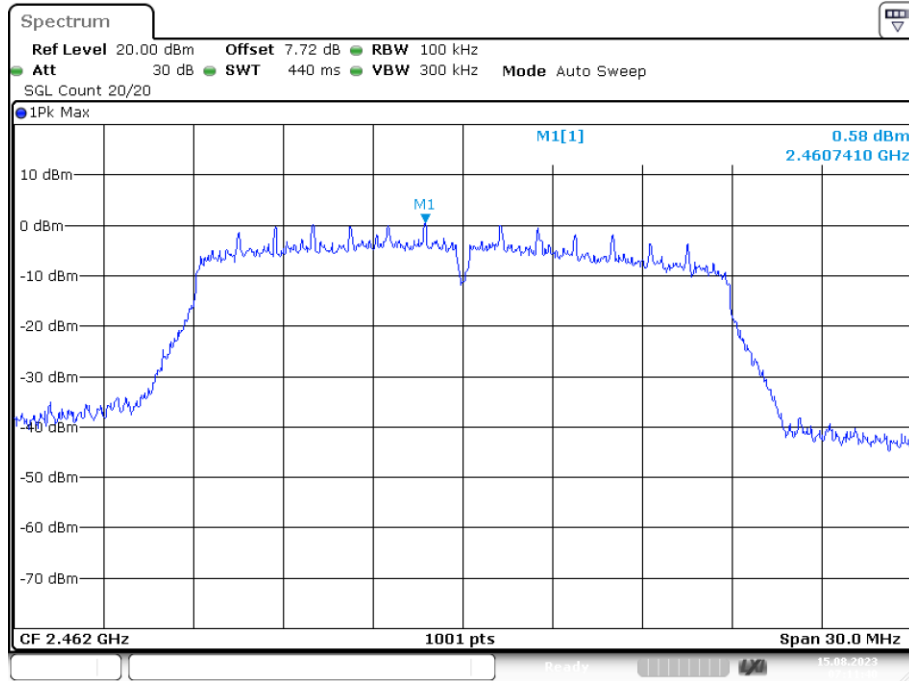
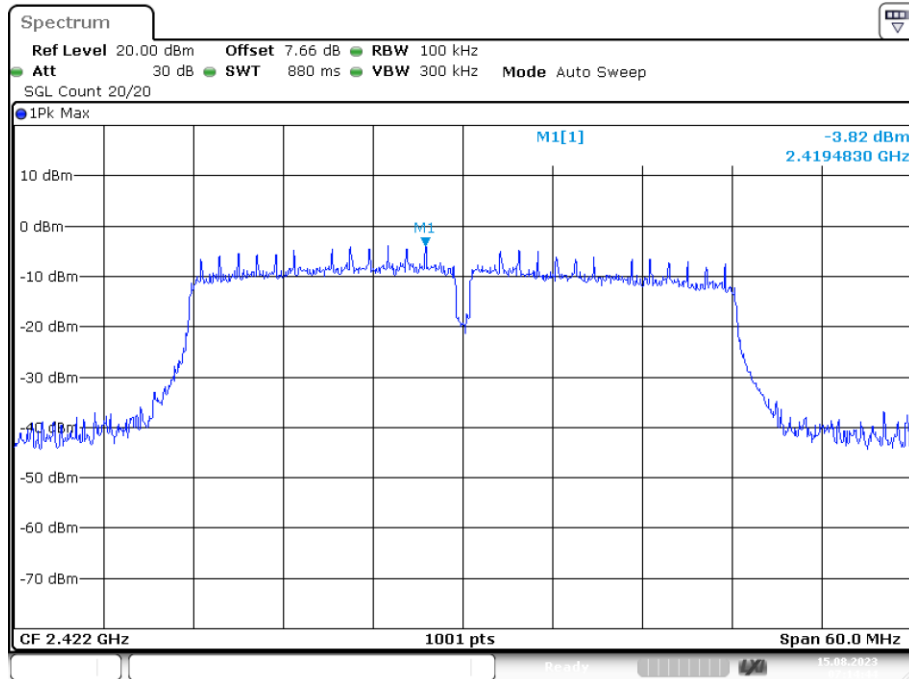


### PSD NVNT n20 2462MHz Ant1



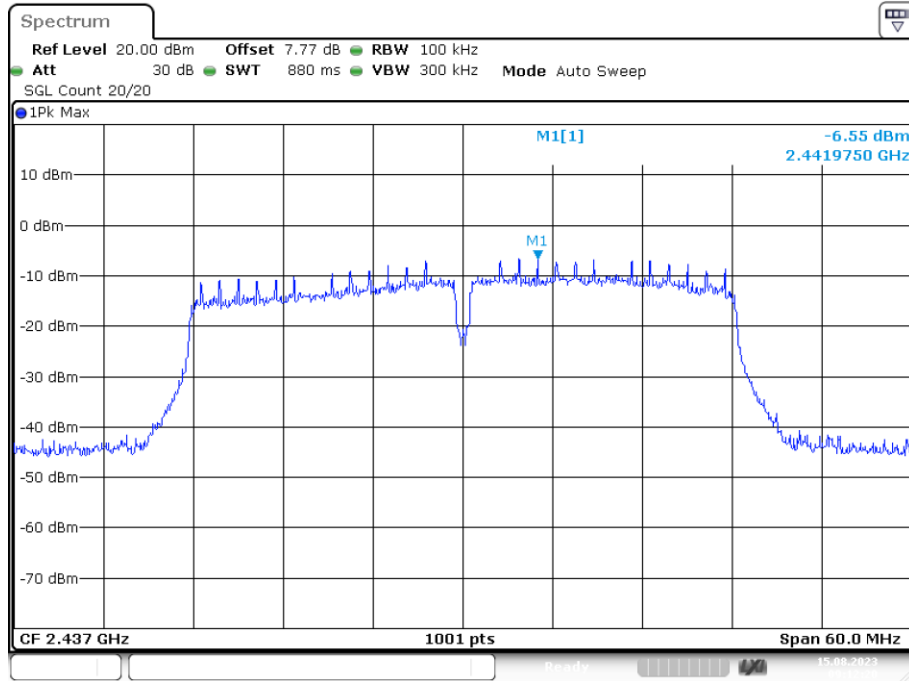
Date: 15.AUG.2023 07:11:40

### PSD NVNT n40 2422MHz Ant1



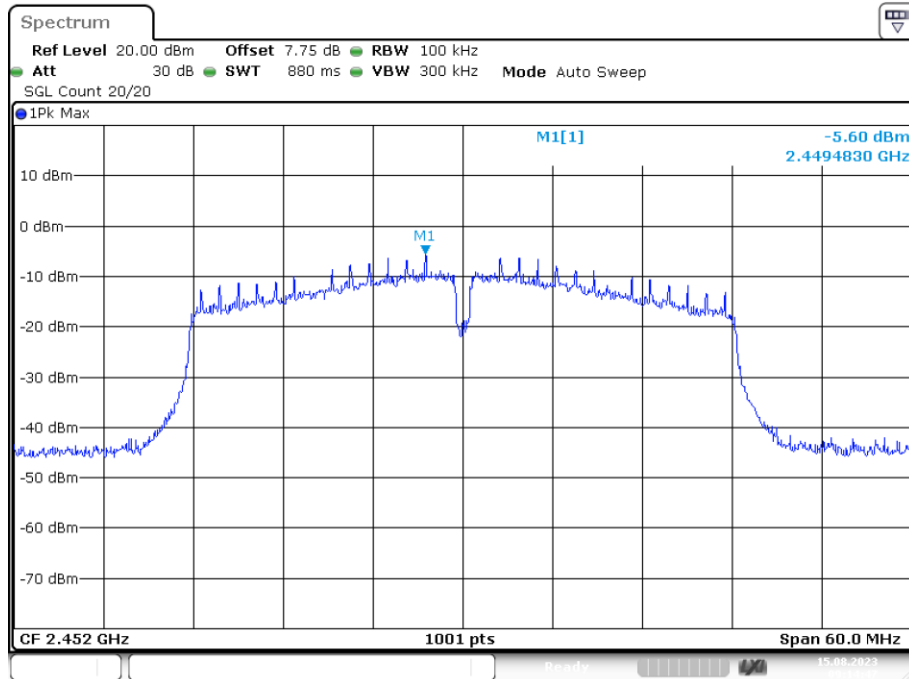
Date: 15.AUG.2023 07:14:44

### PSD NVNT n40 2437MHz Ant1



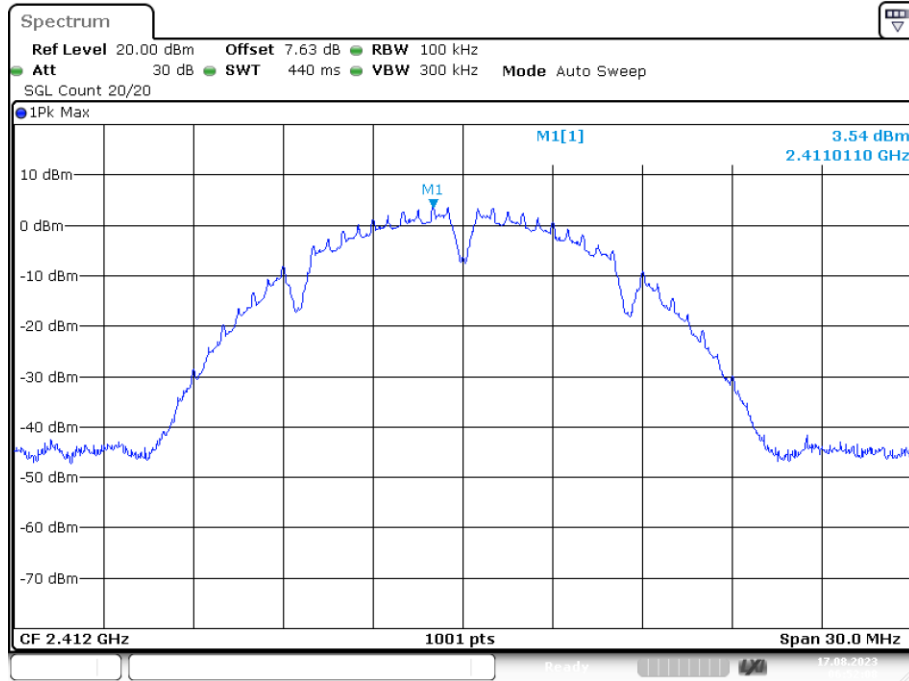
Date: 15.AUG.2023 09:12:20

### PSD NVNT n40 2452MHz Ant1



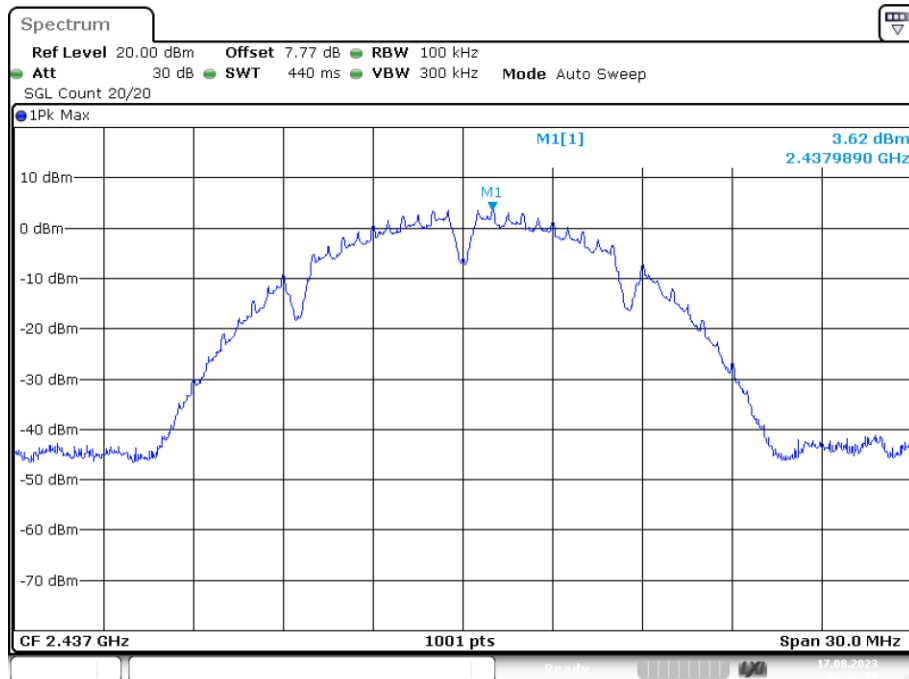
Date: 15.AUG.2023 09:14:47

### PSD NVNT b 2412MHz Ant2



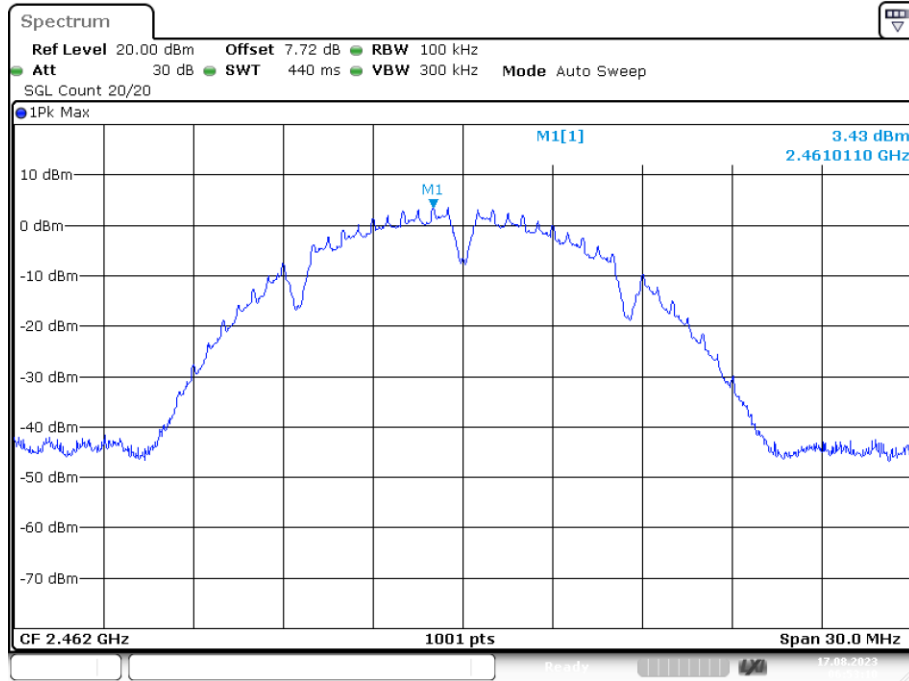
Date: 17.AUG.2023 06:52:08

### PSD NVNT b 2437MHz Ant2



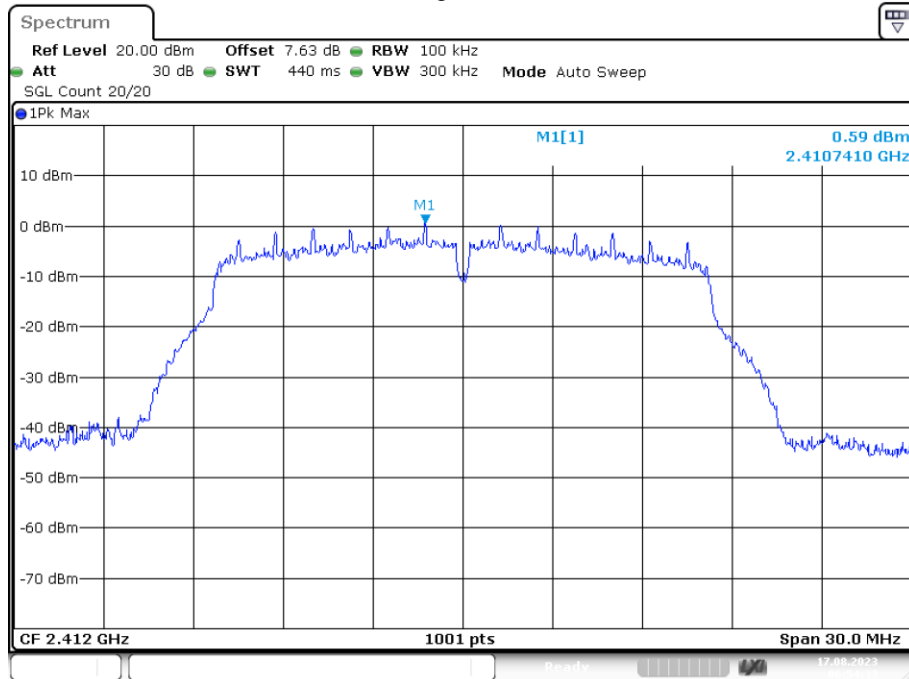
Date: 17.AUG.2023 06:52:38

### PSD NVNT b 2462MHz Ant2



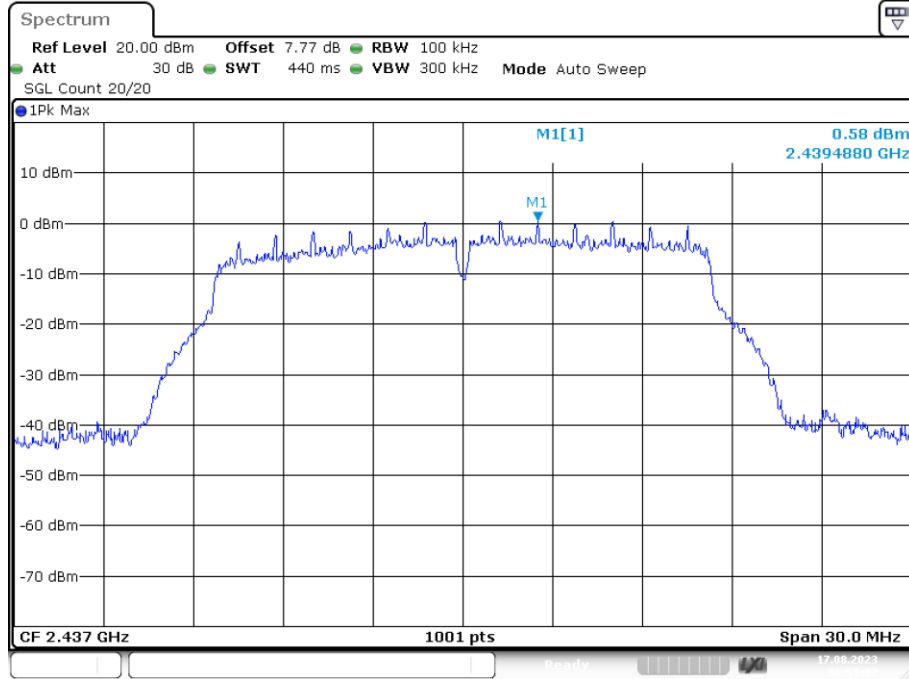
Date: 17.AUG.2023 06:53:09

### PSD NVNT g 2412MHz Ant2



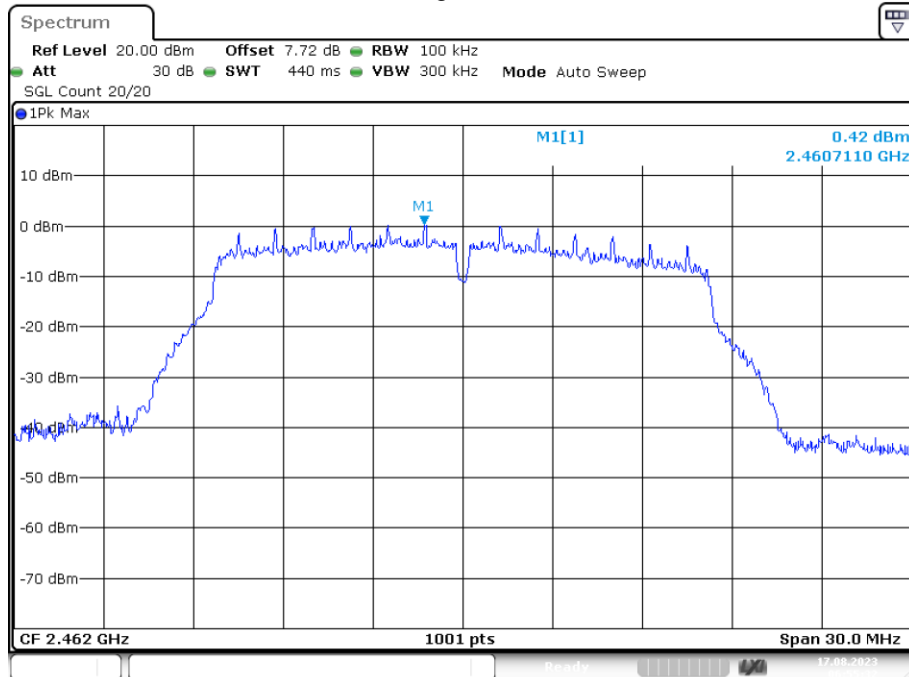
Date: 17.AUG.2023 06:54:33

### PSD NVNT g 2437MHz Ant2



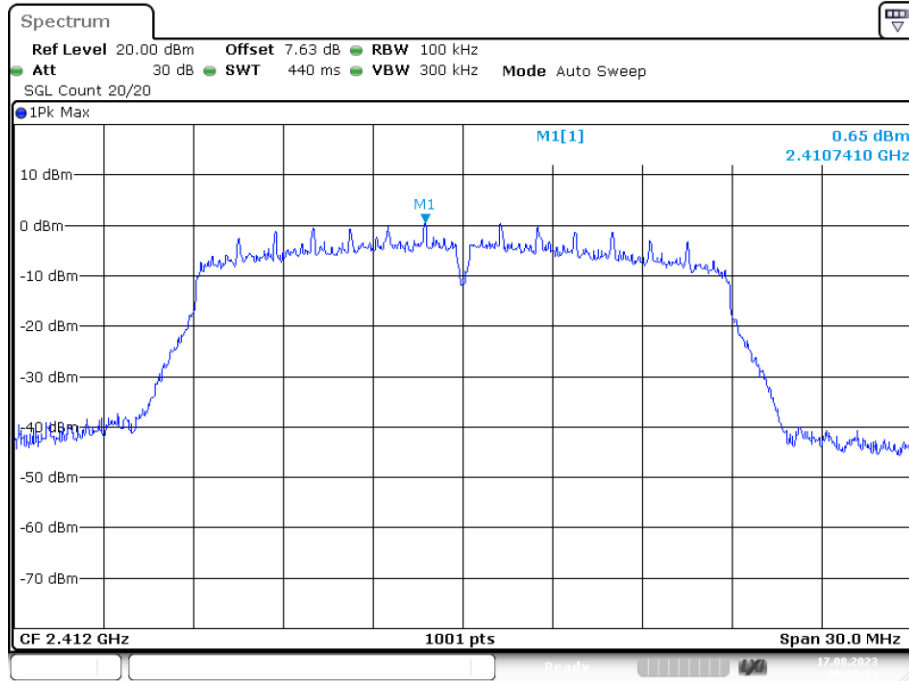
Date: 17.AUG.2023 06:55:02

### PSD NVNT g 2462MHz Ant2



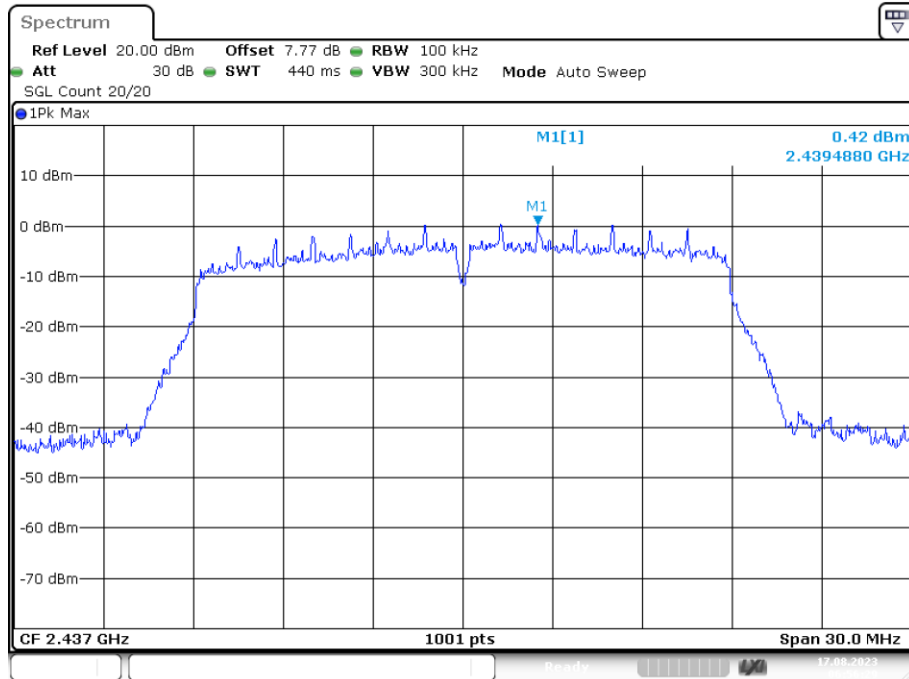
Date: 17.AUG.2023 06:55:31

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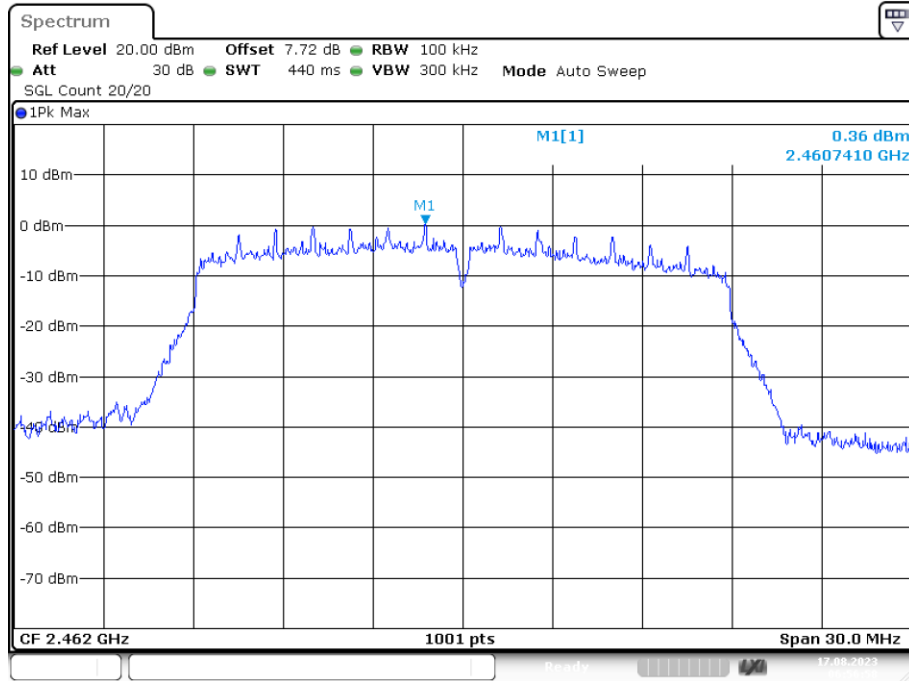
Date: 17.AUG.2023 06:56:00

### PSD NVNT n20 2437MHz Ant2



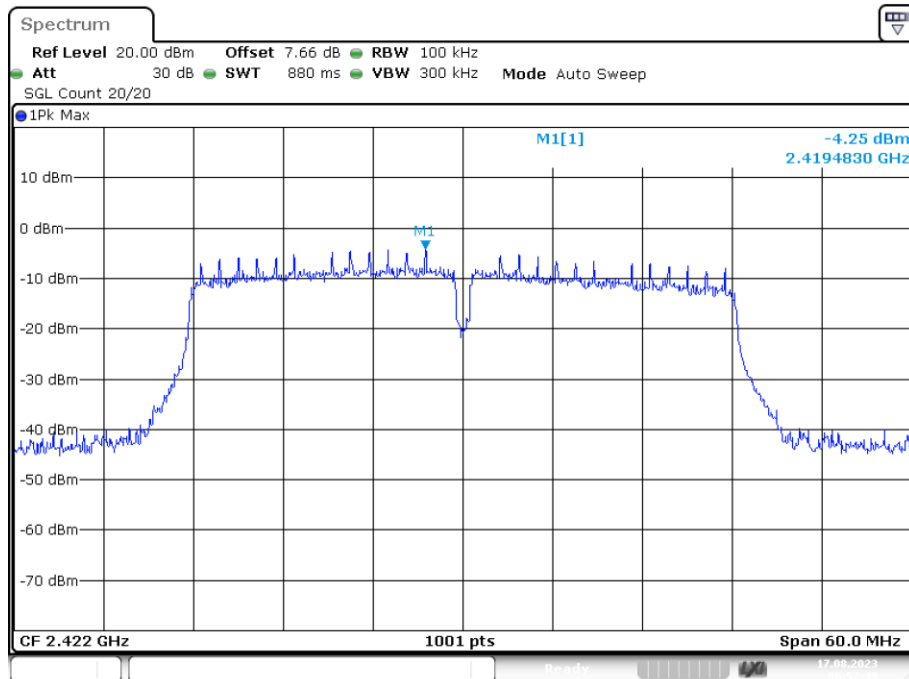
Date: 17.AUG.2023 06:56:29

### PSD NVNT n20 2462MHz Ant2



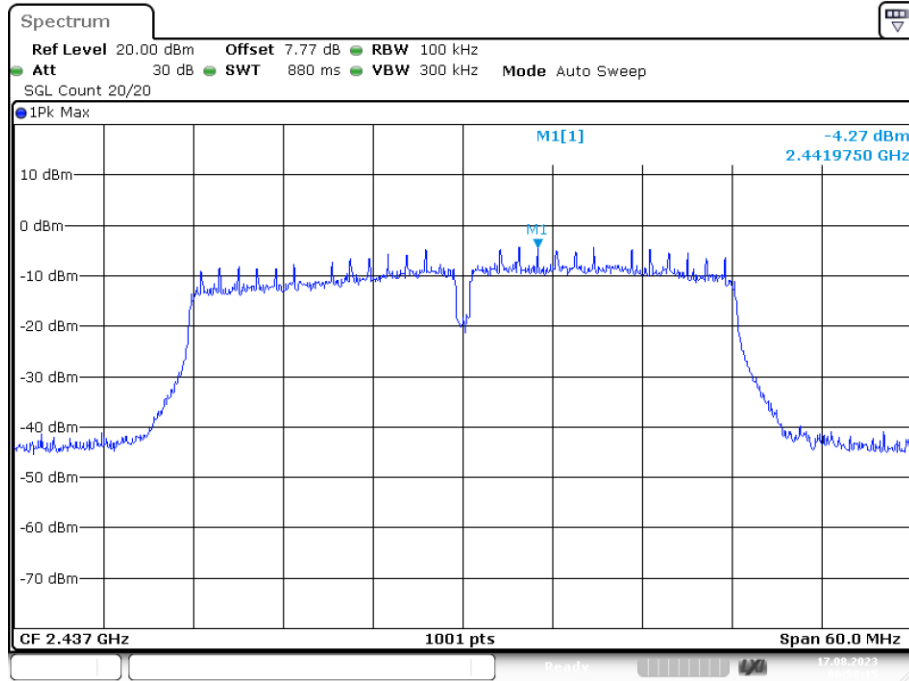
Date: 17.AUG.2023 06:56:58

### PSD NVNT n40 2422MHz Ant2



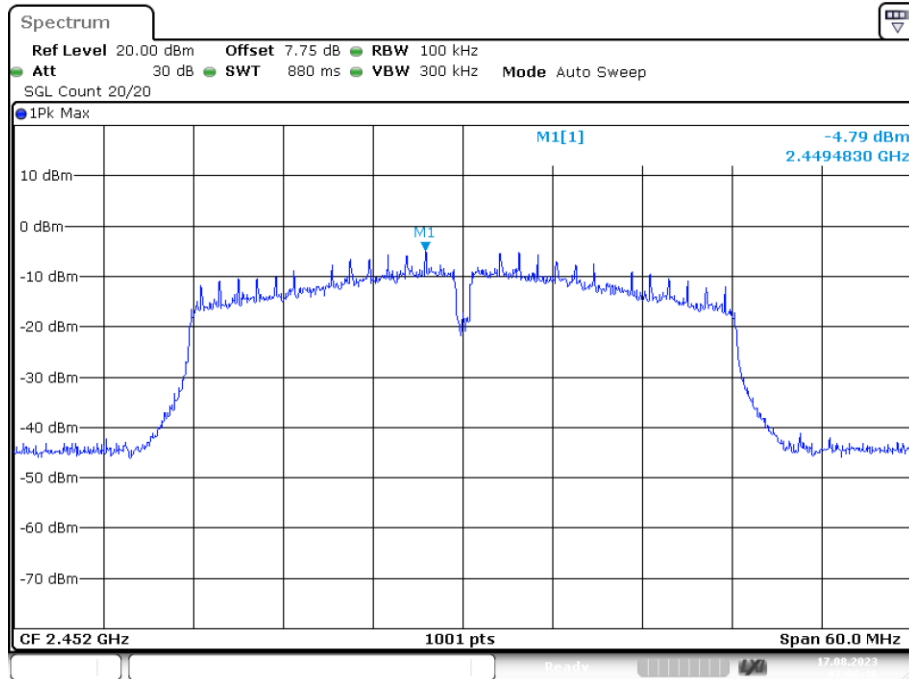
Date: 17.AUG.2023 06:57:39

### PSD NVNT n40 2437MHz Ant2



Date: 17.AUG.2023 06:58:15

### PSD NVNT n40 2452MHz Ant2



Date: 17.AUG.2023 07:00:35



## 7. Bandwidth

### 7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247

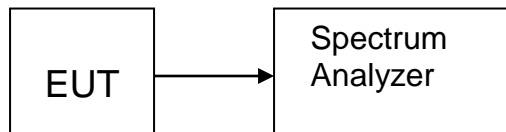
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

### 7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

- a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 100kHz, VBW $\geq$ 3\*RBW =300kHz,, Peak Detector, Sweep time set auto, detail see the test plot.

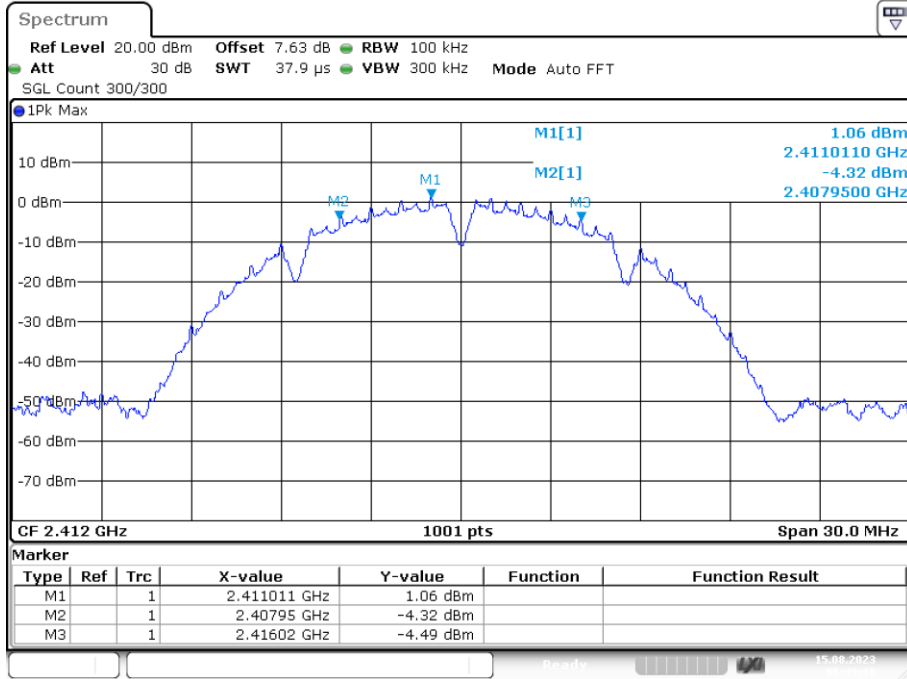
### 7.3. Test Setup



### 7.4. Test Results

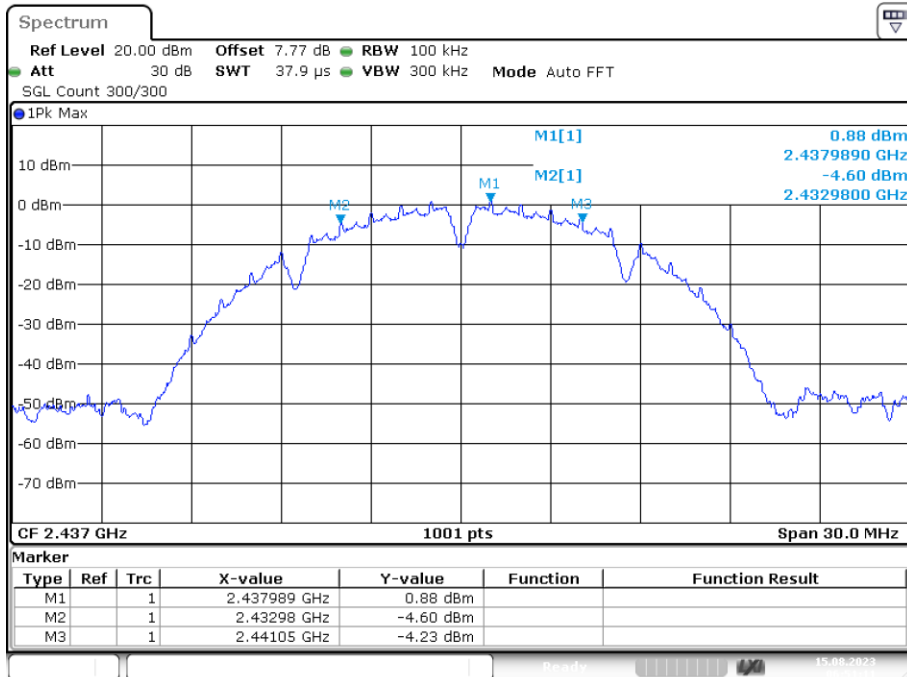
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|---------------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant 1   | 12.707        | 8.07                  | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant 1   | 12.797        | 8.07                  | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant 1   | 12.767        | 8.07                  | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant 1   | 16.394        | 15.06                 | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant 1   | 16.424        | 13.56                 | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant 1   | 16.424        | 13.14                 | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant 1   | 17.562        | 16.32                 | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant 1   | 17.562        | 17.22                 | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant 1   | 17.502        | 16.35                 | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant 1   | 36.144        | 35.4                  | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant 1   | 36.144        | 35.76                 | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant 1   | 35.604        | 23.88                 | 0.5                         | Pass    |

-6dB Bandwidth NVNT b 2412MHz Ant1



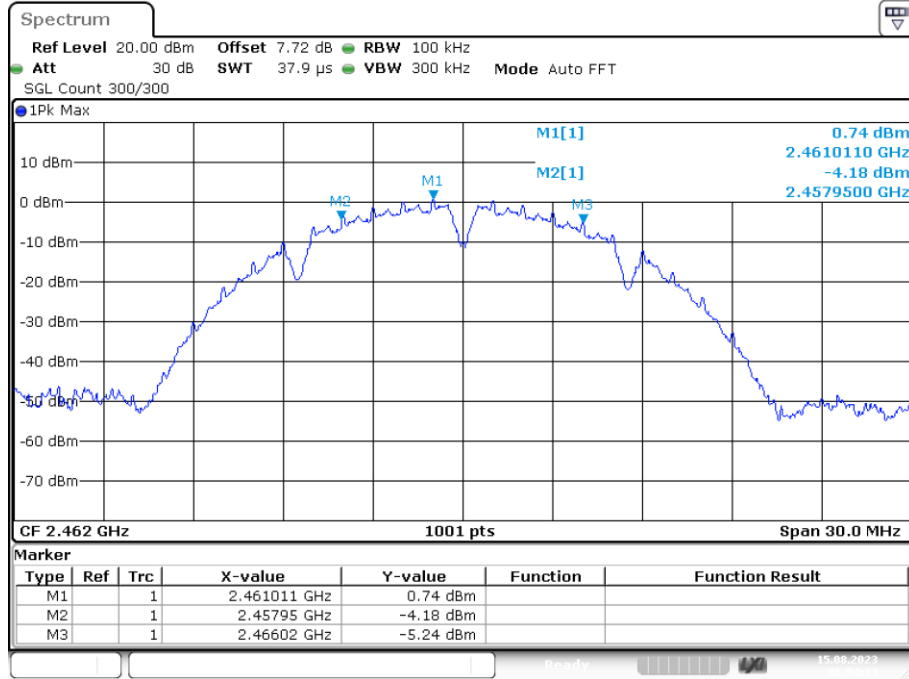
Date: 15.AUG.2023 06:49:10

-6dB Bandwidth NVNT b 2437MHz Ant1

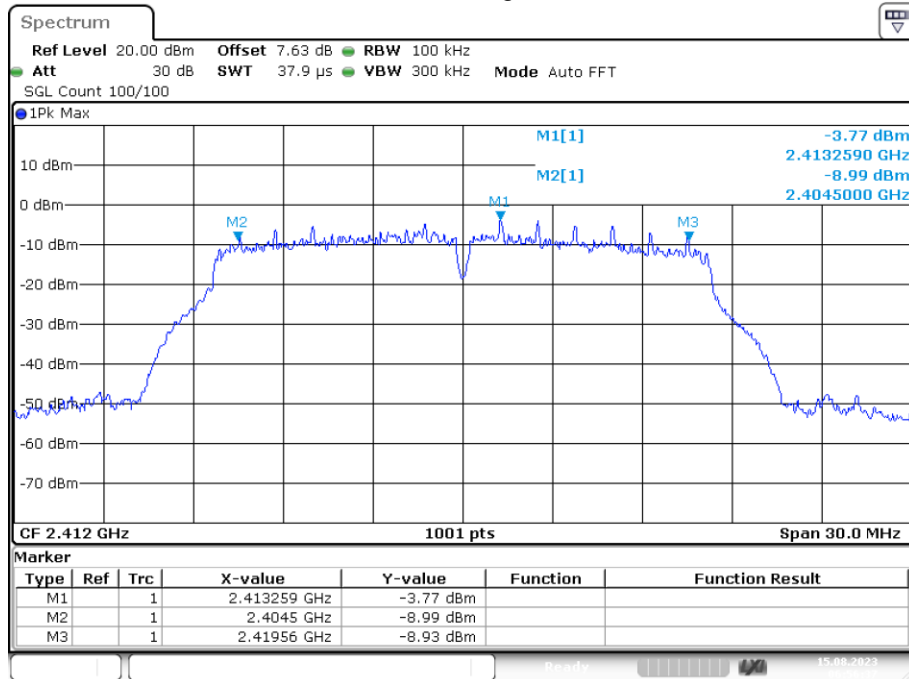


Date: 15.AUG.2023 06:51:11

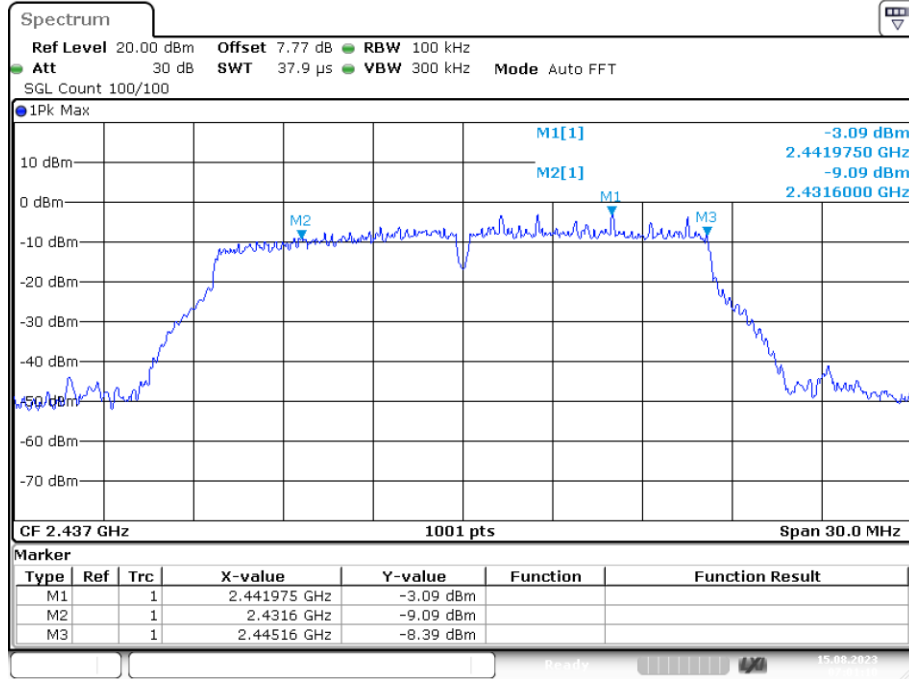
-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

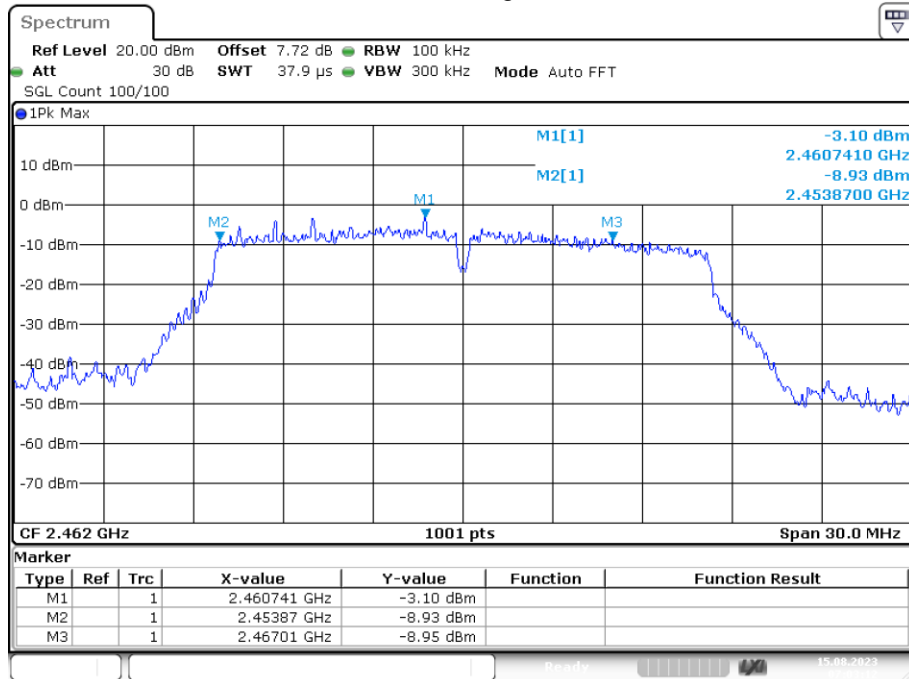


-6dB Bandwidth NVNT g 2437MHz Ant1



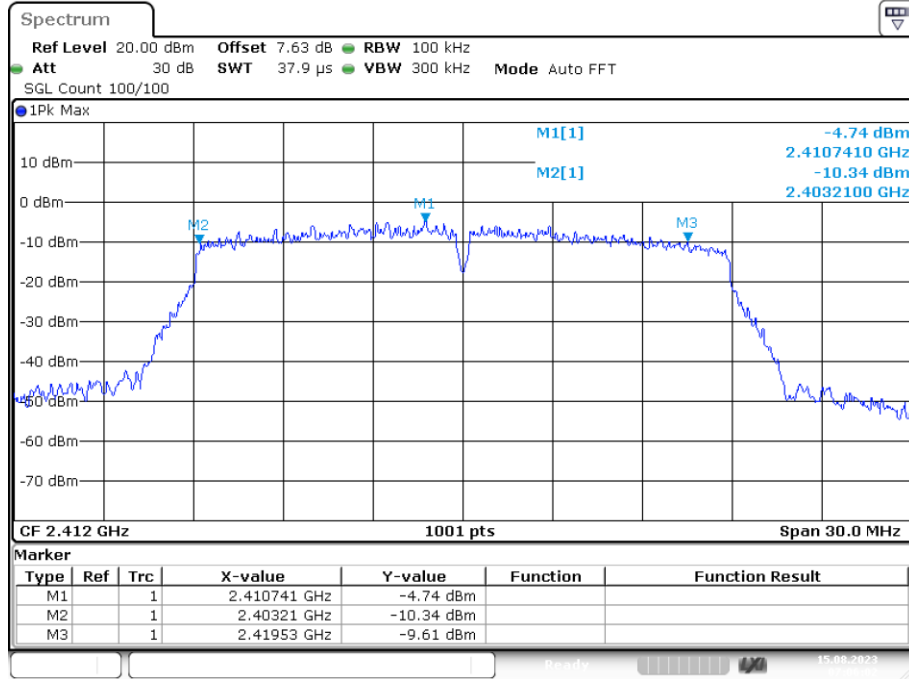
Date: 15.AUG.2023 07:01:09

-6dB Bandwidth NVNT g 2462MHz Ant1



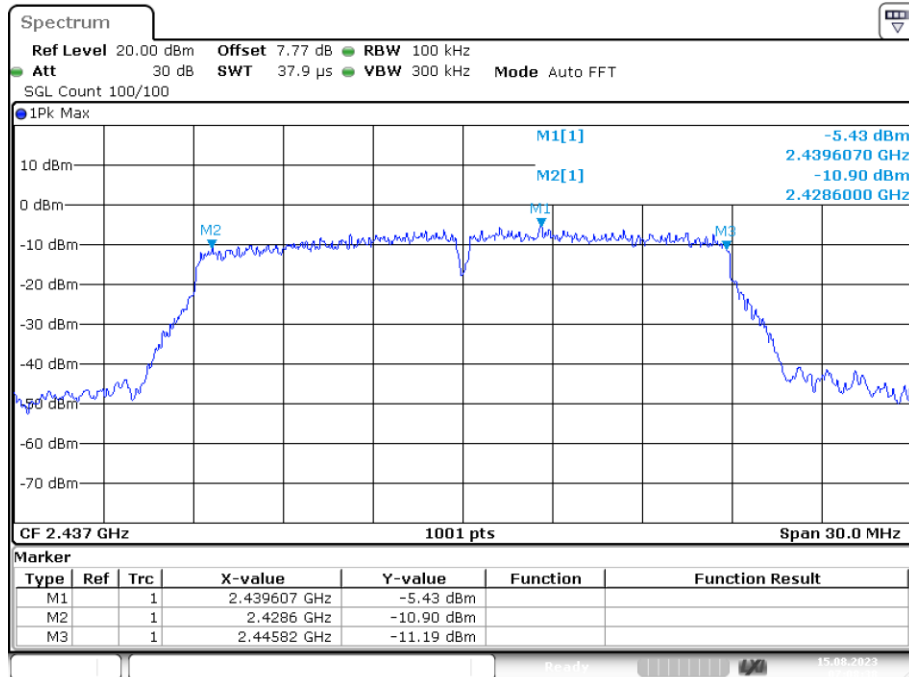
Date: 15.AUG.2023 07:03:11

-6dB Bandwidth NVNT n20 2412MHz Ant1



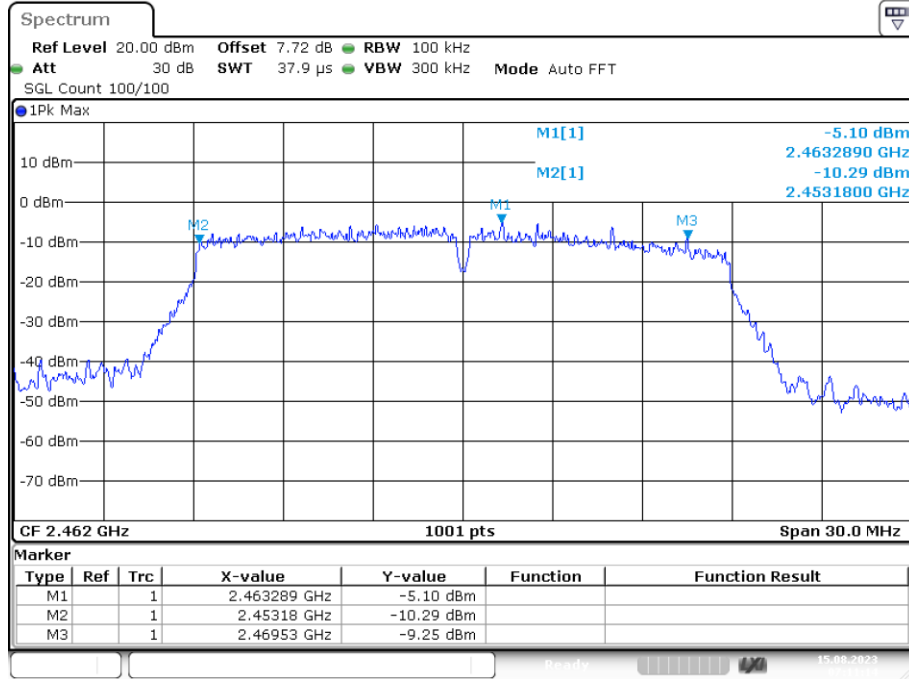
Date: 15.AUG.2023 07:06:01

-6dB Bandwidth NVNT n20 2437MHz Ant1



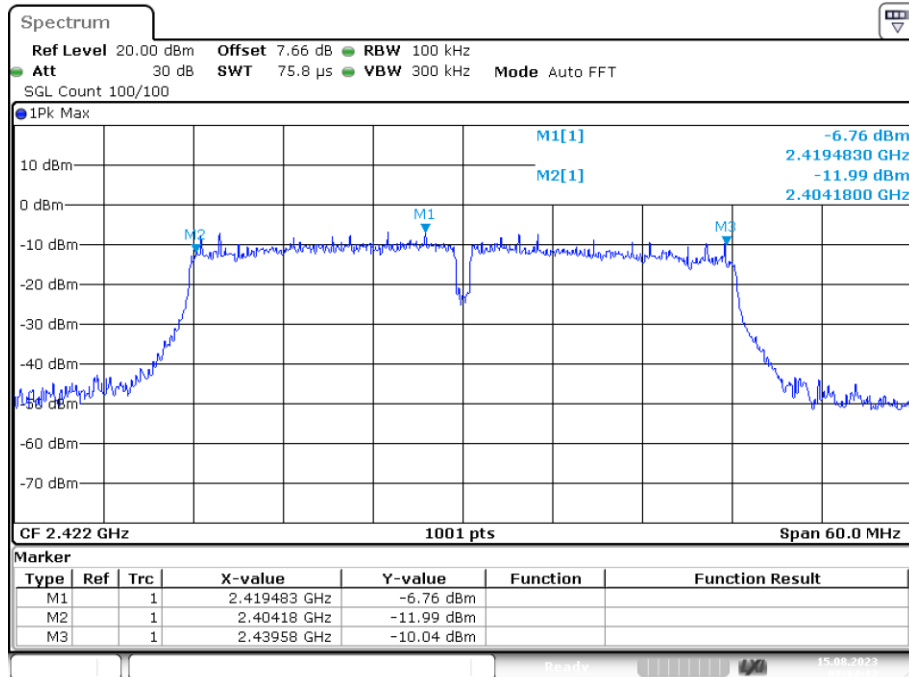
Date: 15.AUG.2023 07:08:39

-6dB Bandwidth NVNT n20 2462MHz Ant1



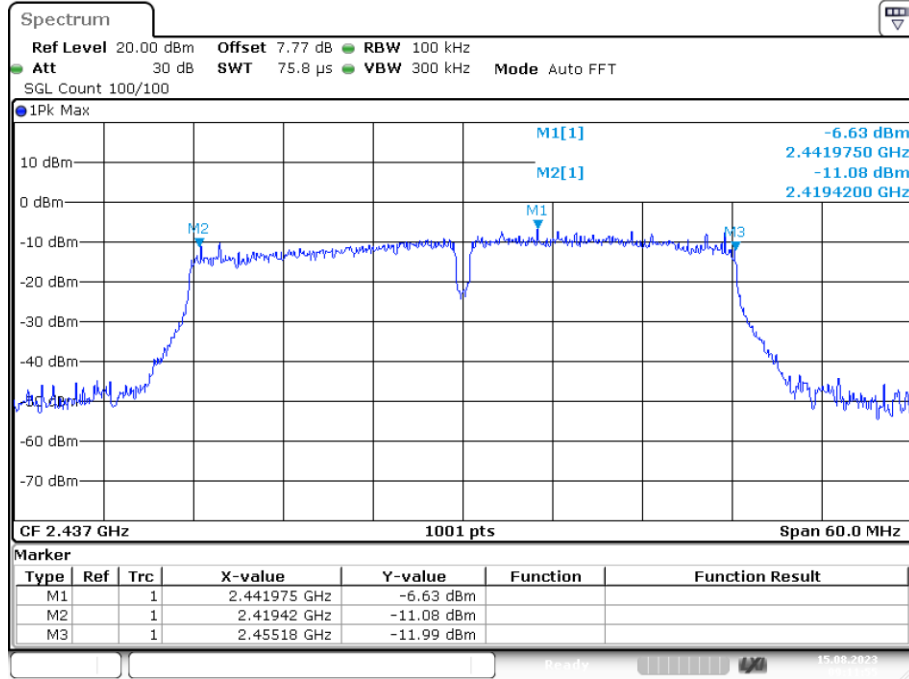
Date: 15.AUG.2023 07:11:13

-6dB Bandwidth NVNT n40 2422MHz Ant1

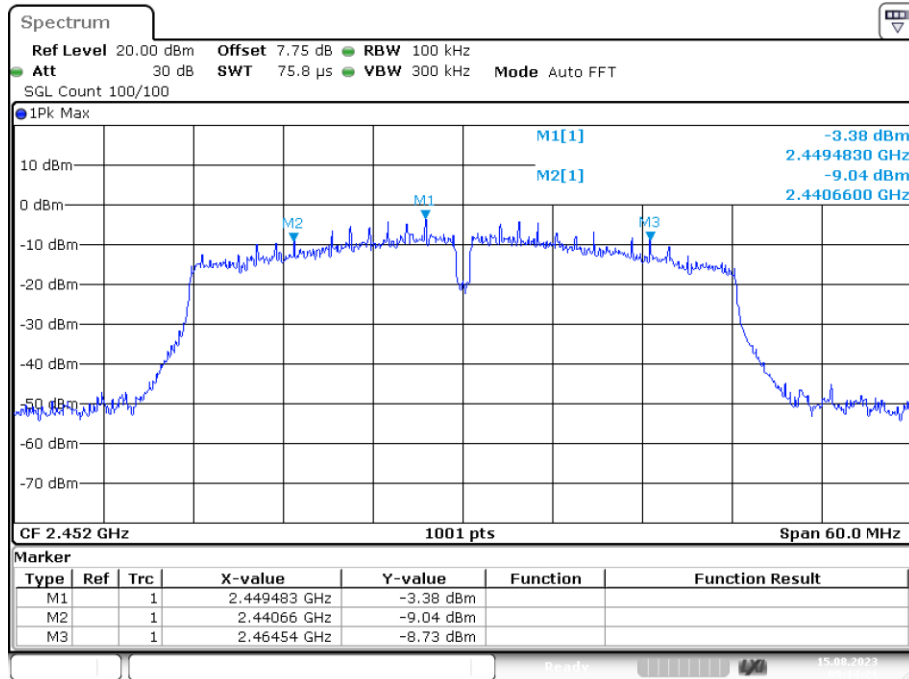


Date: 15.AUG.2023 07:14:12

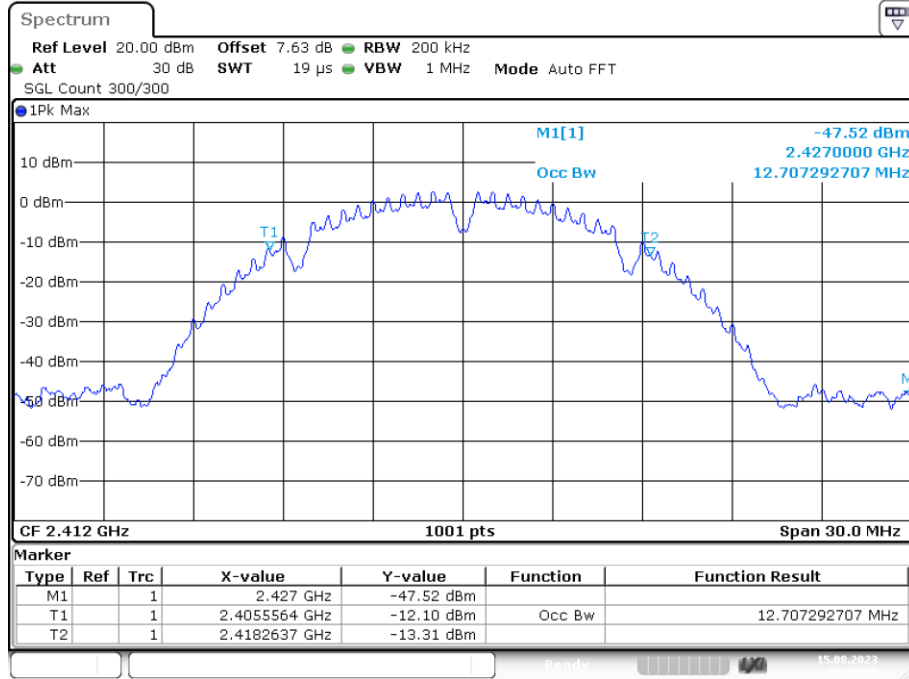
-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

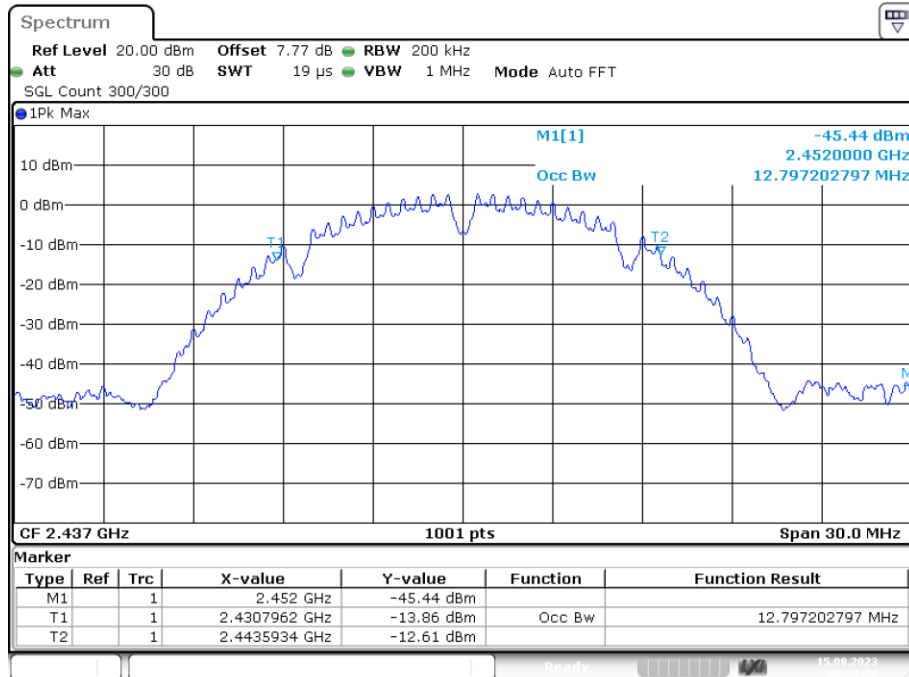


OBW NVNT b 2412MHz Ant1



Date: 15.AUG.2023 06:48:59

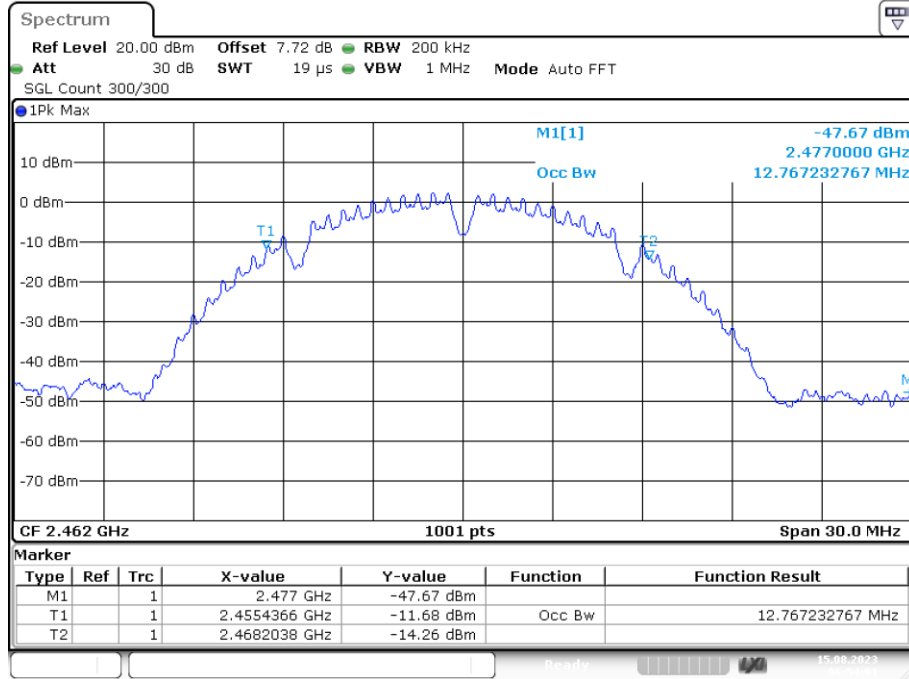
OBW NVNT b 2437MHz Ant1



Date: 15.AUG.2023 06:51:00

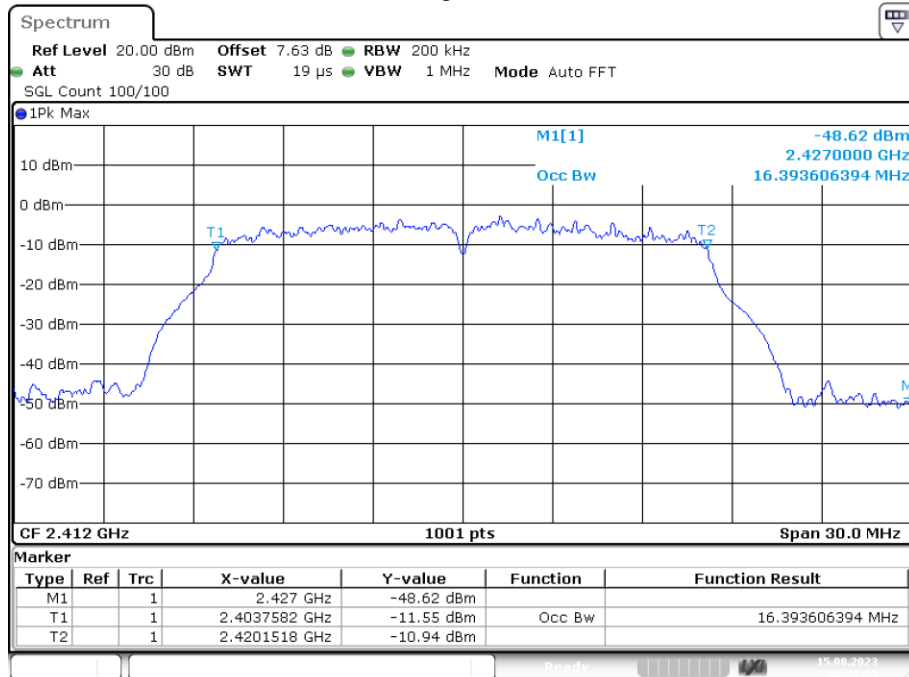


OBW NVNT b 2462MHz Ant1



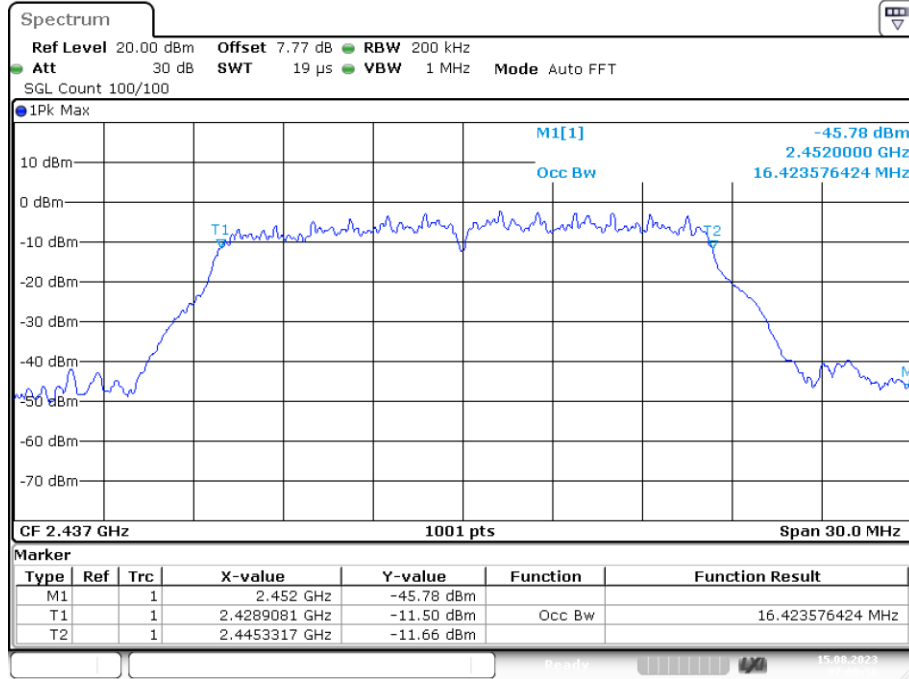
Date: 15.AUG.2023 06:54:00

OBW NVNT g 2412MHz Ant1

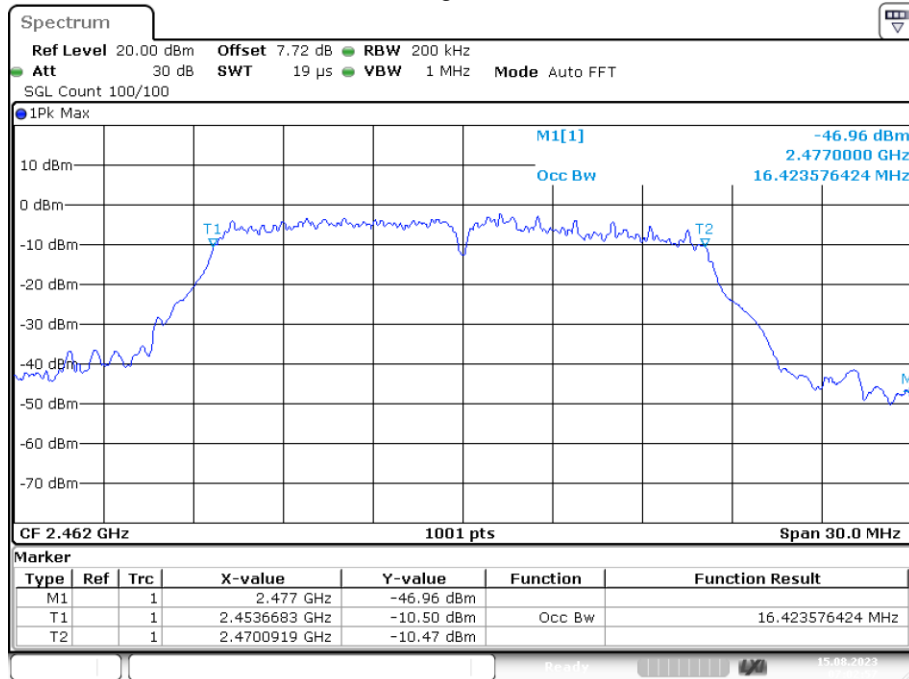


Date: 15.AUG.2023 06:56:24

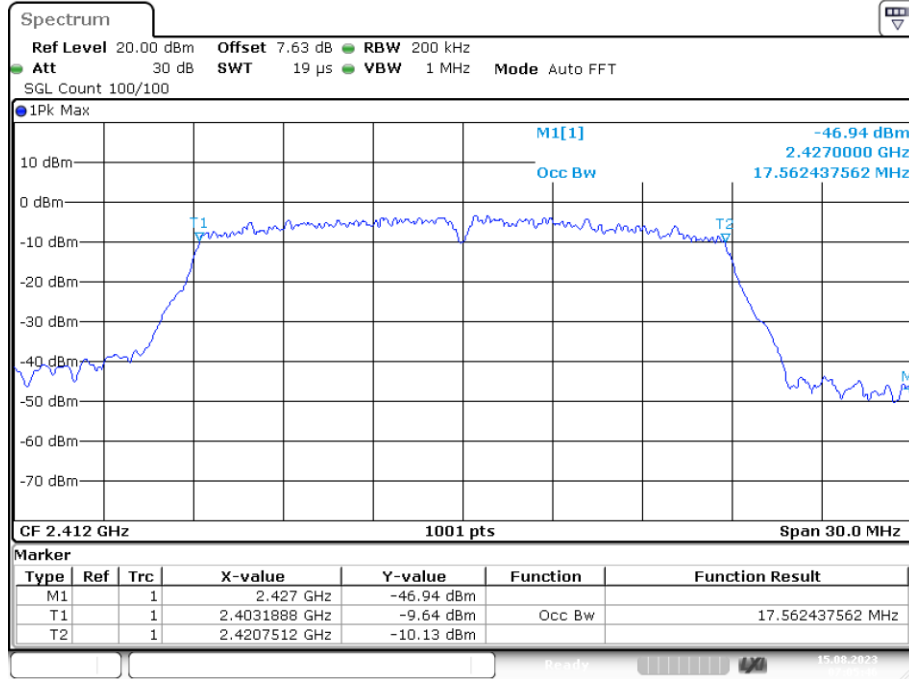
OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1

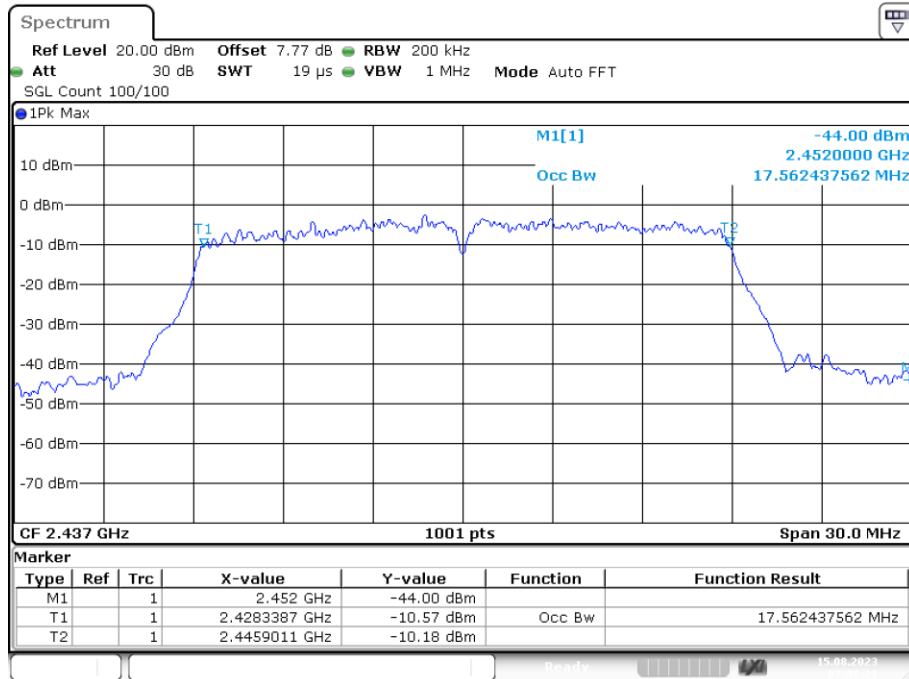


OBW NVNT n20 2412MHz Ant1



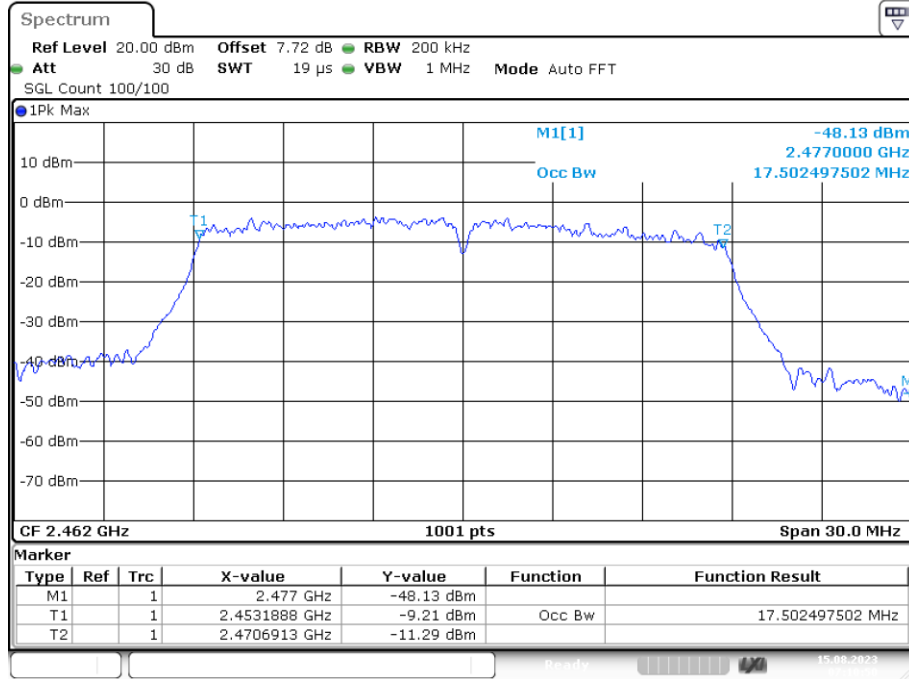
Date: 15.AUG.2023 07:05:46

OBW NVNT n20 2437MHz Ant1



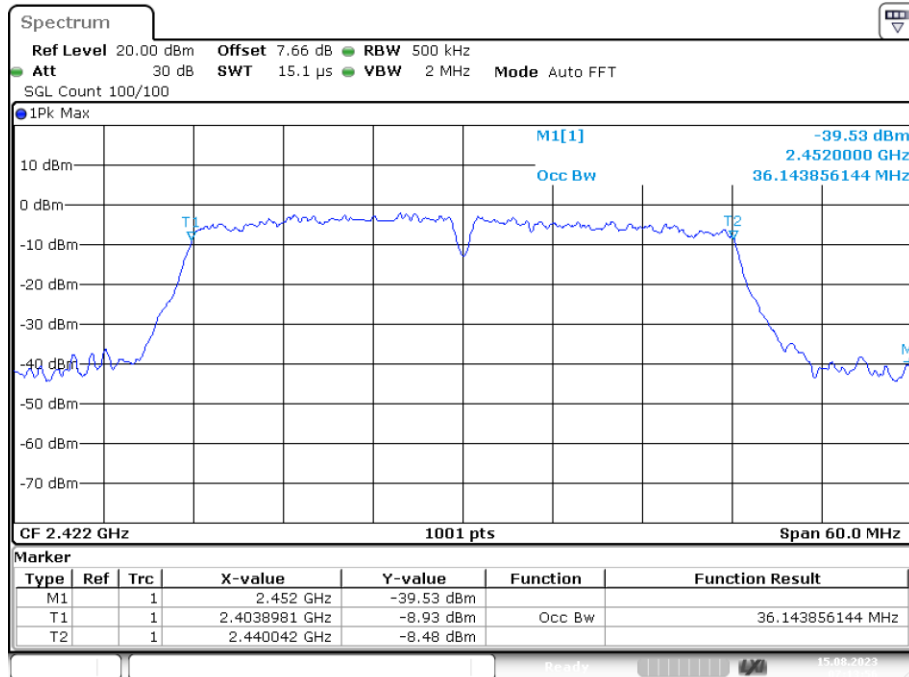
Date: 15.AUG.2023 07:08:22

OBW NVNT n20 2462MHz Ant1



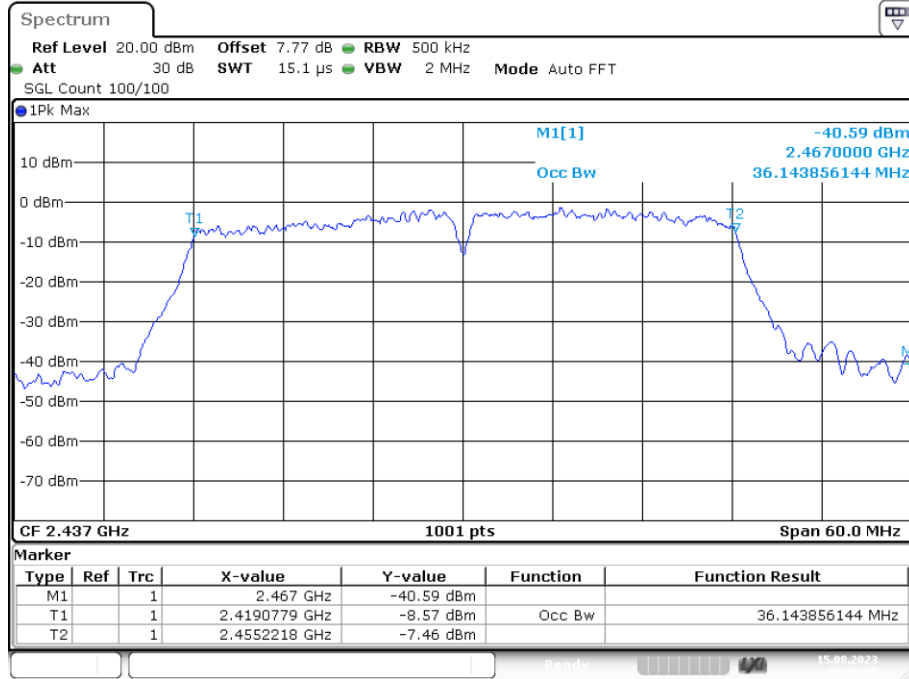
Date: 15.AUG.2023 07:10:50

OBW NVNT n40 2422MHz Ant1



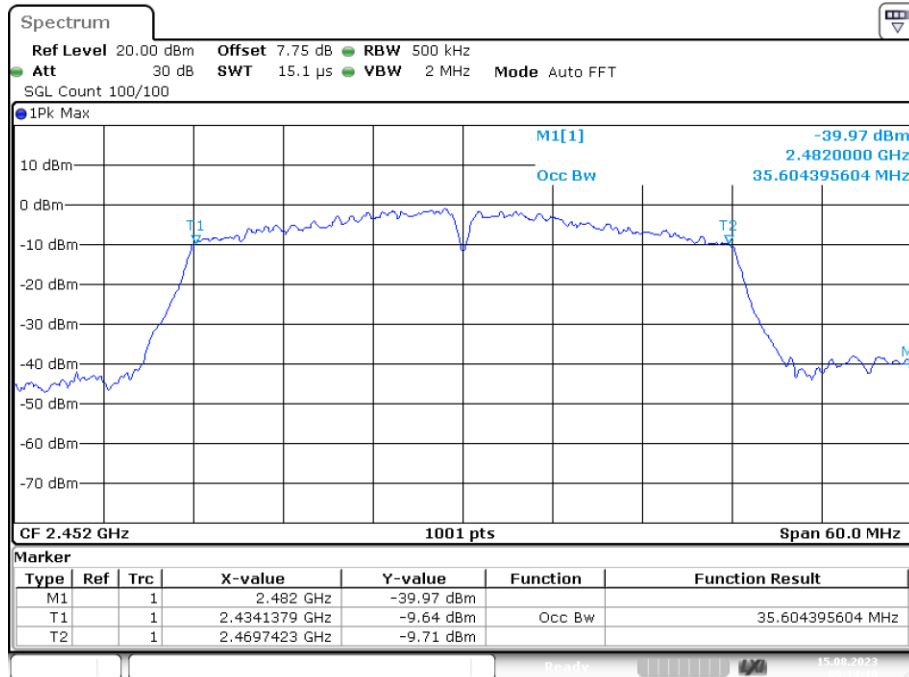
Date: 15.AUG.2023 07:13:56

OBW NVNT n40 2437MHz Ant1



Date: 15.AUG.2023 09:11:44

OBW NVNT n40 2452MHz Ant1



Date: 15.AUG.2023 09:14:10

## 8. Band Edge Check

### 8.1. Test limits

Please refer RSS-GEN & FCC PART 15: 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits and RSS-GEN limits.

### 8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

9.2.1 Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

9.2.2 Check the spurious emissions out of band.

9.2.3 RBW 1MHz, VBW 3MHz, peak detector for peak value , RBW 1MHz ,VBW 10Hz , RMS detector for AV value.

### 8.3. Test Setup

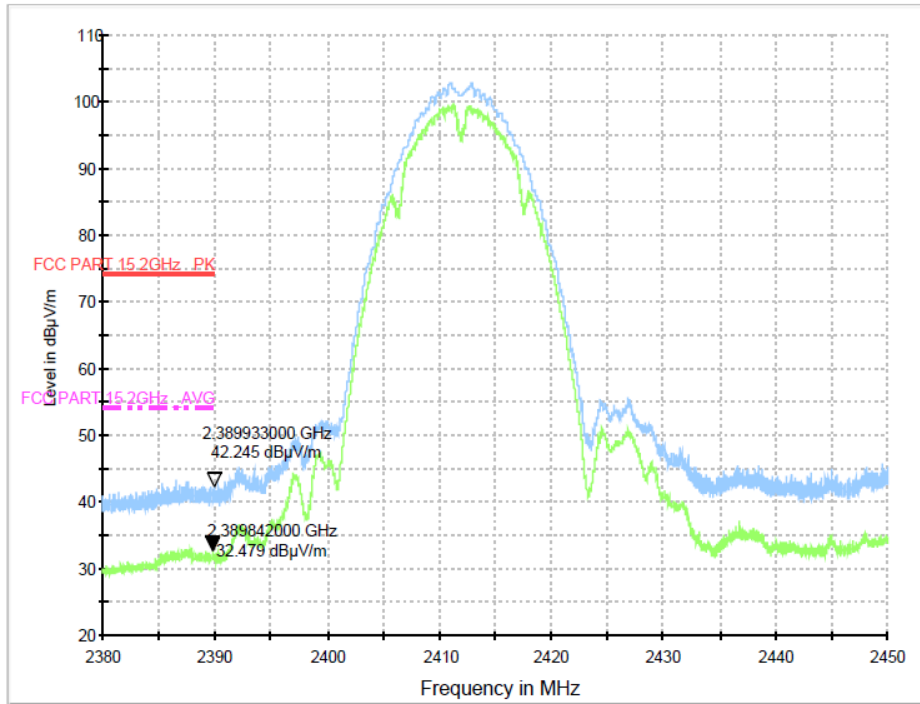
Same as 5.2.2.

### 8.4. Test Results

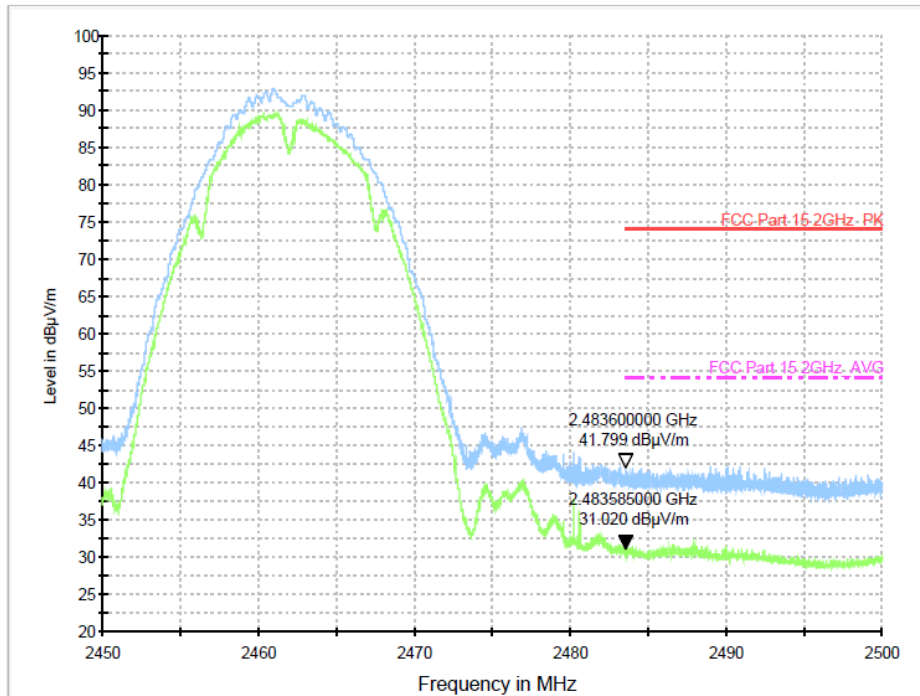
PASS.

Detailed information please see the following page.

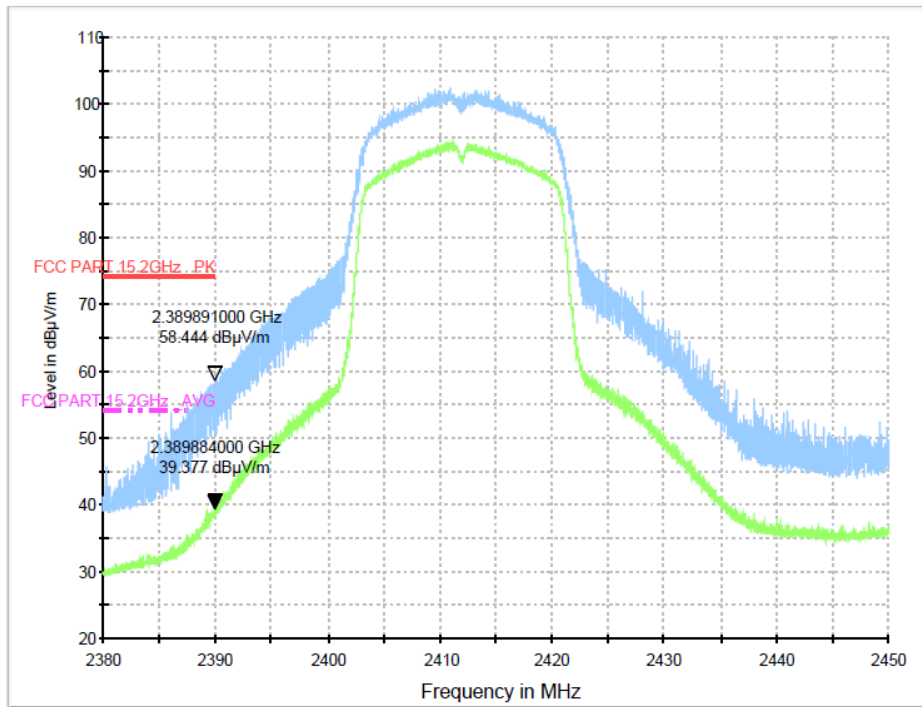
Test Mode: IEEE 802.11b-Low



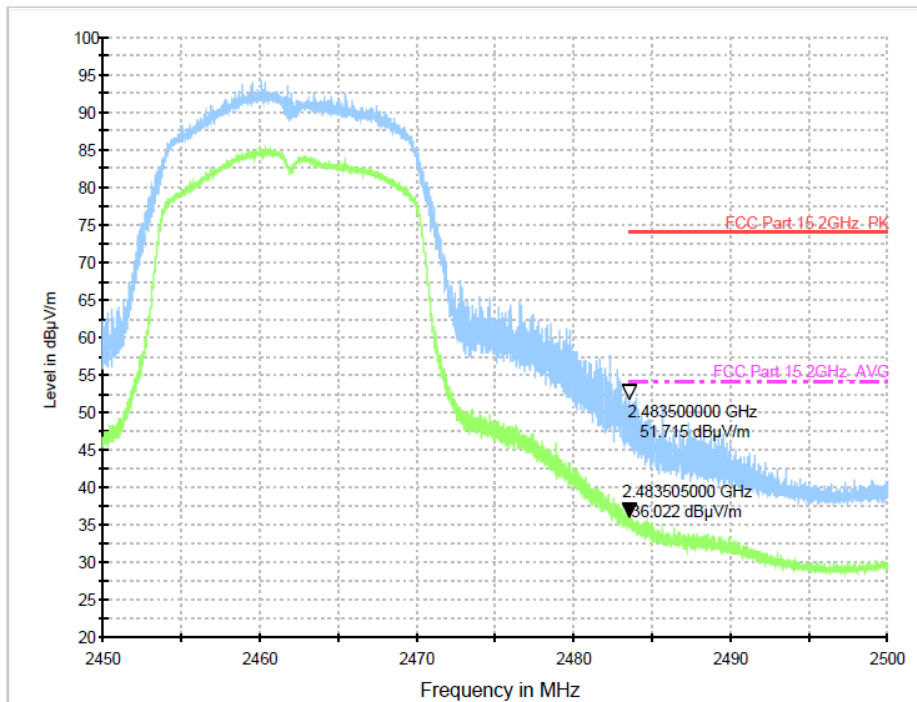
Test Mode: IEEE 802.11b-High



Test Mode: IEEE 802.11g-Low

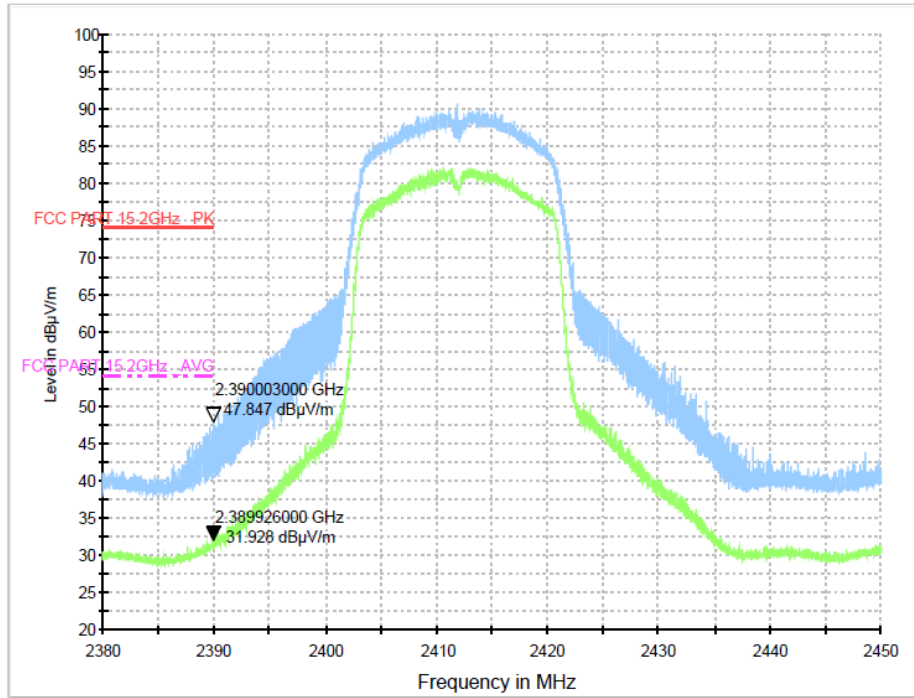


Test Mode: IEEE 802.11g-High

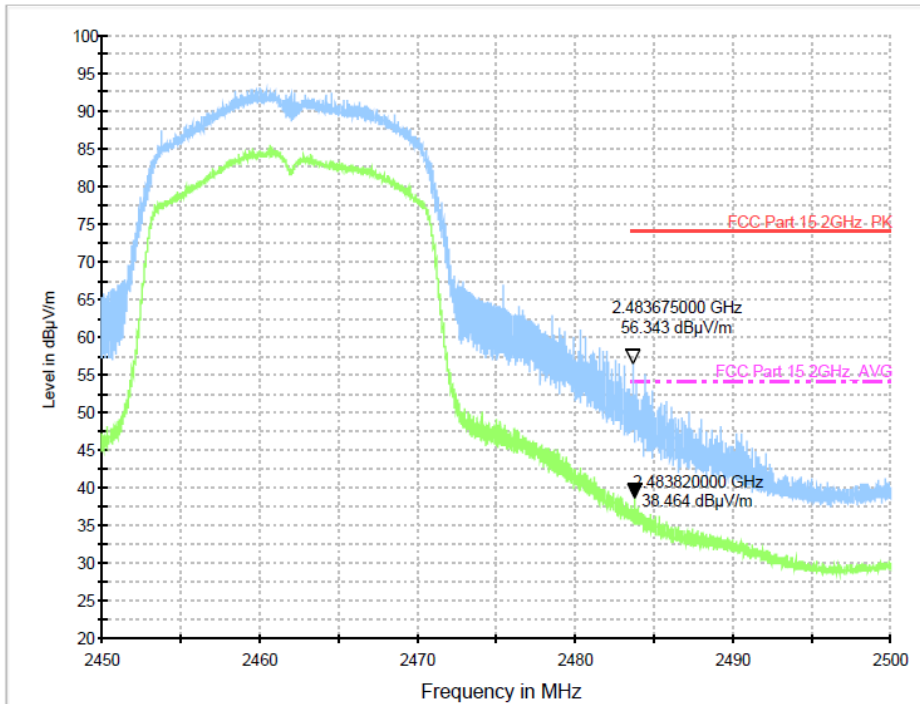




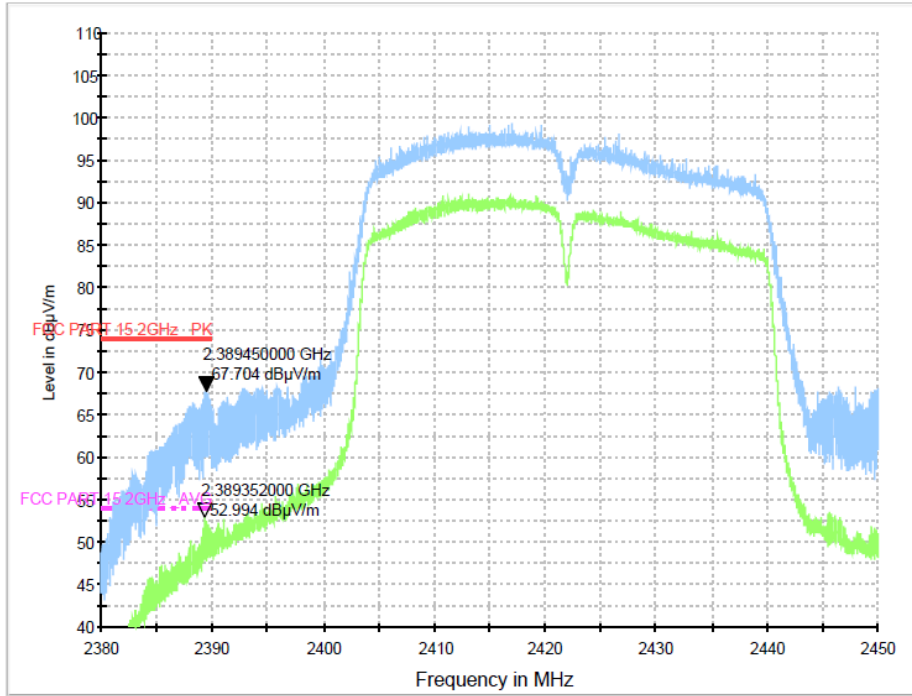
Test Mode: IEEE 802.11n20-Low



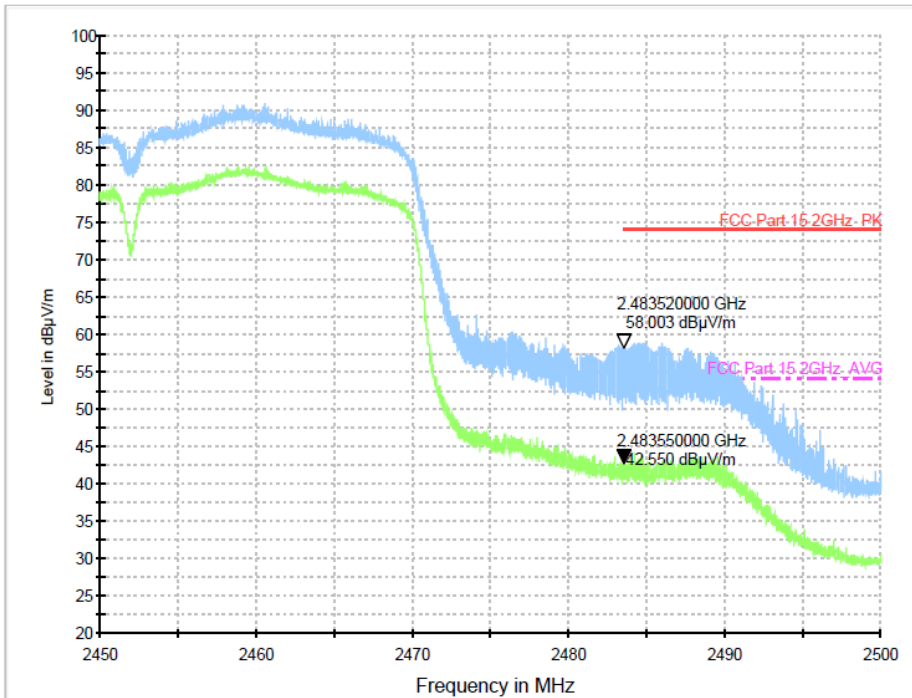
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

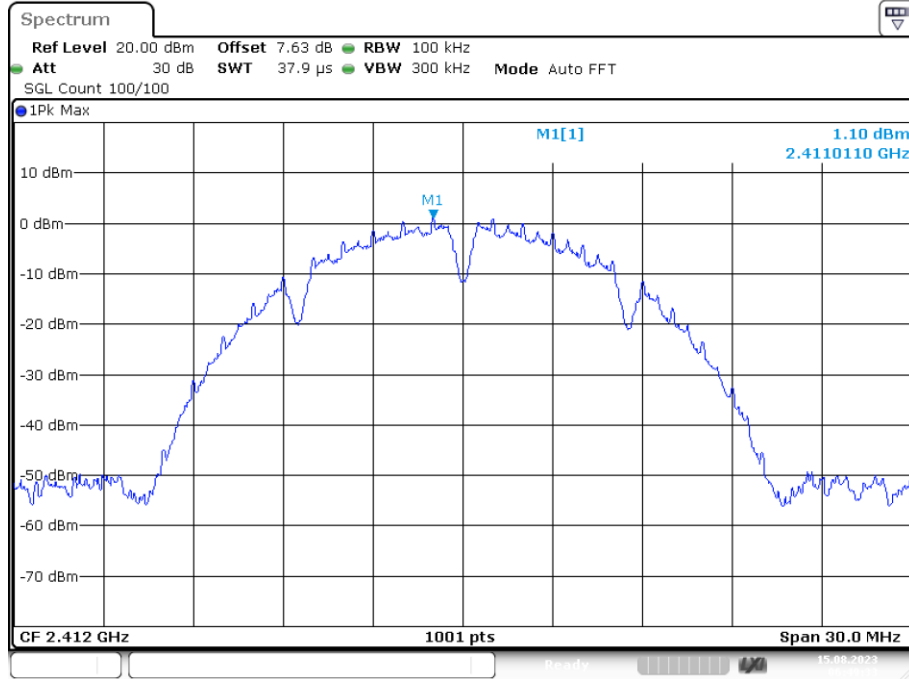


Test Mode: IEEE 802.11n40-High



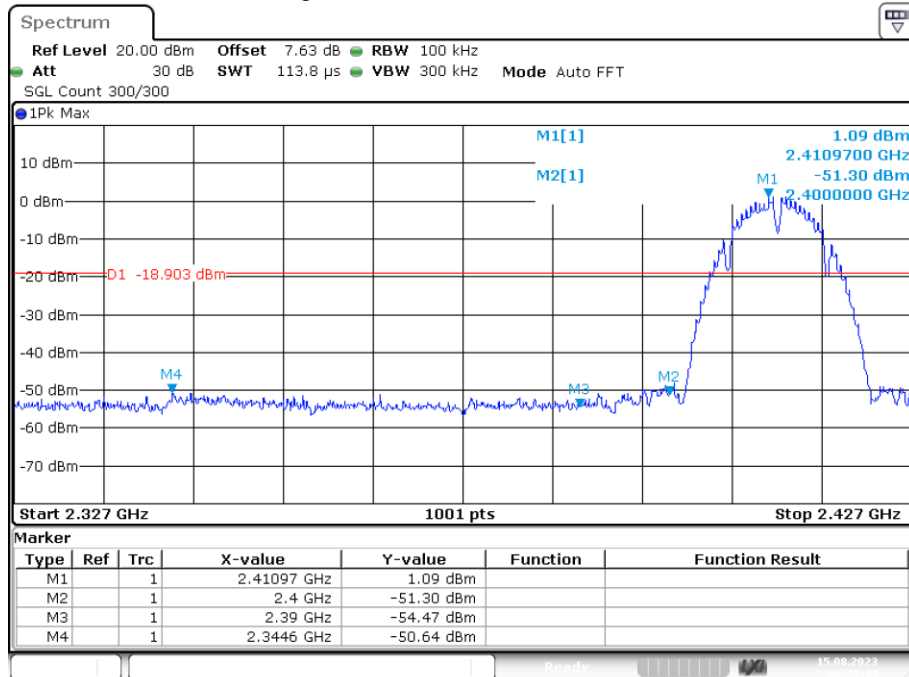
Note: 1. \*:Maximum data; x:Over limit; !:over margin.  
2.Measurement=Reading Level + Correct Factor; Correct Factor=Antenna Factor + Cable Loss.

Band Edge NVNT b 2412MHz Ant1 Ref



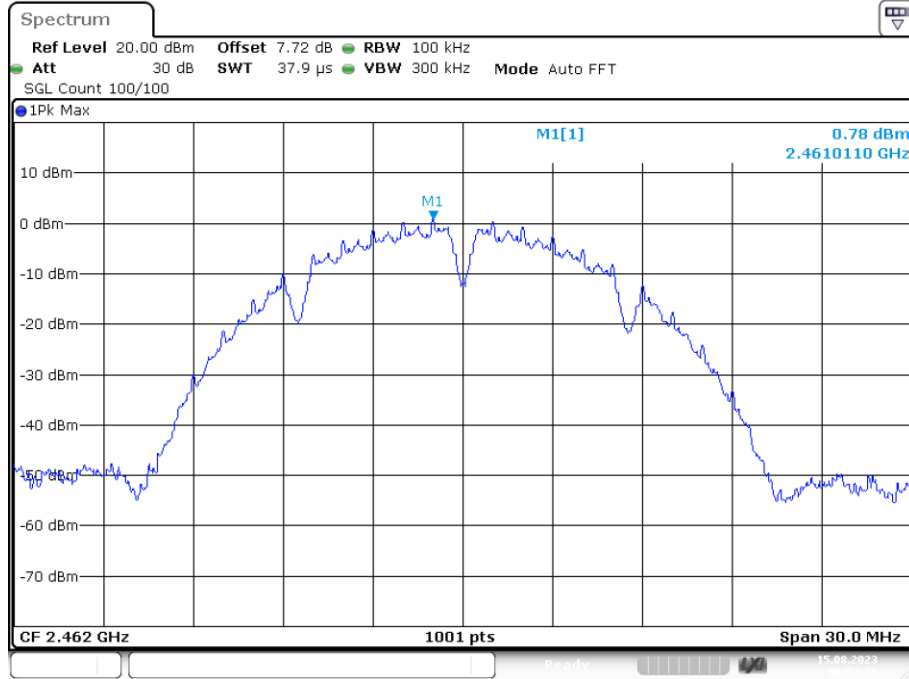
Date: 15.AUG.2023 06:49:33

Band Edge NVNT b 2412MHz Ant1 Emission



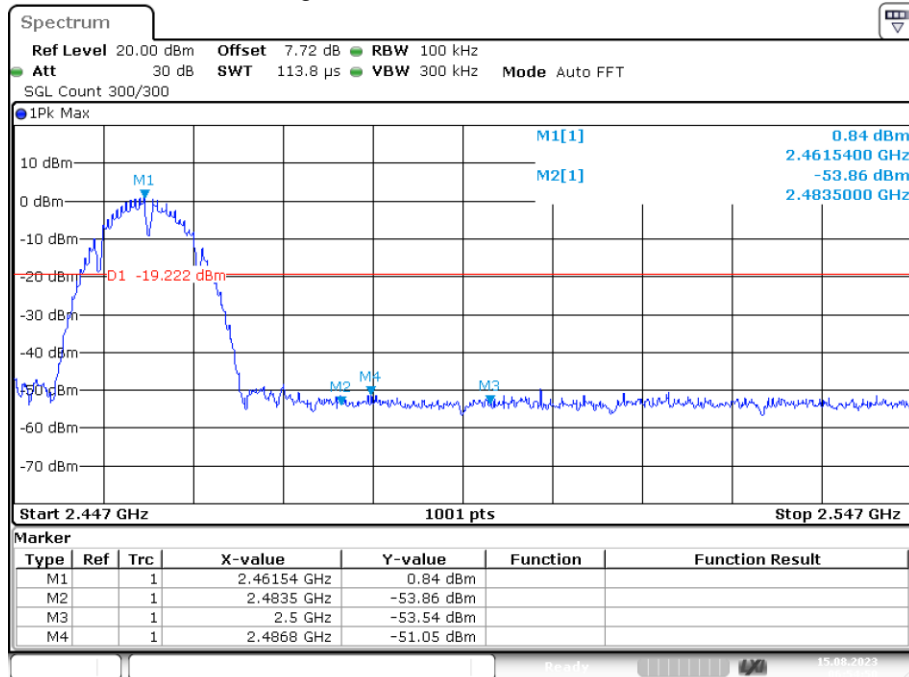
Date: 15.AUG.2023 06:49:45

Band Edge NVNT b 2462MHz Ant1 Ref



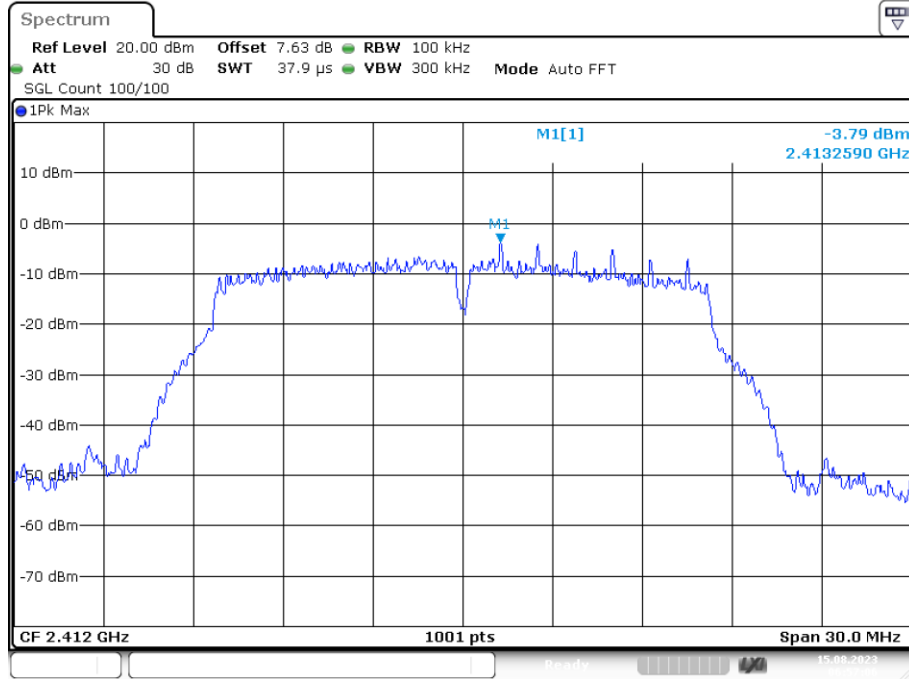
Date: 15.AUG.2023 06:54:39

Band Edge NVNT b 2462MHz Ant1 Emission



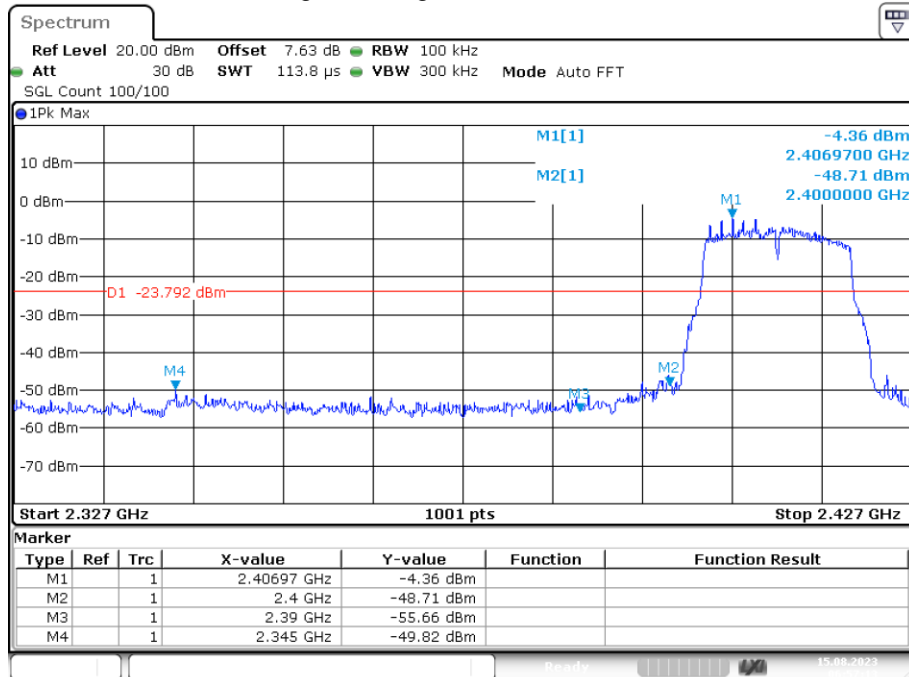
Date: 15.AUG.2023 06:54:50

### Band Edge NVNT g 2412MHz Ant1 Ref



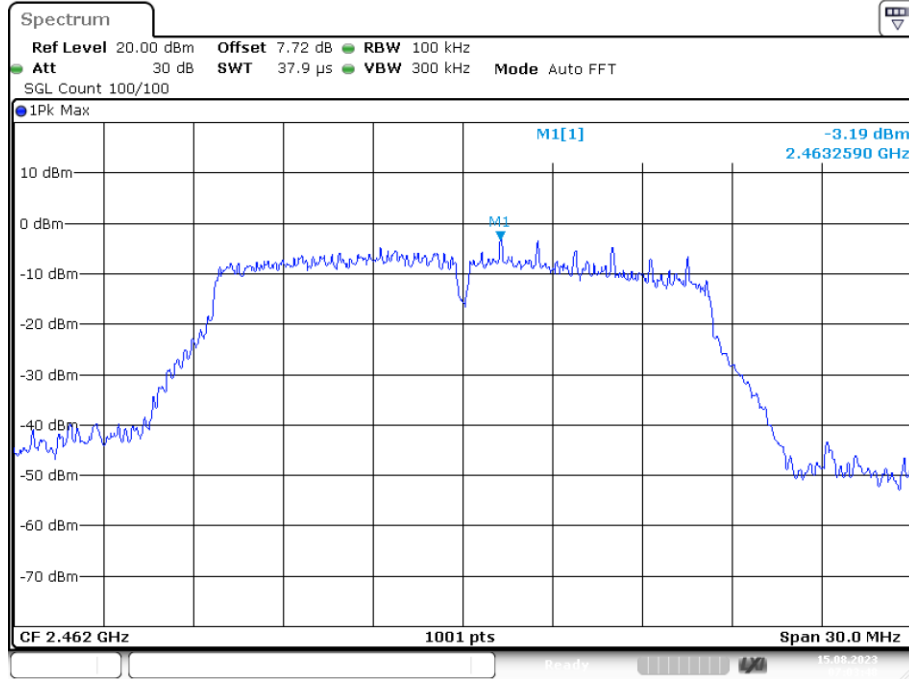
Date: 15.AUG.2023 06:57:06

### Band Edge NVNT g 2412MHz Ant1 Emission



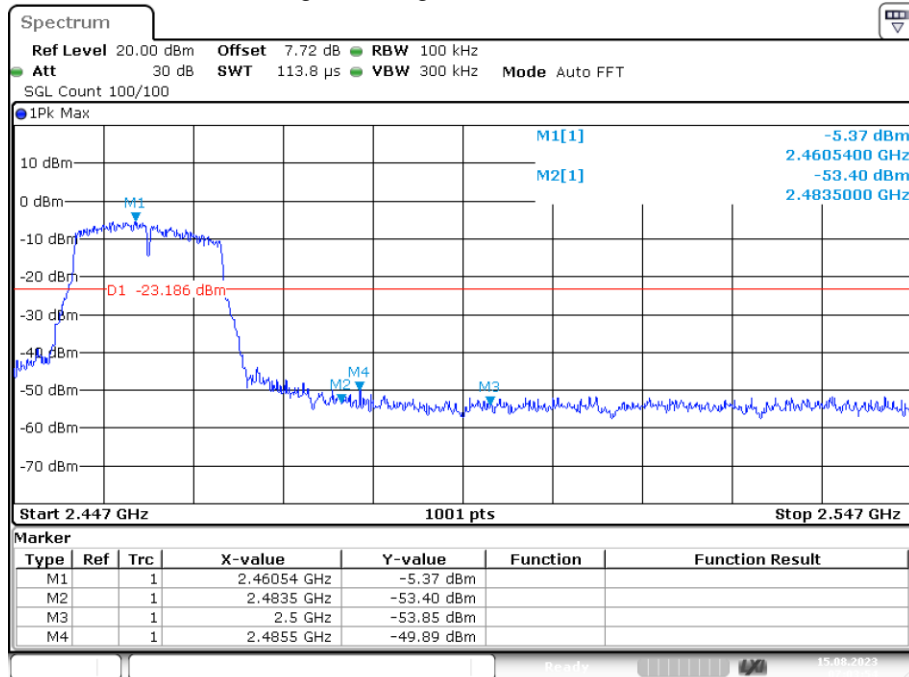
Date: 15.AUG.2023 06:57:12

Band Edge NVNT g 2462MHz Ant1 Ref



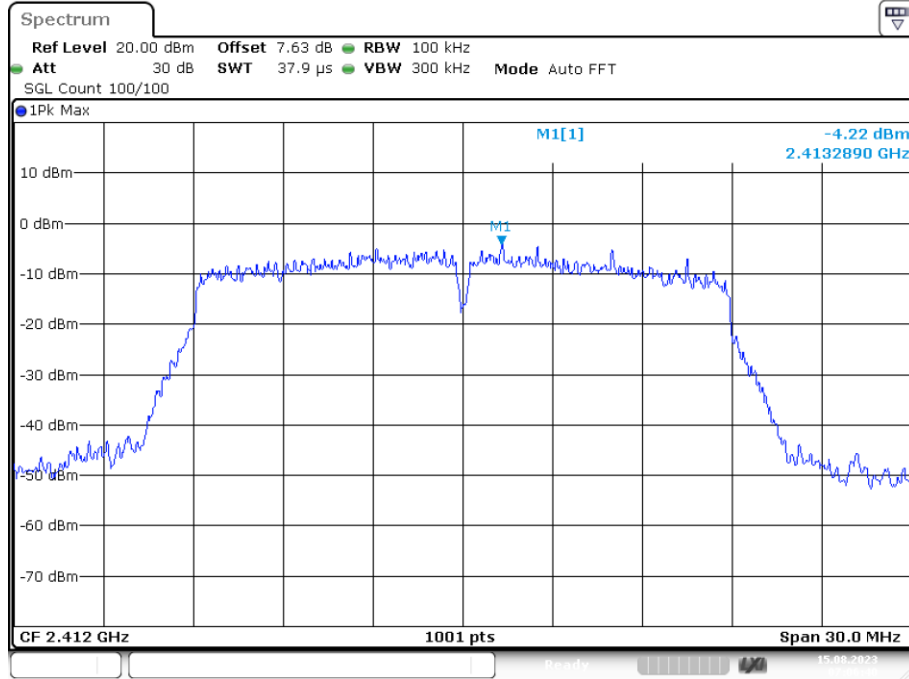
Date: 15.AUG.2023 07:03:47

Band Edge NVNT g 2462MHz Ant1 Emission



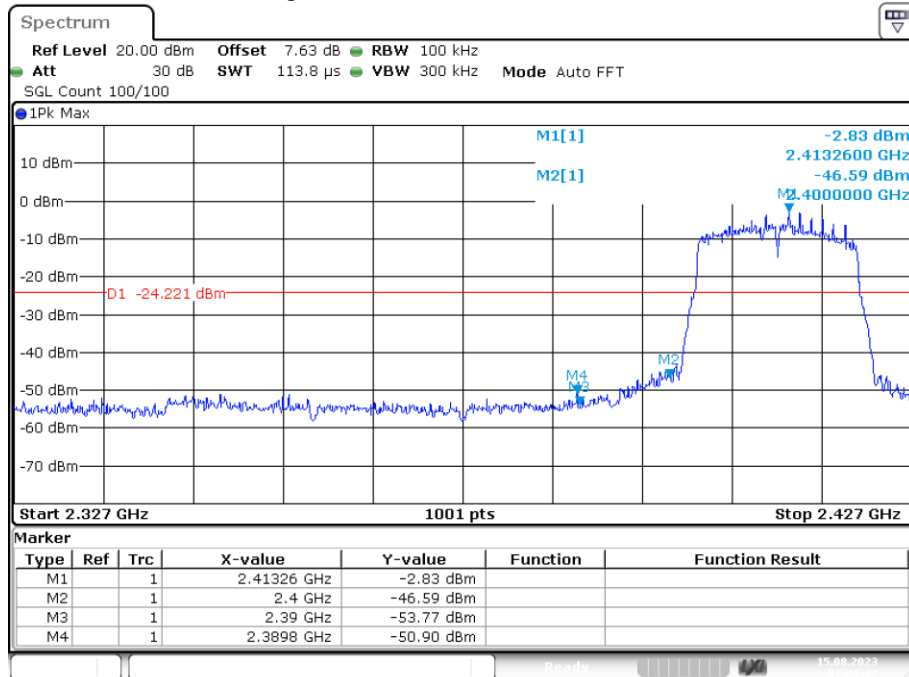
Date: 15.AUG.2023 07:03:53

Band Edge NVNT n20 2412MHz Ant1 Ref



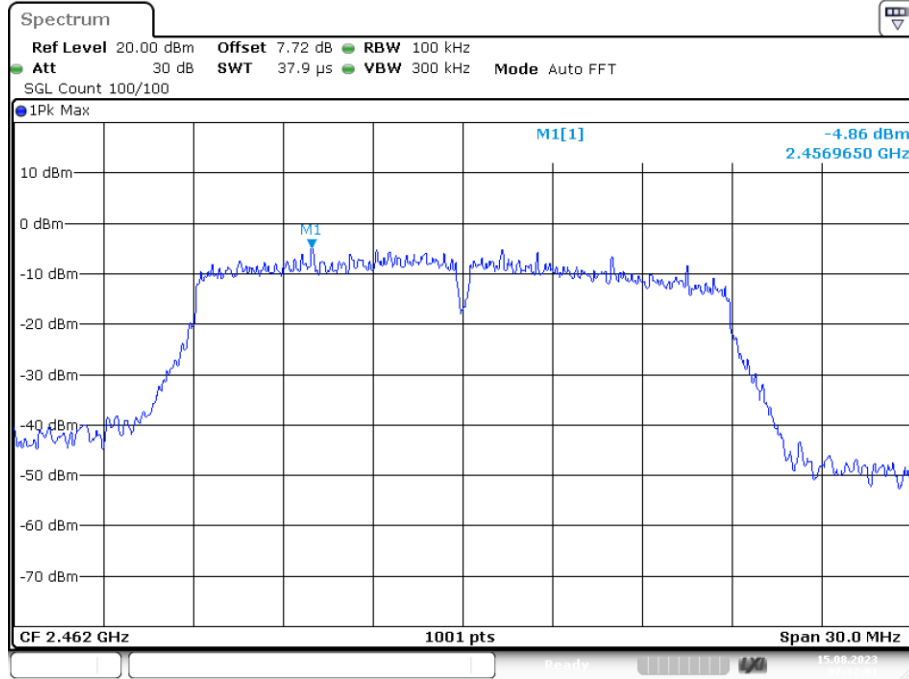
Date: 15.AUG.2023 07:06:40

Band Edge NVNT n20 2412MHz Ant1 Emission



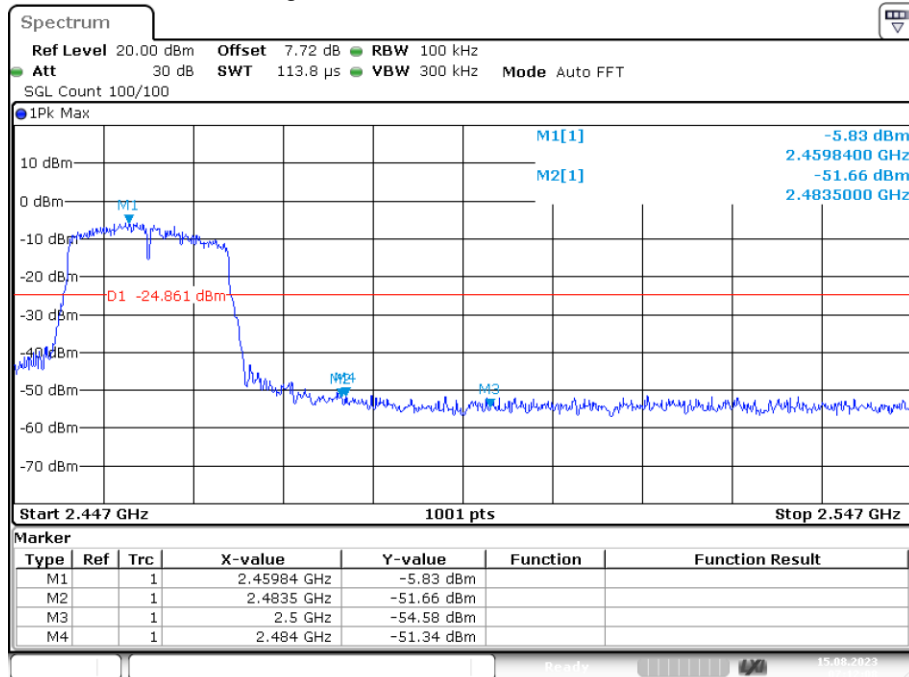
Date: 15.AUG.2023 07:06:46

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 15.AUG.2023 07:12:01

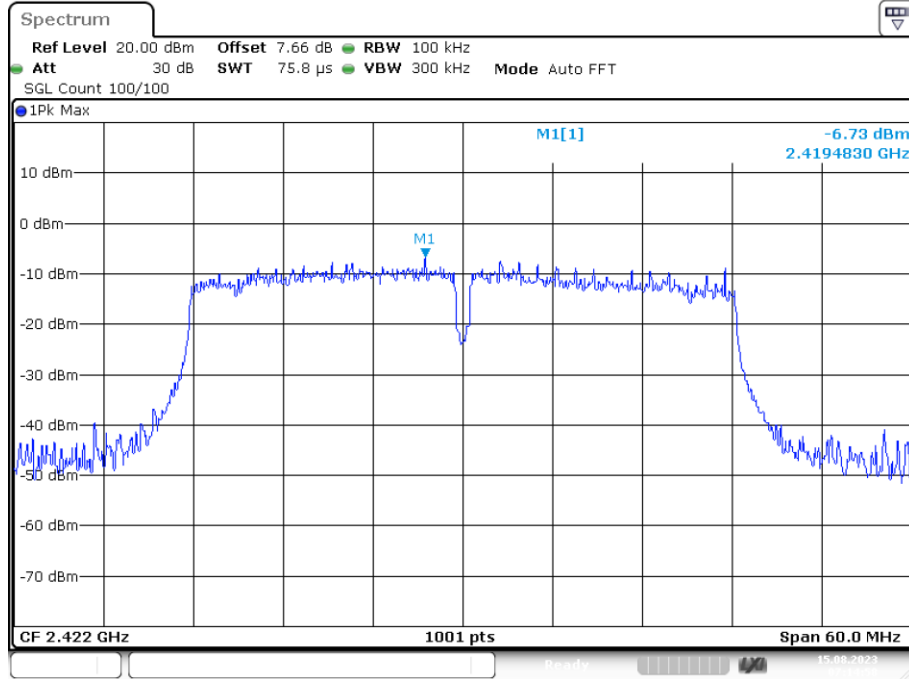
Band Edge NVNT n20 2462MHz Ant1 Emission



Date: 15.AUG.2023 07:12:07

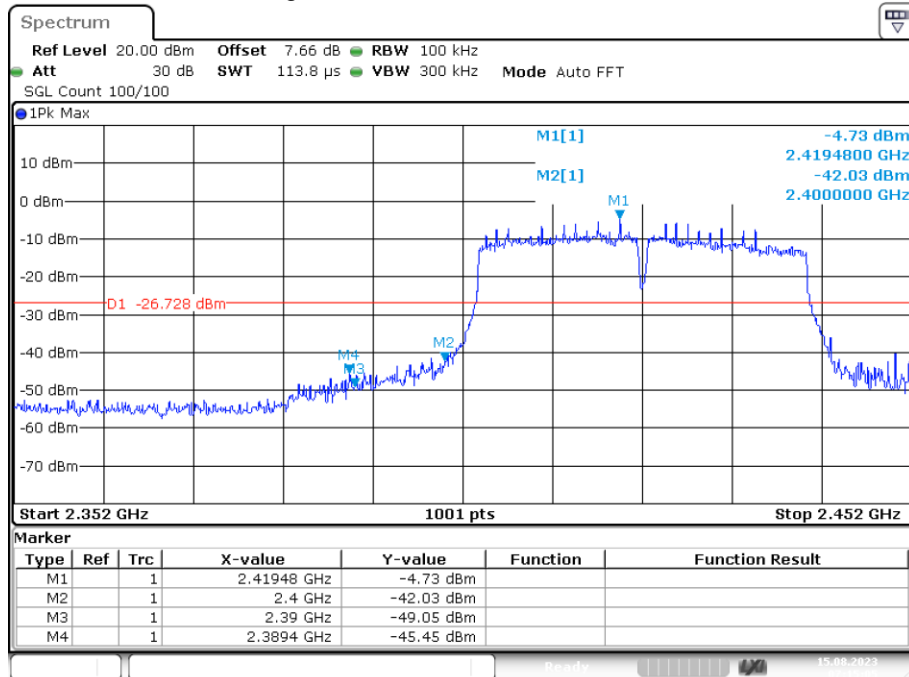


### Band Edge NVNT n40 2422MHz Ant1 Ref



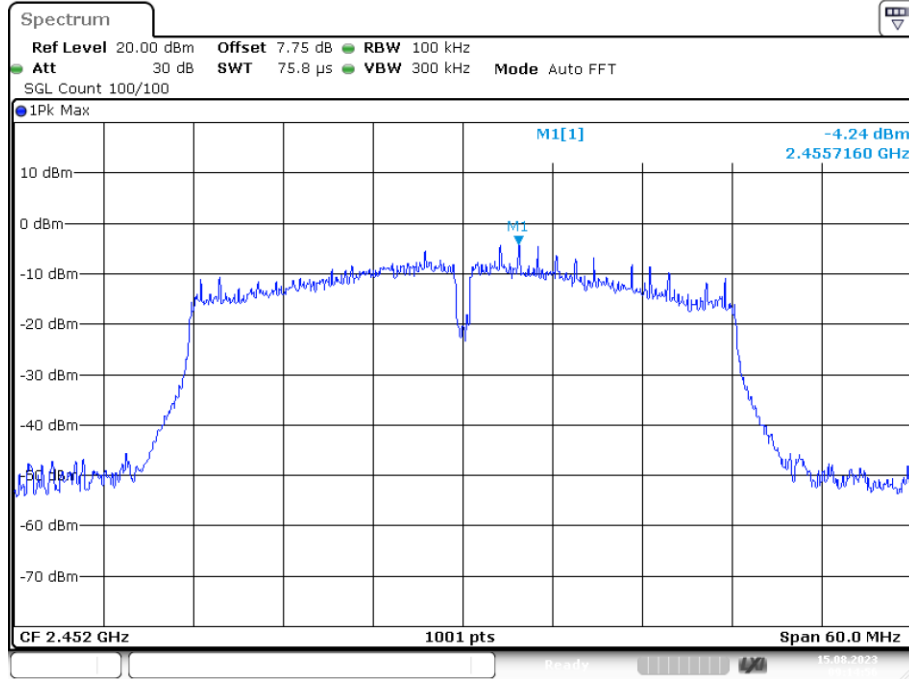
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### Band Edge NVNT n40 2422MHz Ant1 Emission



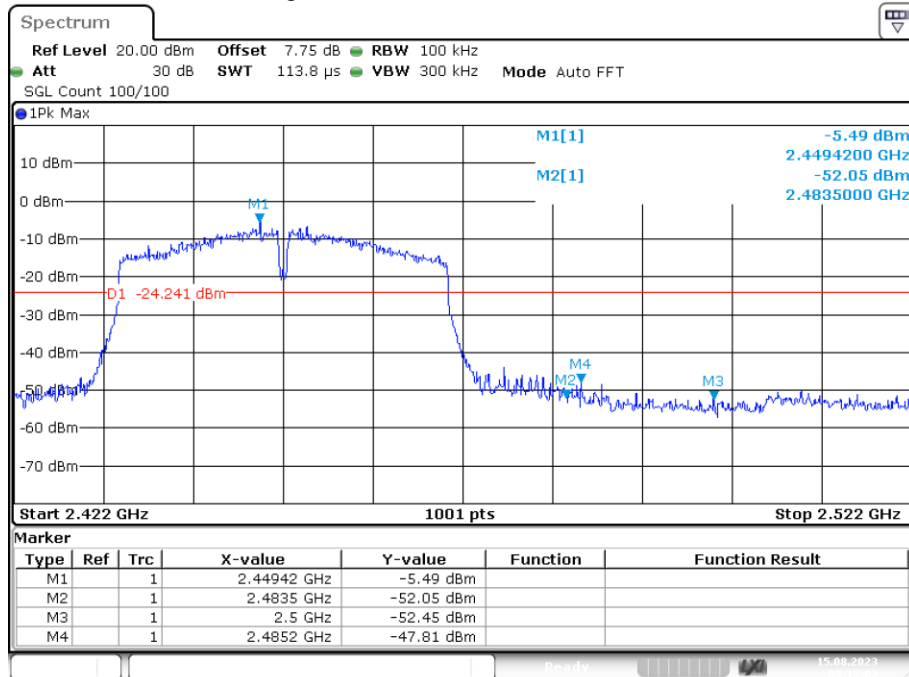
Date: 15.AUG.2023 07:15:04

Band Edge NVNT n40 2452MHz Ant1 Ref



Date: 15.AUG.2023 09:14:56

Band Edge NVNT n40 2452MHz Ant1 Emission



Date: 15.AUG.2023 09:15:01

- Note: 1. Except for mode b/g, other modes test the MIMO status.
- 2. Only the worst data of each pattern is reflected.

## **9. Antenna Requirement**

### **9.1. Standard Requirement**

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### **9.2. Antenna Connected Construction**

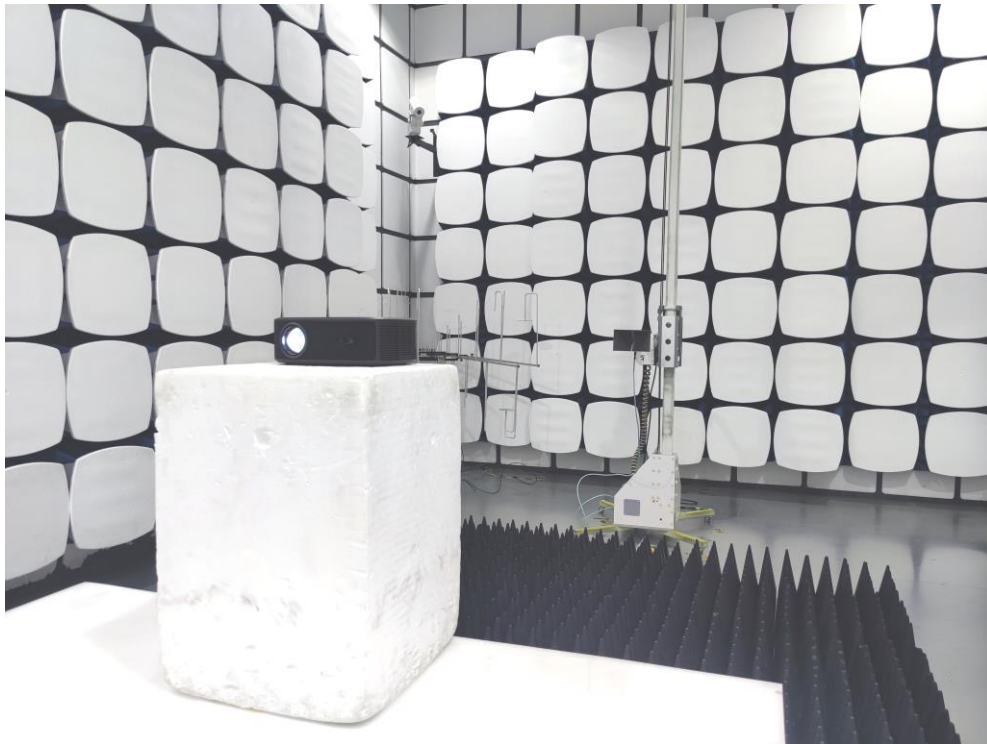
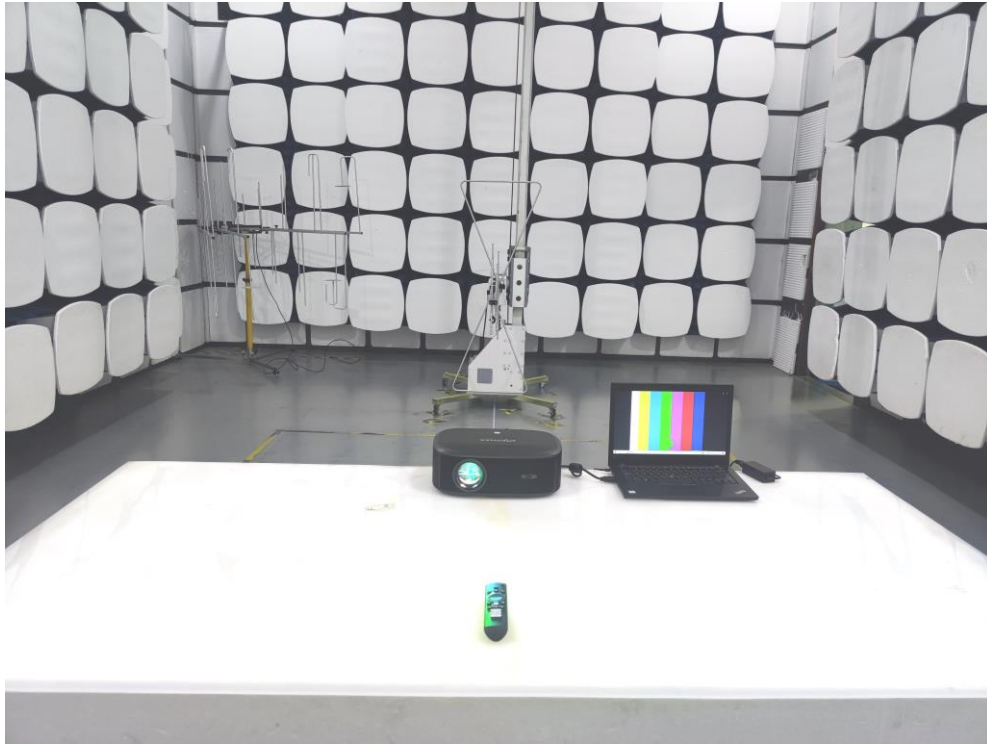
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

### **9.3. Results**

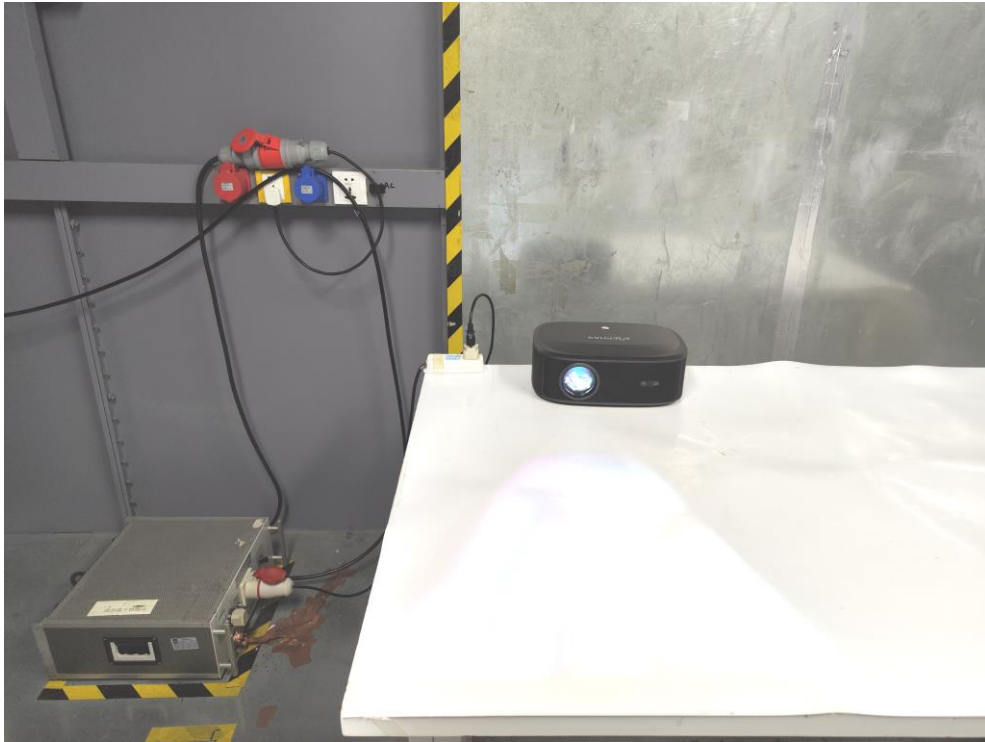
The EUT antenna is internal Antenna. It complies with the standard requirement.

## 10. Photos Of Test Setup

### 10.1. Photos of Radiated emission



10.2.Photo of Conducted Emission test



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