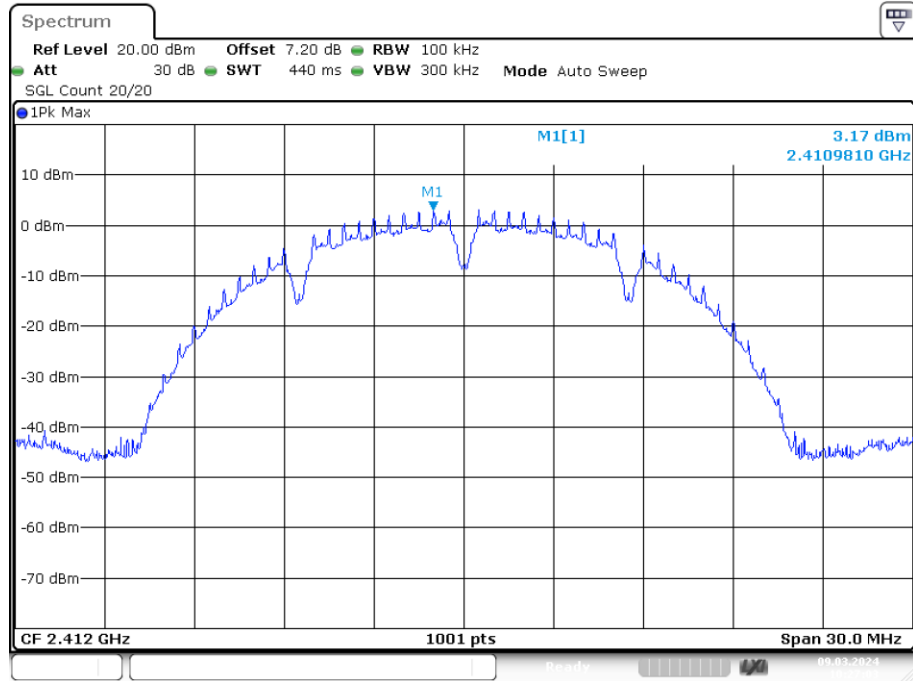
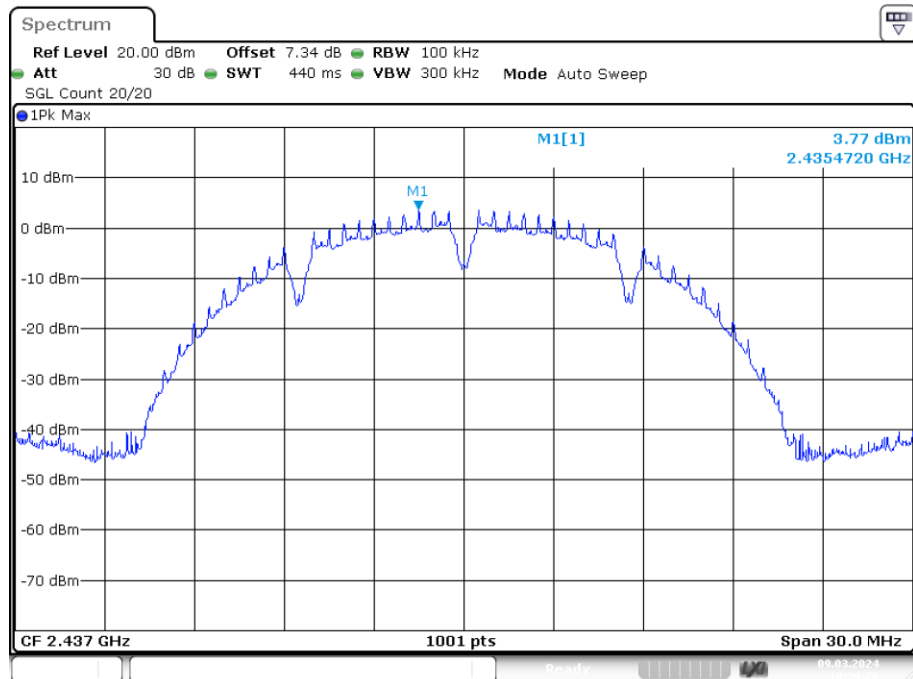


PSD NVNT b 2412MHz Ant B



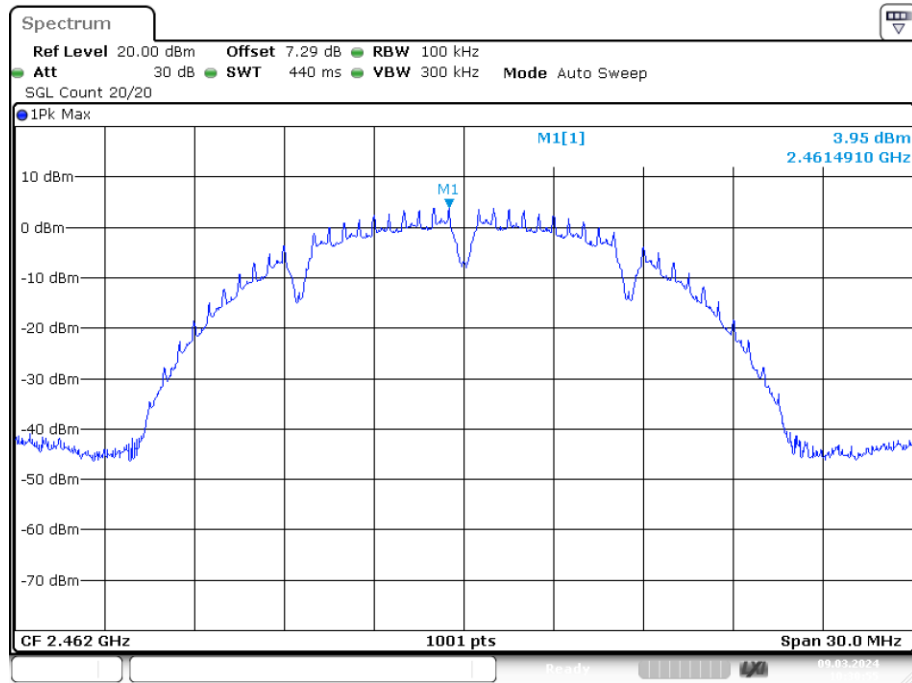
Date: 9.MAR.2024 10:27:03

PSD NVNT b 2437MHz Ant B



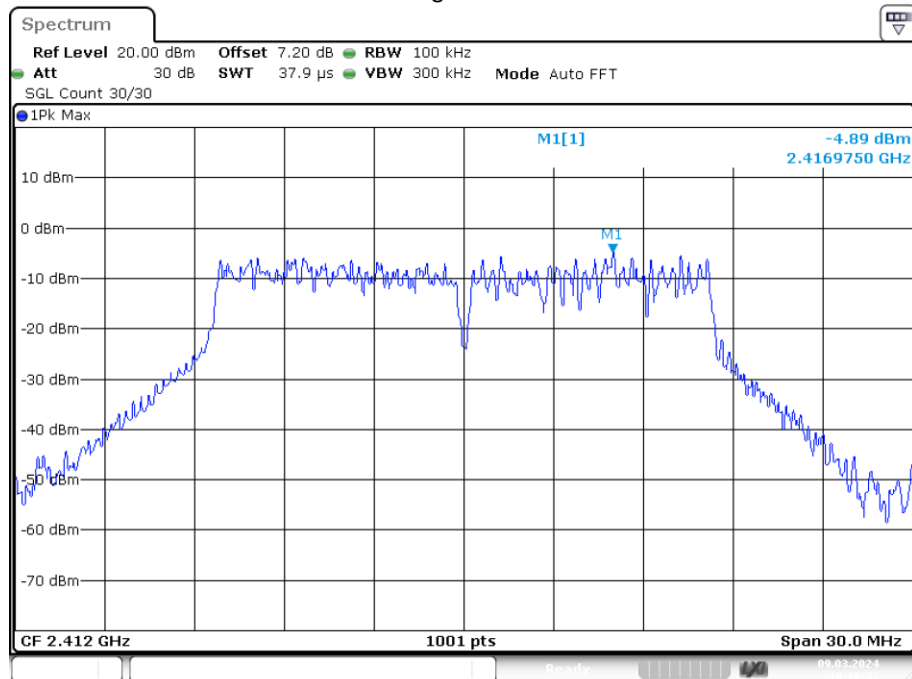
Date: 9.MAR.2024 10:29:28

PSD NVNT b 2462MHz Ant B



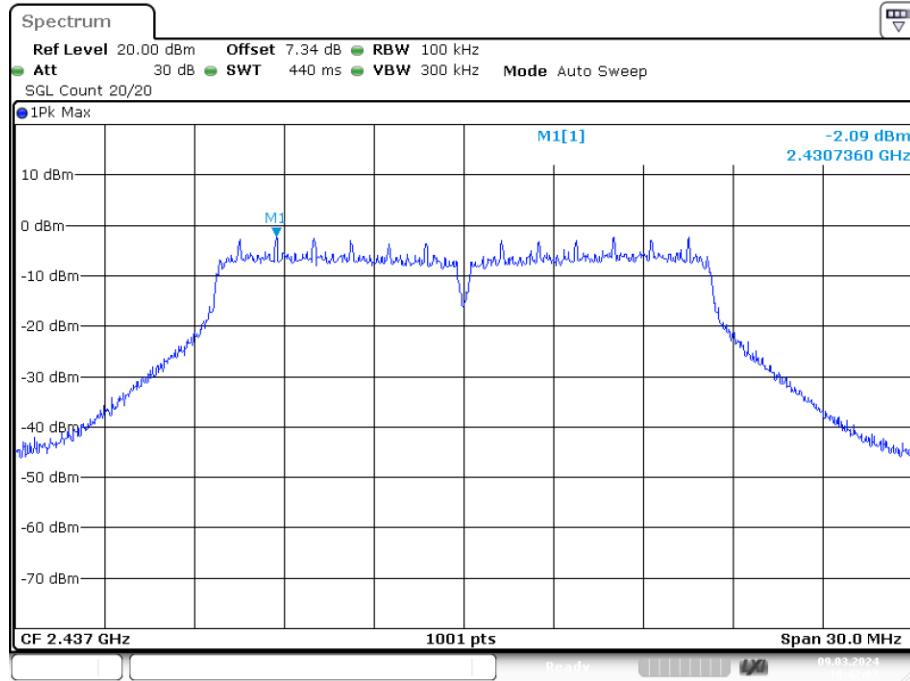
Date: 9.MAR.2024 10:30:55

PSD NVNT g 2412MHz Ant B



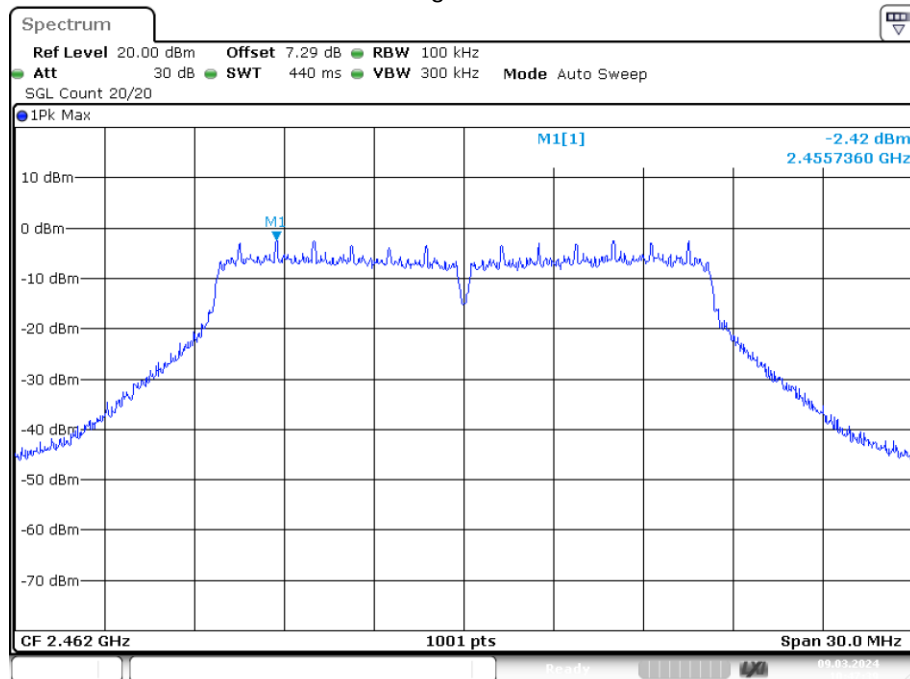
Date: 9.MAR.2024 10:36:32

PSD NVNT g 2437MHz Ant B



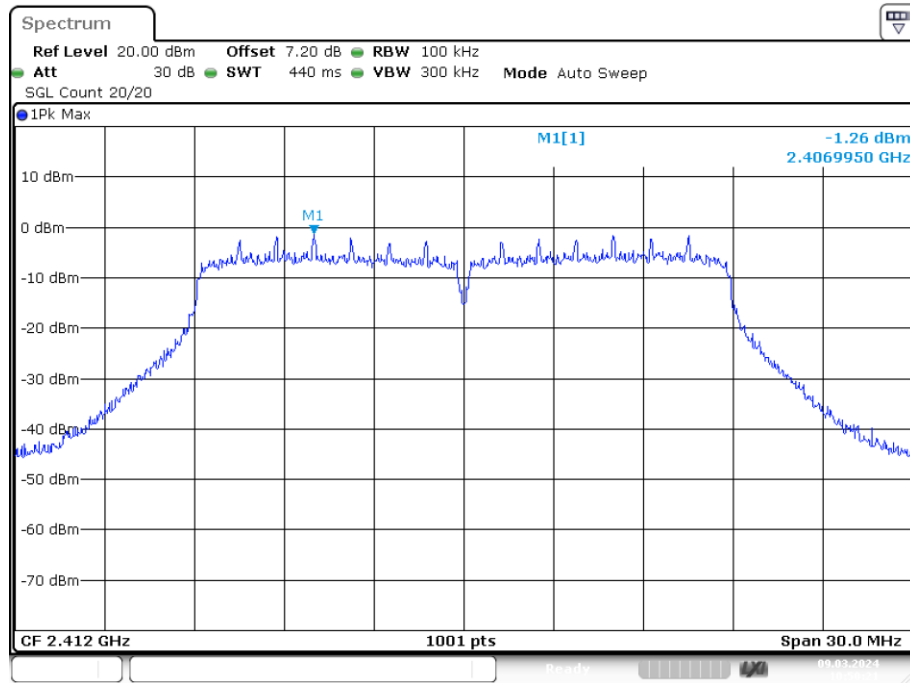
Date: 9.MAR.2024 10:42:06

PSD NVNT g 2462MHz Ant B



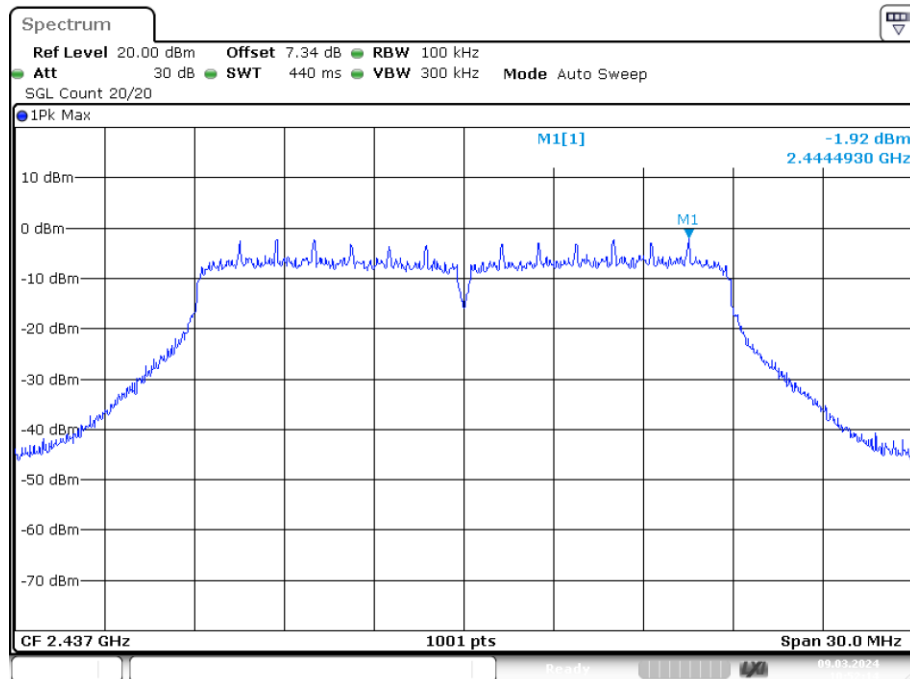
Date: 9.MAR.2024 10:47:39

PSD NVNT n20 2412MHz Ant B



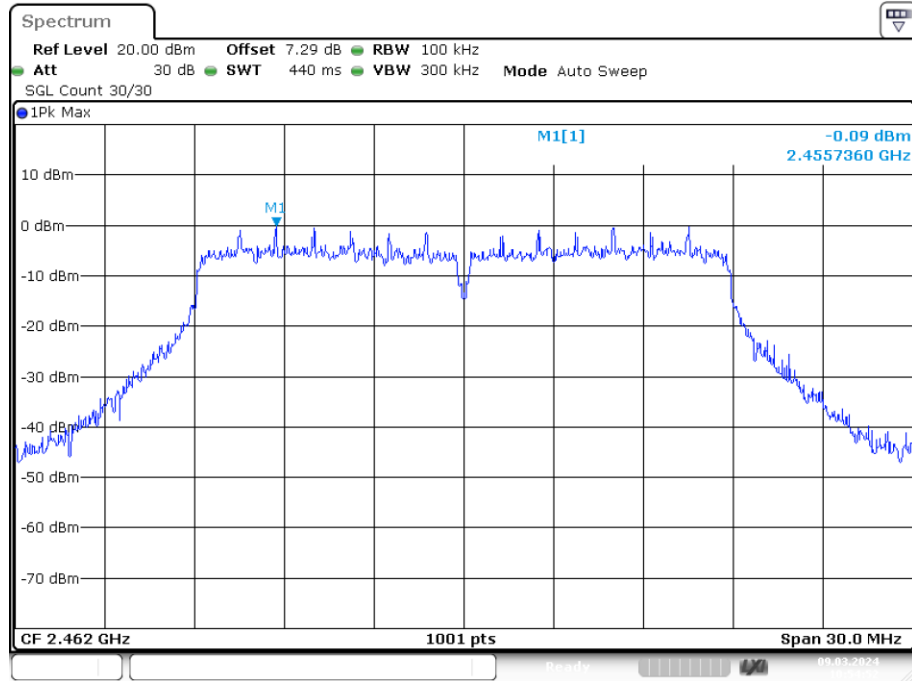
Date: 9.MAR.2024 10:50:21

PSD NVNT n20 2437MHz Ant B



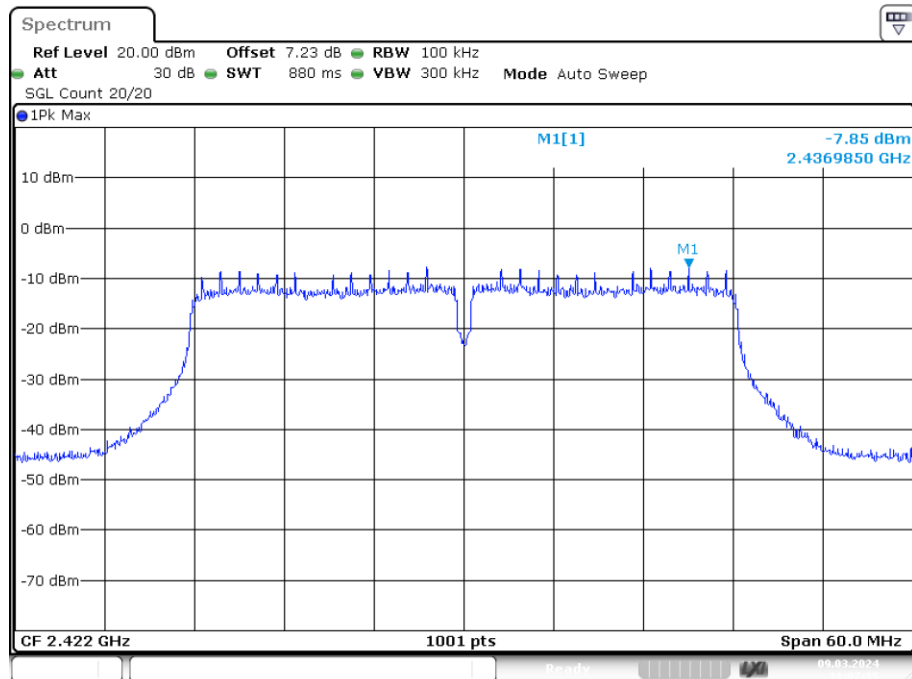
Date: 9.MAR.2024 10:52:13

PSD NVNT n20 2462MHz Ant B



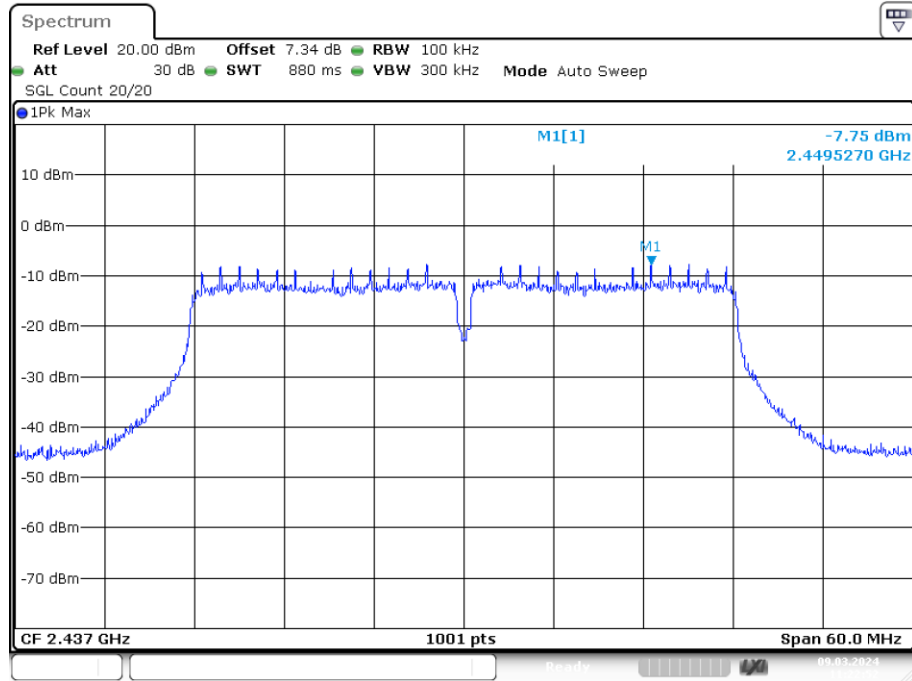
Date: 9.MAR.2024 10:54:51

PSD NVNT n40 2422MHz Ant B



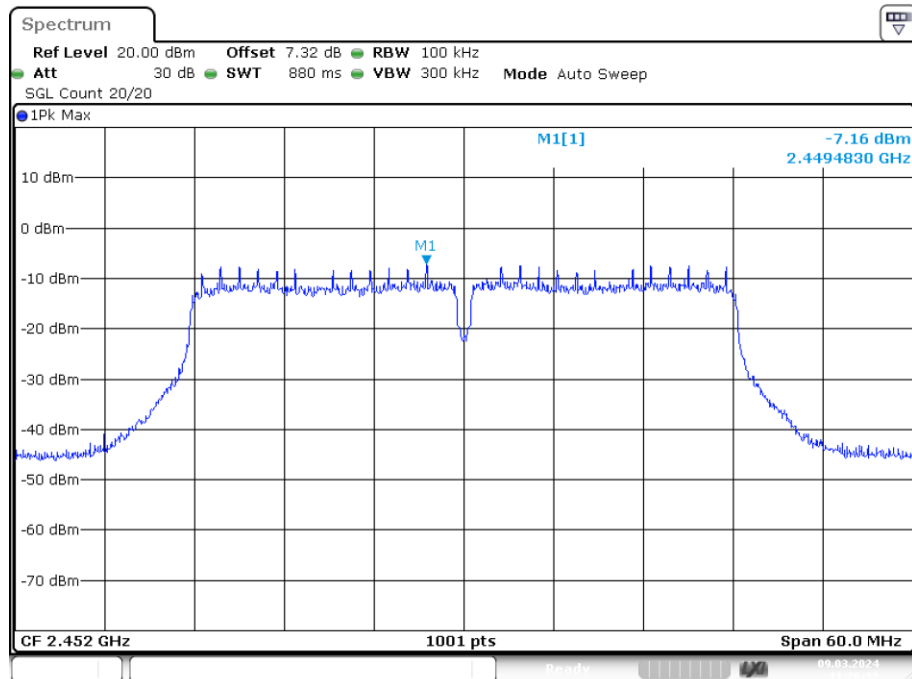
Date: 9.MAR.2024 11:07:35

PSD NVNT n40 2437MHz Ant B



Date: 9.MAR.2024 11:22:52

PSD NVNT n40 2452MHz Ant B



Date: 9.MAR.2024 11:26:32

7. BANDWIDTH

7.1. Test limits

Please refer FCC PART 15: 15.247

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

7.2. Test Procedure

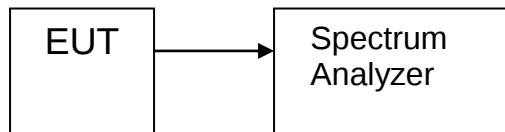
Details see the KDB558074 D01 Meas Guidance v05r02

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 =1-5%BW, VBW $\geq$ 3*RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth.

c) The test receiver set RBW = 100kHz, VBW $\geq$ 3*RBW =300kHz, Sweep time set auto, detail see the test plot for 6dB Bandwidth.

7.3. Test Setup



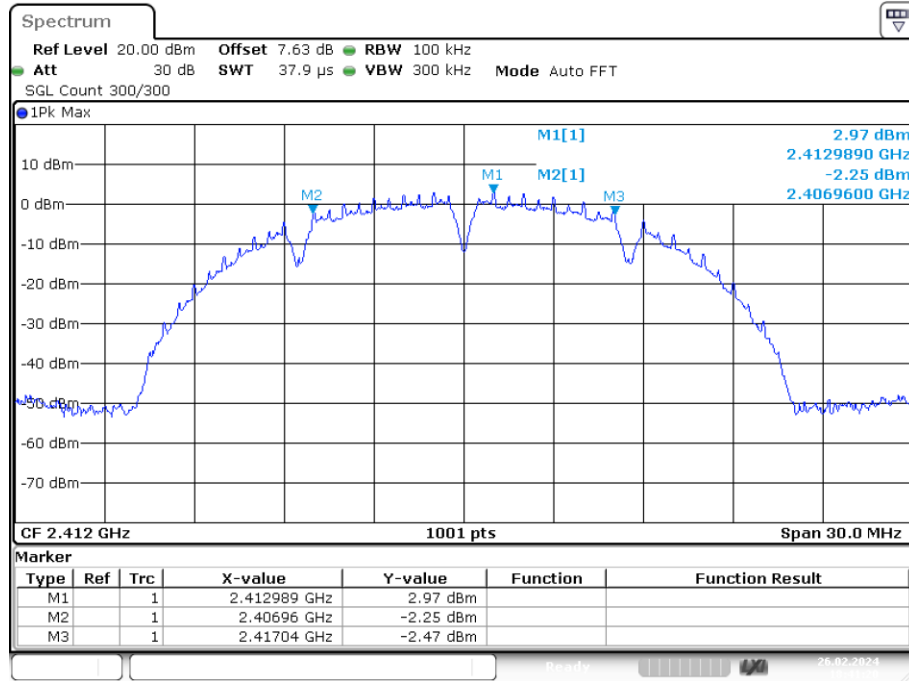
7.4. Test Results

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant A	10.08	0.5	Pass
NVNT	b	2437	Ant A	10.05	0.5	Pass
NVNT	b	2462	Ant A	10.05	0.5	Pass
NVNT	g	2412	Ant A	16.56	0.5	Pass
NVNT	g	2437	Ant A	16.44	0.5	Pass
NVNT	g	2462	Ant A	16.32	0.5	Pass
NVNT	n20	2412	Ant A	17.58	0.5	Pass
NVNT	n20	2437	Ant A	17.64	0.5	Pass
NVNT	n20	2462	Ant A	17.28	0.5	Pass
NVNT	n40	2422	Ant A	35.1	0.5	Pass
NVNT	n40	2437	Ant A	36.06	0.5	Pass
NVNT	n40	2452	Ant A	35.46	0.5	Pass

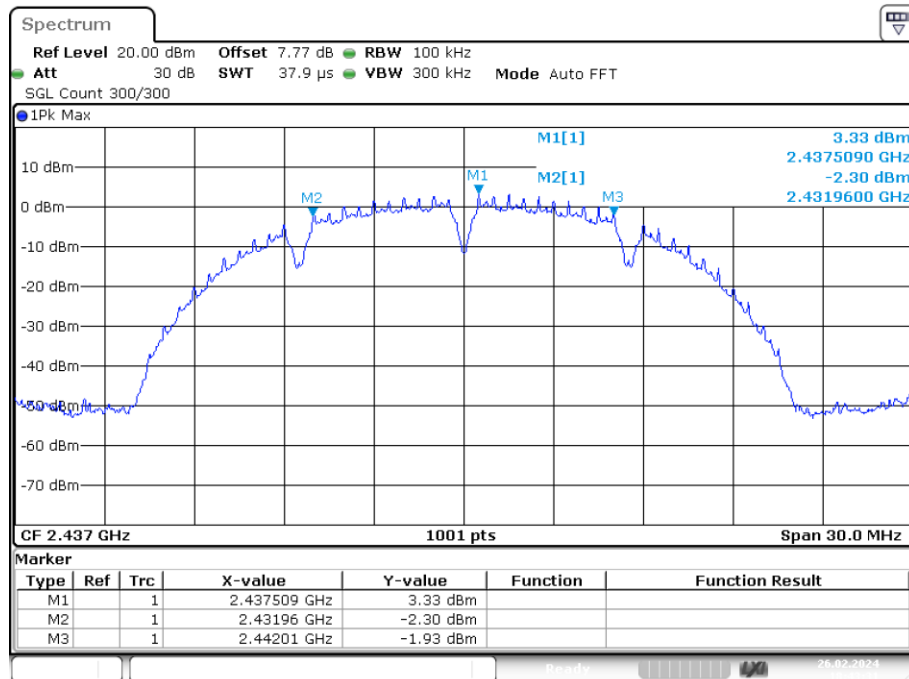
Note: 1.All antennas have been tested, only the worst data of each pattern is reflected.

-6dB Bandwidth NVNT b 2412MHz Ant A



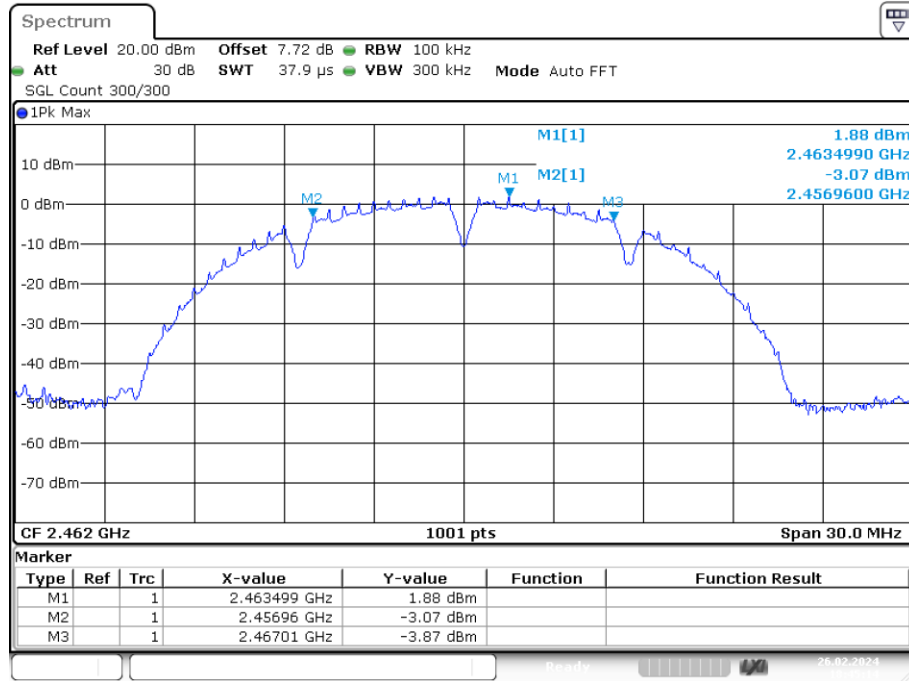
Date: 26.FEB.2024 18:41:20

-6dB Bandwidth NVNT b 2437MHz Ant A



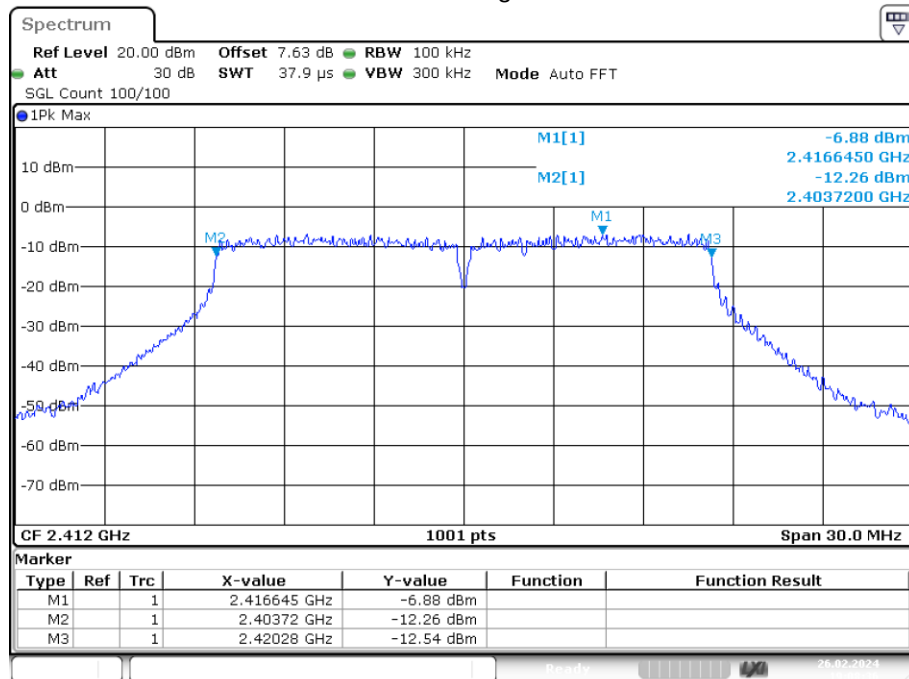
Date: 26.FEB.2024 18:43:30

-6dB Bandwidth NVNT b 2462MHz Ant A



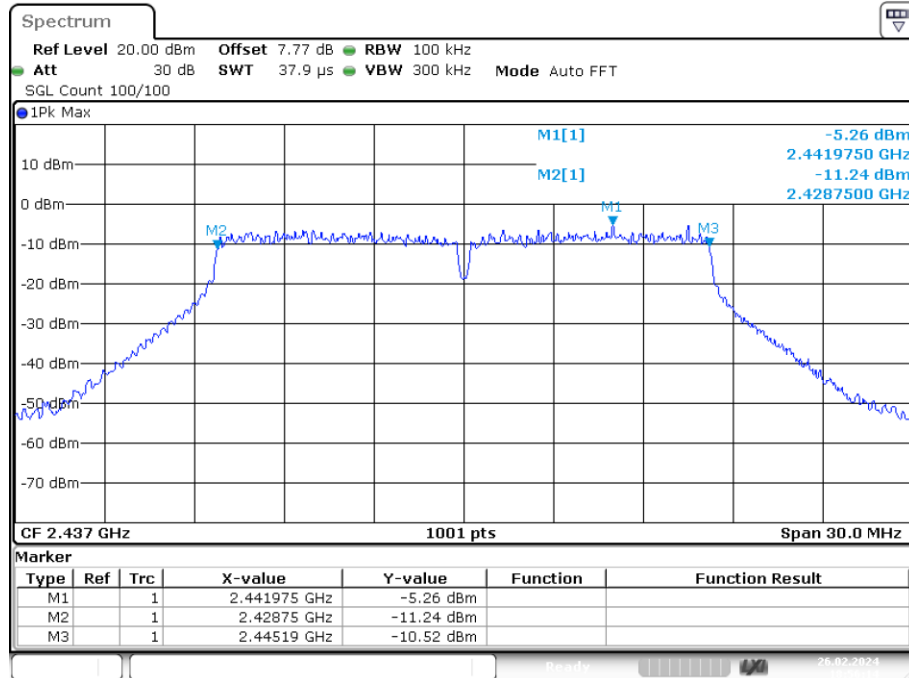
Date: 26.FEB.2024 18:45:14

-6dB Bandwidth NVNT g 2412MHz Ant A



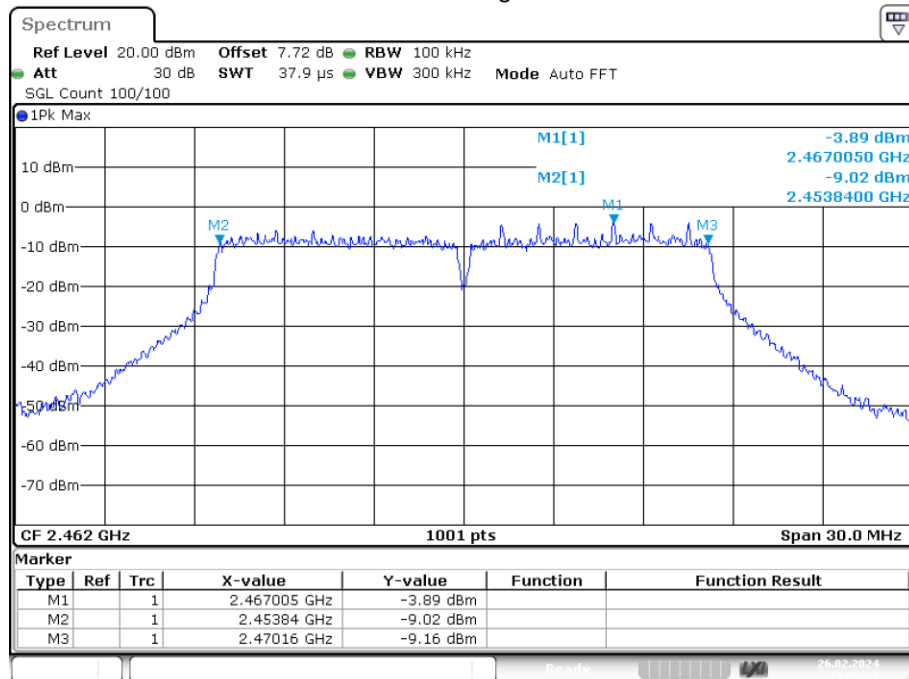
Date: 26.FEB.2024 19:08:36

-6dB Bandwidth NVNT g 2437MHz Ant A



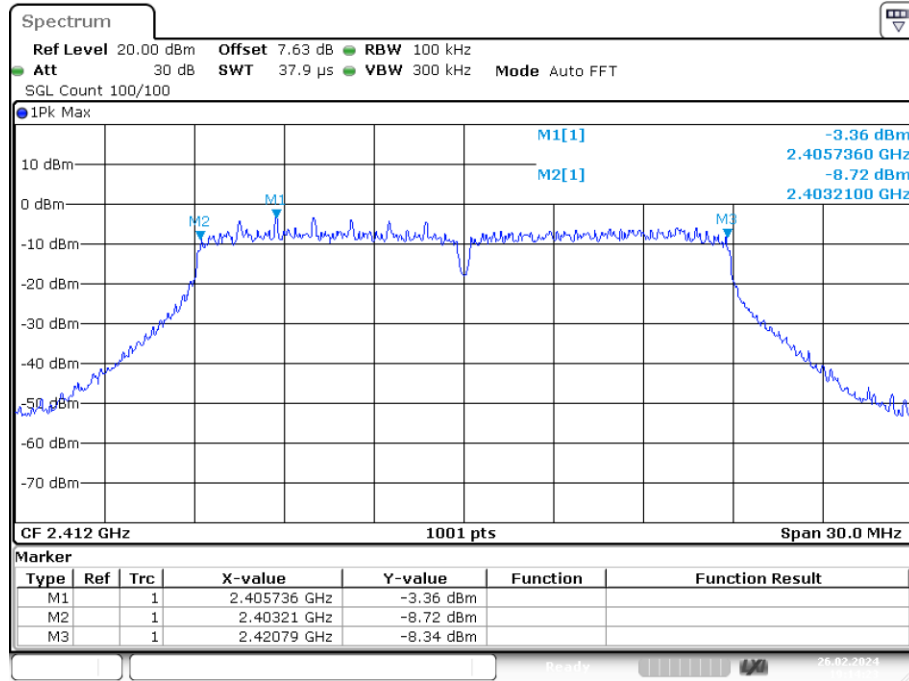
Date: 26.FEB.2024 18:56:14

-6dB Bandwidth NVNT g 2462MHz Ant A



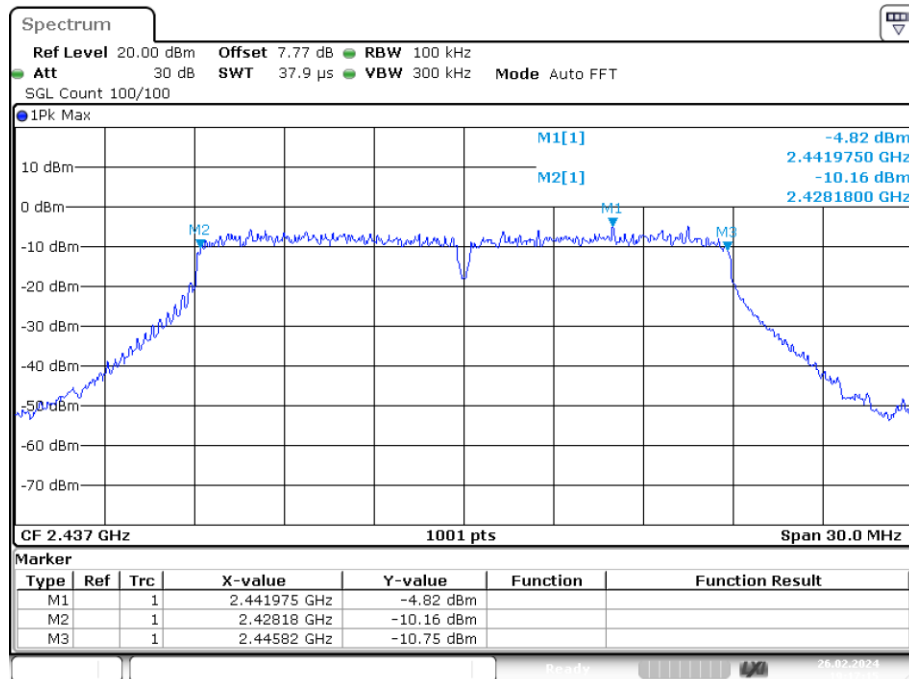
Date: 26.FEB.2024 19:05:33

-6dB Bandwidth NVNT n20 2412MHz Ant A



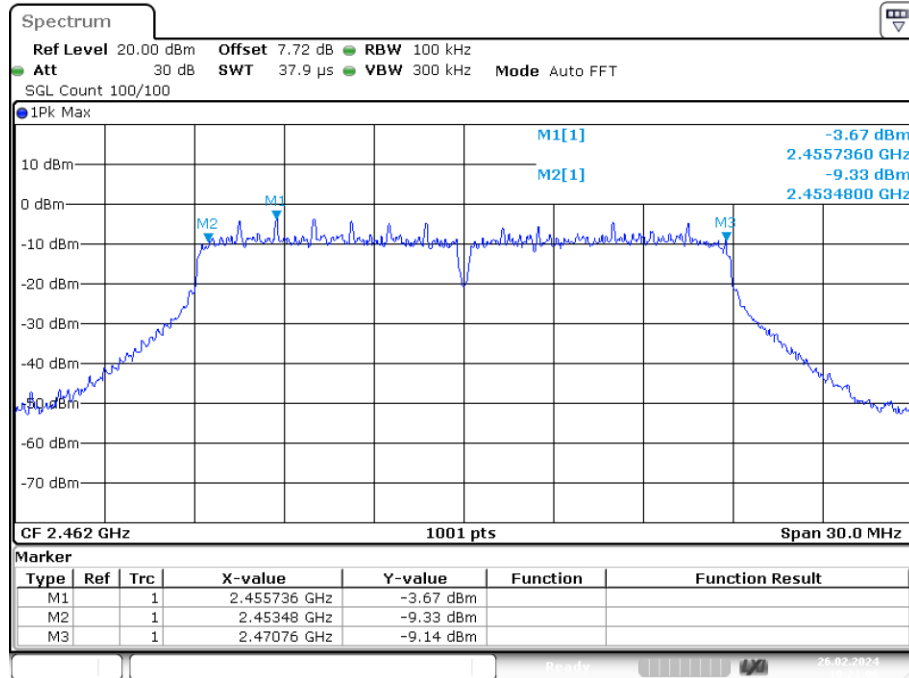
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-6dB Bandwidth NVNT n20 2437MHz Ant A



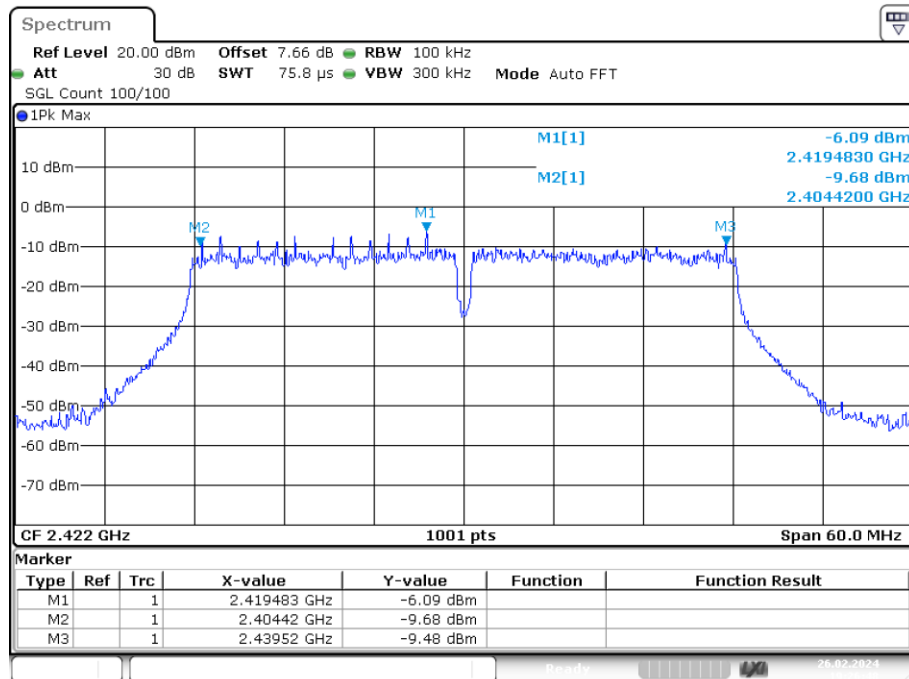
Date: 26.FEB.2024 19:17:14

-6dB Bandwidth NVNT n20 2462MHz Ant A



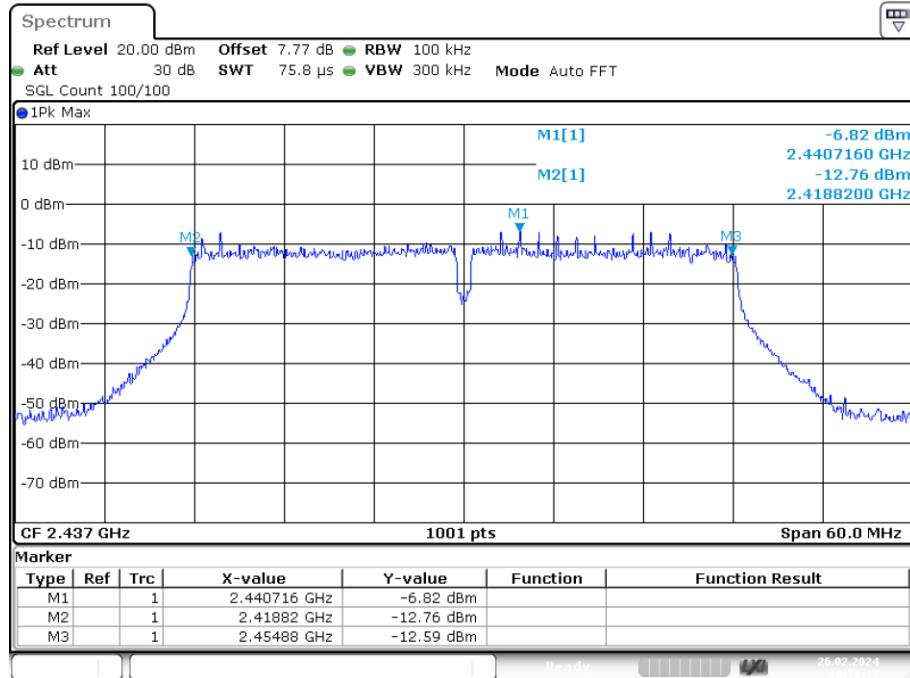
Date: 26.FEB.2024 19:21:05

-6dB Bandwidth NVNT n40 2422MHz Ant A



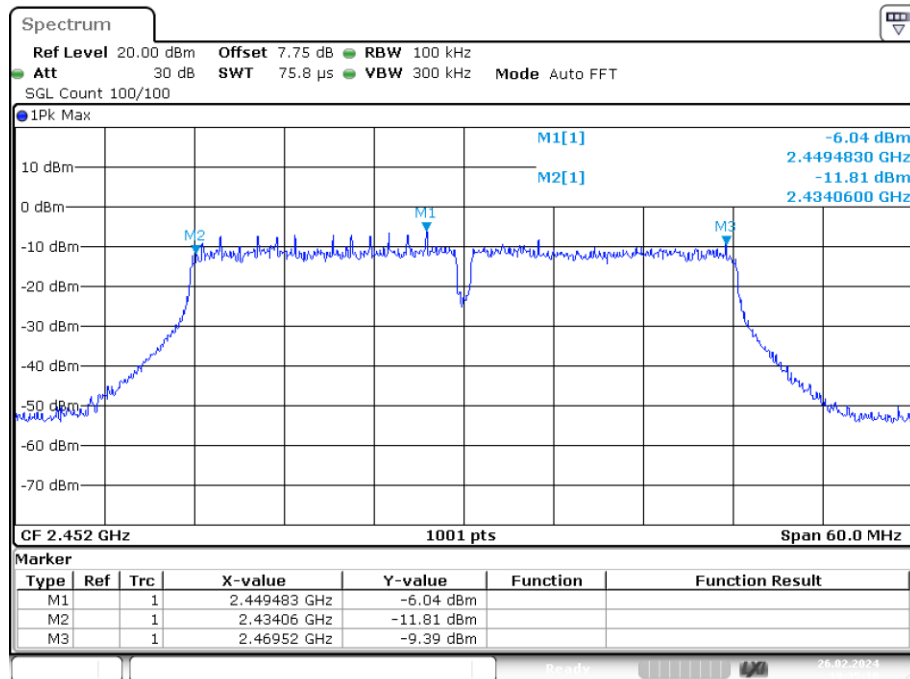
Date: 26.FEB.2024 19:26:48

-6dB Bandwidth NVNT n40 2437MHz Ant A



Date: 26.FEB.2024 19:30:33

-6dB Bandwidth NVNT n40 2452MHz Ant A



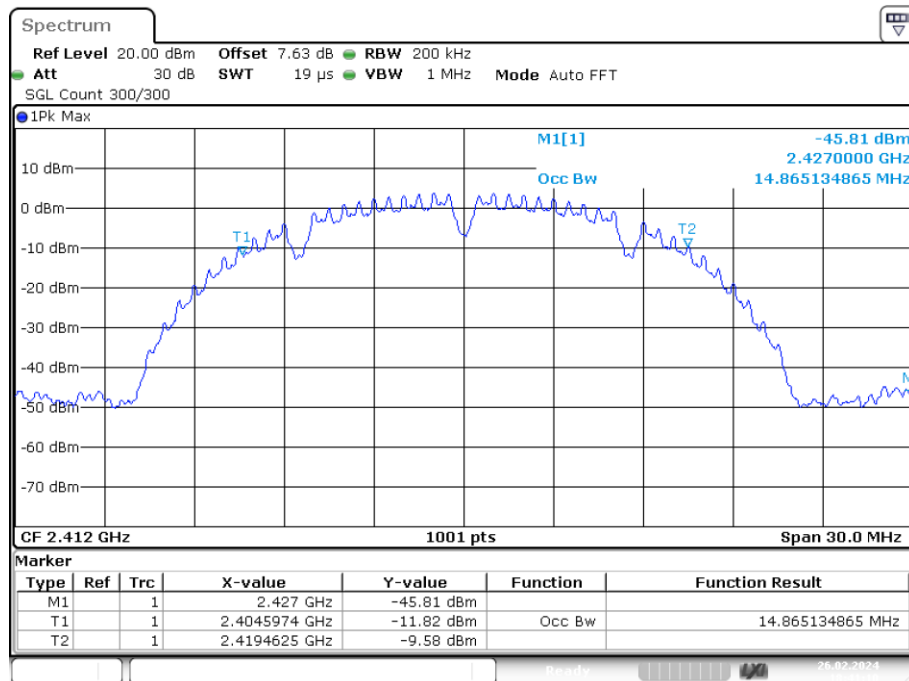
Date: 26.FEB.2024 19:35:10

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant A	14.865
NVNT	b	2437	Ant A	14.865
NVNT	b	2462	Ant A	14.895
NVNT	g	2412	Ant A	16.663
NVNT	g	2437	Ant A	16.603
NVNT	g	2462	Ant A	16.573
NVNT	n20	2412	Ant A	17.592
NVNT	n20	2437	Ant A	17.712
NVNT	n20	2462	Ant A	17.622
NVNT	n40	2422	Ant A	36.144
NVNT	n40	2437	Ant A	36.623
NVNT	n40	2452	Ant A	36.324

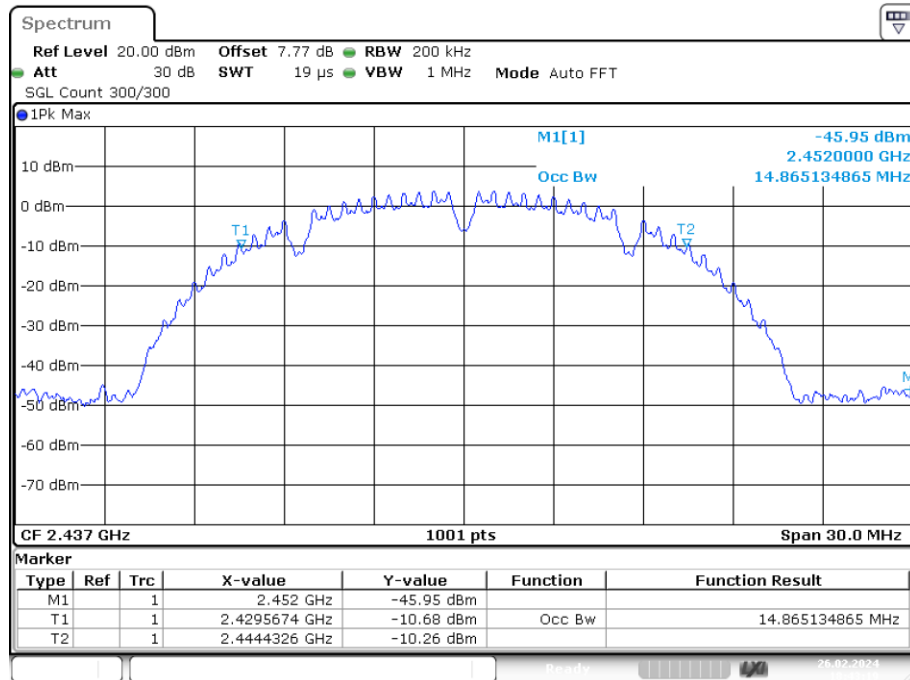
Note: 1.All antennas have been tested, only the worst data of each pattern is reflected.

OBW NVNT b 2412MHz Ant A



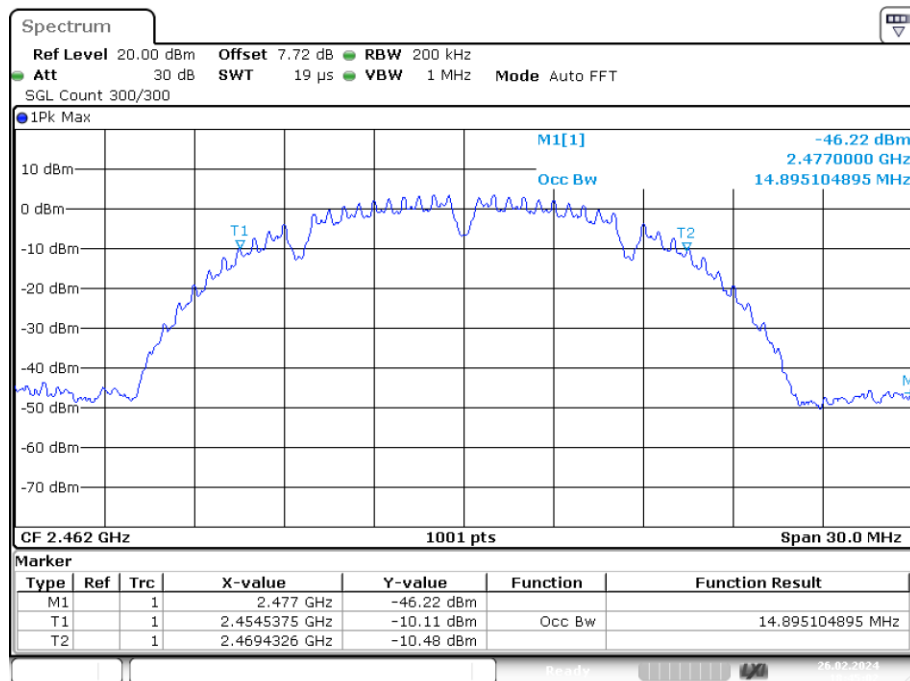
Date: 26.FEB.2024 18:41:09

OBW NVNT b 2437MHz Ant A



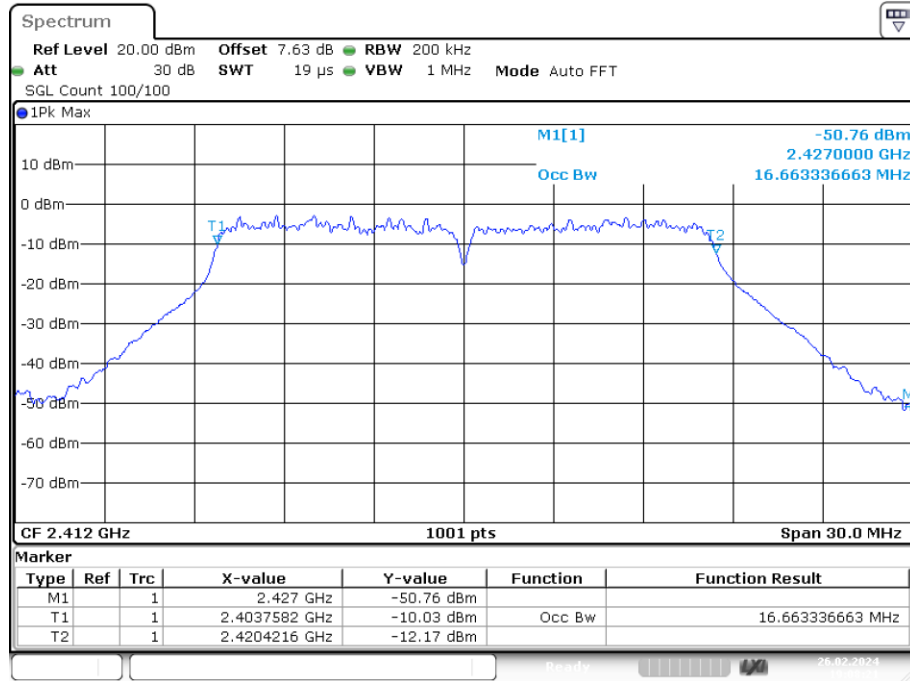
Date: 26.FEB.2024 18:43:19

OBW NVNT b 2462MHz Ant A



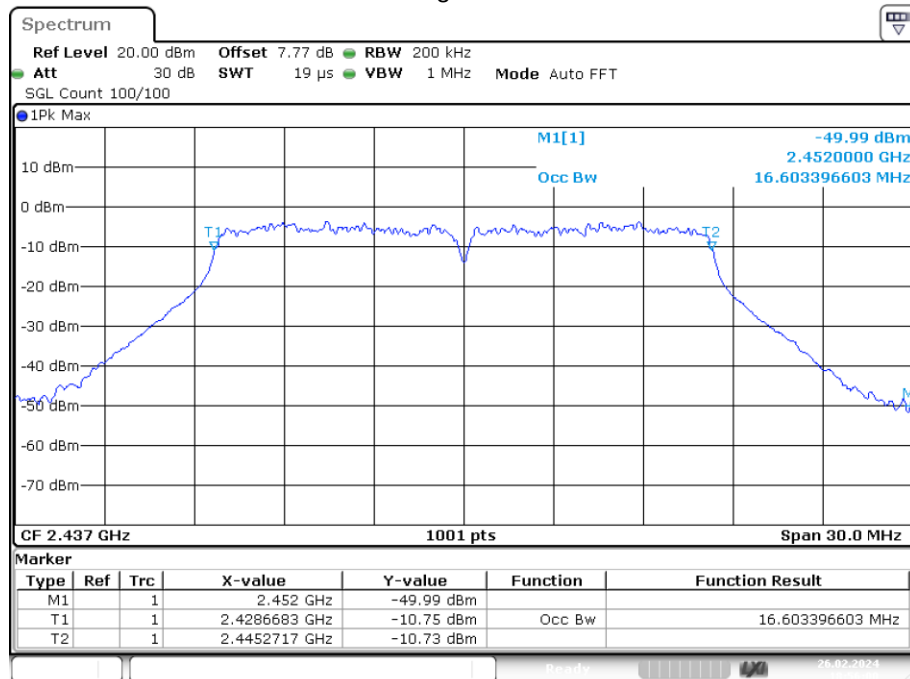
Date: 26.FEB.2024 18:45:02

OBW NVNT g 2412MHz Ant A



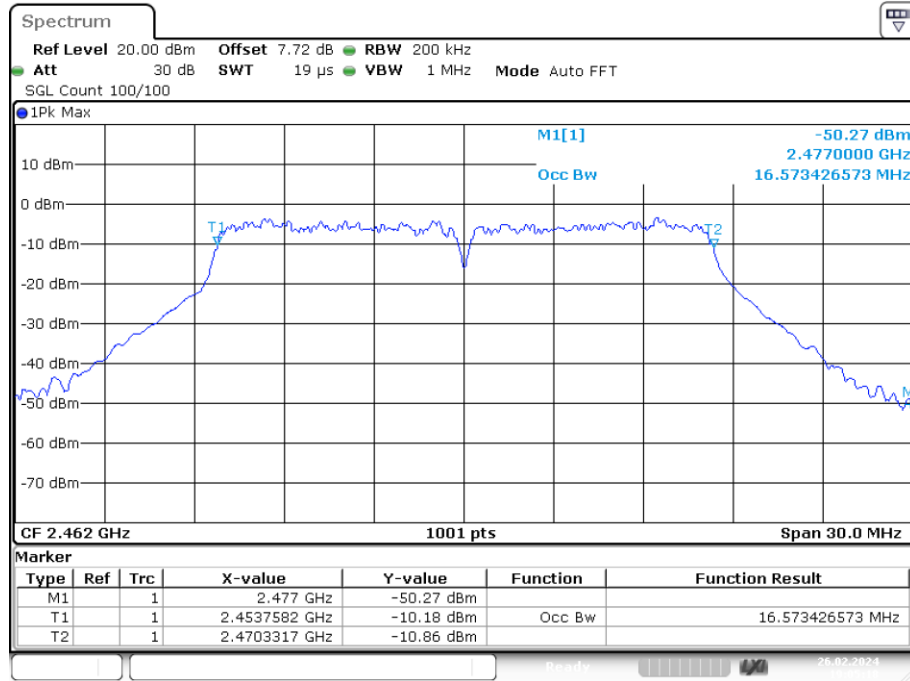
Date: 26.FEB.2024 19:08:20

OBW NVNT g 2437MHz Ant A



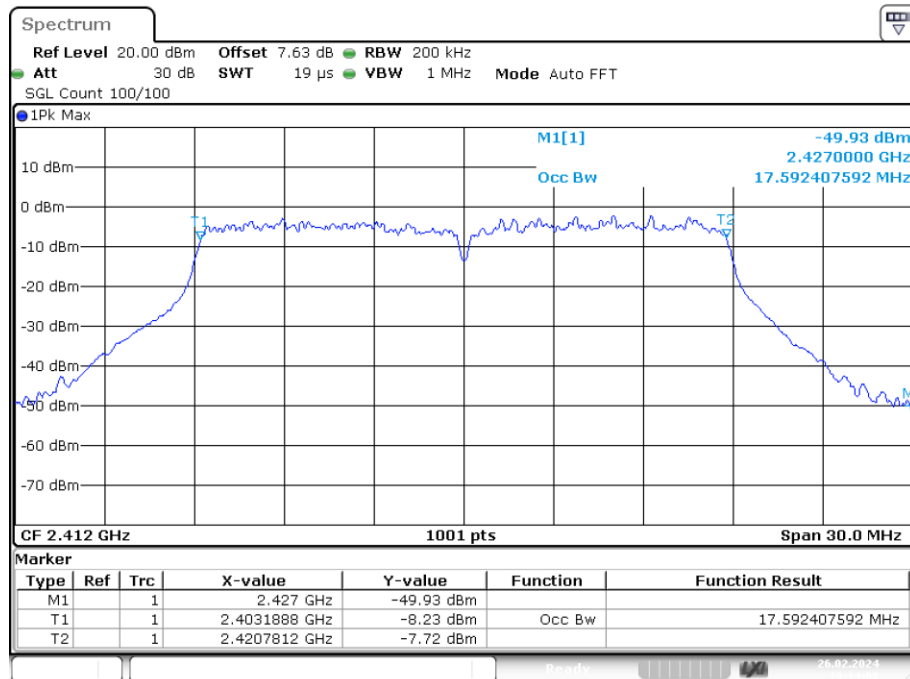
Date: 26.FEB.2024 18:55:59

OBW NVNT g 2462MHz Ant A



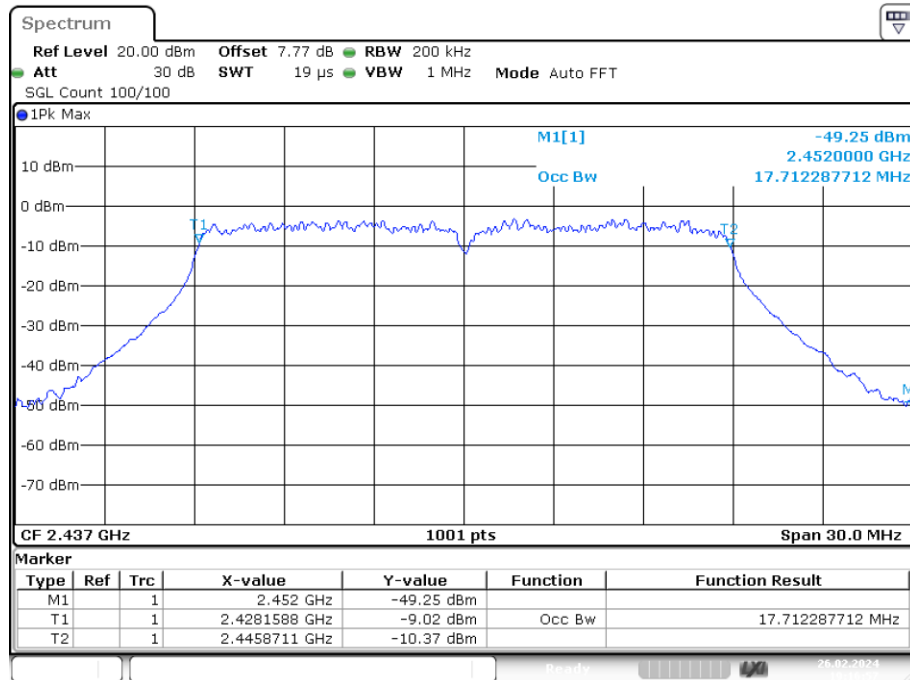
Date: 26.FEB.2024 19:05:18

OBW NVNT n20 2412MHz Ant A



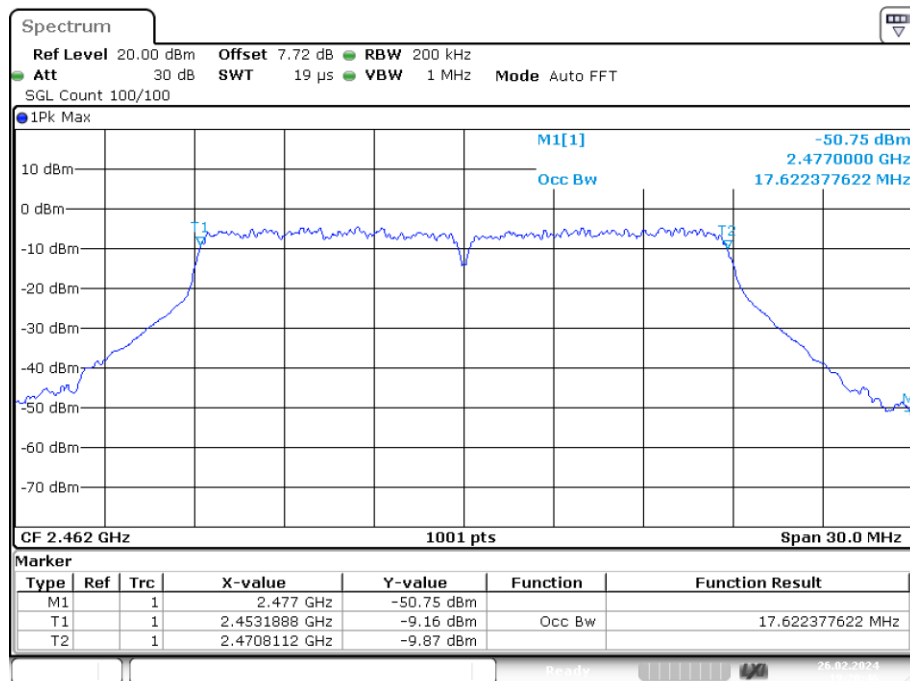
Date: 26.FEB.2024 19:14:08

OBW NVNT n20 2437MHz Ant A



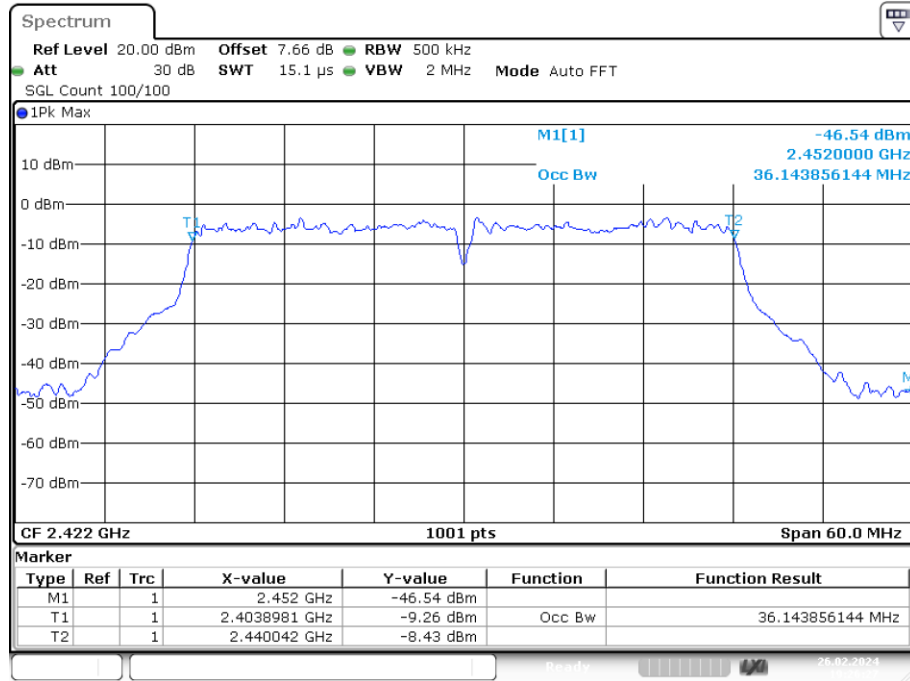
Date: 26.FEB.2024 19:16:57

OBW NVNT n20 2462MHz Ant A



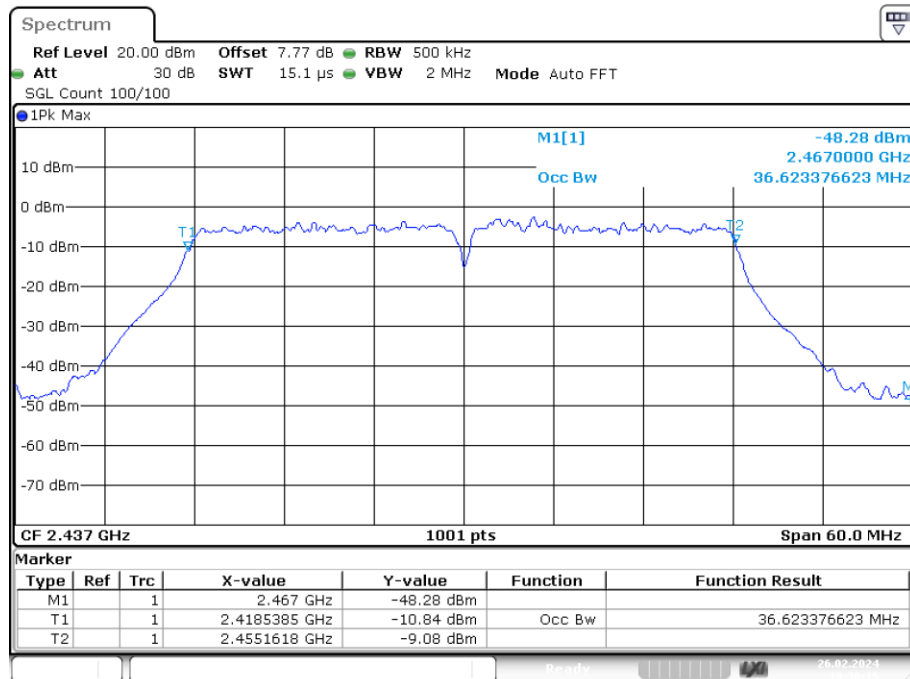
Date: 26.FEB.2024 19:20:46

OBW NVNT n40 2422MHz Ant A



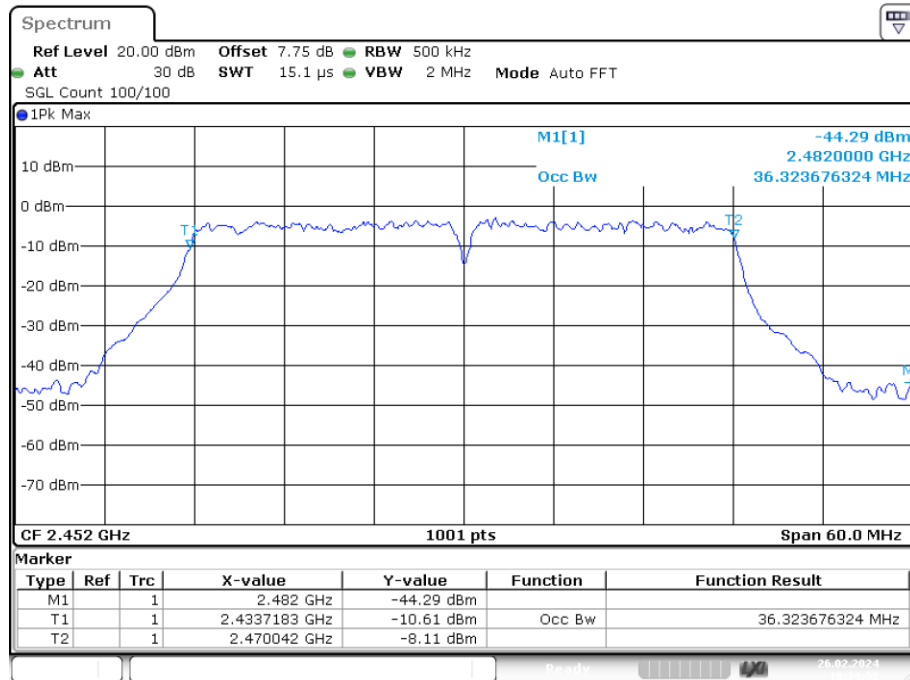
Date: 26.FEB.2024 19:26:27

OBW NVNT n40 2437MHz Ant A



Date: 26.FEB.2024 19:30:15

OBW NVNT n40 2452MHz Ant A



Date: 26.FEB.2024 19:34:52

8. BAND EDGE CHECK

8.1. Test limits

Please refer 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.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 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

8.2.2 Check the spurious emissions out of band.

8.2.3 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.

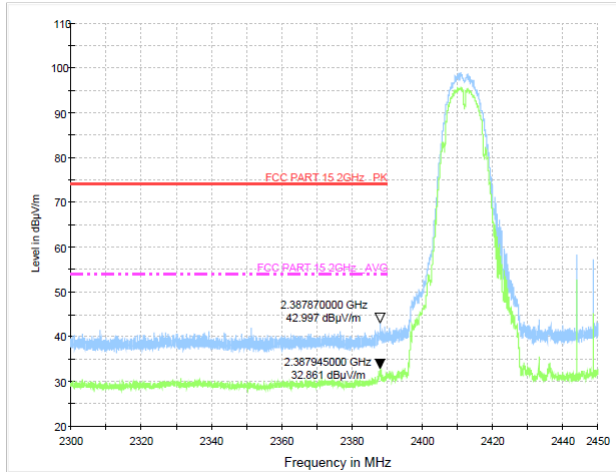
8.4. Test Results

PASS.

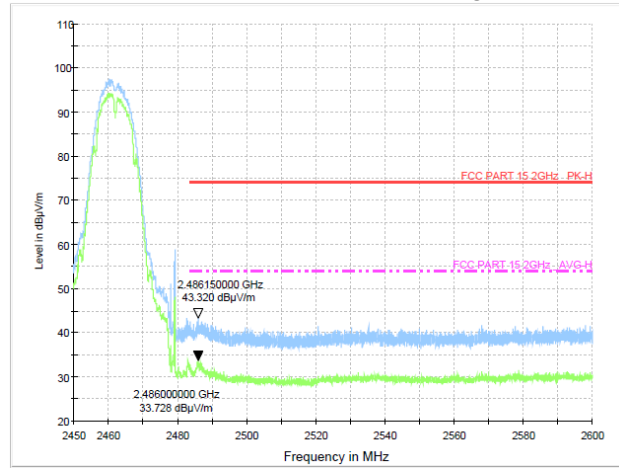
Detailed information please see the following page.

Radiation testing

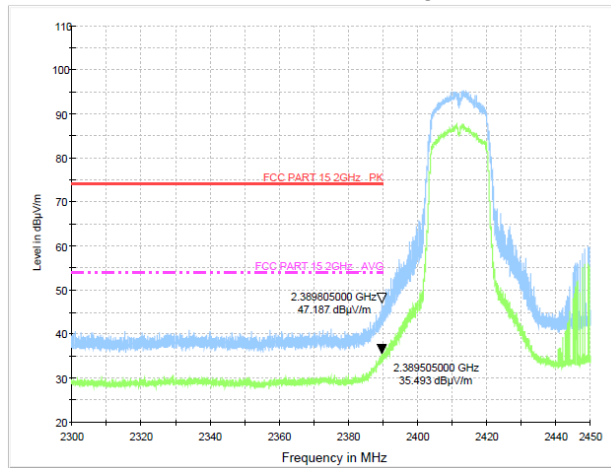
Test Mode: IEEE 802.11b-Low



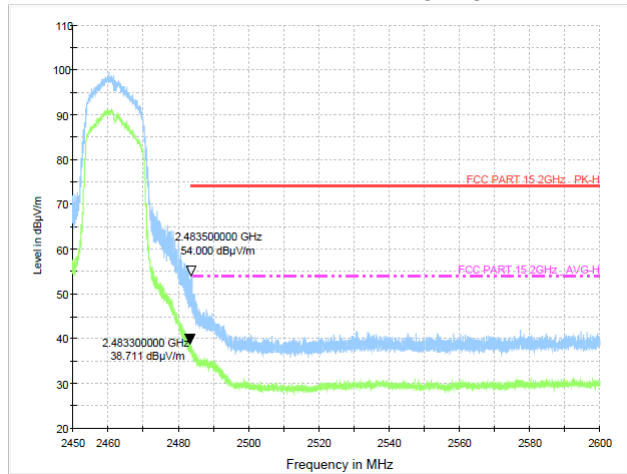
Test Mode: IEEE 802.11b-High



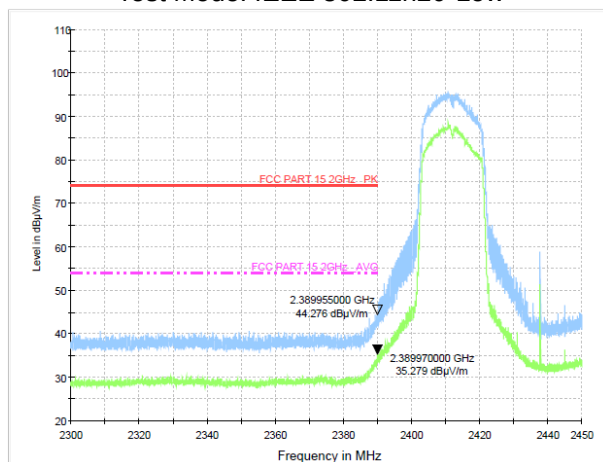
Test Mode: IEEE 802.11g-Low



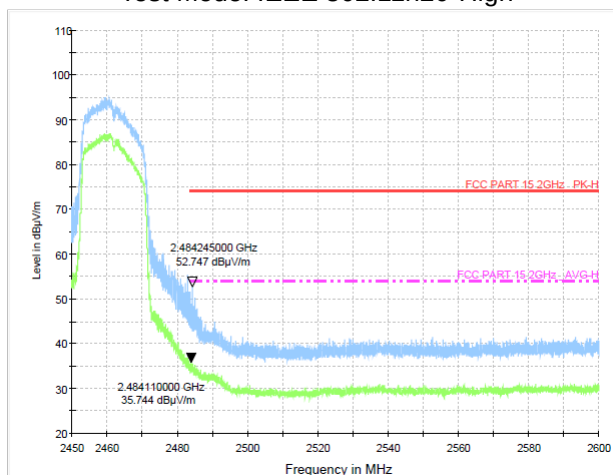
Test Mode: IEEE 802.11g-High



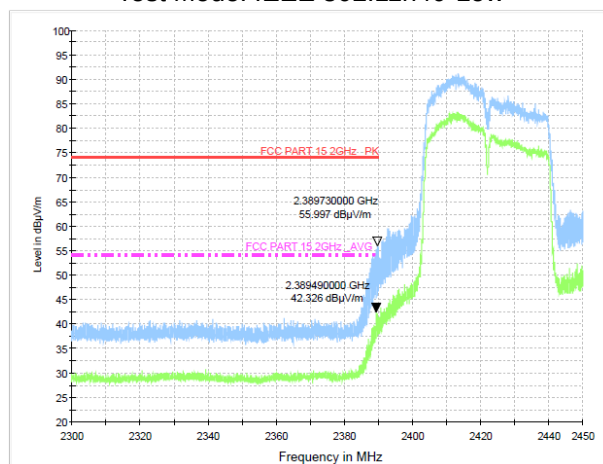
Test Mode: IEEE 802.11n20-Low



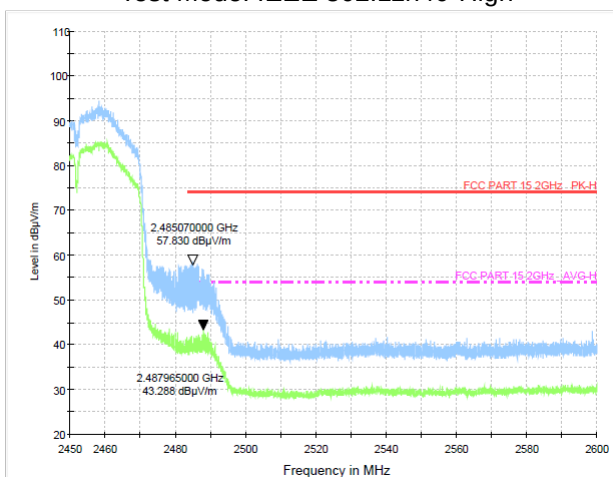
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

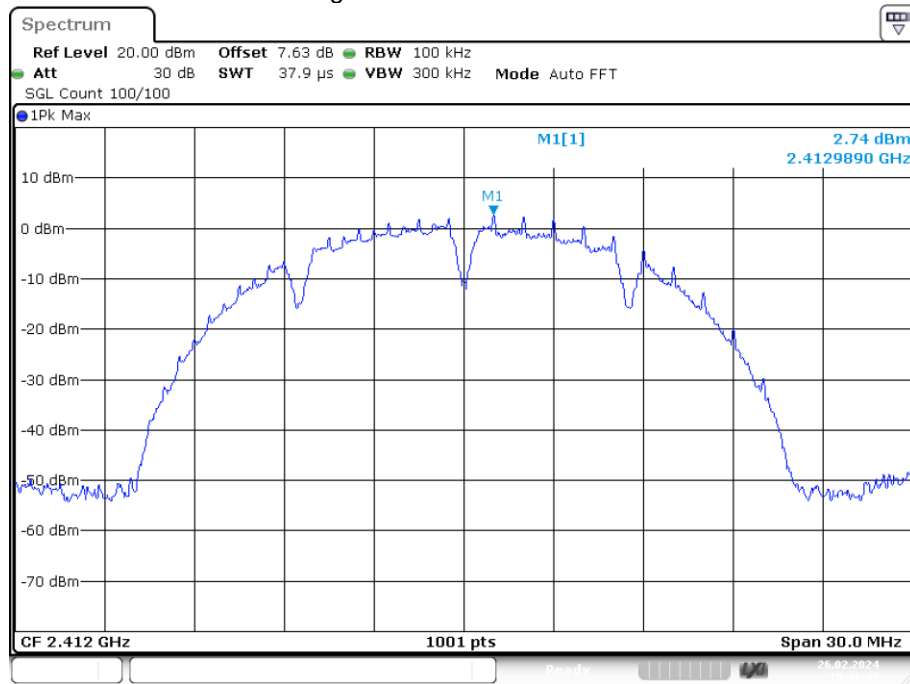


Test Mode: IEEE 802.11n40-High



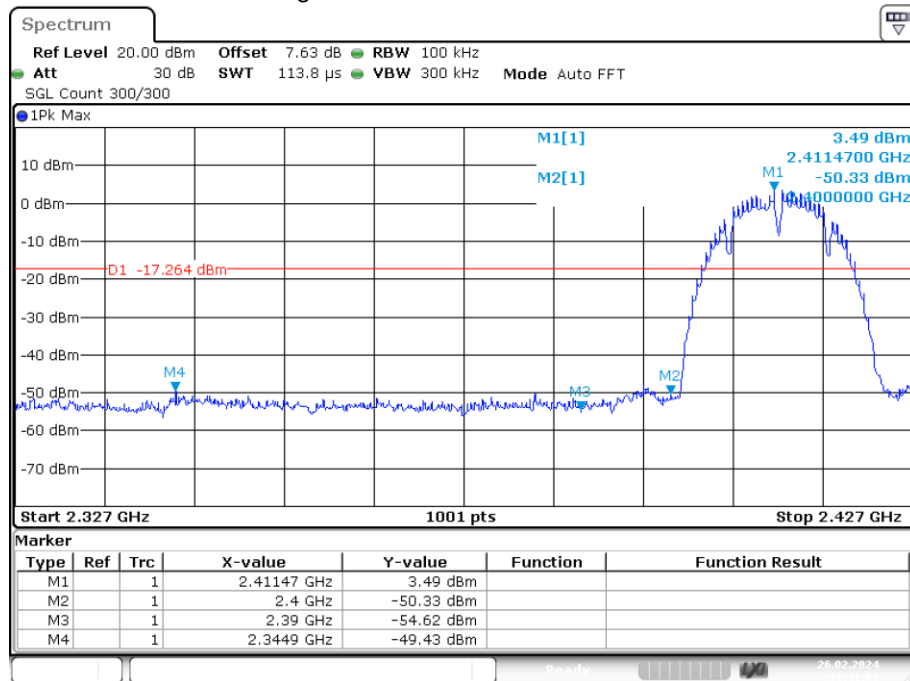
Conduction method testing

Band Edge NVNT b 2412MHz Ant A Ref



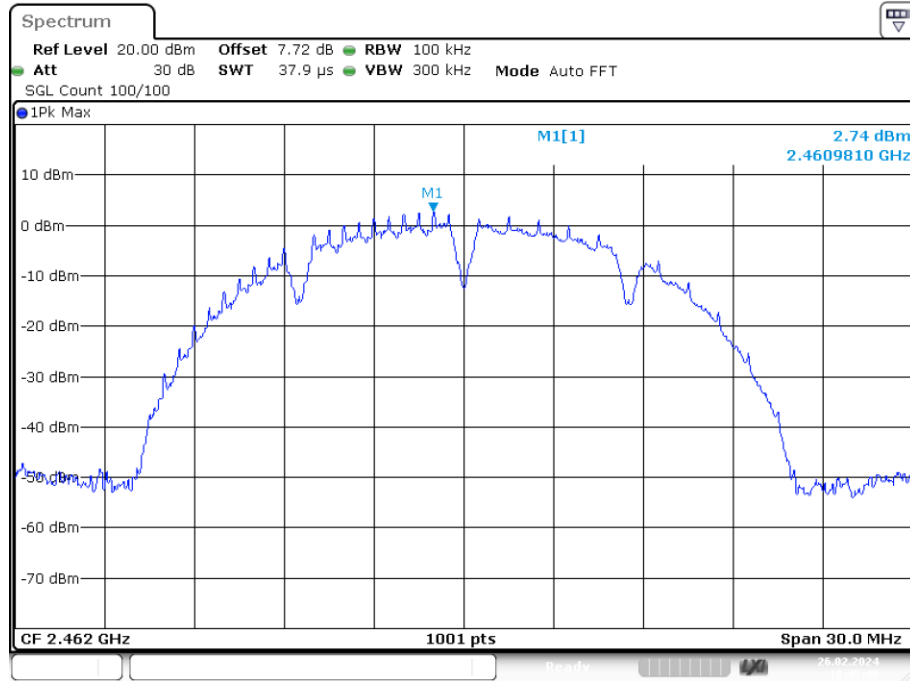
Date: 26.FEB.2024 18:41:43

Band Edge NVNT b 2412MHz Ant A Emission



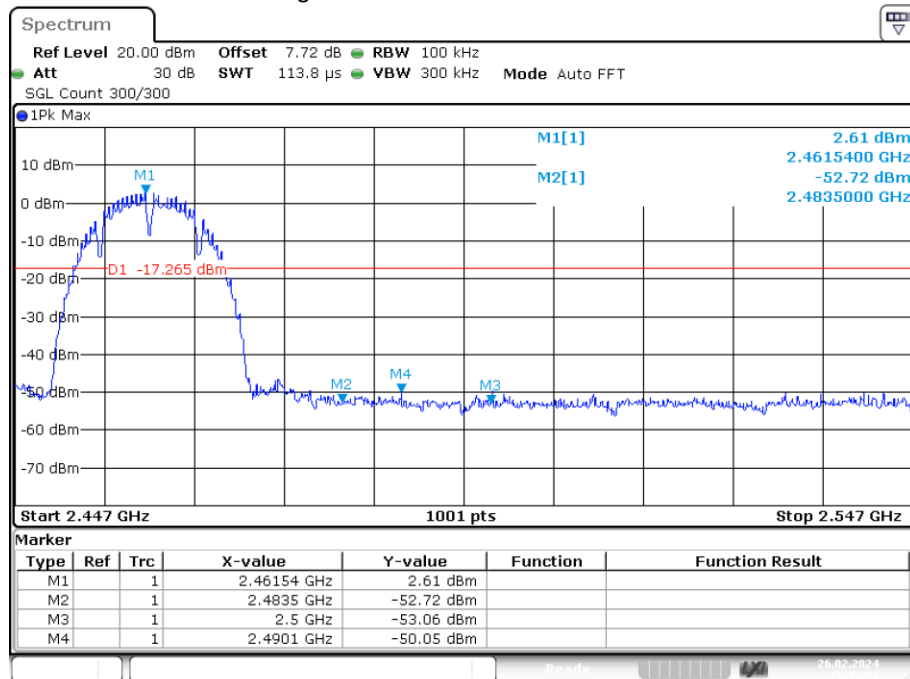
Date: 26.FEB.2024 18:41:54

Band Edge NVNT b 2462MHz Ant A Ref



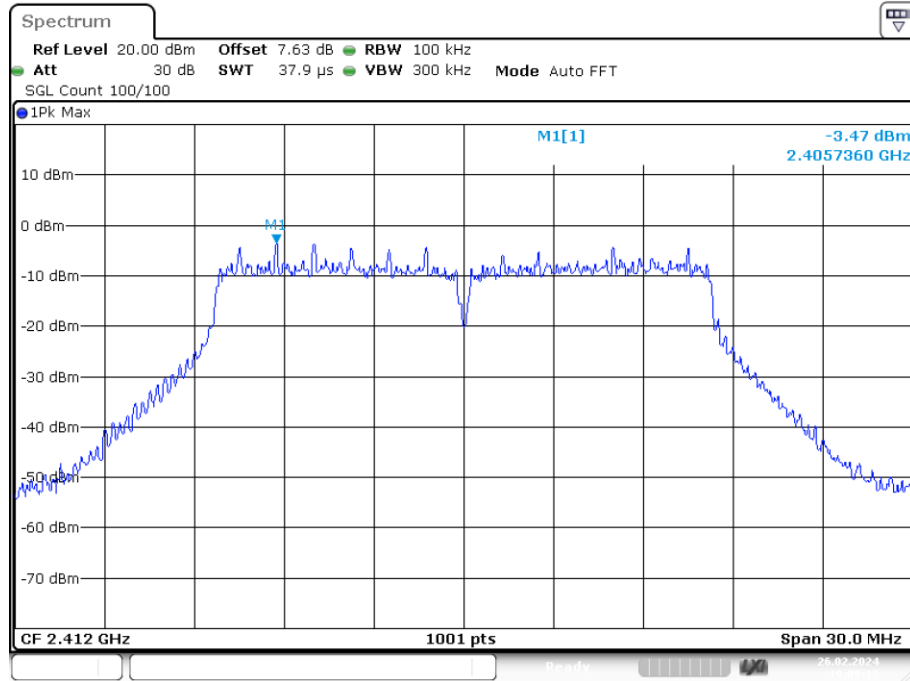
Date: 26.FEB.2024 18:45:40

Band Edge NVNT b 2462MHz Ant A Emission



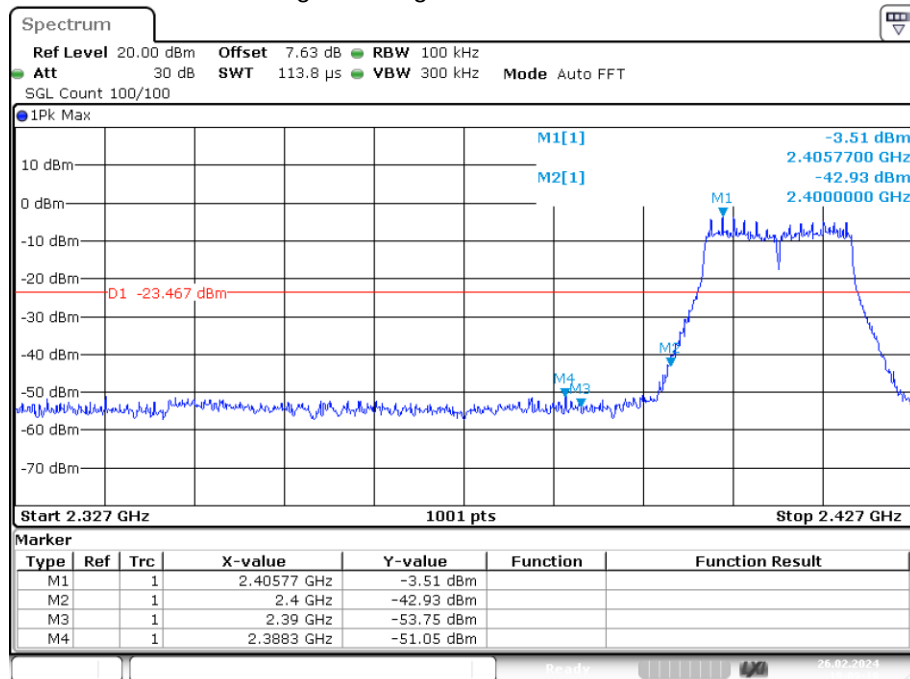
Date: 26.FEB.2024 18:45:52

Band Edge NVNT g 2412MHz Ant A Ref



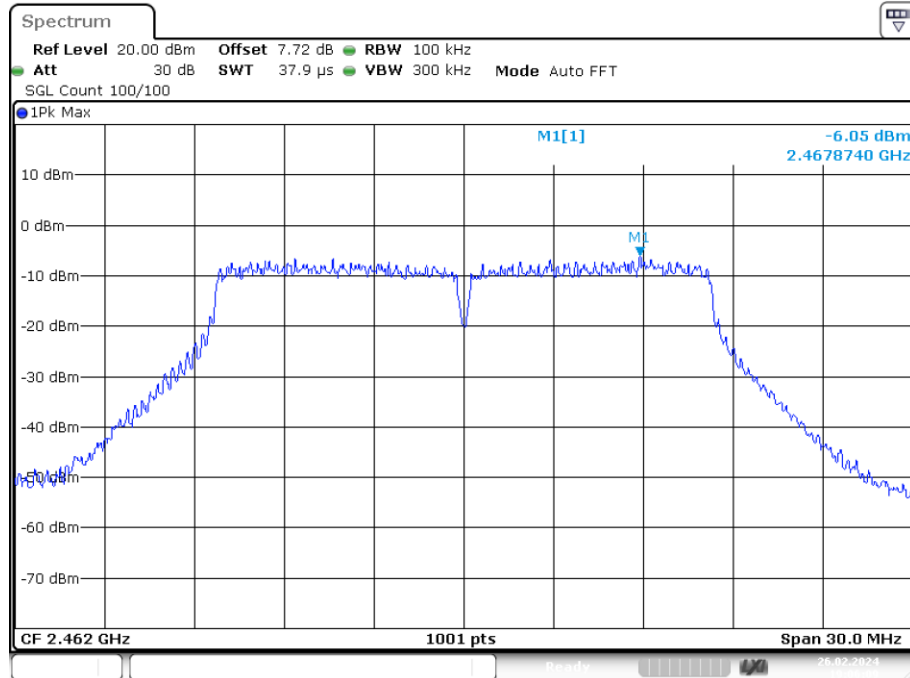
Date: 26.FEB.2024 19:09:13

Band Edge NVNT g 2412MHz Ant A Emission



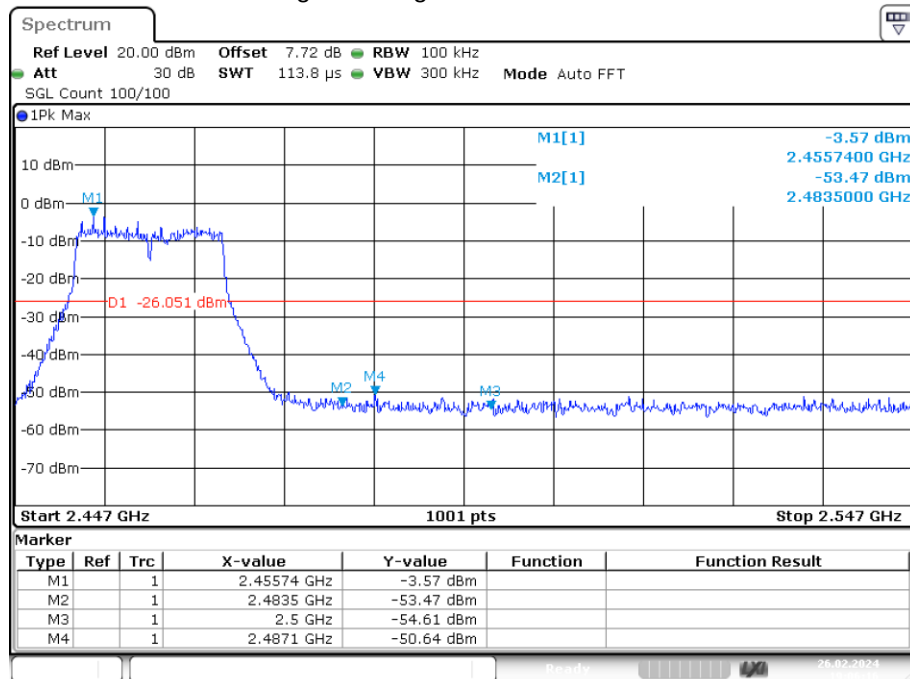
Date: 26.FEB.2024 19:09:19

Band Edge NVNT g 2462MHz Ant A Ref



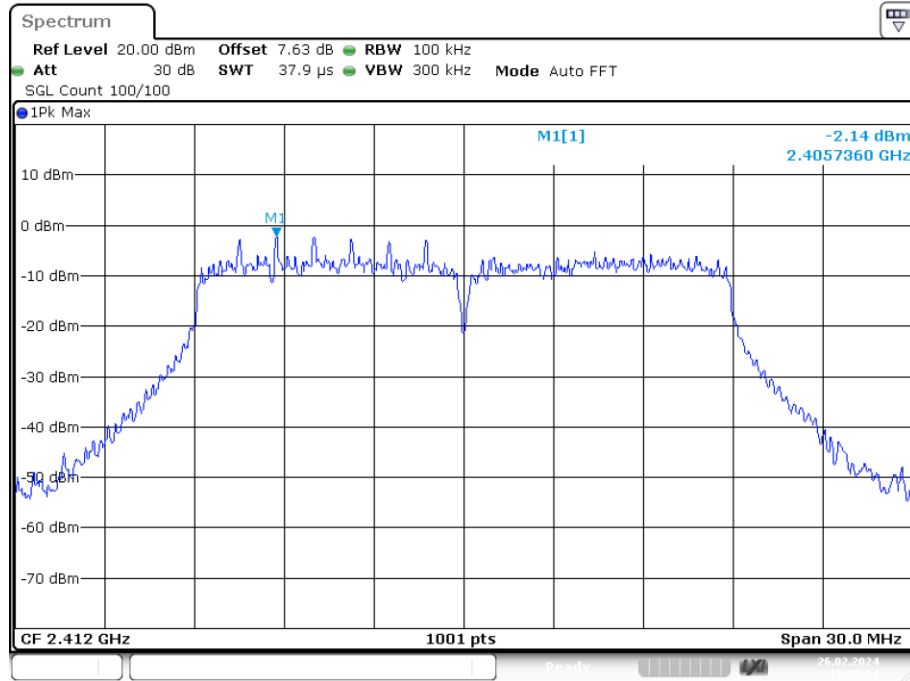
Date: 26.FEB.2024 19:06:10

Band Edge NVNT g 2462MHz Ant A Emission



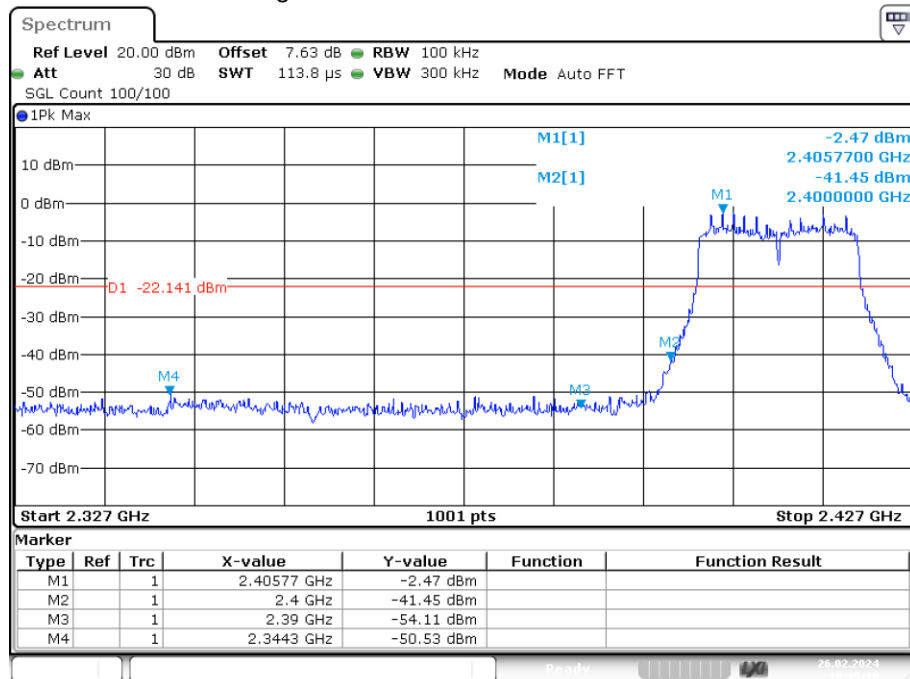
Date: 26.FEB.2024 19:06:15

Band Edge NVNT n20 2412MHz MIMO Ref



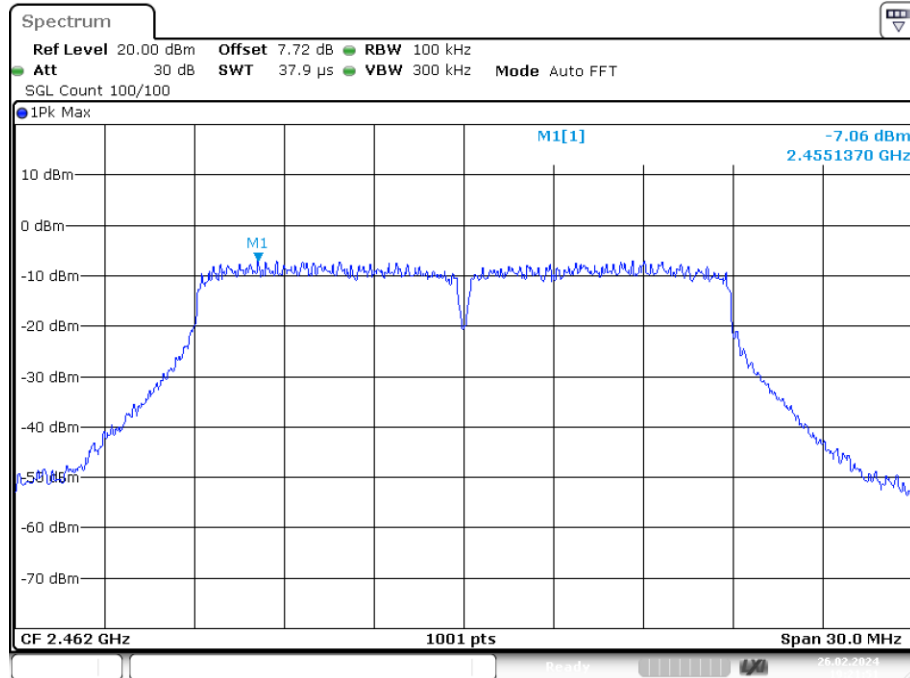
Date: 26.FEB.2024 19:15:04

Band Edge NVNT n20 2412MHz MIMO Emission



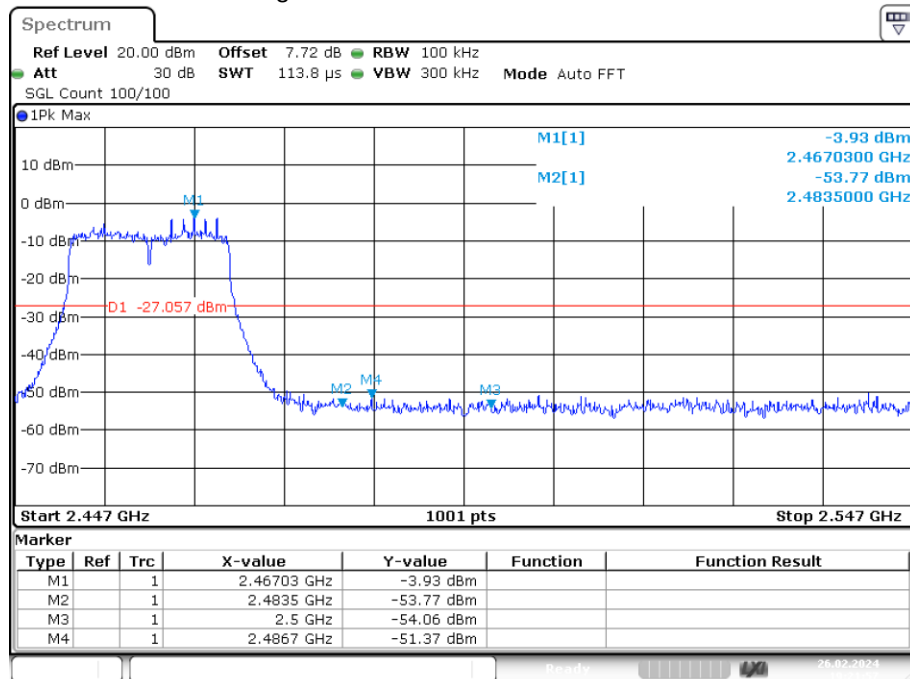
Date: 26.FEB.2024 19:15:10

Band Edge NVNT n20 2462MHz MIMO Ref



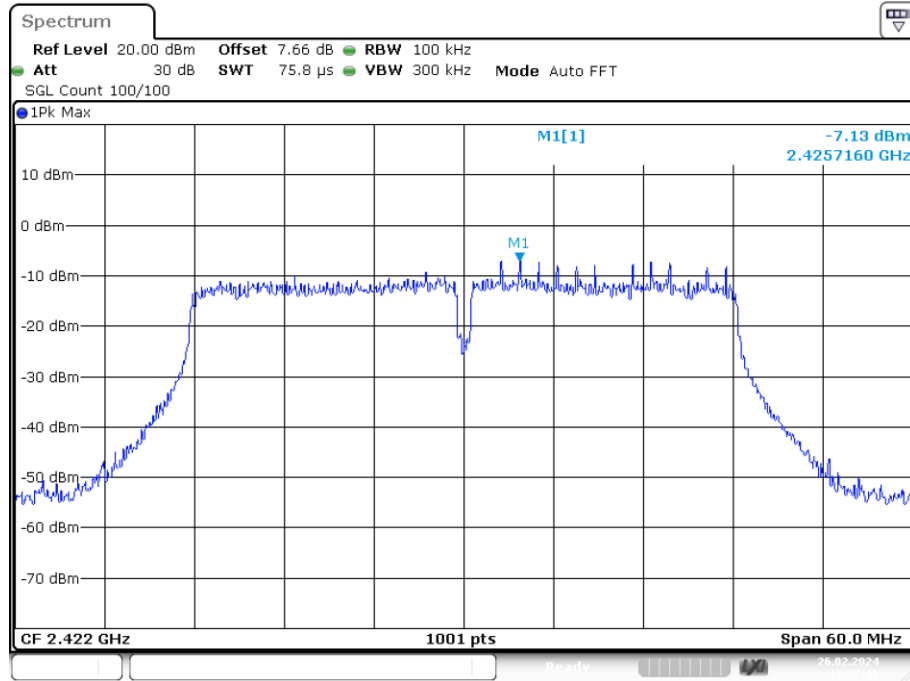
Date: 26.FEB.2024 19:21:50

Band Edge NVNT n20 2462MHz MIMO Emission



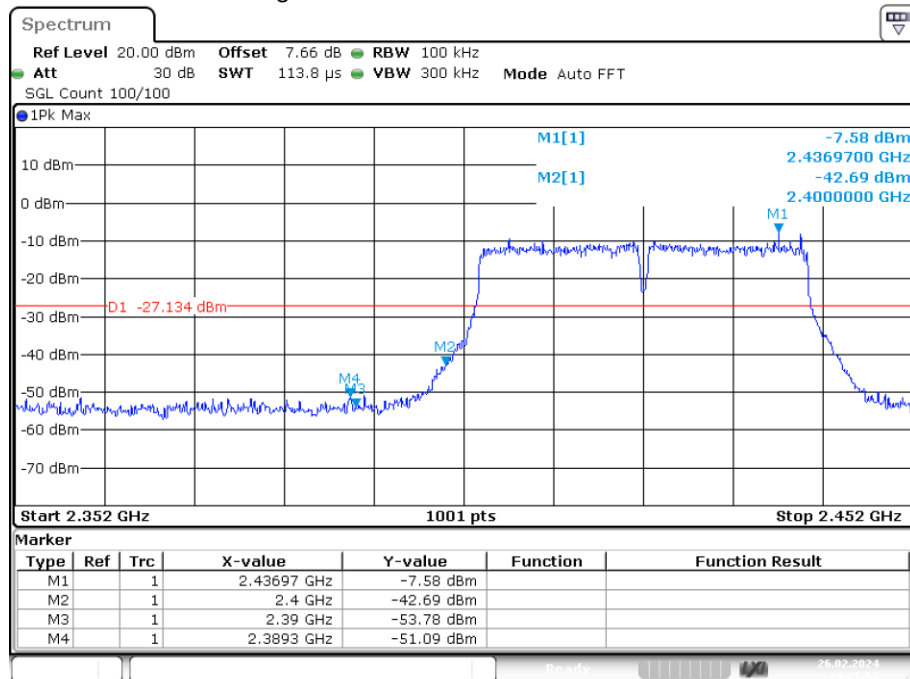
Date: 26.FEB.2024 19:21:56

Band Edge NVNT n40 2422MHz MIMO Ref



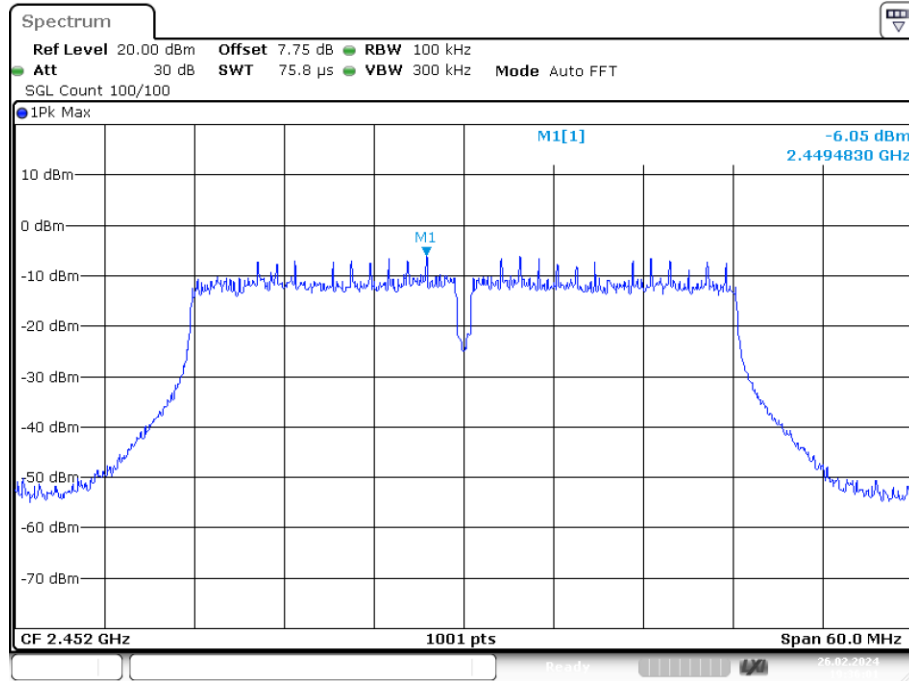
Date: 26.FEB.2024 19:27:46

Band Edge NVNT n40 2422MHz MIMO Emission



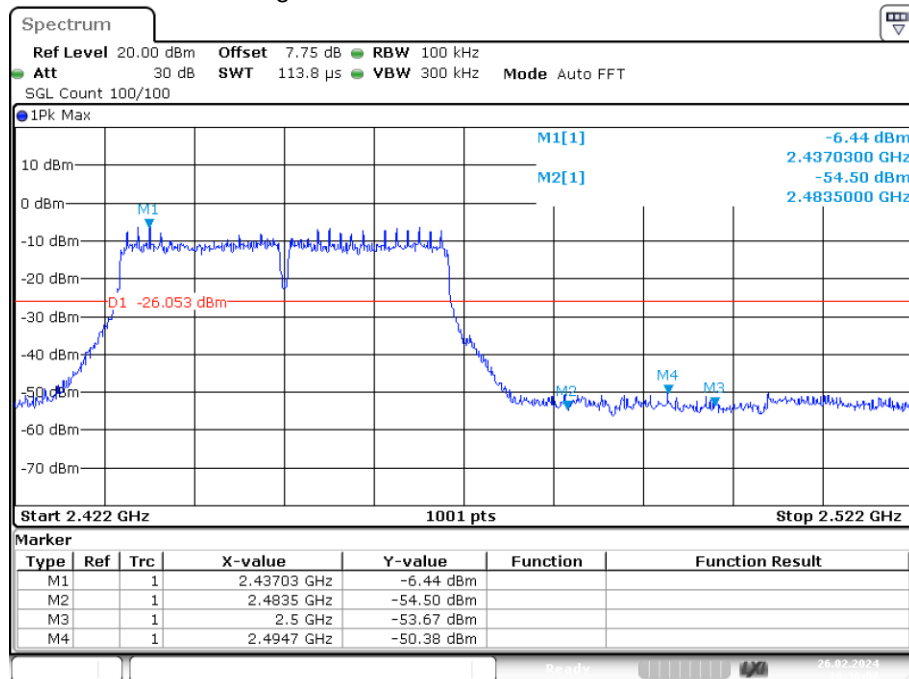
Date: 26.FEB.2024 19:27:51

Band Edge NVNT n40 2452MHz MIMO Ref



Date: 26.FEB.2024 19:36:02

Band Edge NVNT n40 2452MHz MIMO Emission



Date: 26.FEB.2024 19:36:07

- Note: 1. Except for mode b/g, other modes test the MIMO status.
 2. All antennas have been tested, 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

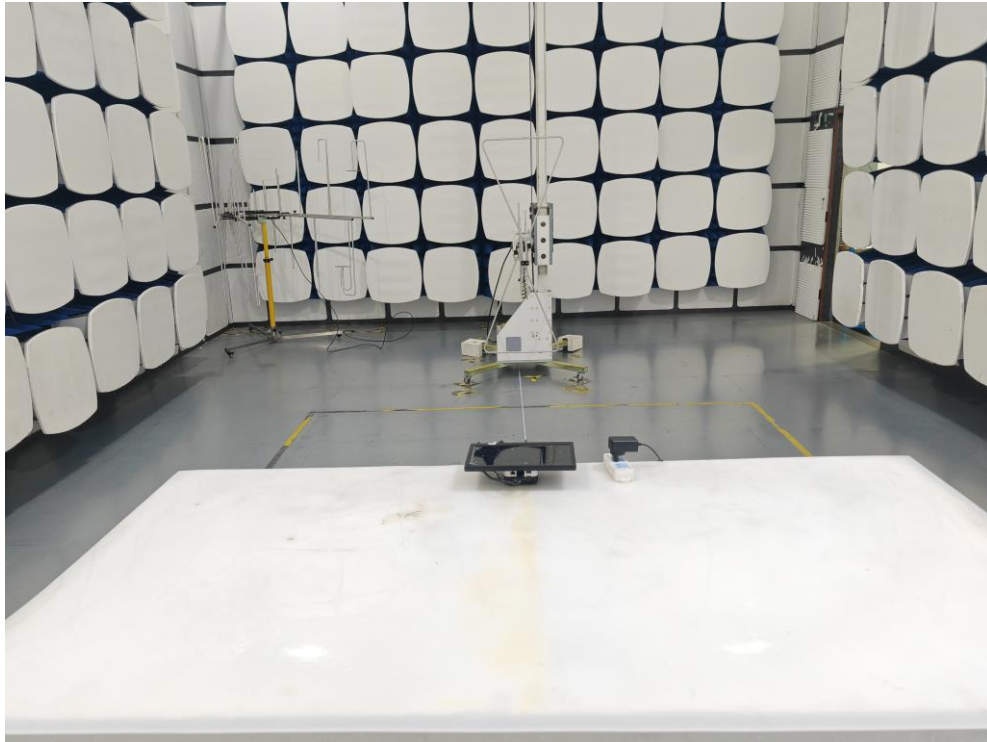
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

9.3. Results

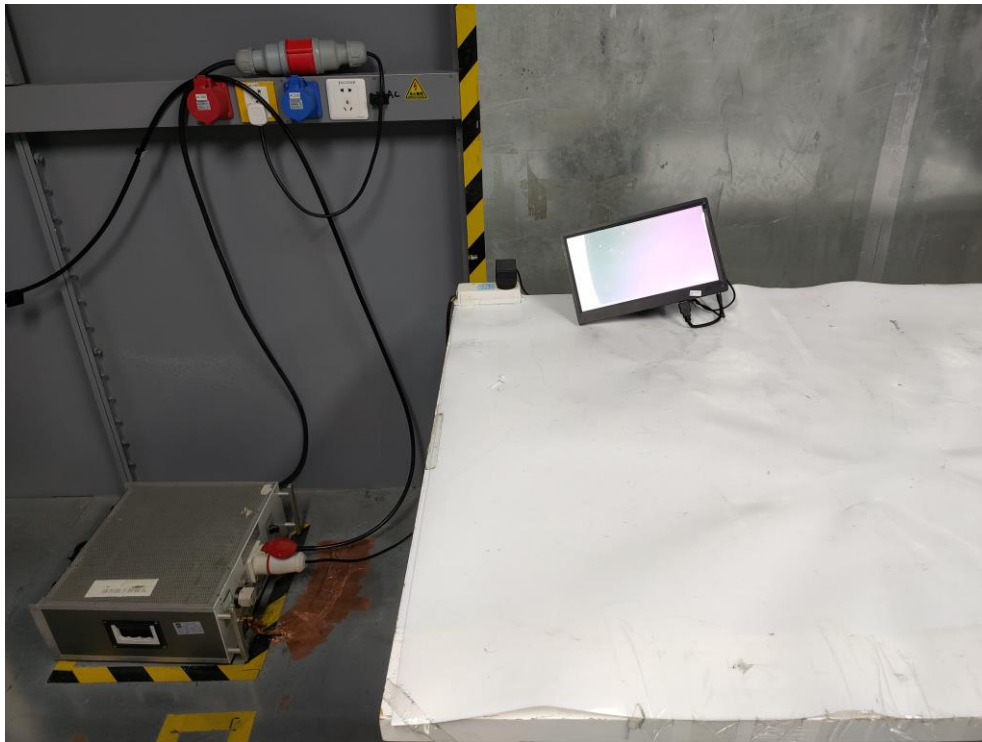
The EUT antenna is internal Antenna. It complies with the standard requirement.

10. TEST SETUP PHOTO

10.1. Photo of Radiated Emission test



10.2.Photo of Conducted Emission test



11. EUT PHOTO



