

ANNEX D TEST DATA

For

Project No.:	8134EU012102W
Client:	POLYGEAR TECH
Product Description:	Wireless Keyboard
Model No.:	BTX5050
FCC ID:	2BDT7-BTX5050
Technology:	Bluetooth BLE
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2023-11-27

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
Unwanted Emissions In Restricted Frequency Bands	Pass

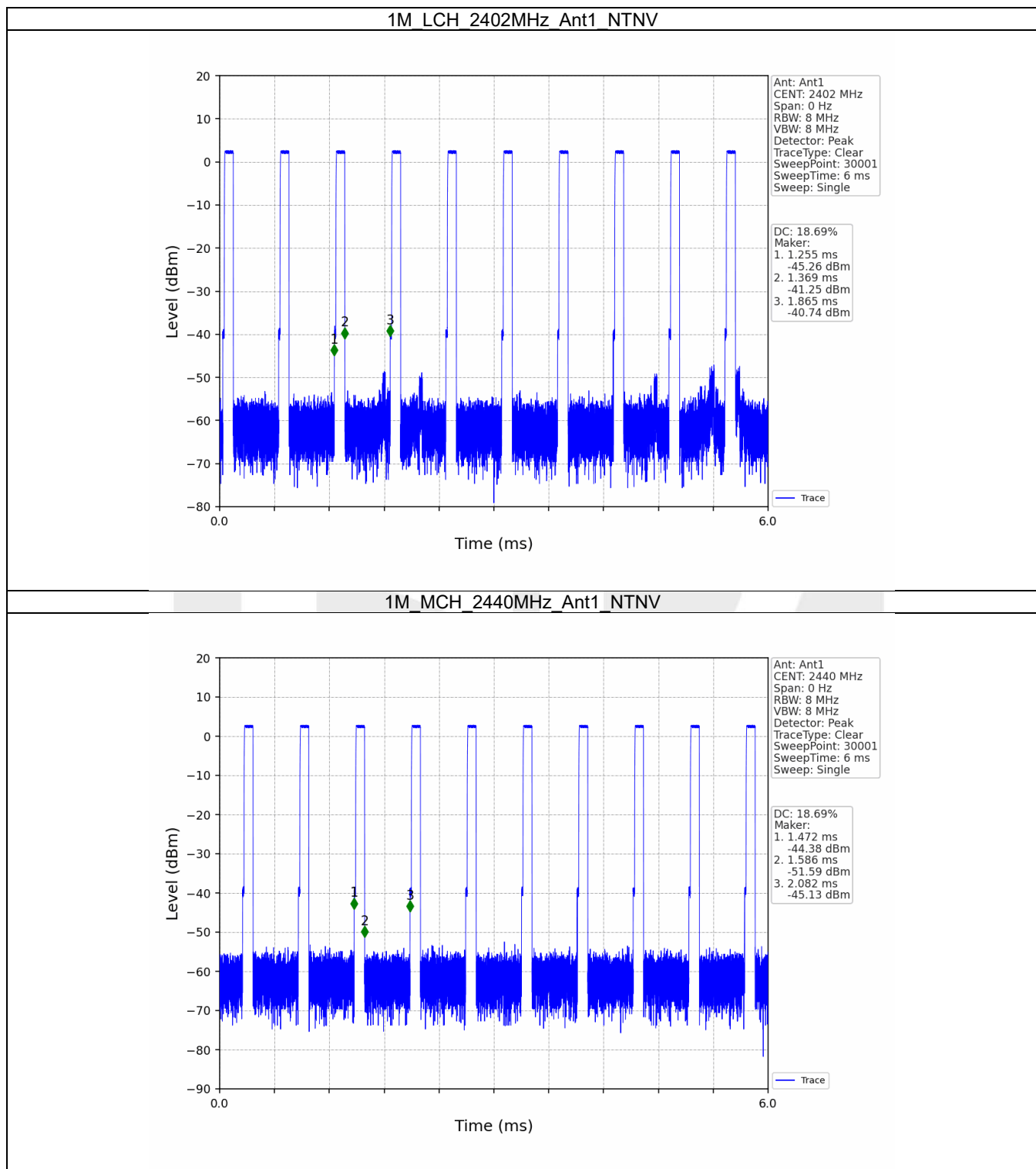
1. Duty Cycle

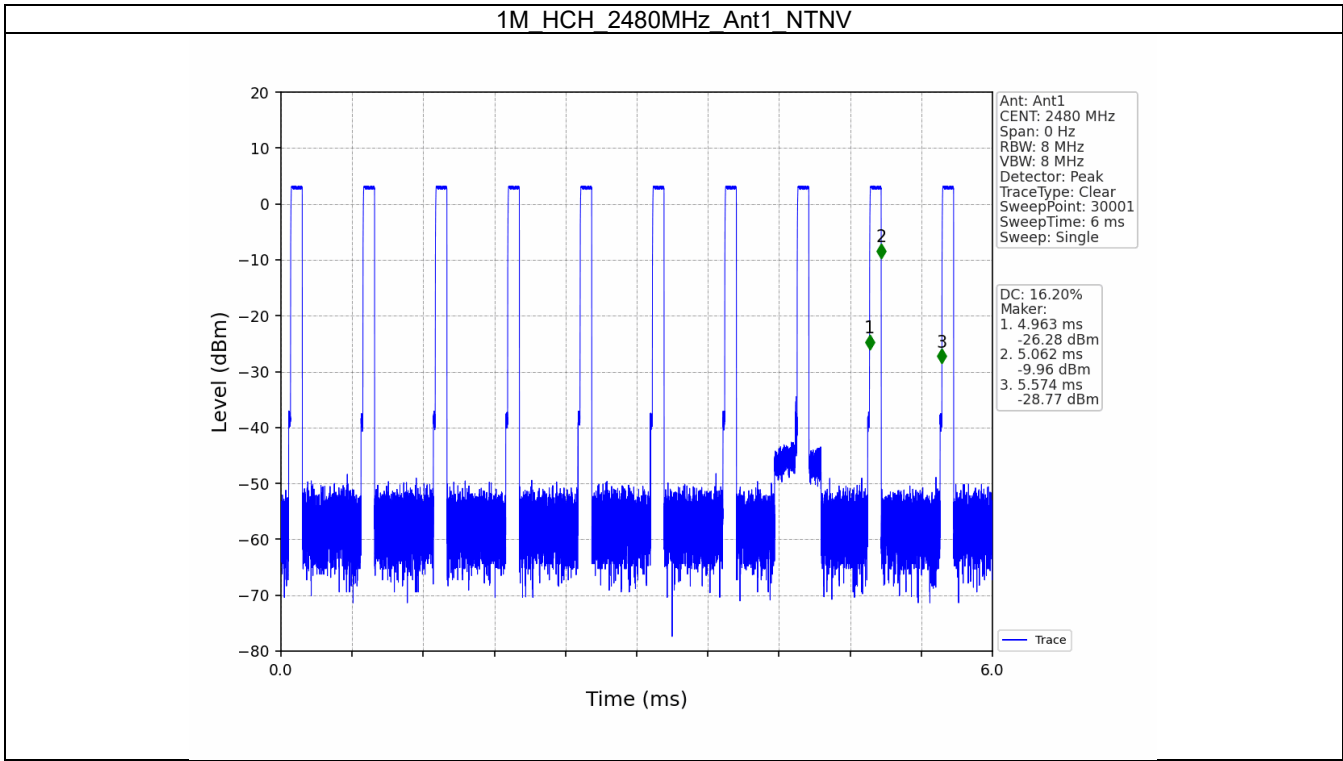
1.1 Ant1

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 (%)
1M	SISO	2402	0.114	0.610	18.69	7.28	0.16
		2440	0.114	0.610	18.69	7.28	0.16
		2480	0.099	0.611	16.20	7.90	0.17

1.1.2 Test Graph





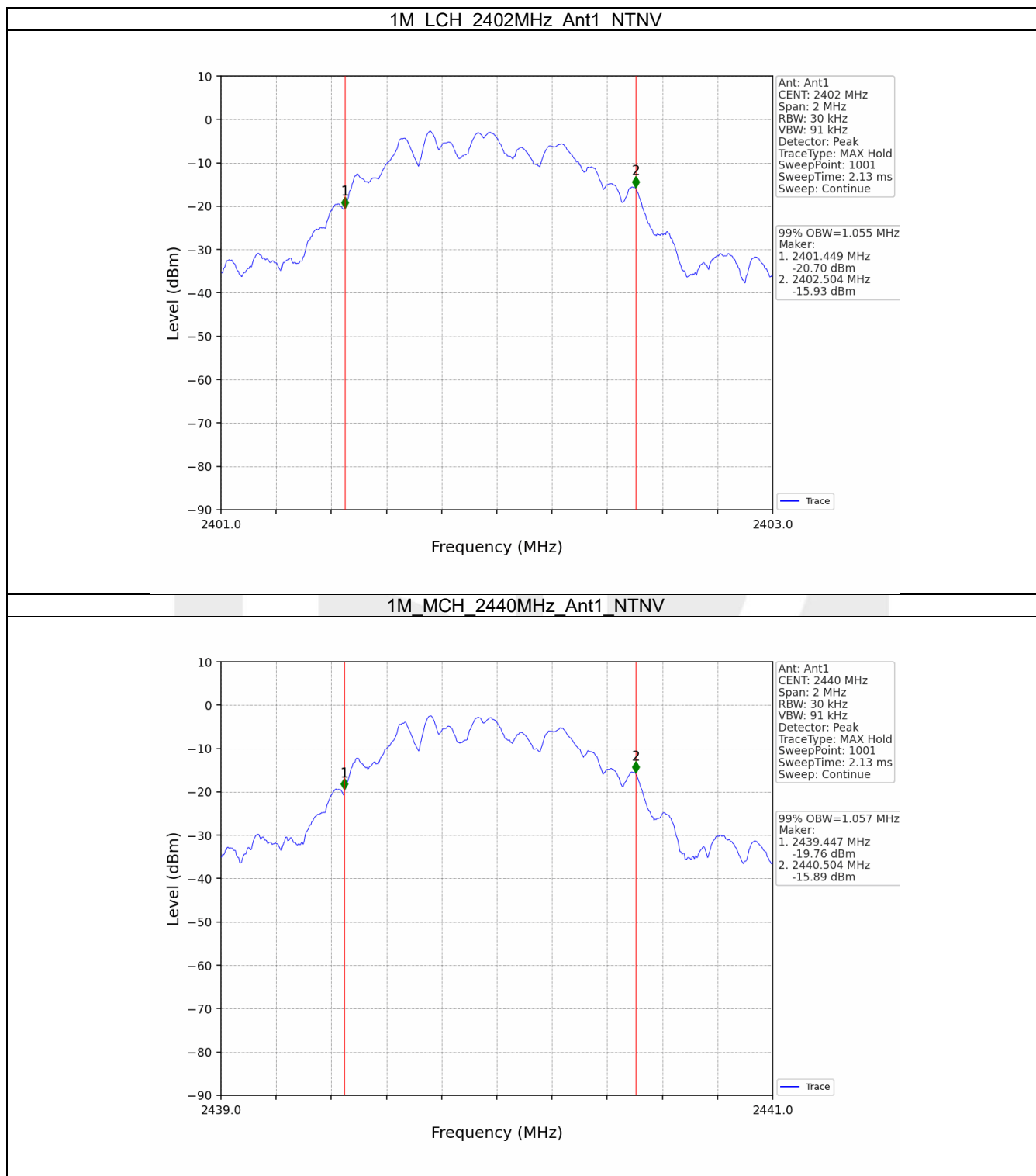
2. Bandwidth

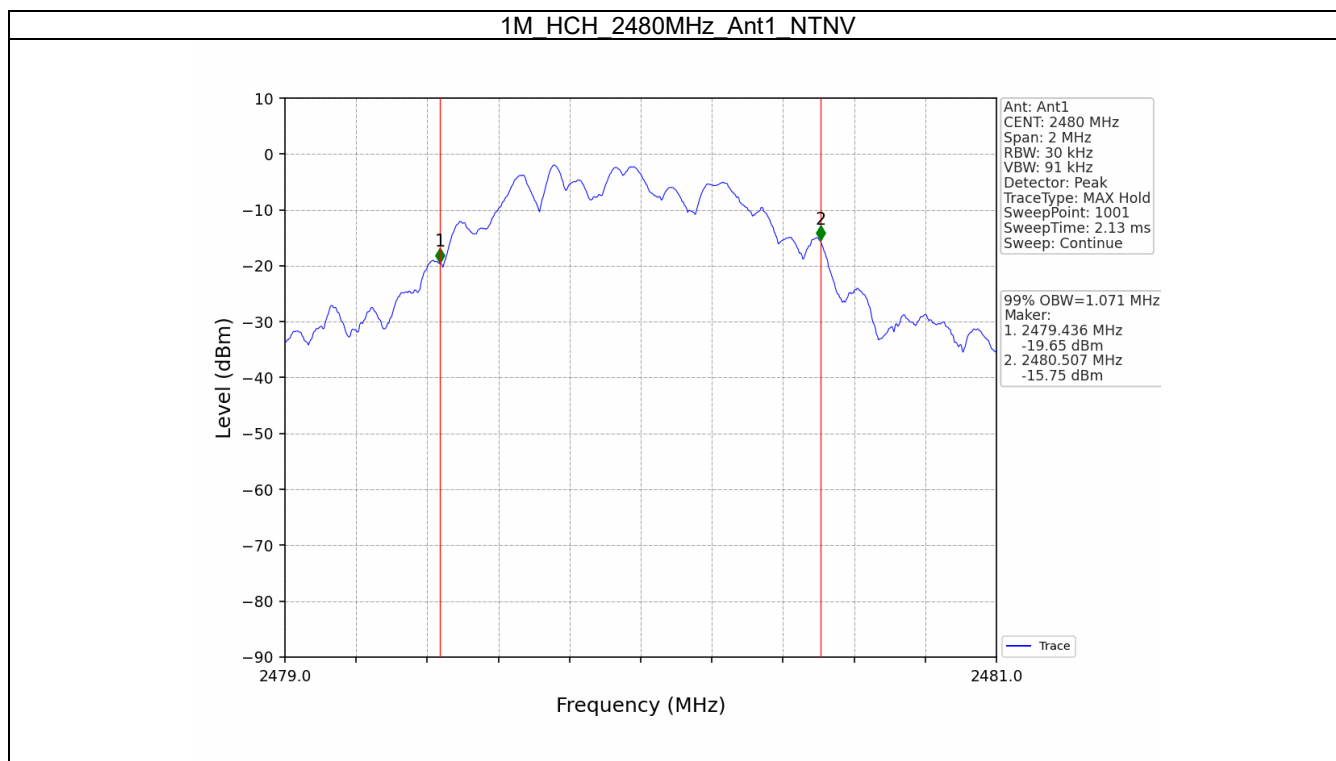
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.055	Pass
		2440	1	1.057	Pass
		2480	1	1.071	Pass

2.1.2 Test Graph





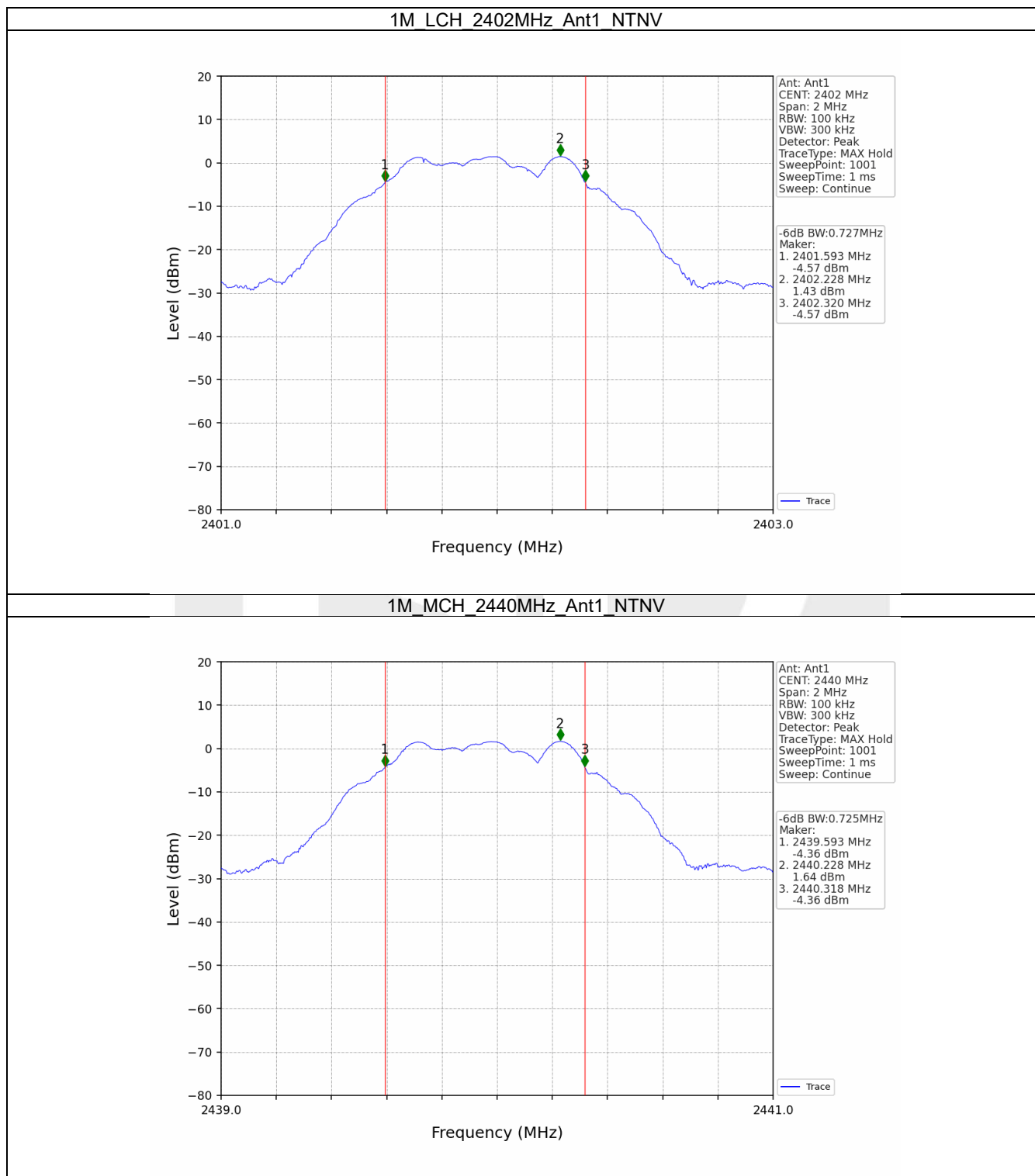
2.2 6dB BW

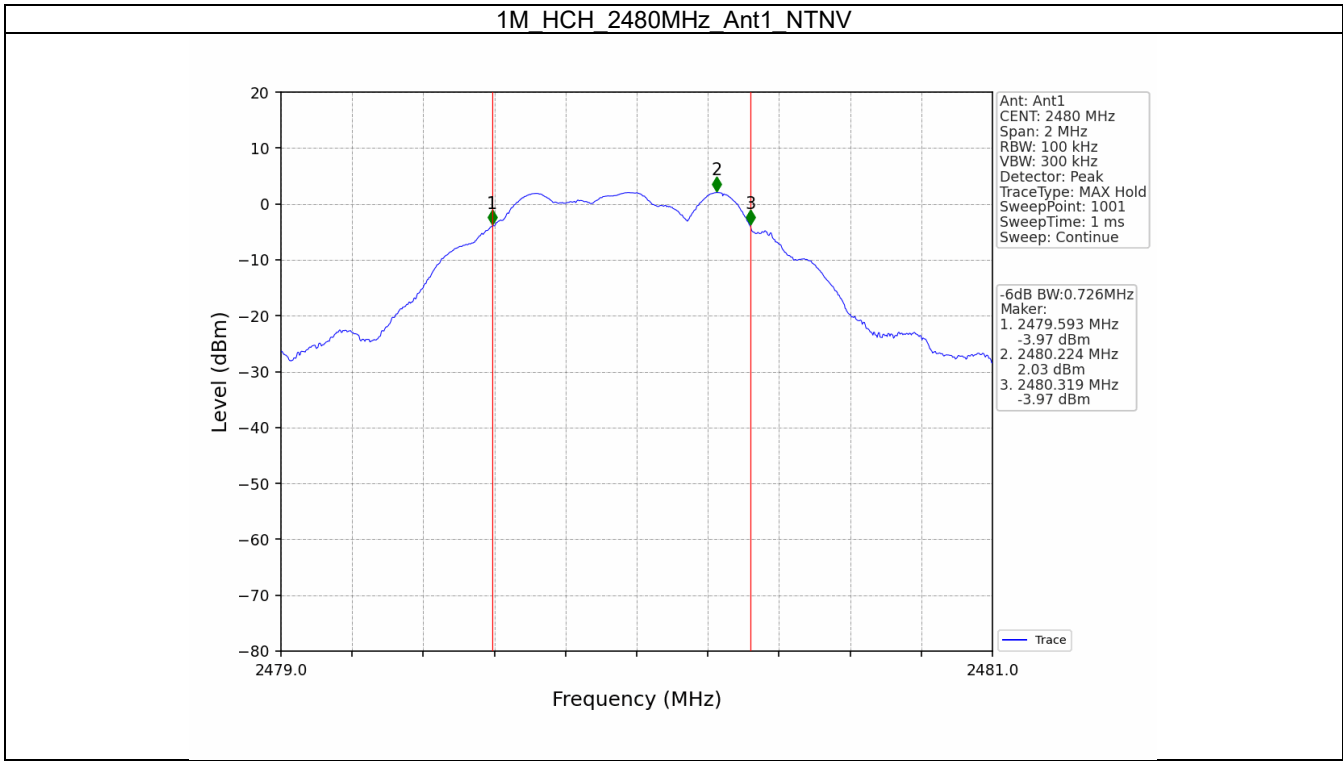
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.727	≥ 0.5	Pass
		2440	1	0.725	≥ 0.5	Pass
		2480	1	0.726	≥ 0.5	Pass



2.2.2 Test Graph





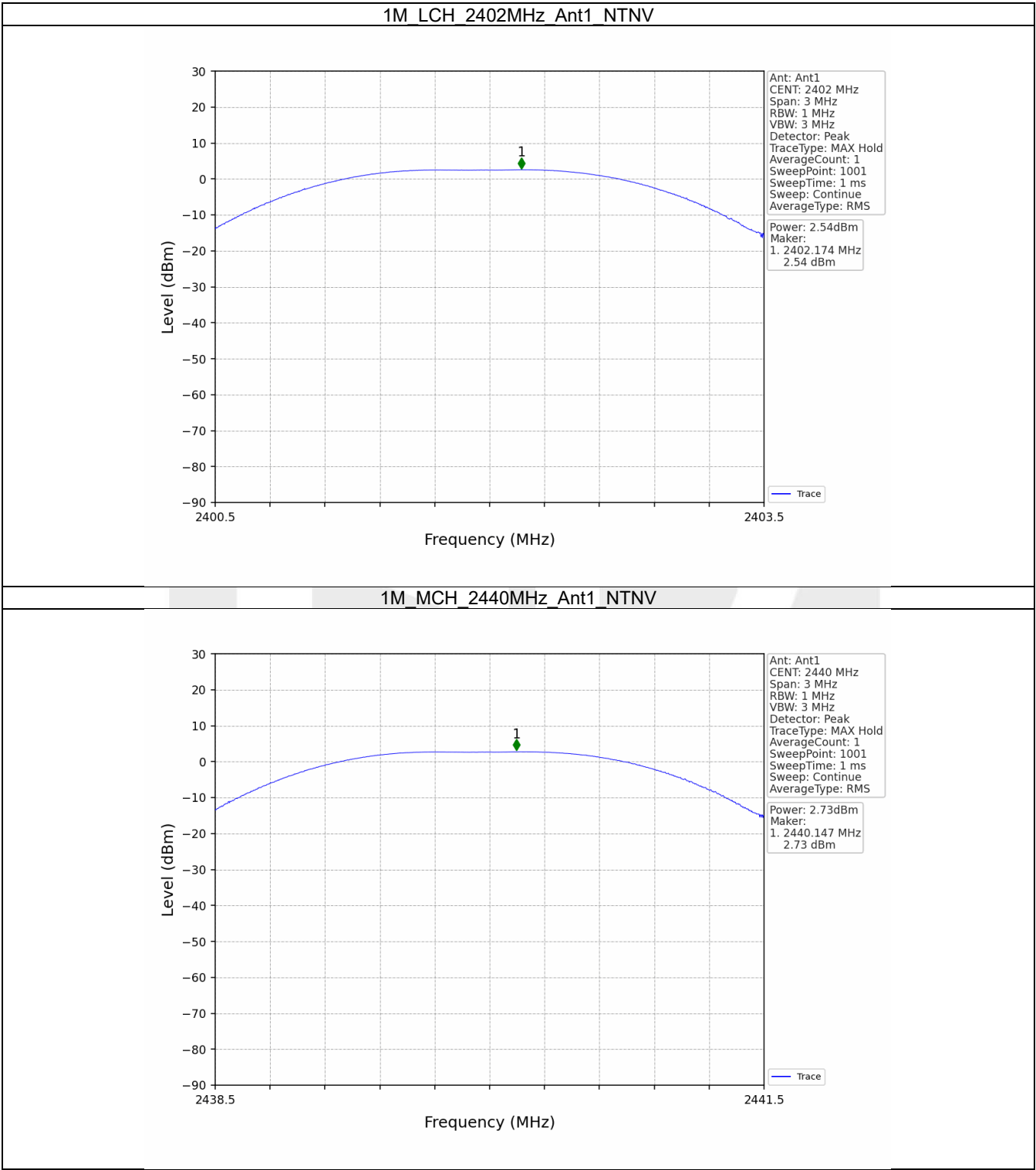
3. Maximum Conducted Output Power

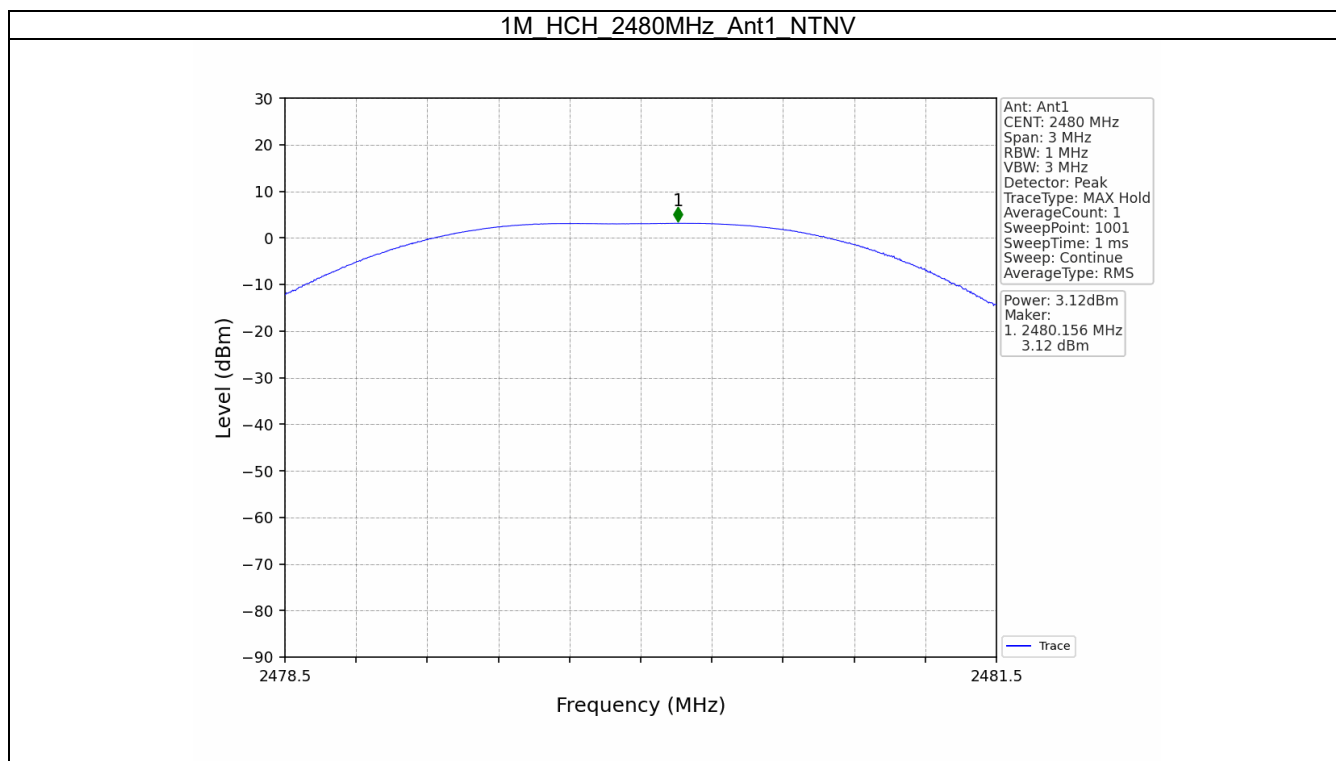
3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	2.54	≤ 30	Pass
		2440	2.73	≤ 30	Pass
		2480	3.12	≤ 30	Pass

3.1.2 Test Graph





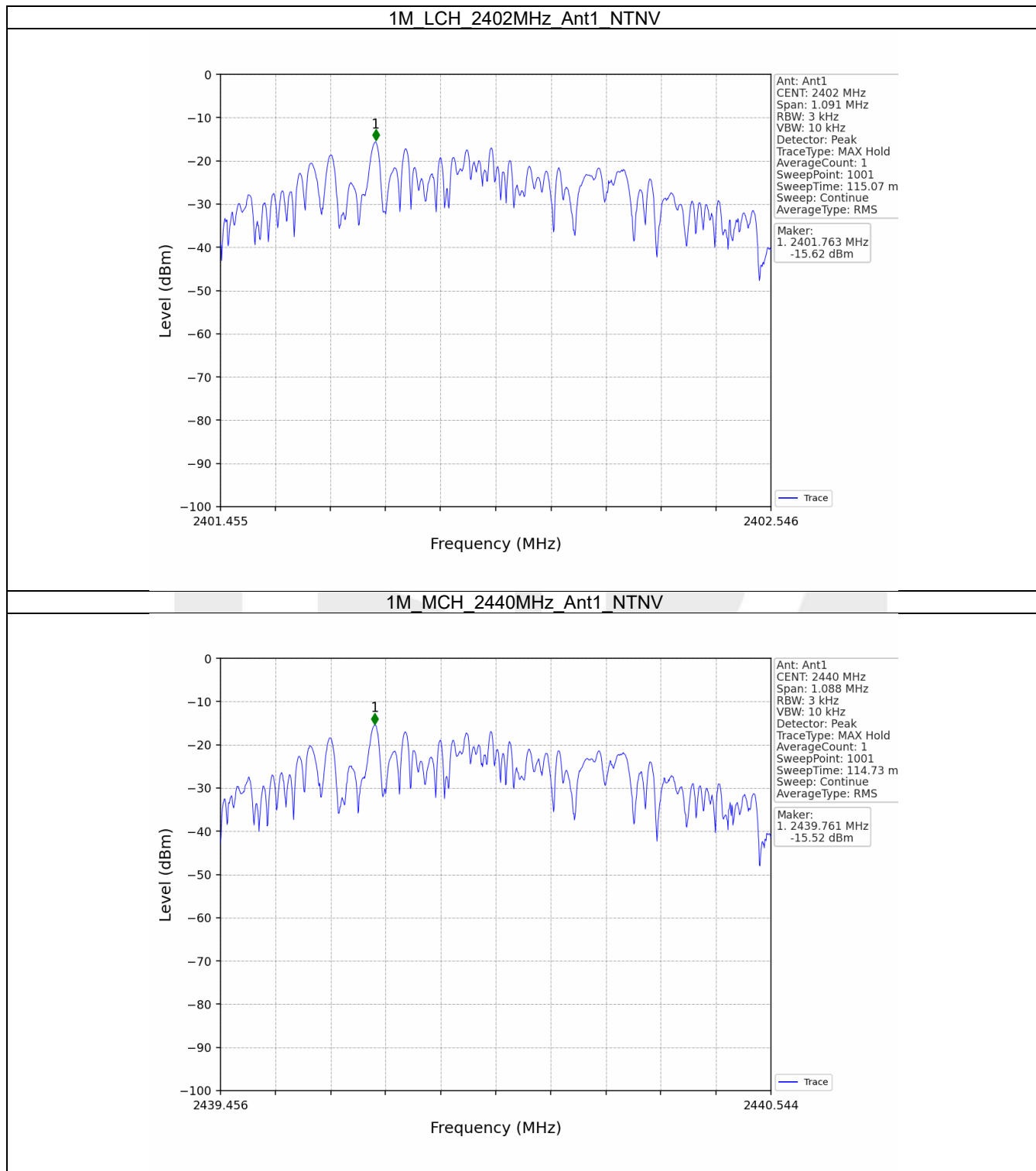
4. Maximum Power Spectral Density

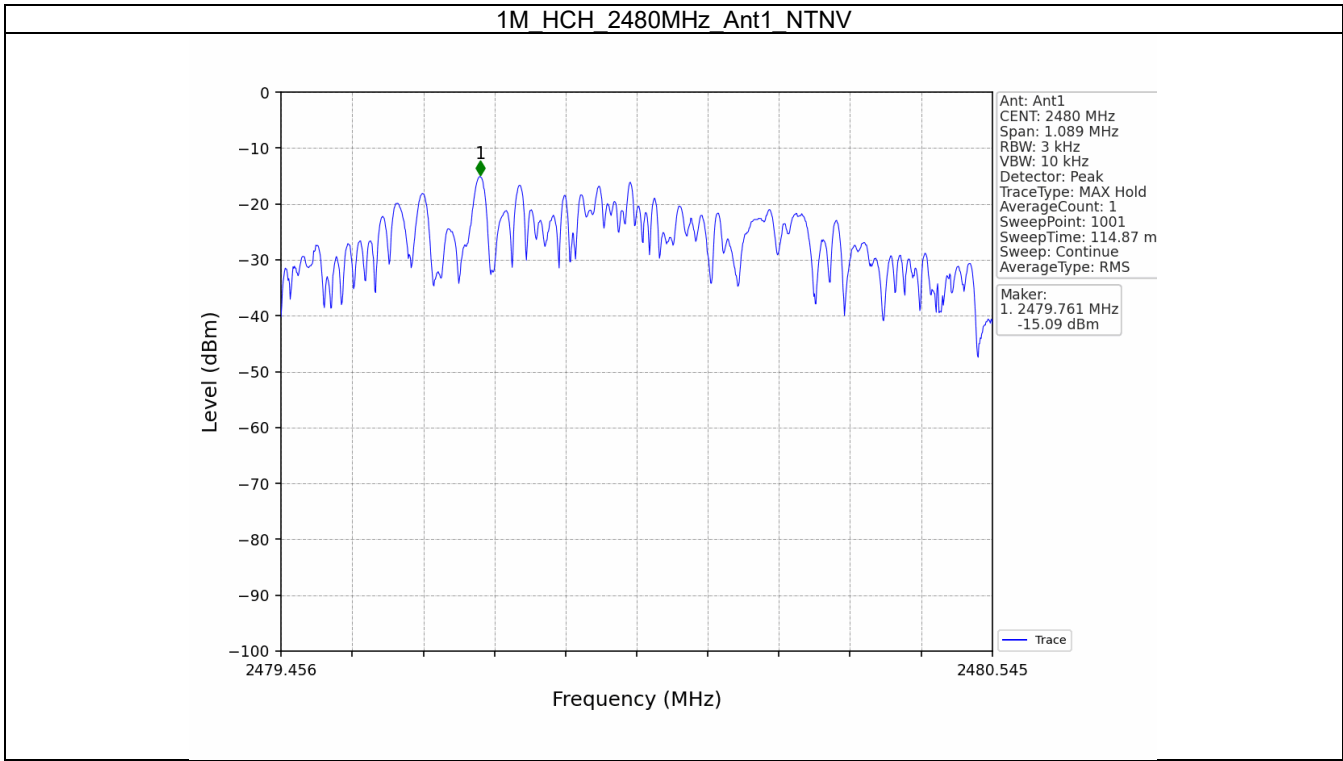
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-15.62	<=8	Pass
		2440	-15.52	<=8	Pass
		2480	-15.09	<=8	Pass

4.1.2 Test Graph





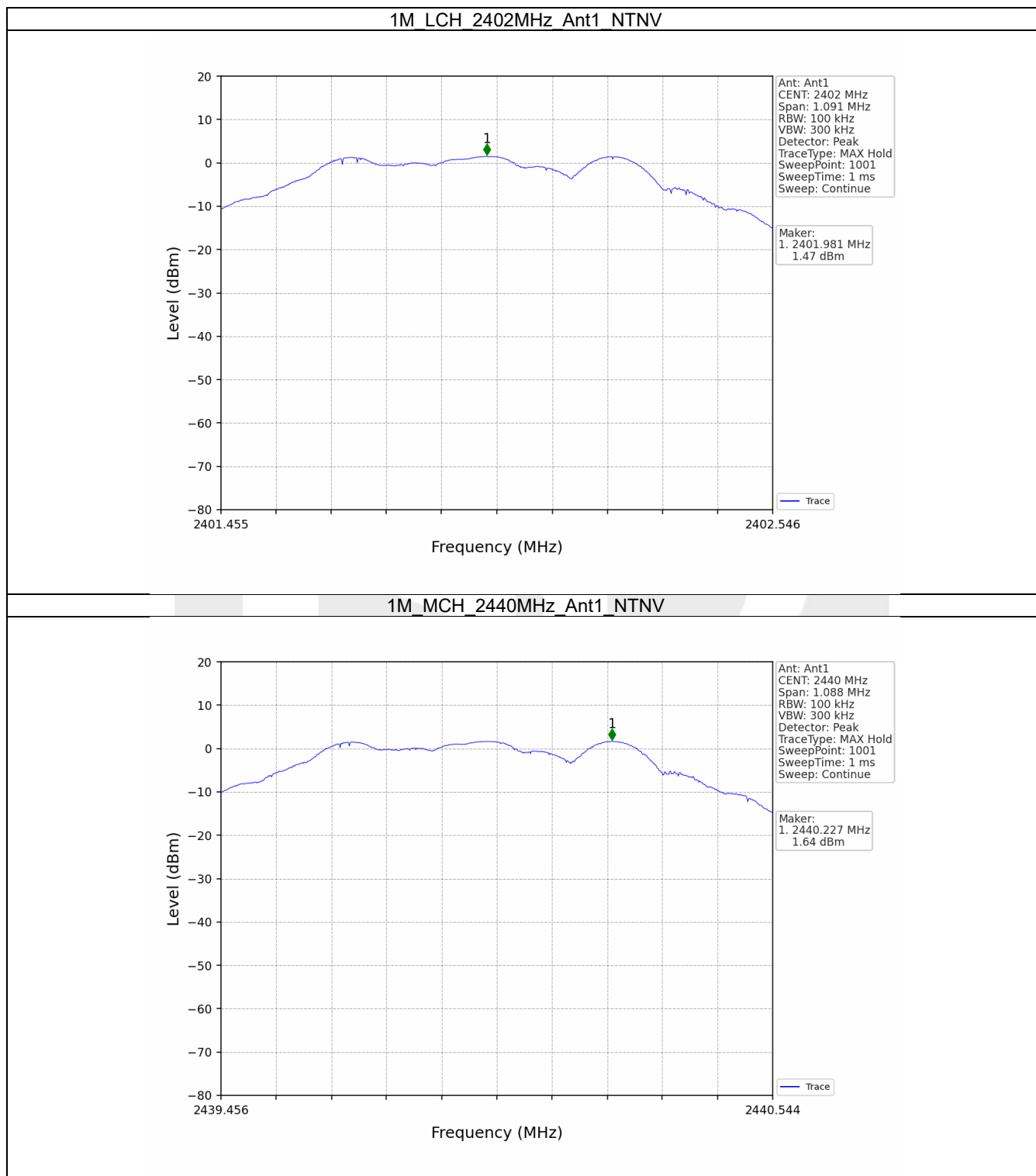
5. Unwanted Emissions In Non-restricted Frequency Bands

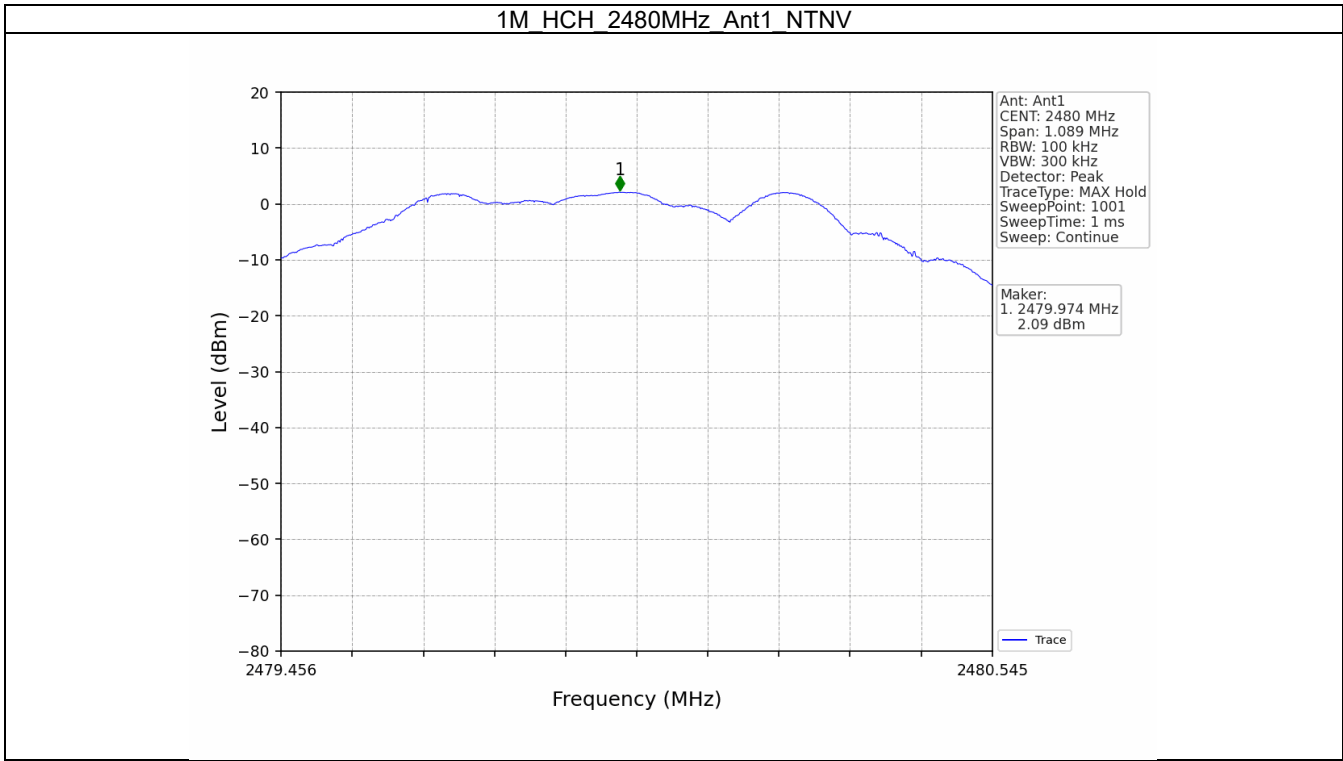
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.47
		2440	1	1.64
		2480	1	2.09
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



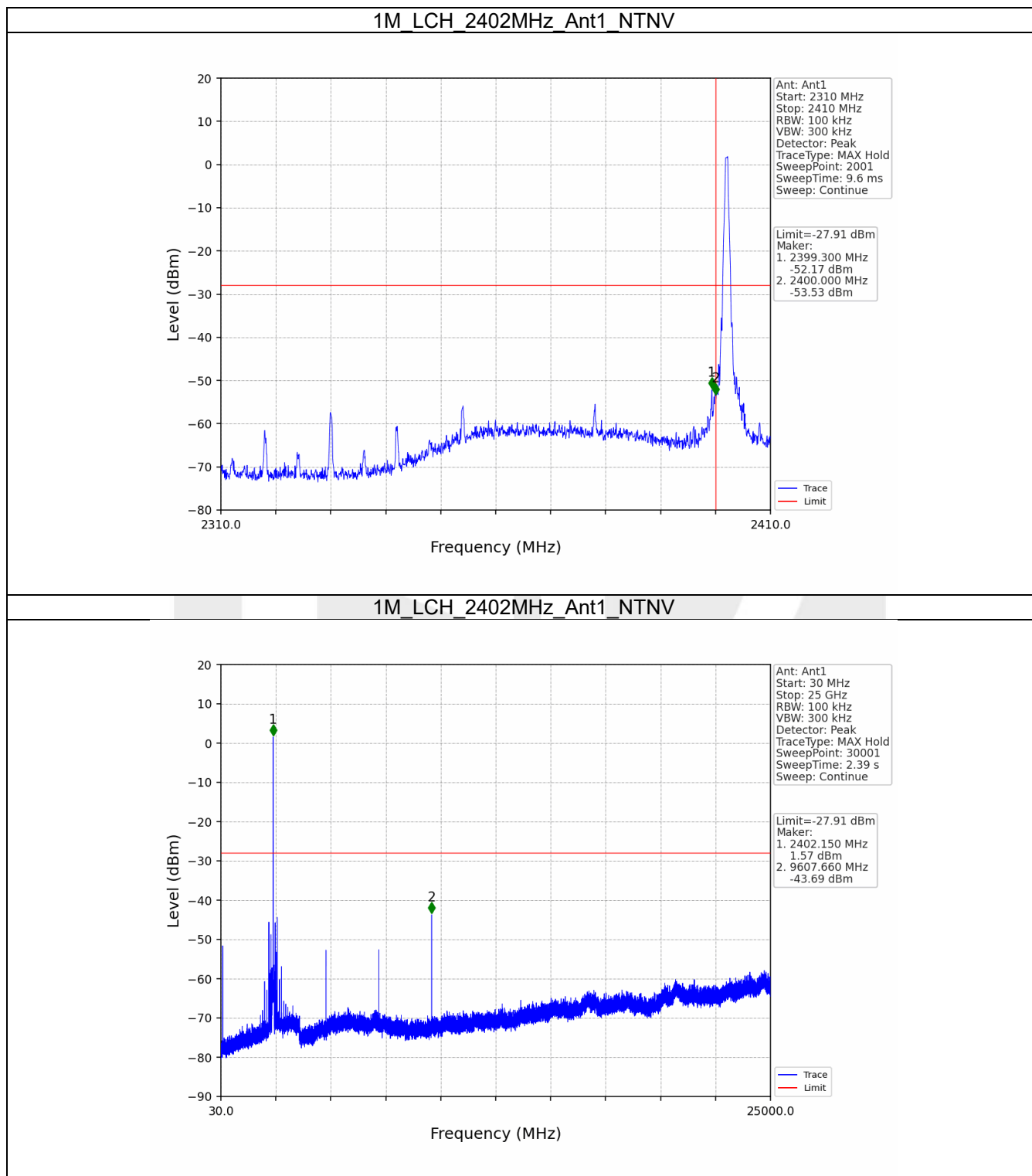


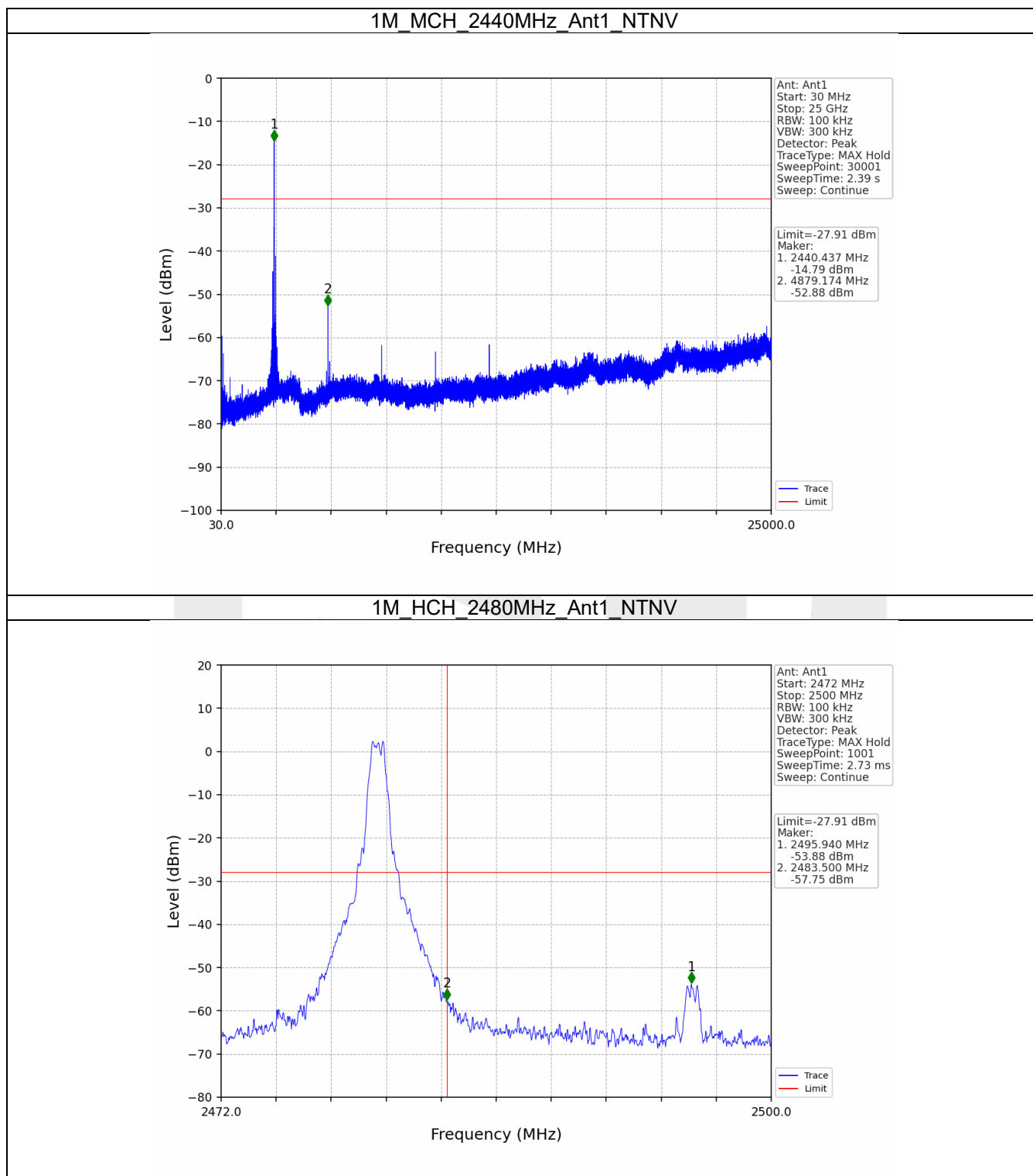
5.2 CSE

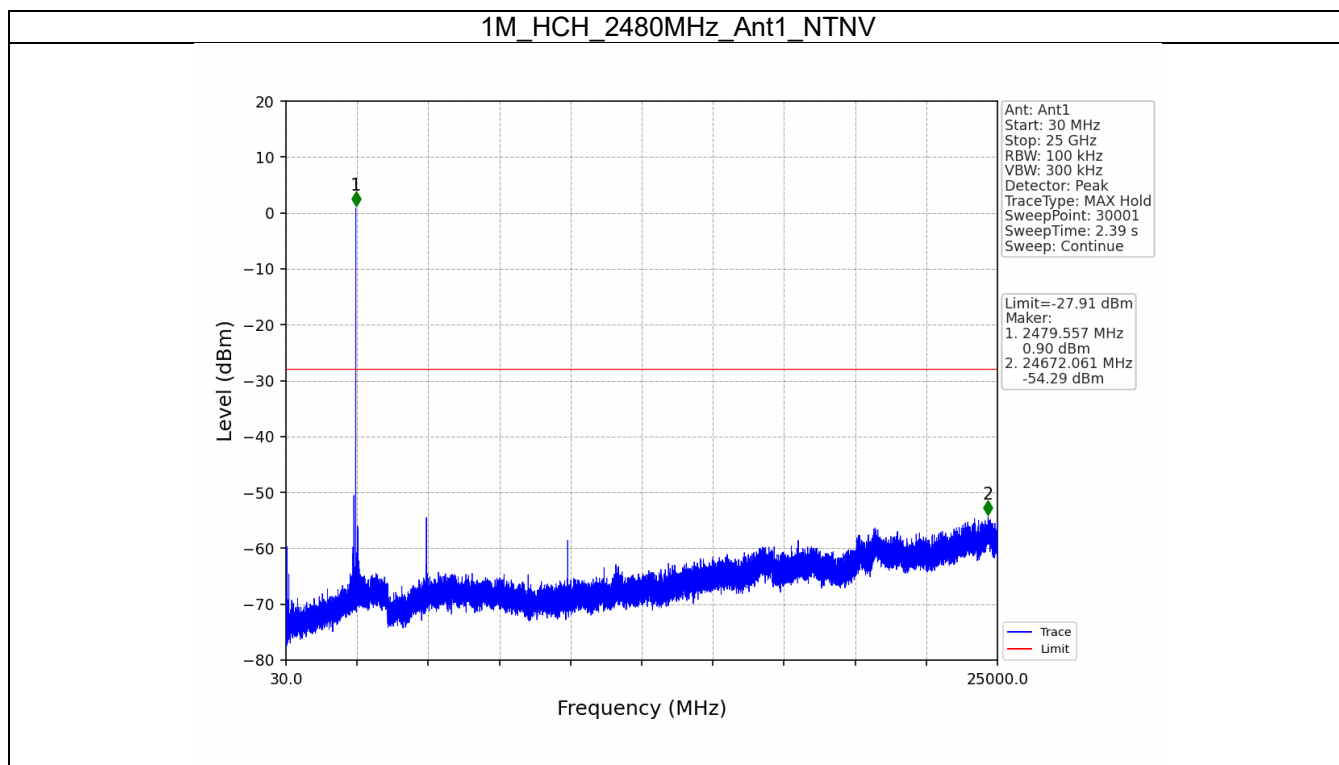
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	2.09	-27.91	Pass
		2440	1	2.09	-27.91	Pass
		2480	1	2.09	-27.91	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







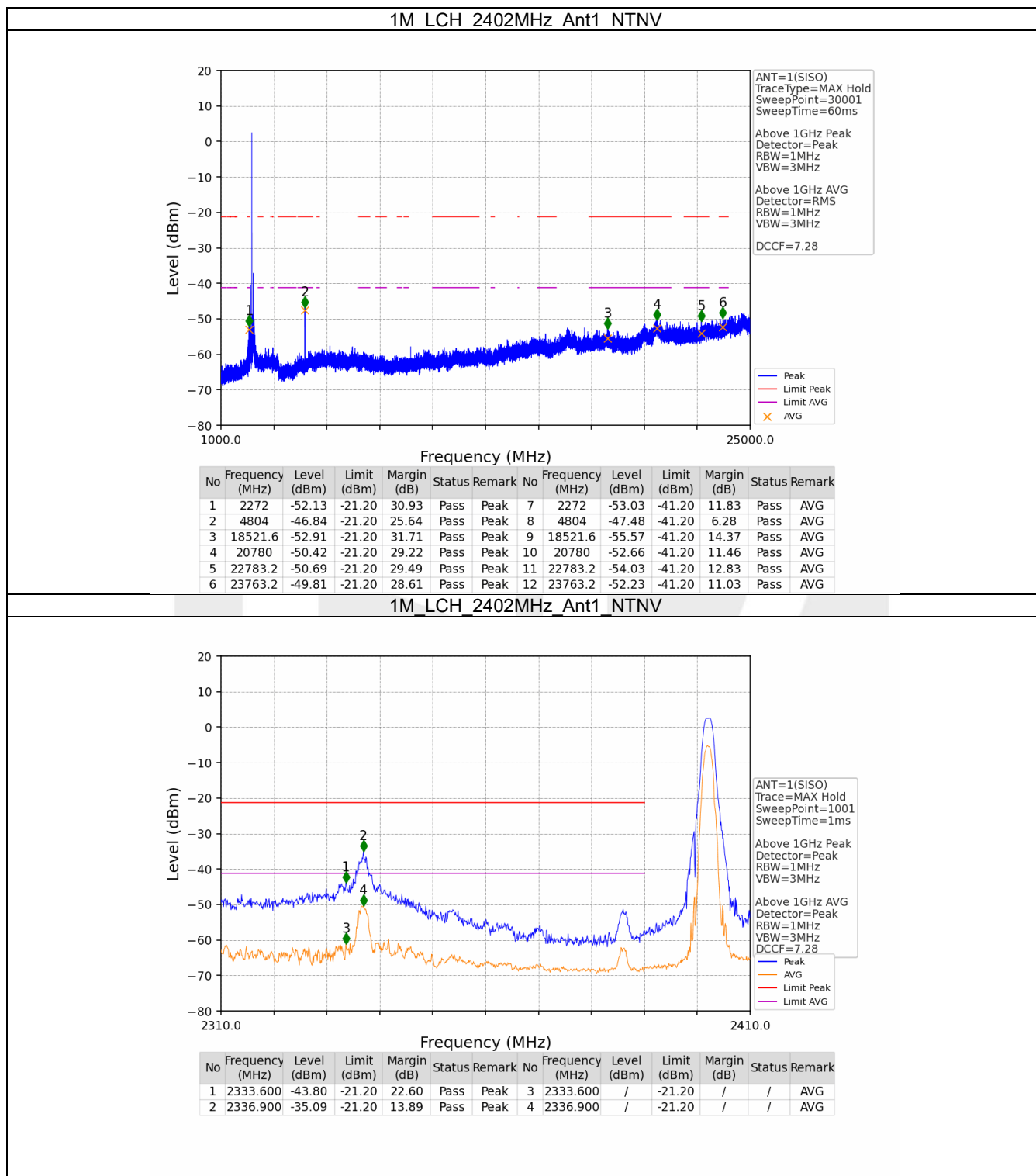
6. Unwanted Emissions In Restricted Frequency Bands

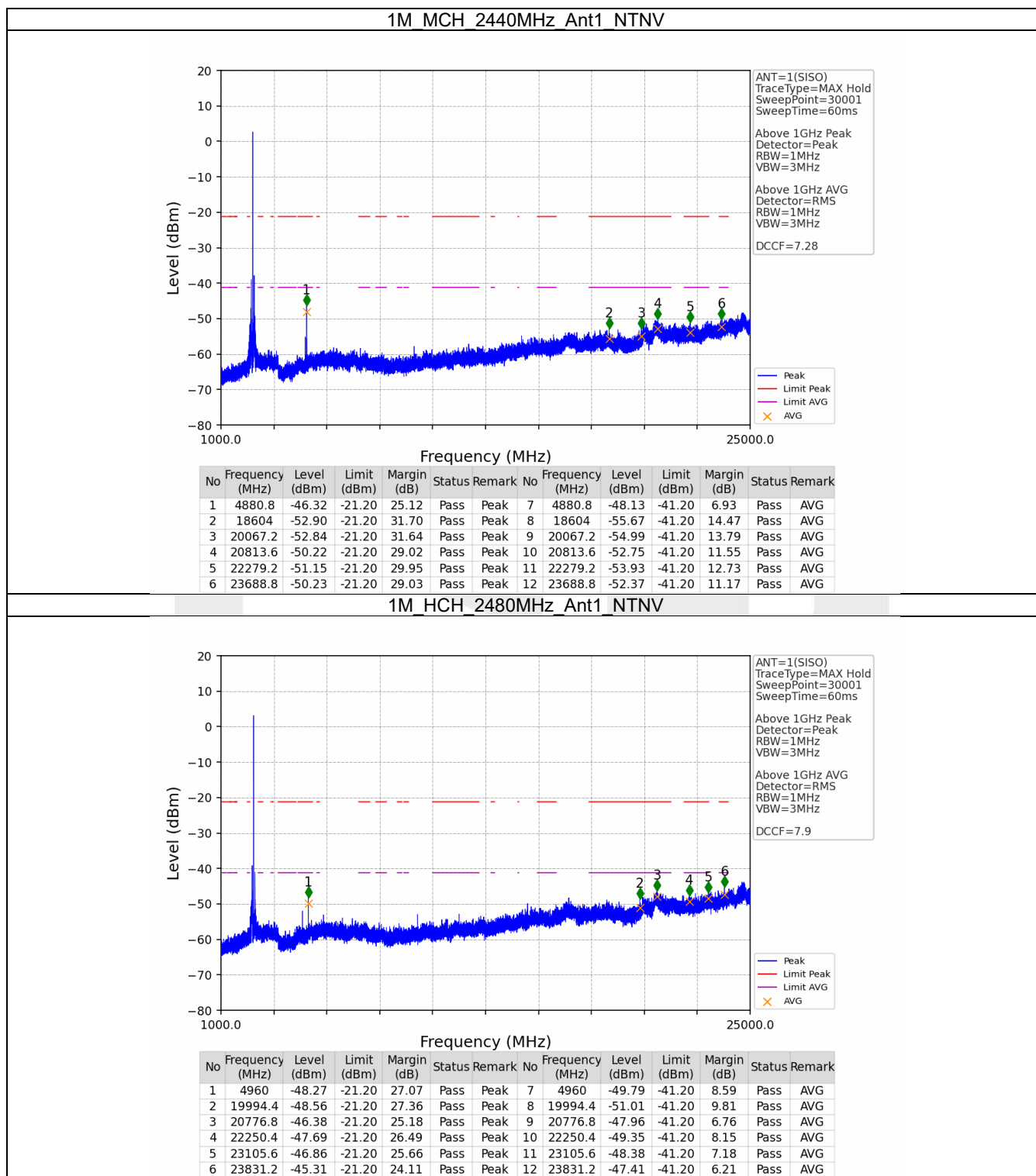
6.1 RSE

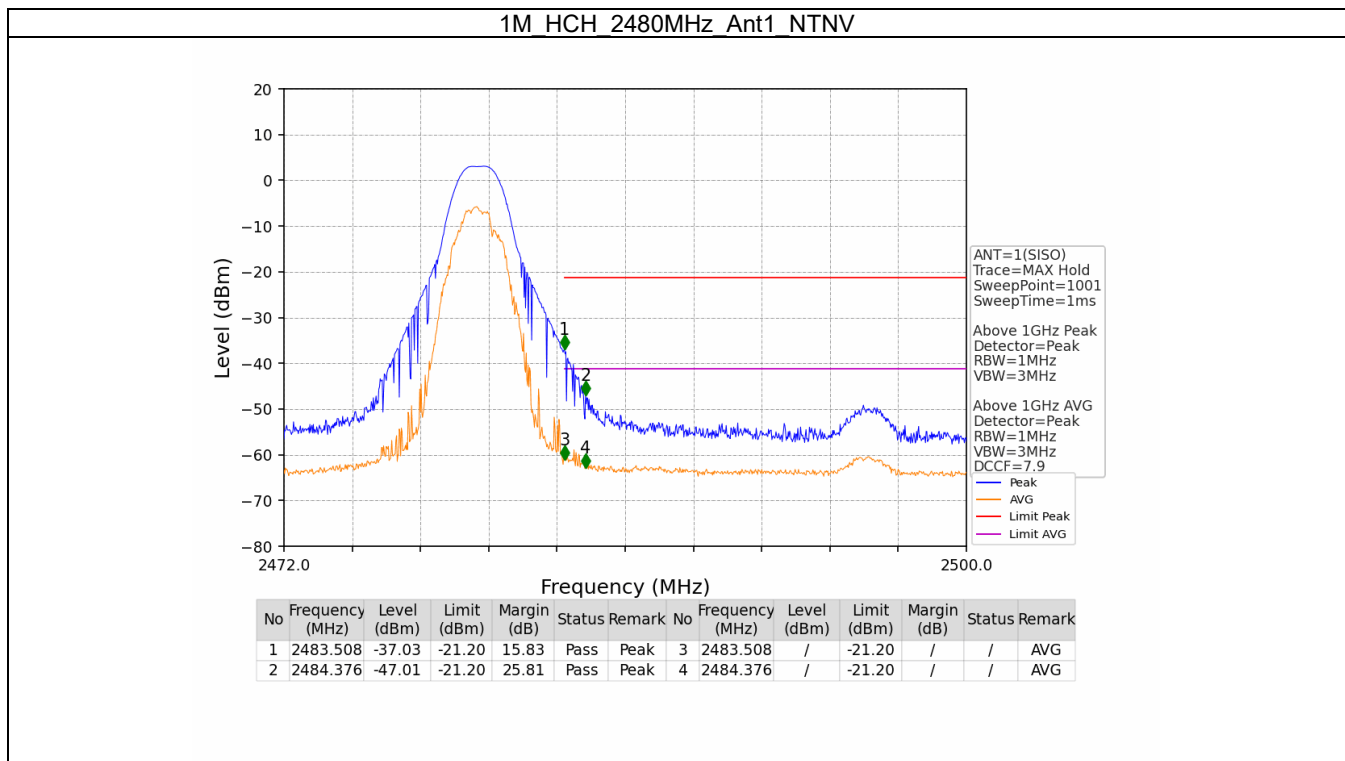
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass

6.1.2 Test Graph







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