



# TEST REPORT

Reference No..... : WTX23X10217249W003  
FCC ID..... : 2AOKB-T86P2  
Applicant..... : Anker Innovations Limited  
Address..... : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon,  
Hong Kong  
Manufacturer..... : The same as Applicant  
Address..... : The same as Applicant  
Product Name..... : 4G LTE Cam S330  
Model No..... : T86P2  
Standards..... : 47 CFR Part 15 Subpart C  
Date of Receipt sample..... : 2023-09-04  
Date of Test..... : 2023-09-08 to 2023-10-12  
Date of Issue..... : 2023-10-13  
Test Report Form No. .... : WTX\_Part 15\_247W  
Test Result..... : Pass

## Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

## Prepared By:

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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2023-10-13    | Original    |
| /           | /             | /           |

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## 1. GENERAL INFORMATION

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

| General Description of EUT                                                             |                 |
|----------------------------------------------------------------------------------------|-----------------|
| Product Name:                                                                          | 4G LTE Cam S330 |
| Trade Name:                                                                            | eufy SECURITY   |
| Model No.:                                                                             | T86P2           |
| Adding Model(s):                                                                       | /               |
| Rated Voltage:                                                                         | Battery 3.69V   |
| Battery Change Limit:                                                                  | 4.2V            |
| Note: The test data is gathered from a production sample provided by the manufacturer. |                 |

| Technical Characteristics of EUT |                                                           |
|----------------------------------|-----------------------------------------------------------|
| Support Standards:               | 802.11b, 802.11g, 802.11n                                 |
| Frequency Range:                 | 2412-2462MHz for 802.11b/g/n(HT20)                        |
| RF Output Power:                 | 20.44dBm (Peak Conducted)<br>24.59dBm (Average Conducted) |
| Type of Modulation:              | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM                       |
| Quantity of Channels:            | 11 for 802.11b/g/n(HT20)                                  |
| Channel Separation:              | 5MHz                                                      |
| Type of Antenna:                 | FPC Antenna                                               |
| Antenna Gain:                    | 3.35dBi                                                   |



## 1.2 Test Standards

The tests were performed according to following standards:

**FCC Rules Part 15.247:** Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

**KDB558074 D01 15.247 Meas Guidance v05r02:** Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the Fcc rules.

**ANSI C63.10-2013:** American National Standard for Testing Unlicensed Wireless Devices.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

### Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

### FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.



## 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

| Test Mode List |              |                                          |
|----------------|--------------|------------------------------------------|
| Test Mode      | Description  | Remark                                   |
| TM1            | 802.11b      | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM2            | 802.11g      | Low:2412MHz, Middle:2437MHz,High:2462MHz |
| TM3            | 802.11n-HT20 | Low:2412MHz, Middle:2437MHz,High:2462MHz |

| Test Conditions    |           |
|--------------------|-----------|
| Temperature:       | 22~25 °C  |
| Relative Humidity: | 45~55 %.  |
| ATM Pressure:      | 1019 mbar |

| EUT Cable List and Details |            |                     |                        |
|----------------------------|------------|---------------------|------------------------|
| Cable Description          | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| Type-C Cable               | 0.6        | Unshielded          | Without Ferrite        |

| Special Cable List and Details |            |                     |                        |
|--------------------------------|------------|---------------------|------------------------|
| Cable Description              | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| /                              | /          | /                   | /                      |

| Auxiliary Equipment List and Details |              |                   |               |
|--------------------------------------|--------------|-------------------|---------------|
| Description                          | Manufacturer | Model             | Serial Number |
| Adapter                              | TianYin      | TPA-98B050100CU01 | /             |



## 1.6 Measurement Uncertainty

| Measurement uncertainty        |            |                                |
|--------------------------------|------------|--------------------------------|
| Parameter                      | Conditions | Uncertainty                    |
| RF Output Power                | Conducted  | $\pm 0.42\text{dB}$            |
| Occupied Bandwidth             | Conducted  | $\pm 1.5\%$                    |
| Power Spectral Density         | Conducted  | $\pm 1.8\text{dB}$             |
| Conducted Spurious Emission    | Conducted  | $\pm 2.17\text{dB}$            |
| Conducted Emissions            | Conducted  | 9-150kHz $\pm 3.74\text{dB}$   |
|                                |            | 0.15-30MHz $\pm 3.34\text{dB}$ |
| Transmitter Spurious Emissions | Radiated   | 30-200MHz $\pm 4.52\text{dB}$  |
|                                |            | 0.2-1GHz $\pm 5.56\text{dB}$   |
|                                |            | 1-6GHz $\pm 3.84\text{dB}$     |
|                                |            | 6-26GHz $\pm 3.92\text{dB}$    |

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### 1.7 Test Equipment List and Details

| Fixed asset Number                                       | Description              | Manufacturer    | Model       | Serial No.     | Cal Date   | Due. Date  |
|----------------------------------------------------------|--------------------------|-----------------|-------------|----------------|------------|------------|
| WTXE1005A<br>1005                                        | Spectrum Analyzer        | Agilent         | N9020A      | US471401<br>02 | 2023-02-25 | 2024-02-24 |
| WTXE1084A<br>1001                                        | Spectrum Analyzer        | Agilent         | N9020A      | MY543205<br>48 | 2023-02-25 | 2024-02-24 |
| <input type="checkbox"/> Chamber A: Below 1GHz           |                          |                 |             |                |            |            |
| WTXE1005A<br>1003                                        | Spectrum Analyzer        | Rohde & Schwarz | FSP30       | 836079/03<br>5 | 2023-02-25 | 2024-02-24 |
| WTXE1007A<br>1001                                        | EMI Test Receiver        | Rohde & Schwarz | ESVB        | 825471/00<br>5 | 2023-02-25 | 2024-02-24 |
| WTXE1007A<br>1001                                        | Amplifier                | HP              | 8447F       | 2805A034<br>75 | 2023-02-25 | 2024-02-24 |
| WTXE1010A<br>1007                                        | Loop Antenna             | Schwarz beck    | FMZB 1516   | 9773           | 2021-03-20 | 2024-03-19 |
| WTXE1010A<br>1006                                        | Broadband Antenna        | Schwarz beck    | VULB9163    | 9163-333       | 2023-03-20 | 2026-03-19 |
| <input type="checkbox"/> Chamber A: Above 1GHz           |                          |                 |             |                |            |            |
| WTXE1005A<br>1003                                        | Spectrum Analyzer        | Rohde & Schwarz | FSP30       | 836079/03<br>5 | 2023-02-25 | 2024-02-24 |
| WTXE1007A<br>1001                                        | EMI Test Receiver        | Rohde & Schwarz | ESVB        | 825471/00<br>5 | 2023-02-25 | 2024-02-24 |
| WTXE1065A<br>1001                                        | Amplifier                | C&D             | PAP-1G18    | 14918          | 2023-02-25 | 2024-02-24 |
| WTXE1010A<br>1005                                        | Horn Antenna             | ETS             | 3117        | 00086197       | 2021-03-19 | 2024-03-18 |
| WTXE1010A<br>1010                                        | DRG Horn Antenna         | A.H. SYSTEMS    | SAS-574     | 571            | 2021-03-19 | 2024-03-18 |
| WTXE1003A<br>1001                                        | Pre-amplifier            | Schwarzbeck     | BBV 9721    | 9721-031       | 2023-02-25 | 2024-02-24 |
| <input type="checkbox"/> Chamber B:Below 1GHz            |                          |                 |             |                |            |            |
| WTXE1010A<br>1006                                        | Trilog Broadband Antenna | Schwarz beck    | VULB9163(B) | 9163-635       | 2021-04-09 | 2024-04-08 |
| WTXE1010A<br>1007                                        | Loop Antenna             | Schwarz beck    | FMZB 1516   | 9773           | 2021-03-20 | 2024-03-19 |
| WTXE1038A<br>1001                                        | Amplifier                | Agilent         | 8447D       | 2944A101<br>79 | 2023-02-25 | 2024-02-24 |
| WTXE1001A<br>1002                                        | EMI Test Receiver        | Rohde & Schwarz | ESPI        | 101391         | 2023-02-25 | 2024-02-24 |
| <input checked="" type="checkbox"/> Chamber C:Below 1GHz |                          |                 |             |                |            |            |



|                                                           |                          |                 |             |                 |            |            |
|-----------------------------------------------------------|--------------------------|-----------------|-------------|-----------------|------------|------------|
| WTXE1093A<br>1001                                         | EMI Test Receiver        | Rohde & Schwarz | ESIB 26     | 100401          | 2023-02-25 | 2024-02-24 |
| WTXE1010A<br>1013-1                                       | Trilog Broadband Antenna | Schwarz beck    | VULB 9168   | 1194            | 2021-05-28 | 2024-05-27 |
| WTXE1010A<br>1007                                         | Loop Antenna             | Schwarz beck    | FMZB 1516   | 9773            | 2021-03-20 | 2024-03-19 |
| WTXE1007A<br>1002                                         | Amplifier                | HP              | 8447F       | 2944A038<br>69  | 2023-02-25 | 2024-02-24 |
| <input checked="" type="checkbox"/> Chamber C: Above 1GHz |                          |                 |             |                 |            |            |
| WTXE1093A<br>1001                                         | EMI Test Receiver        | Rohde & Schwarz | ESIB 26     | 100401          | 2023-02-25 | 2024-02-24 |
| WTXE1103A<br>1005                                         | Horn Antenna             | POAM            | RTF-11A     | LP228060<br>221 | 2023-03-10 | 2026-03-09 |
| WTXE1103A<br>1006                                         | Amplifier                | Tonscend        | TAP01018050 | AP22E806<br>235 | 2023-02-25 | 2024-02-24 |
| WTXE1010A<br>1010                                         | DRG Horn Antenna         | A.H. SYSTEMS    | SAS-574     | 571             | 2021-03-19 | 2024-03-18 |
| WTXE1003A<br>1001                                         | Pre-amplifier            | Schwarzbeck     | BBV 9721    | 9721-031        | 2023-02-25 | 2024-02-24 |
| <input type="checkbox"/> Conducted Room 1#                |                          |                 |             |                 |            |            |
| WTXE1001A<br>1001                                         | EMI Test Receiver        | Rohde & Schwarz | ESPI        | 101611          | 2023-02-25 | 2024-02-24 |
| WTXE1002A<br>1001                                         | Pulse Limiter            | Rohde & Schwarz | ESH3-Z2     | 100911          | 2023-02-25 | 2024-02-24 |
| WTXE1003A<br>1001                                         | AC LISN                  | Schwarz beck    | NSLK8126    | 8126-224        | 2023-02-25 | 2024-02-24 |
| <input checked="" type="checkbox"/> Conducted Room 2#     |                          |                 |             |                 |            |            |
| WTXE1001A<br>1004                                         | EMI Test Receiver        | Rohde & Schwarz | ESPI        | 101259          | 2023-02-25 | 2024-02-24 |
| WTXE1003A<br>1003                                         | LISN                     | Rohde & Schwarz | ENV 216     | 100097          | 2023-02-25 | 2024-02-24 |

| Software List                                      |              |        |         |
|----------------------------------------------------|--------------|--------|---------|
| Description                                        | Manufacturer | Model  | Version |
| EMI Test Software<br>(Radiated Emission)*          | Farad        | EZ-EMC | RA-03A1 |
| EMI Test Software<br>(Conducted Emission Room 1#)* | Farad        | EZ-EMC | RA-03A1 |
| EMI Test Software<br>(Conducted Emission Room 2#)* | SKET         | EMC-I  | V2.0    |

\*Remark: indicates software version used in the compliance certification testing.



## 2. SUMMARY OF TEST RESULTS

| FCC Rules                 | Description of Test Item          | Result    |
|---------------------------|-----------------------------------|-----------|
| §15.203; §15.247(b)(4)(i) | Antenna Requirement               | Compliant |
| /                         | Duty Cycle of Test Signal         | Compliant |
| §15.205                   | Restricted Band of Operation      | Compliant |
| §15.207(a)                | Conducted Emission                | Compliant |
| §15.247(e)                | Power Spectral Density            | Compliant |
| §15.247(a)(2)             | DTS Bandwidth                     | Compliant |
| §15.247(b)(3)             | RF Output Power                   | Compliant |
| §15.209(a)                | Radiated Emission                 | Compliant |
| §15.247(d)                | Band Edge (Out of Band Emissions) | Compliant |

N/A: Not applicable.

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### 3. Antenna Requirement

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#### 3.1 Standard Applicable

According to FCC 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.

#### 3.2 Evaluation Information

Inside of the EUT has a FPC antenna coupled with the metal shrapnel, fulfill the requirement of this section.

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## 4. Duty Cycle of Test Signal

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### 4.1 Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration(T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than  $\pm 2\%$ ; otherwise, the duty cycle is considered to be non constant.

### 4.2 Summary of Test Results/Plots

Please refer to Appendix A



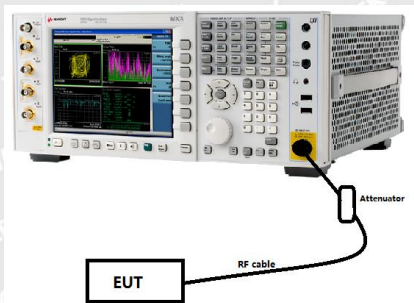
## 5. Power Spectral Density

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### 5.1 Standard Applicable

According to 15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 5.2 Test Setup Block Diagram



### 5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to:  $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$ .
- Set VBW  $\geq 3 \times \text{RBW}$ .
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

### 5.4 Summary of Test Results/Plots

Please refer to Appendix B



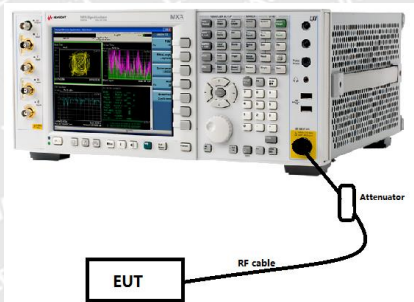
## 6. DTS Bandwidth

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### 6.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

### 6.2 Test Setup Block Diagram



### 6.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- Set RBW = 100kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.4 Summary of Test Results/Plots

Please refer to Appendix C

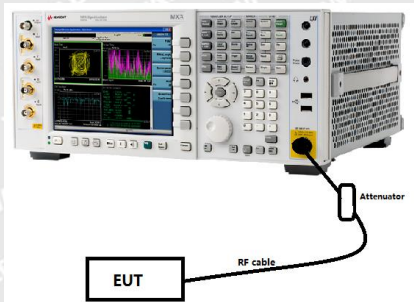


## 7. RF Output Power

### 7.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

### 7.2 Test Setup Block Diagram



### 7.3 Test Procedure

According to the KDB-558074 D01 v05r02 Sub clause 8.3.2.2 and ANSI C63.10-2013 Sub clause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth.

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- c) Set VBW  $\geq 3 \times$  RBW.
- d) Number of points in sweep  $\geq 2 \times$  span / RBW. (This gives bin-to-bin spacing  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle  $< 98\%$ , use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98\%$ , and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

### 7.4 Summary of Test Results/Plots

Please refer to Appendix D



## 8. Field Strength of Spurious Emissions

### 8.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. 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).

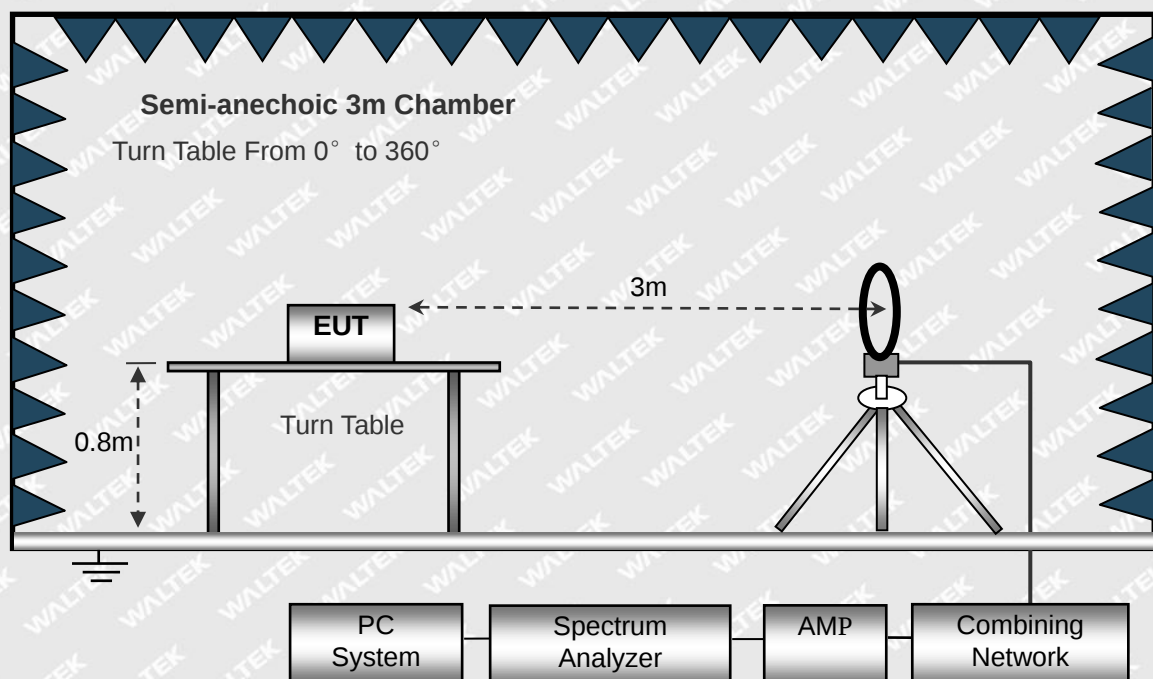
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

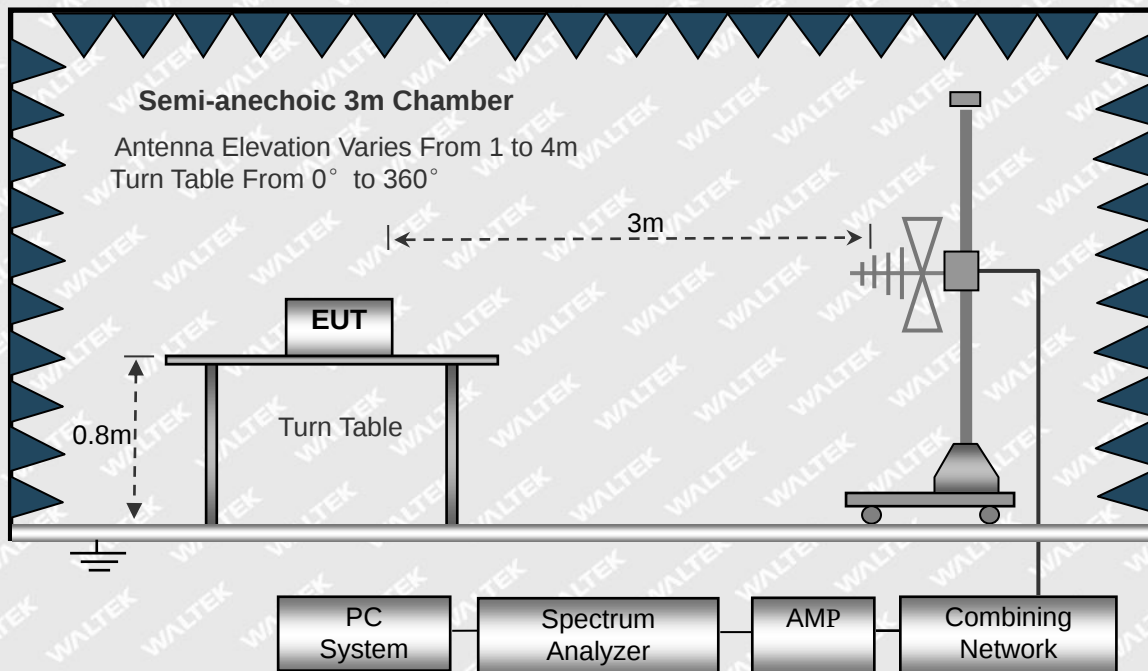
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

The test setup for emission measurement below 30MHz.

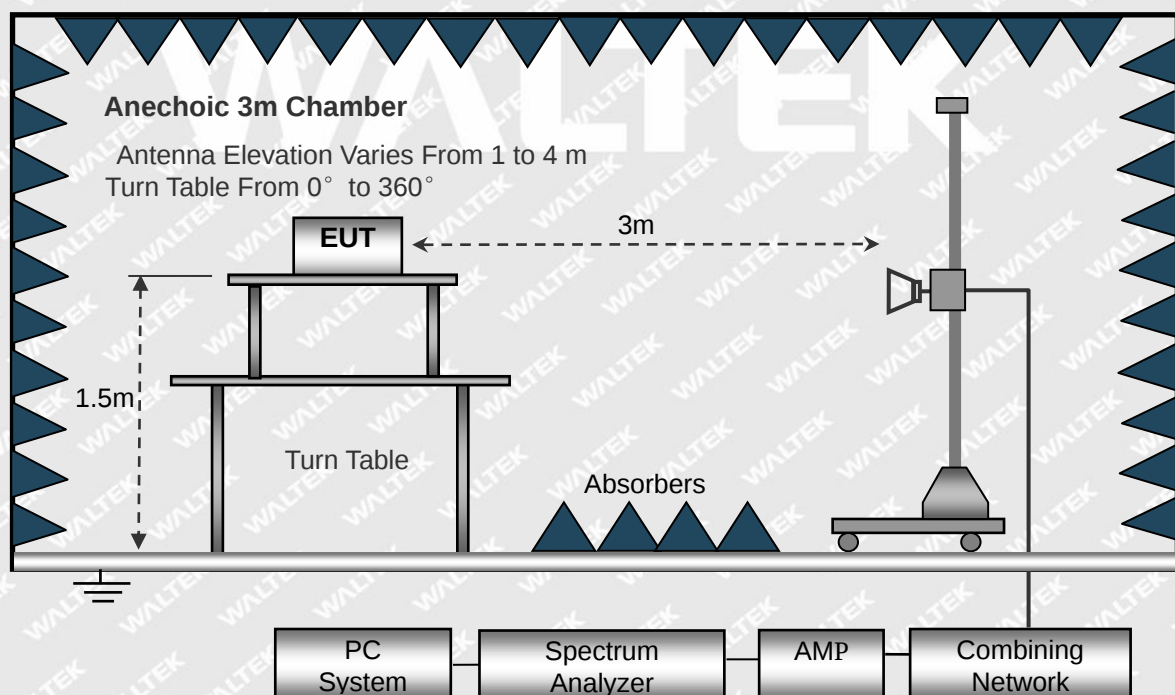




The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.





Reference No.: WTX23X10217249W003

Frequency :9kHz-30MHz

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

### 8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

### 8.4 Summary of Test Results/Plots

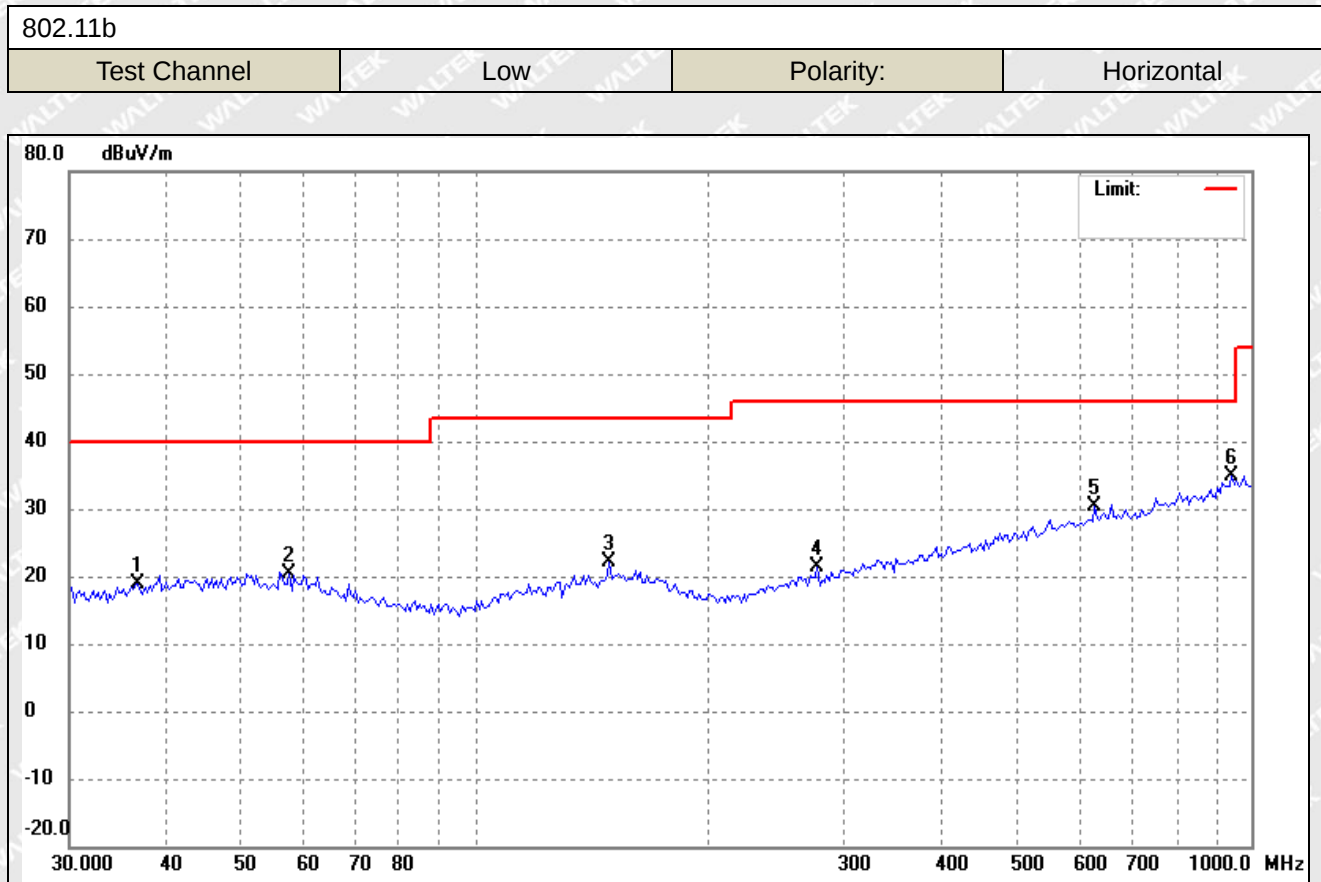
*Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.*

*All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b\_11Mbps) is recorded in this report.*

*2. The Fundamental refer to the test diagram in the restricted band section.*



## ➤ Spurious Emissions Below 1GHz

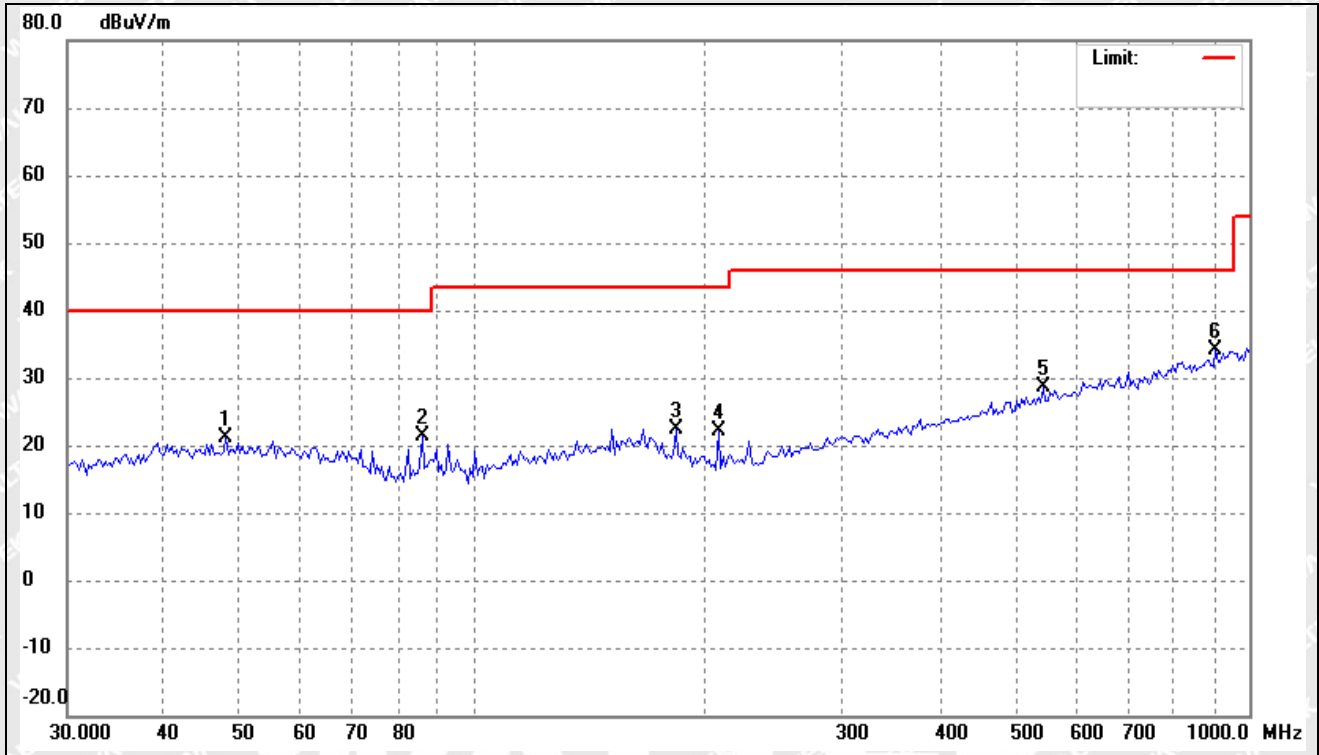


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 36.7811            | 28.13               | -9.17           | 18.96              | 40.00             | -21.04         | -             | -              | peak   |
| 2   | 57.6693            | 29.29               | -8.79           | 20.50              | 40.00             | -19.50         | -             | -              | peak   |
| 3   | 148.9175           | 30.90               | -8.68           | 22.22              | 43.50             | -21.28         | -             | -              | peak   |
| 4   | 276.3818           | 30.37               | -9.06           | 21.31              | 46.00             | -24.69         | -             | -              | peak   |
| 5   | 628.8936           | 31.72               | -1.38           | 30.34              | 46.00             | -15.66         | -             | -              | peak   |
| 6   | 945.3336           | 32.64               | 2.15            | 34.79              | 46.00             | -11.21         | -             | -              | peak   |



802.11b

|              |     |           |          |
|--------------|-----|-----------|----------|
| Test Channel | Low | Polarity: | Vertical |
|--------------|-----|-----------|----------|

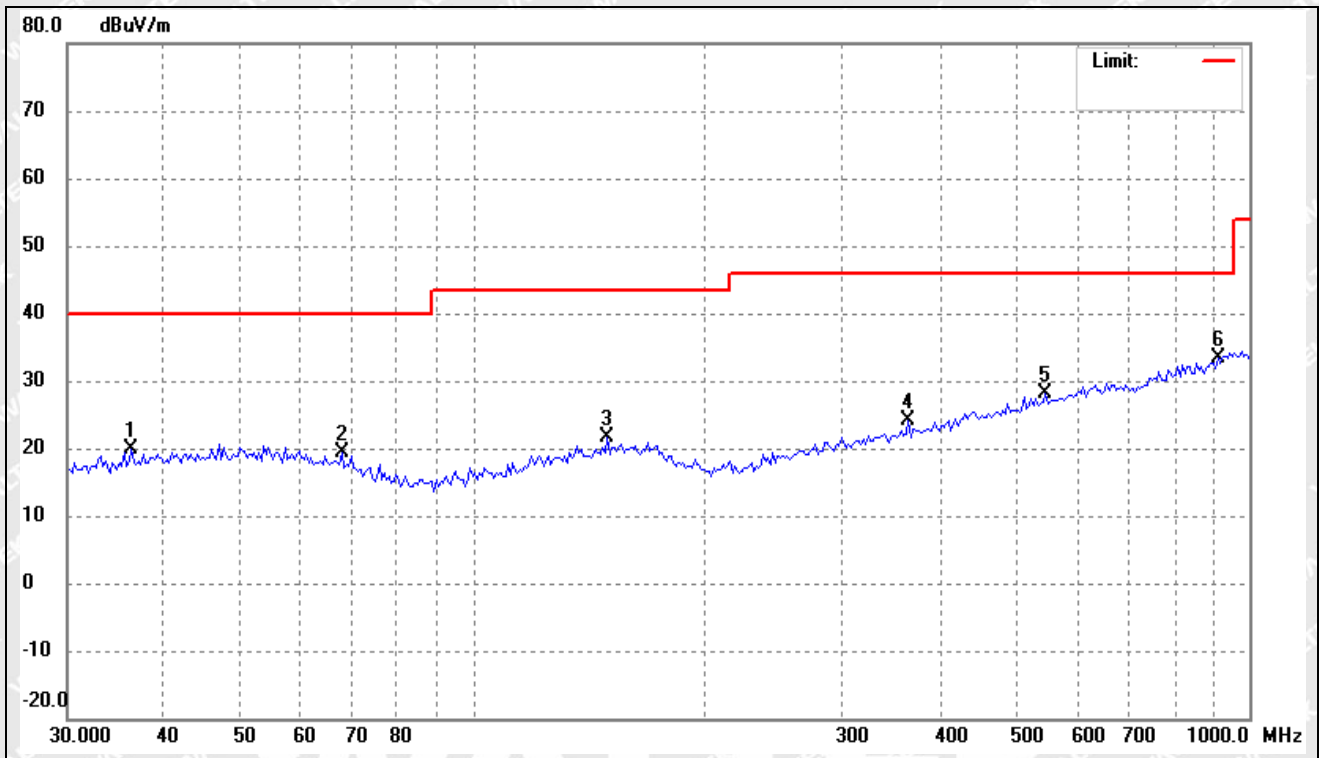


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 48.0392            | 29.27               | -8.23           | 21.04              | 40.00             | -18.96         | -             | -              | peak   |
| 2   | 86.0795            | 34.53               | -13.04          | 21.49              | 40.00             | -18.51         | -             | -              | peak   |
| 3   | 182.5785           | 32.96               | -10.60          | 22.36              | 43.50             | -21.14         | -             | -              | peak   |
| 4   | 207.1968           | 34.14               | -12.13          | 22.01              | 43.50             | -21.49         | -             | -              | peak   |
| 5   | 542.6104           | 31.78               | -3.05           | 28.73              | 46.00             | -17.27         | -             | -              | peak   |
| 6   | 906.3041           | 32.76               | 1.32            | 34.08              | 46.00             | -11.92         | -             | -              | peak   |



802.11b

|              |        |           |            |
|--------------|--------|-----------|------------|
| Test Channel | Middle | Polarity: | Horizontal |
|--------------|--------|-----------|------------|

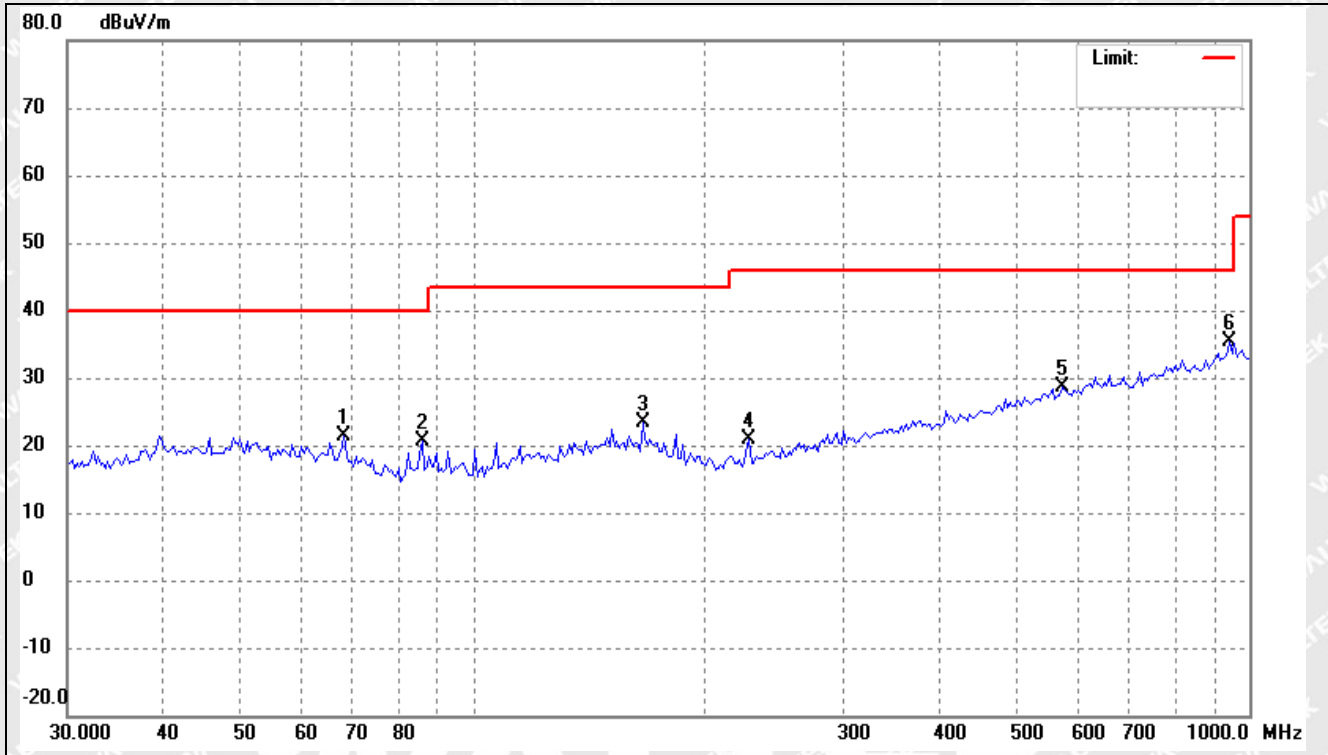


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 36.2678            | 29.06               | -9.28           | 19.78              | 40.00             | -20.22         | -             | -              | peak   |
| 2   | 67.7856            | 29.74               | -10.36          | 19.38              | 40.00             | -20.62         | -             | -              | peak   |
| 3   | 148.9175           | 30.39               | -8.68           | 21.71              | 43.50             | -21.79         | -             | -              | peak   |
| 4   | 363.5231           | 31.00               | -6.76           | 24.24              | 46.00             | -21.76         | -             | -              | peak   |
| 5   | 546.4368           | 31.12               | -2.94           | 28.18              | 46.00             | -17.82         | -             | -              | peak   |
| 6   | 912.6953           | 32.01               | 1.46            | 33.47              | 46.00             | -12.53         | -             | -              | peak   |



802.11b

|              |        |           |          |
|--------------|--------|-----------|----------|
| Test Channel | Middle | Polarity: | Vertical |
|--------------|--------|-----------|----------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 68.2636            | 31.71               | -10.45          | 21.26              | 40.00             | -18.74         | -             | -              | peak   |
| 2   | 86.0795            | 33.71               | -13.04          | 20.67              | 40.00             | -19.33         | -             | -              | peak   |
| 3   | 165.4716           | 32.16               | -8.76           | 23.40              | 43.50             | -20.10         | -             | -              | peak   |
| 4   | 227.0164           | 32.66               | -11.76          | 20.90              | 46.00             | -25.10         | -             | -              | peak   |
| 5   | 573.9882           | 30.86               | -2.27           | 28.59              | 46.00             | -17.41         | -             | -              | peak   |
| 6   | 945.3336           | 33.11               | 2.15            | 35.26              | 46.00             | -10.74         | -             | -              | peak   |



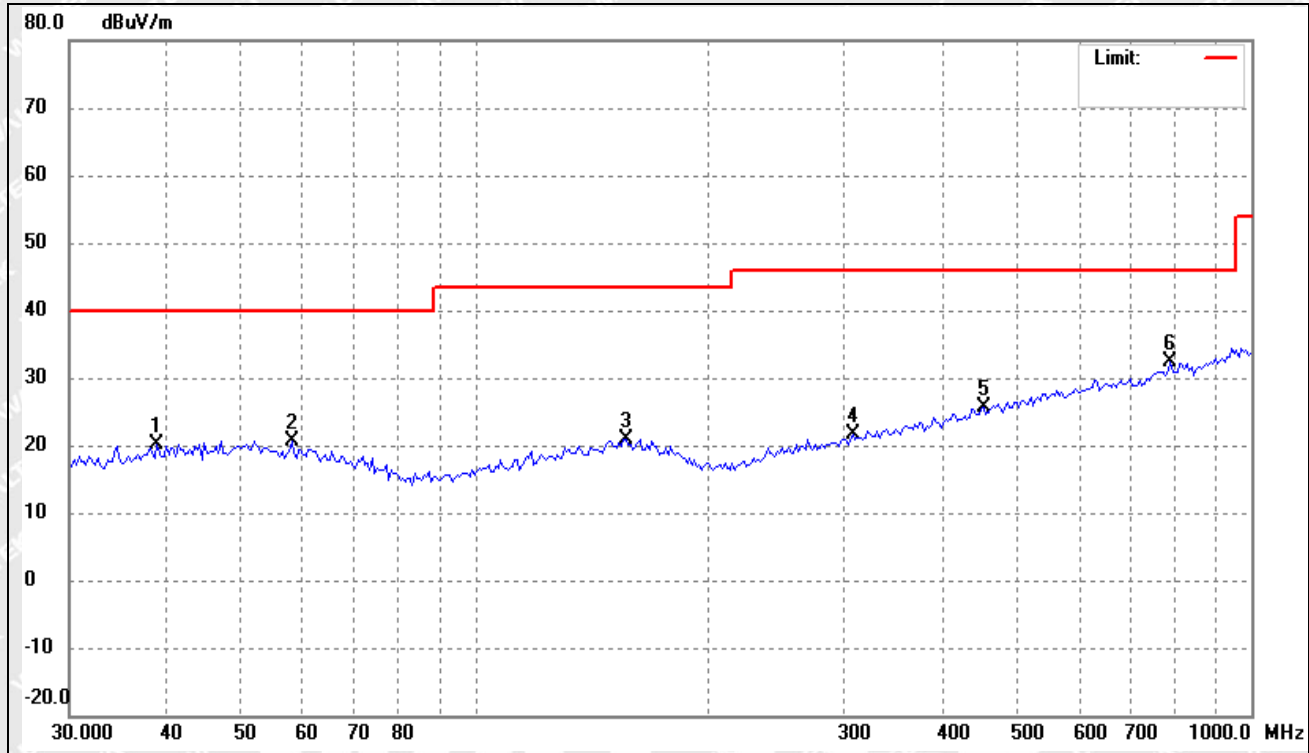
802.11b

Test Channel

High

Polarity:

Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 38.9081            | 28.86               | -8.72           | 20.14              | 40.00             | -19.86         | -             | -              | peak   |
| 2   | 58.0759            | 29.35               | -8.82           | 20.53              | 40.00             | -19.47         | -             | -              | peak   |
| 3   | 156.4259           | 29.55               | -8.60           | 20.95              | 43.50             | -22.55         | -             | -              | peak   |
| 4   | 307.1053           | 29.78               | -8.06           | 21.72              | 46.00             | -24.28         | -             | -              | peak   |
| 5   | 452.0013           | 30.09               | -4.56           | 25.53              | 46.00             | -20.47         | -             | -              | peak   |
| 6   | 787.4749           | 32.07               | 0.19            | 32.26              | 46.00             | -13.74         | -             | -              | peak   |



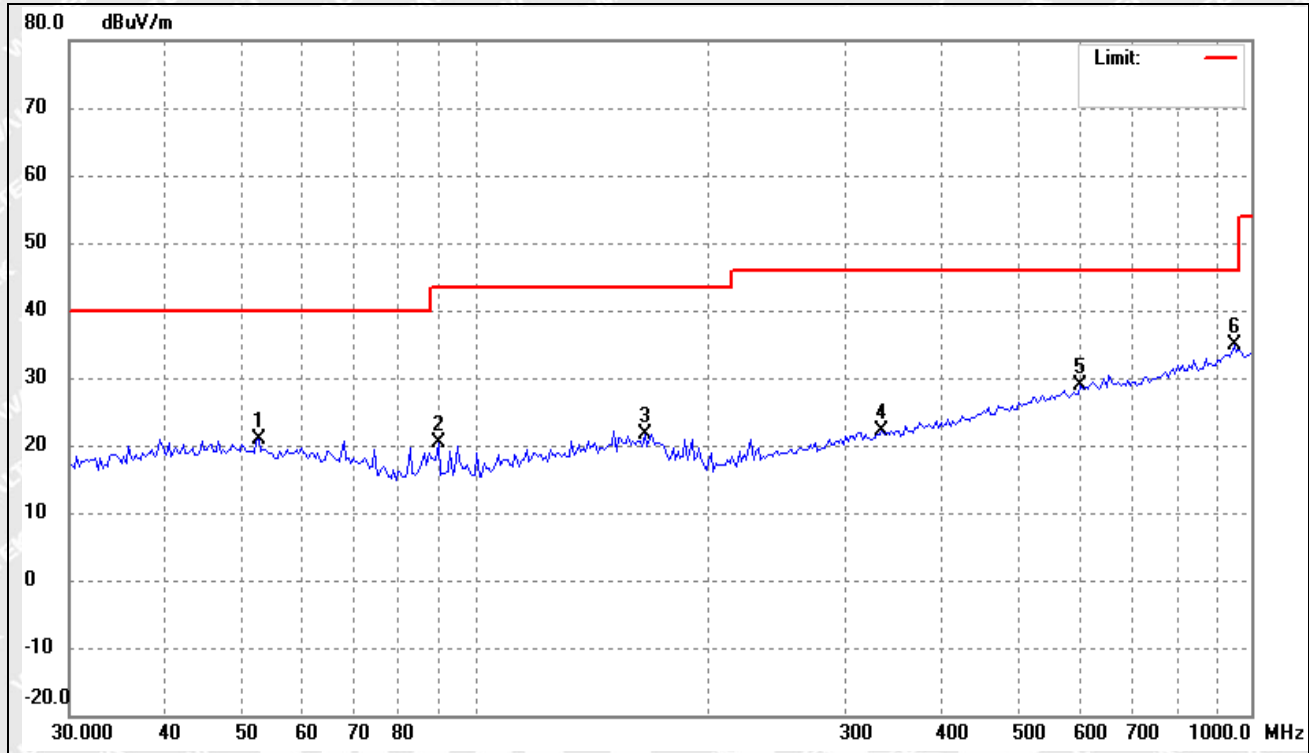
802.11b

Test Channel

High

Polarity:

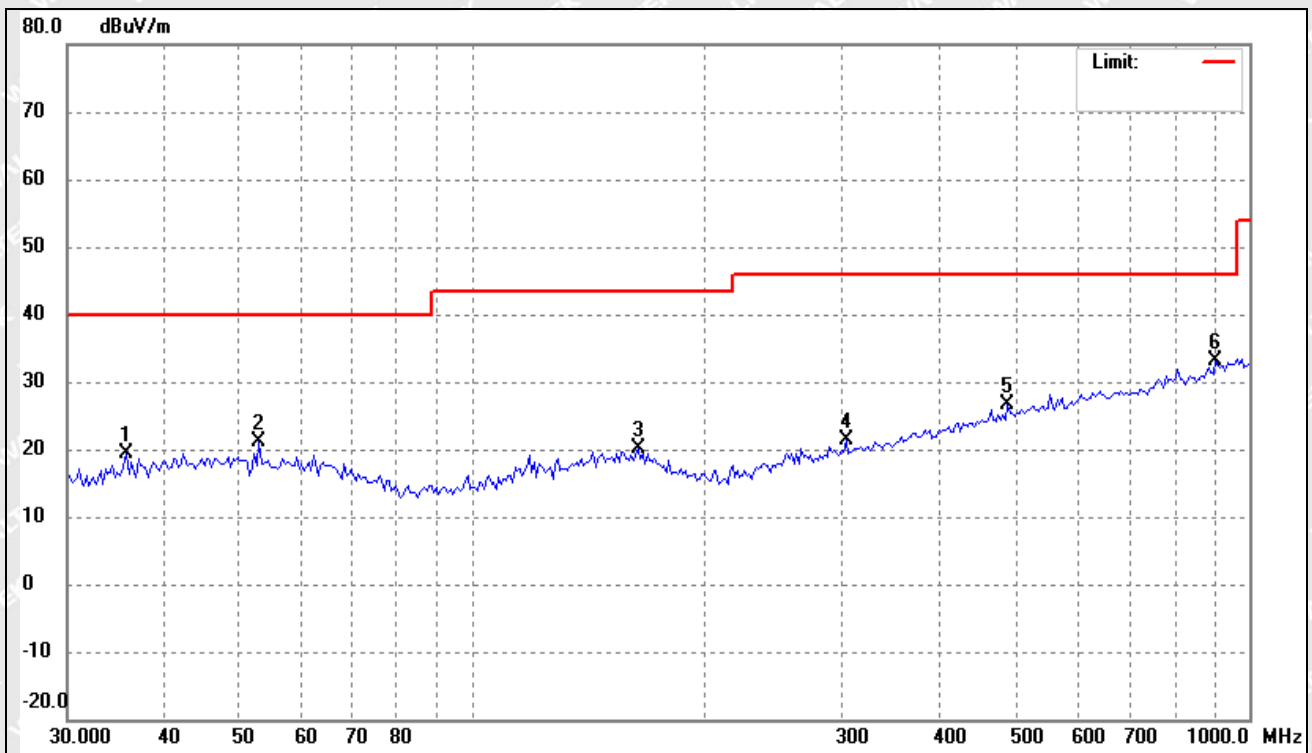
Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 52.6345            | 29.17               | -8.37           | 20.80              | 40.00             | -19.20         | -             | -              | peak   |
| 2   | 89.7866            | 33.56               | -13.10          | 20.46              | 43.50             | -23.04         | -             | -              | peak   |
| 3   | 165.4716           | 30.47               | -8.76           | 21.71              | 43.50             | -21.79         | -             | -              | peak   |
| 4   | 334.1255           | 29.57               | -7.39           | 22.18              | 46.00             | -23.82         | -             | -              | peak   |
| 5   | 602.9287           | 30.50               | -1.71           | 28.79              | 46.00             | -17.21         | -             | -              | peak   |
| 6   | 952.0001           | 32.67               | 2.25            | 34.92              | 46.00             | -11.08         | -             | -              | peak   |



|              |     |           |            |
|--------------|-----|-----------|------------|
| 802.11g      |     |           |            |
| Test Channel | Low | Polarity: | Horizontal |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 35.7617            | 28.67               | -9.39           | 19.28              | 40.00             | -20.72         | -             | -              | peak   |
| 2   | 53.0056            | 29.51               | -8.41           | 21.10              | 40.00             | -18.90         | -             | -              | peak   |
| 3   | 163.1623           | 28.74               | -8.70           | 20.04              | 43.50             | -23.46         | -             | -              | peak   |
| 4   | 302.8193           | 29.56               | -8.18           | 21.38              | 46.00             | -24.62         | -             | -              | peak   |
| 5   | 488.3263           | 30.57               | -4.06           | 26.51              | 46.00             | -19.49         | -             | -              | peak   |
| 6   | 906.3041           | 31.84               | 1.32            | 33.16              | 46.00             | -12.84         | -             | -              | peak   |



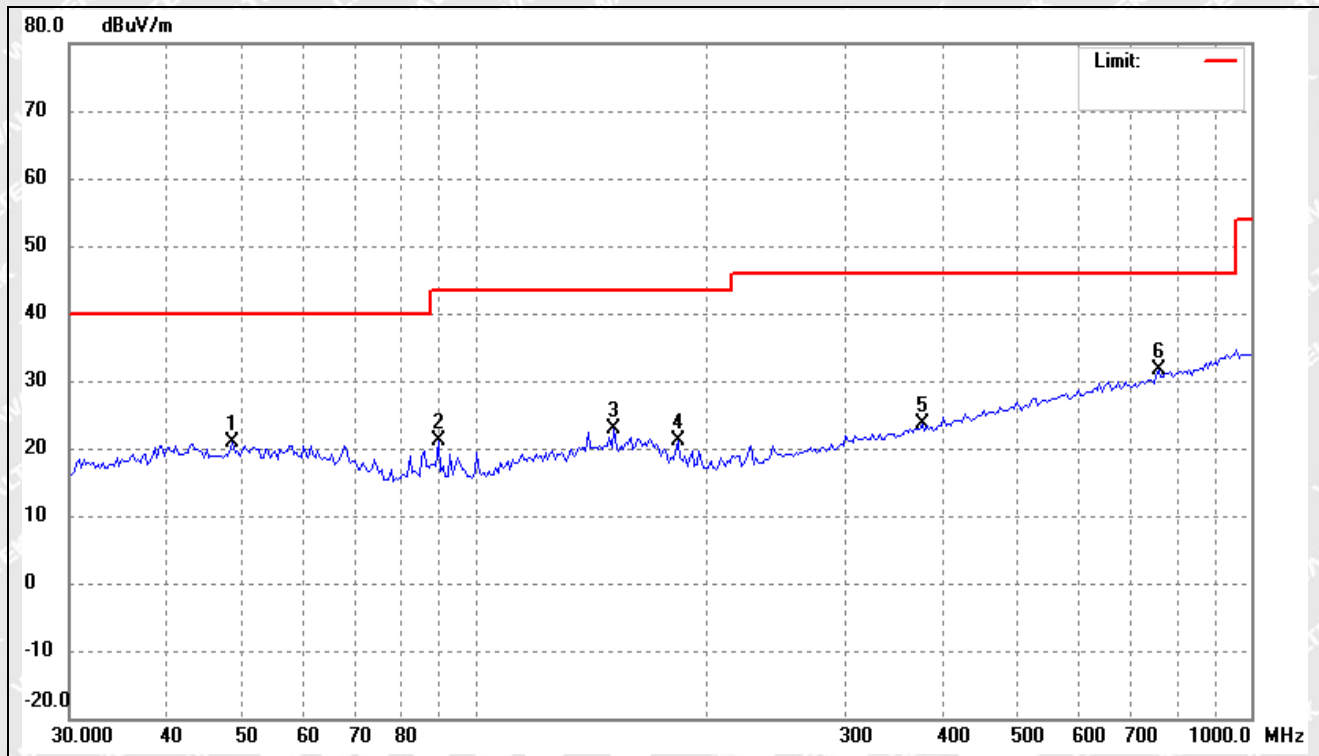
802.11g

Test Channel

Low

Polarity:

Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 48.7191            | 29.02               | -8.18           | 20.84              | 40.00             | -19.16         | -             | -              | peak   |
| 2   | 89.7866            | 34.17               | -13.10          | 21.07              | 43.50             | -22.43         | -             | -              | peak   |
| 3   | 151.0252           | 31.56               | -8.61           | 22.95              | 43.50             | -20.55         | -             | -              | peak   |
| 4   | 182.5785           | 31.69               | -10.60          | 21.09              | 43.50             | -22.41         | -             | -              | peak   |
| 5   | 376.5228           | 30.04               | -6.44           | 23.60              | 46.00             | -22.40         | -             | -              | peak   |
| 6   | 760.2867           | 31.69               | -0.07           | 31.62              | 46.00             | -14.38         | -             | -              | peak   |



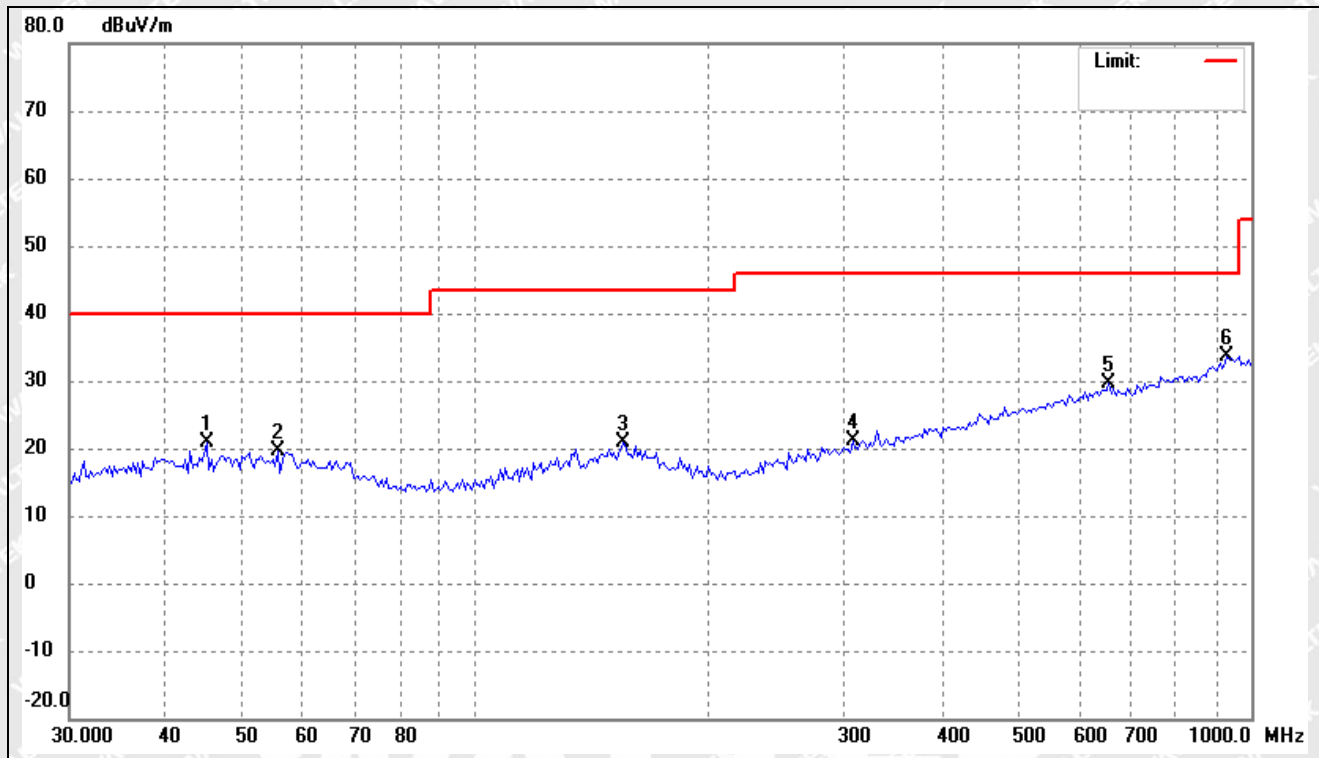
802.11g

Test Channel

Middle

Polarity:

Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 45.0951            | 29.45               | -8.46           | 20.99              | 40.00             | -19.01         | -             | -              | peak   |
| 2   | 55.6782            | 28.36               | -8.67           | 19.69              | 40.00             | -20.31         | -             | -              | peak   |
| 3   | 155.3305           | 29.50               | -8.61           | 20.89              | 43.50             | -22.61         | -             | -              | peak   |
| 4   | 307.1053           | 29.25               | -8.06           | 21.19              | 46.00             | -24.81         | -             | -              | peak   |
| 5   | 655.9766           | 31.00               | -1.30           | 29.70              | 46.00             | -16.30         | -             | -              | peak   |
| 6   | 932.1405           | 31.88               | 1.87            | 33.75              | 46.00             | -12.25         | -             | -              | peak   |



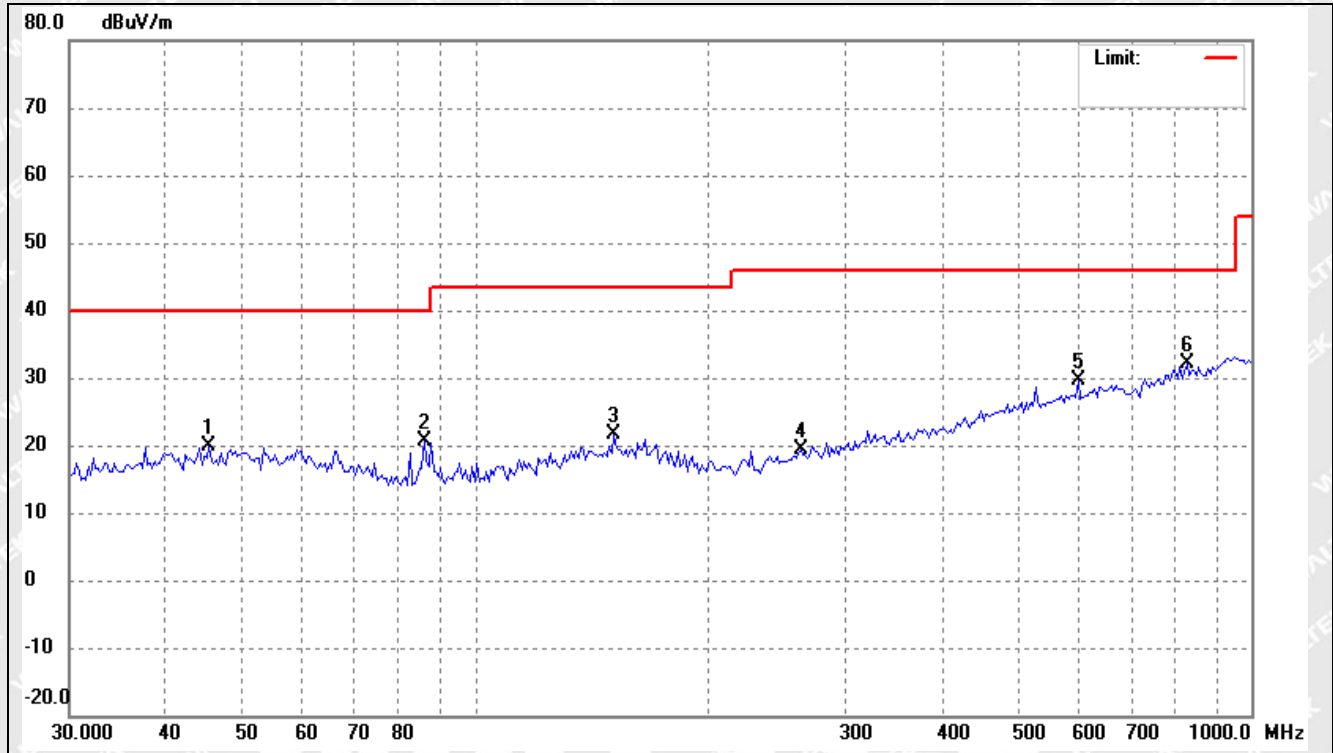
802.11g

Test Channel

Middle

Polarity:

Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 45.4131            | 28.37               | -8.43           | 19.94              | 40.00             | -20.06         | -             | -              | peak   |
| 2   | 86.0796            | 33.65               | -13.04          | 20.61              | 40.00             | -19.39         | -             | -              | peak   |
| 3   | 151.0252           | 30.30               | -8.61           | 21.69              | 43.50             | -21.81         | -             | -              | peak   |
| 4   | 263.1155           | 28.99               | -9.64           | 19.35              | 46.00             | -26.65         | -             | -              | peak   |
| 5   | 598.7067           | 31.51               | -1.77           | 29.74              | 46.00             | -16.26         | -             | -              | peak   |
| 6   | 827.1795           | 31.62               | 0.54            | 32.16              | 46.00             | -13.84         | -             | -              | peak   |



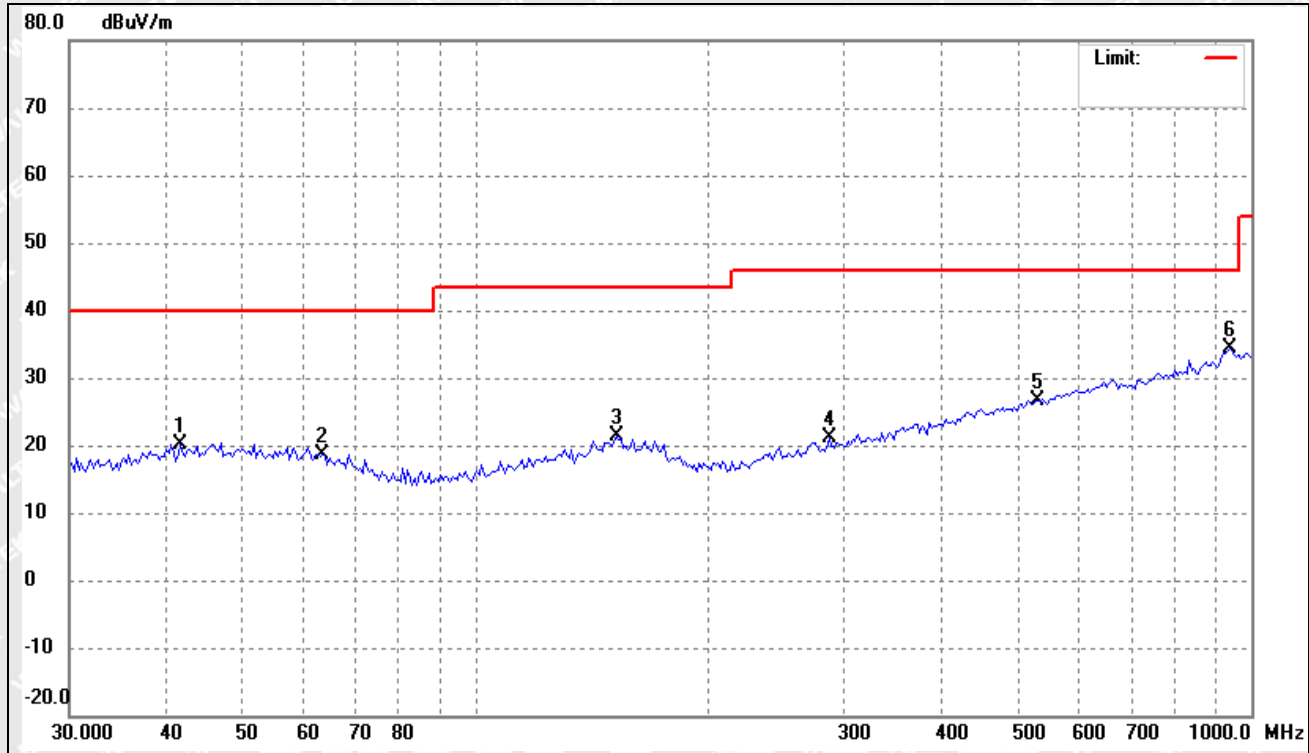
802.11g

Test Channel

High

Polarity:

Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 41.7406            | 28.69               | -8.47           | 20.22              | 40.00             | -19.78         | -             | -              | peak   |
| 2   | 63.6312            | 28.29               | -9.59           | 18.70              | 40.00             | -21.30         | -             | -              | peak   |
| 3   | 152.0902           | 29.92               | -8.60           | 21.32              | 43.50             | -22.18         | -             | -              | peak   |
| 4   | 286.2653           | 29.77               | -8.72           | 21.05              | 46.00             | -24.95         | -             | -              | peak   |
| 5   | 531.2910           | 29.95               | -3.35           | 26.60              | 46.00             | -19.40         | -             | -              | peak   |
| 6   | 938.7139           | 32.46               | 2.01            | 34.47              | 46.00             | -11.53         | -             | -              | peak   |



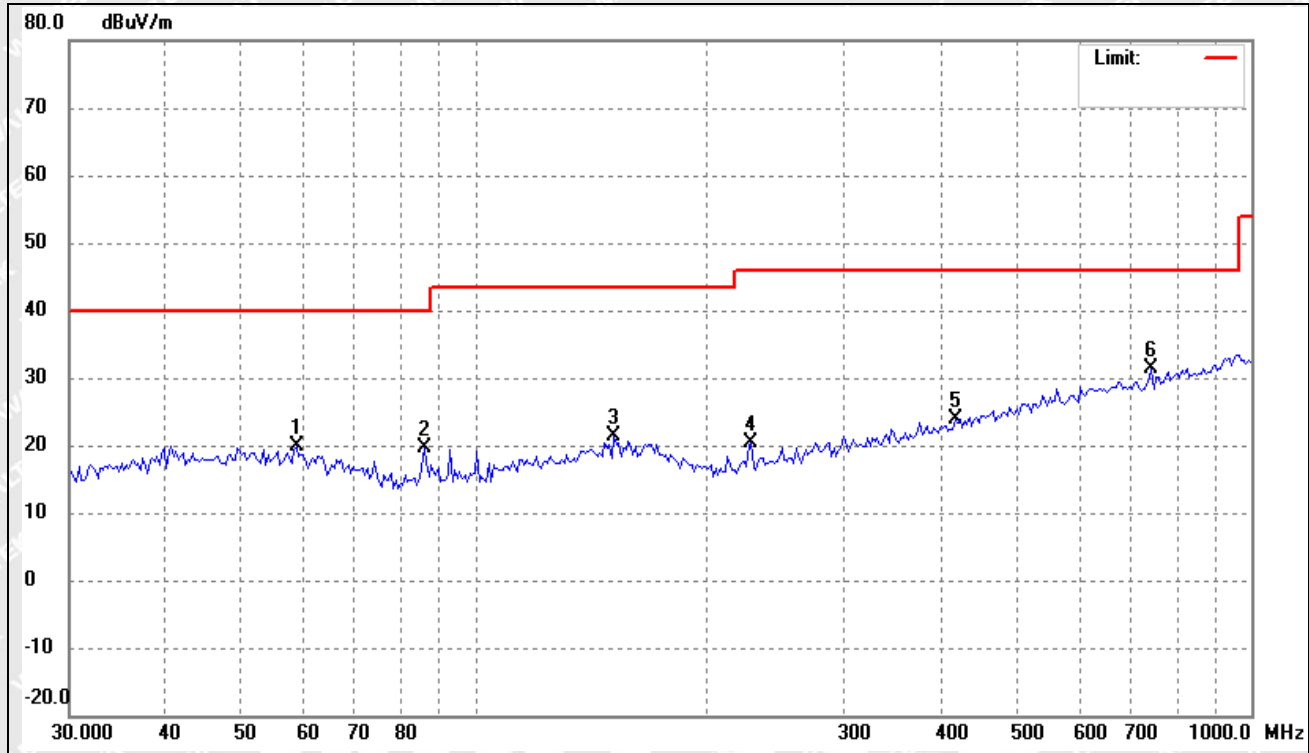
802.11g

Test Channel

High

Polarity:

Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 58.8979            | 28.65               | -8.87           | 19.78              | 40.00             | -20.22         | -             | -              | peak   |
| 2   | 86.0796            | 32.75               | -13.04          | 19.71              | 40.00             | -20.29         | -             | -              | peak   |
| 3   | 151.0252           | 30.03               | -8.61           | 21.42              | 43.50             | -22.08         | -             | -              | peak   |
| 4   | 227.0164           | 32.04               | -11.76          | 20.28              | 46.00             | -25.72         | -             | -              | peak   |
| 5   | 415.4486           | 29.52               | -5.54           | 23.98              | 46.00             | -22.02         | -             | -              | peak   |
| 6   | 744.4265           | 31.72               | -0.27           | 31.45              | 46.00             | -14.55         | -             | -              | peak   |



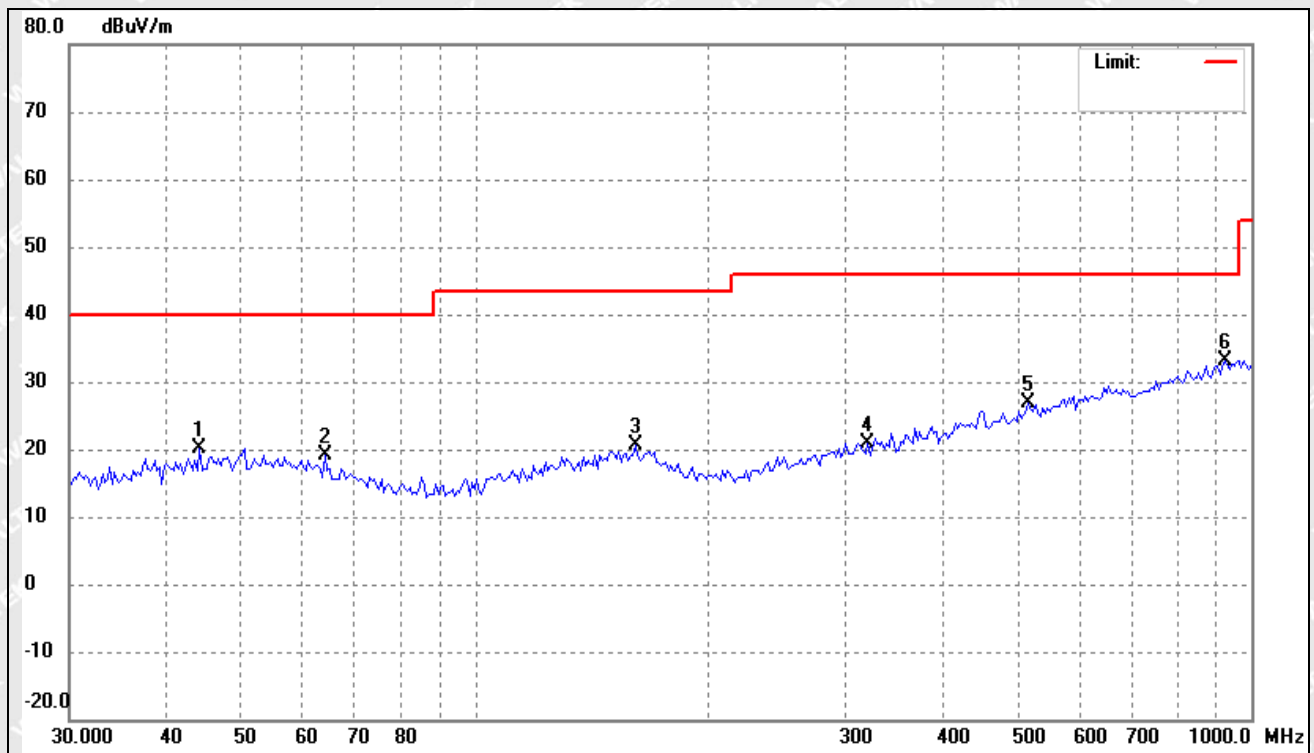
802.11n\_HT20

Test Channel

Low

Polarity:

Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 44.1544            | 28.63               | -8.47           | 20.16              | 40.00             | -19.84         | -             | -              | peak   |
| 2   | 64.0800            | 28.78               | -9.68           | 19.10              | 40.00             | -20.90         | -             | -              | peak   |
| 3   | 160.8852           | 29.38               | -8.64           | 20.74              | 43.50             | -22.76         | -             | -              | peak   |
| 4   | 320.3306           | 28.66               | -7.68           | 20.98              | 46.00             | -25.02         | -             | -              | peak   |
| 5   | 516.5651           | 30.55               | -3.65           | 26.90              | 46.00             | -19.10         | -             | -              | peak   |
| 6   | 925.6132           | 31.27               | 1.74            | 33.01              | 46.00             | -12.99         | -             | -              | peak   |



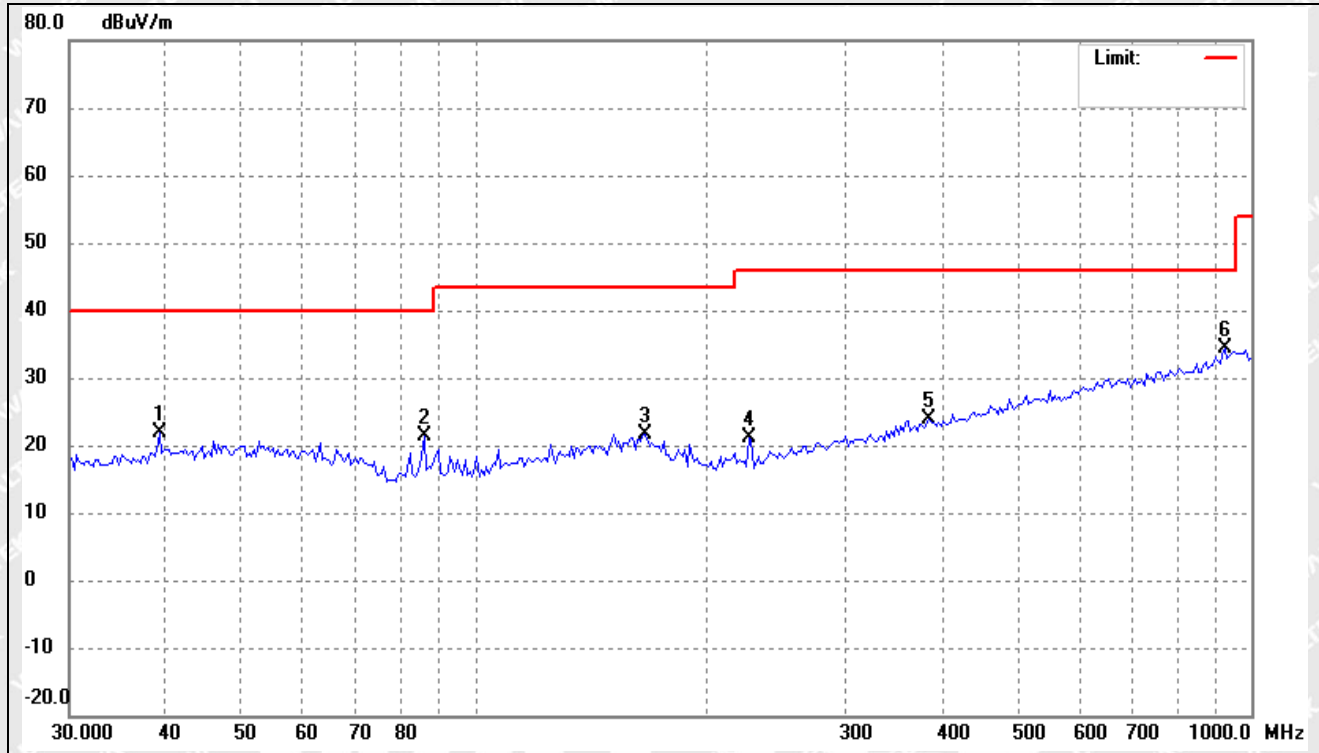
802.11n\_HT20

Test Channel

Low

Polarity:

Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 39.1825            | 30.50               | -8.65           | 21.85              | 40.00             | -18.15         | -             | -              | peak   |
| 2   | 86.0795            | 34.49               | -13.04          | 21.45              | 40.00             | -18.55         | -             | -              | peak   |
| 3   | 165.4716           | 30.47               | -8.76           | 21.71              | 43.50             | -21.79         | -             | -              | peak   |
| 4   | 225.4267           | 32.86               | -11.83          | 21.03              | 46.00             | -24.97         | -             | -              | peak   |
| 5   | 384.5447           | 30.20               | -6.28           | 23.92              | 46.00             | -22.08         | -             | -              | peak   |
| 6   | 925.6132           | 32.65               | 1.74            | 34.39              | 46.00             | -11.61         | -             | -              | peak   |



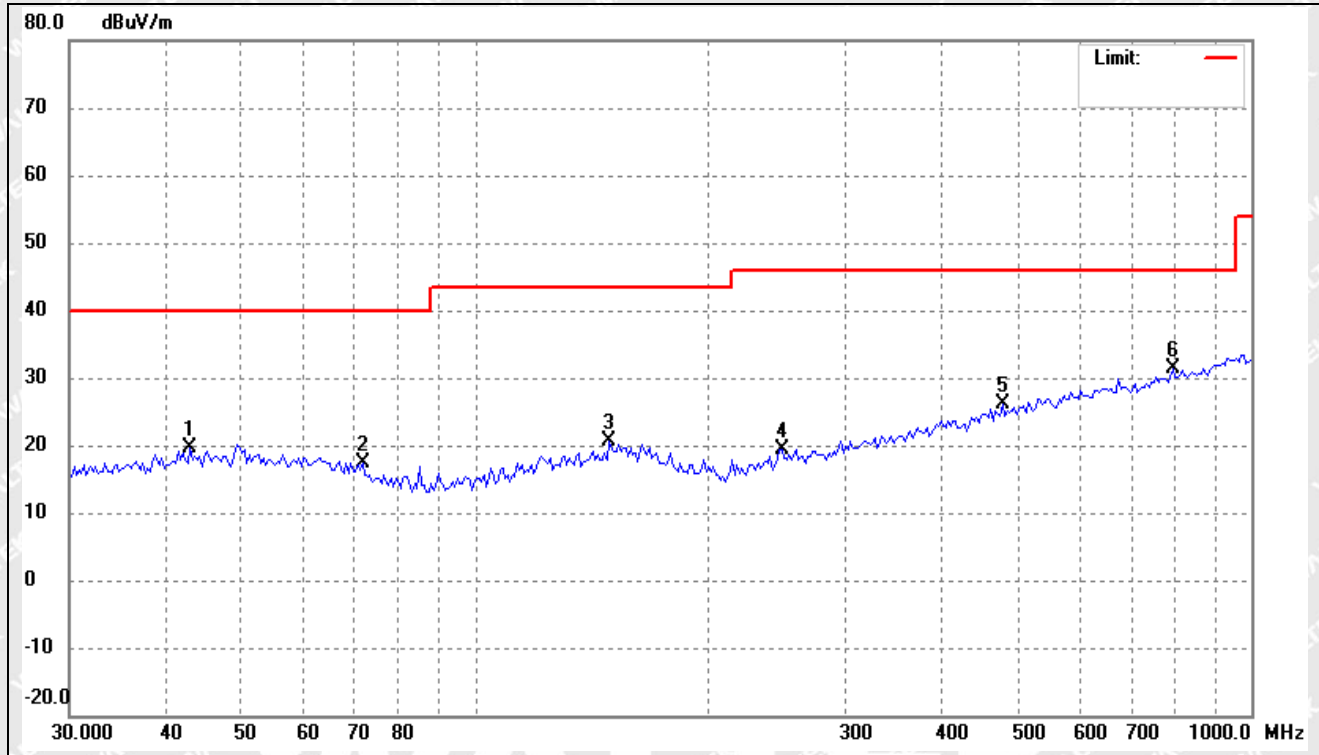
802.11n\_HT20

Test Channel

Middle

Polarity:

Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 42.9305            | 28.17               | -8.48           | 19.69              | 40.00             | -20.31         | -             | -              | peak   |
| 2   | 71.7054            | 28.46               | -11.14          | 17.32              | 40.00             | -22.68         | -             | -              | peak   |
| 3   | 148.9175           | 29.43               | -8.68           | 20.75              | 43.50             | -22.75         | -             | -              | peak   |
| 4   | 248.7319           | 29.68               | -10.26          | 19.42              | 46.00             | -26.58         | -             | -              | peak   |
| 5   | 478.1394           | 30.40               | -4.20           | 26.20              | 46.00             | -19.80         | -             | -              | peak   |
| 6   | 793.0281           | 31.13               | 0.23            | 31.36              | 46.00             | -14.64         | -             | -              | peak   |



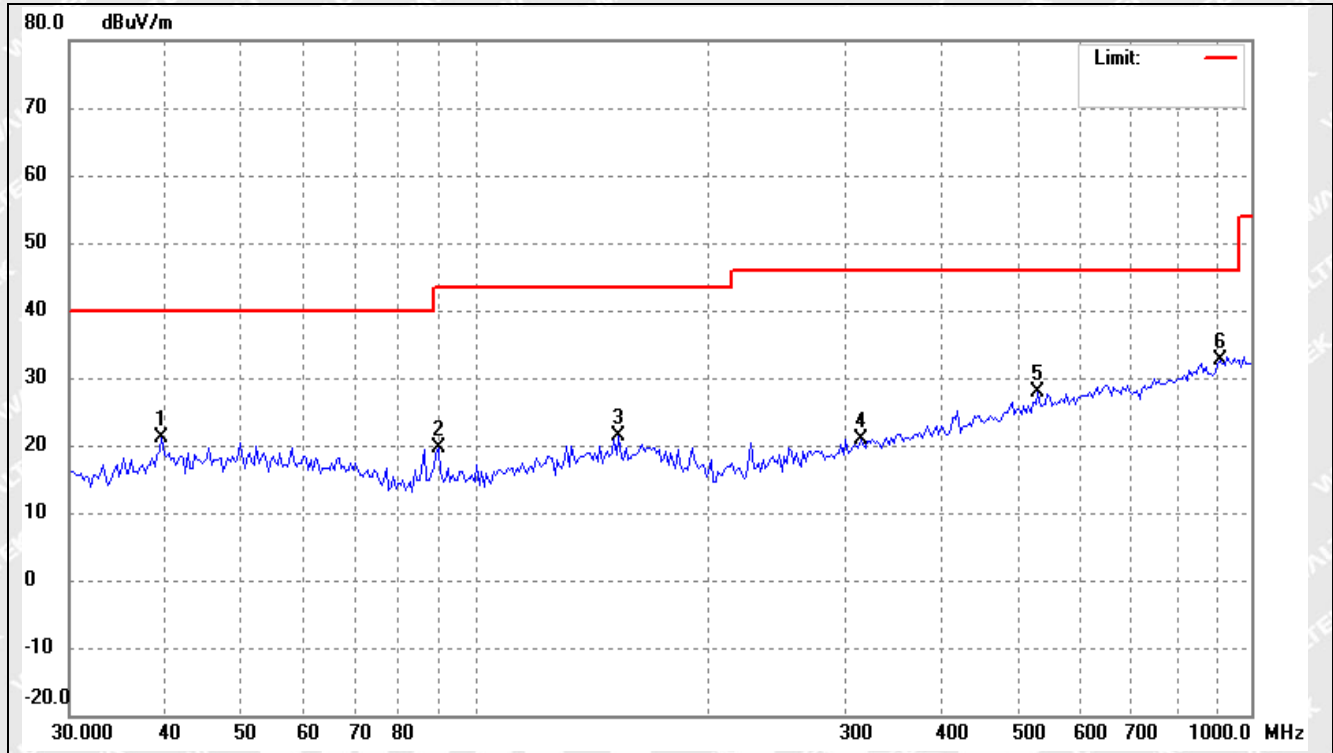
802.11n\_HT20

Test Channel

Middle

Polarity:

Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 39.4588            | 29.79               | -8.60           | 21.19              | 40.00             | -18.81         | -             | -              | peak   |
| 2   | 89.7866            | 32.72               | -13.10          | 19.62              | 43.50             | -23.88         | -             | -              | peak   |
| 3   | 153.1627           | 29.91               | -8.61           | 21.30              | 43.50             | -22.20         | -             | -              | peak   |
| 4   | 313.6483           | 28.87               | -7.87           | 21.00              | 46.00             | -25.00         | -             | -              | peak   |
| 5   | 531.2910           | 31.32               | -3.35           | 27.97              | 46.00             | -18.03         | -             | -              | peak   |
| 6   | 912.6953           | 31.17               | 1.46            | 32.63              | 46.00             | -13.37         | -             | -              | peak   |



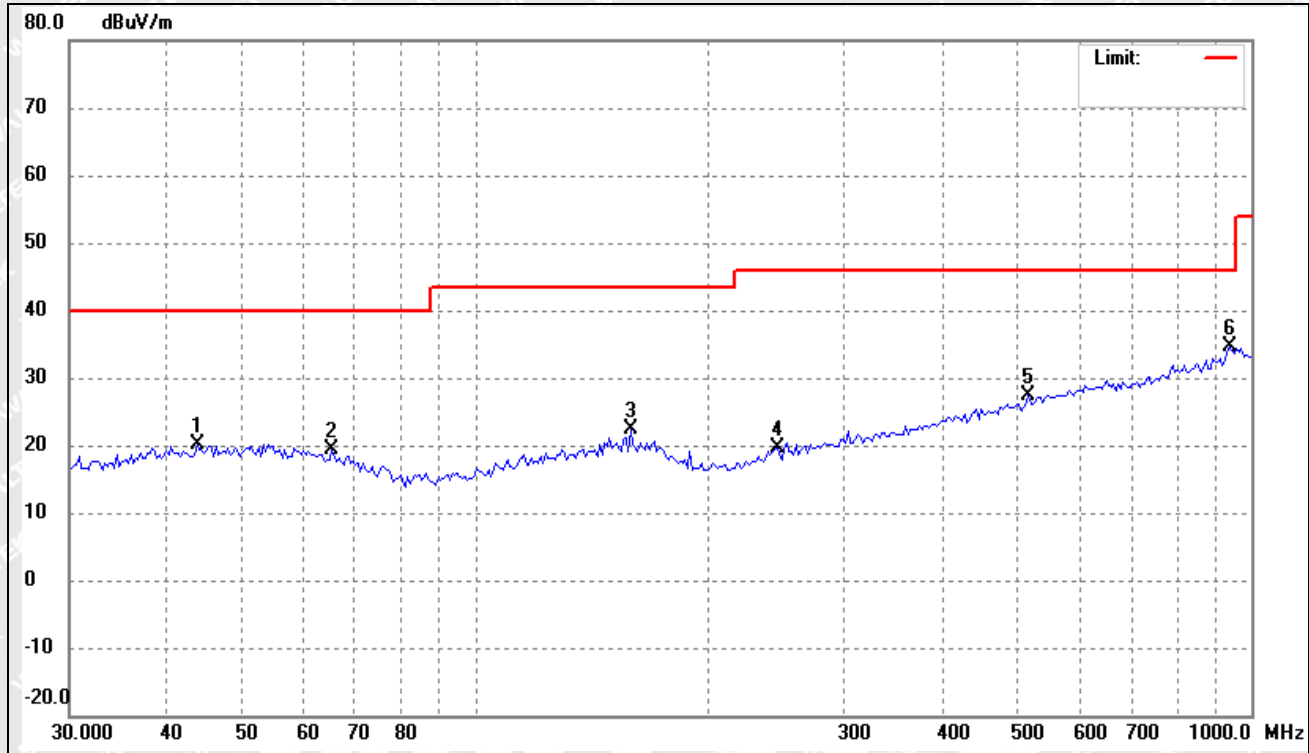
802.11n\_HT20

Test Channel

High

Polarity:

Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 43.8451            | 28.57               | -8.48           | 20.09              | 40.00             | -19.91         | -             | -              | peak   |
| 2   | 65.4452            | 29.26               | -9.93           | 19.33              | 40.00             | -20.67         | -             | -              | peak   |
| 3   | 158.6398           | 30.94               | -8.61           | 22.33              | 43.50             | -21.17         | -             | -              | peak   |
| 4   | 245.2605           | 29.96               | -10.36          | 19.60              | 46.00             | -26.40         | -             | -              | peak   |
| 5   | 516.5650           | 31.12               | -3.65           | 27.47              | 46.00             | -18.53         | -             | -              | peak   |
| 6   | 938.7139           | 32.70               | 2.01            | 34.71              | 46.00             | -11.29         | -             | -              | peak   |



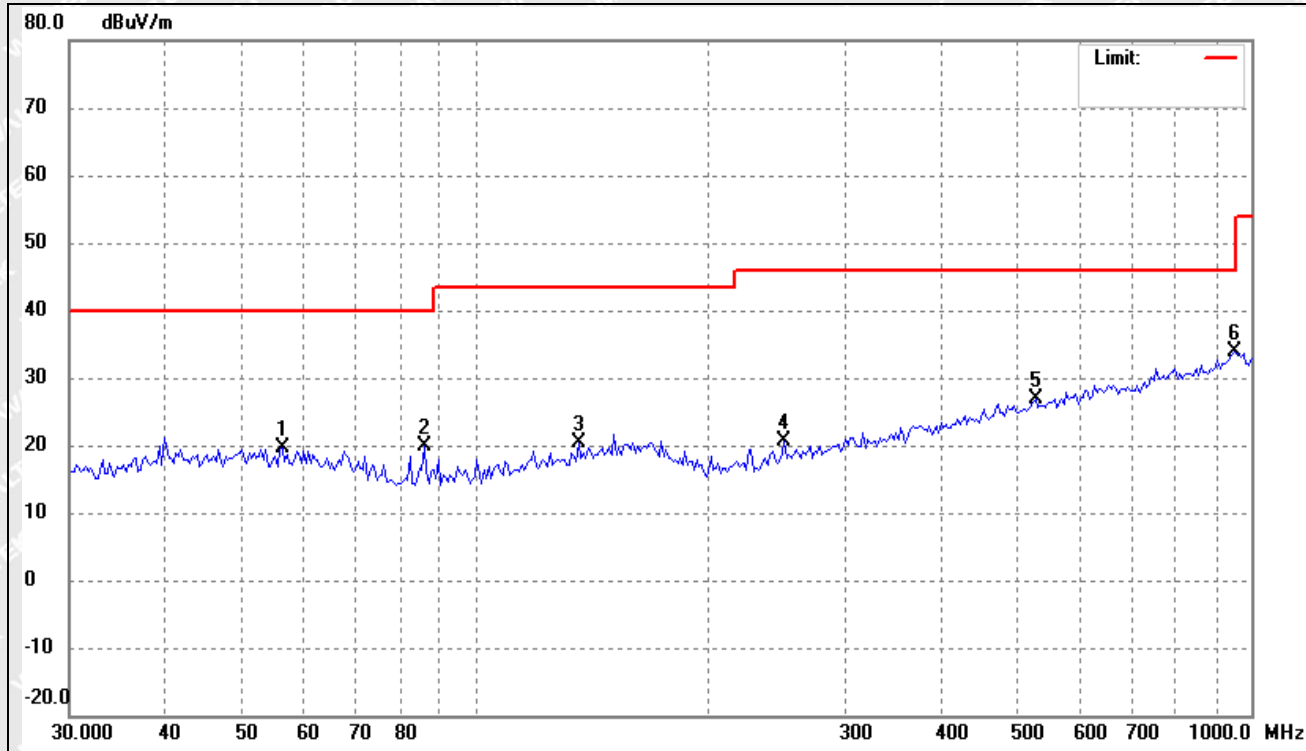
802.11n\_HT20

Test Channel

High

Polarity:

Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Degree<br>(°) | Height<br>(cm) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|---------------|----------------|--------|
| 1   | 56.4662            | 28.39               | -8.72           | 19.67              | 40.00             | -20.33         | -             | -              | peak   |
| 2   | 86.0796            | 32.81               | -13.04          | 19.77              | 40.00             | -20.23         | -             | -              | peak   |
| 3   | 135.9163           | 29.87               | -9.61           | 20.26              | 43.50             | -23.24         | -             | -              | peak   |
| 4   | 250.4859           | 30.79               | -10.18          | 20.61              | 46.00             | -25.39         | -             | -              | peak   |
| 5   | 527.5707           | 30.38               | -3.45           | 26.93              | 46.00             | -19.07         | -             | -              | peak   |
| 6   | 952.0001           | 31.56               | 2.25            | 33.81              | 46.00             | -12.19         | -             | -              | peak   |

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.



Reference No.: WTX23X10217249W003

- Spurious Emissions Above 1GHz
- Test Mode: 802.11b

| Frequency              | Result   | Limit    | Margin | Polar | Detector |
|------------------------|----------|----------|--------|-------|----------|
| (MHz)                  | (dBuV/m) | (dBuV/m) | (dB)   | H/V   |          |
| Low Channel-2412MHz    |          |          |        |       |          |
| 1314.133               | 46.03    | 74.00    | 27.97  | H     | PK       |
| 2383.467               | 56.11    | 74.00    | 17.89  | H     | PK       |
| 2383.467               | 41.73    | 54.00    | 12.27  | H     | AVG      |
| 1188.800               | 46.05    | 74.00    | 27.95  | V     | PK       |
| 2492.267               | 47.17    | 74.00    | 26.83  | V     | PK       |
| Middle Channel-2437MHz |          |          |        |       |          |
| 1349.867               | 47.09    | 74.00    | 26.91  | H     | PK       |
| 2409.600               | 47.63    | 74.00    | 26.37  | H     | PK       |
| 1617.600               | 46.96    | 74.00    | 27.04  | V     | PK       |
| 2452.800               | 48.29    | 74.00    | 25.71  | V     | PK       |
| High Channel-2462MHz   |          |          |        |       |          |
| 1897.600               | 47.42    | 74.00    | 26.58  | H     | PK       |
| 2463.467               | 48.96    | 74.00    | 25.04  | H     | PK       |
| 1391.467               | 47.06    | 74.00    | 26.94  | V     | PK       |
| 2465.600               | 48.68    | 74.00    | 25.32  | V     | PK       |

- Test Mode: 802.11g

| Frequency              | Result   | Limit    | Margin | Polar | Detector |
|------------------------|----------|----------|--------|-------|----------|
| (MHz)                  | (dBuV/m) | (dBuV/m) | (dB)   | H/V   |          |
| Low Channel-2412MHz    |          |          |        |       |          |
| 1706.133               | 47.52    | 74.00    | 26.48  | H     | PK       |
| 2378.667               | 50.76    | 74.00    | 23.24  | H     | PK       |
| 1349.867               | 46.87    | 74.00    | 27.13  | V     | PK       |
| 2381.867               | 48.59    | 74.00    | 25.41  | V     | PK       |
| Middle Channel-2437MHz |          |          |        |       |          |
| 1333.333               | 46.06    | 74.00    | 27.94  | H     | PK       |
| 2402.133               | 47.17    | 74.00    | 26.83  | H     | PK       |
| 2406.933               | 47.19    | 74.00    | 26.81  | V     | PK       |
| 2821.760               | 45.93    | 74.00    | 28.07  | V     | PK       |
| High Channel-2462MHz   |          |          |        |       |          |
| 1329.600               | 47.09    | 74.00    | 26.91  | H     | PK       |
| 2461.867               | 49.54    | 74.00    | 24.46  | H     | PK       |
| 1080.000               | 46.45    | 74.00    | 27.55  | V     | PK       |
| 2464.533               | 52.40    | 74.00    | 21.6   | V     | PK       |



➤ Test Mode: 802.11n-HT20

| Frequency              | Result   | Limit    | Margin | Polar | Detector |
|------------------------|----------|----------|--------|-------|----------|
| (MHz)                  | (dBuV/m) | (dBuV/m) | (dB)   | H/V   |          |
| Low Channel-2412MHz    |          |          |        |       |          |
| 1314.133               | 46.03    | 74.00    | 27.97  | H     | PK       |
| 2383.467               | 56.11    | 74.00    | 17.89  | H     | PK       |
| 2383.467               | 41.73    | 54.00    | 12.27  | H     | AVG      |
| 1188.800               | 46.05    | 74.00    | 27.95  | V     | PK       |
| 2492.267               | 47.17    | 74.00    | 26.83  | V     | PK       |
| Middle Channel-2437MHz |          |          |        |       |          |
| 1349.867               | 47.09    | 74.00    | 26.91  | H     | PK       |
| 2409.600               | 47.63    | 74.00    | 26.37  | H     | PK       |
| 1617.600               | 46.96    | 74.00    | 27.04  | V     | PK       |
| 2452.800               | 48.29    | 74.00    | 25.71  | V     | PK       |
| High Channel-2462MHz   |          |          |        |       |          |
| 1897.600               | 47.42    | 74.00    | 26.58  | H     | PK       |
| 2463.467               | 48.96    | 74.00    | 25.04  | H     | PK       |
| 1391.467               | 47.06    | 74.00    | 26.94  | V     | PK       |
| 2465.600               | 48.68    | 74.00    | 25.32  | V     | PK       |

Note: 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.



## 9. Out of Band Emissions

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### 9.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. 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).

### 9.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

#### A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission



Reference No.: WTX23X10217249W003

must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

#### B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) VBW  $\geq [3 \times \text{RBW}]$ .
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

**Table 9—RBW as a function of frequency**

| Frequency          | RBW                |
|--------------------|--------------------|
| 9 kHz to 150 kHz   | 200 Hz to 300 Hz   |
| 0.15 MHz to 30 MHz | 9 kHz to 10 kHz    |
| 30 MHz to 1000 MHz | 100 kHz to 120 kHz |
| >1000 MHz          | 1 MHz              |

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

### 9.3 Summary of Test Results/Plots

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$E [\text{dB}\mu\text{V/m}] = \text{UR} + \text{AT} + \text{AFactor} [\text{dB}]; \text{AT} = \text{LCable loss} [\text{dB}] - \text{Gpreamp} [\text{dB}]$

AT: Total correction Factor except Antenna

UR: Receiver Reading

Gpreamp: Preamplifier Gain

AFactor: Antenna Factor at 3m

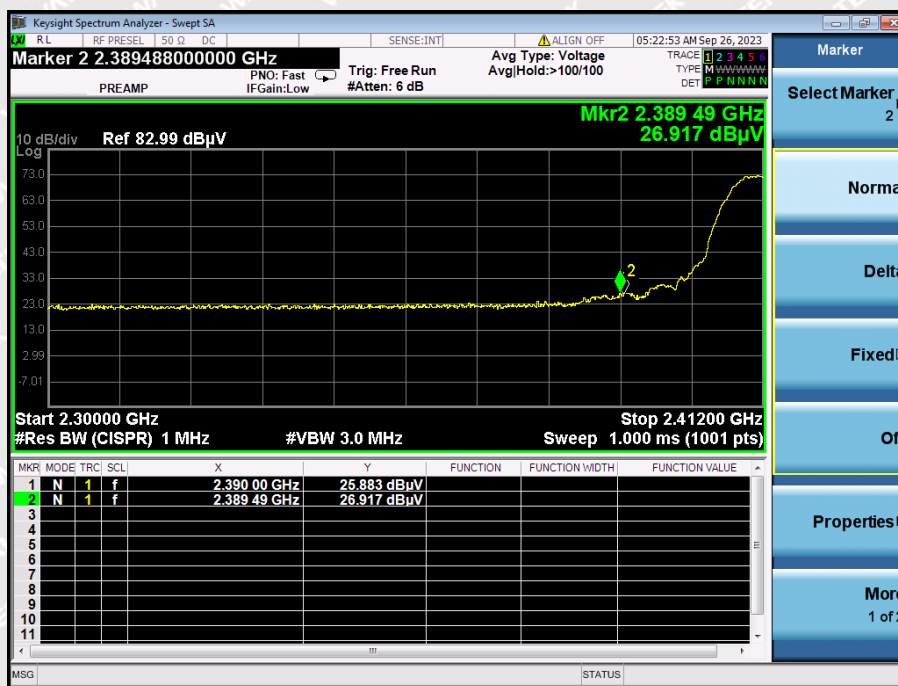
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.



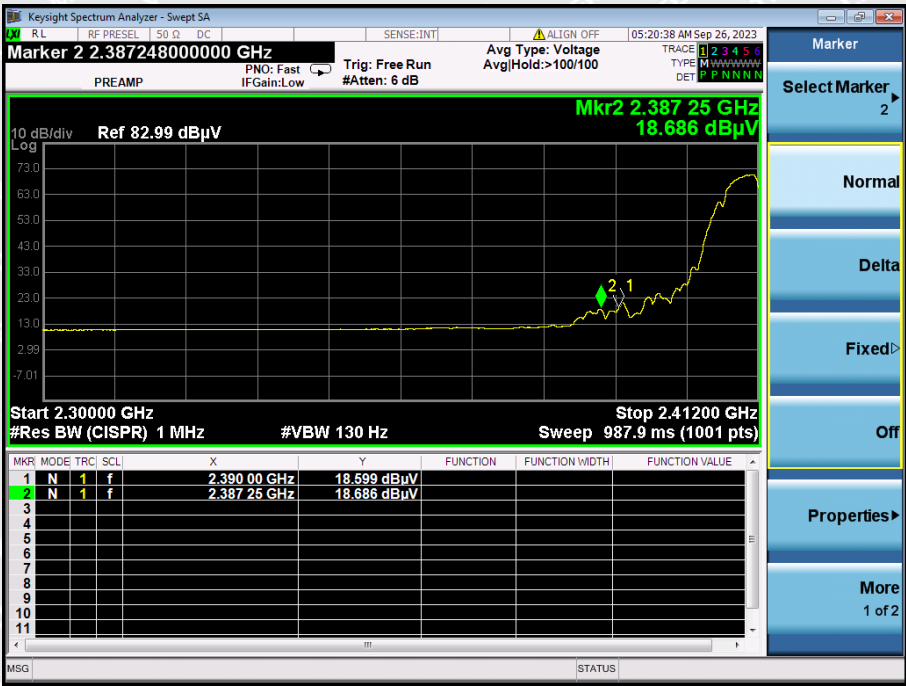
Reference No.: WTX23X10217249W003

- Radiated test
- Test Mode: 802.11b

| Channel | Frequency (MHz) | Detector | Receiver Reading UR (dBμV) | AT (dB) | AFactor (dB@3m) | Max. Emission E (dBμV/m) | Limit (dBμV/m) | Verdict |
|---------|-----------------|----------|----------------------------|---------|-----------------|--------------------------|----------------|---------|
|         |                 | PK/ AV   |                            |         |                 |                          |                |         |
| 1       | 2389.49         | PK       | 26.92                      | 6.74    | 27.20           | 60.86                    | 74             | PASS    |
| 1       | 2387.25         | AV       | 18.69                      | 6.74    | 27.20           | 52.63                    | 54             | PASS    |
| 11      | 2483.93         | PK       | 27.39                      | 6.74    | 27.20           | 61.33                    | 74             | PASS    |
| 11      | 2487.84         | AV       | 18.70                      | 6.74    | 27.20           | 52.64                    | 54             | PASS    |



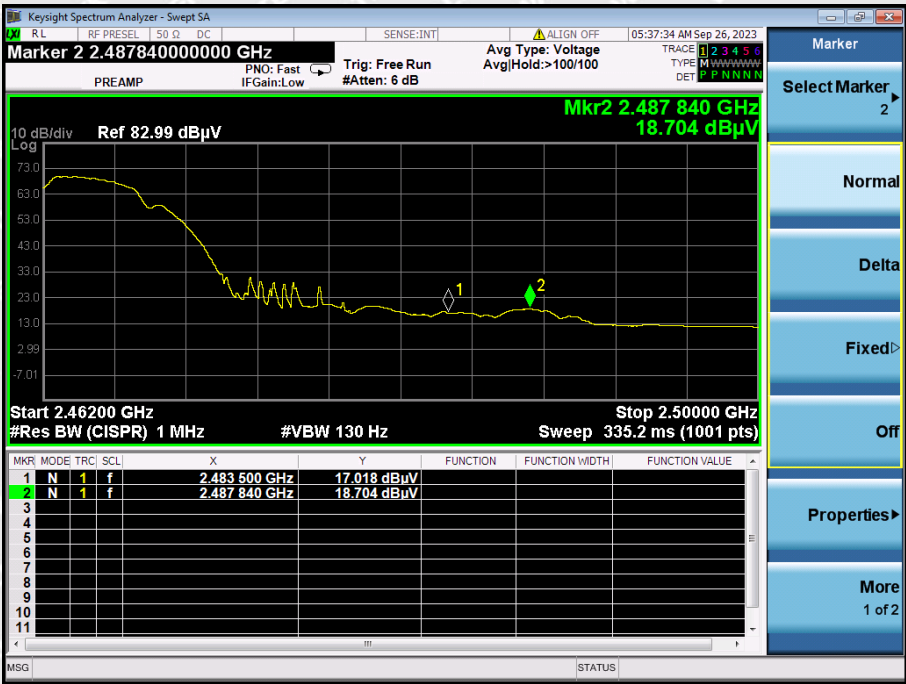
(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 11, 802.11b)



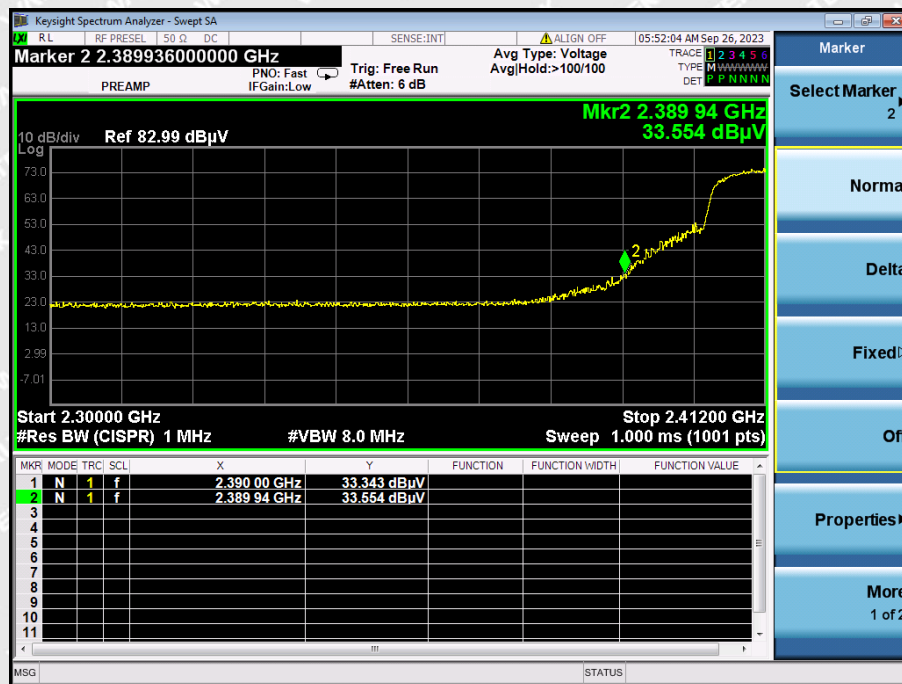
(AVERAGE, Channel 11, 802.11b)

WALTEK



➤ Test Mode: 802.11g

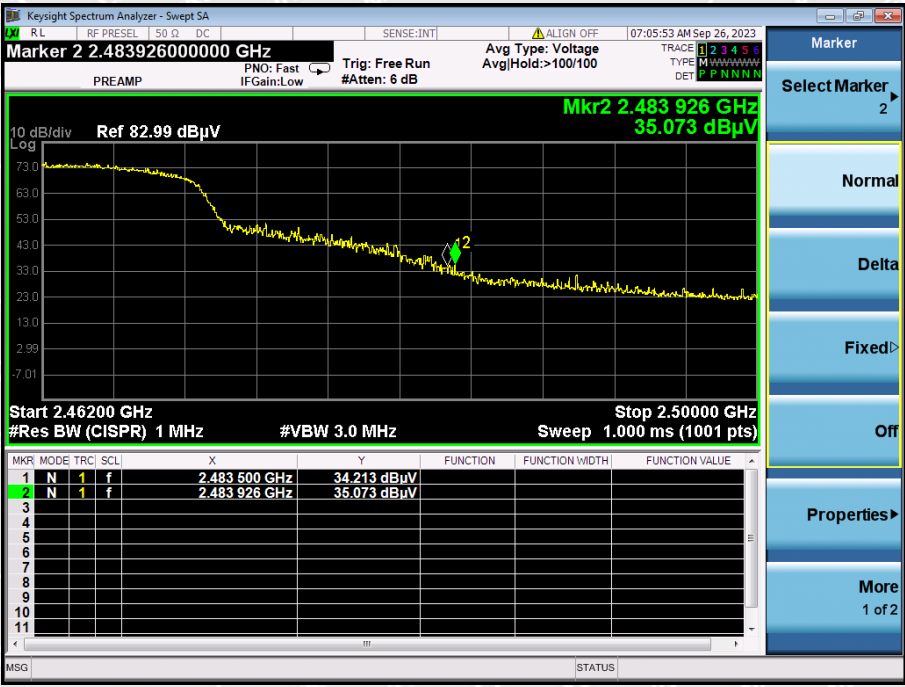
| Channel | Frequency (MHz) | Detector | Receiver Reading UR (dBμV) | AT (dB) | AFactor (dB@3m) | Max. Emission E (dBμV/m) | Limit (dBμV/m) | Verdict |
|---------|-----------------|----------|----------------------------|---------|-----------------|--------------------------|----------------|---------|
|         |                 | PK/ AV   |                            |         |                 |                          |                |         |
| 1       | 2389.94         | PK       | 33.55                      | 6.74    | 27.20           | 67.49                    | 74             | PASS    |
| 1       | 2390.00         | AV       | 18.66                      | 6.74    | 27.20           | 52.60                    | 54             | PASS    |
| 11      | 2483.93         | PK       | 35.07                      | 6.74    | 27.20           | 69.01                    | 74             | PASS    |
| 11      | 2483.50         | AV       | 19.05                      | 6.74    | 27.20           | 52.99                    | 54             | PASS    |



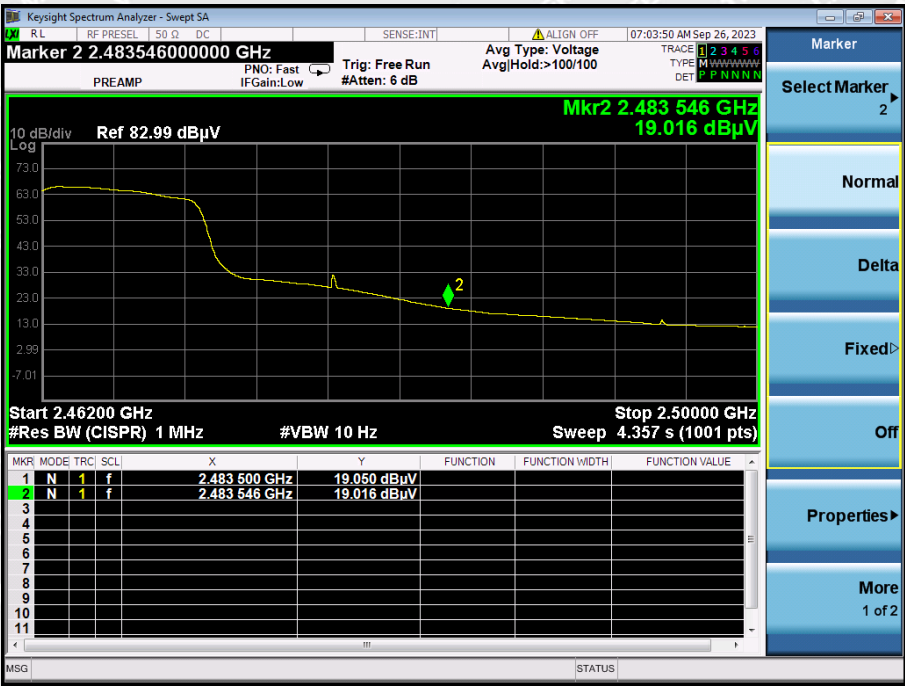
(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 11, 802.11g)



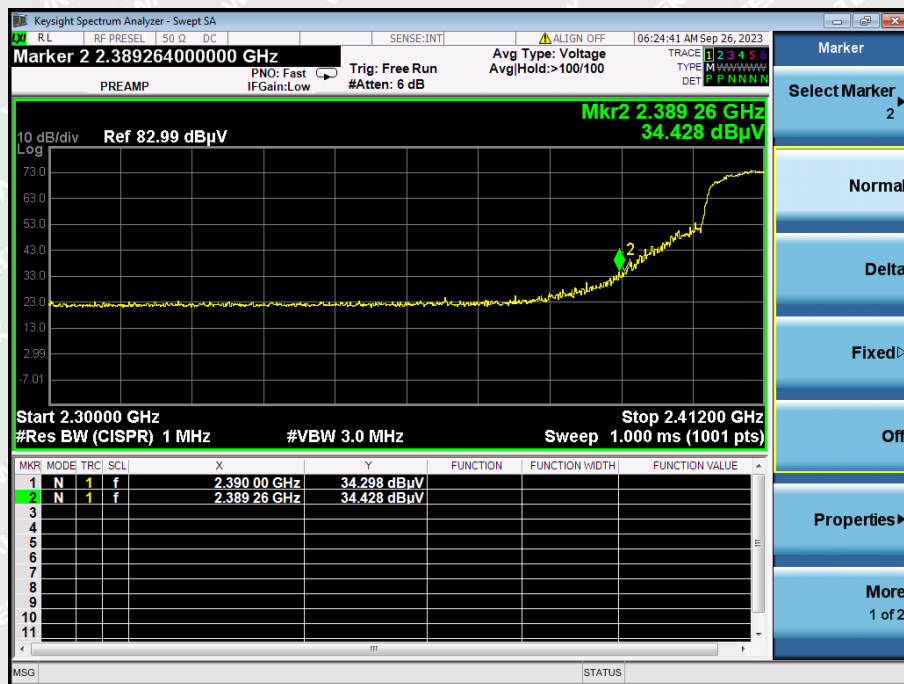
(AVERAGE, Channel 11, 802.11g)

WALTEK

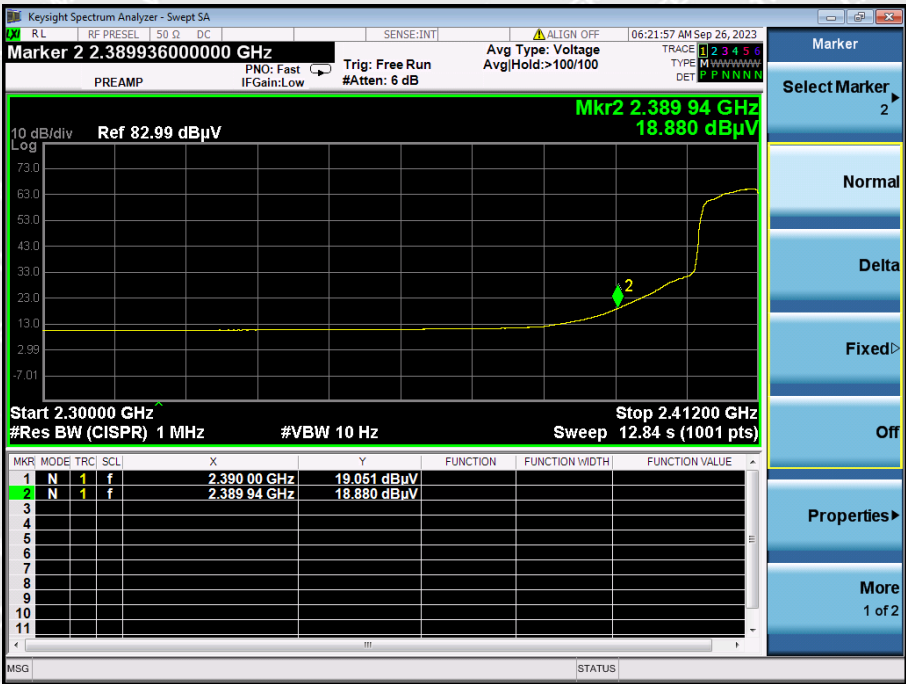


➤ Test Mode: 802.11n-HT20

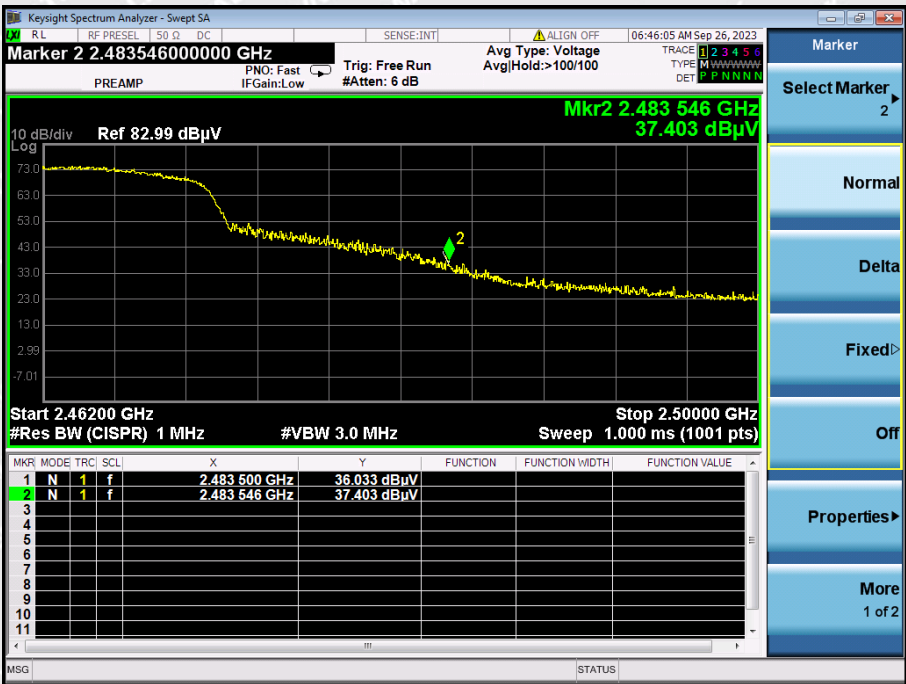
| Channel | Frequency (MHz) | Detector | Receiver Reading UR (dBμV) | AT (dB) | AFactor (dB@3m) | Max. Emission E (dBμV/m) | Limit (dBμV/m) | Verdict |
|---------|-----------------|----------|----------------------------|---------|-----------------|--------------------------|----------------|---------|
|         |                 | PK/ AV   |                            |         |                 |                          |                |         |
| 1       | 2389.26         | PK       | 34.43                      | 6.74    | 27.20           | 68.37                    | 74             | PASS    |
| 1       | 2390.00         | AV       | 19.05                      | 6.74    | 27.20           | 52.99                    | 54             | PASS    |
| 11      | 2483.55         | PK       | 37.40                      | 6.74    | 27.20           | 71.34                    | 74             | PASS    |
| 11      | 2483.55         | AV       | 19.06                      | 6.74    | 27.20           | 53.00                    | 54             | PASS    |



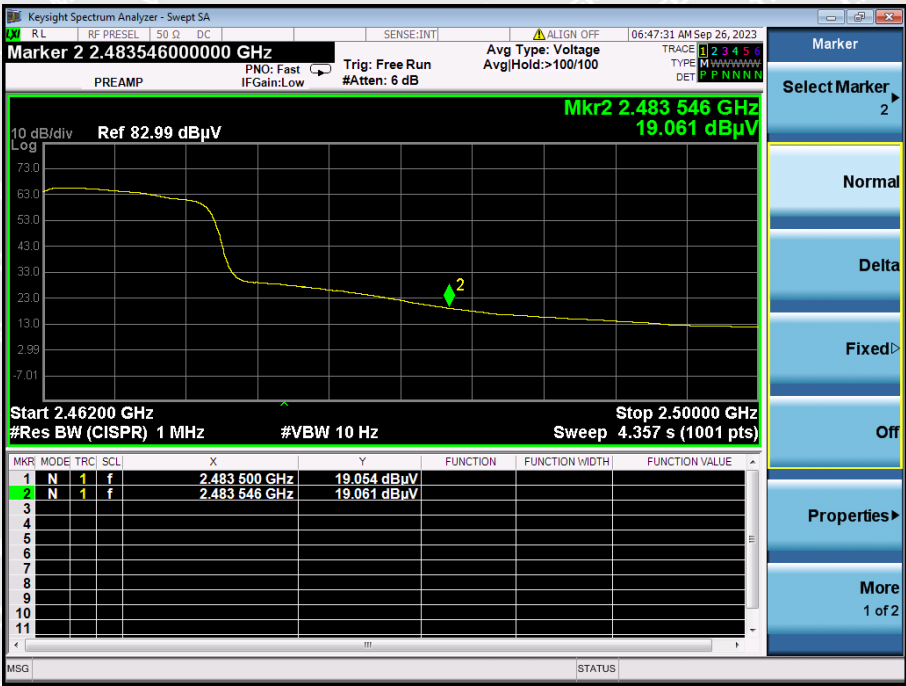
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 11, 802.11n (HT20))



(AVERAGE, Channel 11, 802.11n (HT20))

➤ Conducted test  
Please refer to Appendix E





## 10. Conducted Emissions

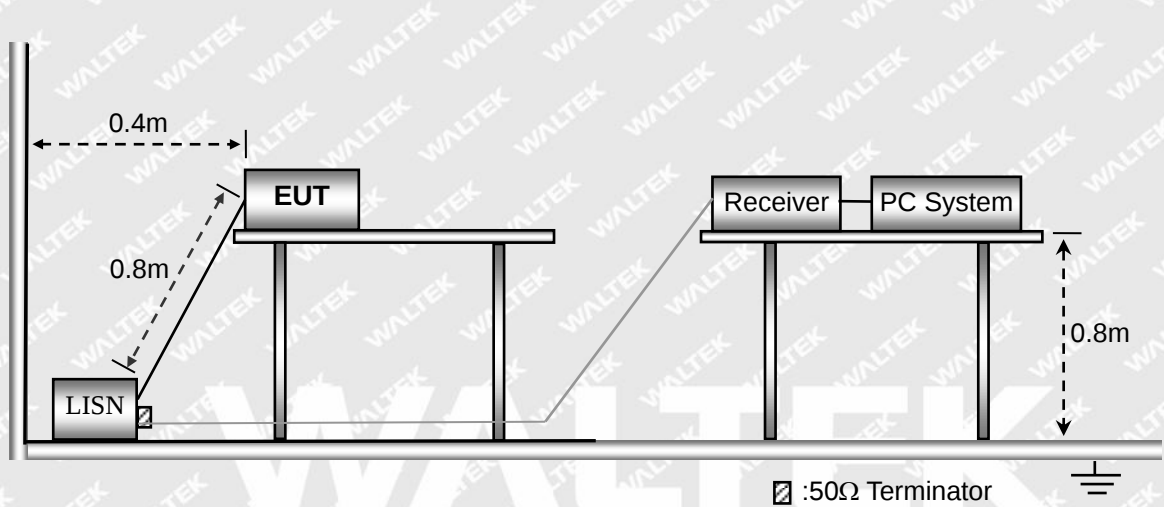
### 10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

### 10.2 Basic Test Setup Block Diagram



### 10.3 Test Receiver Setup

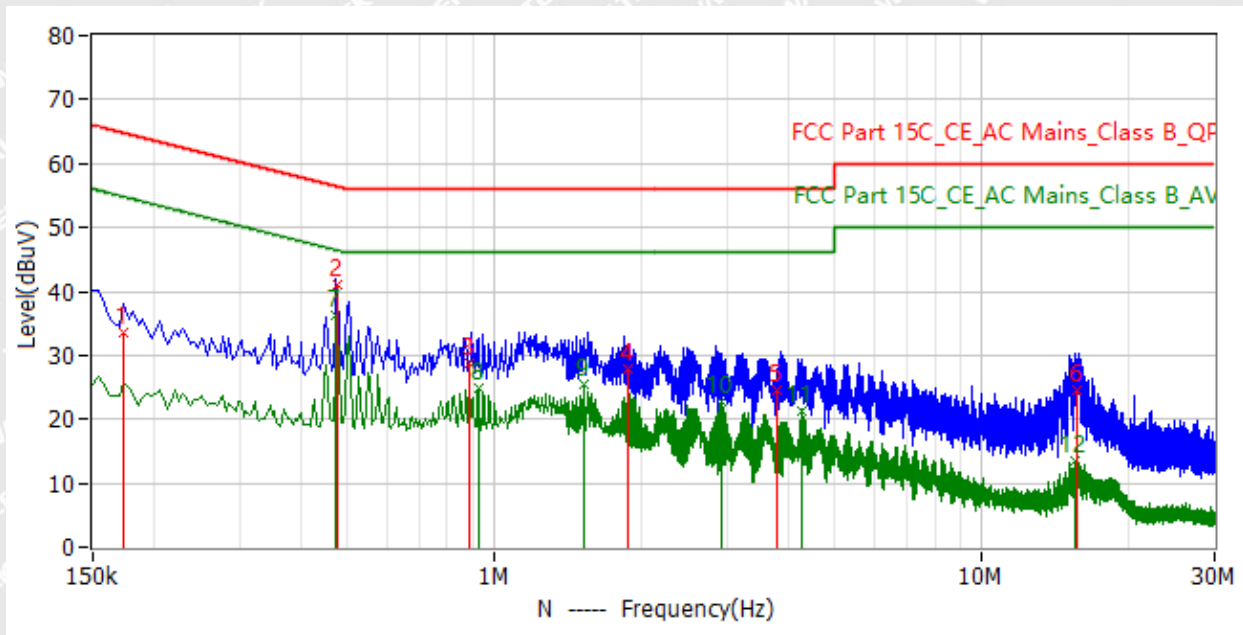
During the conducted emission test, the test receiver was set with the following configurations:

|                                    |        |
|------------------------------------|--------|
| Start Frequency .....              | 150kHz |
| Stop Frequency .....               | 30MHz  |
| Sweep Speed .....                  | Auto   |
| IF Bandwidth.....                  | 10kHz  |
| Quasi-Peak Adapter Bandwidth ..... | 9kHz   |
| Quasi-Peak Adapter Mode .....      | Normal |

### 10.4 Summary of Test Results/Plots



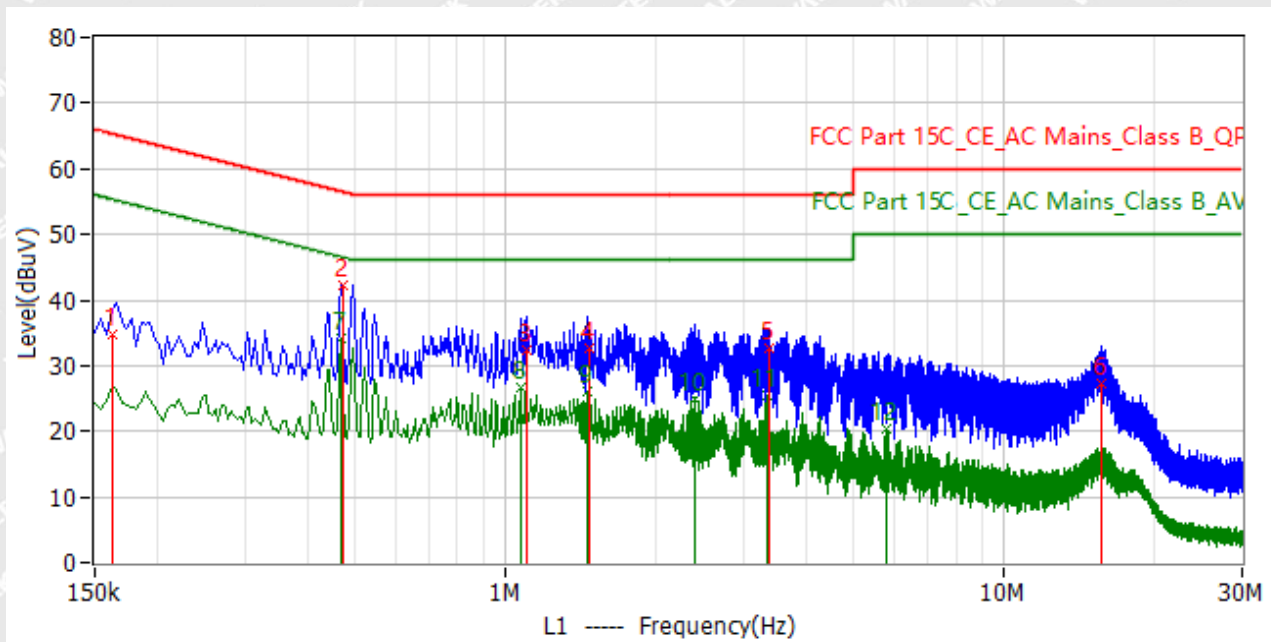
|           |               |             |           |         |
|-----------|---------------|-------------|-----------|---------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Neutral |
|-----------|---------------|-------------|-----------|---------|



| No. | Frequency  | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector |
|-----|------------|------------|------------|----------|--------------|-----------|----------|
| 1   | 174.000kHz | 64.8       | 33.6       | -31.2    | 23.9         | 9.7       | QP       |
| 2   | 478.000kHz | 56.4       | 41.0       | -15.4    | 31.3         | 9.7       | QP       |
| 3   | 886.000kHz | 56.0       | 28.8       | -27.2    | 19.1         | 9.7       | QP       |
| 4   | 1.870MHz   | 56.0       | 27.9       | -28.1    | 18.2         | 9.7       | QP       |
| 5   | 3.814MHz   | 56.0       | 24.6       | -31.4    | 14.8         | 9.8       | QP       |
| 6   | 15.682MHz  | 60.0       | 24.7       | -35.3    | 15.0         | 9.7       | QP       |
| 7*  | 474.000kHz | 46.4       | 36.2       | -10.3    | 26.5         | 9.7       | AV       |
| 8*  | 926.000kHz | 46.0       | 25.0       | -21.0    | 15.3         | 9.7       | AV       |
| 9*  | 1.526MHz   | 46.0       | 25.4       | -20.6    | 15.7         | 9.7       | AV       |
| 10* | 2.930MHz   | 46.0       | 22.8       | -23.2    | 13.0         | 9.8       | AV       |
| 11* | 4.278MHz   | 46.0       | 21.4       | -24.6    | 11.6         | 9.8       | AV       |
| 12* | 15.534MHz  | 50.0       | 13.4       | -36.6    | 3.7          | 9.7       | AV       |



|           |               |             |           |      |
|-----------|---------------|-------------|-----------|------|
| Test Mode | Communication | AC120V 60Hz | Polarity: | Line |
|-----------|---------------|-------------|-----------|------|



| No. | Frequency  | Limit dBuV | Level dBuV | Delta dB | Reading dBuV | Factor dB | Detector |
|-----|------------|------------|------------|----------|--------------|-----------|----------|
| 1   | 162.000kHz | 65.4       | 34.8       | -30.5    | 24.9         | 9.9       | QP       |
| 2   | 470.000kHz | 56.5       | 42.2       | -14.3    | 32.4         | 9.8       | QP       |
| 3   | 1.098MHz   | 56.0       | 32.5       | -23.5    | 22.7         | 9.8       | QP       |
| 4   | 1.466MHz   | 56.0       | 32.8       | -23.2    | 23.0         | 9.8       | QP       |
| 5   | 3.374MHz   | 56.0       | 32.8       | -23.2    | 22.9         | 9.9       | QP       |
| 6   | 15.658MHz  | 60.0       | 27.2       | -32.8    | 17.4         | 9.8       | QP       |
| 7*  | 466.000kHz | 46.6       | 34.1       | -12.5    | 24.3         | 9.8       | AV       |
| 8*  | 1.070MHz   | 46.0       | 26.7       | -19.3    | 16.9         | 9.8       | AV       |
| 9*  | 1.454MHz   | 46.0       | 26.0       | -20.0    | 16.2         | 9.8       | AV       |
| 10* | 2.386MHz   | 46.0       | 25.0       | -21.0    | 15.1         | 9.9       | AV       |
| 11* | 3.346MHz   | 46.0       | 25.4       | -20.6    | 15.5         | 9.9       | AV       |
| 12* | 5.782MHz   | 50.0       | 20.5       | -29.5    | 10.7         | 9.8       | AV       |



APPENDIX SUMMARY

| APPENDIX | Description of Test Item                   | Result    |
|----------|--------------------------------------------|-----------|
| A        | Duty Cycle of Test Signal                  | Compliant |
| B        | Power Spectral Density                     | Compliant |
| C        | DTS Bandwidth                              | Compliant |
| D        | RF Output Power                            | Compliant |
| E        | Conducted Spurious Emissions and Band Edge | Compliant |

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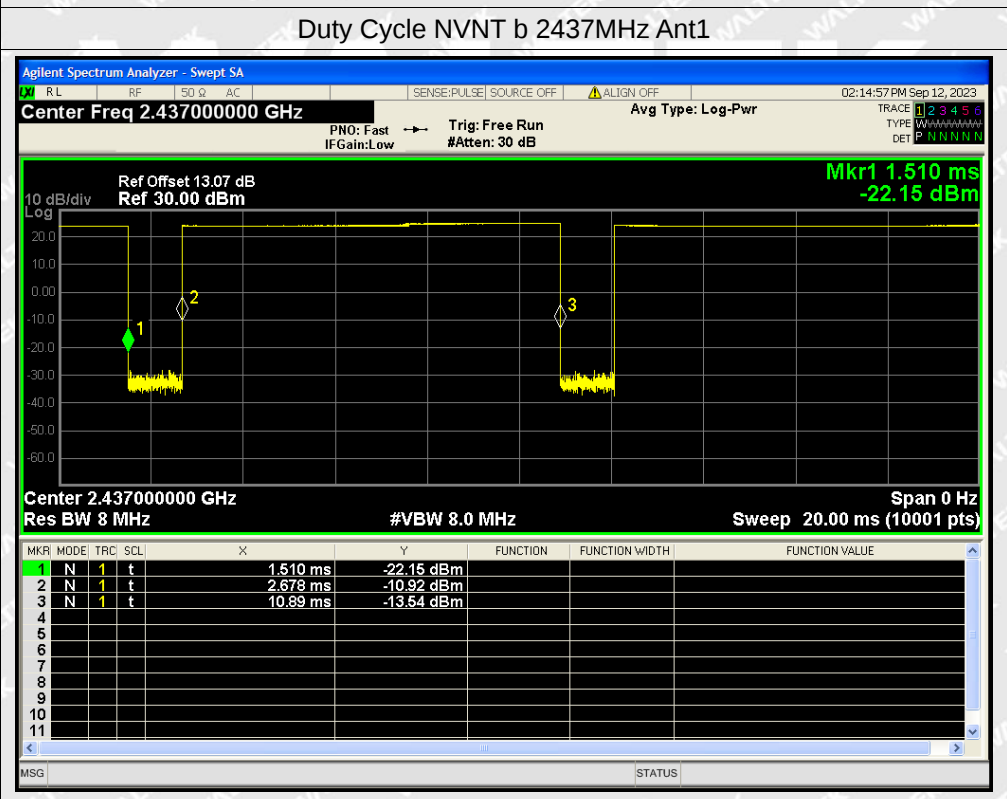
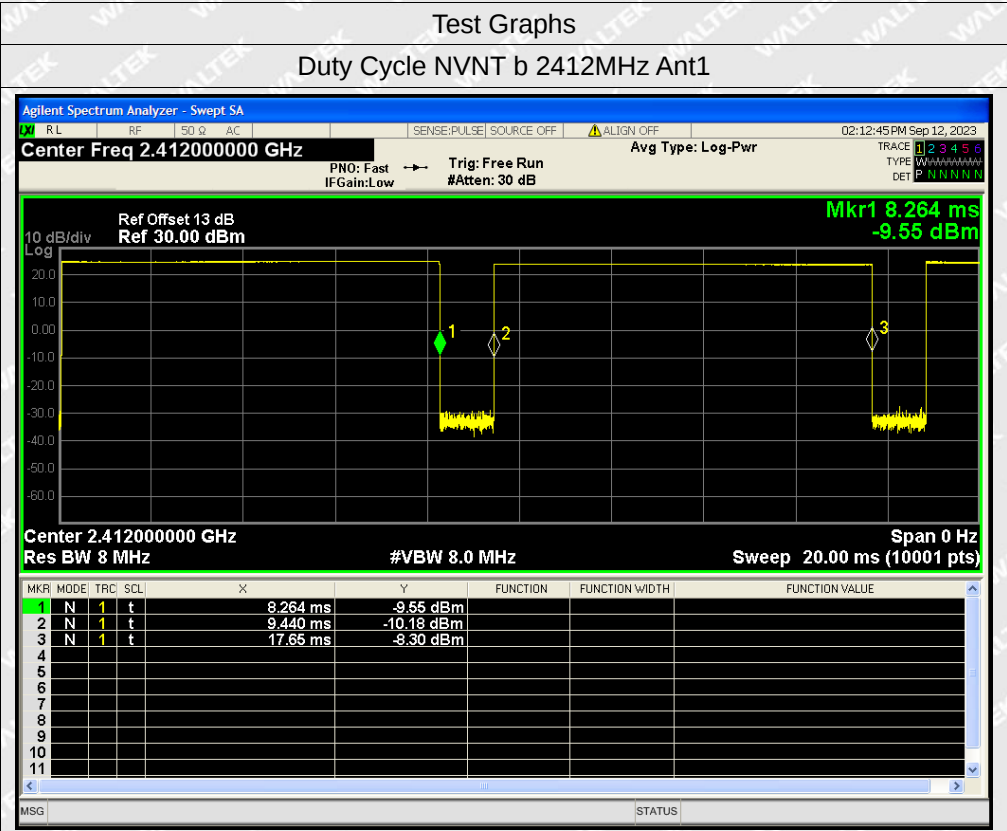


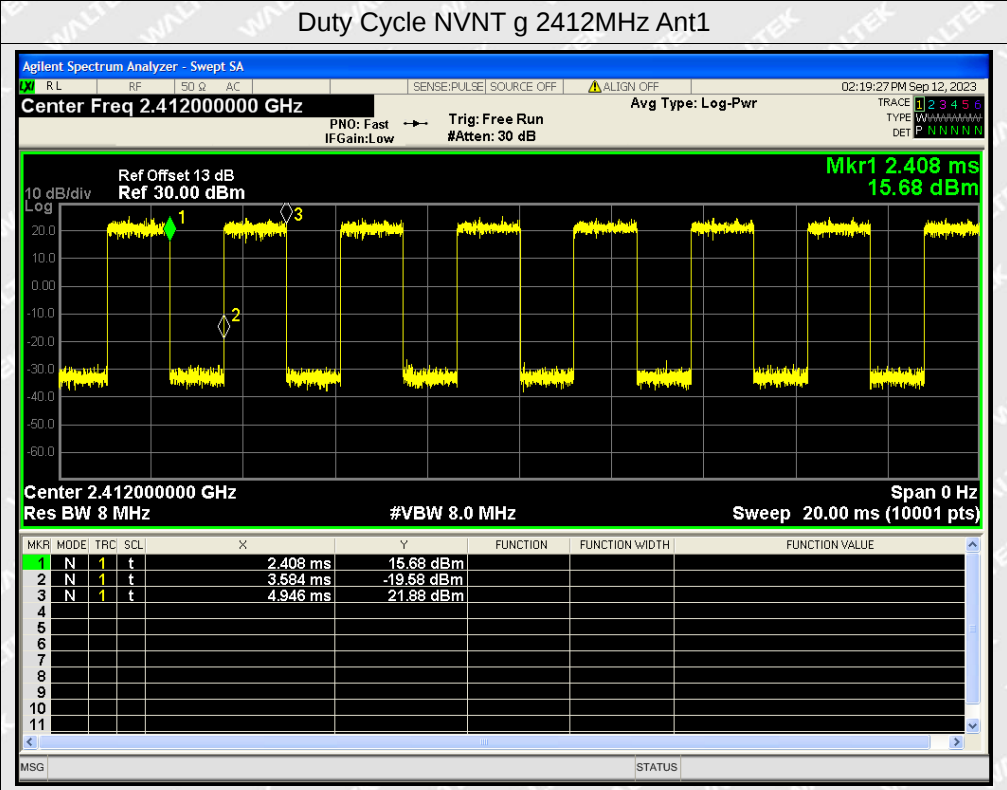
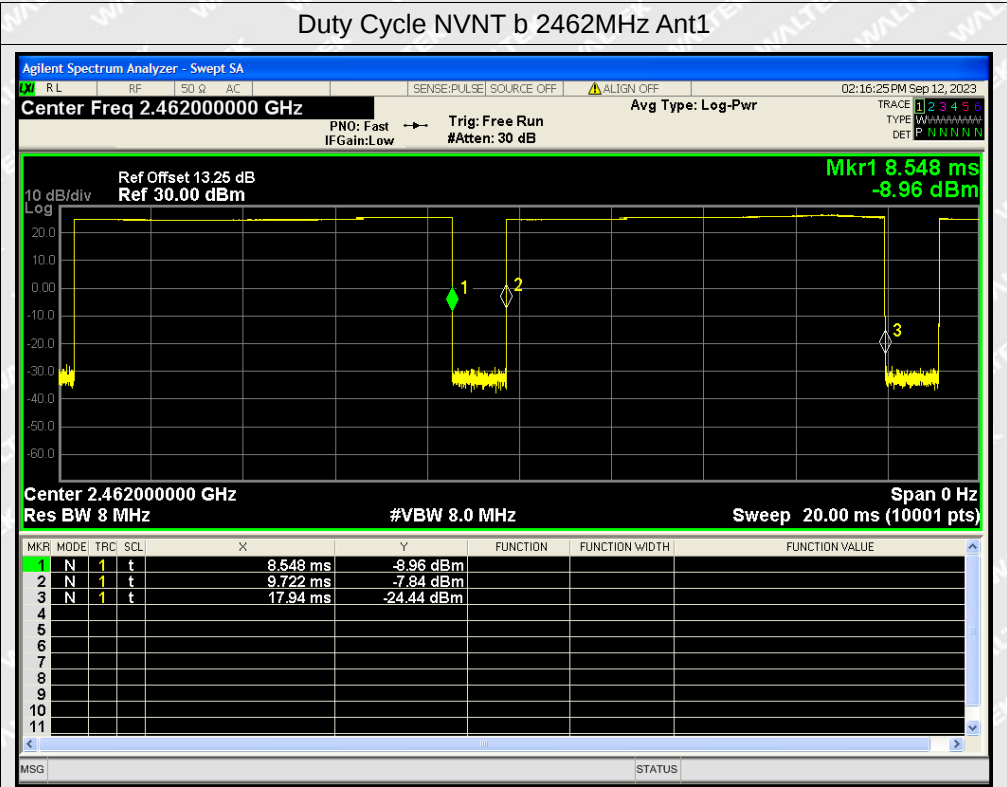
APPENDIX A

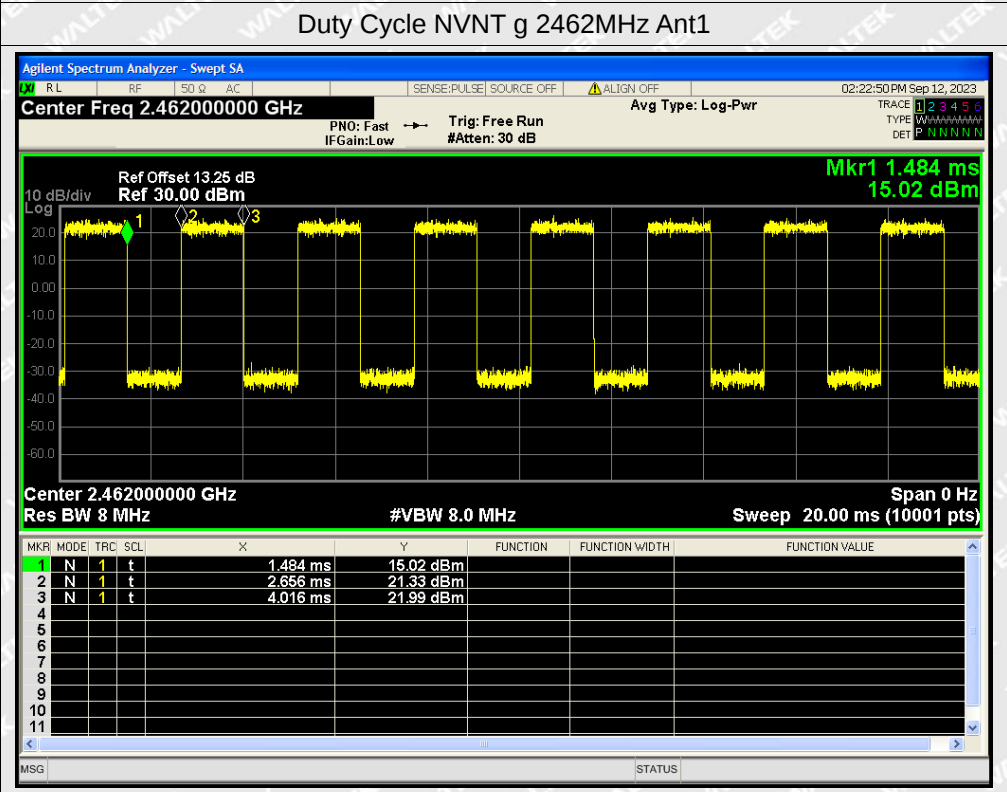
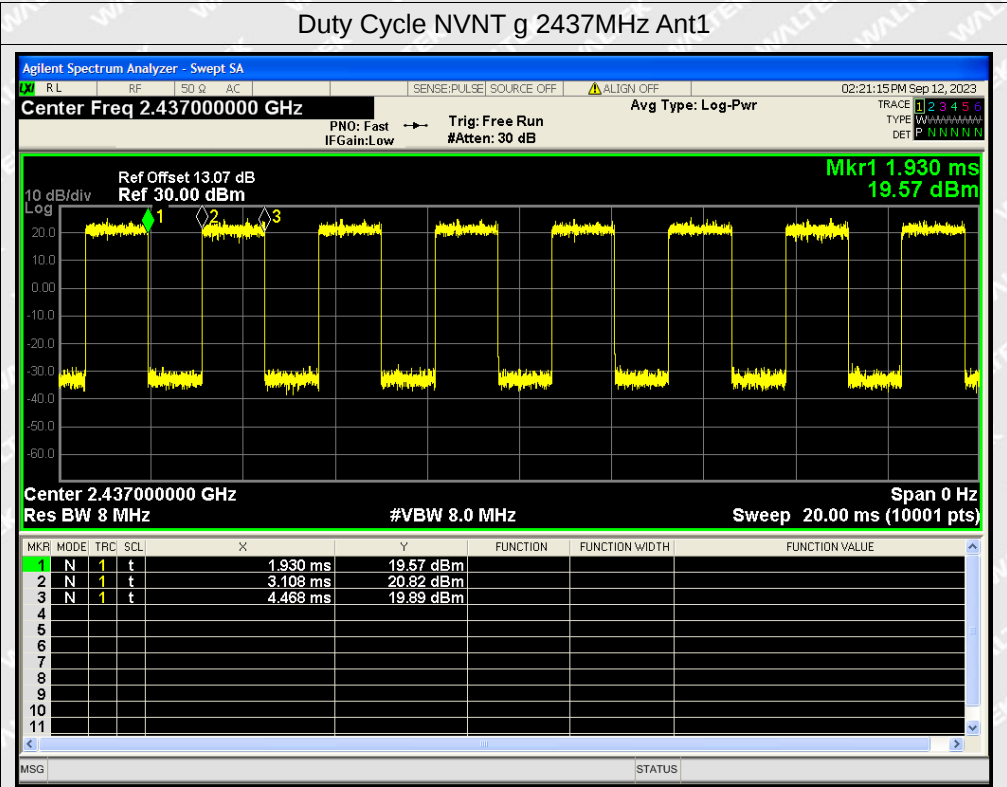
Duty Cycle

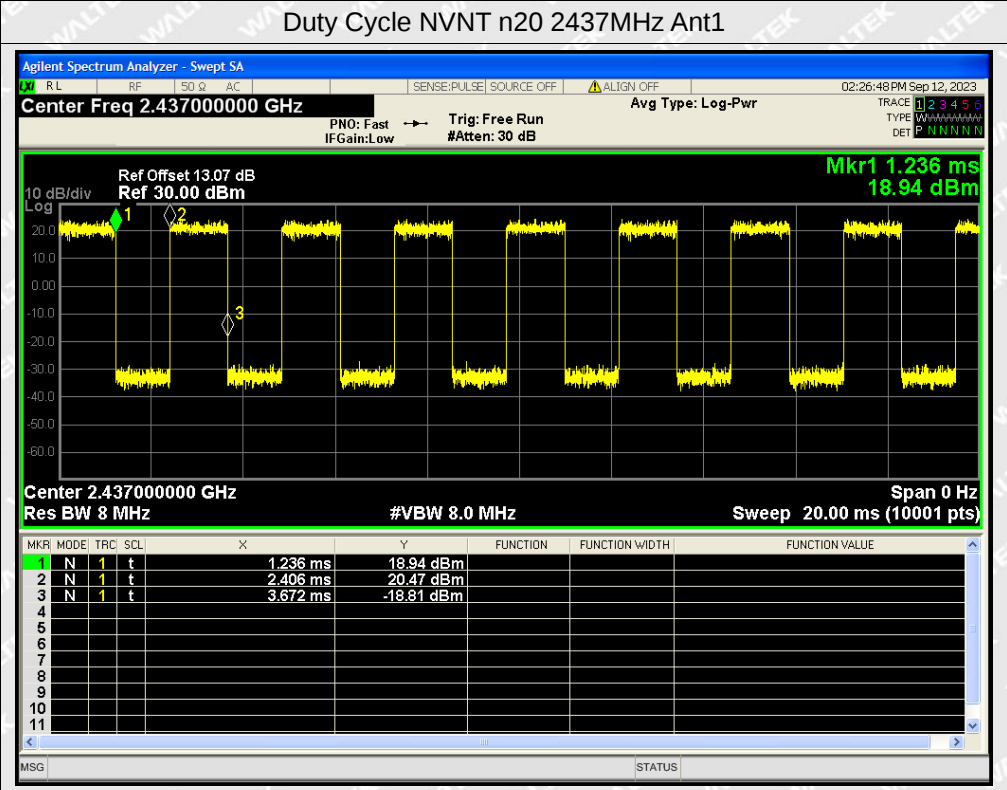
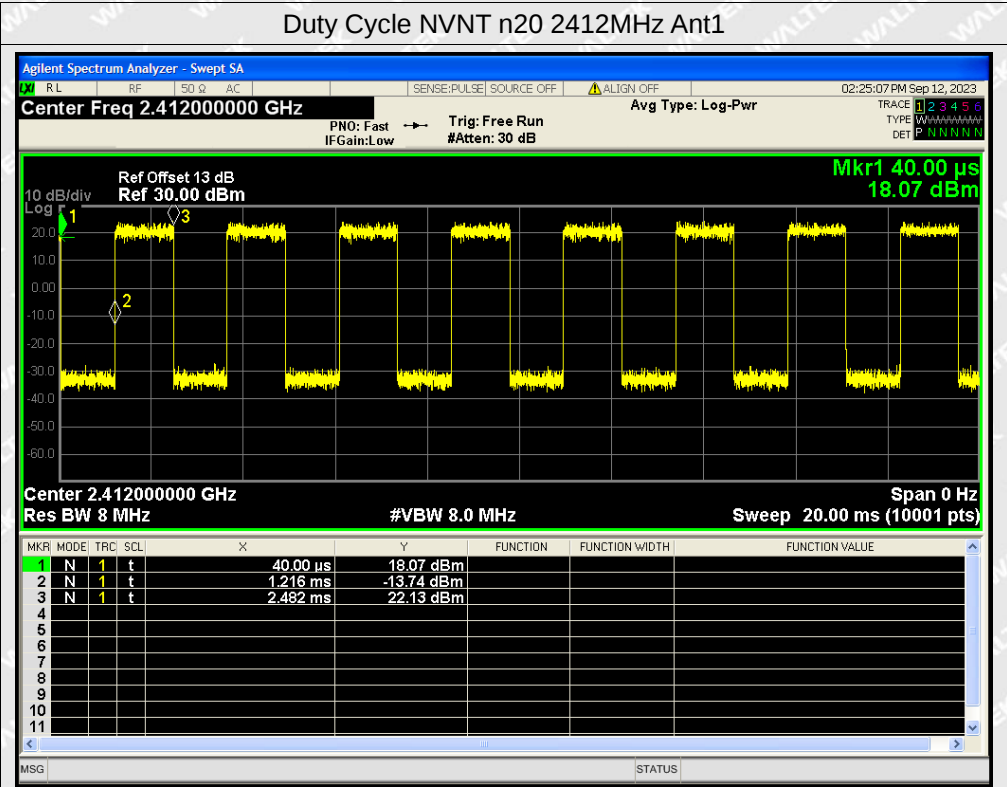
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 87.48          | 0.58                   | 0.12      |
| NVNT      | b    | 2437            | Ant1    | 87.55          | 0.58                   | 0.12      |
| NVNT      | b    | 2462            | Ant1    | 87.49          | 0.58                   | 0.12      |
| NVNT      | g    | 2412            | Ant1    | 53.66          | 2.70                   | 0.73      |
| NVNT      | g    | 2437            | Ant1    | 53.59          | 2.71                   | 0.74      |
| NVNT      | g    | 2462            | Ant1    | 53.71          | 2.70                   | 0.74      |
| NVNT      | n20  | 2412            | Ant1    | 51.84          | 2.85                   | 0.79      |
| NVNT      | n20  | 2437            | Ant1    | 51.97          | 2.84                   | 0.79      |
| NVNT      | n20  | 2462            | Ant1    | 51.93          | 2.85                   | 0.79      |

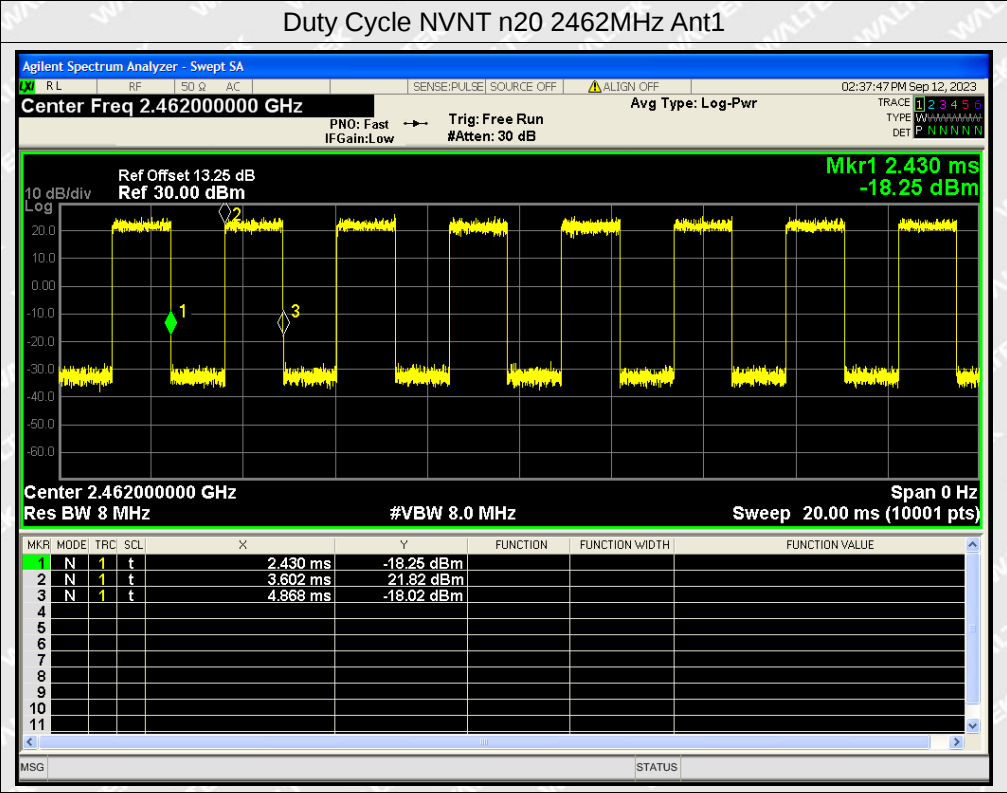
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## APPENDIX B

### Maximum Power Spectral Density Level

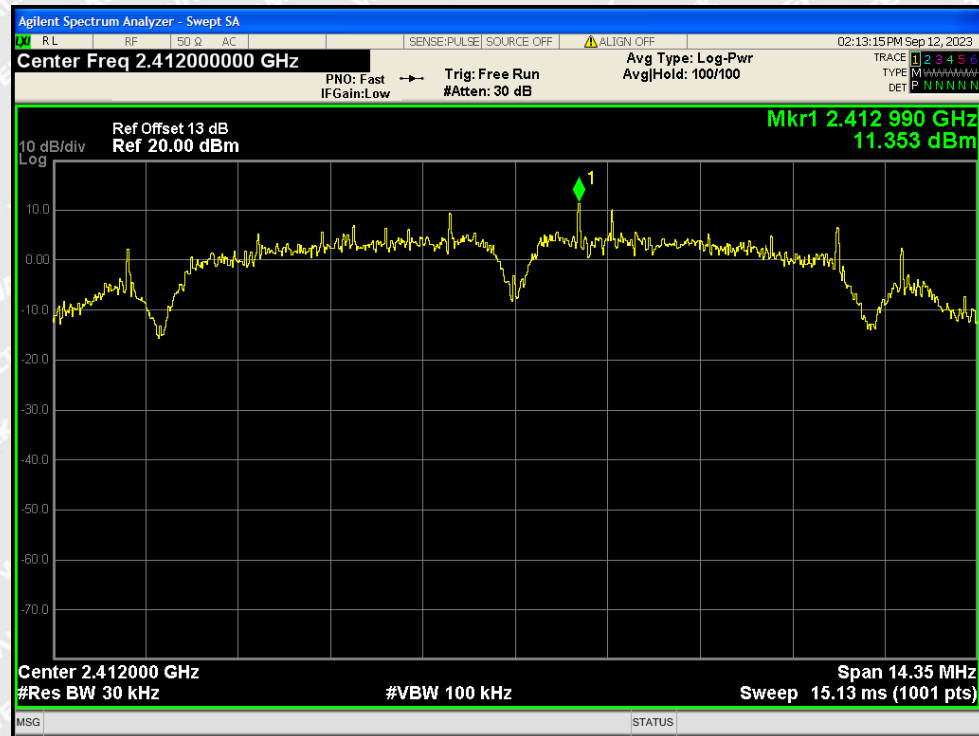
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 1.35                     | 0                | 1.35                 | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -0.26                    | 0                | -0.26                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2.41                     | 0                | 2.41                 | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -7.34                    | 0                | -7.34                | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -7.19                    | 0                | -7.19                | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -6.51                    | 0                | -6.51                | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -7.07                    | 0                | -7.07                | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -7.4                     | 0                | -7.4                 | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -6                       | 0                | -6                   | 8                | Pass    |

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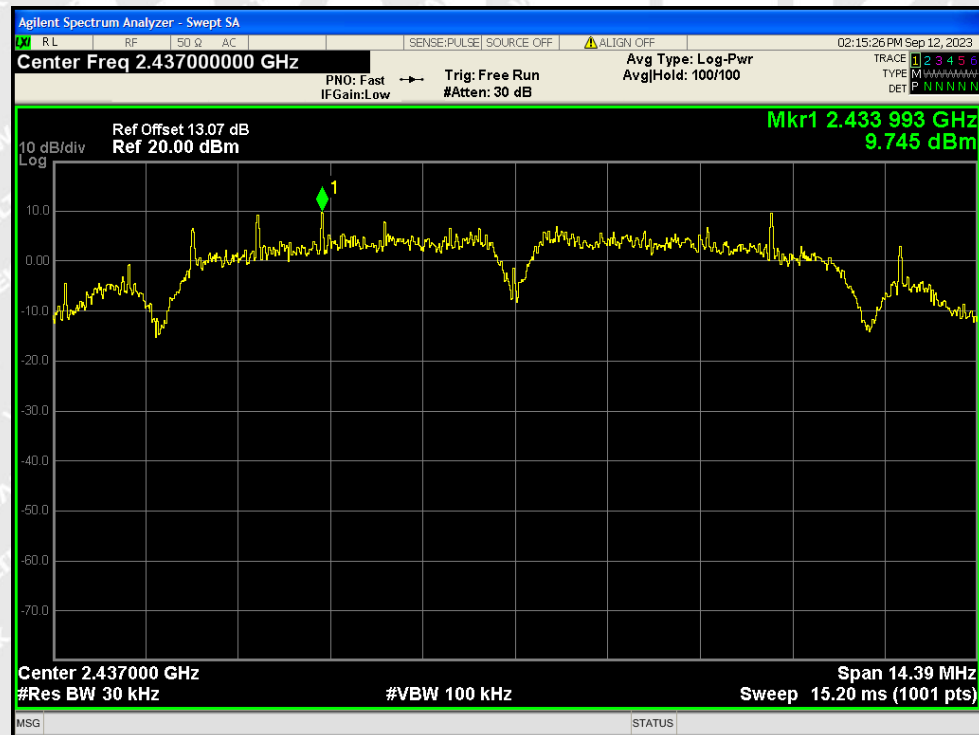


## Test Graphs

## PSD NVNT b 2412MHz Ant1

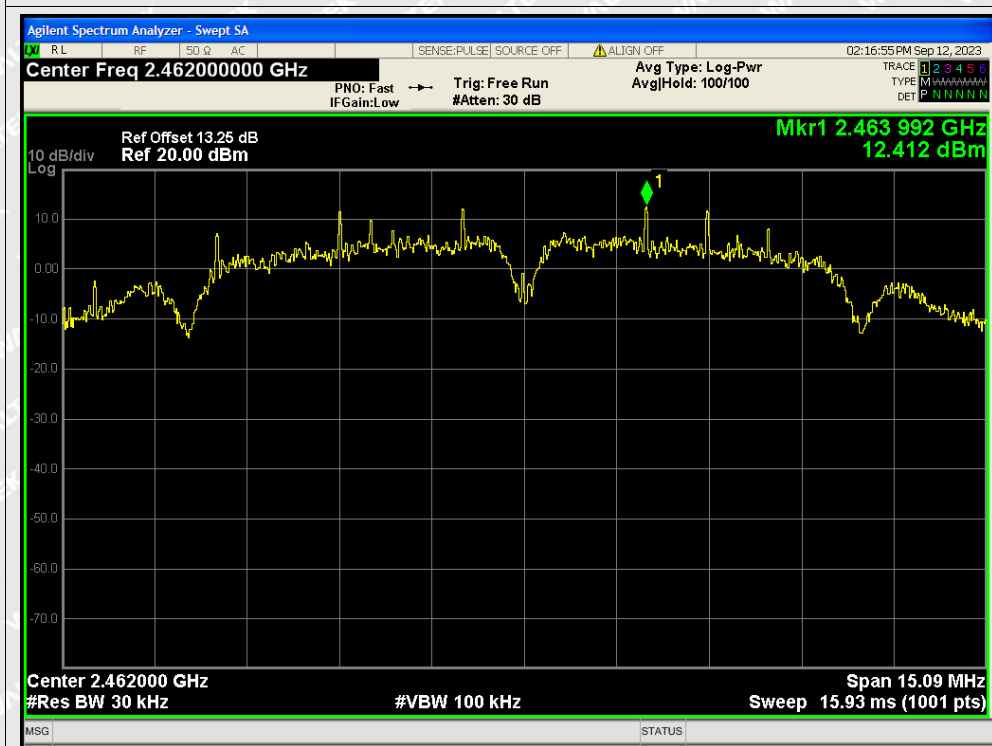


## PSD NVNT b 2437MHz Ant1

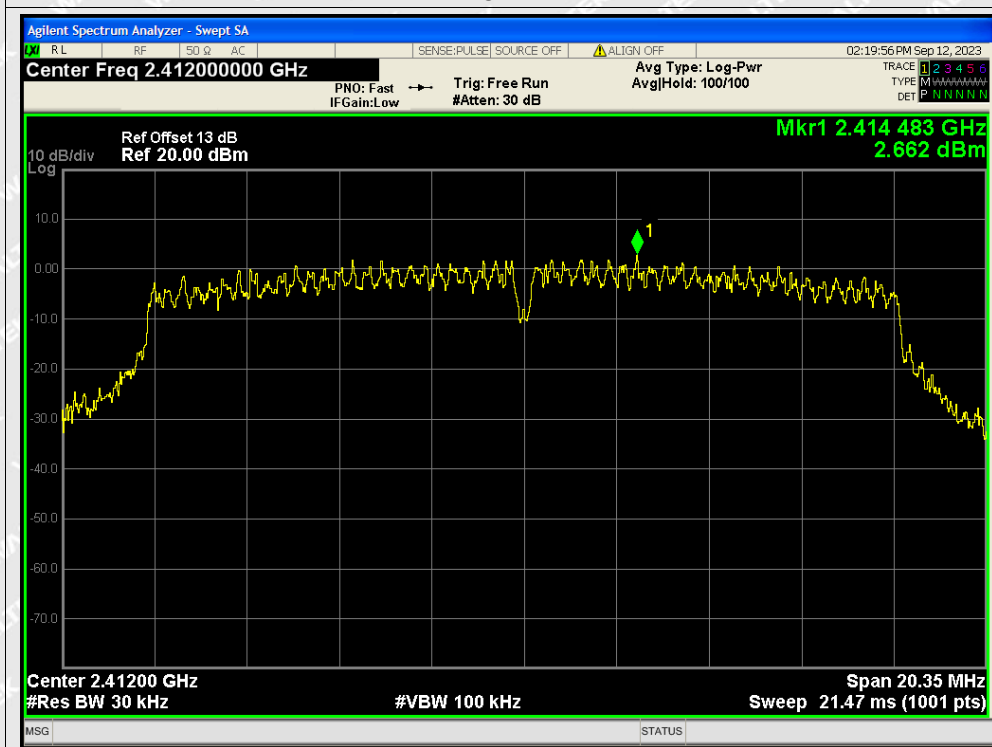


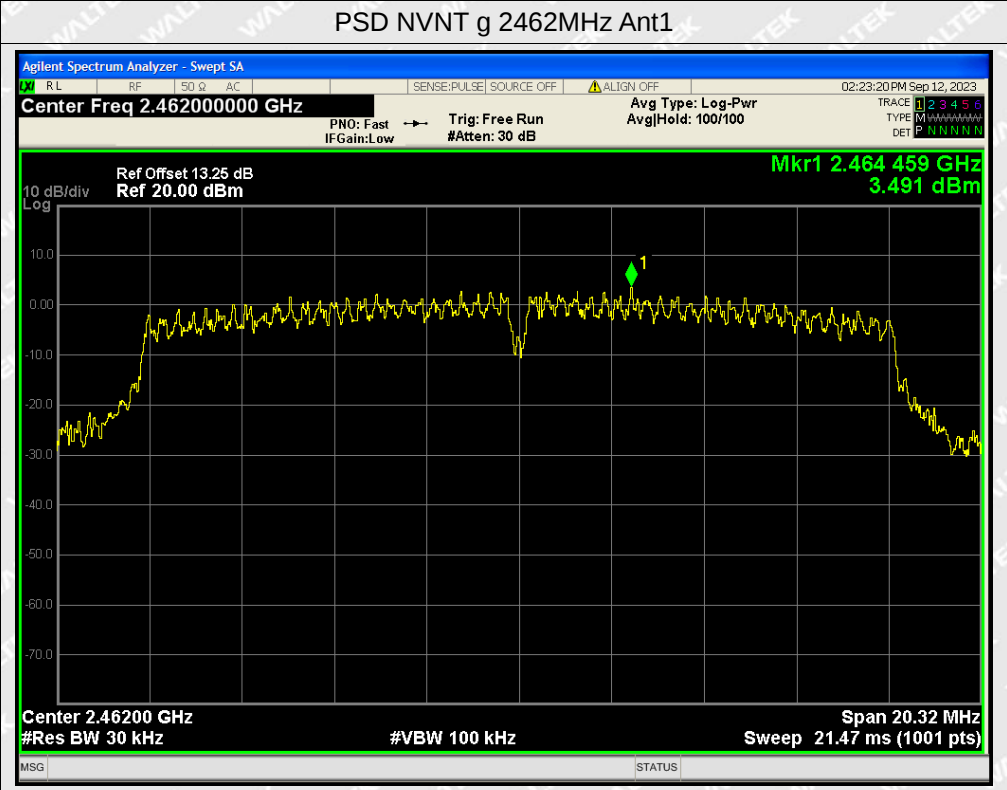
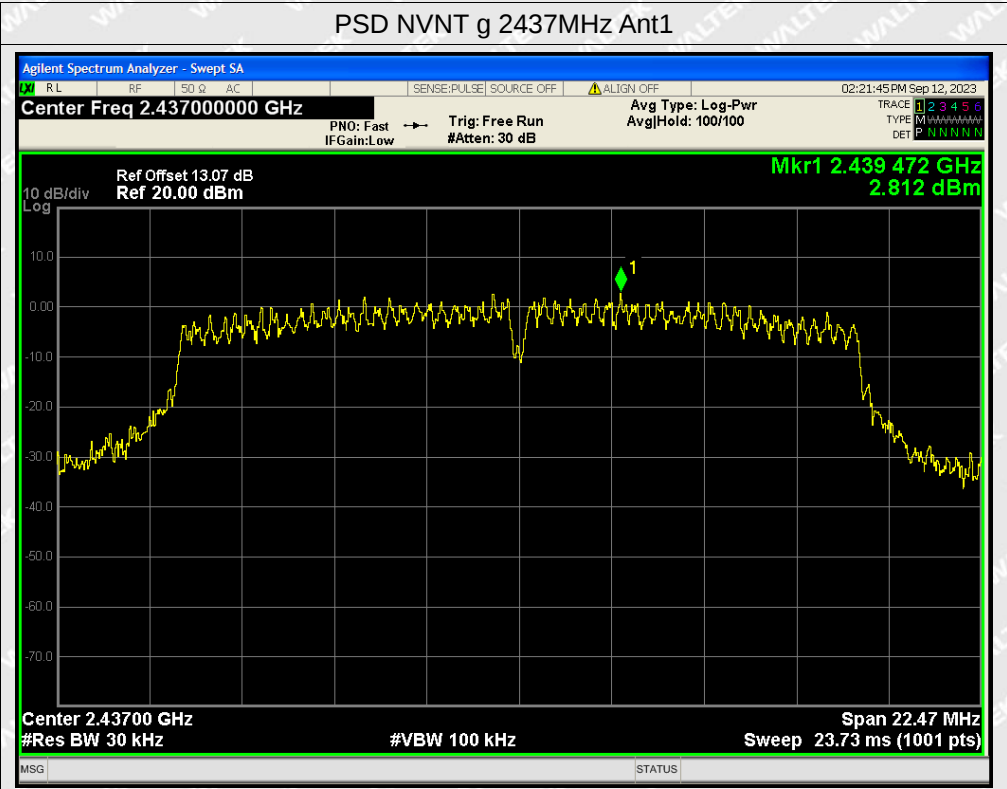


## PSD NVNT b 2462MHz Ant1



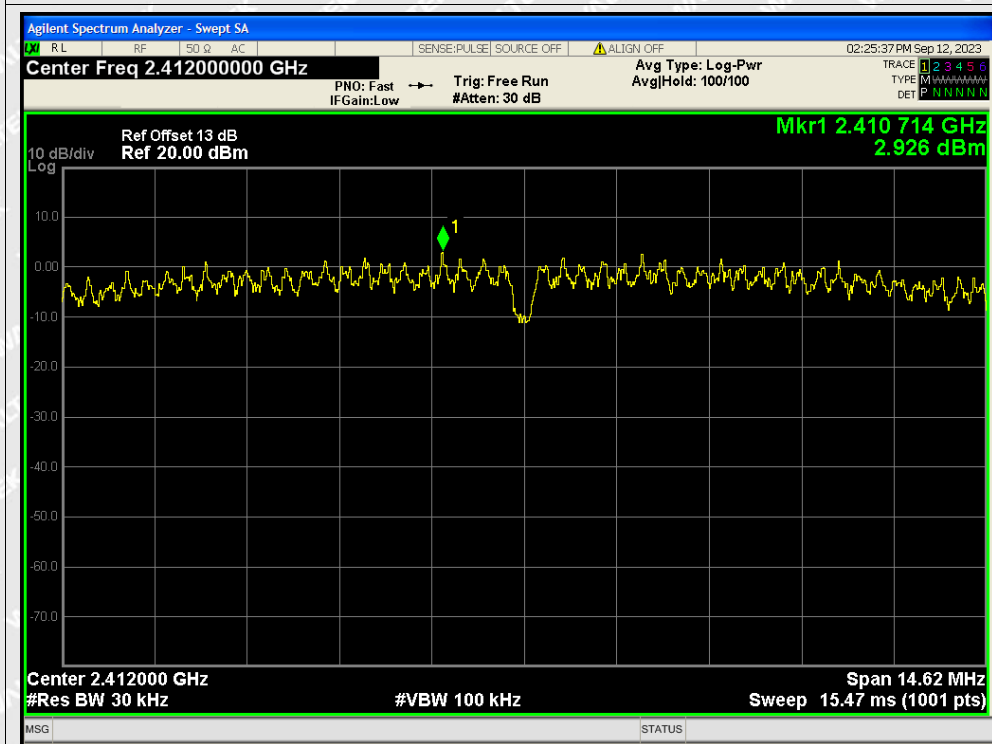
## PSD NVNT g 2412MHz Ant1



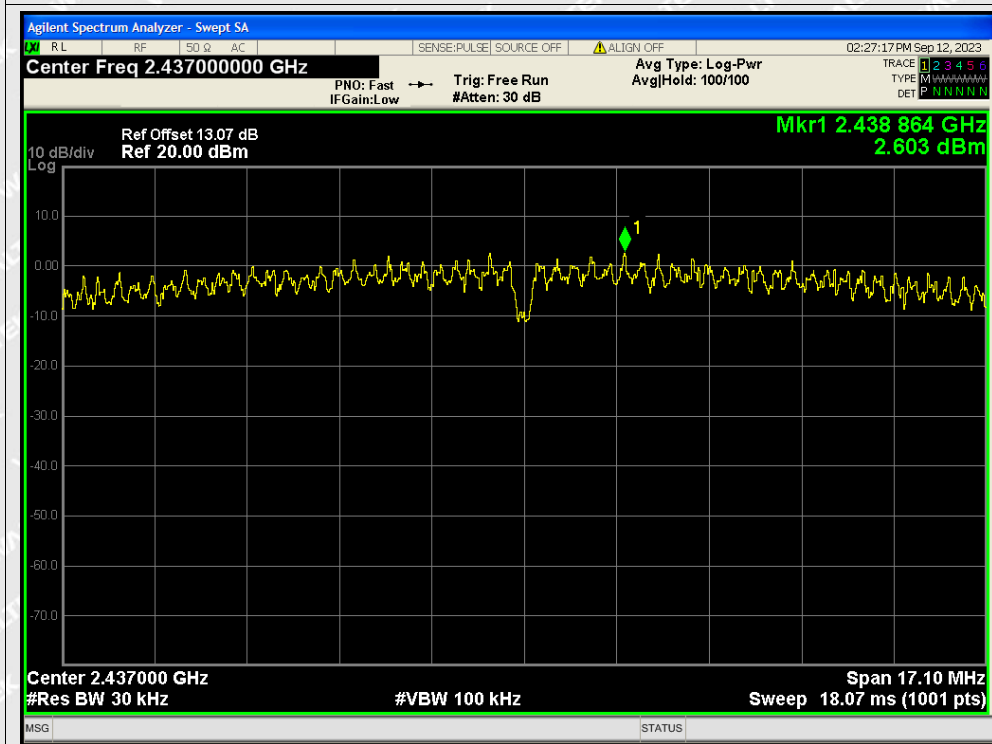


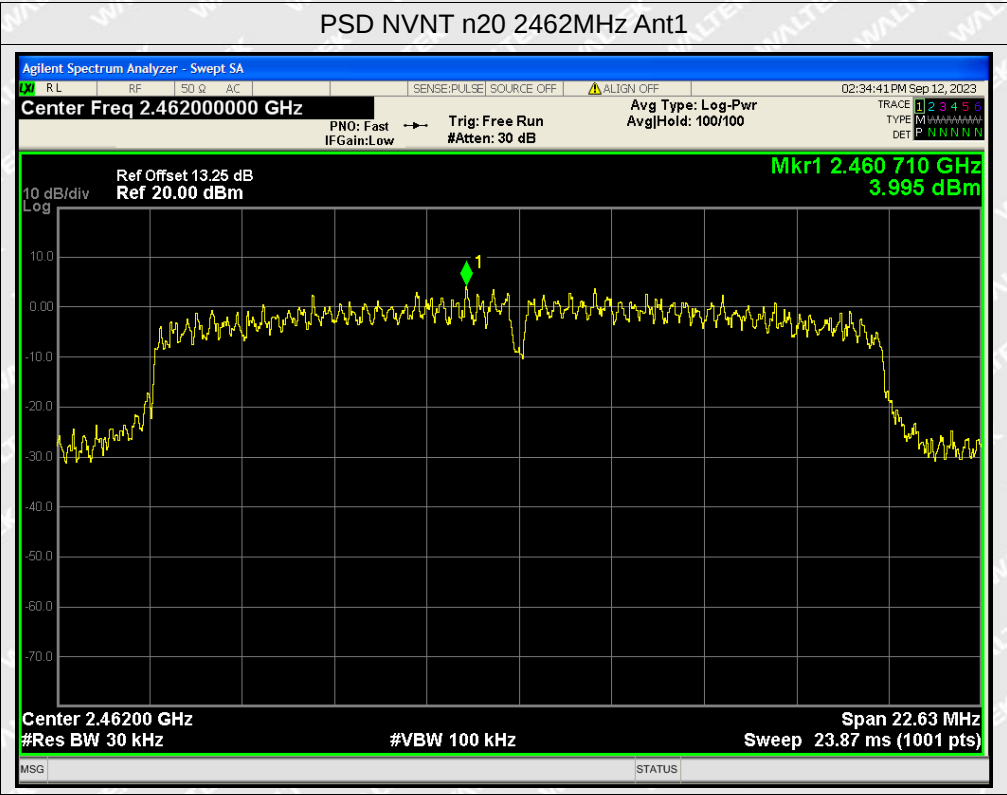


## PSD NVNT n20 2412MHz Ant1



## PSD NVNT n20 2437MHz Ant1





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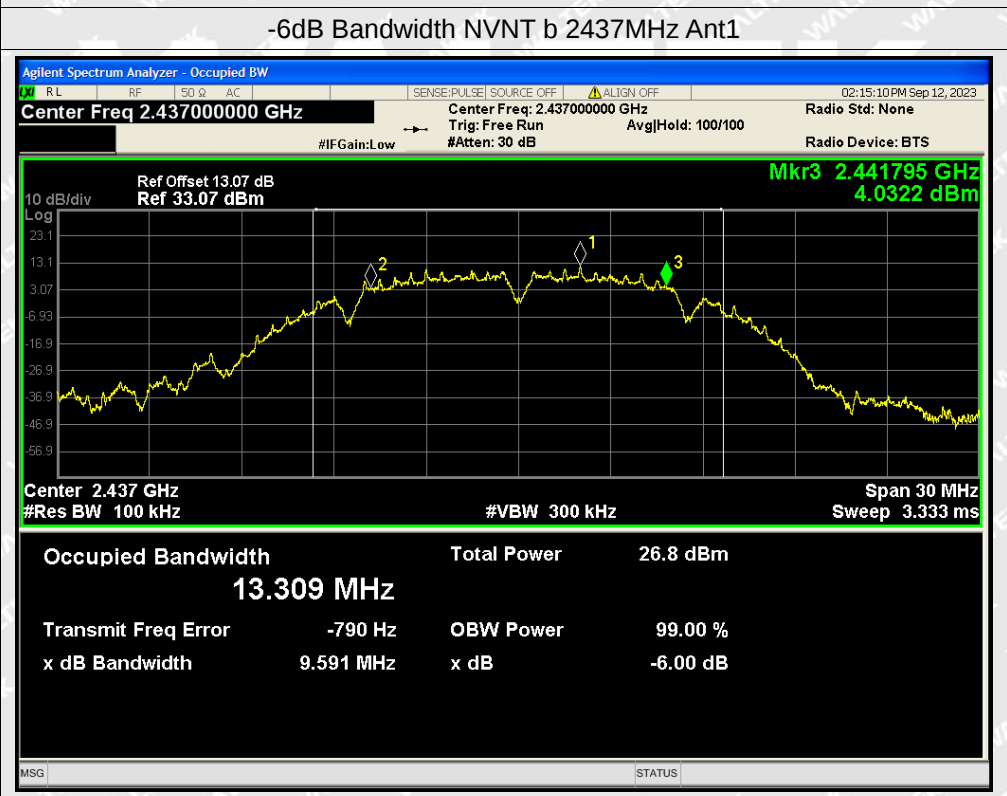
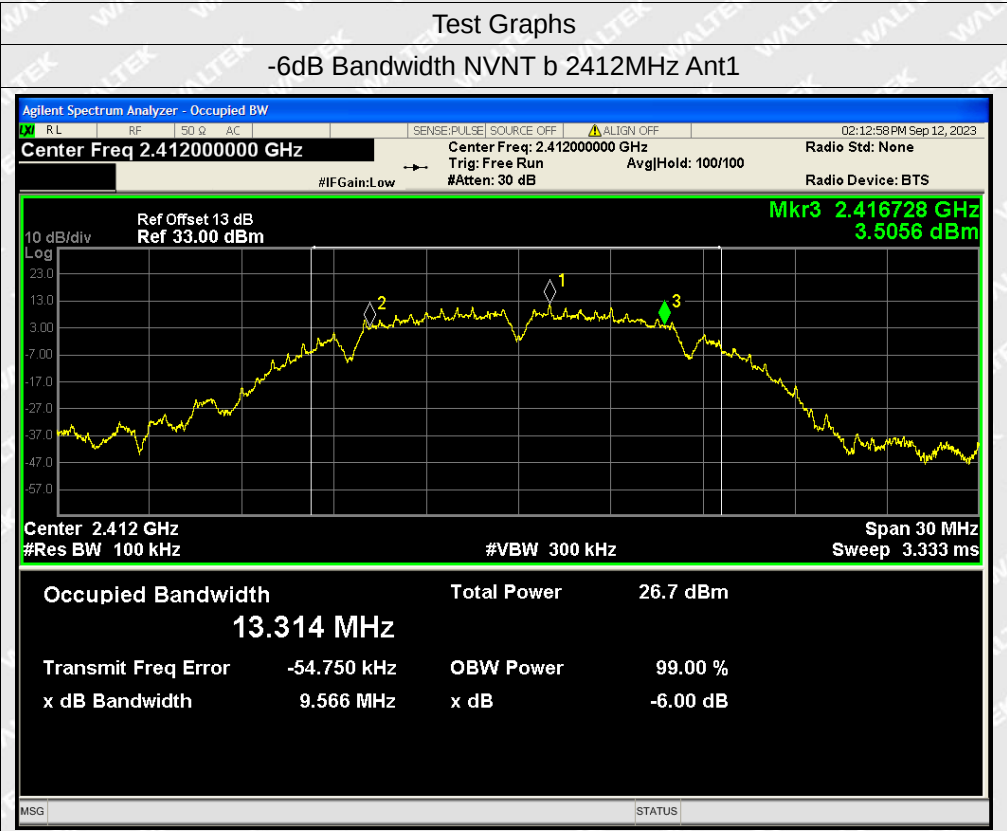


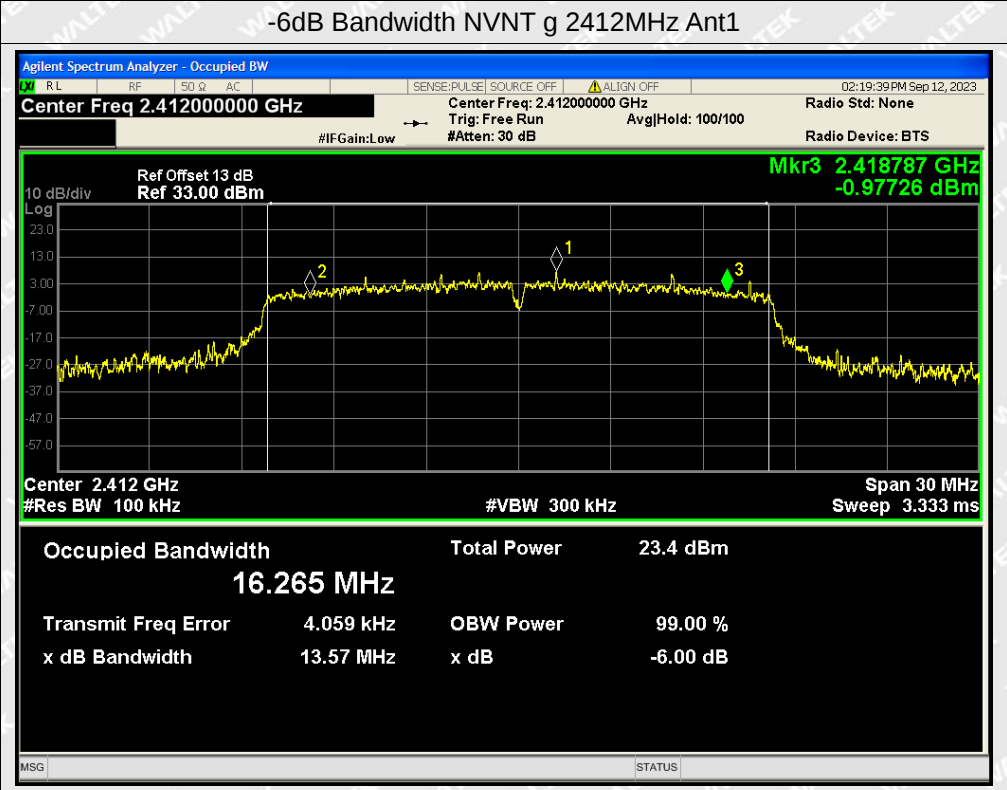
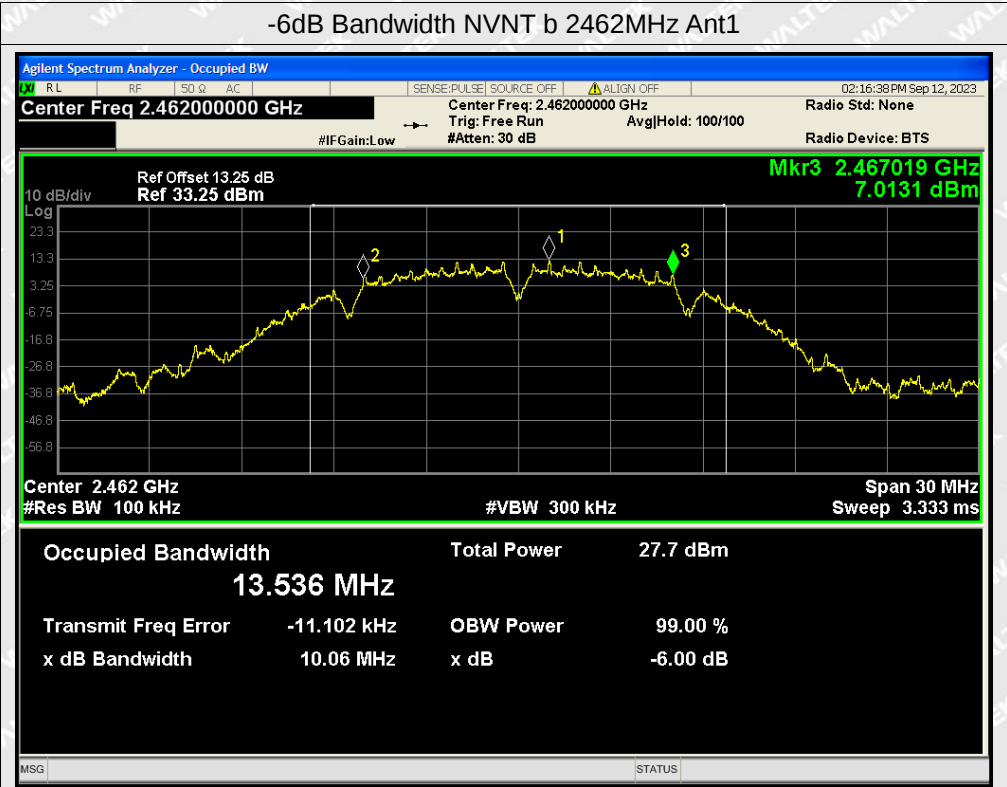
## APPENDIX C

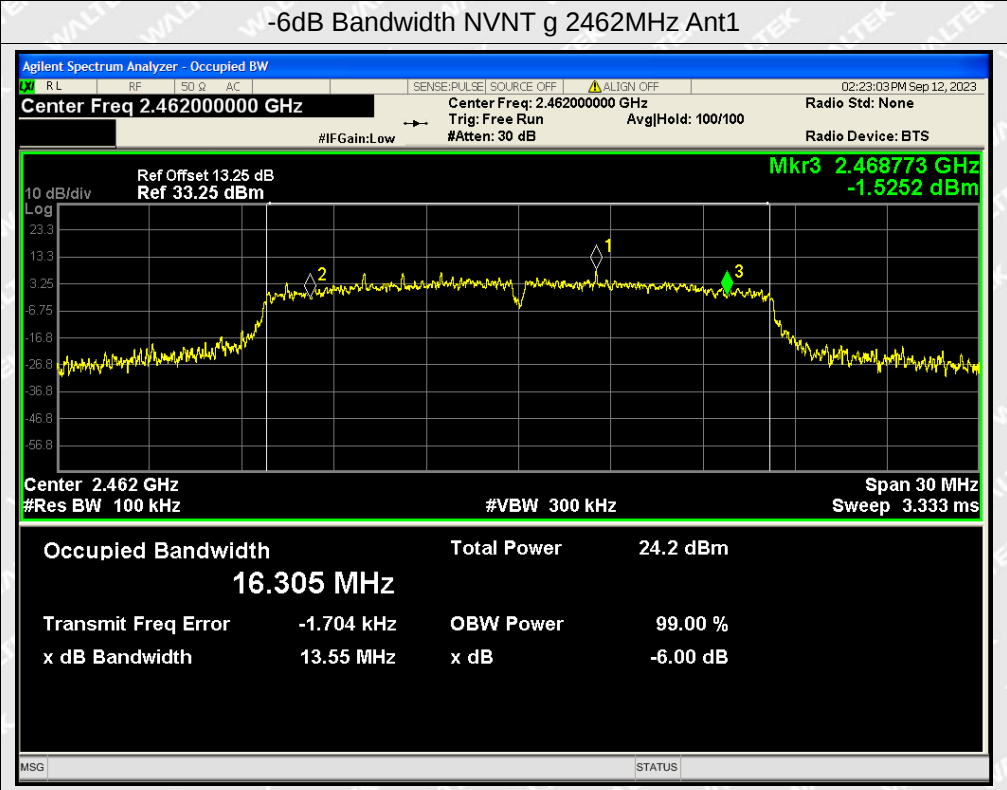
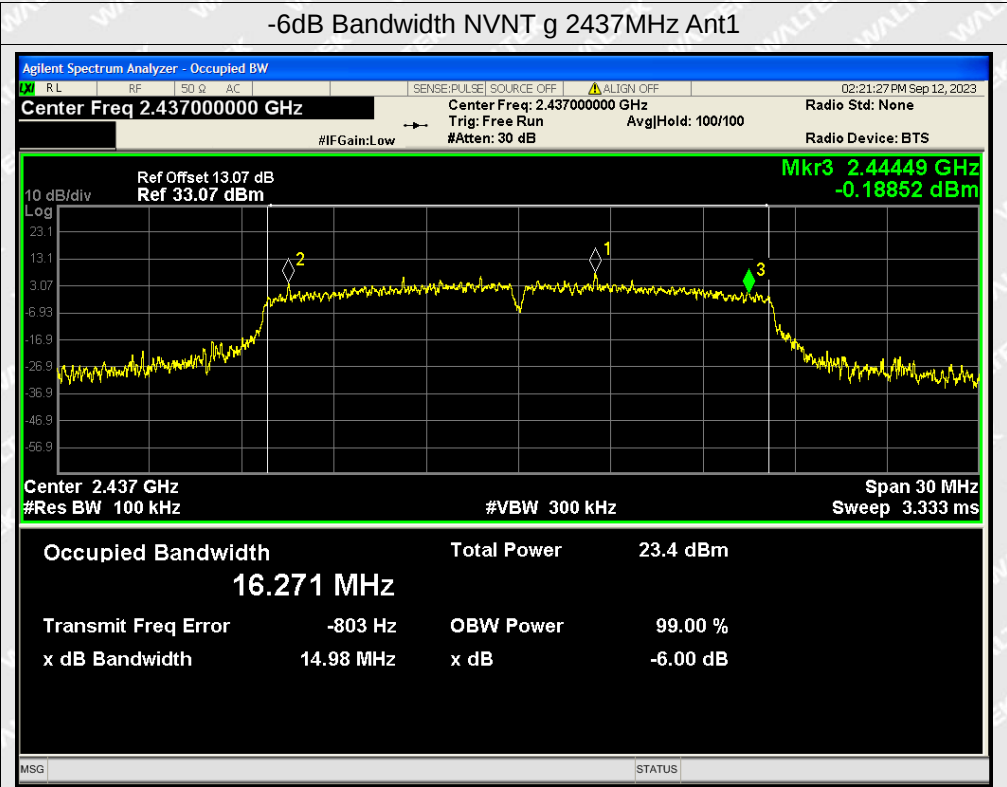
### -6dB Bandwidth

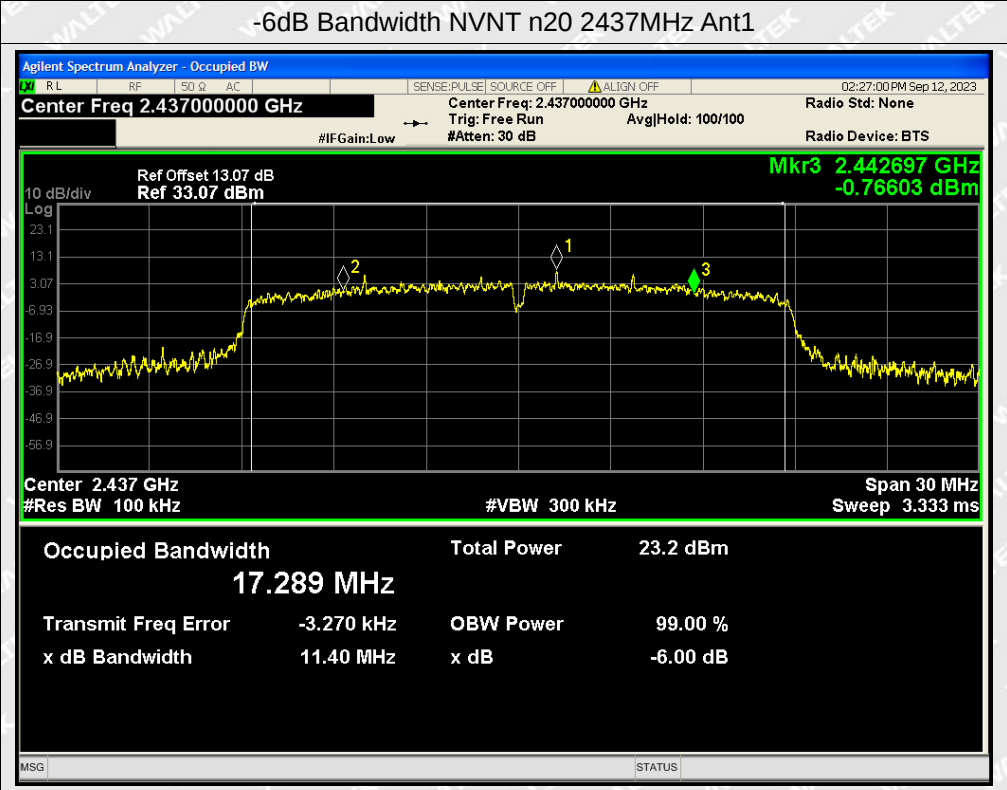
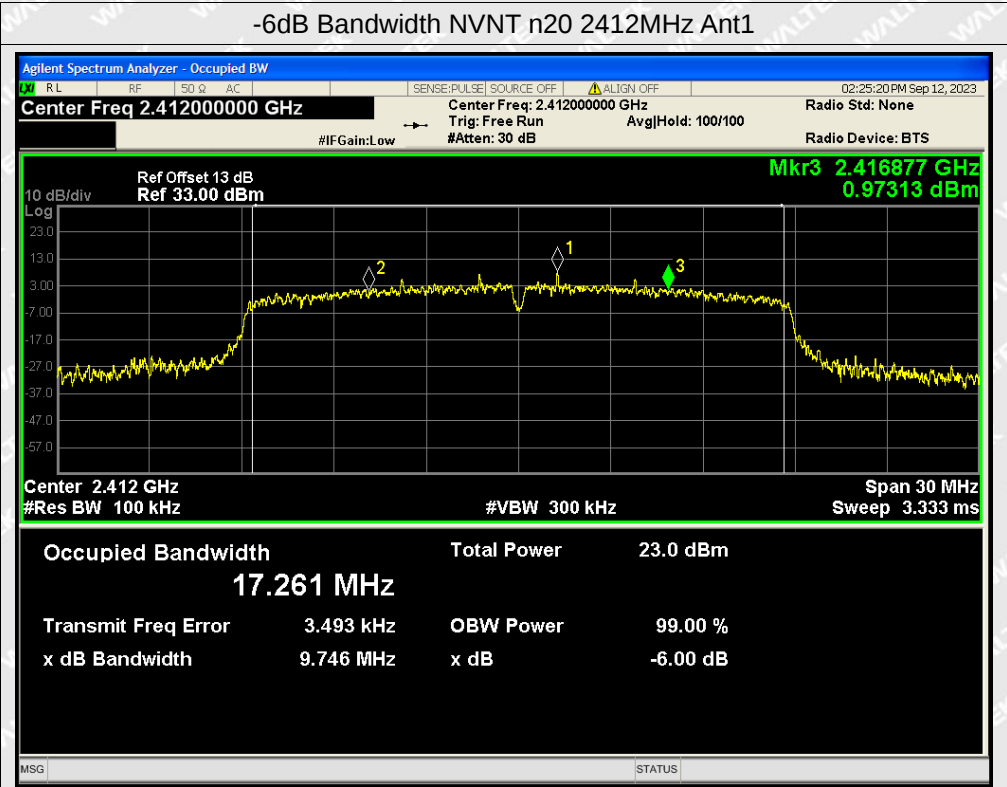
| Condition | Mode | Frequency<br>(MHz) | Antenna | -6 dB Bandwidth<br>(MHz) | Limit -6 dB Bandwidth<br>(MHz) | Verdict |
|-----------|------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT      | b    | 2412               | Ant1    | 9.566                    | 0.5                            | Pass    |
| NVNT      | b    | 2437               | Ant1    | 9.591                    | 0.5                            | Pass    |
| NVNT      | b    | 2462               | Ant1    | 10.061                   | 0.5                            | Pass    |
| NVNT      | g    | 2412               | Ant1    | 13.567                   | 0.5                            | Pass    |
| NVNT      | g    | 2437               | Ant1    | 14.981                   | 0.5                            | Pass    |
| NVNT      | g    | 2462               | Ant1    | 13.549                   | 0.5                            | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 9.746                    | 0.5                            | Pass    |
| NVNT      | n20  | 2437               | Ant1    | 11.401                   | 0.5                            | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 15.087                   | 0.5                            | Pass    |

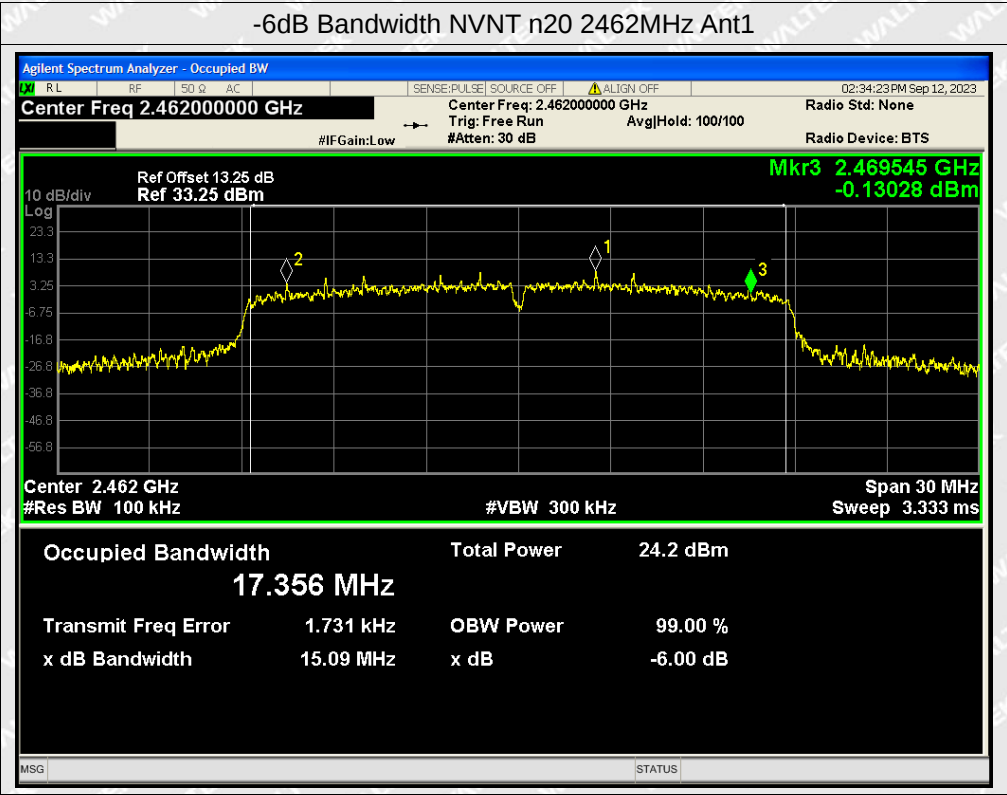
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## APPENDIX D

Maximum Average Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Conducted Power (dBm) | Total Conducted Power (W) | Limit Conducted(dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-----------------------------|---------------------------|----------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 18.44                 | 0.58             | 19.02                       | 0.0798                    | 30                   | Pass    |
| NVNT      | b    | 2437            | Ant1    | 19.86                 | 0.58             | 20.44                       | 0.11066                   | 30                   | Pass    |
| NVNT      | b    | 2462            | Ant1    | 17.33                 | 0.58             | 17.91                       | 0.0618                    | 30                   | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.52                 | 2.70             | 17.22                       | 0.05272                   | 30                   | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.22                 | 2.71             | 17.93                       | 0.06209                   | 30                   | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.19                 | 2.70             | 16.89                       | 0.04887                   | 30                   | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.91                 | 2.85             | 16.76                       | 0.04742                   | 30                   | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 14.86                 | 2.84             | 17.70                       | 0.05888                   | 30                   | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.41                 | 2.85             | 16.26                       | 0.04227                   | 30                   | Pass    |

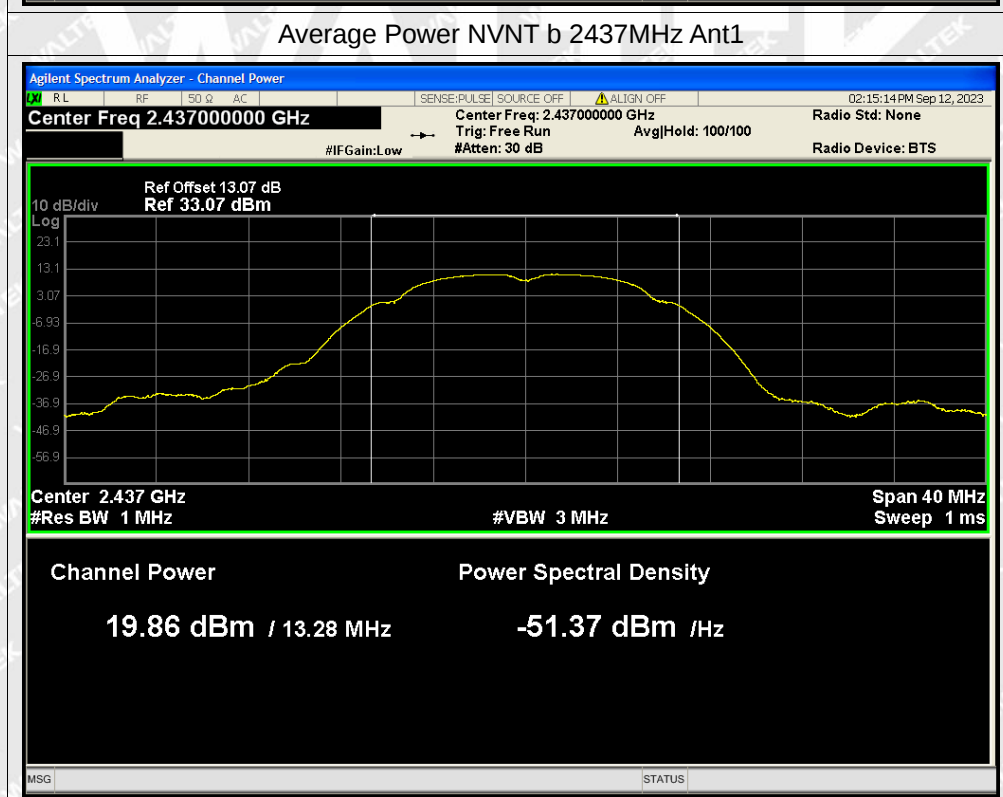
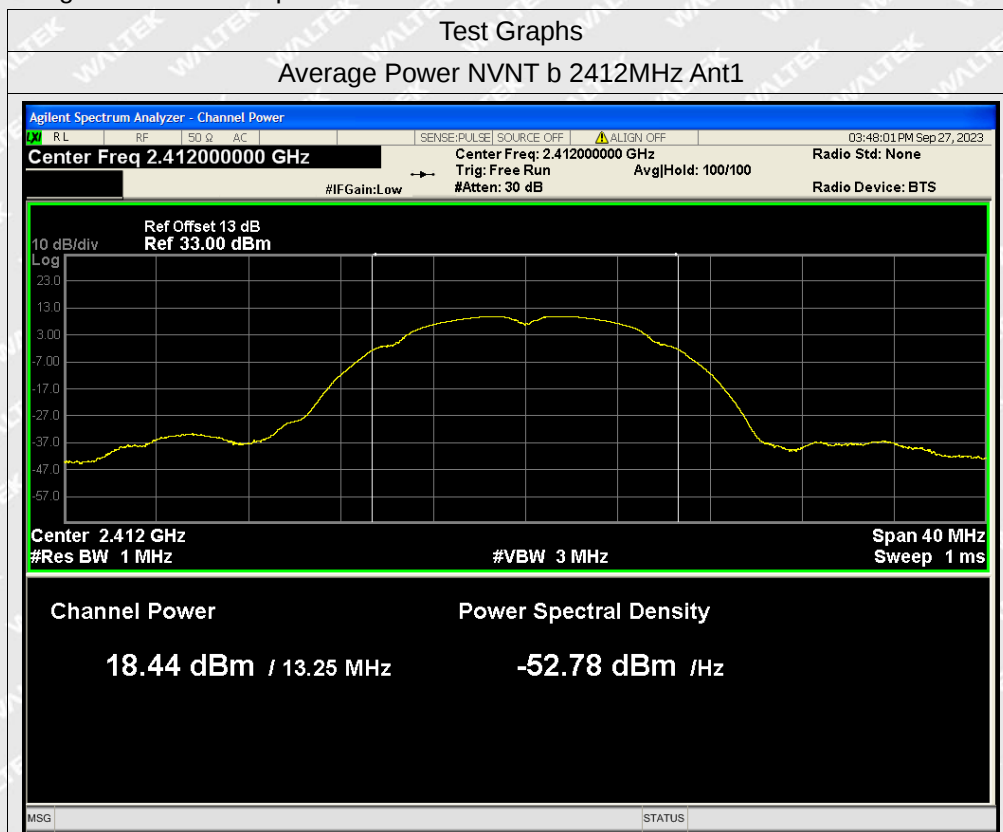
Maximum Peak Conducted Output Power

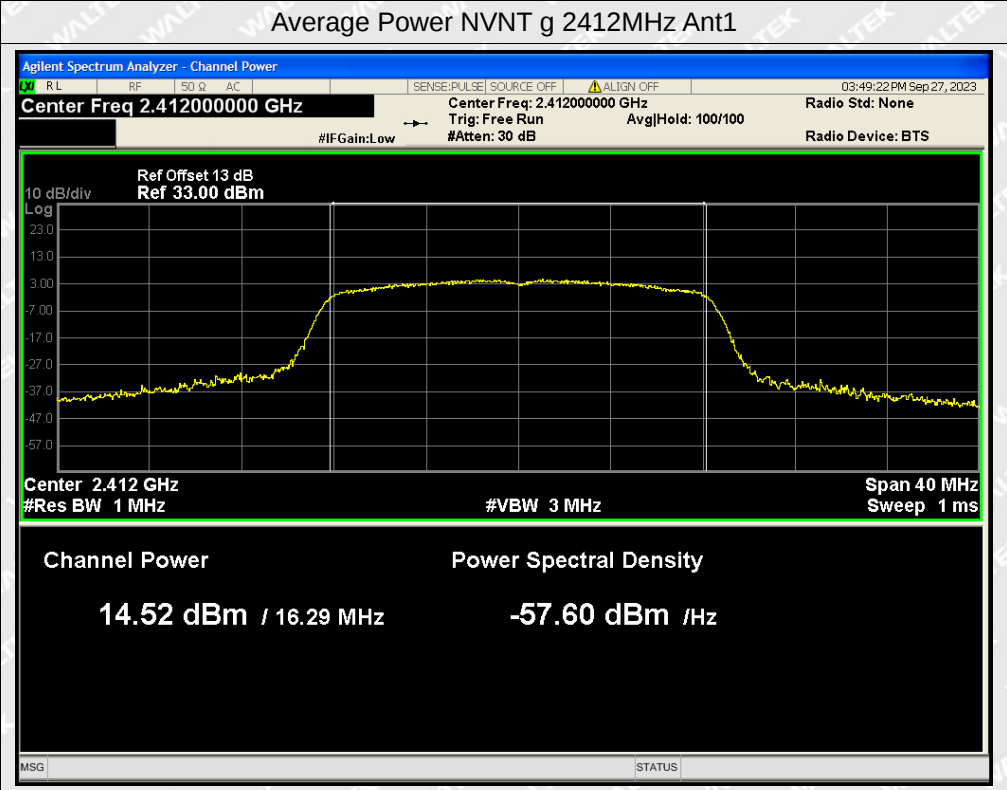
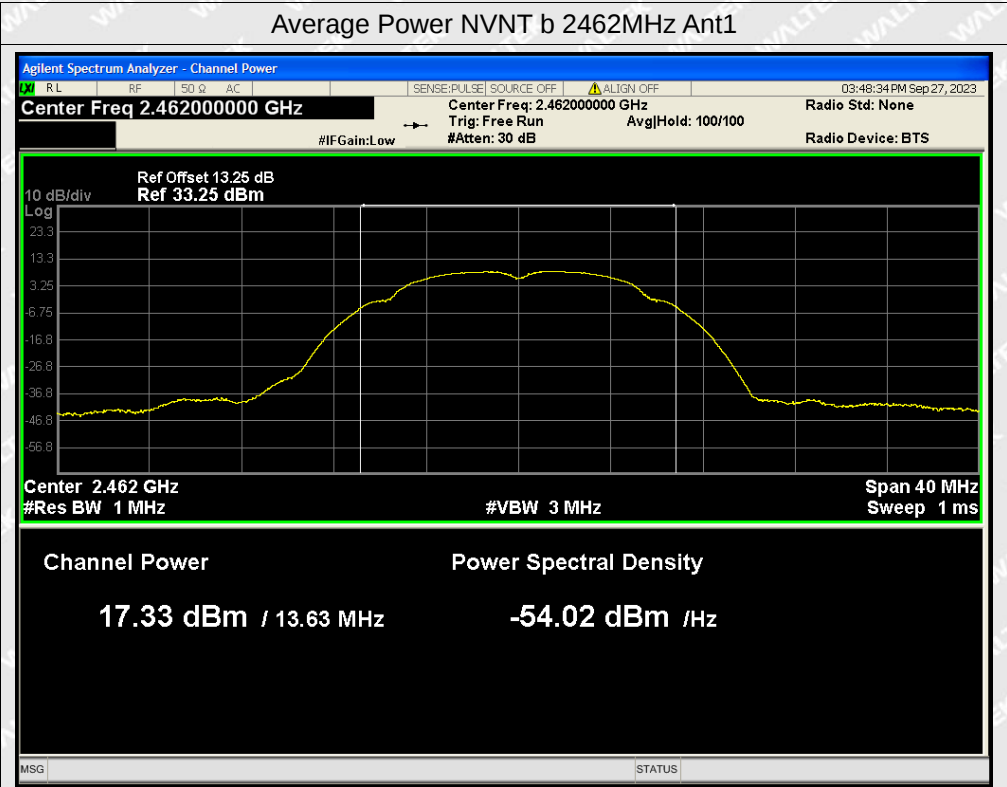
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Conducted Power (dBm) | Total Conducted Power (W) | Limit Conducted(dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-----------------------------|---------------------------|----------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 21.84                 | 0                | 21.84                       | 0.15276                   | 30                   | Pass    |
| NVNT      | b    | 2437            | Ant1    | 23.21                 | 0                | 23.21                       | 0.20941                   | 30                   | Pass    |
| NVNT      | b    | 2462            | Ant1    | 20.68                 | 0                | 20.68                       | 0.11695                   | 30                   | Pass    |
| NVNT      | g    | 2412            | Ant1    | 23.26                 | 0                | 23.26                       | 0.21184                   | 30                   | Pass    |
| NVNT      | g    | 2437            | Ant1    | 24.59                 | 0                | 24.59                       | 0.28774                   | 30                   | Pass    |
| NVNT      | g    | 2462            | Ant1    | 23.34                 | 0                | 23.34                       | 0.21577                   | 30                   | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 22.2                  | 0                | 22.20                       | 0.16596                   | 30                   | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 23.56                 | 0                | 23.56                       | 0.22699                   | 30                   | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 23.4                  | 0                | 23.40                       | 0.21878                   | 30                   | Pass    |

Reference No.: WTX23X10217249W003



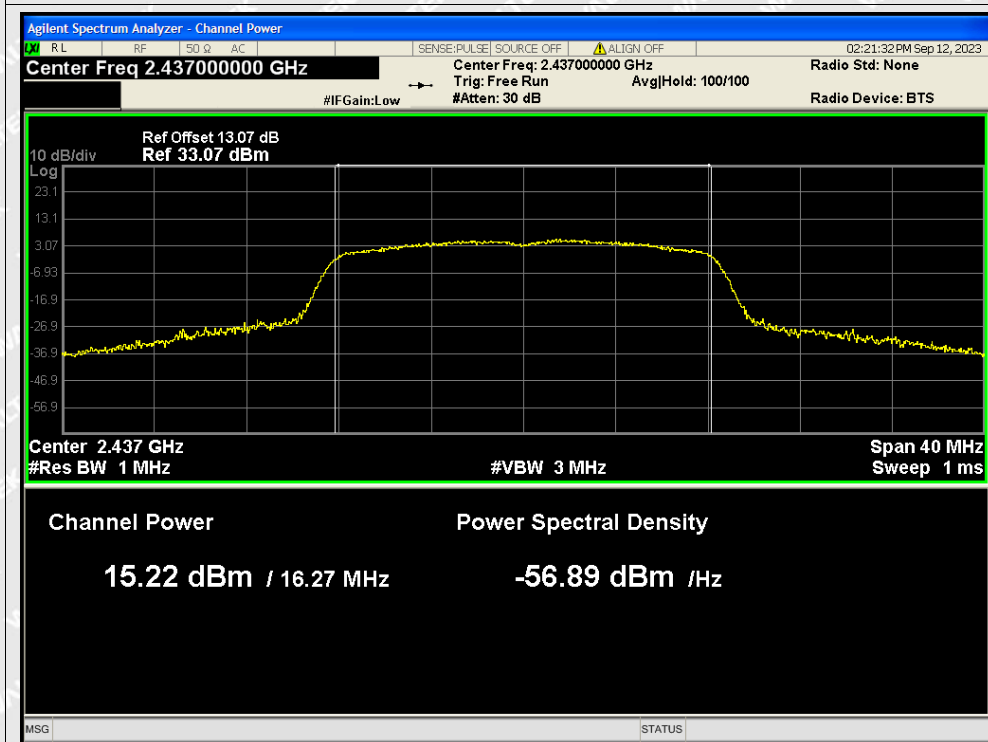
Maximum Average Conducted Output Power:



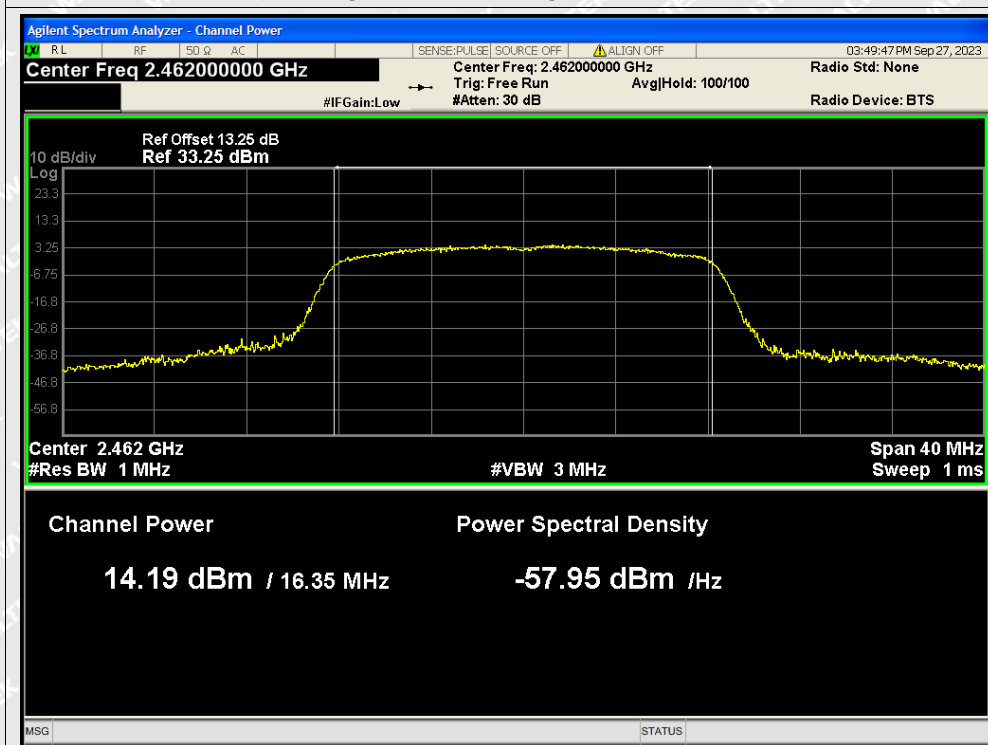


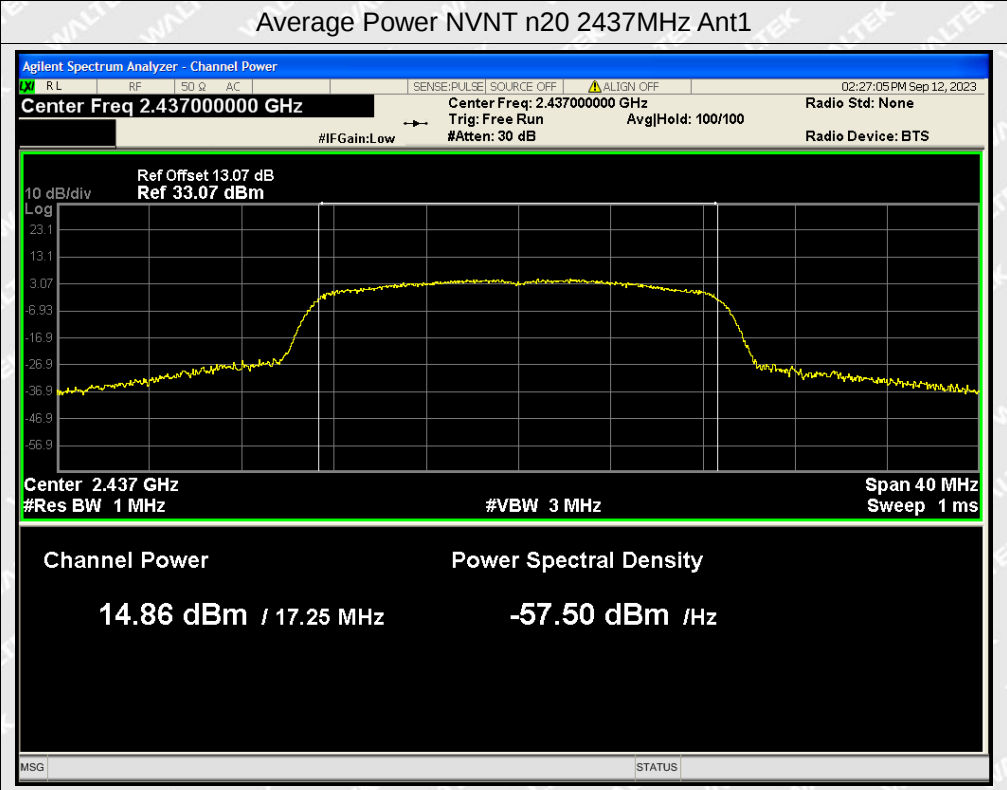
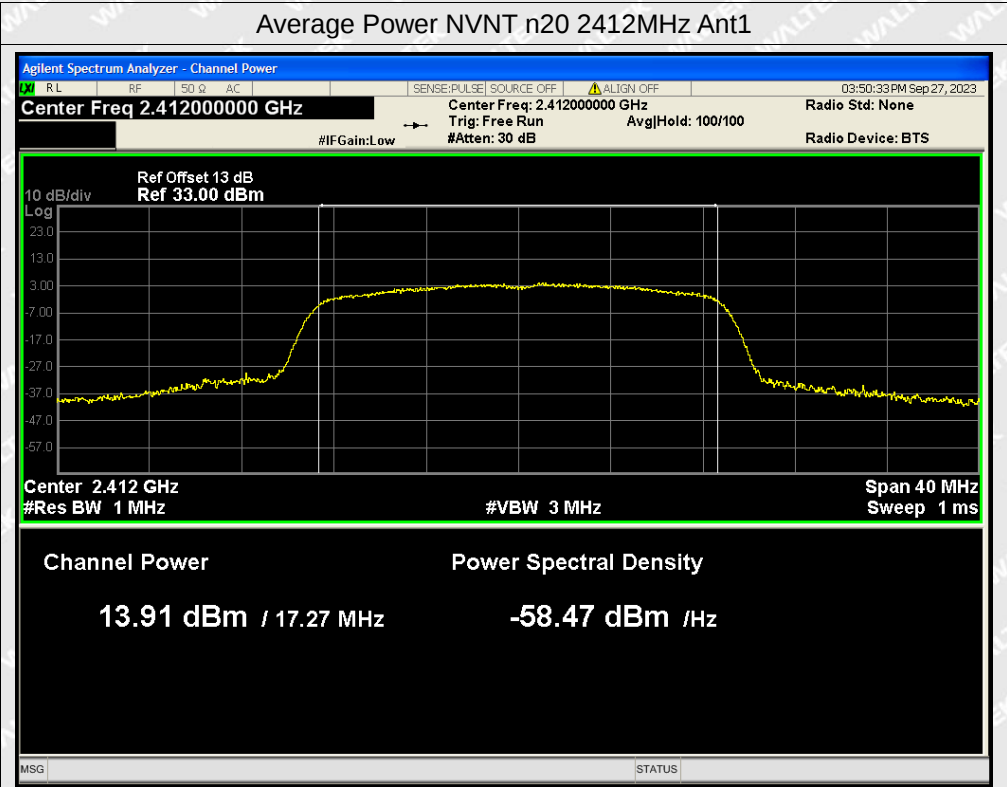


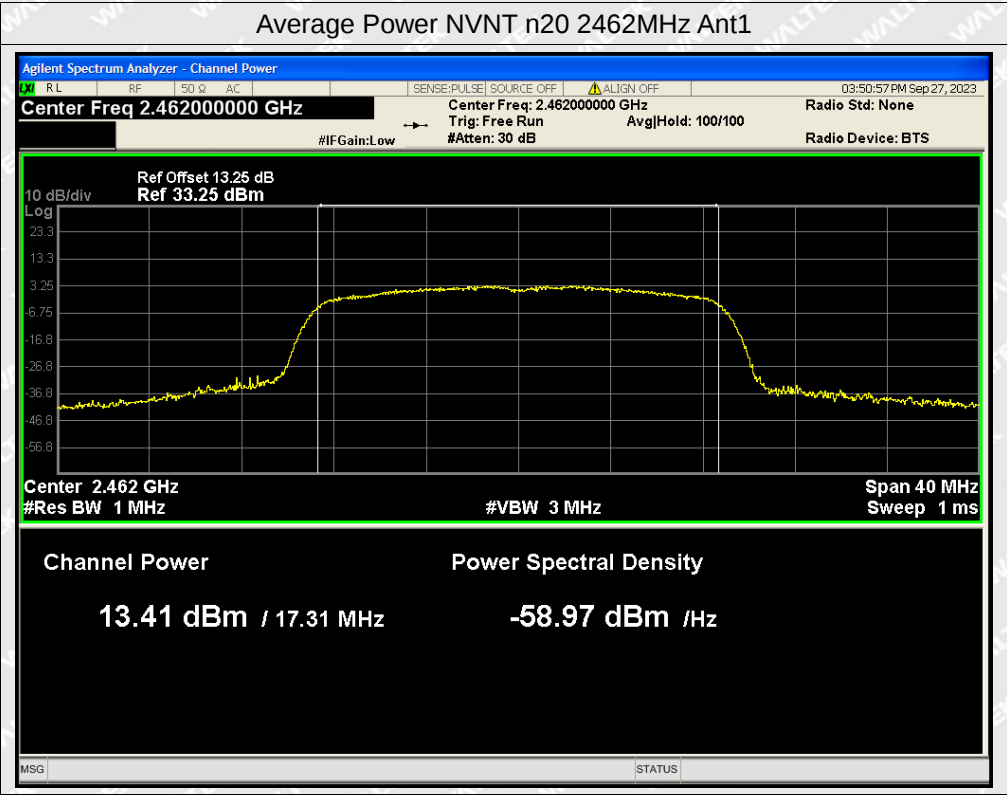
## Average Power NVNT g 2437MHz Ant1



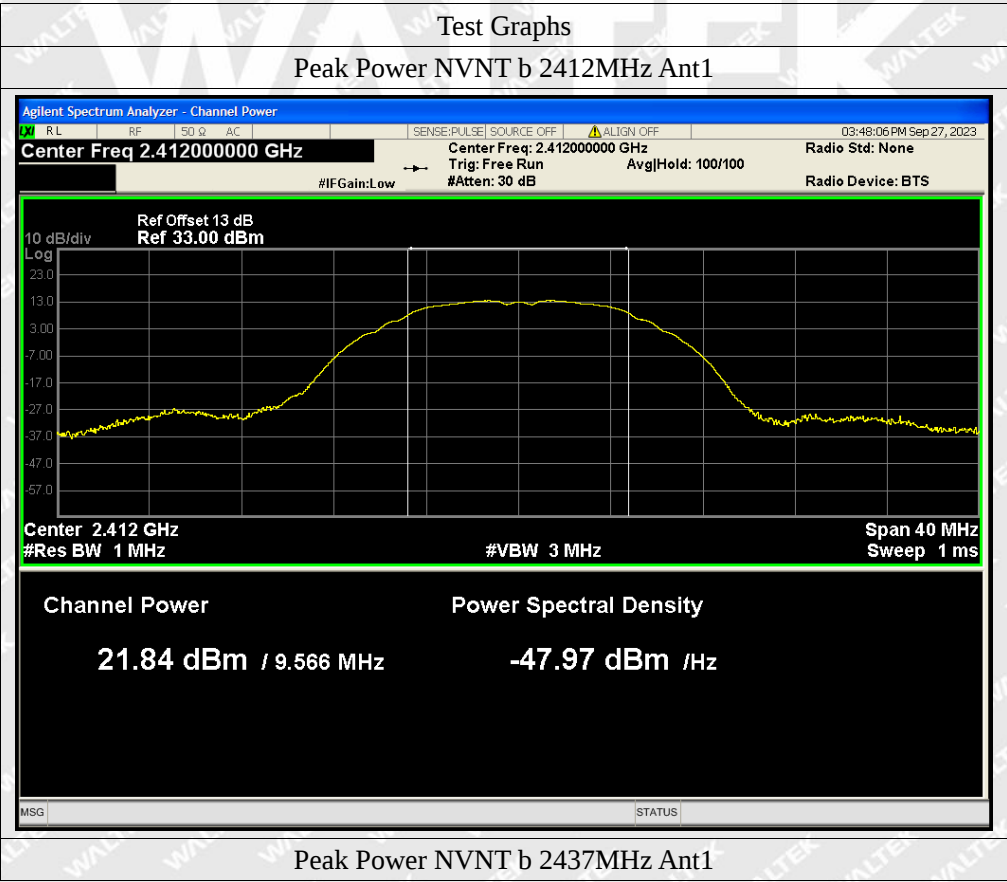
## Average Power NVNT g 2462MHz Ant1

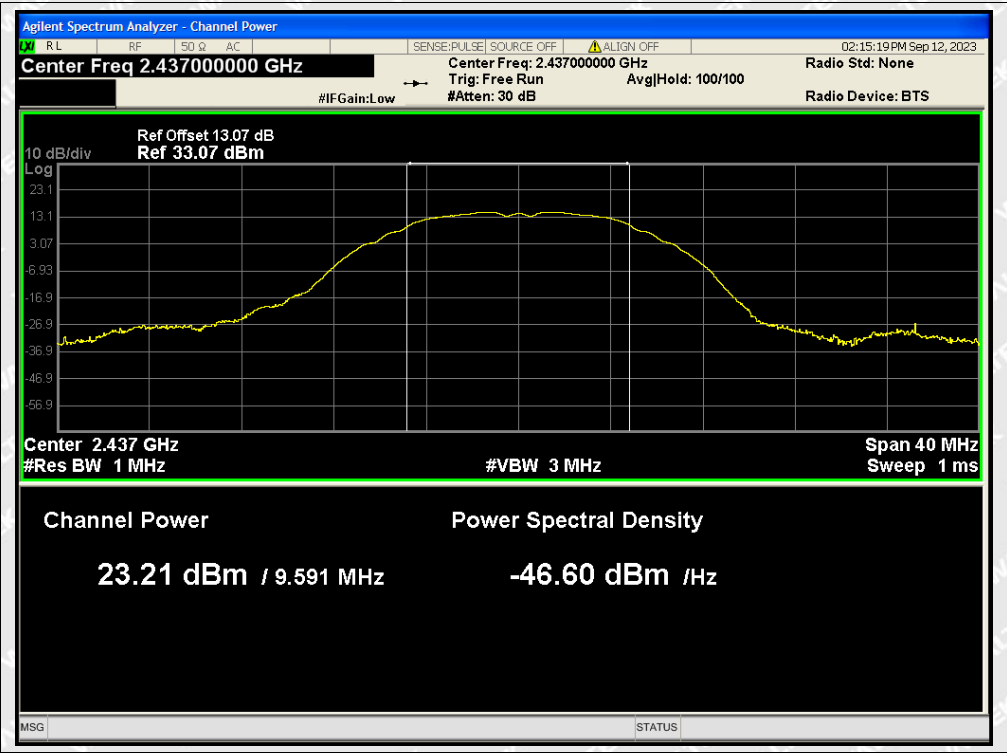






Maximum Peak Conducted Output Power:

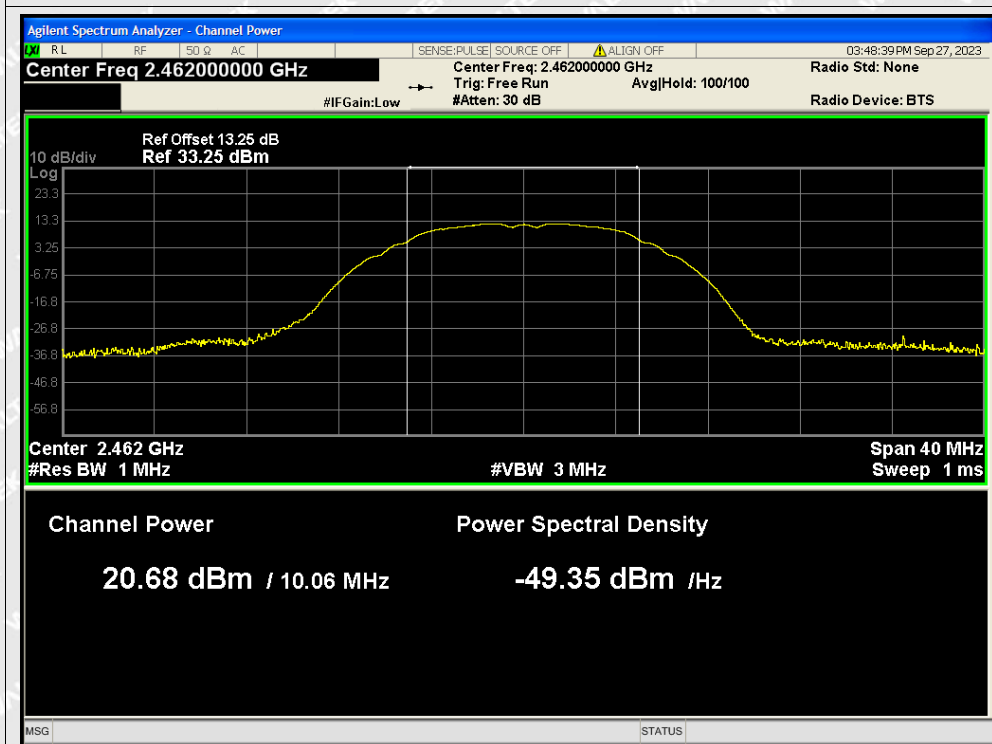




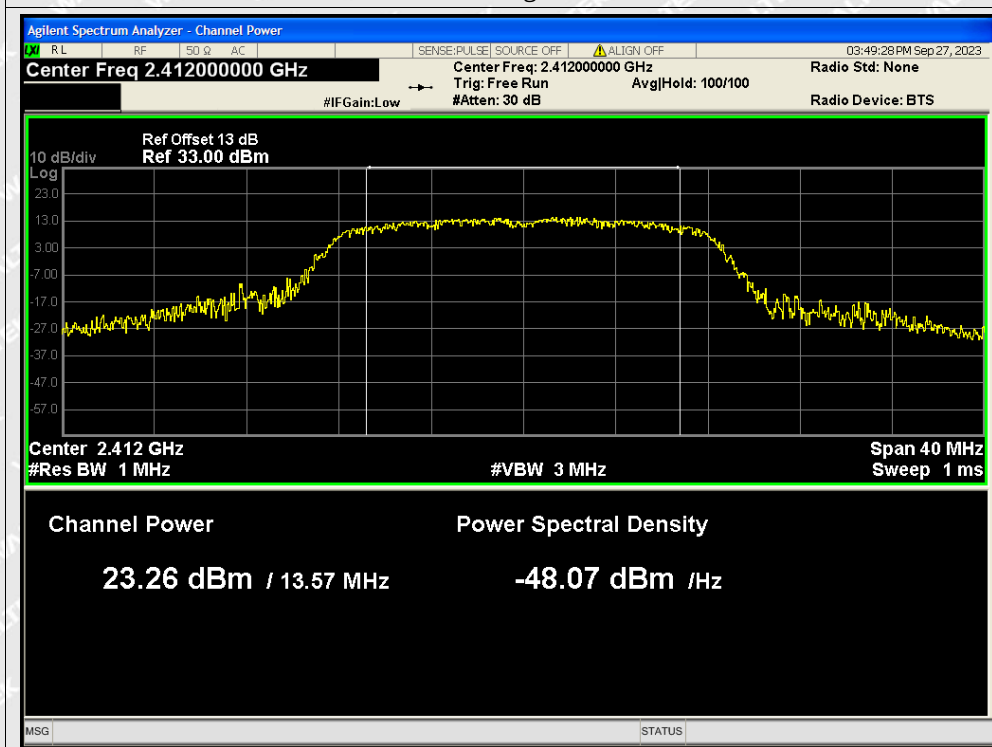
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## Peak Power NVNT b 2462MHz Ant1

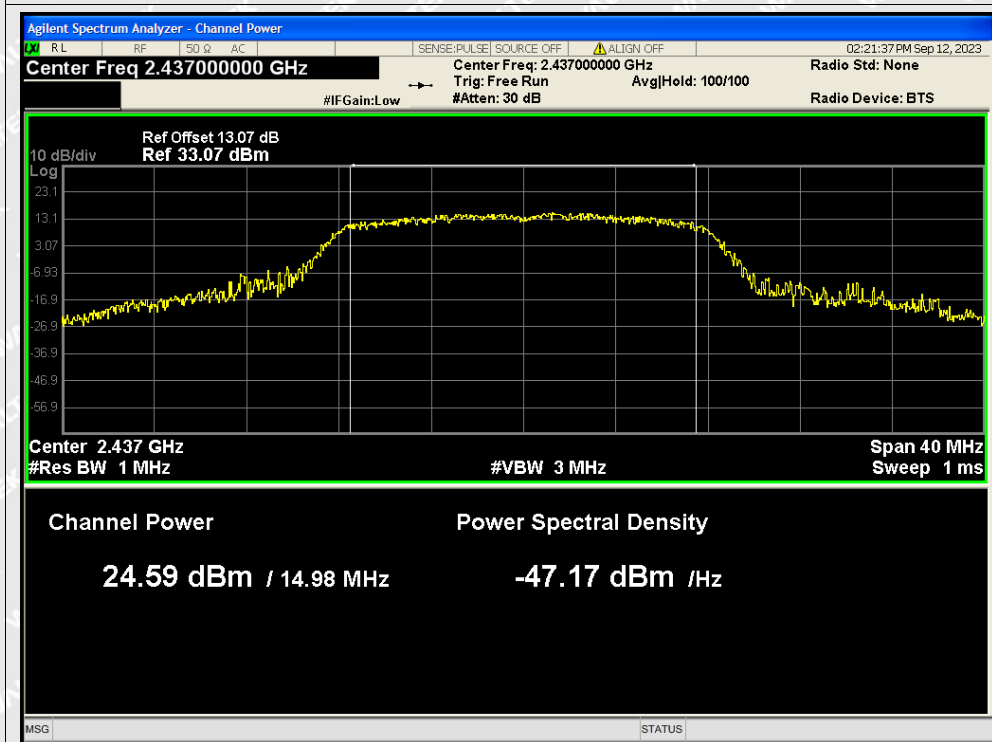


## Peak Power NVNT g 2412MHz Ant1

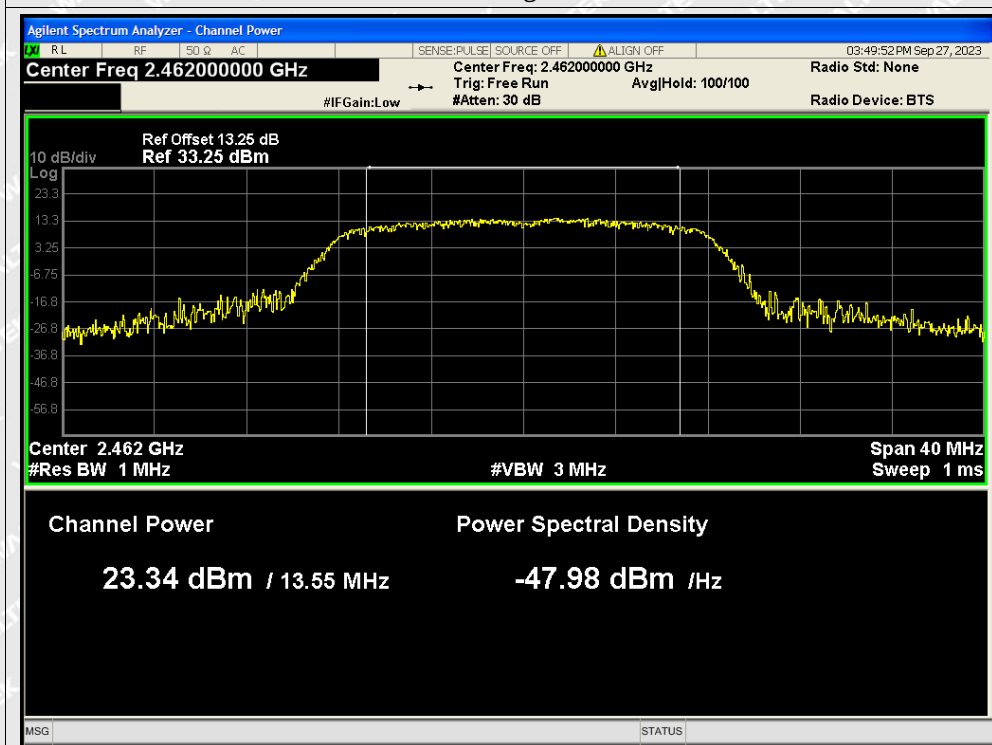


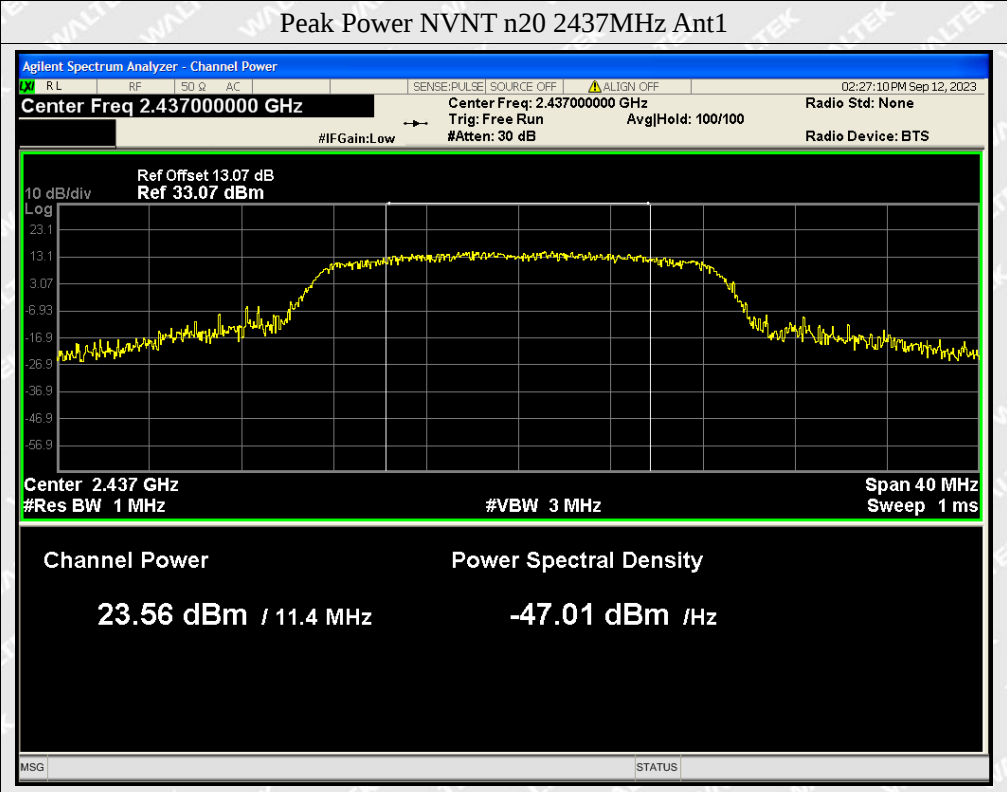
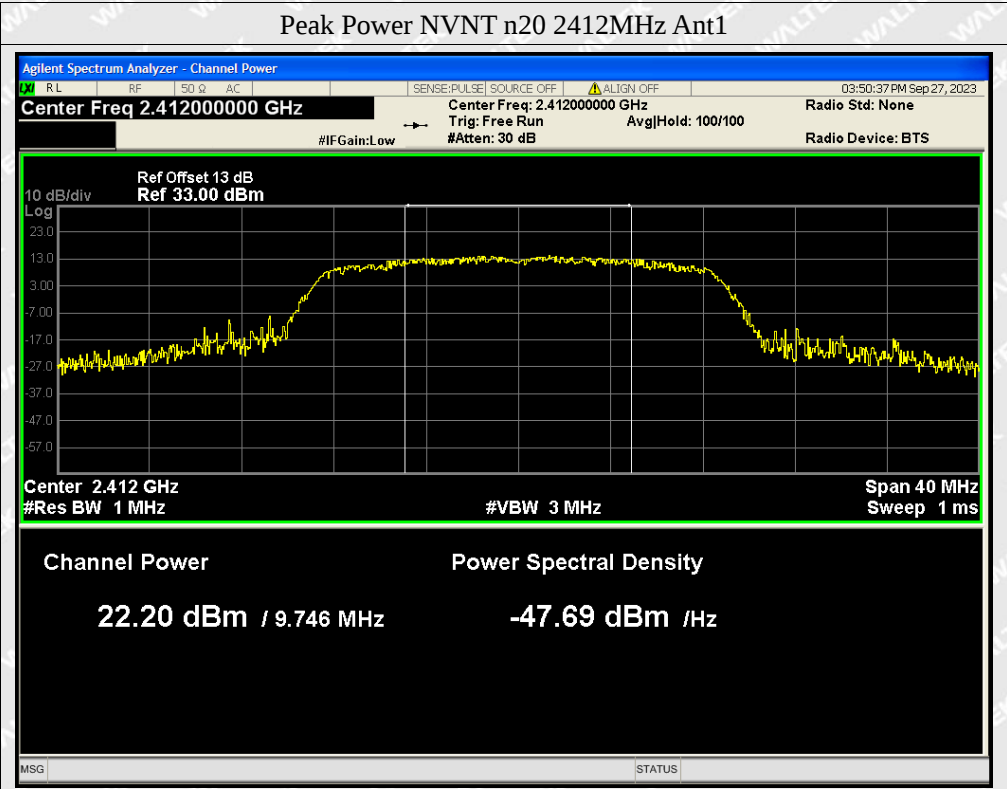


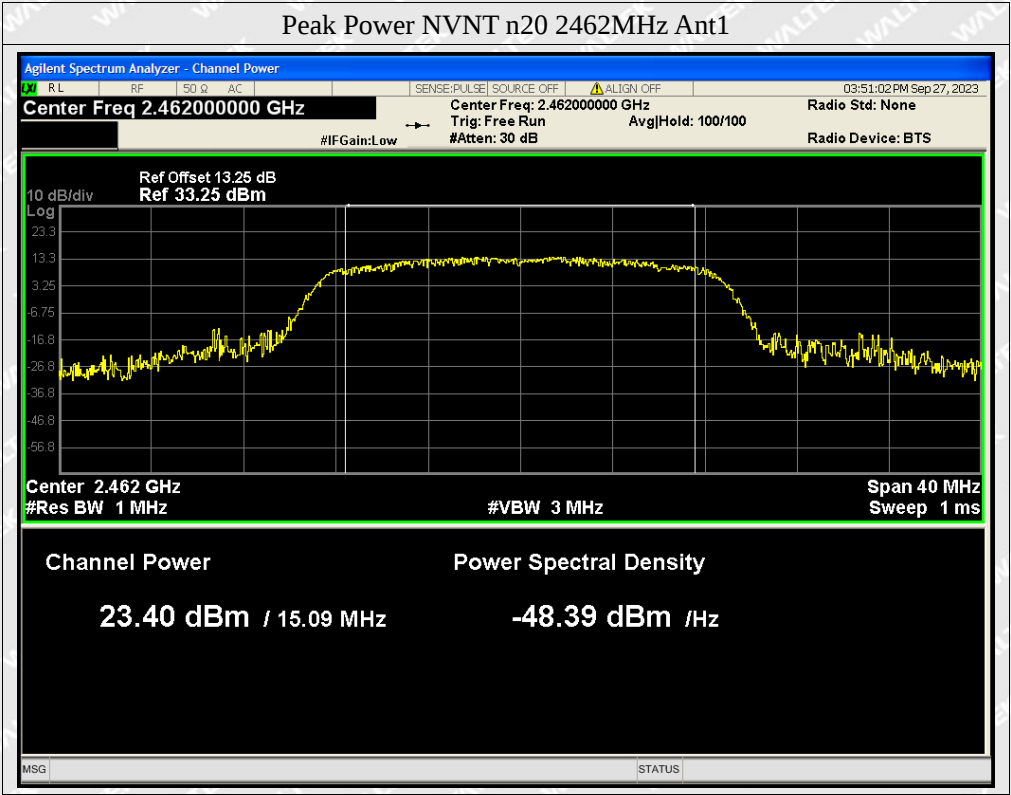
## Peak Power NVNT g 2437MHz Ant1



## Peak Power NVNT g 2462MHz Ant1







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## APPENDIX E

### Conducted Out of Band Emissions

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -41.29          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -45.18          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -32.43          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -41.33          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -30.36          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.97          | -20         | Pass    |

### Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -39.97          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -40.85          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -41.42          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -35.55          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -36.37          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -37.25          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -35.7           | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -36.1           | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -37.38          | -20         | Pass    |

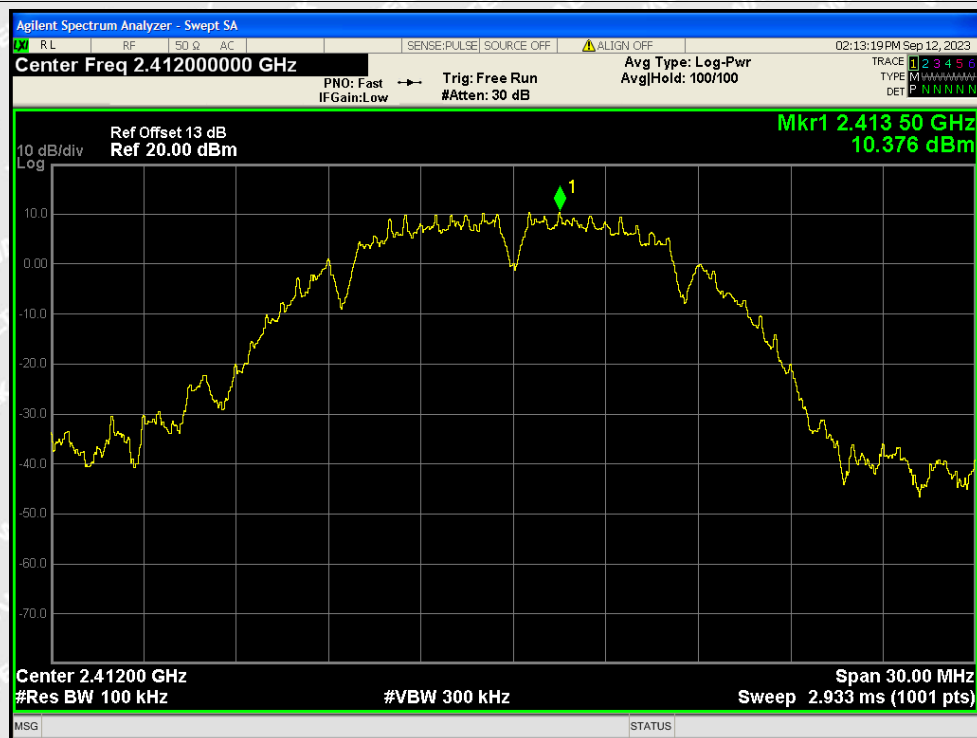


Reference No.: WTX23X10217249W003

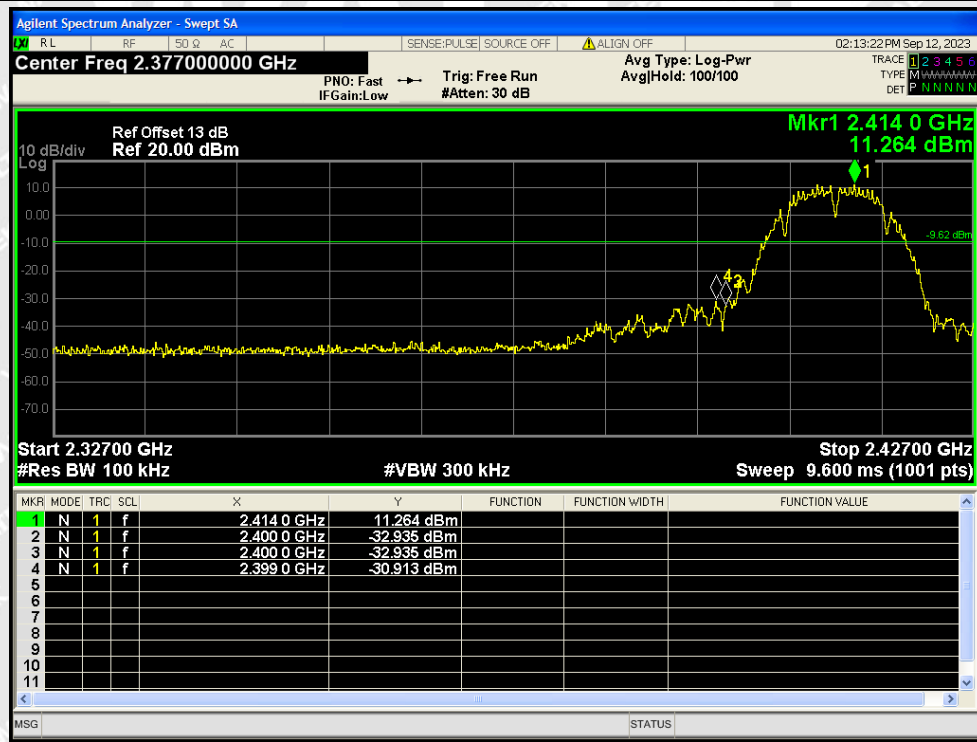
Conducted Out of Band Emissions

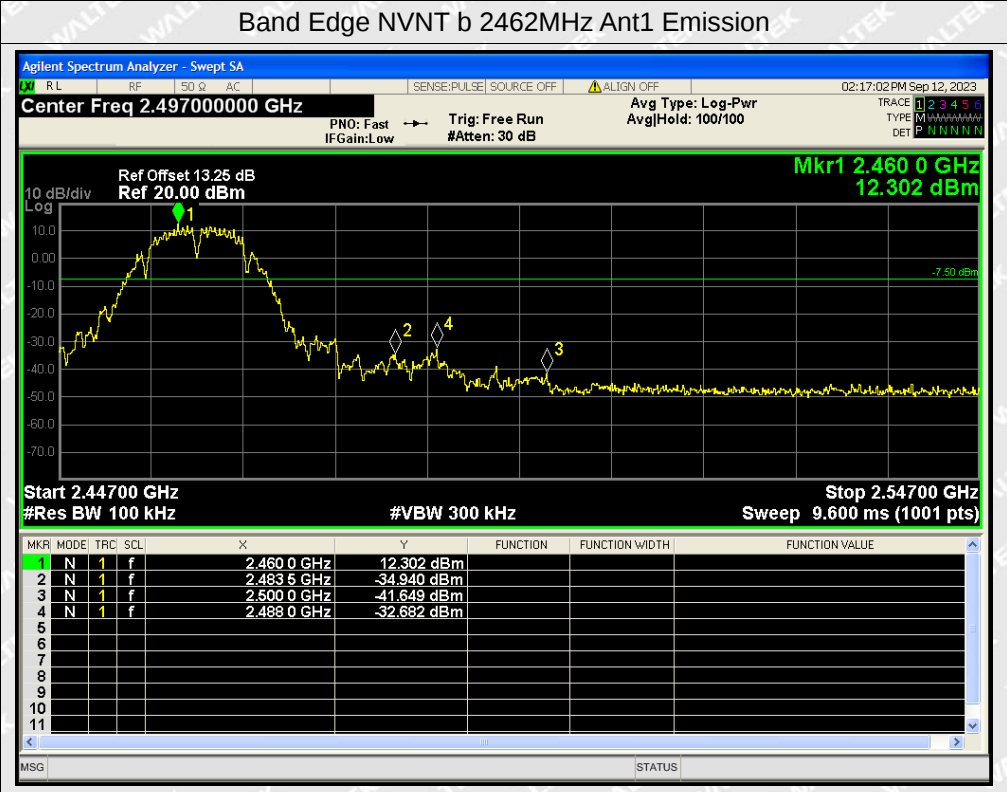
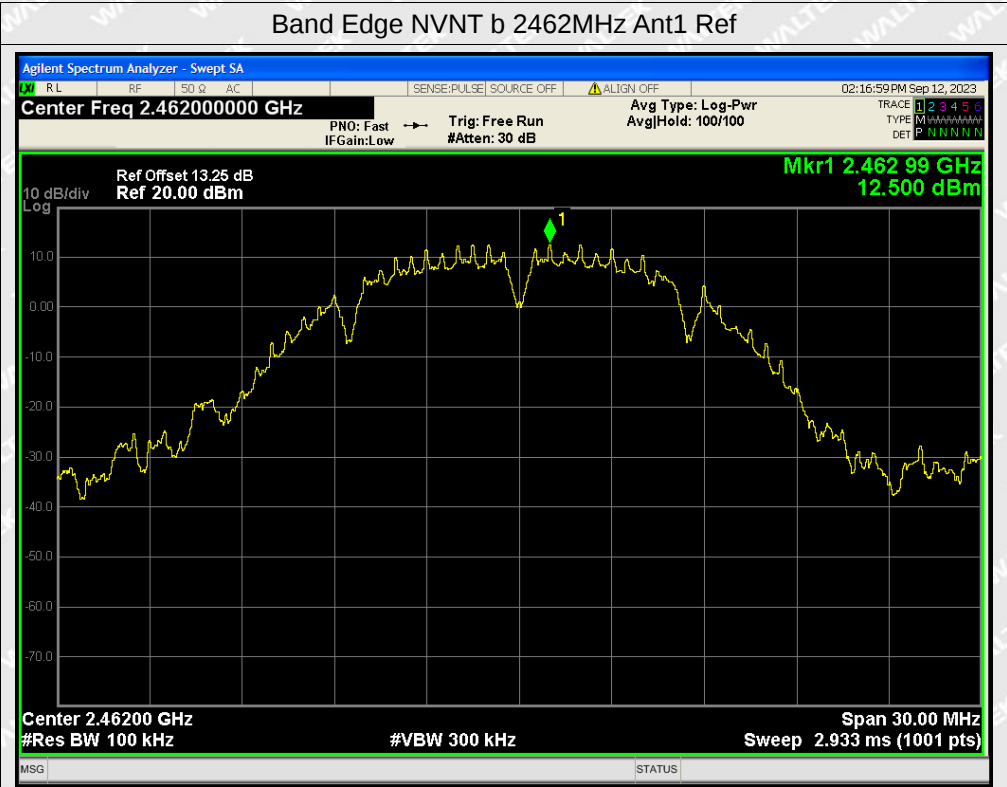
### Test Graphs

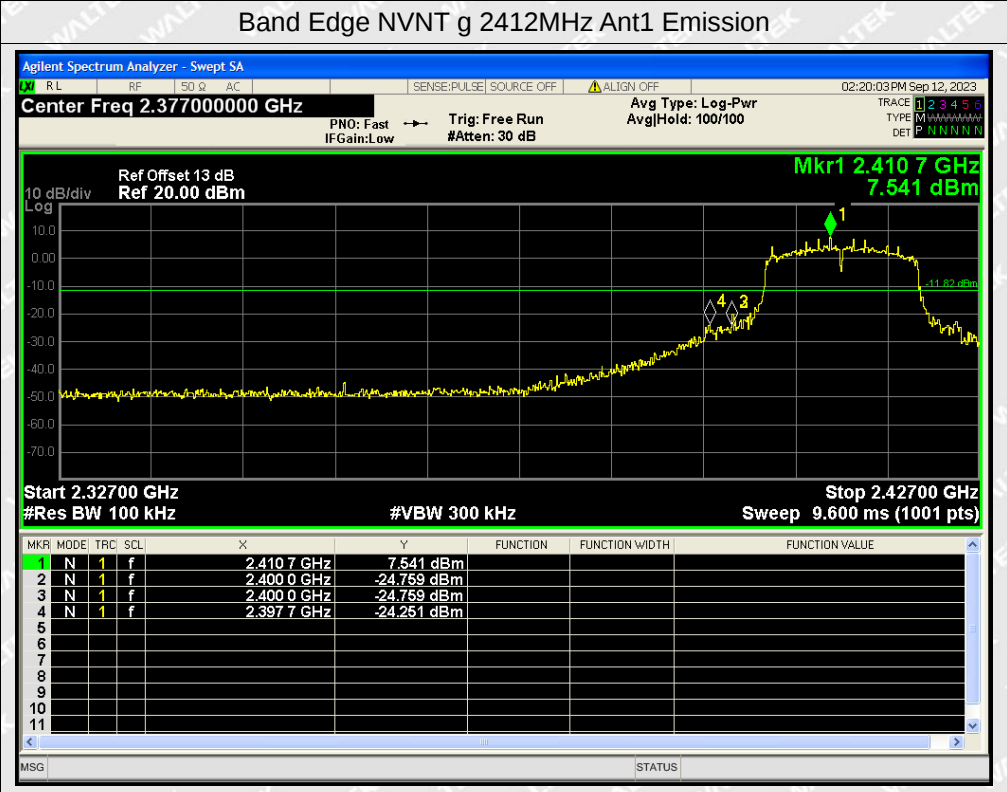
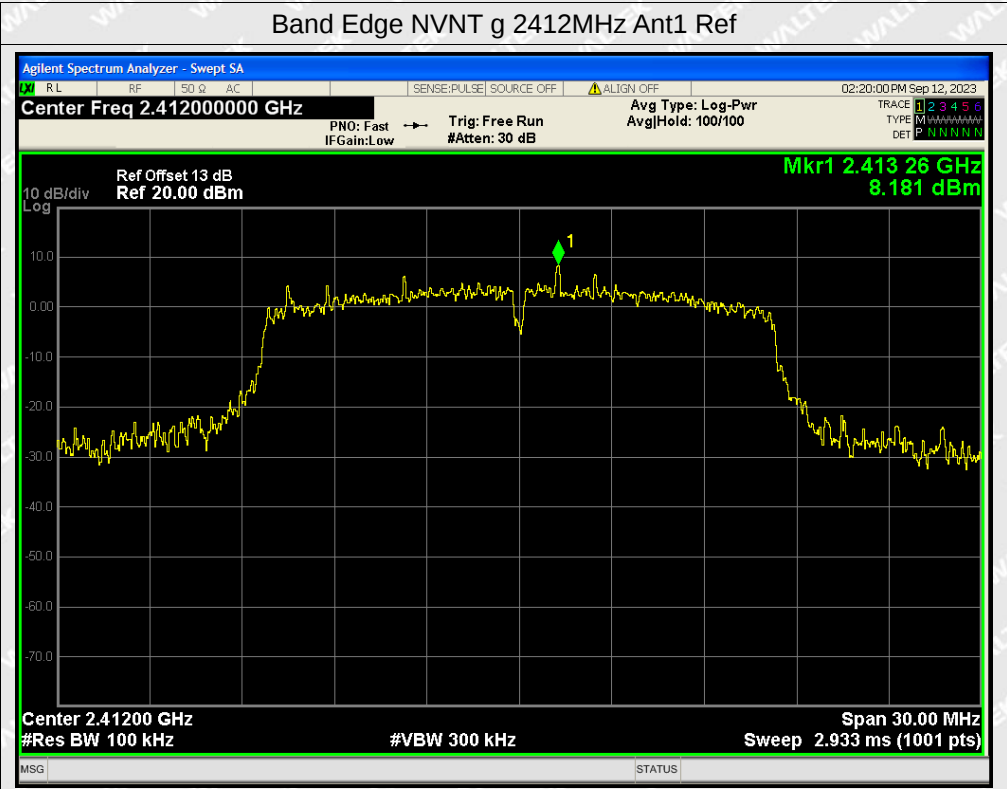
#### Band Edge NVNT b 2412MHz Ant1 Ref

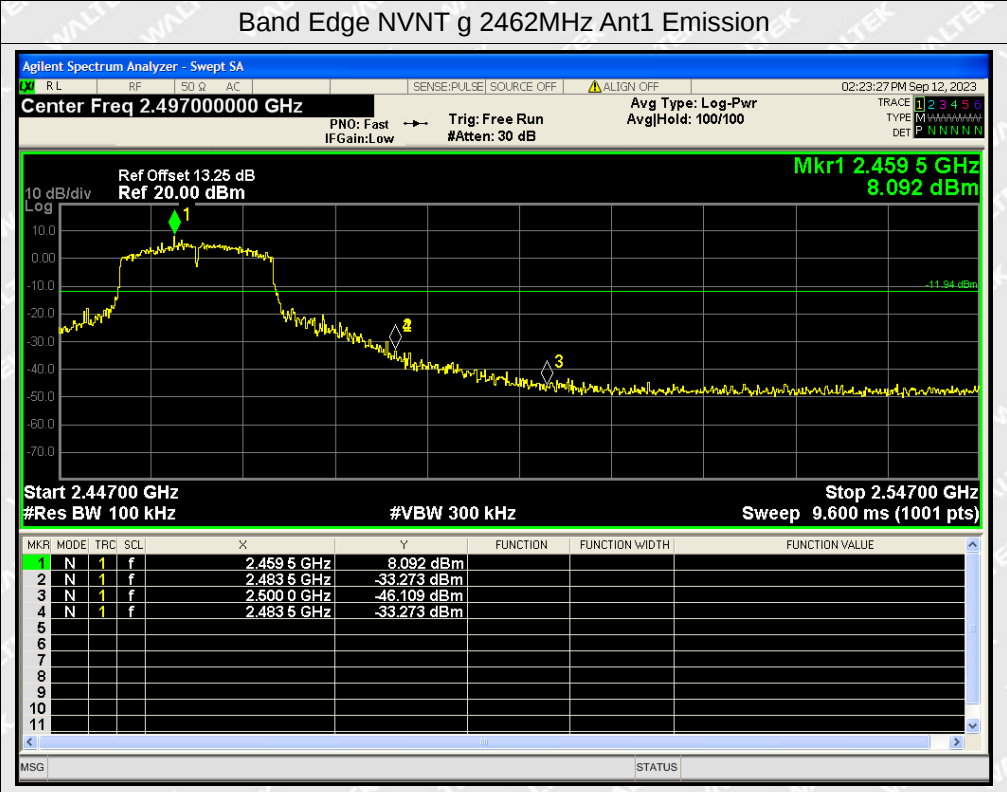
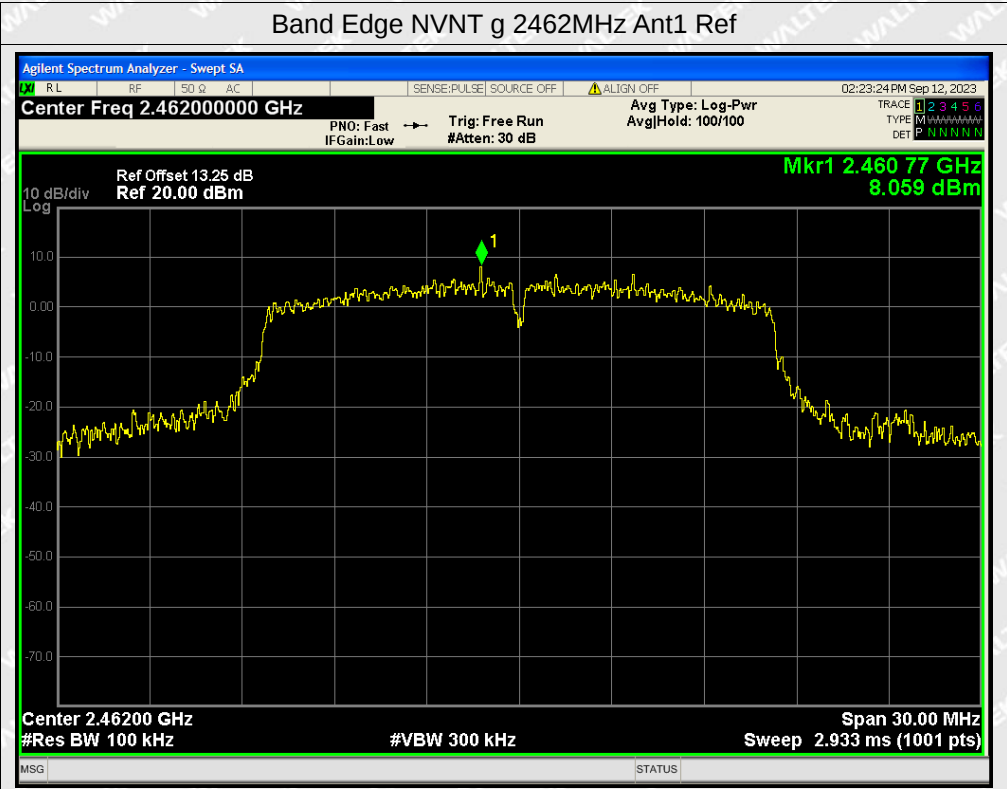


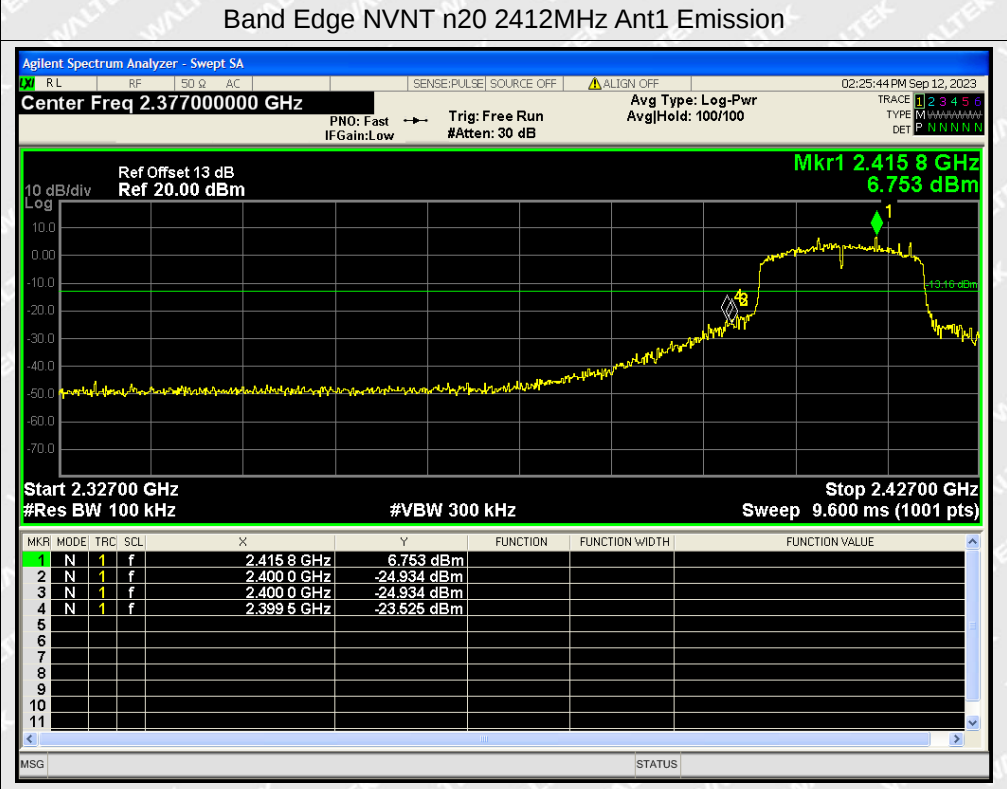
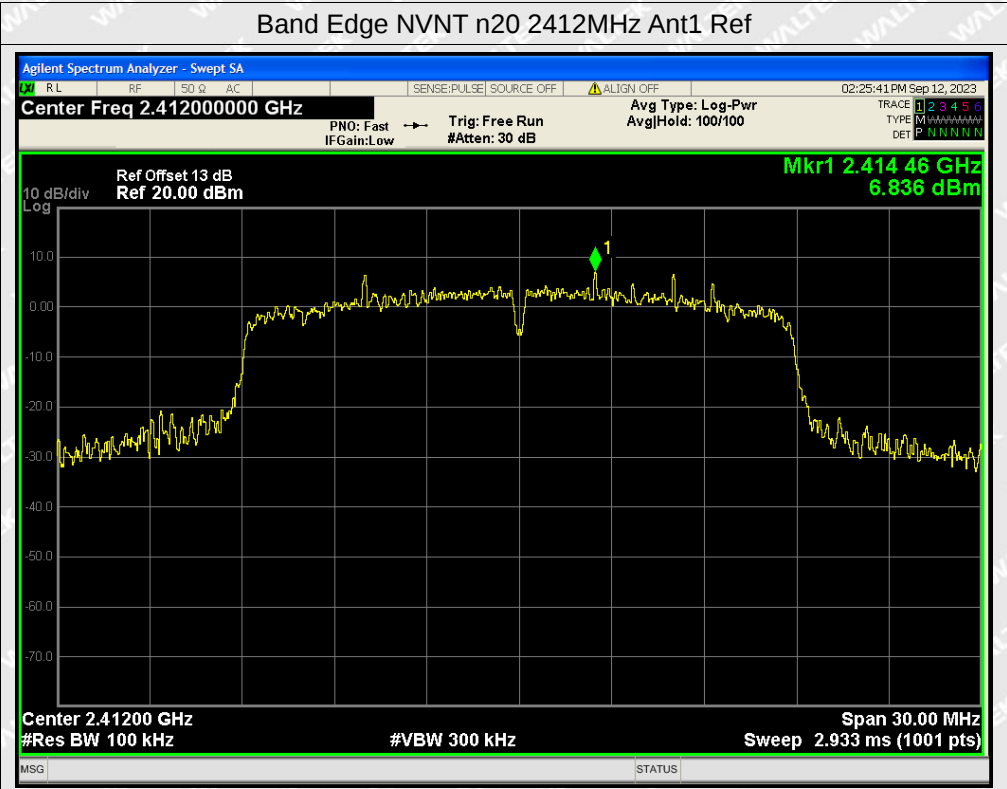
#### Band Edge NVNT b 2412MHz Ant1 Emission

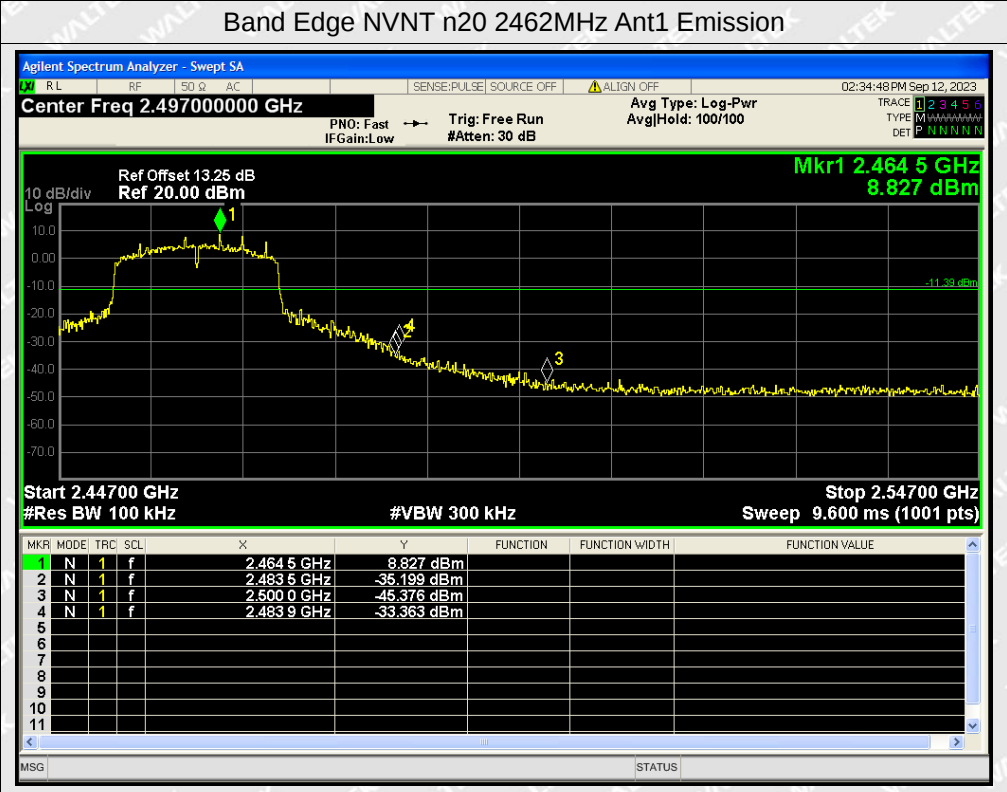
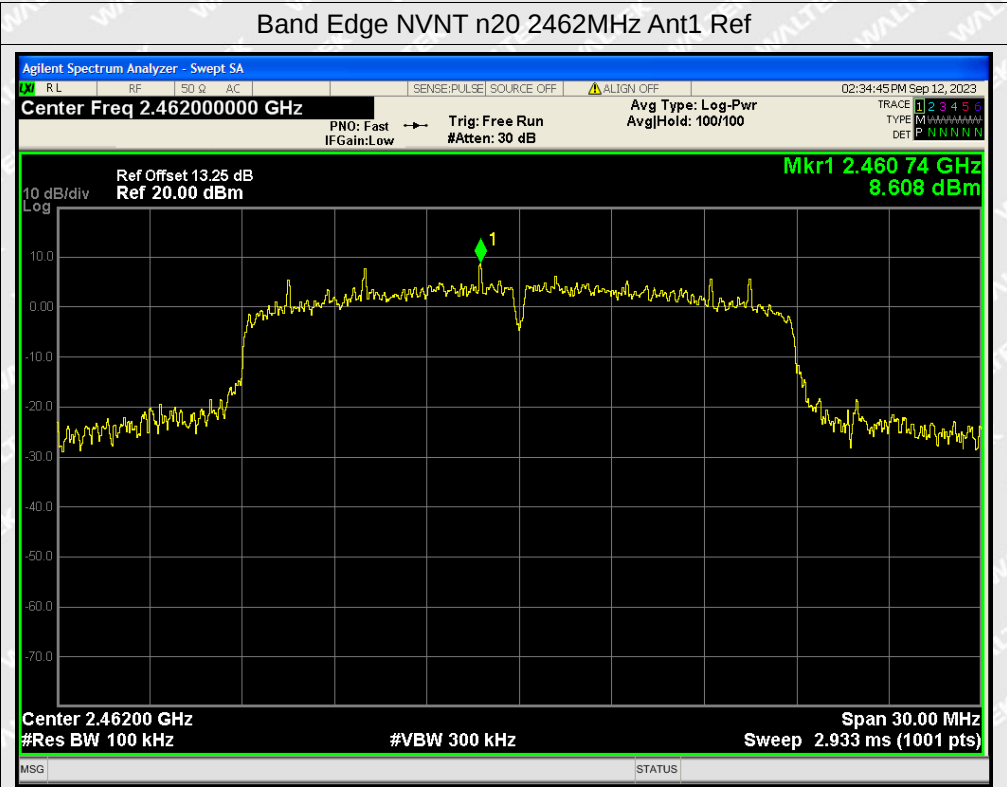






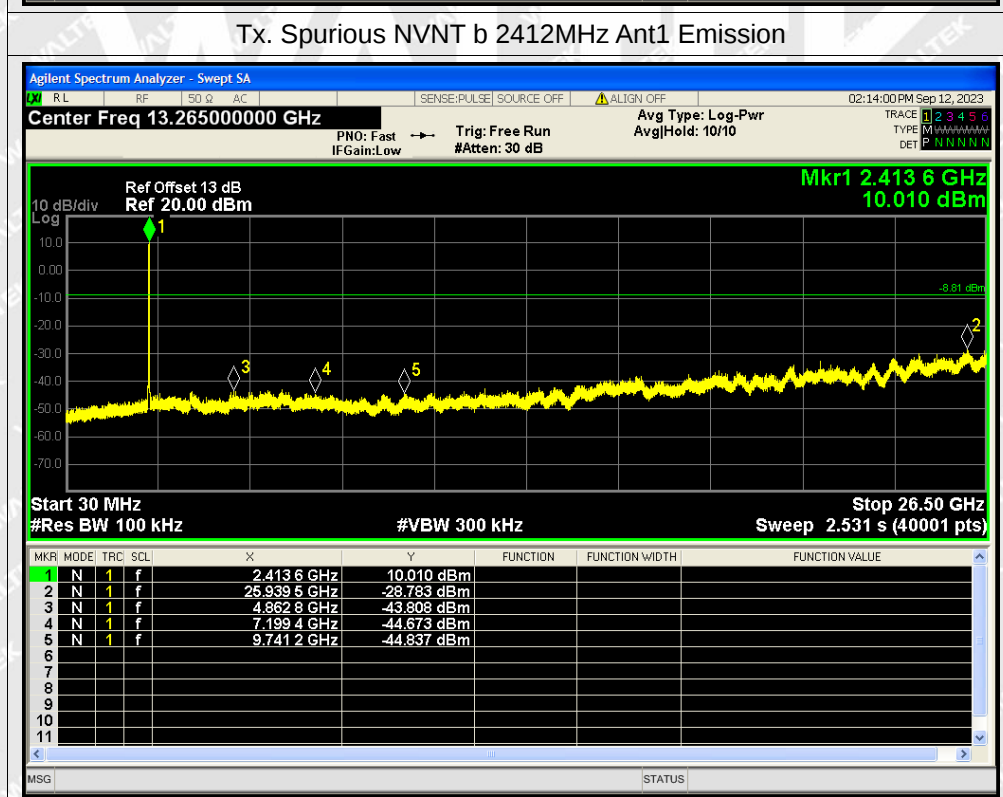
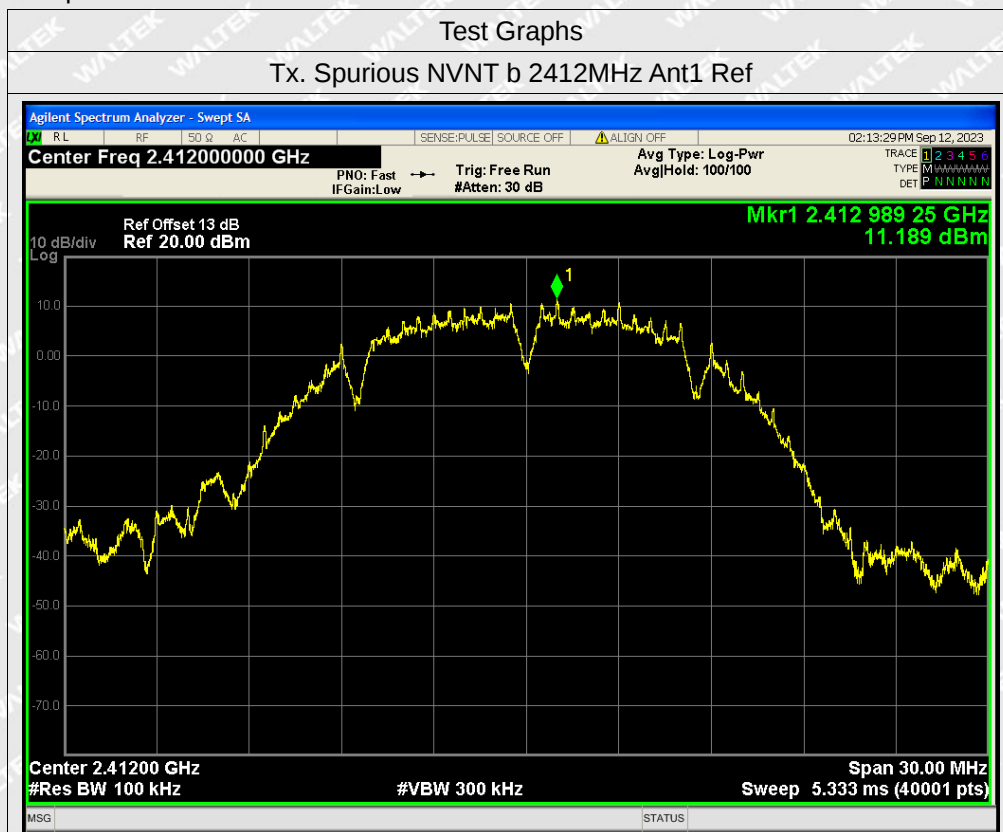


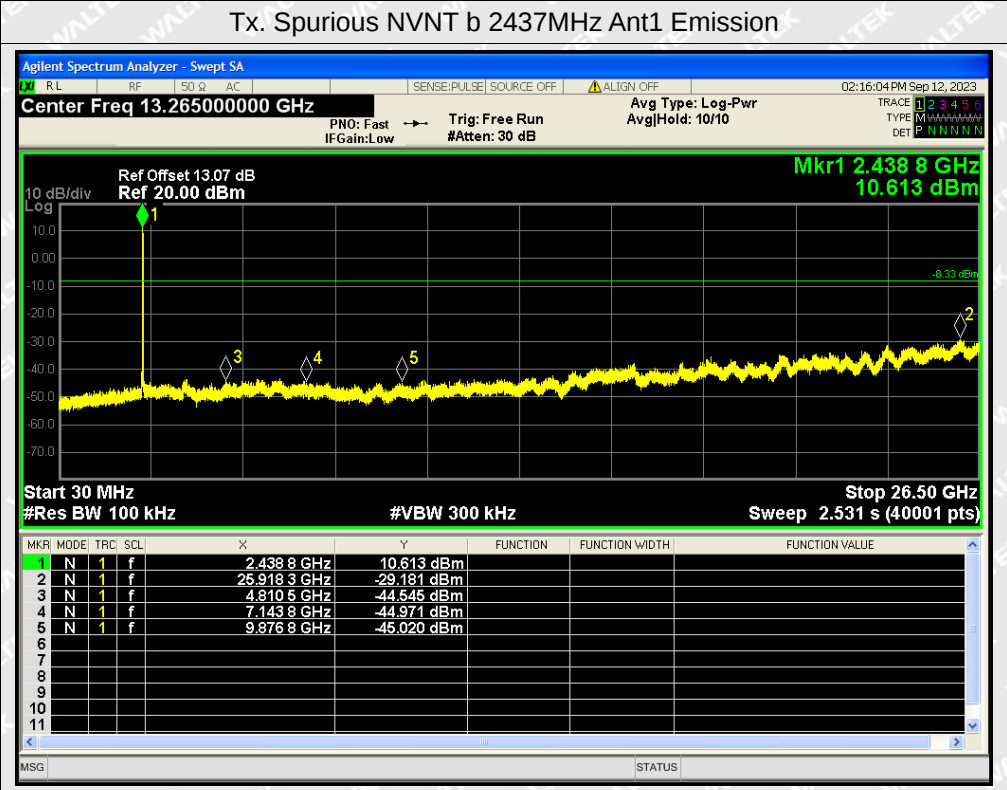
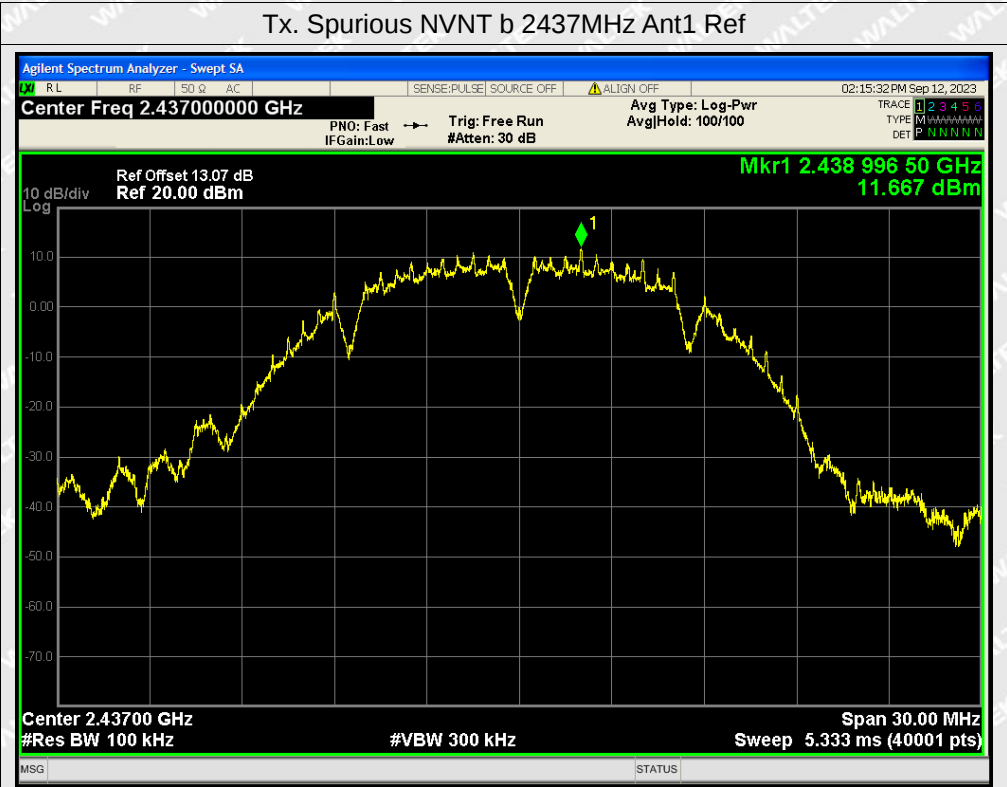


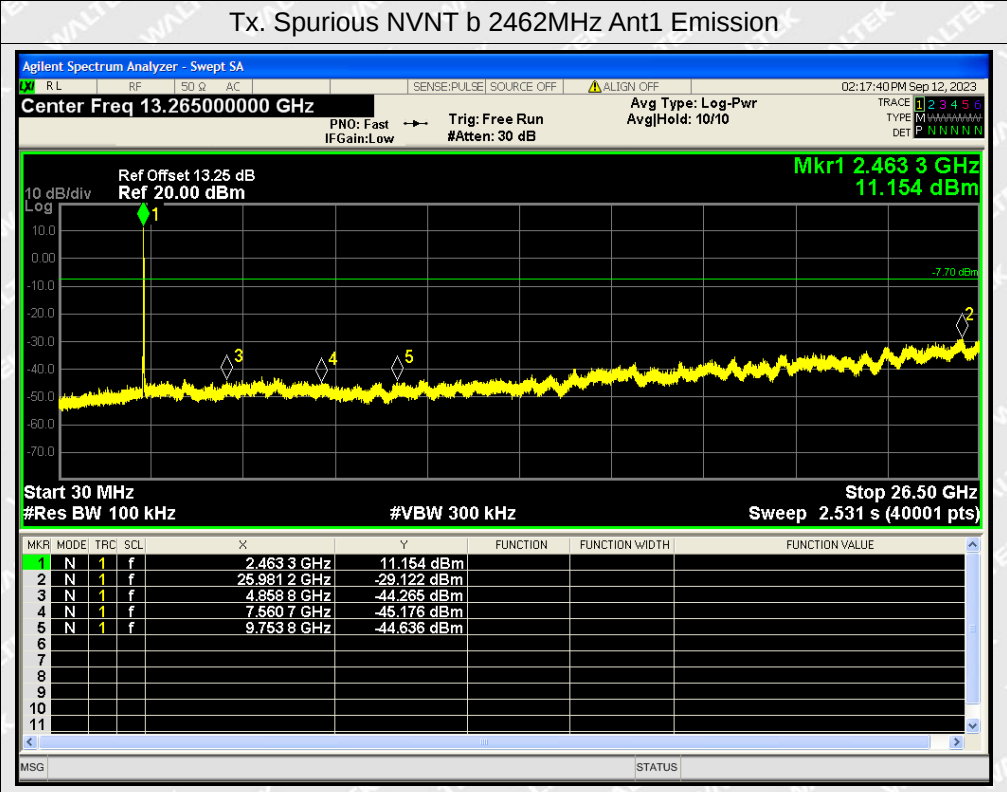
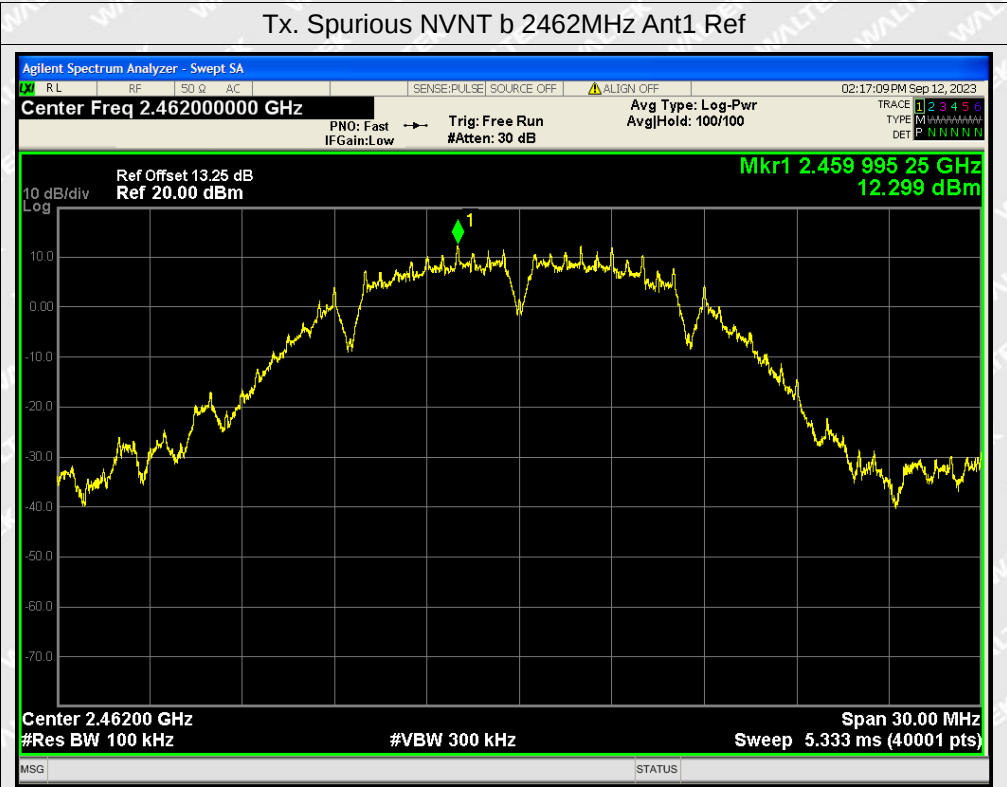


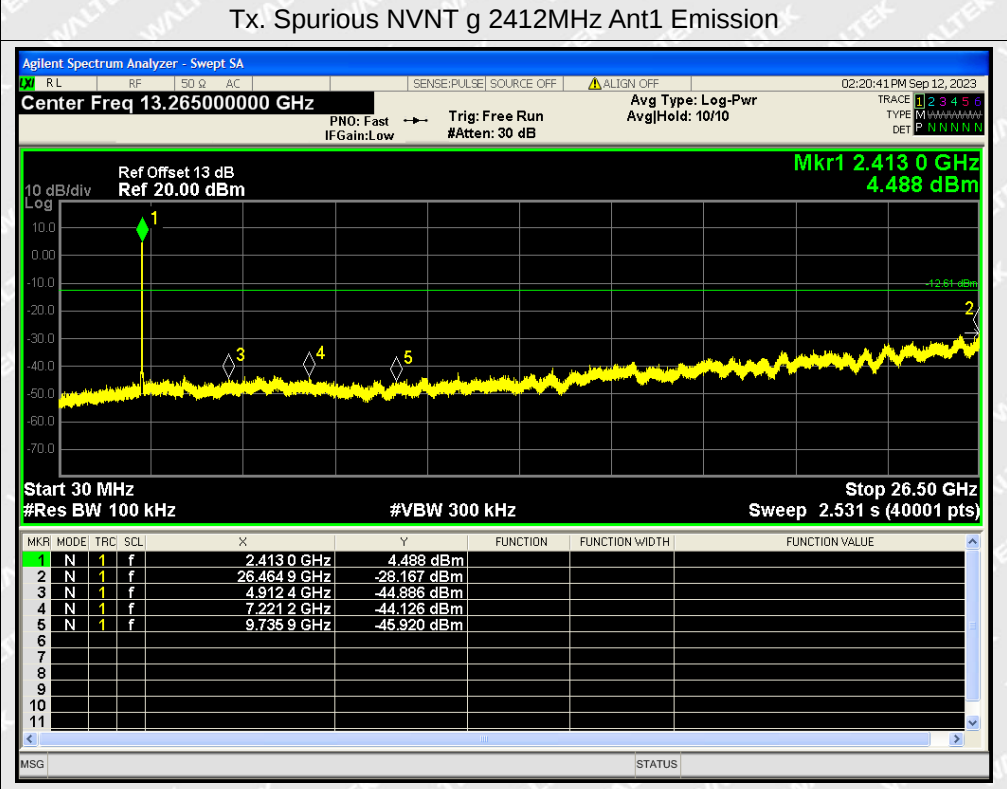
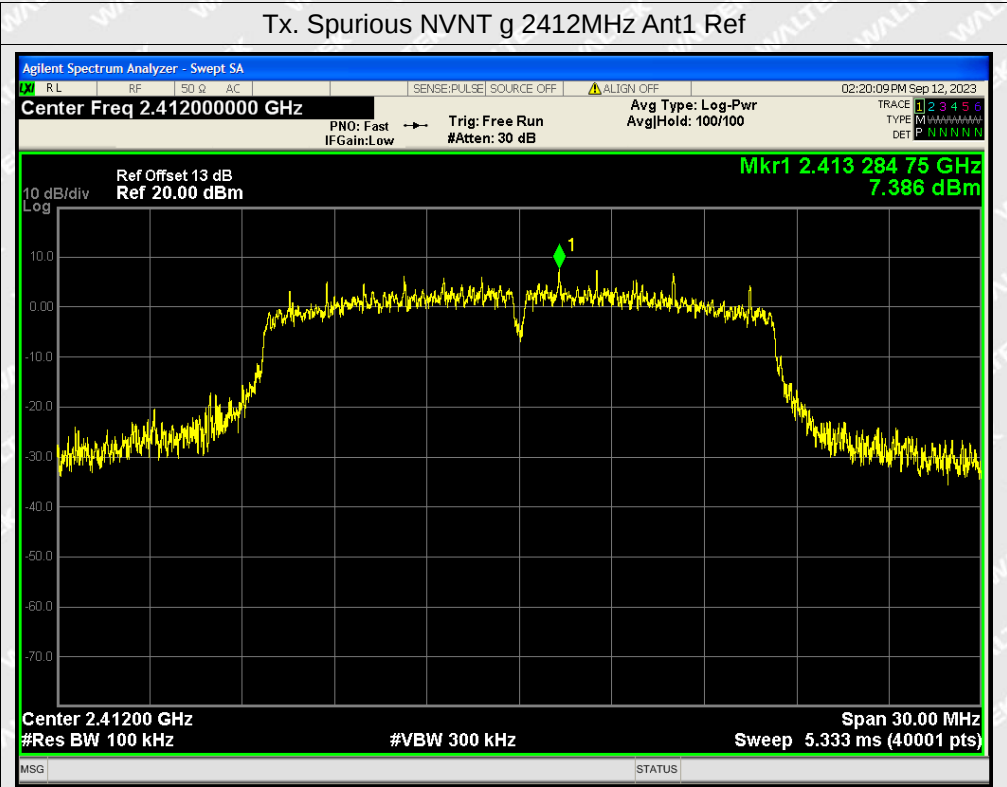


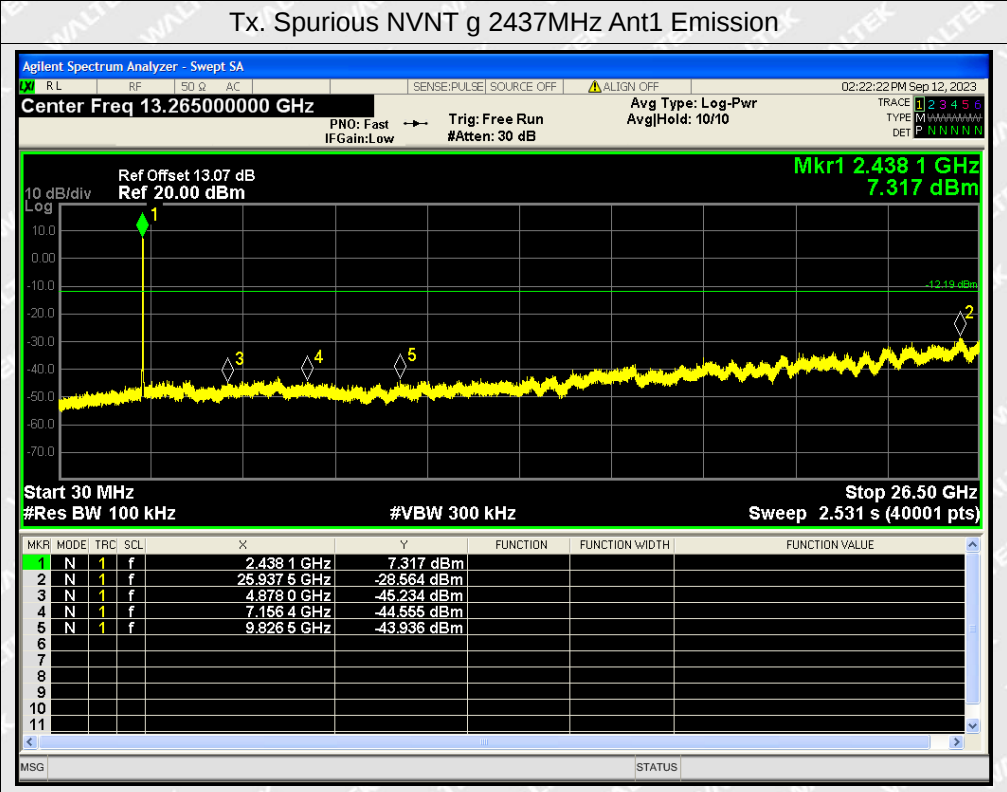
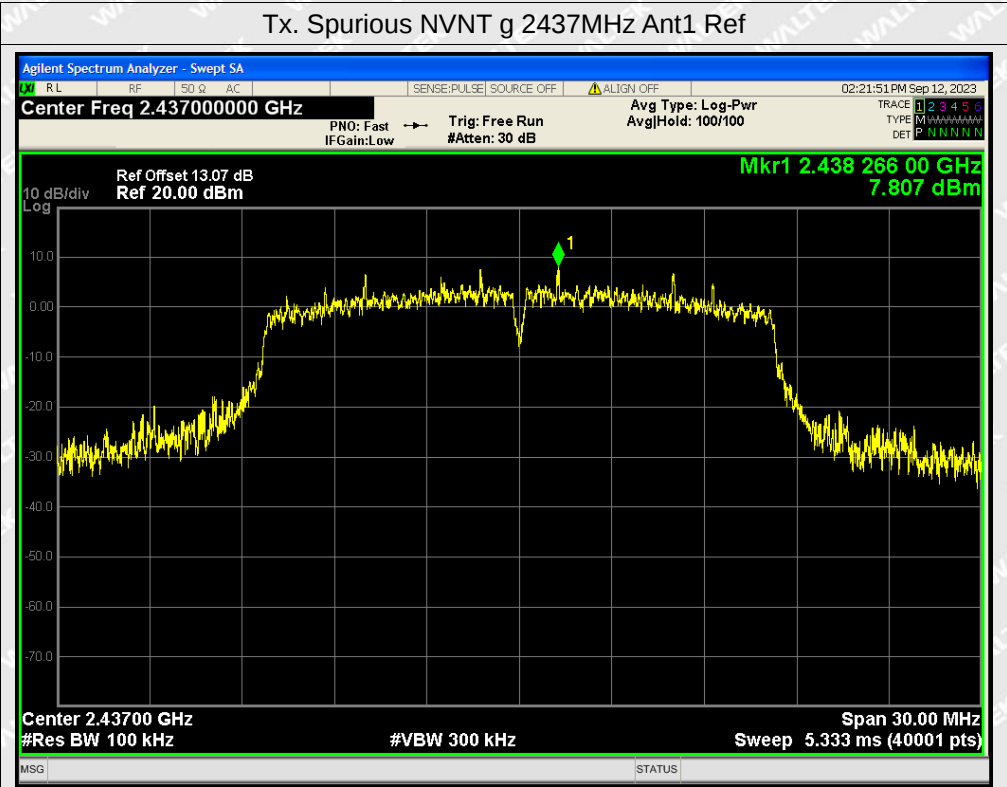
## Conducted RF Spurious Emission

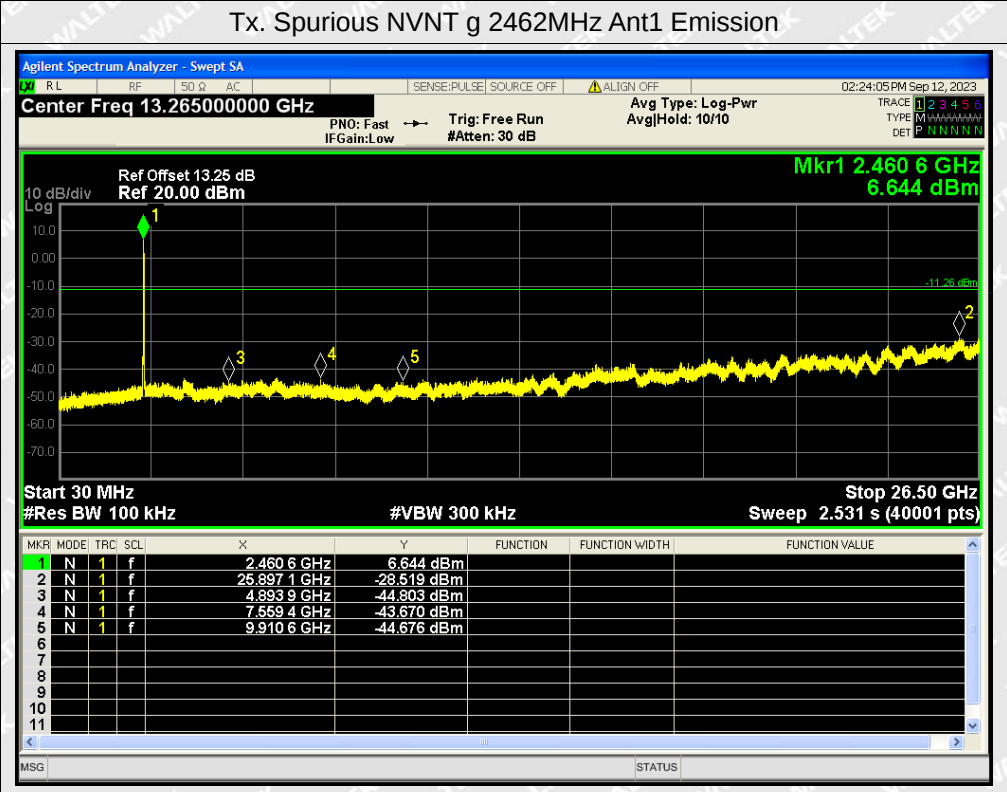
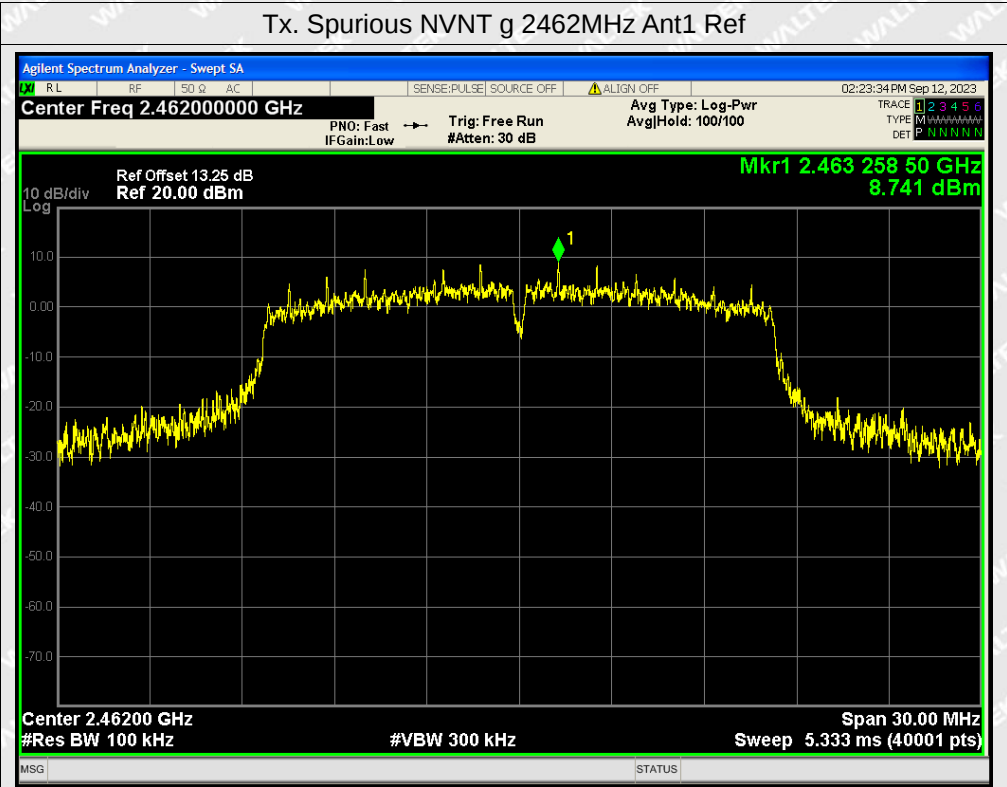


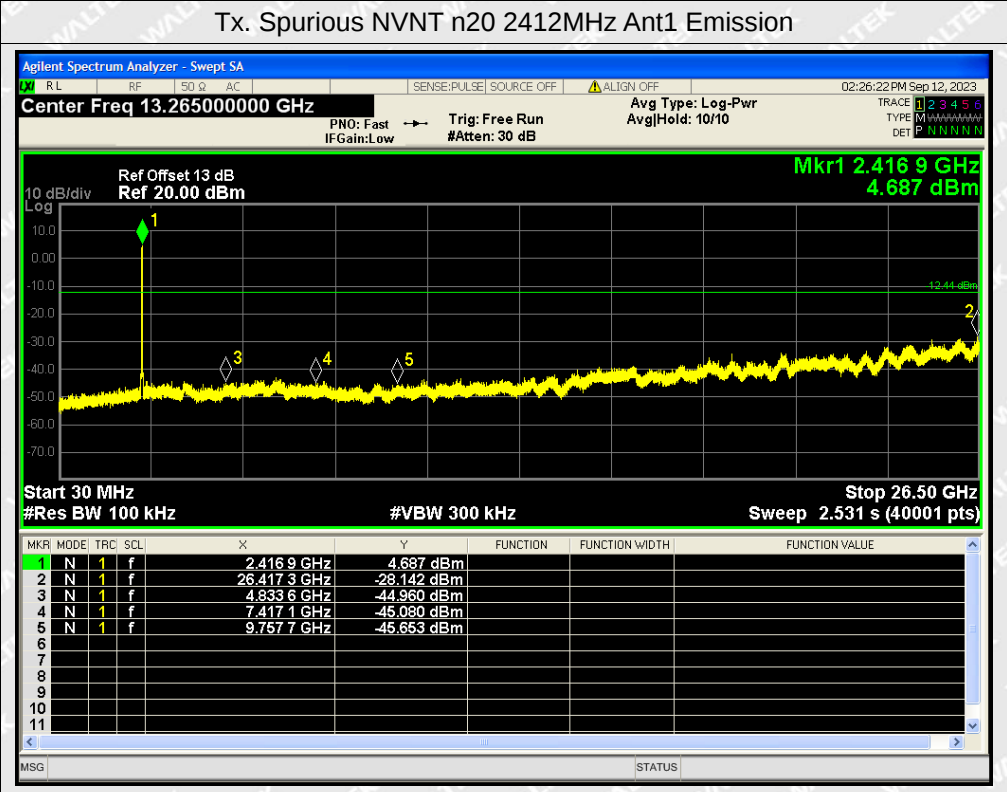
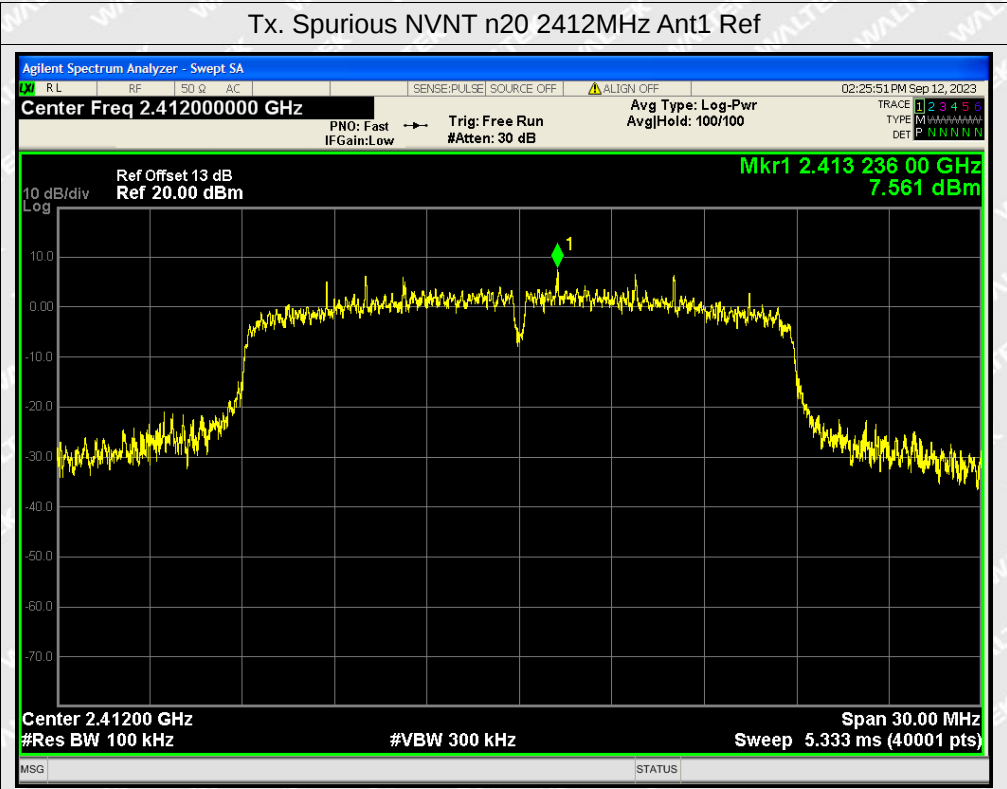


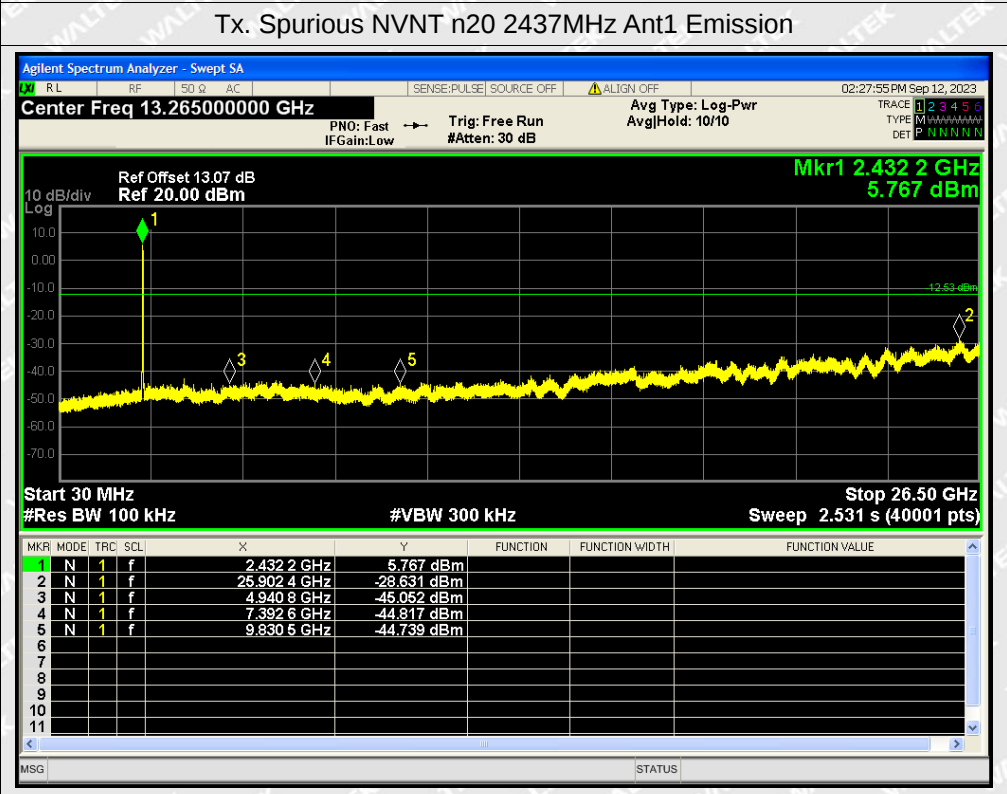
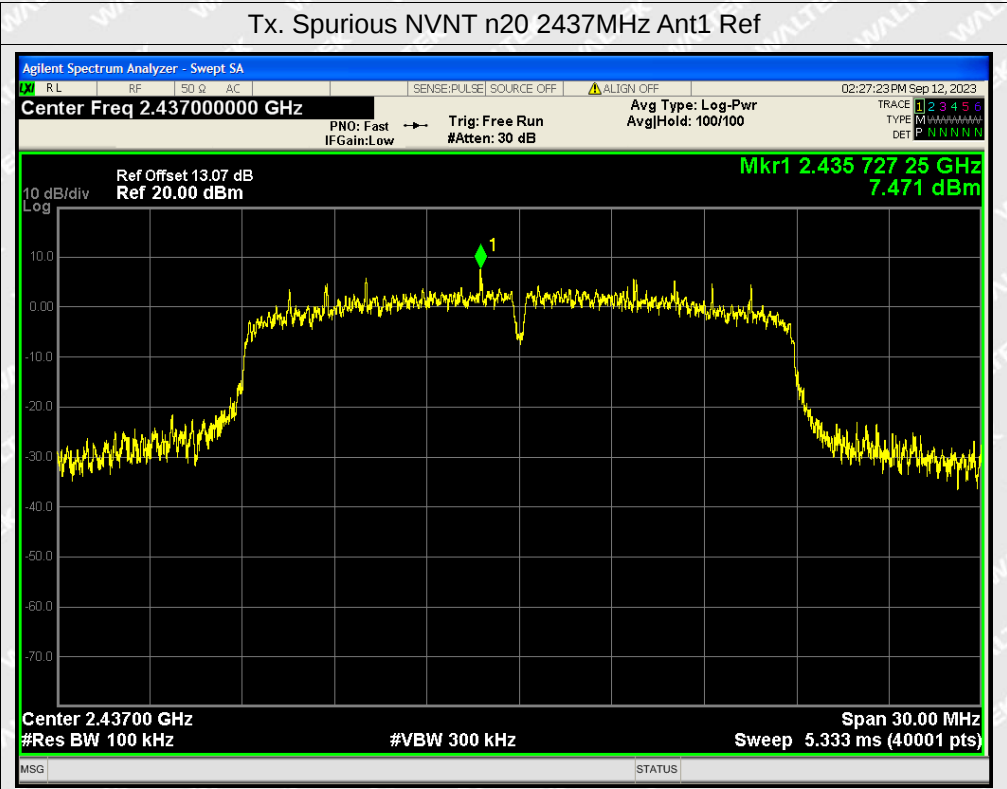






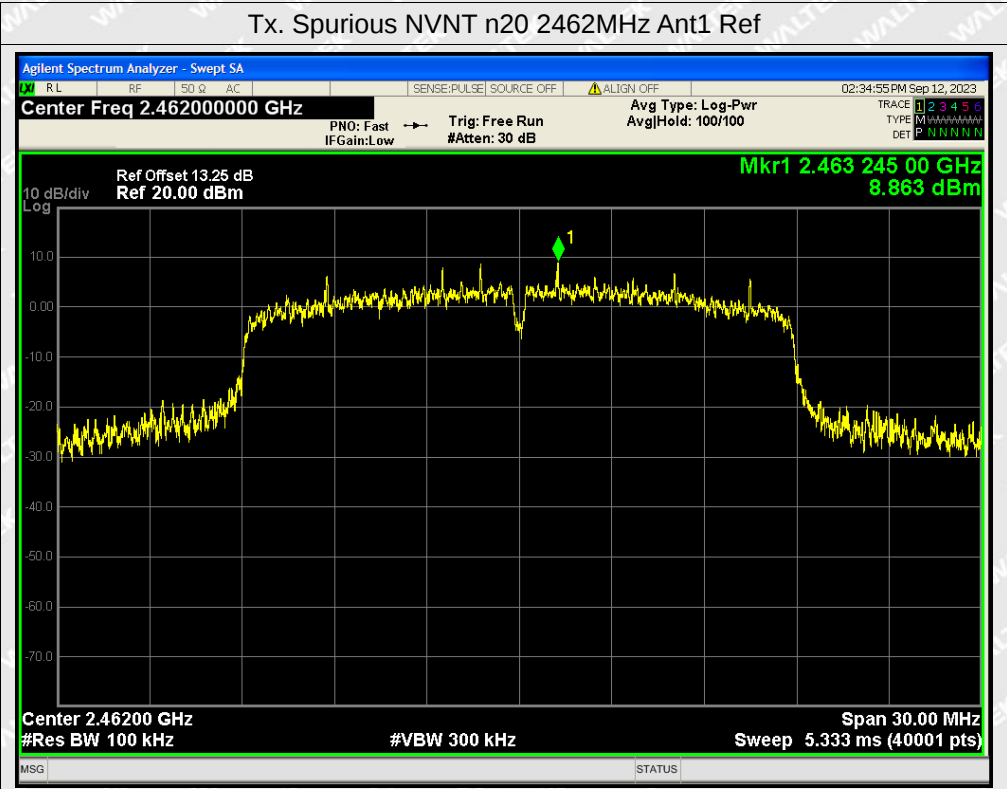




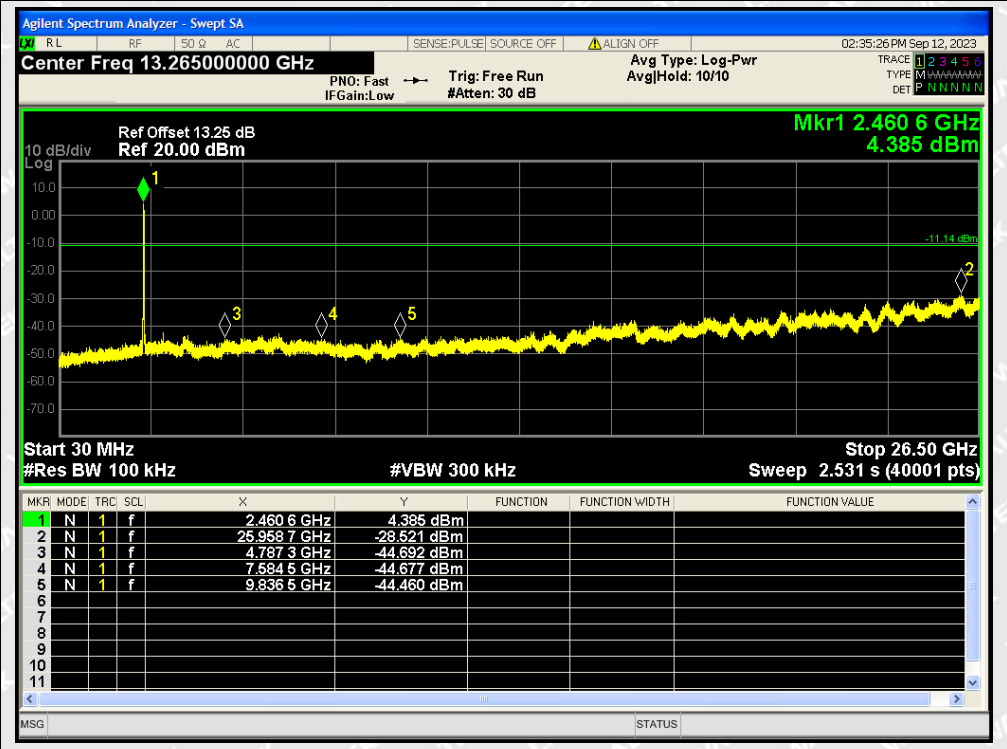




Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission





## TEST SETUP PHOTOGRAPHS

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Please refer to “ANNEX”

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

# WALTEK