



FCC TEST REPORT

FCC ID: 2BFOV-MS-622

On Behalf of

Shenzhen multi-element technology Co., LTD

Wireless Mouse

Model No.: MS-622

Prepared for : Shenzhen multi-element technology Co., LTD
Address : Craft Building 705, Shibida, Zhenhua Road Fuqiang Community,
Huaqiang North Street, Futian District, Shenzhen, 518000 China

Prepared By : Shenzhen PSI Testing Co., Ltd.
1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West
Address : Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong,
China

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TEST REPORT DECLARATION

Applicant : Shenzhen multi-element technology Co., LTD
Address : Craft Building 705, Shibida, Zhenhua Road Fuqiang Community, Huaqiang North Street, Futian District, Shenzhen, 518000 China
Manufacturer : Shenzhen multi-element technology Co., LTD
Address : Craft Building 705, Shibida, Zhenhua Road Fuqiang Community, Huaqiang North Street, Futian District, Shenzhen, 518000 China
EUT Description : Wireless Mouse
(A) Model No. : MS-622
(B) Trademark : JOMAA

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249

ANSI C63.10-2020

Test Result: PASS

The device described above is tested by Shenzhen PSI 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 PSI 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 PSI Testing Co., Ltd.

Tested by (name + signature).....:

Felix Pang
Test Engineer



Approved by (name + signature).....:

Simple Guan
Project Manager



Date of issue.....:

Jan.23, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	Jan.23, 2026	Initial released Issue	Felix Pang



1. General Information

1.1. Description of Device (EUT)

EUT Name	: Wireless Mouse
Model No./HVIN	: MS-622
DIFF.	: N/A
Power supply	: DC 3.7V From Battery
Radio technology	: 2.4G SRD
Operation frequency	: 2403~2480MHz
Modulation	: GFSK
Channel No.	: 16CH
Antenna Type	: PCB antenna, maximum gain is -1.66dBi.
Software version	: N/A
Hardware version	: N/A
Intend use environment	: Residential, commercial and light industrial environment
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

1.2. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 21, 2023 File on Federal Communication Commission

Registration Number: 916281

September 21, 2023 Certificated by IC

Registration Number: 31123

CAB identifier: CN0158



1.3. Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	9*6*6 anechoic chamber	SKET	9*6*6	N/A	/	2025.12.18	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV 216	102282	/	2025.12.18	1 Year
4.	L.I.S.N.#2	EMCO	3810-2	00094944	/	2025.12.18	1 Year
5.	Loop Antenna	Schwarz beck	FMZB 1519B	00128	/	2025.01.02	2 Year
6.	Bilog Antenna	Schwarz beck	VULB 9168	01448	/	2025.01.02	2 Year
7.	Spectrum Analyzer	Rohde&Schwarz	FSV40-N	101648	3.70	2025.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LNPA_0118 G-50	SK20220329 01	/	2025.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_1840 G-50	SK20190403 02	/	2025.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.0 2-1111533-F z	/	2025.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P0 08	/	2025.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2025.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2025.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10 A	2022112516 38	/	2025.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2025.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2025.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2025.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2025.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2025.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2025.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2025.12.18	1 Year
For Test Software Information							
Item	Software Name	Manufacturer			Version		
RE	EZ EMC	Farad			PSI-3A1		
CE	EZ EMC	Farad			PSI-3A1		
RF	RTS	TACHOY			V1.0.0		

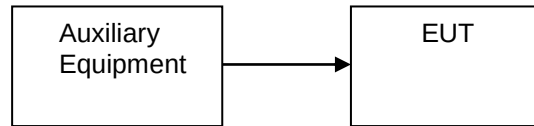
2. Summary Of Measurement

2.1. Summary of Test Result

EMISSION			
Description of Test Item	Test Requirement	Standard Paragraph	Results
Power Line Conducted Emission Test	FCC Part 15	Section 15.207	P
Spurious Emission Test	FCC Part 15	Section 15.249&15.209	P
Occupied bandwidth	FCC Part 15	Section 15. 249	P
Band edge Requirement	FCC Part 15	Section 15.249&15.209	P
Antenna Requirement	FCC Part 15	Section 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. 4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.			

Note: The EUT has been tested as an independent unit. And continual transmitting in maximum power.

2.2. Test Connection



2.3. Assistant Equipment Used For Test

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Notebook computer	DELL	Vostro 3520	/	1
2	N/A	N/A	N/A	N/A	N/A

2.4. Accessories of Device (EUT)

Accessories : N/A
 Manufacturer : N/A
 Model : N/A
 Rating : N/A

2.5. Test Mode

Mode	Channel	Frequency(MHz)
GFSK	CH00	2403
	CH08	2441
	CH15	2480
	Charging	
Note: According exploratory test, EUT will have maximum output power in those data rate. So those data rate were used for all test.		

2.6. Software test version and power setting information

Software testing version	Manufacturer's special fixed frequency method		
Mode	The client 's preset testing software is used to control the operation of EUT in continuous transmission mode and select the testing channel, wireless mode:		
Power level setup by client			
Mode	Channel	Frequency (MHz)	Soft Set
GFSK	CH00	2403	TX level is set as
	CH08	2441	TX level is set as
	CH15	2480	TX level is set as

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2403 MHz	04	2422 MHz	08	2441 MHz	12	2463 MHz
01	2407 MHz	05	2426 MHz	09	2445 MHz	13	2466 MHz
02	2414 MHz	06	2436 MHz	10	2453 MHz	14	2473 MHz
03	2419 MHz	07	2439 MHz	11	2459 MHz	15	2480 MHz

2.7. Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

2.8. Measurement Uncertainty (95% confidence levels, k=2)

Item	Uncertainty
Power Line Conducted Emissions Test	2.13dB
Radiation Emission test in 3m chamber(Below 30MHz)	4.07dB
Radiation Emission test in 3m chamber(30MHz to 1GHz)	4.51dB
Radiation Emission test in 3m chamber(1GHz to 18GHz)	5.07dB
Radiation Emission test in 3m chamber(18GHz to 40GHz)	5.21dB
Radio Frequency	48.24KHz
Conducted RF Power	0.41dB
Power Spectral Density	0.39 dB
Occupied-Bandwidth	968Hz
Duty Cycle	1%
Conducted-Spurious Emission	1.26dB

3. Radiated Emission and Band Edge

3.1. Radiated Emission Limits

FCC Part 15.209

Frequency MHz	Distance (Meters)	Field Strengths Limits	
		uV/m	dB uV/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(3nW)	40
88 ~ 216	3	150(6.8nW)	43.5
216 ~ 960	3	200(12nW)	46
Above 960	3	500(75nW)	54
Carrier frequency	3	50000(avg)	113.97(peak) 93.97(avg)

Notes:

1. Emission level = Read level + Antenna Factor - Preamp Factor + Cable Loss
2. The smaller limit shall apply at the cross point between two frequency bands.
3. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
4. For frequencies above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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

Receiver Parameter	Setting
Attenuation	Auto
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

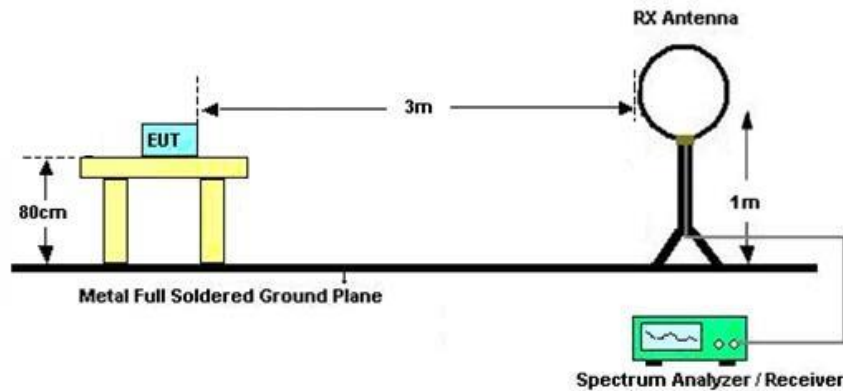
3.2. Test Procedure

- The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform (Below 1GHz)
- All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

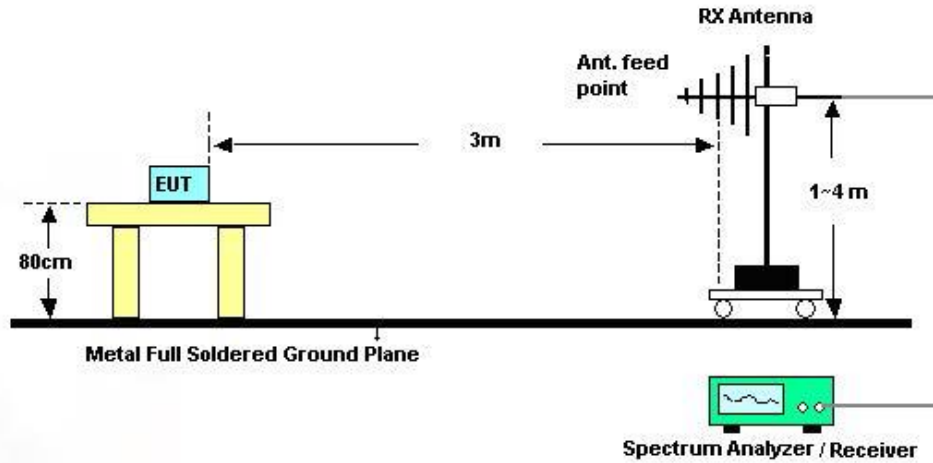
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.3. Test Setup

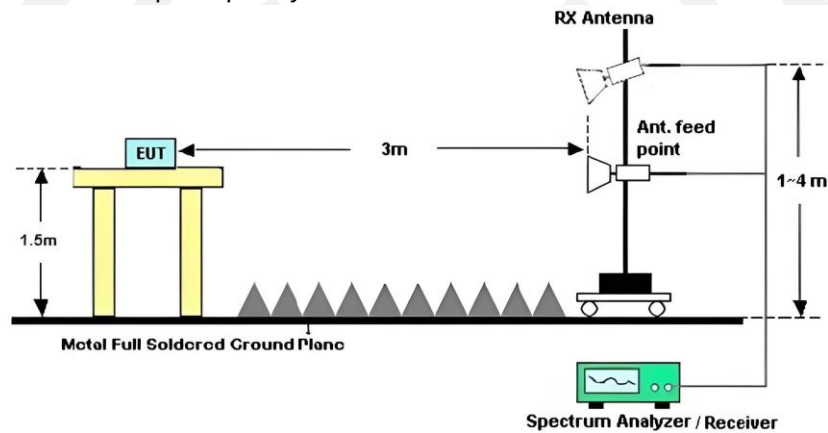
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.4. Eut Operating Conditions

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.5. Test Results

For the actual test, please refer to the ANSI C63.10, refer to section 7 for more detail

We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.
Detailed information please see the following page.

From 9KHz to 30MHz:	
Test Date : 2026.01.07	Temperature : 20.4℃
Test Engineer : Felix Pang	Humidity : 39%
Test Mode : GFSK mode	
Test Results : PASS	
Note:	The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

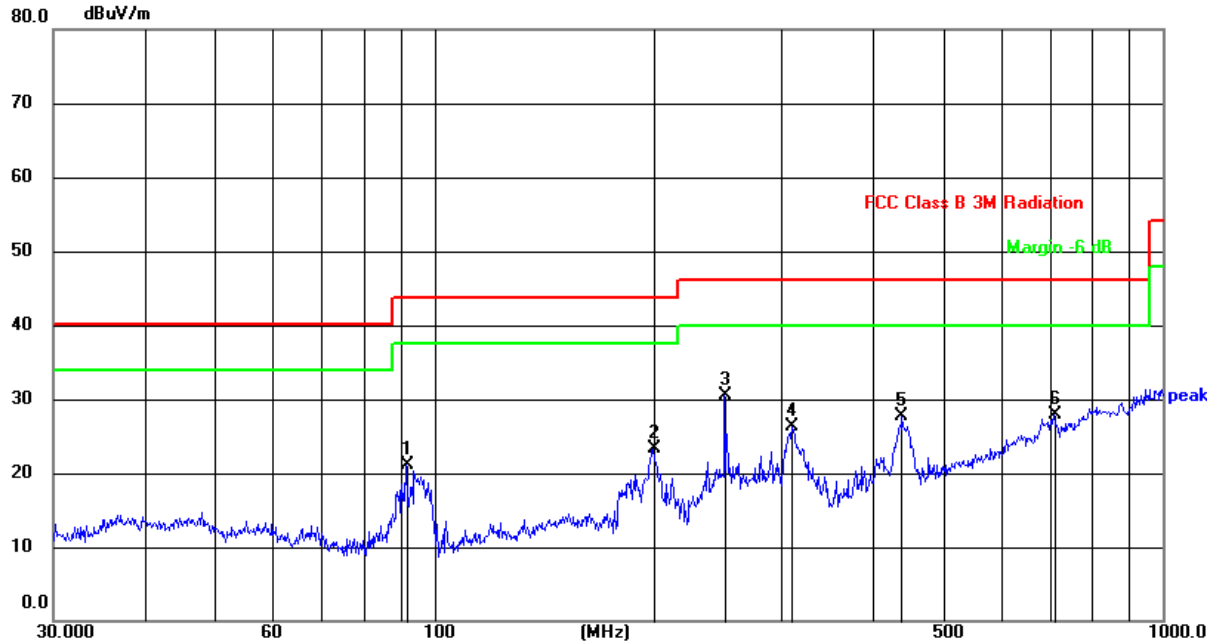
From 30MHz to 1000MHz:	
Test Date : 2026.01.07	Temperature : 20.4℃
Test Engineer : Felix Pang	Humidity : 39%
Test Mode : GFSK mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. All modes have been tested, and only worst data of GFSK 2415MHz mode was listed in this report.

The graph displays the FCC Class B 3M Radiation limit (red line) and a measured signal (blue line) across a frequency range from 30.000 to 1000.0 MHz. The y-axis is labeled 'dBuV/m' and ranges from 0.0 to 80.0. The blue line shows several peaks, with five specific points marked with 'x' and numbered 1 through 5. A green line indicates a 'Margin -6 dB' between the limit and the measured signal at 1000 MHz.

Frequency (MHz)	Limit (dBuV/m)	Measured Signal (dBuV/m)
30.000	40	25
40.000	40	20
50.000	40	25
60.000	40	20
70.000	40	15
80.000	40	20
90.000	40	25
100.000	43	10
200.000	43	15
300.000	43	15
400.000	43	20
500.000	43	25
600.000	43	25
700.000	43	25
800.000	43	25
900.000	43	25
1000.000	43	30

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2111	47.45	-22.73	24.72	40.00	-15.28	QP
2	38.7518	45.32	-21.14	24.18	40.00	-15.82	QP
3	47.4918	48.11	-21.50	26.61	40.00	-13.39	QP
4	94.0979	49.49	-25.33	24.16	43.50	-19.34	QP
5	197.2001	45.75	-23.30	22.45	43.50	-21.05	QP
6	435.5898	40.86	-15.97	24.89	46.00	-21.11	QP

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	91.4949	46.47	-25.38	21.09	43.50	-22.41	QP
2	199.9856	46.76	-23.38	23.38	43.50	-20.12	QP
3	250.3012	52.71	-22.25	30.46	46.00	-15.54	QP
4	309.9977	46.13	-19.86	26.27	46.00	-19.73	QP
5	438.6554	43.51	-15.88	27.63	46.00	-18.37	QP
6	709.1823	36.79	-8.93	27.86	46.00	-18.14	QP

Note: Level = Reading + Factor Margin = Level – Limit

From 1GHz to 40GHz:	
Test Date : 2026.01.07	Temperature : 20.4℃
Test Engineer : Felix Pang	Humidity : 39%
Test Mode : GFSK mode	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

Frequency range: 1GHz~40GHz

Test Mode : GFSK TX 2403MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2403	V	90.33	-20.41	69.92	113.97	-44.05	Peak
2	2403	V	71.54	-20.41	51.13	93.97	-42.84	Avg
3	4806	V	57.91	-13.25	44.66	74.00	-29.34	Peak
4	4806	V	-	--	-	54.00	-	Avg
5	2403	H	93.00	-20.41	72.59	113.97	-41.38	Peak
6	2403	H	71.08	-20.41	50.67	93.97	-43.30	Avg
7	4806	H	55.98	-13.25	42.73	74.00	-31.27	Peak
8	4806	H	--	--	--	54.00	-	Avg
Test Mode : GFSK TX 2441MHz								
1	2441	V	87.13	-20.24	66.89	113.97	-47.08	Peak
2	2441	V	71.23	-20.24	50.99	93.97	-42.98	Avg
3	4882	V	49.62	-12.98	36.64	74.00	-37.36	Peak
4	4882	V	-	--	-	54.00	-	Avg
5	2441	H	90.92	-20.24	70.68	113.97	-43.29	Peak
6	2441	H	69.92	-20.24	49.68	93.97	-44.29	Avg
7	4882	H	55.44	-12.98	42.46	74.00	-31.54	Peak
8	4882	H	--	--	--	54.00	--	Avg
Test Mode : GFSK TX 2480MHz								
1	2480	V	85.90	-20.15	65.75	113.97	-48.22	Peak
2	2480	V	71.76	-20.15	51.61	93.97	-42.36	Avg
3	4960	V	55.90	-12.70	43.20	74.00	-30.80	Peak
4	4960	V	-	--	-	54.00	-	Avg
5	2480	H	87.71	-20.15	67.56	113.97	-46.41	Peak
6	2480	H	68.57	-20.15	48.42	93.97	-45.55	Avg
7	4960	H	55.22	-12.70	42.52	74.00	-31.48	Peak
8	4960	H	--	--	--	54.00	--	Avg
Note:	1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit.							

Fundamental Test

Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
2403	V	90.33	-20.41	69.92	113.97	-44.05	Peak
2403	V	71.54	-20.41	51.13	93.97	-42.84	Avg
2403	H	93.00	-20.41	72.59	113.97	-41.38	Peak
2403	H	71.08	-20.41	50.67	93.97	-43.30	Avg
2441	V	87.13	-20.24	66.89	113.97	-47.08	Peak
2441	V	71.23	-20.24	50.99	93.97	-42.98	Avg
2441	H	90.92	-20.24	70.68	113.97	-43.29	Peak
2441	H	69.92	-20.24	49.68	93.97	-44.29	Avg
2480	V	85.90	-20.15	65.75	113.97	-48.22	Peak
2480	V	71.76	-20.15	51.61	93.97	-42.36	Avg
2480	H	87.71	-20.15	67.56	113.97	-46.41	Peak
2480	H	68.57	-20.15	48.42	93.97	-45.55	Avg

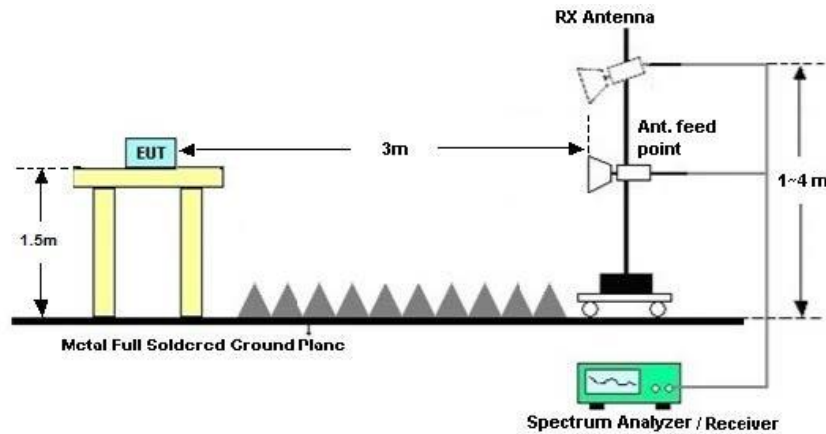
Note : 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.

2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.

Result=Reading + Correct Factor. Margin= Result-Limit.

4. Band Edge Test

4.1. Block Diagram of Test Setup



4.2. Test Limit

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

Refer to ANSI C 63.10, Clause 6.10.

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

Details see the KDB558074 D01 Meas Guidance v05r02

4.3.1 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

4.3.2 Check the spurious emissions out of band.

4.3.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

4.4. Test Results

Test Date	: 2026.01.07	Temperature	: 20.4℃
Test Engineer	: Felix Pang	Humidity	: 39%
Test Results	: PASS		

Frequency Range : 2310MHz~2410MHz								
Test Mode : GFSK TX 2403MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	58.56	-20.45	38.11	74.00	-35.89	Peak
2	2390	H	--	-20.45	--	54.00	--	Avg
3	2400	H	58.85	-20.41	38.44	74.00	-35.56	Peak
4	2400	H	--	-20.41	--	54.00	--	Avg
1	2390	V	61.13	-20.45	40.68	74.00	-33.32	Peak
2	2390	V	--	-20.45	--	54.00	--	Avg
3	2400	V	64.04	-20.41	43.63	74.00	-30.37	Peak
4	2400	V	--	-20.41	--	54.00	--	Avg
Frequency Range : 2450MHz~2550MHz								
Test Mode : GFSK TX 2480MHz								
1	2483.5	H	60.87	-20.15	40.72	74.00	-33.28	Peak
2	2483.5	H	--	-20.15	--	54.00	--	Avg
1	2483.5	V	65.23	-20.15	45.08	74.00	-28.92	Peak
2	2483.5	V	--	-20.15	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

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.

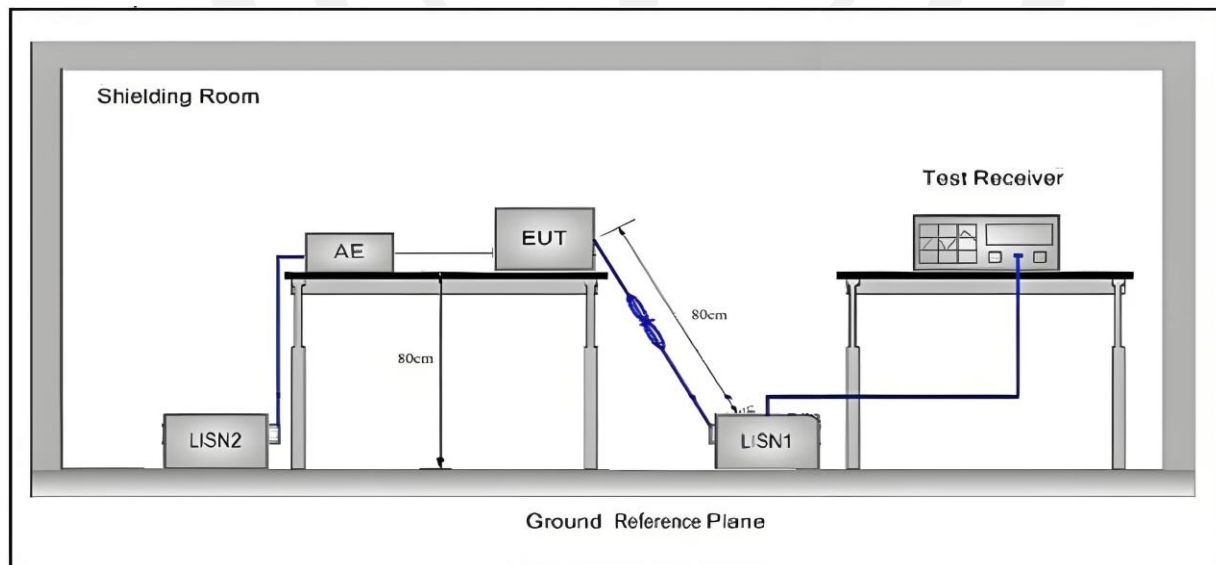
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

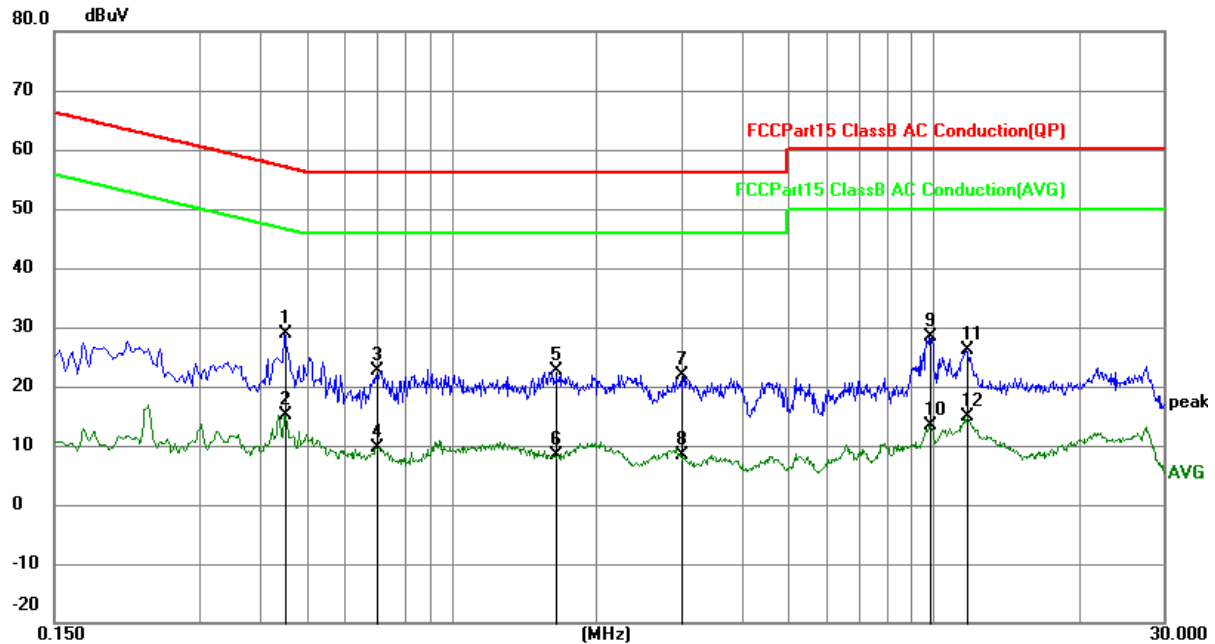
5.3. Test Setup



5.4. Test Results

Test Date	: 2026.01.06	Temperature	: 20.8℃
Test Engineer	: Felix Pang	Humidity	: 35%
Test Mode	: Charging		
Test voltage	: AC 120V/60Hz		
Test Results	: PASS		
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.		

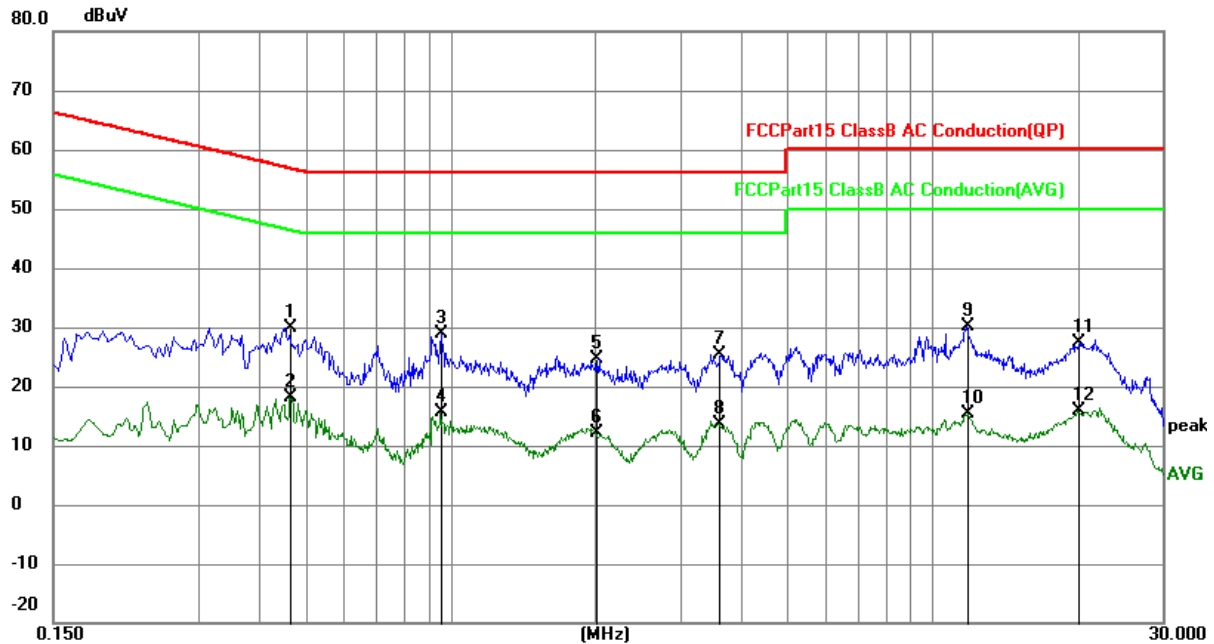
Polarization: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4515	19.06	9.92	28.98	56.85	-27.87	QP
2	0.4515	5.16	9.92	15.08	46.85	-31.77	AVG
3	0.6988	12.68	9.94	22.62	56.00	-33.38	QP
4	0.6988	-0.31	9.94	9.63	46.00	-36.37	AVG
5	1.6394	12.75	9.90	22.65	56.00	-33.35	QP
6	1.6394	-1.53	9.90	8.37	46.00	-37.63	AVG
7	2.9940	12.12	9.84	21.96	56.00	-34.04	QP
8	2.9940	-1.58	9.84	8.26	46.00	-37.74	AVG
9	9.8115	18.60	9.84	28.44	60.00	-31.56	QP
10	9.8115	3.58	9.84	13.42	50.00	-36.58	AVG
11	11.7060	16.31	9.82	26.13	60.00	-33.87	QP
12	11.7060	5.01	9.82	14.83	50.00	-35.17	AVG

Result=Reading + Correct Factor. Margin= Result-Limit.

Polarization: N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4650	19.93	9.93	29.86	56.60	-26.74	QP
2	0.4650	8.11	9.93	18.04	46.60	-28.56	AVG
3	0.9554	18.93	9.96	28.89	56.00	-27.11	QP
4	0.9554	5.72	9.96	15.68	46.00	-30.32	AVG
5	2.0084	14.70	9.85	24.55	56.00	-31.45	QP
6	2.0084	2.31	9.85	12.16	46.00	-33.84	AVG
7	3.5970	15.64	9.84	25.48	56.00	-30.52	QP
8	3.5970	3.82	9.84	13.66	46.00	-32.34	AVG
9	11.8230	20.37	9.81	30.18	60.00	-29.82	QP
10	11.8230	5.46	9.81	15.27	50.00	-34.73	AVG
11	20.0040	17.71	9.66	27.37	60.00	-32.63	QP
12	20.0040	6.12	9.66	15.78	50.00	-34.22	AVG

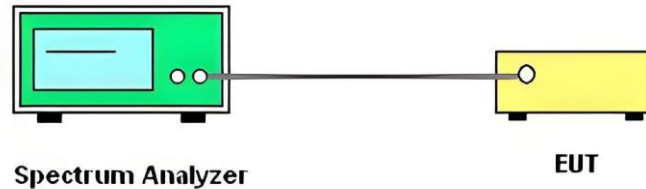
Result=Reading + Correct Factor. Margin= Result-Limit.

6. Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC 15.249
Test Limit	N/A

6.2. Test Setup



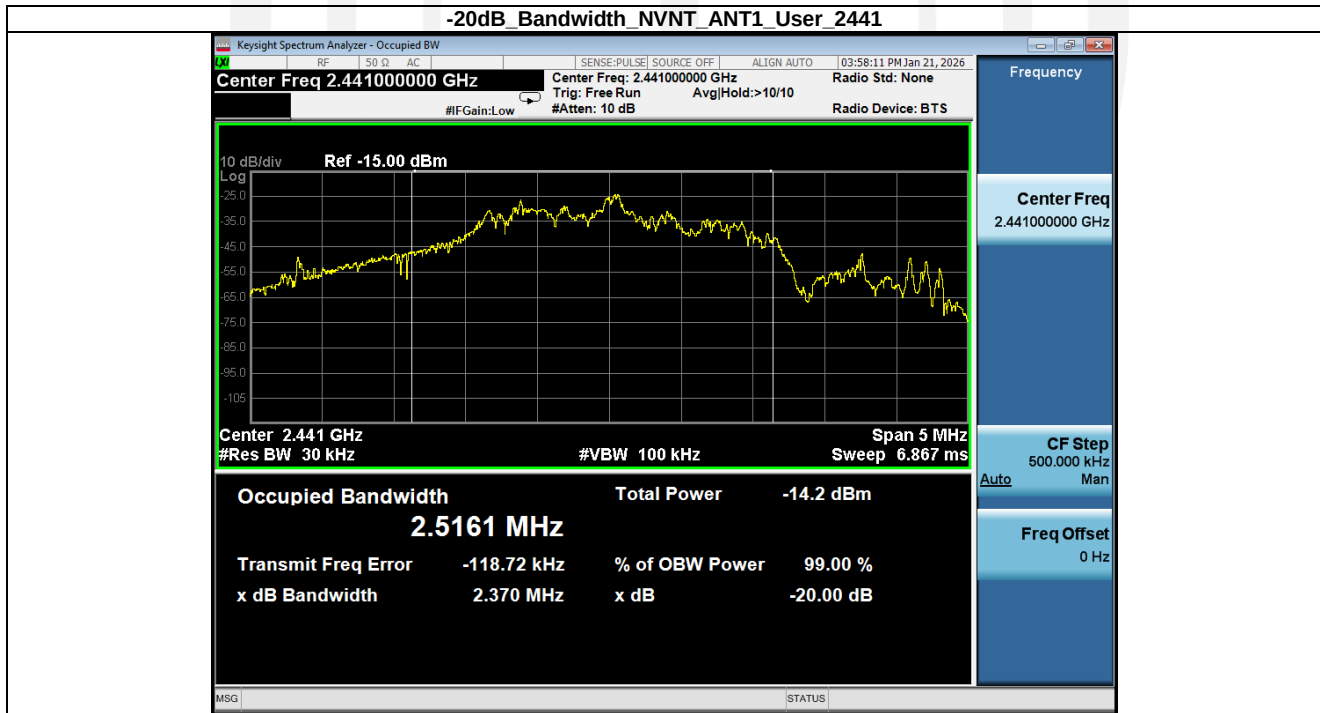
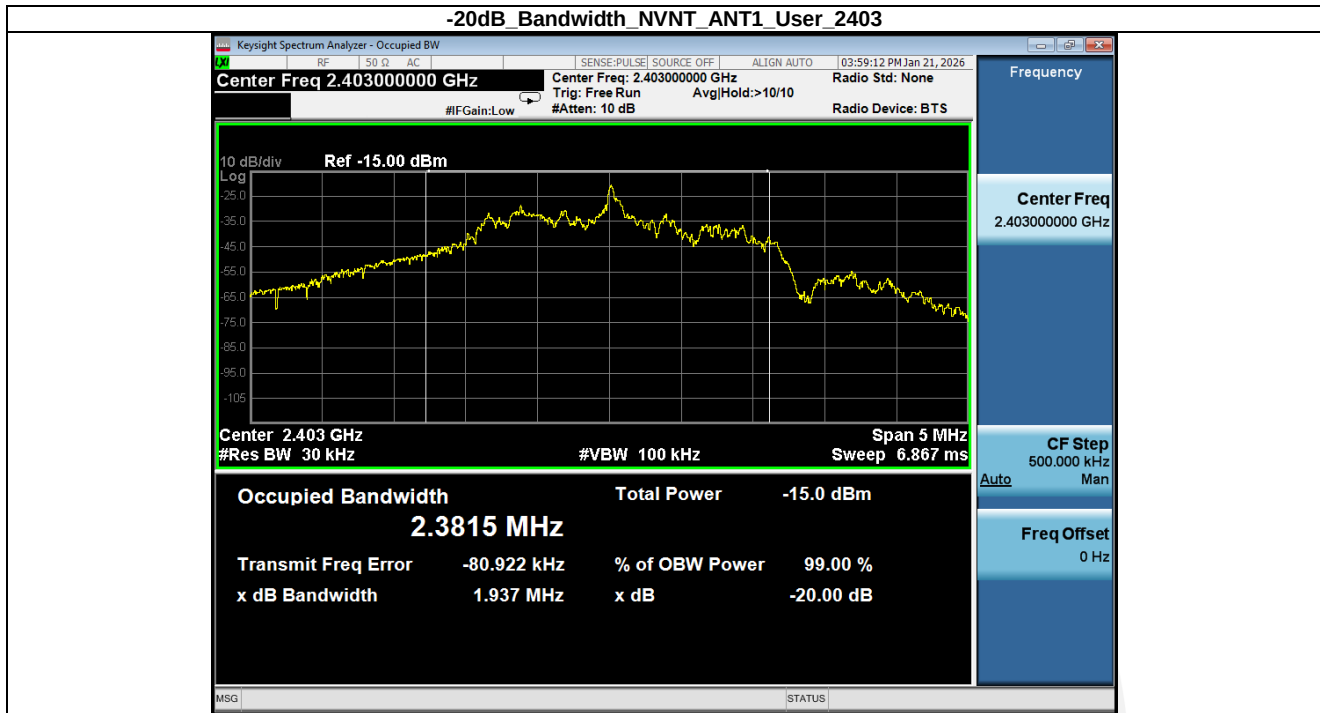
6.3. Test Procedure

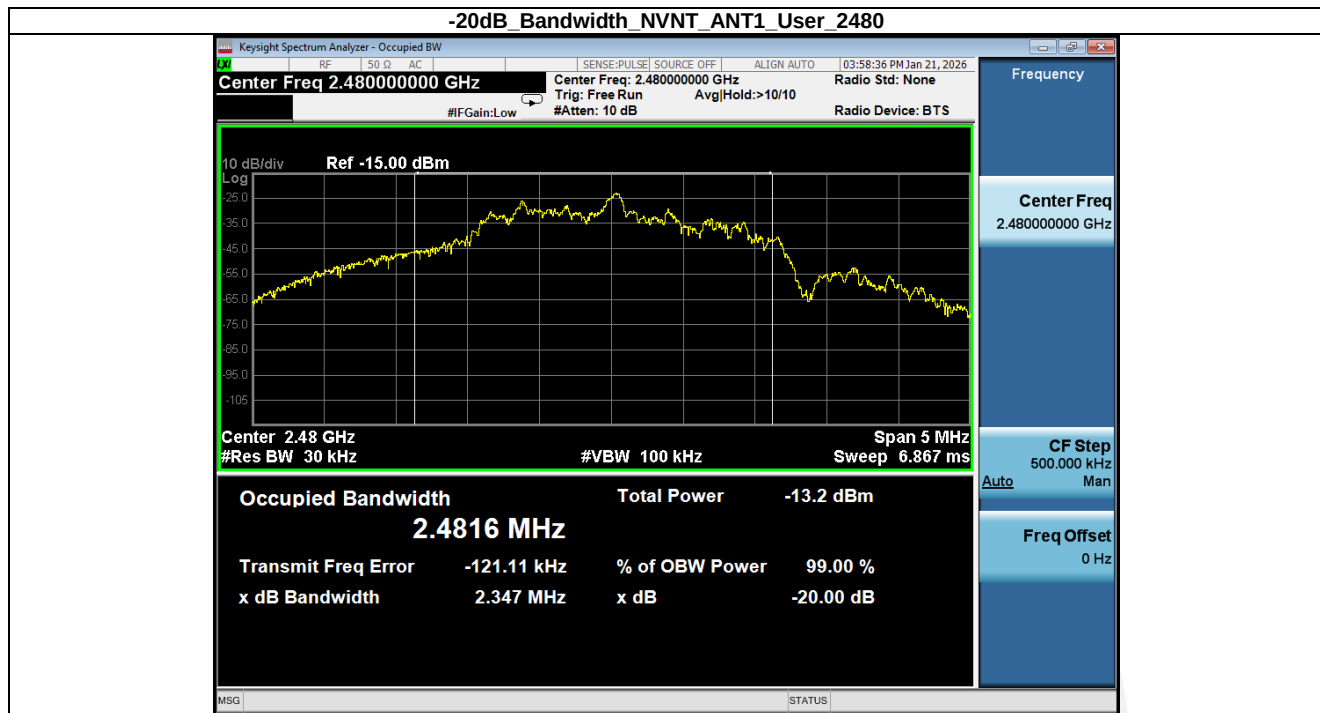
Using the following spectrum analyzer settings:

1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
2. Set the RBW 1%-5%*OBW.
3. Set the VBW ≥ 3 *RBW
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
9. Measure the 99% Bandwidth use the function button of "Occupied Bandwidth".

6.4. Test Results

Mode	Antenna	Frequency (MHz)	-20dB BW(MHz)	99% BW(MHz)
NVNT	ANT1	2403.00	1.937	2.3815
NVNT	ANT1	2441.00	2.370	2.5161
NVNT	ANT1	2480.00	2.347	2.4816





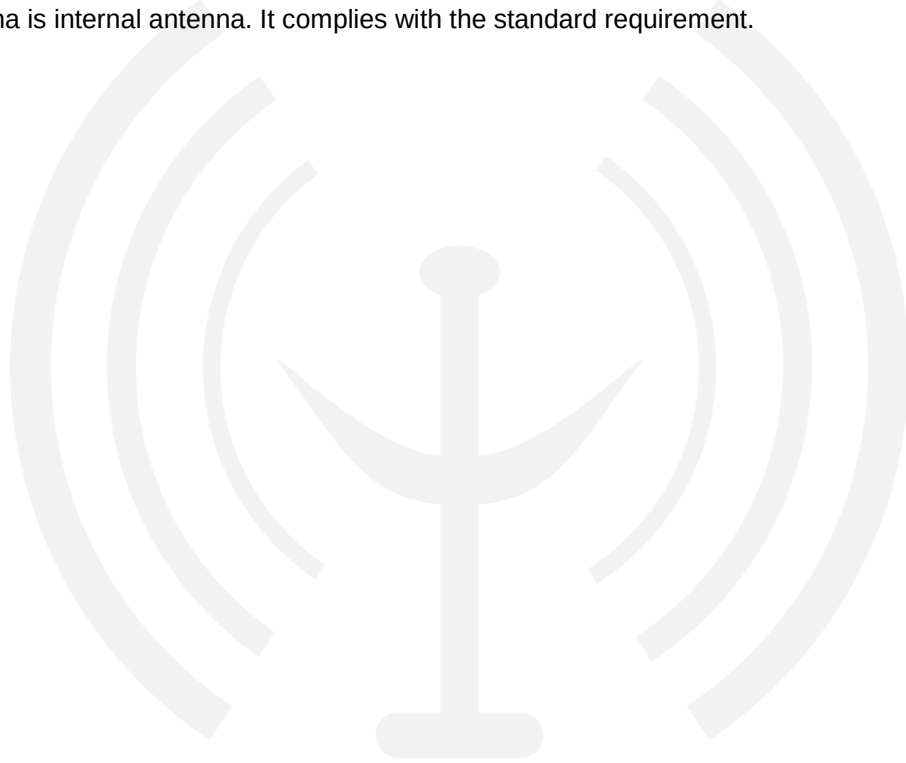
7. Antenna Requirement

7.1. Standard Requirement

According to the FCC Part 15 Paragraph 15.203& RSS-GEN(6.8), 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 to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product use a permanent ceramic printed antenna, fulfill the requirement of this section

7.2. EUT Antenna

The EUT antenna is internal antenna. It complies with the standard requirement.



8. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

9. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

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

