



FCC TEST REPORT

FCC ID: 2A5HP-M03

On Behalf of

Shenzhen Zhilian Shengya Electronic Technology Co. , Ltd.

Smart Glasses

Model No.: M03, M01, M01A, M01B, M01C, M01D, M01E, M01F, M01G, M01H, M01J, M01K, M01L, M01N, M01O, M01P, M01Q, M01R, M01S, M01T, M01W, M01X, M01Y, M01Z, M01MAX, M01Pro, M01 Eyewear, M03A, M03B, M03C, M03D, M03E, M03F, M03G, M03H, M03J, M03K, M03L, M03N, M03O, M03P, M03Q, M03R, M03S, M03T, M03W, M03X, M03Y, M03Z, M03MAX, M03Pro, M03 Eyewear

Prepared for : Shenzhen Zhilian Shengya Electronic Technology Co. , Ltd.
Address : 5th floor, Building B, Huawan Industrial Park, Xixiang Street,
Bao'an District, Shenzhen

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

Report Number : psi2509181-C01-R05
Date of Receipt : September 19, 2025
Date of Test : September 19, 2025–November 13, 2025
Date of Report : November 14, 2025
Version Number : V0

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TEST REPORT DECLARATION

Applicant : Shenzhen Zhilian Shengya Electronic Technology Co. , Ltd.
Address : 5th floor, Building B, Huawan Industrial Park, Xixiang Street, Bao'an District,
Shenzhen
Manufacturer : Shenzhen Zhilian Shengya Electronic Technology Co. , Ltd.
Address : 5th floor, Building B, Huawan Industrial Park, Xixiang Street, Bao'an District,
Shenzhen
EUT Description : Smart Glasses

M03, M01, M01A, M01B, M01C, M01D, M01E, M01F,
M01G, M01H, M01J, M01K, M01L, M01N, M01O, M01P,
M01Q, M01R, M01S, M01T, M01W, M01X, M01Y, M01Z,
(A) Model No. : M01MAX, M01Pro, M01 Eyewear, M03A, M03B, M03C,
M03D, M03E, M03F, M03G, M03H, M03J, M03K, M03L,
M03N, M03O, M03P, M03Q, M03R, M03S, M03T, M03W,
M03X, M03Y, M03Z, M03MAX, M03Pro, M03 Eyewear
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

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 and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC Part 15C requirements.

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.....:

November 14, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 14, 2025	Initial released Issue	Felix Pang



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
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1), RSS-247(5.4 b), ANSI C63.10 :2020	P
Bandwidth	FCC Part 15: 15.215, RSS-247(5.1 a), ANSI C63.10 :2020	P
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1), RSS-247(5.1 b), ANSI C63.10 :2020	P
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1), RSS-247(5.1 d), ANSI C63.10 :2020	P
Dwell Time	FCC Part 15: 15.247(a)(1), RSS-247(5.1 d), ANSI C63.10 :2020	P
Radiated Spurious Emission	FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-Gen(8.9), RSS-247(5.5), ANSI C63.10 :2020	P
Out-of-band Emissions	FCC Part 15: 15.247(d), RSS-Gen(8.9), RSS-247(5.5), ANSI C63.10 :2020	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d), RSS-Gen(6.13), RSS-247(5.5), ANSI C63.10 :2020	P
Power Line Conducted Emissions	FCC Part 15: 15.207, RSS-GEN(8.8), ANSI C63.10 :2020	P
Frequency stability	RSS-GEN(6.11)	N/A
Antenna requirement	FCC Part 15: 15.203, RSS-GEN(6.8)	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. Conclusion determination rules of this report: Unless there are clear provisions on measurement uncertainty in the standard or customer requirements, decision by actual test data without considering measurement uncertainty.

5. Measurement method usage KDB 558074 D01 15.247 Meas Guidance v05r02.

2. General Information

2.1. Description of Device (EUT)

Product Name	: Smart Glasses
Model No.	: M03, M01, M01A, M01B, M01C, M01D, M01E, M01F, M01G, M01H, M01J, M01K, M01L, M01N, M01O, M01P, M01Q, M01R, M01S, M01T, M01W, M01X, M01Y, M01Z, M01MAX, M01Pro, M01 Eyewear, M03A, M03B, M03C, M03D, M03E, M03F, M03G, M03H, M03J, M03K, M03L, M03N, M03O, M03P, M03Q, M03R, M03S, M03T, M03W, M03X, M03Y, M03Z, M03MAX, M03Pro, M03 Eyewear
Diff	: The circuits are identical, but the model designations and appearances differ. All tests were conducted using the M03 model.
Power supply	: DC 3.7V from battery, DC 5V from adapter.
Radio Technology	: Bluetooth V5.4 EDR
Operation frequency	: 2402-2480MHz
Channel No.	: 79 channels
Channel Separation	: 1MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type	: Internal antenna, Maximum Gain is 1.7dBi.
PMN	: N/A
HVIN	: N/A
Software version	: V1.0
Hardware version/FVIN	: V1.0
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

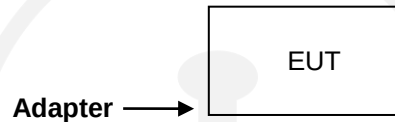
2.2. Accessories of Device (EUT)

Accessories : Magnetic-clasp charging Cable
 Manufacturer : N/A
 Model : N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number
1	Adapter	Baseus	CCXFK65CC	N/A
2	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

The test software used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK / Pi/4-DQPSK / 8DPSK Carrier Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
GFSK / Pi/4-DQPSK / 8DPSK hopping on Tx Mode	CH0	2402
	CH39	2441
	CH78	2480
GFSK / Pi/4-DQPSK / 8DPSK hopping off Tx Mode	CH0	2402
	CH39	2441
	CH78	2480

2.6. Software test version and power setting information

Software testing version	TagBridgeTester.exe V1.25.5.1		
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, Pi/4-DQPSK, 8DPSK	CH0	2402	TX level is set as defaults value.
	CH39	2441	TX level is set as defaults value.
	CH78	2480	TX level is set as defaults value.

2.7. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	26℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

2.8. 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 13, 2023 File on Federal Communication Commission

Registration Number: 916281

September 21, 2023 Certificated by IC

Registration Number: 31123

CAB identifier: CN0158

2.9.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



2.10.Test 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	/	2022.12.20	3 Year
2.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2024.12.18	1 Year
3.	L.I.S.N.#1	Rohde&Schwarz	ENV216	102282	/	2024.12.18	1 Year
4.	L.I.S.N.#2	RFT	NNB111	13835240	/	2024.12.18	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	FSV-40N	101648	3.70	2024.12.18	1 Year
8.	Horn Antenna	Schwarz beck	BBHA 9120 D	02706	/	2025.01.02	2 Year
9.	Amplifier	SKET	LAPA_01G18 G-45dB	SK2022032901	/	2024.12.18	1 Year
10.	Horn Antenna	Schwarz beck	BBHA 9170	00946	/	2024.12.31	2 Year
11.	Amplifier	SKET	LNPA_0118G- 45	SK2020010801	/	2024.12.18	1 Year
12.	RF Power Probe	Rohde&Schwarz	NRP-Z11	1138.3004.02-11 11533-Fz	/	2024.12.18	1 Year
13.	RF Sensor Unit	Tachoy	TR1029-2	20220428P008	/	2024.12.18	1 Year
14.	Spectrum Analyzer	Agilent	N9020A	MY51281067	A.14.03	2024.12.18	1 Year
15.	Temp. & Humid Chamber	Auchno	9606	/	/	2024.12.18	1 Year
16.	Regulated DC Power Supply	Xinouhua	ADC120V10A	202211251638	/	2024.12.18	1 Year
17.	Cable	SKET	Cable-RE-1	#02/#03	/	2024.12.18	1 Year
18.	Cable	SKET	Cable-RE-2	#01	/	2024.12.18	1 Year
19.	Cable	SKET	Cable-RE-3	#04	/	2024.12.18	1 Year
20.	Cable	SKET	Cable-CE-1	A-E-24	/	2024.12.18	1 Year
21.	6dB Attenuator	Schwarzbeck	DGA 9552N 6dB	CK4186	/	2024.12.18	1 Year
22.	Power meter	Agilent	E4419B	GB40202121	/	2024.12.18	1 Year
23.	Comprehensive Test Instrument	Rohde&Schwarz	CMW 500	145266	/	2024.12.18	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			

3. Maximum Peak Output Power

3.1. Limit

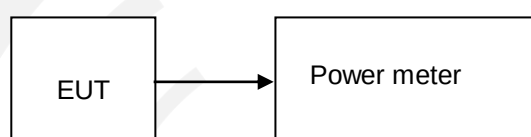
Please refer FCC part 15.247 & RSS-247.

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output is connected to the RF Power meter. The Power meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

Right:

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	0.26	1.06	1000	Pass
NVNT	ANT1	1-DH1	2441.00	0.85	1.22	1000	Pass
NVNT	ANT1	1-DH1	2480.00	1.11	1.29	1000	Pass
NVNT	ANT1	2-DH1	2402.00	1.09	1.28	125	Pass
NVNT	ANT1	2-DH1	2441.00	1.70	1.48	125	Pass
NVNT	ANT1	2-DH1	2480.00	1.97	1.57	125	Pass
NVNT	ANT1	3-DH1	2402.00	1.64	1.46	125	Pass
NVNT	ANT1	3-DH1	2441.00	2.15	1.64	125	Pass
NVNT	ANT1	3-DH1	2480.00	2.37	1.73	125	Pass

Left:

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	2.14	1.64	1000	Pass
NVNT	ANT1	1-DH1	2441.00	1.53	1.42	1000	Pass
NVNT	ANT1	1-DH1	2480.00	1.25	1.33	1000	Pass
NVNT	ANT1	2-DH1	2402.00	2.96	1.98	125	Pass
NVNT	ANT1	2-DH1	2441.00	2.35	1.72	125	Pass
NVNT	ANT1	2-DH1	2480.00	1.99	1.58	125	Pass
NVNT	ANT1	3-DH1	2402.00	3.61	2.30	125	Pass
NVNT	ANT1	3-DH1	2441.00	2.96	1.98	125	Pass
NVNT	ANT1	3-DH1	2480.00	2.63	1.83	125	Pass

4. Bandwidth

4.1. Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in RSS-GEN, FCC Section 15.247(a)(1), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

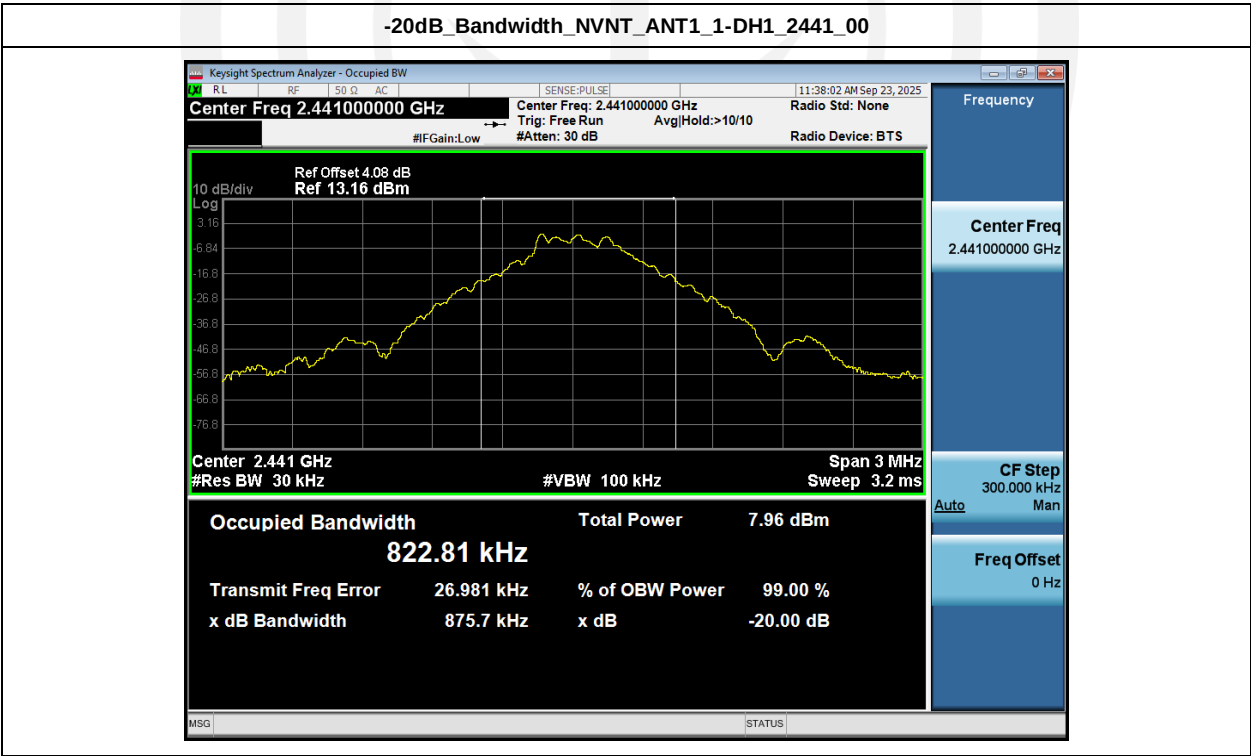
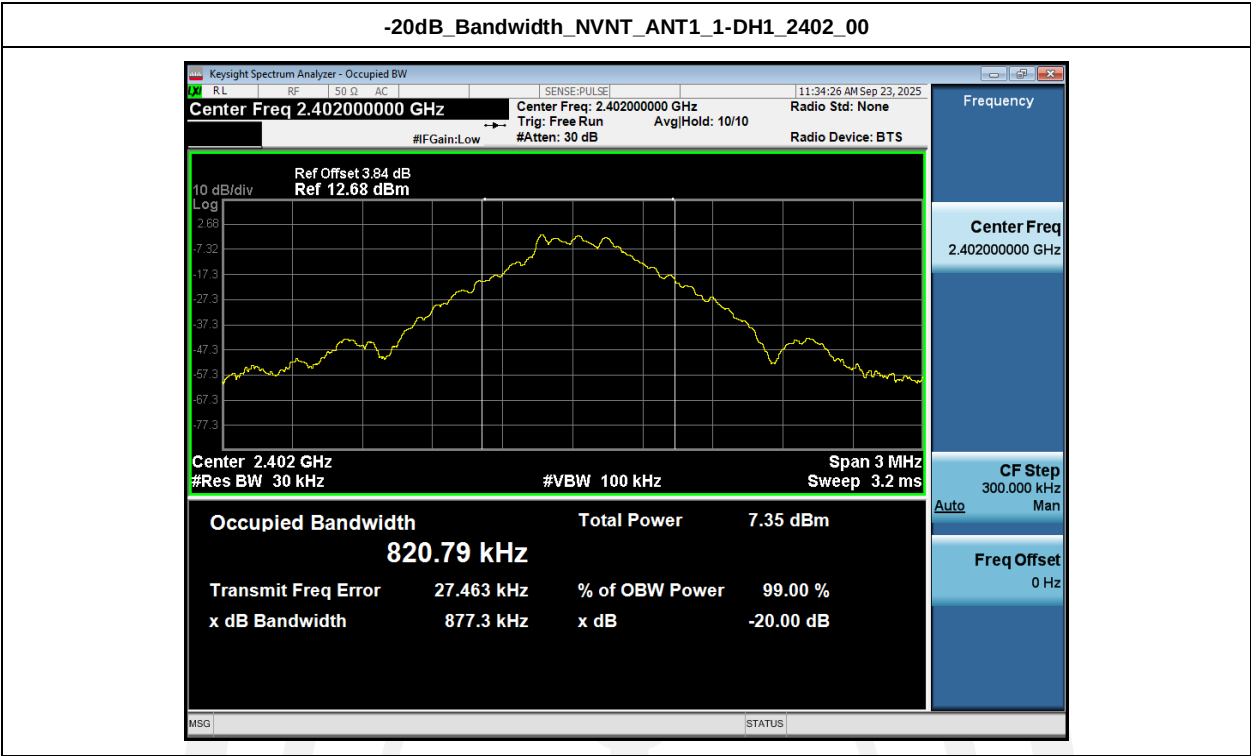
4.2. Test Procedure

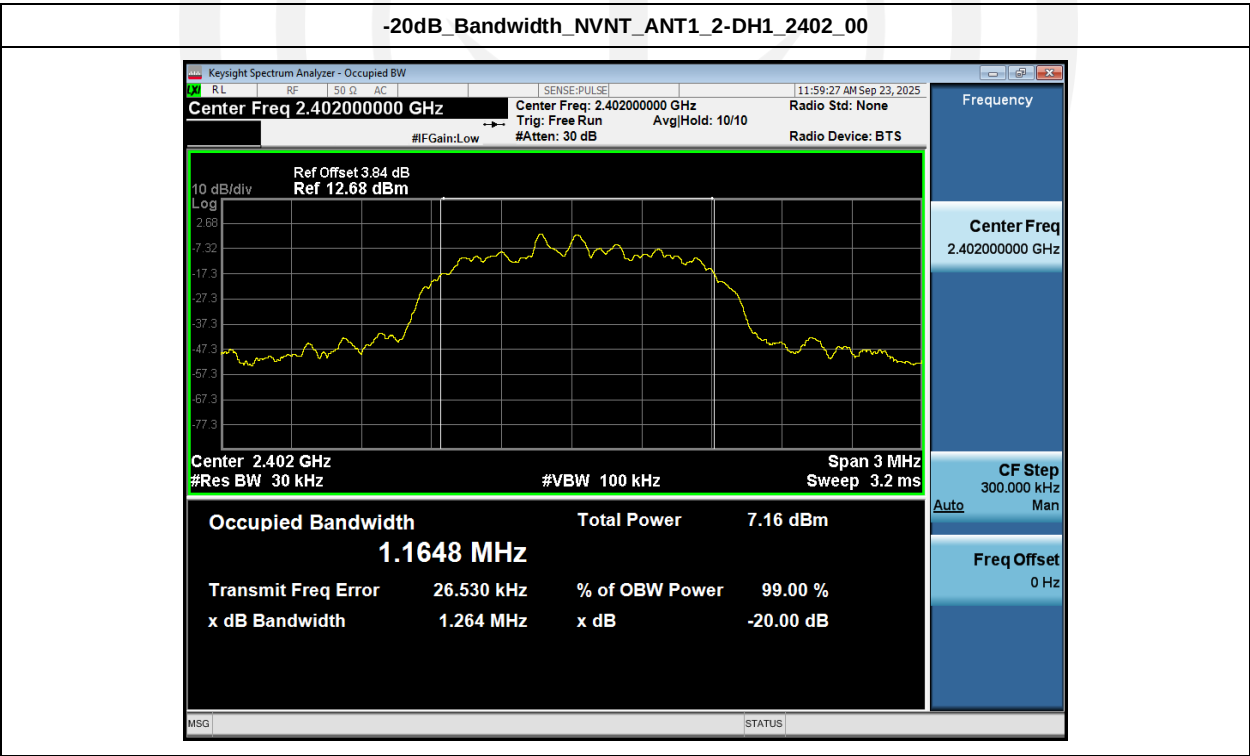
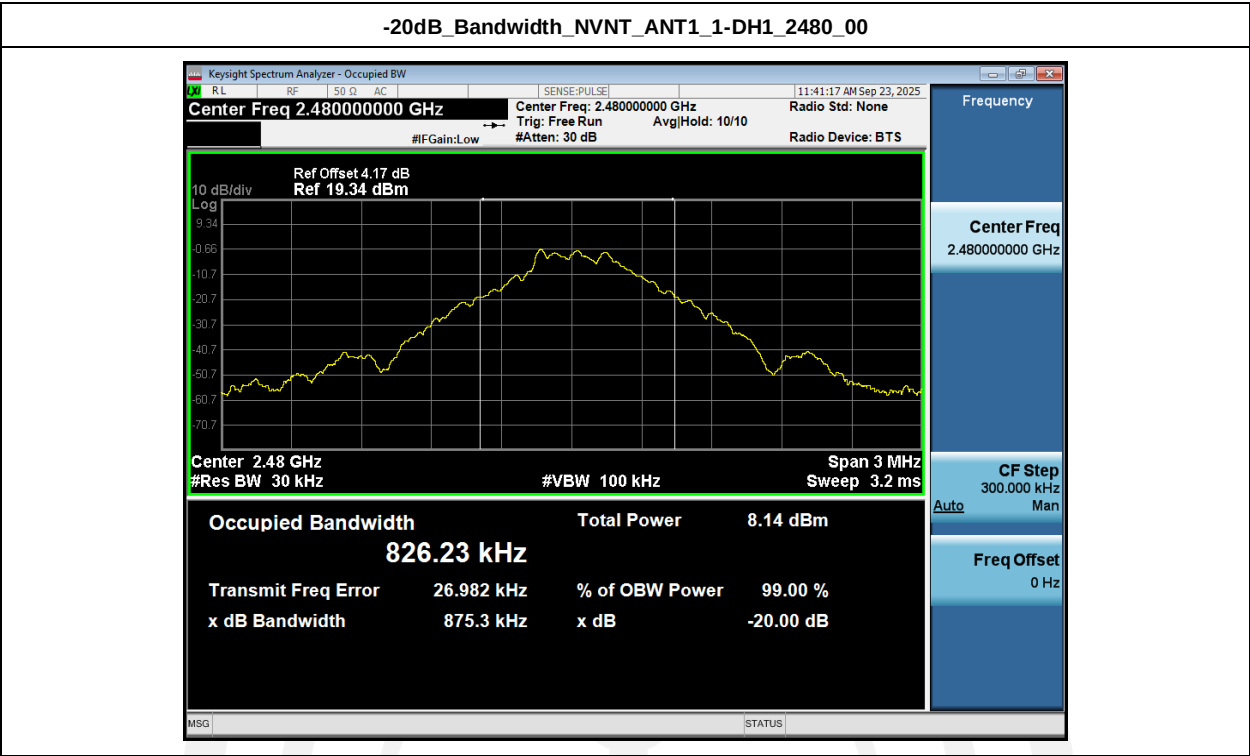
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

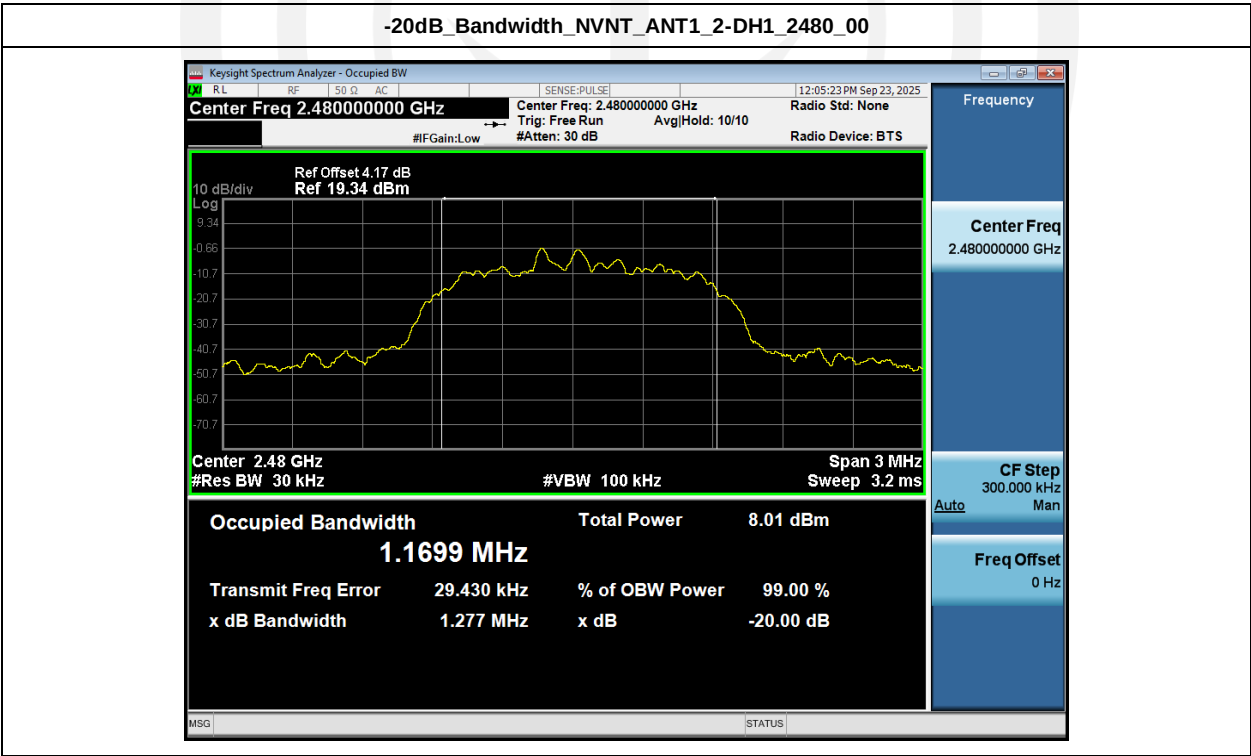
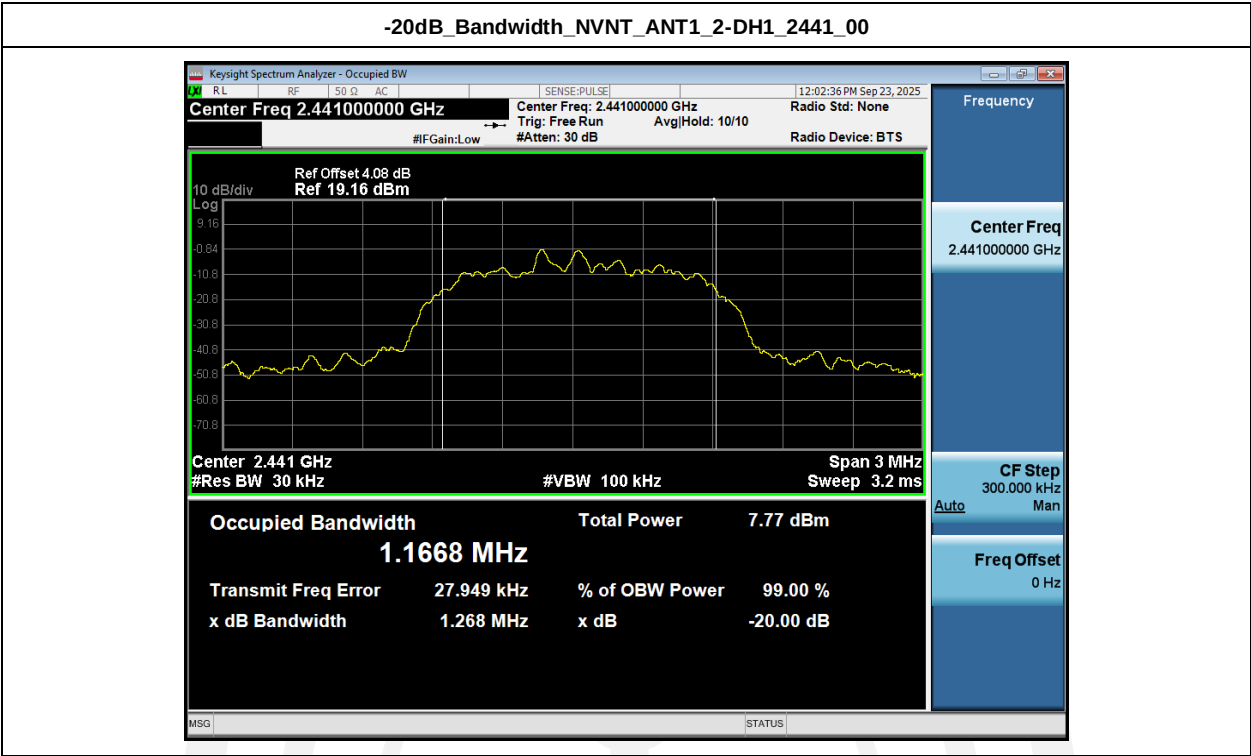
4.3. Test Result

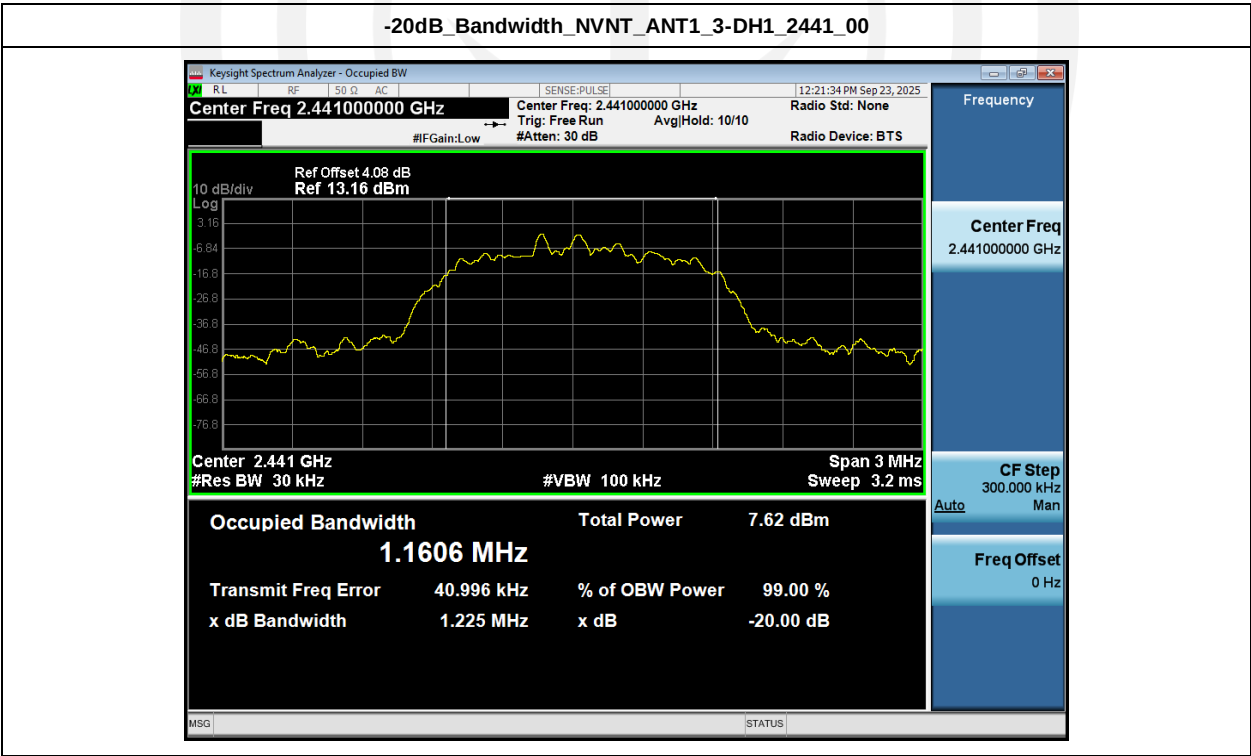
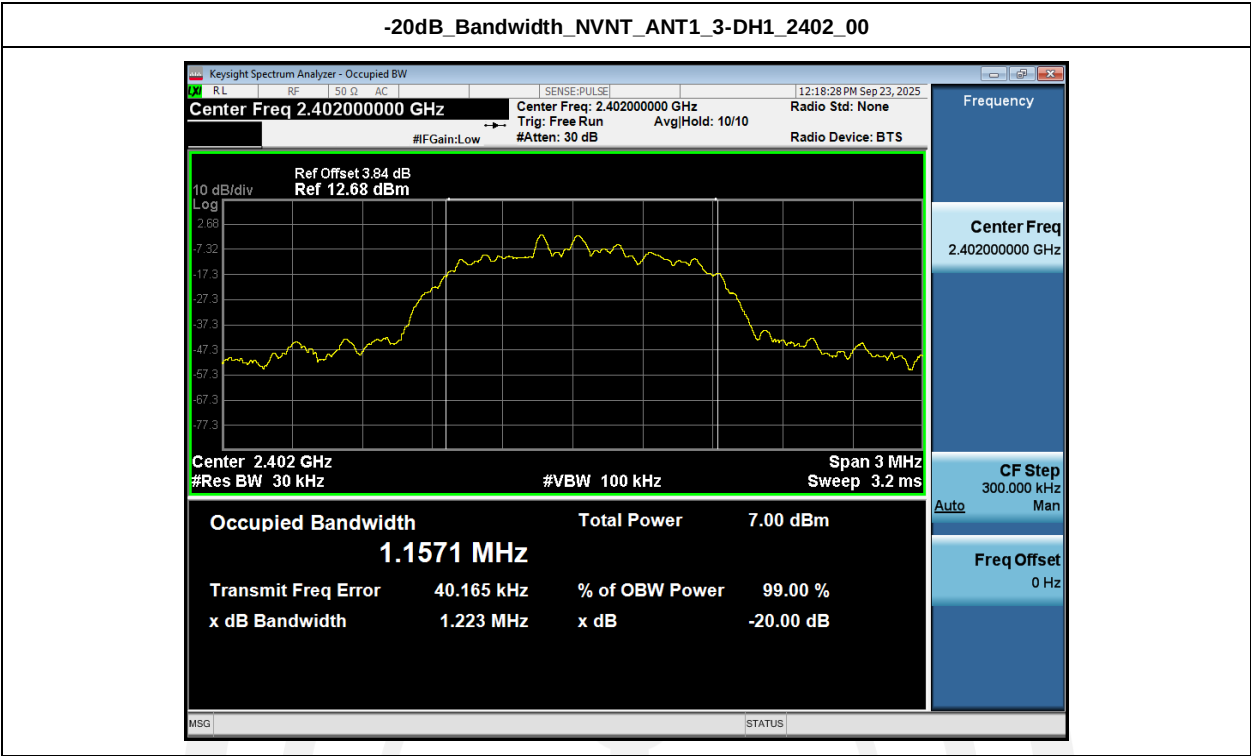
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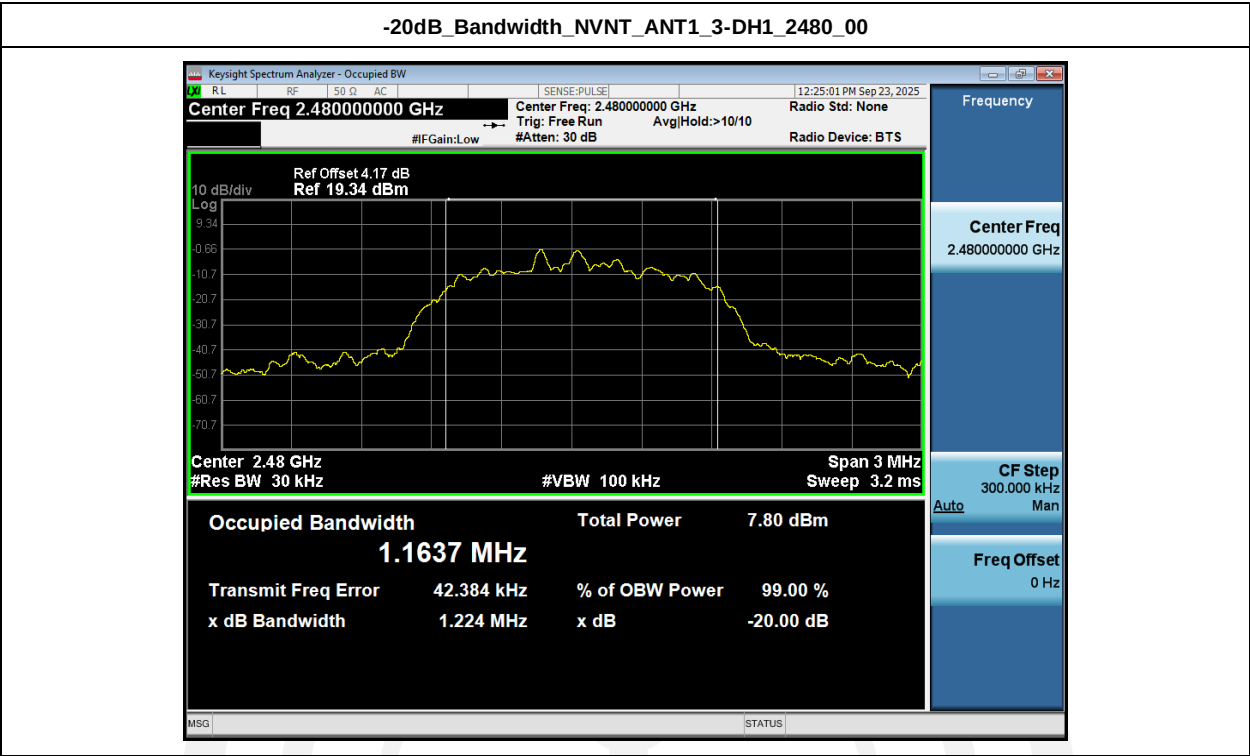
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.877	No
NVNT	ANT1	1-DH1	2441.00	0.876	No
NVNT	ANT1	1-DH1	2480.00	0.875	No
NVNT	ANT1	2-DH1	2402.00	1.264	Yes
NVNT	ANT1	2-DH1	2441.00	1.268	Yes
NVNT	ANT1	2-DH1	2480.00	1.277	Yes
NVNT	ANT1	3-DH1	2402.00	1.223	Yes
NVNT	ANT1	3-DH1	2441.00	1.225	Yes
NVNT	ANT1	3-DH1	2480.00	1.224	Yes







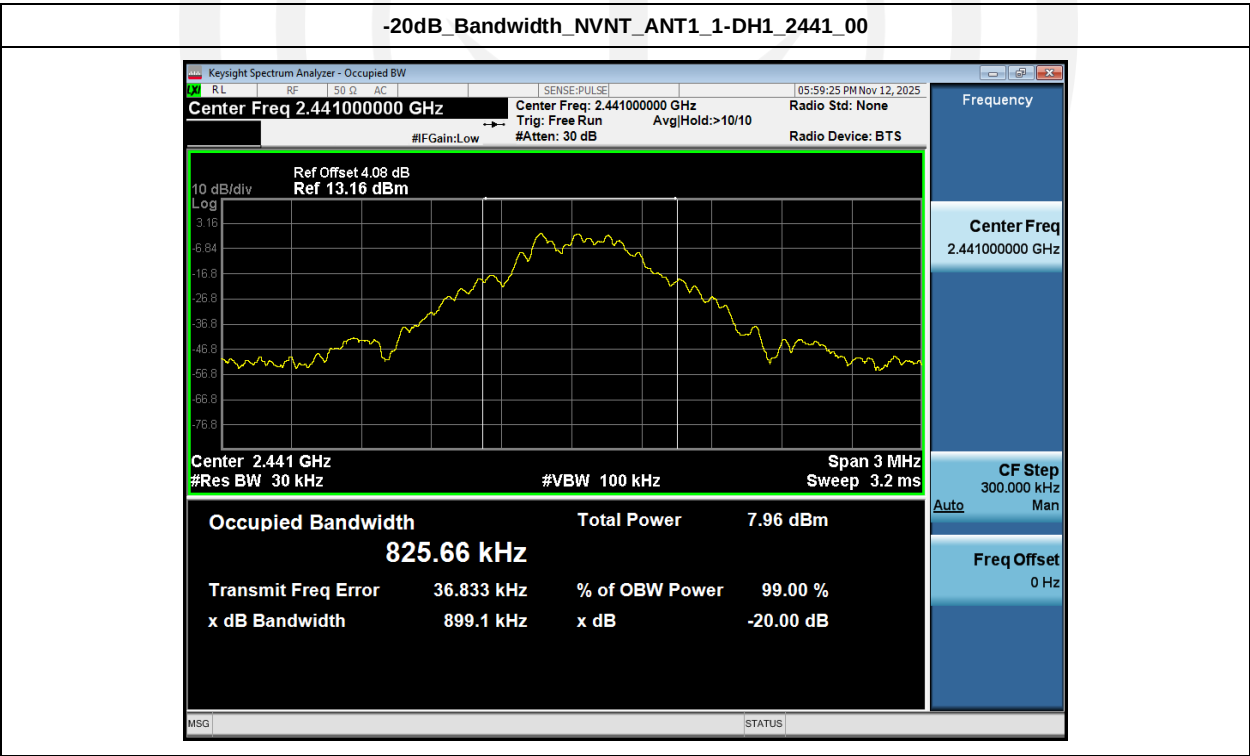
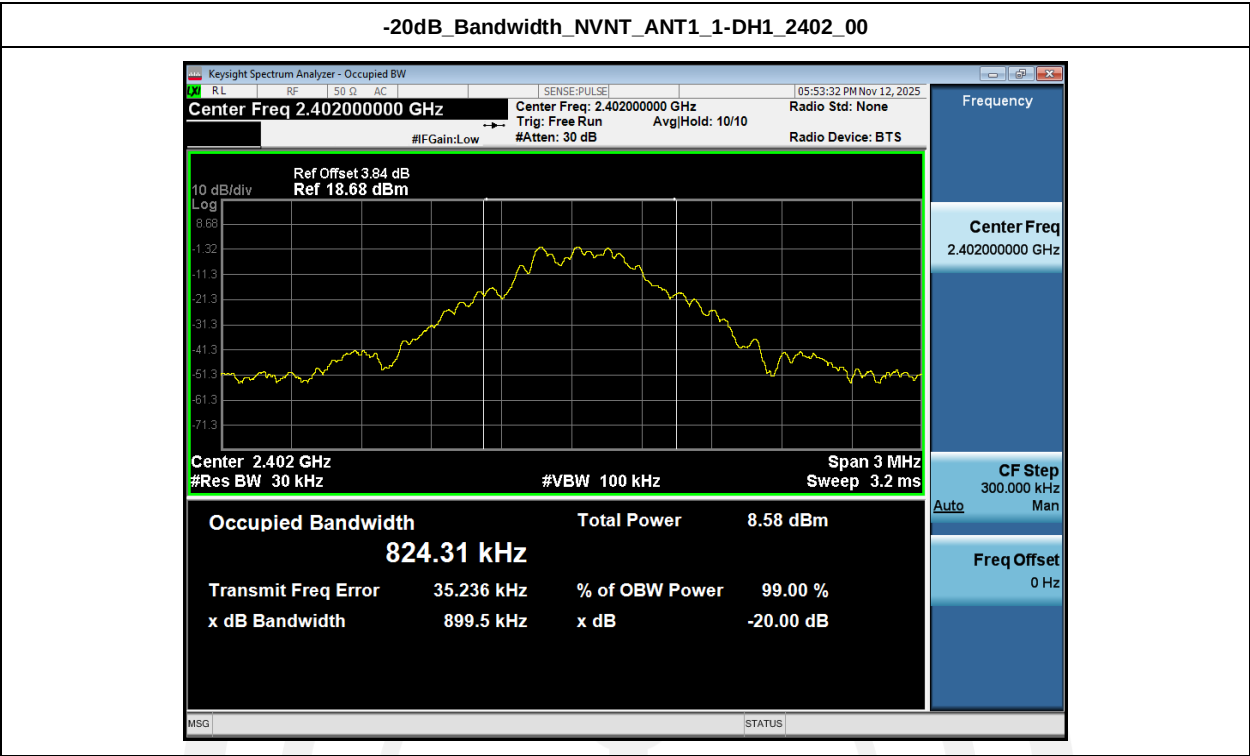


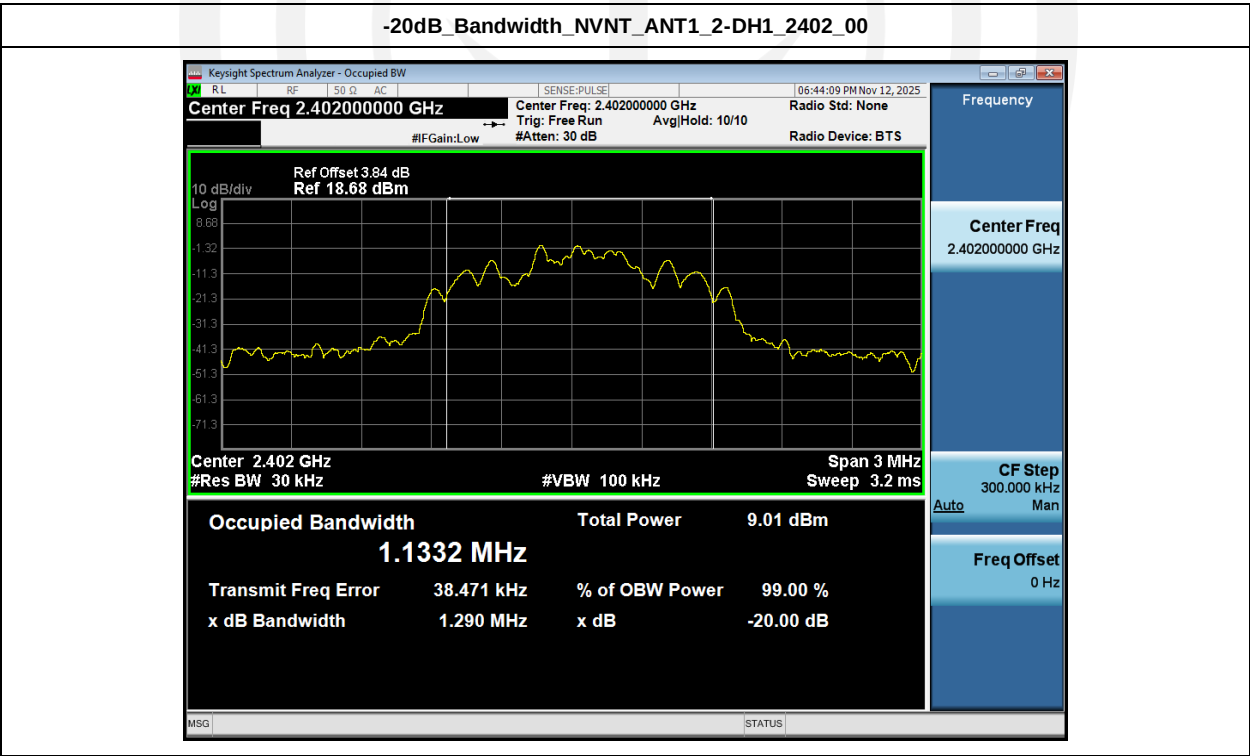
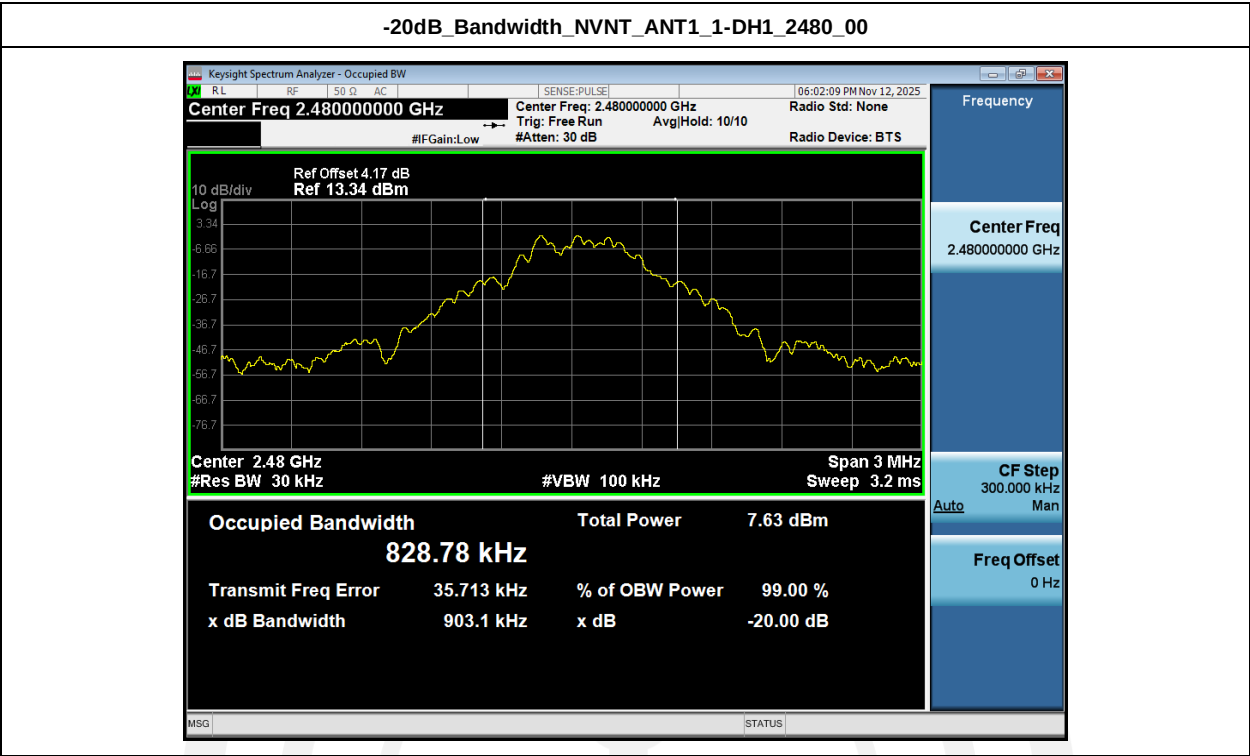


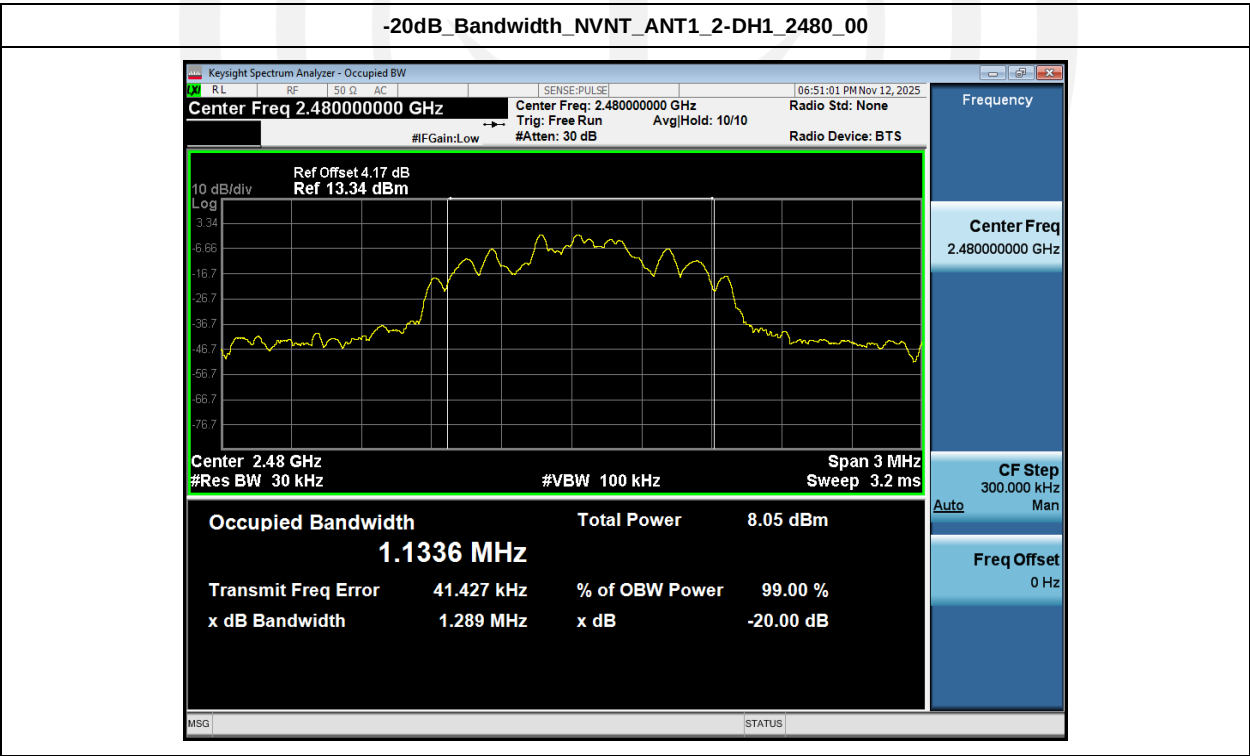
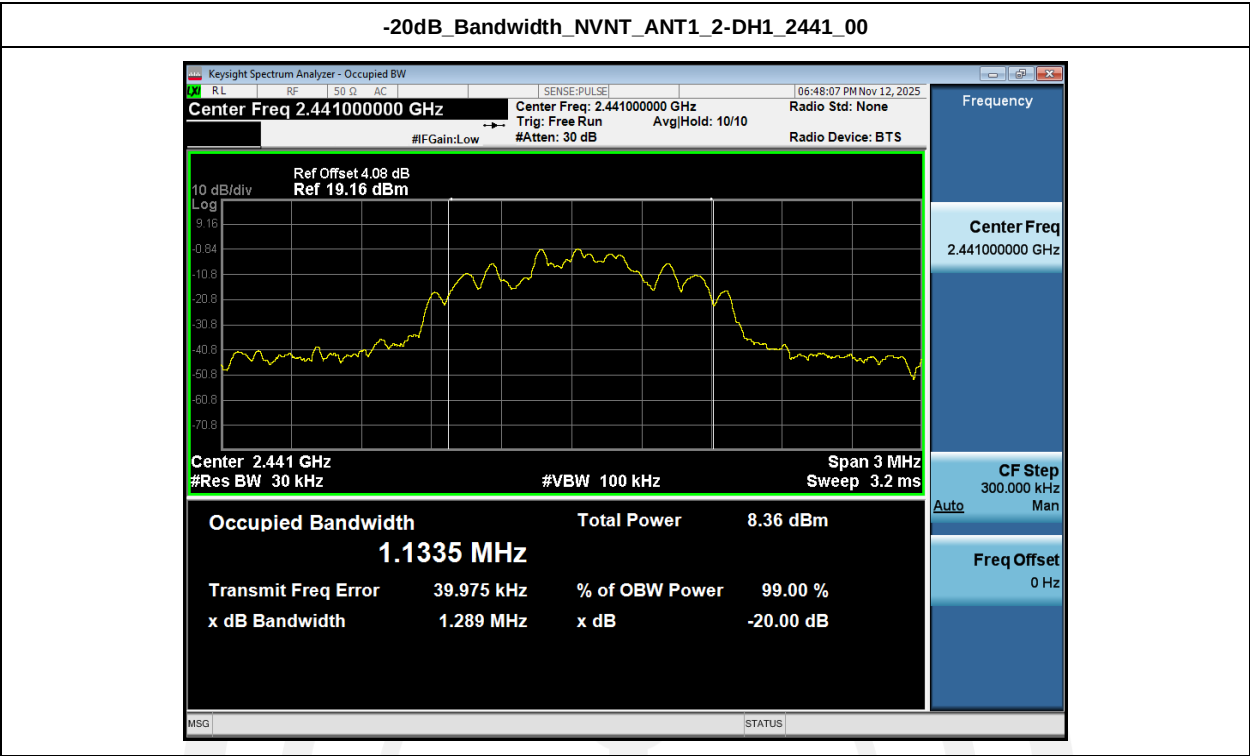
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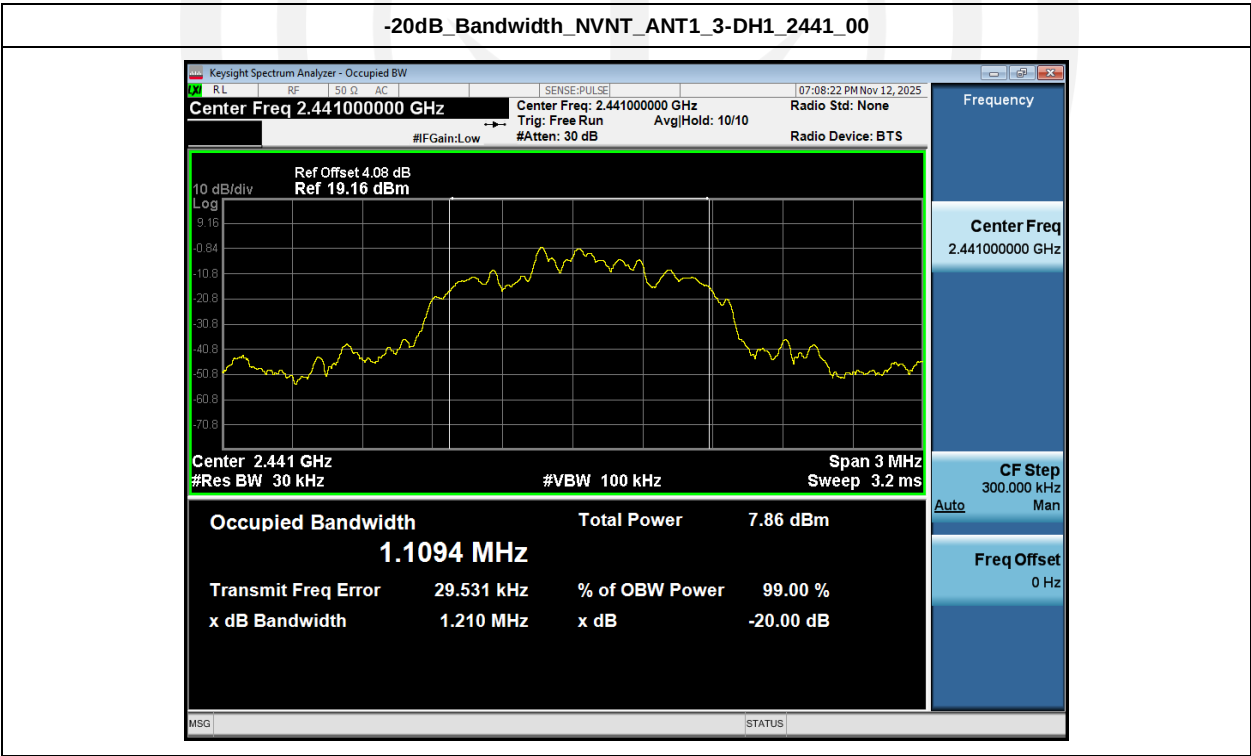
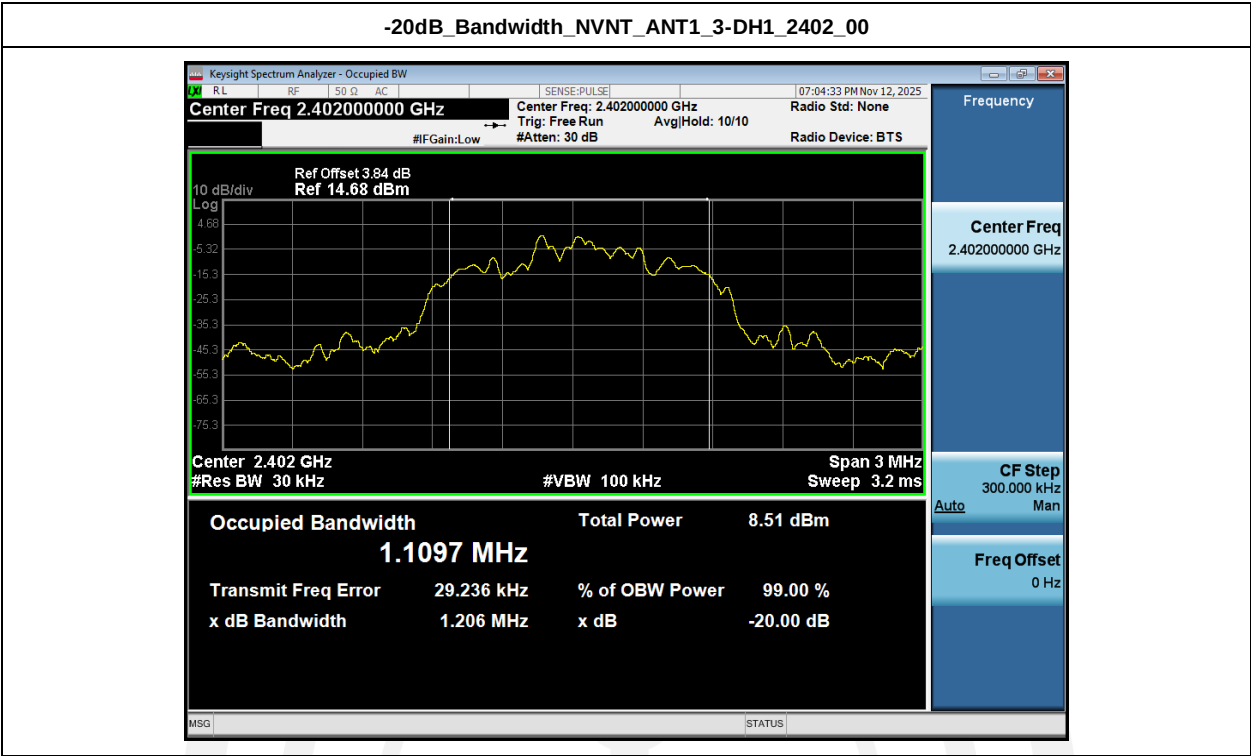
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.900	No
NVNT	ANT1	1-DH1	2441.00	0.899	No
NVNT	ANT1	1-DH1	2480.00	0.903	No
NVNT	ANT1	2-DH1	2402.00	1.290	Yes
NVNT	ANT1	2-DH1	2441.00	1.289	Yes
NVNT	ANT1	2-DH1	2480.00	1.289	Yes
NVNT	ANT1	3-DH1	2402.00	1.206	Yes
NVNT	ANT1	3-DH1	2441.00	1.210	Yes
NVNT	ANT1	3-DH1	2480.00	1.211	Yes

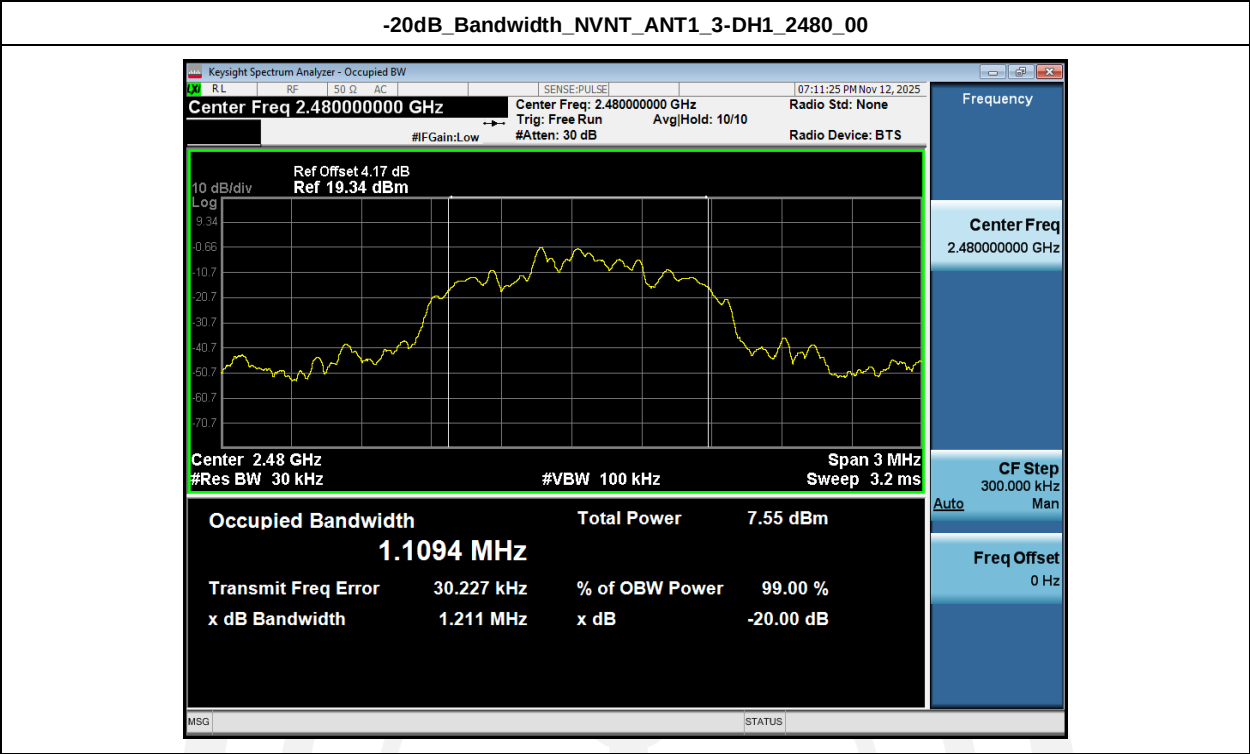








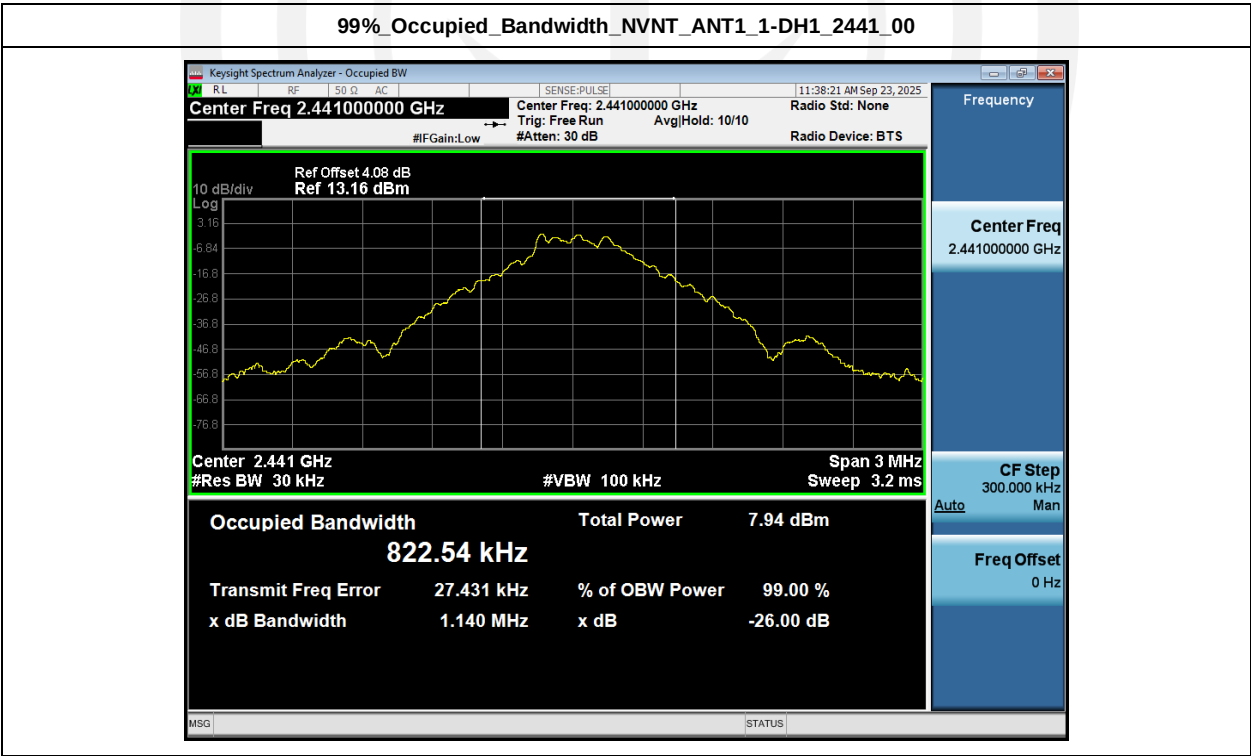
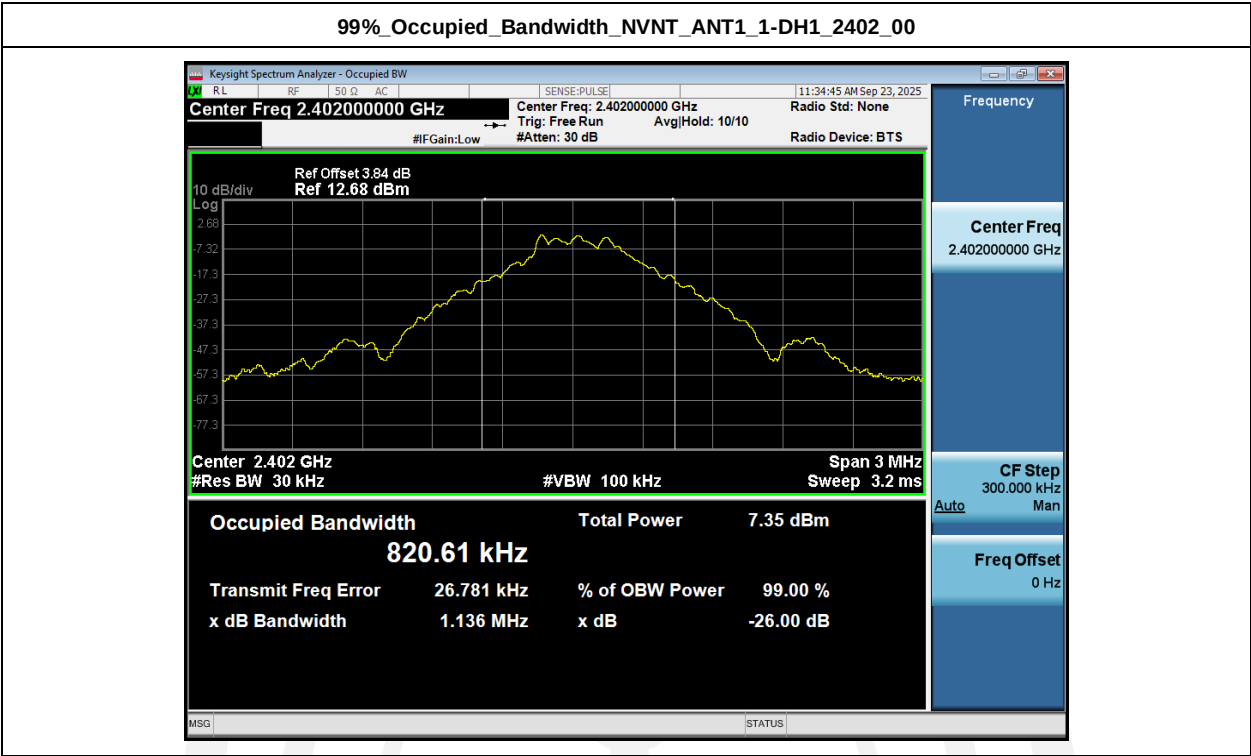




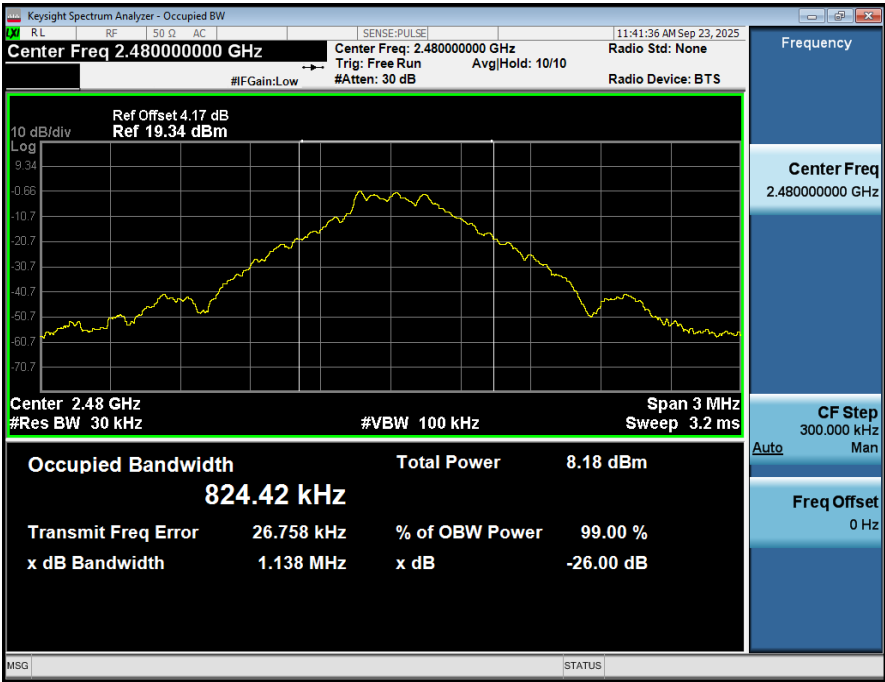
Right:

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.821
NVNT	ANT1	1-DH1	2441.00	0.823
NVNT	ANT1	1-DH1	2480.00	0.824
NVNT	ANT1	2-DH1	2402.00	1.165
NVNT	ANT1	2-DH1	2441.00	1.167
NVNT	ANT1	2-DH1	2480.00	1.170
NVNT	ANT1	3-DH1	2402.00	1.158
NVNT	ANT1	3-DH1	2441.00	1.160
NVNT	ANT1	3-DH1	2480.00	1.163

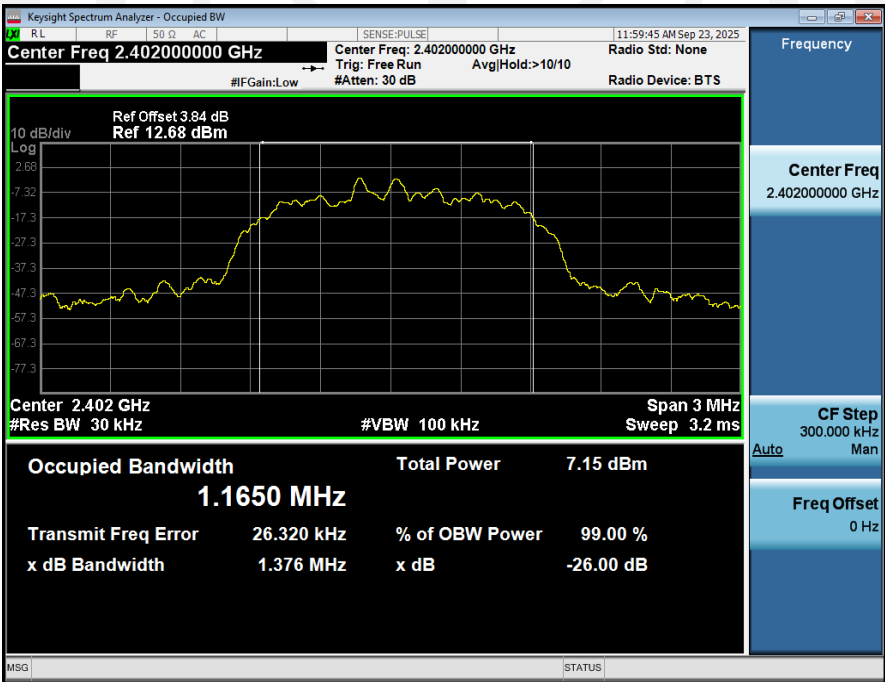


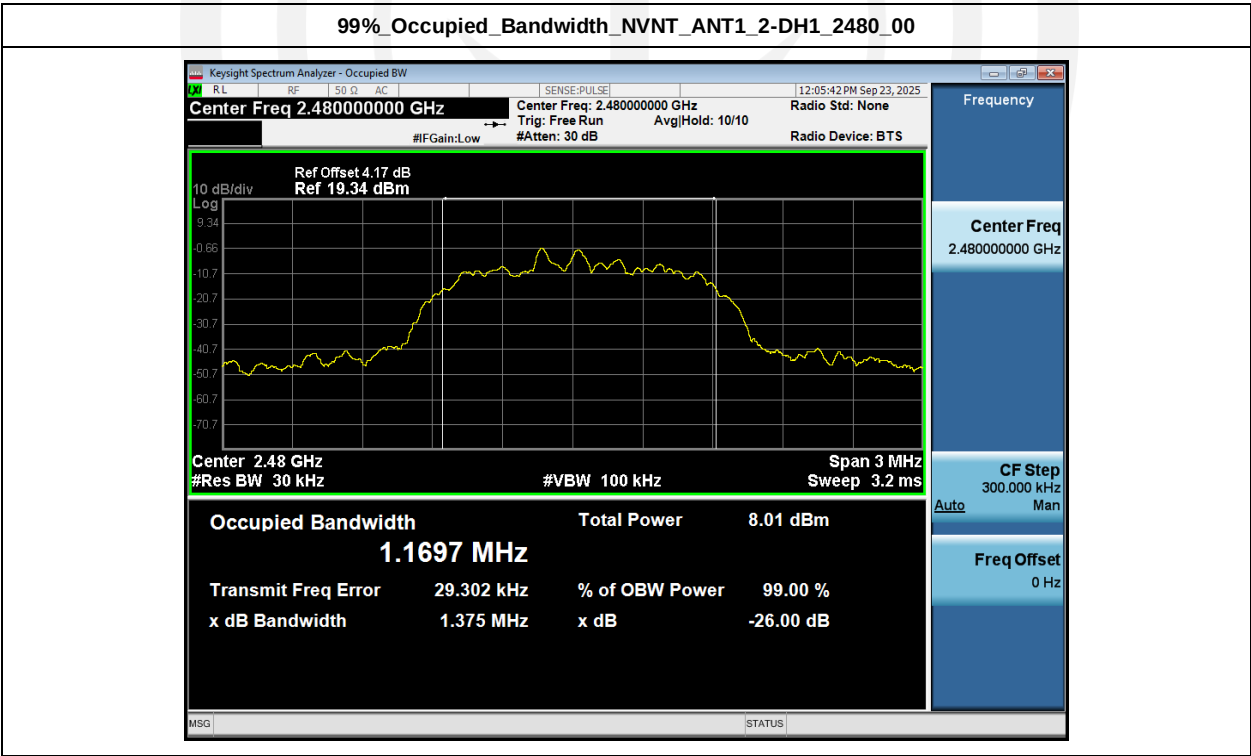
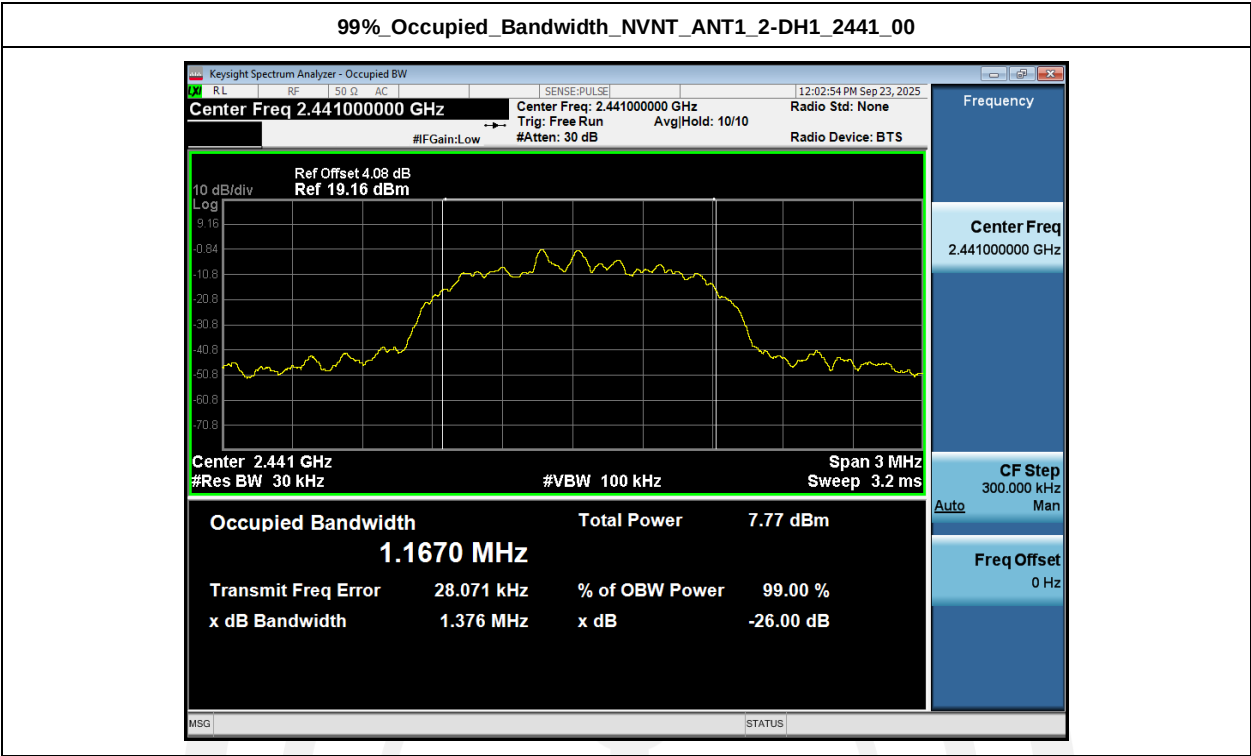


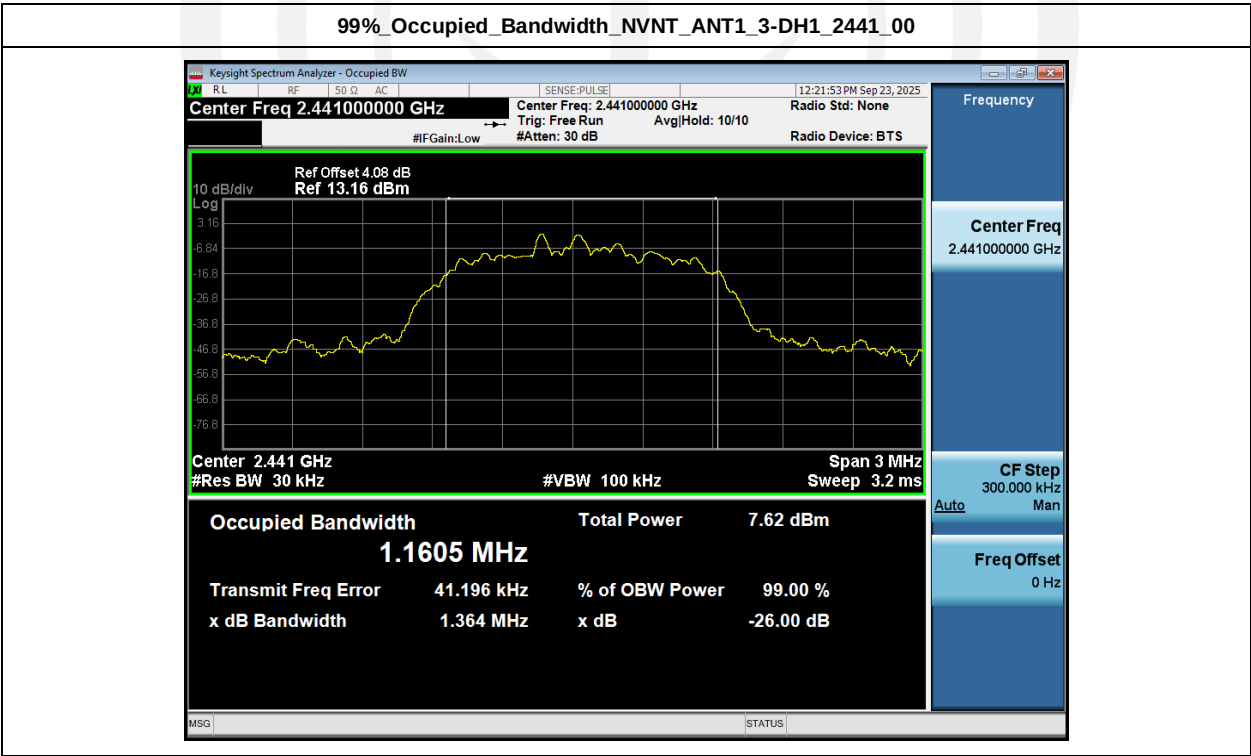
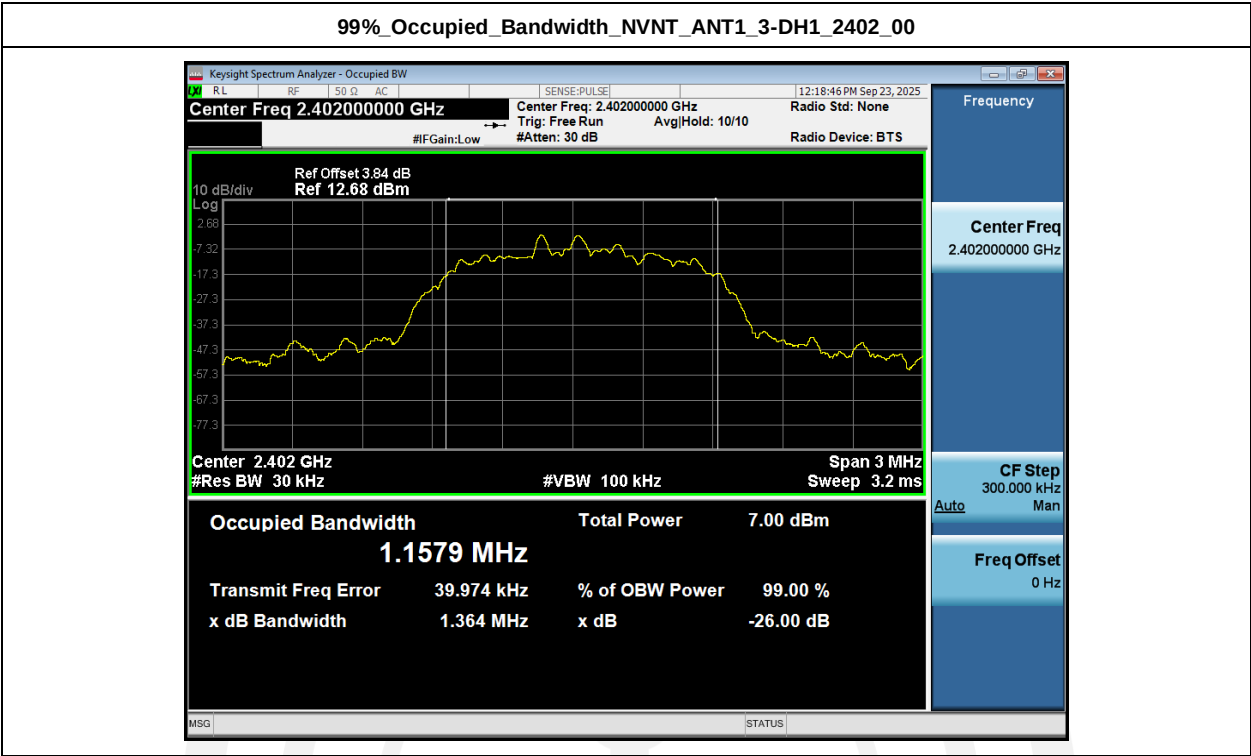
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480_00

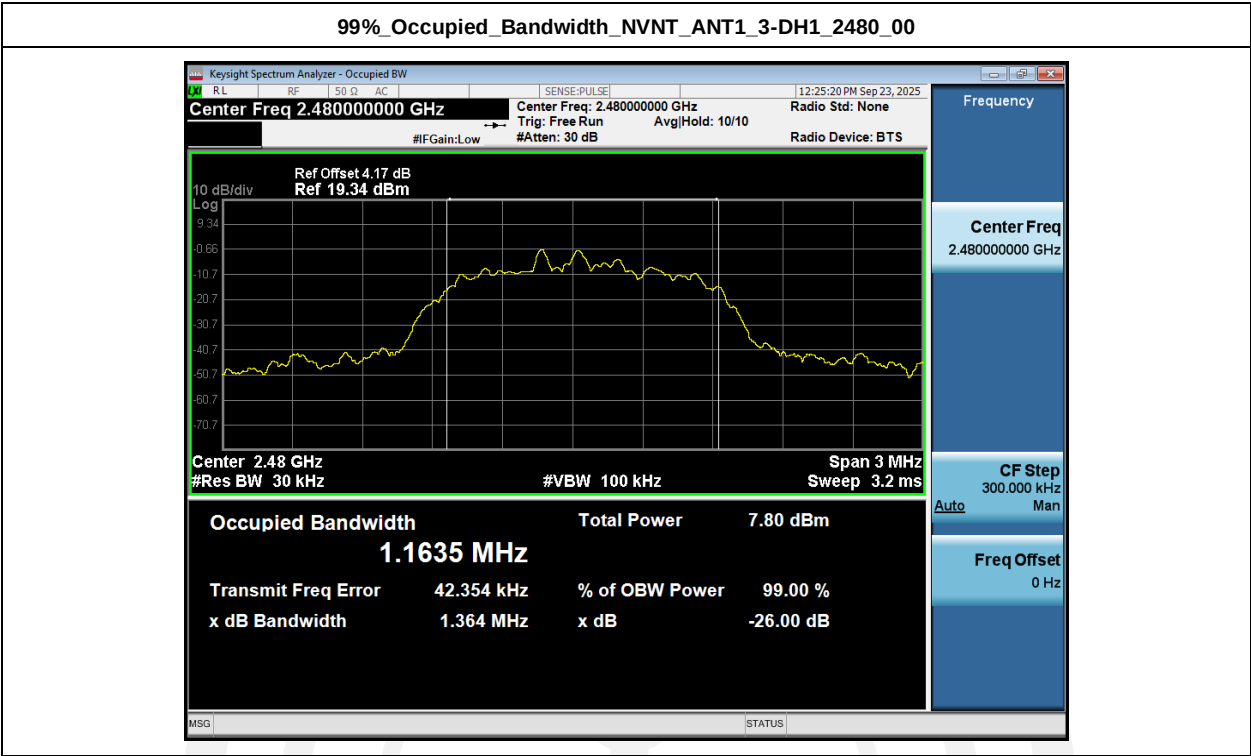


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402_00









Left:

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.824
NVNT	ANT1	1-DH1	2441.00	0.824
NVNT	ANT1	1-DH1	2480.00	0.827
NVNT	ANT1	2-DH1	2402.00	1.137
NVNT	ANT1	2-DH1	2441.00	1.134
NVNT	ANT1	2-DH1	2480.00	1.137
NVNT	ANT1	3-DH1	2402.00	1.109
NVNT	ANT1	3-DH1	2441.00	1.109
NVNT	ANT1	3-DH1	2480.00	1.108



99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2402_00



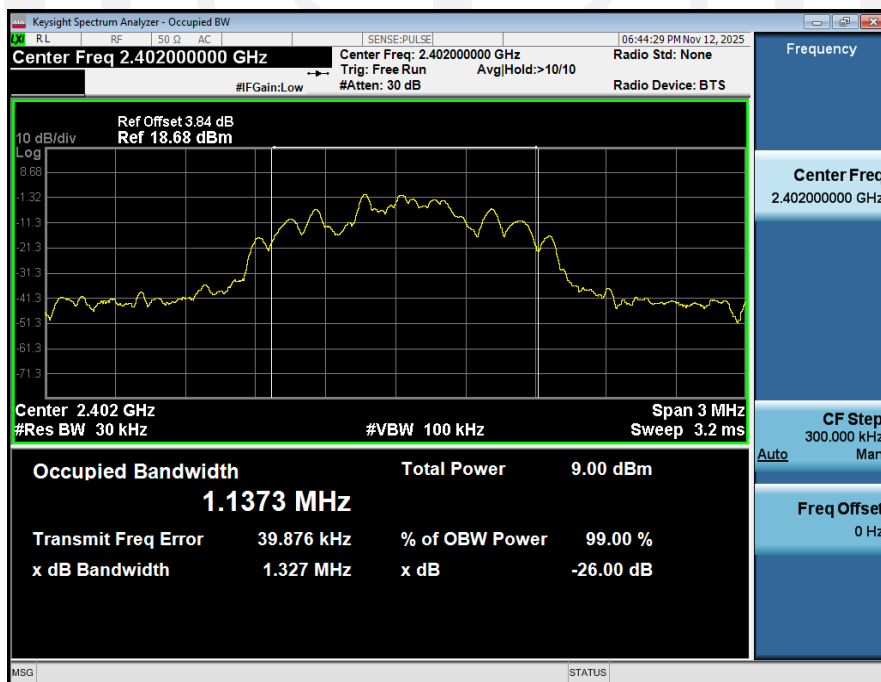
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00



99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480_00



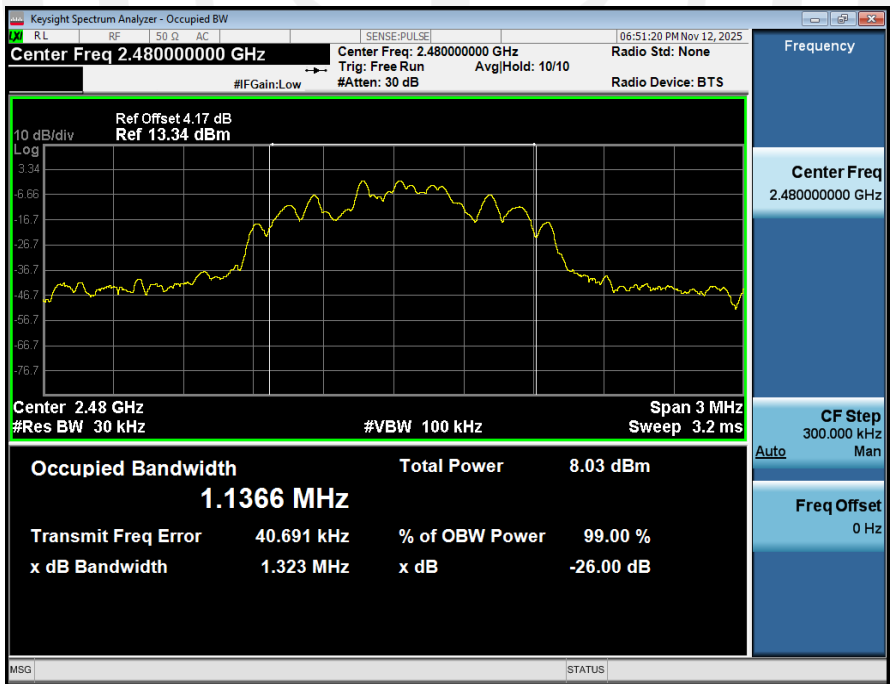
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441_00



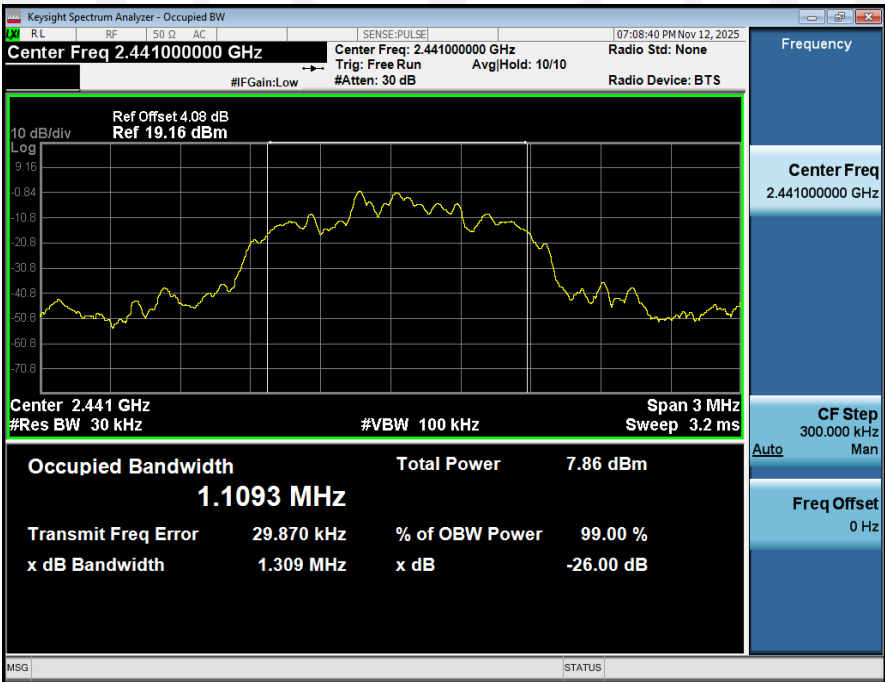
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00

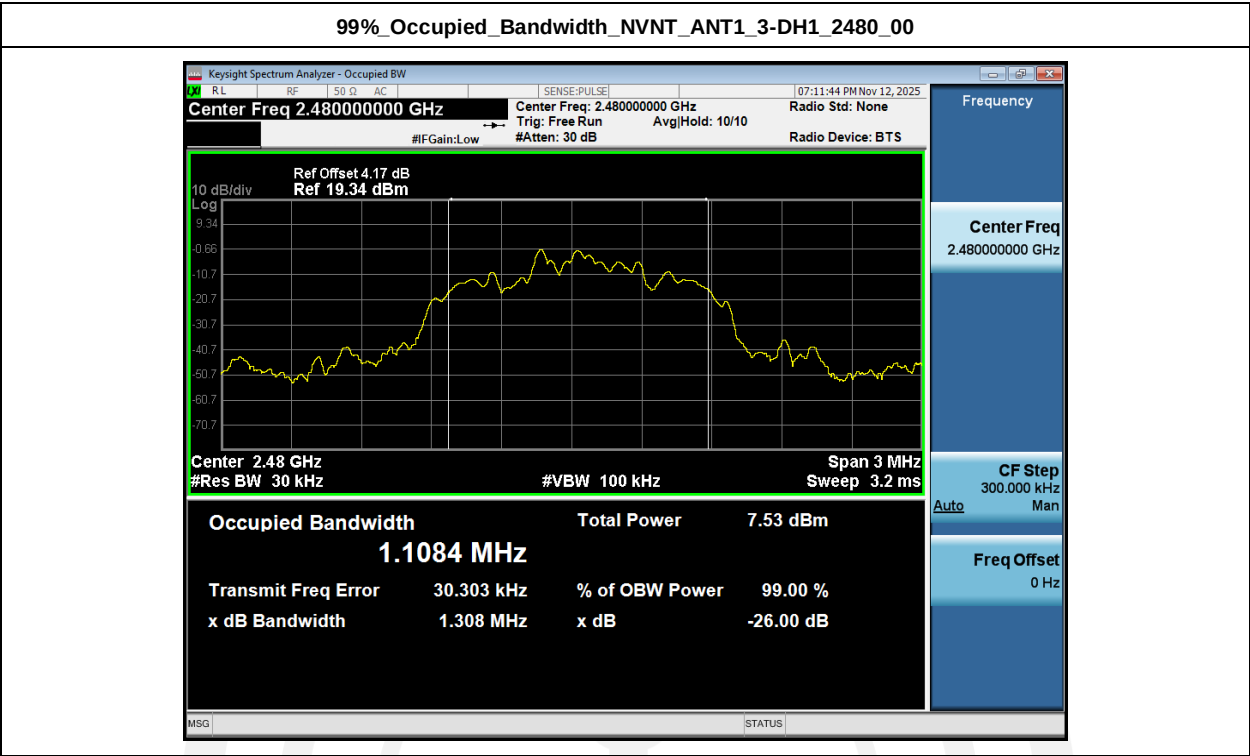


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_00





5. Carrier Frequency Separation

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

Please refer FCC part 15.247 & RSS-247.

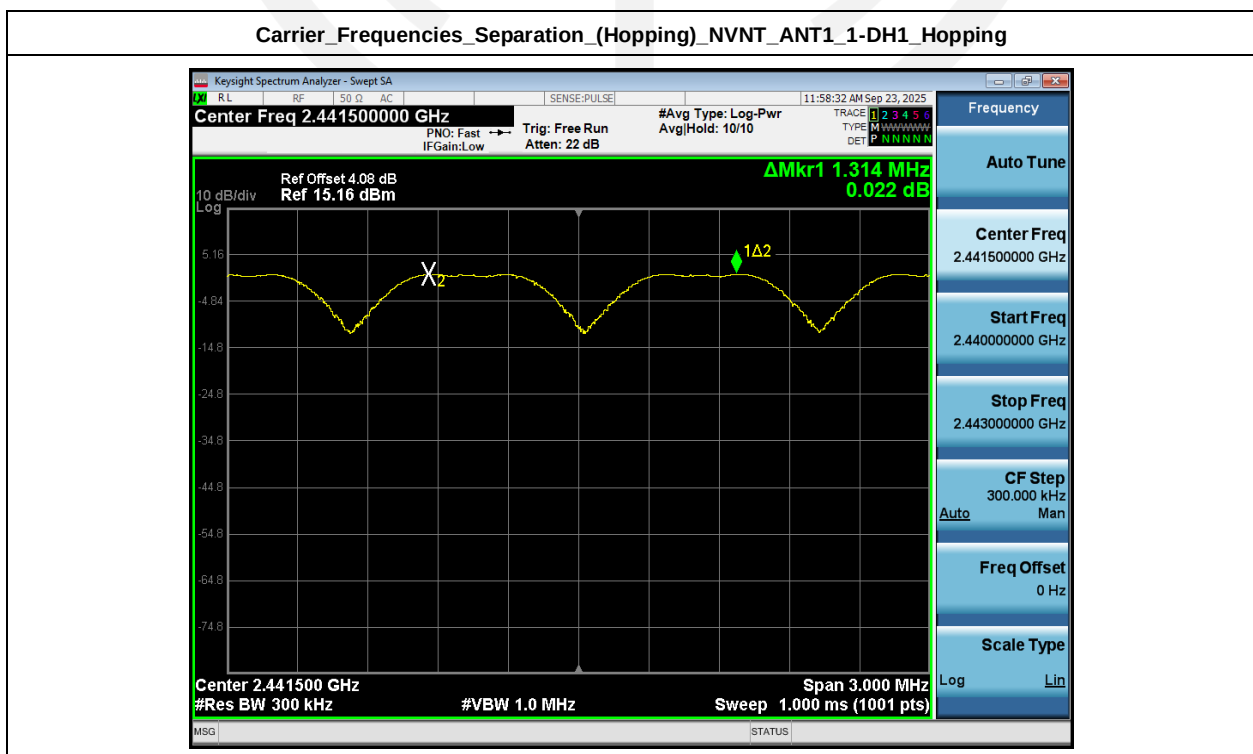
5.2. Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The carrier frequency was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW.

5.3. Test Result

Right:

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2441.00	2440.861	2442.175	1.31	0.876	Pass
NVNT	ANT1	2-DH1	2441.00	2440.876	2442.025	1.15	0.845	Pass
NVNT	ANT1	3-DH1	2441.00	2441.020	2442.013	0.99	0.817	Pass



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



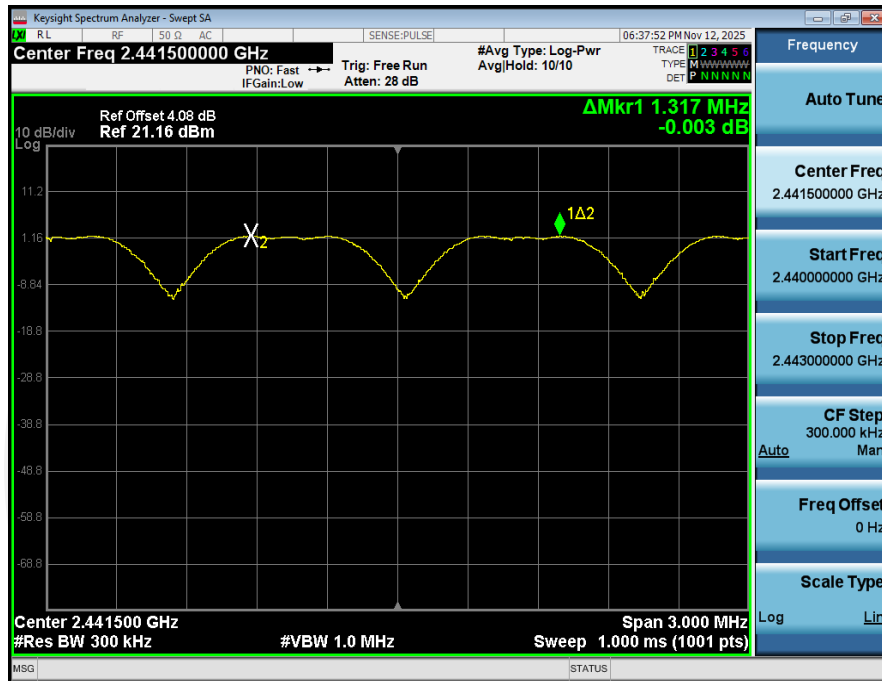
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



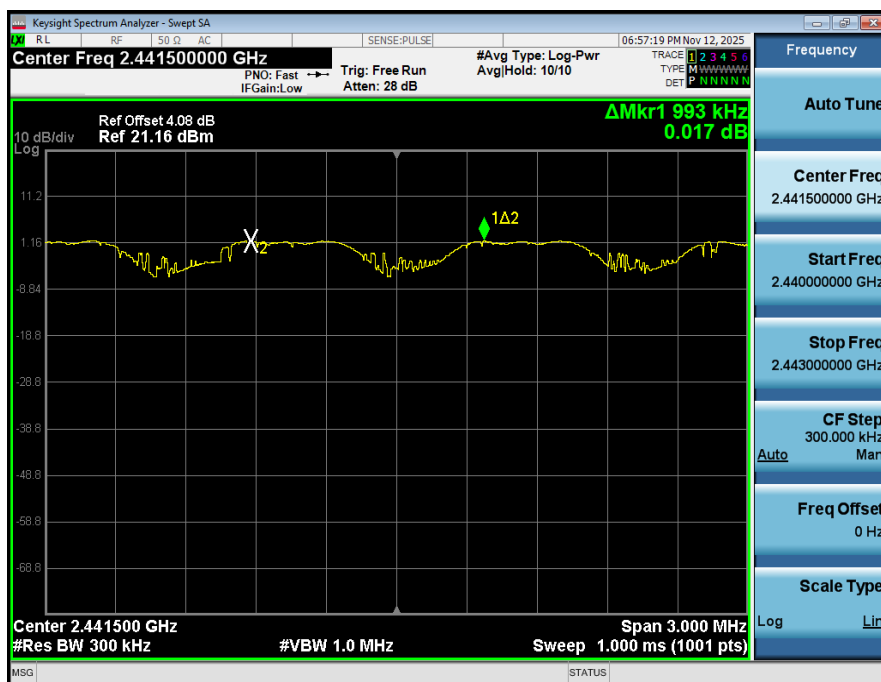
Left:

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH1	2441.00	2440.876	2442.193	1.32	0.899	Pass
NVNT	ANT1	2-DH1	2441.00	2440.879	2441.872	0.99	0.859	Pass
NVNT	ANT1	3-DH1	2441.00	2440.864	2442.199	1.33	0.807	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping



6. Number Of Hopping Channel

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Please refer FCC part 15.247 & RSS-247.

6.2. Test Procedure

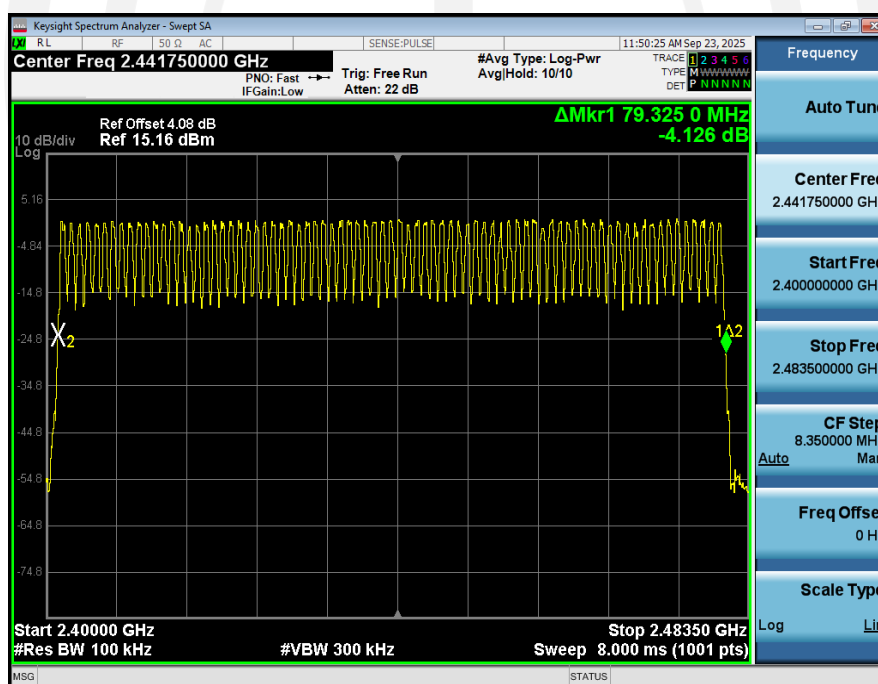
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The number of hopping channel was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW.

6.3. Test Result

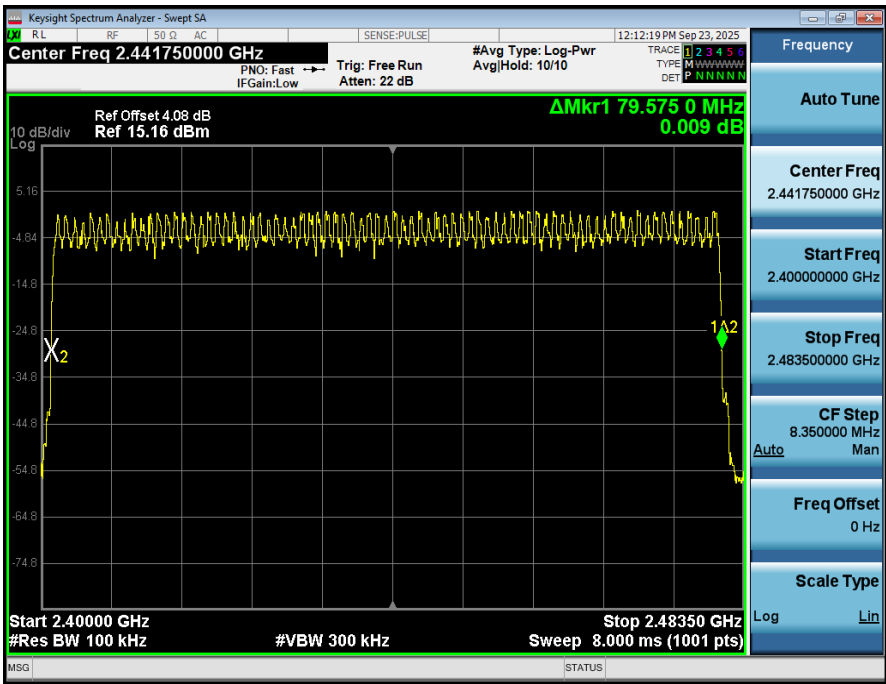
Right:

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass

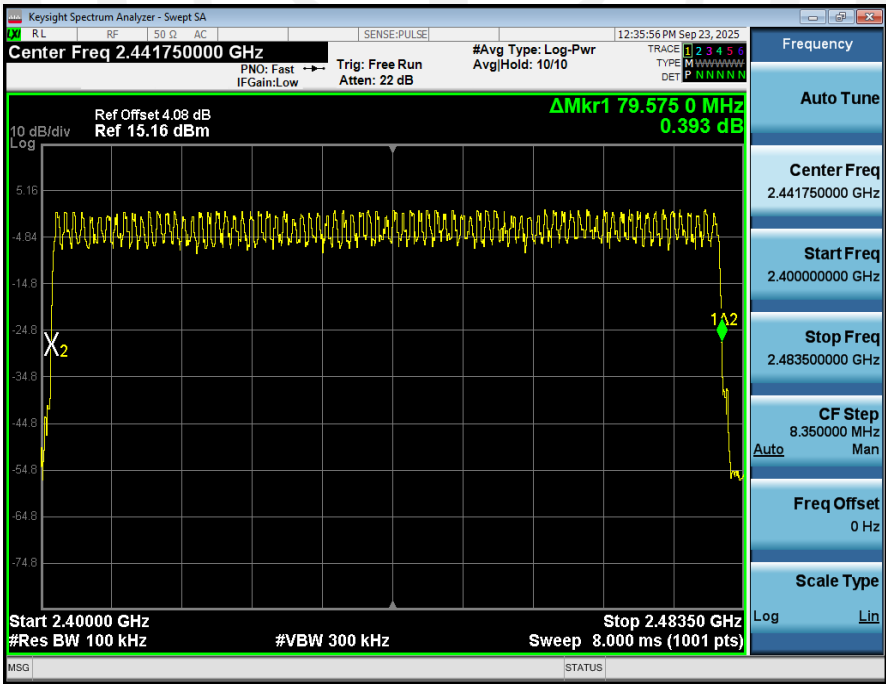
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping

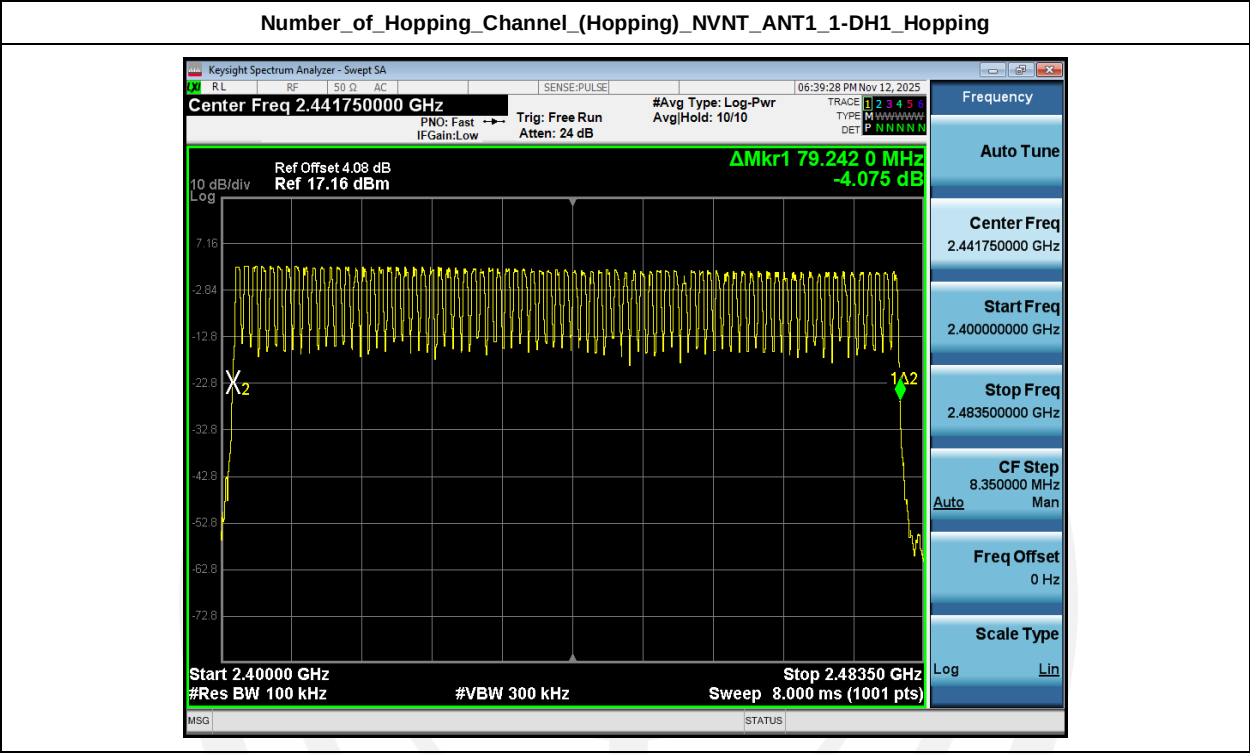


Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping

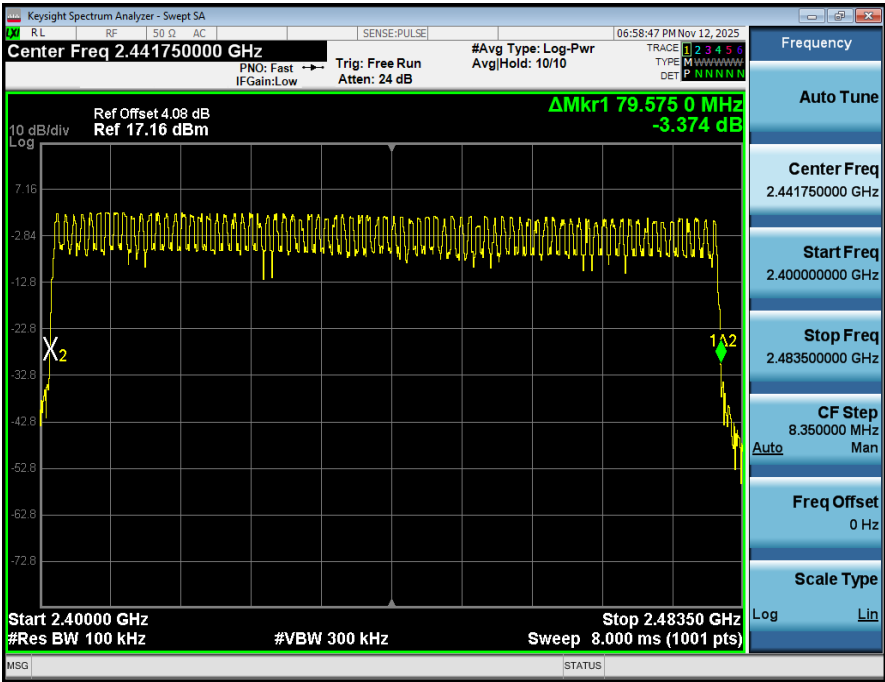


Left:

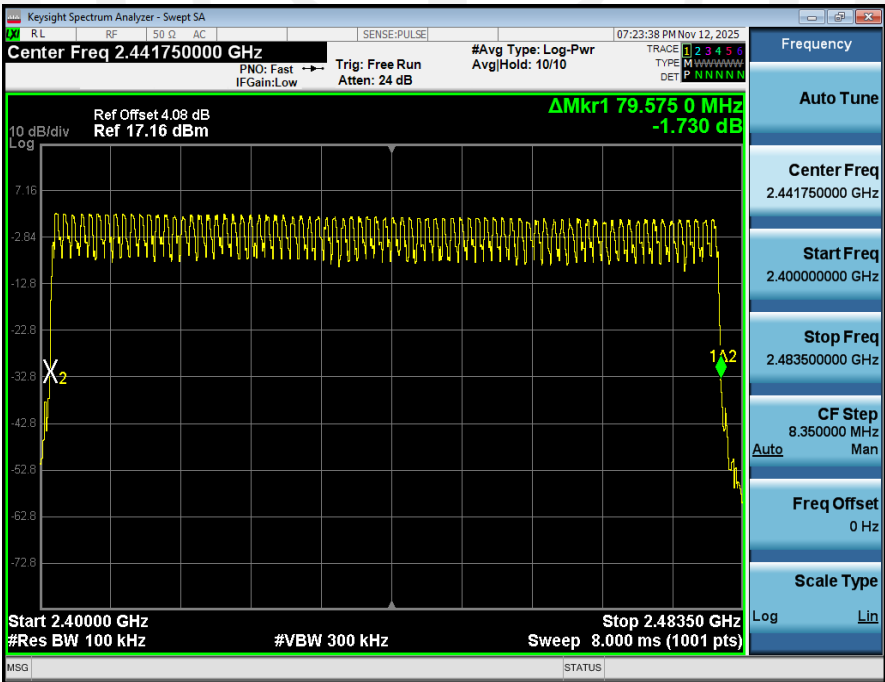
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping



7. Dwell Time

7.1. Test limit

Please refer FCC part 15.247 & RSS-247.

Frequency hopping systems operating in the 2400MHz-2483.5MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

7.2. Test Procedure

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. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW=1MHz, VBW=1MHz, Span = 0Hz, Sweep = auto.

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

7.2.6. The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

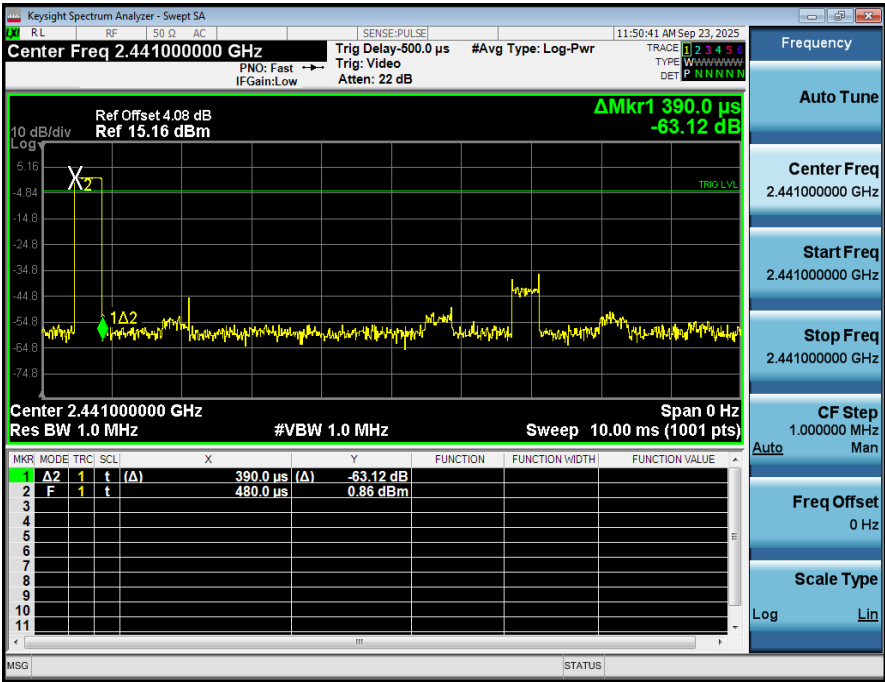
7.2.7. Dwell Time=Pulse Time* Hops Number

7.3. Test Result

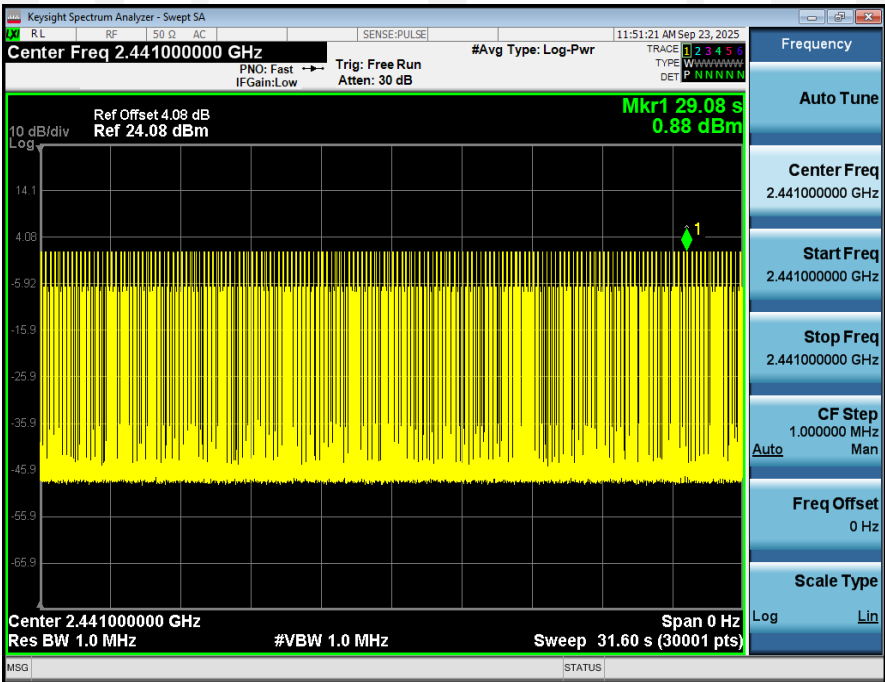
Right:

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.390	319.00	124.410	0.40	Pass
NVNT	ANT1	2-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	3-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	1-DH3	1.650	153.00	252.450	0.40	Pass
NVNT	ANT1	1-DH5	2.890	115.00	332.350	0.40	Pass
NVNT	ANT1	2-DH3	1.650	164.00	270.600	0.40	Pass
NVNT	ANT1	2-DH5	2.900	102.00	295.800	0.40	Pass
NVNT	ANT1	3-DH3	1.650	151.00	249.150	0.40	Pass
NVNT	ANT1	3-DH5	2.900	102.00	295.800	0.40	Pass

Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



KeySight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz Trig Delay-500.0 μ s #Avg Type: Log-Pwr 12:12:34 PM Sep 23, 2025

PNO: Fast Trig: Video TYPE: W DET: P

IFGain: Low Atten: 22 dB

Ref Offset 4.08 dB Δ Mkr1 400.0 μ s
Ref 15.16 dBm -44.79 dB

10 dB/div
Log

Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 1.0 MHz Sweep 10.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	400.0 μ s	(Δ)	-44.79 dB	
2	F	1	t		480.0 μ s		-0.96 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

Auto

Freq Offset
0 Hz

Scale Type
Log Lin

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

Mkr1 26.82 s
0.97 dBm

10 dB/div
Log

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

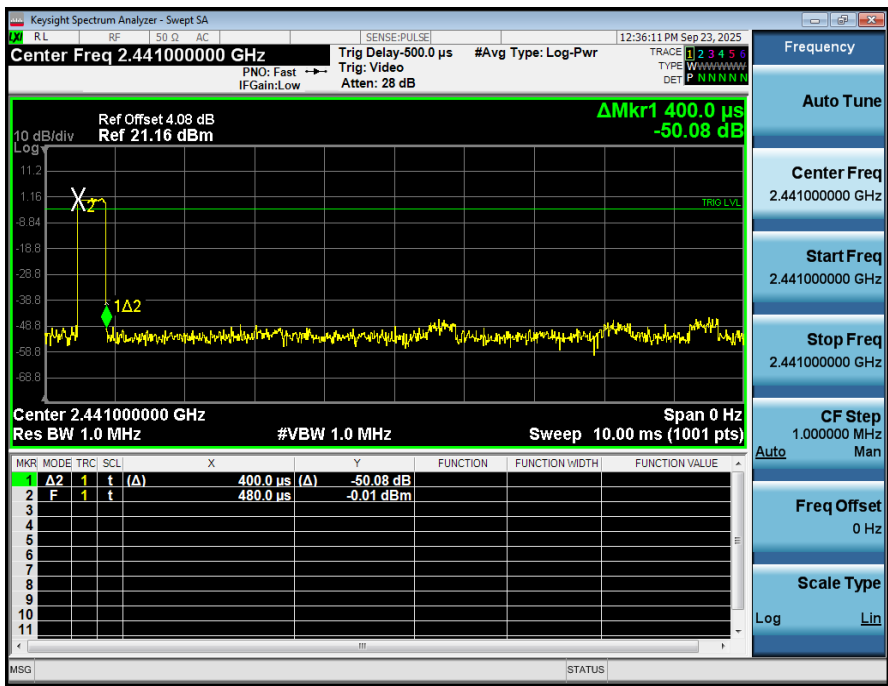
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

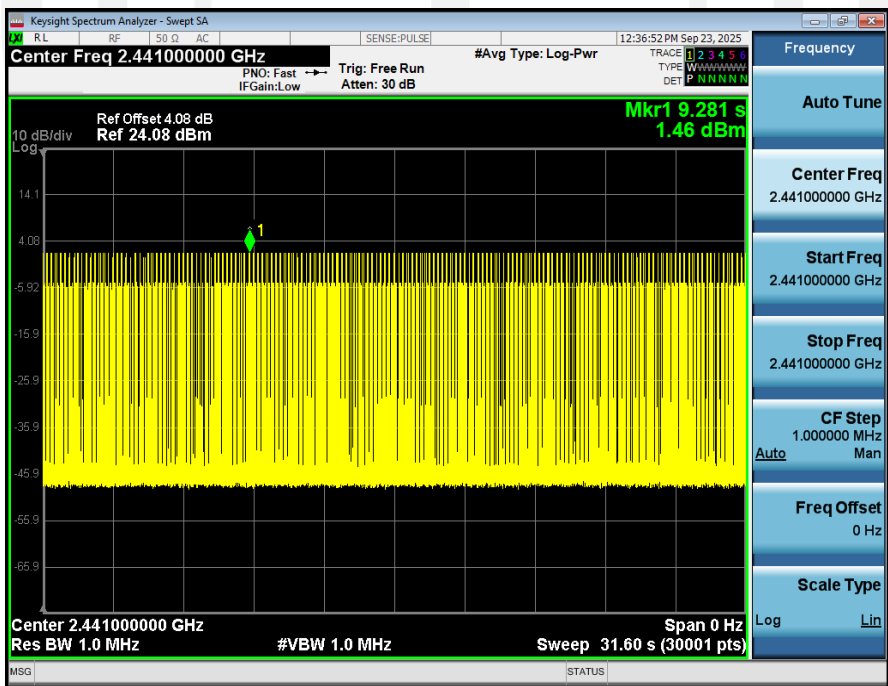
Freq Offset
0 Hz

Scale Type
Log

Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



Keysight Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s

#Avg Type: Log-Pwr

Trig: Video

ATTN: 26 dB

Ref Offset 4.08 dB

Ref 19.16 dBm

Δ Mkr1 1.650 ms

-54.08 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Sweep 10.00 ms (1001 pts)

Span 0 Hz

CF Step 1.000000 MHz

Auto

Freq Offset 0 Hz

Scale Type Log

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	1.650 ms	(Δ)	-54.08 dB	
2	F	1	t		480.0 μ s		-0.91 dBm	

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

Mkr1 7.141 s
-0.85 dBm

10 dB/div
Log

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

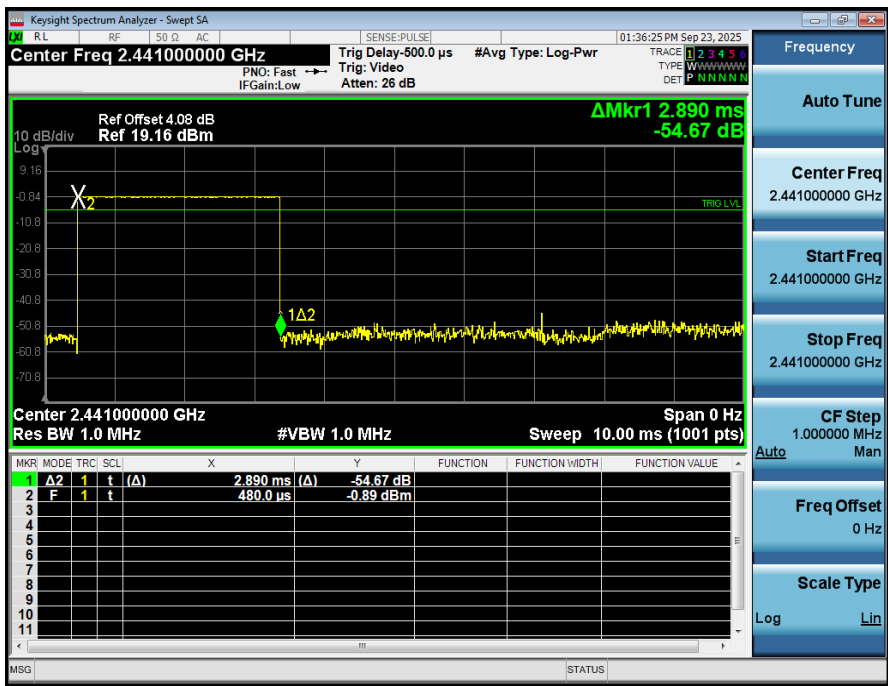
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

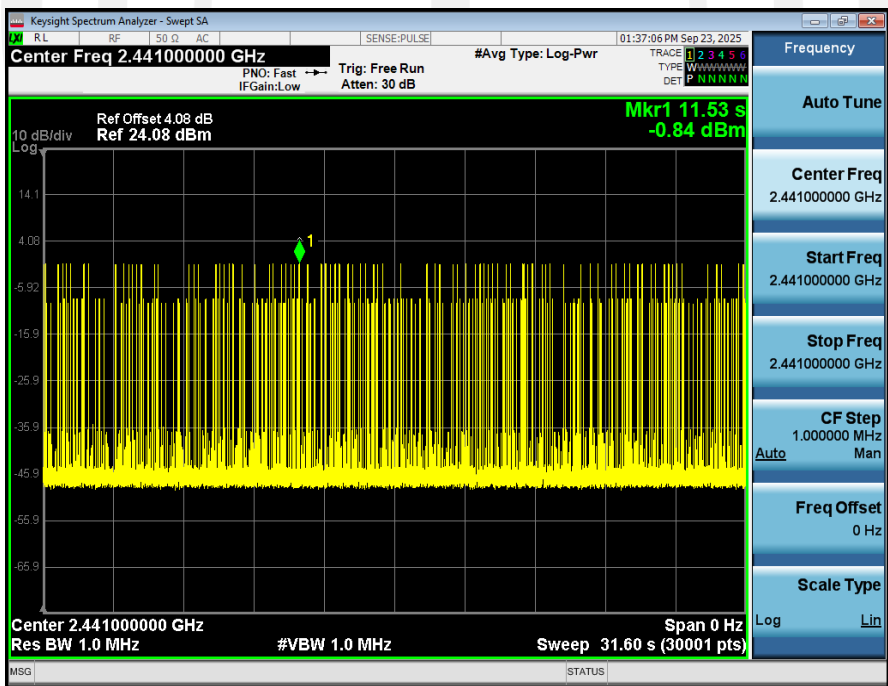
Freq Offset
0 Hz

Scale Type
Log

Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated



Keysight Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s

#Avg Type: Log-Pwr

PNO: Fast

Trig: Video

IFGain: Low

Atten: 26 dB

TRACE 1 2 3 4 5 6

TYPE W W W W W W W W

DET P N N N N N

Ref Offset 4.08 dB

Ref 19.16 dBm

Δ Mkr1 2.900 ms

-26.43 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Span 0 Hz

Sweep 10.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	2.900 ms	(Δ)	-26.43 dBm	
2	F	1	t		480.0 μ s		-5.22 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Man

Auto

Freq Offset 0 Hz

Scale Type Log

Lin

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

Mkr1 24.11 s
-0.62 dBm

10 dB/div
Log

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

The image shows a Keysight Spectrum Analyzer interface. The main display area shows a spectrum plot with a yellow signal line fluctuating around a noise floor. A marker '1' is placed on the signal line at 24.11 s with a value of -0.62 dBm. The top of the screen displays the center frequency as 2.441000000 GHz. The right-hand side of the screen contains a control panel with various settings, including 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', 'Freq Offset', and 'Scale Type'. The bottom of the screen shows additional parameters like 'Res BW', '#VBW', 'Sweep', and 'Span'.

The screenshot displays a Keysight Spectrum Analyzer interface. The main plot area shows a signal with a peak at -31.40 dBm. The frequency is set to 2.441000000 GHz. The measurement settings include a span of 0 Hz and a resolution bandwidth of 1.0 MHz. The interface also shows a table of measurement results at the bottom.

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	$\Delta 2$	1	t	(Δ)	1.650 ms	(Δ)	-31.40 dB	
2	F	1	t		480.0 μ s		-5.31 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

10 dB/div
Log

Mkr1 27.83 s
-0.28 dBm

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

The image shows a Keysight Spectrum Analyzer interface. The main display is a log-frequency plot with a yellow signal trace. The center frequency is 2.441000000 GHz. The resolution bandwidth (Res BW) is 1.0 MHz. The video bandwidth (VBW) is 1.0 MHz. The sweep time is 31.60 s (30001 pts). The span is 0 Hz. The reference offset is 4.08 dB and the reference power is 24.08 dBm. A marker is placed on the signal at 27.83 s and -0.28 dBm. The right side of the interface has a control panel with buttons for Auto Tune, Center Freq, Start Freq, Stop Freq, CF Step, Freq Offset, and Scale Type. The bottom status bar shows the message and status.

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s

Trig: Video

Atten: 26 dB

Ref Offset 4.08 dB

Ref 19.16 dBm

Δ Mkr1 2.900 ms

-55.33 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Sweep 10.00 ms (1001 pts)

Span 0 Hz

CF Step 1.000000 MHz

Freq Offset 0 Hz

Scale Type Log

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	2.900 ms	(Δ)	-55.33 dBm	
2	F	1	t		480.0 μ s		-0.80 dBm	

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

10 dB/div
Log

14.1
4.08
-5.92
-15.9
-25.9
-35.9
-45.9
-55.9
-65.9

Mkr1 21.52 s
-0.21 dBm

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

Left:

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.420	320.00	134.400	0.40	Pass
NVNT	ANT1	2-DH1	0.420	319.00	133.980	0.40	Pass
NVNT	ANT1	3-DH1	0.430	320.00	137.600	0.40	Pass
NVNT	ANT1	1-DH3	1.680	166.00	278.880	0.40	Pass
NVNT	ANT1	1-DH5	2.920	105.00	306.600	0.40	Pass
NVNT	ANT1	2-DH3	1.670	166.00	277.220	0.40	Pass
NVNT	ANT1	2-DH5	2.920	107.00	312.440	0.40	Pass
NVNT	ANT1	3-DH3	1.680	153.00	257.040	0.40	Pass
NVNT	ANT1	3-DH5	2.930	112.00	328.160	0.40	Pass



Keysight Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 21.16 dBm

Trig Delay 500.0 μ s
Trig: Video
Atten: 28 dB

#Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N N

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz

Auto

Freq Offset
0 Hz

Scale Type
Log Lin

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Span 0 Hz
Sweep 10.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	420.0 μ s (Δ)	-43.79 dB		
2	F	1	t		470.0 μ s	-11.12 dBm		
3								
4								
5								
6								
7								
8								
9								
10								
11								

Dwell Time (Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:PULSE 06:40:22 PM Nov 12, 2025

Center Freq 2.441000000 GHz #Avg Type: Log-Pwr

PNO: Fast IFGain:Low Trig: Free Run Atten: 30 dB

Ref Offset 4.08 dB Ref 24.08 dBm

Mkr1 21.43 s 1.63 dBm

10 dB/div Log

Center 2.441000000 GHz Res BW 1.0 MHz #VBW 1.0 MHz Span 0 Hz Sweep 31.60 s (30001 pts)

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

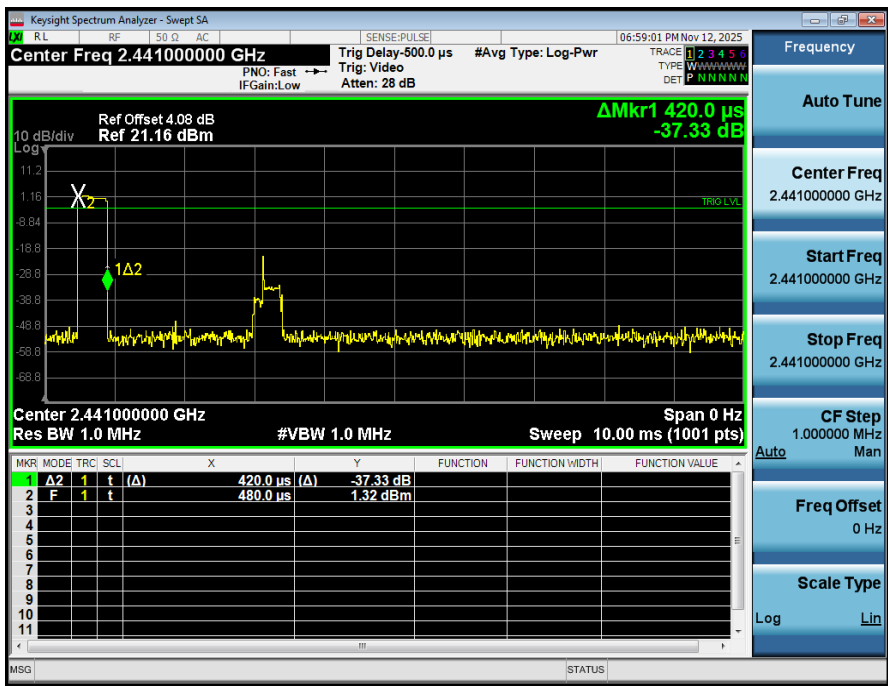
Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz Auto Man

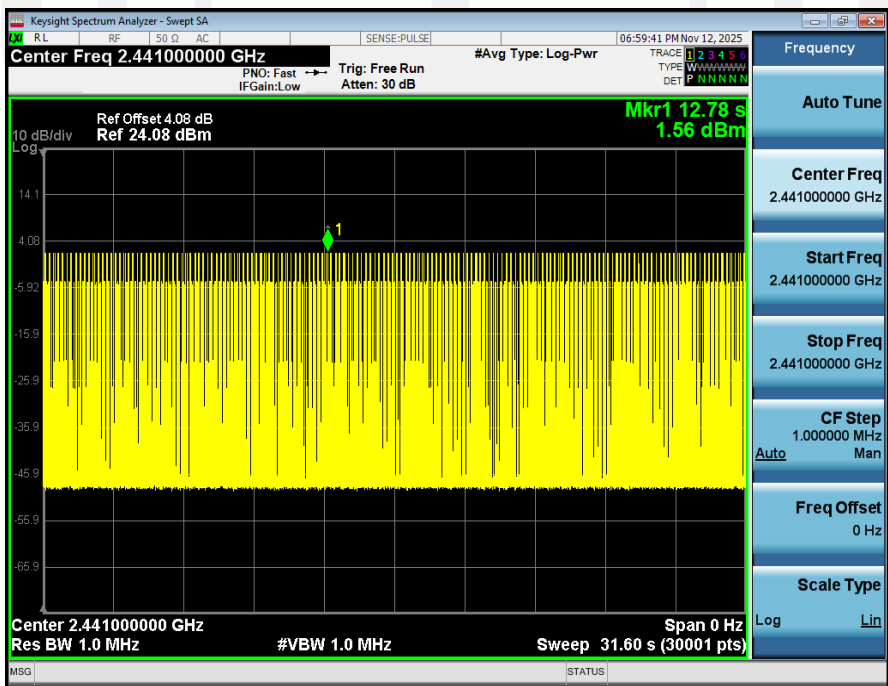
Freq Offset 0 Hz

Scale Type Log Lin

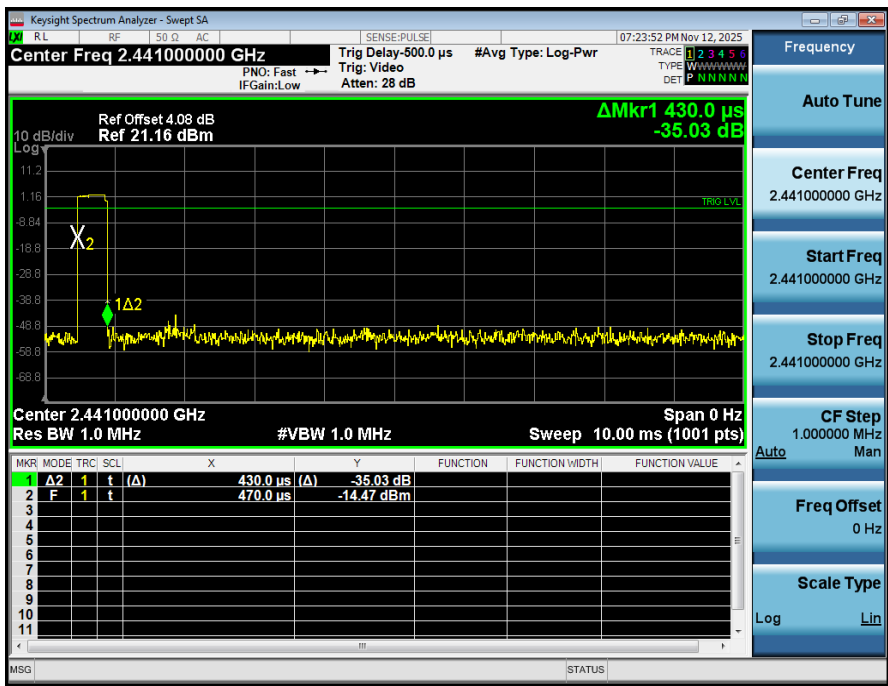
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_One_Burst_Time



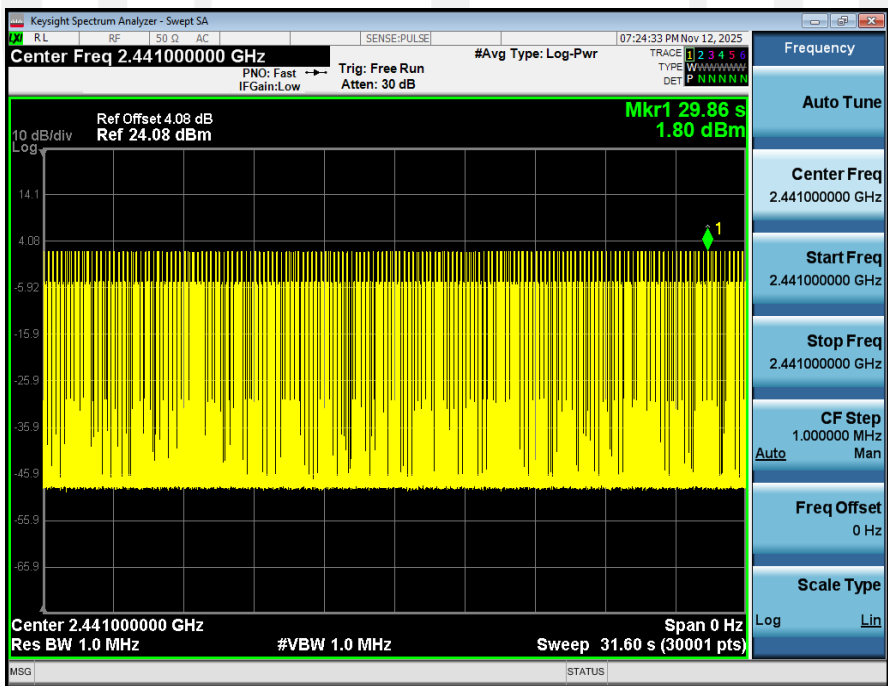
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s

#Avg Type: Log-Pwr

Trig: Video

ATTN: 28 dB

Ref Offset 4.08 dB

Ref 21.16 dBm

Δ Mkr1 2.920 ms

-51.70 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Span 0 Hz

Sweep 10.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	2.920 ms	(Δ)	-51.70 dBm	
2	F	1	t		470.0 μ s		-4.62 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq 2.441000000 GHz

Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

CF Step 1.000000 MHz

Man

Freq Offset 0 Hz

Scale Type Log

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

Mkr1 13.22 s
1.51 dBm

10 dB/div
Log

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

Dwell Time (Hopping) NVNT_ANT1_2-DH3_2441_00_One_Burst_Time

Keysight Spectrum Analyzer - Swept SA

Center Freq **2.441000000 GHz** Trig Delay **500.0 μs** #Avg Type: Log-Pwr TRACE 1 2 3 4 5 6
 PNO: Fast → IFGain: Low Trig: Video Atten: 28 dB TYPE WXXXXXXXXX
 DET P NNNNNN

Ref Offset **4.08 dB** ΔMkr1 **1.670 ms**
 Ref **21.16 dBm** -21.10 dBm

10 dB/div
Log

X₂ 1Δ2 TRIG LVL

Center **2.441000000 GHz** Span **0 Hz**
 Res BW **1.0 MHz** #VBW **1.0 MHz** Sweep **10.00 ms (1001 pts)**

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	t	(Δ)	1.670 ms	(Δ) -21.10 dBm			
2	F	t		480.0 μs	1.27 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq **2.441000000 GHz**

Start Freq **2.441000000 GHz**

Stop Freq **2.441000000 GHz**

CF Step **1.000000 MHz**
Man

Auto

Freq Offset **0 Hz**

Scale Type **Log** Lin

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

Mkr1 25.51 s
1.71 dBm

10 dB/div
Log

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

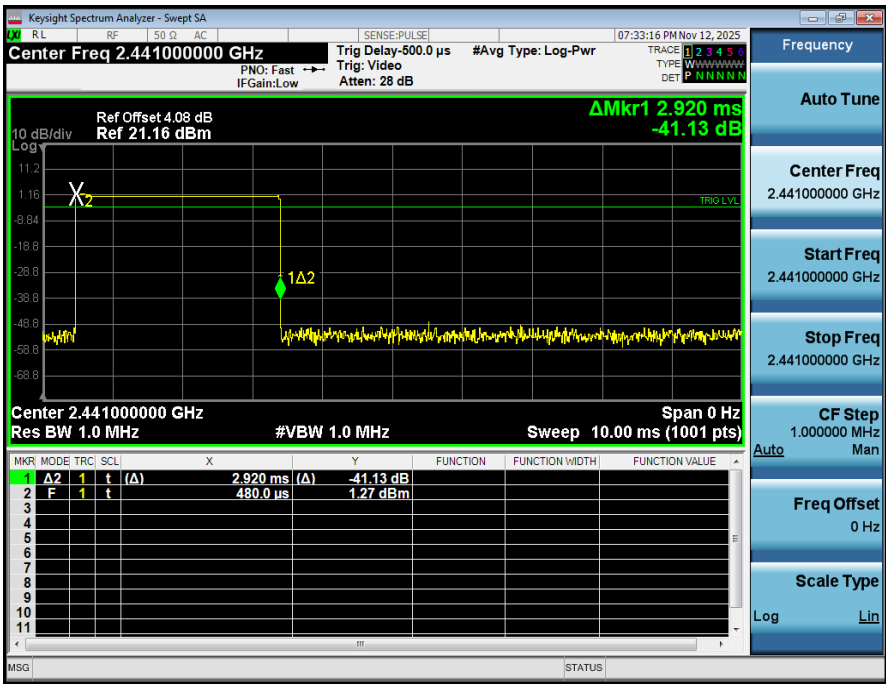
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

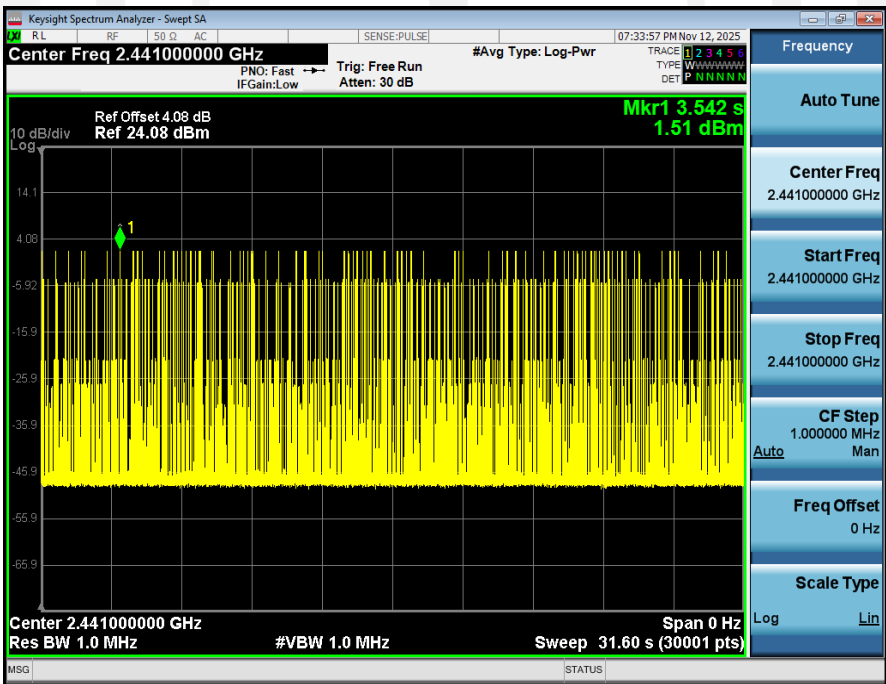
Freq Offset
0 Hz

Scale Type
Log

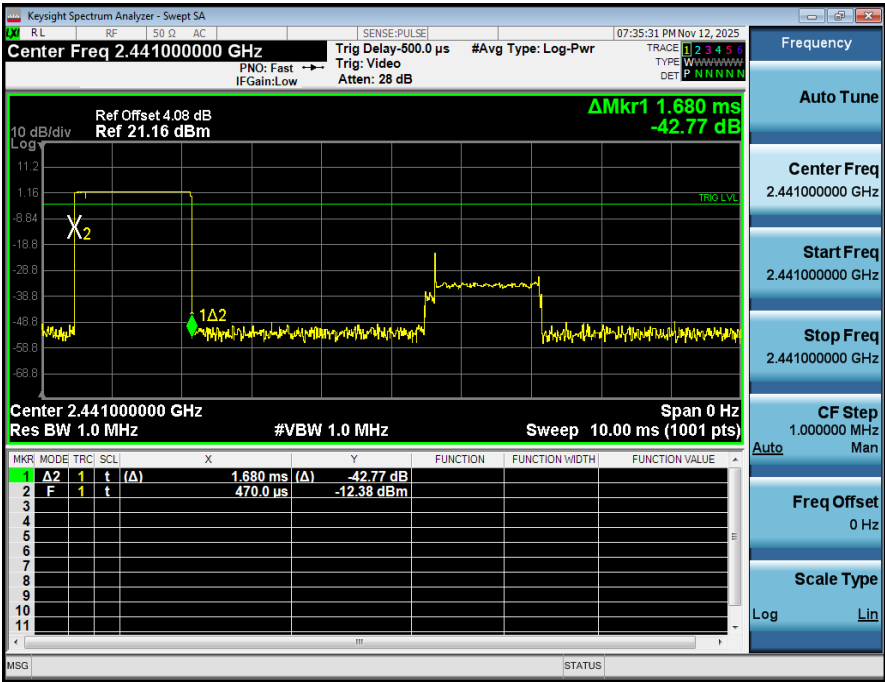
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



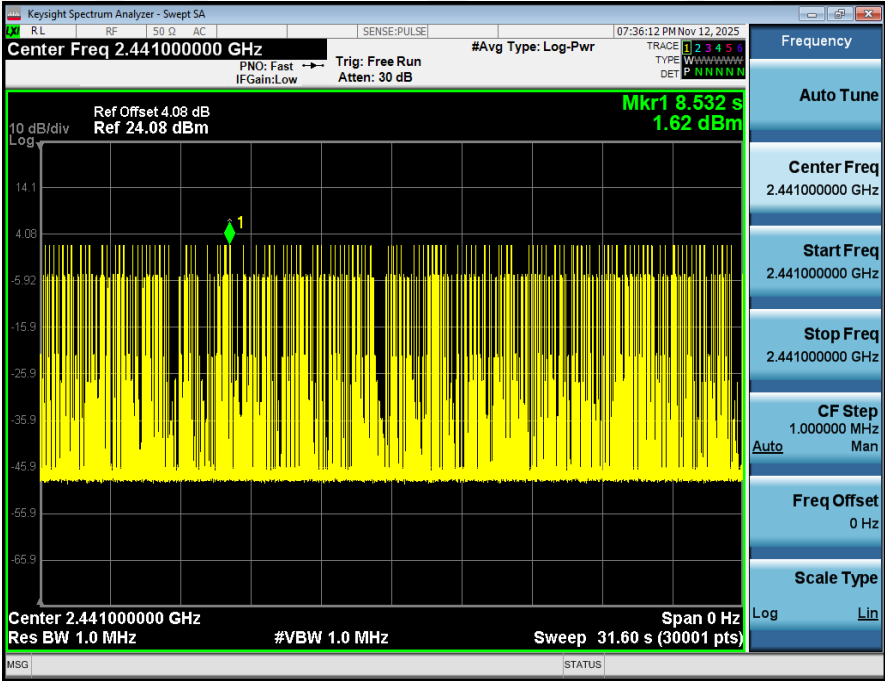
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_Accumulated



Keysight Spectrum Analyzer - Sweep SA

Center Freq 2.441000000 GHz

Trig Delay: 500.0 μ s

Trig: Video

Atten: 24 dB

Ref Offset 4.08 dB

Ref 17.16 dBm

Δ Mkr1 2.930 ms

-53.72 dB

10 dB/div

Log

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 1.0 MHz

Sweep 10.00 ms (1001 pts)

Span 0 Hz

CF Step 1.000000 MHz

Freq Offset 0 Hz

Scale Type Log

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ 2	1	t	(Δ)	2.930 ms	(Δ)	-53.72 dB	
2	F	1	t		480.0 μ s		-2.75 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 4.08 dB
Ref 24.08 dBm

10 dB/div
Log

14.1
4.08
-5.92
-15.9
-25.9
-35.9
-45.9
-55.9
-65.9

Center 2.441000000 GHz
Res BW 1.0 MHz
#VBW 1.0 MHz
Sweep 31.60 s (30001 pts)

Span 0 Hz

Msg

STATUS

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Auto
Man

Freq Offset
0 Hz

Scale Type
Log
Lin

07:38:08 PM Nov 12, 2025

#Avg Type: Log-Pwr

TRACE 1 2 3 4 5 6
TYPE W
DET P NNNNN

PNO: Fast
IFGain: Low

Trig: Free Run
Atten: 30 dB

Mkr1 13.38 s
2.13 dBm

8. Out-of-band Emissions

8.1. 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 FCC Part 15.209(a) is not required. Please refer section RSS-GEN&15.247.

8.2. Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

8.3. Test Setup



8.4. Test Results

PASS.

The test results are listed in next pages.

Band Edge: Pass

Right:

Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value (dBm)	Limit(dBm)	Result
NVNT	ANT1	1-DH1	2402.00	0.138	-52.662	-19.862	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	0.703	-54.446	-19.297	Pass
NVNT	ANT1	1-DH1	2480.00	1.012	-55.077	-18.988	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	1.077	-52.700	-18.923	Pass
NVNT	ANT1	2-DH1	2402.00	0.175	-51.595	-19.825	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	0.769	-55.272	-19.231	Pass
NVNT	ANT1	2-DH1	2480.00	1.080	-54.296	-18.920	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	1.028	-53.380	-18.972	Pass
NVNT	ANT1	3-DH1	2402.00	0.157	-52.017	-19.843	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	0.676	-55.539	-19.324	Pass
NVNT	ANT1	3-DH1	2480.00	0.985	-55.098	-19.015	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	1.038	-52.808	-18.962	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402_00



2_Bandedge_NVNT_ANT1_1-DH1_2402_00

