



Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

Annex for BLE

Test Report No.: CTL2406052091-WF

TABLE OF CONTENTS

1. Bandwidth	2
2. Maximum Conducted Output Power	7
3. Maximum Power Spectral Density	10
4. Unwanted Emissions In Non-restricted Frequency Bands	13

FCC ID: 2A4CE-A10

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.055	/	Pass
		2440	1	1.046	/	Pass
		2480	1	1.043	/	Pass

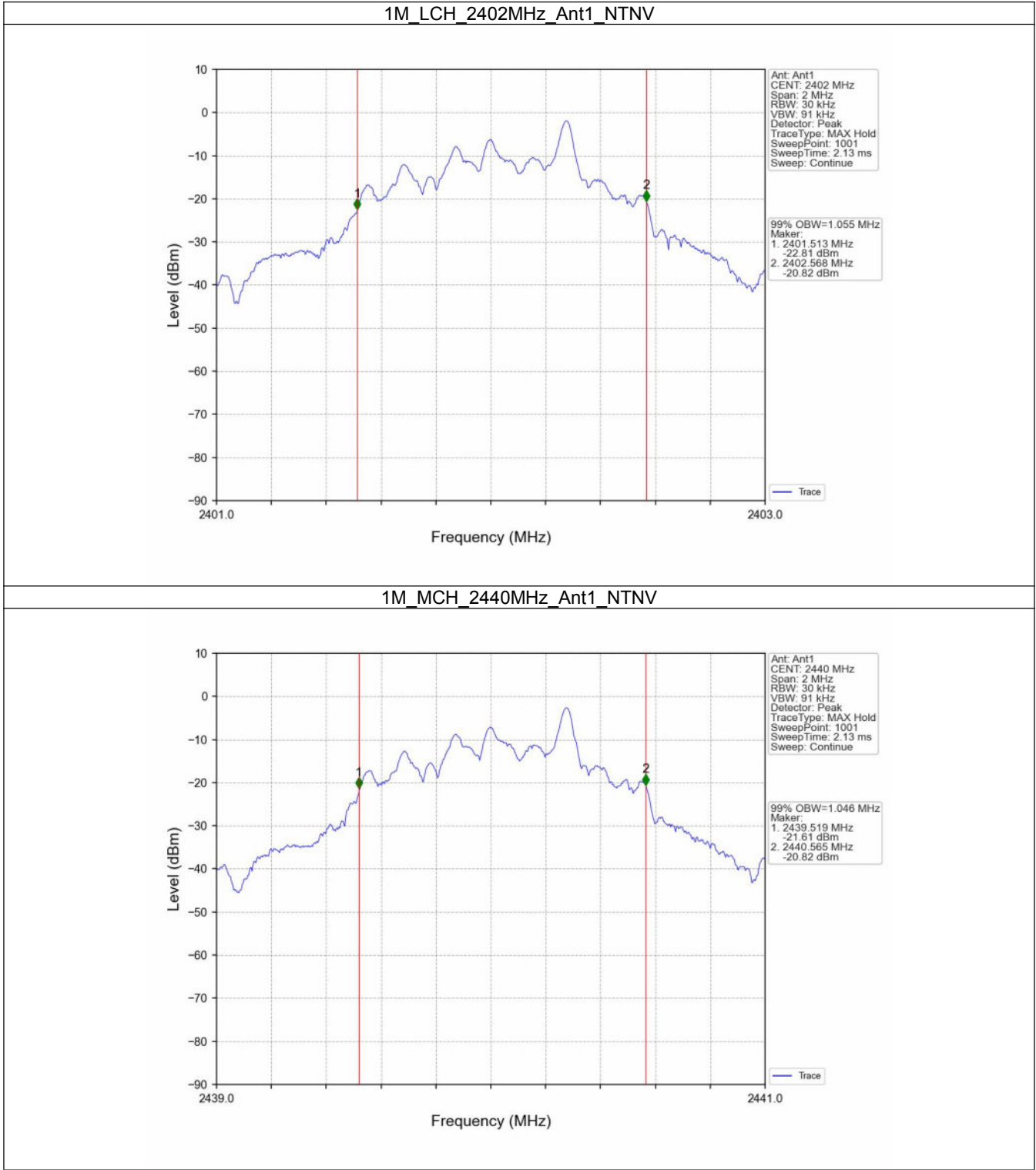
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.660	≥ 0.5	Pass
		2440	1	0.661	≥ 0.5	Pass
		2480	1	0.689	≥ 0.5	Pass

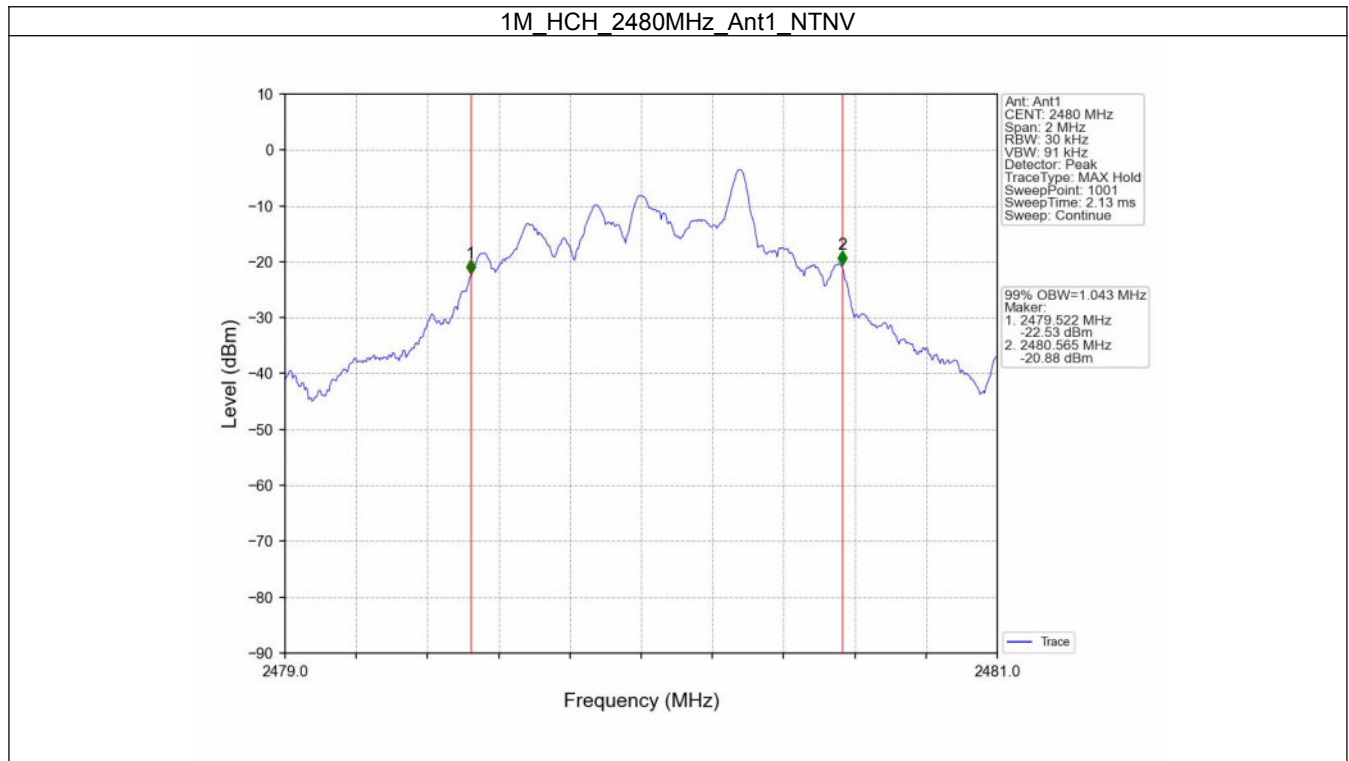
FCC ID: 2A4CE-A10

1.2 Test Graph

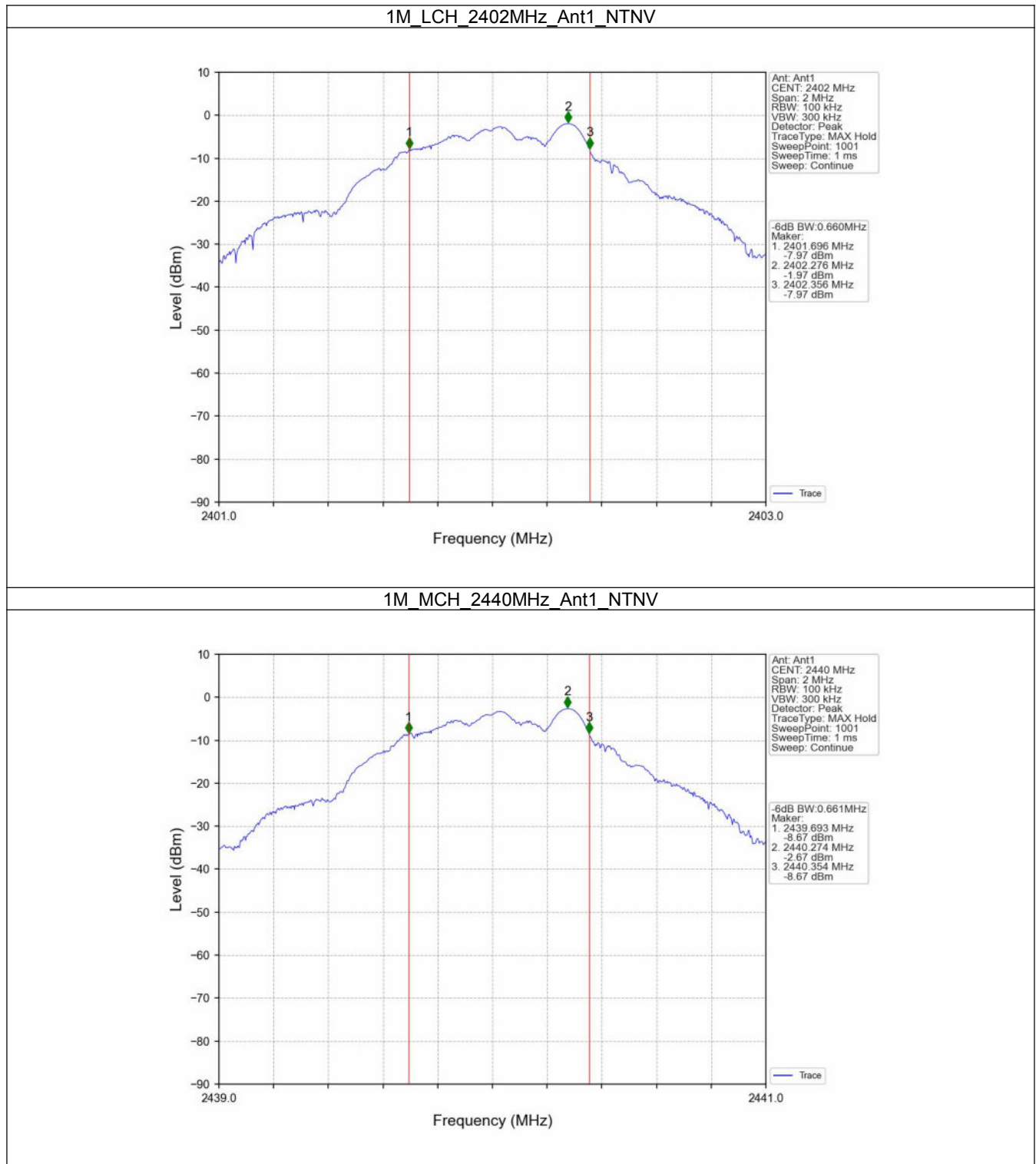
1.2.1 OBW



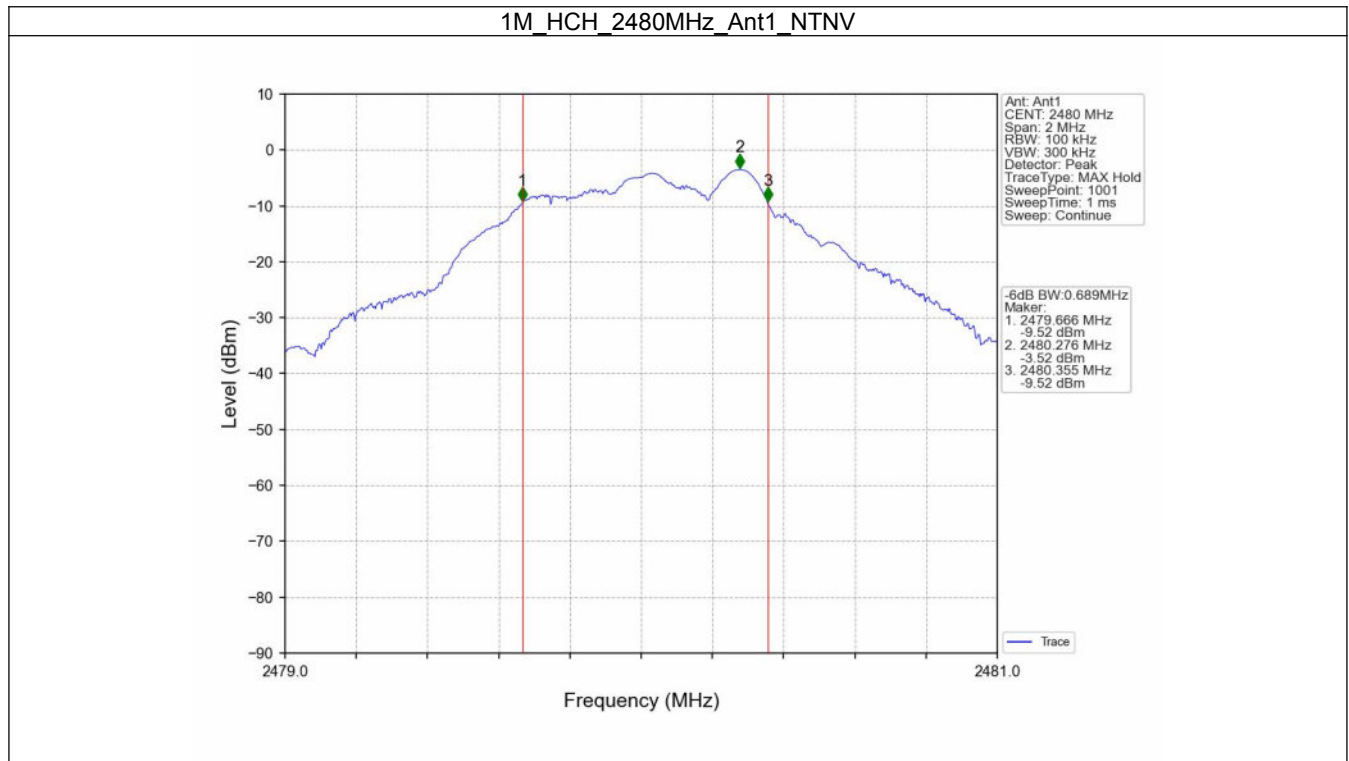
FCC ID: 2A4CE-A10



FCC ID: 2A4CE-A10

1.2.2 6dB BW

FCC ID: 2A4CE-A10



FCC ID: 2A4CE-A10

2. Maximum Conducted Output Power

2.1 Test Result

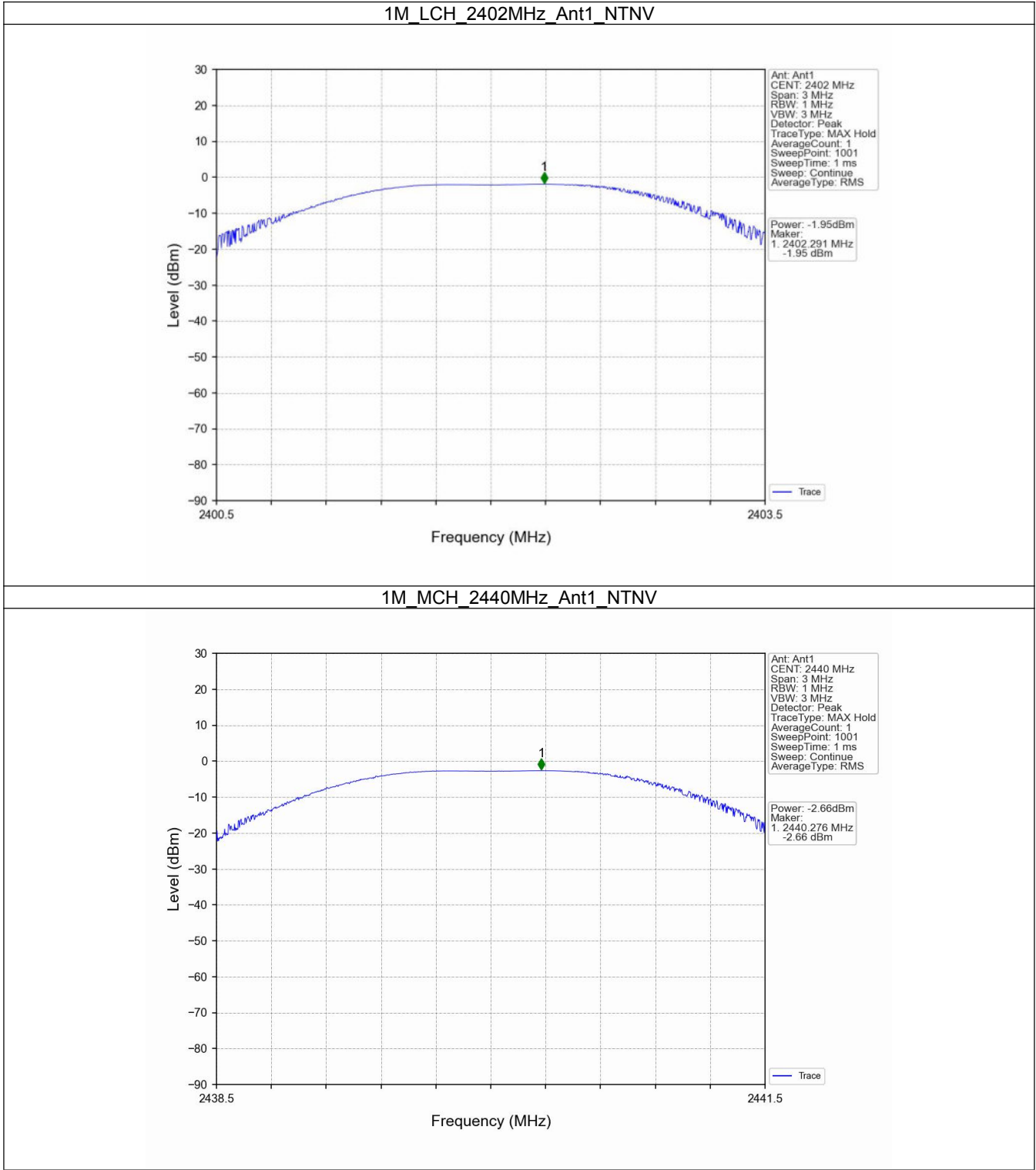
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.95	<=30	Pass
		2440	-2.66	<=30	Pass
		2480	-3.48	<=30	Pass
Note1: Antenna Gain: Ant1: 2.6dBi;					

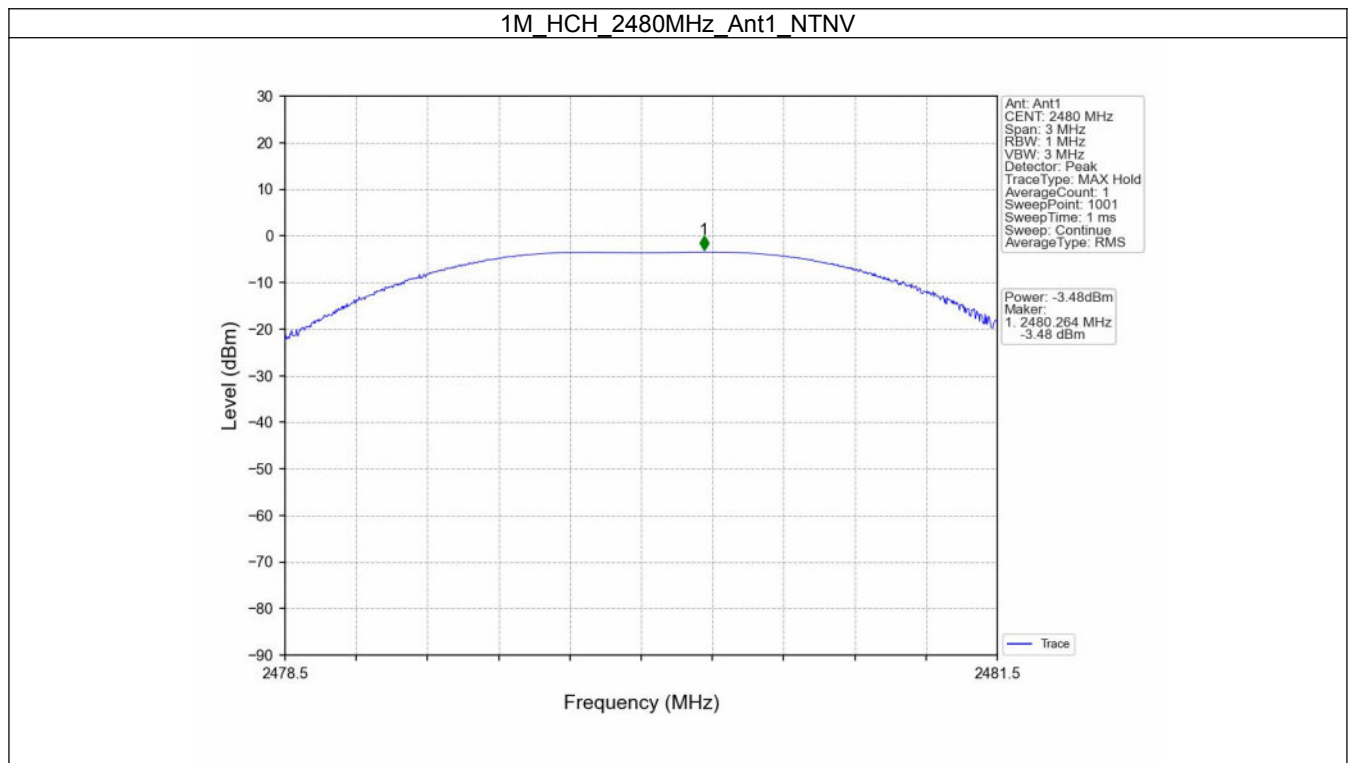
FCC ID: 2A4CE-A10

2.2 Test Graph

2.2.1 Power



FCC ID: 2A4CE-A10



FCC ID: 2A4CE-A10

3. Maximum Power Spectral Density

3.1 Test Result

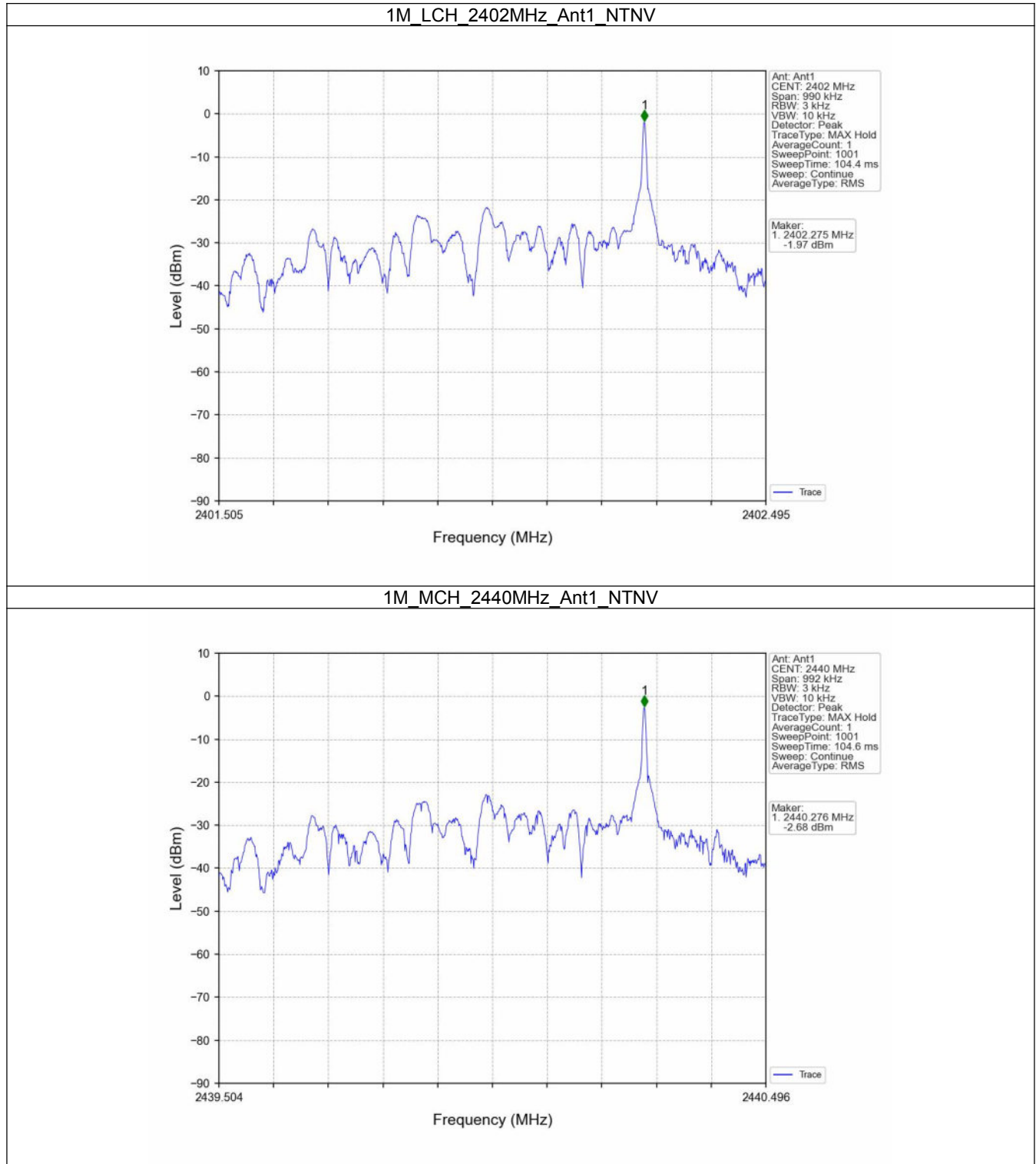
3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.97	<=8	Pass
		2440	-2.68	<=8	Pass
		2480	-3.56	<=8	Pass
Note1: Antenna Gain: Ant1: 2.6dBi;					

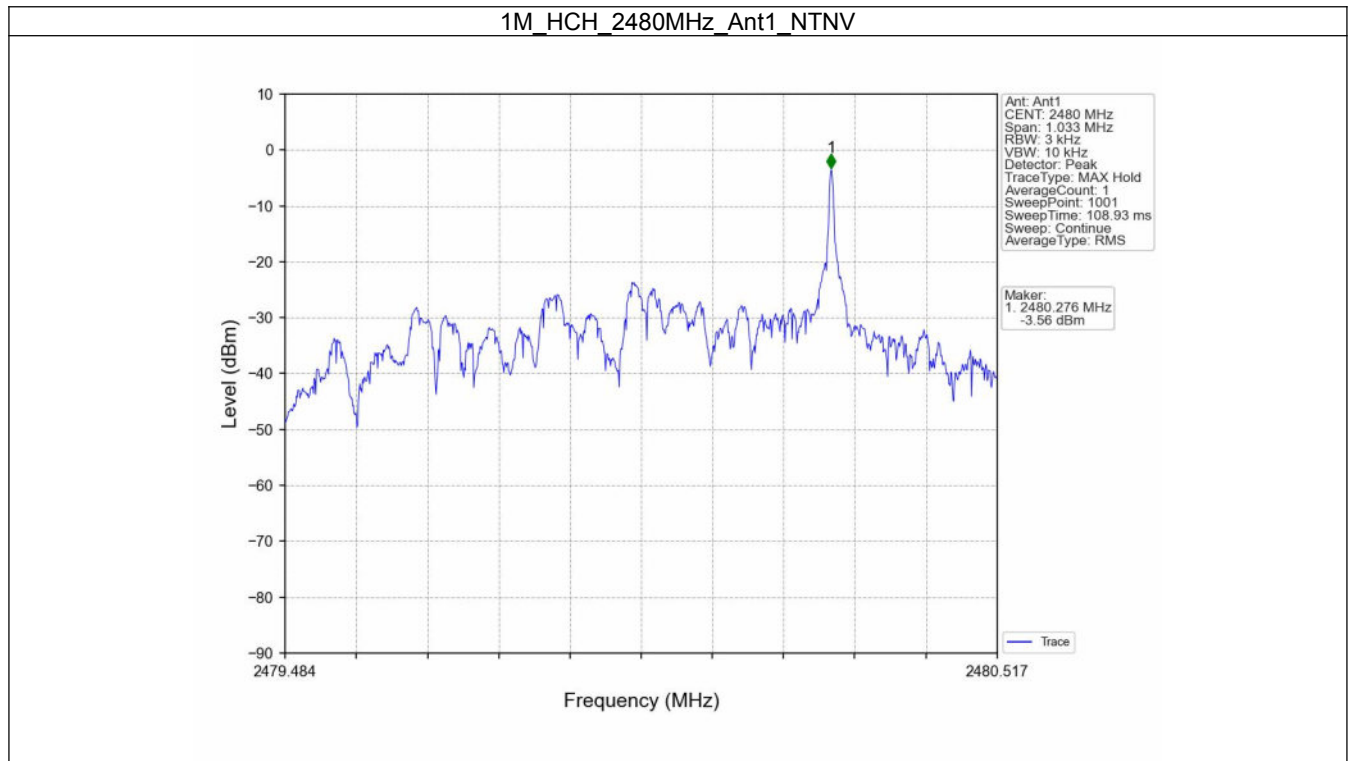
FCC ID: 2A4CE-A10

3.2 Test Graph

3.2.1 PSD



FCC ID: 2A4CE-A10



FCC ID: 2A4CE-A10

4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Test Result

4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.98
		2440	1	-2.69
		2480	1	-3.53
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.				

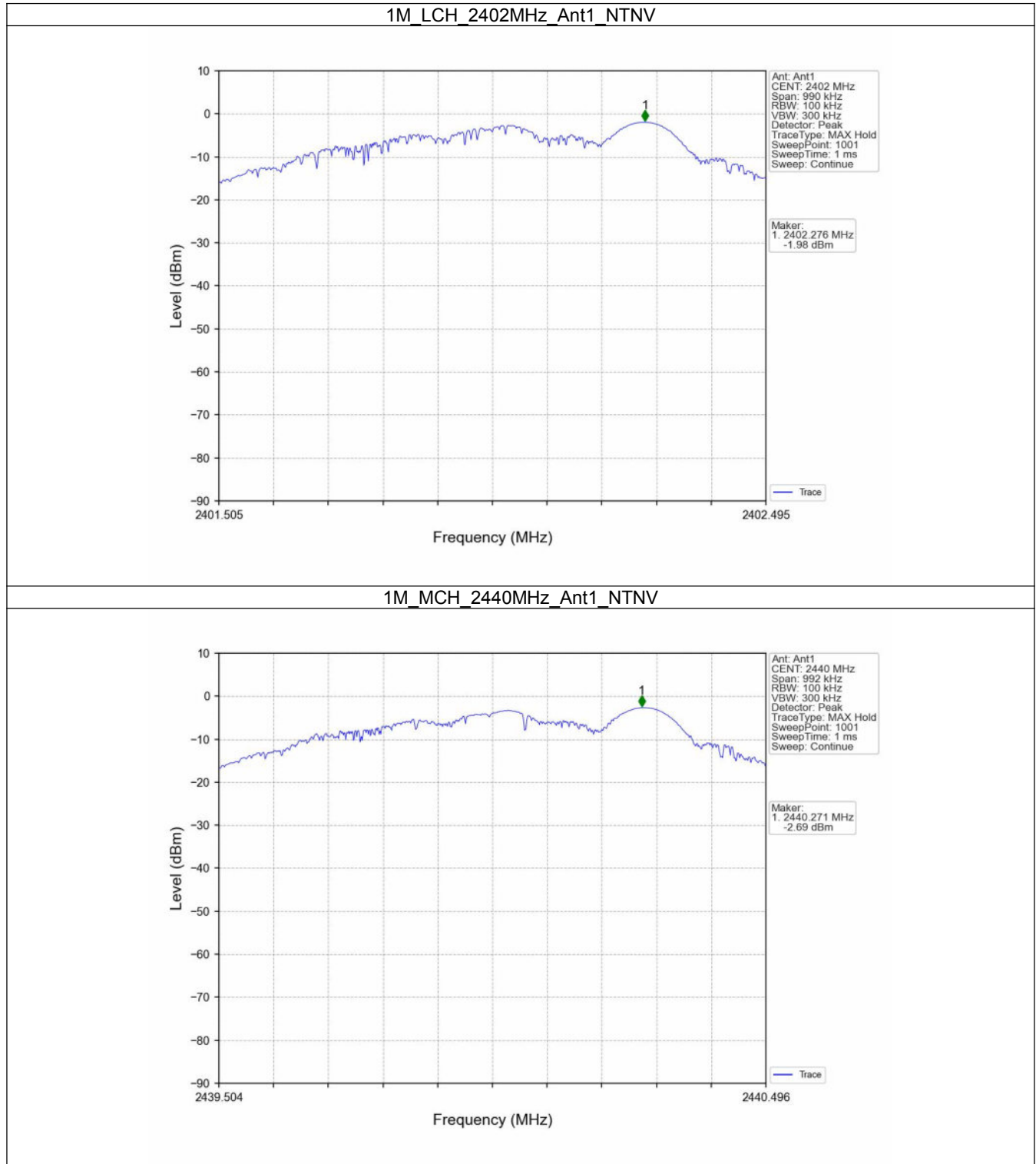
4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.98	-21.98	Pass
		2440	1	-1.98	-21.98	Pass
		2480	1	-1.98	-21.98	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.						

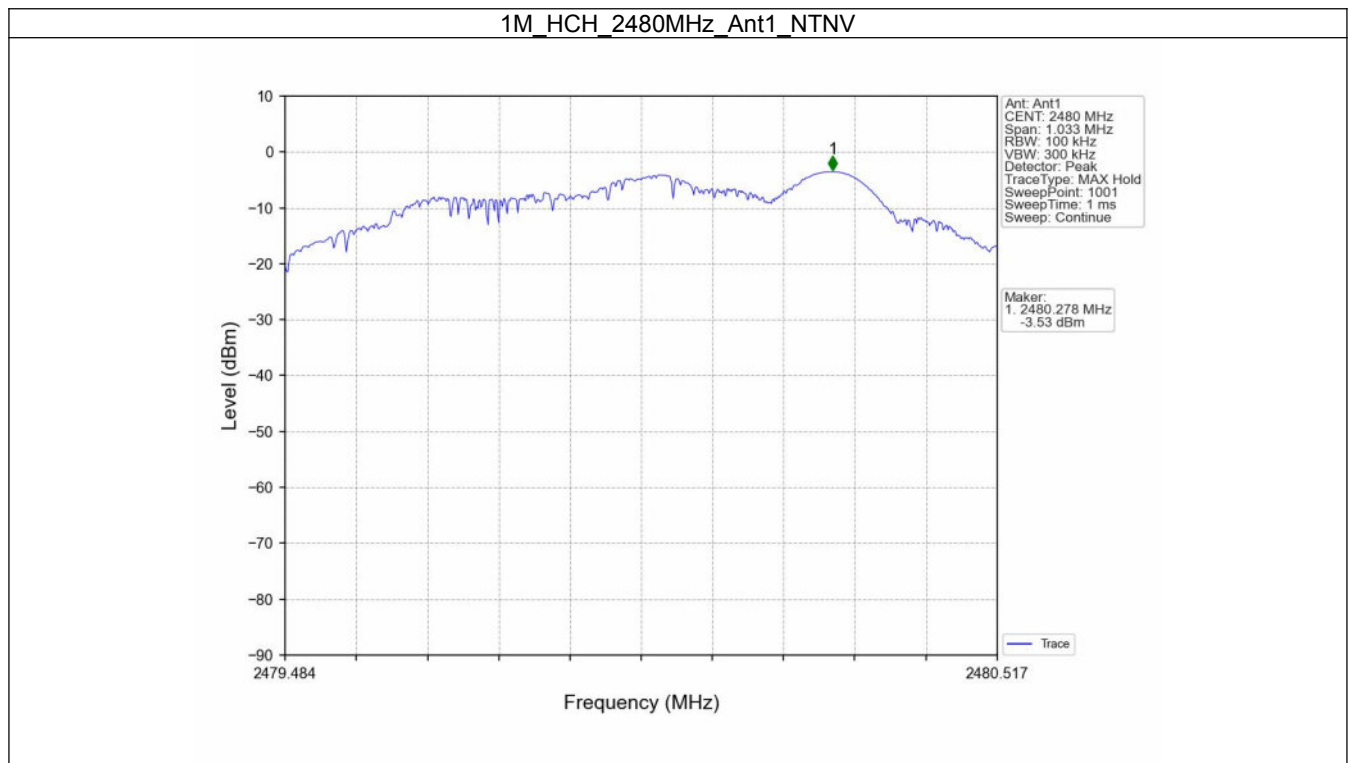
FCC ID: 2A4CE-A10

4.2 Test Graph

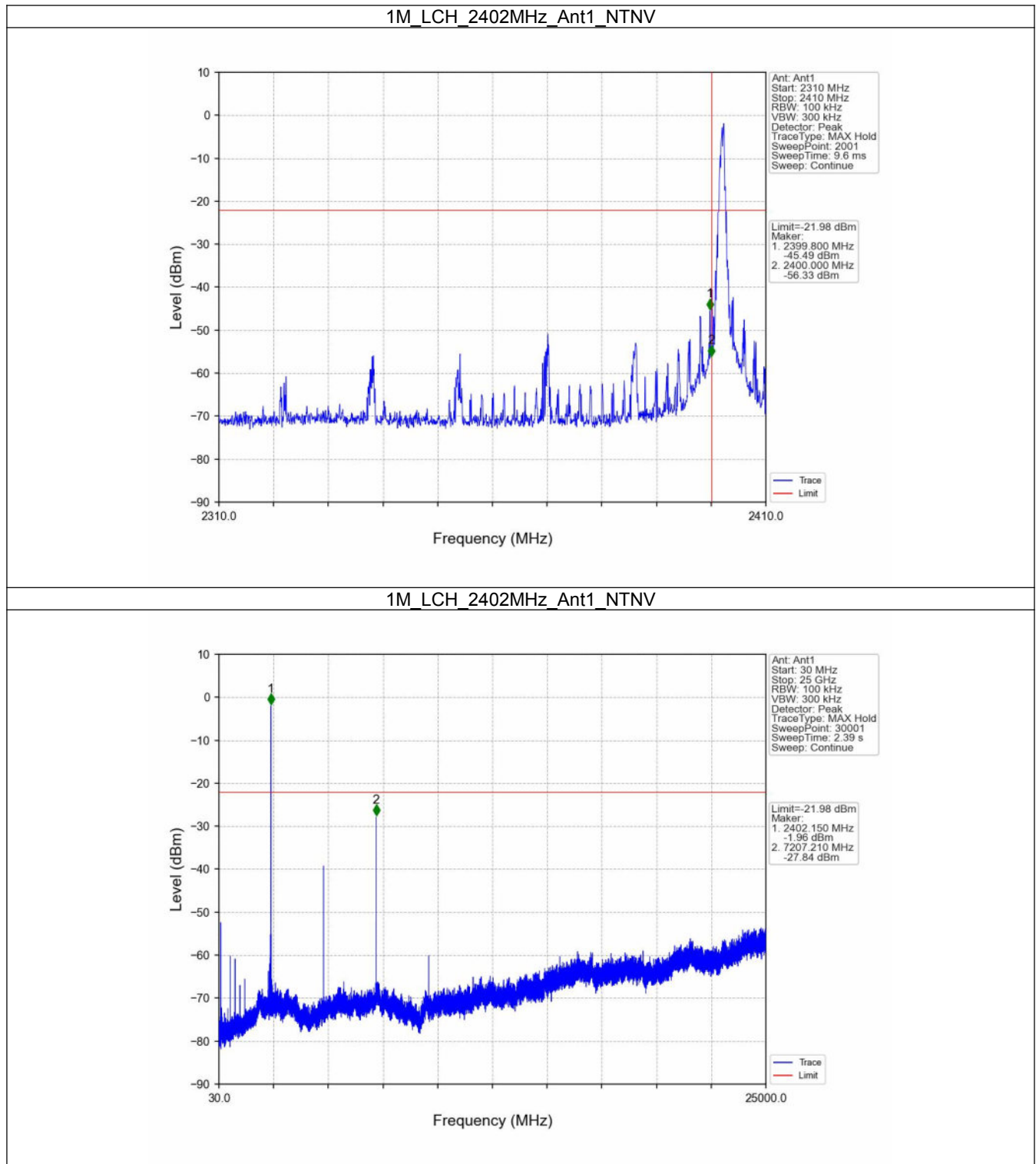
4.2.1 Ref



FCC ID: 2A4CE-A10

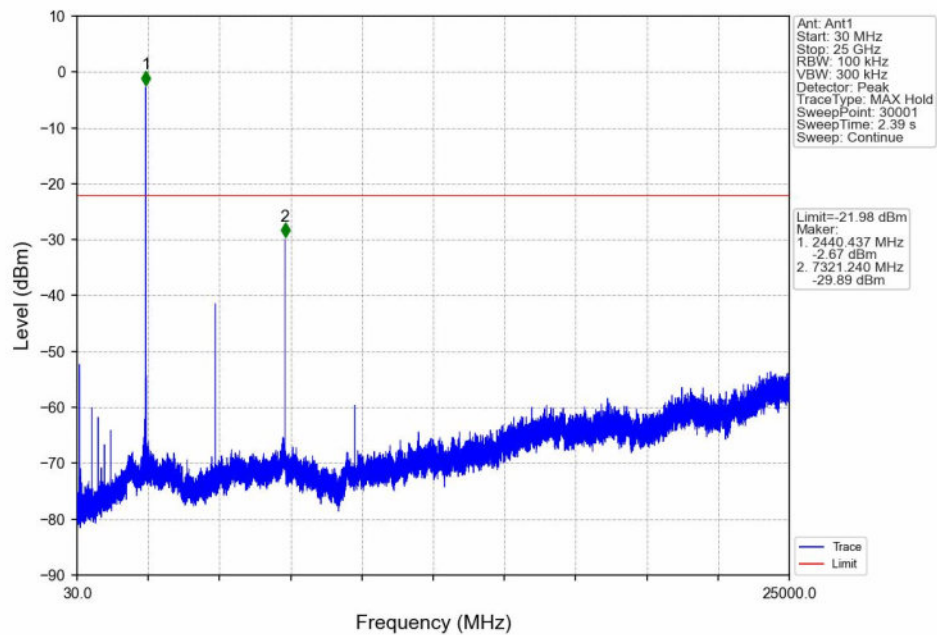


FCC ID: 2A4CE-A10

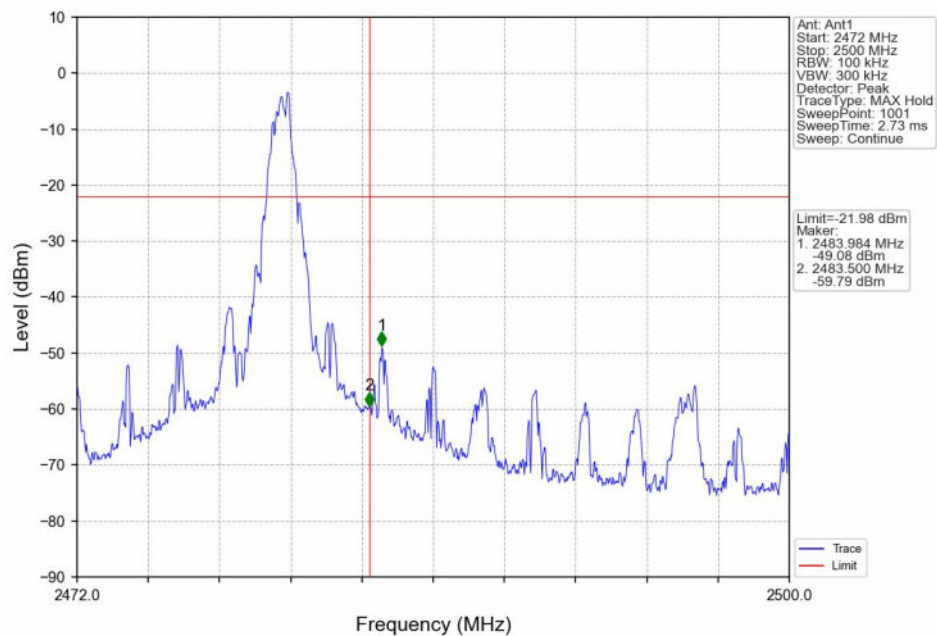
4.2.2 CSE

FCC ID: 2A4CE-A10

1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



FCC ID: 2A4CE-A10

