

FCC AND ISED CERTIFICATION TEST REPORT

Report No.: DDT-B23101115-2E01

Applicant	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Equipment under Test	:	Wireless Router
Model No.	:	RG-EG105GW-X
Trade Mark	:	Reyee
FCC ID	:	2AX5J-EG105GWX
IC	:	27676-EG105GWX
Manufacturer	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China

Issued By: Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park
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REPORT

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Test Report Declare

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Equipment under Test	:	Wireless Router
Model No.	:	RG-EG105GW-X
Trade Mark	:	Reyee
Manufacturer	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C, RSS-247 Issue 3 August 2023.

Test procedure used: ANSI C63.10:2020, RSS-Gen Issue 5, KDB 558074 D01 15.247 Meas Guidance v05r02

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC&ISED standards.



Report No:	DDT-B23101115-2E01		
Date of Receipt:	Oct. 18, 2023	Date of Test:	Oct. 18, 2023 ~ Nov. 17, 2023

Prepared By:

Sunny Zhang

Sunny Zhang/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Nov. 17, 2023	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	Standard	Verdict
6dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2) RSS-247 Clause 5.2 (a)	Pass
Maximum Conducted Output Power	FCC 15.247 (b) (3) RSS-247 Clause 5.4 (e)	Pass
Power Spectral Density	FCC 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d) RSS-247 Clause 5.5	Pass
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Power Line Conducted Emission	FCC 15.207 RSS-GEN Clause 8.8	Pass
Antenna Requirement	FCC 15.203 RSS-GEN Clause 6.8	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	: Wireless Router
Test Model Number	: RG-EG105GW-X
EUT Function Description	: Please reference user manual of this device
Power supply	: AC 120V/60Hz
Radio Technology	: IEEE 802.11b/g/n/ax
Operation Frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz IEEE 802.11ax HT20: 2412MHz-2462MHz IEEE 802.11ax HT40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Transmitter Rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n: MCS0~MCS15 IEEE 802.11ax: MCS0~MCS11
Antenna Type	: Whip antenna, maximum PK gain: Ant1 4.93dBi, Ant2 4.72dBi
SISO Mode	: ☒ 11b ☒ 11g ☒ 11n ☒ 11ax
MIMO Mode	: ☐ 11b ☐ 11g ☒ 11n ☒ 11ax

Note1: EUT is the ab. of equipment under test.

Note2: The EUT supports MIMO, antenna gains are not equal, Directional gain was calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

So Directional gain = GANT+ Array Gain, where Array Gain is as follows:

For power measurements, Array Gain = 0 dB (NANT ≤ 4), so the Directional gain=4.93.

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description
N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	EMC Compliance	SN
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad	FCC/CE	TP00067A

2.4. Block diagram of EUT configuration for test

AC Mains

EUT

Run the special test software “QATool_Dbg.exe” provided by manufacturer to control EUT work in Continuous Tx mode, and select test channel, wireless mode and data rate.

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	Data rate (Mbps) (See Note)	Channel	Frequency (MHz)
IEEE 802.11b	22	1	LCH: CH1	2412
	22	1	MCH: CH6	2437
	22	1	HCH: CH11	2462
IEEE 802.11g	15	6	LCH: CH1	2412
	15	6	MCH: CH6	2437
	15	6	HCH: CH11	2462
IEEE 802.11n HT20	14	MCS 8	LCH: CH1	2412
	14	MCS 8	MCH: CH6	2437
	14	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	13.5	MCS 8	LCH: CH3	2422
	15	MCS 8	MCH: CH6	2437
	15	MCS 8	HCH: CH9	2452
IEEE 802.11ax HE20	15	MCS 0	LCH: CH1	2412
	15	MCS 0	MCH: CH6	2437
	15	MCS 0	HCH: CH11	2462
IEEE 802.11ax HE40	13	MCS 0	LCH: CH3	2422
	16	MCS 0	MCH: CH6	2437
	16	MCS 0	HCH: CH9	2452

Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

2.5. Deviations of test standard

No Deviation

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-28℃
Humidity range:	20-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2.8. Measurement uncertainty

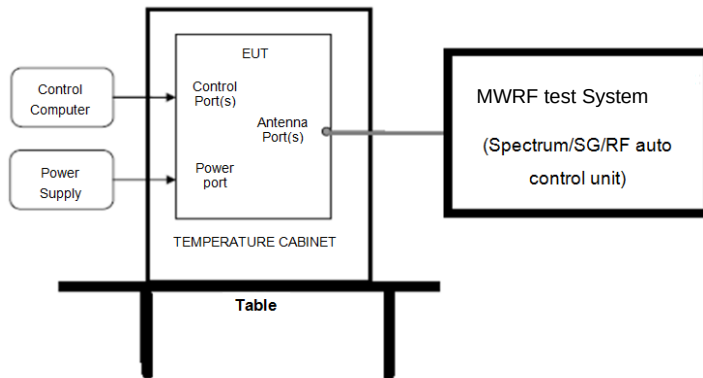
Test Item	Uncertainty
Bandwidth	0.14%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.12 dB (10 MHz ≤ f < 3.6 GHz); 0.32 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.51 dB
Power Spectral Density	0.12 dB (10 MHz ≤ f < 3.6 GHz); 0.32 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 × 10 ⁻⁸ (Antenna couple method) 3.4 × 10 ⁻⁸ (Conducted method)
Conducted Spurious Emissions	0.12 dB (10 MHz ≤ f < 3.6 GHz); 0.32 dB (3.6 GHz ≤ f < 8 GHz) 0.52 dB (8 GHz ≤ f < 22 GHz)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10 ⁻⁷
Temperature	±2℃
Humidity	±1%
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	2.72 dB (Antenna Polarize: V) 2.72 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	2.74 dB (1 - 6 GHz) 2.72 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.40 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (MWRFTest system)					
Microwave Signal Generator	R&S	SMF100A	101396	2023/05/29	1 Year
MXG Vector Signal Generator	Keysight	N5182A	MY50143288	2023/03/07	1 Year
EMI Test Receiver	R&S	ESU26	100243	2023/03/03	1 Year
Signal Analyzer	R&S	FSV	101730	2023/04/04	1 Year
Wideband Radio Communication Tester	R&S	CMW500	158800	2023/06/10	1 Year
Power Sensor	KEYSIGHT	U2021XA	MY59150007	2023/03/22	1 Year
DC Power Supply	inSTEK	PSP-2010	EN122317	2023/02/12	1 Year
Test Software	MWRFTest	MTS8310	V03	N/A	N/A
Radiated Emission -10m EMI Chamber					
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2023/10/11	1 Year
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	790	2023/05/06	1 Year
Active Loop Antenna	R&S	HFH2-Z2	100269	2022/07/11	2 Year
Low noise amplifier	MITEQ	TPA0118-36	0914	2023/02/16	1 Year
EMI Test Receiver	R&S	ESCI	101024	2023/02/15	1 Year
EMI Test Receiver	R&S	ESCI	101030	2023/02/15	1 Year
EMI Test Receiver	R&S	ESU26	100244	2023/03/03	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2022/10/10	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2022/10/10	2 Year
Amplifier	Sonoma	310N	300913	2023/02/15	1 Year
Amplifier	Sonoma	310N	300914	2023/02/15	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	TOYO	EP5/RE	Ver 5.7.10	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESCI	101397	2023/02/15	1 Year
LISN	R&S	ENV216	101122	2023/02/15	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A

4. 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW: 1% to 5% of the OBW

VBW: Three times the RBW

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(3) 6dB Bandwidth set the spectrum analyzer as follows:

RBW: 100 kHz

VBW: 300 kHz

Detector Mode: Peak

Sweep time: auto

Trace mode Max hold

(4) Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

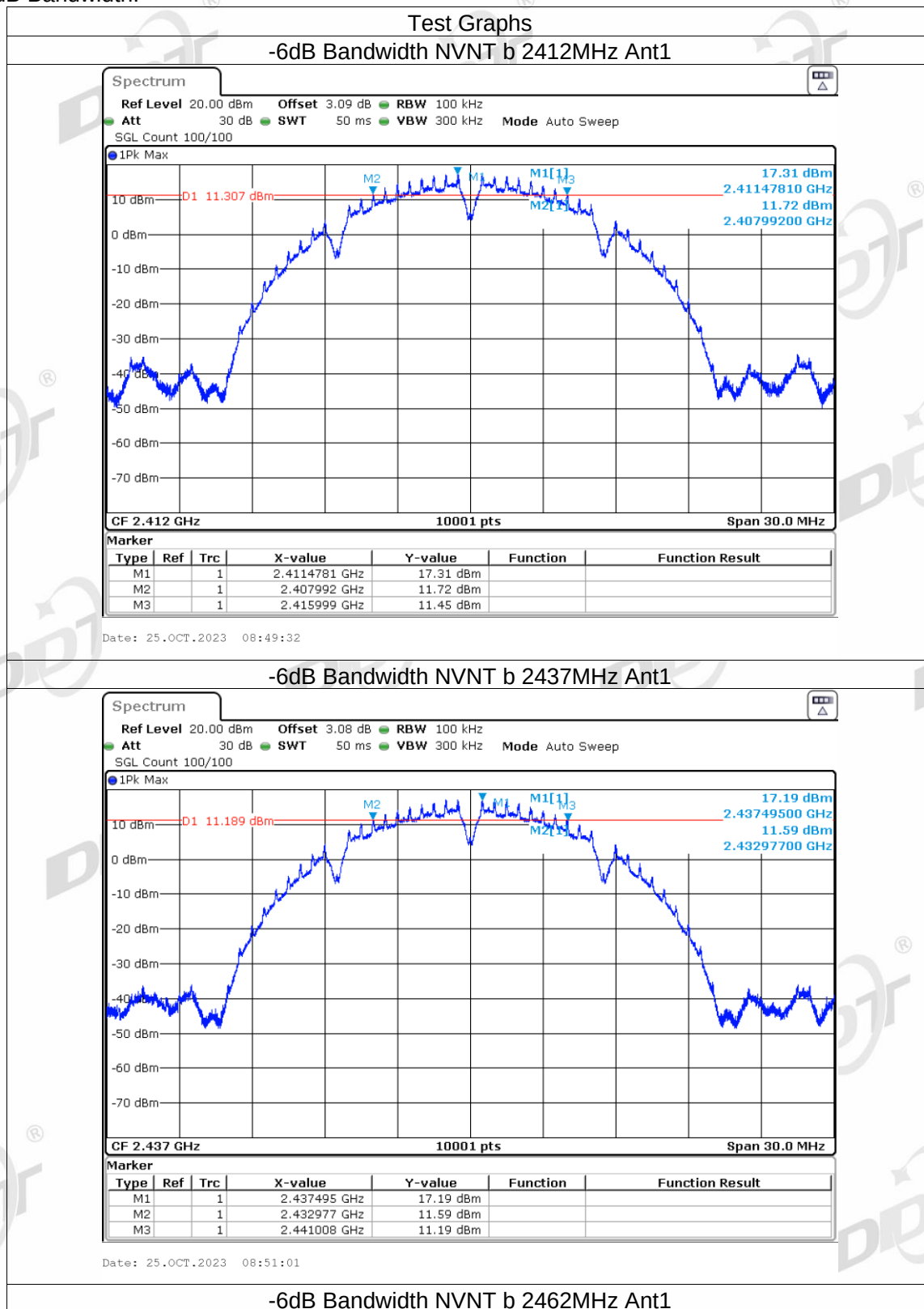
4.4. Test result

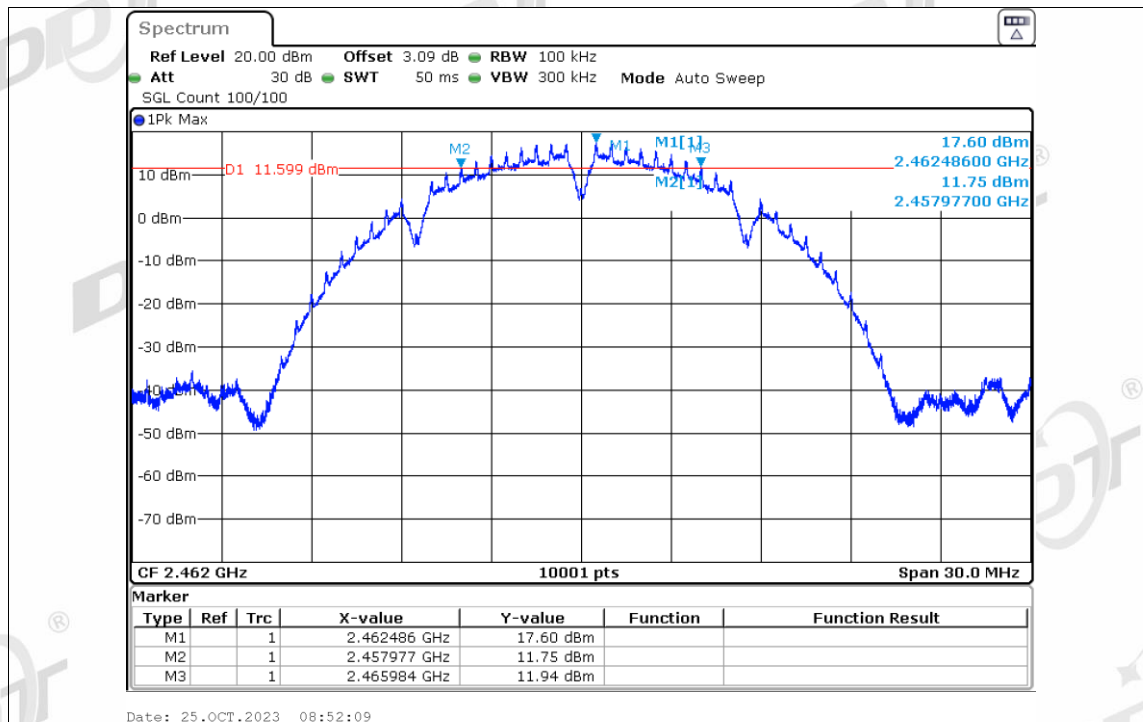
Test Mode	Test Channel	Antenna	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
b	2412	Ant1	8.007	≥ 0.5	Pass
b	2437	Ant1	8.031	≥ 0.5	Pass
b	2462	Ant1	8.007	≥ 0.5	Pass
b	2412	Ant2	8.031	≥ 0.5	Pass
b	2437	Ant2	8.019	≥ 0.5	Pass
b	2462	Ant2	8.046	≥ 0.5	Pass
q	2412	Ant1	15.312	≥ 0.5	Pass
q	2437	Ant1	15.111	≥ 0.5	Pass
q	2462	Ant1	15.105	≥ 0.5	Pass
q	2412	Ant2	15.411	≥ 0.5	Pass
q	2437	Ant2	15.102	≥ 0.5	Pass
q	2462	Ant2	15.102	≥ 0.5	Pass
ax20	2412	Ant1	17.811	≥ 0.5	Pass
ax20	2412	Ant2	18.030	≥ 0.5	Pass
ax20	2437	Ant1	15.546	≥ 0.5	Pass
ax20	2437	Ant2	15.321	≥ 0.5	Pass
ax20	2462	Ant1	15.516	≥ 0.5	Pass
ax20	2462	Ant2	15.786	≥ 0.5	Pass
ax40	2422	Ant1	36.486	≥ 0.5	Pass
ax40	2422	Ant2	35.772	≥ 0.5	Pass
ax40	2437	Ant1	35.784	≥ 0.5	Pass
ax40	2437	Ant2	36.258	≥ 0.5	Pass
ax40	2452	Ant1	36.054	≥ 0.5	Pass
ax40	2452	Ant2	35.784	≥ 0.5	Pass
n20	2412	Ant1	15.120	≥ 0.5	Pass
n20	2412	Ant2	15.927	≥ 0.5	Pass
n20	2437	Ant1	15.102	≥ 0.5	Pass
n20	2437	Ant2	16.254	≥ 0.5	Pass
n20	2462	Ant1	15.090	≥ 0.5	Pass
n20	2462	Ant2	16.293	≥ 0.5	Pass
n40	2422	Ant1	35.082	≥ 0.5	Pass
n40	2422	Ant2	35.070	≥ 0.5	Pass
n40	2437	Ant1	35.076	≥ 0.5	Pass
n40	2437	Ant2	35.058	≥ 0.5	Pass
n40	2452	Ant1	35.088	≥ 0.5	Pass
n40	2452	Ant2	35.070	≥ 0.5	Pass

Test Mode	Test Channel	Antenna	99% OBW (MHz)	Limit (MHz)	Verdict
b	2412	Ant1	12.293	---	Pass
b	2437	Ant1	12.335	---	Pass
b	2462	Ant1	12.407	---	Pass
b	2412	Ant2	12.308	---	Pass
b	2437	Ant2	12.323	---	Pass
b	2462	Ant2	12.356	---	Pass
q	2412	Ant1	16.510	---	Pass
q	2437	Ant1	16.486	---	Pass
q	2462	Ant1	16.486	---	Pass
q	2412	Ant2	16.501	---	Pass
q	2437	Ant2	16.474	---	Pass
q	2462	Ant2	16.483	---	Pass
ax20	2412	Ant1	18.775	---	Pass
ax20	2412	Ant2	18.775	---	Pass
ax20	2437	Ant1	18.841	---	Pass
ax20	2437	Ant2	18.853	---	Pass
ax20	2462	Ant1	18.853	---	Pass
ax20	2462	Ant2	18.850	---	Pass
ax40	2422	Ant1	37.574	---	Pass
ax40	2422	Ant2	37.568	---	Pass
ax40	2437	Ant1	37.586	---	Pass
ax40	2437	Ant2	37.622	---	Pass
ax40	2452	Ant1	37.586	---	Pass
ax40	2452	Ant2	37.592	---	Pass
n20	2412	Ant1	17.614	---	Pass
n20	2412	Ant2	17.599	---	Pass
n20	2437	Ant1	17.620	---	Pass
n20	2437	Ant2	17.632	---	Pass
n20	2462	Ant1	17.626	---	Pass
n20	2462	Ant2	17.635	---	Pass
n40	2422	Ant1	36.206	---	Pass
n40	2422	Ant2	36.116	---	Pass
n40	2437	Ant1	36.290	---	Pass
n40	2437	Ant2	36.152	---	Pass
n40	2452	Ant1	36.254	---	Pass
n40	2452	Ant2	36.152	---	Pass

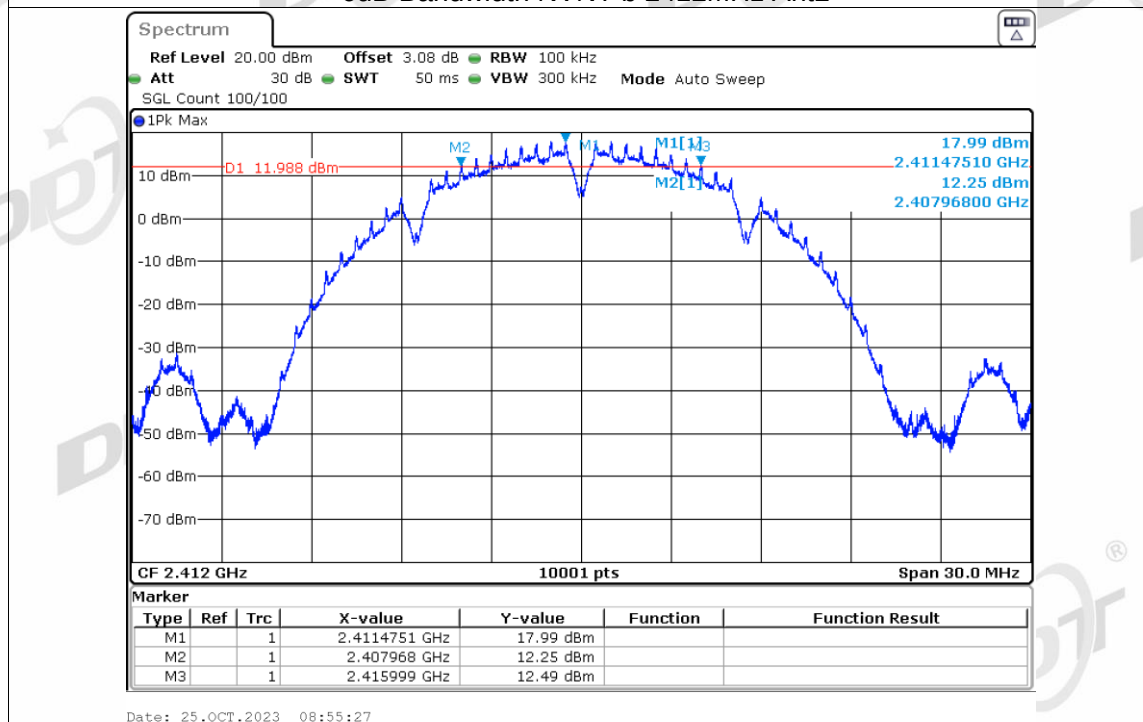
4.5. original test data

6dB Bandwidth:

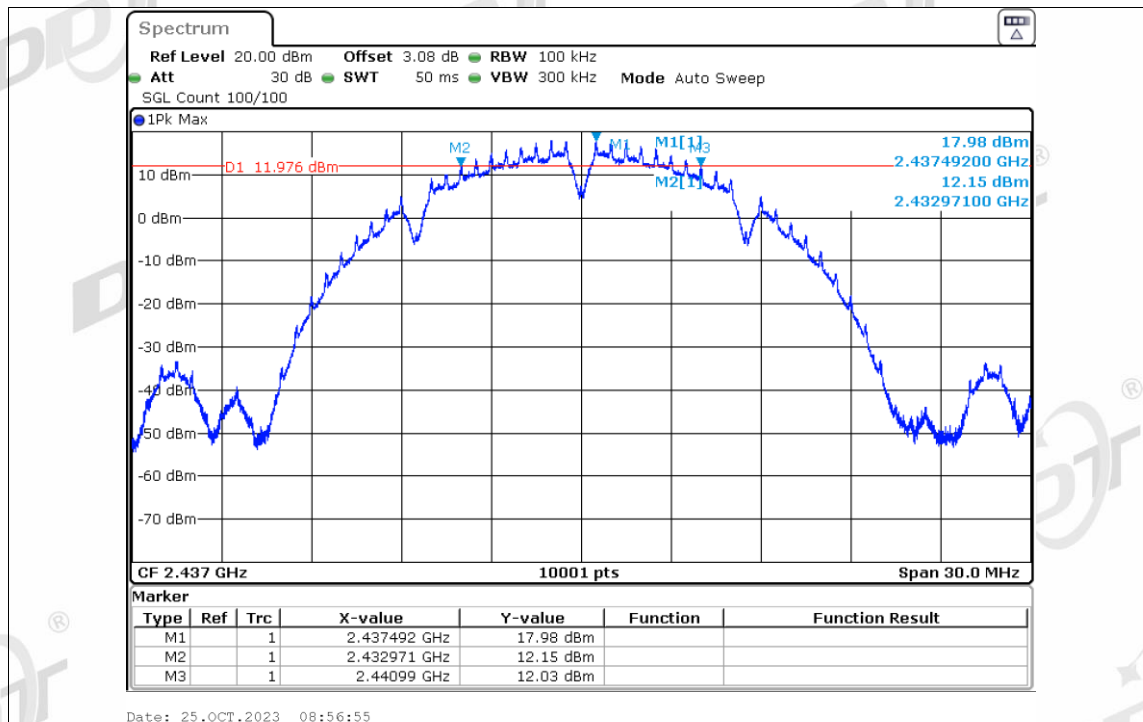




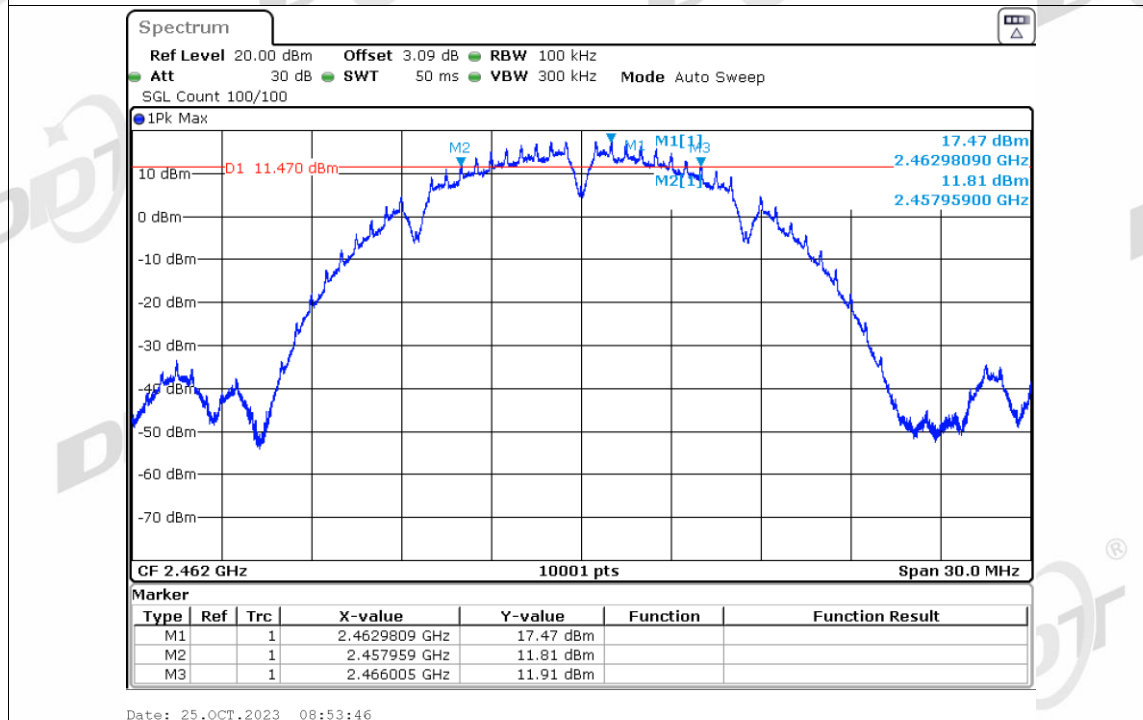
-6dB Bandwidth NVNT b 2412MHz Ant2



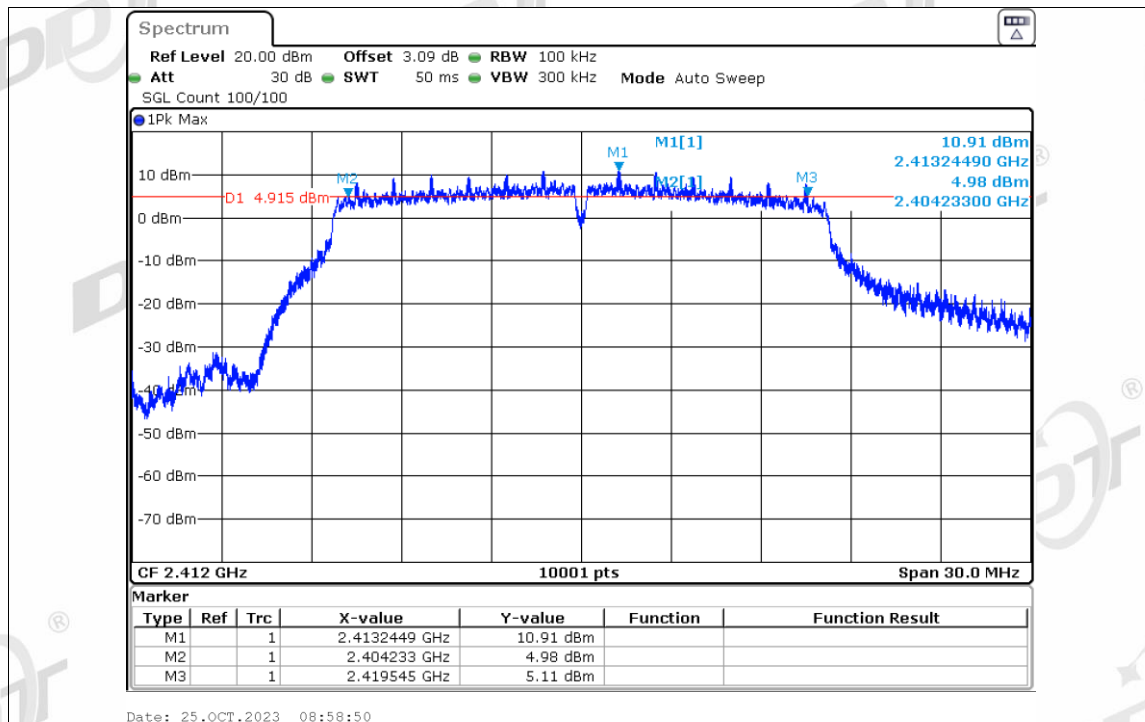
-6dB Bandwidth NVNT b 2437MHz Ant2



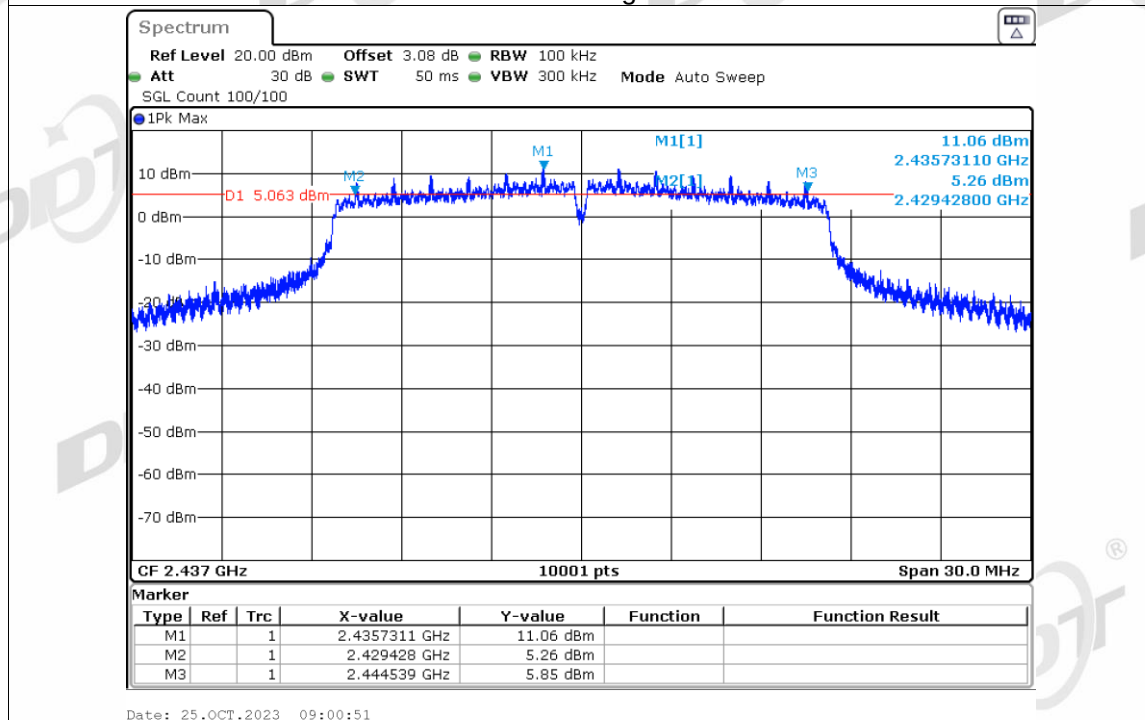
-6dB Bandwidth NVNT b 2462MHz Ant2



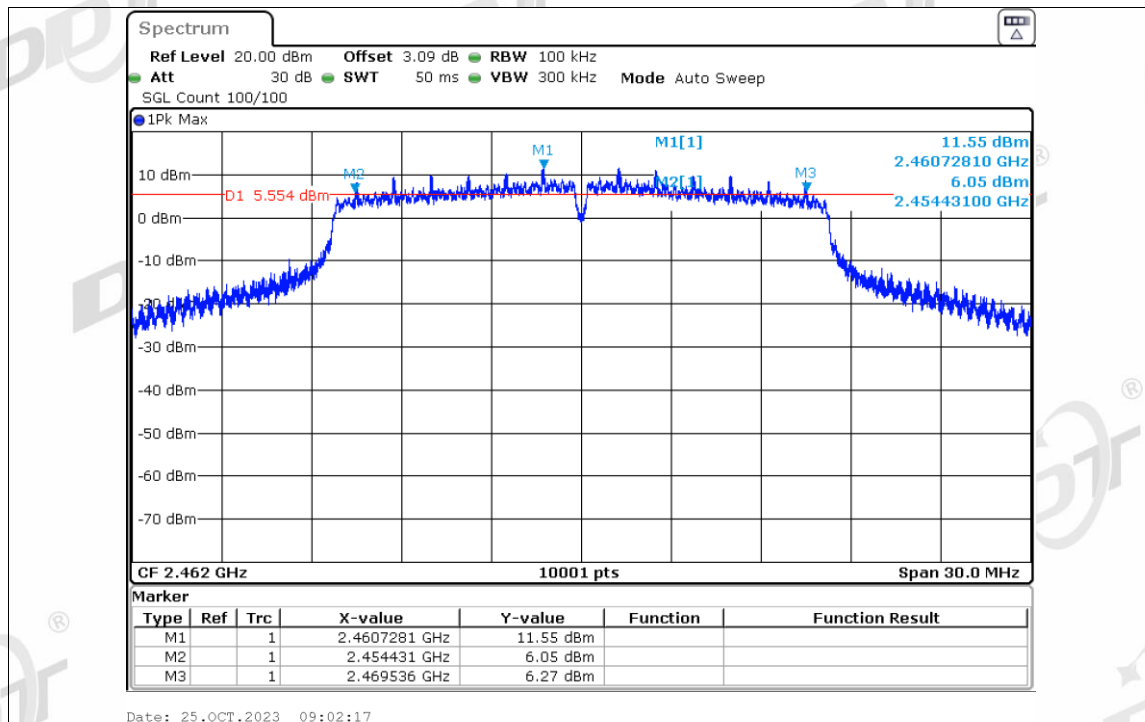
-6dB Bandwidth NVNT g 2412MHz Ant1



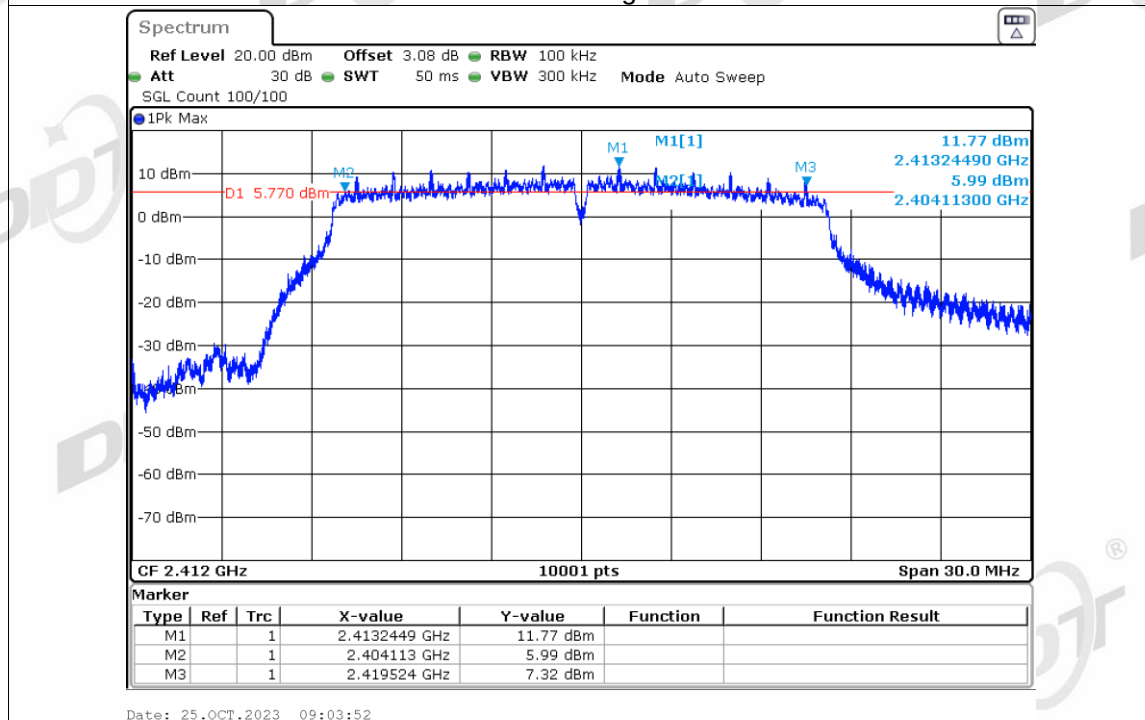
-6dB Bandwidth NVNT g 2437MHz Ant1



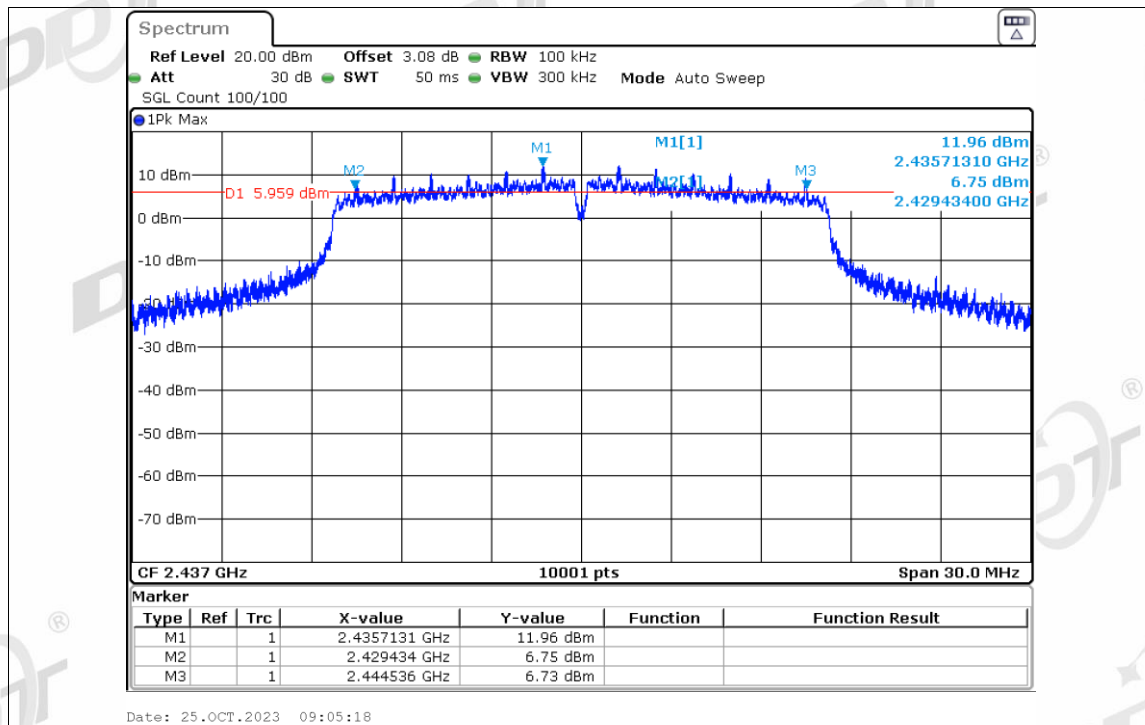
-6dB Bandwidth NVNT g 2462MHz Ant1



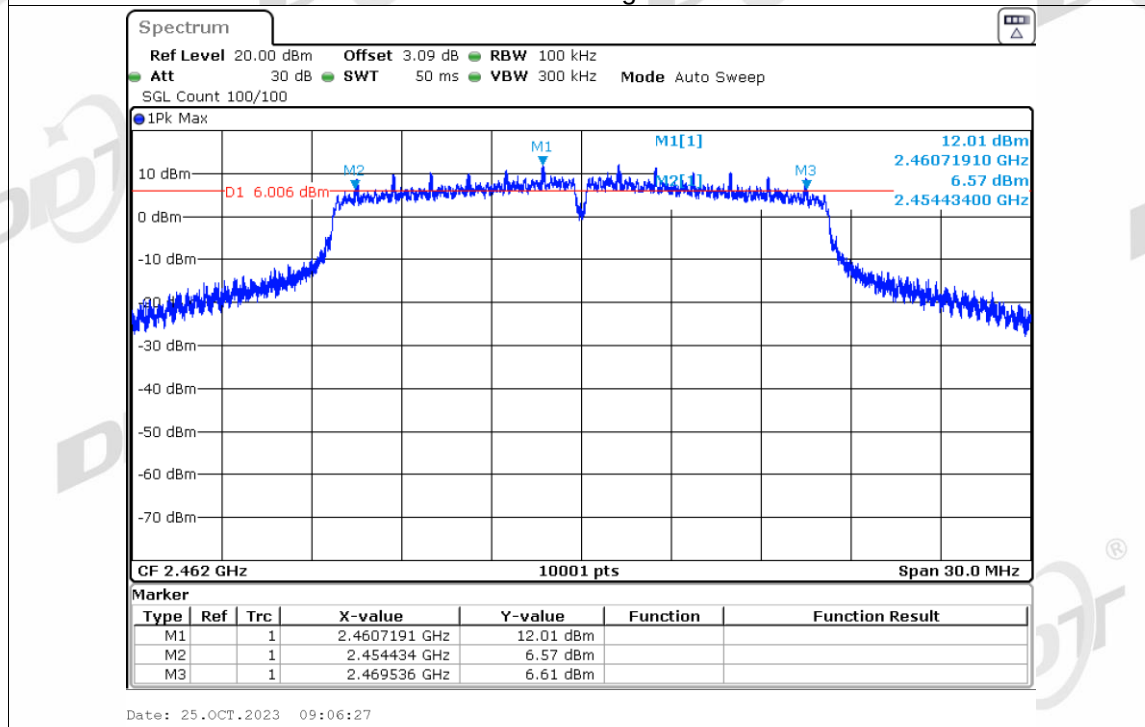
-6dB Bandwidth NVNT g 2412MHz Ant2



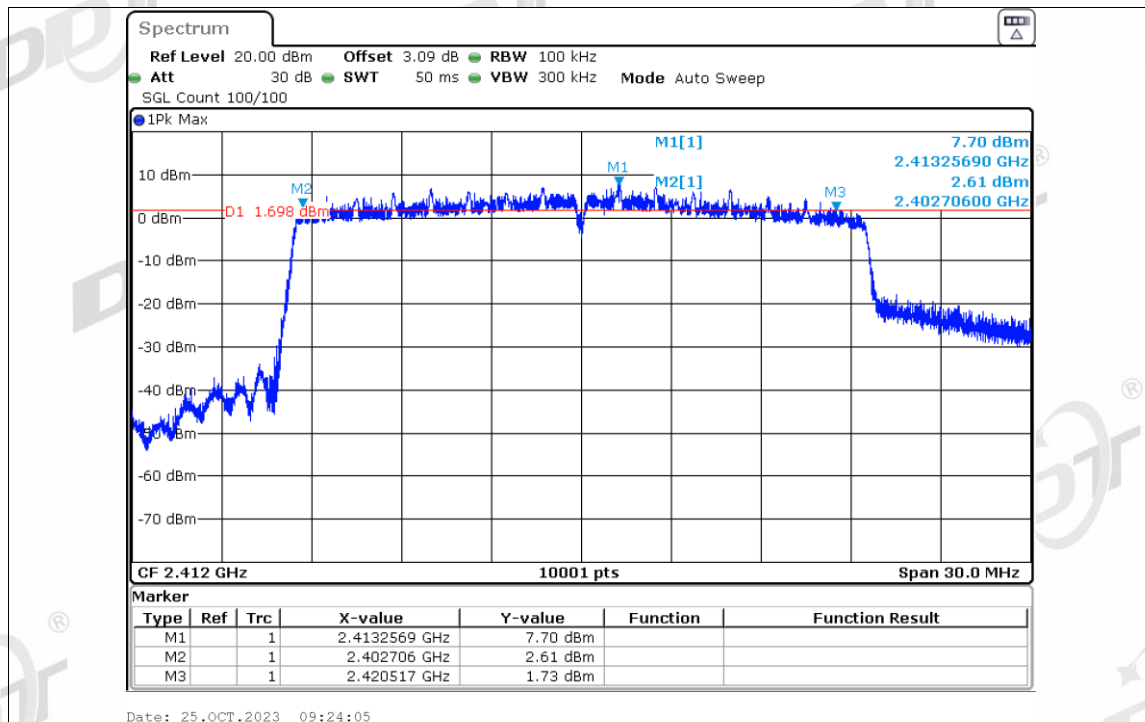
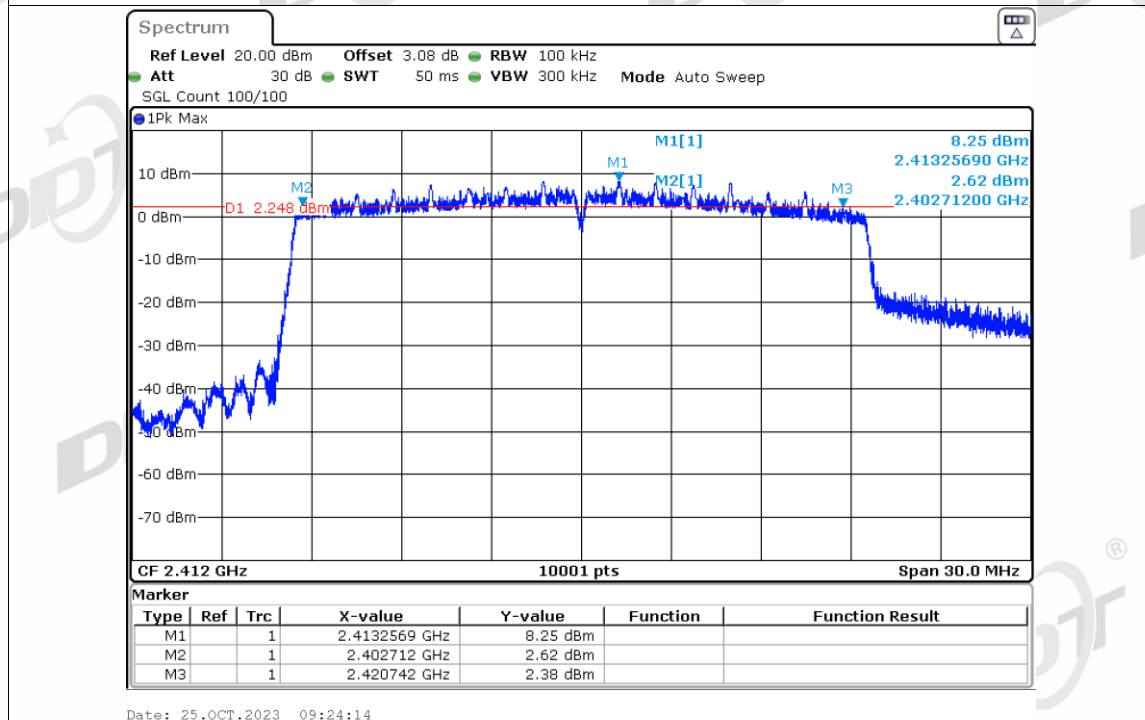
-6dB Bandwidth NVNT g 2437MHz Ant2

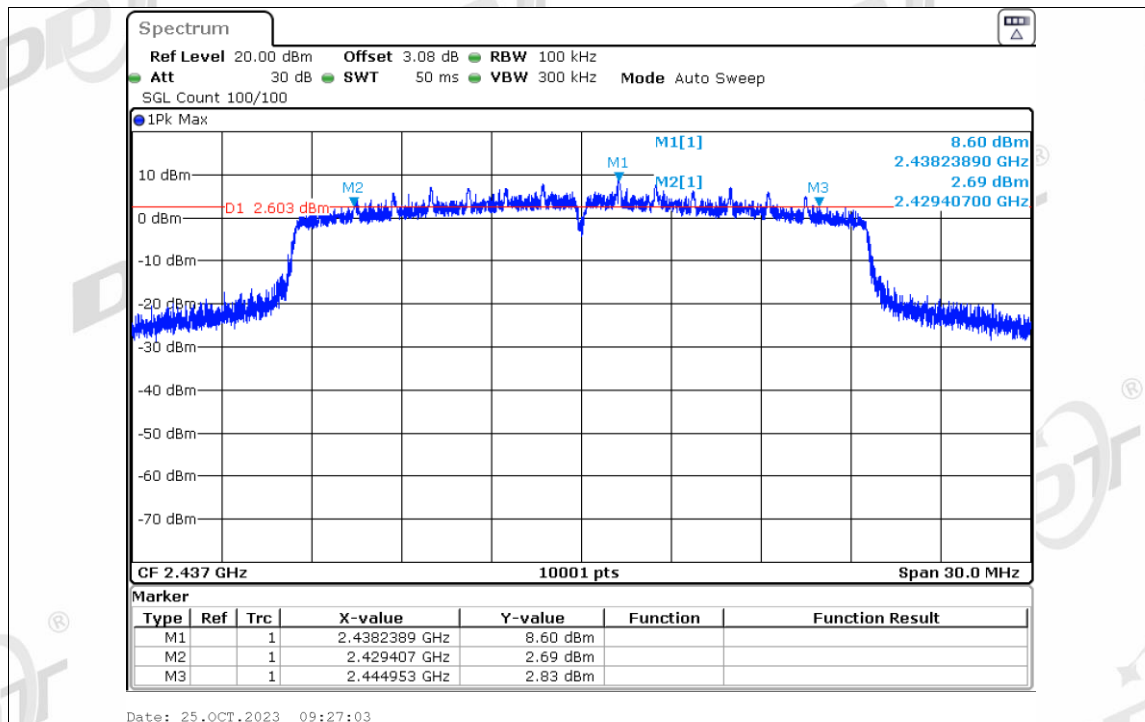


-6dB Bandwidth NVNT g 2462MHz Ant2

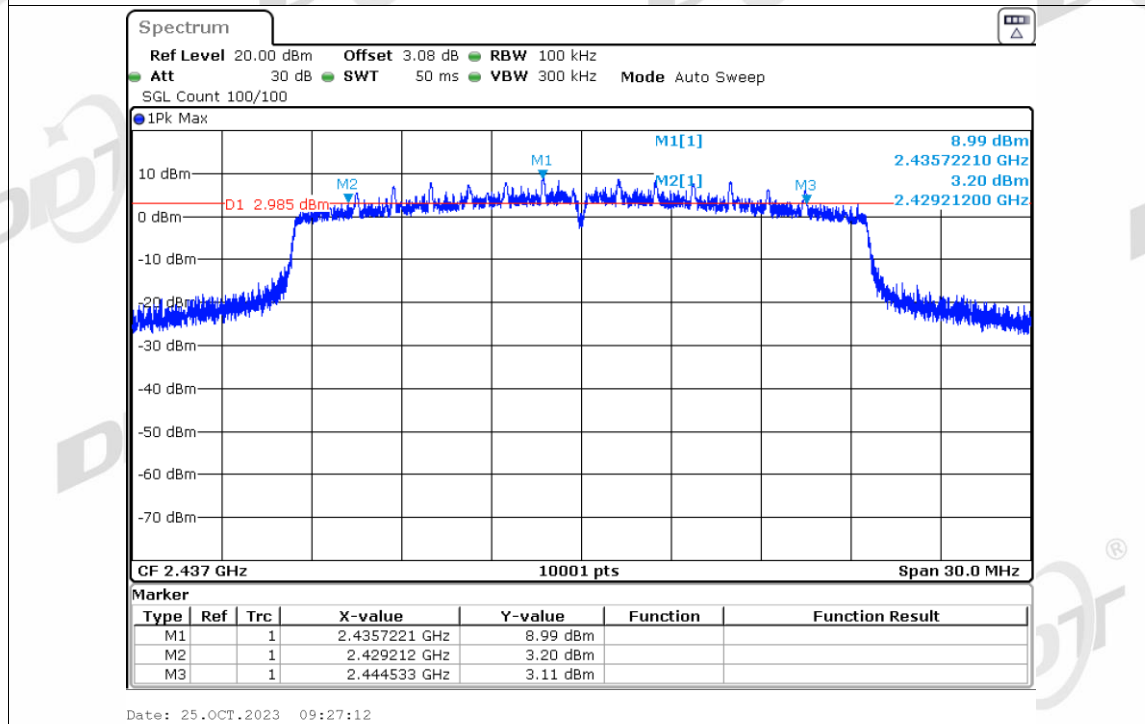


-6dB Bandwidth NVNT ax20 2412MHz Ant1

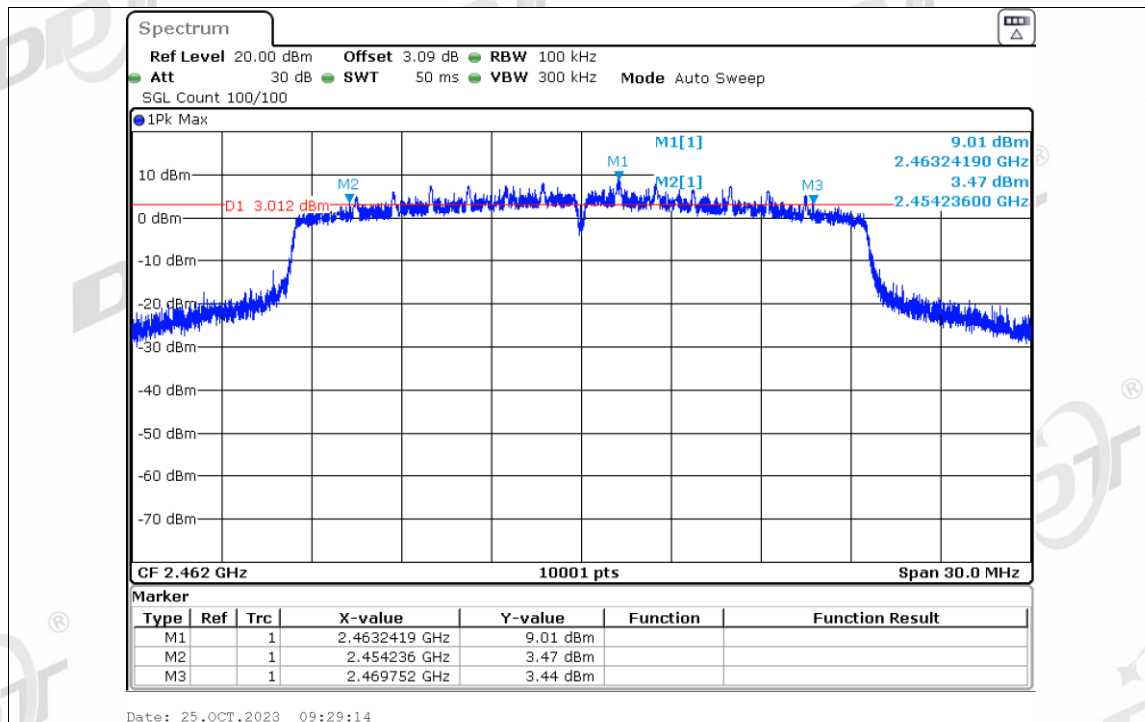
**-6dB Bandwidth NVNT ax20 2412MHz Ant2****-6dB Bandwidth NVNT ax20 2437MHz Ant1**



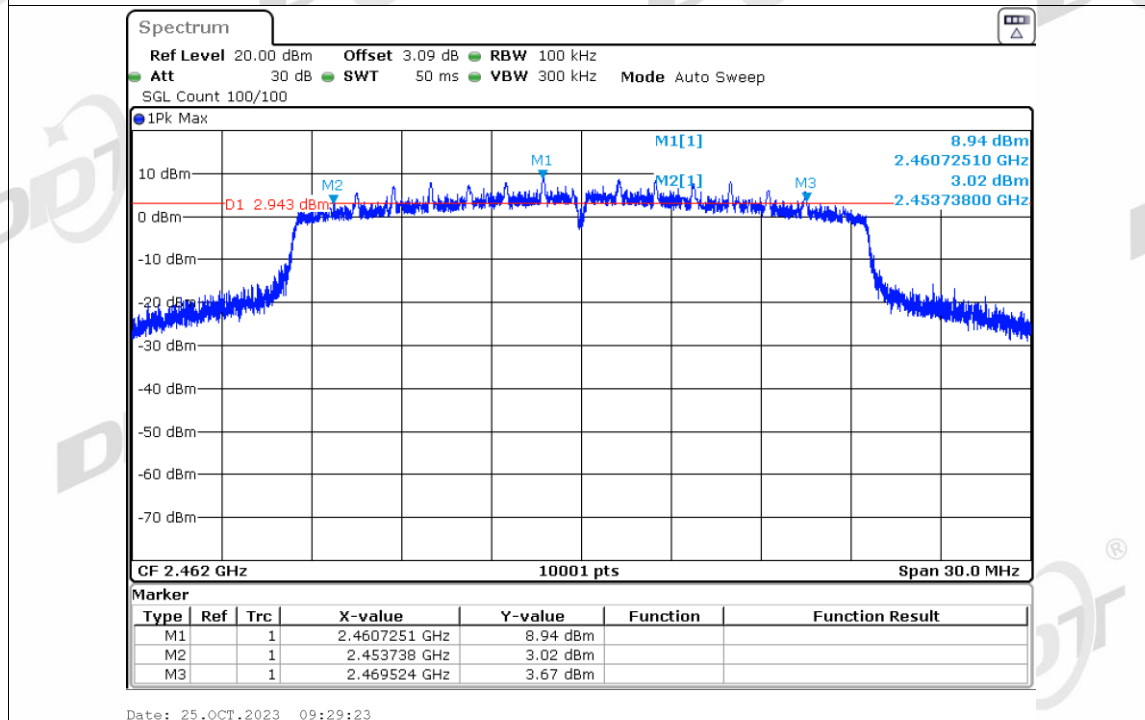
-6dB Bandwidth NVNT ax20 2437MHz Ant2



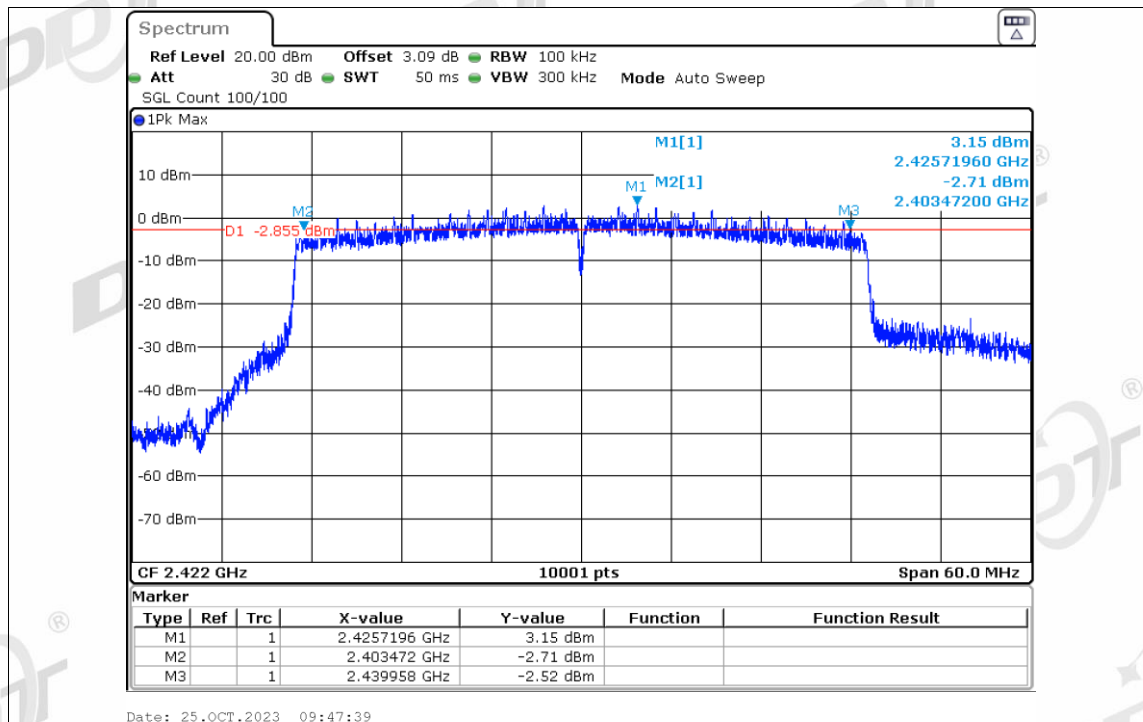
-6dB Bandwidth NVNT ax20 2462MHz Ant1



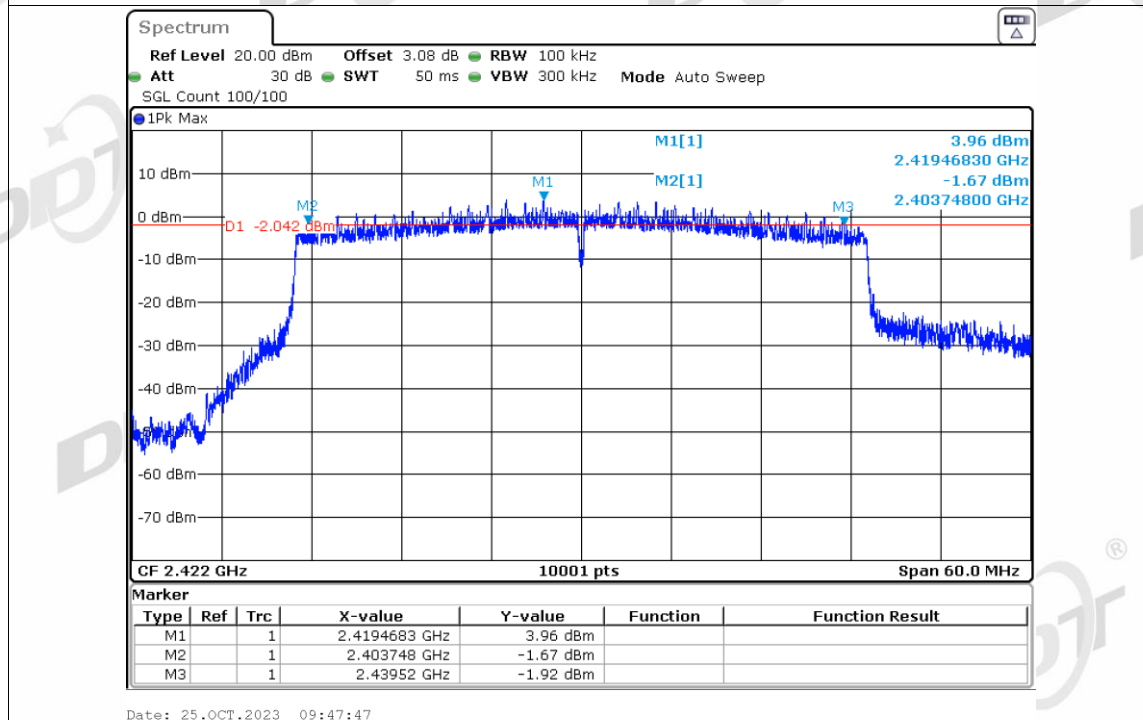
-6dB Bandwidth NVNT ax20 2462MHz Ant2



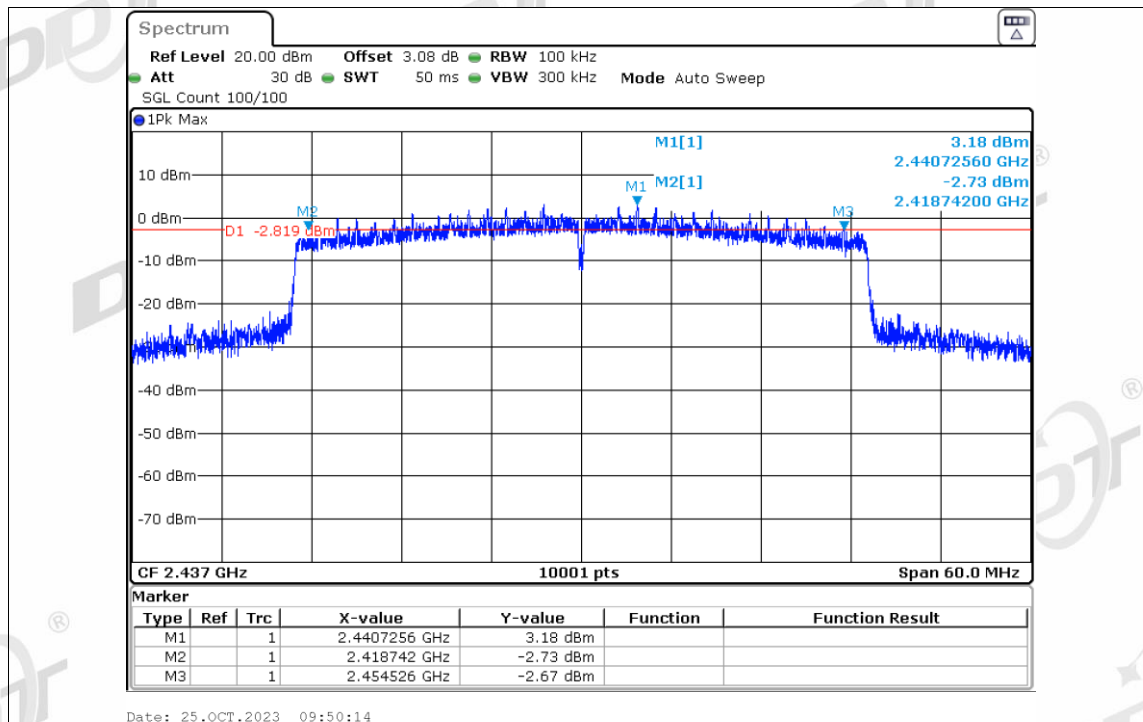
-6dB Bandwidth NVNT ax40 2422MHz Ant1



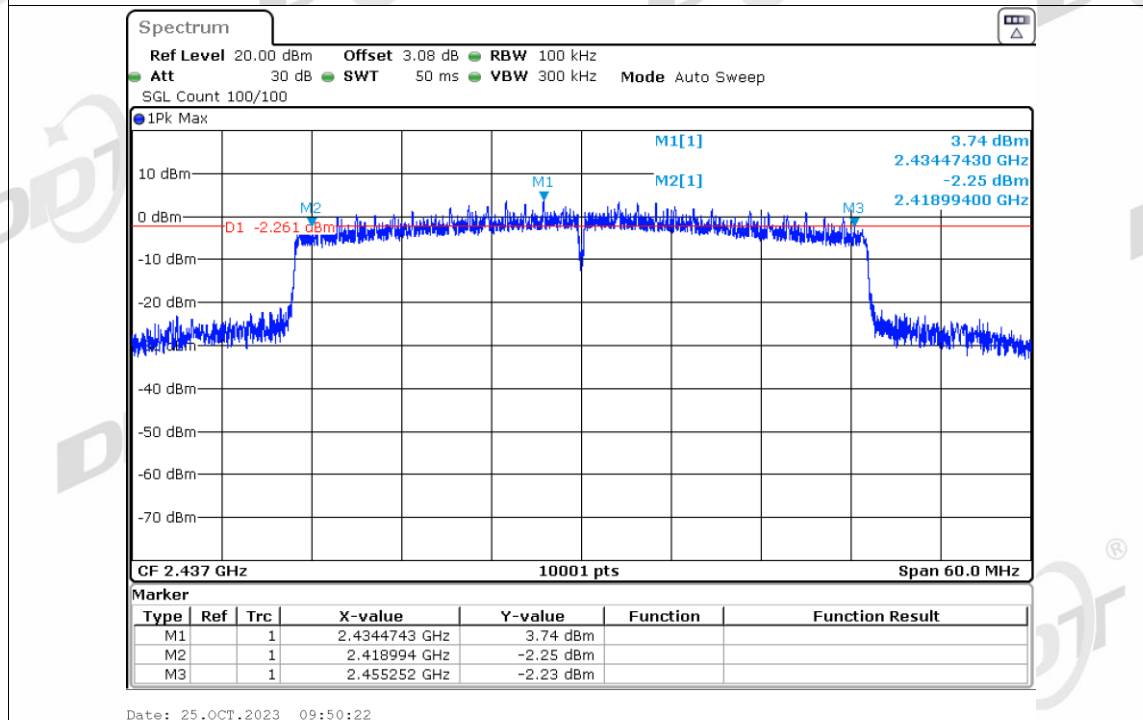
-6dB Bandwidth NVNT ax40 2422MHz Ant2



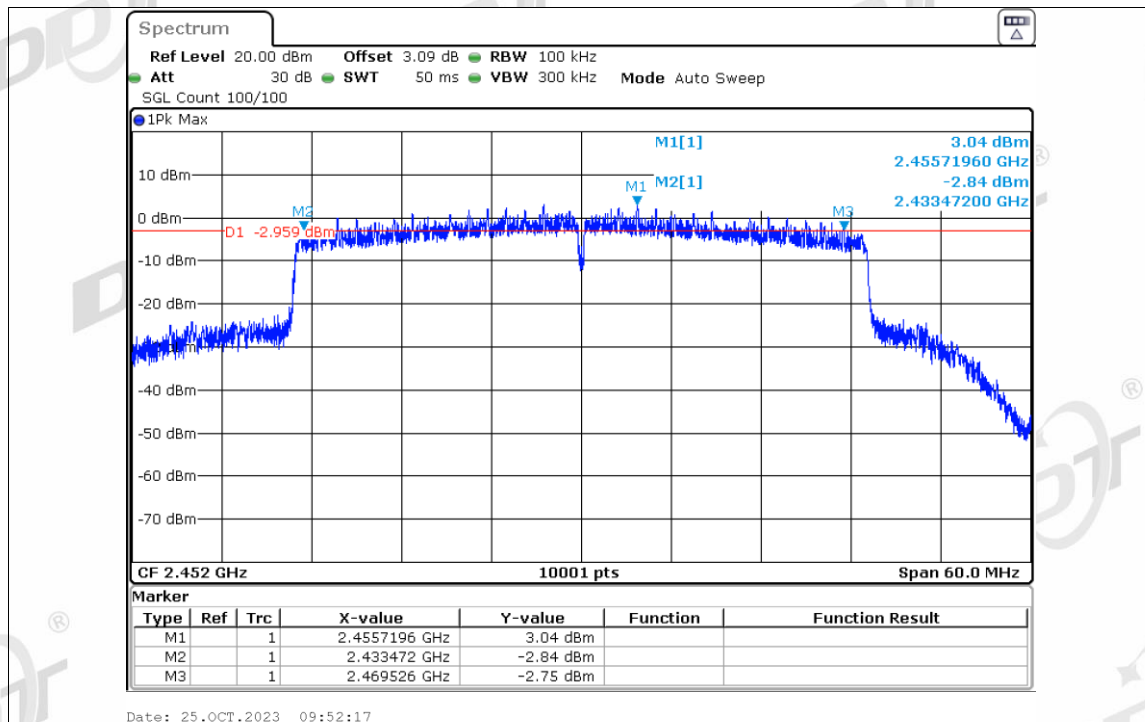
-6dB Bandwidth NVNT ax40 2437MHz Ant1



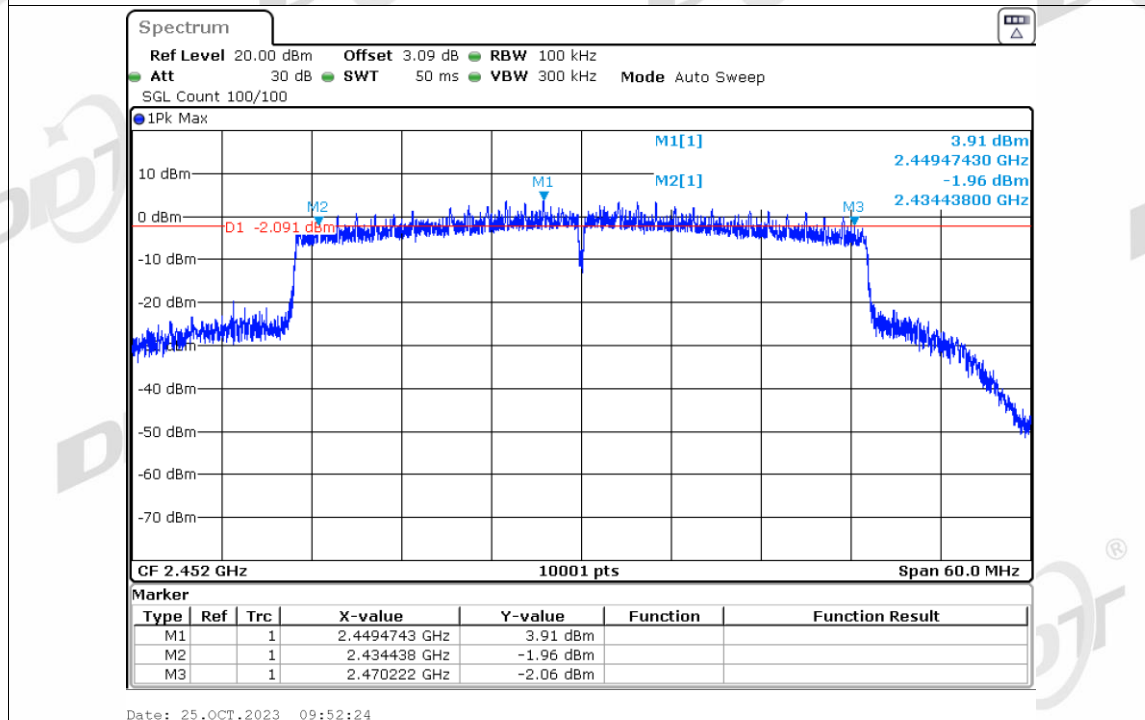
-6dB Bandwidth NVNT ax40 2437MHz Ant2



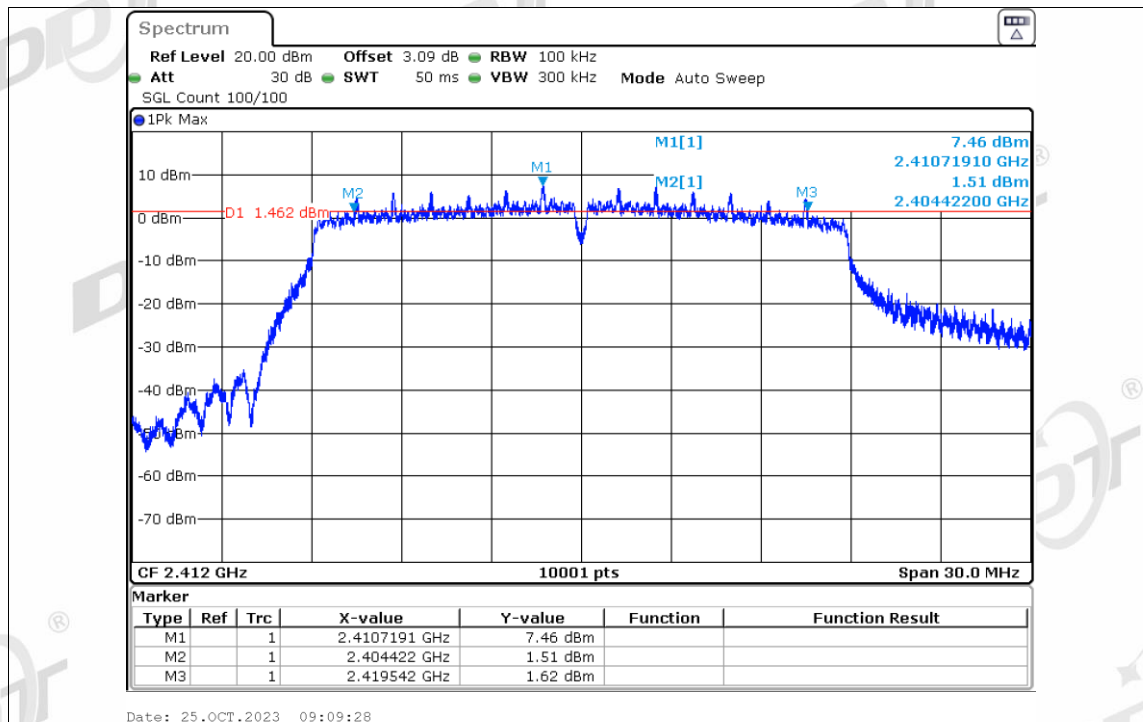
-6dB Bandwidth NVNT ax40 2452MHz Ant1



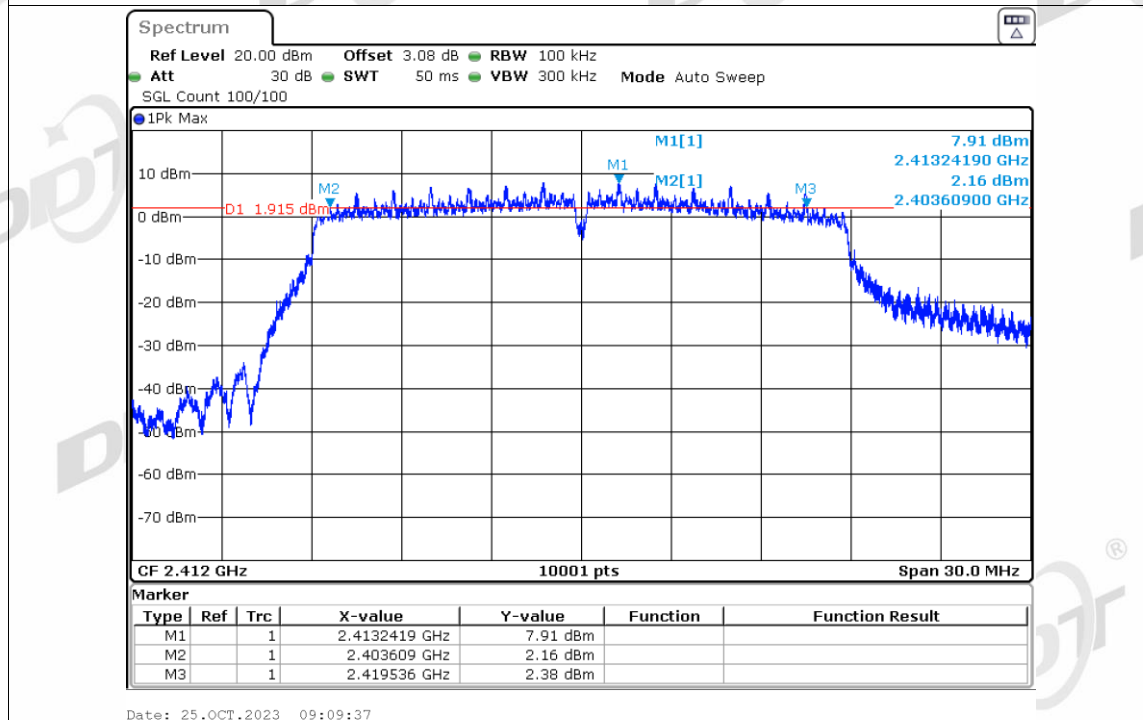
-6dB Bandwidth NVNT ax40 2452MHz Ant2



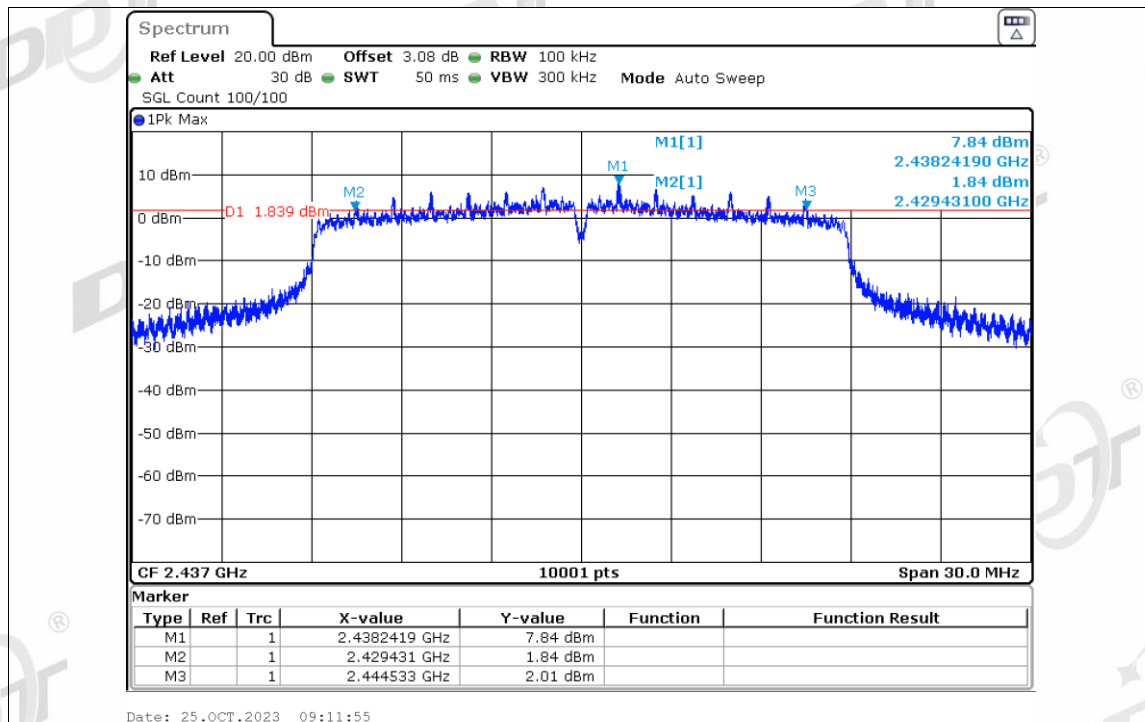
-6dB Bandwidth NVNT n20 2412MHz Ant1



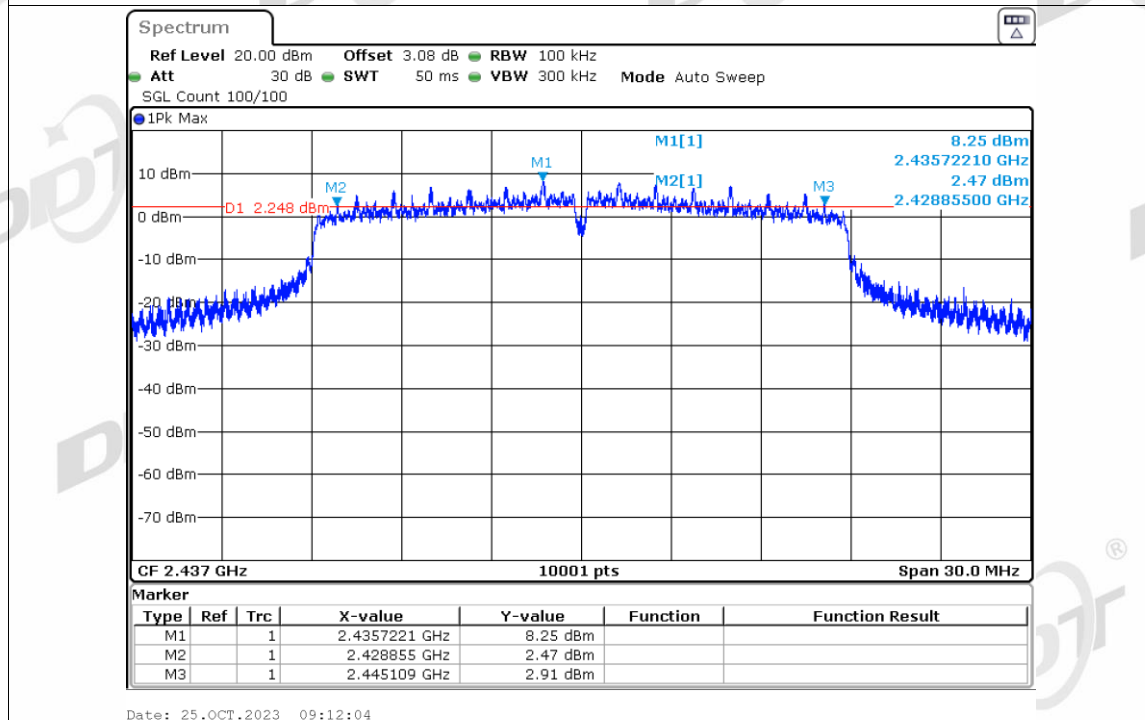
-6dB Bandwidth NVNT n20 2412MHz Ant2



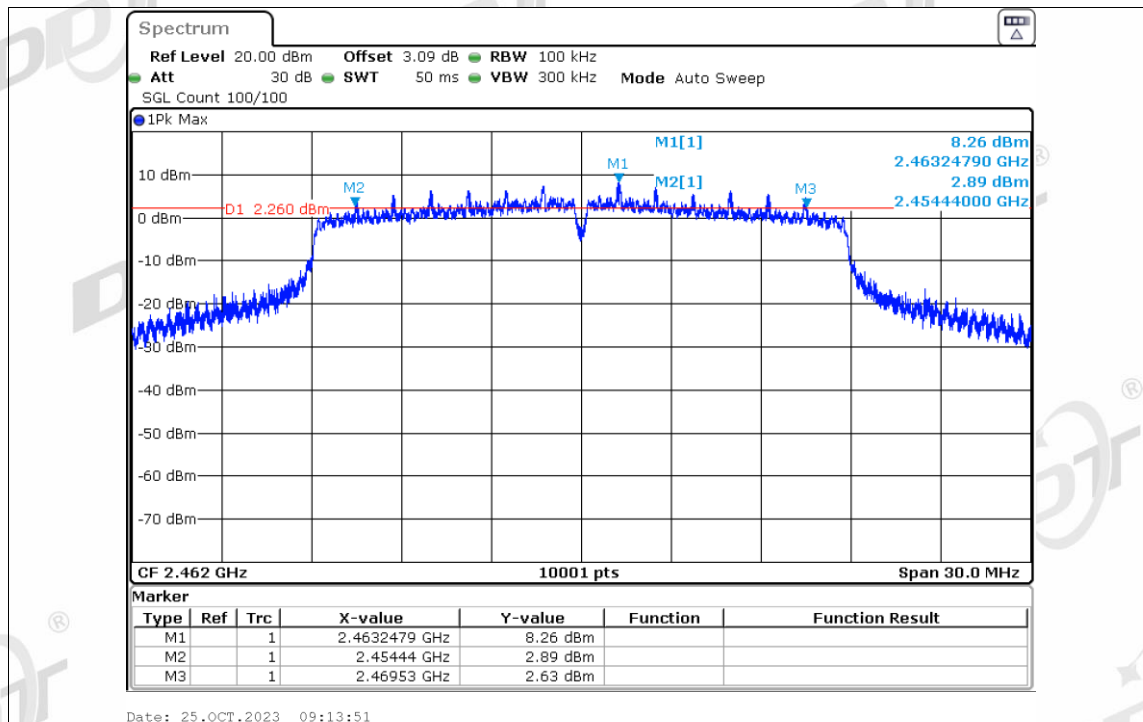
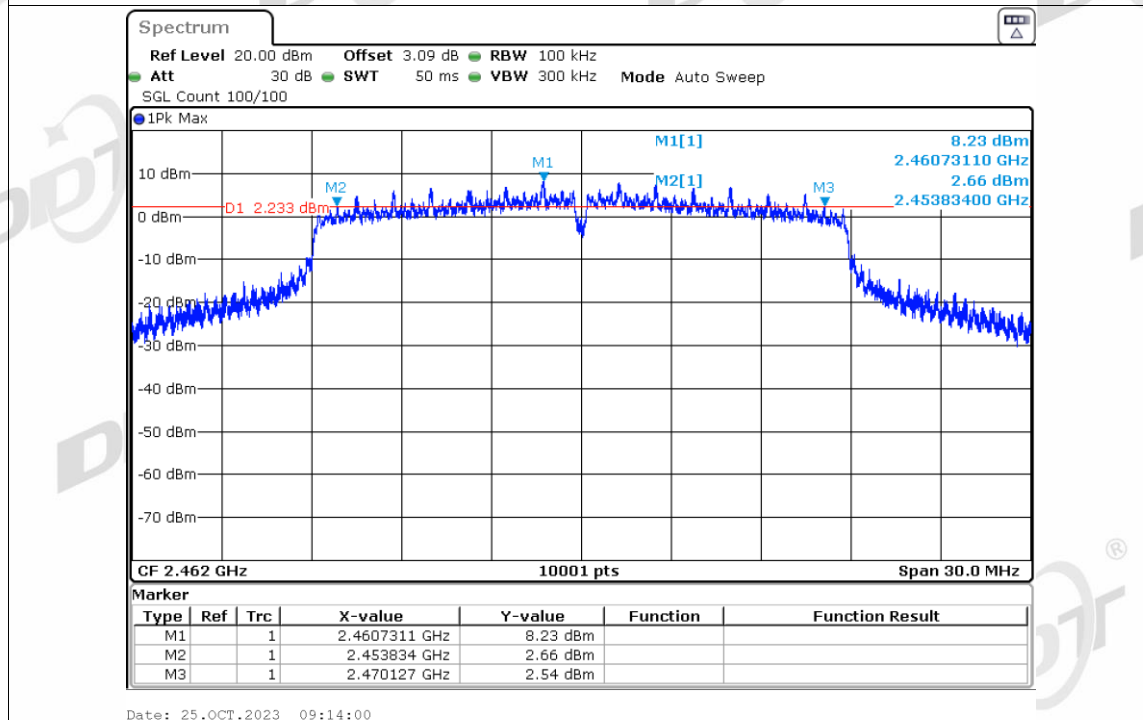
-6dB Bandwidth NVNT n20 2437MHz Ant1

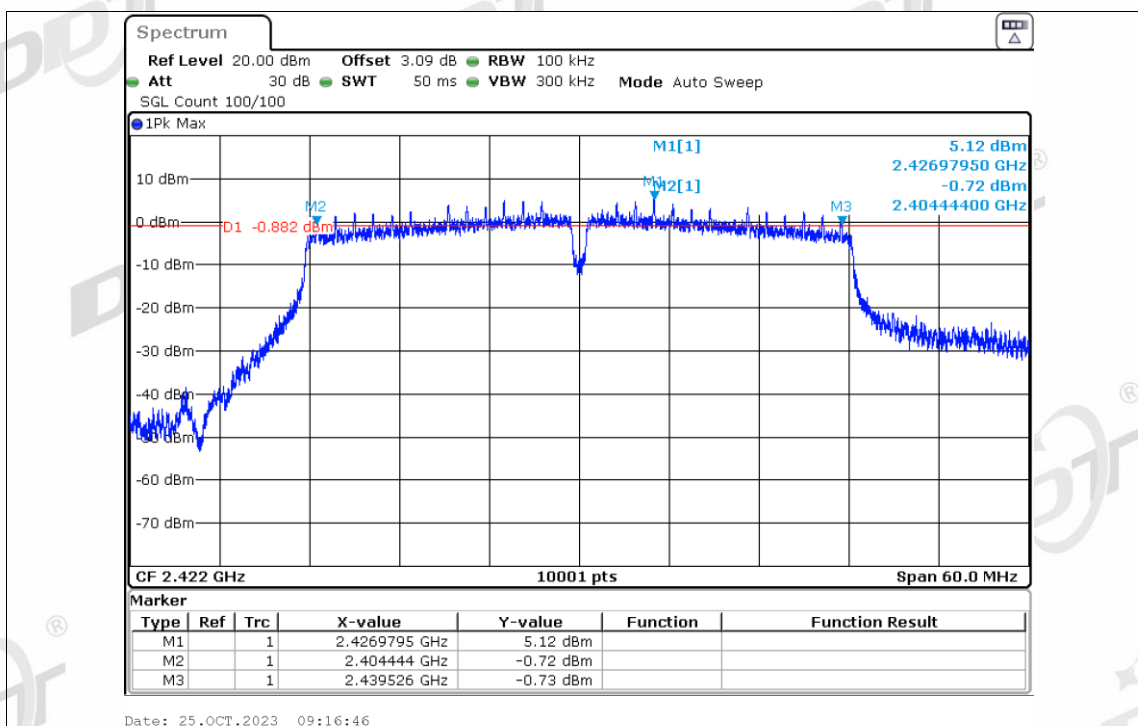


-6dB Bandwidth NVNT n20 2437MHz Ant2

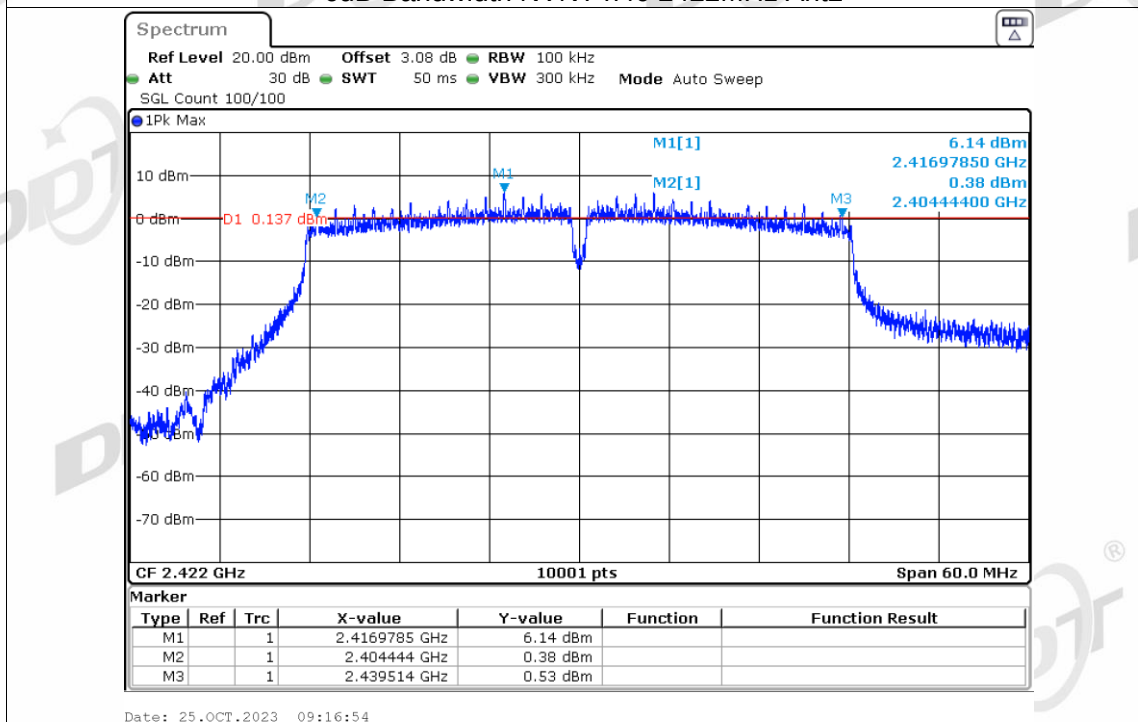


-6dB Bandwidth NVNT n20 2462MHz Ant1

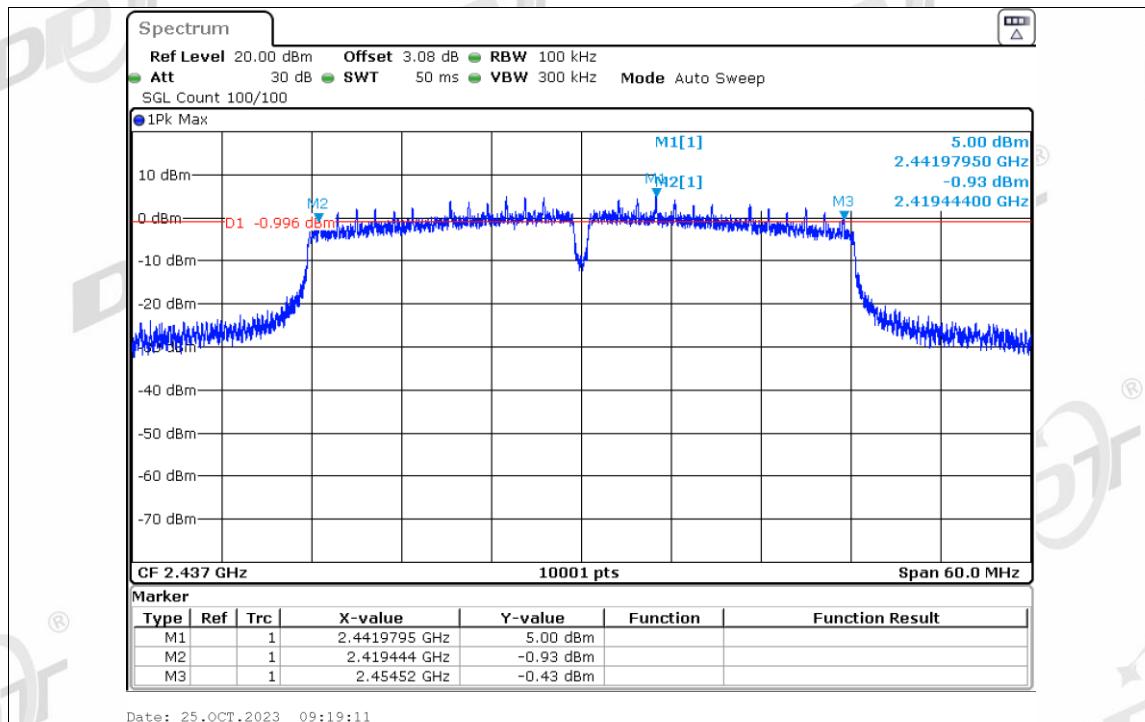
**-6dB Bandwidth NVNT n20 2462MHz Ant2****-6dB Bandwidth NVNT n40 2422MHz Ant1**



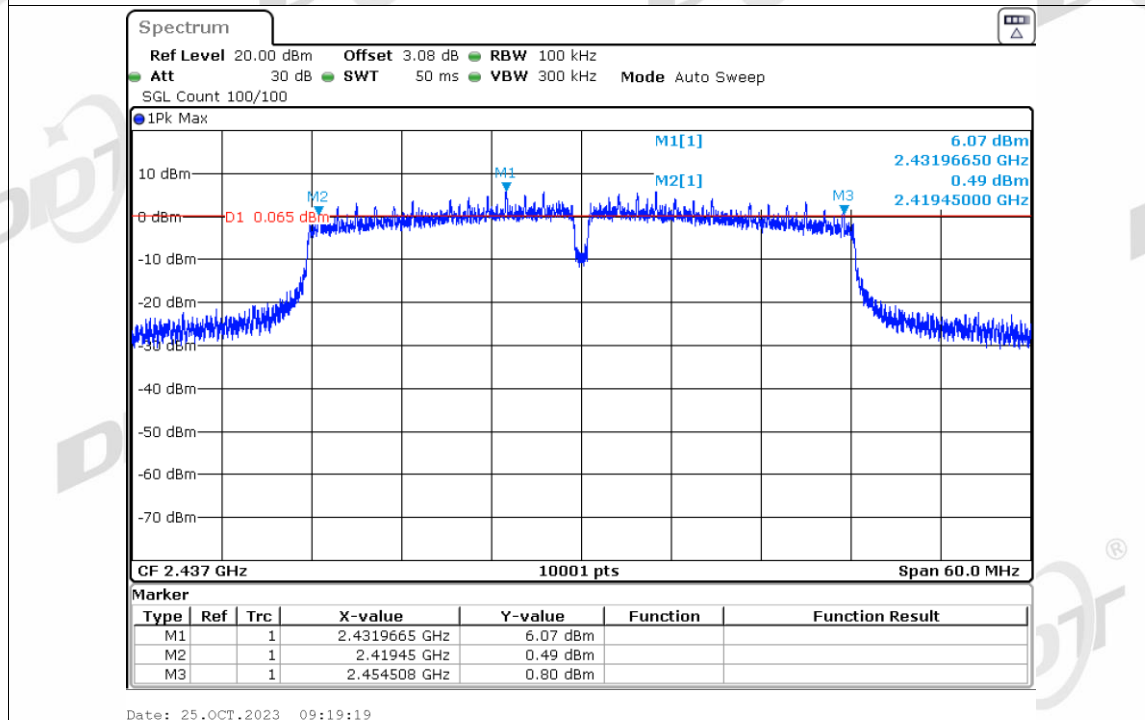
-6dB Bandwidth NVNT n40 2422MHz Ant2



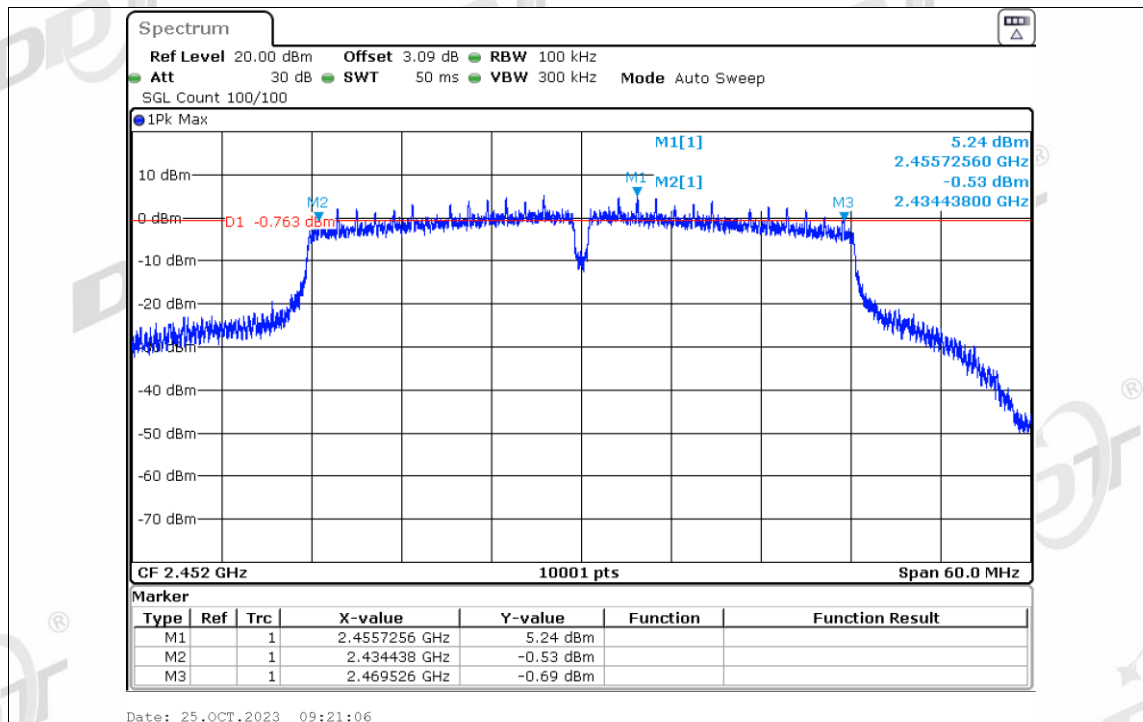
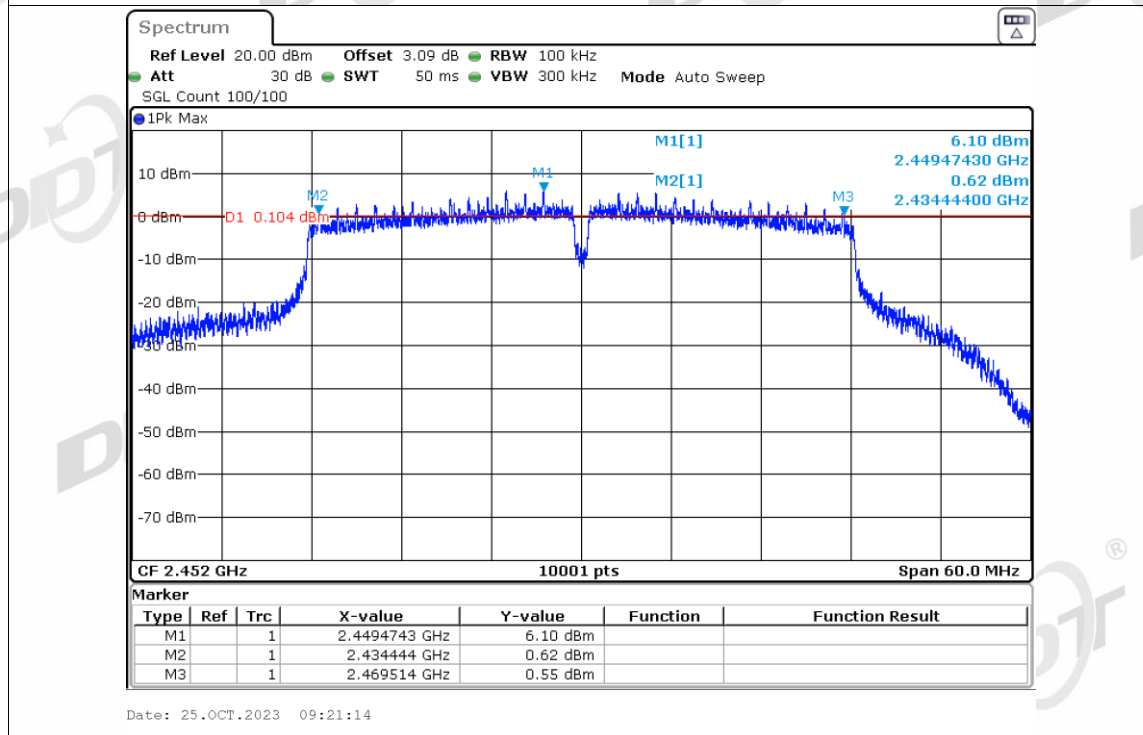
-6dB Bandwidth NVNT n40 2437MHz Ant1



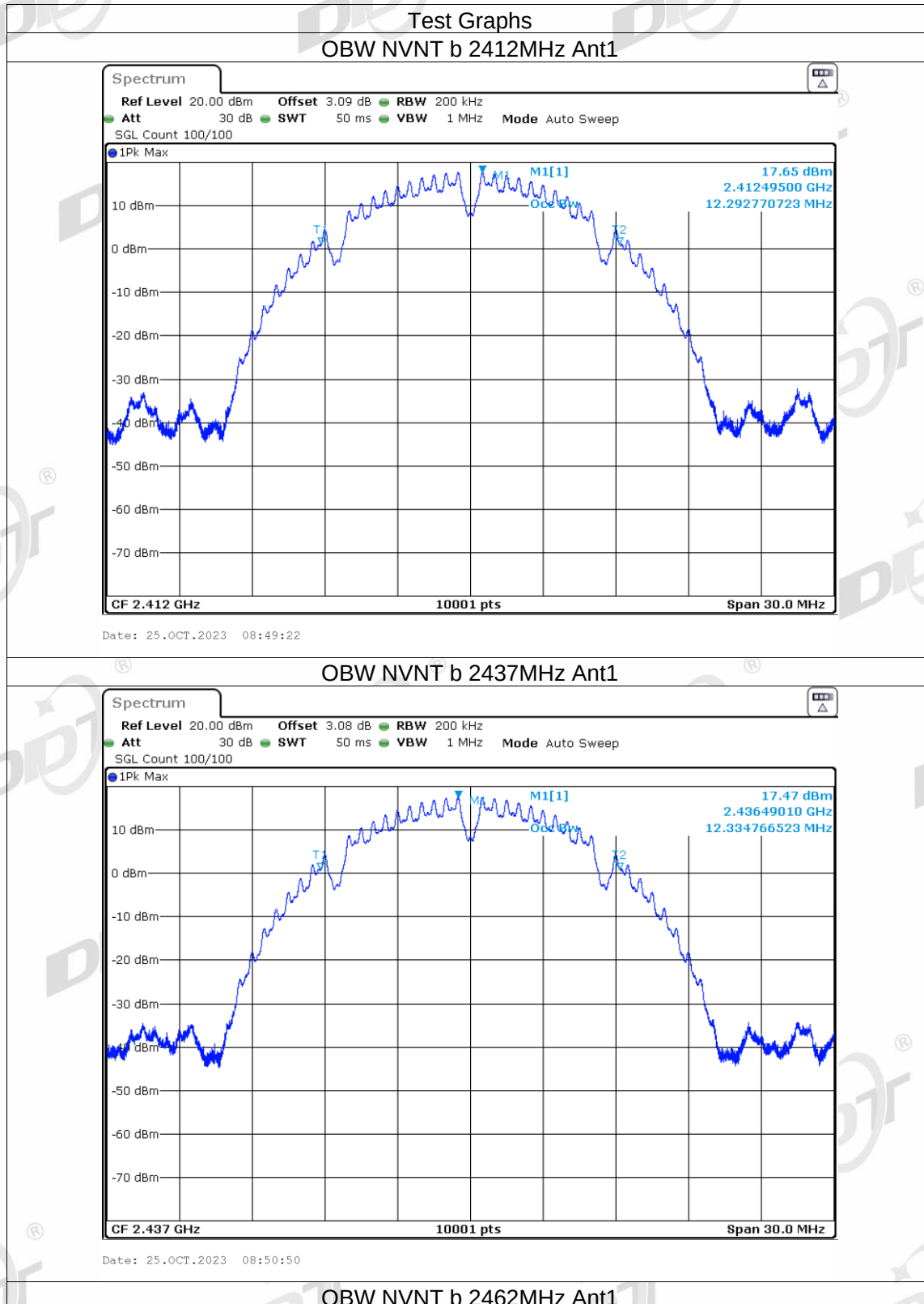
-6dB Bandwidth NVNT n40 2437MHz Ant2

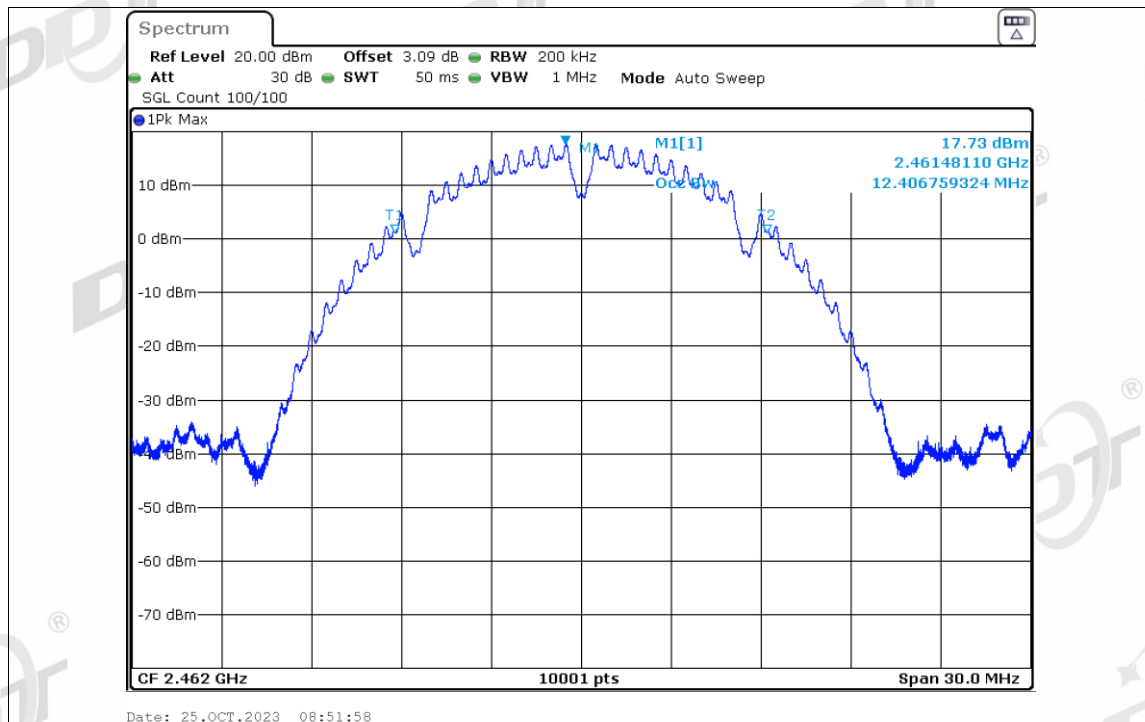


-6dB Bandwidth NVNT n40 2452MHz Ant1

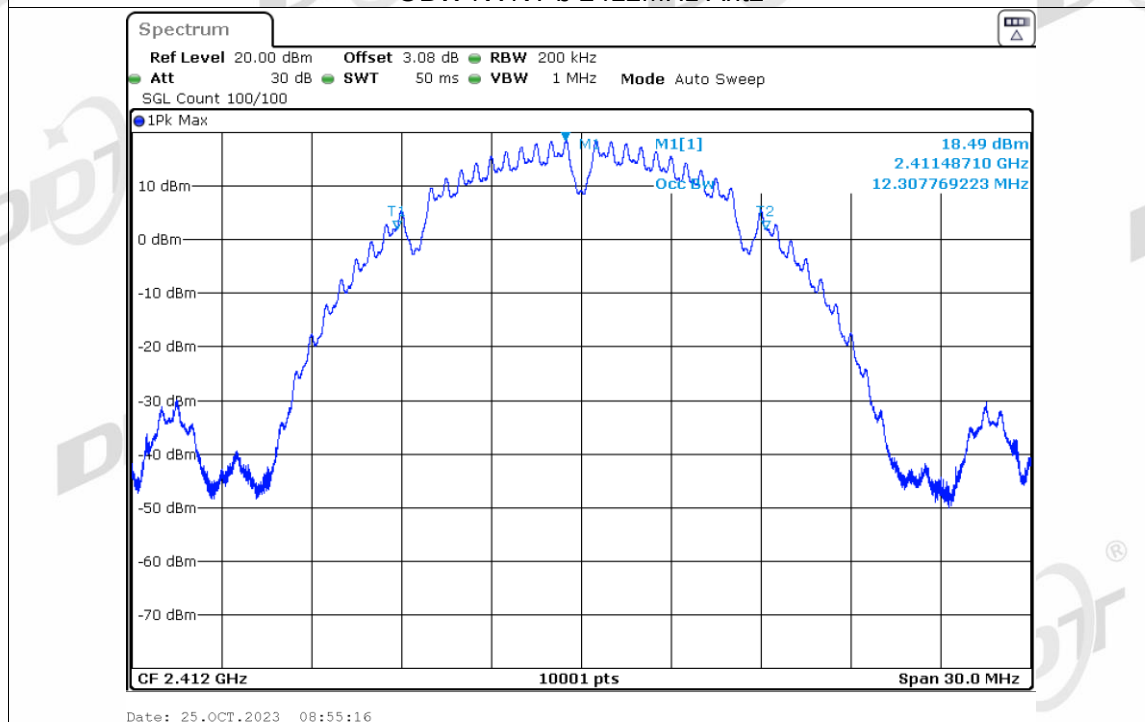
**-6dB Bandwidth NVNT n40 2452MHz Ant2**

99% Bandwidth

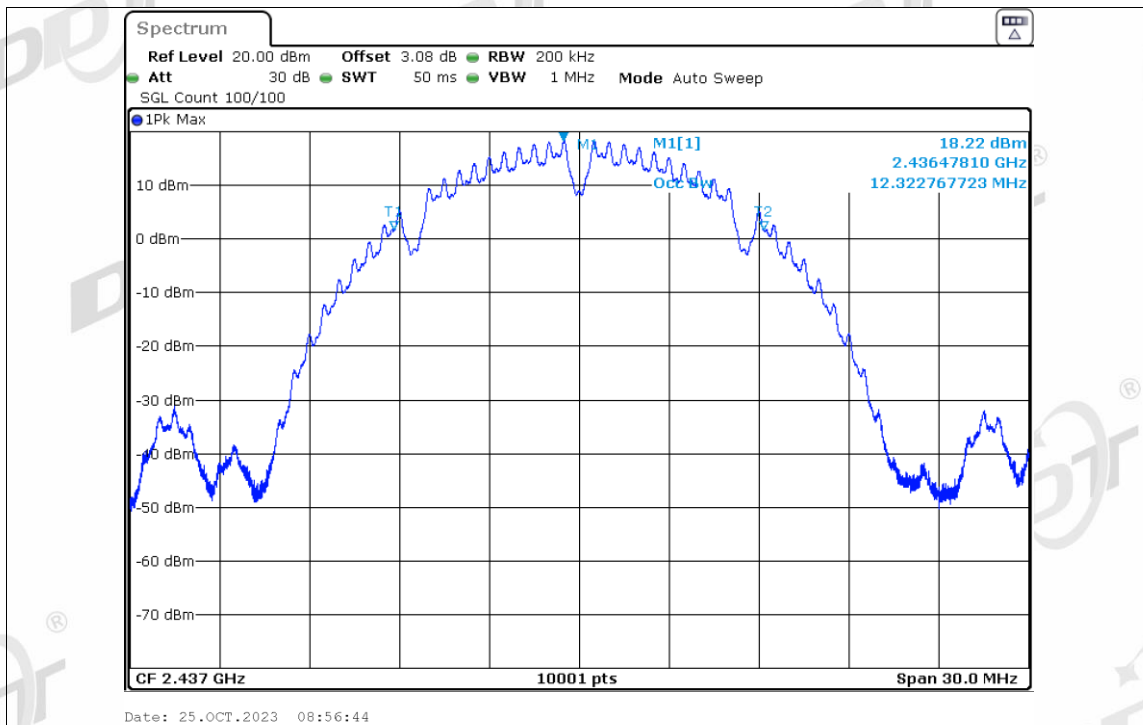




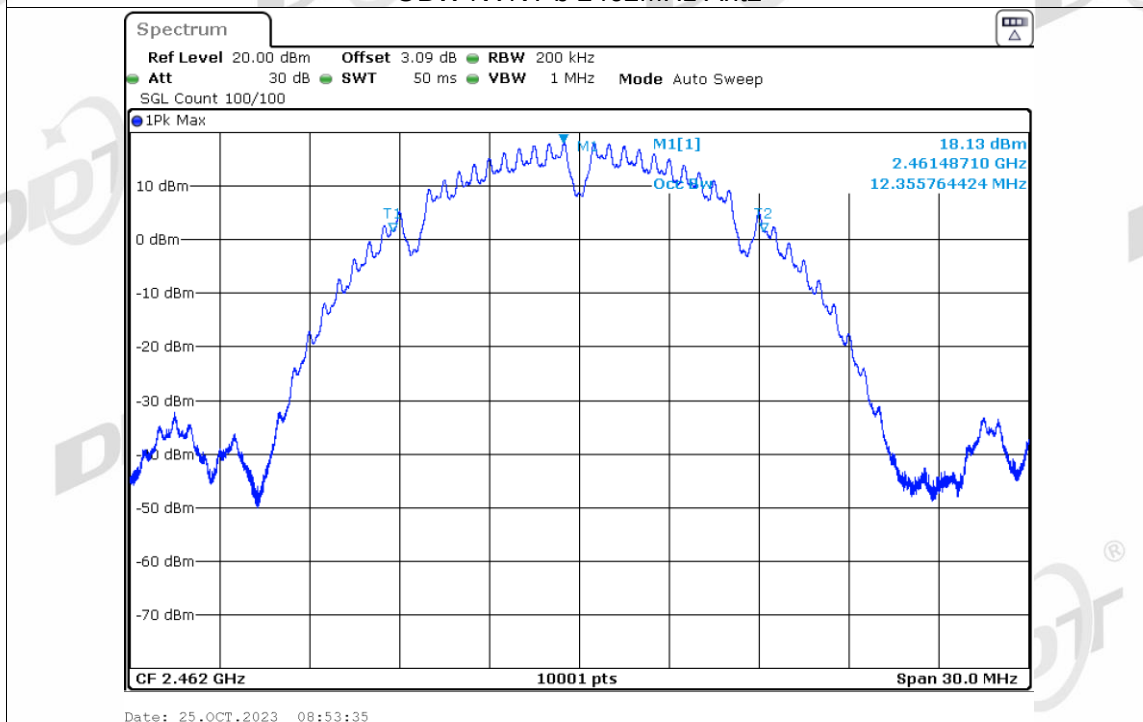
OBW NVNT b 2412MHz Ant2



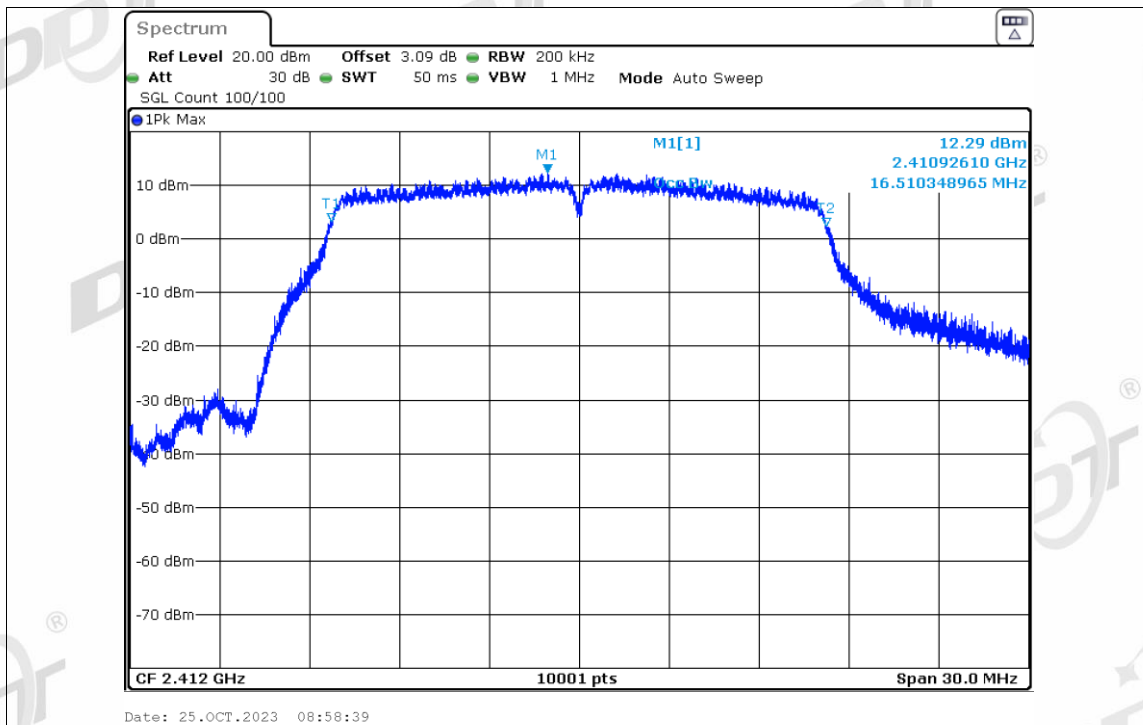
OBW NVNT b 2437MHz Ant2



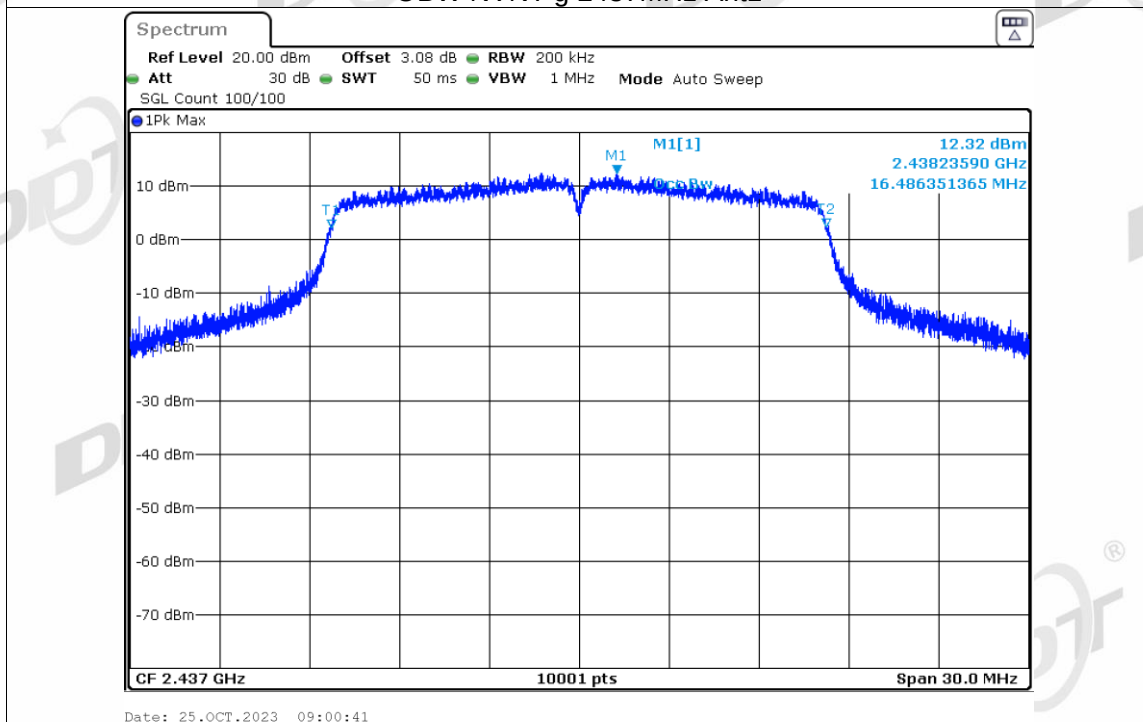
OBW NVNT b 2462MHz Ant2



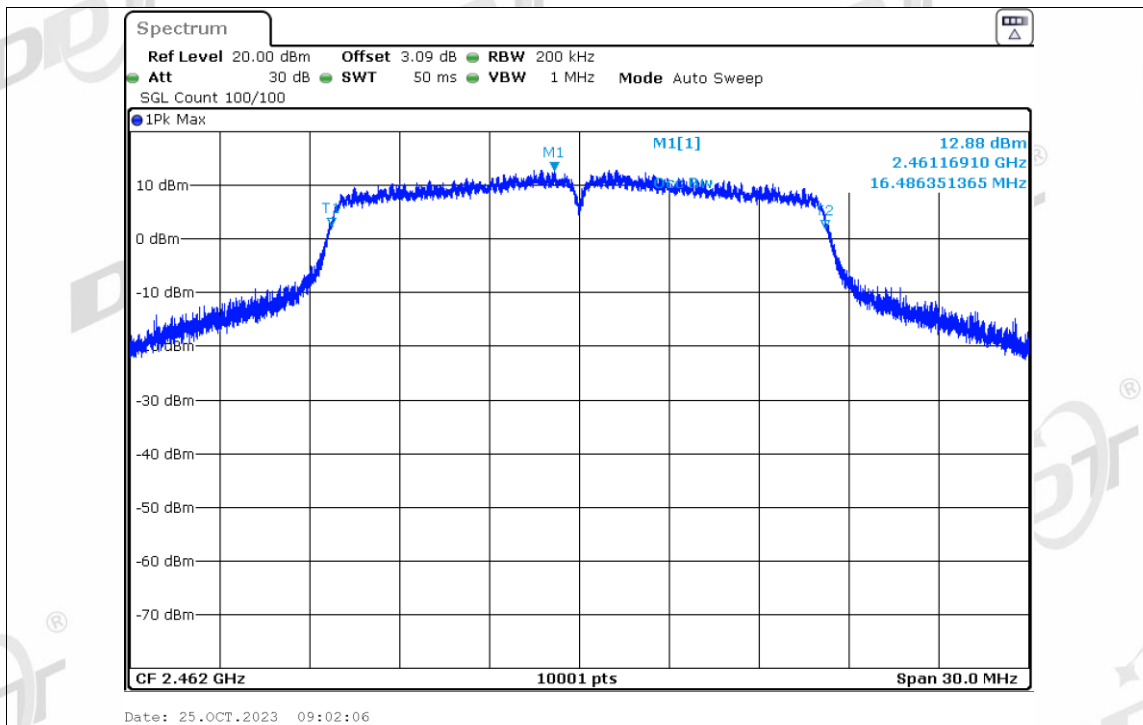
OBW NVNT g 2412MHz Ant1



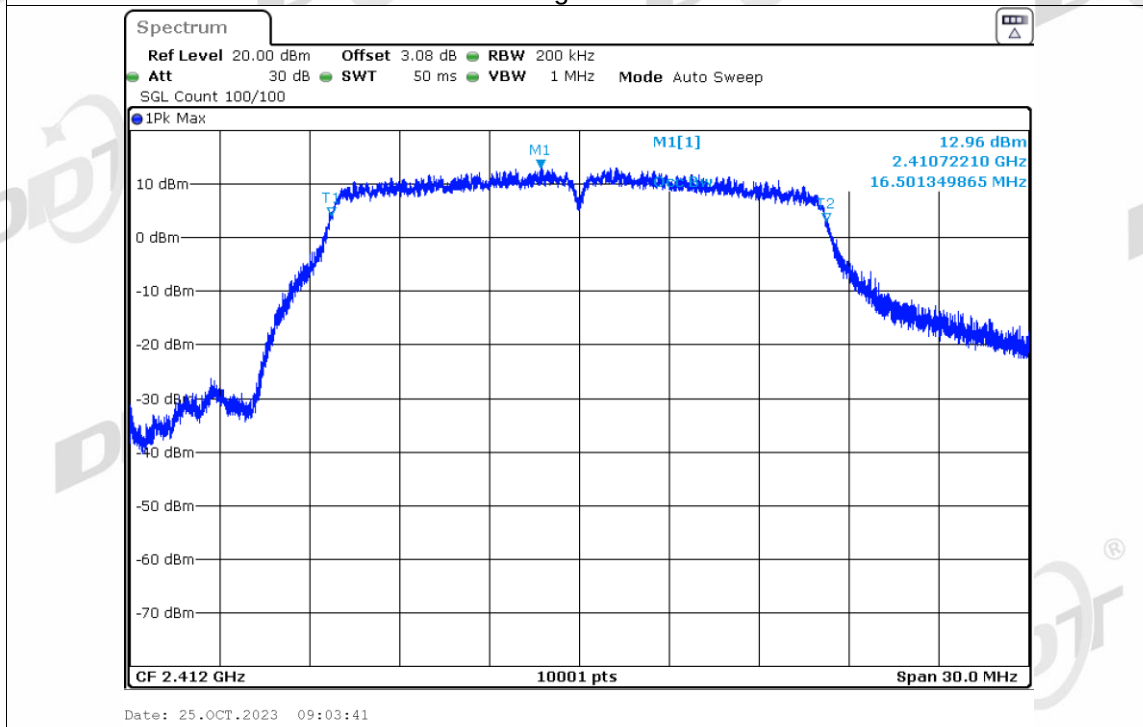
OBW NVNT g 2437MHz Ant1



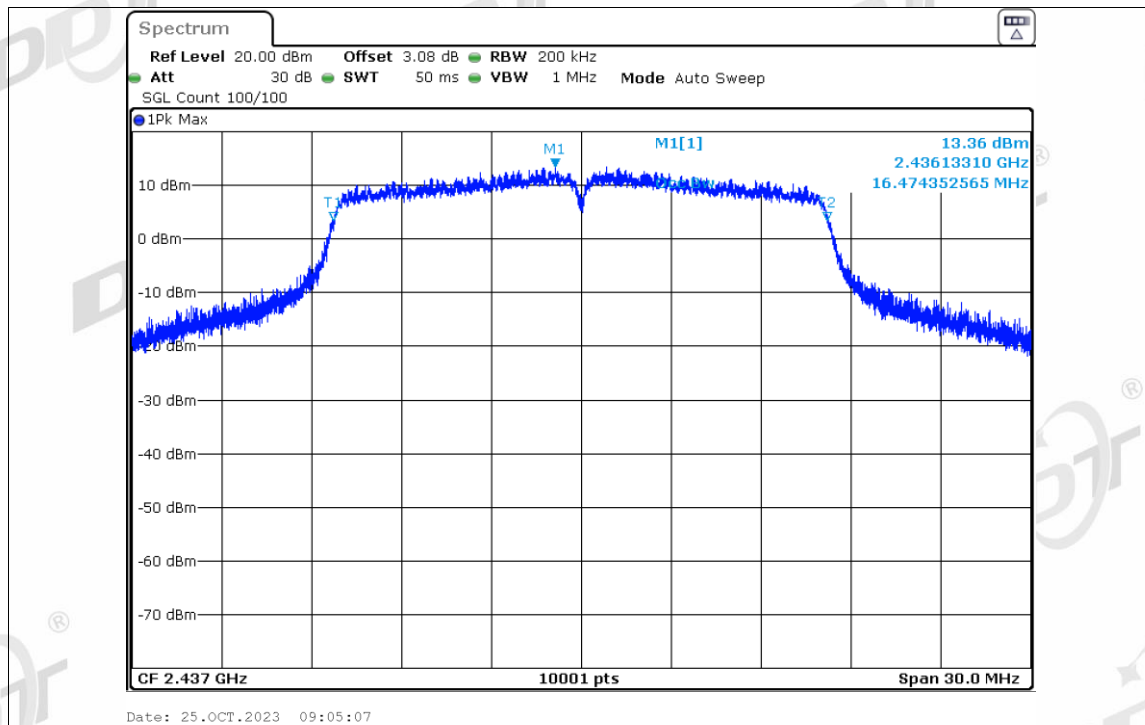
OBW NVNT g 2462MHz Ant1



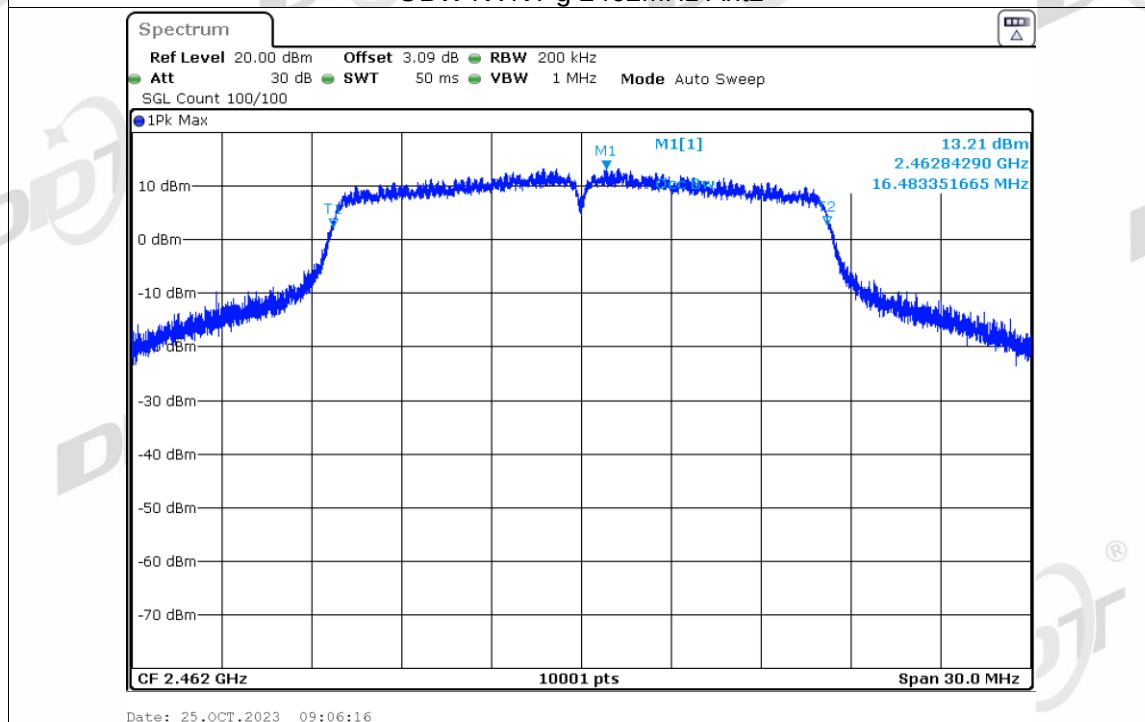
OBW NVNT g 2412MHz Ant2



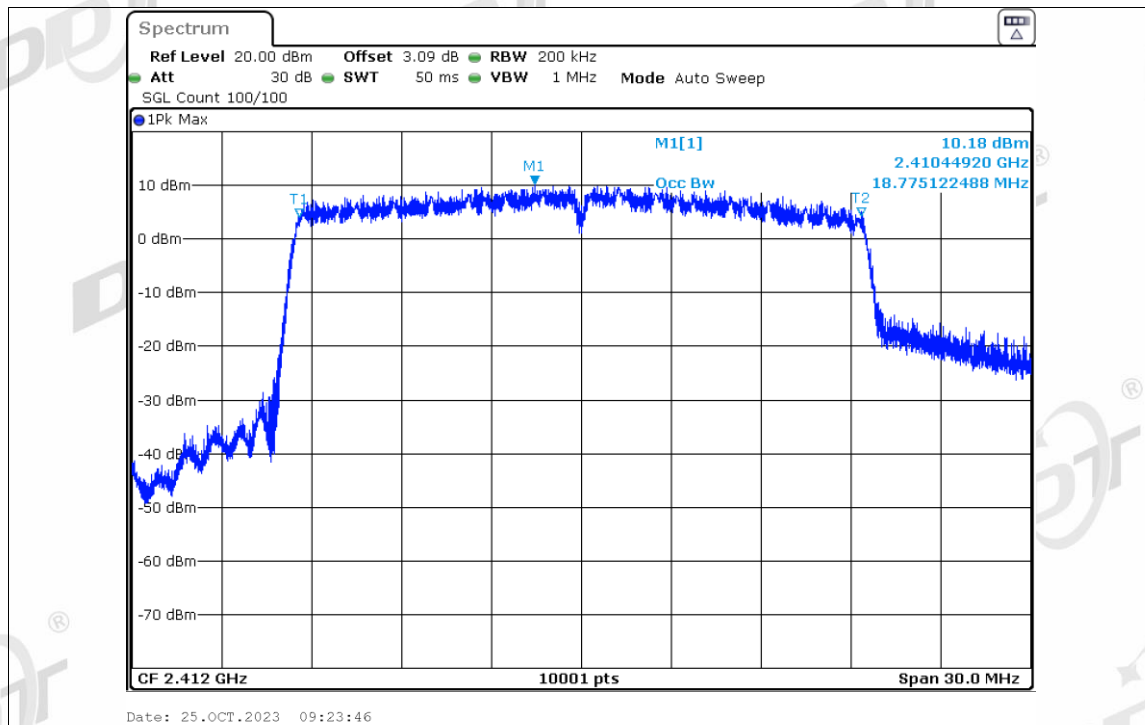
OBW NVNT g 2437MHz Ant2



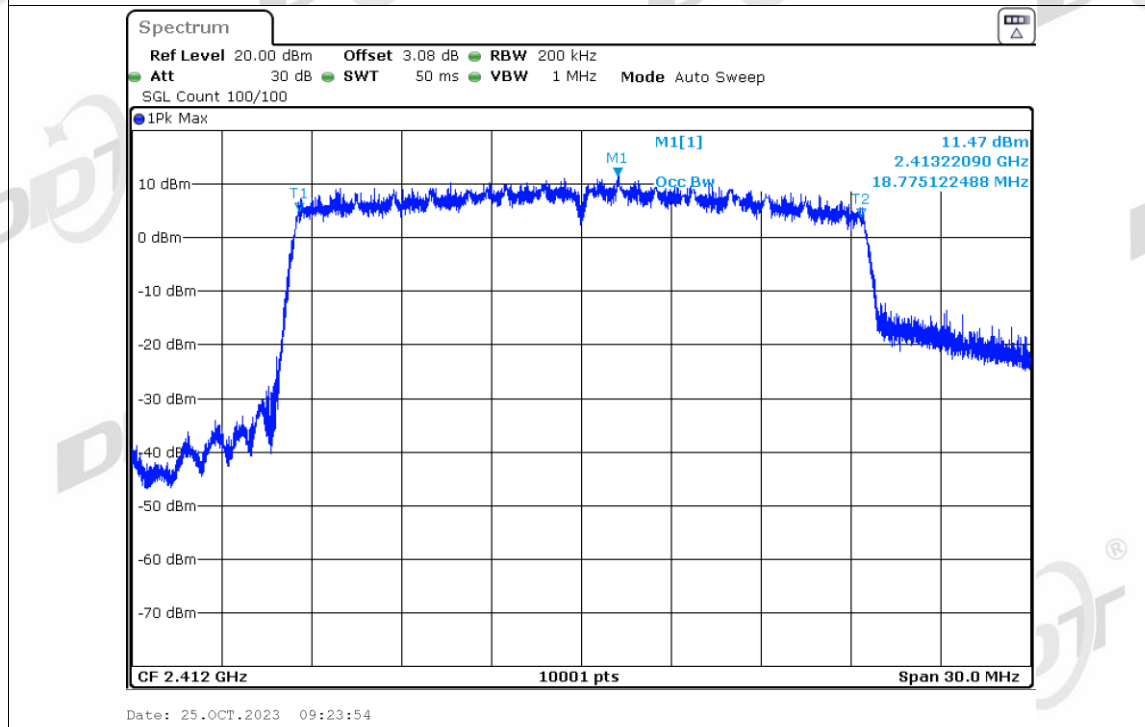
OBW NVNT g 2462MHz Ant2



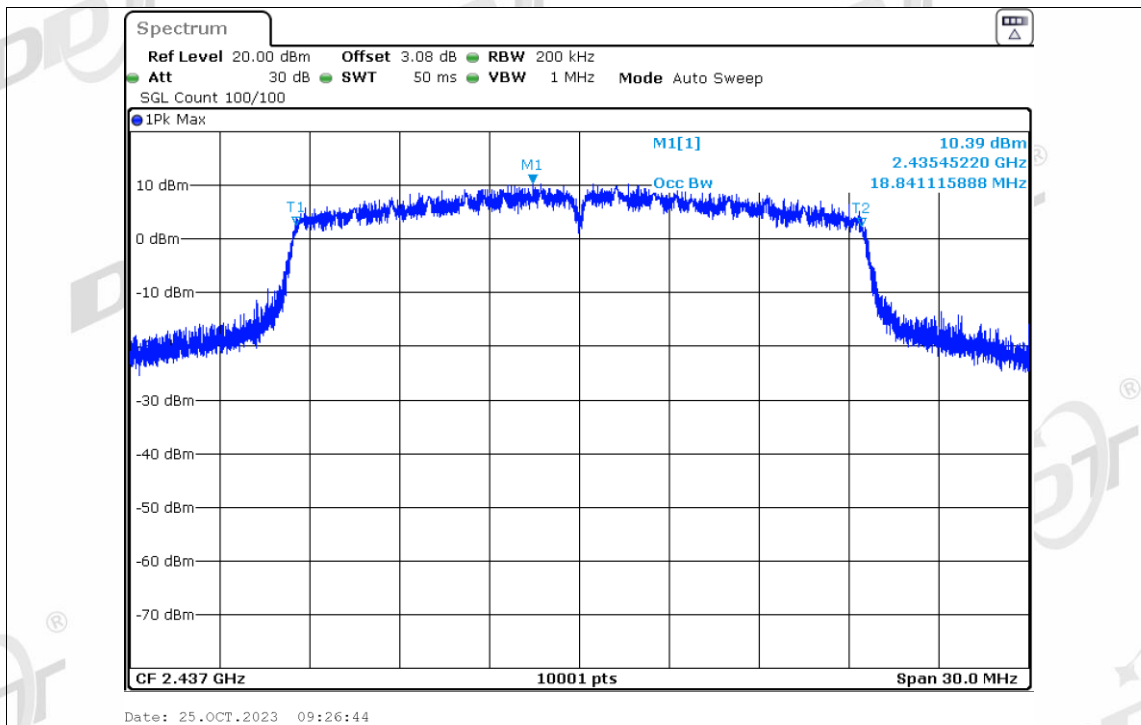
OBW NVNT ax20 2412MHz Ant1



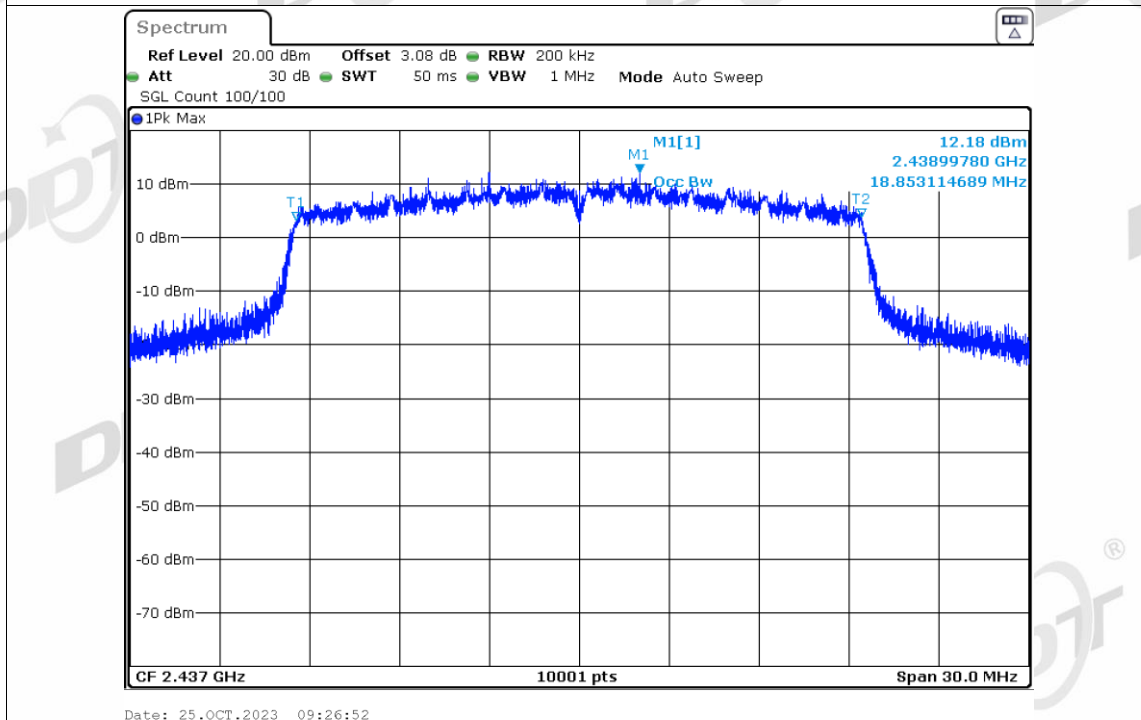
OBW NVNT ax20 2412MHz Ant2



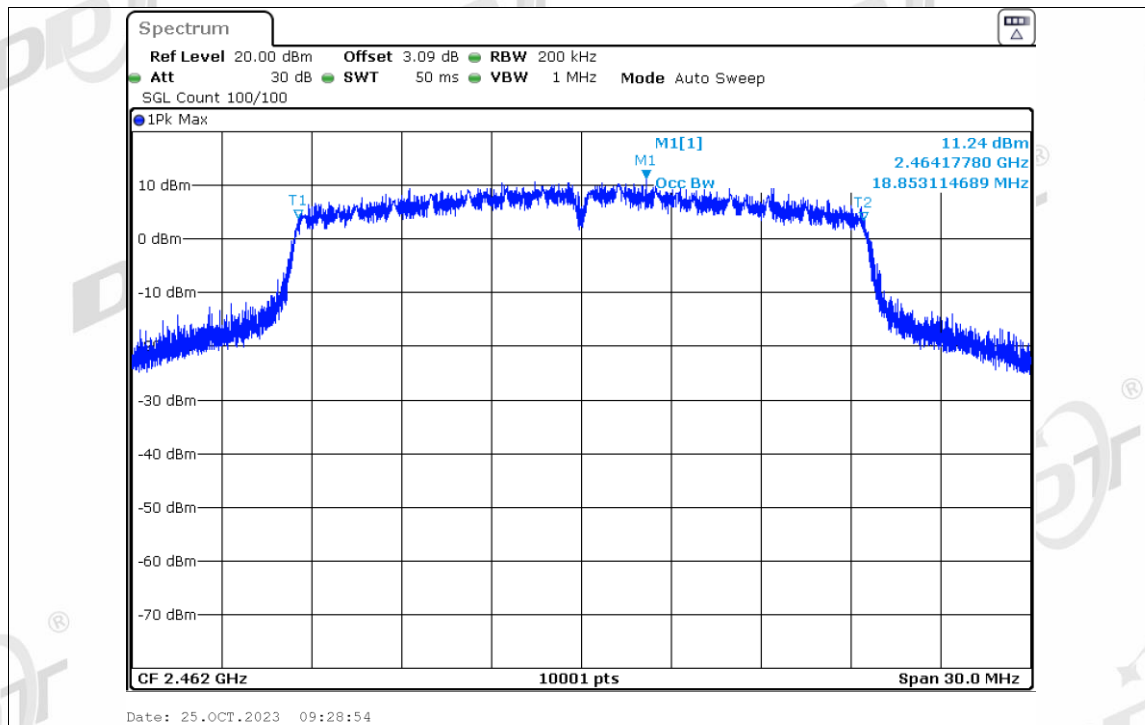
OBW NVNT ax20 2437MHz Ant1



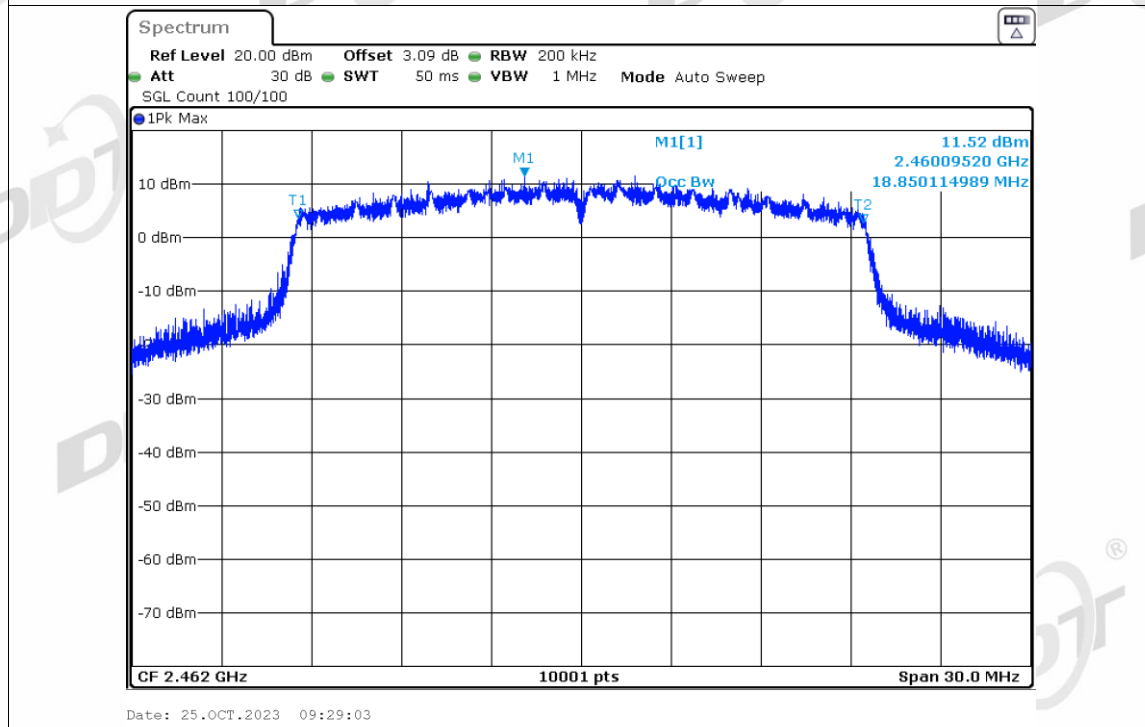
OBW NVNT ax20 2437MHz Ant2



OBW NVNT ax20 2462MHz Ant1



OBW NVNT ax20 2462MHz Ant2



OBW NVNT ax40 2422MHz Ant1