

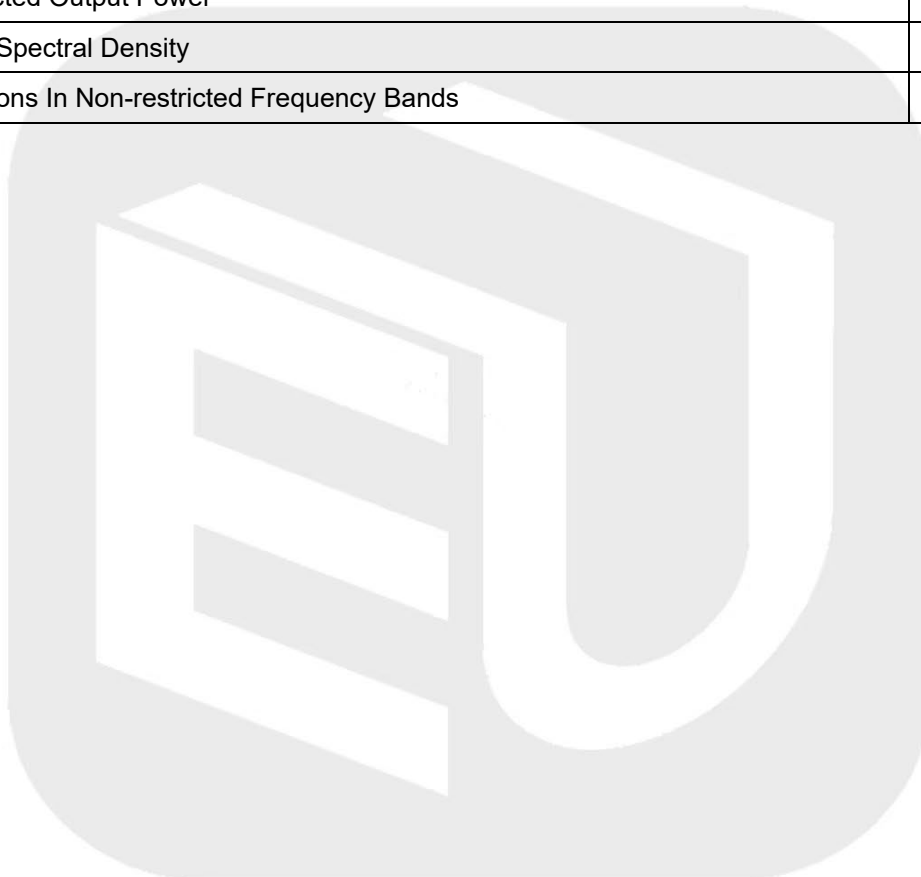
ANNEX D TEST DATA

For

Project No.:	8227EU121502W
Client:	Beijing Tongyong Technology Co., LTD
Product Name:	Wireless Mechanical Keyboard
Model No.:	ZN84
FCC ID:	2BDK7-ZN84
Technology:	2.4G ISM Band (GFSK modulation)
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-03-21

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



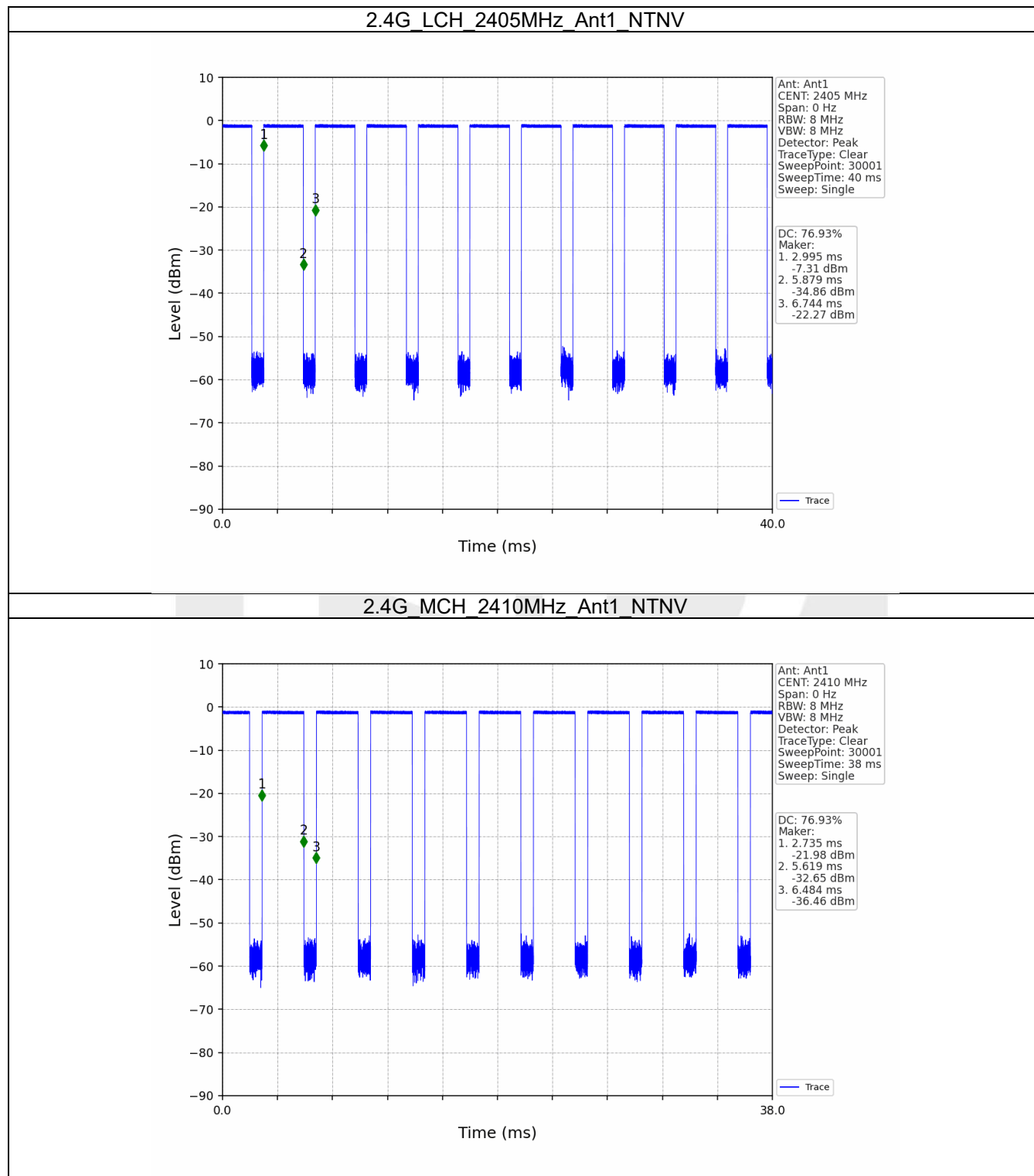
1. Duty Cycle

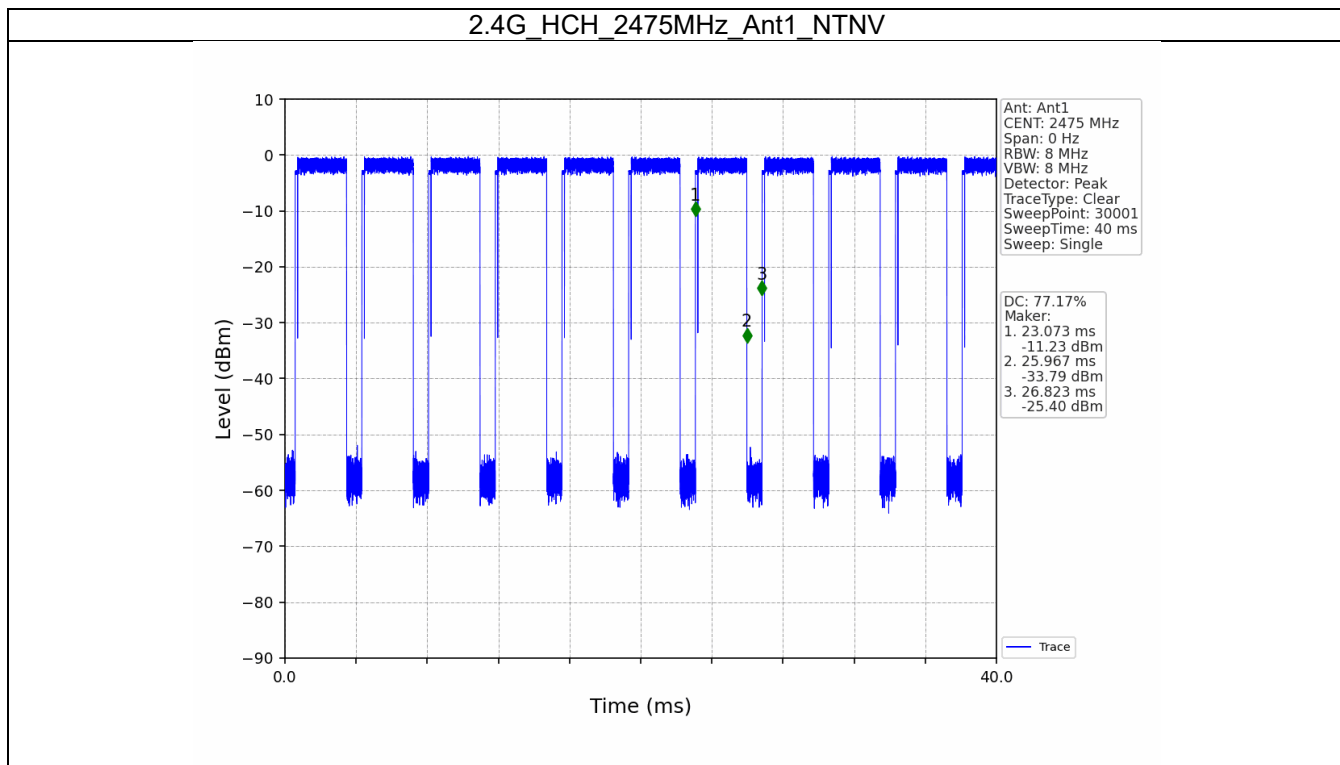
1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G	SISO	2405	2.884	3.749	76.93	1.14	0.04
		2410	2.884	3.749	76.93	1.14	0.01
		2475	2.894	3.750	77.17	1.13	0.04

1.1.2 Test Graph





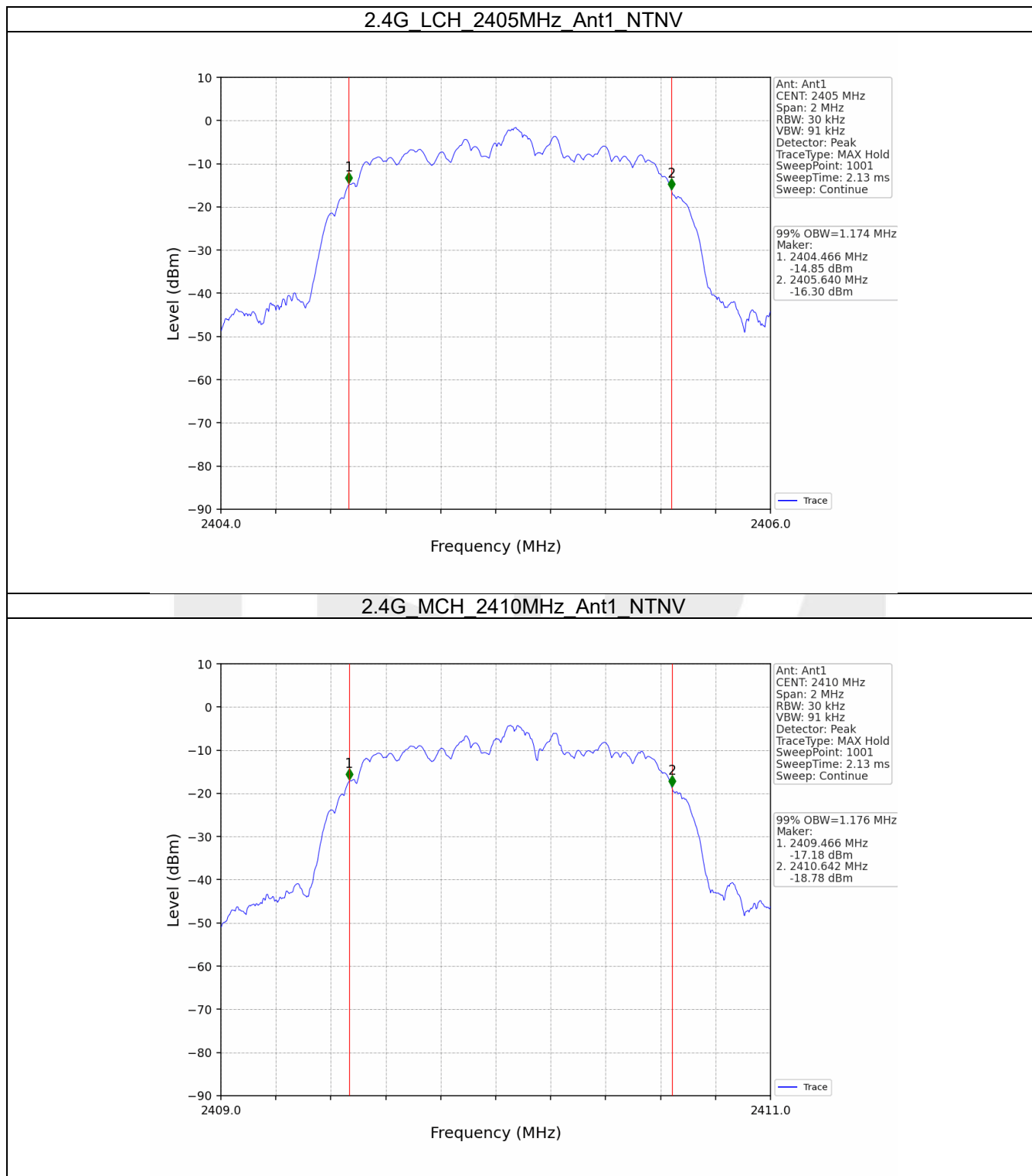
2. Bandwidth

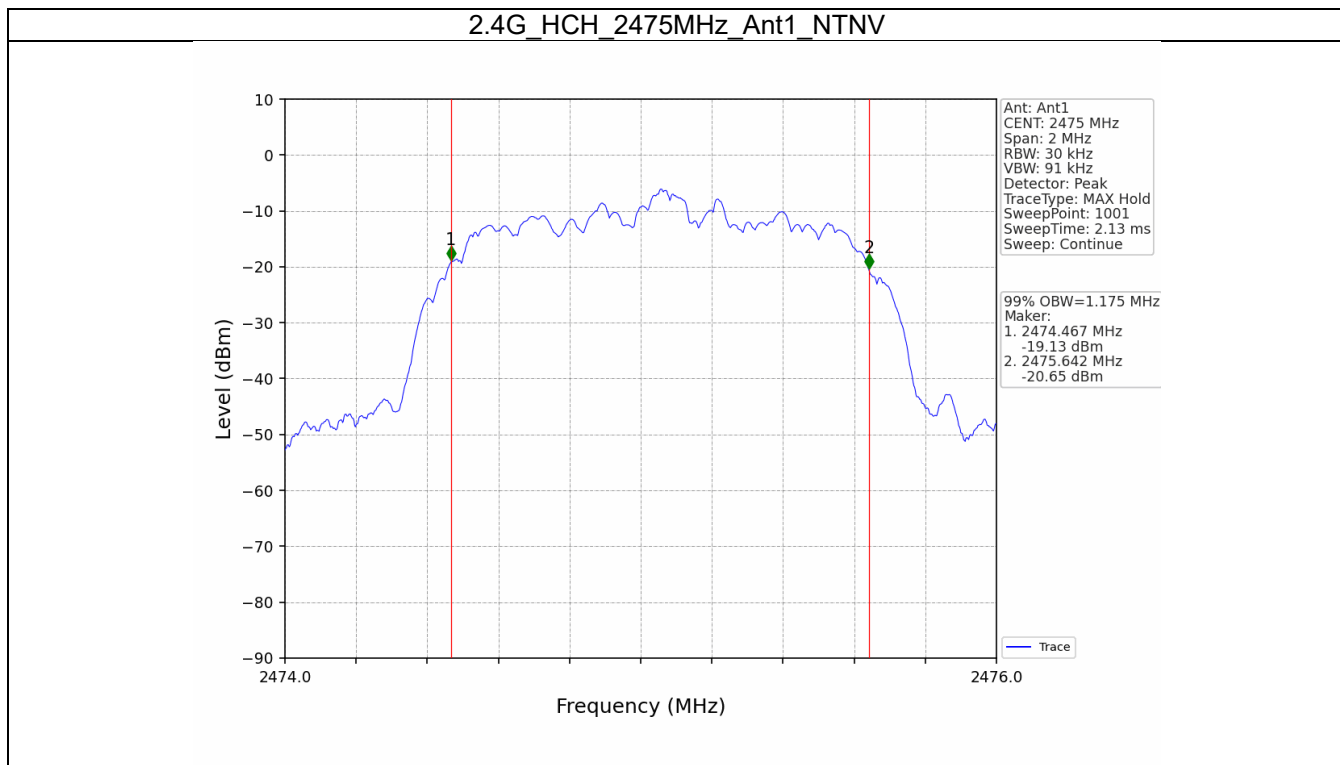
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
2.4G	SISO	2405	1	1.174	Pass
		2410	1	1.176	Pass
		2475	1	1.175	Pass

2.1.2 Test Graph





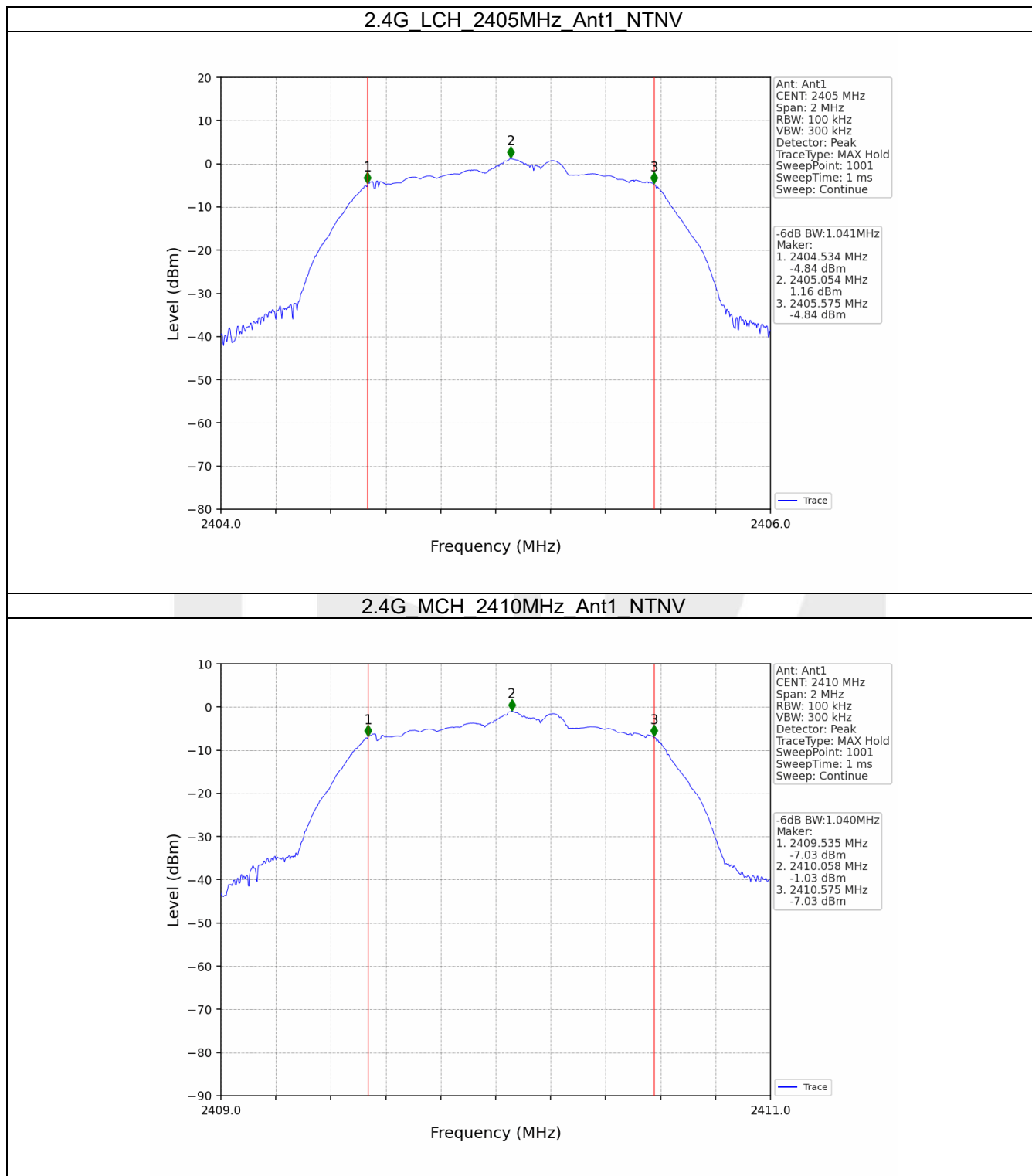
2.2 6dB BW

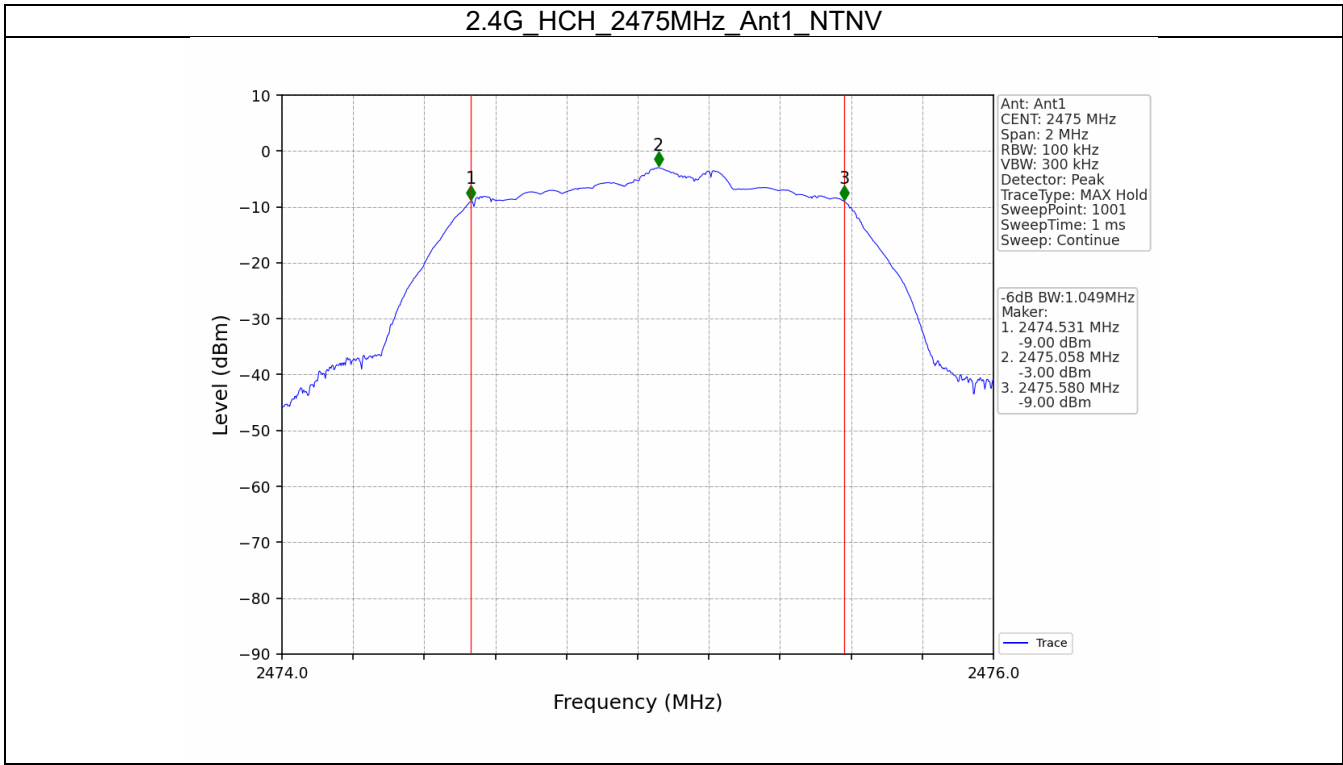
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G	SISO	2405	1	1.041	≥ 0.5	Pass
		2410	1	1.040	≥ 0.5	Pass
		2475	1	1.049	≥ 0.5	Pass



2.2.2 Test Graph





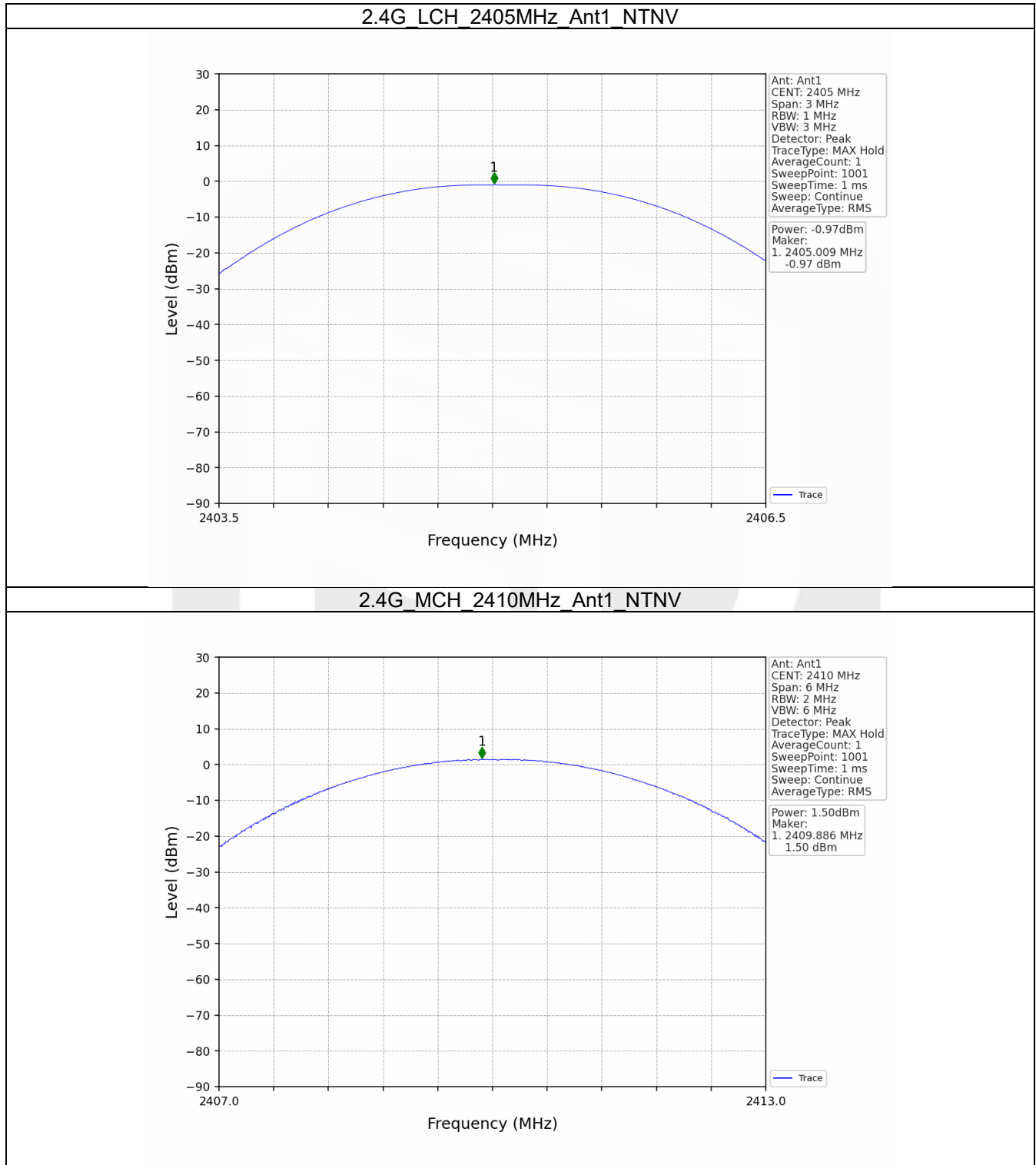
3. Maximum Conducted Output Power

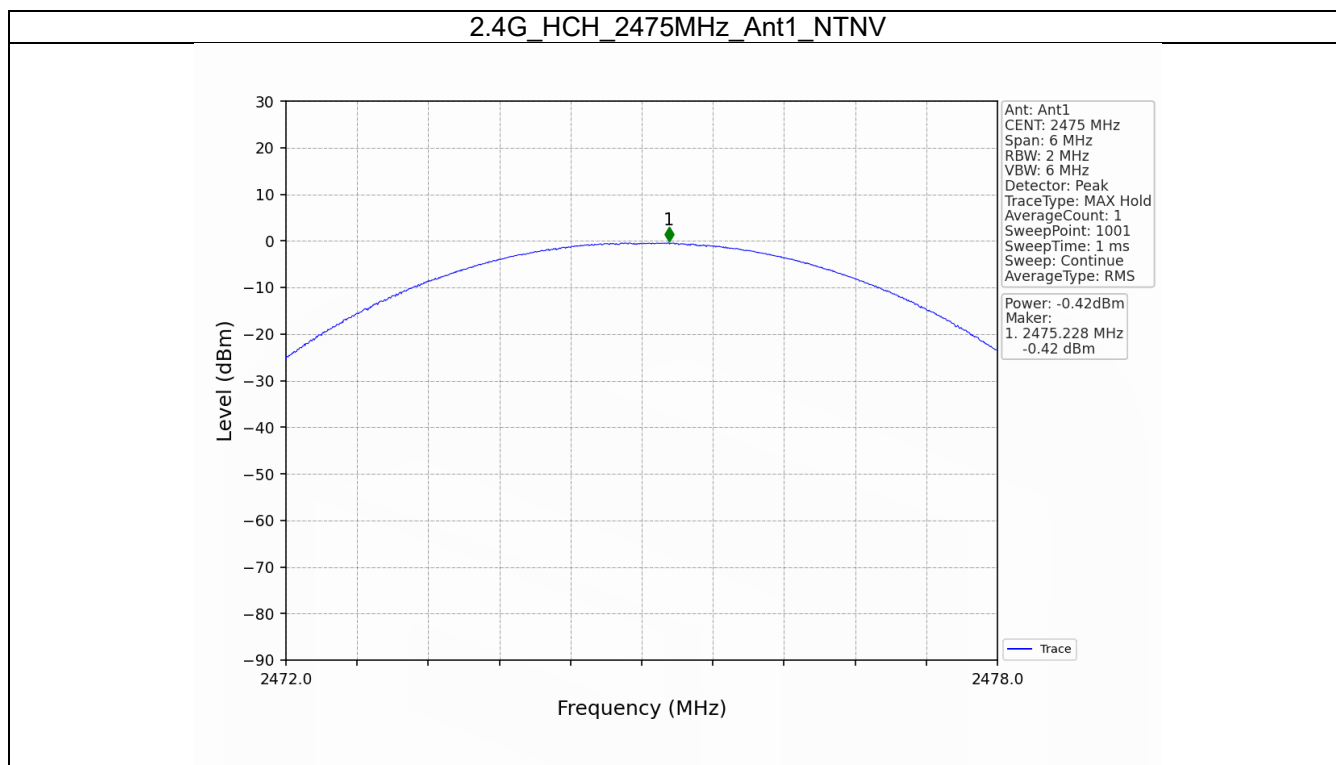
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
2.4G	SISO	2405	-0.97	<=30	Pass
		2410	1.50	<=30	Pass
		2475	-0.42	<=30	Pass

3.1.2 Test Graph





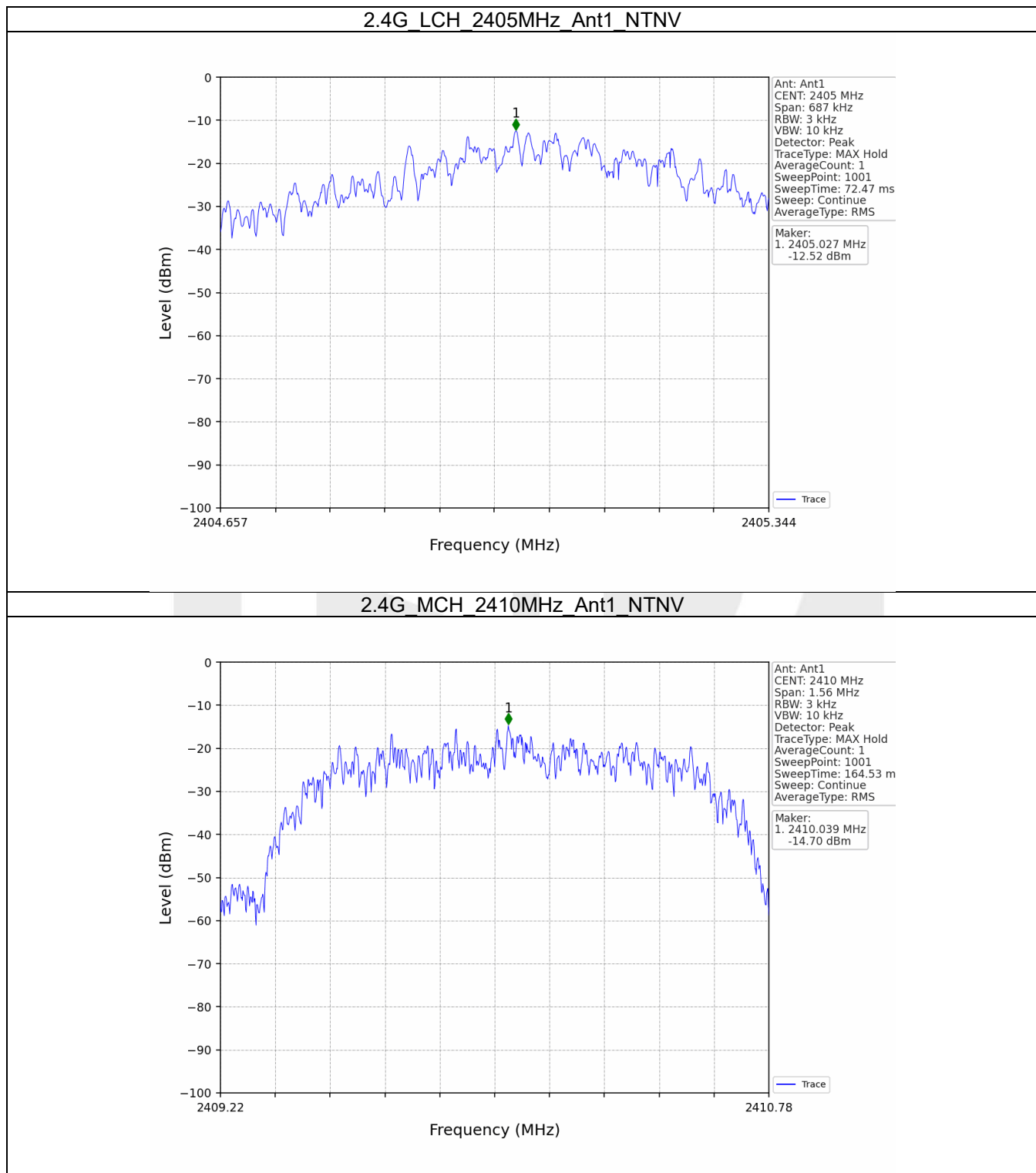
4. Maximum Power Spectral Density

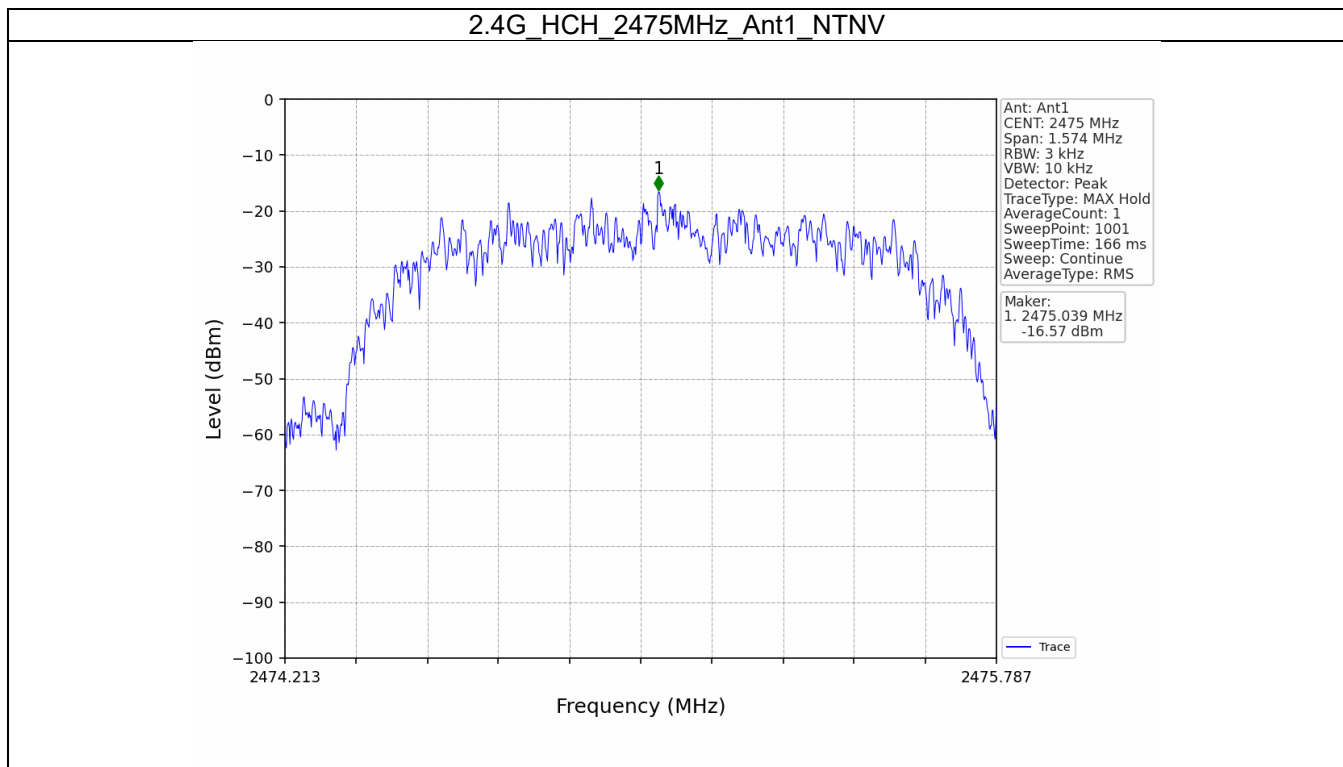
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
2.4G	SISO	2405	-12.52	<=8	Pass
		2410	-14.70	<=8	Pass
		2475	-16.57	<=8	Pass

4.1.2 Test Graph





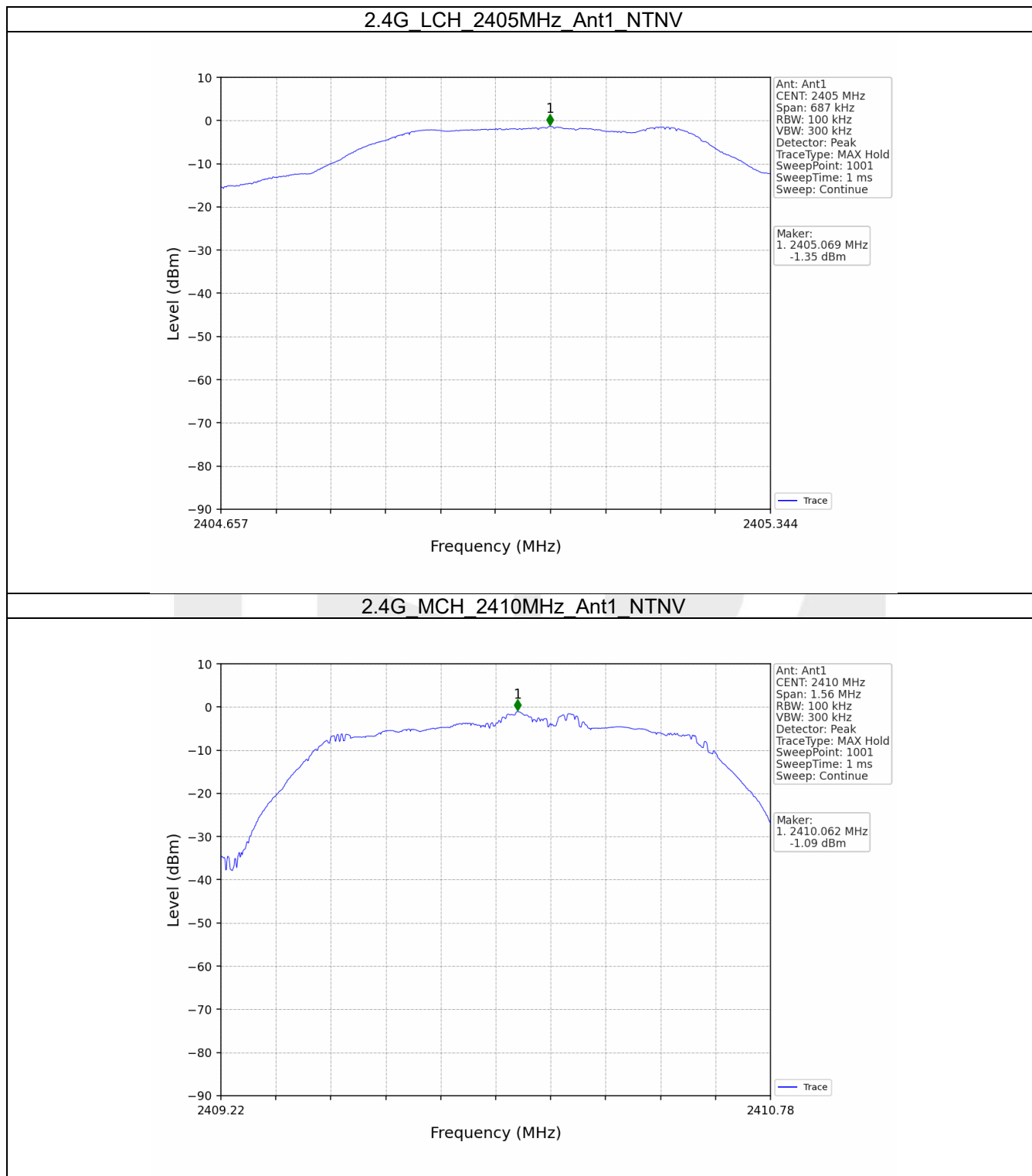
5. Unwanted Emissions In Non-restricted Frequency Bands

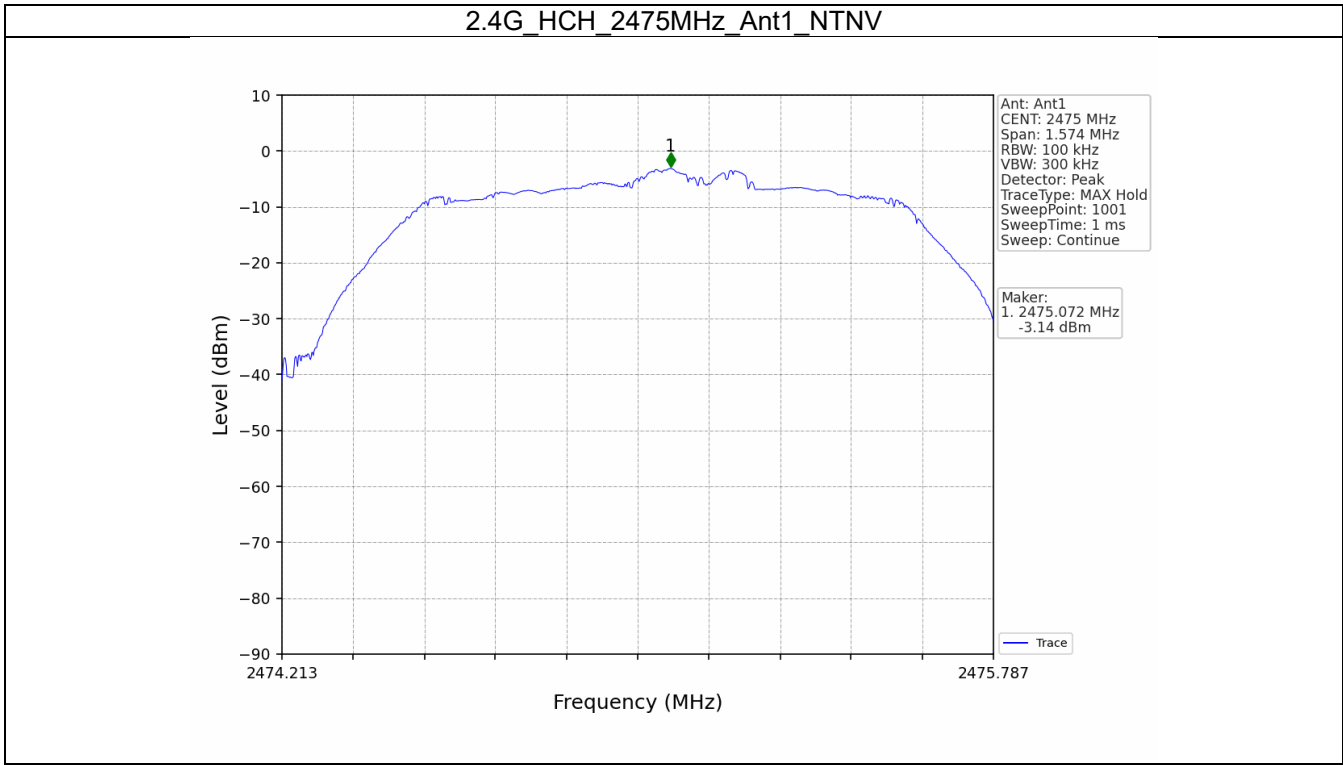
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2.4G	SISO	2405	1	-1.35
		2410	1	-1.09
		2475	1	-3.14
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

5.1.2 Test Graph



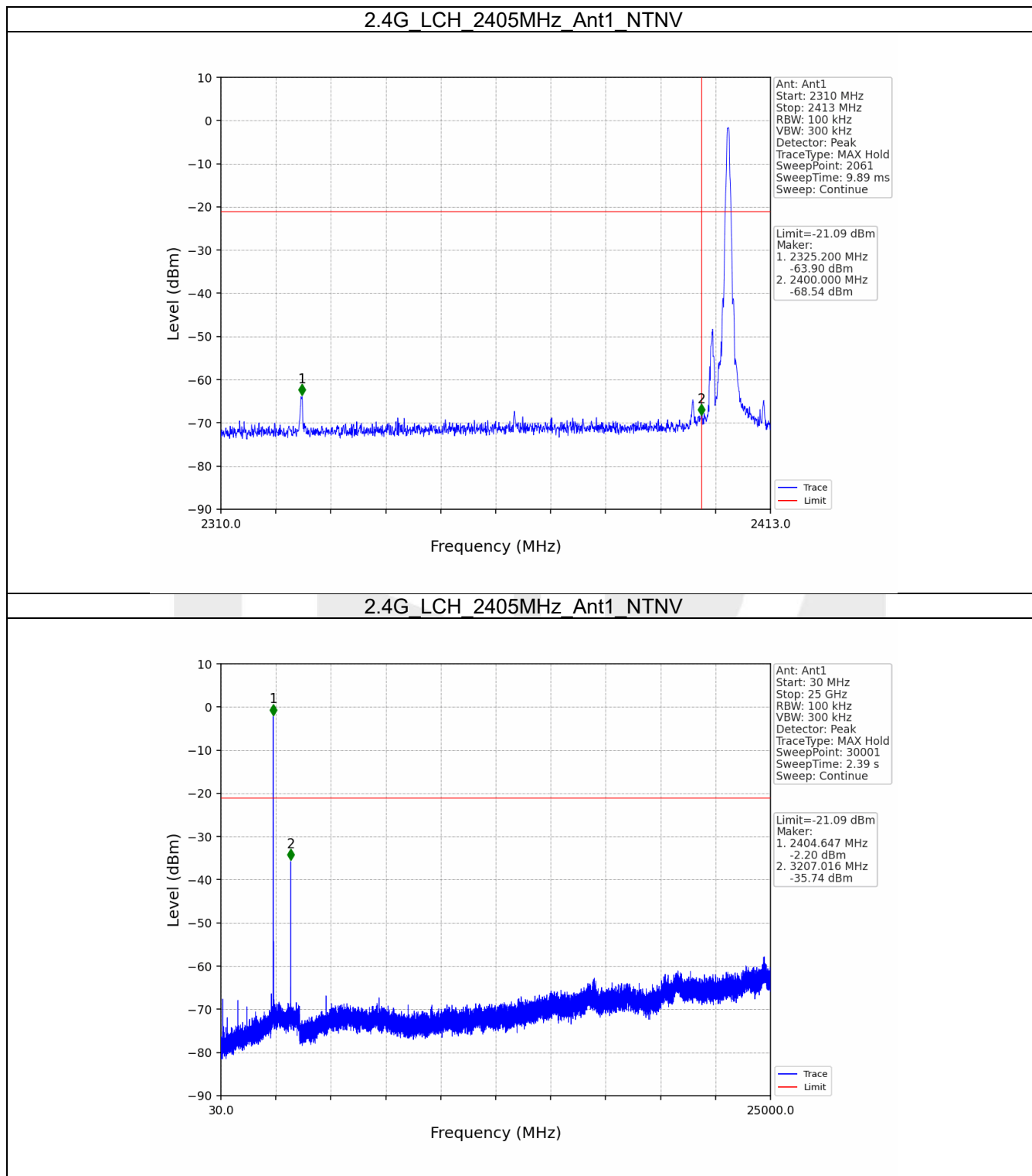


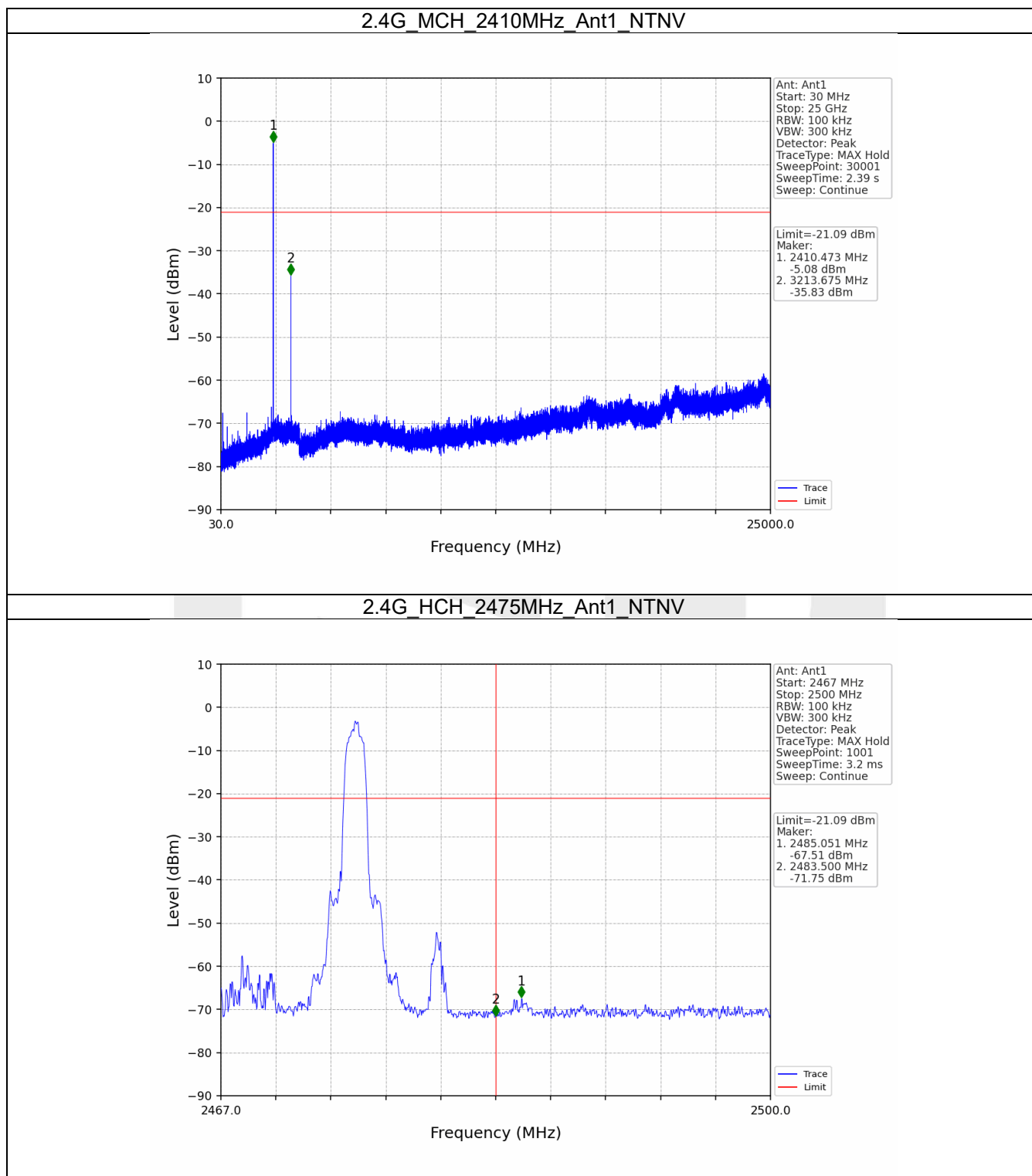
5.2 CSE

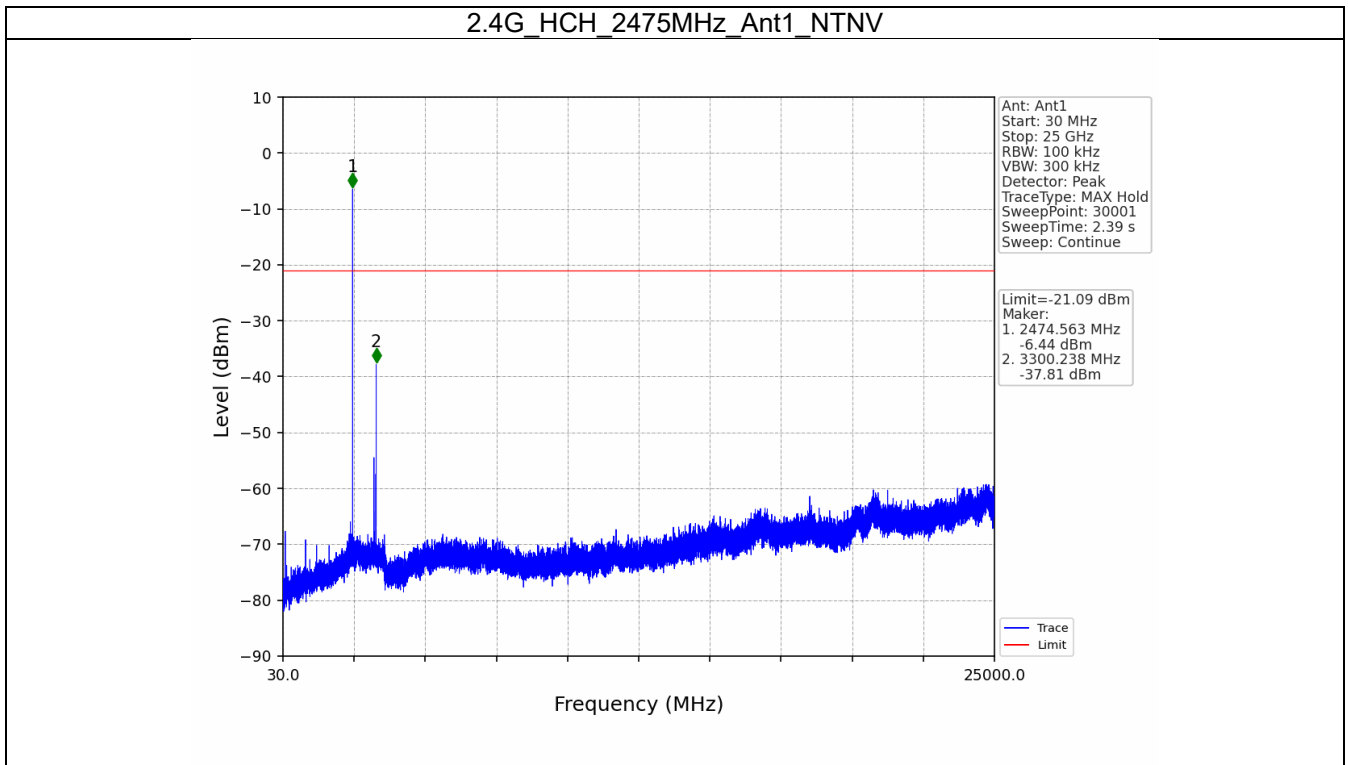
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2.4G	SISO	2405	1	-1.09	-21.09	Pass
		2410	1	-1.09	-21.09	Pass
		2475	1	-1.09	-21.09	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

5.2.2 Test Graph







----- End of Report -----