

RF Test Report

For

Project No.:	DLE-250527018R
Client:	Hu Bei Zuan Ma Intelligent Control Technology Co.,LTD
Manufacturer:	Hu Bei Zuan Ma Intelligent Control Technology Co.,LTD
Product Description:	game controller
Model Number:	T47
Test Engineer:	Alisa Song
Test Date:	2025-05-30

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
Frequency Error	Pass
Form731	Pass

1. Duty Cycle

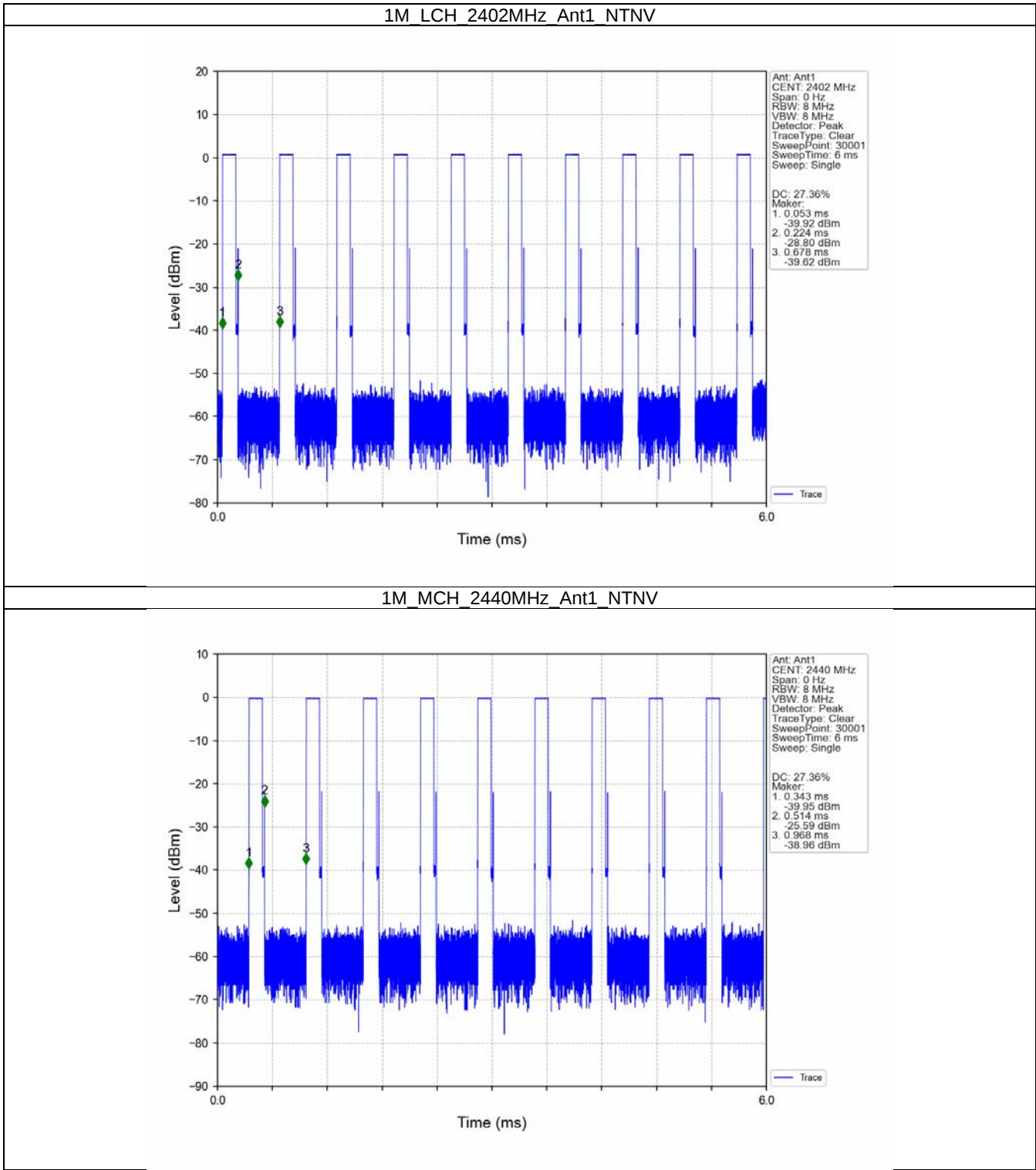
1.1 Test Result

1.1.1 Ant1

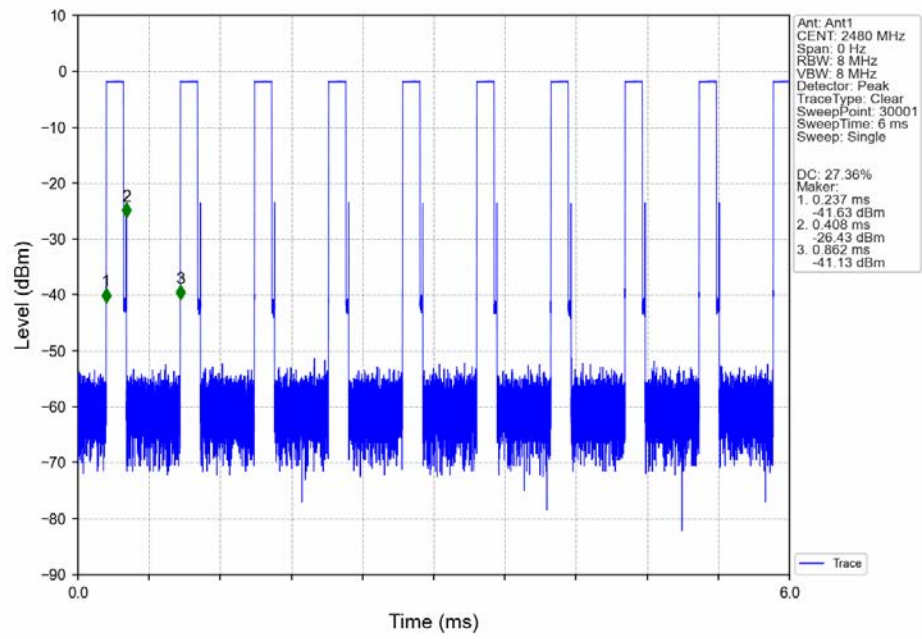
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.171	0.625	27.36	5.63	0.00
		2440	0.171	0.625	27.36	5.63	0.00
		2480	0.171	0.625	27.36	5.63	0.00

1.2 Test Graph

1.2.1 Ant1



1M HCH 2480MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

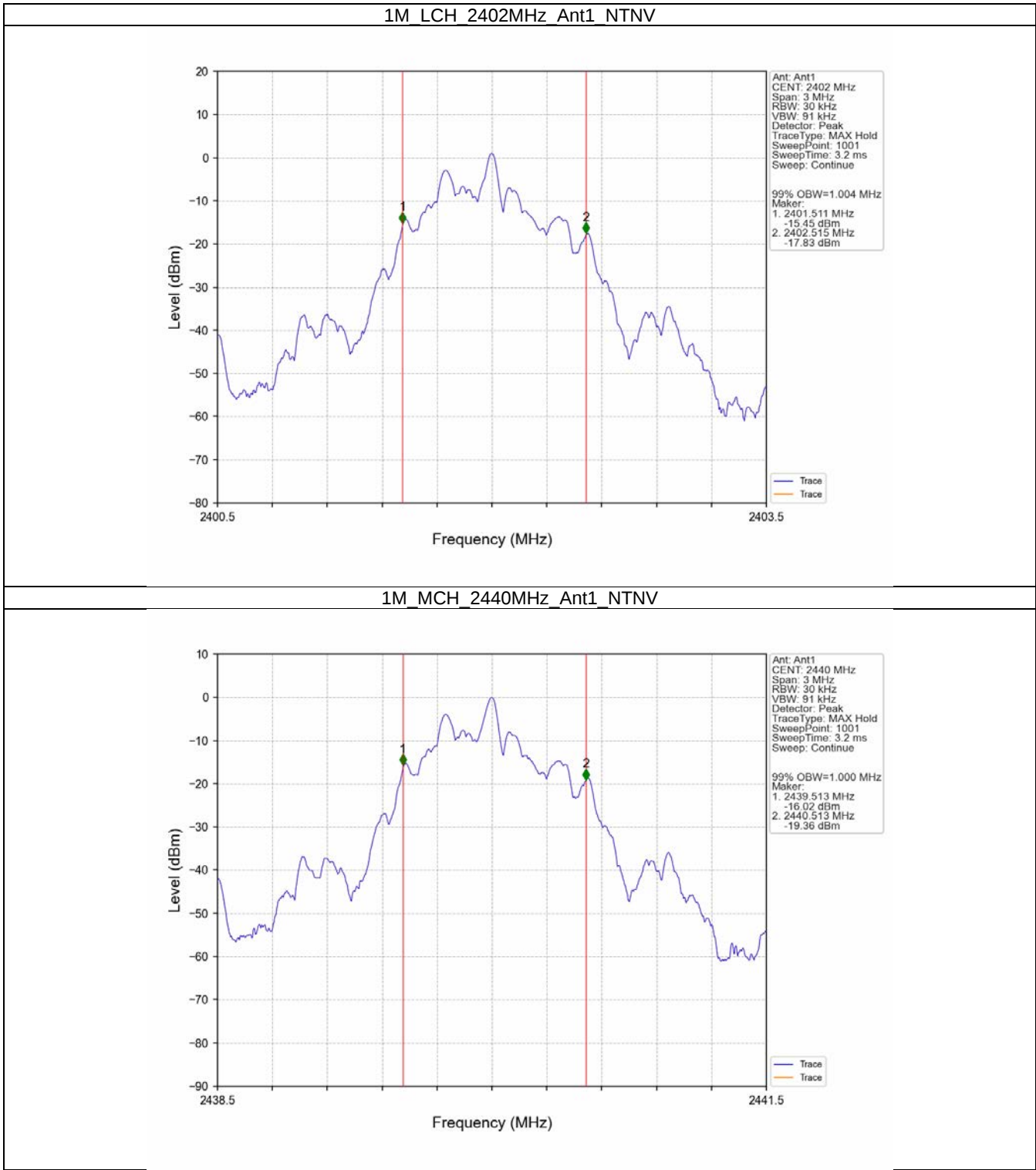
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.004	/	Pass
		2440	1	1.000	/	Pass
		2480	1	1.004	/	Pass

2.1.2 6dB BW

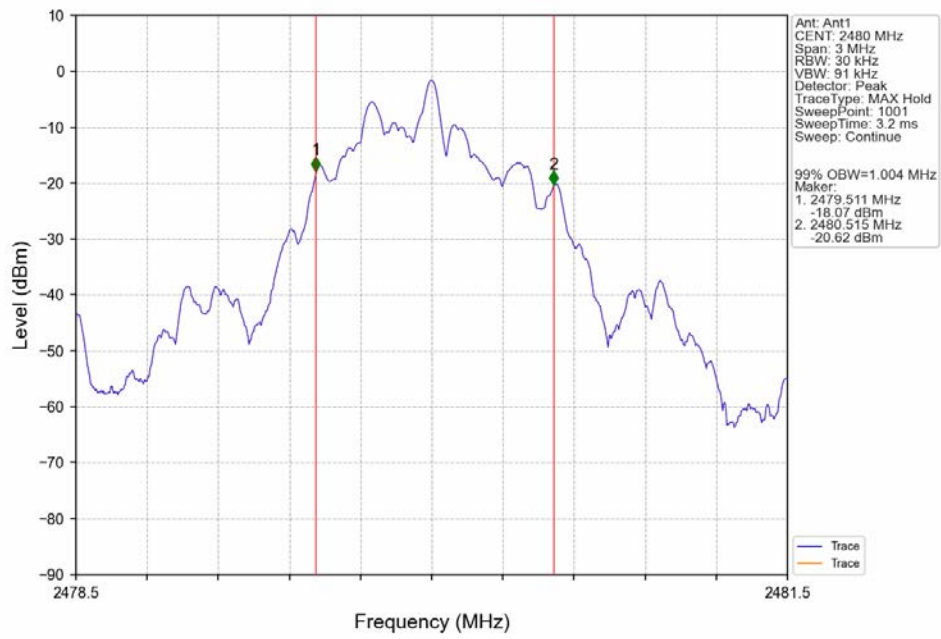
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.508	≥ 0.5	Pass
		2440	1	0.507	≥ 0.5	Pass
		2480	1	0.507	≥ 0.5	Pass

2.2 Test Graph

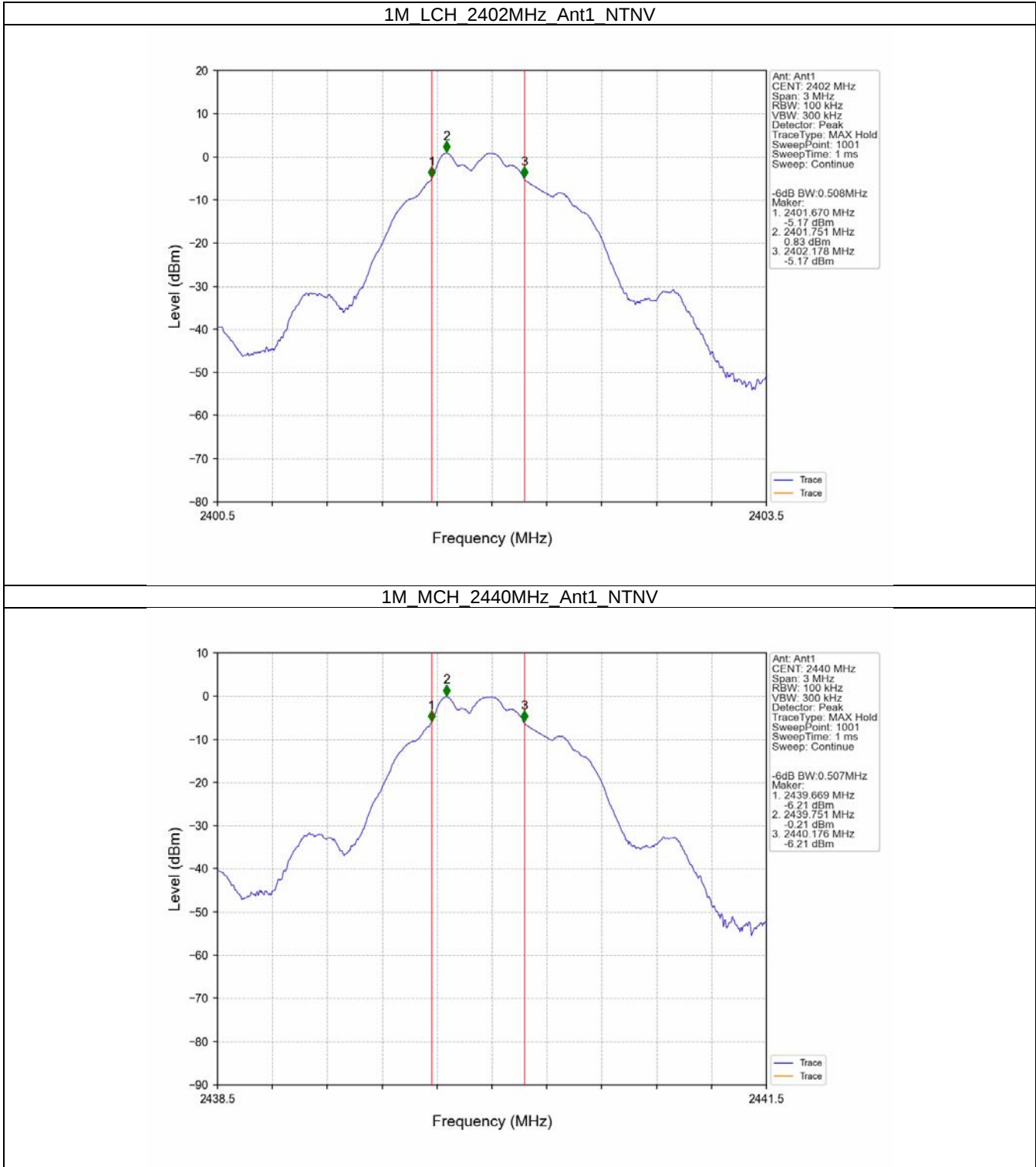
2.2.1 OBW



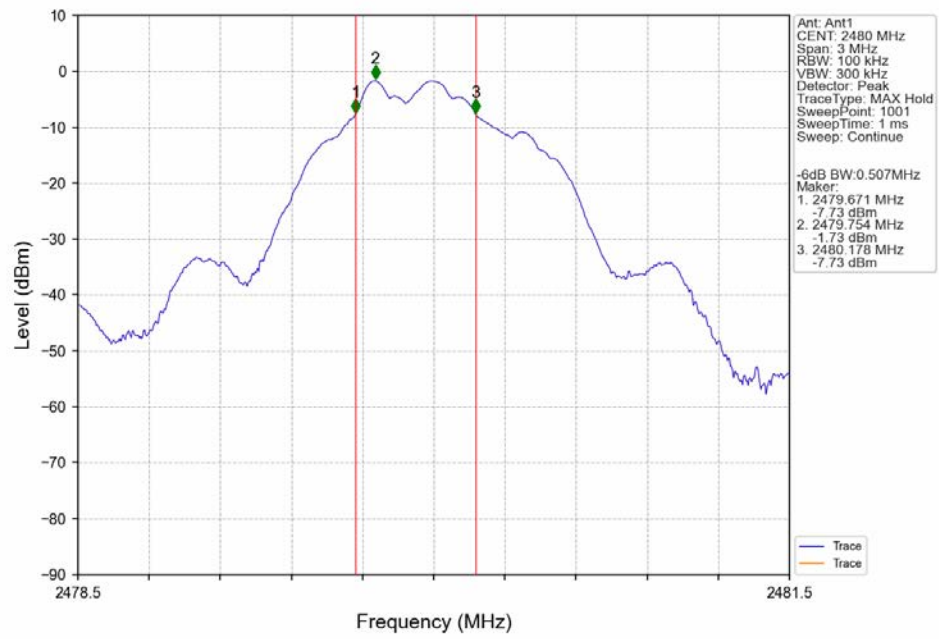
1M HCH 2480MHz Ant1 NTN



2.2.2 6dB BW



1M HCH 2480MHz Ant1 NTN



3. Maximum Conducted Output Power

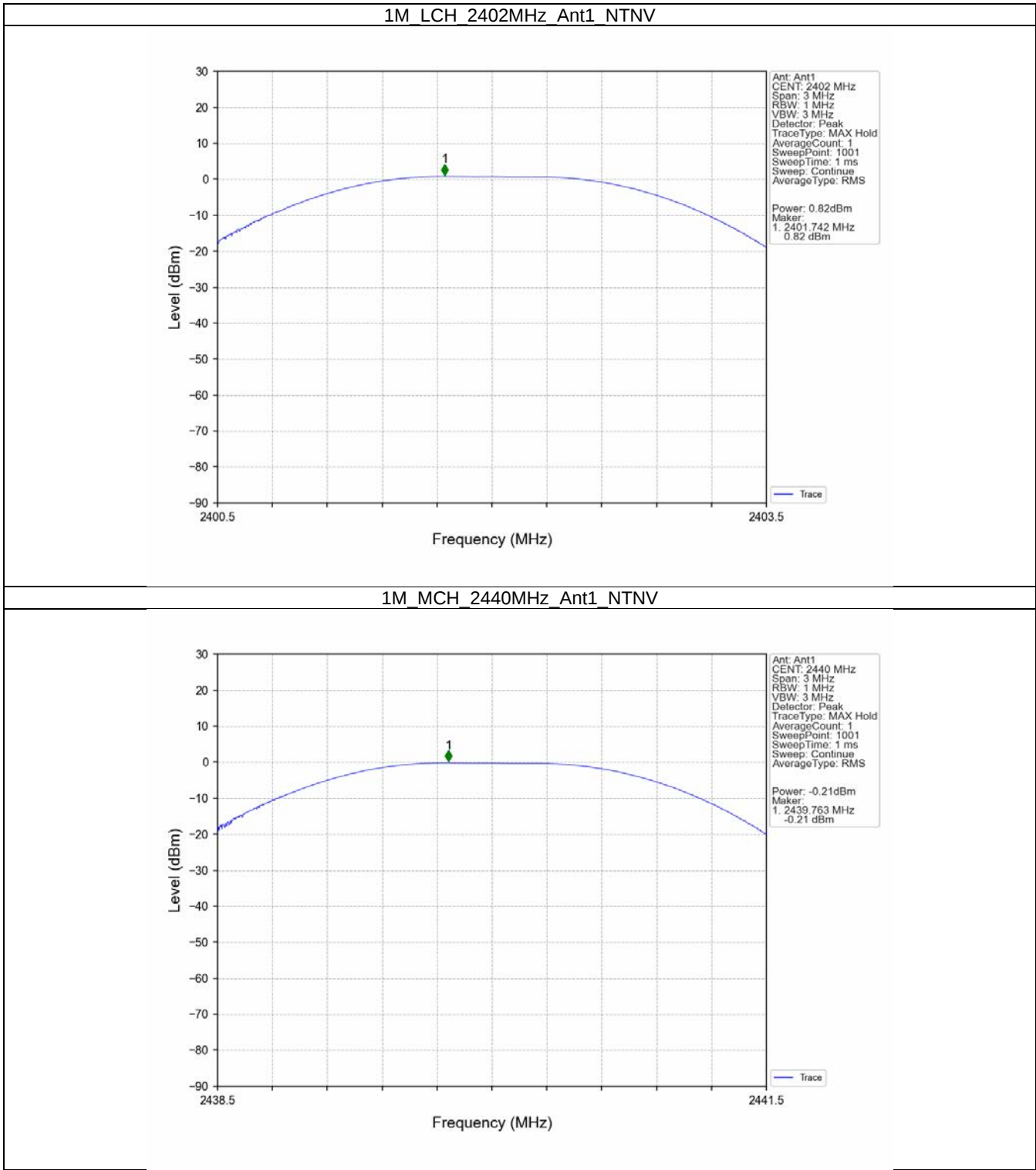
3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	0.82	<=30	Pass
		2440	-0.21	<=30	Pass
		2480	-1.71	<=30	Pass
Note1: Antenna Gain: Ant1: 2.64dBi;					

3.2 Test Graph

3.2.1 Power



1M_MCH_2440MHz_Ant1_NTV

Level (dBm)

Frequency (MHz)

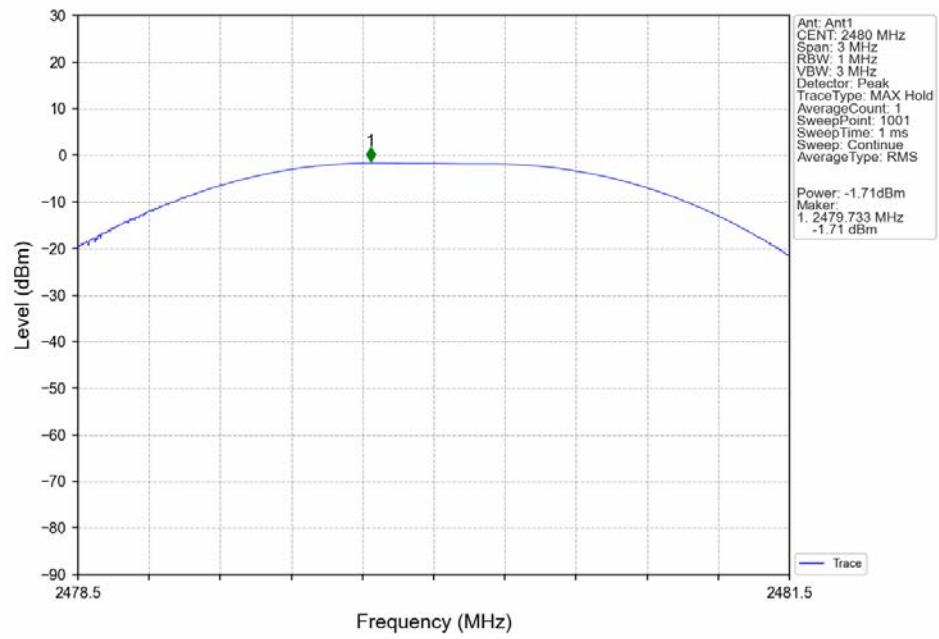
Trace

1

2438.5

2441.5

1M HCH 2480MHz Ant1 NTN



4. Maximum Power Spectral Density

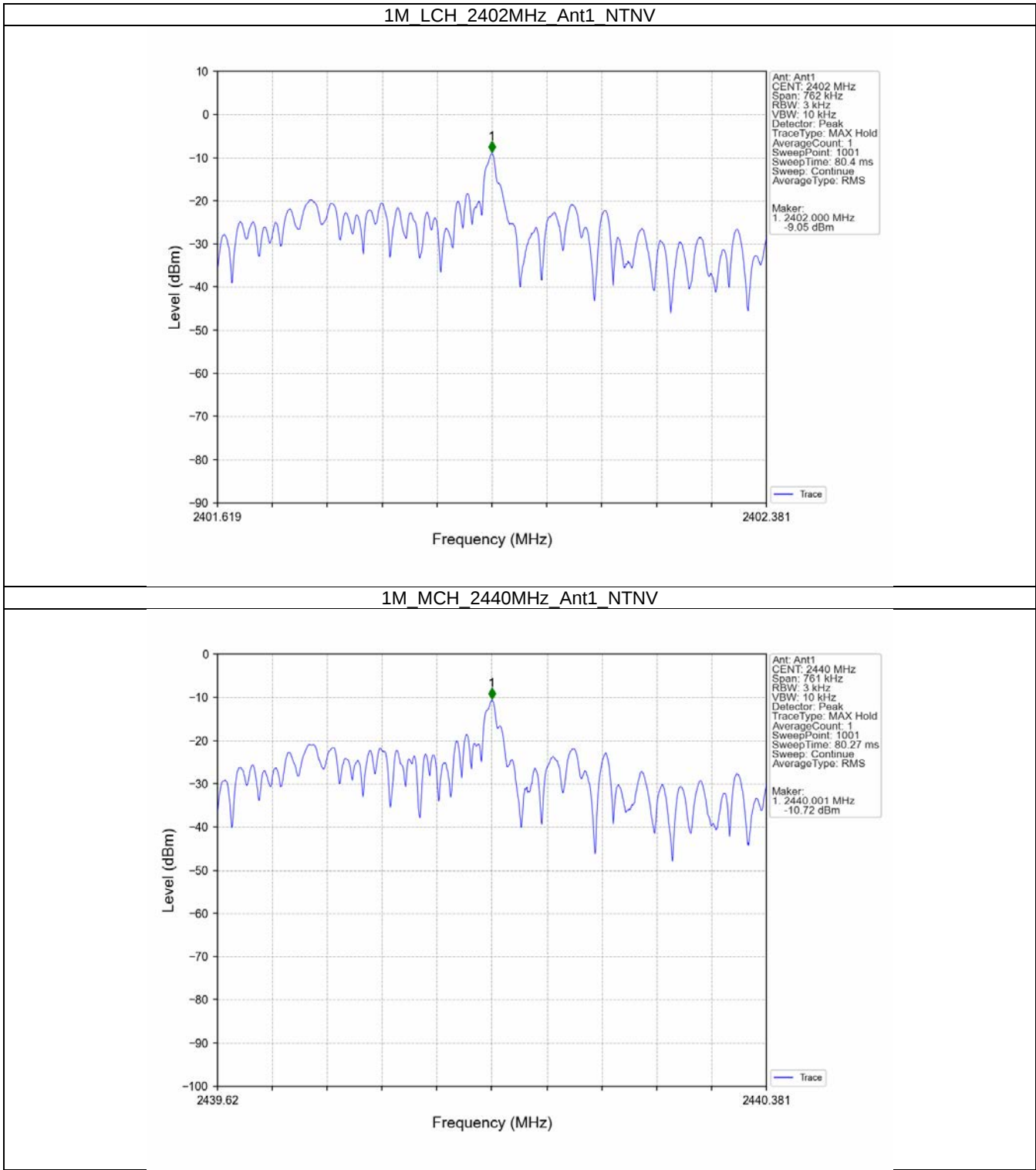
4.1 Test Result

4.1.1 PSD

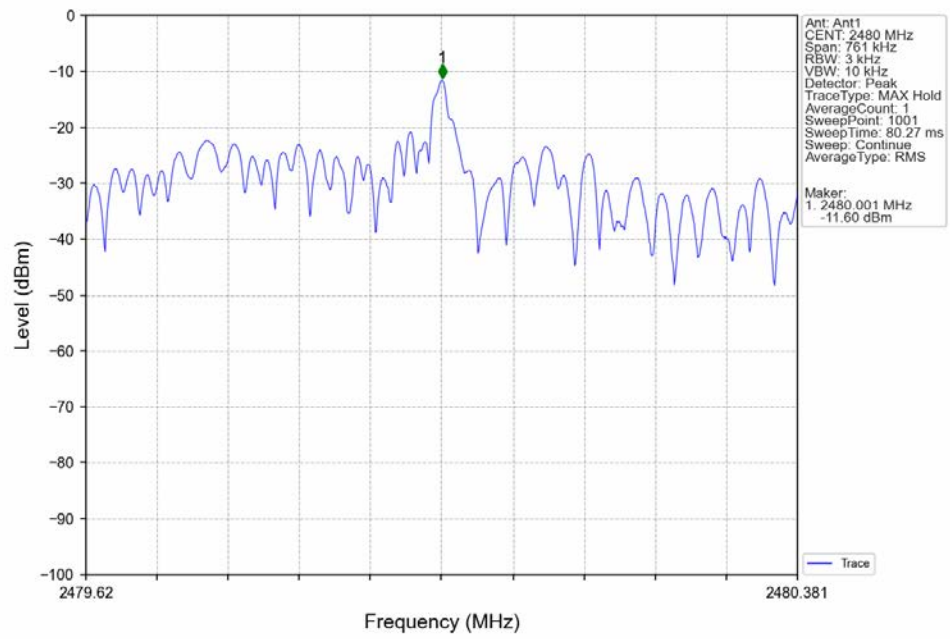
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-9.05	<=8	Pass
		2440	-10.72	<=8	Pass
		2480	-11.60	<=8	Pass
Note1: Antenna Gain: Ant1: 2.64dBi;					

4.2 Test Graph

4.2.1 PSD



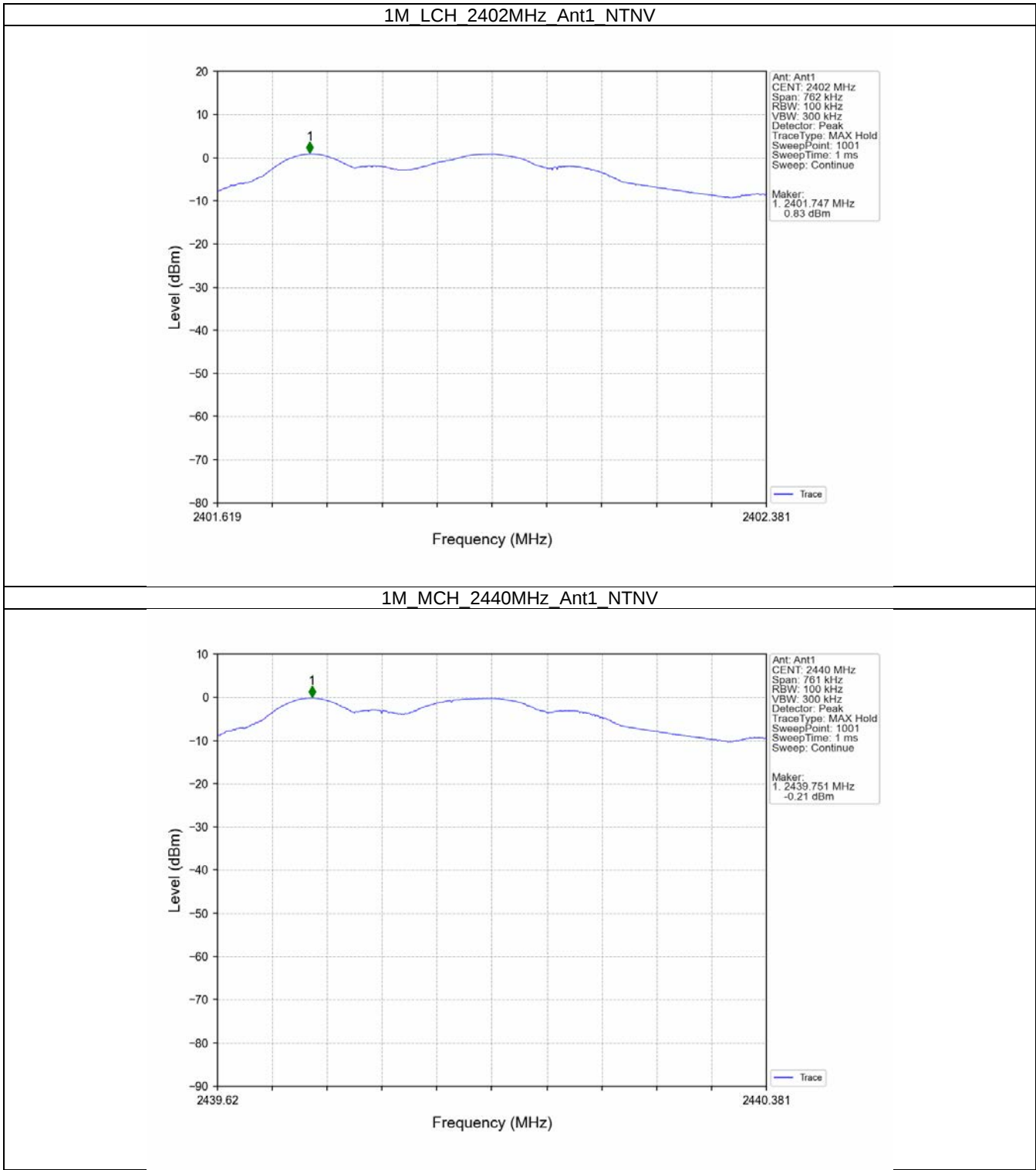
1M HCH 2480MHz Ant1 NTN



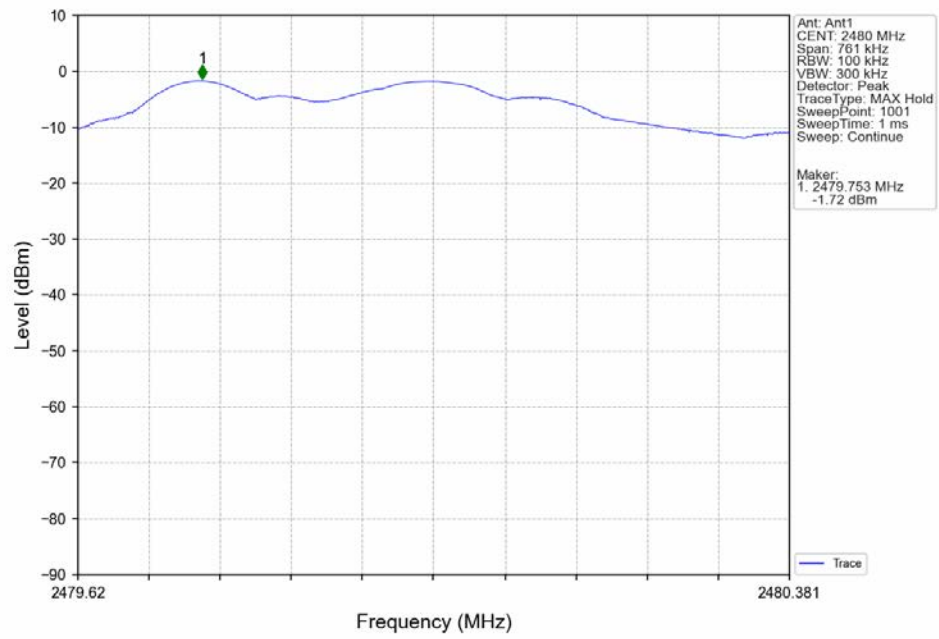
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.83	-19.17	Pass
		2440	1	-0.21	-20.21	Pass
		2480	1	-1.72	-21.72	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

5.2 Test Graph

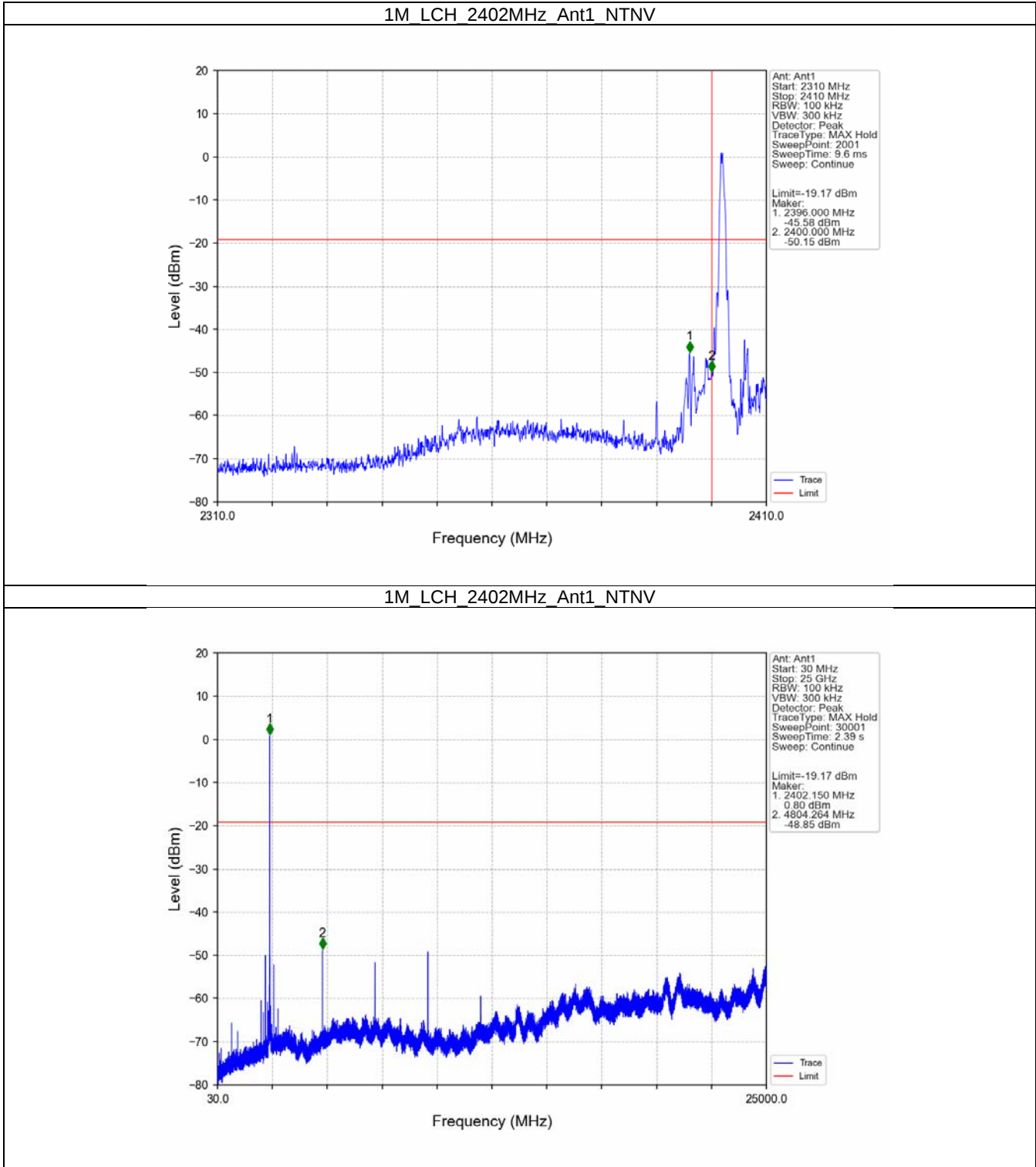
5.2.1 Ref



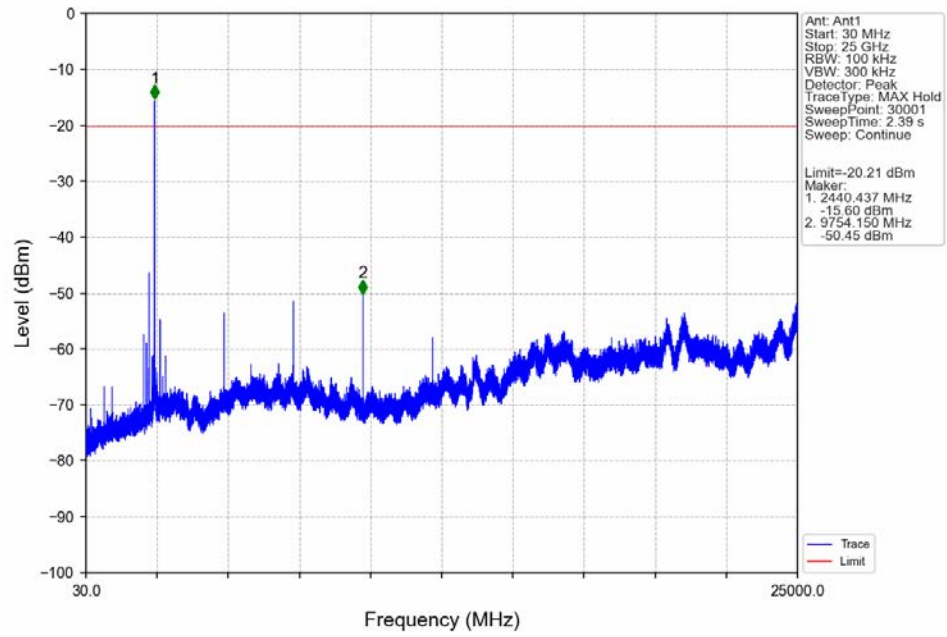
1M HCH 2480MHz Ant1 NTN



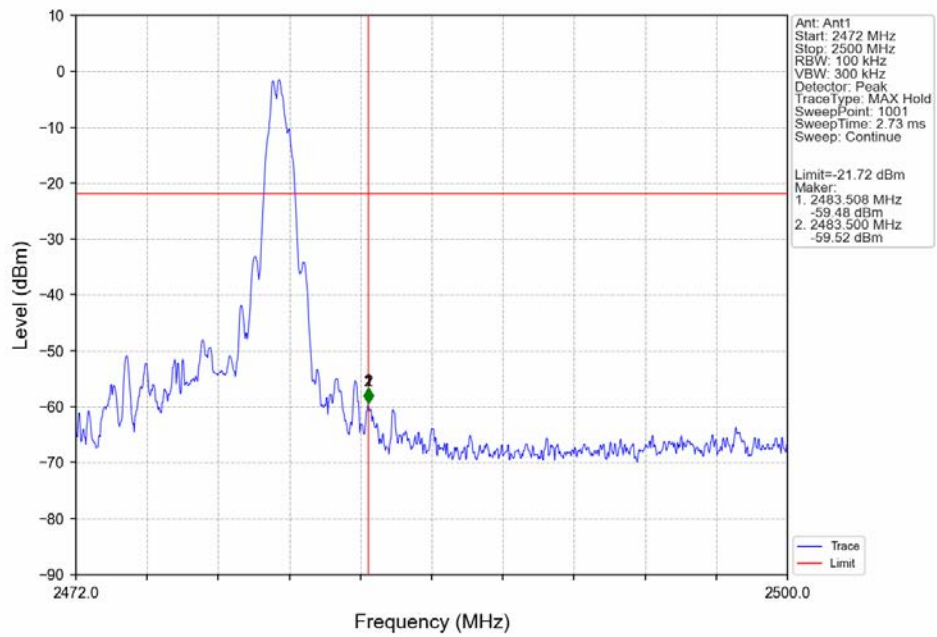
5.2.2 CSE



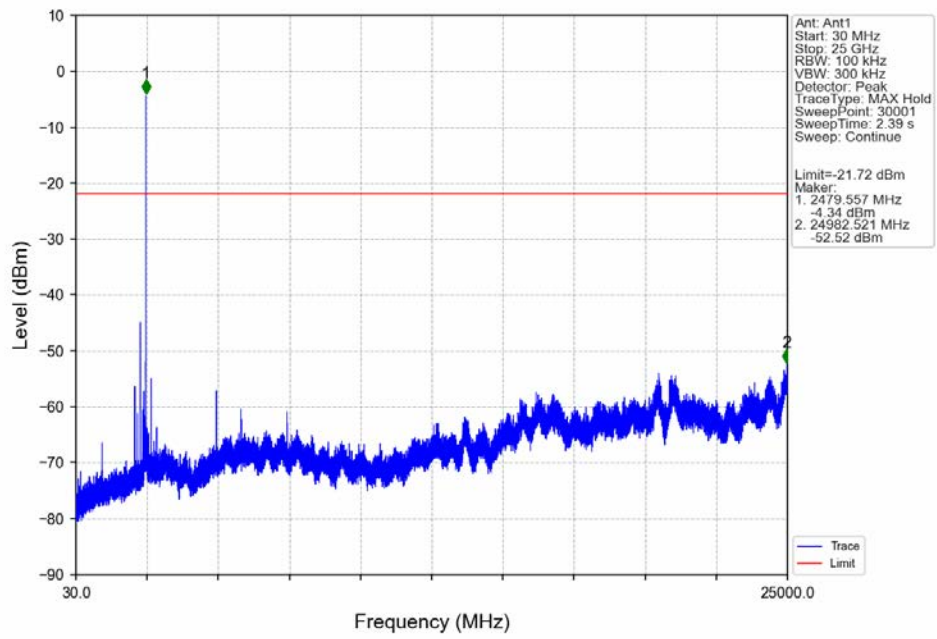
1M MCH 2440MHz Ant1 NTNV



1M HCH 2480MHz Ant1 NTNV



1M HCH 2480MHz Ant1 NTN



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0012	0.82