

Appendix A for KSCR220300033101

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	0.396	0.625	63.36	1.98	0.03
		2440	0.396	0.625	63.36	1.98	0.04
		2480	0.396	0.625	63.36	1.98	0.03
2M	SISO	2402	0.210	0.626	33.55	4.74	0.01
		2440	0.210	0.625	33.60	4.74	0.03
		2480	0.210	0.625	33.60	4.74	0.00

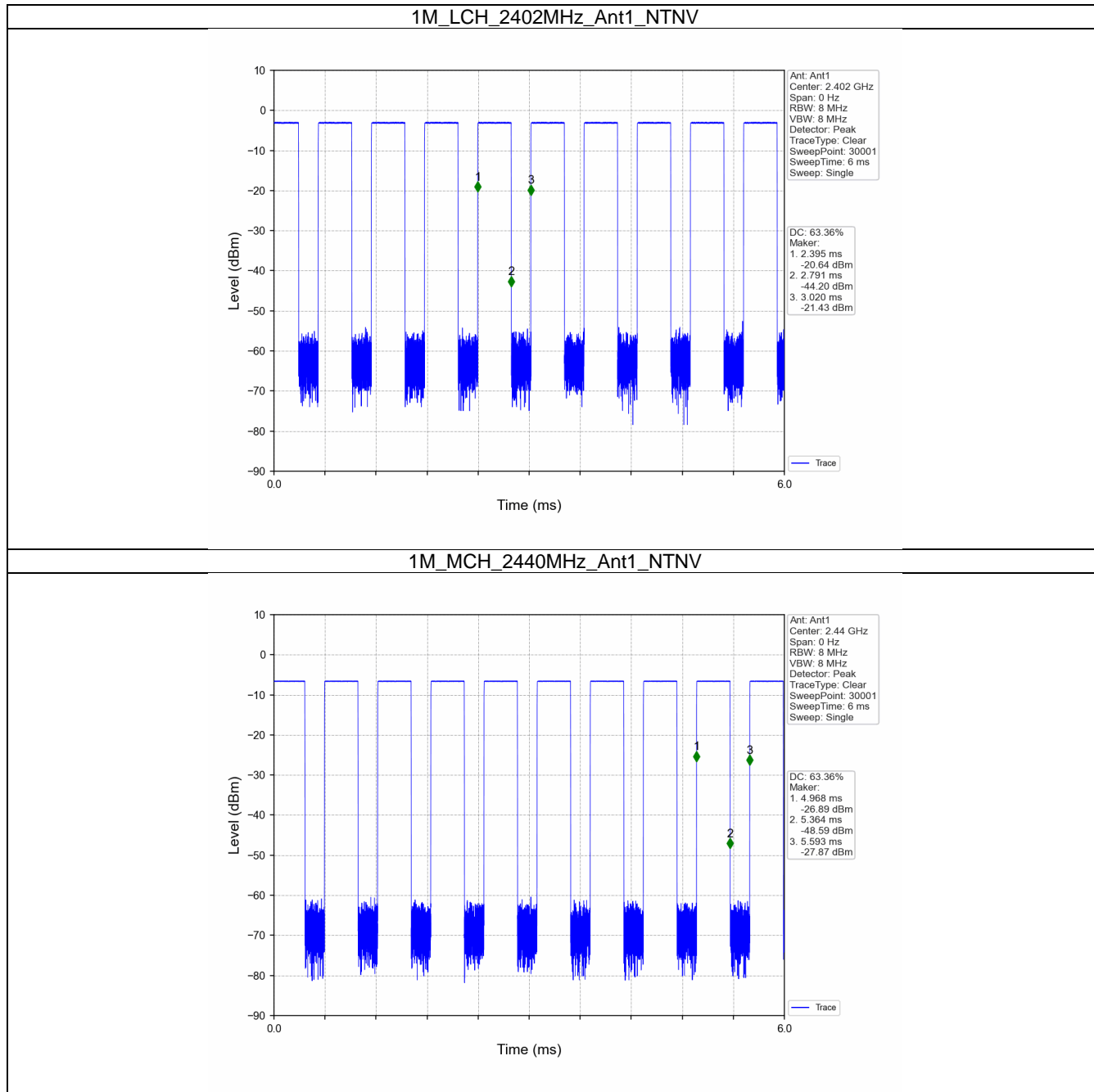


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1.1.2 Test Graph

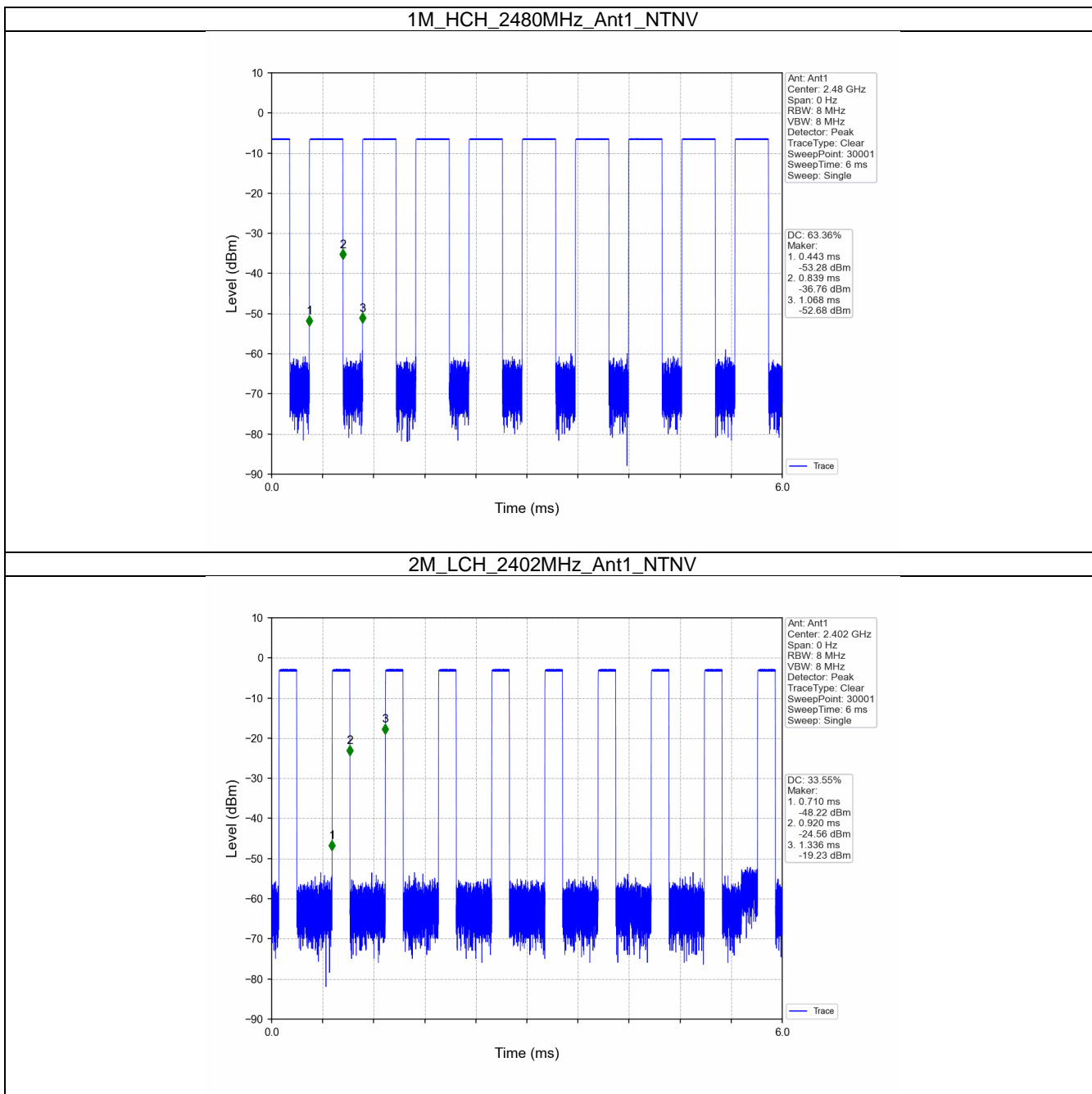


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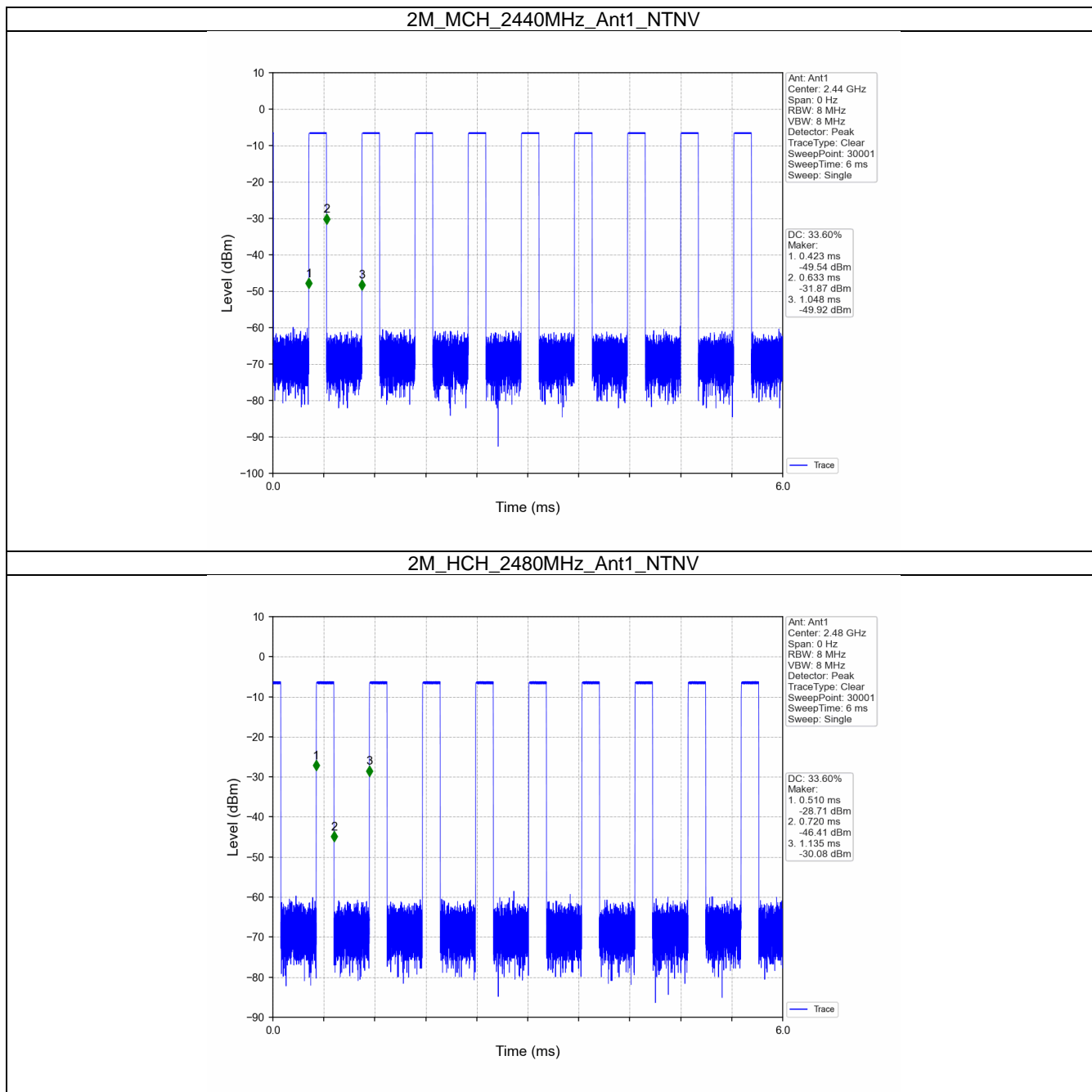


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

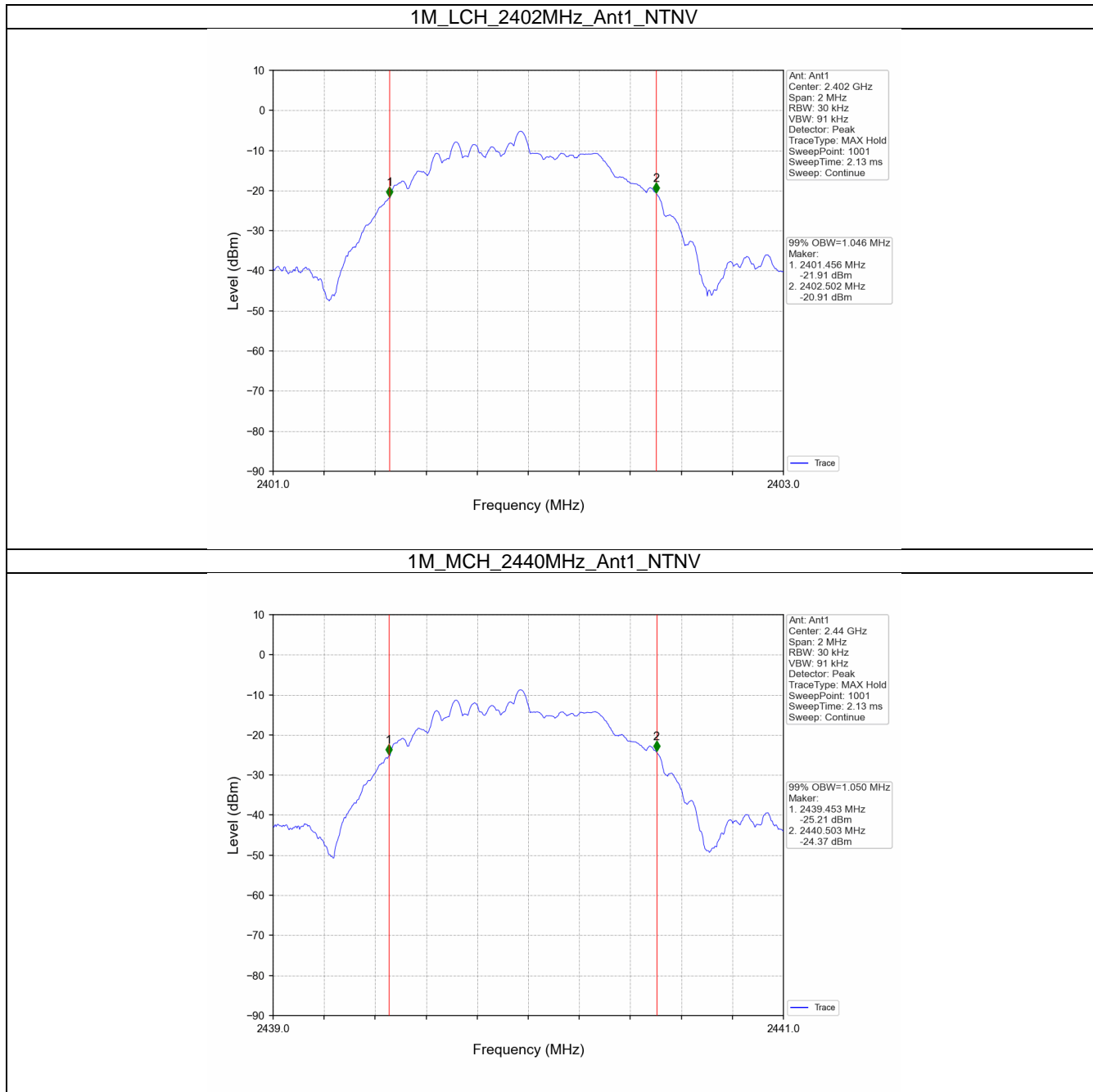
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.046	Pass
		2440	1	1.050	Pass
		2480	1	1.051	Pass
2M	SISO	2402	1	2.068	Pass
		2440	1	2.074	Pass
		2480	1	2.080	Pass



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2.1.2 Test Graph

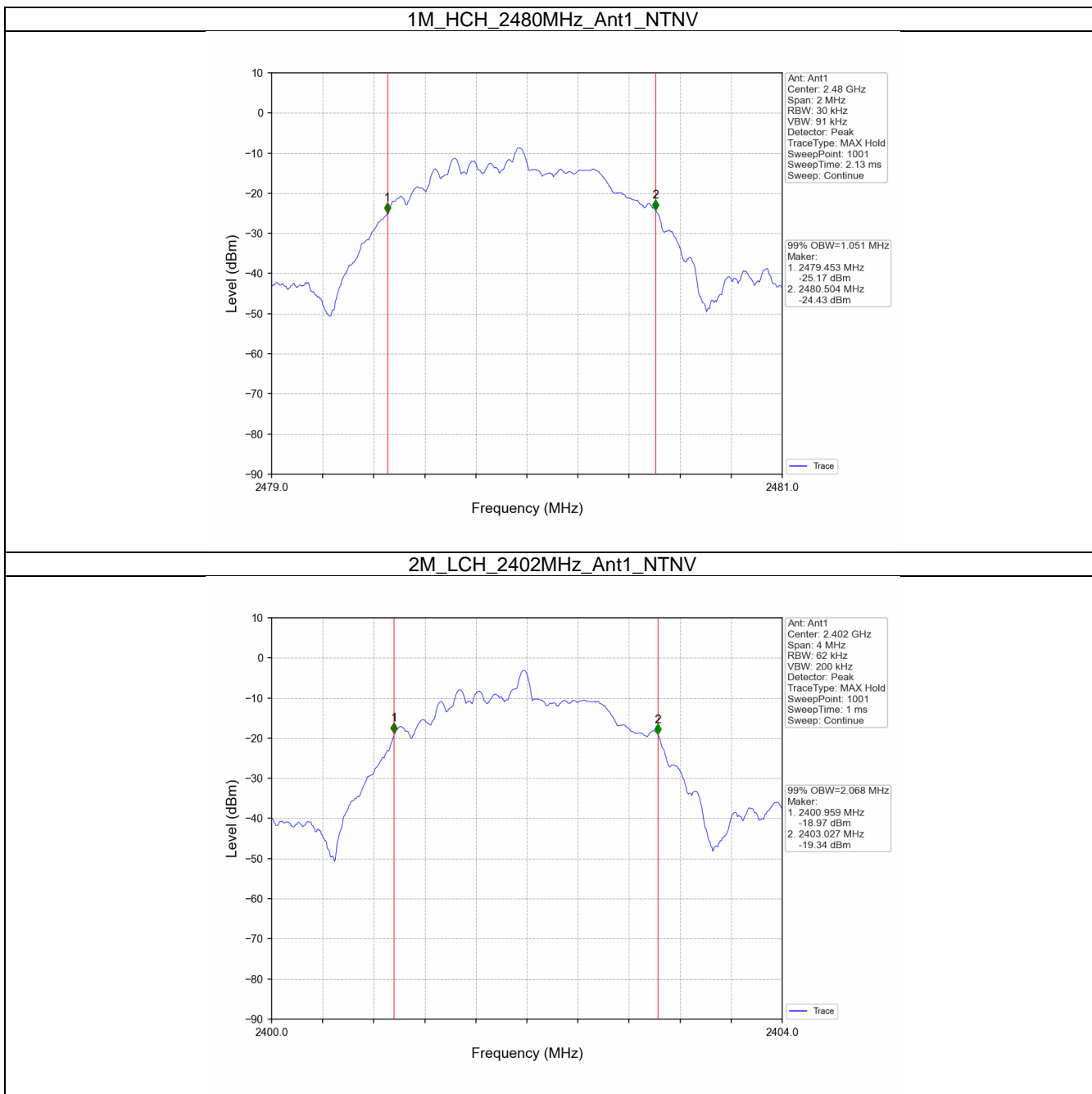


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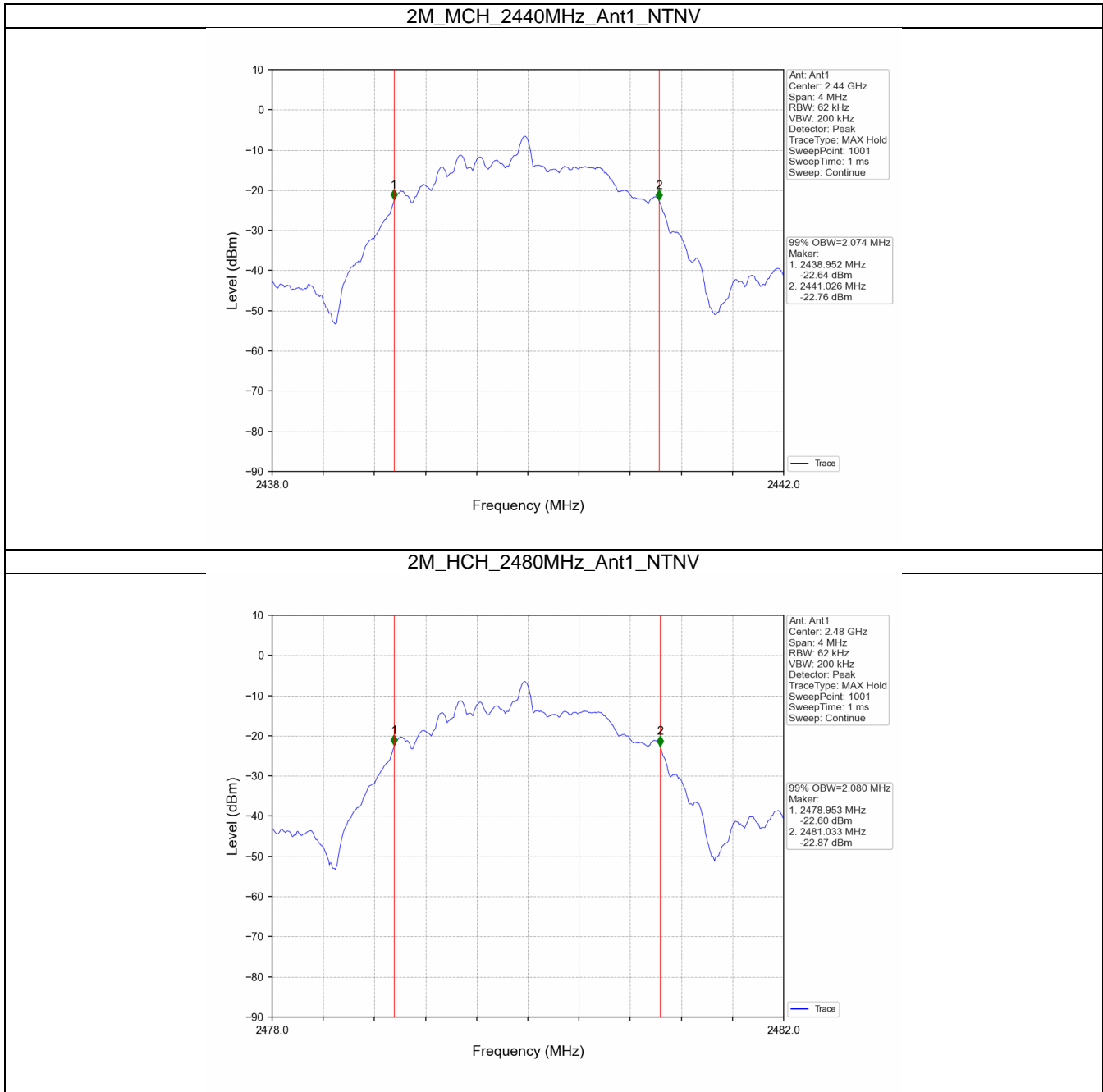


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2.2 6dB BW

2.2.1 Test Result

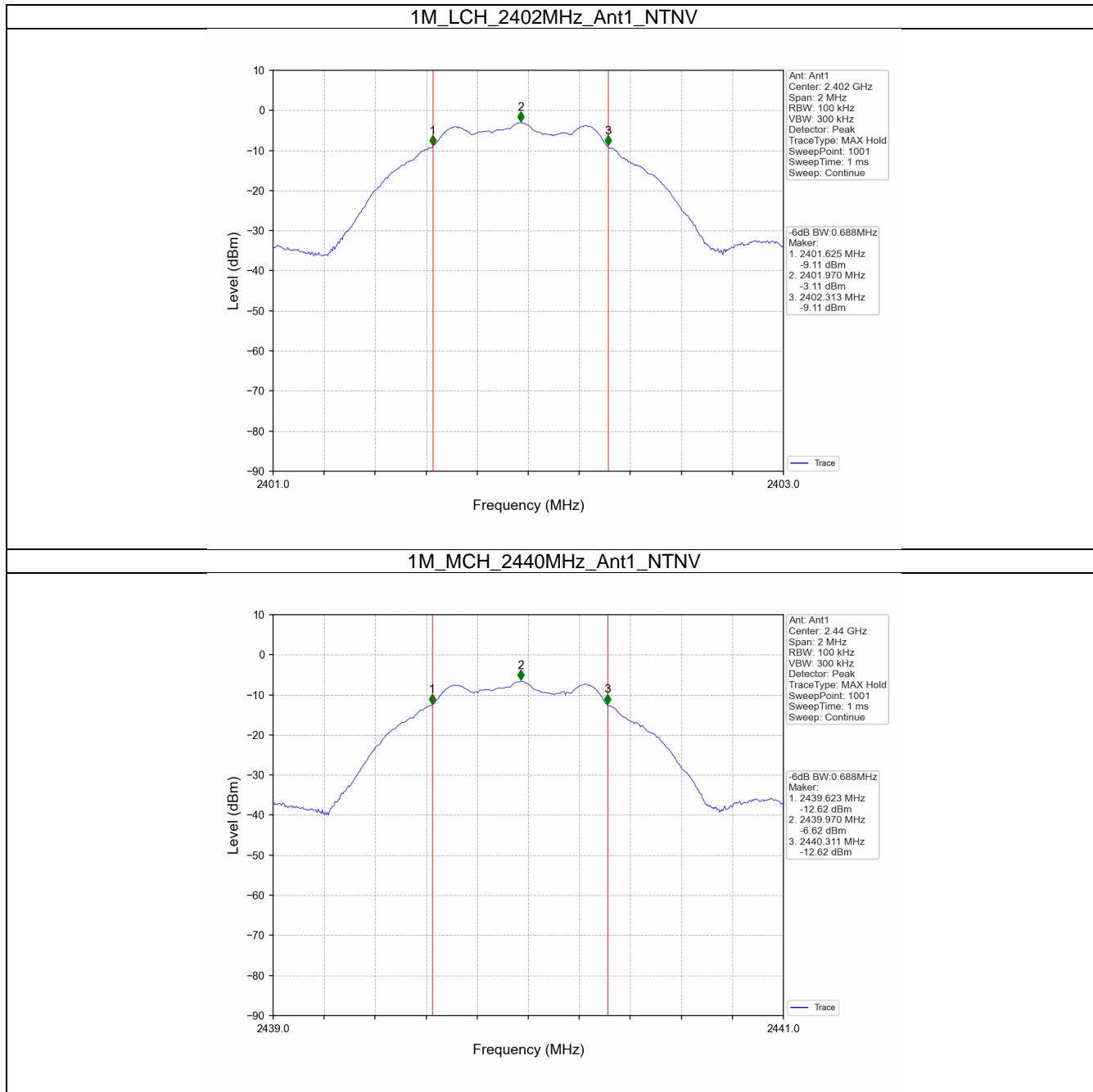
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.688	>=0.5	Pass
		2440	1	0.688	>=0.5	Pass
		2480	1	0.697	>=0.5	Pass
2M	SISO	2402	1	1.140	>=0.5	Pass
		2440	1	1.145	>=0.5	Pass
		2480	1	1.135	>=0.5	Pass



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2.2.2 Test Graph

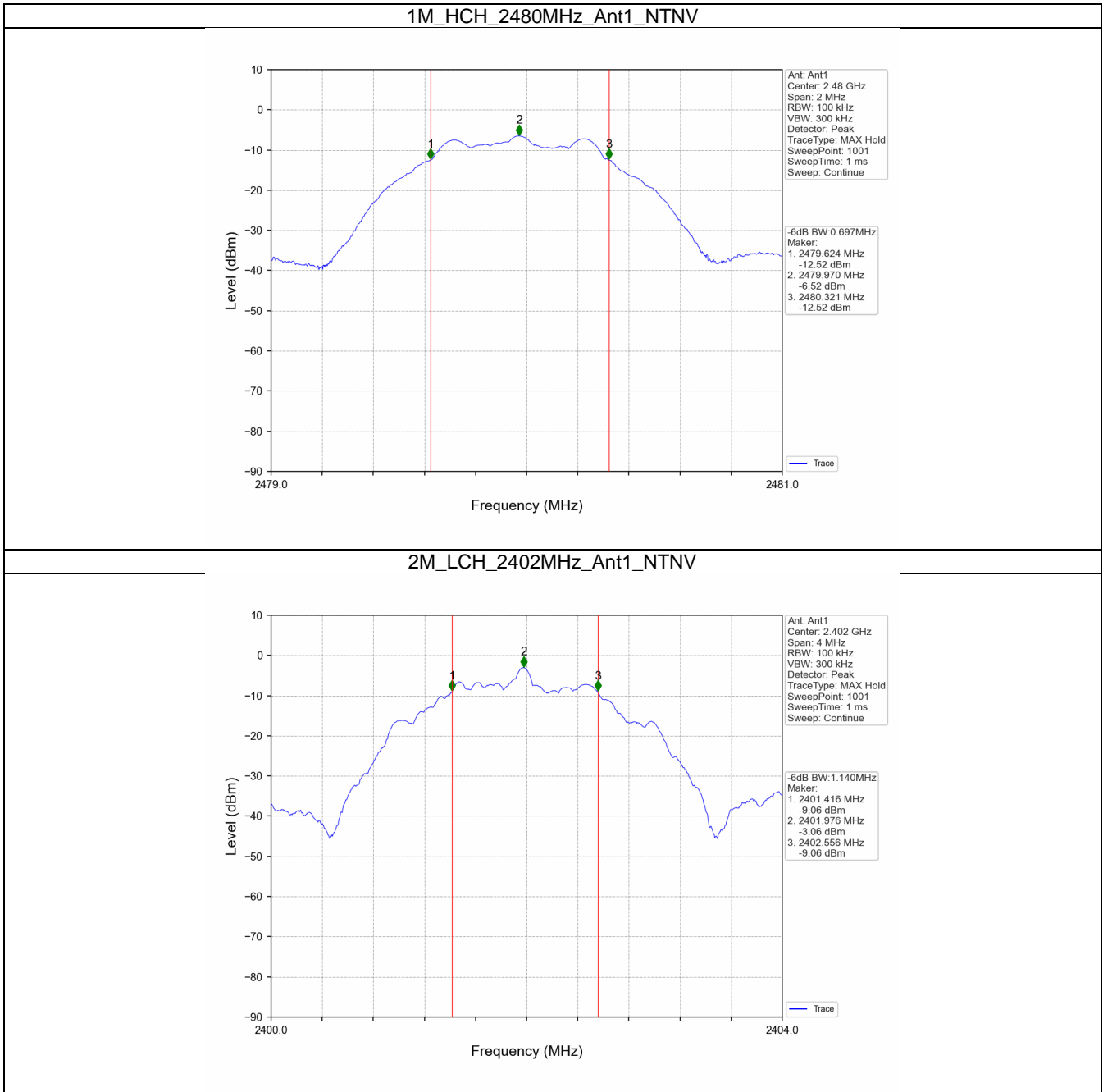


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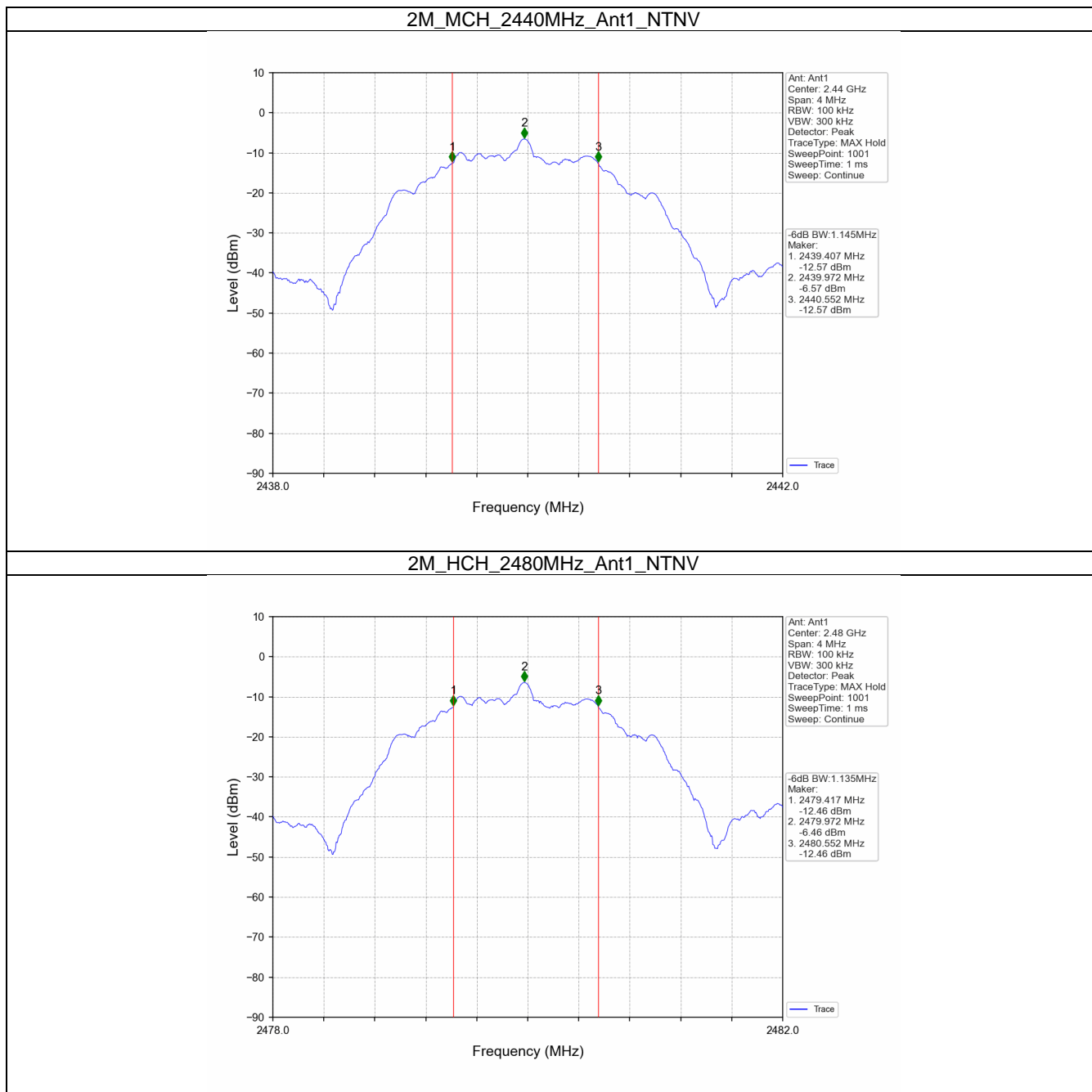
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3. Maximum Conducted Output Power

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	0.42	<=30	Pass
		2440	-1.79	<=30	Pass
		2480	-1.66	<=30	Pass
2M	SISO	2402	0.49	<=30	Pass
		2440	-1.75	<=30	Pass
		2480	-1.56	<=30	Pass

Note1: Antenna Gain: Ant1: 3.12dBi;

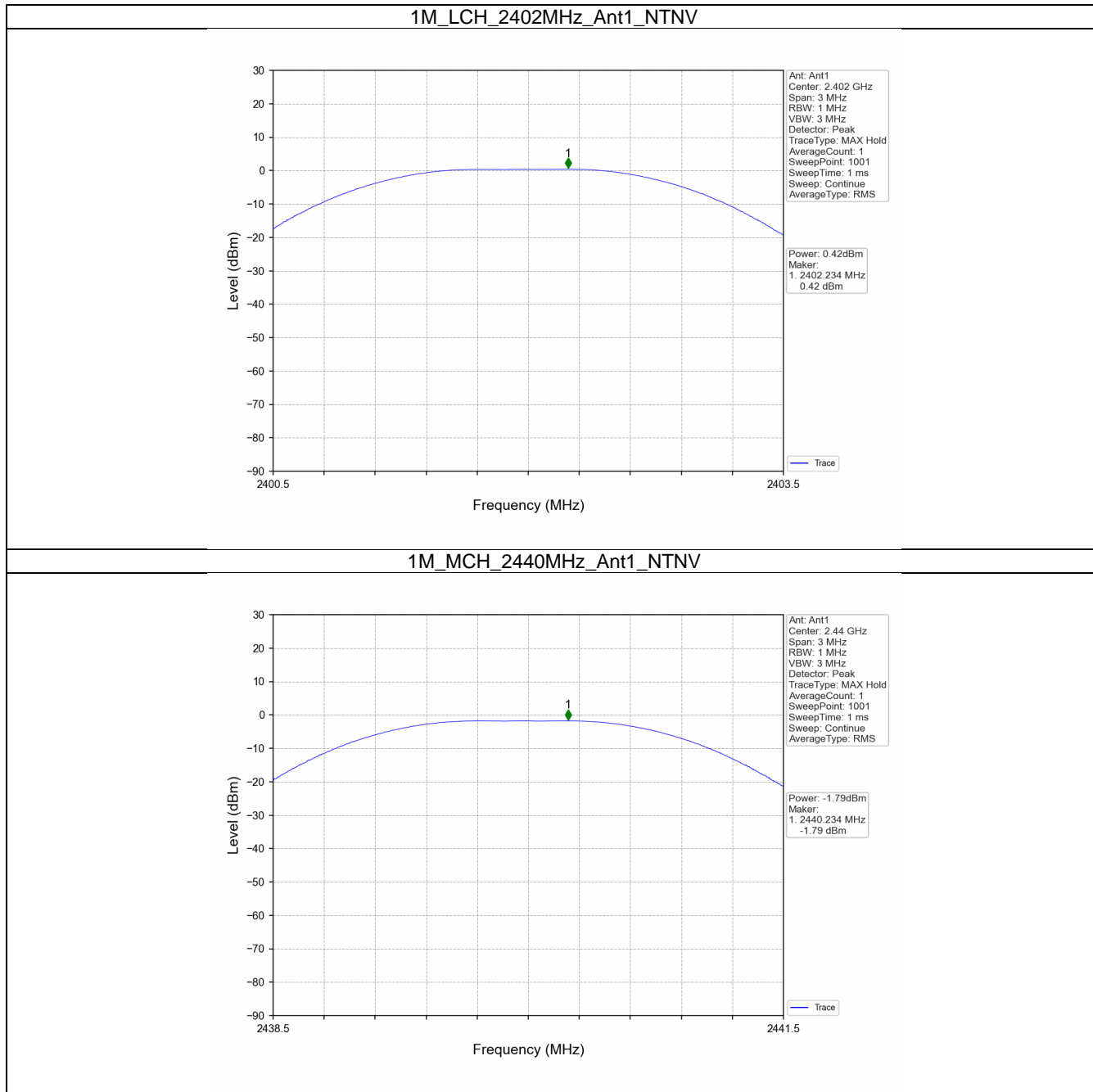


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3.1.2 Test Graph

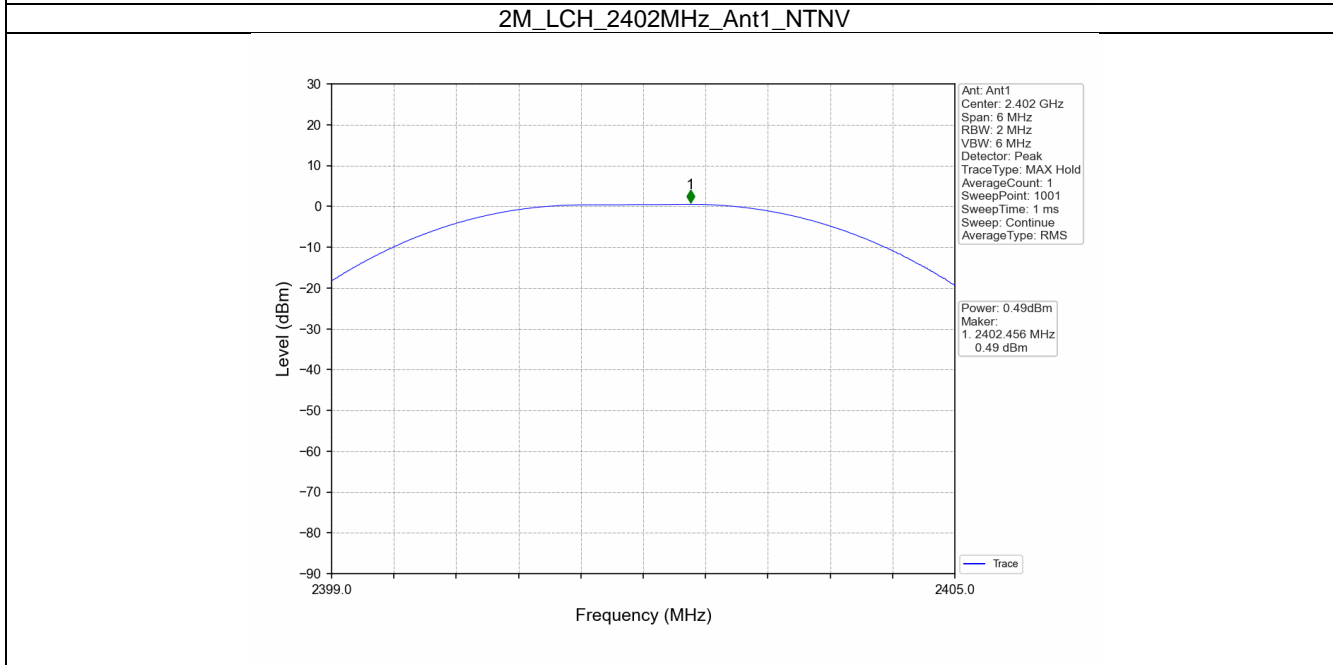
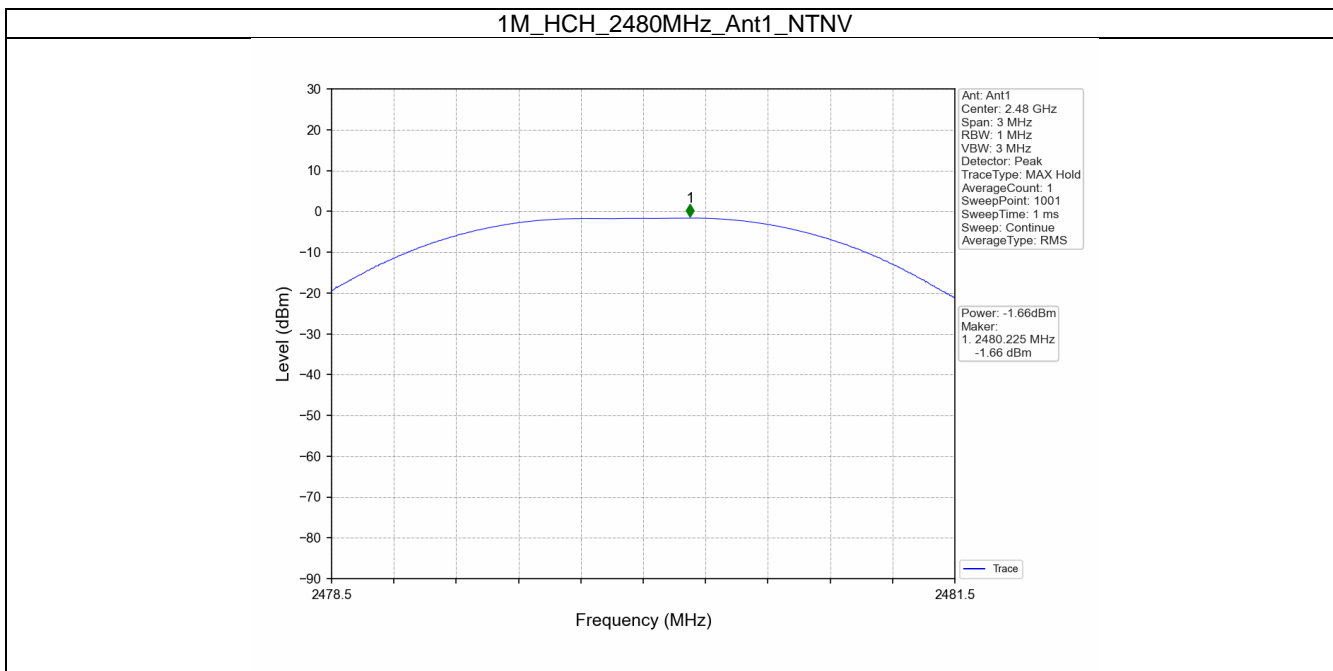


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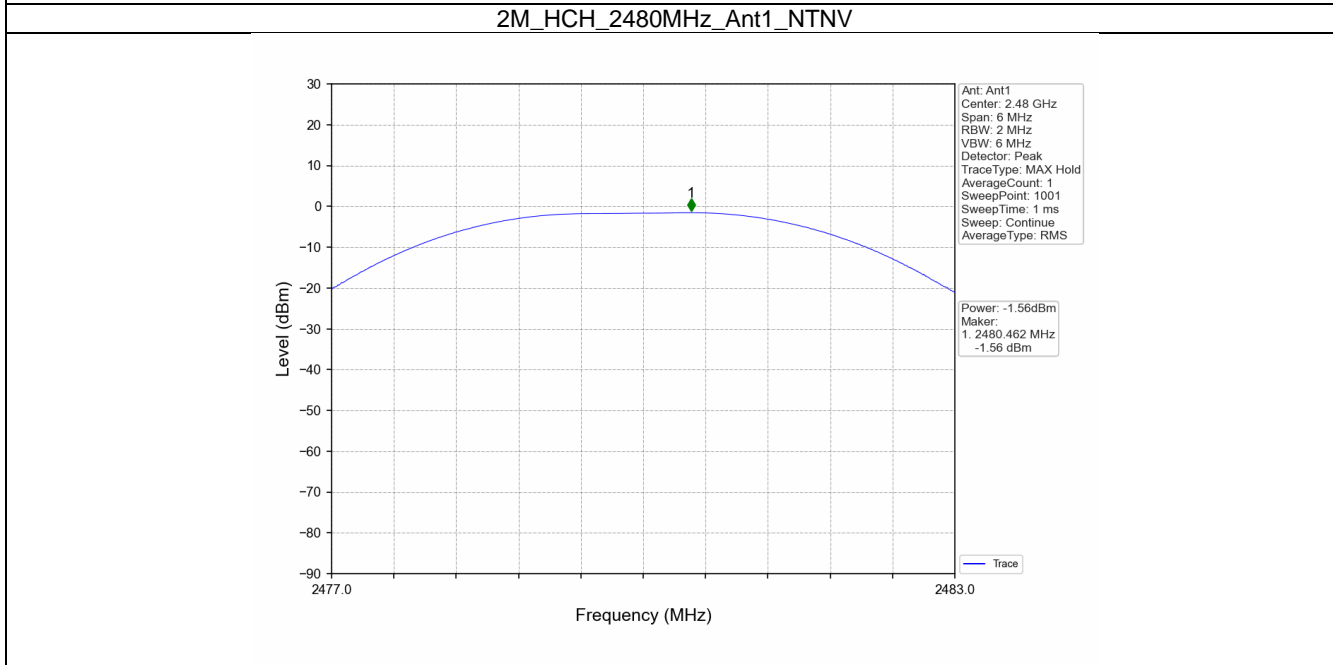
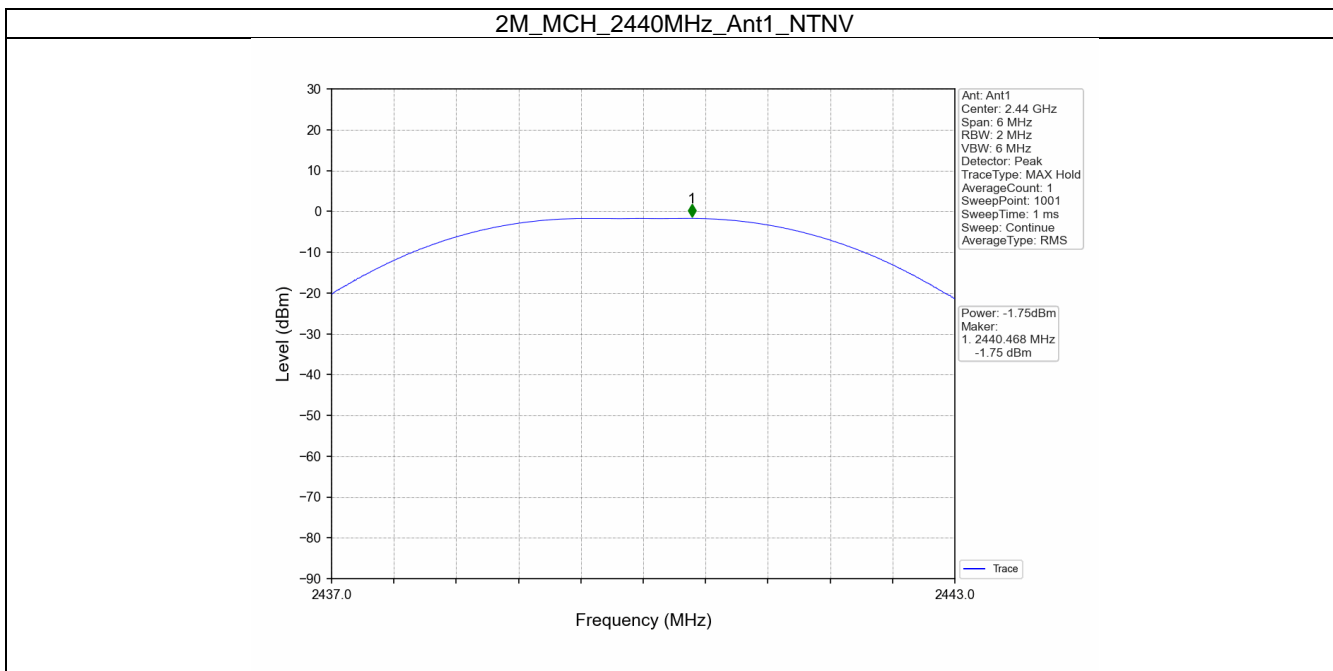
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-14.50	<=8	Pass
		2440	-16.82	<=8	Pass
		2480	-16.75	<=8	Pass
2M	SISO	2402	-16.99	<=8	Pass
		2440	-19.22	<=8	Pass
		2480	-19.19	<=8	Pass

Note1: Antenna Gain: Ant1: 3.12dBi;

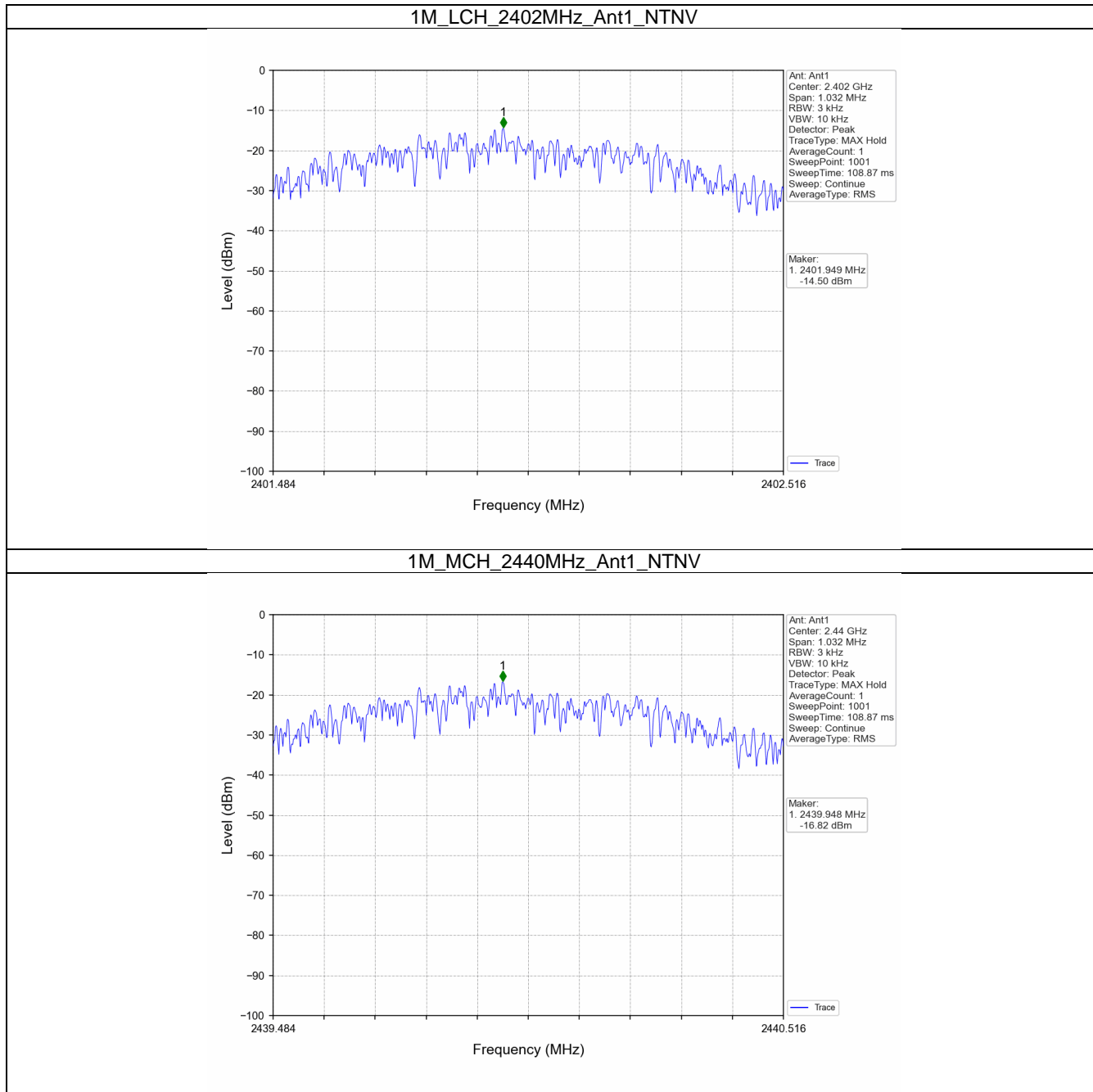


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4.1.2 Test Graph

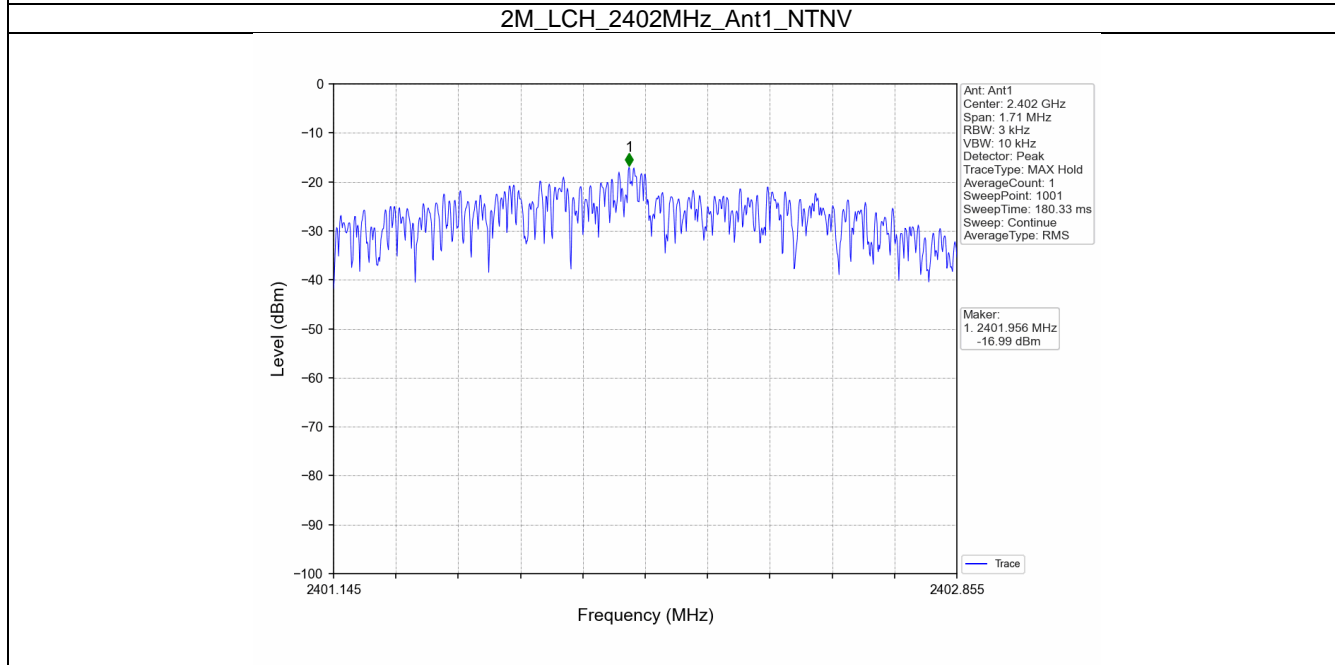
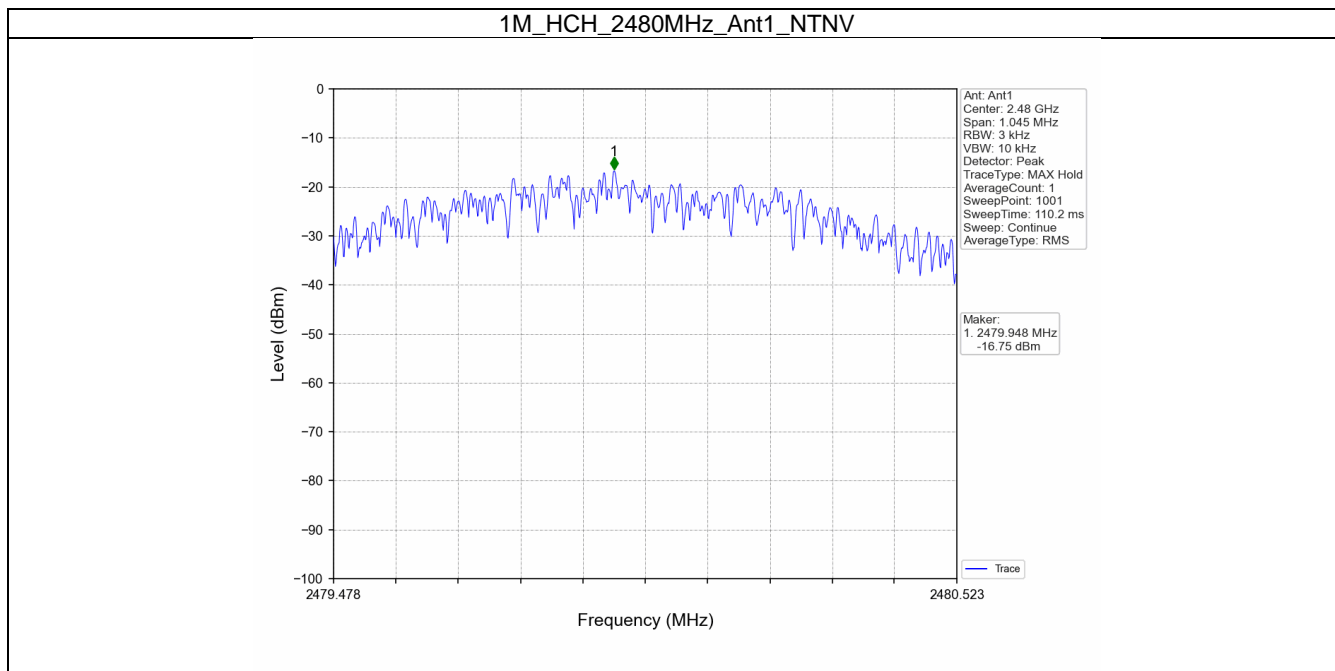


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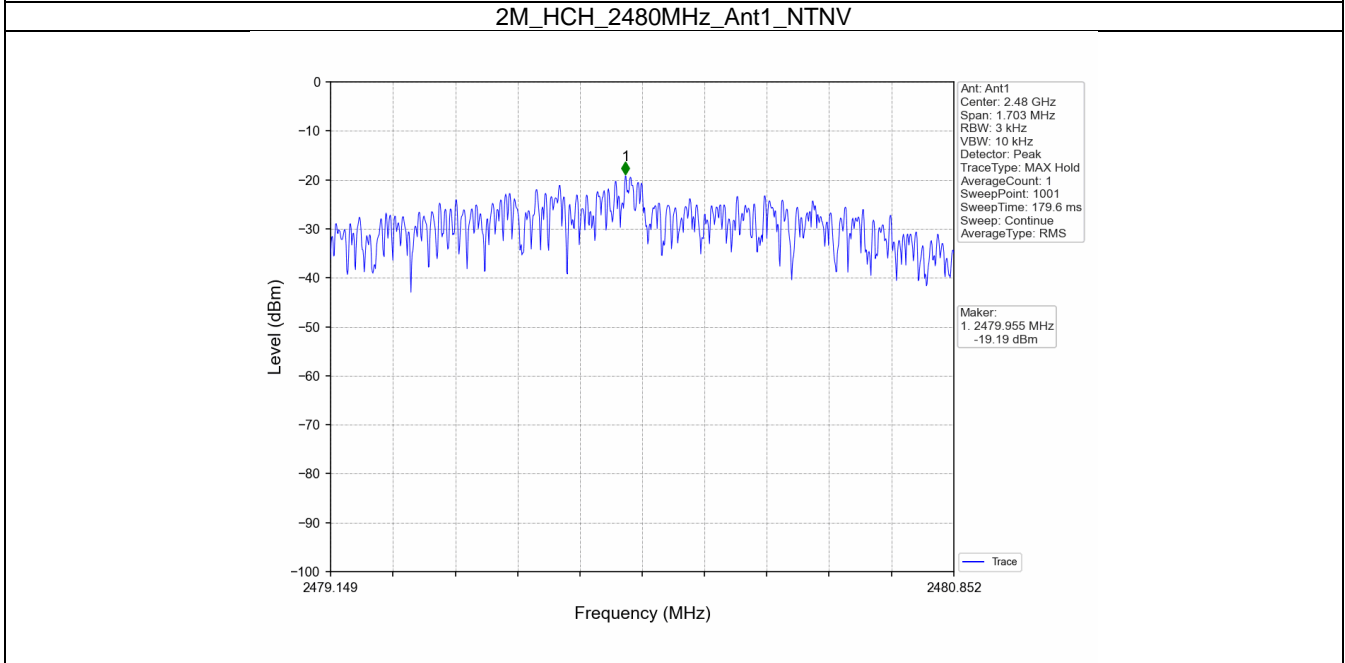
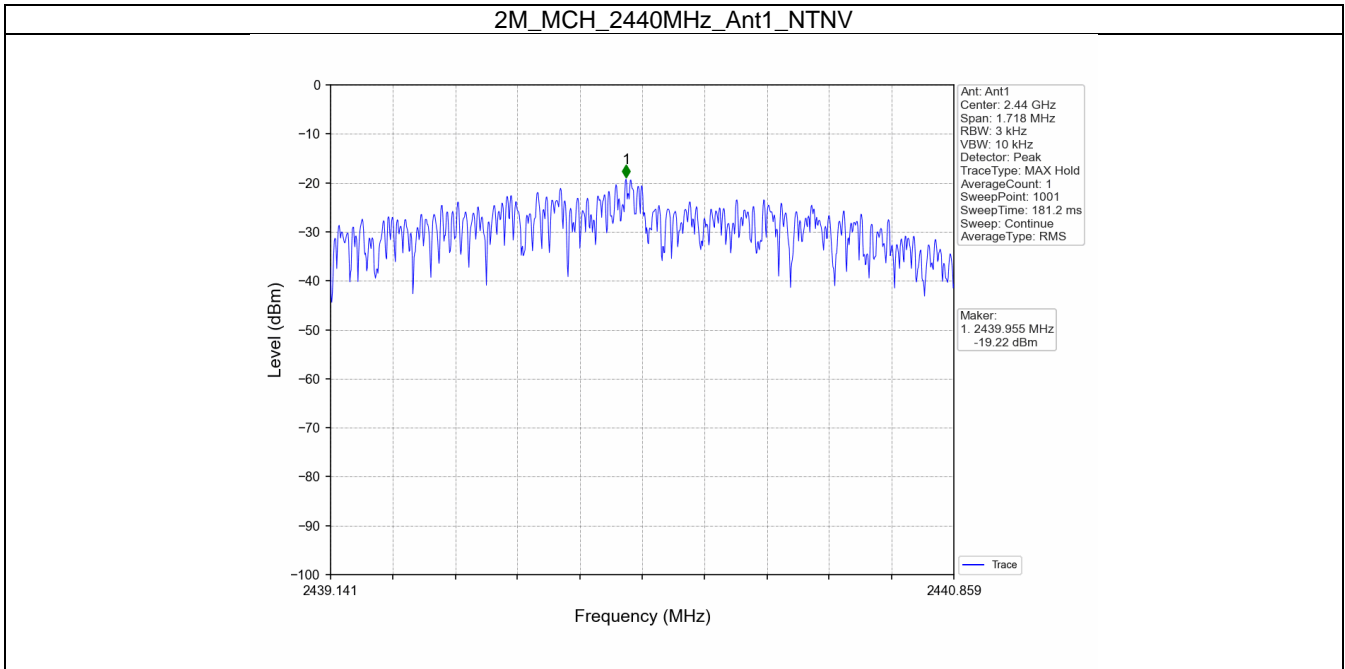
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.36
		2440	1	-1.81
		2480	1	-1.75
2M	SISO	2402	1	0.40
		2440	1	-1.80
		2480	1	-1.73

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.

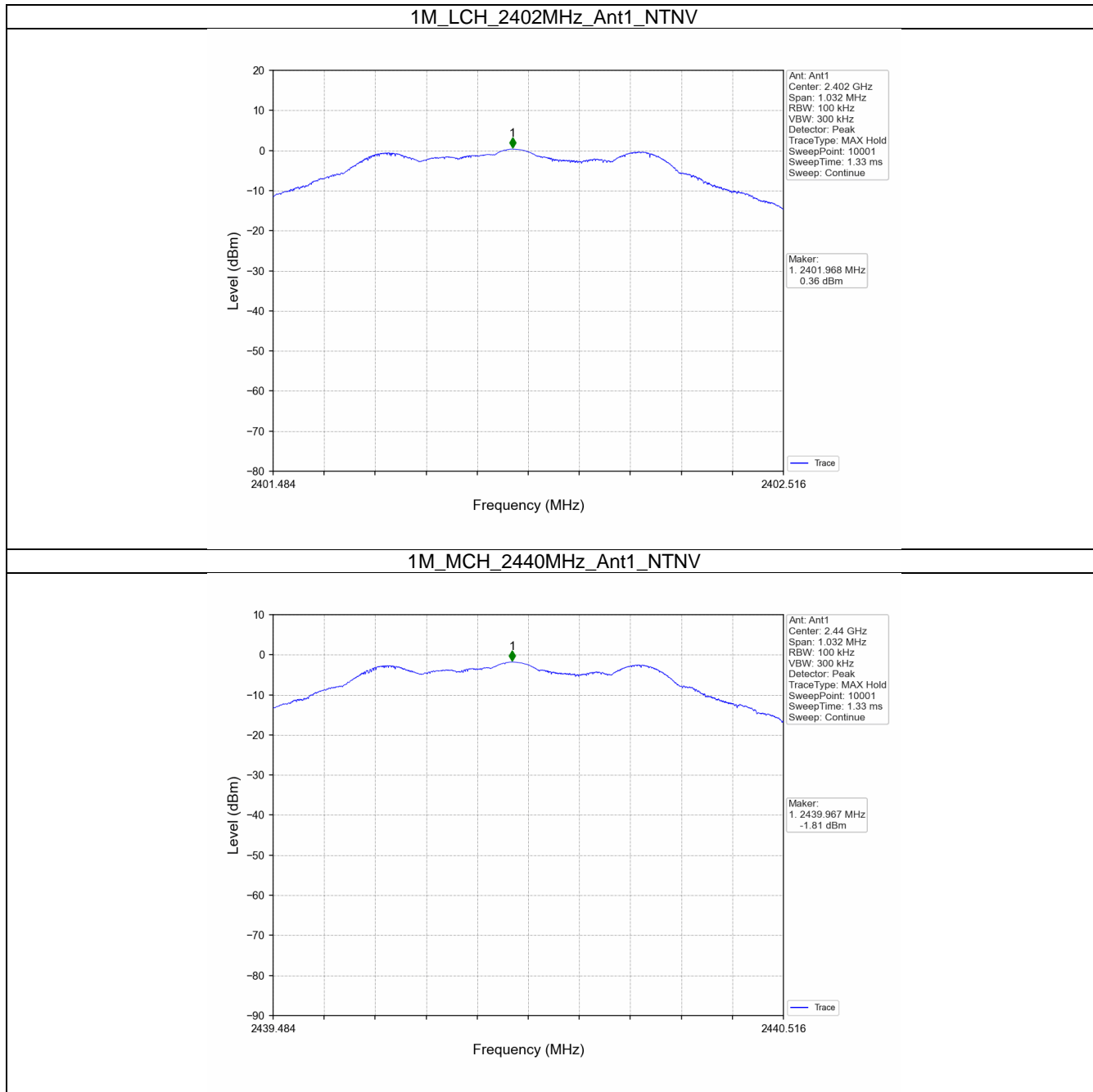
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.1.2 Test Graph

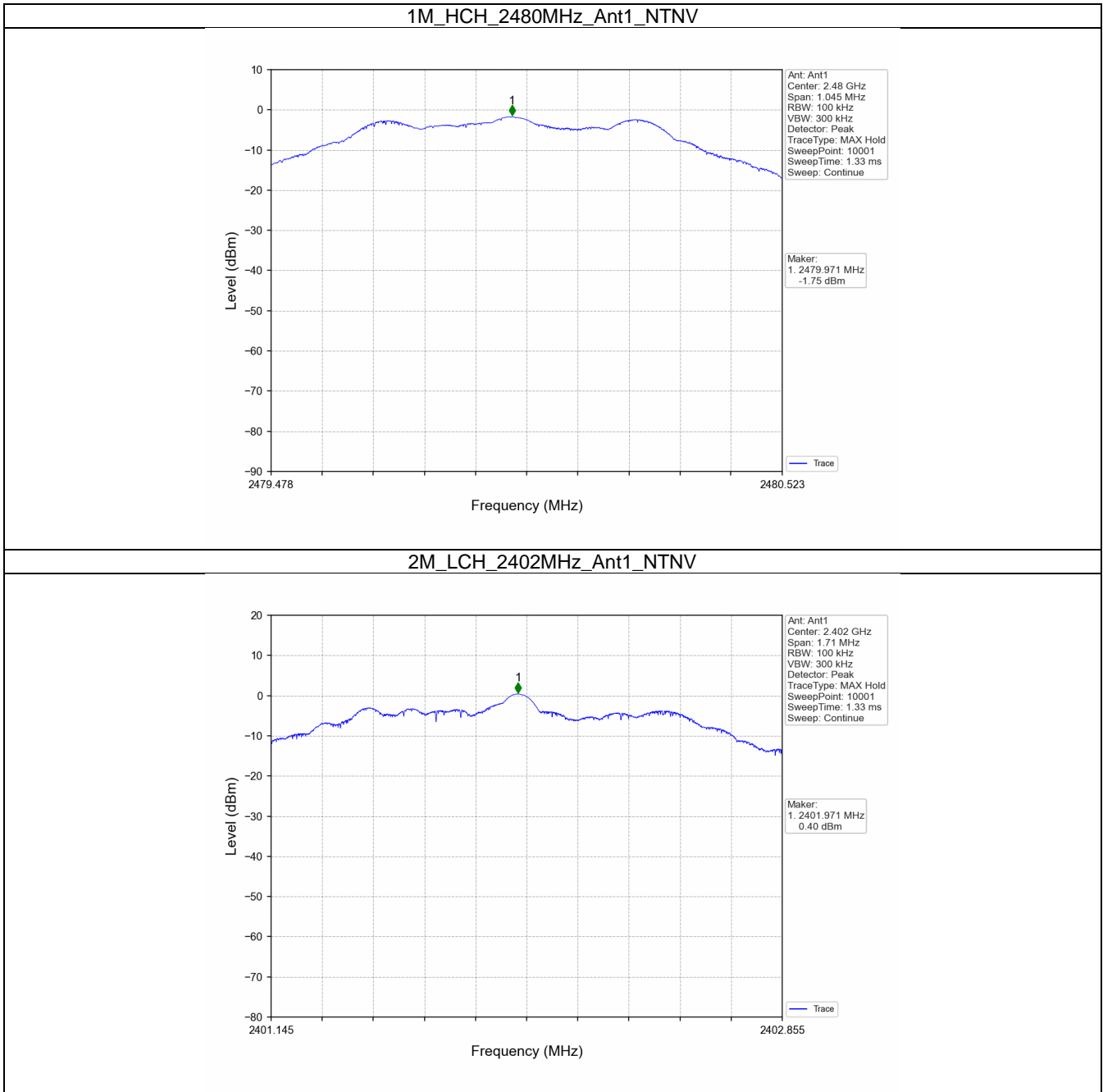


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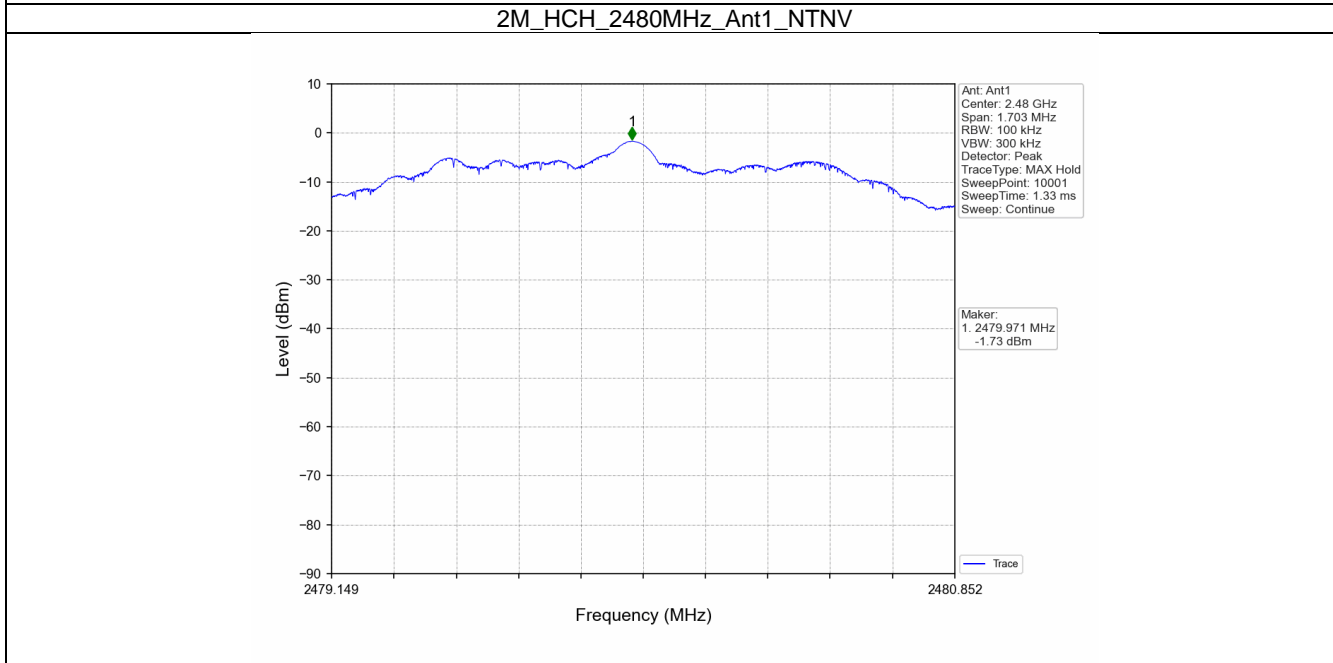
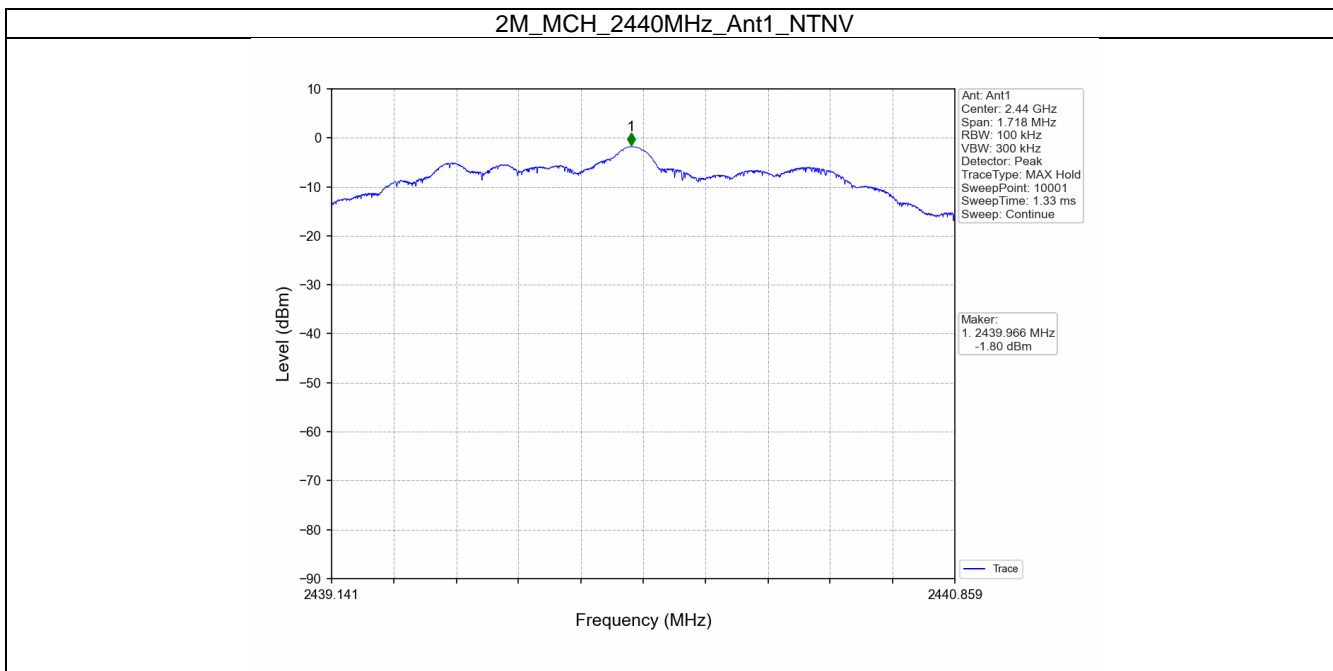


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.36	-19.64	Pass
		2440	1	0.36	-19.64	Pass
		2480	1	0.36	-19.64	Pass
2M	SISO	2402	1	0.40	-19.60	Pass
		2440	1	0.40	-19.60	Pass
		2480	1	0.40	-19.60	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.

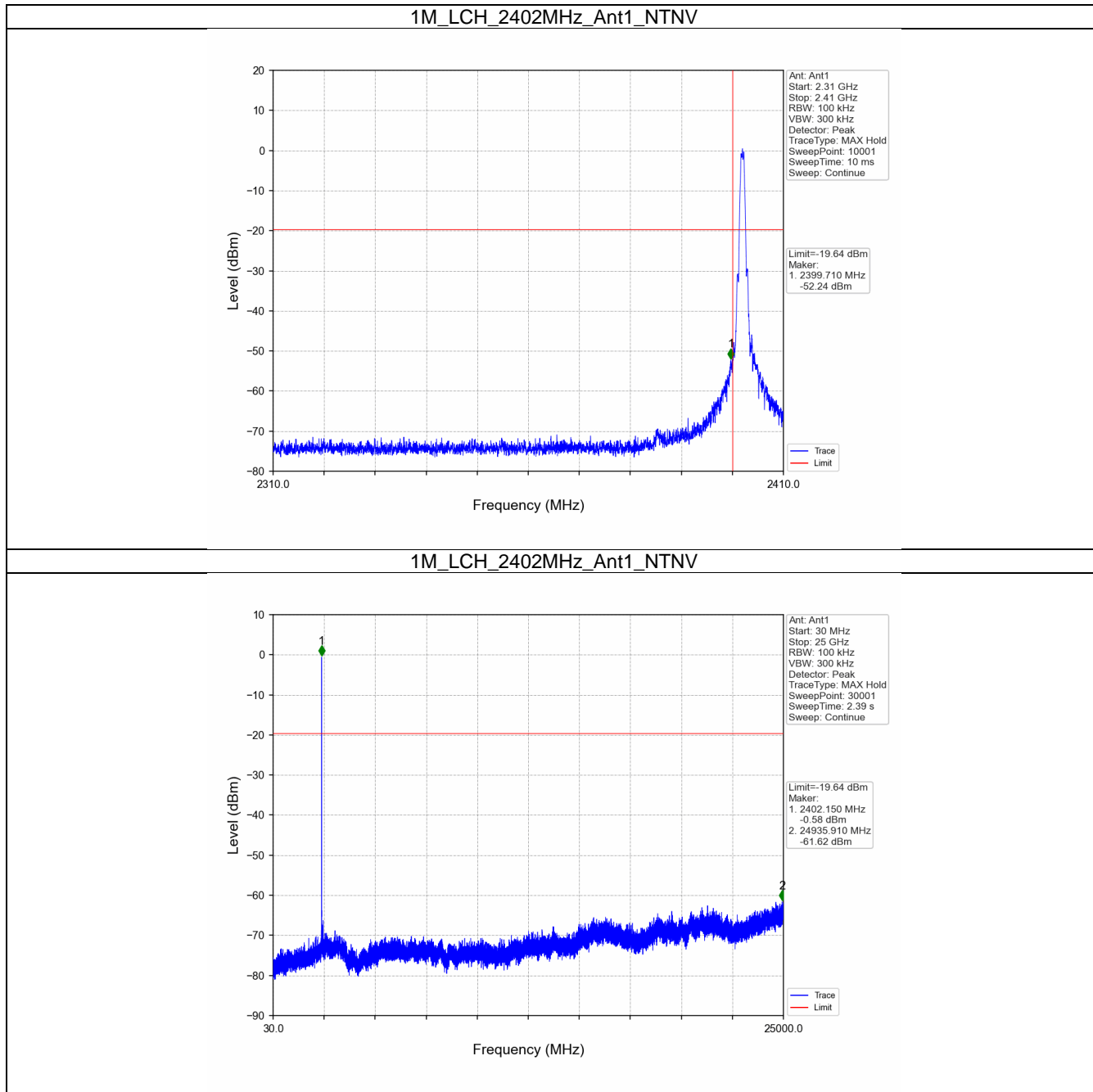
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.2.2 Test Graph

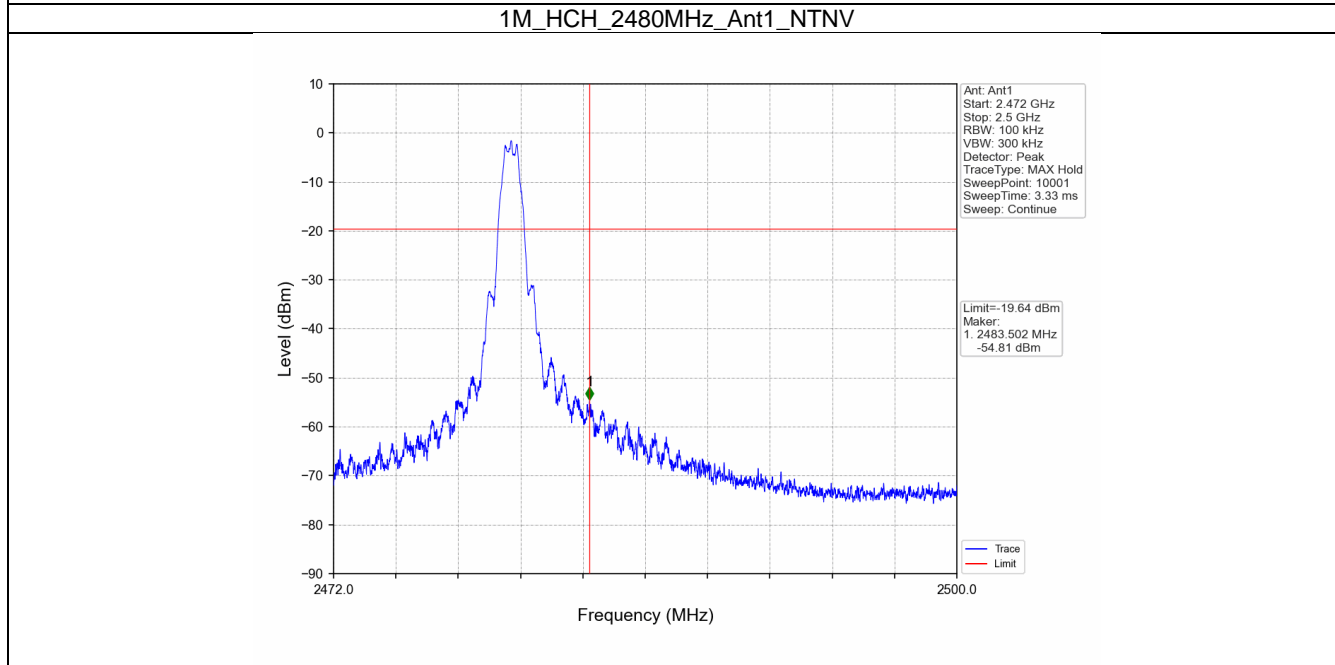
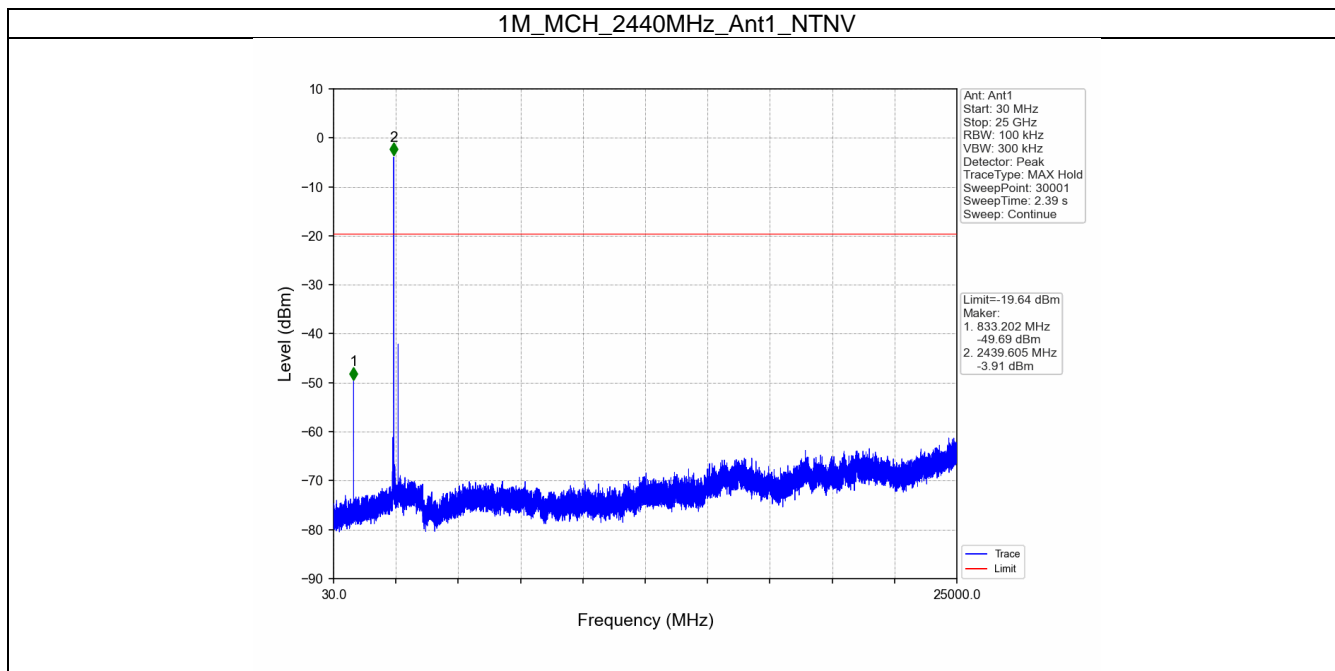


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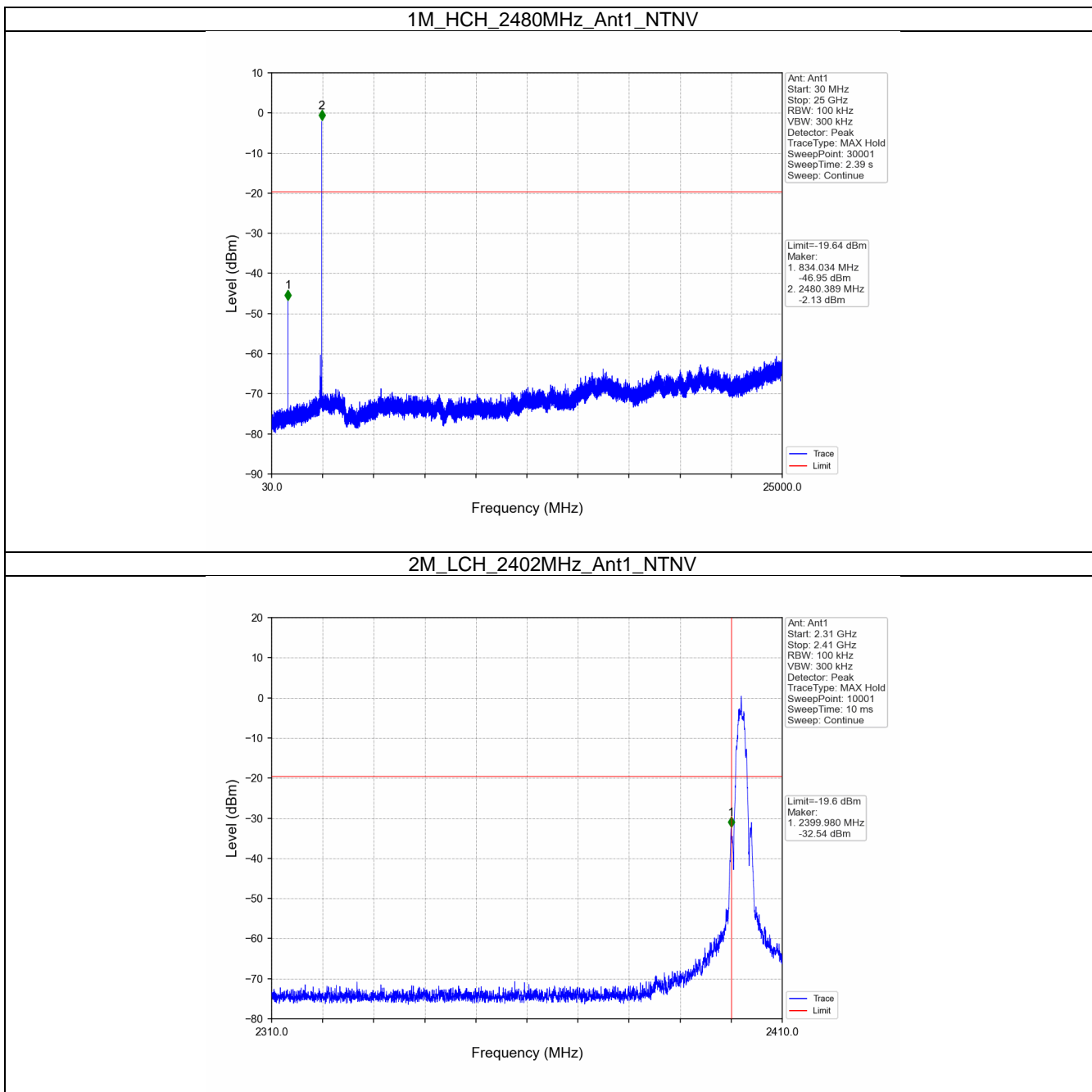
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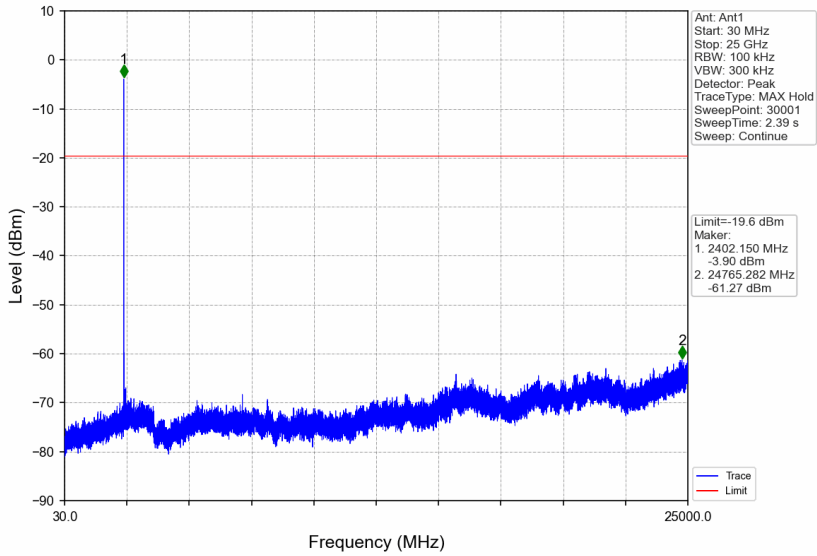


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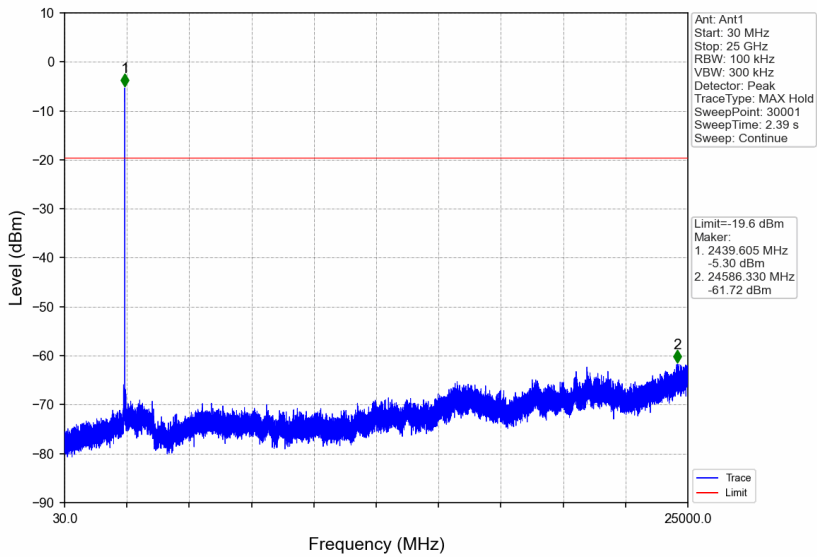
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2M_LCH_2402MHz_Ant1_NTNV

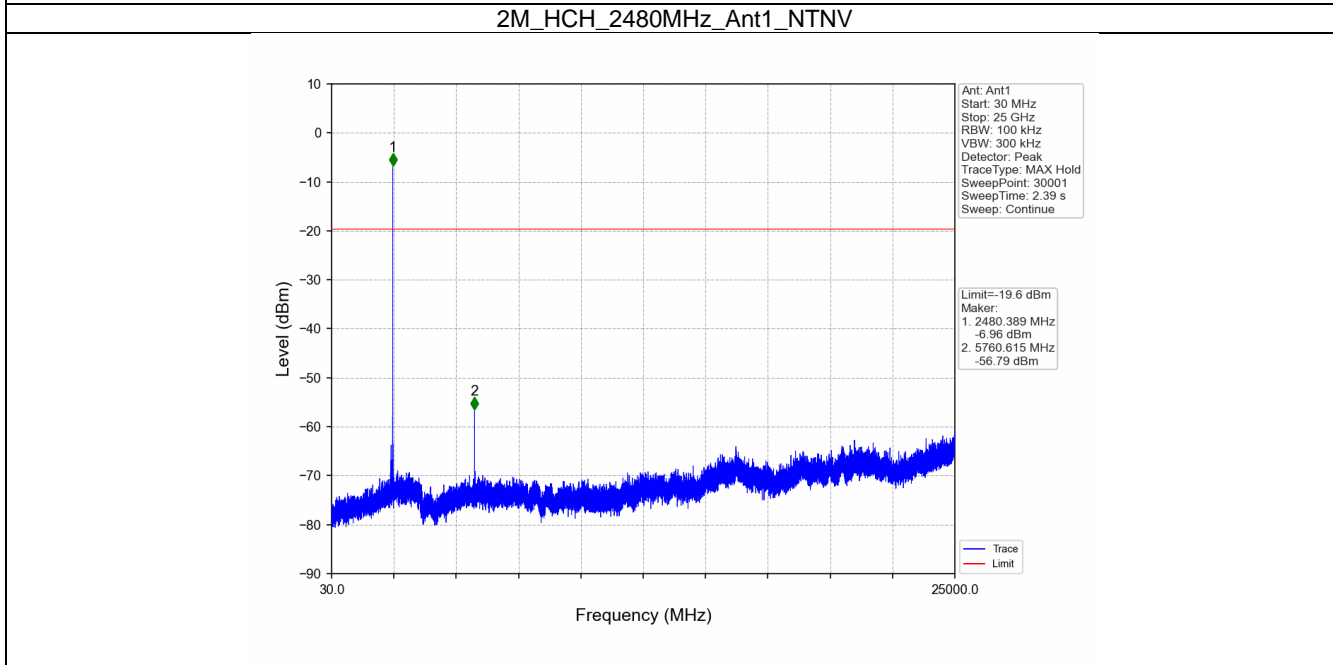
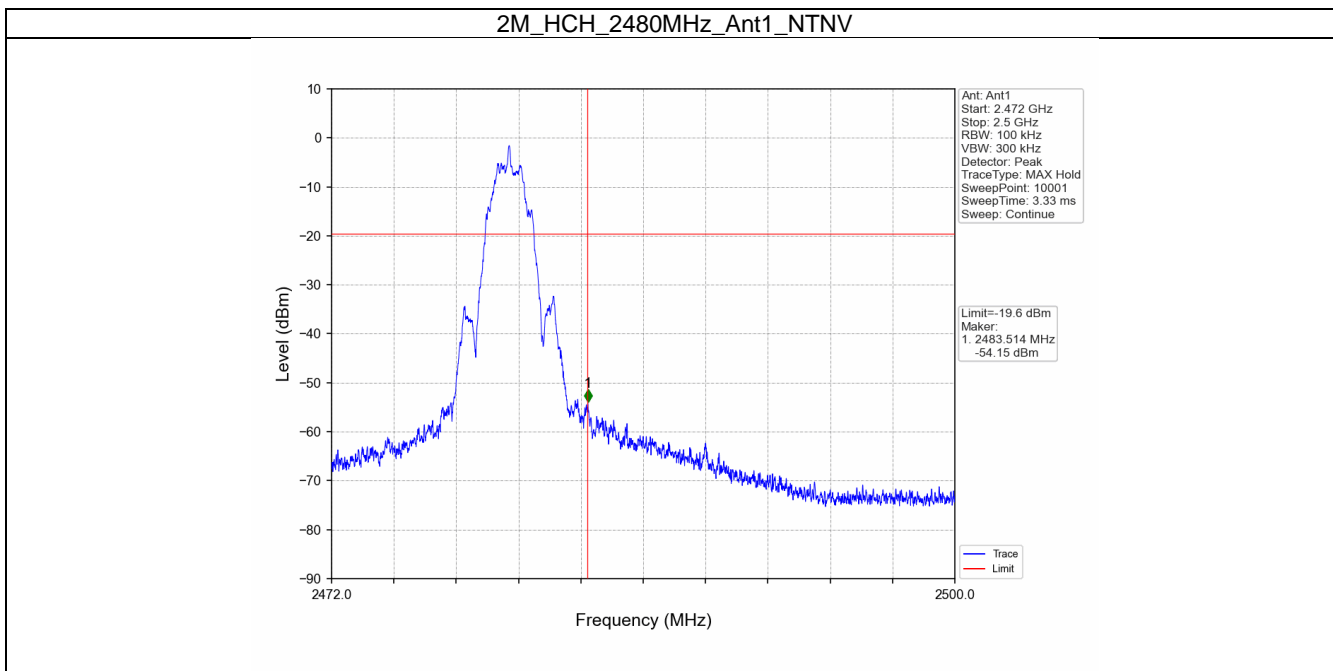


2M_MCH_2440MHz_Ant1_NTNV



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