



Radio Test Report

Report No.: STS2605348W02

Issued for

Shenzhen Dejiarun Technology Co., Ltd.

Room 2102, Building A, Zhiyun Industrial Park, No. 13
Huaxing Road, Tongsheng Community, Dalang Street,
Longhua District, Shenzhen, Guangdong, China

Product Name: Wireless Carplay Adaptor

Brand Name: N/A

Model Name: DC2424

Series Model(s): DC2424A, DC2424B, DC2424C,
DC2424D, DC2424Z

FCC ID: 2BTZT-DC2424

Test Standards: FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name: Shenzhen Dejiarun Technology Co., Ltd.
Address: Room 2102, Building A, Zhiyun Industrial Park, No. 13 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer's Name: Shenzhen Dejiarun Technology Co., Ltd.
Address: Room 2102, Building A, Zhiyun Industrial Park, No. 13 Huaxing Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen, Guangdong, China

Product Description

Product Name: Wireless Carplay Adaptor
Brand Name: N/A
Model Name: DC2424
Series Model(s): DC2424A, DC2424B, DC2424C, DC2424D, DC2424Z
Standards: FCC Part 15.247
Test Procedure: ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

Date of Test

Date of receipt of test item: March 6, 2026
Date (s) of performance of tests: March 6, 2026 - June 16, 2026
Date of Issue: June 16, 2026
Test Result: **Pass**

Testing Engineer :

(Aaron Bu)

Technical Manager :

(Skylar Li)

Authorized Signatory :

(Bovey Yang)



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	6
1.1 TEST FACTORY	7
1.2 MEASUREMENT UNCERTAINTY	7
2. GENERAL INFORMATION	8
2.1 GENERAL DESCRIPTION OF THE EUT	8
2.2 DESCRIPTION OF THE TEST MODES	10
2.3 TEST SOFTWARE AND POWER LEVEL	11
2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS	13
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	14
3. EMC EMISSION TEST	16
3.1 CONDUCTED EMISSION MEASUREMENT	16
3.2 RADIATED EMISSION MEASUREMENT	20
4. DUTY CYCLE	37
4.1 TEST STANDARD	37
4.2 TEST PROCEDURE	37
4.3 DEVIATION FROM STANDARD	37
4.4 TEST SETUP	37
4.6 TEST RESULTS	37
5. CONDUCTED SPURIOUS & BAND EDGE EMISSION	38
5.1 LIMIT	38
5.2 TEST PROCEDURE	38
5.3 DEVIATION FROM STANDARD	38
5.4 TEST SETUP	38
5.5 EUT OPERATION CONDITIONS	38
5.6 TEST RESULTS	38
6. POWER SPECTRAL DENSITY TEST	39
6.1 LIMIT	39
6.2 TEST PROCEDURE	39
6.3 DEVIATION FROM STANDARD	39
6.4 TEST SETUP	39
6.5 EUT OPERATION CONDITIONS	39



Table of Contents	Page
6.6 TEST RESULTS	39
7. BANDWIDTH TEST	40
7.1 LIMIT	40
7.2 TEST PROCEDURE	40
7.3 DEVIATION FROM STANDARD	40
7.4 TEST SETUP	40
7.5 EUT OPERATION CONDITIONS	40
7.6 TEST RESULTS	40
8. PEAK OUTPUT POWER TEST	41
7.1 LIMIT	41
8.2 TEST PROCEDURE	41
8.3 DEVIATION FROM STANDARD	41
8.4 TEST SETUP	41
8.5 EUT OPERATION CONDITIONS	41
8.6 TEST RESULTS	41
9. ANTENNA REQUIREMENT	42
9.1 STANDARD REQUIREMENT	42
9.2 EUT ANTENNA	42
APPENDIX 1-TEST DATA	43
APPENDIX 2-PHOTOS OF TEST SETUP	114

**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	June 15, 2026	STS2605348W02	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.247 (a)(2)	6dB Bandwidth	PASS	--
15.247 (b)(3)	Output Power	PASS	--
15.209	Radiated Spurious Emission	PASS	--
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	--
15.247 (e)	Power Spectral Density	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/ part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.751\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.888\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 2.48\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 2.52\text{dB}$
5	All emissions, radiated 1G-18GHz	$\pm 3.48\text{dB}$
6	All emissions, radiated >18GHz	$\pm 4.18\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.48\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.52\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.6\%$
10	Power Spectral Density, conducted	$\pm 1.214\text{dB}$
11	Duty Cycle	$\pm 3.2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless Carplay Adaptor	
Brand Name	N/A	
Model Name	DC2424	
Series Model(s)	DC2424A, DC2424B, DC2424C, DC2424D, DC2424Z	
Model Difference	The differences only model names and color. All other external structural, internal structures, power supply methods, and components are exactly the same, which does not affect safety and electromagnetic compatibility performance. All tests were conducted using DC2424.	
Product Description	The EUT is a Wireless Carplay Adaptor	
	Operation Frequency:	802.11b/g/n/ax 20: 2412~2462 MHz 802.11n/ax40:2422~2452MHz
	Modulation Type:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ax(OFDM, OFDMA): BPSK,QPSK,16-QAM,64-QAM,256-QAM, 1024QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps 802.11ax(HE20): 135/65/58.5/52/39/26/19.5/13/6.5Mbps 802.11ax(HE40): 270/135/121.5/108/81/54/40.5/37/13.5Mbps
	Number of Channel:	802.11b/g/n/ax20: 11CH 802.11n/ax 40: 7CH
	Antenna Type:	PCB antenna
	Antenna Gain (dBi):	-3.94 dBi
Channel List	Please refer to the Note 3.	
Power Rating	DC 5V from USB port	
Adapter	/	
Battery	/	
Hardware version number	V1.0	
Software version number	V1.0	
Connecting I/O Port(s)	Please refer to the Note 1.	

Note:



1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna details in this report are based on the manufacturer provided antenna specification documents and apply only to the tested sample identified herein.
Any discrepancies in the antenna information may affect the accuracy of the test results, and the customer assumes responsibility for any related issues..
3. Not support full RU.

3

Operation Frequency of channel			
802.11b/g/n/ax(20MHz)		Channel List for 802.11n/ax(40MHz)	
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

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:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n/ax (HT20)		For 802.11n/ax (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452

3. KDB 662911 D01 Multiple Transmitter Output v02r01

2) Directional Gain Calculations for In-Band Measurements

d) Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1 , G_2 , ..., G_N dBi

☒ (i) If transmit signals are correlated, then

Directional gain = $10 \log[(10G_1/20 + 10G_2/20 + \dots + 10G_N/20)^2 / NANT]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

☐ (ii) If all transmit signals are completely uncorrelated, then

Directional gain = $10 \log[(10G_1/10 + 10G_2/10 + \dots + 10G_N/10)/NANT]$ dBi



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH01	1 Mbps
Mode 2	TX IEEE 802.11b CH06	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH01	6 Mbps
Mode 5	TX IEEE 802.11g CH06	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH01	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH06	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH03	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH06	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH09	MCS 0
Mode 13	TX IEEE 802.11ax HE20 CH01	NSS1 MCS0
Mode 14	TX IEEE 802.11ax HE20 CH06	NSS1 MCS0
Mode 15	TX IEEE 802.11ax HE20 CH11	NSS1 MCS0
Mode 16	TX IEEE 802.11ax HE40 CH03	NSS1 MCS0
Mode 17	TX IEEE 802.11ax HE40 CH06	NSS1 MCS0
Mode 18	TX IEEE 802.11ax HE40 CH09	NSS1 MCS0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have be tested for all avaialbe U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report.
- (3) This product does not support RU.

AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 14: Keeping TX IEEE 802.11ax HE20 CH06

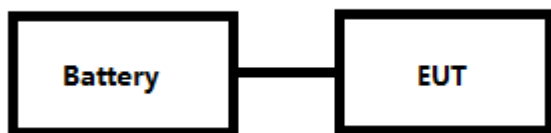


2.3 TEST SOFTWARE AND POWER LEVEL

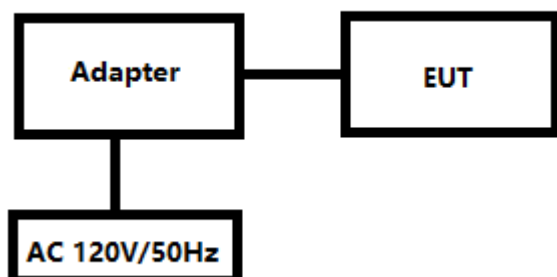
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

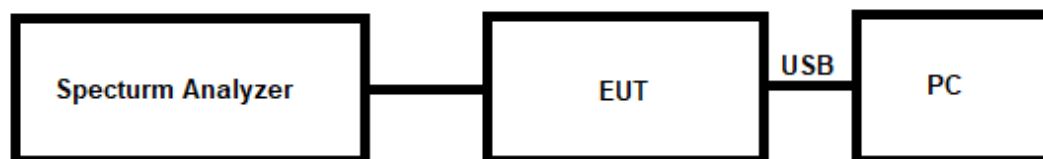
Radiated Spurious Emission Test



AC Conducted Emission Test



RF Conducted Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Notebook	/	X1502Z	N/A	Auxiliary

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2026.02.04	2027.02.03
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2025.09.25	2026.09.24
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2026.03.04	2027.03.03
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2027.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2025.09.27	2027.09.26
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2025.09.27	2027.09.26
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2025.09.27	2027.09.26
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2025.09.26	2026.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Band 2.4G-2.5G Filter	HX MICROWAVE	HXLBQ-DZA61	N/A	2025.09.23	2026.09.22
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHEN GFENG	DPS-305AF	17064939	2025.09.22	2026.09.21
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2025.09.25	2026.09.24
Limiter	CYBERTEK	EM5010	N/A	2025.09.25	2026.09.24
LISN	R&S	ENV216	101242	2025.09.25	2026.09.24
LISN	EMCO	3810/2NM	23625	2025.09.25	2026.09.24
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03



Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2026.02.04	2027.02.03
Pulse Power Sensor	Anritsu	MA2411B	917389	2025.09.23	2026.09.22
Power Meter	Anritsu	ML2480	1005127	2025.09.23	2026.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2026.02.04	2027.02.03
Temperature & Humidity	SW-108	SuWei	N/A	2026.02.04	2027.02.03
Test SW	MW	MTS 8310_2.0.0.0			



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of “ * ” marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

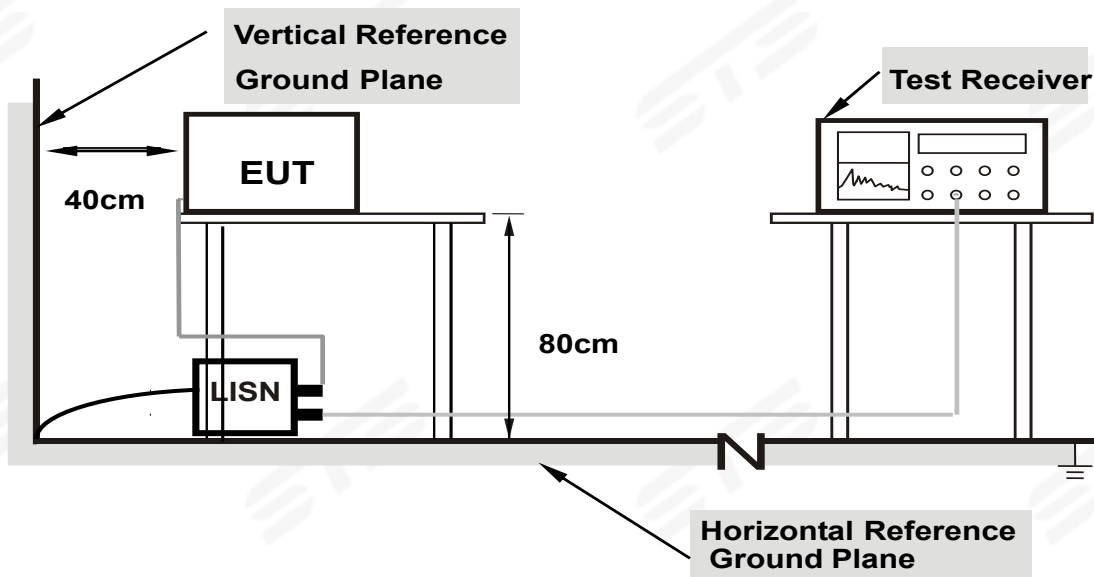
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

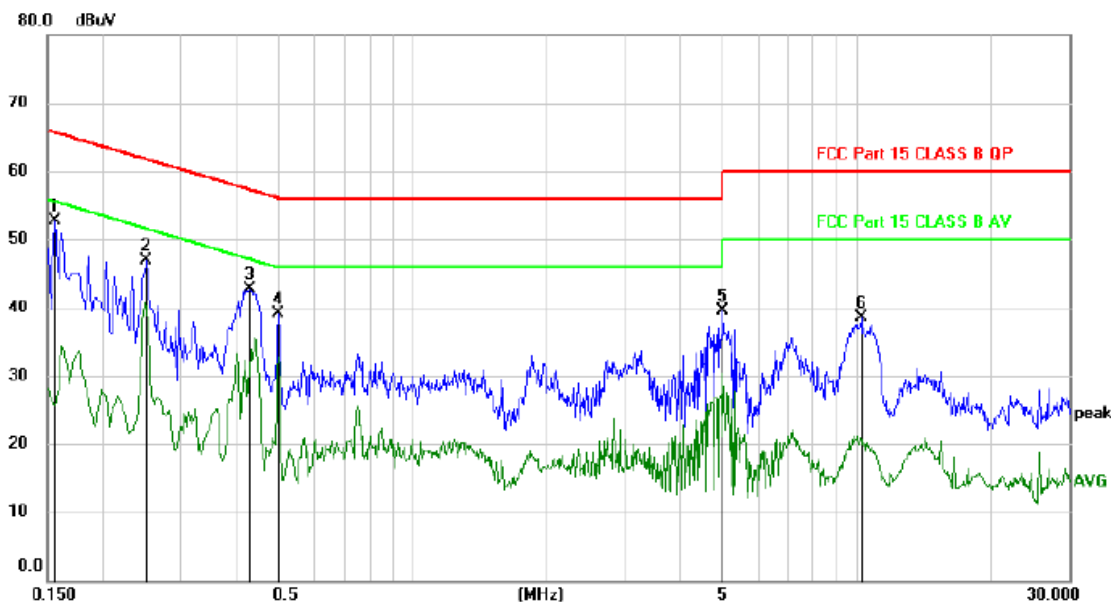
3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.1.5 TEST RESULT

Temperature:	24.4℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 3		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1560	41.80	10.91	52.71	65.67	-12.96	peak	
2		0.2519	36.09	10.75	46.84	61.69	-14.85	peak	
3		0.4290	31.71	11.04	42.75	57.27	-14.52	peak	
4		0.4980	28.18	11.00	39.18	56.03	-16.85	peak	
5		5.0010	28.41	11.00	39.41	60.00	-20.59	peak	
6		10.1940	27.15	11.32	38.47	60.00	-21.53	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

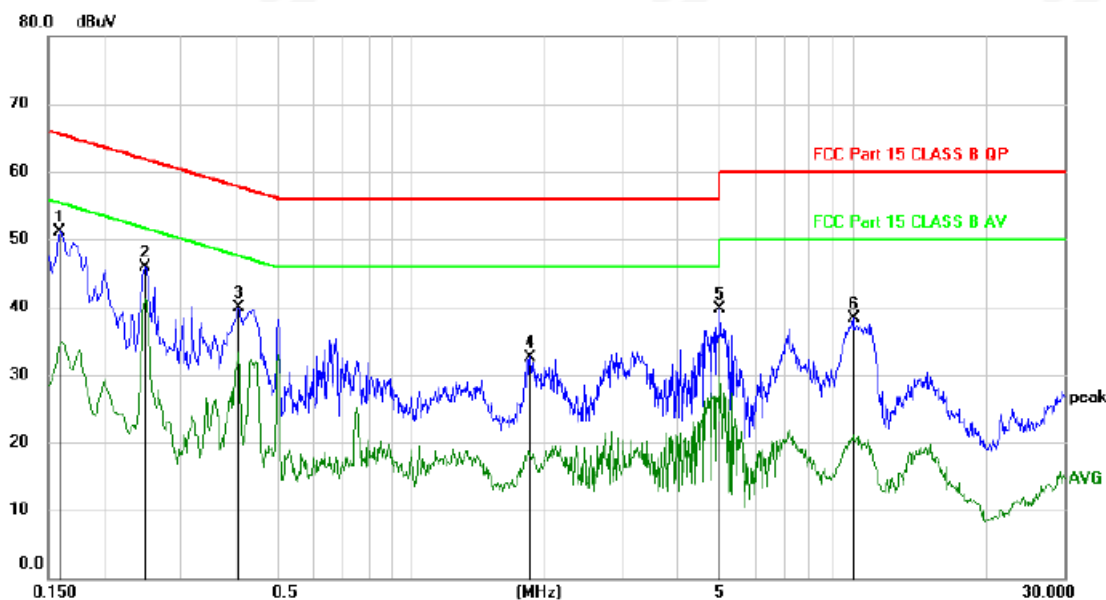
Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)-Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



Temperature:	24.4℃	Relative Humidity:	53%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 3		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1590	40.30	10.90	51.20	65.52	-14.32	peak	
2		0.2490	35.17	10.75	45.92	61.79	-15.87	peak	
3		0.4050	28.85	11.05	39.90	57.75	-17.85	peak	
4		1.8510	21.80	10.80	32.60	56.00	-23.40	peak	
5		5.0010	28.61	11.00	39.61	60.00	-20.39	peak	
6		9.9990	26.90	11.33	38.23	60.00	-21.77	peak	

*:Maximum data x:Over limit !:over margin

(Reference Only)

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result =Reading + Factor)-Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			



For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP/AV
Start Frequency	9 KHz/150KHz(Peak/QP/AV)
Stop Frequency	150KHz/30MHz(Peak/QP/AV)
RB / VB (emission in restricted band)	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz); 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted band)	120 KHz / 300 KHz

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)

For Restricted band

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2310 to 2430 MHz Upper Band Edge: 2445 to 2500 MHz
RB / VB	1 MHz / 3 MHz(Peak) 1 MHz/1/T MHz(AVG)



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

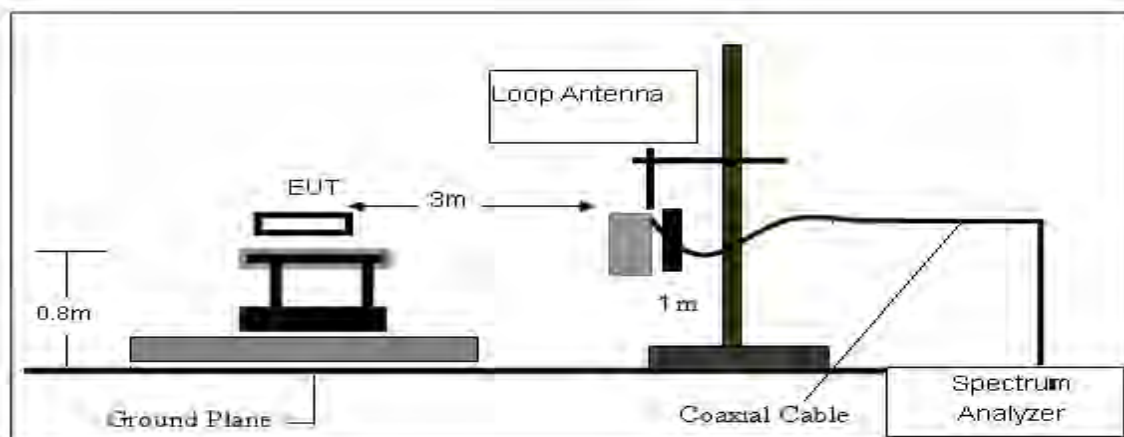
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

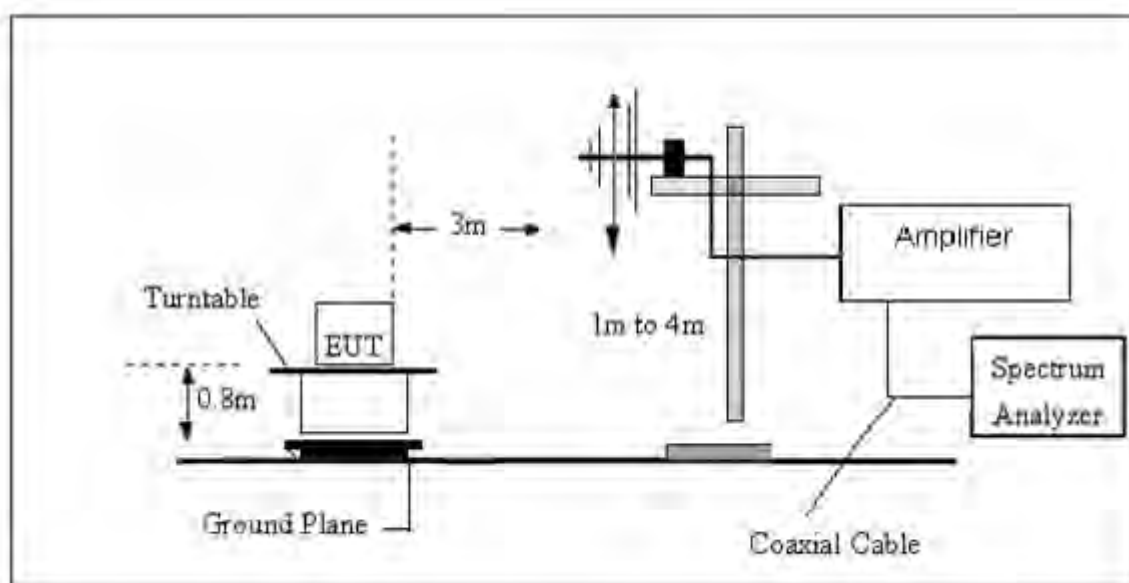
Both horizontal and vertical antenna polarities were tested with a band-stop filter and performed pretest to three orthogonal axis. The worst-case emissions were reported.

3.2.3 TEST SETUP

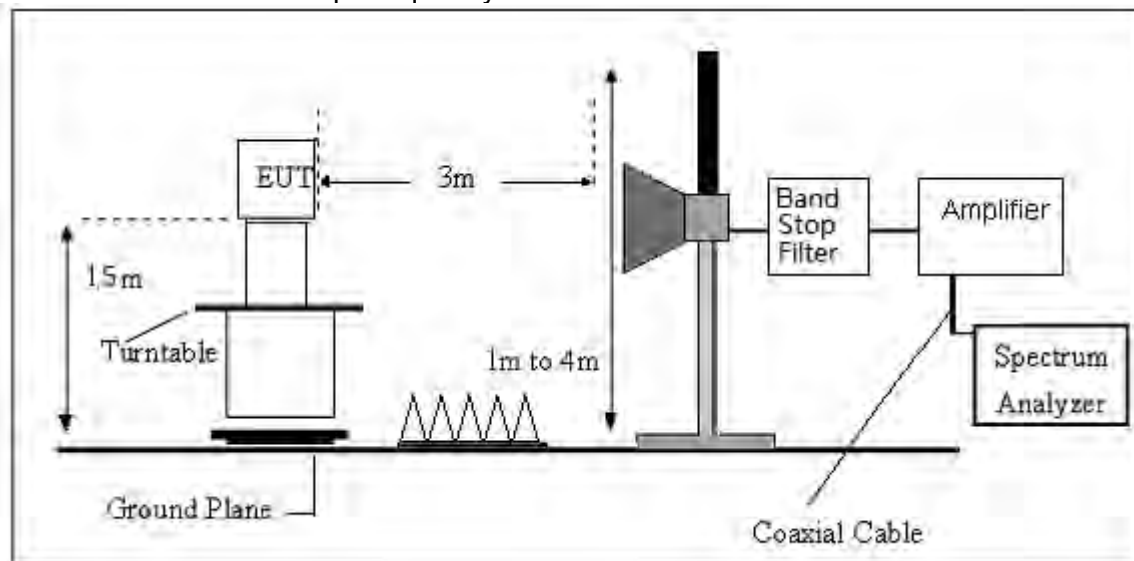
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

Please refer to section 3.1.4 of this report.



3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	23.7℃	Relative Humidity:	57%
Test Voltage:	DC 5V From USB port	Polarization:	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

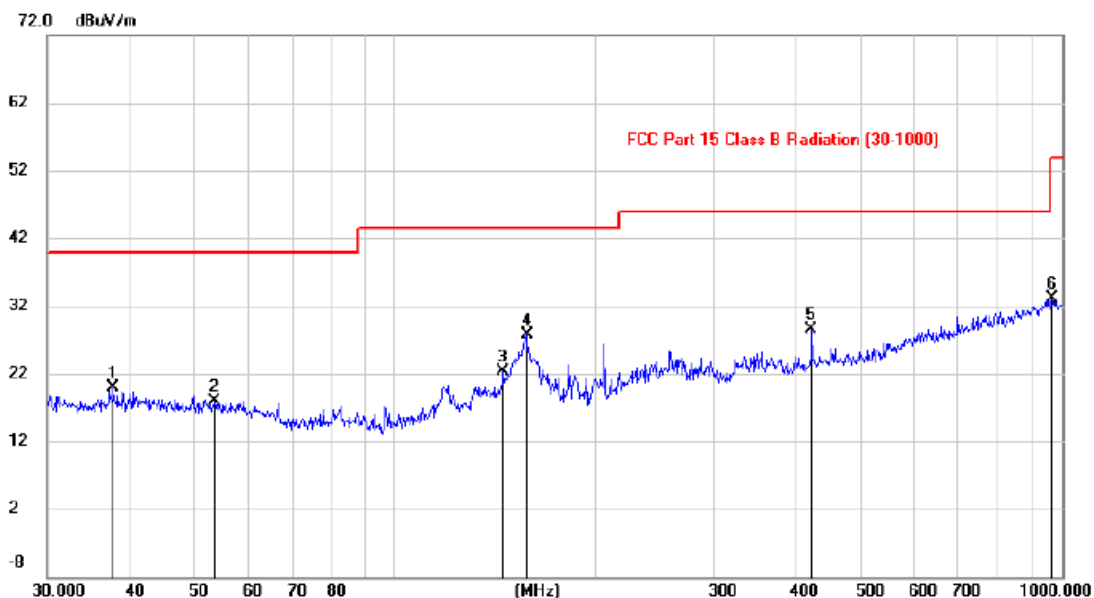
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



(30MHz - 1000MHz)

Temperature:	23.7℃	Relative Humidity:	57%
Test Voltage:	DC 5V From USB port	Phase:	Horizontal
Test Mode:	Mode 3		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		37.7282	0.27	19.63	19.90	40.00	-20.10	peak		
2		53.6680	-1.34	19.23	17.89	40.00	-22.11	peak		
3		145.1977	2.09	20.23	22.32	43.50	-21.18	peak		
4	*	157.2644	7.12	20.66	27.78	43.50	-15.72	peak		
5		420.7278	5.27	23.23	28.50	46.00	-17.50	peak		
6		967.8018	1.48	31.64	33.12	54.00	-20.88	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

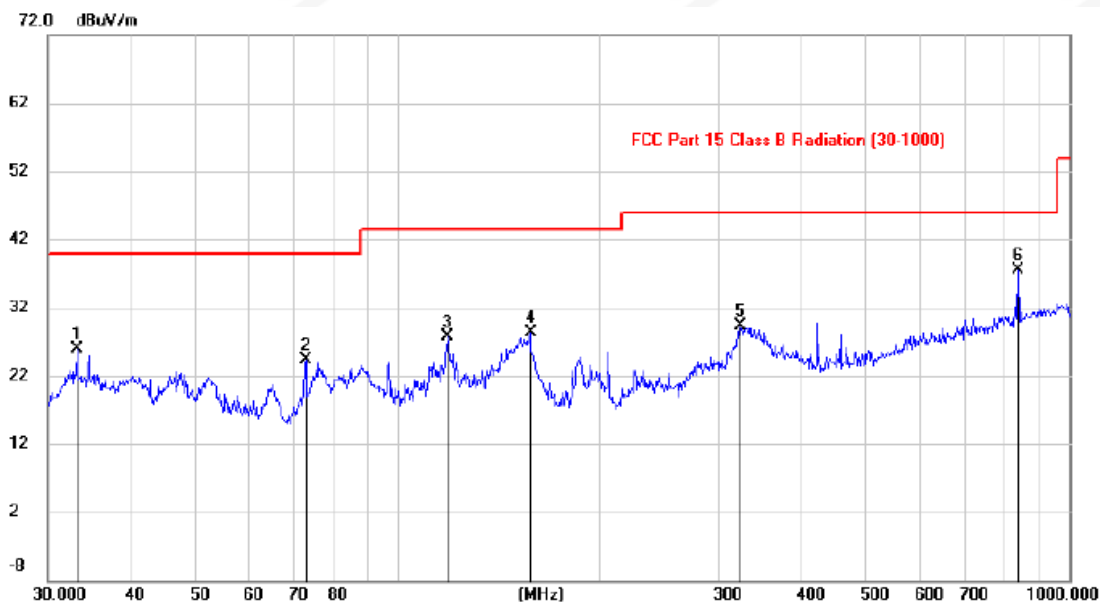
2. Measurement = Reading Level + Correct Factor; Correct Factor = Antenna Factor + Cable Loss.

Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain
3. All modes have been tested, only show the worst case.



Temperature:	23.7℃	Relative Humidity:	57%
Test Voltage:	DC 5V From USB port	Phase:	Vertical
Test Mode:	Mode 3		



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		33.1879	6.86	19.05	25.91	40.00	-14.09	peak		
2		72.6086	7.95	16.30	24.25	40.00	-15.75	peak		
3		118.2277	9.38	18.34	27.72	43.50	-15.78	peak		
4		157.3380	7.65	20.66	28.31	43.50	-15.19	peak		
5		324.4181	8.38	20.87	29.25	46.00	-16.75	peak		
6	*	841.4409	7.37	30.05	37.42	46.00	-8.58	peak		

Note: 1. *: Maximum data; x: Over limit; !: over margin.

2. Measurement = Reading Level + Correct Factor; Correct Factor = Antenna Factor + Cable Loss.

Remark:.

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain
3. All modes have been tested, only show the worst case.



(1000MHz-25GHz) Spurious emission Requirements

Test Mode: IEEE 802.11b TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	44.81	V	33.95	10.18	34.26	54.68	74	-19.32	PK
4824	36.00	V	33.95	10.18	34.26	45.87	54	-8.13	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	46.30	H	33.95	10.18	34.26	56.17	74	-17.83	PK
4824	34.81	H	33.95	10.18	34.26	44.68	54	-9.32	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX Mid									
4874	45.15	V	33.95	10.18	34.26	55.02	74	-18.98	PK
4874	36.62	V	33.95	10.18	34.26	46.49	54	-7.51	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	43.02	H	33.95	10.18	34.26	52.89	74	-21.11	PK
4874	34.10	H	33.95	10.18	34.26	43.97	54	-10.03	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX High									
4924	44.42	V	33.93	10.2	34.29	54.26	74	-19.74	PK
4924	31.22	V	33.93	10.2	34.29	41.06	54	-12.94	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.92	H	33.93	10.2	34.29	57.76	74	-16.24	PK
4924	35.37	H	33.93	10.2	34.29	45.21	54	-8.79	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC&RSS-GEN limit.									



Test Mode: IEEE 802.11g TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	43.34	V	33.95	10.18	34.26	53.21	74	-20.79	PK
4824	35.09	V	33.95	10.18	34.26	44.96	54	-9.04	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	42.68	H	33.95	10.18	34.26	52.55	74	-21.45	PK
4824	37.11	H	33.95	10.18	34.26	46.98	54	-7.02	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX Mid									
4874	45.83	V	33.93	10.2	34.29	55.67	74	-18.33	PK
4874	33.50	V	33.93	10.2	34.29	43.34	54	-10.66	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	46.62	H	33.93	10.2	34.29	56.46	74	-17.54	PK
4874	33.46	H	33.93	10.2	34.29	43.30	54	-10.70	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX High									
4924	44.84	V	33.98	10.22	34.25	54.79	74	-19.21	PK
4924	36.88	V	33.98	10.22	34.25	46.83	54	-7.17	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	48.90	H	33.98	10.22	34.25	58.85	74	-15.15	PK
4924	33.82	H	33.98	10.22	34.25	43.77	54	-10.23	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC&RSS-GEN limit.									



Test Mode: IEEE 802.11n HT20 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	45.76	V	33.95	10.18	34.26	55.63	74	-18.37	PK
4824	36.67	V	33.95	10.18	34.26	46.54	54	-7.46	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	44.86	H	33.95	10.18	34.26	54.73	74	-19.27	PK
4824	35.61	H	33.95	10.18	34.26	45.48	54	-8.52	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX Mid									
4874	45.20	V	33.93	10.2	34.29	55.04	74	-18.96	PK
4874	33.32	V	33.93	10.2	34.29	43.16	54	-10.84	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	45.46	H	33.93	10.2	34.29	55.30	74	-18.70	PK
4874	34.52	H	33.93	10.2	34.29	44.36	54	-9.64	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX High									
4924	47.29	V	33.98	10.22	34.25	57.24	74	-16.76	PK
4924	37.19	V	33.98	10.22	34.25	47.14	54	-6.86	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	45.58	H	33.98	10.22	34.25	55.53	74	-18.47	PK
4924	35.45	H	33.98	10.22	34.25	45.40	54	-8.60	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC&RSS-GEN limit.									



Test Mode: IEEE 802.11n HT40 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4844	44.41	V	33.95	10.18	34.26	54.28	74	-19.72	PK
4844	34.65	V	33.95	10.18	34.26	44.52	54	-9.48	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
4844	42.95	H	33.95	10.18	34.26	52.82	74	-21.18	PK
4844	34.41	H	33.95	10.18	34.26	44.28	54	-9.72	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX Mid									
4874	45.94	V	33.93	10.2	34.29	55.78	74	-18.22	PK
4874	33.19	V	33.93	10.2	34.29	43.03	54	-10.97	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	46.25	H	33.93	10.2	34.29	56.09	74	-17.91	PK
4874	34.31	H	33.93	10.2	34.29	44.15	54	-9.85	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX High									
4904	45.97	V	33.98	10.22	34.25	55.92	74	-18.08	PK
4904	34.28	V	33.98	10.22	34.25	44.23	54	-9.77	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/
4904	46.00	H	33.98	10.22	34.25	55.95	74	-18.05	PK
4904	34.19	H	33.98	10.22	34.25	44.14	54	-9.86	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC&RSS-GEN limit.									



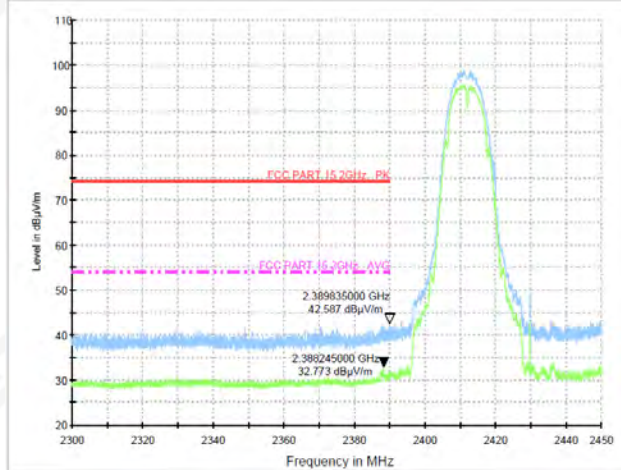
Test Mode: IEEE 802.11ax20 TX Low									
Freq (MHz)	Read Level (dBUV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
4824	43.15	V	33.95	10.18	34.26	53.02	74	-20.98	PK
4824	36.85	V	33.95	10.18	34.26	46.72	54	-7.28	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	42.96	H	33.95	10.18	34.26	52.83	74	-21.17	PK
4824	36.38	H	33.95	10.18	34.26	46.25	54	-7.75	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11ax20 TX Mid									
4874	46.74	V	33.93	10.2	34.29	56.58	74	-17.42	PK
4874	33.03	V	33.93	10.2	34.29	42.87	54	-11.13	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	47.55	H	33.93	10.2	34.29	57.39	74	-16.61	PK
4874	33.36	H	33.93	10.2	34.29	43.20	54	-10.80	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11ax20 TX High									
4924	45.39	V	33.98	10.22	34.25	55.34	74	-18.66	PK
4924	35.36	V	33.98	10.22	34.25	45.31	54	-8.69	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	49.11	H	33.98	10.22	34.25	59.06	74	-14.94	PK
4924	33.08	H	33.98	10.22	34.25	43.03	54	-10.97	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									



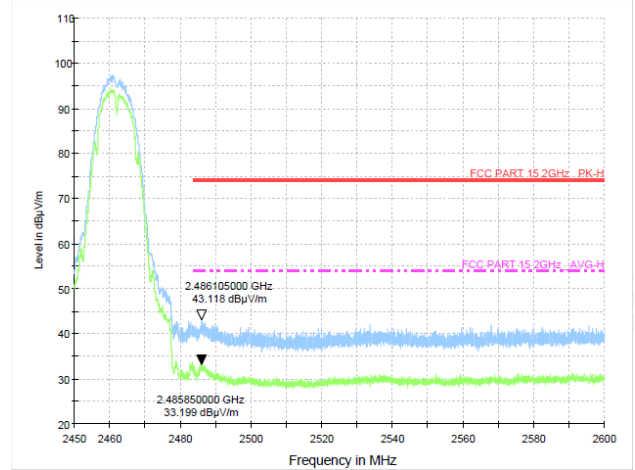
Test Mode: IEEE 802.11ax40 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4844	45.78	V	33.95	10.18	34.26	55.65	74	-18.35	PK
4844	35.46	V	33.95	10.18	34.26	45.33	54	-8.67	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
4844	43.33	H	33.95	10.18	34.26	53.20	74	-20.80	PK
4844	33.48	H	33.95	10.18	34.26	43.35	54	-10.65	AV
7266	/	/	/	/	/	/	/	/	/
9688	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11ax40 TX Mid									
4874	45.90	V	33.93	10.2	34.29	55.74	74	-18.26	PK
4874	33.26	V	33.93	10.2	34.29	43.10	54	-10.90	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	47.68	H	33.93	10.2	34.29	57.52	74	-16.48	PK
4874	35.76	H	33.93	10.2	34.29	45.60	54	-8.40	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11ax40 TX High									
4904	47.22	V	33.98	10.22	34.25	57.17	74	-16.83	PK
4904	33.85	V	33.98	10.22	34.25	43.80	54	-10.20	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/
4904	47.00	H	33.98	10.22	34.25	56.95	74	-17.05	PK
4904	36.10	H	33.98	10.22	34.25	46.05	54	-7.95	AV
7356	/	/	/	/	/	/	/	/	/
9808	/	/	/	/	/	/	/	/	/
Note:									
1, Result = Read level + Antenna factor + cable loss-Amp factor									
2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

3.2.6 TEST RESULTS(Band edge Requirements)

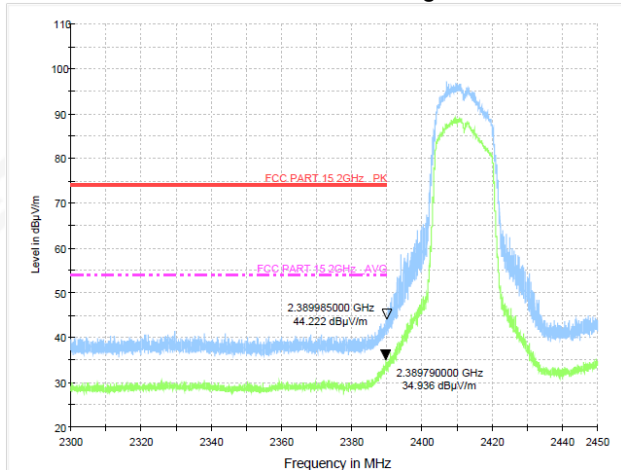
Test Mode: IEEE 802.11b-Low



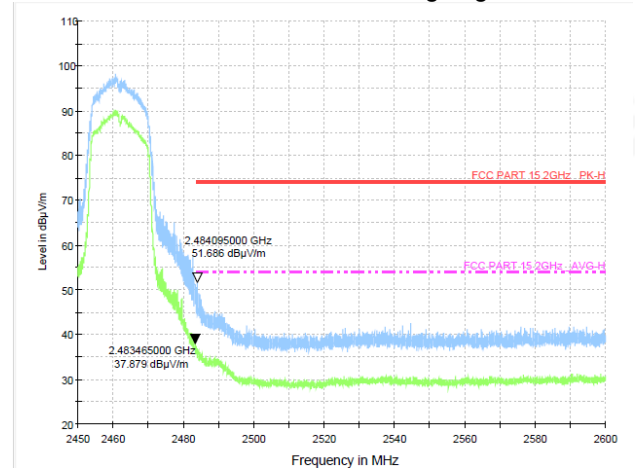
Test Mode: IEEE 802.11b-High



Test Mode: IEEE 802.11g-Low

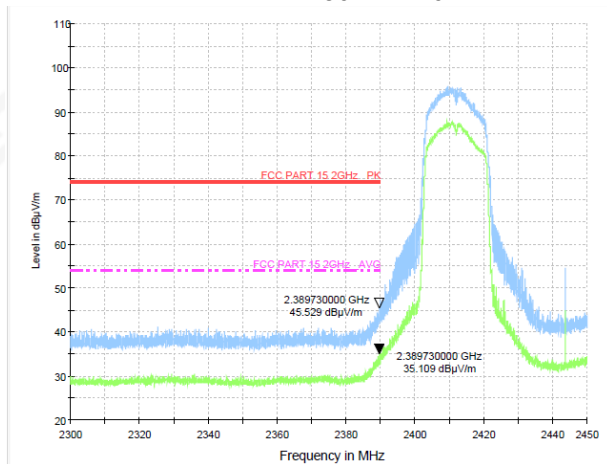


Test Mode: IEEE 802.11g-High

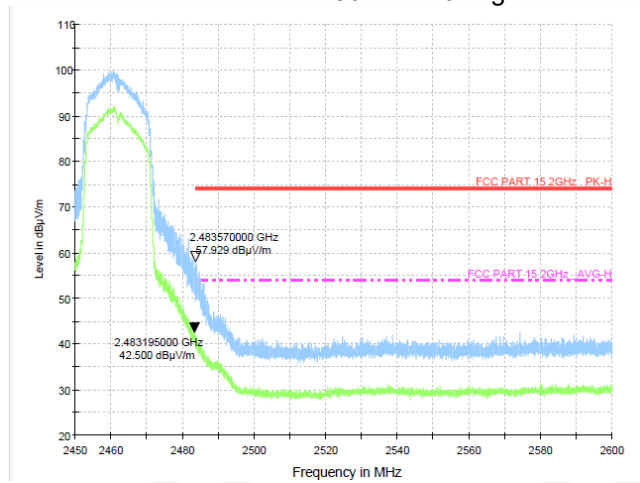




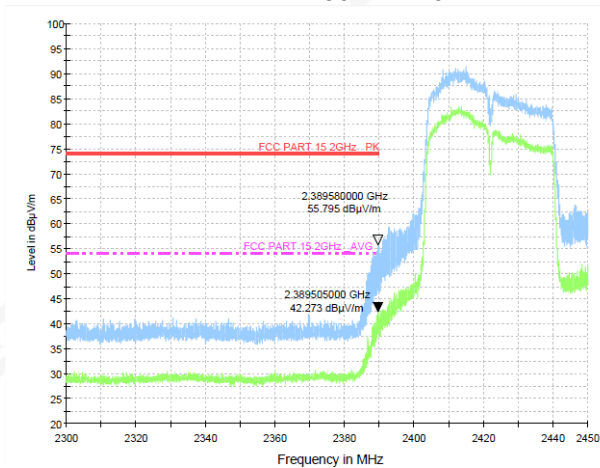
Test Mode: IEEE 802.11n20-Low



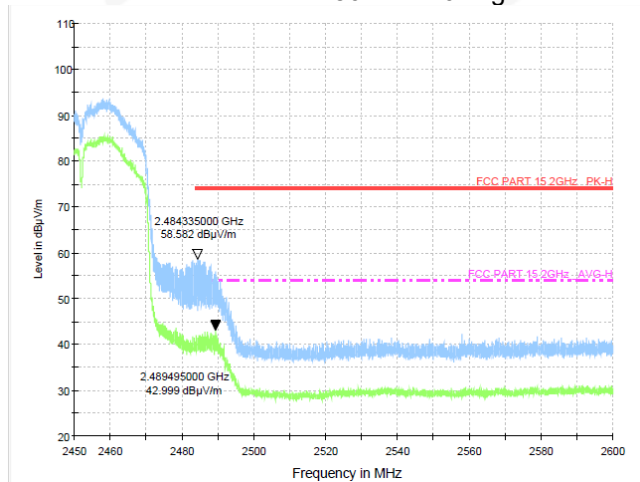
Test Mode: IEEE 802.11n20-High



Test Mode: IEEE 802.11n40-Low

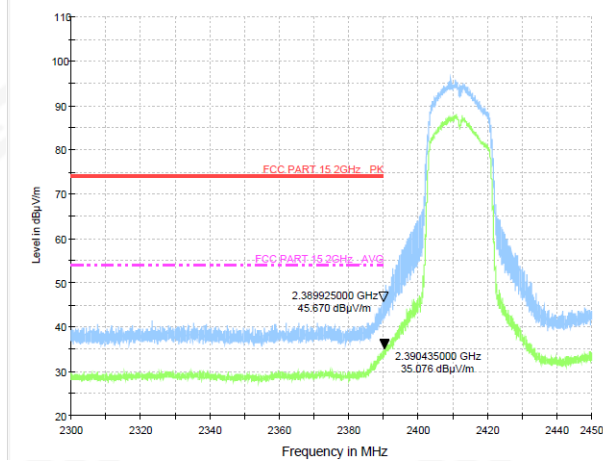


Test Mode: IEEE 802.11n40-High

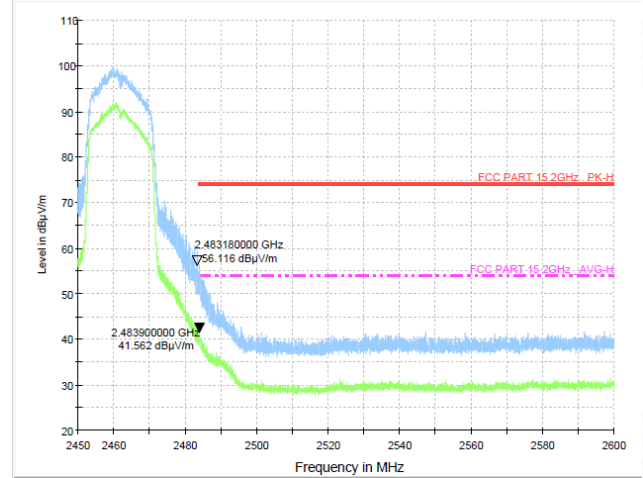




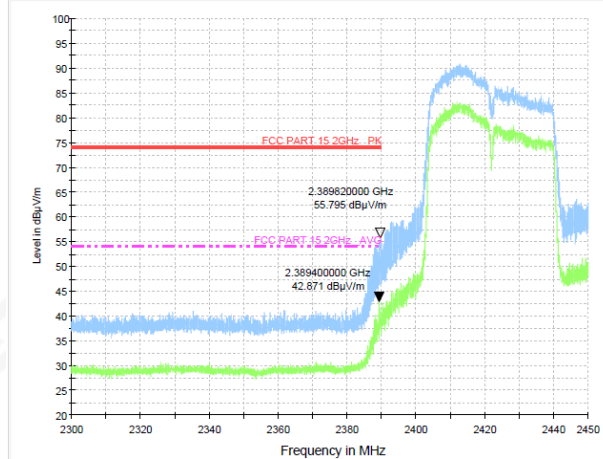
Test Mode: IEEE 802.11ax20-Low



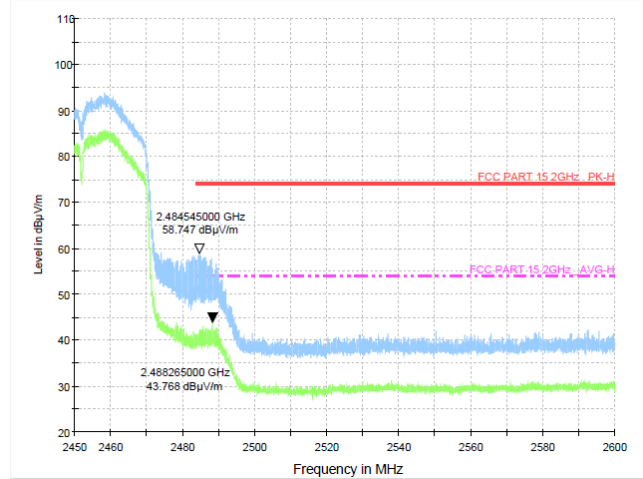
Test Mode: IEEE 802.11ax20-High



Test Mode: IEEE 802.11ax40-Low



Test Mode: IEEE 802.11ax40-High



4. DUTY CYCLE

4.1 TEST STANDARD

Please refer to ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 11.6

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Zero
RB	set RBW to the largest available value
VB	$VBW \geq RBW$.
Detector	Peak
Trace	Clear Write
Sweep Time	Auto

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.

4.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting
Detector	Peak
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

5.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

6. POWER SPECTRAL DENSITY TEST

6.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤ 8 dBm (RBW ≥ 3 KHz)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the $100\text{ kHz} \geq \text{RBW} \geq 3\text{ kHz}$.
4. Set the $\text{VBW} \geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

6.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.

7. BANDWIDTH TEST

7.1 LIMIT

FCC Part15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq 3\text{RBW}$, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

7.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



8. CONDUCTED OUTPUT POWER TEST

8.1 LIMIT

FCC Part15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

8.2 TEST PROCEDURE

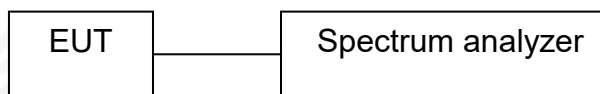
Details see the ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024

- Measure the duty cycle D of the transmitter output signal.
- Set span to >1.5 times the OBW.
- Set RBW = 1% to 5% of the OBW, but do not exceed 1 MHz.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = Power averaging (rms).
- Do not use sweep triggering. Allow the sweep to "free run."
- Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 until trace is stabilized so that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument's band-power measurement function with band limits set equal to the OBW band-edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission).

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

Please refer to section 3.1.4 of this report.

8.6 TEST RESULTS

Note: The test data please refer to APPENDIX 1.



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

9.2 EUT ANTENNA

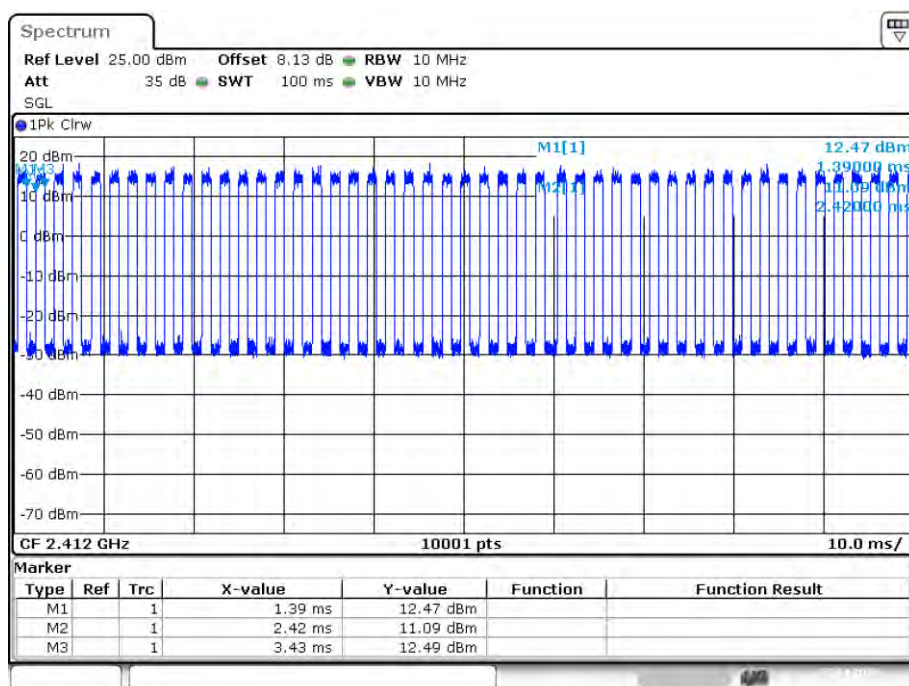
The EUT antenna is PCB Antenna. It comply with the standard requirement.

APPENDIX 1-TEST DATA

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	ax20	2412	Ant1	49.51	3.05
NVNT	ax20	2437	Ant1	49.76	3.03
NVNT	ax20	2462	Ant1	49.27	3.07
NVNT	ax40	2422	Ant1	65.89	1.81
NVNT	ax40	2437	Ant1	64.47	1.91
NVNT	ax40	2452	Ant1	65.89	1.81
NVNT	b	2412	Ant1	89.1	0.5
NVNT	b	2437	Ant1	89.19	0.5
NVNT	b	2462	Ant1	89.09	0.5
NVNT	g	2412	Ant1	57.61	2.39
NVNT	g	2437	Ant1	57.44	2.41
NVNT	g	2462	Ant1	57.61	2.39
NVNT	n20	2412	Ant1	83.03	0.81
NVNT	n20	2437	Ant1	83.01	0.81
NVNT	n20	2462	Ant1	83.17	0.8
NVNT	n40	2422	Ant1	68.61	1.64
NVNT	n40	2437	Ant1	70.57	1.51
NVNT	n40	2452	Ant1	67.67	1.7

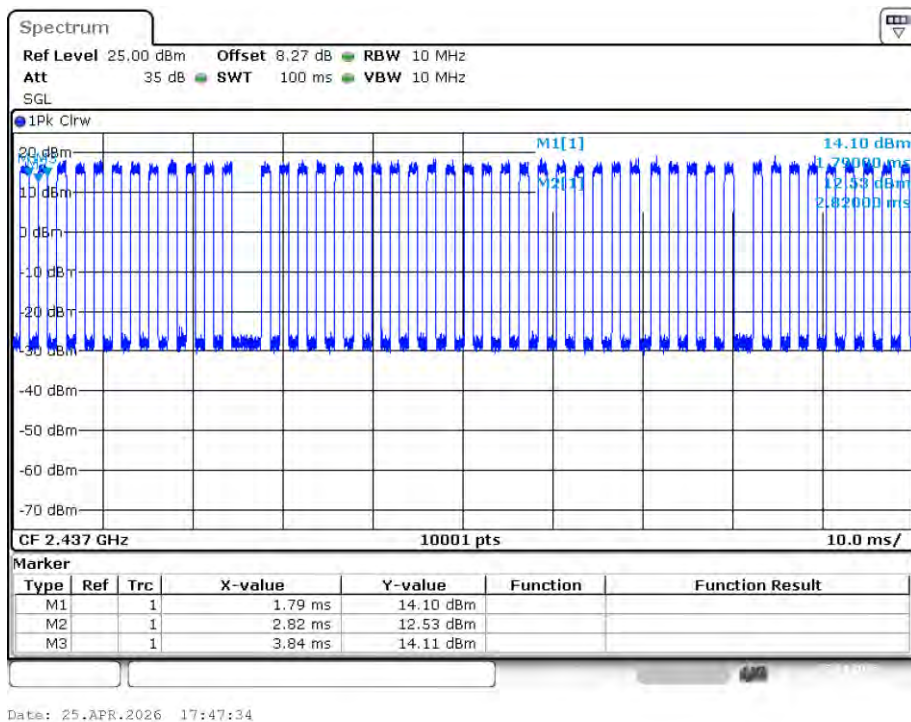
Duty Cycle NVNT ax20 2412MHz Ant1



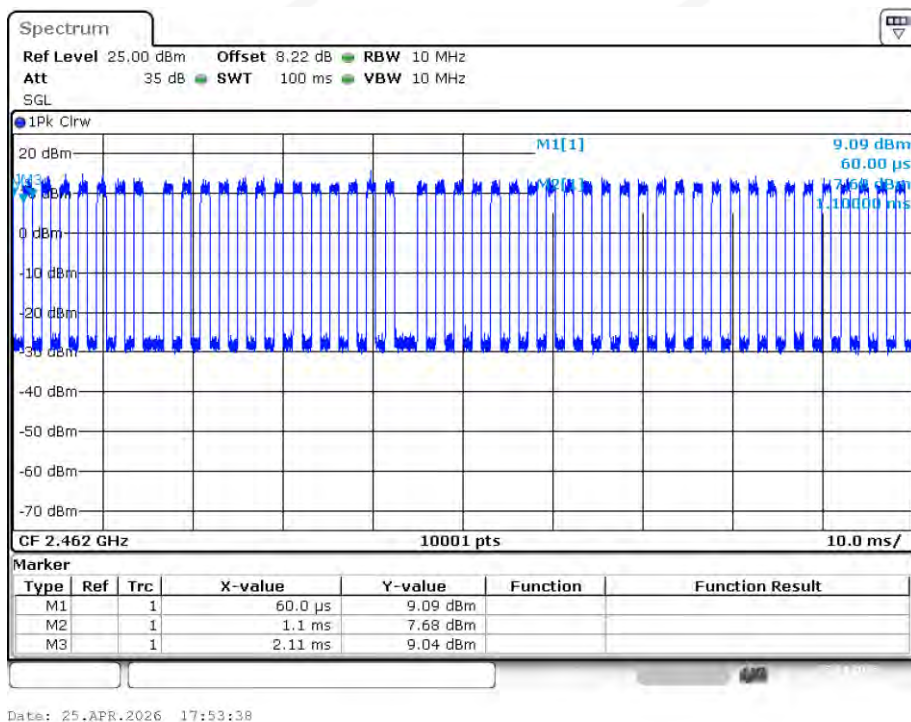
Date: 25.APR.2026 17:44:49



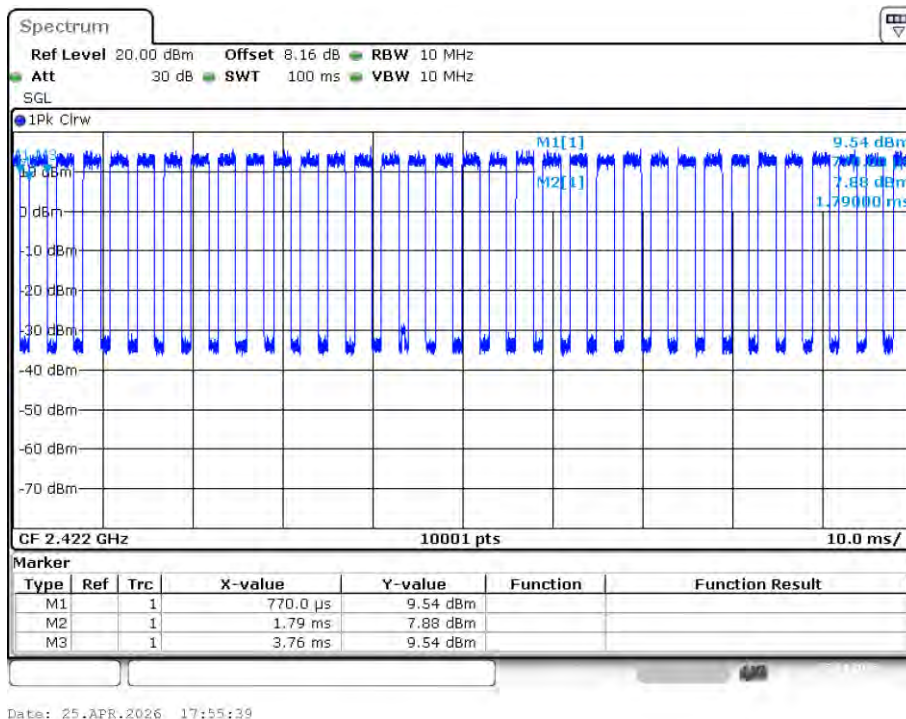
Duty Cycle NVNT ax20 2437MHz Ant1



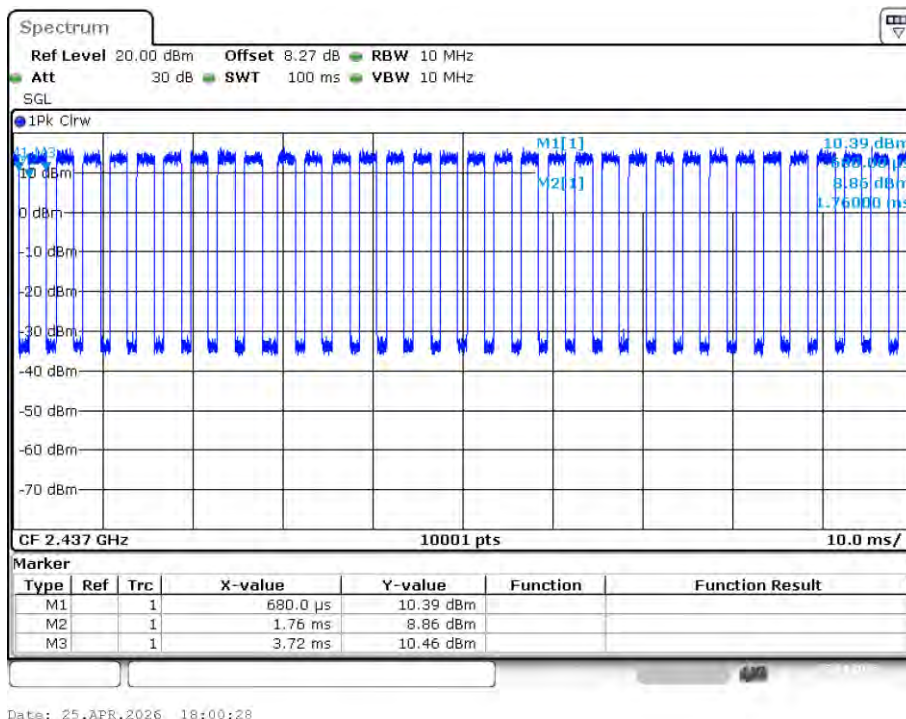
Duty Cycle NVNT ax20 2462MHz Ant1



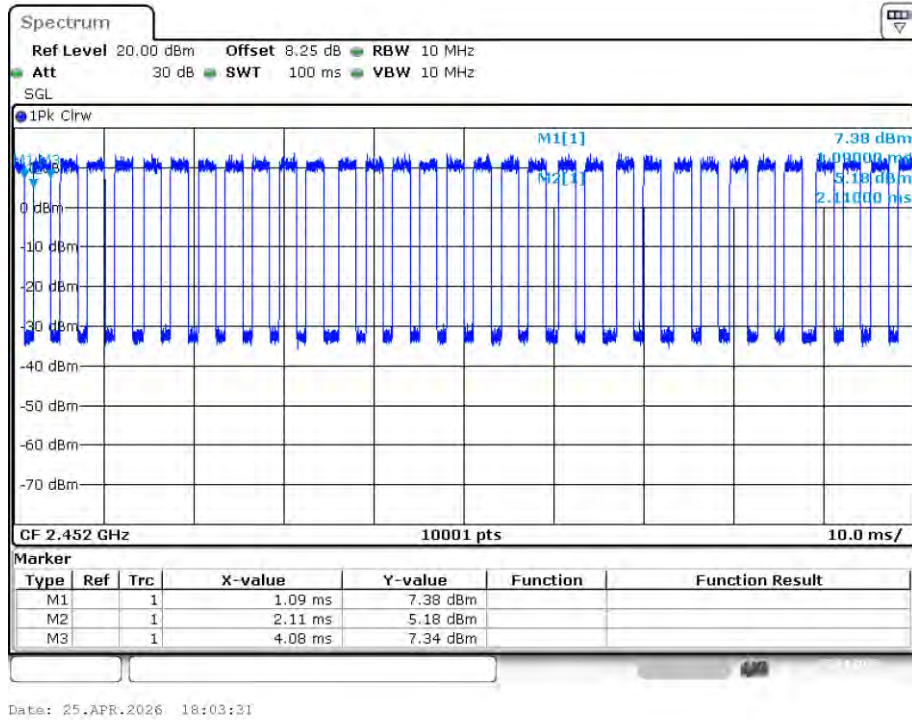
Duty Cycle NVNT ax40 2422MHz Ant1



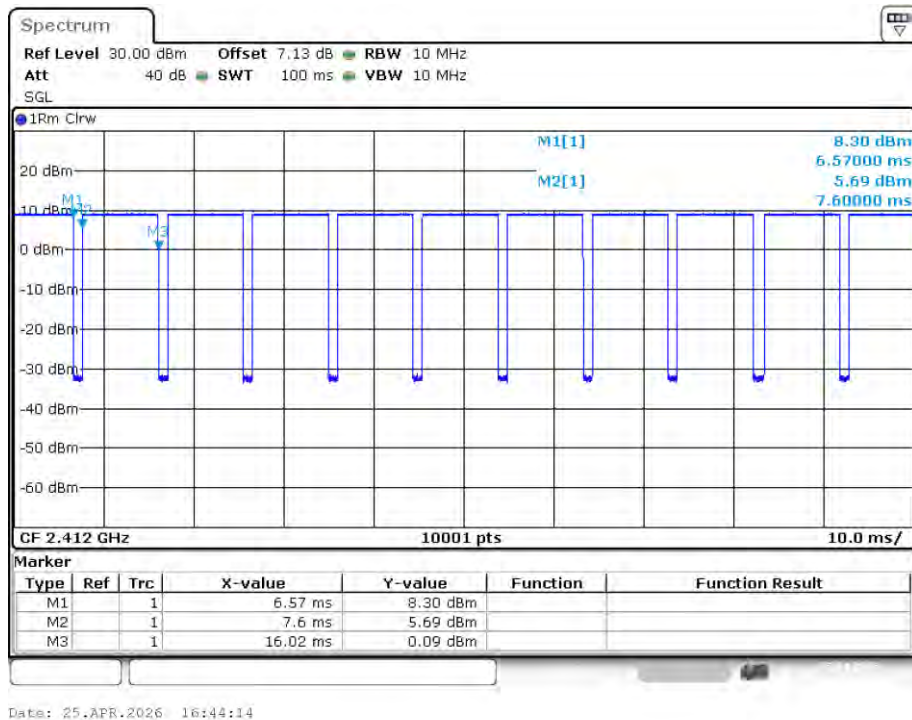
Duty Cycle NVNT ax40 2437MHz Ant1



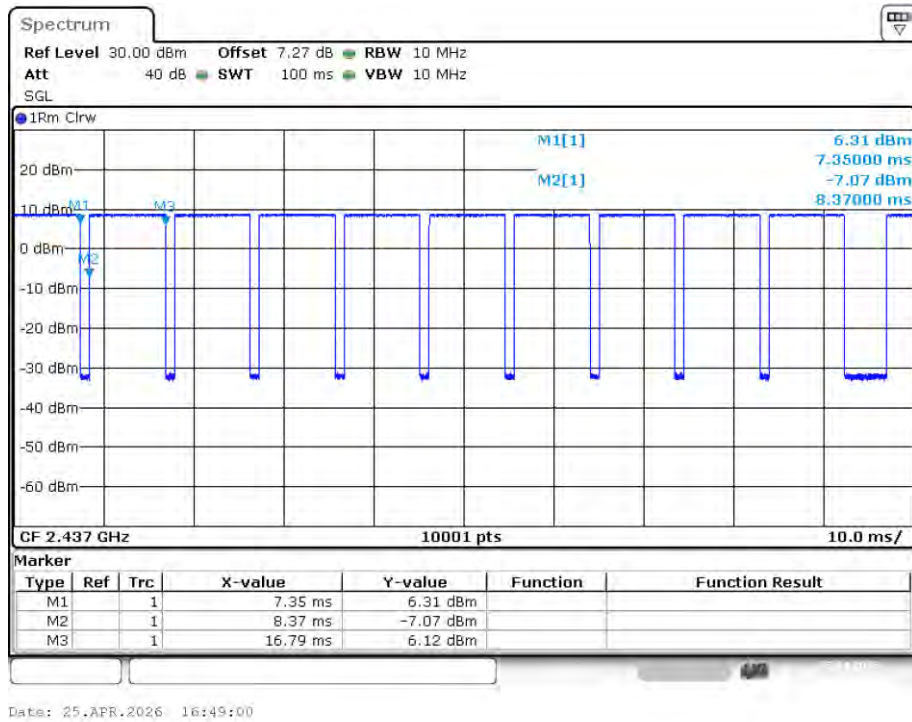
Duty Cycle NVNT ax40 2452MHz Ant1



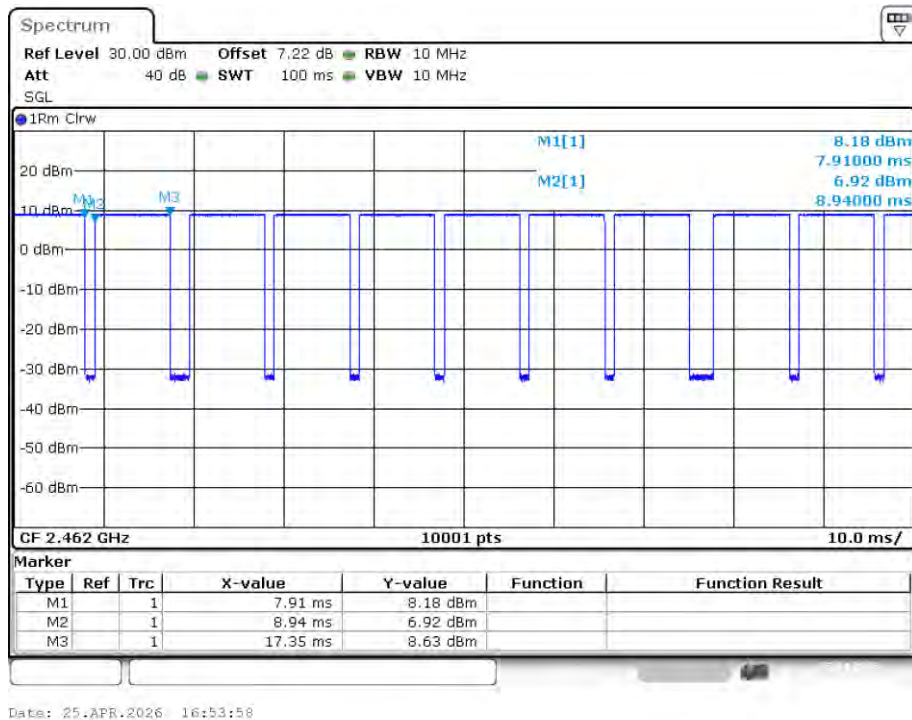
Duty Cycle NVNT b 2412MHz Ant1



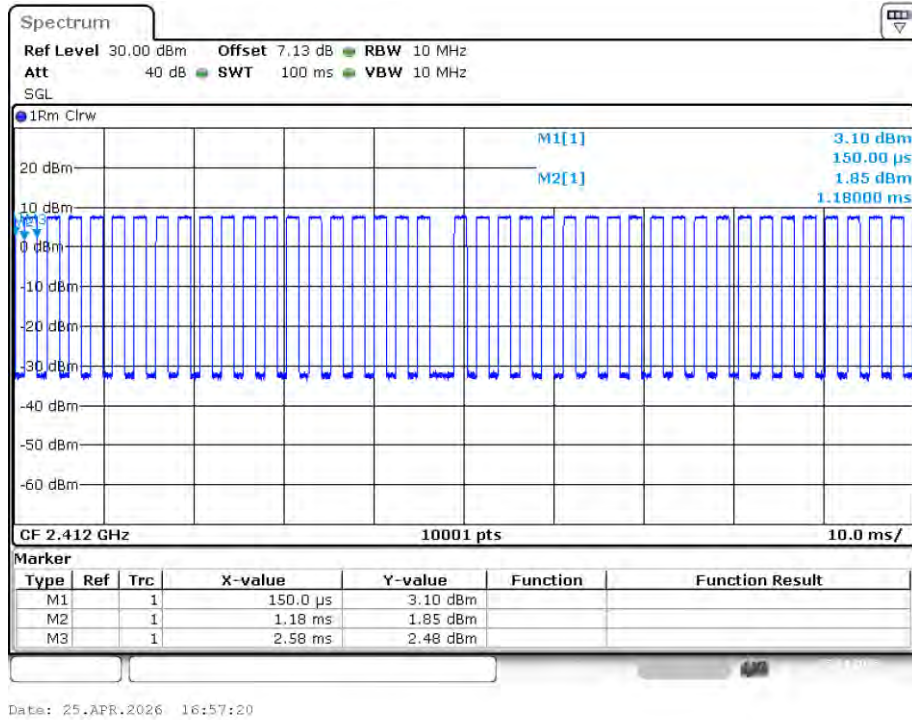
Duty Cycle NVNT b 2437MHz Ant1



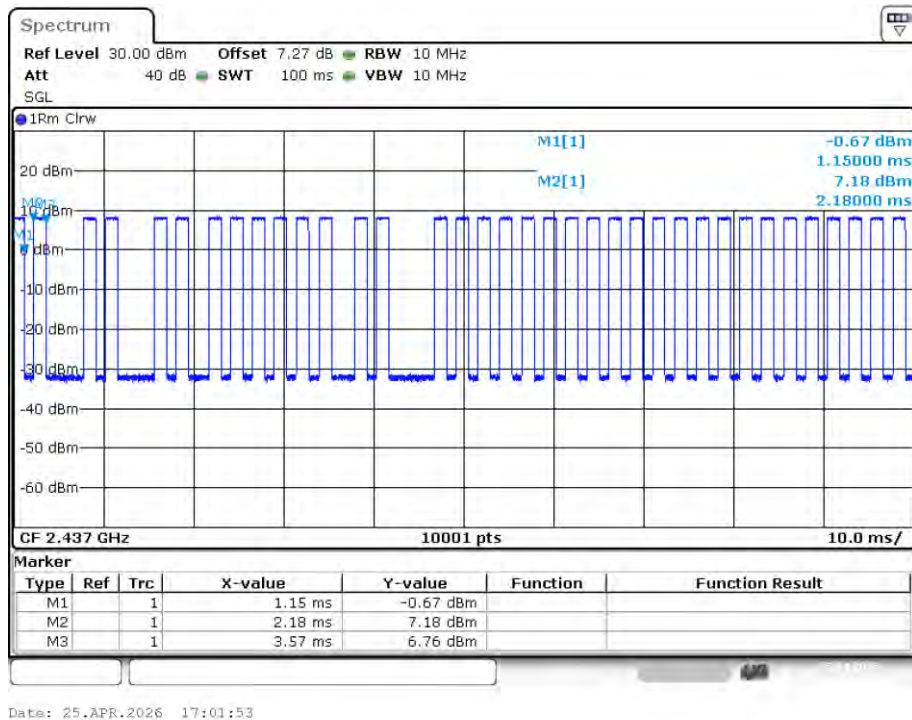
Duty Cycle NVNT b 2462MHz Ant1



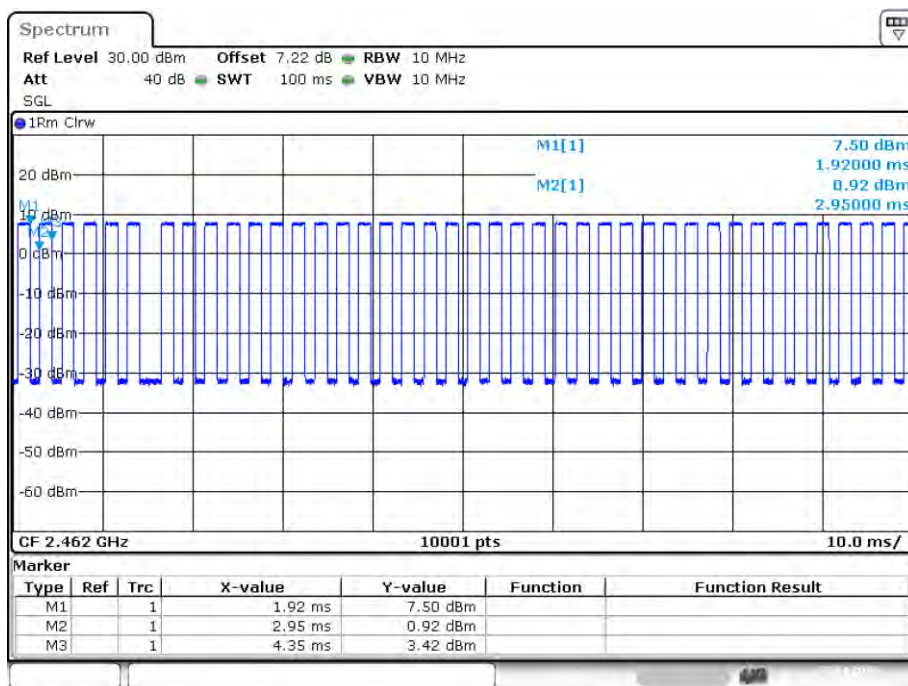
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1

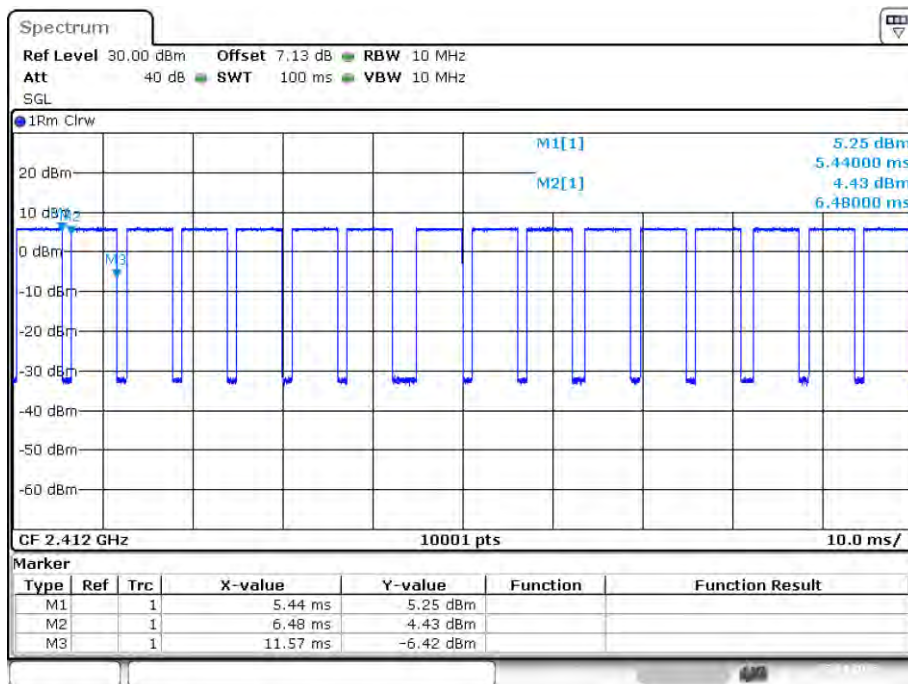


Duty Cycle NVNT g 2462MHz Ant1



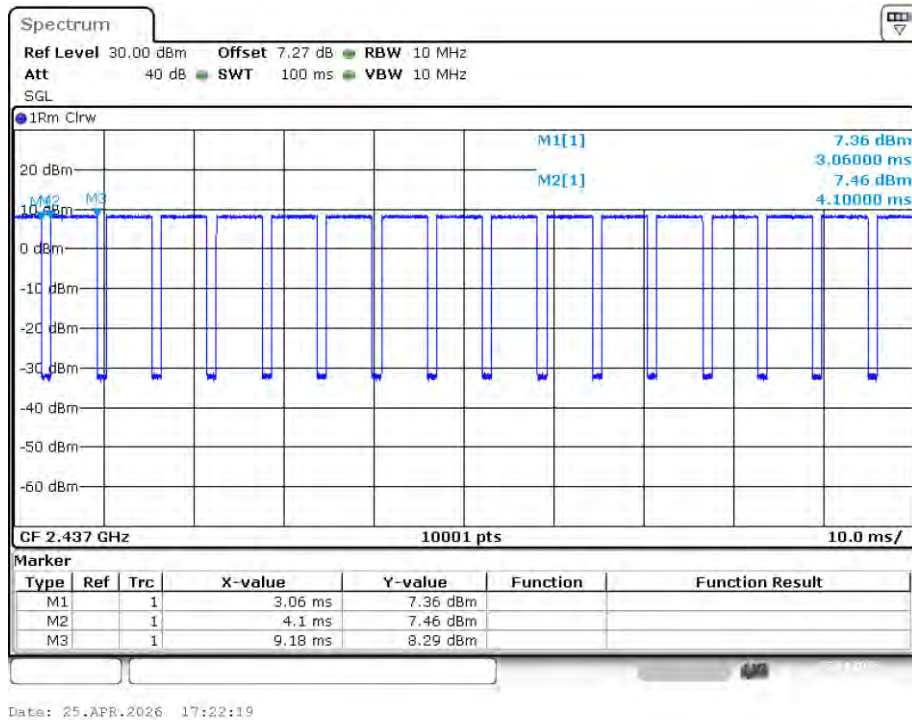
Date: 25.APR.2026 17:07:09

Duty Cycle NVNT n20 2412MHz Ant1

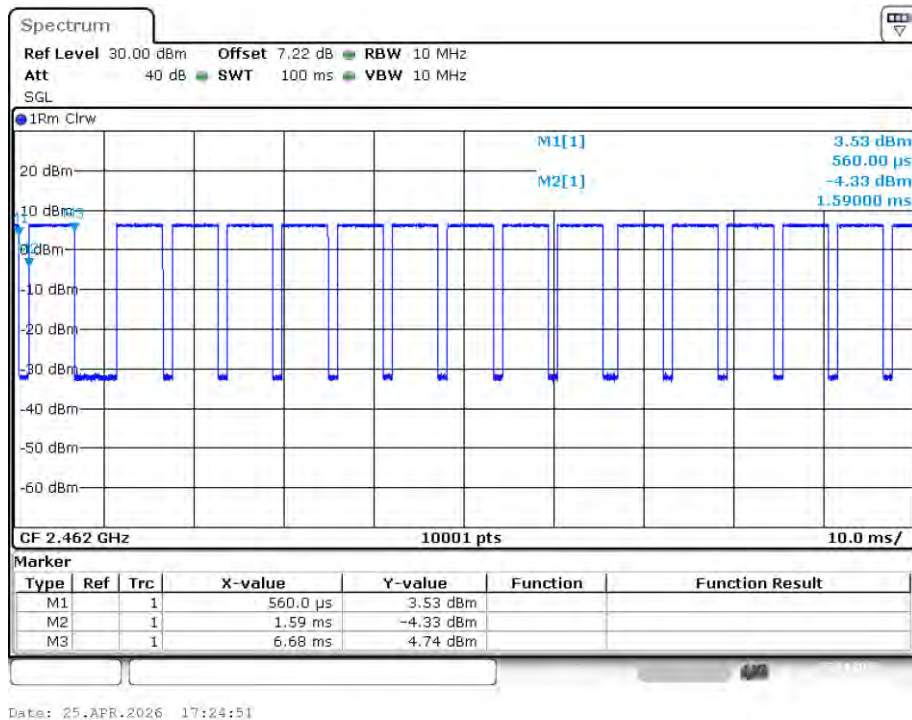


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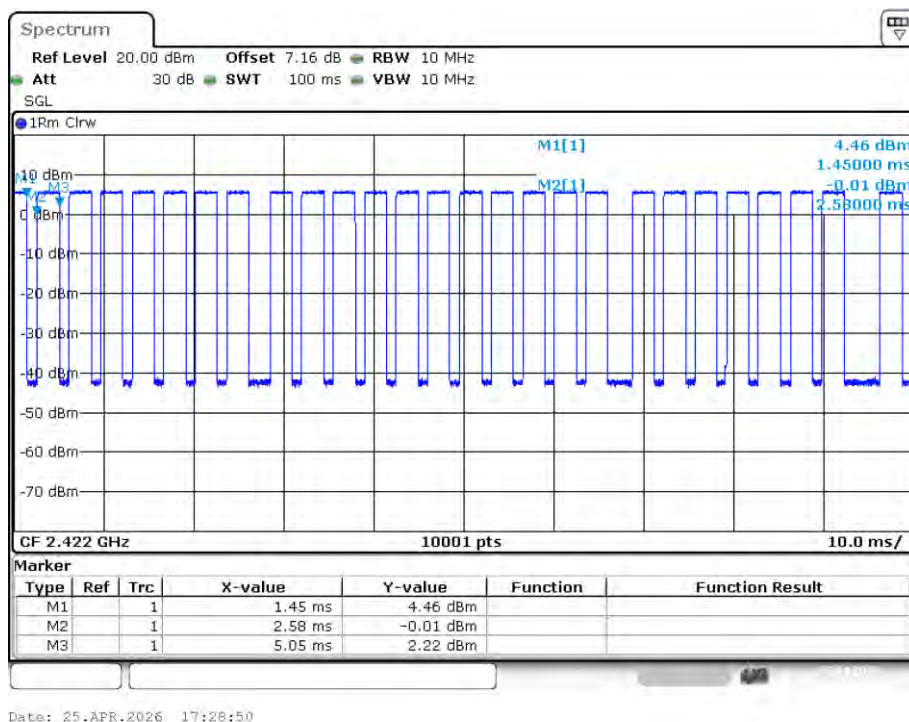
Duty Cycle NVNT n20 2437MHz Ant1



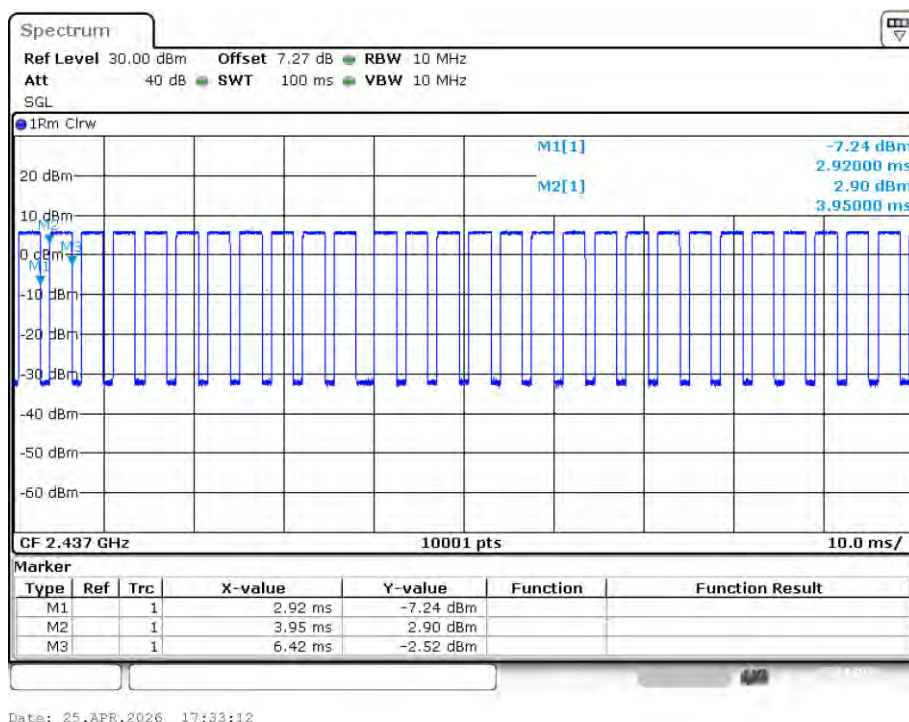
Duty Cycle NVNT n20 2462MHz Ant1



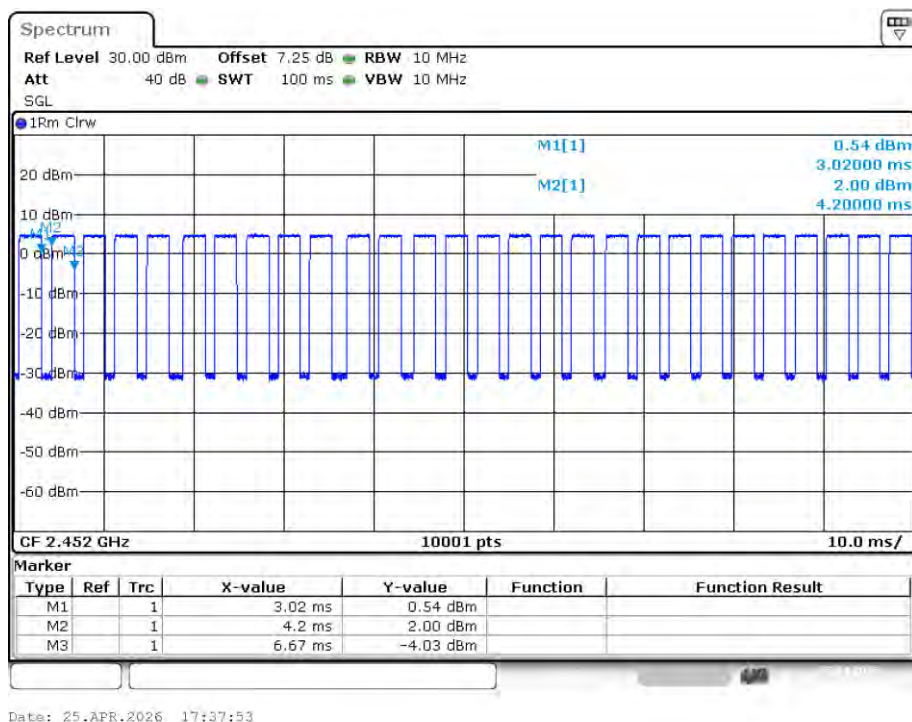
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



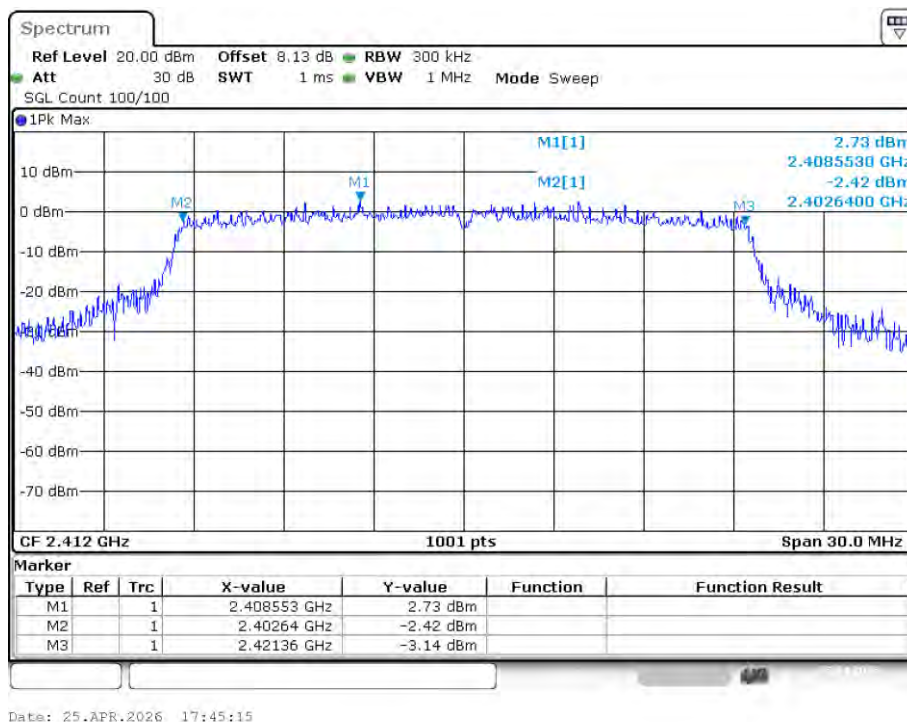
Duty Cycle NVNT n40 2452MHz Ant1

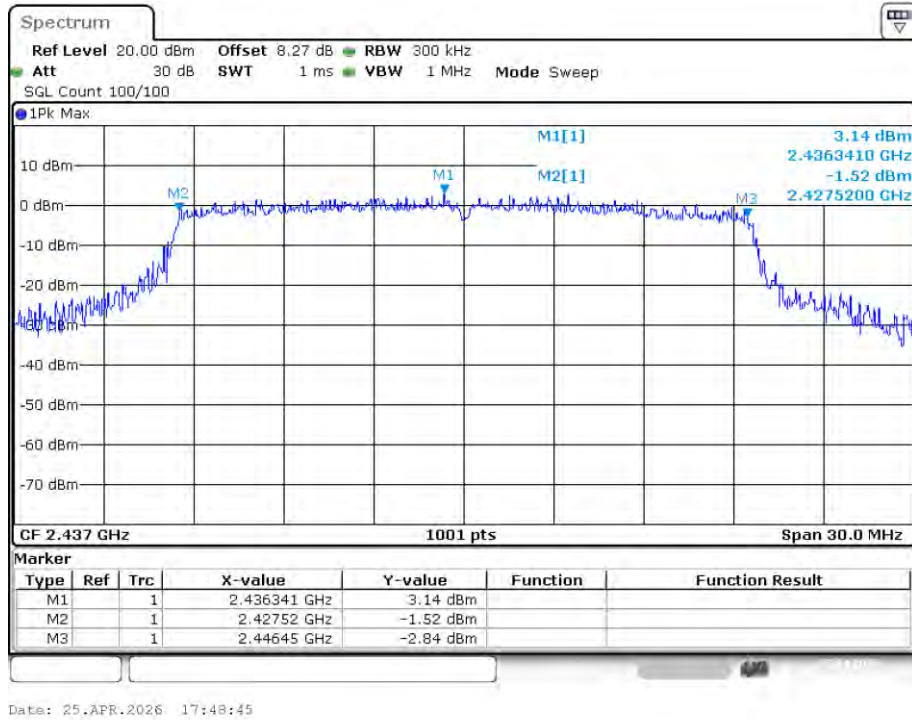
**Maximum Conducted Output Power (AVG)**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Correction Factor (dB)	Result (dBm)	Limit (dBm)	Verdict
NVNT	ax20	2412	Ant1	6.689	3.05	9.739	30	Pass
NVNT	ax20	2437	Ant1	6.43	3.03	9.46	30	Pass
NVNT	ax20	2462	Ant1	6.363	3.07	9.433	30	Pass
NVNT	ax40	2422	Ant1	7.49	1.81	9.3	30	Pass
NVNT	ax40	2437	Ant1	7.307	1.91	9.217	30	Pass
NVNT	ax40	2452	Ant1	7.281	1.81	9.091	30	Pass
NVNT	b	2412	Ant1	8.564	0.5	9.064	30	Pass
NVNT	b	2437	Ant1	8.647	0.5	9.147	30	Pass
NVNT	b	2462	Ant1	8.981	0.5	9.481	30	Pass
NVNT	g	2412	Ant1	6.919	2.39	9.309	30	Pass
NVNT	g	2437	Ant1	6.772	2.41	9.182	30	Pass
NVNT	g	2462	Ant1	6.583	2.39	8.973	30	Pass
NVNT	n20	2412	Ant1	8.269	0.81	9.079	30	Pass
NVNT	n20	2437	Ant1	8.66	0.81	9.47	30	Pass
NVNT	n20	2462	Ant1	8.208	0.8	9.008	30	Pass
NVNT	n40	2422	Ant1	8.115	1.64	9.755	30	Pass
NVNT	n40	2437	Ant1	8.06	1.51	9.57	30	Pass
NVNT	n40	2452	Ant1	7.63	1.7	9.33	30	Pass

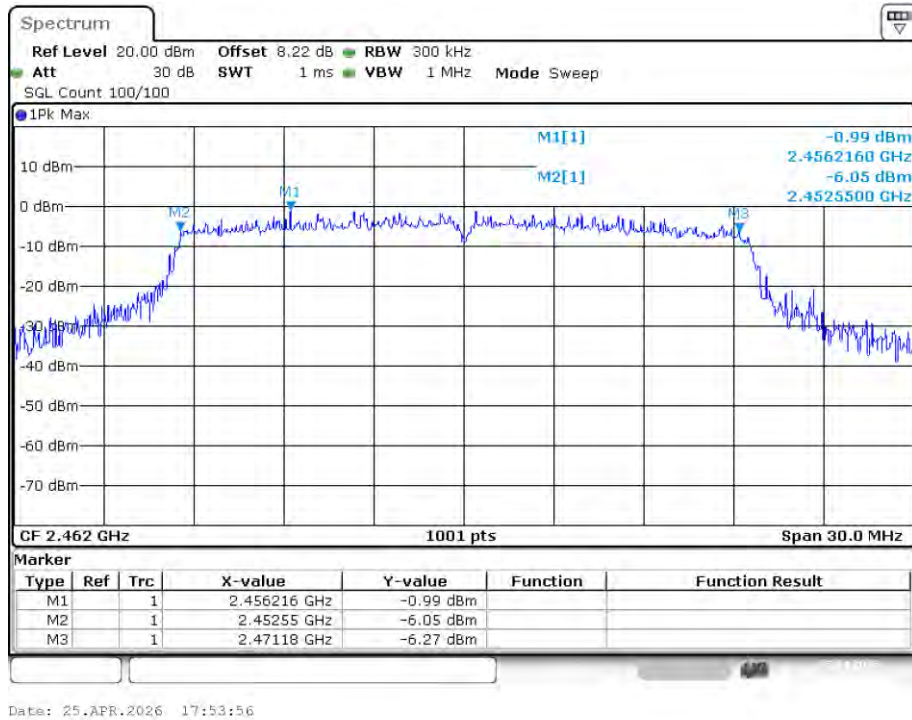
**-6dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	2412	Ant1	18.72	0.5	Pass
NVNT	ax20	2437	Ant1	18.93	0.5	Pass
NVNT	ax20	2462	Ant1	18.63	0.5	Pass
NVNT	ax40	2422	Ant1	36.66	0.5	Pass
NVNT	ax40	2437	Ant1	37.08	0.5	Pass
NVNT	ax40	2452	Ant1	37.32	0.5	Pass
NVNT	b	2412	Ant1	9.18	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	16.44	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	17.31	0.5	Pass
NVNT	n20	2437	Ant1	17.49	0.5	Pass
NVNT	n20	2462	Ant1	17.55	0.5	Pass
NVNT	n40	2422	Ant1	36	0.5	Pass
NVNT	n40	2437	Ant1	35.88	0.5	Pass
NVNT	n40	2452	Ant1	36.18	0.5	Pass

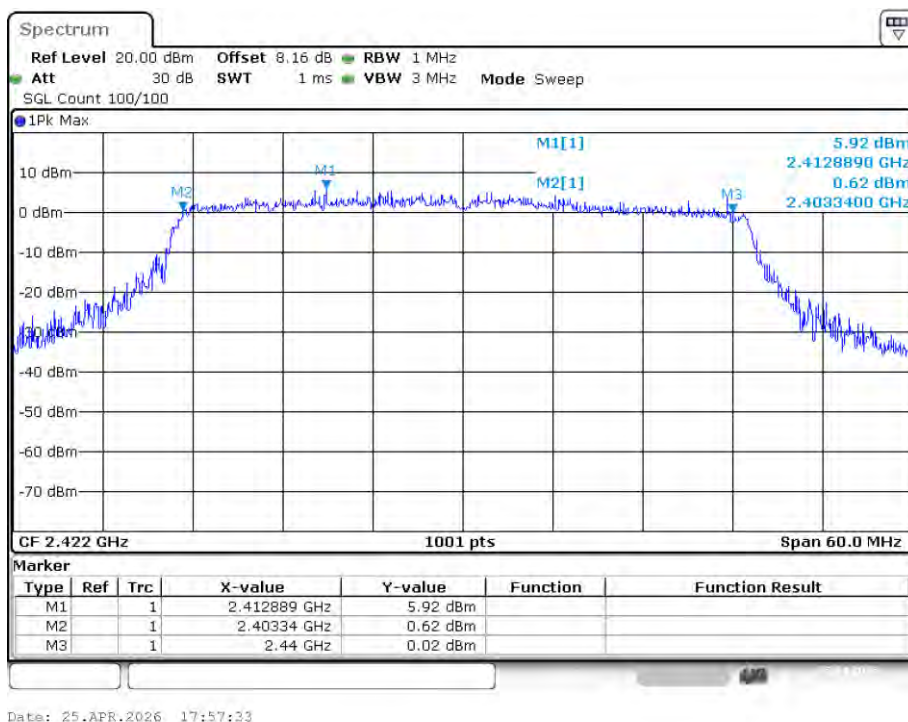
-6dB Bandwidth NVNT ax20 2412MHz Ant1**-6dB Bandwidth NVNT ax20 2437MHz Ant1**



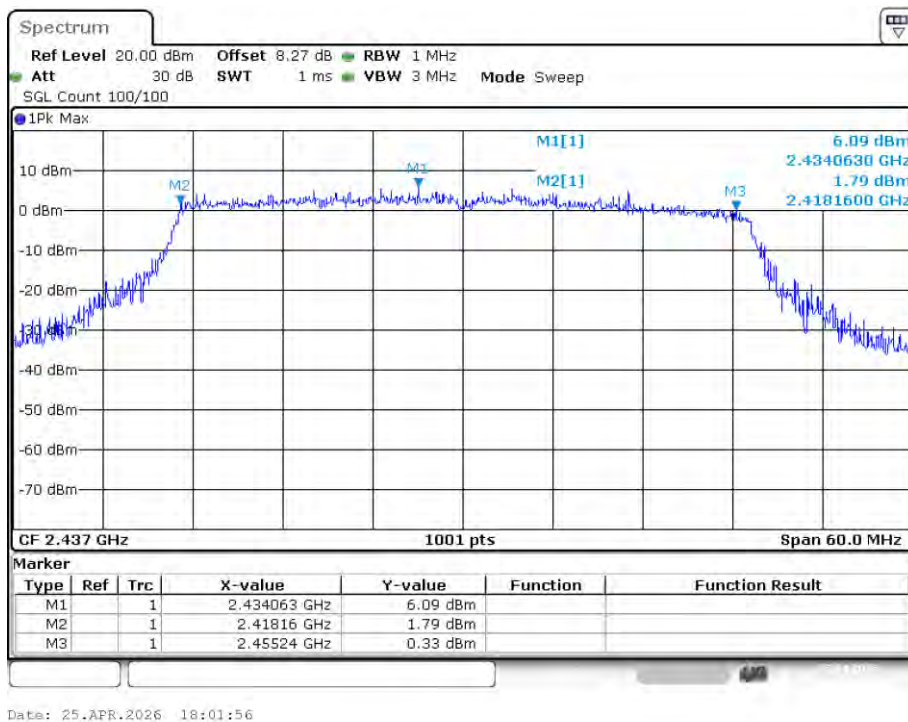
-6dB Bandwidth NVNT ax20 2462MHz Ant1



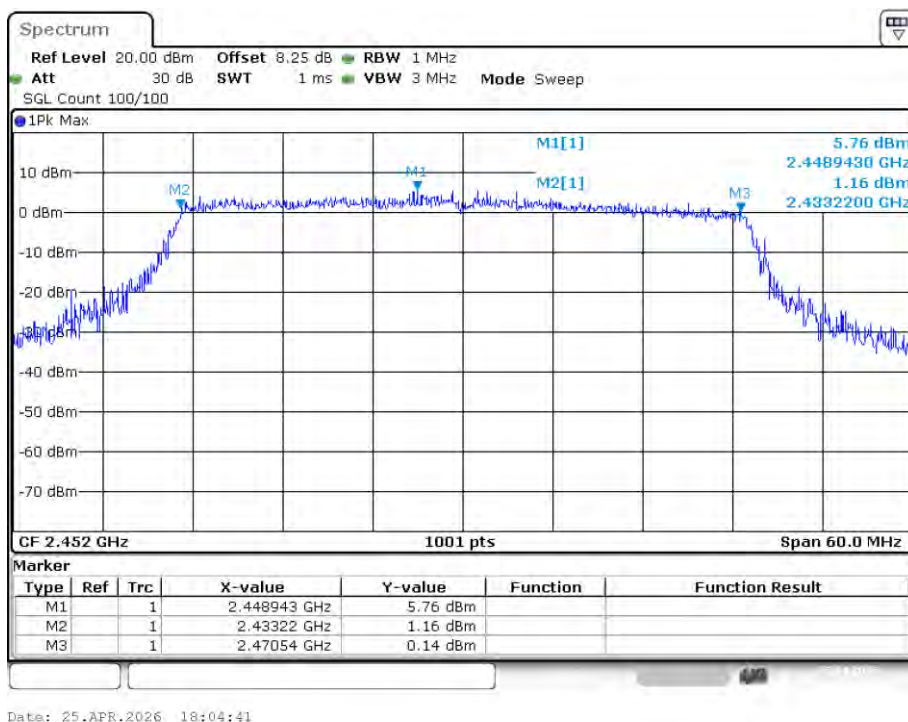
-6dB Bandwidth NVNT ax40 2422MHz Ant1



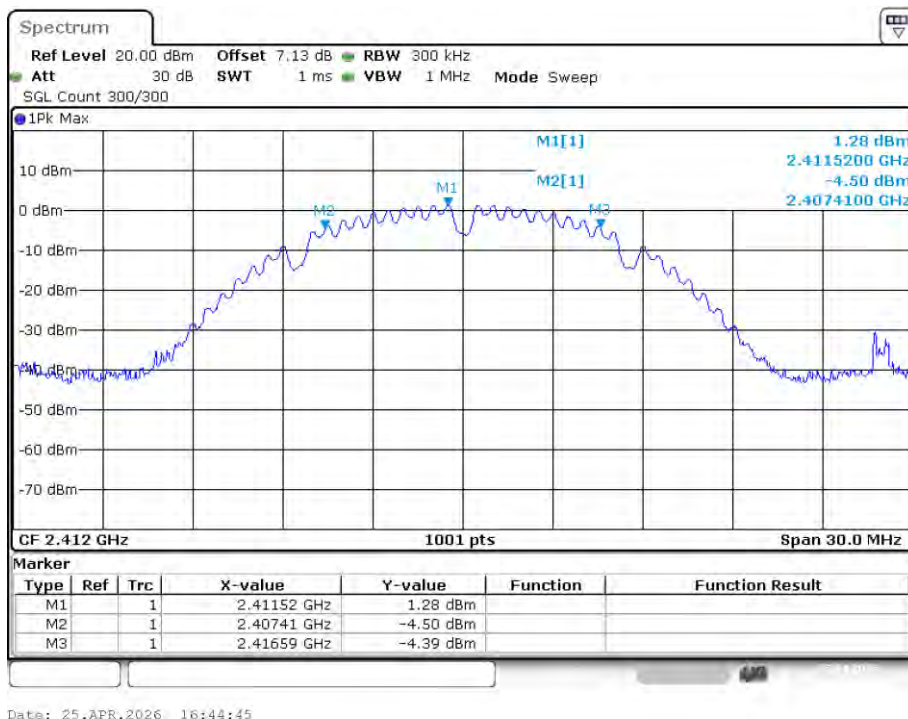
-6dB Bandwidth NVNT ax40 2437MHz Ant1



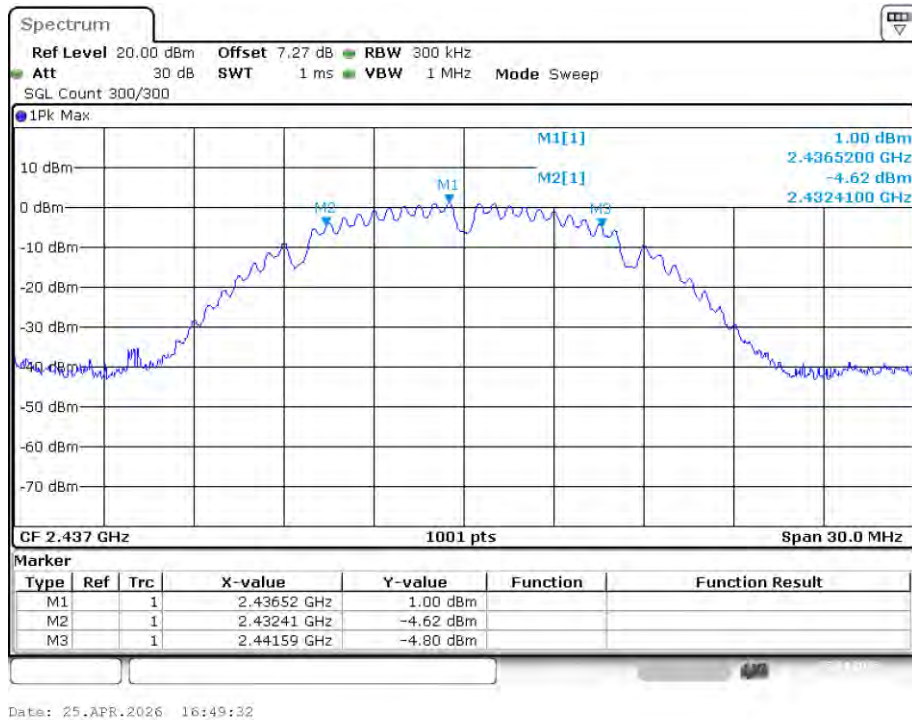
-6dB Bandwidth NVNT ax40 2452MHz Ant1



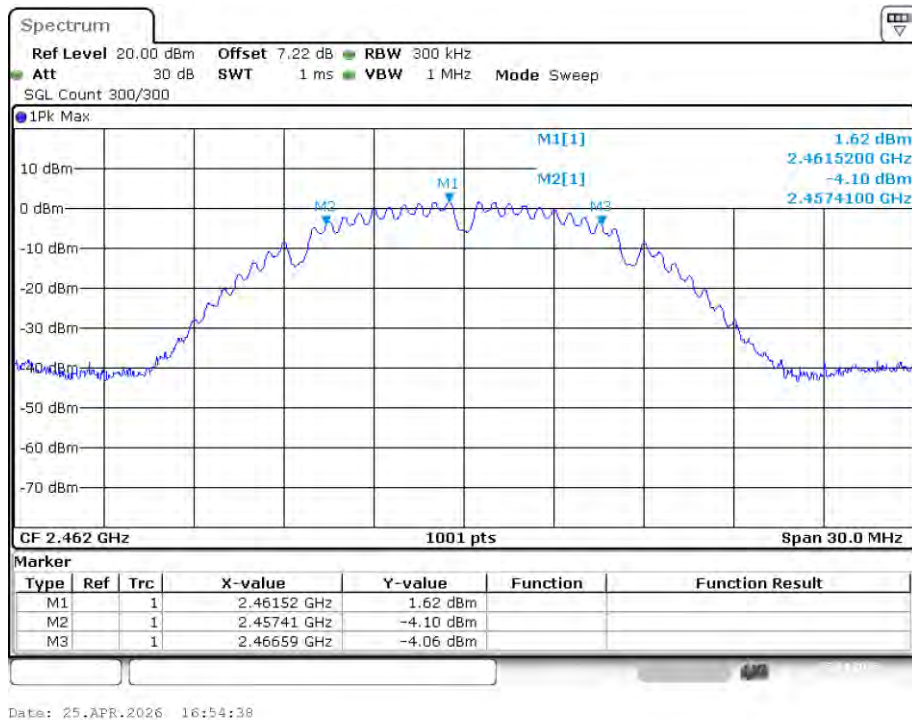
-6dB Bandwidth NVNT b 2412MHz Ant1



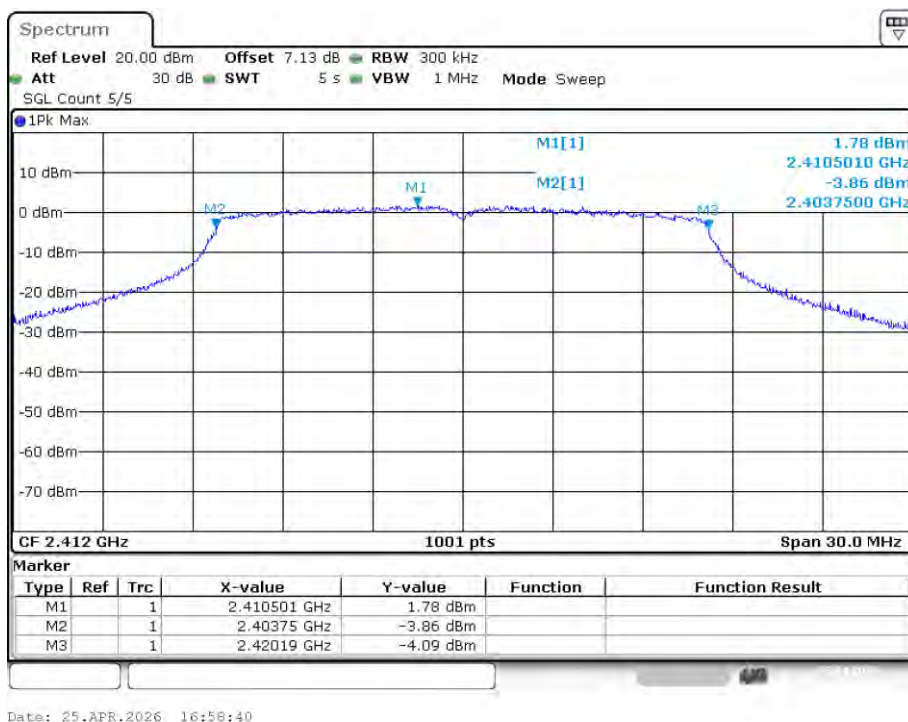
-6dB Bandwidth NVNT b 2437MHz Ant1



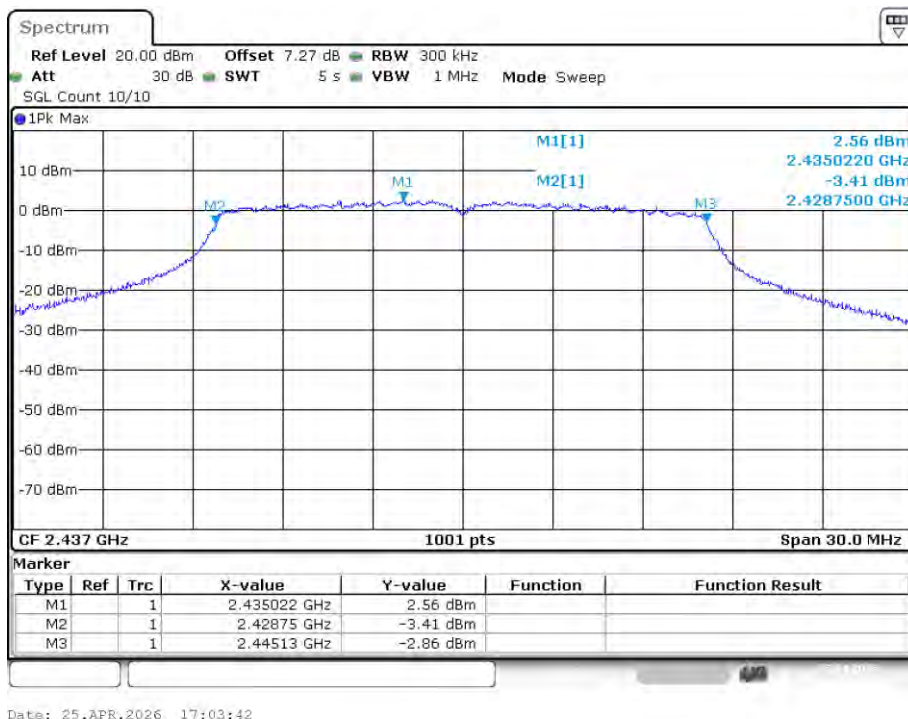
-6dB Bandwidth NVNT b 2462MHz Ant1



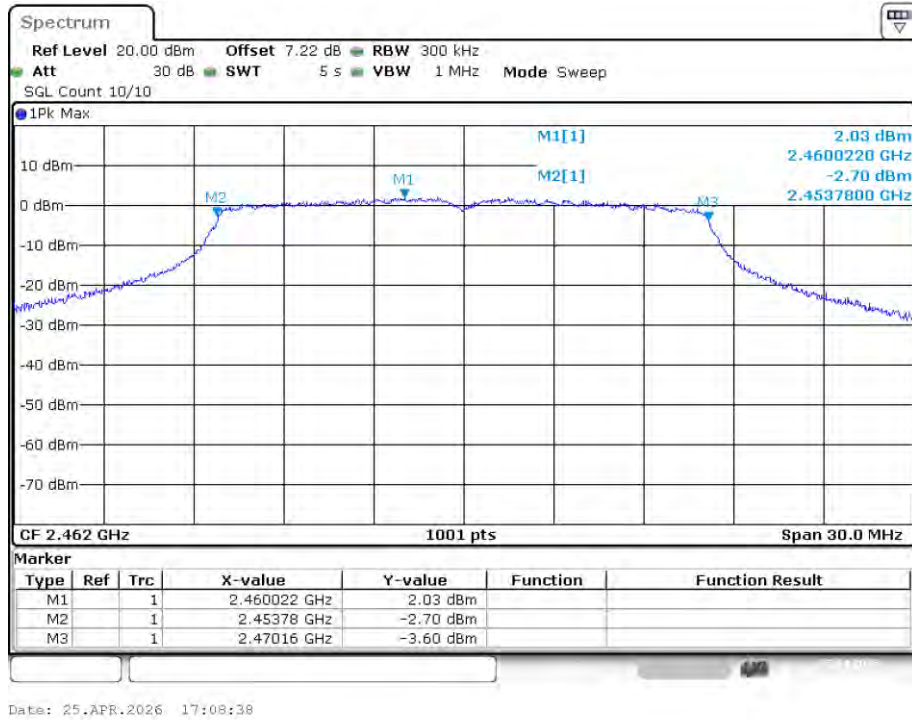
-6dB Bandwidth NVNT g 2412MHz Ant1



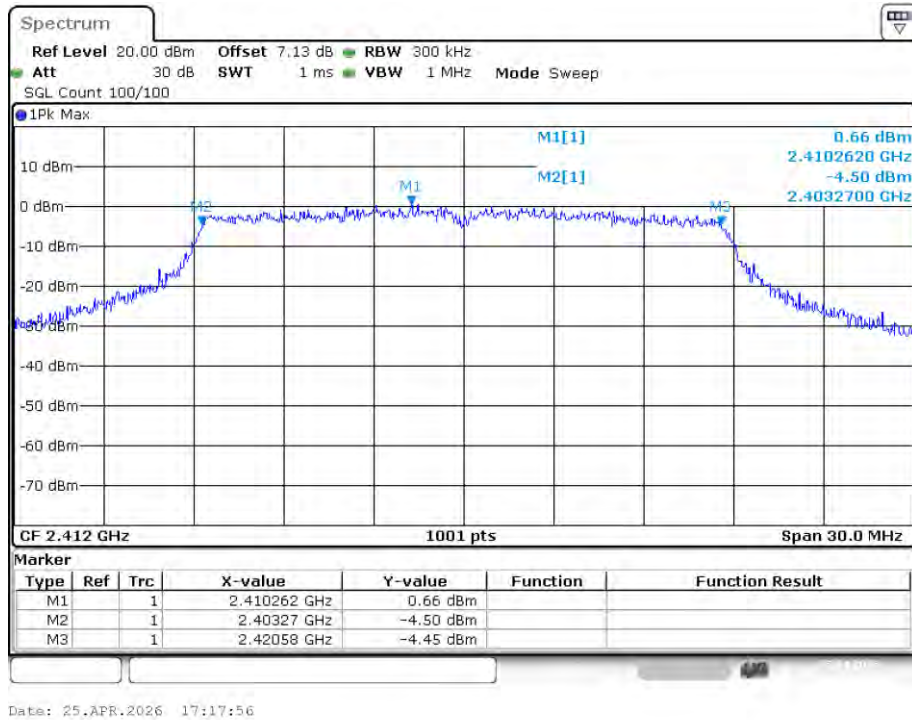
-6dB Bandwidth NVNT g 2437MHz Ant1



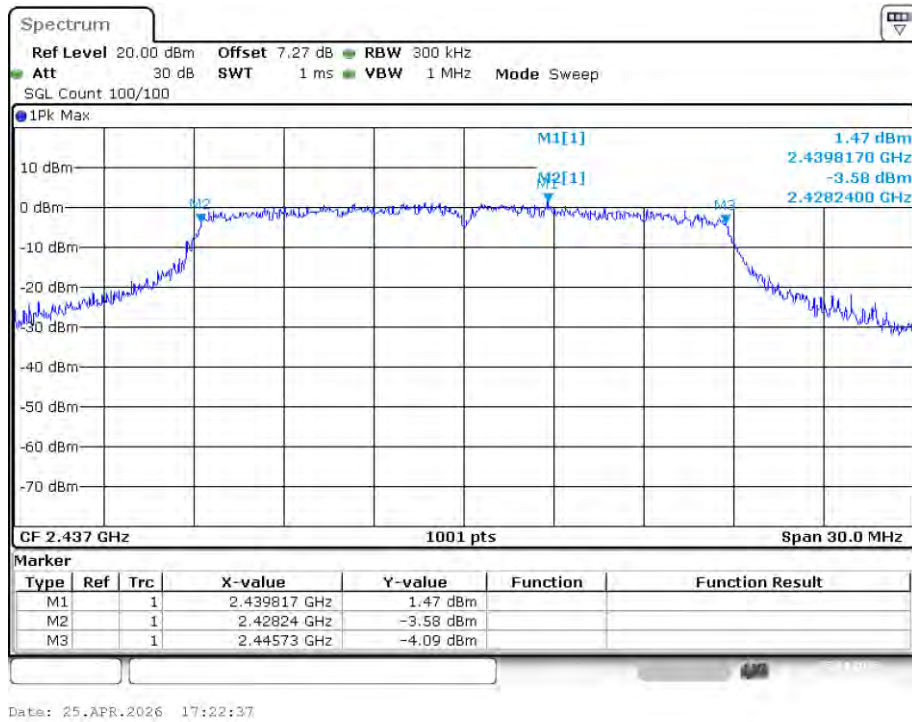
-6dB Bandwidth NVNT g 2462MHz Ant1



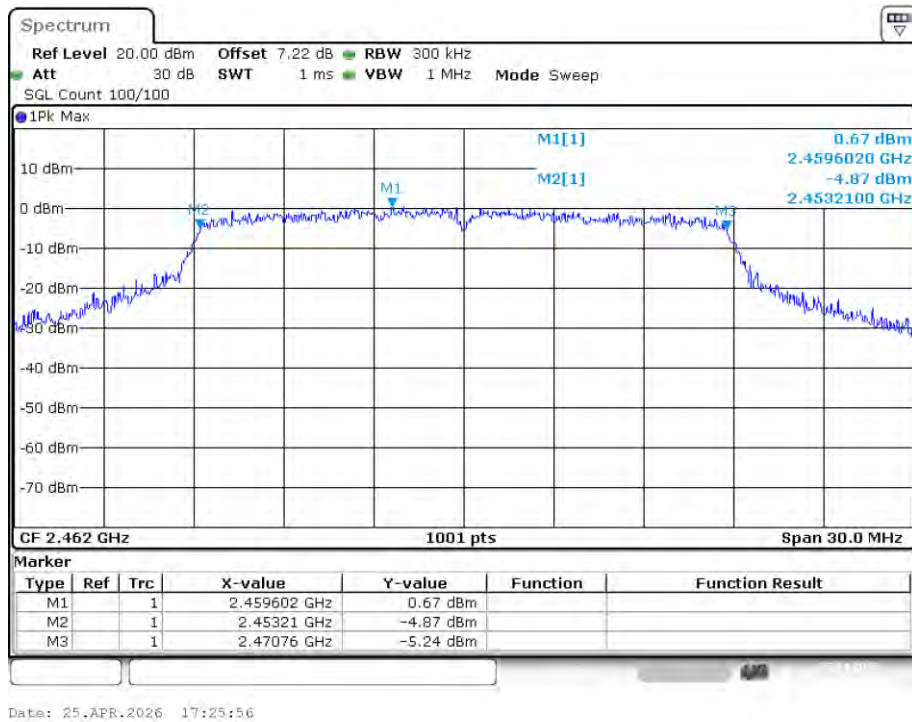
-6dB Bandwidth NVNT n20 2412MHz Ant1



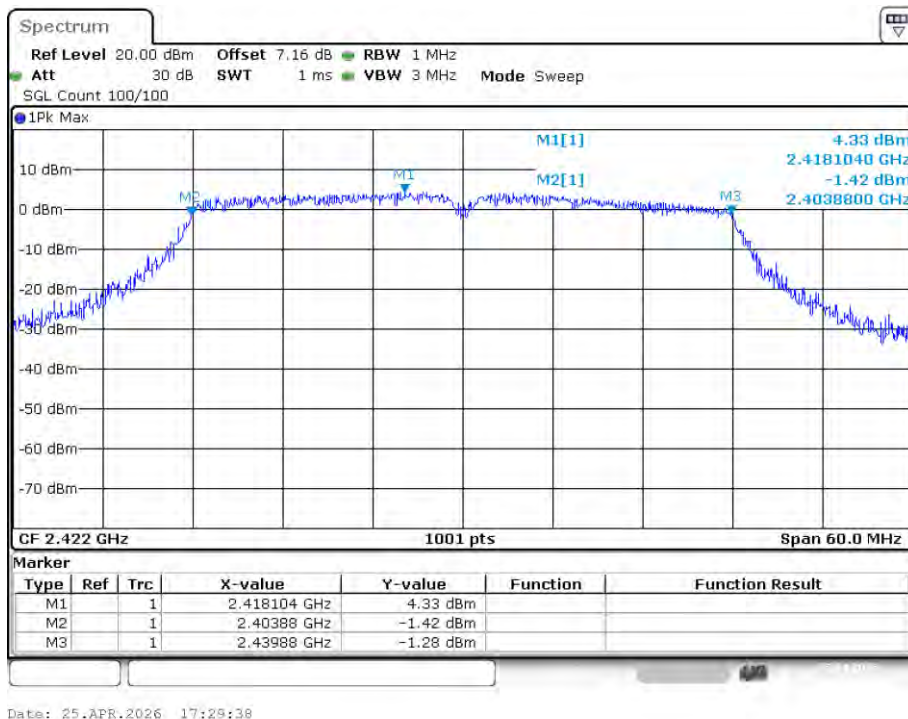
-6dB Bandwidth NVNT n20 2437MHz Ant1



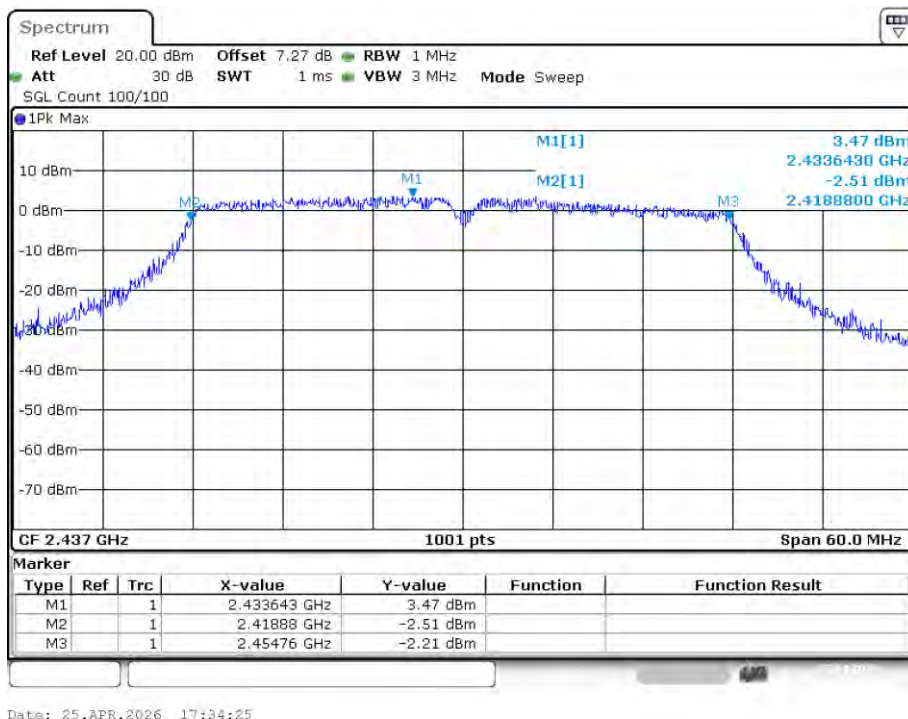
-6dB Bandwidth NVNT n20 2462MHz Ant1



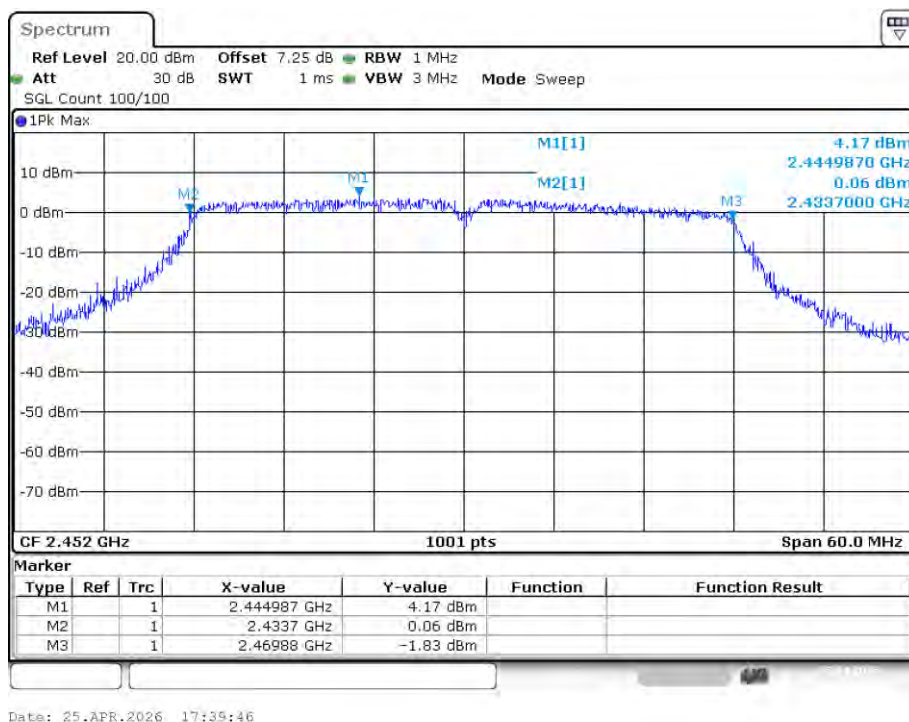
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



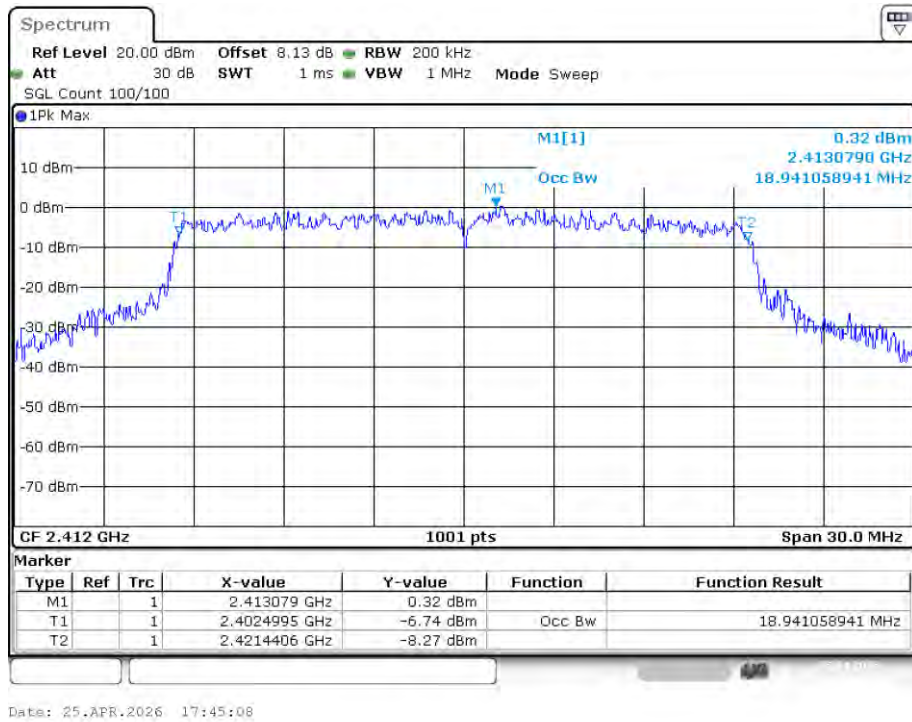
-6dB Bandwidth NVNT n40 2452MHz Ant1



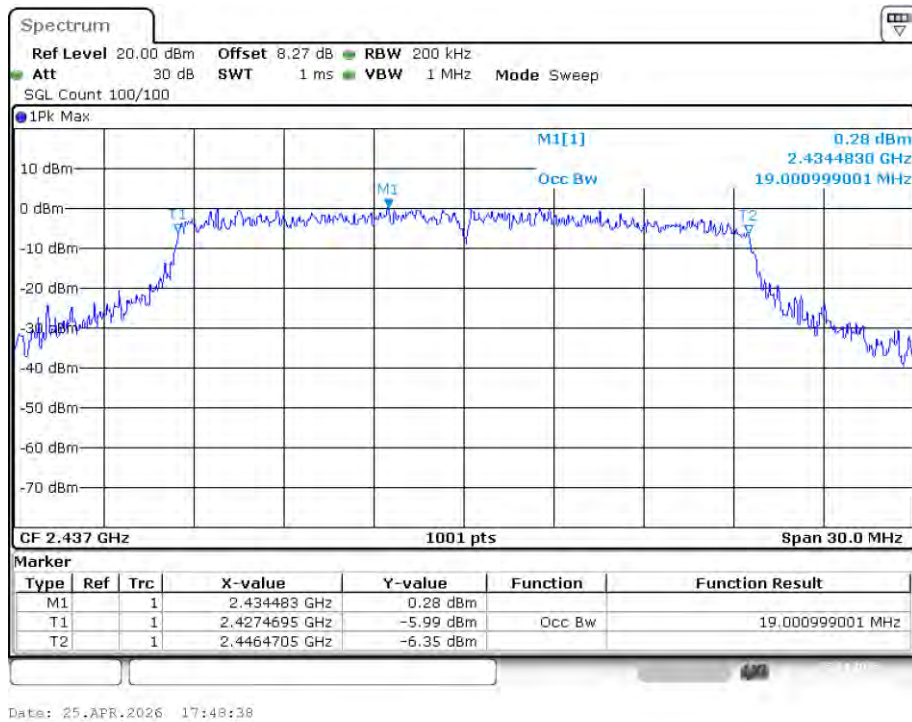
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax20	2412	Ant1	18.941
NVNT	ax20	2437	Ant1	19.001
NVNT	ax20	2462	Ant1	19.001
NVNT	ax40	2422	Ant1	37.702
NVNT	ax40	2437	Ant1	37.702
NVNT	ax40	2452	Ant1	37.882
NVNT	b	2412	Ant1	13.127
NVNT	b	2437	Ant1	13.127
NVNT	b	2462	Ant1	13.157
NVNT	g	2412	Ant1	16.633
NVNT	g	2437	Ant1	16.573
NVNT	g	2462	Ant1	16.603
NVNT	n20	2412	Ant1	17.802
NVNT	n20	2437	Ant1	17.802
NVNT	n20	2462	Ant1	17.862
NVNT	n40	2422	Ant1	36.563
NVNT	n40	2437	Ant1	36.444
NVNT	n40	2452	Ant1	36.444

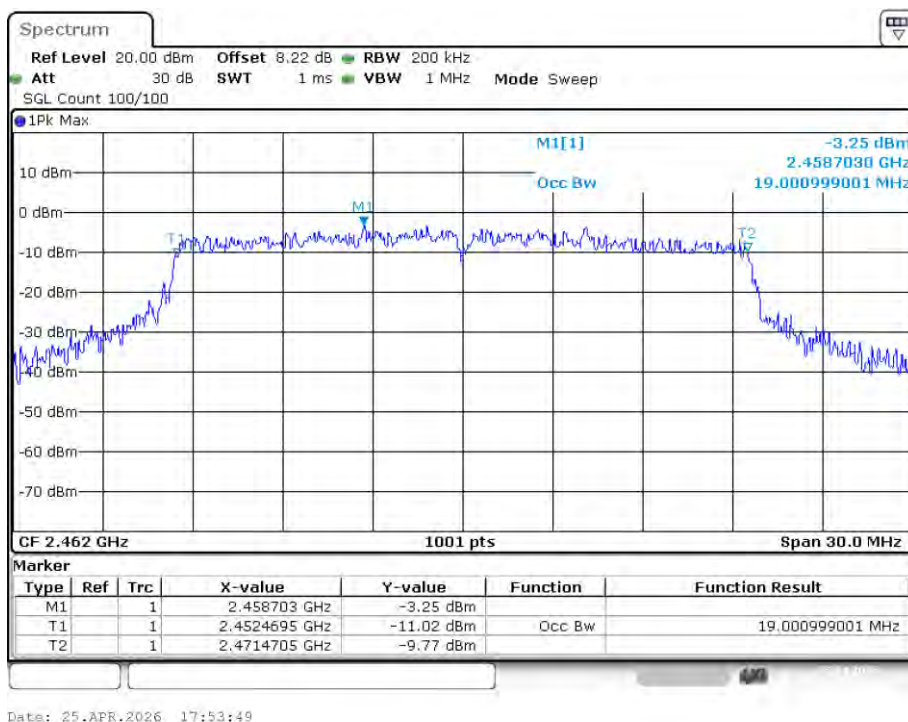
OBW NVNT ax20 2412MHz Ant1



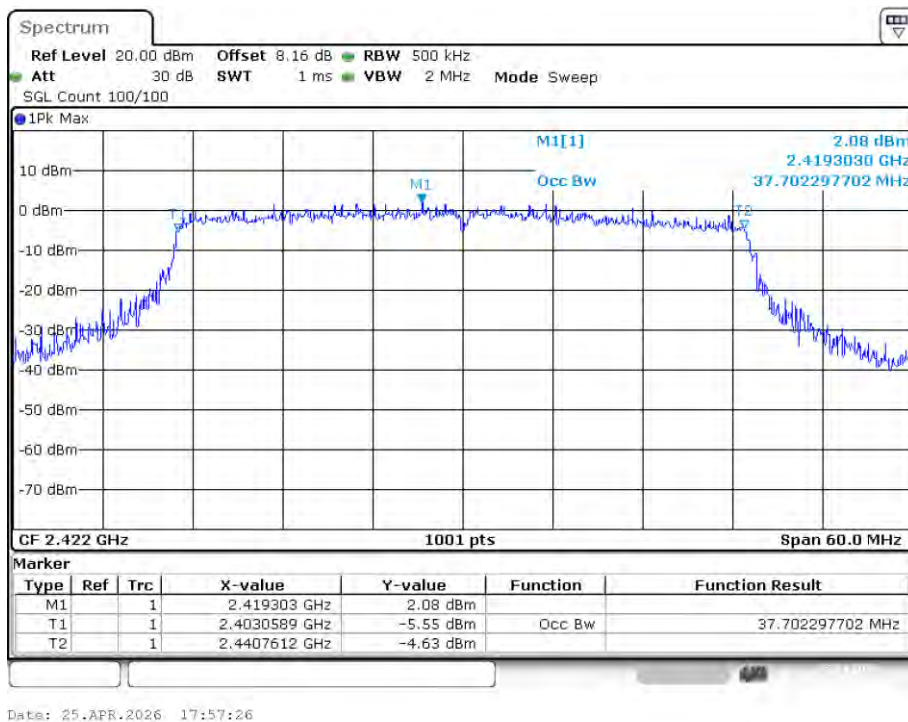
OBW NVNT ax20 2437MHz Ant1



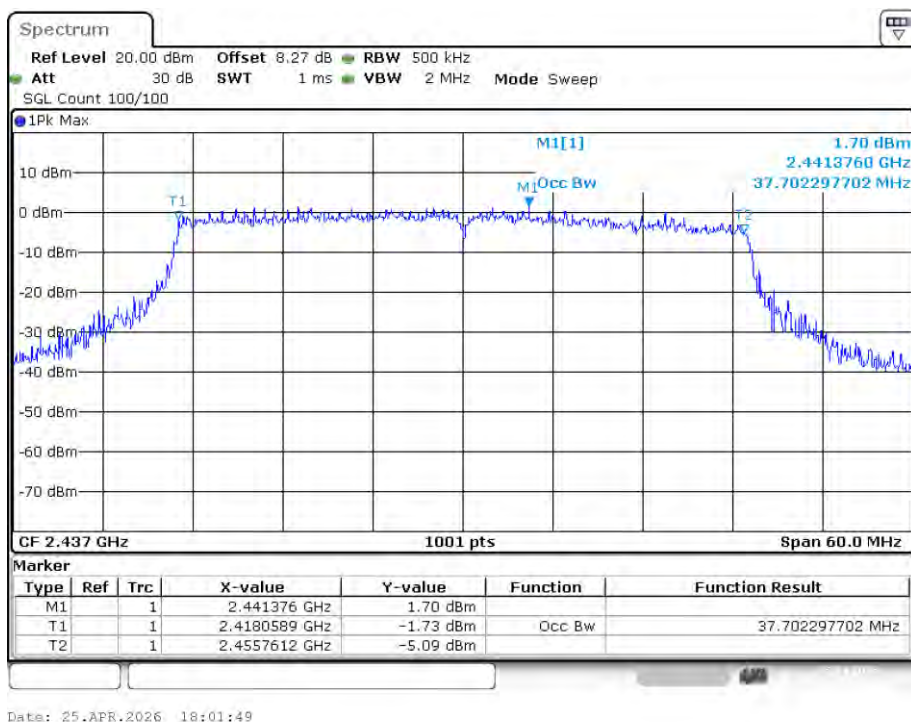
OBW NVNT ax20 2462MHz Ant1



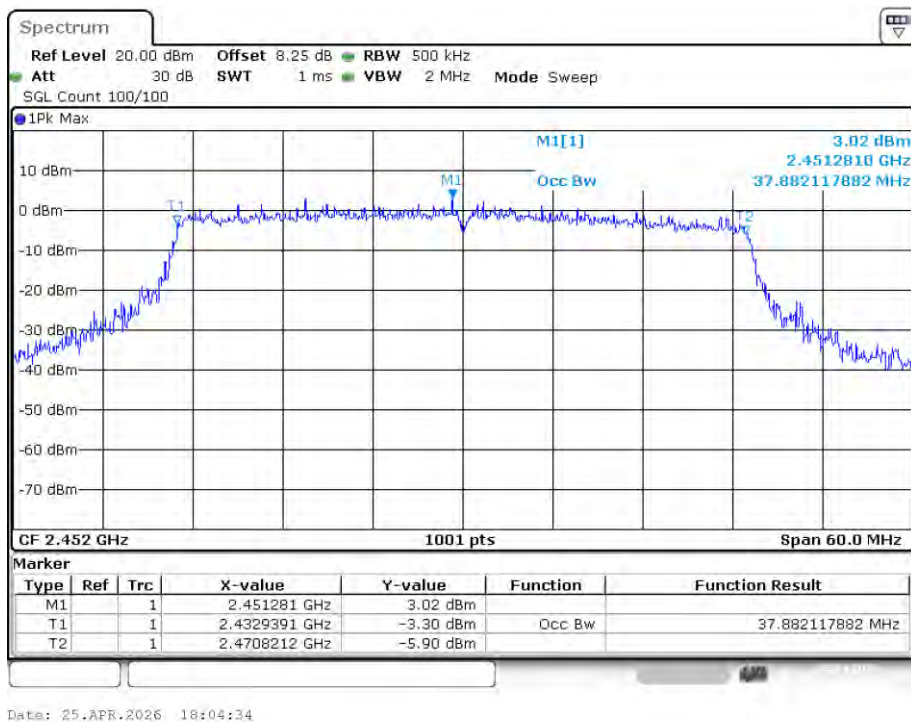
OBW NVNT ax40 2422MHz Ant1



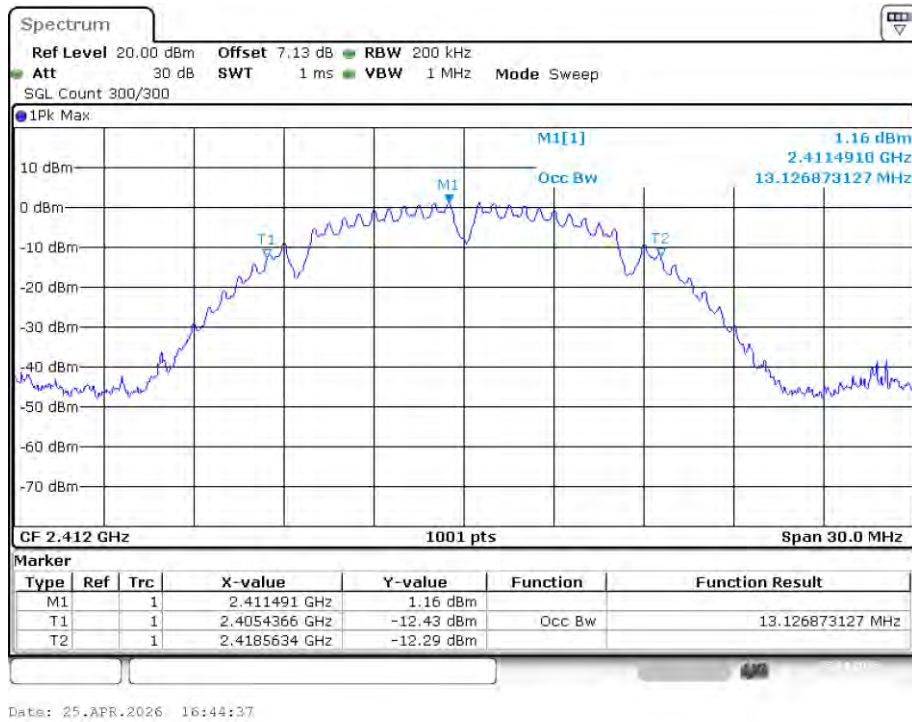
OBW NVNT ax40 2437MHz Ant1



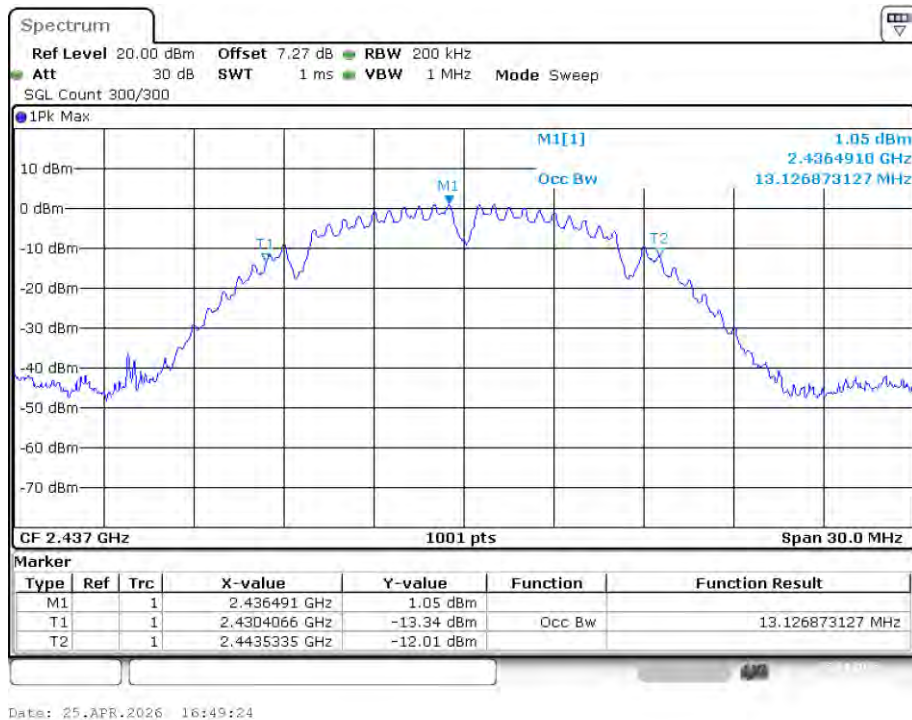
OBW NVNT ax40 2452MHz Ant1



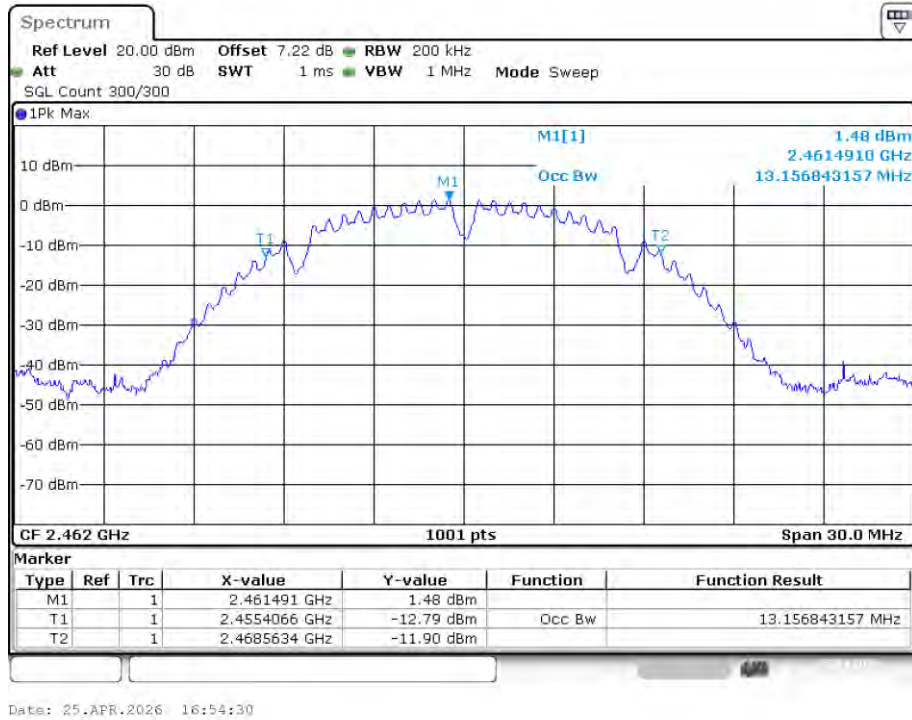
OBW NVNT b 2412MHz Ant1



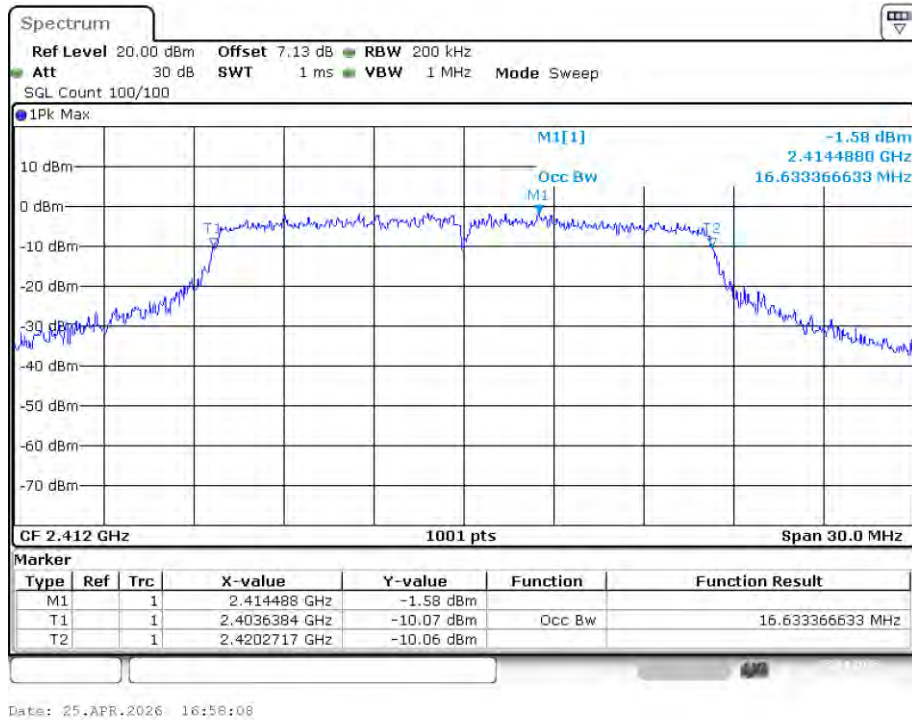
OBW NVNT b 2437MHz Ant1



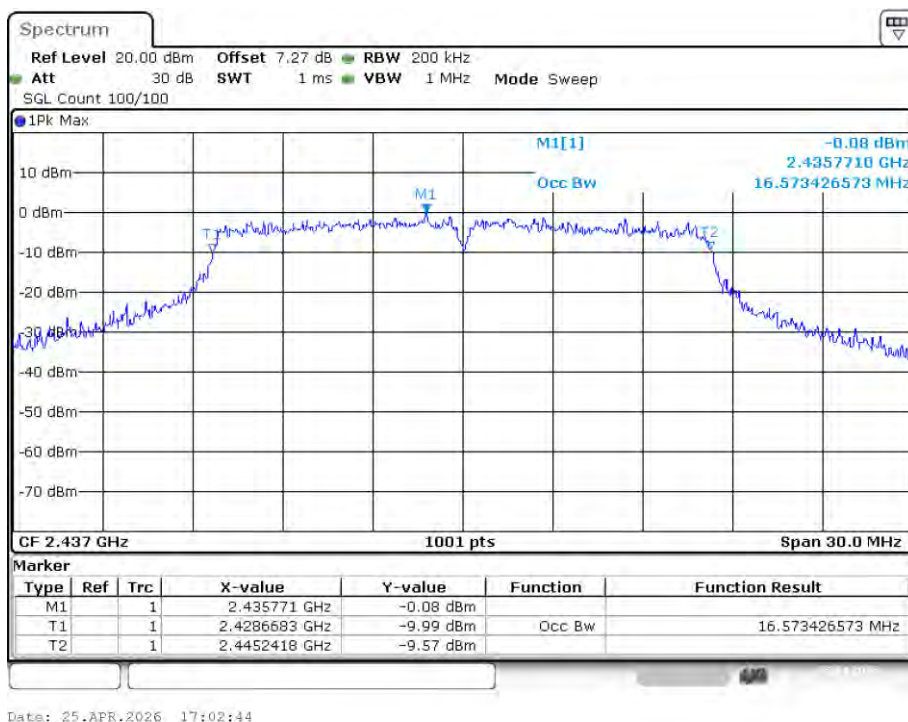
OBW NVNT b 2462MHz Ant1



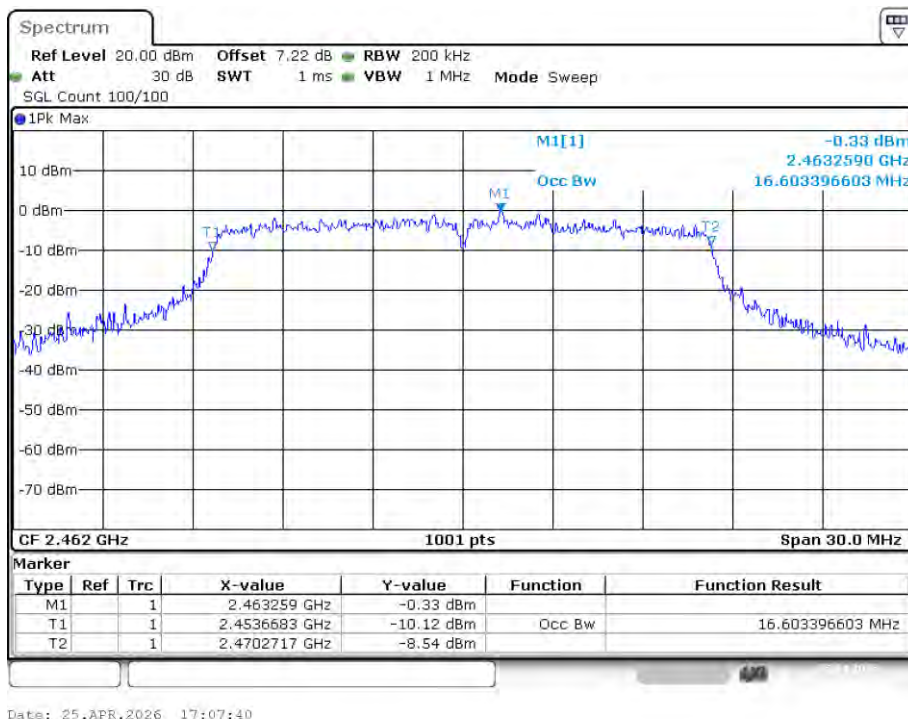
OBW NVNT g 2412MHz Ant1



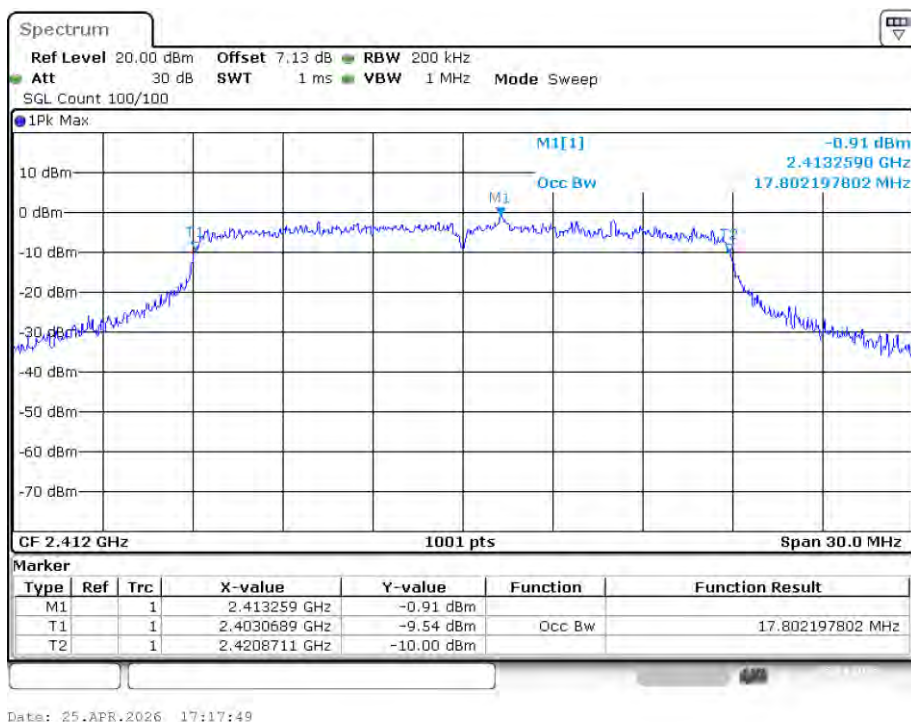
OBW NVNT g 2437MHz Ant1



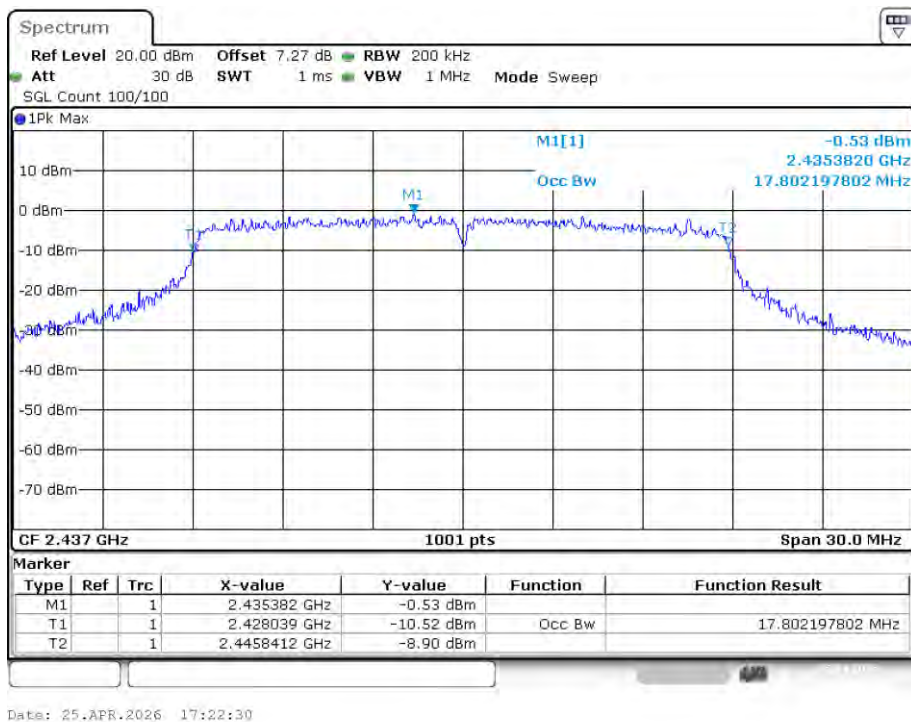
OBW NVNT g 2462MHz Ant1



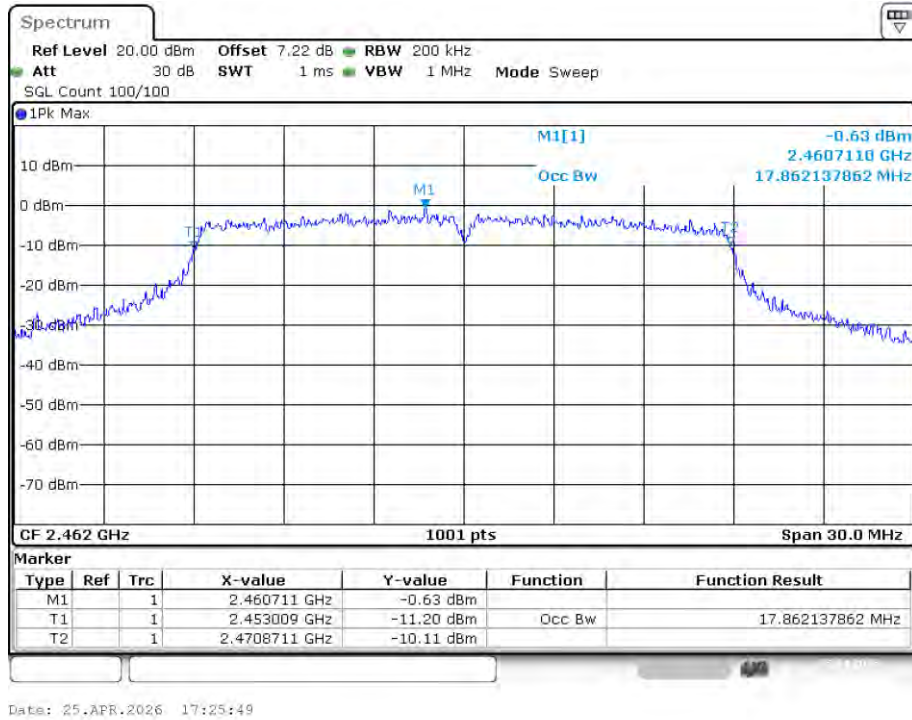
OBW NVNT n20 2412MHz Ant1



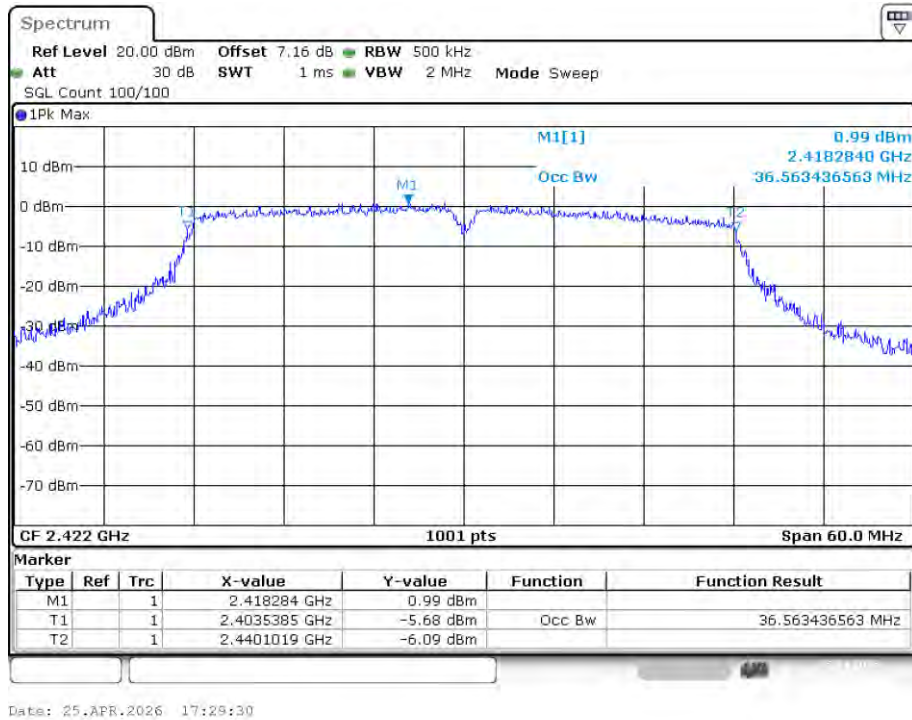
OBW NVNT n20 2437MHz Ant1



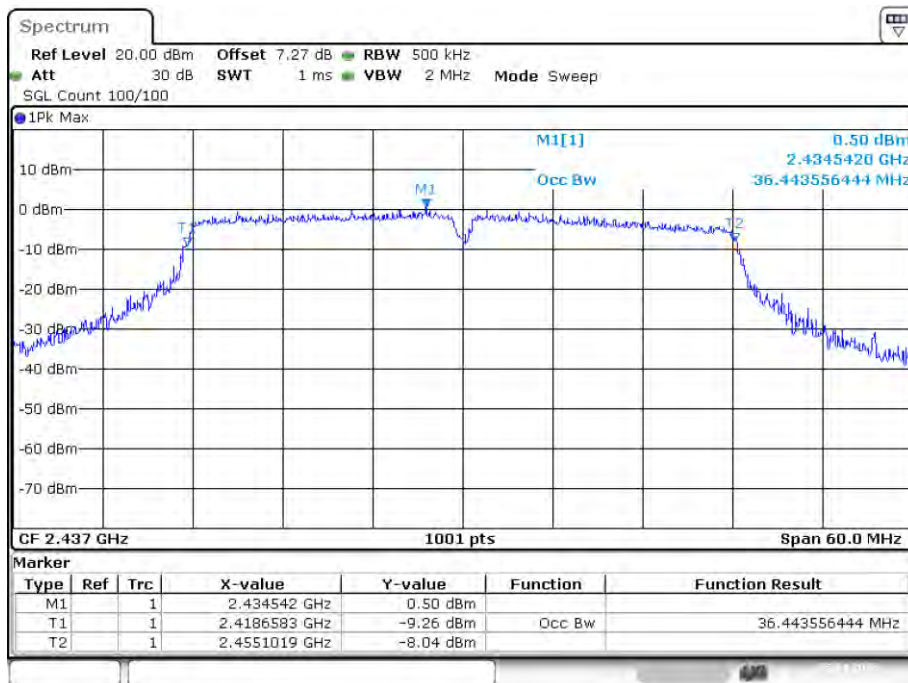
OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1

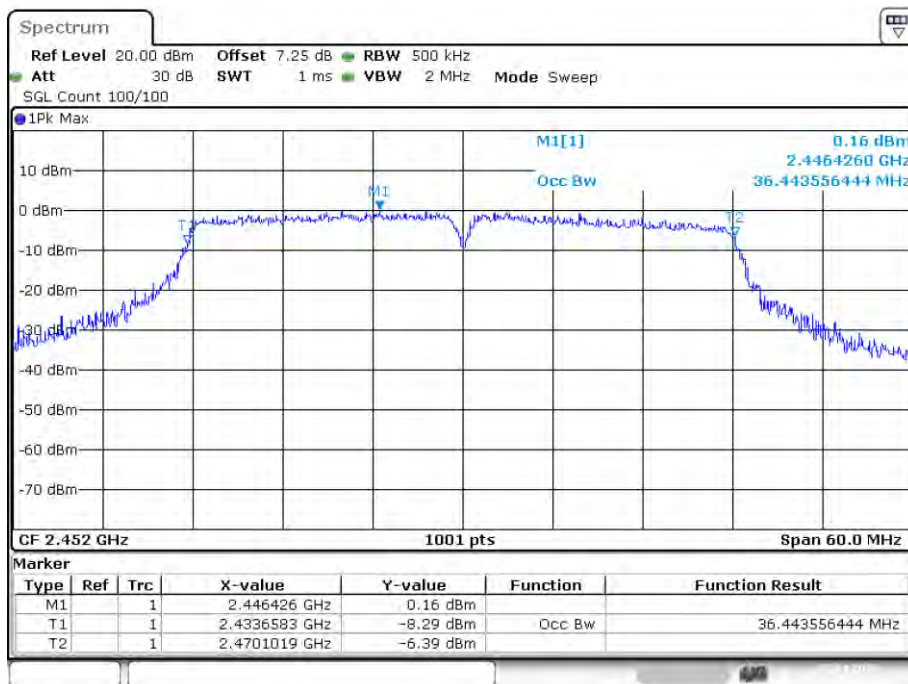


OBW NVNT n40 2437MHz Ant1



Date: 25.APR.2026 17:34:18

OBW NVNT n40 2452MHz Ant1

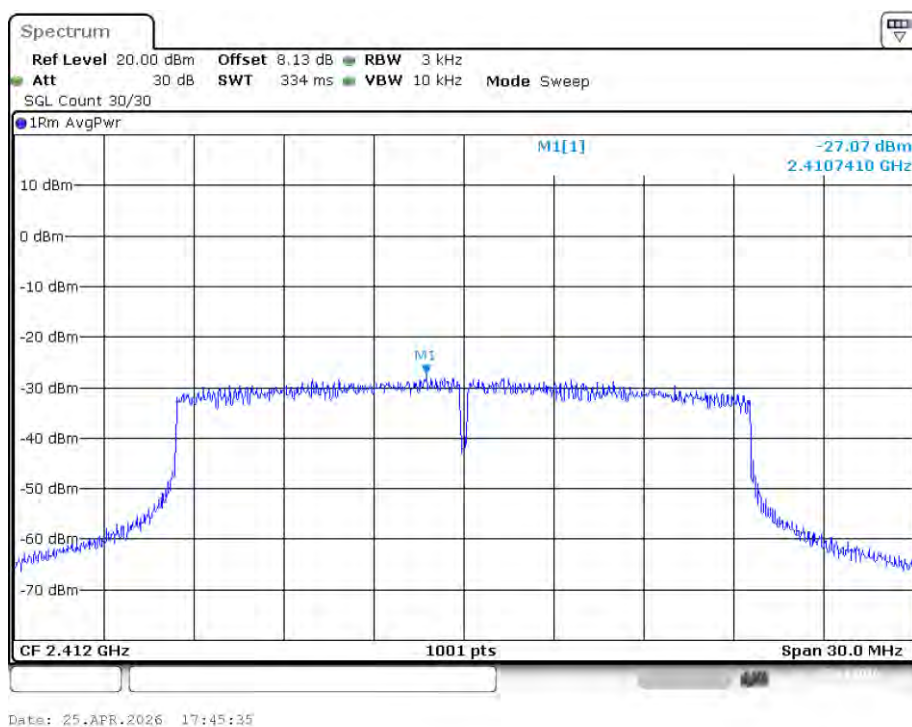


Date: 25.APR.2026 17:39:38

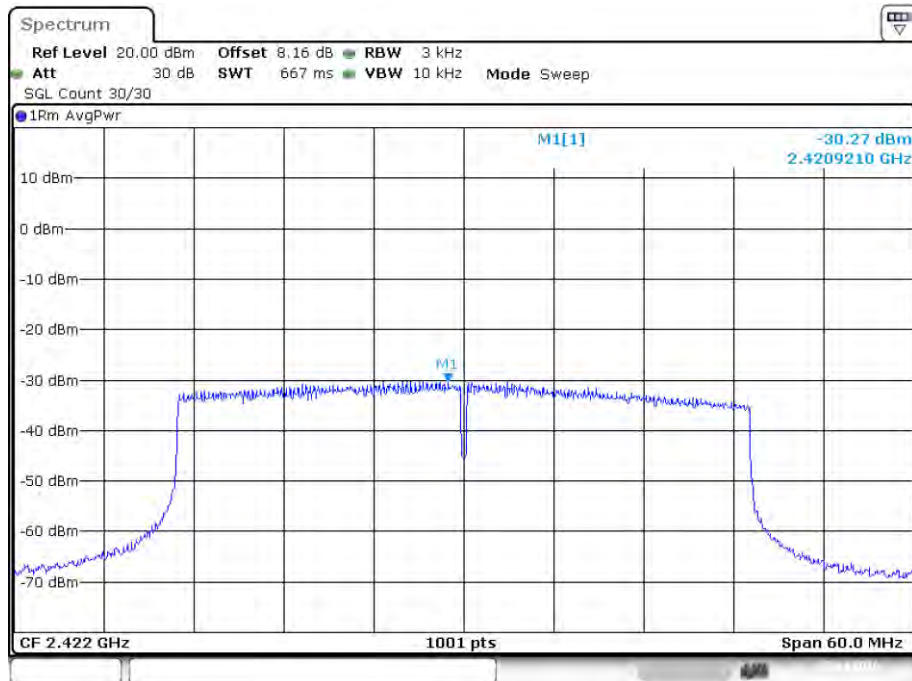
**Maximum Power Spectral Density Level**

Condition	Mode	Frequency (MHz)	Antenna	Conduct PSD(dBm/3KHz)	Limit (dBm/3KHz)	Verdict
NVNT	ax20	2412	Ant1	-27.069	8	Pass
NVNT	ax20	2437	Ant1	-26.973	8	Pass
NVNT	ax20	2462	Ant1	-31.393	8	Pass
NVNT	ax40	2422	Ant1	-30.274	8	Pass
NVNT	ax40	2437	Ant1	-30.563	8	Pass
NVNT	ax40	2452	Ant1	-30.59	8	Pass
NVNT	b	2412	Ant1	-21.845	8	Pass
NVNT	b	2437	Ant1	-22.313	8	Pass
NVNT	b	2462	Ant1	-21.898	8	Pass
NVNT	g	2412	Ant1	-25.546	8	Pass
NVNT	g	2437	Ant1	-25.309	8	Pass
NVNT	g	2462	Ant1	-25.401	8	Pass
NVNT	n20	2412	Ant1	-25.092	8	Pass
NVNT	n20	2437	Ant1	-23.898	8	Pass
NVNT	n20	2462	Ant1	-25.101	8	Pass
NVNT	n40	2422	Ant1	-27.309	8	Pass
NVNT	n40	2437	Ant1	-28.468	8	Pass
NVNT	n40	2452	Ant1	-28.071	8	Pass

PSD NVNT ax20 2412MHz Ant1

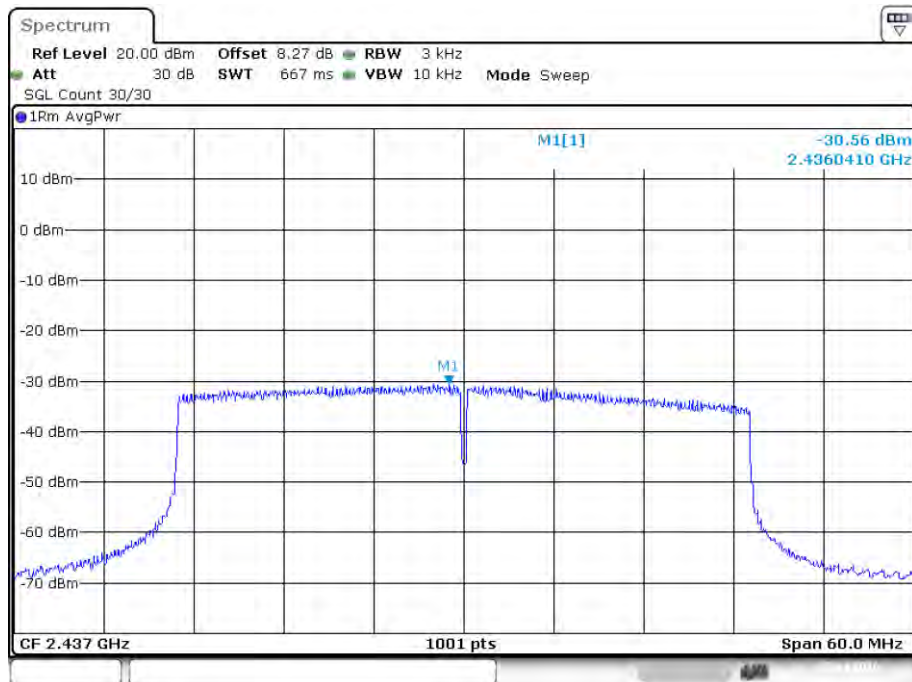


PSD NVNT ax20 2437MHz Ant1



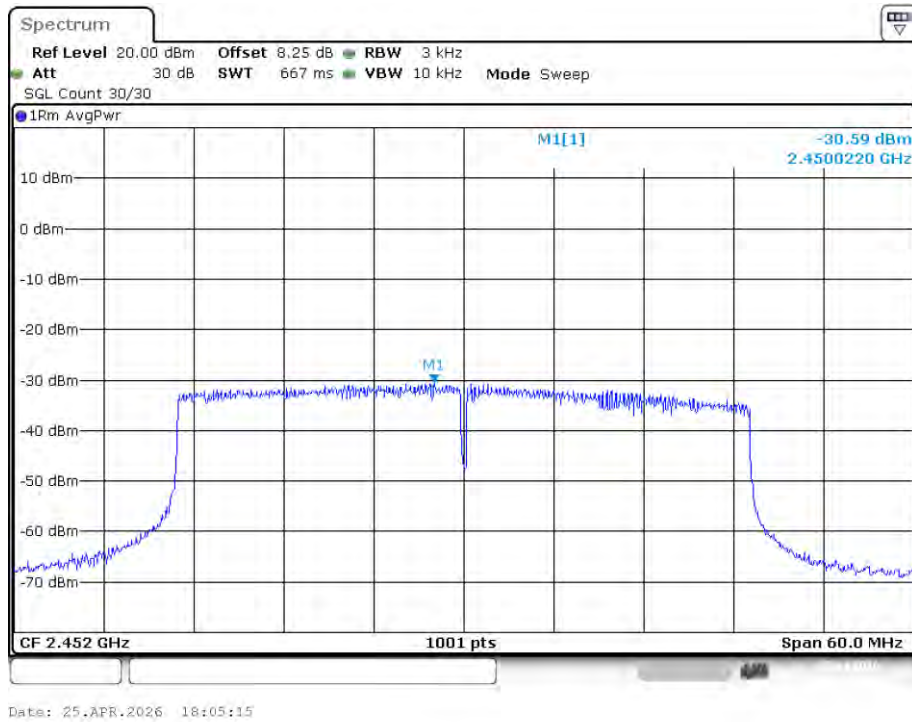
Date: 25.APR.2026 17:58:07

PSD NVNT ax40 2437MHz Ant1

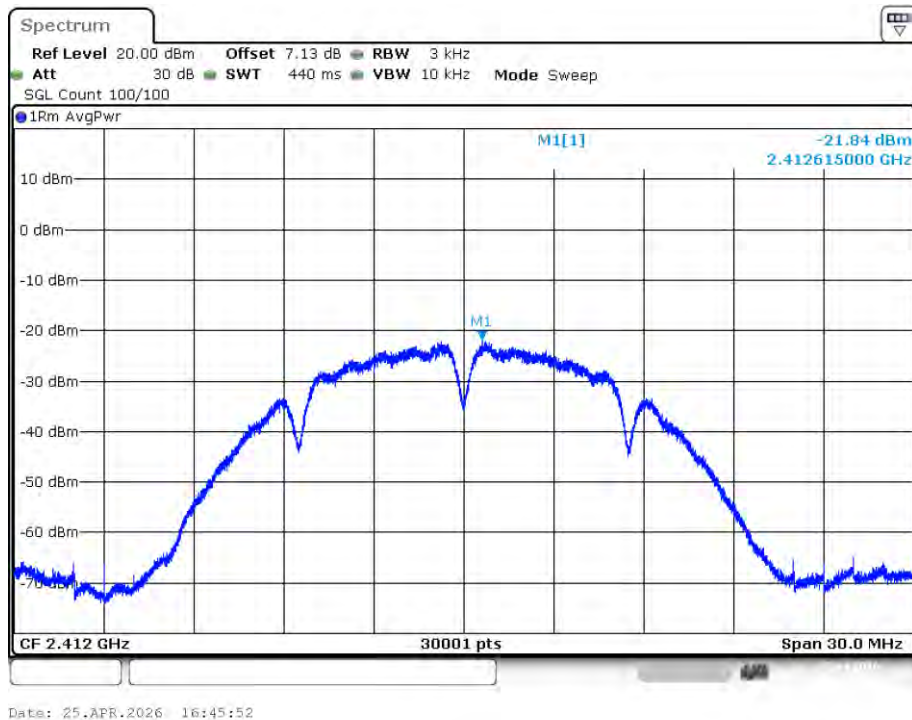


Date: 25.APR.2026 18:02:31

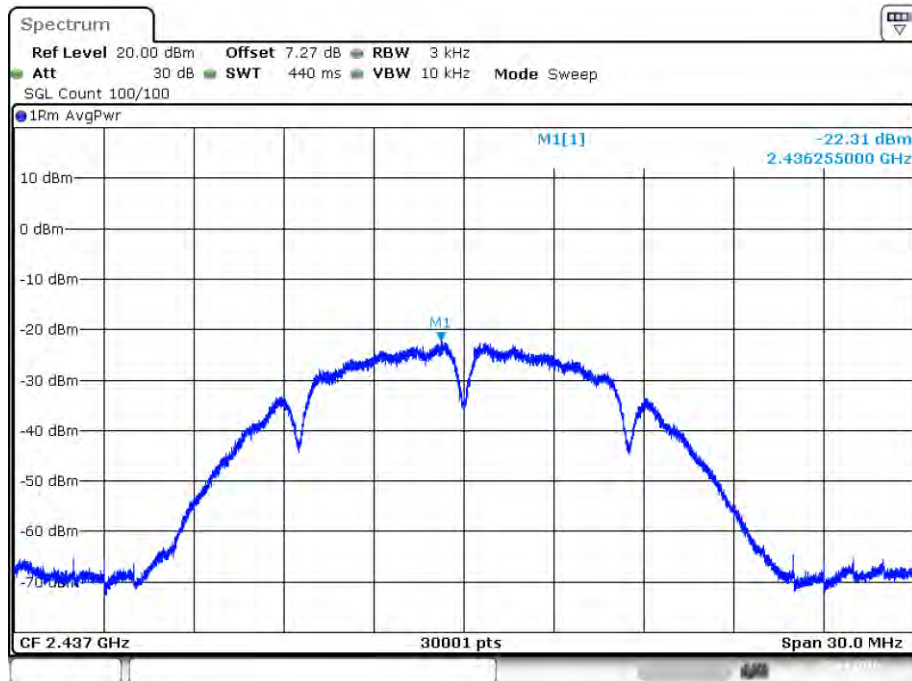
PSD NVNT ax40 2452MHz Ant1



PSD NVNT b 2412MHz Ant1

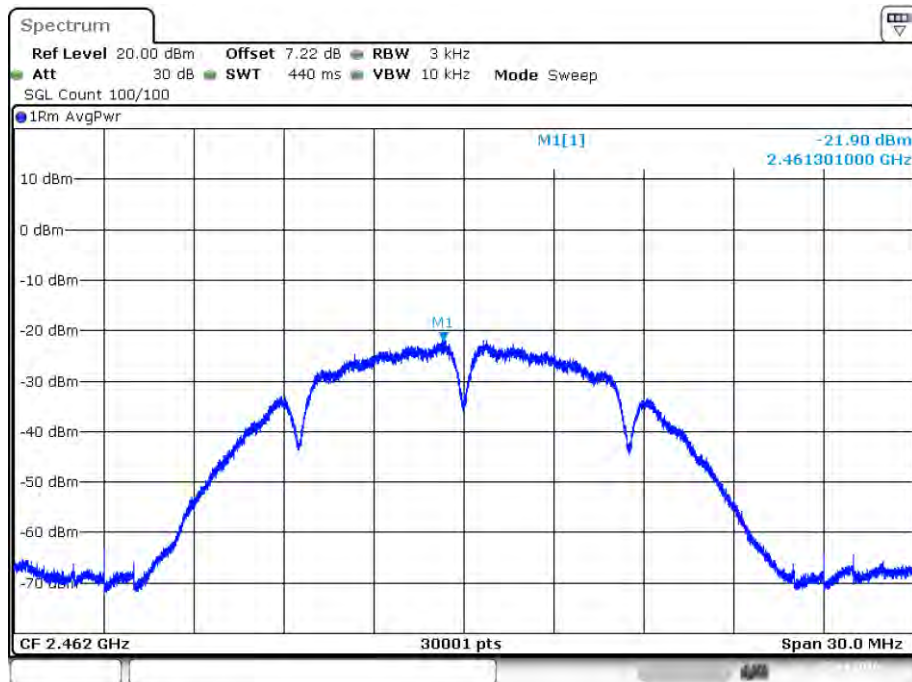


PSD NVNT b 2437MHz Ant1



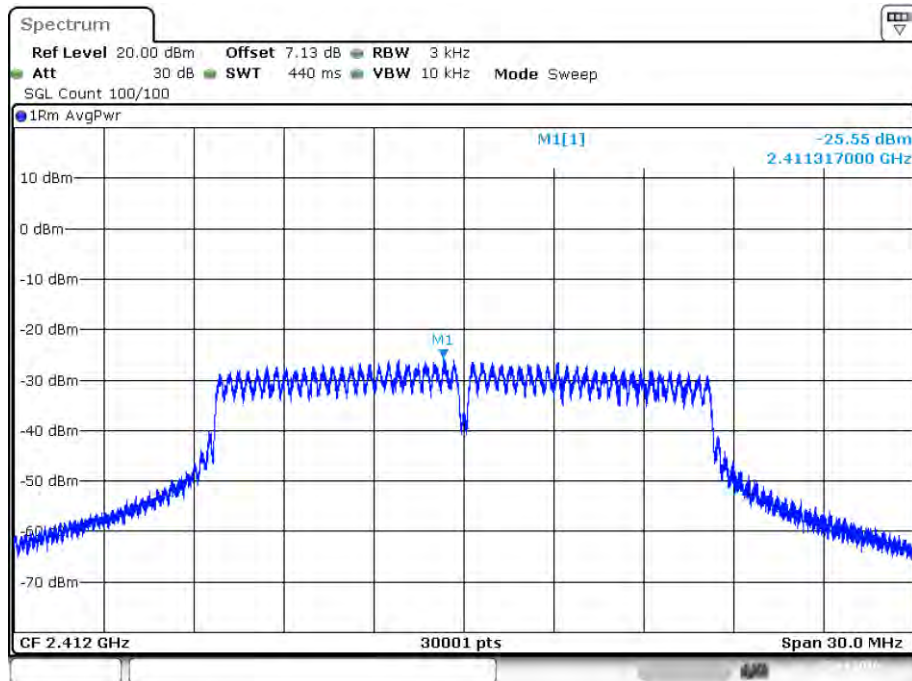
Date: 25.APR.2026 16:50:39

PSD NVNT b 2462MHz Ant1



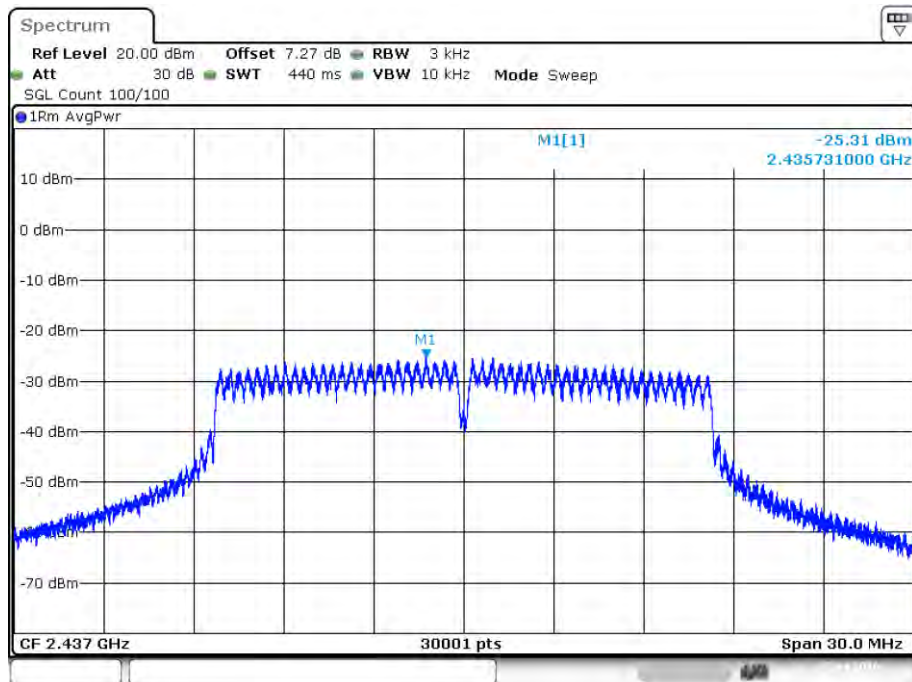
Date: 25.APR.2026 16:55:44

PSD NVNT g 2412MHz Ant1



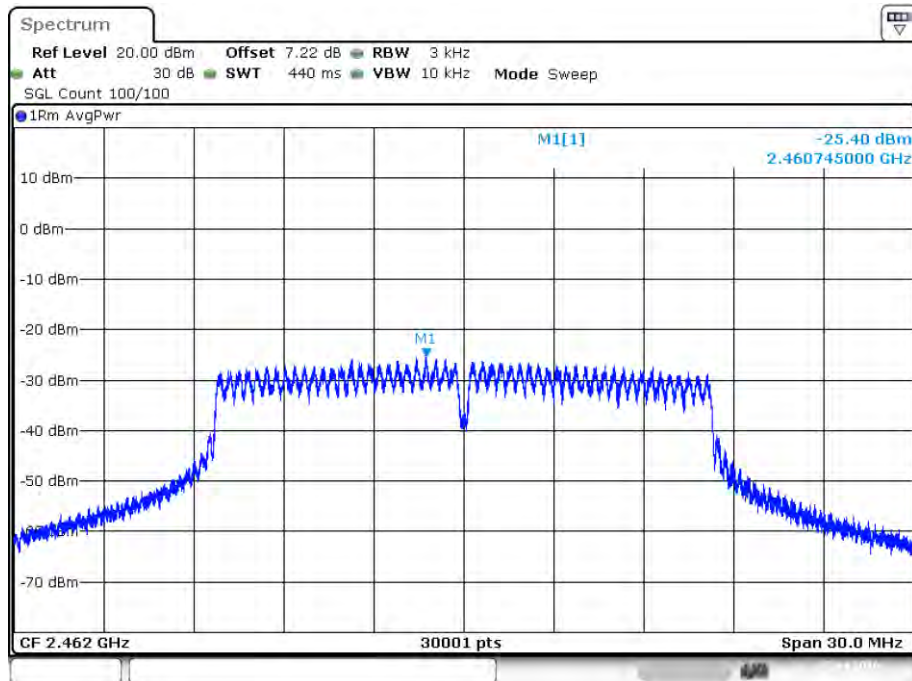
Date: 25.APR.2026 16:59:47

PSD NVNT g 2437MHz Ant1



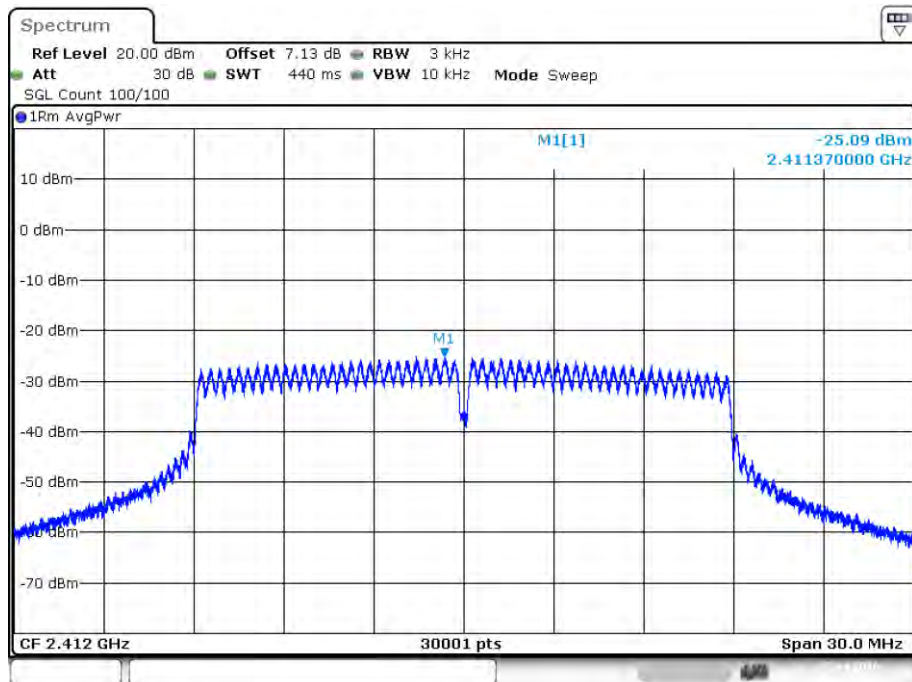
Date: 25.APR.2026 17:04:49

PSD NVNT g 2462MHz Ant1



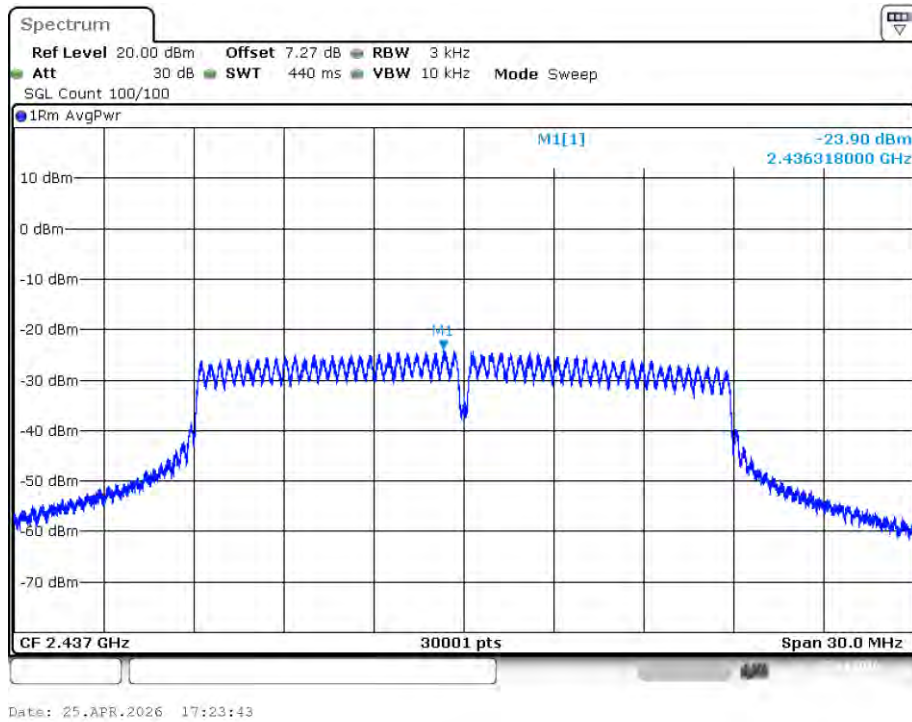
Date: 25.APR.2026 17:09:45

PSD NVNT n20 2412MHz Ant1

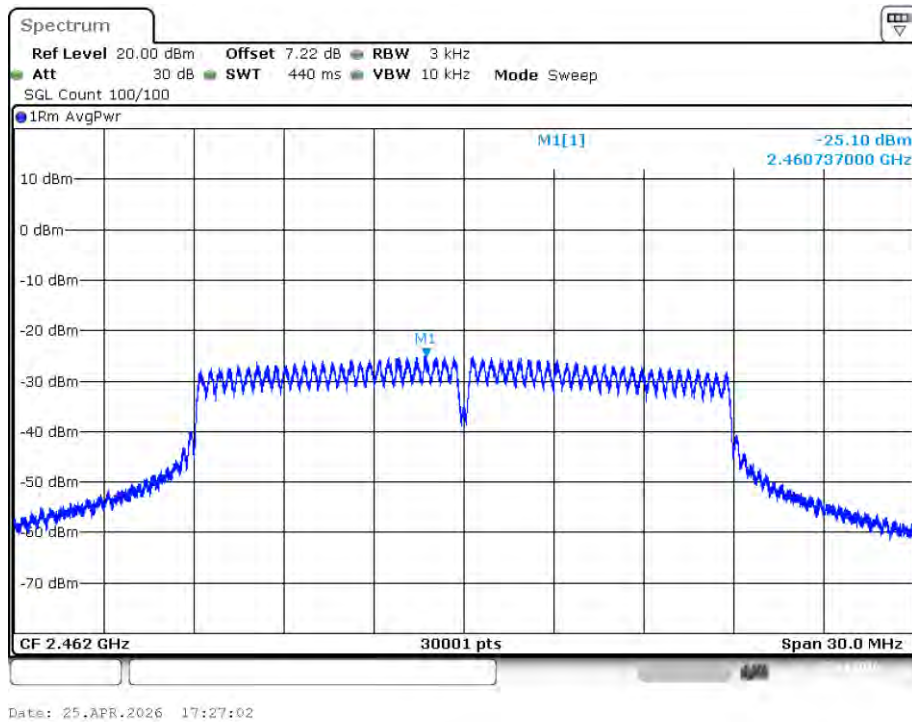


Date: 25.APR.2026 17:19:02

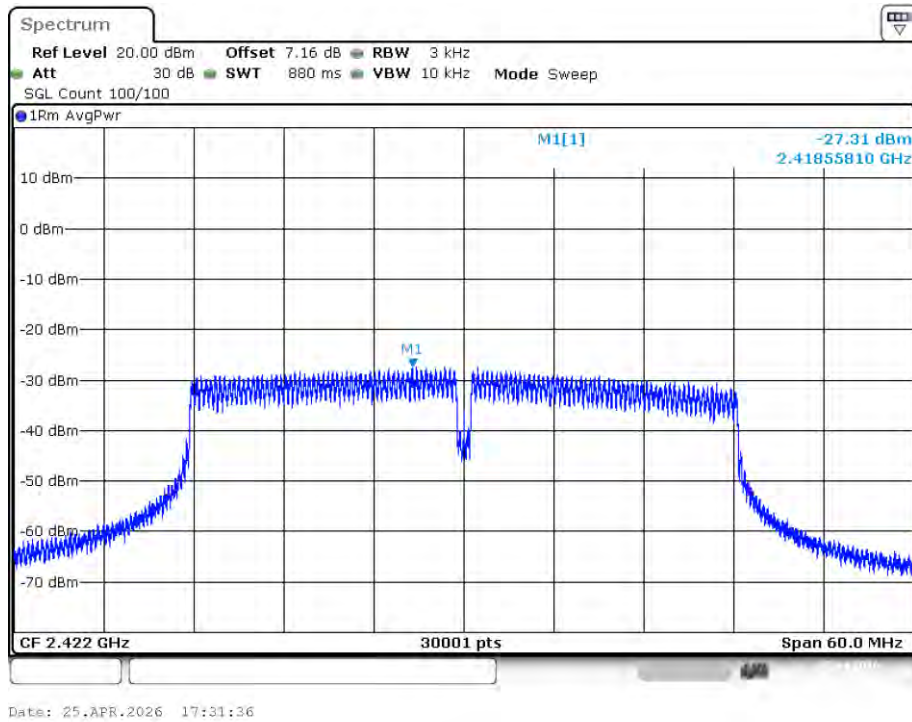
PSD NVNT n20 2437MHz Ant1



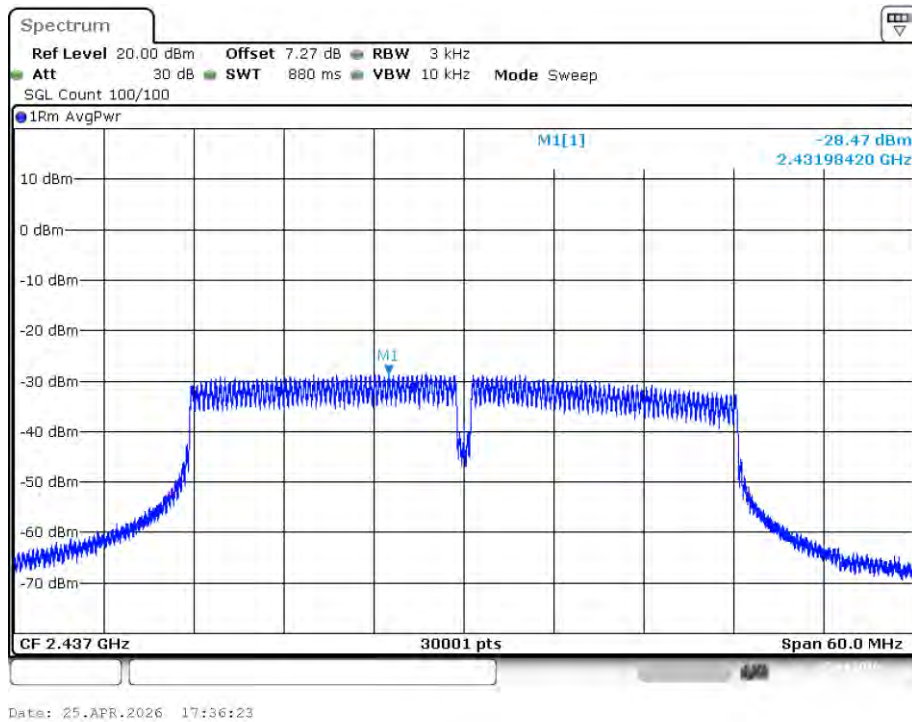
PSD NVNT n20 2462MHz Ant1



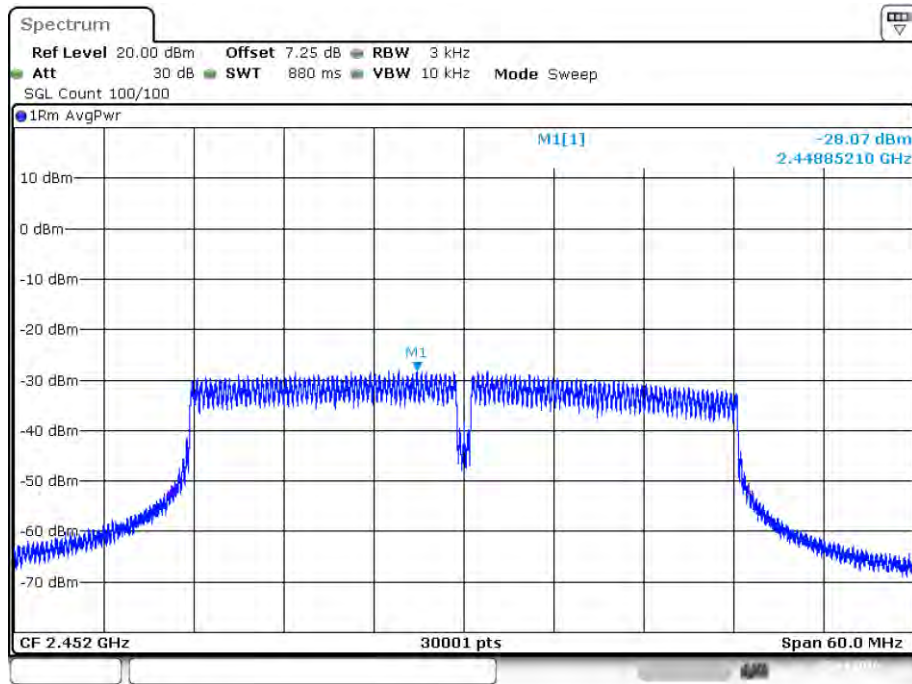
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

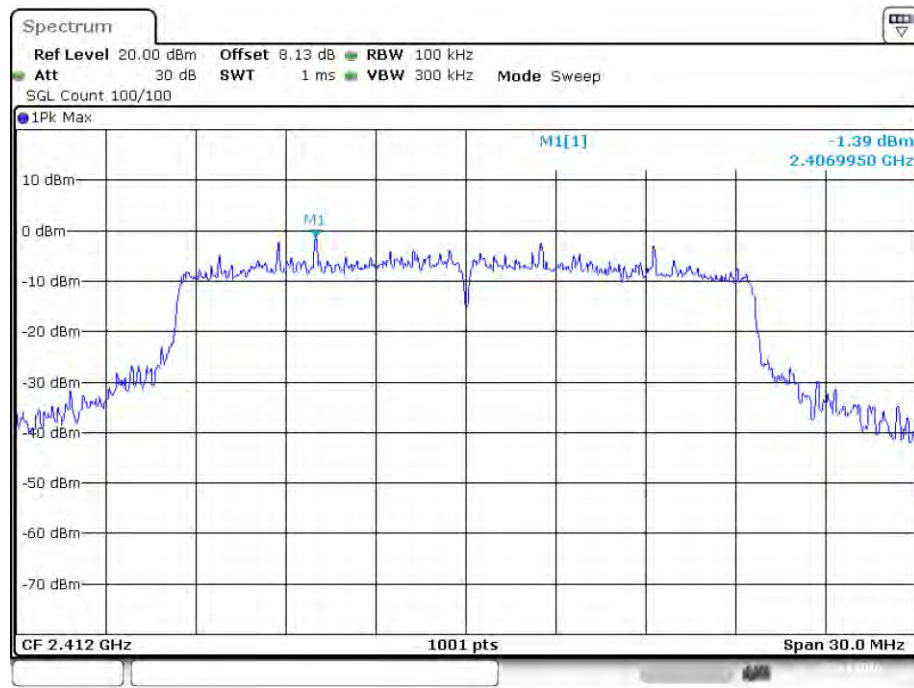


Date: 25.APR.2026 17:41:44

**Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax20	2412	Ant1	-42.41	-30	Pass
NVNT	ax20	2462	Ant1	-39.26	-30	Pass
NVNT	ax40	2422	Ant1	-34.95	-30	Pass
NVNT	ax40	2452	Ant1	-38.26	-30	Pass
NVNT	b	2412	Ant1	-45.94	-30	Pass
NVNT	b	2462	Ant1	-46.03	-30	Pass
NVNT	g	2412	Ant1	-42.1	-30	Pass
NVNT	g	2462	Ant1	-43.08	-30	Pass
NVNT	n20	2412	Ant1	-41.78	-30	Pass
NVNT	n20	2462	Ant1	-40.99	-30	Pass
NVNT	n40	2422	Ant1	-33.88	-30	Pass
NVNT	n40	2452	Ant1	-36.1	-30	Pass

Band Edge NVNT ax20 2412MHz Ant1 Ref

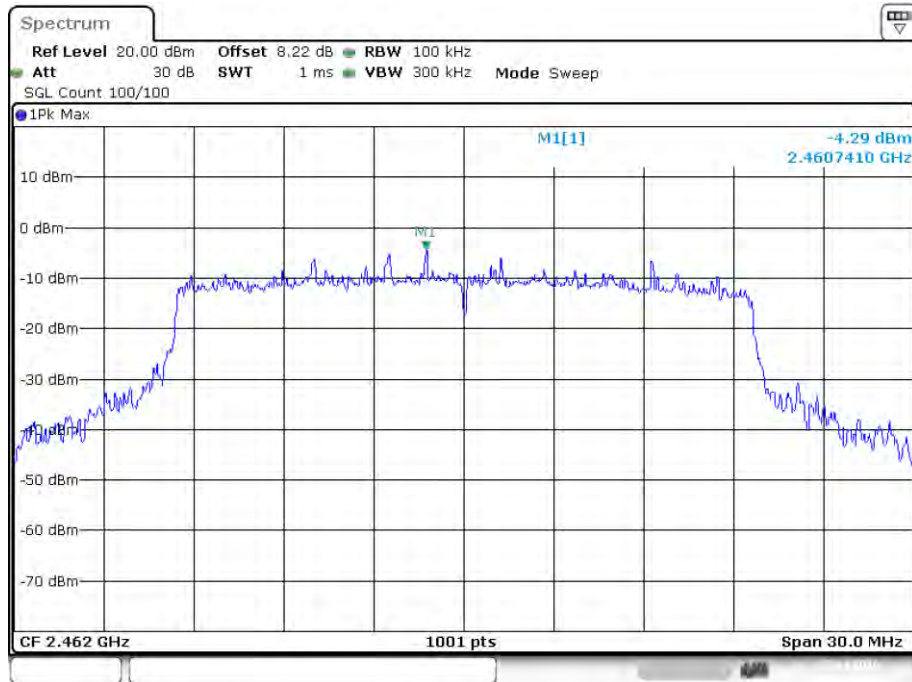


Band Edge NVNT ax20 2412MHz Ant1 Emission



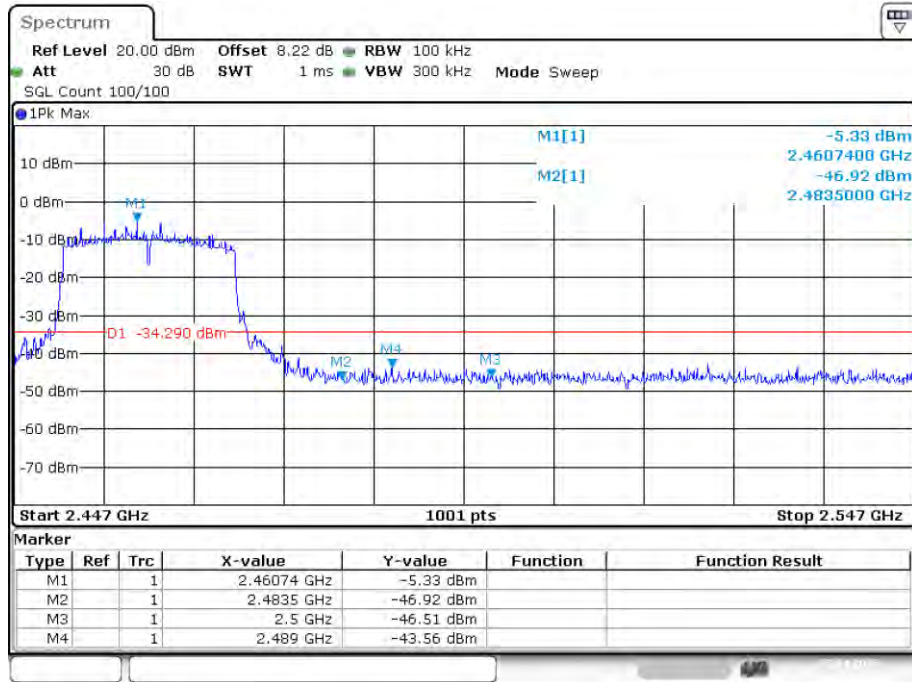
Date: 25.APR.2026 17:45:46

Band Edge NVNT ax20 2462MHz Ant1 Ref



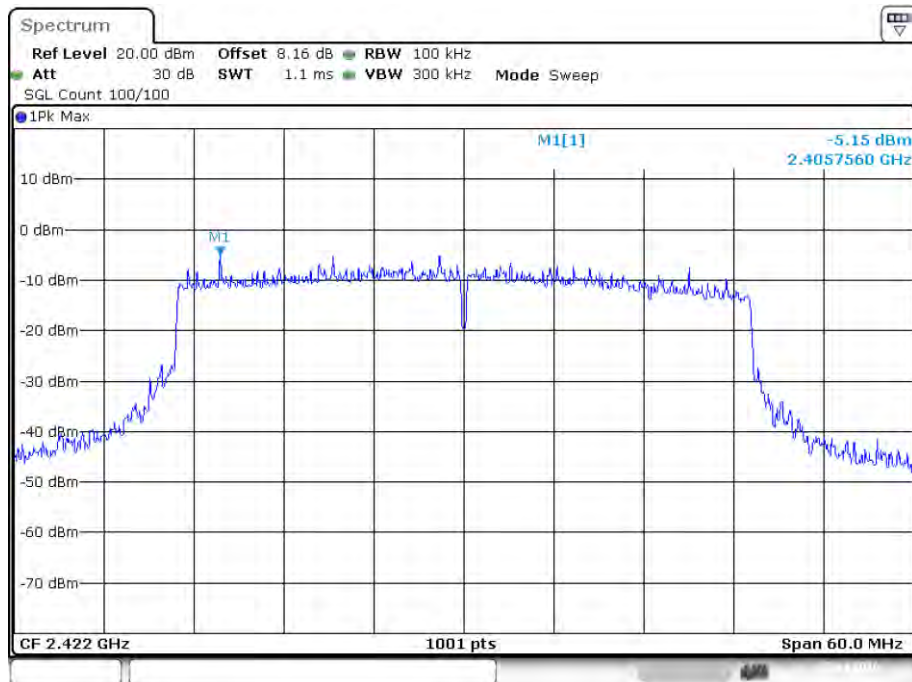
Date: 25.APR.2026 17:54:24

Band Edge NVNT ax20 2462MHz Ant1 Emission



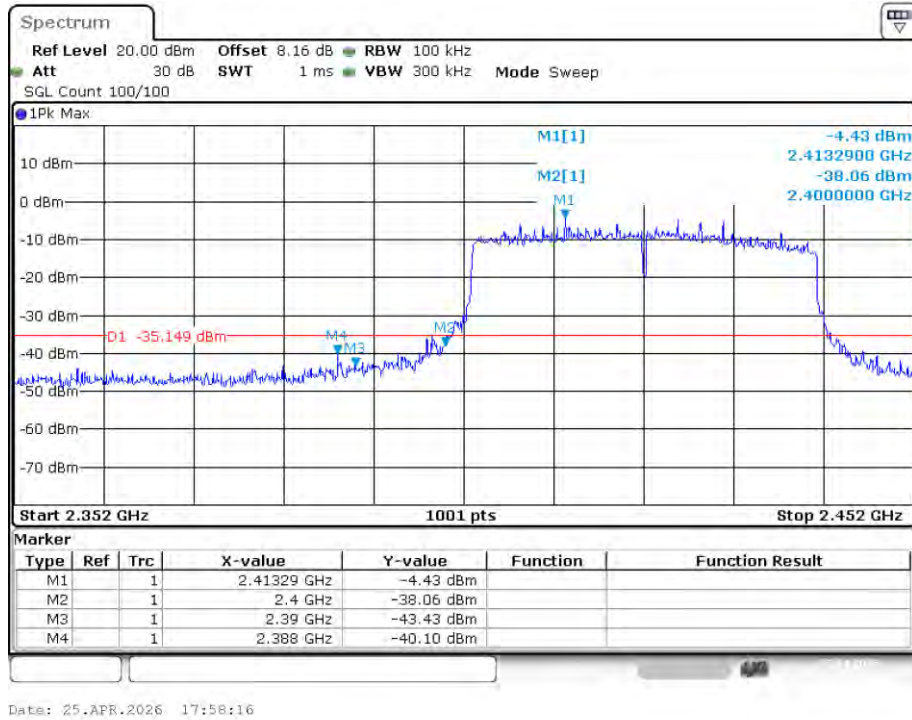
Date: 25.APR.2026 17:54:28

Band Edge NVNT ax40 2422MHz Ant1 Ref

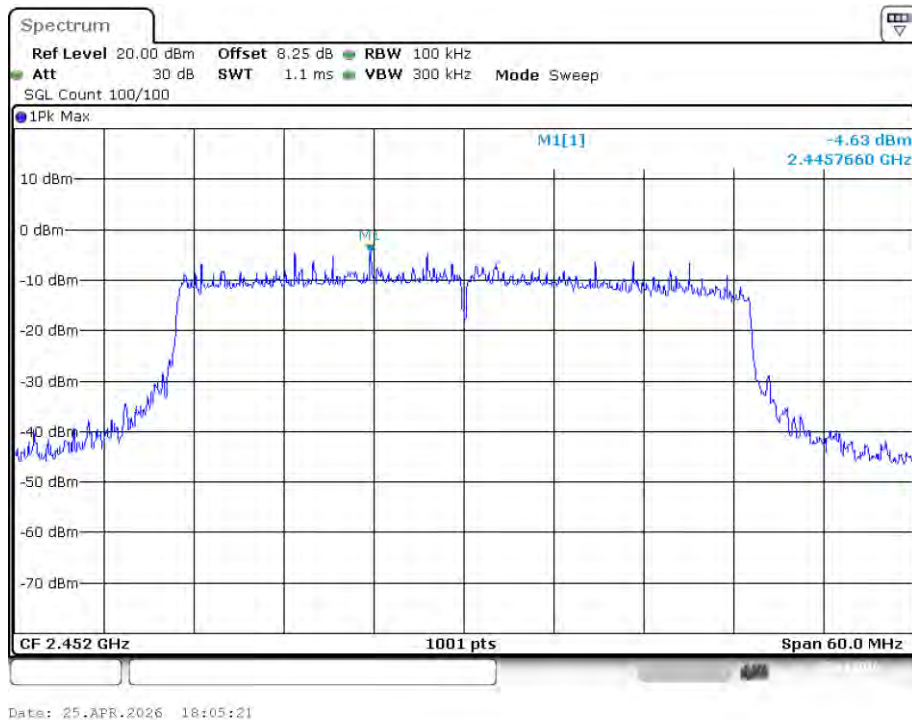


Date: 25.APR.2026 17:56:12

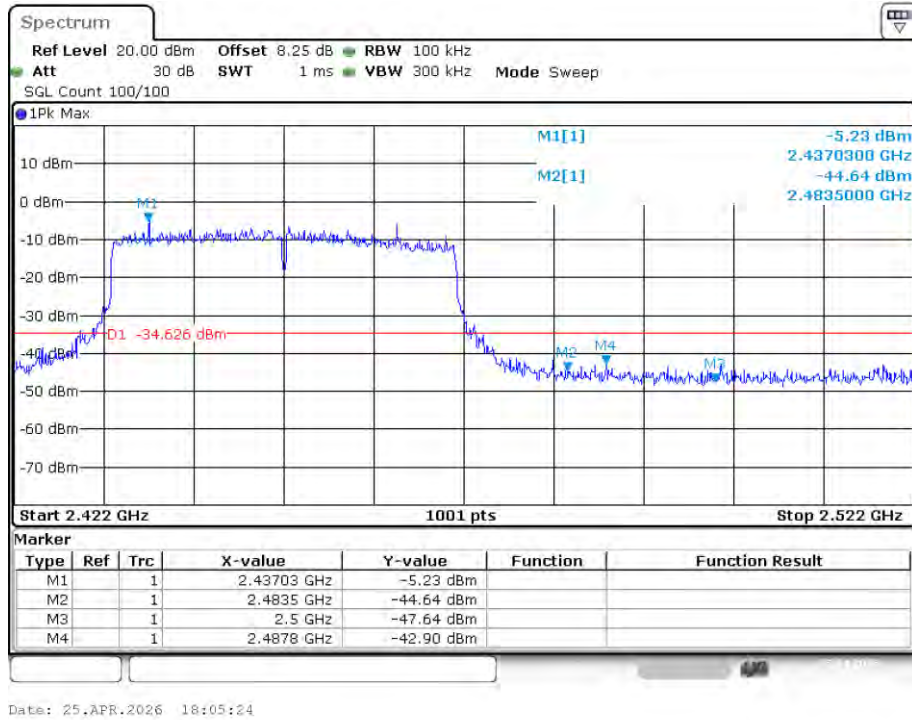
Band Edge NVNT ax40 2422MHz Ant1 Emission



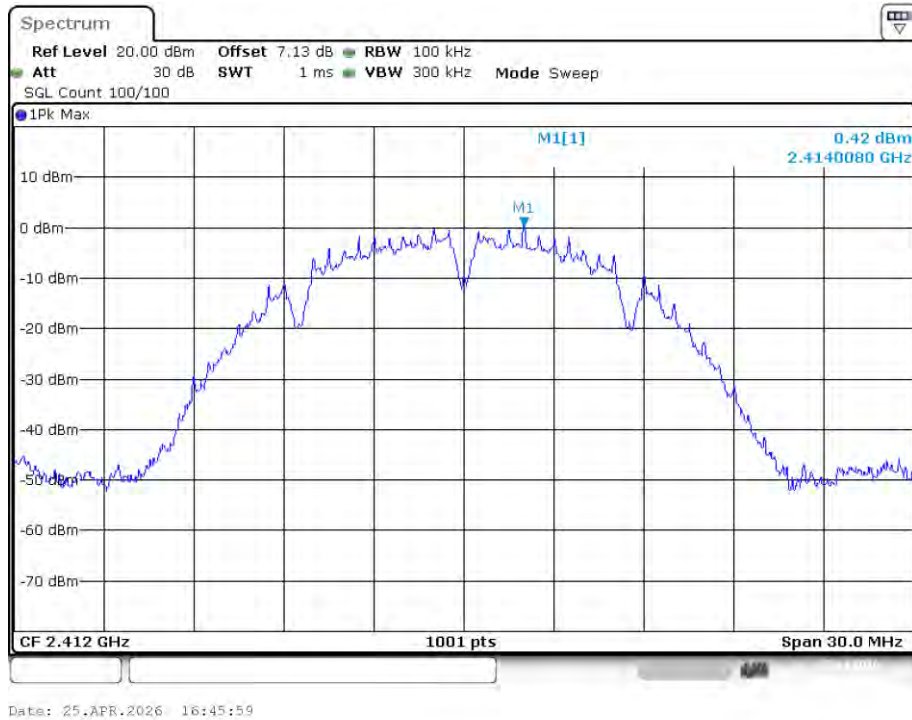
Band Edge NVNT ax40 2452MHz Ant1 Ref



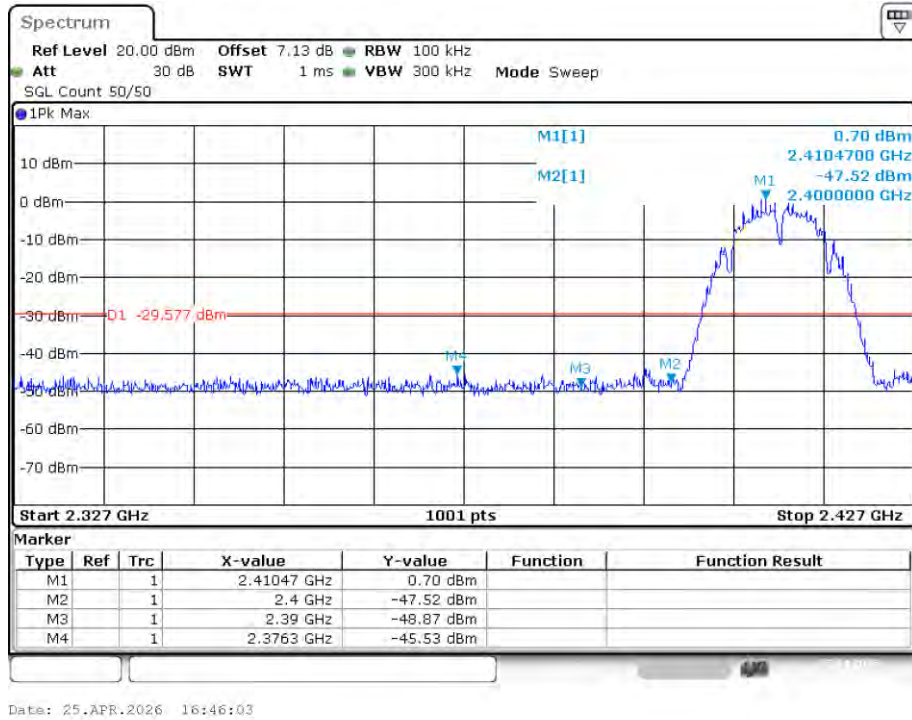
Band Edge NVNT ax40 2452MHz Ant1 Emission



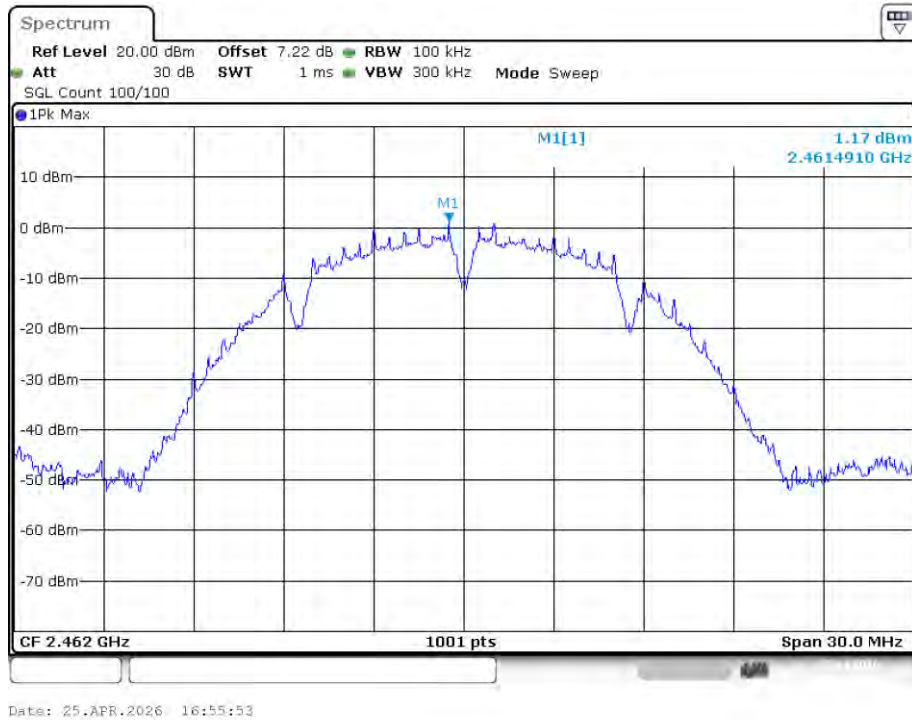
Band Edge NVNT b 2412MHz Ant1 Ref



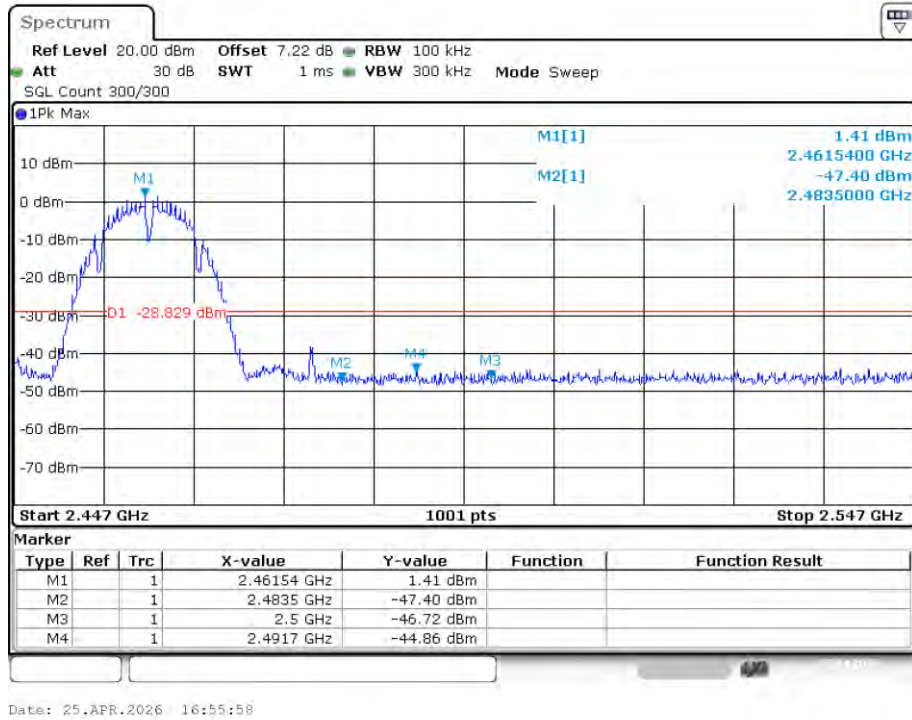
Band Edge NVNT b 2412MHz Ant1 Emission



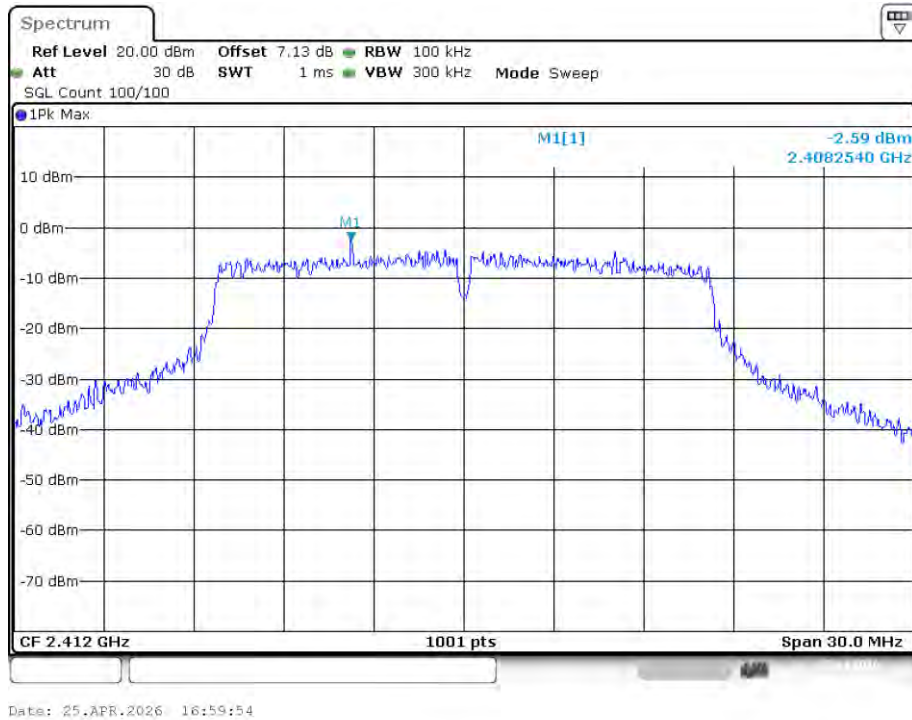
Band Edge NVNT b 2462MHz Ant1 Ref



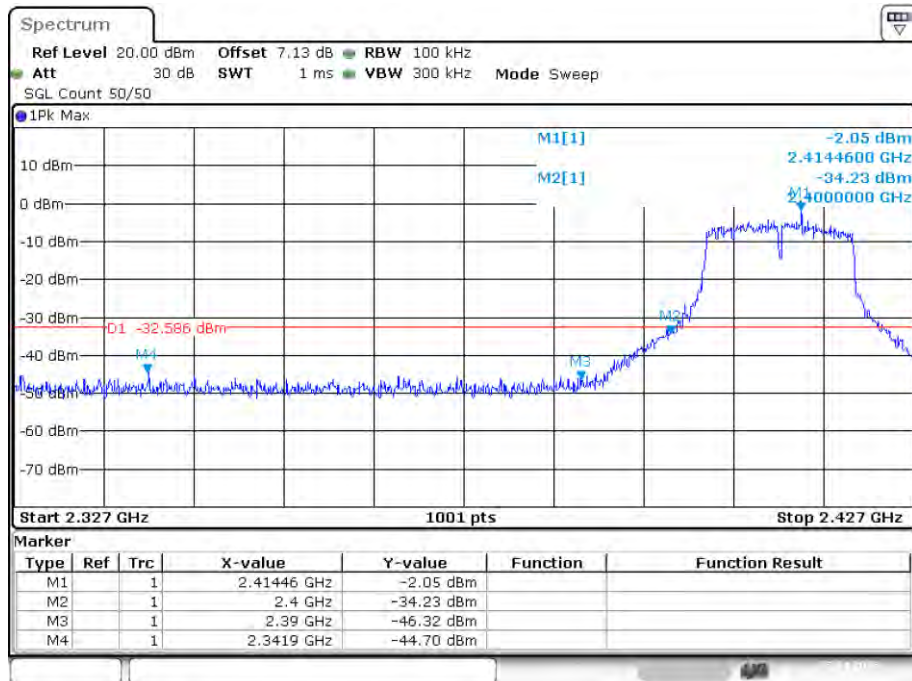
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref

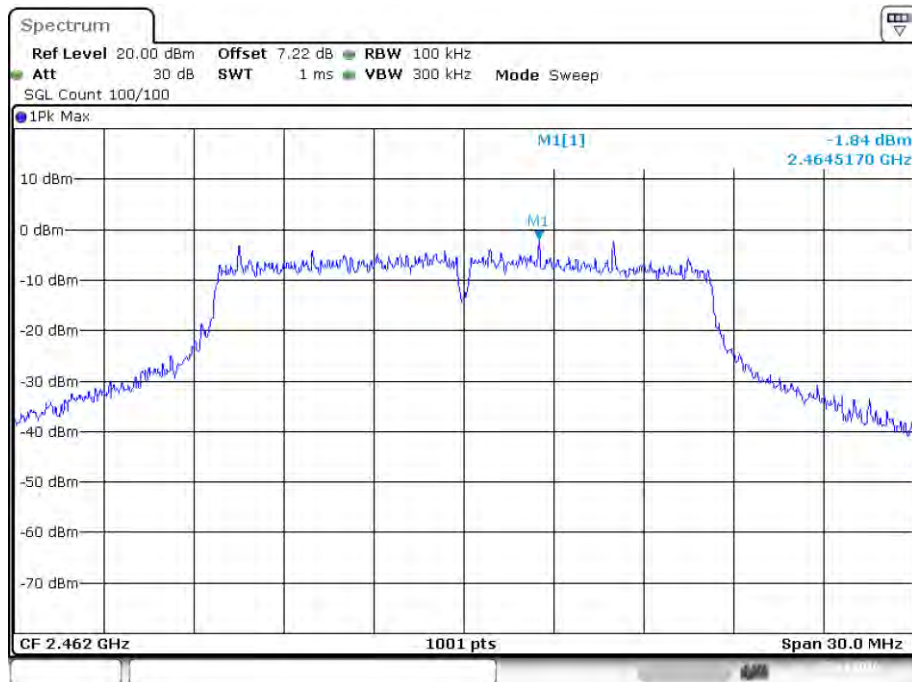


Band Edge NVNT g 2412MHz Ant1 Emission



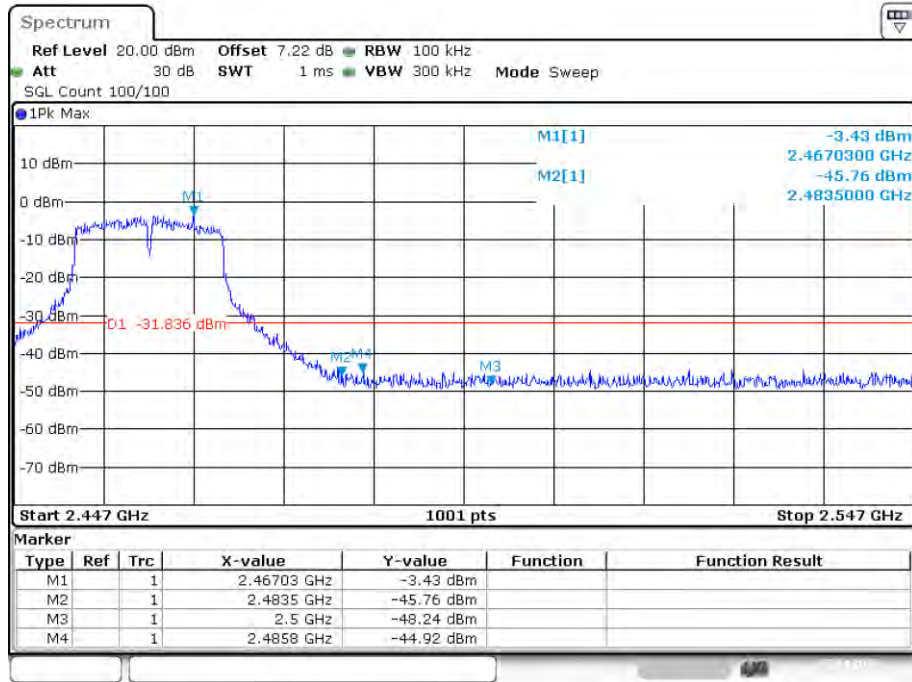
Date: 25.APR.2026 16:59:58

Band Edge NVNT g 2462MHz Ant1 Ref



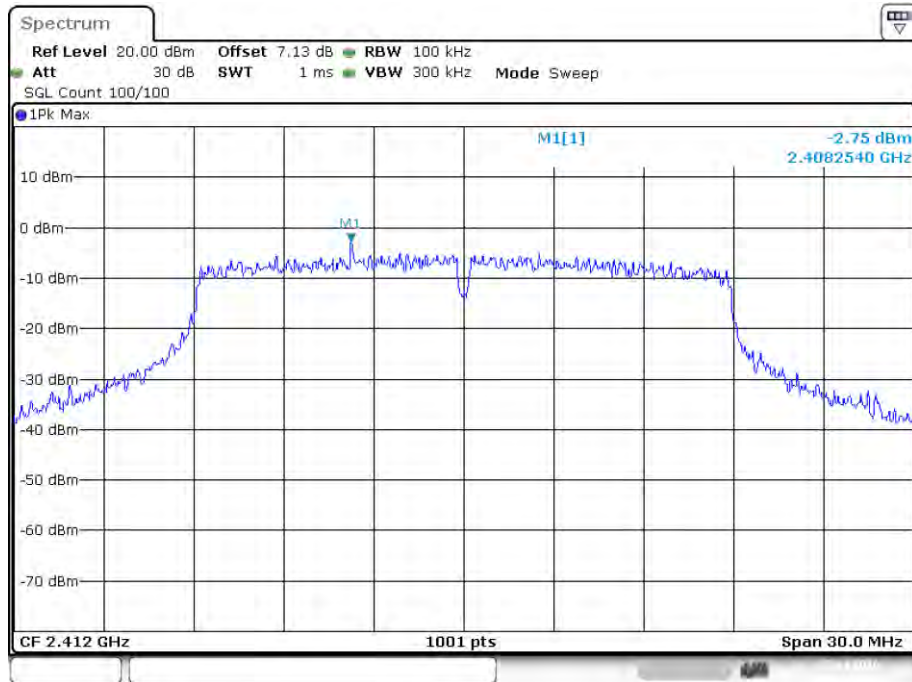
Date: 25.APR.2026 17:09:53

Band Edge NVNT g 2462MHz Ant1 Emission



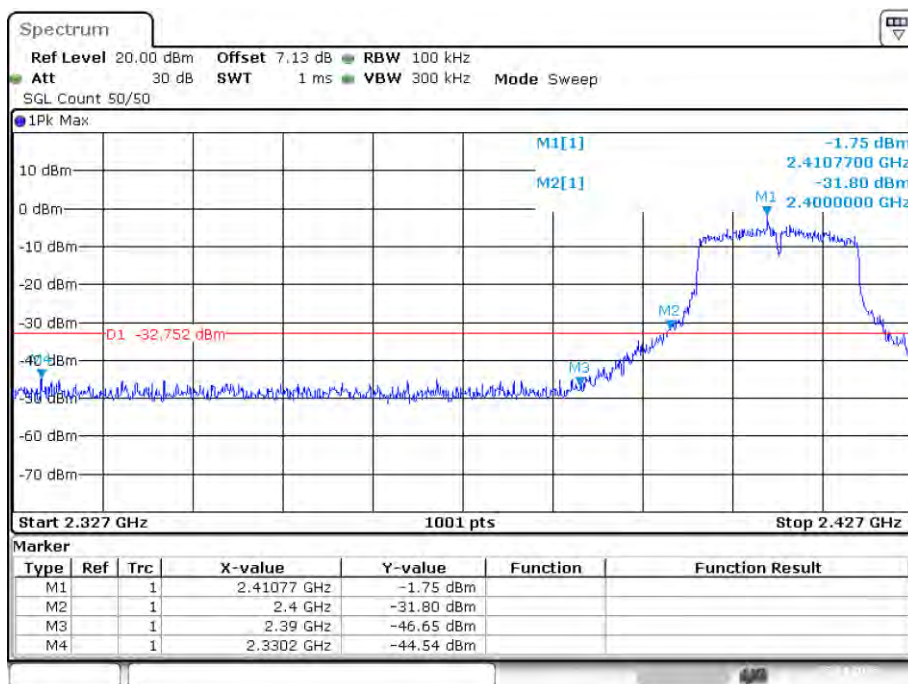
Date: 25.APR.2026 17:09:56

Band Edge NVNT n20 2412MHz Ant1 Ref



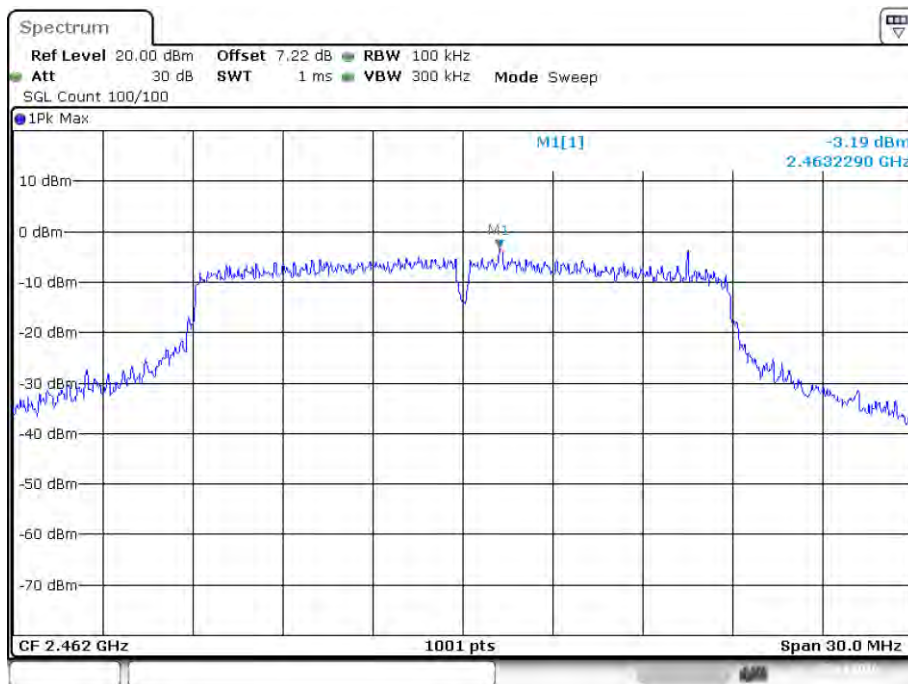
Date: 25.APR.2026 17:19:09

Band Edge NVNT n20 2412MHz Ant1 Emission



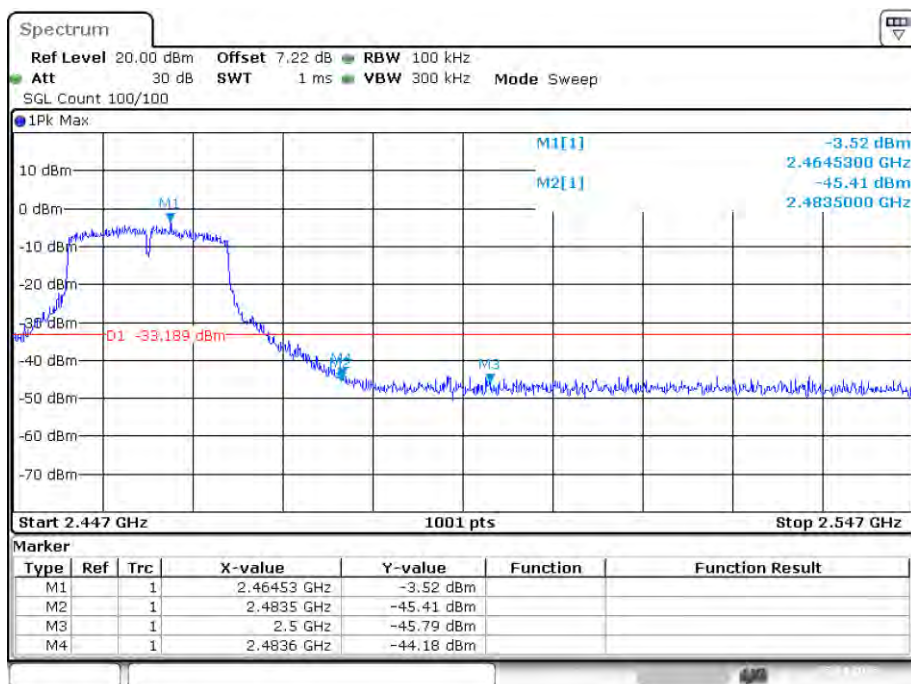
Date: 25.APR.2026 17:19:13

Band Edge NVNT n20 2462MHz Ant1 Ref



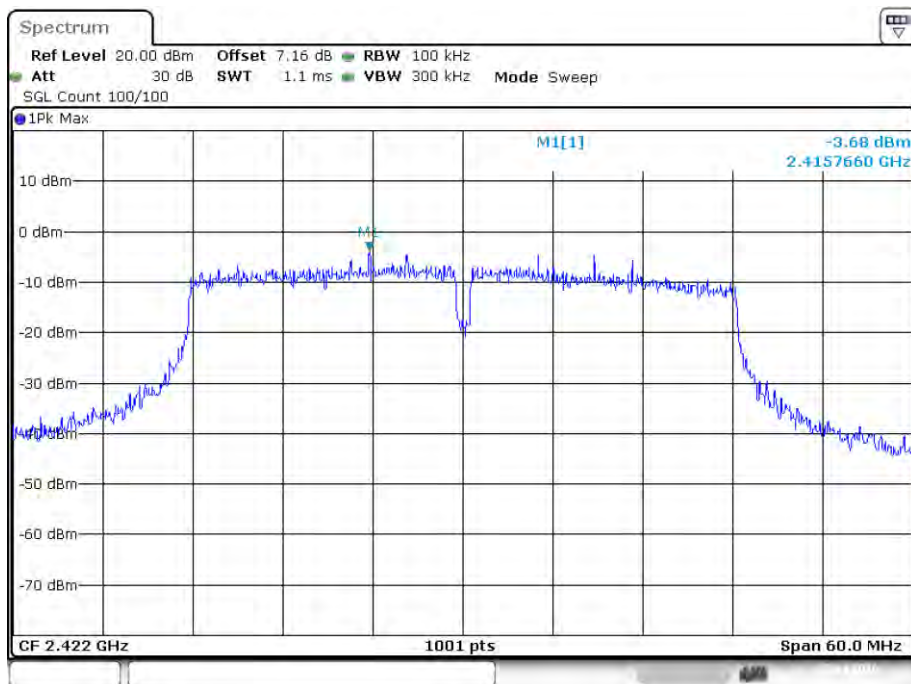
Date: 25.APR.2026 17:27:11

Band Edge NVNT n20 2462MHz Ant1 Emission



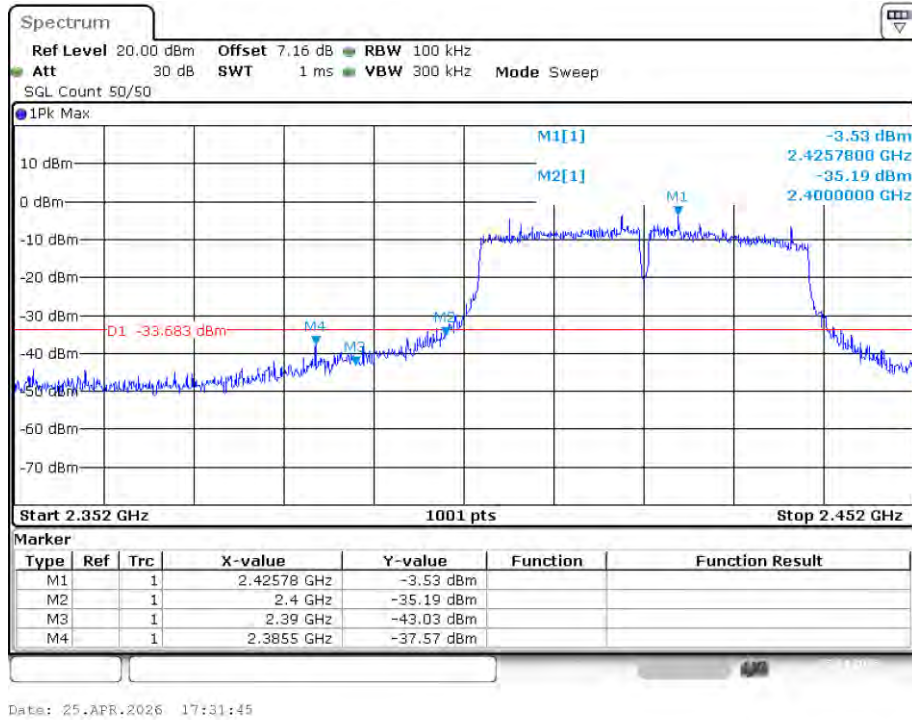
Date: 25.APR.2026 17:27:14

Band Edge NVNT n40 2422MHz Ant1 Ref

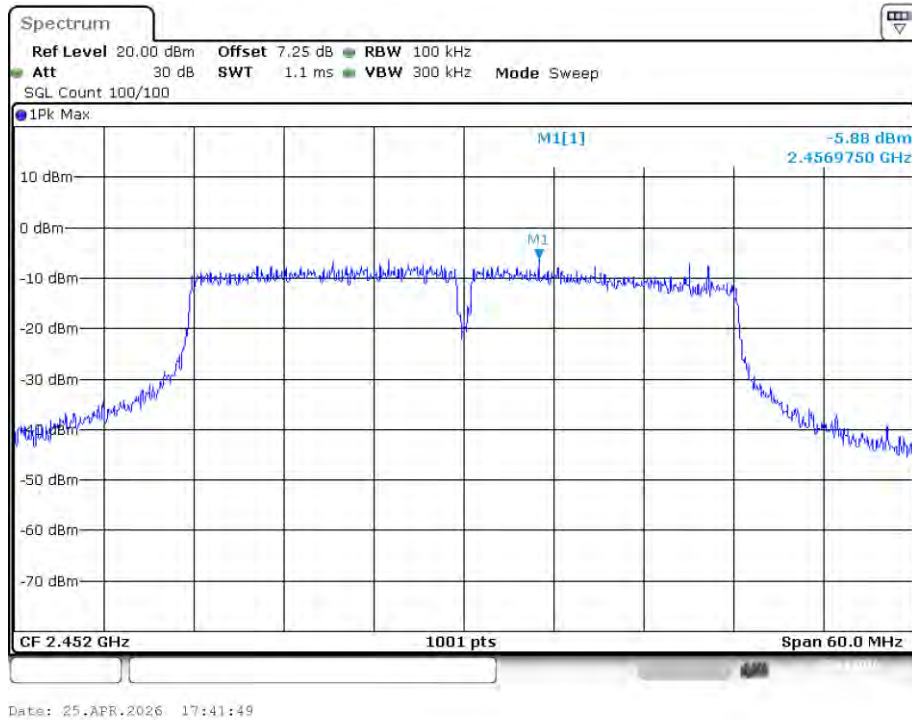


Date: 25.APR.2026 17:31:41

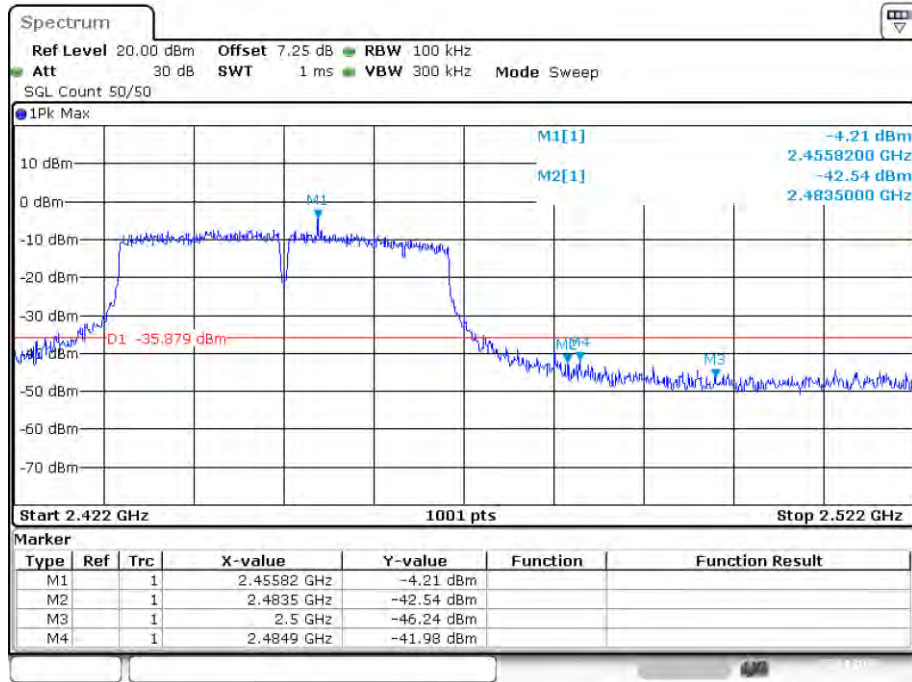
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

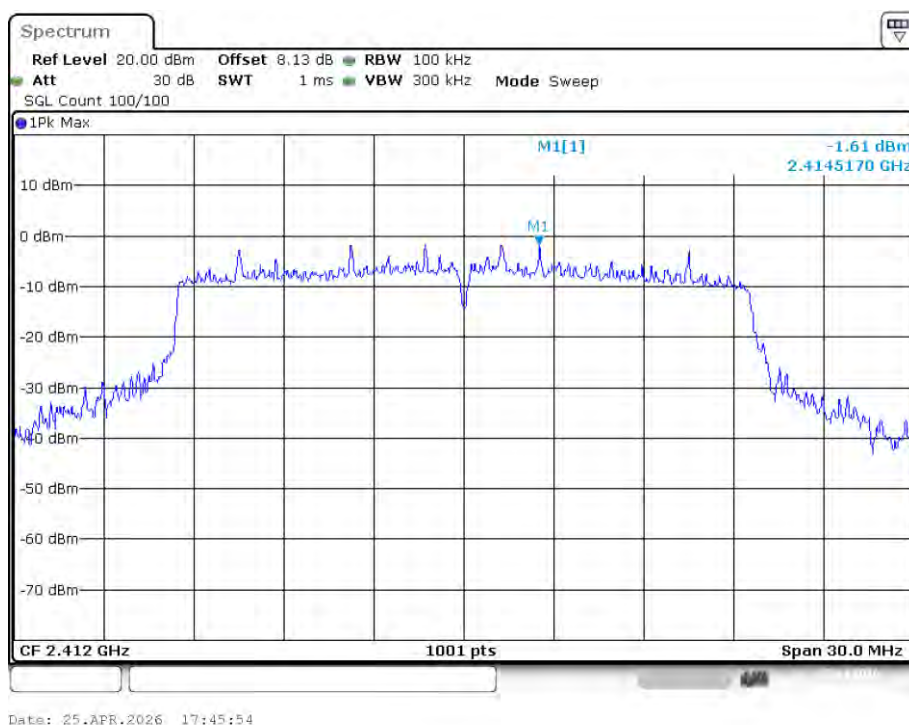


Date: 25.APR.2026 17:41:52

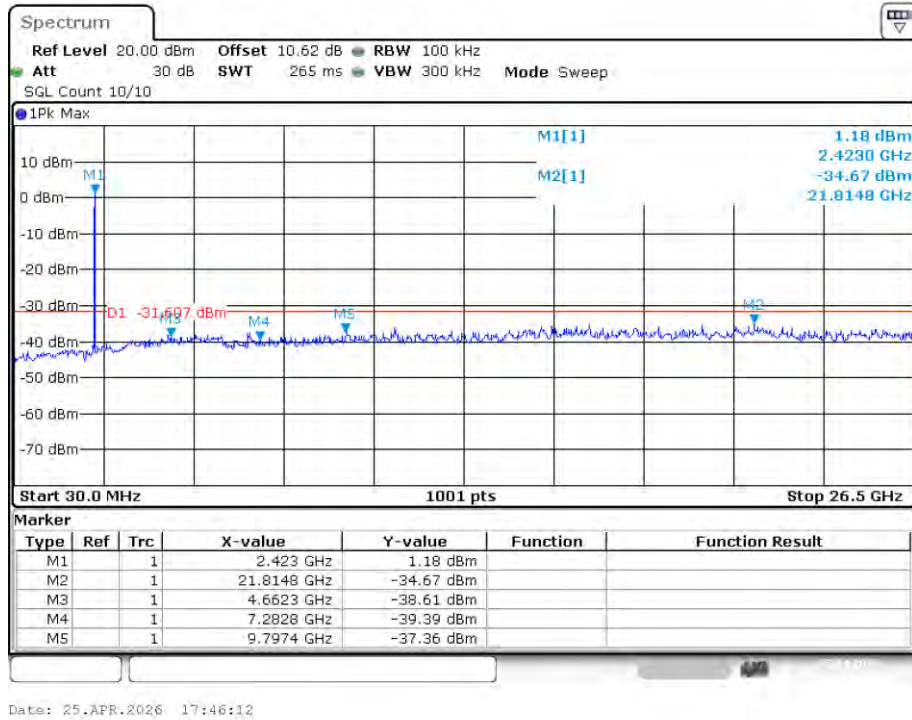
**Conducted RF Spurious Emission**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax20	2412	Ant1	-33.06	-30	Pass
NVNT	ax20	2437	Ant1	-33.16	-30	Pass
NVNT	ax20	2462	Ant1	-34.65	-30	Pass
NVNT	ax40	2422	Ant1	-36.64	-30	Pass
NVNT	ax40	2437	Ant1	-36.54	-30	Pass
NVNT	ax40	2452	Ant1	-35.9	-30	Pass
NVNT	b	2412	Ant1	-35.23	-30	Pass
NVNT	b	2437	Ant1	-37.34	-30	Pass
NVNT	b	2462	Ant1	-37.3	-30	Pass
NVNT	g	2412	Ant1	-33.06	-30	Pass
NVNT	g	2437	Ant1	-34.24	-30	Pass
NVNT	g	2462	Ant1	-32.94	-30	Pass
NVNT	n20	2412	Ant1	-31.85	-30	Pass
NVNT	n20	2437	Ant1	-31.39	-30	Pass
NVNT	n20	2462	Ant1	-31.99	-30	Pass
NVNT	n40	2422	Ant1	-30.14	-30	Pass
NVNT	n40	2437	Ant1	-30.95	-30	Pass
NVNT	n40	2452	Ant1	-31.12	-30	Pass

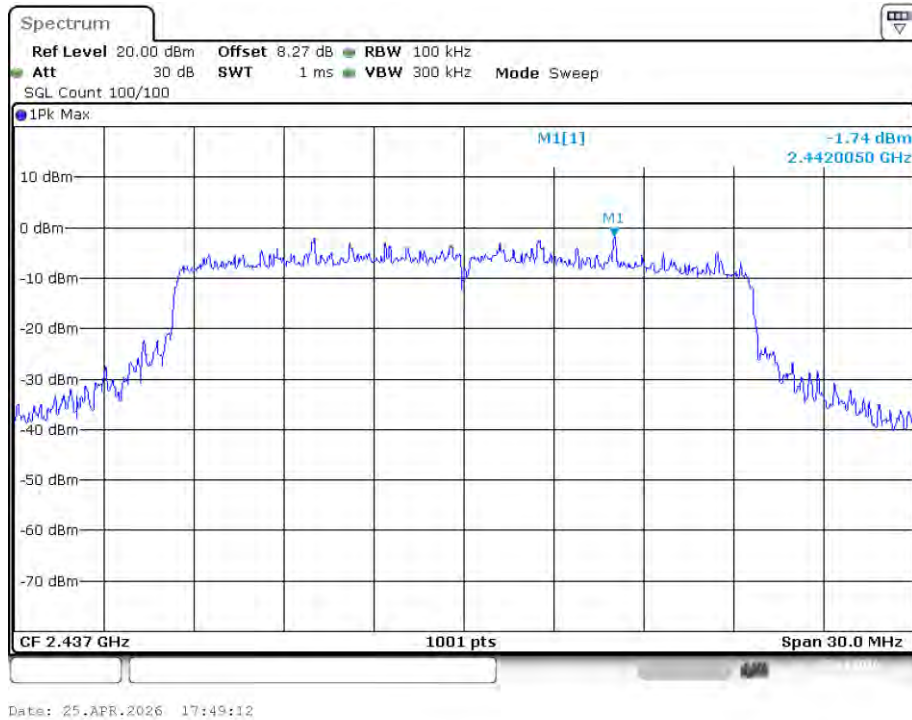
Tx. Spurious NVNT ax20 2412MHz Ant1 Ref



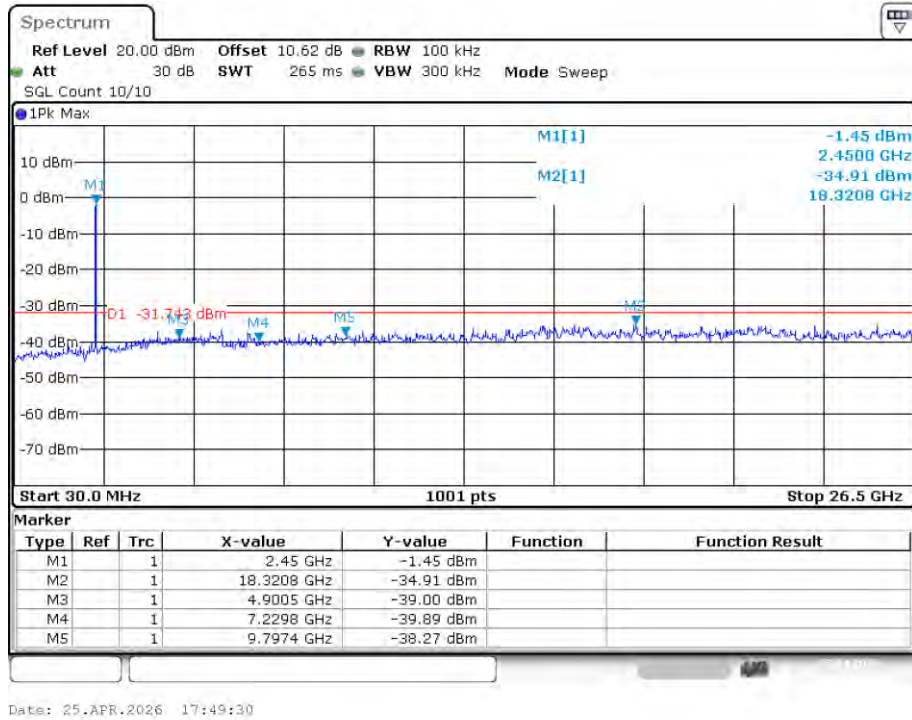
Tx. Spurious NVNT ax20 2412MHz Ant1 Emission



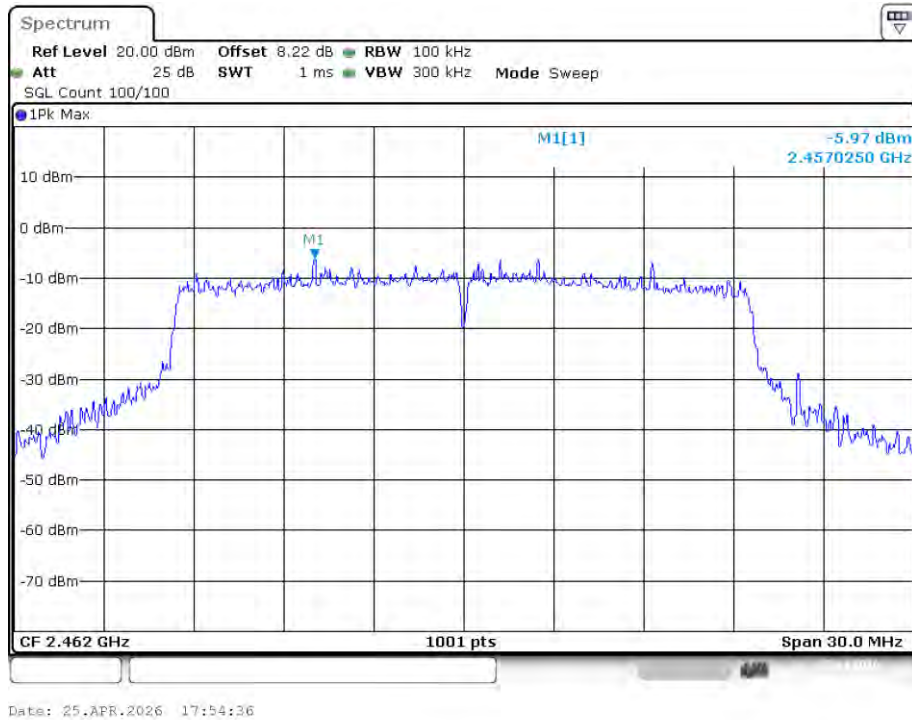
Tx. Spurious NVNT ax20 2437MHz Ant1 Ref



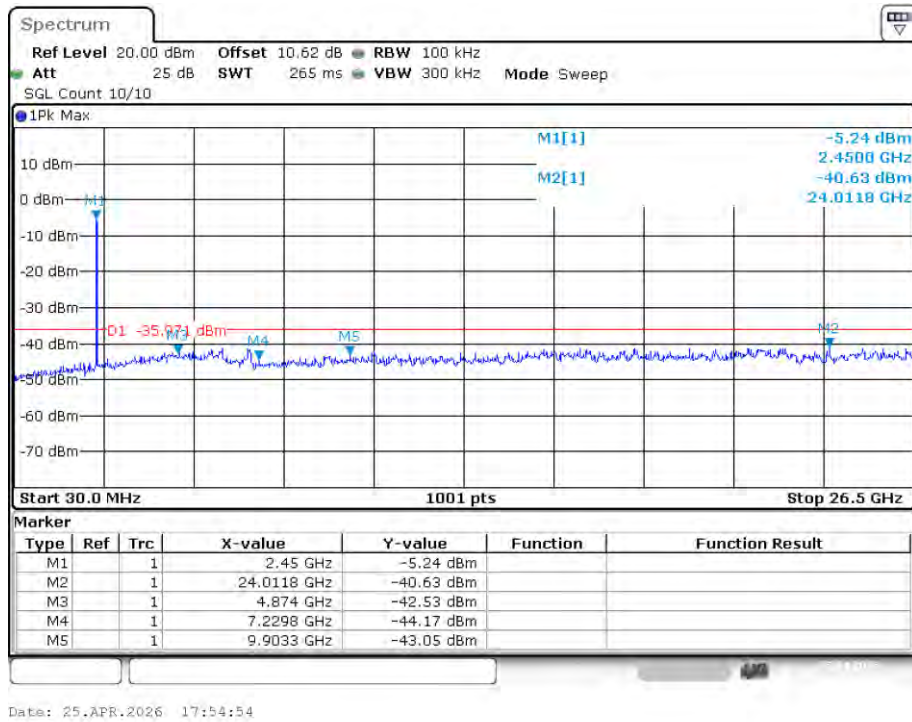
Tx. Spurious NVNT ax20 2437MHz Ant1 Emission



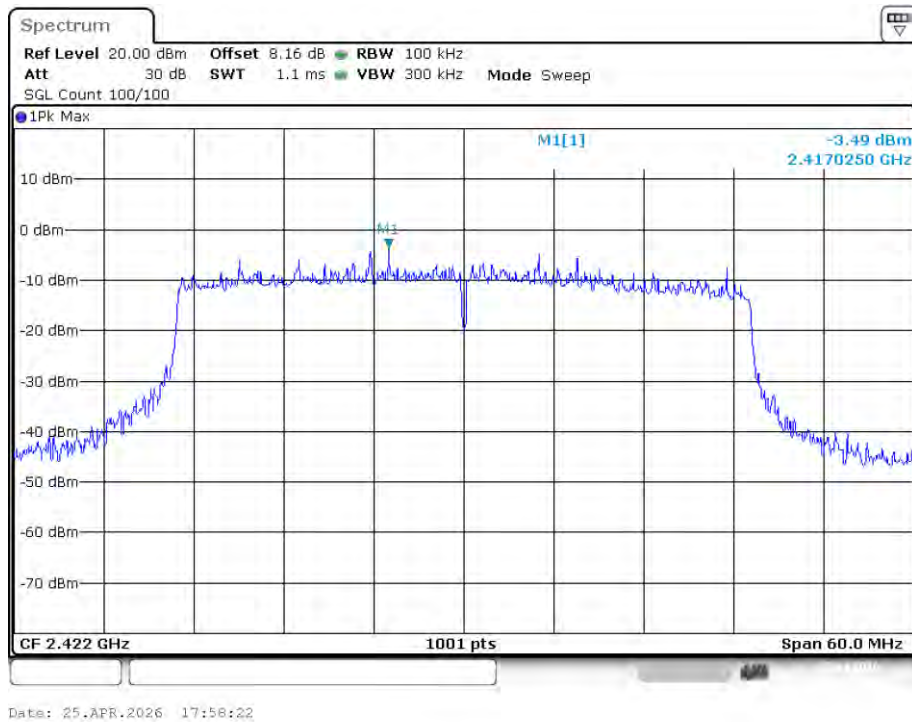
Tx. Spurious NVNT ax20 2462MHz Ant1 Ref



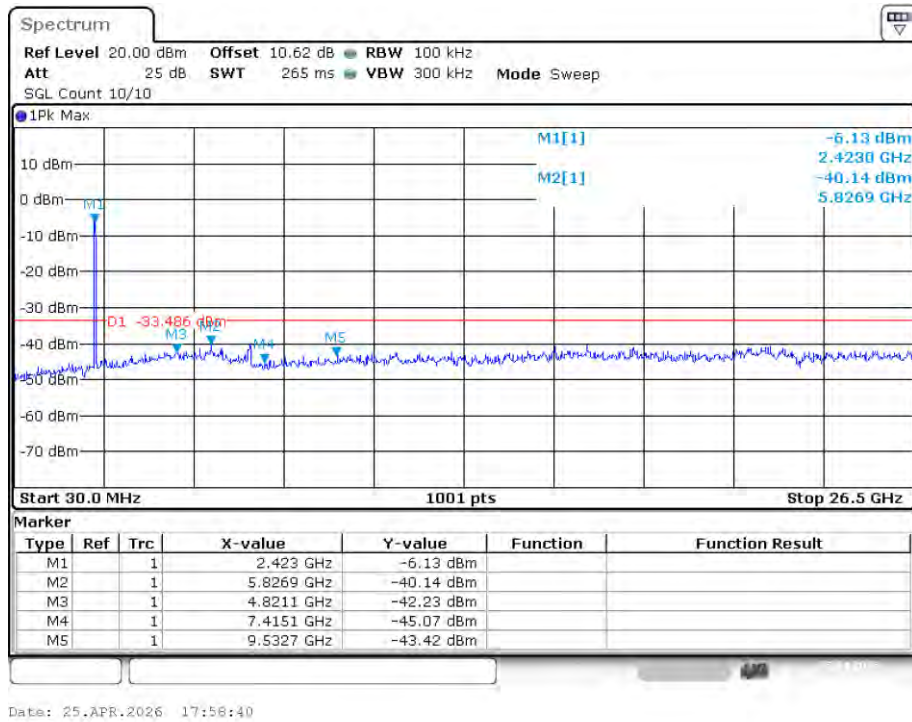
Tx. Spurious NVNT ax20 2462MHz Ant1 Emission



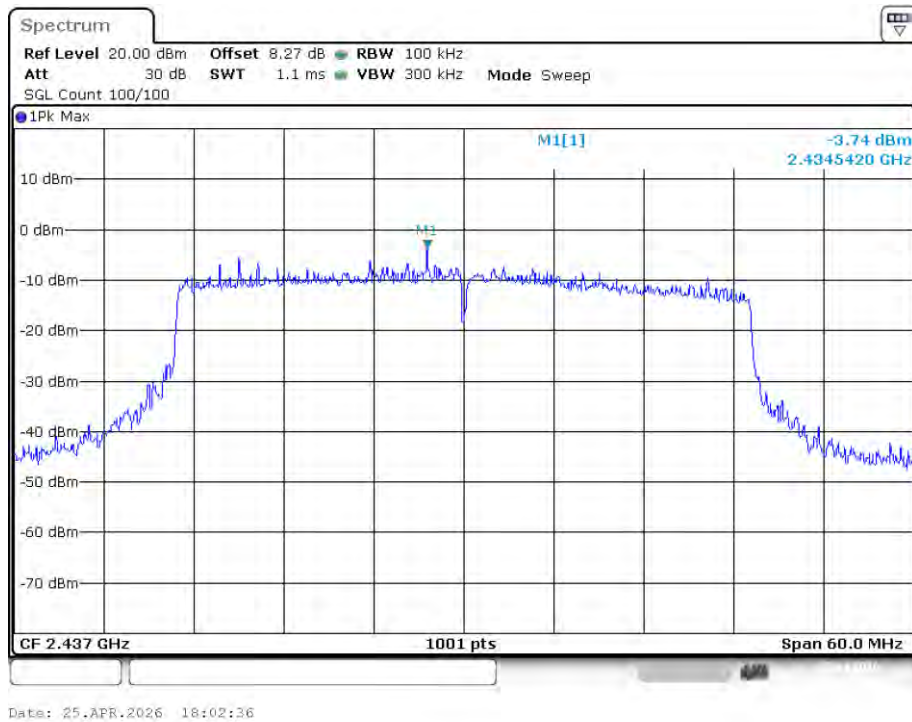
Tx. Spurious NVNT ax40 2422MHz Ant1 Ref



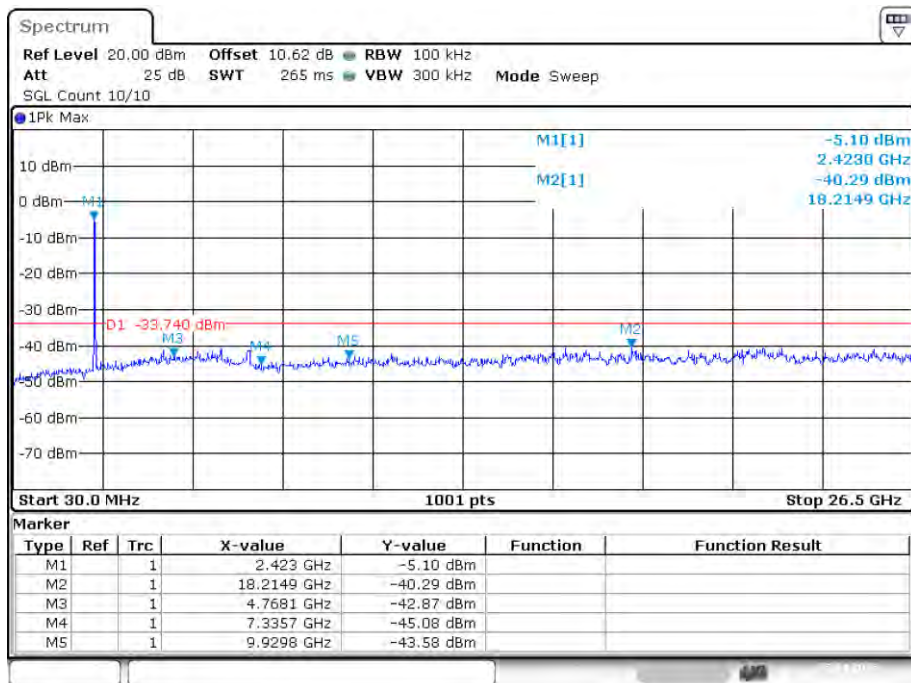
Tx. Spurious NVNT ax40 2422MHz Ant1 Emission



Tx. Spurious NVNT ax40 2437MHz Ant1 Ref

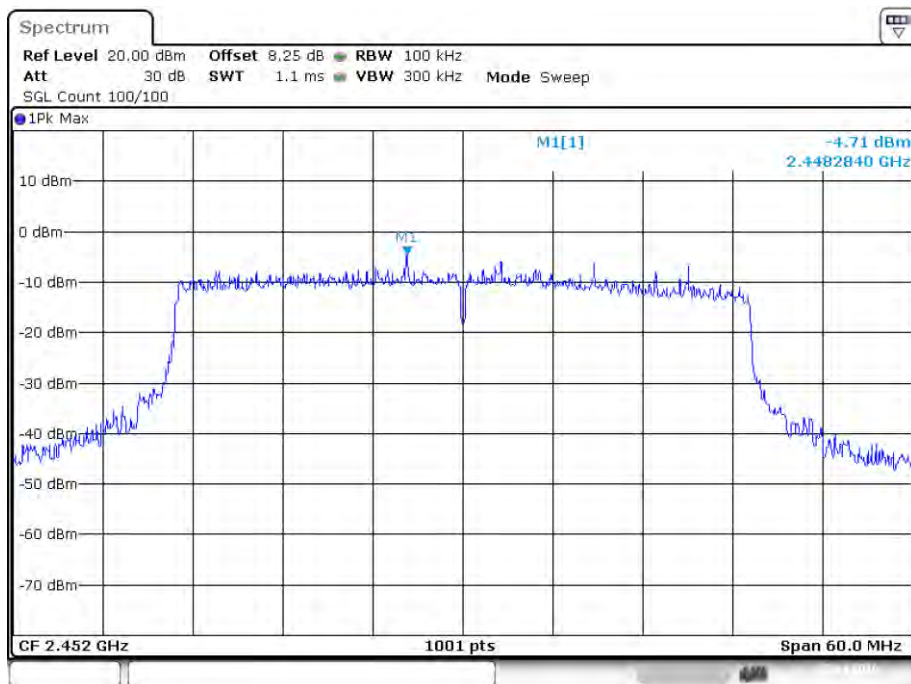


Tx. Spurious NVNT ax40 2437MHz Ant1 Emission



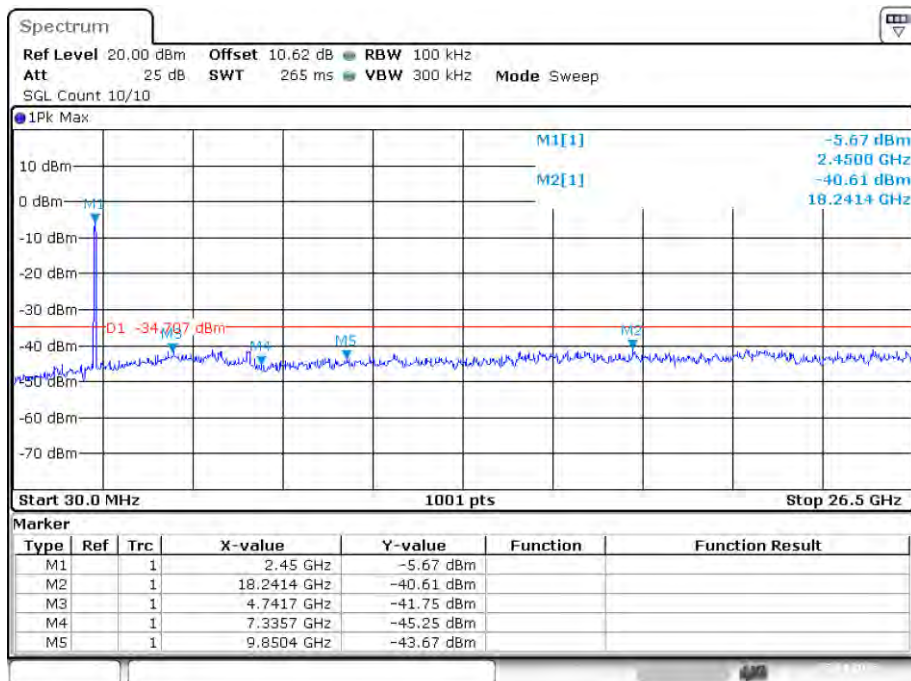
Date: 25.APR.2026 18:02:54

Tx. Spurious NVNT ax40 2452MHz Ant1 Ref



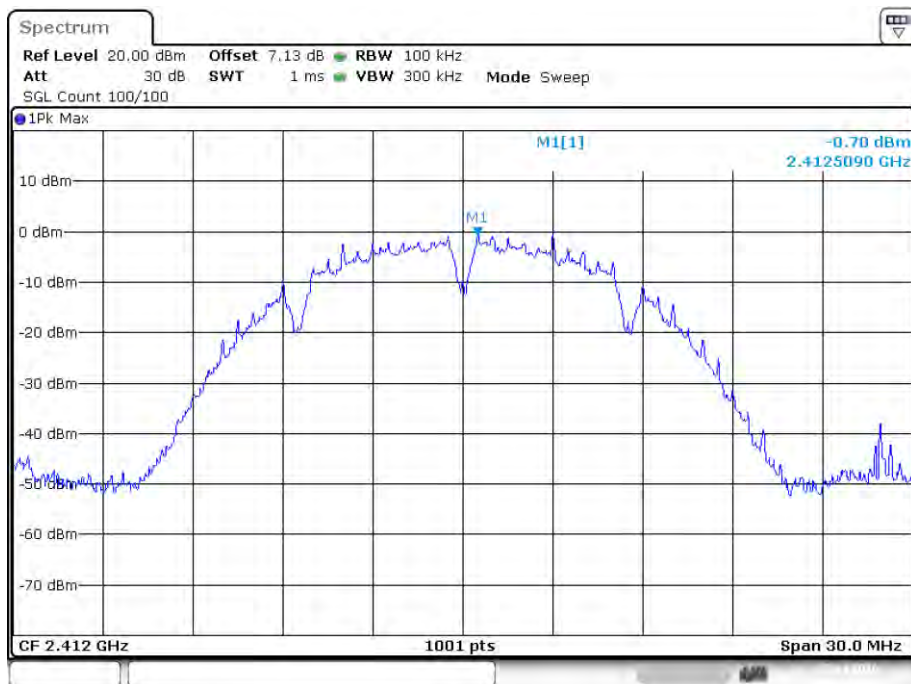
Date: 25.APR.2026 18:05:30

Tx. Spurious NVNT ax40 2452MHz Ant1 Emission



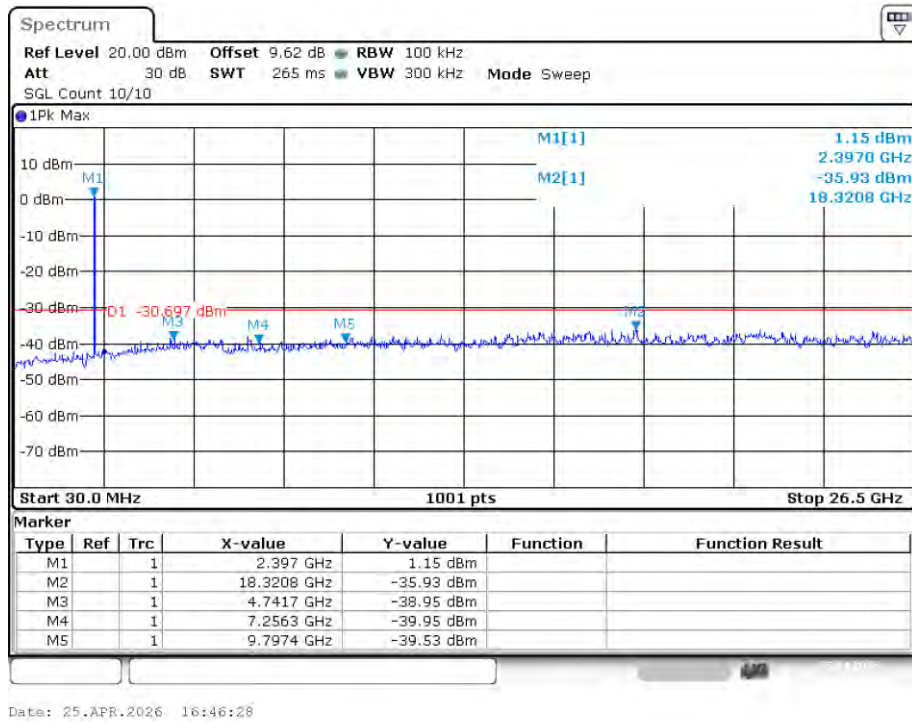
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Tx. Spurious NVNT b 2412MHz Ant1 Ref

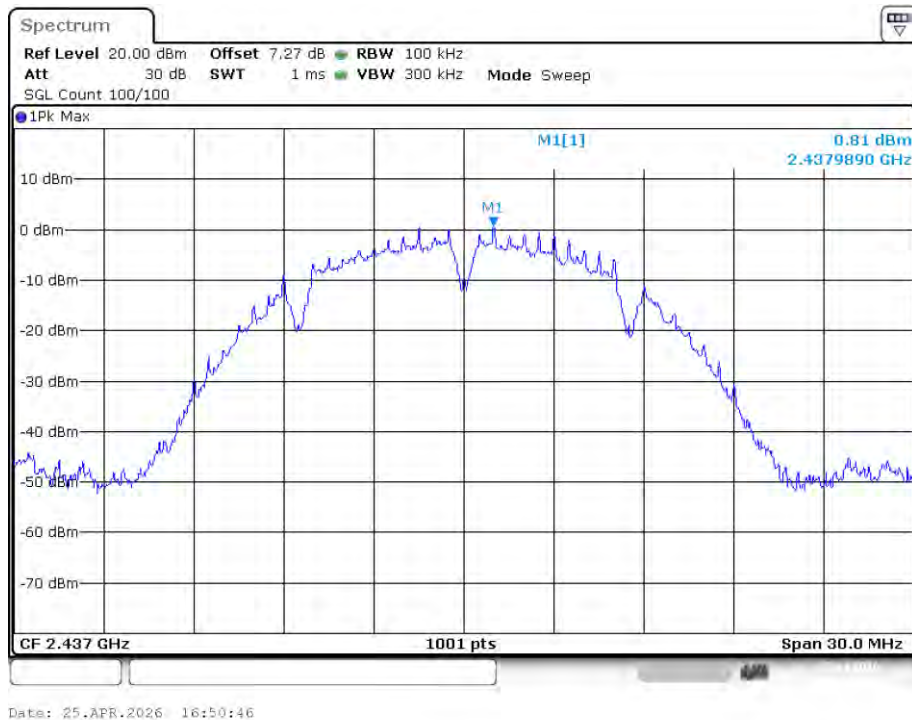


Date: 25.APR.2026 16:46:10

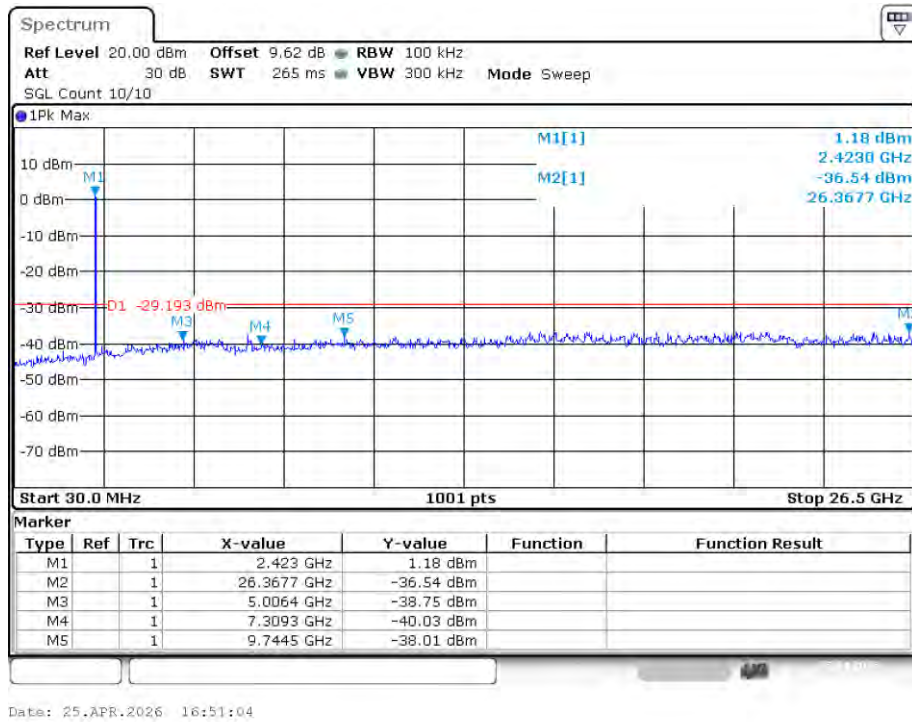
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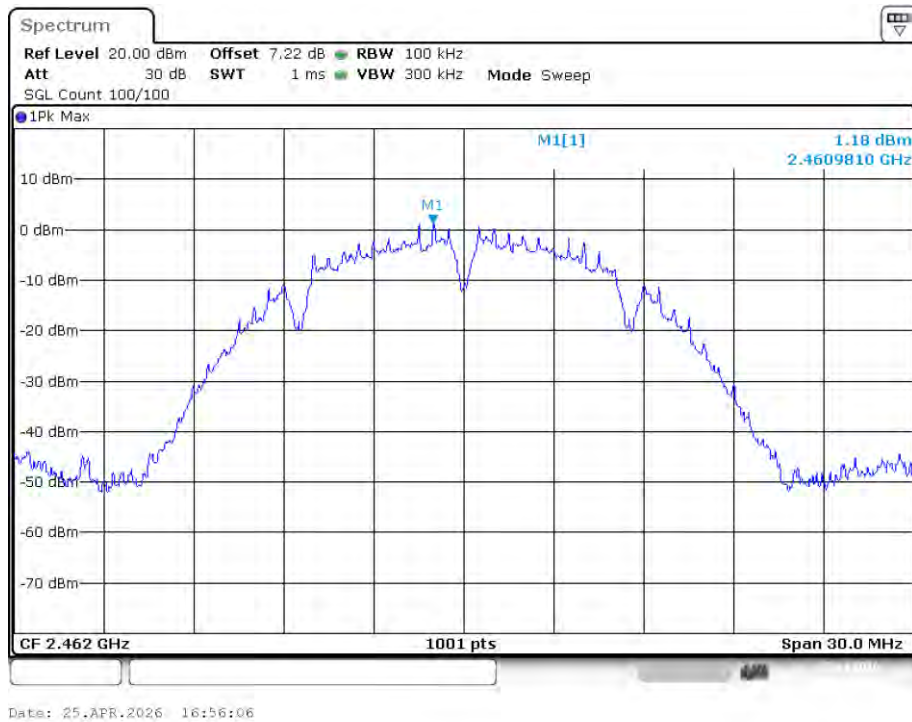
Tx. Spurious NVNT b 2437MHz Ant1 Ref



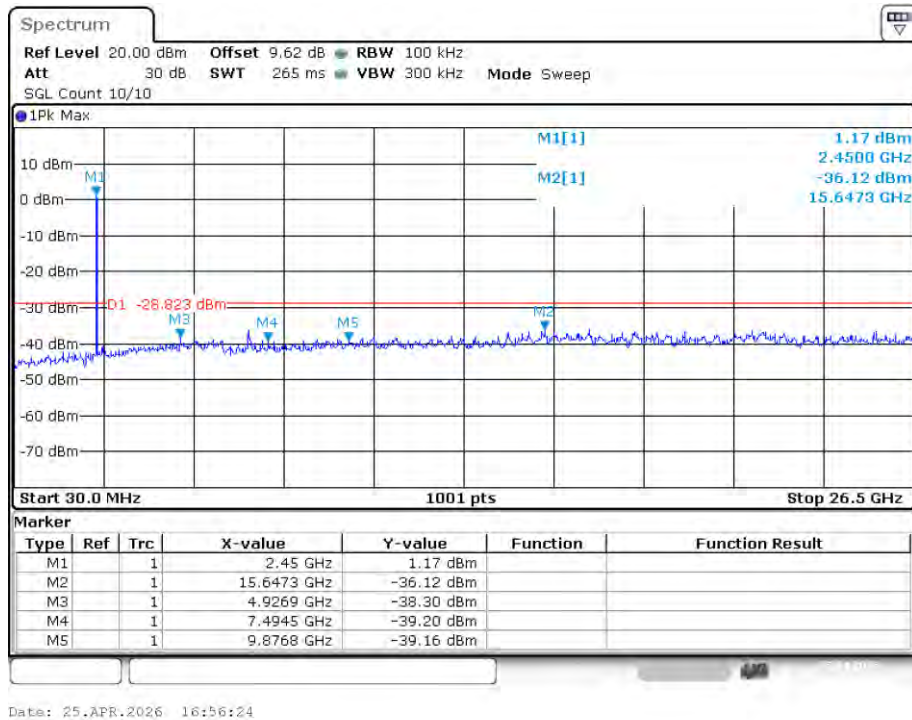
Tx. Spurious NVNT b 2437MHz Ant1 Emission



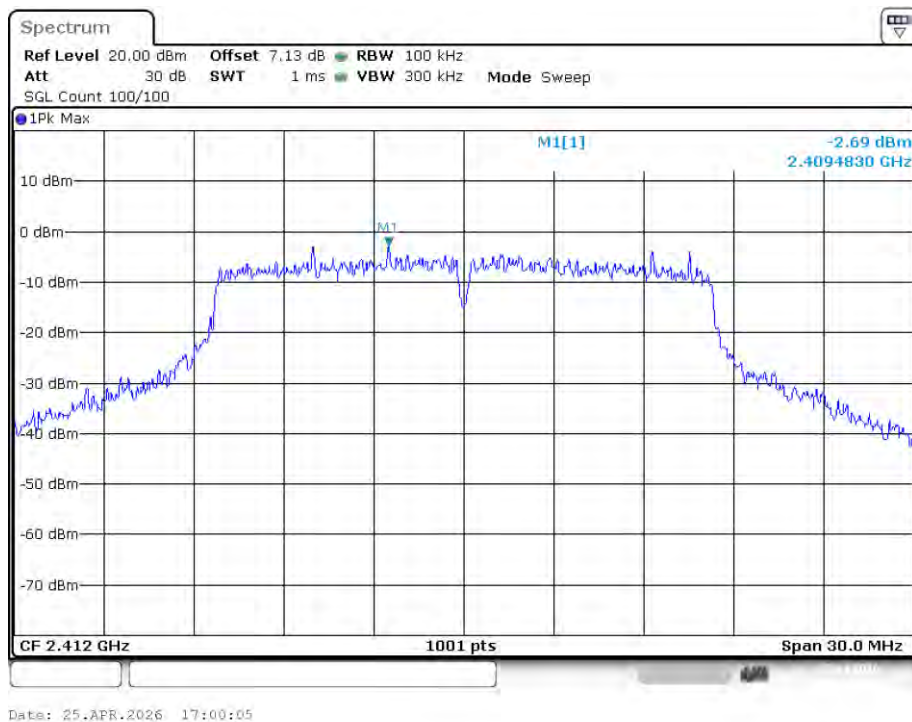
Tx. Spurious NVNT b 2462MHz Ant1 Ref



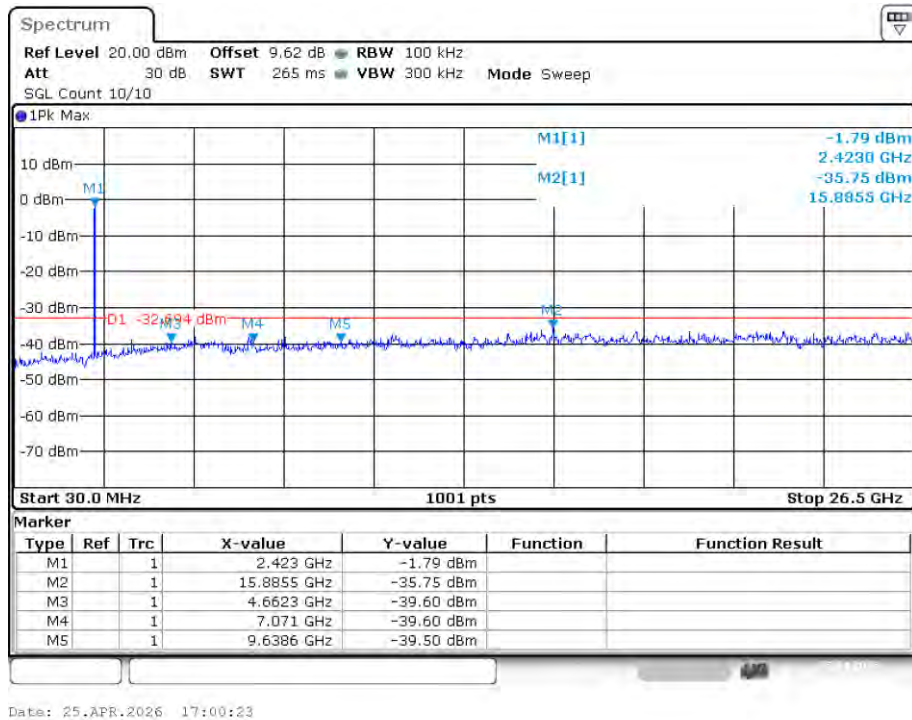
Tx. Spurious NVNT b 2462MHz Ant1 Emission



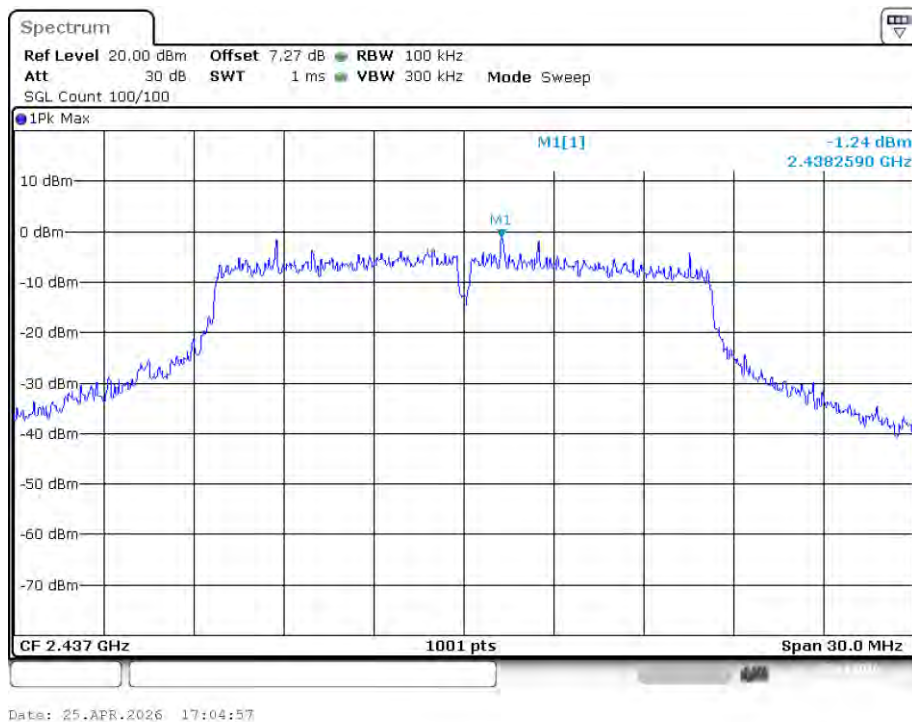
Tx. Spurious NVNT g 2412MHz Ant1 Ref



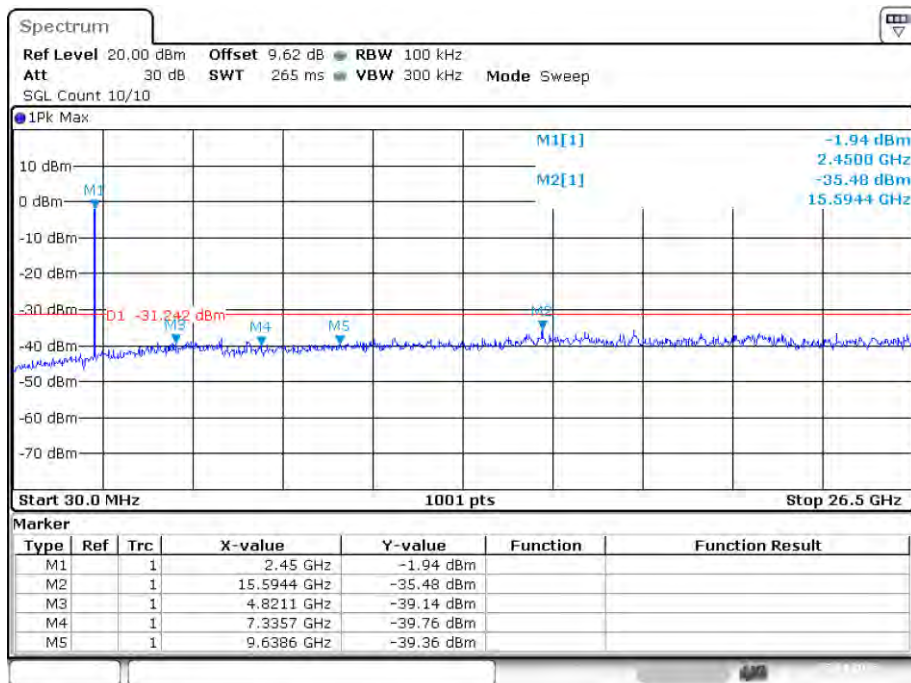
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref

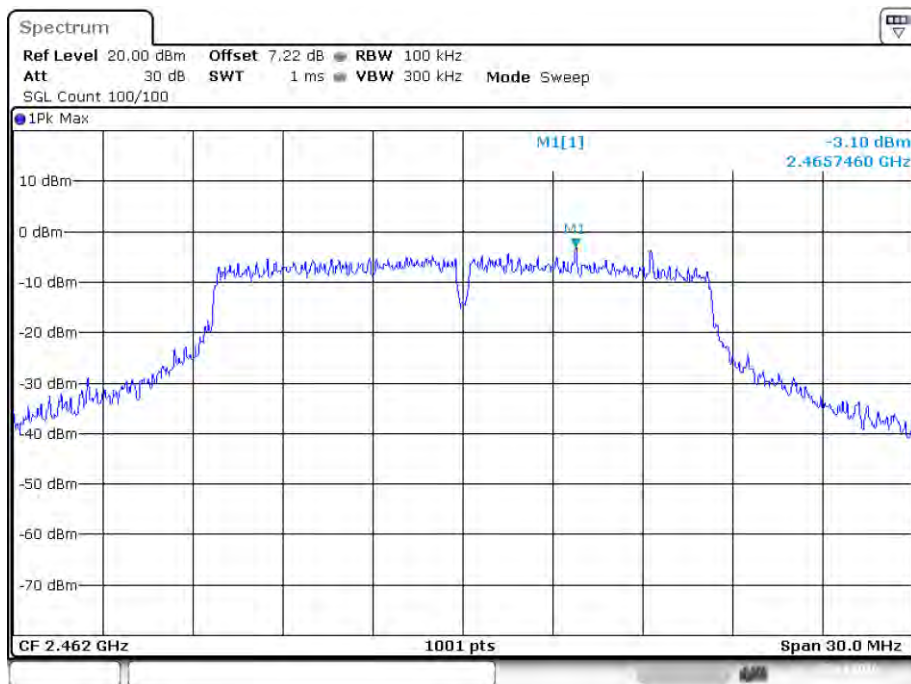


Tx. Spurious NVNT g 2437MHz Ant1 Emission



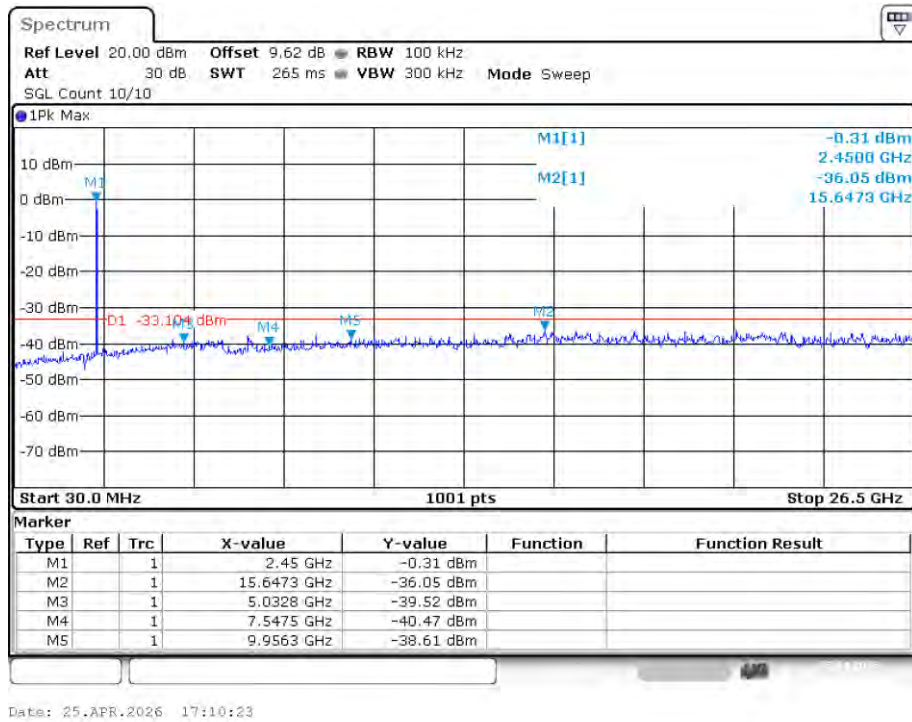
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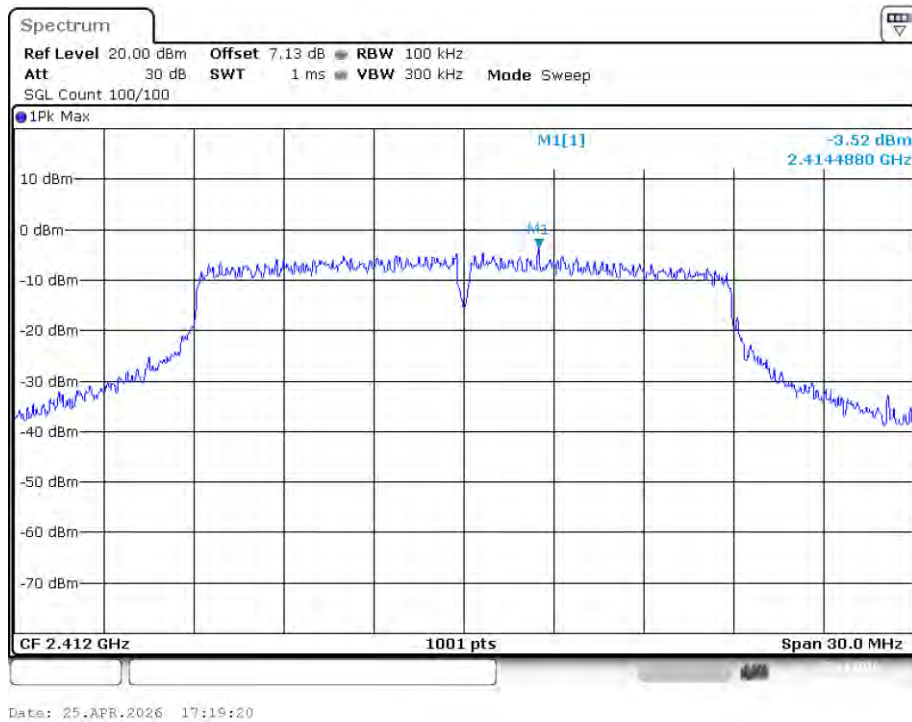


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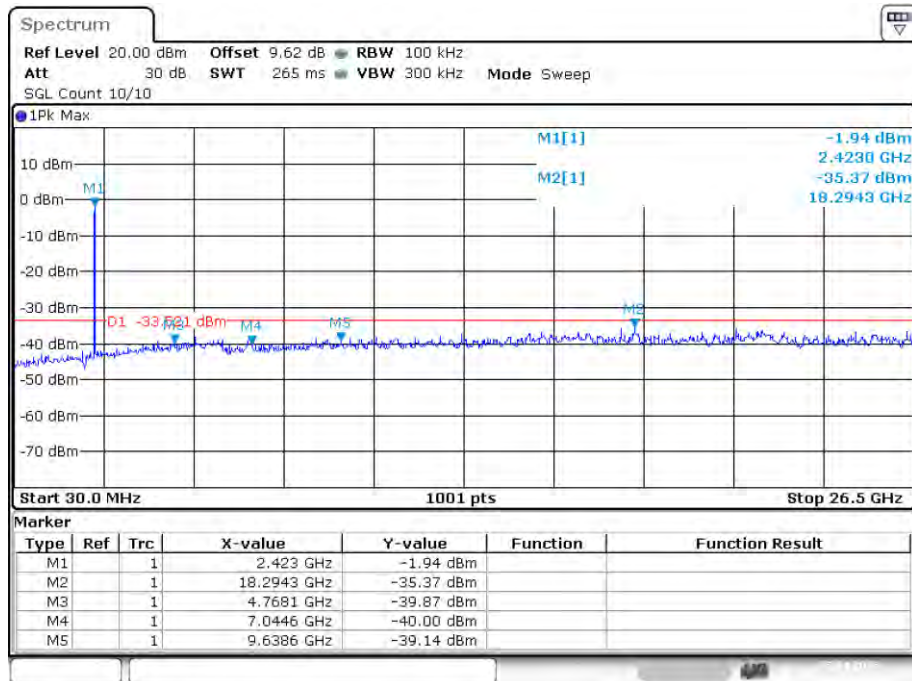
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref

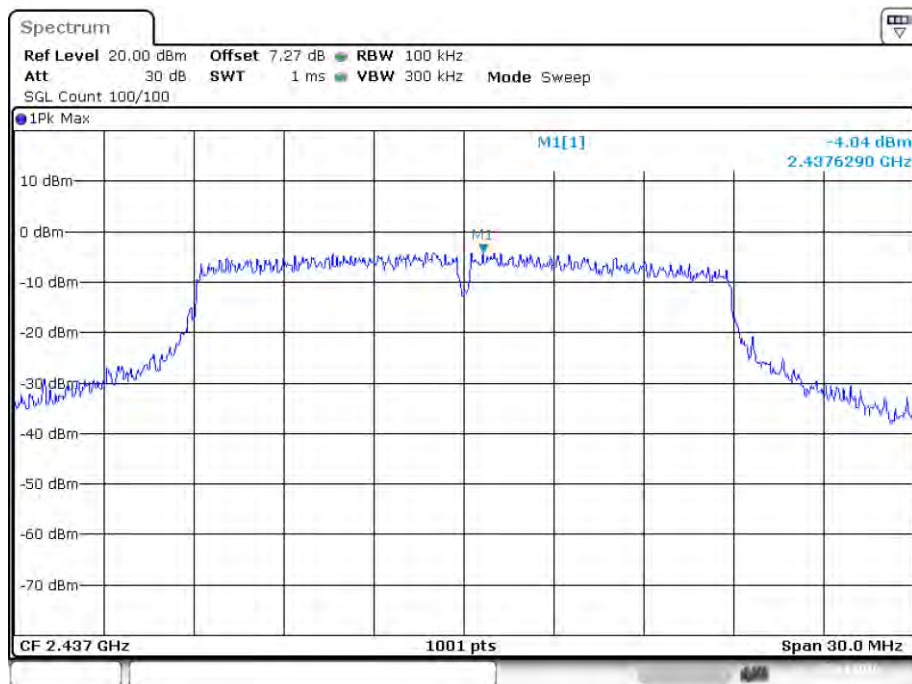


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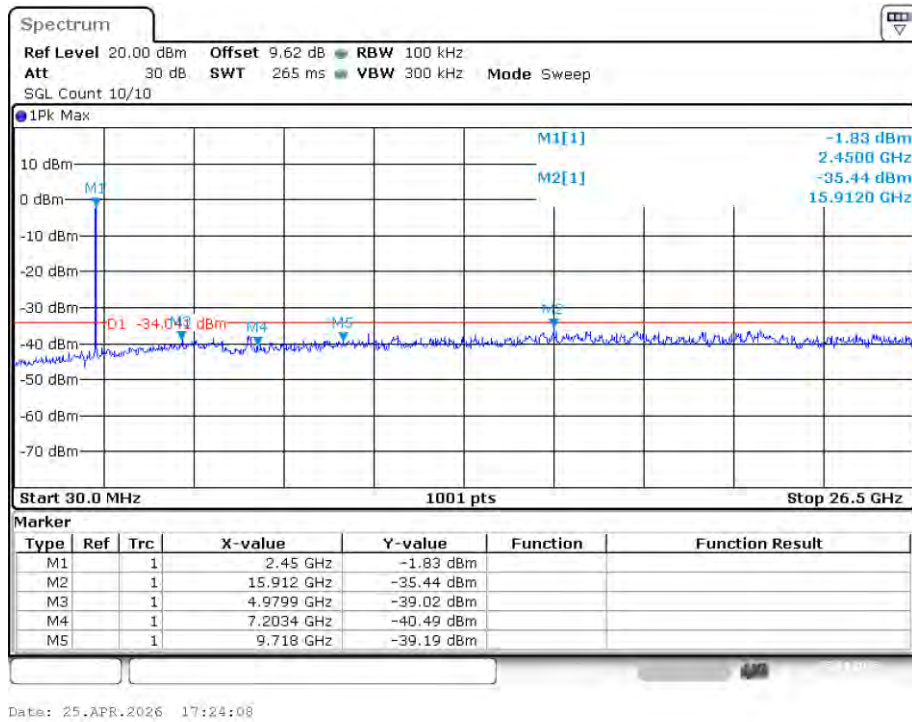
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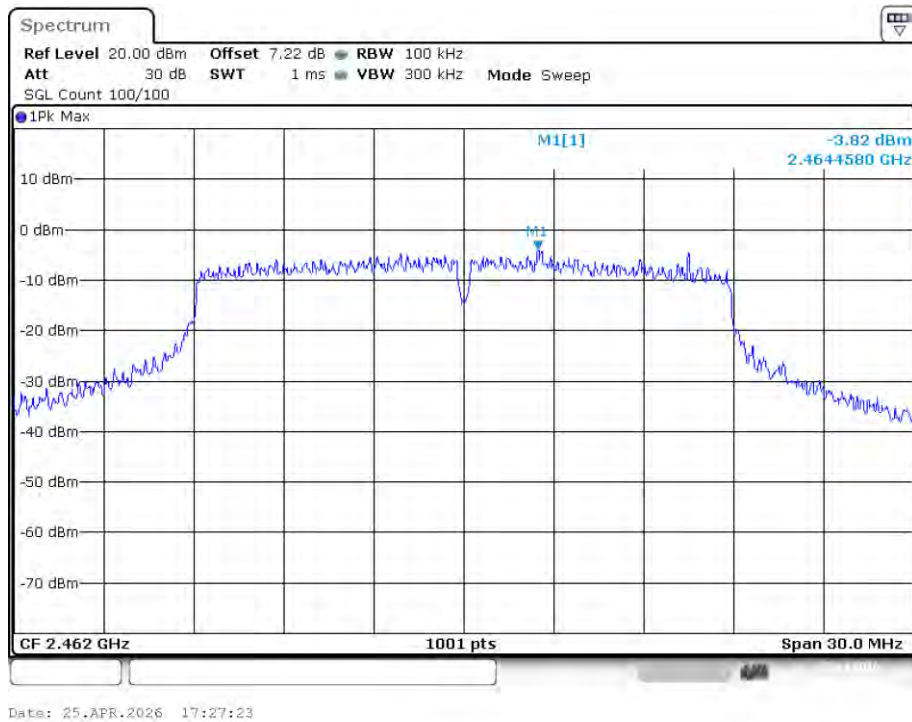


Date: 25.APR.2026 17:23:50

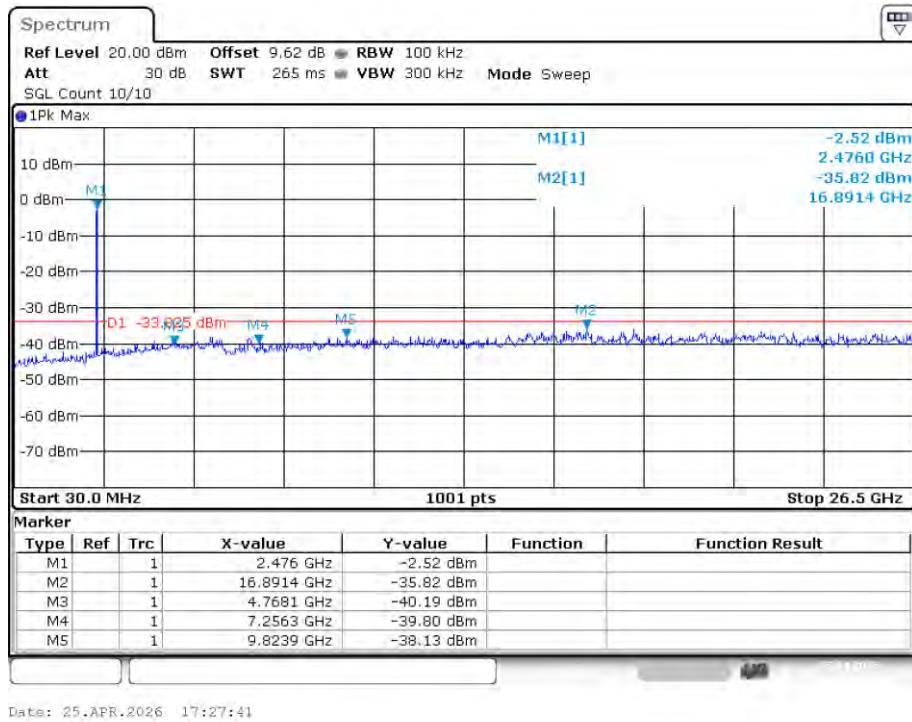
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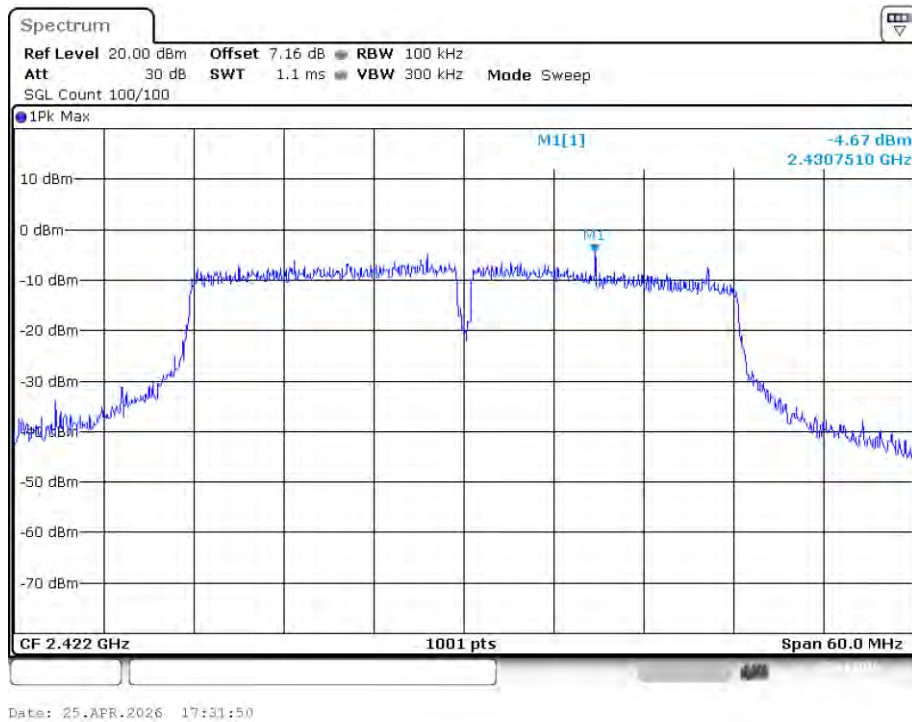
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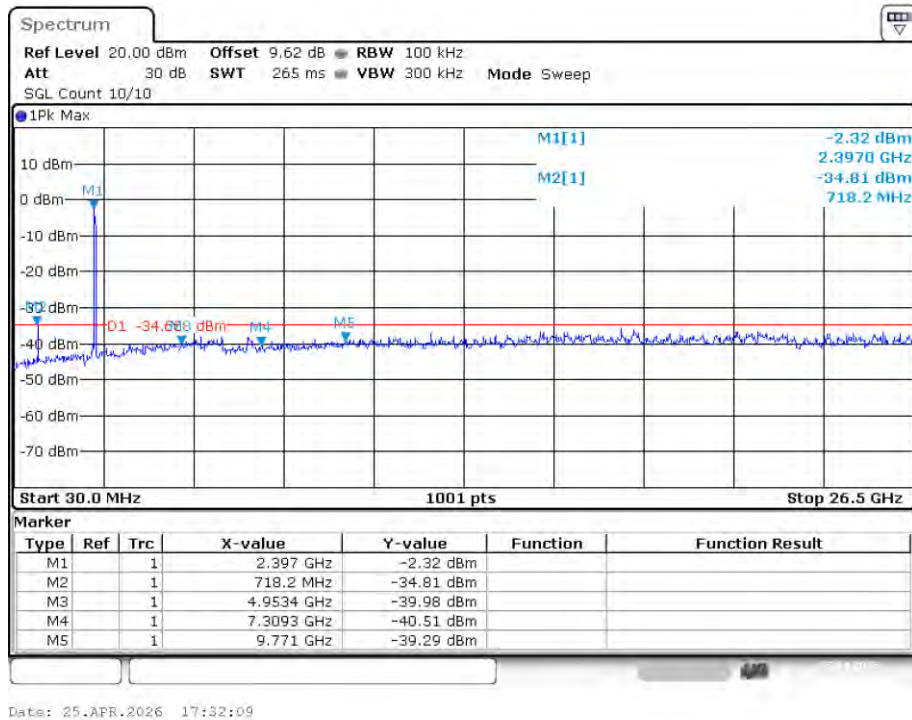
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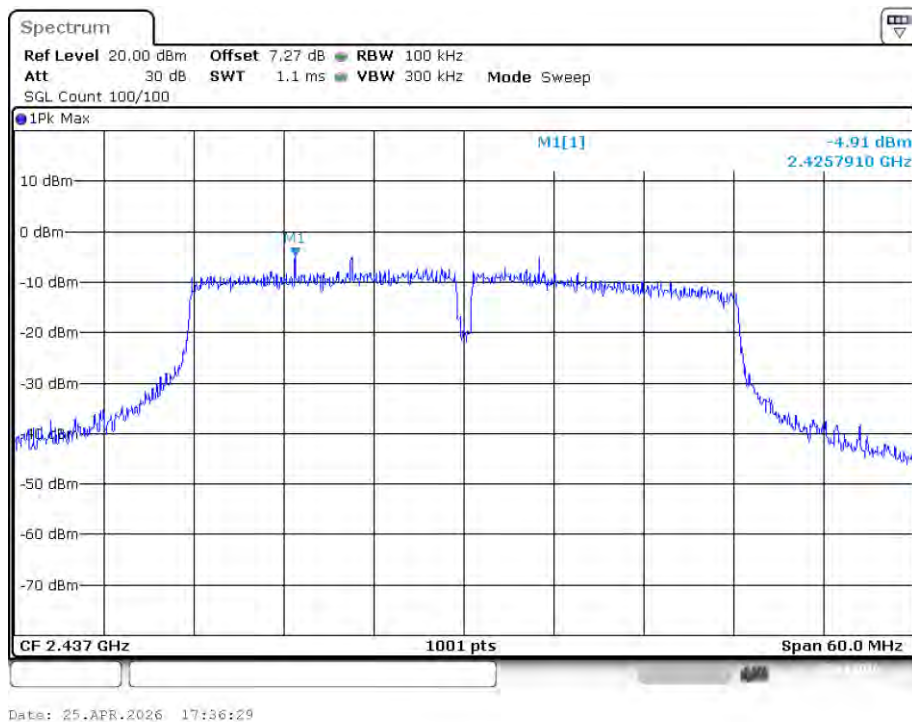
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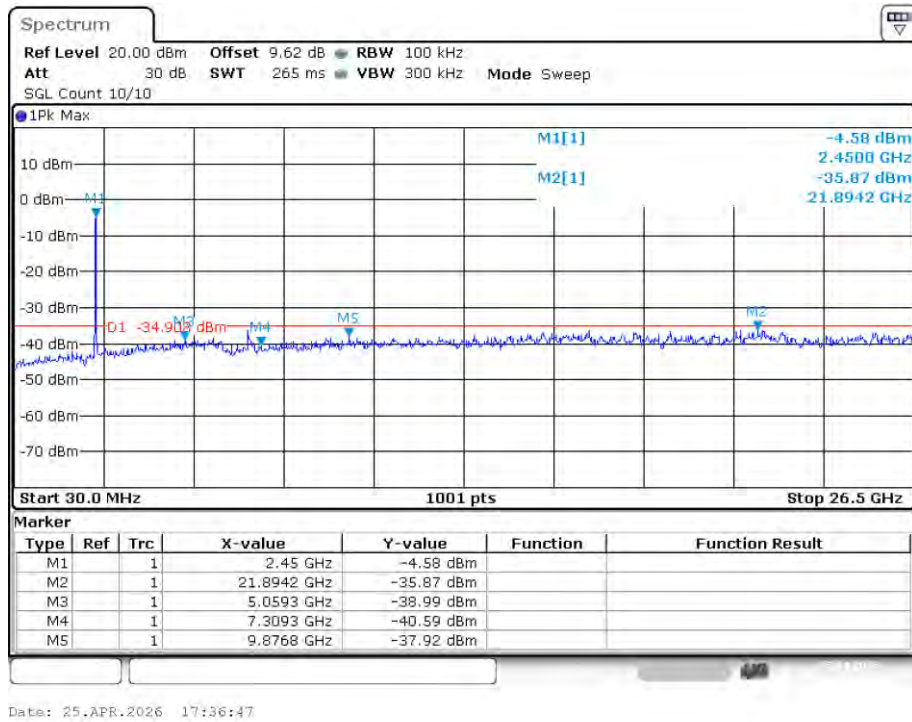
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



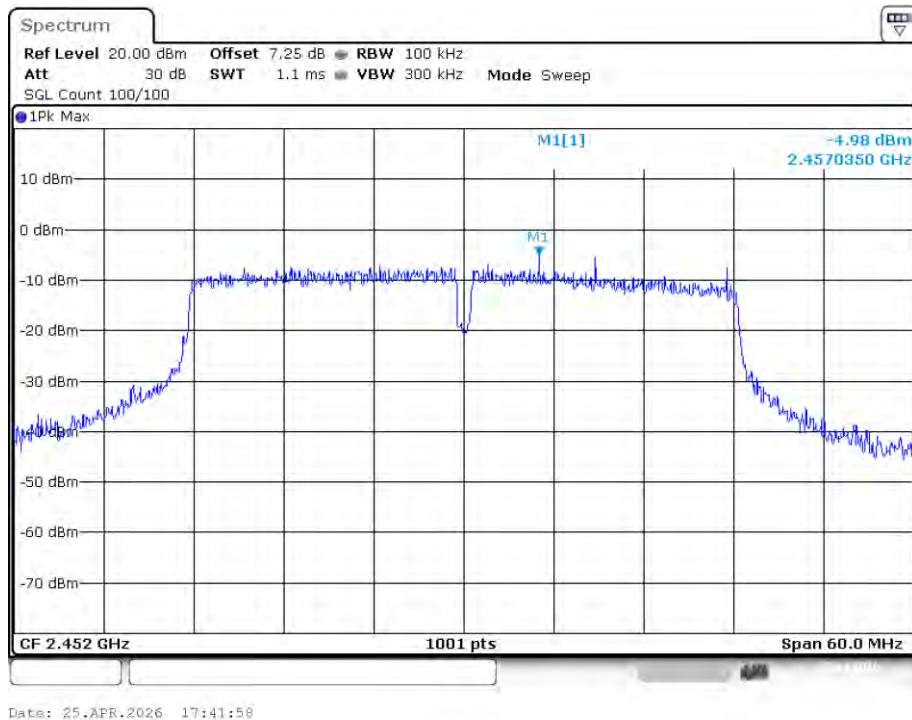
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



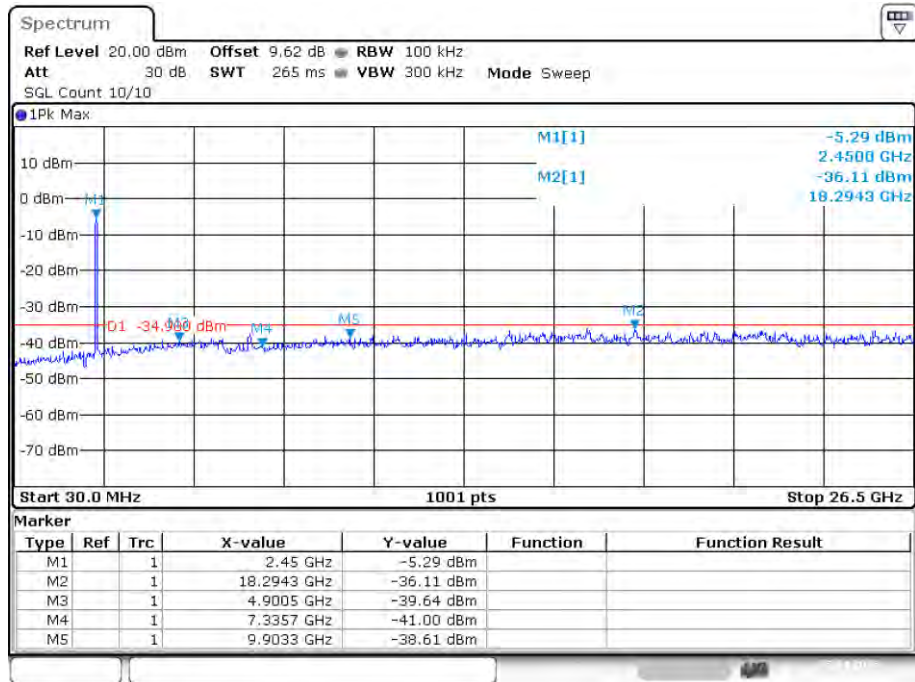
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Date: 25.APR.2026 17:42:16



APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****