

# RF TEST REPORT

For

**Chengdu Hotack Technology Co., Ltd.**

**Product Name: PROJECTOR**

**Test Model(s): X5AR**

**Report Reference No.** : DACE260225001RF001

**Applicant's Name** : Chengdu Hotack Technology Co., Ltd.

**Address** : 501-502, Unit 3, Building 13, No. 666 Jinfenghuang Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan Province, China

**Testing Laboratory** : Shenzhen DACE Testing Technology Co., Ltd.

**Address** : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

**Test Specification Standard** : Article 2-1, Item 19

**Date of Receipt** : February 25, 2026

**Date of Test** : February 25, 2026 to April 3, 2026

**Date of Issue** : April 3, 2026

**Result** : Pass

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## Apply for company information

|                                       |   |                                                                                                                                                                                                                                        |
|---------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant's Name</b>               | : | Chengdu Hotack Technology Co., Ltd.                                                                                                                                                                                                    |
| <b>Address</b>                        | : | 501-502, Unit 3, Building 13, No. 666 Jinfenghuang Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan Province, China                                                                                            |
| <b>Product Name</b>                   | : | PROJECTOR                                                                                                                                                                                                                              |
| <b>Test Model(s)</b>                  | : | X5AR                                                                                                                                                                                                                                   |
| <b>Series Model(s)</b>                | : | X5, X5Pro, X5MAX, X5Plus, X5A, X5B, X5C, X5D, X5BR, X5CR, X5DR, TP500, XPH6, HT1, HT2, HT3, HT4, HT5, HT6, HT7, HT8, HT9, Gimbal A7, Gimbal N7, Gimbal A7 Go, Gimbal N7 Go, Gimbal A7 Cine, Gimbal N7 Cine, X5AD, X5Max, X5GTV, AC1069 |
| <b>Test Specification Standard(s)</b> | : | Article 2-1, Item 19                                                                                                                                                                                                                   |

### NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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April 3, 2026

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April 3, 2026

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April 3, 2026

## Revision History Of Report

| Version | Description | REPORT No.         | Issue Date    |
|---------|-------------|--------------------|---------------|
| V1.0    | Original    | DACE260225001RF001 | April 3, 2026 |
|         |             |                    |               |
|         |             |                    |               |
|         |             |                    |               |
|         |             |                    |               |

# CONTENTS

|          |                                                      |           |
|----------|------------------------------------------------------|-----------|
| <b>1</b> | <b>TEST SUMMARY .....</b>                            | <b>6</b>  |
| 1.1      | TEST STANDARDS .....                                 | 6         |
| 1.2      | SUMMARY OF TEST RESULT .....                         | 6         |
| <b>2</b> | <b>GENERAL INFORMATION .....</b>                     | <b>7</b>  |
| 2.1      | CLIENT INFORMATION .....                             | 7         |
| 2.2      | DESCRIPTION OF DEVICE (EUT) .....                    | 7         |
| 2.3      | DESCRIPTION OF TEST MODES .....                      | 7         |
| 2.4      | DESCRIPTION OF SUPPORT UNITS .....                   | 7         |
| 2.5      | CHANNEL LIST: .....                                  | 8         |
| 2.6      | TEST ENVIRONMENTAL CONDITIONS .....                  | 8         |
| 2.7      | EQUIPMENTS USED DURING THE TEST .....                | 10        |
| 2.8      | STATEMENT OF THE MEASUREMENT UNCERTAINTY .....       | 12        |
| <b>3</b> | <b>EVALUATION RESULTS (EVALUATION) .....</b>         | <b>13</b> |
| 3.1      | INTERFERENCE PREVENTION FUNCTION .....               | 13        |
| 3.1.1    | Conclusion: .....                                    | 13        |
| 3.2      | RF ACCESSIBILITY .....                               | 14        |
| 3.2.1    | Conclusion: .....                                    | 14        |
| <b>4</b> | <b>RADIO SPECTRUM MATTER TEST RESULTS (RF) .....</b> | <b>15</b> |
| 4.1      | TOLERANCE OF FREQUENCY .....                         | 15        |
| 4.1.1    | E.U.T. Operation: .....                              | 15        |
| 4.1.2    | Test Setup Diagram: .....                            | 15        |
| 4.1.3    | Test Data: .....                                     | 15        |
| 4.2      | OCCUPIED BANDWIDTH (99%) .....                       | 16        |
| 4.2.1    | E.U.T. Operation: .....                              | 16        |
| 4.2.2    | Test Setup Diagram: .....                            | 17        |
| 4.2.3    | Test Data: .....                                     | 17        |
| 4.3      | SPREAD BANDWIDTH (90%) .....                         | 18        |
| 4.3.1    | E.U.T. Operation: .....                              | 18        |
| 4.3.2    | Test Setup Diagram: .....                            | 19        |
| 4.3.3    | Test Data: .....                                     | 19        |
| 4.4      | ANTENNA POWER AND TOLERANCE .....                    | 20        |
| 4.4.1    | E.U.T. Operation: .....                              | 21        |
| 4.4.2    | Test Setup Diagram: .....                            | 21        |
| 4.4.3    | Test Data: .....                                     | 21        |
| 4.5      | SPURIOUS EMISSION INTENSITY .....                    | 22        |
| 4.5.1    | E.U.T. Operation: .....                              | 24        |
| 4.5.2    | Test Setup Diagram: .....                            | 24        |
| 4.5.3    | Test Data: .....                                     | 24        |
| 4.6      | SECONDARY RADIATED EMISSIONS .....                   | 25        |
| 4.6.1    | E.U.T. Operation: .....                              | 25        |
| 4.6.2    | Test Setup Diagram: .....                            | 26        |
| 4.6.3    | Test Data: .....                                     | 26        |
| 4.7      | DWELL TIME .....                                     | 27        |
| 4.7.1    | E.U.T. Operation: .....                              | 27        |
| 4.7.2    | Test Setup Diagram: .....                            | 27        |
| 4.7.3    | Test Data: .....                                     | 27        |

|    |                                                 |    |
|----|-------------------------------------------------|----|
| 5  | TEST SETUP PHOTOS .....                         | 28 |
| 6  | PHOTOS OF THE EUT .....                         | 29 |
| 1. | 99% OCCUPIED BANDWIDTH (HOPPING).....           | 31 |
| 2. | SPREAD BANDWIDTH (HOPPING).....                 | 36 |
| 3. | ANTENA POWER (HOPPING) .....                    | 41 |
| 4. | SPURIOUS EMISSIONS.....                         | 51 |
| 5. | DWELL TIME .....                                | 65 |
| 6. | FREQUENCY TOLERANCE .....                       | 70 |
| 7. | SECONDARY EMISSION OF RADIO WAVE (HOPPING)..... | 85 |
| 8. | SECONDARY EMISSION OF RADIO WAVE .....          | 90 |

# 1 TEST SUMMARY

## 1.1 Test Standards

The tests were performed according to following standards:

**Article 2-1, Item 19** : 2.4GHz for SRD/BT/WIFI

## 1.2 Summary of Test Result

| Item                             | Standard             | Method                          | Requirement                   | Result |
|----------------------------------|----------------------|---------------------------------|-------------------------------|--------|
| Tolerance of Frequency           | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Occupied Bandwidth (99%)         | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Spread Bandwidth (90%)           | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Antenna Power and Tolerance      | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Spurious Emission Intensity      | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Secondary Radiated Emissions     | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Dwell Time                       | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| Interference Prevention Function | Article 2-1, Item 19 | Notification No.88 of MIC, 2004 | Article 2-1, Item 19          | Pass   |
| RF Accessibility                 | Article 2-1, Item 19 | /                               | Article 49-20, paragraph 1(a) | Pass   |

## 2 GENERAL INFORMATION

### 2.1 Client Information

**Applicant's Name** : Chengdu Hotack Technology Co., Ltd.  
**Address** : 501-502, Unit 3, Building 13, No. 666 Jinfenghuang Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan Province, China

**Manufacturer** : Chengdu Hotack Technology Co., Ltd.  
**Address** : 501-502, Unit 3, Building 13, No. 666 Jinfenghuang Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan Province, China

### 2.2 Description of Device (EUT)

|                       |                                                                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | PROJECTOR                                                                                                                                                                                                                              |
| Model/Type reference: | X5AR                                                                                                                                                                                                                                   |
| Series Model:         | X5, X5Pro, X5MAX, X5Plus, X5A, X5B, X5C, X5D, X5BR, X5CR, X5DR, TP500, XPH6, HT1, HT2, HT3, HT4, HT5, HT6, HT7, HT8, HT9, Gimbal A7, Gimbal N7, Gimbal A7 Go, Gimbal N7 Go, Gimbal A7 Cine, Gimbal N7 Cine, X5AD, X5Max, X5GTV, AC1069 |
| Model Difference:     | All the model are the same circuit and RF module, only the model name and appearance color are different. Test sample model: X5AR                                                                                                      |
| Trade Mark:           | N/A                                                                                                                                                                                                                                    |
| Power Supply:         | 100-240V~, 50/60Hz, 2.5A                                                                                                                                                                                                               |
| Operation Frequency:  | 2402-2480MHz                                                                                                                                                                                                                           |
| Number of Channels:   | 79CH                                                                                                                                                                                                                                   |
| Modulation Type:      | GFSK, Pi/4-DQPSK, 8DPSK                                                                                                                                                                                                                |
| Antenna Type:         | FPC Antenna                                                                                                                                                                                                                            |
| Antenna Gain:         | 4.76dBi                                                                                                                                                                                                                                |
| Bluetooth Version:    | V5.4                                                                                                                                                                                                                                   |
| Hardware Version:     | LCD H726 68156A                                                                                                                                                                                                                        |
| Software Version:     | Android 14                                                                                                                                                                                                                             |

### 2.3 Description of Test Modes

| No               | Title   | Description                   |
|------------------|---------|-------------------------------|
| TM1              | TX mode | Keep EUT in transmitting mode |
| TM2              | RX mode | Keep EUT in receiving mode    |
| Test Environment |         | Normal Voltage(AC): 100V      |

### 2.4 Description of Support Units

The EUT was tested as an independent device.

## 2.5 Channel list:

| CH | Frequency (MHz) | CH | Frequency (MHz) | CH | Frequency (MHz) | CH | Frequency (MHz) |
|----|-----------------|----|-----------------|----|-----------------|----|-----------------|
| 0  | 2402            | 1  | 2403            | 2  | 2404            | 3  | 2405            |
| 4  | 2406            | 5  | 2407            | 6  | 2408            | 7  | 2409            |
| 8  | 2410            | 9  | 2411            | 10 | 2412            | 11 | 2413            |
| 12 | 2414            | 13 | 2415            | 14 | 2416            | 15 | 2417            |
| 16 | 2418            | 17 | 2419            | 18 | 2420            | 19 | 2421            |
| 20 | 2422            | 21 | 2423            | 22 | 2424            | 23 | 2425            |
| 24 | 2426            | 25 | 2427            | 26 | 2428            | 27 | 2429            |
| 28 | 2430            | 29 | 2431            | 30 | 2432            | 31 | 2433            |
| 32 | 2434            | 33 | 2435            | 34 | 2436            | 35 | 2437            |
| 36 | 2438            | 37 | 2439            | 38 | 2440            | 39 | 2441            |
| 40 | 2442            | 41 | 2443            | 42 | 2444            | 43 | 2445            |
| 44 | 2446            | 45 | 2447            | 46 | 2448            | 47 | 2449            |
| 48 | 2450            | 49 | 2451            | 50 | 2452            | 51 | 2453            |
| 52 | 2454            | 53 | 2455            | 54 | 2456            | 55 | 2457            |
| 56 | 2458            | 57 | 2459            | 58 | 2460            | 59 | 2461            |
| 60 | 2462            | 61 | 2463            | 62 | 2464            | 63 | 2465            |
| 64 | 2466            | 65 | 2467            | 66 | 2468            | 67 | 2469            |
| 68 | 2470            | 69 | 2471            | 70 | 2472            | 71 | 2473            |
| 72 | 2474            | 73 | 2475            | 74 | 2476            | 75 | 2477            |
| 76 | 2478            | 77 | 2479            | 78 | 2480            | /  | /               |

The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel    | Frequency (MHz)               |
|-----------------|-------------------------------|
|                 | GFSK, ( $\pi/4$ )DQPSK, 8DPSK |
| Lowest channel  | 2402MHz                       |
| Middle channel  | 2441MHz                       |
| Highest channel | 2480MHz                       |

## 2.6 Test Environmental conditions

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

|             |                     |          |
|-------------|---------------------|----------|
| Temperature | Normal Temperature: | 25°C     |
| Voltage     | Normal Voltage      | AC: 100V |
|             | Low Voltage         | AC: 90V  |
|             | High Voltage        | AC: 110V |
| Other       | Relative Humidity   | 54 %     |
|             | Air Pressure        | 101 kPa  |

When the external power supply voltage is normal Voltage/ low Voltage/ high Voltage, in the RF circuit, monitor the WIFI chip power supply voltage, the voltage is as follows:

| External power supply | module input power | RF chip voltage | Tolerance (%) |
|-----------------------|--------------------|-----------------|---------------|
| AC: 100V              | DC 3.3V            | DC 3.3V         | 0             |
| AC: 90V               | DC 3.3V            | DC 3.3V         | 0             |
| AC: 110V              | DC 3.3V            | DC 3.3V         | 0             |

Note: The power supply supplies the voltage rating and the voltage rating  $\pm 10\%$ . However, when it can be confirmed that the change of the input voltage to the wireless part circuit of the testing machine is  $\pm 1\%$  or less when the input voltage to the testing machine from the external source changes at  $\pm 10\%$ , examines it only by the voltage rating.

## 2.7 Equipments Used During The Test

Occupied Bandwidth (99%)  
Spread Bandwidth (90%)  
Antenna Power and Tolerance  
Spurious Emission Intensity  
Secondary Radiated Emissions  
Dwell Time  
Tolerance of Frequency

| Equipment                           | Manufacturer                                       | Model No | Inventory No | Cal Date   | Cal Due Date |
|-------------------------------------|----------------------------------------------------|----------|--------------|------------|--------------|
| RF Test Software                    | Tachoy Information Technology(she n zhen) Co.,Ltd. | RTS-01   | V1.0.0       | /          | /            |
| RF Sensor Unit                      | Tachoy Information Technology(she n zhen) Co.,Ltd. | TR1029-2 | 000001       | /          | /            |
| Wideband radio communication tester | R&S                                                | CMW500   | 113410       | 2025-04-25 | 2026-04-24   |
| Vector Signal Generator             | Keysight                                           | N5181A   | MY50143455   | 2025-12-02 | 2026-12-01   |
| Signal Generator                    | Keysight                                           | N5182A   | MY48180415   | 2025-12-02 | 2026-12-01   |
| Spectrum Analyzer                   | Keysight                                           | N9020A   | MY53420323   | 2025-12-02 | 2026-12-01   |

| Antenna Gain<br>Antenna Beamwidth   |                |                  |                        |            |              |
|-------------------------------------|----------------|------------------|------------------------|------------|--------------|
| Equipment                           | Manufacturer   | Model No         | Inventory No           | Cal Date   | Cal Due Date |
| EMI Test software                   | Farad          | EZ -EMC          | V1.1.42                | /          | /            |
| Positioning Controller              | MF             | MF-7802          | /                      | /          | /            |
| Amplifier(18-40G)                   | COM-POWER      | AH-1840          | 10100008-1             | 2024-04-26 | 2027-04-25   |
| Horn antenna                        | COM-POWER      | AH-1840 (18-40G) | 10100008               | 2024-04-26 | 2027-04-25   |
| Loop antenna                        | ZHINAN         | ZN30900C         | ZN30900C               | 2025-04-28 | 2026-04-27   |
| Cable(LF)#2                         | Schwarzbeck    | /                | /                      | 2025-04-12 | 2026-04-11   |
| Cable(LF)#1                         | Schwarzbeck    | /                | /                      | 2025-04-17 | 2026-04-16   |
| Cable(HF)#2                         | Schwarzbeck    | AK9515E          | 96250                  | 2025-04-25 | 2026-04-24   |
| Cable(HF)#1                         | Schwarzbeck    | SYV-50-3-1       | /                      | 2025-04-25 | 2026-04-24   |
| Power amplifier(LF)                 | Schwarzbeck    | BBV9743          | 9743-151               | 2025-04-29 | 2026-04-28   |
| Power amplifier(HF)                 | Schwarzbeck    | BBV9718          | 9718-282               | 2025-04-29 | 2026-04-28   |
| Wideband radio communication tester | R&S            | CMW500           | 113410                 | 2025-04-25 | 2026-04-24   |
| Spectrum Analyzer                   | R&S            | FSP30            | 1321.3008K40-101729-JR | 2025-04-18 | 2026-04-17   |
| Test Receiver                       | R&S            | ESCI 3           | 1166.5950K03-101431-Jq | 2025-04-18 | 2026-04-17   |
| Horn Antenna                        | Sunol Sciences | DRH-118          | A091114                | 2025-04-21 | 2026-04-20   |
| Broadband Antenna                   | Sunol Sciences | JB6 Antenna      | A090414                | 2024-09-28 | 2026-09-27   |

## 2.8 Statement Of The Measurement Uncertainty

| Test Item                                                                                                                                         | Measurement Uncertainty |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Radio Frequency                                                                                                                                   | $\pm 2 \times 10^{-7}$  |
| Occupied Bandwidth                                                                                                                                | $\pm 3.63\%$            |
| RF conducted power                                                                                                                                | $\pm 0.733\text{dB}$    |
| Duty cycle                                                                                                                                        | $\pm 3.1\%$             |
| Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                         |

### 3 Evaluation Results (Evaluation)

#### 3.1 Interference Prevention Function

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

##### 3.1.1 Conclusion:

The detected ID of the device is below:  
60-47-2B-C5-E1-A5

Test result: The device meet the requirements  
PASS

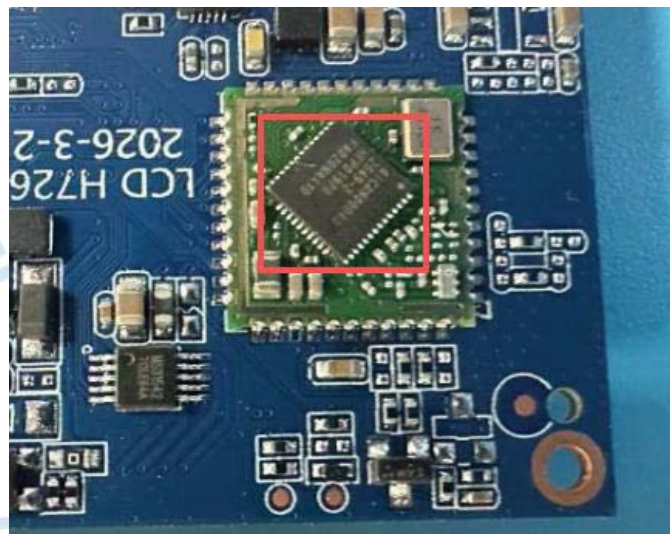
## 3.2 RF Accessibility

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

### 3.2.1 Conclusion:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Tamper proof declaration:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Sealed with special screws.</li> <li><input type="checkbox"/> Plastic chassis is being welded using ultrasonic waves.</li> <li><input type="checkbox"/> Chassis is glued using a special adhesive</li> <li><input type="checkbox"/> Metal covers are spot-fused.</li> <li><input type="checkbox"/> Cover is specially interlocked.</li> <li><input checked="" type="checkbox"/> RF and modulation components are covered with shielding case and this shielding case is soldered.</li> <li><input type="checkbox"/> Shielded case is welded at RF and modulation parts, and ID-ROM is welded using the BGA method.</li> <li><input type="checkbox"/> Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.</li> <li><input type="checkbox"/> Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.</li> <li><input type="checkbox"/> RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable parts on PCB or adjustable parts are not exposed.</li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

The red circle is welding point.



## 4 Radio Spectrum Matter Test Results (RF)

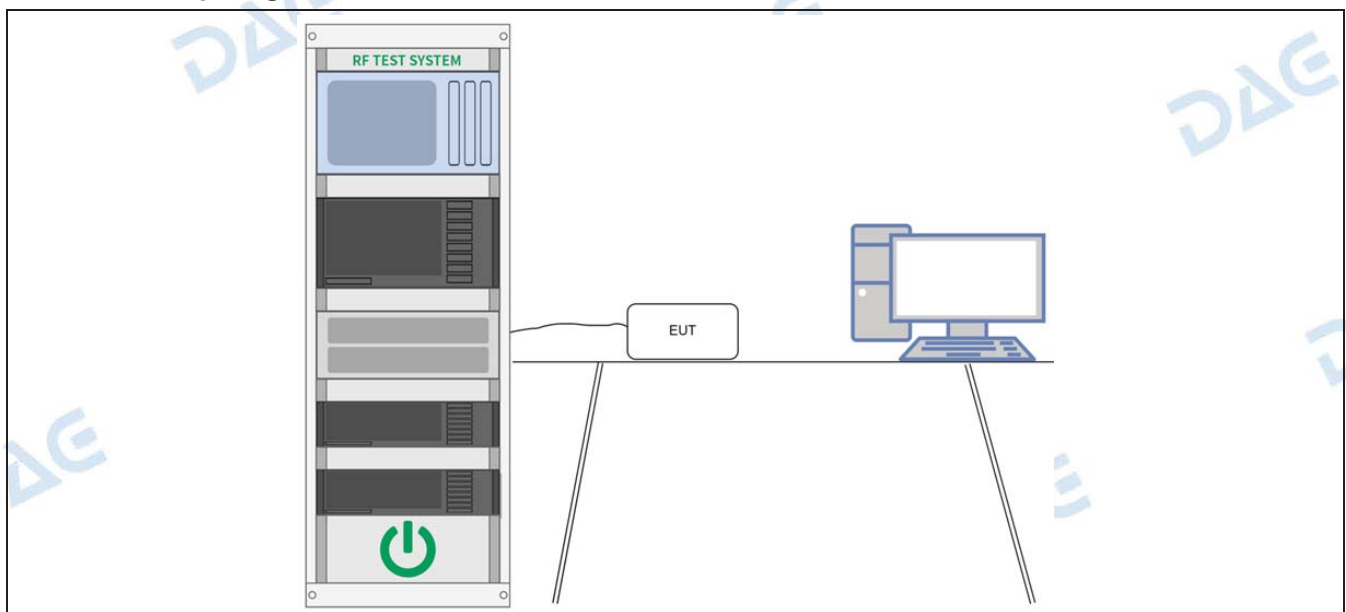
### 4.1 Tolerance of Frequency

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Article 2-1, Item 19            |                 |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ±50ppm or less.                 |                 |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Notification No.88 of MIC, 2004 |                 |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Center frequency:               | Test frequency  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Span:                           | 1 MHz           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | RBW:                            | 10 kHz          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VBW:                            | 10 kHz          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sweep data points:              | 1001 or greater |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sweep time:                     | Auto            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Detector mode:                  | Positive peak   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Indication mode:                | Max hold        |
| (1) Find the peak carrier signal and measure its frequency<br>(2) For multiple antenna systems each antenna shall be measured<br>(3) For an EUT with multiple antennas it is permissible to test a single antenna only, provided all the antenna measurement values are expected to be same for either of the following reasons:<br>a) The frequency of all antenna transmissions are phase-synchronized to a common (fundamental) oscillator<br>b) The antenna transmissions share a common clock signal |                                 |                 |

#### 4.1.1 E.U.T. Operation:

|                        |       |           |      |                       |           |
|------------------------|-------|-----------|------|-----------------------|-----------|
| Operating Environment: |       |           |      |                       |           |
| Temperature:           | 22 °C | Humidity: | 49 % | Atmospheric Pressure: | 101.4 kPa |
| Pretest mode:          | TM1   |           |      |                       |           |
| Final test mode:       | TM1   |           |      |                       |           |

#### 4.1.2 Test Setup Diagram:



#### 4.1.3 Test Data:

Please Refer to Appendix for Details.

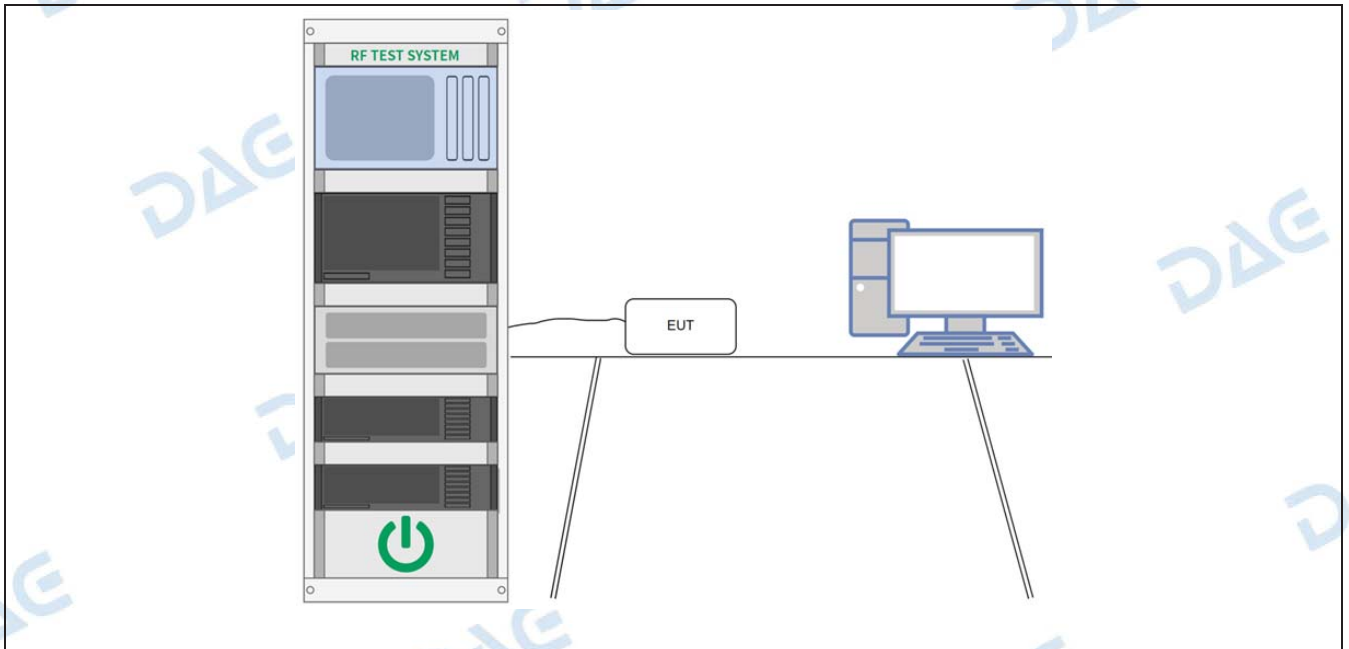
## 4.2 Occupied Bandwidth (99%)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|-------|--------------------------------------|------|-------------------------------------|------|-------------|-------------|------|--------------------|-----------------|----------------|---------------|------------------|----------|-------------|-----|
| Test Requirement:  | Article 2-1, Item 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Test Limit:        | For FHSS or FHSS and other modulation Hybrid: 83.5 MHz or less:<br>The measured bandwidth at the low and high channels shall meet the following requirements:<br>- The lowest frequency of the measured bandwidth shall not be less than 2400 MHz<br>- The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz<br>[Occupied Bandwidth]<br>83.5 MHz or less                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Test Method:       | Notification No.88 of MIC, 2004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Procedure:         | <table border="1"> <tr> <td>Center Frequency:</td><td>Test frequency</td></tr> <tr> <td>Span:</td><td>2 - 3.5 times the technical standard</td></tr> <tr> <td>RBW:</td><td>Within 3% of the technical standard</td></tr> <tr> <td>VBW:</td><td>Same as RBW</td></tr> <tr> <td>Sweep time:</td><td>Auto</td></tr> <tr> <td>Sweep data points:</td><td>1001 or greater</td></tr> <tr> <td>Detector mode:</td><td>Positive peak</td></tr> <tr> <td>Indication mode:</td><td>Max hold</td></tr> <tr> <td>BW setting:</td><td>99%</td></tr> </table> <p>(1) Measure the signal bandwidth using a spectrum analyzer</p> <p>(2) For multiple antenna systems:</p> <p>a) Each antenna shall be individually measured</p> <p>b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:</p> <p style="text-align: center;">System with four Antennas</p> | Center Frequency: | Test frequency | Span: | 2 - 3.5 times the technical standard | RBW: | Within 3% of the technical standard | VBW: | Same as RBW | Sweep time: | Auto | Sweep data points: | 1001 or greater | Detector mode: | Positive peak | Indication mode: | Max hold | BW setting: | 99% |
| Center Frequency:  | Test frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Span:              | 2 - 3.5 times the technical standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| RBW:               | Within 3% of the technical standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| VBW:               | Same as RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Sweep time:        | Auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Sweep data points: | 1001 or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Detector mode:     | Positive peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Indication mode:   | Max hold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| BW setting:        | 99%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |

### 4.2.1 E.U.T. Operation:

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 22.1 °C | Humidity: | 46 % | Atmospheric Pressure: | 101.4 kPa |
| Pretest mode:          | TM1     |           |      |                       |           |
| Final test mode:       | TM1     |           |      |                       |           |

#### 4.2.2 Test Setup Diagram:



#### 4.2.3 Test Data:

Please Refer to Appendix for Details.

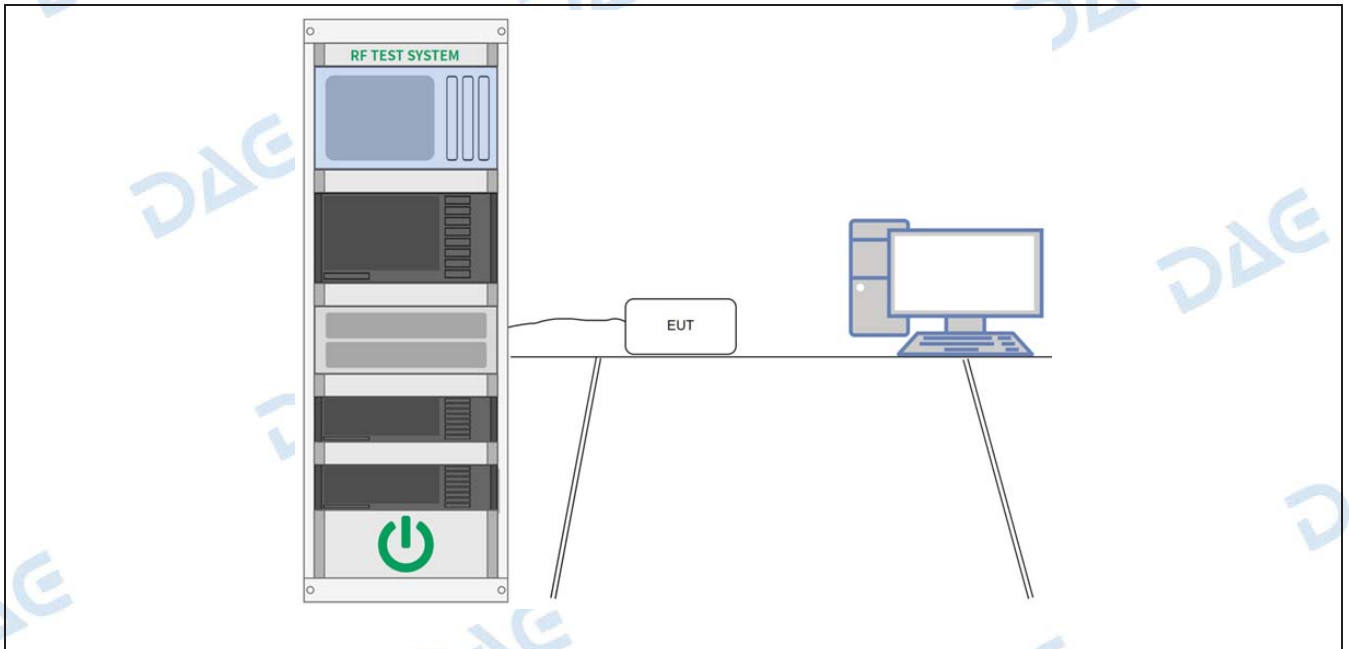
### 4.3 Spread Bandwidth (90%)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|-------|--------------------------------------|------|-------------------------------------|------|-------------|-------------|------|--------------------|-----------------|----------------|---------------|------------------|----------|-------------|-----|
| Test Requirement:  | Article 2-1, Item 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Test Limit:        | Only for report use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Test Method:       | Notification No.88 of MIC, 2004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Procedure:         | <table border="1"> <tr> <td>Center Frequency:</td><td>Test frequency</td></tr> <tr> <td>Span:</td><td>2 - 3.5 times the technical standard</td></tr> <tr> <td>RBW:</td><td>Within 3% of the technical standard</td></tr> <tr> <td>VBW:</td><td>Same as RBW</td></tr> <tr> <td>Sweep time:</td><td>Auto</td></tr> <tr> <td>Sweep data points:</td><td>1001 or greater</td></tr> <tr> <td>Detector mode:</td><td>Positive peak</td></tr> <tr> <td>Indication mode:</td><td>Max hold</td></tr> <tr> <td>BW setting:</td><td>90%</td></tr> </table> <p>(1) Measure the signal bandwidth using a spectrum analyzer<br/> (2) For multiple antenna systems:<br/> a) Each antenna shall be individually measured<br/> b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:</p> <p style="text-align: center;">System with four Antennas</p> | Center Frequency: | Test frequency | Span: | 2 - 3.5 times the technical standard | RBW: | Within 3% of the technical standard | VBW: | Same as RBW | Sweep time: | Auto | Sweep data points: | 1001 or greater | Detector mode: | Positive peak | Indication mode: | Max hold | BW setting: | 90% |
| Center Frequency:  | Test frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Span:              | 2 - 3.5 times the technical standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| RBW:               | Within 3% of the technical standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| VBW:               | Same as RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Sweep time:        | Auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Sweep data points: | 1001 or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Detector mode:     | Positive peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| Indication mode:   | Max hold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |
| BW setting:        | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                |       |                                      |      |                                     |      |             |             |      |                    |                 |                |               |                  |          |             |     |

#### 4.3.1 E.U.T. Operation:

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 22.6 °C | Humidity: | 47 % | Atmospheric Pressure: | 101.4 kPa |
| Pretest mode:          | TM1     |           |      |                       |           |
| Final test mode:       | TM1     |           |      |                       |           |

#### 4.3.2 Test Setup Diagram:



#### 4.3.3 Test Data:

Please Refer to Appendix for Details.

#### 4.4 Antenna Power and Tolerance

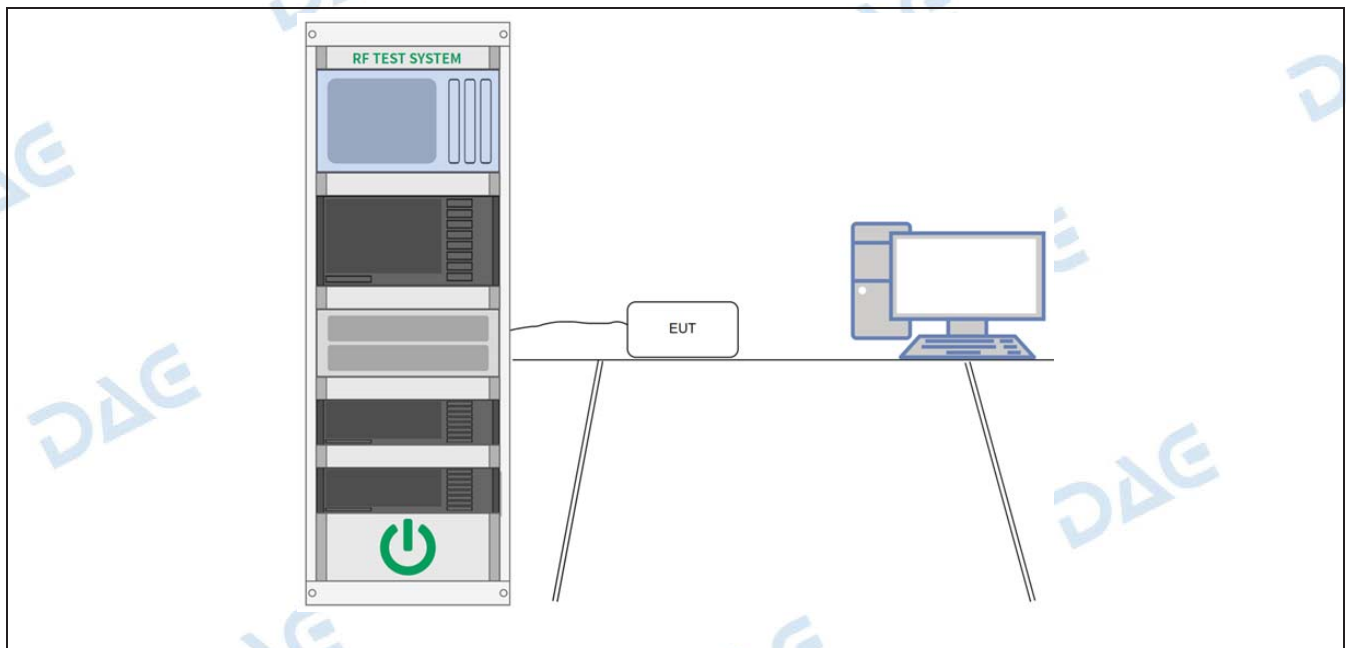
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|-------------------|----------------|-------|--------------------------------------------|------|------|------|-----------------------------------|-------------|------|--------------------|-----------------|----------------|---------------|------------------|----------|--|--|-------------------------------------------------------------------------|--|------------|-------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------|----------------|--------|--------|--------------------------------------------------------|--|------------------------------------------------------------------------------------------------|--------------------|-----------------|--|--|------------------------------------------------------------------------------------|--|------------|-------------------------------------------------|-------|------|------|------------------------------------------------------------|------|------------------------------------------------------------|----------------|--------|--------|--------------------------------------------------------|--|------------------------------------------------------------------------------------------------|------------|-----------------|
| Test Requirement:                                                                  | Article 2-1, Item 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Test Limit:                                                                        | Antenna Power:<br>3 mW/MHz or less<br>Tolerance: +20% or less<br><br>EIRP: 16.91dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Test Method:                                                                       | Notification No.88 of MIC, 2004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Procedure:                                                                         | <table><tr><td colspan="2">[Setting 1] – Search for peak power frequency</td></tr><tr><td>Center Frequency:</td><td>Test frequency</td></tr><tr><td>Span:</td><td>Approximately twice the occupied bandwidth</td></tr><tr><td>RBW:</td><td>1MHz</td></tr><tr><td>VBW:</td><td>Approximately three times the RBW</td></tr><tr><td>Sweep time:</td><td>Auto</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr><tr><td>Detector mode:</td><td>Positive peak</td></tr><tr><td>Indication mode:</td><td>Max hold</td></tr><tr><td></td><td></td></tr><tr><td colspan="2">[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM</td></tr><tr><td>Frequency:</td><td>Frequency of peak power found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>3 MHz (FHSS-Channel Spacing ≤ 1MHz)<br/>1MHz (DSSS, OFDM, FHSS-Channel Spacing &gt; 1MHz)</td></tr><tr><td>Detector mode:</td><td>Sample</td></tr><tr><td>Sweep:</td><td>Minimum time required to make an accurate measurement.</td></tr><tr><td></td><td>For burst type (intermittent) transmission sweep time shall be greater than one burst interval</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr><tr><td></td><td></td></tr><tr><td colspan="2">[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM</td></tr><tr><td>Frequency:</td><td>Frequency of peak power found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>Bandwidth sufficient to cover that occupied by the carrier</td></tr><tr><td>VBW:</td><td>Bandwidth sufficient to cover that occupied by the carrier</td></tr><tr><td>Detector mode:</td><td>Sample</td></tr><tr><td>Sweep:</td><td>Minimum time required to make an accurate measurement.</td></tr><tr><td></td><td>For burst type (intermittent) transmission sweep time shall be greater than one burst interval</td></tr><tr><td>Sweep data</td><td>1001 or greater</td></tr></table> |  | [Setting 1] – Search for peak power frequency |  | Center Frequency: | Test frequency | Span: | Approximately twice the occupied bandwidth | RBW: | 1MHz | VBW: | Approximately three times the RBW | Sweep time: | Auto | Sweep data points: | 1001 or greater | Detector mode: | Positive peak | Indication mode: | Max hold |  |  | [Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM |  | Frequency: | Frequency of peak power found using [Setting 1] | Span: | 0 Hz | RBW: | 3 MHz (FHSS-Channel Spacing ≤ 1MHz)<br>1MHz (DSSS, OFDM, FHSS-Channel Spacing > 1MHz) | Detector mode: | Sample | Sweep: | Minimum time required to make an accurate measurement. |  | For burst type (intermittent) transmission sweep time shall be greater than one burst interval | Sweep data points: | 1001 or greater |  |  | [Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM |  | Frequency: | Frequency of peak power found using [Setting 1] | Span: | 0 Hz | RBW: | Bandwidth sufficient to cover that occupied by the carrier | VBW: | Bandwidth sufficient to cover that occupied by the carrier | Detector mode: | Sample | Sweep: | Minimum time required to make an accurate measurement. |  | For burst type (intermittent) transmission sweep time shall be greater than one burst interval | Sweep data | 1001 or greater |
| [Setting 1] – Search for peak power frequency                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Center Frequency:                                                                  | Test frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Span:                                                                              | Approximately twice the occupied bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| RBW:                                                                               | 1MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| VBW:                                                                               | Approximately three times the RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Sweep time:                                                                        | Auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Sweep data points:                                                                 | 1001 or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Detector mode:                                                                     | Positive peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Indication mode:                                                                   | Max hold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| [Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Frequency:                                                                         | Frequency of peak power found using [Setting 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Span:                                                                              | 0 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| RBW:                                                                               | 3 MHz (FHSS-Channel Spacing ≤ 1MHz)<br>1MHz (DSSS, OFDM, FHSS-Channel Spacing > 1MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Detector mode:                                                                     | Sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Sweep:                                                                             | Minimum time required to make an accurate measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
|                                                                                    | For burst type (intermittent) transmission sweep time shall be greater than one burst interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Sweep data points:                                                                 | 1001 or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| [Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Frequency:                                                                         | Frequency of peak power found using [Setting 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Span:                                                                              | 0 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| RBW:                                                                               | Bandwidth sufficient to cover that occupied by the carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| VBW:                                                                               | Bandwidth sufficient to cover that occupied by the carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Detector mode:                                                                     | Sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Sweep:                                                                             | Minimum time required to make an accurate measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
|                                                                                    | For burst type (intermittent) transmission sweep time shall be greater than one burst interval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |
| Sweep data                                                                         | 1001 or greater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                   |                |       |                                            |      |      |      |                                   |             |      |                    |                 |                |               |                  |          |  |  |                                                                         |  |            |                                                 |       |      |      |                                                                                       |                |        |        |                                                        |  |                                                                                                |                    |                 |  |  |                                                                                    |  |            |                                                 |       |      |      |                                                            |      |                                                            |                |        |        |                                                        |  |                                                                                                |            |                 |

|  |                                                                                                                                                                                                                                                                                         |  |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | points:                                                                                                                                                                                                                                                                                 |  |
|  | (1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power<br>(2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1)<br>Antenna Power (W/MHz) = Average Burst Power |  |

#### 4.4.1 E.U.T. Operation:

|                        |       |           |      |                       |           |
|------------------------|-------|-----------|------|-----------------------|-----------|
| Operating Environment: |       |           |      |                       |           |
| Temperature:           | 23 °C | Humidity: | 49 % | Atmospheric Pressure: | 101.4 kPa |
| Pretest mode:          | TM1   |           |      |                       |           |
| Final test mode:       | TM1   |           |      |                       |           |

#### 4.4.2 Test Setup Diagram:



#### 4.4.3 Test Data:

Please Refer to Appendix for Details.

#### 4.5 Spurious Emission Intensity

|                   |                                                                                                                                                                                                                                             |                                                                                                                                                                                                        |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Article 2-1, Item 19                                                                                                                                                                                                                        |                                                                                                                                                                                                        |
| Test Limit:       | (1) Below 2387 MHz: 2.5 $\mu$ W (-26 dBm)/MHz or less<br>(2) 2387 to 2400 MHz: 25.0 $\mu$ W (-16 dBm)/MHz or less<br>(3) 2483.5 to 2496.5 MHz: 25.0 $\mu$ W (-16 dBm)/MHz or less<br>(4) Over 2496.5 MHz: 2.5 $\mu$ W (-26 dBm)/MHz or less |                                                                                                                                                                                                        |
| Test Method:      | Notification No.88 of MIC, 2004                                                                                                                                                                                                             |                                                                                                                                                                                                        |
| Procedure:        | [Setting 1]                                                                                                                                                                                                                                 |                                                                                                                                                                                                        |
|                   | Frequency range:                                                                                                                                                                                                                            | (see Note 1)                                                                                                                                                                                           |
|                   | RBW:                                                                                                                                                                                                                                        | 1 MHz                                                                                                                                                                                                  |
|                   | VBW:                                                                                                                                                                                                                                        | 1 MHz                                                                                                                                                                                                  |
|                   | Sweep time:                                                                                                                                                                                                                                 | Minimum time required to make an accurate measurement                                                                                                                                                  |
|                   | Sweep Data Points:                                                                                                                                                                                                                          | 1001 or greater                                                                                                                                                                                        |
|                   | Detector mode:                                                                                                                                                                                                                              | Positive peak                                                                                                                                                                                          |
|                   | Indication mode:                                                                                                                                                                                                                            | Max hold (see Note 2)                                                                                                                                                                                  |
|                   | Note 1:                                                                                                                                                                                                                                     | Measurement range shall be 30 MHz to 12.5 GHz, except for the following cases:<br>-FHSS, FHSS+DSSS, FHSS+OFDM:2374 MHz to 2509.5 MHz<br>-Other than FHSS, FHSS+DSSS, FHSS+OFDM: 2400 MHz to 2483.5 MHz |
|                   | Note 2:                                                                                                                                                                                                                                     | Sweep shall be repeated until the max hold waveform is stable.                                                                                                                                         |
|                   |                                                                                                                                                                                                                                             |                                                                                                                                                                                                        |
|                   | [Setting 2]                                                                                                                                                                                                                                 |                                                                                                                                                                                                        |
|                   | Center frequency:                                                                                                                                                                                                                           | Frequency of spurious emission found using [Setting 1]                                                                                                                                                 |
|                   | Span:                                                                                                                                                                                                                                       | 0 Hz                                                                                                                                                                                                   |
|                   | RBW:                                                                                                                                                                                                                                        | 1 MHz                                                                                                                                                                                                  |
|                   | VBW:                                                                                                                                                                                                                                        | 1 MHz                                                                                                                                                                                                  |
|                   | Sweep time:                                                                                                                                                                                                                                 | Minimum time required to make an accurate measurement.<br>For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval                                        |
|                   | Sweep Data Points:                                                                                                                                                                                                                          | 1001 or greater                                                                                                                                                                                        |
|                   | Detector mode:                                                                                                                                                                                                                              | Sample                                                                                                                                                                                                 |
|                   | [Setting 3]                                                                                                                                                                                                                                 |                                                                                                                                                                                                        |
|                   | Frequency range:                                                                                                                                                                                                                            | 2374 MHz to 2400 MHz 2483.5 MHz to 2509.5 MHz                                                                                                                                                          |
|                   | RBW:                                                                                                                                                                                                                                        | 30 kHz                                                                                                                                                                                                 |
|                   | VBW:                                                                                                                                                                                                                                        | 30 kHz                                                                                                                                                                                                 |
|                   | Sweep time:                                                                                                                                                                                                                                 | Minimum time required to make an accurate measurement.                                                                                                                                                 |

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

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.

If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

If spurious emissions ranging from 30 MHz to 2374 MHz and from 2509.5MHz to 12.5GHz are over the limit, then the test result is Fail.

If spurious emissions ranging from 2374 MHz to 2400 MHz and from 2483.5 MHz to 2509.5 MHz are over the limit, then further detailed measurements are required, go to step (3)

(3) In the following cases, measure the spurious emissions using [Setting 3]

- Case1: FHSS, FHSS+DSSS, FHSS+OFDM

- Case2: Other than FHSS, FHSS+DSSS, FHSS+OFDM, and the spurious emissions in step (2) are over the limit

(4) Calculate the spurious emission value (Calculated Value) using following the formula below:

Calculated Value = (Measured Value using (3) + 15.2dB)

Note: 15.2dB adjustment is derived from the Conversion Factor of RBW

Conversion Factor of RBW =  $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2 \text{ [dB]}$  Where: Reference Bandwidth = 1 MHz

RBW of measurement = 30 kHz

(5) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:

Frequency: Frequency of spurious emission

Span: 1 MHz

(7) After sweep, send the span data set to the PC

(8) Convert measured data from dBm to Watts

(9) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

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

Ps: Sum (Watts)

Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)

n: Number of measurement points in the Span

k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide

RBW: Resolution Bandwidth (MHz).

(10) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)

(11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

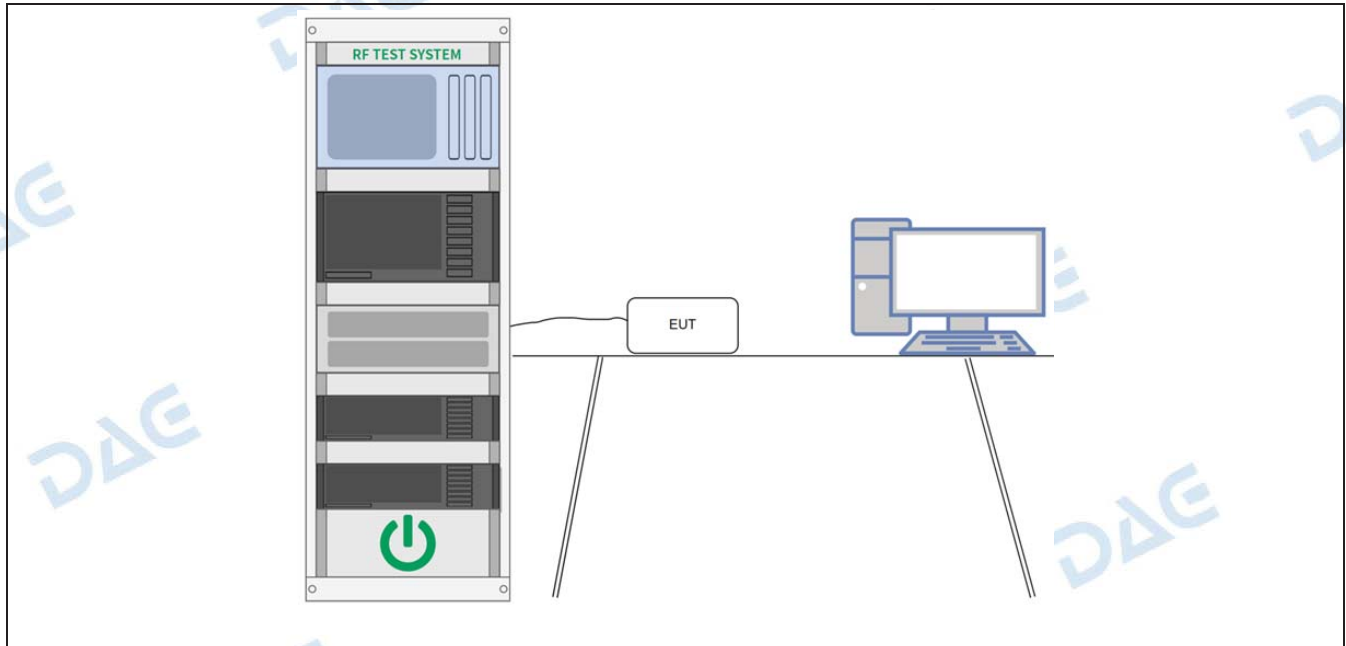
(12) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious

|  |                                                                                                                                                                                                                                                                |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | emissions)<br>(13) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard)<br>(14) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.5.1 E.U.T. Operation:

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 22.7 °C | Humidity: | 52 % | Atmospheric Pressure: | 101.4 kPa |
| Pretest mode:          | TM1     |           |      |                       |           |
| Final test mode:       | TM1     |           |      |                       |           |

#### 4.5.2 Test Setup Diagram:



#### 4.5.3 Test Data:

Please Refer to Appendix for Details.

#### 4.6 Secondary Radiated Emissions

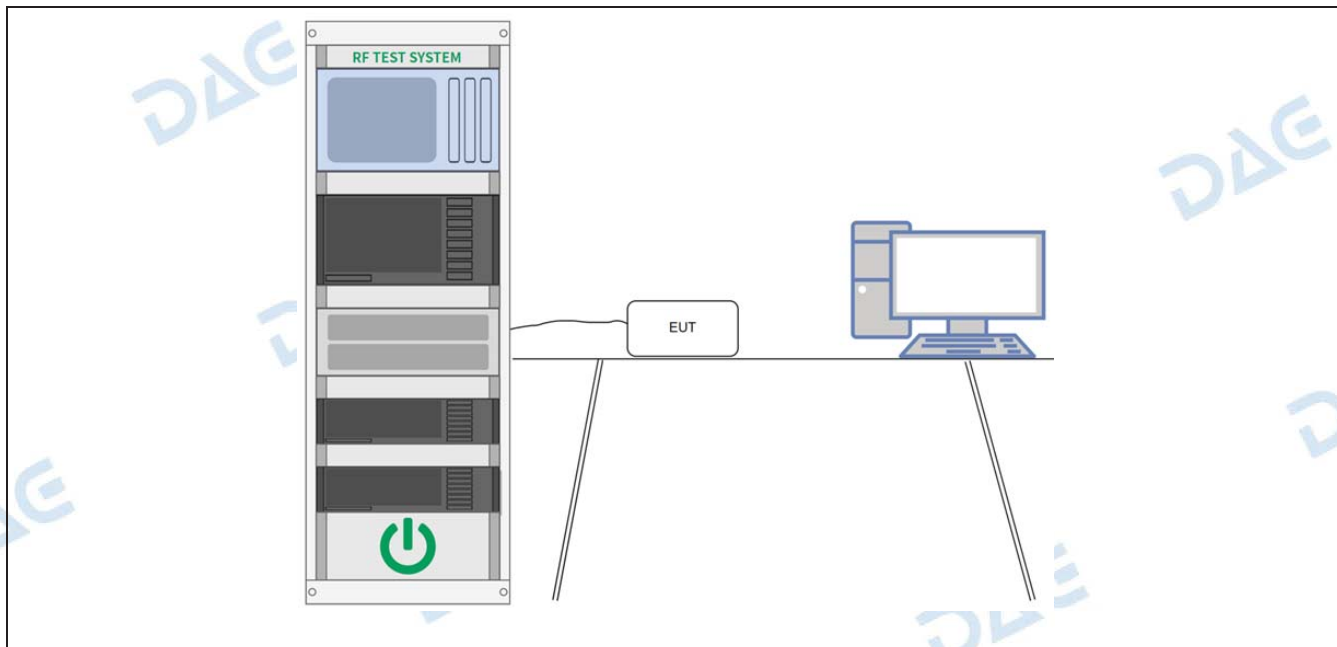
|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                     |                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Test Requirement:                                                                                                                                                   | Article 2-1, Item 19                                                                                                                                                                                                                                                                                                |                                                        |
| Test Limit:                                                                                                                                                         | (1) Below 1 GHz: 4 nW (-54dBm) or less<br>(2) Above 1 GHz: 20 nW (-47dBm) or less                                                                                                                                                                                                                                   |                                                        |
| Test Method:                                                                                                                                                        | Notification No.88 of MIC, 2004                                                                                                                                                                                                                                                                                     |                                                        |
| Procedure:                                                                                                                                                          | [Setting 1]                                                                                                                                                                                                                                                                                                         |                                                        |
|                                                                                                                                                                     | Frequency range:                                                                                                                                                                                                                                                                                                    | 30 MHz ~ 12.5 GHz                                      |
|                                                                                                                                                                     | RBW:                                                                                                                                                                                                                                                                                                                | Below 1 GHz:100 kHz                                    |
|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                     | Above 1 GHz:1 MHz                                      |
|                                                                                                                                                                     | VBW:                                                                                                                                                                                                                                                                                                                | Below 1 GHz:100 kHz                                    |
|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                     | Above 1 GHz:1 MHz                                      |
|                                                                                                                                                                     | Sweep time:                                                                                                                                                                                                                                                                                                         | Auto                                                   |
|                                                                                                                                                                     | Sweep data points:                                                                                                                                                                                                                                                                                                  | 1001 or greater                                        |
|                                                                                                                                                                     | Detector mode:                                                                                                                                                                                                                                                                                                      | Positive peak                                          |
|                                                                                                                                                                     | Indication mode:                                                                                                                                                                                                                                                                                                    | Max hold                                               |
|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                     |                                                        |
|                                                                                                                                                                     | [Setting 2]                                                                                                                                                                                                                                                                                                         |                                                        |
|                                                                                                                                                                     | Center Frequency:                                                                                                                                                                                                                                                                                                   | Frequency of spurious emission found using [Setting 1] |
|                                                                                                                                                                     | Span:                                                                                                                                                                                                                                                                                                               | 0 Hz                                                   |
|                                                                                                                                                                     | RBW:                                                                                                                                                                                                                                                                                                                | Below 1 GHz:100 kHz                                    |
|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                     | Above 1 GHz:1 MHz                                      |
|                                                                                                                                                                     | VBW:                                                                                                                                                                                                                                                                                                                | Below 1 GHz:100 kHz                                    |
|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                     | Above 1 GHz:1 MHz                                      |
|                                                                                                                                                                     | Sweep time:                                                                                                                                                                                                                                                                                                         | Auto                                                   |
|                                                                                                                                                                     | Sweep data points:                                                                                                                                                                                                                                                                                                  | 1001 or greater                                        |
|                                                                                                                                                                     | Detector mode:                                                                                                                                                                                                                                                                                                      | Sample                                                 |
|                                                                                                                                                                     | (1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. |                                                        |
|                                                                                                                                                                     | (2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3)                                                                                                                                                                    |                                                        |
|                                                                                                                                                                     | (3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.                                                                                                                                                                                                                     |                                                        |
|                                                                                                                                                                     | If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time Multiple Antenna Systems                                                                                                                                                                            |                                                        |
|                                                                                                                                                                     | If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below                                                                                                                                                                                                |                                                        |
|                                                                                                                                                                     | (4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value                                                                                                                                                                                                |                                                        |
| (5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions) |                                                                                                                                                                                                                                                                                                                     |                                                        |
| (6) Ensure that the composite spectrum does not exceed the Limit                                                                                                    |                                                                                                                                                                                                                                                                                                                     |                                                        |

##### 4.6.1 E.U.T. Operation:

|                        |         |           |      |                                 |
|------------------------|---------|-----------|------|---------------------------------|
| Operating Environment: |         |           |      |                                 |
| Temperature:           | 23.7 °C | Humidity: | 55 % | Atmospheric Pressure: 101.4 kPa |

|                  |     |
|------------------|-----|
| Pretest mode:    | TM2 |
| Final test mode: | TM2 |

#### 4.6.2 Test Setup Diagram:



#### 4.6.3 Test Data:

Please Refer to Appendix for Details.

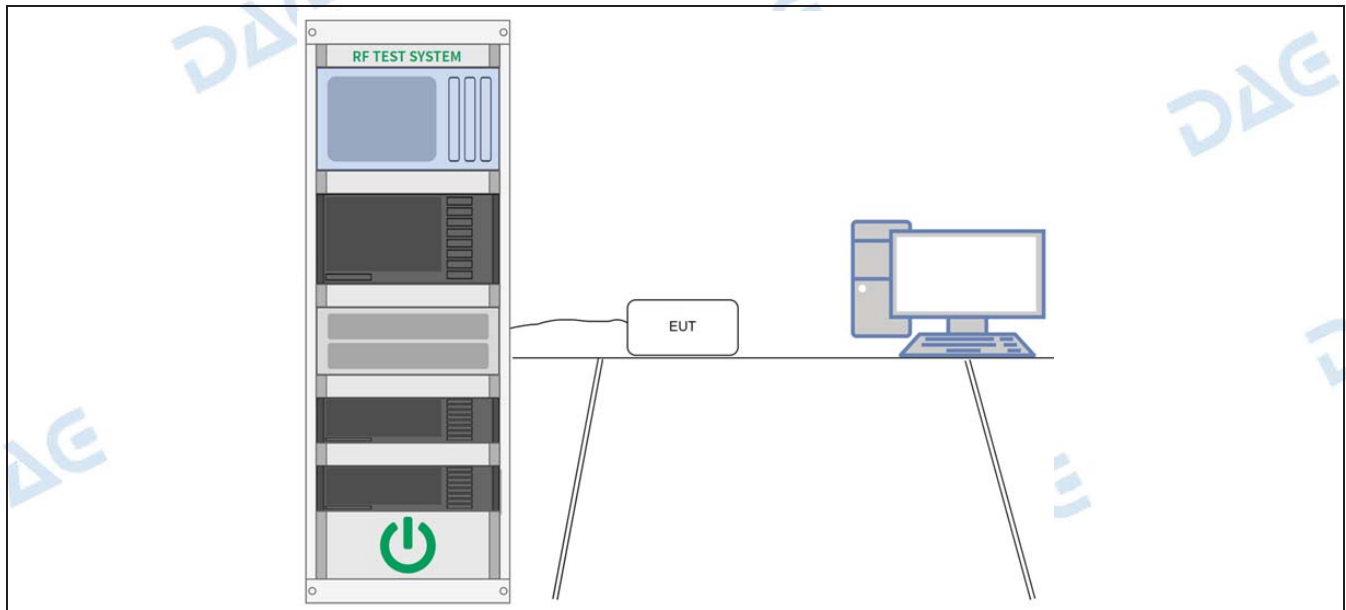
#### 4.7 Dwell Time

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Test Requirement: | Article 2-1, Item 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
| Test Limit:       | Transmit ON Time shall be less than 0.4 seconds<br>Total Dwell Time shall be less than 0.4 seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |
| Test Method:      | Notification No.88 of MIC, 2004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| Procedure:        | [Setting 1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |
|                   | Frequency:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Test frequency  |
|                   | Span:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 Hz            |
|                   | RBW:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 MHz           |
|                   | VBW:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 MHz           |
|                   | Sweep data points:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1001 or greater |
|                   | Trigger:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Video trigger   |
|                   | Detection mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Positive peak   |
|                   | <p>(1) Configure the spectrum analyzer to [Setting 1]<br/> (2) Measure the Burst Cycle and Transmit ON Time<br/> (3) Total Dwell Time shall be calculated by the following formula:<br/> Total Dwell Time = (0.4 x Spreading Rate x Transmit ON Time) / (Burst Cycle x Number of Hopping Channels) [Notes]<br/> a. Spreading Rate = Spread Bandwidth (measured value) / Transmission Rate<br/> b. Transmit ON Time and Burst Cycle are both measured in Seconds<br/> c. Numerical Coefficient (0.4) is a dimensionless number defined in the technical standard</p> |                 |

##### 4.7.1 E.U.T. Operation:

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 22.8 °C | Humidity: | 49 % | Atmospheric Pressure: | 101.4 kPa |
| Pretest mode:          | TM1     |           |      |                       |           |
| Final test mode:       | TM1     |           |      |                       |           |

##### 4.7.2 Test Setup Diagram:



##### 4.7.3 Test Data:

Please Refer to Appendix for Details.

## 5 TEST SETUP PHOTOS



## 6 PHOTOS OF THE EUT

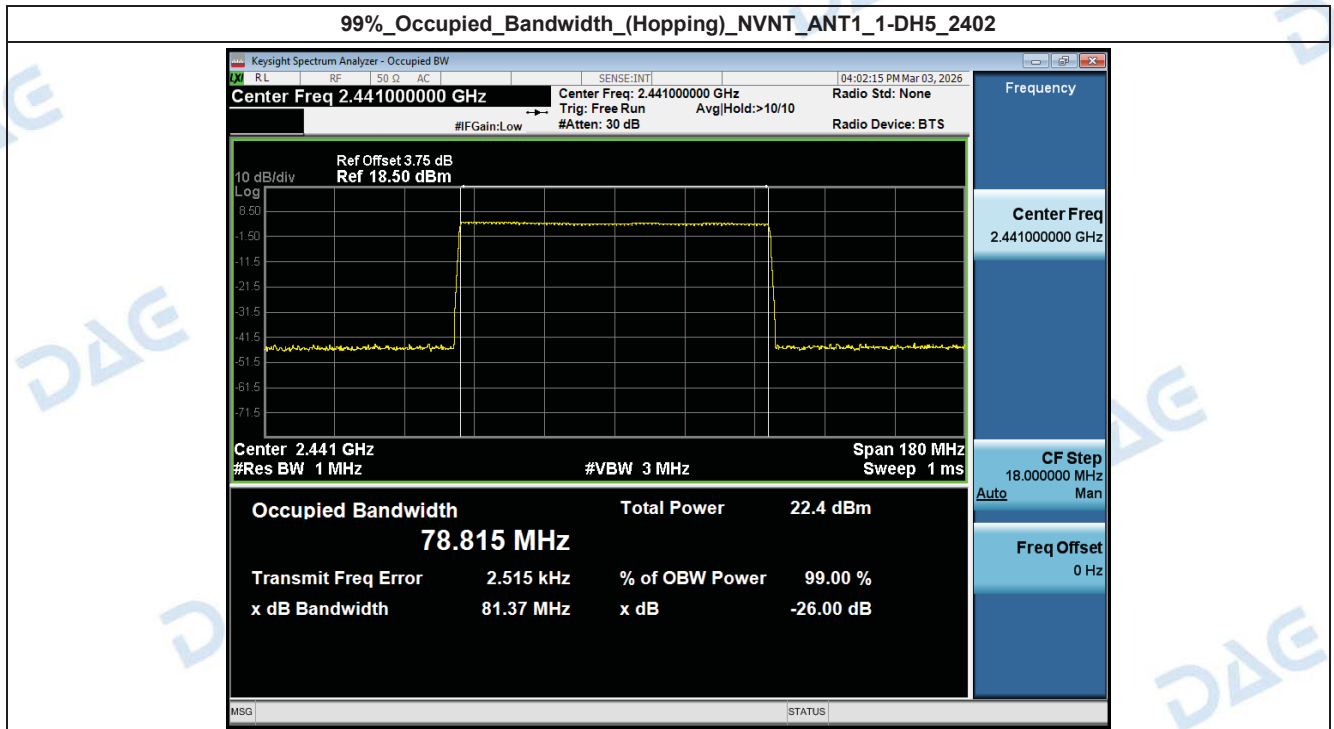
Refer to Appendix - EUT Photos for EUT External Photo and Internal Photo.

# Appendix

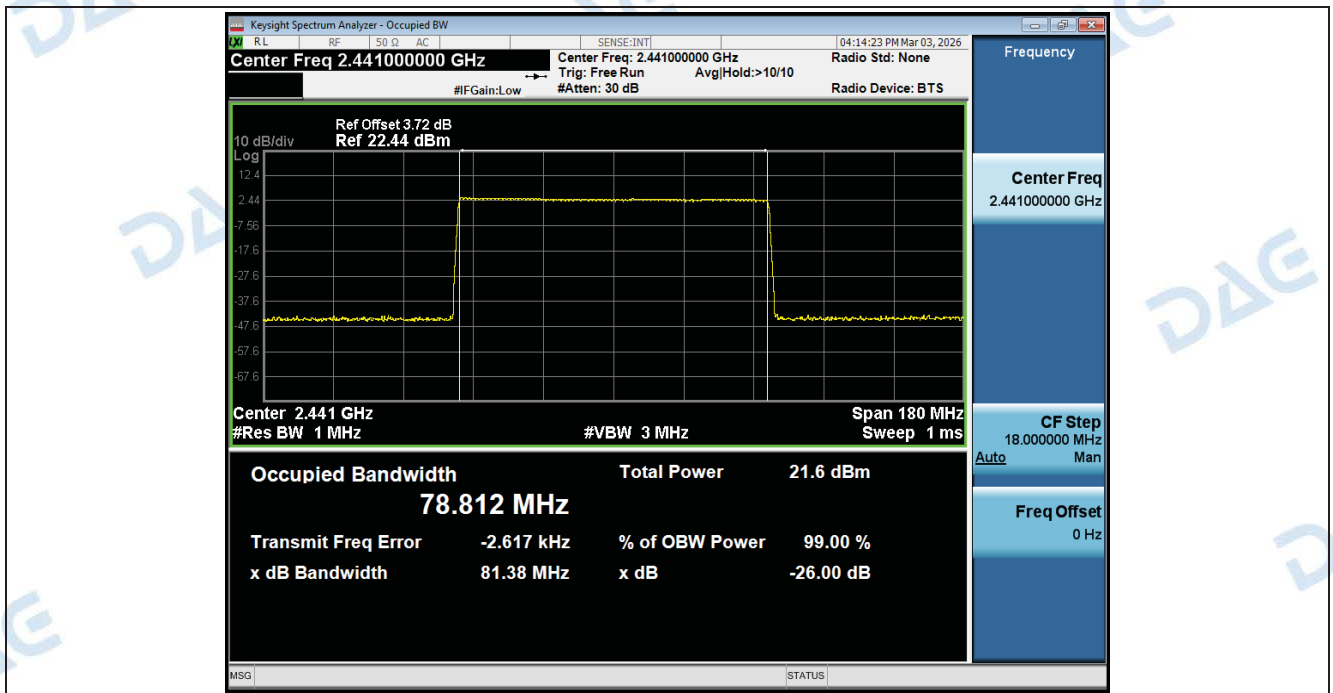
## 1. 99% Occupied Bandwidth (Hopping)

| Condition | Antenna | Modulation | mode    | Occupied Bandwidth(MHz) | Limit(MHz) | Result |
|-----------|---------|------------|---------|-------------------------|------------|--------|
| NVNT      | ANT1    | 1-DH5      | Hopping | 78.82                   | 83.50      | Pass   |
| NVNT      | ANT1    | 1-DH5      | Hopping | 78.81                   | 83.50      | Pass   |
| NVNT      | ANT1    | 1-DH5      | Hopping | 78.81                   | 83.50      | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 78.89                   | 83.50      | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 78.92                   | 83.50      | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 78.92                   | 83.50      | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 78.89                   | 83.50      | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 78.86                   | 83.50      | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 78.88                   | 83.50      | Pass   |

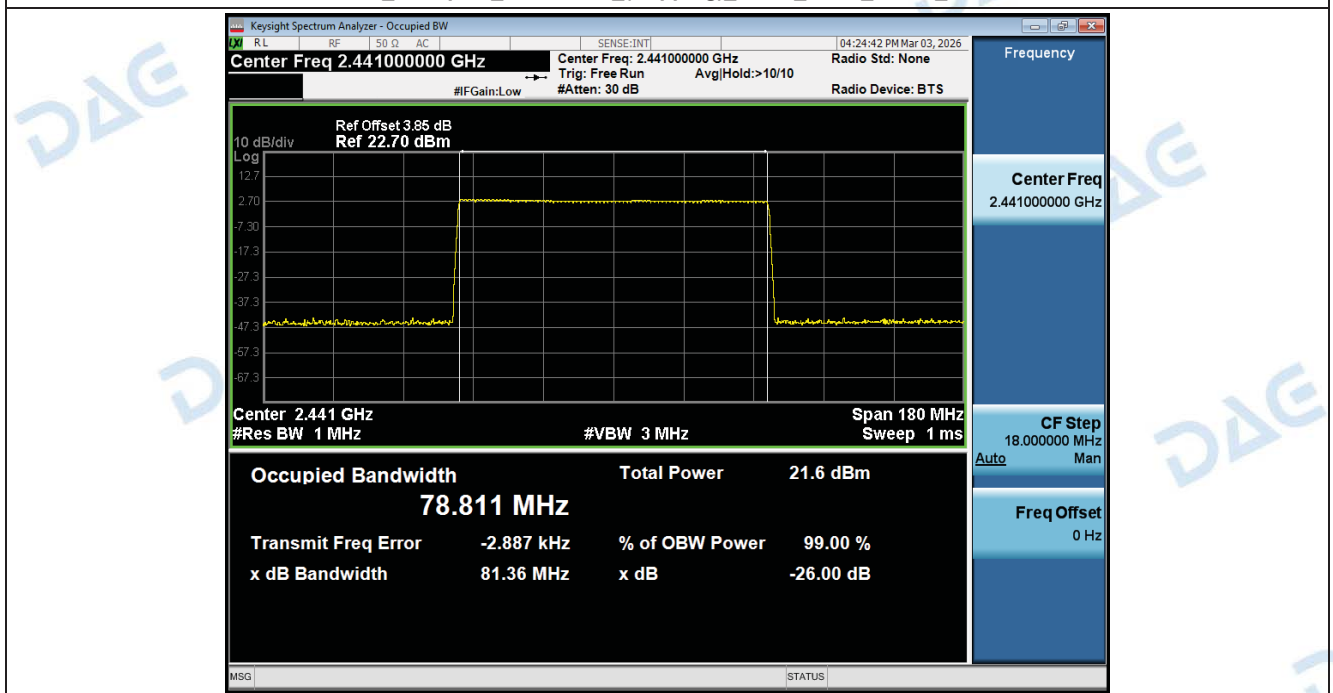
99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2402



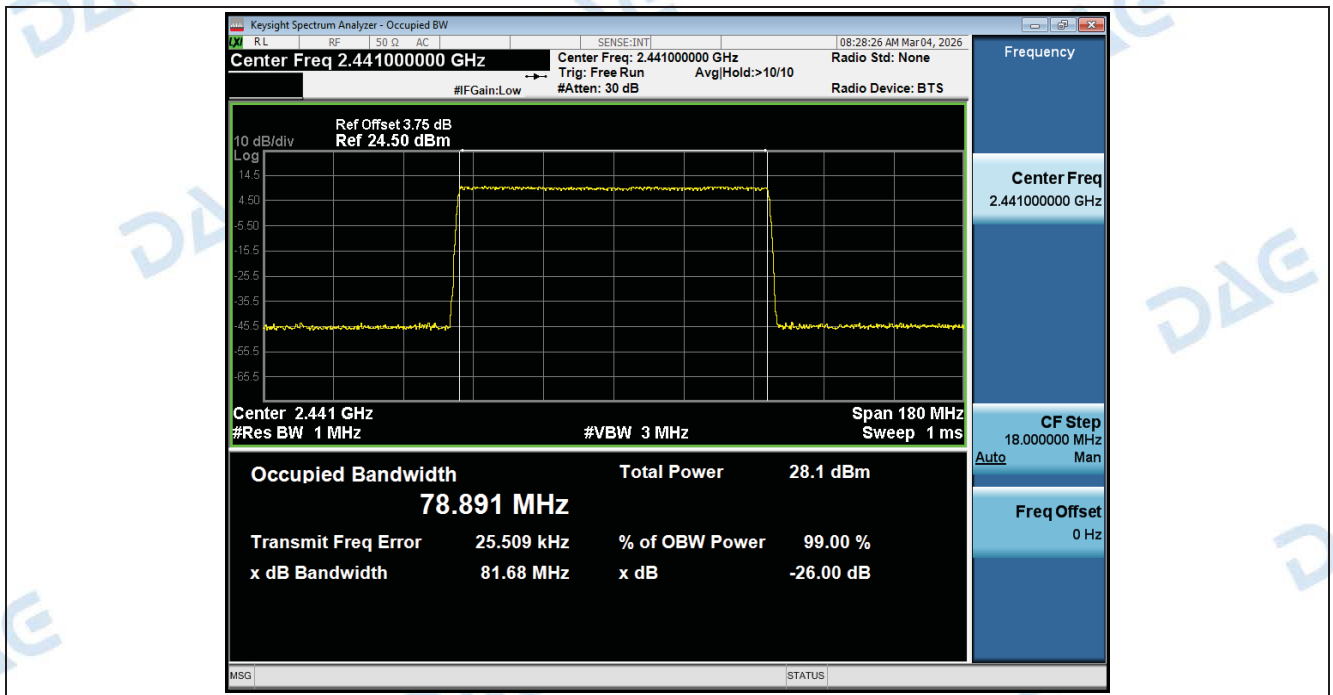
99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441



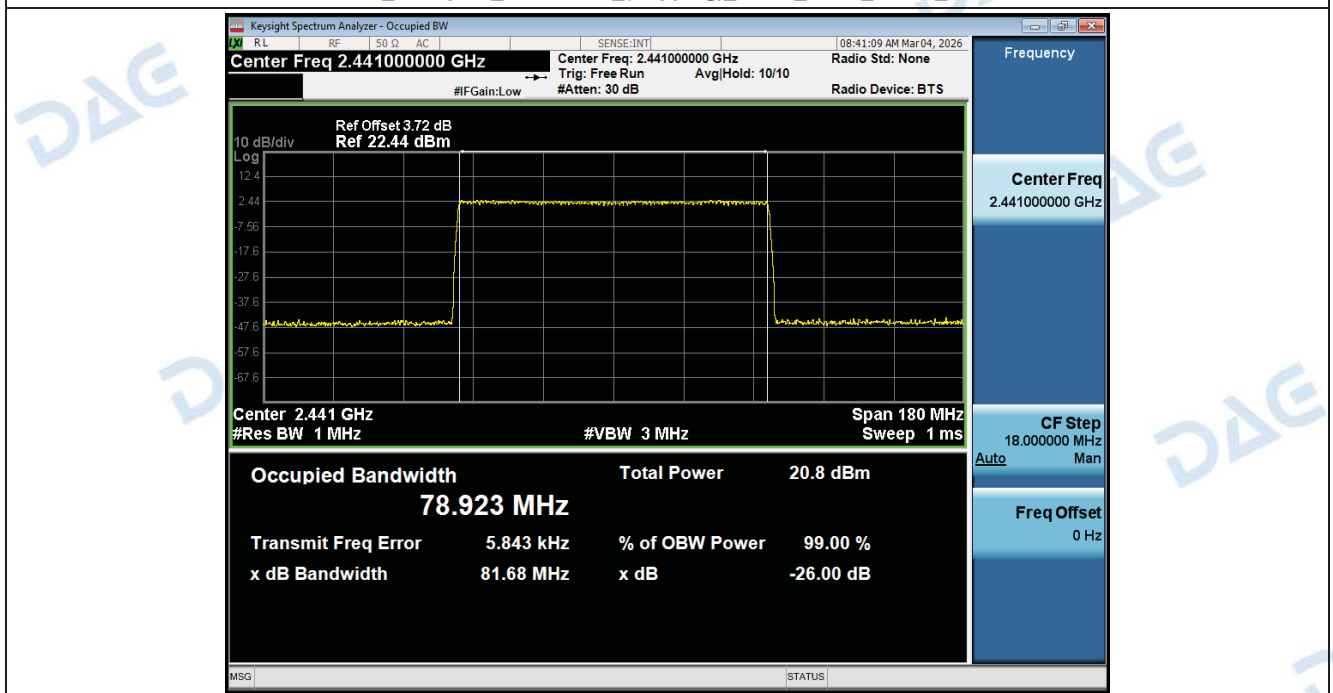
#### 99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2480



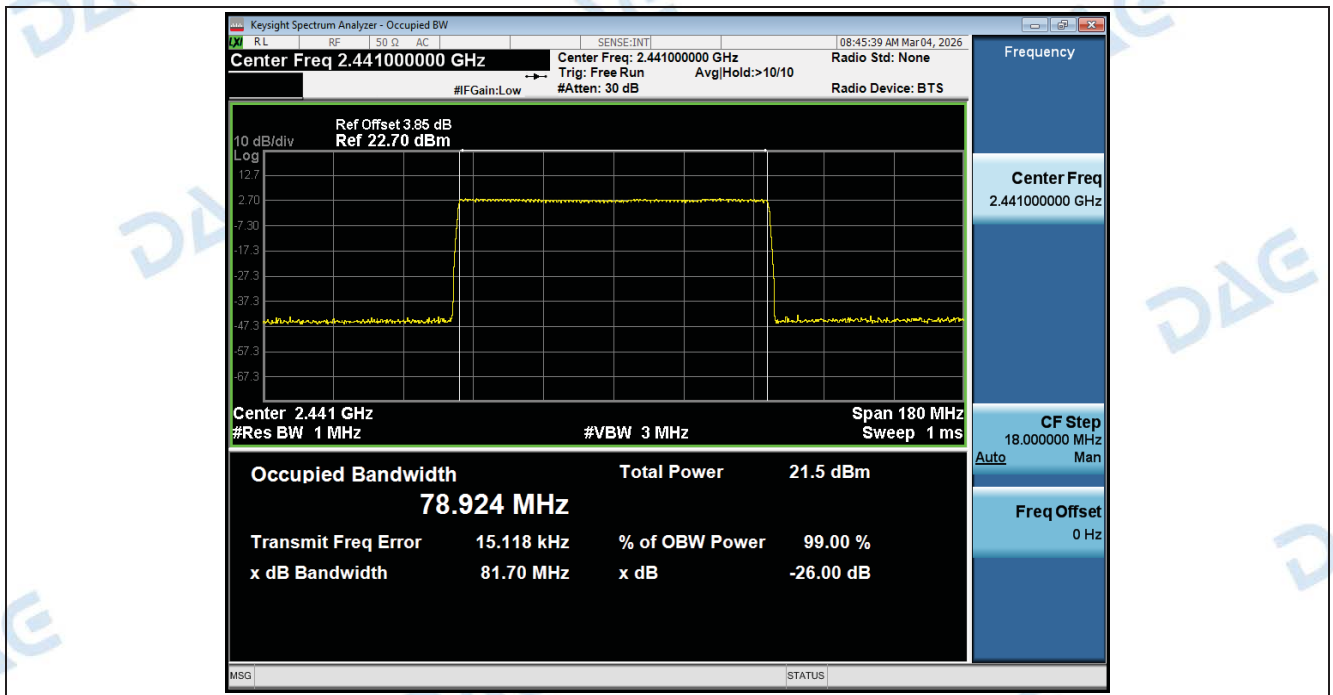
#### 99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2402



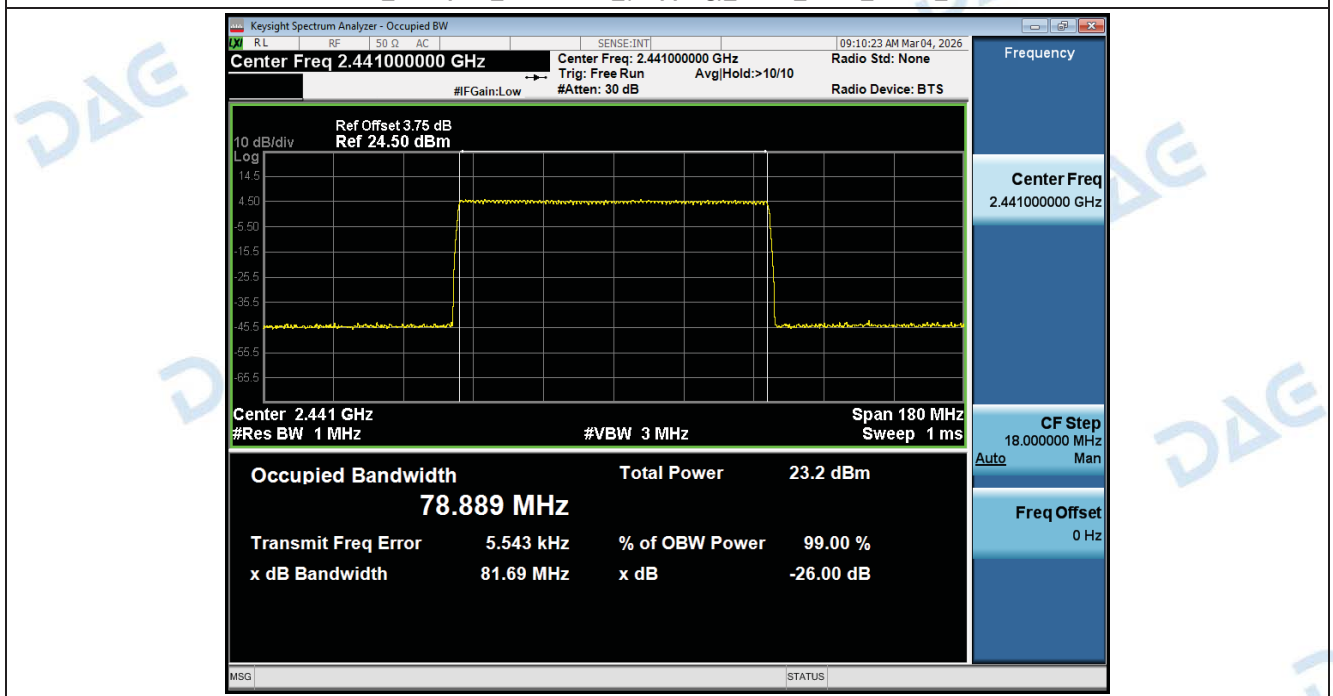
#### 99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2441



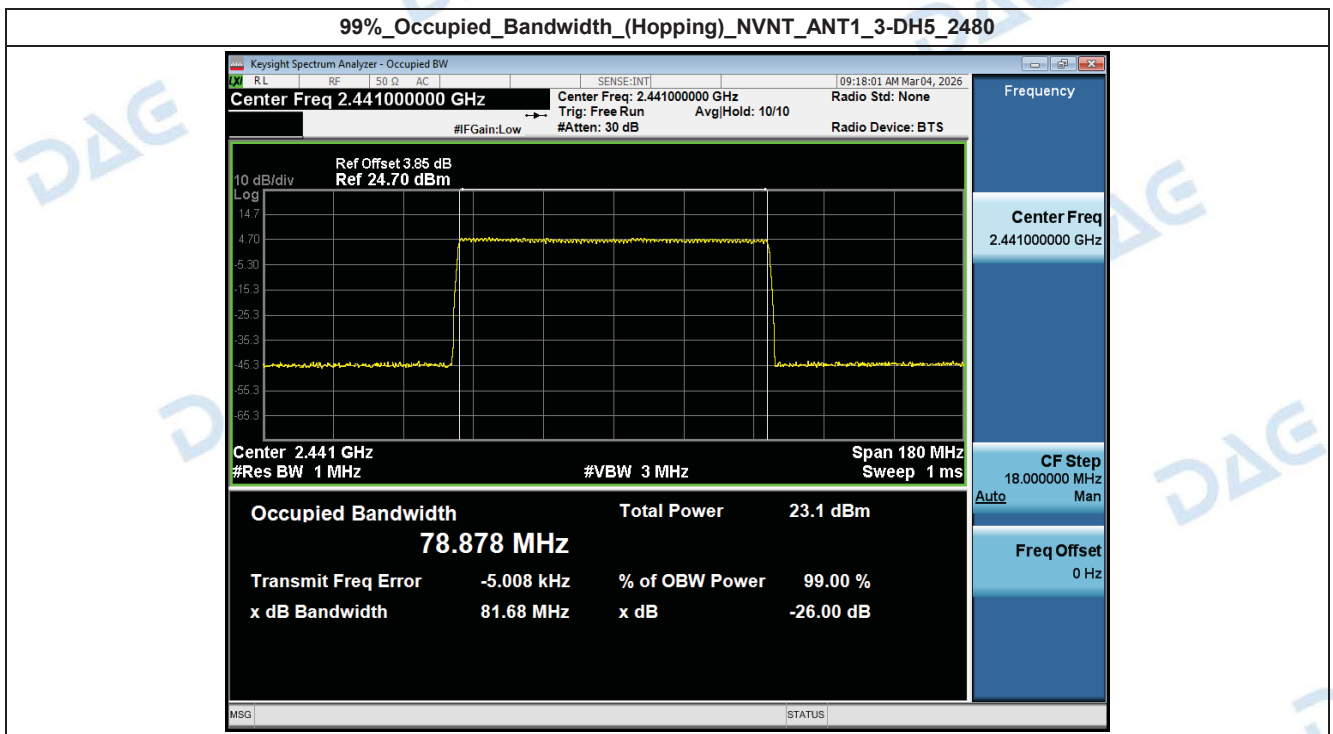
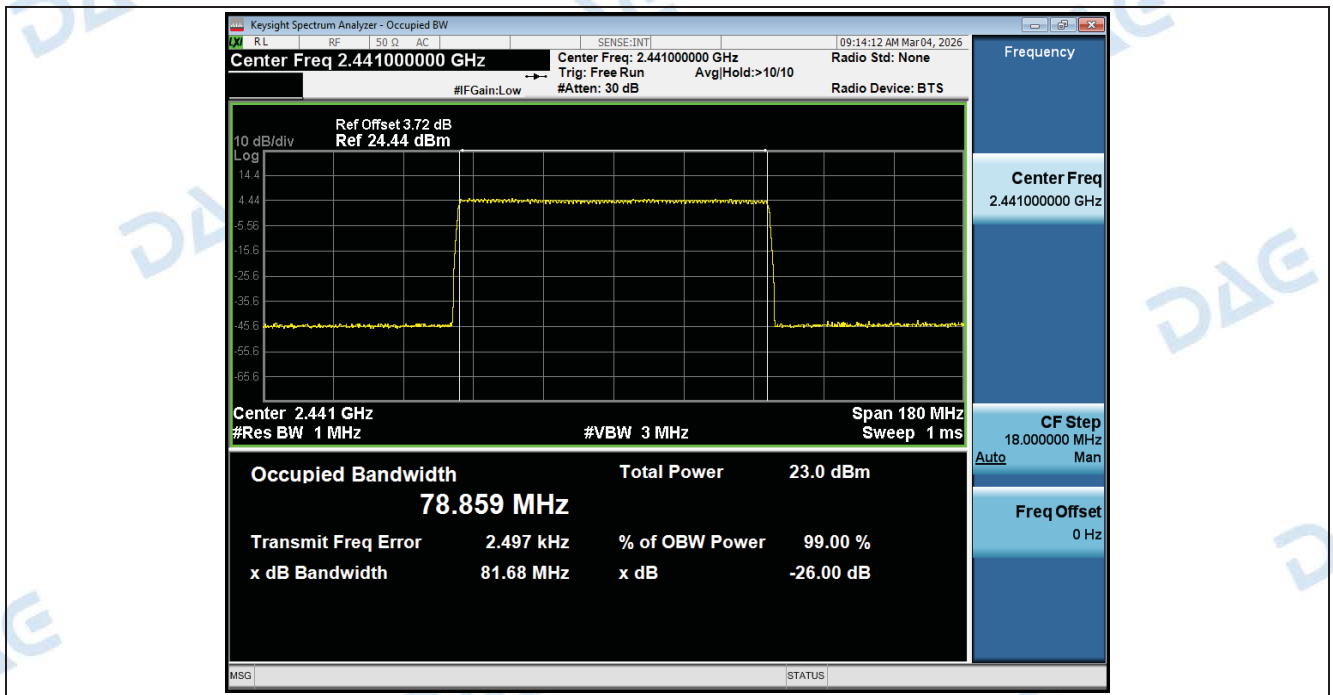
#### 99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2480



99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2402



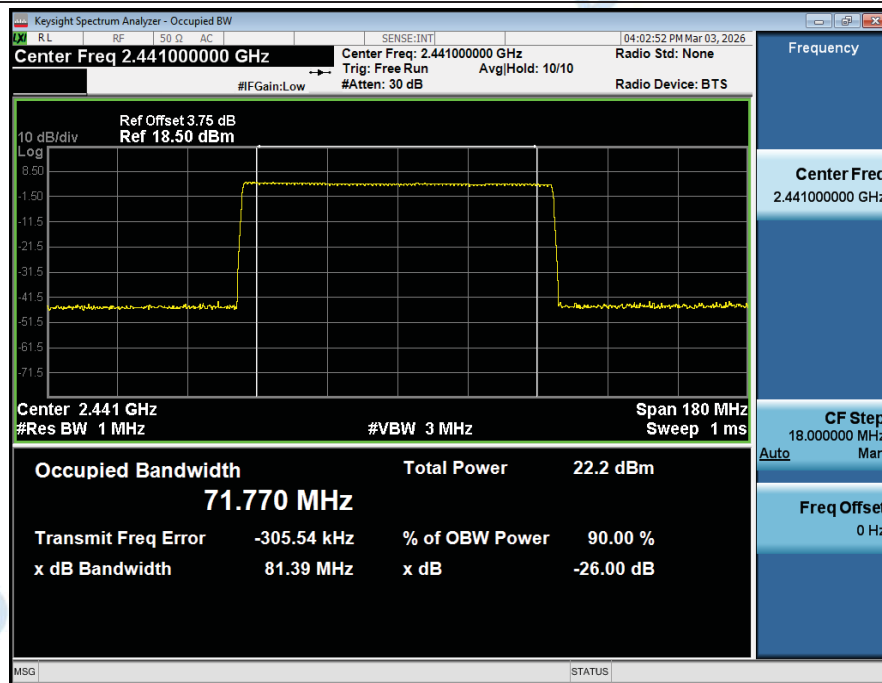
99%\_Occupied\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2441



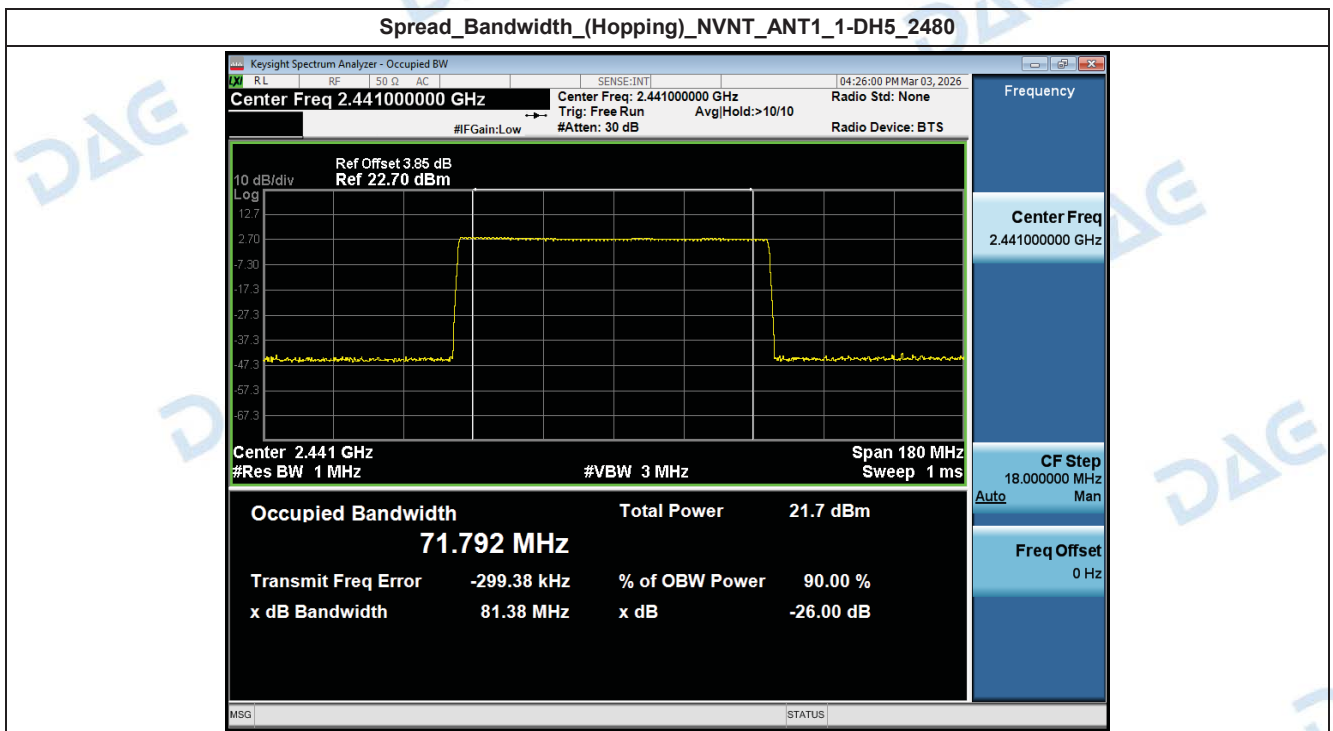
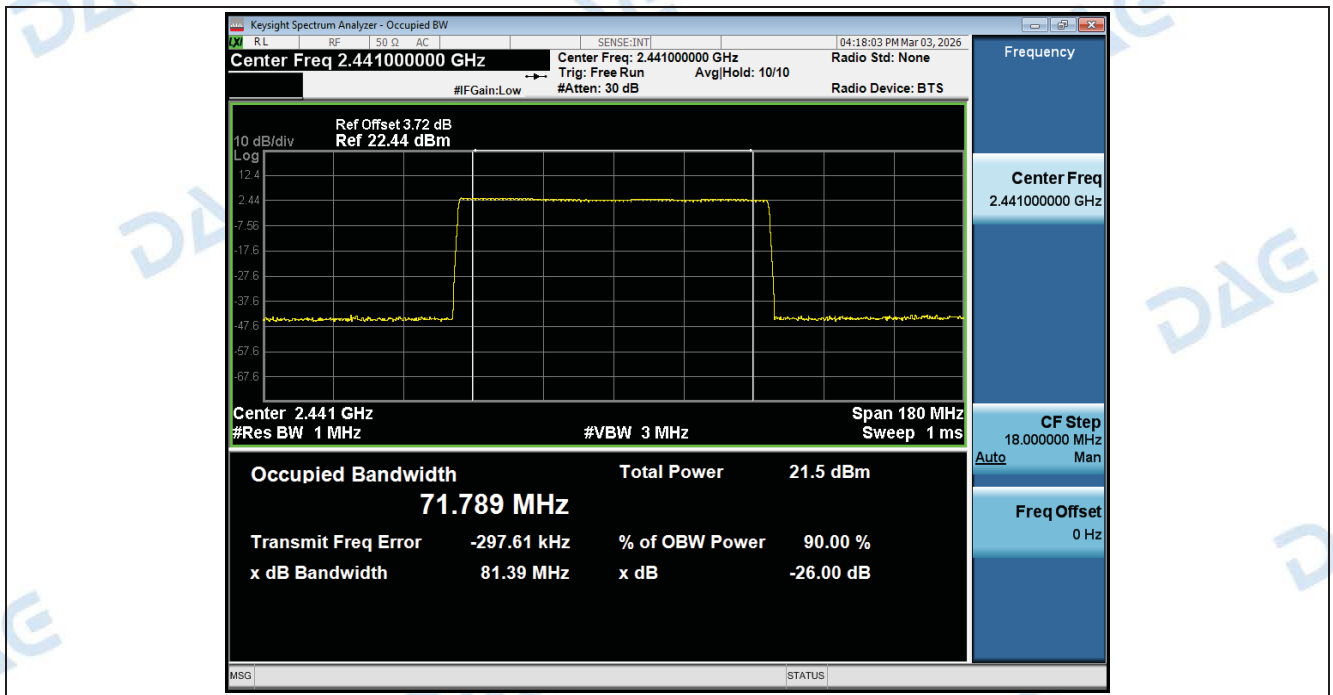
## 2. Spread Bandwidth (Hopping)

| Condition | Antenna | Modulation | mode    | Spread Bandwidth(MHz) | Spread Bandwidth Limit(kHz) | Rate(Msymbol/s) | Spread Factor |
|-----------|---------|------------|---------|-----------------------|-----------------------------|-----------------|---------------|
| NVNT      | ANT1    | 1-DH5      | Hopping | 71.77                 | 500                         | 1               | 71.77         |
| NVNT      | ANT1    | 1-DH5      | Hopping | 71.79                 | 500                         | 1               | 71.79         |
| NVNT      | ANT1    | 1-DH5      | Hopping | 71.79                 | 500                         | 1               | 71.79         |
| NVNT      | ANT1    | 2-DH5      | Hopping | 71.73                 | 500                         | 1               | 71.73         |
| NVNT      | ANT1    | 2-DH5      | Hopping | 71.92                 | 500                         | 1               | 71.92         |
| NVNT      | ANT1    | 2-DH5      | Hopping | 72.00                 | 500                         | 1               | 72.00         |
| NVNT      | ANT1    | 3-DH5      | Hopping | 71.73                 | 500                         | 1               | 71.73         |
| NVNT      | ANT1    | 3-DH5      | Hopping | 71.86                 | 500                         | 1               | 71.86         |
| NVNT      | ANT1    | 3-DH5      | Hopping | 71.77                 | 500                         | 1               | 71.77         |

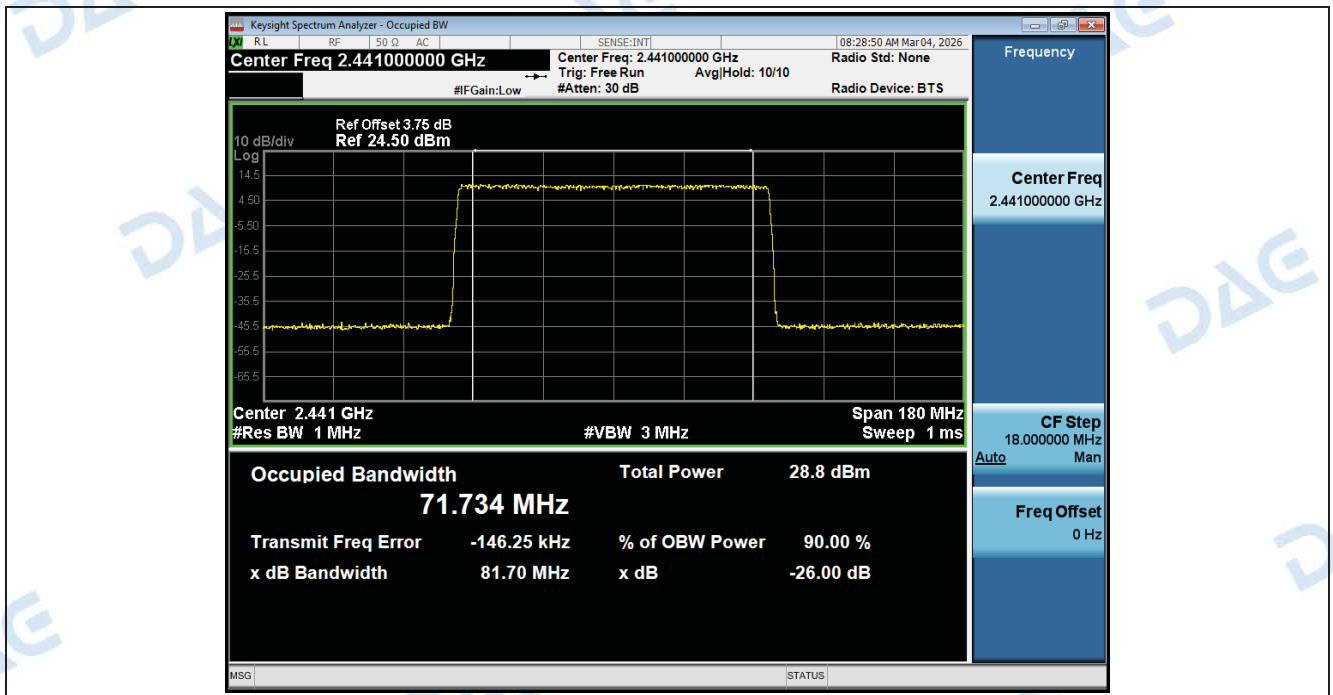
Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2402



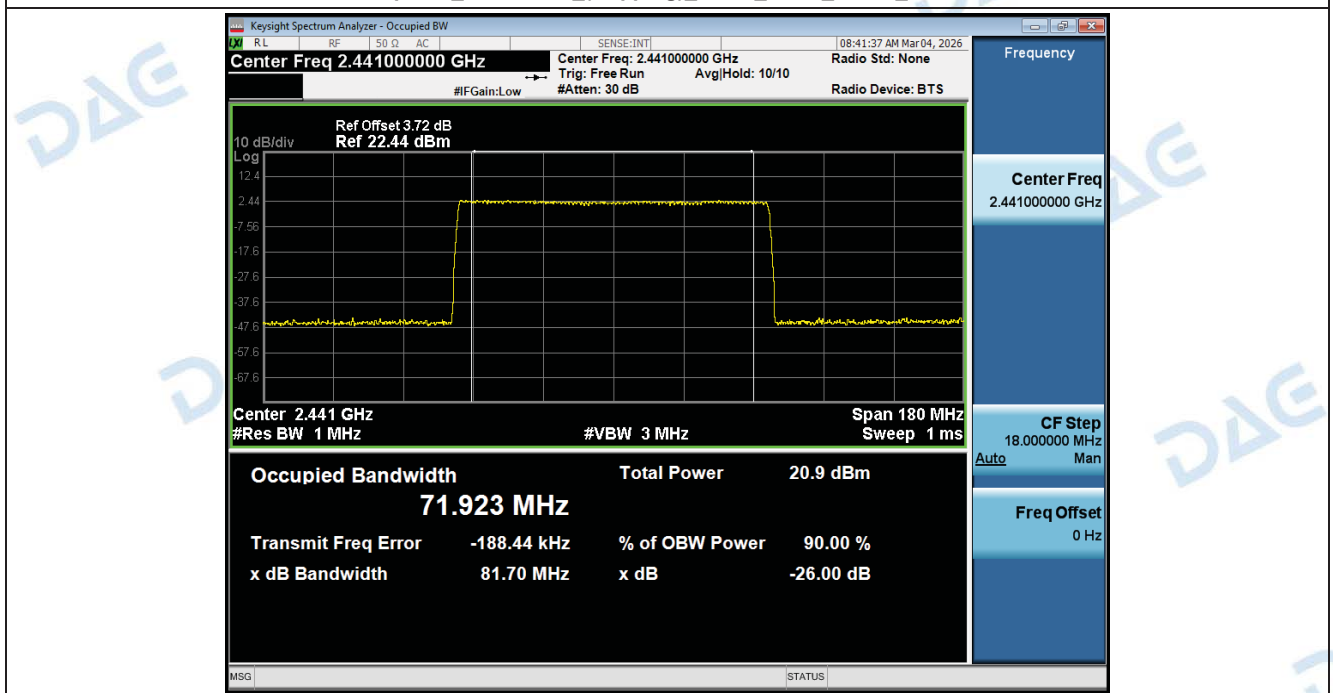
Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441



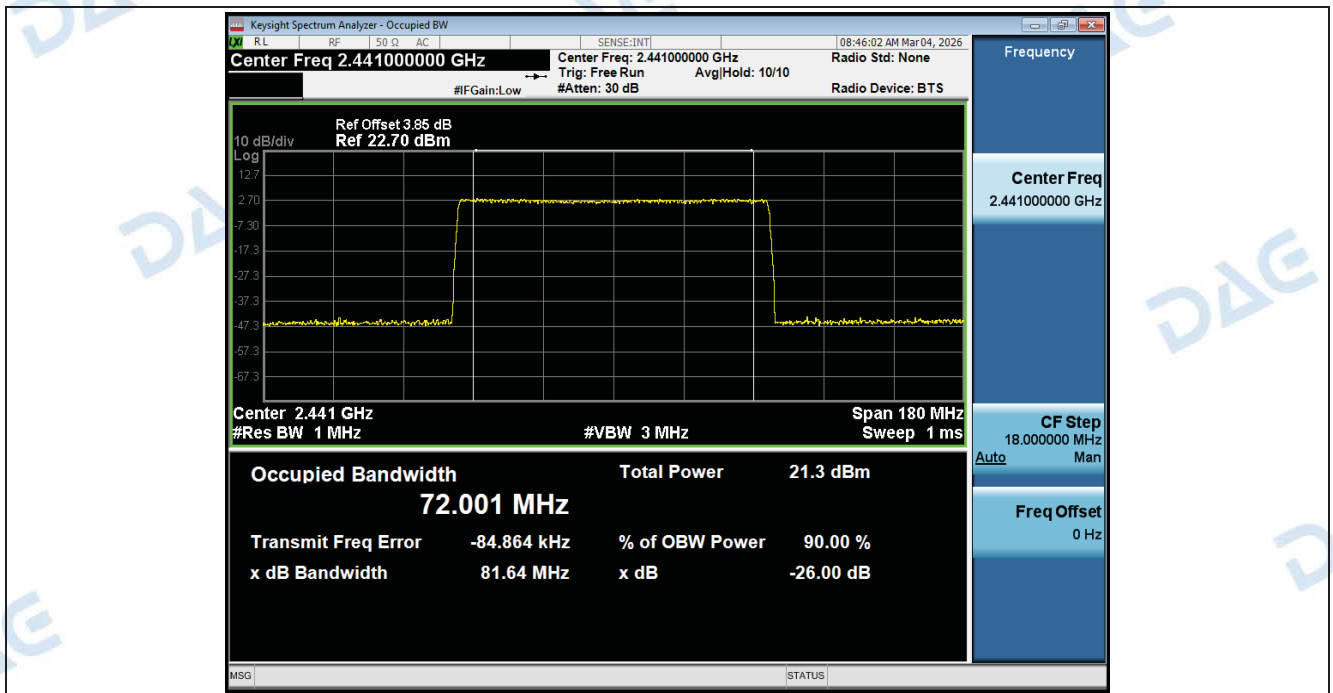
### Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2402



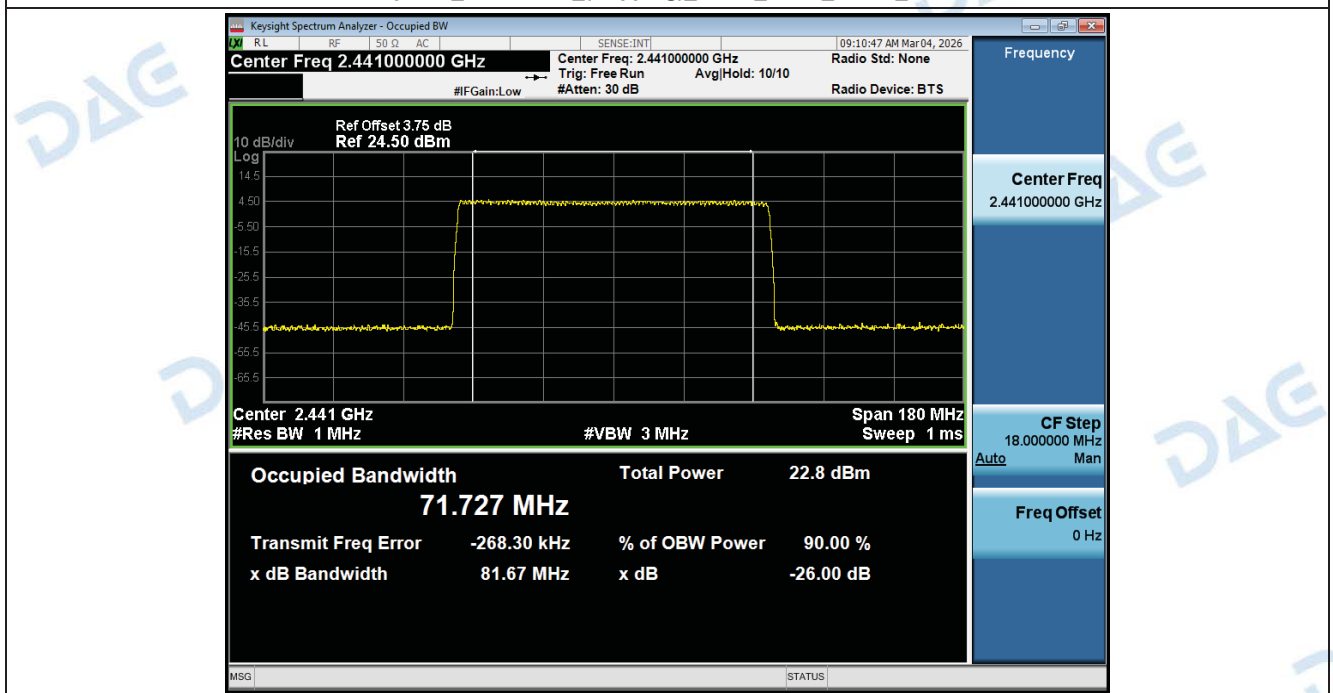
Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2441



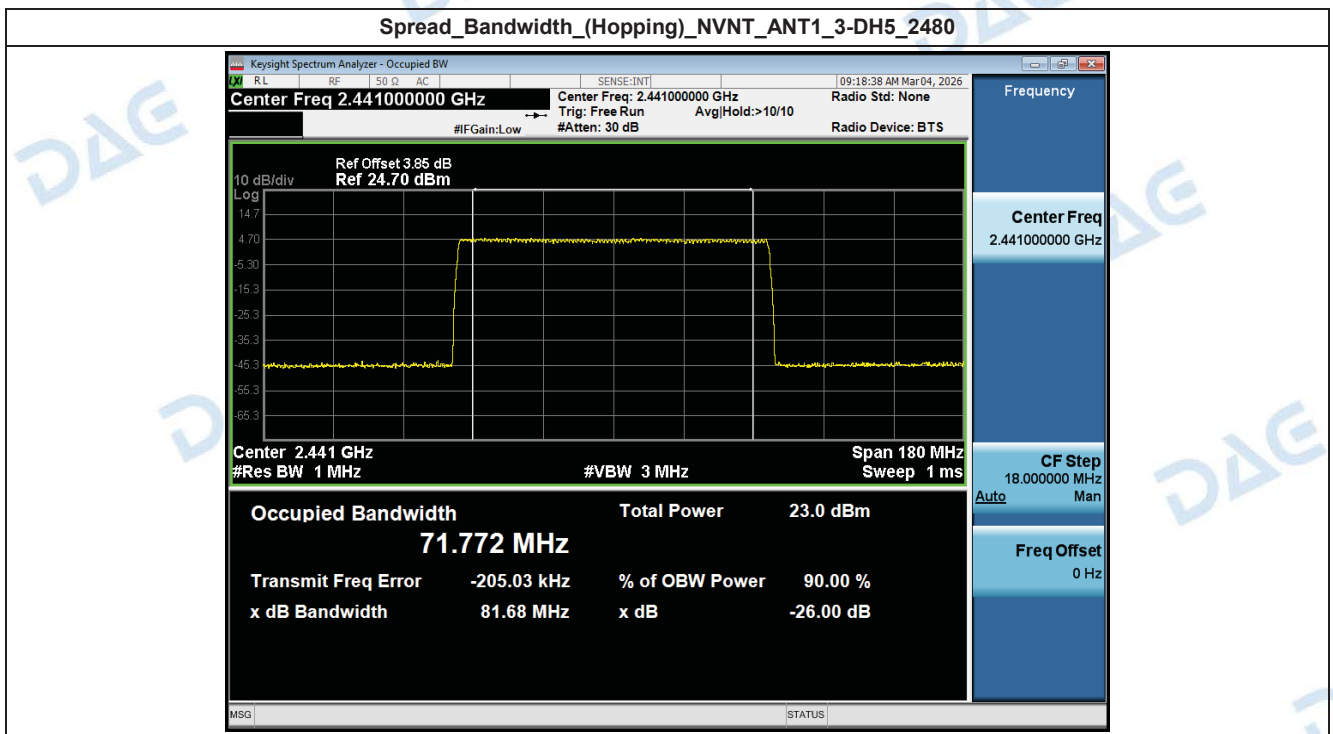
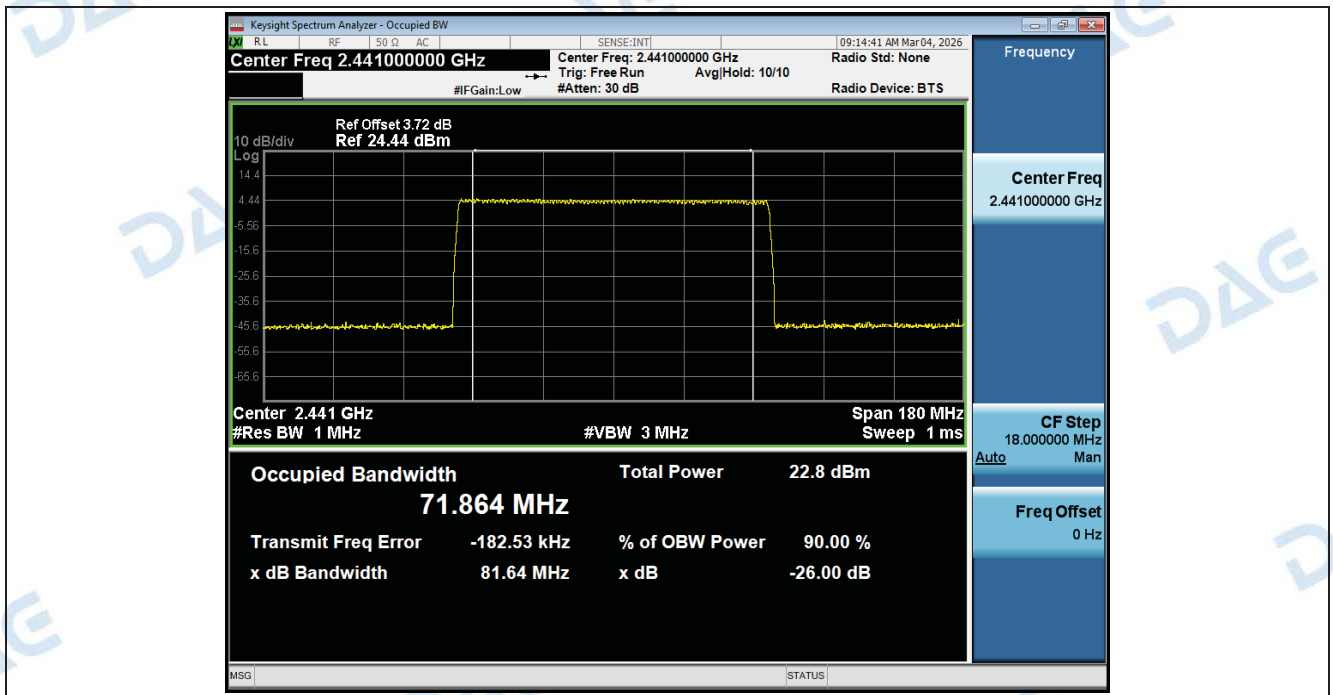
Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2480



### Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2402



### Spread\_Bandwidth\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2441

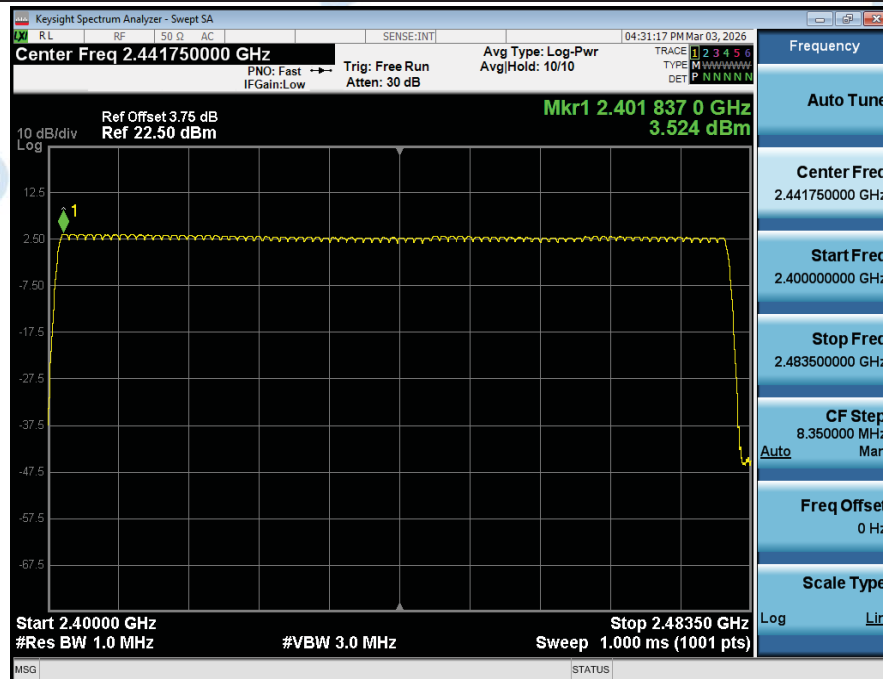


### 3. Antena Power (Hopping)

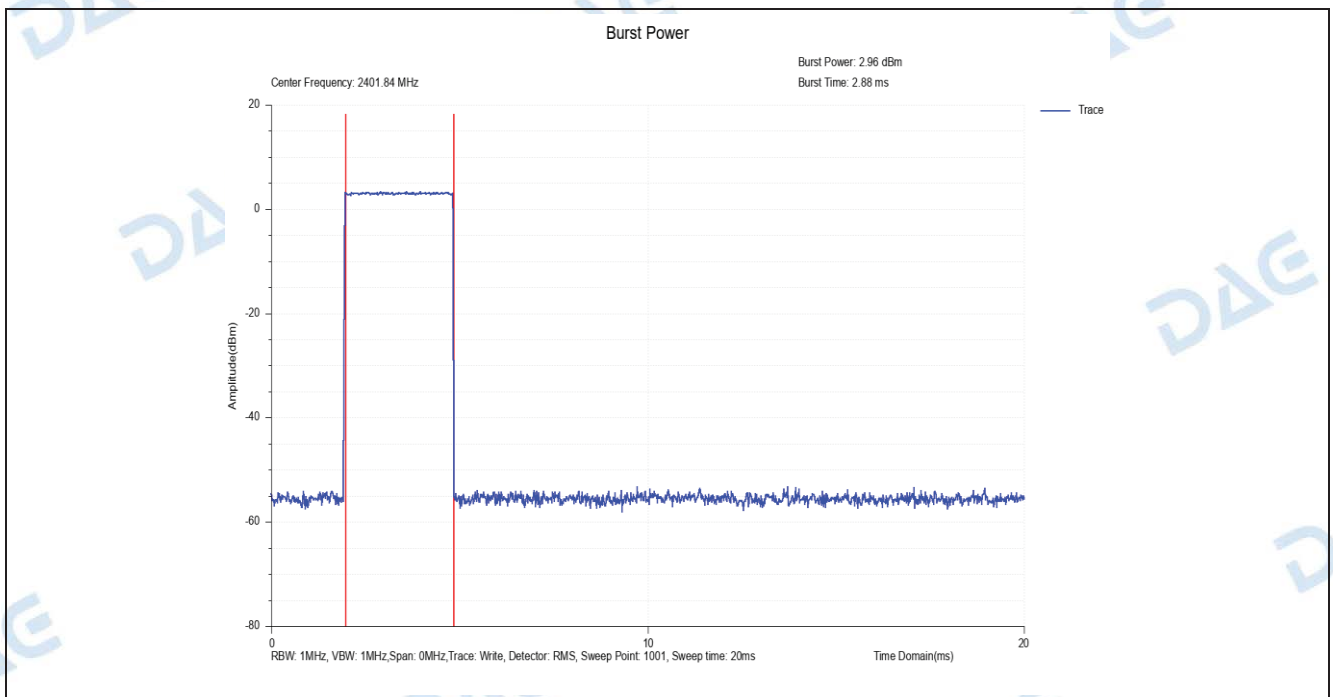
| Condition | Antenna | Mode  | Frequency | Burst Power(dBm) | Burst Power(mW) | Spread BW(MHz) | Antenna Power(mW/MHz) |
|-----------|---------|-------|-----------|------------------|-----------------|----------------|-----------------------|
| NVNT      | ANT1    | 1-DH5 | Hopping   | 2.96             | 1.98            | 71.770         | 0.03                  |
| NVNT      | ANT1    | 1-DH5 | Hopping   | 2.98             | 1.99            | 71.790         | 0.03                  |
| NVNT      | ANT1    | 1-DH5 | Hopping   | 2.74             | 1.88            | 71.790         | 0.03                  |
| NVNT      | ANT1    | 2-DH5 | Hopping   | 2.08             | 1.61            | 71.730         | 0.02                  |
| NVNT      | ANT1    | 2-DH5 | Hopping   | 1.96             | 1.57            | 71.920         | 0.02                  |
| NVNT      | ANT1    | 2-DH5 | Hopping   | 2.02             | 1.59            | 72.000         | 0.02                  |
| NVNT      | ANT1    | 3-DH5 | Hopping   | 1.89             | 1.54            | 71.730         | 0.02                  |
| NVNT      | ANT1    | 3-DH5 | Hopping   | 1.79             | 1.51            | 71.860         | 0.02                  |
| NVNT      | ANT1    | 3-DH5 | Hopping   | 2.00             | 1.58            | 71.770         | 0.02                  |

| Condition | Antenna | Modulation | Mode    | Antenna Power(mW/MHz) | Rated Power(mW/MHz) | Power Limit(mW/MHz) | Power Tolerance(%) | Tolerance Limit(%) | Result |
|-----------|---------|------------|---------|-----------------------|---------------------|---------------------|--------------------|--------------------|--------|
| NVNT      | ANT1    | 1-DH5      | Hopping | 0.03                  | 2.48                | 0.03                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 1-DH5      | Hopping | 0.03                  | 2.76                | 0.03                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 1-DH5      | Hopping | 0.03                  | 2.37                | 0.03                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 0.02                  | 2.75                | 0.02                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 0.02                  | 2.64                | 0.02                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 0.02                  | 2.17                | 0.02                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 0.02                  | 2.78                | 0.02                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 0.02                  | 2.59                | 0.02                | 0.00               | +20                | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 0.02                  | 2.37                | 0.02                | 0.00               | +20                | Pass   |

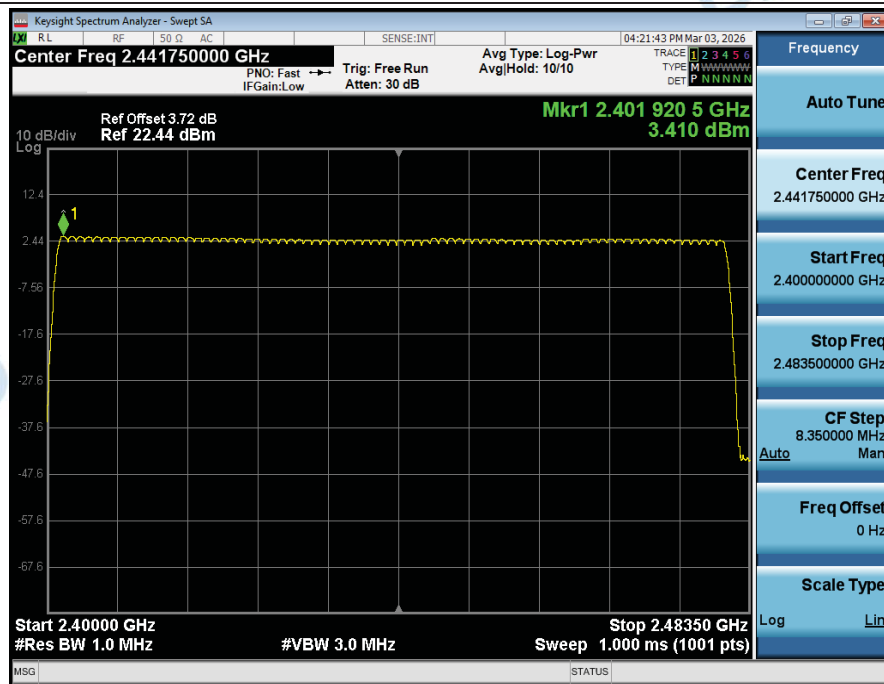
1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2402



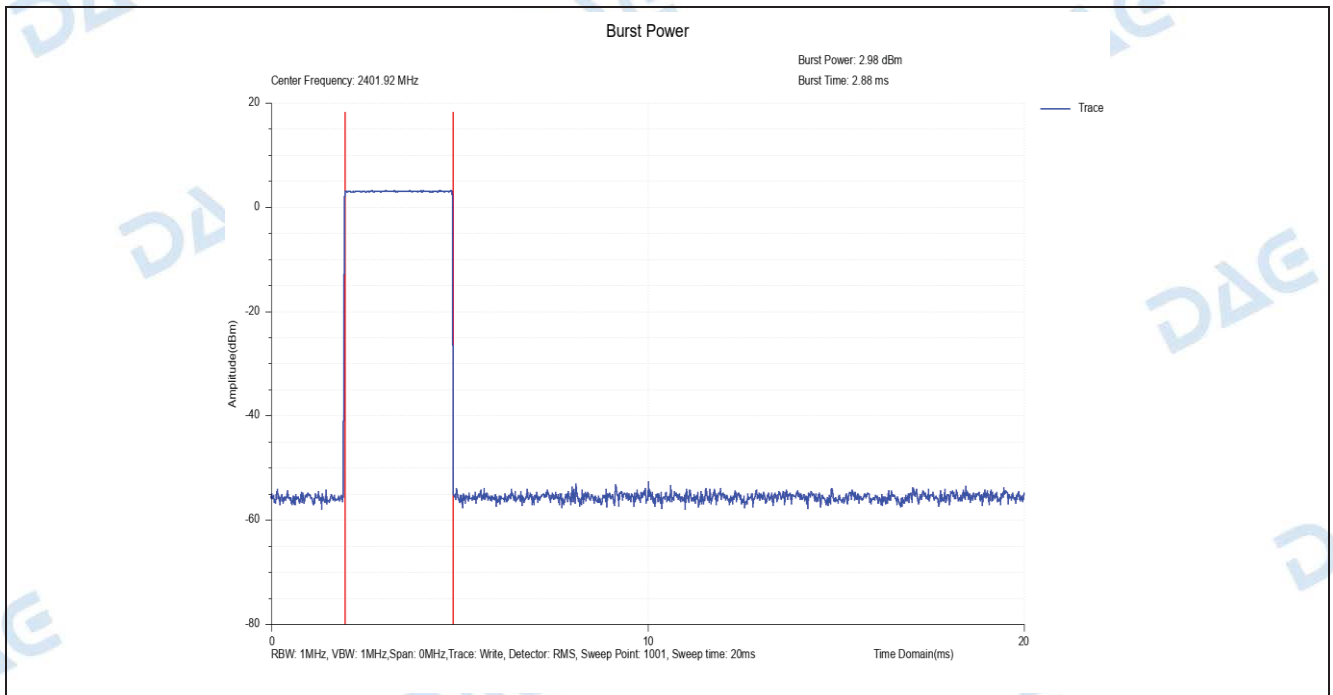
2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2402



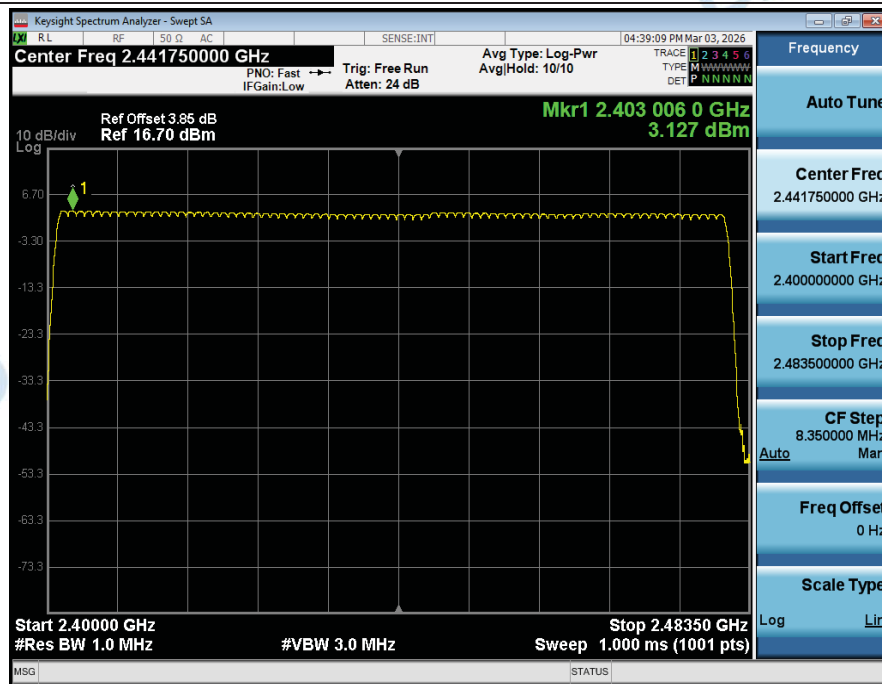
**1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441**



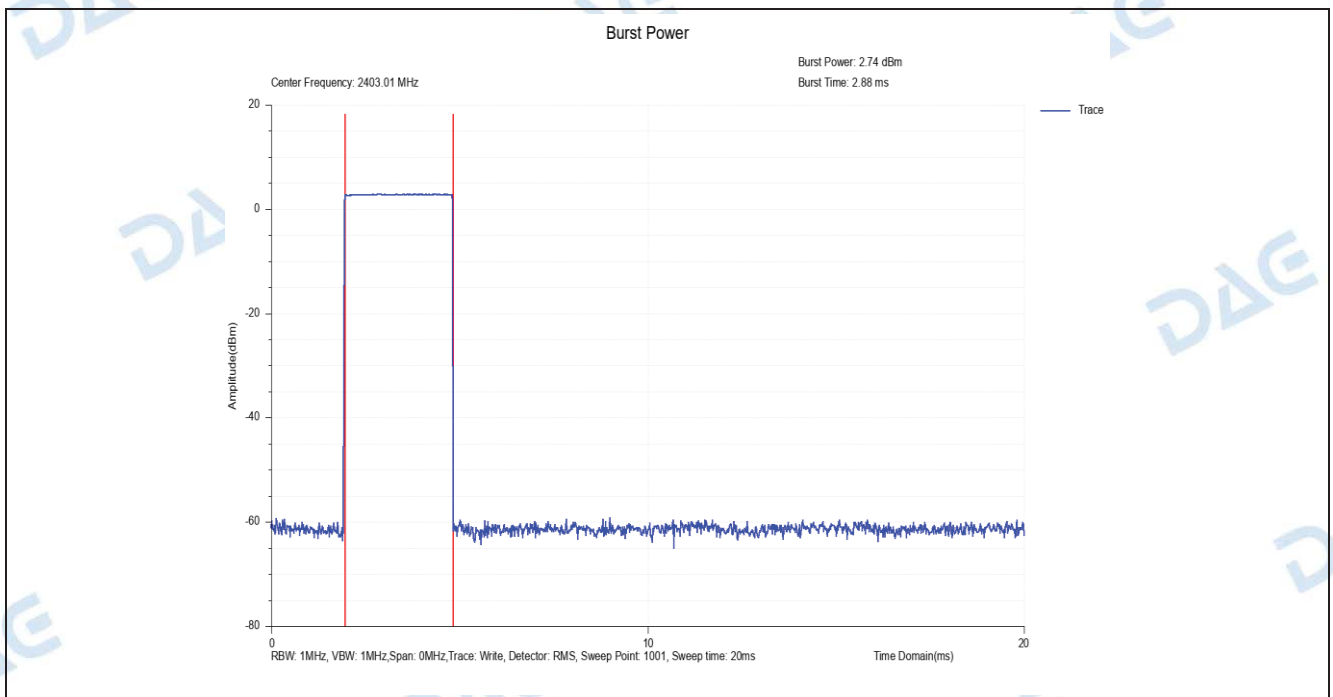
**2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2441**



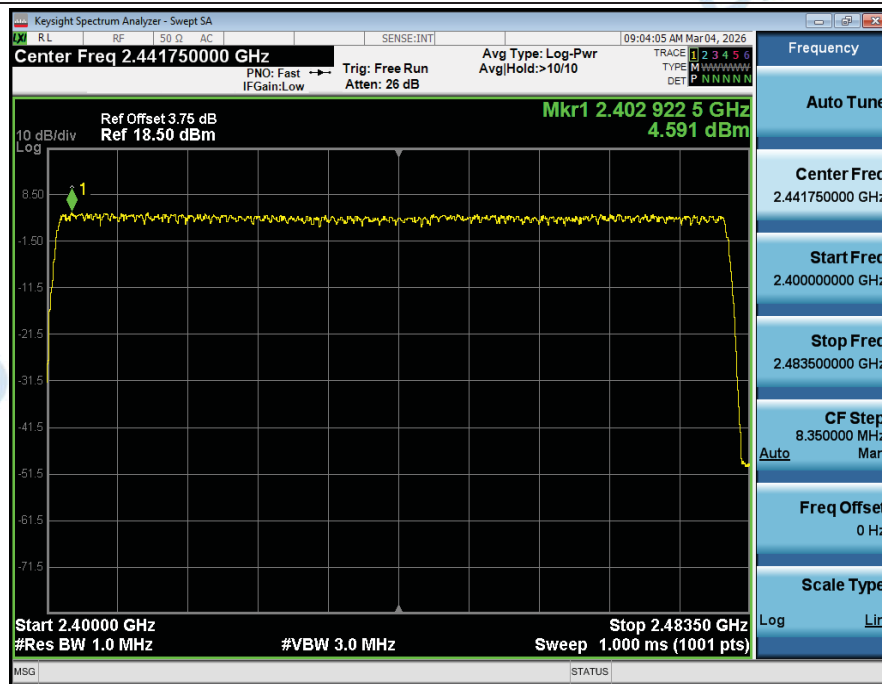
**1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2480**



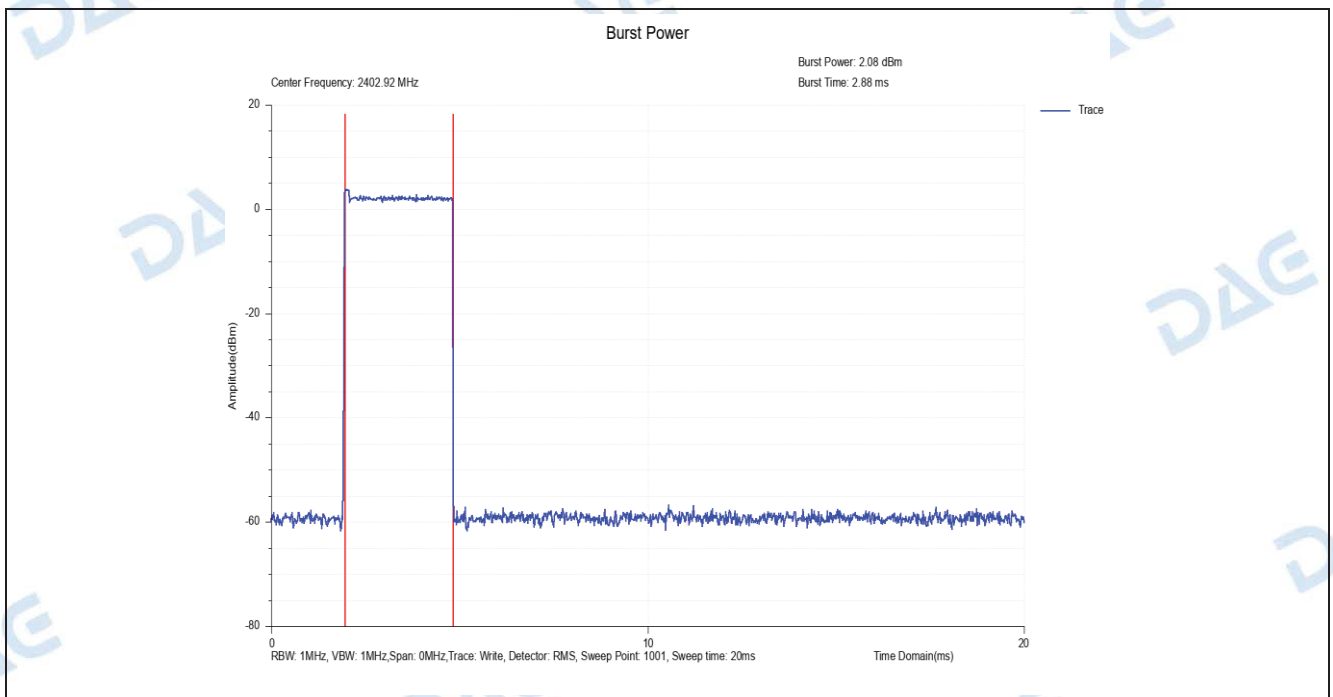
**2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_1-DH5\_2480**



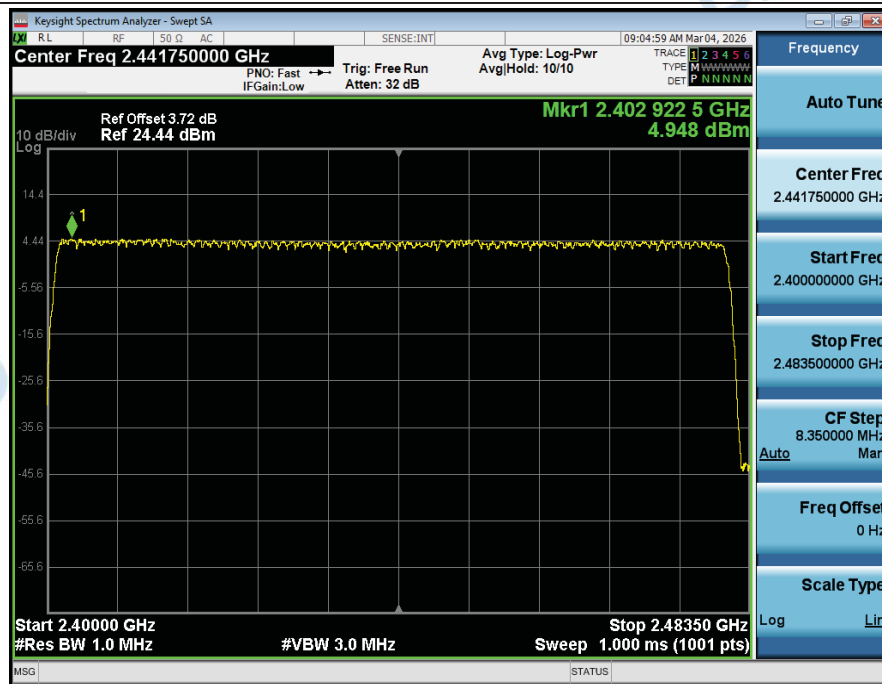
**1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2402**



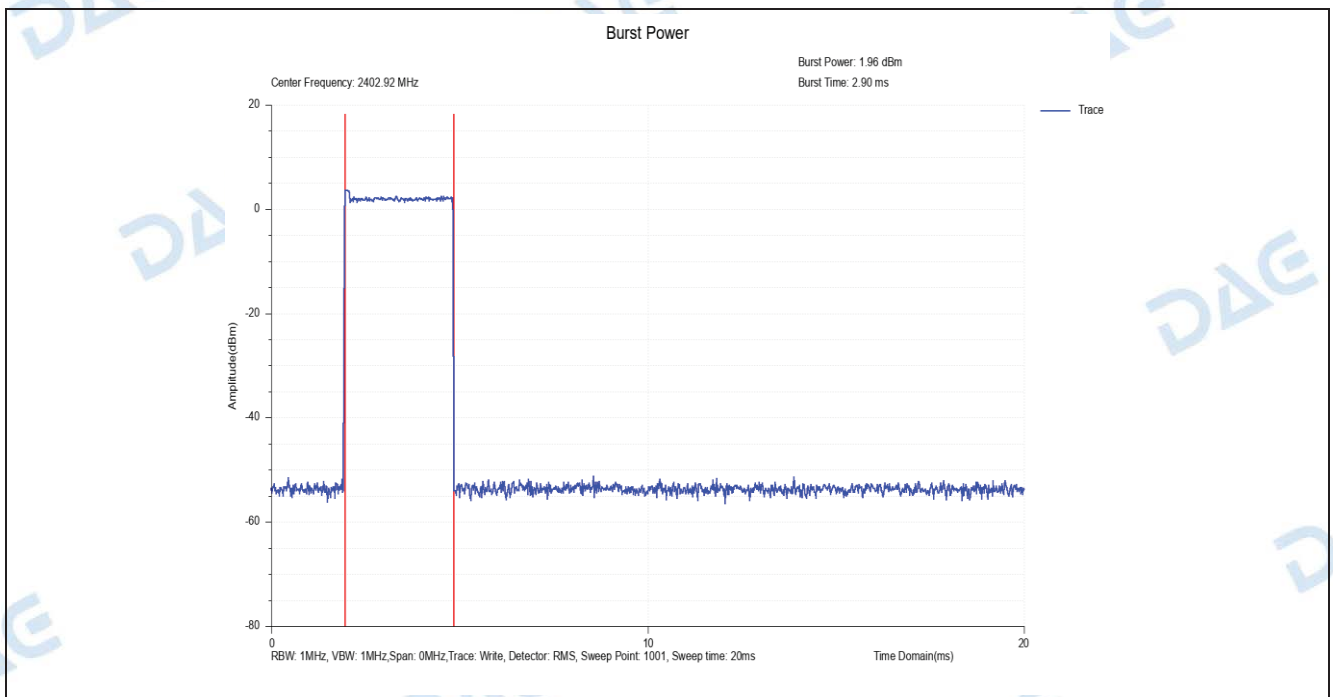
**2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2402**



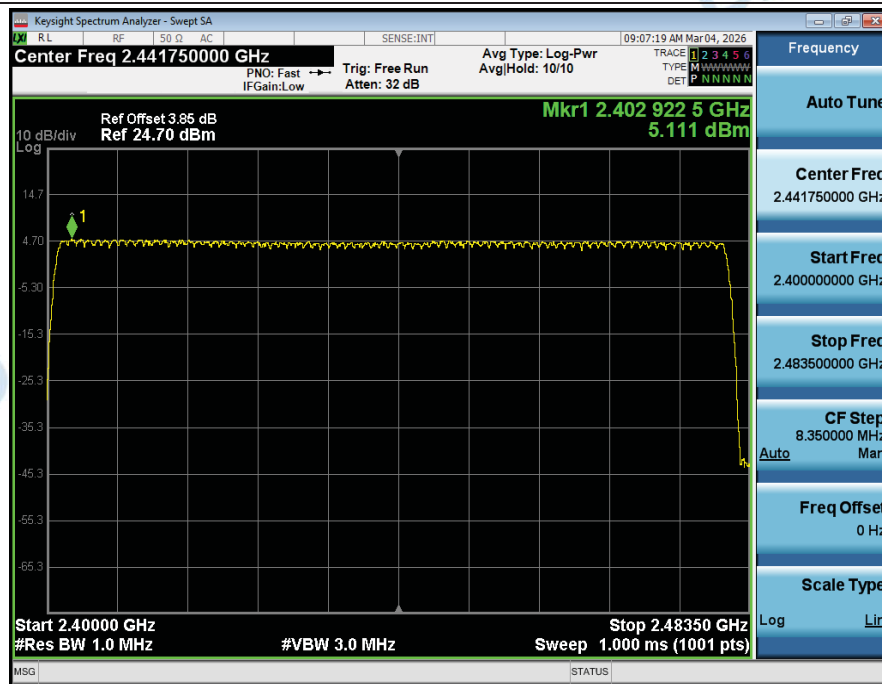
### 1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2441



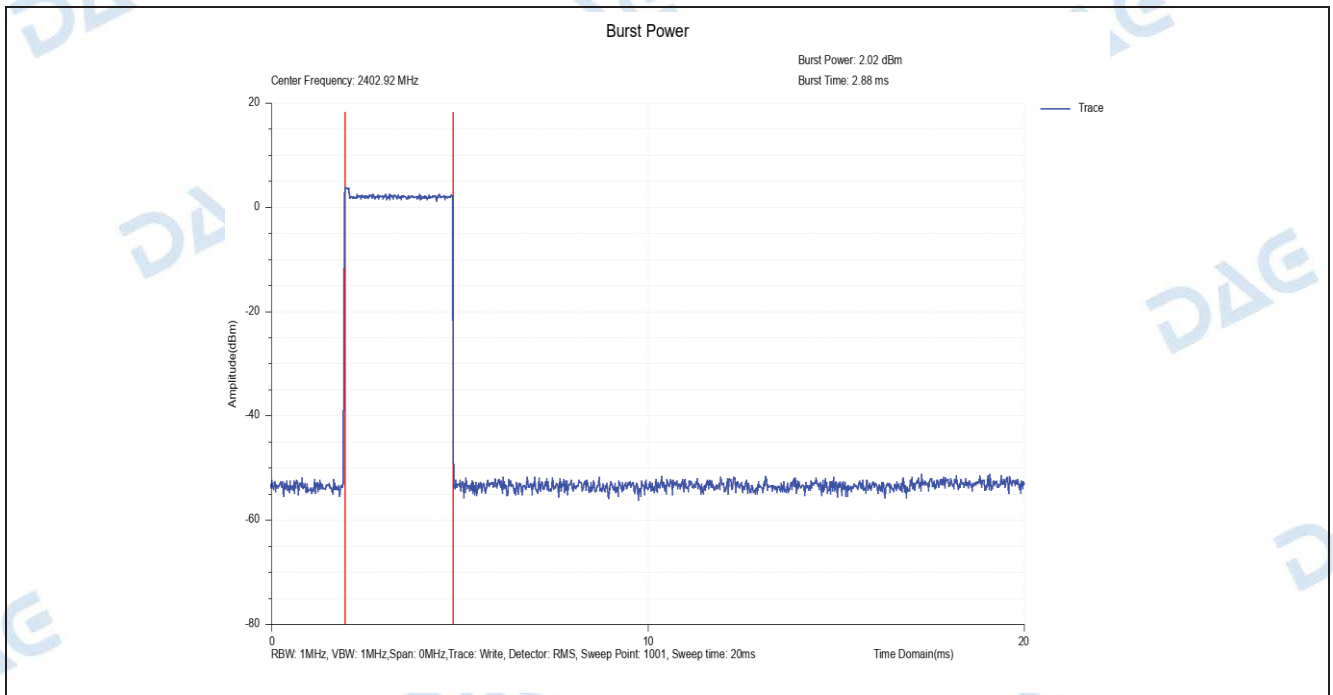
### 2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2441



### 1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_2-DH5\_2480



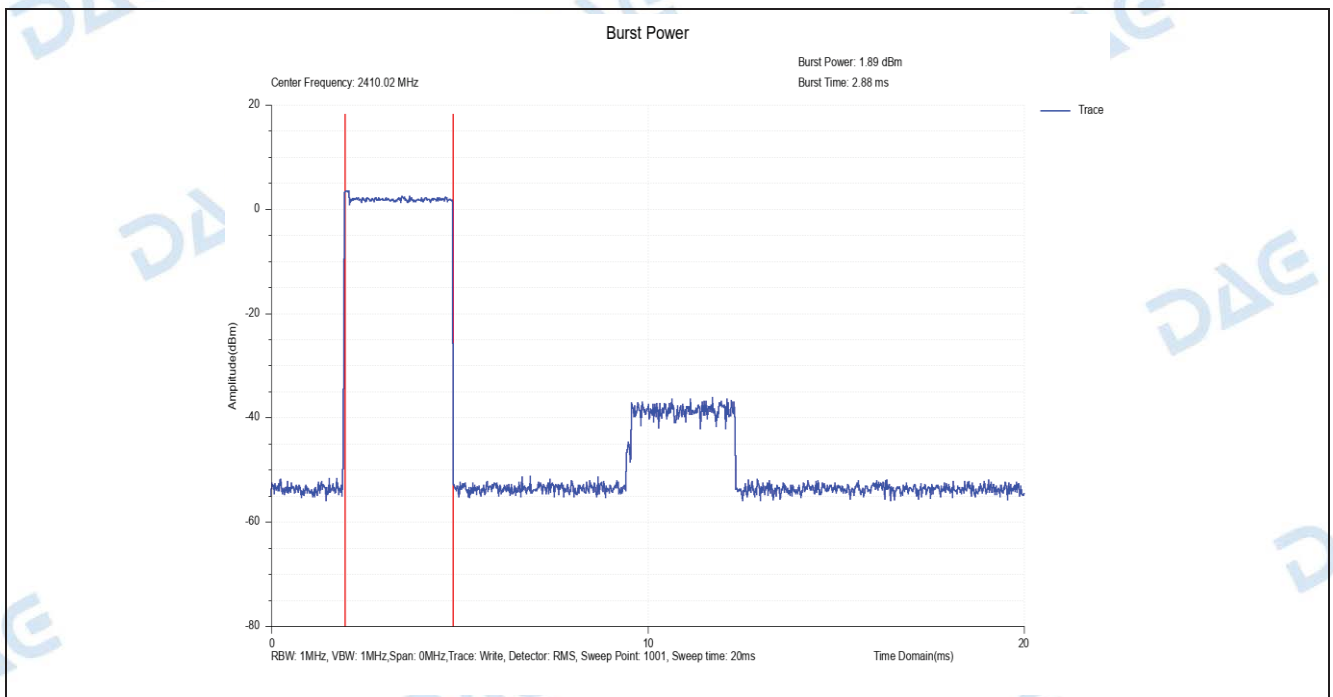
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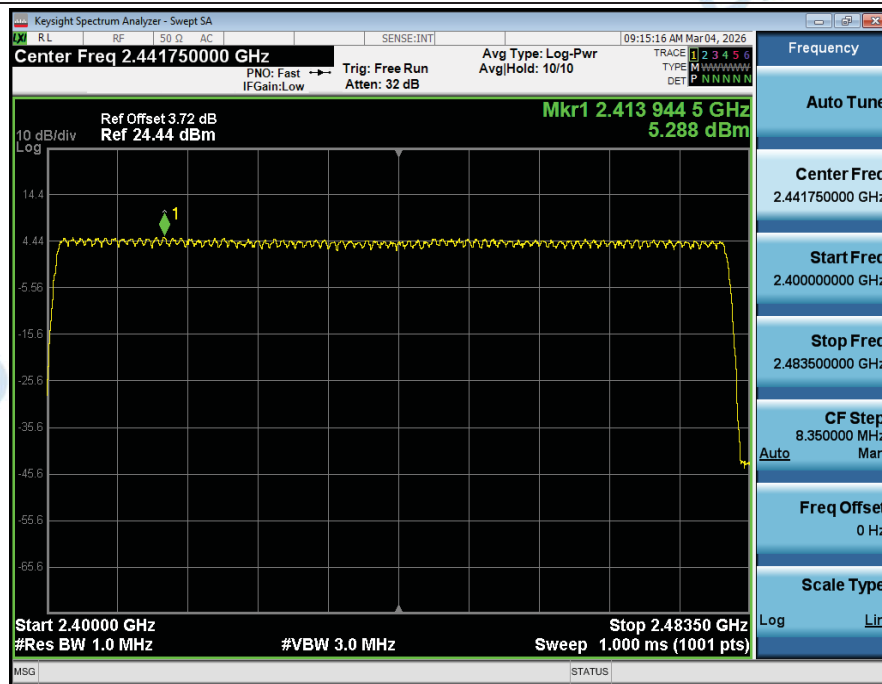
### 1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2402



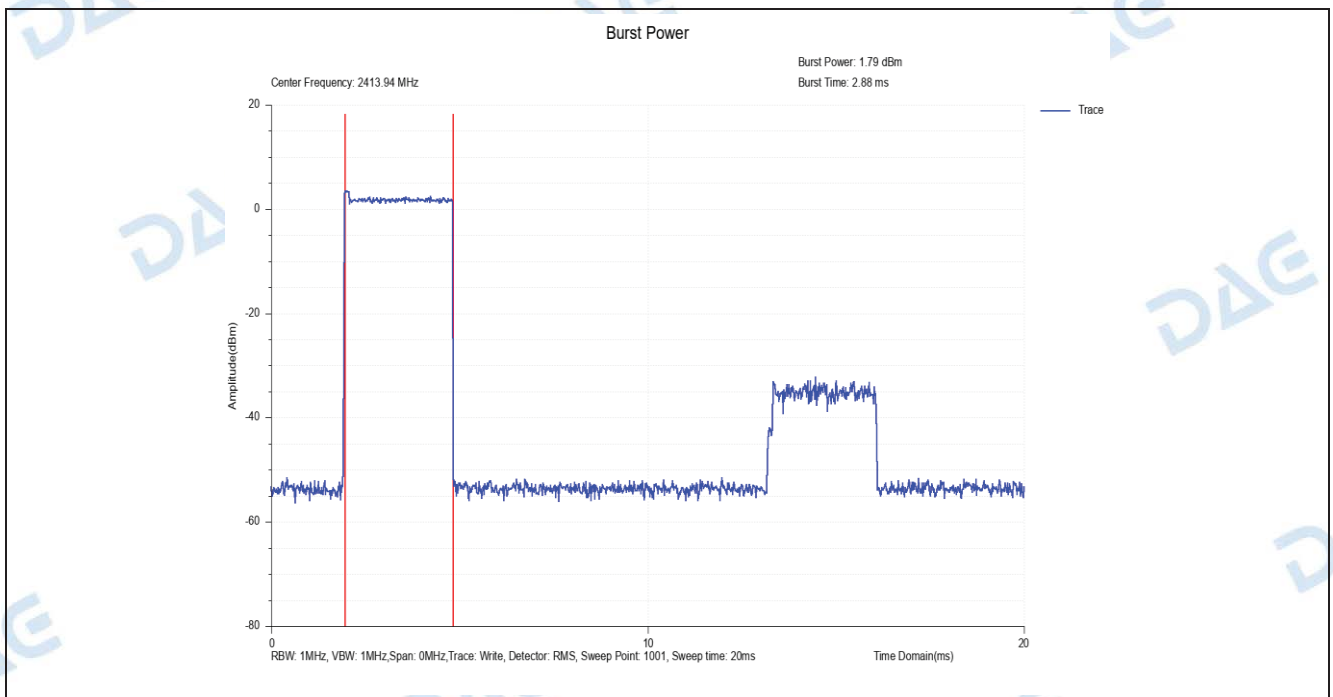
### 2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2402



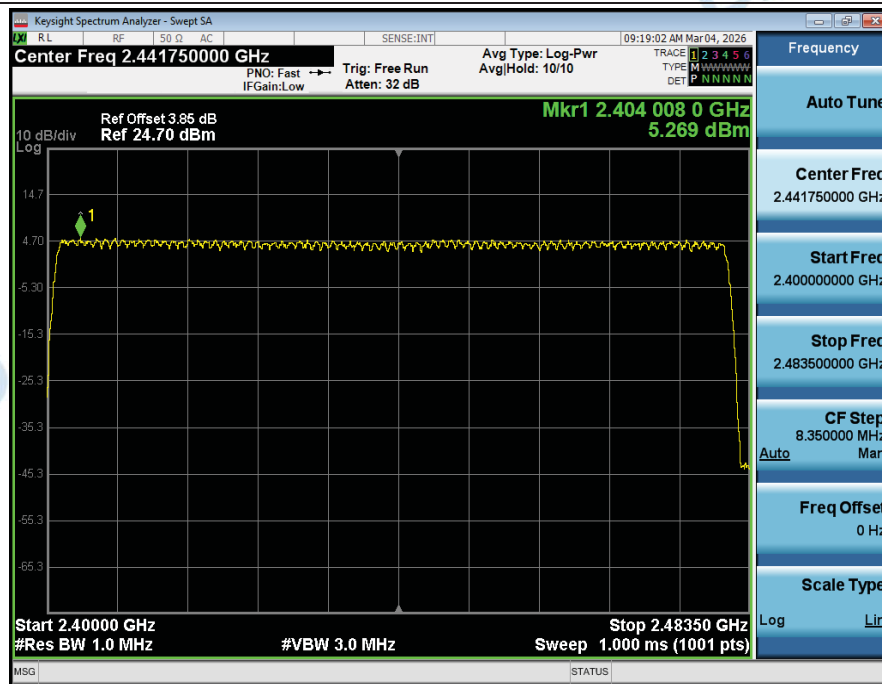
### 1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2441



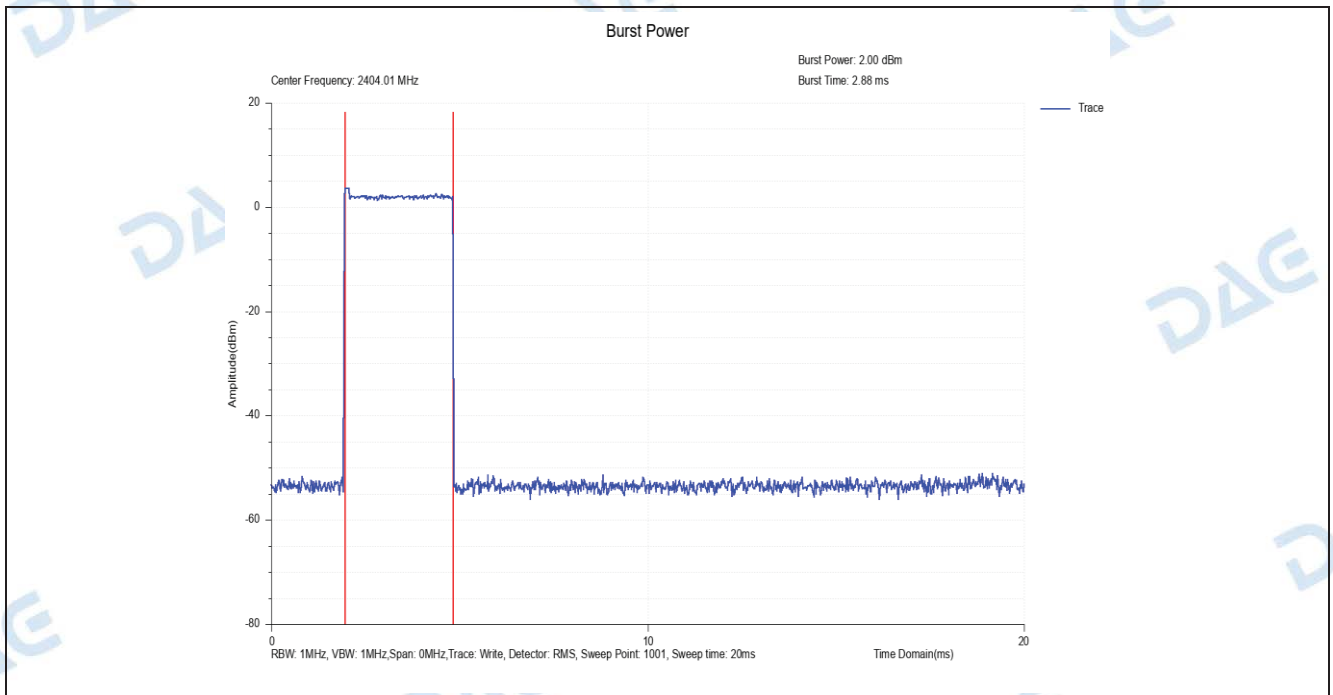
### 2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2441



### 1\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2480



### 2\_Antena\_Power\_(Hopping)\_NVNT\_ANT1\_3-DH5\_2480



| Condition | Antenna | Mode  | Frequency | Measured Power(dBm/MHz) | Antenna Gain(dBi) | EIRP(dBm/MHz) | EIRP Limit(dBm/MHz) | Result          |
|-----------|---------|-------|-----------|-------------------------|-------------------|---------------|---------------------|-----------------|
| NVNT      | ANT1    | 1-DH5 | 2402.00   | -15.60                  | 4.76              | -10.84        | 6.91                | Not Application |
| NVNT      | ANT1    | 1-DH5 | 2441.00   | -15.58                  | 4.76              | -10.82        | 6.91                | Not Application |
| NVNT      | ANT1    | 1-DH5 | 2480.00   | -15.82                  | 4.76              | -11.06        | 6.91                | Not Application |
| NVNT      | ANT1    | 2-DH5 | 2402.00   | -16.48                  | 4.76              | -11.72        | 6.91                | Not Application |
| NVNT      | ANT1    | 2-DH5 | 2441.00   | -16.61                  | 4.76              | -11.85        | 6.91                | Not Application |
| NVNT      | ANT1    | 2-DH5 | 2480.00   | -16.55                  | 4.76              | -11.79        | 6.91                | Not Application |
| NVNT      | ANT1    | 3-DH5 | 2402.00   | -16.67                  | 4.76              | -11.91        | 6.91                | Not Application |
| NVNT      | ANT1    | 3-DH5 | 2441.00   | -16.77                  | 4.76              | -12.01        | 6.91                | Not Application |
| NVNT      | ANT1    | 3-DH5 | 2480.00   | -16.56                  | 4.76              | -11.80        | 6.91                | Not Application |

#### 4. Spurious Emissions

| Condition | Antenna | Mode  | Frequency(MHz) | Frequency Area(MHz)      | RBW(kHz) | Spur. Fre.(MHz) | Spur. Level(dBm/MHz) | Limit(dBm/MHz) | Spur. Level  | Limit     | Result |
|-----------|---------|-------|----------------|--------------------------|----------|-----------------|----------------------|----------------|--------------|-----------|--------|
| NVNT      | ANT1    | 1-DH5 | Hopping        | 30.00~2387.00            | 1000     | 1710.54         | -47.49               | -26            | 0.0178μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2387.00~2400.00          | 1000     | 2400.00         | -37.64               | -16            | 0.1723μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2400.00~2483.50          | /        | /               | /                    | /              | /            | /         | /      |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2483.50~2496.50          | 1000     | 2486.71         | -53.35               | -16            | 0.0046μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2496.50~12750.00         | 1000     | 2517.01         | -63.34               | -26            | 0.0004μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2402.00        | 30.000000~2387.000000    | 1000     | 2335.15         | -52.97               | -26            | 0.0050μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2402.00        | 2387.000000~2400.000000  | 1000     | 2399.99         | -37.47               | -16            | 0.1790μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2402.00        | 2400.000000~2483.500000  | /        | /               | /                    | /              | /            | /         | /      |
| NVNT      | ANT1    | 1-DH5 | 2402.00        | 2483.500000~2496.500000  | 1000     | 2491.35         | -53.84               | -16            | 0.0041μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2402.00        | 2496.500000~12750.000000 | 1000     | 5808.38         | -52.08               | -26            | 0.0061μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 30.00~2387.00            | 1000     | 1764.75         | -54.47               | -26            | 0.0035μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2387.00~2400.00          | 1000     | 2400.00         | -38.53               | -16            | 0.1402μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2400.00~2483.50          | /        | /               | /                    | /              | /            | /         | /      |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2483.50~2496.50          | 1000     | 2483.70         | -53.21               | -16            | 0.0047μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | Hopping        | 2496.50~12750.00         | 1000     | 3439.82         | -56.59               | -26            | 0.0021μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2441.00        | 30.000000~2387.000000    | 1000     | 1762.39         | -47.08               | -26            | 0.0195μW/MHz | 2.5μW/MHz | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2441.00        | 2387.000000~2400.000000  | 1000     | 2392.14         | -53.65               | -16            | 0.0043μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-DH5 | 2441.00        | 2400.000000~2483.500000  | /        | /               | /                    | /              | /            | /         | /      |
| NVNT      | ANT1    | 1-DH5 | 2441.00        | 2483.500000~2496.500000  | 1000     | 2487.30         | -53.74               | -16            | 0.0042μW/MHz | 25μW/MHz  | Pass   |
| NVNT      | ANT1    | 1-    | 2441.00        | 2496.500000~12750.00     | 1000     | 7038.8          | -52.43               | -26            | 0.0057μW/MHz | 2.5μW/MHz | Pass   |

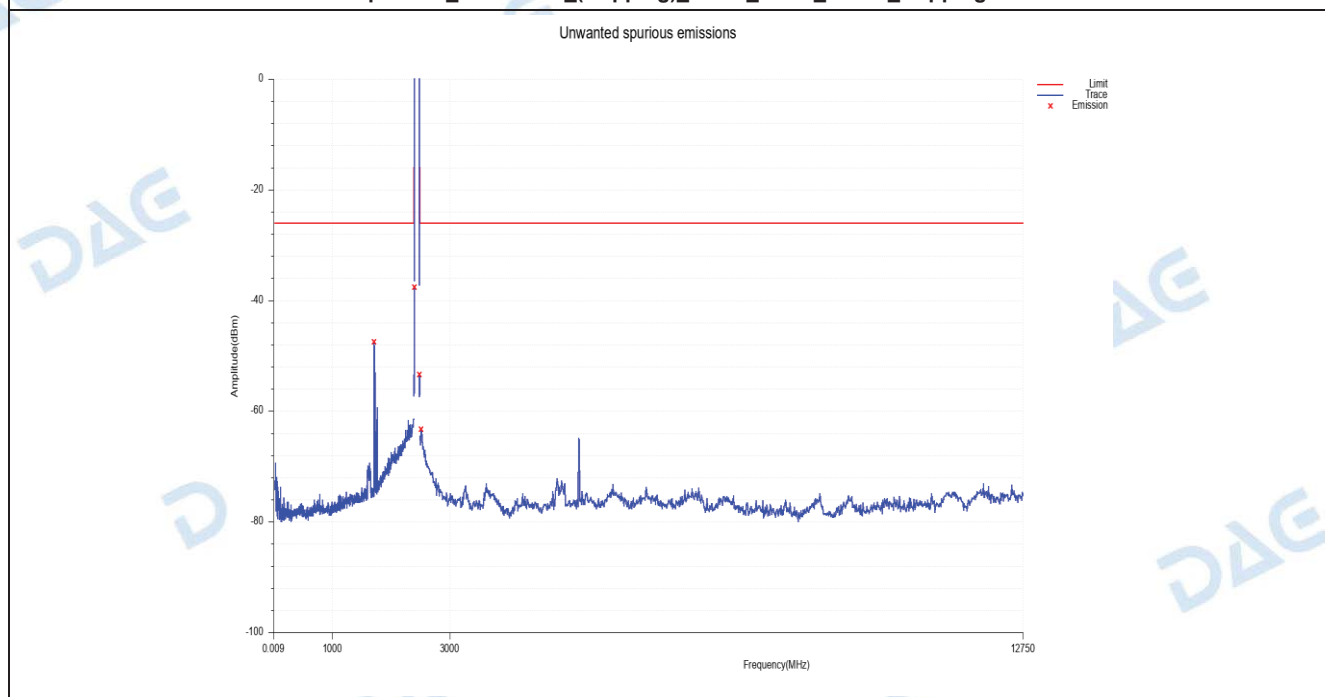
|      |      |        |         |                          |      |          |        |     |              |           |      |
|------|------|--------|---------|--------------------------|------|----------|--------|-----|--------------|-----------|------|
|      |      | DH 5   |         | 000000                   |      | 0        |        |     | MHz          | MHz       |      |
| NVNT | ANT1 | 1-DH 5 | Hopping | 30.00~2387.00            | 1000 | 1755.32  | -57.30 | -26 | 0.0018μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 1-DH 5 | Hopping | 2387.00~2400.00          | 1000 | 2399.99  | -38.66 | -16 | 0.1360μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 1-DH 5 | Hopping | 2400.00~2483.50          | /    | /        | /      | /   | /            | /         | /    |
| NVNT | ANT1 | 1-DH 5 | Hopping | 2483.50~2496.50          | 1000 | 2492.05  | -53.52 | -16 | 0.0044μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 1-DH 5 | Hopping | 2496.50~12750.00         | 1000 | 2496.50  | -64.76 | -26 | 0.0003μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 1-DH 5 | 2480.00 | 30.000000~2387.000000    | 1000 | 2384.64  | -53.30 | -26 | 0.0046μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 1-DH 5 | 2480.00 | 2387.000000~2400.000000  | 1000 | 2398.92  | -53.46 | -16 | 0.0045μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 1-DH 5 | 2480.00 | 2400.000000~2483.500000  | /    | /        | /      | /   | /            | /         | /    |
| NVNT | ANT1 | 1-DH 5 | 2480.00 | 2483.500000~2496.500000  | 1000 | 2483.60  | -48.93 | -16 | 0.0127μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 1-DH 5 | 2480.00 | 2496.500000~12750.000000 | 1000 | 3665.40  | -51.91 | -26 | 0.0064μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 2-DH 5 | Hopping | 30.00~2387.00            | 1000 | 1755.32  | -49.39 | -26 | 0.0115μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 2-DH 5 | Hopping | 2387.00~2400.00          | 1000 | 2400.00  | -22.42 | -16 | 5.7262μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 2-DH 5 | Hopping | 2400.00~2483.50          | /    | /        | /      | /   | /            | /         | /    |
| NVNT | ANT1 | 2-DH 5 | Hopping | 2483.50~2496.50          | 1000 | 2483.53  | -47.50 | -16 | 0.0177μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 2-DH 5 | Hopping | 2496.50~12750.00         | 1000 | 2496.50  | -55.15 | -26 | 0.0030μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 2-DH 5 | 2402.00 | 30.000000~2387.000000    | 1000 | 2363.43  | -52.47 | -26 | 0.0056μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 2-DH 5 | 2402.00 | 2387.000000~2400.000000  | 1000 | 2400.00  | -29.42 | -16 | 1.1417μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 2-DH 5 | 2402.00 | 2400.000000~2483.500000  | /    | /        | /      | /   | /            | /         | /    |
| NVNT | ANT1 | 2-DH 5 | 2402.00 | 2483.500000~2496.500000  | 1000 | 2486.31  | -53.51 | -16 | 0.0044μW/MHz | 25μW/MHz  | Pass |
| NVNT | ANT1 | 2-DH 5 | 2402.00 | 2496.500000~12750.000000 | 1000 | 11581.10 | -52.81 | -26 | 0.0052μW/MHz | 2.5μW/MHz | Pass |
| NVNT | ANT1 | 2-DH   | Hopping | 30.00~2387.00            | 1000 | 1755.32  | -52.64 | -26 | 0.0054μW/MHz | 2.5μW/MHz | Pass |

|      |      |           |         |                              |      |             |        |     |                  |               |      |
|------|------|-----------|---------|------------------------------|------|-------------|--------|-----|------------------|---------------|------|
|      |      | 5         |         |                              |      |             |        |     |                  |               |      |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2387.00~2400.00              | 1000 | 2400.0<br>0 | -30.26 | -16 | 0.9412μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2400.00~2483.50              | /    | /           | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2483.50~2496.50              | 1000 | 2485.1<br>9 | -53.49 | -16 | 0.0044μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2496.50~12750.00             | 1000 | 2496.5<br>0 | -63.75 | -26 | 0.0004μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2441.00 | 30.000000~2387.000<br>000    | 1000 | 2066.4<br>5 | -53.17 | -26 | 0.0048μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2441.00 | 2387.000000~2400.0<br>00000  | 1000 | 2394.8<br>3 | -53.54 | -16 | 0.0044μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2441.00 | 2400.000000~2483.5<br>00000  | /    | /           | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 2-DH<br>5 | 2441.00 | 2483.500000~2496.5<br>00000  | 1000 | 2488.6<br>0 | -53.47 | -16 | 0.0044μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2441.00 | 2496.500000~12750.<br>000000 | 1000 | 5818.6<br>3 | -52.36 | -26 | 0.0058μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 30.00~2387.00                | 1000 | 1755.3<br>2 | -60.50 | -26 | 0.0008μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2387.00~2400.00              | 1000 | 2400.0<br>0 | -29.33 | -16 | 1.1660μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2400.00~2483.50              | /    | /           | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2483.50~2496.50              | 1000 | 2493.0<br>9 | -53.02 | -16 | 0.0049μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | Hopping | 2496.50~12750.00             | 1000 | 2496.5<br>0 | -63.05 | -26 | 0.0004μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2480.00 | 30.000000~2387.000<br>000    | 1000 | 1755.3<br>2 | -49.56 | -26 | 0.0110μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2480.00 | 2387.000000~2400.0<br>00000  | 1000 | 2387.6<br>9 | -53.24 | -16 | 0.0047μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2480.00 | 2400.000000~2483.5<br>00000  | /    | /           | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 2-DH<br>5 | 2480.00 | 2483.500000~2496.5<br>00000  | 1000 | 2483.5<br>0 | -51.85 | -16 | 0.0065μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 2-DH<br>5 | 2480.00 | 2496.500000~12750.<br>000000 | 1000 | 5726.3<br>5 | -52.19 | -26 | 0.0060μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 30.00~2387.00                | 1000 | 829.02      | -54.64 | -26 | 0.0034μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2387.00~2400.00              | 1000 | 2400.0<br>0 | -29.94 | -16 | 1.0143μW/<br>MHz | 25μW/M<br>Hz  | Pass |

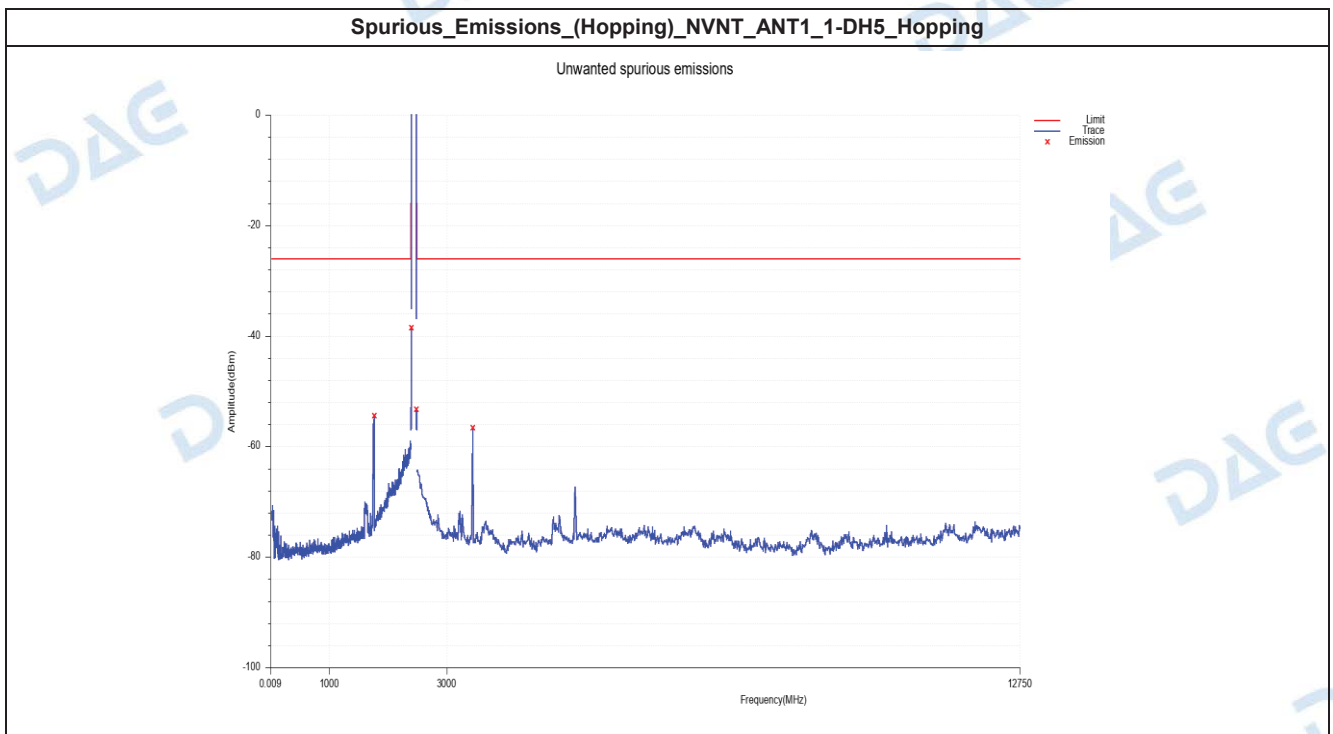
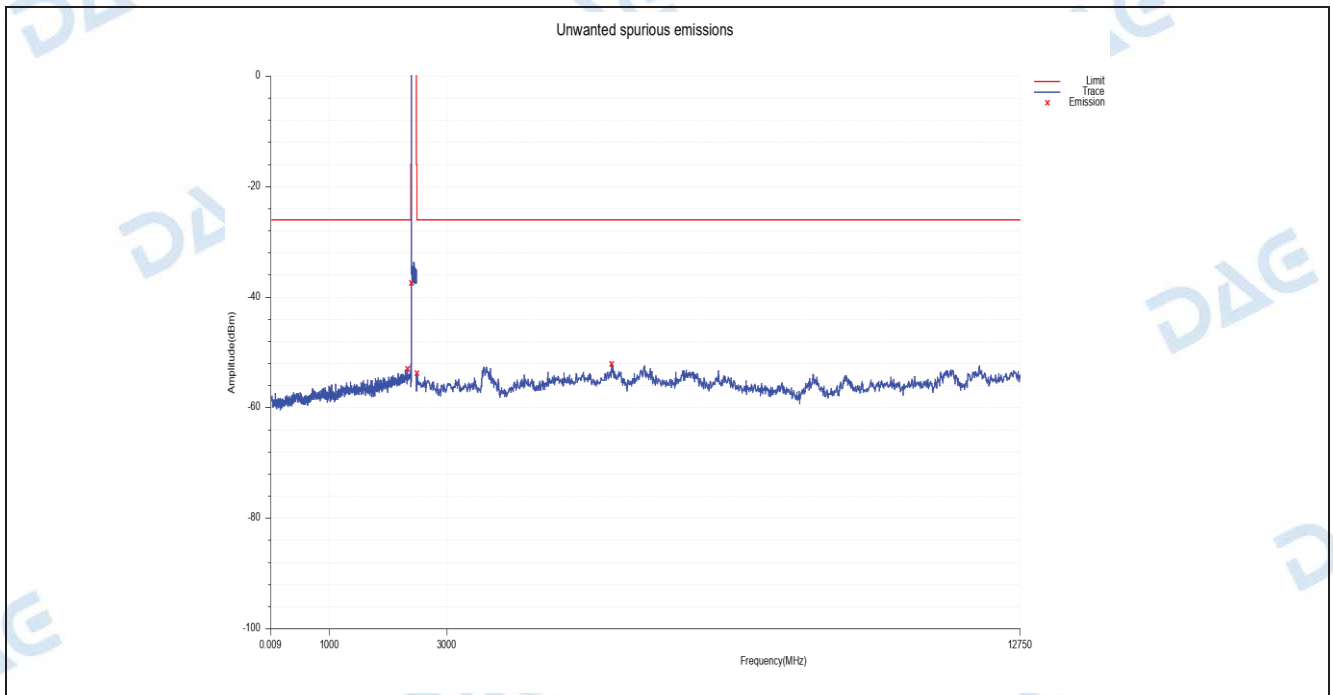
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|------|------|-----------|---------|------------------------------|------|--------------|--------|-----|------------------|---------------|------|
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2400.00~2483.50              | /    | /            | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2483.50~2496.50              | 1000 | 2487.1<br>4  | -53.22 | -16 | 0.0047μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2496.50~12750.00             | 1000 | 3419.3<br>2  | -57.80 | -26 | 0.0016μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2402.00 | 30.000000~2387.000<br>000    | 1000 | 2365.7<br>9  | -51.58 | -26 | 0.0069μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2402.00 | 2387.000000~2400.0<br>00000  | 1000 | 2400.0<br>0  | -28.68 | -16 | 1.3548μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2402.00 | 2400.000000~2483.5<br>00000  | /    | /            | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 3-DH<br>5 | 2402.00 | 2483.500000~2496.5<br>00000  | 1000 | 2490.5<br>2  | -52.71 | -16 | 0.0053μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2402.00 | 2496.500000~12750.<br>000000 | 1000 | 12647.<br>47 | -52.76 | -26 | 0.0052μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 30.00~2387.00                | 1000 | 2342.2<br>2  | -58.13 | -26 | 0.0015μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2387.00~2400.00              | 1000 | 2400.0<br>0  | -29.34 | -16 | 1.1639μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2400.00~2483.50              | /    | /            | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2483.50~2496.50              | 1000 | 2495.8<br>6  | -53.27 | -16 | 0.0047μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2496.50~12750.00             | 1000 | 2496.5<br>0  | -61.53 | -26 | 0.0007μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2441.00 | 30.000000~2387.000<br>000    | 1000 | 2330.4<br>3  | -52.16 | -26 | 0.0060μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2441.00 | 2387.000000~2400.0<br>00000  | 1000 | 2395.8<br>5  | -53.08 | -16 | 0.0049μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2441.00 | 2400.000000~2483.5<br>00000  | /    | /            | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 3-DH<br>5 | 2441.00 | 2483.500000~2496.5<br>00000  | 1000 | 2487.2<br>6  | -52.86 | -16 | 0.0051μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2441.00 | 2496.500000~12750.<br>000000 | 1000 | 6310.8<br>0  | -51.50 | -26 | 0.0070μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 30.00~2387.00                | 1000 | 2382.2<br>9  | -57.33 | -26 | 0.0018μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2387.00~2400.00              | 1000 | 2400.0<br>0  | -30.03 | -16 | 0.9940μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2400.00~2483.50              | /    | /            | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 3-        | Hopping | 2483.50~2496.50              | 1000 | 2486.1       | -51.84 | -16 | 0.0065μW/<br>MHz | 25μW/M        | Pass |

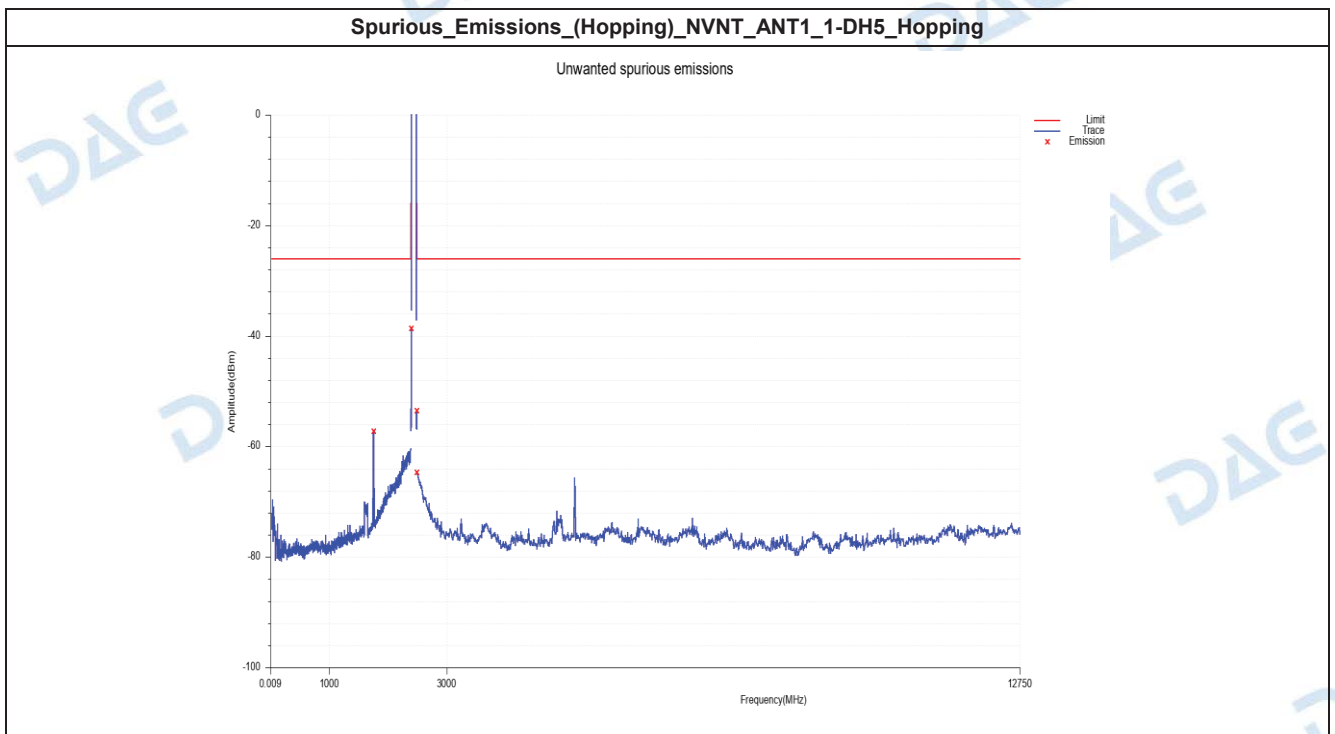
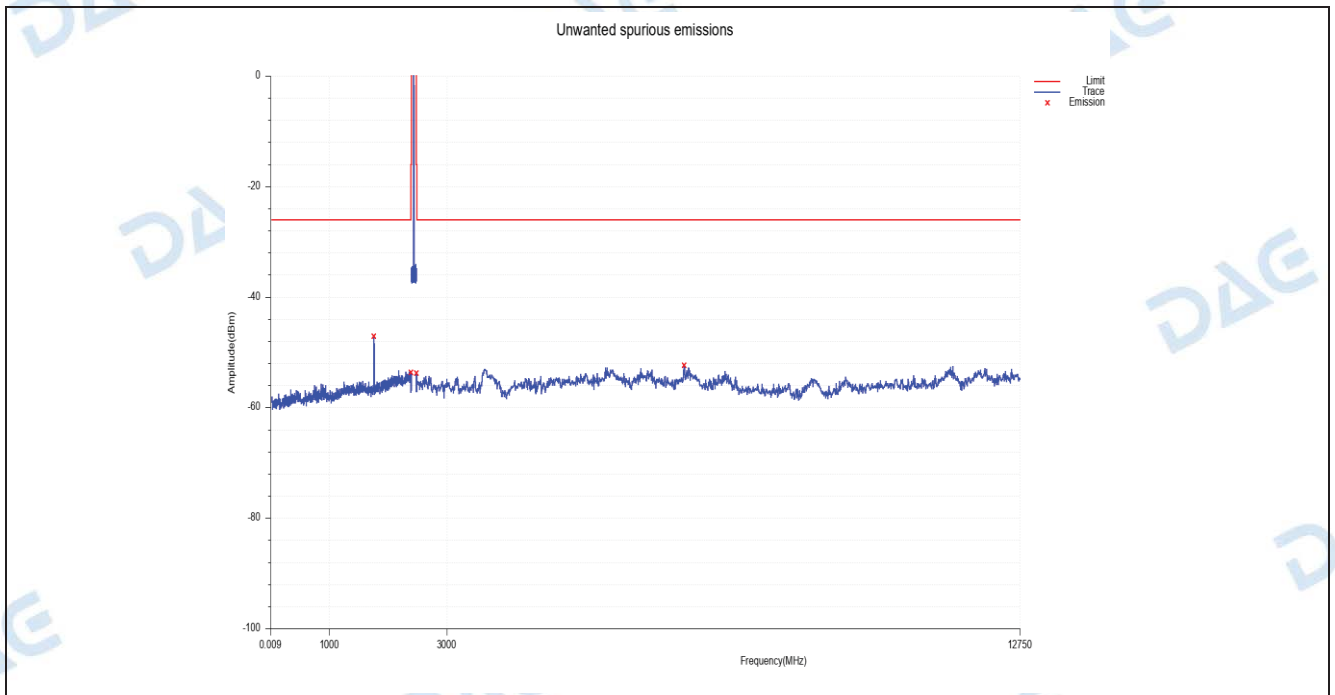
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|------|------|-----------|---------|------------------------------|------|-------------|--------|-----|------------------|---------------|------|
|      |      | DH<br>5   |         |                              |      | 9           |        |     | MHz              | Hz            |      |
| NVNT | ANT1 | 3-DH<br>5 | Hopping | 2496.50~12750.00             | 1000 | 2506.7<br>5 | -61.79 | -26 | 0.0006μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2480.00 | 30.000000~2387.000<br>000    | 1000 | 2276.2<br>2 | -52.24 | -26 | 0.0059μW/<br>MHz | 2.5μW/<br>MHz | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2480.00 | 2387.000000~2400.0<br>00000  | 1000 | 2392.9<br>8 | -52.76 | -16 | 0.0052μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2480.00 | 2400.000000~2483.5<br>00000  | /    | /           | /      | /   | /                | /             | /    |
| NVNT | ANT1 | 3-DH<br>5 | 2480.00 | 2483.500000~2496.5<br>00000  | 1000 | 2484.0<br>5 | -50.72 | -16 | 0.0084μW/<br>MHz | 25μW/M<br>Hz  | Pass |
| NVNT | ANT1 | 3-DH<br>5 | 2480.00 | 2496.500000~12750.<br>000000 | 1000 | 7059.3<br>1 | -52.05 | -26 | 0.0062μW/<br>MHz | 2.5μW/<br>MHz | Pass |

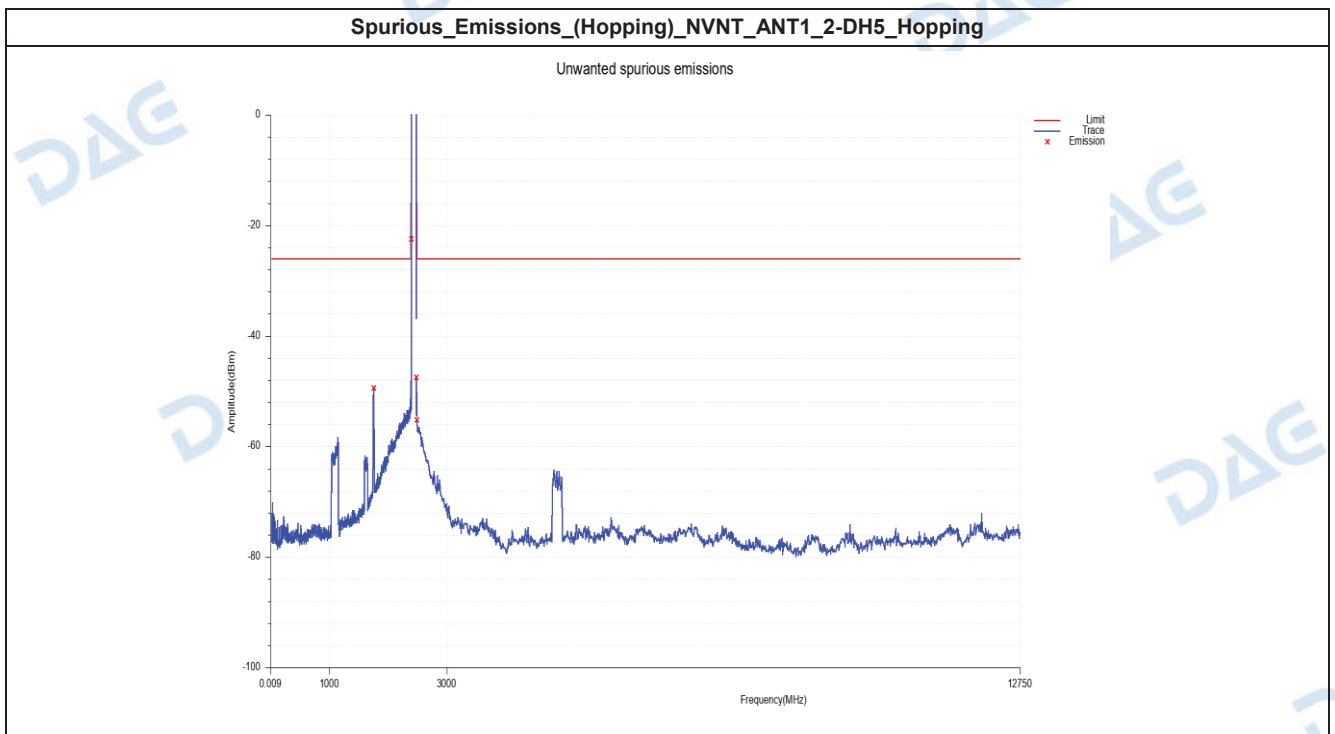
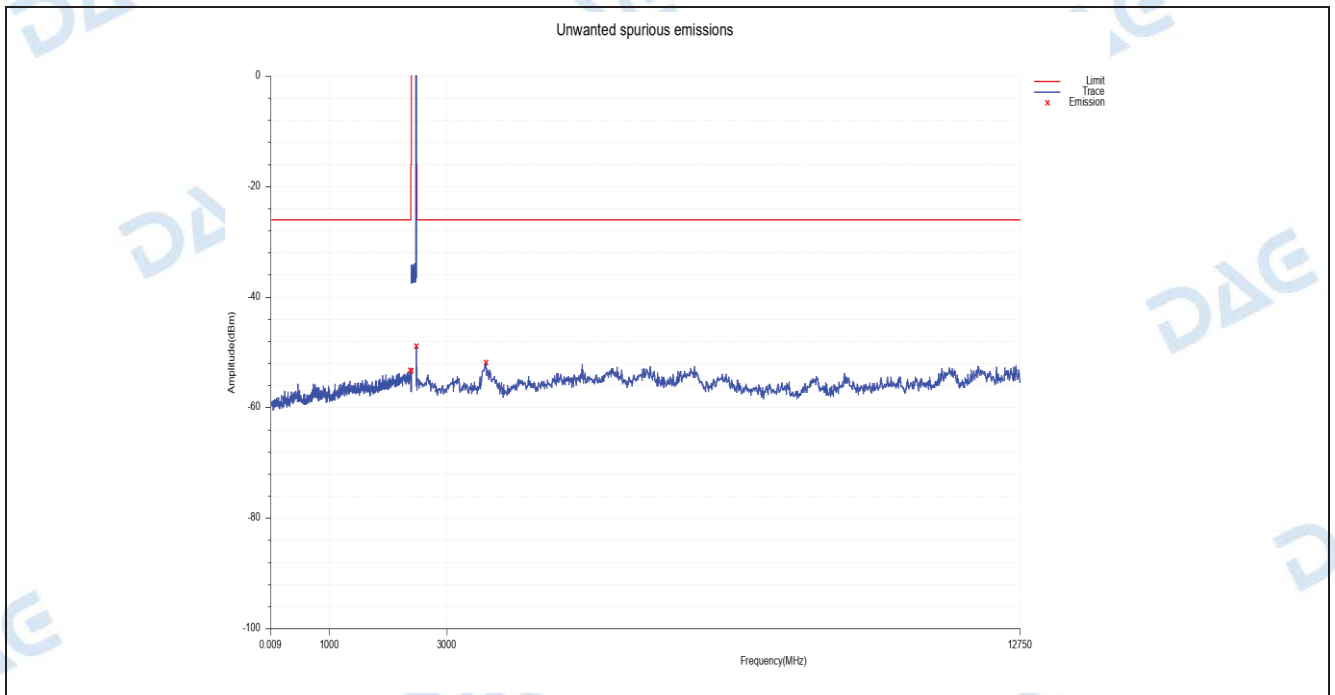
Spurious\_Emissions\_(Hopping)\_NVNT\_ANT1\_1-DH5\_Hopping

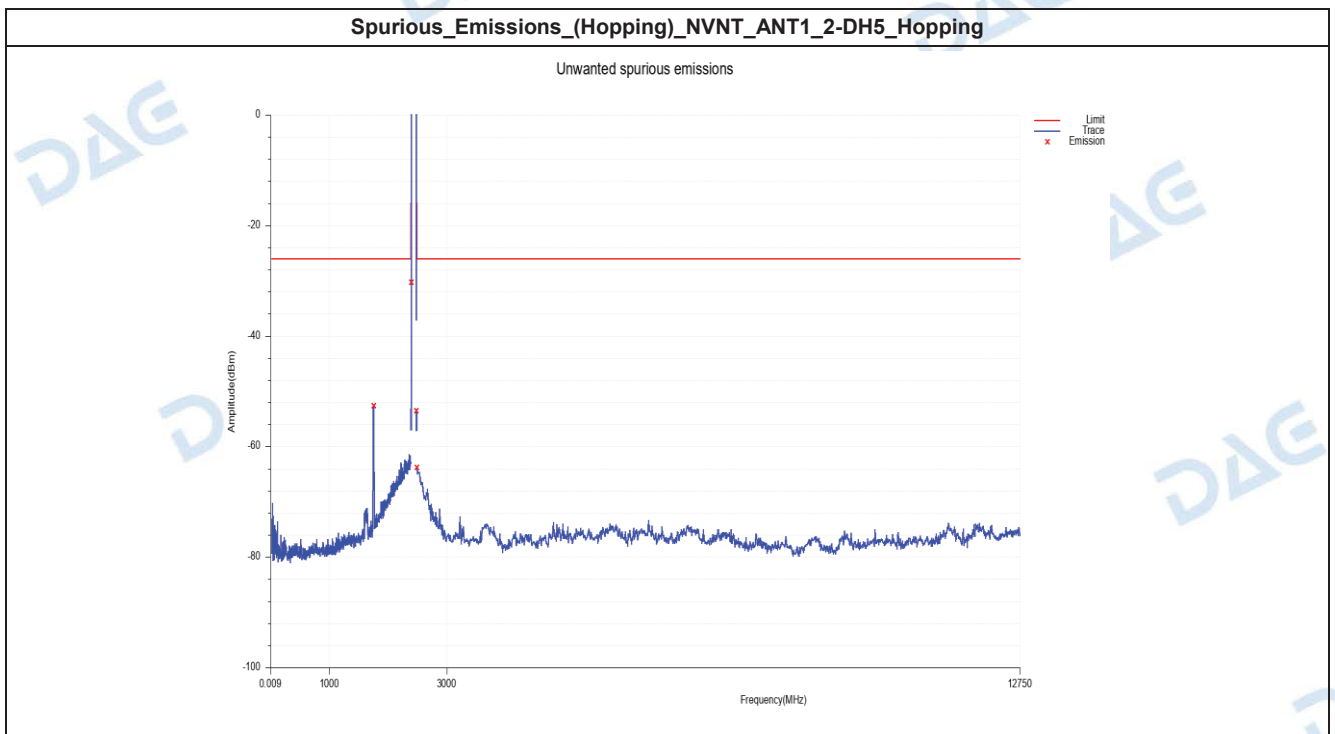
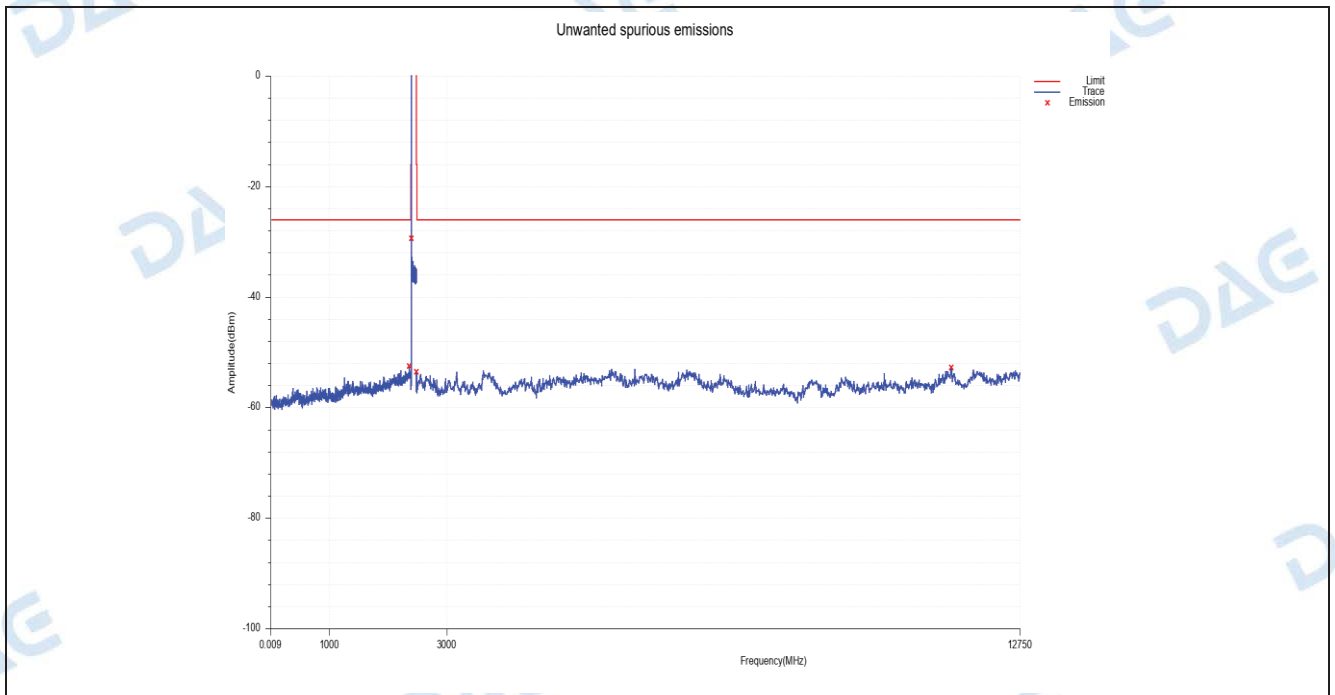


Spurious\_Emissions\_NVNT\_ANT1\_1-DH5\_2402

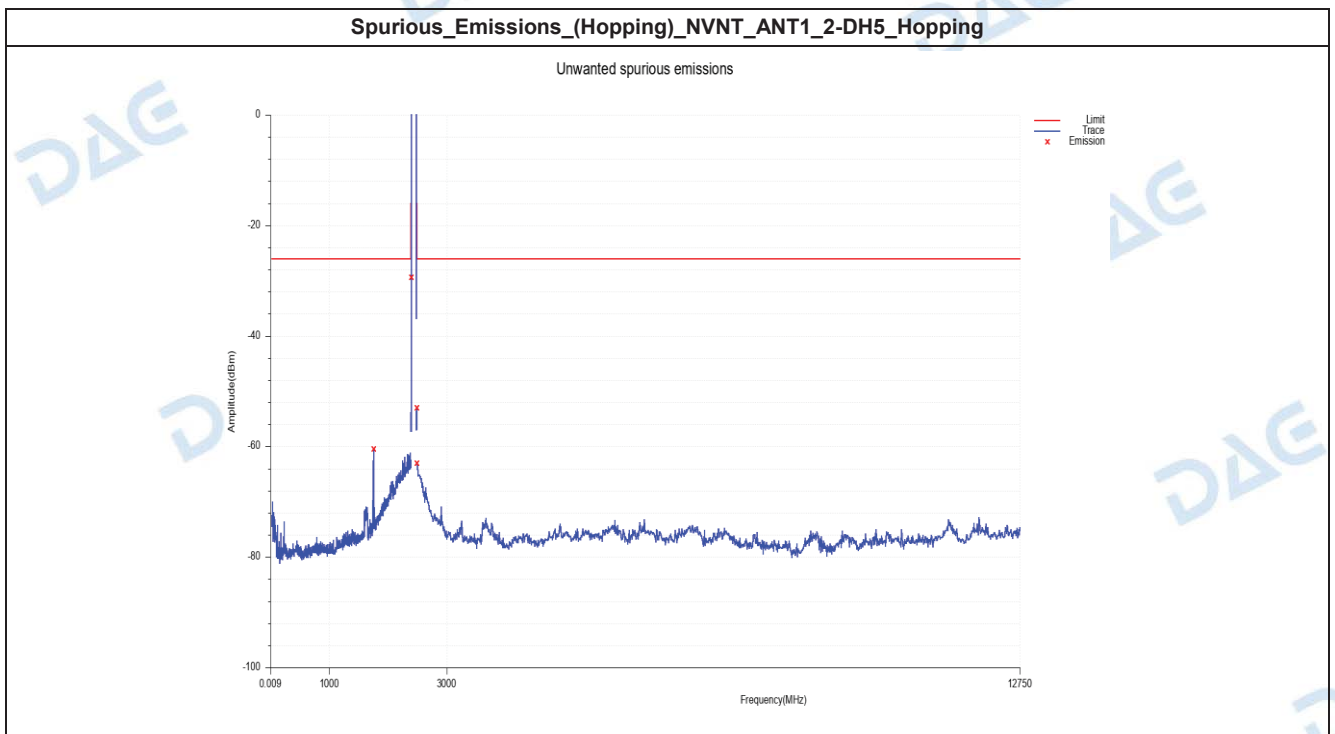
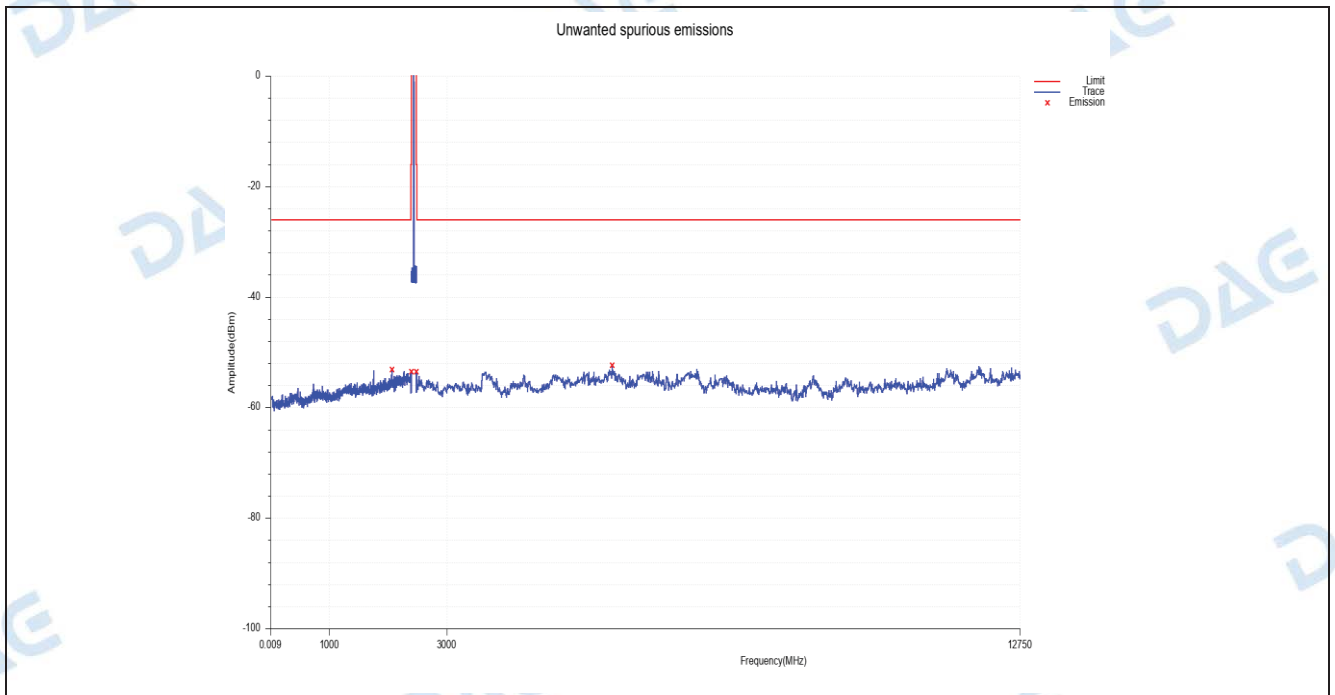




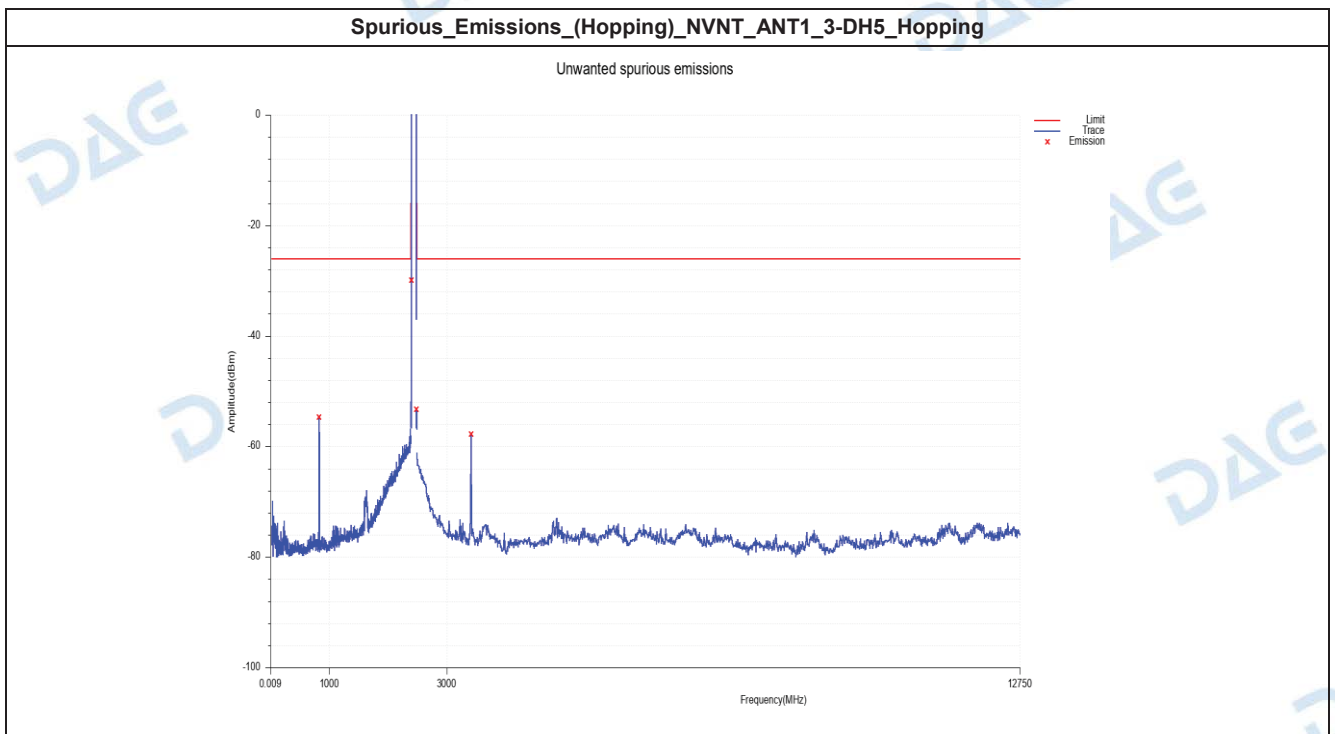
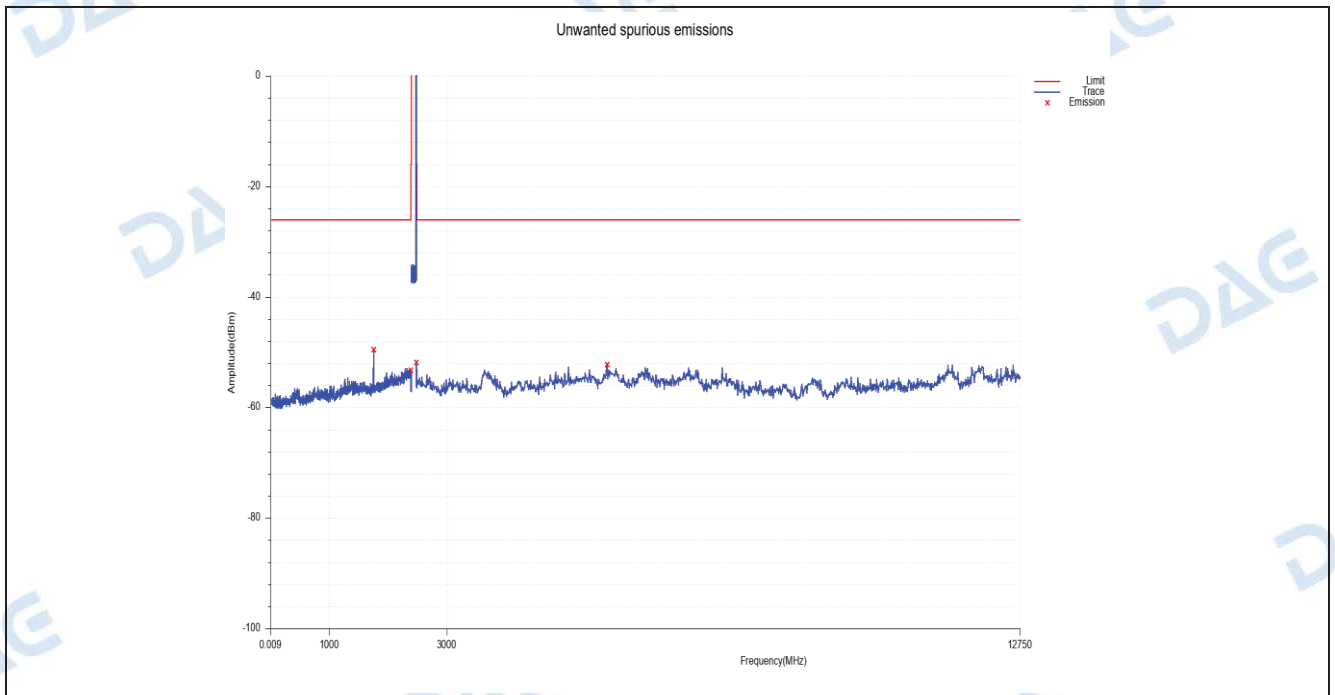




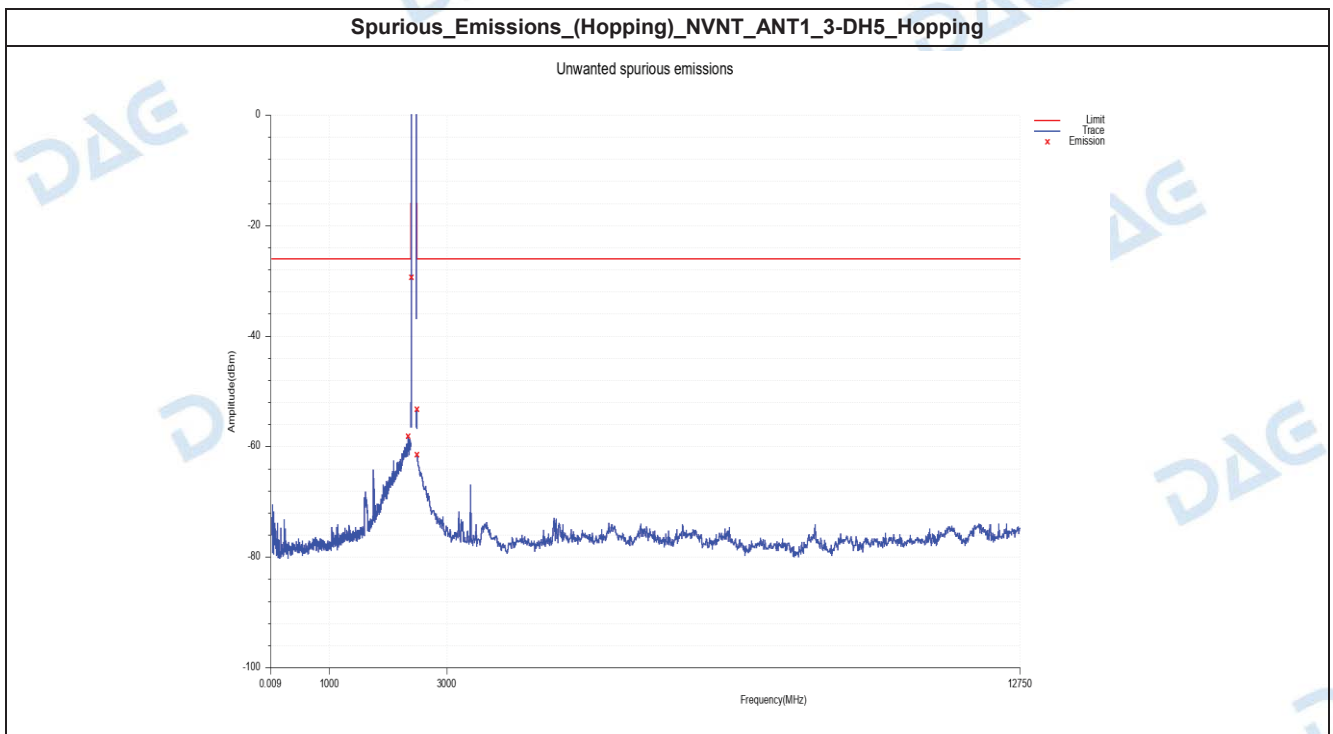
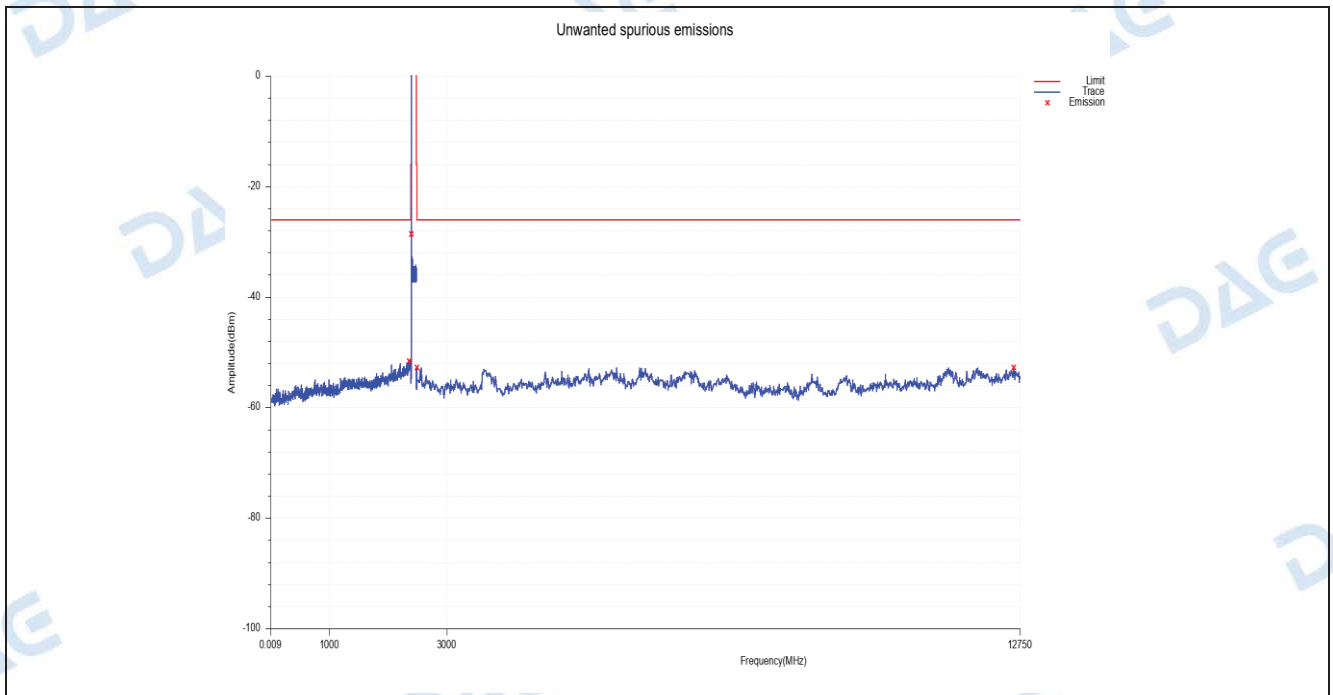
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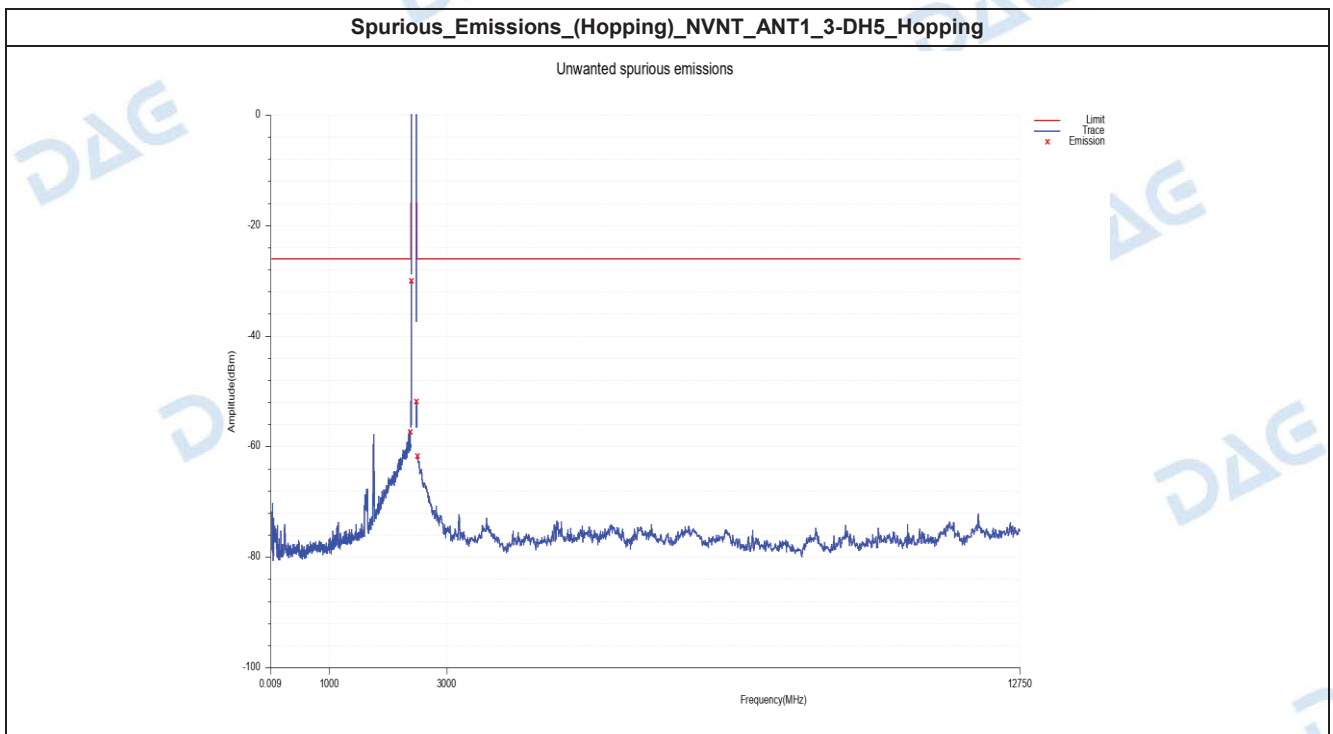
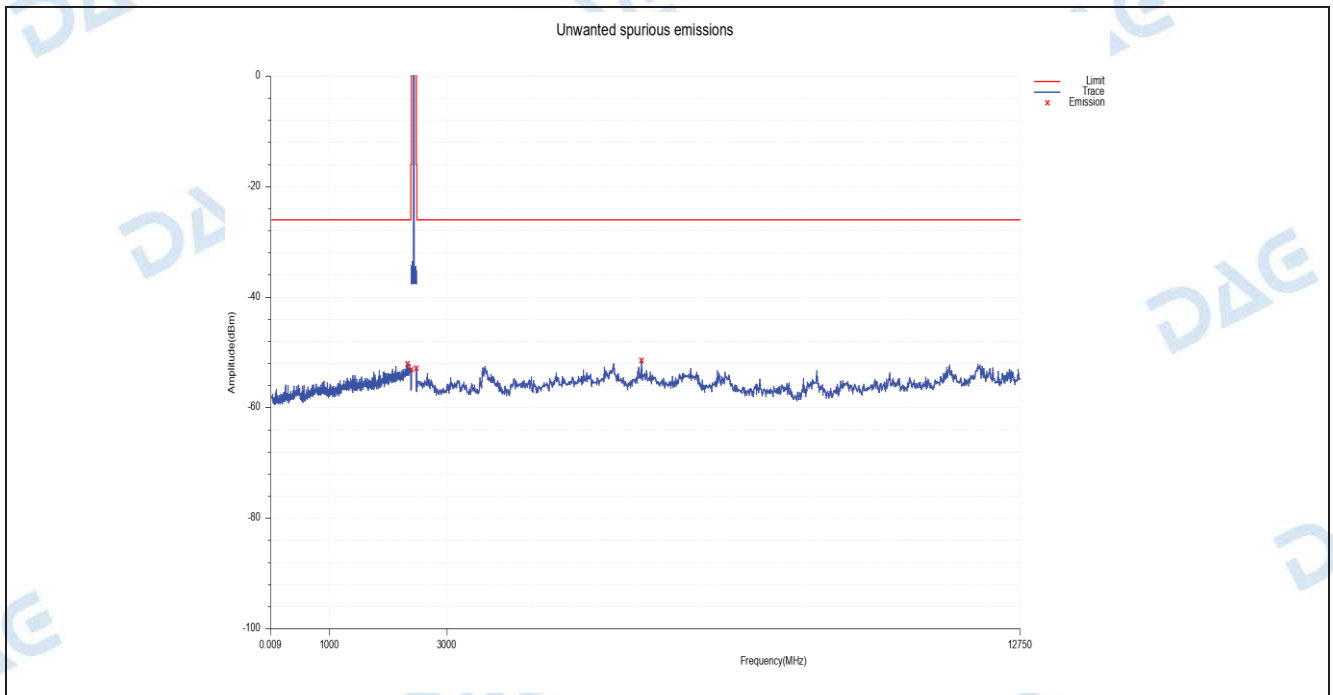
**Spurious\_Emissions\_NVNT\_ANT1\_2-DH5\_2480**



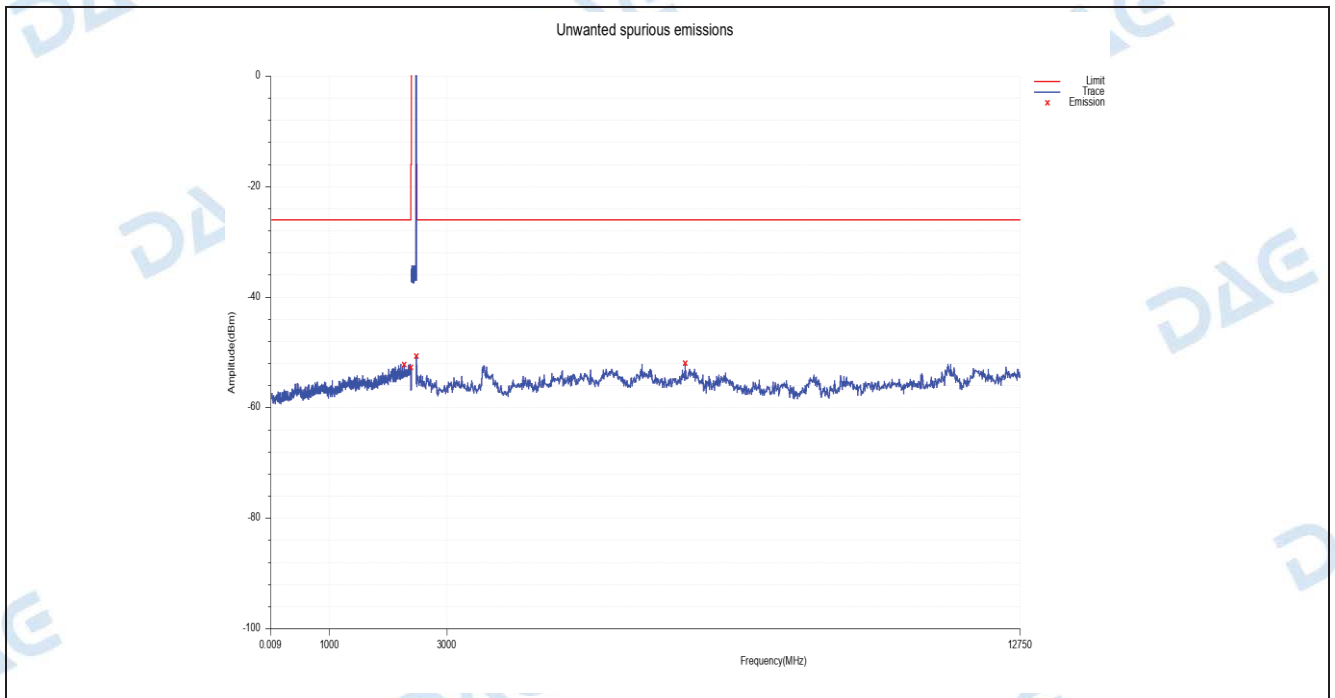
**Spurious\_Emissions\_NVNT\_ANT1\_3-DH5\_2402**



**Spurious\_Emissions\_NVNT\_ANT1\_3-DH5\_2441**



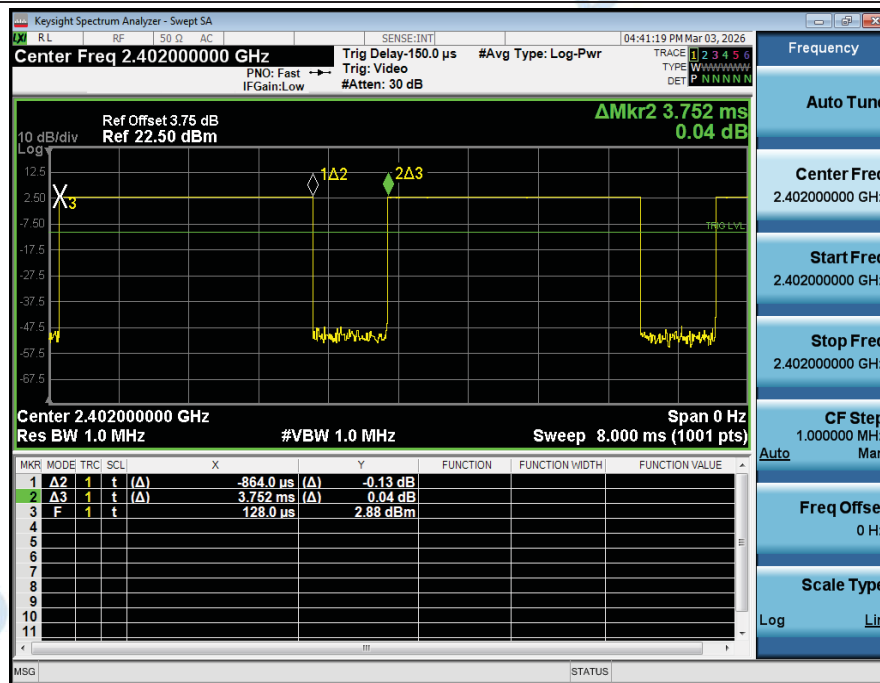
**Spurious\_Emissions\_NVNT\_ANT1\_3-DH5\_2480**



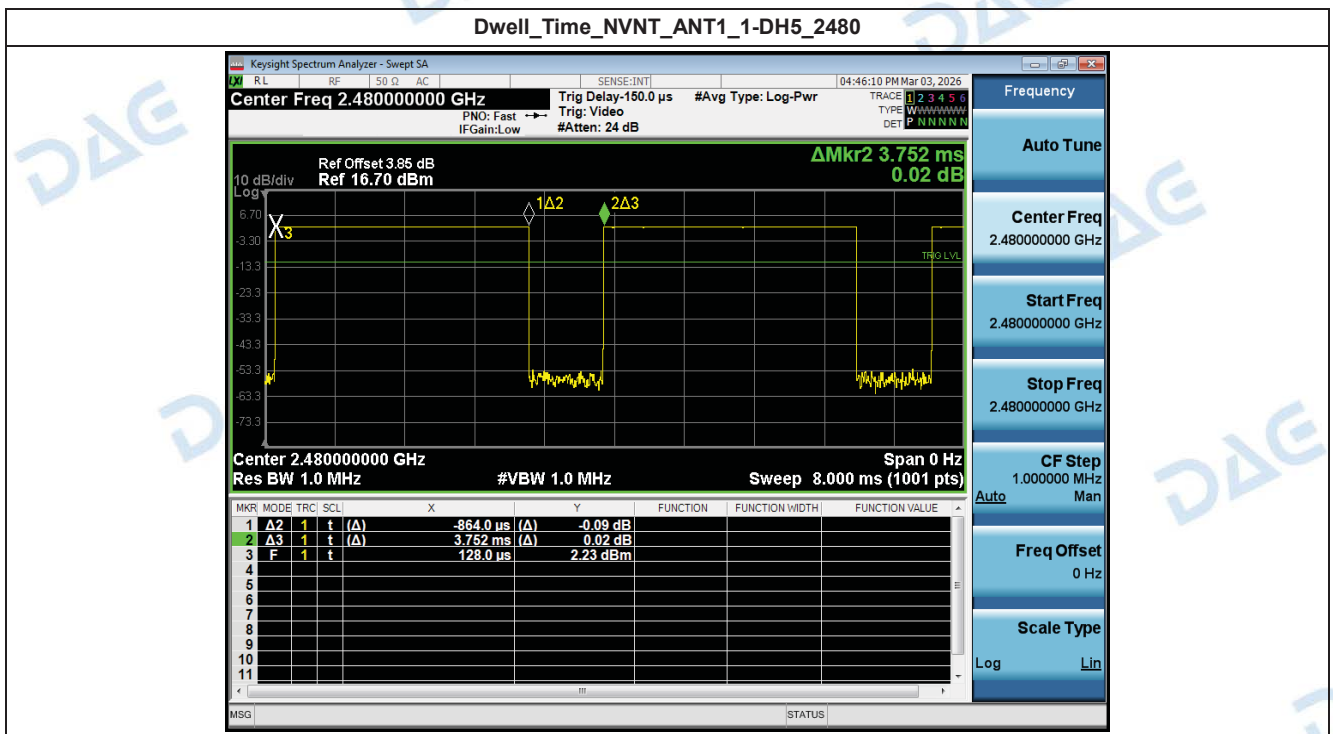
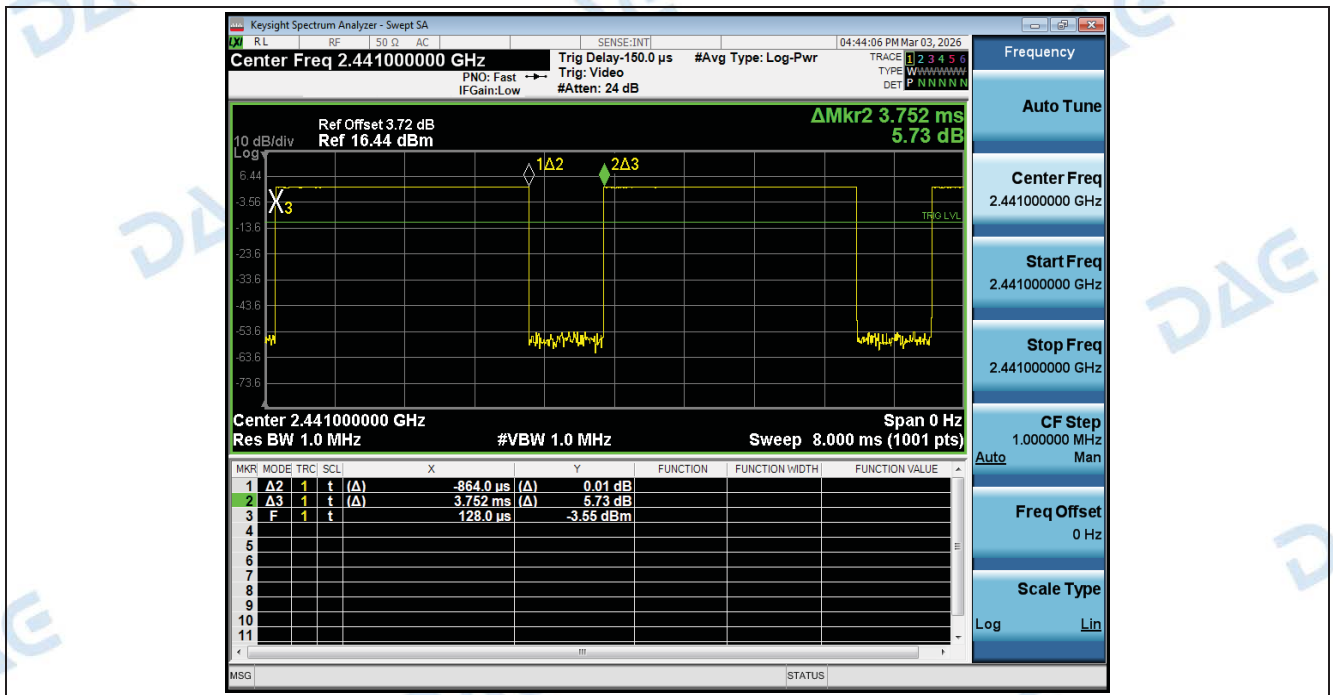
## 5. Dwell Time

| Condition | Antenna | Modulation | mode    | Burst Time(ms) | Burst Cycle(ms) | Dwell Time(s) | Limit(s) | Result |
|-----------|---------|------------|---------|----------------|-----------------|---------------|----------|--------|
| NVNT      | ANT1    | 1-DH5      | Hopping | 2.888          | 3.752           | 0.280         | 0.4      | Pass   |
| NVNT      | ANT1    | 1-DH5      | Hopping | 2.888          | 3.752           | 0.280         | 0.4      | Pass   |
| NVNT      | ANT1    | 1-DH5      | Hopping | 2.888          | 3.752           | 0.280         | 0.4      | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 2.896          | 3.752           | 0.280         | 0.4      | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 2.888          | 3.752           | 0.280         | 0.4      | Pass   |
| NVNT      | ANT1    | 2-DH5      | Hopping | 2.888          | 3.752           | 0.281         | 0.4      | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 1.352          | 2.208           | 0.222         | 0.4      | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 2.896          | 3.752           | 0.281         | 0.4      | Pass   |
| NVNT      | ANT1    | 3-DH5      | Hopping | 2.896          | 3.752           | 0.280         | 0.4      | Pass   |

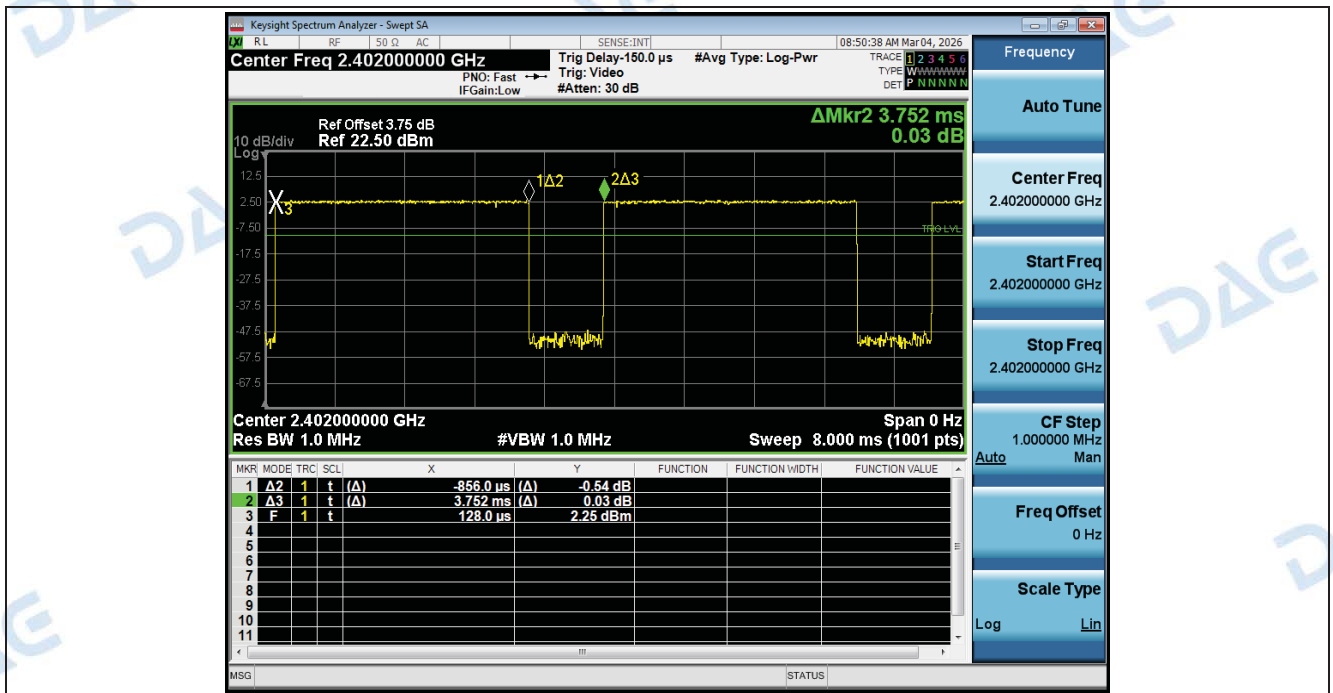
Dwell\_Time\_NVNT\_ANT1\_1-DH5\_2402



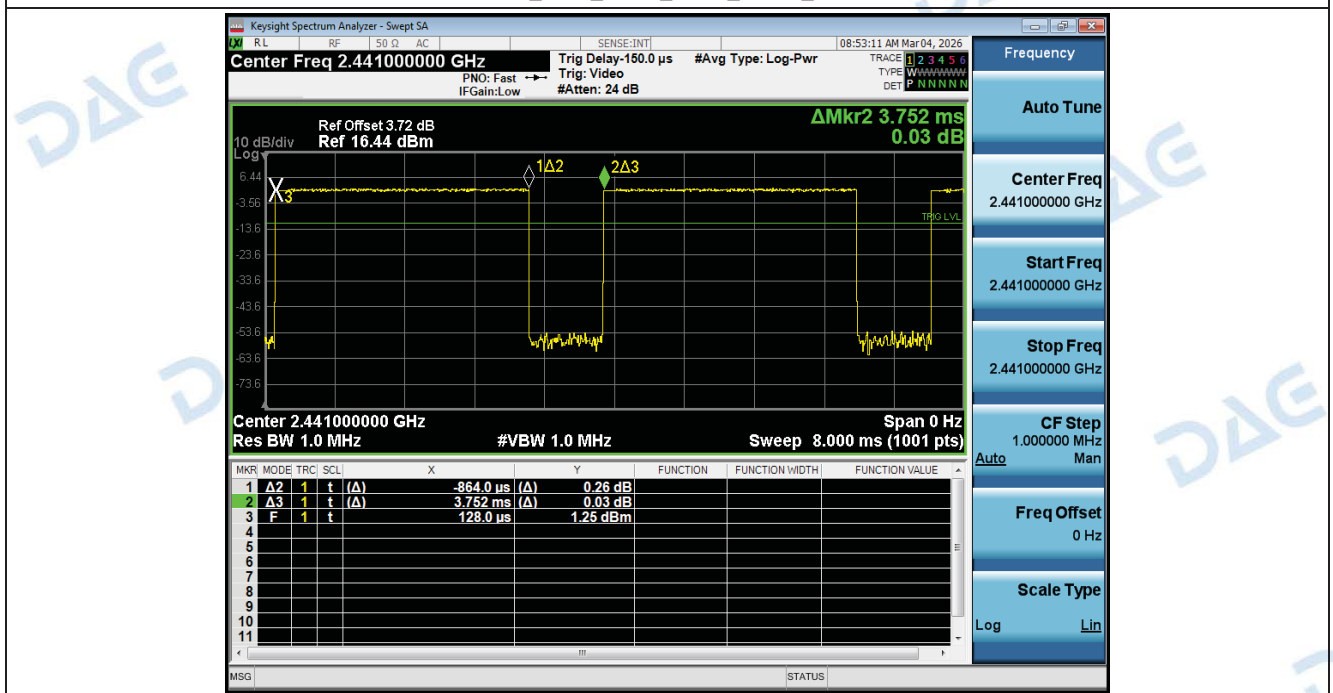
Dwell\_Time\_NVNT\_ANT1\_1-DH5\_2441



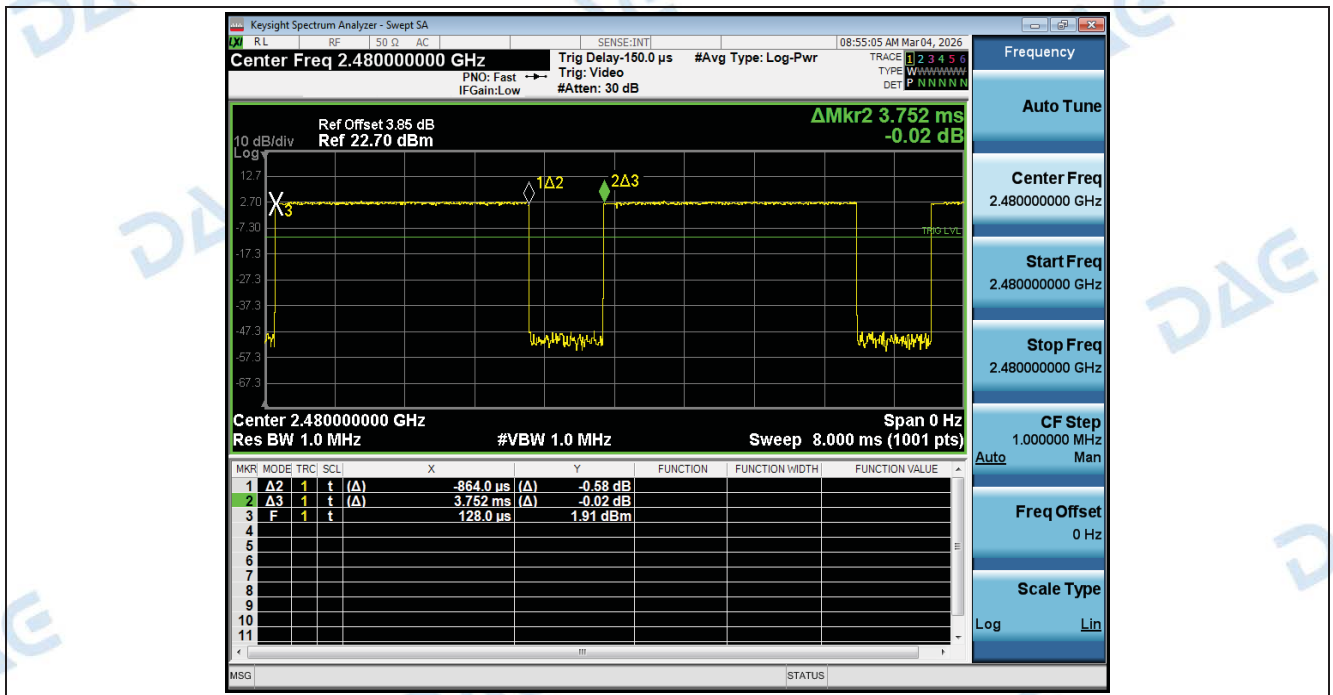
Dwell\_Time\_NVNT\_ANT1\_2-DH5\_2402



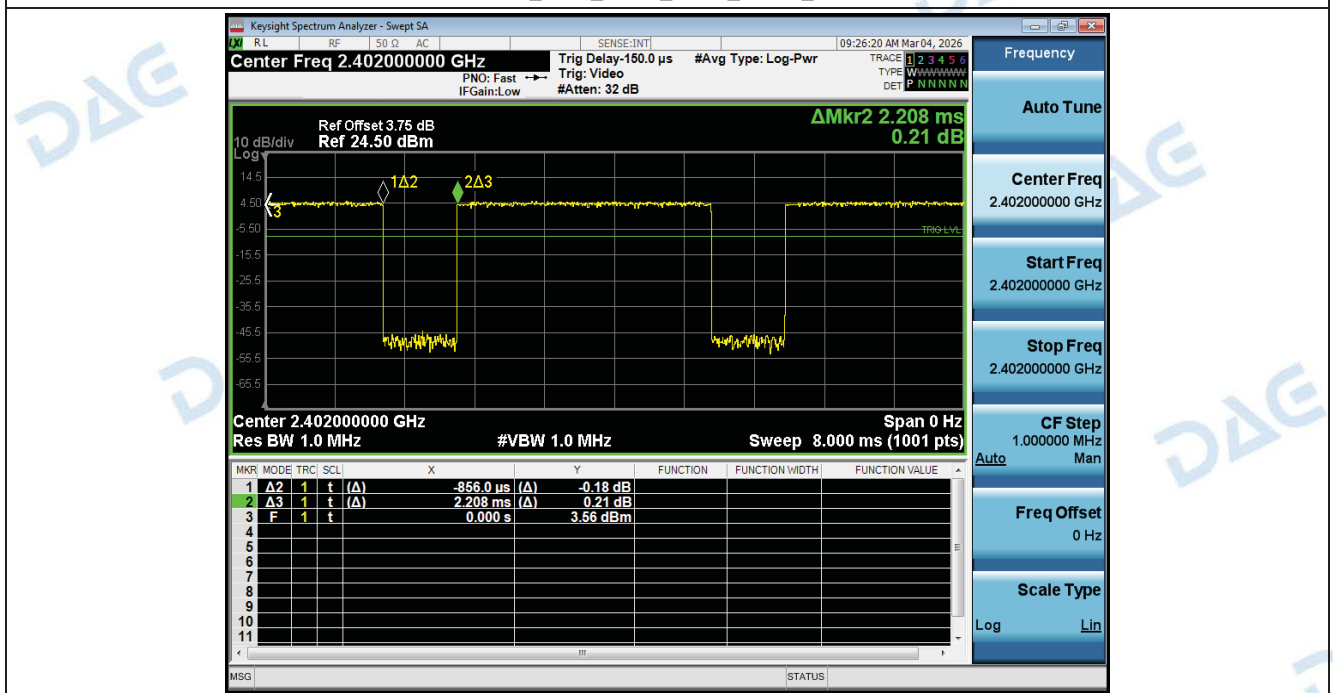
Dwell\_Time\_NVNT\_ANT1\_2-DH5\_2441



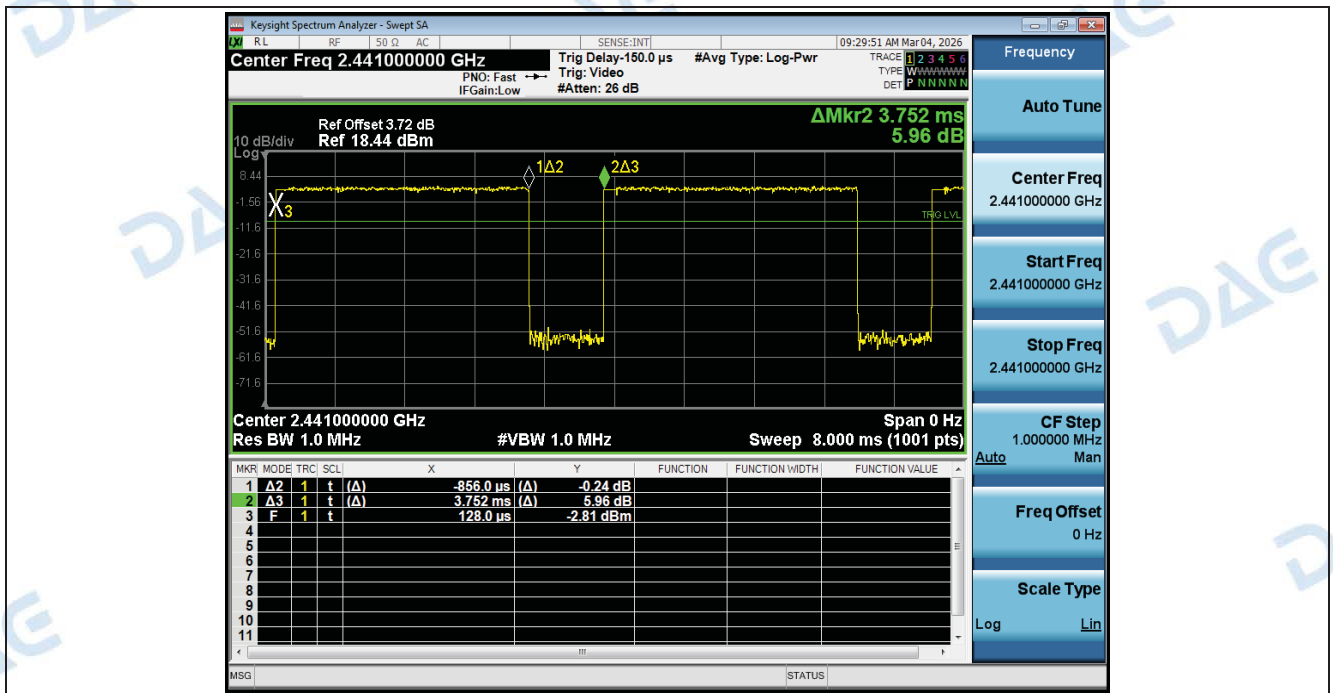
Dwell\_Time\_NVNT\_ANT1\_2-DH5\_2480



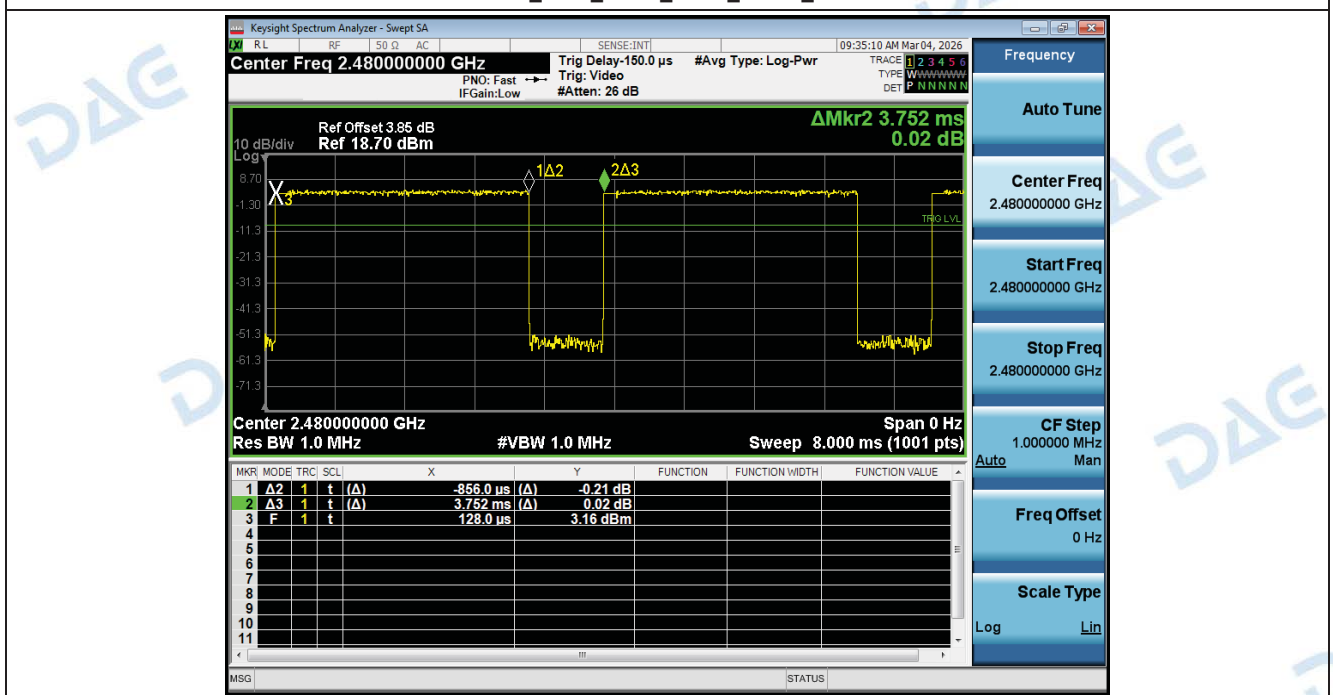
Dwell\_Time\_NVNT\_ANT1\_3-DH5\_2402



Dwell\_Time\_NVNT\_ANT1\_3-DH5\_2441



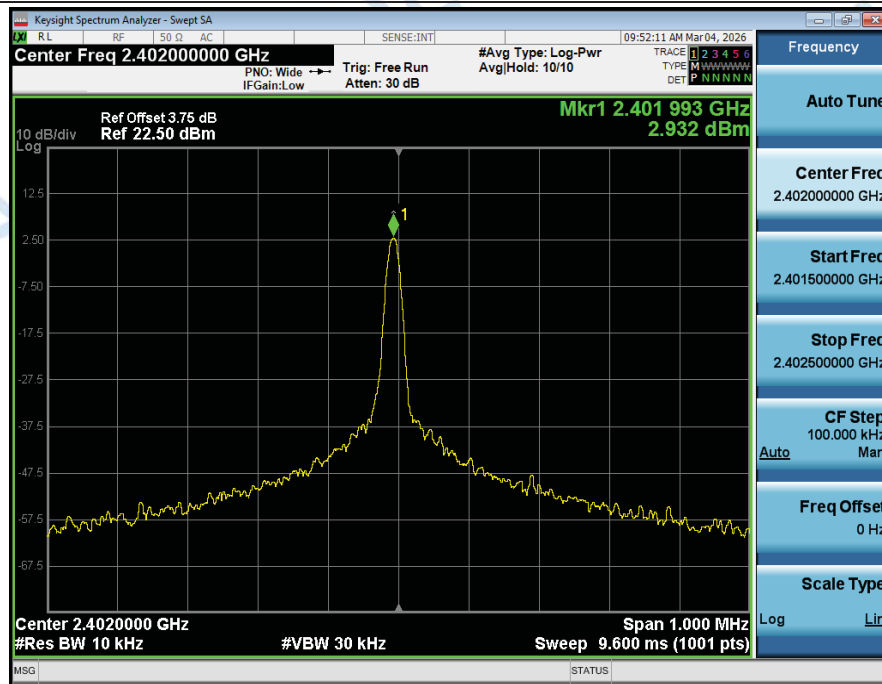
### Dwell\_Time\_NVNT\_ANT1\_3-DH5\_2480



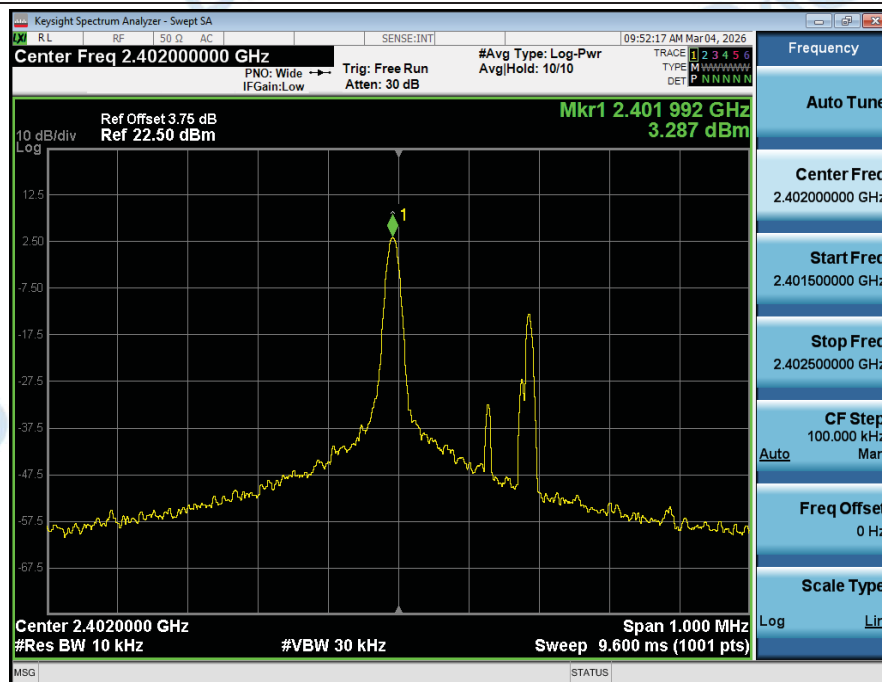
## 6. Frequency Tolerance

| Condition | Antenna | Modulation    | Frequency (MHz) | Test Frequency(MHz) | Frequency Tolerance(ppm) | Limit(ppm) | Result |
|-----------|---------|---------------|-----------------|---------------------|--------------------------|------------|--------|
| NTNV      | ANT1    | un-modulation | 2402.00         | 2401.993            | -2.914                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2402.00         | 2401.992            | -3.331                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2402.00         | 2401.992            | -3.331                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2441.00         | 2440.990            | -4.097                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2441.00         | 2440.990            | -4.097                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2441.00         | 2440.990            | -4.097                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2480.00         | 2479.987            | -5.242                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2480.00         | 2479.987            | -5.242                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2480.00         | 2479.987            | -5.242                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2402.00         | 2401.987            | -5.412                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2402.00         | 2401.987            | -5.412                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2402.00         | 2401.987            | -5.412                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2441.00         | 2440.986            | -5.735                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2441.00         | 2440.986            | -5.735                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2441.00         | 2440.986            | -5.735                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2480.00         | 2479.986            | -5.645                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2480.00         | 2479.986            | -5.645                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2480.00         | 2479.986            | -5.645                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2402.00         | 2401.986            | -5.828                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2402.00         | 2401.986            | -5.828                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2402.00         | 2401.986            | -5.828                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2441.00         | 2440.986            | -5.735                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2441.00         | 2440.986            | -5.735                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2441.00         | 2440.986            | -5.735                   | ±50        | Pass   |
| NTNV      | ANT1    | un-modulation | 2480.00         | 2479.985            | -6.048                   | ±50        | Pass   |
| NTLV      | ANT1    | un-modulation | 2480.00         | 2479.985            | -6.048                   | ±50        | Pass   |
| NTHV      | ANT1    | un-modulation | 2480.00         | 2479.985            | -6.048                   | ±50        | Pass   |

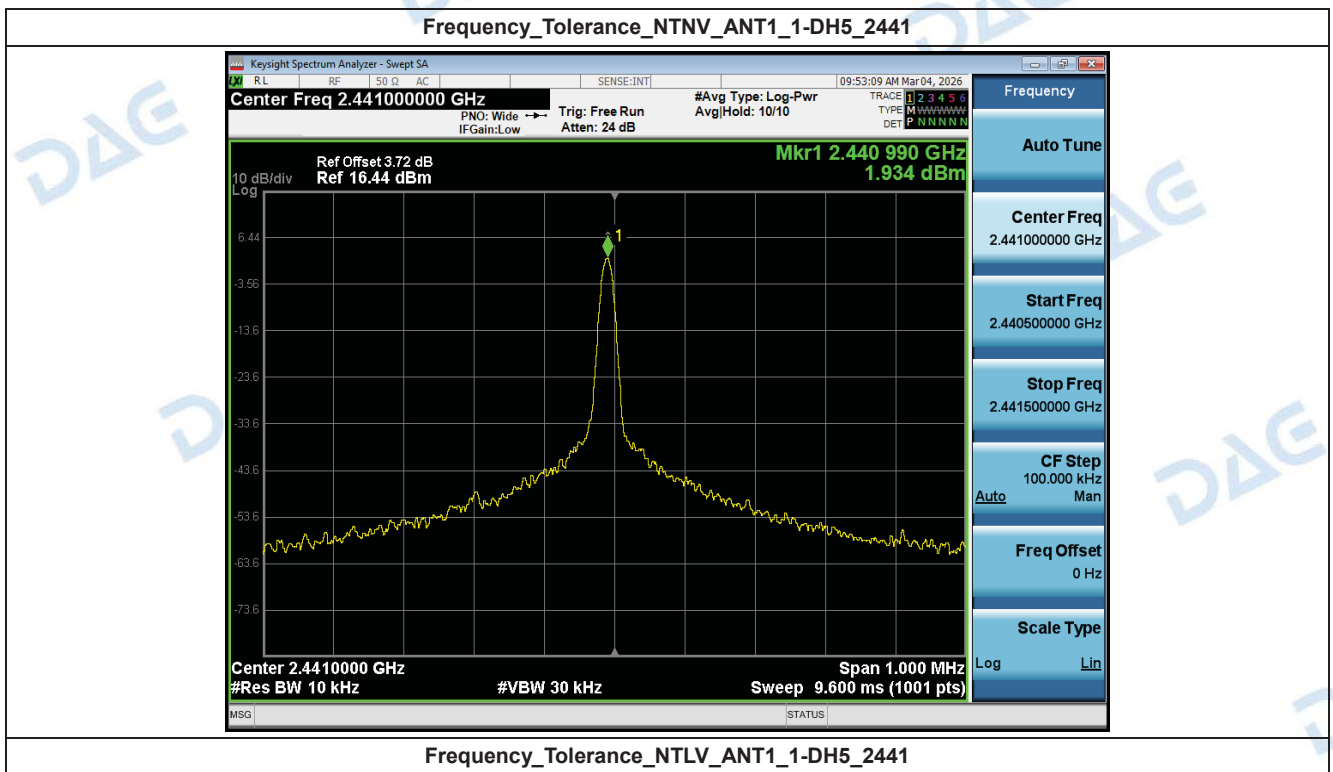
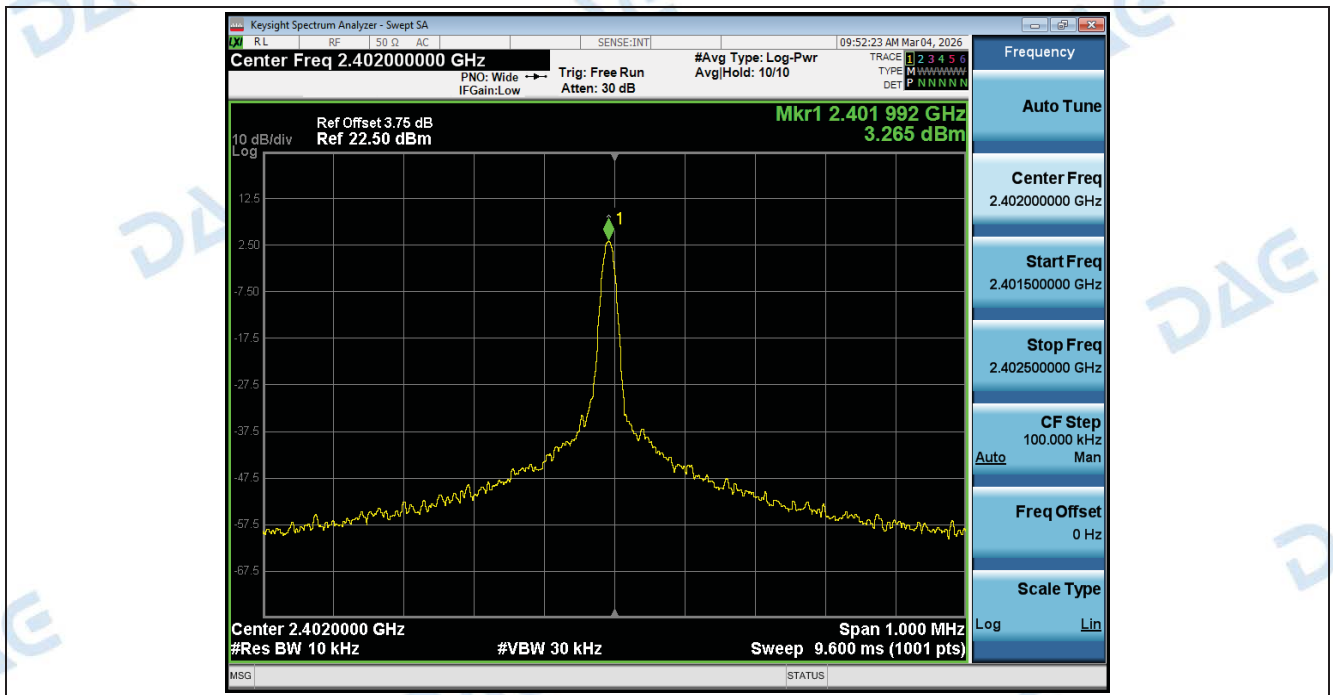
Frequency\_Tolerance\_NTNV\_ANT1\_1-DH5\_2402

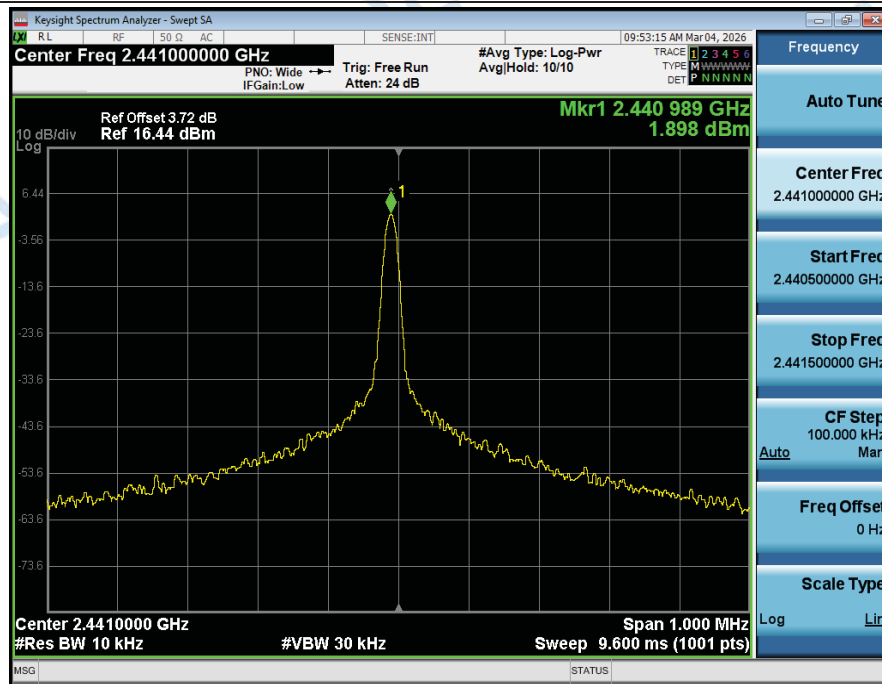


Frequency\_Tolerance\_NTLV\_ANT1\_1-DH5\_2402

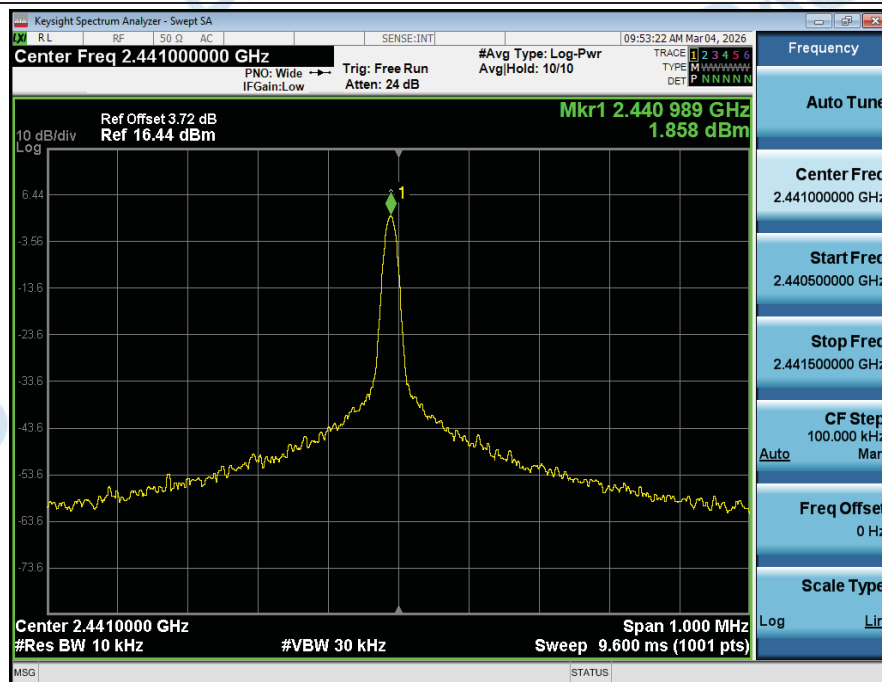


Frequency\_Tolerance\_NTHV\_ANT1\_1-DH5\_2402

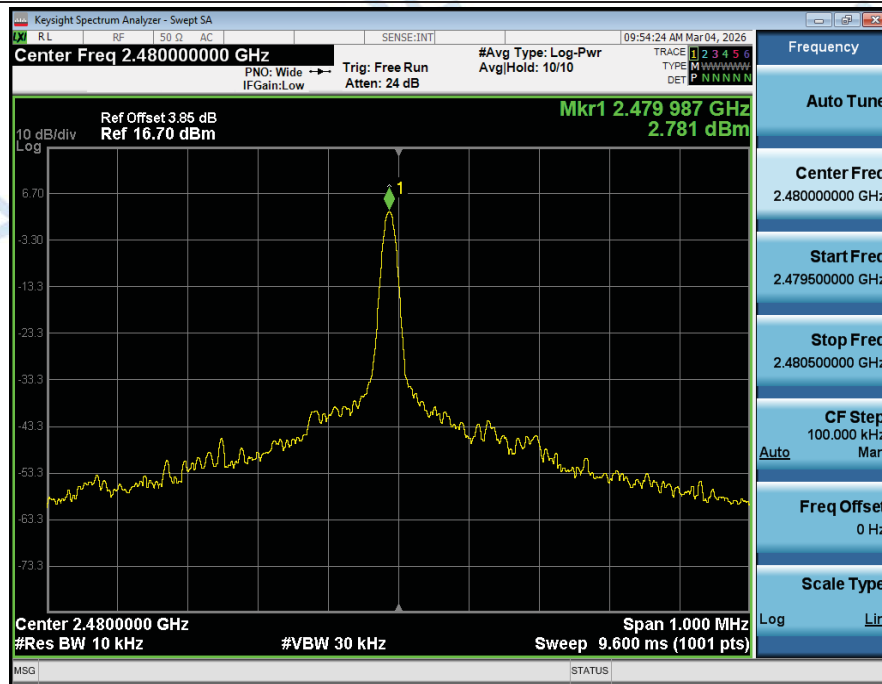




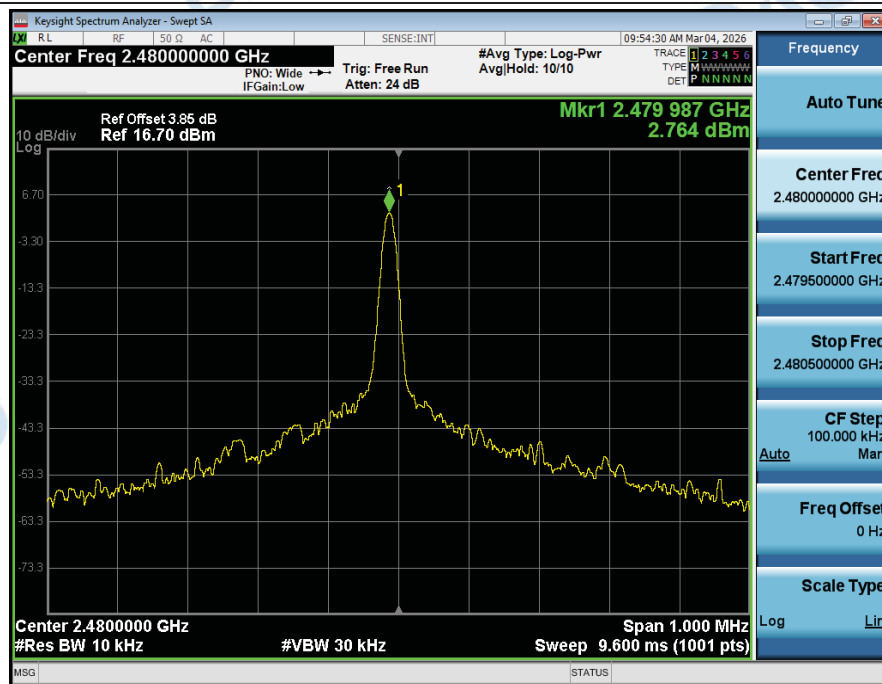
Frequency\_Tolerance\_NTHV\_ANT1\_1-DH5\_2441



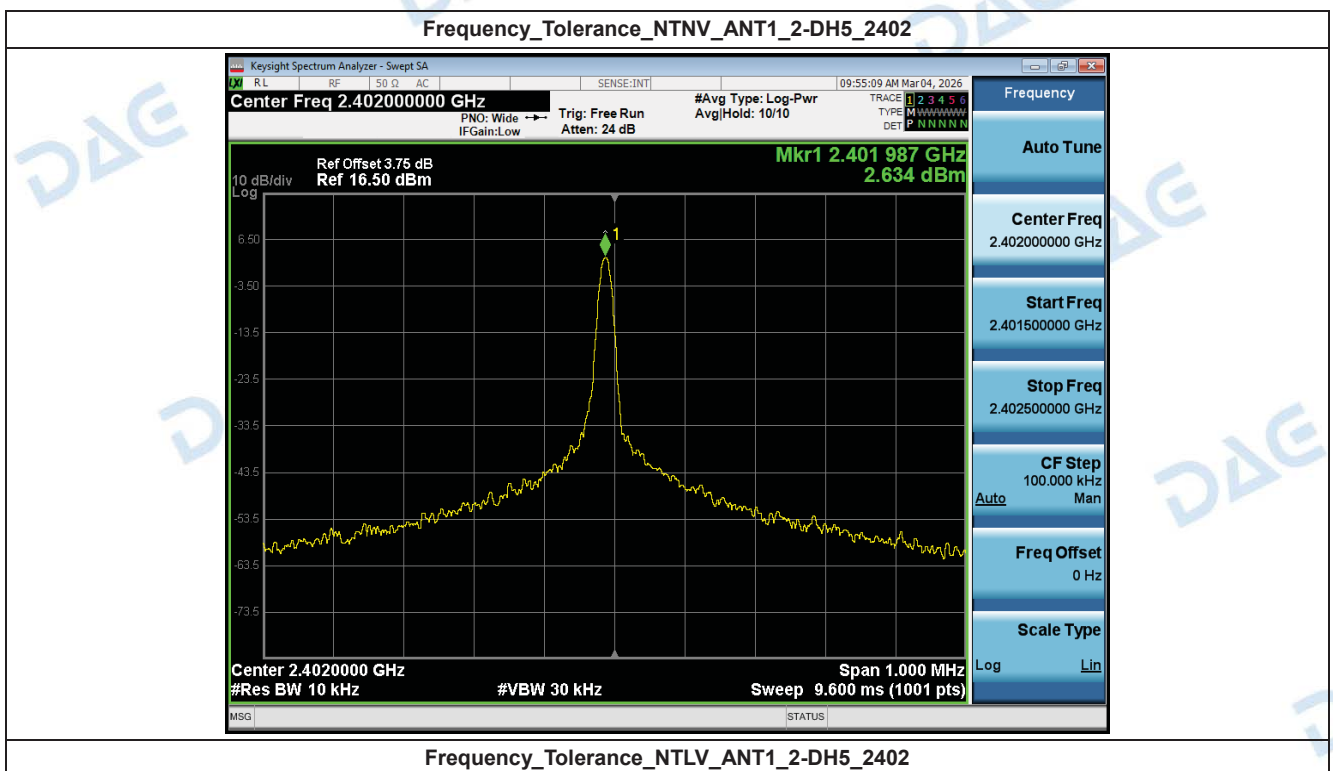
Frequency\_Tolerance\_NTNV\_ANT1\_1-DH5\_2480

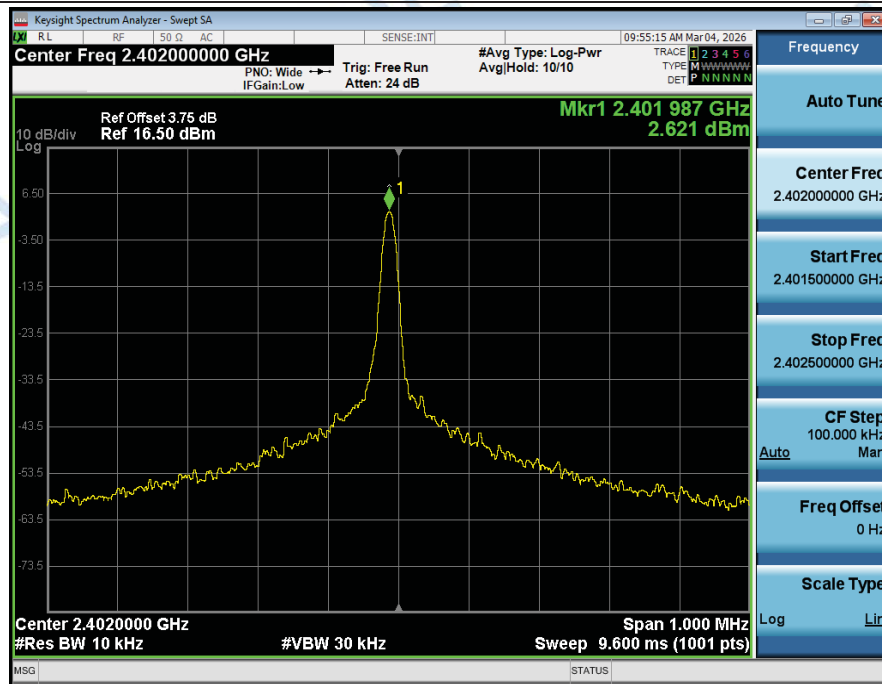


Frequency\_Tolerance\_NTLV\_ANT1\_1-DH5\_2480

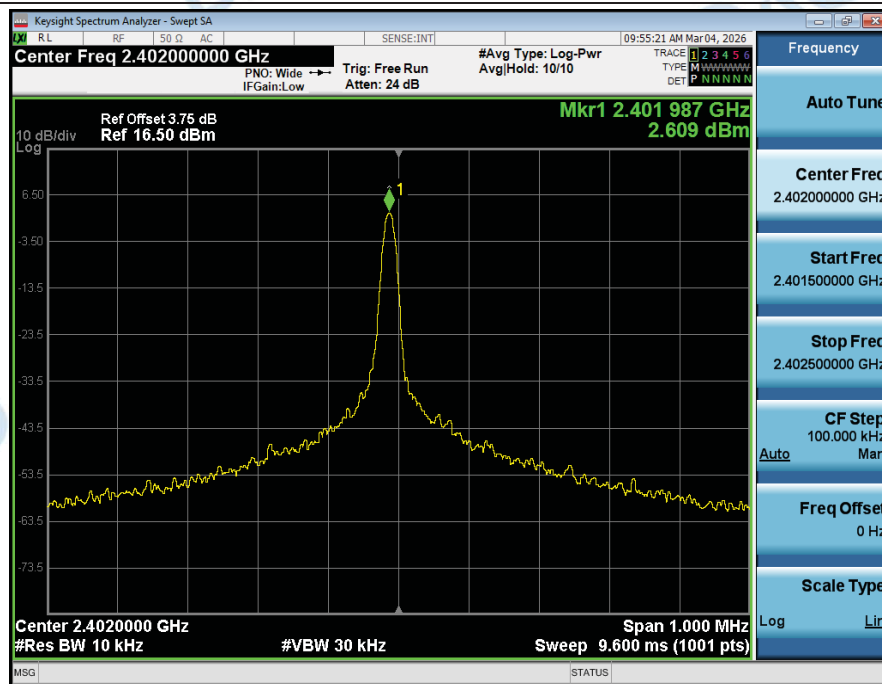


Frequency\_Tolerance\_NTHV\_ANT1\_1-DH5\_2480

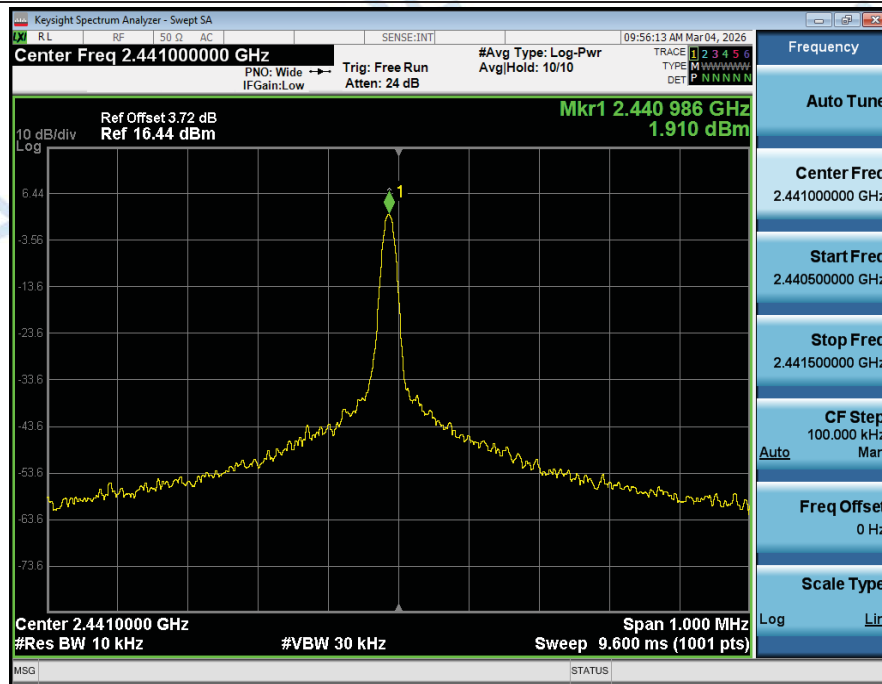




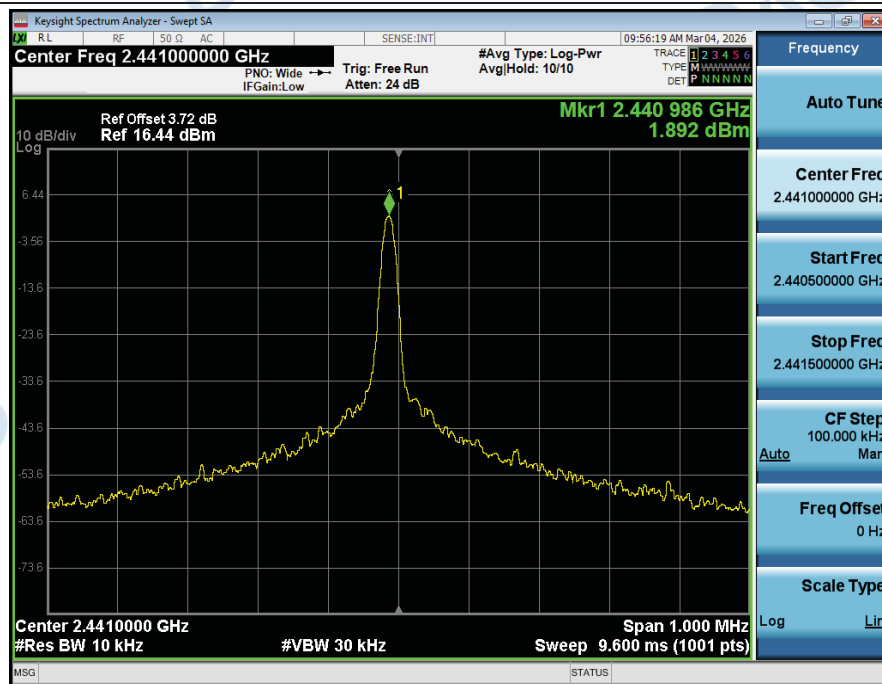
Frequency\_Tolerance\_NTHV\_ANT1\_2-DH5\_2402



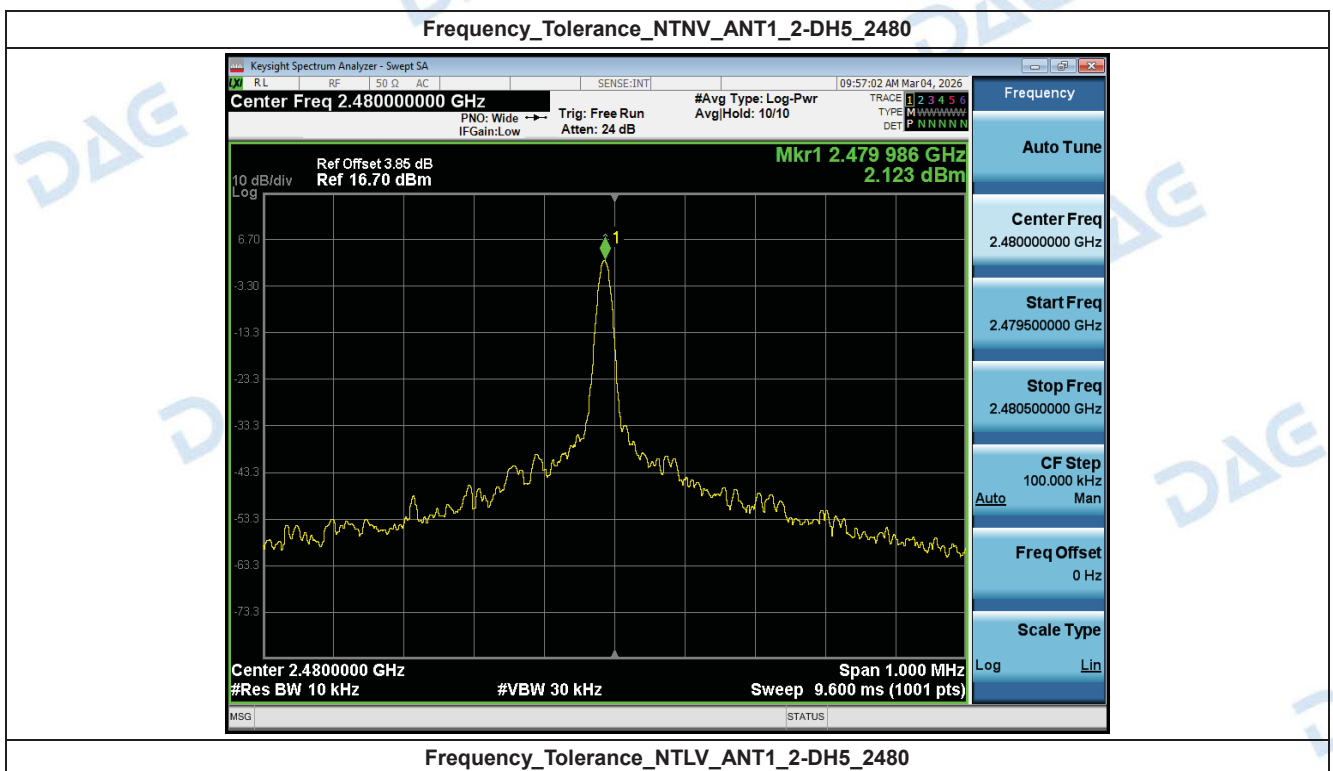
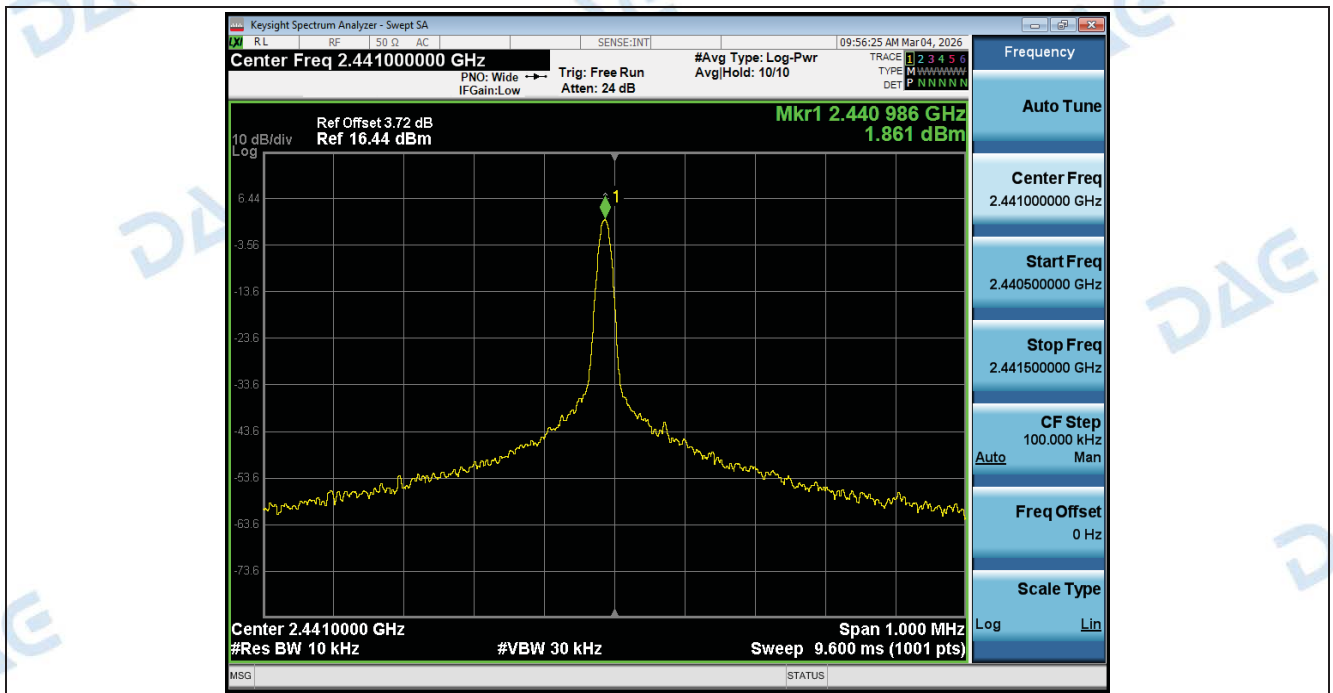
Frequency\_Tolerance\_NTNV\_ANT1\_2-DH5\_2441

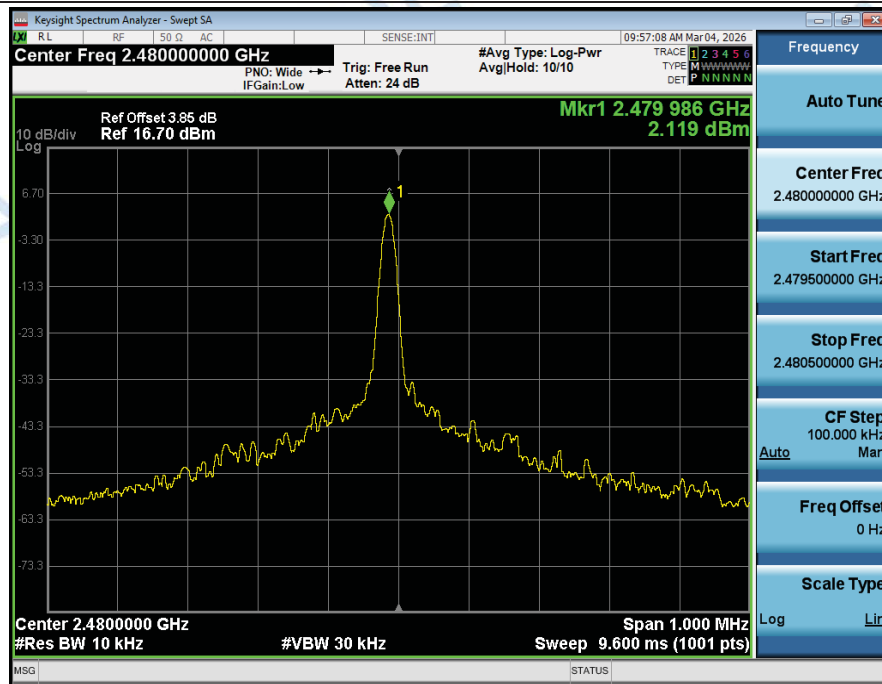


Frequency\_Tolerance\_NTLV\_ANT1\_2-DH5\_2441

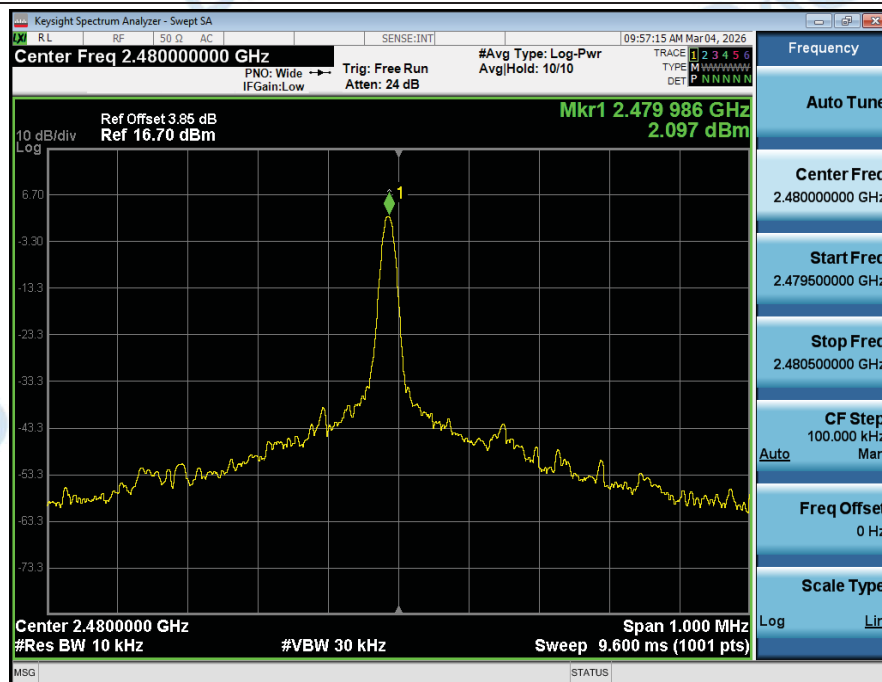


Frequency\_Tolerance\_NTHV\_ANT1\_2-DH5\_2441

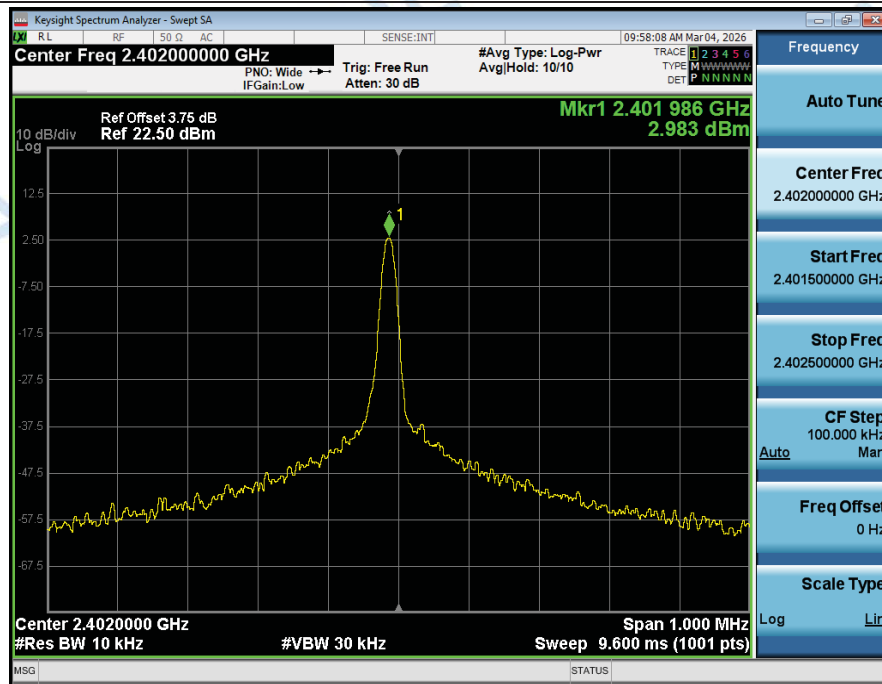




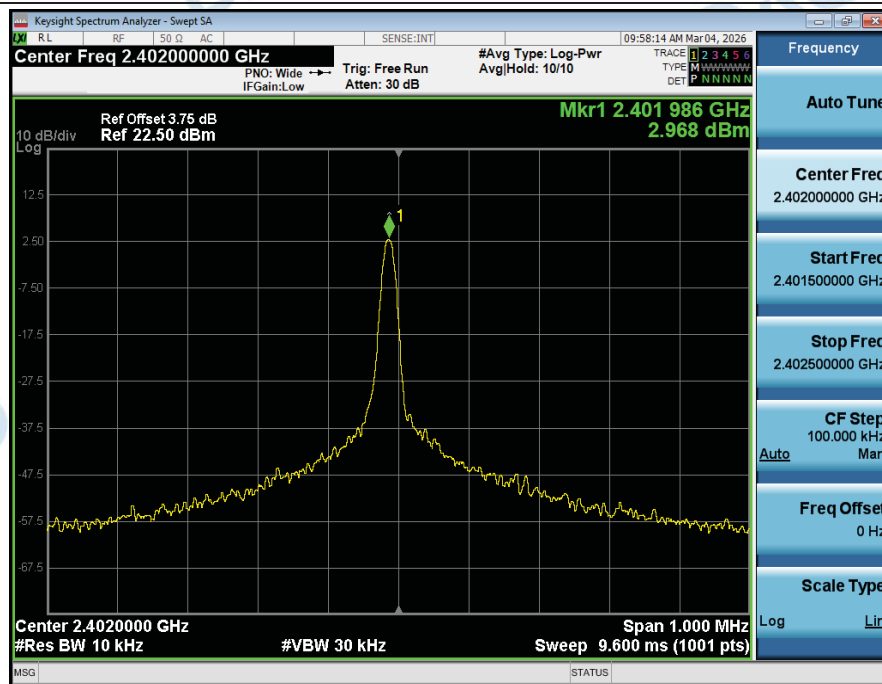
Frequency\_Tolerance\_NTHV\_ANT1\_2-DH5\_2480



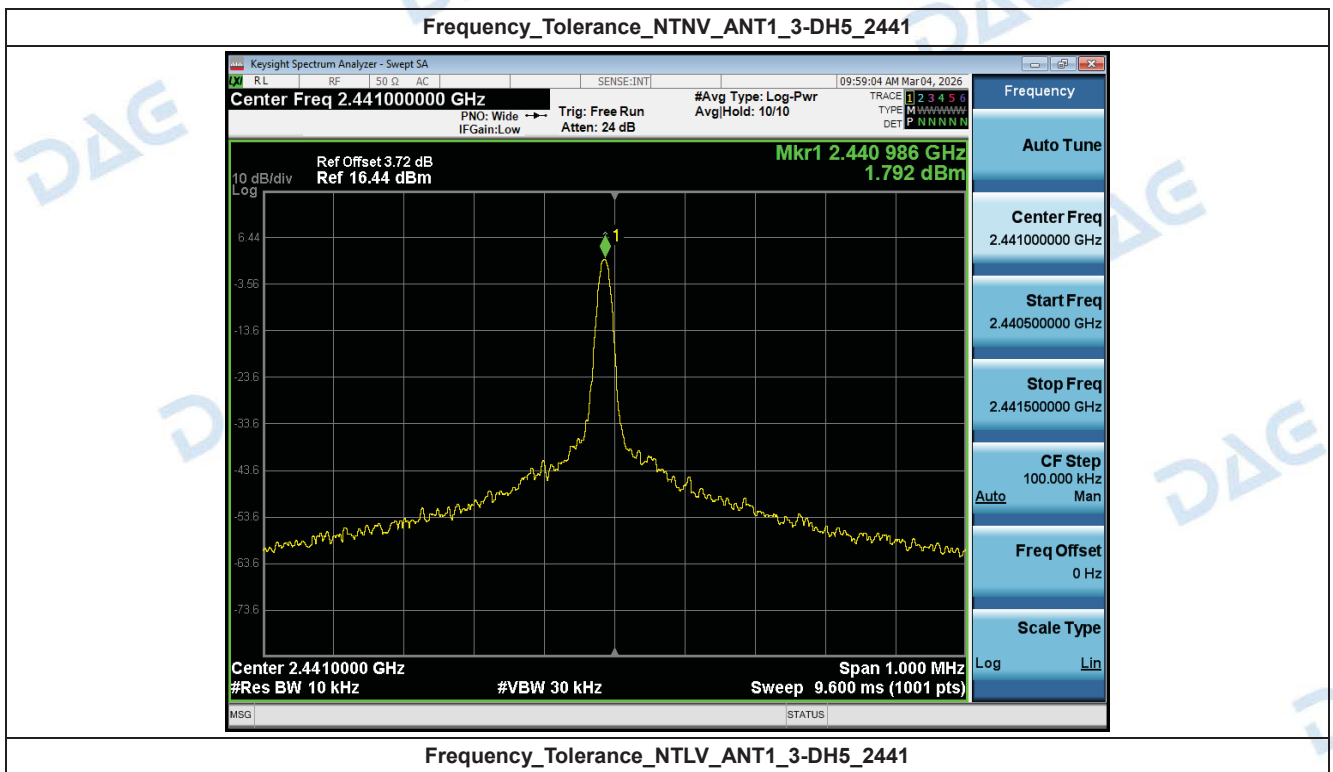
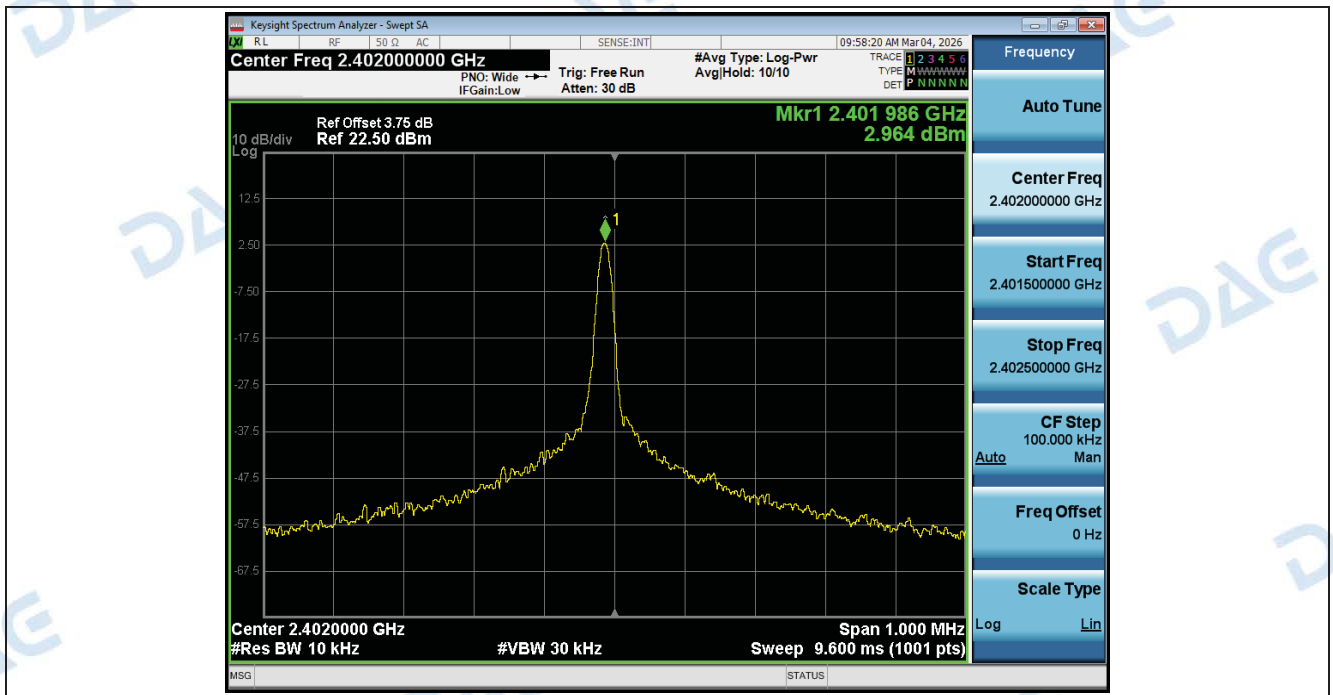
Frequency\_Tolerance\_NTNV\_ANT1\_3-DH5\_2402

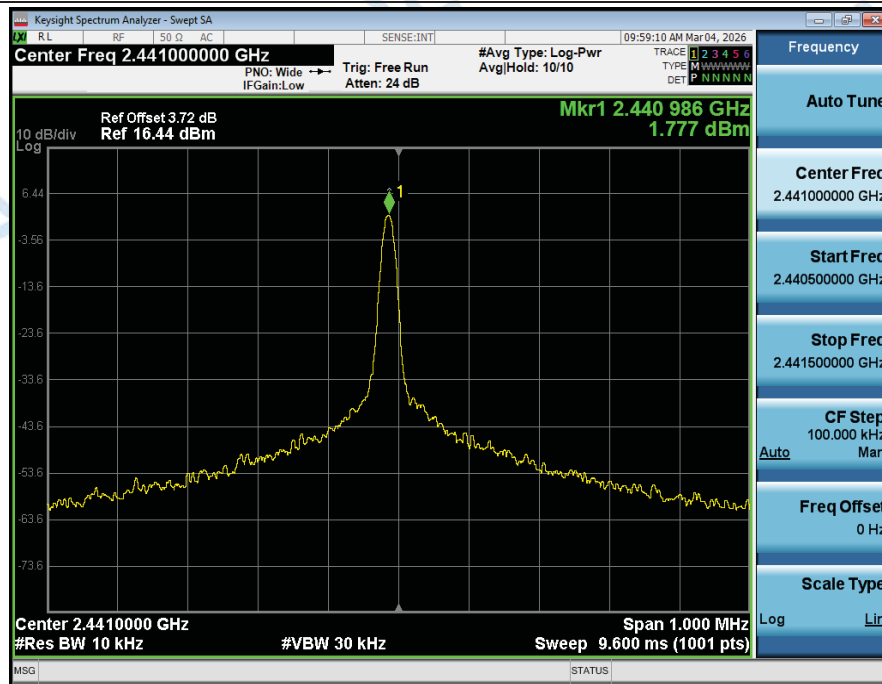


Frequency\_Tolerance\_NTLV\_ANT1\_3-DH5\_2402

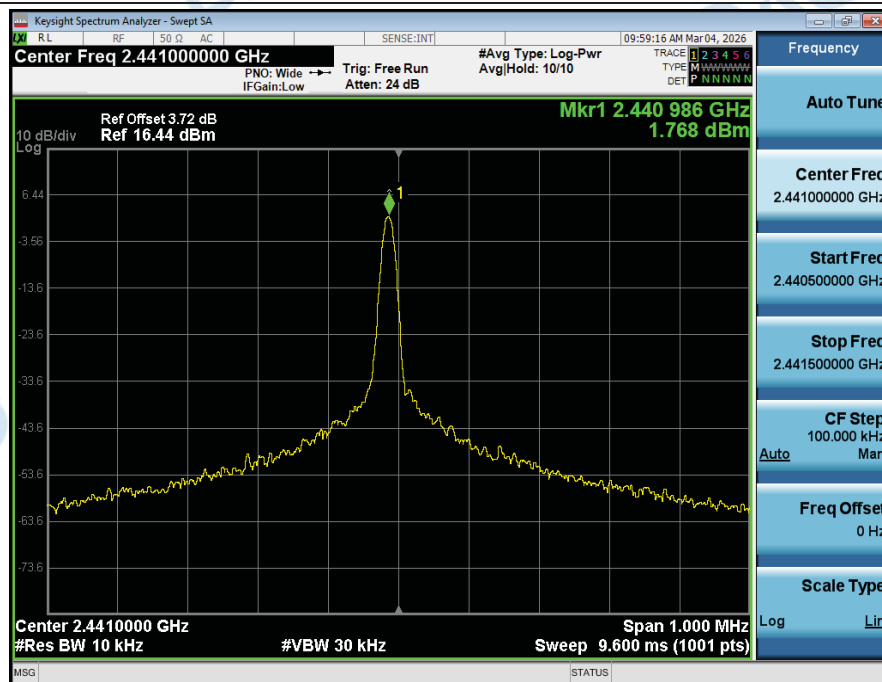


Frequency\_Tolerance\_NTHV\_ANT1\_3-DH5\_2402

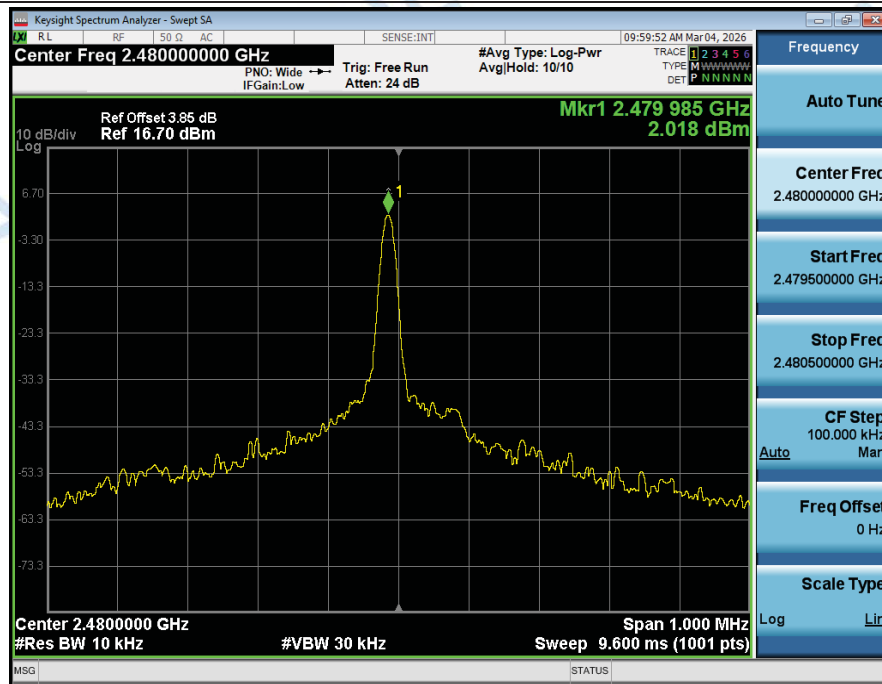




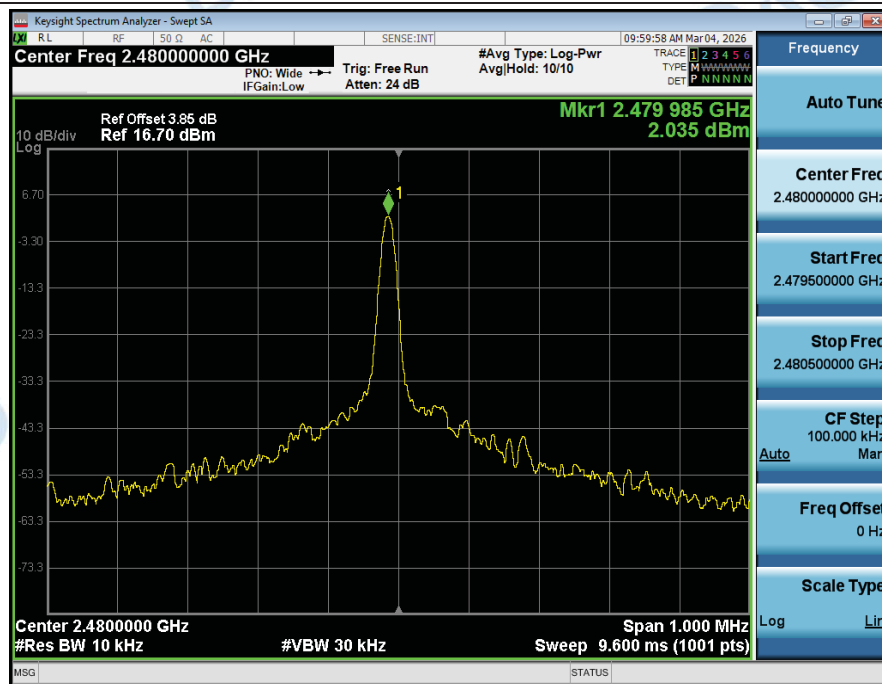
Frequency\_Tolerance\_NTHV\_ANT1\_3-DH5\_2441



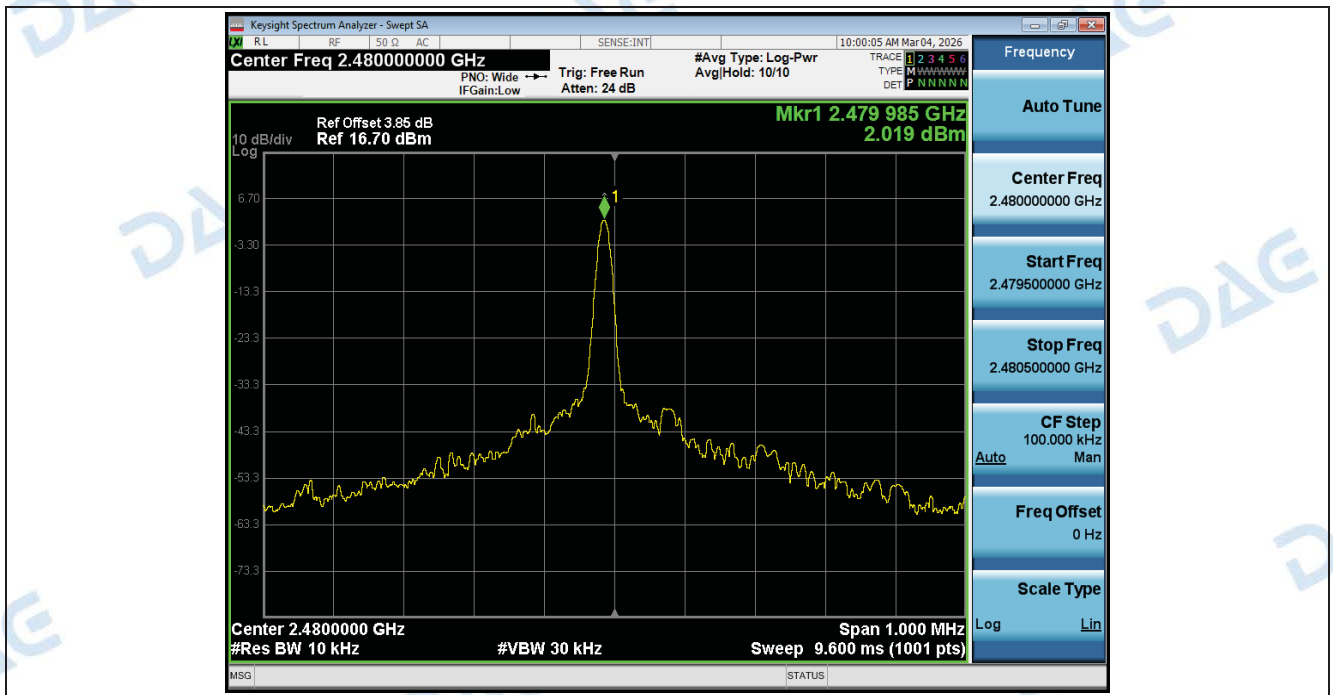
Frequency\_Tolerance\_NTNV\_ANT1\_3-DH5\_2480



Frequency\_Tolerance\_NTLV\_ANT1\_3-DH5\_2480



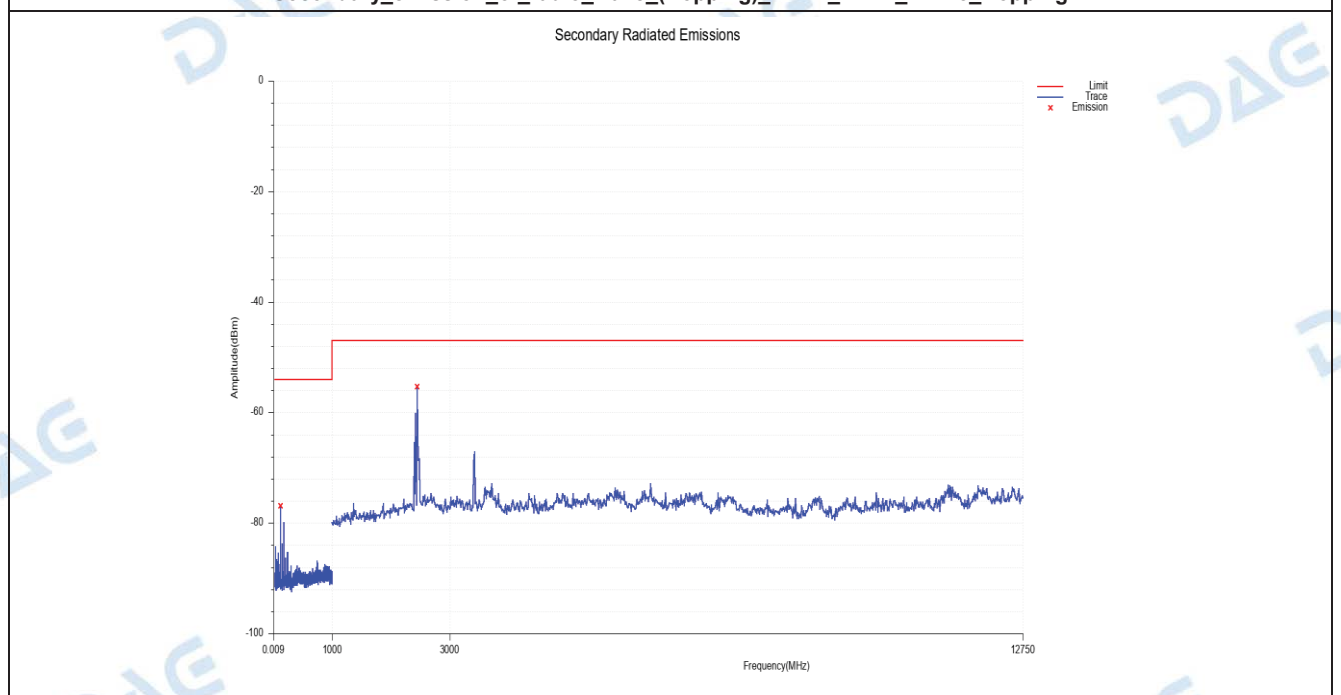
Frequency\_Tolerance\_NTHV\_ANT1\_3-DH5\_2480



## 7. Secondary emission of radio wave (Hopping)

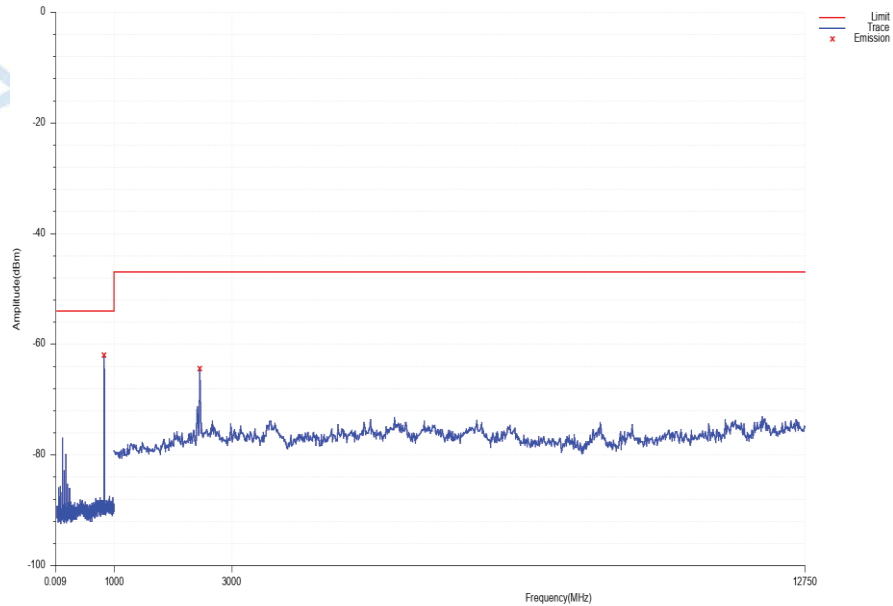
| Condition | ANT   | Mode  | Channel | Range(MHz)     | RBW(kHz) | Spur. Freq.(MHz) | Spur. Lev.(dBm) | Spur. Lev | Limit | Over 1/10 Limit | Read Lev.(dBm) | Read Lev. | Result |
|-----------|-------|-------|---------|----------------|----------|------------------|-----------------|-----------|-------|-----------------|----------------|-----------|--------|
| NVNT      | ANT 1 | 1-DH5 | Hopping | 30.0~1000.0    | 100      | 120.21           | -76.88          | 0.0205nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 1-DH5 | Hopping | 1000.0~12750.0 | 1000     | 2457.00          | -64.41          | 0.3624nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 1-DH5 | Hopping | 1000.0~12750.0 | 1000     | 3467.50          | -65.42          | 0.2871nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | Hopping | 30.0~1000.0    | 100      | 824.43           | -68.71          | 0.1346nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | Hopping | 1000.0~12750.0 | 1000     | 2410.00          | -60.34          | 0.9252nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | Hopping | 30.0~1000.0    | 100      | 120.21           | -76.61          | 0.0218nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | Hopping | 1000.0~12750.0 | 1000     | 1763.75          | -61.47          | 0.7120nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | Hopping | 30.0~1000.0    | 100      | 120.21           | -77.03          | 0.0197nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | Hopping | 30.0~1000.0    | 100      | 120.21           | -77.11          | 0.0194nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | Hopping | 1000.0~12750.0 | 1000     | 2480.50          | -63.80          | 0.4166nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | Hopping | 30.0~1000.0    | 100      | 120.21           | -76.90          | 0.0204nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | Hopping | 1000.0~12750.0 | 1000     | 1752.00          | -66.03          | 0.2496nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | Hopping | 30.0~1000.0    | 100      | 120.21           | -76.91          | 0.0203nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | Hopping | 1000.0~12750.0 | 1000     | 2421.75          | -58.31          | 1.4758nW  | 20nW  | NO              | /              | /         | Pass   |

Secondary\_emission\_of\_radio\_wave\_(Hopping)\_NVNT\_ANT1\_1-DH5\_Hopping



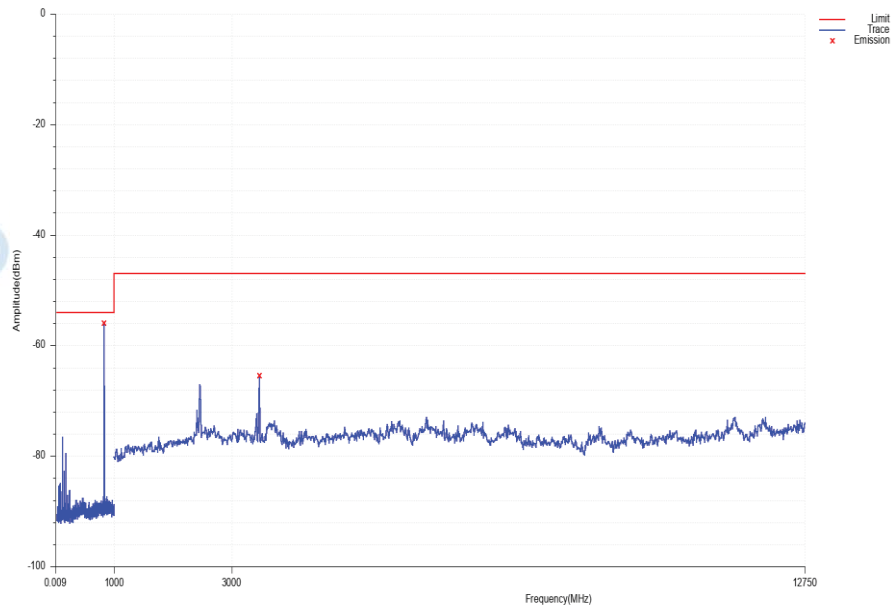
### Secondary\_emission\_of\_radio\_wave\_(Hopping)\_NVNT\_ANT1\_1-DH5\_Hopping

Secondary Radiated Emissions

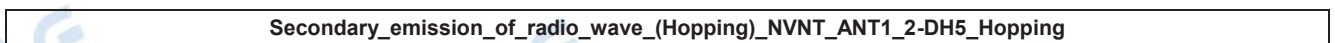
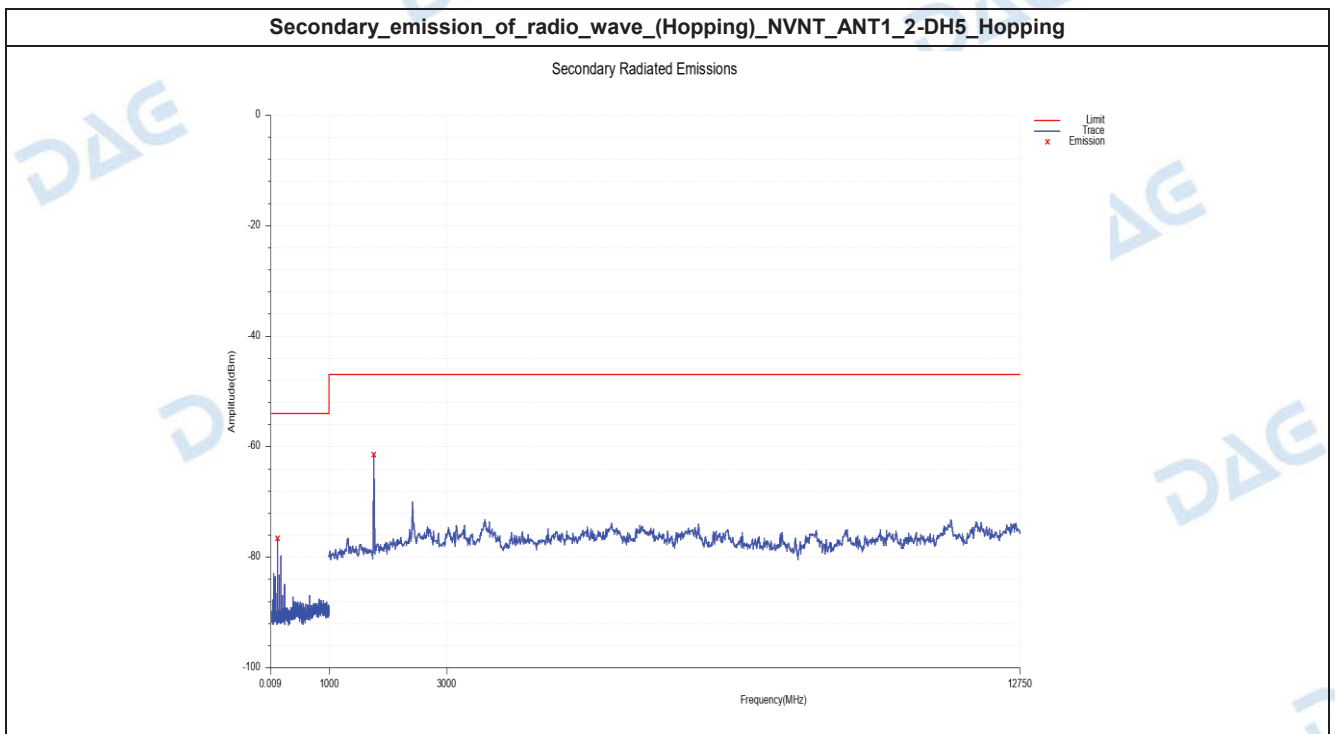
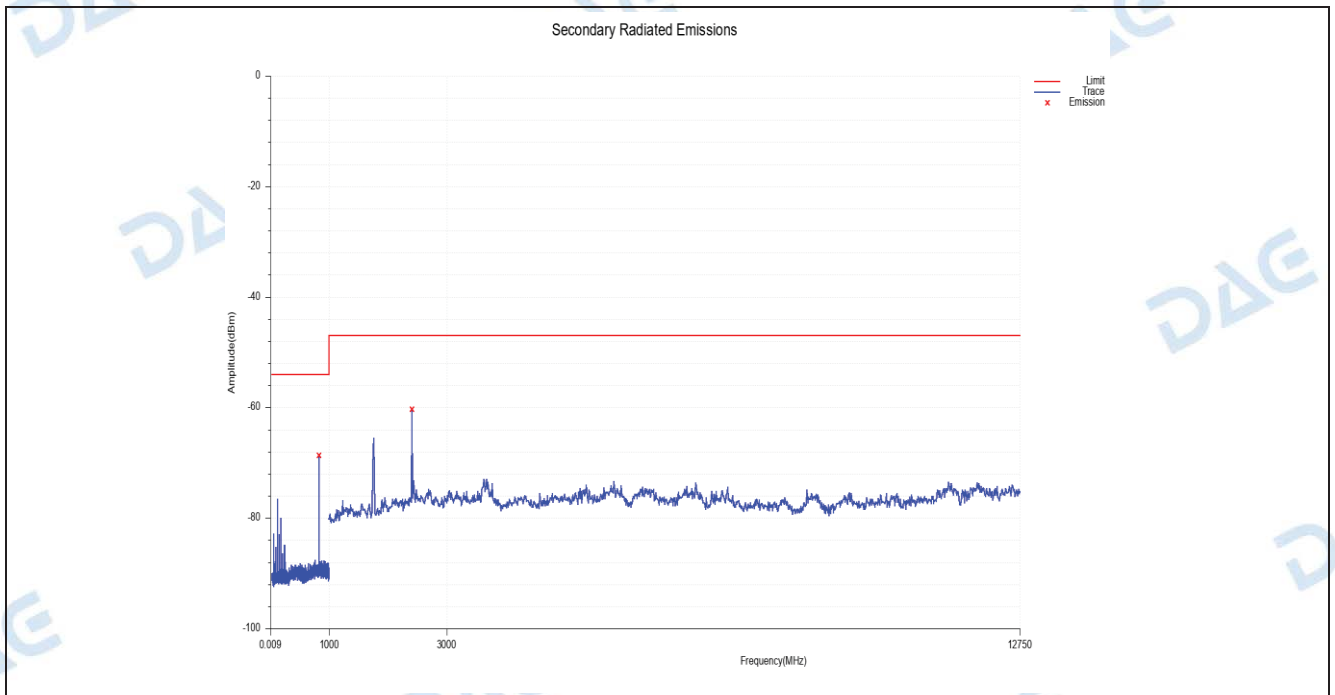


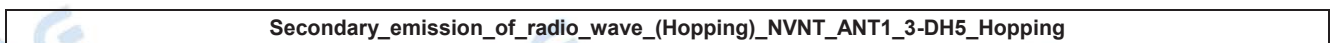
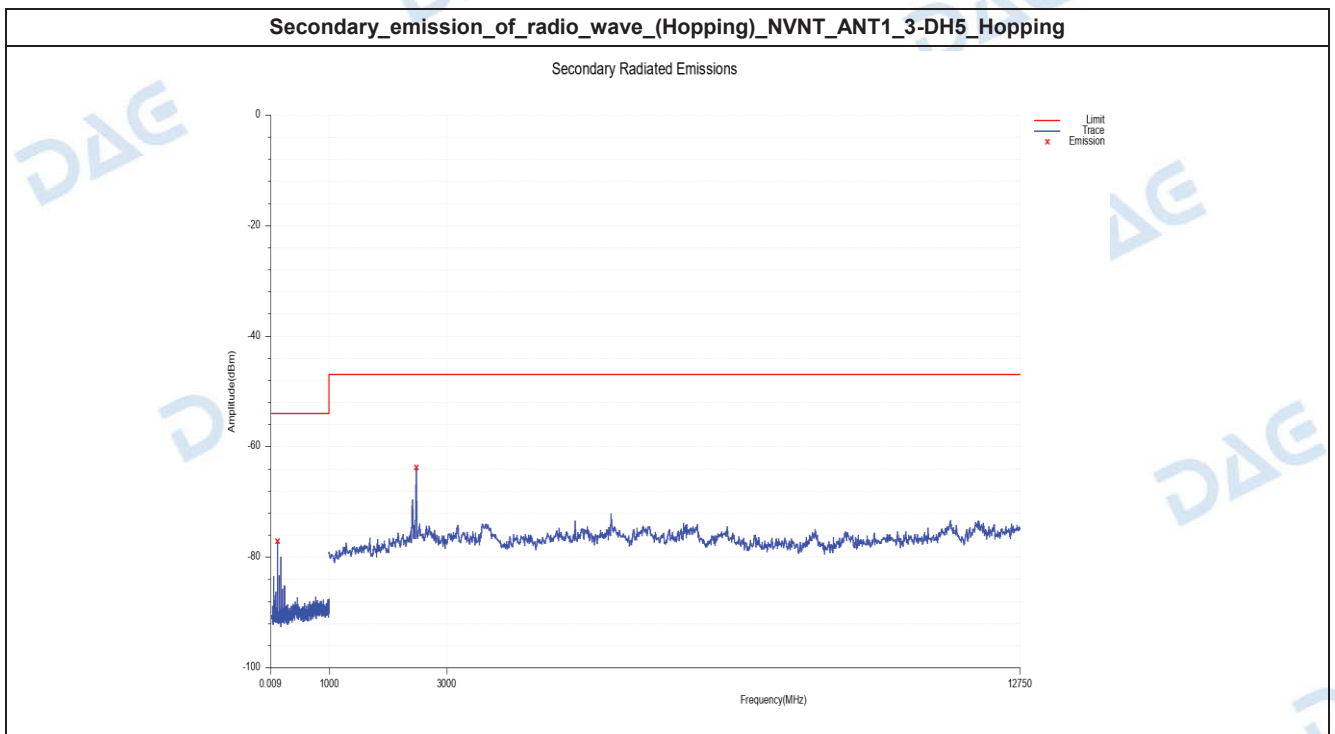
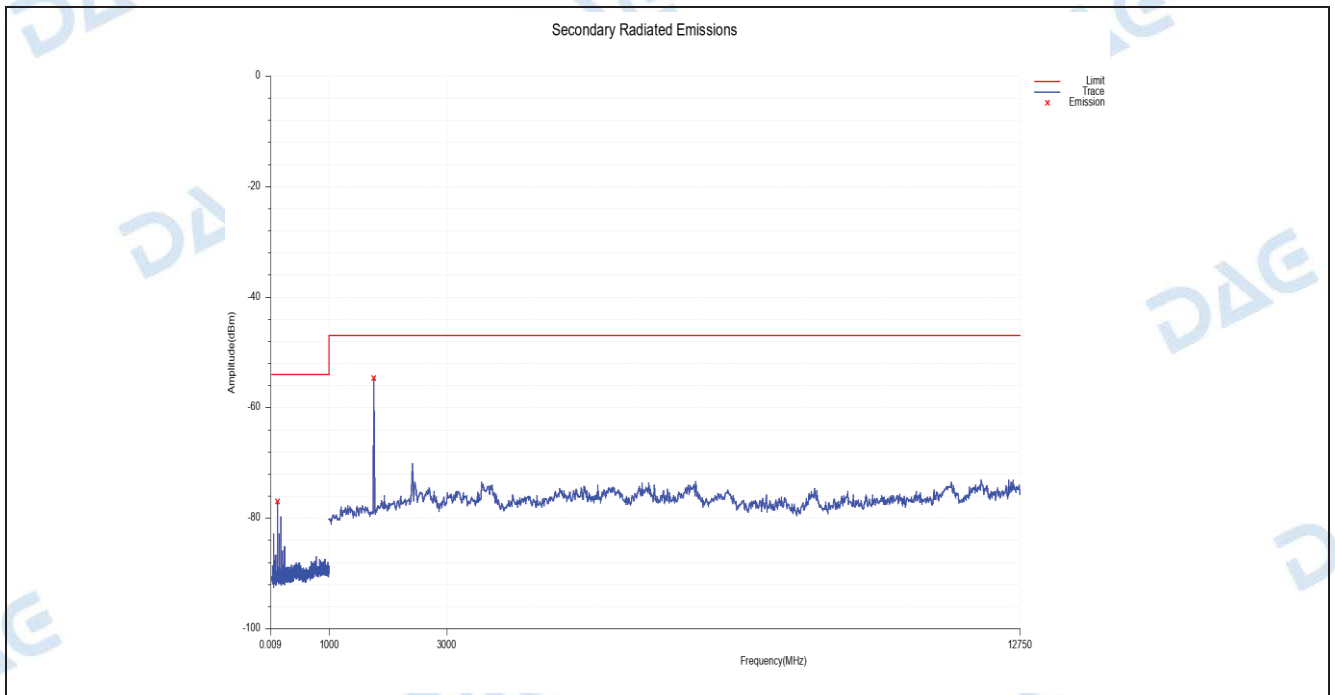
### Secondary\_emission\_of\_radio\_wave\_(Hopping)\_NVNT\_ANT1\_1-DH5\_Hopping

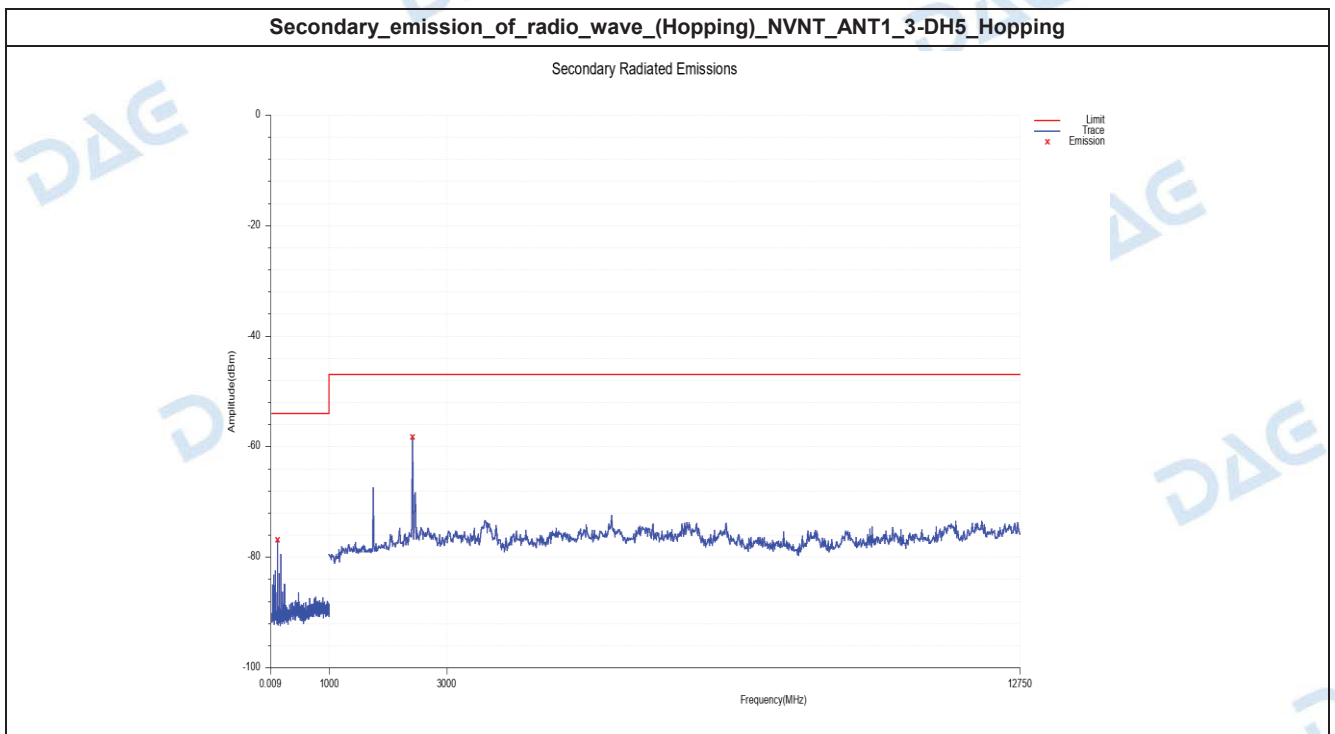
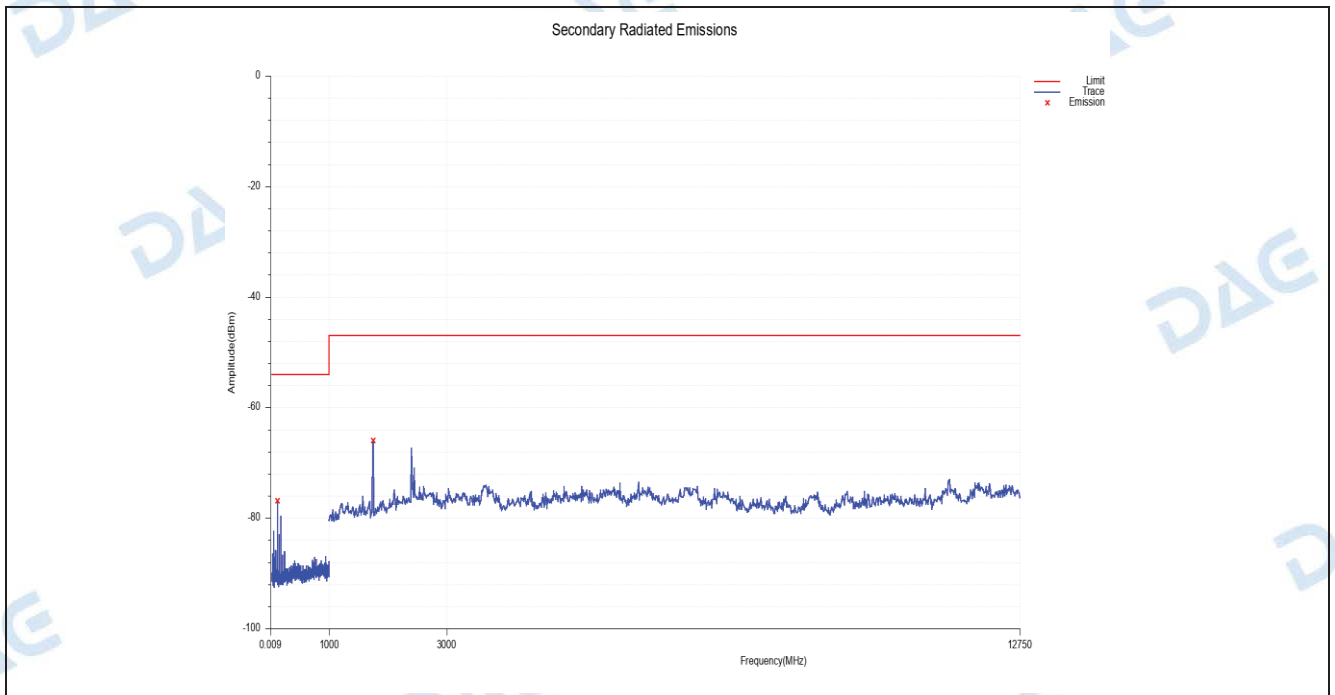
Secondary Radiated Emissions



### Secondary\_emission\_of\_radio\_wave\_(Hopping)\_NVNT\_ANT1\_2-DH5\_Hopping



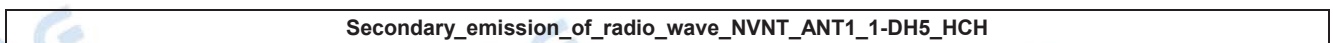
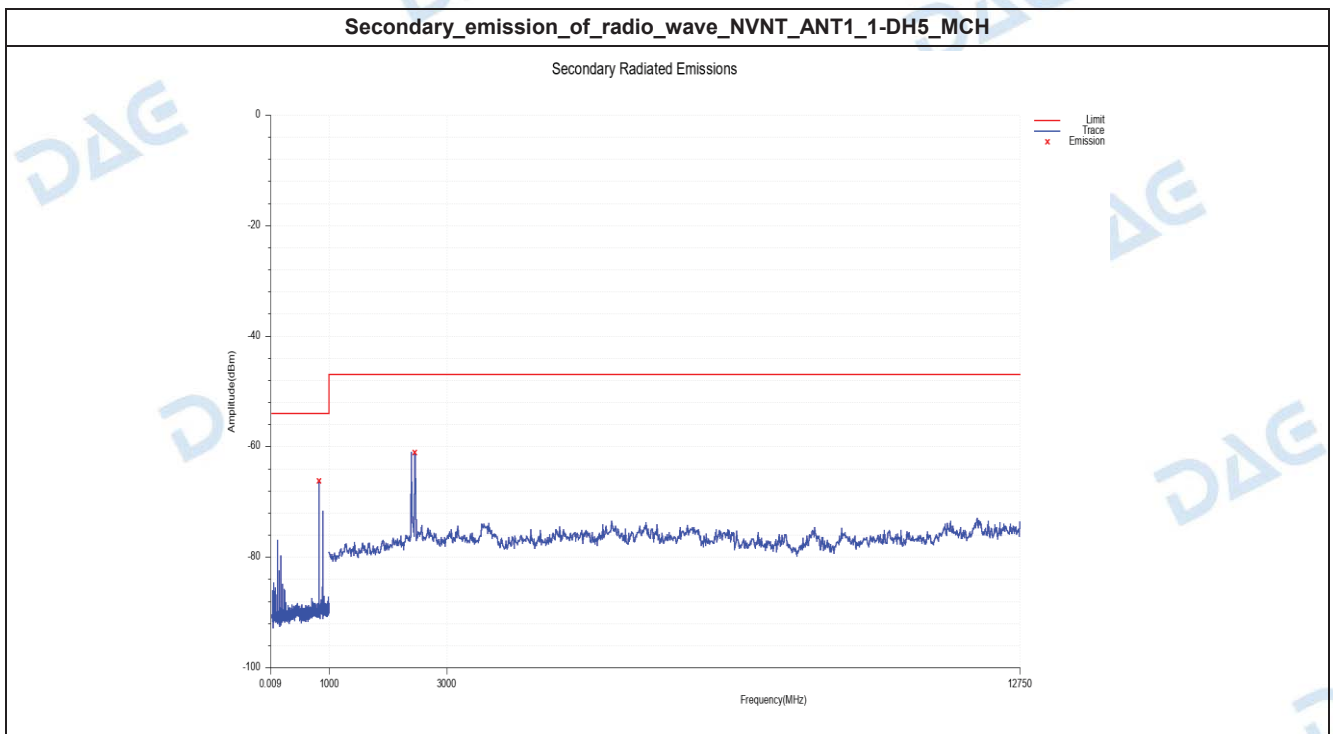
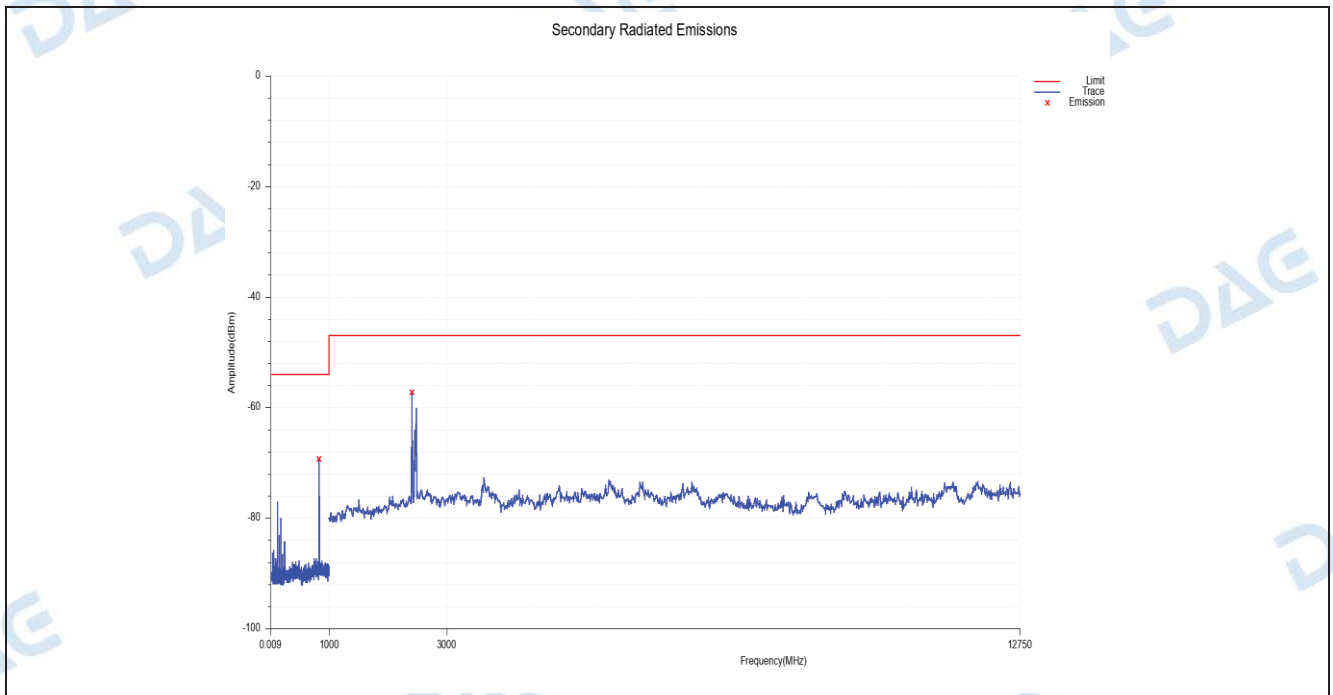


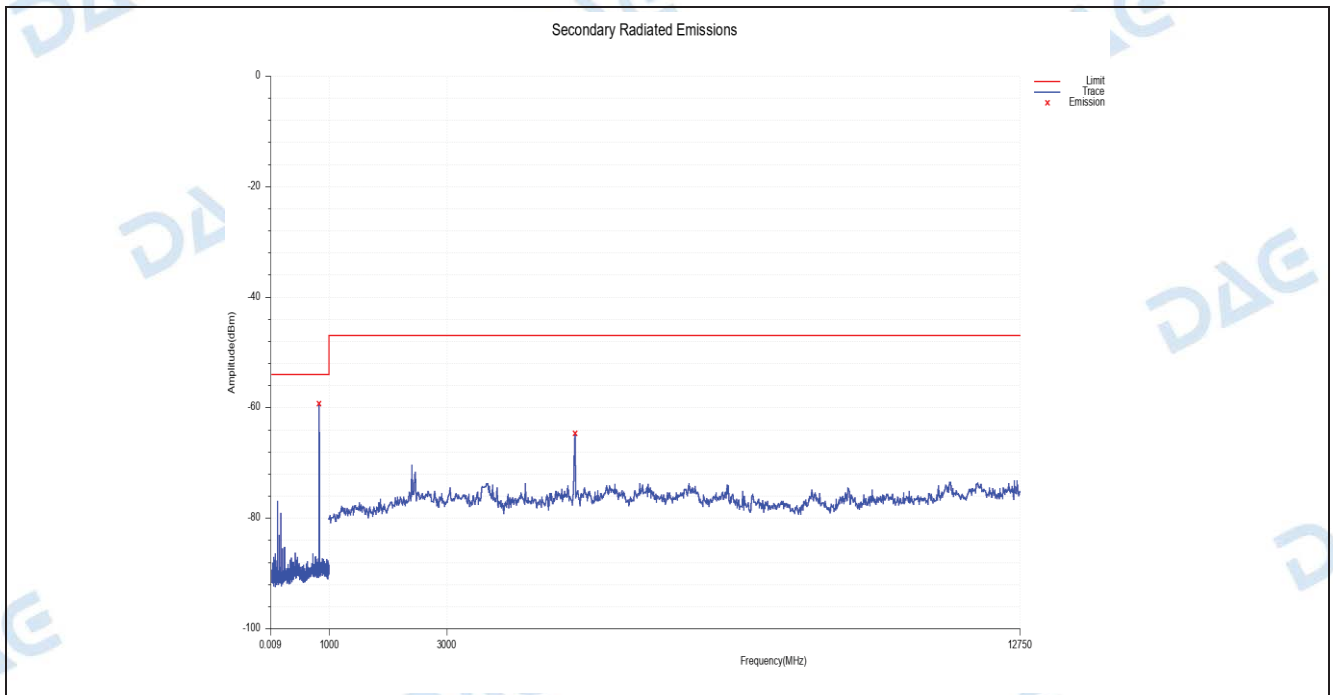


## 8. Secondary emission of radio wave

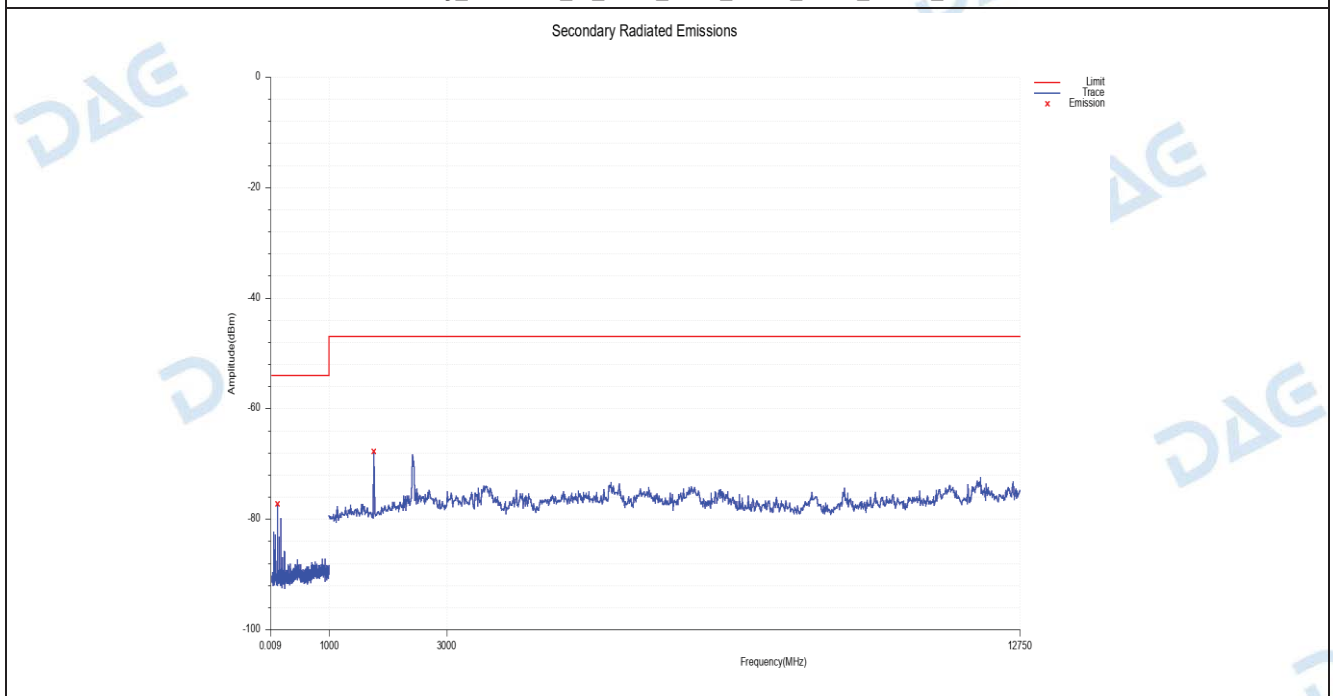
| Condition | ANT   | Mode  | Channel | Range(MHz)     | RBW(kHz) | Spur. Freq.(MHz) | Spur. Lev.(dBm) | Spur. Lev | Limit | Over 1/10 Limit | Read Lev.(dBm) | Read Lev. | Result |
|-----------|-------|-------|---------|----------------|----------|------------------|-----------------|-----------|-------|-----------------|----------------|-----------|--------|
| NVNT      | ANT 1 | 1-DH5 | LCH     | 30.0~1000.0    | 100      | 825.40           | -69.30          | 0.1174nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 1-DH5 | LCH     | 1000.0~12750.0 | 1000     | 2410.00          | -57.31          | 1.8584nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 1-DH5 | MCH     | 30.0~1000.0    | 100      | 827.34           | -66.29          | 0.2350nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 1-DH5 | MCH     | 1000.0~12750.0 | 1000     | 2457.00          | -61.05          | 0.7847nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 1-DH5 | HCH     | 1000.0~12750.0 | 1000     | 5183.00          | -64.66          | 0.3419nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | LCH     | 30.0~1000.0    | 100      | 120.21           | -77.34          | 0.0184nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | LCH     | 1000.0~12750.0 | 1000     | 1763.75          | -67.79          | 0.1665nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | MCH     | 30.0~1000.0    | 100      | 120.21           | -76.98          | 0.0200nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 2-DH5 | HCH     | 30.0~1000.0    | 100      | 120.21           | -76.54          | 0.0221nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | LCH     | 30.0~1000.0    | 100      | 120.21           | -77.26          | 0.0187nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | LCH     | 1000.0~12750.0 | 1000     | 1763.75          | -63.05          | 0.4957nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | MCH     | 30.0~1000.0    | 100      | 120.21           | -77.05          | 0.0197nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | MCH     | 1000.0~12750.0 | 1000     | 1752.00          | -57.85          | 1.6407nW  | 20nW  | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | HCH     | 30.0~1000.0    | 100      | 120.21           | -76.60          | 0.0218nW  | 4nW   | NO              | /              | /         | Pass   |
| NVNT      | ANT 1 | 3-DH5 | HCH     | 1000.0~12750.0 | 1000     | 3479.25          | -62.27          | 0.5929nW  | 20nW  | NO              | /              | /         | Pass   |

Secondary\_emission\_of\_radio\_wave\_NVNT\_ANT1\_1-DH5\_LCH

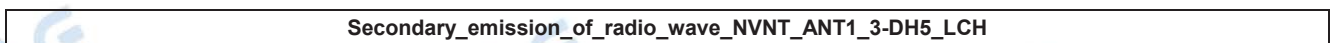
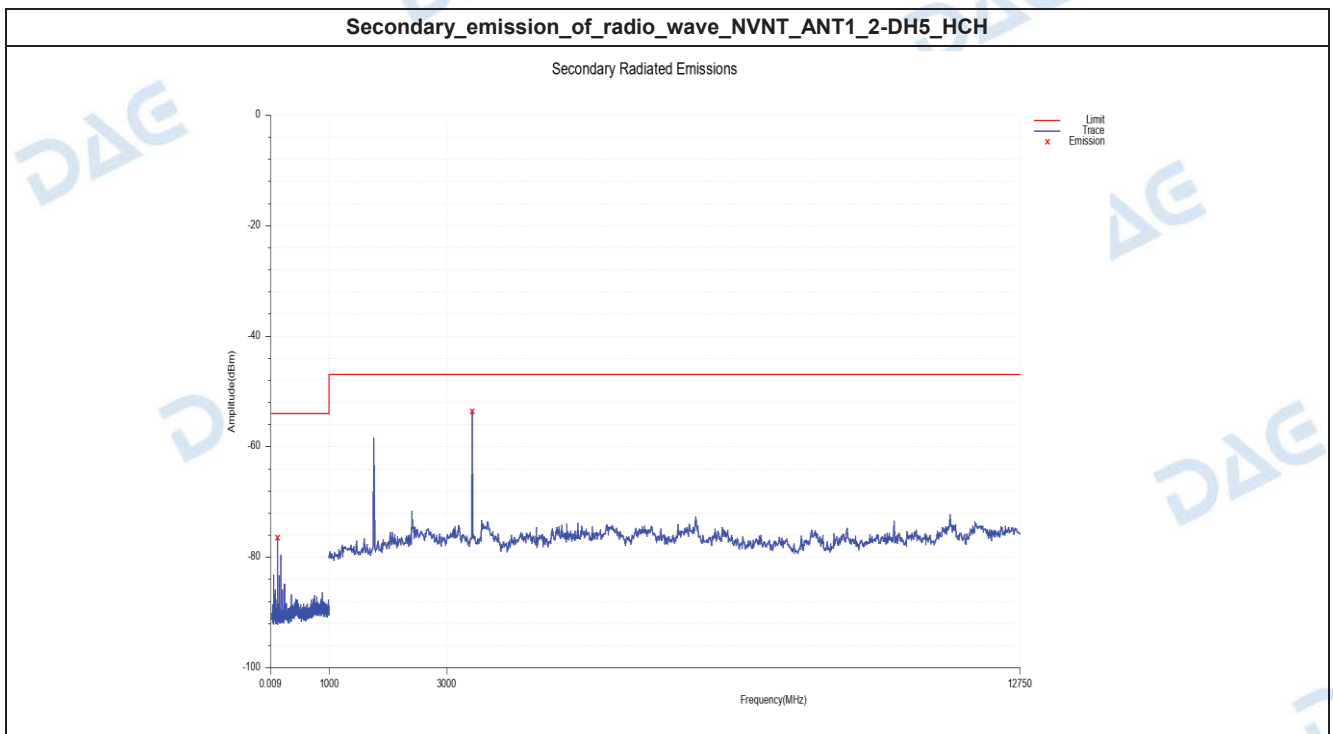
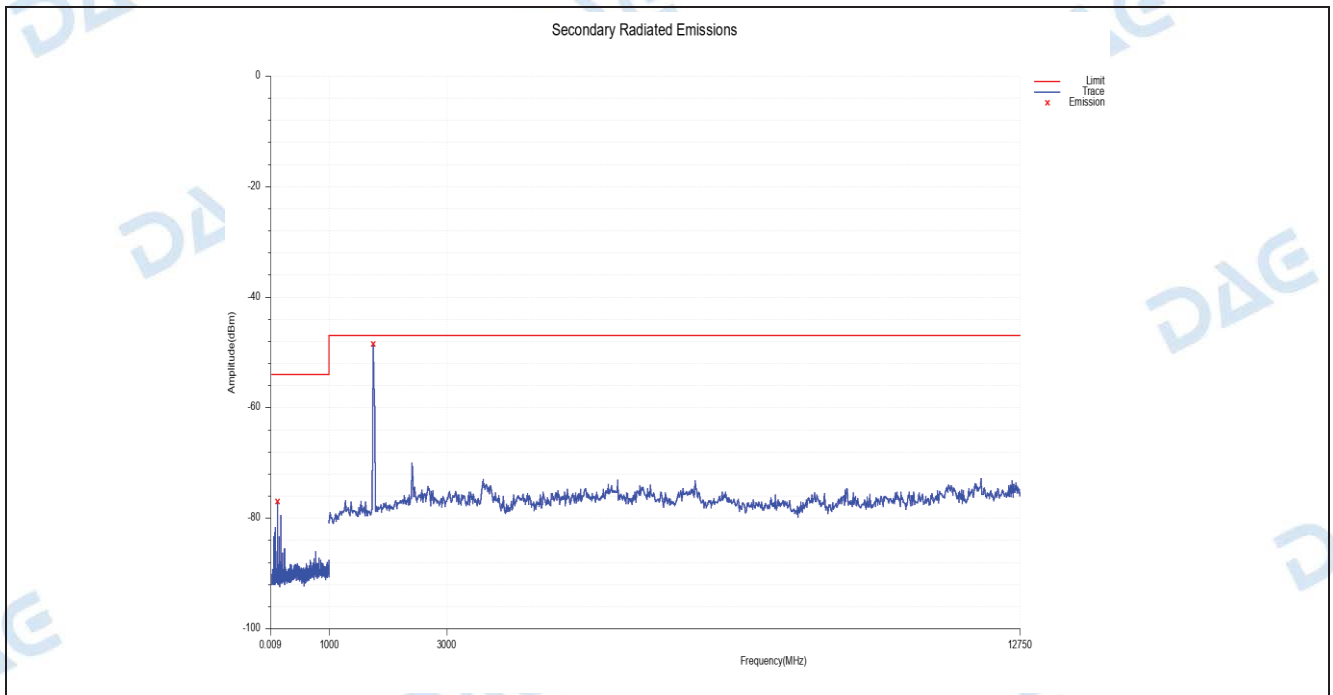


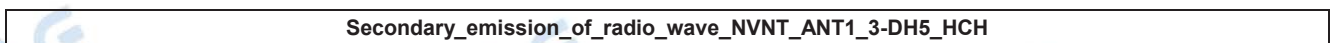
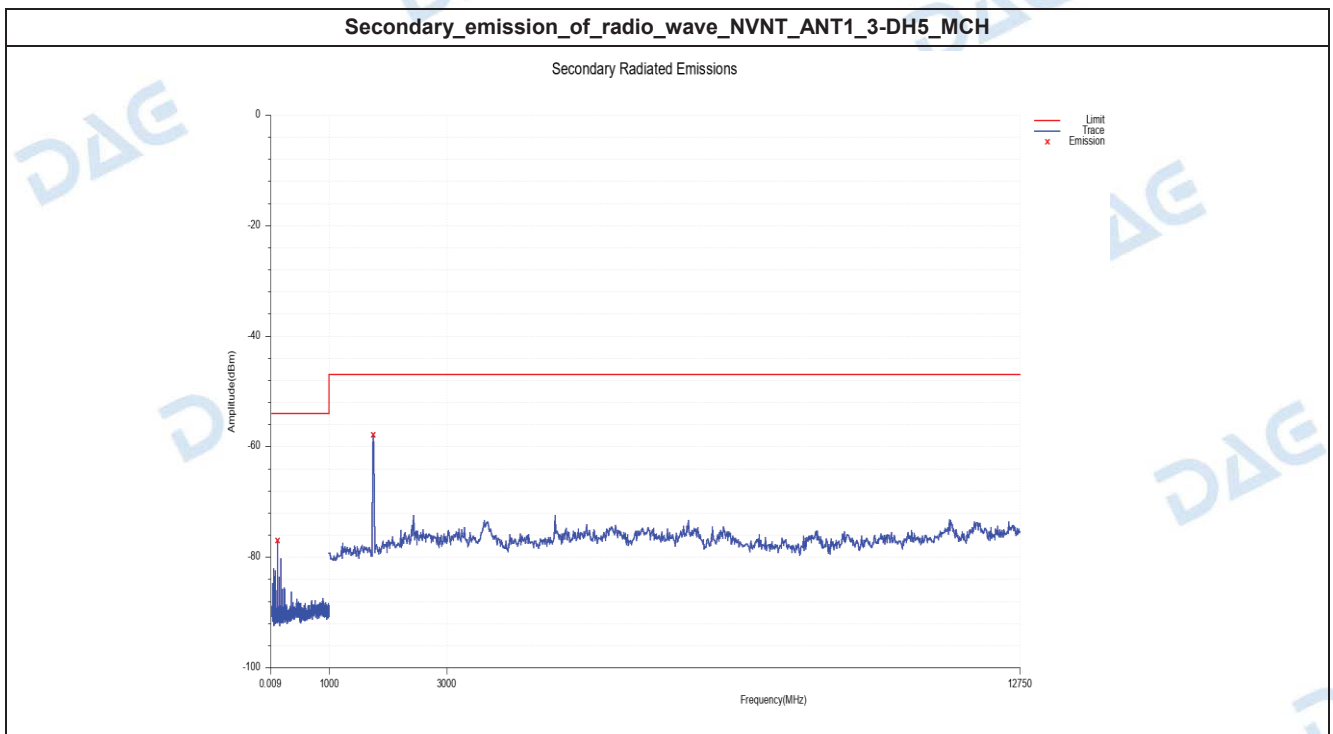
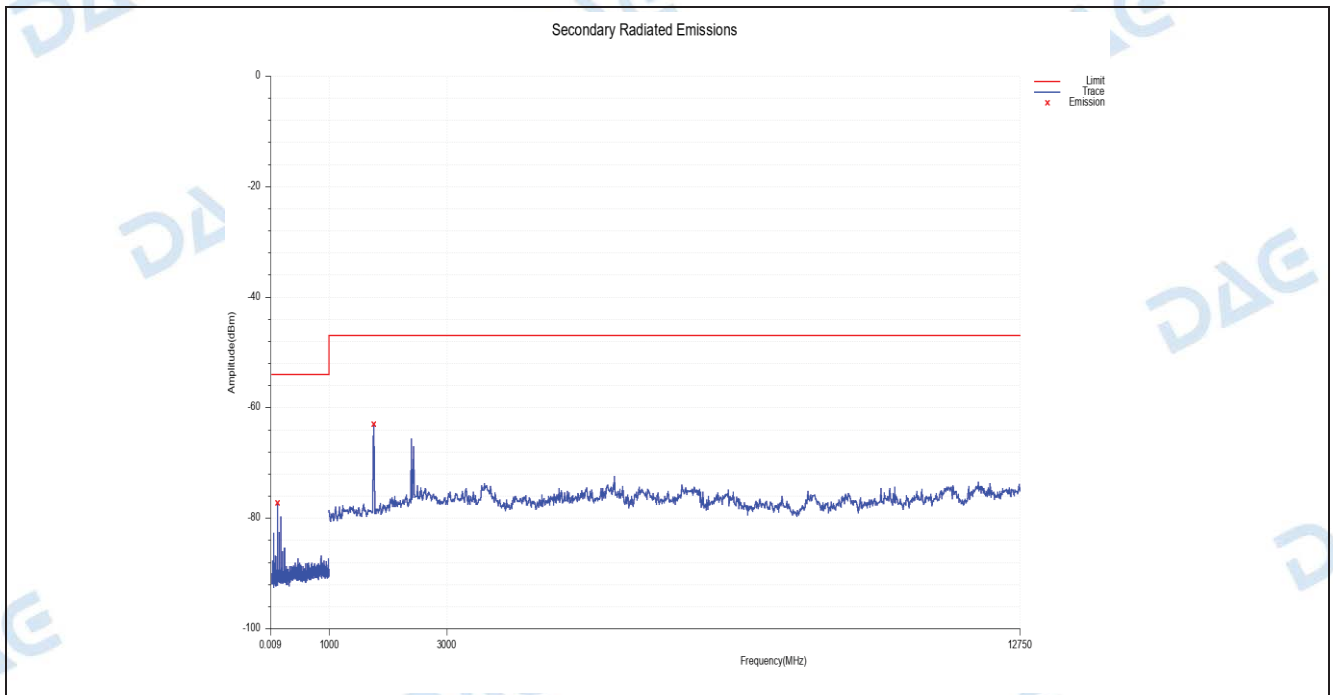


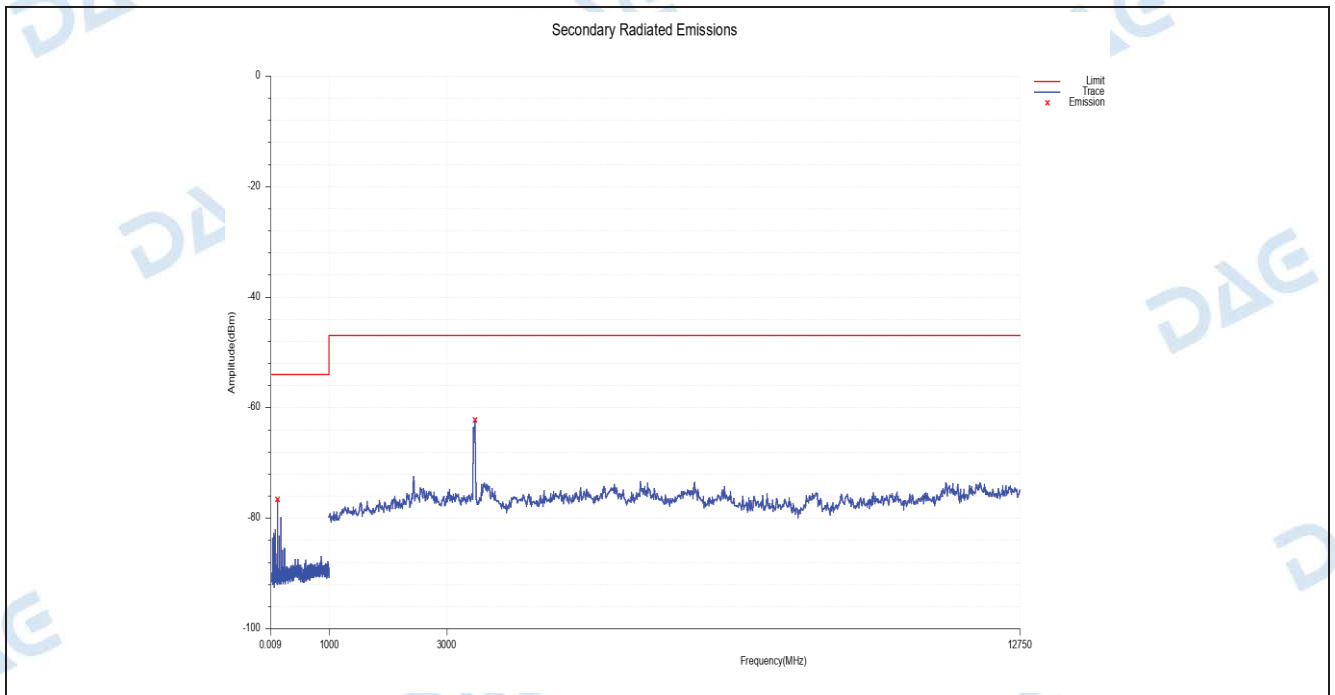
#### Secondary\_emission\_of\_radio\_wave\_NVNT\_ANT1\_2-DH5\_LCH



#### Secondary\_emission\_of\_radio\_wave\_NVNT\_ANT1\_2-DH5\_MCH







\*\*\*\*\* End of Report \*\*\*\*\*