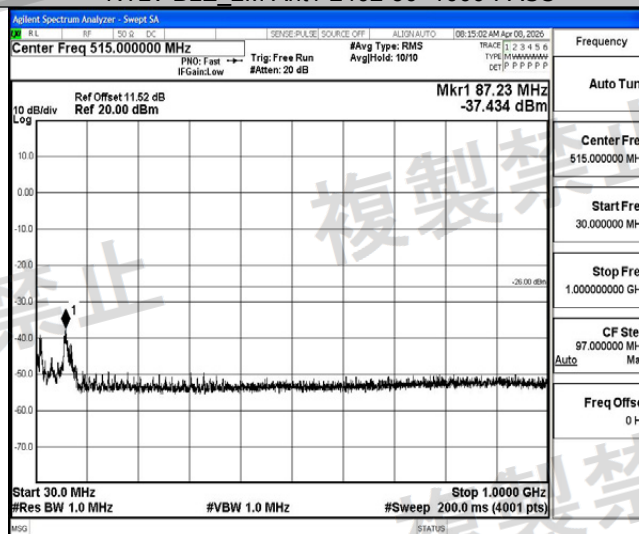


## NTHV-BLE 1M-Ant1-2480-2496.5~13000-PASS

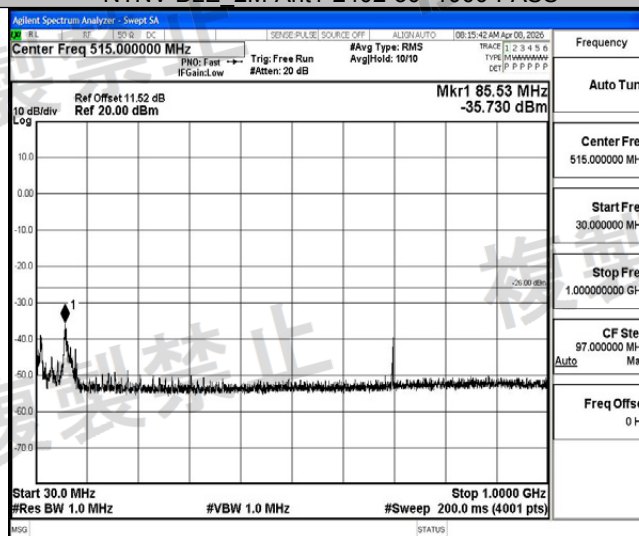




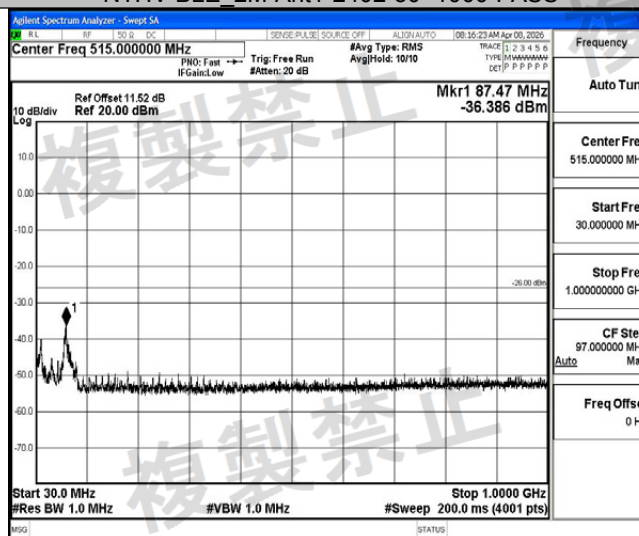
## NTLV-BLE\_2M-Ant1-2402-30~1000-PASS



## NTNV-BLE\_2M-Ant1-2402-30~1000-PASS

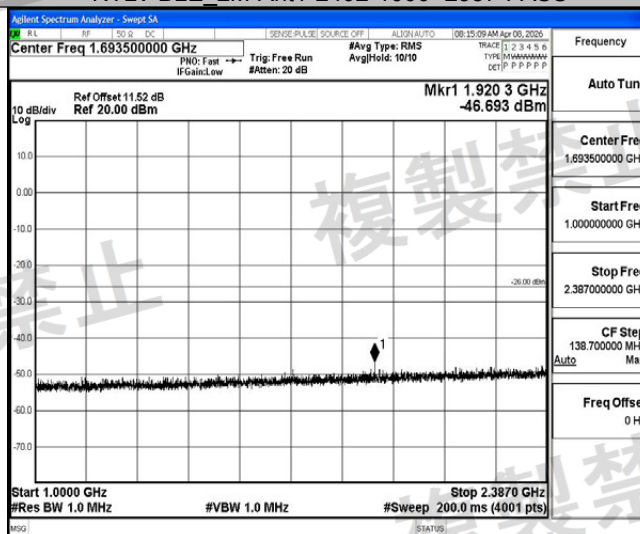


## NTHV-BLE\_2M-Ant1-2402-30~1000-PASS

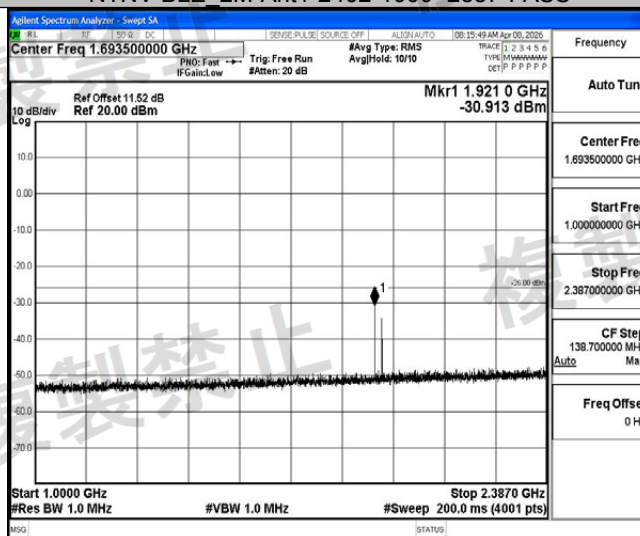




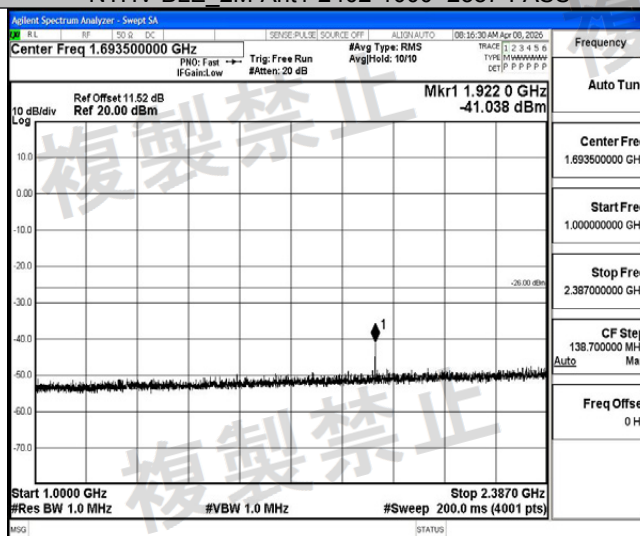
## NTLV-BLE 2M-Ant1-2402-1000~2387-PASS



## NTNV-BLE 2M-Ant1-2402-1000~2387-PASS

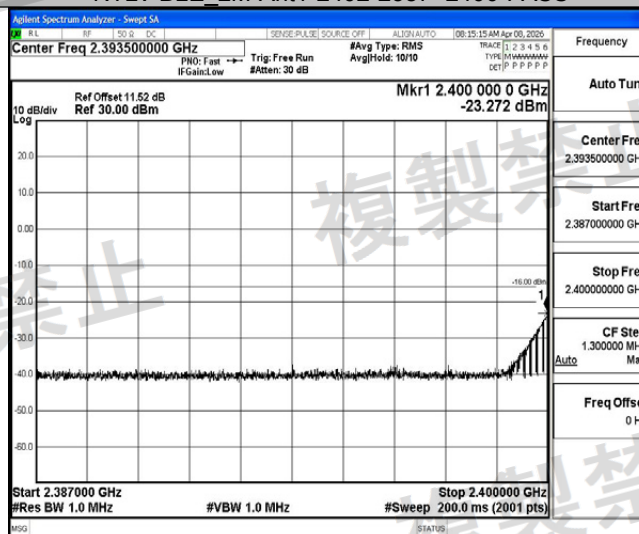


## NTHV-BLE 2M-Ant1-2402-1000~2387-PASS

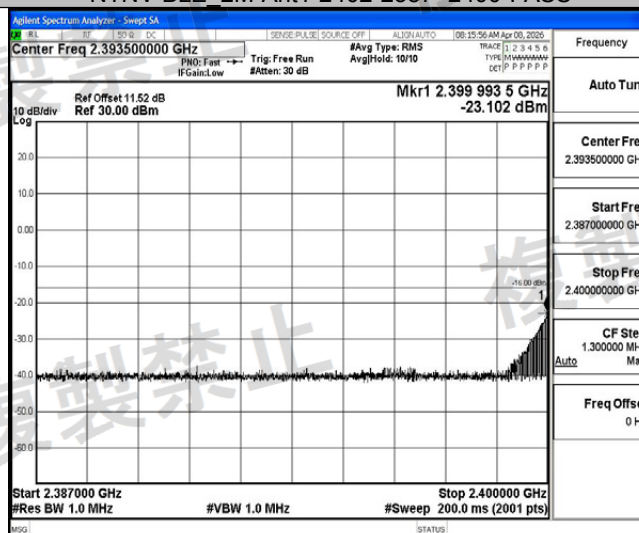




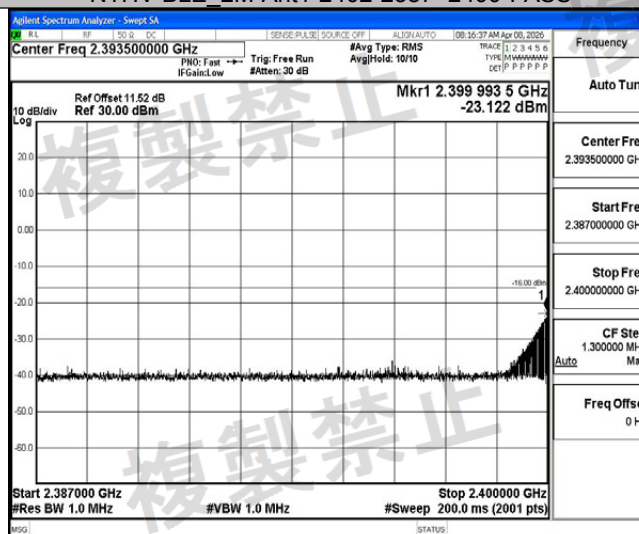
## NTLV-BLE\_2M-Ant1-2402-2387~2400-PASS



## NTNV-BLE\_2M-Ant1-2402-2387~2400-PASS

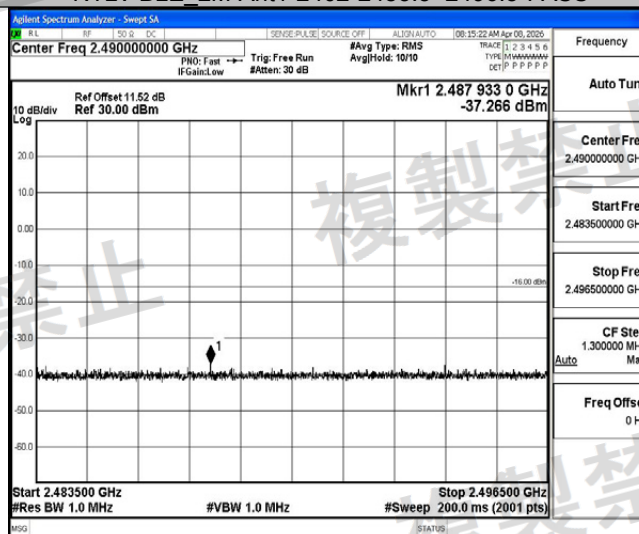


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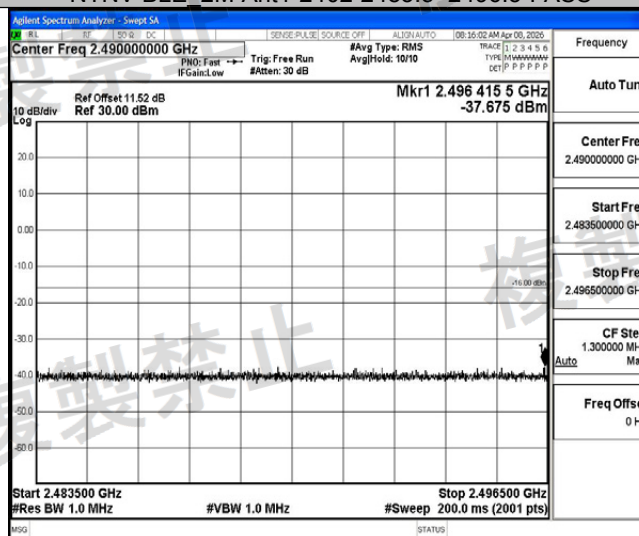




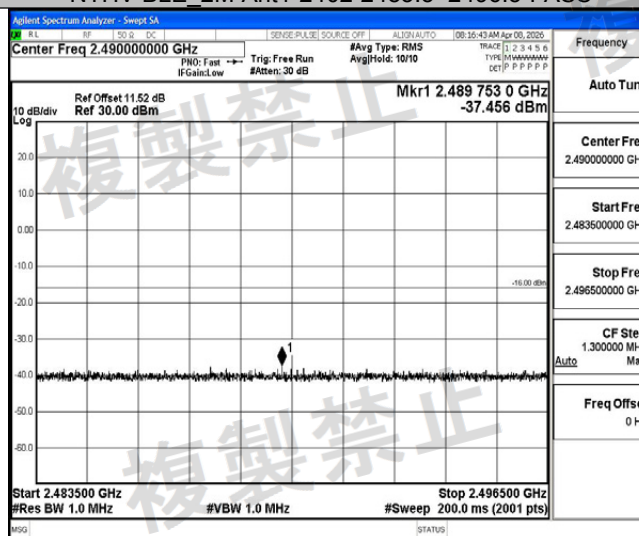
## NTLV-BLE\_2M-Ant1-2402-2483.5~2496.5-PASS



## NTNV-BLE\_2M-Ant1-2402-2483.5~2496.5-PASS

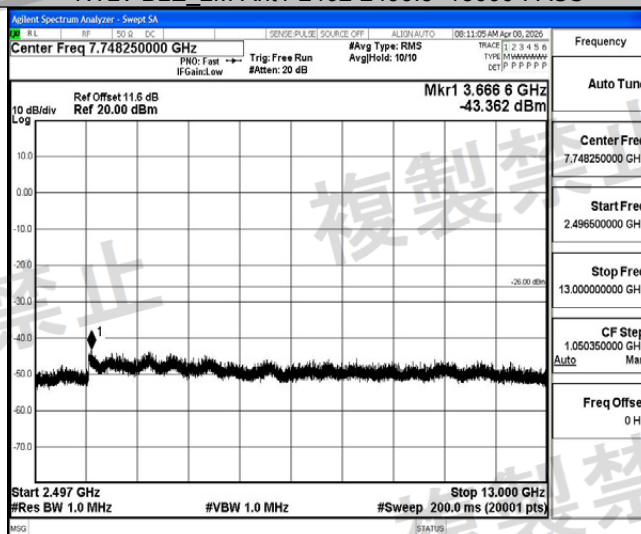


## NTHV-BLE\_2M-Ant1-2402-2483.5~2496.5-PASS

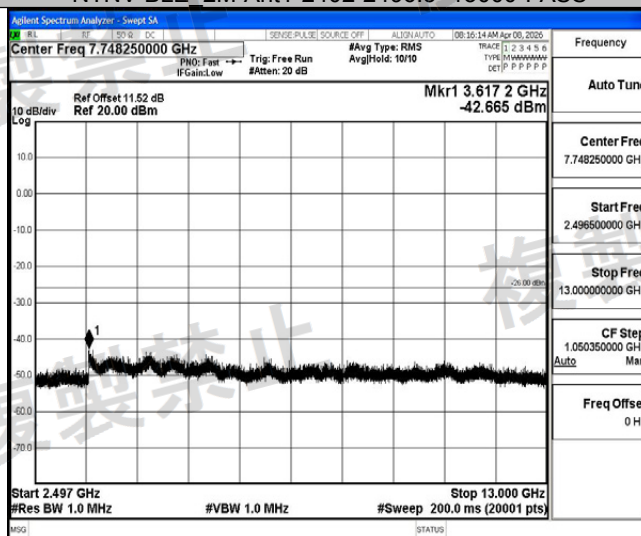




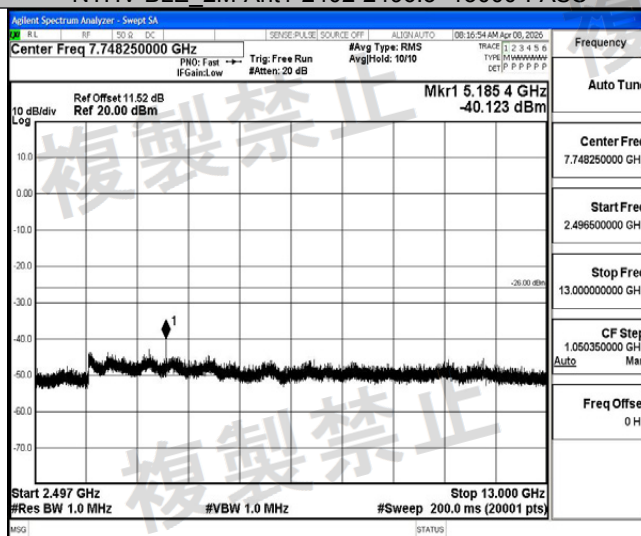
## NTLV-BLE 2M-Ant1-2402-2496.5~13000-PASS



## NTNV-BLE 2M-Ant1-2402-2496.5~13000-PASS

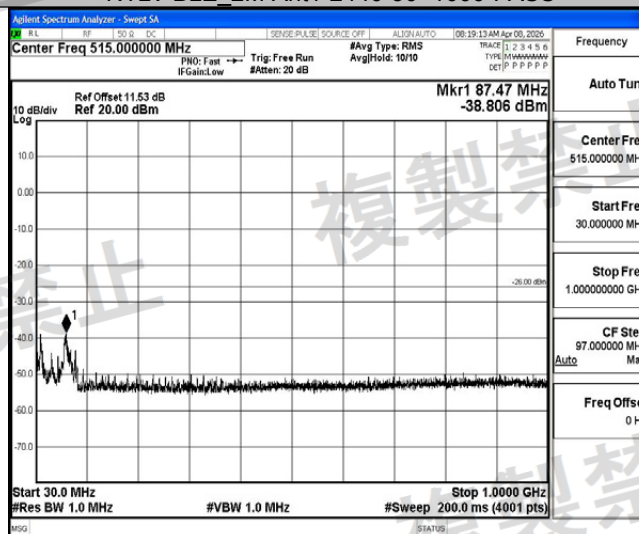


## NTHV-BLE 2M-Ant1-2402-2496.5~13000-PASS

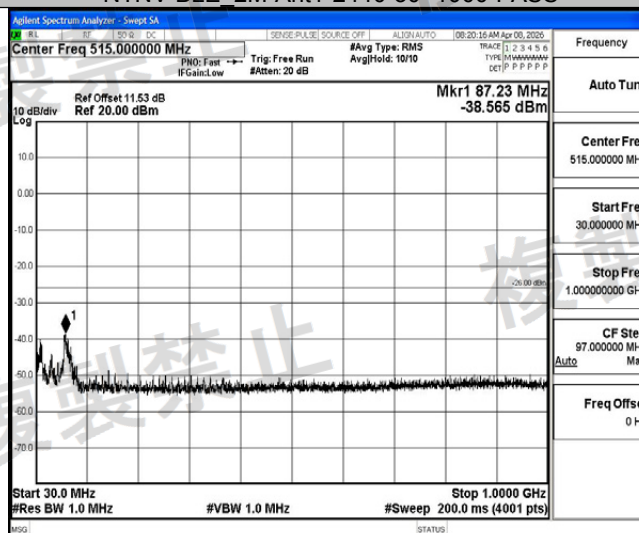




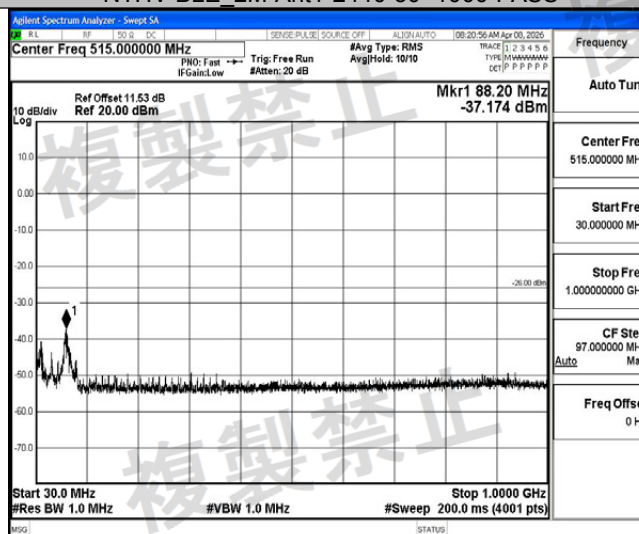
## NTLV-BLE\_2M-Ant1-2440-30~1000-PASS



## NTNV-BLE\_2M-Ant1-2440-30~1000-PASS

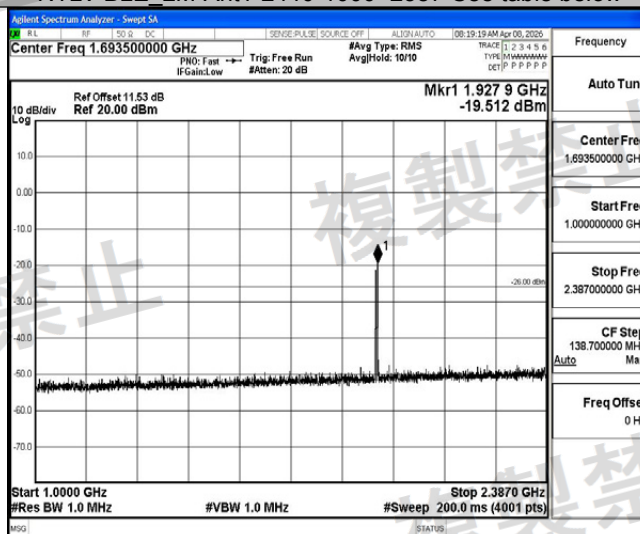


## NTHV-BLE\_2M-Ant1-2440-30~1000-PASS

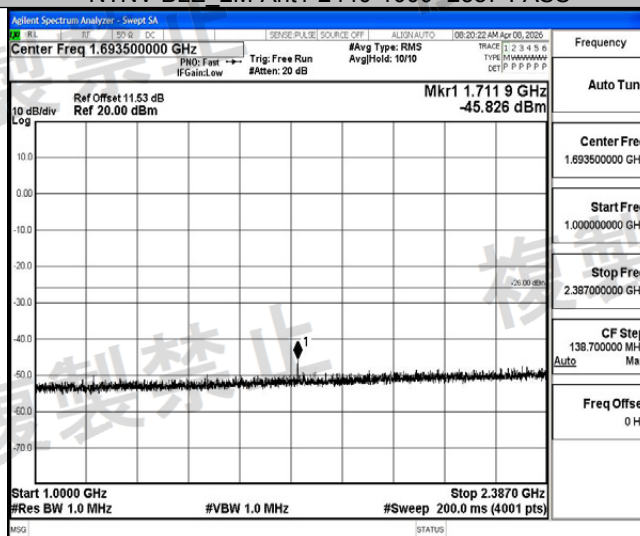




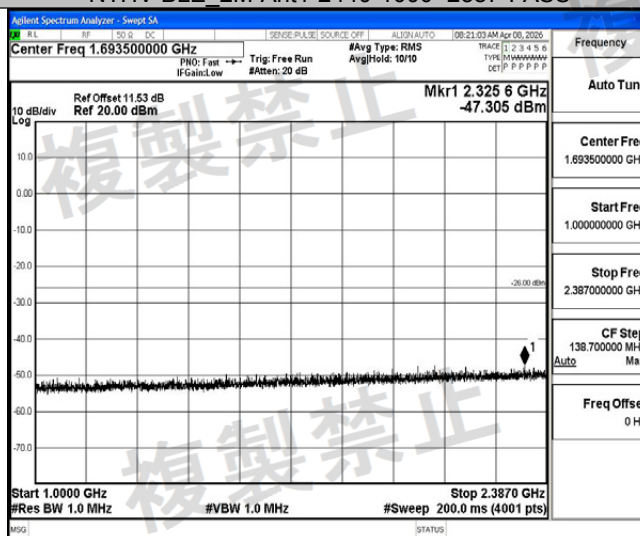
## NTLV-BLE\_2M-Ant1-2440-1000~2387-See table below



## NTNV-BLE\_2M-Ant1-2440-1000~2387-PASS

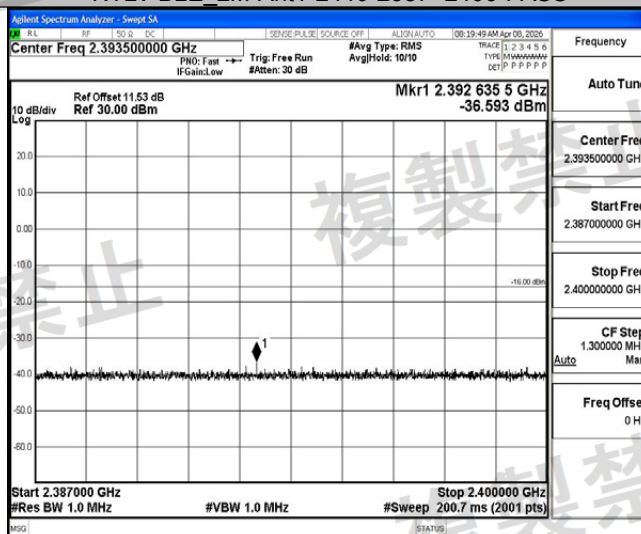


## NTHV-BLE\_2M-Ant1-2440-1000~2387-PASS

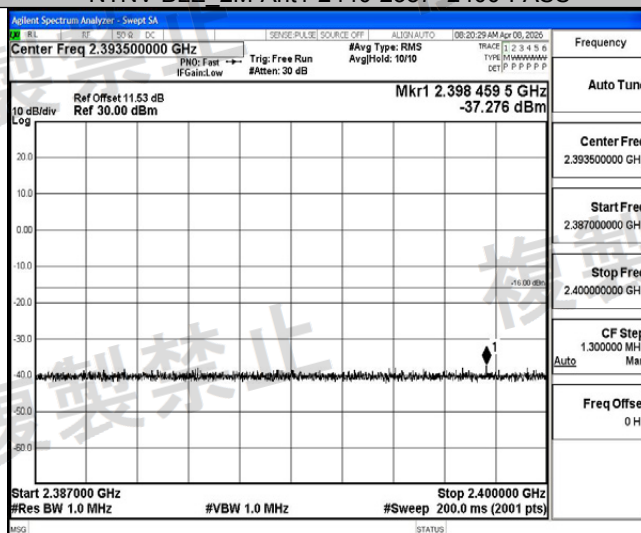




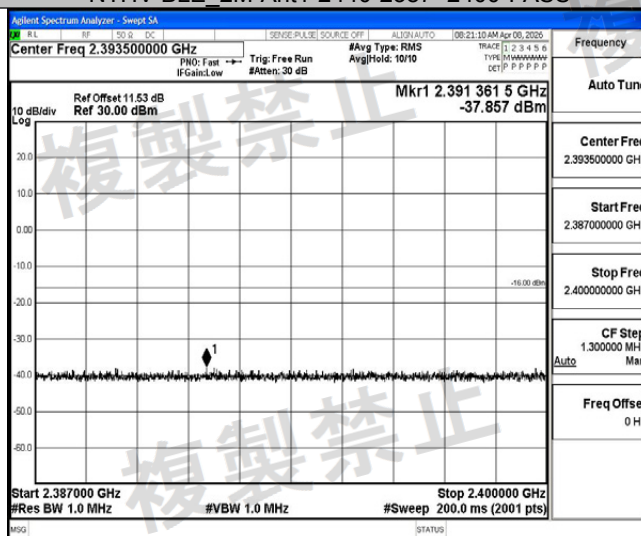
## NTLV-BLE 2M-Ant1-2440-2387~2400-PASS



## NTNV-BLE 2M-Ant1-2440-2387~2400-PASS

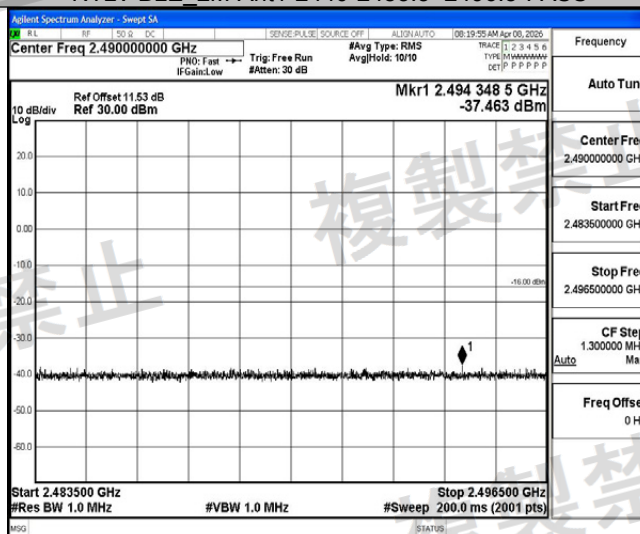


## NTHV-BLE 2M-Ant1-2440-2387~2400-PASS

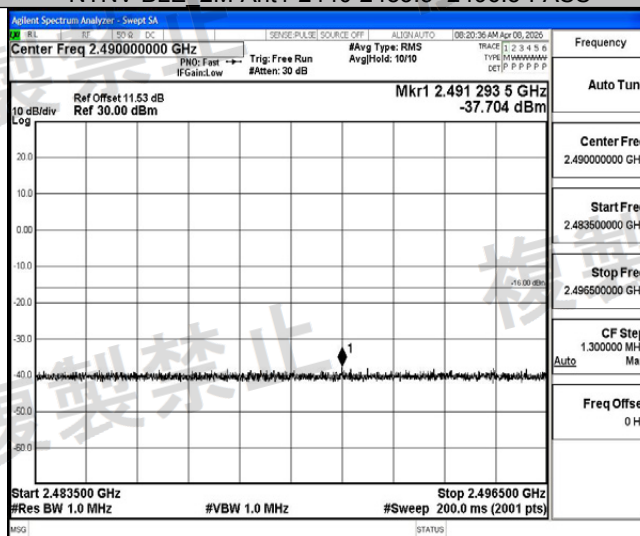




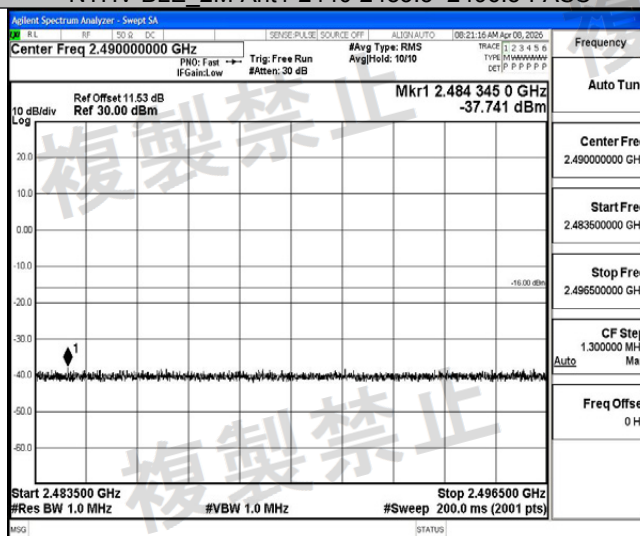
## NTLV-BLE\_2M-Ant1-2440-2483.5~2496.5-PASS



## NTNV-BLE\_2M-Ant1-2440-2483.5~2496.5-PASS

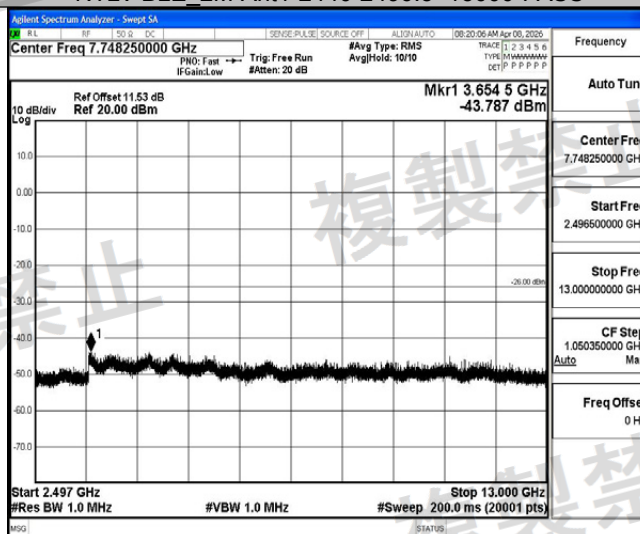


## NTHV-BLE\_2M-Ant1-2440-2483.5~2496.5-PASS

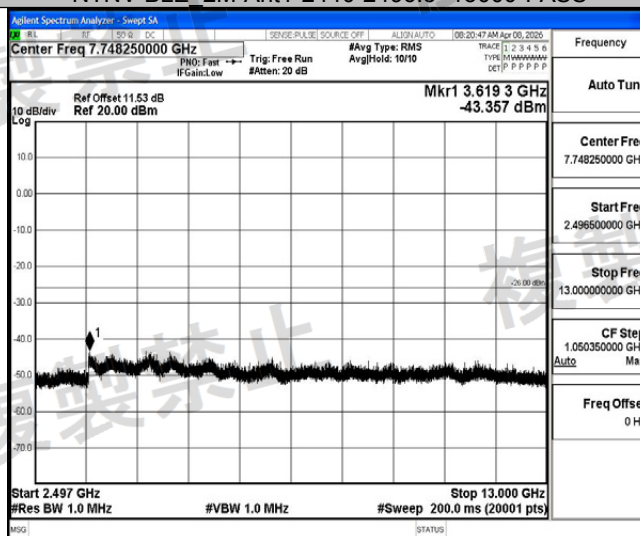




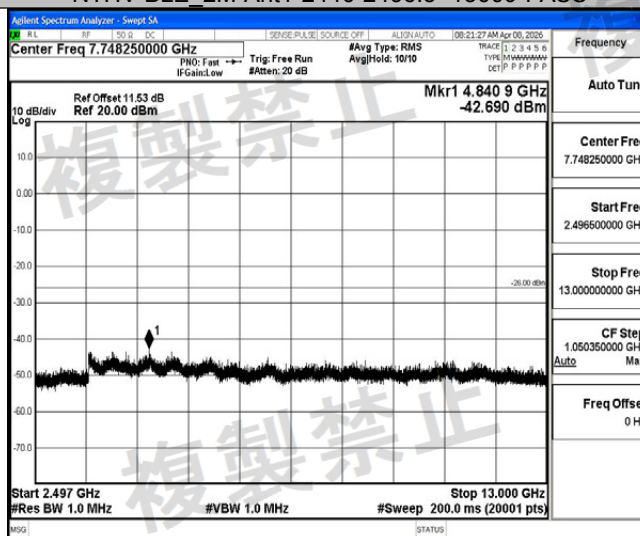
## NTLV-BLE 2M-Ant1-2440-2496.5~13000-PASS



## NTNV-BLE 2M-Ant1-2440-2496.5~13000-PASS

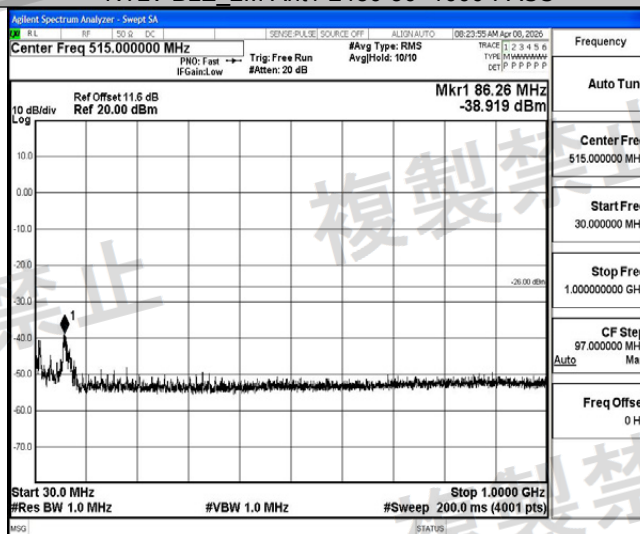


## NTHV-BLE 2M-Ant1-2440-2496.5~13000-PASS

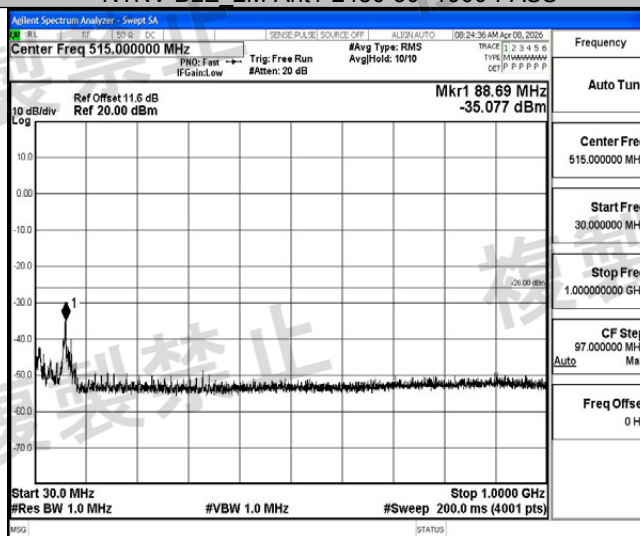




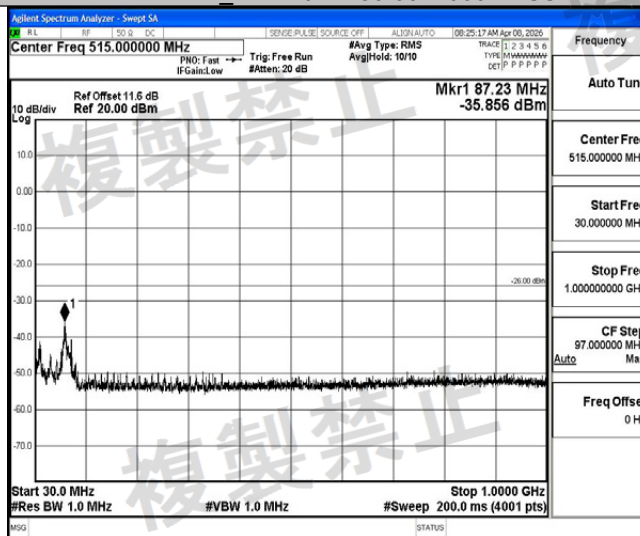
## NTLV-BLE\_2M-Ant1-2480-30~1000-PASS



## NTNV-BLE\_2M-Ant1-2480-30~1000-PASS

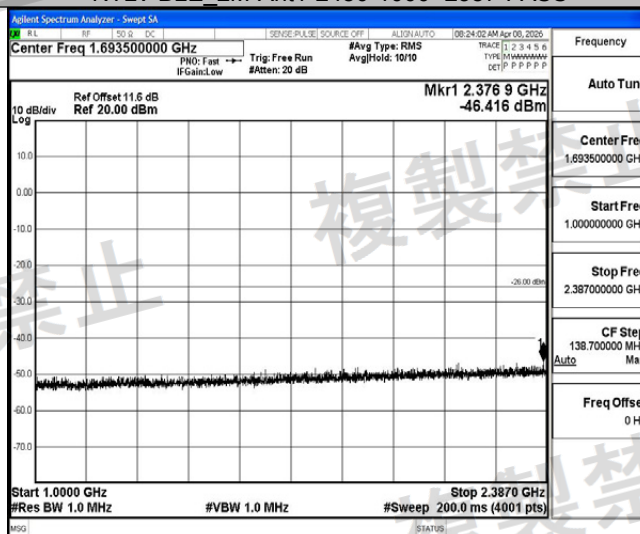


## NTHV-BLE\_2M-Ant1-2480-30~1000-PASS

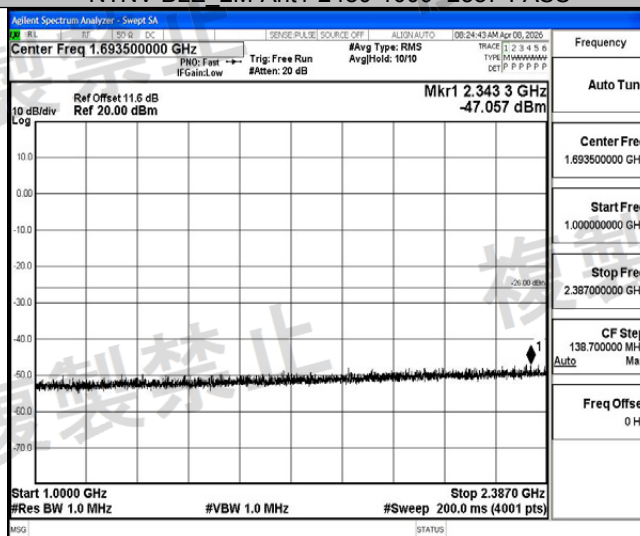




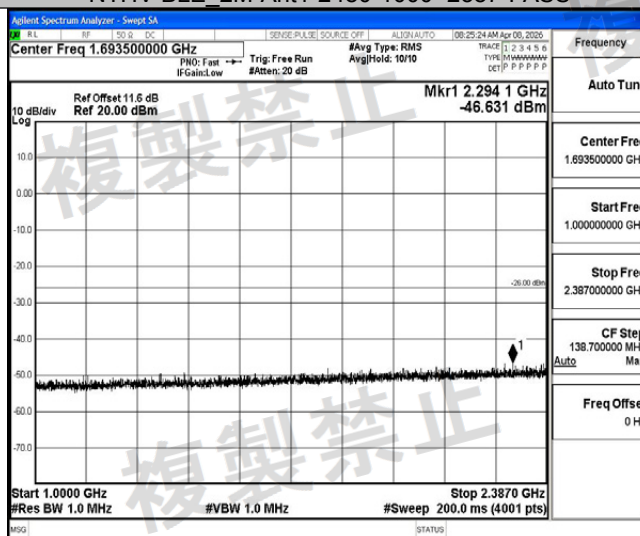
## NTLV-BLE 2M-Ant1-2480-1000~2387-PASS



## NTNV-BLE 2M-Ant1-2480-1000~2387-PASS

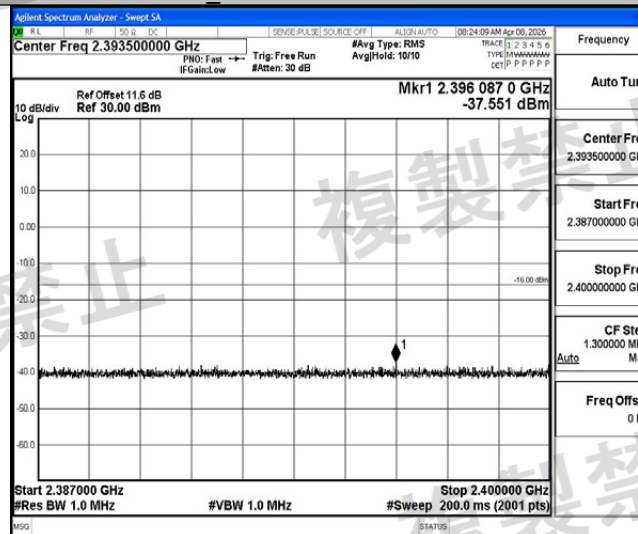


## NTHV-BLE 2M-Ant1-2480-1000~2387-PASS

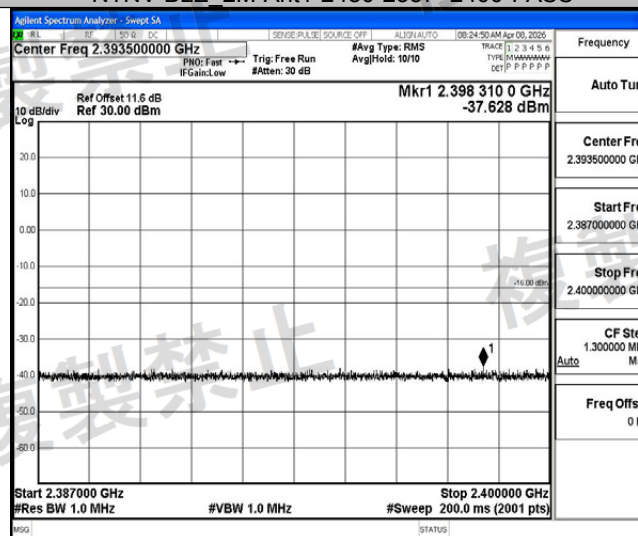




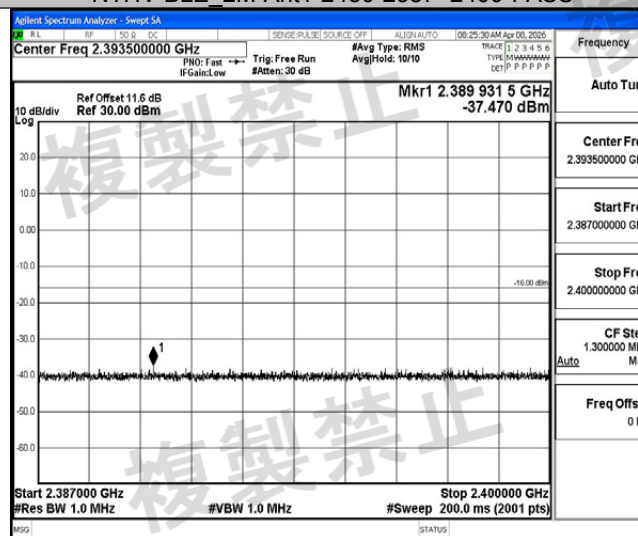
## NTLV-BLE 2M-Ant1-2480-2387~2400-PASS



## NTNV-BLE 2M-Ant1-2480-2387~2400-PASS

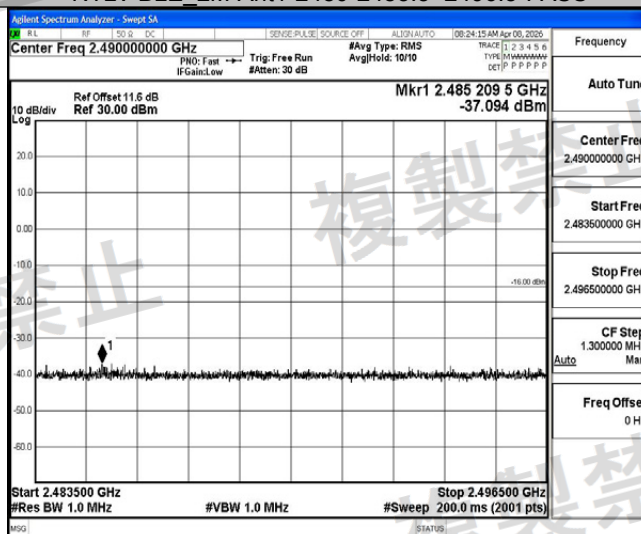


## NTHV-BLE 2M-Ant1-2480-2387~2400-PASS

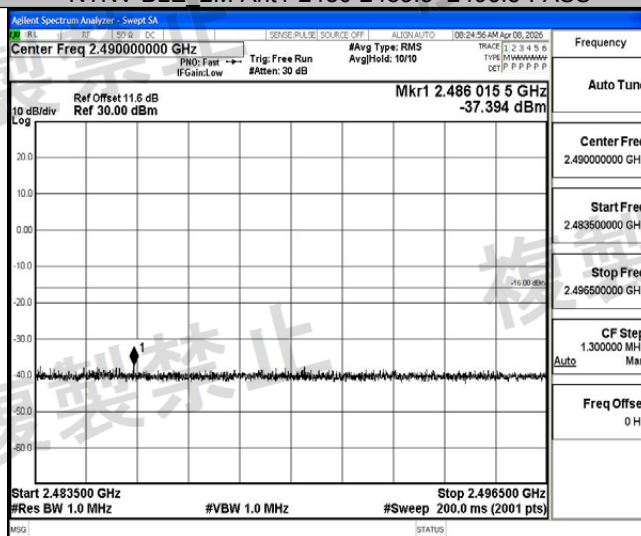




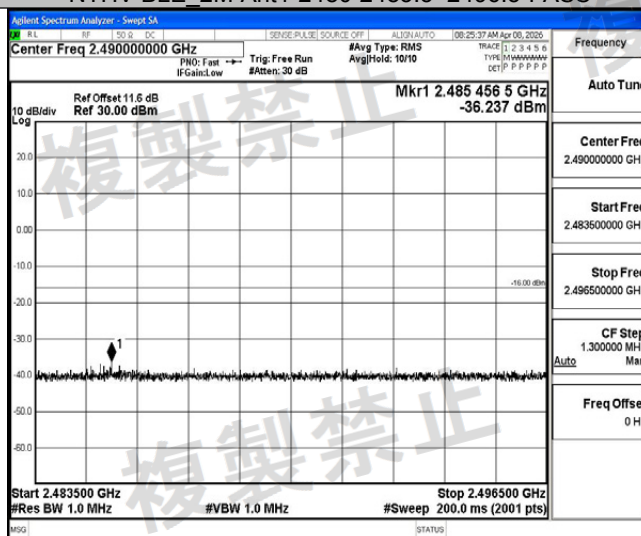
## NTLV-BLE\_2M-Ant1-2480-2483.5~2496.5-PASS



## NTNV-BLE\_2M-Ant1-2480-2483.5~2496.5-PASS

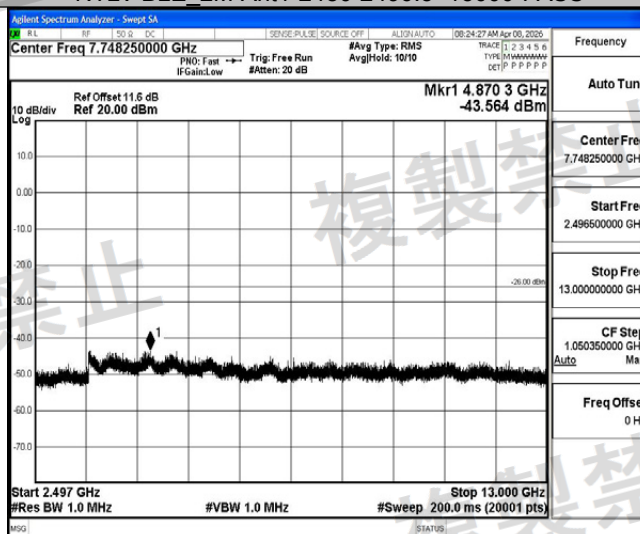


## NTHV-BLE\_2M-Ant1-2480-2483.5~2496.5-PASS

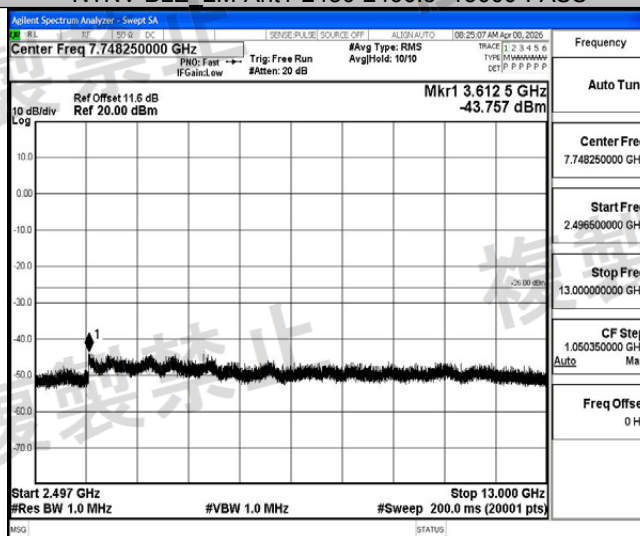




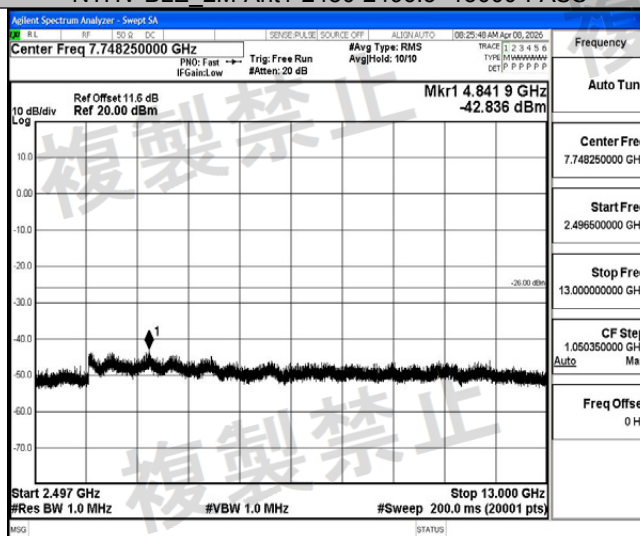
## NTLV-BLE 2M-Ant1-2480-2496.5~13000-PASS



## NTNV-BLE 2M-Ant1-2480-2496.5~13000-PASS



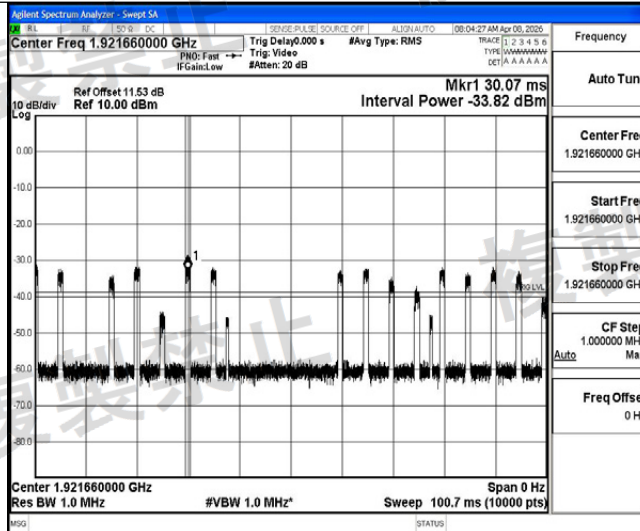
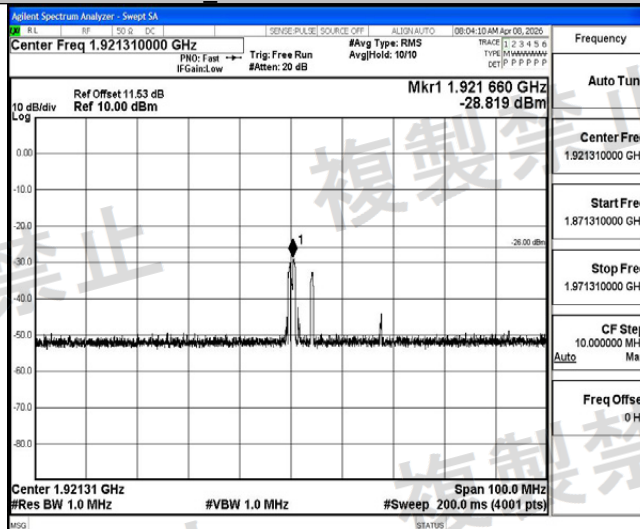
## NTHV-BLE 2M-Ant1-2480-2496.5~13000-PASS



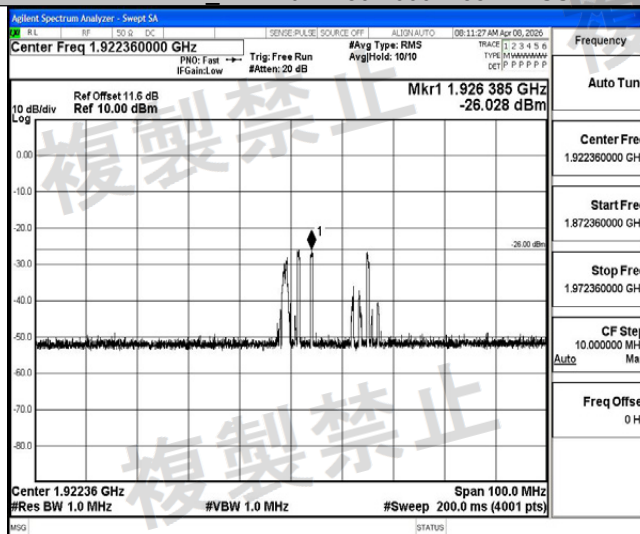


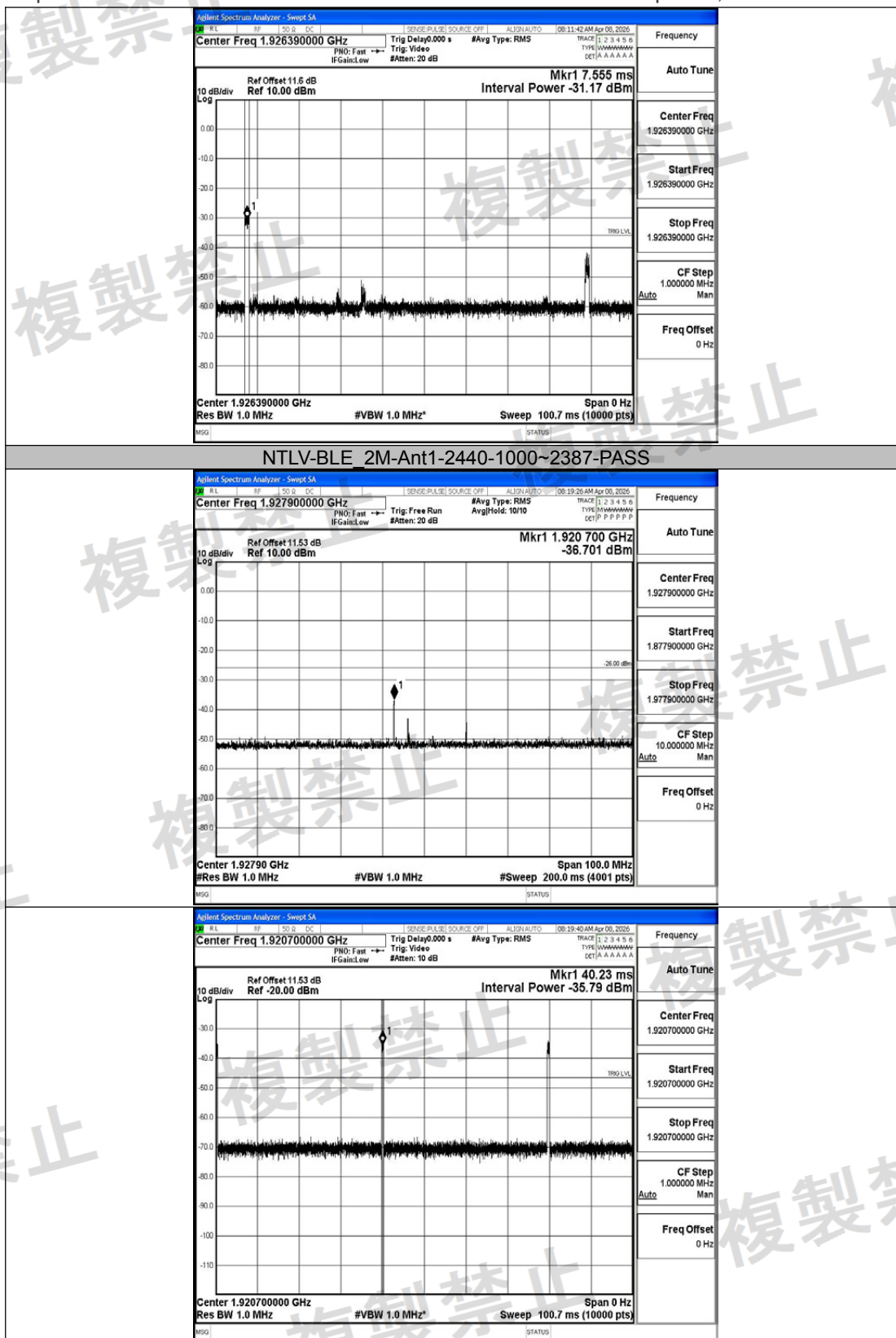
## Test Graphs Step2

## NTLV-BLE 1M-Ant1-2440-1000~2387-PASS



## NTHV-BLE 1M-Ant1-2480-1000~2387-PASS





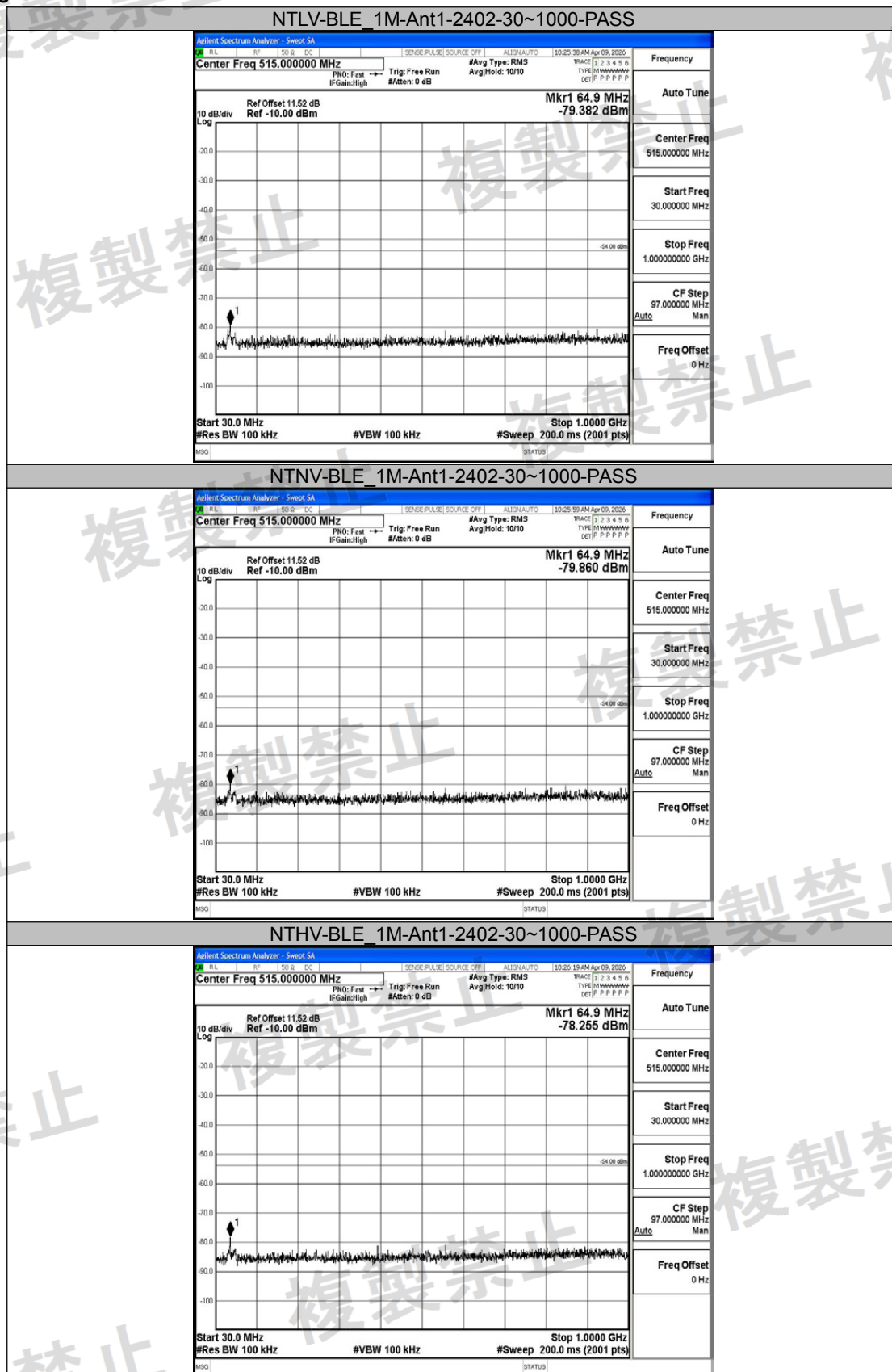
Note: SA set to from 2.4965GHz to 13GHz, plot shows from 2.497GHz to 13GHz as of SA's default format.

**Appendix F: Spurious Emission of RX****Test Result**

| TestCondition | TestMode | Antenna | Freq(MHz) | Freq.Range [MHz] | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [nW] | Limit [nW] | Verdict |
|---------------|----------|---------|-----------|------------------|-------------|--------------|-------------|-------------|------------|---------|
| NTLV          | BLE_1M   | Ant1    | 2402      | 30~1000          | 64.92       | -79.38       | ≤-54        | 0.01153     | ≤4         | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402      | 30~1000          | 64.92       | -79.86       | ≤-54        | 0.01033     | ≤4         | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402      | 30~1000          | 64.92       | -78.26       | ≤-54        | 0.01493     | ≤4         | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2402      | 1000~12500       | 3614.53     | -63.38       | ≤-47        | 0.45920     | ≤20        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2402      | 1000~12500       | 3634.65     | -63.79       | ≤-47        | 0.41783     | ≤20        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2402      | 1000~12500       | 3604.18     | -62.94       | ≤-47        | 0.50816     | ≤20        | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440      | 30~1000          | 64.92       | -79.28       | ≤-54        | 0.01180     | ≤4         | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440      | 30~1000          | 64.92       | -78.66       | ≤-54        | 0.01361     | ≤4         | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440      | 30~1000          | 63.95       | -79.48       | ≤-54        | 0.01127     | ≤4         | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2440      | 1000~12500       | 4799.60     | -63.49       | ≤-47        | 0.44771     | ≤20        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2440      | 1000~12500       | 3667.43     | -63.71       | ≤-47        | 0.42560     | ≤20        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2440      | 1000~12500       | 3600.73     | -63.49       | ≤-47        | 0.44771     | ≤20        | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480      | 30~1000          | 65.41       | -77.28       | ≤-54        | 0.01871     | ≤4         | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480      | 30~1000          | 64.92       | -77.45       | ≤-54        | 0.01799     | ≤4         | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480      | 30~1000          | 65.41       | -76.47       | ≤-54        | 0.02254     | ≤4         | PASS    |
| NTLV          | BLE_1M   | Ant1    | 2480      | 1000~12500       | 5295.83     | -62.91       | ≤-47        | 0.51168     | ≤20        | PASS    |
| NTNV          | BLE_1M   | Ant1    | 2480      | 1000~12500       | 3606.48     | -63.84       | ≤-47        | 0.41305     | ≤20        | PASS    |
| NTHV          | BLE_1M   | Ant1    | 2480      | 1000~12500       | 4826.05     | -63.46       | ≤-47        | 0.45082     | ≤20        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402      | 30~1000          | 64.92       | -77.32       | ≤-54        | 0.01854     | ≤4         | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402      | 30~1000          | 64.92       | -78.44       | ≤-54        | 0.01432     | ≤4         | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402      | 30~1000          | 64.92       | -77.29       | ≤-54        | 0.01866     | ≤4         | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2402      | 1000~12500       | 3604.18     | -63.55       | ≤-47        | 0.44157     | ≤20        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2402      | 1000~12500       | 4195.28     | -63.09       | ≤-47        | 0.49091     | ≤20        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2402      | 1000~12500       | 3634.08     | -63.85       | ≤-47        | 0.41210     | ≤20        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440      | 30~1000          | 64.92       | -77.53       | ≤-54        | 0.01766     | ≤4         | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440      | 30~1000          | 64.92       | -78.89       | ≤-54        | 0.01291     | ≤4         | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440      | 30~1000          | 65.41       | -76.97       | ≤-54        | 0.02009     | ≤4         | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2440      | 1000~12500       | 4069.93     | -63.51       | ≤-47        | 0.44566     | ≤20        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2440      | 1000~12500       | 3630.63     | -63.33       | ≤-47        | 0.46452     | ≤20        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2440      | 1000~12500       | 4851.93     | -62.81       | ≤-47        | 0.52360     | ≤20        | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480      | 30~1000          | 65.41       | -76.85       | ≤-54        | 0.02065     | ≤4         | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480      | 30~1000          | 64.92       | -78.50       | ≤-54        | 0.01413     | ≤4         | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480      | 30~1000          | 64.92       | -77.25       | ≤-54        | 0.01884     | ≤4         | PASS    |
| NTLV          | BLE_2M   | Ant1    | 2480      | 1000~12500       | 3613.38     | -63.35       | ≤-47        | 0.46238     | ≤20        | PASS    |
| NTNV          | BLE_2M   | Ant1    | 2480      | 1000~12500       | 3621.43     | -62.62       | ≤-47        | 0.54702     | ≤20        | PASS    |
| NTHV          | BLE_2M   | Ant1    | 2480      | 1000~12500       | 3629.48     | -63.44       | ≤-47        | 0.45290     | ≤20        | PASS    |

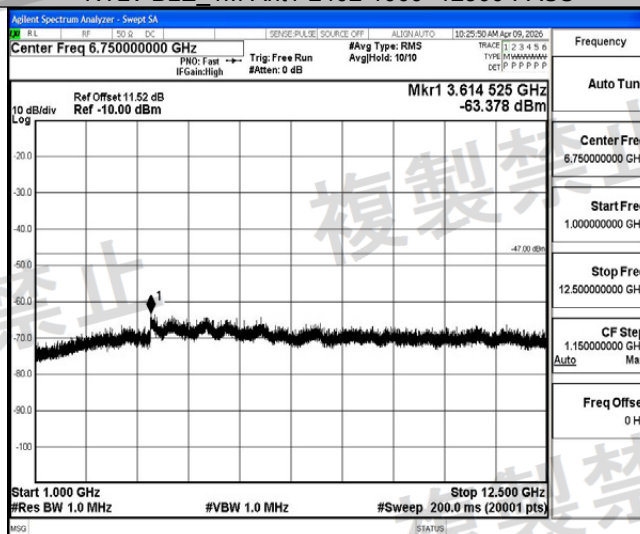


## Test Graphs

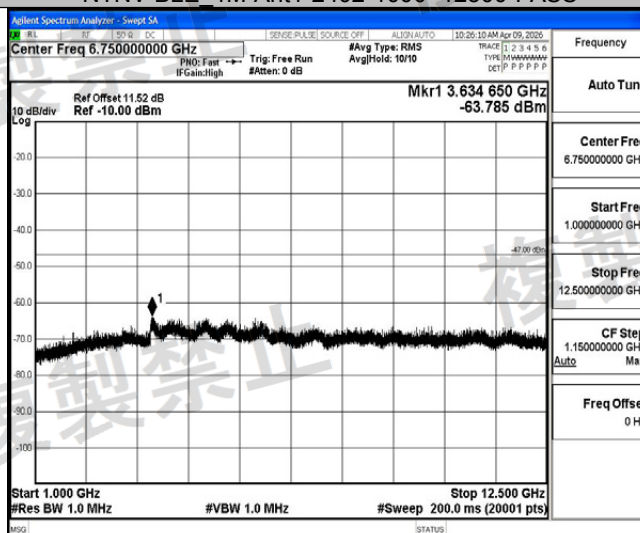




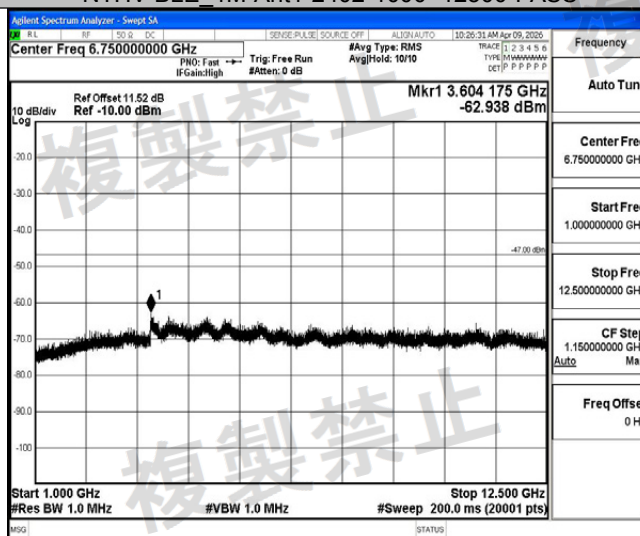
## NTLV-BLE\_1M-Ant1-2402-1000~12500-PASS



## NTNV-BLE\_1M-Ant1-2402-1000~12500-PASS

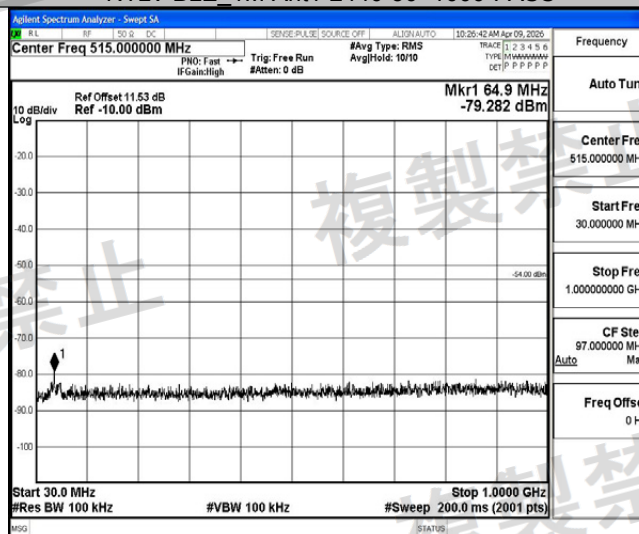


## NTHV-BLE\_1M-Ant1-2402-1000~12500-PASS

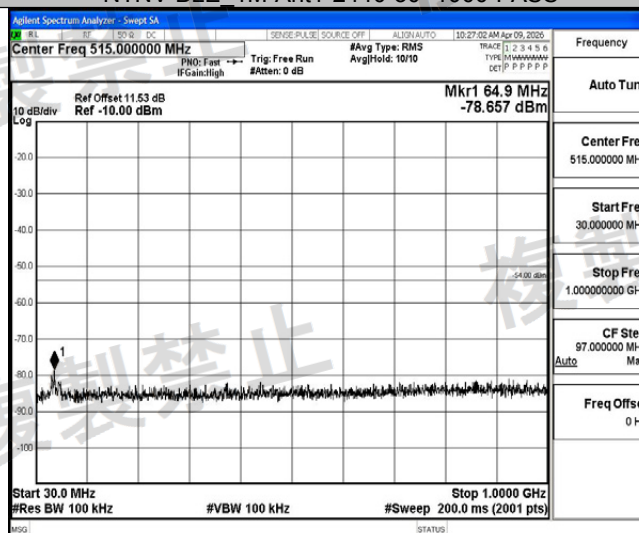




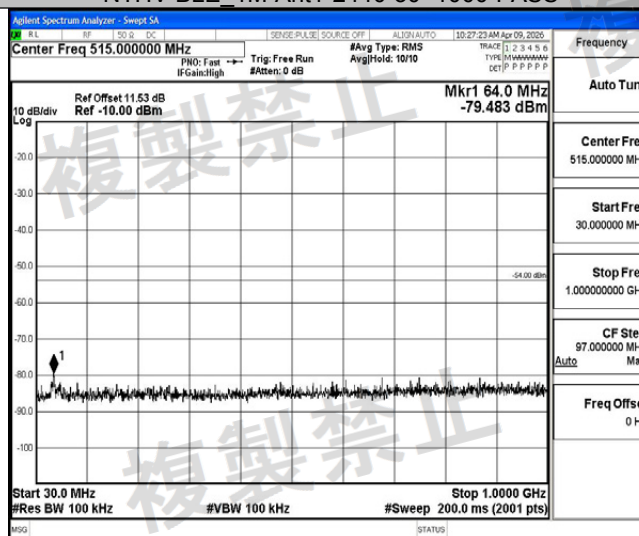
## NTLV-BLE\_1M-Ant1-2440-30~1000-PASS



## NTNV-BLE\_1M-Ant1-2440-30~1000-PASS

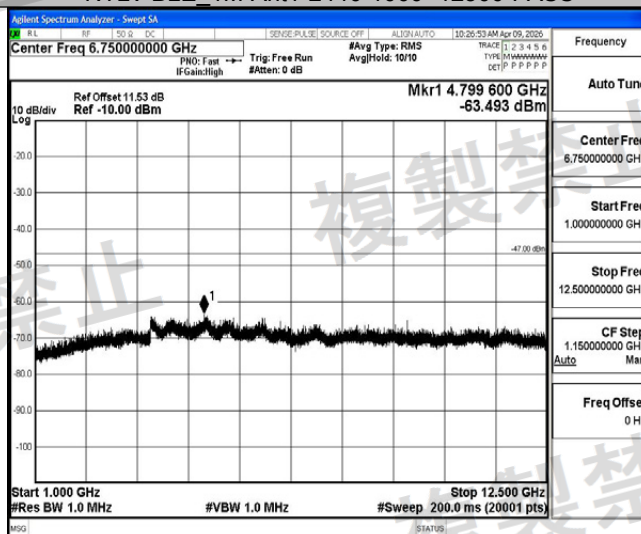


## NTHV-BLE\_1M-Ant1-2440-30~1000-PASS

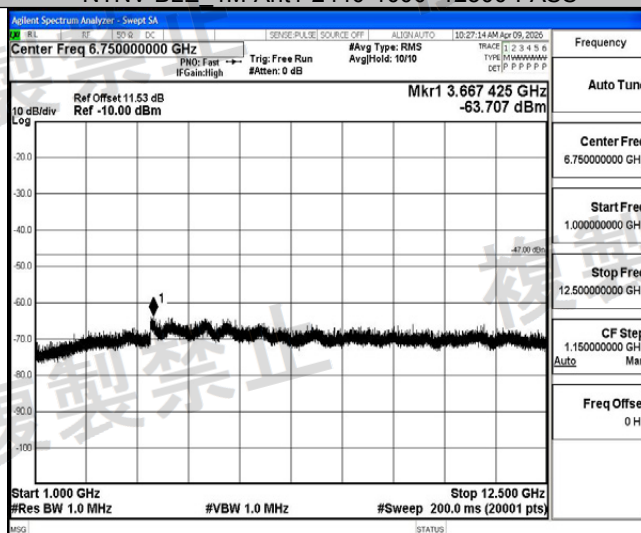




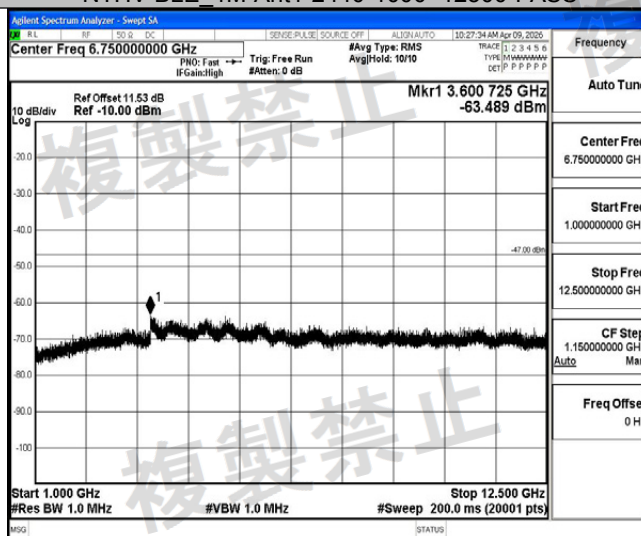
## NTLV-BLE\_1M-Ant1-2440-1000~12500-PASS



## NTNV-BLE\_1M-Ant1-2440-1000~12500-PASS

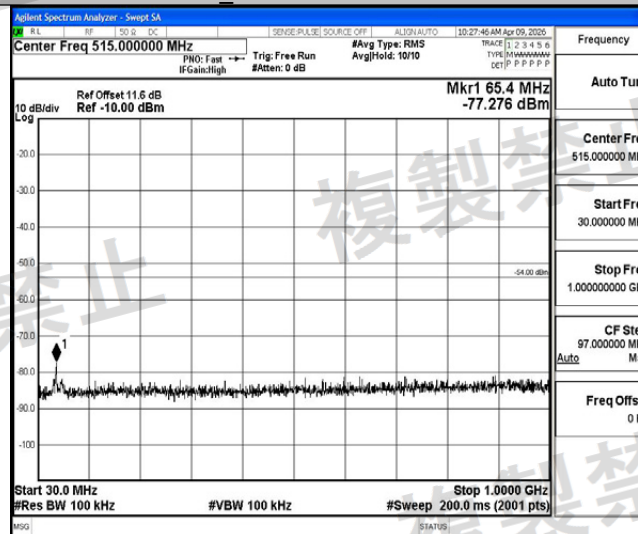


## NTHV-BLE\_1M-Ant1-2440-1000~12500-PASS

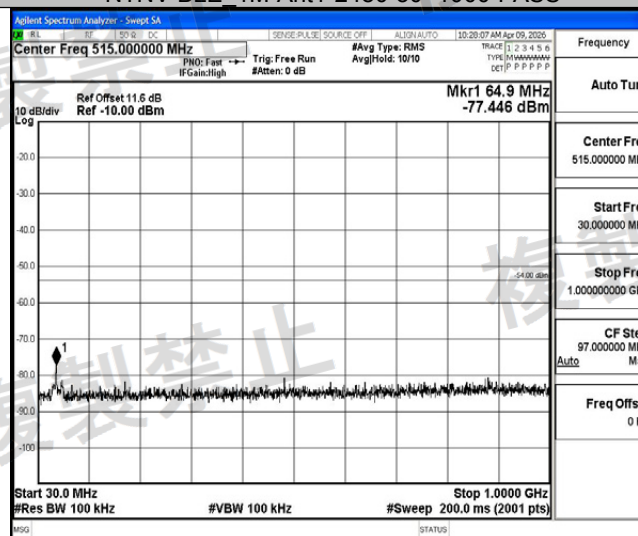




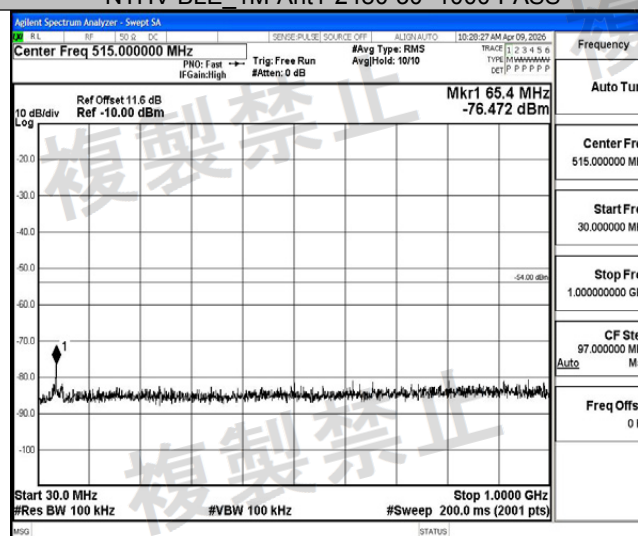
## NTLV-BLE\_1M-Ant1-2480-30~1000-PASS



## NTNV-BLE\_1M-Ant1-2480-30~1000-PASS

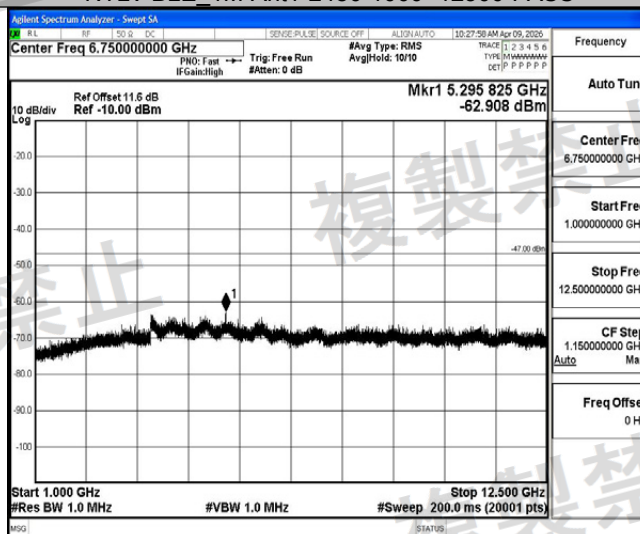


## NTHV-BLE\_1M-Ant1-2480-30~1000-PASS

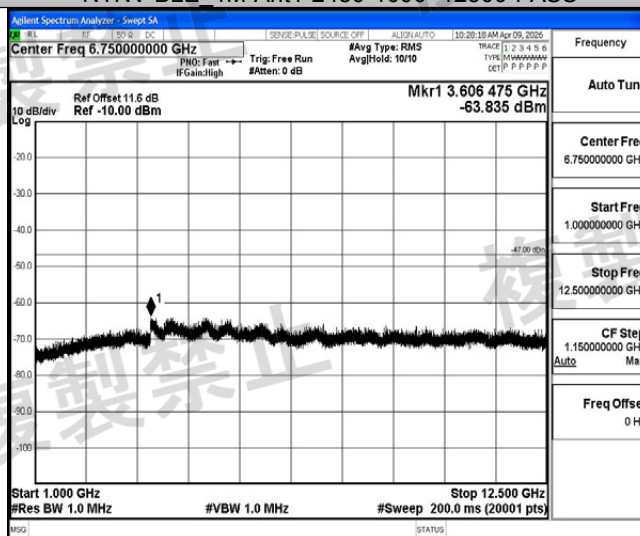




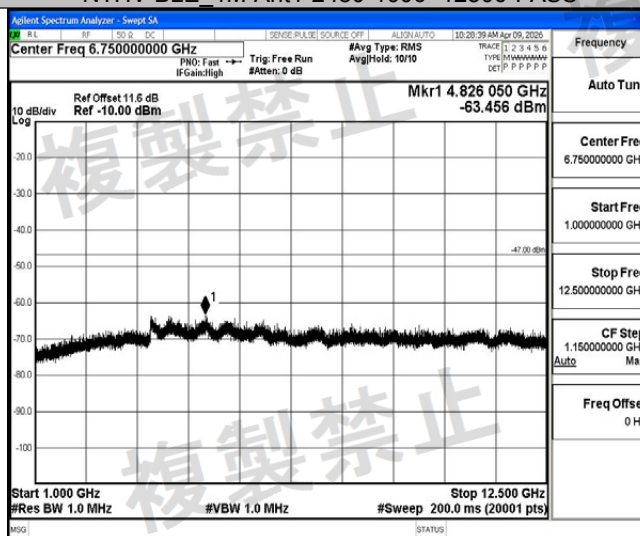
## NTLV-BLE\_1M-Ant1-2480-1000~12500-PASS



## NTNV-BLE\_1M-Ant1-2480-1000~12500-PASS

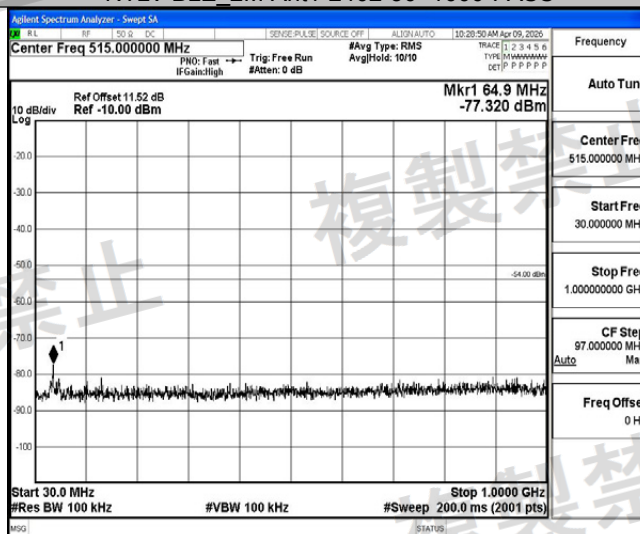


## NTHV-BLE\_1M-Ant1-2480-1000~12500-PASS

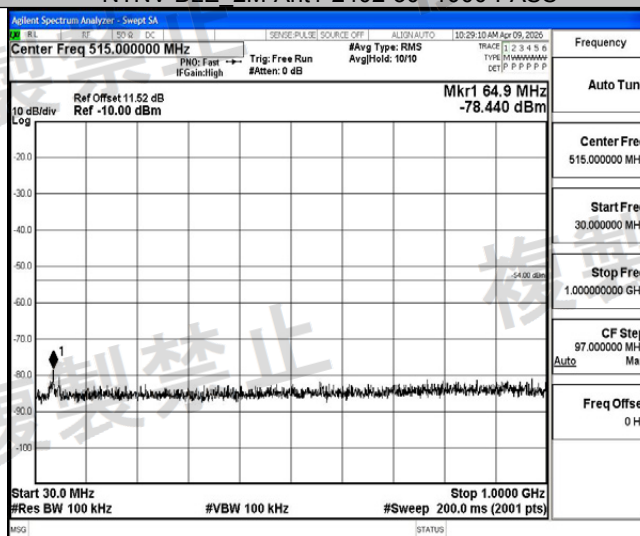




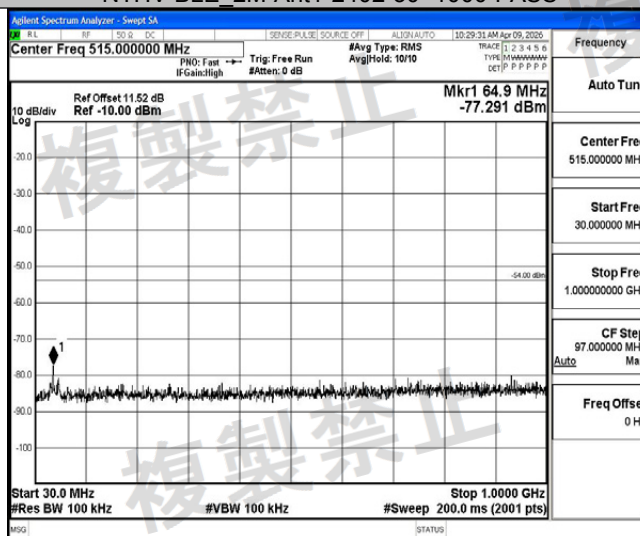
## NTLV-BLE\_2M-Ant1-2402-30~1000-PASS



## NTNV-BLE\_2M-Ant1-2402-30~1000-PASS

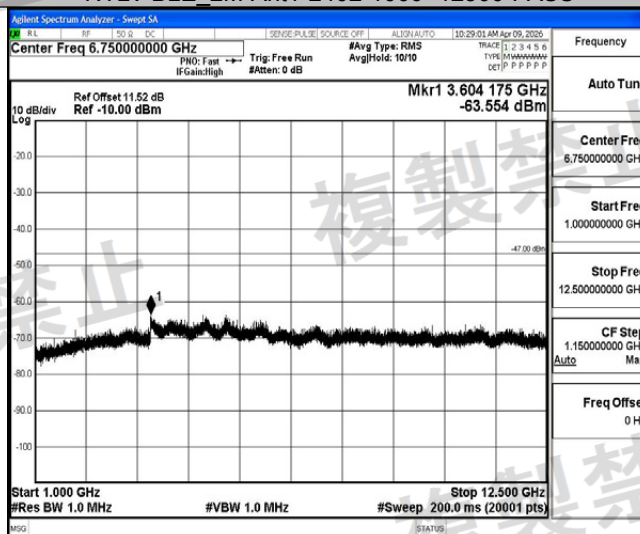


## NTHV-BLE\_2M-Ant1-2402-30~1000-PASS

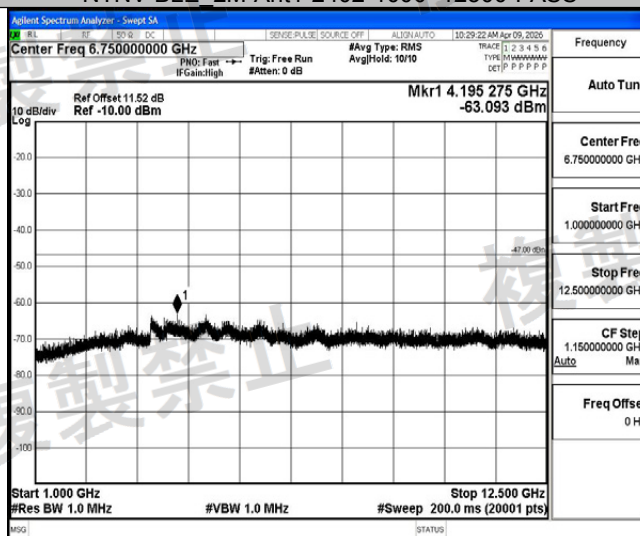




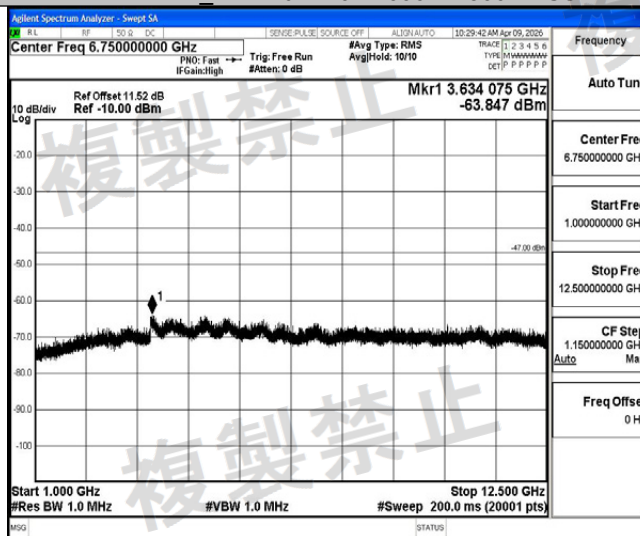
## NTLV-BLE\_2M-Ant1-2402-1000~12500-PASS



## NTNV-BLE\_2M-Ant1-2402-1000~12500-PASS

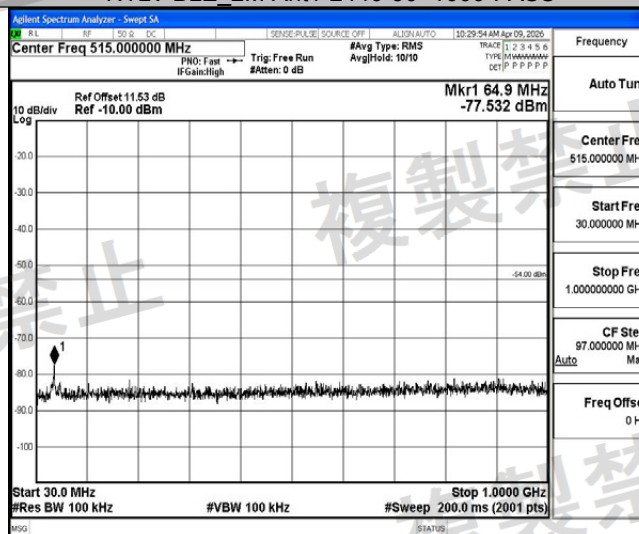


## NTHV-BLE\_2M-Ant1-2402-1000~12500-PASS

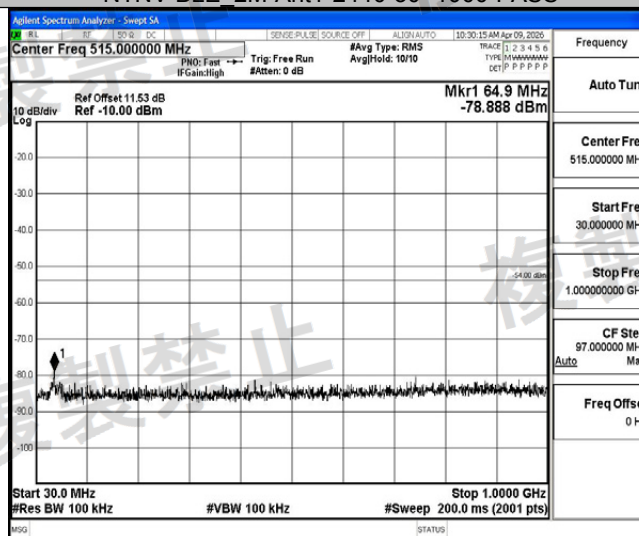




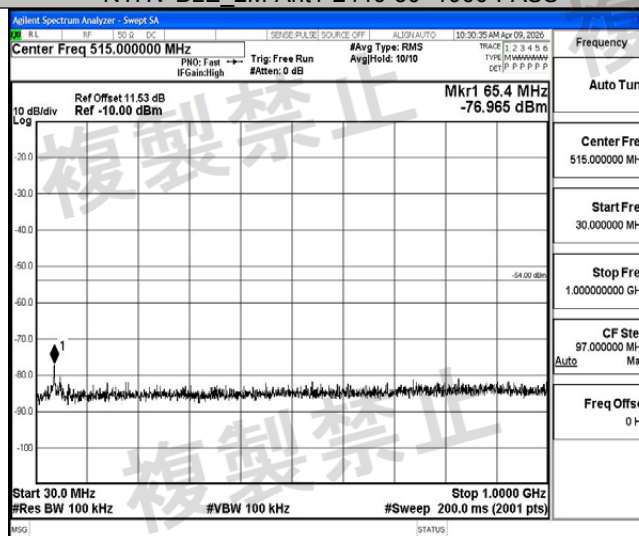
## NTLV-BLE\_2M-Ant1-2440-30~1000-PASS



## NTNV-BLE\_2M-Ant1-2440-30~1000-PASS

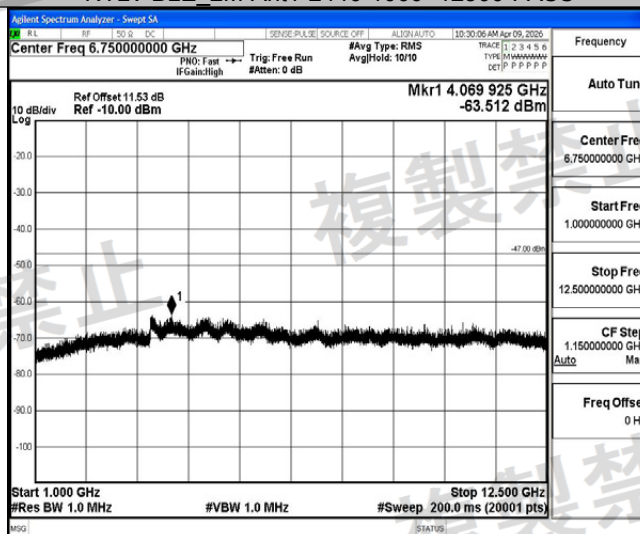


## NTHV-BLE\_2M-Ant1-2440-30~1000-PASS

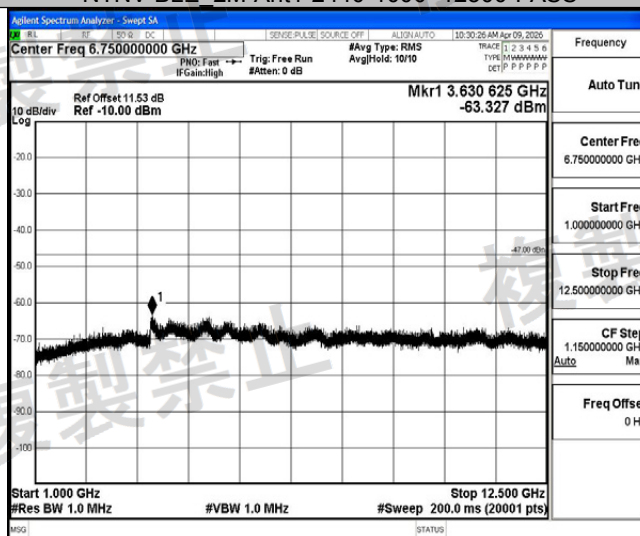




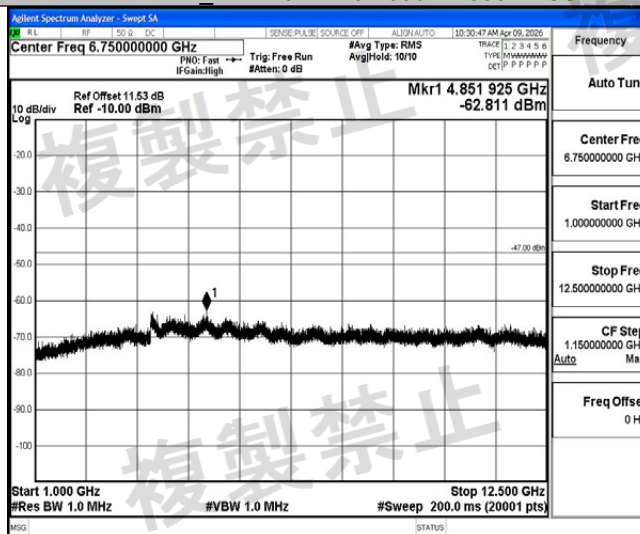
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## NTNV-BLE\_2M-Ant1-2440-1000~12500-PASS

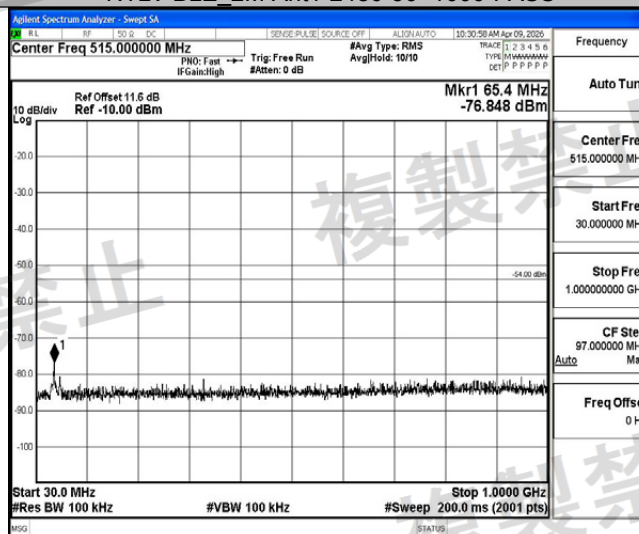


## NTHV-BLE\_2M-Ant1-2440-1000~12500-PASS

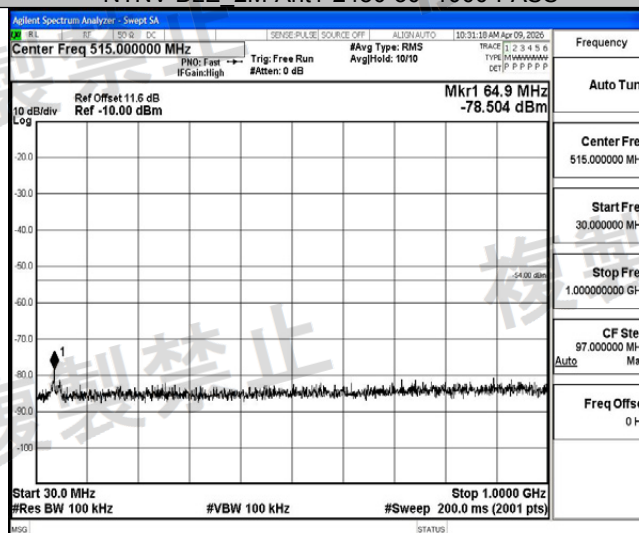




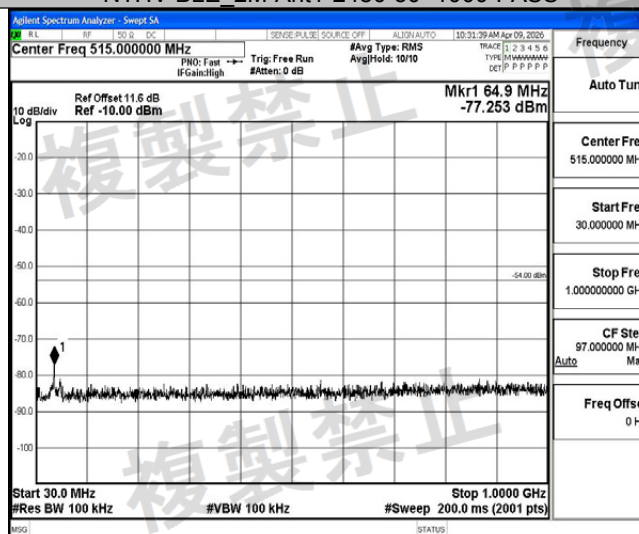
## NTLV-BLE\_2M-Ant1-2480-30~1000-PASS



## NTNV-BLE\_2M-Ant1-2480-30~1000-PASS

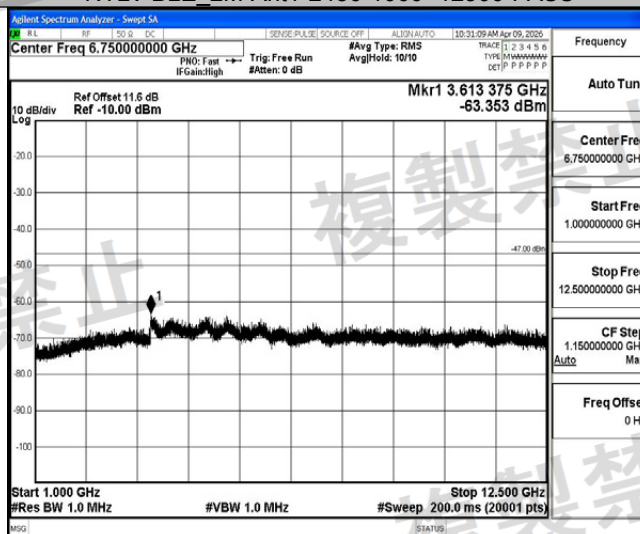


## NTHV-BLE\_2M-Ant1-2480-30~1000-PASS

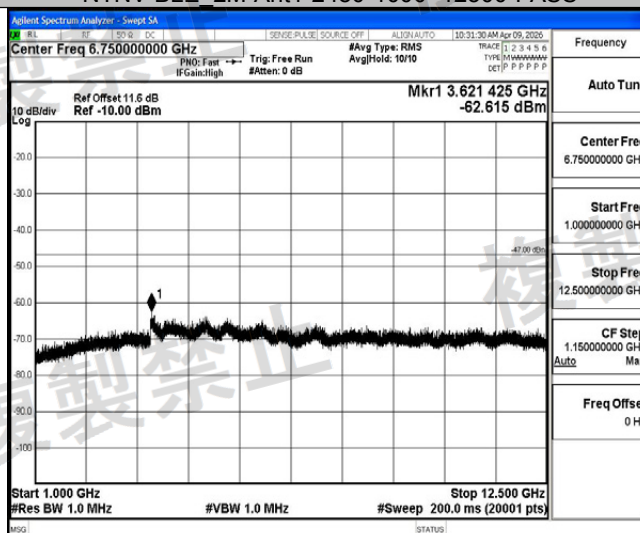




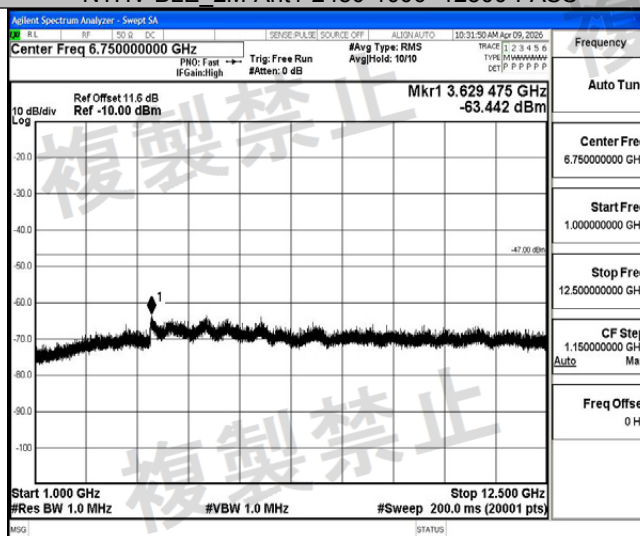
## NTLV-BLE\_2M-Ant1-2480-1000~12500-PASS



## NTNV-BLE\_2M-Ant1-2480-1000~12500-PASS



## NTHV-BLE\_2M-Ant1-2480-1000~12500-PASS



--- END REPORT ---