



FCC TEST REPORT

FCC ID: 2AHJ5-S5SPRO

On Behalf of

EC Electronics, Limited

Desktop Terminal

Model No.: S5S Pro, EC-MT-S5-Pro, MT-S5-Pro, MTPOS-S5 Pro,
EC-MT-S5S-Pro, MT-S5S-Pro, MTPOS-S5S Pro, POS A15, POS
A15 Pro, ELZ-A15, ELZ A15 Pro, Android POS Terminal ELZ-A15,
POS android ELZ-A15, S5 Pro

Prepared for : EC Electronics, Limited
Address : Room 2A, 2/F., Mai Tak Industrial Building, 221 Wai Yip Street, Kwun
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Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
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Report Number : A2512079-C06-R02
Date of Receipt : December 10, 2025
Date of Test : December 10, 2025 – January 26, 2026
Date of Report : January 30, 2026
Version Number : V0
Result **Pass**

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TEST REPORT DECLARATION

Applicant : EC Electronics, Limited

Address : Room 2A, 2/F., Mai Tak Industrial Building, 221 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong, China

Manufacturer : K-tronics (Suzhou) Technology Co., Ltd.

Address : No.1088, Dajing Road, Economic and Technological Development Zone, Wujiang
District, Suzhou, Jiangsu Province, 215200, P.R. China

EUT Description : Desktop Terminal

(A) Model No. : S5S Pro, EC-MT-S5-Pro, MT-S5-Pro, MTPOS-S5
Pro, EC-MT-S5S-Pro, MT-S5S-Pro, MTPOS-S5S
Pro, POS A15, POS A15 Pro, ELZ-A15, ELZ A15
Pro, Android POS Terminal ELZ-A15, POS android
ELZ-A15, S5 Pro

(B) Trademark : N/A

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247,
ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Yannis Wen
Project Engineer



Approved by (name + signature).....: Jack Xu
Project Manager



Date of issue.....: January 30, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	January 30, 2026	Initial released Issue	Yannis Wen

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emission	FCC Part 15: 15.207	P
6dB Bandwidth	FCC PART 15:15.247(a)(2)	P
Output Power	FCC Part 15: 15.247(b)(3)	P
Radiated Spurious Emission	FCC Part 15: 15.209, FCC Part 15: 15.247(d)	P
Conducted Spurious & Band Edge Emission	FCC Part 15: 15.247(d)	P
Power Spectral Density	FCC PART 15:15.247(e)	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d)	P
Antenna Requirement	FCC Part 15: 15.203	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.		

1. Pass: The EUT complies with the essential requirements in the standard.
2. Frequency Stability: The manufacturer stated in the user's manual.
3. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description/PMN	: Desktop Terminal
Model	: S5S Pro, EC-MT-S5-Pro, MT-S5-Pro, MTPOS-S5 Pro, EC-MT-S5S-Pro, MT-S5S-Pro, MTPOS-S5S Pro, POS A15, POS A15 Pro, ELZ-A15, ELZ A15 Pro, Android POS Terminal ELZ-A15, POS android ELZ-A15, S5 Pro
Diff.	: After verification, all the models, except for the different names, have one additional difference: Model S5 Pro has only one secondary screen, while all the other models have one main screen and one secondary screen. For the models with dual screens, all the tests are made with the S5S Pro model. All the RF module sections of all models are exactly the same. Therefore, tests were conducted on both model S5S Pro and model S5 Pro, and the report shows the data for model S5S Pro, which was the worst among all.
Test Voltage	: DC 24V from adapter

Radio Technology	: Bluetooth BLE
Operation frequency	: 2402-2480MHz
Channel No.	: 40 channels
Data rate	: 1Mbps/2Mbps
Channel Separation	: 2MHz
Modulation	: GFSK
Antenna Type	: FPC antenna, max gain 2.78dBi (Antenna information is provided by applicant.)
Software Version	: V1.0
Hardware version	: V1.0
Intend use environment	: Residential, commercial and light industrial environment

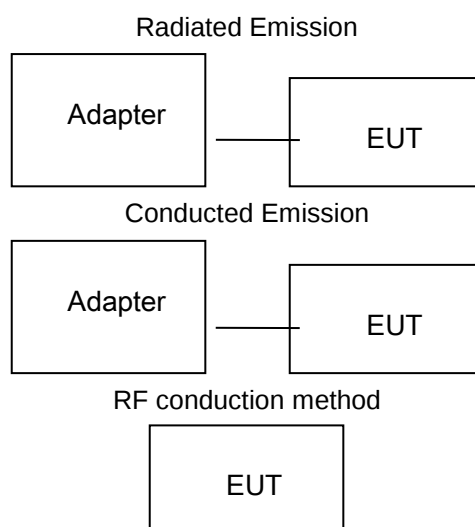
2.2. Accessories of Device (EUT)

Accessories	:	AC ADAPTOR
Manufacturer	:	SHENZHEN K-TECH TECHNOLOGY CO., LTD
Model	:	GW48W-240150M3
Ratings	:	Input: 100-240V~50/60Hz 1.2A Output: 24.0V=1.5A 36.0W

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1.	N/A	N/A	N/A	N/A	N/A

2.4. Block Diagram of Test



2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK(1Mbps/2Mbps)	Low : CH0	2402
	Middle: CH19	2440
	High: CH39	2480

Use the adb command to control EUT work in Continuous TX mode, and select test channel, wireless mode, the power level of the test is set to default.

Channel list							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH0	2402	CH10	2422	CH20	2442	CH30	2462
CH1	2404	CH11	2424	CH21	2444	CH31	2464
CH2	2406	CH12	2426	CH22	2446	CH32	2466
CH3	2408	CH13	2428	CH23	2448	CH33	2468
CH4	2410	CH14	2430	CH24	2450	CH34	2470
CH5	2412	CH15	2432	CH25	2452	CH35	2472
CH6	2414	CH16	2434	CH26	2454	CH36	2474
CH7	2416	CH17	2436	CH27	2456	CH37	2476
CH8	2418	CH18	2438	CH28	2458	CH38	2478
CH9	2420	CH19	2440	CH29	2460	CH39	2480

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	27℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961
Designation Number: CN1236

July 15, 2019 Certificated by IC
Registration Number: 12135A
CAB identified: CN0085

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.74dB(Polarize: V)
	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	5.06×10-8GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%
Uncertainty for Power Spectral Density	0.39dB
Uncertainty for Occupied-Bandwidth	968Hz

2.9. Test Equipment List

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025.03.09	4Year
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025.03.09	4Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2025.08.04	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2025.08.04	1Year
Spectrum analyzer	Keysight	N9020A	A.19.05	MY54500254	2025.08.04	1Year
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.20	1201.0002K50-149889-wL	2025.08.04	1Year
CMW500	ROHDE&SCHWARZ	CMW500	V 3.7.22	1201.0002K50-117239-sM	2025.08.04	1Year
UXM 5G Base Wireless Test Platform	Keysight	E5175E	1.8.1.2908 2(NR)(LTE)	MY62226130	2025.03.06	1Year
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2025.08.04	1Year
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2025.08.04	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025.08.11	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025.08.11	2Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025.08.11	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2025.08.04	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2025.08.04	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2025.08.04	1Year
Amplifier	HP	HP8347A	/	2834A00455	2025.08.04	1Year
Amplifier	Agilent	8449B	/	3008A02664	2025.08.04	1Year
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2025.08.04	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2025.08.04	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025.08.11	2Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2025.08.04	1 Year
Vector Signal Generator	Agilent	N5182A	/	MY49060042	2025.08.04	1 Year
Vector Signal Generator	Agilent	N5172B	2.02	MY51350397	2025.08.04	1 Year
Power Meter	Agilent	E4419B	/	GB40202122	2025.08.04	1 Year
Power Sensor	Agilent	E9300A	/	MY41496628	2025.08.04	1 Year
Power Sensor	Agilent	E9304A	/	MY41496815	2025.08.04	1 Year
Power Sensor	DARE	RPR3006W		15100041SNO91	2025.08.04	1 Year
Power Sensor	DARE	RPR3006W		15100041SNO92	2025.08.04	1 Year
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2025.07.14	1 Year
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2025.08.04	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2025.08.04	1 Year
Adjustable	MWRFTtest	N/A	/	N/A	N/A	N/A

attenuator						
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

3. SPURIOUS EMISSION

3.1. Test Limits

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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	(²)

RSS-GEN Restricted frequency band

Table 7 – Restricted frequency bands ^{Note 1}

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0

6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Note 1: The peak limit is 20 dB higher than the average limit			
Note 2: Peak limit applies (AVG limit + 20 dB) as well as RSS-247 Section 5.5			

Harmonic emissions limits comply with below 54 $\text{dB}\mu\text{V}/\text{m}$ at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) ($\mu\text{A}/\text{m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	$6.37/\text{F}$ (F in kHz)	300
490 - 1705 kHz	$63.7/\text{F}$ (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

3.2. Test Procedure

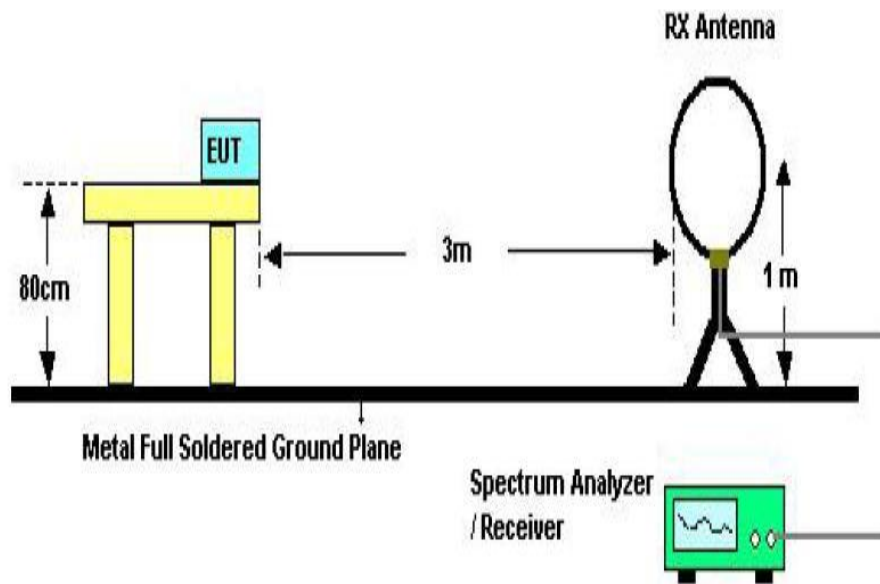
The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz. The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing. The table was rotated 360 degrees to determine the position of the highest radiation. The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

The initial step in collecting radiated emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Quasi Peak Detector mode premeasured.

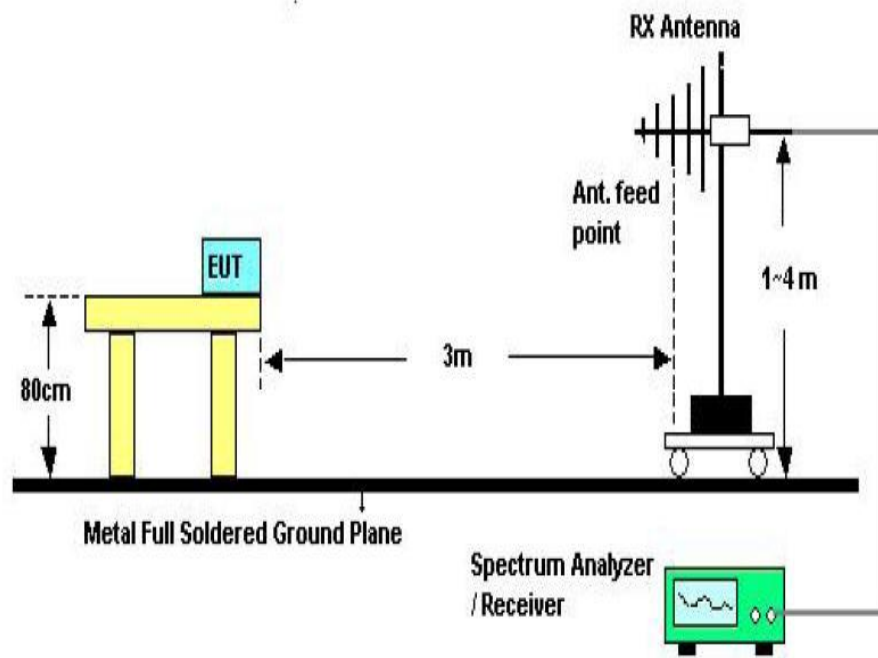
If Peak value comply with QP limit Below 1GHz, the EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.

For the actual test configuration, please see the test setup photo.

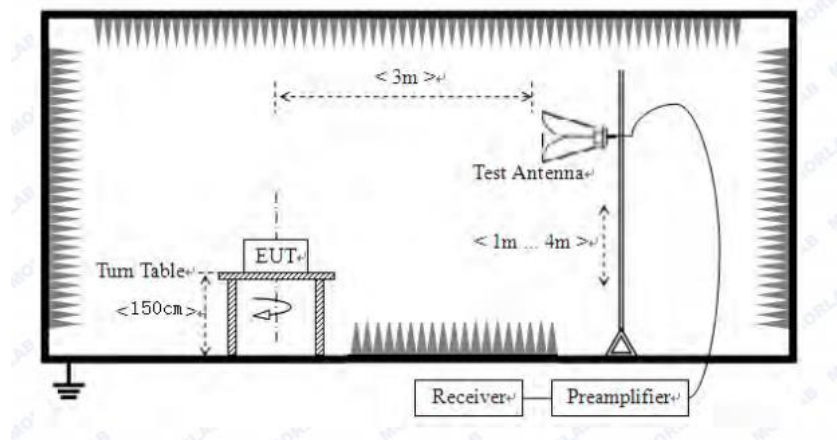
3.3. Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.4. Test Results

Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned from 9 kHz to the 10th harmonic of the EUT.

Detailed information please see the following page.

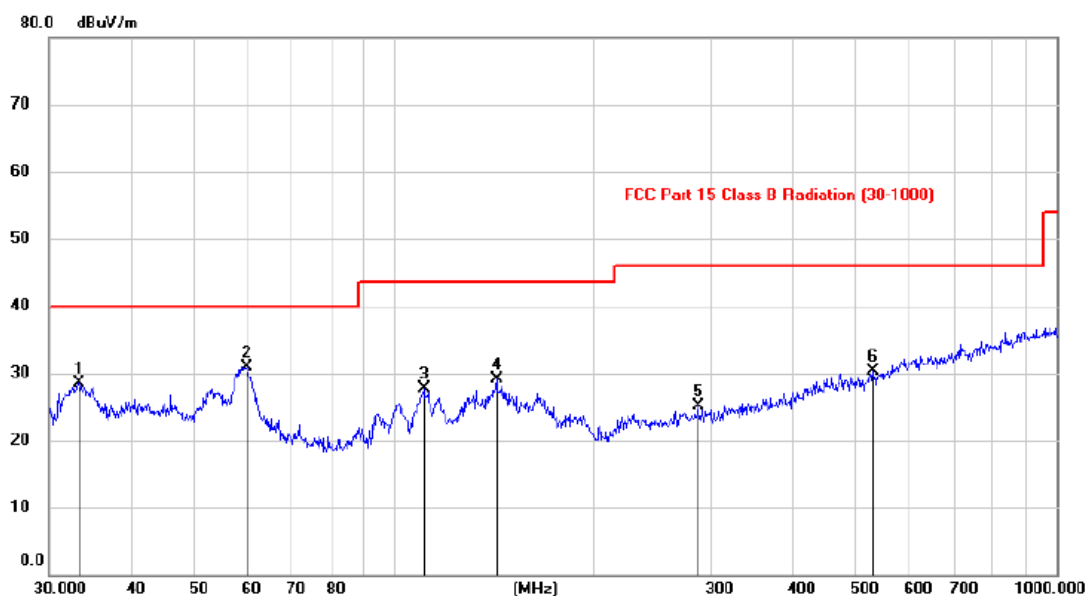
From 9KHz to 30MHz: Conclusion: Pass

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2. Only show the test data of the worst Channel in this report.

From 30MHz to 1000MHz: Conclusion: Pass

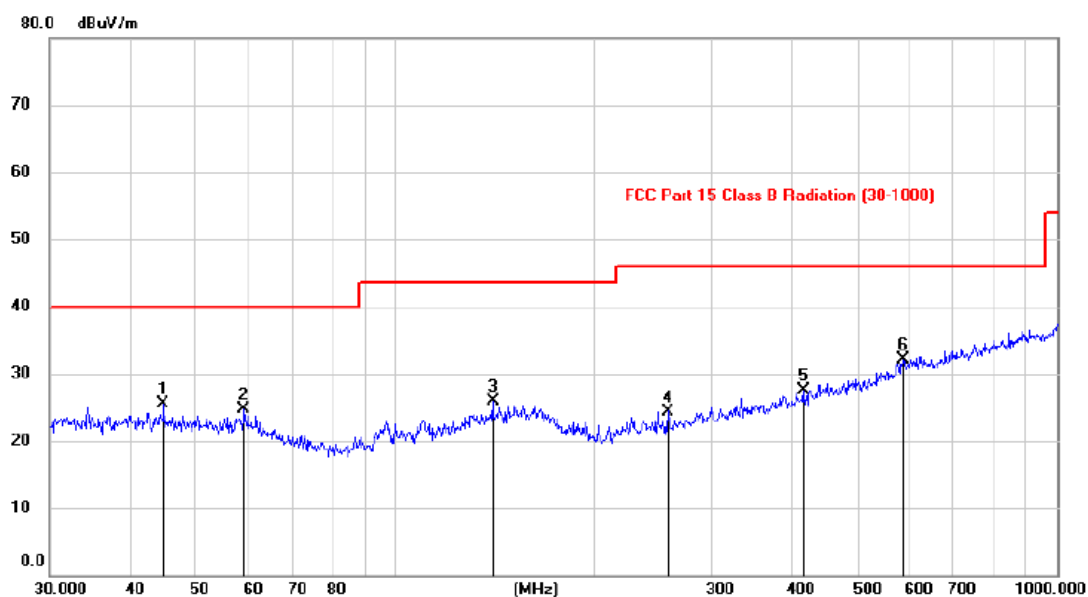
Vertical:



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		33.4254	14.78	13.67	28.45	40.00	-11.55	peak		
2	*	59.9919	17.70	13.25	30.95	40.00	-9.05	peak		
3		110.9052	15.70	11.94	27.64	43.50	-15.86	peak		
4		142.6575	14.64	14.51	29.15	43.50	-14.35	peak		
5		287.1501	11.28	13.79	25.07	46.00	-20.93	peak		
6		529.5440	11.50	18.85	30.35	46.00	-15.65	peak		

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

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

Horizontal:

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		44.6233	11.32	14.15	25.47	40.00	-14.53	peak		
2		59.0596	11.47	13.25	24.72	40.00	-15.28	peak		
3		140.5884	11.63	14.36	25.99	43.50	-17.51	peak		
4		258.6890	11.46	12.94	24.40	46.00	-21.60	peak		
5		414.6254	10.91	16.60	27.51	46.00	-18.49	peak		
6	*	585.6103	12.18	19.94	32.12	46.00	-13.88	peak		

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

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

Notes: Above is below 1GHz test data. This report only shall the worst case mode for TX 2440MHz.(1Mbps)

Test Mode: 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
4804	42.96	V	33.95	10.18	34.26	52.83	74	-21.17	PK
4804	37.94	V	33.95	10.18	34.26	47.81	54	-6.19	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	44.70	H	33.95	10.18	34.26	54.57	74	-19.43	PK
4804	34.56	H	33.95	10.18	34.26	44.43	54	-9.57	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	44.16	V	33.93	10.2	34.29	54.00	74	-20.00	PK
4880	36.56	V	33.93	10.2	34.29	46.40	54	-7.60	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	44.18	H	33.93	10.2	34.29	54.02	74	-19.98	PK
4880	35.73	H	33.93	10.2	34.29	45.57	54	-8.43	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4960	43.13	V	33.98	10.22	34.25	53.08	74	-20.92	PK
4960	36.35	V	33.98	10.22	34.25	46.30	54	-7.70	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	43.16	H	33.98	10.22	34.25	53.11	74	-20.89	PK
4960	32.17	H	33.98	10.22	34.25	42.12	54	-11.88	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
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 FCC&RSS-GEN limit.									

From 1G-25GHz(2Mbps):

Test Mode: 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
4804	45.06	V	33.95	10.18	34.26	54.93	74	-19.07	PK
4804	36.20	V	33.95	10.18	34.26	46.07	54	-7.93	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
4804	42.83	H	33.95	10.18	34.26	52.70	74	-21.30	PK
4804	35.97	H	33.95	10.18	34.26	45.84	54	-8.16	AV
7206	/	/	/	/	/	/	/	/	/
9608	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	41.51	V	33.93	10.2	34.29	51.35	74	-22.65	PK
4880	35.32	V	33.93	10.2	34.29	45.16	54	-8.84	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	44.70	H	33.93	10.2	34.29	54.54	74	-19.46	PK
4880	36.53	H	33.93	10.2	34.29	46.37	54	-7.63	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4960	46.11	V	33.98	10.22	34.25	56.06	74	-17.94	PK
4960	36.21	V	33.98	10.22	34.25	46.16	54	-7.84	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/
4960	44.17	H	33.98	10.22	34.25	54.12	74	-19.88	PK
4960	31.91	H	33.98	10.22	34.25	41.86	54	-12.14	AV
7440	/	/	/	/	/	/	/	/	/
9920	/	/	/	/	/	/	/	/	/

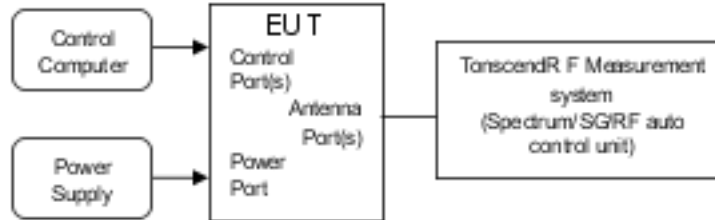
Note:

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.

4. RF CONDUCTED SPURIOUS EMISSIONS

4.1. Block diagram of test setup



4.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

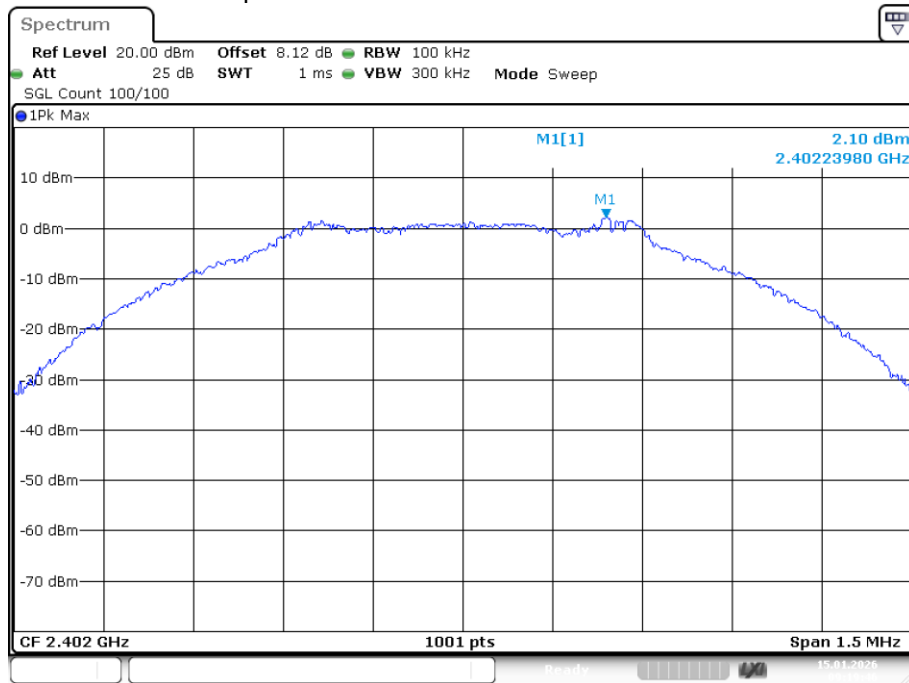
4.3. Test procedure

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz. The detector is set to Peak. The trace mode is max hold.

4.4. Test result

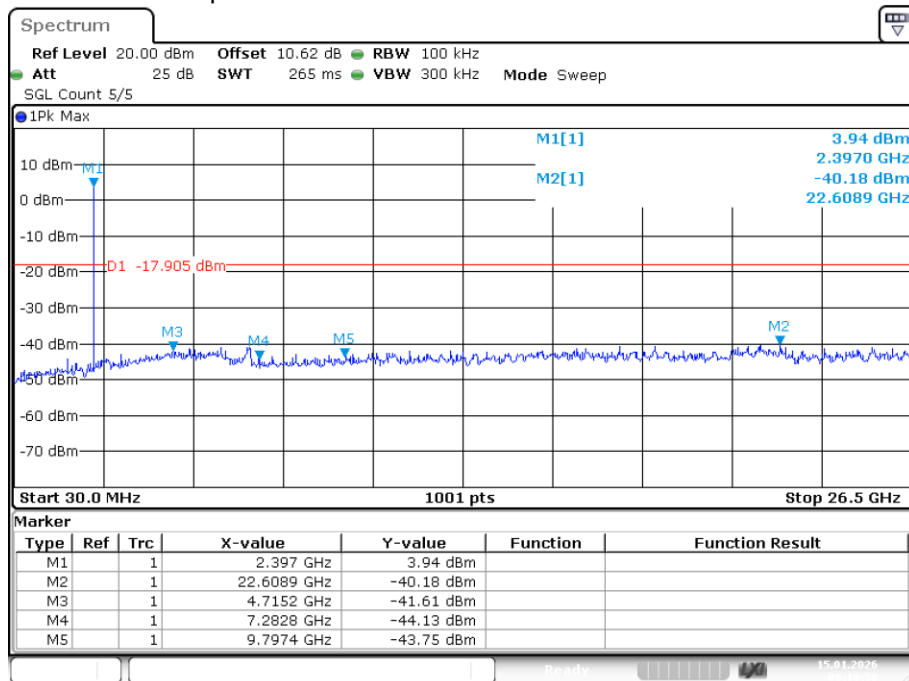
PASS

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



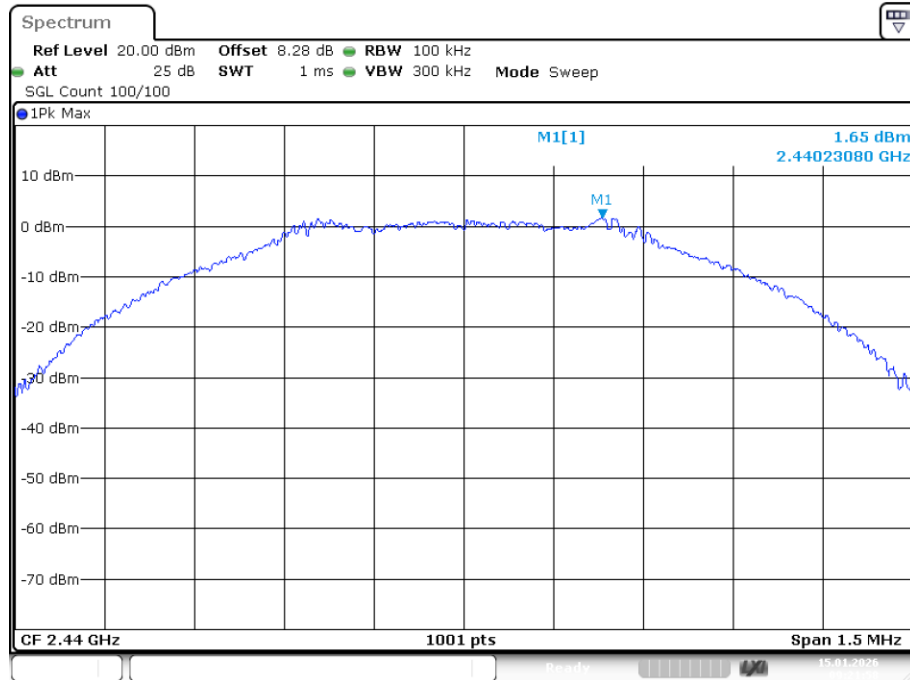
Date: 15.JAN.2026 09:19:46

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



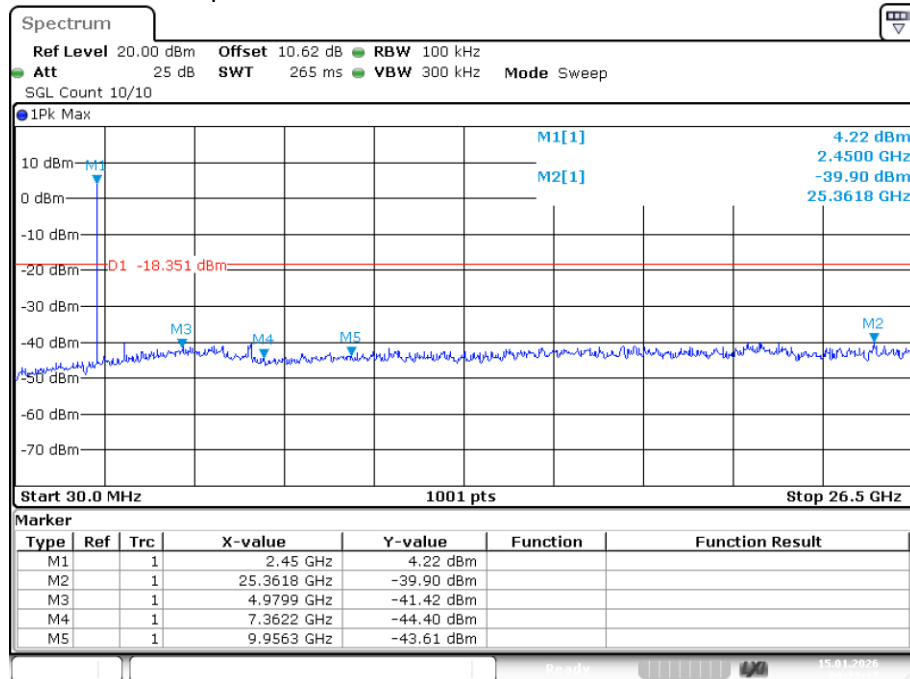
Date: 15.JAN.2026 09:19:57

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



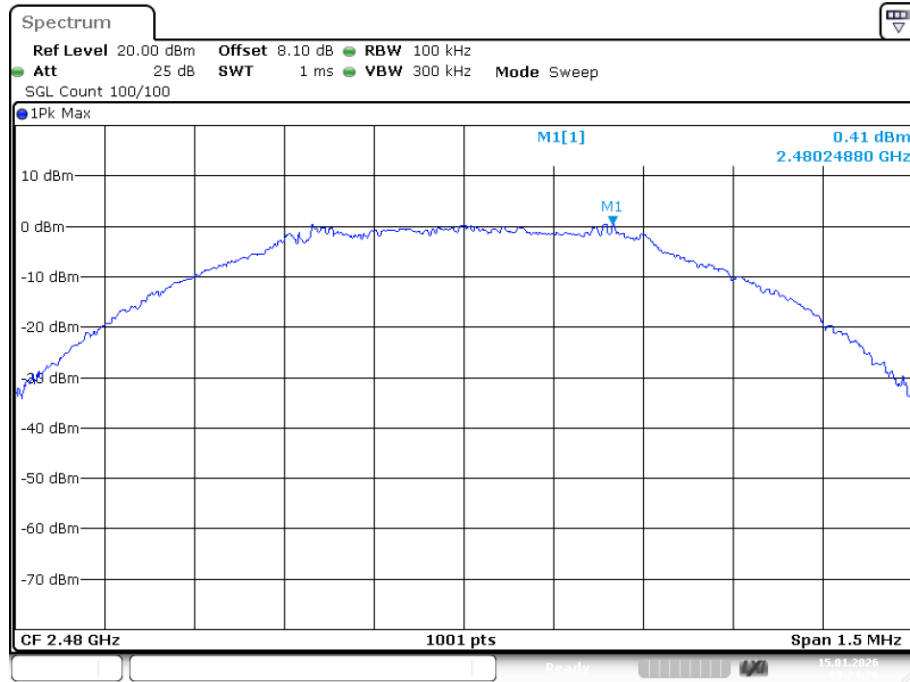
Date: 15.JAN.2026 09:21:58

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



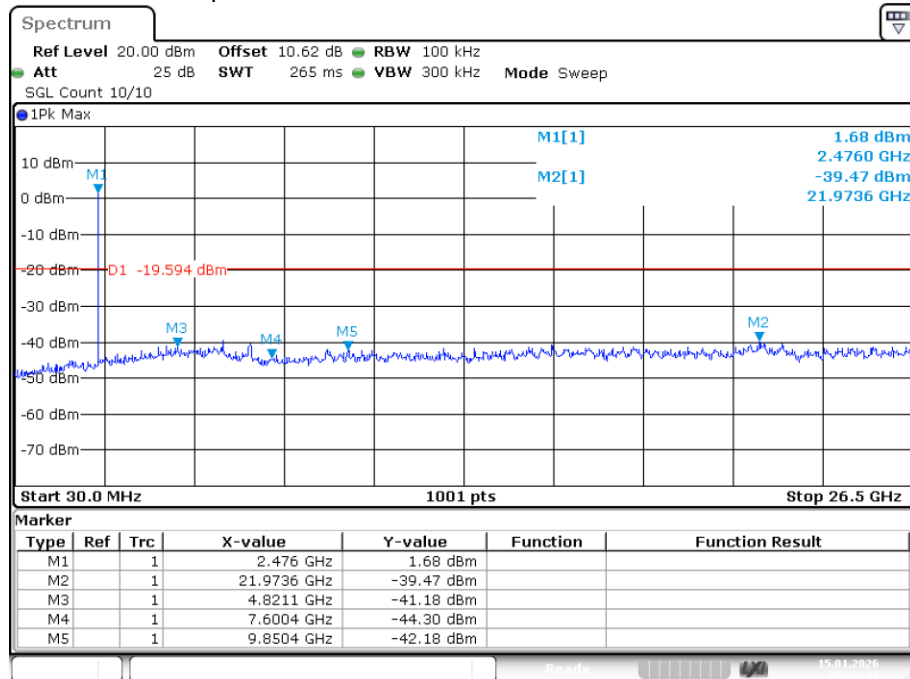
Date: 15.JAN.2026 09:22:17

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



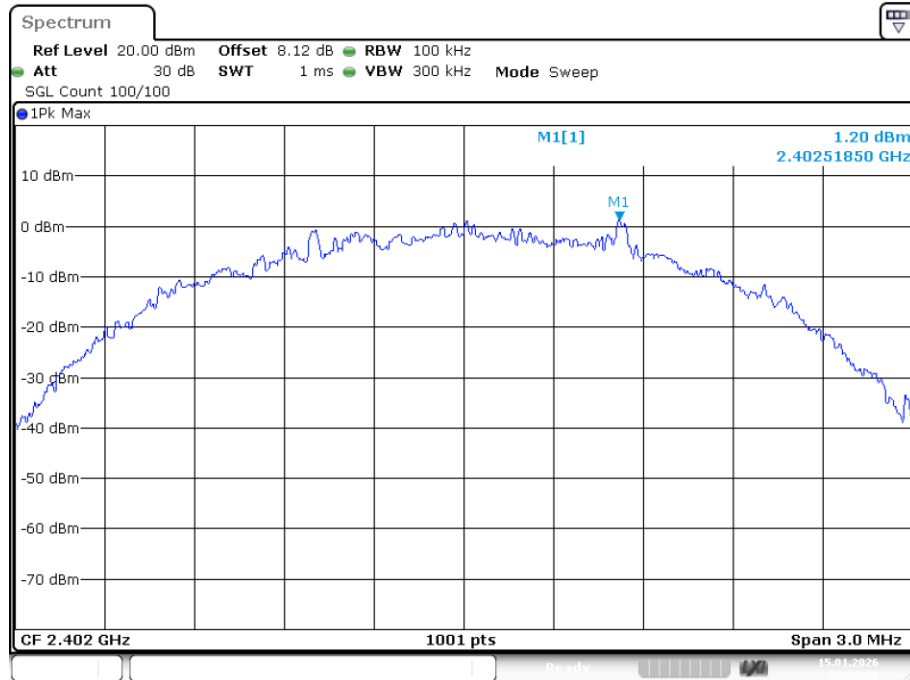
Date: 15.JAN.2026 09:24:25

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



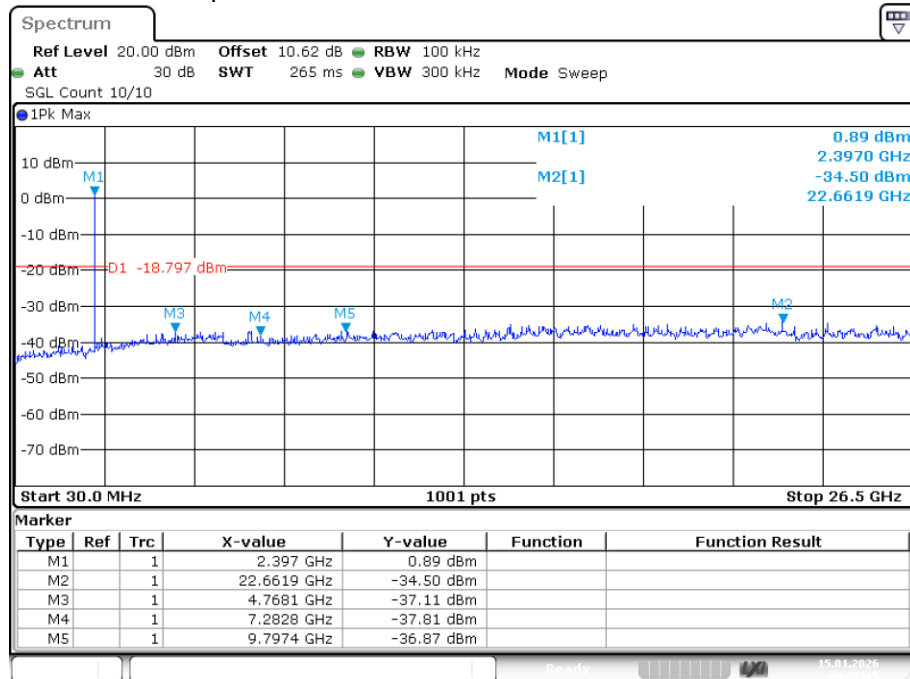
Date: 15.JAN.2026 09:24:43

Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



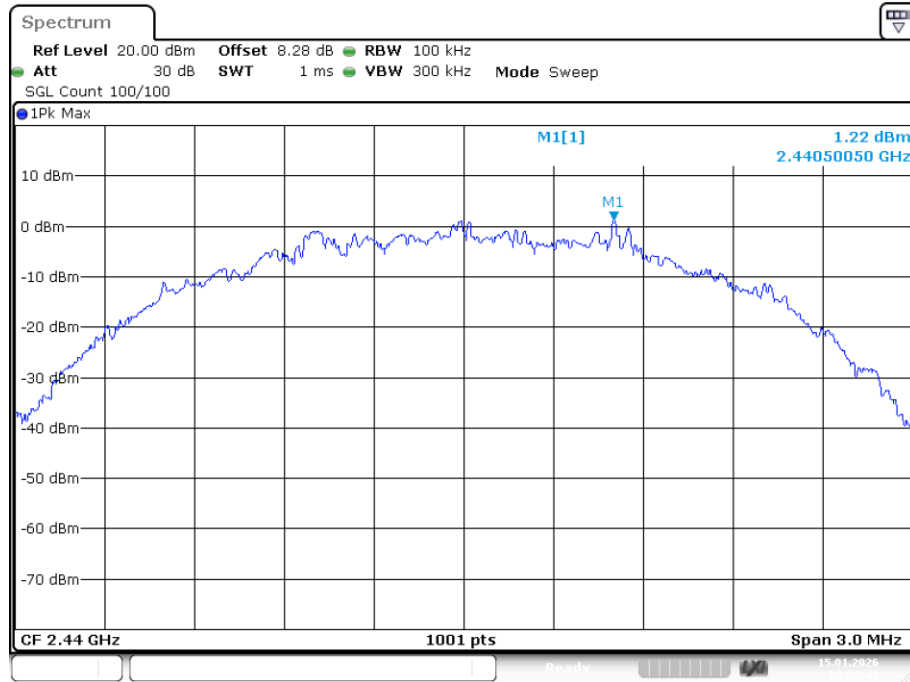
Date: 15.JAN.2026 09:26:56

Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



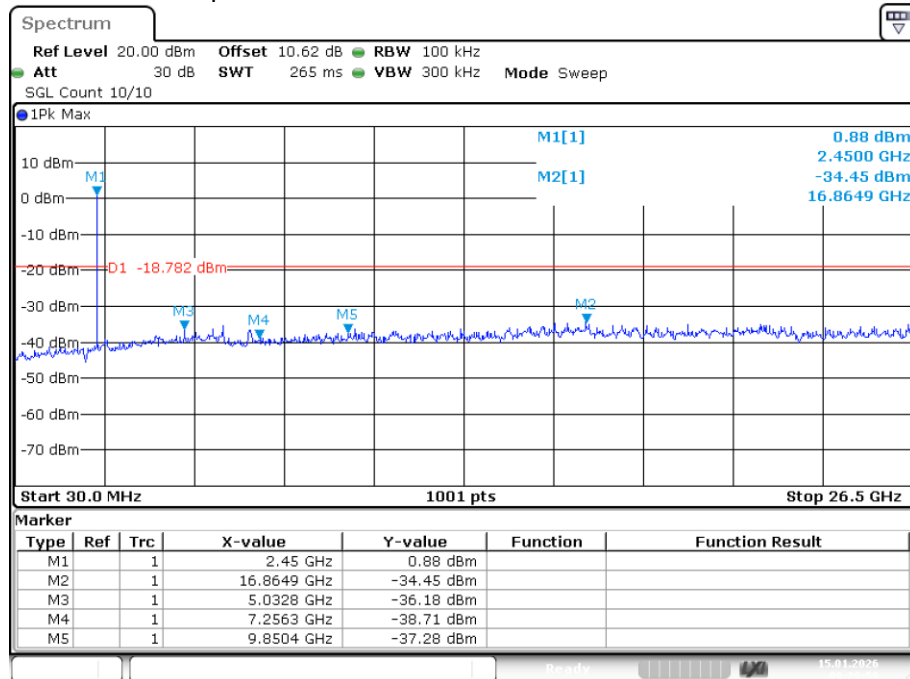
Date: 15.JAN.2026 09:27:14

Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



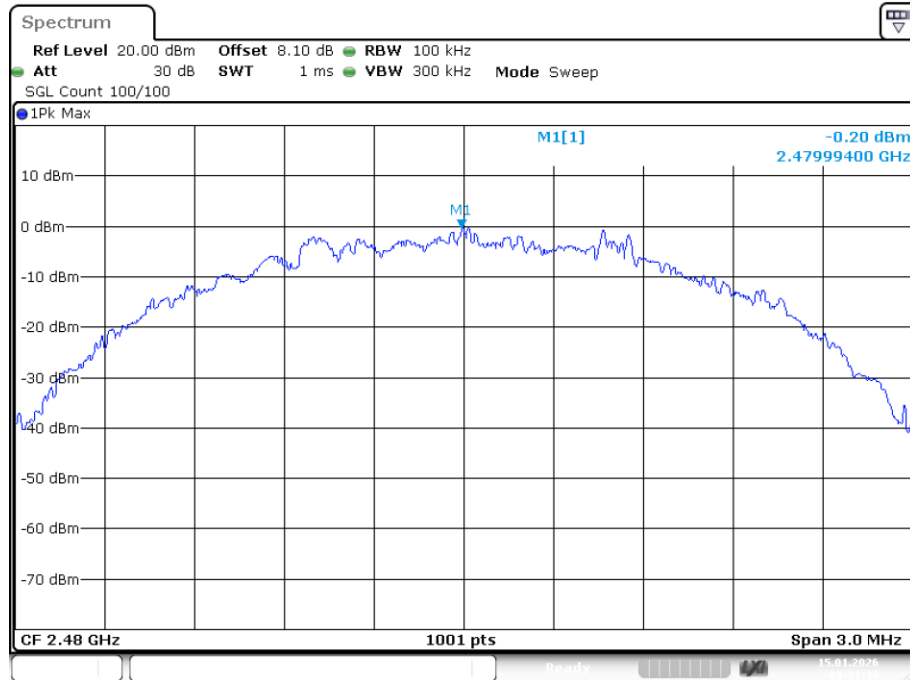
Date: 15.JAN.2026 09:29:40

Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



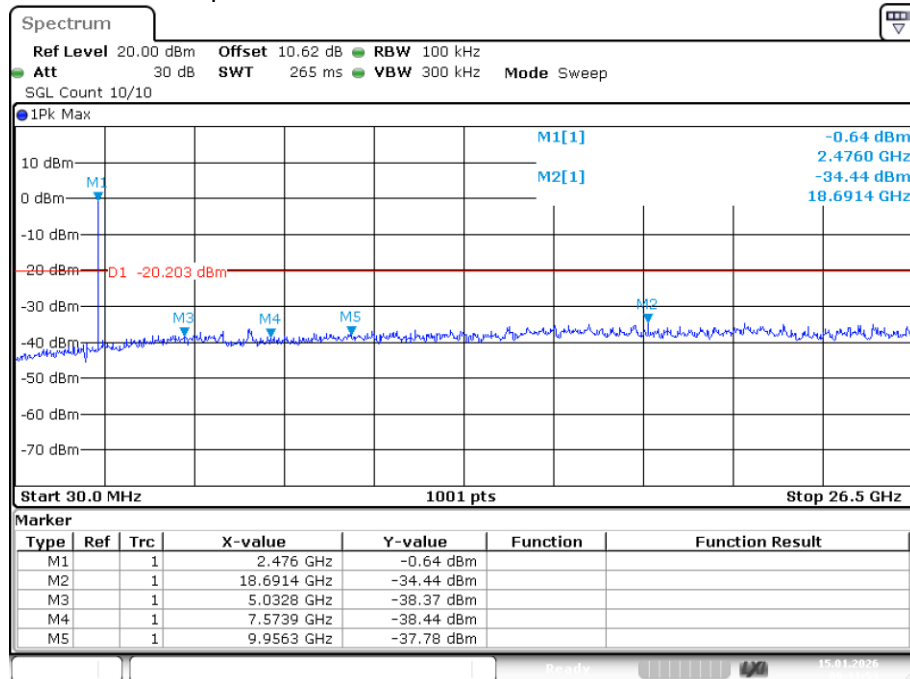
Date: 15.JAN.2026 09:29:59

Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Date: 15.JAN.2026 09:31:34

Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



Date: 15.JAN.2026 09:31:52

Note: offset=cable factor

5. POWER LINE CONDUCTED EMISSION

5.1. Test Limits

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

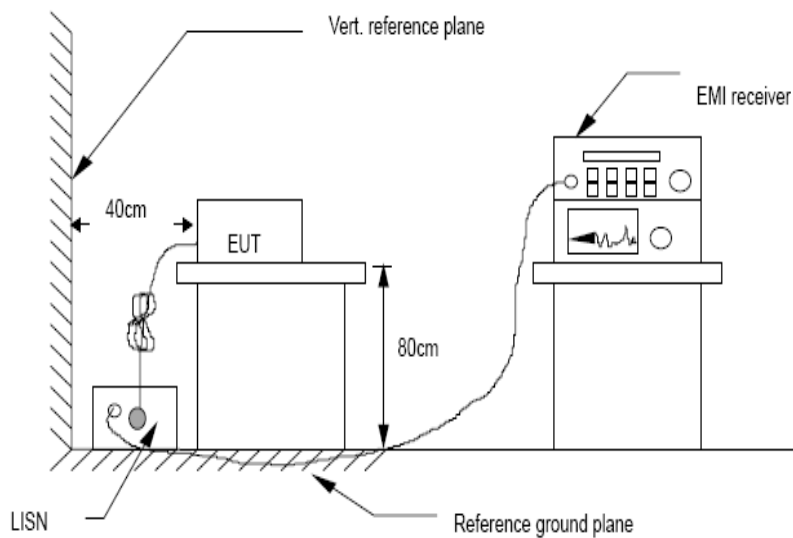
3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

5.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

5.3. Test Setup

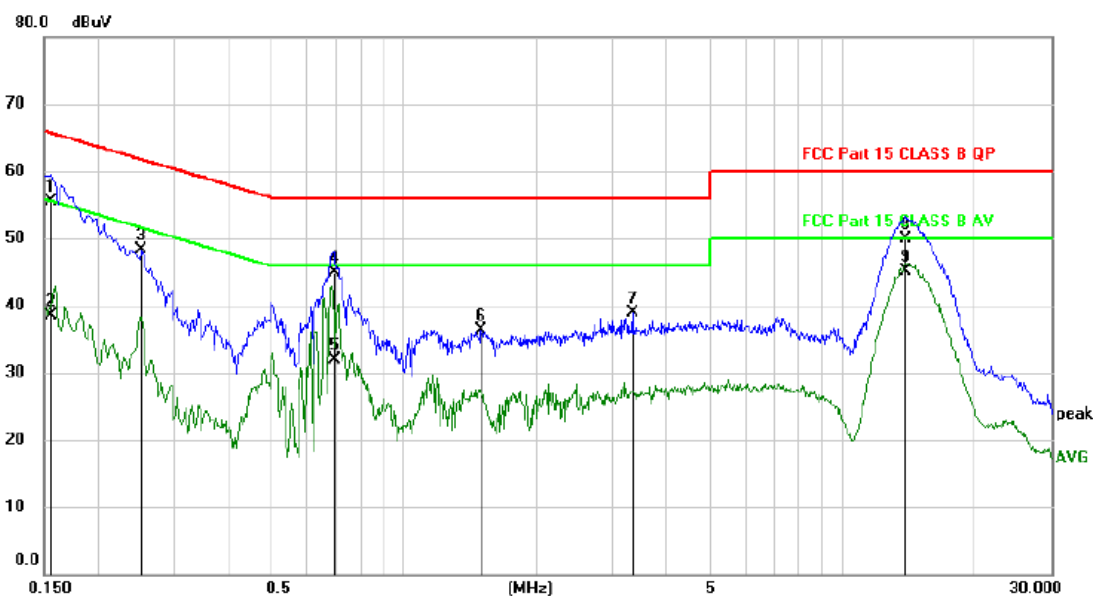


5.4. Test Results

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:

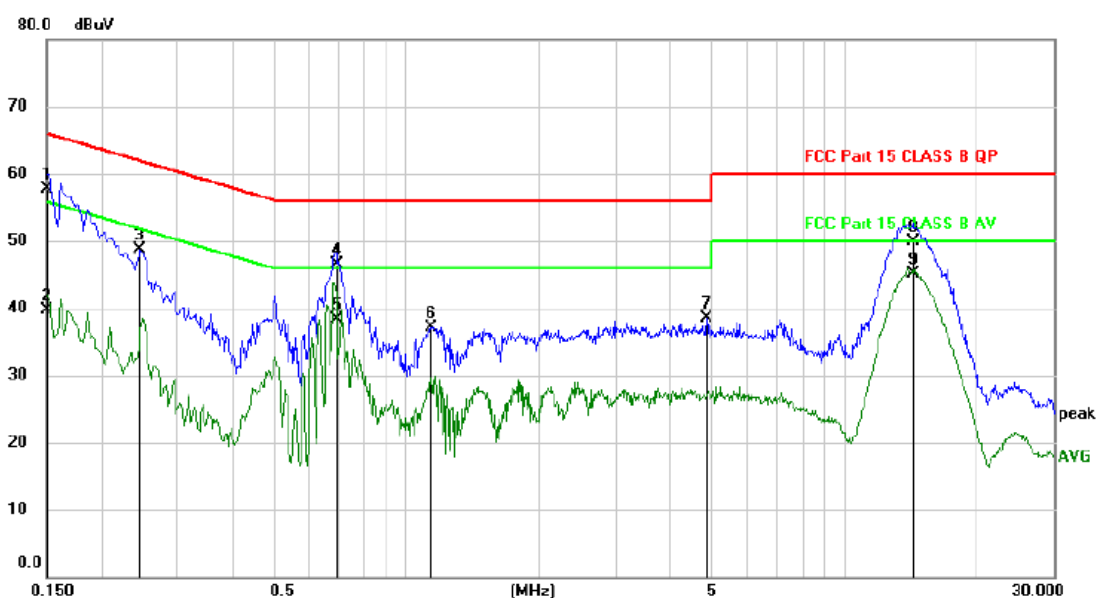


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1560	45.55	9.94	55.49	65.67	-10.18	QP	
2		0.1560	28.63	9.94	38.57	55.67	-17.10	AVG	
3		0.2519	38.42	9.97	48.39	61.69	-13.30	peak	
4		0.6930	34.92	9.93	44.85	56.00	-11.15	QP	
5		0.6930	21.95	9.93	31.88	46.00	-14.12	AVG	
6		1.5000	26.46	9.90	36.36	56.00	-19.64	peak	
7		3.3240	28.96	9.95	38.91	56.00	-17.09	peak	
8		13.9770	39.64	10.31	49.95	60.00	-10.05	QP	
9	*	13.9770	34.70	10.31	45.01	50.00	-4.99	AVG	

*: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

Neutral:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	47.67	9.94	57.61	66.00	-8.39	QP	
2	0.1500	29.75	9.94	39.69	56.00	-16.31	AVG	
3	0.2460	38.67	9.97	48.64	61.89	-13.25	peak	
4	0.6900	36.57	9.93	46.50	56.00	-9.50	QP	
5	0.6900	28.40	9.93	38.33	46.00	-7.67	AVG	
6	1.1370	27.21	9.90	37.11	56.00	-18.89	peak	
7	4.8270	28.56	10.02	38.58	56.00	-17.42	peak	
8	14.3190	39.66	10.31	49.97	60.00	-10.03	QP	
9 *	14.3190	34.87	10.31	45.18	50.00	-4.82	AVG	

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

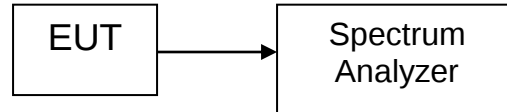
(Reference Only)

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

Note: All modes and channels have been tested and only the GFSK 2440MHz (1Mbps) mode with the worst data is listed.

6. DUTY CYCLE

6.1. Block diagram of test setup



6.2. Test Procedure

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

6.2.1 A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

6.2.2 The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

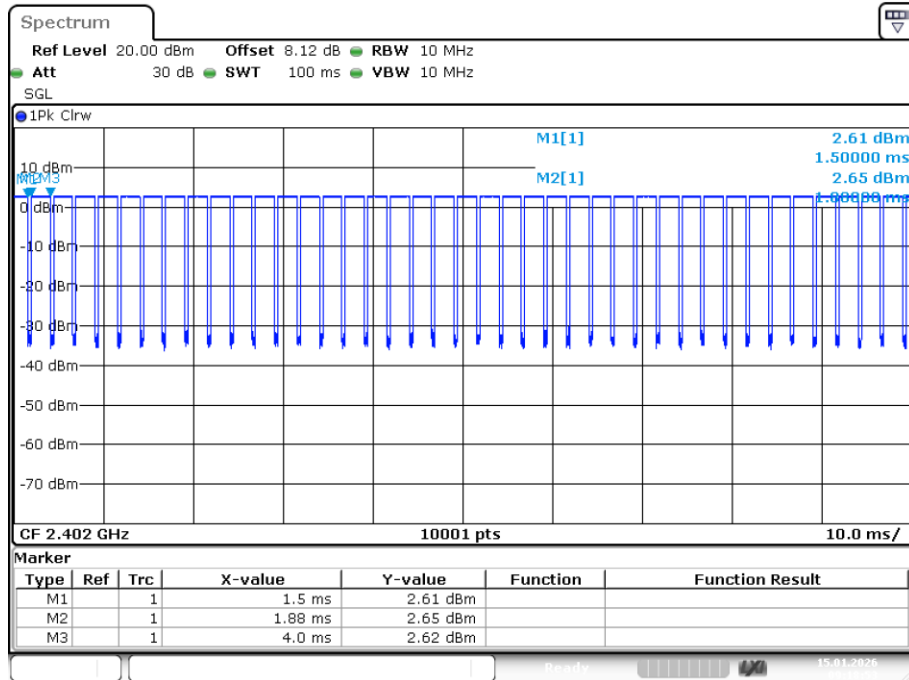
- a) Set the center frequency of the instrument to the center frequency of the transmission.
- b) Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.
- c) Set VBW $\geq$ RBW. Set detector = peak or average.
- d) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7$ us.)

6.3. Test Results

Pass

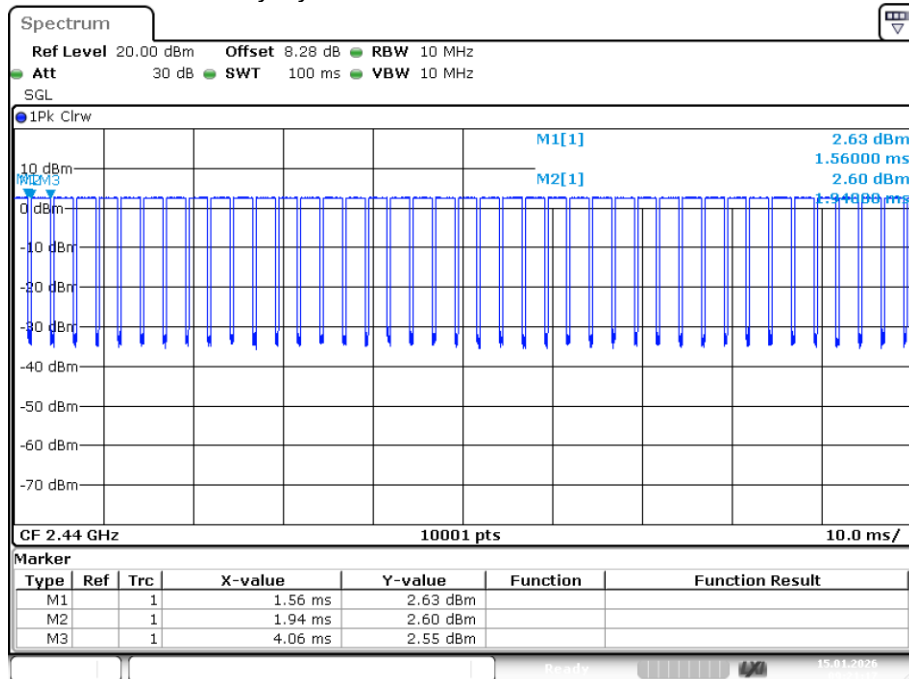
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 1M	2402	Ant1	84.8	0.72
NVNT	BLE 1M	2440	Ant1	84.8	0.72
NVNT	BLE 1M	2480	Ant1	84.8	0.72

Duty Cycle NVNT BLE 1M 2402MHz Ant1



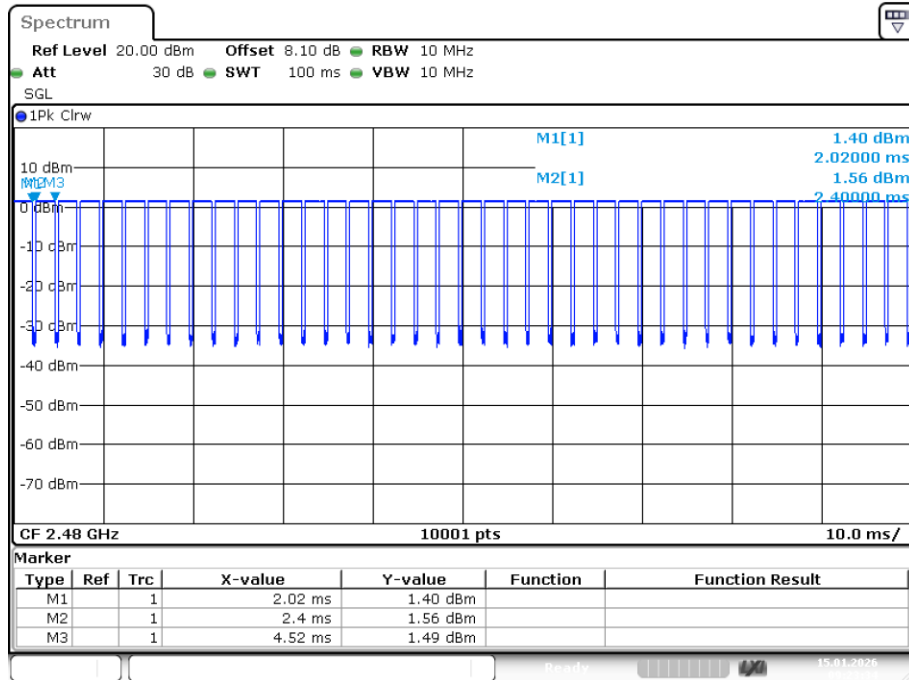
Date: 15.JAN.2026 09:18:53

Duty Cycle NVNT BLE 1M 2440MHz Ant1



Date: 15.JAN.2026 09:21:16

Duty Cycle NVNT BLE 1M 2480MHz Ant1

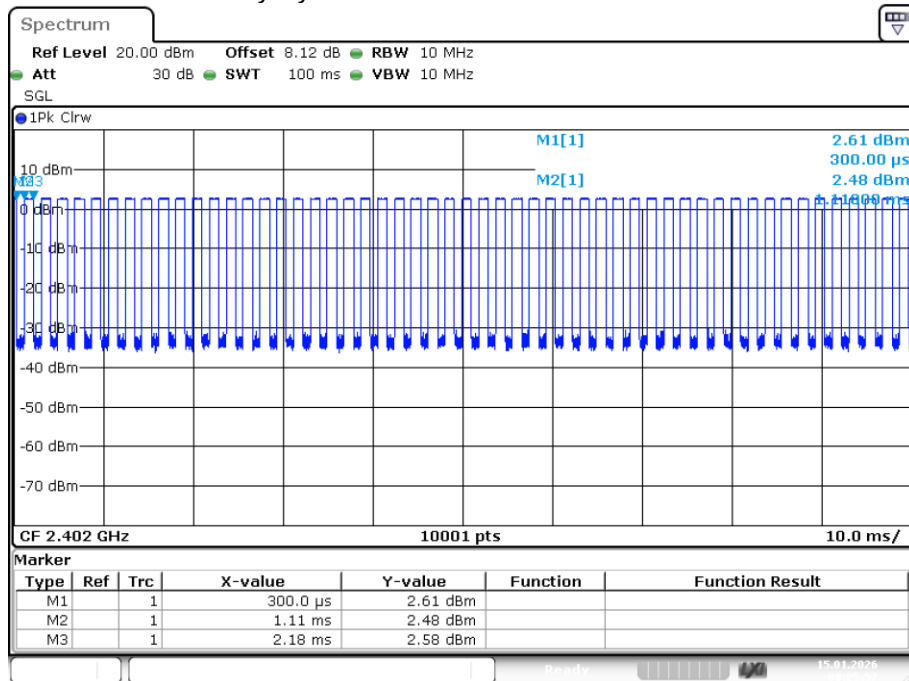


Date: 15.JAN.2026 09:23:34

Note: offset=cable factor

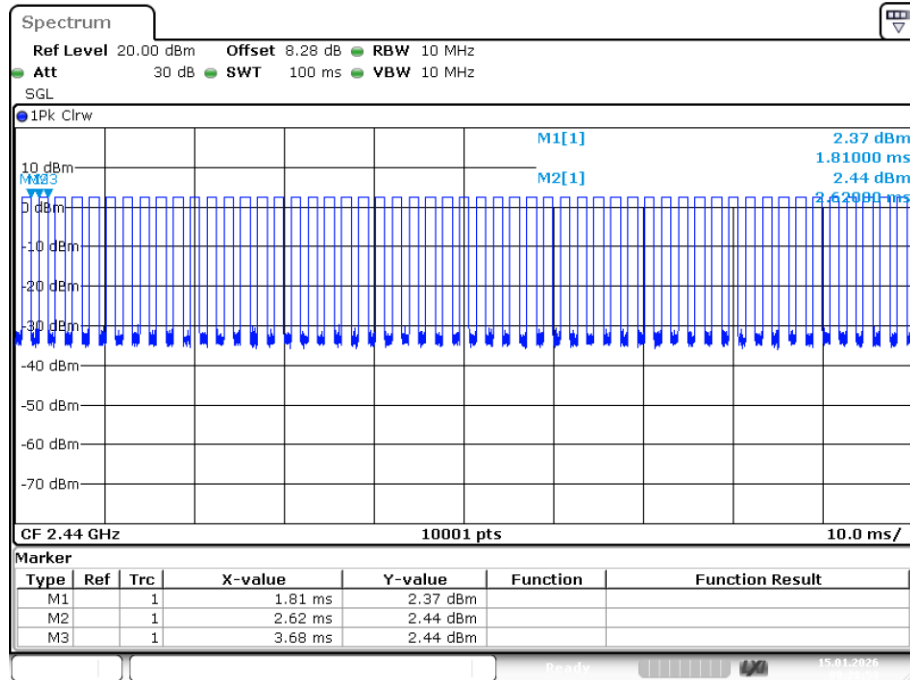
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	BLE 2M	2402	Ant1	56.91	2.45
NVNT	BLE 2M	2440	Ant1	56.68	2.47
NVNT	BLE 2M	2480	Ant1	56.68	2.47

Duty Cycle NVNT BLE 2M 2402MHz Ant1



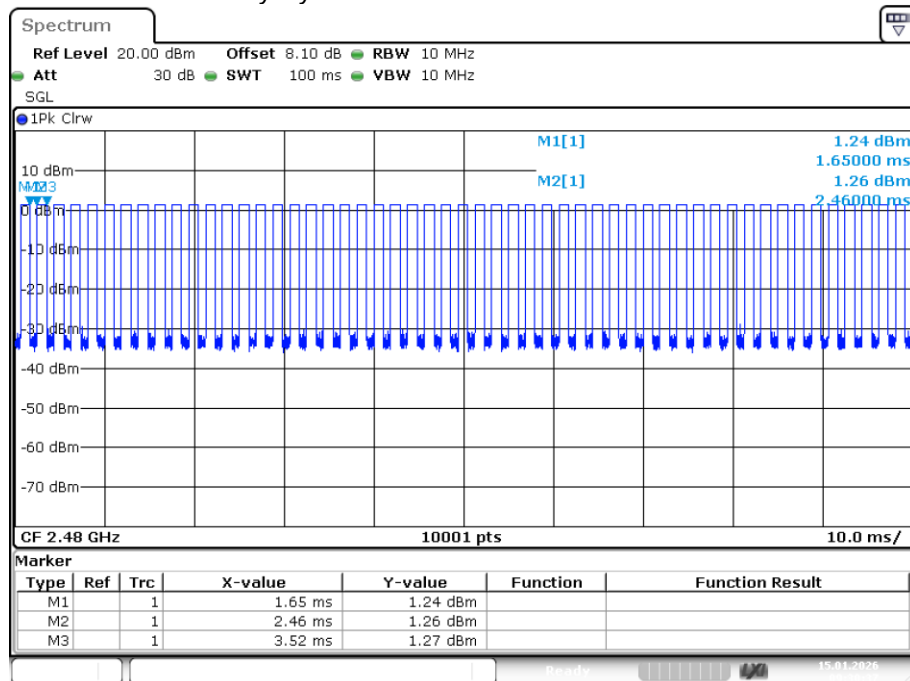
Date: 15.JAN.2026 09:25:57

Duty Cycle NVNT BLE 2M 2440MHz Ant1



Date: 15.JAN.2026 09:28:52

Duty Cycle NVNT BLE 2M 2480MHz Ant1



Date: 15.JAN.2026 09:30:36

Note: offset=cable factor

7. CONDUCTED MAXIMUM OUTPUT POWER

7.1. Test limits

Please refer section RSS-247 & 15.247.

Regulation 15.247(b) The limit of Maximum Peak conducted output power Measurement is 1W(30dBm). The e.i.r.p. shall not exceed 4 W(36dBm).

7.2. Test Procedure

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

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

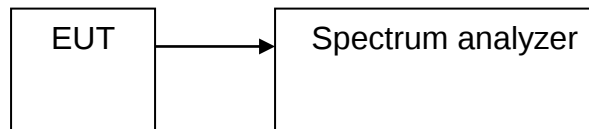
7.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3 This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Set the spectrum analyzer as $RBW \geq DTS \text{ bandwidth}$, $VBW \geq 3 \times RBW$, $span \geq 3 \times RBW$, sweep time = auto couple, detector = peak, trace mode = max hold, allow trace to fully stabilize, use peak marker function to determine the peak amplitude level

7.2.4 Measure out each mode and each bands peak output power of EUT.

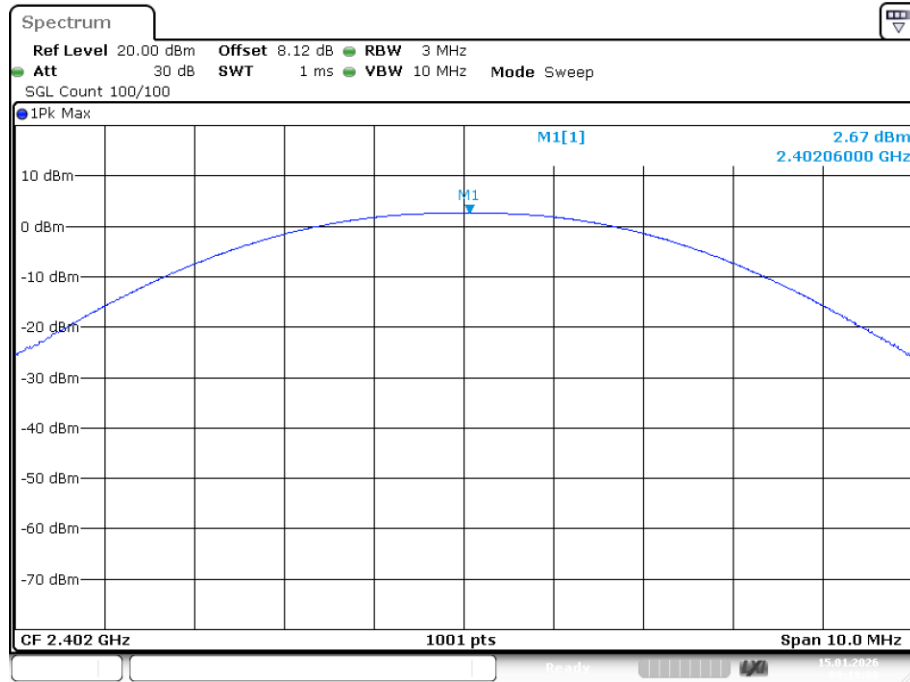
7.3. Test Setup



7.4. Test Results

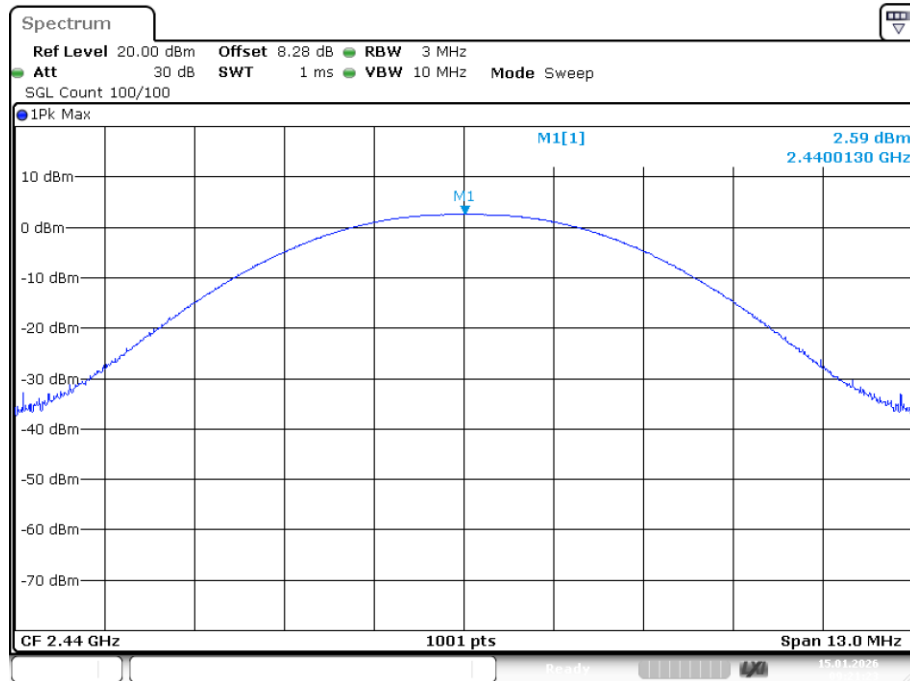
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	Ant1	2.669	30	Pass
BLE 1M	2440	Ant1	2.587	30	Pass
BLE 1M	2480	Ant1	1.477	30	Pass

Power NVNT BLE 1M 2402MHz Ant1



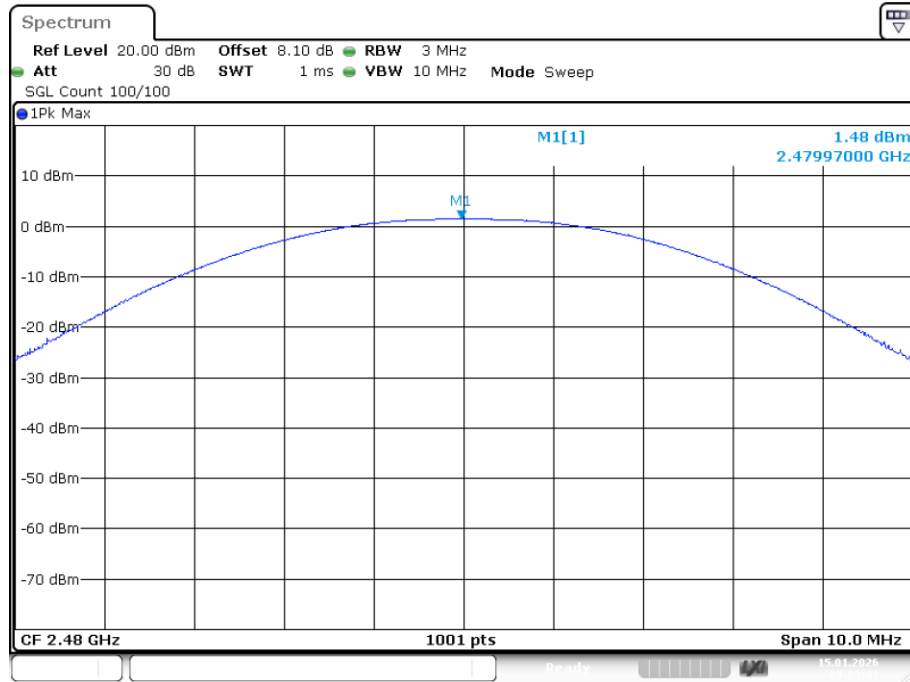
Date: 15.JAN.2026 09:19:00

Power NVNT BLE 1M 2440MHz Ant1



Date: 15.JAN.2026 09:21:23

Power NVNT BLE 1M 2480MHz Ant1

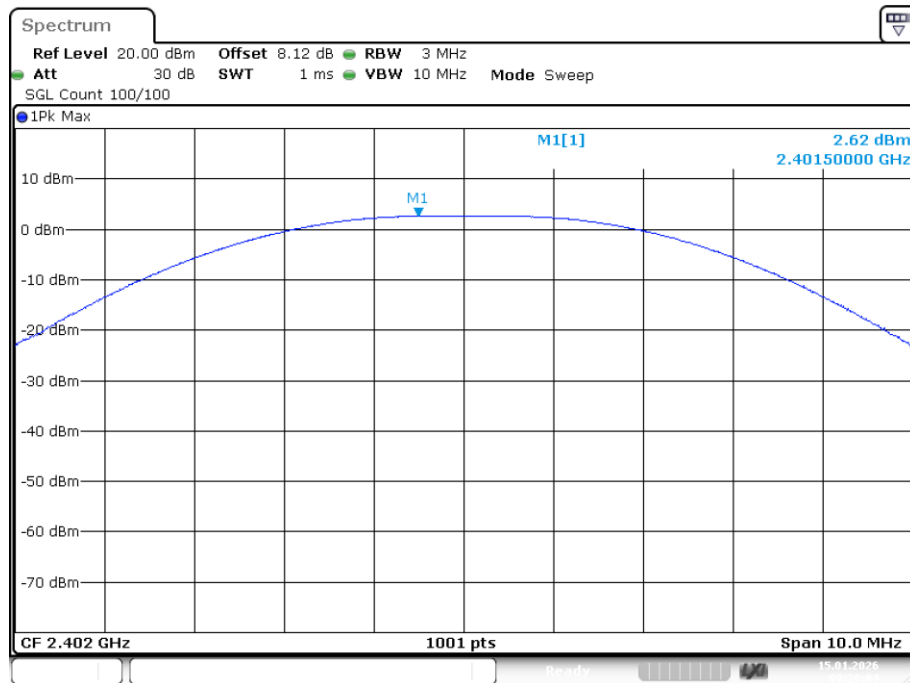


Date: 15.JAN.2026 09:23:41

Note: offset=cable factor

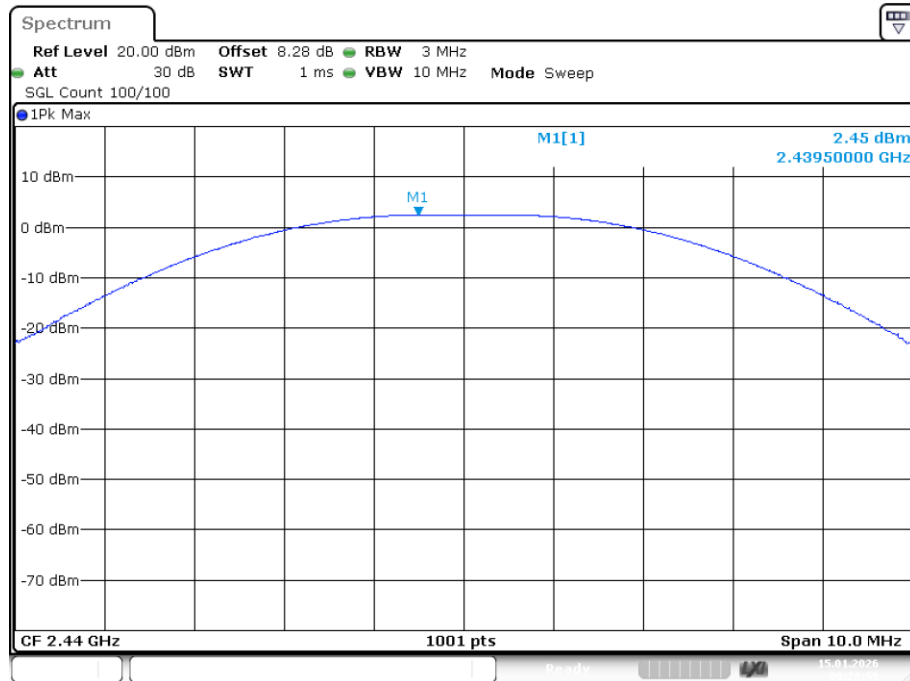
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 2M	2402	Ant1	2.615	30	Pass
BLE 2M	2440	Ant1	2.454	30	Pass
BLE 2M	2480	Ant1	1.328	30	Pass

Power NVNT BLE 2M 2402MHz Ant1



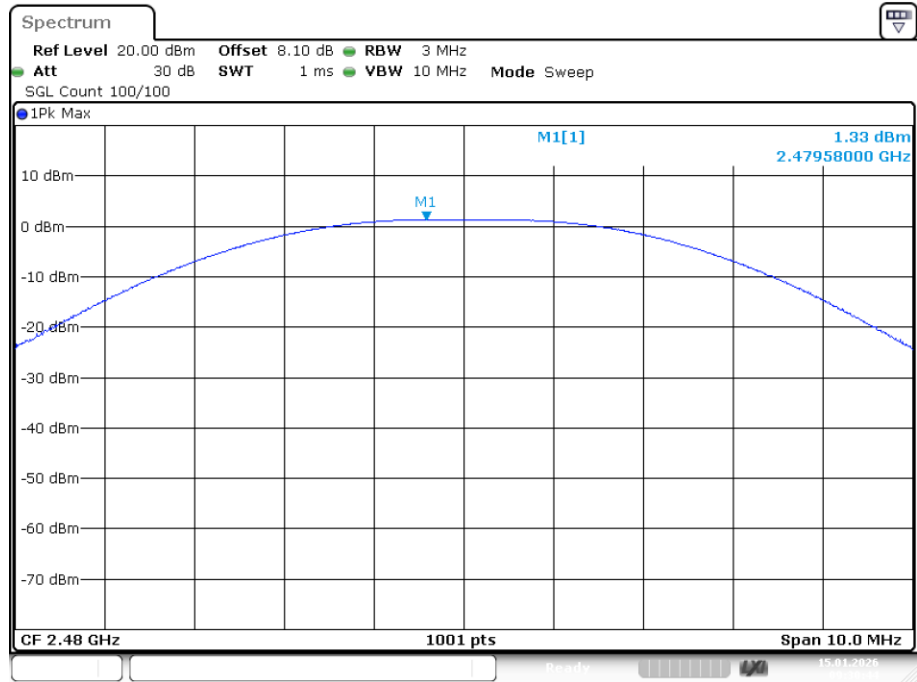
Date: 15.JAN.2026 09:26:04

Power NVNT BLE 2M 2440MHz Ant1



Date: 15.JAN.2026 09:28:59

Power NVNT BLE 2M 2480MHz Ant1



Date: 15.JAN.2026 09:30:43

Note: offset=cable factor

8. PEAK POWER SPECTRAL DENSITY

8.1. Test limits

8.1.1 Please refer section RSS-247 & 15.247.

8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

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

8.2. Test Procedure

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

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

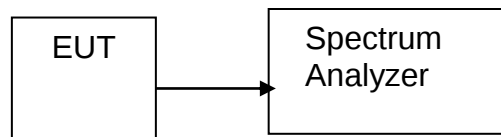
8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.), VBW = 10kHz(Set the VBW $\geq 3 \times \text{RBW}$), span $\geq 1.5 \times \text{DTS bandwidth}$, detector = peak, trace mode = max hold. Allow trace to fully stabilize, use the peak marker function to determine the maximum power level, if measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat, the resulting peak PSD level shall not be greater than 8 dBm in any 3 kHz band, detail see the test plot.

8.2.4 Record the max reading.

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

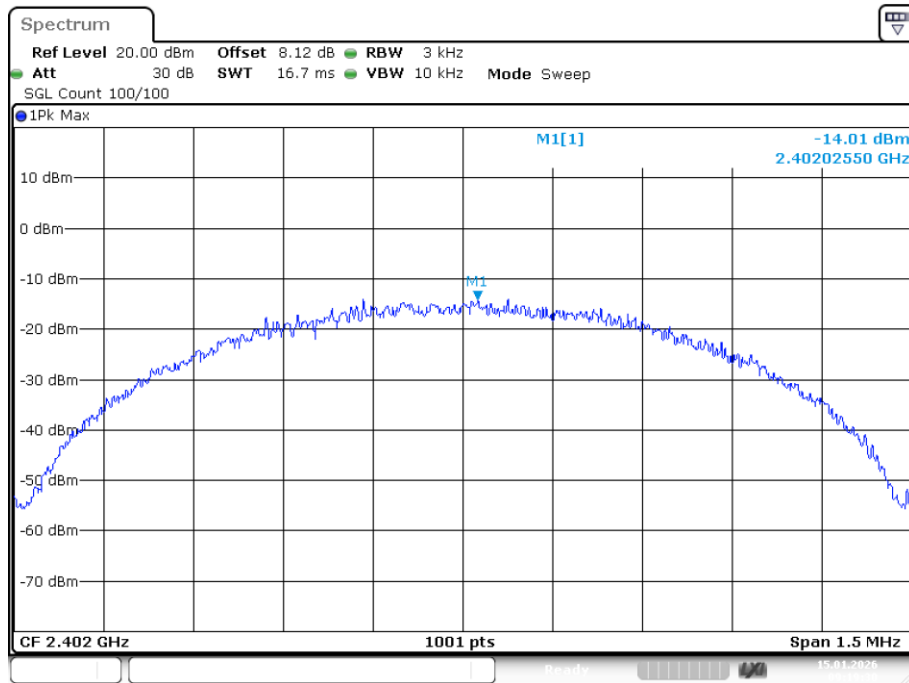
8.3. Test Setup



8.4. Test Results

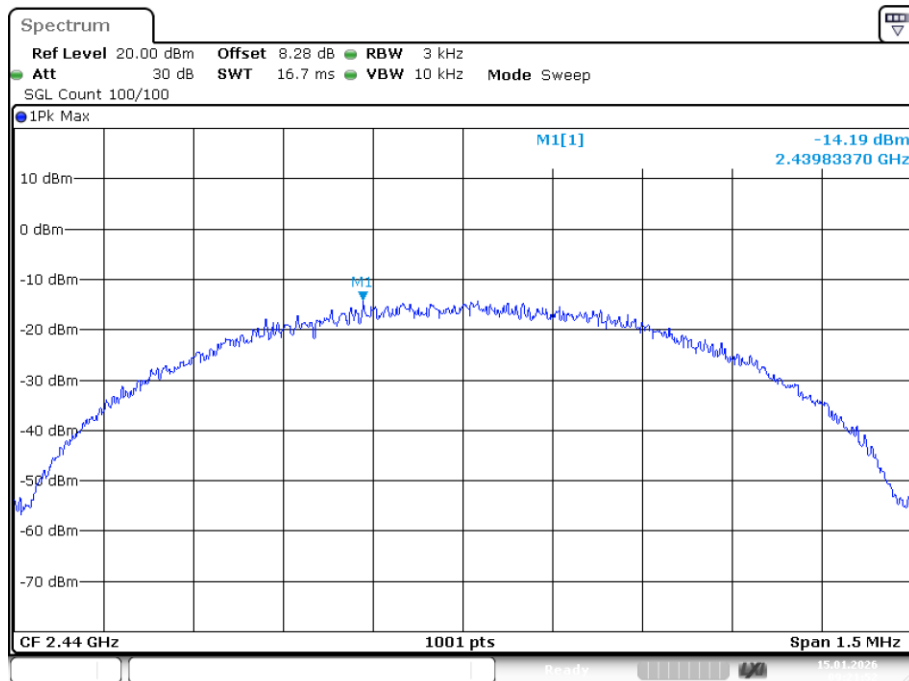
Condition	Mode	Frequency (MHz)	Antenna	Max PSD(dBm/3KHz)	Limit (dBm)	Verdict
NVNT	1M	2402	Ant1	-14.009	8	Pass
NVNT	1M	2440	Ant1	-14.188	8	Pass
NVNT	1M	2480	Ant1	-15.195	8	Pass

PSD NVNT BLE 1M 2402MHz Ant1



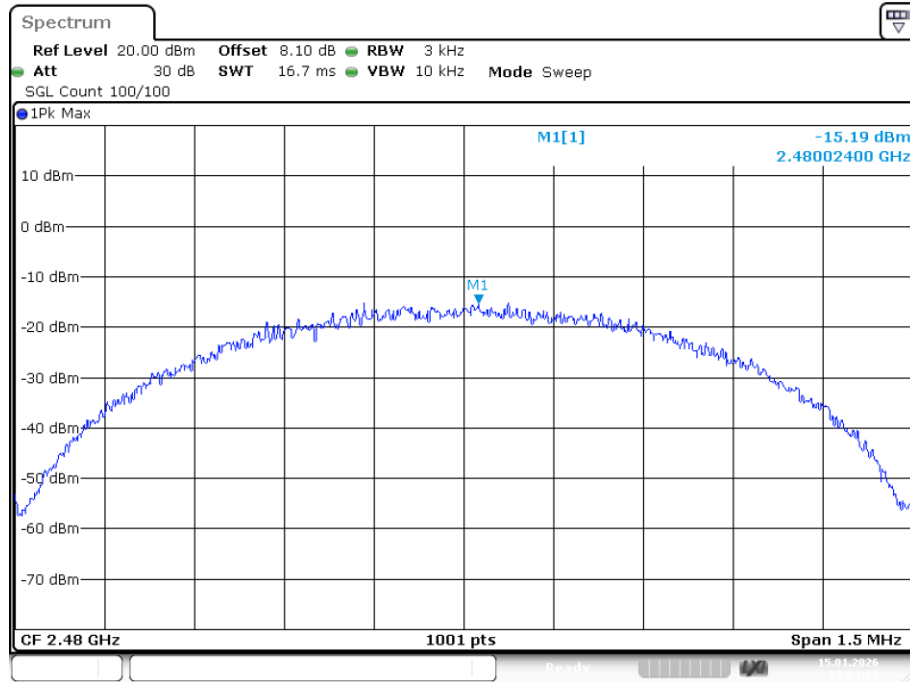
Date: 15.JAN.2026 09:19:30

PSD NVNT BLE 1M 2440MHz Ant1



Date: 15.JAN.2026 09:21:52

PSD NVNT BLE 1M 2480MHz Ant1

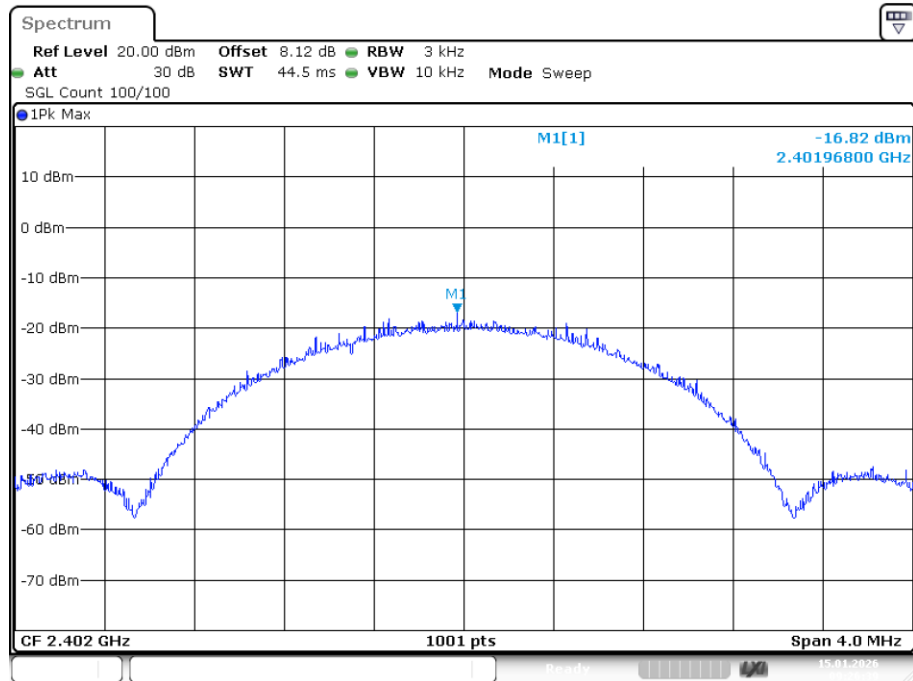


Date: 15.JAN.2026 09:24:09

Note: offset=cable factor

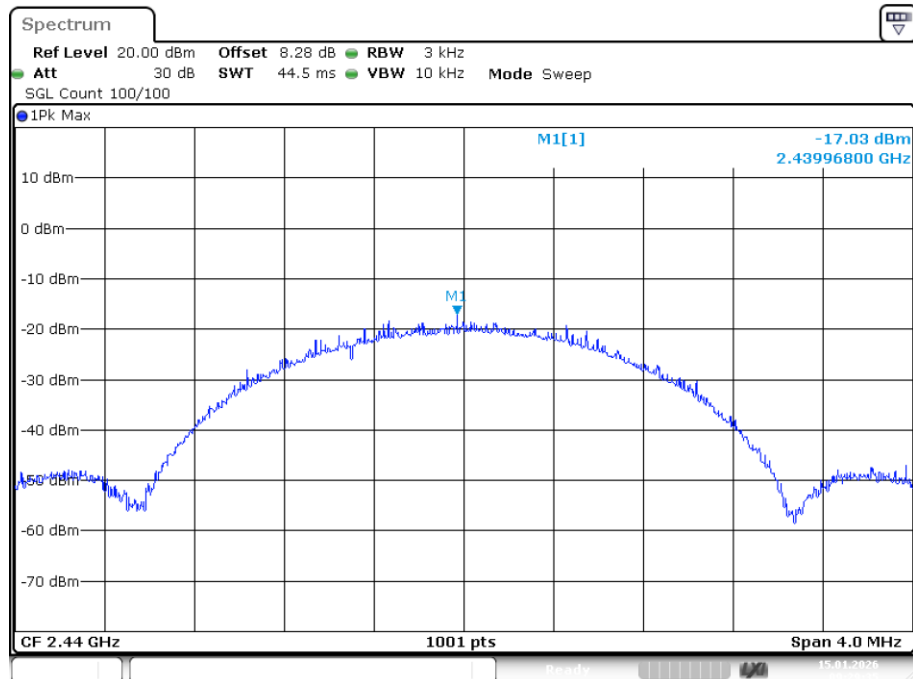
Condition	Mode	Frequency (MHz)	Antenna	Max PSD(dBm/3KHz)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-16.82	8	Pass
NVNT	BLE 2M	2440	Ant1	-17.033	8	Pass
NVNT	BLE 2M	2480	Ant1	-18.32	8	Pass

PSD NVNT BLE 2M 2402MHz Ant1



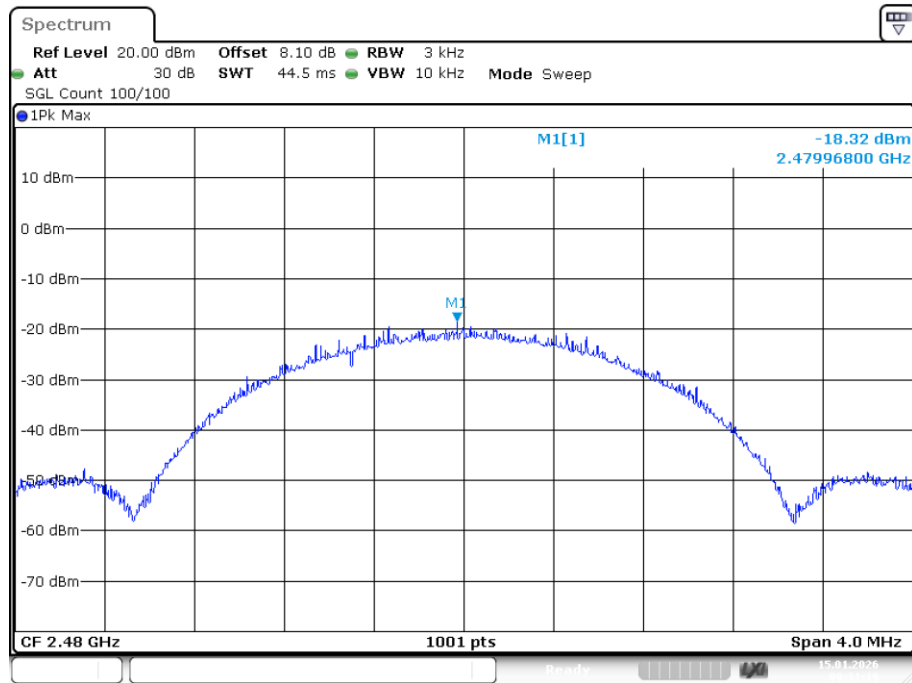
Date: 15.JAN.2026 09:26:39

PSD NVNT BLE 2M 2440MHz Ant1



Date: 15.JAN.2026 09:29:35

PSD NVNT BLE 2M 2480MHz Ant1



Date: 15.JAN.2026 09:31:19

Note: offset=cable factor

9. BANDWIDTH

9.1. Test limits

Please refer section RSS-247 & 15.247

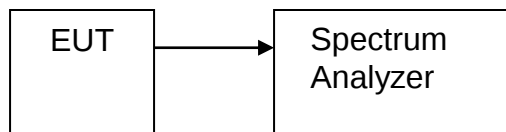
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

9.2. Test Procedure

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

- a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set $RBW = 1-5\%BW$, $VBW \geq 3*RBW$, Sweep time set auto, detail see the test plot for 99% Bandwidth.
- c) The test receiver set $RBW = 100kHz$, $VBW \geq 3*RBW = 300kHz$, Sweep time set auto, detail see the test plot for 6dB Bandwidth.

9.3. Test Setup



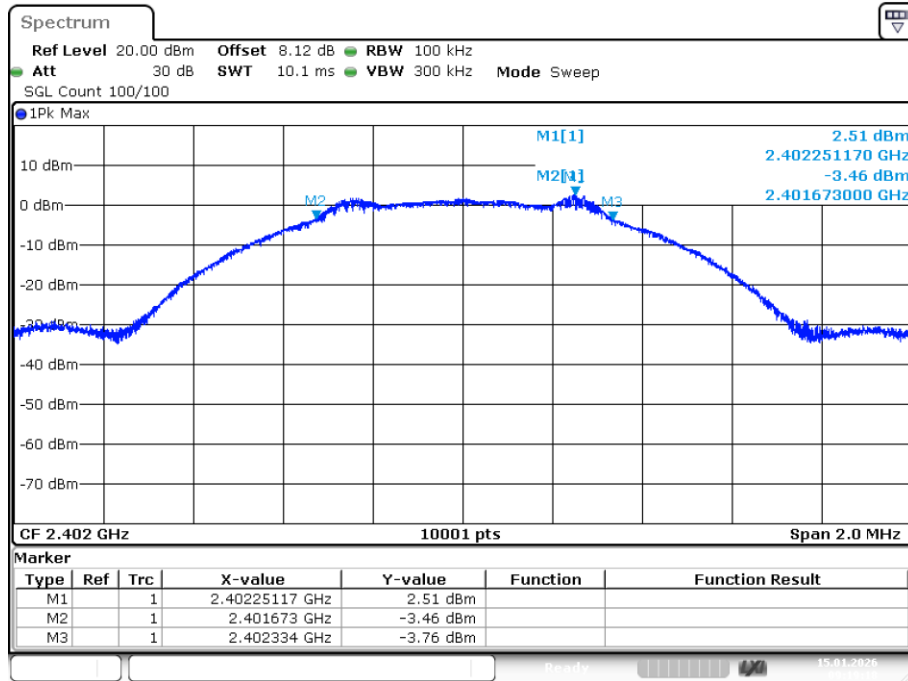
9.4. Test Results

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.661	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.662	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.659	0.5	Pass

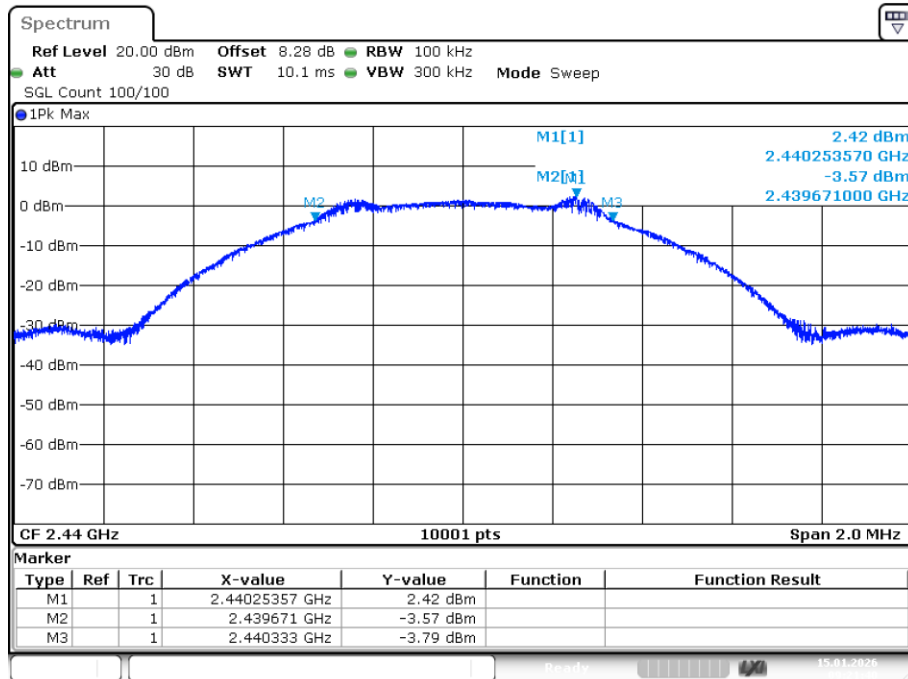
Note: -6 dB Bandwidth (MHz) = Mark 3 (MHz) - Mark 2 (MHz)

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



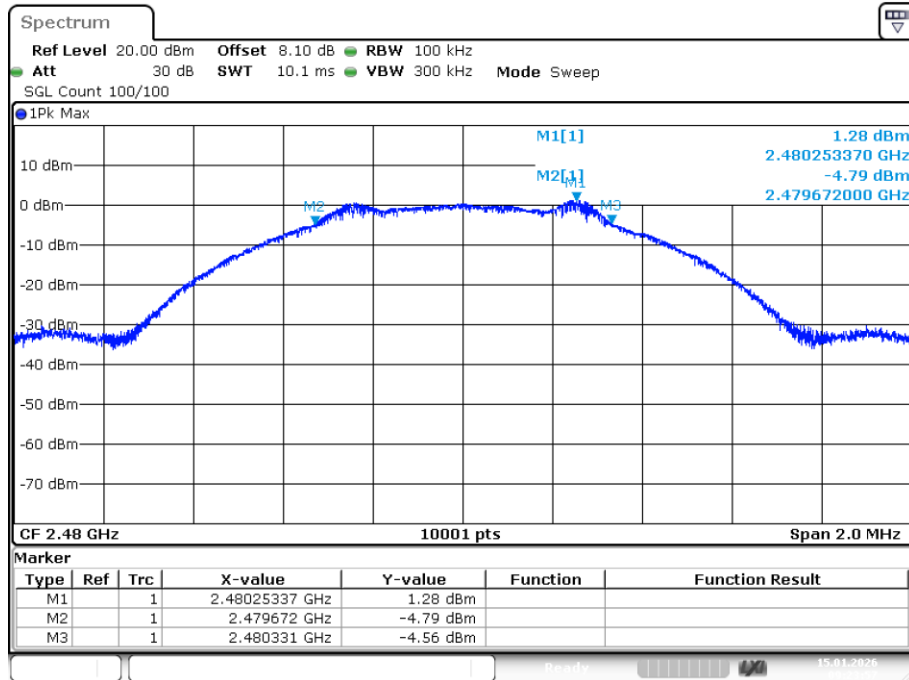
Date: 15.JAN.2026 09:19:17

-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



Date: 15.JAN.2026 09:21:40

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



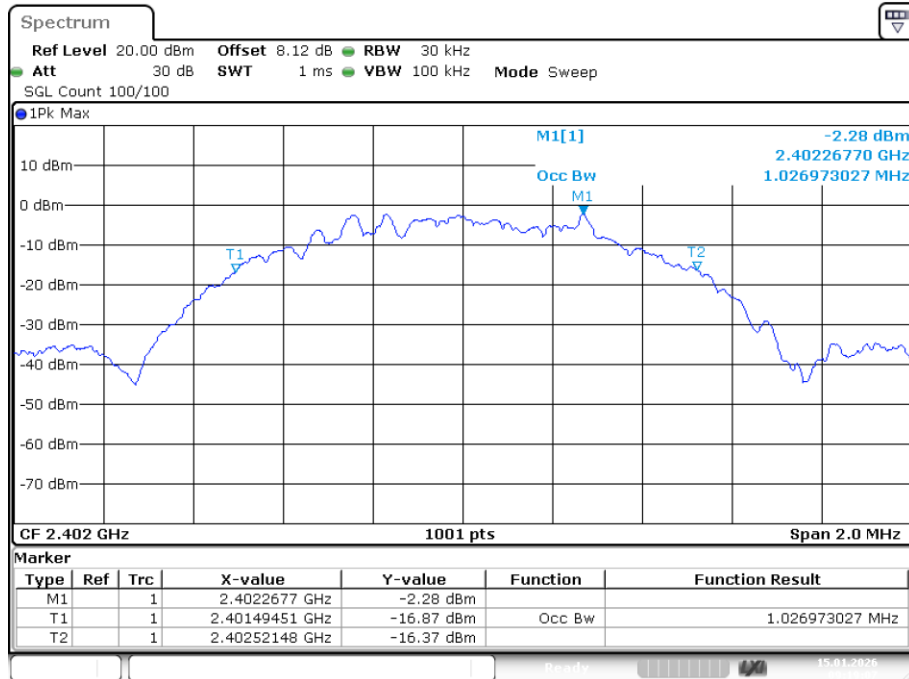
Date: 15.JAN.2026 09:23:57

Note: offset=cable factor

Occupied Channel Bandwidth

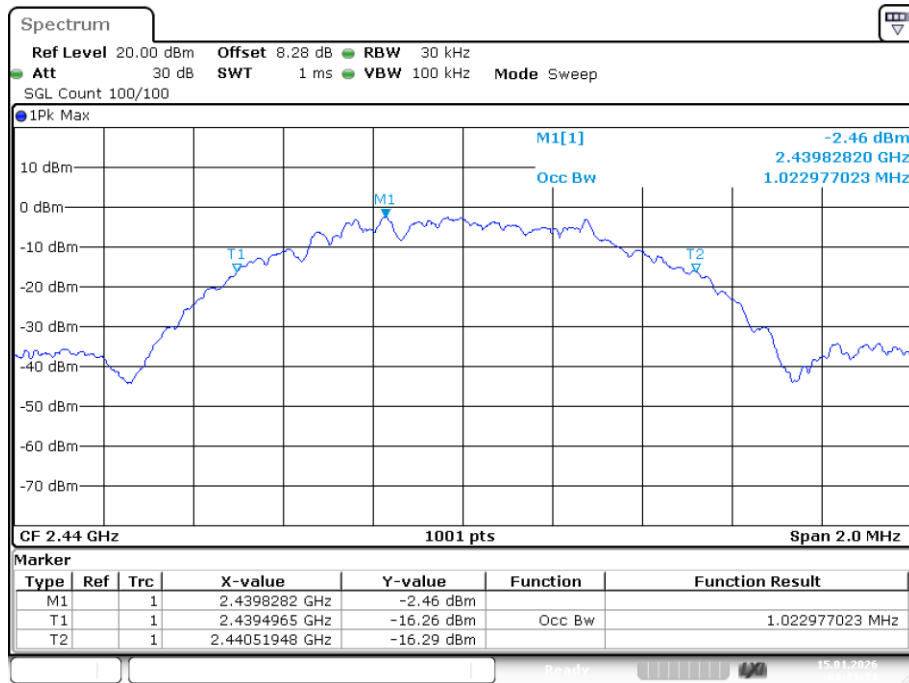
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.027
NVNT	BLE 1M	2440	Ant1	1.023
NVNT	BLE 1M	2480	Ant1	1.019

OBW NVNT BLE 1M 2402MHz Ant1



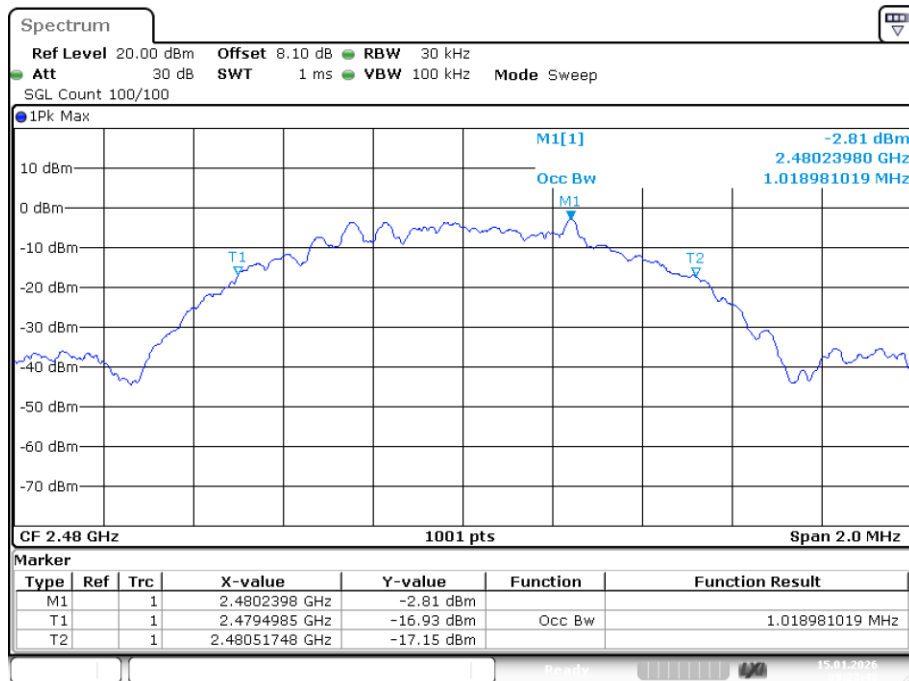
Date: 15.JAN.2026 09:19:07

OBW NVNT BLE 1M 2440MHz Ant1



Date: 15.JAN.2026 09:21:30

OBW NVNT BLE 1M 2480MHz Ant1



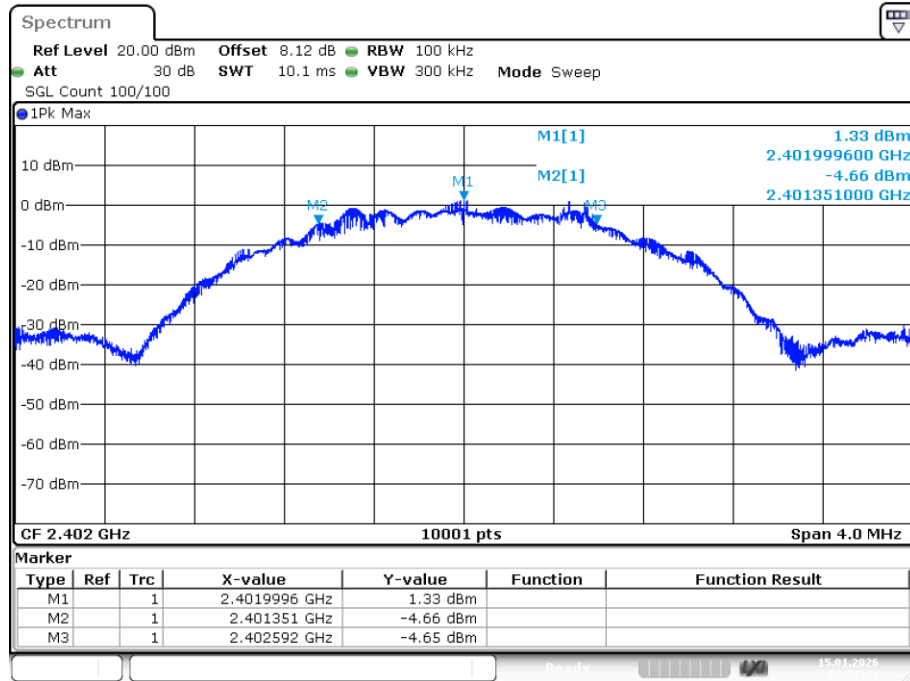
Date: 15.JAN.2026 09:23:48

Note: offset=cable factor

-6dB Bandwidth

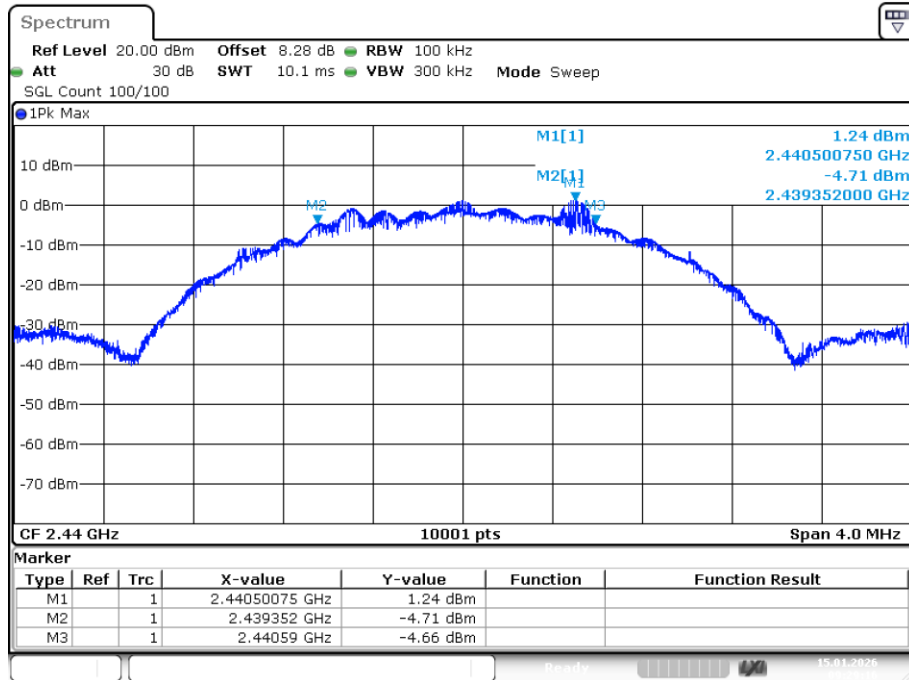
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.241	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.238	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.24	0.5	Pass

Note: -6 dB Bandwidth (MHz) = Mark 3 (MHz) - Mark 2 (MHz)

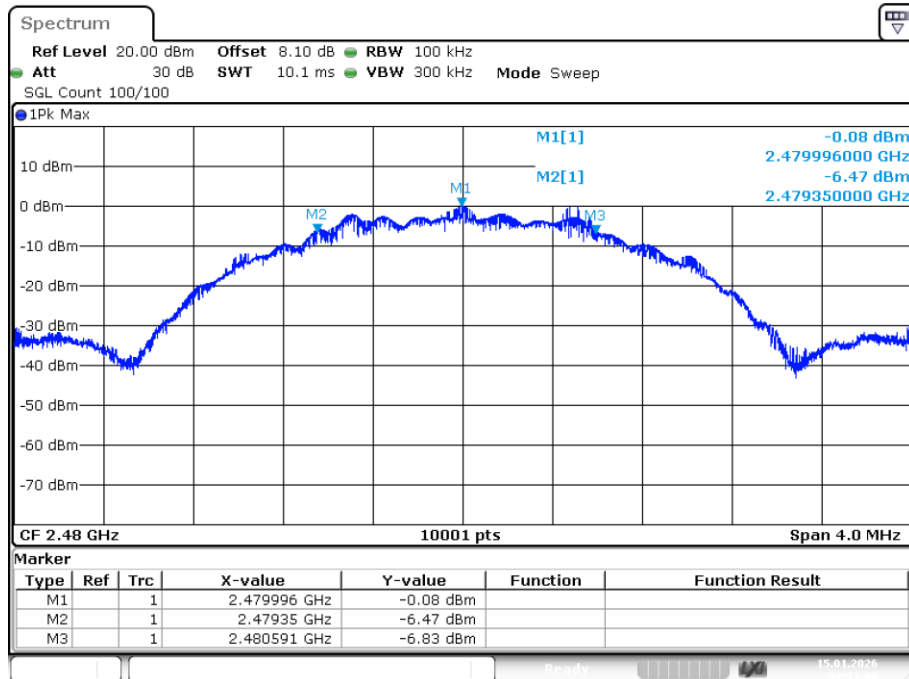
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

Date: 15.JAN.2026 09:26:21

-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



Date: 15.JAN.2026 09:29:16

-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

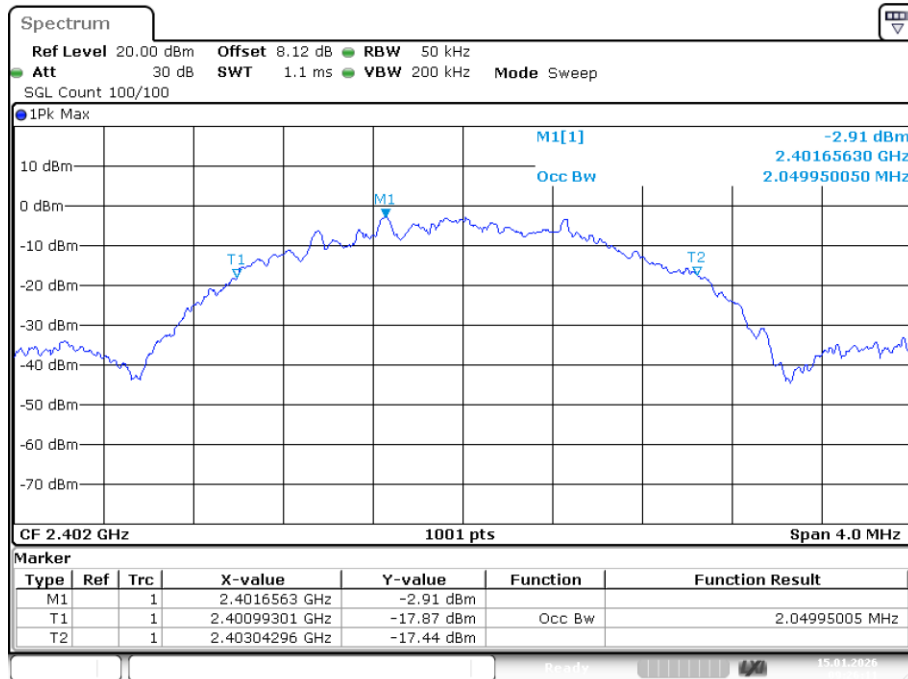
Date: 15.JAN.2026 09:31:00

Note: offset=cable factor

Occupied Channel Bandwidth

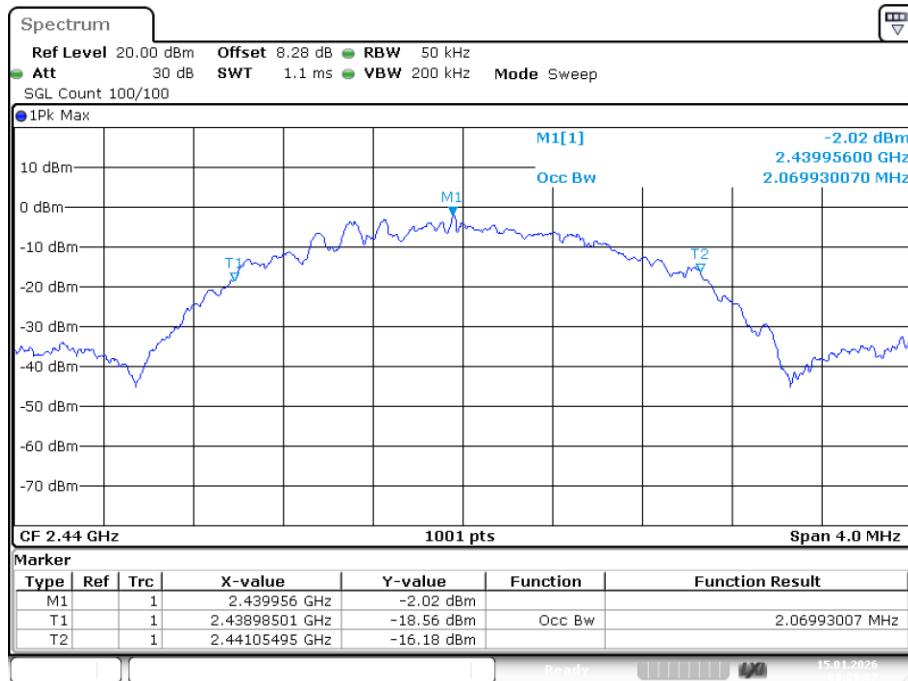
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.05
NVNT	BLE 2M	2440	Ant1	2.07
NVNT	BLE 2M	2480	Ant1	2.058

OBW NVNT BLE 2M 2402MHz Ant1



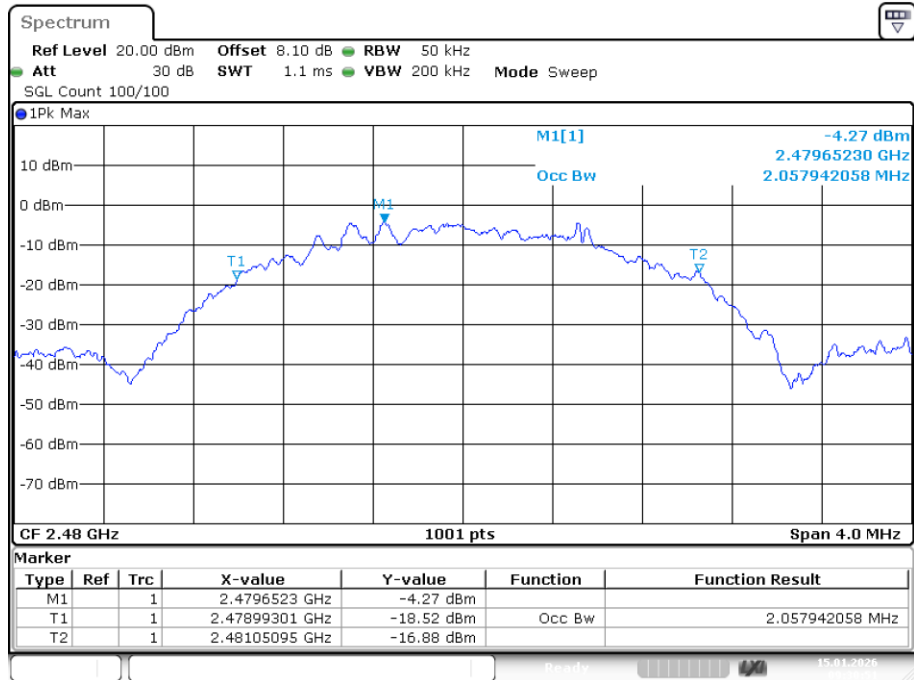
Date: 15.JAN.2026 09:26:11

OBW NVNT BLE 2M 2440MHz Ant1



Date: 15.JAN.2026 09:29:06

OBW NVNT BLE 2M 2480MHz Ant1



Date: 15.JAN.2026 09:30:50

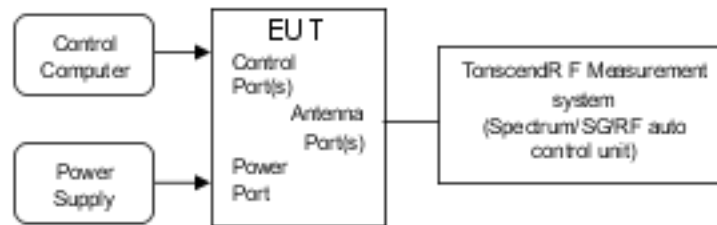
Note: offset=cable factor

10. BAND EDGE (CONDUCTED)

10.1. Test limits

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

10.2. Block diagram of test setup



10.3. Test Procedure

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

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

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

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

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

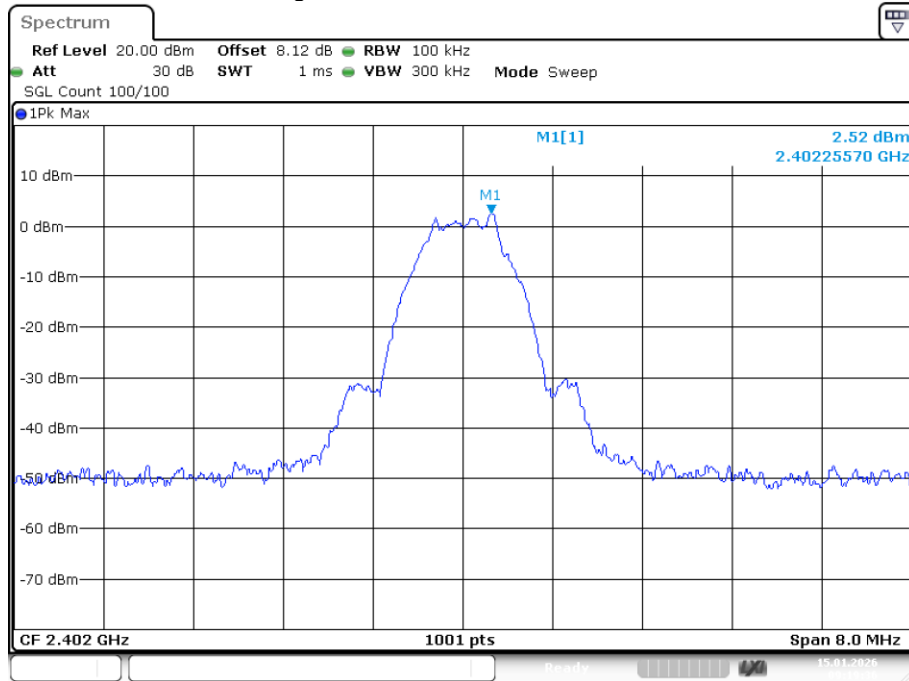
10.3.5. Repeat above procedures until all frequency measured were complete.

10.4. Test Results

Pass

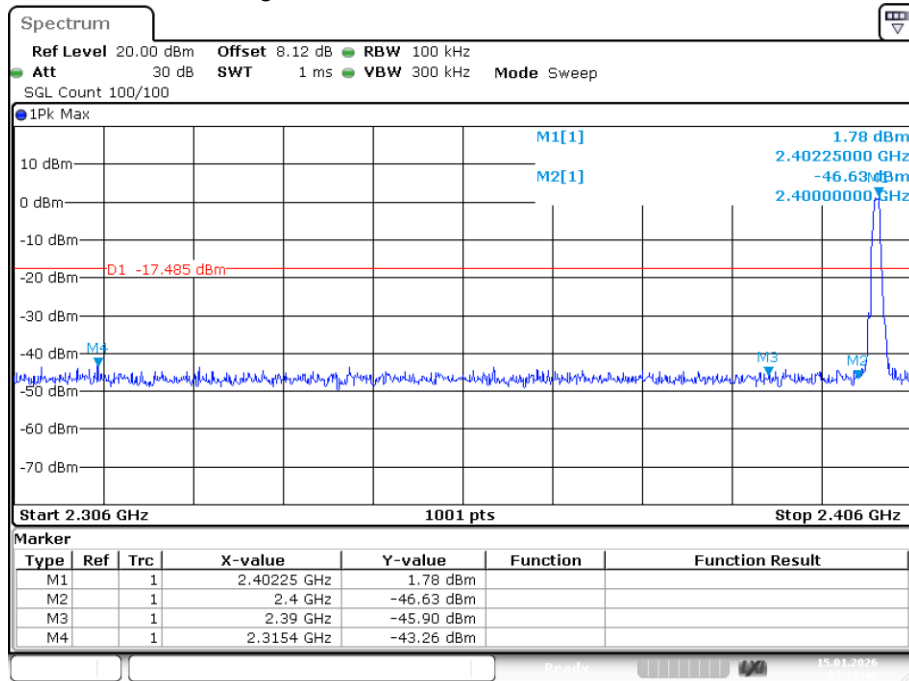
The test results are listed in next pages.

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



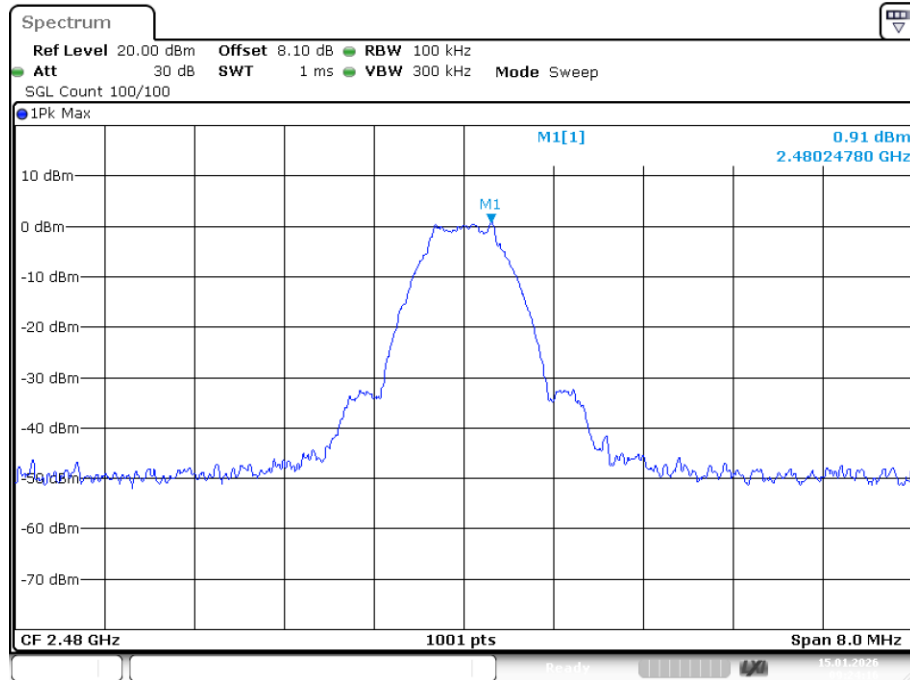
Date: 15.JAN.2026 09:19:36

Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



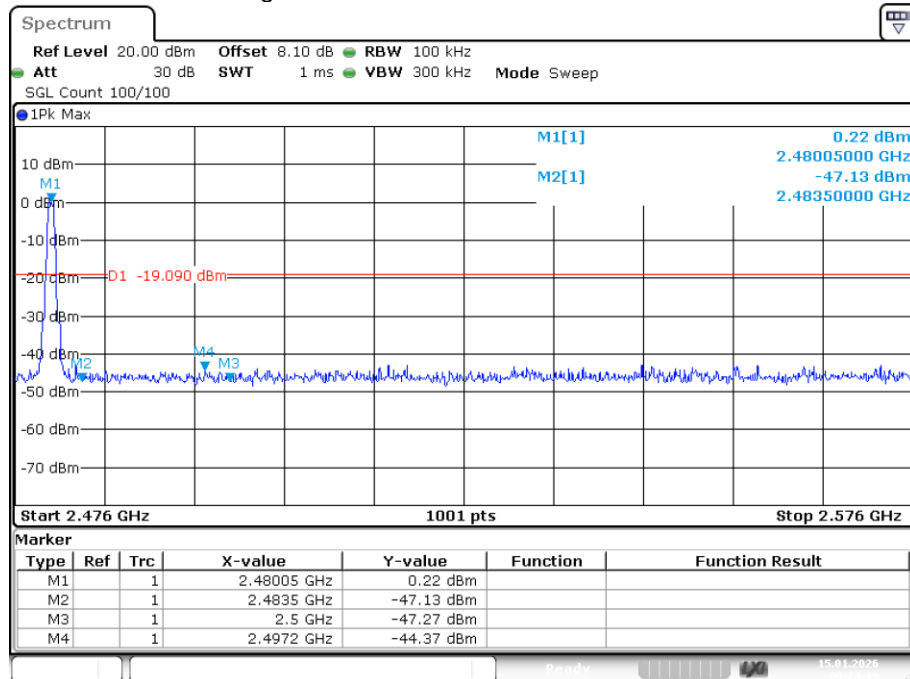
Date: 15.JAN.2026 09:19:40

Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



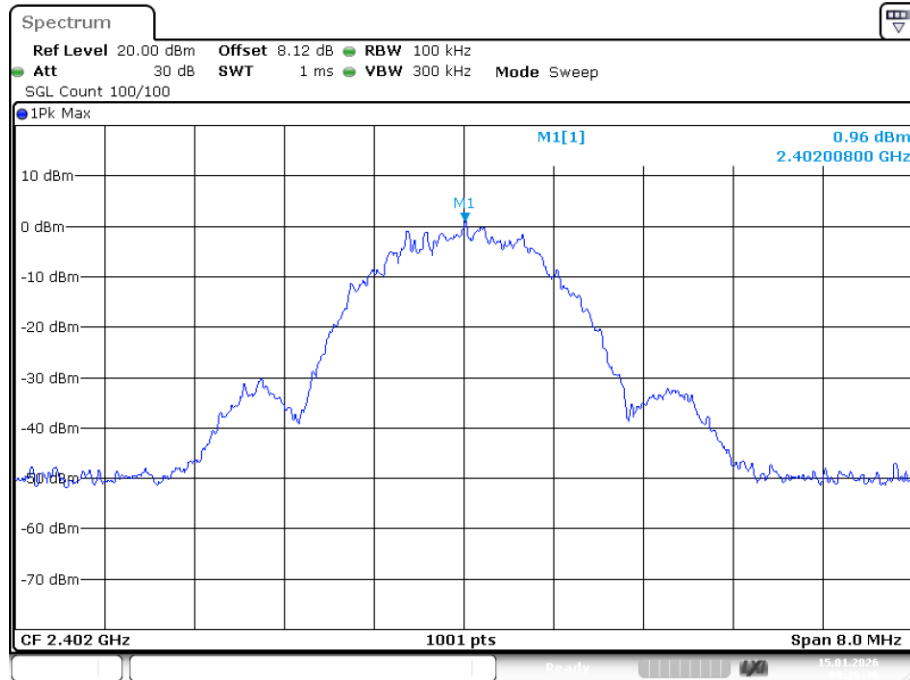
Date: 15.JAN.2026 09:24:15

Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



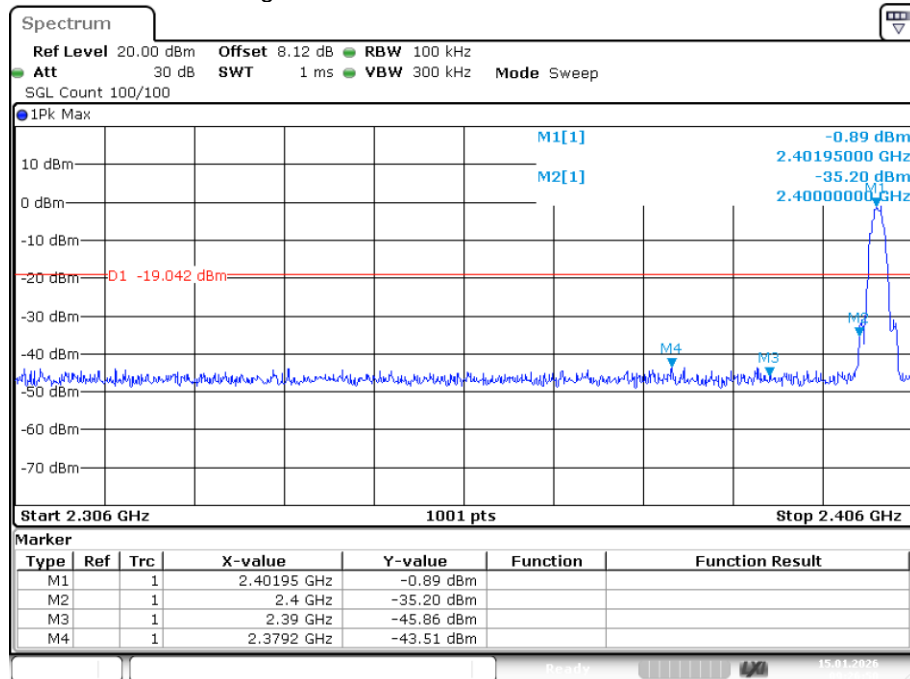
Date: 15.JAN.2026 09:24:19

Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



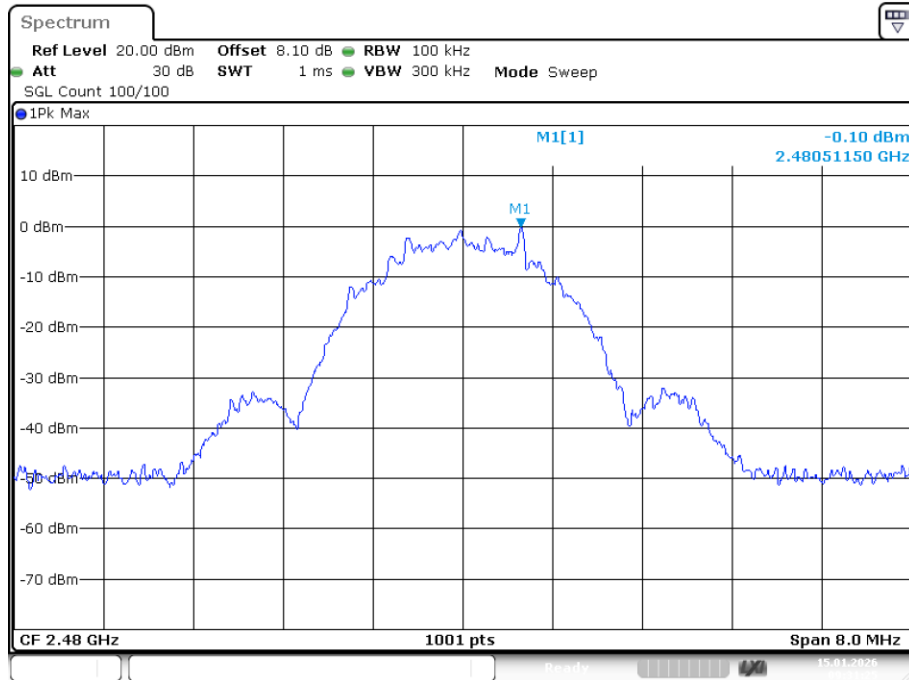
Date: 15.JAN.2026 09:26:45

Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



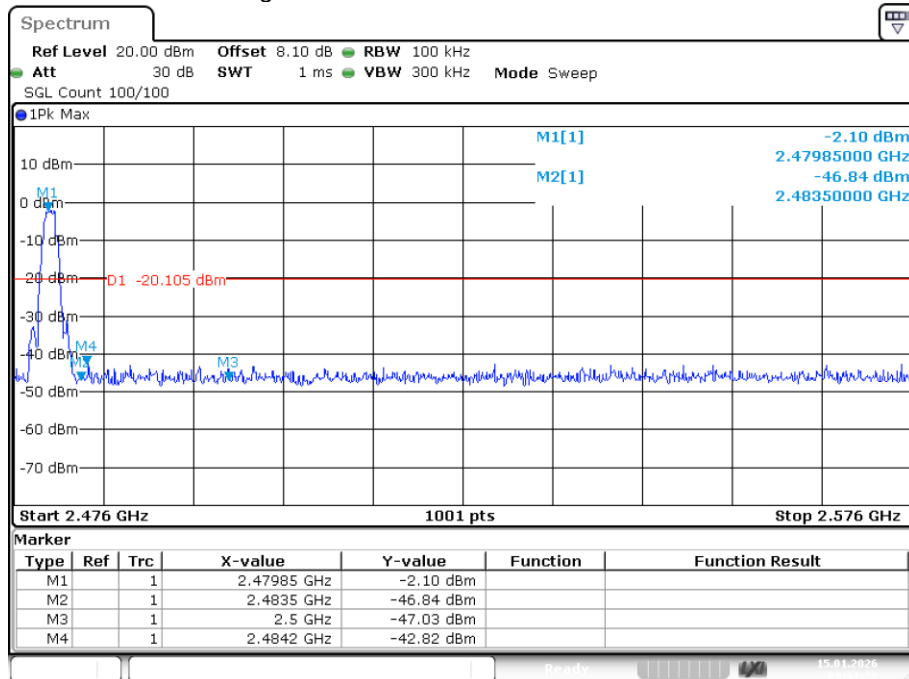
Date: 15.JAN.2026 09:26:49

Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Date: 15.JAN.2026 09:31:24

Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



Date: 15.JAN.2026 09:31:28

Note: offset=cable factor

11. BAND EDGE(RADIATED)

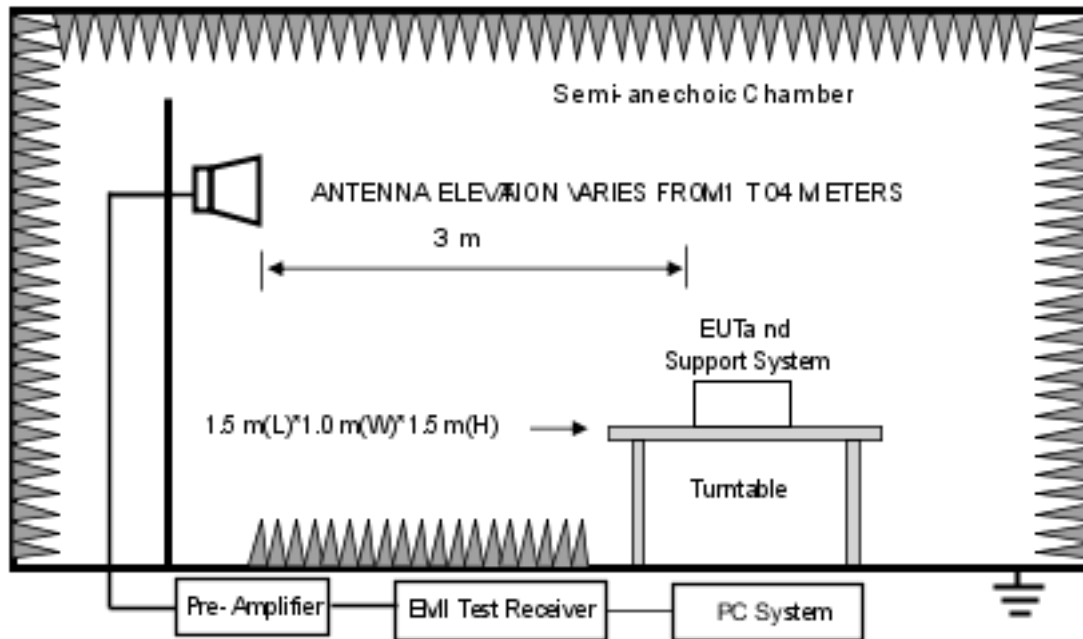
11.1. Test limits

Please refer RSS-GEN & FCC PART 15: 15.247

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

11.2. Block diagram of test setup



11.3. Test Procedure

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

10.3.1 Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

10.3.2 Check the spurious emissions out of band.

10.3.3 RBW 1MHz , VBW 3MHz , peak detector for peak value , RBW 1MHz , VBW 3MHz , RMS detector for AV value.

All restriction band and non- restriction band have been tested, only worse case is reported.

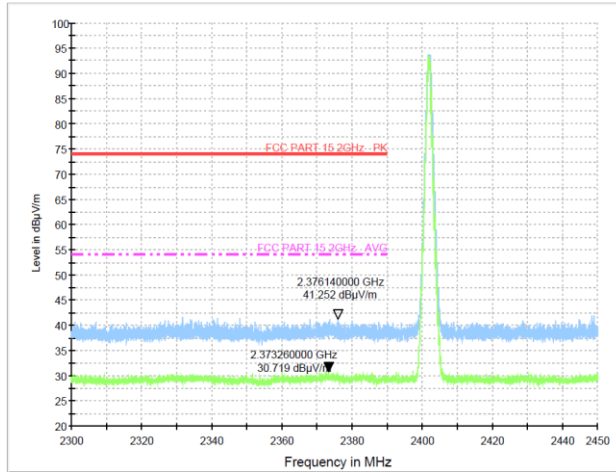
11.4. Test Results

PASS.

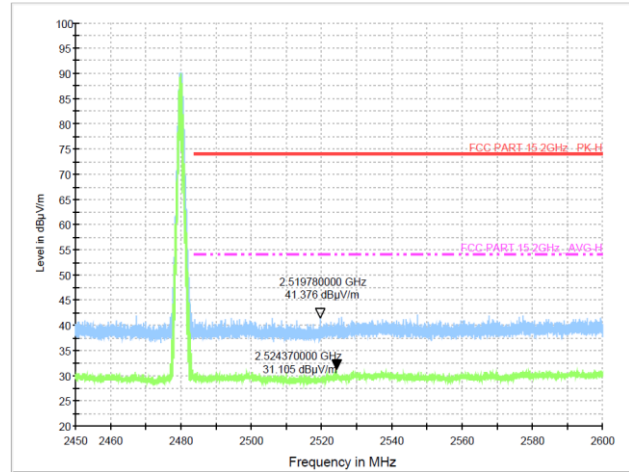
Detailed information please see the following page.

Radiated Method: GFSK(1M)

Test Mode: CH-L

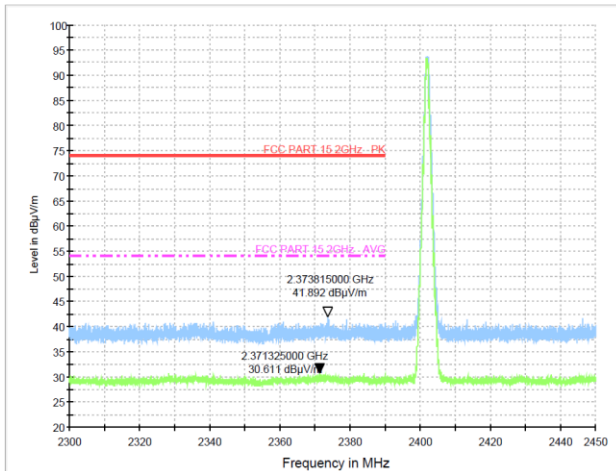


Test Mode: CH-H

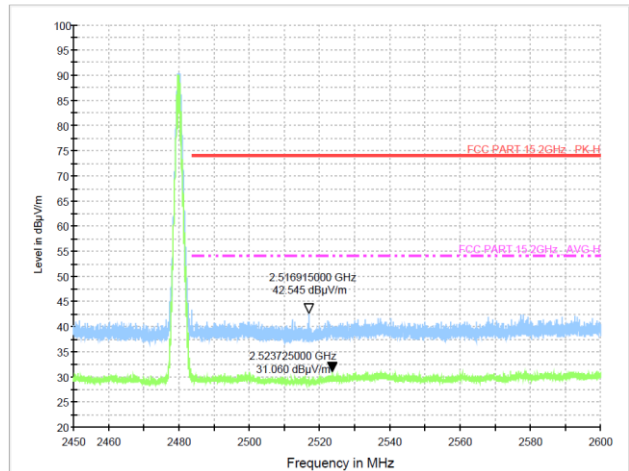


Radiated Method: GFSK(2M)

Test Mode: CH-L



Test Mode: CH-H



12. ANTENNA REQUIREMENT

12.1. Standard Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

12.2. Antenna Connected Construction

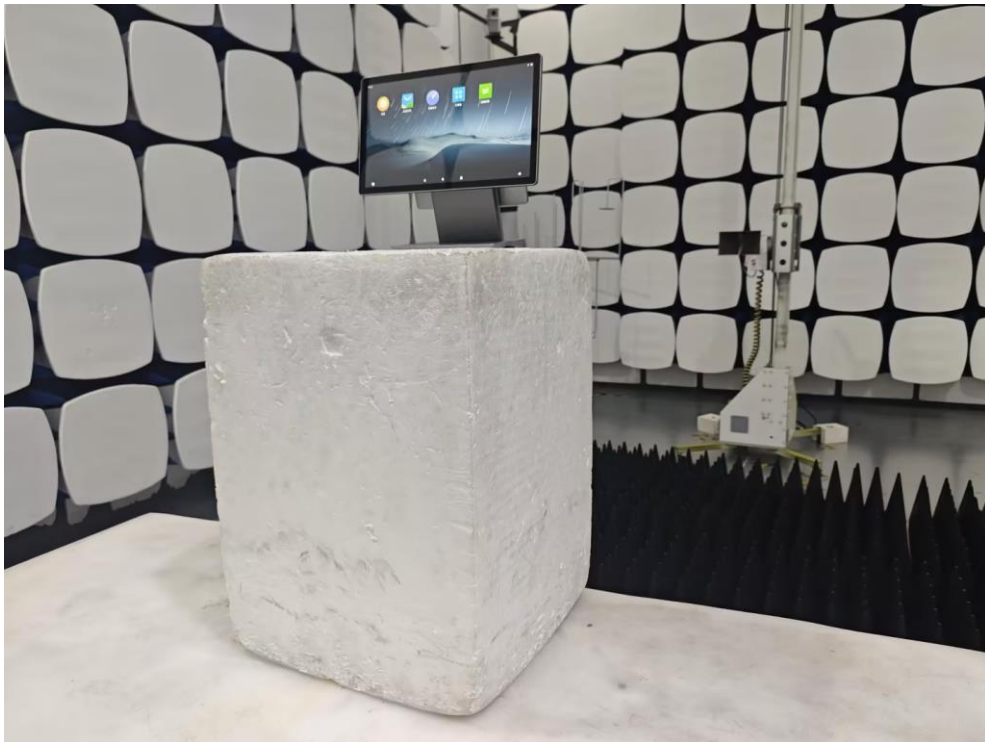
The antenna is internal antenna and no consideration of replacement. Please see EUT photo for details.

12.3. Results

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

13. Test Setup Photo

13.1. Photos of Radiated emission



13.2.Photo of Conducted Emission Test



-----END OF REPORT-----