



FCC PART 15.247 TEST REPORT

On Behalf of

Sanwa Electronic Instrument Co., Ltd

1-2-50, Yoshida Honmachi, Higashi-Osaka, Osaka 578-0982, Japan

FCC ID: L73-MT5Z

Model: MT-5Z

August 28, 2026

This Report Concerns: ☒ Original Report	Equipment Type: 2.4GHz Radio Control System
Test Engineer:	Fan Yang / <i>Fan Yang</i>
Report Number:	QCT26HR-1925E-01
Test Date:	August 14~26, 2026
Test Result:	Pass
Reviewed By:	Vincent Yang / <i>Vincent Yang</i>
Approved By:	Kendy Wang / <i>Kendy Wang</i>
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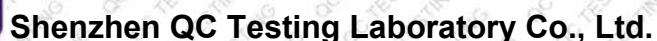


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Report Number

Description

Issued Date

QCT26HR-1925E-01

Initial Issue

2026-08-20



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Description:	2.4GHz Radio Control System
Model No.:	MT-5Z
Tested Model:	MT-5Z
Sample(s) Status:	Engineer sample
Operation Frequency:	1) 2404-2470 MHz 2) 2405-2471 MHz 3) 2412-2478 MHz 4) 2413-2479 MHz 5) 2401-2467 MHz
Channel numbers:	34
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Integrated Antenna
Antenna gain*1:	2.86dBi
Power supply:	4.5V DC (Powered by 3*1.5V AAA battery)
Software version:	SP-151 Ver.0.00.15
Hardware version:	311A21091A
Trade Mark:	SANWA
Applicant:	Sanwa Electronic Instrument Co., Ltd
Address:	1-2-50, Yoshida Honmachi, Higashi-Osaka, Osaka 578-0982, Japan
Manufacturer:	Dongguan Fountain Electronics
Address:	Qiaolian Industrial District, Erhuan St, Dongkeng Town, Dongguan City, Guangdong, P.R. China
Sample No.:	Y26H1925E01WD

Note: *1This information provided by Manufacturer, SZ QC Lab is not responsible for the accuracy of this information.

1.2 System Test Configuration

1.2.1 Channel List

2404-2470MHz:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2404	10CH	2422	19CH	2440	28CH	2458
2CH	2406	11CH	2424	20CH	2442	29CH	2460
3CH	2408	12CH	2426	21CH	2444	30CH	2462
4CH	2410	13CH	2428	22CH	2446	31CH	2464
5CH	2412	14CH	2430	23CH	2448	32CH	2466
6CH	2414	15CH	2432	24CH	2450	33CH	2468
7CH	2416	16CH	2434	25CH	2452	34CH	2470
8CH	2418	17CH	2436	26CH	2454		
9CH	2420	18CH	2438	27CH	2456		

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	Channel	Frequency
The lowest channel	2404MHz	The Highest channel	2470MHz
The middle channel	2436MHz		

2405-2471MHz:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2405	10CH	2423	19CH	2441	28CH	2459
2CH	2407	11CH	2425	20CH	2443	29CH	2461
3CH	2409	12CH	2427	21CH	2445	30CH	2463
4CH	2411	13CH	2429	22CH	2447	31CH	2465
5CH	2413	14CH	2431	23CH	2449	32CH	2467
6CH	2415	15CH	2433	24CH	2451	33CH	2469
7CH	2417	16CH	2435	25CH	2453	34CH	2471
8CH	2419	17CH	2437	26CH	2455		
9CH	2421	18CH	2439	27CH	2457		

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	Channel	Frequency
The lowest channel	2405MHz	The Highest channel	2471MHz
The middle channel	2437MHz		



2412-2478MHz:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2412	10CH	2430	19CH	2448	28CH	2466
2CH	2414	11CH	2432	20CH	2450	29CH	2468
3CH	2416	12CH	2434	21CH	2452	30CH	2470
4CH	2418	13CH	2436	22CH	2454	31CH	2472
5CH	2420	14CH	2438	23CH	2456	32CH	2474
6CH	2422	15CH	2440	24CH	2458	33CH	2476
7CH	2424	16CH	2442	25CH	2460	34CH	2478
8CH	2426	17CH	2444	26CH	2462		
9CH	2428	18CH	2446	27CH	2464		

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	Channel	Frequency
The lowest channel	2412MHz	The Highest channel	2478MHz
The middle channel	2444MHz		

2413-2479MHz:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2413	10CH	2431	19CH	2449	28CH	2467
2CH	2415	11CH	2433	20CH	2451	29CH	2469
3CH	2417	12CH	2435	21CH	2453	30CH	2471
4CH	2419	13CH	2437	22CH	2455	31CH	2473
5CH	2421	14CH	2439	23CH	2457	32CH	2475
6CH	2423	15CH	2441	24CH	2459	33CH	2477
7CH	2425	16CH	2443	25CH	2461	34CH	2479
8CH	2427	17CH	2445	26CH	2463		
9CH	2429	18CH	2447	27CH	2465		

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	Channel	Frequency
The lowest channel	2413MHz	The Highest channel	2471MHz
The middle channel	2445MHz		



2401-2467MHz:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1CH	2401	10CH	2419	19CH	2437	28CH	2455
2CH	2403	11CH	2421	20CH	2439	29CH	2457
3CH	2405	12CH	2423	21CH	2441	30CH	2459
4CH	2407	13CH	2425	22CH	2443	31CH	2461
5CH	2409	14CH	2427	23CH	2445	32CH	2463
6CH	2411	15CH	2429	24CH	2447	33CH	2465
7CH	2413	16CH	2431	25CH	2449	34CH	2467
8CH	2415	17CH	2433	26CH	2451		
9CH	2417	18CH	2435	27CH	2453		

Note: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency	Channel	Frequency
The lowest channel	2401MHz	The Highest channel	2467MHz
The middle channel	2433MHz		

1.2.2 EUT Exercise Software

" SVC mode " was used to test, The power level is default. The mode and power level was provided by the applicant.

1.2.3 Support Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.4 Test mode and test voltage

Transmitting mode: Keep the EUT in continuously transmitting.

Test voltage: 4.5 DC



1.3 Test Facility

Test Firm : Shenzhen QC Testing Laboratory Co., Ltd.

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS – Registration No.: L8464

The EMC Laboratory has been accredited by CNAS, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

A2LA Certificate Number: 6759.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 561109

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 29628

CAB identifier: CN0141

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

1.4 Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	3.43%
RF output power, conducted	0.63dB
Power Spectral Density, conducted	0.69dB
Unwanted Emissions, conducted	0.90dB
AC Power Line Conducted Emission	2.70dB
Radiated Spurious Emission test (9kHz-30MHz)	2.68dB
Radiated Spurious Emission test (30MHz-1000MHz)	3.94dB
Radiated Spurious Emission test (1000MHz-18000MHz)	4.70dB
Radiated Spurious Emission test (18GHz-40GHz)	4.80dB
Temperature	0.375°C
Humidity	1.2679%
DC and low frequency voltages	0.18%
Time	0.133%
Duty cycle	0.133%

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2



2. Summary of Test Results

Test Item	Section	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (b)(1)	Pass
Dwell Time	15.247 (a)(1)(iii)	Pass
Radiated Emission	15.205/15.209	Pass
Conducted Spurious and Band edge Emission	15.247(d)	Pass

Note: 1. "N/A" means "not applicable".

2. Test according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
3. In the configuration tested, the EUT complied with the standards specified above.
4. All indications of Pass/Fail in this report are opinions expressed by Shenzhen QC Testing Laboratory Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.
5. The EUT is powered by the battery, and Conduction Emission is not applicable.



3. List of Test and Measurement Instruments

3.1 Radiated Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESIB 7	2277573376	2026.03.12	2027.03.11
2	EMI Test Receiver	ESPI3	ESPI3	101131	2026.03.12	2027.03.11
3	Spectrum Analyzer	Rohde&Schwarz	FSV 40	101458	2026.03.13	2027.03.12
4	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9168	VULB9168-588	2026.03.14	2028.03.13
5	Loop Antenna	EMCO	6502	2133	2026.03.14	2028.03.13
6	horn antenna	SCHWARZBECK	BBHA9120D	2069	2026.03.14	2028.03.13
7	Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2025.08.19	2027.08.18
8	Pre-amplifier	MITEQ	TTA0001-18	2063645	2026.03.12	2027.03.11
9	Pre-amplifier	MITEQ	TTA1800-30-HG	2063644	2026.03.12	2027.03.11
10	Pre-amplifier	COM-MW	DLAN-18000-40000-02	10229104	2026.03.12	2027.03.11
11	966 Camber	ZhongYU	9*6*6	/	2025.08.12	2028.08.11
12	Test Software	Farad	EZ-EMC Ver QCT03A2 RE+	N/A	N/A	N/A

3.2 RF Conducted test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1.	Wideband Radio Communication Tester	Rohde & Schwarz	CW500	151583	2026.03.12	2027.03.11
2.	Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40	101458	2026.03.13	2027.03.12
3.	Signal Generator	Agilent	N5182A	MY50141563	2026.03.12	2027.03.11
4.	RF Automatic Test System	MW	MW100-RFCB/MW100-PSB	MW2007004	2026.03.13	2027.03.12

RF Conducted Measurement Software: MTS 8310 Ver 2.0.0.0



4. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 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, 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna: The Ant is Integrated Antenna, the best case gain of the antenna is 2.86dBi, reference to the Internal photo for details.

5. Conducted Emissions

5.1 Applicable Standard

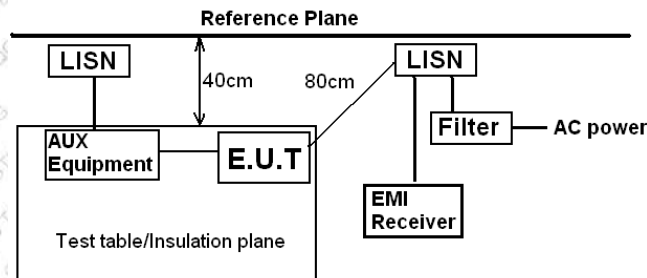
FCC Part15 C Section 15.207

5.2 Limit

Frequency range (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note *: The level decreases linearly with the logarithm of the frequency.

5.3 Test setup



Remark:
E.U.T: Equipment Under Test
LISN: Line Impedance Stabilization Network
Test table height=0.8m

5.4 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.
RBW=9 kHz, VBW=30 kHz, Sweep time=auto

5.5 Test procedure

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 on conducted measurement.

5.6 Test Data

Not applicable.

The EUT is powered by the battery, and Conduction Emission is not applicable.

6. Conducted Peak Output Power

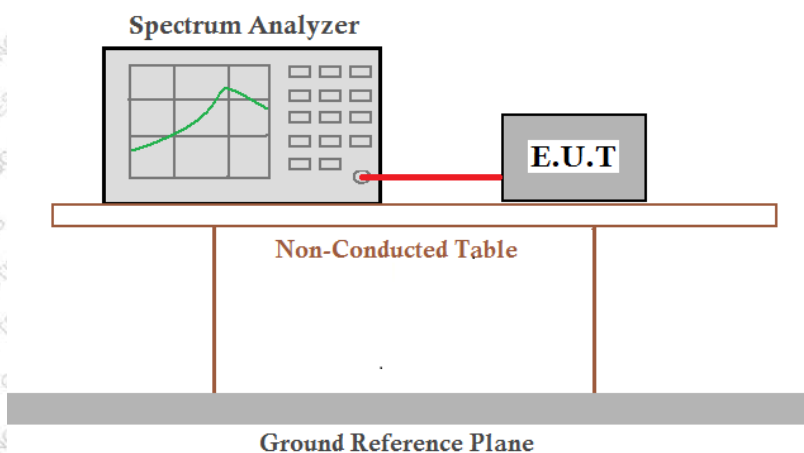
6.1. Applicable Standard

FCC Part15 C Section 15.247 (a)(1)

6.2. Limit

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

6.3. Test setup



6.4. Test Procedure

The following procedure shall be used when an Instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW $\geq$ 20dB Emission Bandwidth.
- Set VBW $\geq$ [3*RBW].
- Set span $\geq$ [3*RBW].
- Sweep time= auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

6.5. Test Data

Temperature	26.5°C	Humidity	43%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.

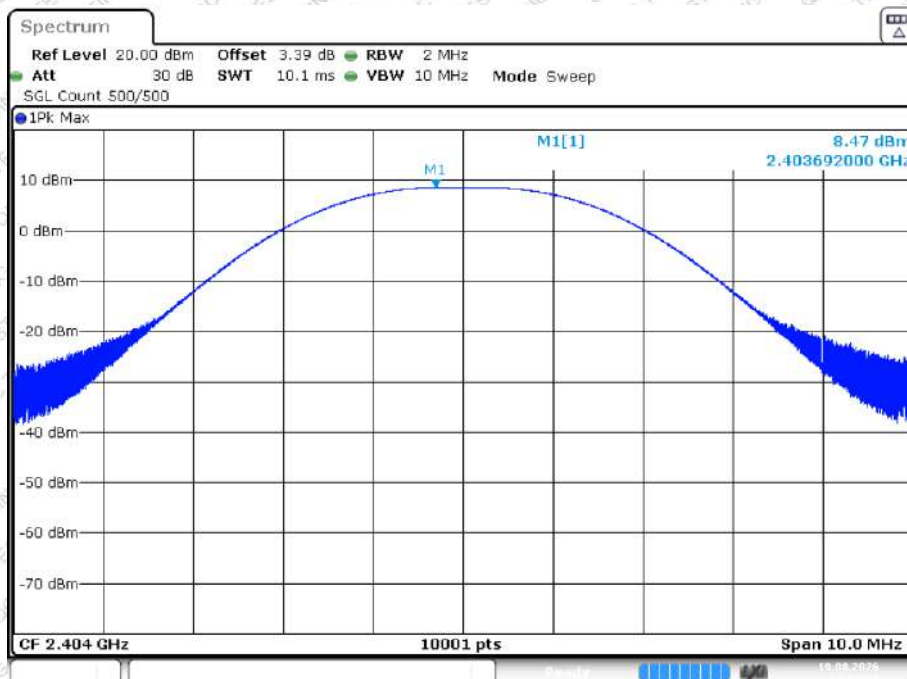


Output Power:

Mode	Frequency band (MHz)	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	2404-2470	Lowest	8.47	20.97	Pass
		Middle	8.03		
		Highest	7.38		
GFSK	2405-2471	Lowest	8.5	20.97	Pass
		Middle	8.05		
		Highest	7.37		
GFSK	2412-2478	Lowest	8.42	20.97	Pass
		Middle	7.86		
		Highest	7.26		
GFSK	2413-2479	Lowest	8.44	20.97	Pass
		Middle	7.79		
		Highest	7.08		
GFSK	2401-2467	Lowest	1.69	20.97	Pass
		Middle	1.72		
		Highest	1.12		

2404-2470 MHz:

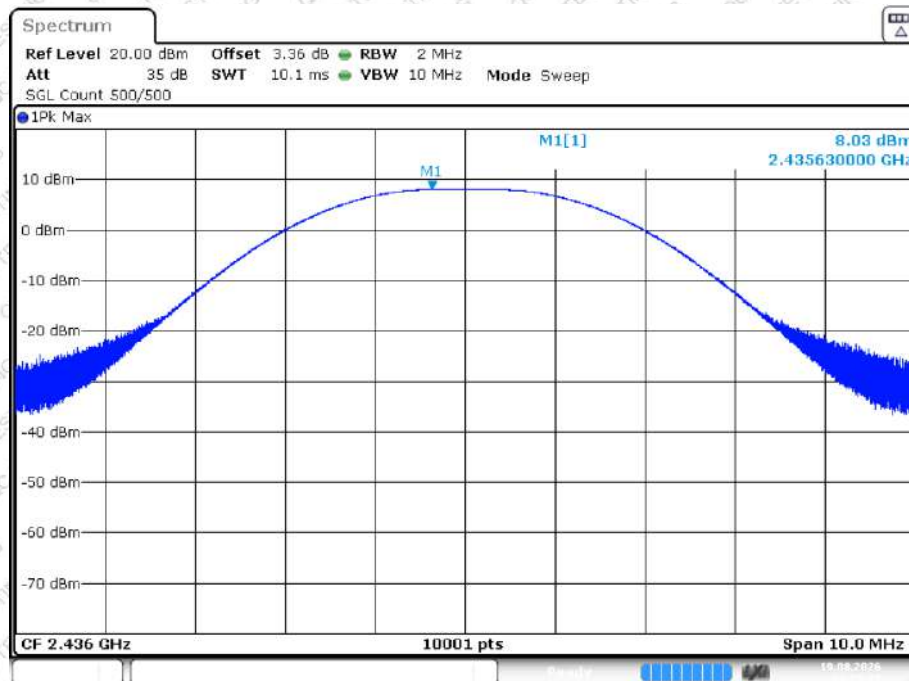
Power NVNT user 2404MHz Ant1



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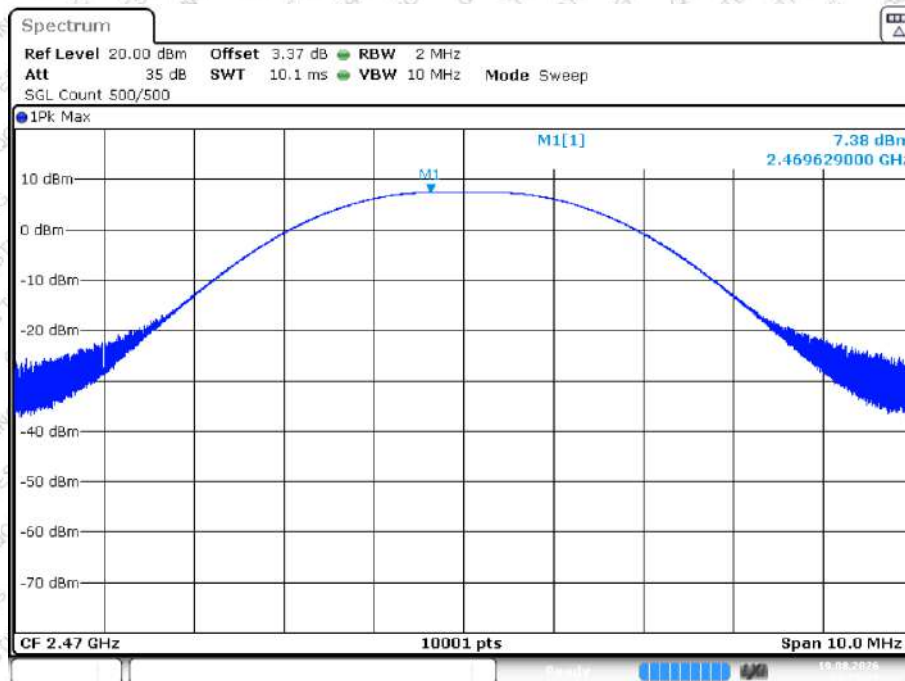


Power NVNT user 2436MHz Ant1



Date: 19.AUG.2026 13:22:17

Power NVNT user 2470MHz Ant1

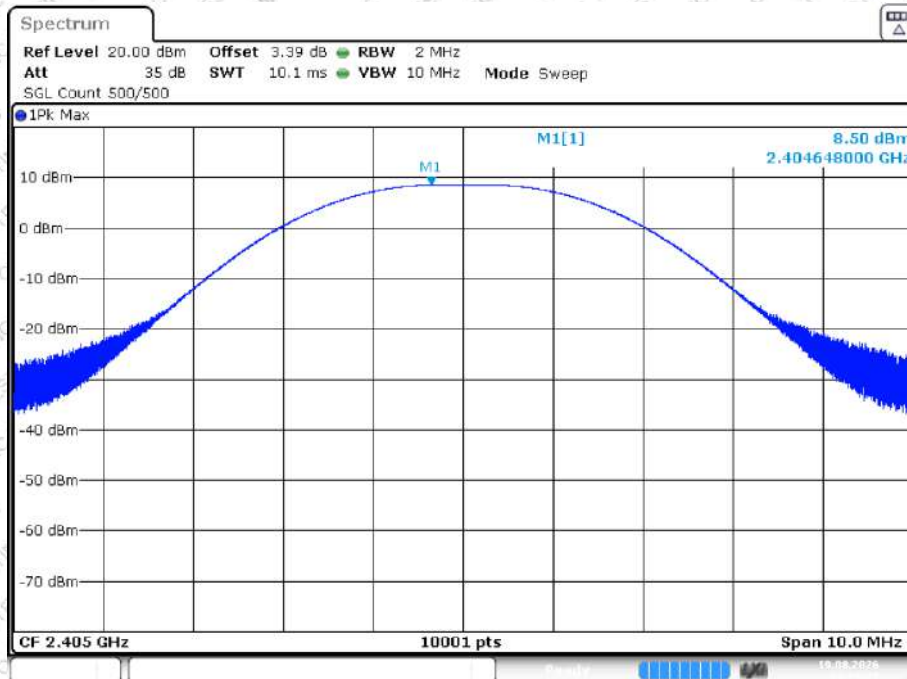


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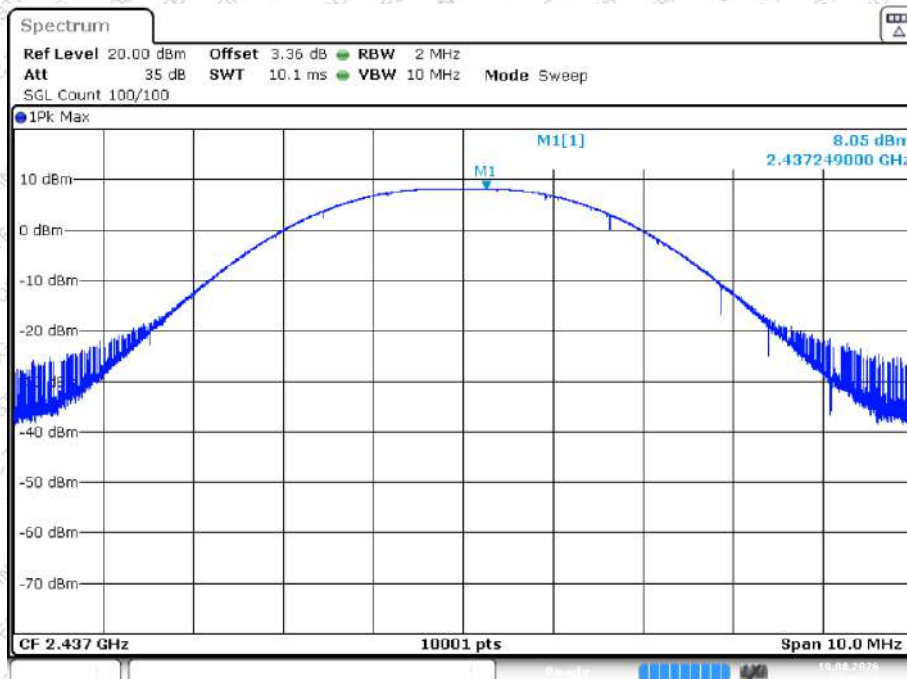
2405-2471 MHz:

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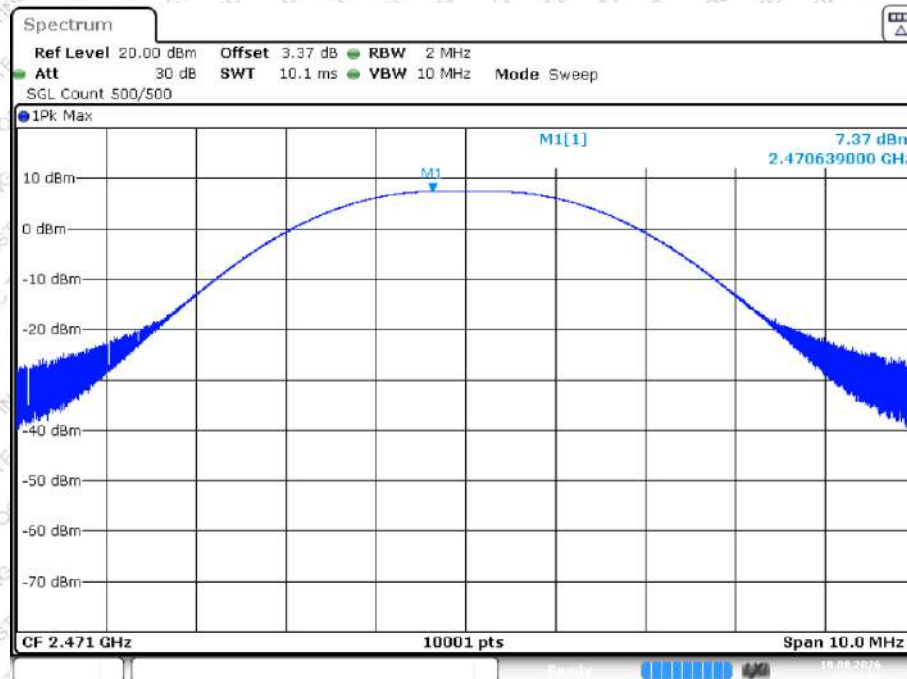
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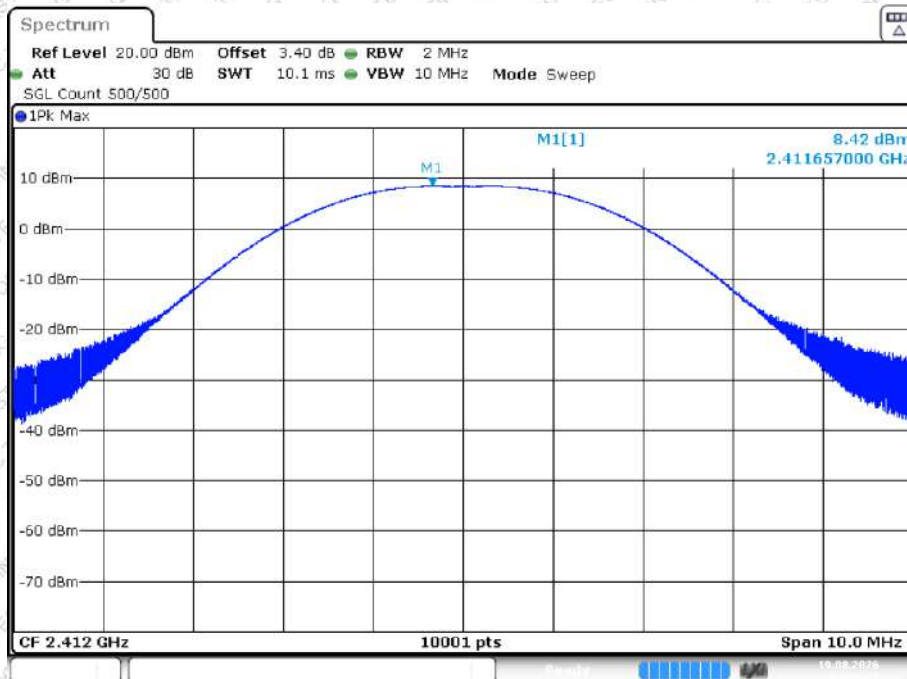
Power NVNT user 2471MHz Ant1



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2412-2478 MHz:

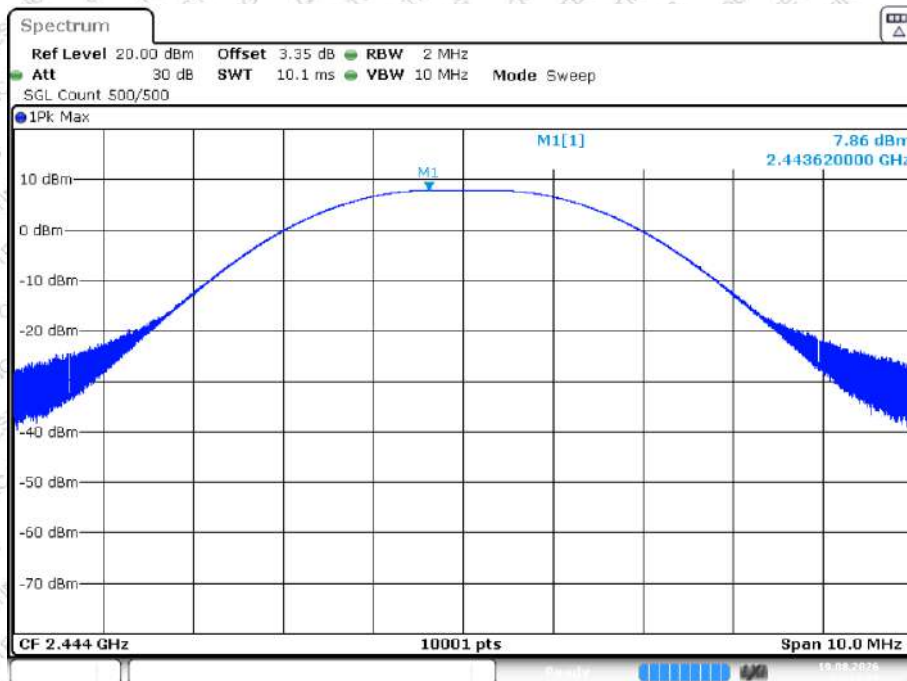
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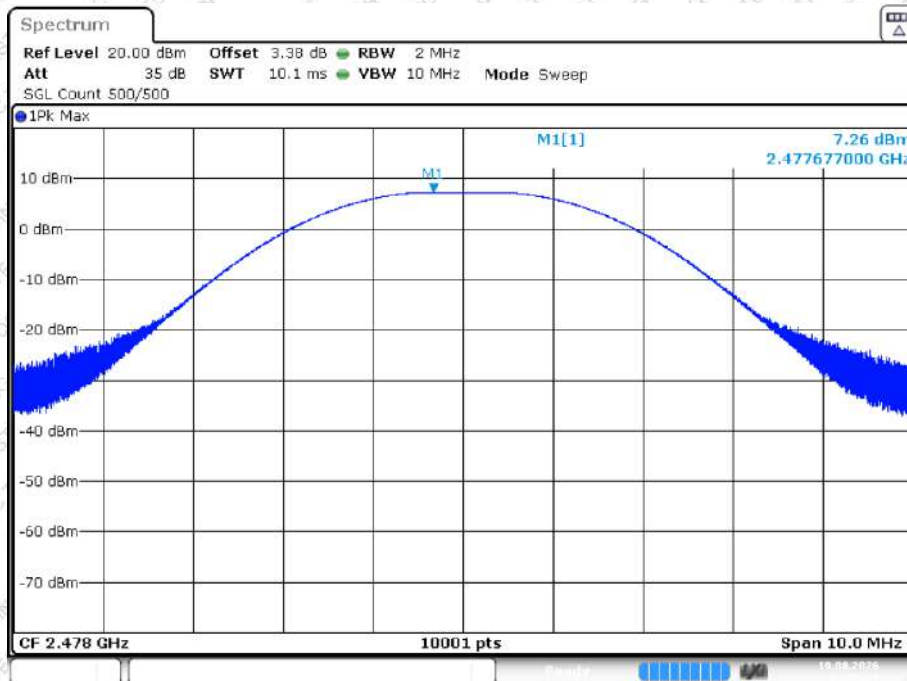


Power NVNT user 2444MHz Ant1



Date: 19.AUG.2026 13:44:22

Power NVNT user 2478MHz Ant1

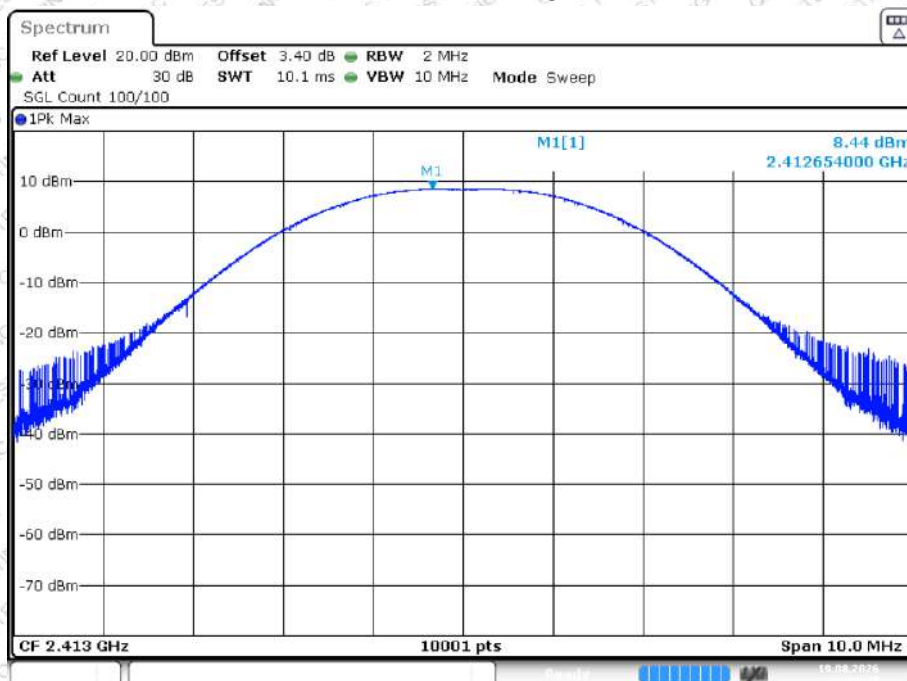


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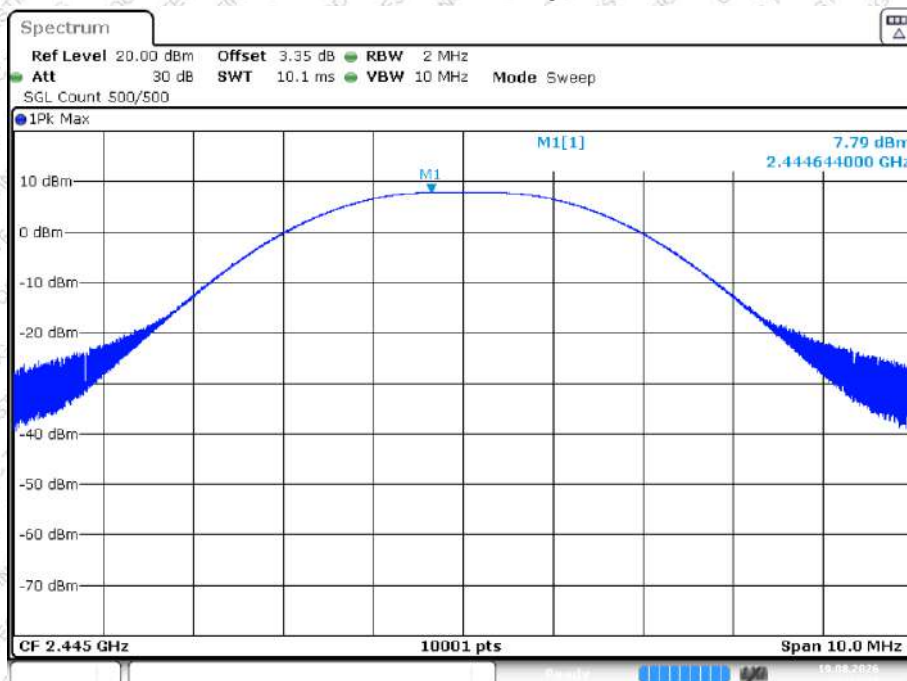
2413-2479 MHz:

Power NVNT user 2413MHz Ant1



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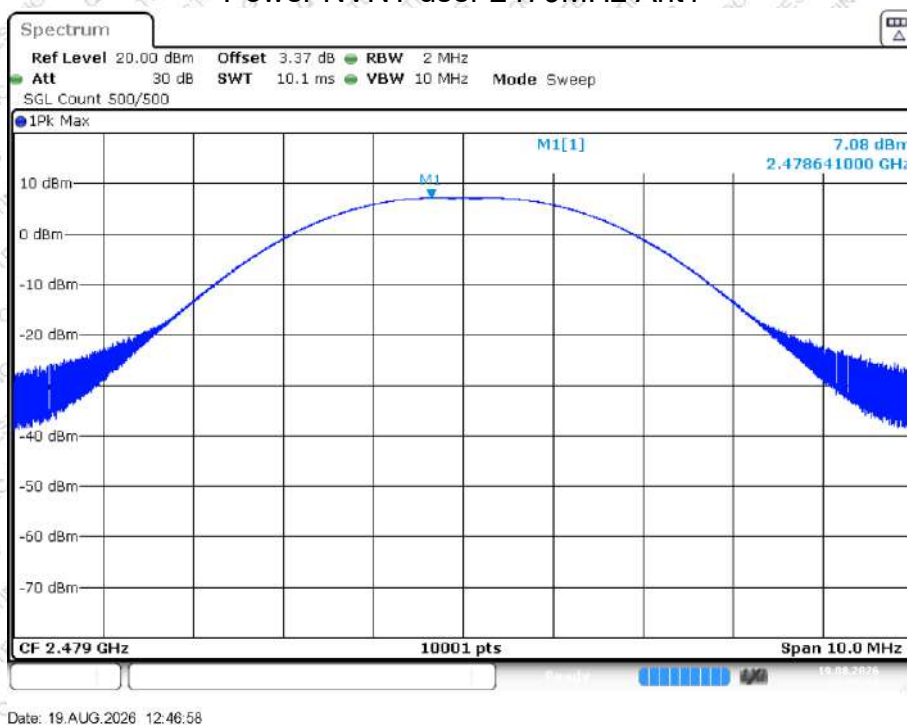
Power NVNT user 2445MHz Ant1



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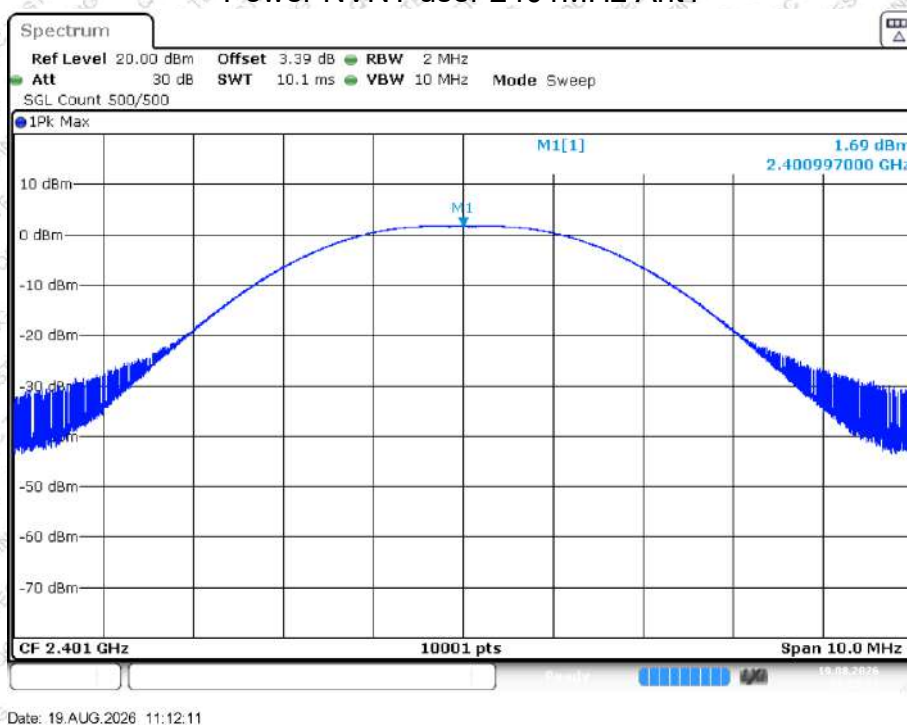


Power NVNT user 2479MHz Ant1



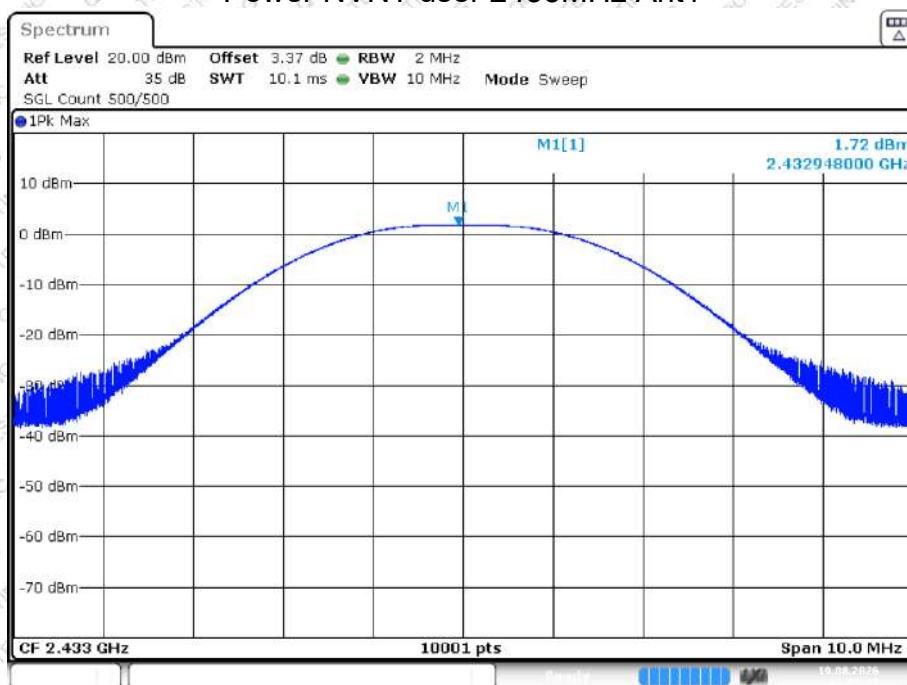
2401-2467 MHz:

Power NVNT user 2401MHz Ant1



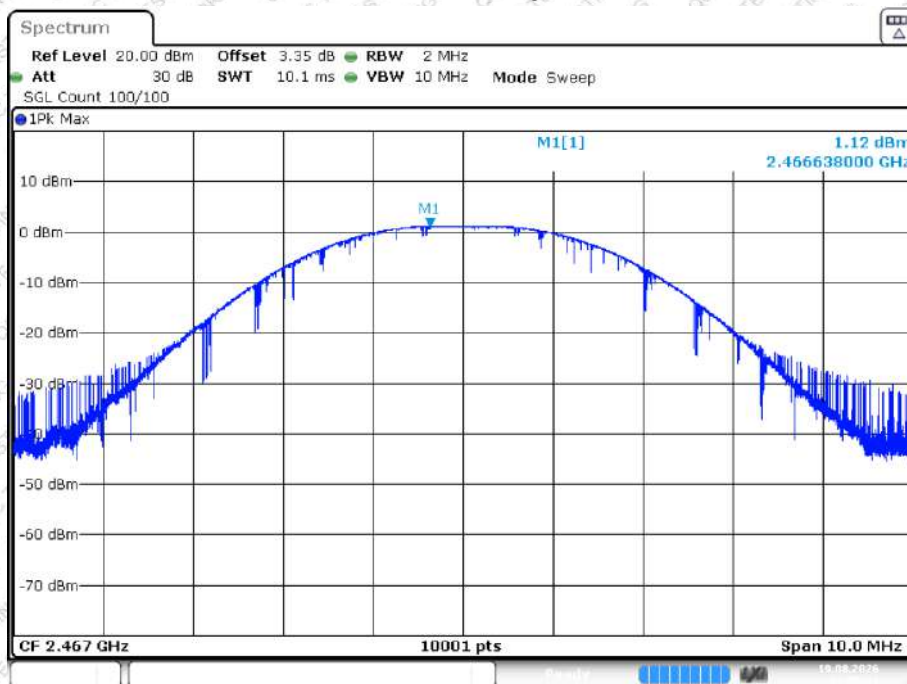


Power NVNT user 2433MHz Ant1



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Power NVNT user 2467MHz Ant1



Date: 19.AUG.2026 11:56:01

7. 20dB Emission Bandwidth

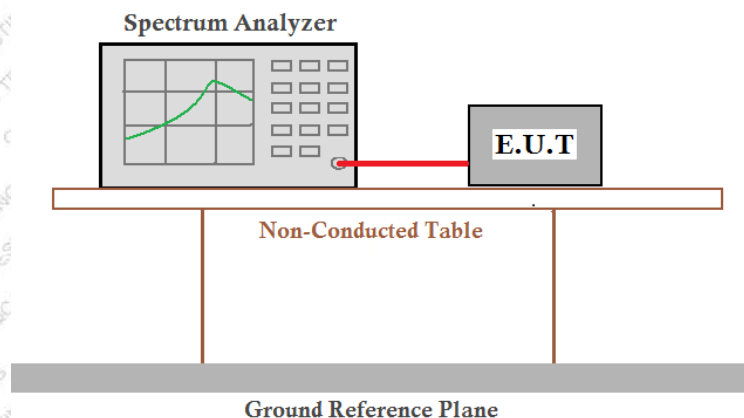
7.1. Applicable Standard

FCC Part15 C Section 15.247 (a)(1)

7.2. Limit

N/A

7.3. Test setup



7.4. Test Procedure

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

7.5. Test Data

Temperature	26.5°C	Humidity	43%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.



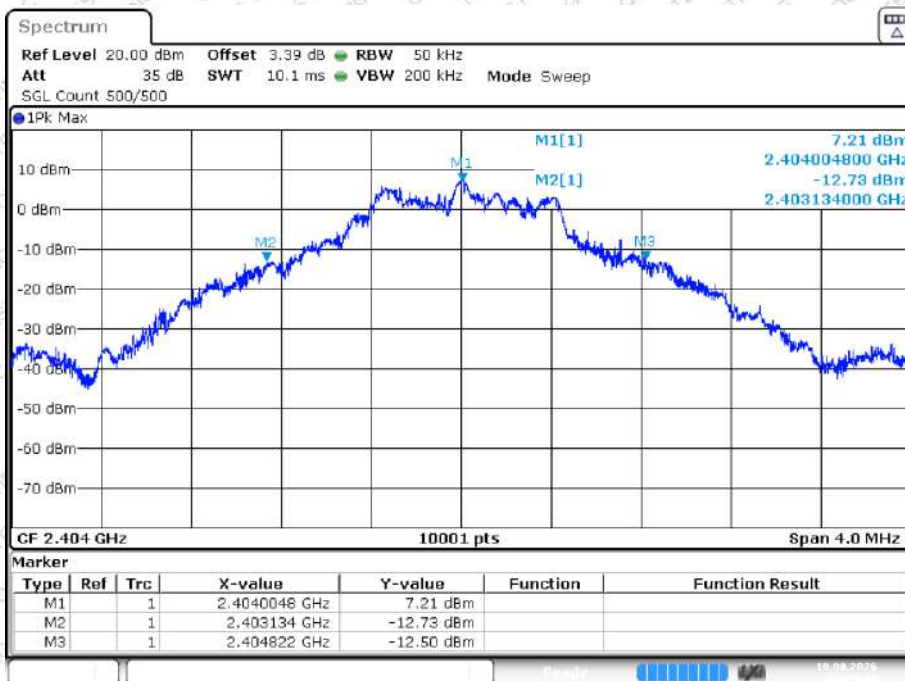
Measurement Data

Mode	Frequency band (MHz)	Test channel	-20dB Emission Bandwidth (MHz)	99% Occupy Bandwidth (MHz)
GFSK	2404-2470	Lowest	1.688	1.599
		Middle	1.671	1.623
		Highest	1.793	1.618
GFSK	2405-2471	Lowest	1.782	1.597
		Middle	1.729	1.612
		Highest	1.772	1.623
GFSK	2412-2478	Lowest	1.691	1.602
		Middle	1.621	1.611
		Highest	1.781	1.617
GFSK	2413-2479	Lowest	1.62	1.618
		Middle	1.7	1.637
		Highest	1.713	1.625
GFSK	2401-2467	Lowest	1.581	1.6
		Middle	1.728	1.635
		Highest	1.663	1.618



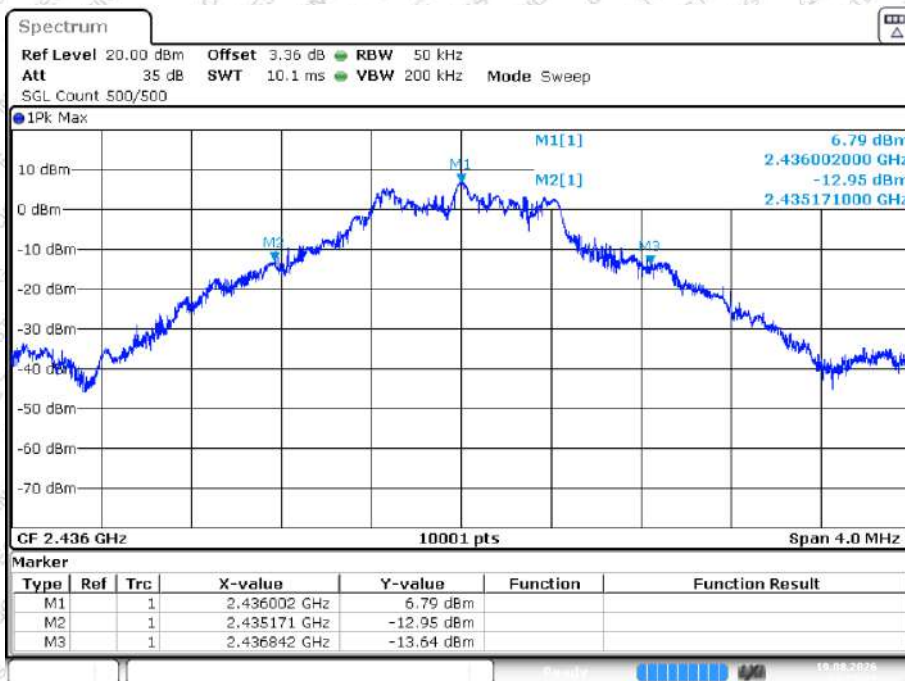
-20dB Bandwidth:
2404-2470 MHz:

-20dB Bandwidth NVNT user 2404MHz Ant1



Date: 19.AUG.2026 13:19:11

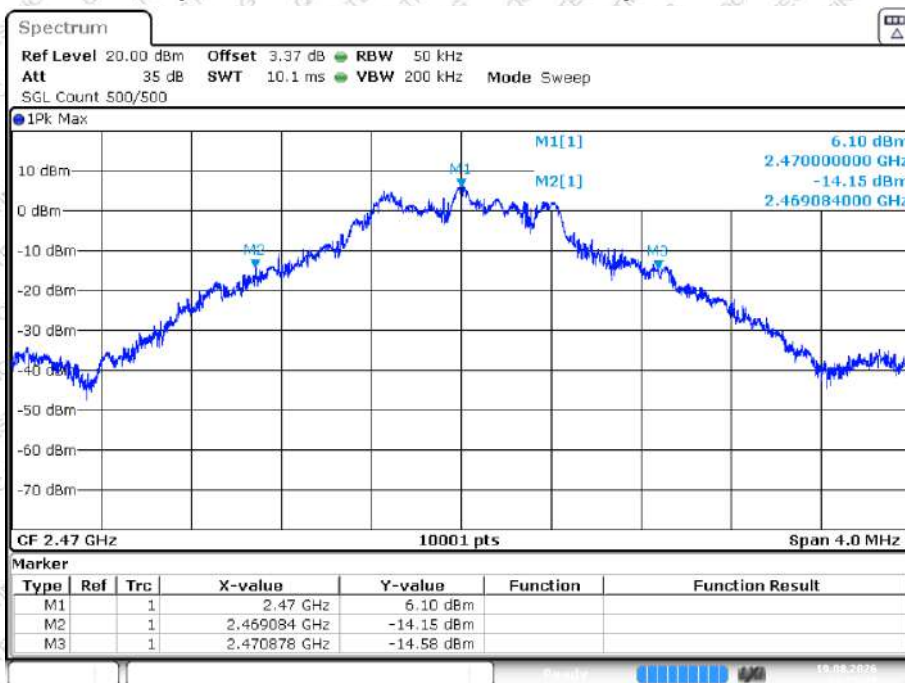
-20dB Bandwidth NVNT user 2436MHz Ant1



Date: 19.AUG.2026 13:22:44



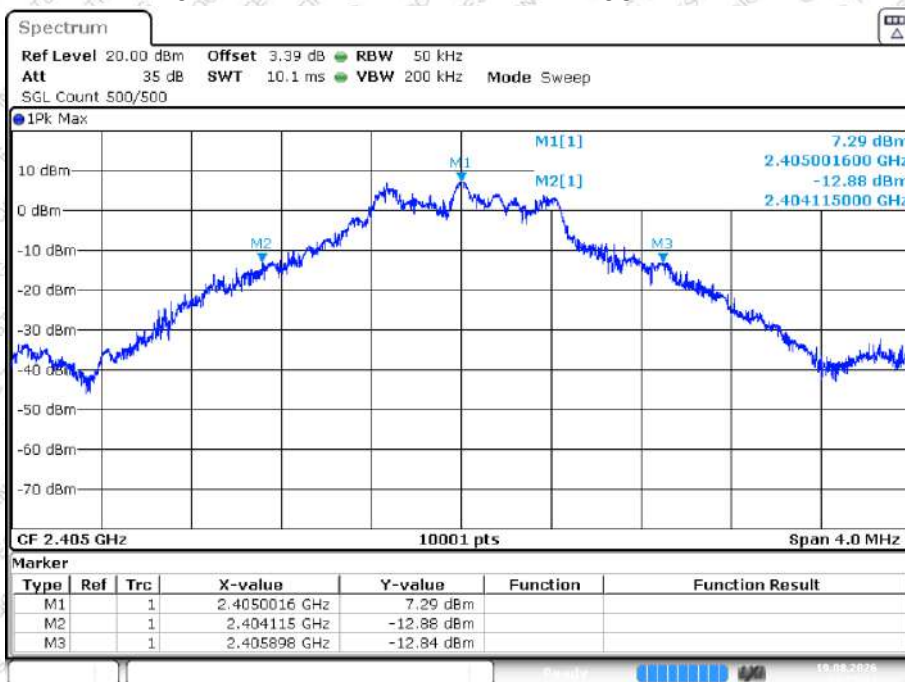
-20dB Bandwidth NVNT user 2470MHz Ant1



Date: 19.AUG.2026 13:26:49

2405-2471 MHz:

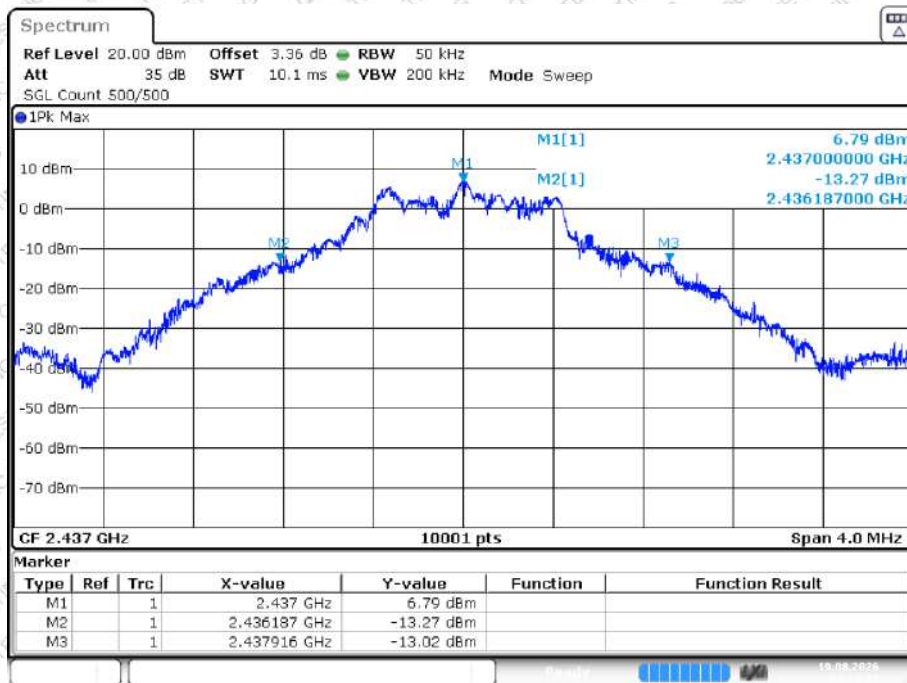
-20dB Bandwidth NVNT user 2405MHz Ant1



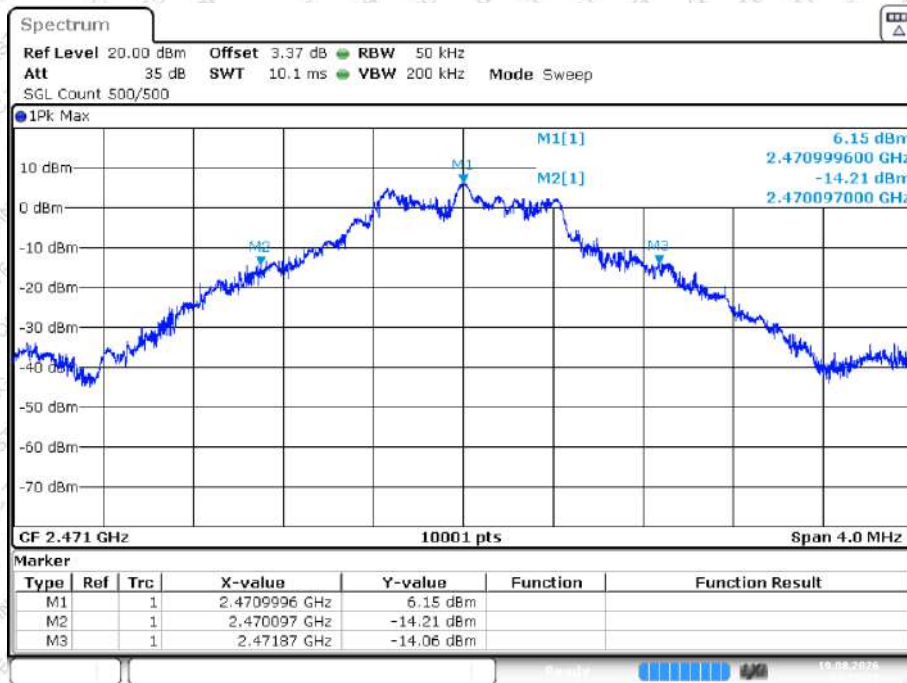
Date: 19.AUG.2026 14:32:35



-20dB Bandwidth NVNT user 2437MHz Ant1



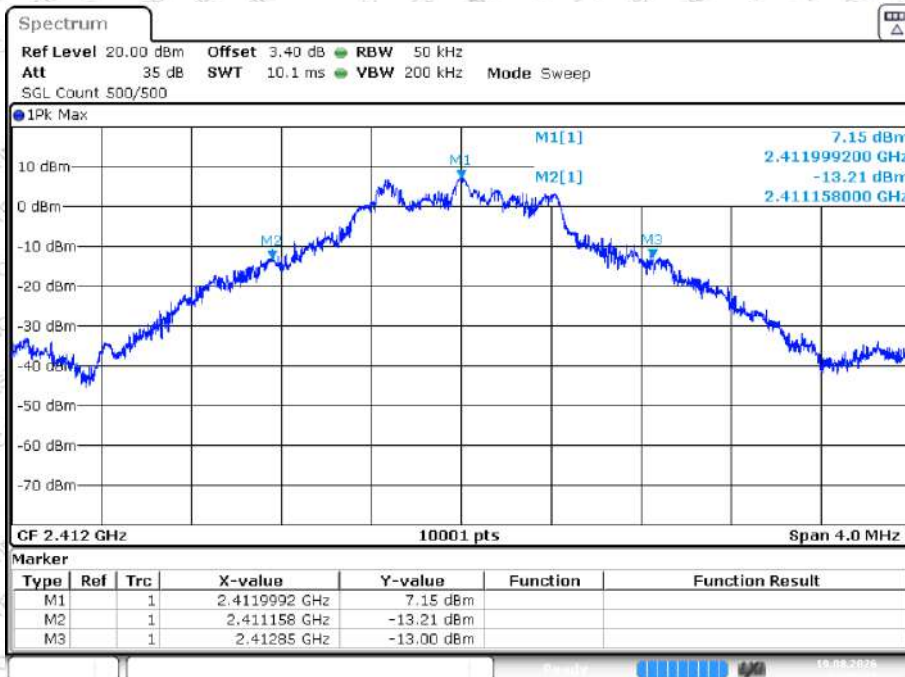
-20dB Bandwidth NVNT user 2471MHz Ant1



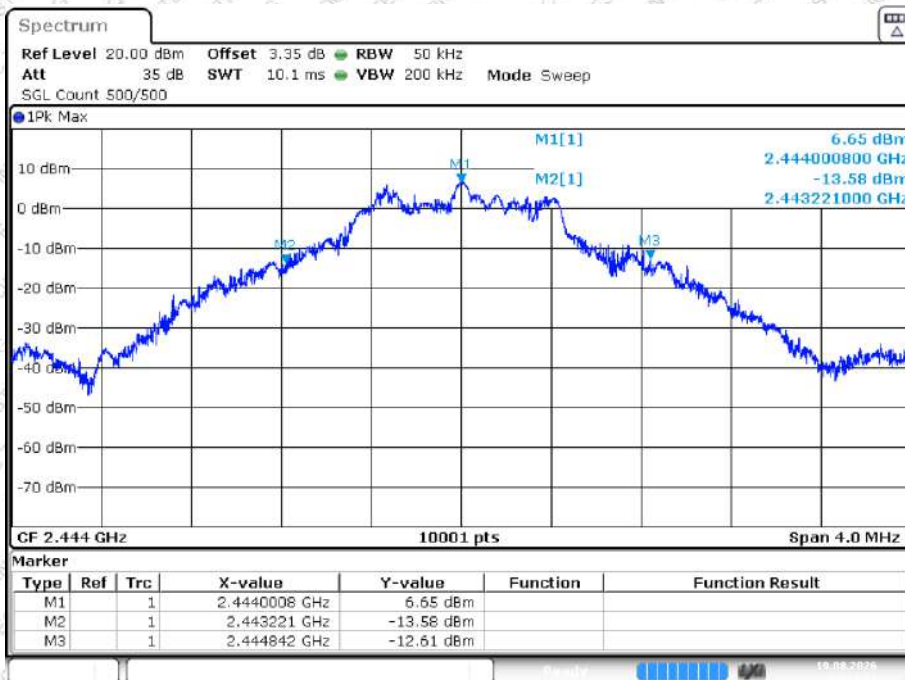


2412-2478 MHz:

-20dB Bandwidth NVNT user 2412MHz Ant1

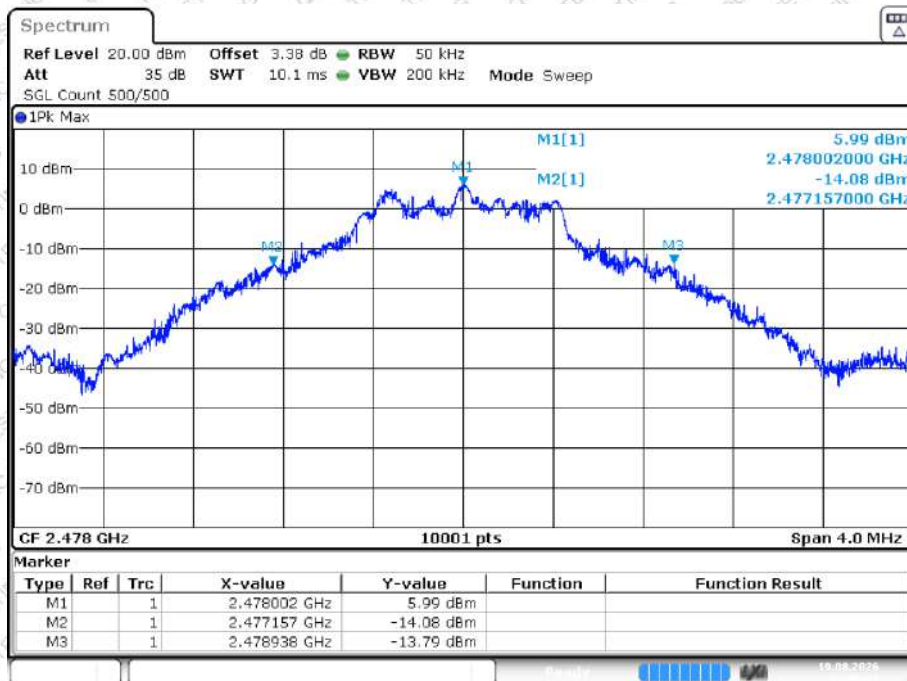


-20dB Bandwidth NVNT user 2444MHz Ant1





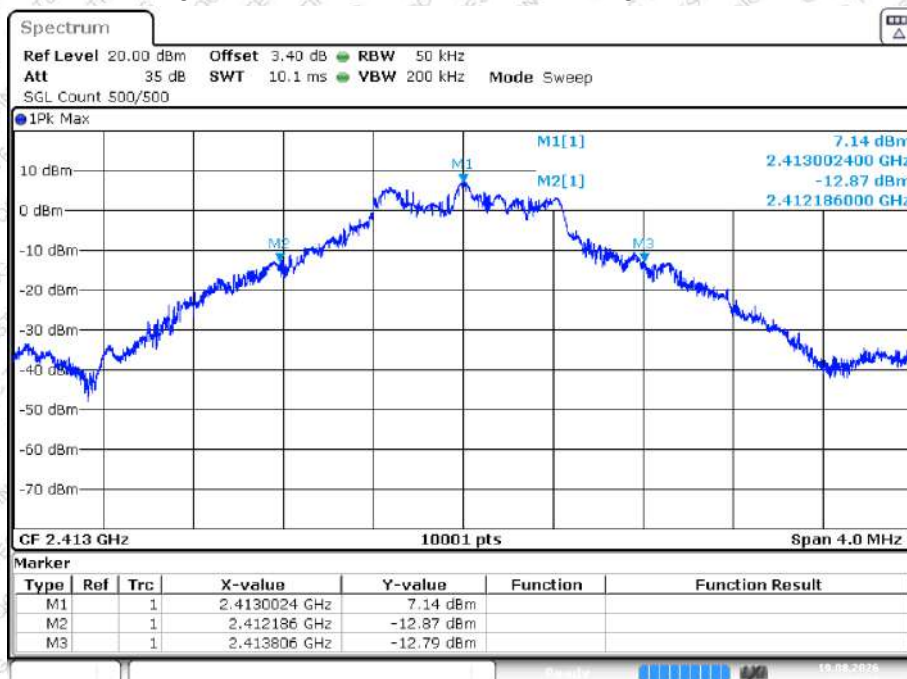
-20dB Bandwidth NVNT user 2478MHz Ant1



Date: 19.AUG.2026 13:48:21

2413-2479 MHz:

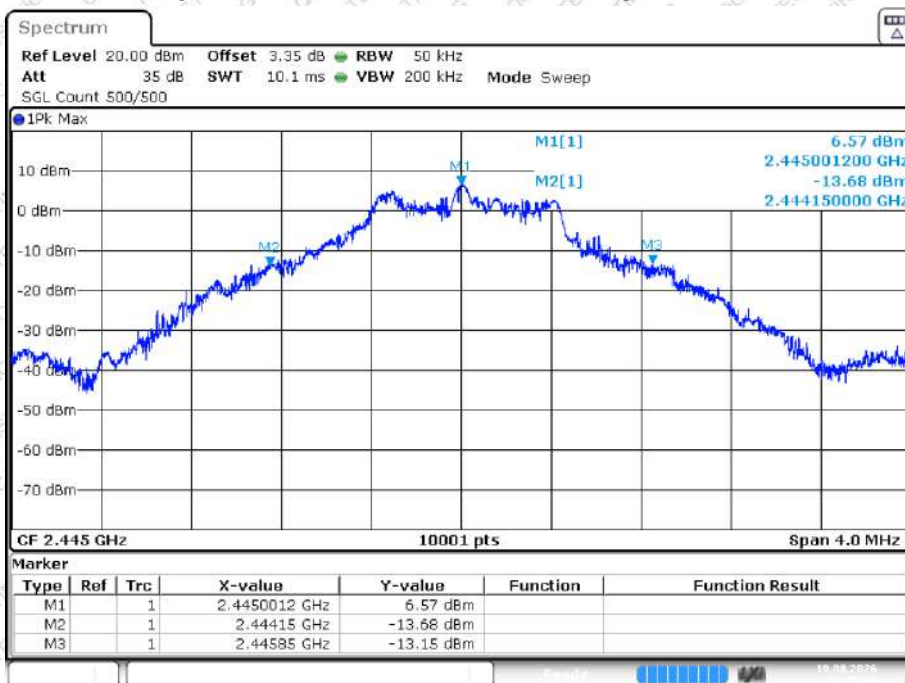
-20dB Bandwidth NVNT user 2413MHz Ant1



Date: 19.AUG.2026 12:38:32

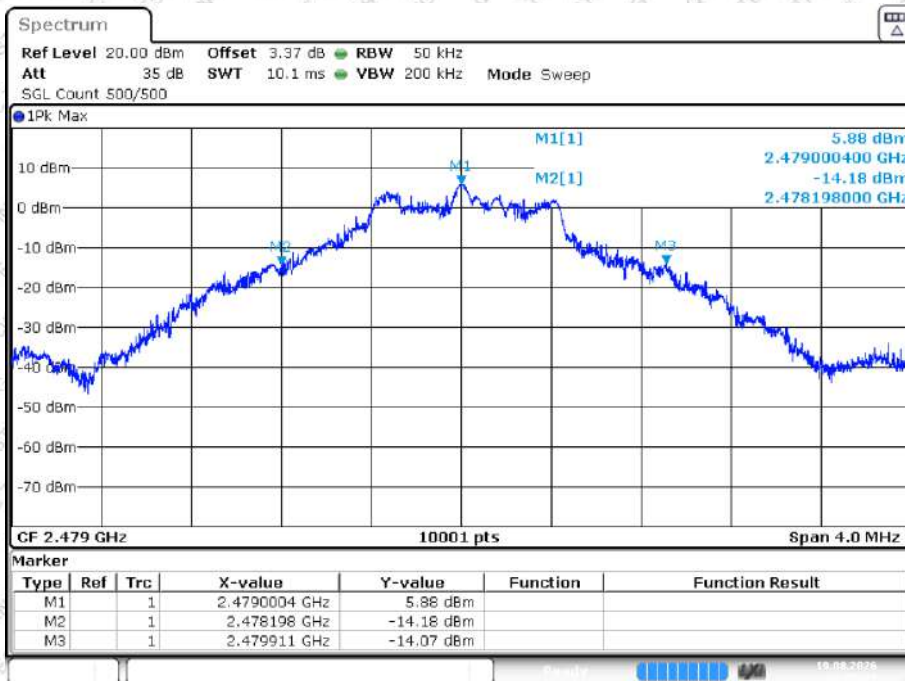


-20dB Bandwidth NVNT user 2445MHz Ant1



Date: 19.AUG.2026 12:45:46

-20dB Bandwidth NVNT user 2479MHz Ant1

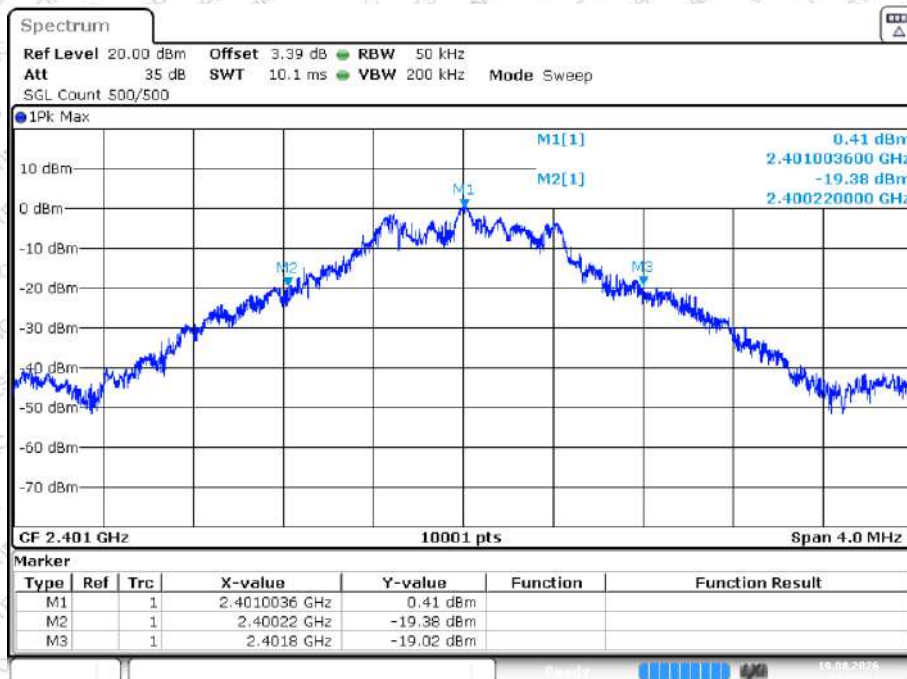


Date: 19.AUG.2026 12:47:22

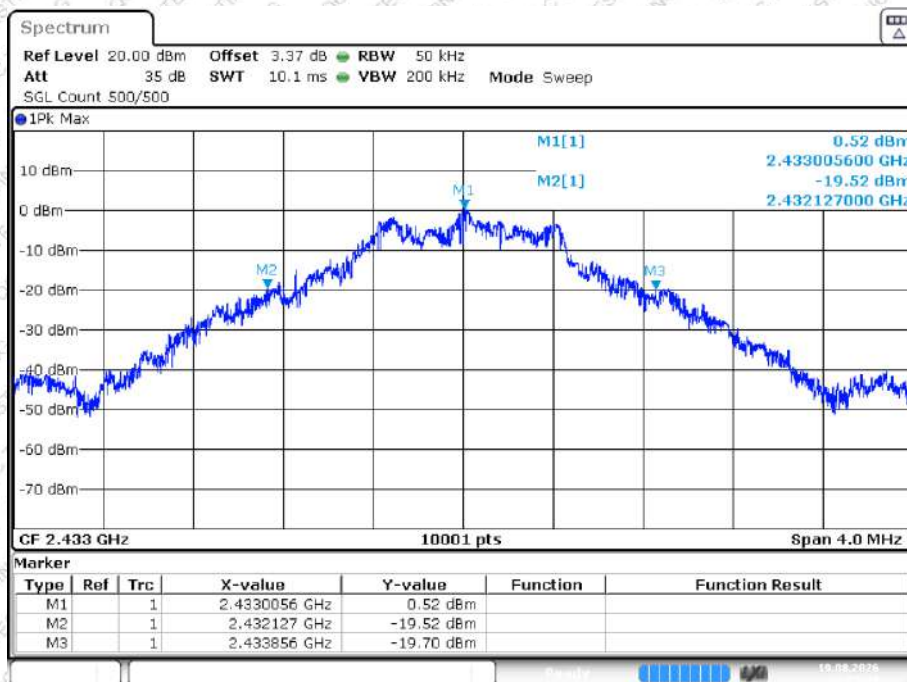


2401-2467 MHz:

-20dB Bandwidth NVNT user 2401MHz Ant1

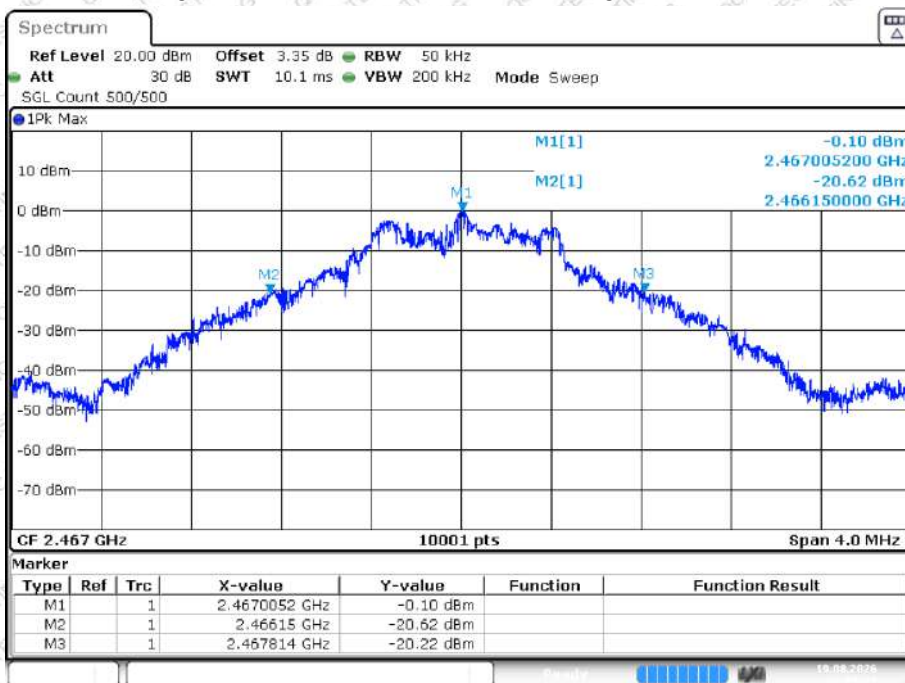


-20dB Bandwidth NVNT user 2433MHz Ant1





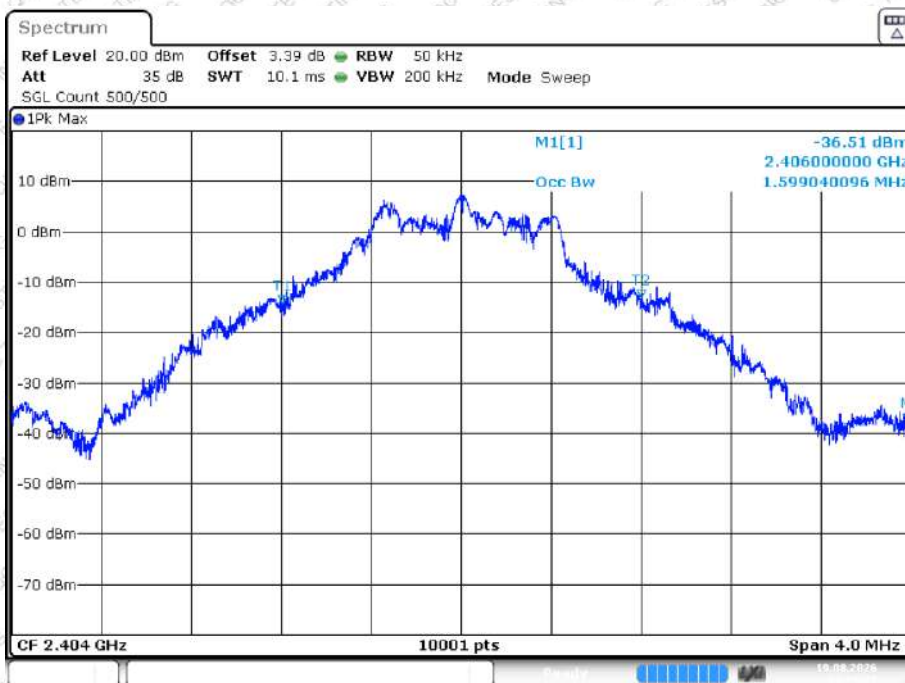
-20dB Bandwidth NVNT user 2467MHz Ant1



Date: 19.AUG.2026 12:01:21

**99% Occupied Bandwidth:
2404-2470 MHz:**

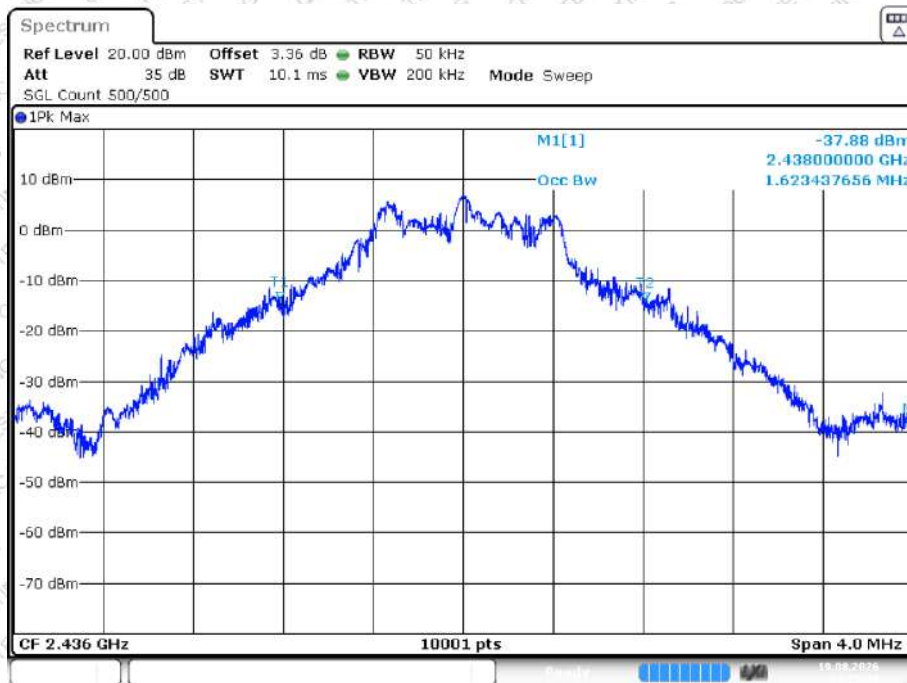
OBW NVNT user 2404MHz Ant1



Date: 19.AUG.2026 13:18:58

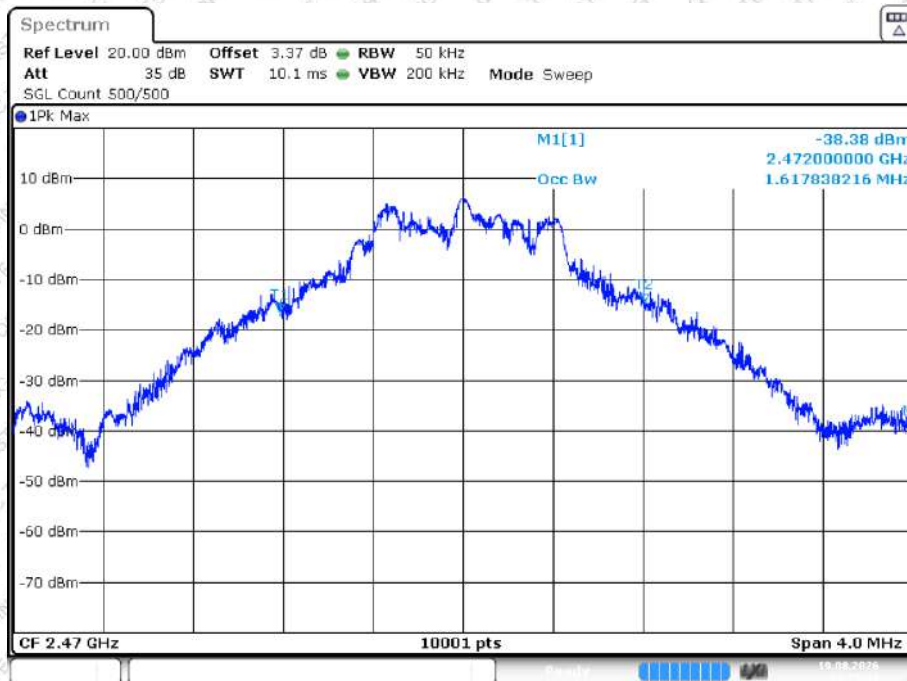


OBW NVNT user 2436MHz Ant1



Date: 19.AUG.2026 13:22:31

OBW NVNT user 2470MHz Ant1

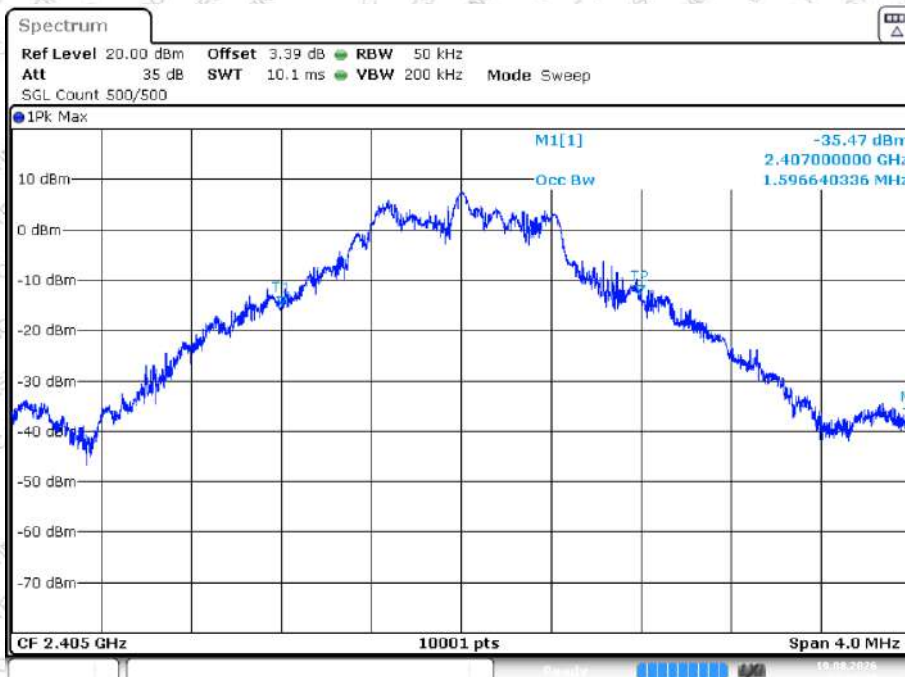


Date: 19.AUG.2026 13:26:36



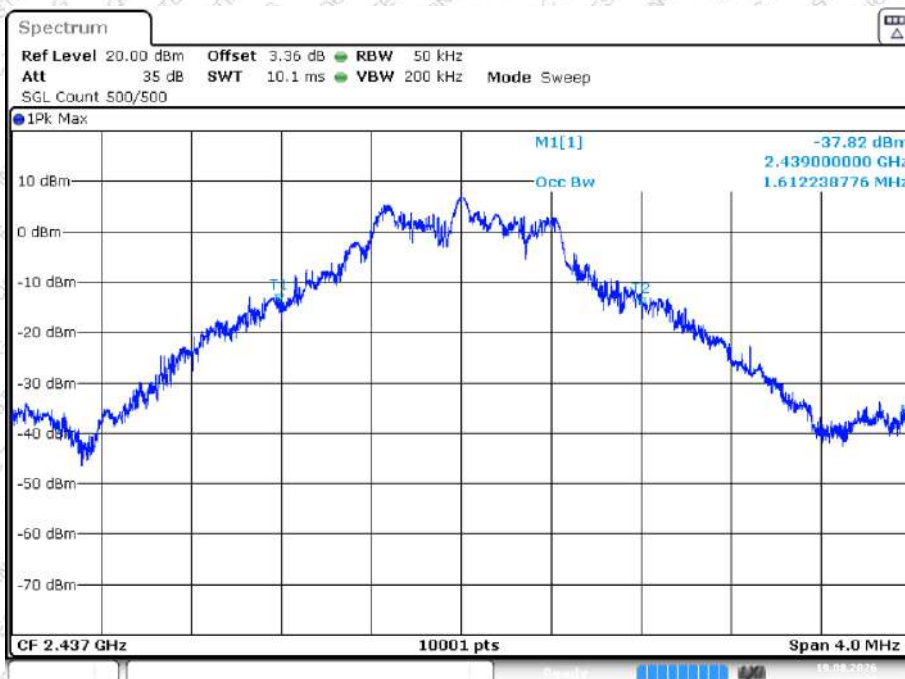
2405-2471 MHz:

OBW NVNT user 2405MHz Ant1



Date: 19.AUG.2026 14:19:48

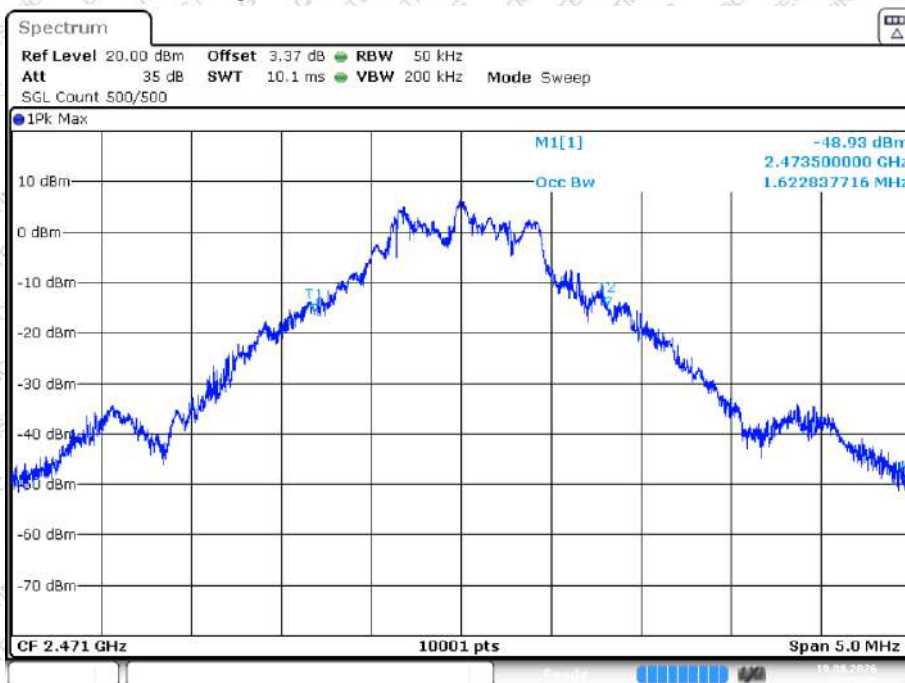
OBW NVNT user 2437MHz Ant1



Date: 19.AUG.2026 14:34:15



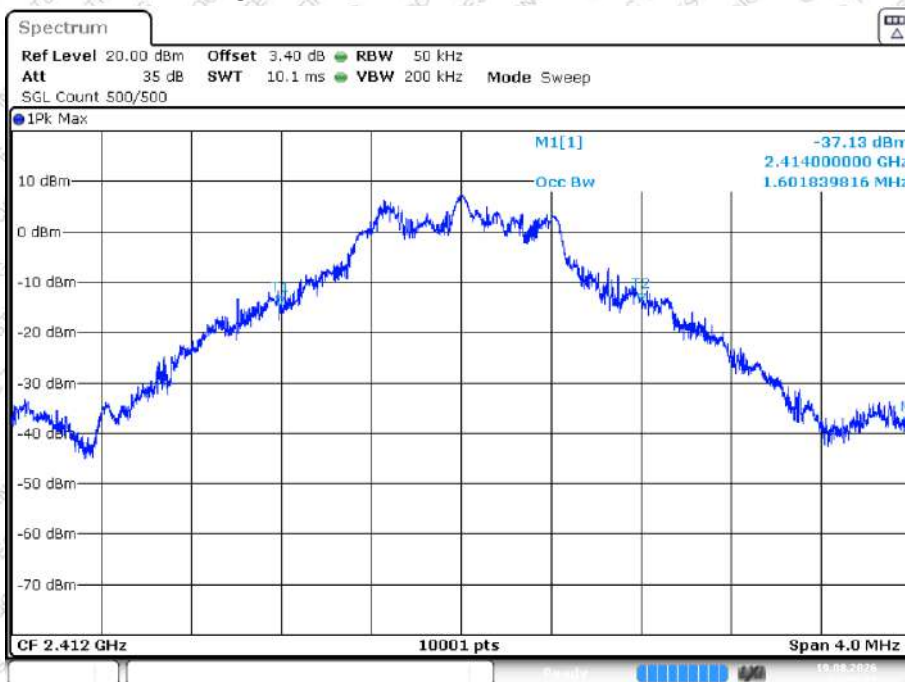
OBW NVNT user 2471MHz Ant1



Date: 19.AUG.2026 14:28:25

2412-2478 MHz:

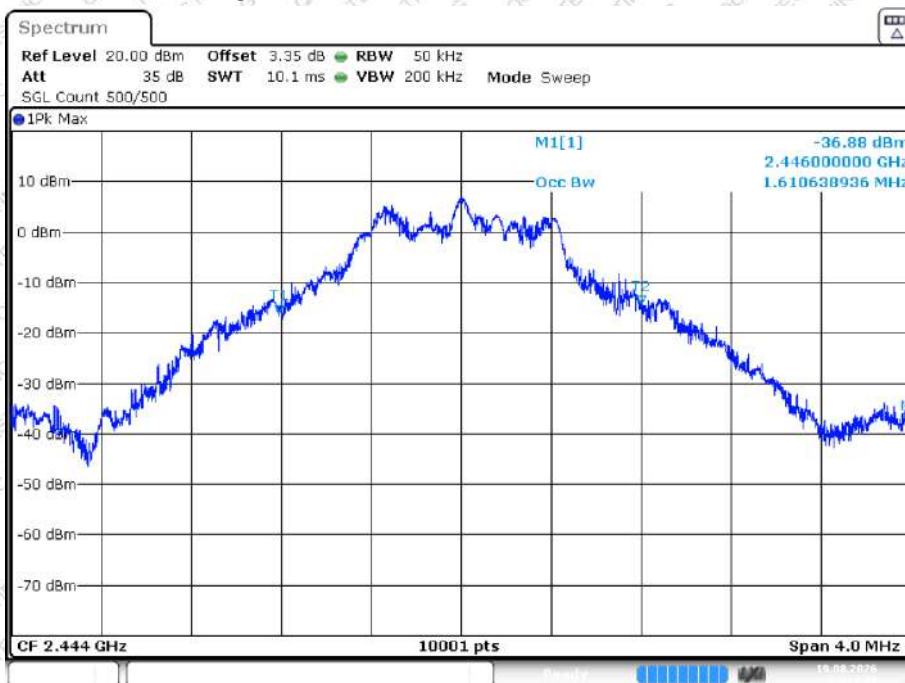
OBW NVNT user 2412MHz Ant1



Date: 19.AUG.2026 13:40:26

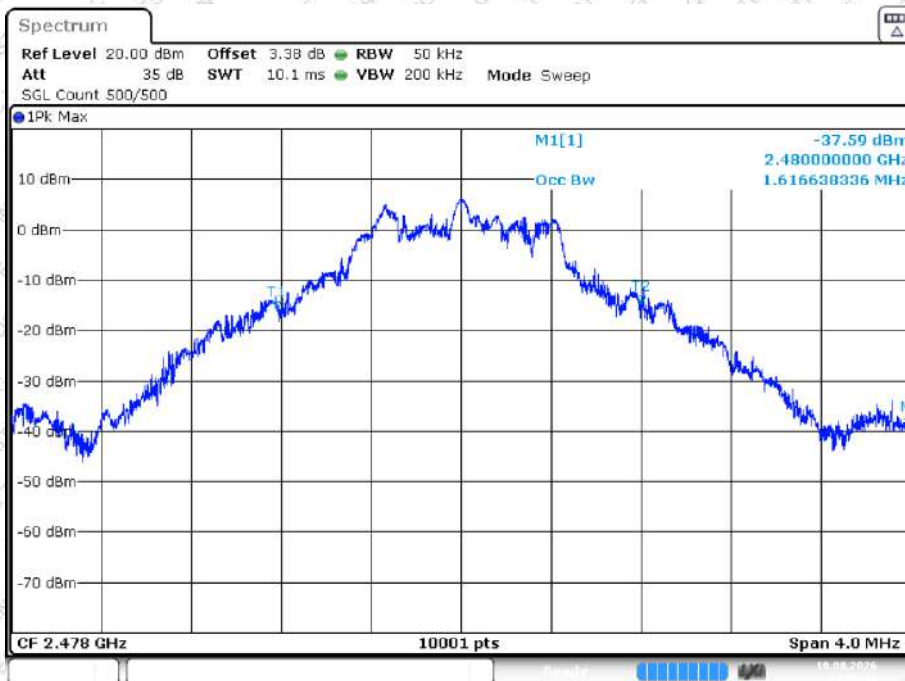


OBW NVNT user 2444MHz Ant1



Date: 19.AUG.2026 13:44:37

OBW NVNT user 2478MHz Ant1

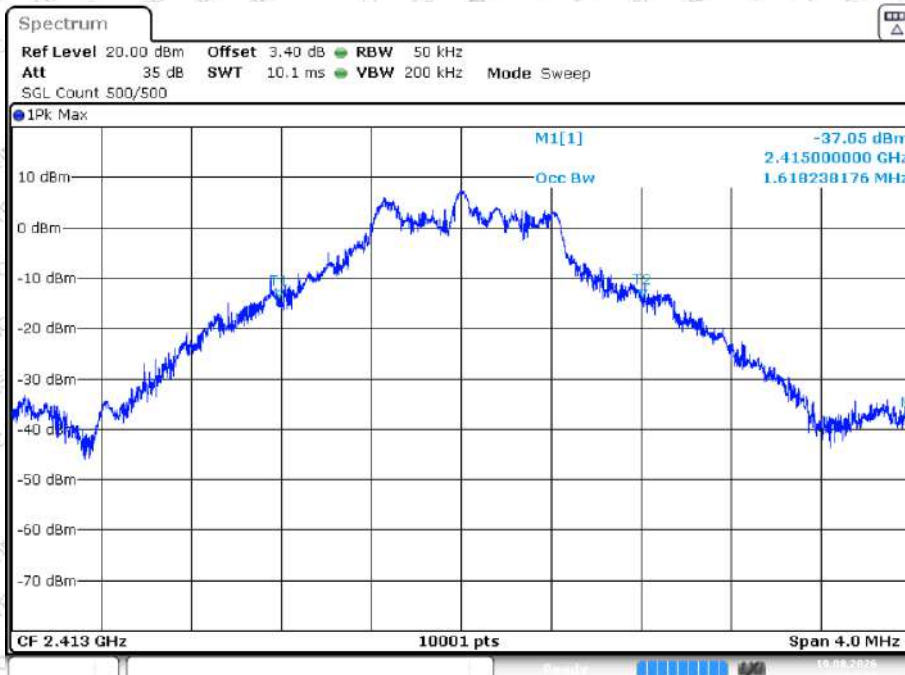


Date: 19.AUG.2026 13:48:07



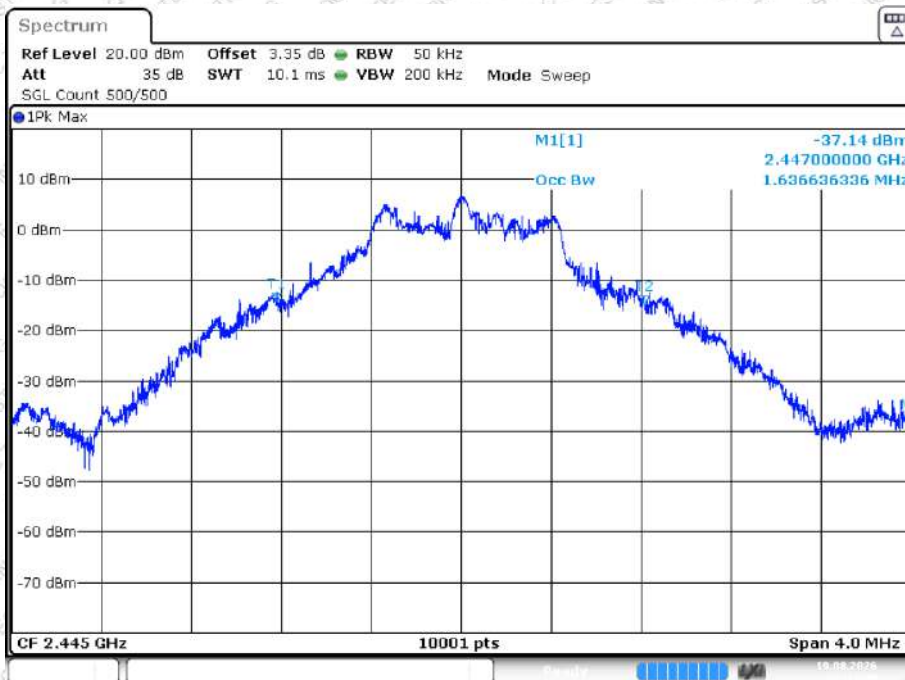
2413-2479 MHz:

OBW NVNT user 2413MHz Ant1



Date: 19.AUG.2026 12:38:19

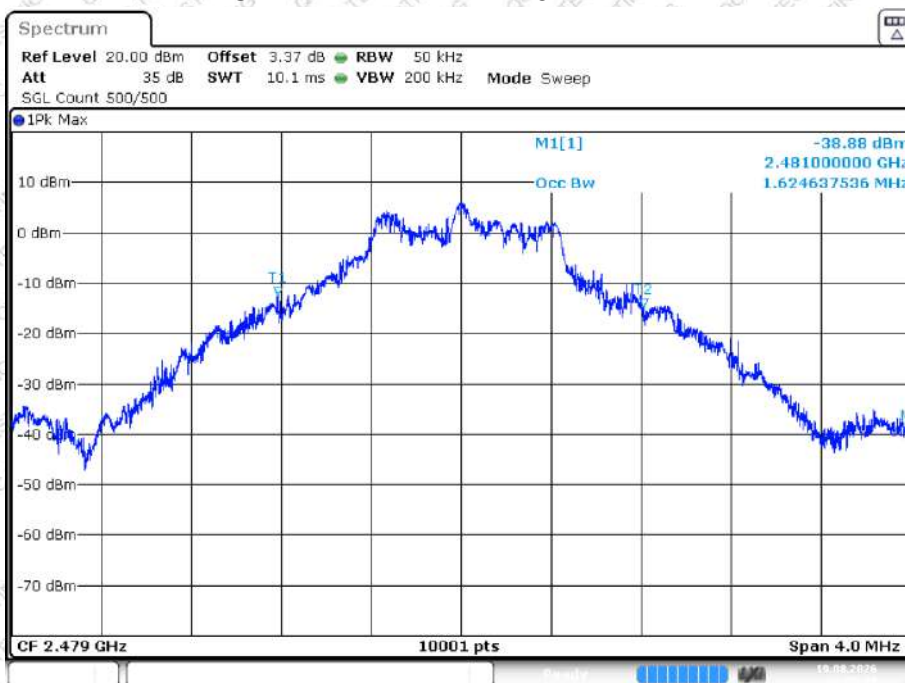
OBW NVNT user 2445MHz Ant1



Date: 19.AUG.2026 12:43:41



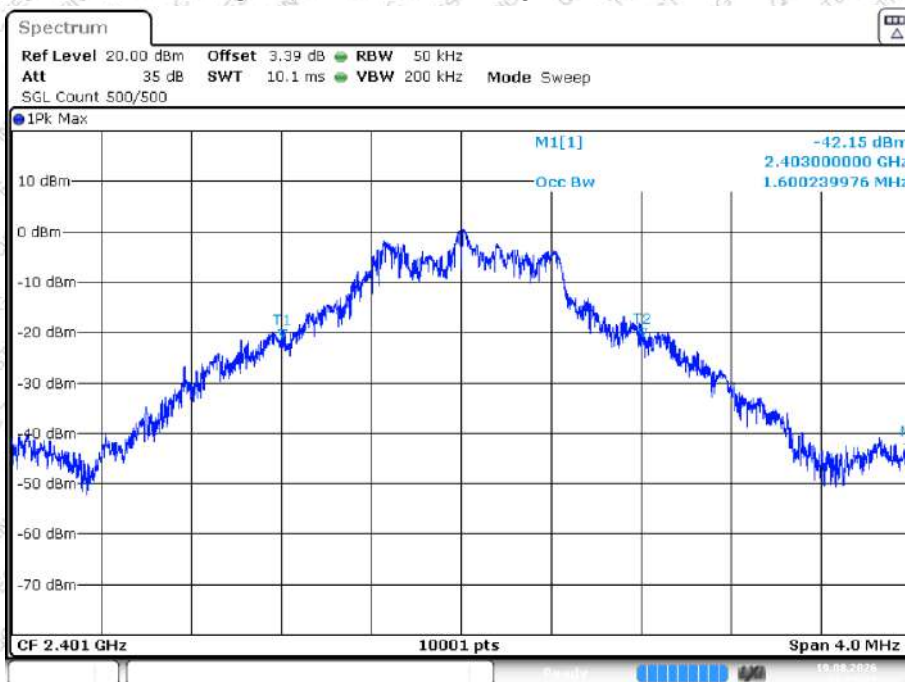
OBW NVNT user 2479MHz Ant1



Date: 19.AUG.2026 12:47:10

2401-2467 MHz:

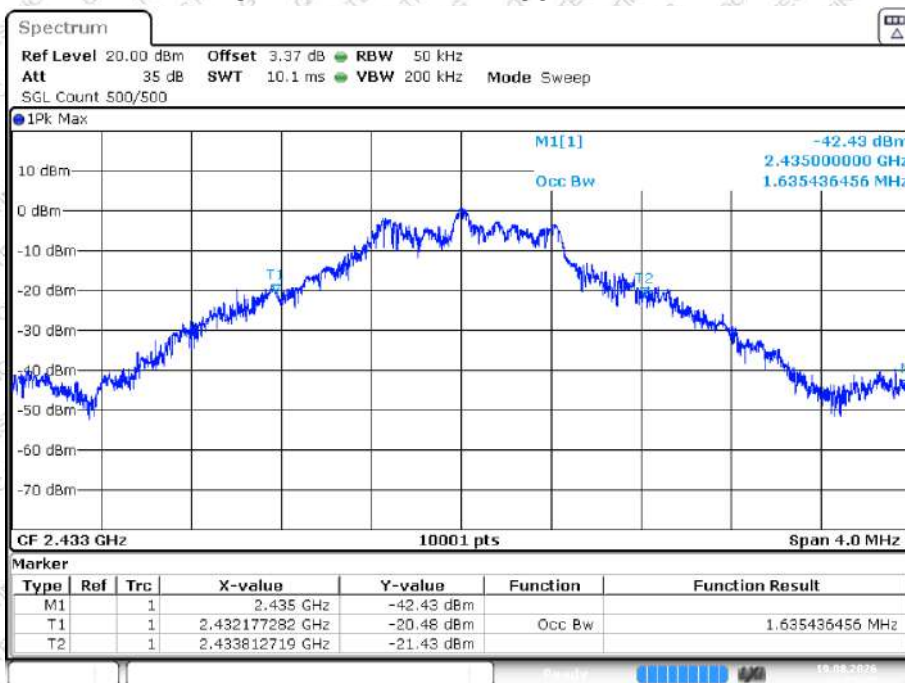
OBW NVNT user 2401MHz Ant1



Date: 19.AUG.2026 11:12:24

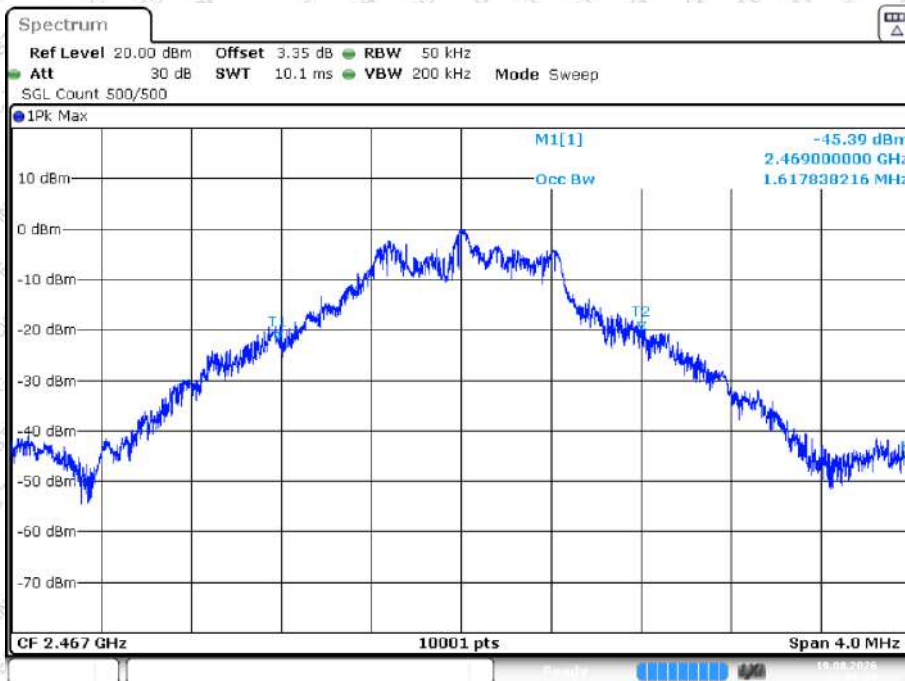


OBW NVNT user 2433MHz Ant1



Date: 19.AUG.2026 12:26:25

OBW NVNT user 2467MHz Ant1



Date: 19.AUG.2026 12:01:08

8. Carrier Frequencies Separation

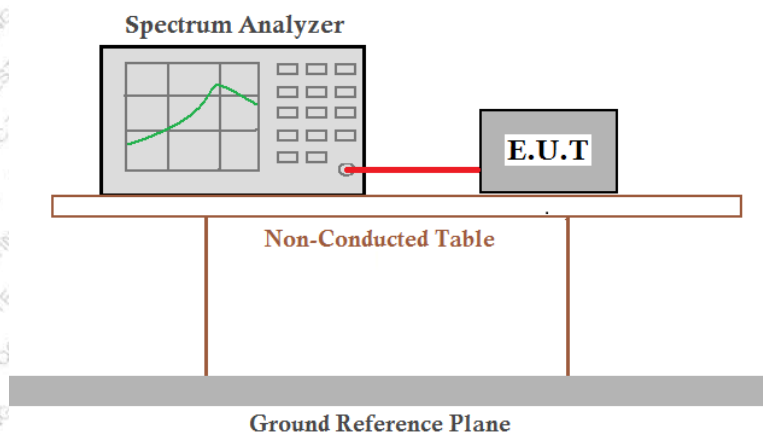
8.1. Applicable Standard

FCC Part15 C Section 15.247 (a)(1)

8.2. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

8.3. Test setup



8.4. Test Procedure

1. Set the EUT in transmitting mode, max hold the channel.
2. Set the adjacent channel of the EUT and max hold another trace.
3. Measure the channel separation.

8.5. Test Data

Temperature	26.5°C	Humidity	43%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.



Measurement Data

Mode	Frequency band (MHz)	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	≥Limit (MHz)	Result
GFSK	2404-2470	2436	2438.004	2.004	1.195	Pass
GFSK	2405-2471	2437.004	2439	1.996	1.188	Pass
GFSK	2412-2478	2443.992	2446.004	2.012	1.187	Pass
GFSK	2413-2479	2445.008	2447	1.992	1.142	Pass
GFSK	2401-2467	2433.012	2435.004	1.992	1.152	Pass

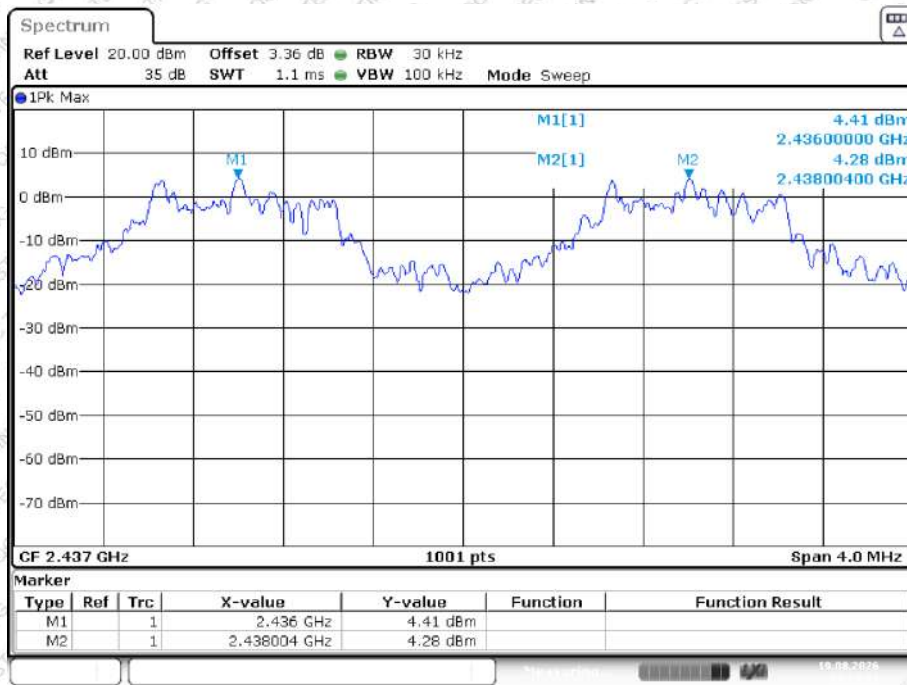
Mode	Frequency band (MHz)	-20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	2404-2470	1.793	1.195
GFSK	2405-2471	1.782	1.188
GFSK	2412-2478	1.781	1.187
GFSK	2413-2479	1.713	1.142
GFSK	2401-2467	1.728	1.152

Note: According to section 7.5

$$\text{Limit} = (2/3) * -20\text{dB bandwidth}$$

2404-2470 MHz:

CFS NVNT user 2436MHz Ant1

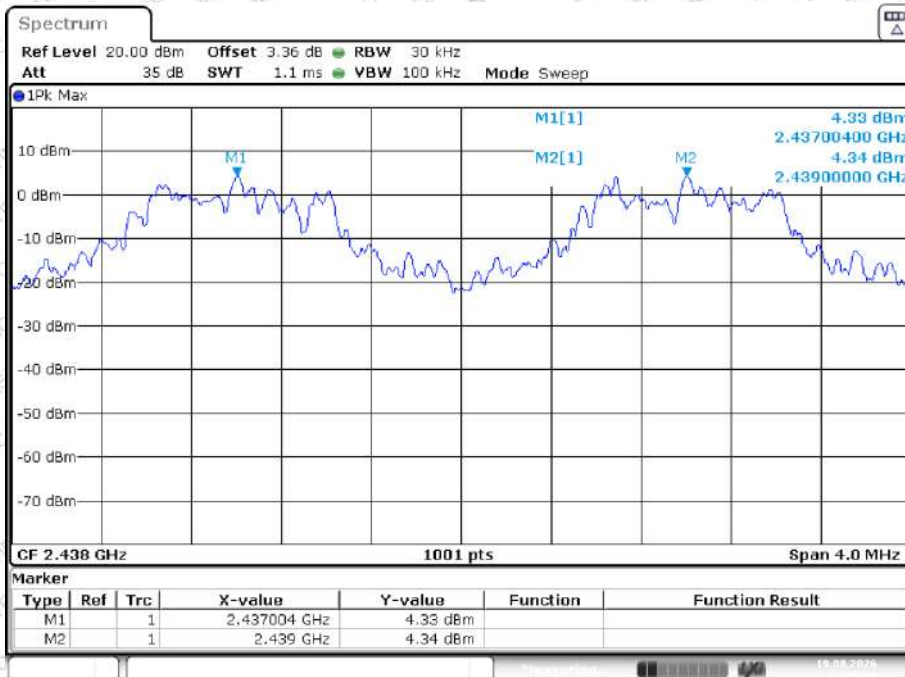


Date: 19.AUG.2026 13:14:51



2405-2471 MHz:

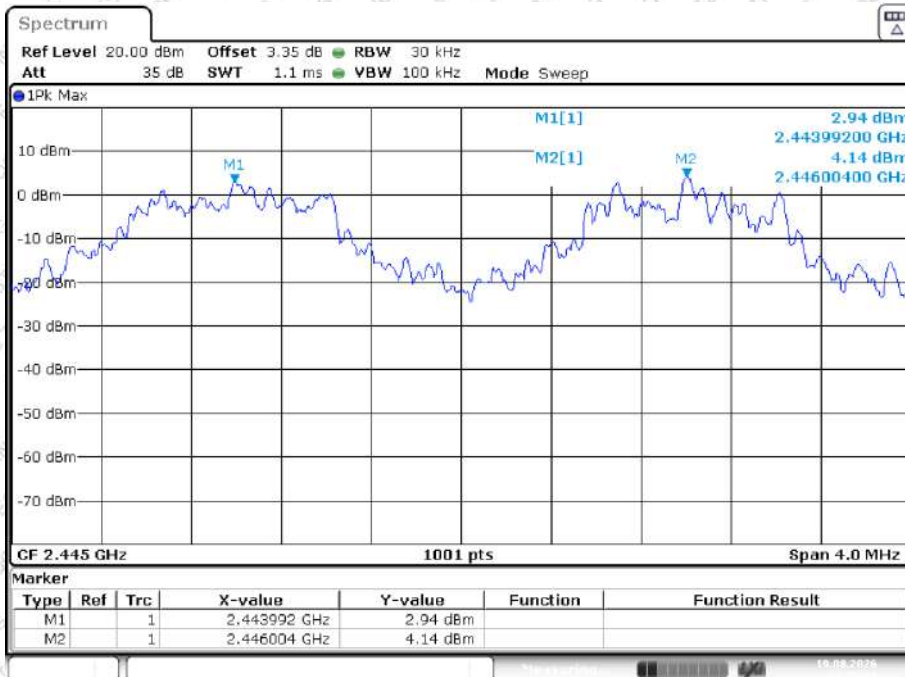
CFS NVNT user 2437MHz Ant1



Date: 19.AUG.2026 14:07:22

2412-2478 MHz:

CFS NVNT user 2444MHz Ant1

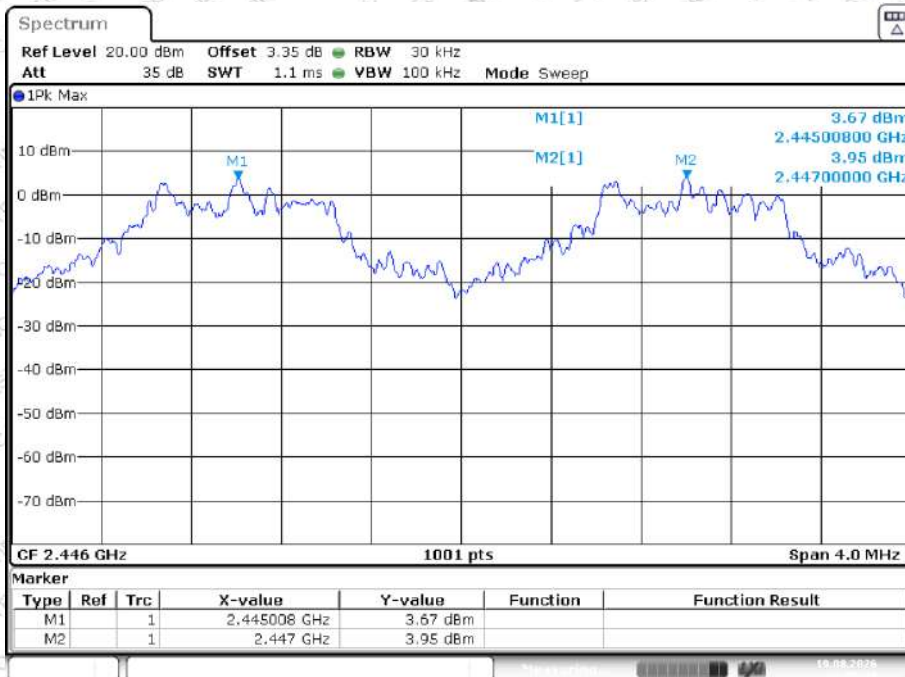


Date: 19.AUG.2026 13:35:42



2413-2479 MHz:

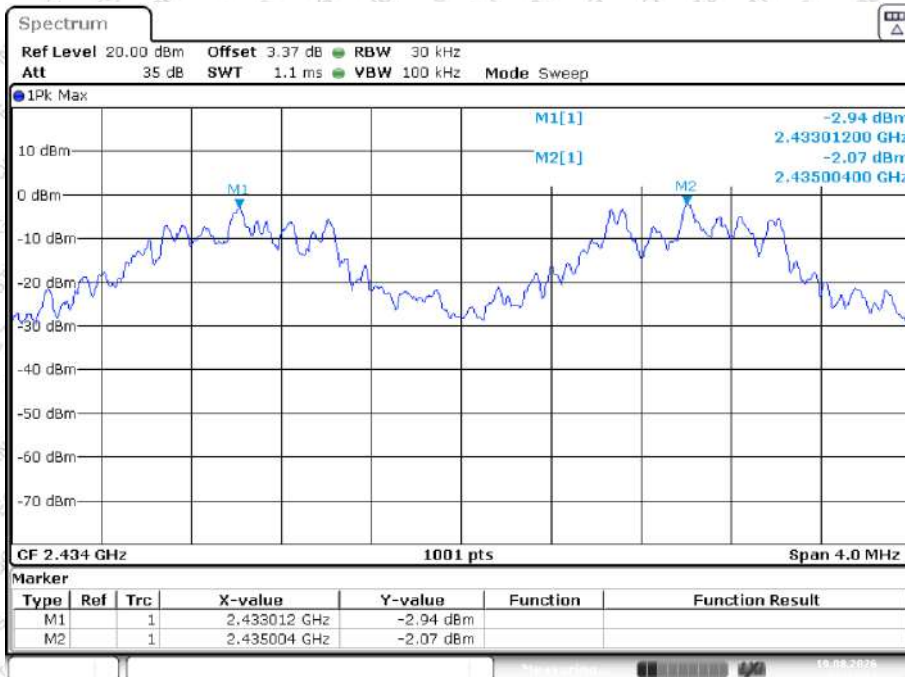
CFS NVNT user 2445MHz Ant1



Date: 19.AUG.2026 12:50:59

2401-2467 MHz:

CFS NVNT user 2433MHz Ant1



Date: 19.AUG.2026 11:43:35

9. Hopping Channel Number

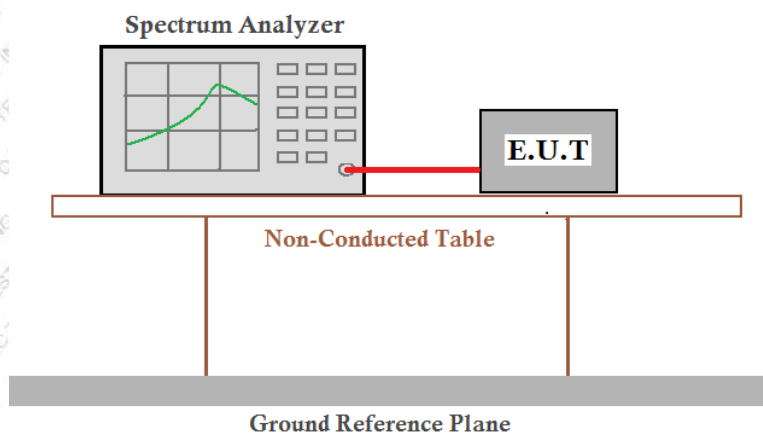
9.1 Applicable Standard

FCC Part15 C Section 15.247 (a) (1) (iii)

9.2 Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

9.3 Test setup



9.4 Test Procedure

1. Check the calibration of the measuring Instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the max-hold function record the quantity of the channel.

9.5 Test Data

Temperature	26.5°C	Humidity	43%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.

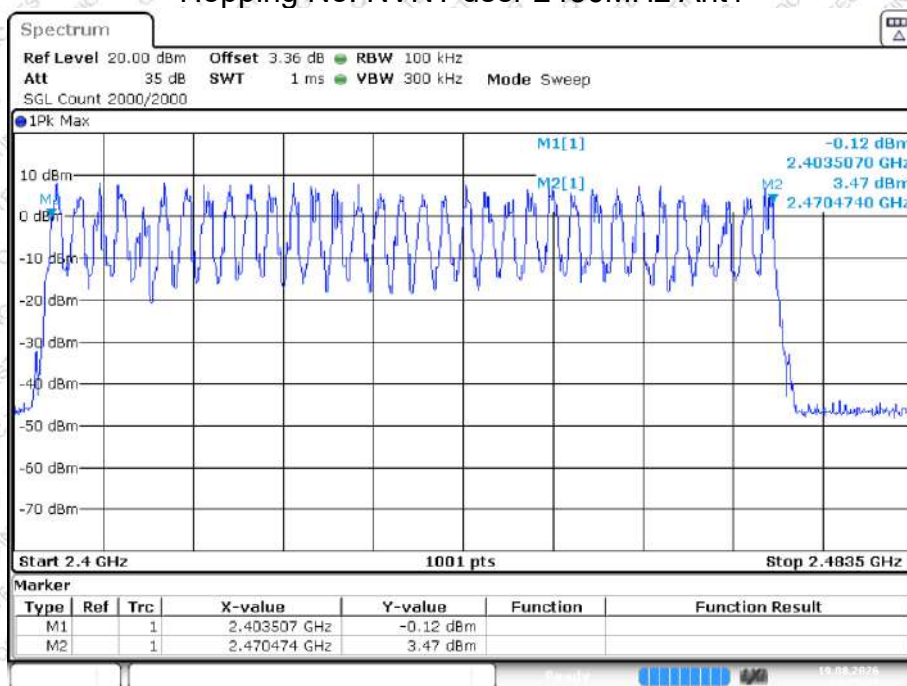


Measurement Data:

Mode	Frequency band (MHz)	Hopping channel numbers	Limit	Result
GFSK	2404-2470	34	>15	Pass
GFSK	2405-2471	34	>15	Pass
GFSK	2412-2478	34	>15	Pass
GFSK	2413-2479	34	>15	Pass
GFSK	2401-2467	34	>15	Pass

2404-2470 MHz:

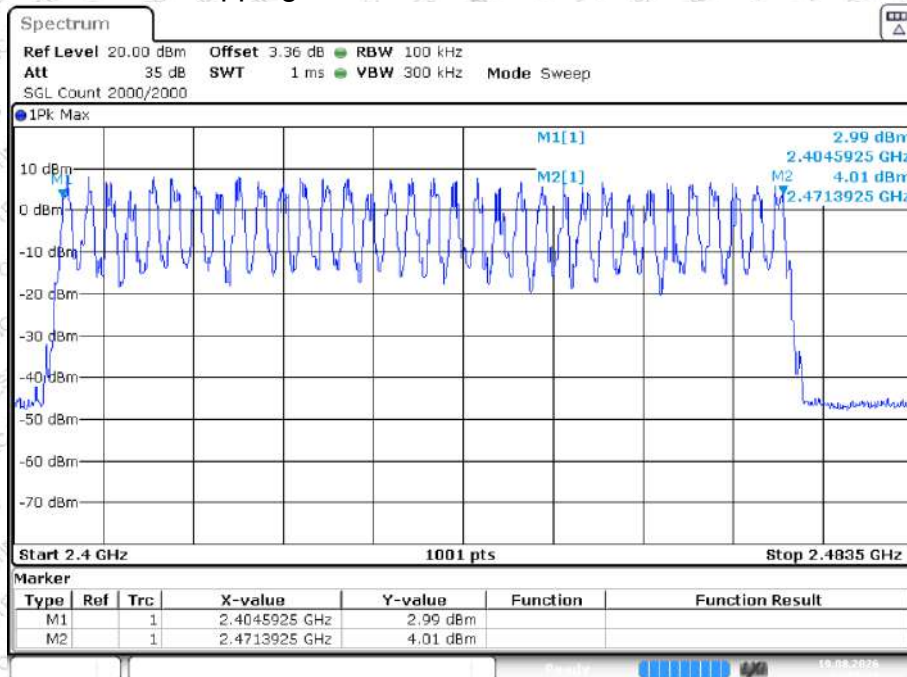
Hopping No. NVNT user 2436MHz Ant1





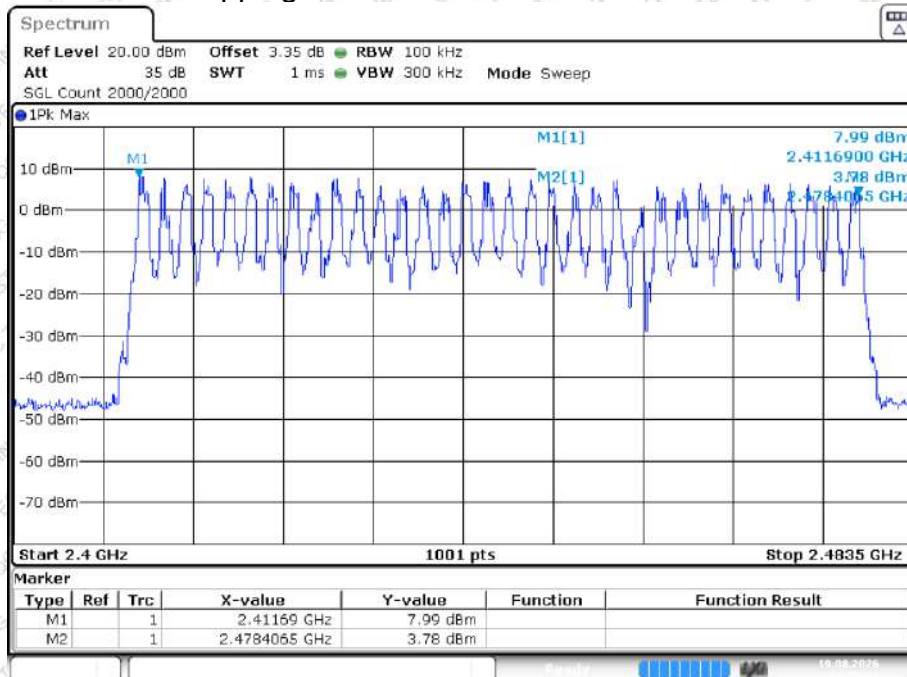
2405-2471 MHz:

Hopping No. NVNT user 2437MHz Ant1



2412-2478 MHz:

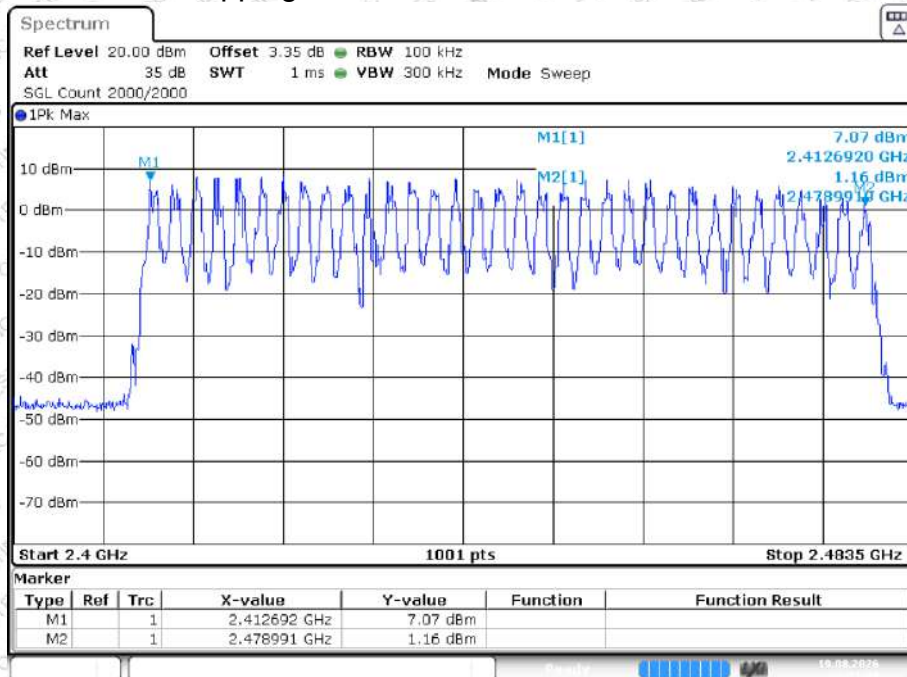
Hopping No. NVNT user 2444MHz Ant1





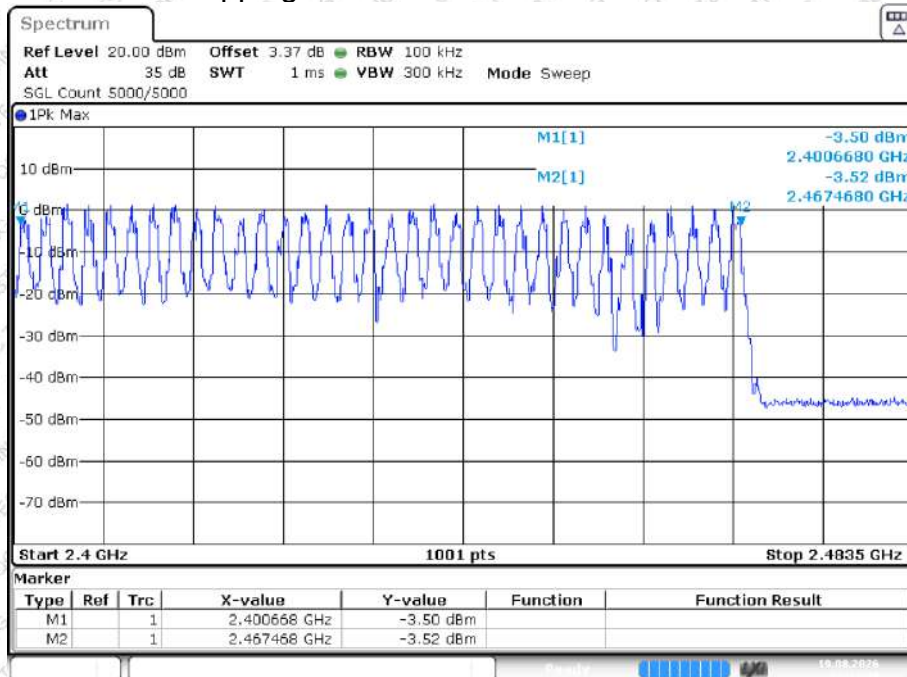
2413-2479 MHz:

Hopping No. NVNT user 2445MHz Ant1



2401-2467 MHz:

Hopping No. NVNT user 2433MHz Ant1



10. Dwell Time

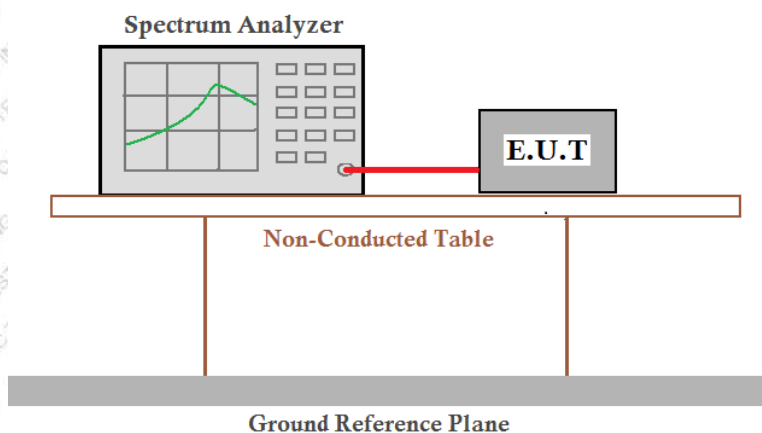
10.1 Applicable Standard

FCC Part15 C Section 15.247 (a)(1)(iii)

10.2 Limit

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.3 Test setup



10.4 Test Data

Temperature	26.5°C	Humidity	43%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Please refer to following table and plots.

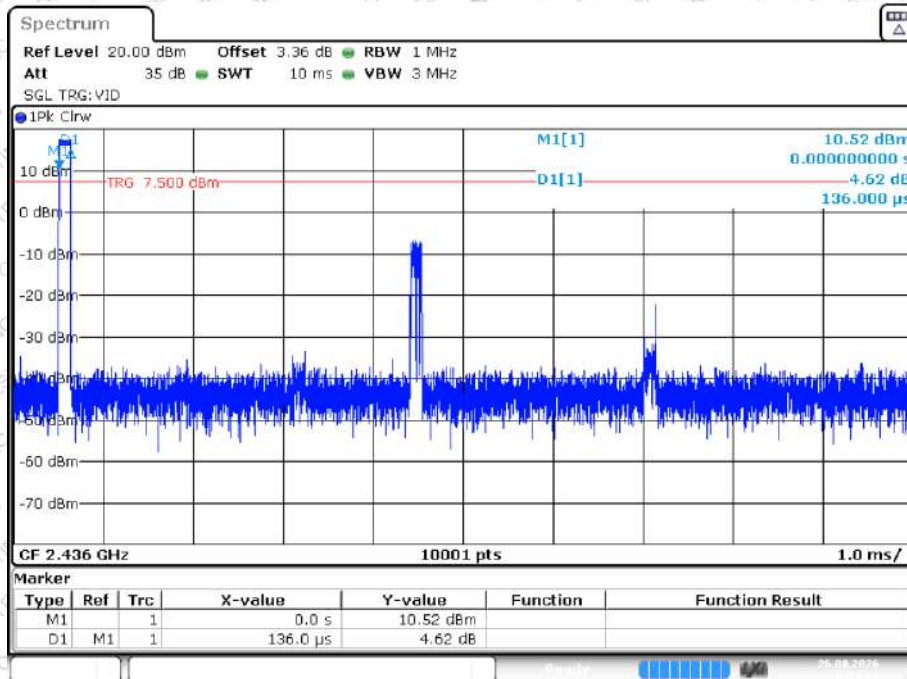


Frequency band (MHz)	Channel	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Limit (ms)	Verdict
2404-2470	Hop	0.136	41.752	307	<=400	Pass
2405-2471	Hop	0.136	41.616	306	<=400	Pass
2412-2478	Hop	0.136	41.616	306	<=400	Pass
2413-2479	Hop	0.136	41.752	307	<=400	Pass
2401-2467	Hop	0.136	20.808	153	<=400	Pass

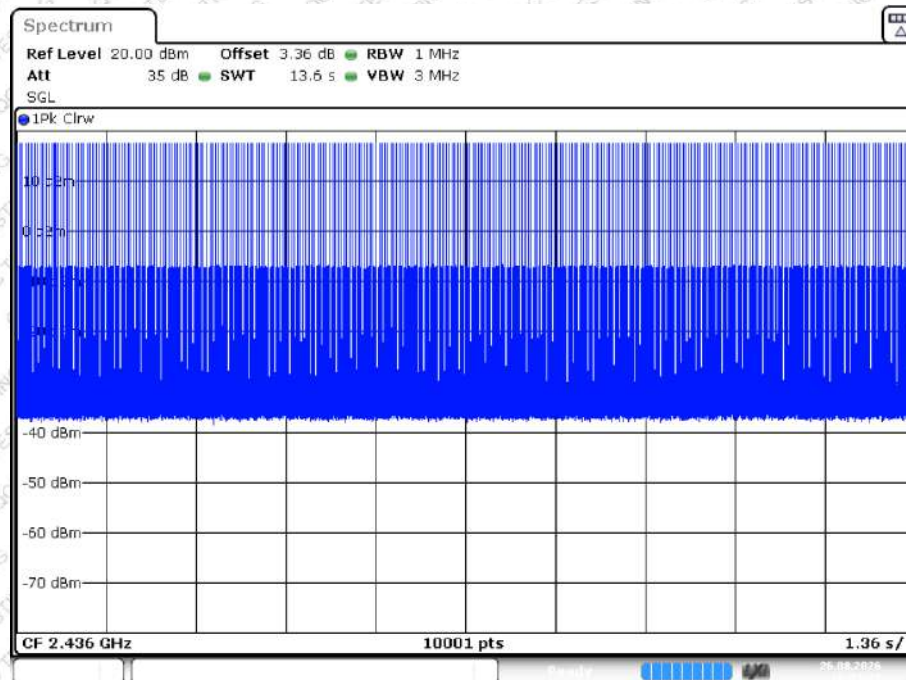


2404-2470 MHz:

Dwell NVNT user 2436MHz Ant1 One Burst



Dwell NVNT user 2436MHz Ant1 Accumulated

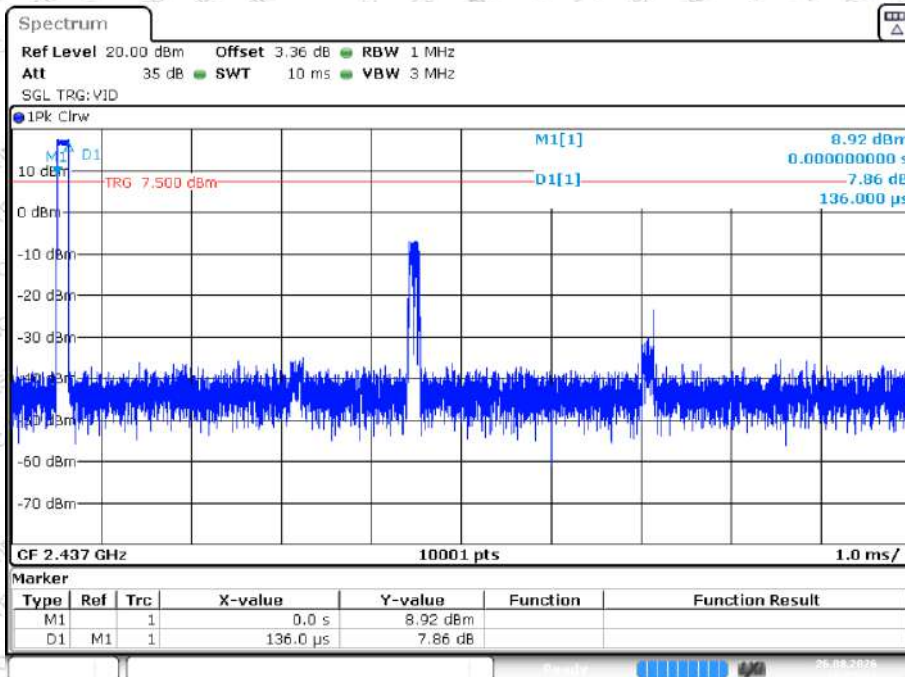


Date: 26.AUG.2026 18:51:26

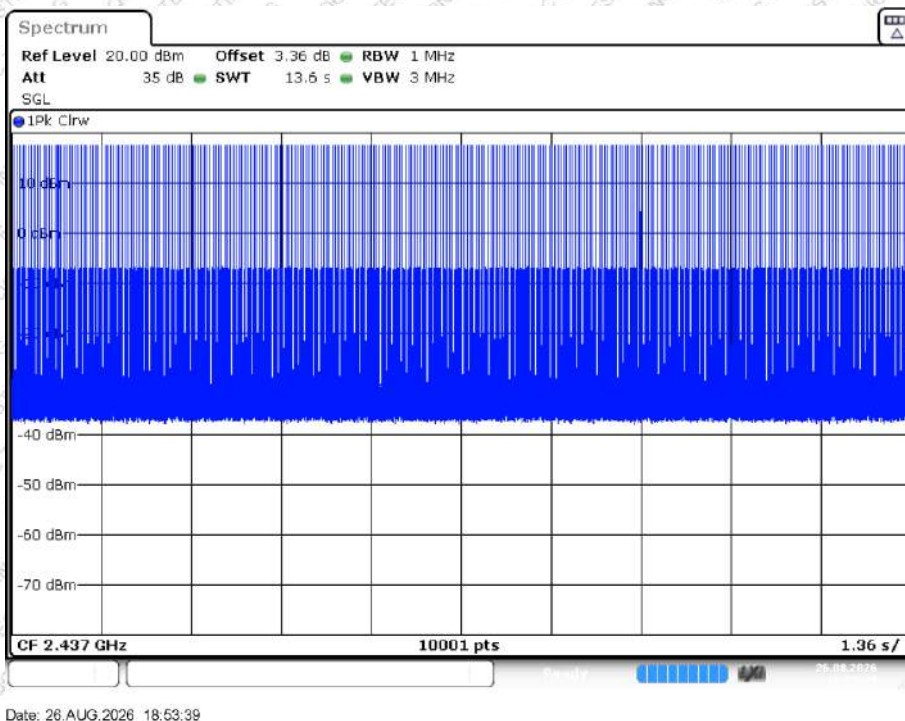


2405-2471 MHz:

Dwell NVNT user 2437MHz Ant1 One Burst



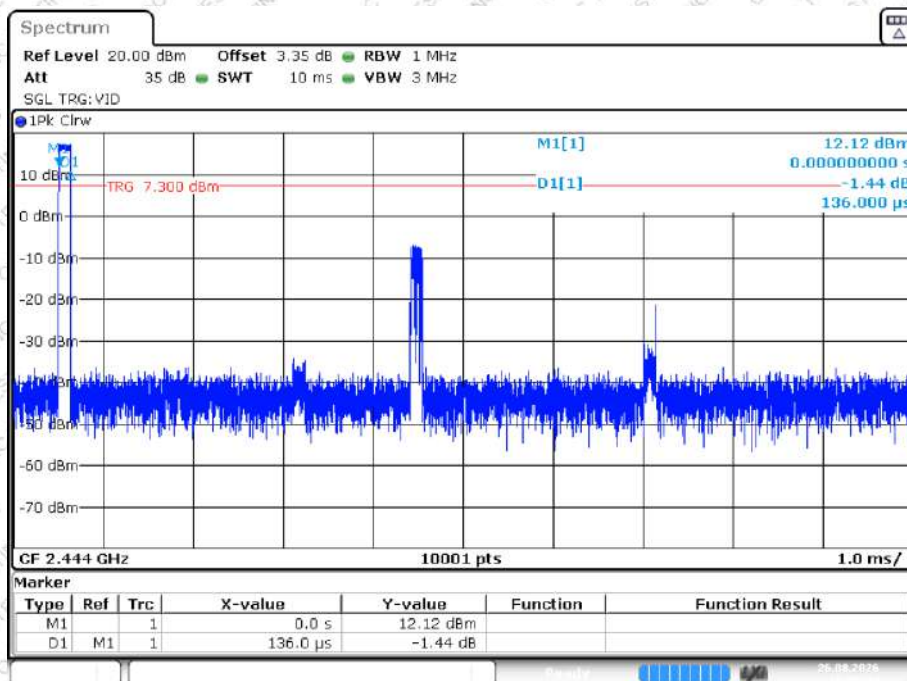
Dwell NVNT user 2437MHz Ant1 Accumulated



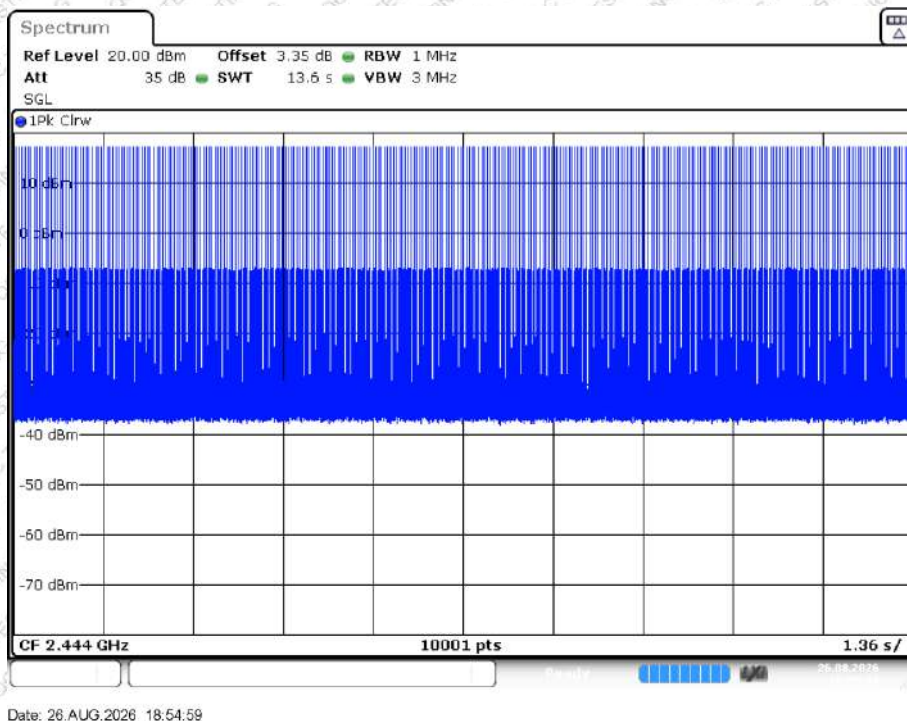


2412-2478 MHz:

Dwell NVNT user 2444MHz Ant1 One Burst



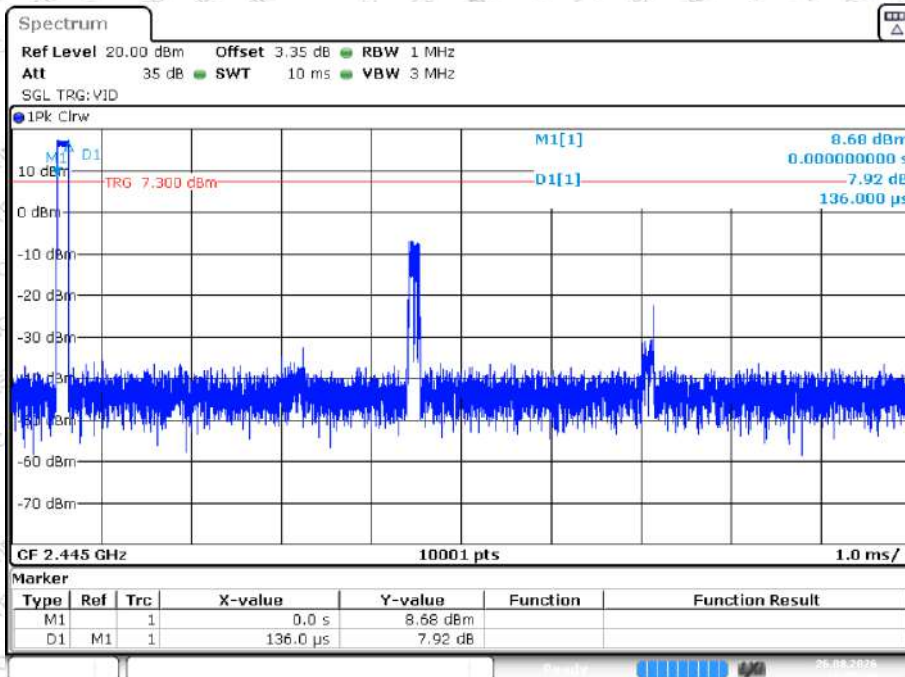
Dwell NVNT user 2444MHz Ant1 Accumulated



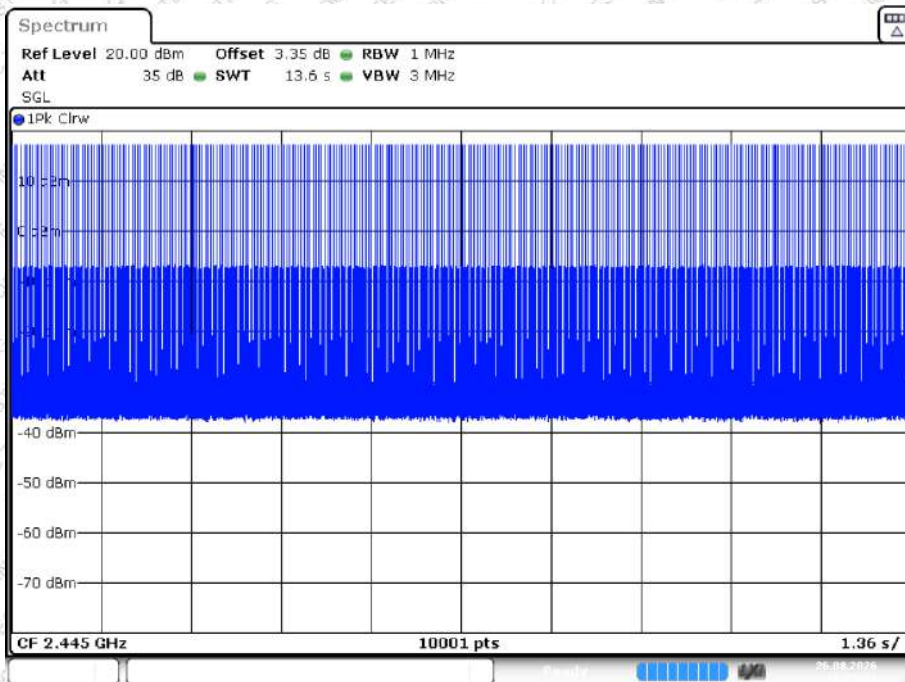


2413-2479 MHz:

Dwell NVNT user 2445MHz Ant1 One Burst



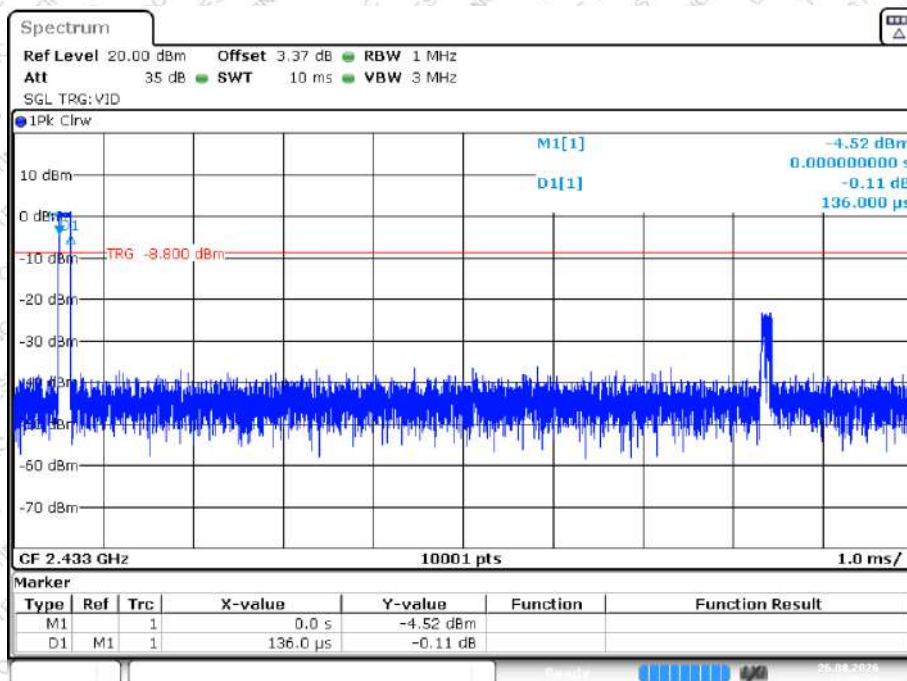
Dwell NVNT user 2445MHz Ant1 Accumulated



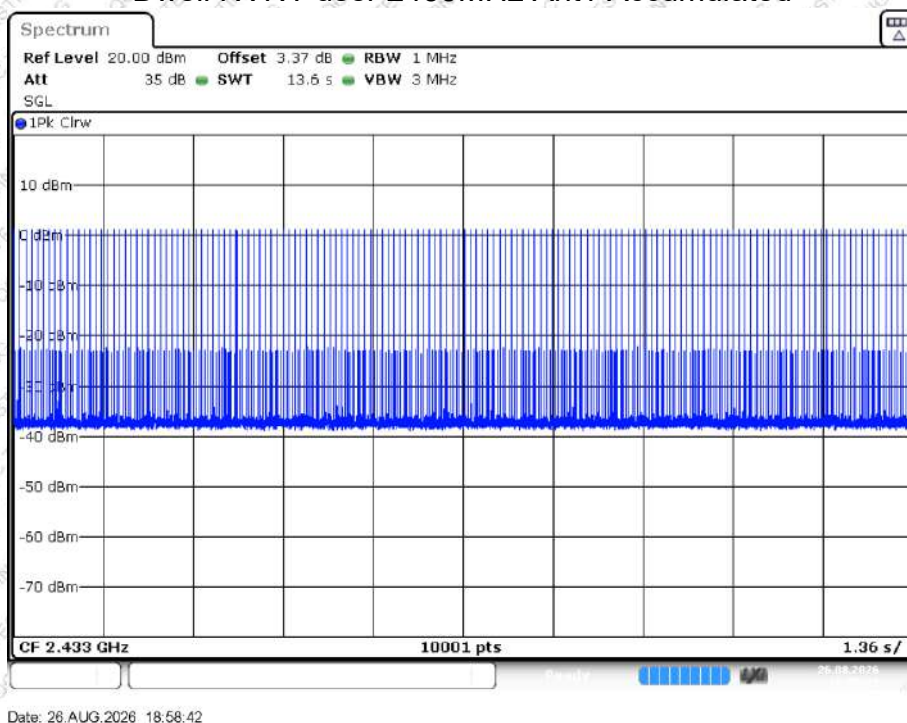


2401-2467 MHz:

Dwell NVNT user 2433MHz Ant1 One Burst



Dwell NVNT user 2433MHz Ant1 Accumulated



11. Spurious Emission in Non-restricted & restricted Bands

11.1 Conducted Emission Method

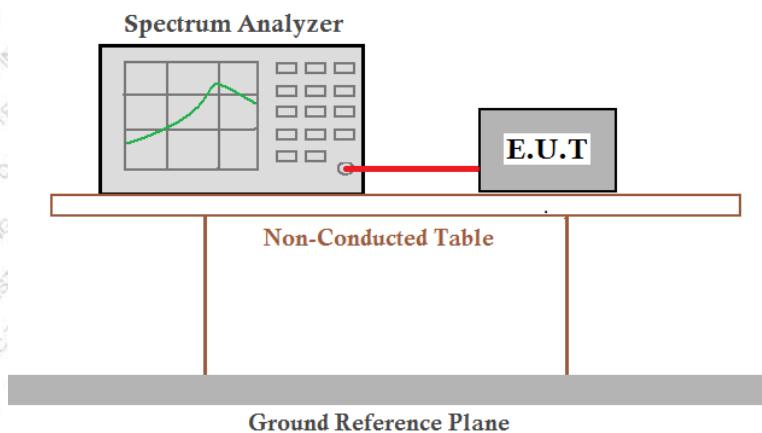
11.1.1 Applicable Standard

FCC Part15 C Section 15.247 (d)

11.1.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

11.1.3 Test setup



11.1.4 Test Procedure

- Check the calibration of the measuring Instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement Instrument. Turn on the EUT and connect its antenna terminal to measurement Instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the Instrument is operated in its linear range.
- Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- Repeat above procedures until all measured frequencies were complete.

11.1.5 Test Data

Temperature	26.5°C	Humidity	43%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Please refer to following plots.



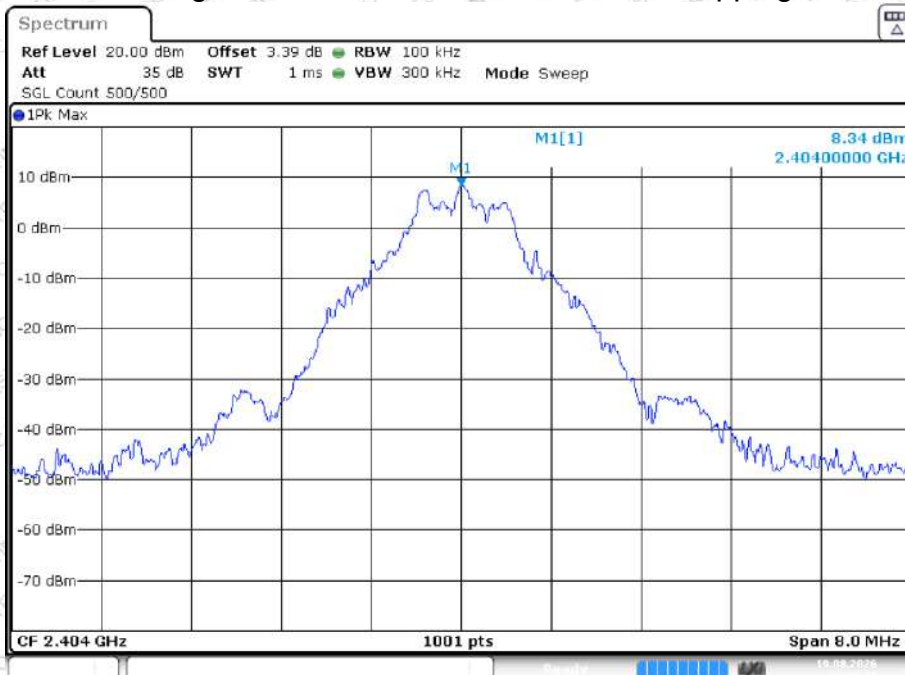
Band Edge:

Frequency band (MHz)	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
2404-2470	2404	No-Hopping	-53.46	-20	Pass
	2470	No-Hopping	-52.65	-20	Pass
2405-2471	2405	No-Hopping	-54.01	-20	Pass
	2471	No-Hopping	-52.14	-20	Pass
2412-2478	2412	No-Hopping	-52.96	-20	Pass
	2478	No-Hopping	-51.93	-20	Pass
2413-2479	2413	No-Hopping	-53.24	-20	Pass
	2479	No-Hopping	-52.27	-20	Pass
2401-2467	2401	No-Hopping	-52.88	-20	Pass
	2467	No-Hopping	-47	-20	Pass



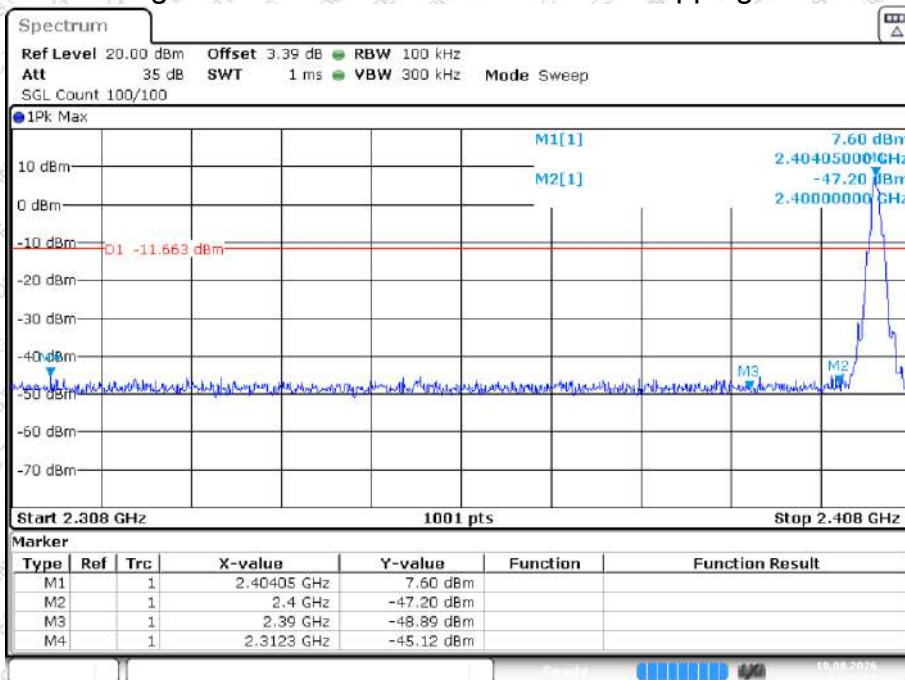
2404-2470 MHz:

Band Edge NVNT user 2404MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 13:19:17

Band Edge NVNT user 2404MHz Ant1 No-Hopping Emission



Date: 19.AUG.2026 13:19:19

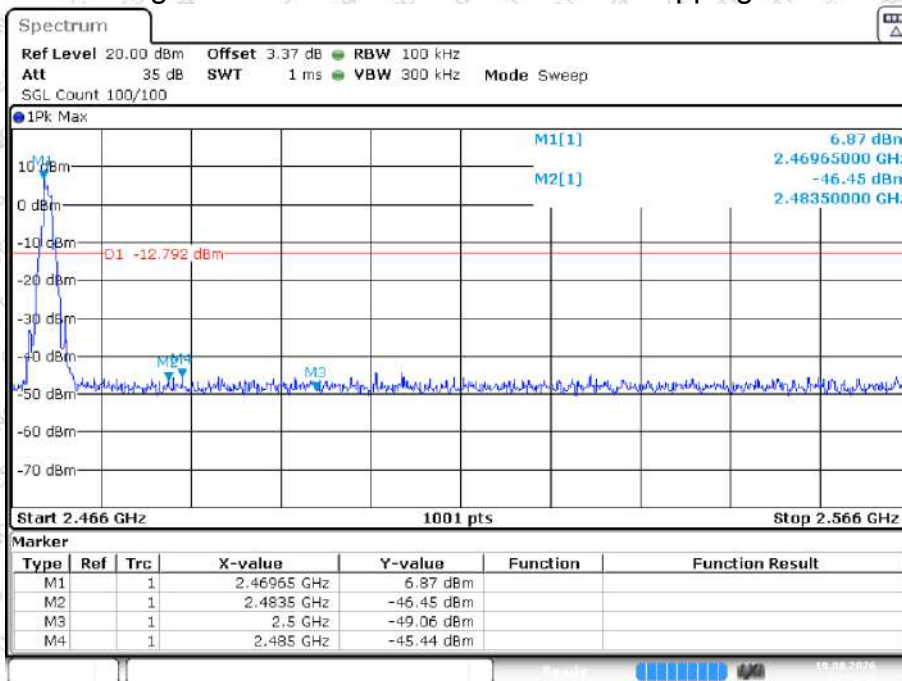


Band Edge NVNT user 2470MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 13:26:55

Band Edge NVNT user 2470MHz Ant1 No-Hopping Emission

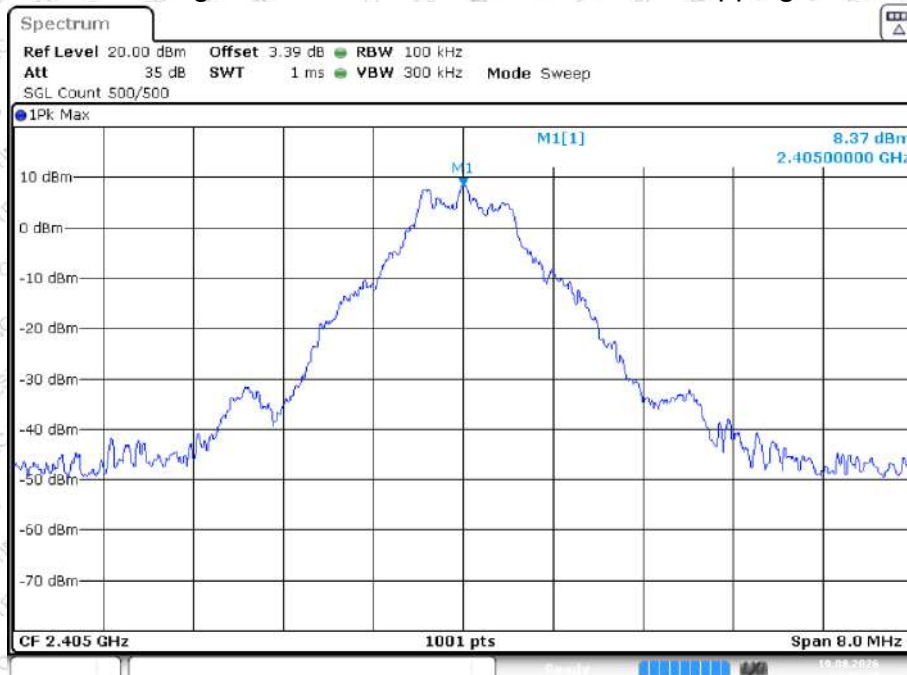


Date: 19.AUG.2026 13:26:58



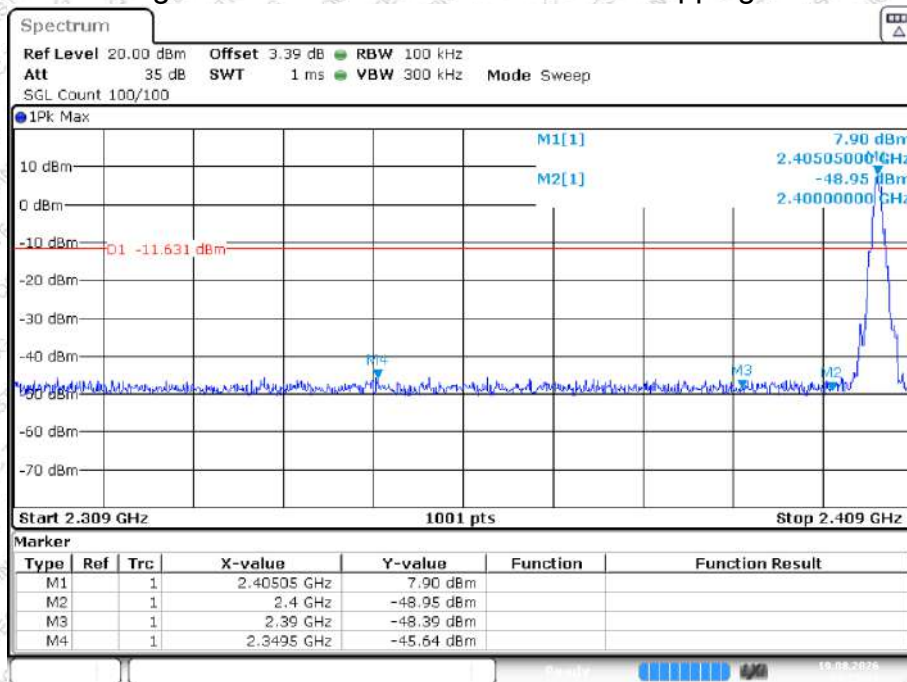
2405-2471 MHz:

Band Edge NVNT user 2405MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 14:32:40

Band Edge NVNT user 2405MHz Ant1 No-Hopping Emission



Date: 19.AUG.2026 14:32:42

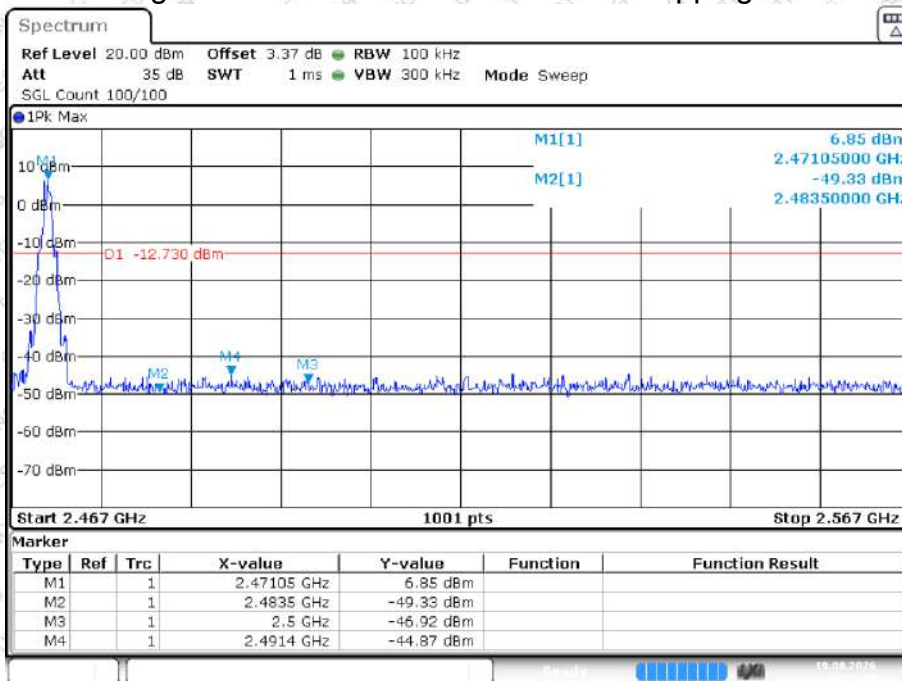


Band Edge NVNT user 2471MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 14:28:44

Band Edge NVNT user 2471MHz Ant1 No-Hopping Emission

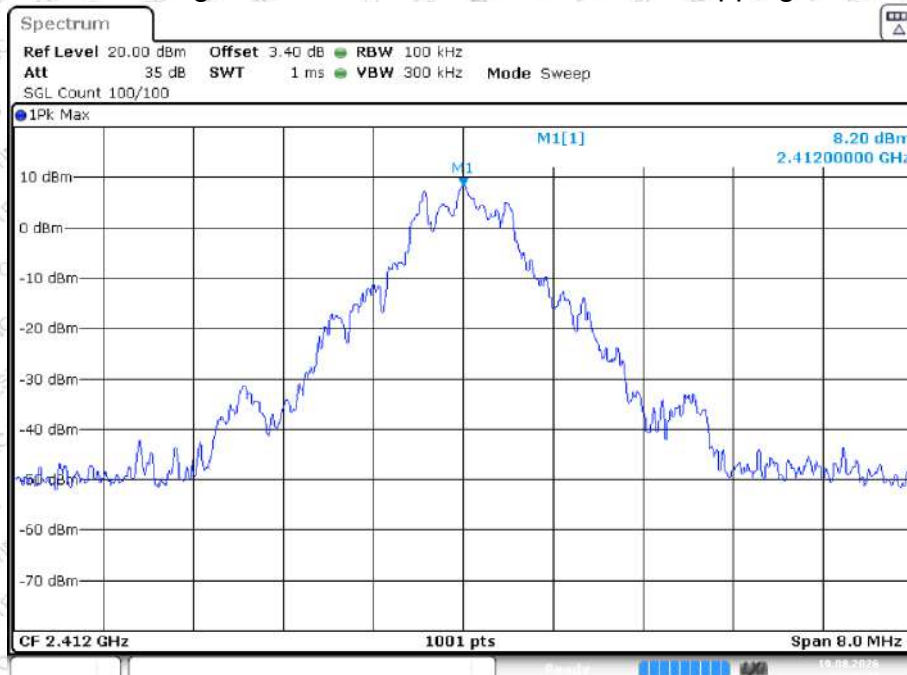


Date: 19.AUG.2026 14:28:45



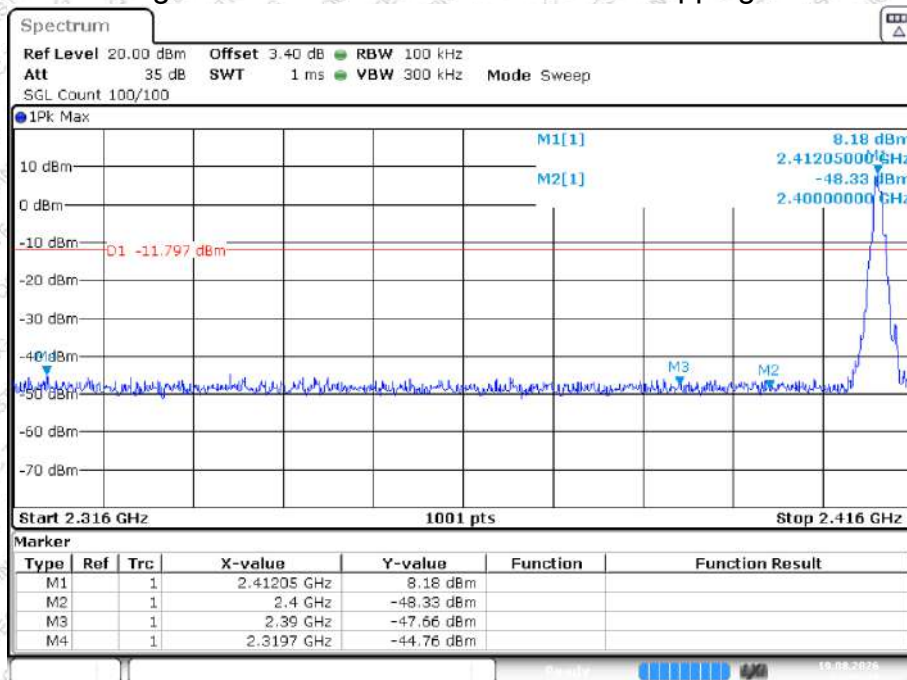
2412-2478 MHz:

Band Edge NVNT user 2412MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 13:40:49

Band Edge NVNT user 2412MHz Ant1 No-Hopping Emission



Date: 19.AUG.2026 13:40:51

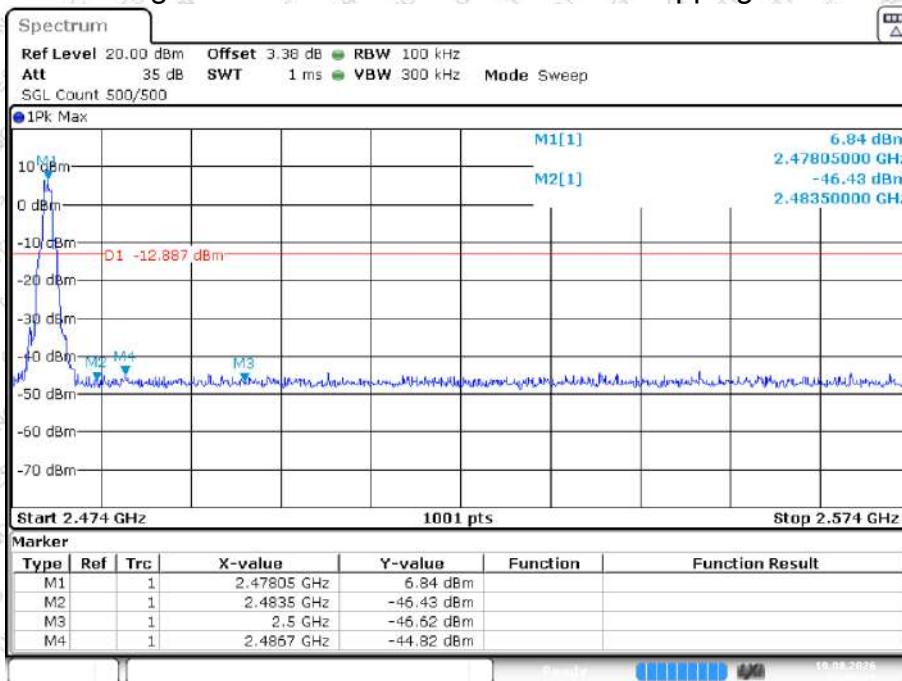


Band Edge NVNT user 2478MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 13:48:30

Band Edge NVNT user 2478MHz Ant1 No-Hopping Emission

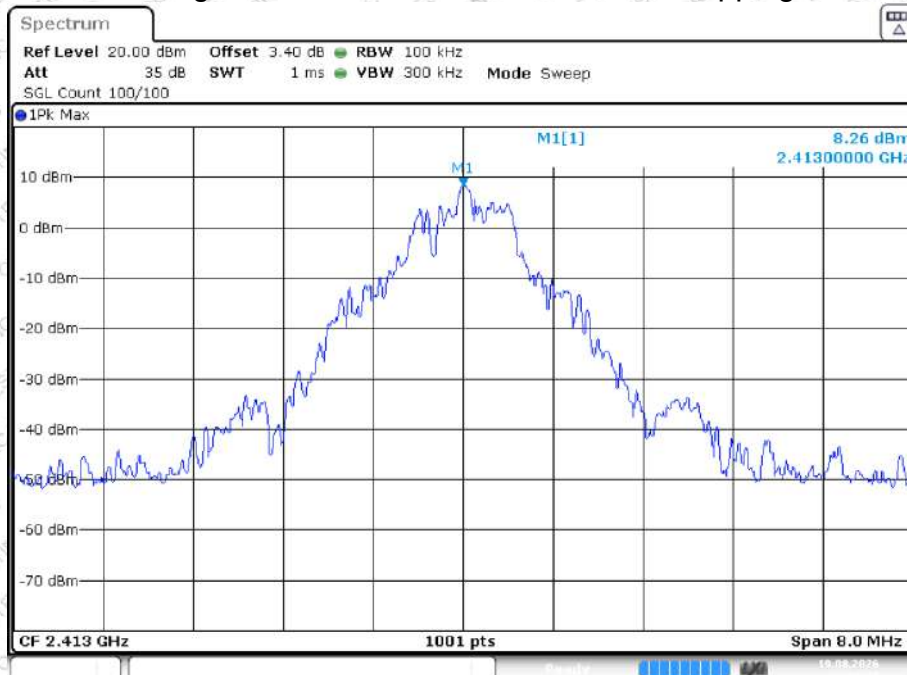


Date: 19.AUG.2026 13:48:32



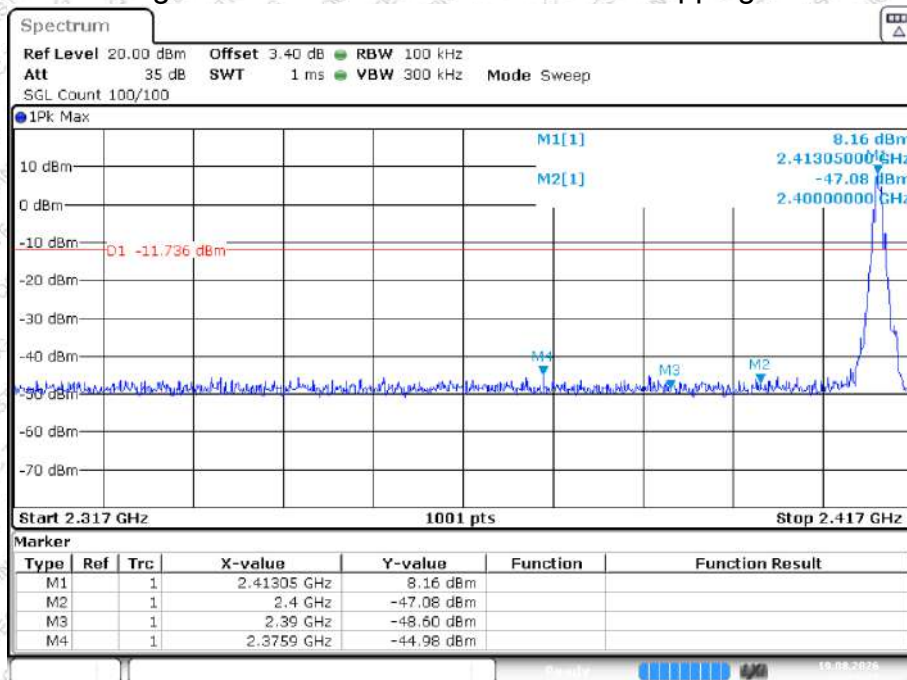
2413-2479 MHz:

Band Edge NVNT user 2413MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 12:38:35

Band Edge NVNT user 2413MHz Ant1 No-Hopping Emission



Date: 19.AUG.2026 12:38:37

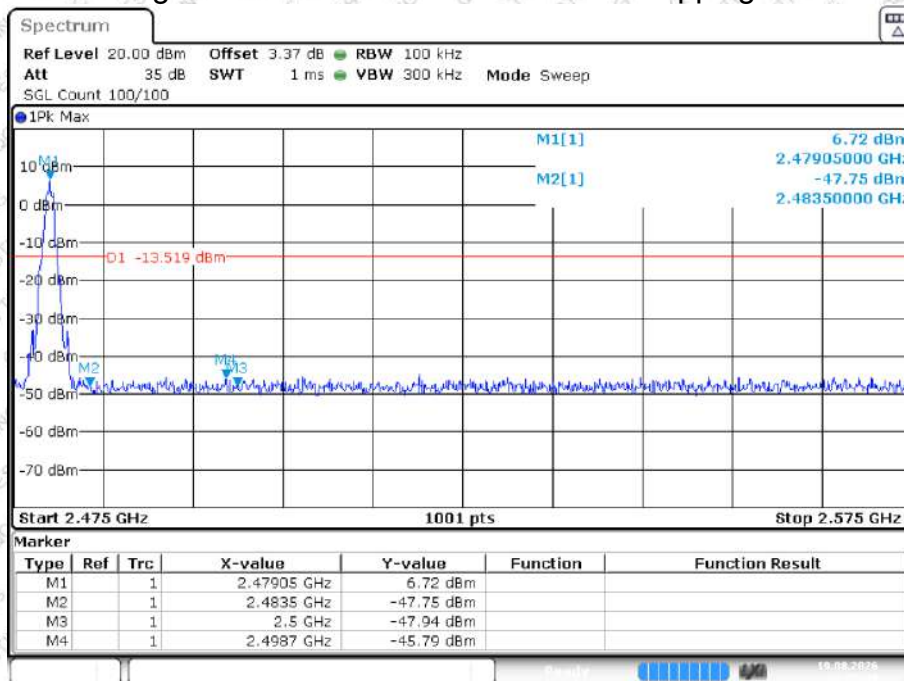


Band Edge NVNT user 2479MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 12:47:28

Band Edge NVNT user 2479MHz Ant1 No-Hopping Emission

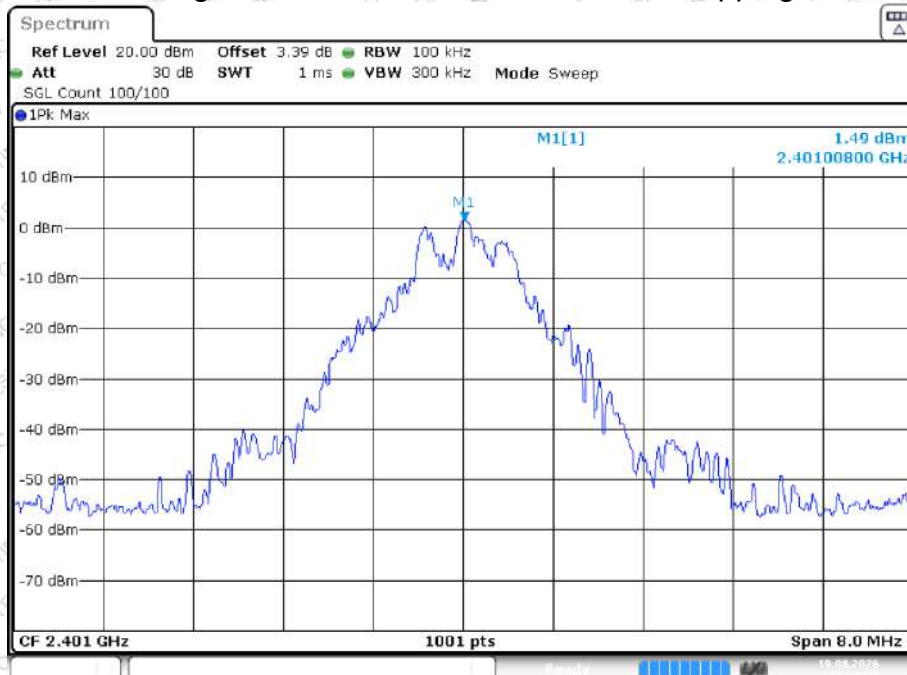


Date: 19.AUG.2026 12:47:30



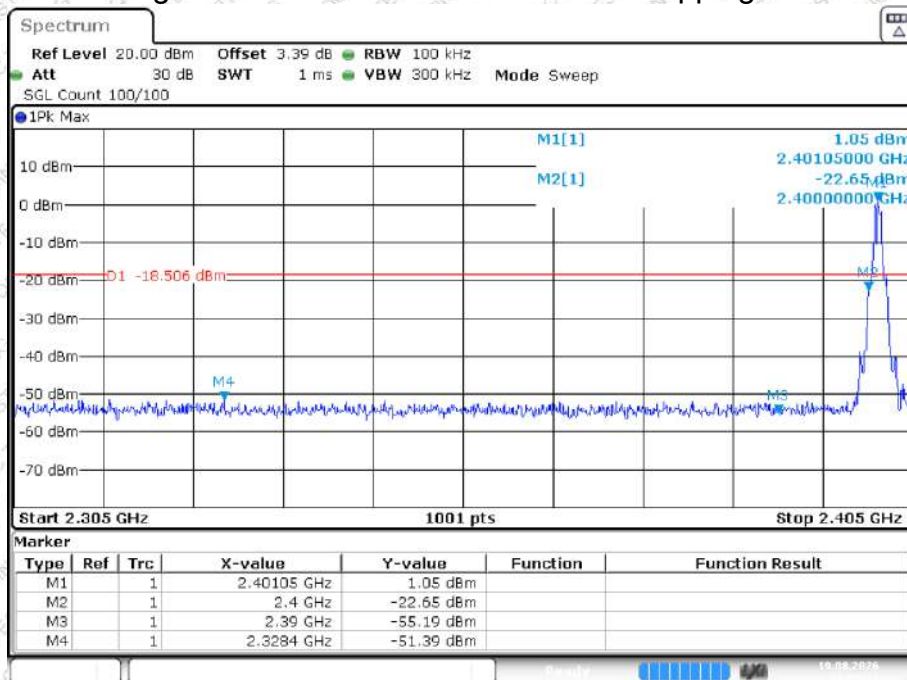
2401-2467 MHz:

Band Edge NVNT user 2401MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 11:12:39

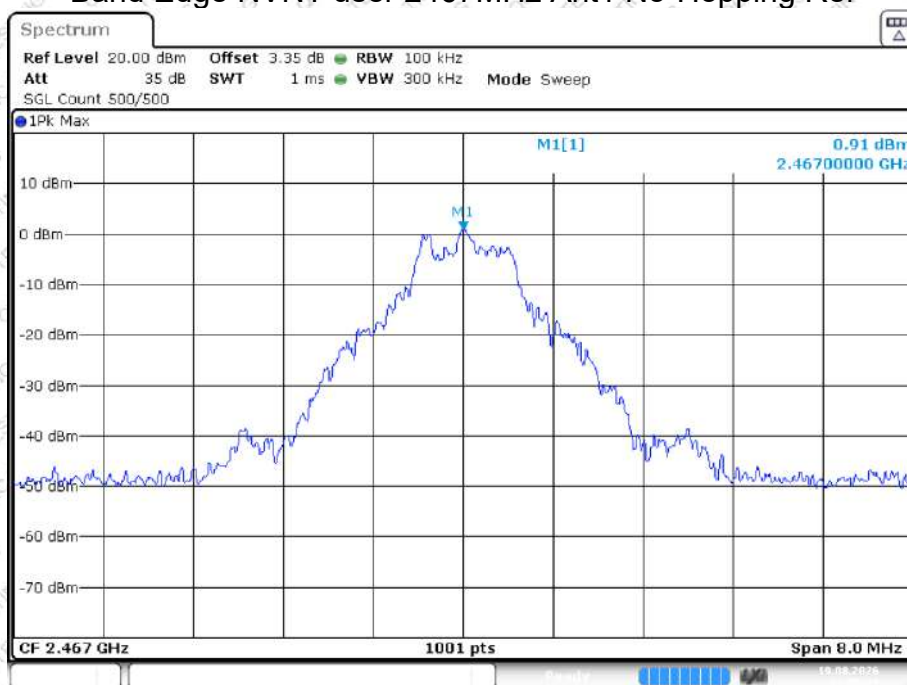
Band Edge NVNT user 2401MHz Ant1 No-Hopping Emission



Date: 19.AUG.2026 11:12:41

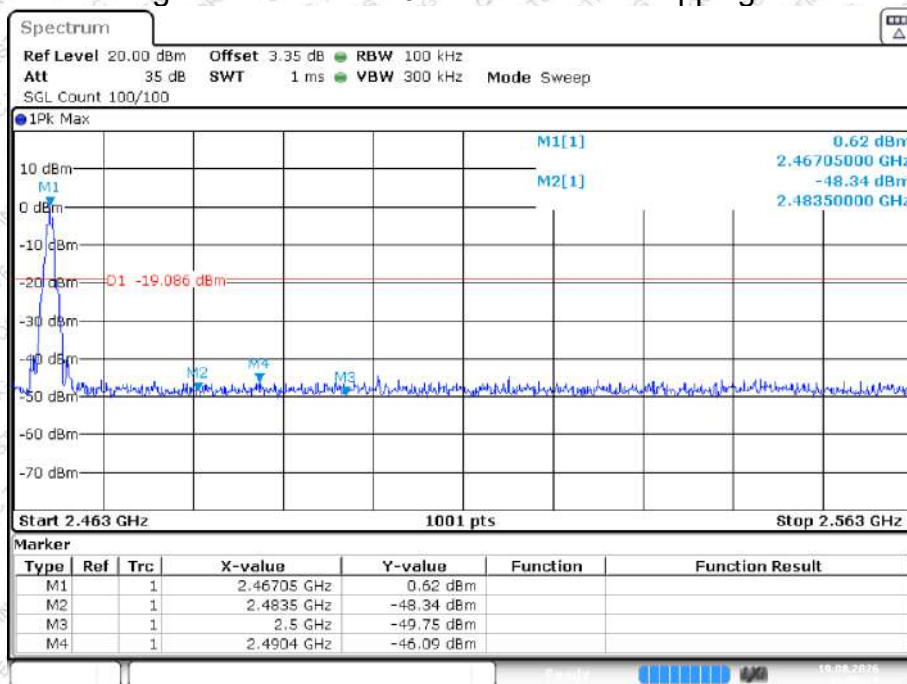


Band Edge NVNT user 2467MHz Ant1 No-Hopping Ref



Date: 19.AUG.2026 11:56:21

Band Edge NVNT user 2467MHz Ant1 No-Hopping Emission



Date: 19.AUG.2026 11:56:23



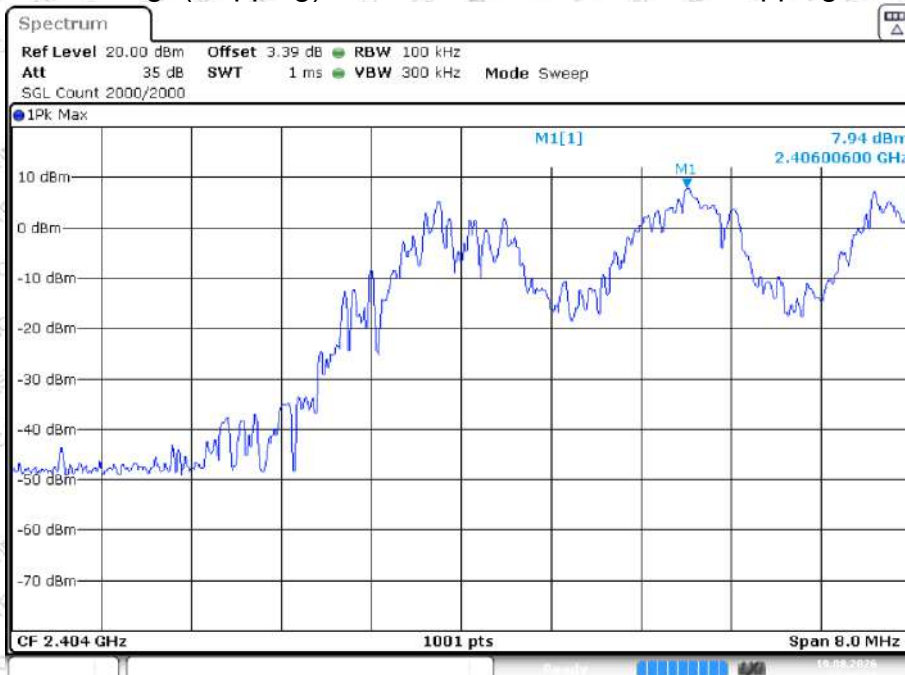
Band Edge(Hopping):

Frequency band (MHz)	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
2404-2470	2404	Hopping	-52.31	-20	Pass
	2470	Hopping	-51.23	-20	Pass
2405-2471	2405	Hopping	-51.15	-20	Pass
	2471	Hopping	-51.97	-20	Pass
2412-2478	2412	Hopping	-52.12	-20	Pass
	2478	Hopping	-57.42	-20	Pass
2413-2479	2413	Hopping	-51.91	-20	Pass
	2479	Hopping	-51.01	-20	Pass
2401-2467	2401	Hopping	-44.58	-20	Pass
	2467	Hopping	-49.84	-20	Pass



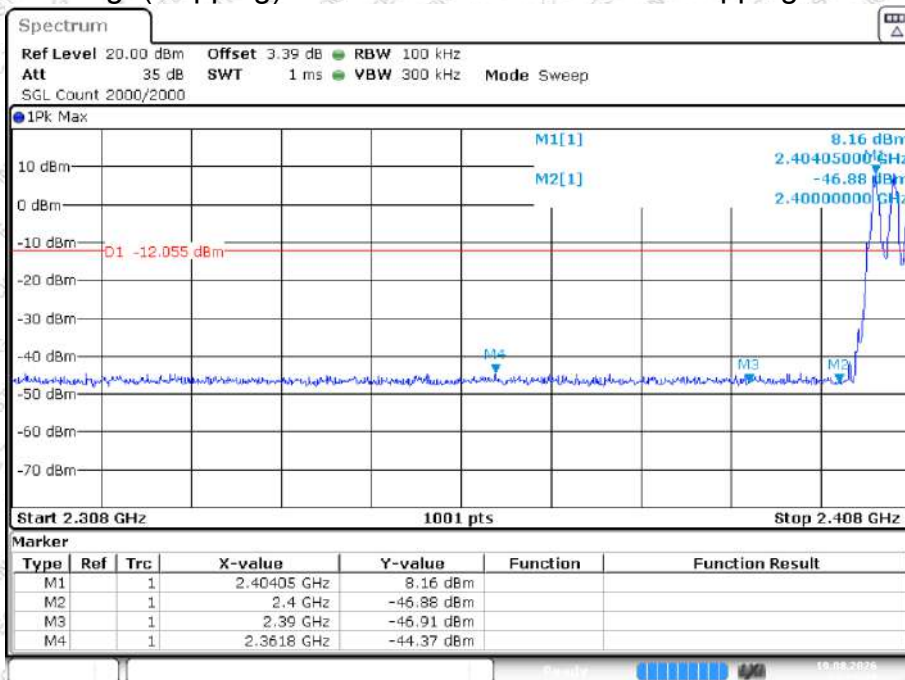
2404-2470 MHz:

Band Edge(Hopping) NVNT user 2404MHz Ant1 Hopping Ref



Date: 19.AUG.2026 13:13:29

Band Edge(Hopping) NVNT user 2404MHz Ant1 Hopping Emission



Date: 19.AUG.2026 13:13:39

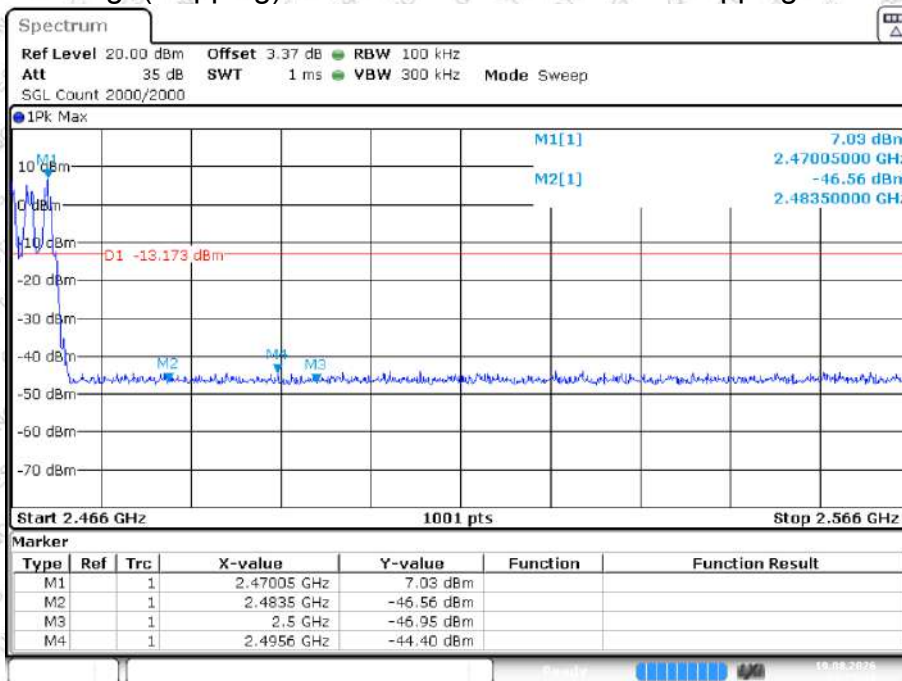


Band Edge(Hopping) NVNT user 2470MHz Ant1 Hopping Ref



Date: 19.AUG.2026 13:15:53

Band Edge(Hopping) NVNT user 2470MHz Ant1 Hopping Emission

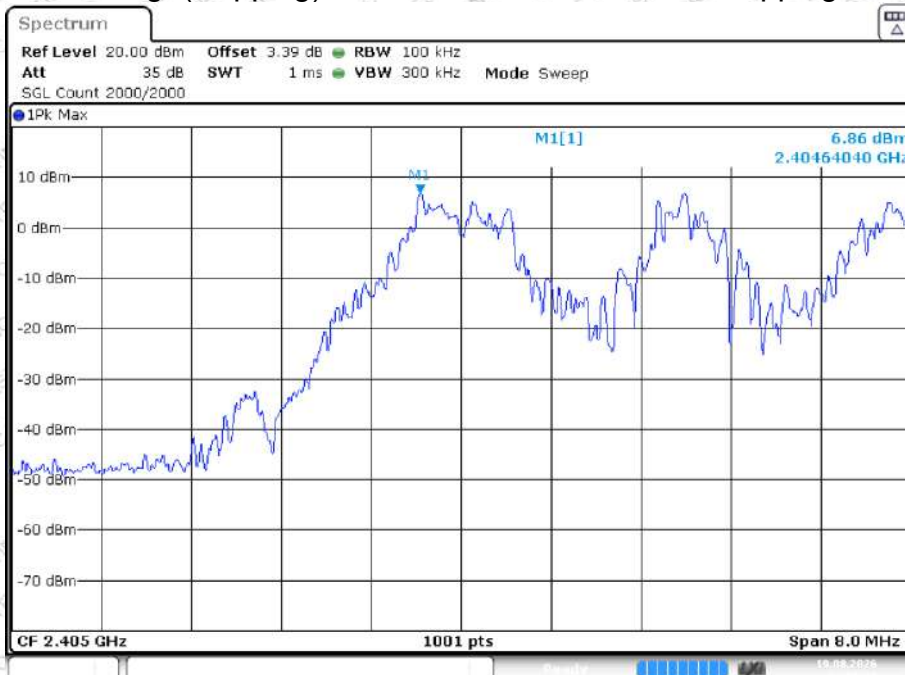


Date: 19.AUG.2026 13:15:58



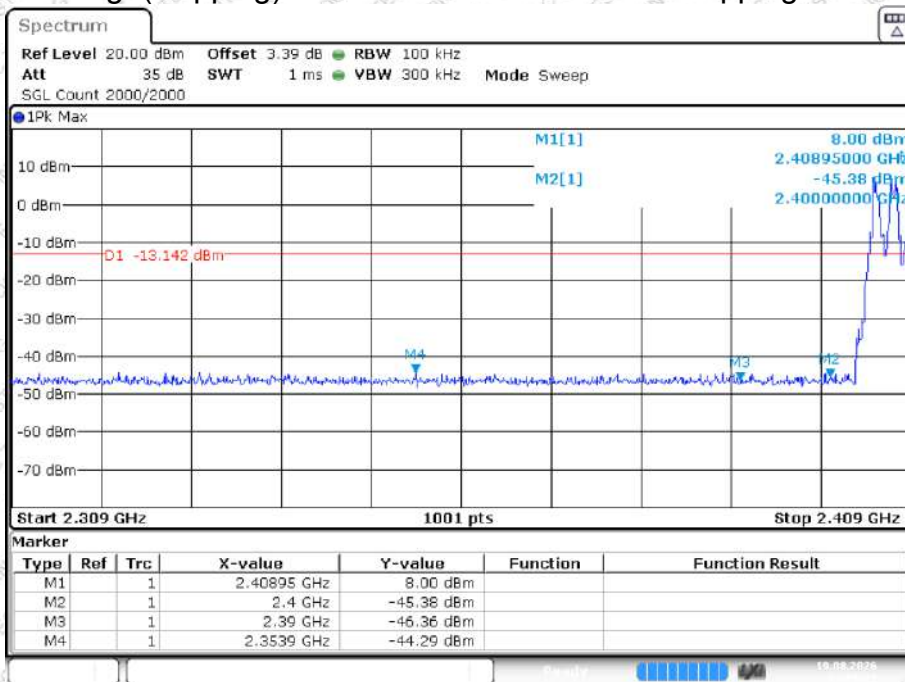
2405-2471 MHz:

Band Edge(Hopping) NVNT user 2405MHz Ant1 Hopping Ref



Date: 19.AUG.2026 14:06:32

Band Edge(Hopping) NVNT user 2405MHz Ant1 Hopping Emission



Date: 19.AUG.2026 14:06:42

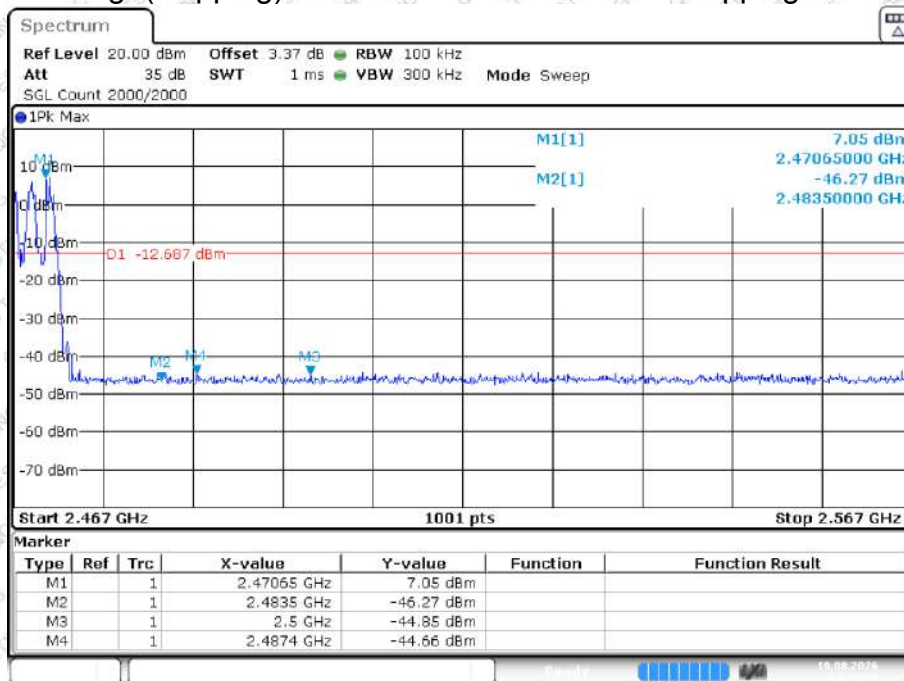


Band Edge(Hopping) NVNT user 2471MHz Ant1 Hopping Ref



Date: 19.AUG.2026 14:17:47

Band Edge(Hopping) NVNT user 2471MHz Ant1 Hopping Emission



Date: 19.AUG.2026 14:17:52



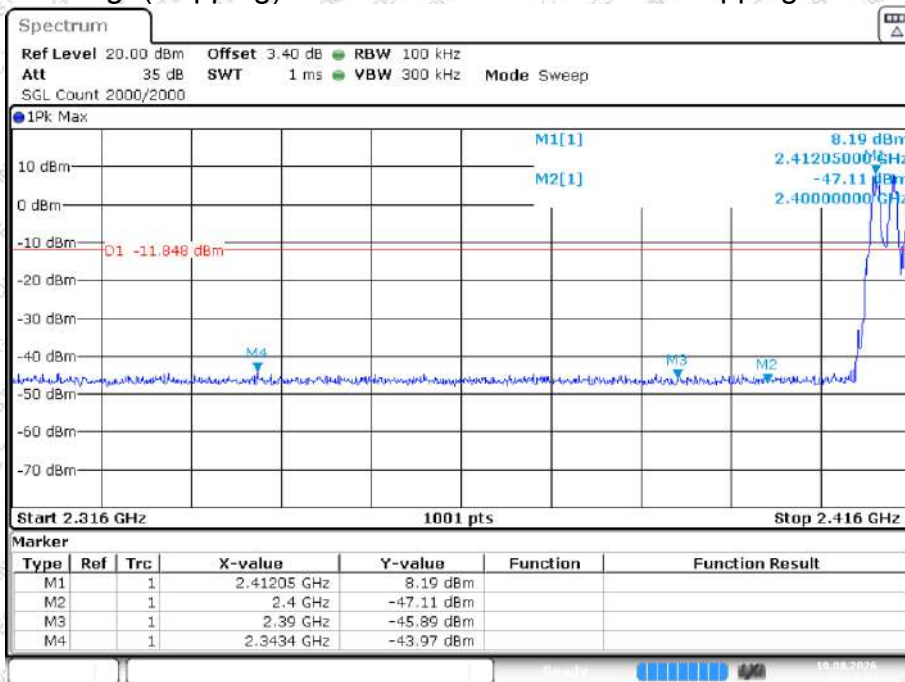
2412-2478 MHz:

Band Edge(Hopping) NVNT user 2412MHz Ant1 Hopping Ref



Date: 19.AUG.2026 13:34:44

Band Edge(Hopping) NVNT user 2412MHz Ant1 Hopping Emission



Date: 19.AUG.2026 13:34:55

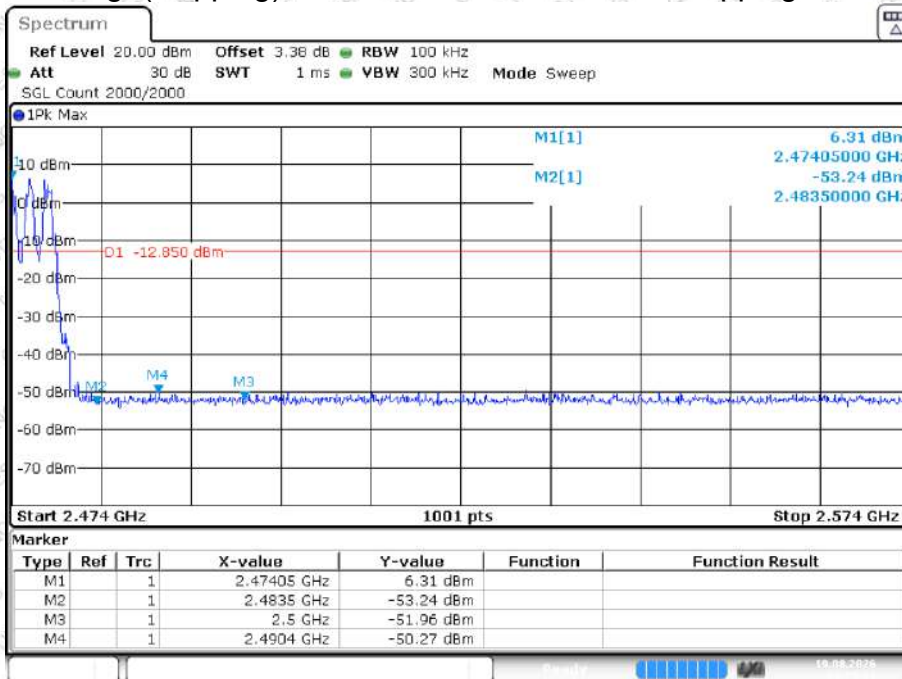


Band Edge(Hopping) NVNT user 2478MHz Ant1 Hopping Ref



Date: 19.AUG.2026 13:37:08

Band Edge(Hopping) NVNT user 2478MHz Ant1 Hopping Emission



Date: 19.AUG.2026 13:37:14



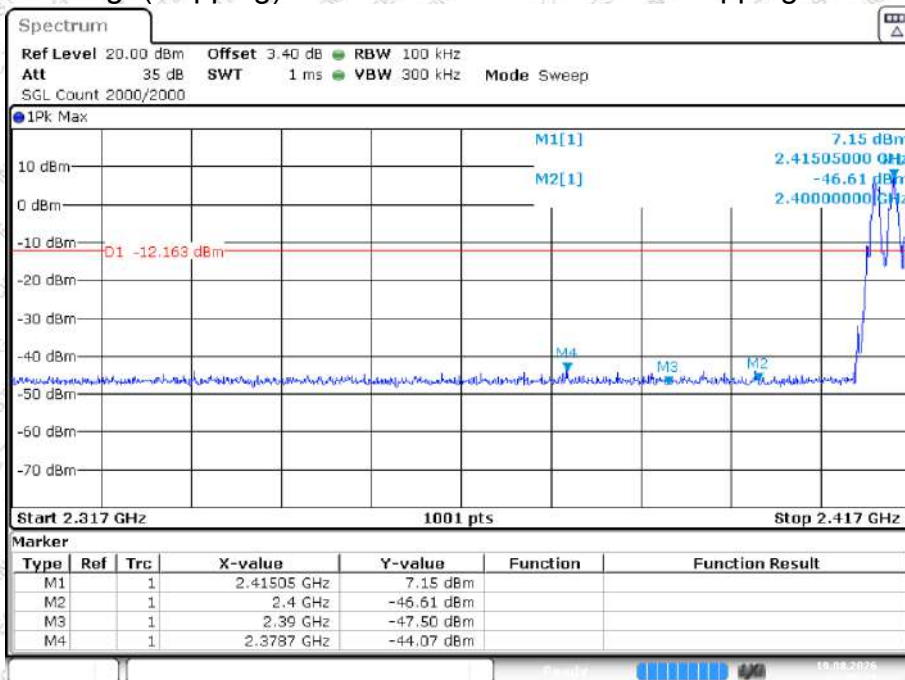
2413-2479 MHz:

Band Edge(Hopping) NVNT user 2413MHz Ant1 Hopping Ref



Date: 19.AUG.2026 12:50:12

Band Edge(Hopping) NVNT user 2413MHz Ant1 Hopping Emission



Date: 19.AUG.2026 12:50:23

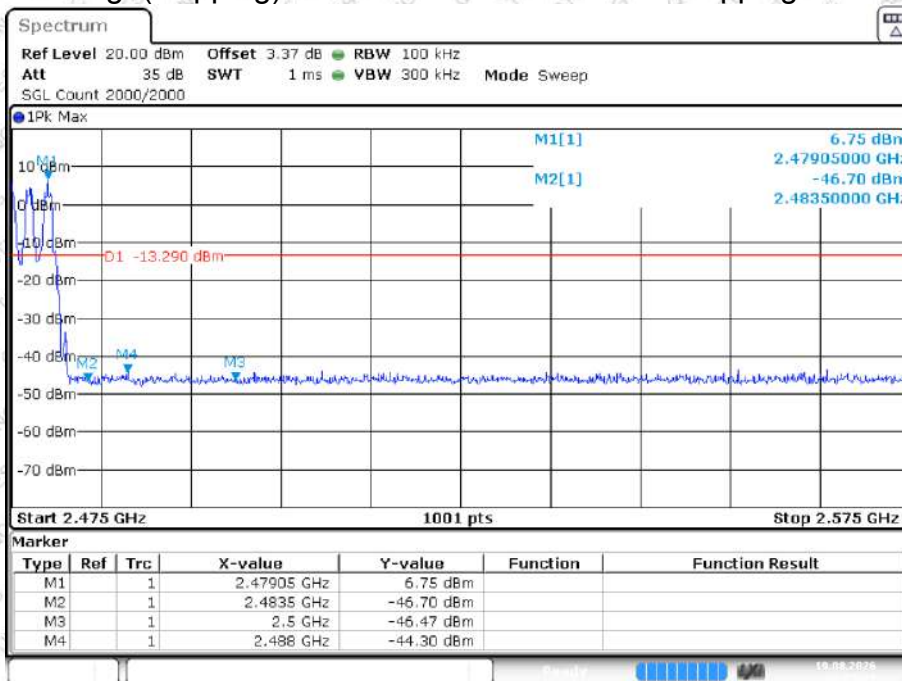


Band Edge(Hopping) NVNT user 2479MHz Ant1 Hopping Ref



Date: 19.AUG.2026 12:52:56

Band Edge(Hopping) NVNT user 2479MHz Ant1 Hopping Emission

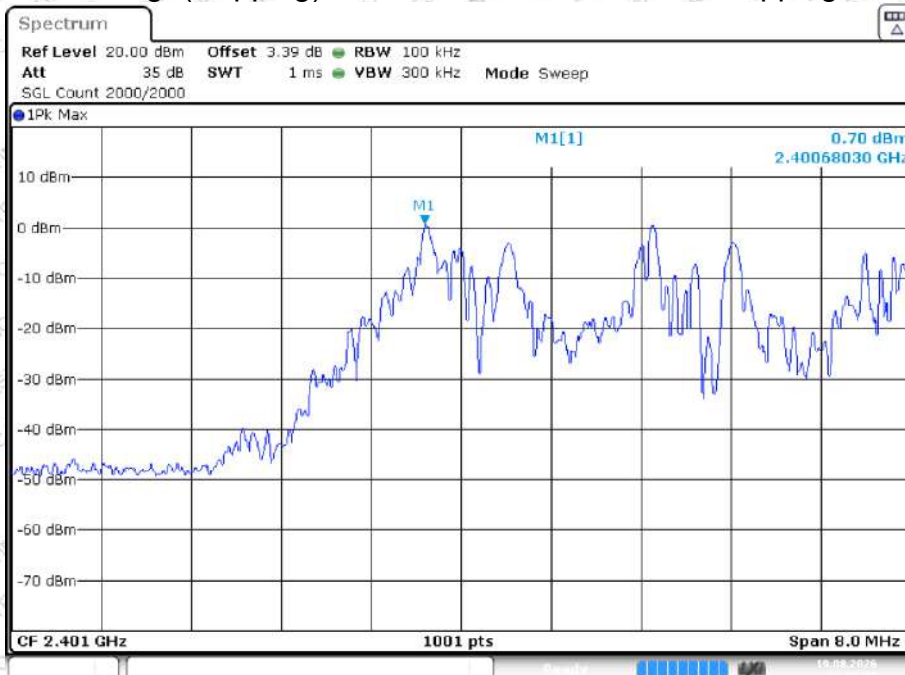


Date: 19.AUG.2026 12:53:02



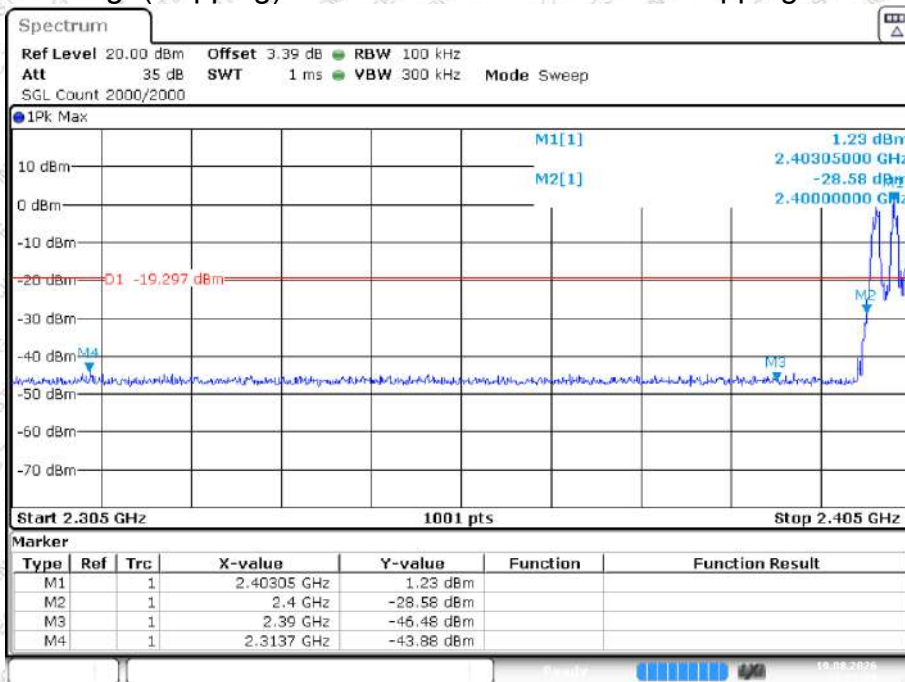
2401-2467 MHz:

Band Edge(Hopping) NVNT user 2401MHz Ant1 Hopping Ref



Date: 19.AUG.2026 11:21:58

Band Edge(Hopping) NVNT user 2401MHz Ant1 Hopping Emission



Date: 19.AUG.2026 11:22:08

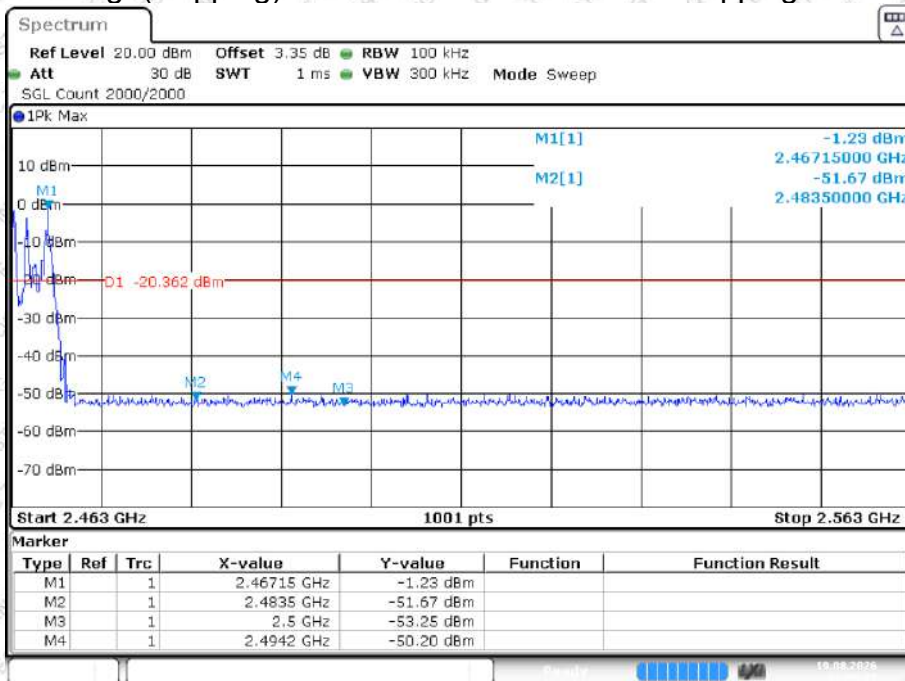


Band Edge(Hopping) NVNT user 2467MHz Ant1 Hopping Ref



Date: 19.AUG.2026 11:46:13

Band Edge(Hopping) NVNT user 2467MHz Ant1 Hopping Emission



Date: 19.AUG.2026 11:46:18



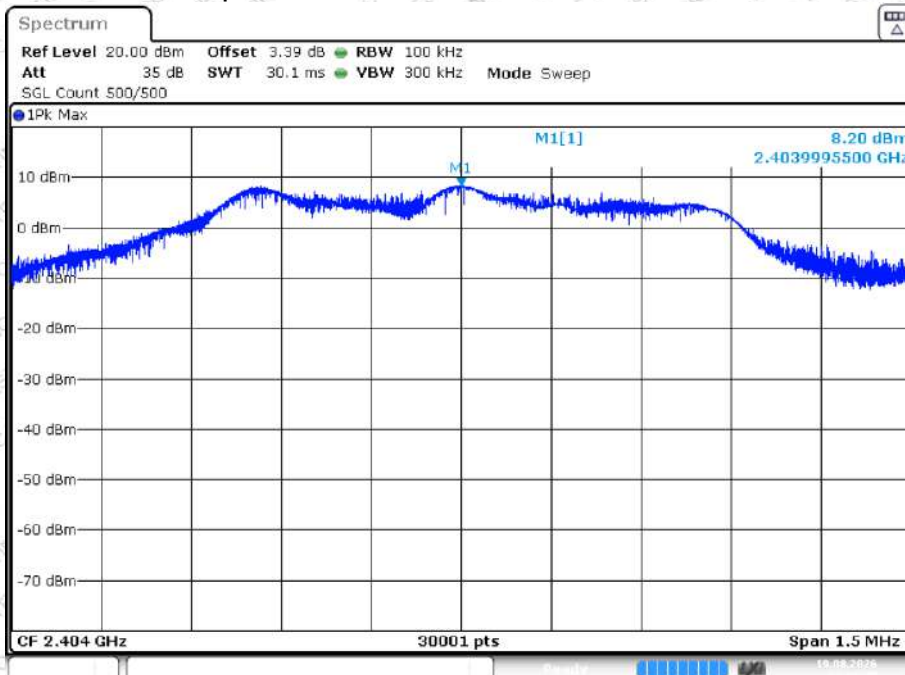
Conducted RF Spurious Emission:

Frequency band (MHz)	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
2404-2470	2404	No-Hopping	-45.08	-20	Pass
	2436	No-Hopping	-44.3	-20	Pass
	2470	No-Hopping	-43.67	-20	Pass
2405-2471	2405	No-Hopping	-45.16	-20	Pass
	2437	No-Hopping	-44.45	-20	Pass
	2471	No-Hopping	-43.85	-20	Pass
2412-2478	2412	No-Hopping	-44.97	-20	Pass
	2444	No-Hopping	-44.3	-20	Pass
	2478	No-Hopping	-43.79	-20	Pass
2413-2479	2413	No-Hopping	-45.16	-20	Pass
	2445	No-Hopping	-44.55	-20	Pass
	2479	No-Hopping	-44.13	-20	Pass
2401-2467	2401	No-Hopping	-38.04	-20	Pass
	2433	No-Hopping	-38.27	-20	Pass
	2467	No-Hopping	-37.78	-20	Pass



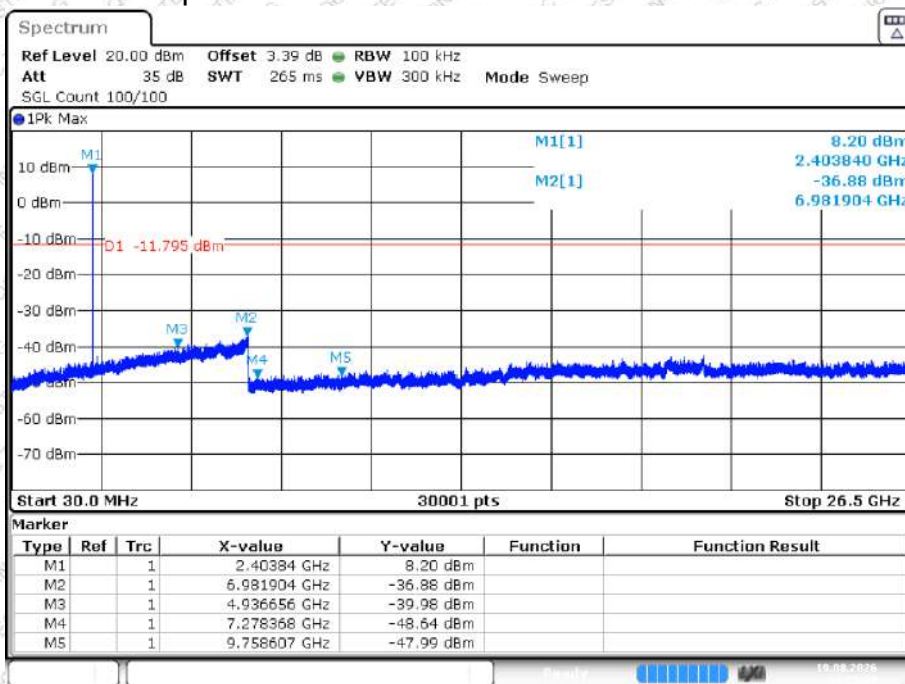
2404-2470 MHz:

Tx. Spurious NVNT user 2404MHz Ant1 Ref



Date: 19.AUG.2026 13:19:46

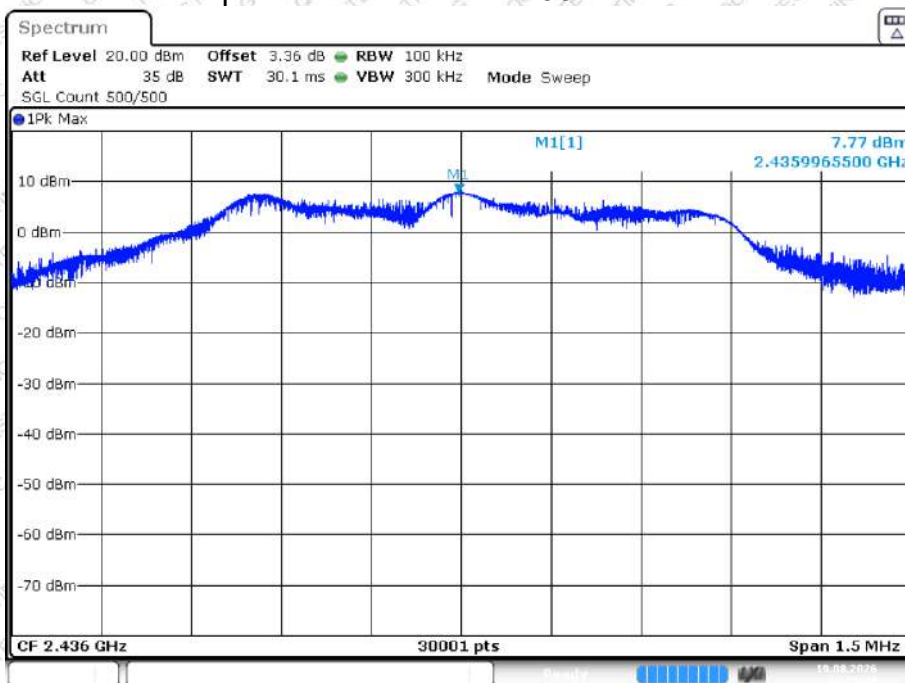
Tx. Spurious NVNT user 2404MHz Ant1 Emission



Date: 19.AUG.2026 13:21:39

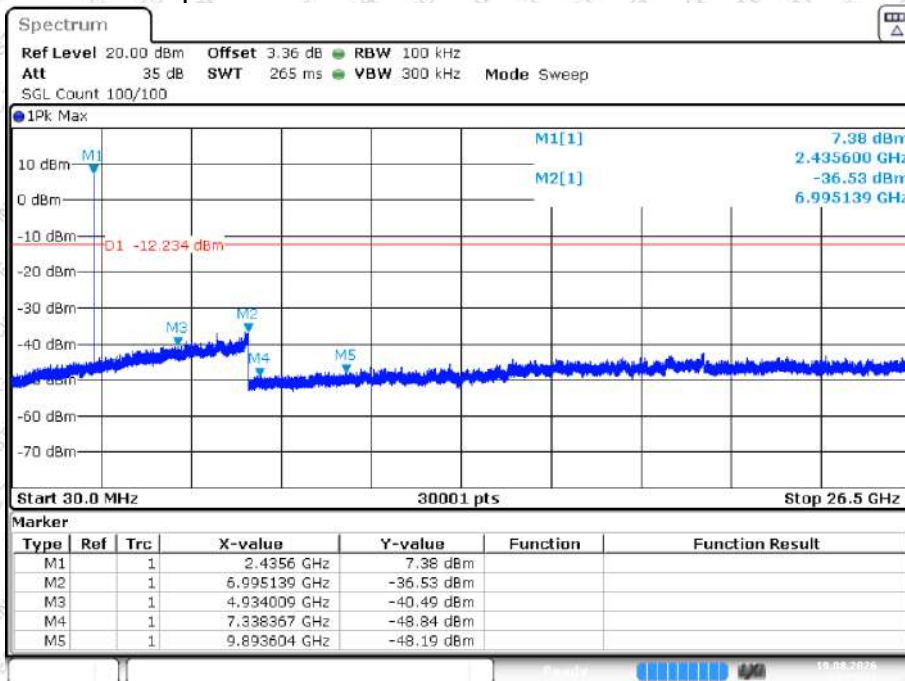


Tx. Spurious NVNT user 2436MHz Ant1 Ref



Date: 19.AUG.2026 13:23:09

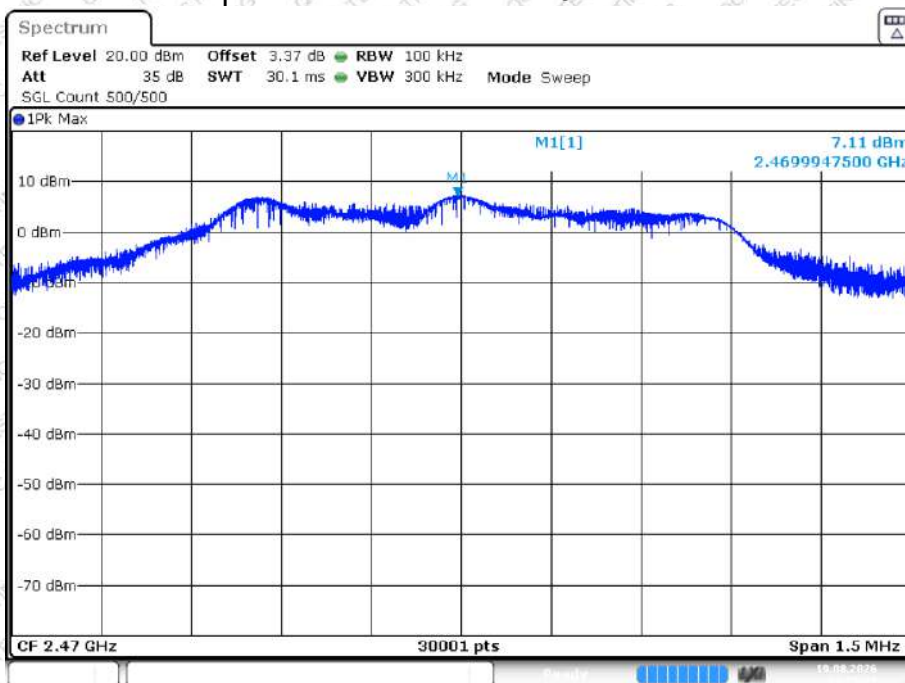
Tx. Spurious NVNT user 2436MHz Ant1 Emission



Date: 19.AUG.2026 13:25:02

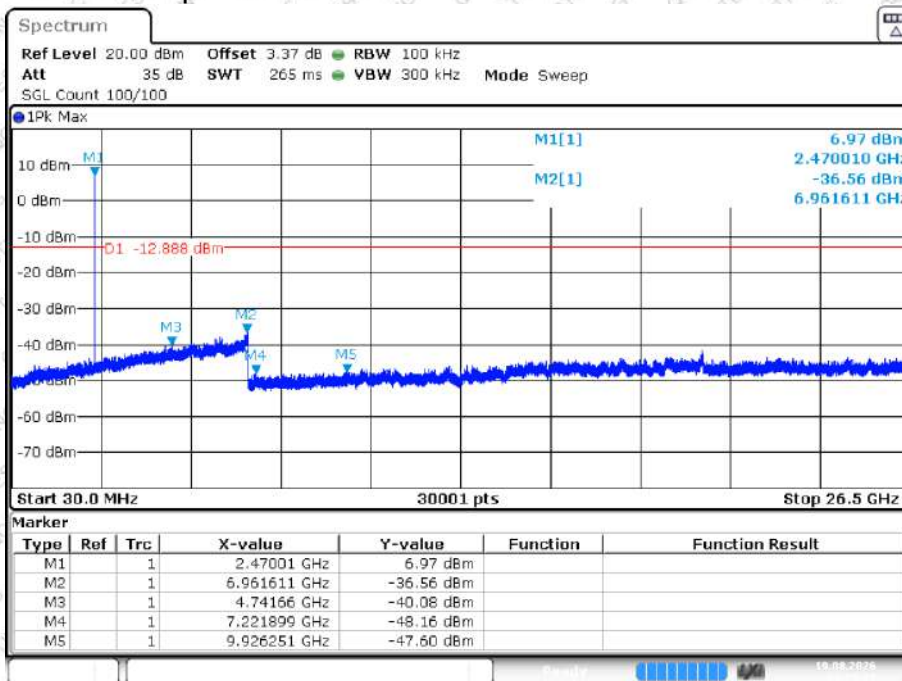


Tx. Spurious NVNT user 2470MHz Ant1 Ref



Date: 19.AUG.2026 13:27:22

Tx. Spurious NVNT user 2470MHz Ant1 Emission

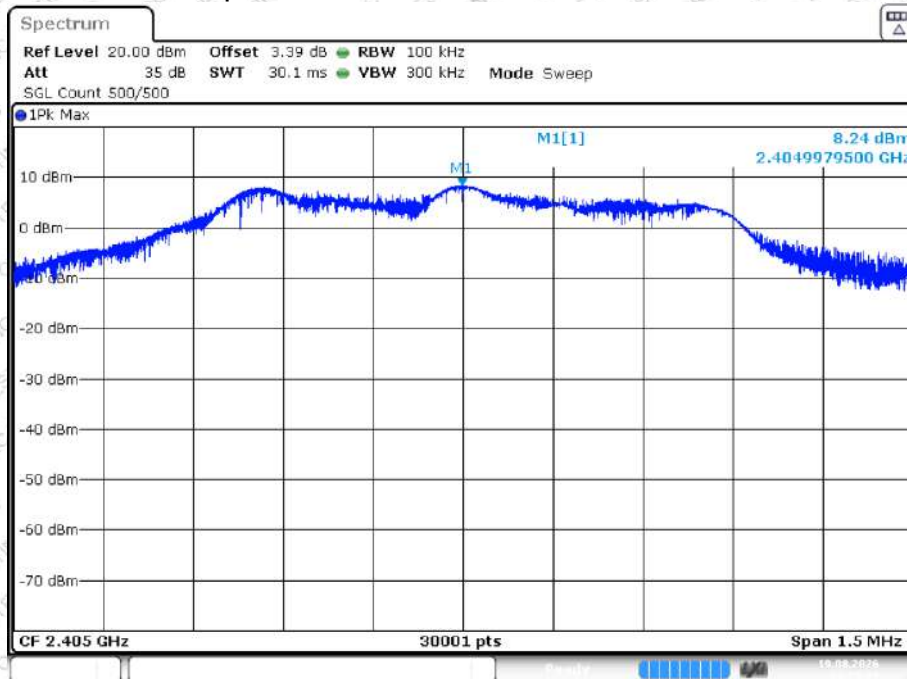


Date: 19.AUG.2026 13:29:15



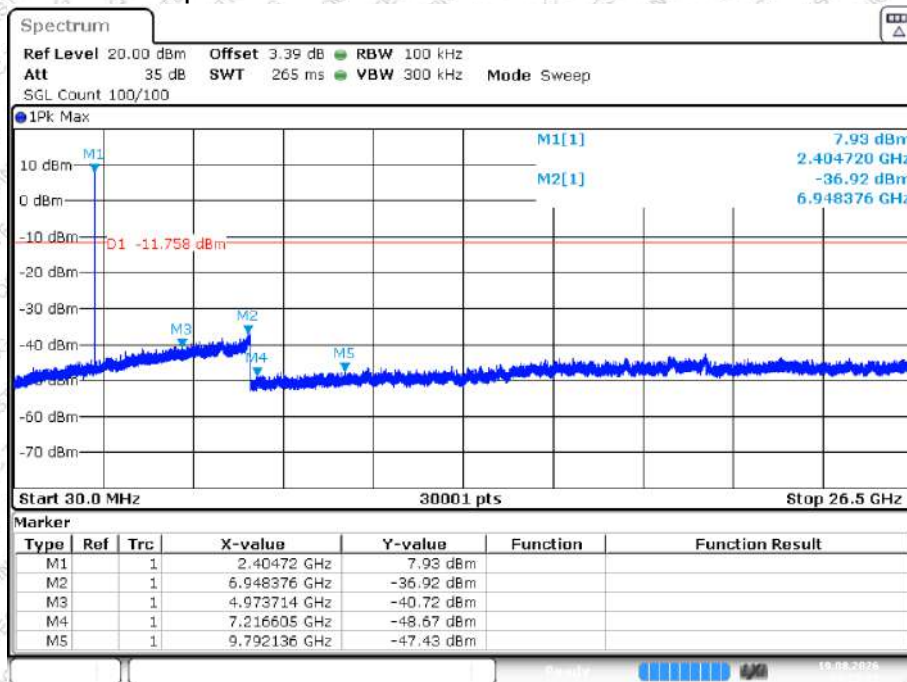
2405-2471 MHz:

Tx. Spurious NVNT user 2405MHz Ant1 Ref



Date: 19.AUG.2026 14:20:19

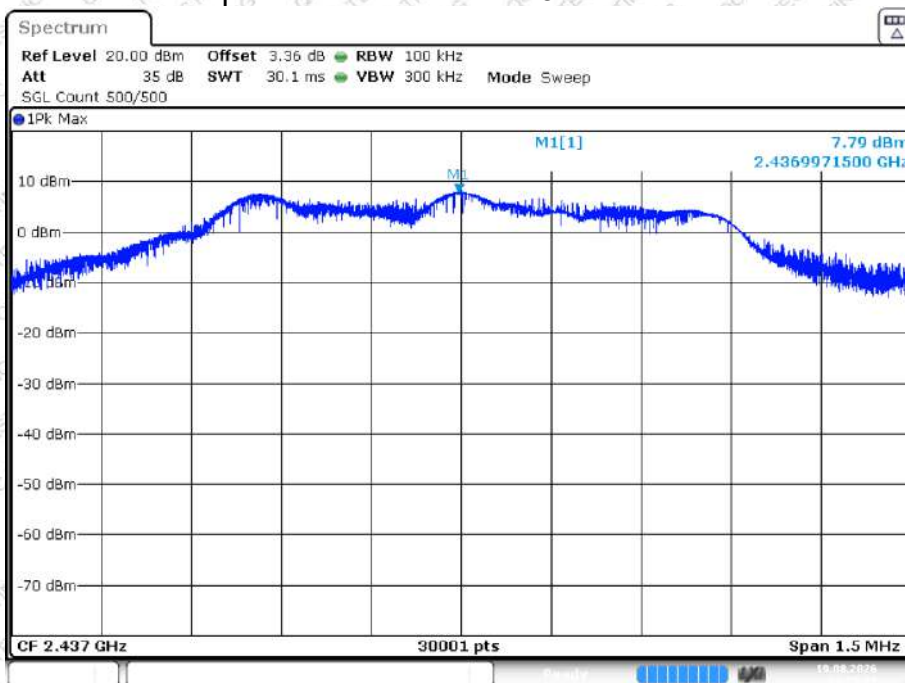
Tx. Spurious NVNT user 2405MHz Ant1 Emission



Date: 19.AUG.2026 14:22:12

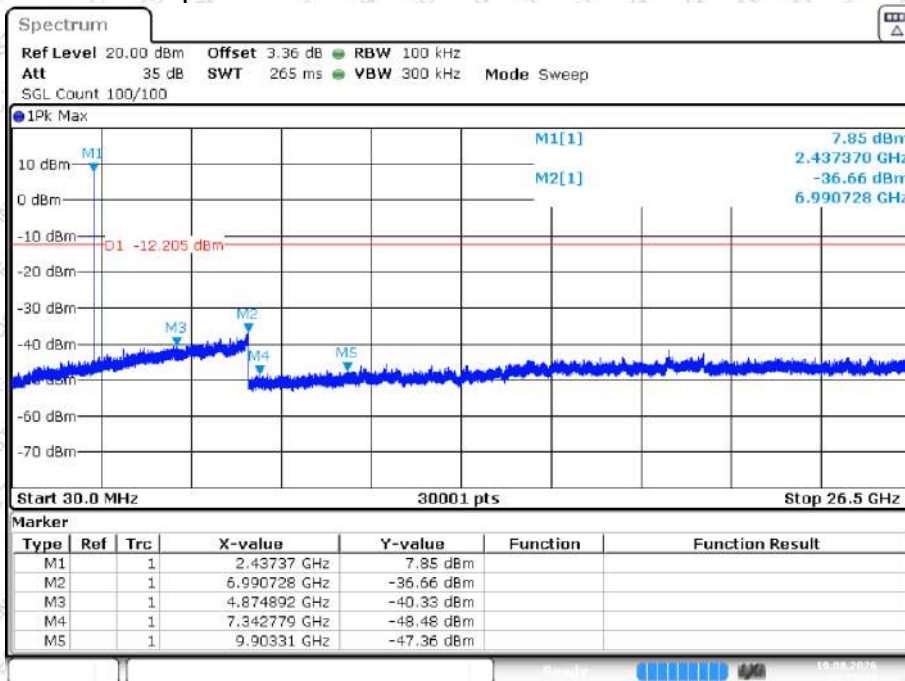


Tx. Spurious NVNT user 2437MHz Ant1 Ref



Date: 19.AUG.2026 14:23:13

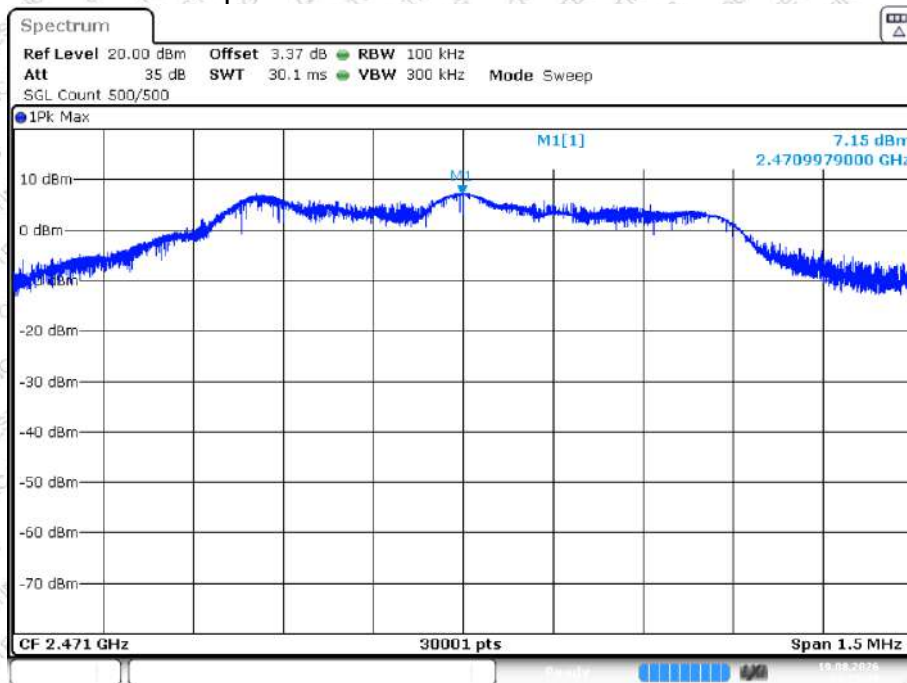
Tx. Spurious NVNT user 2437MHz Ant1 Emission



Date: 19.AUG.2026 14:26:30

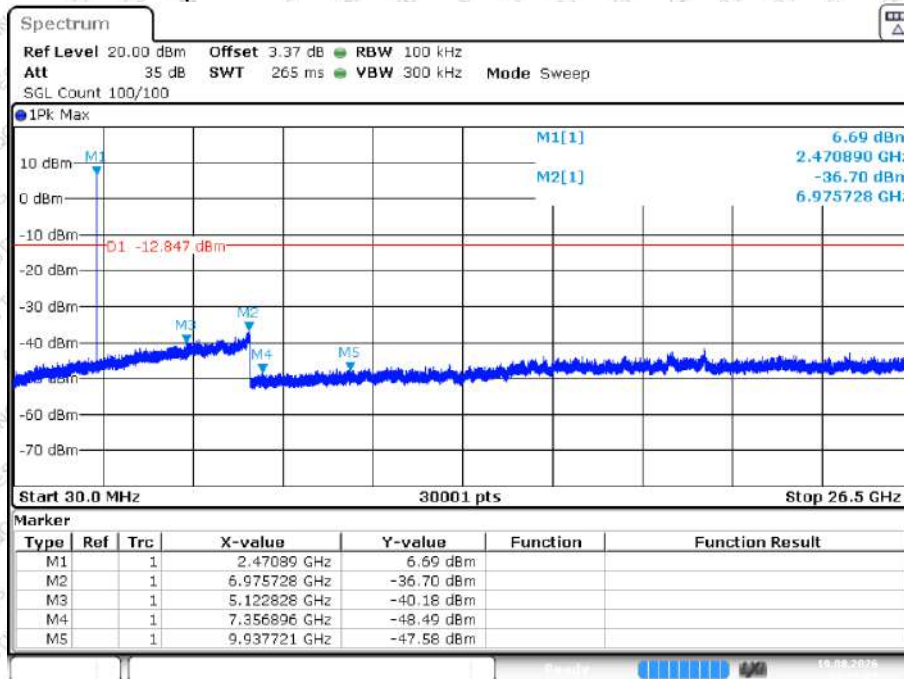


Tx. Spurious NVNT user 2471MHz Ant1 Ref



Date: 19.AUG.2026 14:29:10

Tx. Spurious NVNT user 2471MHz Ant1 Emission

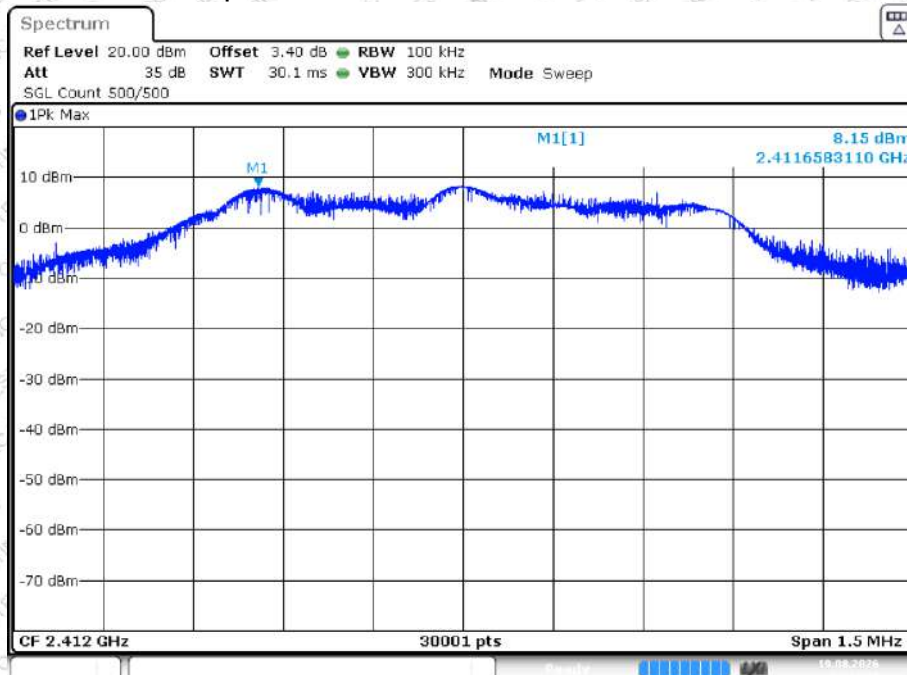


Date: 19.AUG.2026 14:31:03



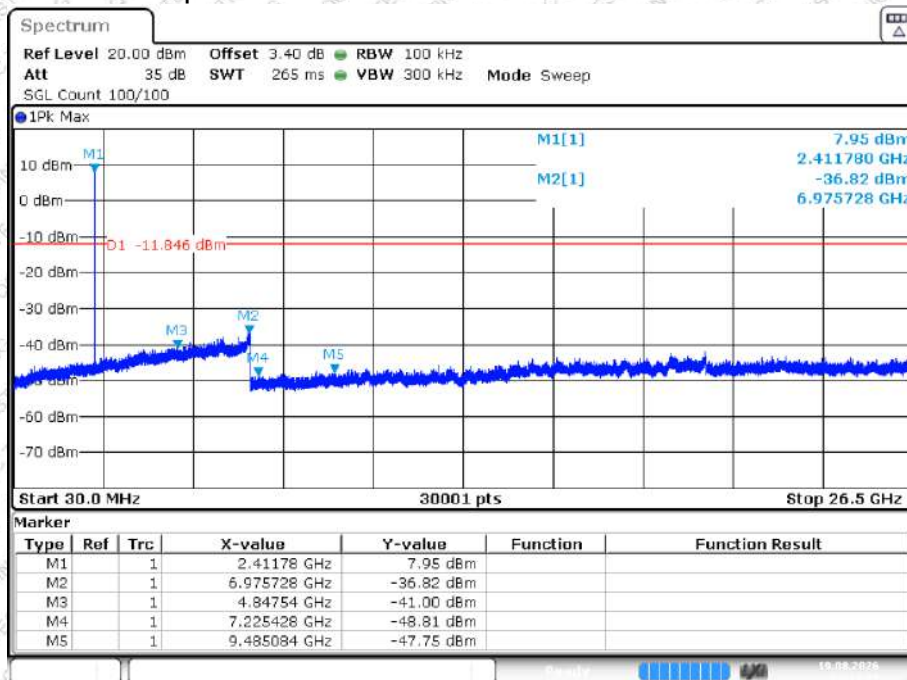
2412-2478 MHz:

Tx. Spurious NVNT user 2412MHz Ant1 Ref



Date: 19.AUG.2026 13:41:20

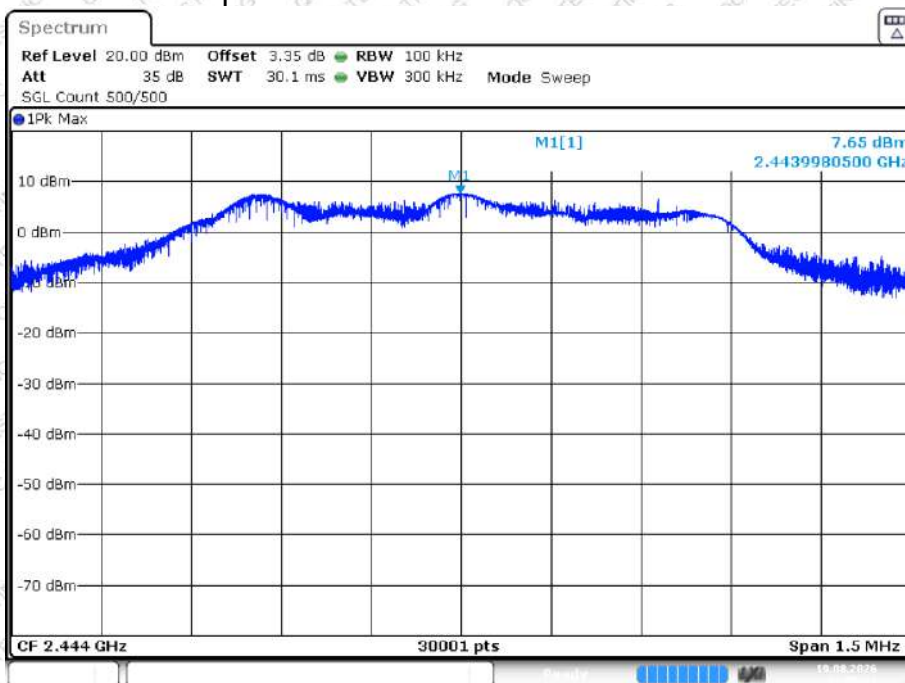
Tx. Spurious NVNT user 2412MHz Ant1 Emission



Date: 19.AUG.2026 13:43:13

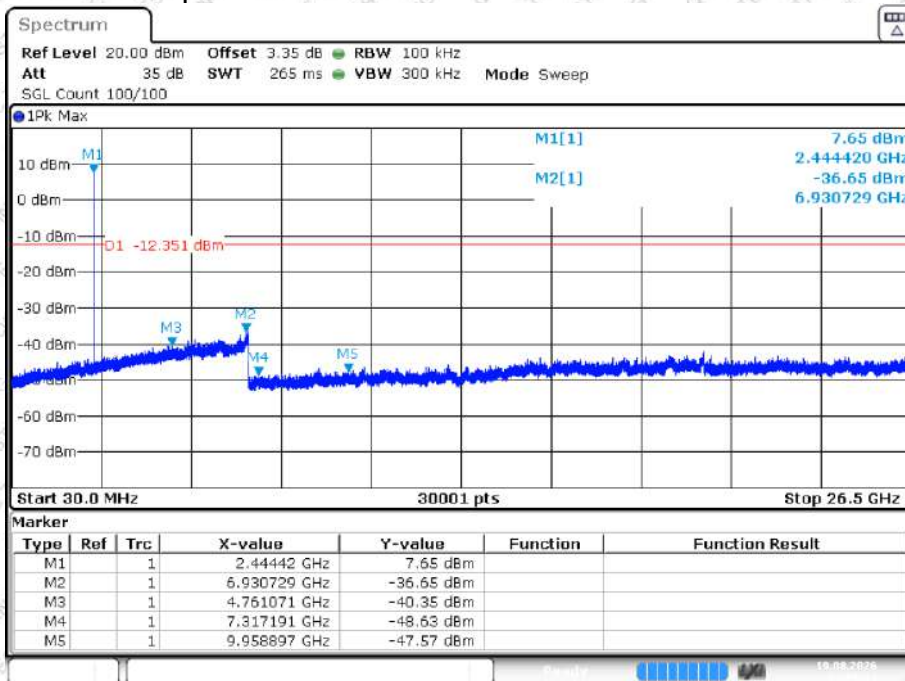


Tx. Spurious NVNT user 2444MHz Ant1 Ref



Date: 19.AUG.2026 13:58:32

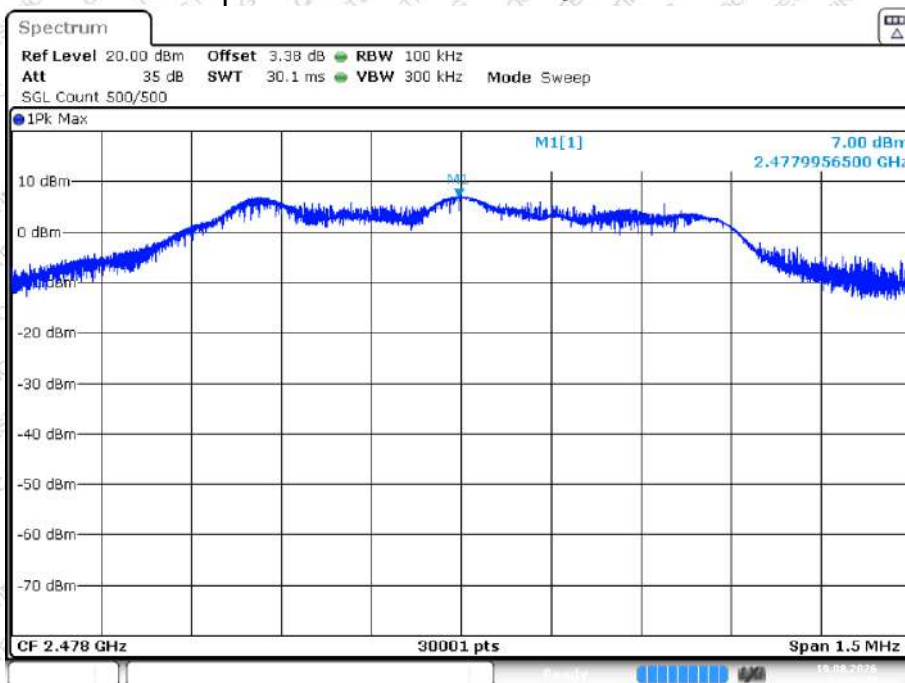
Tx. Spurious NVNT user 2444MHz Ant1 Emission



Date: 19.AUG.2026 14:01:15

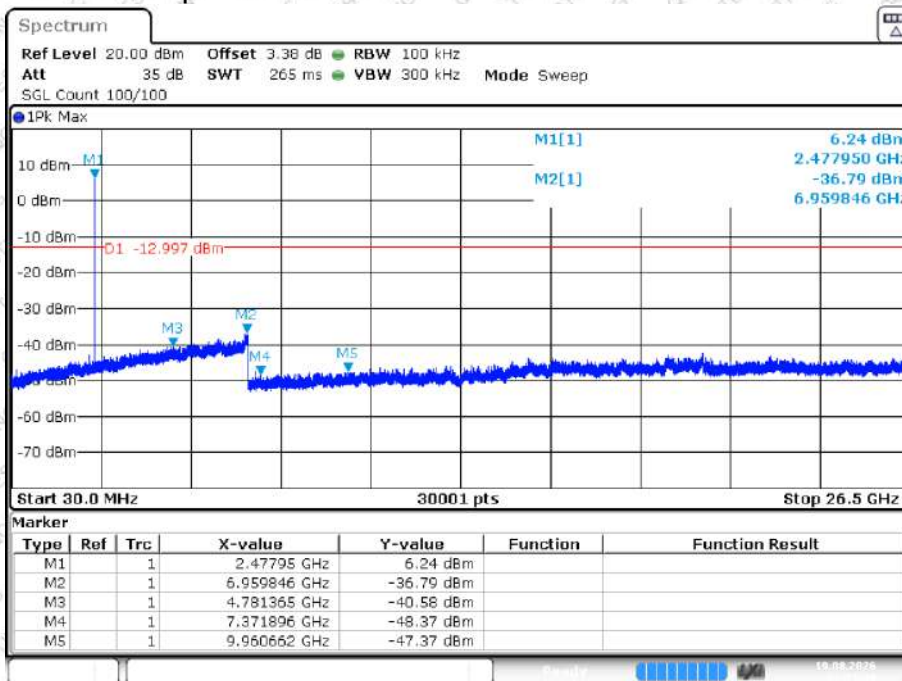


Tx. Spurious NVNT user 2478MHz Ant1 Ref



Date: 19.AUG.2026 13:49:56

Tx. Spurious NVNT user 2478MHz Ant1 Emission

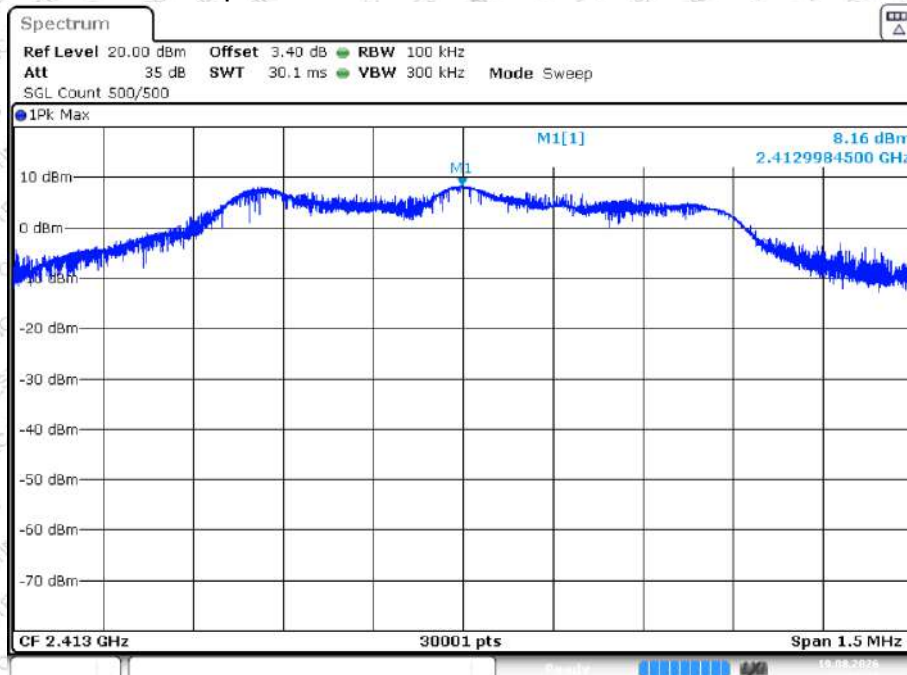


Date: 19.AUG.2026 13:51:49



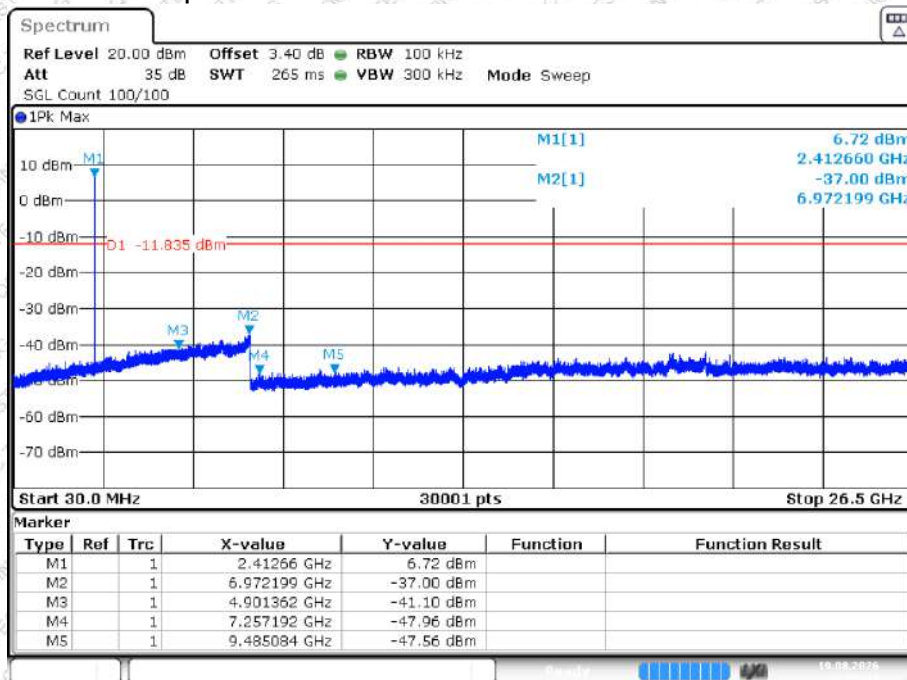
2413-2479 MHz:

Tx. Spurious NVNT user 2413MHz Ant1 Ref



Date: 19.AUG.2026 12:39:03

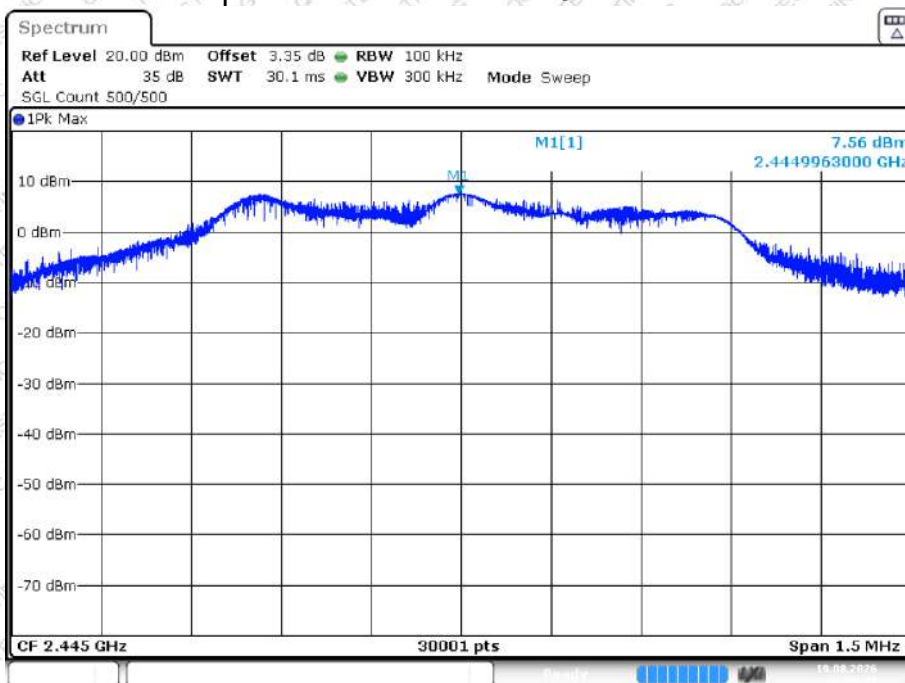
Tx. Spurious NVNT user 2413MHz Ant1 Emission



Date: 19.AUG.2026 12:40:56

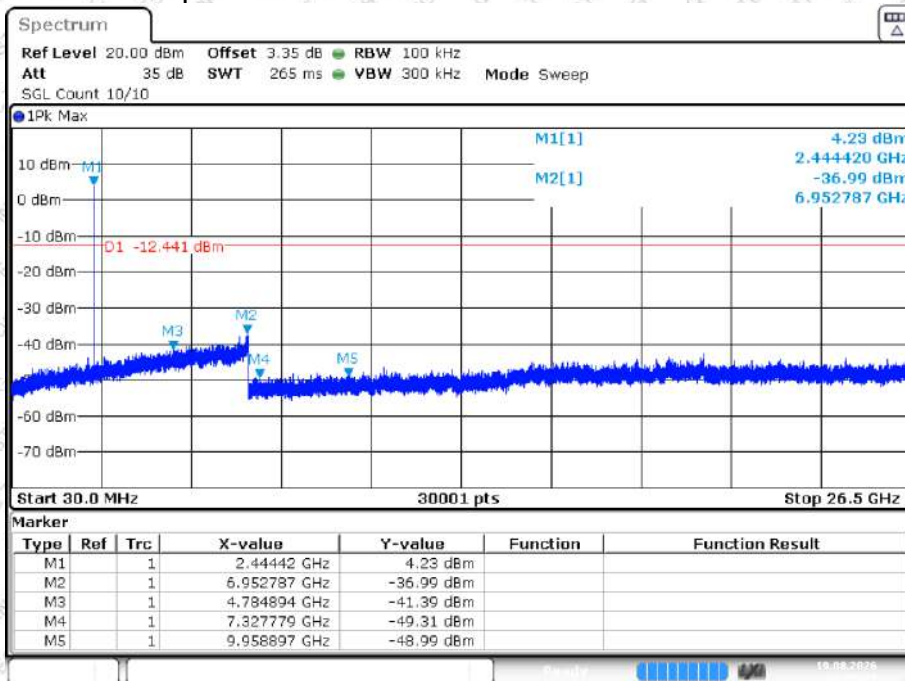


Tx. Spurious NVNT user 2445MHz Ant1 Ref



Date: 19.AUG.2026 12:46:10

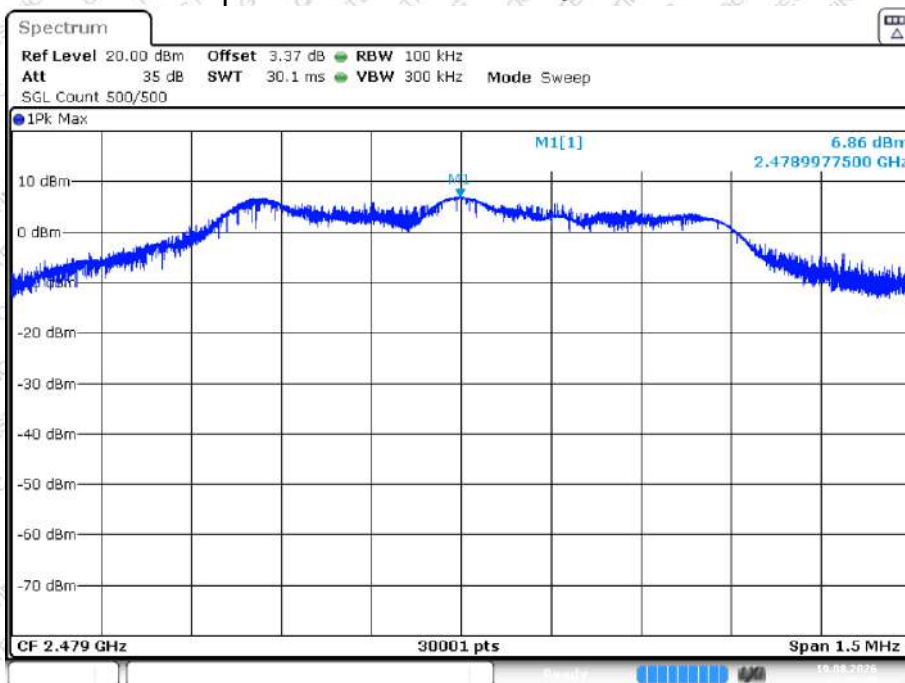
Tx. Spurious NVNT user 2445MHz Ant1 Emission



Date: 19.AUG.2026 12:46:23

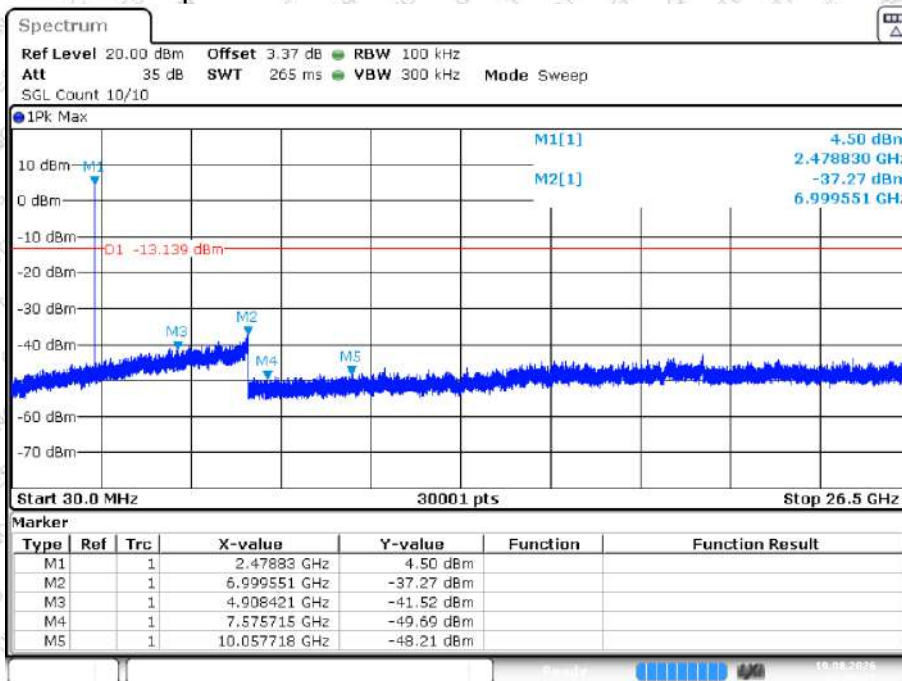


Tx. Spurious NVNT user 2479MHz Ant1 Ref



Date: 19.AUG.2026 12:47:55

Tx. Spurious NVNT user 2479MHz Ant1 Emission

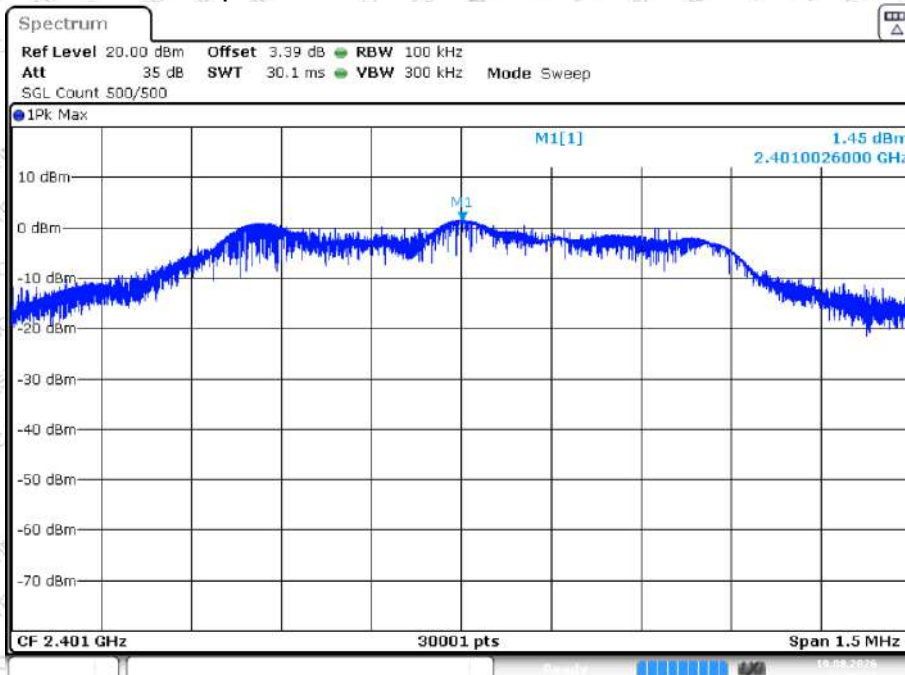


Date: 19.AUG.2026 12:48:07



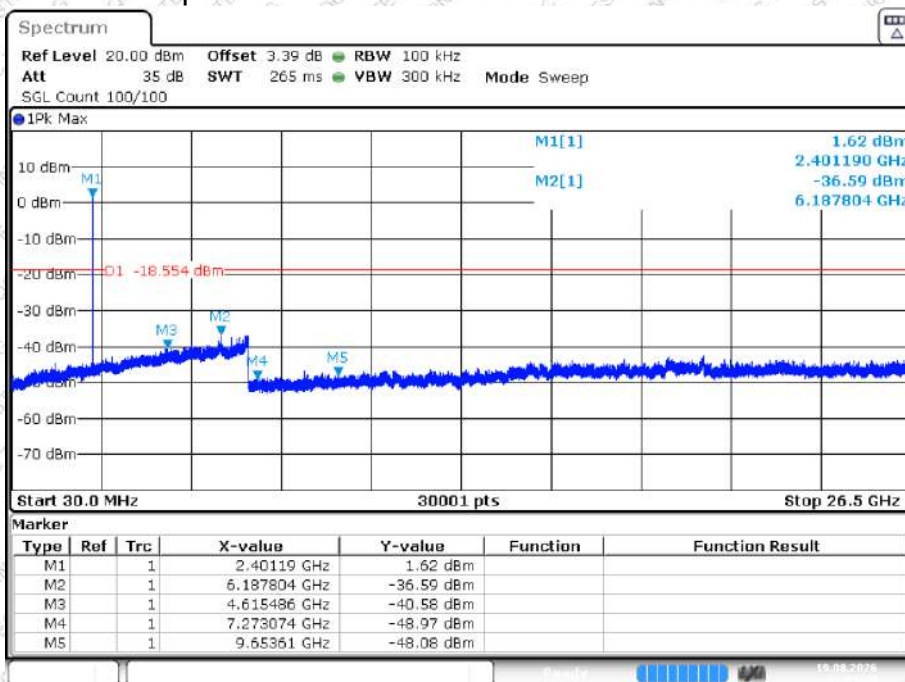
2401-2467 MHz:

Tx. Spurious NVNT user 2401MHz Ant1 Ref



Date: 19.AUG.2026 11:49:52

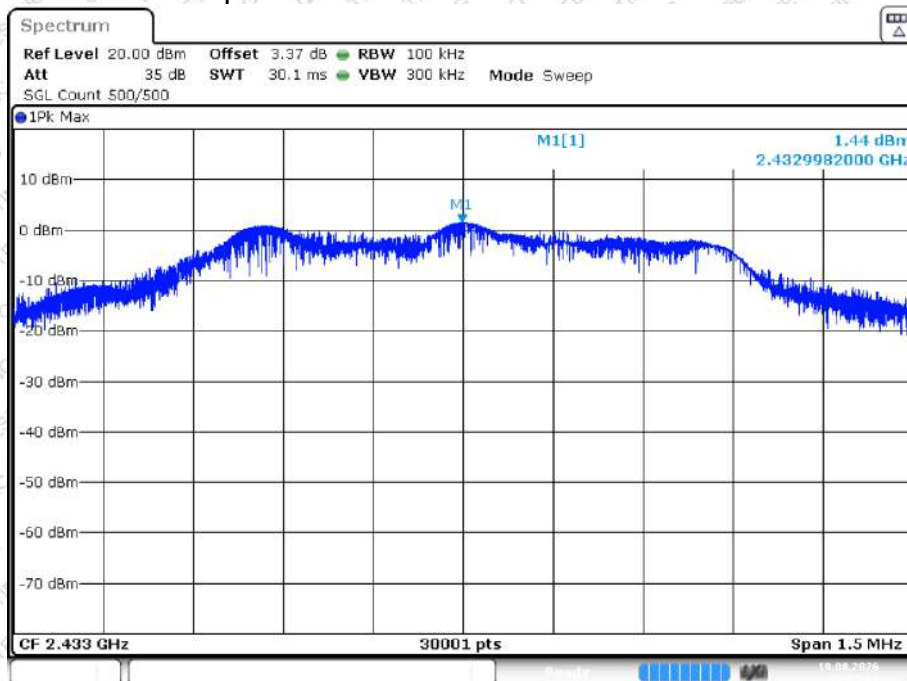
Tx. Spurious NVNT user 2401MHz Ant1 Emission



Date: 19.AUG.2026 11:51:45

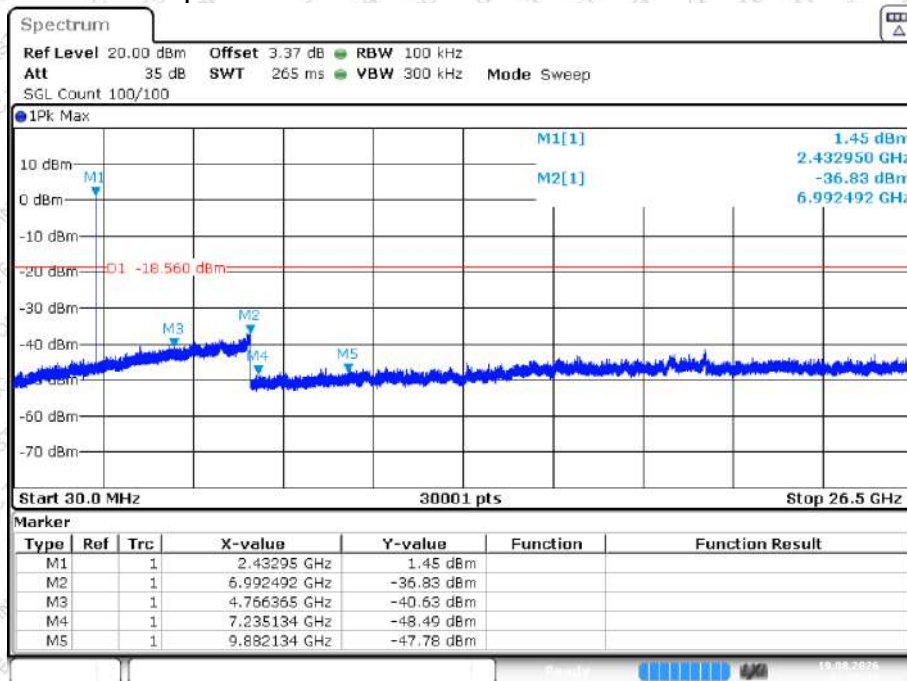


Tx. Spurious NVNT user 2433MHz Ant1 Ref



Date: 19.AUG.2026 11:53:16

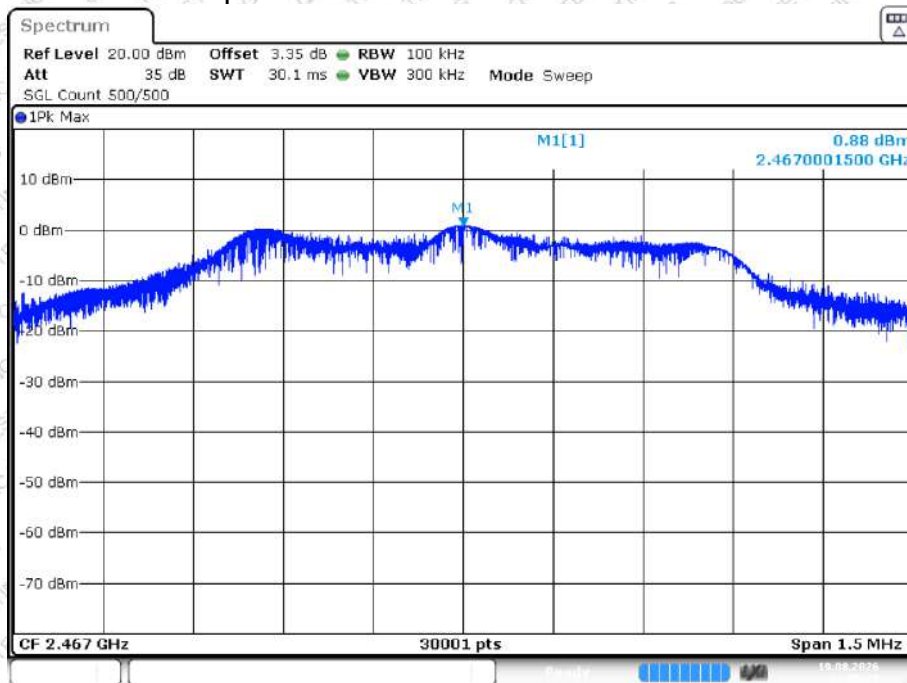
Tx. Spurious NVNT user 2433MHz Ant1 Emission



Date: 19.AUG.2026 11:55:09

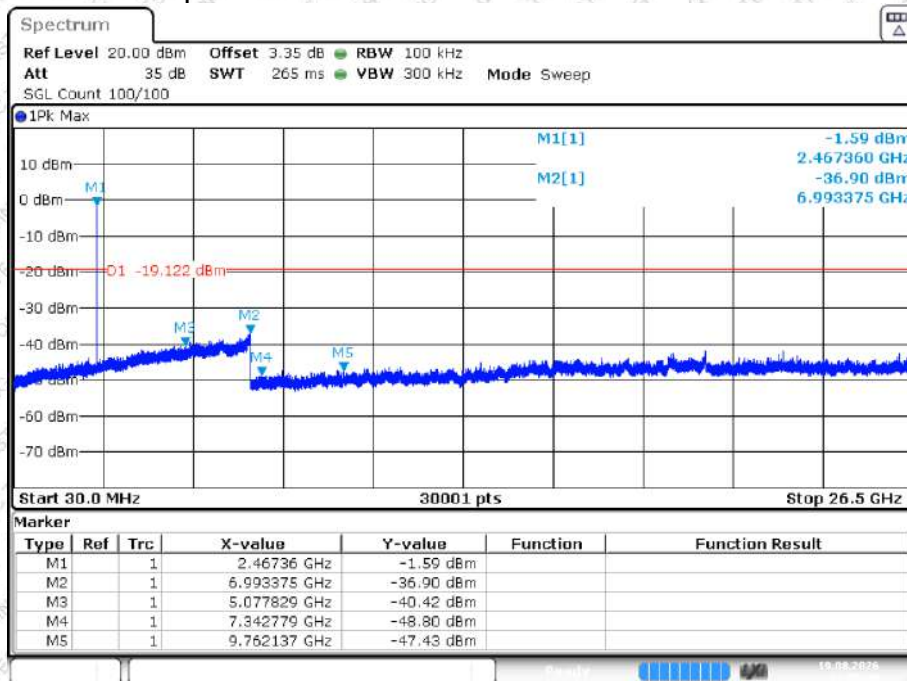


Tx. Spurious NVNT user 2467MHz Ant1 Ref



Date: 19.AUG.2026 11:56:47

Tx. Spurious NVNT user 2467MHz Ant1 Emission



Date: 19.AUG.2026 11:58:40

11.2 Radiated Emission Method

11.2.1 Applicable Standard

FCC Part15 C Section 15.209 and 15.205

11.2.2 Limit

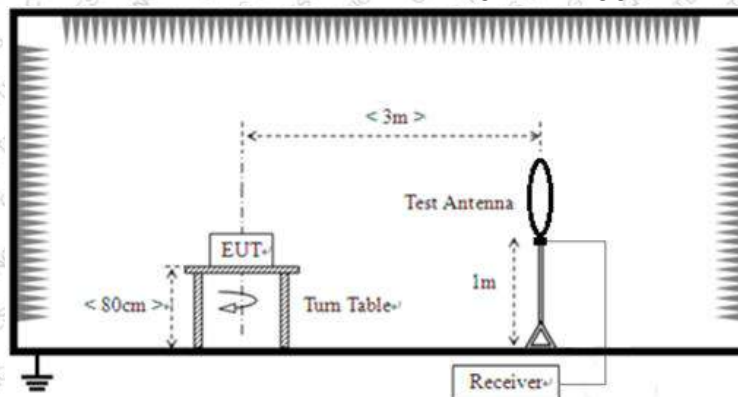
Frequency	Limit (uV/m)	Value	Measurement Distance
0.009MHz-0.490MHz	2400/F(KHz)	QP	300m
0.490MHz-1.705MHz	24000/F(KHz)	QP	30m
1.705MHz-30MHz	30	QP	30m

Frequency	Field Strengths Limits (uV/m at 3 m)	Field Strengths Limits (dBuV/m at 3 m)	Remark
30 – 88	100	40.0	Quasi-peak
88 – 216	150	43.5	Quasi-peak
216 – 960	200	46.0	Quasi-peak
Above 960	500	54.0	Quasi-peak
Above 1GHz	/	54.0	Peak
		74.0	Average

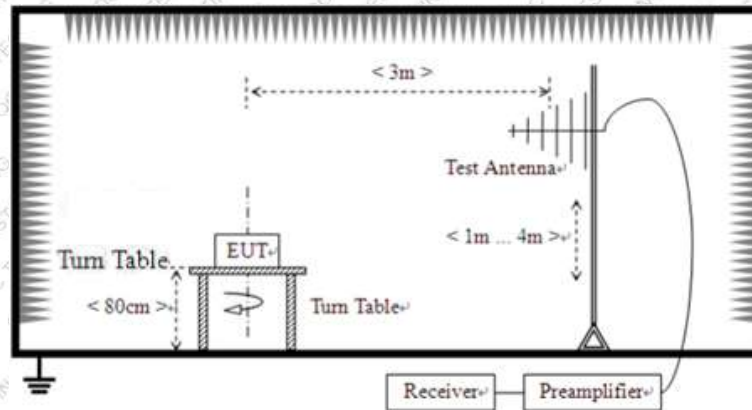
Note: dBuV/m = 20log(uV/m)

11.2.3 Test setup

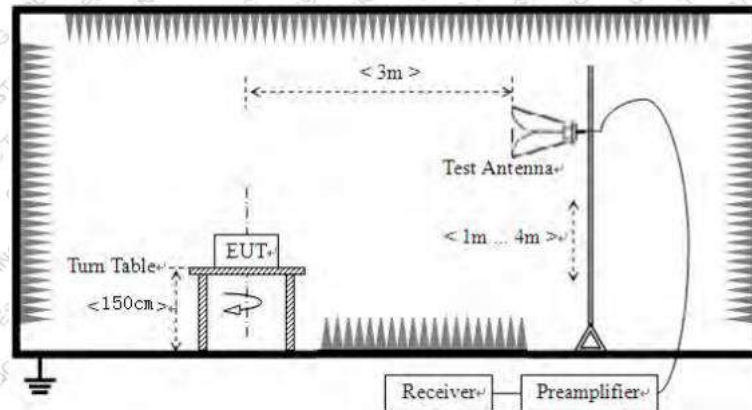
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions from above 1GHz



11.2.4 EMI Test Receiver Setup

Frequency	RBW	VBW	IF B/W	Measurement
9KHz-150KHz	200Hz	600Hz	/	QP
150KHz-30MHz	9KHz	30KHz	/	QP
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	Average

Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on measurements employing an average detector.

11.2.5 Test procedure

- The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

11.2.6 Test Data

Temperature	26 °C	Humidity	54%
ATM Pressure	101.1kPa	Antenna Gain	2.86dBi
Test by	Fan Yang	Test result	PASS

Remarks:

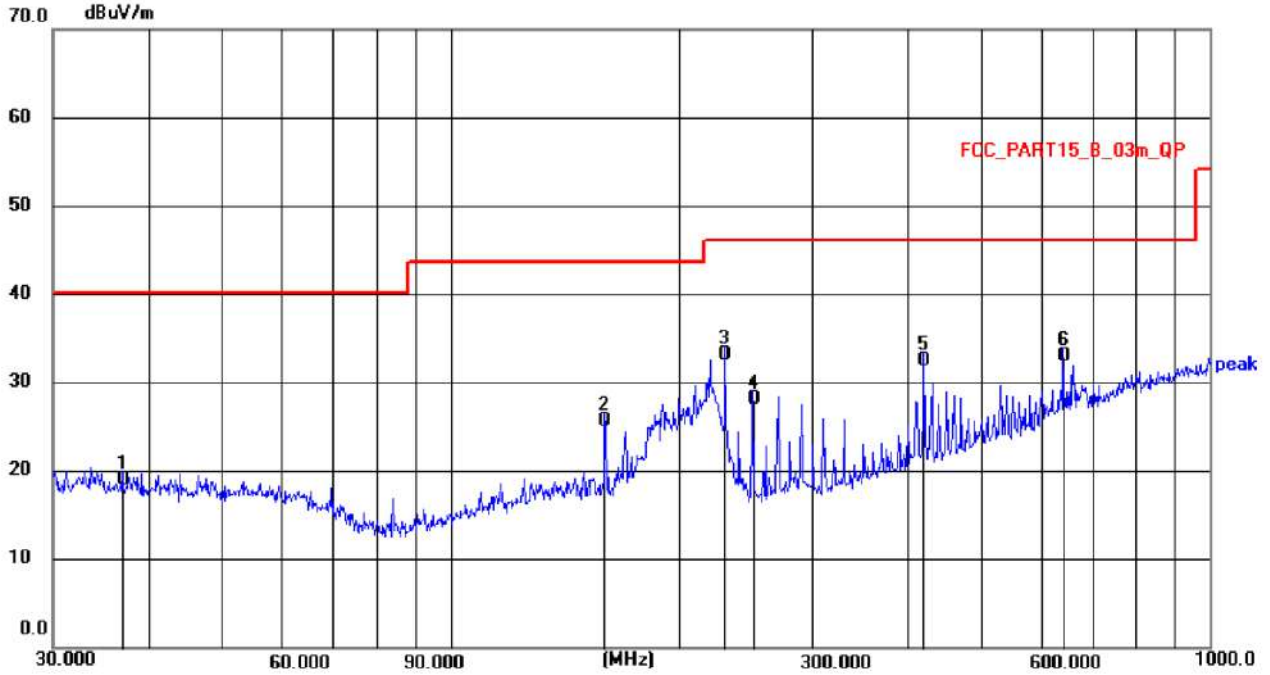
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
2. The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



Below 1GHz

Pre-scan all test modes, found worst case at 2413-2479 MHz: 2413MHz TX, and so only show the test result of 2413-2479 MHz: 2413MHz TX.

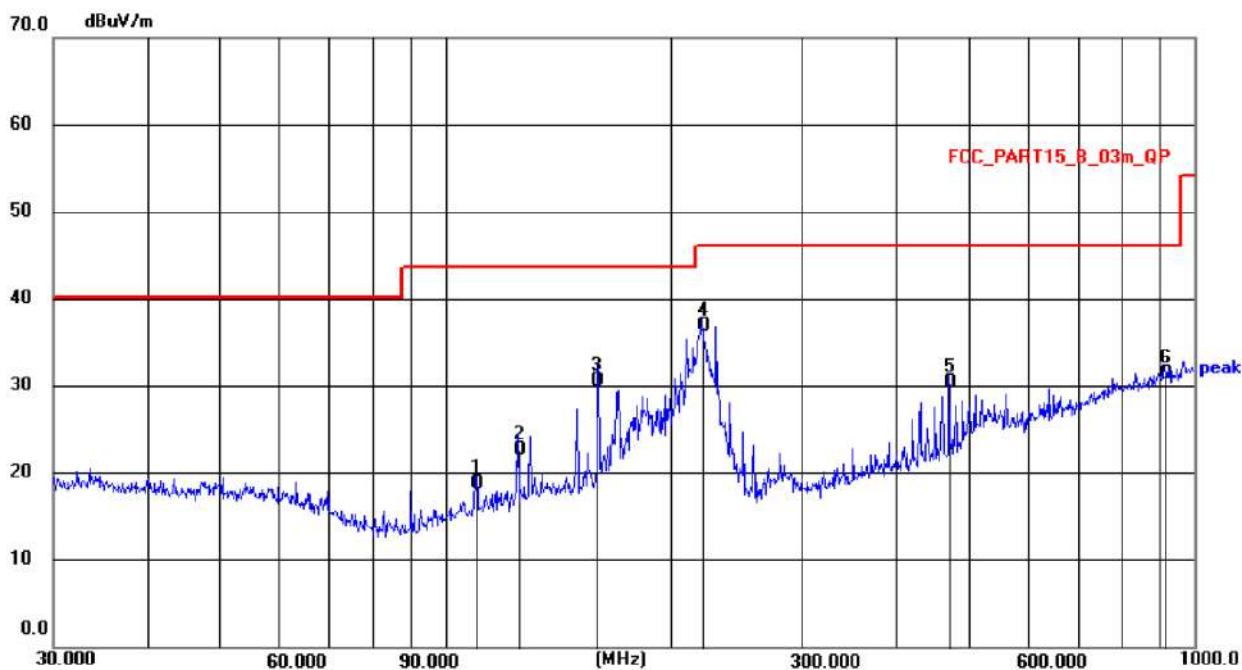
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.0248	3.93	15.10	19.03	40.00	20.97	QP
2	159.7844	11.07	14.53	25.60	43.50	17.90	QP
3 *	230.0985	20.31	12.91	33.22	46.00	12.78	QP
4	250.3012	14.70	13.41	28.11	46.00	17.89	QP
5	420.5803	14.47	18.08	32.55	46.00	13.45	QP
6	640.6110	11.00	22.00	33.00	46.00	13.00	QP



Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	109.7960	6.53	12.30	18.83	43.50	24.67	QP
2	125.0066	9.12	13.53	22.65	43.50	20.85	QP
3	159.7844	16.00	14.53	30.53	43.50	12.97	QP
4 *	220.6171	24.52	12.29	36.81	46.00	9.19	QP
5	470.5232	11.26	19.04	30.30	46.00	15.70	QP
6	912.8620	5.13	26.34	31.47	46.00	14.53	QP

**Above 1GHz**

Pre-scan all test modes, found worst case at 2413-2479 MHz, and so only show the test result of 2413-2479 MHz.

Test channel: Lowest channel

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
2310	59.03	H	-22.55	36.48	74	37.52	peak
2310	56.71	V	-22.55	34.16	74	39.84	peak
2390	69.54	H	-22.29	47.25	74	26.75	peak
2390	64.98	V	-22.29	42.69	74	31.31	peak
4826	64.53	H	-18.03	46.5	74	27.5	peak
4826	64.84	V	-18.03	46.81	74	27.19	peak
7239	58.55	H	-11.52	47.03	74	26.97	peak
7239	54.78	H	-11.52	43.26	74	30.74	peak

Test channel: Middle channel

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
4890	59.12	H	-17.97	41.15	74	32.85	peak
4890	58.73	V	-17.97	40.76	74	33.24	peak
7335	56.48	H	-11.37	45.11	74	28.89	peak
7335	58	V	-11.37	46.63	74	27.37	peak

Test channel: Highest channel

Frequency (MHz)	Read Level (dBμV)	polarization	Factor (dB/m)	Level (dBμV/m)	Limit Line (dBμV/m)	Margin (dB)	Detector
2483.5	84.12	H	-22	62.12	74	11.88	peak
2483.5	61.07	H	-22	39.07	54	14.93	AVG
2483.5	73.9	V	-22	51.9	74	22.1	peak
2500	67.59	H	-21.95	45.64	74	28.36	peak
2500	59.88	V	-21.95	37.93	74	36.07	peak
4958	64.65	H	-17.92	46.73	74	27.27	peak
4958	62.69	V	-17.92	44.77	74	29.23	peak
7437	59.48	H	-11.23	48.25	74	25.75	peak
7437	60.51	V	-11.23	49.28	74	24.72	peak

Remarks:

1. Level = Receiver Read level + Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

----- THE END OF TEST REPORT -----