

Appendix: Bluetooth LE

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6. Form731 32

6.1 Test Result 32

6.1.1 Form731 32

1. Duty Cycle

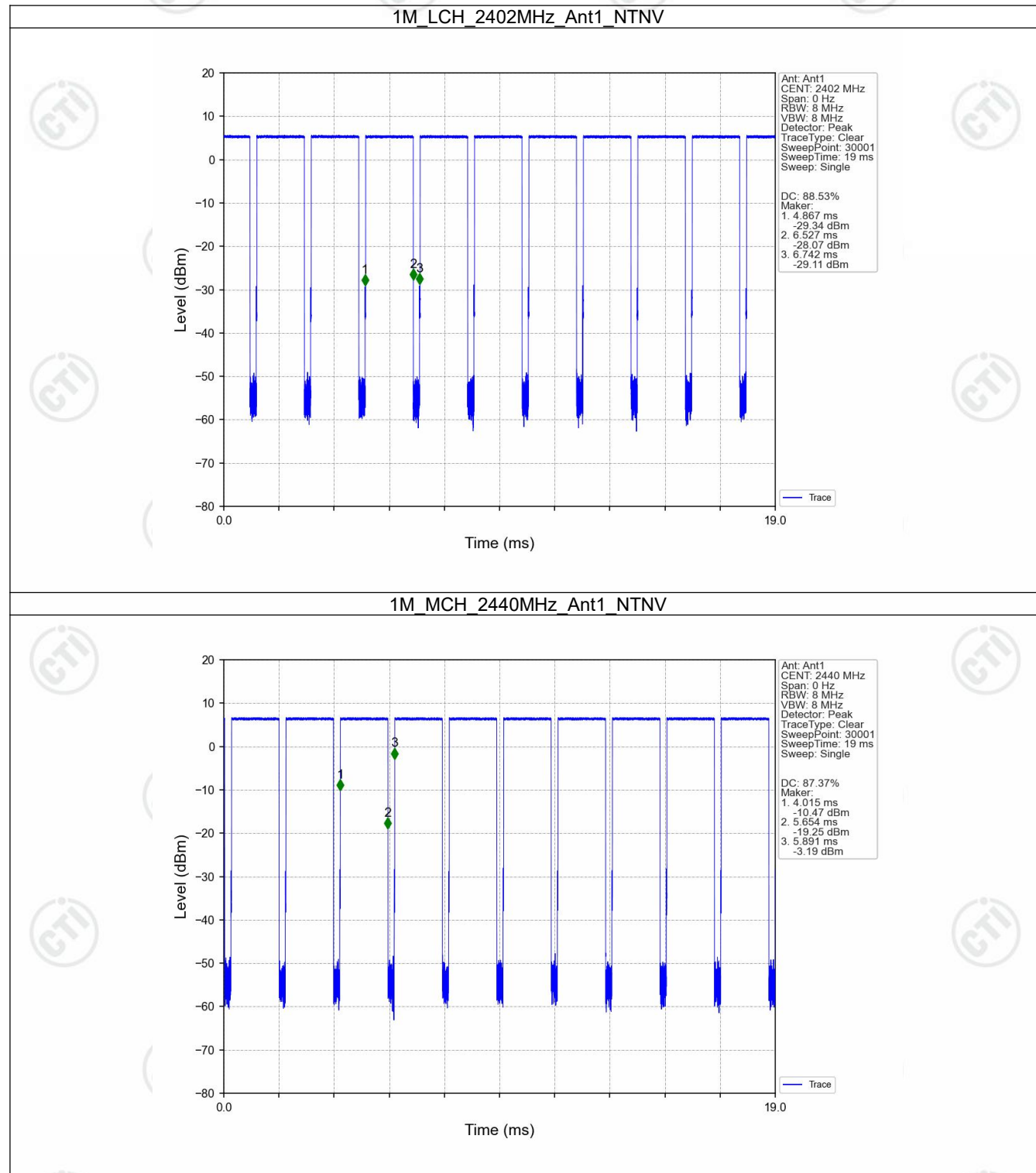
1.1 Test Result

1.1.1 Ant1

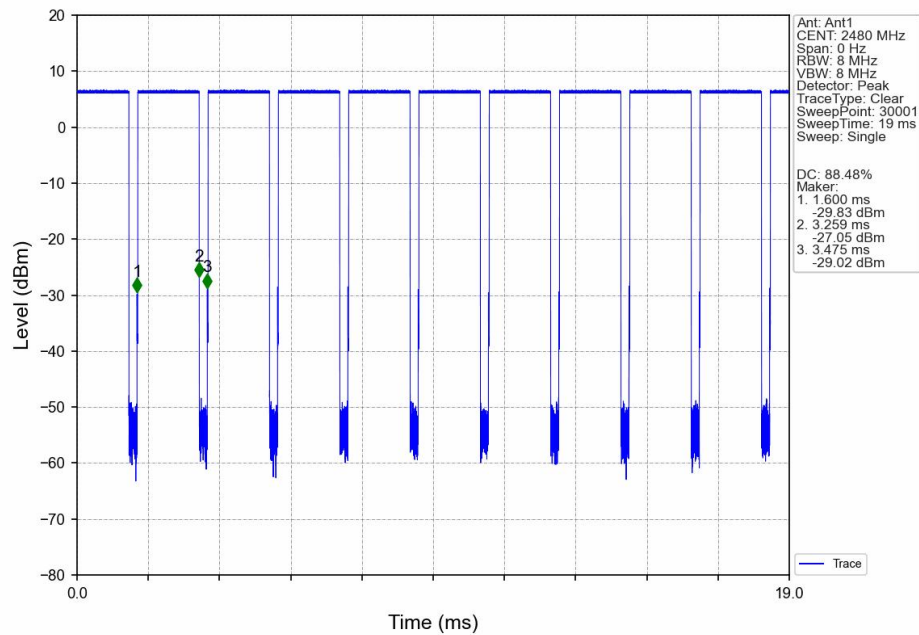
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	1.660	1.875	88.53	0.53	0.03
		2440	1.639	1.876	87.37	0.59	0.03
		2480	1.659	1.875	88.48	0.53	0.03
2M	SISO	2402	0.849	1.250	67.92	1.68	0.03
		2440	0.849	1.250	67.92	1.68	0.08
		2480	0.849	1.250	67.92	1.68	0.03

1.2 Test Graph

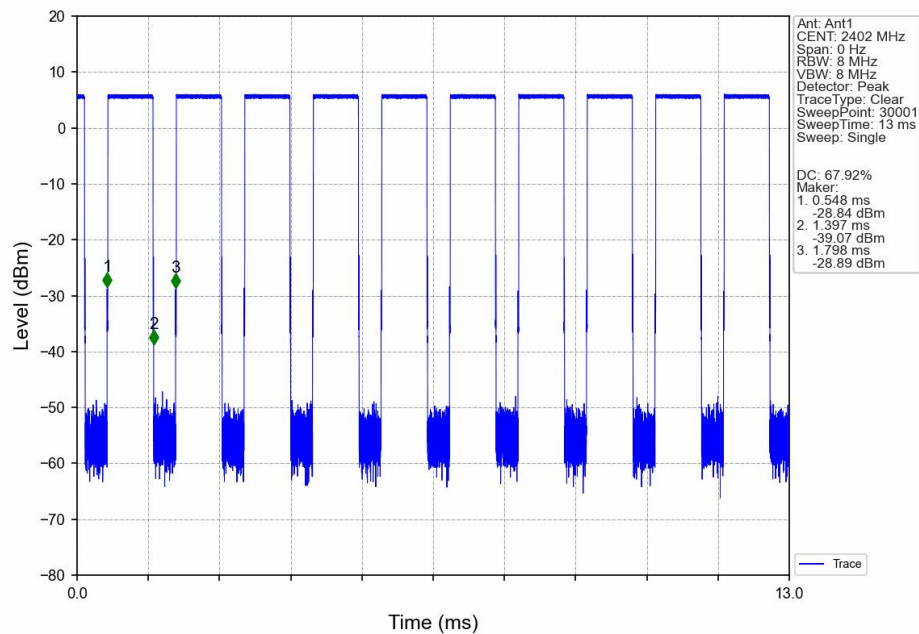
1.2.1 Ant1



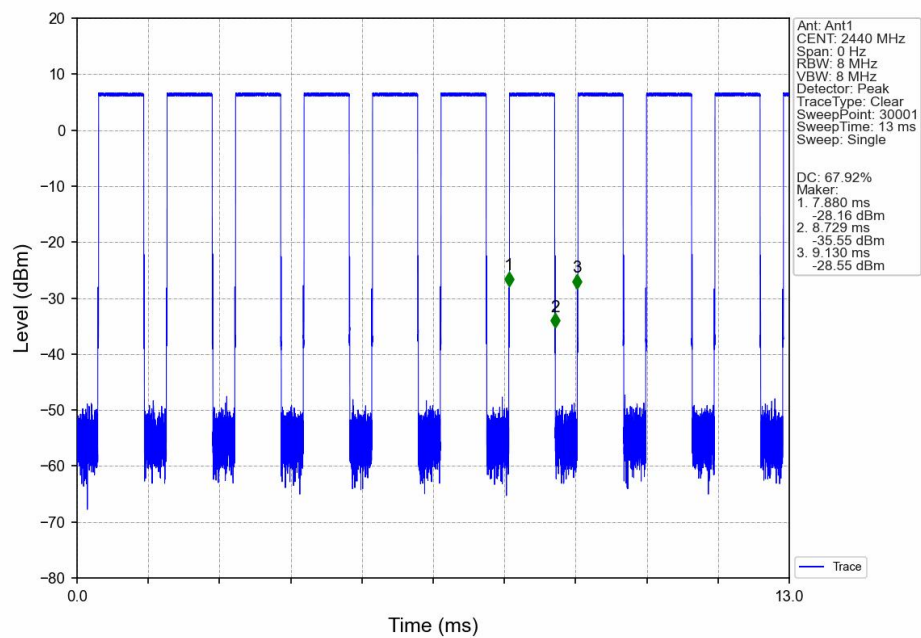
1M_HCH_2480MHz_Ant1_NTNV



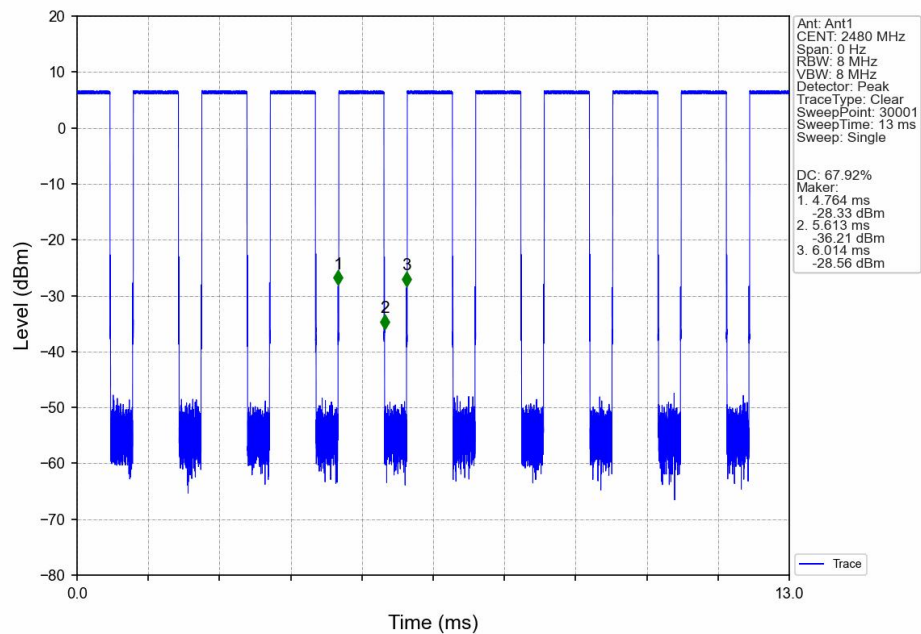
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

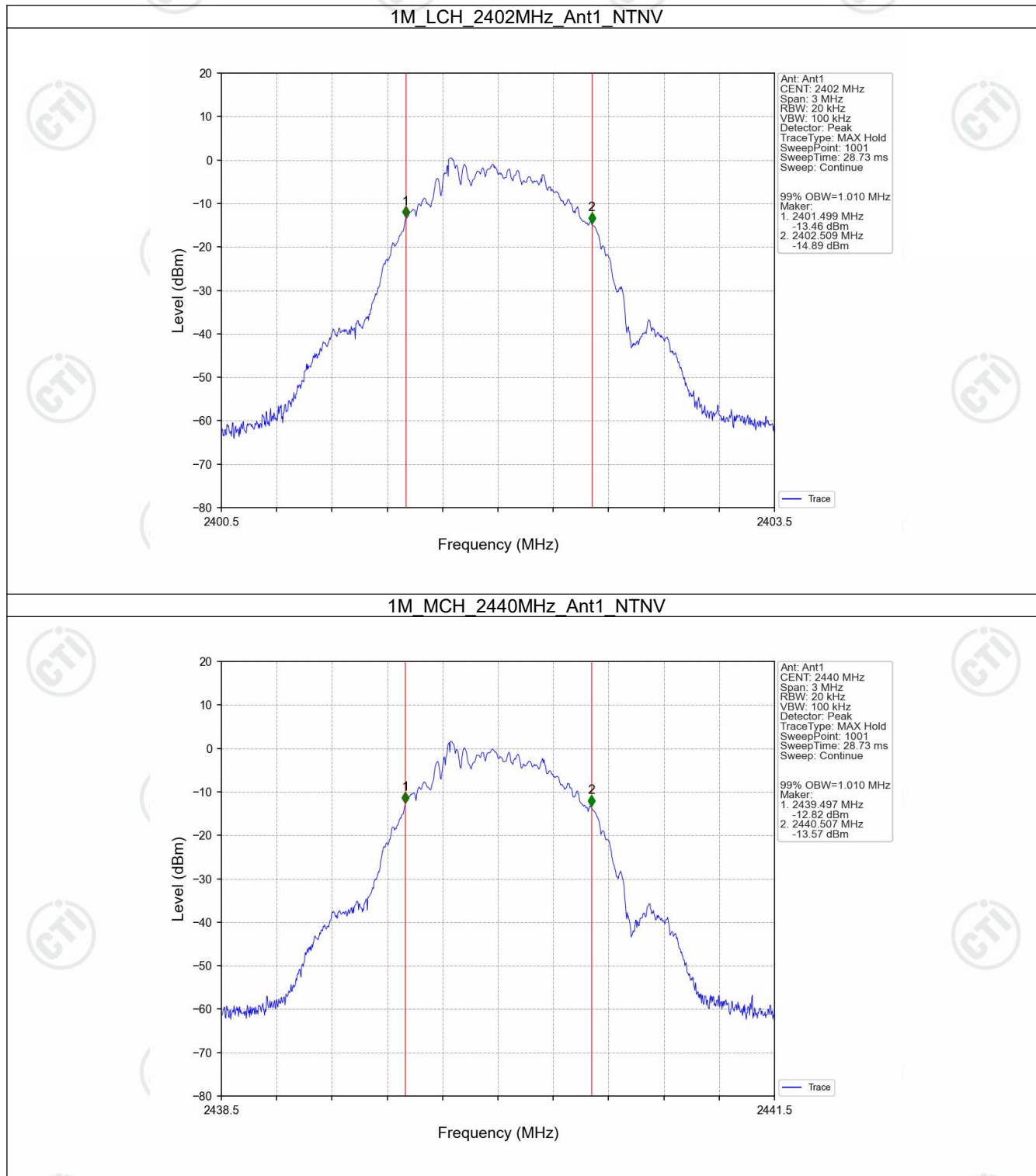
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.010	/	Pass
		2440	1	1.010	/	Pass
		2480	1	1.009	/	Pass
2M	SISO	2402	1	2.012	/	Pass
		2440	1	2.009	/	Pass
		2480	1	2.012	/	Pass

2.1.2 6dB BW

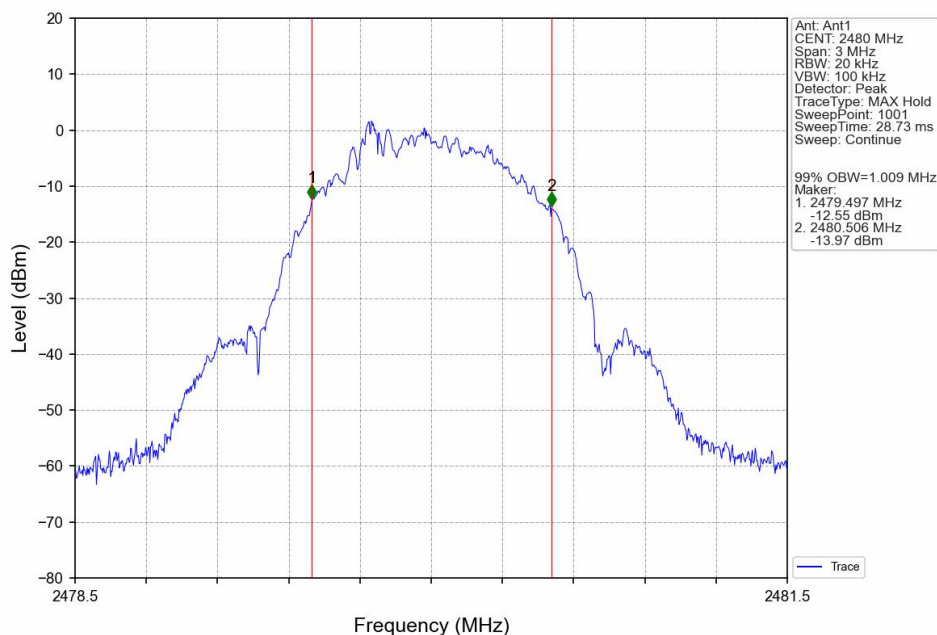
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.667	≥ 0.5	Pass
		2440	1	0.666	≥ 0.5	Pass
		2480	1	0.669	≥ 0.5	Pass
2M	SISO	2402	1	1.182	≥ 0.5	Pass
		2440	1	1.167	≥ 0.5	Pass
		2480	1	1.195	≥ 0.5	Pass

2.2 Test Graph

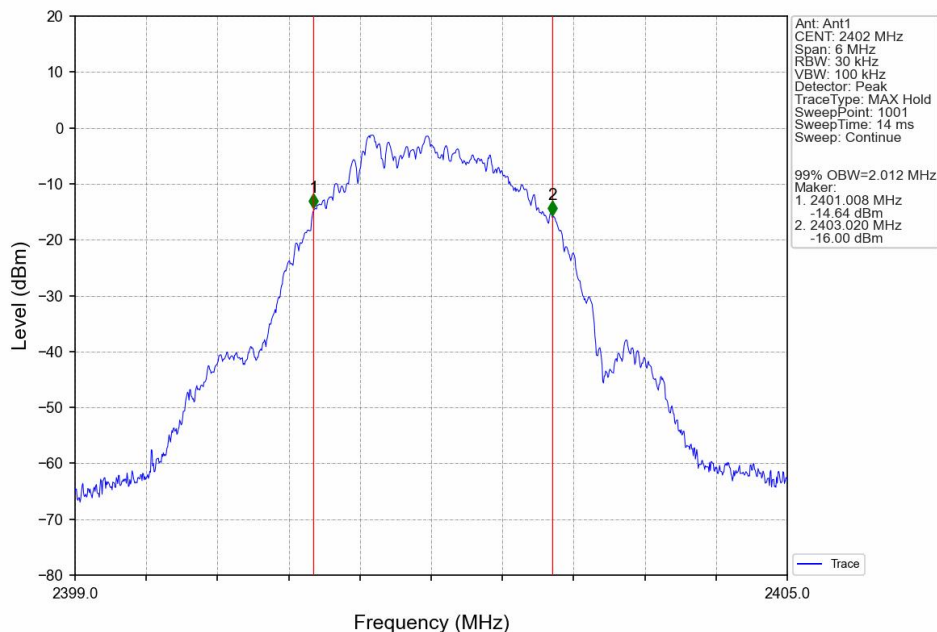
2.2.1 OBW



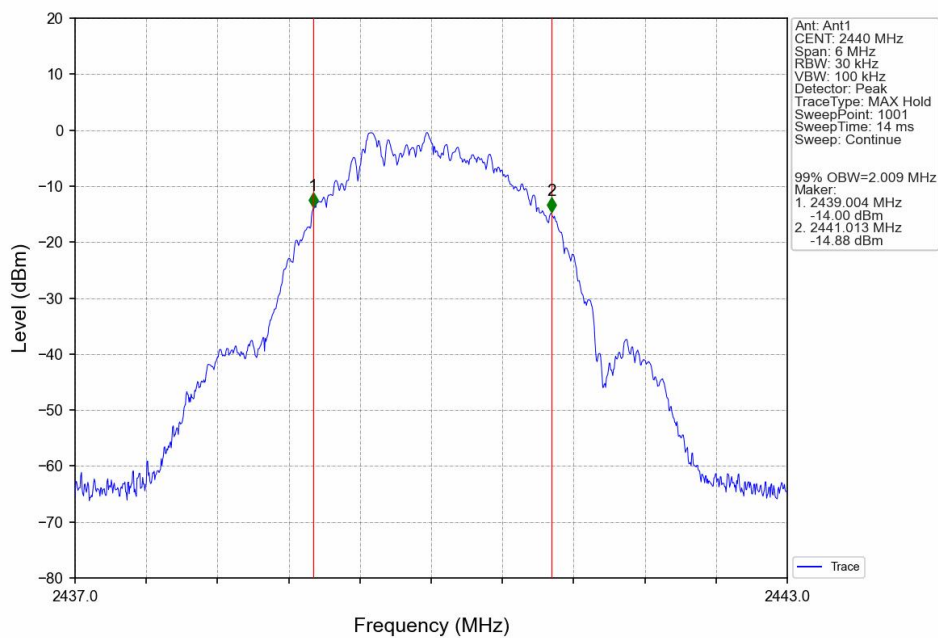
1M_HCH_2480MHz_Ant1_NTNV



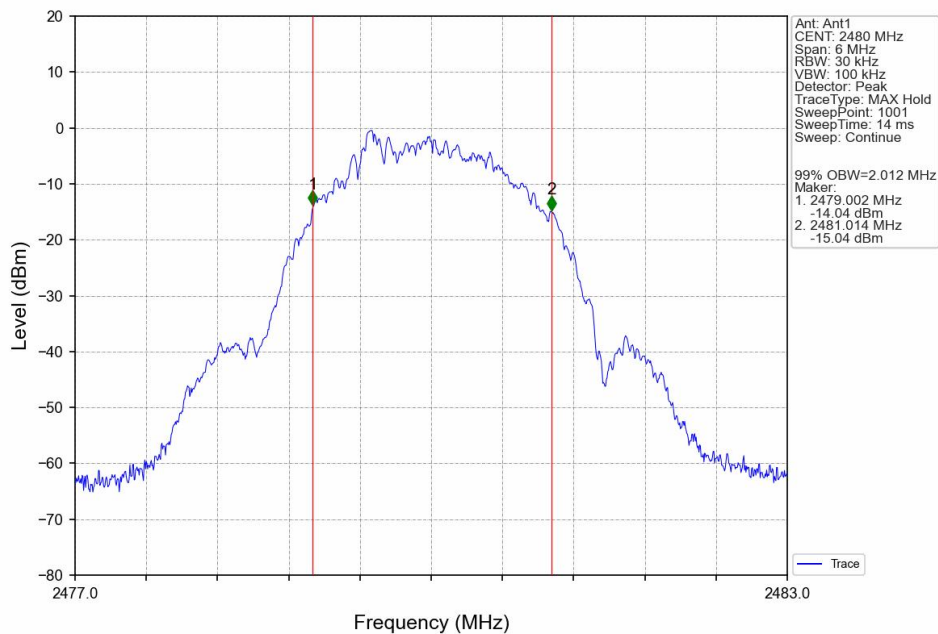
2M_LCH_2402MHz_Ant1_NTNV



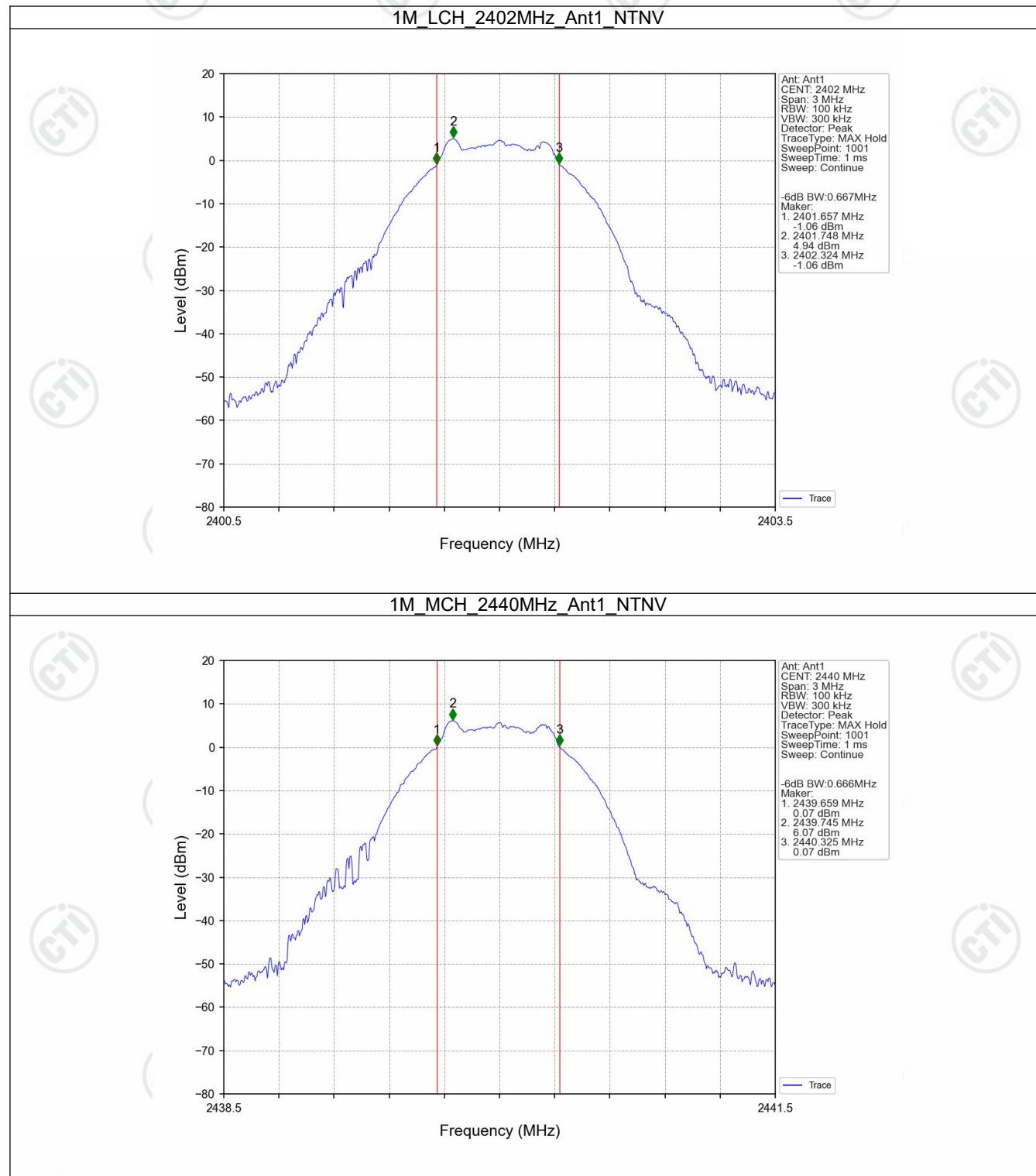
2M_MCH_2440MHz_Ant1_NTNV



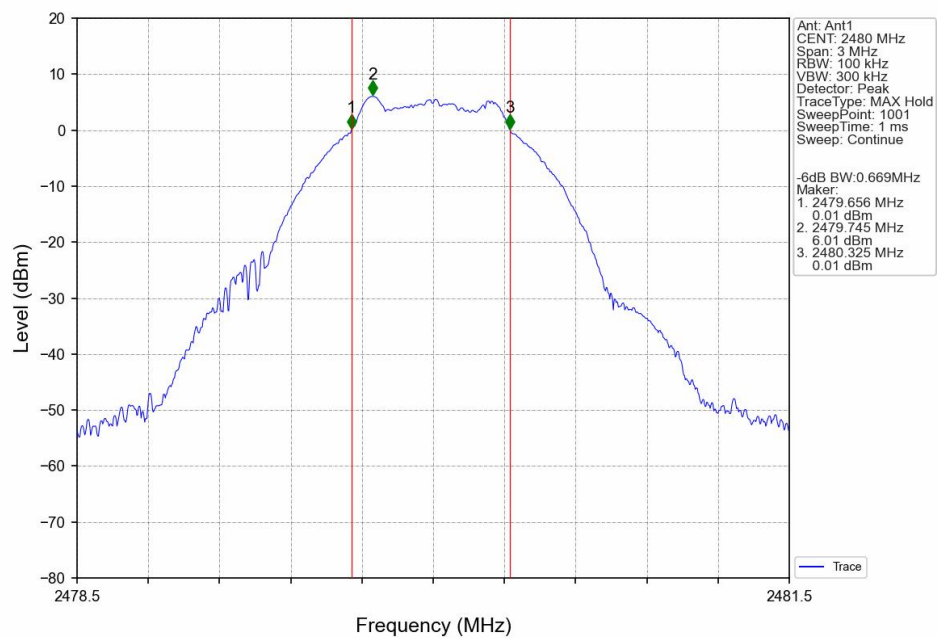
2M_HCH_2480MHz_Ant1_NTNV



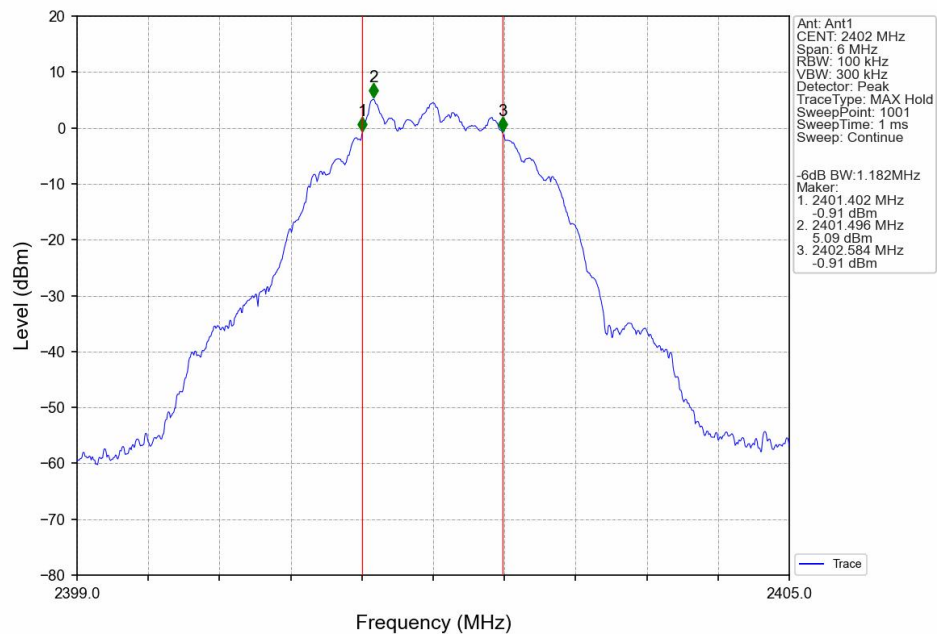
2.2.2 6dB BW



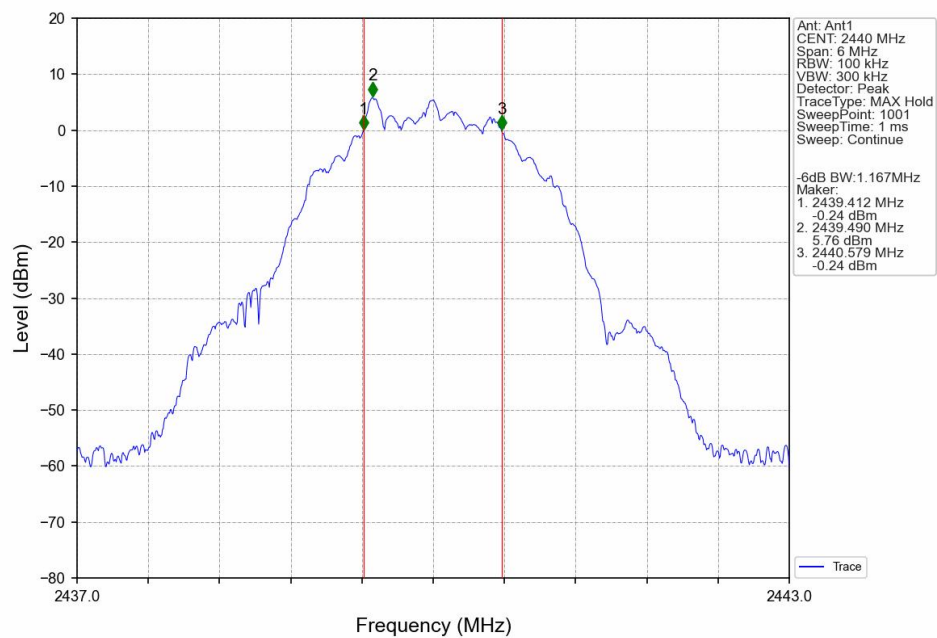
1M_HCH_2480MHz_Ant1_NTNV



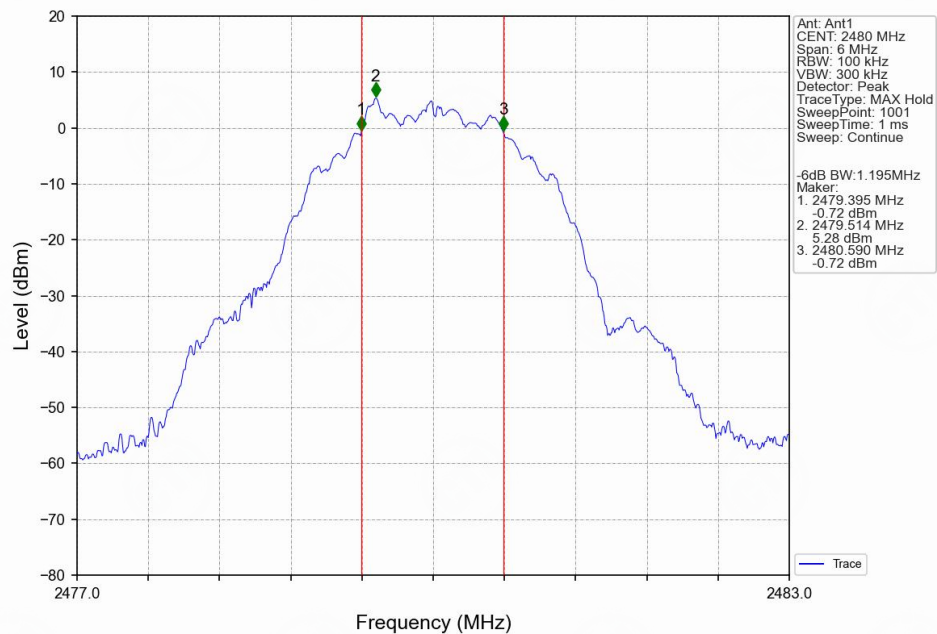
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

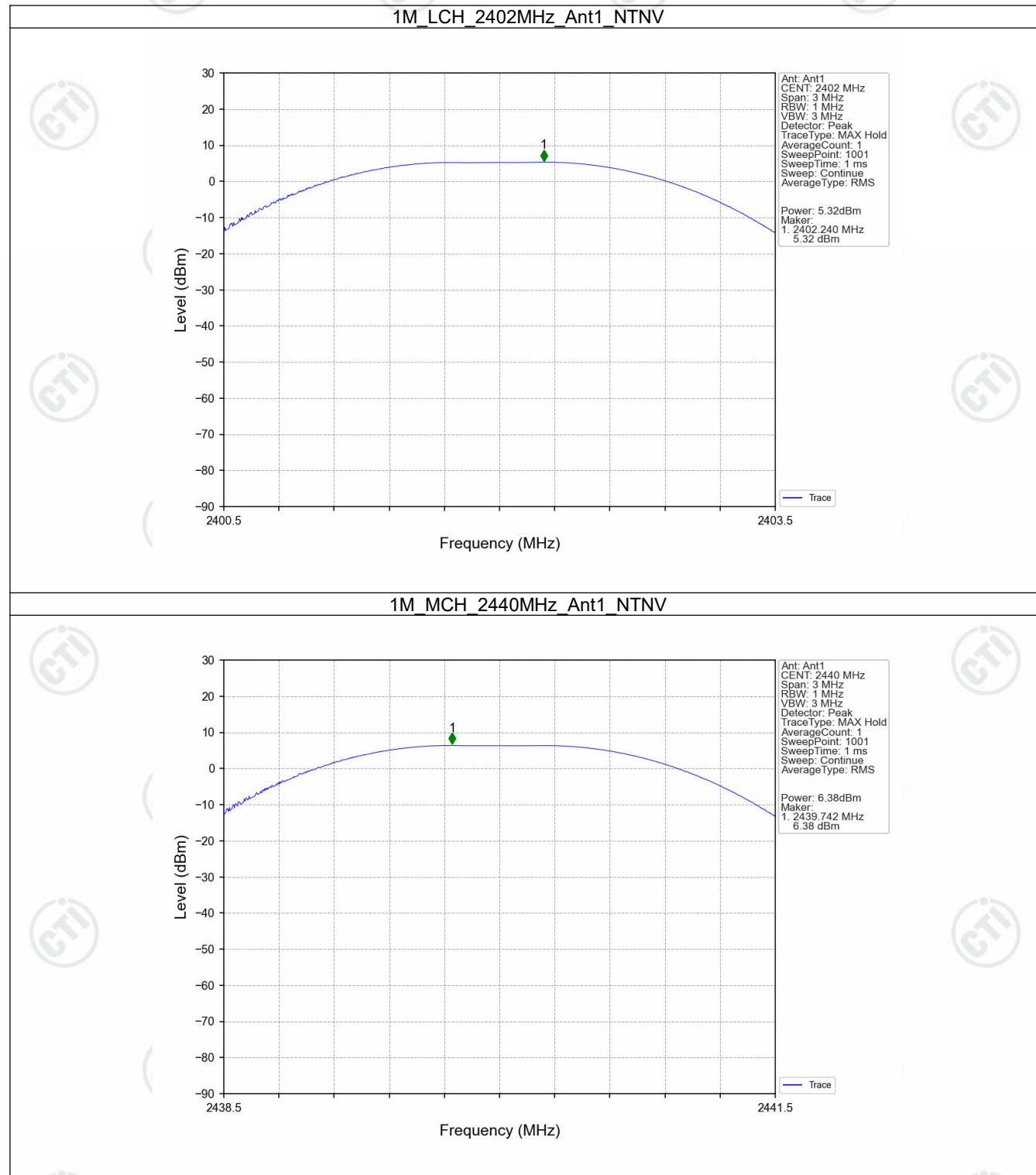
3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.32	<=30	Pass
		2440	6.38	<=30	Pass
		2480	6.37	<=30	Pass
2M	SISO	2402	5.79	<=30	Pass
		2440	6.40	<=30	Pass
		2480	6.42	<=30	Pass

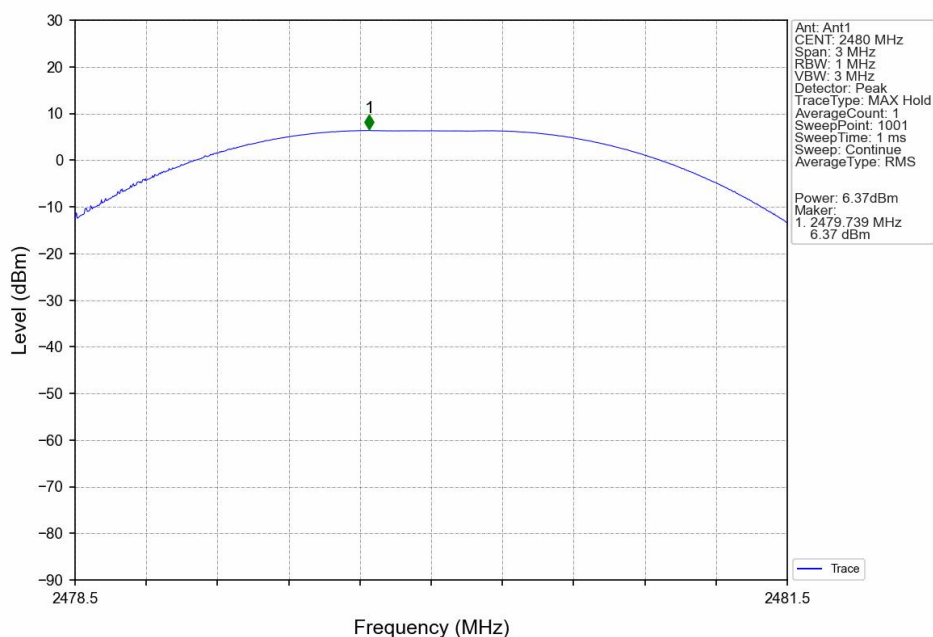
Note1: Antenna Gain: Ant1: 1.12dBi;

3.2 Test Graph

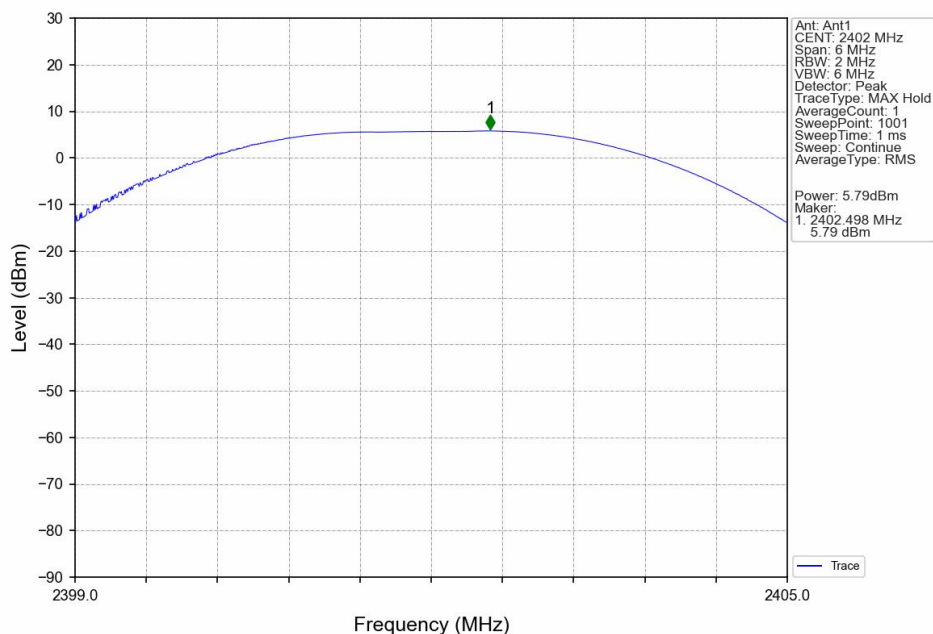
3.2.1 Power



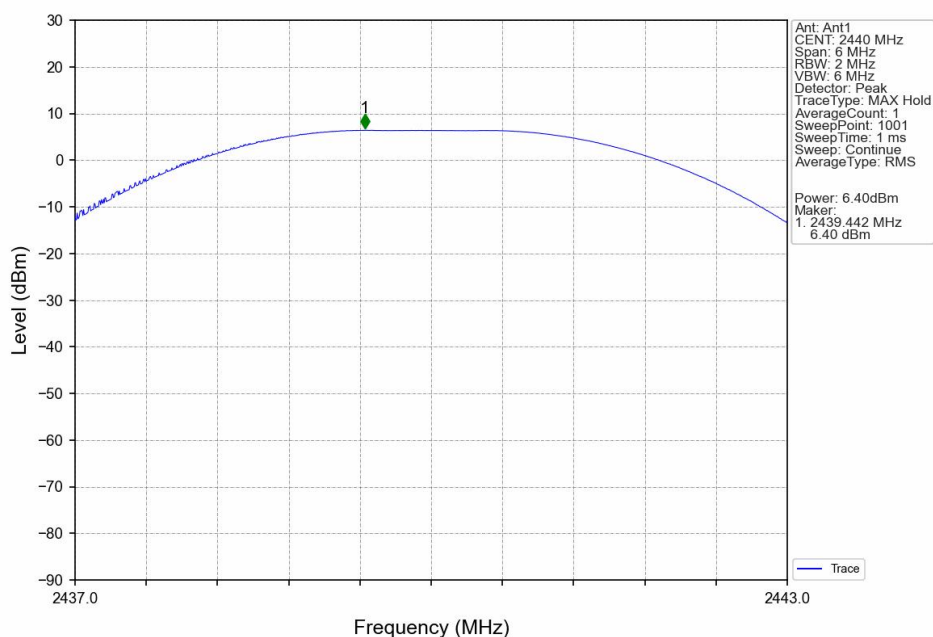
1M_HCH_2480MHz_Ant1_NTNV



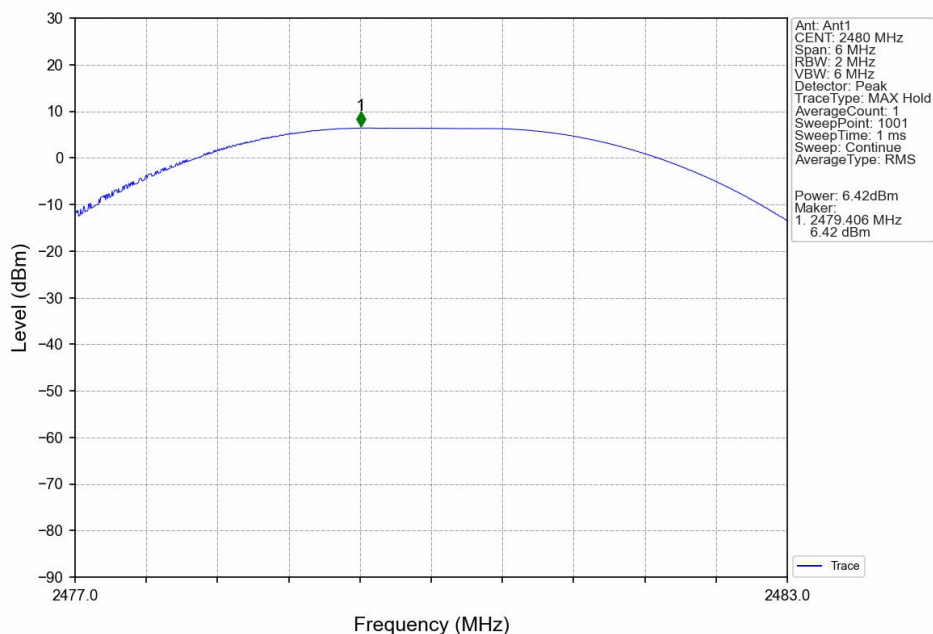
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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	-9.99	<=8	Pass
		2440	-9.18	<=8	Pass
		2480	-9.39	<=8	Pass
2M	SISO	2402	-12.99	<=8	Pass
		2440	-12.66	<=8	Pass
		2480	-12.56	<=8	Pass

Note1: Antenna Gain: Ant1: 1.12dBi;