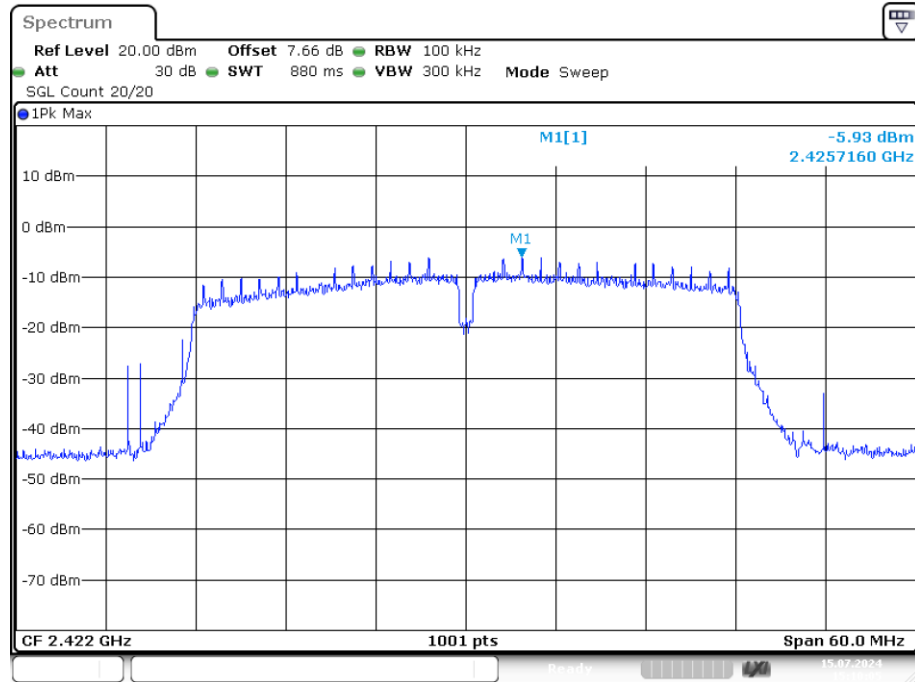
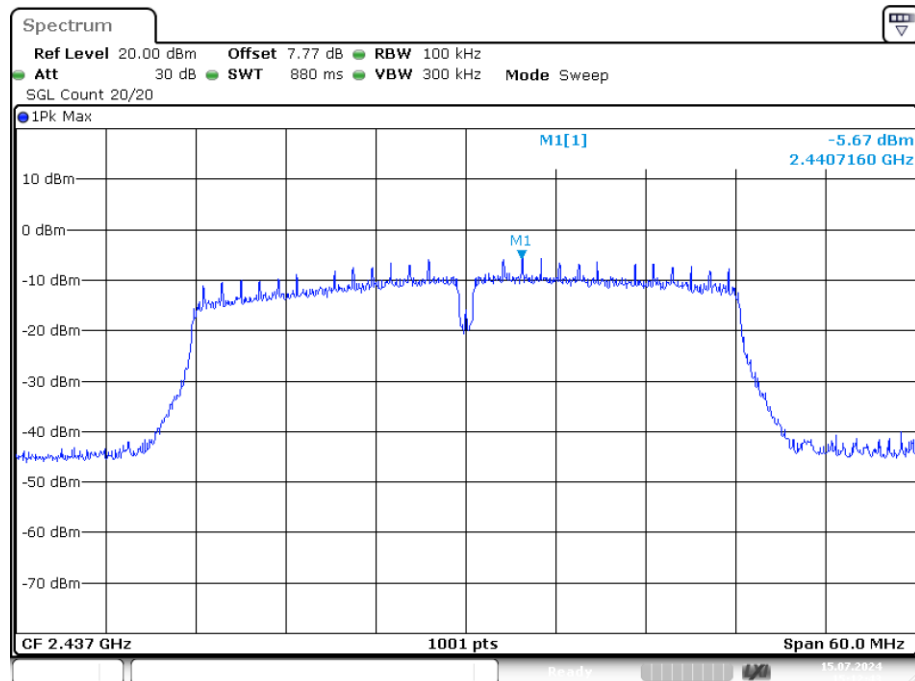


PSD NVNT n40 2422MHz Ant1



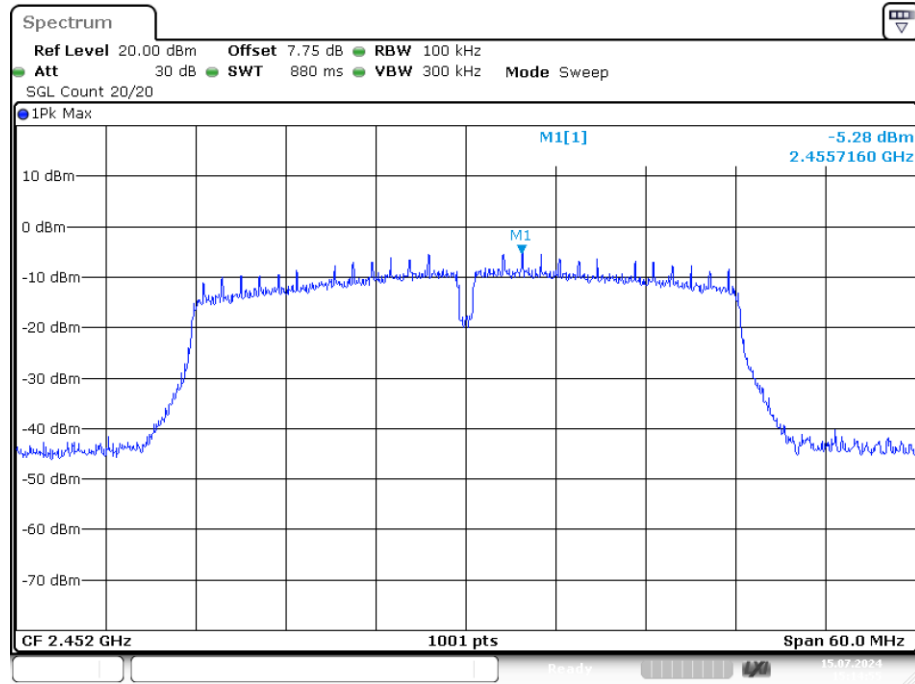
Date: 15.JUL.2024 15:10:05

PSD NVNT n40 2437MHz Ant1



Date: 15.JUL.2024 15:12:43

PSD NVNT n40 2452MHz Ant1



Date: 15.JUL.2024 15:14:55

7. BANDWIDTH

7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247

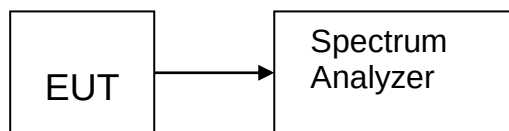
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

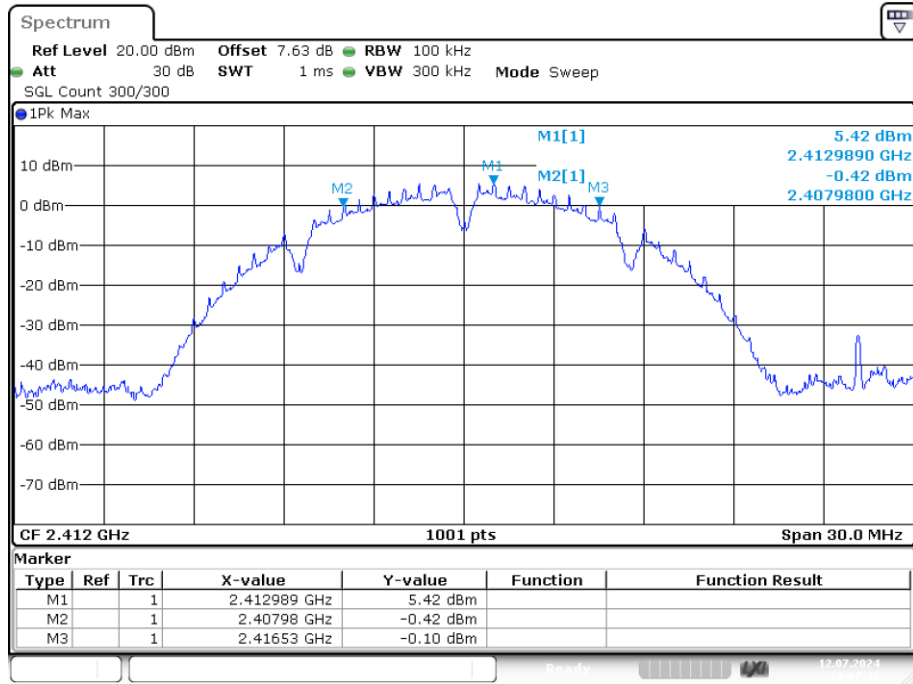
7.3. Test Setup



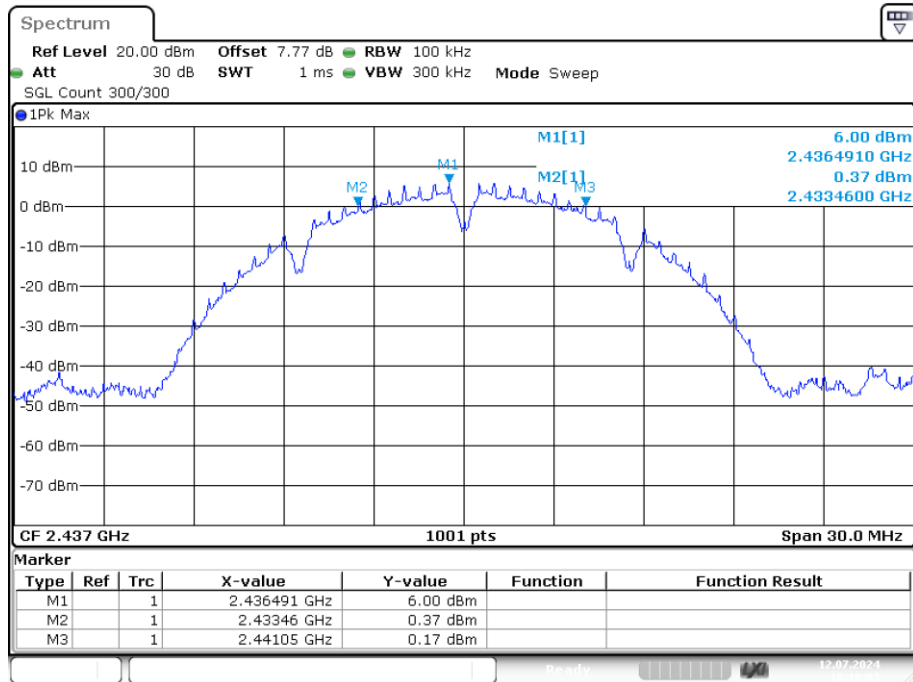
7.4. Test Results

-6dB Bandwidth

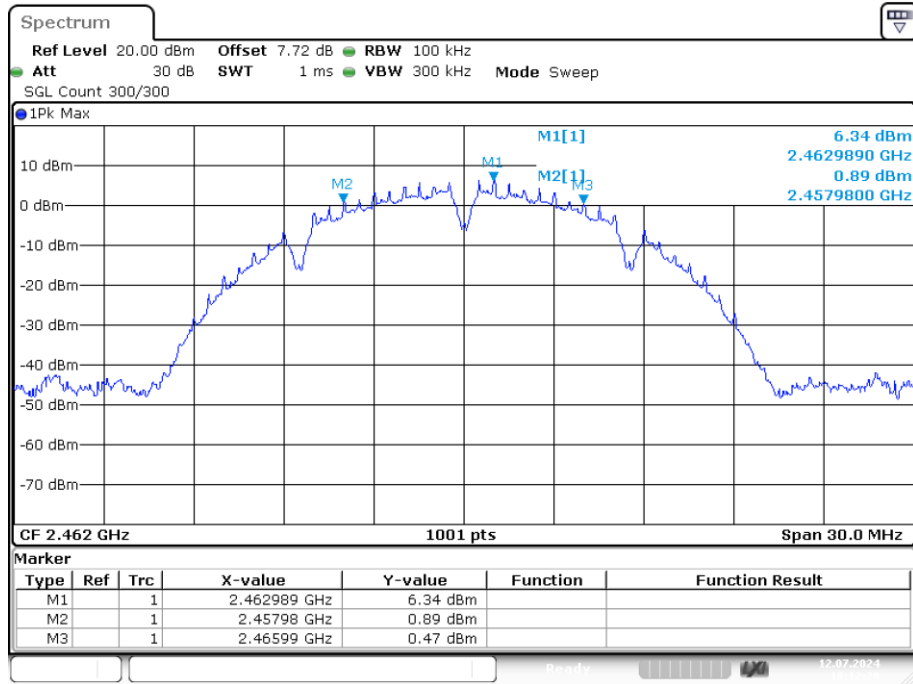
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.55	0.5	Pass
NVNT	b	2437	Ant1	7.59	0.5	Pass
NVNT	b	2462	Ant1	8.01	0.5	Pass
NVNT	g	2412	Ant1	14.46	0.5	Pass
NVNT	g	2437	Ant1	14.04	0.5	Pass
NVNT	g	2462	Ant1	14.76	0.5	Pass
NVNT	n20	2412	Ant1	14.19	0.5	Pass
NVNT	n20	2437	Ant1	15.72	0.5	Pass
NVNT	n20	2462	Ant1	15.09	0.5	Pass
NVNT	n40	2422	Ant1	31.32	0.5	Pass
NVNT	n40	2437	Ant1	35.1	0.5	Pass
NVNT	n40	2452	Ant1	31.38	0.5	Pass

-6dB Bandwidth NVNT b 2412MHz Ant1

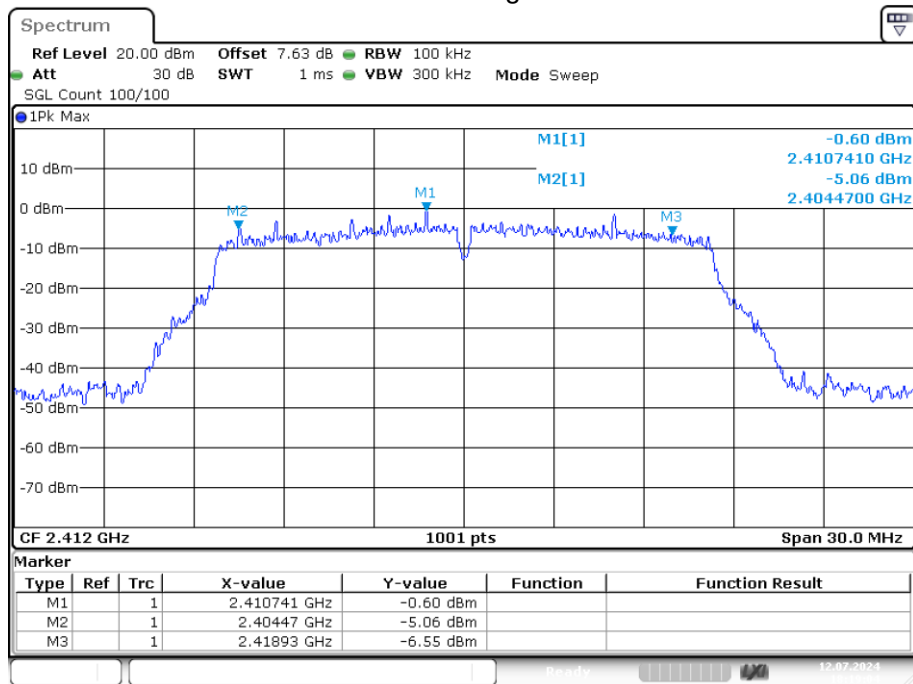
Date: 12.JUL.2024 18:07:31

-6dB Bandwidth NVNT b 2437MHz Ant1

Date: 12.JUL.2024 18:10:03

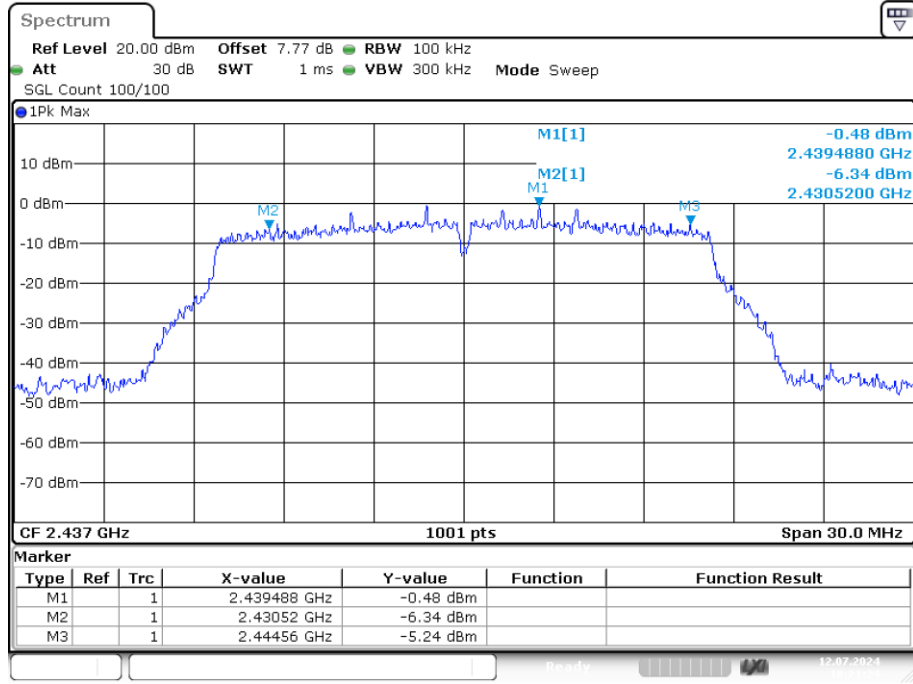
-6dB Bandwidth NVNT b 2462MHz Ant1

Date: 12.JUL.2024 18:12:28

-6dB Bandwidth NVNT g 2412MHz Ant1

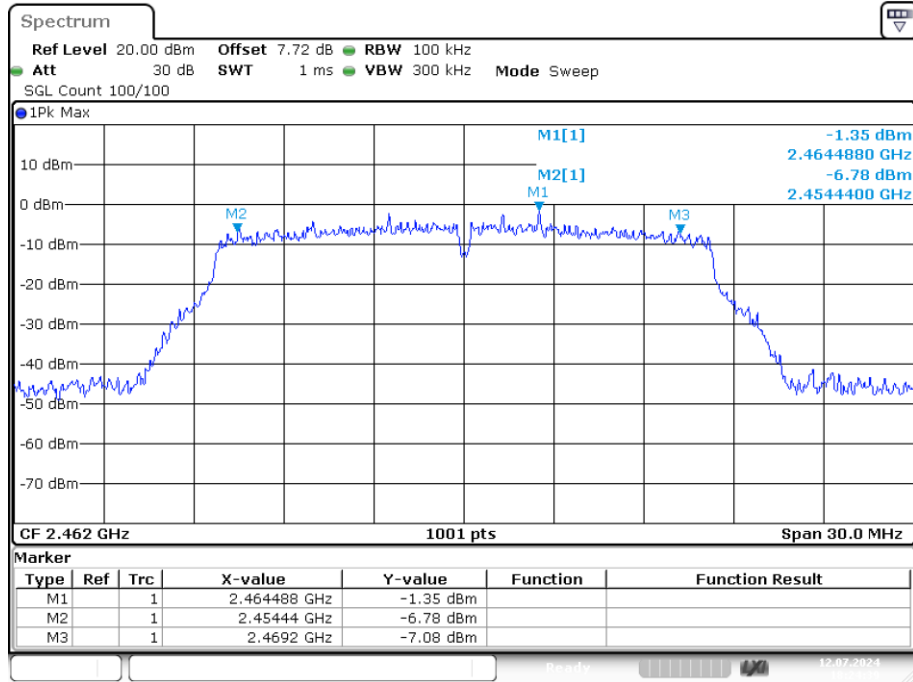
Date: 12.JUL.2024 18:19:04

-6dB Bandwidth NVNT g 2437MHz Ant1



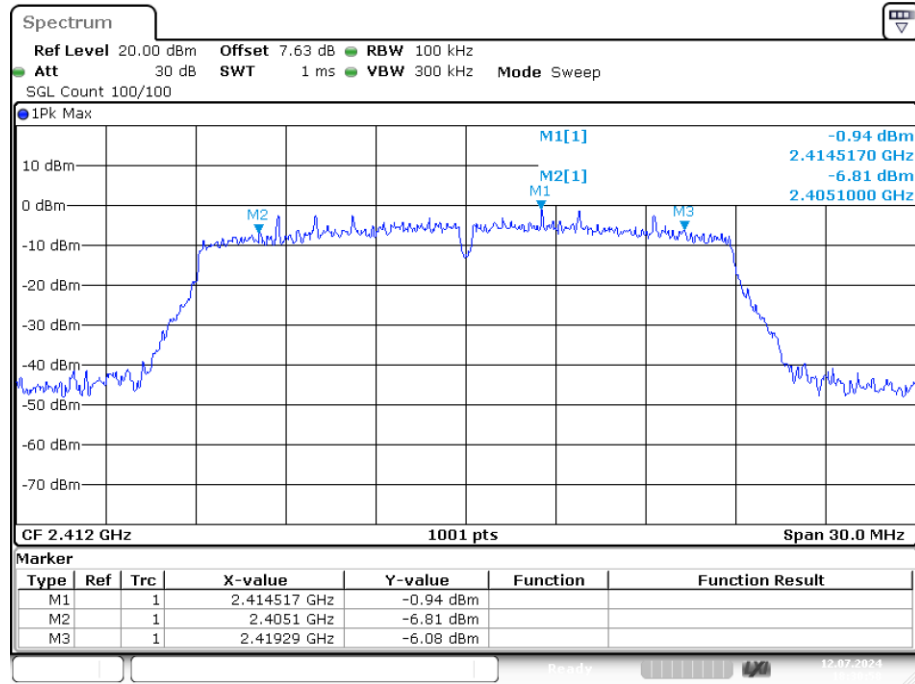
Date: 12.JUL.2024 18:21:24

-6dB Bandwidth NVNT g 2462MHz Ant1



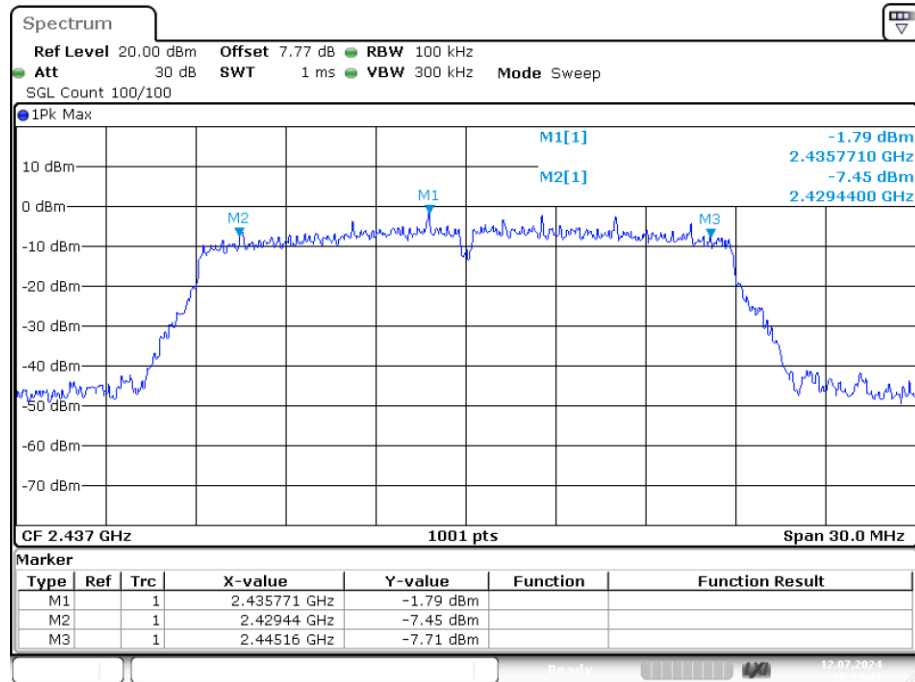
Date: 12.JUL.2024 18:24:39

-6dB Bandwidth NVNT n20 2412MHz Ant1

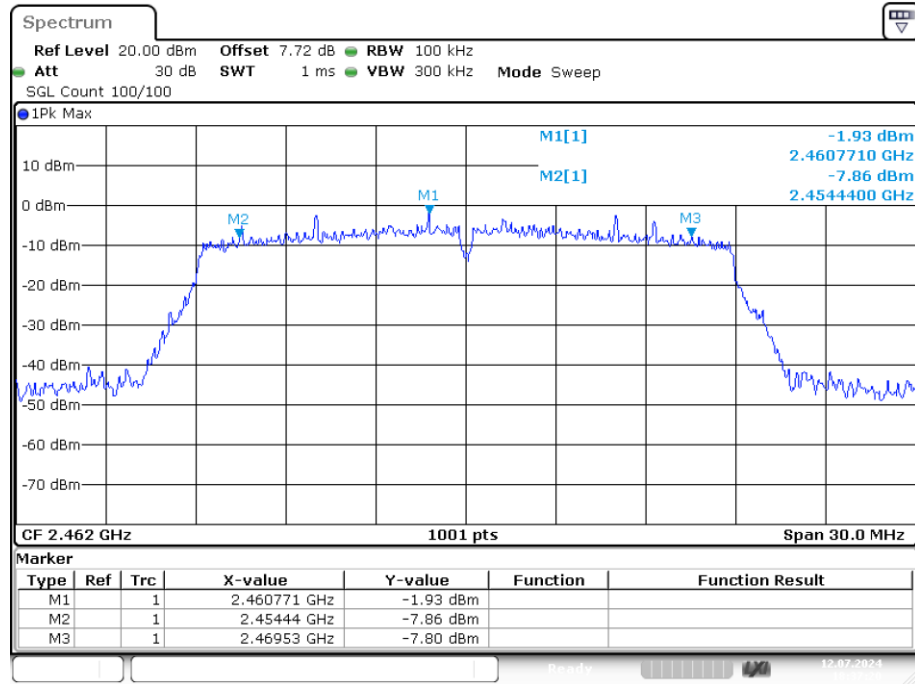


Date: 12.JUL.2024 18:30:58

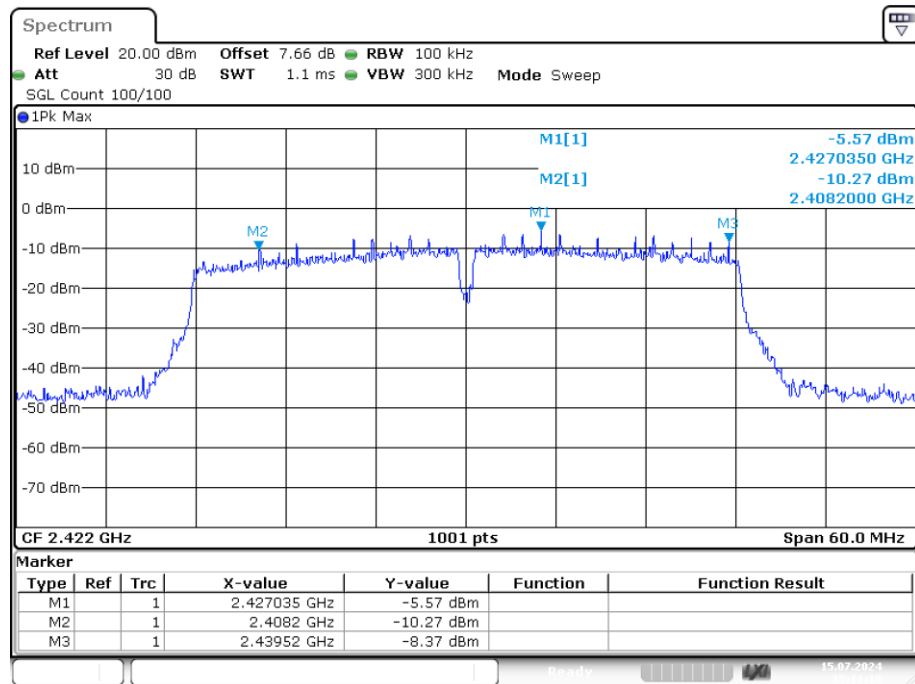
-6dB Bandwidth NVNT n20 2437MHz Ant1



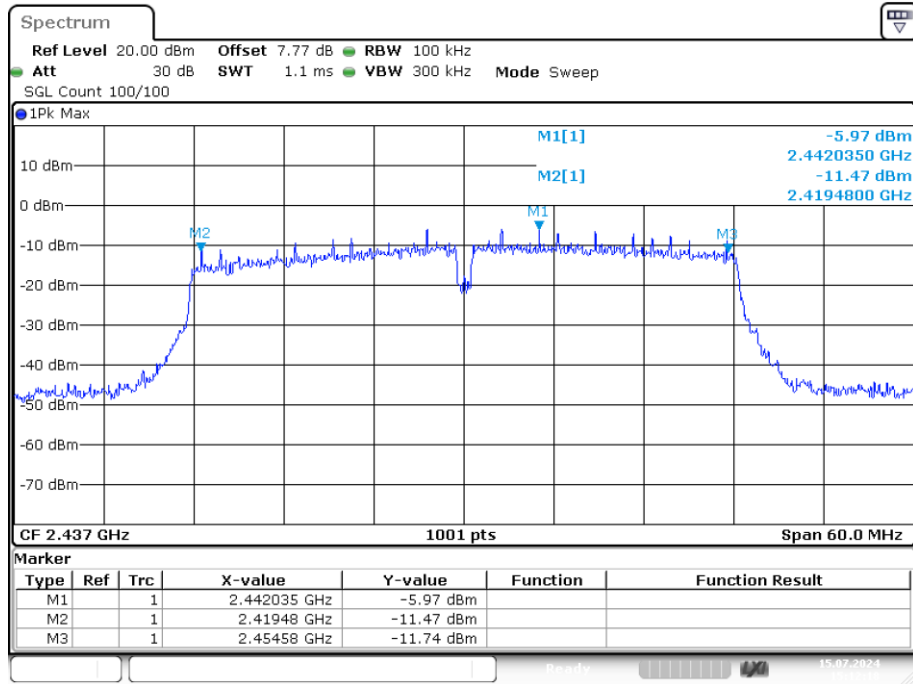
Date: 12.JUL.2024 18:34:47

-6dB Bandwidth NVNT n20 2462MHz Ant1

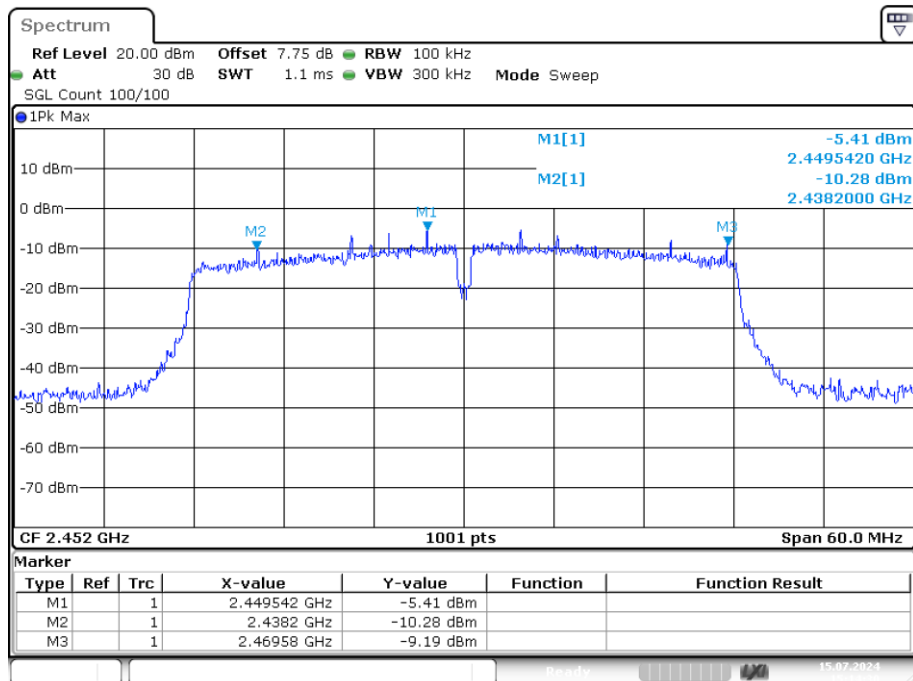
Date: 12.JUL.2024 18:37:20

-6dB Bandwidth NVNT n40 2422MHz Ant1

Date: 15.JUL.2024 15:11:10

-6dB Bandwidth NVNT n40 2437MHz Ant1

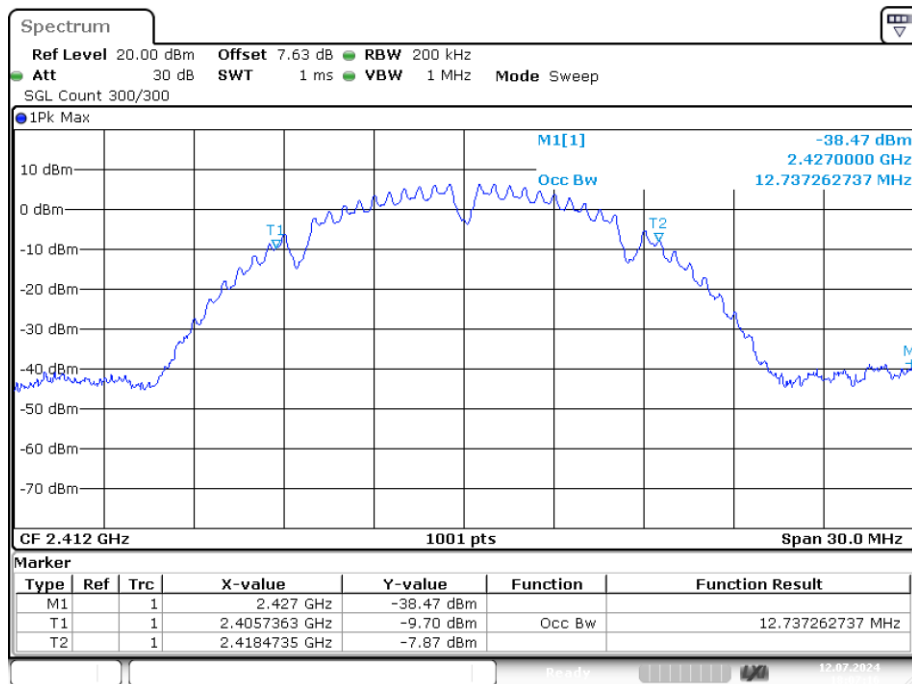
Date: 15.JUL.2024 15:12:18

-6dB Bandwidth NVNT n40 2452MHz Ant1

Date: 15.JUL.2024 15:14:30

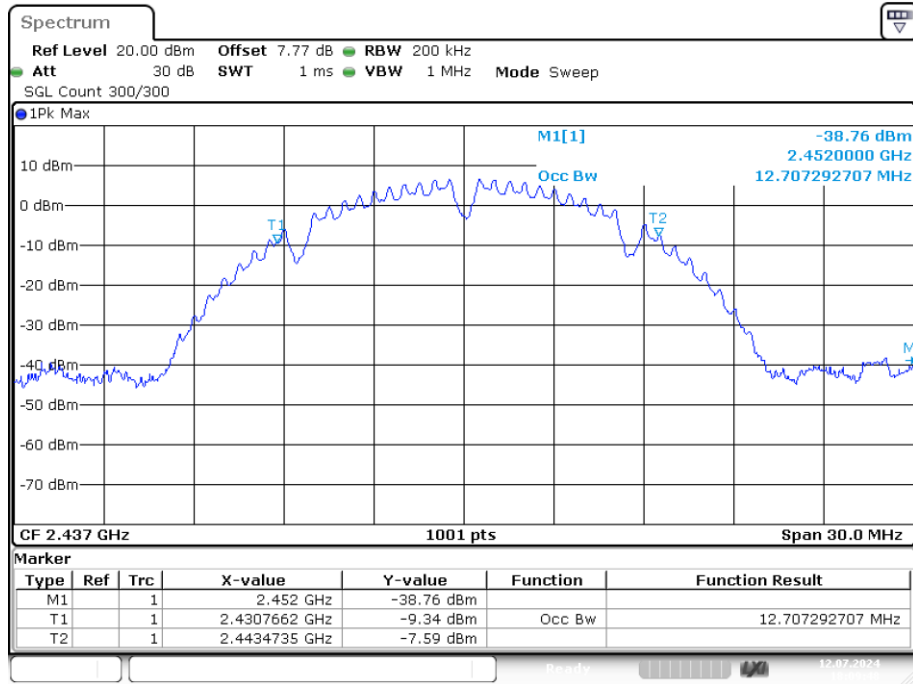
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.737
NVNT	b	2437	Ant1	12.707
NVNT	b	2462	Ant1	12.737
NVNT	g	2412	Ant1	16.394
NVNT	g	2437	Ant1	16.454
NVNT	g	2462	Ant1	16.364
NVNT	n20	2412	Ant1	17.532
NVNT	n20	2437	Ant1	17.562
NVNT	n20	2462	Ant1	17.532
NVNT	n40	2422	Ant1	36.084
NVNT	n40	2437	Ant1	36.084
NVNT	n40	2452	Ant1	35.904

OBW NVNT b 2412MHz Ant1

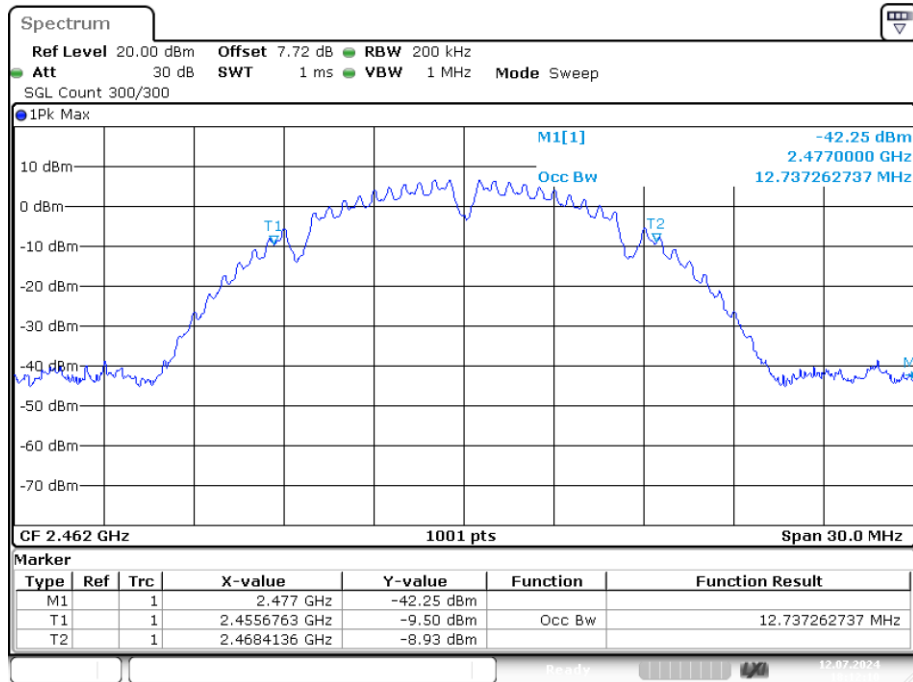
Date: 12.JUL.2024 18:07:16

OBW NVNT b 2437MHz Ant1



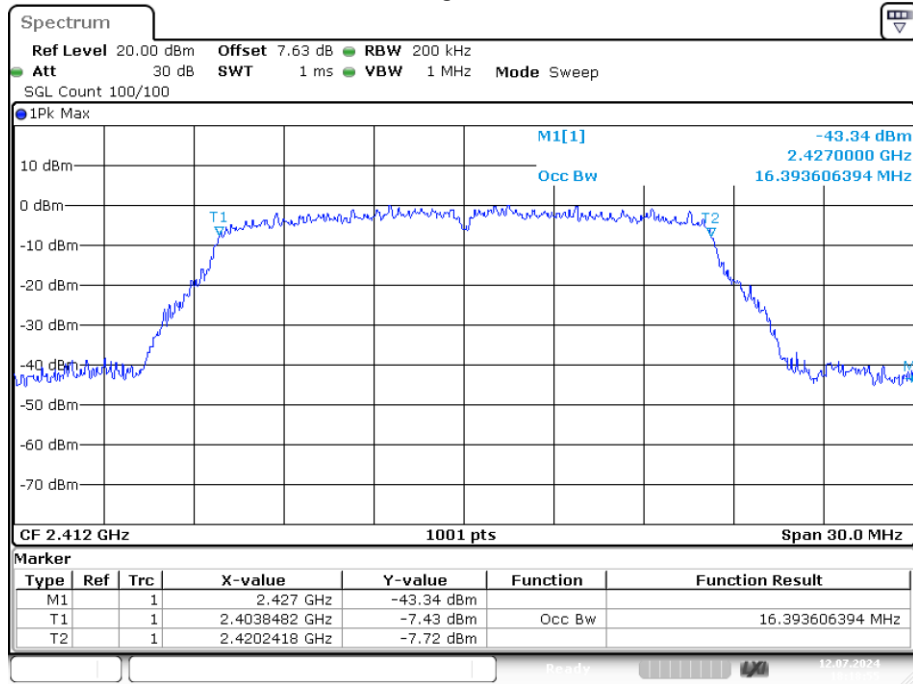
Date: 12.JUL.2024 18:09:47

OBW NVNT b 2462MHz Ant1



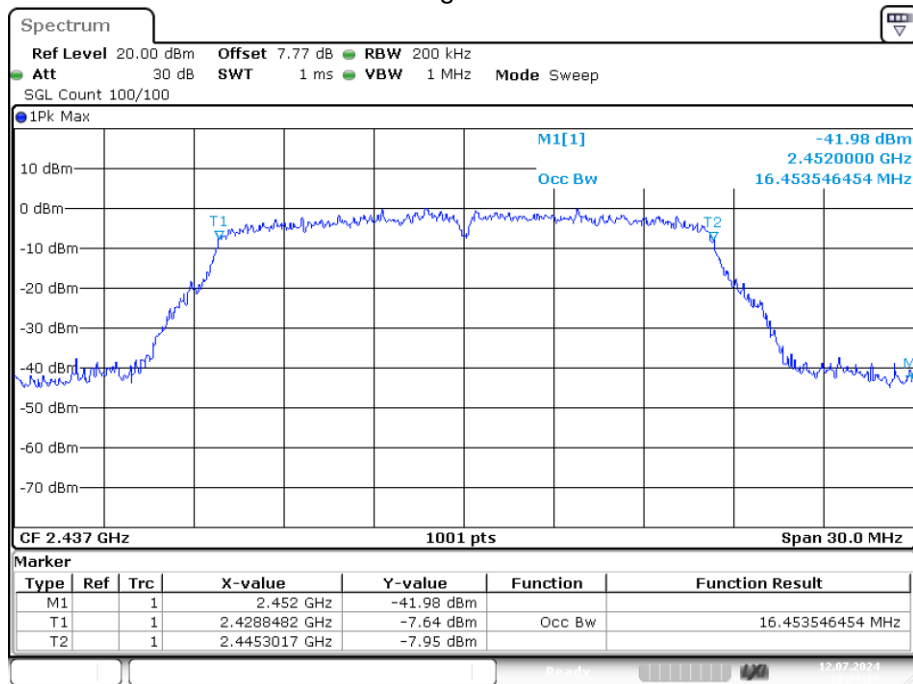
Date: 12.JUL.2024 18:12:11

OBW NVNT g 2412MHz Ant1



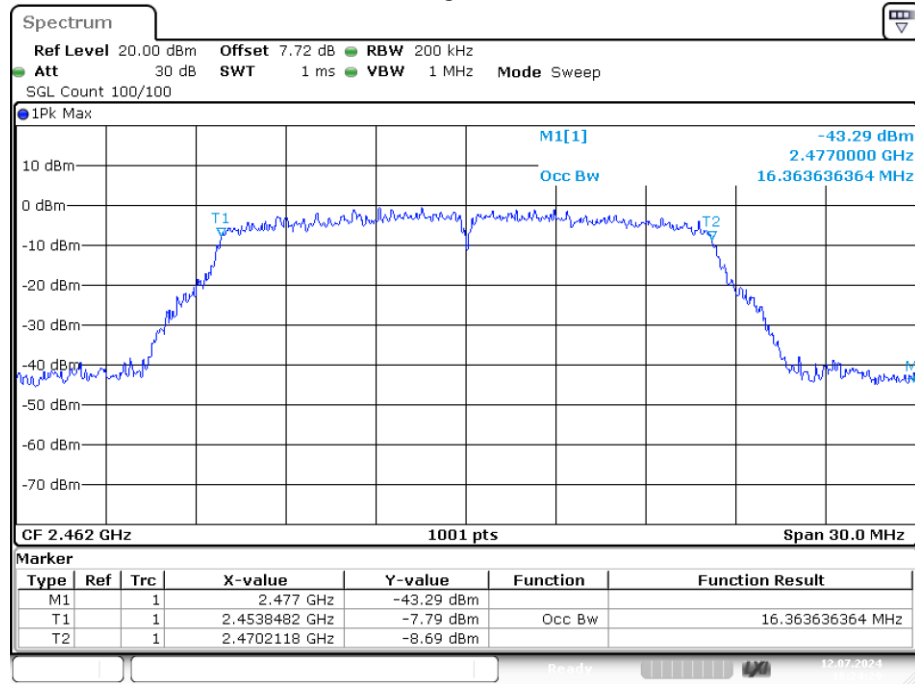
Date: 12.JUL.2024 18:18:55

OBW NVNT g 2437MHz Ant1



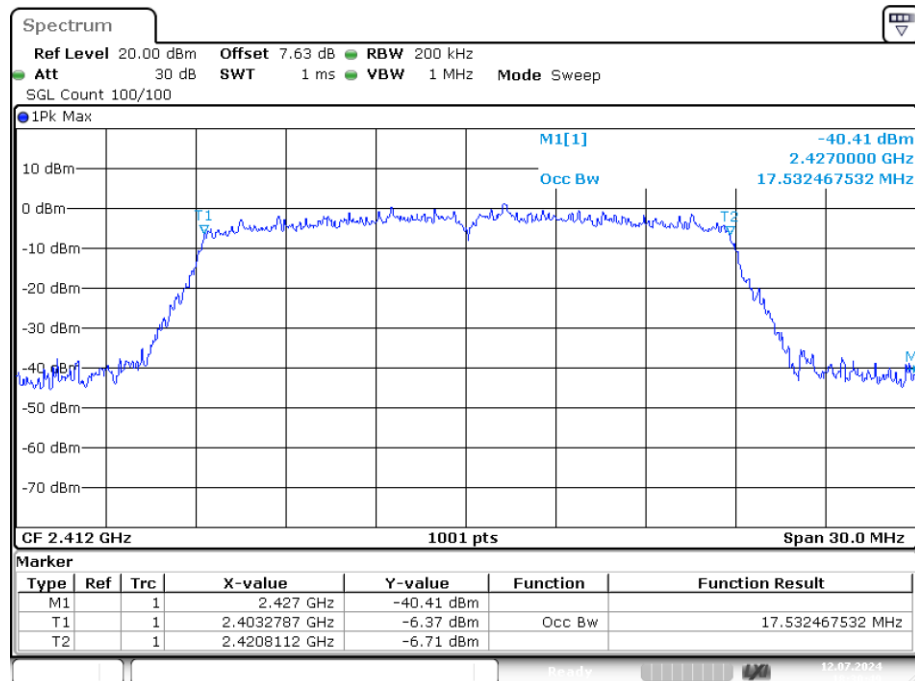
Date: 12.JUL.2024 18:21:15

OBW NVNT g 2462MHz Ant1



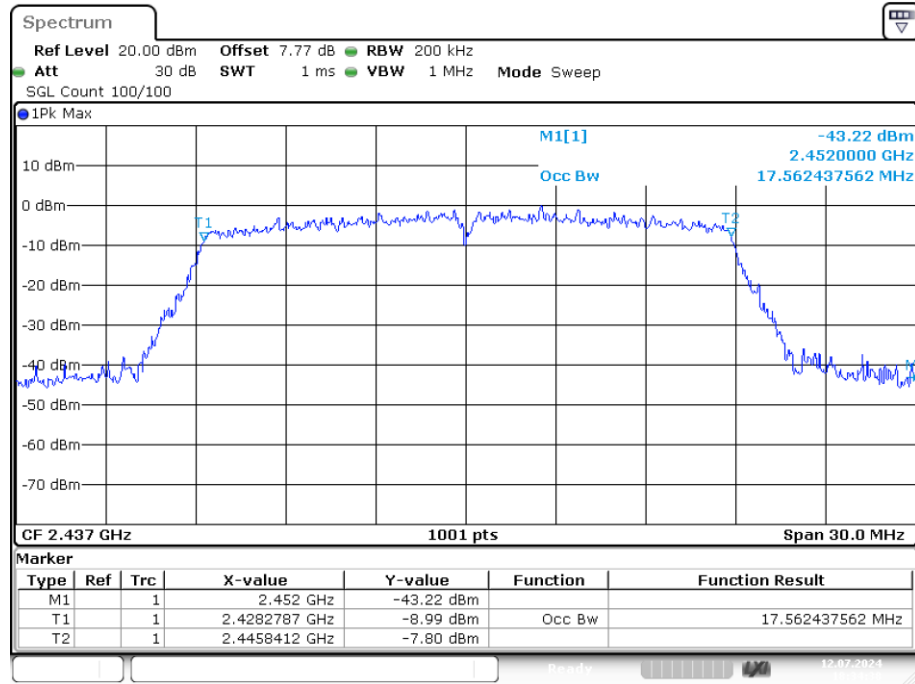
Date: 12.JUL.2024 18:24:29

OBW NVNT n20 2412MHz Ant1



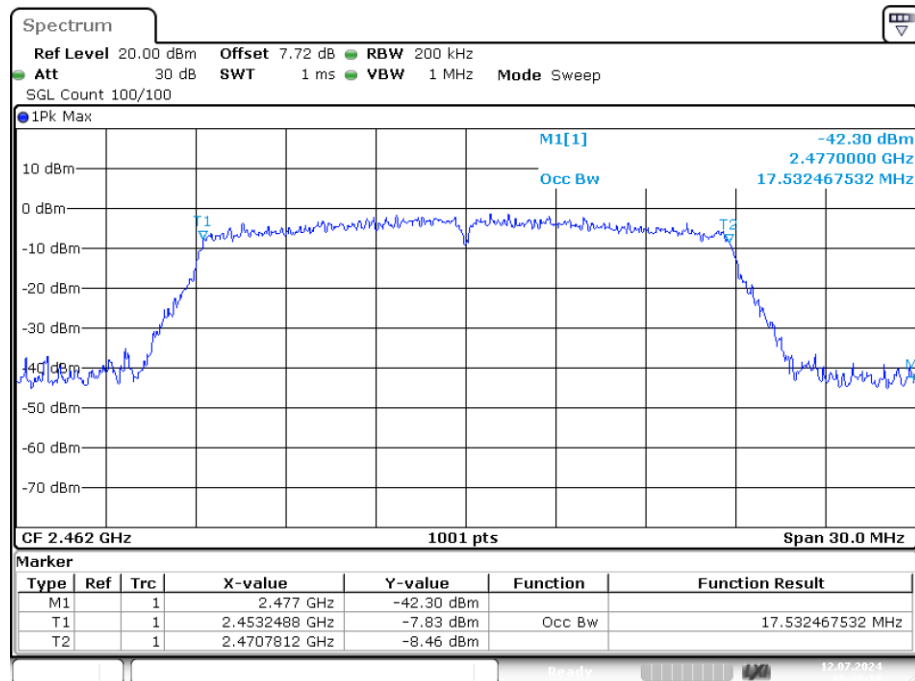
Date: 12.JUL.2024 18:30:49

OBW NVNT n20 2437MHz Ant1



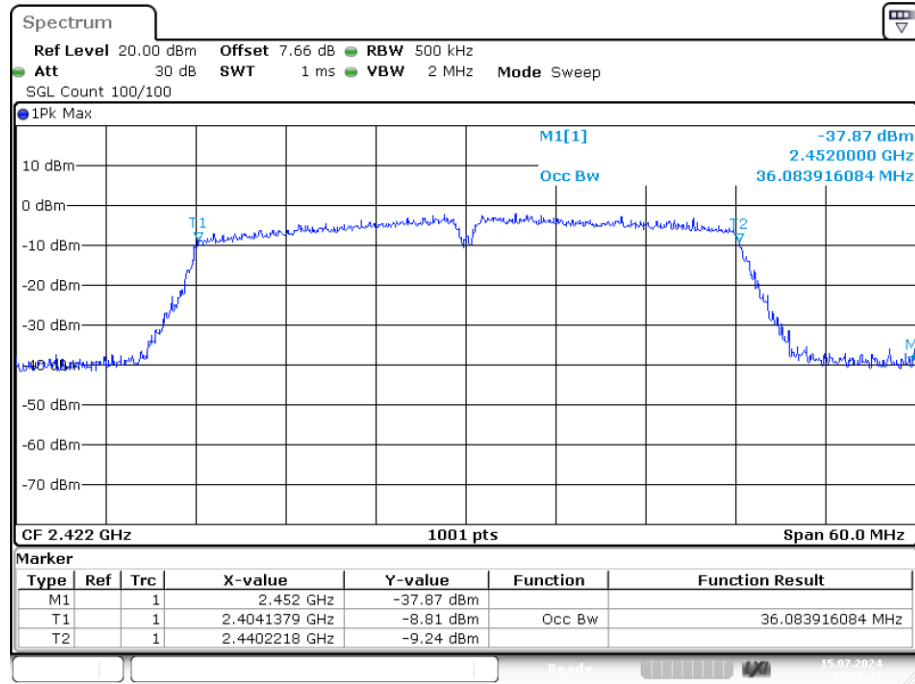
Date: 12.JUL.2024 18:34:37

OBW NVNT n20 2462MHz Ant1



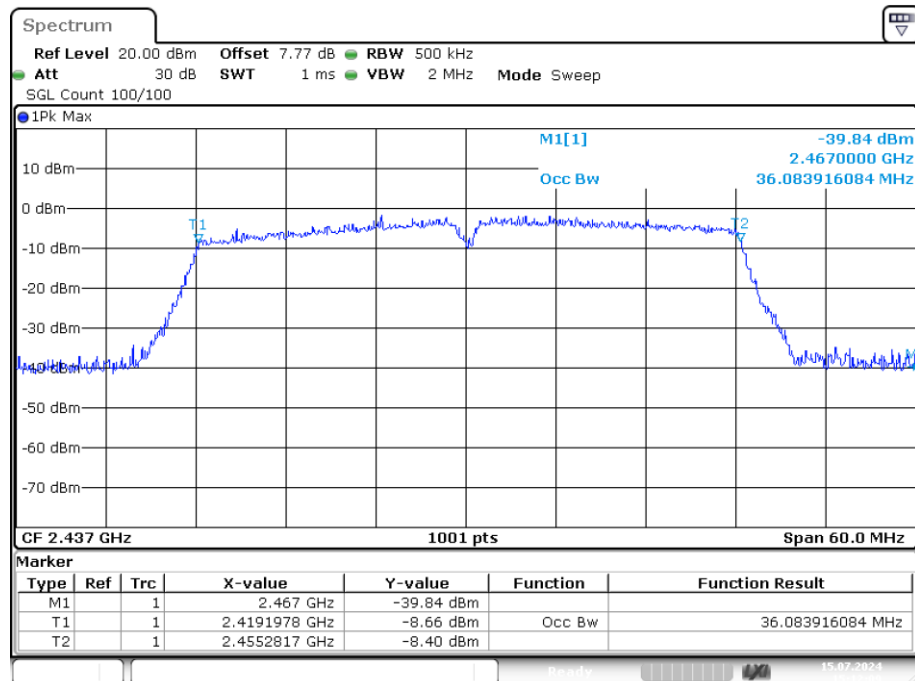
Date: 12.JUL.2024 18:37:09

OBW NVNT n40 2422MHz Ant1



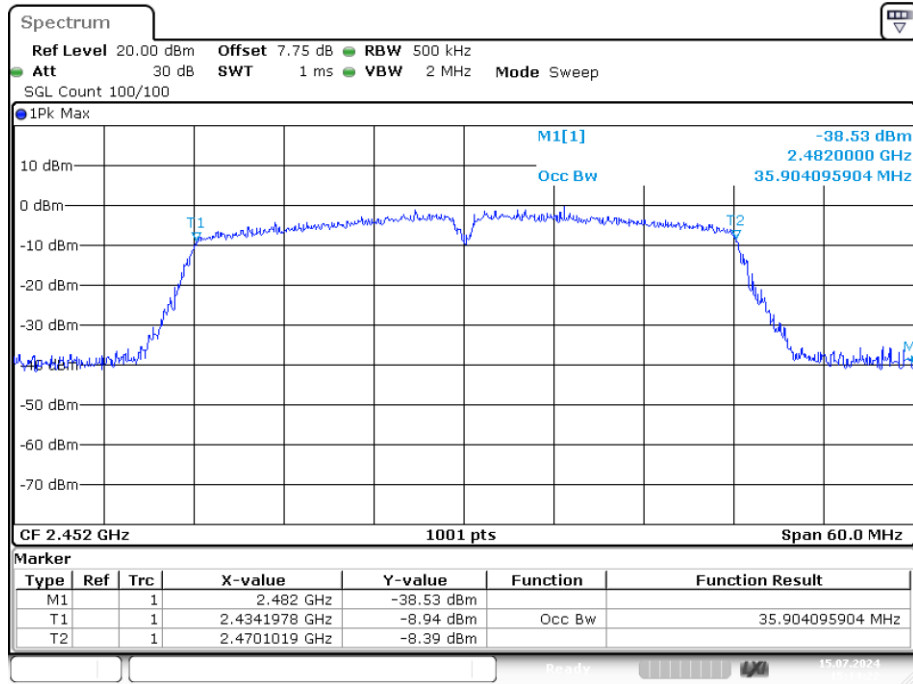
Date: 15.JUL.2024 15:09:32

OBW NVNT n40 2437MHz Ant1



Date: 15.JUL.2024 15:12:10

OBW NVNT n40 2452MHz Ant1



Date: 15.JUL.2024 15:14:21

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

8.2.1 For radiated method:

- 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
- 2) Check the spurious emissions out of band.
- 3) RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

8.2.2 For conducted method:

- 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products that fall outside of the authorized band of operation.
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: No faster than coupled (auto) time.
- 5) Resolution bandwidth: 100 kHz.⁵⁴
- 6) Video bandwidth: 300 kHz.
- 7) Detector: Peak.
- 8) Trace: Max-hold.

8.3. Test Setup

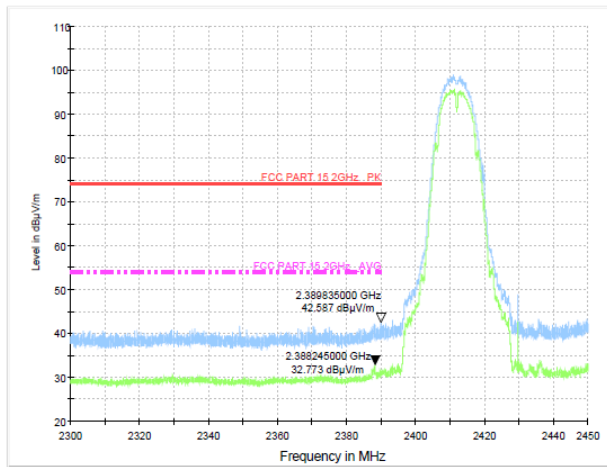
Same as 5.2.2.

8.4. Test Results

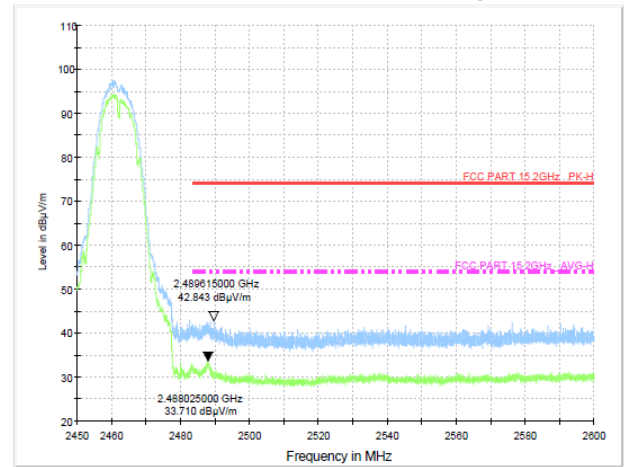
PASS.

Detailed information please see the following page.

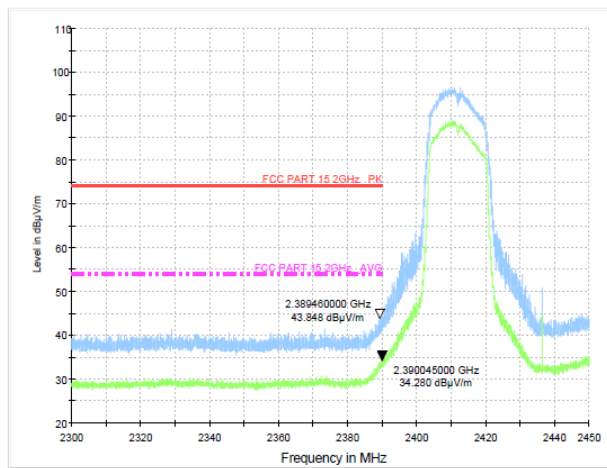
Test Mode: IEEE 802.11b-Low



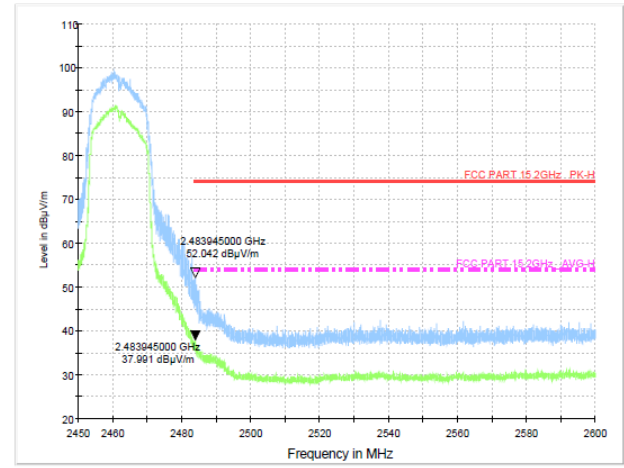
Test Mode: IEEE 802.11b-High



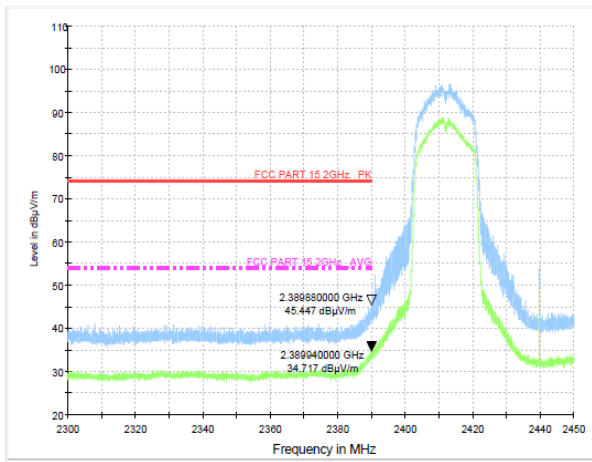
Test Mode: IEEE 802.11g-Low



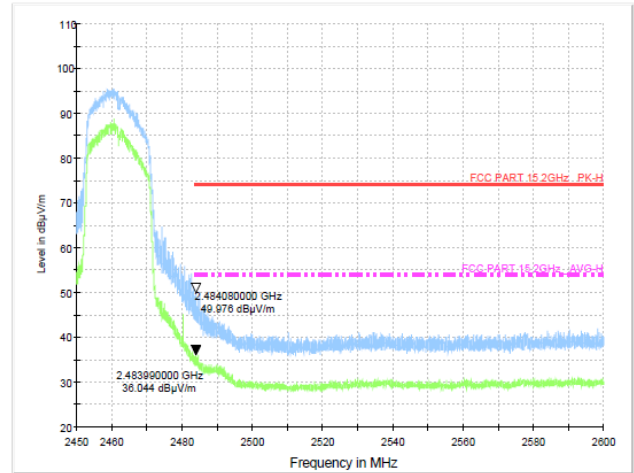
Test Mode: IEEE 802.11g-High



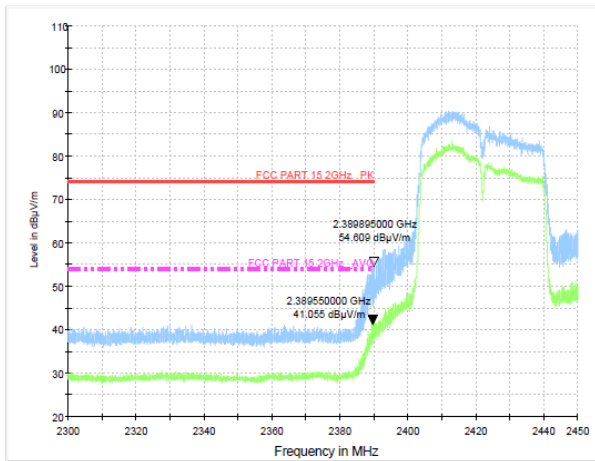
Test Mode: IEEE 802.11n20-Low



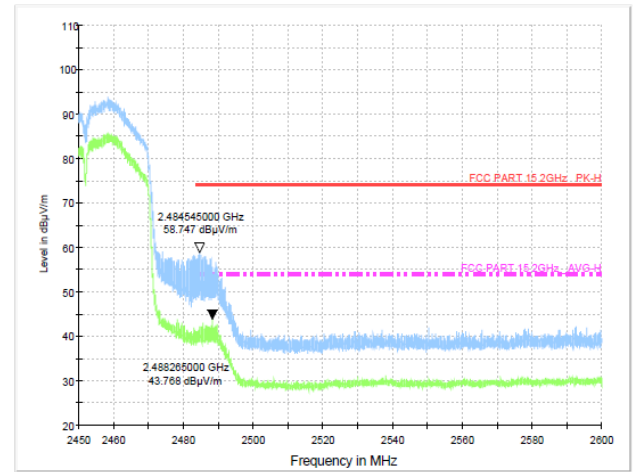
Test Mode: IEEE 802.11n20-High



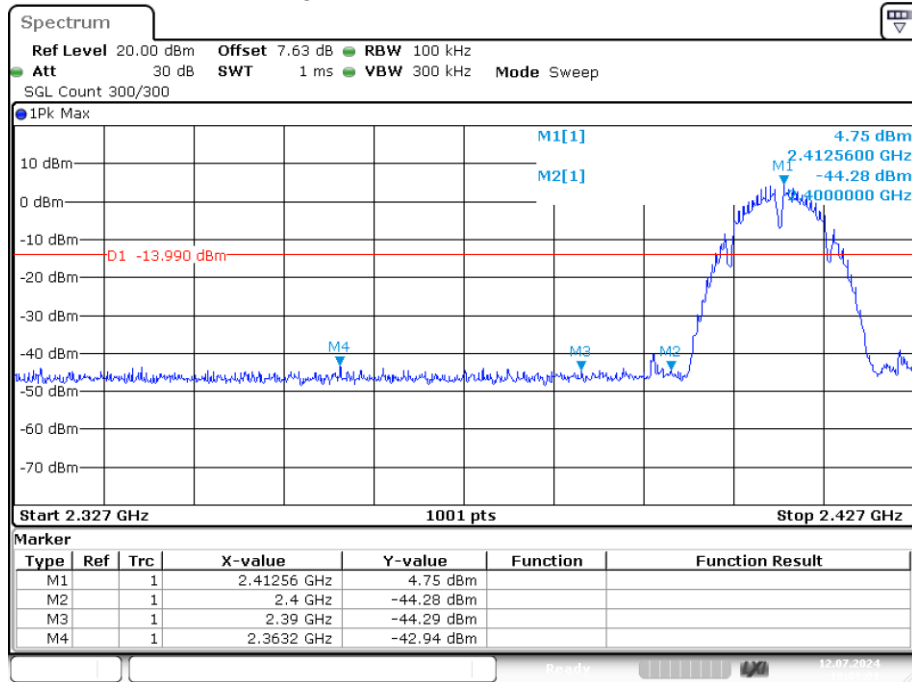
Test Mode: IEEE 802.11n40-Low



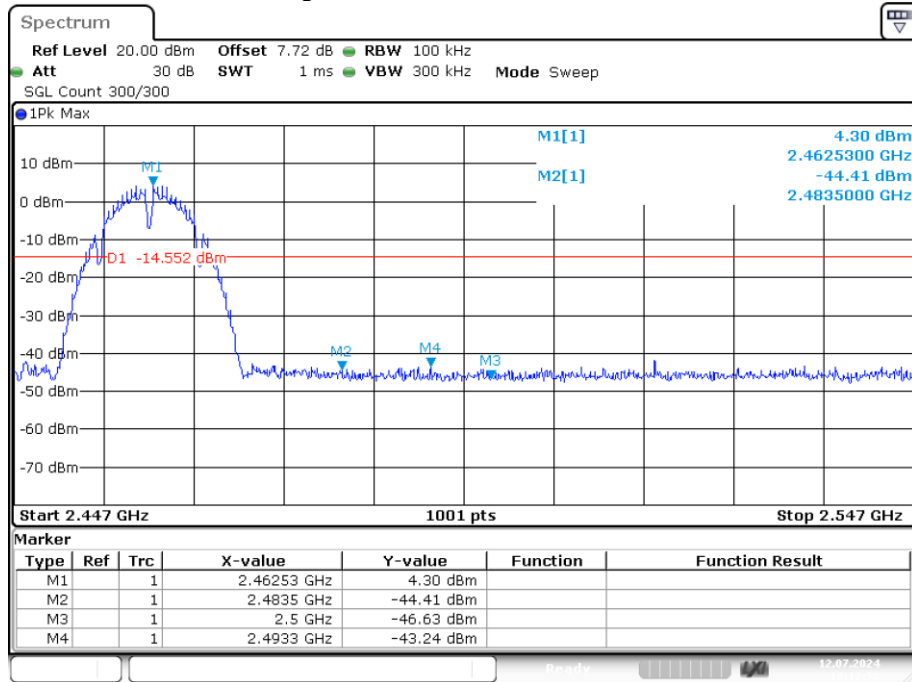
Test Mode: IEEE 802.11n40-High



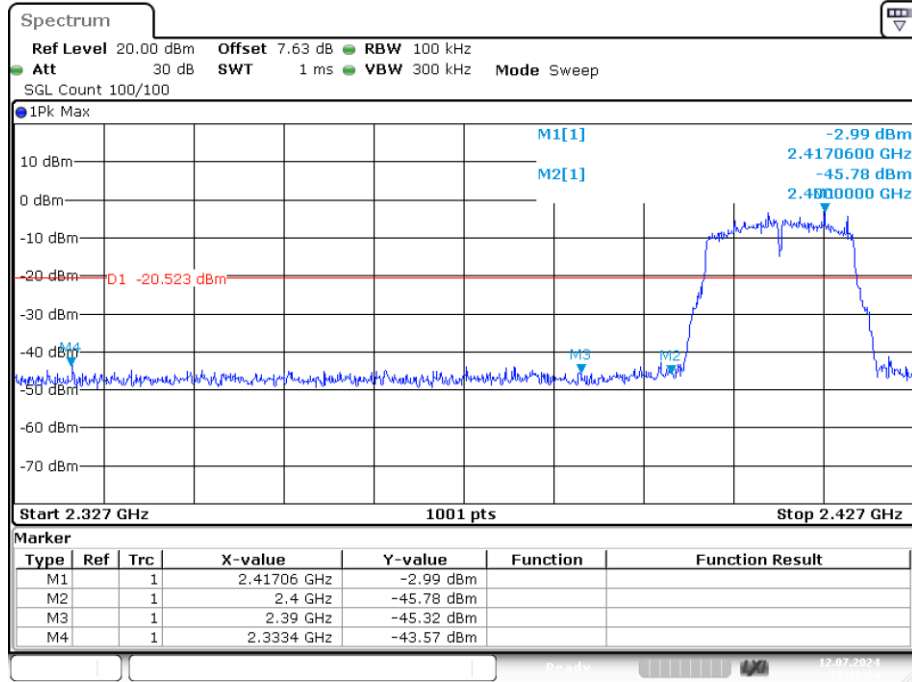
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Emission

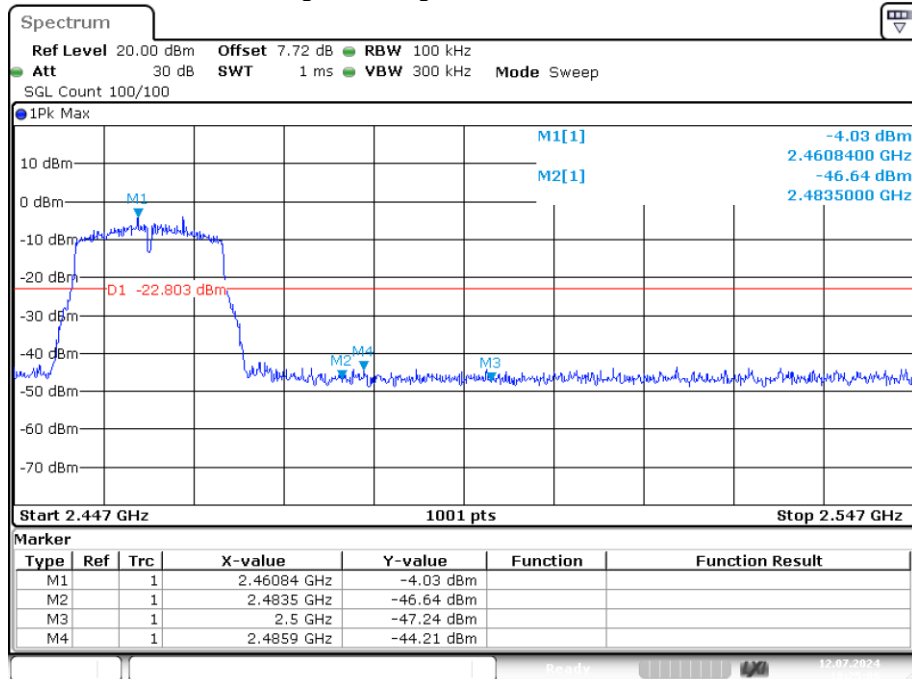


Band Edge NVNT g 2412MHz Ant1 Emission



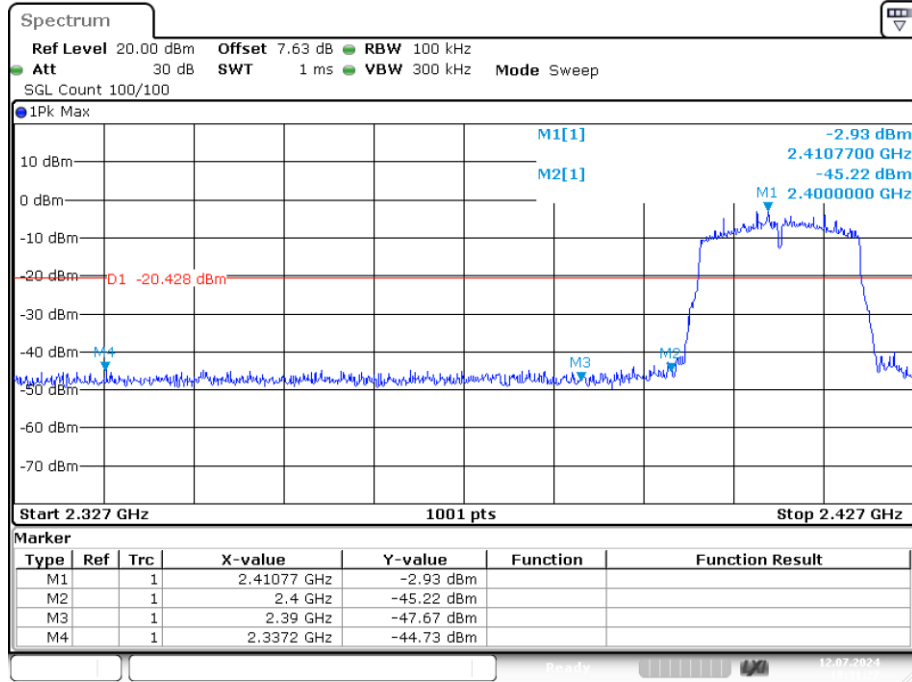
Date: 12.JUL.2024 18:19:23

Band Edge NVNT g 2462MHz Ant1 Emission



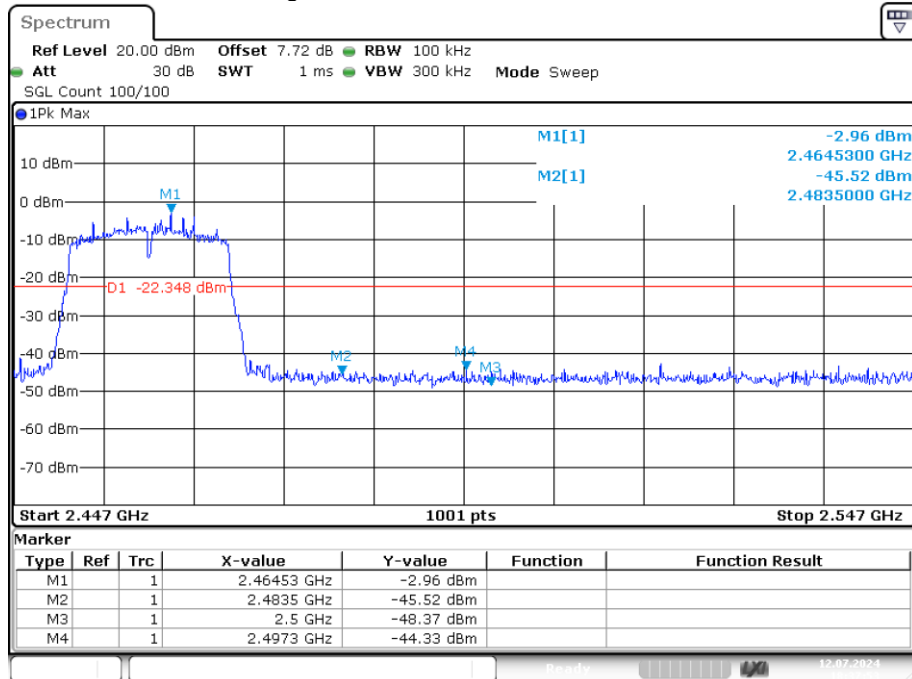
Date: 12.JUL.2024 18:25:08

Band Edge NVNT n20 2412MHz Ant1 Emission



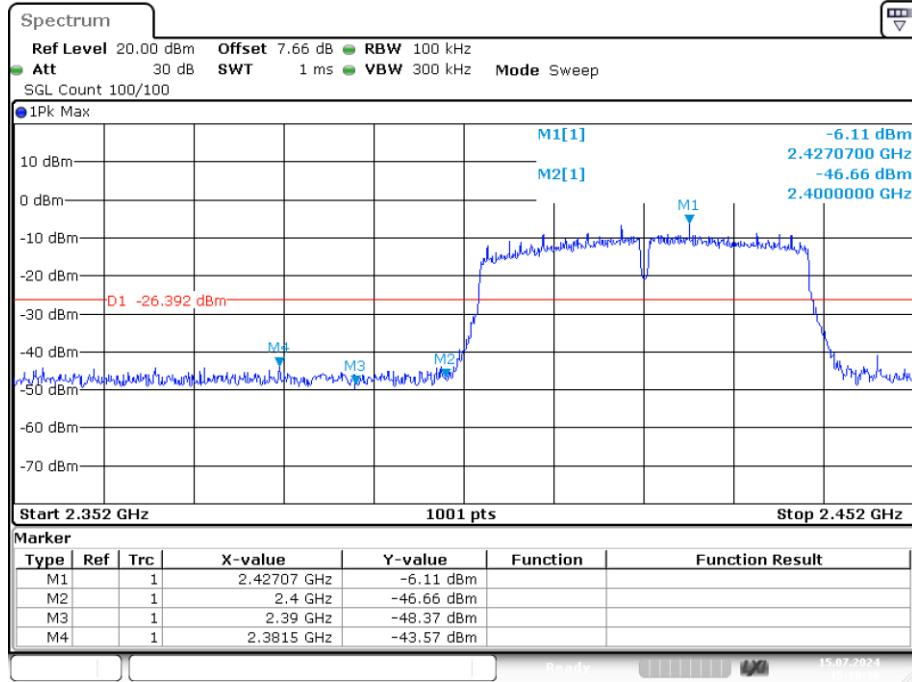
Date: 12.JUL.2024 18:31:26

Band Edge NVNT n20 2462MHz Ant1 Emission



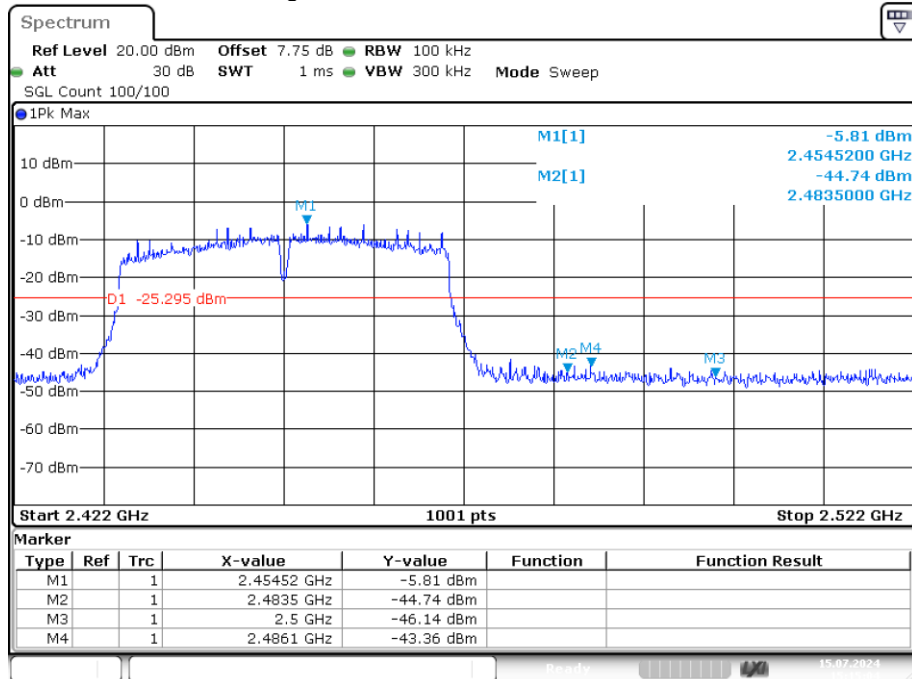
Date: 12.JUL.2024 18:37:53

Band Edge NVNT n40 2422MHz Ant1 Emission



Date: 15.JUL.2024 15:10:15

Band Edge NVNT n40 2452MHz Ant1 Emission



Date: 15.JUL.2024 15:15:05

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

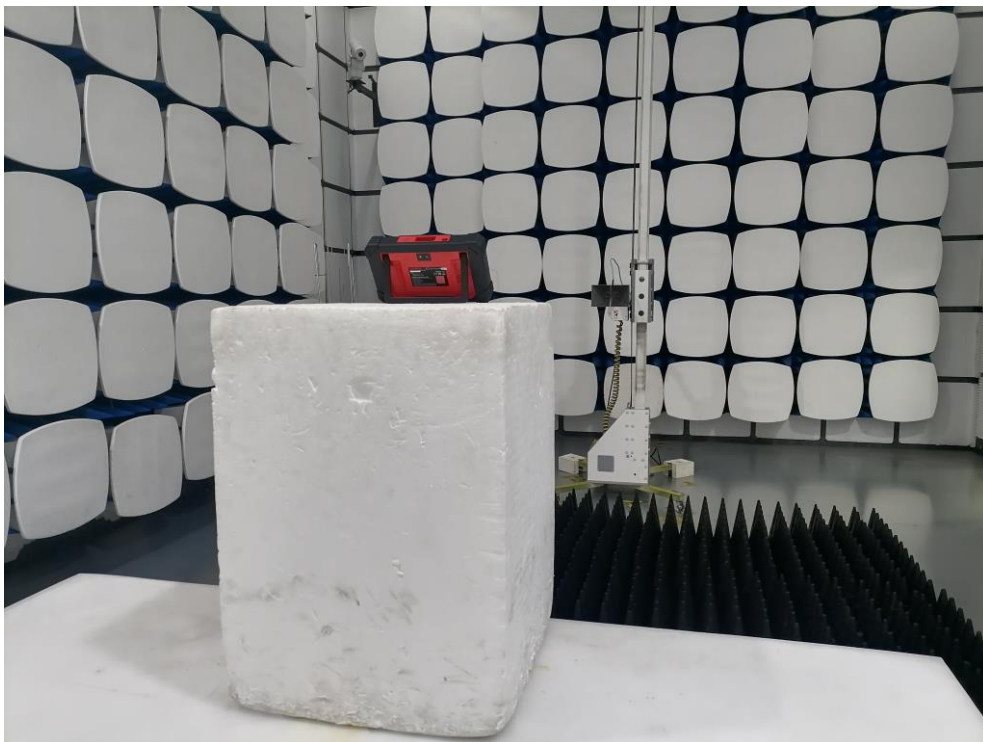
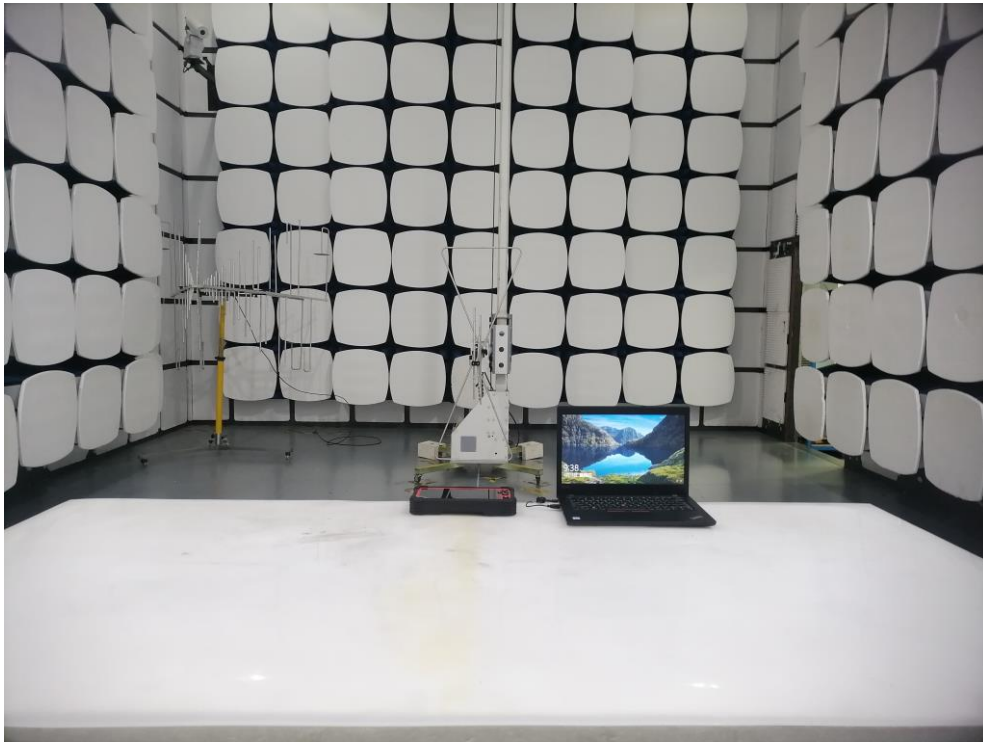
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

9.3. Results

The EUT antenna is FPC antenna. It complies with the standard requirement.

10. TEST SETUP PHOTO

10.1. Photos of Radiated emission



10.2.Photos of Conducted Emission test



-----END OF REPORT-----