

# RF TEST REPORT

For

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

**Product Name: PROJECTOR**

**Test Model(s): X5AD**

**Report Reference No.** : DACE260805001RF006

**FCC ID** : 2BFIZ-X5AD2

**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

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**Test Specification Standard** : 47 CFR Part 15.247

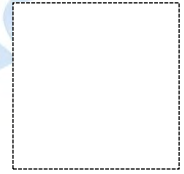
**Date of Receipt** : August 5, 2026

**Date of Test** : August 5, 2026 to August 21, 2026

**Date of Issue** : August 21, 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>                  | : | X5AD                                                                                                                                        |
| <b>Series Model(s)</b>                | : | X5Max, X5MAX, X5GTV, AC1069, X5, X5DD, X5BD, X5CD, X5ED, QV3000, WV3000, SDT2602, PL900GTV, PL800GTV, PL800, PL900                          |
| <b>Test Specification Standard(s)</b> | : | 47 CFR Part 15.247                                                                                                                          |

### 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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August 21, 2026

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August 21, 2026

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August 21, 2026

## Revision History Of Report

| Version | Description | REPORT No.         | Issue Date      |
|---------|-------------|--------------------|-----------------|
| V1.0    | Original    | DACE260805001RF006 | August 21, 2026 |
|         |             |                    |                 |
|         |             |                    |                 |
|         |             |                    |                 |
|         |             |                    |                 |

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# 1 TEST SUMMARY

## 1.1 Test Standards

The tests were performed according to following standards:

**47 CFR Part 15.247:** Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

## 1.2 Summary of Test Result

| Item                                        | Standard           | Method                                                                                                                               | Requirement                      | Result |
|---------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------|
| Antenna requirement                         | 47 CFR Part 15.247 | ---                                                                                                                                  | 47 CFR 15.203                    | Pass   |
| Conducted Emission at AC power line         | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2                                                     | 47 CFR 15.207(a)                 | Pass   |
| 6dB Bandwidth                               | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8<br>KDB 558074 D01<br>15.247 Meas Guidance v05r02  | 47 CFR 15.247(a)(2)              | Pass   |
| Maximum Conducted Output Power              | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1<br>KDB 558074 D01<br>15.247 Meas Guidance v05r02 | 47 CFR 15.247(b)(3)              | Pass   |
| Power Spectral Density                      | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10<br>KDB 558074 D01<br>15.247 Meas Guidance v05r02 | 47 CFR 15.247(e)                 | Pass   |
| Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11<br>KDB 558074 D01<br>15.247 Meas Guidance v05r02  | 47 CFR 15.247(d)                 | Pass   |
| Band edge emissions (Radiated)              | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10<br>KDB 558074 D01                                  | 47 CFR 15.247(d), 15.209, 15.205 | Pass   |

|                                           |                    |                                                                                                                                     |                                  |      |
|-------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------|
|                                           |                    | 15.247 Meas Guidance v05r02                                                                                                         |                                  |      |
| Emissions in frequency bands (below 1GHz) | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4<br>KDB 558074 D01<br>15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (above 1GHz) | 47 CFR Part 15.247 | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4<br>KDB 558074 D01<br>15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | 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: | X5AD                                                                                                                                                                     |
| Series Model:         | X5Max, X5MAX, X5GTV, AC1069, X5, X5DD, X5BD, X5CD, X5ED, QV3000, WV3000, SDT2602, PL900GTV, PL800GTV, PL800, PL900                                                       |
| Model Difference:     | All the model are the same circuit and RF module, only the model name, appearance color and appearance panel stripes and printing are different. Test sample model: X5AD |
| Trade Mark:           | N/A                                                                                                                                                                      |
| Power Supply:         | 100-240V~, 50/60Hz, 2.5A                                                                                                                                                 |
| Operation Frequency:  | 2402-2480MHz                                                                                                                                                             |
| Number of Channels:   | 40CH                                                                                                                                                                     |
| Modulation Type:      | GFSK                                                                                                                                                                     |
| Antenna Type:         | Internal Antenna                                                                                                                                                         |
| Antenna Gain:         | 2.56dBi                                                                                                                                                                  |
| Hardware Version:     | V1.0                                                                                                                                                                     |
| Software Version:     | V1.0                                                                                                                                                                     |

### 2.3 Description of Test Modes

| No               | Title   | Description              |
|------------------|---------|--------------------------|
| TM1              | TX mode | Keep the EUT in TX mode  |
| Test Environment |         | Normal Voltage(AC): 120V |

### 2.4 Description of Support Units

The EUT was tested as an independent device.

## 2.5 Operation Frequency each of channel

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

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, 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)   |
|-----------------|-------------------|
|                 | BLE(1Mbps, 2Mbps) |
| Lowest channel  | 2402MHz           |
| Middle channel  | 2440MHz           |
| Highest channel | 2480MHz           |

## 2.6 Equipments Used During The Test

| Conducted Emission at AC power line |                 |                                                  |                            |            |              |
|-------------------------------------|-----------------|--------------------------------------------------|----------------------------|------------|--------------|
| Equipment                           | Manufacturer    | Model No                                         | Inventory No               | Cal Date   | Cal Due Date |
| Power absorbing clamp               | SCHWARZ BECK    | MESS-ELEKTRONIK                                  | /                          | 2026-04-14 | 2027-04-13   |
| Electric Network                    | SCHWARZ BECK    | CAT5 8158                                        | CAT5 8158#207              | 2026-04-14 | 2027-04-13   |
| Cable                               | SCHWARZ BECK    | /                                                | /                          | 2026-04-14 | 2027-04-13   |
| Pulse Limiter                       | SCHWARZ BECK    | VTSD 9561-F<br>Pulse limiter 10dB<br>Attenuation | 561-G071                   | 2025-12-02 | 2026-12-01   |
| Test Receiver                       | Rohde & Schwarz | ESPI TEST RECEIVER                               | 1164.6607K03<br>-102109-MH | 2026-04-14 | 2027-04-13   |
| L.I.S.N                             | R&S             | ESH3-Z5                                          | 831.5518.52                | 2026-04-14 | 2027-04-13   |
| L.I.S.N                             | SCHWARZ BECK    | NSLK 8126                                        | 05055                      | 2026-04-14 | 2027-04-13   |
| Pulse Limiter                       | CYBERTEK        | EM5010A                                          | /                          | 2026-04-14 | 2027-04-13   |
| EMI test software                   | Farad           | EZ -EMC                                          | EMEC-3A1.1                 | /          | /            |

**6dB Bandwidth**  
**Maximum Conducted Output Power**  
**Power Spectral Density**  
**Emissions in non-restricted frequency bands**

| 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       | /          | /            |
| Power divider                       | MIDEWEST                                           | PWD-2533 | SMA-79       | 2026-04-16 | 2027-04-15   |
| RF Power Sensor Unit                | Tachoy Information Technology(she n zhen) Co.,Ltd. | TR1029-2 | 20220428P005 | /          | /            |
| Wideband radio communication tester | R&S                                                | CMW500   | 113410       | 2026-04-14 | 2027-04-13   |
| Signal Generator                    | Keysight                                           | N5181A   | MY50143455   | 2025-12-02 | 2026-12-01   |
| Vector Signal Generator             | Keysight                                           | N5182A   | MY48180415   | 2025-12-02 | 2026-12-01   |
| Spectrum Analyzer                   | Keysight                                           | N9020A   | MY53420323   | 2025-12-02 | 2026-12-01   |
| RF Control Unit                     | Tachoy Information Technology(she n zhen) Co.,Ltd. | TR1029-1 | 20220428C005 | /          | /            |
| Power meter                         | Agilent                                            | E4416    | MY48200166   | 2025-12-06 | 2026-12-05   |

**Band edge emissions (Radiated)**  
**Emissions in frequency bands (below 1GHz)**  
**Emissions in frequency bands (above 1GHz)**

| Equipment                           | Manufacturer   | Model No         | Inventory No           | Cal Date   | Cal Due Date |
|-------------------------------------|----------------|------------------|------------------------|------------|--------------|
| EMI Test software                   | Farad          | EZ -EMC          | FA-03A2 RE+            | /          | /            |
| 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               | 2026-04-14 | 2027-04-13   |
| Cable(LF)#2                         | Schwarzbeck    | /                | /                      | 2026-04-13 | 2027-04-12   |
| Cable(LF)#1                         | Schwarzbeck    | /                | /                      | 2026-04-14 | 2027-04-13   |
| Cable(HF)#2                         | Schwarzbeck    | AK9515E          | 96250                  | 2026-04-14 | 2027-04-13   |
| Cable(HF)#1                         | Schwarzbeck    | SYV-50-3-1       | /                      | 2026-04-14 | 2027-04-13   |
| Power amplifier(LF)                 | Schwarzbeck    | BBV9743          | 9743-151               | 2026-04-14 | 2027-04-13   |
| Power amplifier(HF)                 | Schwarzbeck    | BBV9718          | 9718-282               | 2026-04-14 | 2027-04-13   |
| Wideband radio communication tester | R&S            | CMW500           | 113410                 | 2026-04-14 | 2027-04-13   |
| Spectrum Analyzer                   | R&S            | FSP30            | 1321.3008K40-101729-jR | 2026-04-14 | 2027-04-13   |
| Test Receiver                       | R&S            | ESCI 3           | 1166.5950K03-101431-Jq | 2026-04-14 | 2027-04-13   |
| Horn Antenna                        | Sunol Sciences | DRH-118          | A091114                | 2026-04-14 | 2027-04-13   |
| Broadband Antenna                   | Sunol Sciences | JB6 Antenna      | A090414                | 2026-04-29 | 2028-04-28   |

## 2.7 Statement Of The Measurement Uncertainty

| Test Item                                                                                                                                         | Measurement Uncertainty |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Conducted Disturbance (0.15~30MHz)                                                                                                                | ±3.41dB                 |
| Occupied Bandwidth                                                                                                                                | ±3.63%                  |
| RF conducted power                                                                                                                                | ±0.733dB                |
| RF power density                                                                                                                                  | ±0.234%                 |
| Conducted Spurious emissions                                                                                                                      | ±1.98dB                 |
| Radiated Emission (Above 1GHz)                                                                                                                    | ±5.46dB                 |
| Radiated Emission (Below 1GHz)                                                                                                                    | ±5.79dB                 |
| 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 Antenna requirement

|                   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. |
| Test Method:      | ---                                                                                                                                                                                                                                                                                                                                                                                 |

##### 3.1.1 Conclusion:



## 4 Radio Spectrum Matter Test Results (RF)

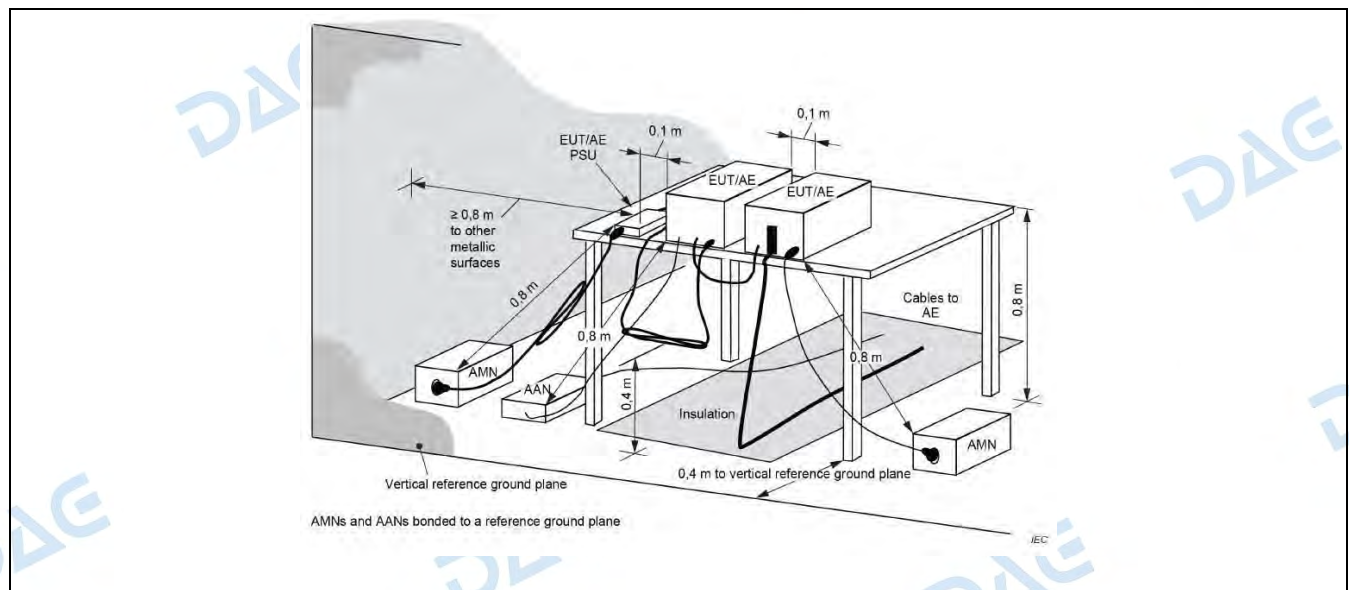
### 4.1 Conducted Emission at AC power line

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |           |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement:                               | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:                                     | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Conducted limit (dB $\mu$ V) |           |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quasi-peak                   | Average   |
|                                                 | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 66 to 56*                    | 56 to 46* |
|                                                 | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56                           | 46        |
|                                                 | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60                           | 50        |
| *Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |           |
| Test Method:                                    | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                |                              |           |
| Procedure:                                      | Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                          |                              |           |

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

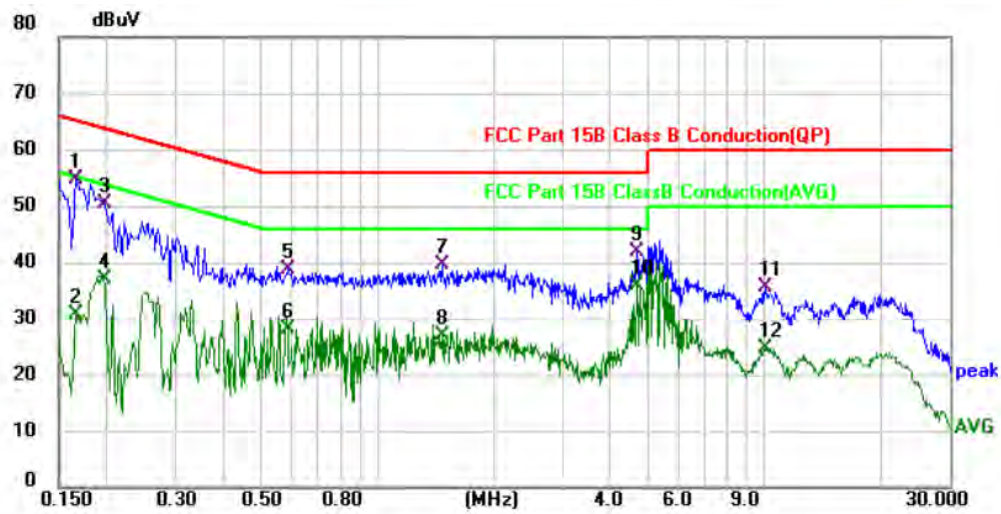
|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 23.3 °C | Humidity: | 47 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode:          | TM1     |           |      |                       |         |
| Final test mode:       | TM1     |           |      |                       |         |

#### 4.1.2 Test Setup Diagram:



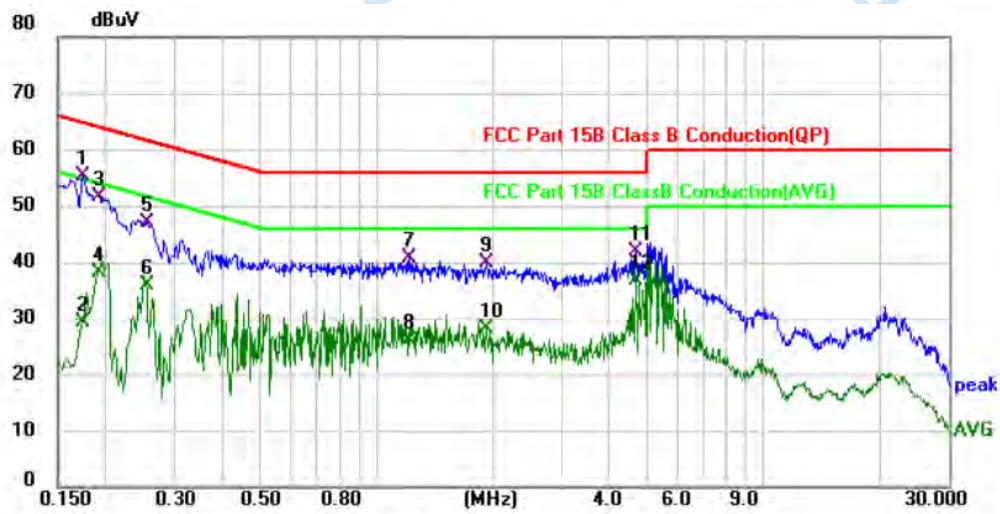
### 4.1.3 Test Data:

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1660       | 44.76                    | 9.98                    | 54.74                    | 65.16         | -10.42     | QP       |         |
| 2   |     | 0.1660       | 20.75                    | 9.98                    | 30.73                    | 55.16         | -24.43     | AVG      |         |
| 3   |     | 0.1965       | 40.43                    | 9.98                    | 50.41                    | 63.76         | -13.35     | QP       |         |
| 4   |     | 0.1965       | 26.89                    | 9.98                    | 36.87                    | 53.76         | -16.89     | AVG      |         |
| 5   |     | 0.5860       | 28.82                    | 9.99                    | 38.81                    | 56.00         | -17.19     | QP       |         |
| 6   |     | 0.5860       | 18.06                    | 9.99                    | 28.05                    | 46.00         | -17.95     | AVG      |         |
| 7   |     | 1.4700       | 29.77                    | 9.89                    | 39.66                    | 56.00         | -16.34     | QP       |         |
| 8   |     | 1.4700       | 17.22                    | 9.89                    | 27.11                    | 46.00         | -18.89     | AVG      |         |
| 9   |     | 4.6860       | 31.84                    | 9.88                    | 41.72                    | 56.00         | -14.28     | QP       |         |
| 10  | *   | 4.6860       | 25.99                    | 9.88                    | 35.87                    | 46.00         | -10.13     | AVG      |         |
| 11  |     | 10.0380      | 25.75                    | 9.73                    | 35.48                    | 60.00         | -24.52     | QP       |         |
| 12  |     | 10.0380      | 15.06                    | 9.73                    | 24.79                    | 50.00         | -25.21     | AVG      |         |

TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1740       | 45.30                    | 10.00                   | 55.30                    | 64.77         | -9.47      | QP       |         |
| 2   |     | 0.1740       | 19.28                    | 10.00                   | 29.28                    | 54.77         | -25.49     | AVG      |         |
| 3   |     | 0.1912       | 41.55                    | 10.00                   | 51.55                    | 63.98         | -12.43     | QP       |         |
| 4   |     | 0.1912       | 28.14                    | 10.00                   | 38.14                    | 53.98         | -15.84     | AVG      |         |
| 5   |     | 0.2540       | 37.04                    | 9.99                    | 47.03                    | 61.63         | -14.60     | QP       |         |
| 6   |     | 0.2540       | 25.73                    | 9.99                    | 35.72                    | 51.63         | -15.91     | AVG      |         |
| 7   |     | 1.2100       | 30.72                    | 9.97                    | 40.69                    | 56.00         | -15.31     | QP       |         |
| 8   |     | 1.2100       | 16.19                    | 9.97                    | 26.16                    | 46.00         | -19.84     | AVG      |         |
| 9   |     | 1.9260       | 29.90                    | 9.82                    | 39.72                    | 56.00         | -16.28     | QP       |         |
| 10  |     | 1.9260       | 18.21                    | 9.82                    | 28.03                    | 46.00         | -17.97     | AVG      |         |
| 11  |     | 4.6860       | 32.12                    | 9.78                    | 41.90                    | 56.00         | -14.10     | QP       |         |
| 12  | *   | 4.6860       | 26.81                    | 9.78                    | 36.59                    | 46.00         | -9.41      | AVG      |         |

NOTE:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor, Over = Limit - Measurement

## 4.2 6dB Bandwidth

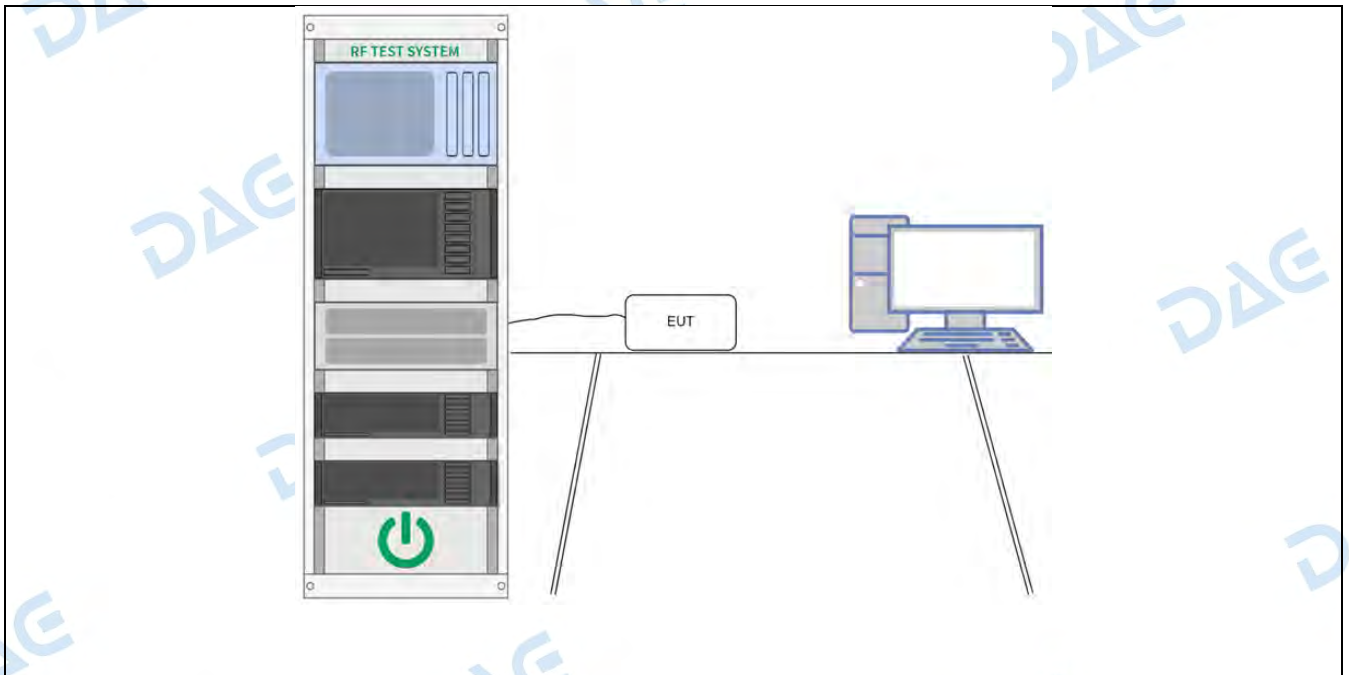
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:       | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Procedure:        | <p>11.8.1 Option 1</p> <p>The steps for the first option are as follows:</p> <p>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</p> <p>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</p> <p>c) Detector = peak.</p> <p>d) Trace mode = max-hold.</p> <p>e) Sweep = No faster than coupled (auto) time.</p> <p>f) Allow the trace to stabilize.</p> <p>g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.</p> <p>11.8.2 Option 2</p> <p>The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW <math>\geq 3 \times \text{RBW}</math>, and peak detector with maximum hold) is implemented by the instrumentation function.</p> <p>When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be <math>\geq 6</math> dB.</p> |

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

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 22.7 °C | Humidity: | 50 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode:          | TM1     |           |      |                       |         |
| Final test mode:       | TM1     |           |      |                       |         |

### 4.2.2 Test Setup Diagram:

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|--|



#### 4.2.3 Test Data:

Please Refer to Appendix for Details.

### 4.3 Maximum Conducted Output Power

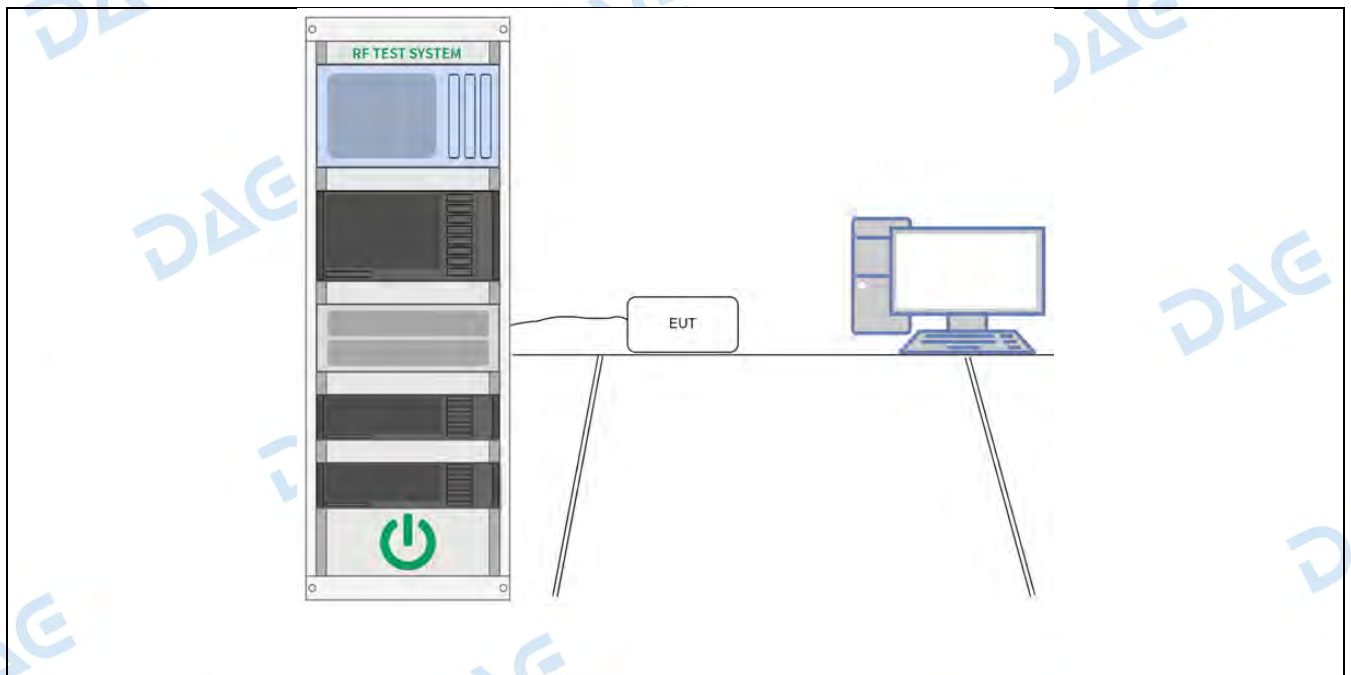
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.                                                                                                                                                                                                         |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Procedure:        | ANSI C63.10-2020, section 11.9.2 Maximum conducted (average) output power<br><br>Note:<br>Per ANSI C63.10-2020, if there are two or more antennas, the conducted powers at Core 0, Core 1,..., Core i were first measured separately, as shown in the section above (this product only have one antenna). The measured values were then summed in linear power units then converted back to dBm.<br>Per ANSI C63.10-2020 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used.<br>For correlated unequal antenna gain<br>Directional gain = $10 \cdot \log[(10G_1/20 + 10G_2/20 + \dots + 10G_N/20)^2 / NANT]$ dBi<br>For completely uncorrelated unequal antenna gain<br>Directional gain = $10 \cdot \log[(10G_1/10 + 10G_2/10 + \dots + 10G_N/10) / NANT]$ dBi<br>Sample Multiple antennas Calculation: Core 0 + Core 1 + ... Core i. = MIMO/CDD<br>(i is the number of antennas)<br>(#VALUE! mW + mW) = #VALUE! mW = dBm<br>Sample e.i.r.p. Calculation:<br>e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi) |

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

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 23.5 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode:          | TM1     |           |      |                       |         |
| Final test mode:       | TM1     |           |      |                       |         |

#### 4.3.2 Test Setup Diagram:

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|  |
|--|



#### 4.3.3 Test Data:

Please Refer to Appendix for Details.

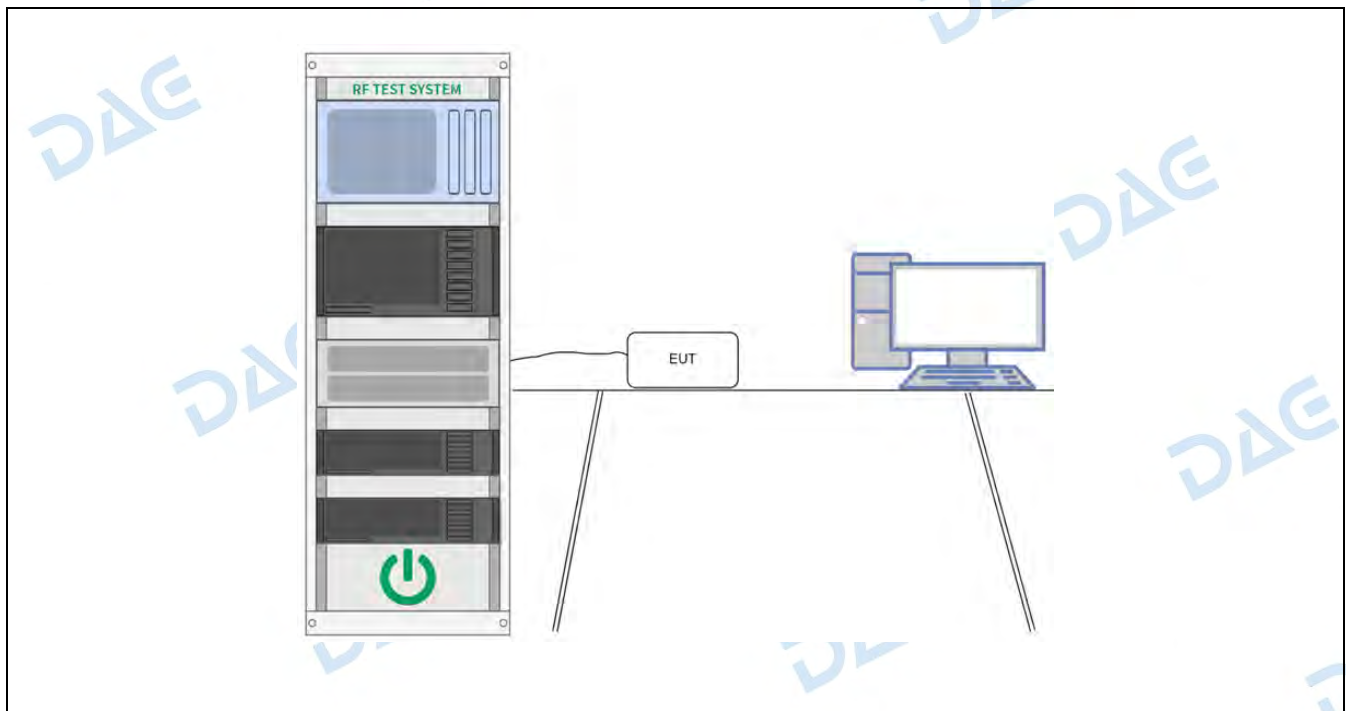
#### 4.4 Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:       | Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                         |
| Procedure:        | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission                                                                                                                                                                                                                                                                                                                                     |

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

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 22.2 °C | Humidity: | 55 % | Atmospheric Pressure: | 101 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.

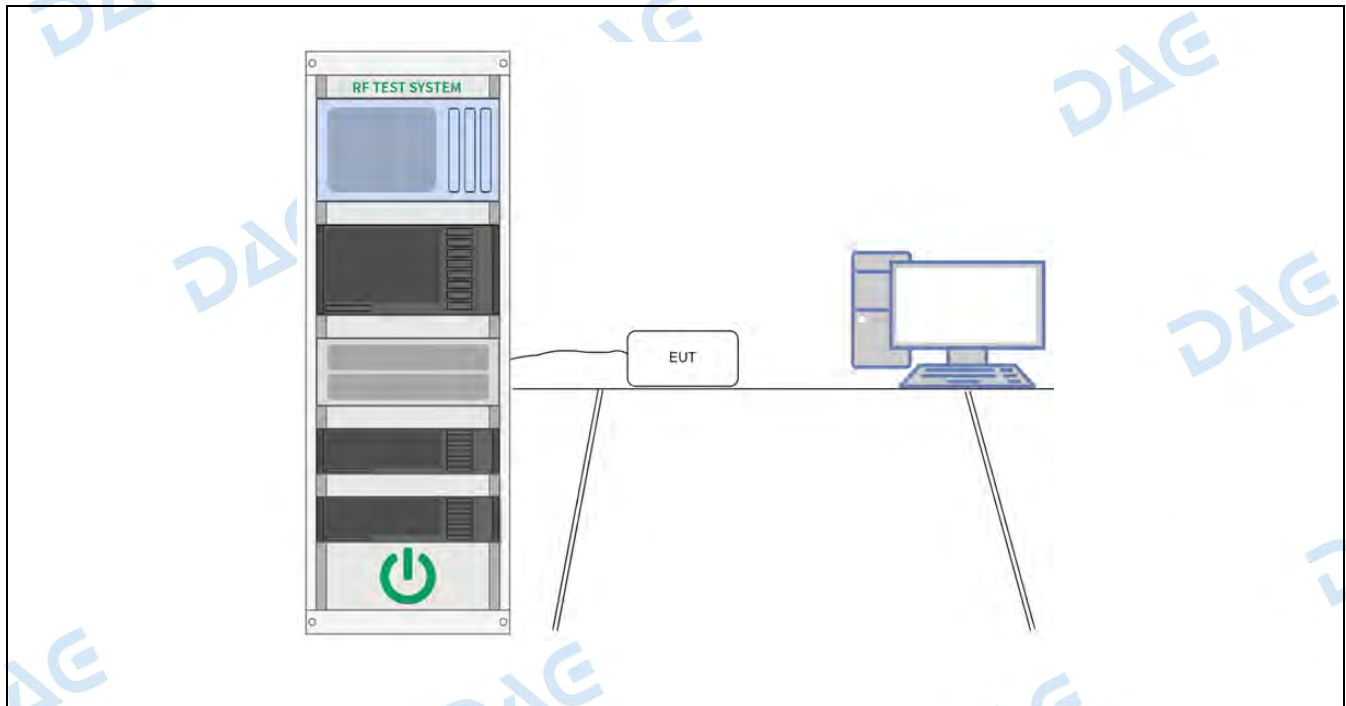
#### 4.5 Emissions in non-restricted frequency bands

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Procedure:        | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 Section 11.11.1, Section 11.11.2, Section 11.11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 23.4 °C | Humidity: | 54 % | Atmospheric Pressure: | 101 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.

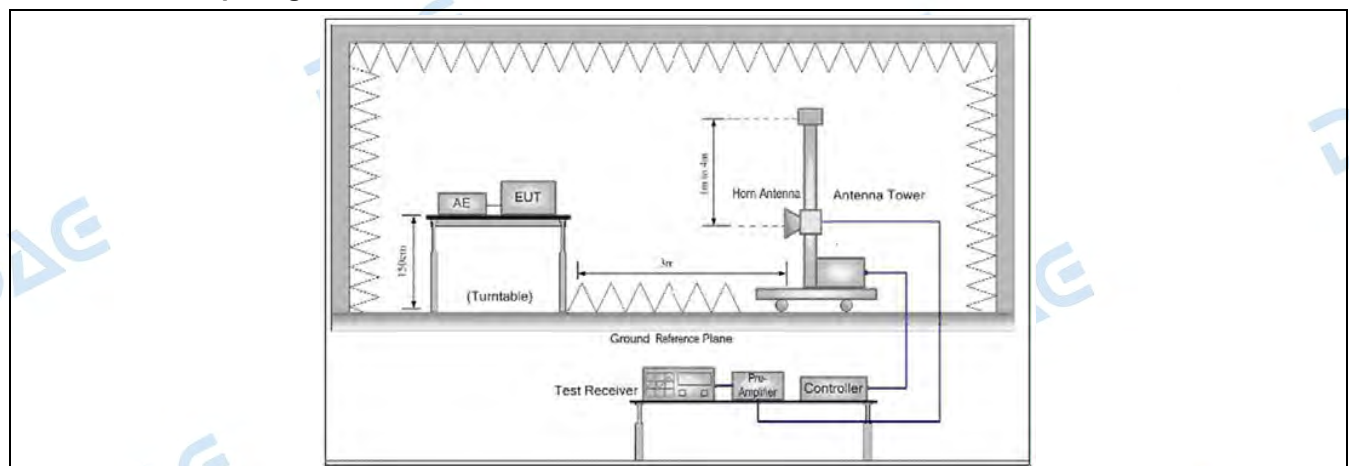
#### 4.6 Band edge emissions (Radiated)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)                                                                                                                                                                                                         | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                             | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                             | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                              | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                   | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                  | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                 | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                               | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                         |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2                                                                                                                                   |                                   |                               |

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

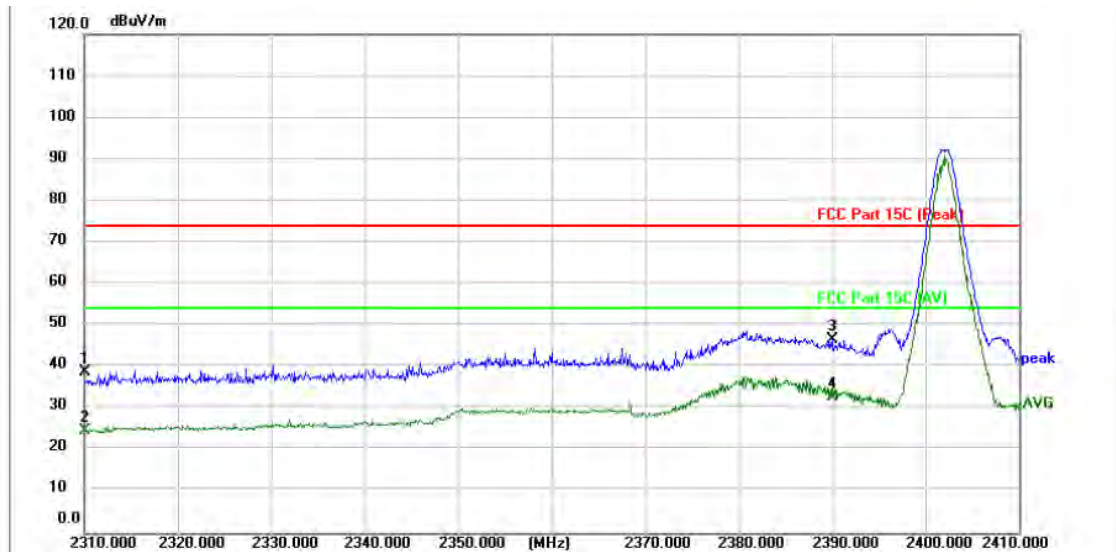
|                        |         |           |      |
|------------------------|---------|-----------|------|
| Operating Environment: |         |           |      |
| Temperature:           | 22.1 °C | Humidity: | 47 % |
| Atmospheric Pressure:  | 101 kPa |           |      |
| Pretest mode:          | TM1     |           |      |
| Final test mode:       | TM1     |           |      |

##### 4.6.2 Test Setup Diagram:



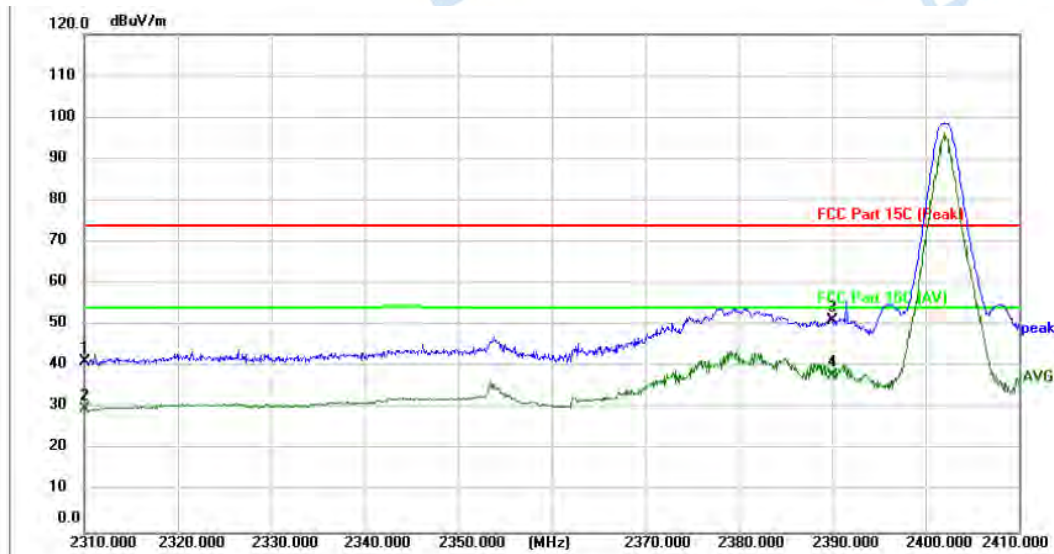
#### 4.6.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



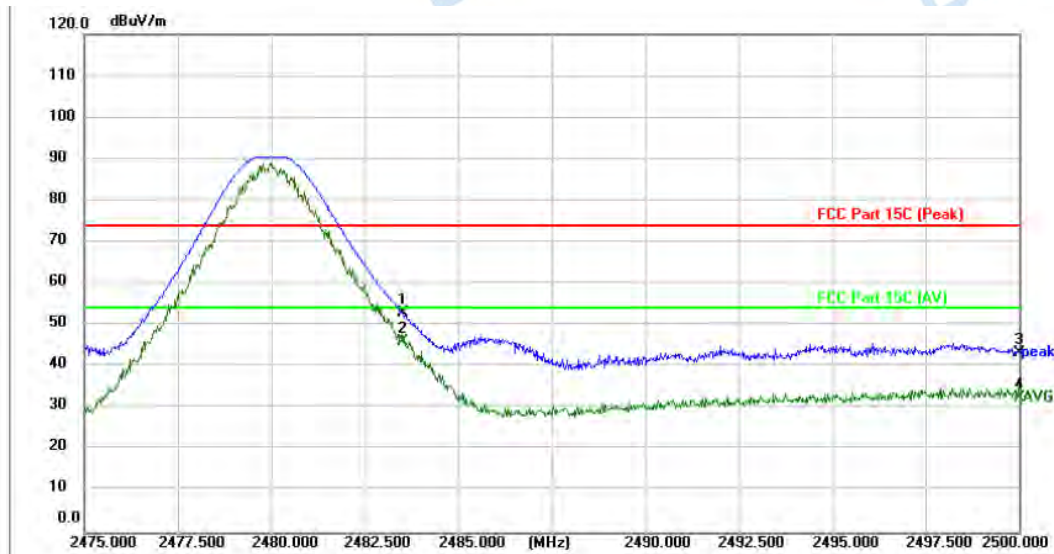
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2310.000        | 45.43          | -6.63         | 38.80          | 74.00          | -35.20      | peak     |             |                | P   |        |
| 2   | 2310.000        | 31.24          | -6.63         | 24.61          | 54.00          | -29.39      | AVG      |             |                | P   |        |
| 3   | 2390.000        | 52.95          | -6.42         | 46.53          | 74.00          | -27.47      | peak     |             |                | P   |        |
| 4 * | 2390.000        | 39.41          | -6.42         | 32.99          | 54.00          | -21.01      | AVG      |             |                | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



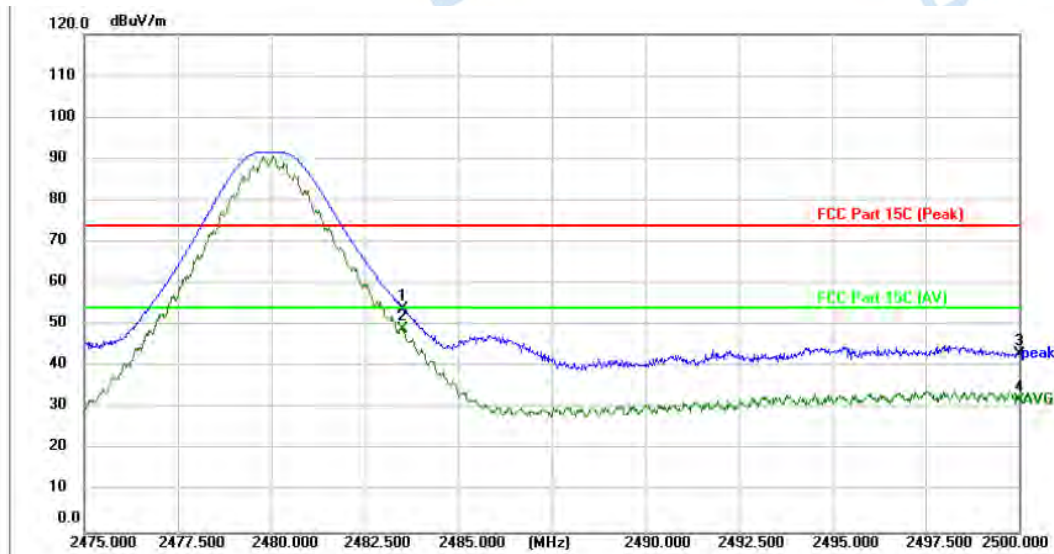
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2310.000        | 47.86          | -6.63         | 41.23          | 74.00          | -32.77      | peak     |             |                | P   |        |
| 2   | 2310.000        | 36.39          | -6.63         | 29.76          | 54.00          | -24.24      | AVG      |             |                | P   |        |
| 3   | 2390.000        | 57.68          | -6.42         | 51.26          | 74.00          | -22.74      | peak     |             |                | P   |        |
| 4 * | 2390.000        | 44.33          | -6.42         | 37.91          | 54.00          | -16.09      | AVG      |             |                | P   |        |

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2483.500        | 59.12          | -6.17         | 52.95          | 74.00          | -21.05      | peak     |             |                | P   |        |
| 2 * | 2483.500        | 52.19          | -6.17         | 46.02          | 54.00          | -7.98       | AVG      |             |                | P   |        |
| 3   | 2500.000        | 49.54          | -6.13         | 43.41          | 74.00          | -30.59      | peak     |             |                | P   |        |
| 4   | 2500.000        | 38.55          | -6.13         | 32.42          | 54.00          | -21.58      | AVG      |             |                | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2483.500        | 60.17          | -6.17         | 54.00          | 74.00          | -20.00      | peak     |             |                | P   |        |
| 2 * | 2483.500        | 55.11          | -6.17         | 48.94          | 54.00          | -5.06       | AVG      |             |                | P   |        |
| 3   | 2500.000        | 49.11          | -6.13         | 42.98          | 74.00          | -31.02      | peak     |             |                | P   |        |
| 4   | 2500.000        | 38.22          | -6.13         | 32.09          | 54.00          | -21.91      | AVG      |             |                | P   |        |

Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

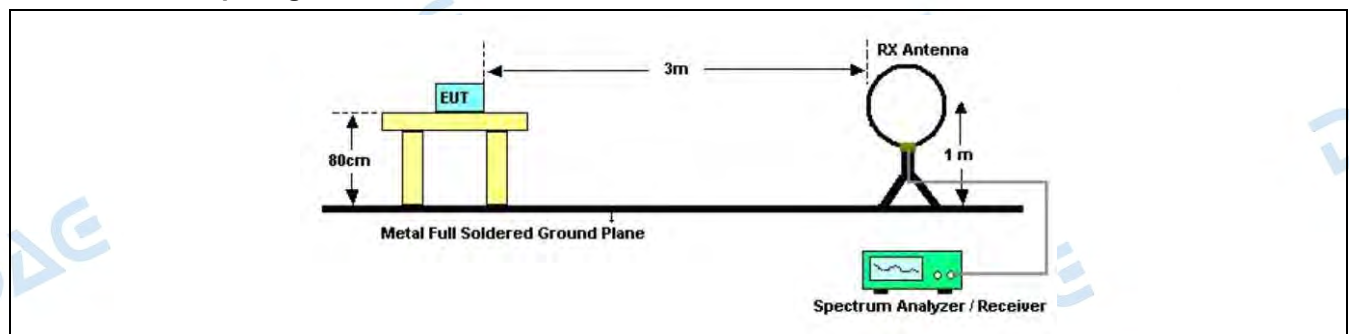
#### 4.7 Emissions in frequency bands (below 1GHz)

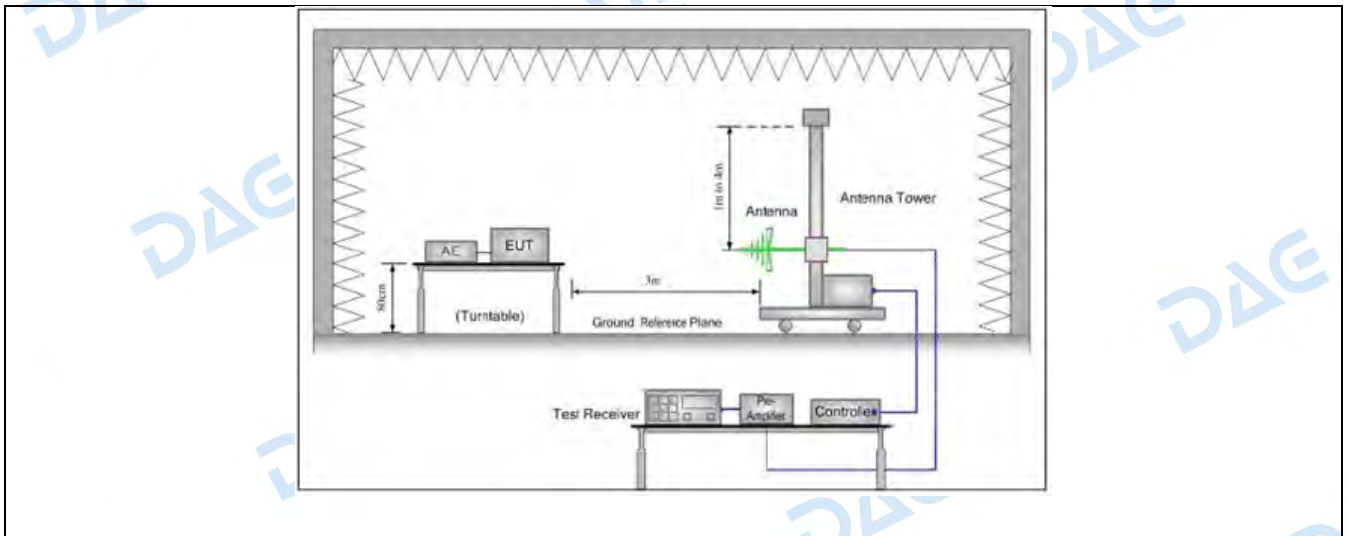
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)                                                                                                                                                                                                         | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                             | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                             | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                              | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                   | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                  | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                 | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                               | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                        |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                      |                                   |                               |

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

|                        |         |           |      |
|------------------------|---------|-----------|------|
| Operating Environment: |         |           |      |
| Temperature:           | 22.7 °C | Humidity: | 48 % |
| Atmospheric Pressure:  | 101 kPa |           |      |
| Pretest mode:          | TM1     |           |      |
| Final test mode:       | TM1     |           |      |

##### 4.7.2 Test Setup Diagram:





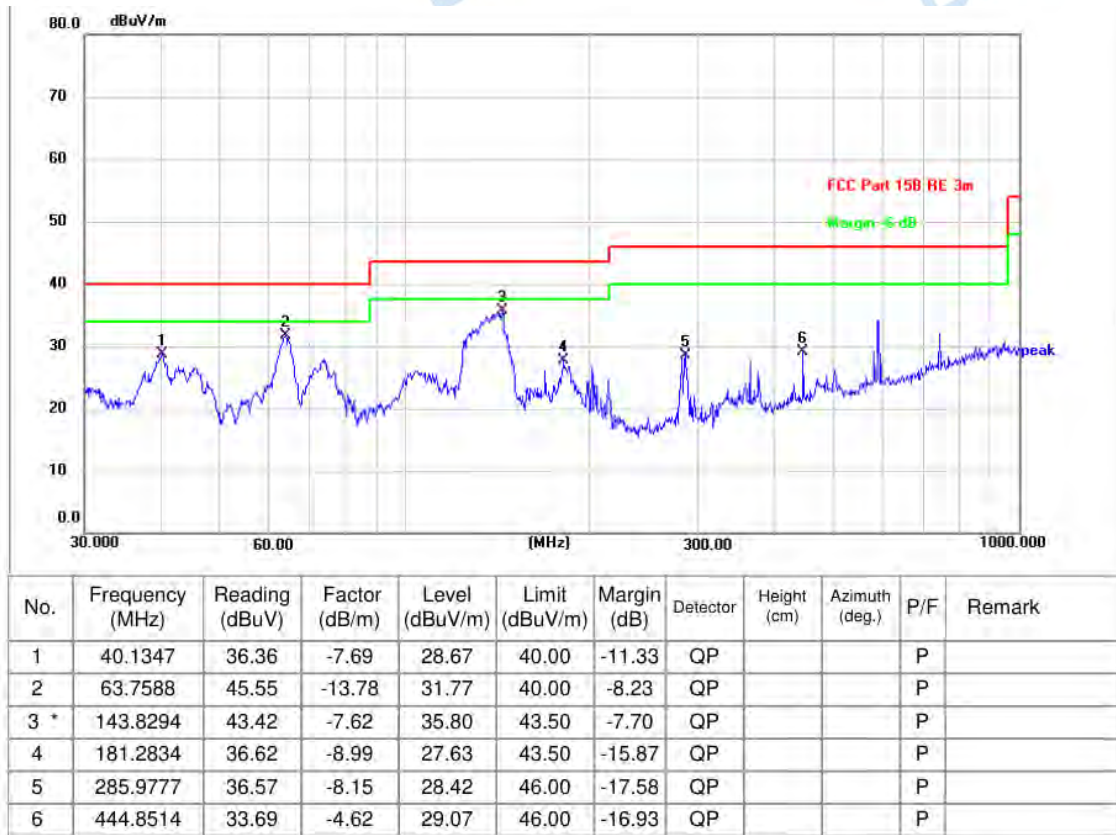
### 4.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 64.6594         | 35.36          | -13.75        | 21.61          | 40.00          | -18.39      | QP       |             |                | P   |        |
| 2   | 143.3260        | 36.30          | -7.11         | 29.19          | 43.50          | -14.31      | QP       |             |                | P   |        |
| 3   | 201.3930        | 37.71          | -9.71         | 28.00          | 43.50          | -15.50      | QP       |             |                | P   |        |
| 4   | 285.9777        | 40.04          | -7.89         | 32.15          | 46.00          | -13.85      | QP       |             |                | P   |        |
| 5   | 588.9050        | 34.16          | -1.82         | 32.34          | 46.00          | -13.66      | QP       |             |                | P   |        |
| 6 * | 742.2586        | 32.35          | 1.25          | 33.60          | 46.00          | -12.40      | QP       |             |                | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be of GFSK 1MHz recorded in the test report.

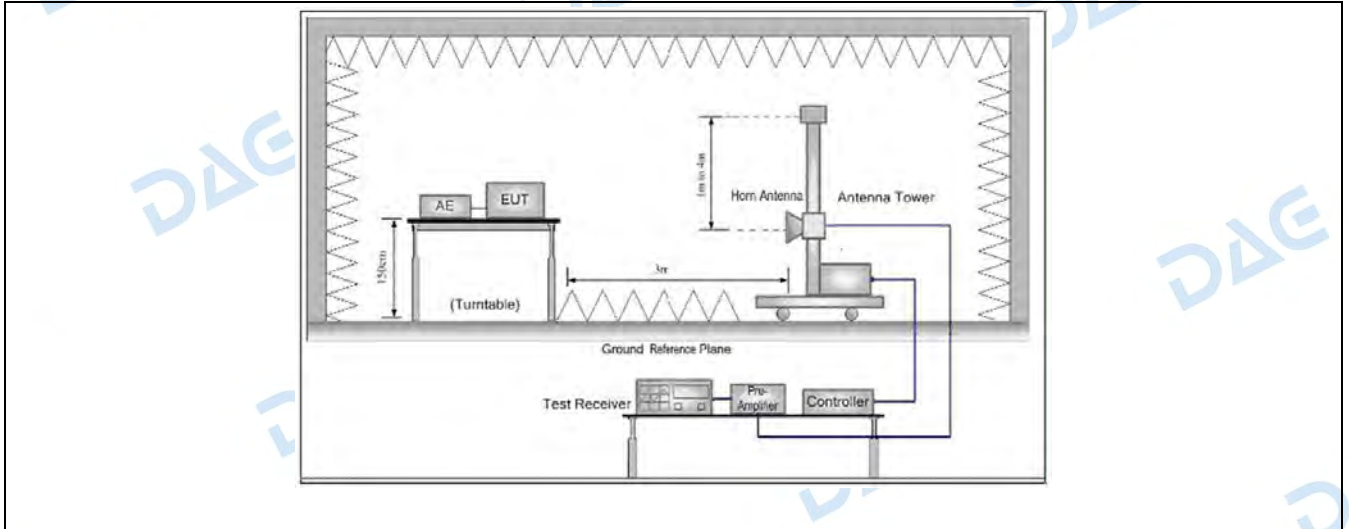
#### 4.8 Emissions in frequency bands (above 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)                                                                                                                                                                                                         | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                             | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                             | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                              | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                   | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                  | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                 | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                               | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4<br>KDB 558074 D01 15.247 Meas Guidance v05r02                                                                                        |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                      |                                   |                               |

##### 4.8.1 E.U.T. Operation:

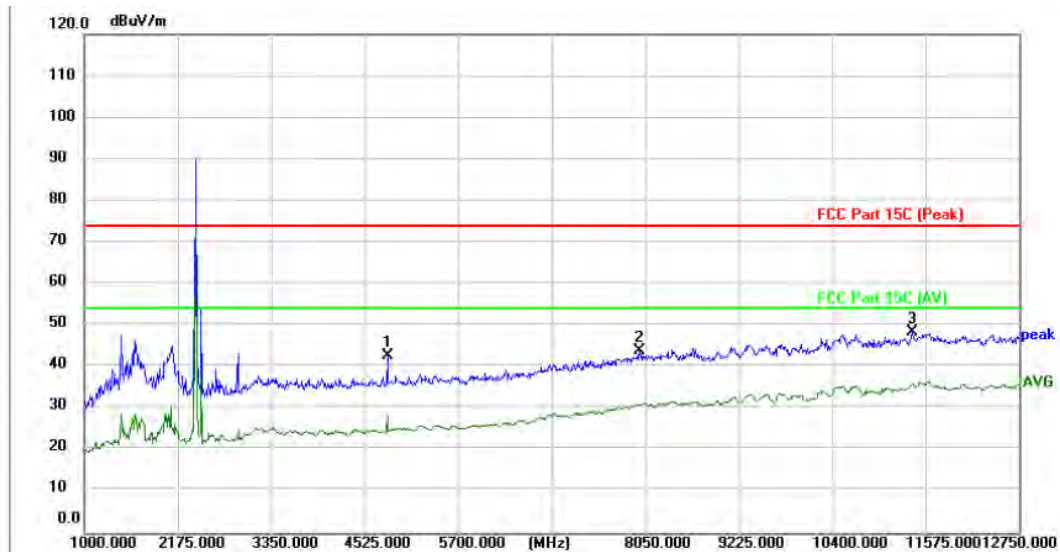
|                        |         |     |           |      |                       |         |
|------------------------|---------|-----|-----------|------|-----------------------|---------|
| Operating Environment: |         |     |           |      |                       |         |
| Temperature:           | 23.6 °C |     | Humidity: | 49 % | Atmospheric Pressure: | 101 kPa |
| Pretest mode:          |         | TM1 |           |      |                       |         |
| Final test mode:       |         | TM1 |           |      |                       |         |

#### 4.8.2 Test Setup Diagram:



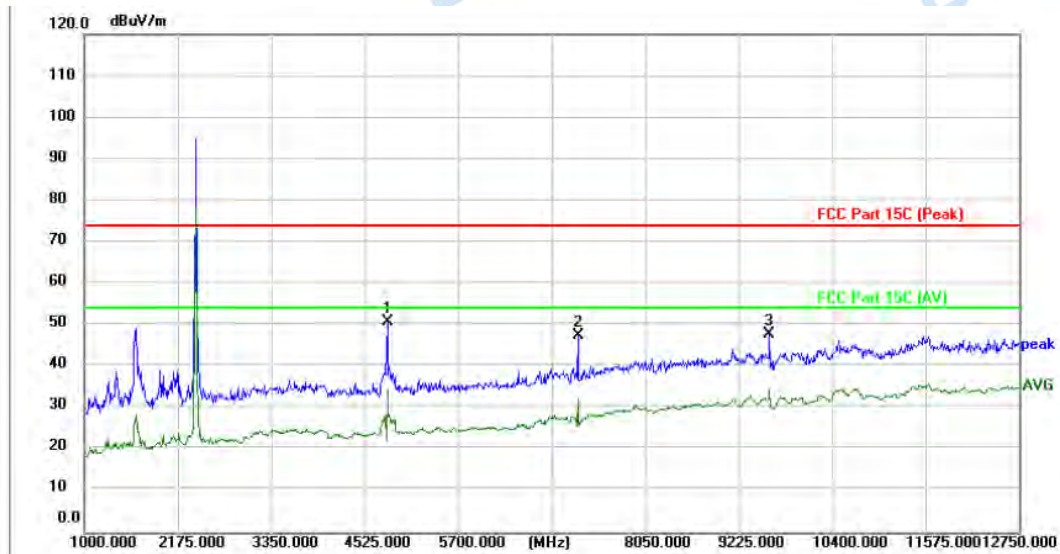
### 4.8.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



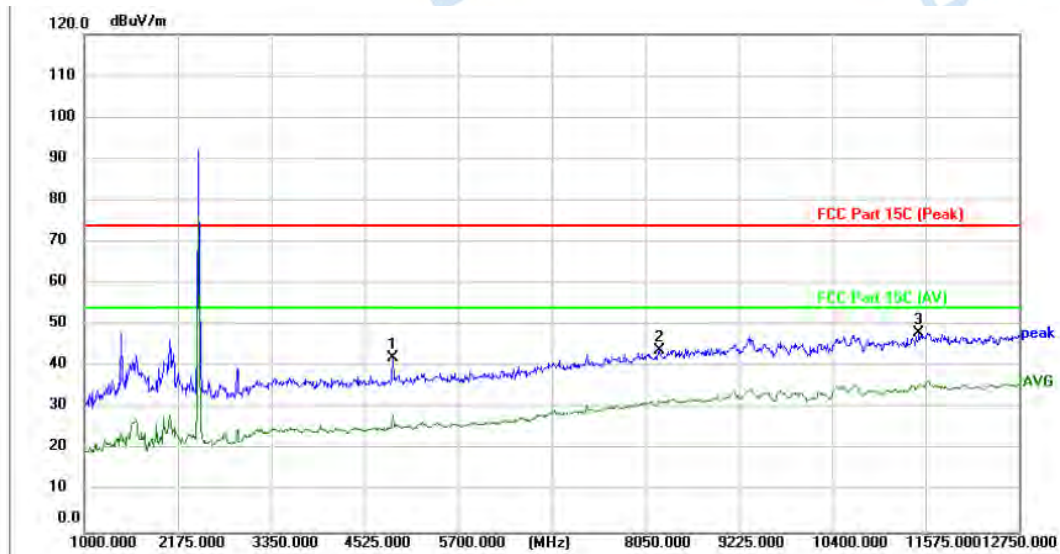
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 4807.000        | 43.58          | -0.69         | 42.89          | 74.00          | -31.11      | peak     |             |                | P   |        |
| 2   | 7979.500        | 37.25          | 6.60          | 43.85          | 74.00          | -30.15      | peak     |             |                | P   |        |
| 3 * | 11410.500       | 38.84          | 9.61          | 48.45          | 74.00          | -25.55      | peak     |             |                | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



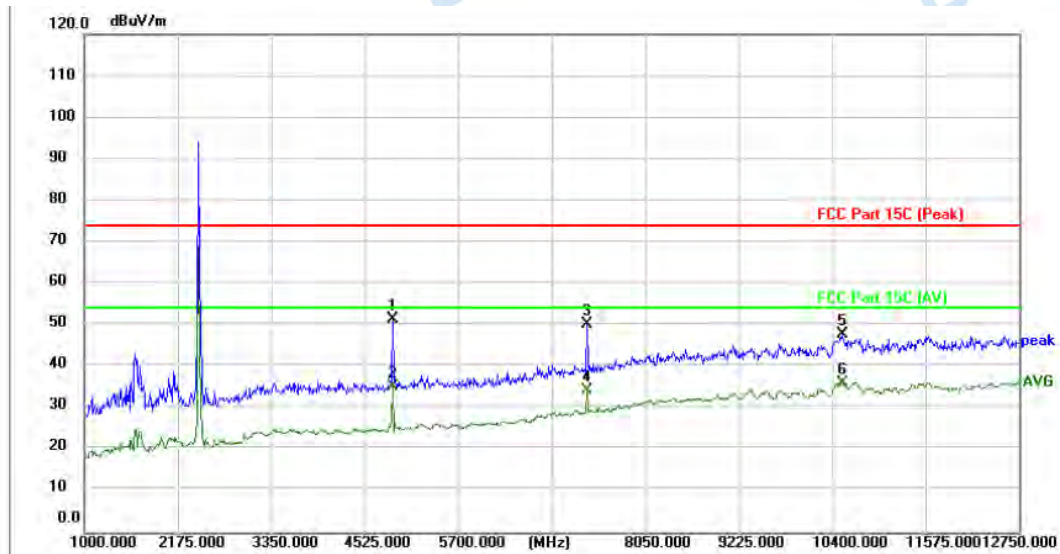
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 4807.000        | 51.66          | -0.69         | 50.97          | 74.00          | -23.03      | peak     |             |                | P   |        |
| 2   | 7204.000        | 43.08          | 4.37          | 47.45          | 74.00          | -26.55      | peak     |             |                | P   |        |
| 3   | 9612.750        | 39.82          | 8.10          | 47.92          | 74.00          | -26.08      | peak     |             |                | P   |        |

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



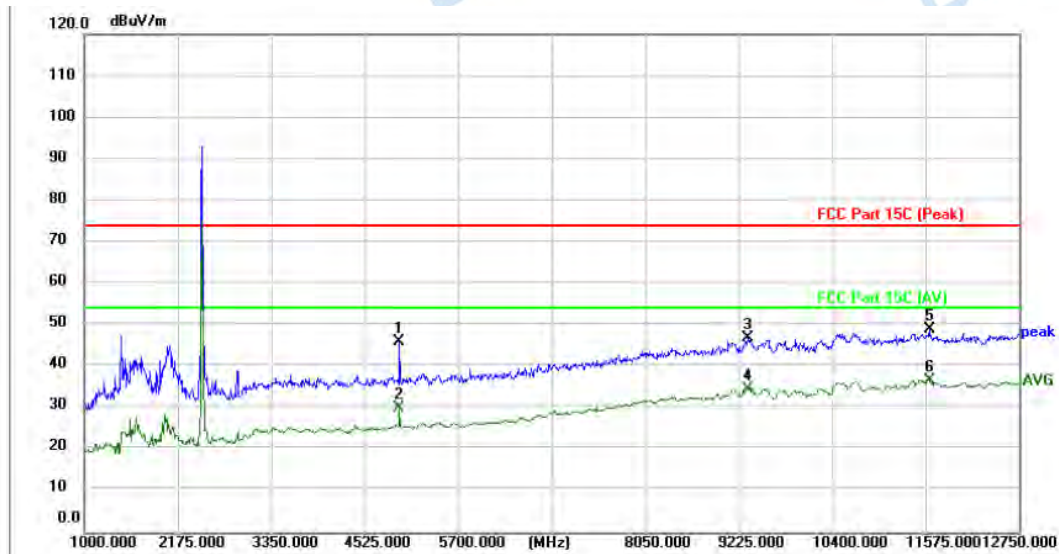
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 4877.500        | 42.74          | -0.45         | 42.29          | 74.00          | -31.71      | peak     |             |                | P   |        |
| 2   | 8226.250        | 36.92          | 7.03          | 43.95          | 74.00          | -30.05      | peak     |             |                | P   |        |
| 3 * | 11492.750       | 38.64          | 9.66          | 48.30          | 74.00          | -25.70      | peak     |             |                | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M



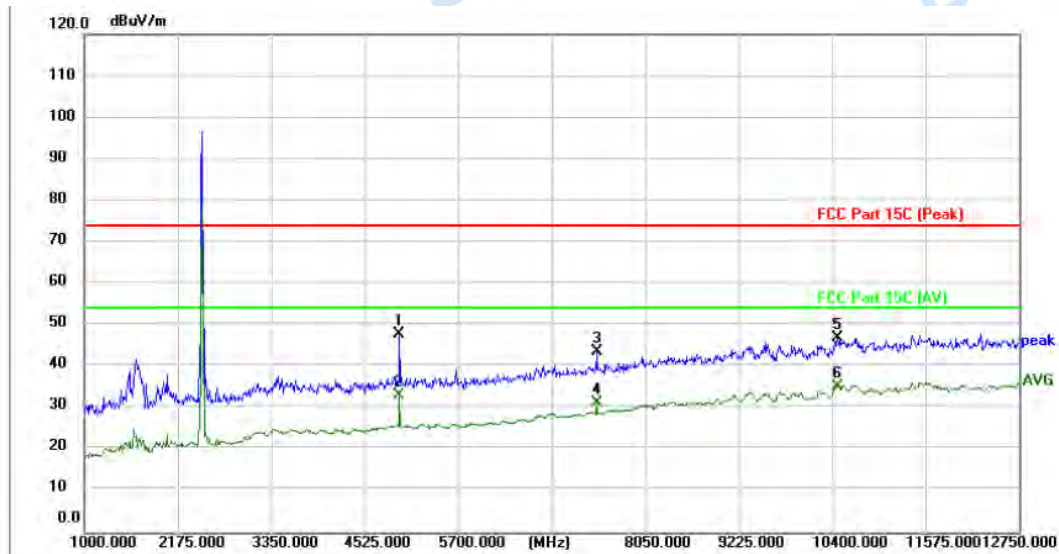
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 4877.500        | 51.86          | -0.45         | 51.41          | 74.00          | -22.59      | peak     |             |                | P   |        |
| 2   | 4877.500        | 35.72          | -0.45         | 35.27          | 54.00          | -18.73      | AVG      |             |                | P   |        |
| 3   | 7321.500        | 45.60          | 4.57          | 50.17          | 74.00          | -23.83      | peak     |             |                | P   |        |
| 4   | 7321.500        | 29.66          | 4.57          | 34.23          | 54.00          | -19.77      | AVG      |             |                | P   |        |
| 5   | 10529.250       | 38.89          | 9.03          | 47.92          | 74.00          | -26.08      | peak     |             |                | P   |        |
| 6 * | 10529.250       | 27.06          | 9.03          | 36.09          | 54.00          | -17.91      | AVG      |             |                | P   |        |

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 4959.750        | 46.16          | -0.17         | 45.99          | 74.00          | -28.01      | peak     |             |                | P   |        |
| 2   | 4959.750        | 30.24          | -0.17         | 30.07          | 54.00          | -23.93      | AVG      |             |                | P   |        |
| 3   | 9342.500        | 38.69          | 8.16          | 46.85          | 74.00          | -27.15      | peak     |             |                | P   |        |
| 4   | 9342.500        | 26.45          | 8.16          | 34.61          | 54.00          | -19.39      | AVG      |             |                | P   |        |
| 5   | 11622.000       | 39.31          | 9.75          | 49.06          | 74.00          | -24.94      | peak     |             |                | P   |        |
| 6 * | 11622.000       | 27.10          | 9.75          | 36.85          | 54.00          | -17.15      | AVG      |             |                | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 4959.750        | 48.07          | -0.17         | 47.90          | 74.00          | -26.10      | peak     |             |                | P   |        |
| 2   | 4959.750        | 33.37          | -0.17         | 33.20          | 54.00          | -20.80      | AVG      |             |                | P   |        |
| 3   | 7439.000        | 38.88          | 4.78          | 43.66          | 74.00          | -30.34      | peak     |             |                | P   |        |
| 4   | 7439.000        | 26.62          | 4.78          | 31.40          | 54.00          | -22.60      | AVG      |             |                | P   |        |
| 5   | 10470.500       | 38.07          | 8.95          | 47.02          | 74.00          | -26.98      | peak     |             |                | P   |        |
| 6 * | 10470.500       | 26.41          | 8.95          | 35.36          | 54.00          | -18.64      | AVG      |             |                | P   |        |

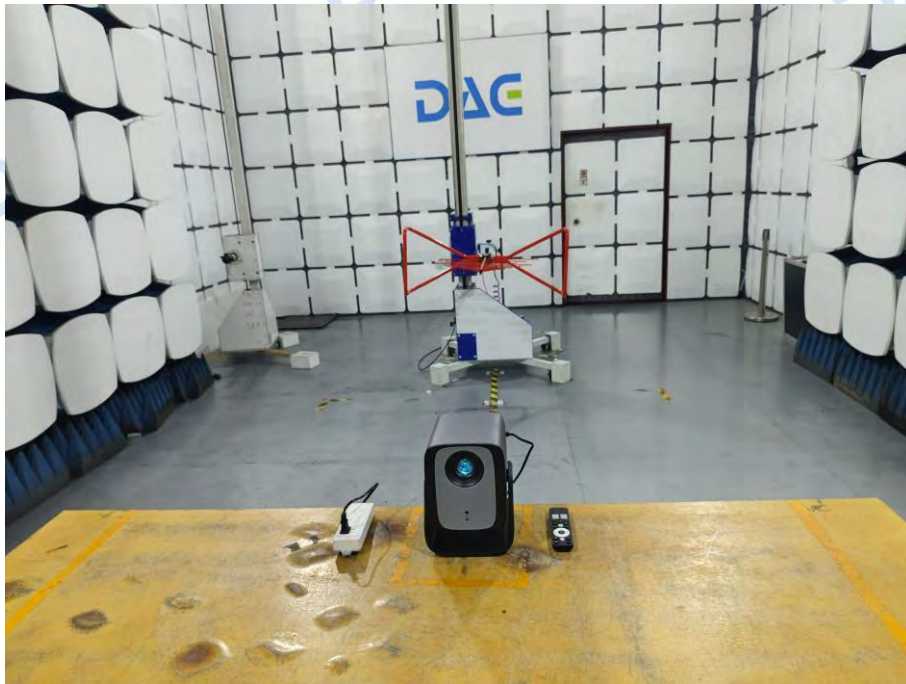
1. Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor
2. Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so the noise floor test chart was not uploaded.
3. All modes have been tested, and the test results show that a-mode data is the worst, only a-mode test chart is put. Test Mode: 802.11a20 low channel (the worst)

## 5 TEST SETUP PHOTOS

**Conducted Emission at AC power line**



**Emissions in frequency bands (below 1GHz)**



**Emissions in frequency bands (above 1GHz)**



## 6 PHOTOS OF THE EUT

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

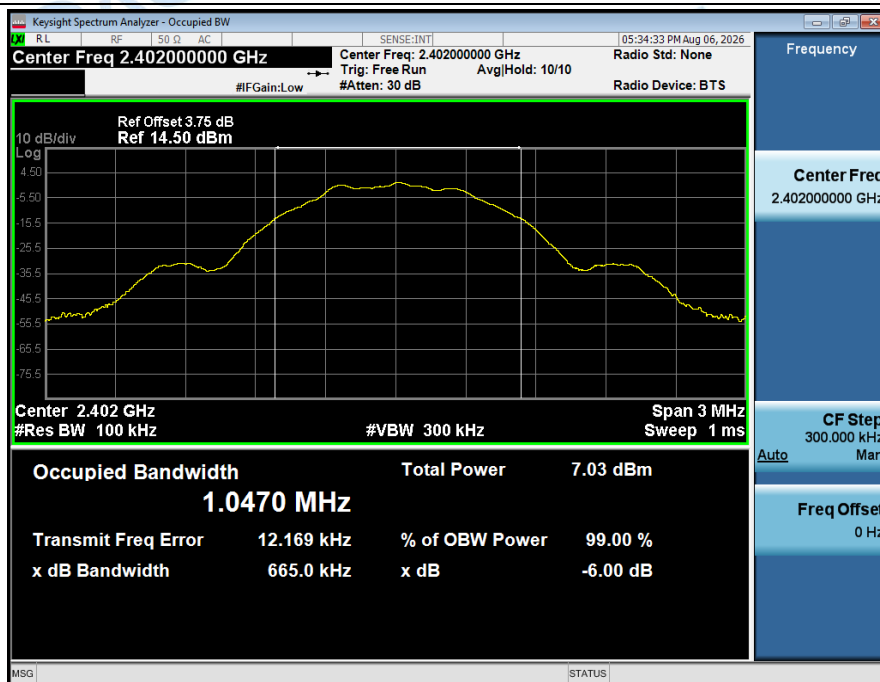
# Appendix

## FCC\_BLE (Part15.247) Test Data

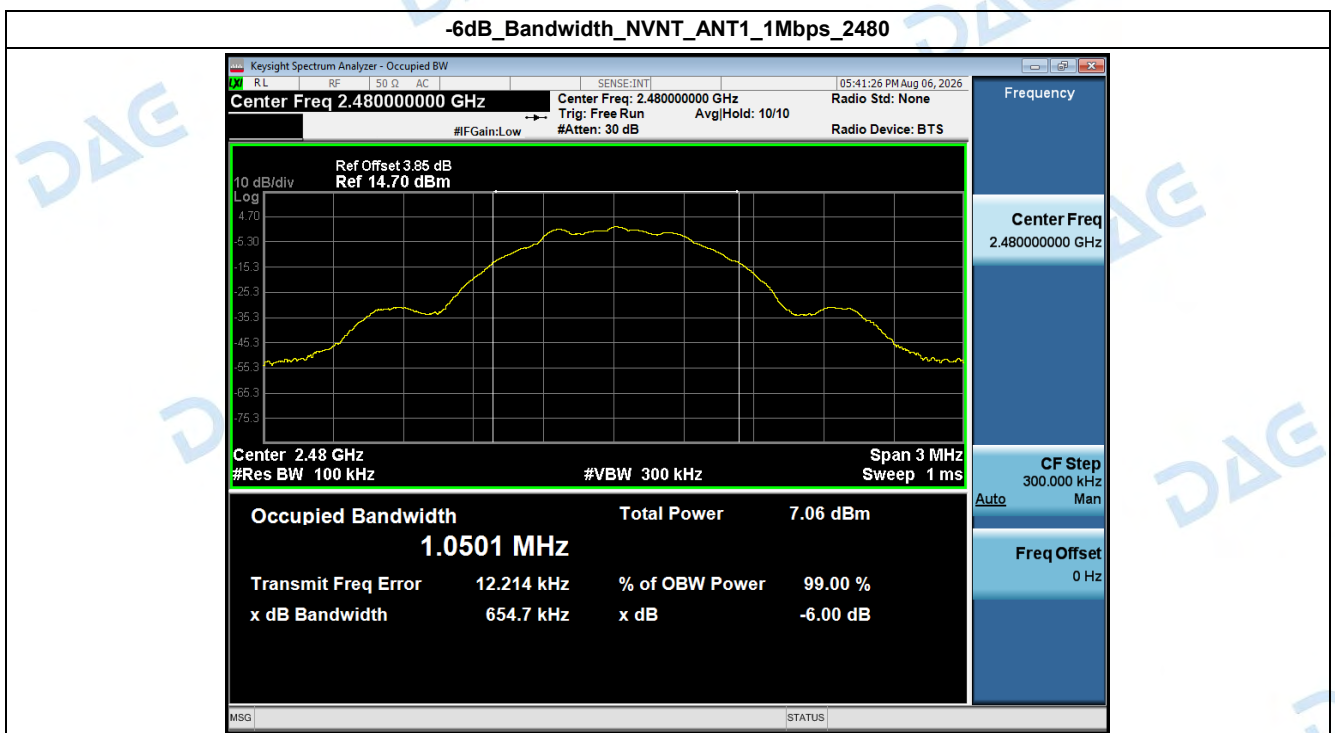
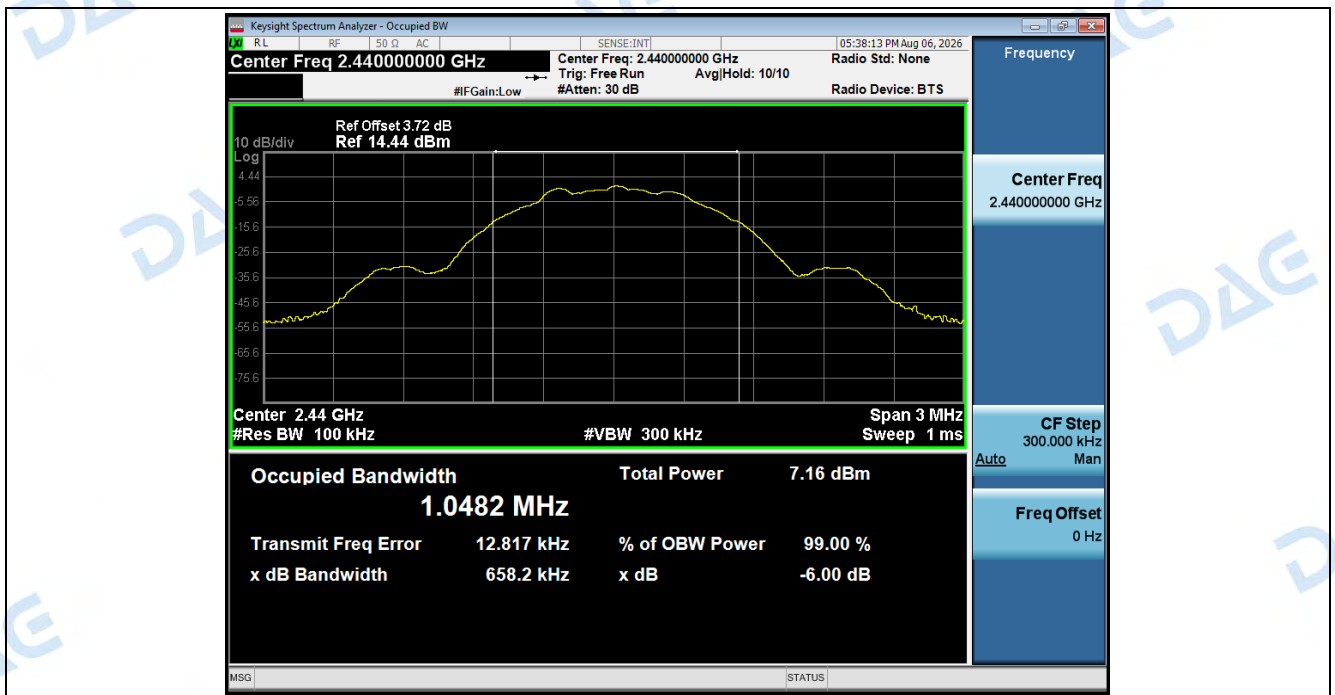
### 1. -6dB Bandwidth

| Condition | Antenna | Rate  | Frequency (MHz) | -6dB BW(kHz) | limit(kHz) | Result |
|-----------|---------|-------|-----------------|--------------|------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 664.98       | 500        | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 658.18       | 500        | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 654.69       | 500        | Pass   |
| NVNT      | ANT1    | 2Mbps | 2402.00         | 1105.79      | 500        | Pass   |
| NVNT      | ANT1    | 2Mbps | 2440.00         | 1142.64      | 500        | Pass   |
| NVNT      | ANT1    | 2Mbps | 2480.00         | 959.83       | 500        | Pass   |

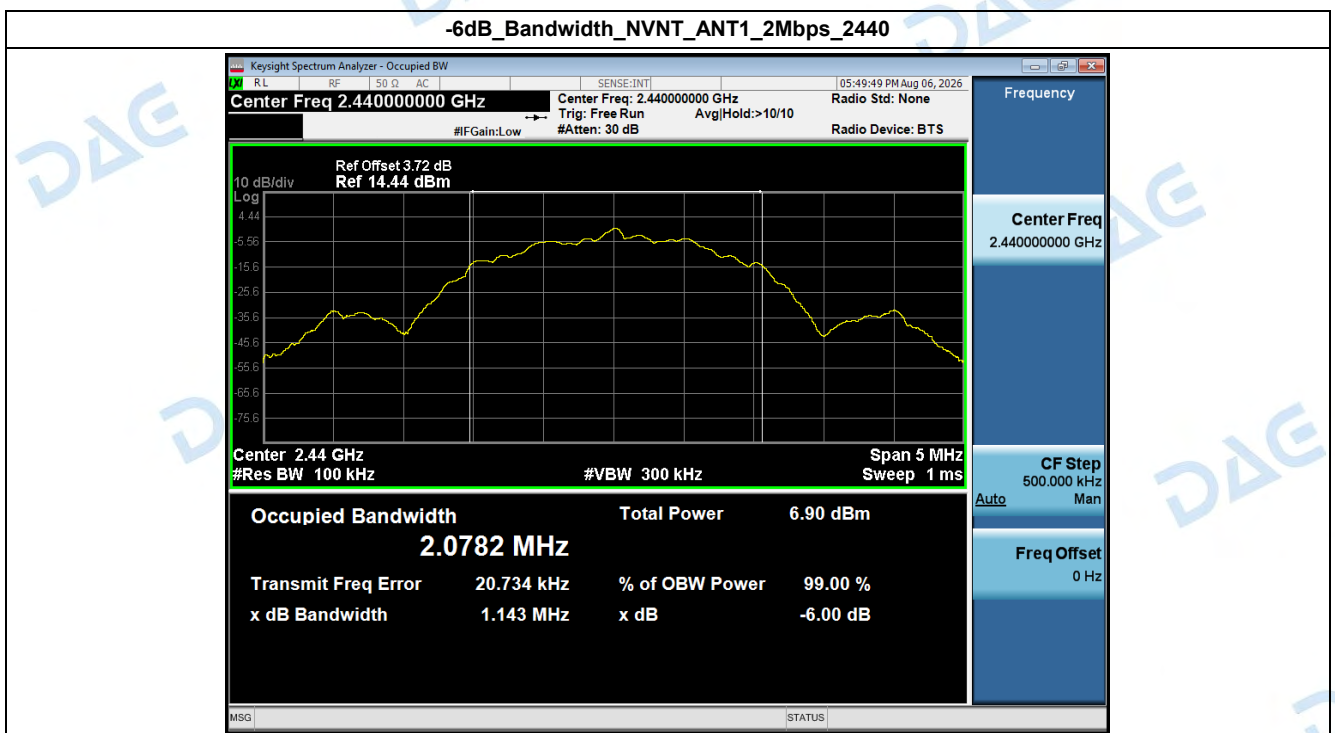
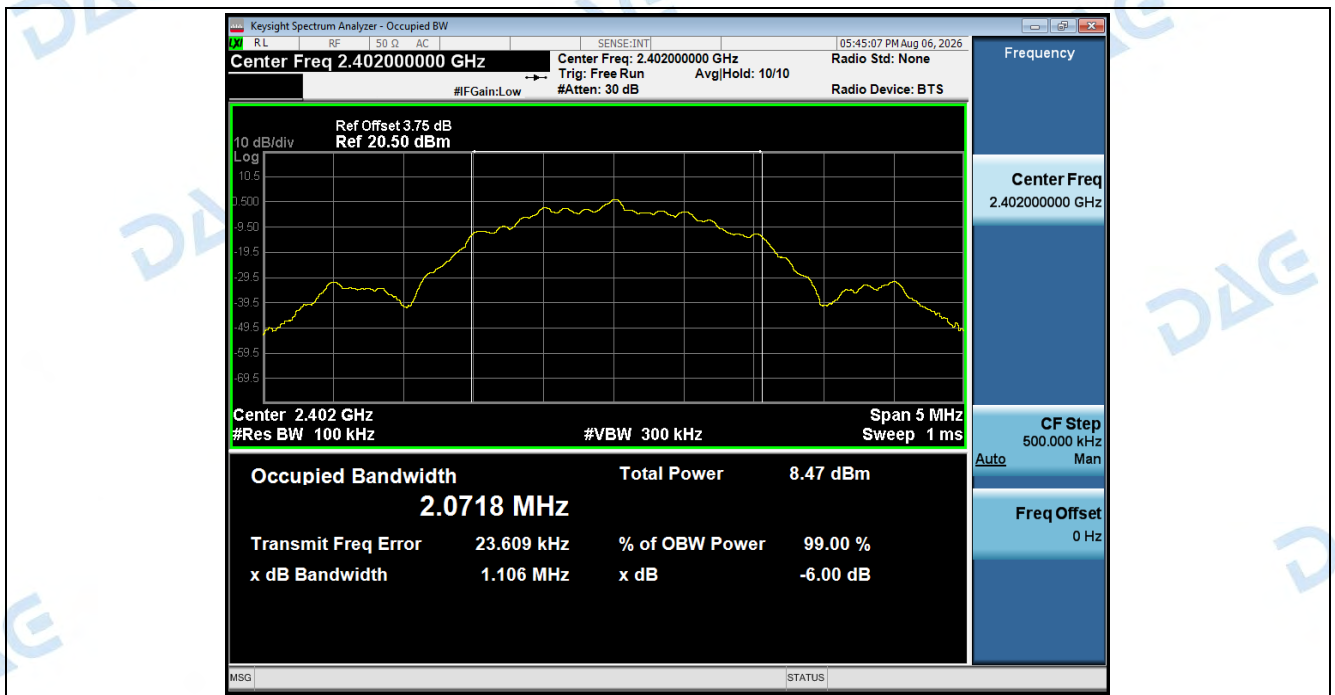
-6dB\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2402



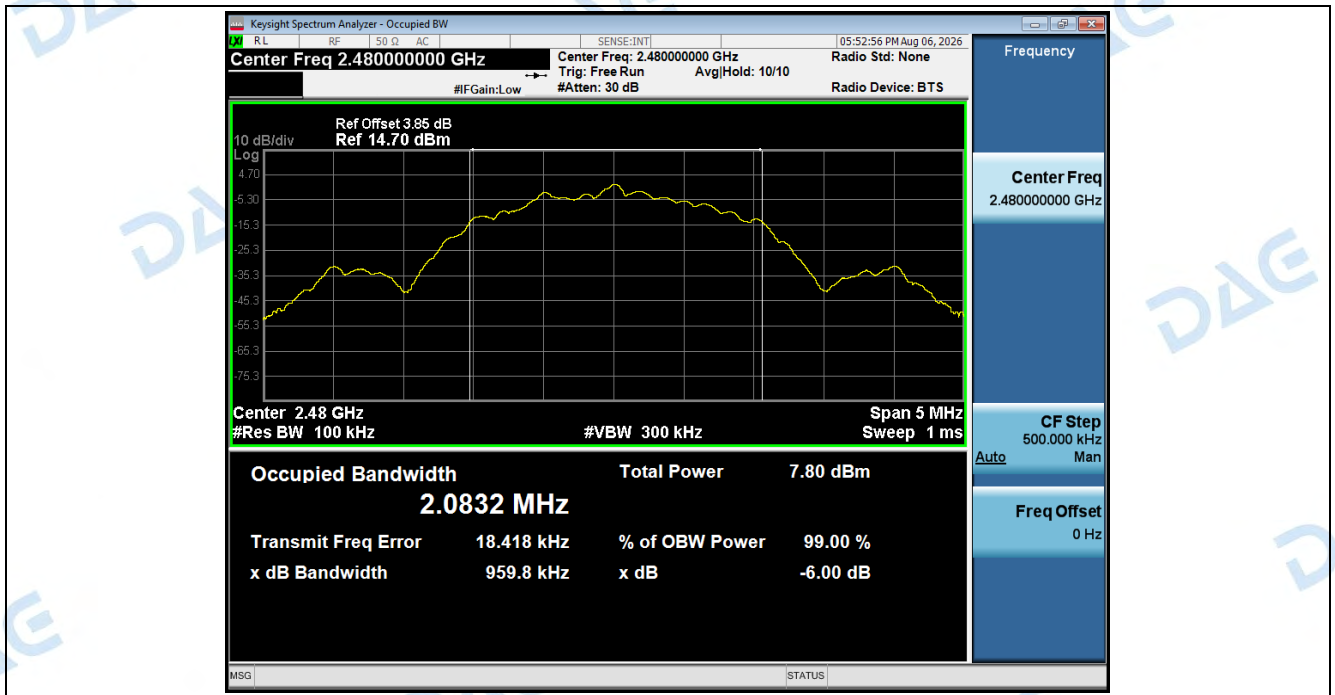
-6dB\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2440



#### -6dB\_Bandwidth\_NVNT\_ANT1\_2Mbps\_2402



-6dB\_Bandwidth\_NVNT\_ANT1\_2Mbps\_2480



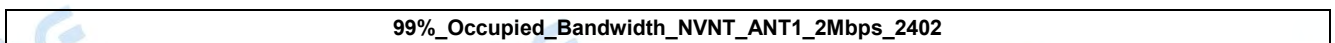
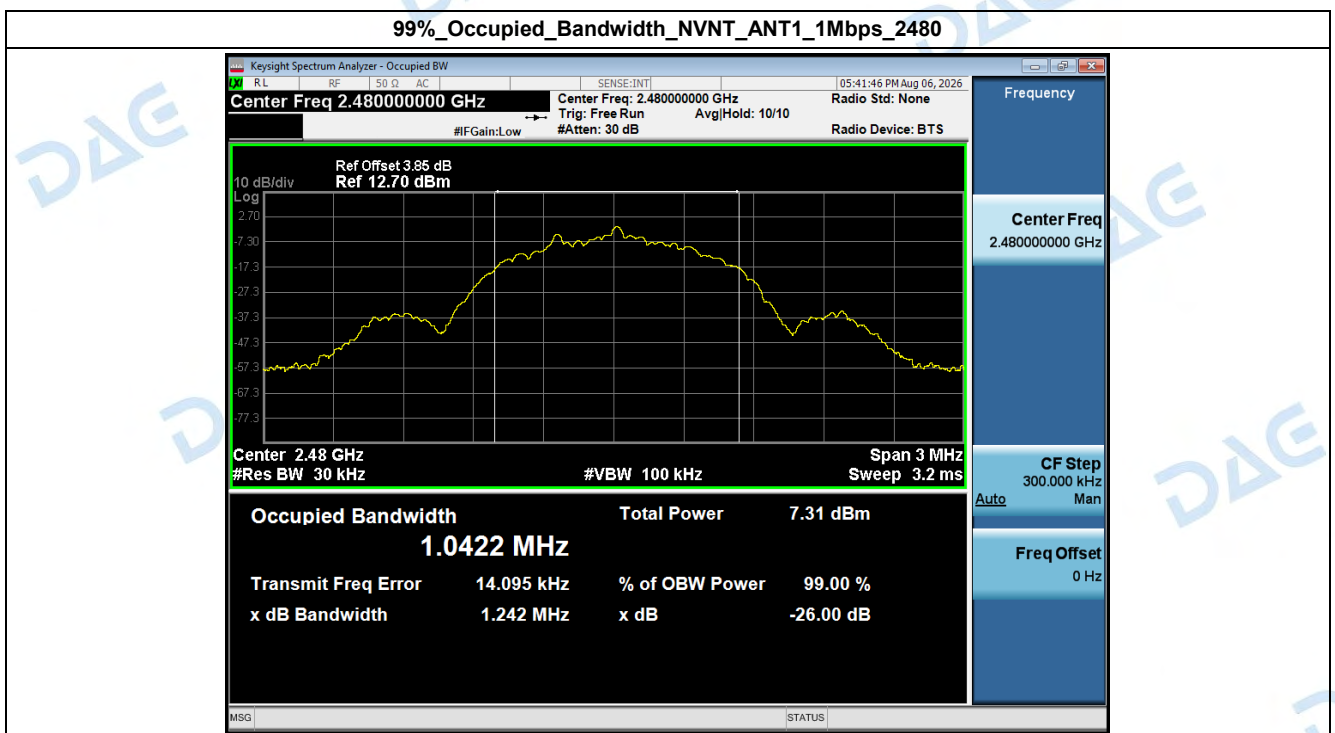
## 2. 99% Occupied Bandwidth

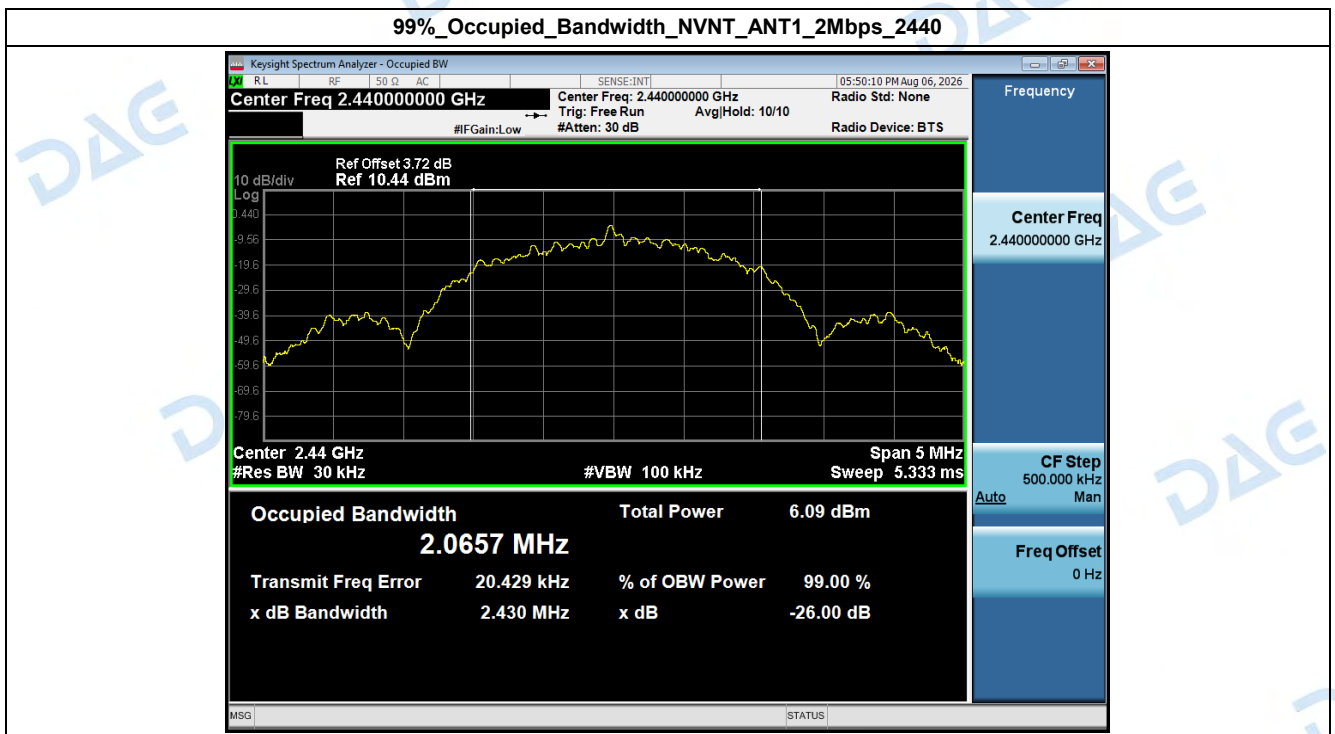
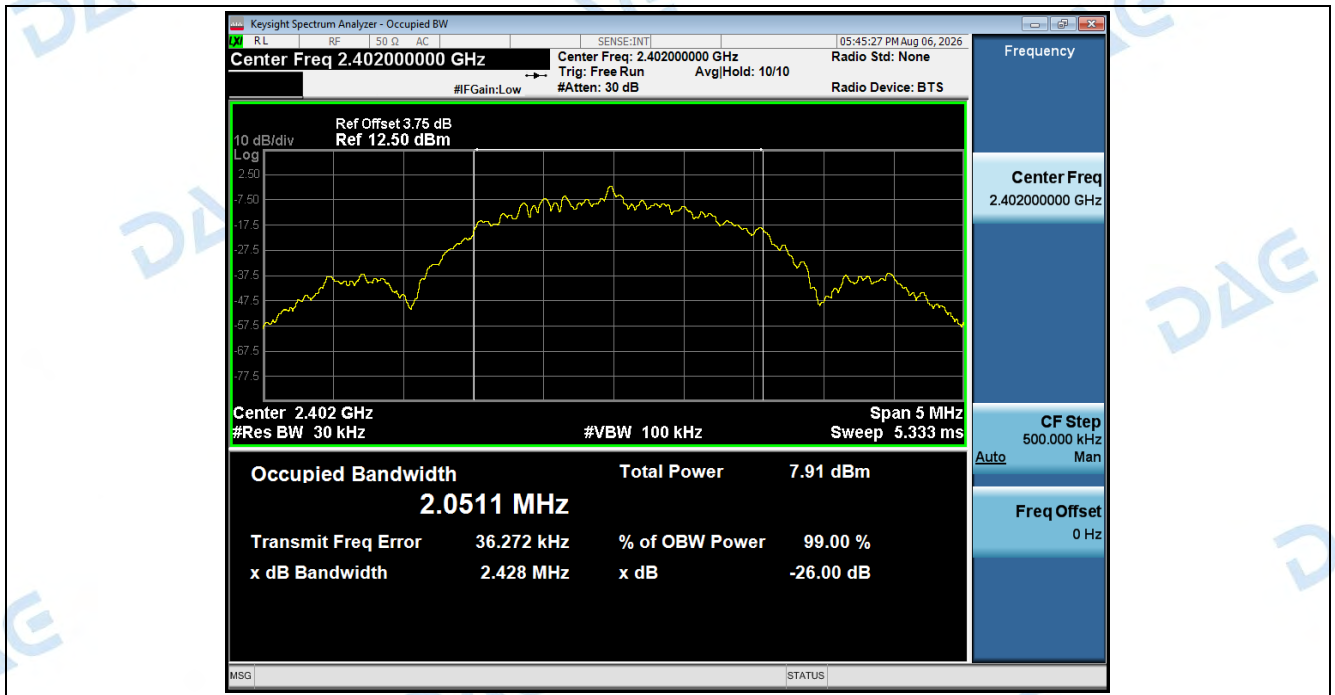
| Condition | Antenna | Rate  | Frequency (MHz) | 99% BW (MHz) |
|-----------|---------|-------|-----------------|--------------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 1.030        |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 1.035        |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 1.042        |
| NVNT      | ANT1    | 2Mbps | 2402.00         | 2.051        |
| NVNT      | ANT1    | 2Mbps | 2440.00         | 2.066        |
| NVNT      | ANT1    | 2Mbps | 2480.00         | 2.067        |

99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2402

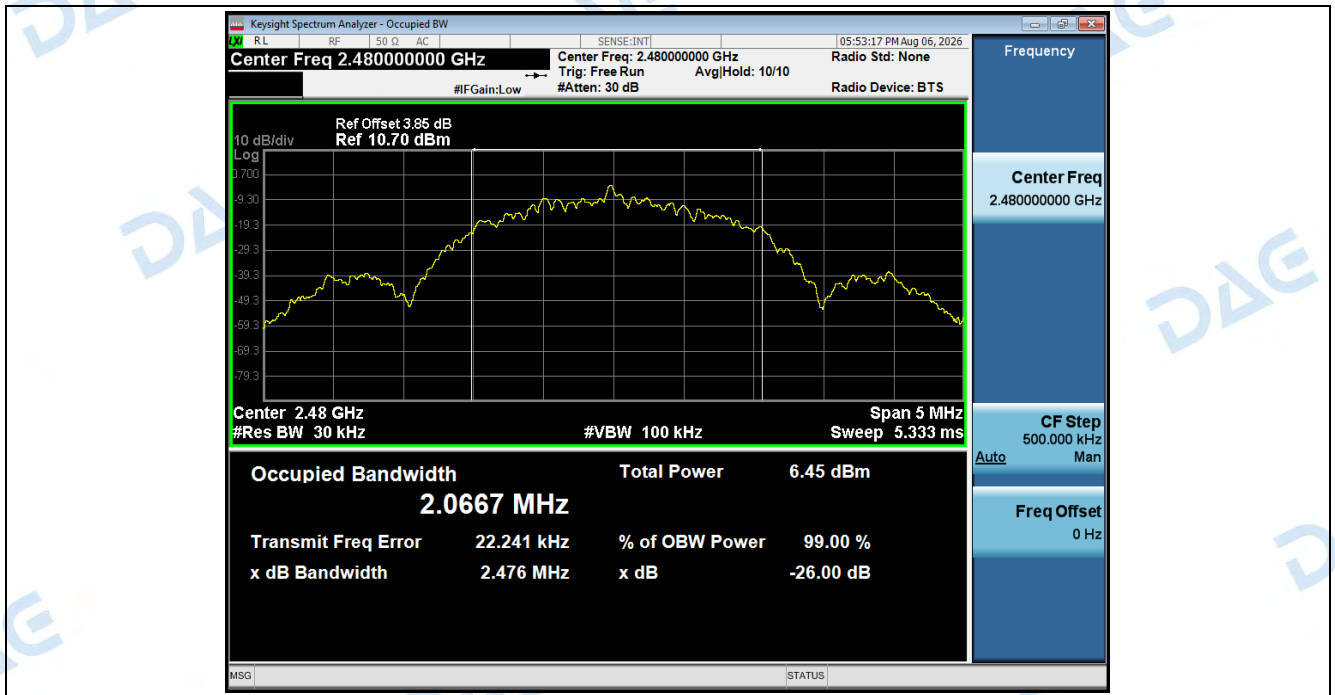


99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2440





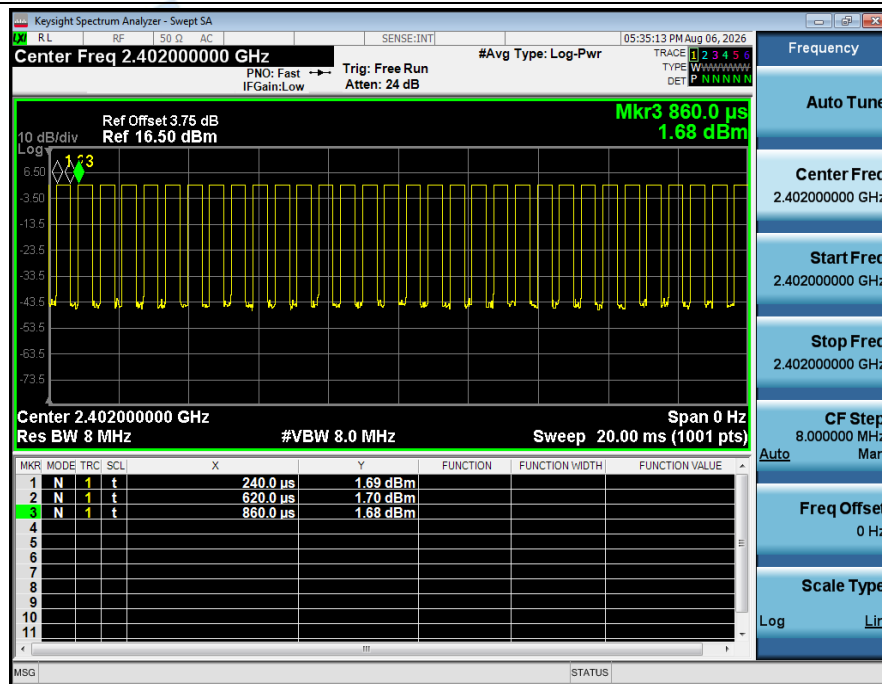
**99%\_Occupied\_Bandwidth\_NVNT\_ANT1\_2Mbps\_2480**



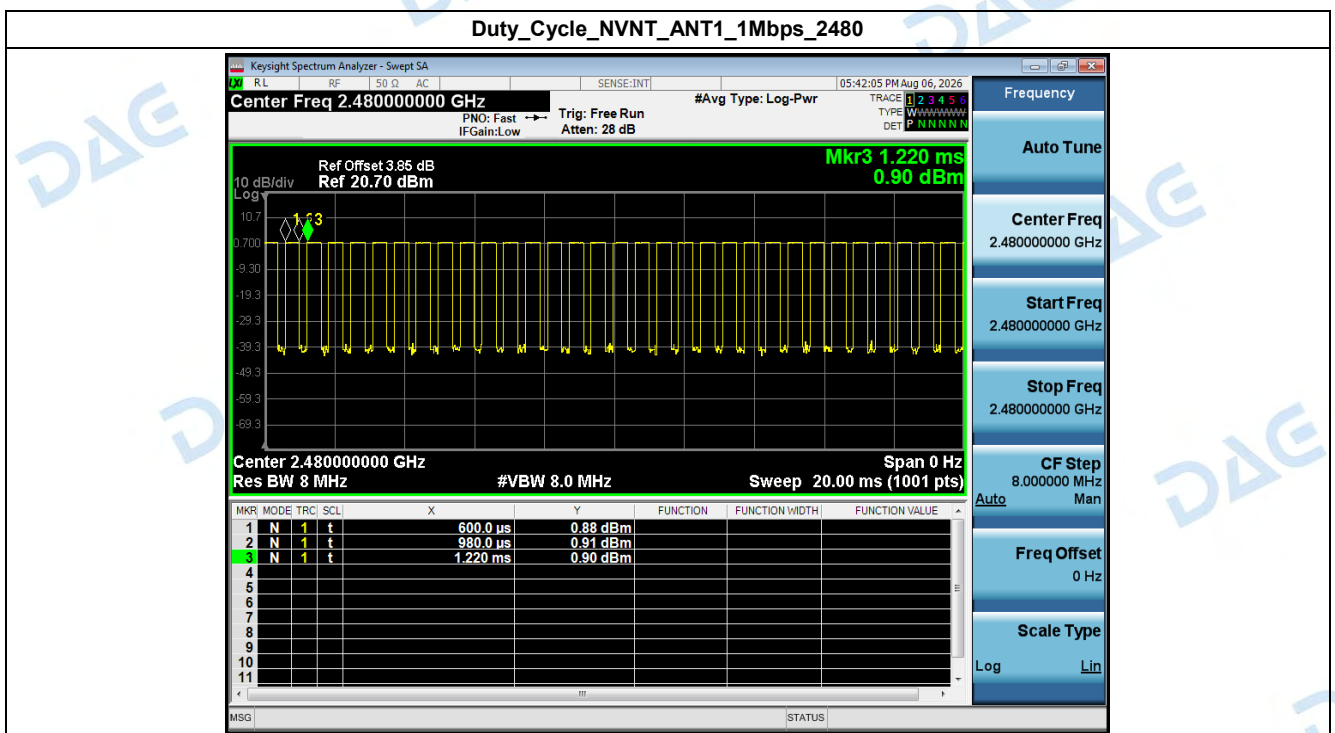
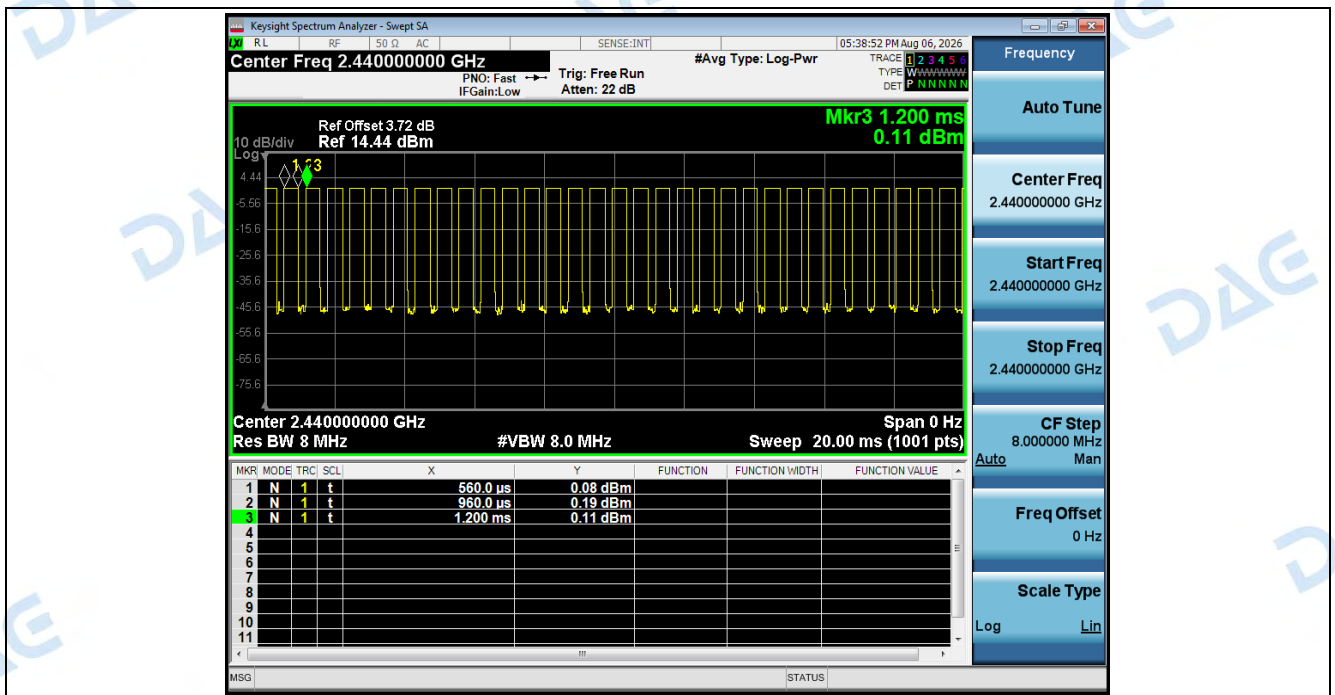
### 3. Duty Cycle

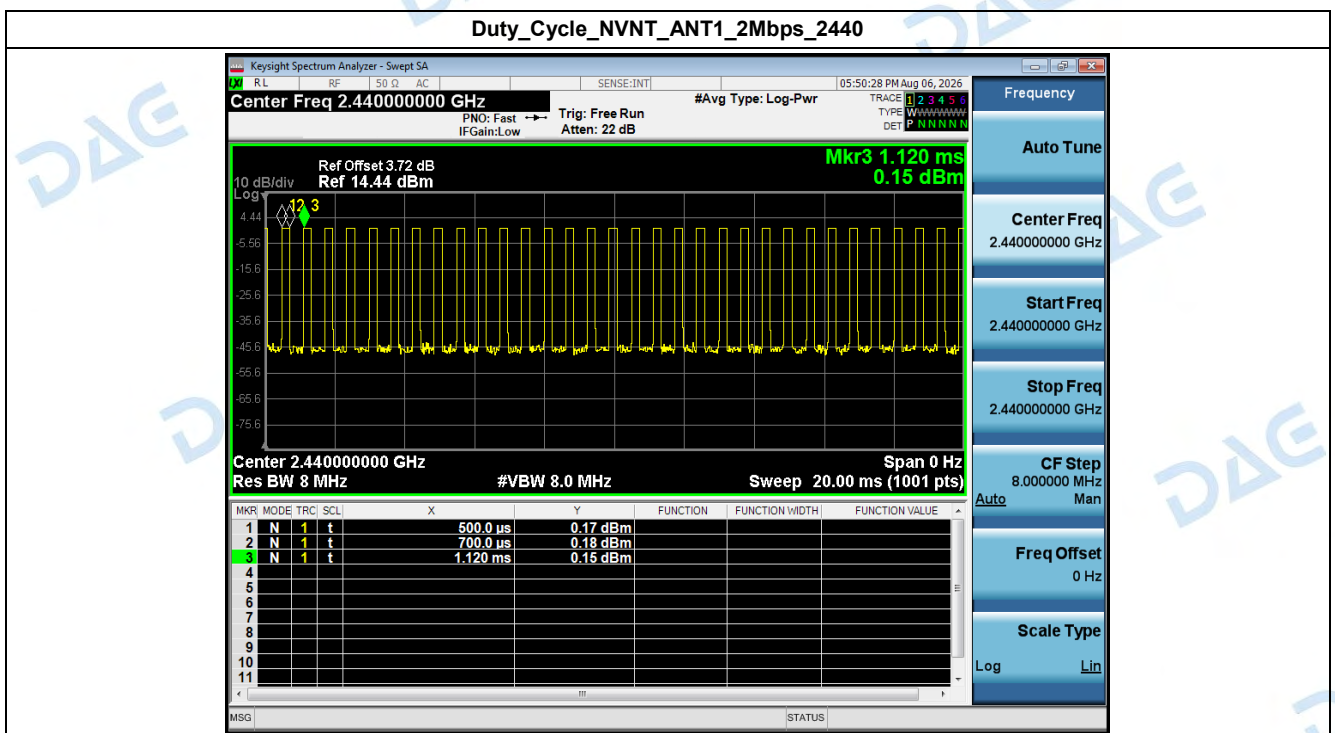
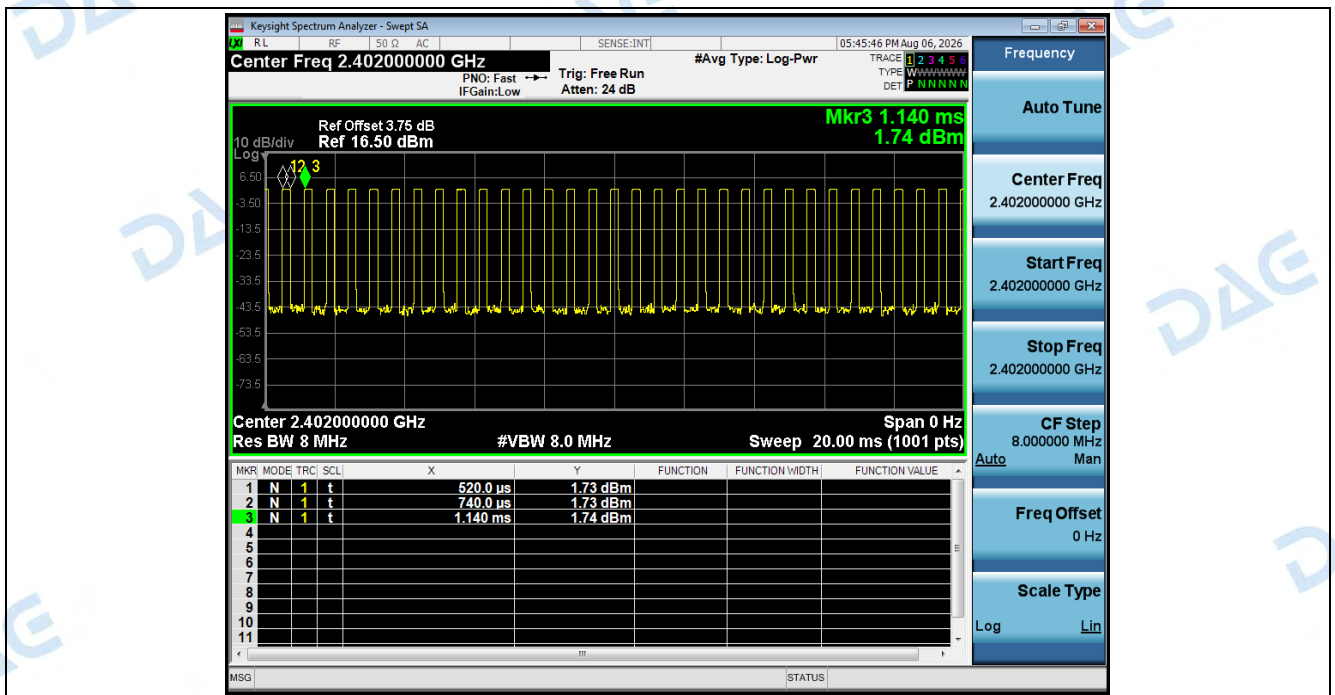
| Condition | Antenna | Rate  | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|-----------|---------|-------|-----------------|--------------|-------------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 64.52        | 1.90        |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 65.63        | 1.83        |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 64.52        | 1.90        |
| NVNT      | ANT1    | 2Mbps | 2402.00         | 38.71        | 4.12        |
| NVNT      | ANT1    | 2Mbps | 2440.00         | 35.48        | 4.50        |
| NVNT      | ANT1    | 2Mbps | 2480.00         | 35.48        | 4.50        |

Duty\_Cycle\_NVNT\_ANT1\_1Mbps\_2402

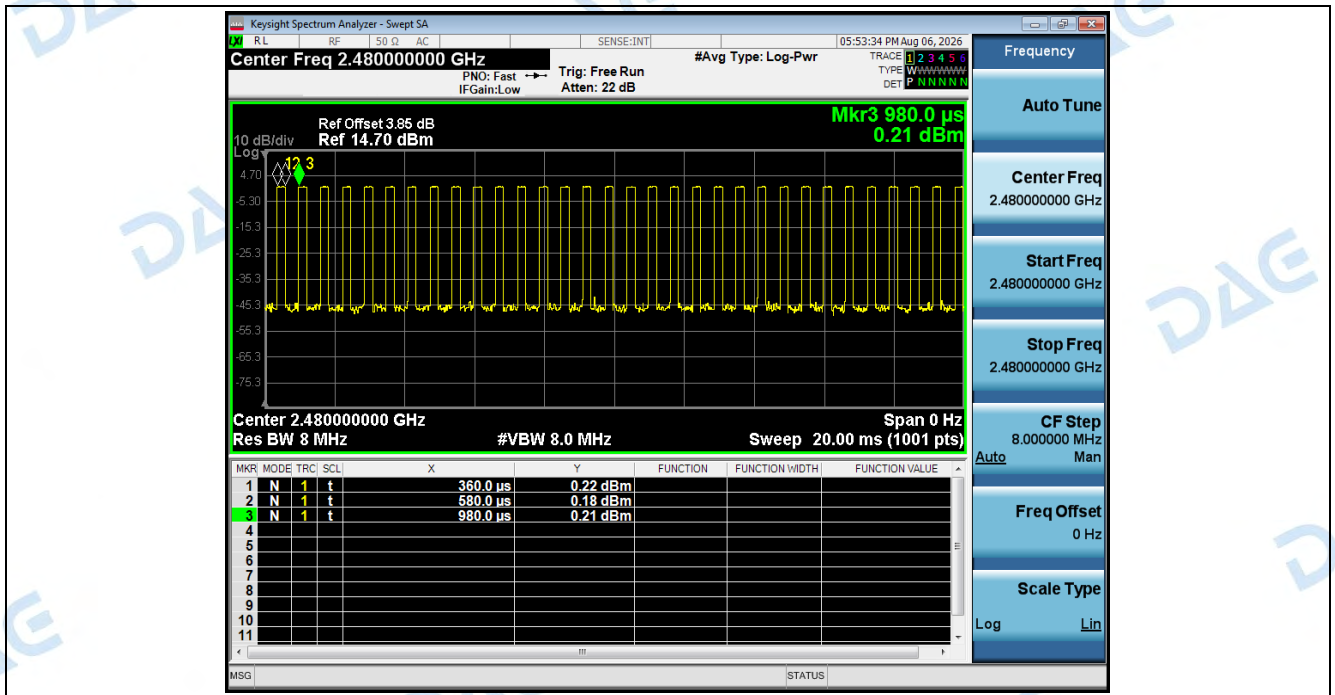


Duty\_Cycle\_NVNT\_ANT1\_1Mbps\_2440





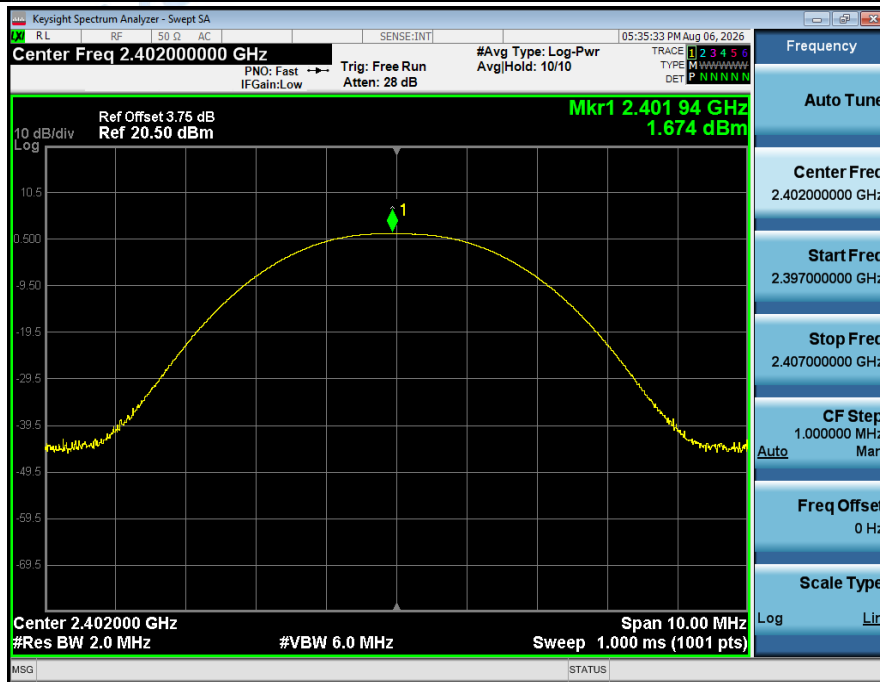
Duty\_Cycle\_NVNT\_ANT1\_2Mbps\_2480



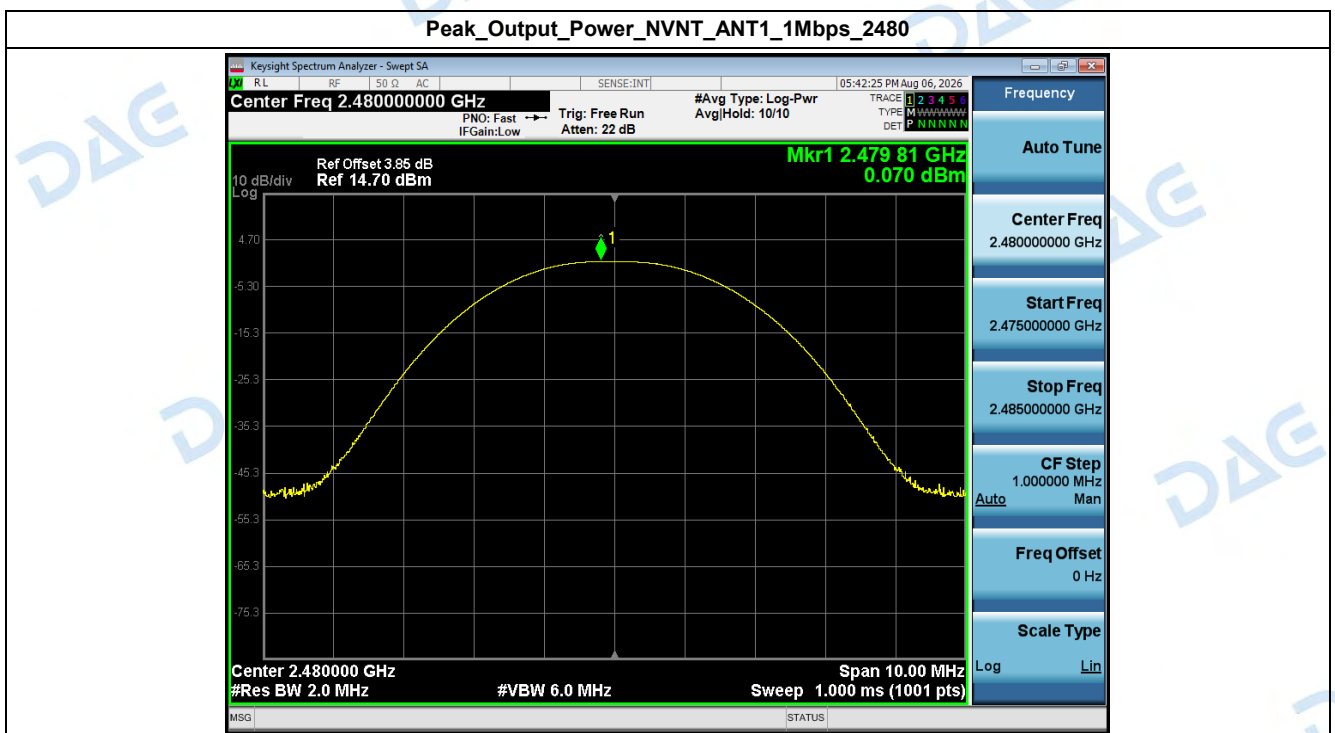
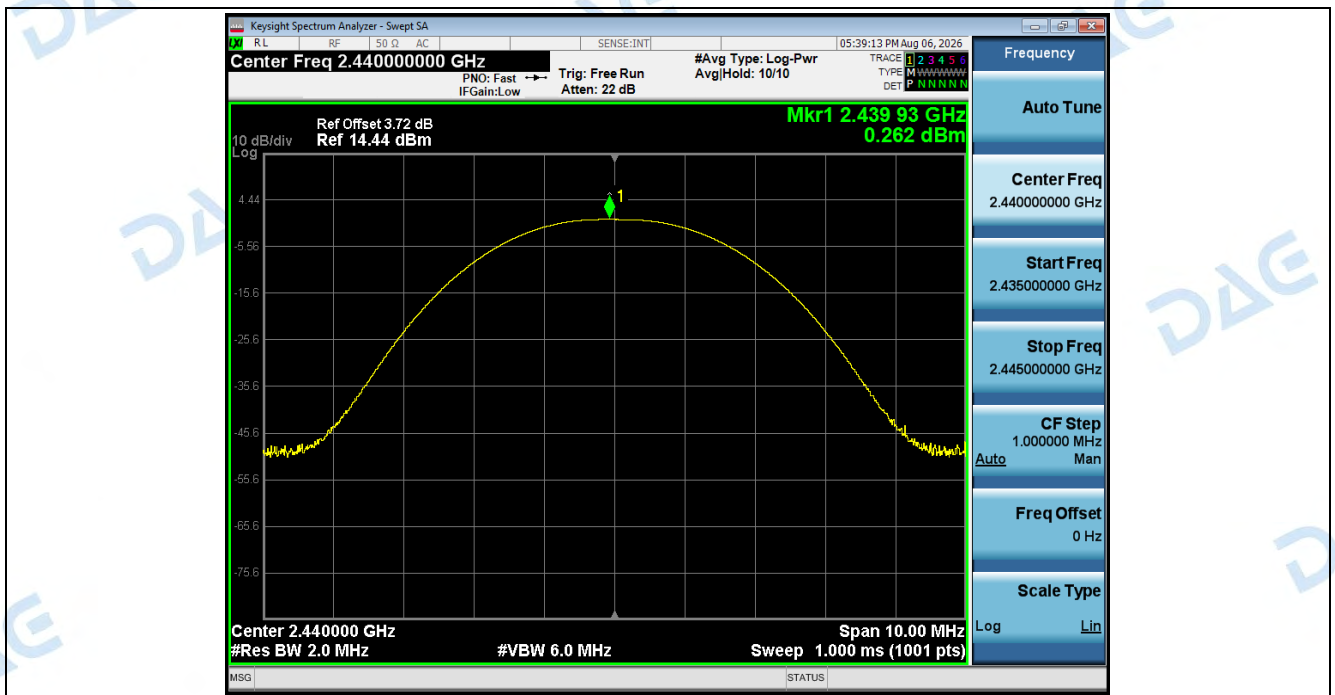
#### 4. Peak Output Power

| Condition | Antenna | Rate  | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|-------|-----------------|---------------------------|--------------------------|-----------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 1.67                      | 1.47                     | 1000      | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 0.26                      | 1.06                     | 1000      | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 0.07                      | 1.02                     | 1000      | Pass   |
| NVNT      | ANT1    | 2Mbps | 2402.00         | 1.76                      | 1.50                     | 1000      | Pass   |
| NVNT      | ANT1    | 2Mbps | 2440.00         | 0.41                      | 1.10                     | 1000      | Pass   |
| NVNT      | ANT1    | 2Mbps | 2480.00         | 1.03                      | 1.27                     | 1000      | Pass   |

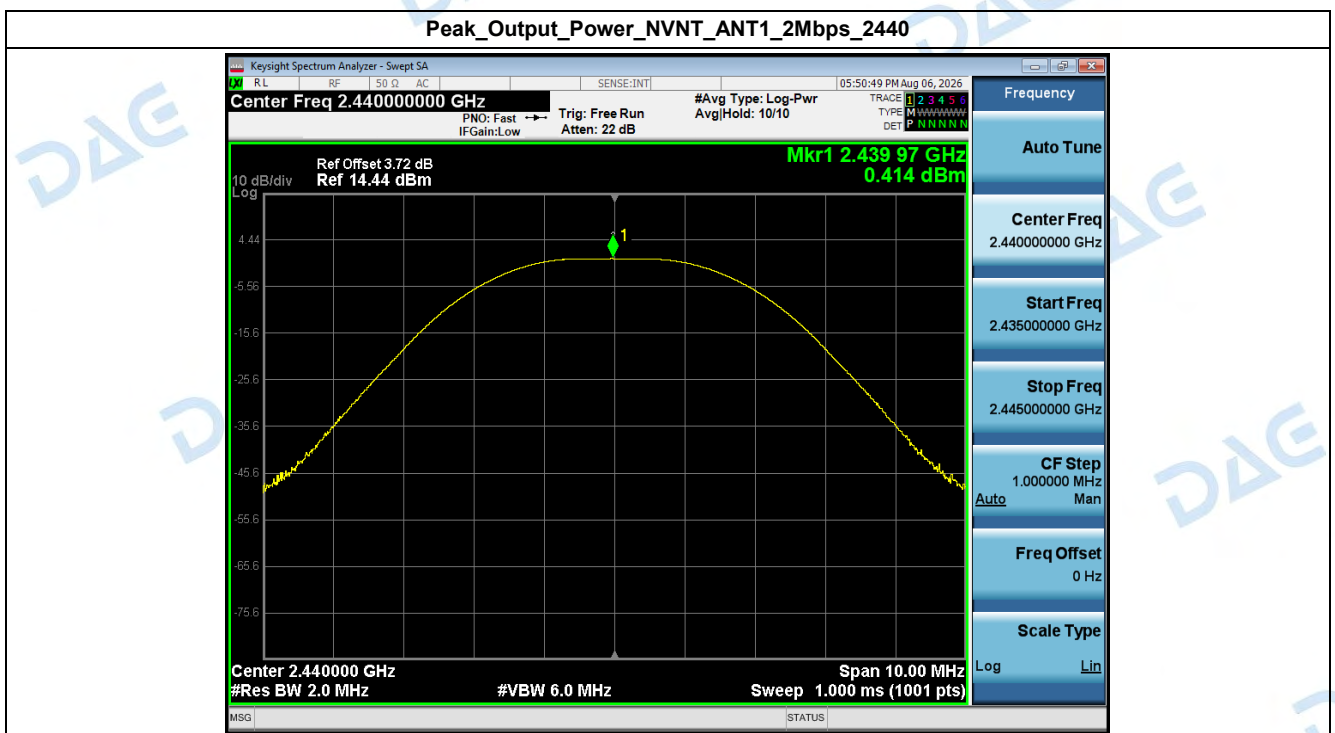
Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2402



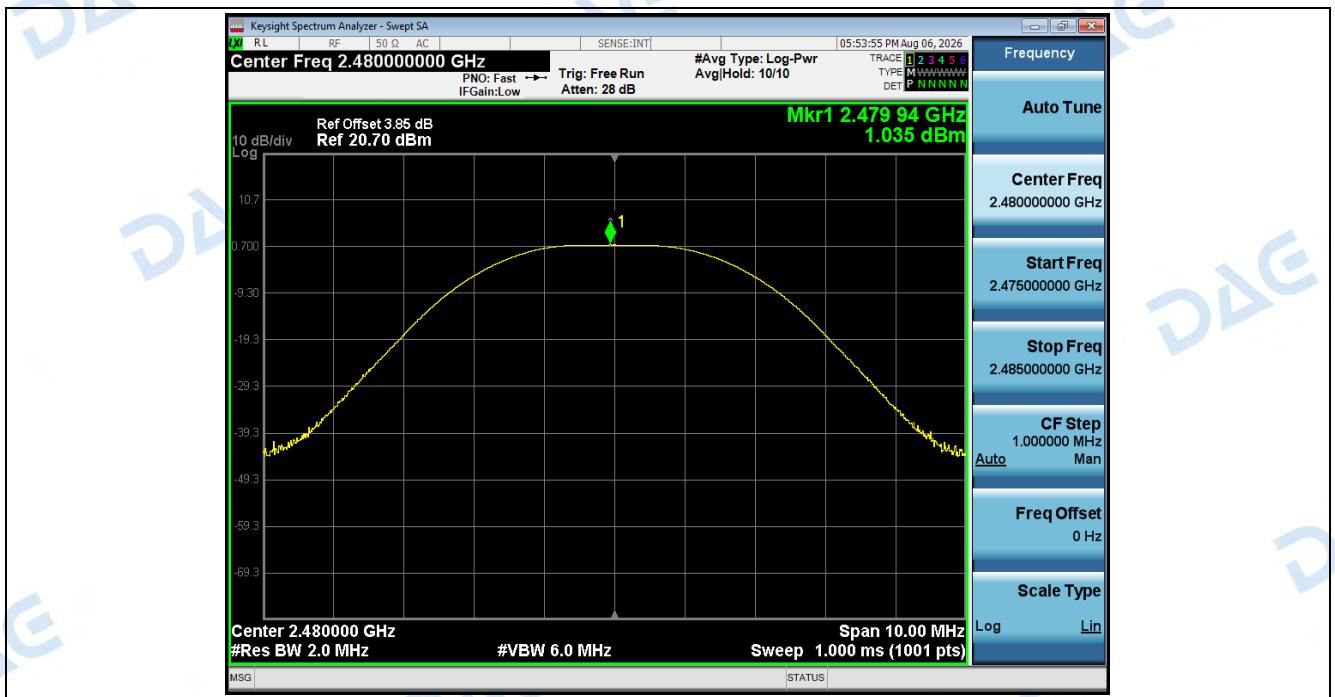
Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2440



Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2402



Peak\_Output\_Power\_NVNT\_ANT1\_2Mbps\_2480



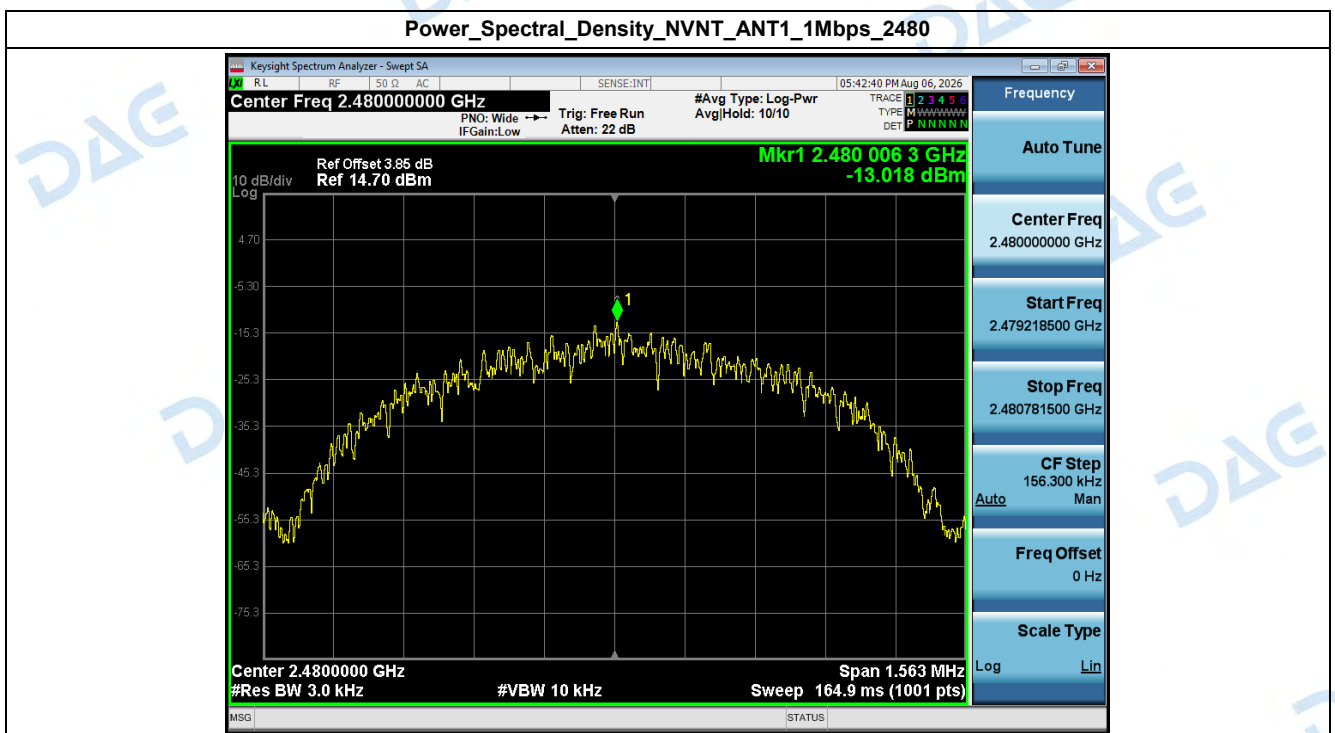
## 5. Power Spectral Density

| Condition | Antenna | Rate  | Frequency (MHz) | Power Spectral Density(dBm/3kHz) | Limit(dBm/3kHz) | Result |
|-----------|---------|-------|-----------------|----------------------------------|-----------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | -13.92                           | 8               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | -13.79                           | 8               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | -13.02                           | 8               | Pass   |
| NVNT      | ANT1    | 2Mbps | 2402.00         | -14.90                           | 8               | Pass   |
| NVNT      | ANT1    | 2Mbps | 2440.00         | -17.06                           | 8               | Pass   |
| NVNT      | ANT1    | 2Mbps | 2480.00         | -15.71                           | 8               | Pass   |

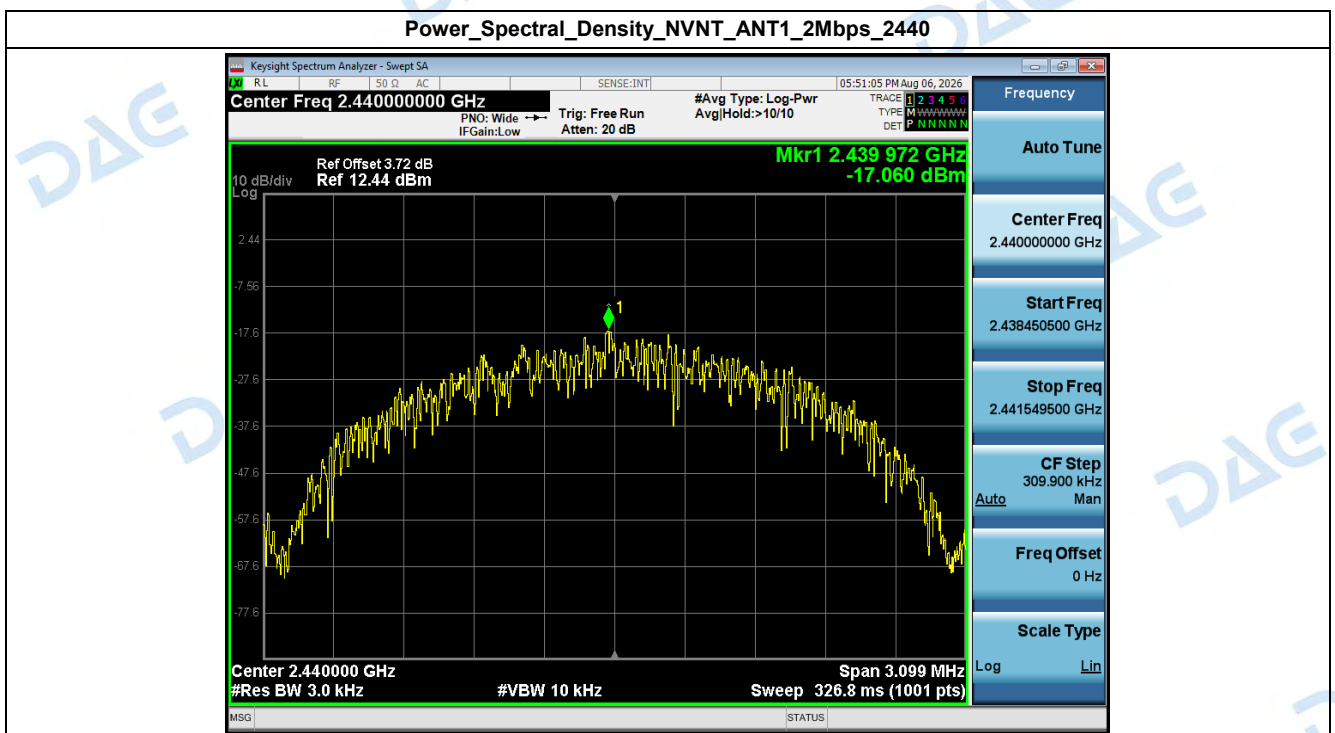
Power\_Spectral\_Density\_NVNT\_ANT1\_1Mbps\_2402



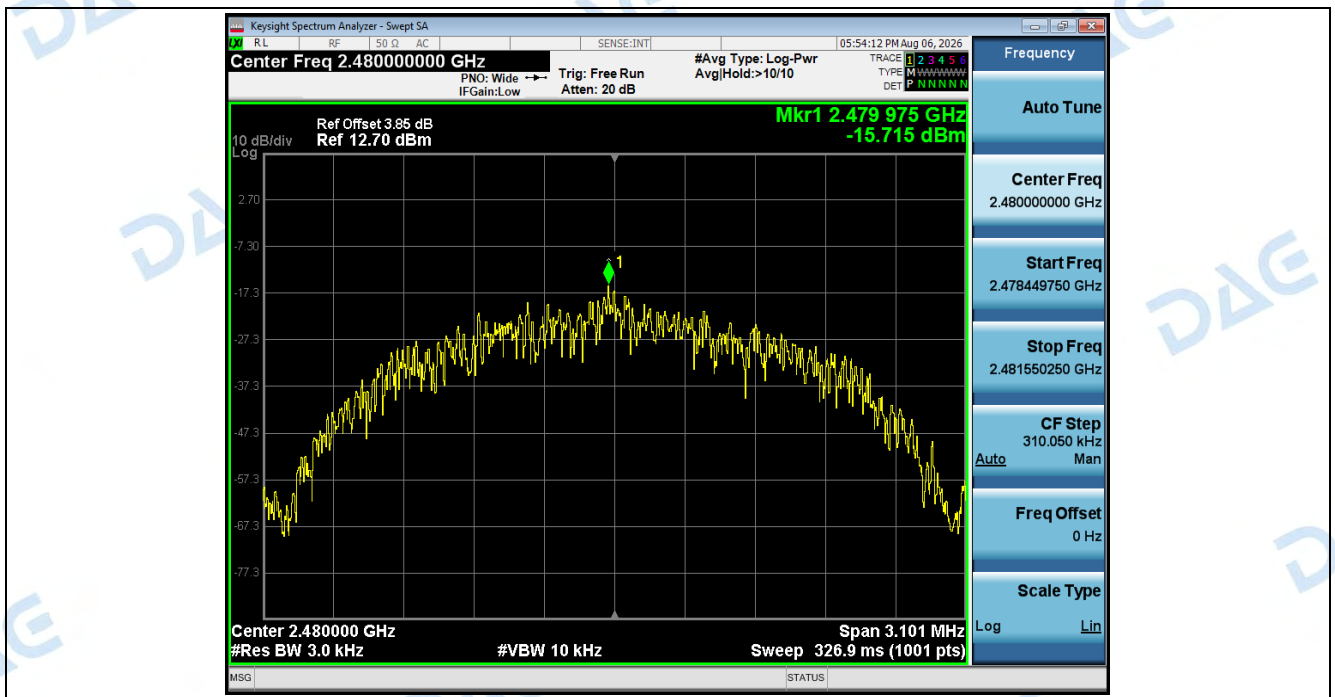
Power\_Spectral\_Density\_NVNT\_ANT1\_1Mbps\_2440



Power\_Spectral\_Density\_NVNT\_ANT1\_2Mbps\_2402



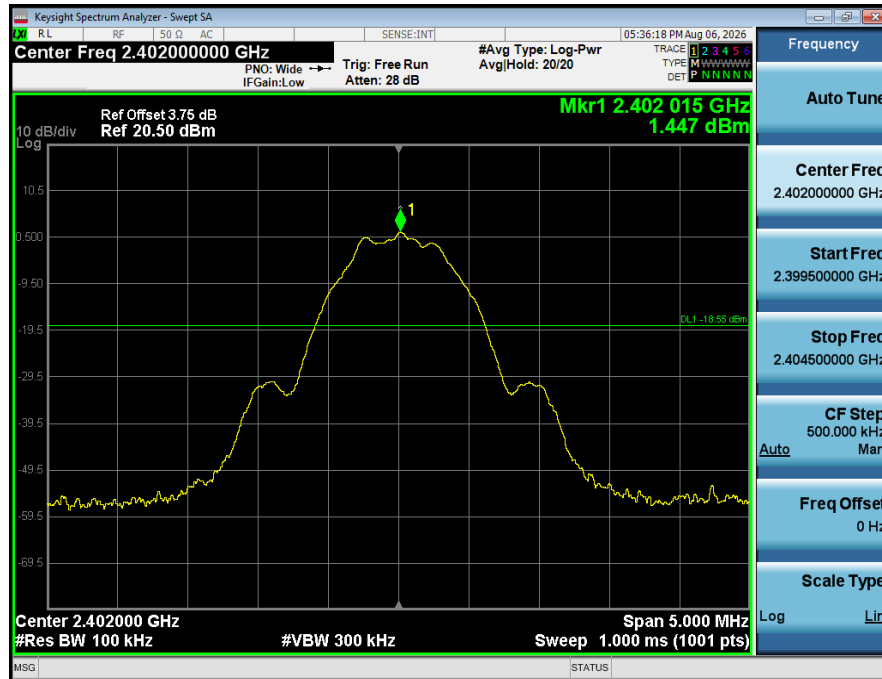
Power\_Spectral\_Density\_NVNT\_ANT1\_2Mbps\_2480



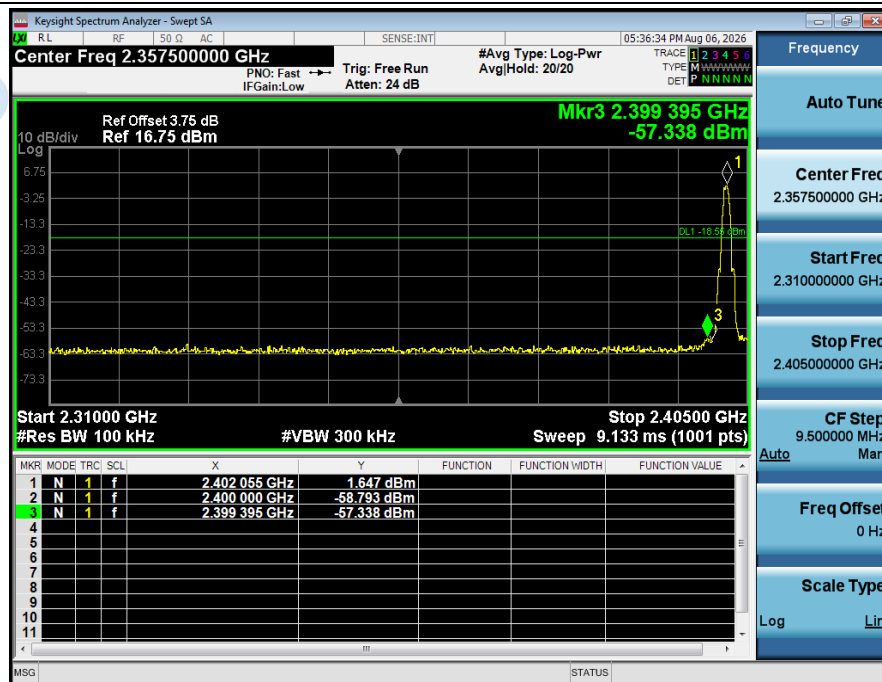
## 6. Bandedge

| Condition | Antenna | Modulation | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|------------|--------------------|---------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 1Mbps      | 2402.00            | 2399.395            | 1.447          | -57.338             | -18.553    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2480.00            | 2483.575            | 0.658          | -63.989             | -19.342    | Pass   |
| NVNT      | ANT1    | 2Mbps      | 2402.00            | 2399.965            | 1.048          | -31.307             | -18.952    | Pass   |
| NVNT      | ANT1    | 2Mbps      | 2480.00            | 2483.525            | 0.839          | -62.329             | -19.161    | Pass   |

### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2402



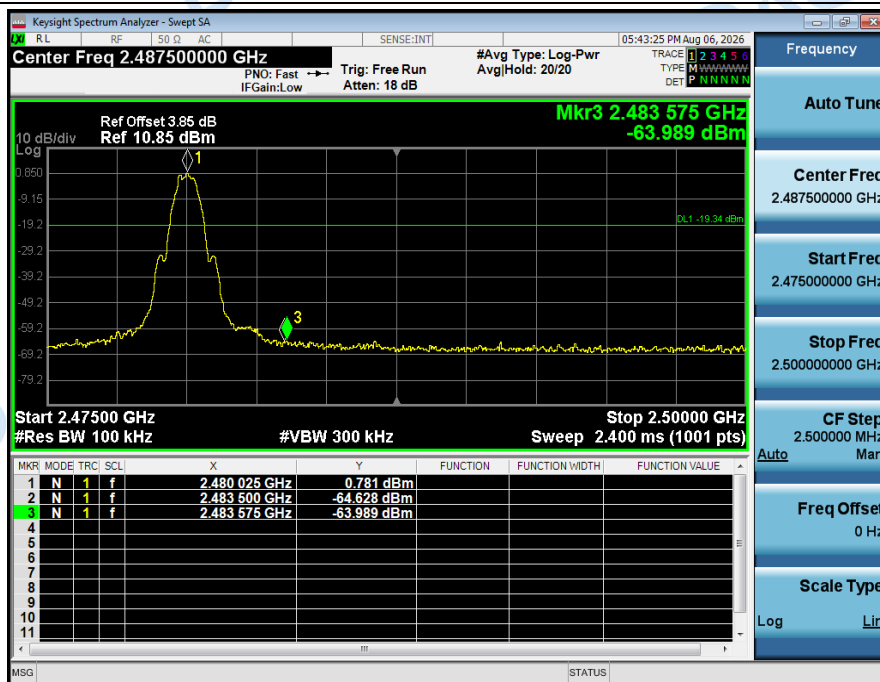
### 2\_Bandedge\_NVNT\_ANT1\_1Mbps\_2402



### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480



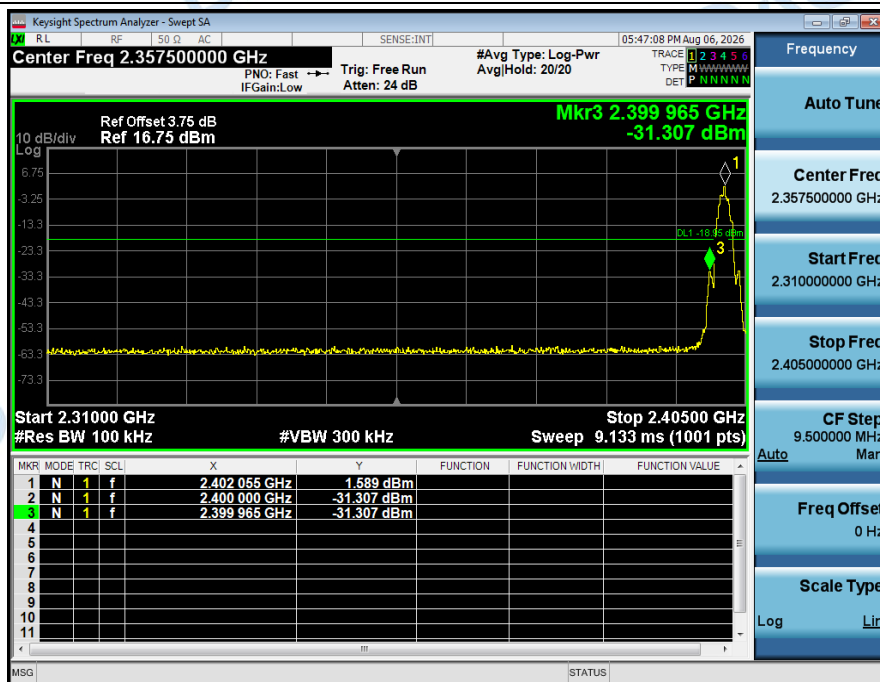
## 2\_Bandedge\_NVNT\_ANT1\_1Mbps\_2480



## 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2402



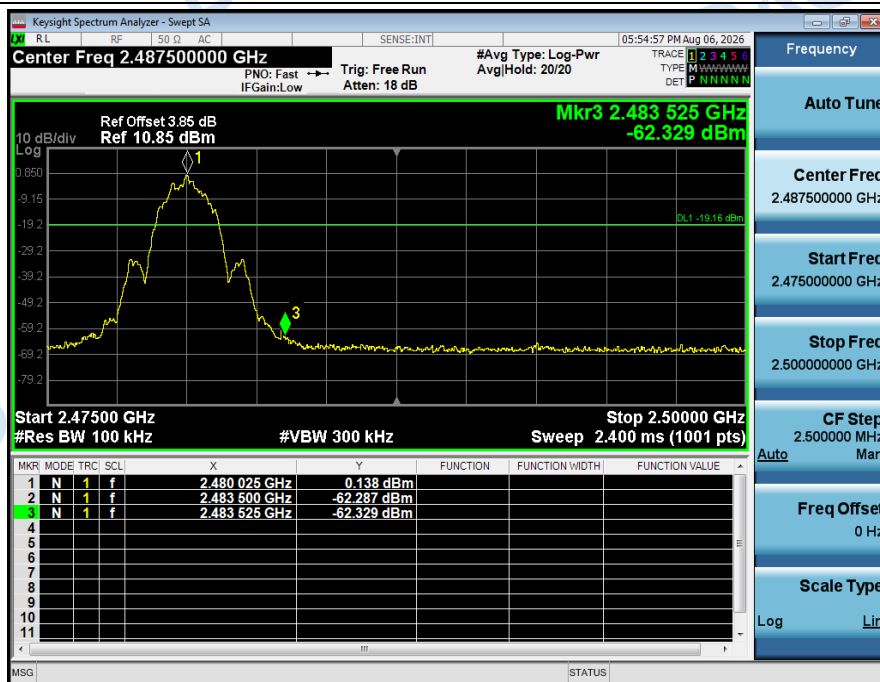
## 2\_Bandedge\_NVNT\_ANT1\_2Mbps\_2402



## 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2480



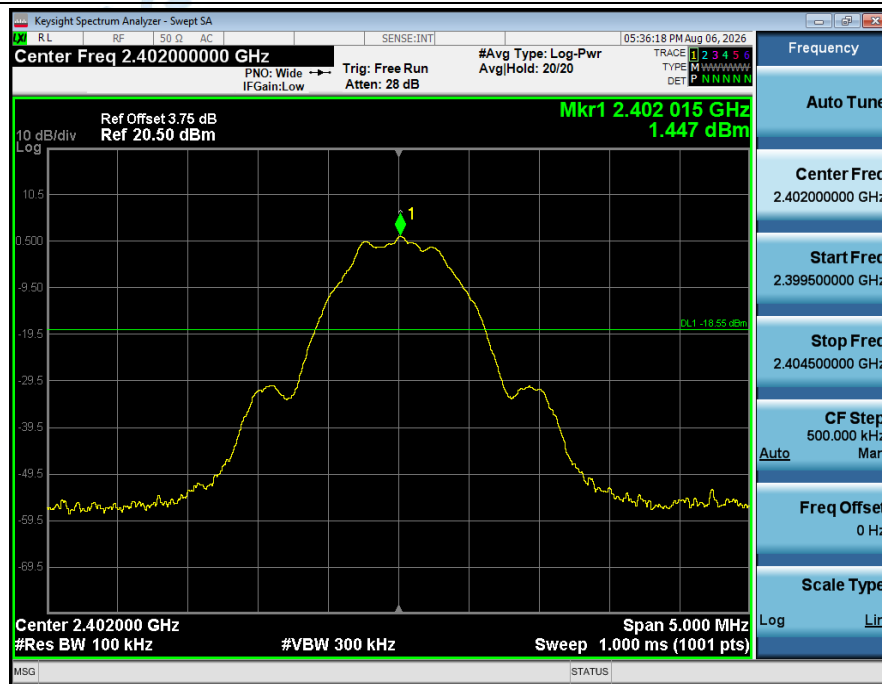
## 2\_Bandedge\_NVNT\_ANT1\_2Mbps\_2480



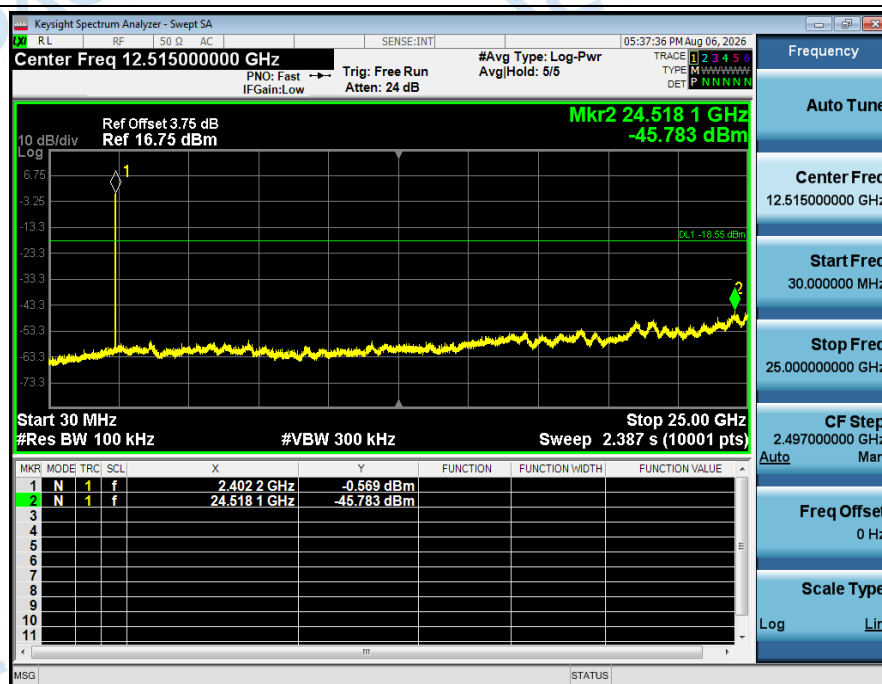
## 7. Spurious Emission

| Condition | Antenna | Modulation | TX_Frequency (MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|------------|--------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 1Mbps      | 2402.00            | 1.447          | -45.783             | -18.553    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2440.00            | -0.210         | -51.766             | -20.210    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2480.00            | 0.658          | -51.531             | -19.342    | Pass   |
| NVNT      | ANT1    | 2Mbps      | 2402.00            | 1.048          | -44.688             | -18.952    | Pass   |
| NVNT      | ANT1    | 2Mbps      | 2440.00            | 0.200          | -51.987             | -19.800    | Pass   |
| NVNT      | ANT1    | 2Mbps      | 2480.00            | 0.839          | -51.322             | -19.161    | Pass   |

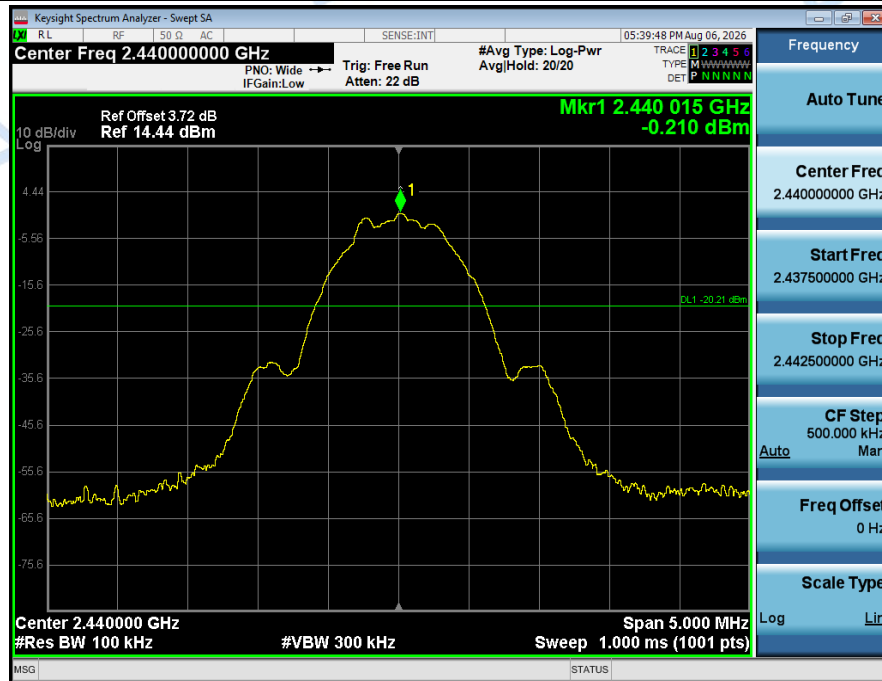
### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2402



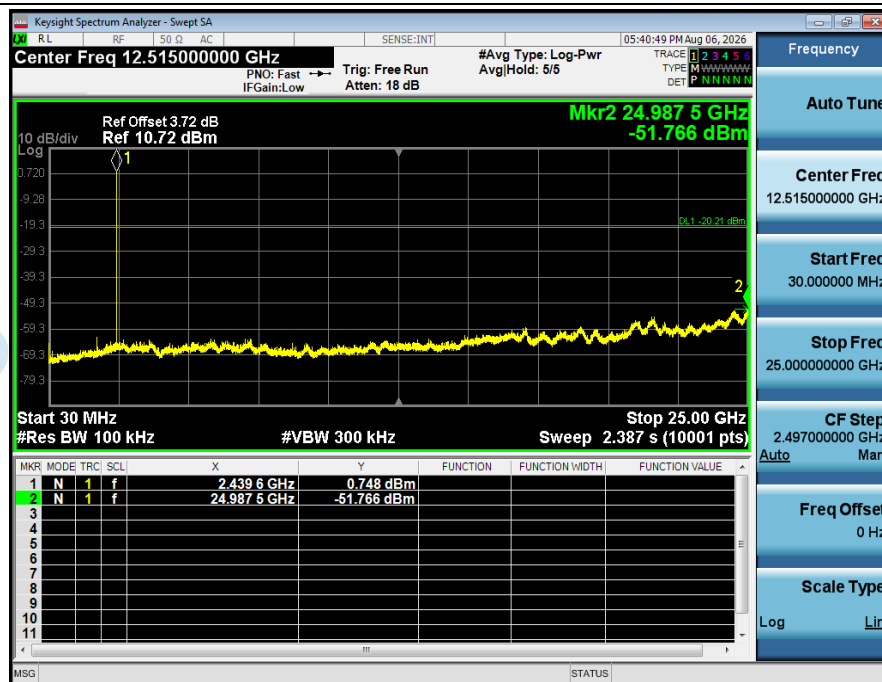
### 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2402



### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2440



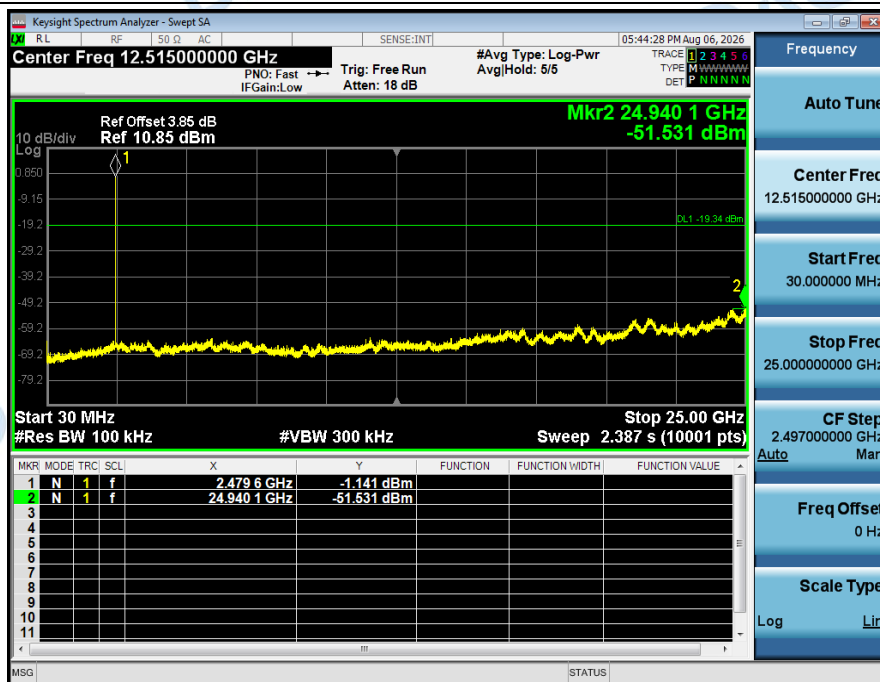
### 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2440



### 1\_Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480



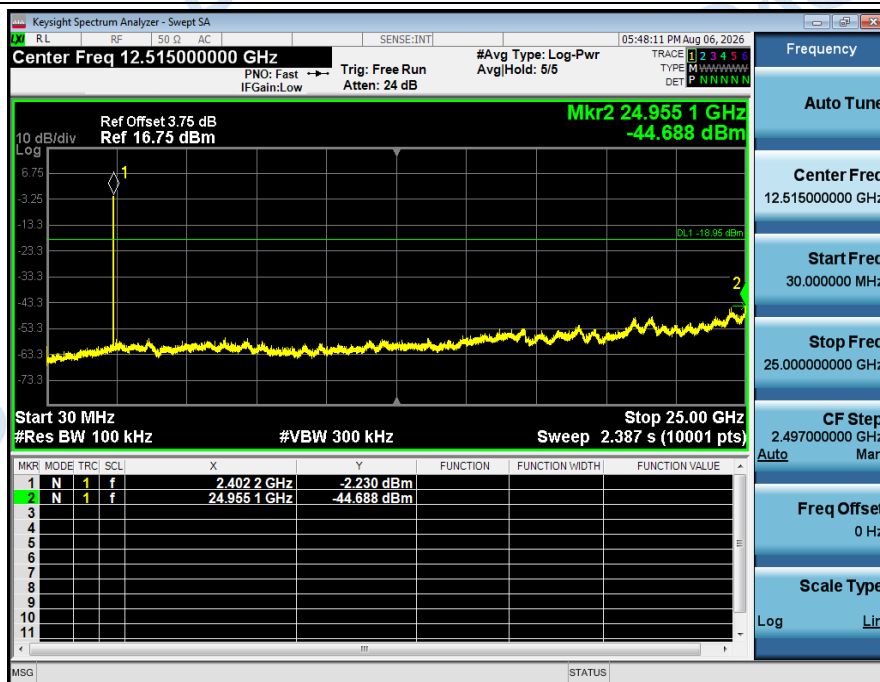
## 2\_Spurious\_Emission\_NVNT\_ANT1\_1Mbps\_2480



## 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2402



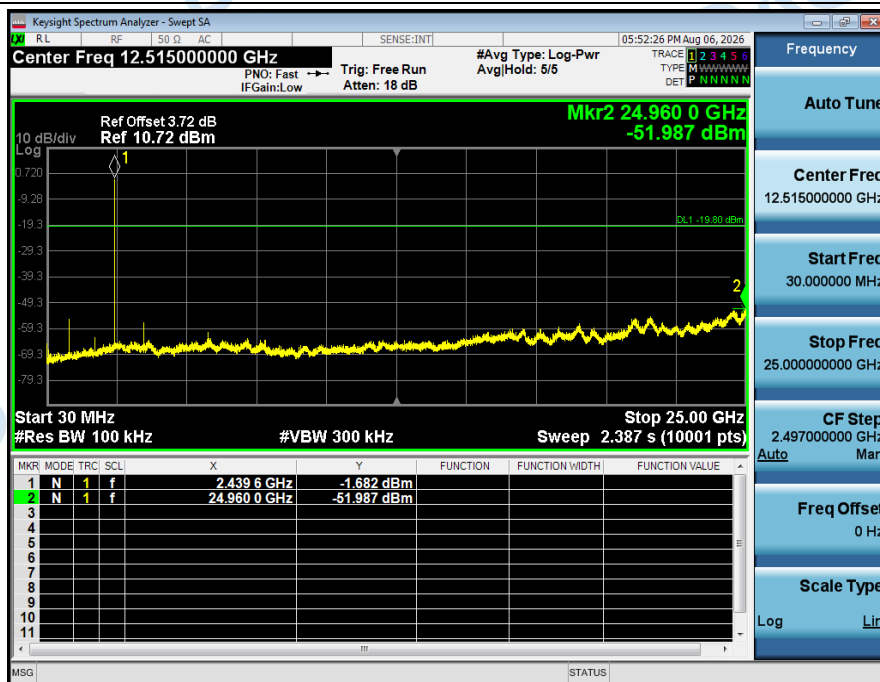
## 2\_Spurious\_Emission\_NVNT\_ANT1\_2Mbps\_2402



## 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2440



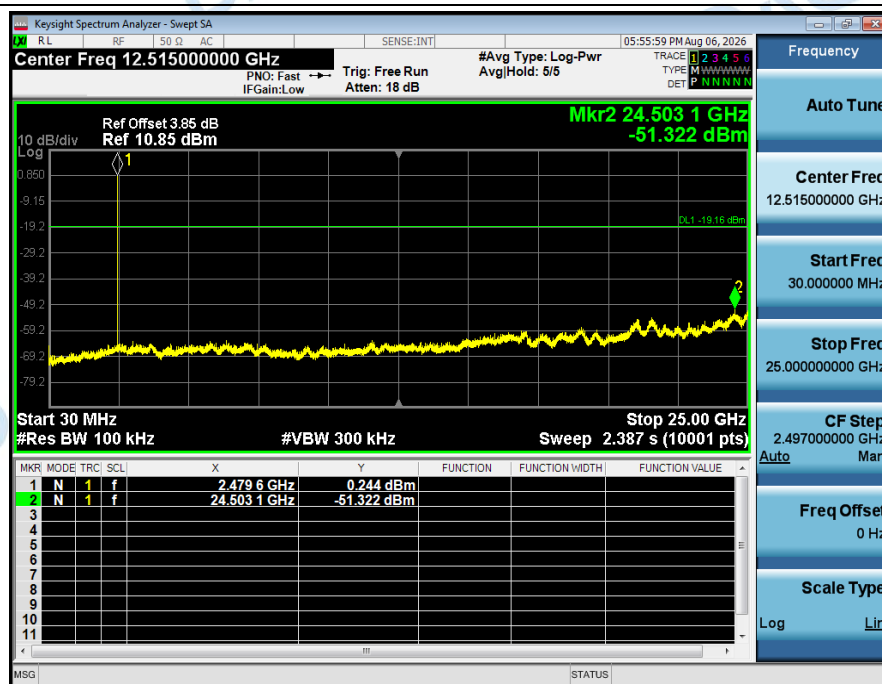
## 2\_Spurious\_Emission\_NVNT\_ANT1\_2Mbps\_2440



## 1\_Reference\_Level\_NVNT\_ANT1\_2Mbps\_2480



## 2\_Spurious\_Emission\_NVNT\_ANT1\_2Mbps\_2480



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