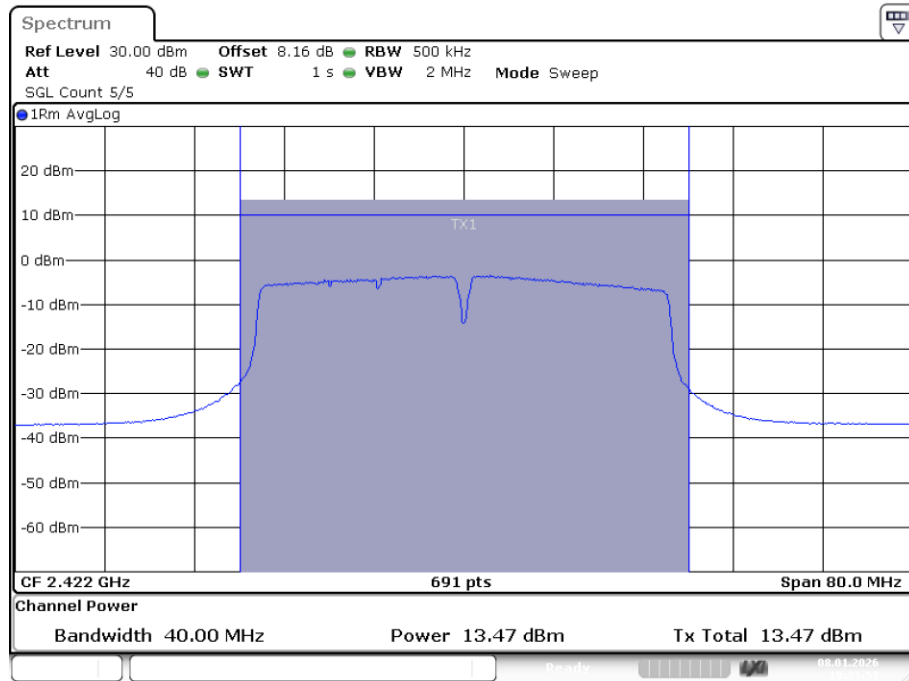
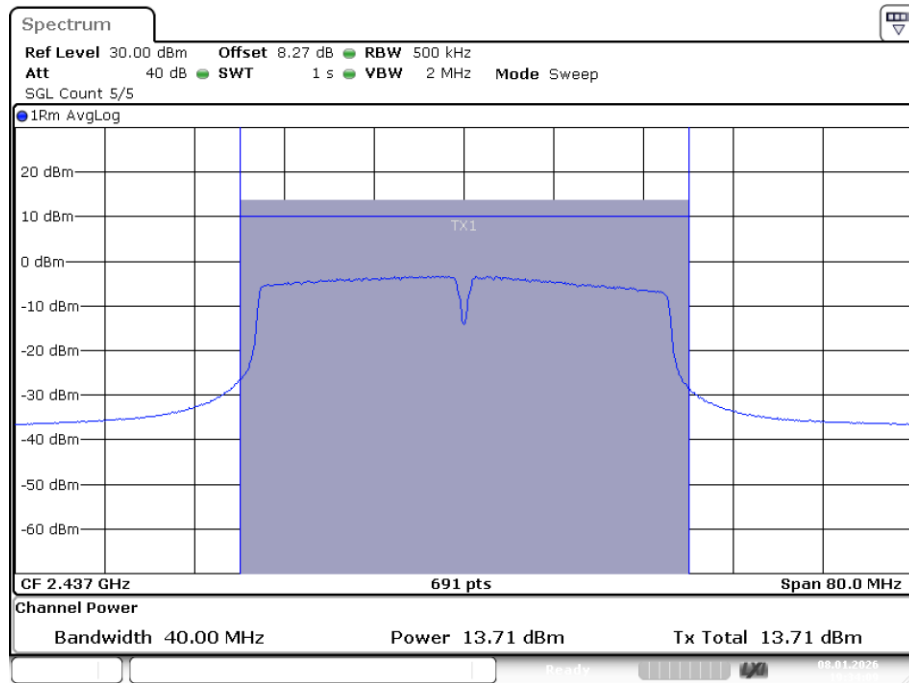




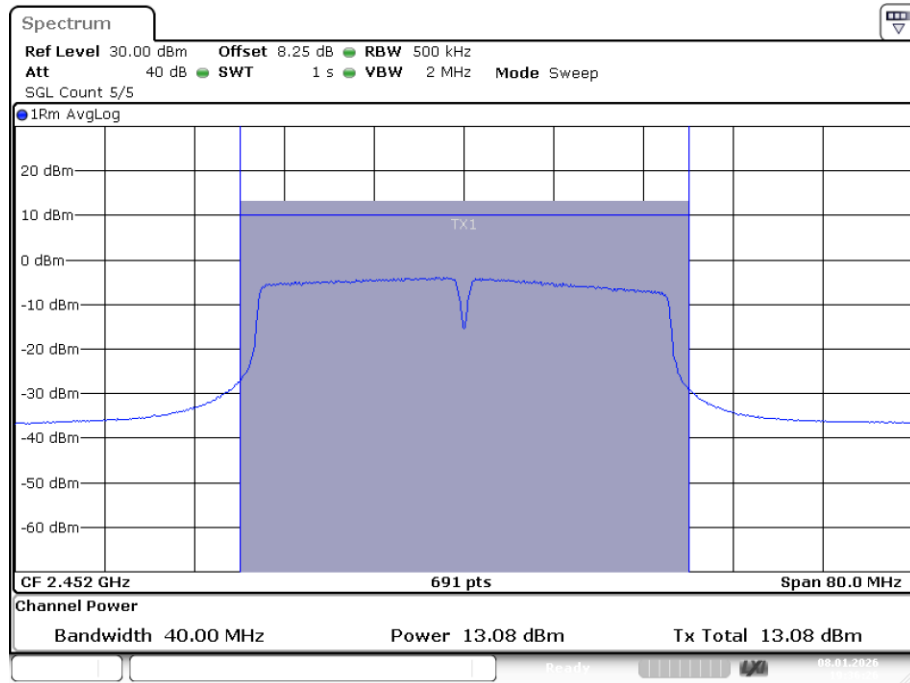
Date: 8.JAN.2026 19:31:52

Power NVNT n40 2437MHz Ant1



Date: 8.JAN.2026 19:34:09

Power NVNT n40 2452MHz Ant1



Date: 8.JAN.2026 19:36:26

8. AVERAGE POWER SPECTRAL DENSITY

8.1. Test limits

8.1.1 Please refer RSS-247 & FCC PART 15: 15.247.

8.1.2 For direct sequence systems, the peak 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.

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

8.2. Test Procedure

Details see the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

8.2.1 Place the EUT on the table and set it in transmitting mode.

8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set analyzer center frequency to DTS channel center frequency.

8.2.4 Set span to > 1.5 times the OBW.

8.2.5 Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

8.2.6 Set VBW $\geq [3 * \text{RBW}]$.

8.2.7 Detector = power averaging (rms)

8.2.8 Ensure that the number of measurement points in the sweep $\geq [2 * \text{span} / \text{RBW}]$.

8.2.9 Sweep time = auto couple.

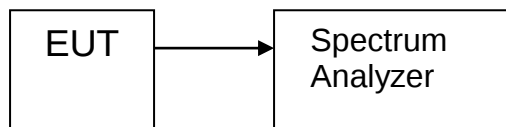
8.2.10 Employ trace averaging (rms) mode over a minimum of 100 traces.

8.2.11 Use the peak marker function to determine the maximum amplitude level.

8.2.12 If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

8.2.13 Repeat the above procedure until the measurements for all frequencies are completed.

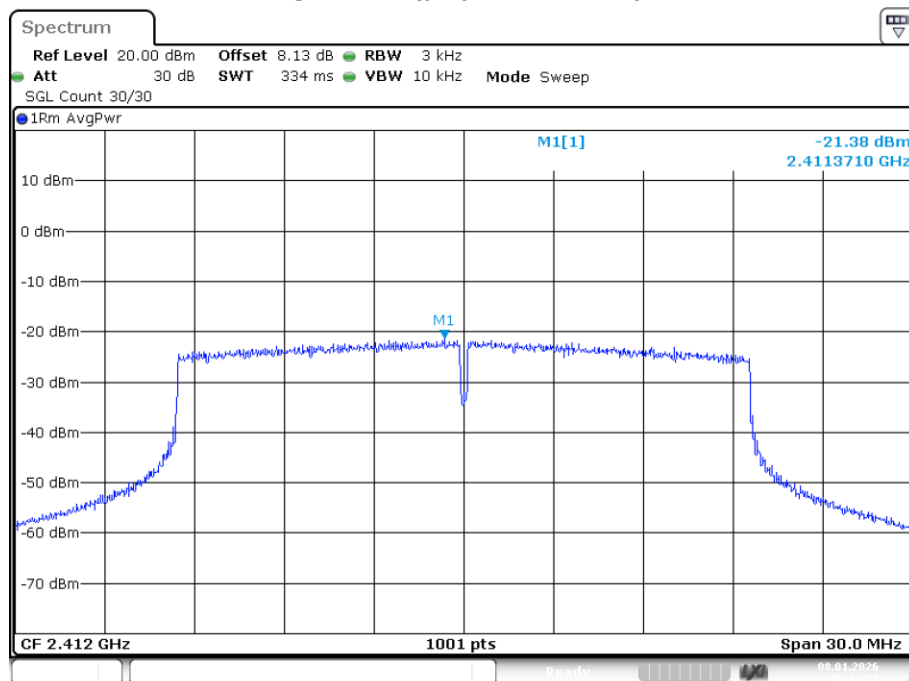
8.3. Test Setup



8.4. Test Results

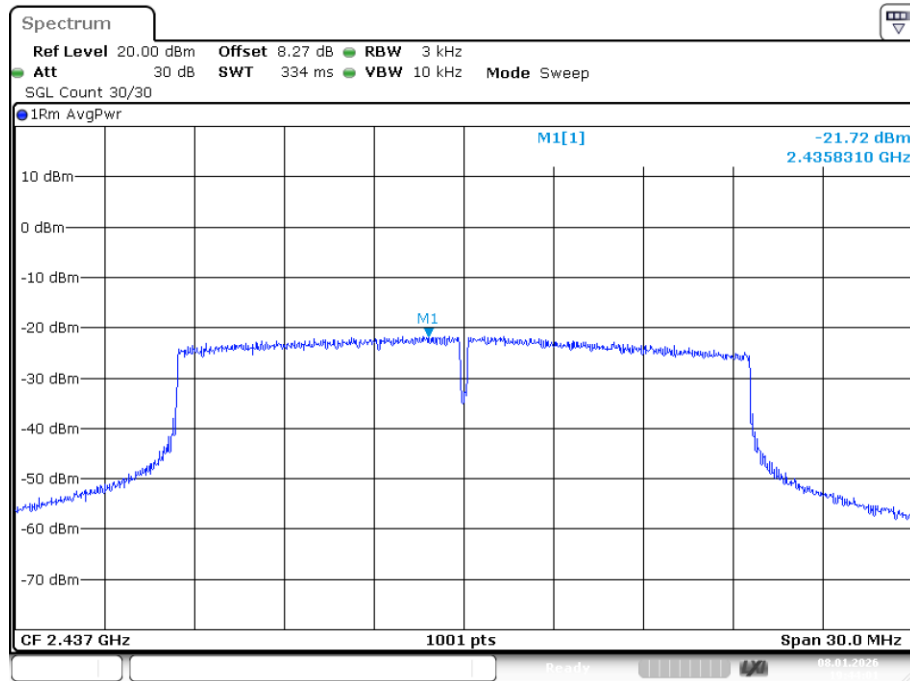
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3KHz)	Duty Factor (dB)	Total PSD (dBm/3KHz)	Limit (dBm/3KHz)	Verdict
NVNT	ax20	2412	Ant1	-21.377	0.34	-21.037	8	Pass
NVNT	ax20	2437	Ant1	-21.719	0.58	-21.139	8	Pass
NVNT	ax20	2462	Ant1	-21.846	0.4	-21.446	8	Pass
NVNT	ax40	2422	Ant1	-24.492	0.74	-23.752	8	Pass
NVNT	ax40	2437	Ant1	-24.707	0.69	-24.017	8	Pass
NVNT	ax40	2452	Ant1	-25.041	1.1	-23.941	8	Pass
NVNT	b	2412	Ant1	-18.223	0.06	-18.163	8	Pass
NVNT	b	2437	Ant1	-17.034	0.05	-16.984	8	Pass
NVNT	b	2462	Ant1	-18.333	0.06	-18.273	8	Pass
NVNT	g	2412	Ant1	-20.83	0.27	-20.56	8	Pass
NVNT	g	2437	Ant1	-20.491	0.27	-20.221	8	Pass
NVNT	g	2462	Ant1	-20.667	0.37	-20.297	8	Pass
NVNT	n20	2412	Ant1	-20.51	0.33	-20.18	8	Pass
NVNT	n20	2437	Ant1	-20.112	0.29	-19.822	8	Pass
NVNT	n20	2462	Ant1	-20.695	0.46	-20.235	8	Pass
NVNT	n40	2422	Ant1	-24.103	0.73	-23.373	8	Pass
NVNT	n40	2437	Ant1	-23.611	0.88	-22.731	8	Pass
NVNT	n40	2452	Ant1	-24.105	0.8	-23.305	8	Pass

PSD NVNT ax20 2412MHz Ant1



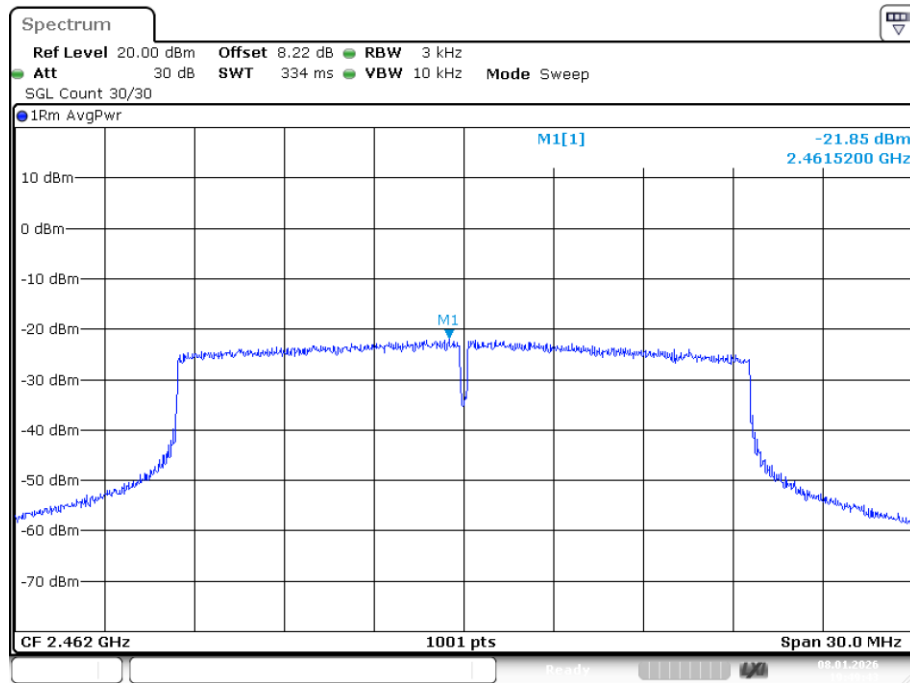
Date: 8.JAN.2026 19:41:38

PSD NVNT ax20 2437MHz Ant1



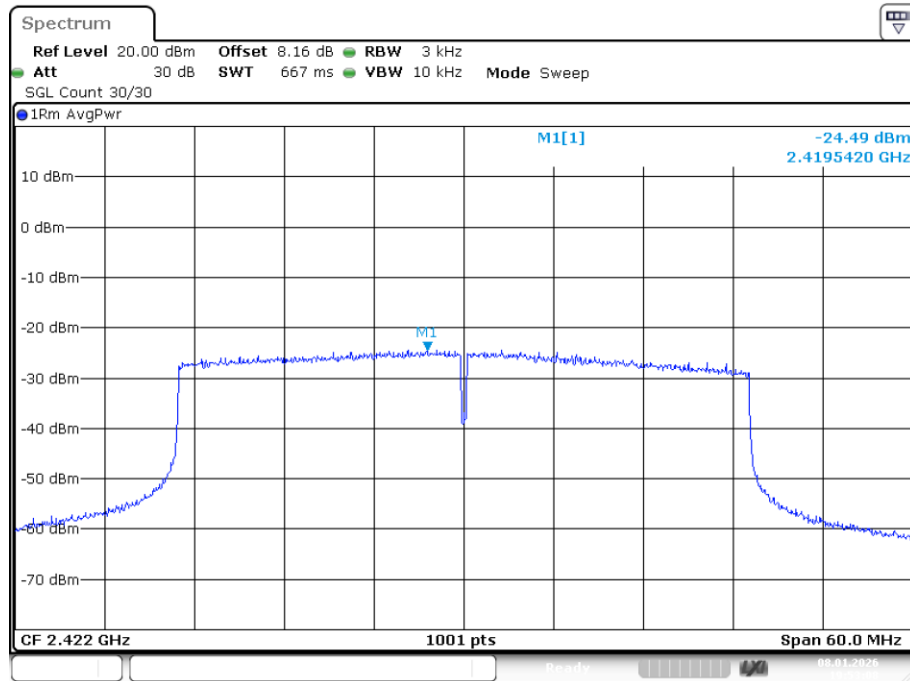
Date: 8.JAN.2026 19:44:00

PSD NVNT ax20 2462MHz Ant1



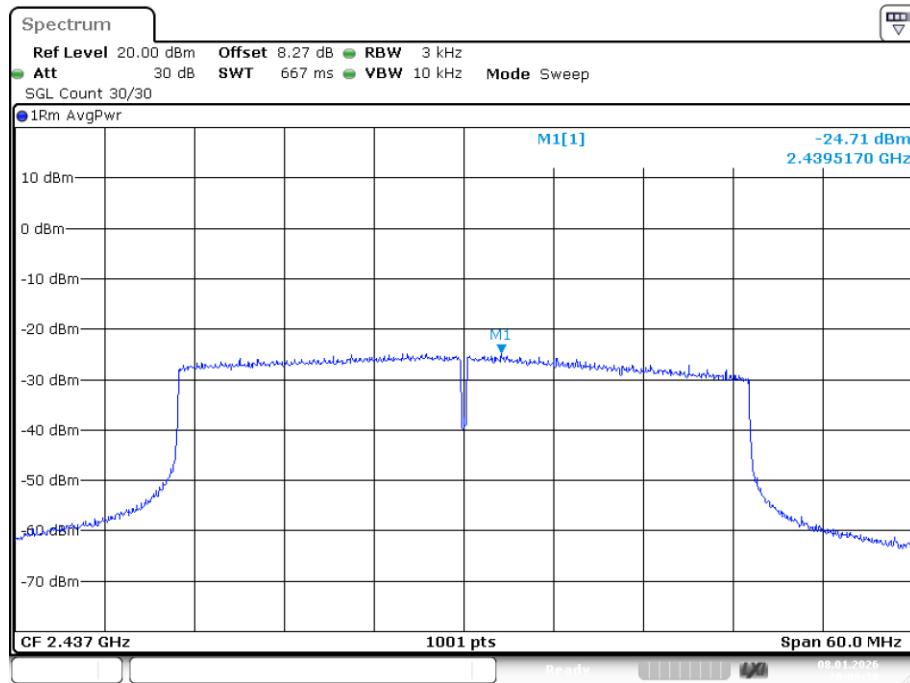
Date: 8.JAN.2026 19:49:43

PSD NVNT ax40 2422MHz Ant1



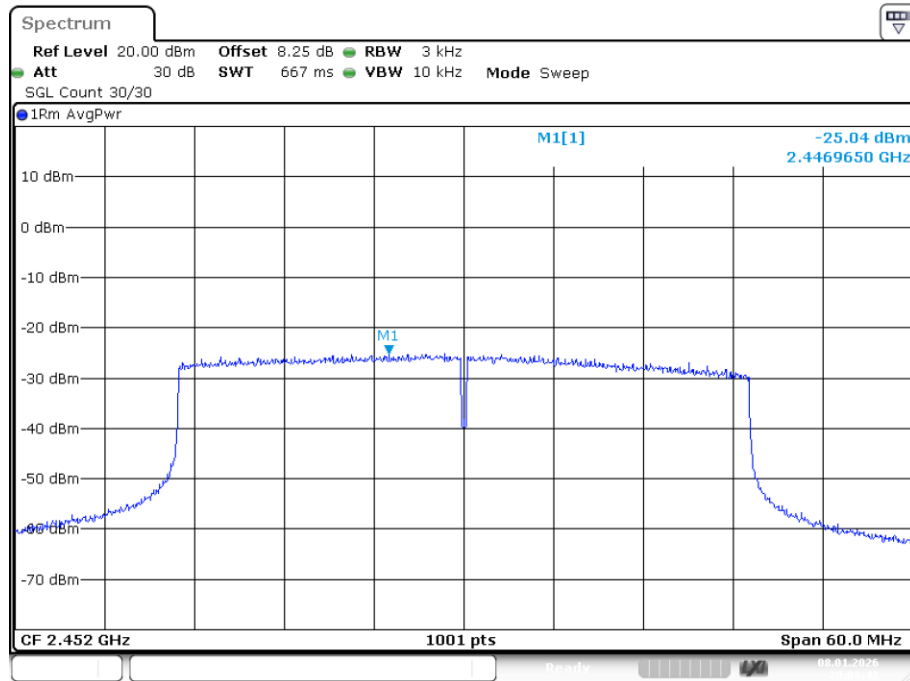
Date: 8.JAN.2026 19:53:07

PSD NVNT ax40 2437MHz Ant1



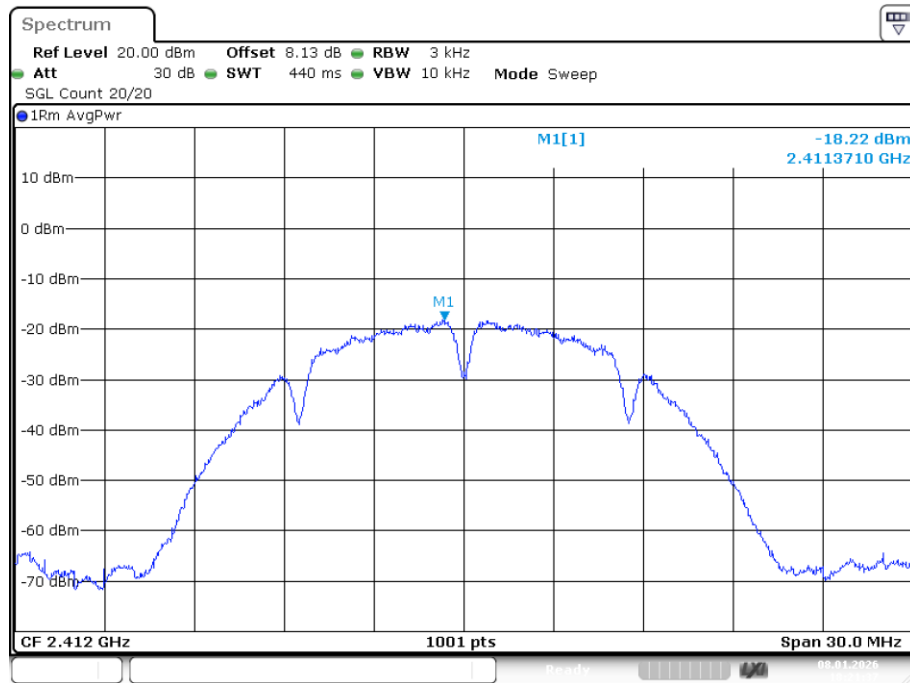
Date: 8.JAN.2026 20:00:30

PSD NVNT ax40 2452MHz Ant1



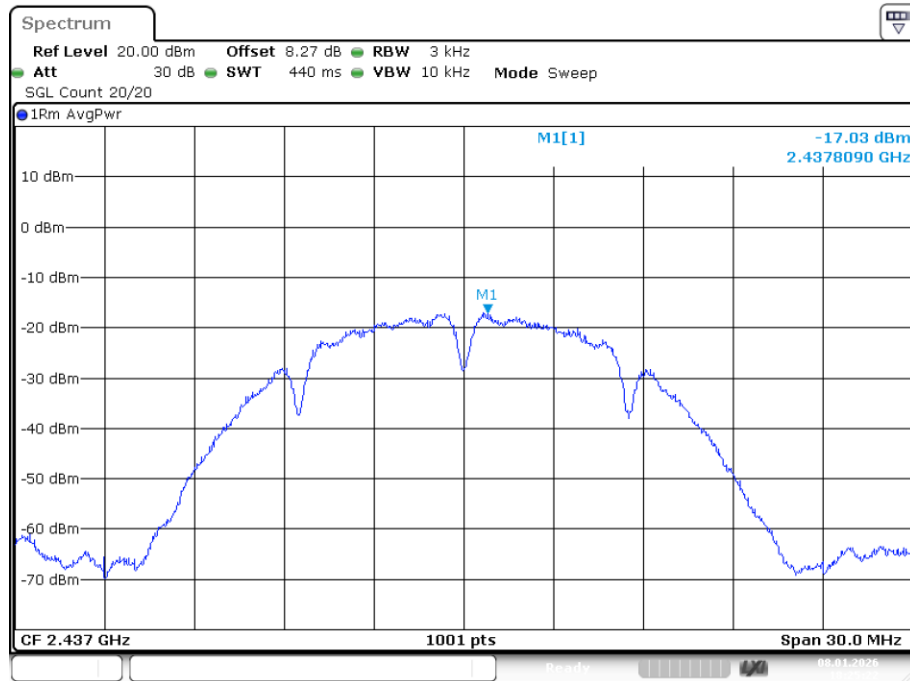
Date: 8.JAN.2026 20:03:42

PSD NVNT b 2412MHz Ant1



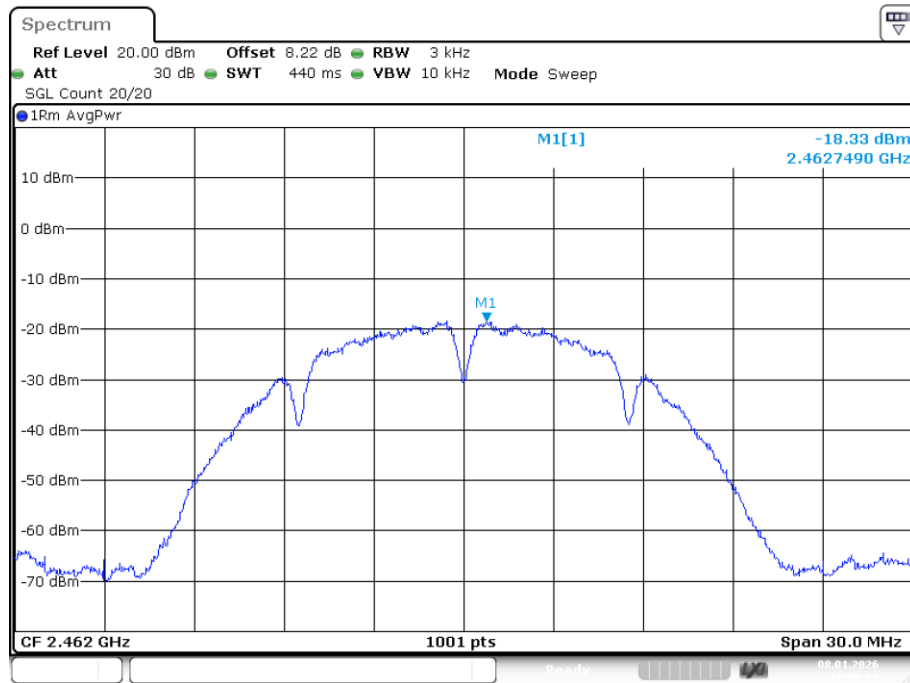
Date: 8.JAN.2026 18:21:38

PSD NVNT b 2437MHz Ant1



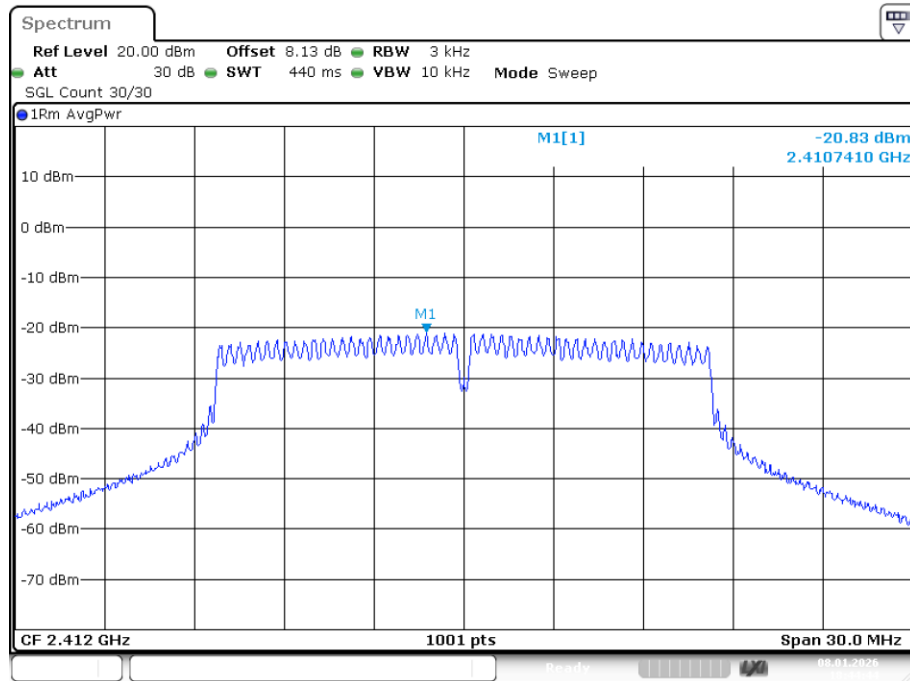
Date: 8.JAN.2026 18:25:22

PSD NVNT b 2462MHz Ant1



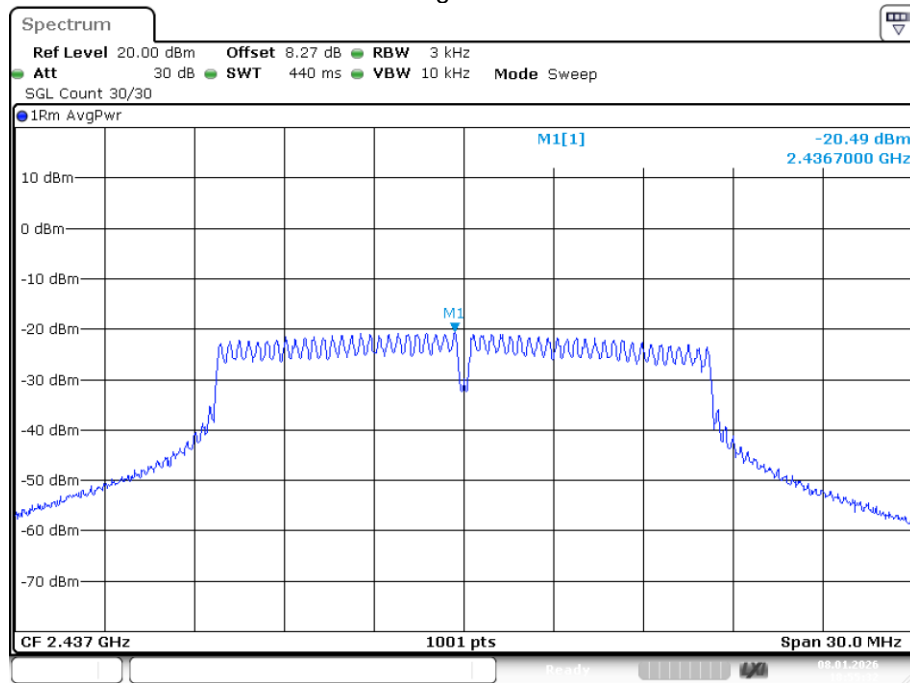
Date: 8.JAN.2026 18:40:51

PSD NVNT g 2412MHz Ant1



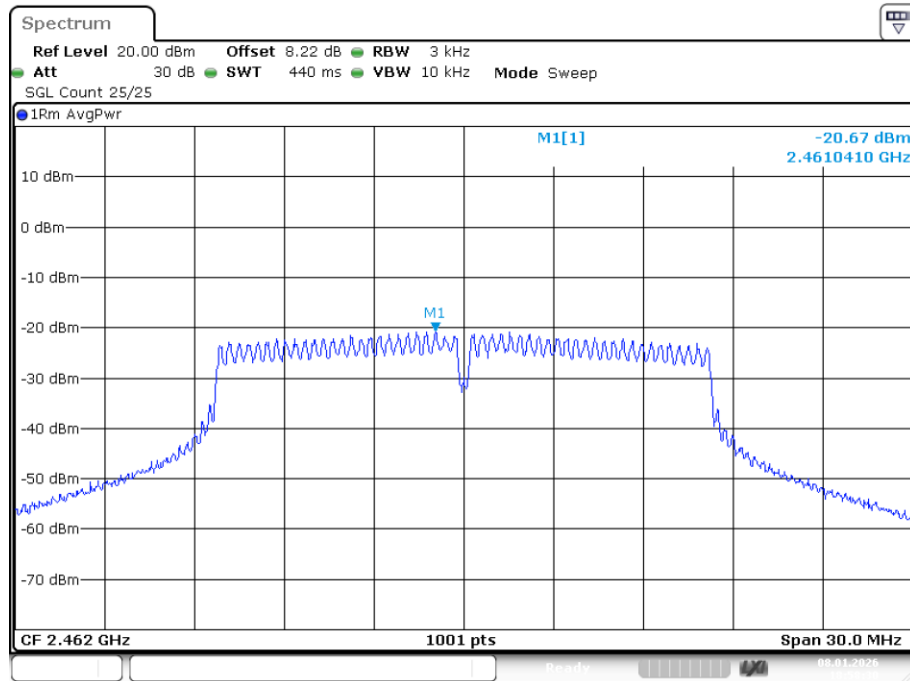
Date: 8.JAN.2026 18:44:44

PSD NVNT g 2437MHz Ant1



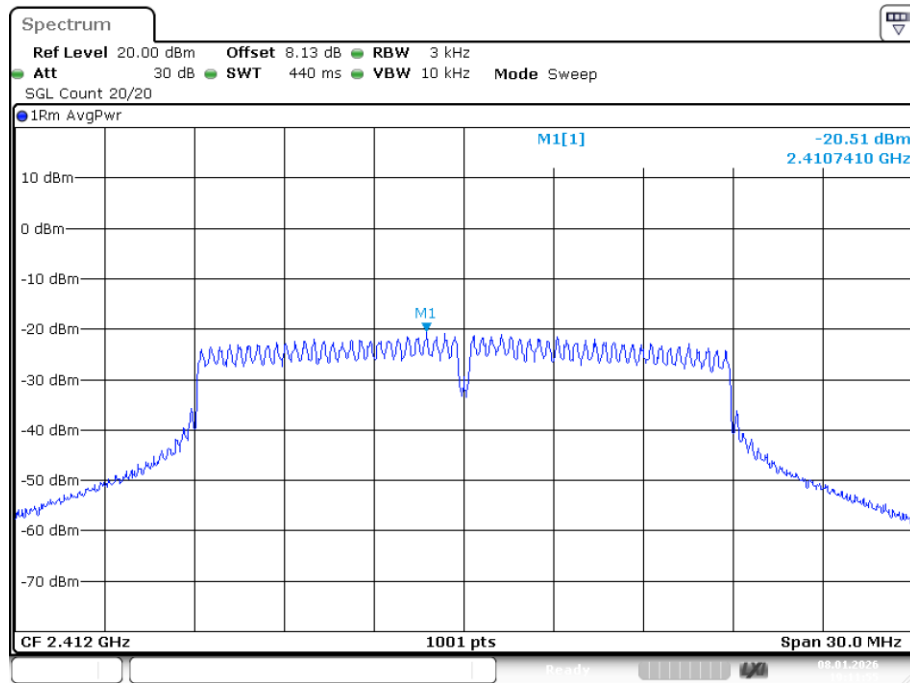
Date: 8.JAN.2026 18:55:31

PSD NVNT g 2462MHz Ant1



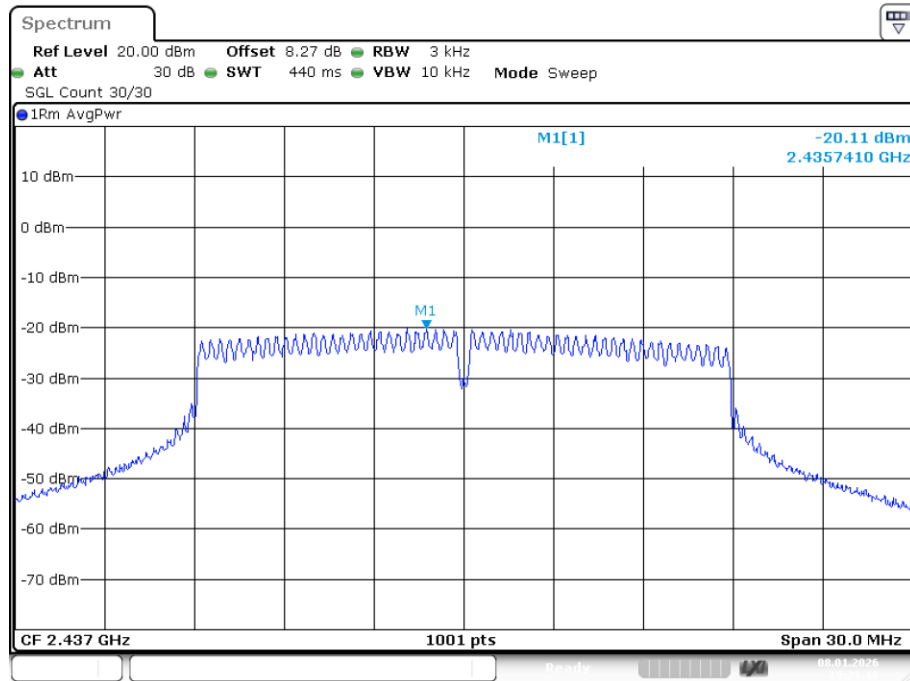
Date: 8.JAN.2026 18:58:29

PSD NVNT n20 2412MHz Ant1



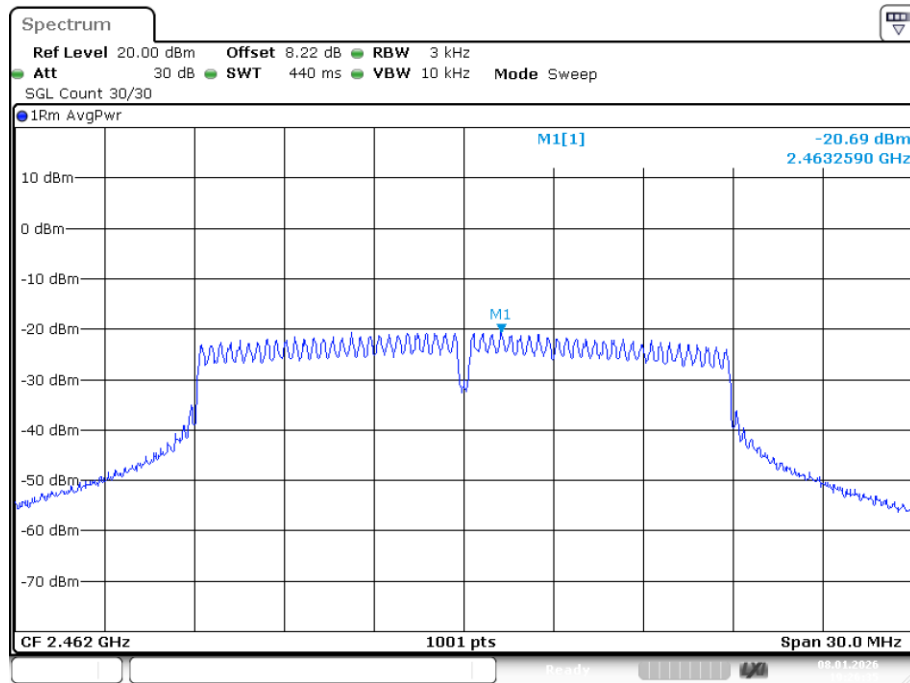
Date: 8.JAN.2026 19:11:55

PSD NVNT n20 2437MHz Ant1



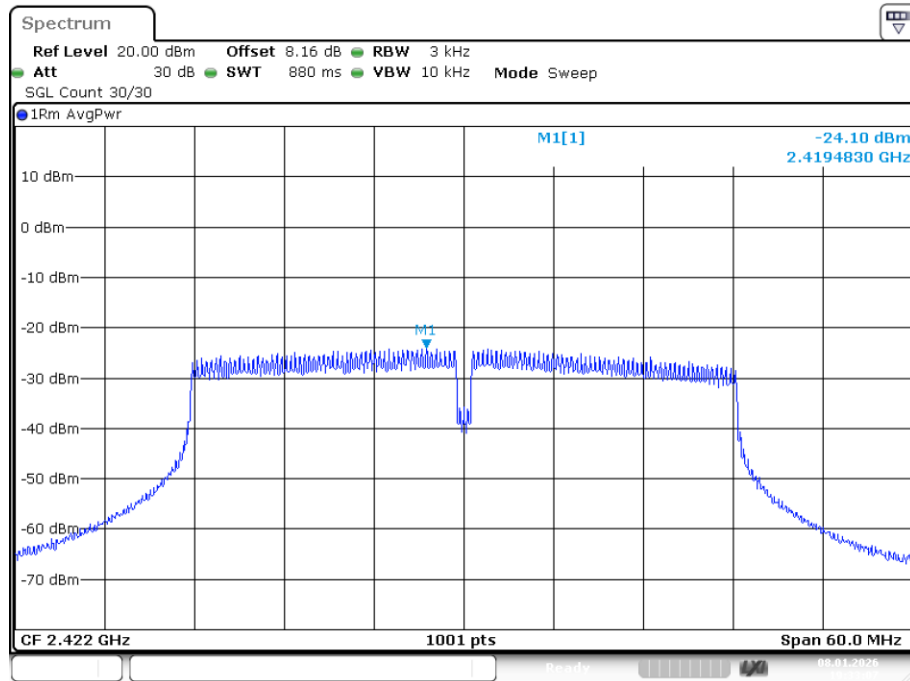
Date: 8.JAN.2026 19:23:17

PSD NVNT n20 2462MHz Ant1



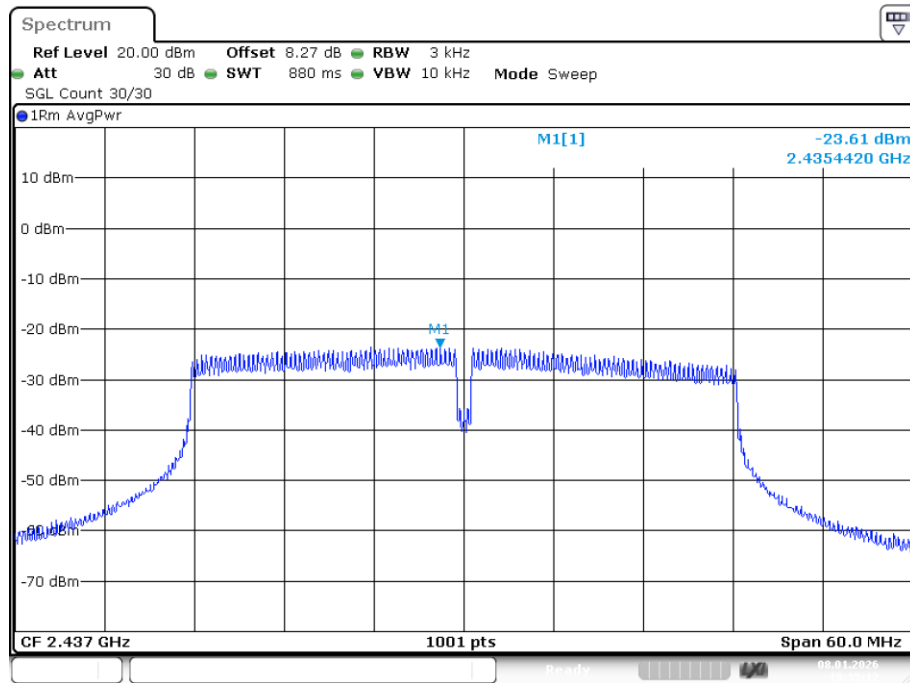
Date: 8.JAN.2026 19:26:35

PSD NVNT n40 2422MHz Ant1



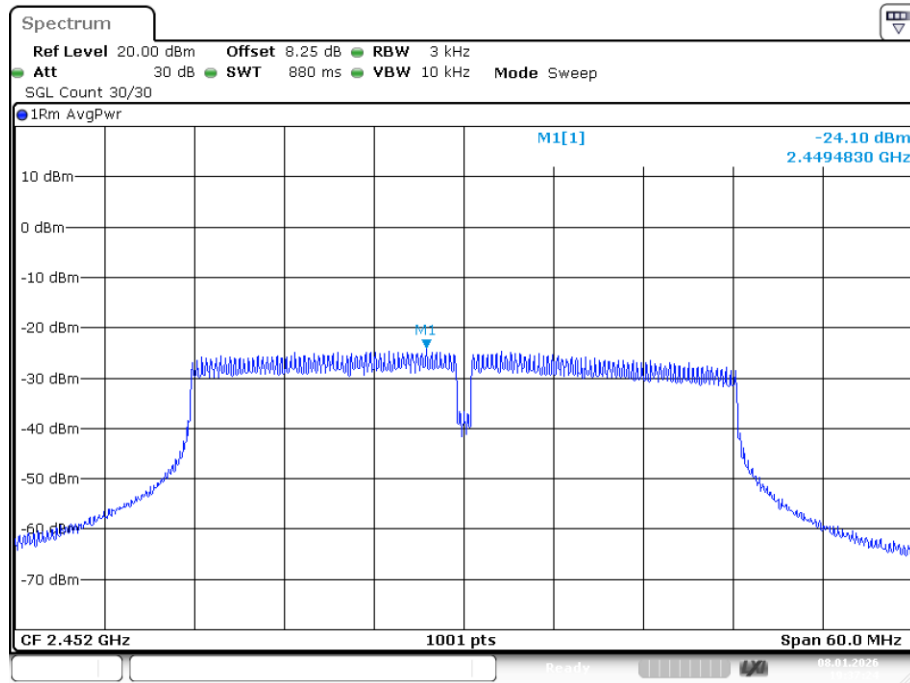
Date: 8.JAN.2026 19:33:06

PSD NVNT n40 2437MHz Ant1



Date: 8.JAN.2026 19:35:12

PSD NVNT n40 2452MHz Ant1



Date: 8.JAN.2026 19:37:23

9. BANDWIDTH

9.1. 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.

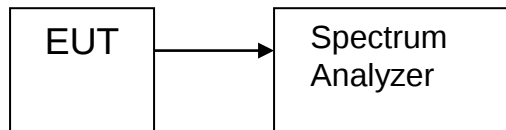
9.2. Test Procedure

Details see the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

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≥3*RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth and 6dB Bandwidth.

9.3. Test Setup

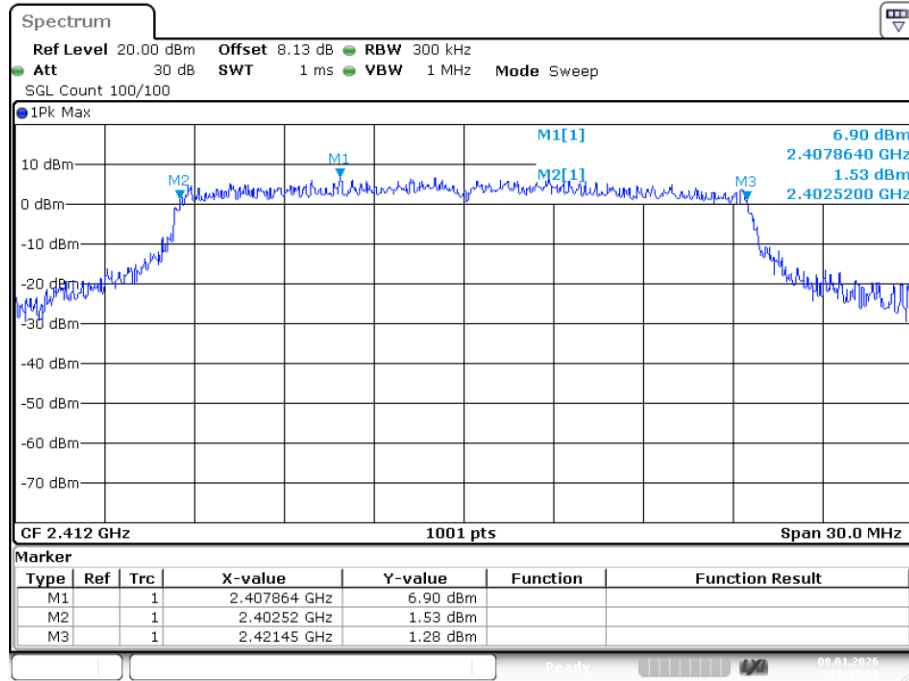


9.4. Test Results

-6dB Bandwidth

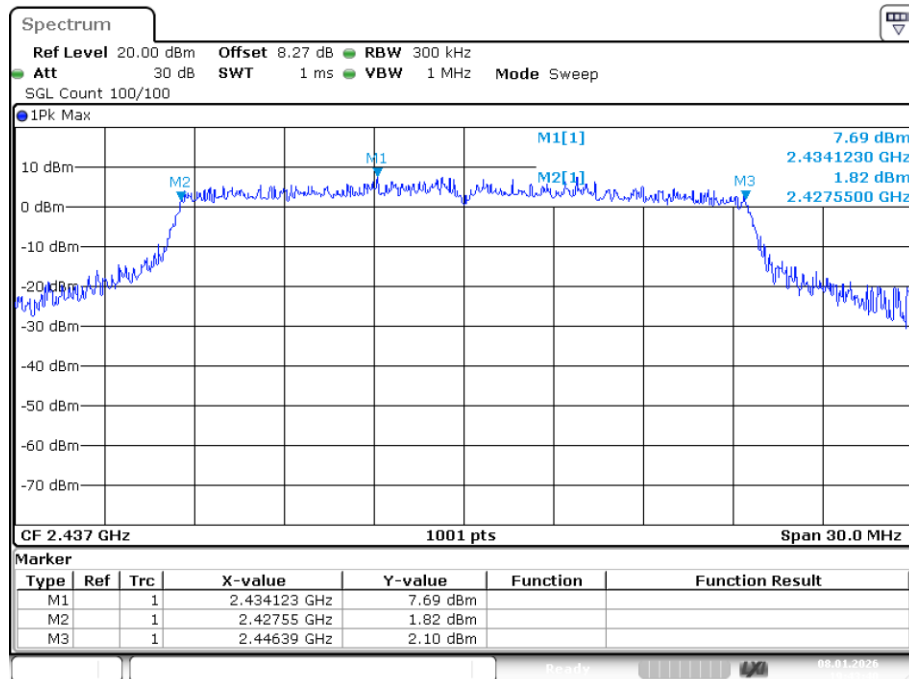
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant1	18.93	0.5	Pass
NVNT	ax20	2437	Ant1	18.84	0.5	Pass
NVNT	ax20	2462	Ant1	18.9	0.5	Pass
NVNT	ax40	2422	Ant1	37.32	0.5	Pass
NVNT	ax40	2437	Ant1	36.06	0.5	Pass
NVNT	ax40	2452	Ant1	37.62	0.5	Pass
NVNT	b	2412	Ant1	9.15	0.5	Pass
NVNT	b	2437	Ant1	9.18	0.5	Pass
NVNT	b	2462	Ant1	9.18	0.5	Pass
NVNT	g	2412	Ant1	16.41	0.5	Pass
NVNT	g	2437	Ant1	16.38	0.5	Pass
NVNT	g	2462	Ant1	16.38	0.5	Pass
NVNT	n20	2412	Ant1	17.58	0.5	Pass
NVNT	n20	2437	Ant1	17.49	0.5	Pass
NVNT	n20	2462	Ant1	17.64	0.5	Pass
NVNT	n40	2422	Ant1	35.76	0.5	Pass
NVNT	n40	2437	Ant1	36.06	0.5	Pass
NVNT	n40	2452	Ant1	36.36	0.5	Pass

-6dB Bandwidth NVNT ax20 2412MHz Ant1



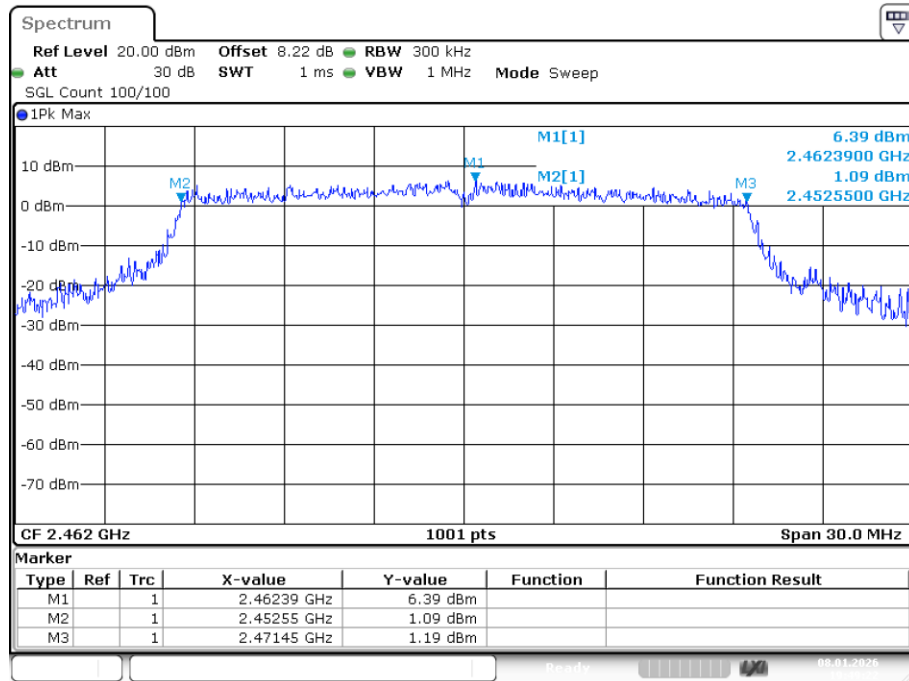
Date: 8.JAN.2026 19:41:17

-6dB Bandwidth NVNT ax20 2437MHz Ant1



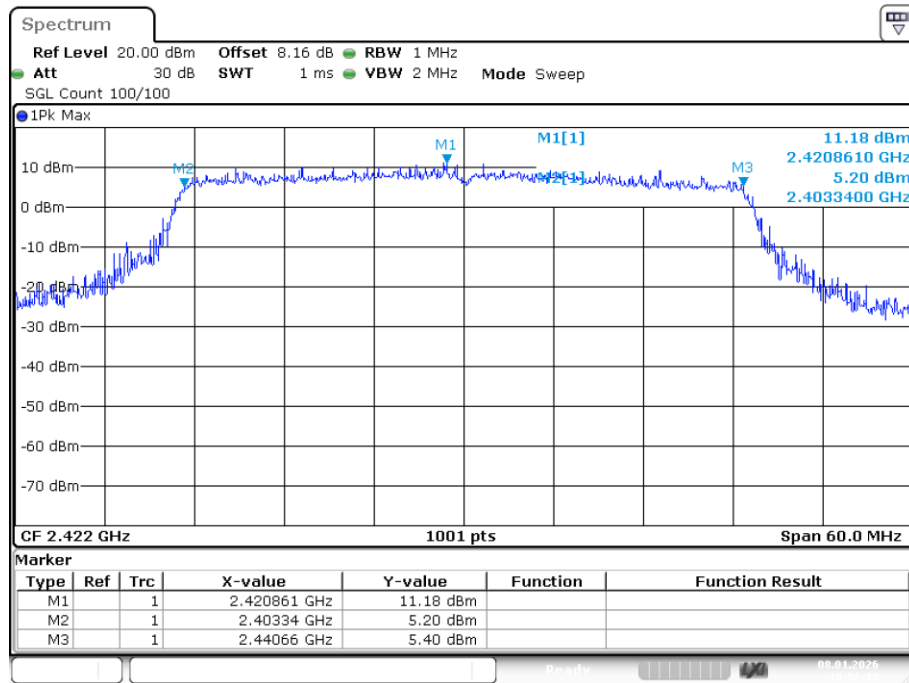
Date: 8.JAN.2026 19:43:40

-6dB Bandwidth NVNT ax20 2462MHz Ant1



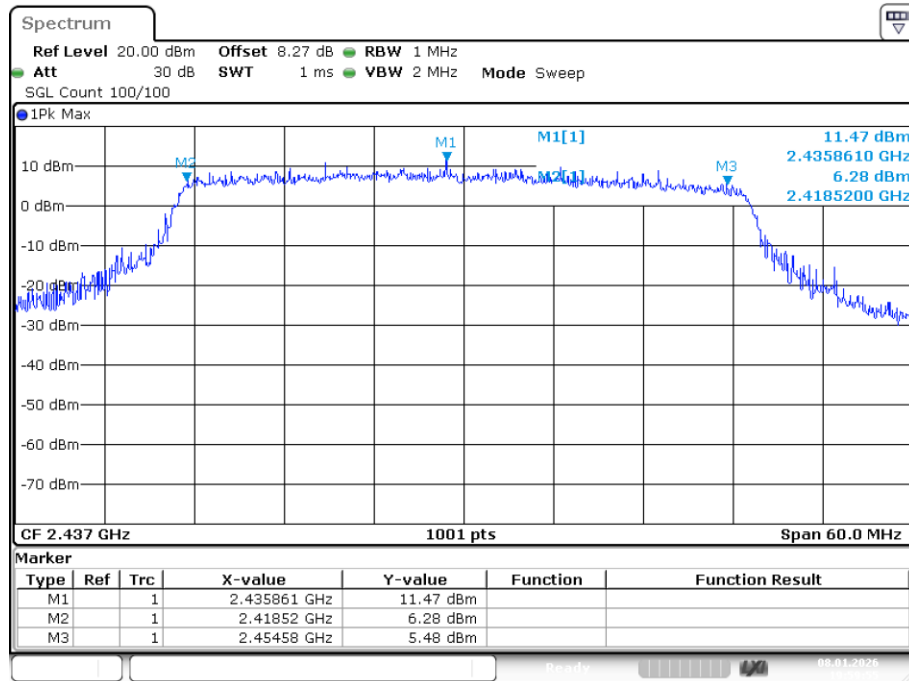
Date: 8.JAN.2026 19:49:22

-6dB Bandwidth NVNT ax40 2422MHz Ant1

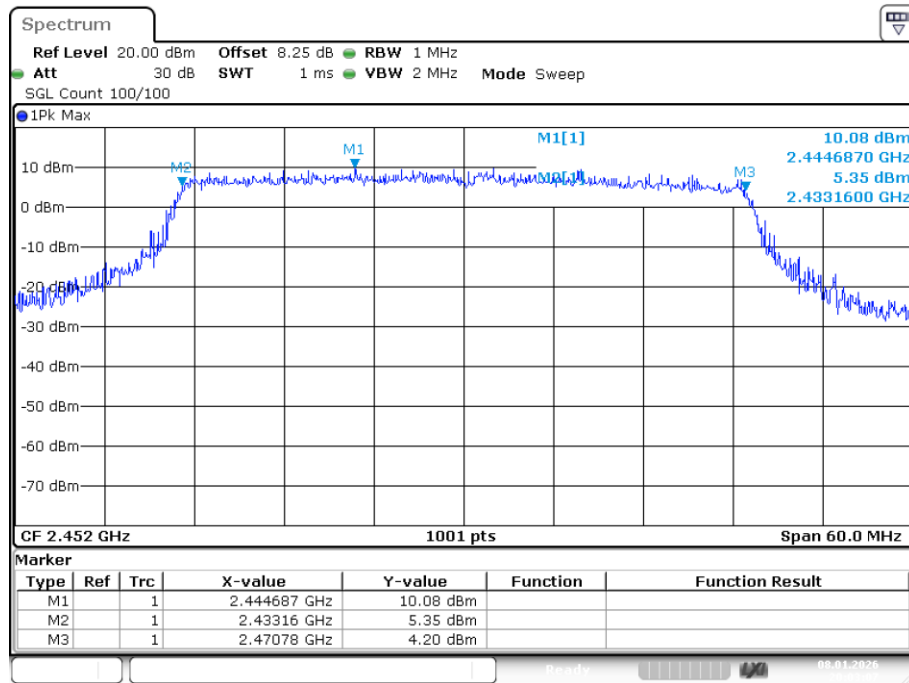


Date: 8.JAN.2026 19:52:32

-6dB Bandwidth NVNT ax40 2437MHz Ant1

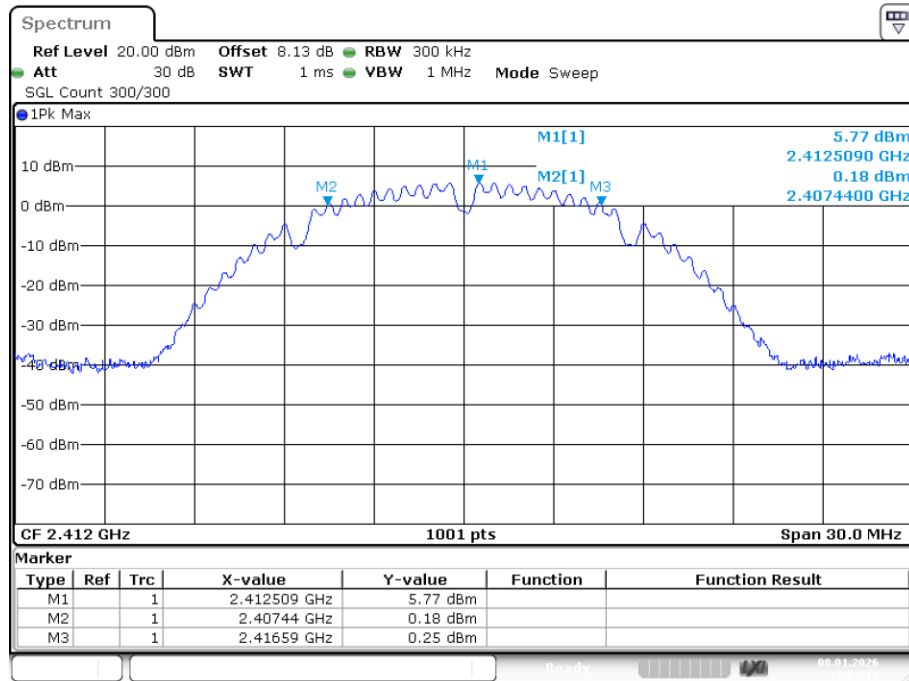


Date: 8.JAN.2026 19:59:55

-6dB Bandwidth NVNT ax40 2452MHz Ant1

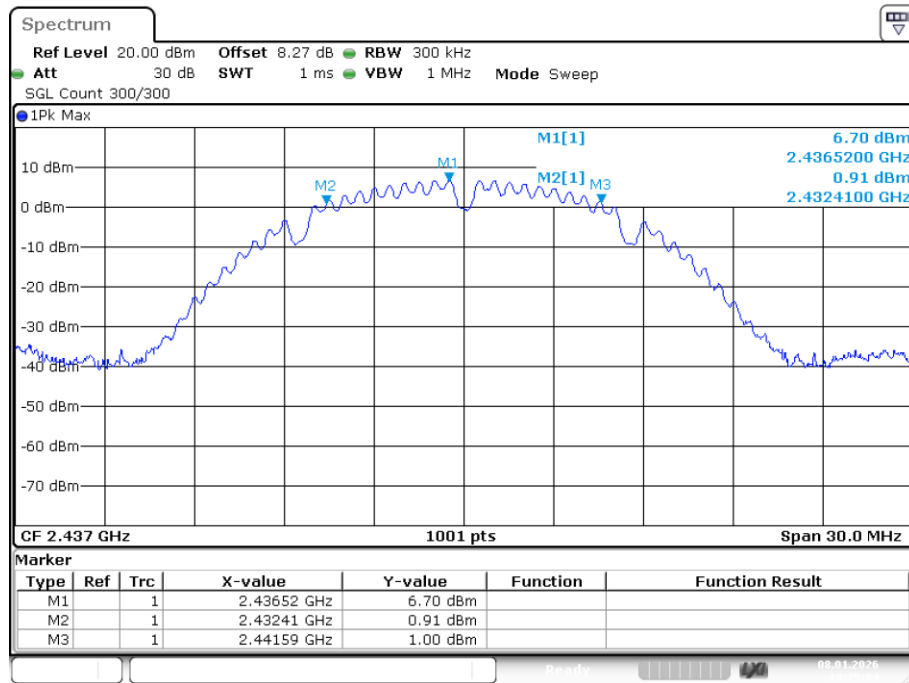
Date: 8.JAN.2026 20:03:07

-6dB Bandwidth NVNT b 2412MHz Ant1



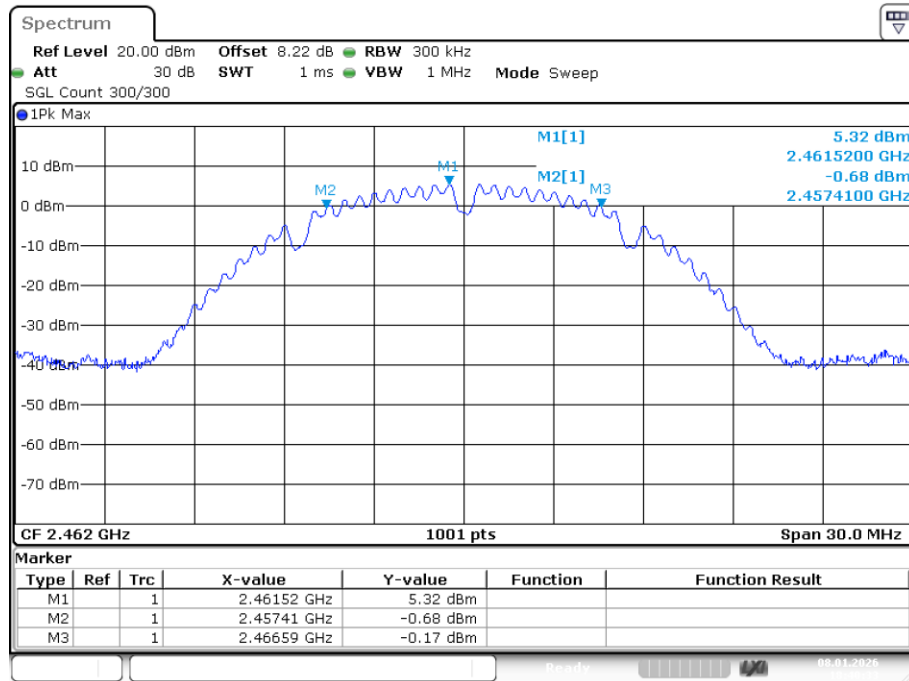
Date: 8.JAN.2026 18:21:19

-6dB Bandwidth NVNT b 2437MHz Ant1



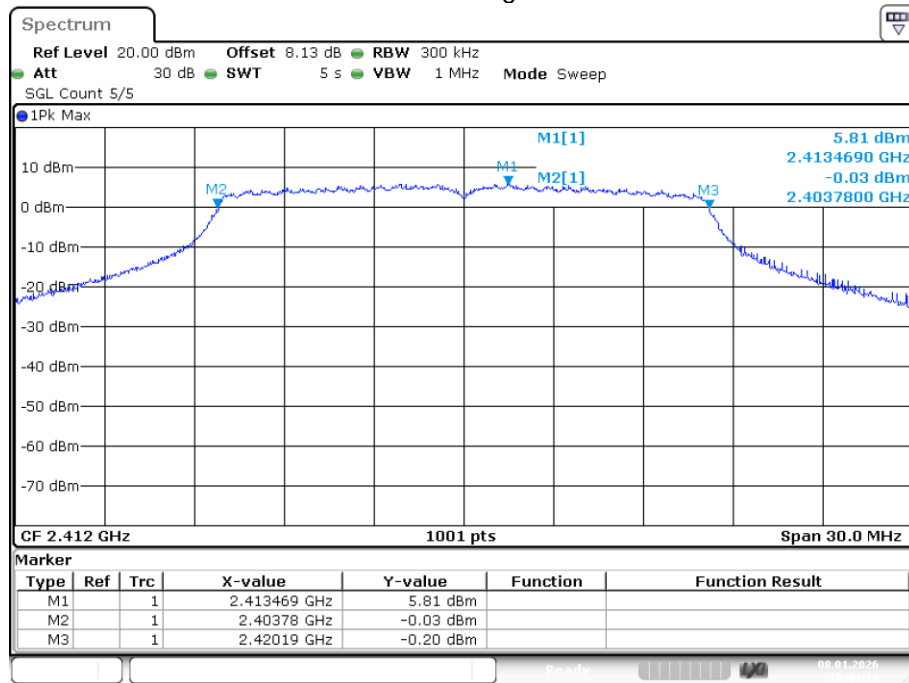
Date: 8.JAN.2026 18:25:04

-6dB Bandwidth NVNT b 2462MHz Ant1



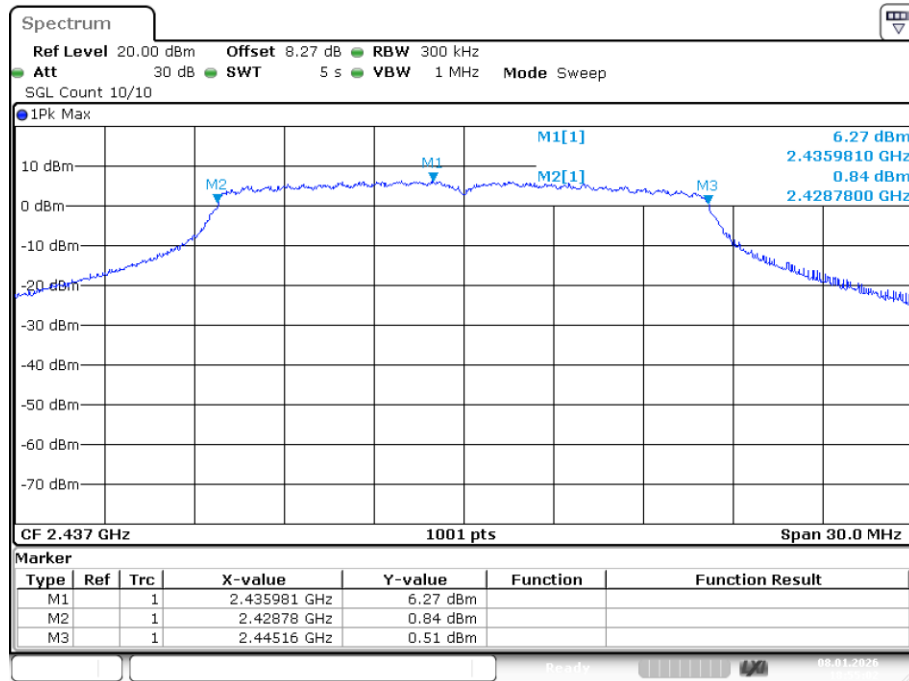
Date: 8.JAN.2026 18:40:32

-6dB Bandwidth NVNT g 2412MHz Ant1



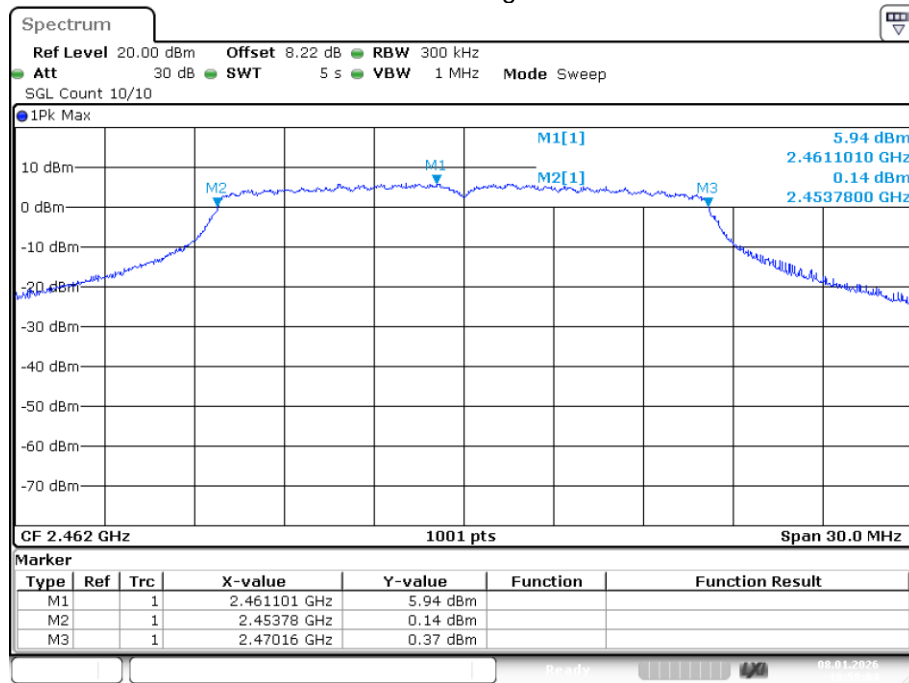
Date: 8.JAN.2026 18:44:14

-6dB Bandwidth NVNT g 2437MHz Ant1



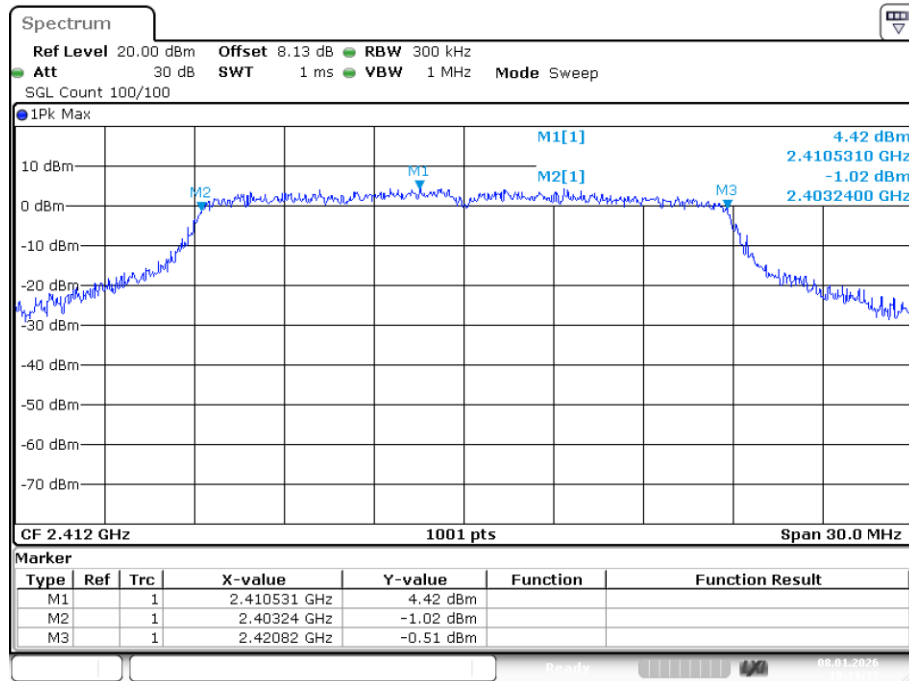
Date: 8.JAN.2026 18:55:02

-6dB Bandwidth NVNT g 2462MHz Ant1



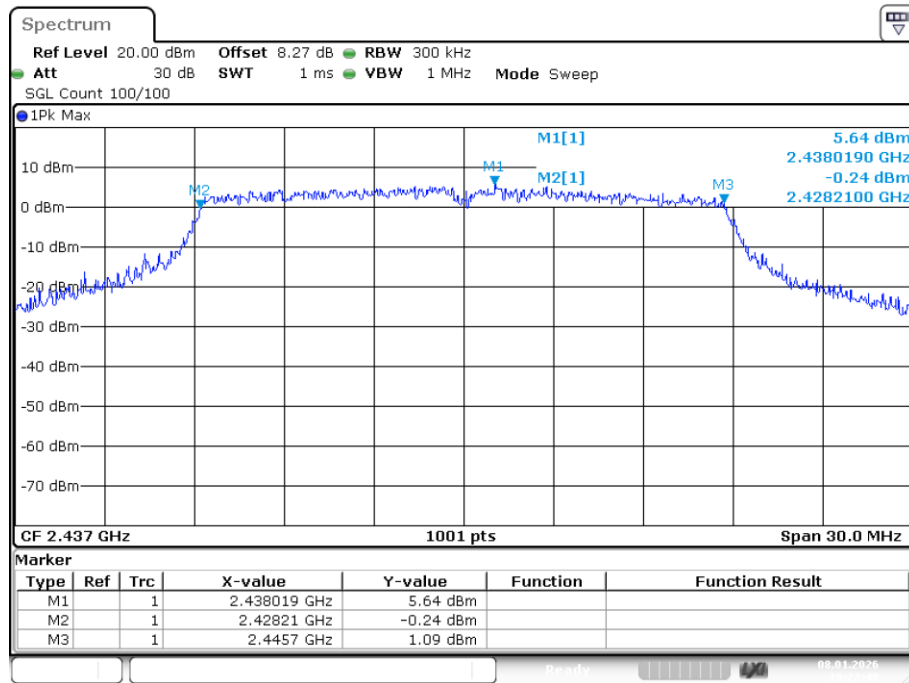
Date: 8.JAN.2026 18:58:04

-6dB Bandwidth NVNT n20 2412MHz Ant1



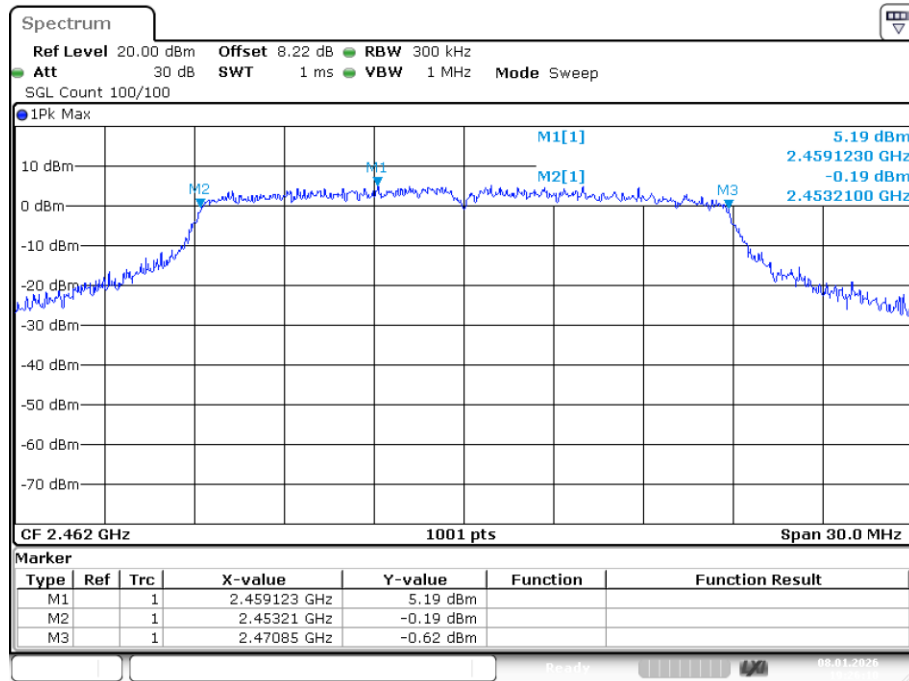
Date: 8.JAN.2026 19:11:34

-6dB Bandwidth NVNT n20 2437MHz Ant1



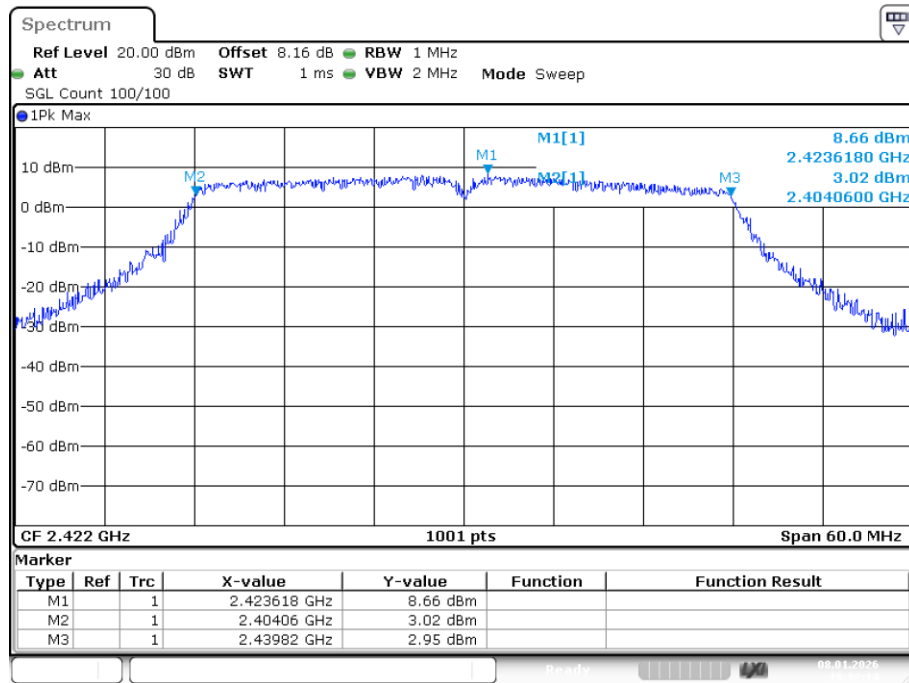
Date: 8.JAN.2026 19:22:48

-6dB Bandwidth NVNT n20 2462MHz Ant1



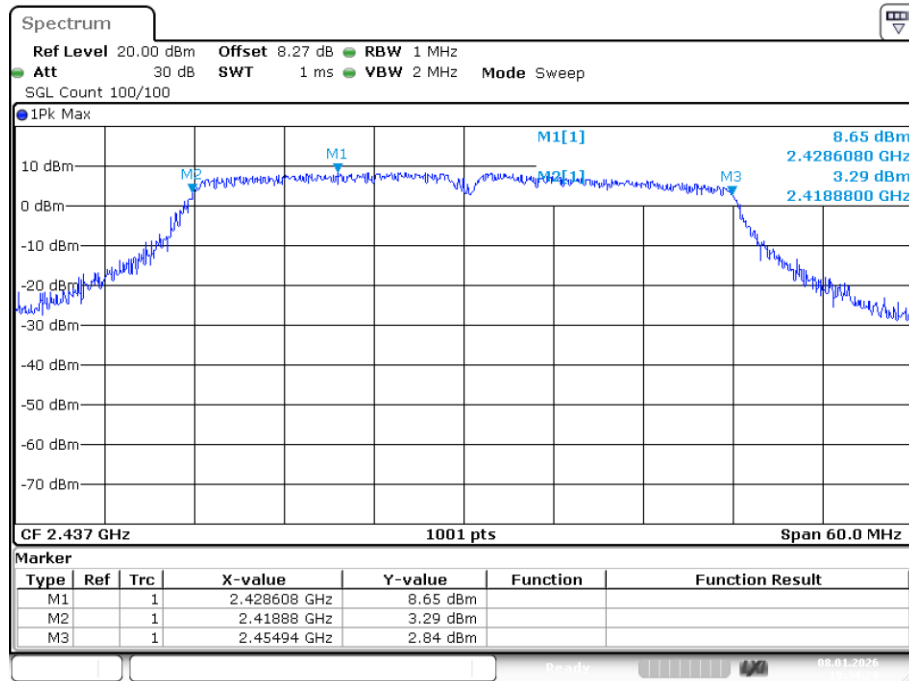
Date: 8.JAN.2026 19:26:10

-6dB Bandwidth NVNT n40 2422MHz Ant1



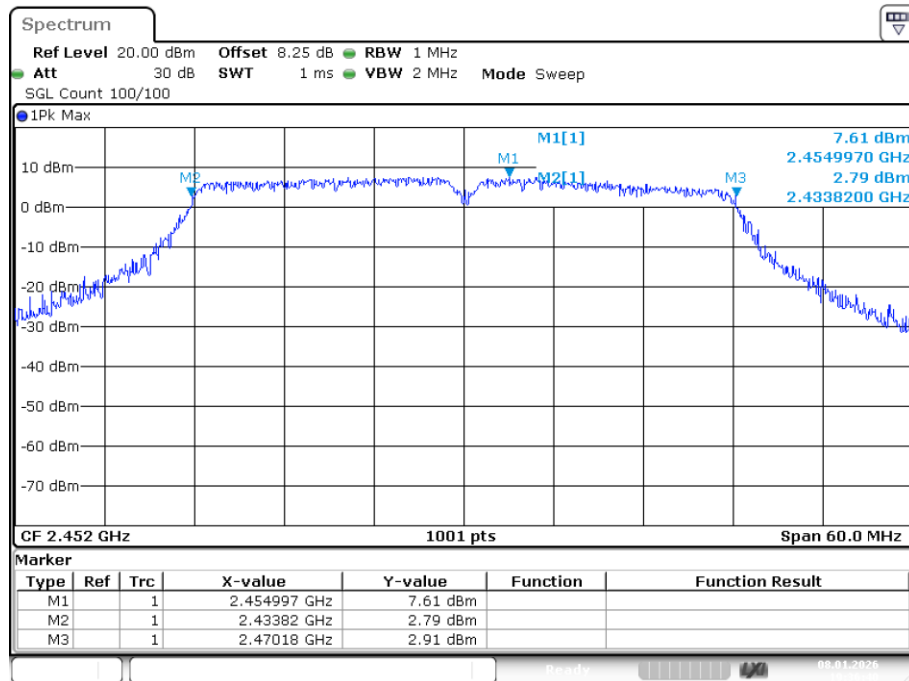
Date: 8.JAN.2026 19:32:14

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 8.JAN.2026 19:34:28

-6dB Bandwidth NVNT n40 2452MHz Ant1

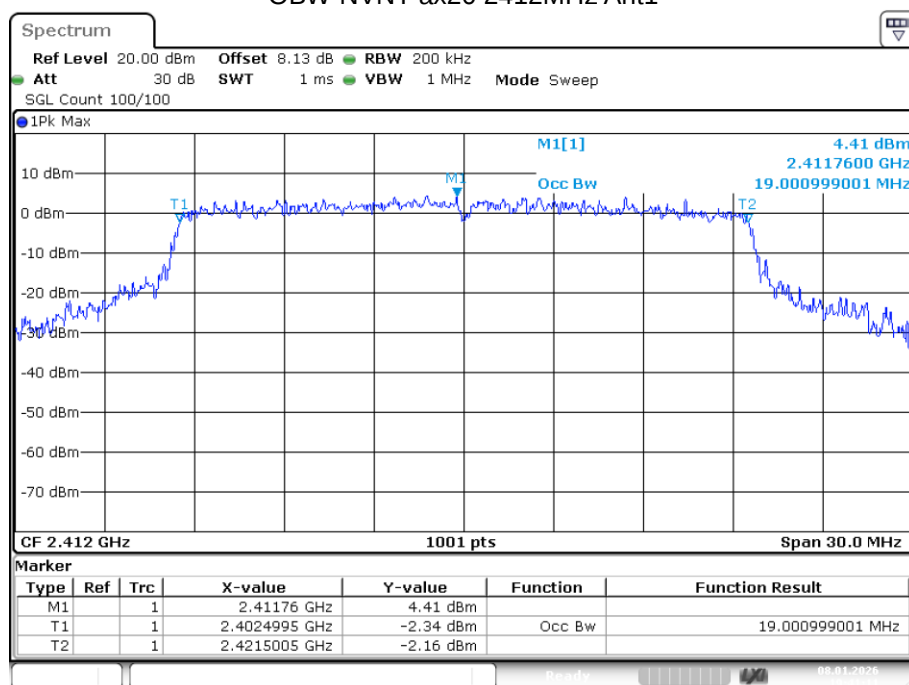


Date: 8.JAN.2026 19:36:39

Occupied Channel Bandwidth

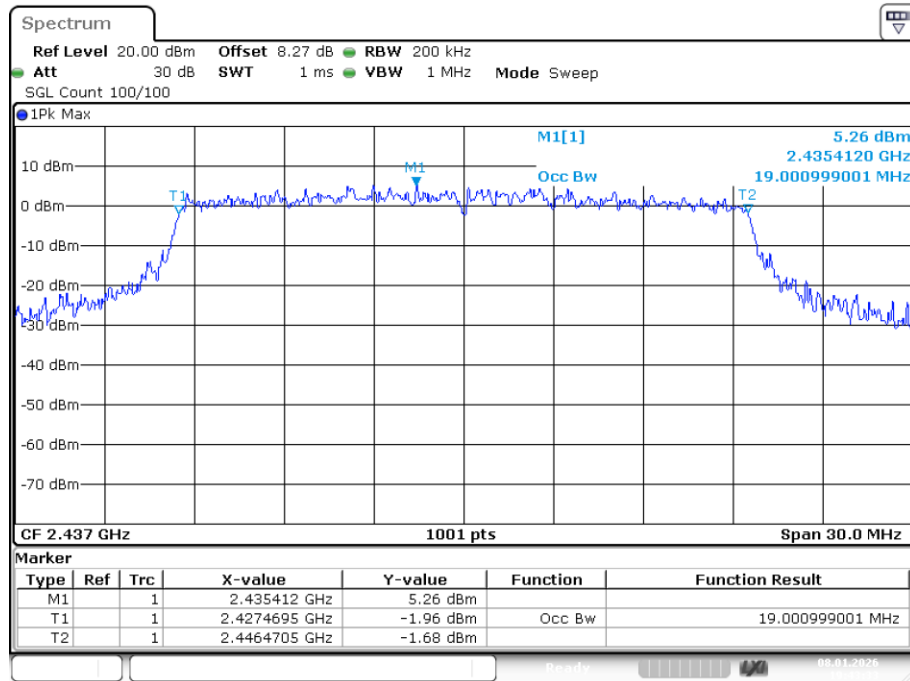
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	19.001
NVNT	ax20	2437	Ant1	19.001
NVNT	ax20	2462	Ant1	19.001
NVNT	ax40	2422	Ant1	37.762
NVNT	ax40	2437	Ant1	37.822
NVNT	ax40	2452	Ant1	37.762
NVNT	b	2412	Ant1	13.097
NVNT	b	2437	Ant1	13.127
NVNT	b	2462	Ant1	13.097
NVNT	g	2412	Ant1	16.663
NVNT	g	2437	Ant1	16.603
NVNT	g	2462	Ant1	16.573
NVNT	n20	2412	Ant1	17.802
NVNT	n20	2437	Ant1	17.772
NVNT	n20	2462	Ant1	17.772
NVNT	n40	2422	Ant1	36.444
NVNT	n40	2437	Ant1	36.444
NVNT	n40	2452	Ant1	36.563

OBW NVNT ax20 2412MHz Ant1



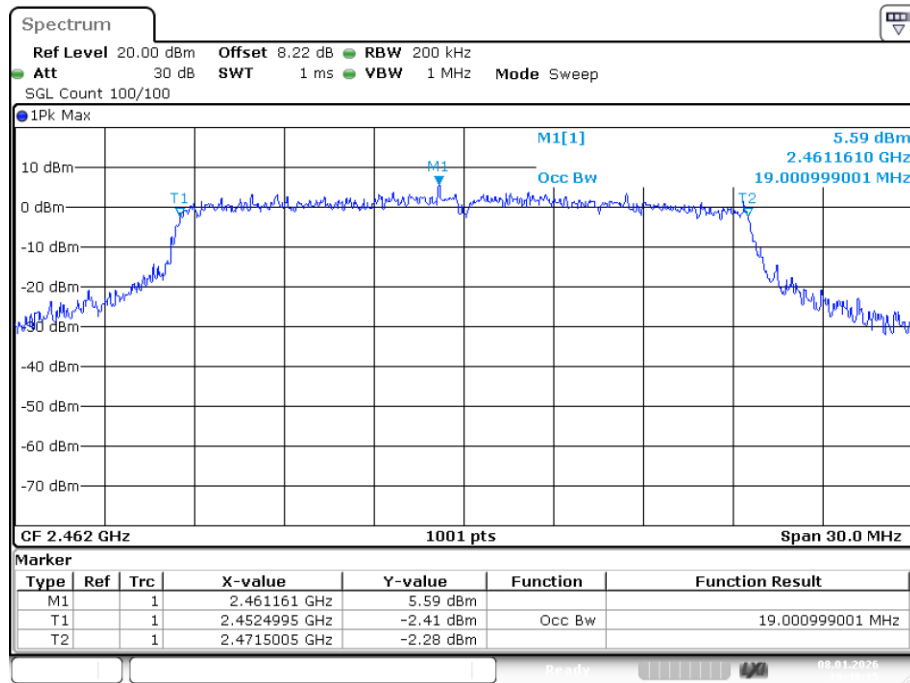
Date: 8.JAN.2026 19:41:10

OBW NVNT ax20 2437MHz Ant1



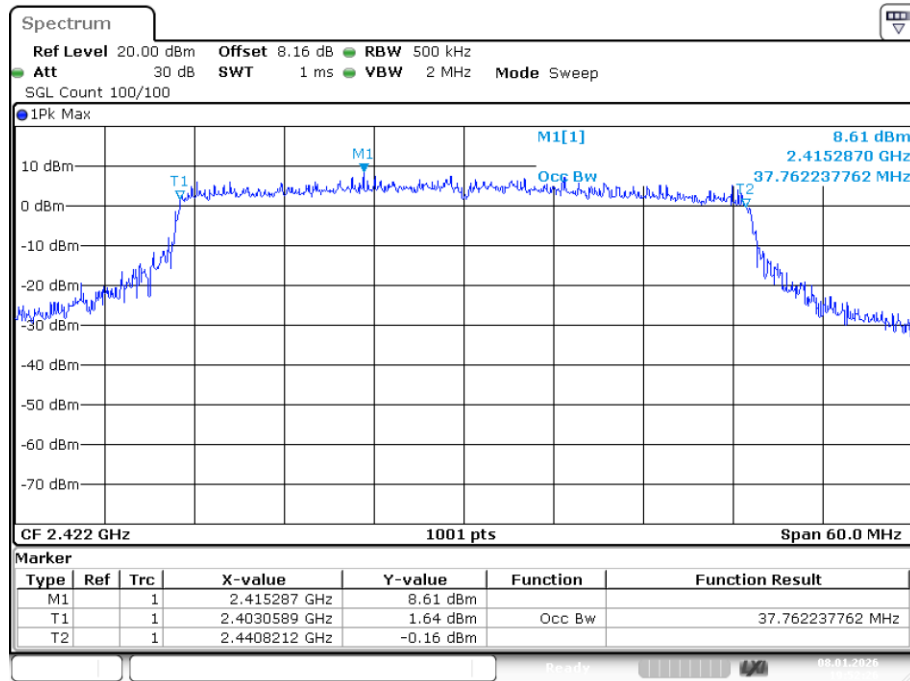
Date: 8.JAN.2026 19:43:33

OBW NVNT ax20 2462MHz Ant1



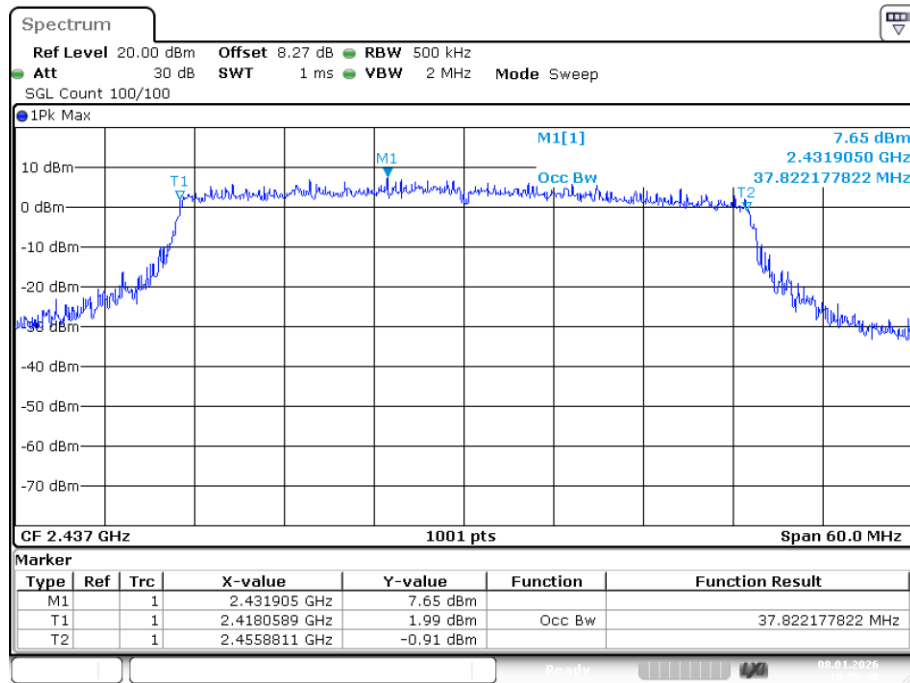
Date: 8.JAN.2026 19:49:15

OBW NVNT ax40 2422MHz Ant1



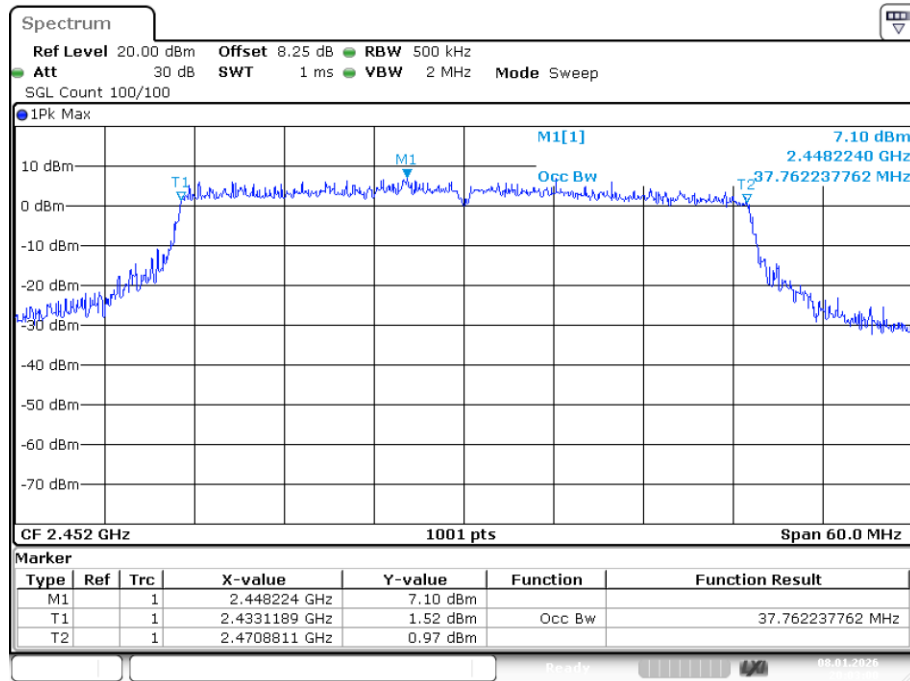
Date: 8.JAN.2026 19:52:25

OBW NVNT ax40 2437MHz Ant1



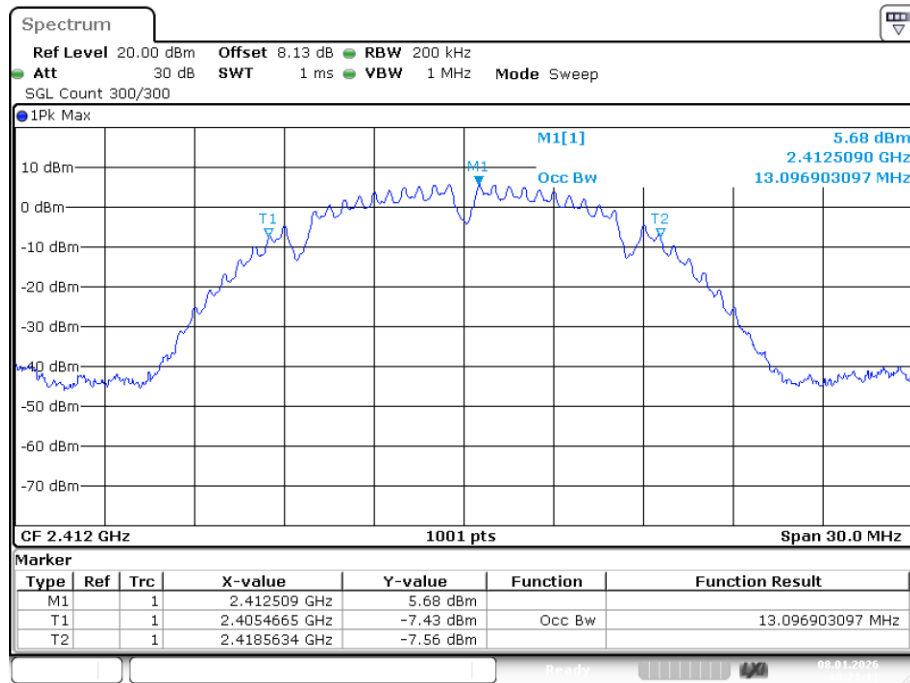
Date: 8.JAN.2026 19:59:48

OBW NVNT ax40 2452MHz Ant1



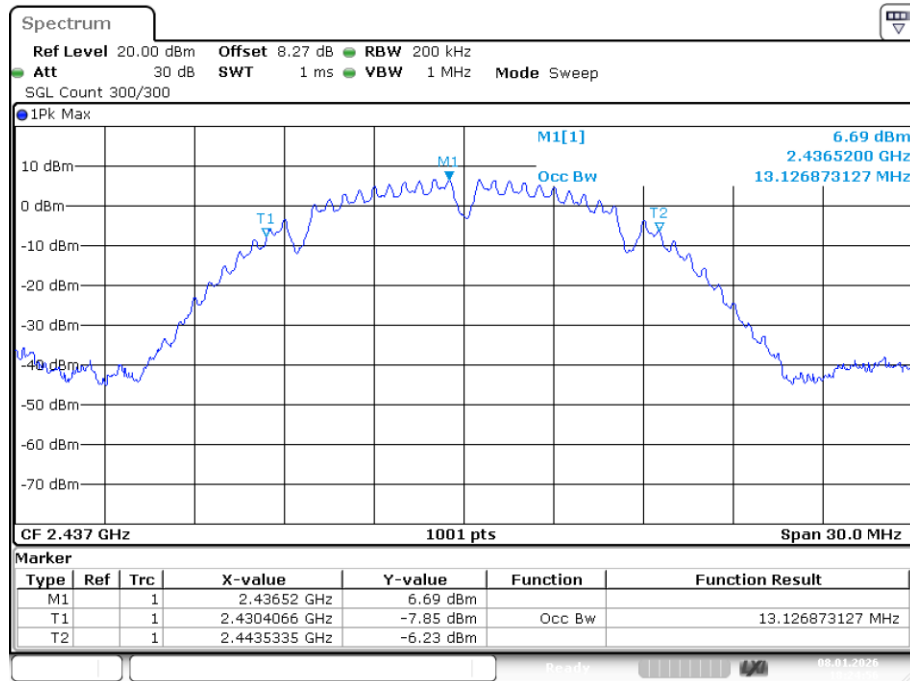
Date: 8.JAN.2026 20:03:00

OBW NVNT b 2412MHz Ant1



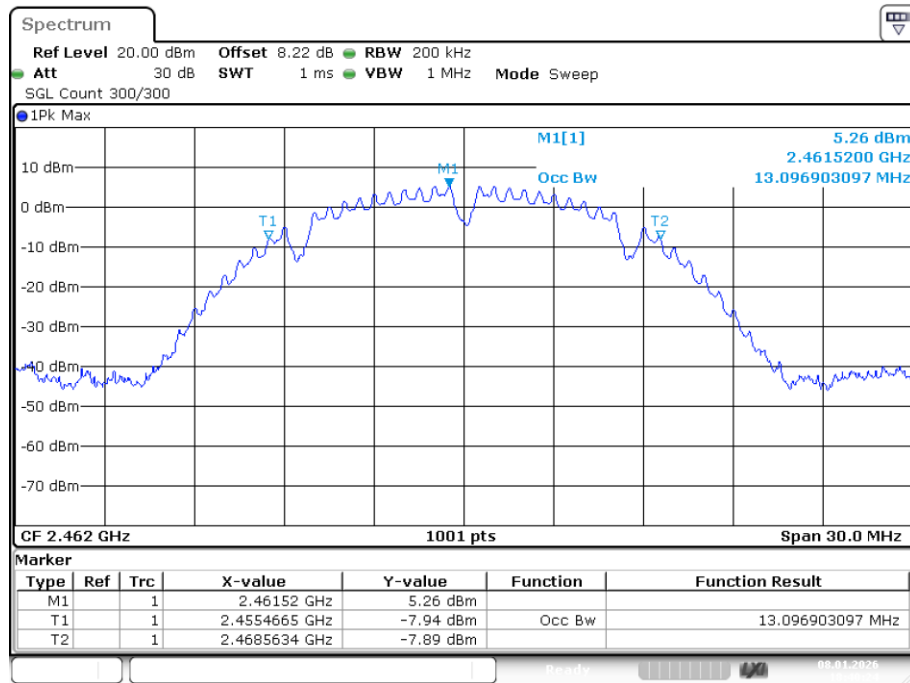
Date: 8.JAN.2026 18:21:11

OBW NVNT b 2437MHz Ant1



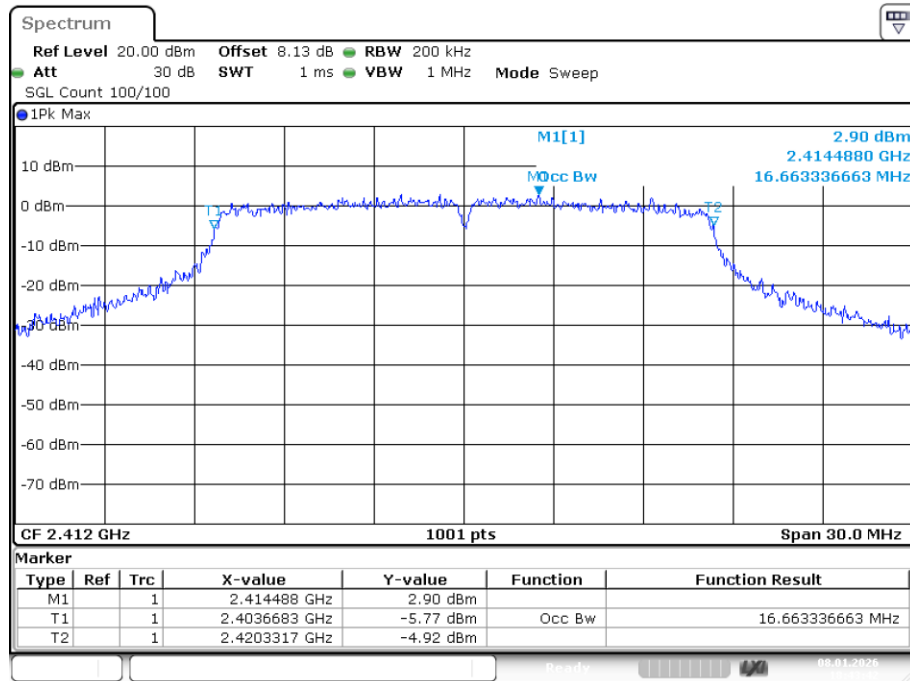
Date: 8.JAN.2026 18:24:55

OBW NVNT b 2462MHz Ant1



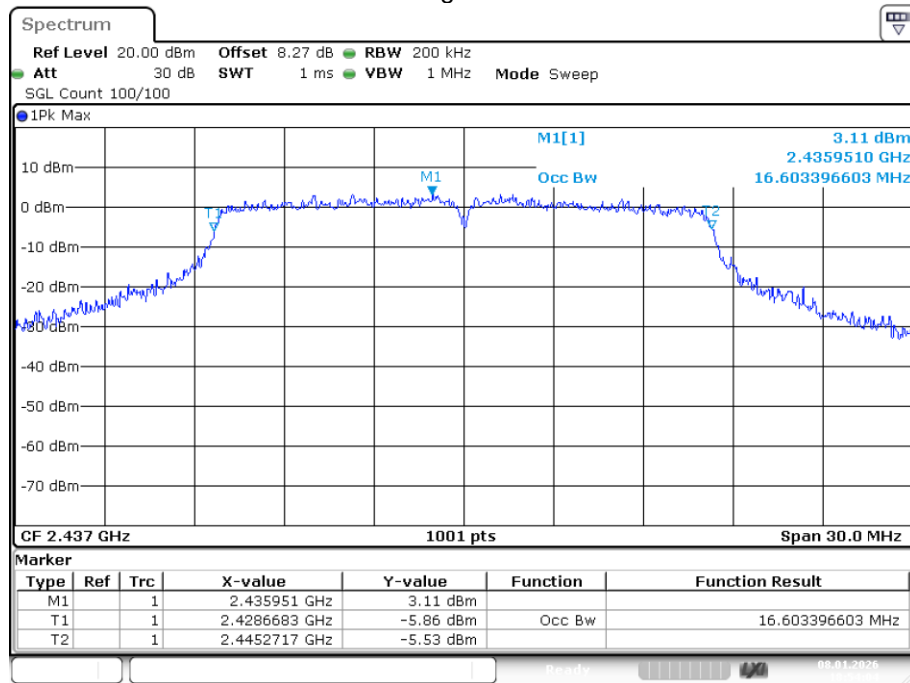
Date: 8.JAN.2026 18:40:24

OBW NVNT g 2412MHz Ant1



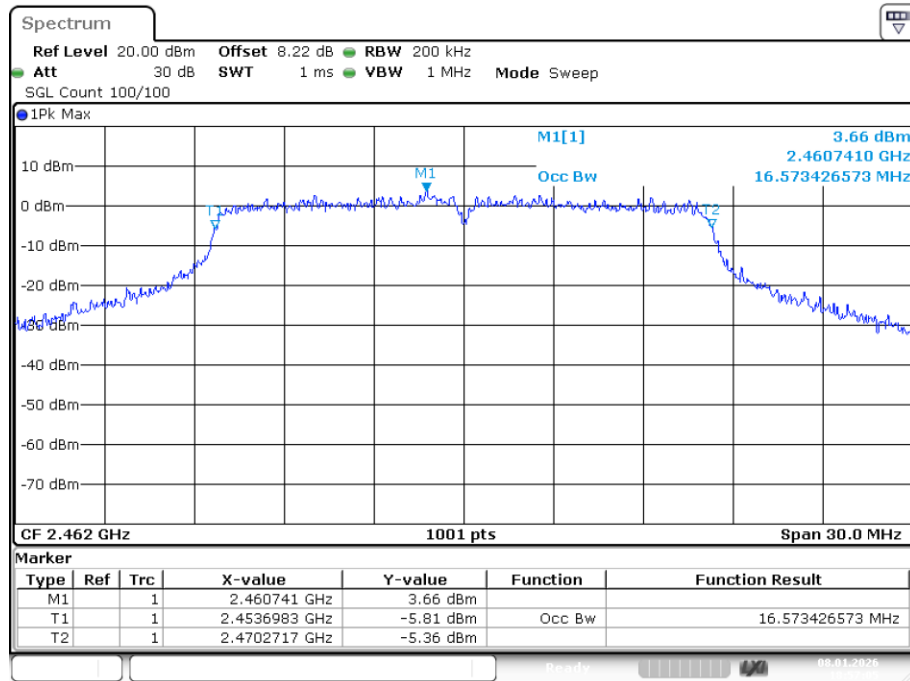
Date: 8.JAN.2026 18:43:42

OBW NVNT g 2437MHz Ant1



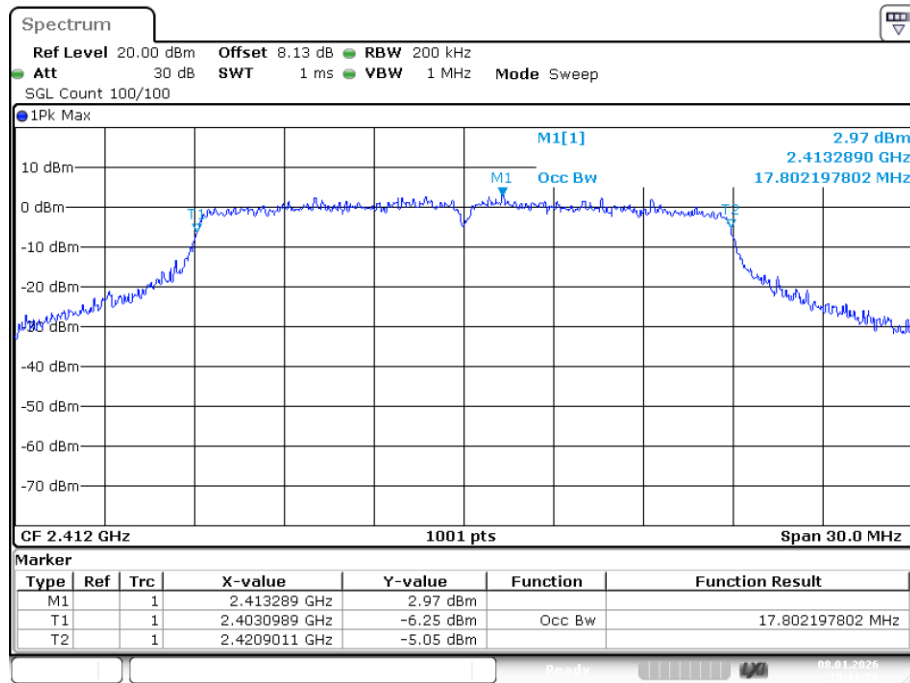
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OBW NVNT g 2462MHz Ant1



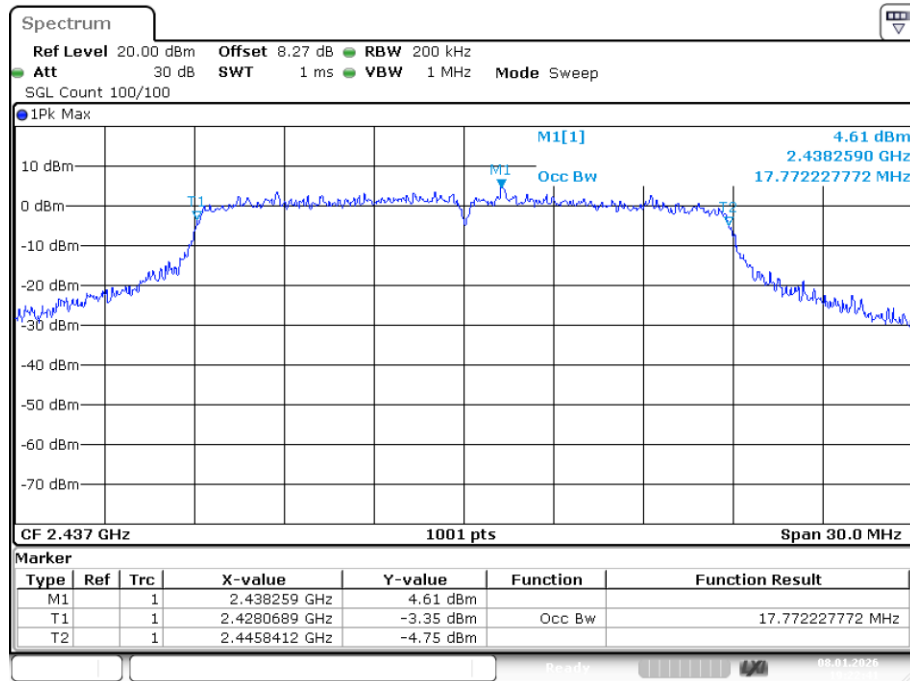
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OBW NVNT n20 2412MHz Ant1



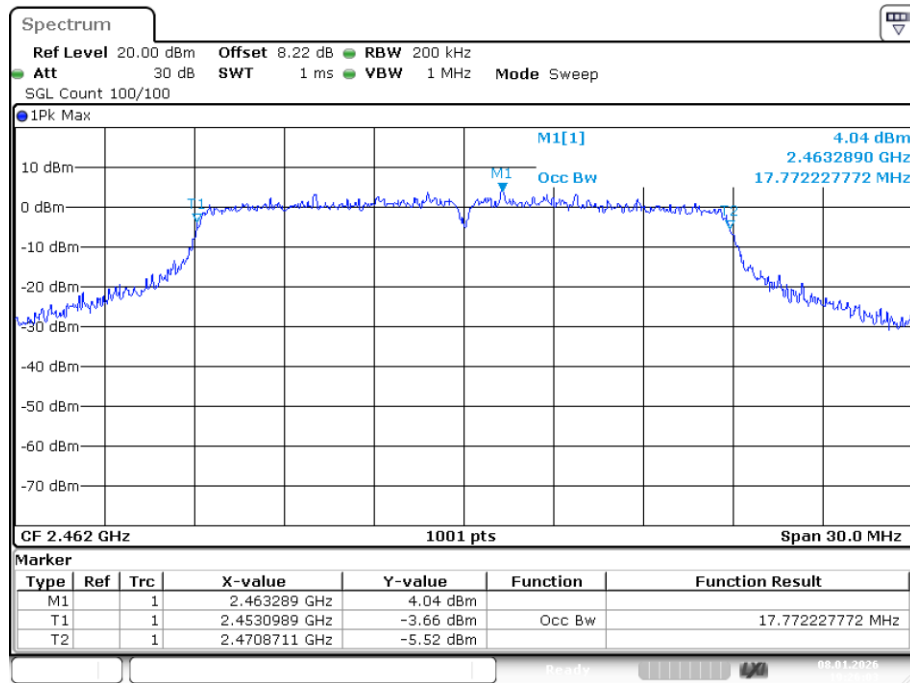
Date: 8.JAN.2026 19:11:27

OBW NVNT n20 2437MHz Ant1



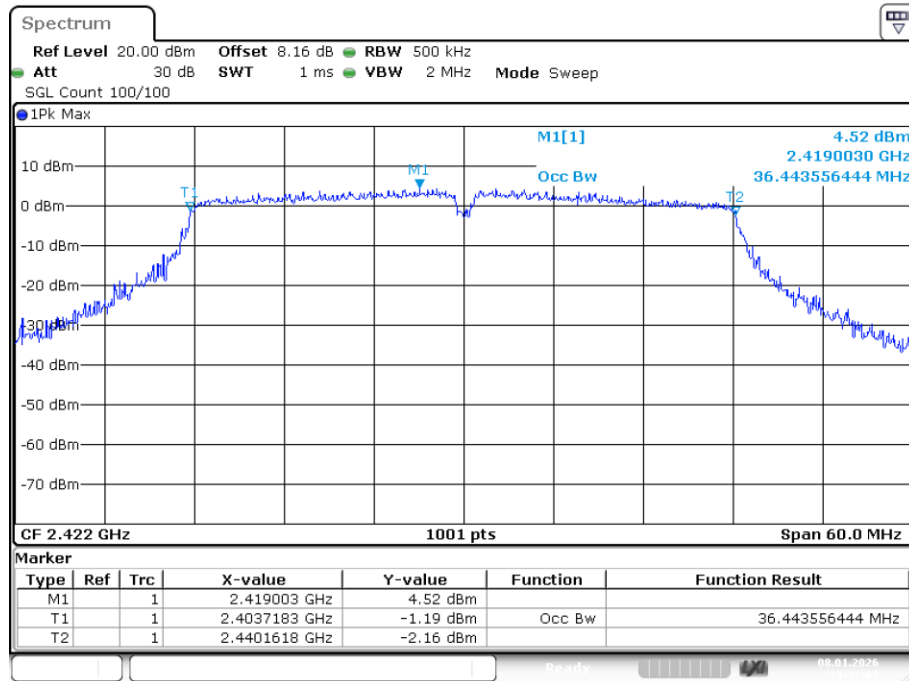
Date: 8.JAN.2026 19:22:40

OBW NVNT n20 2462MHz Ant1



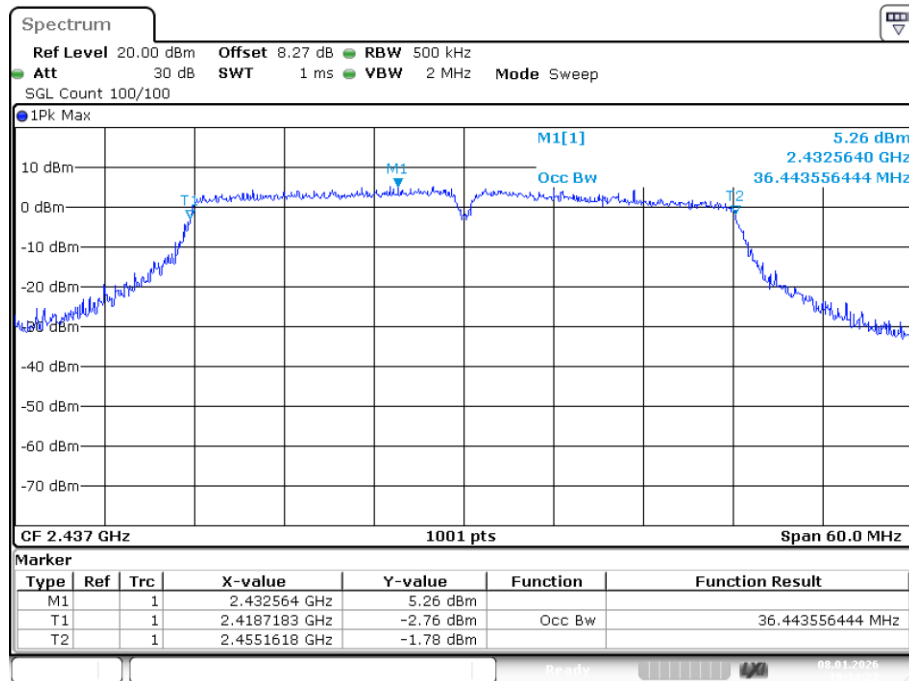
Date: 8.JAN.2026 19:26:03

OBW NVNT n40 2422MHz Ant1



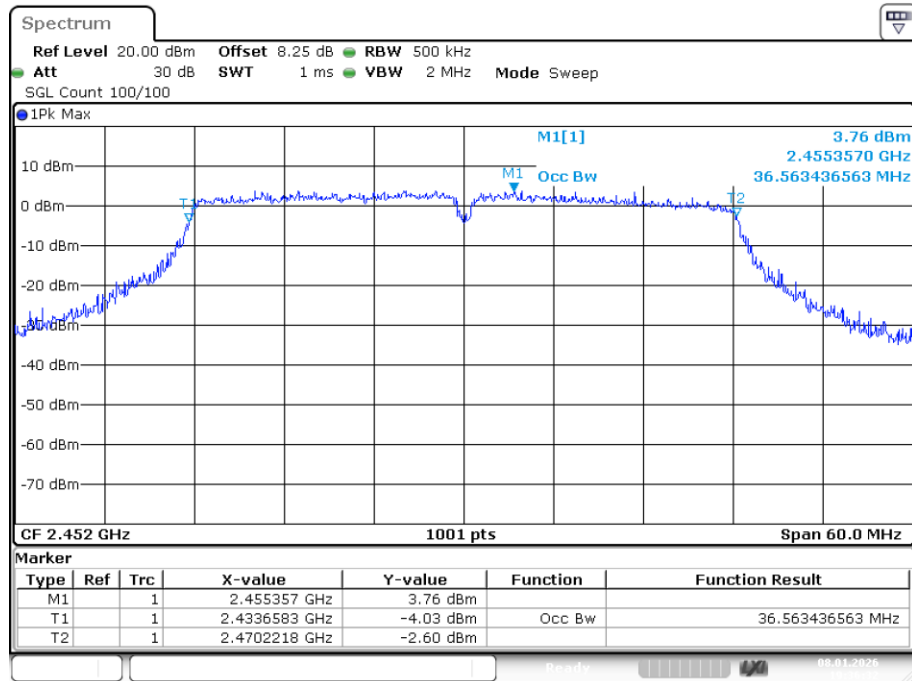
Date: 8.JAN.2026 19:32:07

OBW NVNT n40 2437MHz Ant1



Date: 8.JAN.2026 19:34:21

OBW NVNT n40 2452MHz Ant1



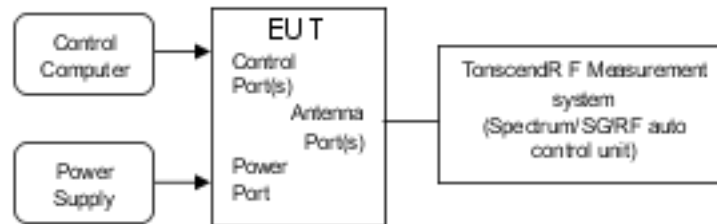
Date: 8.JAN.2026 19:36:32

10. BAND EDGE (CONDUCTED)

10.1. Test limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

10.2. Block diagram of test setup



10.3. Test Procedure

Details see the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

10.3.1. Place the EUT on the table and set it in transmitting mode.

10.3.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

10.3.3. Set center frequency of spectrum analyzer = operating frequency.

10.3.4. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz. The detector is set to Peak. The trace mode is max hold.

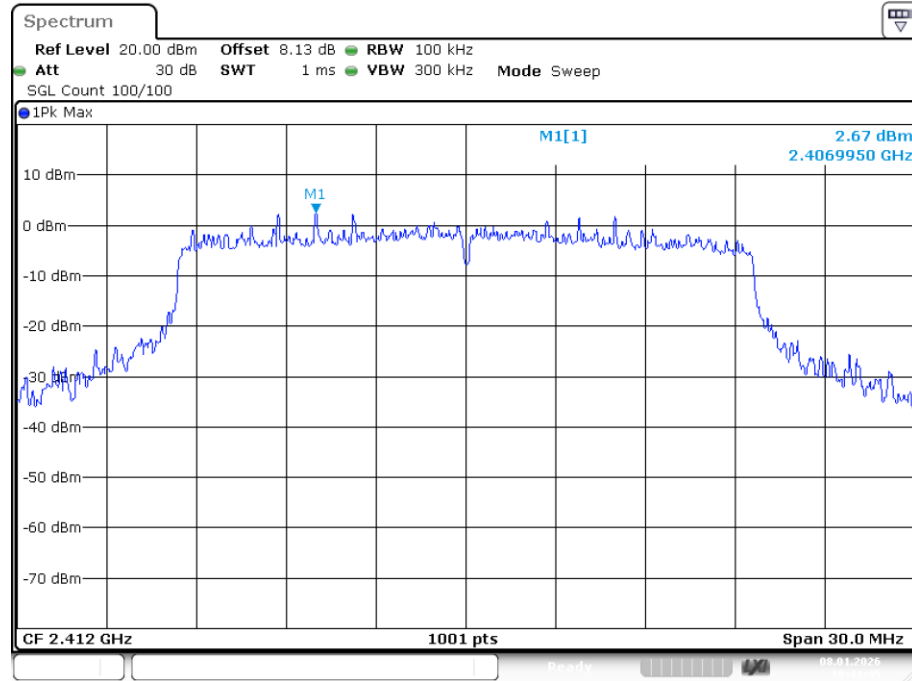
10.3.5. Repeat above procedures until all frequency measured were complete.

10.4. Test Results

PASS.

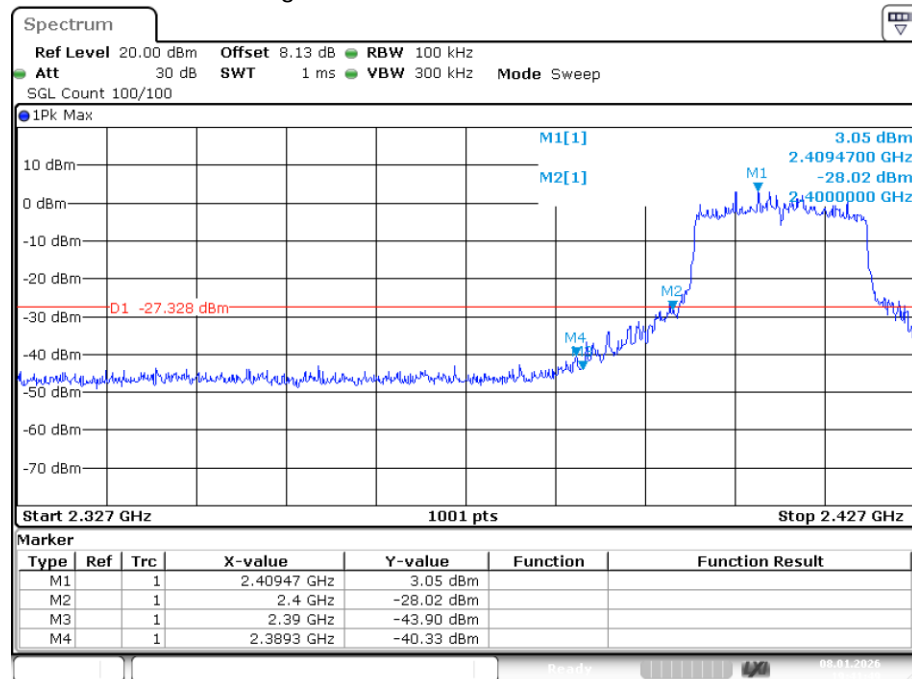
Detailed information please see the following page.

Band Edge NVNT ax20 2412MHz Ant1 Ref



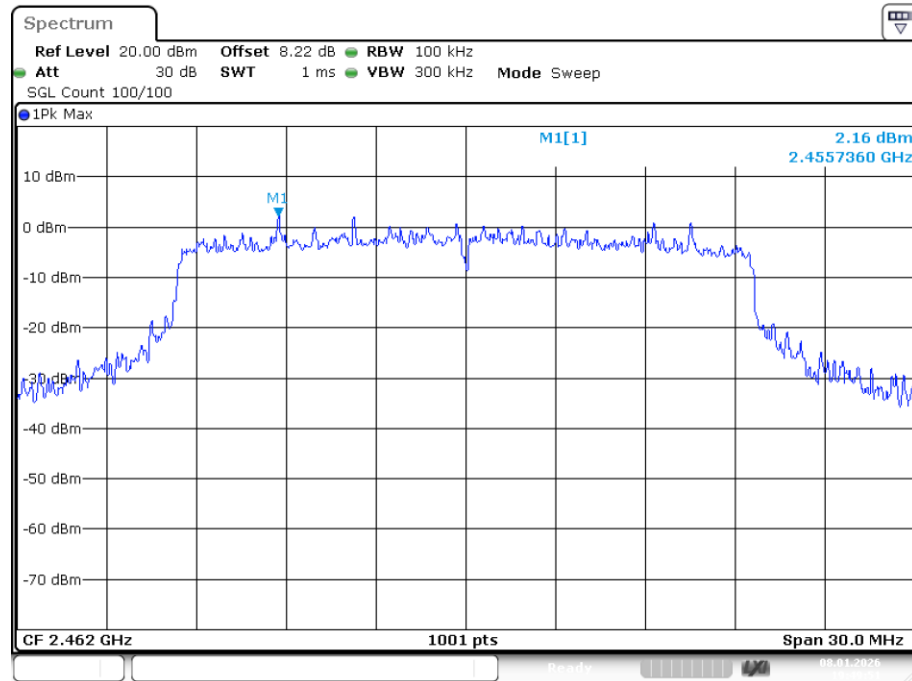
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Band Edge NVNT ax20 2412MHz Ant1 Emission



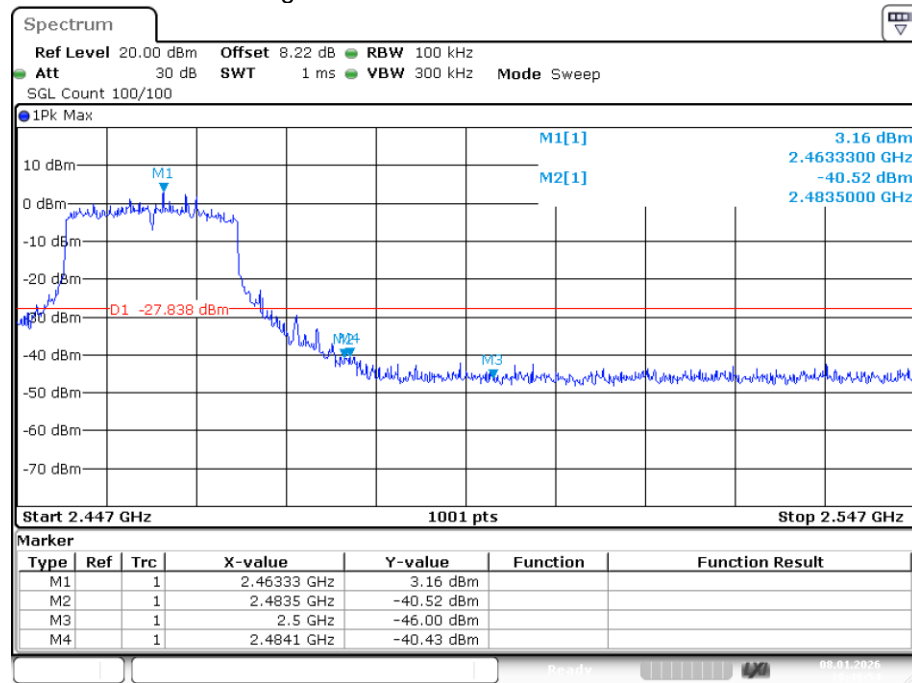
Date: 8.JAN.2026 19:41:49

Band Edge NVNT ax20 2462MHz Ant1 Ref



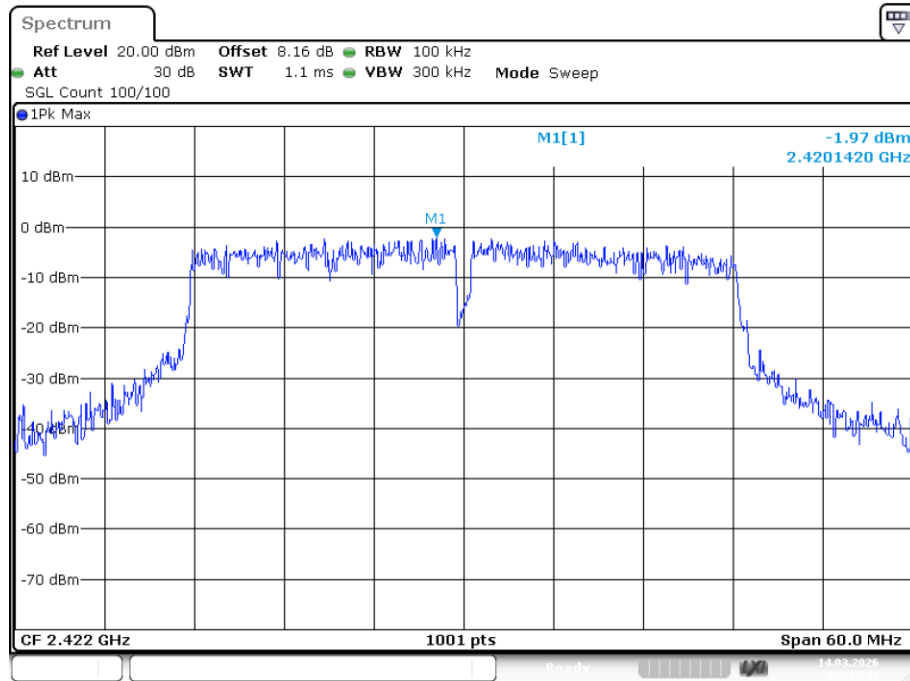
Date: 8.JAN.2026 19:49:51

Band Edge NVNT ax20 2462MHz Ant1 Emission



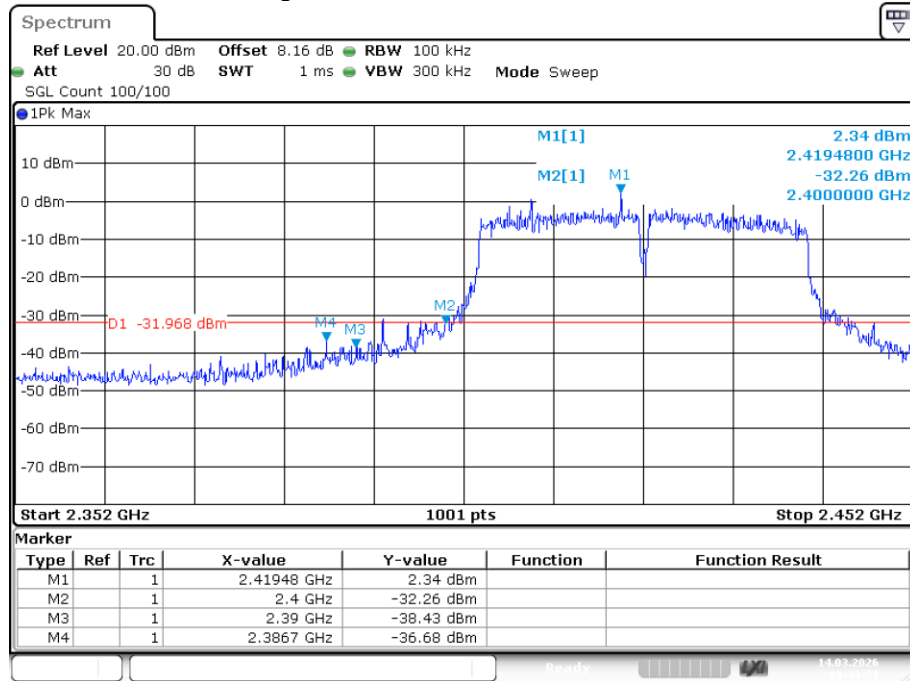
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Band Edge NVNT ax40 2422MHz Ant1 Ref



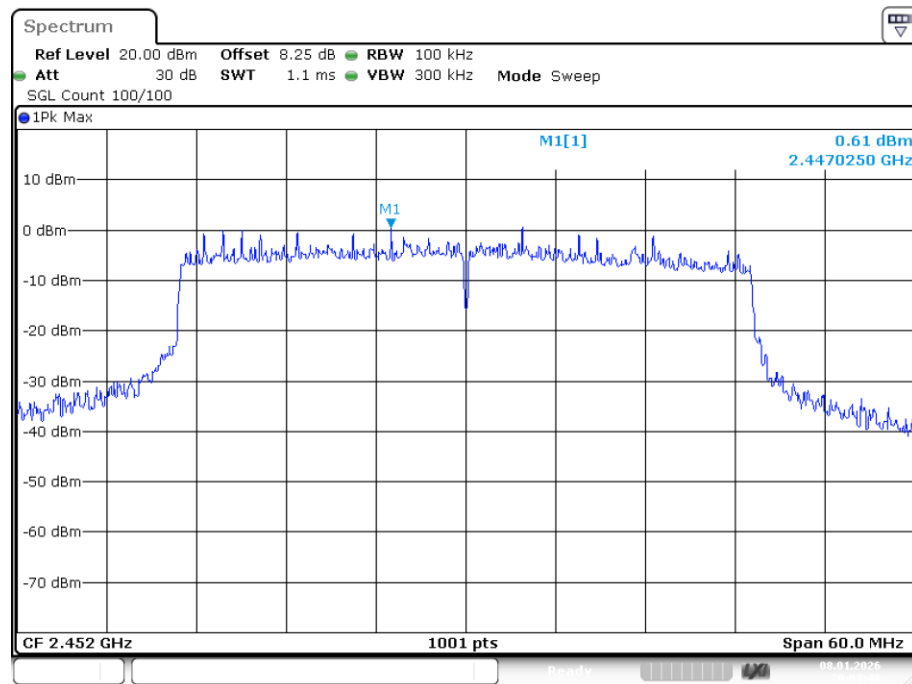
Date: 14.MAR.2026 09:49:47

Band Edge NVNT ax40 2422MHz Ant1 Emission



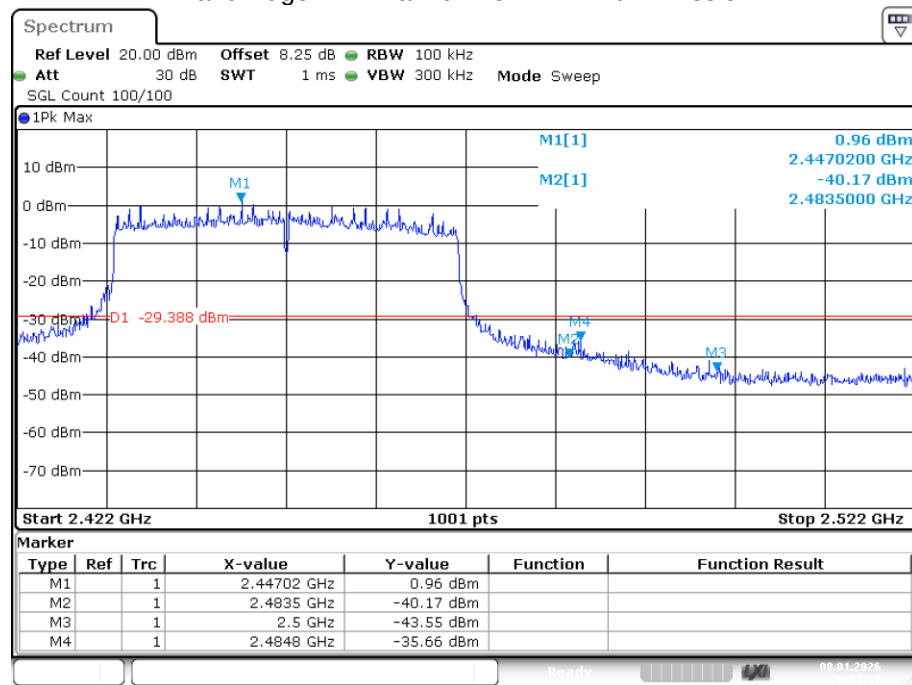
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Band Edge NVNT ax40 2452MHz Ant1 Ref



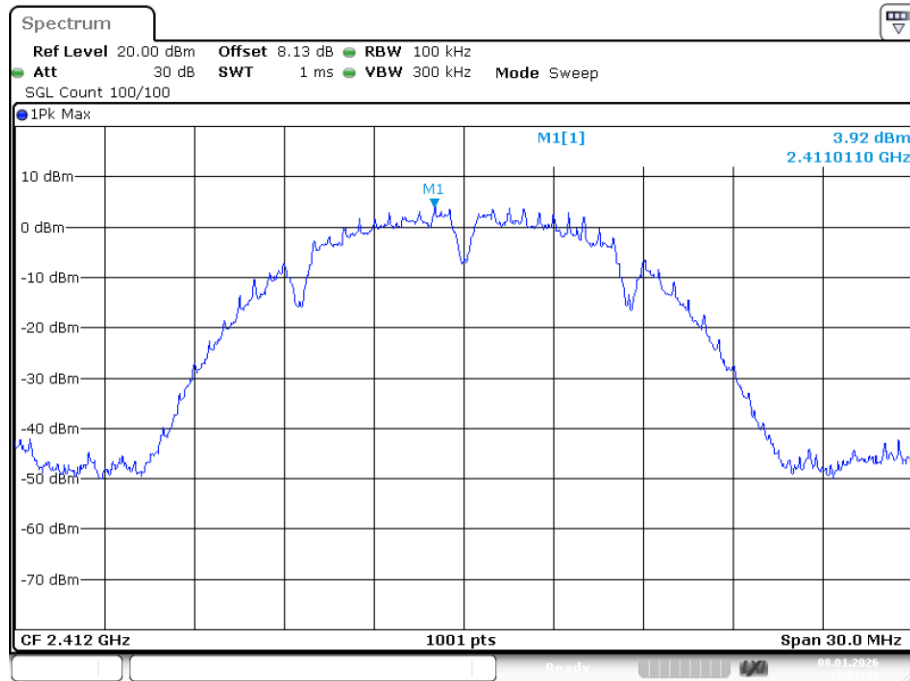
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Band Edge NVNT ax40 2452MHz Ant1 Emission

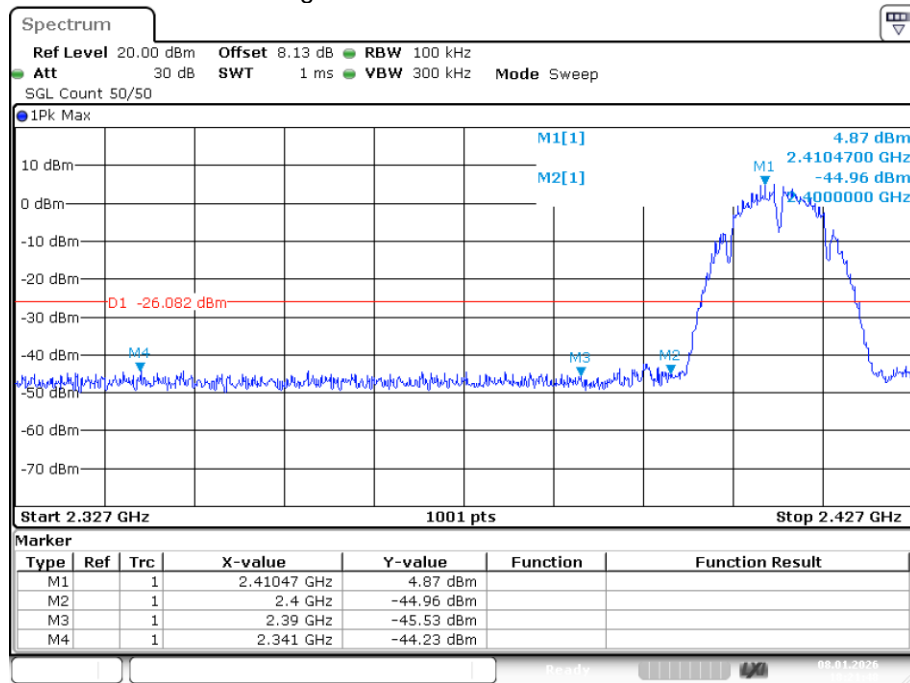


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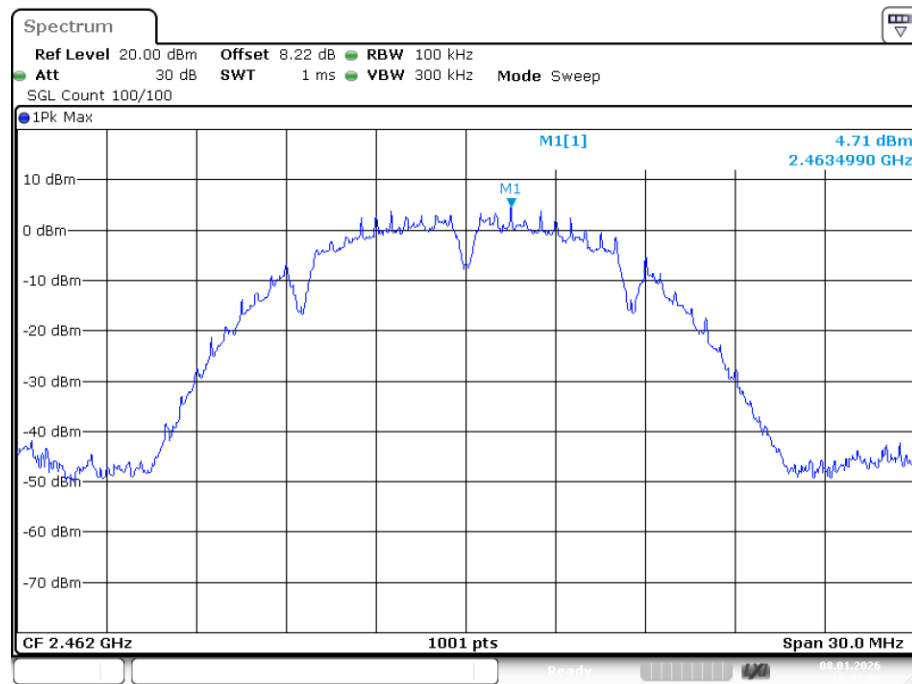
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

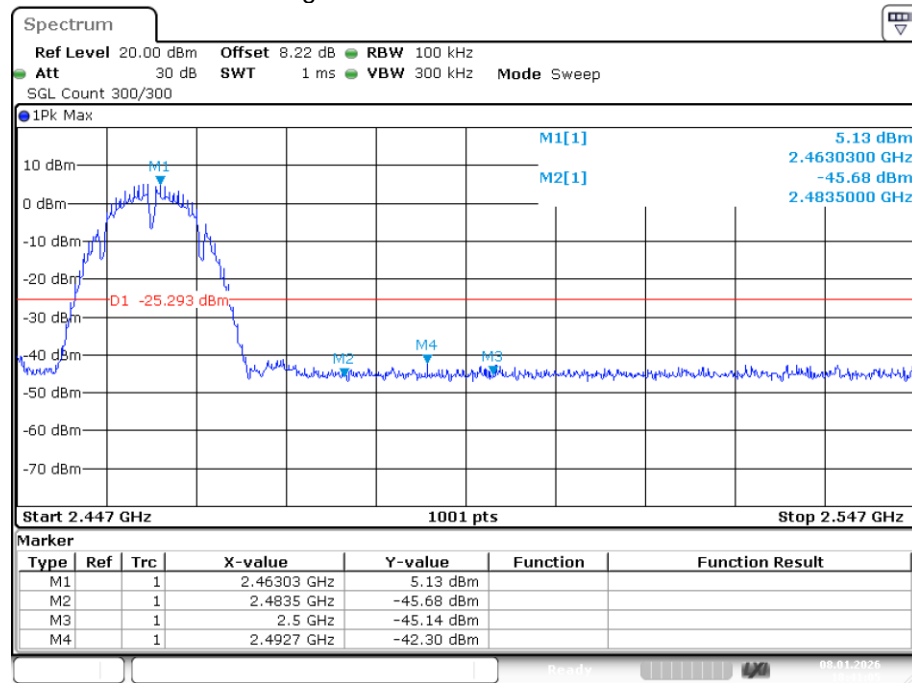


Band Edge NVNT b 2462MHz Ant1 Ref



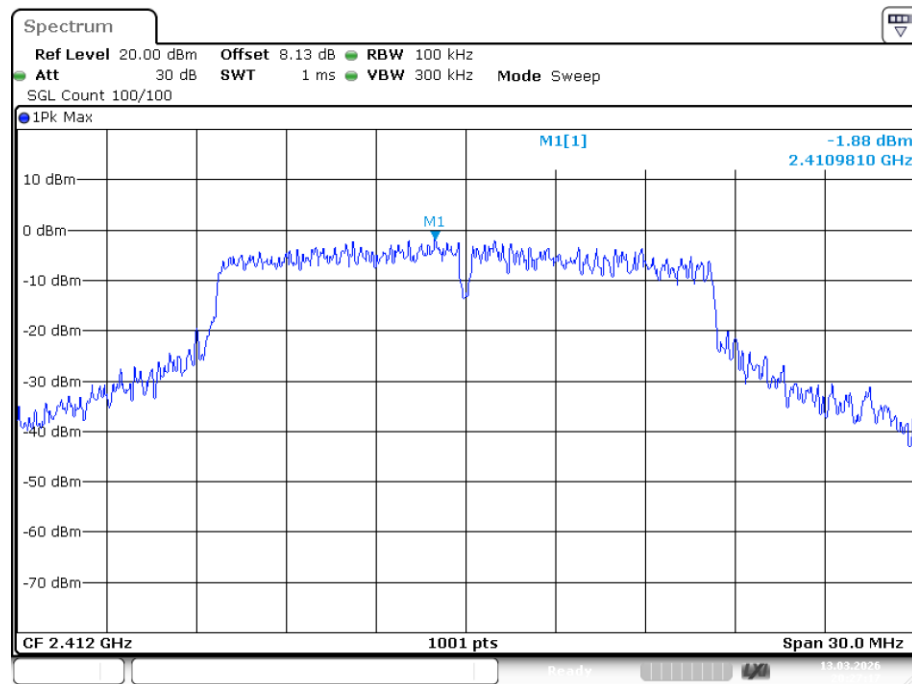
Date: 8.JAN.2026 18:40:59

Band Edge NVNT b 2462MHz Ant1 Emission



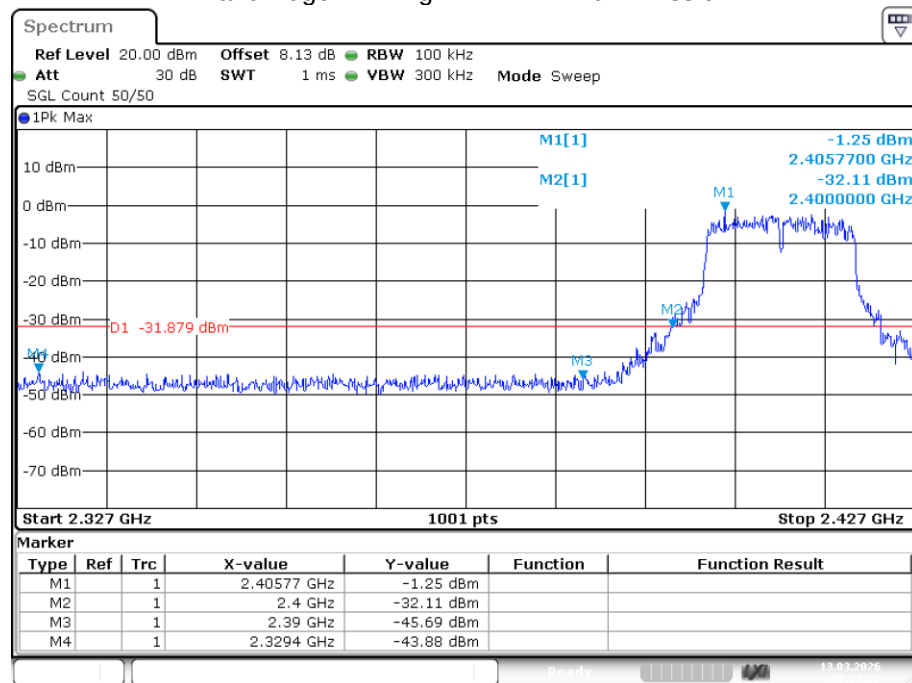
Date: 8.JAN.2026 18:41:04

Band Edge NVNT g 2412MHz Ant1 Ref



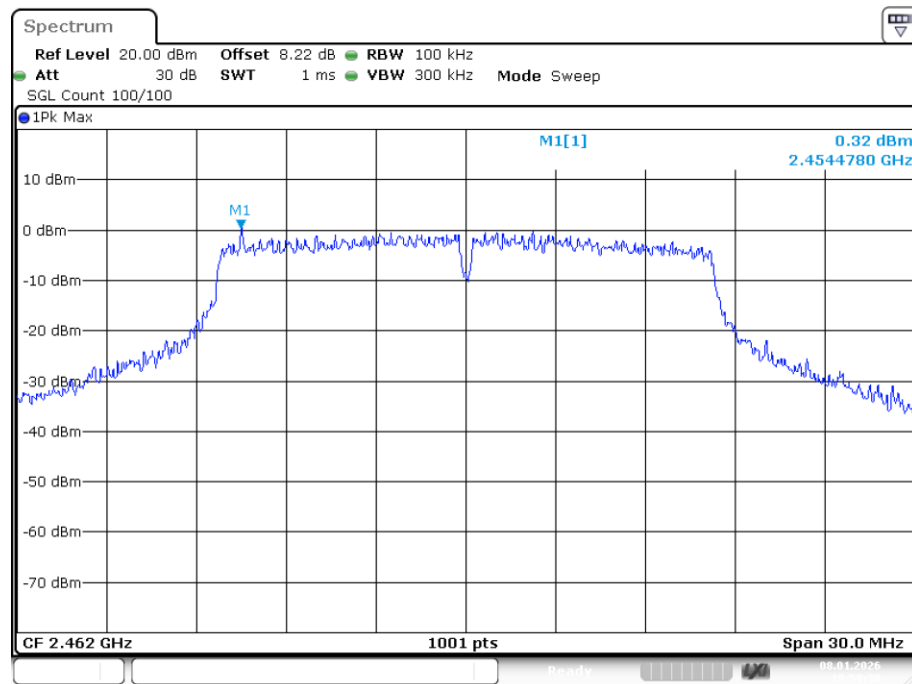
Date: 13.MAR.2026 20:27:18

Band Edge NVNT g 2412MHz Ant1 Emission



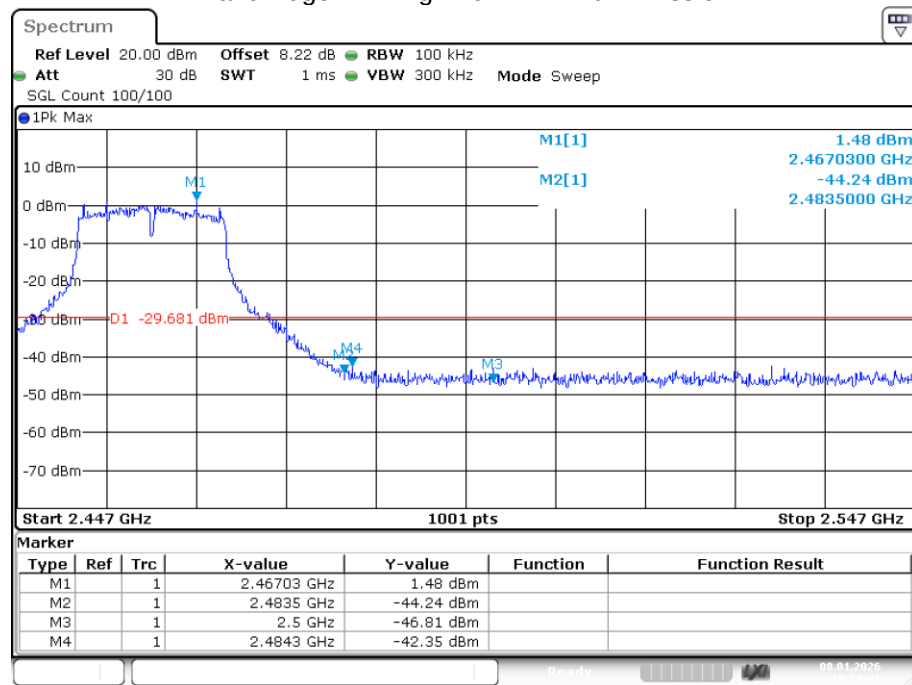
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Band Edge NVNT g 2462MHz Ant1 Ref



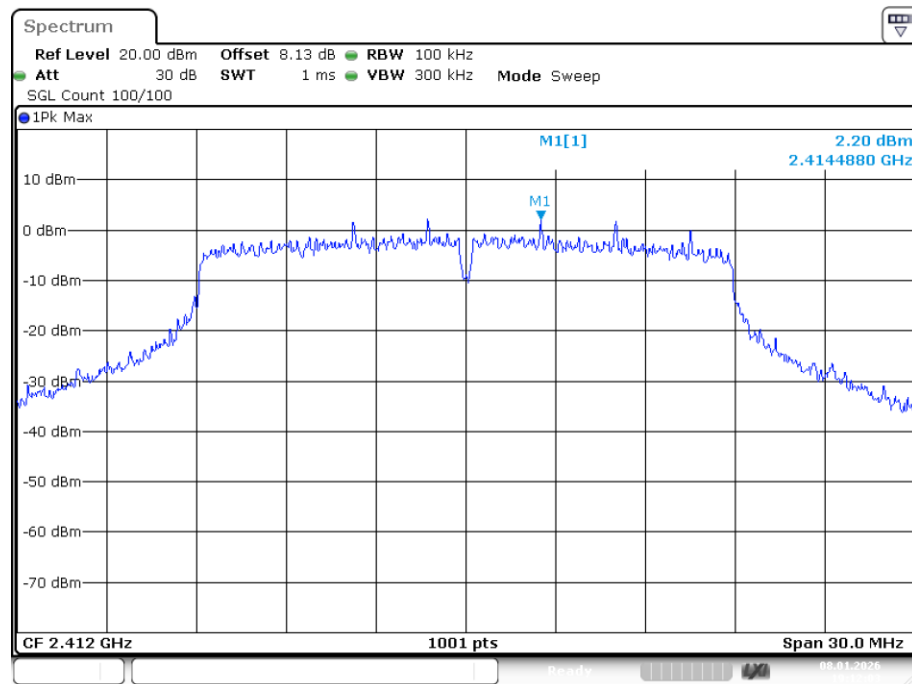
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Band Edge NVNT g 2462MHz Ant1 Emission



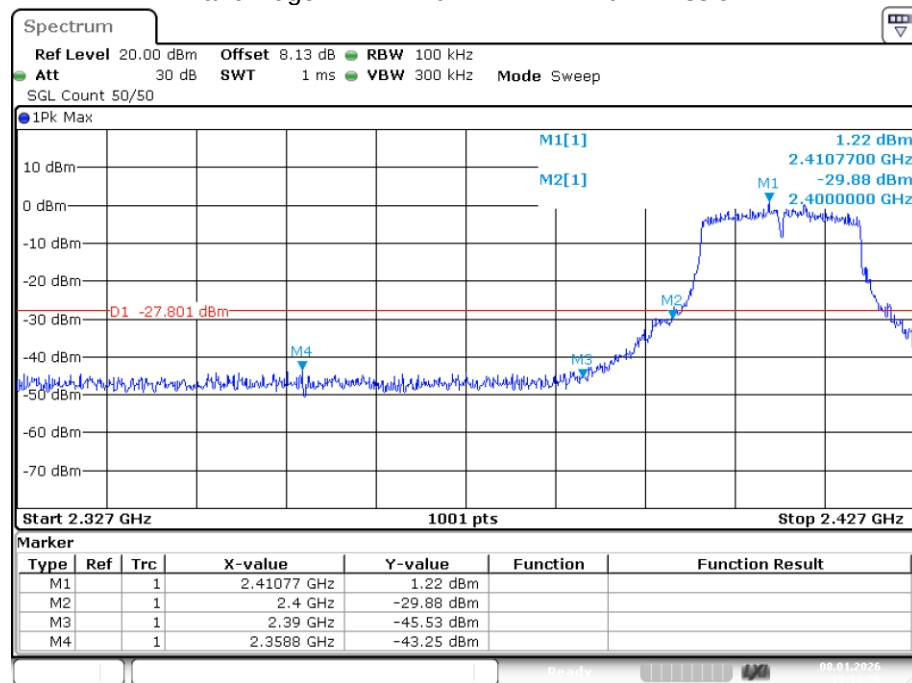
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Band Edge NVNT n20 2412MHz Ant1 Ref



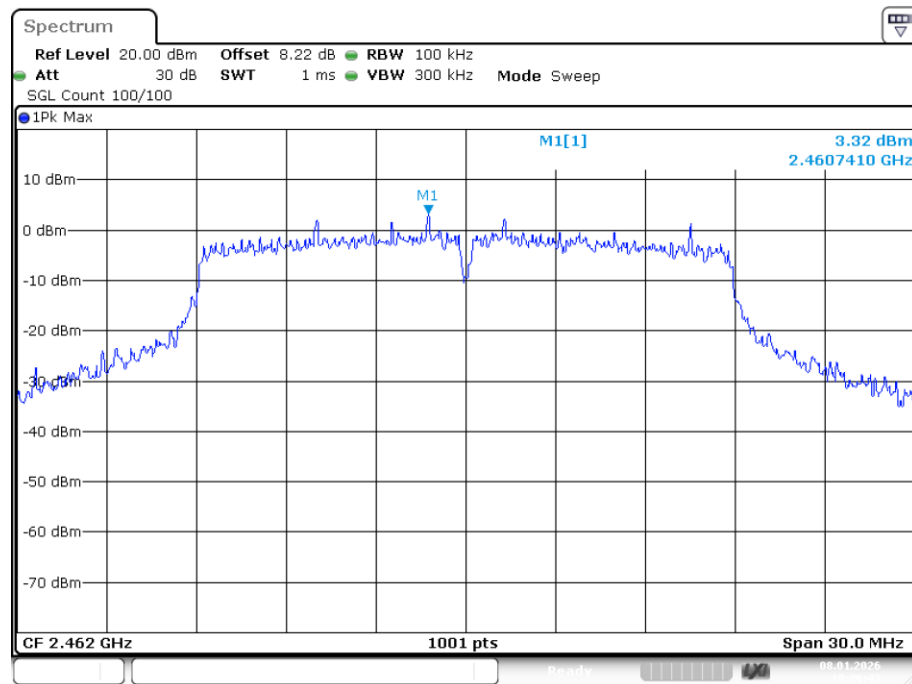
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Band Edge NVNT n20 2412MHz Ant1 Emission



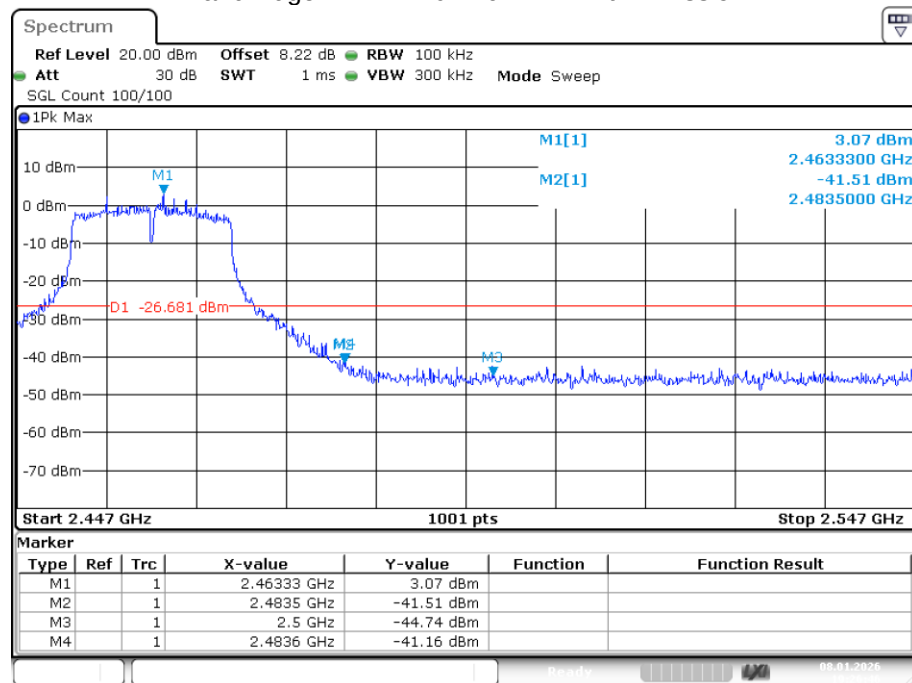
Date: 8.JAN.2026 19:12:06

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 8.JAN.2026 19:26:43

Band Edge NVNT n20 2462MHz Ant1 Emission



Date: 8.JAN.2026 19:26:46

Band Edge NVNT n40 2422MHz Ant1 Ref