

# RF TEST REPORT

Test Report No.....: RF260327006-01-010

Product(s) Name.....: Car Dash Cam

Model(s).....: P2, P2A, P2B, P2C, P2D

Trade Mark.....: VANTRUE

Applicant.....: Shenzhen Sanjiang Lechuang Technology Co., Ltd.

Address.....: 25th Floor, Jinluan International Business Building, No. 98 Heping East  
Road, Sanlian Community, Longhua Street, Longhua District, Shenzhen,  
China.

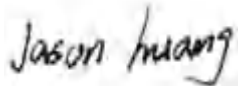
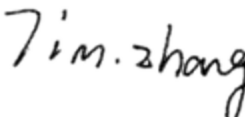
Receipt Date.....: 2026.03.31

Test Date.....: 2026.04.03 ~ 2026.04.27

Issued Date.....: 2026.04.28

Standards.....: MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19 Rules  
Section

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

| Prepared By:                                                                        | Checked By:                                                                         | Approved By:                                                                         |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Jason Huang                                                                         | Black Ding                                                                          | Tim Zhang                                                                            |                                                                                       |
|  |  |  |                                                                                       |

# Table of Contents

|                                                             |           |
|-------------------------------------------------------------|-----------|
| <b>HISTORY OF THIS TEST REPORT .....</b>                    | <b>3</b>  |
| <b>1. GENERAL INFORMATION.....</b>                          | <b>4</b>  |
| 1.1 Product Description for Equipment under Test (EUT)..... | 4         |
| 1.2 System Test Configuration.....                          | 5         |
| 1.3 Summary of Test Results.....                            | 7         |
| 1.4 List of Test and Measurement Instruments.....           | 8         |
| 1.5 Measurement Uncertainty .....                           | 8         |
| <b>2. FREQUENCY ERROR MEASUREMENT .....</b>                 | <b>9</b>  |
| 2.1 Limit.....                                              | 9         |
| 2.2 Test Procedures.....                                    | 9         |
| 2.3 Test Data.....                                          | 9         |
| <b>3. OCCUPIED BANDWIDTH (99%).....</b>                     | <b>12</b> |
| 3.1 Limit.....                                              | 12        |
| 3.2 Measurement Procedure.....                              | 12        |
| 3.3 Test Data.....                                          | 12        |
| <b>4. SPURIOUS EMISSION INTENSITY .....</b>                 | <b>28</b> |
| 4.1 Limit.....                                              | 28        |
| 4.2 Measurement Procedure.....                              | 28        |
| 4.3 Test Data.....                                          | 28        |
| <b>5. LIMIT OF SECONDARY SPURIOUS EMISSIONS .....</b>       | <b>29</b> |
| 5.1 Limit.....                                              | 29        |
| 5.2 Measurement Procedure.....                              | 29        |
| 5.3 Test Data.....                                          | 29        |
| <b>6. ANTENNA POWER MEASUREMENT .....</b>                   | <b>30</b> |
| 6.1 Limit.....                                              | 30        |
| 6.2 Measurement Procedure.....                              | 30        |
| 6.3 Test Data.....                                          | 30        |
| <b>7. CARRIER SENSE .....</b>                               | <b>32</b> |
| 7.1 Limit.....                                              | 32        |
| 7.2 Measurement Procedure.....                              | 32        |
| 7.3 Test Data.....                                          | 32        |
| <b>8. INTERFERENCE PREVENTION FUNCTION.....</b>             | <b>33</b> |
| 8.1 Standard Applicable .....                               | 33        |
| 8.2 Test Procedure .....                                    | 33        |
| 8.3 Summary of Test Results/Plots .....                     | 33        |

## History of this test report

Original Report Issue Date: 2026.04.28

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

| Attachment No. | Issue Date | Description |
|----------------|------------|-------------|
|                |            |             |
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# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment under Test (EUT)

|                         |                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Test sample no.         | POC260327006-S001                                                                                                                                  |
| Product name            | Car Dash Cam                                                                                                                                       |
| Model name              | P2, P2A, P2B, P2C, P2D                                                                                                                             |
| Trade Mark              | VANTRUE                                                                                                                                            |
| Power supply            | DC 12-24V from car charger                                                                                                                         |
| Car charger information | Input: DC 12-24V<br>USB Output: DC 5V 2A<br>WIRE Output: DC 5V 3A<br>Manufacturer: Vantrue                                                         |
| Radio Type              | WLAN                                                                                                                                               |
| Type of Modulation      | DSSS, OFDM, OFDMA                                                                                                                                  |
| Support Technical       | 802.11b, g, n20, n40, ax20, ax40                                                                                                                   |
| Frequency Range         | 2412-2472MHz                                                                                                                                       |
| Rated Power             | 1.5mW/MHz                                                                                                                                          |
| Antenna Type            | FPC Antenna                                                                                                                                        |
| Antenna Gain            | 1.34dBi                                                                                                                                            |
| Applicant               | SHENZHEN SANJIANG LECHUANG TECHNOLOGY CO., LTD                                                                                                     |
| Address                 | 25th Floor, Jinluan International Business Building, No. 98 Heping East Road, Sanlian Community, Longhua Street, Longhua District, Shenzhen, China |
| Manufacturer            | SHENZHEN SANJIANG LECHUANG TECHNOLOGY CO., LTD                                                                                                     |
| Address                 | 25th Floor, Jinluan International Business Building, No. 98 Heping East Road, Sanlian Community, Longhua Street, Longhua District, Shenzhen, China |
| Sample/EUT Status       | Good condition                                                                                                                                     |

## 1.2 System Test Configuration

### 1.2.1 Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2412            | 8       | 2447            |
| 2       | 2417            | 9       | 2452            |
| 3       | 2422            | 10      | 2457            |
| 4       | 2427            | 11      | 2462            |
| 5       | 2432            | 12      | 2467            |
| 6       | 2437            | 13      | 2472            |
| 7       | 2442            | /       | /               |

EUT was tested with Channel 1, 7 and 13 for 802.11b/g/n20/ax20, Channel 3, 7 and 11 for 802.11n40/ax40.

### 1.2.2 Transmit Operating Mode

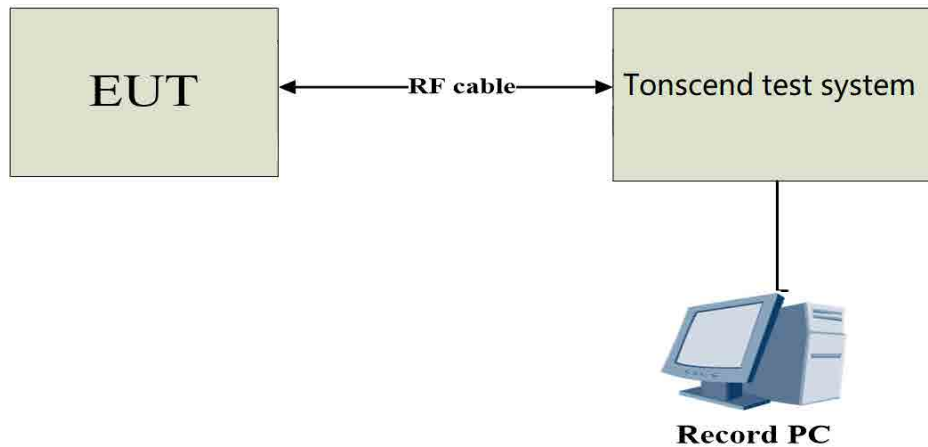
| Transmit Operating Mode          |                                                        |                |                                  |     |                       |     | Transmit Multiple Antennas       |     |                       |     |                       |     |
|----------------------------------|--------------------------------------------------------|----------------|----------------------------------|-----|-----------------------|-----|----------------------------------|-----|-----------------------|-----|-----------------------|-----|
| <input checked="" type="radio"/> | Operating mode 1 (single antenna)                      |                |                                  |     |                       |     | <input checked="" type="radio"/> | 1TX |                       |     |                       |     |
| <input type="radio"/>            | Operating mode 2 (multiple antenna, no beam forming)   |                |                                  |     |                       |     | <input type="radio"/>            | 2TX | <input type="radio"/> | 3TX | <input type="radio"/> | 4TX |
| <input type="radio"/>            | Operating mode 3 (multiple antenna, with beam forming) |                |                                  |     |                       |     | <input type="radio"/>            | 2TX | <input type="radio"/> | 3TX | <input type="radio"/> | 4TX |
| <input checked="" type="radio"/> | 802.11b                                                | Operating mode | <input checked="" type="radio"/> | 1TX | <input type="radio"/> | 2TX | <input type="radio"/>            | 3TX | <input type="radio"/> | 4TX |                       |     |
| <input checked="" type="radio"/> | 802.11g                                                | Operating mode | <input checked="" type="radio"/> | 1TX | <input type="radio"/> | 2TX | <input type="radio"/>            | 3TX | <input type="radio"/> | 4TX |                       |     |
| <input checked="" type="radio"/> | 802.11n(20MHz)                                         | Operating mode | <input checked="" type="radio"/> | 1TX | <input type="radio"/> | 2TX | <input type="radio"/>            | 3TX | <input type="radio"/> | 4TX |                       |     |
| <input checked="" type="radio"/> | 802.11n(40MHz)                                         | Operating mode | <input checked="" type="radio"/> | 1TX | <input type="radio"/> | 2TX | <input type="radio"/>            | 3TX | <input type="radio"/> | 4TX |                       |     |
| <input checked="" type="radio"/> | 802.11ax(20MHz)                                        | Operating mode | <input checked="" type="radio"/> | 1TX | <input type="radio"/> | 2TX | <input type="radio"/>            | 3TX | <input type="radio"/> | 4TX |                       |     |
| <input checked="" type="radio"/> | 802.11ax(40MHz)                                        | Operating mode | <input checked="" type="radio"/> | 1TX | <input type="radio"/> | 2TX | <input type="radio"/>            | 3TX | <input type="radio"/> | 4TX |                       |     |

Note: 802.11ax mode only support SU(full Ru) mode.

### 1.2.3 Support Equipment

| No. | Equipment | Model  | Manufacturer | Rating | Series No    |
|-----|-----------|--------|--------------|--------|--------------|
| 1   | PC        | M4500T | Thinkpad     | /      | M032004854IT |
|     |           |        |              |        |              |

### 1.2.4 Block Diagram of Configuration



### 1.2.5 Test Voltage

The EUT has its own voltage regulator principle to chip NT98530, the output voltage of the chip is 3.3V and the fluctuation of power supply to the RF circuit of EUT is equal to or less than +/- 1%. So exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

When an extreme voltage is supplied to the Car Dash Cam, the power deviation of the Car Dash Cam's output is less than 1%. Therefore, testing is only conducted under normal conditions.

| Condition | Input (V/DC) from car charger | The input voltage of the chip (V/DC) |
|-----------|-------------------------------|--------------------------------------|
| NV        | 12                            | 3.3                                  |
| LV        | 10.8                          | 3.3                                  |
| HV        | 13.2                          | 3.3                                  |

Note: Changing the external input does not affect the power supply voltage of the chip.

### 1.2.6 Environmental Conditions

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

- Temperature: 15~35°C
- Humidity: 45~75%
- Atmospheric pressure: 86-106 kPa

### 1.2.7 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 1.2.8 Special Accessories

Not available for this EUT intended for grant.

### 1.3 Summary of Test Results

| MIC Notice No.88<br>Appendix No.43<br>Article 2, Paragraph 1,<br>Item 19 Rules Section | Description of Test                             | Test result      |
|----------------------------------------------------------------------------------------|-------------------------------------------------|------------------|
| 3                                                                                      | Frequency Error                                 | Compliant        |
| 4                                                                                      | Occupied Bandwidth and Spreading Bandwidth      | Compliant        |
| 5                                                                                      | Spurious emission intensity                     | Compliant        |
| 6                                                                                      | Antenna Output Power and Output Power Tolerance | Compliant        |
| 7                                                                                      | Limit Of Secondary Spurious Emissions           | Compliant        |
| 8                                                                                      | Transmission Antenna Gain                       | Not Applicable   |
| 9                                                                                      | Transmission Radiation Angle Width              | Not Applicable   |
| 10                                                                                     | Carrier Sensing Function(1)                     | Not Applicable*  |
|                                                                                        | Carrier Sensing Function(2)                     | Compliant        |
| 11                                                                                     | Frequency Hopping Dwell Time                    | Not Applicable** |
| 12                                                                                     | Interference Prevention Function                | Compliant        |
| Note                                                                                   | Construction Protection Confirmation            | Compliant        |

#### Not Applicable

- For 802.11b/g/n20/ax20 mode, this test item was not required for the output power less than 12.14 dBm/MHz (E.I.R.P); For 802.11n40/ax40 mode, this test item was not required for the output power less than 9.13 dBm/MHz (E.I.R.P)

#### Not Applicable\*

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

- Carrier Sensing Function (2): Application to transmitting devices with OFDM modulation and the occupied bandwidth greater than 26MHz.

#### Not Applicable\*\*

- Testing is only required for FHSS system devices.

## 1.4 List of Test and Measurement Instruments

| Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Manufacturer | Model No              | Serial No. | Last Cal. | Cal Due Date | Calibration body                                    | Classification |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|------------|-----------|--------------|-----------------------------------------------------|----------------|
| VXG Signal Generator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Keysight     | N5182B                | MY59100855 | 2025/4/18 | 2026/4/17    | Guangzhou Lisai Metrology & Test co. ,Ltd.          | (c)            |
| VXG Signal Generator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Keysight     | N5182B                | MY59100855 | 2026/4/14 | 2027/4/13    |                                                     |                |
| MXA Signal Analyzer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Keysight     | N9010A                | MY51440158 | 2025/9/15 | 2026/9/14    | CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd |                |
| RF Control Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | dsusoft      | JS0806-2              | 21G8060449 | 2026/2/27 | 2027/2/26    |                                                     |                |
| EXG Analog Signal Generator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Keysight     | N5173B                | MY59101282 | 2026/2/27 | 2027/2/26    |                                                     |                |
| power supply unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dsusoft      | JS0806-4ADC           | N/A        | 2026/2/27 | 2027/2/26    |                                                     |                |
| Temp&Humidity Recorder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Meideshi     | /                     | /          | 2025/4/18 | 2026/4/17    |                                                     |                |
| Temp&Humidity Recorder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Meideshi     | /                     | /          | 2026/4/08 | 2027/4/07    |                                                     |                |
| 10dB Attenuator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tonscend     | 10dB                  | NA         | Each Time |              |                                                     |                |
| Test software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | dsusoft      | JS1120-3 Ver.3.2.22.0 |            |           |              |                                                     |                |
| Remark:<br>(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.<br>(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992) .<br>(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).<br>(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).<br>From JRL Article 24-2, paragraph 4, Item 2 |              |                       |            |           |              |                                                     |                |

## 1.5 Measurement Uncertainty

| Uncertainty                 |                         |
|-----------------------------|-------------------------|
| Parameter                   | Uncertainty             |
| Occupied Channel Bandwidth  | ±102kHz                 |
| Frequency Error             | ±6.5 x 10 <sup>-8</sup> |
| RF power conducted          | ±0.243dB                |
| Power Spectral Density      | ±0.743dB                |
| Conducted Spurious Emission | ±1.328dB                |
| Time                        | ±0.19%                  |

*This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2*

## 2. Frequency Error Measurement

### Limit

| Standard            | Item                   | Limit          |
|---------------------|------------------------|----------------|
| Article 2-1 Item 19 | Tolerance of Frequency | ±50ppm or less |

### 2.2 Test Procedures

- Connect EUT antenna terminal to the Spectrum Analyzer.
- Set Spectrum Analyzer as below:

Frequency : Test Frequency  
SPAN : 500kHz  
RBW : 10kHz  
VBW : 10kHz  
Sweep Time : Auto  
Detector Mode : Peak  
Display Mode : Max Hold

### 2.3 Test Data

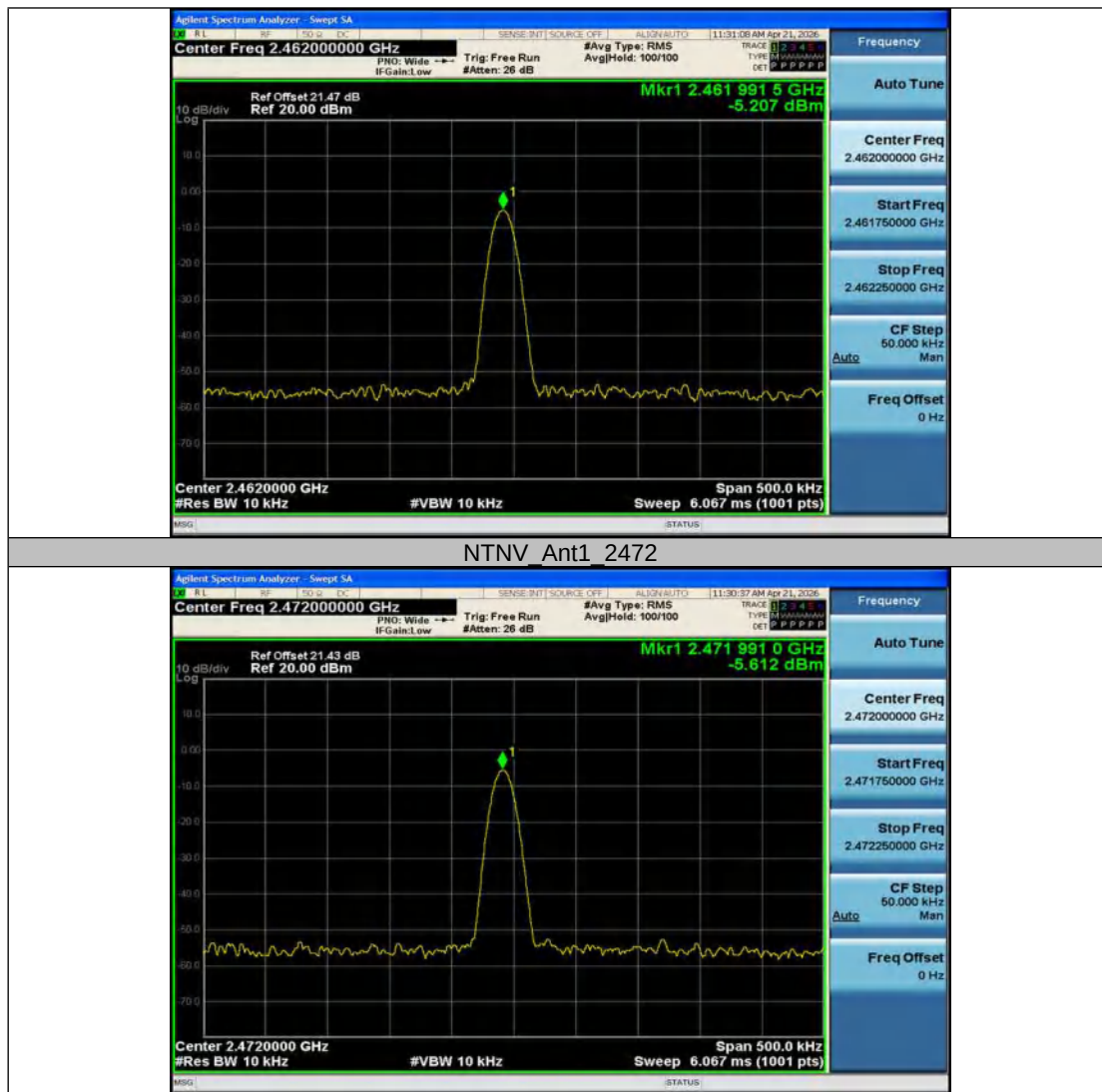
|              |          |             |            |
|--------------|----------|-------------|------------|
| Temperature  | 22.2℃    | Humidity    | 51 %       |
| ATM Pressure | 101.2kPa | Time        | 2026.04.21 |
| Test by      | Elio Lin | Test result | PASS       |

Please refer to following tables.

| Test Condition                                          | Antenna | Freq(MHz) | Test frequency result(MHz) | Result[ppm] | Limit[ppm] | Verdict |
|---------------------------------------------------------|---------|-----------|----------------------------|-------------|------------|---------|
| NTNV                                                    | Ant1    | 2412      | 2411.9910                  | -3.73134    | ±50        | PASS    |
|                                                         | Ant1    | 2422      | 2421.9915                  | -3.50950    | ±50        | PASS    |
|                                                         | Ant1    | 2442      | 2441.9915                  | -3.48075    | ±50        | PASS    |
|                                                         | Ant1    | 2462      | 2461.9915                  | -3.45248    | ±50        | PASS    |
|                                                         | Ant1    | 2472      | 2471.9910                  | -3.64078    | ±50        | PASS    |
| Note: The EUT was programmed in un-modulation function. |         |           |                            |             |            |         |

Please refer to recording the spectrum plots in the worst conditions





### 3. Occupied Bandwidth (99%)

#### Limit

| Standard            | Type   | Limit    |
|---------------------|--------|----------|
| Article 2-1 Item 19 | FHSS   | ≤83.5MHz |
|                     | DSSS   | ≤26MHz   |
|                     | OFDM   | ≤38MHz   |
|                     | others | ≤26MHz   |

#### 3.2 Measurement Procedure

- Connect EUT antenna terminal to the Spectrum Analyzer.
- Set Spectrum Analyzer as below:

Frequency : Test Frequency  
SPAN : 40MHz / 80MHz  
RBW : 300kHz  
VBW : 300kHz  
Sweep Time : Auto  
Detector Mode : Peak  
Display Mode : Max Hold  
OBW : 99%

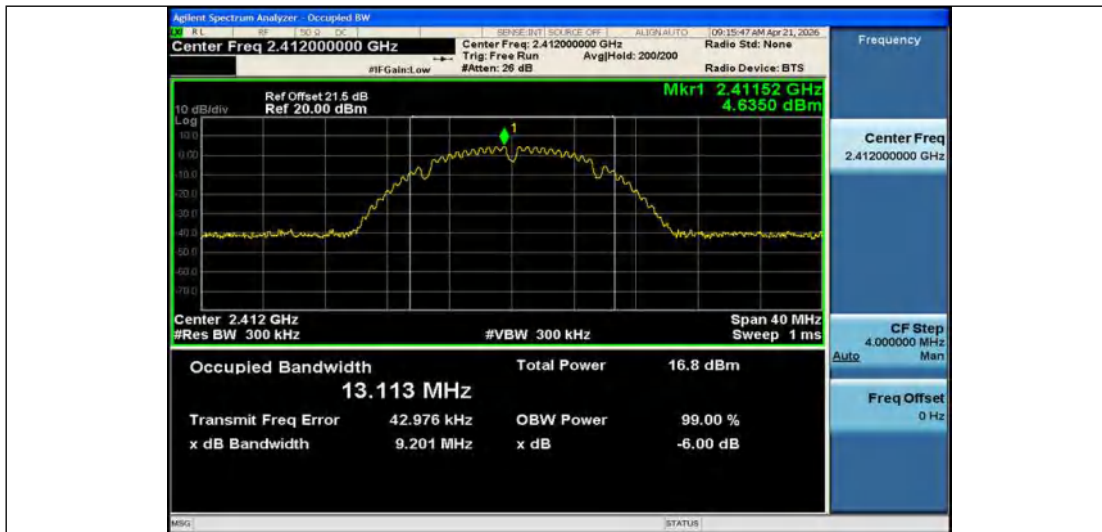
#### 3.3 Test Data

|              |          |             |            |
|--------------|----------|-------------|------------|
| Temperature  | 22.2℃    | Humidity    | 51 %       |
| ATM Pressure | 101.2kPa | Time        | 2026.04.21 |
| Test by      | Elio Lin | Test result | PASS       |

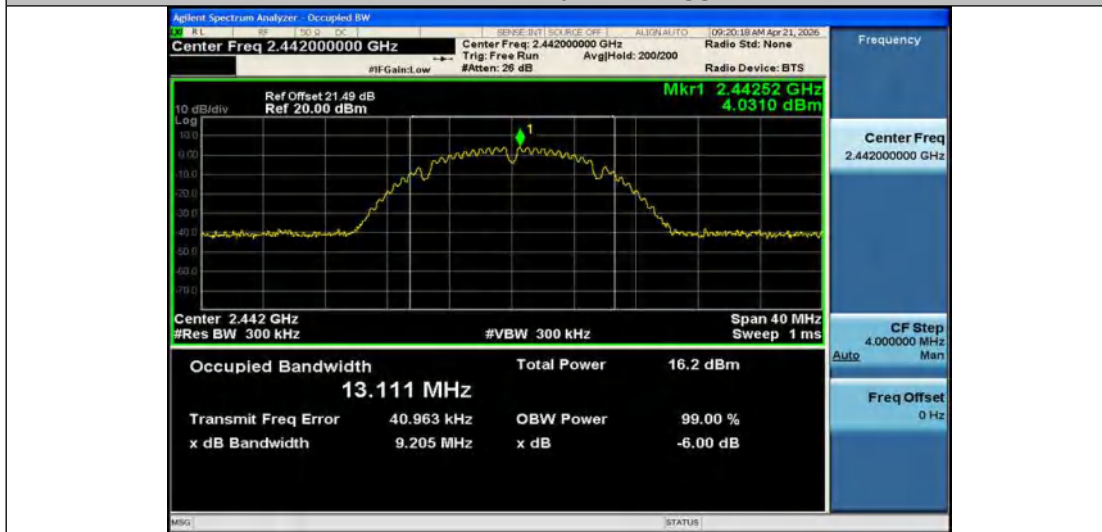
Please refer to following tables.

| Test Condition | Test Mode  | Antenna | Frequency[MHz] | Result [MHz] | Limit [MHz] | Verdict |
|----------------|------------|---------|----------------|--------------|-------------|---------|
| NTNV           | 11B        | Ant1    | 2412           | 13.113       | ≤26         | PASS    |
| NTNV           | 11B        | Ant1    | 2442           | 13.111       | ≤26         | PASS    |
| NTNV           | 11B        | Ant1    | 2472           | 13.083       | ≤26         | PASS    |
| NTNV           | 11G        | Ant1    | 2412           | 16.802       | ≤26         | PASS    |
| NTNV           | 11G        | Ant1    | 2442           | 16.807       | ≤26         | PASS    |
| NTNV           | 11G        | Ant1    | 2472           | 16.810       | ≤26         | PASS    |
| NTNV           | 11N20SISO  | Ant1    | 2412           | 18.050       | ≤26         | PASS    |
| NTNV           | 11N20SISO  | Ant1    | 2442           | 18.048       | ≤26         | PASS    |
| NTNV           | 11N20SISO  | Ant1    | 2472           | 18.006       | ≤26         | PASS    |
| NTNV           | 11N40SISO  | Ant1    | 2422           | 36.189       | 26-40       | PASS    |
| NTNV           | 11N40SISO  | Ant1    | 2442           | 36.183       | 26-40       | PASS    |
| NTNV           | 11N40SISO  | Ant1    | 2462           | 36.210       | 26-40       | PASS    |
| NTNV           | 11AX20SISO | Ant1    | 2412           | 19.029       | ≤26         | PASS    |
| NTNV           | 11AX20SISO | Ant1    | 2442           | 19.103       | ≤26         | PASS    |
| NTNV           | 11AX20SISO | Ant1    | 2472           | 19.111       | ≤26         | PASS    |
| NTNV           | 11AX40SISO | Ant1    | 2422           | 37.736       | 26-40       | PASS    |
| NTNV           | 11AX40SISO | Ant1    | 2442           | 37.736       | 26-40       | PASS    |
| NTNV           | 11AX40SISO | Ant1    | 2462           | 37.842       | 26-40       | PASS    |

Please refer to recording the spectrum plots in the worst conditions



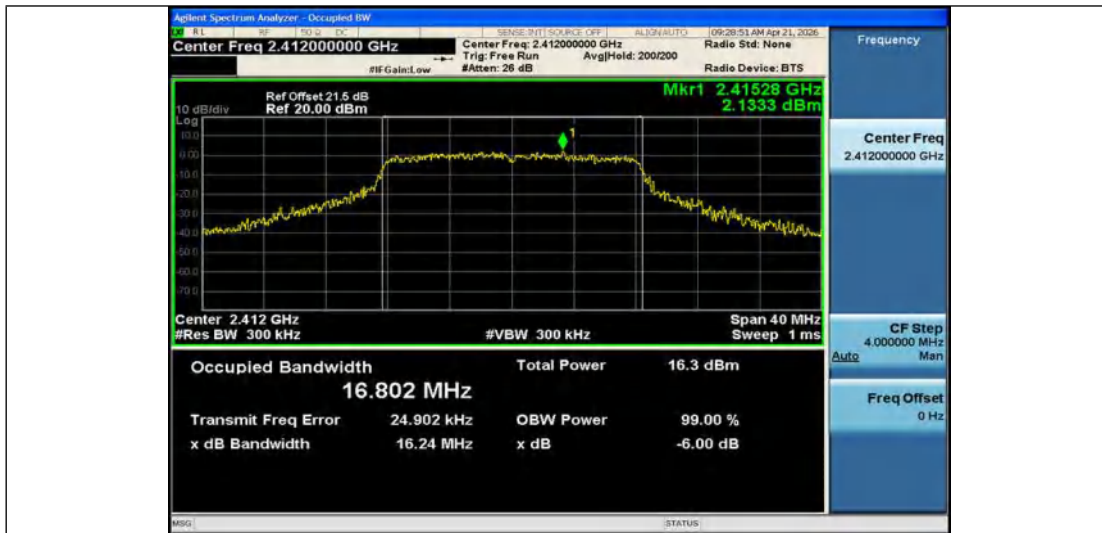
NTNV-11B-Ant1-2412-PASS



NTNV-11B-Ant1-2442-PASS



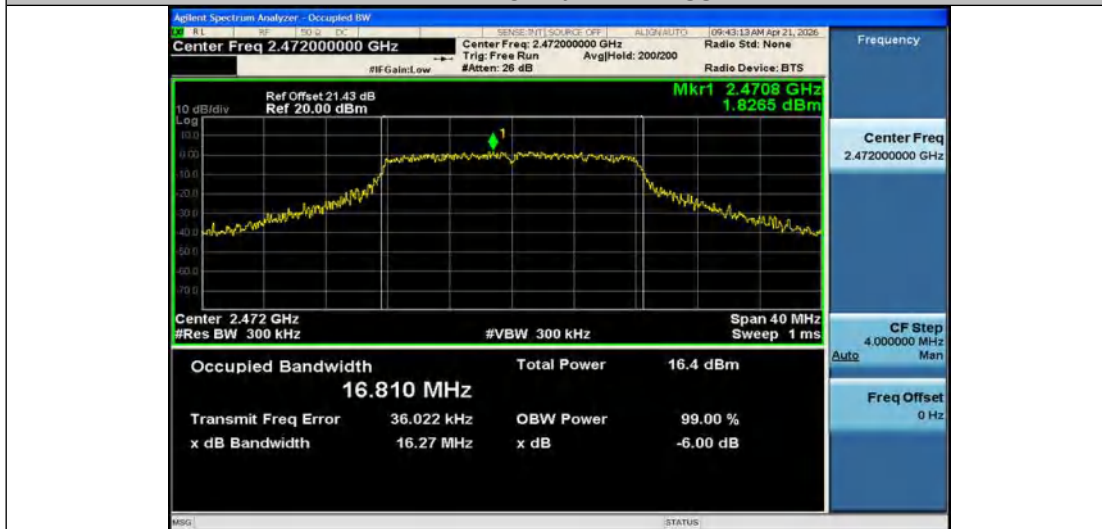
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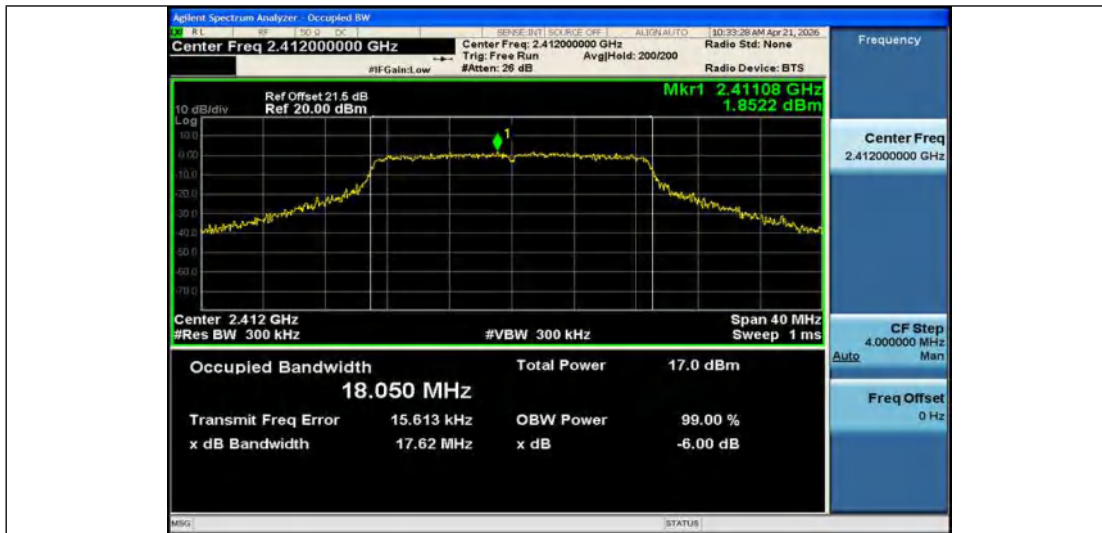
NTNV-11G-Ant1-2412-PASS



NTNV-11G-Ant1-2442-PASS



NTNV-11G-Ant1-2472-PASS



NTNV-11N20SISO-Ant1-2412-PASS



NTNV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2472-PASS



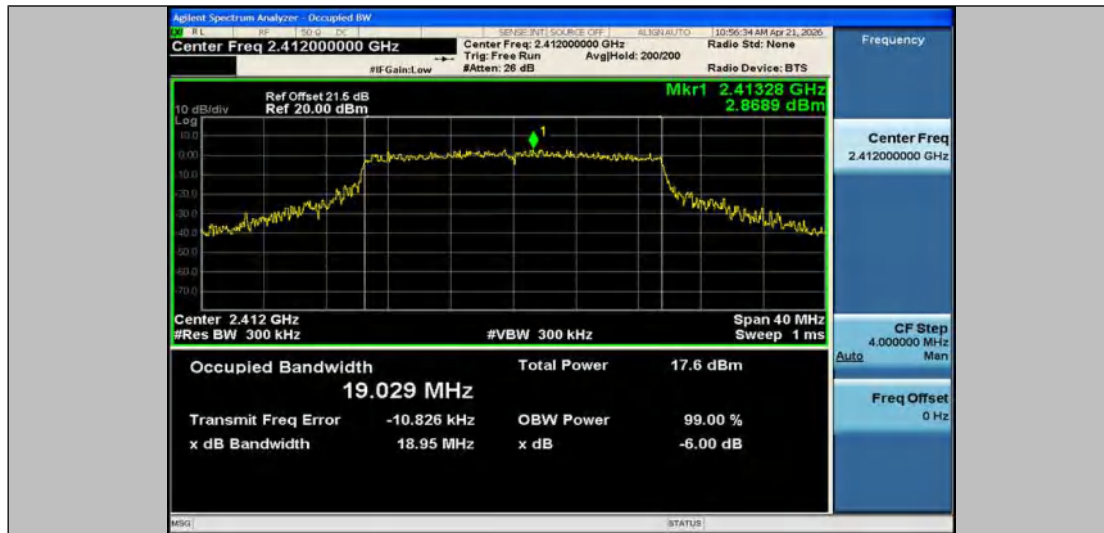
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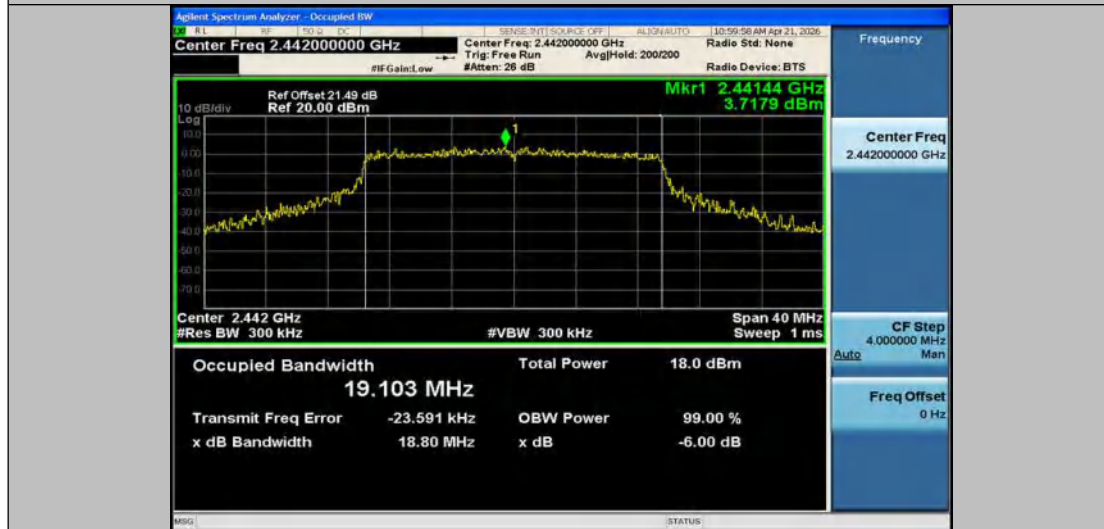
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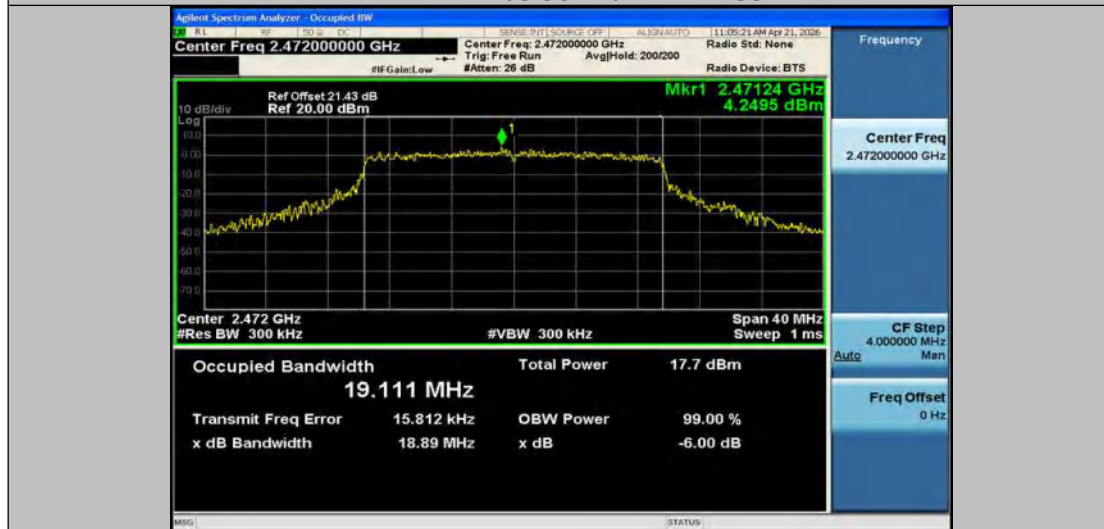
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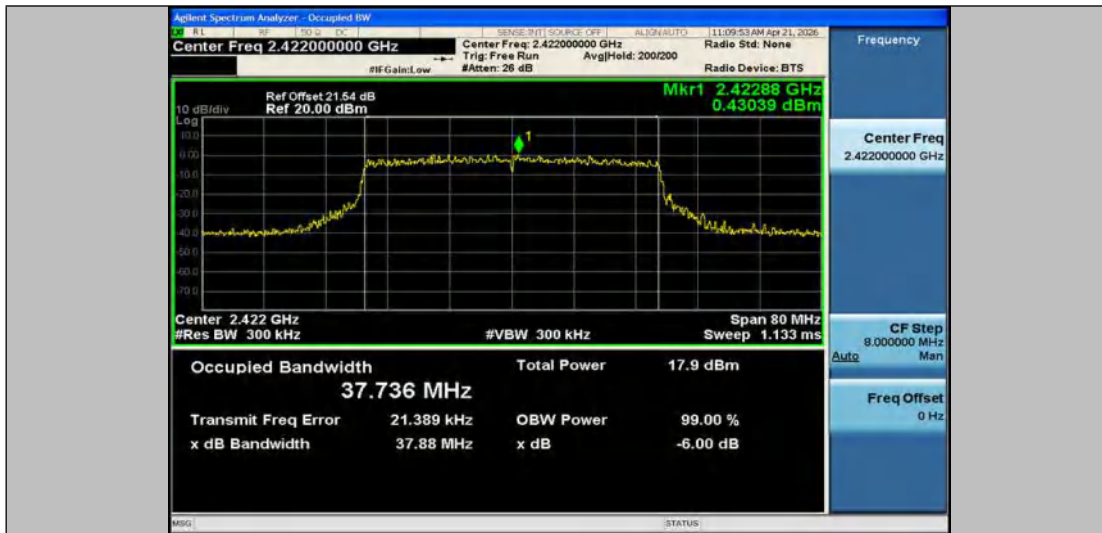
NTVN-11AX20SISO-Ant1-2412-PASS



NTVN-11AX20SISO-Ant1-2442-PASS



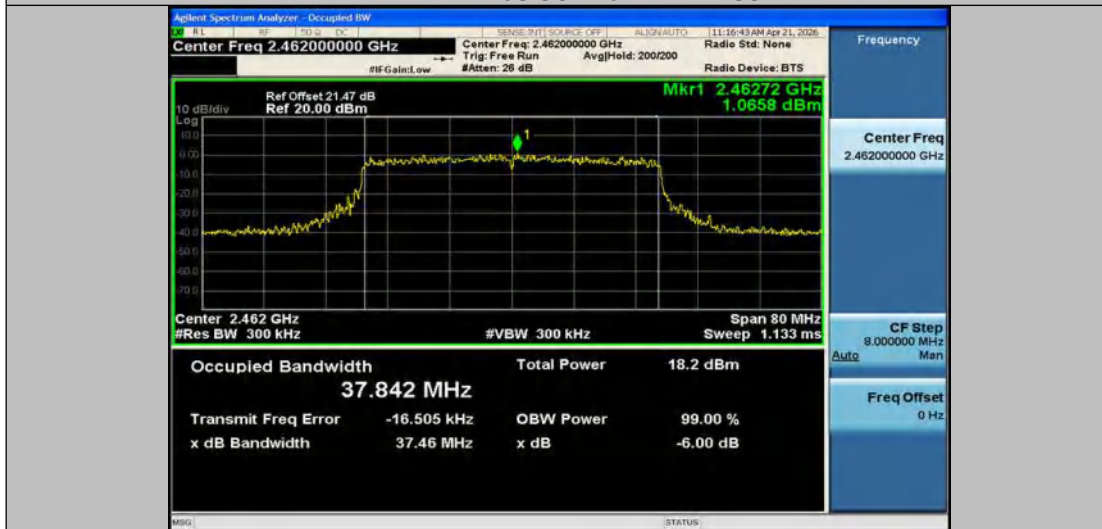
NTVN-11AX20SISO-Ant1-2472-PASS



NTNV-11AX40SISO-Ant1-2422-PASS



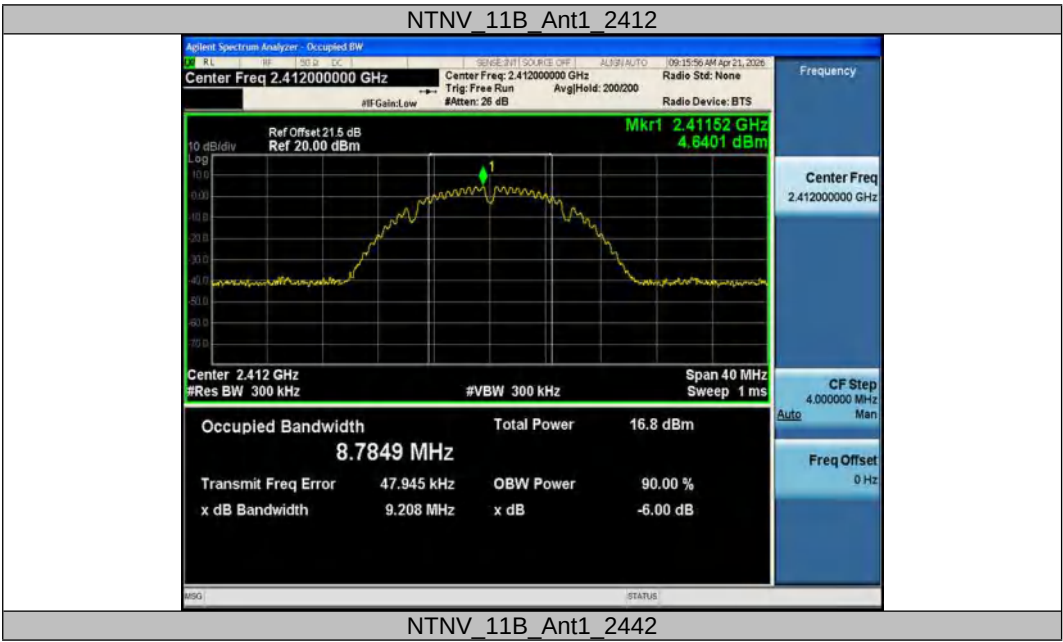
NTNV-11AX40SISO-Ant1-2442-PASS



NTNV-11AX40SISO-Ant1-2462-PASS

Spread Bandwidth:

| Test Condition | Test Mode  | Antenna | Freq(MHz) | Result [MHz] |
|----------------|------------|---------|-----------|--------------|
| NTNV           | 11B        | Ant1    | 2412      | 8.785        |
|                |            |         | 2442      | 8.782        |
|                |            |         | 2472      | 8.747        |
|                | 11G        | Ant1    | 2412      | 14.410       |
|                |            |         | 2442      | 14.478       |
|                |            |         | 2472      | 14.496       |
|                | 11N20SISO  | Ant1    | 2412      | 15.491       |
|                |            |         | 2442      | 15.323       |
|                |            |         | 2472      | 15.495       |
|                | 11N40SISO  | Ant1    | 2422      | 31.723       |
|                |            |         | 2442      | 31.682       |
|                |            |         | 2462      | 31.983       |
|                | 11AX20SISO | Ant1    | 2412      | 16.656       |
|                |            |         | 2442      | 16.647       |
|                |            |         | 2472      | 16.537       |
| 11AX40SISO     | Ant1       | 2422    | 33.116    |              |
|                |            | 2442    | 32.610    |              |
|                |            | 2462    | 32.764    |              |

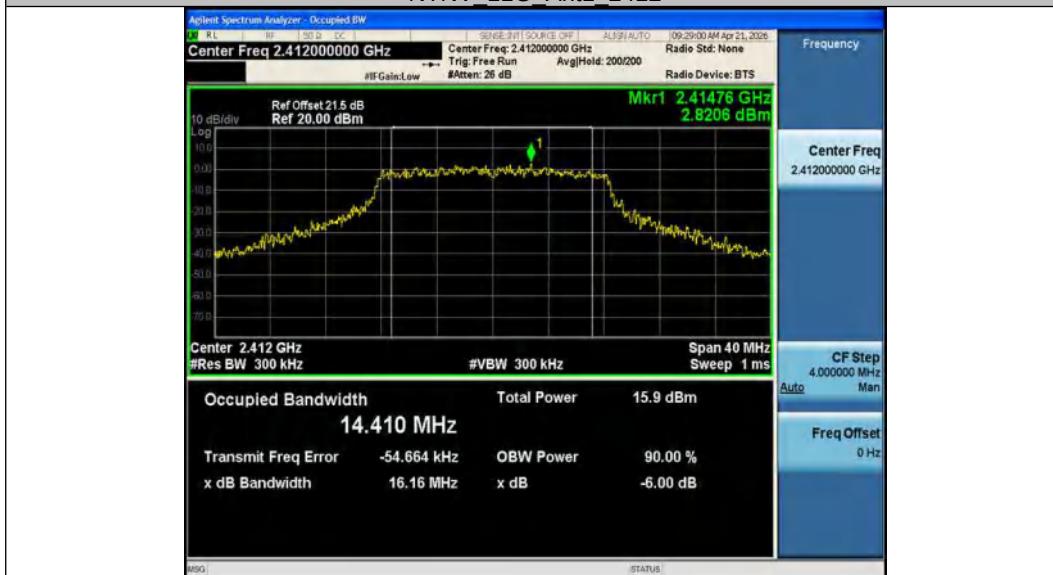




NTNV\_11B\_Ant1\_2472



NTNV\_11G\_Ant1\_2412



# NTNV\_11G\_Ant1\_2442



# NTNV\_11G\_Ant1\_2472



# NTNV\_11N20SISO\_Ant1\_2412



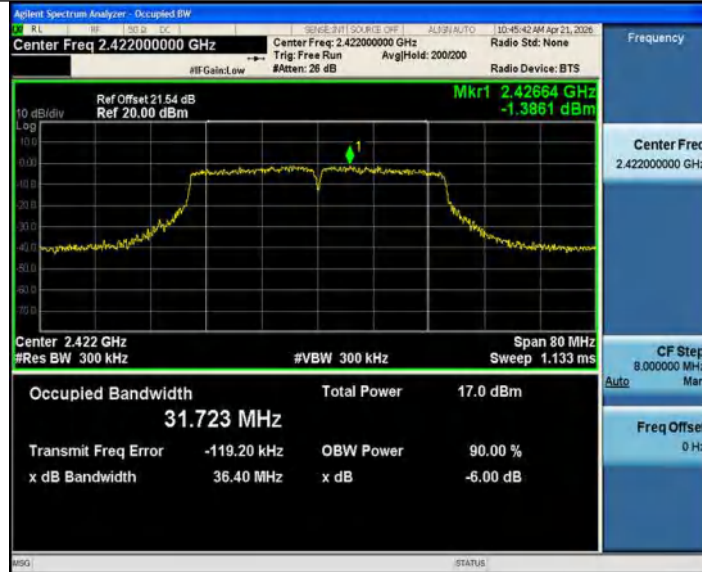
NTNV\_11N20SISO\_Ant1\_2442



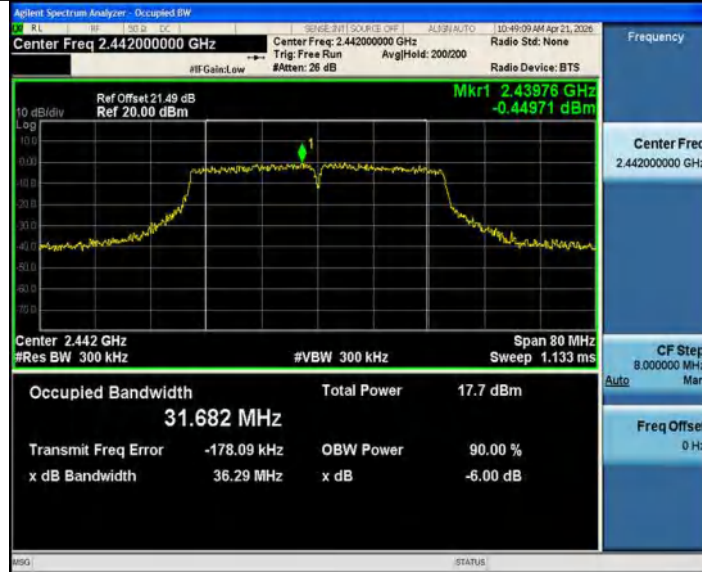
NTNV\_11N20SISO\_Ant1\_2472



NTNV\_11N40SISO\_Ant1\_2422



NTNV\_11N40SISO\_Ant1\_2442



NTNV\_11N40SISO\_Ant1\_2462



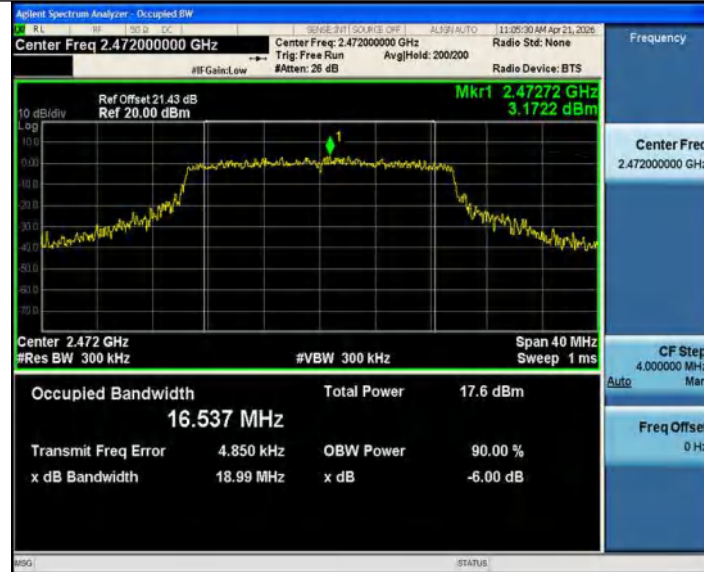
NTNV\_11AX20SISO\_Ant1\_2412



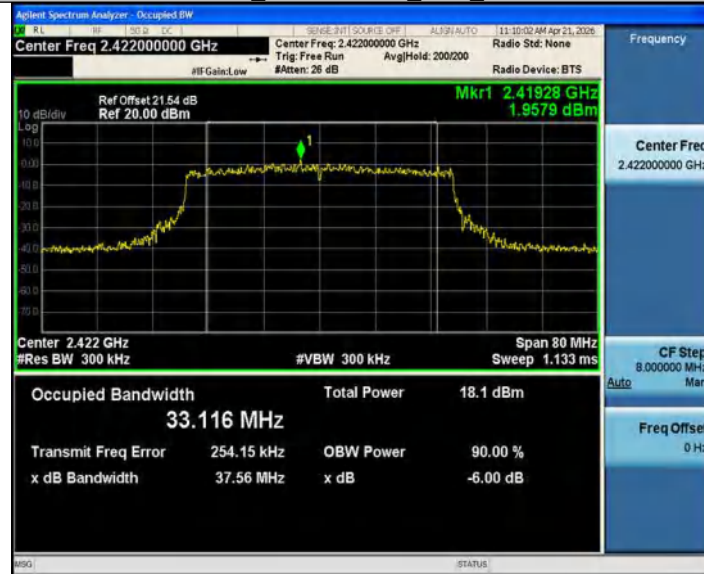
NTNV\_11AX20SISO\_Ant1\_2442



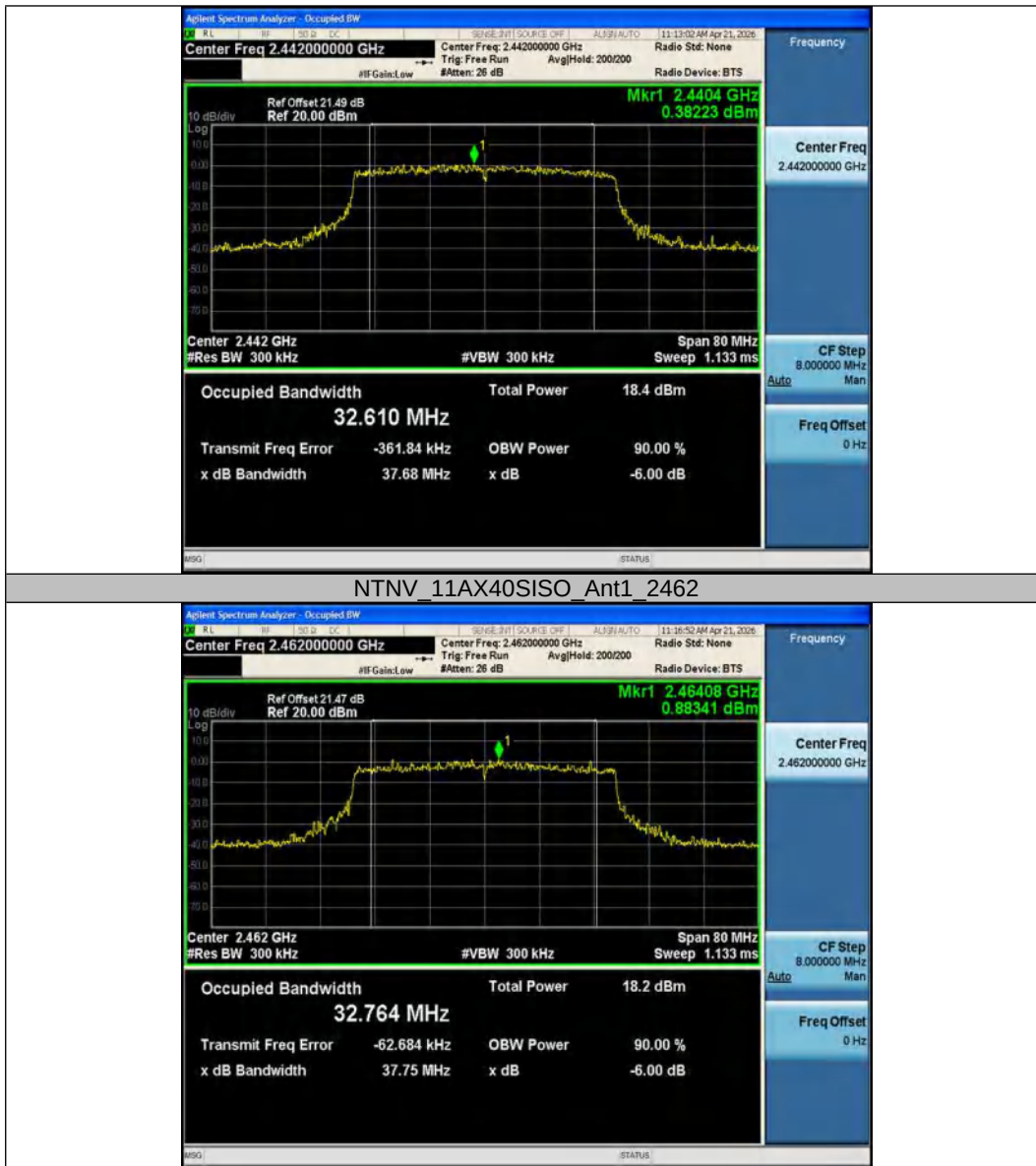
# NTNV\_11AX20SISO\_Ant1\_2472



# NTNV\_11AX40SISO\_Ant1\_2422



# NTNV\_11AX40SISO\_Ant1\_2442



## 4. Spurious Emission Intensity

### Limit

| Standard            | Item                 | Frequency           | Limit             |
|---------------------|----------------------|---------------------|-------------------|
| Article 2-1 Item 19 | TX Spurious Emission | 30 - 1000MHz        | 2.5μW/MHz /-26dBm |
|                     |                      | 1000 - 2387MHz      | 2.5μW/MHz /-26dBm |
|                     |                      | 2387 - 2400MHz      | 25μW/MHz /-16dBm  |
|                     |                      | 2483.5 - 2496.5MHz  | 25μW/MHz /-16dBm  |
|                     |                      | 2496.5MHz - 12.5GHz | 2.5μW/MHz /-26dBm |

### 4.2 Measurement Procedure

- Connect EUT antenna terminal to the Spectrum Analyzer.
- Set Spectrum Analyzer as below:

Frequency : 30- 1000MHz;  
1000 - 2387MHz;  
2387-2400MHz;  
2483.5-2496.5MHz;  
2496.5MHz-13GHz

RBW : 100kHz for Below 1GHz(LIMIT+10log1000/100)  
1MHz for Above 1GHz

VBW : 100kHz for Below 1GHz(LIMIT+10log1000/100)  
1MHz for Above 1GHz

Sweep Time : Auto

Detector Mode : Peak

Display Mode : Max Hold

### 4.3 Test Data

|              |          |             |            |
|--------------|----------|-------------|------------|
| Temperature  | 22.2℃    | Humidity    | 51 %       |
| ATM Pressure | 101.2kPa | Time        | 2026.04.21 |
| Test by      | Elio Lin | Test result | PASS       |

Please refer to Appendix A for the test data

## 5. Limit of Secondary Spurious Emissions

### Limit

| Standard            | Item              | Frequency  | Limit       |
|---------------------|-------------------|------------|-------------|
| Article 2-1 Item 19 | Spurious Emission | Below 1GHz | 4nW/-54dBm  |
|                     |                   | Above 1GHz | 20nW/-47dBm |

### 5.2 Measurement Procedure

- Connect EUT antenna terminal to the Spectrum Analyzer.
- Set Spectrum Analyzer as below:

Frequency : Below 1GHz(30MHz-1GHz)  
Above 1GHz(1-13GHz)  
RBW : 100kHz for Below 1GHz  
1MHz for Above 1GHz  
VBW : 100kHz for Below 1GHz  
1MHz for Above 1GHz  
Sweep Time : Auto  
Detector Mode : RMS  
Display Mode : Max Hold

### 5.3 Test Data

|              |          |             |            |
|--------------|----------|-------------|------------|
| Temperature  | 22.2℃    | Humidity    | 51 %       |
| ATM Pressure | 101.2kPa | Time        | 2026.04.21 |
| Test by      | Elio Lin | Test result | PASS       |

Please refer to Appendix B for the test data.

## 6. Antenna Power Measurement

### Limit

| Spread Spectrum Method                          | FHSS<br>(Compound method with DSSS or OFDM)                                                                                                                                                               |                                                    | DSSS                 | OFDM                 |                     | Other method<br>(Except SS & OFDM) |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------|----------------------|---------------------|------------------------------------|
| Frequency Range                                 | 2427 - 2470.75 MHz                                                                                                                                                                                        | 2400 – 2483.5 MHz<br>(except<br>2427 - 2470.75MHz) | 2400 - 2483.5 MHz    |                      |                     |                                    |
| Antenna Power                                   | 3mW/MHz or less                                                                                                                                                                                           | 10mW/MHz or less                                   | 10mW/MHz or less     | 10mW/MHz or less     | 5mW/MHz or less     | 10mW or less                       |
|                                                 | When an E.I.R.P. is less than 2.14dBi + antenna power limit, the shortage can be compensated for by the antenna power.<br>(Application to transmitting devices using "Other method" is limited to "GFSK") |                                                    |                      |                      |                     |                                    |
| Antenna Power Tolerance                         | +20% No lower limit                                                                                                                                                                                       |                                                    |                      |                      |                     |                                    |
| E.I.R.P.<br>(Limit is variable by the H.P.B.A.) | 6.91 - 16.91dBm/MHz                                                                                                                                                                                       | 12.14 - 22.14dBm/MHz                               | 12.14 - 22.14dBm/MHz | 12.14 - 22.14dBm/MHz | 9.13 - 19.13dBm/MHz | 12.14 - 22.14dBm                   |

### 6.2 Measurement Procedure

Connect the UUT to the Power sensor and use the following settings:

- Centre Frequency: Set the product to the corresponding operating frequency, then connect it to the power meter for testing.

### 6.3 Test Data

|              |          |             |            |
|--------------|----------|-------------|------------|
| Temperature  | 22.2°C   | Humidity    | 51 %       |
| ATM Pressure | 101.2kPa | Time        | 2026.04.21 |
| Test by      | Elio Lin | Test result | PASS       |

Please refer to following table.

#### Antenna Power and EIRP Normal Voltage

| Mode<br>(802.11) | Frequency<br>(MHz) | Antenna Power<br>(dBm/MHz) | Antenna<br>Output Power<br>(mW/MHz) | Declared<br>Power<br>(mW/MHz) | Limit of<br>Antenna<br>Power<br>(mW/MHz) | Tolerance<br>(%) | Limit (%) | Verdict |
|------------------|--------------------|----------------------------|-------------------------------------|-------------------------------|------------------------------------------|------------------|-----------|---------|
| b                | 2412               | 1.65                       | 1.46                                | 1.5                           | 10                                       | -2.67            | 20        | Pass    |
|                  | 2442               | 1.43                       | 1.39                                | 1.5                           | 10                                       | -7.33            | 20        | Pass    |
|                  | 2472               | 1.93                       | 1.56                                | 1.5                           | 10                                       | 4.00             | 20        | Pass    |
| g                | 2412               | 1.27                       | 1.34                                | 1.5                           | 10                                       | -10.67           | 20        | Pass    |
|                  | 2442               | 1.13                       | 1.30                                | 1.5                           | 10                                       | -13.33           | 20        | Pass    |
|                  | 2472               | 1.62                       | 1.45                                | 1.5                           | 10                                       | -3.33            | 20        | Pass    |
| n20              | 2412               | 1.00                       | 1.26                                | 1.5                           | 10                                       | -16.00           | 20        | Pass    |
|                  | 2442               | 0.92                       | 1.24                                | 1.5                           | 10                                       | -17.33           | 20        | Pass    |
|                  | 2472               | 0.90                       | 1.23                                | 1.5                           | 10                                       | -18.00           | 20        | Pass    |
| n40              | 2422               | 1.18                       | 1.31                                | 1.5                           | 5                                        | -12.67           | 20        | Pass    |
|                  | 2442               | 0.90                       | 1.23                                | 1.5                           | 5                                        | -18.00           | 20        | Pass    |
|                  | 2462               | 1.15                       | 1.30                                | 1.5                           | 5                                        | -13.33           | 20        | Pass    |
| ax20             | 2412               | 1.26                       | 1.34                                | 1.5                           | 10                                       | -10.67           | 20        | Pass    |
|                  | 2442               | 0.99                       | 1.26                                | 1.5                           | 10                                       | -16.00           | 20        | Pass    |
|                  | 2472               | 0.94                       | 1.24                                | 1.5                           | 10                                       | -17.33           | 20        | Pass    |
| ax40             | 2422               | 1.27                       | 1.34                                | 1.5                           | 5                                        | -10.67           | 20        | Pass    |
|                  | 2442               | 0.93                       | 1.24                                | 1.5                           | 5                                        | -17.33           | 20        | Pass    |
|                  | 2462               | 1.18                       | 1.31                                | 1.5                           | 5                                        | -12.67           | 20        | Pass    |

Note:

1. Declared Power by manufacturer.

2. EIRP (dBm/MHz) =  $10\log(\text{Antenna Output Power (mW/MHz)} + \text{Antenna Gain})$

| Condition | Mode | Frequency (MHz) | Antenna Power (dBm/MHz) | Gain (dBi) | EIRP (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|-------------------------|------------|----------------|-----------------|---------|
| NVNT      | b    | 2412            | 1.65                    | 1.34       | 2.99           | 12.14           | Pass    |
|           |      | 2442            | 1.43                    | 1.34       | 2.77           | 12.14           | Pass    |
|           |      | 2472            | 1.93                    | 1.34       | 3.27           | 12.14           | Pass    |
|           | g    | 2412            | 1.27                    | 1.34       | 2.61           | 12.14           | Pass    |
|           |      | 2442            | 1.13                    | 1.34       | 2.47           | 12.14           | Pass    |
|           |      | 2472            | 1.62                    | 1.34       | 2.96           | 12.14           | Pass    |
|           | n20  | 2412            | 1.00                    | 1.34       | 2.34           | 12.14           | Pass    |
|           |      | 2442            | 0.92                    | 1.34       | 2.26           | 12.14           | Pass    |
|           |      | 2472            | 0.90                    | 1.34       | 2.24           | 12.14           | Pass    |
|           | n40  | 2422            | 1.18                    | 1.34       | 2.52           | 9.13            | Pass    |
|           |      | 2442            | 0.90                    | 1.34       | 2.24           | 9.13            | Pass    |
|           |      | 2462            | 1.15                    | 1.34       | 2.49           | 9.13            | Pass    |
|           | ax20 | 2412            | 1.26                    | 1.34       | 2.60           | 12.14           | Pass    |
|           |      | 2442            | 0.99                    | 1.34       | 2.33           | 12.14           | Pass    |
|           |      | 2472            | 0.94                    | 1.34       | 2.28           | 12.14           | Pass    |
|           | ax40 | 2422            | 1.27                    | 1.34       | 2.61           | 9.13            | Pass    |
|           |      | 2442            | 0.93                    | 1.34       | 2.27           | 9.13            | Pass    |
|           |      | 2462            | 1.18                    | 1.34       | 2.52           | 9.13            | Pass    |

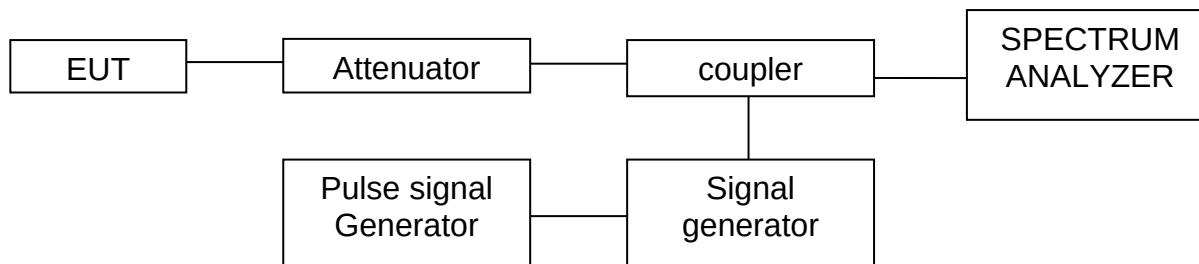
## 7. Carrier Sense

### 7.1 Limit

During outputting Carrier Wave by Signal Generator, check the EUT does not transmit any waves (include the Beacon).

### 7.2 Measurement Procedure

1. Set the spectrum analyzer as follows:  
Center frequency: Center frequency of the bandwidth used.  
Sweep frequency band: 50MHz  
Resolution bandwidth: Approximately 1MHz  
Video bandwidth: Comparable level with resolution bandwidth  
Trigger condition: Free-run  
Detective mode: Positive peak
2. Set the test equipment to the transmitting operation with the output of standard signal generator OFF, and confirm that it emits over 26MHz occupied frequency bandwidth OFDM radio wave
3. Set the test equipment to the receiving mode
4. With the output of standard signal generator ON, set the test equipment to the transmitting operation, and confirm that it does not emit over 26MHz occupied frequency band width OFDM radio wave
5. Test System Diagram



### 7.3 Test Data

| Mode       | Channel | Test result |
|------------|---------|-------------|
| 802.11n40  | 7       | Good        |
| 802.11ax40 | 7       | Good        |

## 8. INTERFERENCE PREVENTION FUNCTION

### 8.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

### 8.2 Test Procedure

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
  - A. Transmit the assigned identification code from the radio equipment.
  - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
  - A. Transmit the assigned identification code from the opposite equipment.
  - B. Confirm that the usual communication is available.
  - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
  - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded with “Good” or “No”.

### 8.3 Summary of Test Results/Plots

| Test Item                                    | Test Result |
|----------------------------------------------|-------------|
| Transmitting Function of Identification Code | Good        |
| Receiving Function of Identification Code    | Good        |

Note: The MAC address is: B8:B1:EA:C7:8E:F8

## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

## Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

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(END OF REPORT)

## Appendix A: Spurious Emission of TX

### Test Result

| TestCondition | Test Mode | Antenna | Freq(MHz) | Freq.Range [MHz] | Result [dBm] | Limit [dBm] | Result [μW/MHz] | Limit [μW/MHz] | Verdict         |
|---------------|-----------|---------|-----------|------------------|--------------|-------------|-----------------|----------------|-----------------|
| NTNV          | 11B       | Ant1    | 2412      | 30~1000          | -49.16       | ≤-26        | 0.01213         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -46.77       | ≤-26        | 0.02104         | ≤2.5           | PASS            |
|               |           |         |           | 2387~2400        | -41.16       | ≤-16        | 0.07656         | ≤25            | PASS            |
|               |           |         |           | 2483.5~2496.5    | -46.45       | ≤-16        | 0.02265         | ≤25            | PASS            |
|               |           |         |           | 2496.5~13000     | -38.39       | ≤-26        | 0.14488         | ≤2.5           | PASS            |
|               |           |         | 2442      | 30~1000          | -49.89       | ≤-26        | 0.01026         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -48.16       | ≤-26        | 0.01528         | ≤2.5           | PASS            |
|               |           |         |           | 2387~2400        | -47.53       | ≤-16        | 0.01766         | ≤25            | PASS            |
|               |           |         |           | 2483.5~2496.5    | -46.25       | ≤-16        | 0.02371         | ≤25            | PASS            |
|               |           |         |           | 2496.5~13000     | -34.87       | ≤-26        | 0.32584         | ≤2.5           | PASS            |
|               |           |         | 2472      | 30~1000          | -50.50       | ≤-26        | 0.00891         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -47.91       | ≤-26        | 0.01618         | ≤2.5           | PASS            |
|               |           |         |           | 2387~2400        | -48.81       | ≤-16        | 0.01315         | ≤25            | PASS            |
|               |           |         |           | 2483.5~2496.5    | -41.93       | ≤-16        | 0.06412         | ≤25            | PASS            |
|               |           |         |           | 2496.5~13000     | -40.73       | ≤-26        | 0.08453         | ≤2.5           | PASS            |
|               | 11G       | Ant1    | 2412      | 30~1000          | -48.15       | ≤-26        | 0.01531         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -44.32       | ≤-26        | 0.03698         | ≤2.5           | PASS            |
|               |           |         |           | 2387~2400        | -14.01       | ≤-16        | 39.71915        | ≤25            | See table below |
|               |           |         |           | 2483.5~2496.5    | -48.63       | ≤-16        | 0.01371         | ≤25            | PASS            |
|               |           |         |           | 2496.5~13000     | -35.23       | ≤-26        | 0.29992         | ≤2.5           | PASS            |
|               |           |         | 2442      | 30~1000          | -49.40       | ≤-26        | 0.01148         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -46.68       | ≤-26        | 0.02148         | ≤2.5           | PASS            |
|               |           |         |           | 2387~2400        | -47.62       | ≤-16        | 0.01730         | ≤25            | PASS            |
|               |           |         |           | 2483.5~2496.5    | -47.48       | ≤-16        | 0.01786         | ≤25            | PASS            |
|               |           |         |           | 2496.5~13000     | -39.30       | ≤-26        | 0.11749         | ≤2.5           | PASS            |
|               |           |         | 2472      | 30~1000          | -41.25       | ≤-26        | 0.07499         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -47.65       | ≤-26        | 0.01718         | ≤2.5           | PASS            |
|               |           |         |           | 2387~2400        | -37.90       | ≤-16        | 0.16218         | ≤25            | PASS            |
|               |           |         |           | 2483.5~2496.5    | -14.77       | ≤-16        | 33.34264        | ≤25            | See table below |
|               |           |         |           | 2496.5~13000     | -42.09       | ≤-26        | 0.06180         | ≤2.5           | PASS            |
|               | 11N2 OSIS | Ant1    | 2412      | 30~1000          | -50.12       | ≤-26        | 0.00973         | ≤2.5           | PASS            |
|               |           |         |           | 1000~2387        | -46.82       | ≤-26        | 0.02080         | ≤2.5           | PASS            |

|  |                    |      |      |               |        |      |          |      |                 |
|--|--------------------|------|------|---------------|--------|------|----------|------|-----------------|
|  | O                  |      |      | 2387~2400     | -13.54 | ≤-16 | 44.25884 | ≤25  | See table below |
|  |                    |      |      | 2483.5~2496.5 | -46.33 | ≤-16 | 0.02328  | ≤25  | PASS            |
|  |                    |      |      | 2496.5~13000  | -41.61 | ≤-26 | 0.06902  | ≤2.5 | PASS            |
|  |                    |      | 2442 | 30~1000       | -50.96 | ≤-26 | 0.00802  | ≤2.5 | PASS            |
|  |                    |      |      | 1000~2387     | -46.69 | ≤-26 | 0.02143  | ≤2.5 | PASS            |
|  |                    |      |      | 2387~2400     | -46.97 | ≤-16 | 0.02009  | ≤25  | PASS            |
|  |                    |      |      | 2483.5~2496.5 | -46.36 | ≤-16 | 0.02312  | ≤25  | PASS            |
|  |                    |      |      | 2496.5~13000  | -39.68 | ≤-26 | 0.10765  | ≤2.5 | PASS            |
|  |                    |      | 2472 | 30~1000       | -50.86 | ≤-26 | 0.00820  | ≤2.5 | PASS            |
|  |                    |      |      | 1000~2387     | -47.46 | ≤-26 | 0.01795  | ≤2.5 | PASS            |
|  |                    |      |      | 2387~2400     | -47.23 | ≤-16 | 0.01892  | ≤25  | PASS            |
|  |                    |      |      | 2483.5~2496.5 | -11.54 | ≤-16 | 70.14553 | ≤25  | See table below |
|  |                    |      |      | 2496.5~13000  | -36.20 | ≤-26 | 0.23988  | ≤2.5 | PASS            |
|  | 11N4<br>0SIS<br>O  | Ant1 | 2422 | 30~1000       | -49.82 | ≤-26 | 0.01042  | ≤2.5 | PASS            |
|  |                    |      |      | 1000~2387     | -37.42 | ≤-26 | 0.18113  | ≤2.5 | PASS            |
|  |                    |      |      | 2387~2400     | -19.83 | ≤-16 | 10.39920 | ≤25  | PASS            |
|  |                    |      |      | 2483.5~2496.5 | -45.96 | ≤-16 | 0.02535  | ≤25  | PASS            |
|  |                    |      |      | 2496.5~13000  | -34.87 | ≤-26 | 0.32584  | ≤2.5 | PASS            |
|  |                    |      | 2442 | 30~1000       | -33.13 | ≤-26 | 0.48641  | ≤2.5 | See table below |
|  |                    |      |      | 1000~2387     | -46.59 | ≤-26 | 0.02193  | ≤2.5 | PASS            |
|  |                    |      |      | 2387~2400     | -38.98 | ≤-16 | 0.12647  | ≤25  | PASS            |
|  |                    |      |      | 2483.5~2496.5 | -36.84 | ≤-16 | 0.20701  | ≤25  | PASS            |
|  |                    |      |      | 2496.5~13000  | -35.09 | ≤-26 | 0.30974  | ≤2.5 | PASS            |
|  |                    |      | 2462 | 30~1000       | -33.94 | ≤-26 | 0.40365  | ≤2.5 | See table below |
|  |                    |      |      | 1000~2387     | -47.38 | ≤-26 | 0.01828  | ≤2.5 | PASS            |
|  |                    |      |      | 2387~2400     | -46.09 | ≤-16 | 0.02460  | ≤25  | PASS            |
|  |                    |      |      | 2483.5~2496.5 | -18.53 | ≤-16 | 14.02814 | ≤25  | PASS            |
|  |                    |      |      | 2496.5~13000  | -35.97 | ≤-26 | 0.25293  | ≤2.5 | PASS            |
|  | 11AX<br>20SIS<br>O | Ant1 | 2412 | 30~1000       | -51.24 | ≤-26 | 0.00752  | ≤2.5 | PASS            |
|  |                    |      |      | 1000~2387     | -43.69 | ≤-26 | 0.04276  | ≤2.5 | PASS            |
|  |                    |      |      | 2387~2400     | -11.15 | ≤-16 | 76.73615 | ≤25  | See table below |
|  |                    |      |      | 2483.5~2496.5 | -47.72 | ≤-16 | 0.01690  | ≤25  | PASS            |
|  |                    |      |      | 2496.5~13000  | -41.74 | ≤-26 | 0.06699  | ≤2.5 | PASS            |

|  |                |      |      |               |        |      |          |      |                 |
|--|----------------|------|------|---------------|--------|------|----------|------|-----------------|
|  | 11AX<br>40SISO | Ant1 | 2442 | 30~1000       | -50.48 | ≤-26 | 0.00895  | ≤2.5 | PASS            |
|  |                |      |      | 1000~2387     | -46.83 | ≤-26 | 0.02075  | ≤2.5 | PASS            |
|  |                |      |      | 2387~2400     | -46.73 | ≤-16 | 0.02123  | ≤25  | PASS            |
|  |                |      |      | 2483.5~2496.5 | -46.12 | ≤-16 | 0.02443  | ≤25  | PASS            |
|  |                |      |      | 2496.5~13000  | -37.64 | ≤-26 | 0.17219  | ≤2.5 | PASS            |
|  |                |      | 2472 | 30~1000       | -50.29 | ≤-26 | 0.00935  | ≤2.5 | PASS            |
|  |                |      |      | 1000~2387     | -46.73 | ≤-26 | 0.02123  | ≤2.5 | PASS            |
|  |                |      |      | 2387~2400     | -48.13 | ≤-16 | 0.01538  | ≤25  | PASS            |
|  |                |      |      | 2483.5~2496.5 | -13.47 | ≤-16 | 44.97799 | ≤25  | See table below |
|  |                |      |      | 2496.5~13000  | -41.09 | ≤-26 | 0.07780  | ≤2.5 | PASS            |
|  | 11AX<br>40SISO | Ant1 | 2422 | 30~1000       | -51.26 | ≤-26 | 0.00748  | ≤2.5 | PASS            |
|  |                |      |      | 1000~2387     | -38.82 | ≤-26 | 0.13122  | ≤2.5 | PASS            |
|  |                |      |      | 2387~2400     | -17.10 | ≤-16 | 19.49845 | ≤25  | PASS            |
|  |                |      |      | 2483.5~2496.5 | -45.36 | ≤-16 | 0.02911  | ≤25  | PASS            |
|  |                |      |      | 2496.5~13000  | -34.19 | ≤-26 | 0.38107  | ≤2.5 | PASS            |
|  |                |      | 2442 | 30~1000       | -50.02 | ≤-26 | 0.00995  | ≤2.5 | PASS            |
|  |                |      |      | 1000~2387     | -47.43 | ≤-26 | 0.01807  | ≤2.5 | PASS            |
|  |                |      |      | 2387~2400     | -36.12 | ≤-16 | 0.24434  | ≤25  | PASS            |
|  |                |      |      | 2483.5~2496.5 | -36.10 | ≤-16 | 0.24547  | ≤25  | PASS            |
|  |                |      |      | 2496.5~13000  | -38.91 | ≤-26 | 0.12853  | ≤2.5 | PASS            |
|  |                |      | 2462 | 30~1000       | -49.86 | ≤-26 | 0.01033  | ≤2.5 | PASS            |
|  |                |      |      | 1000~2387     | -37.37 | ≤-26 | 0.18323  | ≤2.5 | PASS            |
|  |                |      |      | 2387~2400     | -45.94 | ≤-16 | 0.02547  | ≤25  | PASS            |
|  |                |      |      | 2483.5~2496.5 | -15.42 | ≤-16 | 28.70781 | ≤25  | See table below |
|  |                |      |      | 2496.5~13000  | -38.36 | ≤-26 | 0.14588  | ≤2.5 | PASS            |

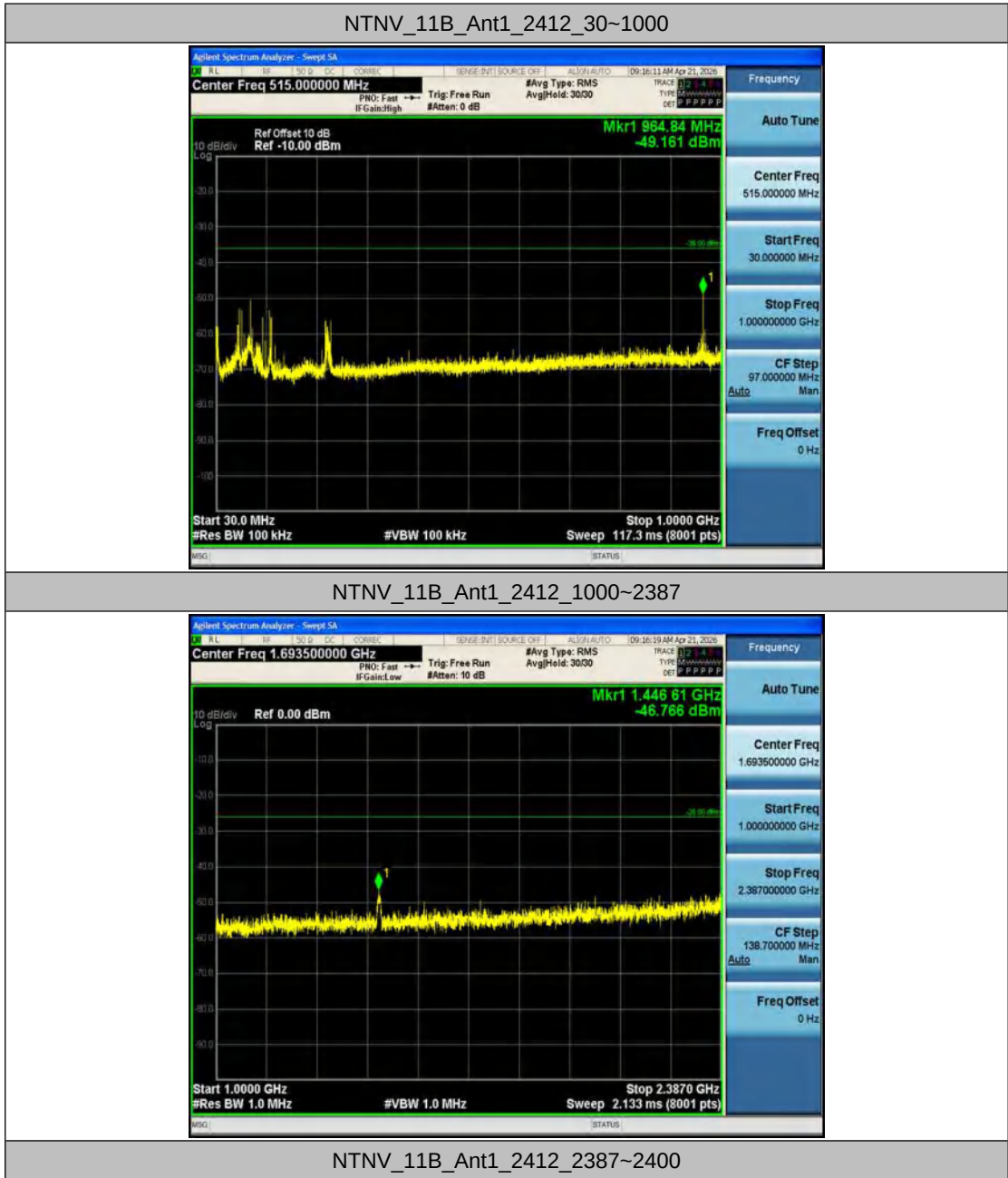
## Test Result\_Step2

| TestCondition | TestMode    | PreScan In Ant | Channel | Ant  | Freq. [MHz] | Result [dBm] | Limit [dBm] | Result [μW/MHz] | Limit [μW/MHz] | Verdict |
|---------------|-------------|----------------|---------|------|-------------|--------------|-------------|-----------------|----------------|---------|
| NTNV          | 11G         | Ant1           | 2412    | Ant1 | 2399.79     | -29.32       | ≤-16        | 1.16950         | ≤25            | PASS    |
|               |             |                | 2472    | Ant1 | 2483.78     | -28.30       | ≤-16        | 1.47911         | ≤25            | PASS    |
|               | 11N20 SISO  | Ant1           | 2412    | Ant1 | 2399.52     | -28.95       | ≤-16        | 1.27350         | ≤25            | PASS    |
|               |             |                | 2472    | Ant1 | 2483.58     | -26.62       | ≤-16        | 2.17771         | ≤25            | PASS    |
|               | 11N40 SISO  | Ant1           | 2442    | Ant1 | 825.66      | -56.85       | ≤-26        | 0.00207         | ≤2.5           | PASS    |
|               |             |                | 2462    | Ant1 | 825.22      | -49.25       | ≤-26        | 0.01189         | ≤2.5           | PASS    |
|               | 11AX20 SISO | Ant1           | 2412    | Ant1 | 2399.76     | -30.31       | ≤-16        | 0.93111         | ≤25            | PASS    |
|               |             |                | 2472    | Ant1 | 2483.68     | -22.25       | ≤-16        | 5.95662         | ≤25            | PASS    |

|  |                |      |      |      |         |        |      |         |     |      |
|--|----------------|------|------|------|---------|--------|------|---------|-----|------|
|  | 11AX4<br>0SISO | Ant1 | 2462 | Ant1 | 2484.88 | -37.19 | ≤-16 | 0.19099 | ≤25 | PASS |
|--|----------------|------|------|------|---------|--------|------|---------|-----|------|

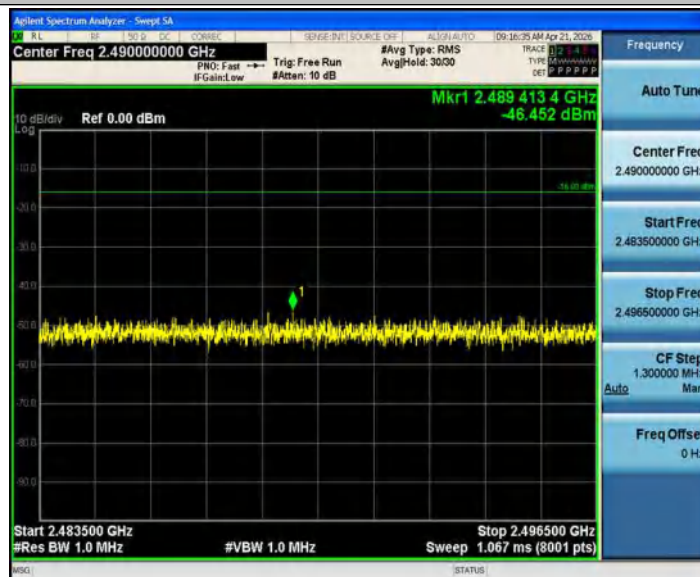
Note: For TX Spurious Emission(30MHz-1000MHz), When we test with RBW:100kHz and VBW:100kHz, since the limit unit is  $\mu\text{W}/\text{MHz}$ , Therefore, compensate with 10dB at the offset.

# Test Graphs

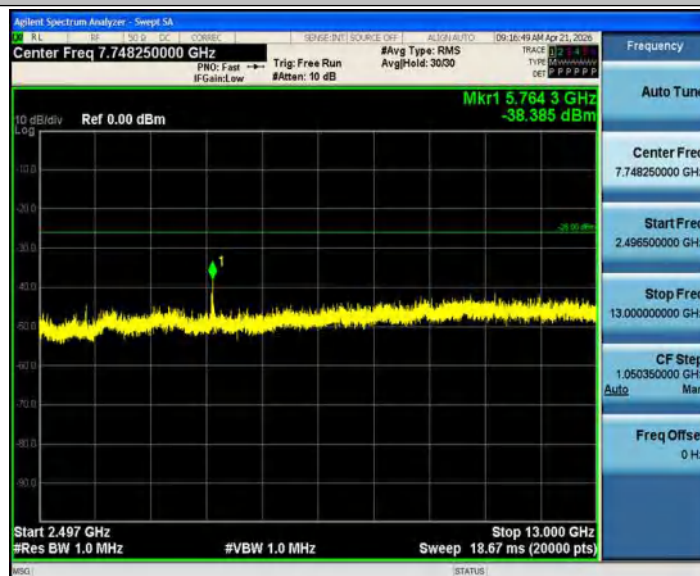




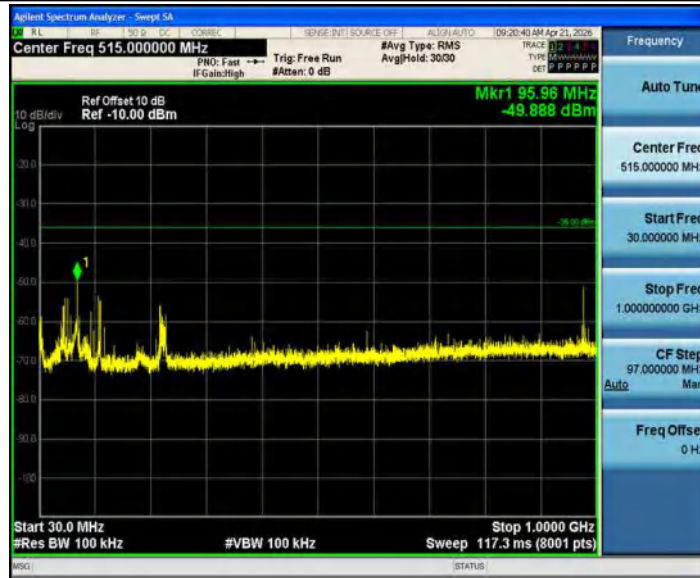
NTNV\_11B\_Ant1\_2412\_2483.5~2496.5



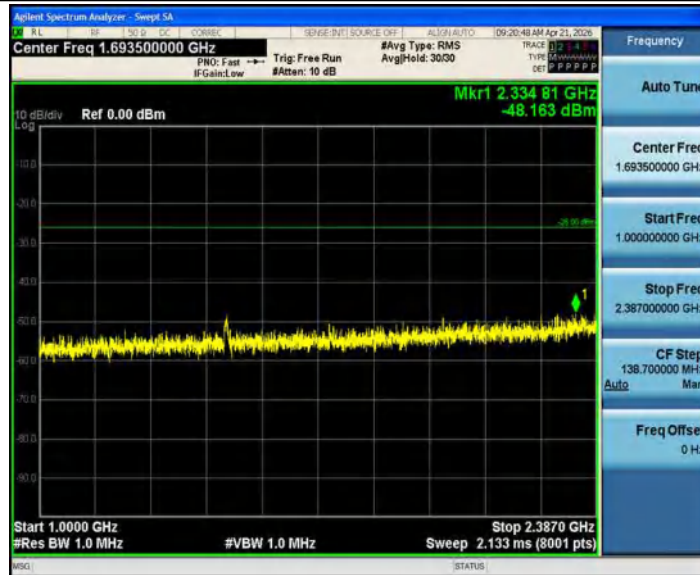
NTNV\_11B\_Ant1\_2412\_2496.5~13000



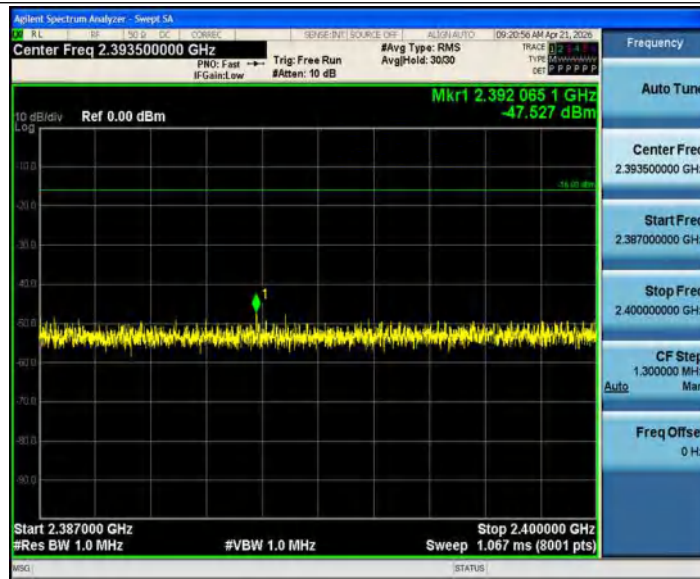
# NTNV\_11B\_Ant1\_2442\_30~1000



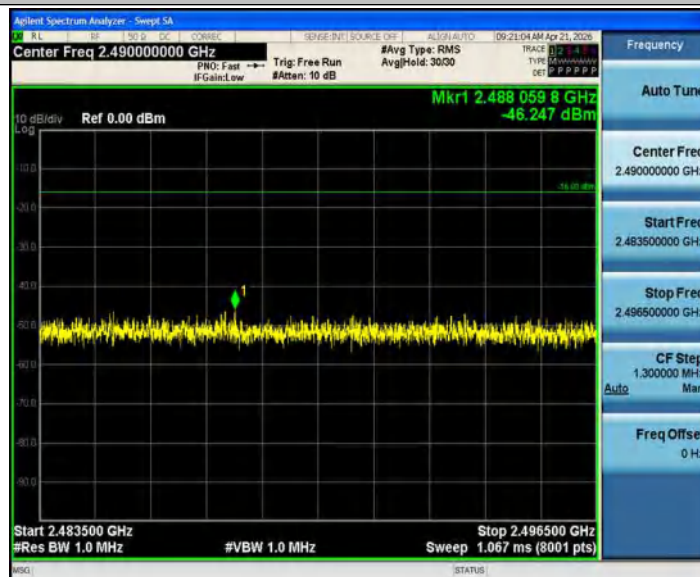
# NTNV\_11B\_Ant1\_2442\_1000~2387



# NTNV\_11B\_Ant1\_2442\_2387~2400



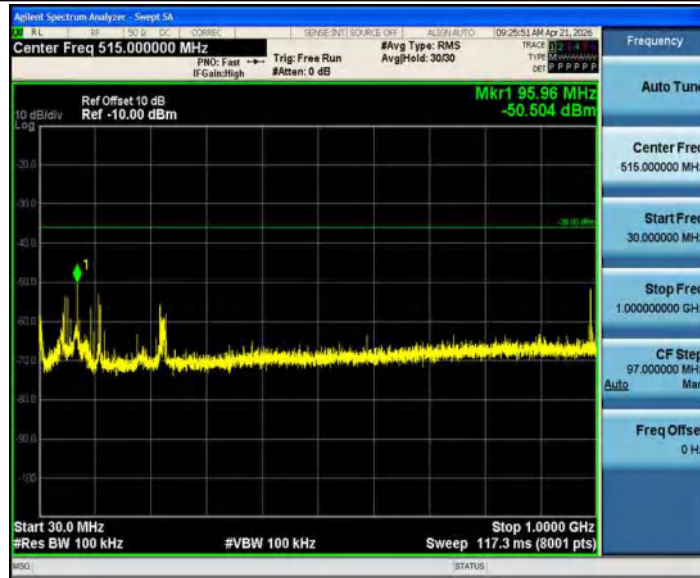
NTNV\_11B\_Ant1\_2442\_2483.5~2496.5



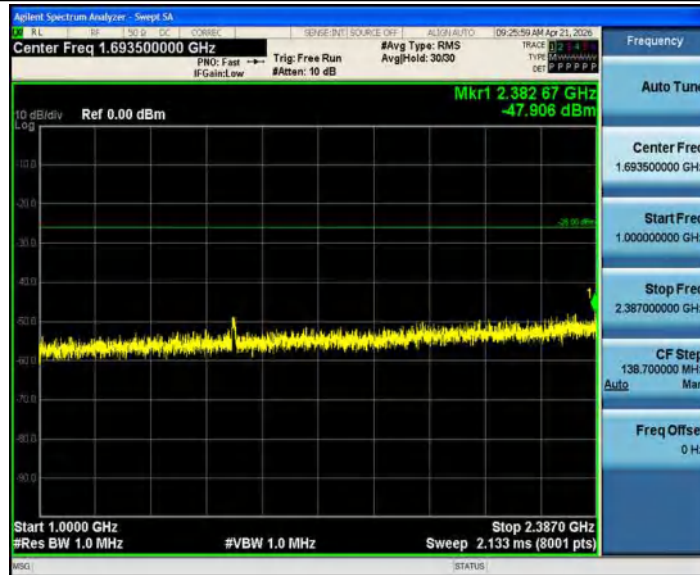
NTNV\_11B\_Ant1\_2442\_2496.5~13000



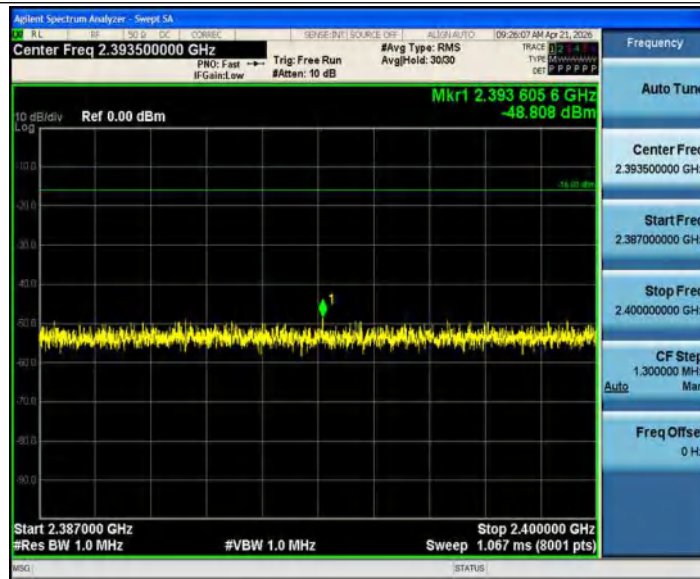
# NTNV\_11B\_Ant1\_2472\_30~1000



# NTNV\_11B\_Ant1\_2472\_1000~2387



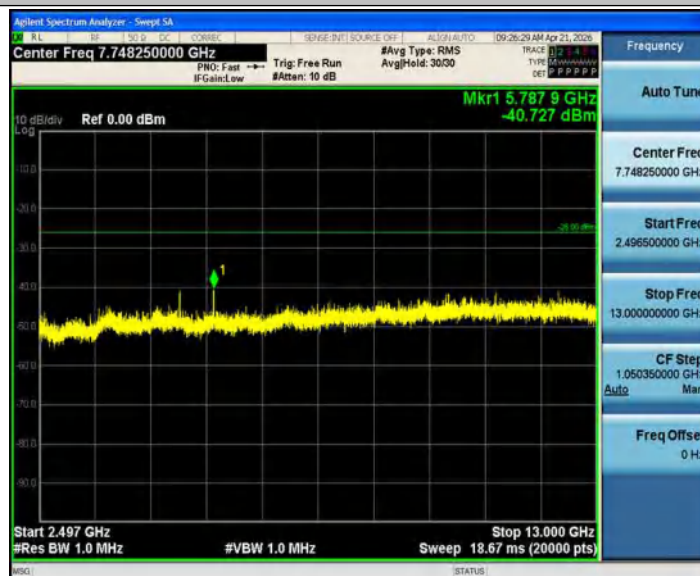
# NTNV\_11B\_Ant1\_2472\_2387~2400



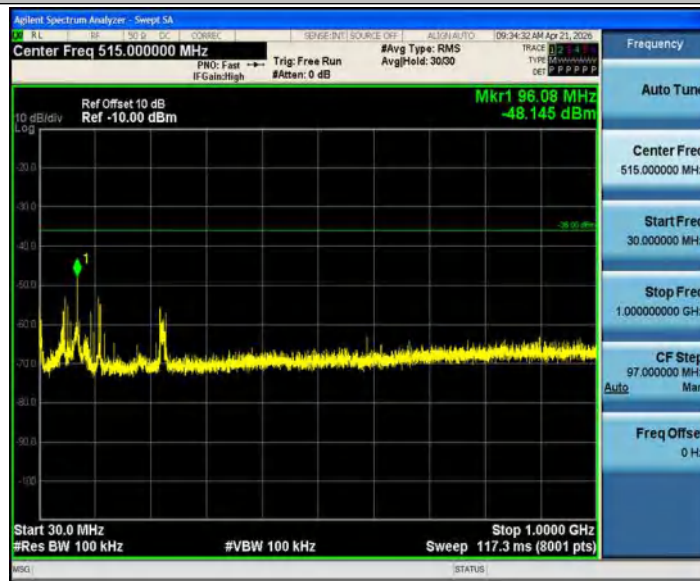
NTNV\_11B\_Ant1\_2472\_2483.5~2496.5



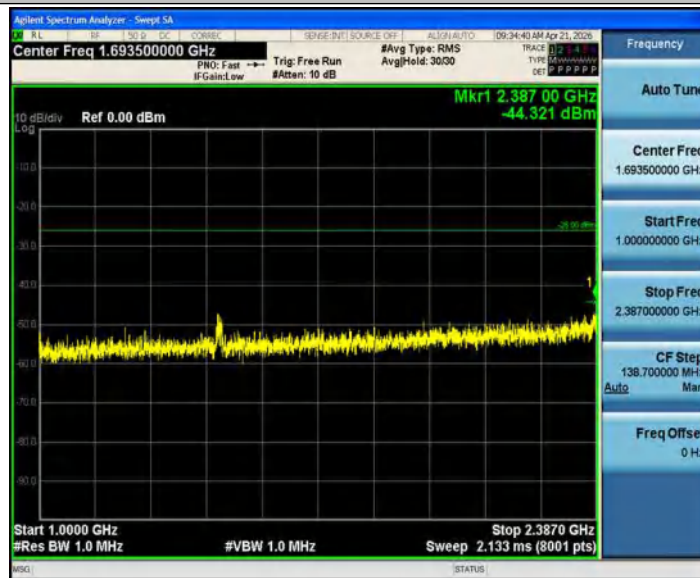
NTNV\_11B\_Ant1\_2472\_2496.5~13000



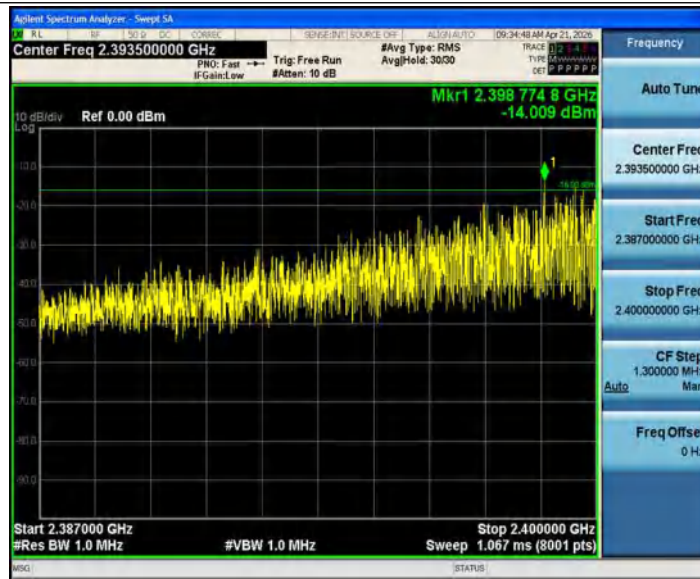
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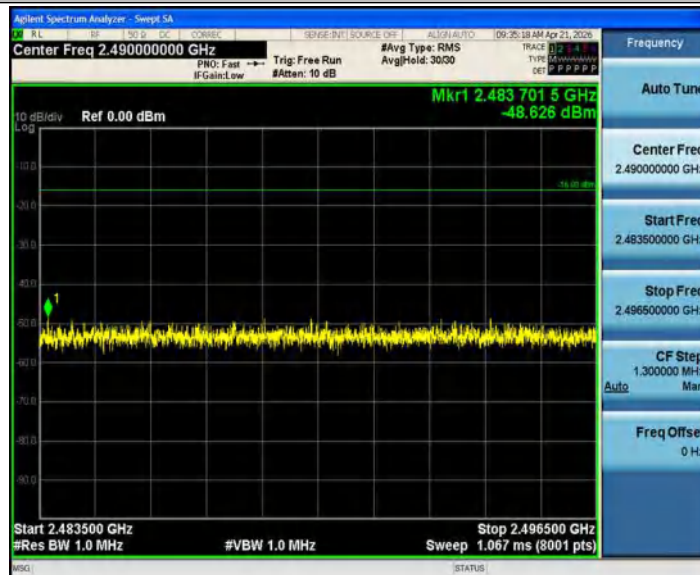
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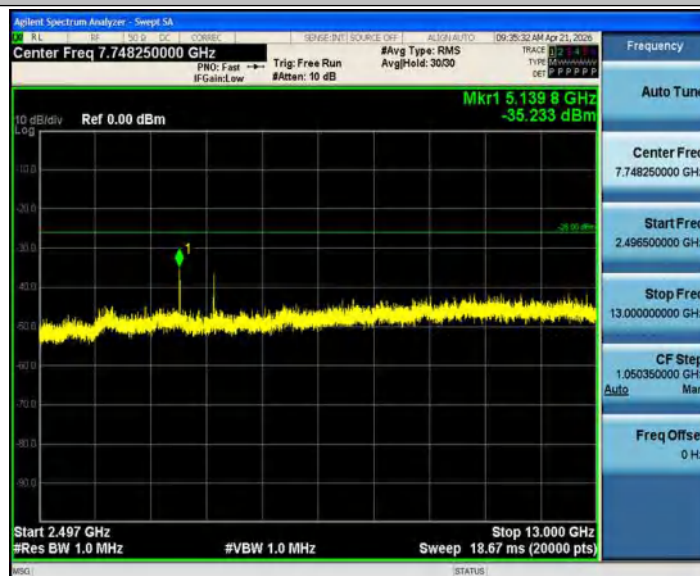
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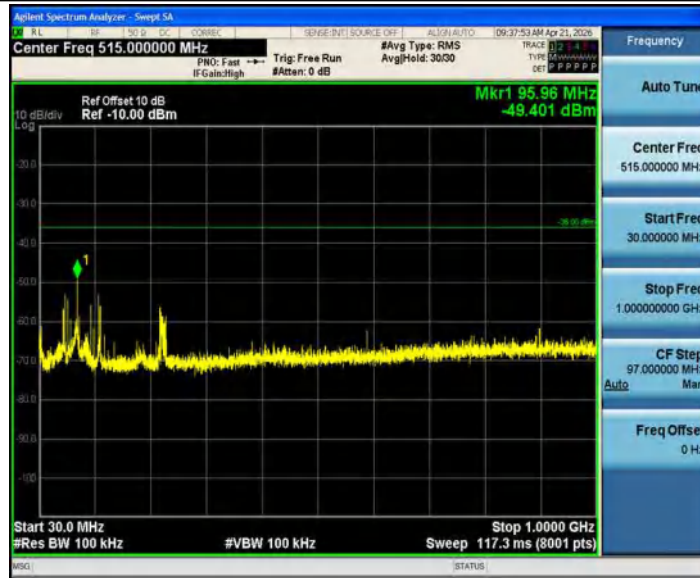
NTNV\_11G\_Ant1\_2412\_2483.5~2496.5



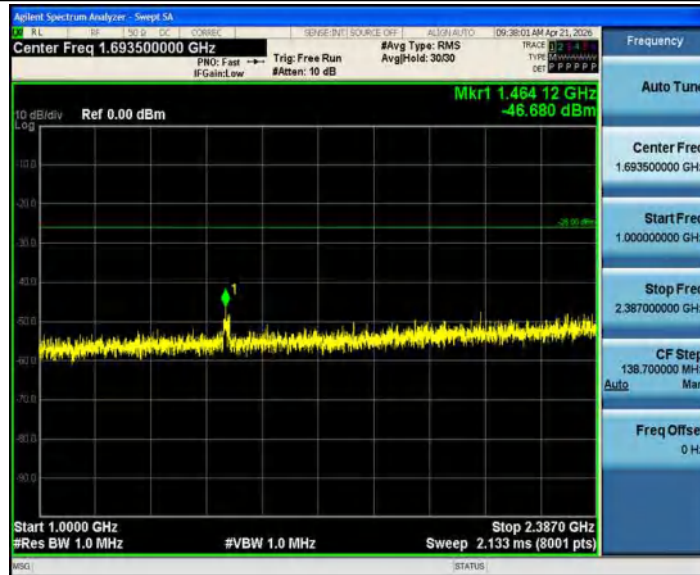
NTNV\_11G\_Ant1\_2412\_2496.5~13000



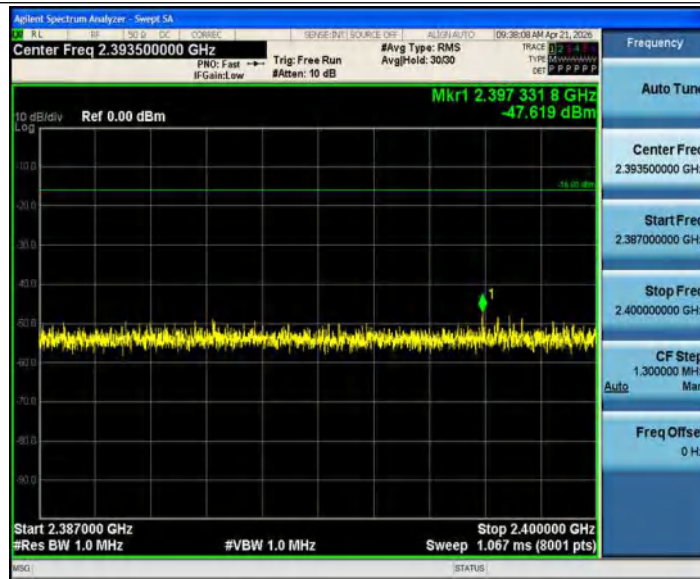
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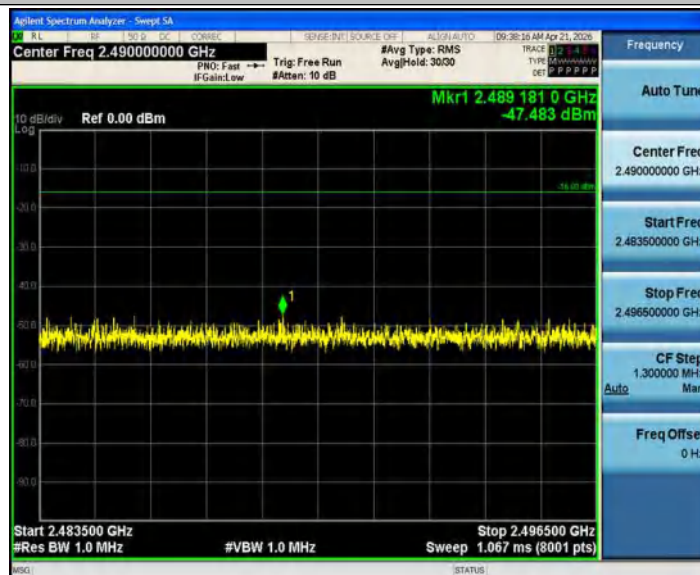
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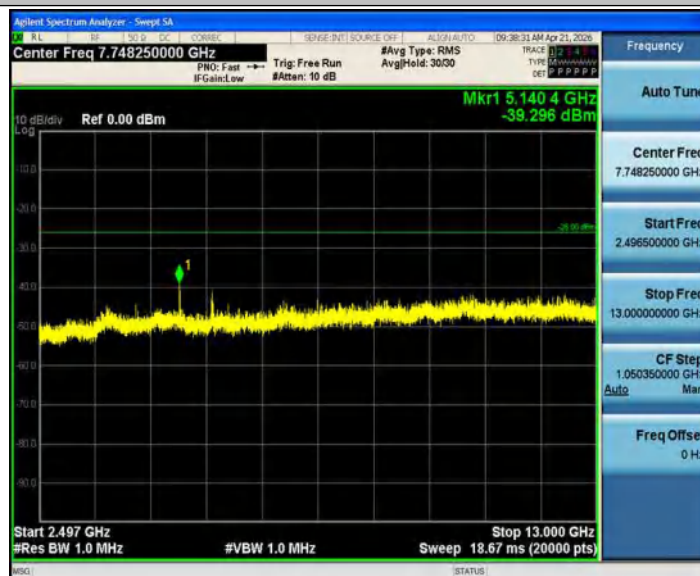
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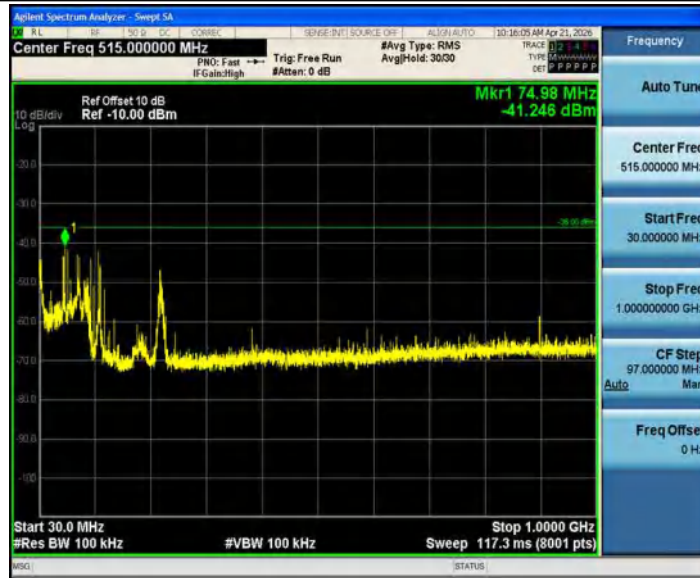
NTNV\_11G\_Ant1\_2442\_2483.5~2496.5



NTNV\_11G\_Ant1\_2442\_2496.5~13000



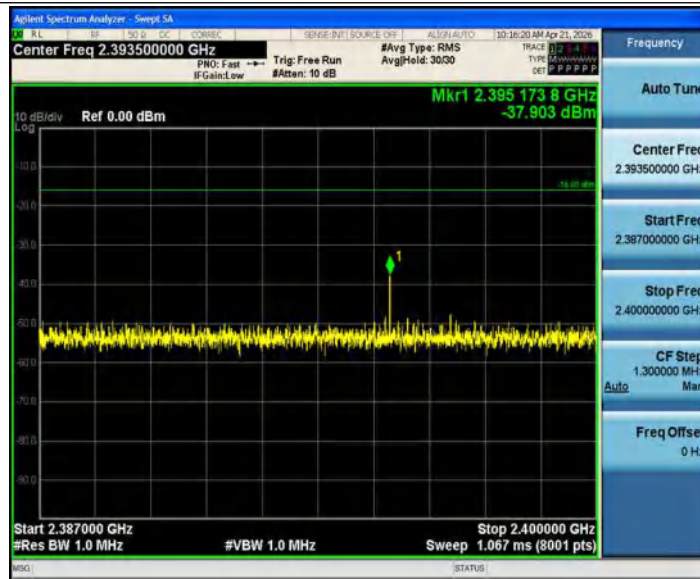
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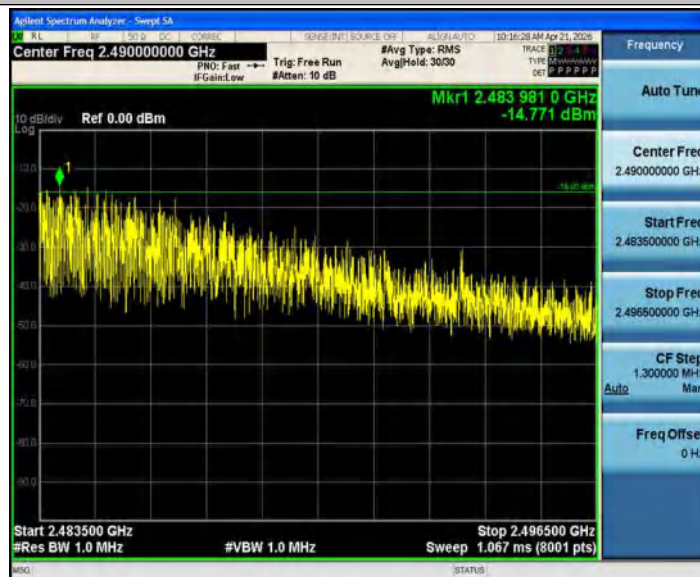
# NTNV\_11G\_Ant1\_2472\_1000~2387



# NTNV\_11G\_Ant1\_2472\_2387~2400



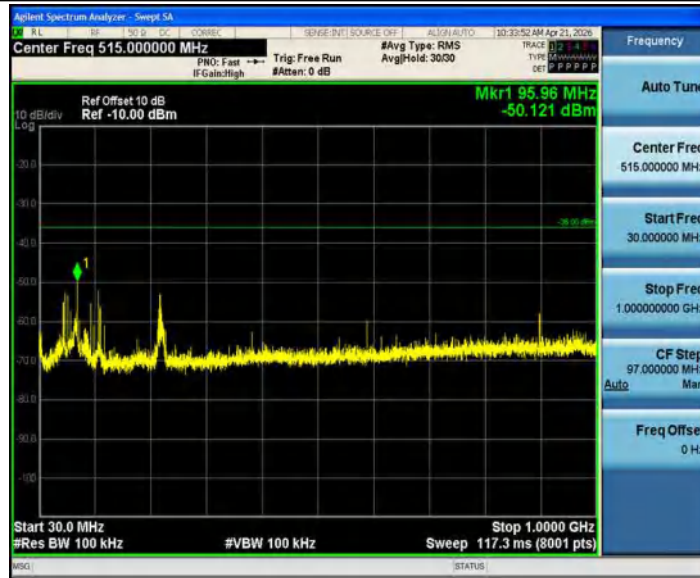
NTNV\_11G\_Ant1\_2472\_2483.5~2496.5



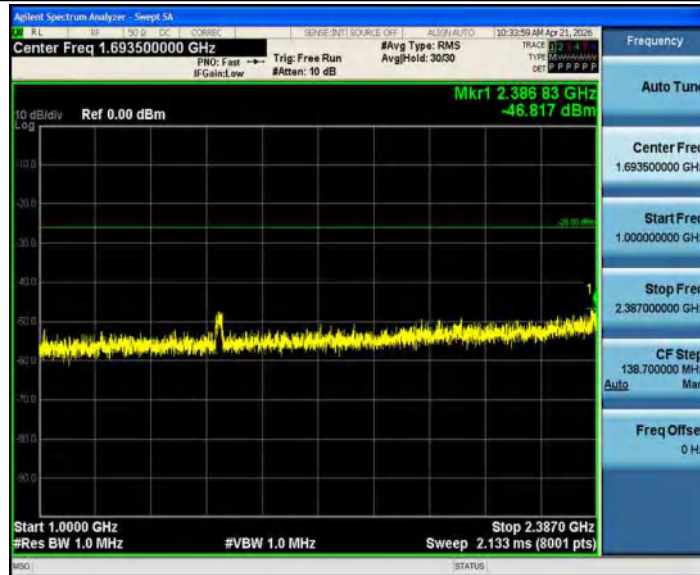
NTNV\_11G\_Ant1\_2472\_2496.5~13000



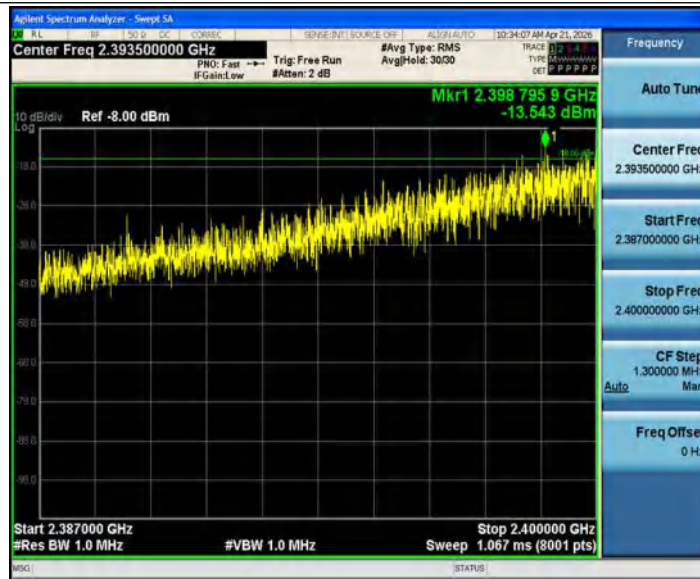
# NTNV\_11N20SISO\_Ant1\_2412\_30~1000



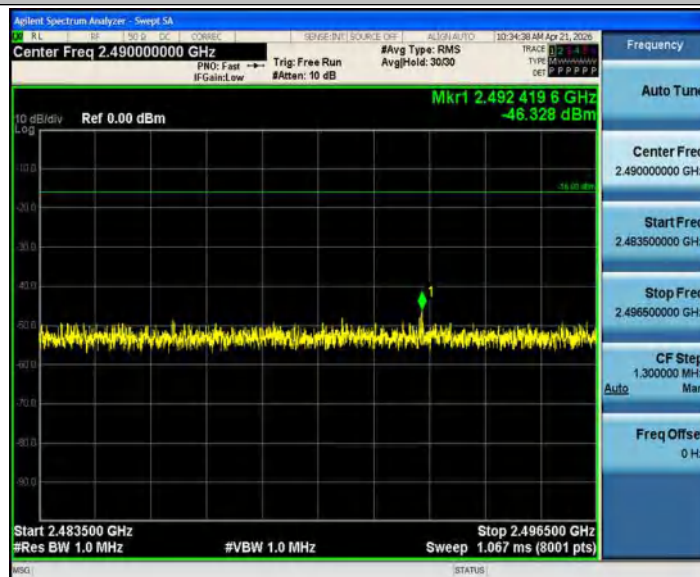
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# NTNV\_11N20SISO\_Ant1\_2412\_2387~2400



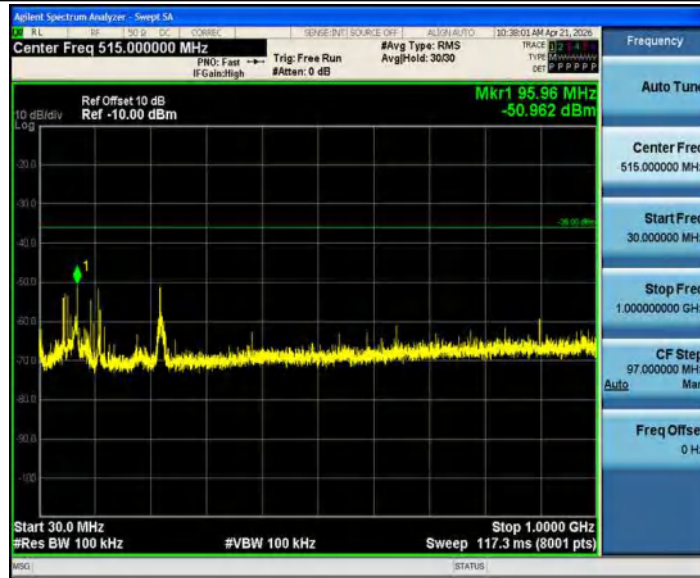
NTNV\_11N20SISO\_Ant1\_2412\_2483.5~2496.5



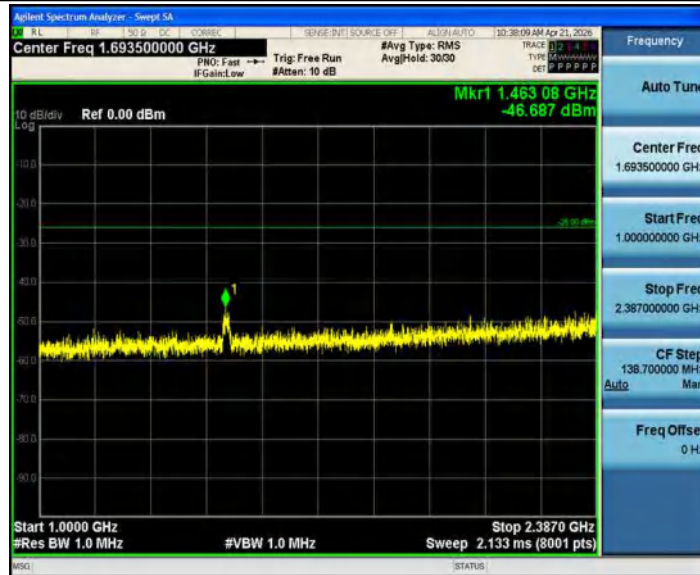
NTNV\_11N20SISO\_Ant1\_2412\_2496.5~13000



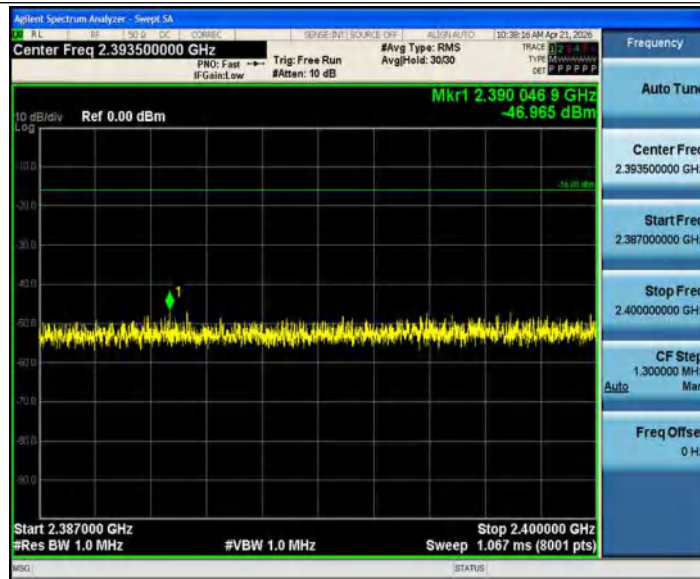
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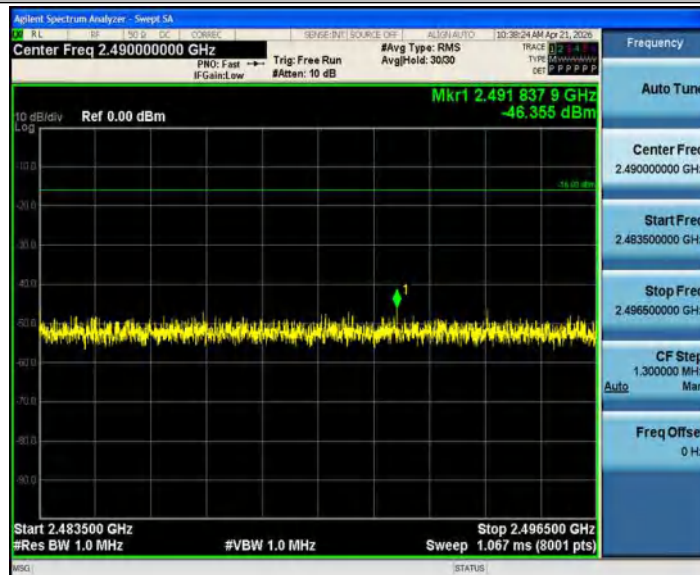
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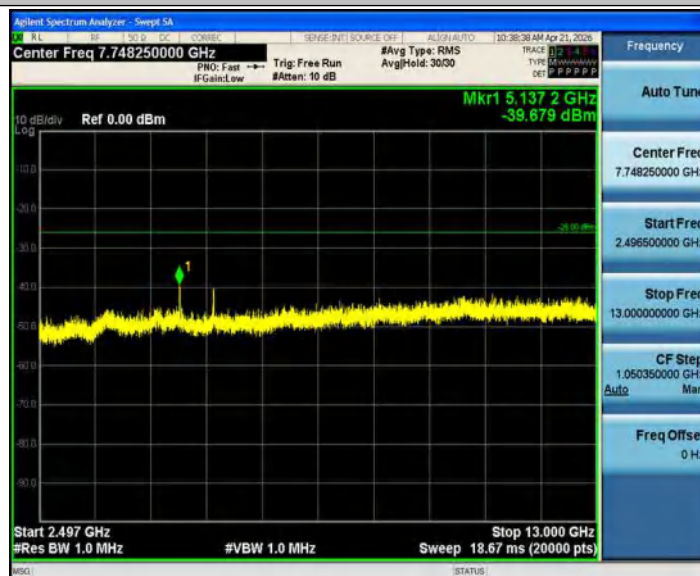
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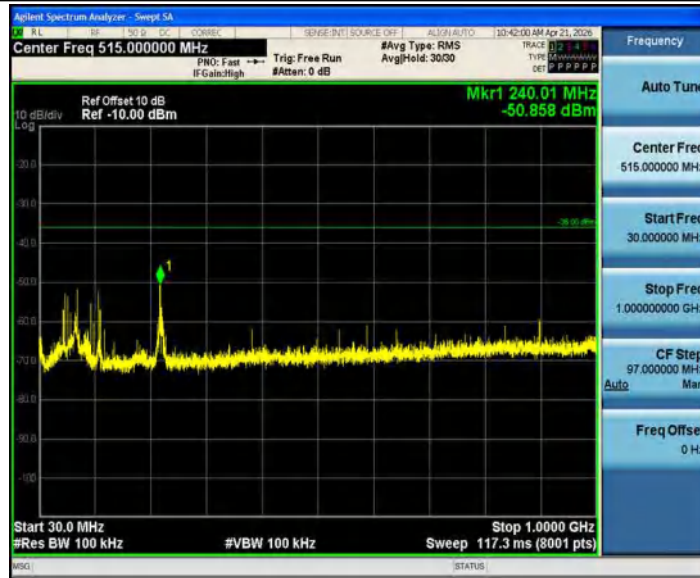
NTNV\_11N20SISO\_Ant1\_2442\_2483.5~2496.5



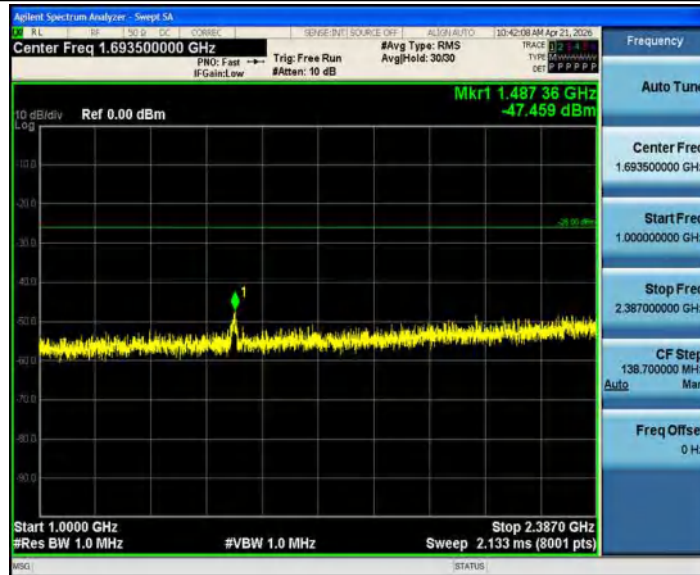
NTNV\_11N20SISO\_Ant1\_2442\_2496.5~13000



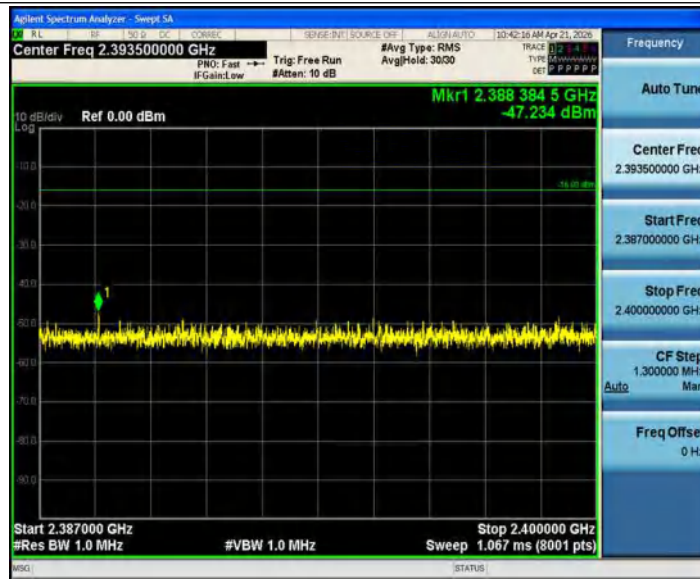
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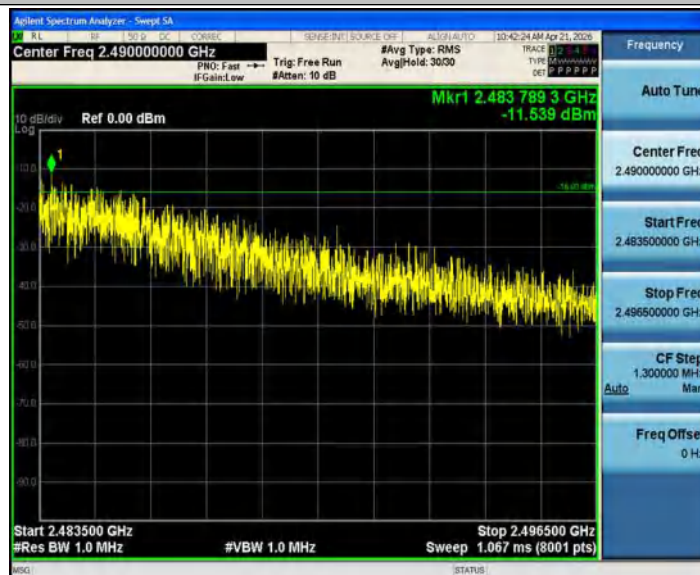
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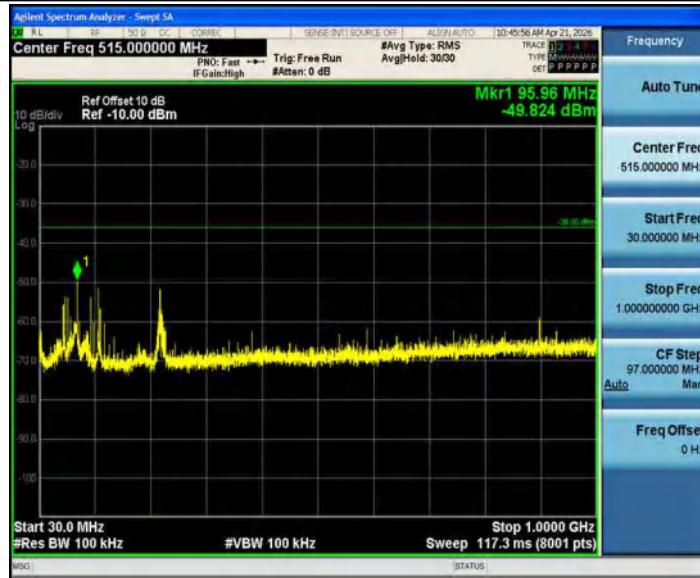
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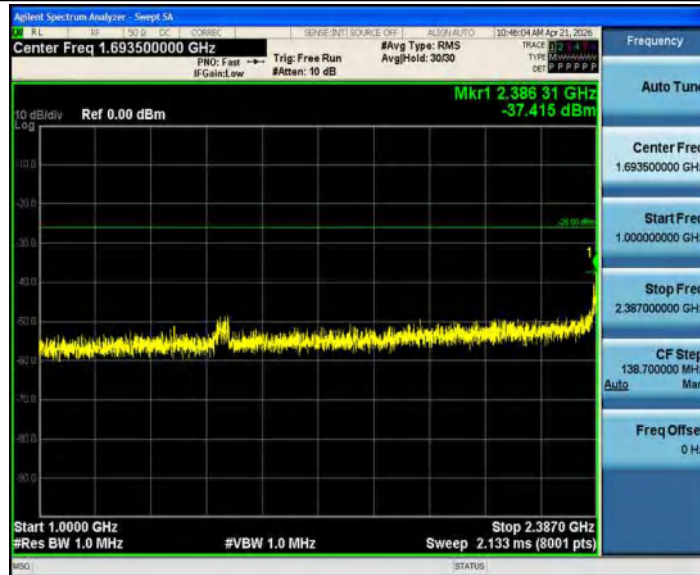
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# NTNV\_11N40SISO\_Ant1\_2422\_30~1000



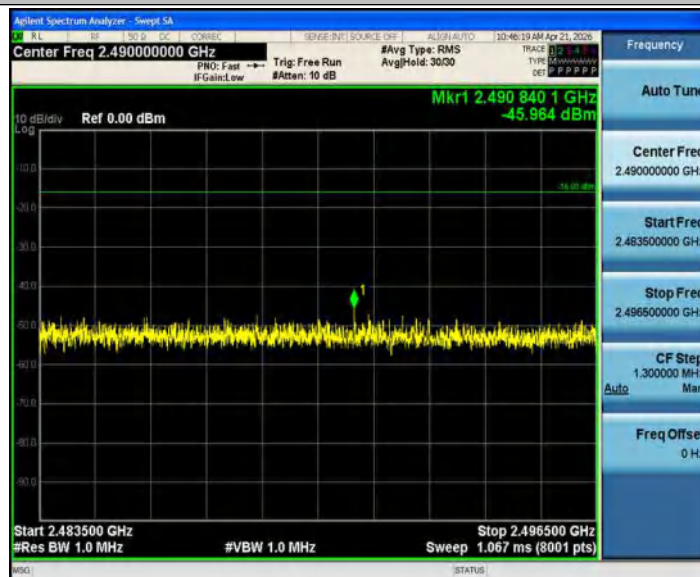
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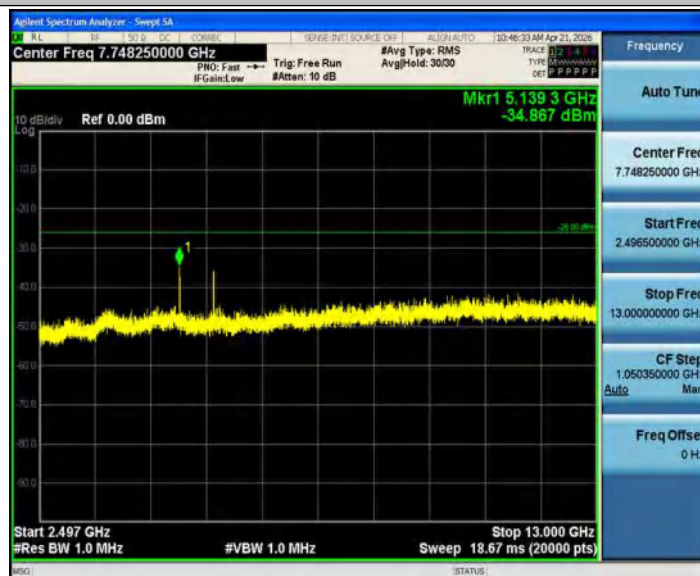
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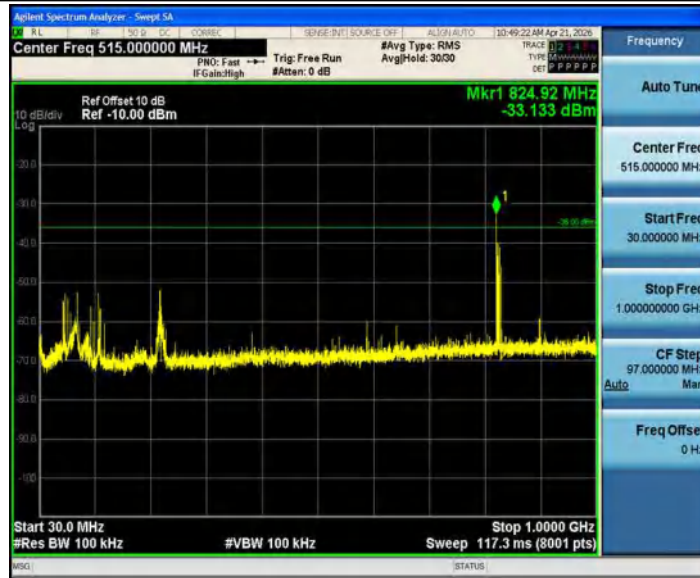
NTNV\_11N40SISO\_Ant1\_2422\_2483.5~2496.5



NTNV\_11N40SISO\_Ant1\_2422\_2496.5~13000



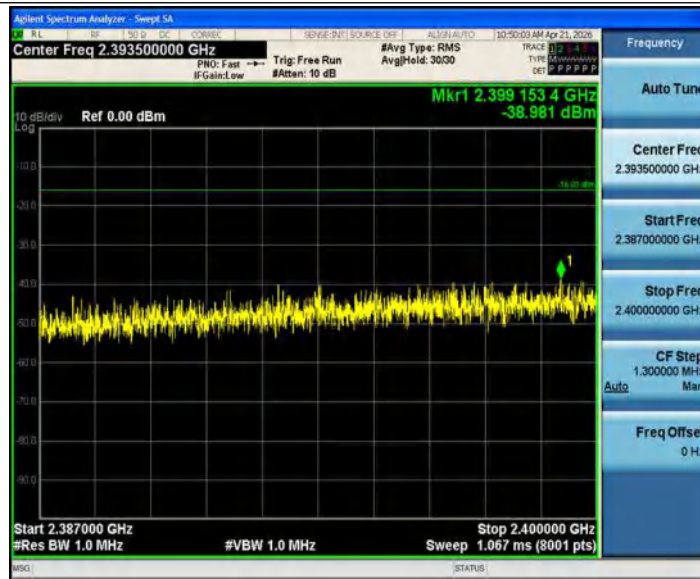
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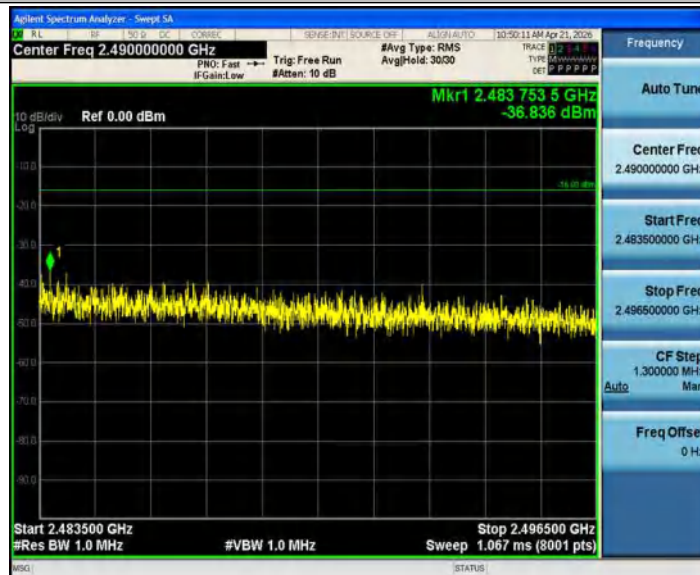
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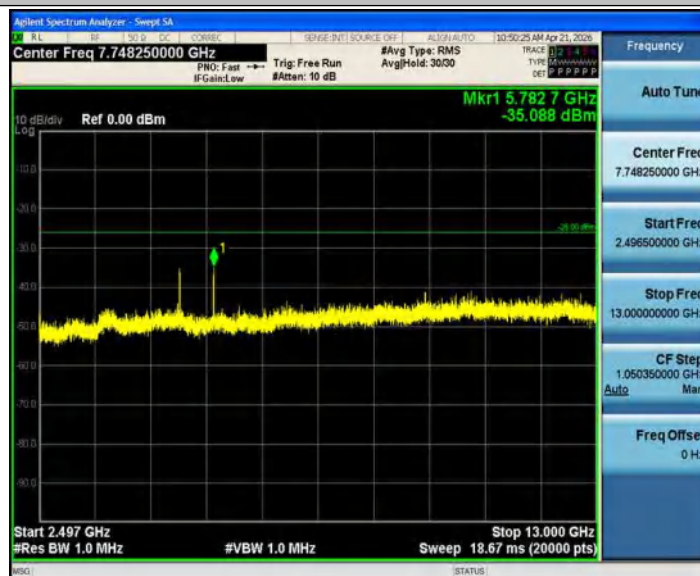
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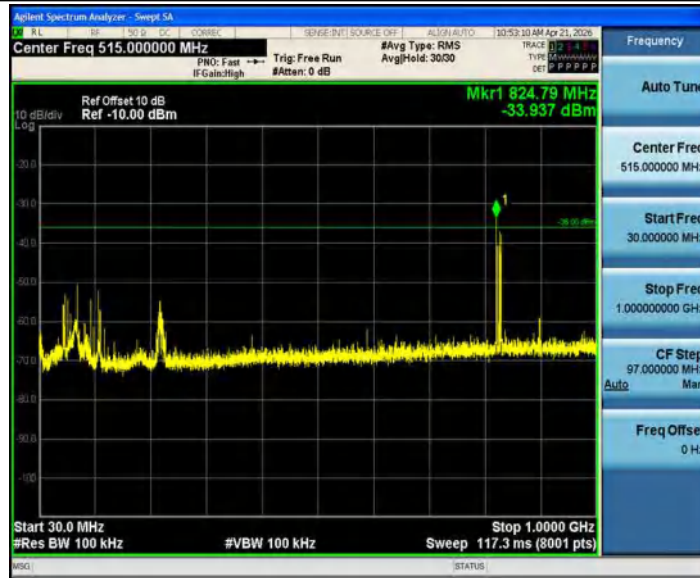
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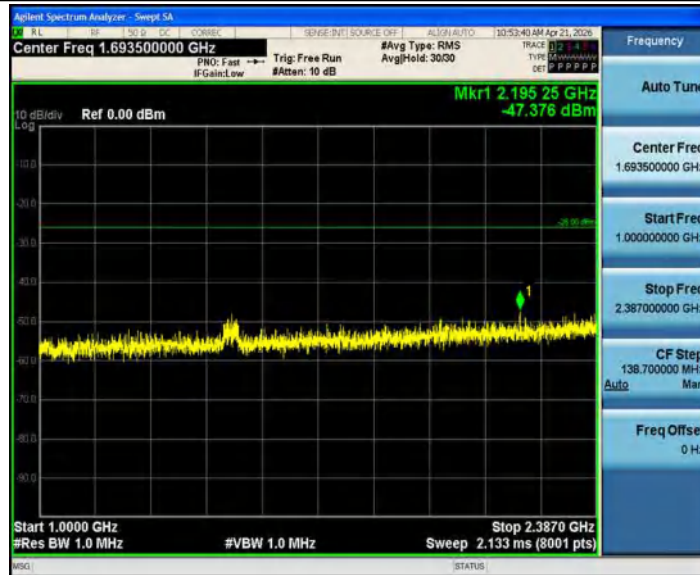
NTNV\_11N40SISO\_Ant1\_2442\_2496.5~13000



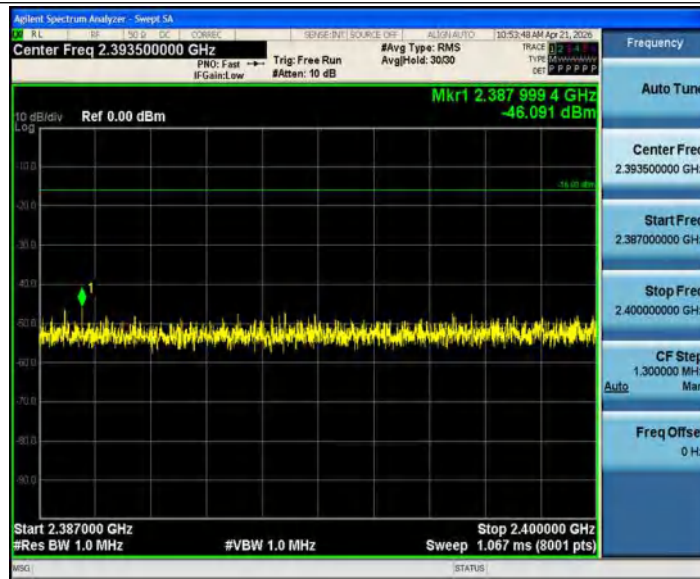
# NTNV\_11N40SISO\_Ant1\_2462\_30~1000



# NTNV\_11N40SISO\_Ant1\_2462\_1000~2387



# NTNV\_11N40SISO\_Ant1\_2462\_2387~2400



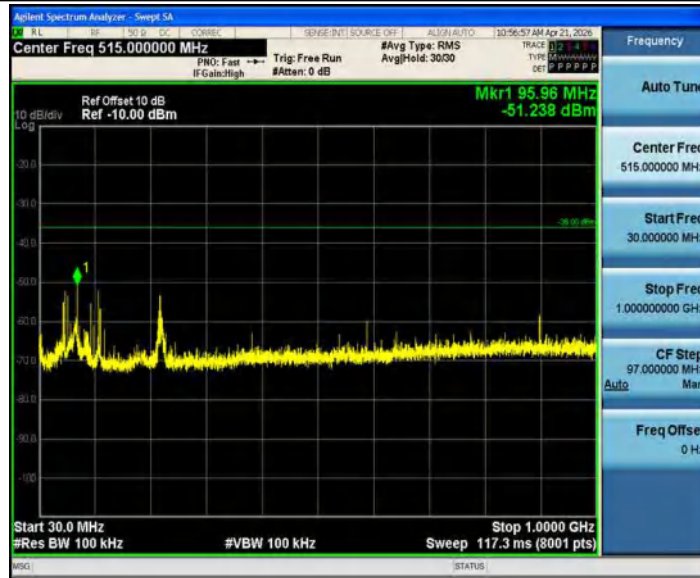
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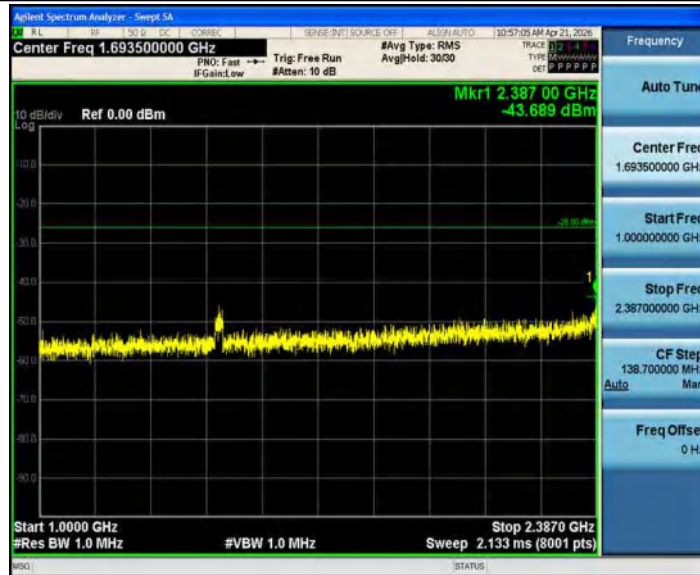
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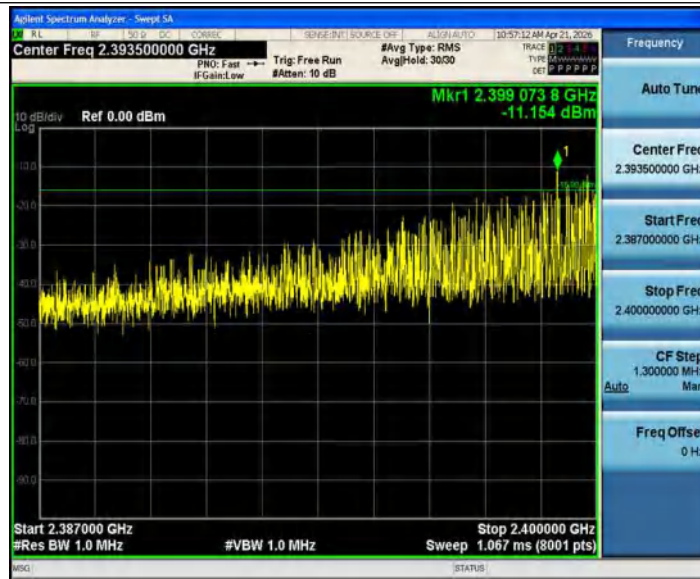
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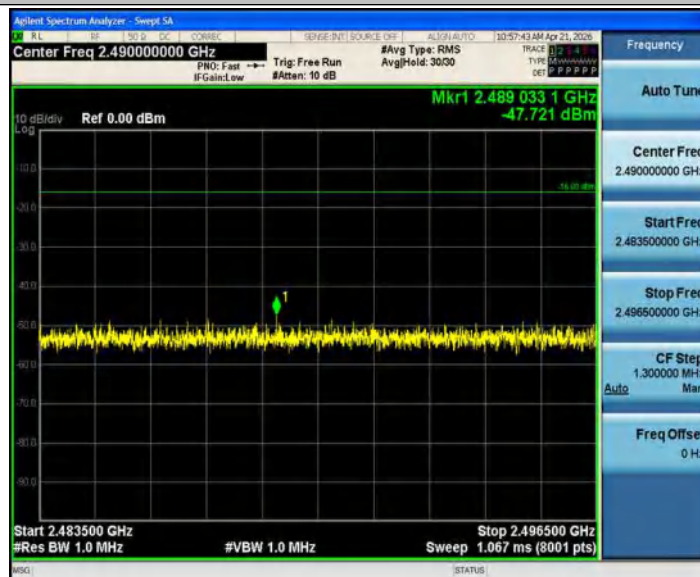
NTNV\_11AX20SISO\_Ant1\_2412\_1000~2387



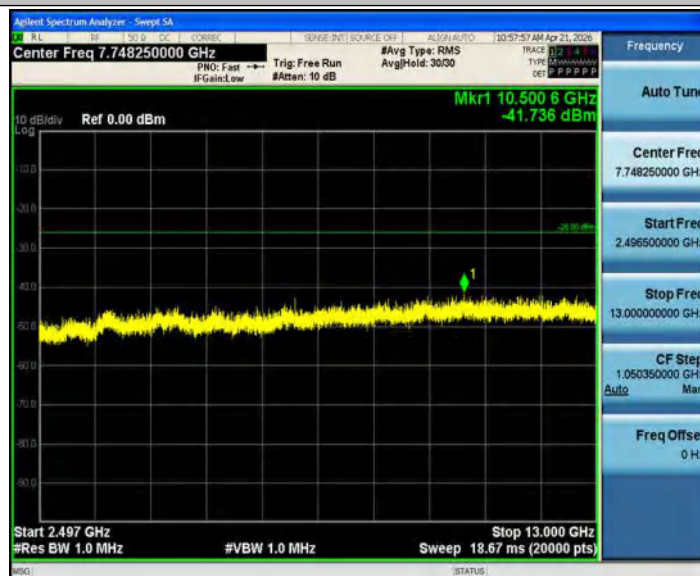
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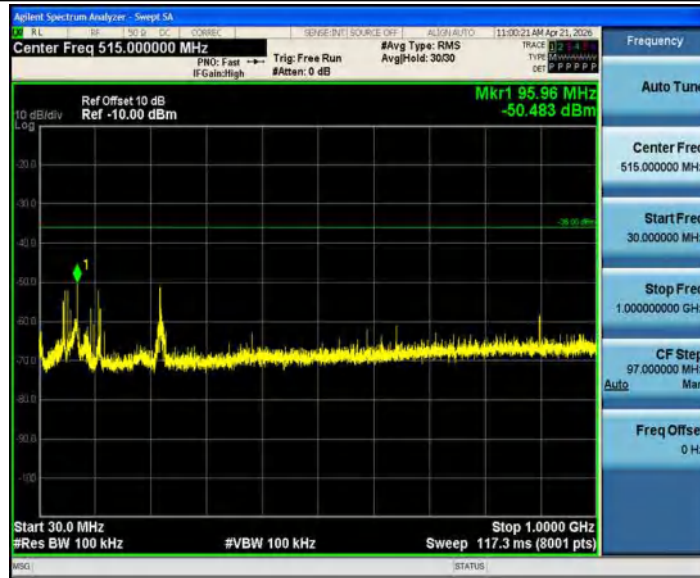
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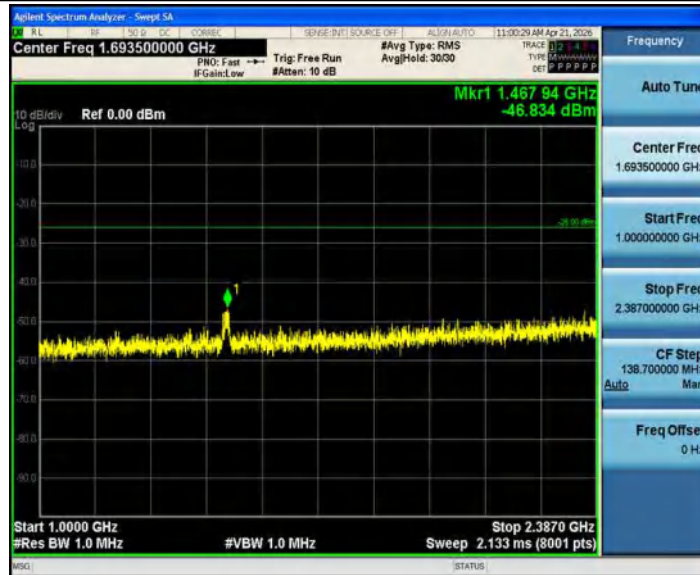
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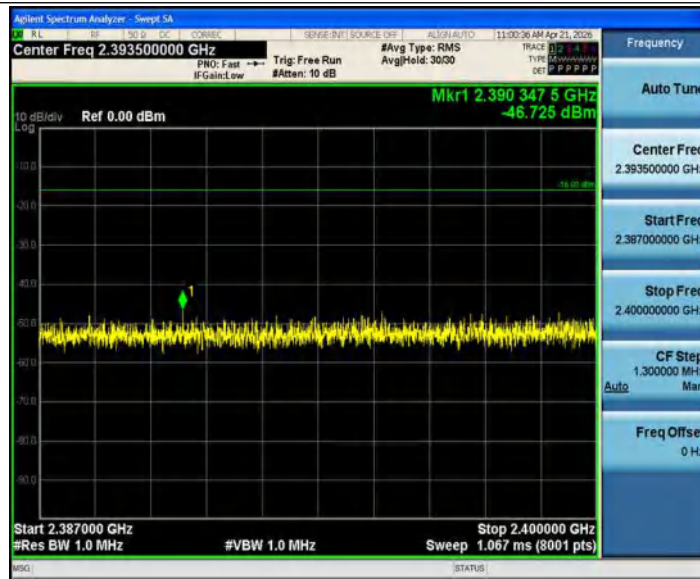
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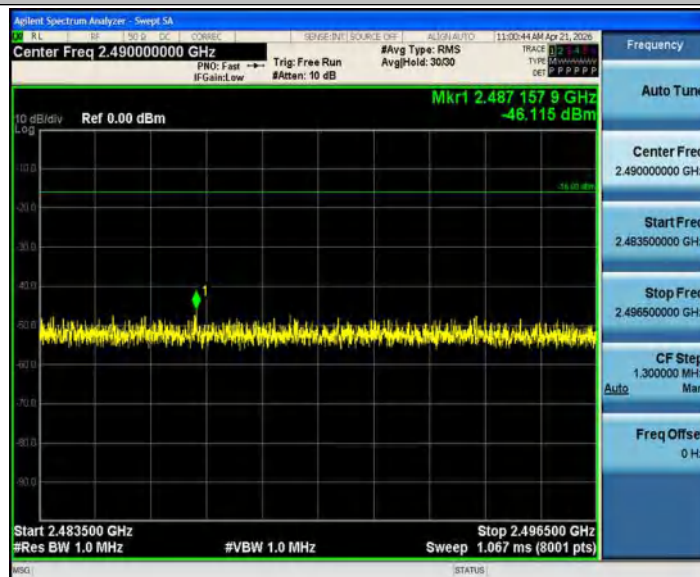
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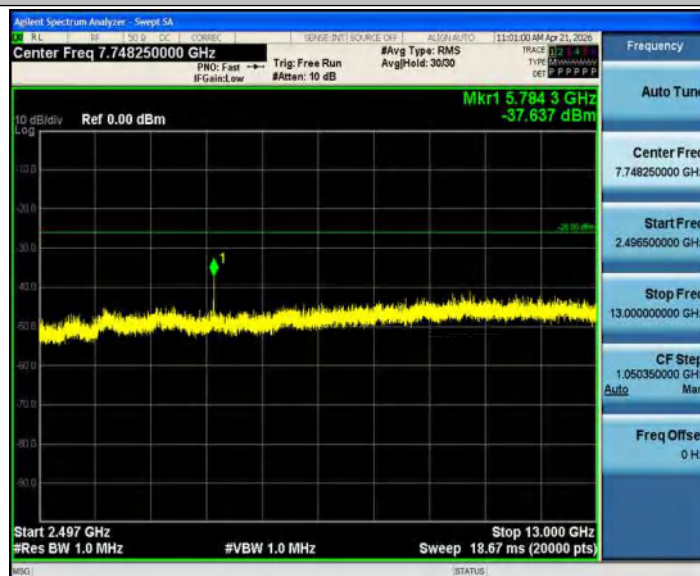
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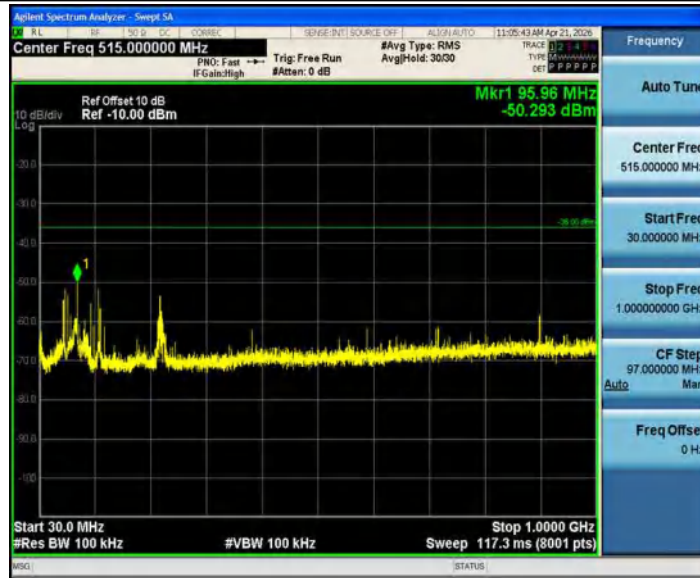
NTNV\_11AX20SISO\_Ant1\_2442\_2483.5~2496.5



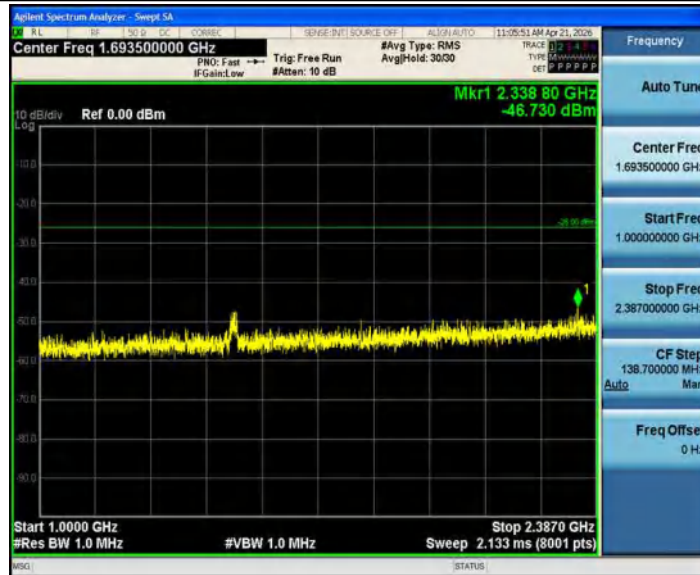
NTNV\_11AX20SISO\_Ant1\_2442\_2496.5~13000



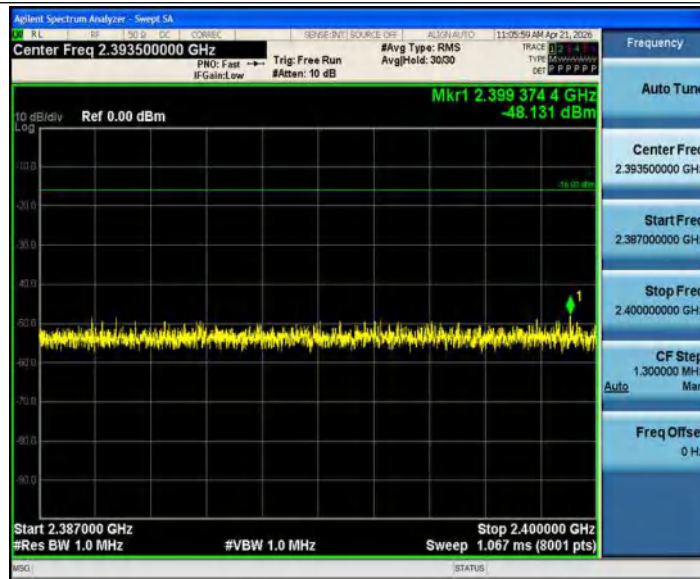
# NTNV\_11AX20SISO\_Ant1\_2472\_30~1000



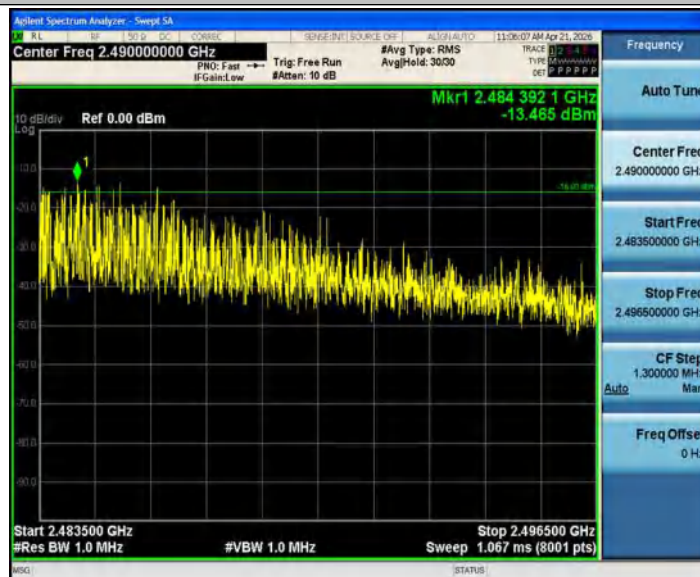
# NTNV\_11AX20SISO\_Ant1\_2472\_1000~2387



# NTNV\_11AX20SISO\_Ant1\_2472\_2387~2400



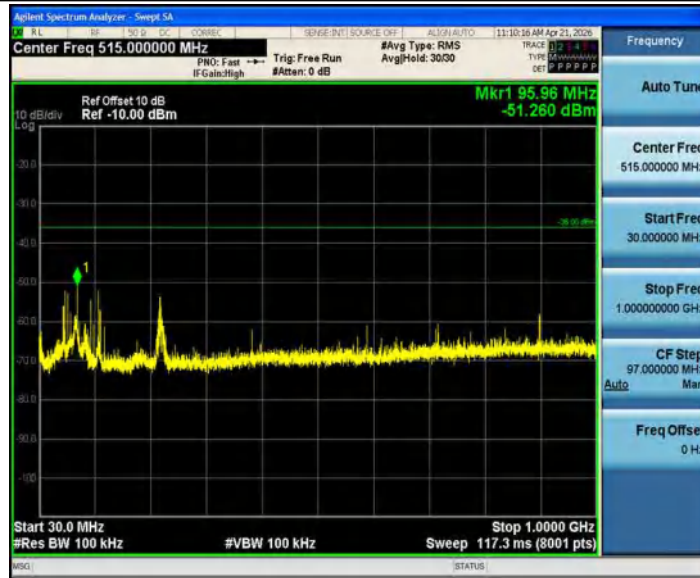
NTNV\_11AX20SISO\_Ant1\_2472\_2483.5~2496.5



NTNV\_11AX20SISO\_Ant1\_2472\_2496.5~13000



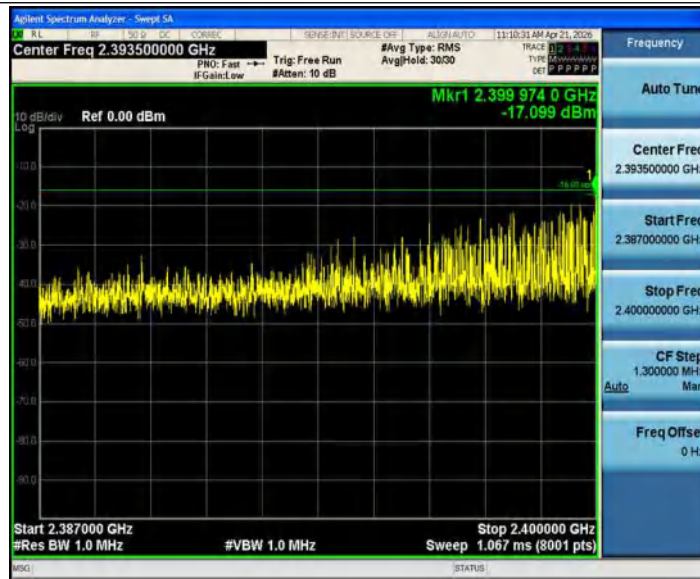
# NTNV\_11AX40SISO\_Ant1\_2422\_30~1000



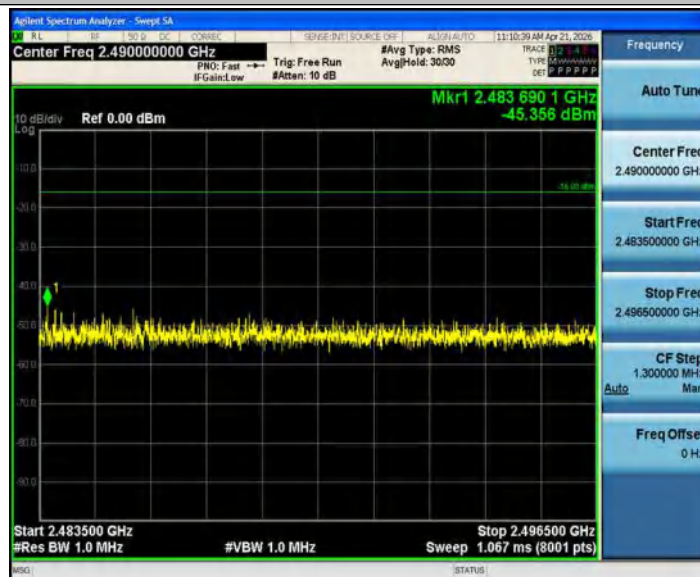
# NTNV\_11AX40SISO\_Ant1\_2422\_1000~2387



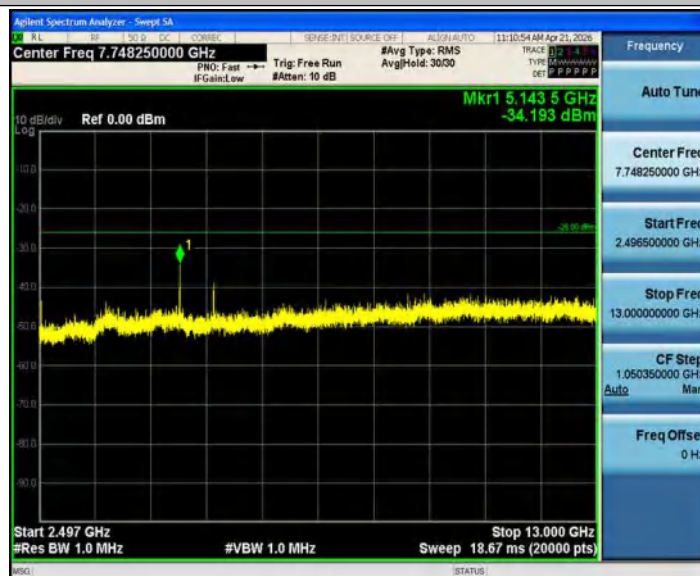
# NTNV\_11AX40SISO\_Ant1\_2422\_2387~2400



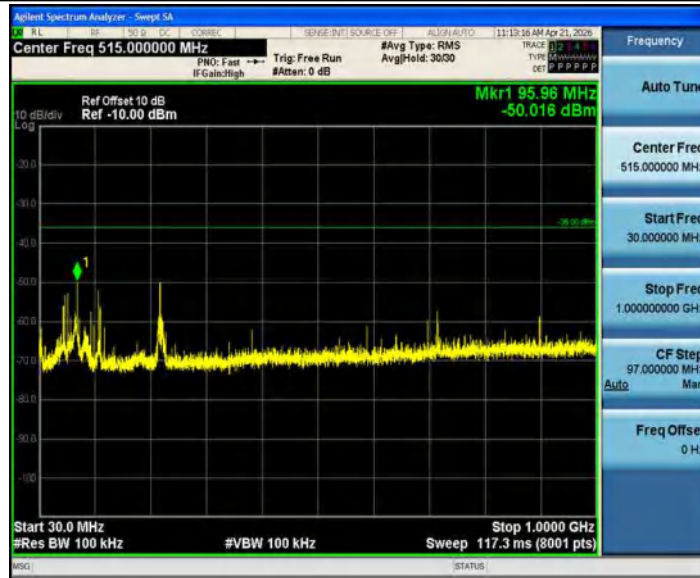
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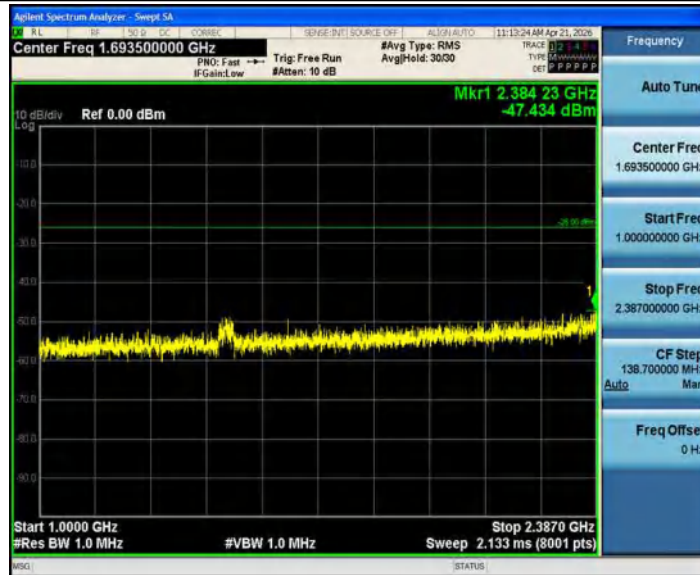
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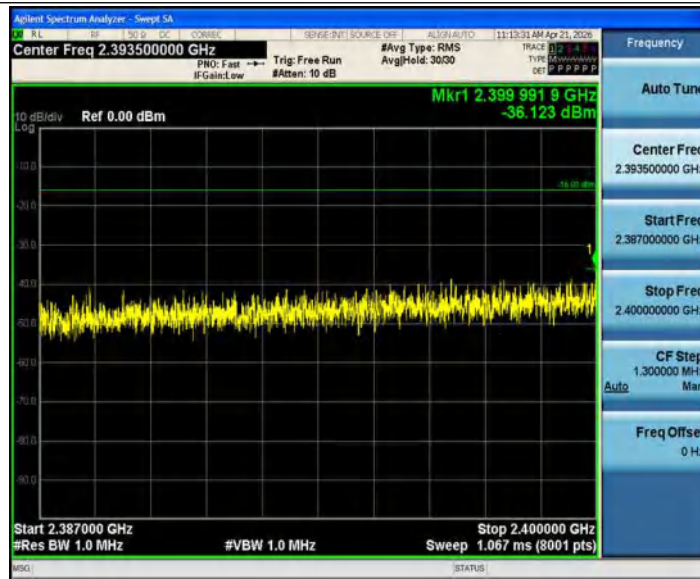
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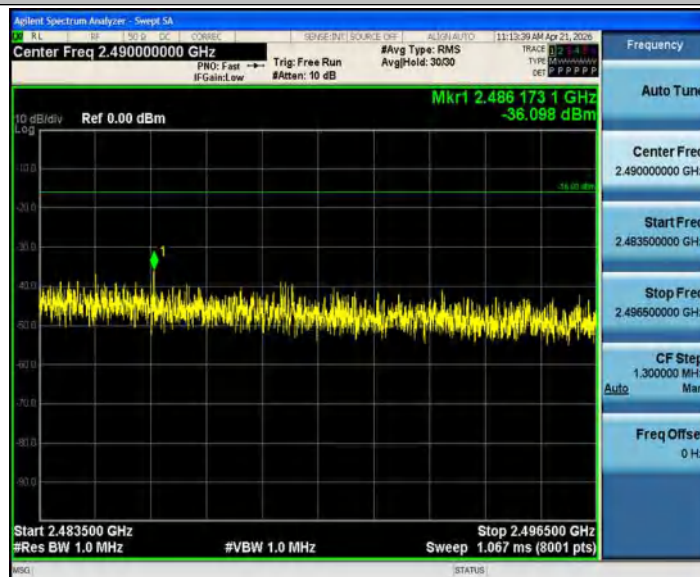
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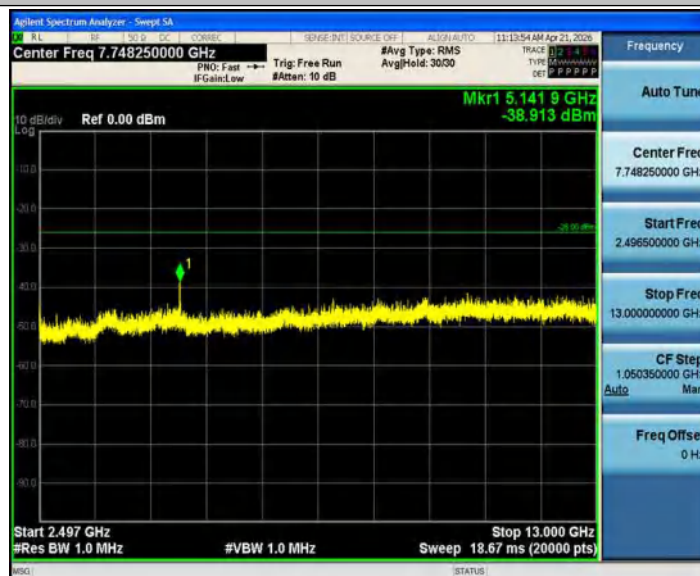
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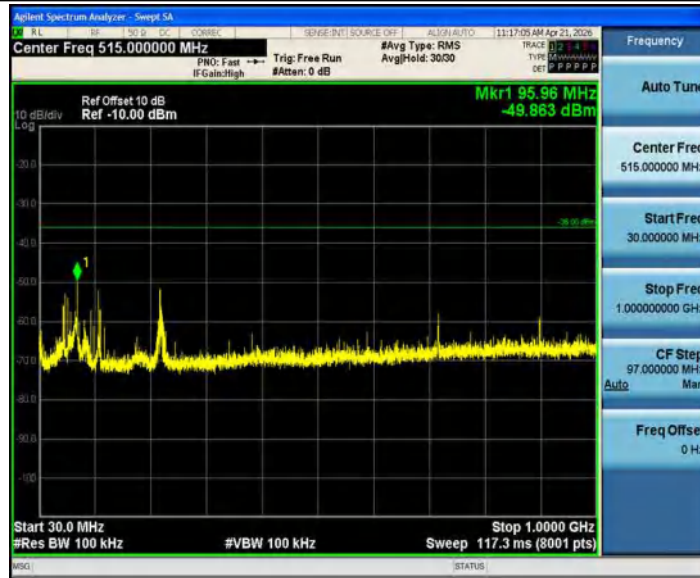
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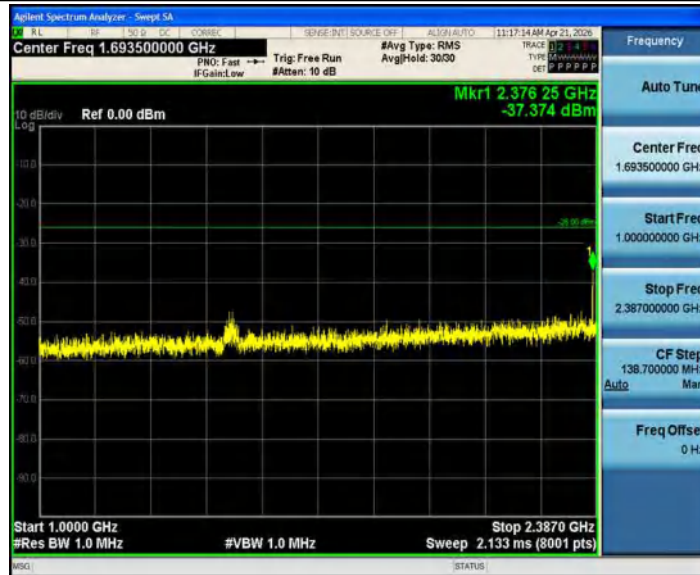
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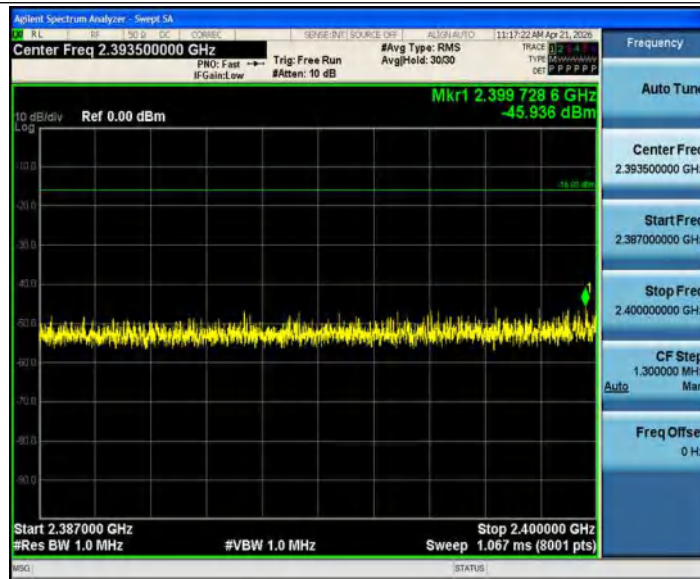
# NTNV\_11AX40SISO\_Ant1\_2462\_30~1000



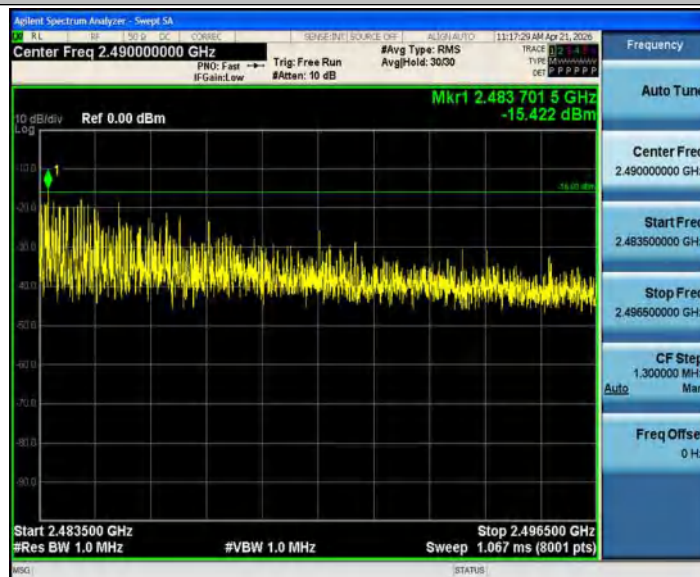
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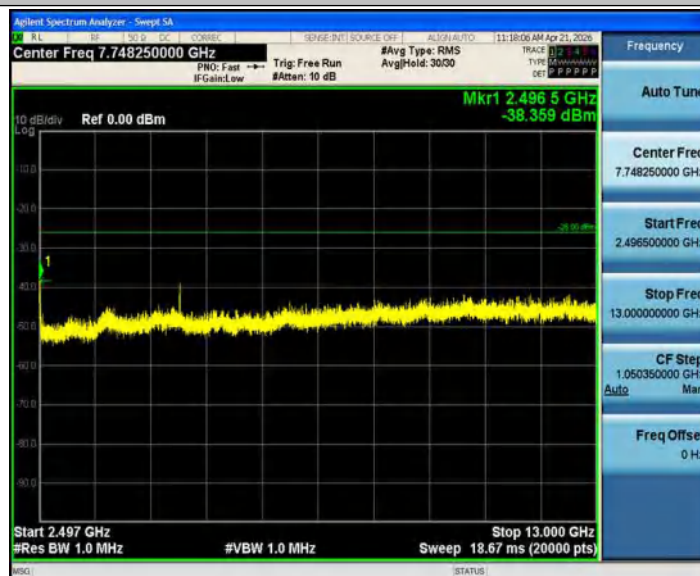
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NTNV\_11AX40SISO\_Ant1\_2462\_2483.5~2496.5

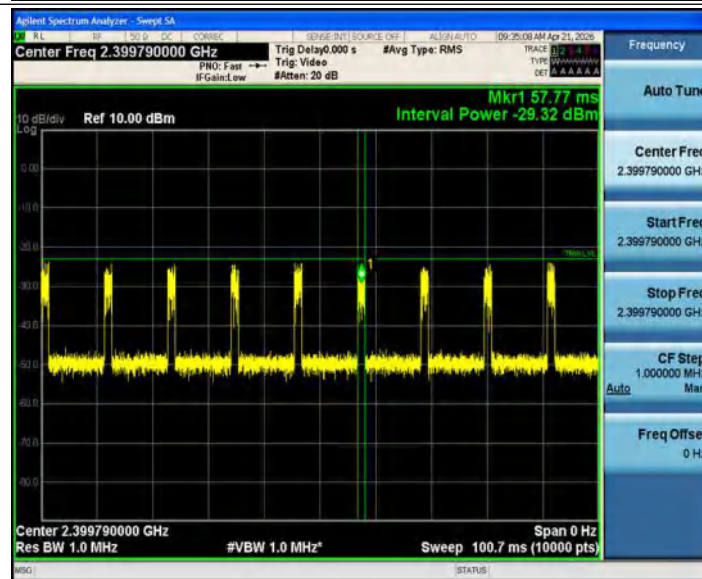
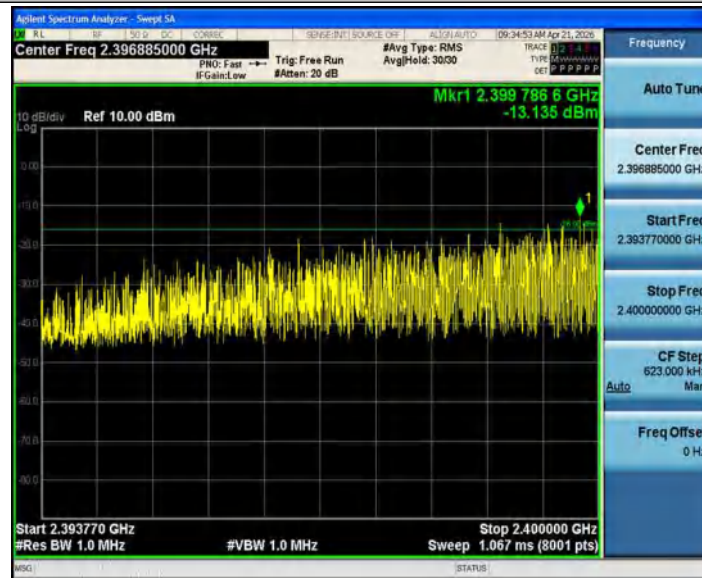


NTNV\_11AX40SISO\_Ant1\_2462\_2496.5~13000

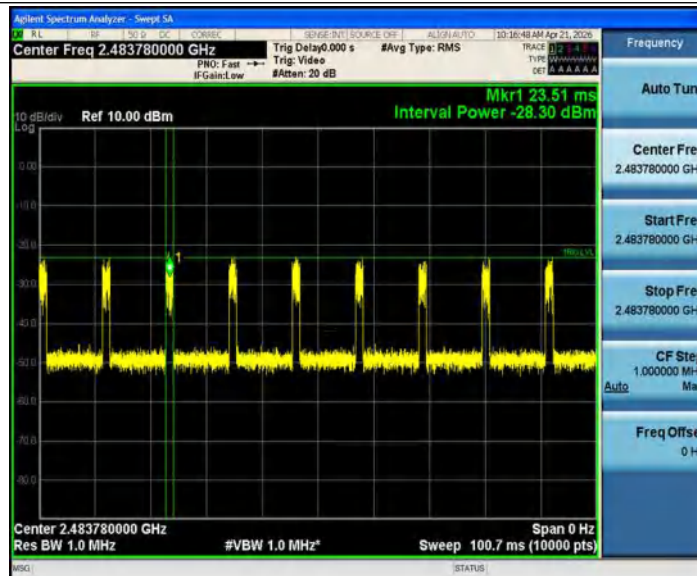
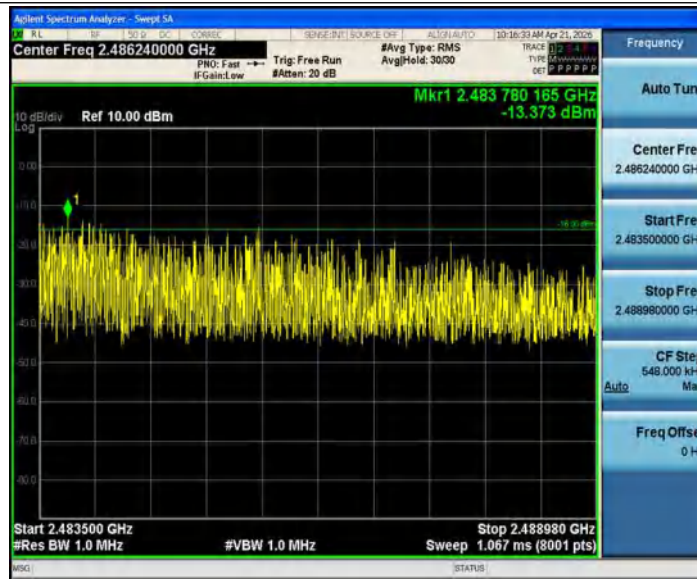


## Test Graphs\_Step2

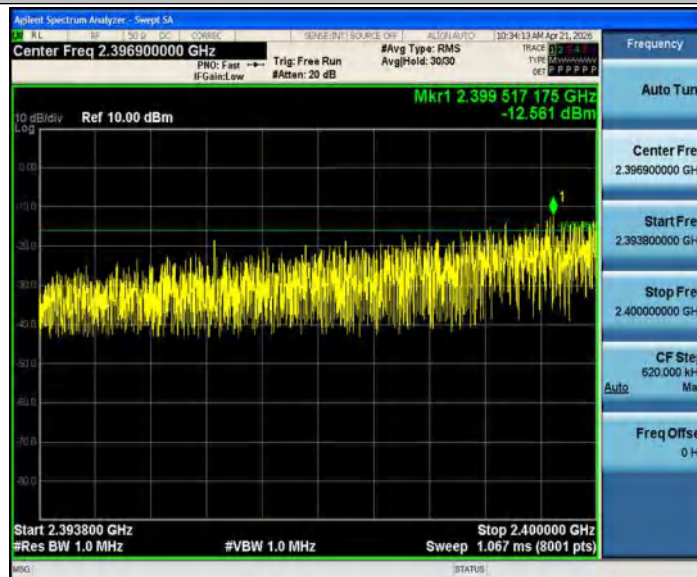
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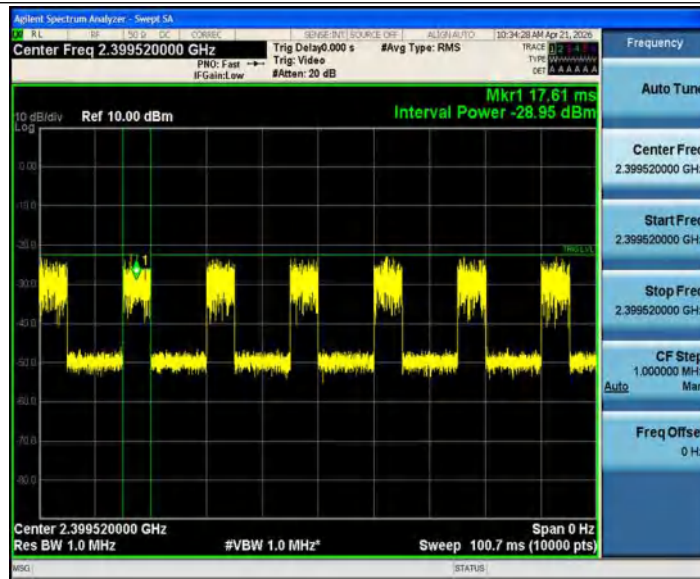


NTNV\_11G\_Ant1\_2472\_2483.98\_Ant1

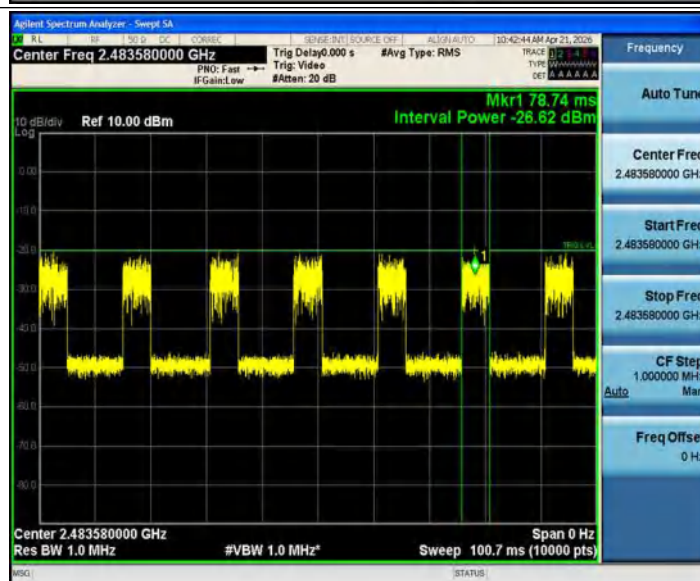
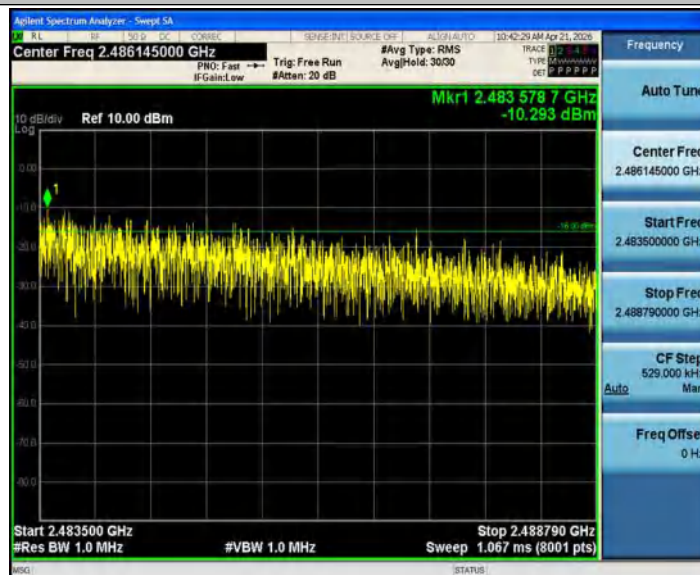


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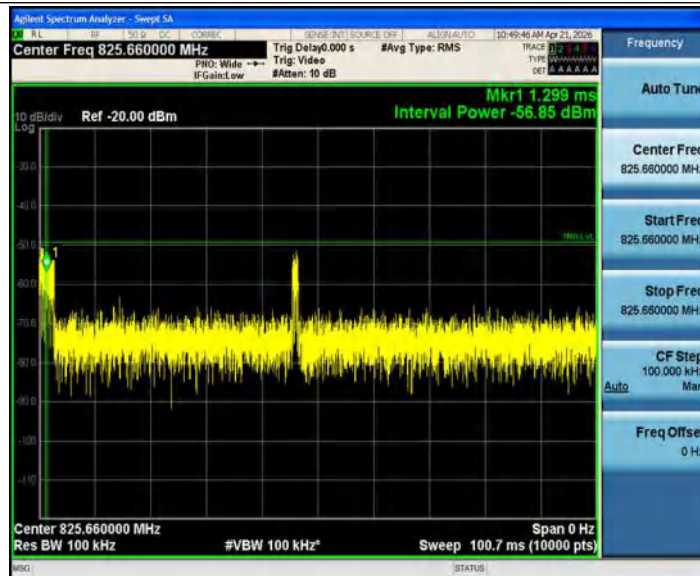




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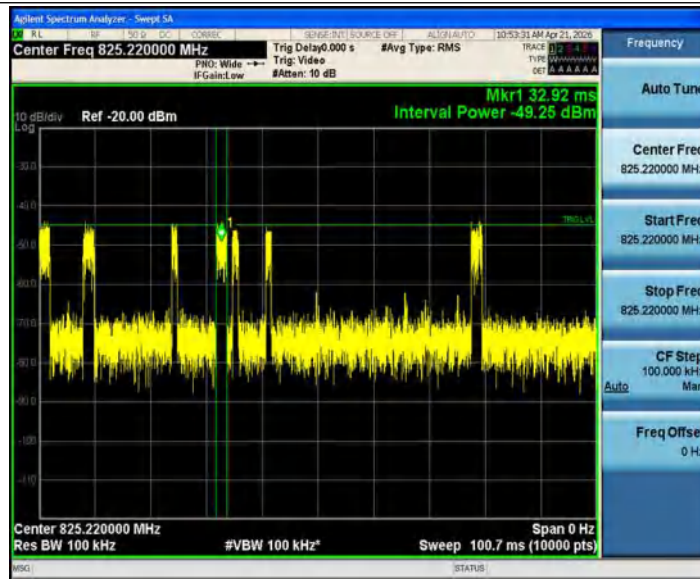


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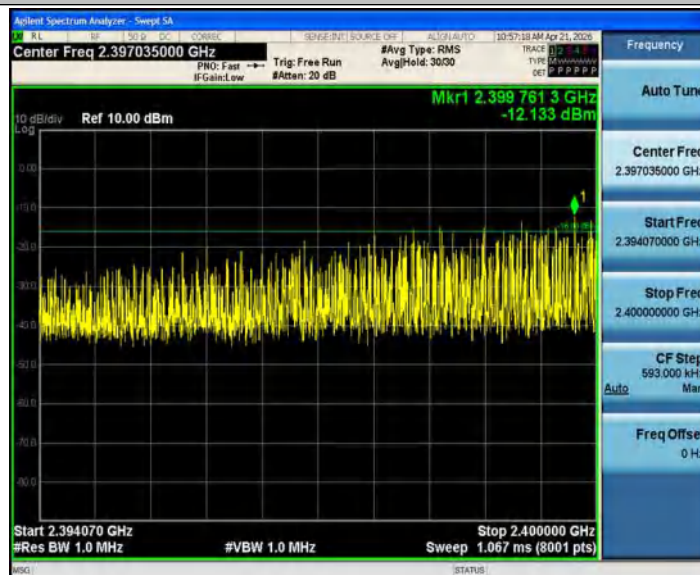


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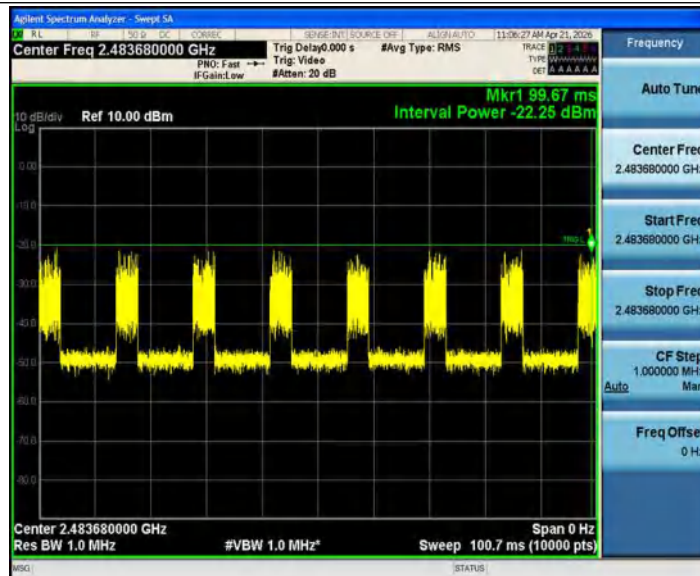
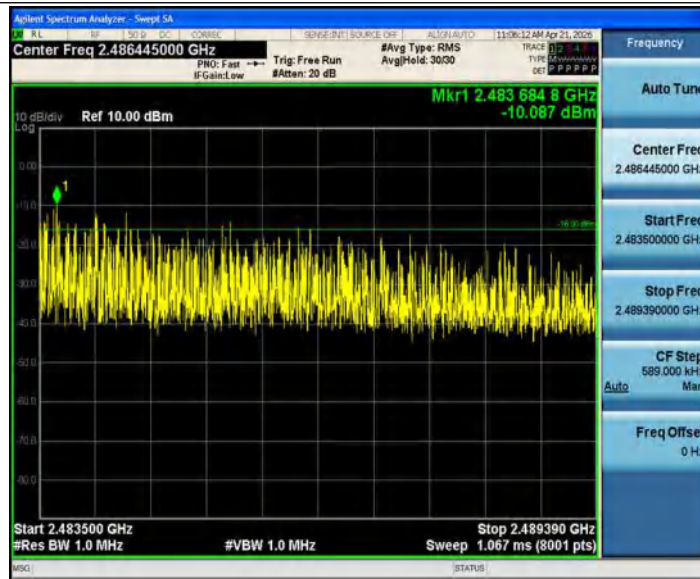




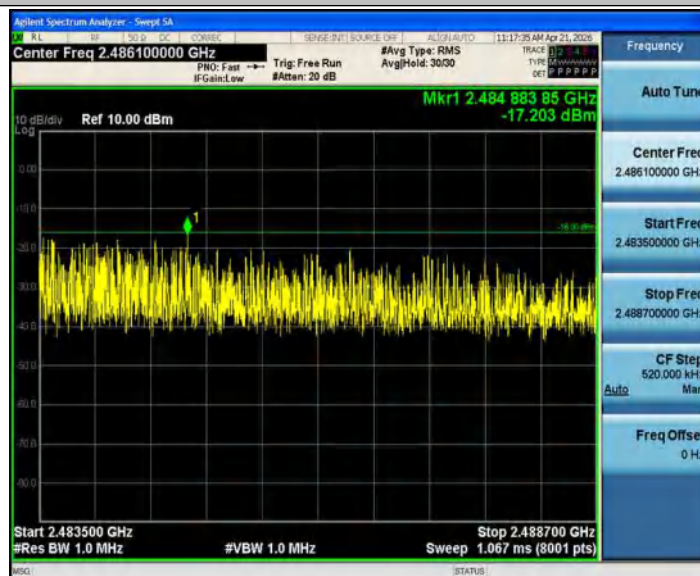
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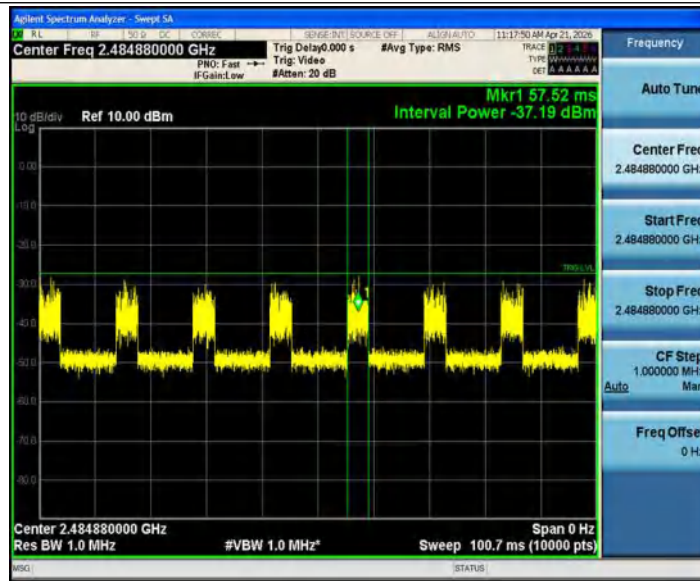


NTNV\_11AX20SISO\_Ant1\_2472\_2484.39\_Ant1



NTNV\_11AX40SISO\_Ant1\_2462\_2483.70\_Ant1



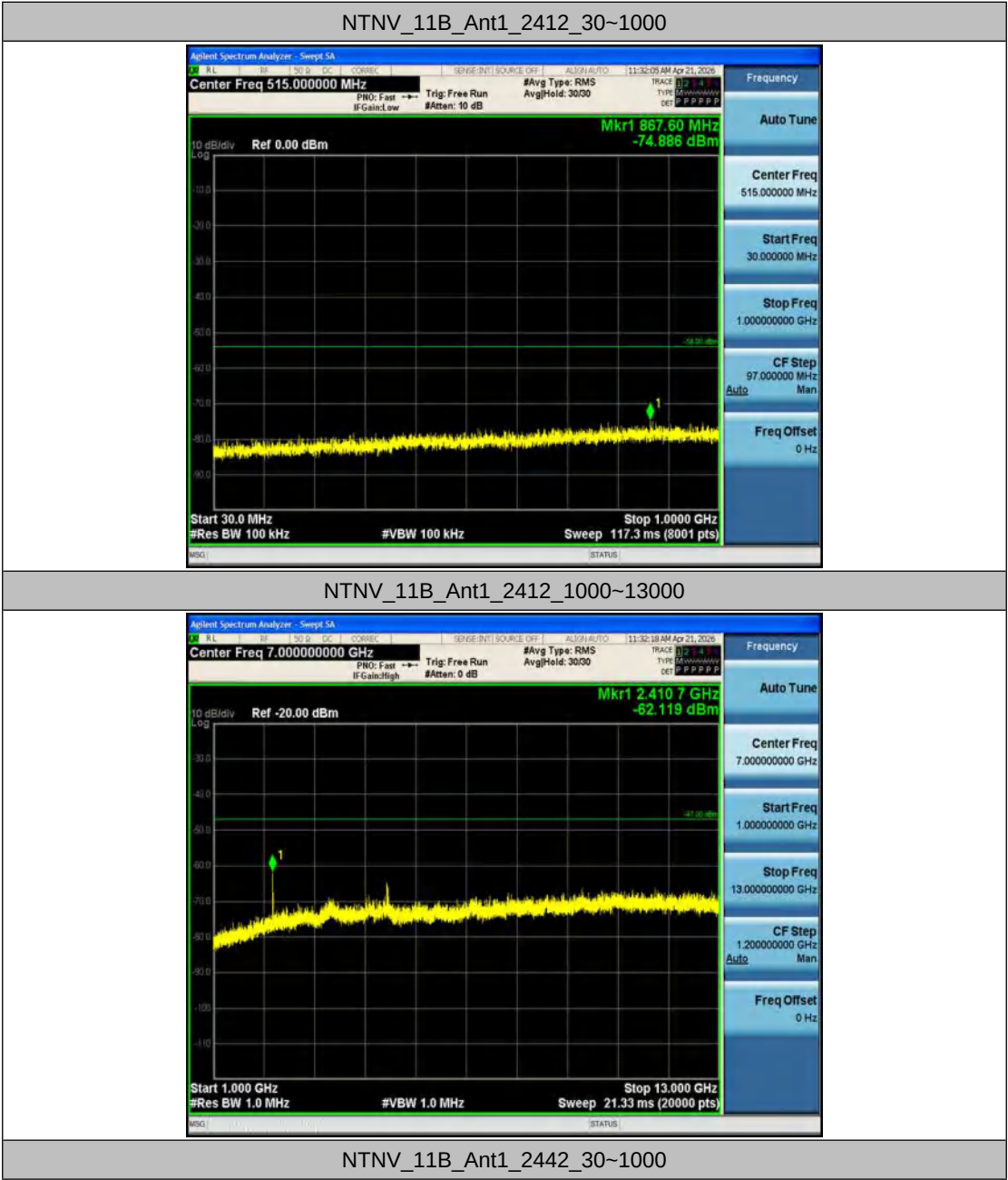


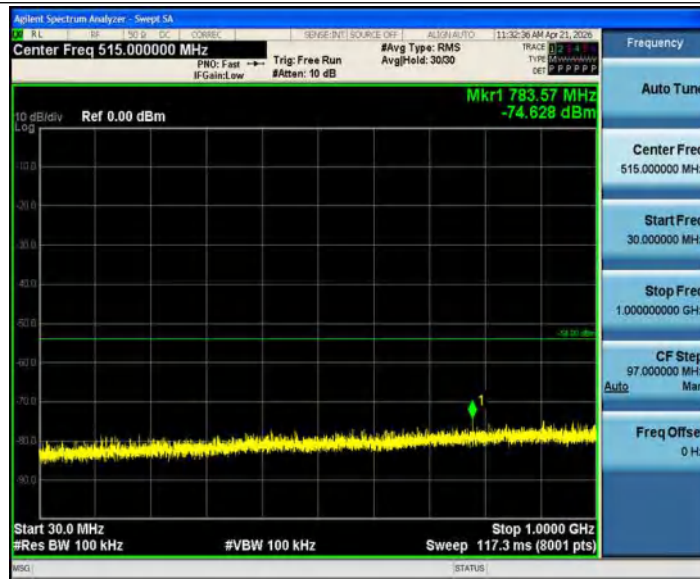
## Appendix B: Spurious Emission of RX

### Test Result

| TestCondition | TestMode    | Antenna | Freq(MHz) | Freq.Range [MHz] | Result [dBm] | Limit [dBm] | Result [nW] | Limit [nW] | Verdict |
|---------------|-------------|---------|-----------|------------------|--------------|-------------|-------------|------------|---------|
| NTNV          | 11B         | Ant1    | 2412      | 30~1000          | -74.89       | ≤-54        | 0.03243     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -62.12       | ≤-47        | 0.61376     | ≤20        | PASS    |
|               |             |         | 2442      | 30~1000          | -74.63       | ≤-54        | 0.03443     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -64.68       | ≤-47        | 0.34041     | ≤20        | PASS    |
|               |             |         | 2472      | 30~1000          | -74.61       | ≤-54        | 0.03459     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -63.07       | ≤-47        | 0.49317     | ≤20        | PASS    |
|               | 11G         | Ant1    | 2412      | 30~1000          | -74.92       | ≤-54        | 0.03221     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -61.10       | ≤-47        | 0.77625     | ≤20        | PASS    |
|               |             |         | 2442      | 30~1000          | -74.75       | ≤-54        | 0.03350     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -60.15       | ≤-47        | 0.96605     | ≤20        | PASS    |
|               |             |         | 2472      | 30~1000          | -75.29       | ≤-54        | 0.02958     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -63.15       | ≤-47        | 0.48417     | ≤20        | PASS    |
|               | 11N20 SISO  | Ant1    | 2412      | 30~1000          | -74.85       | ≤-54        | 0.03273     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -60.30       | ≤-47        | 0.93325     | ≤20        | PASS    |
|               |             |         | 2442      | 30~1000          | -74.32       | ≤-54        | 0.03698     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -66.15       | ≤-47        | 0.24266     | ≤20        | PASS    |
|               |             |         | 2472      | 30~1000          | -74.95       | ≤-54        | 0.03199     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -61.36       | ≤-47        | 0.73114     | ≤20        | PASS    |
|               | 11N40 SISO  | Ant1    | 2422      | 30~1000          | -75.36       | ≤-54        | 0.02911     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -62.19       | ≤-47        | 0.60395     | ≤20        | PASS    |
|               |             |         | 2442      | 30~1000          | -74.88       | ≤-54        | 0.03251     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -63.18       | ≤-47        | 0.48084     | ≤20        | PASS    |
|               |             |         | 2462      | 30~1000          | -73.94       | ≤-54        | 0.04036     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -59.13       | ≤-47        | 1.22180     | ≤20        | PASS    |
|               | 11AX20 SISO | Ant1    | 2412      | 30~1000          | -75.27       | ≤-54        | 0.02972     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -60.60       | ≤-47        | 0.87096     | ≤20        | PASS    |
|               |             |         | 2442      | 30~1000          | -75.41       | ≤-54        | 0.02877     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -59.77       | ≤-47        | 1.05439     | ≤20        | PASS    |
|               |             |         | 2472      | 30~1000          | -73.96       | ≤-54        | 0.04018     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -62.13       | ≤-47        | 0.61235     | ≤20        | PASS    |
|               | 11AX40 SISO | Ant1    | 2422      | 30~1000          | -74.69       | ≤-54        | 0.03396     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -63.28       | ≤-47        | 0.46989     | ≤20        | PASS    |
|               |             |         | 2442      | 30~1000          | -75.03       | ≤-54        | 0.03141     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -61.36       | ≤-47        | 0.73114     | ≤20        | PASS    |
|               |             |         | 2462      | 30~1000          | -74.41       | ≤-54        | 0.03622     | ≤4         | PASS    |
|               |             |         |           | 1000~13000       | -62.92       | ≤-47        | 0.51050     | ≤20        | PASS    |

Test Graphs

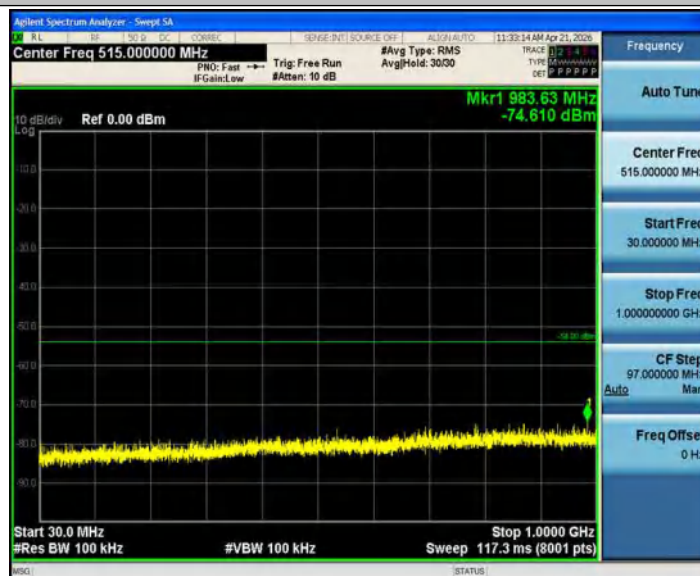




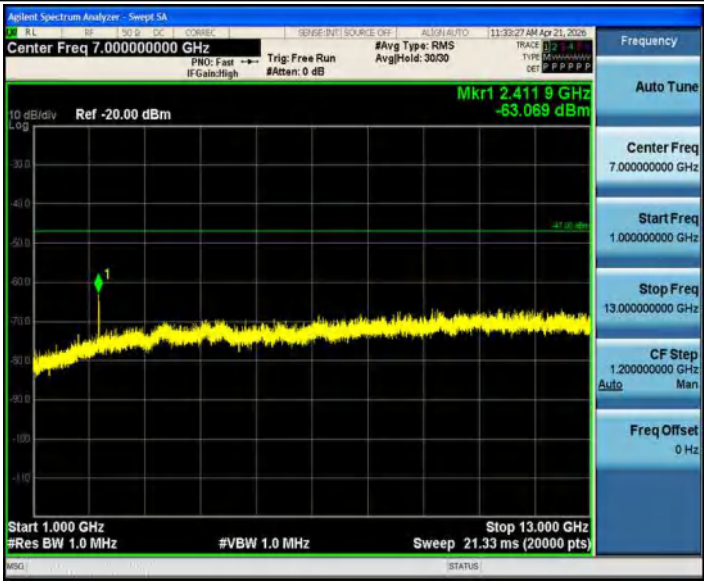
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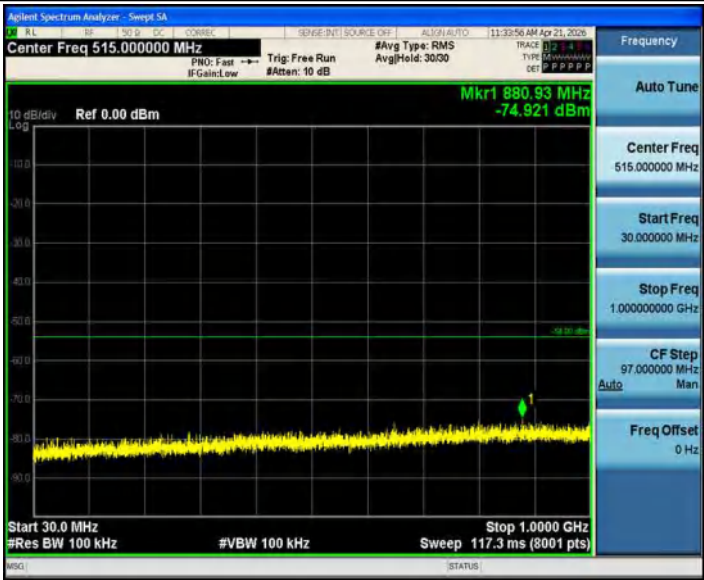
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NTNV\_11B\_Ant1\_2472\_1000~13000



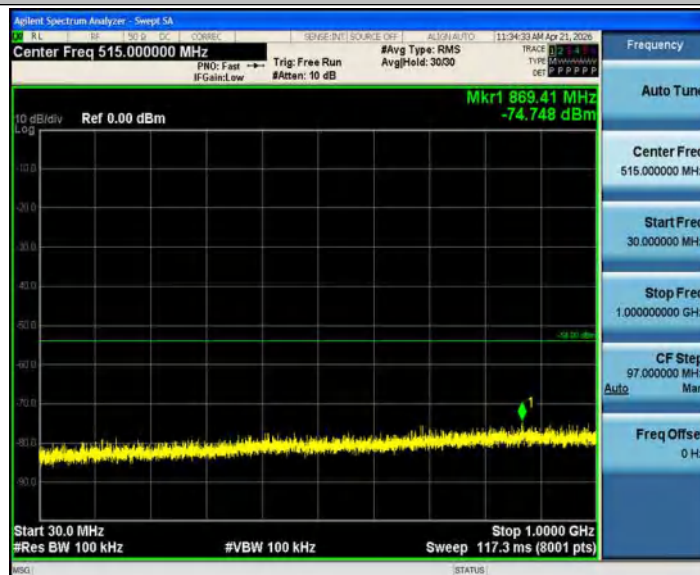
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NTNV\_11G\_Ant1\_2412\_1000~13000



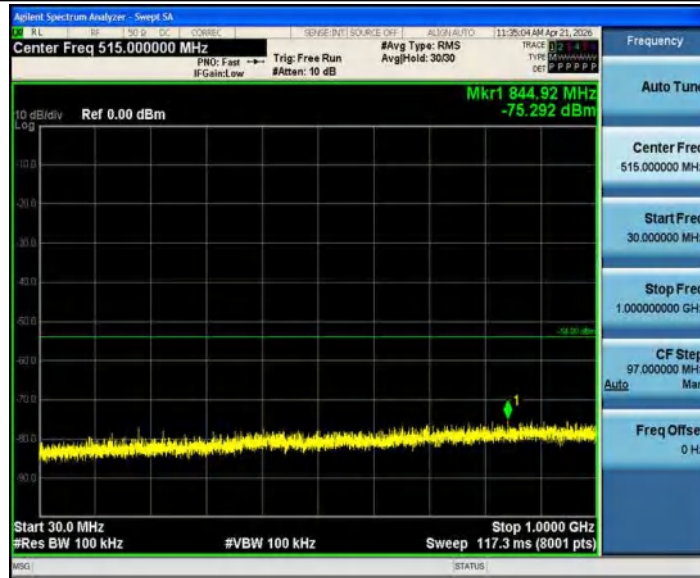
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NTNV\_11G\_Ant1\_2442\_1000~13000



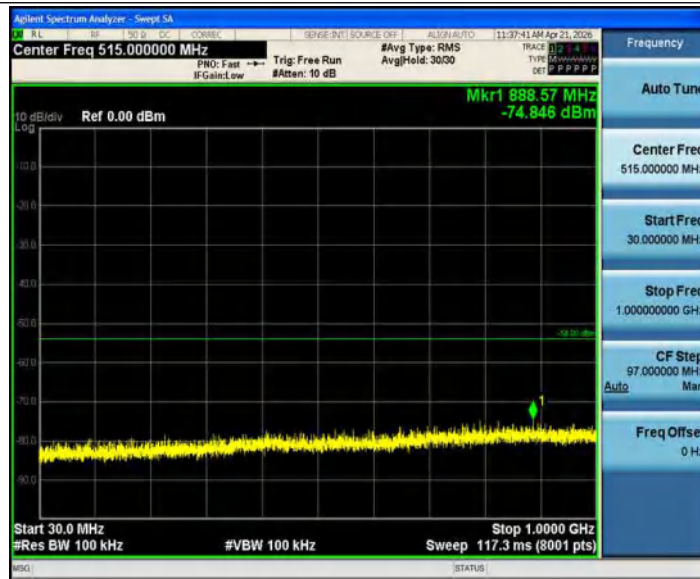
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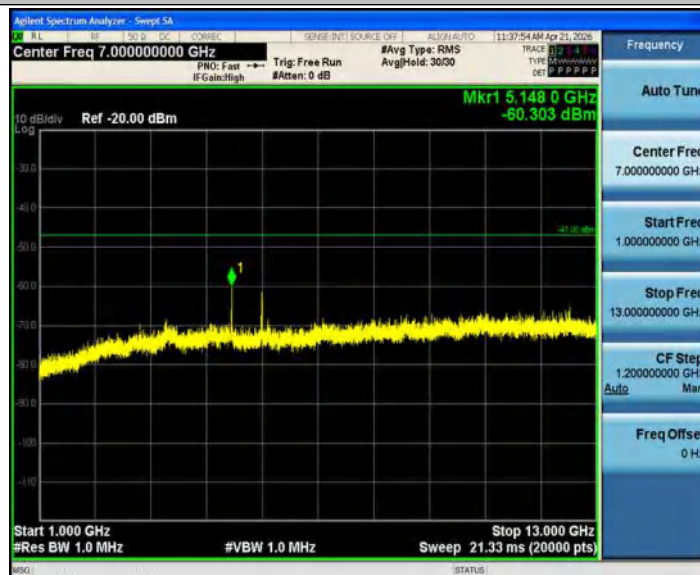
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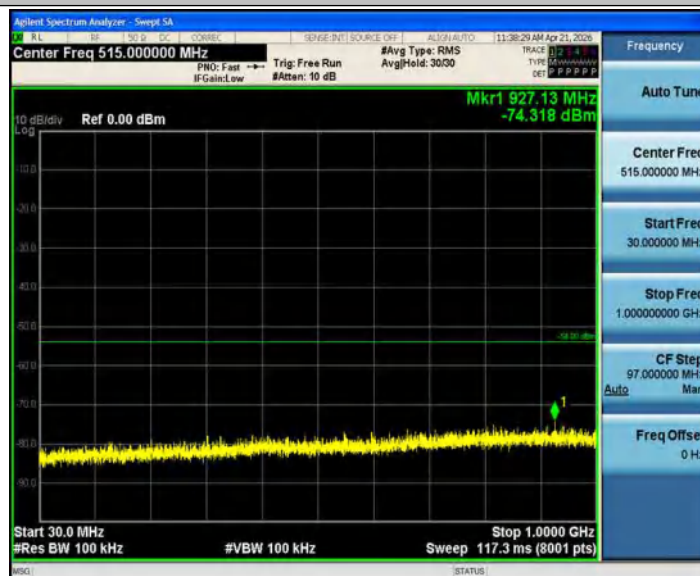
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NTNV\_11N20SISO\_Ant1\_2412\_1000~13000



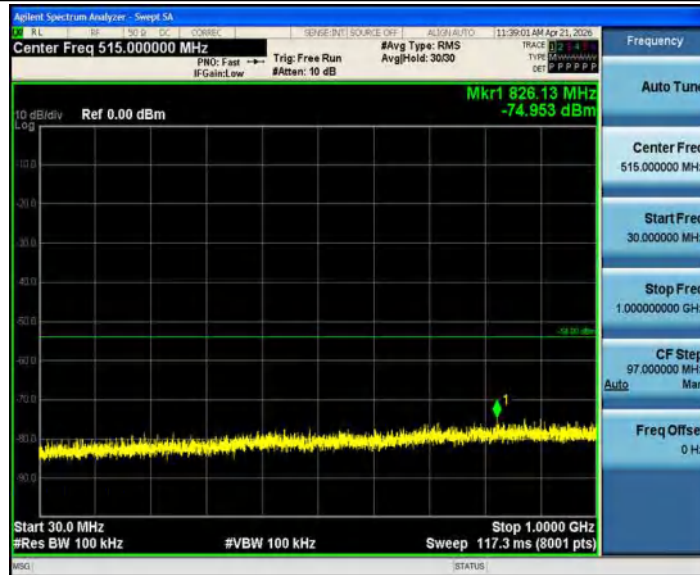
NTNV\_11N20SISO\_Ant1\_2442\_30~1000



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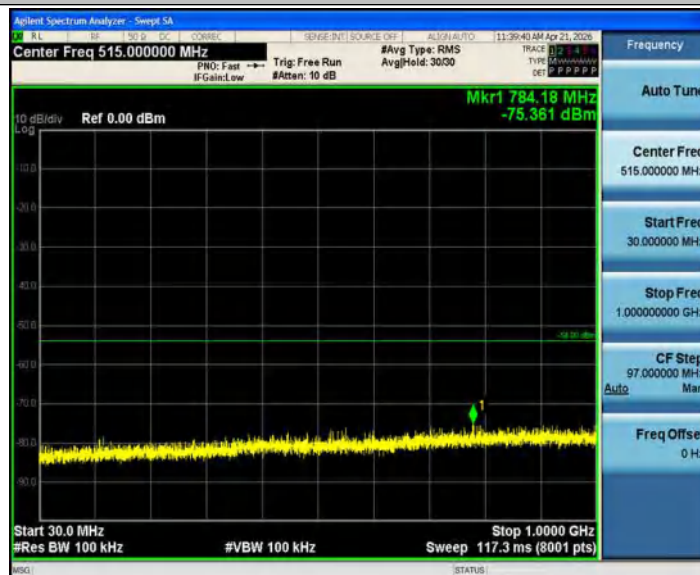
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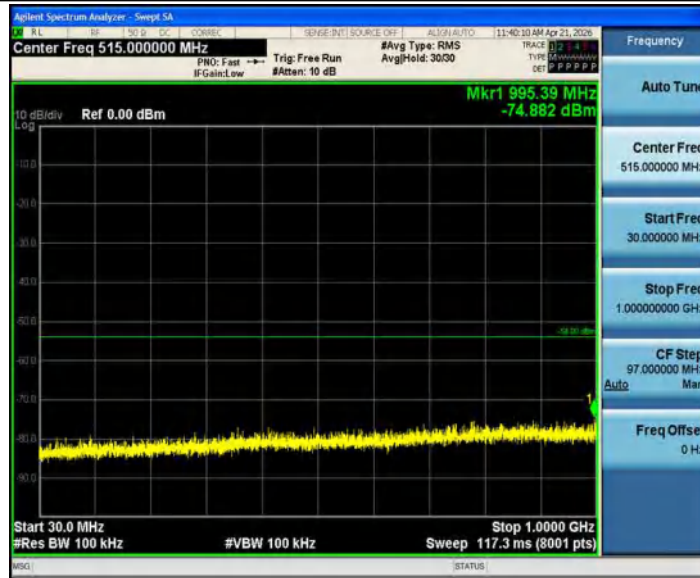
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NTNV\_11N40SISO\_Ant1\_2422\_1000~13000



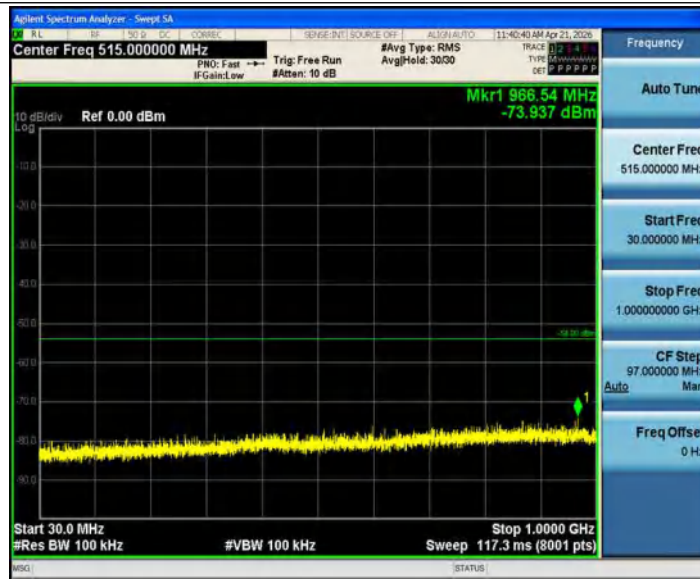
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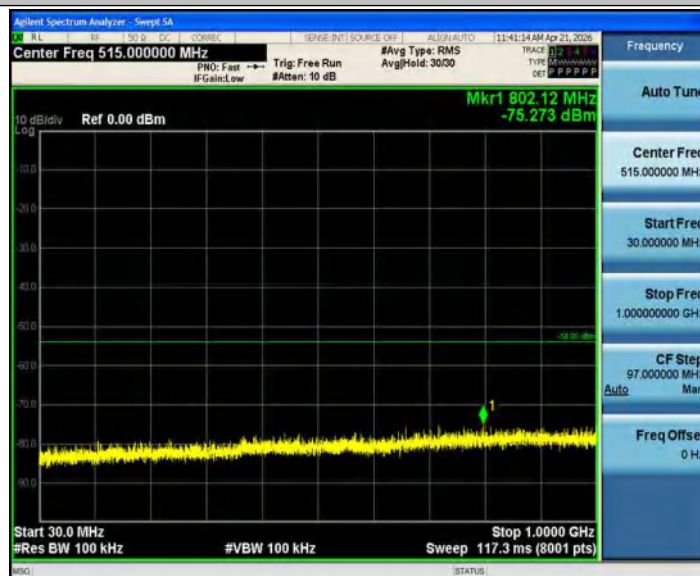
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NTNV\_11N40SISO\_Ant1\_2462\_1000~13000



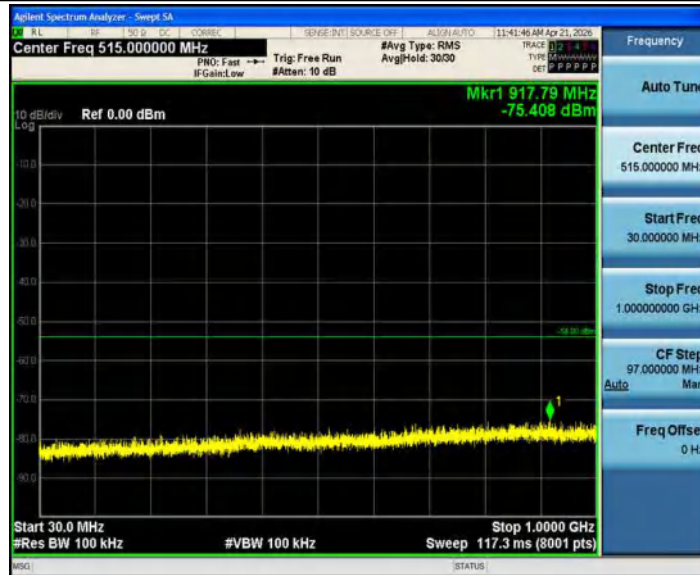
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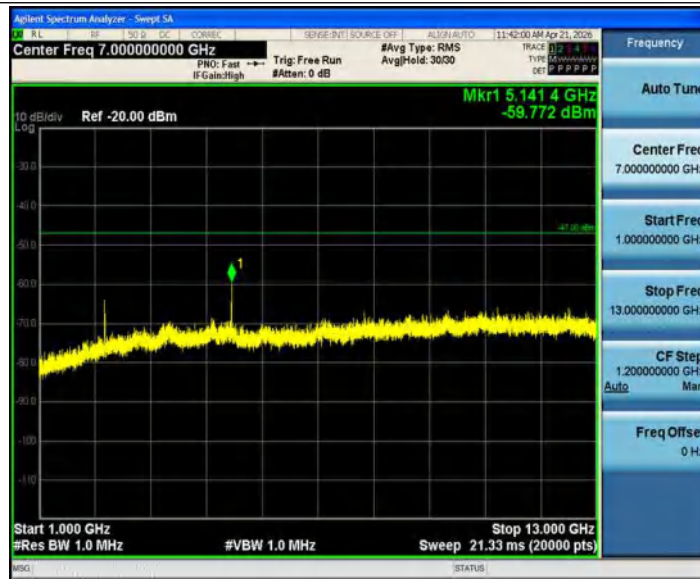
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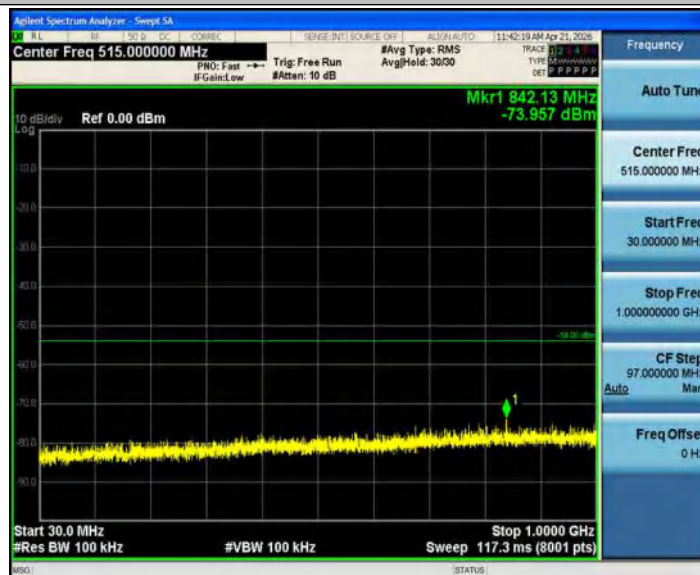
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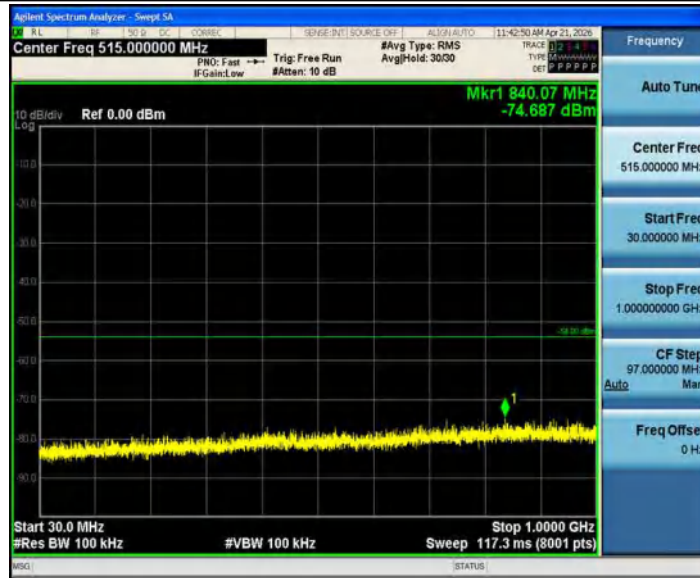
NTNV\_11AX20SISO\_Ant1\_2472\_30~1000



NTNV\_11AX20SISO\_Ant1\_2472\_1000~13000



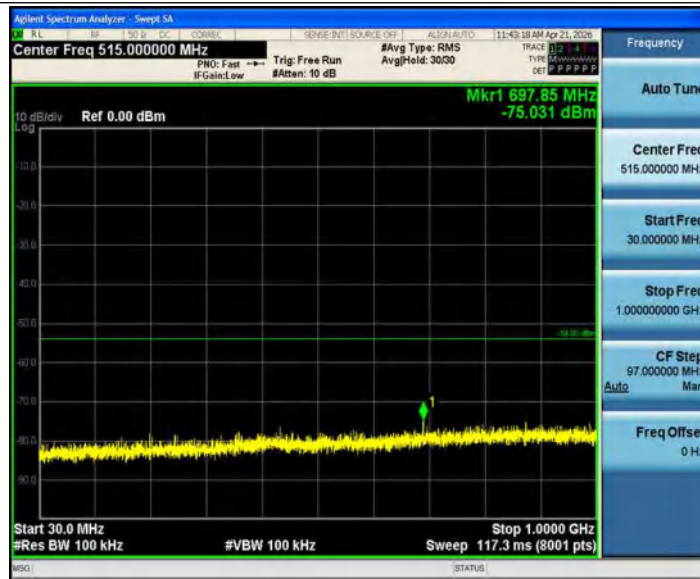
NTNV\_11AX40SISO\_Ant1\_2422\_30~1000



NTNV\_11AX40SISO\_Ant1\_2422\_1000~13000



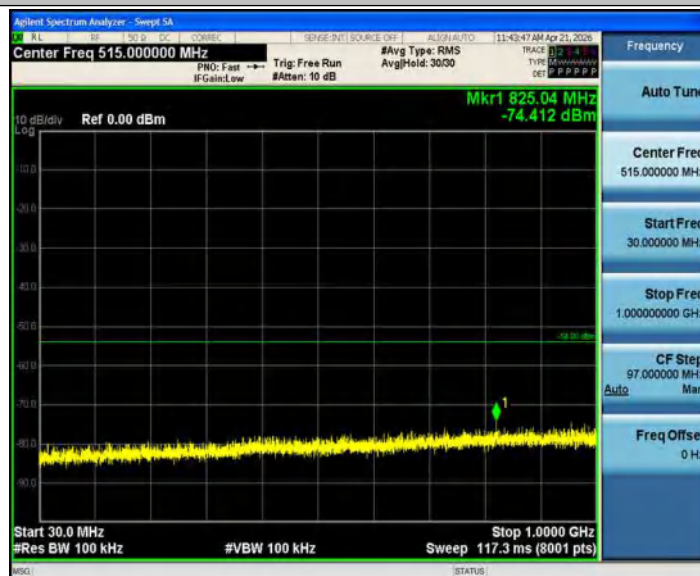
NTNV\_11AX40SISO\_Ant1\_2442\_30~1000



NTNV\_11AX40SISO\_Ant1\_2442\_1000~13000



NTNV\_11AX40SISO\_Ant1\_2462\_30~1000



NTNV\_11AX40SISO\_Ant1\_2462\_1000~13000

