



Shenzhen CTL Testing Technology Co., Ltd.

Zone A, 1/ F, Warehouse 2, Baisha Logistics Company, No. 3011 Shahe West Road,
Nanshan District, Shenzhen, Guangdong, China
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

Appendix RF test data for BLE

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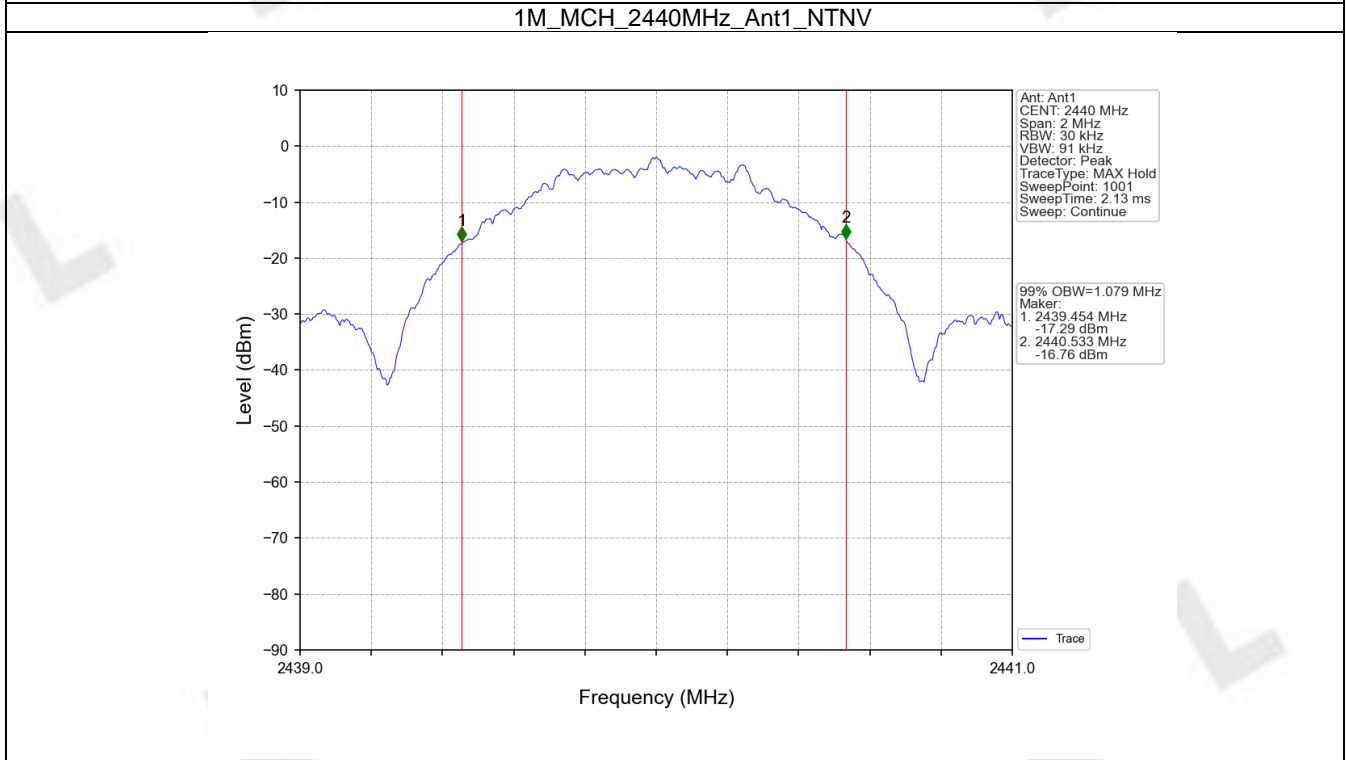
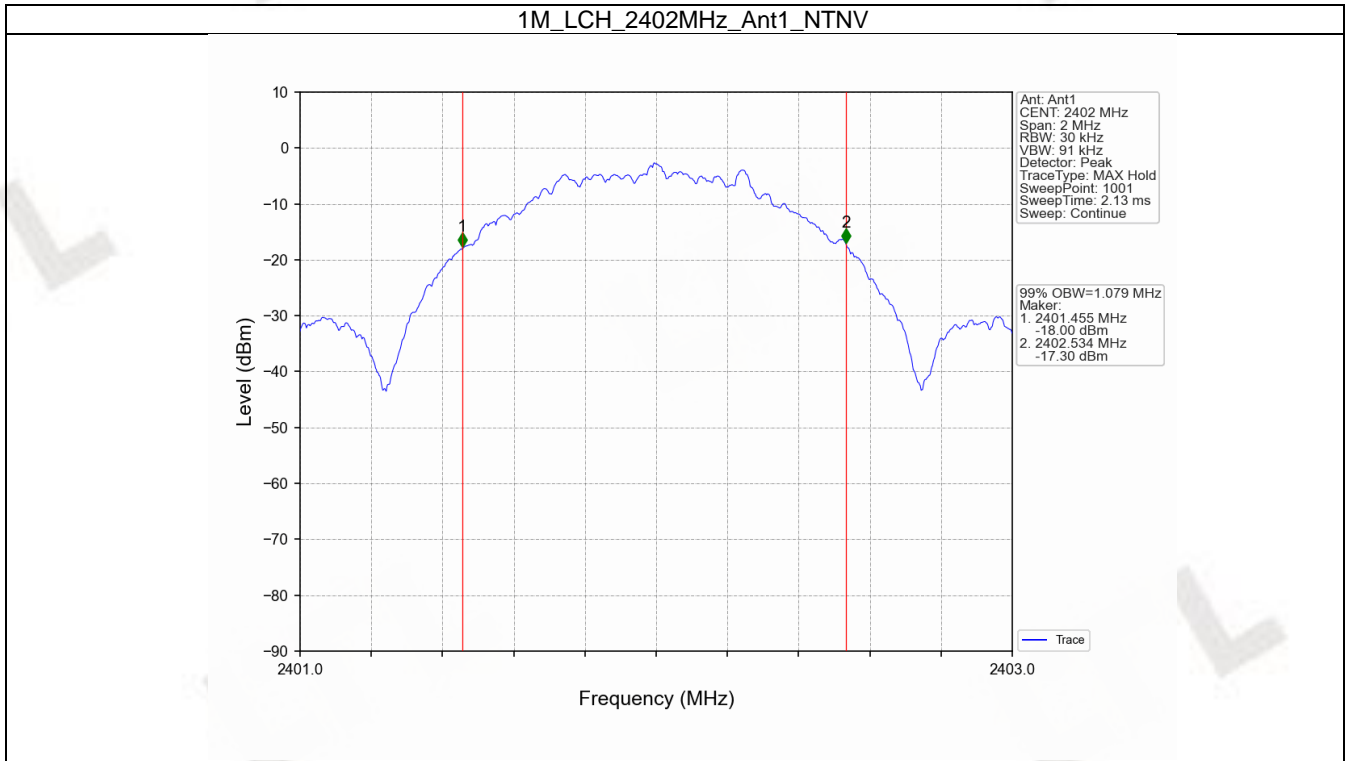
1. Bandwidth

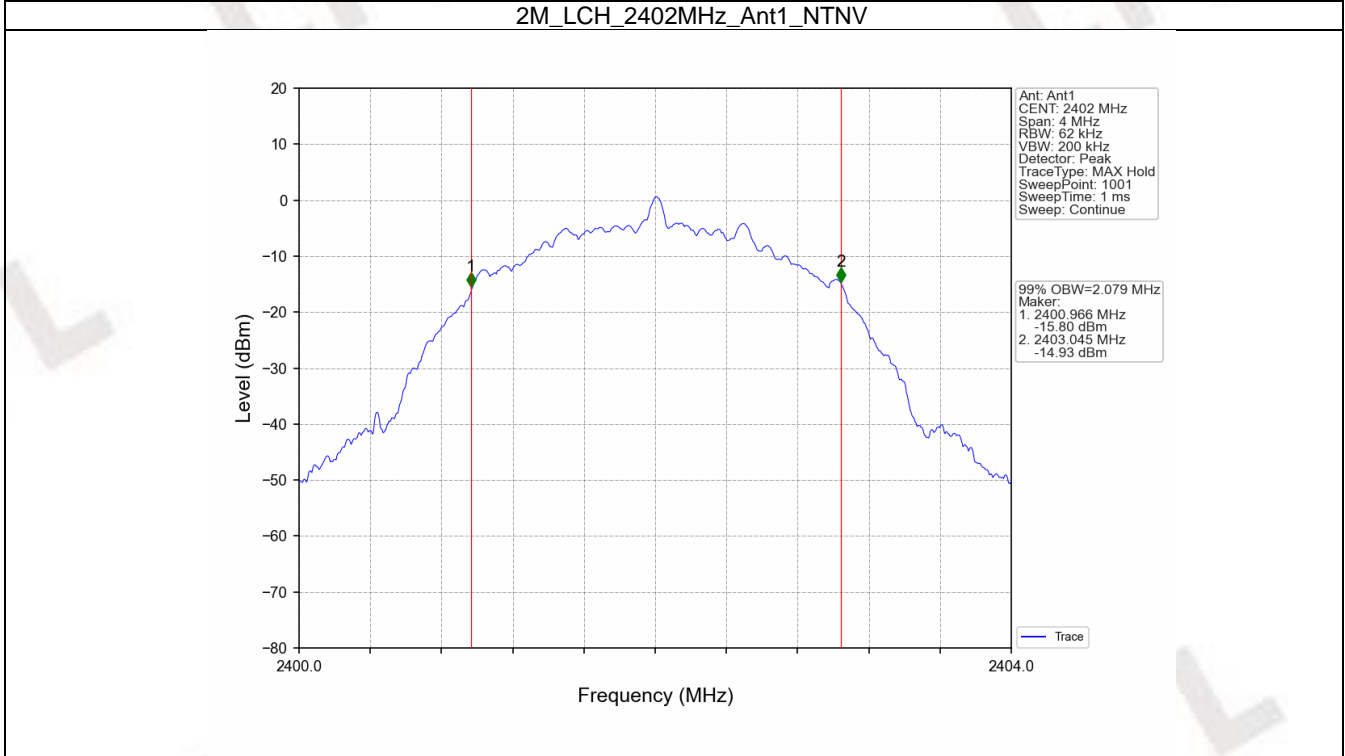
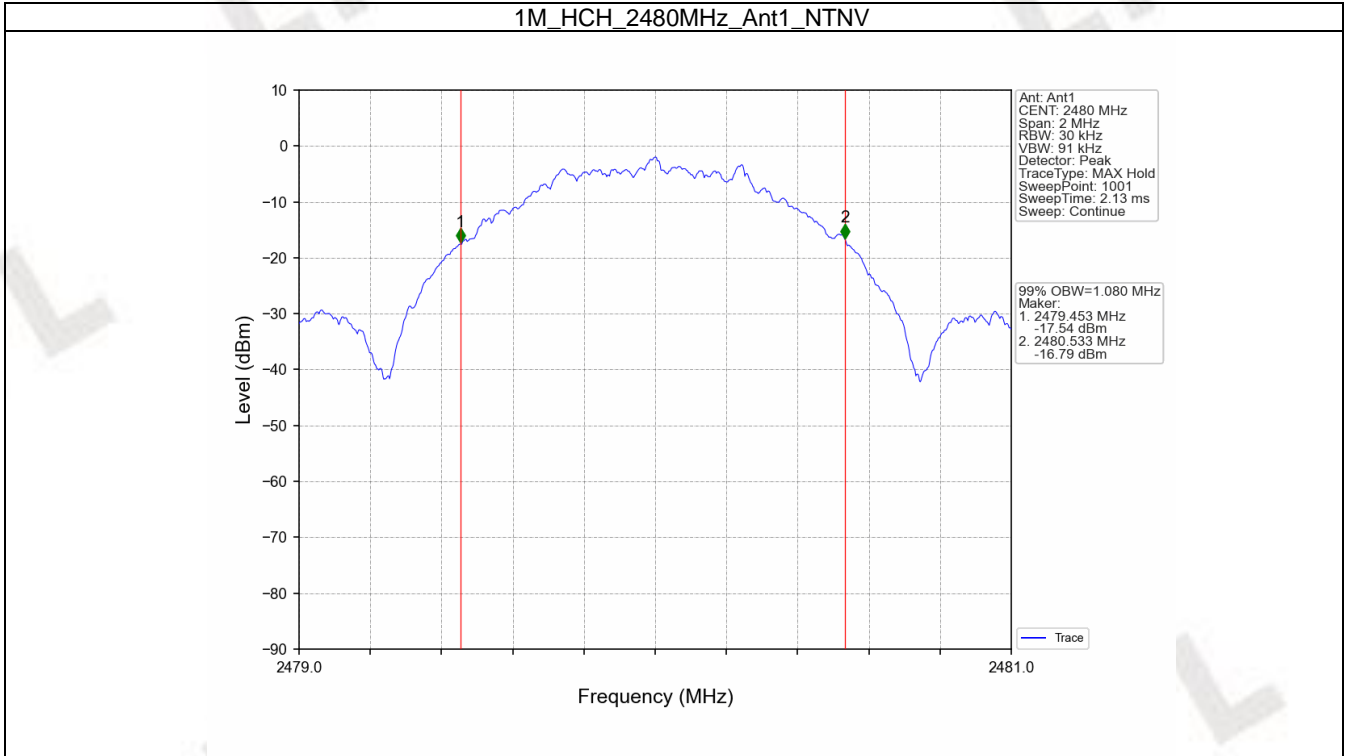
1.1 OBW

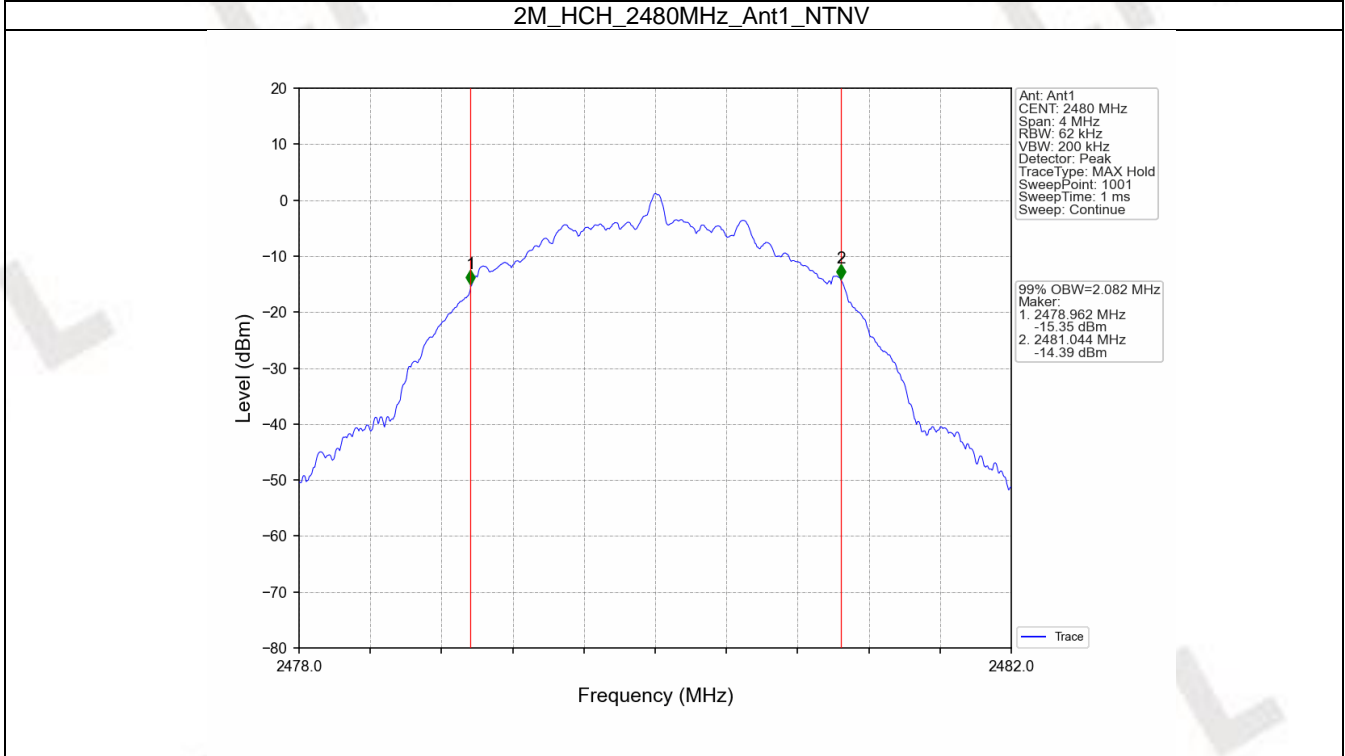
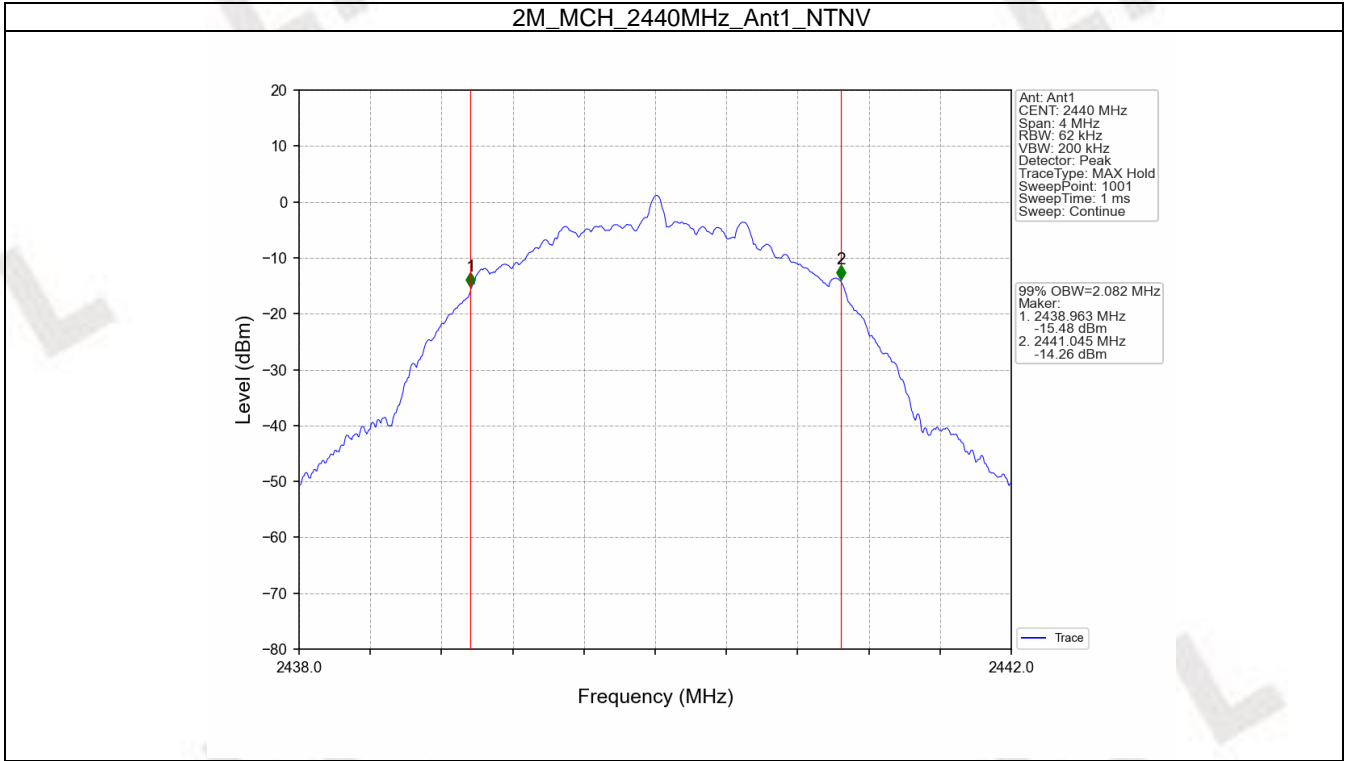
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.079	/	Pass
		2440	1	1.079	/	Pass
		2480	1	1.080	/	Pass
2M	SISO	2402	1	2.079	/	Pass
		2440	1	2.082	/	Pass
		2480	1	2.082	/	Pass

1.1.2 Test Graph





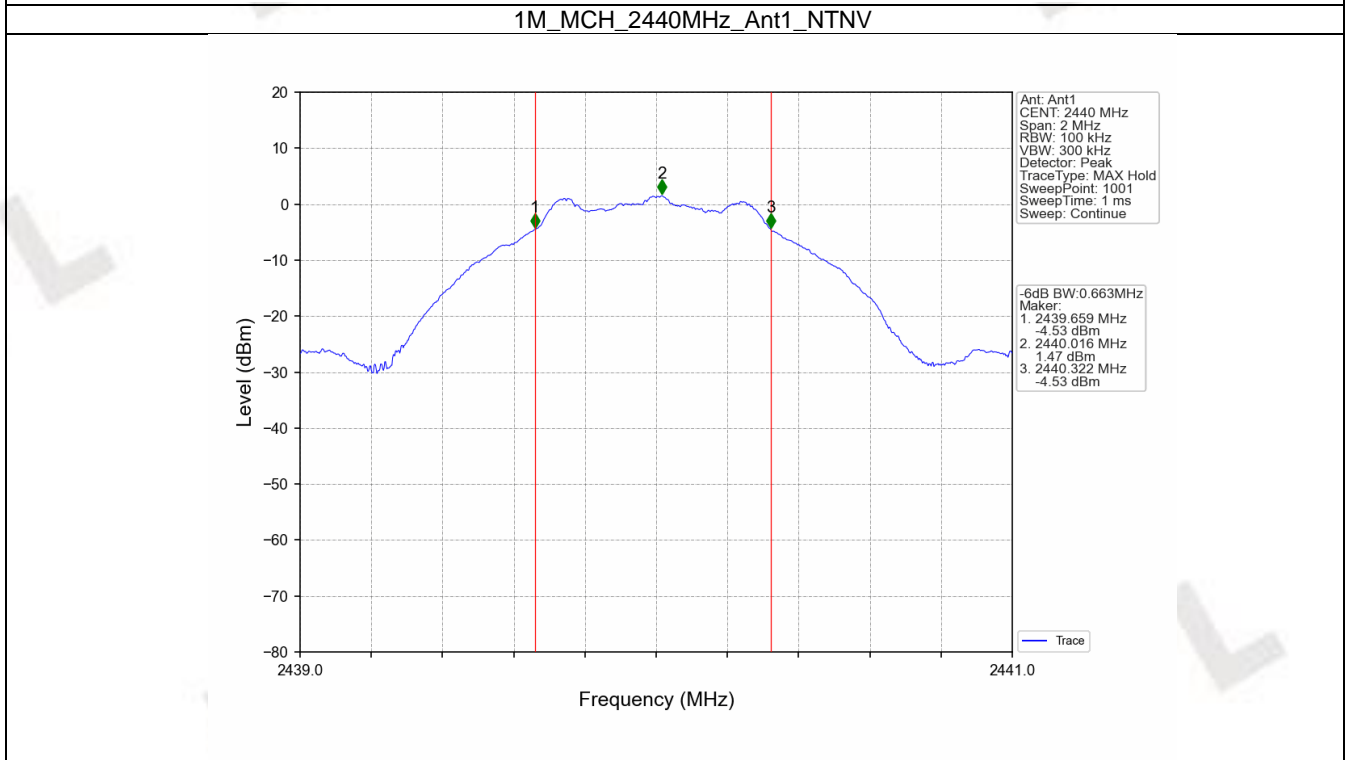
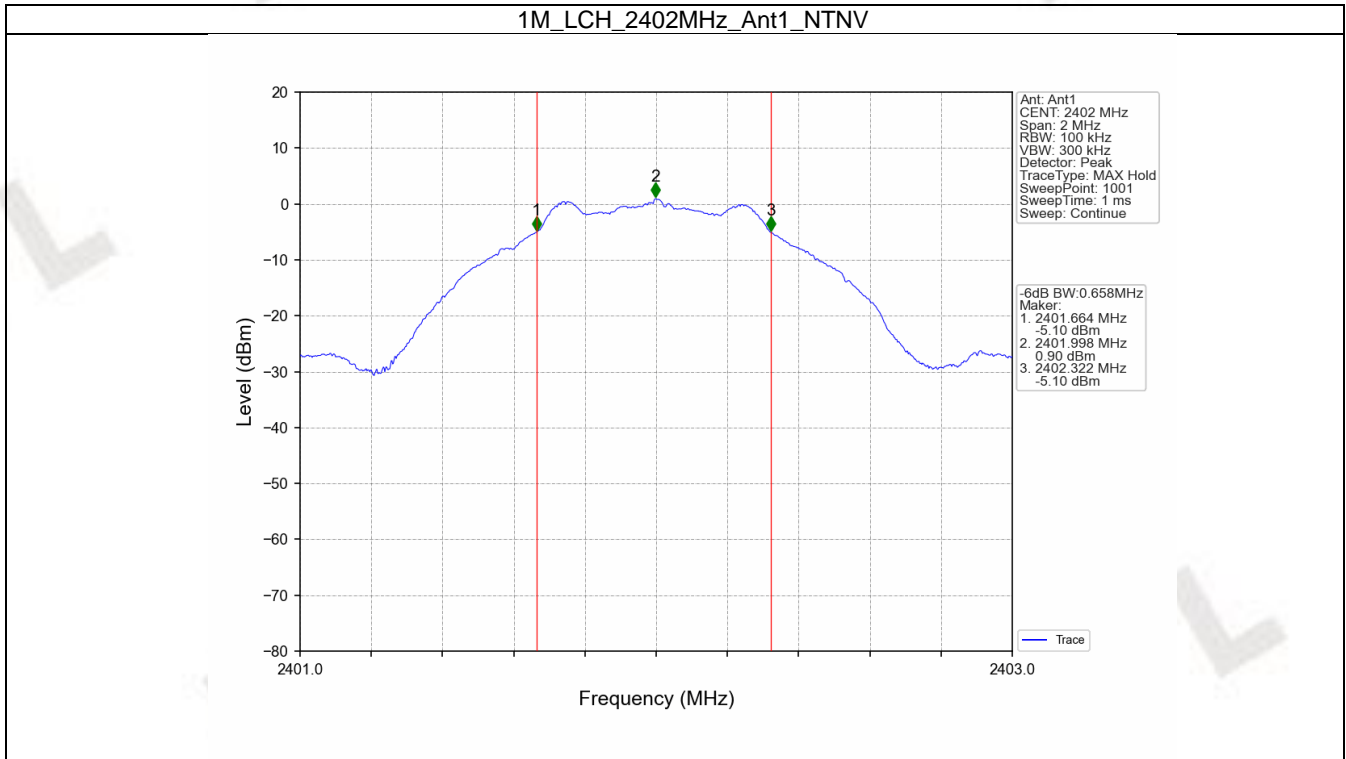


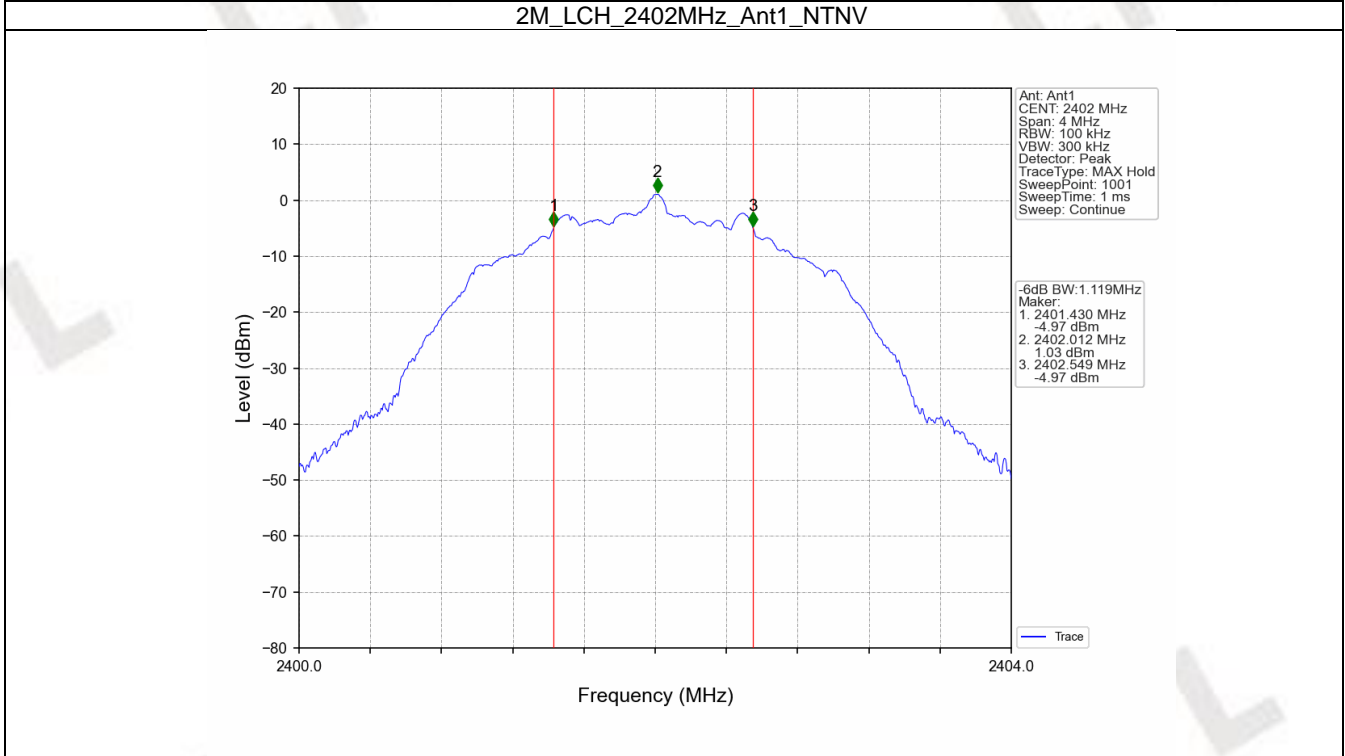
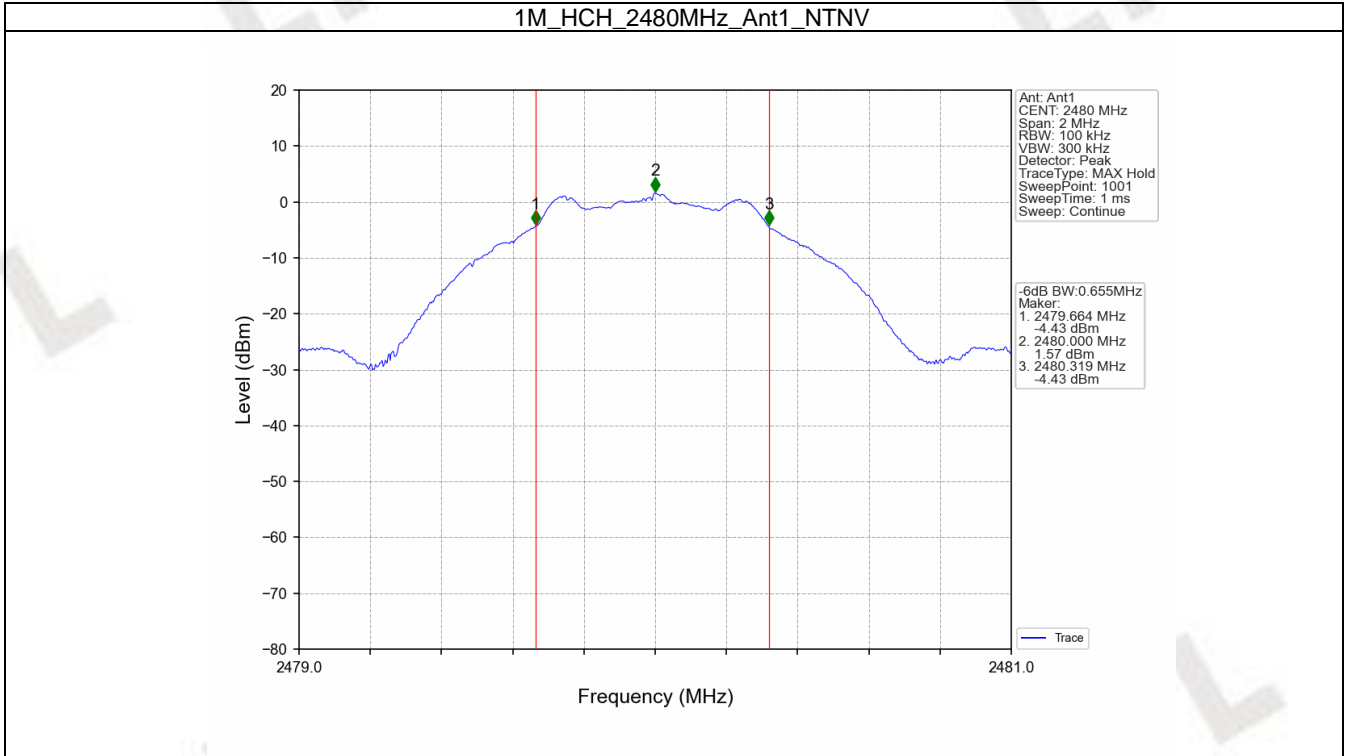
1.2 6dB BW

1.2.1 Test Result

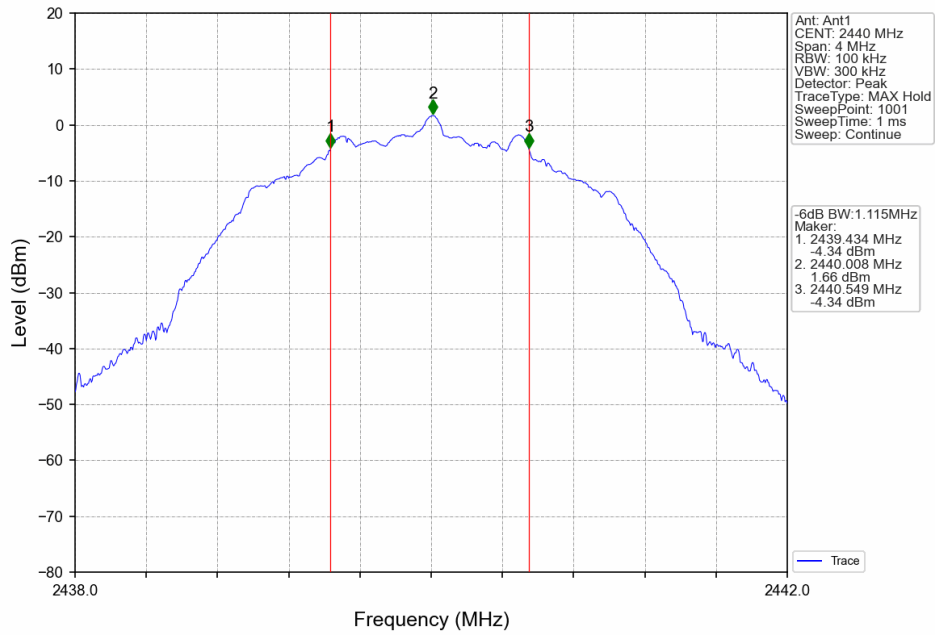
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.658	>=0.5	Pass
		2440	1	0.663	>=0.5	Pass
		2480	1	0.655	>=0.5	Pass
2M	SISO	2402	1	1.119	>=0.5	Pass
		2440	1	1.115	>=0.5	Pass
		2480	1	1.123	>=0.5	Pass

1.2.2 Test Graph

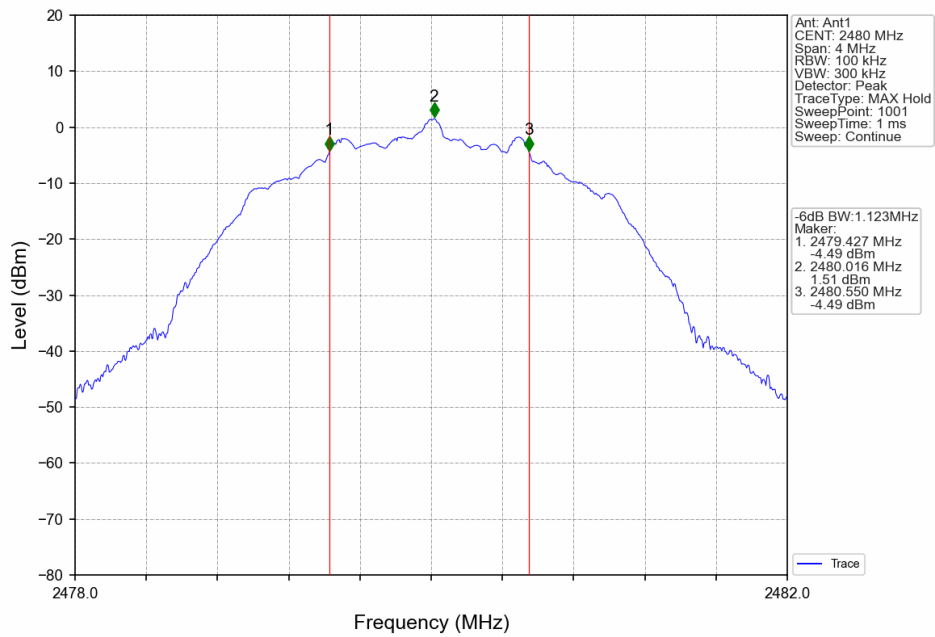




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2. Maximum Peak Conducted Output Power

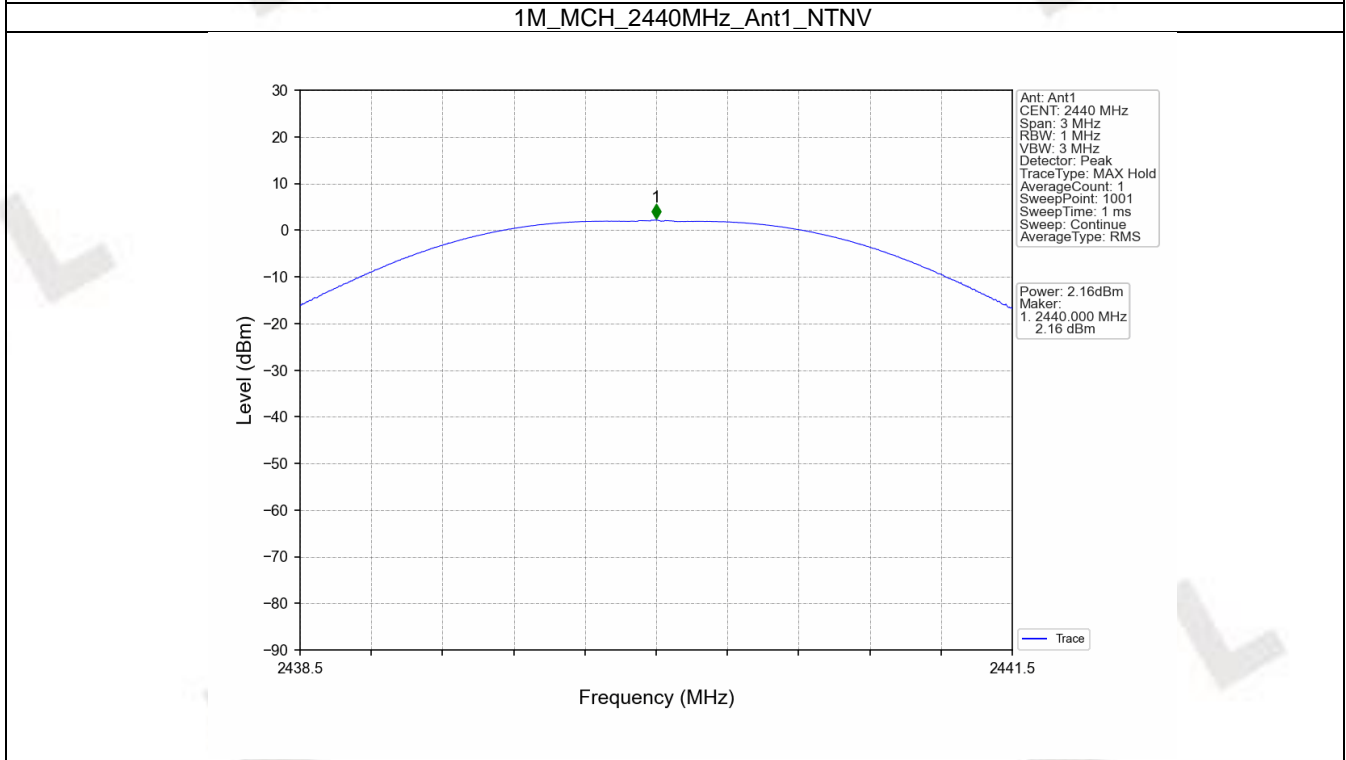
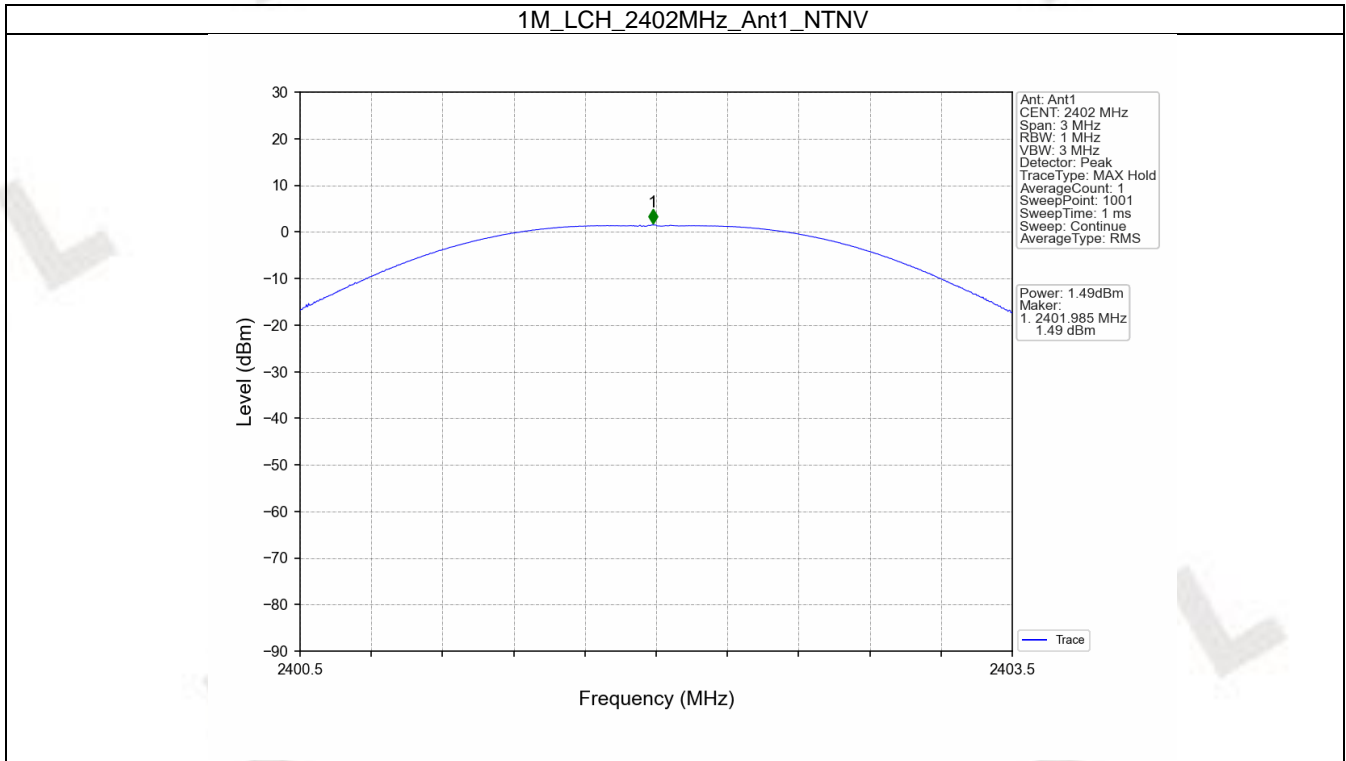
2.1 Power

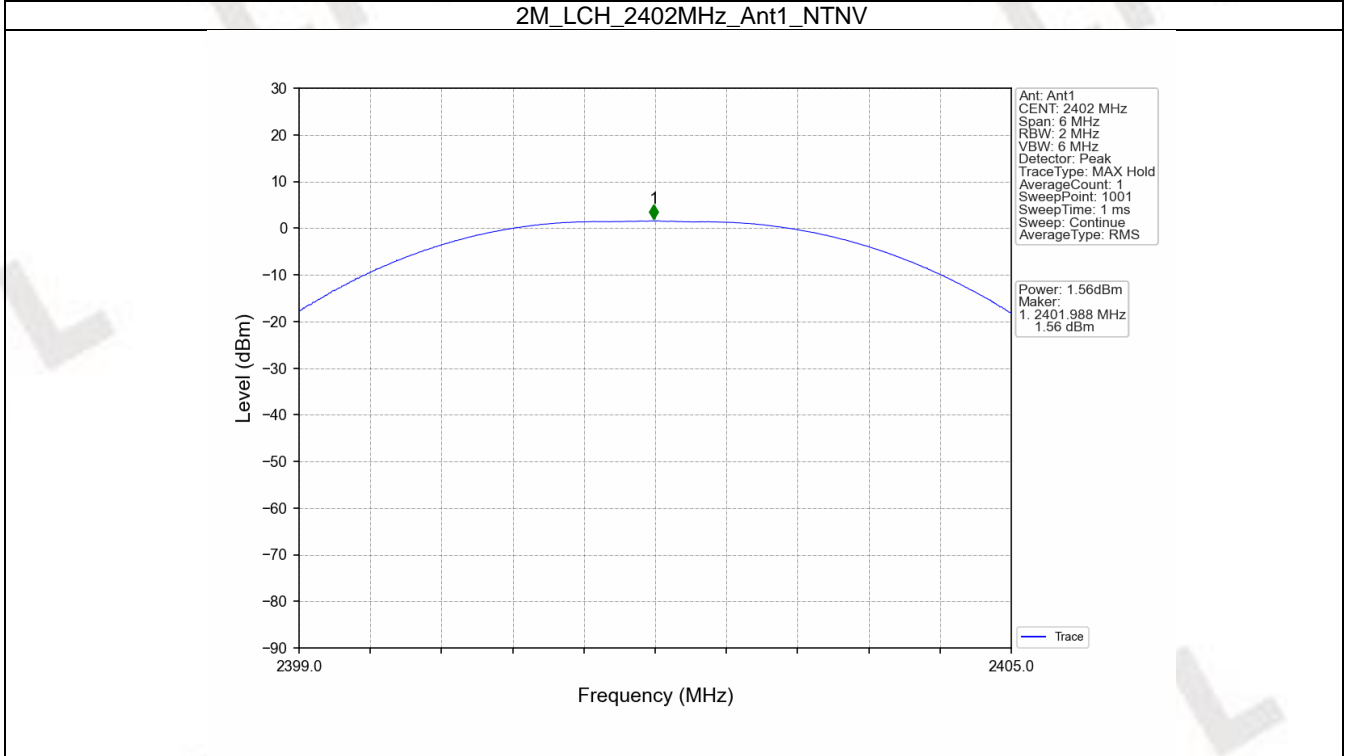
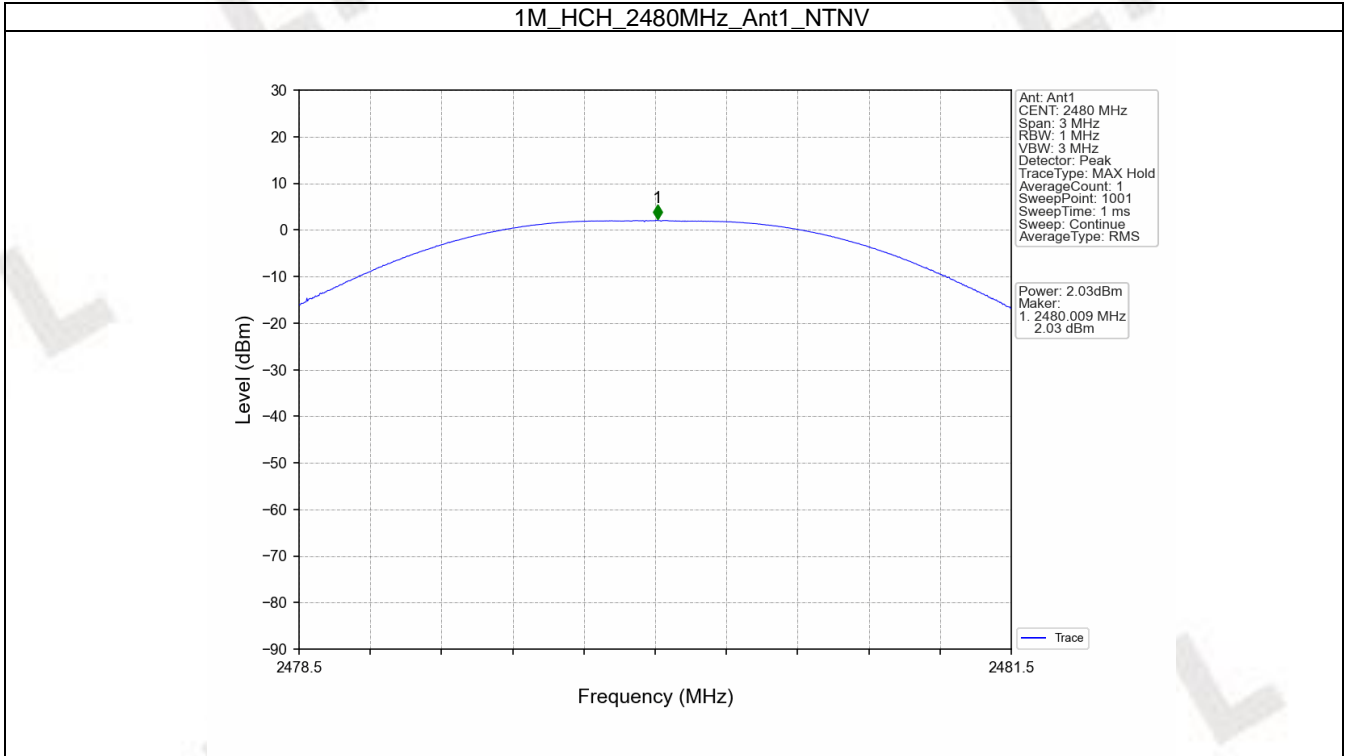
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.49	<=30	Pass
		2440	2.16	<=30	Pass
		2480	2.03	<=30	Pass
2M	SISO	2402	1.56	<=30	Pass
		2440	2.18	<=30	Pass
		2480	2.20	<=30	Pass

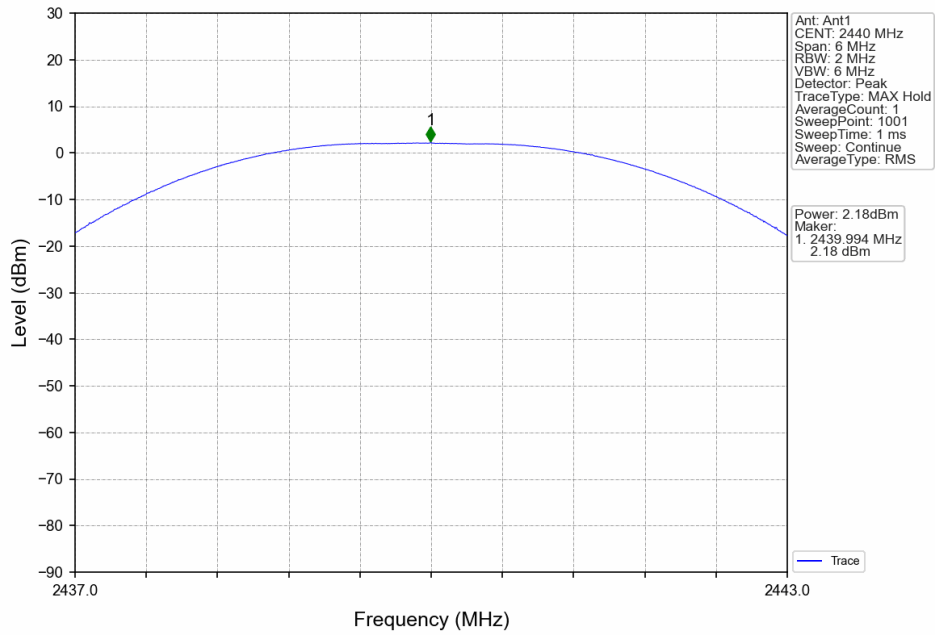
Note1: Antenna Gain: Ant1: 4.16dBi;

2.1.2 Test Graph

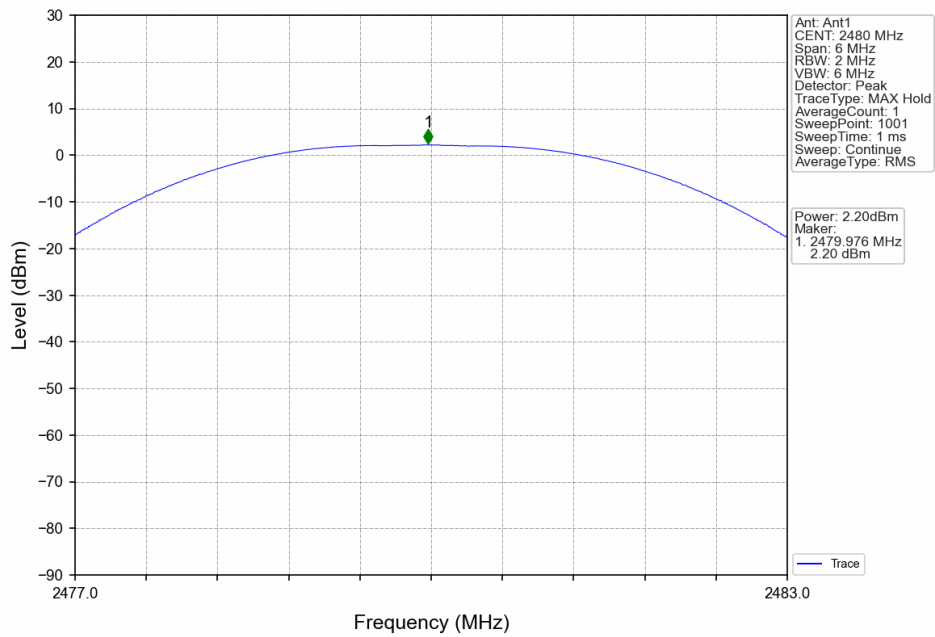




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2.2 EIRP

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.65	<=36.02	Pass
		2440	6.32	<=36.02	Pass
		2480	6.19	<=36.02	Pass
2M	SISO	2402	5.72	<=36.02	Pass
		2440	6.34	<=36.02	Pass
		2480	6.36	<=36.02	Pass

Note1: Antenna Gain: Ant1: 4.16dBi;
 Note2: E.I.R.P = Measured Power + Antenna Gain

3. Maximum Power Spectral Density

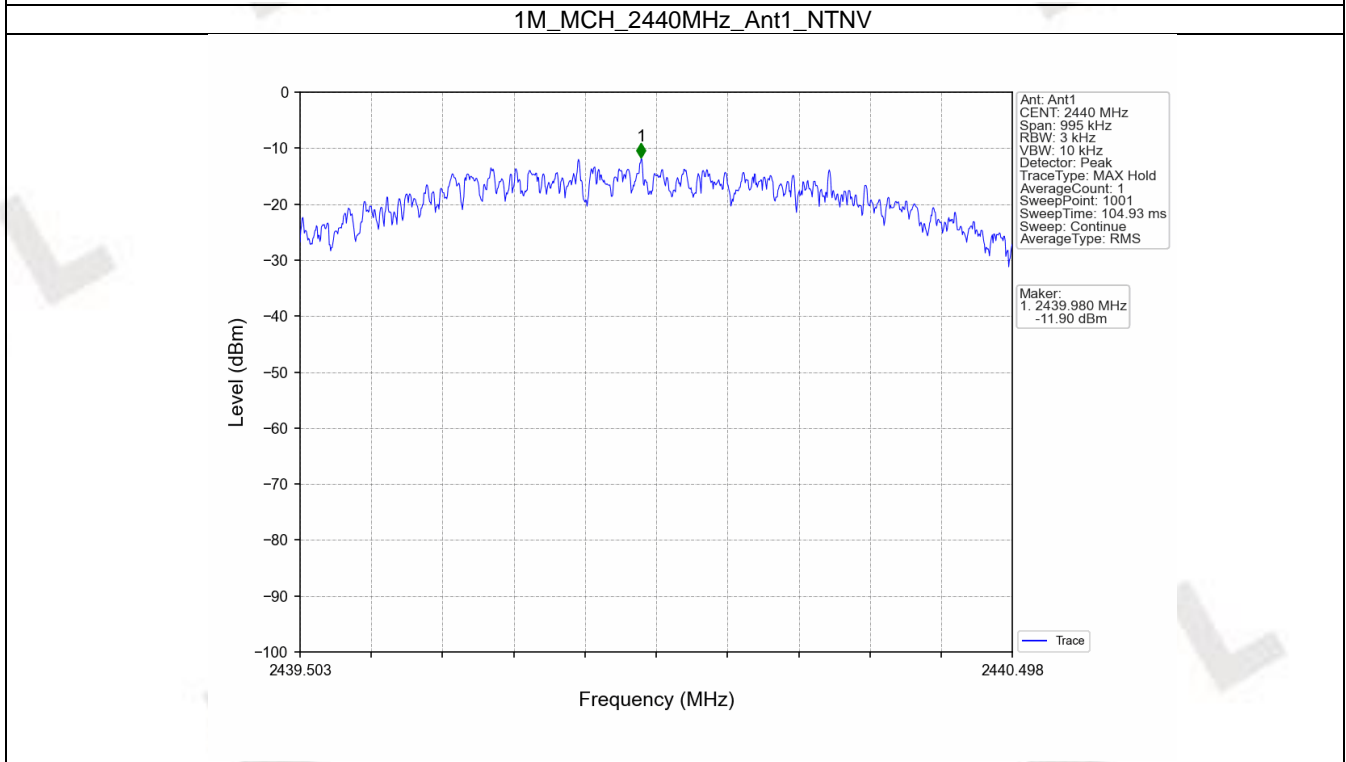
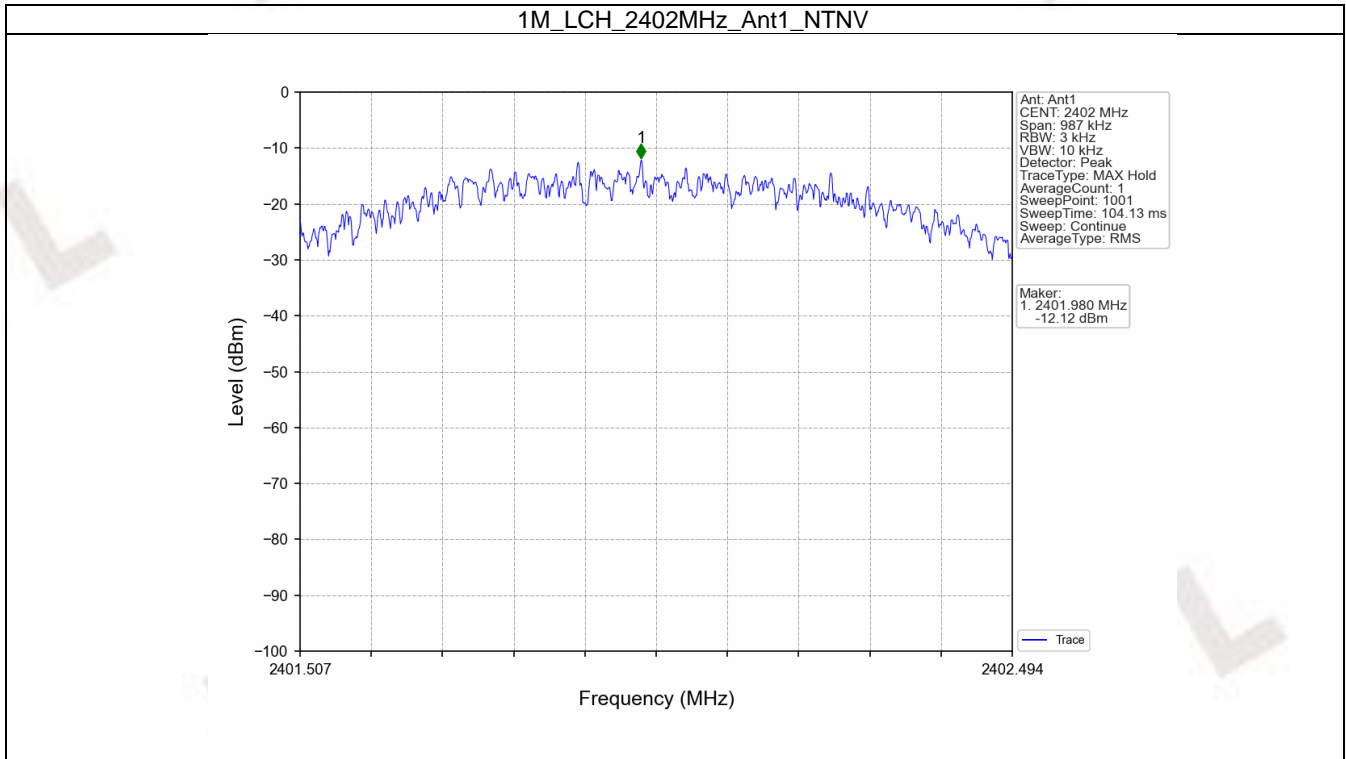
3.1 PSD

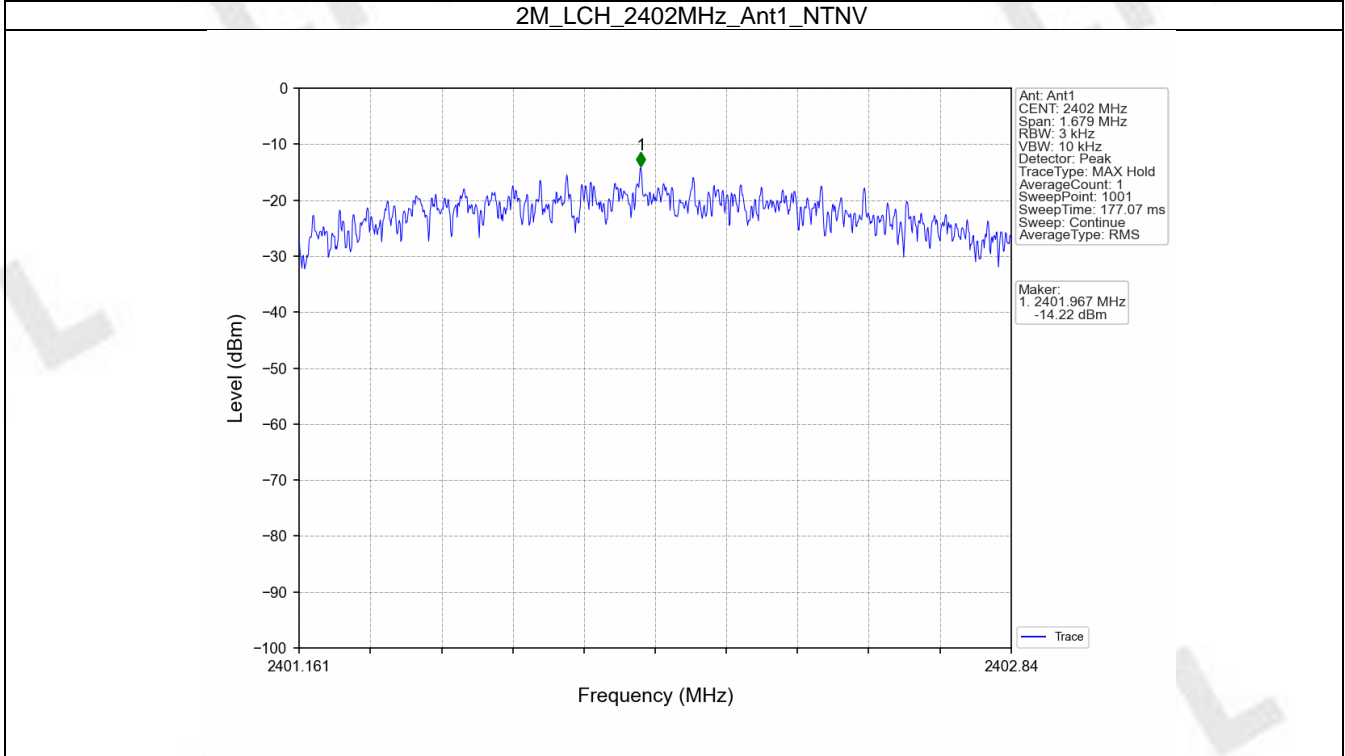
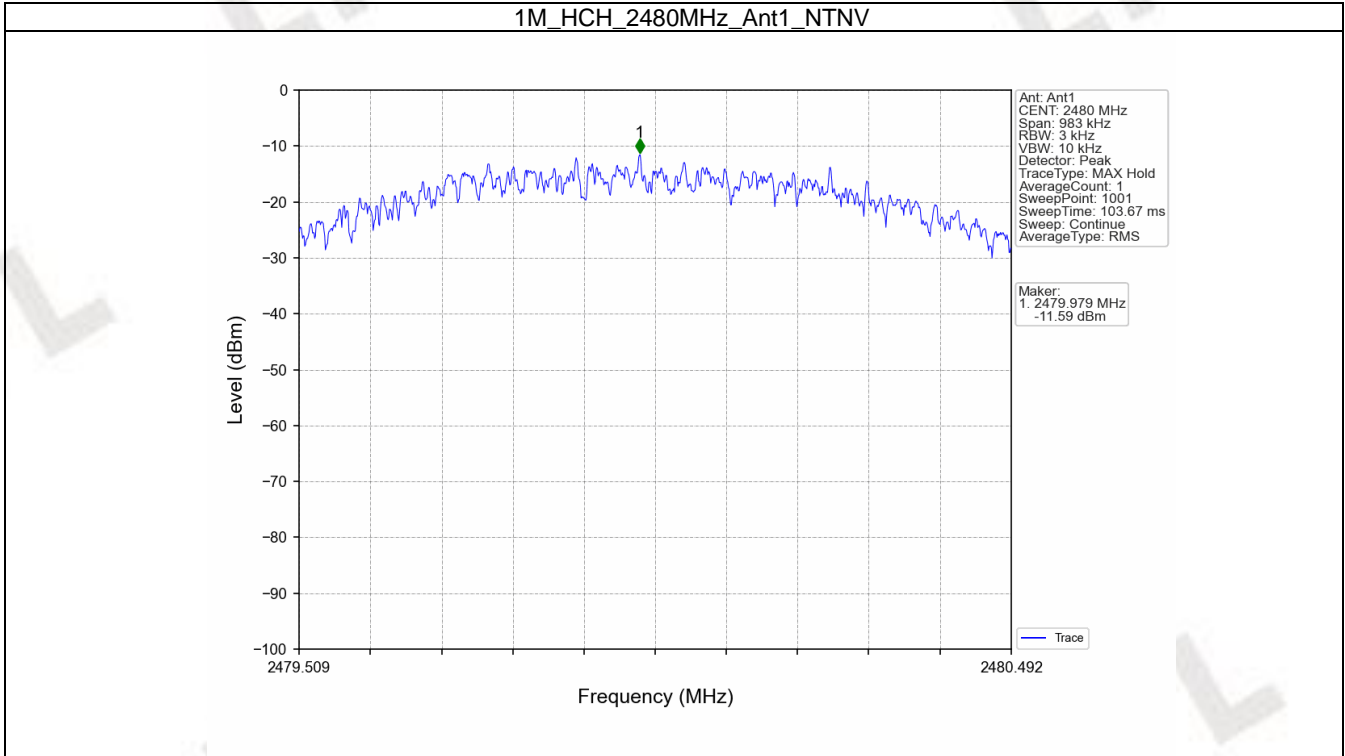
3.1.1 Test Result

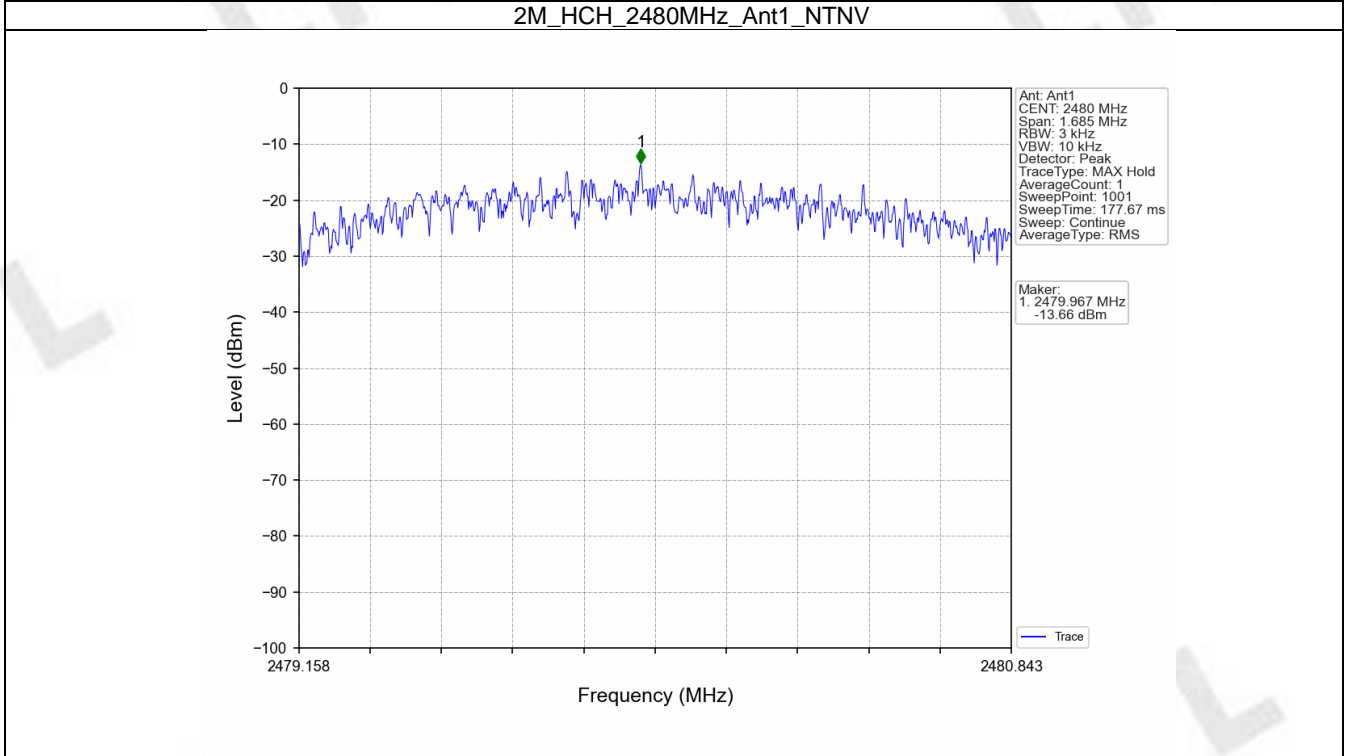
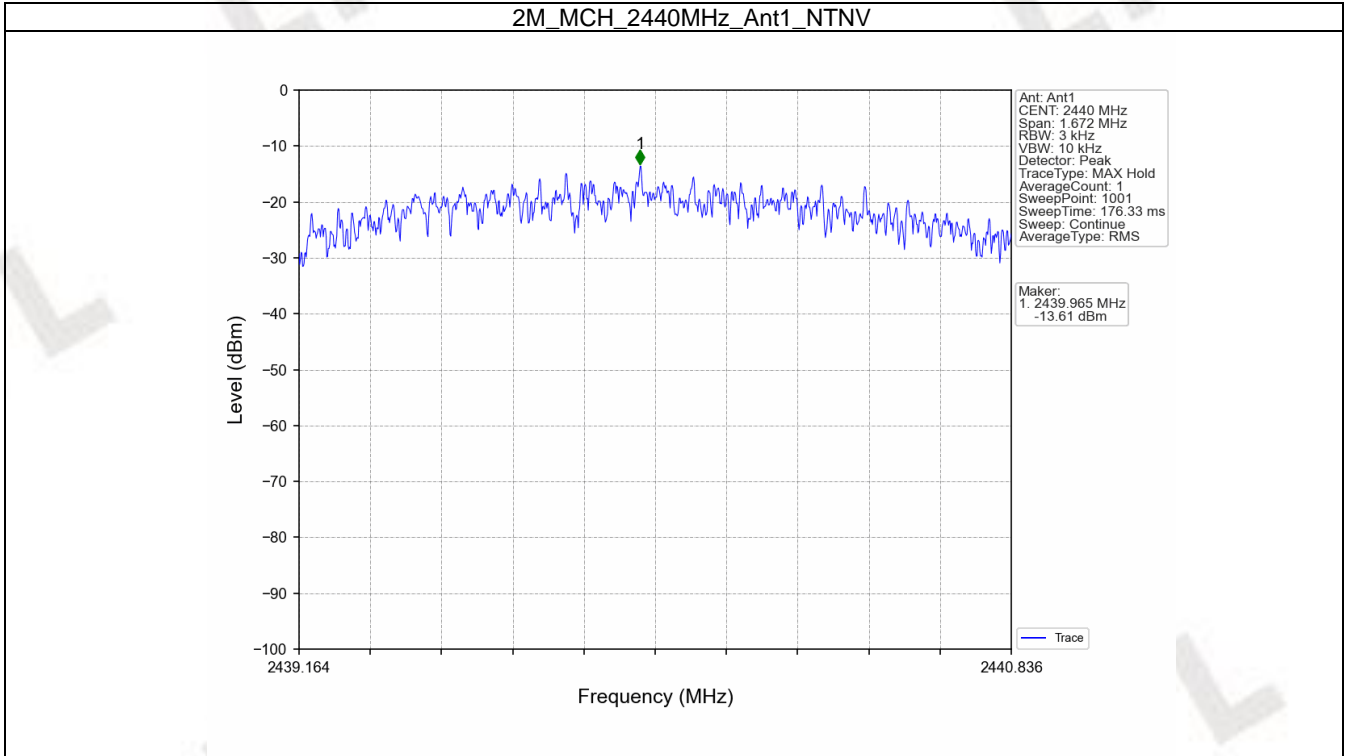
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-12.12	<=8	Pass
		2440	-11.90	<=8	Pass
		2480	-11.59	<=8	Pass
2M	SISO	2402	-14.22	<=8	Pass
		2440	-13.61	<=8	Pass
		2480	-13.66	<=8	Pass

Note1: Antenna Gain: Ant1: 4.16dBi;

3.1.2 Test Graph







4. Unwanted Emissions In Non-restricted Frequency Bands

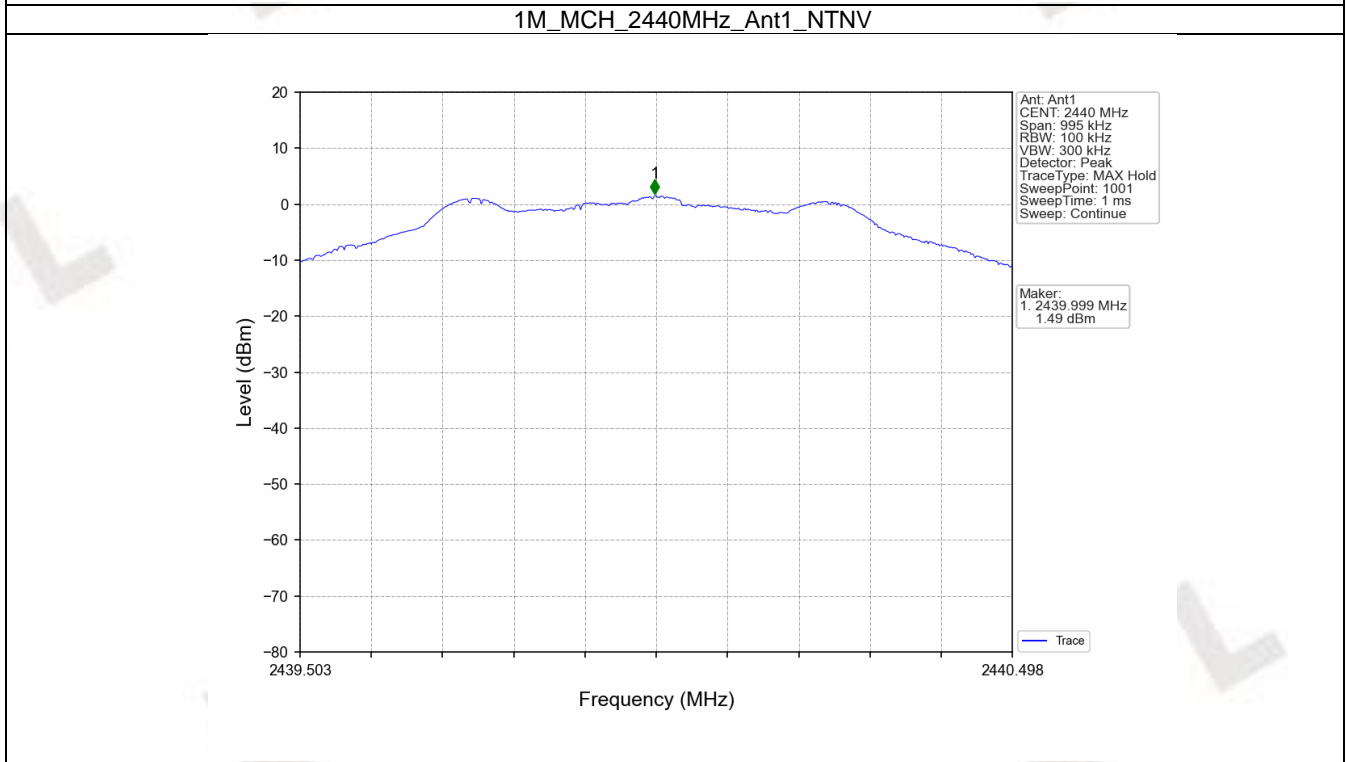
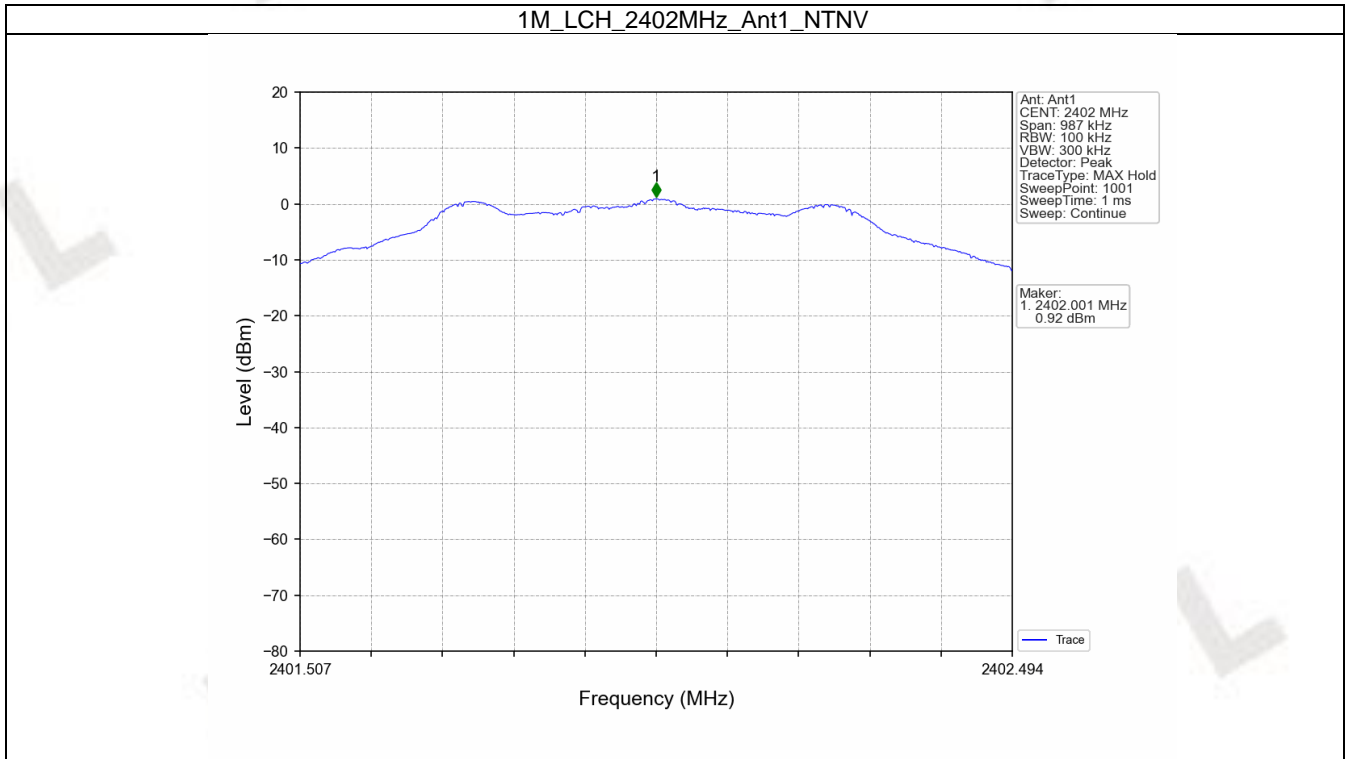
4.1 Ref

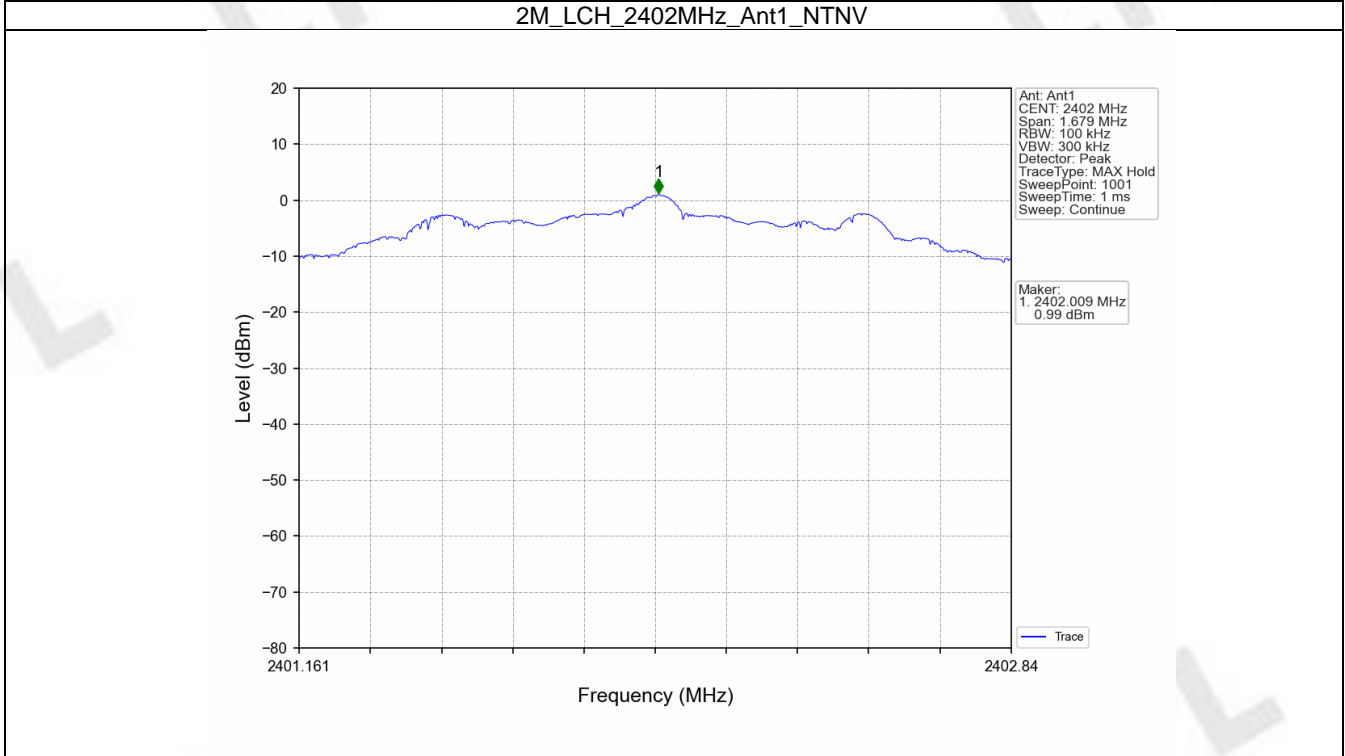
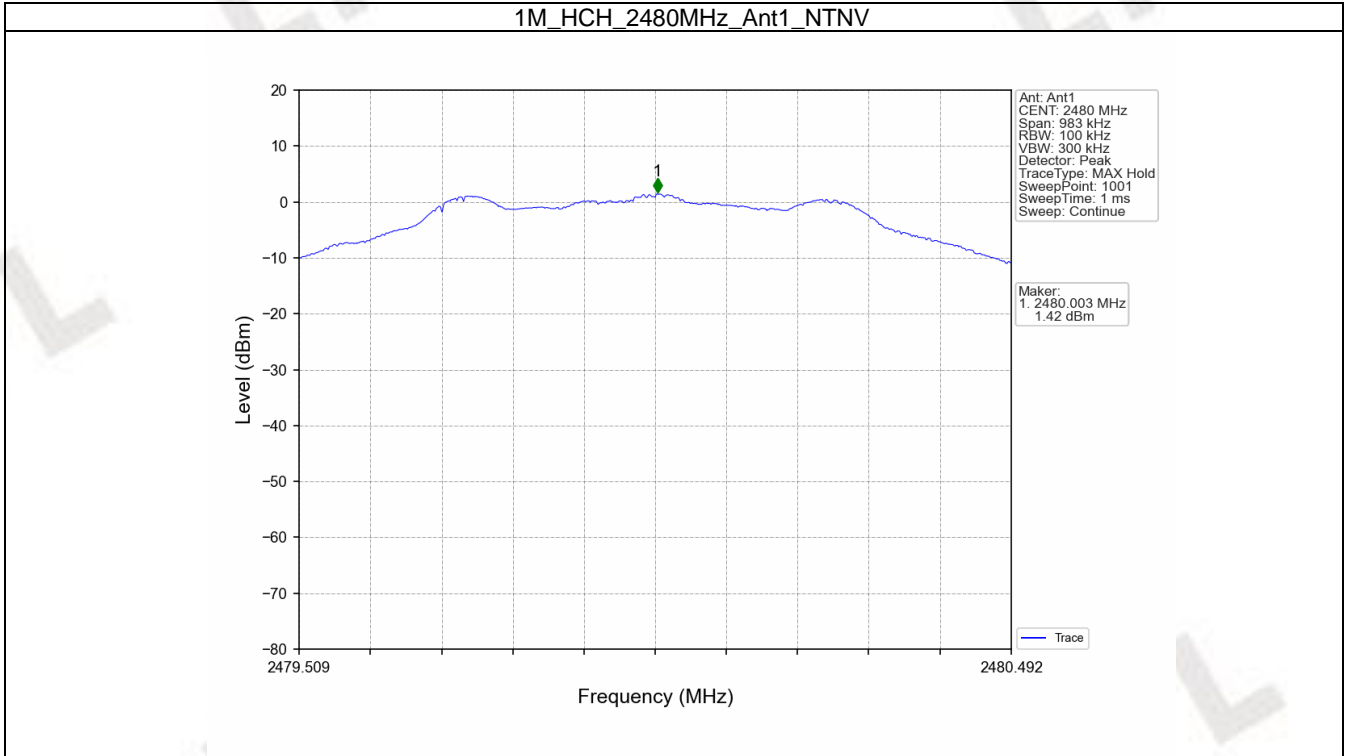
4.1.1 Test Result

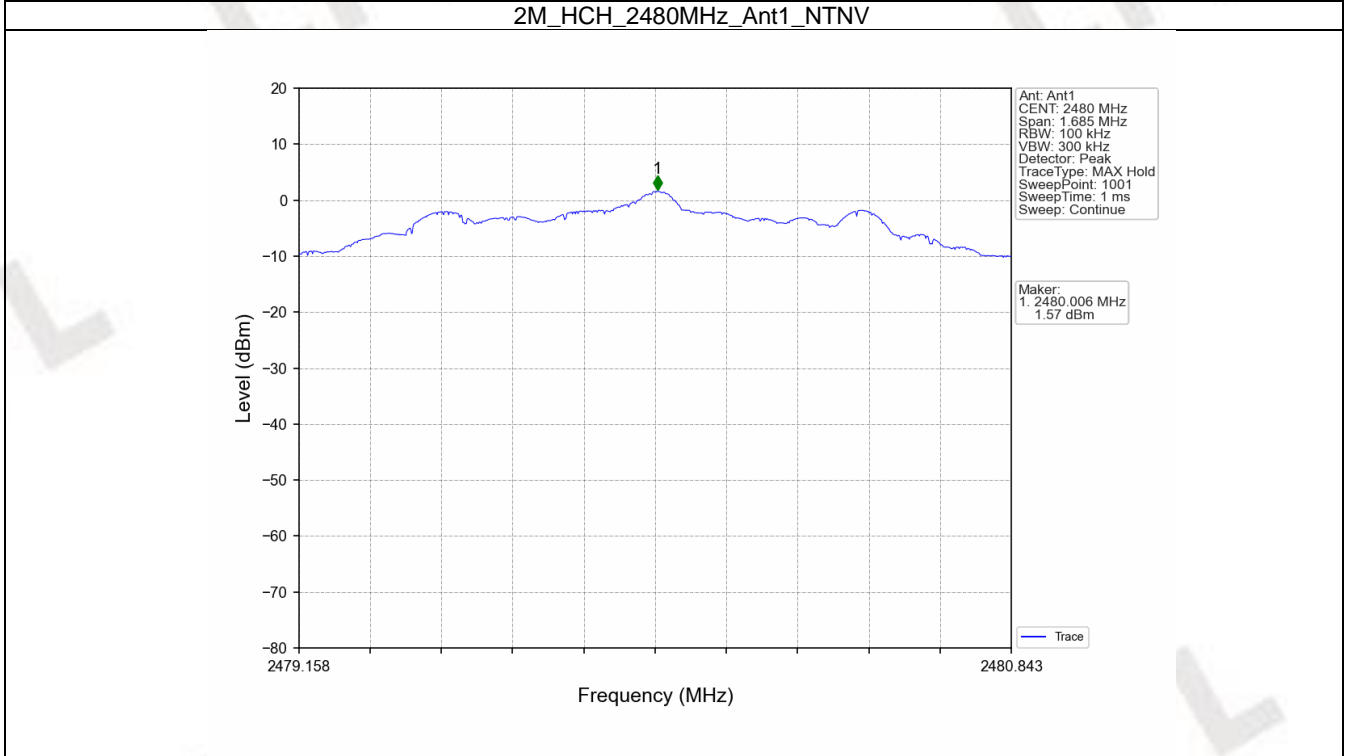
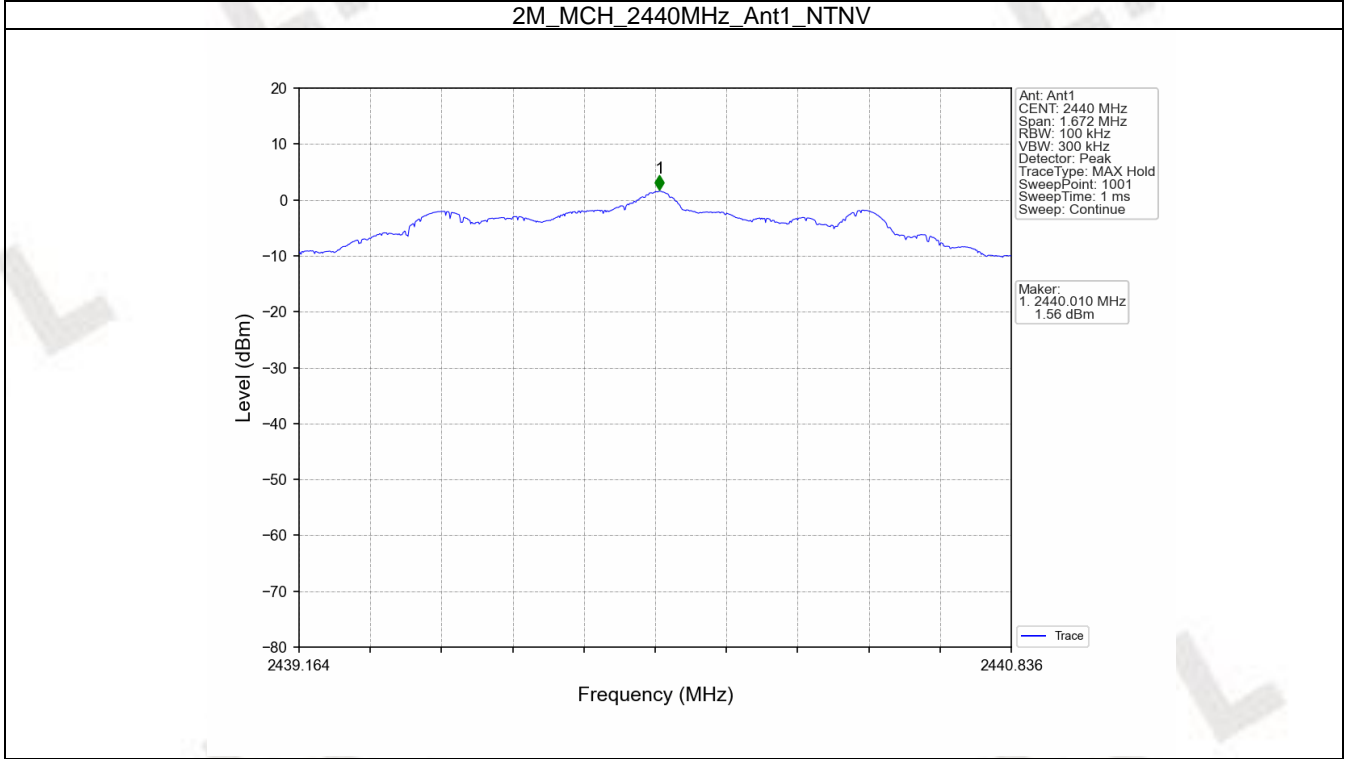
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.92
		2440	1	1.49
		2480	1	1.42
2M	SISO	2402	1	0.99
		2440	1	1.56
		2480	1	1.57

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 Test Graph







4.2 CSE

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.49	-18.51	Pass
		2440	1	1.49	-18.51	Pass
		2480	1	1.49	-18.51	Pass
2M	SISO	2402	1	1.57	-18.43	Pass
		2440	1	1.57	-18.43	Pass
		2480	1	1.57	-18.43	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.

4.2.2 Test Graph

