

Appendix Test Data for BLE (Conducted Measurement)

Product Name: SPEAKER BOX

Trade Mark: **IQ**sound®

Test Model: IQ-4715DJBT

FCC ID: 2AC5RIQ-4715DJBT

Environmental Conditions

Temperature:	24.6℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Tony luo
Supervised by:	Max zhang
NOTE	N/A

1. Duty Cycle

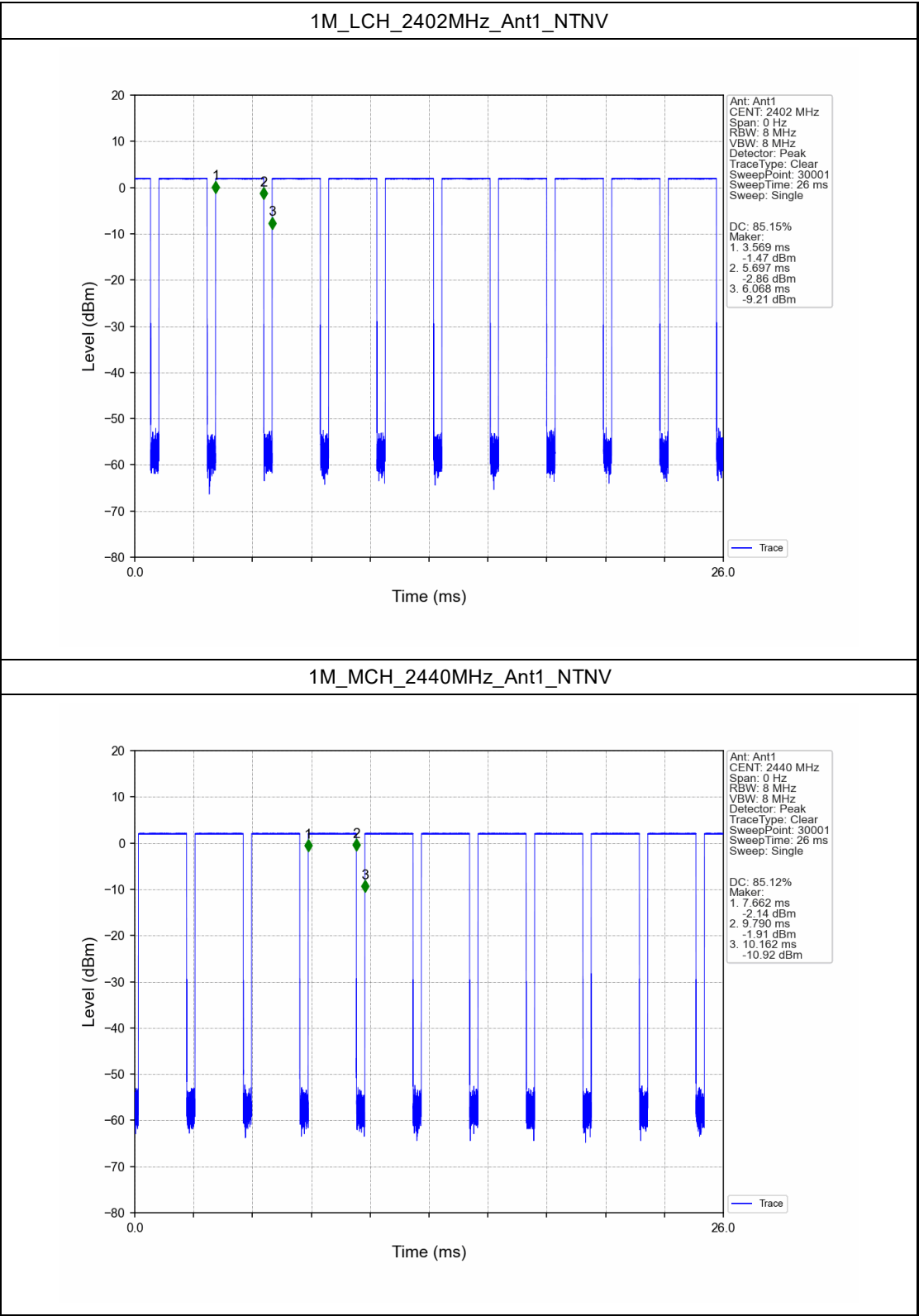
1.1 Test Result

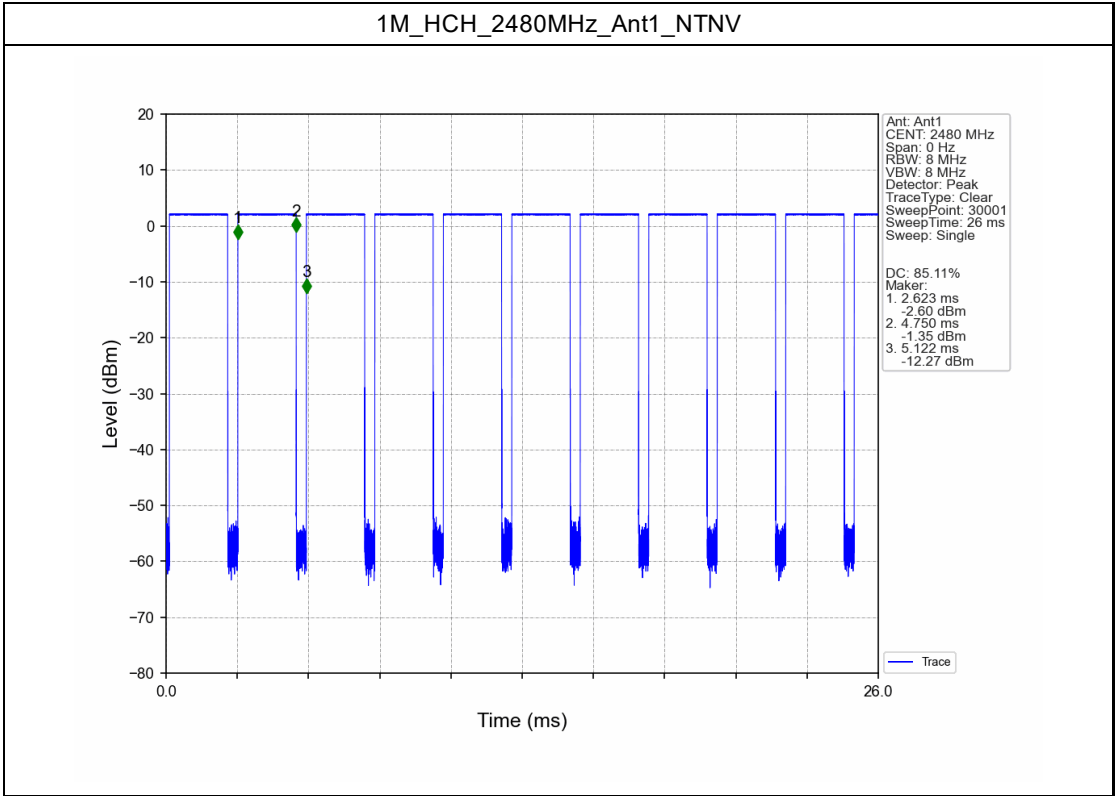
1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.128	2.499	85.15	0.70	0.03
		2440	2.128	2.500	85.12	0.70	0.03
		2480	2.127	2.499	85.11	0.70	0.03

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

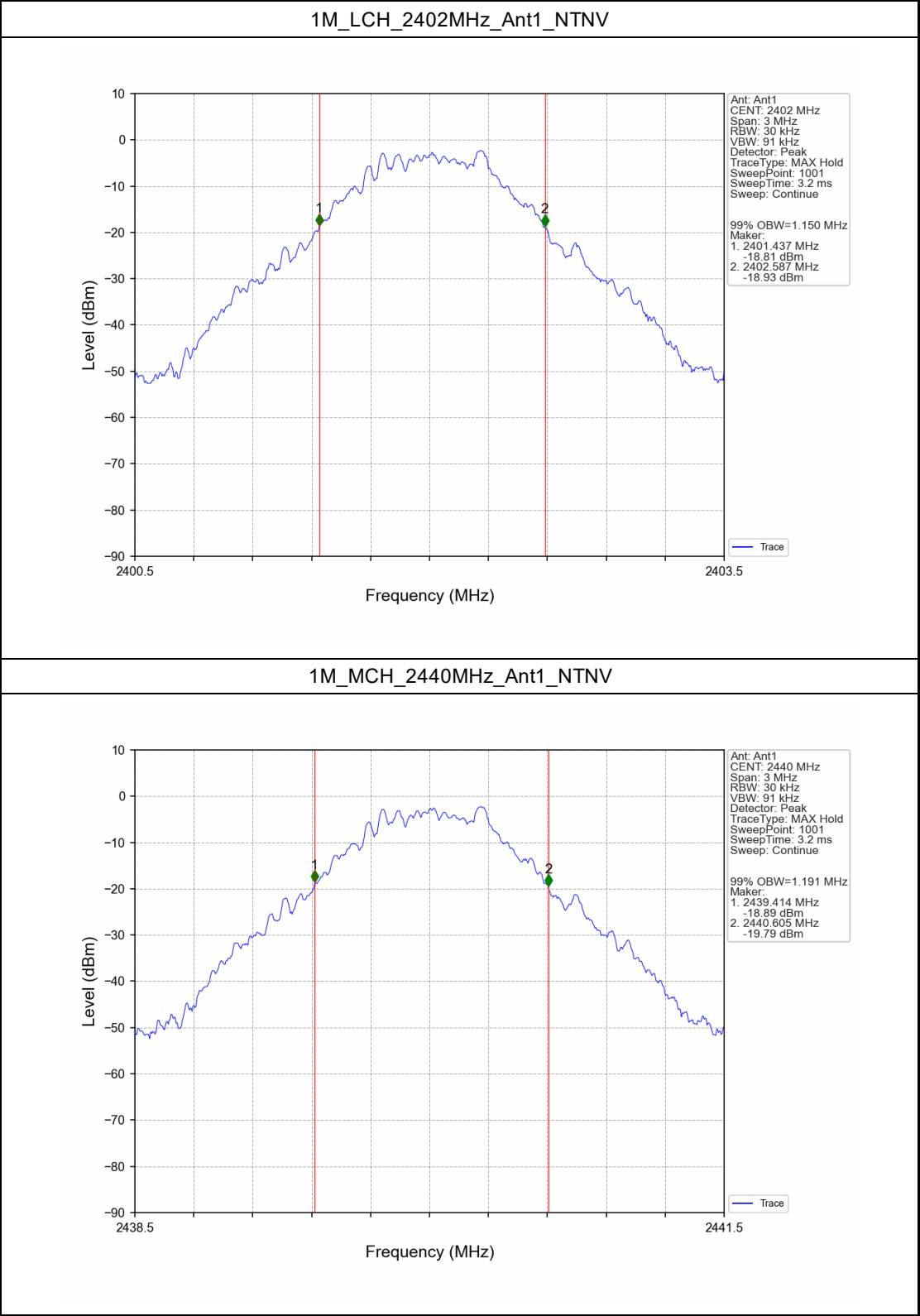
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.150	/	Pass
		2440	1	1.191	/	Pass
		2480	1	1.223	/	Pass

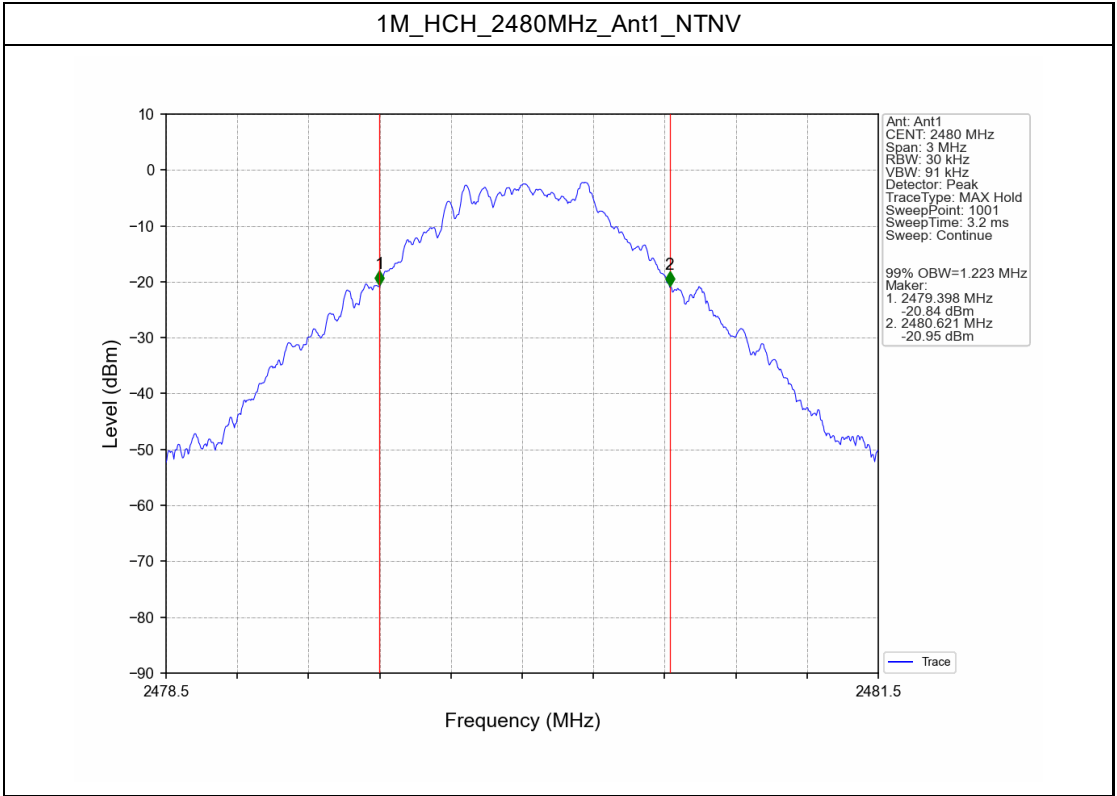
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.736	≥ 0.5	Pass
		2440	1	0.739	≥ 0.5	Pass
		2480	1	0.748	≥ 0.5	Pass

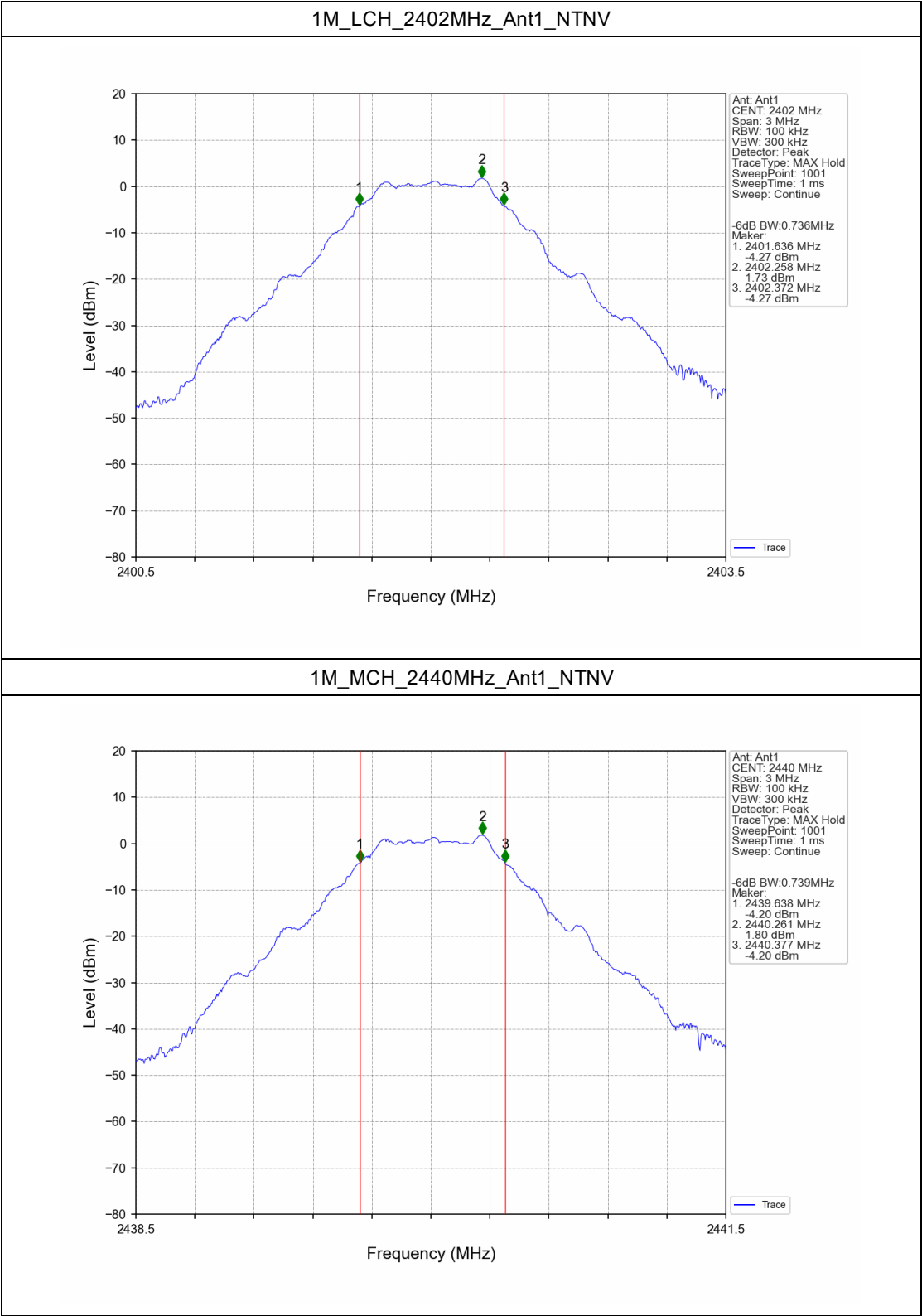
2.2 Test Graph

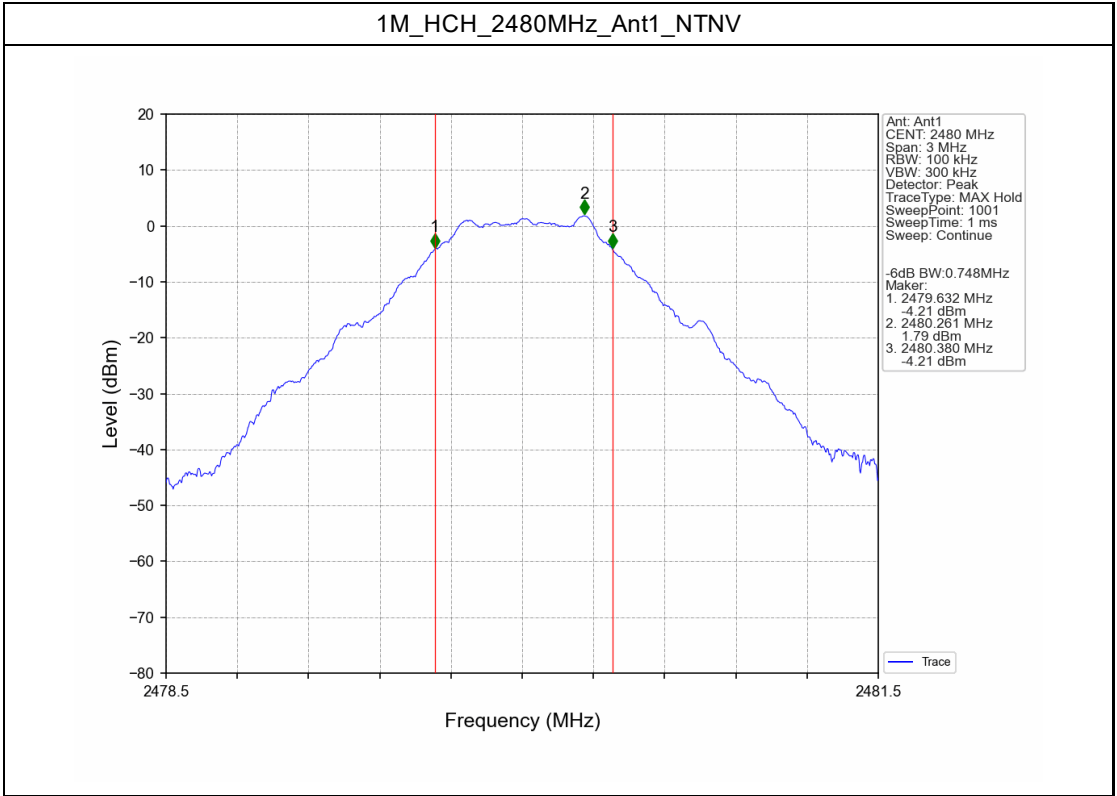
2.2.1 OBW





2.2.2 6dB BW





3. Maximum Conducted Output Power

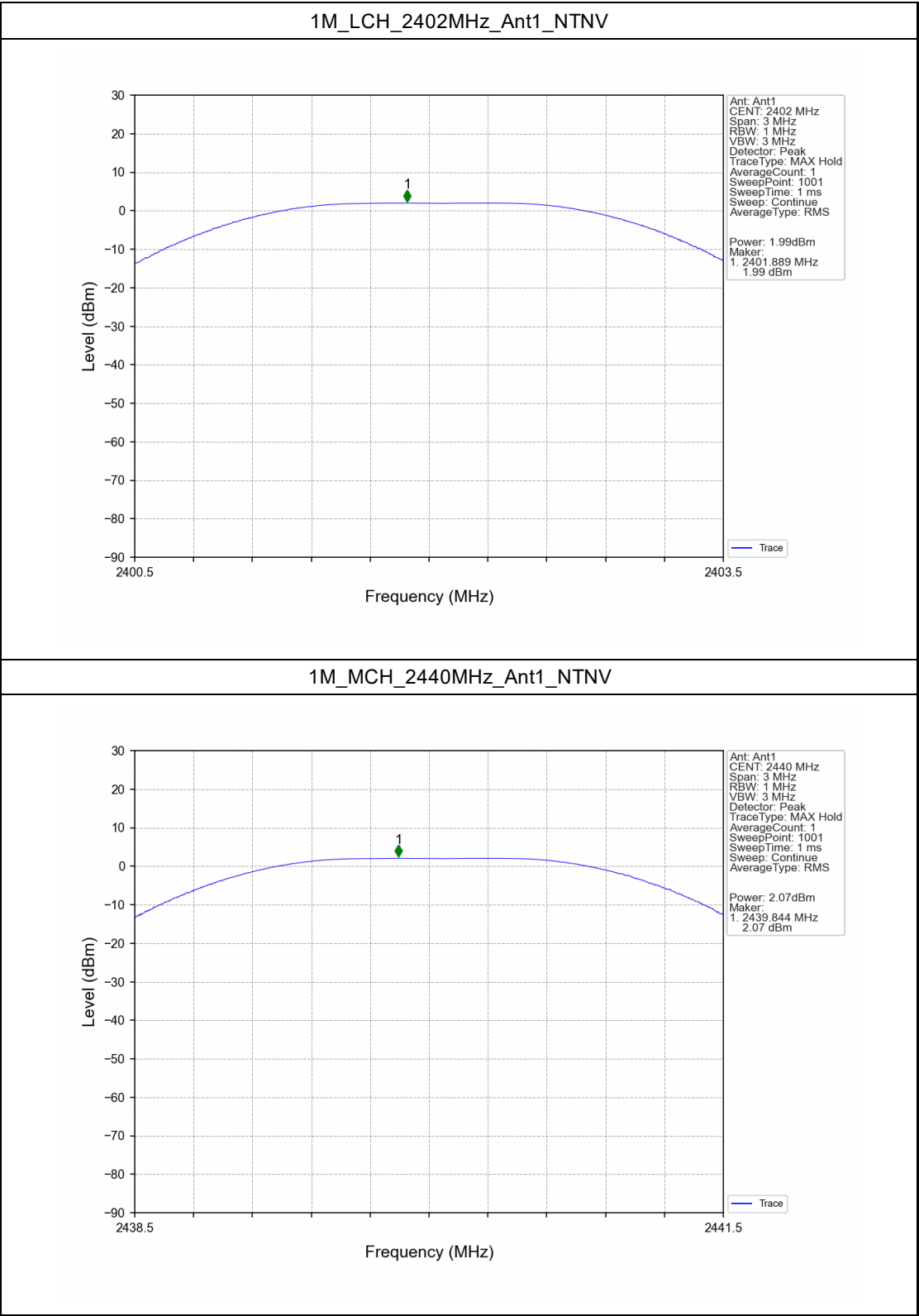
3.1 Test Result

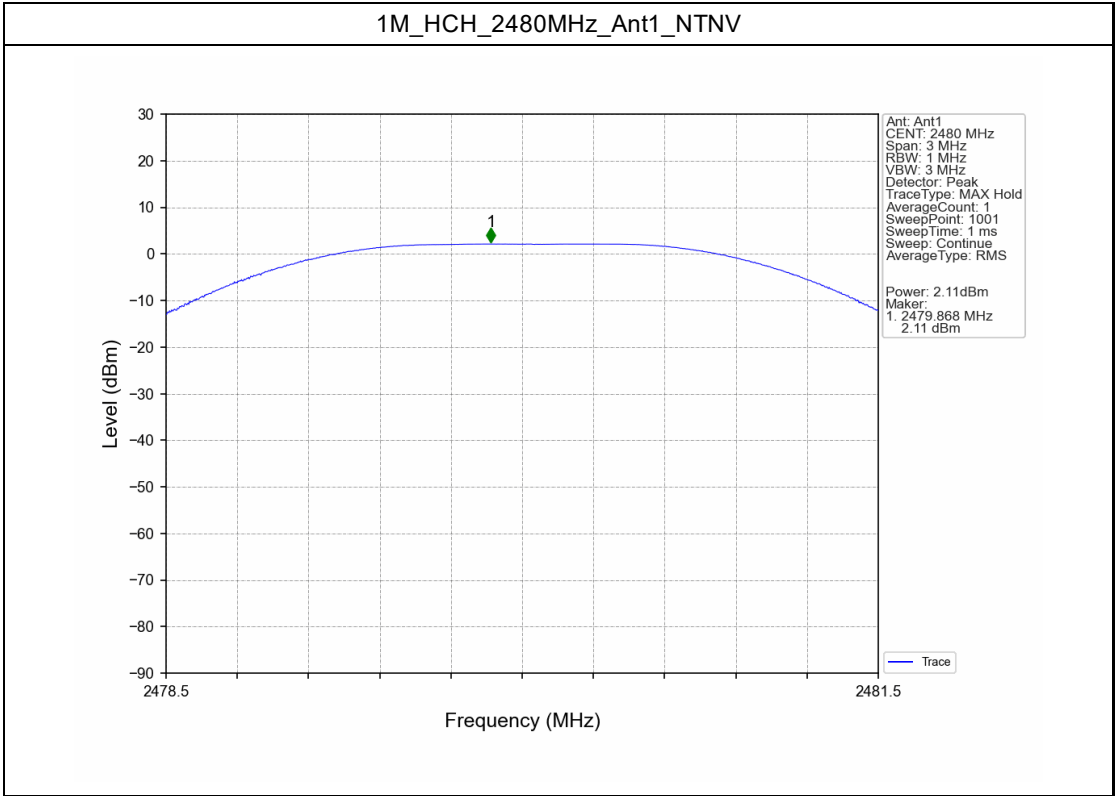
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.99	<=30	Pass
		2440	2.07	<=30	Pass
		2480	2.11	<=30	Pass
Note1: Antenna Gain: Ant1: 1.70dBi;					

3.2 Test Graph

3.2.1 Power





4. Maximum Power Spectral Density

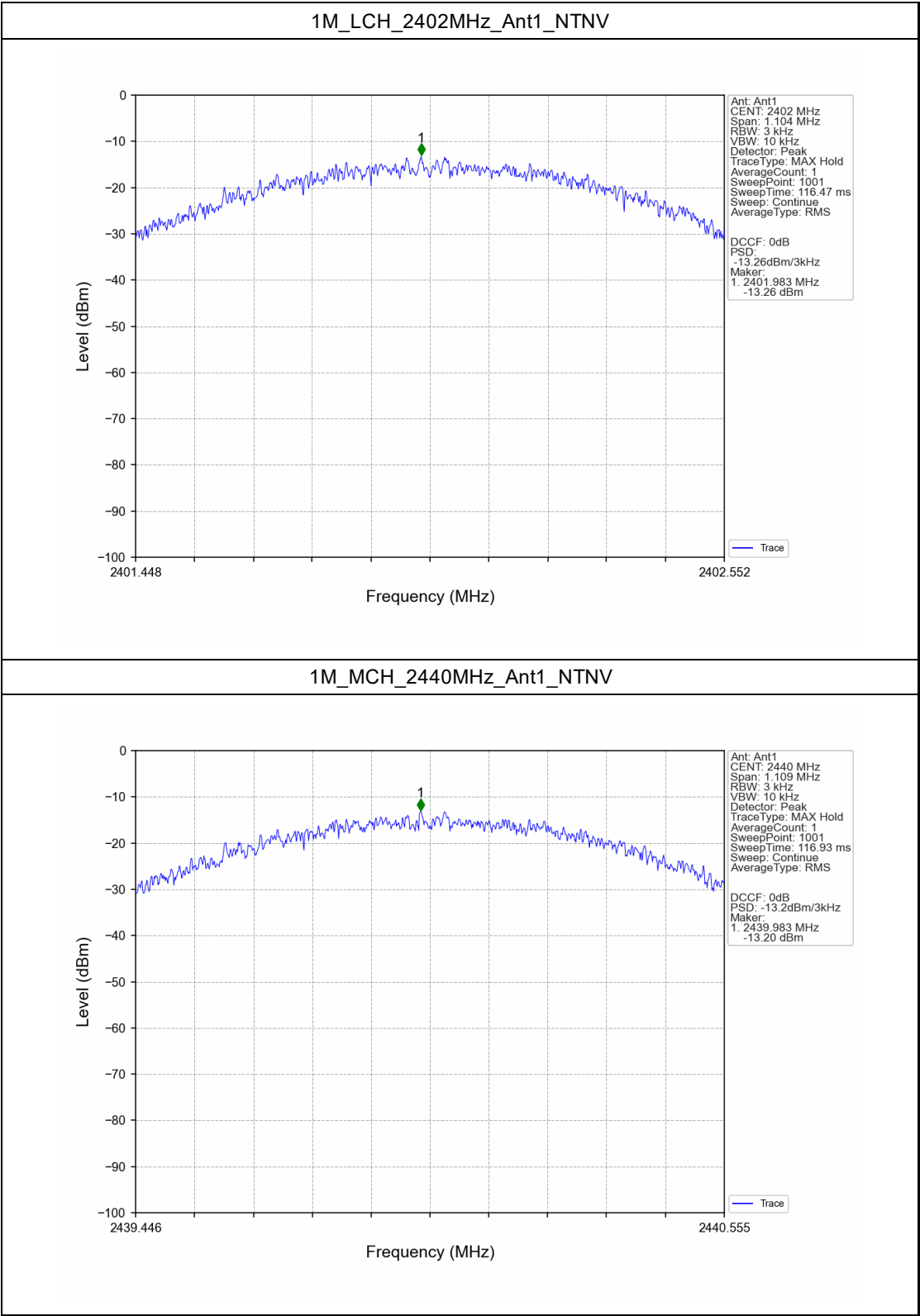
4.1 Test Result

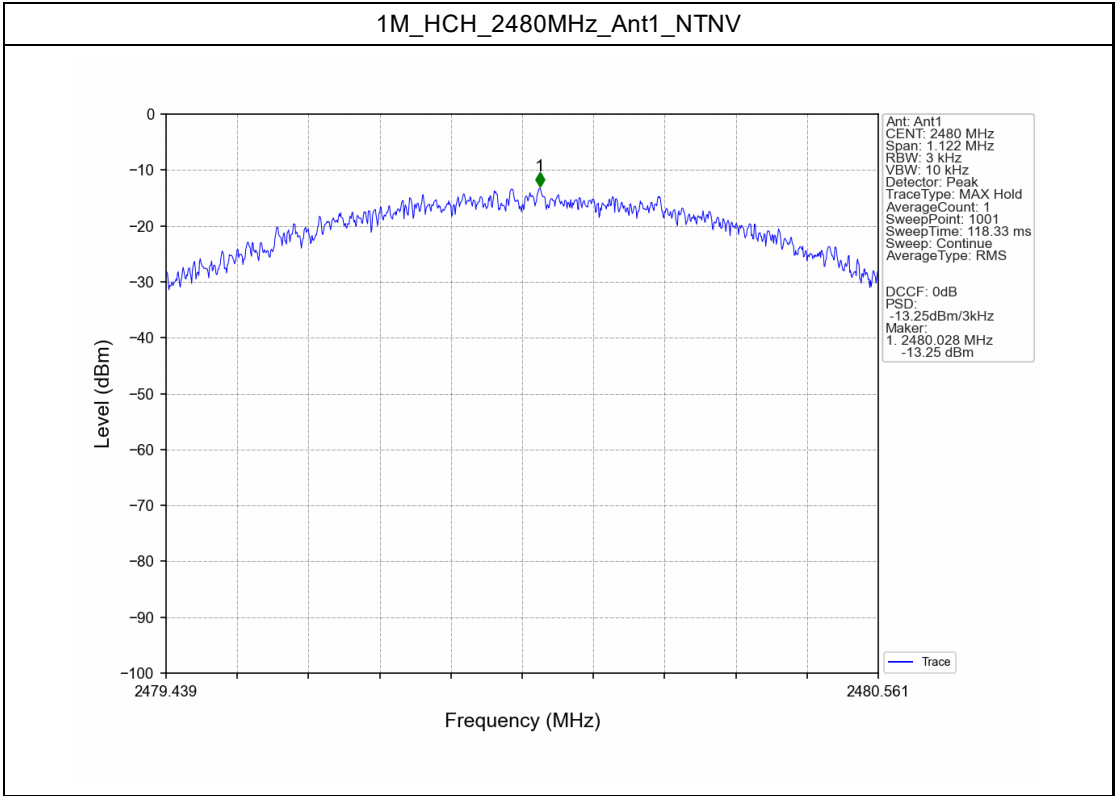
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-13.26	<=8	Pass
		2440	-13.20	<=8	Pass
		2480	-13.25	<=8	Pass
Note1: Antenna Gain: Ant1: 1.70dBi;					

4.2 Test Graph

4.2.1 PSD





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

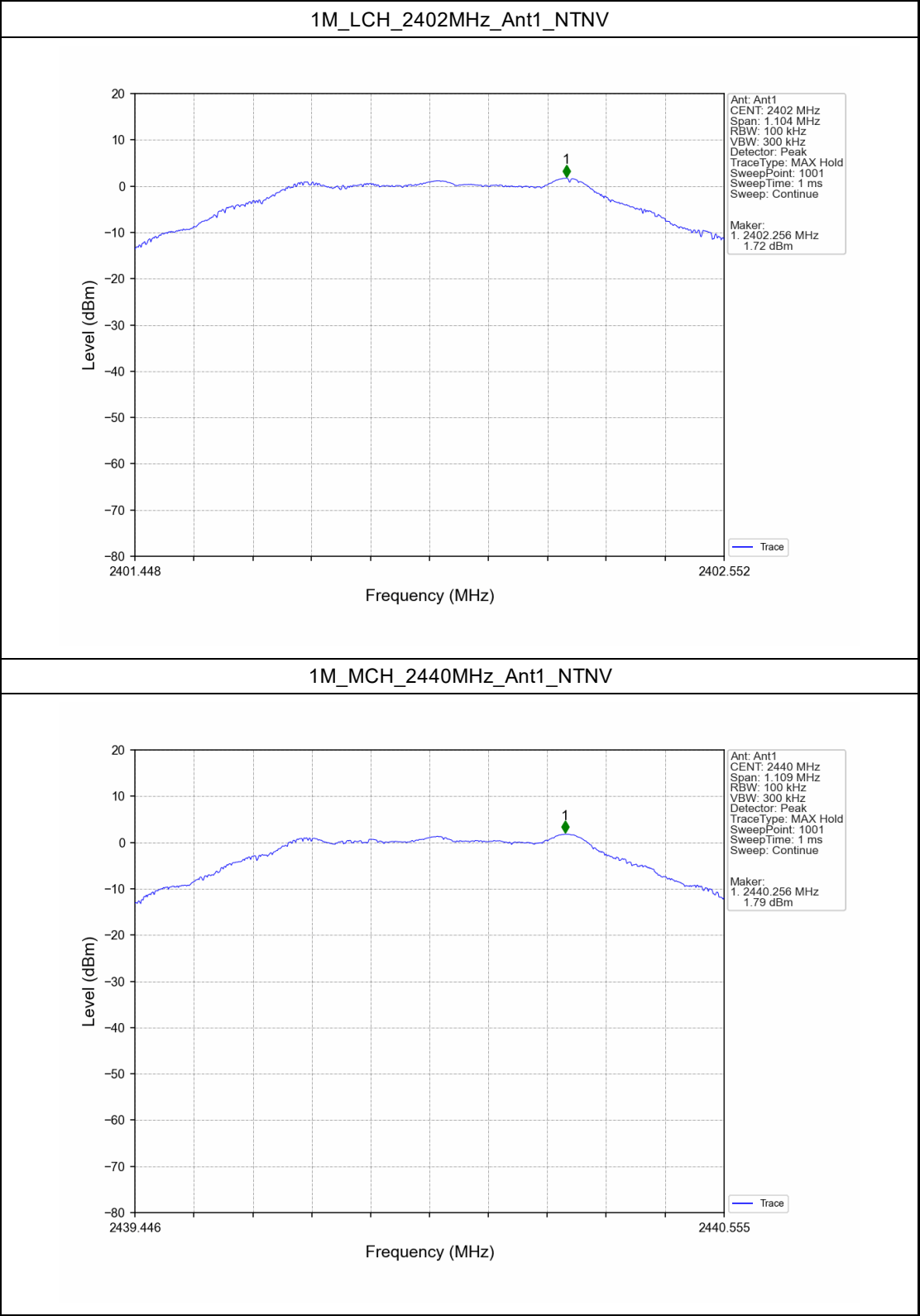
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	1.72
		2440	1	1.79
		2480	1	1.76
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

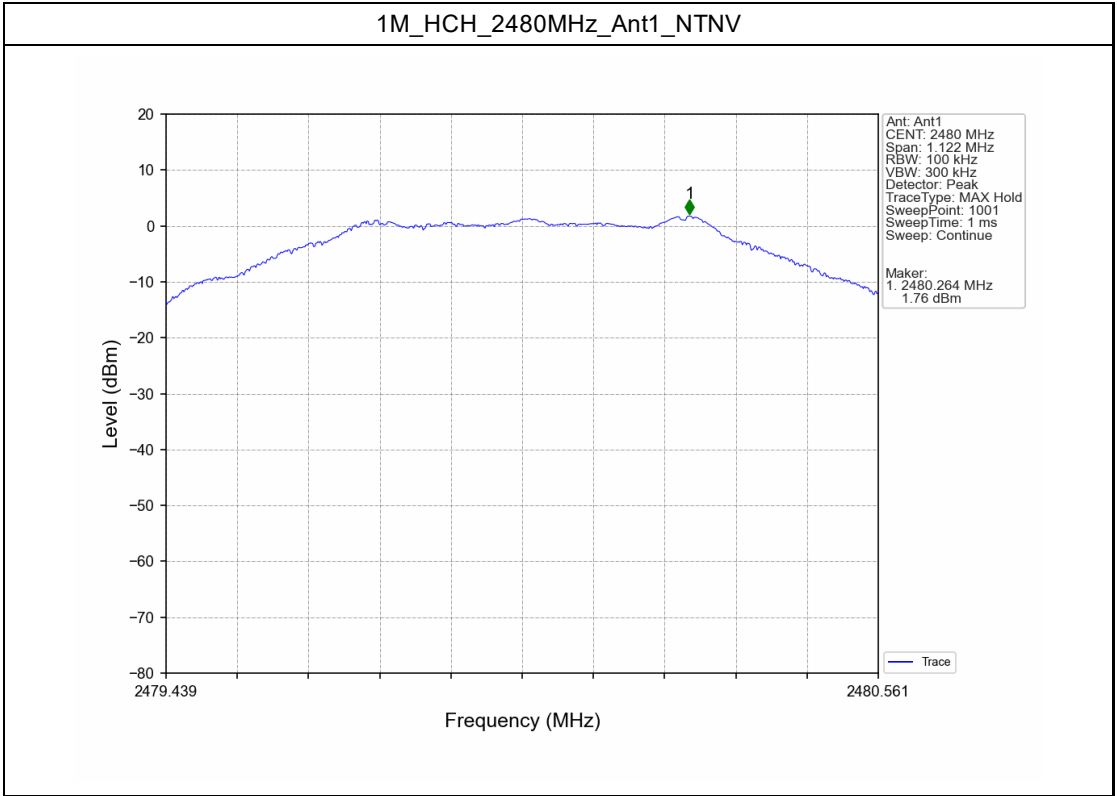
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.79	-18.21	Pass
		2440	1	1.79	-18.21	Pass
		2480	1	1.79	-18.21	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 Test Graph

5.2.1 Ref





5.2.2 CSE

