



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260610008A01E0201

RF Test Report

For BTEK260610008A01E02

Project No.:	BTEK260610008A01E0201
Test Conditions:	22.4℃, 58%, 100.7kPa
Test Engineer:	Milo
Test Date:	2026-08-12-2026-09-03



Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Carrier Frequency Separation	Pass
Number of Hopping Frequencies	Pass
Time of Occupancy (Dwell Time)	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



1. Duty Cycle

1.1 Test Result

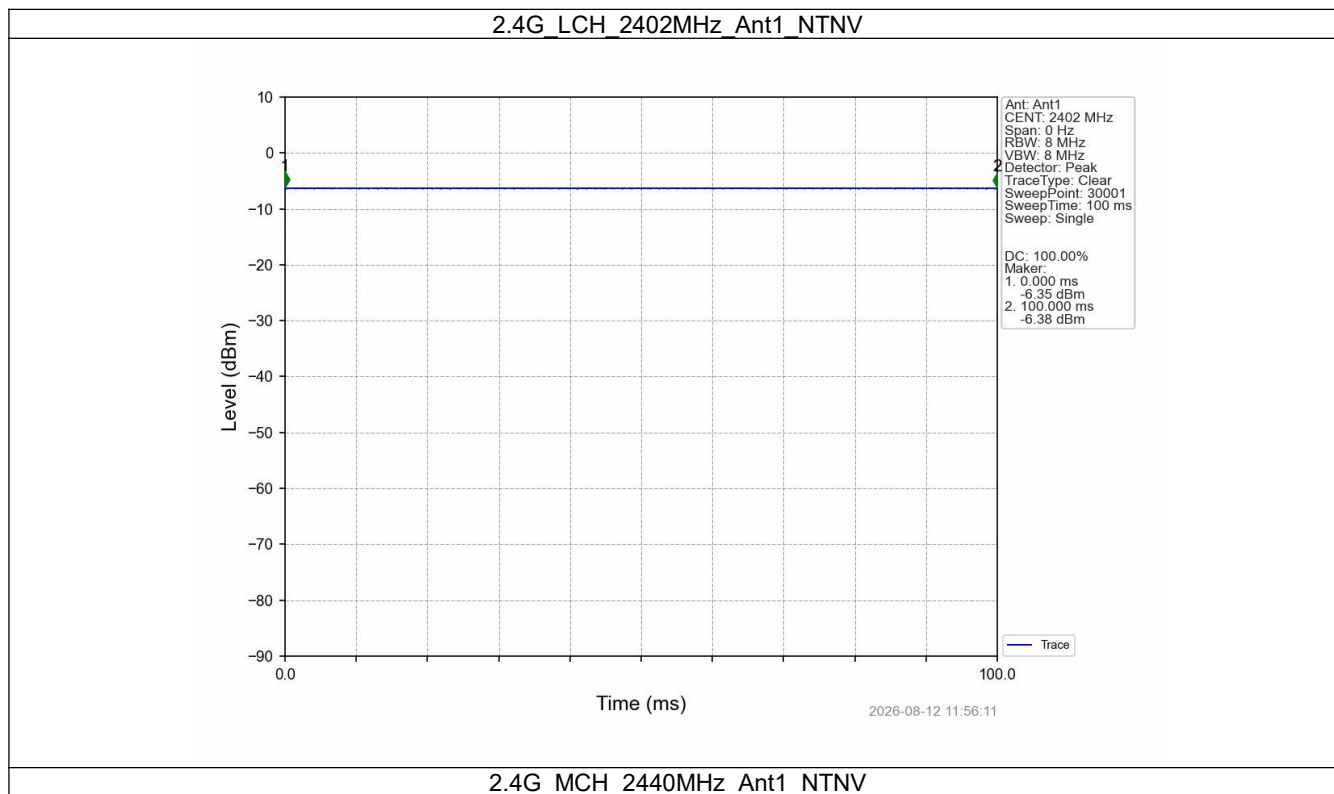
1.1.1 Ant1

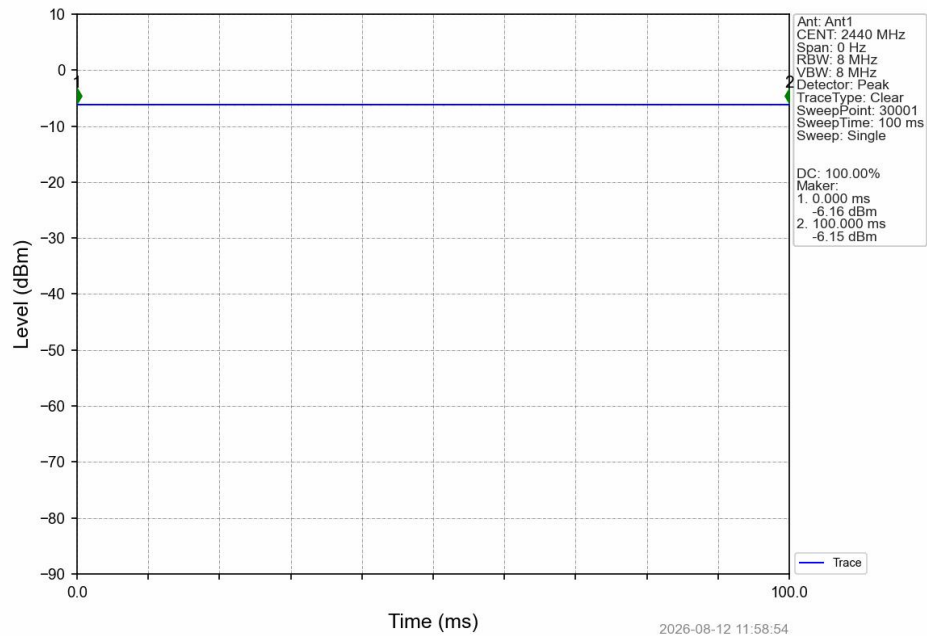
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

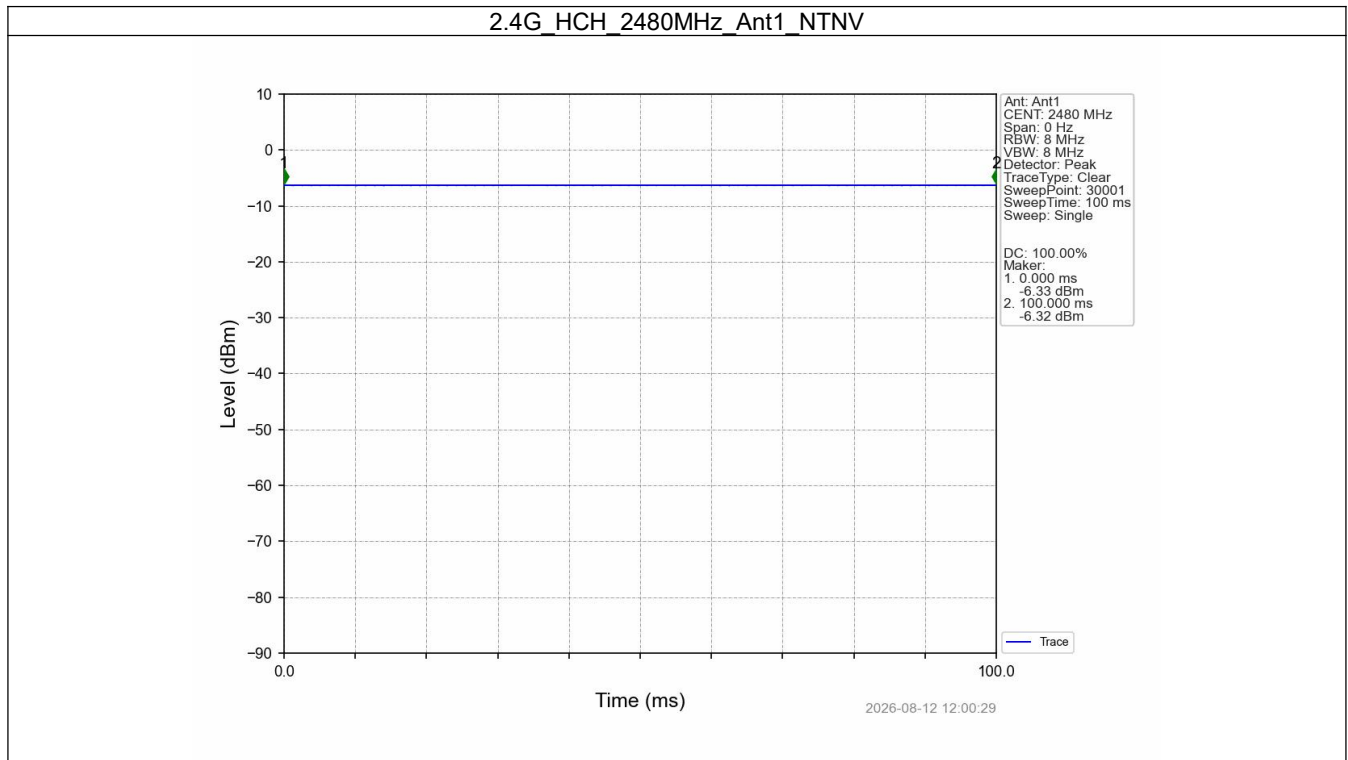


1.2 Test Graph

1.2.1 Ant1









2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2402	1	1.840	/	Pass
		2440	1	1.864	/	Pass
		2480	1	1.914	/	Pass

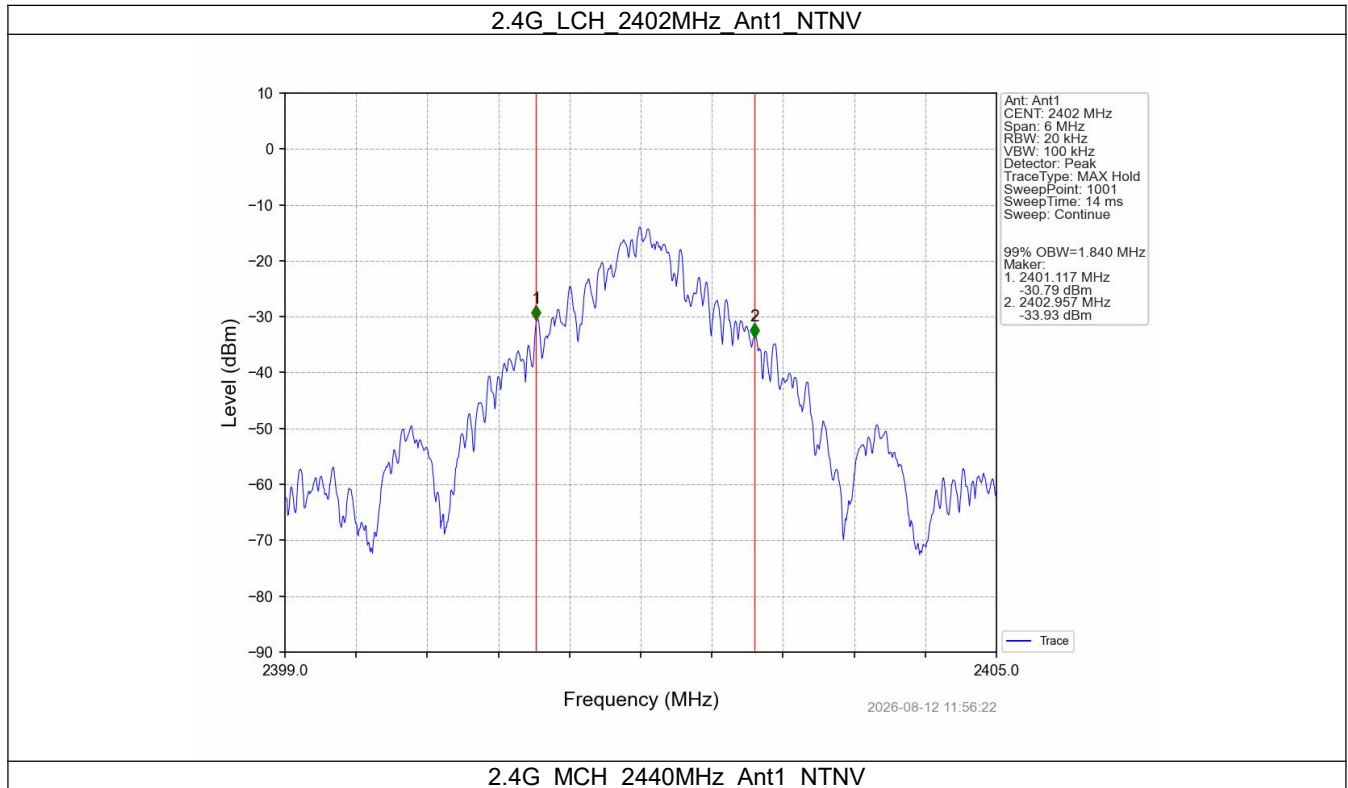
2.1.2 20dB BW

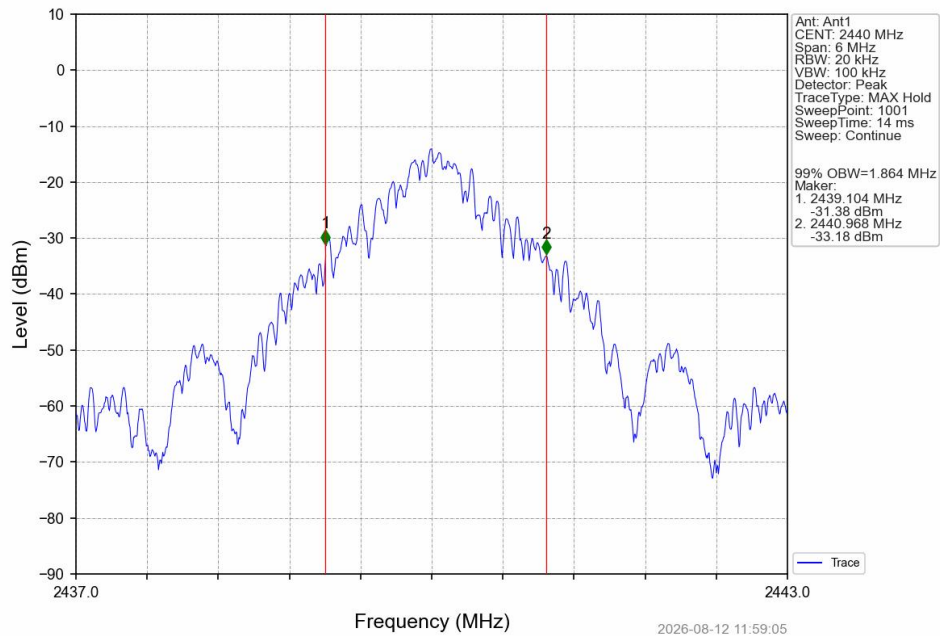
Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2402	1	1.868	/	Pass
		2440	1	1.877	/	Pass
		2480	1	1.898	/	Pass

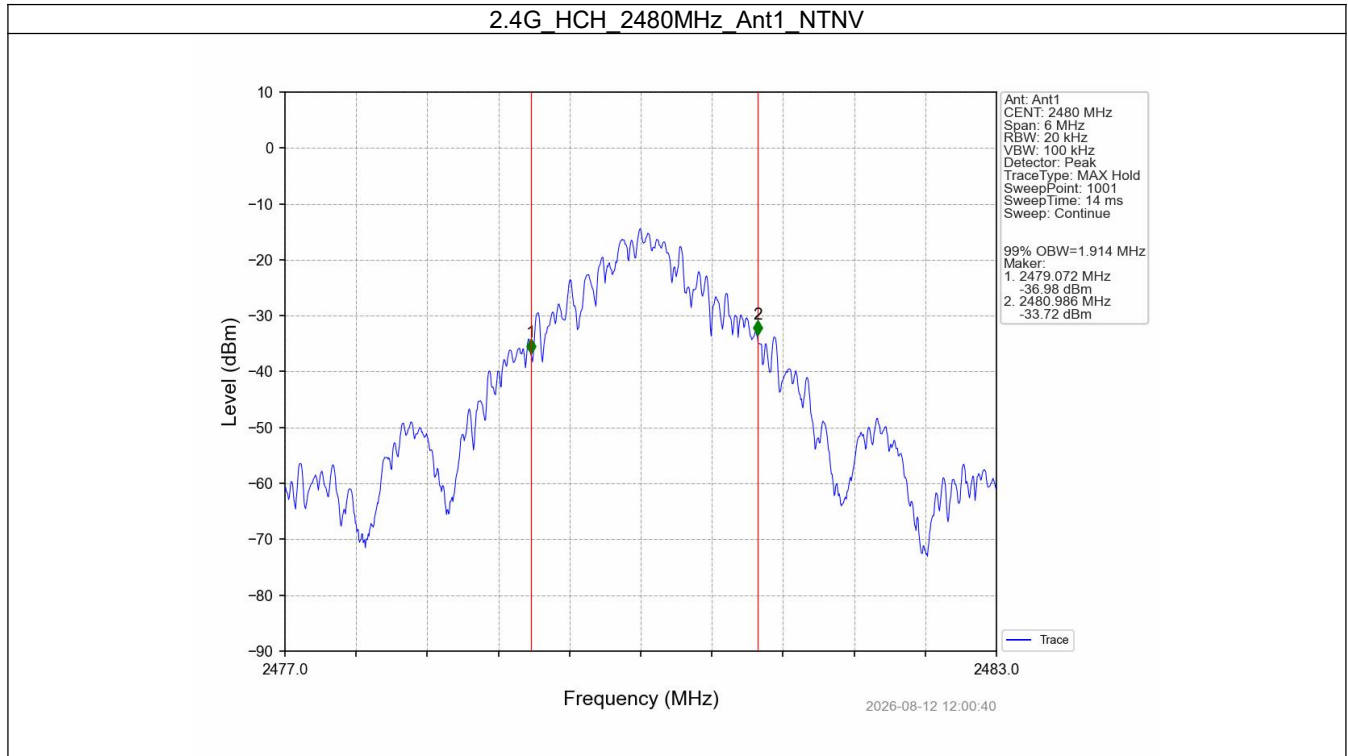


2.2 Test Graph

2.2.1 OBW

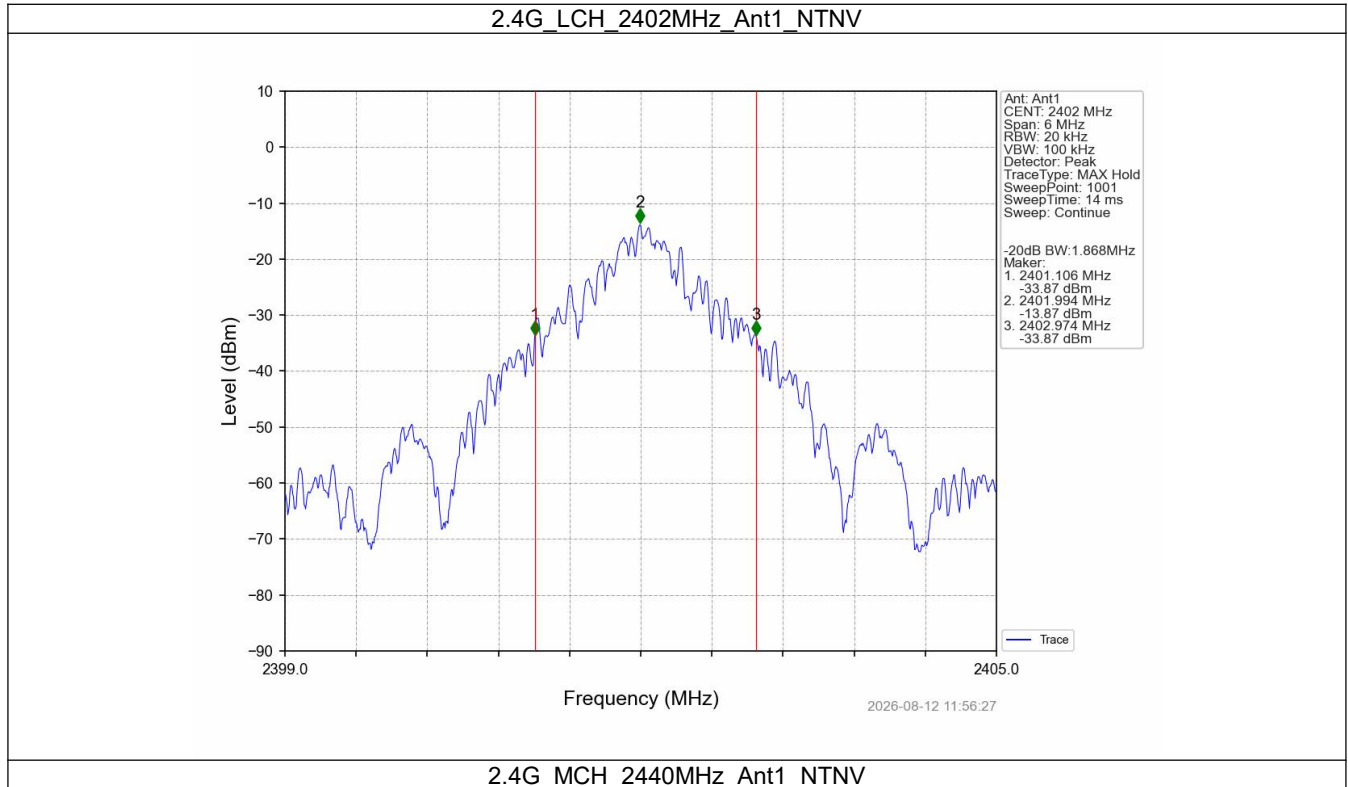


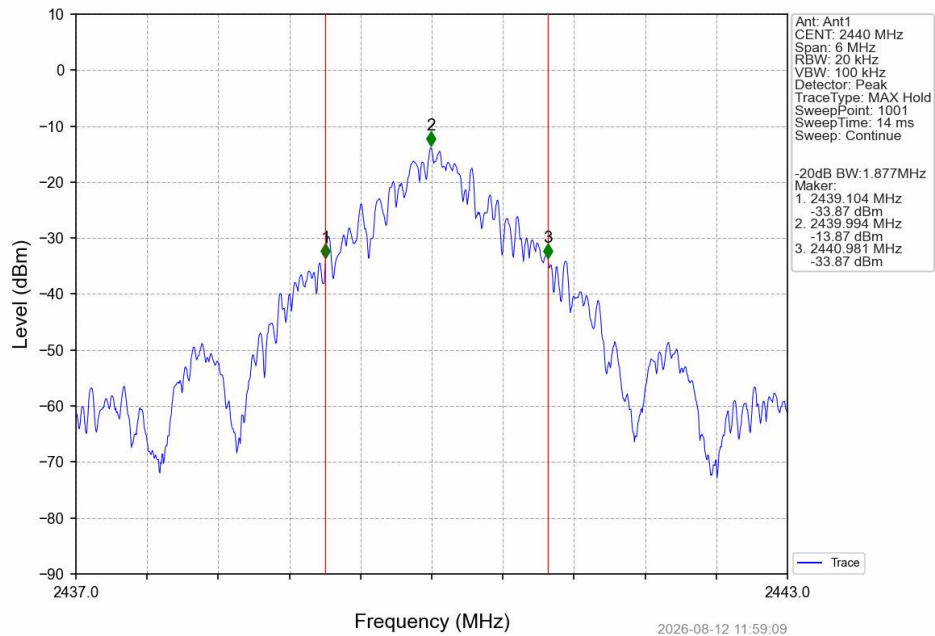


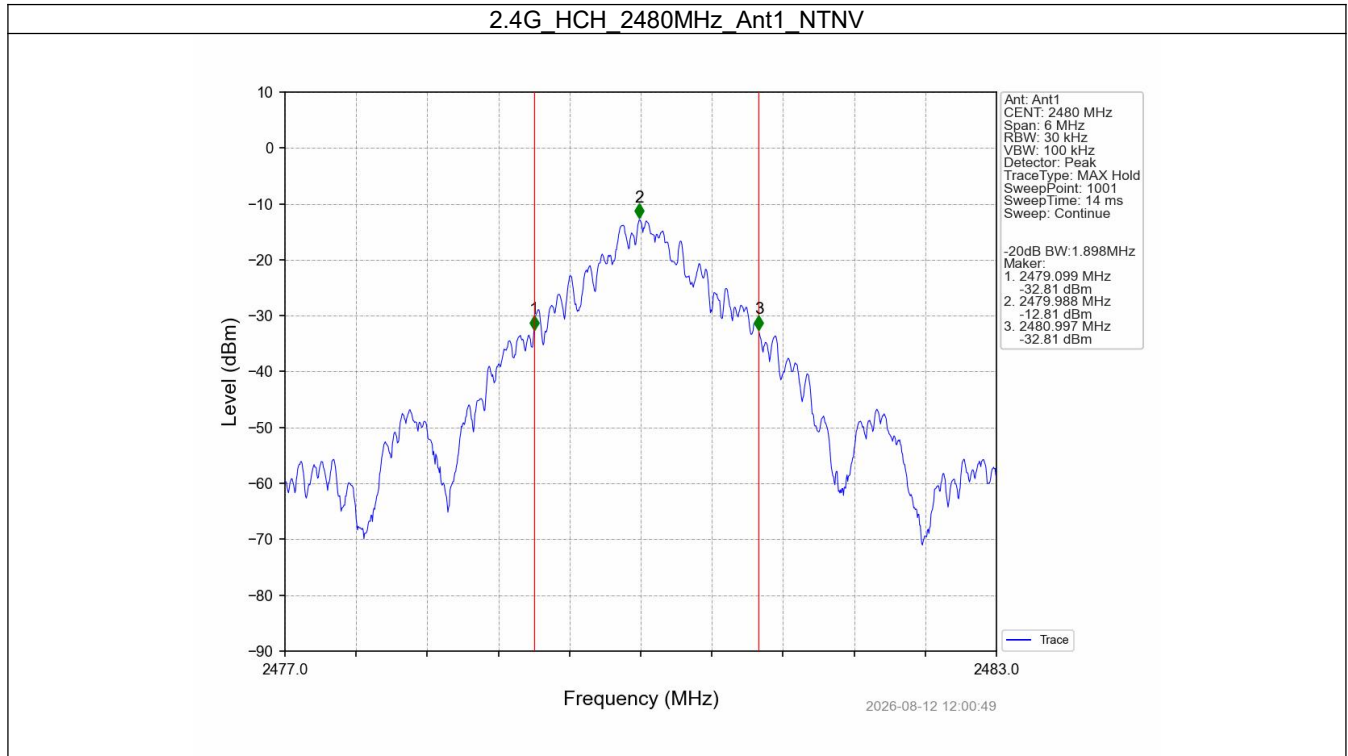




2.2.2 20dB BW









3. Maximum Conducted Output Power

3.1 Test Result

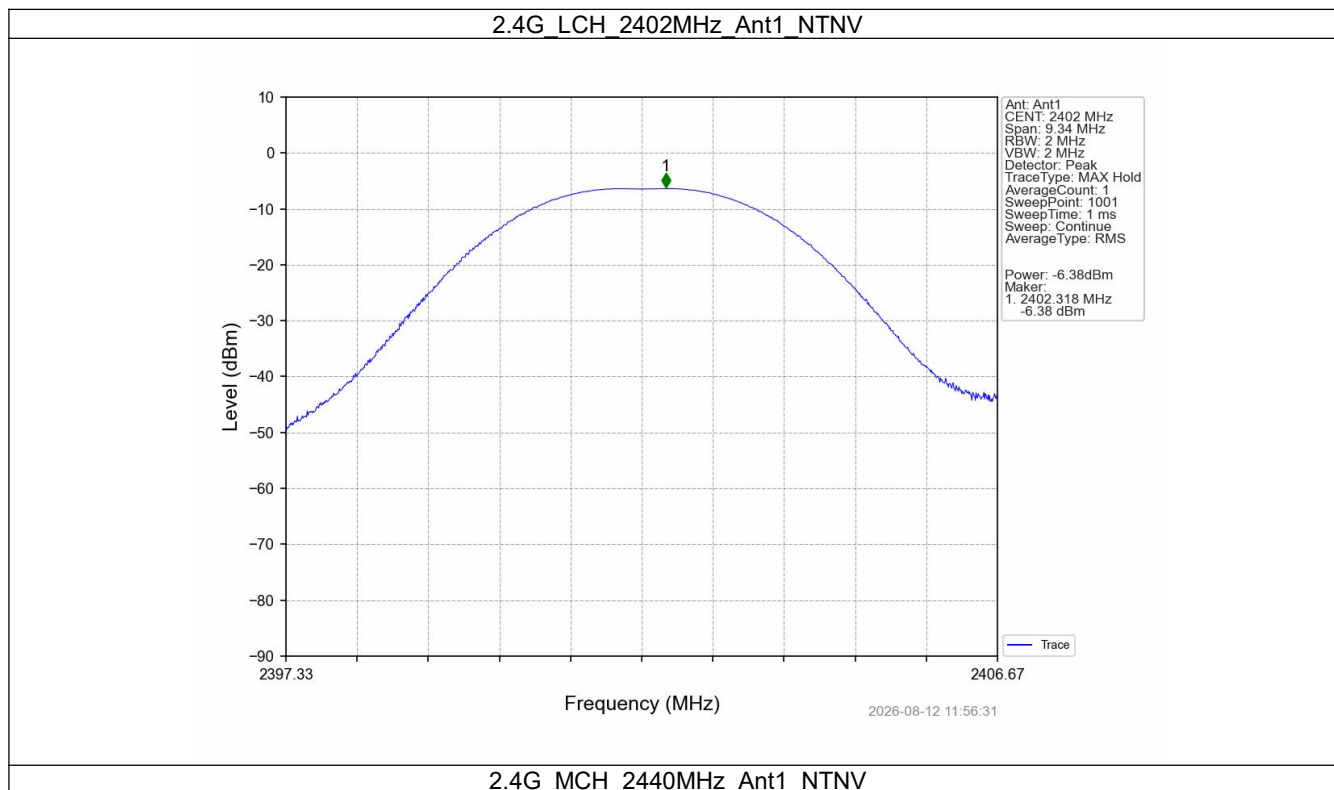
3.1.1 Power

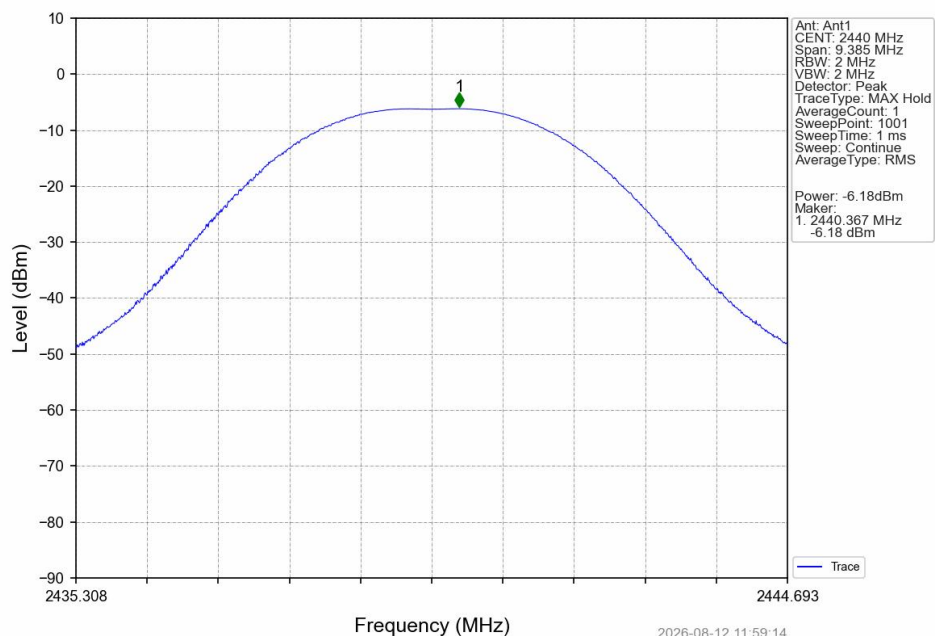
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
2.4G	SISO	2402	-6.38	<=20.97	Pass
		2440	-6.18	<=20.97	Pass
		2480	-6.35	<=20.97	Pass
Note1: Antenna Gain: Ant1: 2.48dBi;					

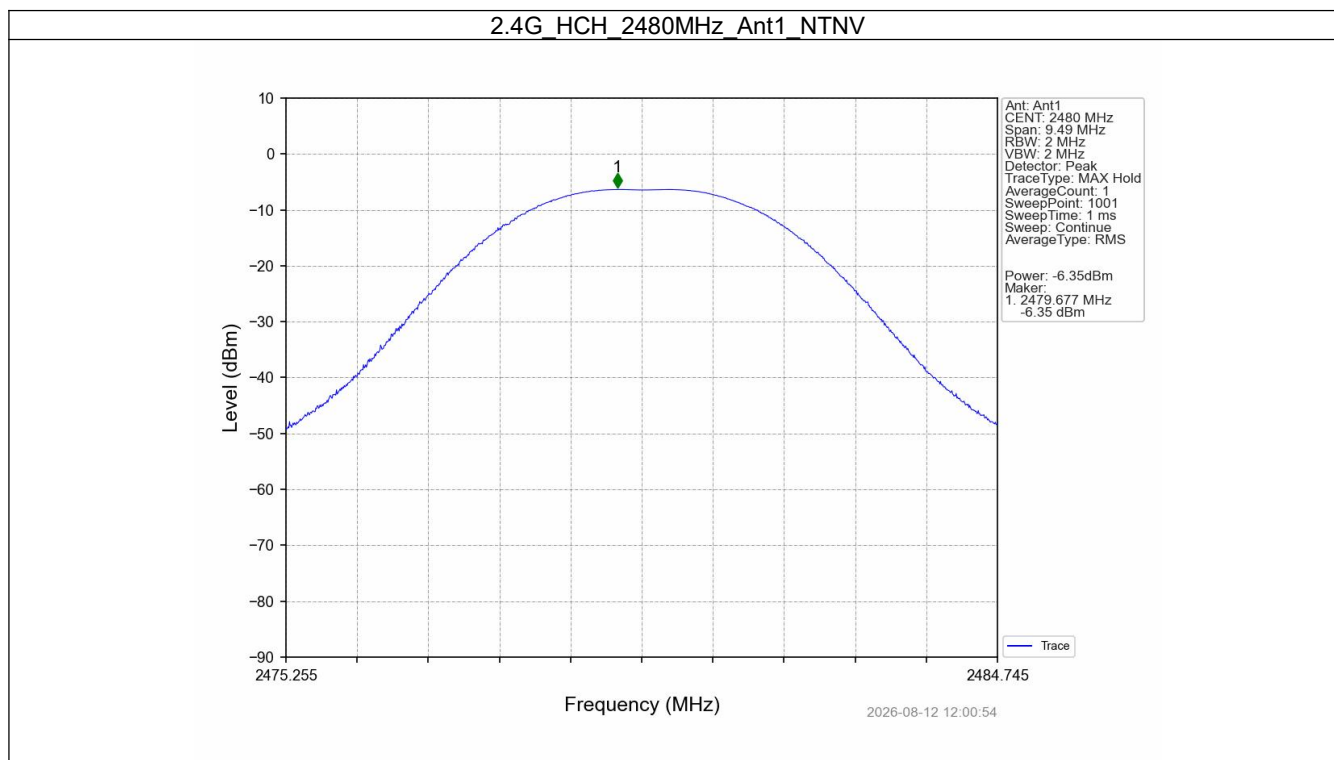


3.2 Test Graph

3.2.1 Power









4. Carrier Frequency Separation

4.1 Test Result

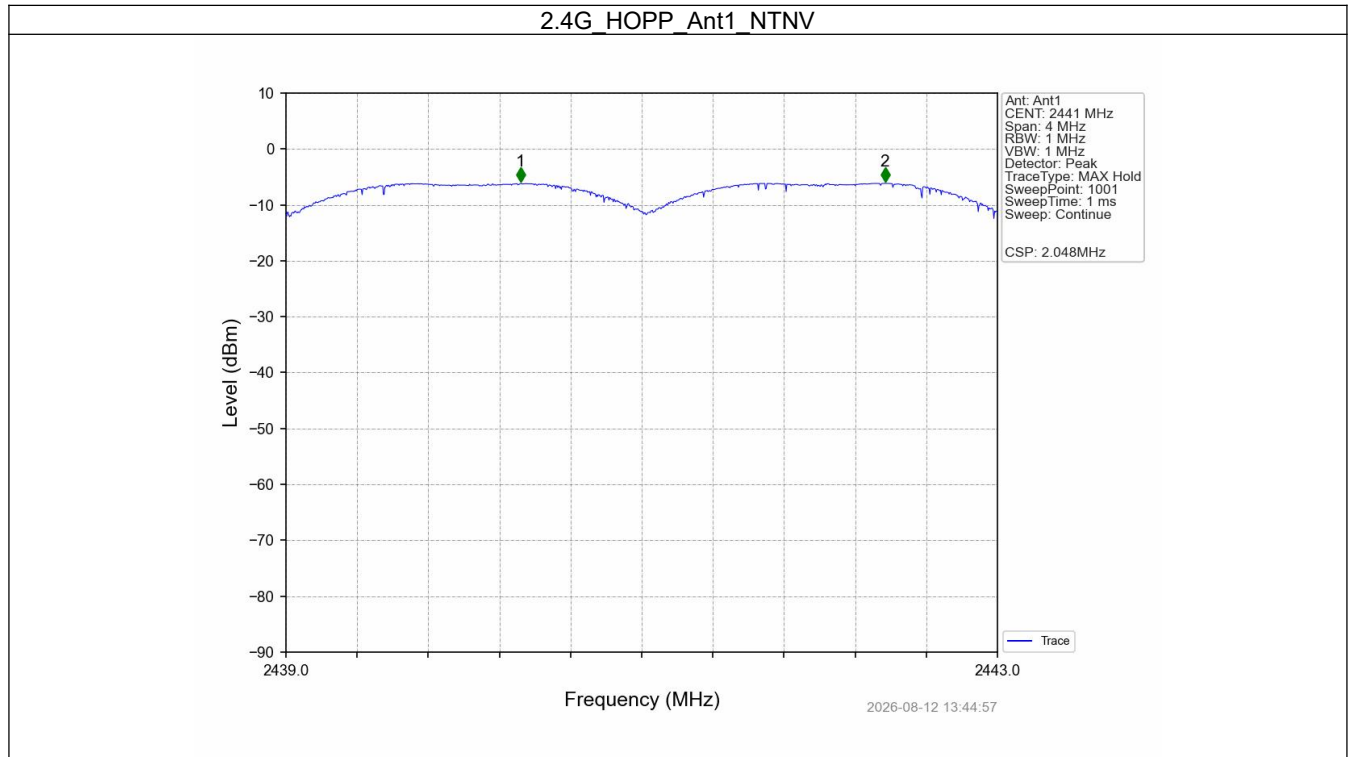
4.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
2.4G	SISO	HOPP	2.048	1.898	≥ 1.898	Pass



4.2 Test Graph

4.2.1 Ant1





5. Number of Hopping Frequencies

5.1 Test Result

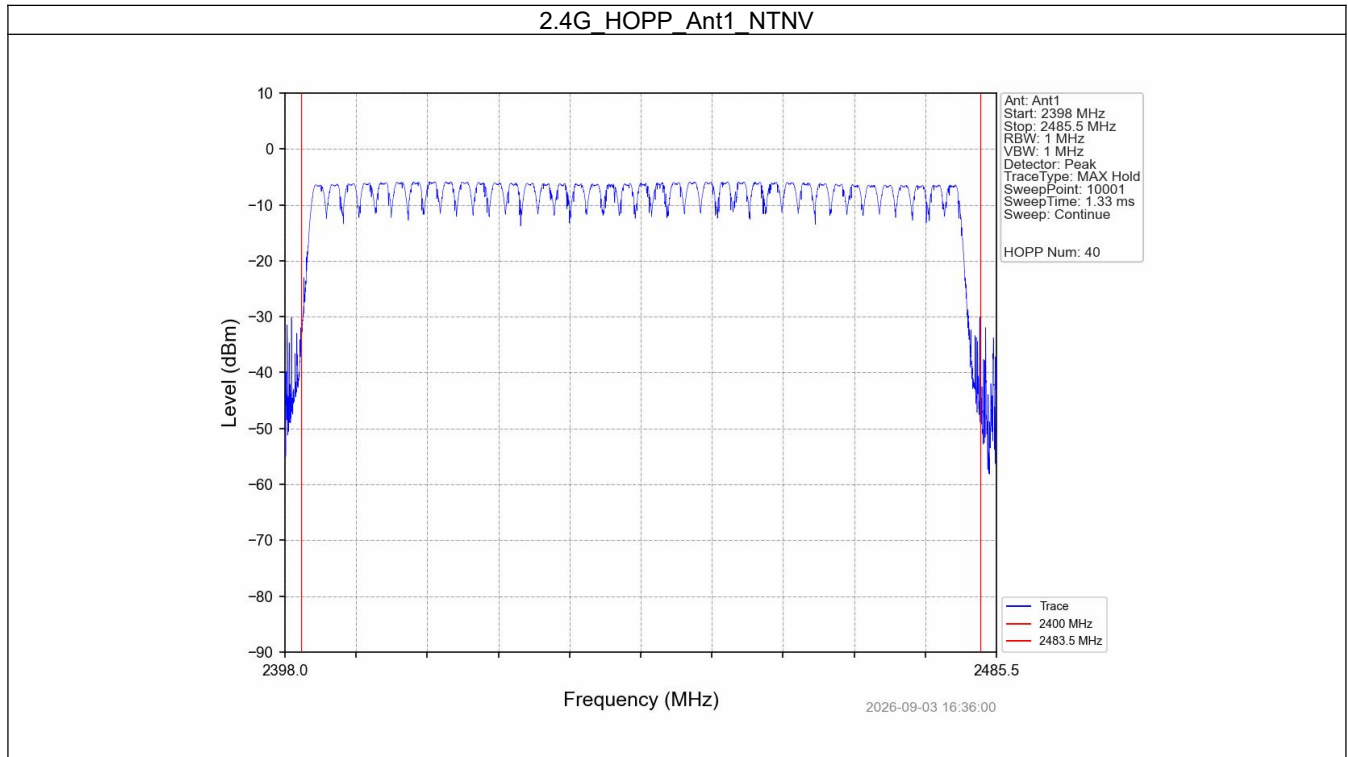
5.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
2.4G	SISO	HOPP	40	≥ 15	Pass



5.2 Test Graph

5.2.1 HoppNum





6. Time of Occupancy (Dwell Time)

6.1 Test Result

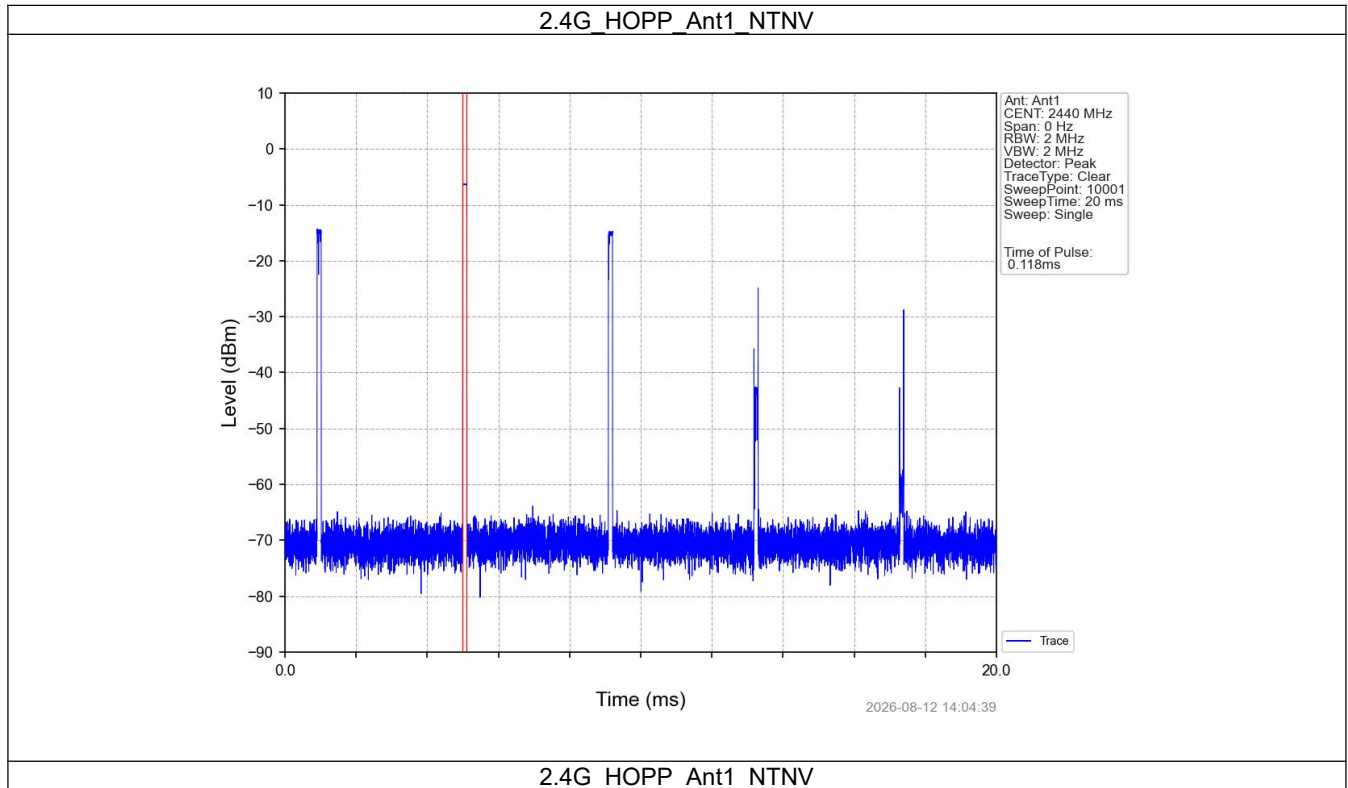
6.1.1 Ant1

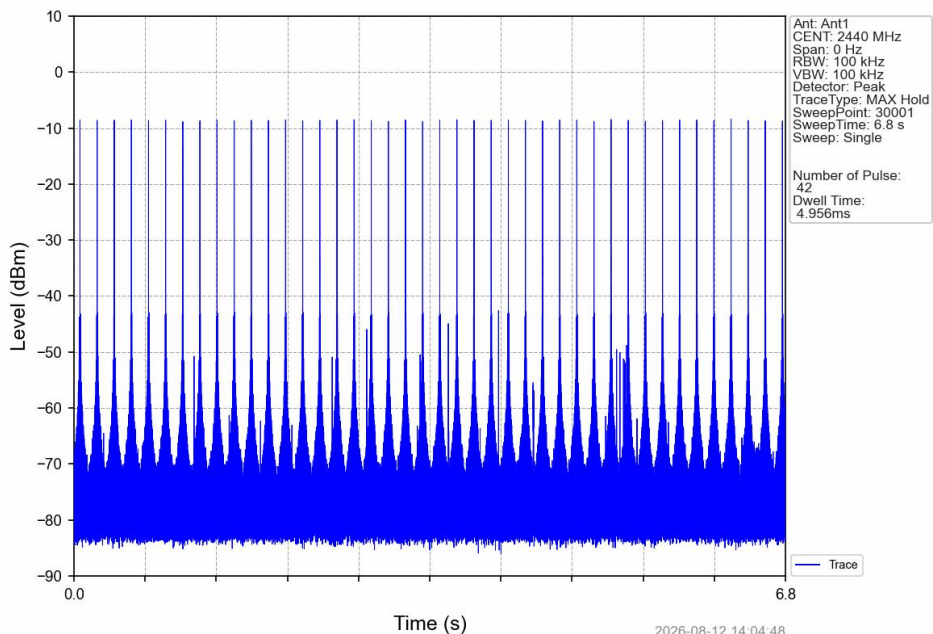
Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
2.4G	SISO	HOPP	0.118	6.800	42	4.956	<=400	Pass



6.2 Test Graph

6.2.1 Ant1







7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2.4G	SISO	2402	1	-8.24
		2440	1	-8.15
		2480	1	-8.30

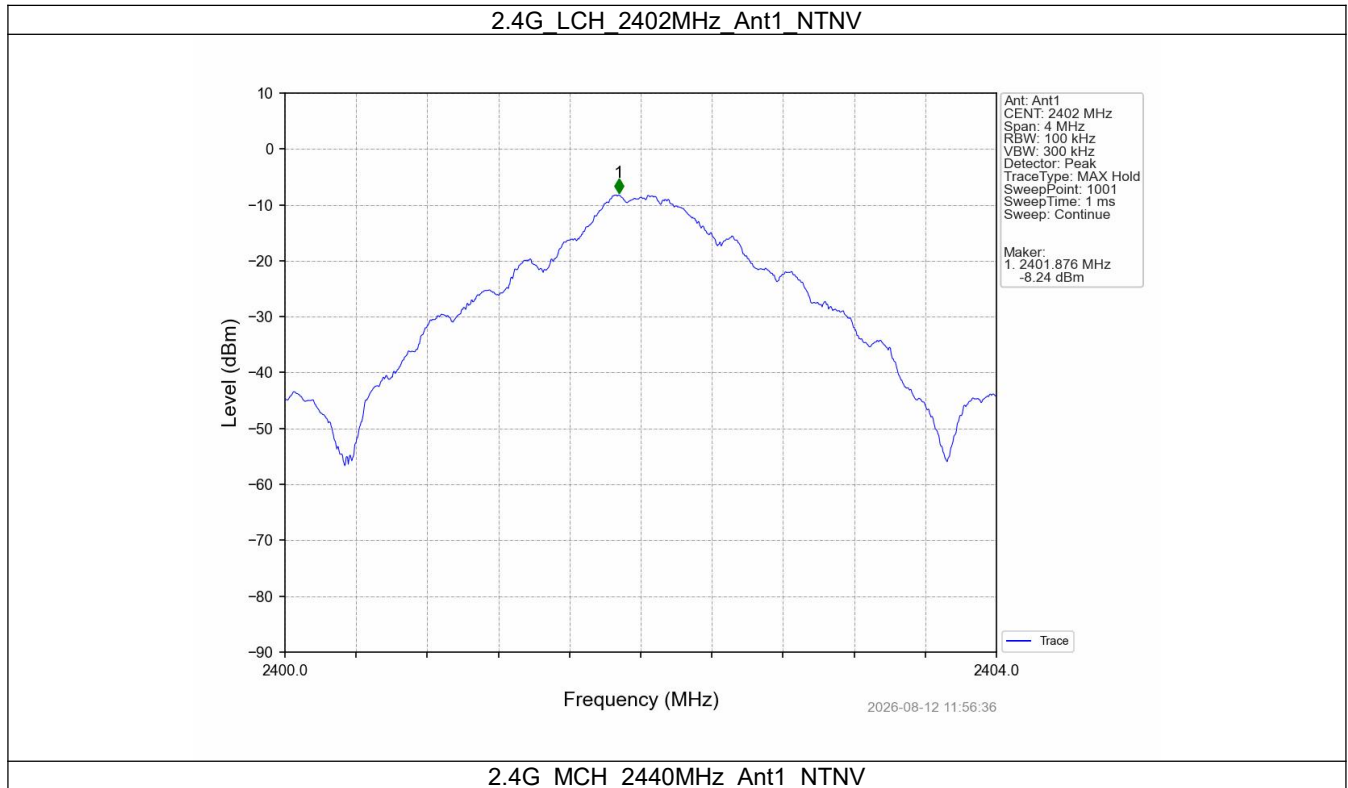
7.1.2 CSE

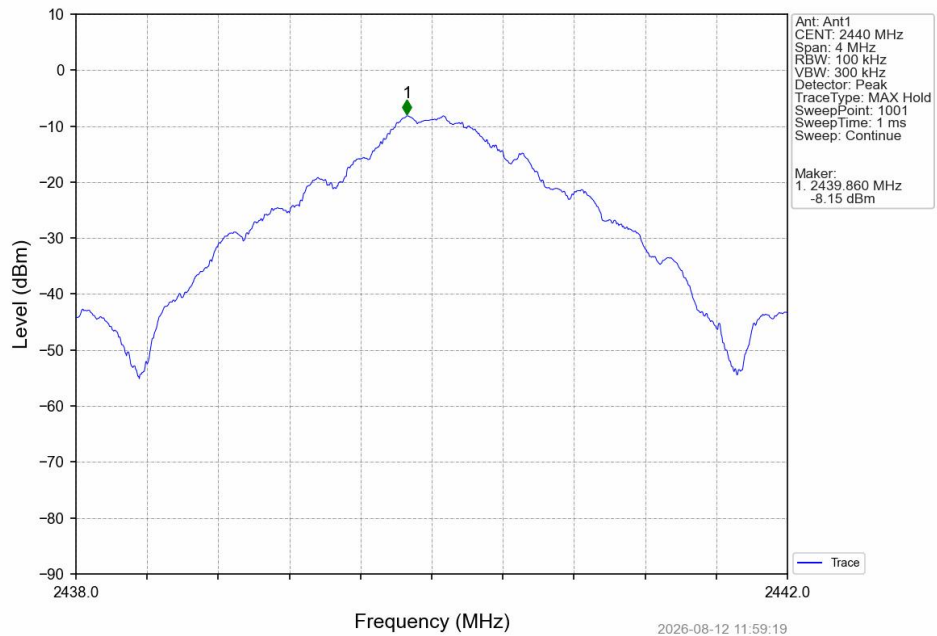
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2.4G	SISO	2402	1	-8.15	-28.15	Pass
		2440	1	-8.15	-28.15	Pass
		2480	1	-8.15	-28.15	Pass
		HOPP	1	-8.15	-28.15	Pass
				-8.15	-28.15	Pass



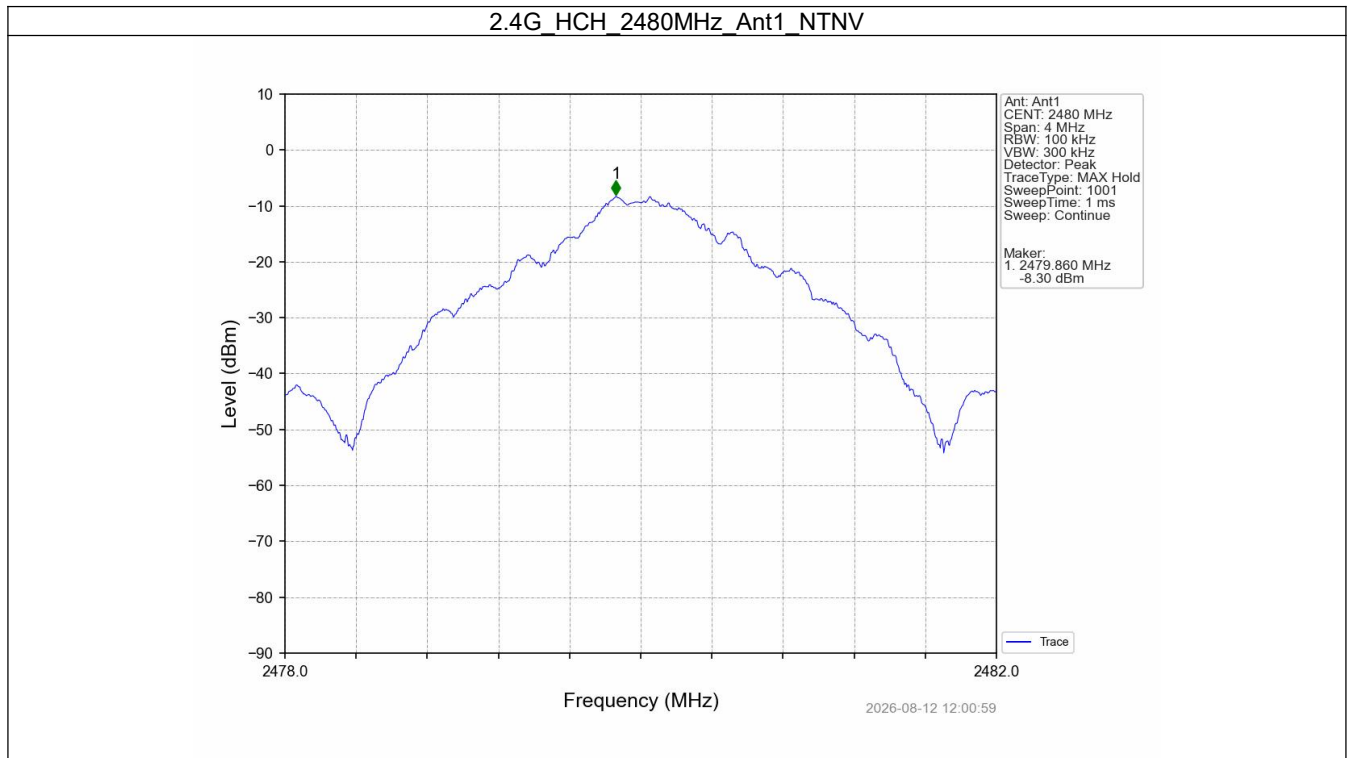
7.2 Test Graph

7.2.1 Ref

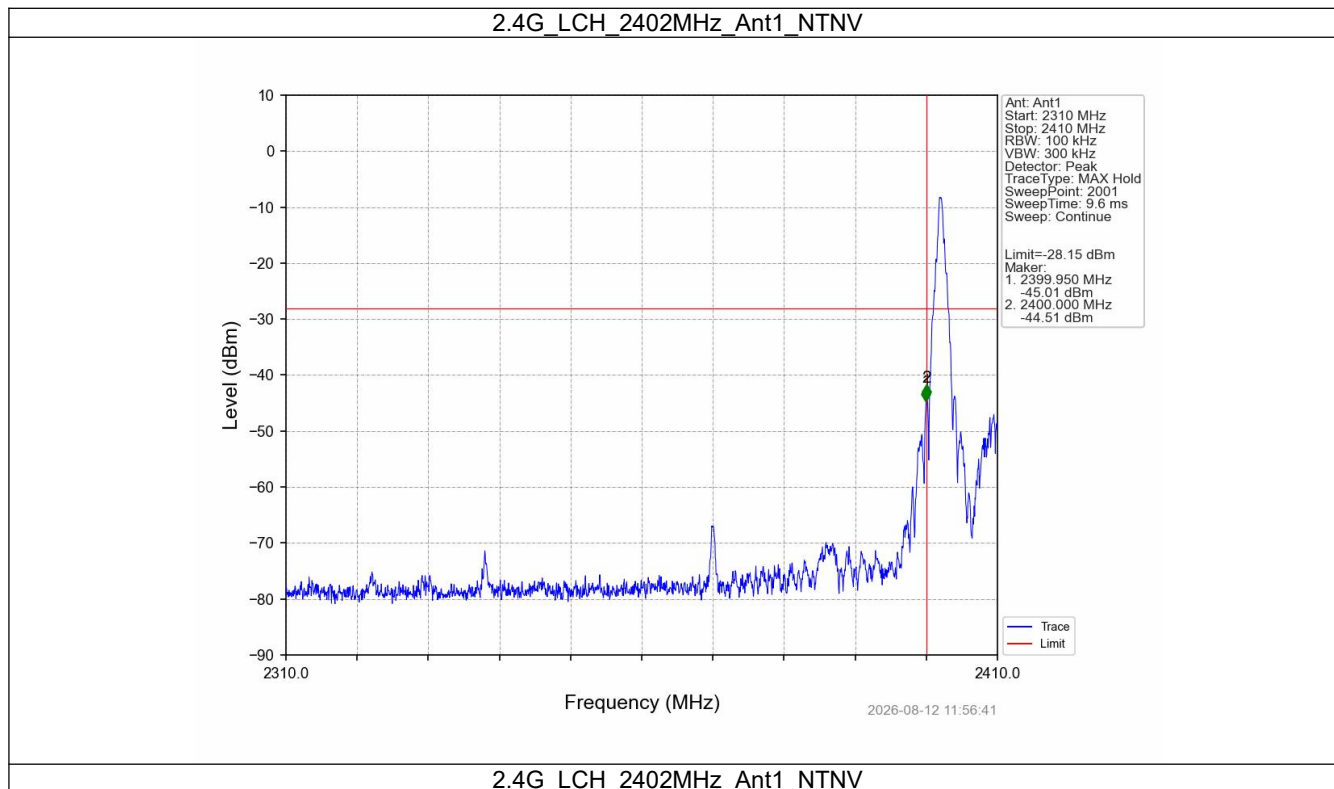


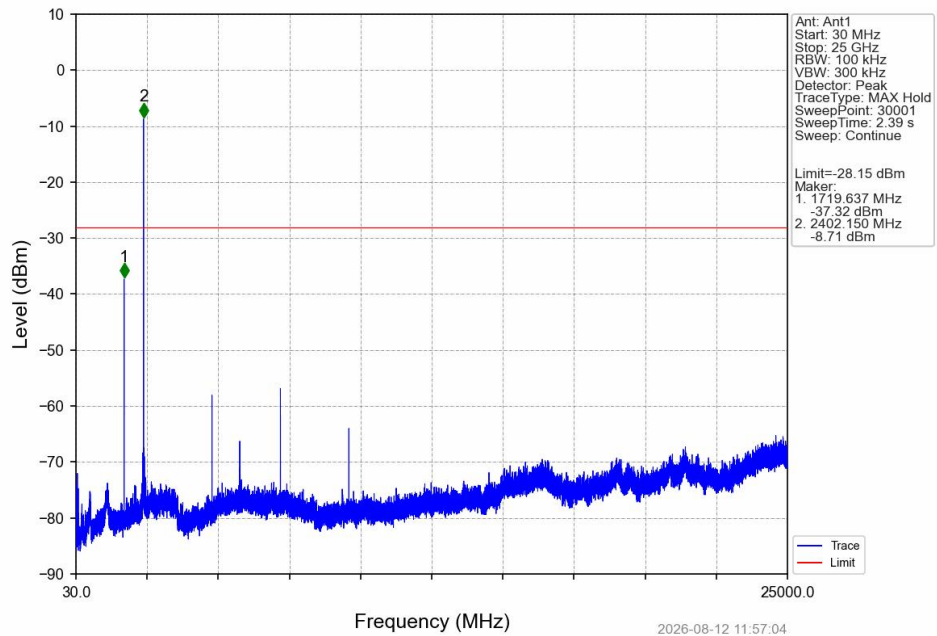


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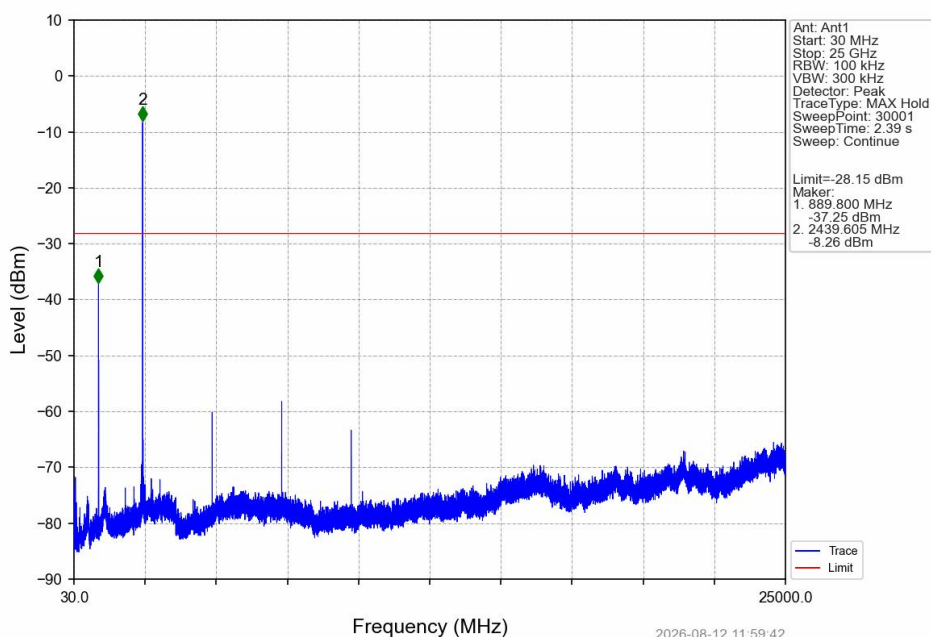


7.2.2 CSE

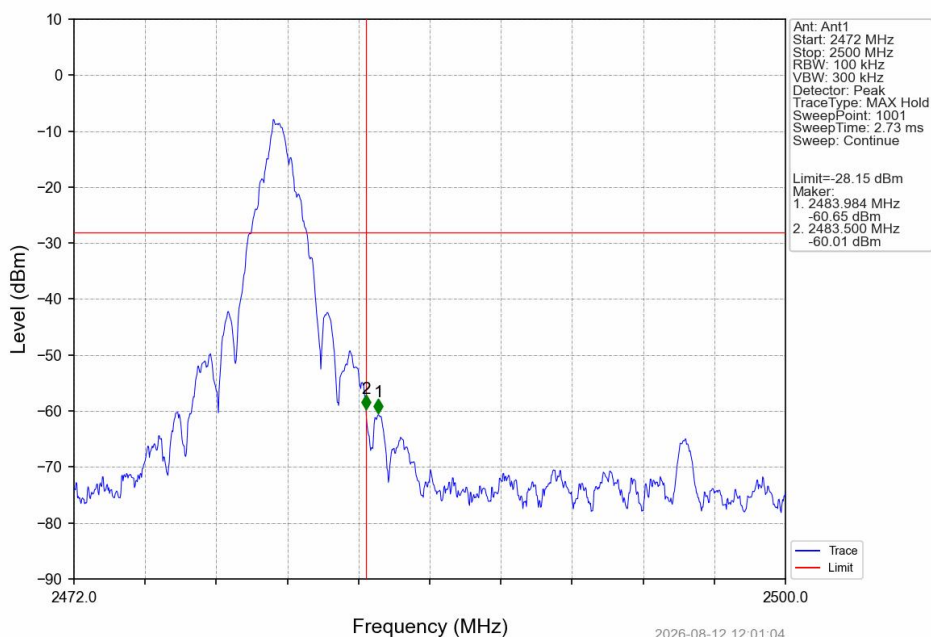




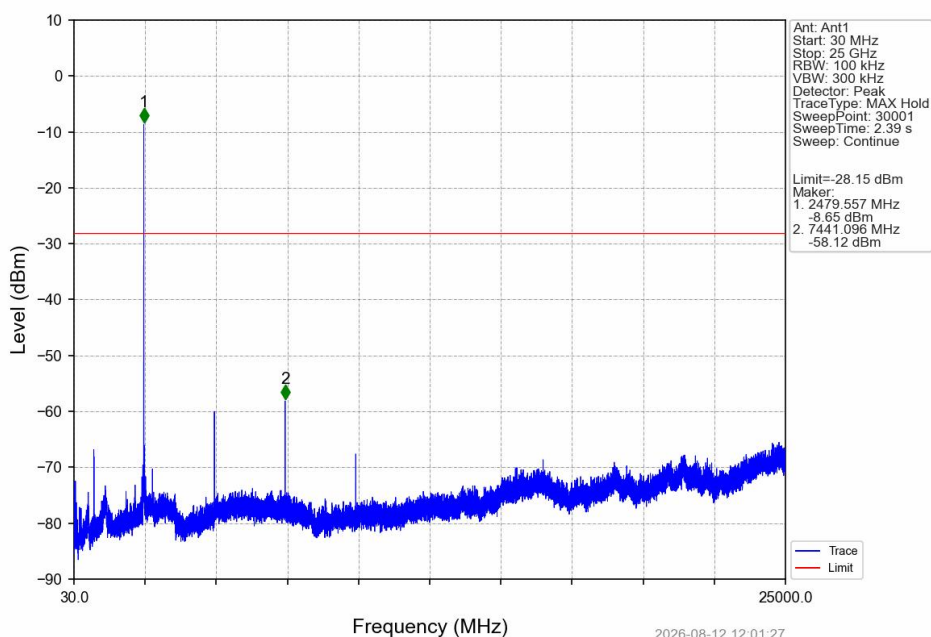
2.4G_MCH_2440MHz_Ant1_NTNV



2.4G_HCH_2480MHz_Ant1_NTNV



2.4G_HCH_2480MHz_Ant1_NTNV



2.4G_HOPP_Ant1_NTNV

