

10 Appendix---Antenna1

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	0.390	0.625	62.40	2.05	0.03
		2440	0.396	0.625	63.36	1.98	0.00
		2480	0.396	0.625	63.36	1.98	0.00
2M	SISO	2402	0.194	0.625	31.04	5.08	0.00
		2440	0.200	0.625	32.00	4.95	0.03
		2480	0.200	0.625	32.00	4.95	0.03



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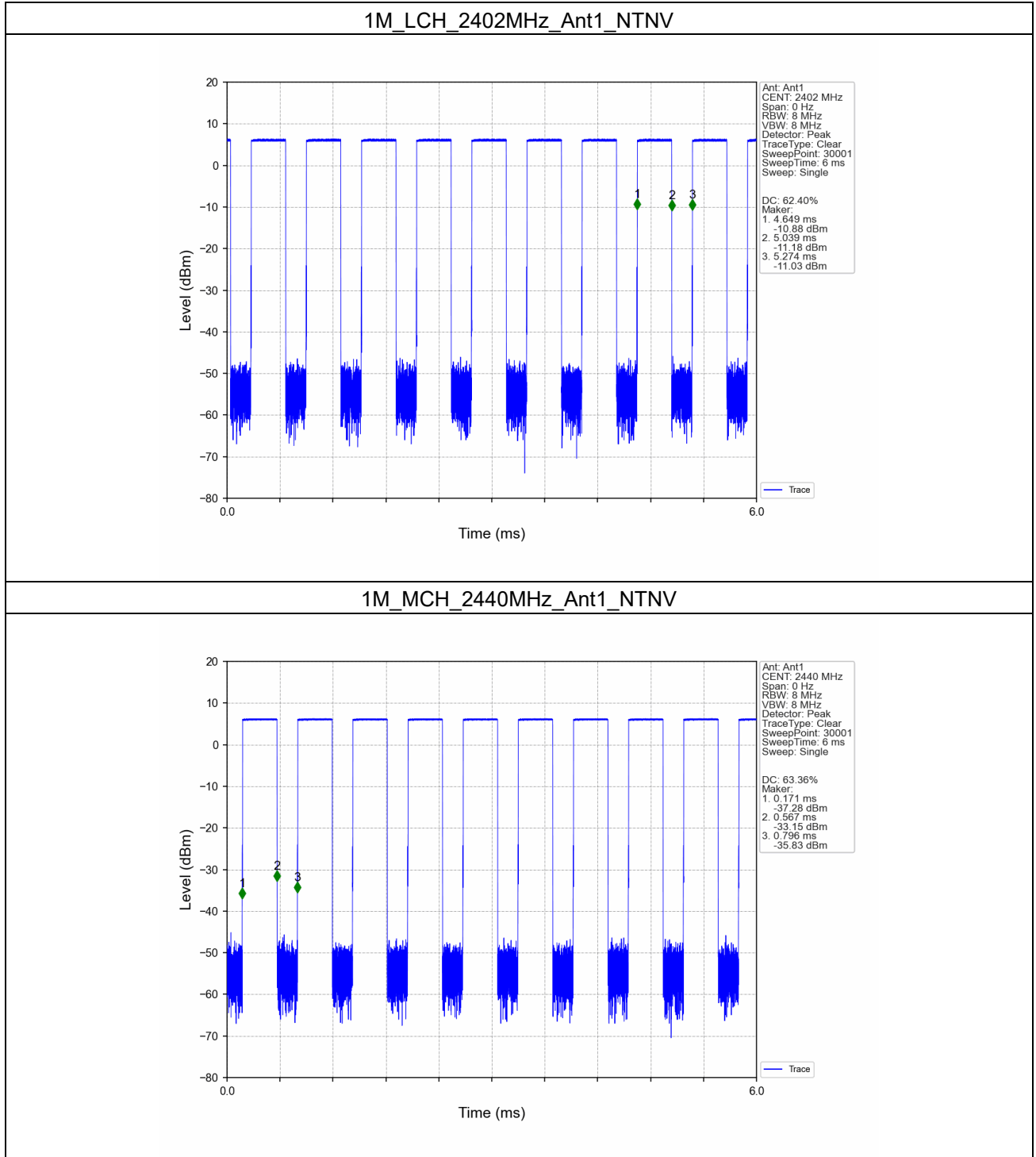
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1.2 Test Graph

1.2.1 Ant1



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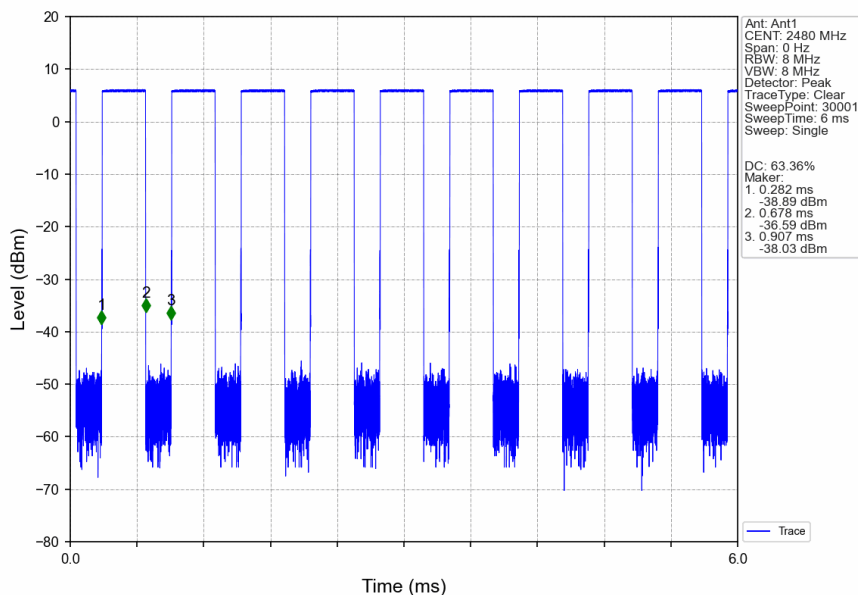
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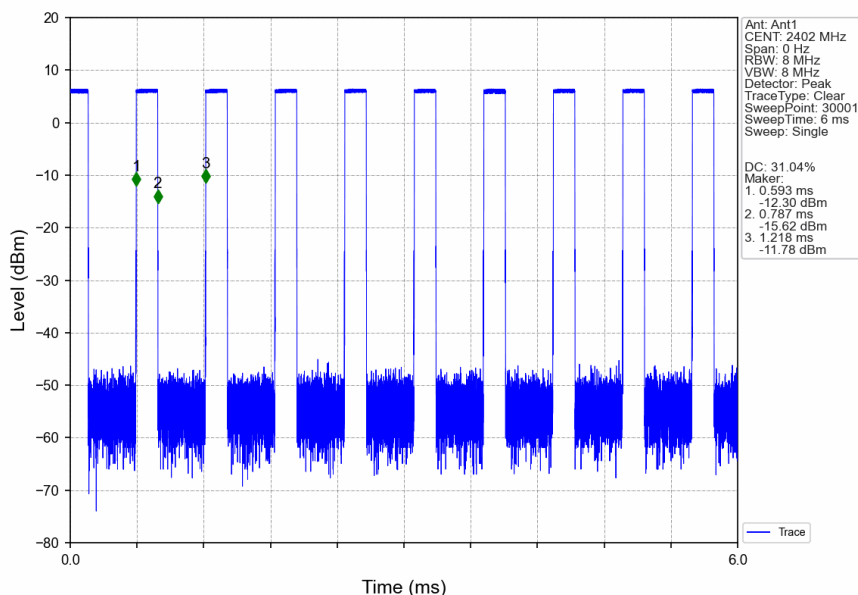
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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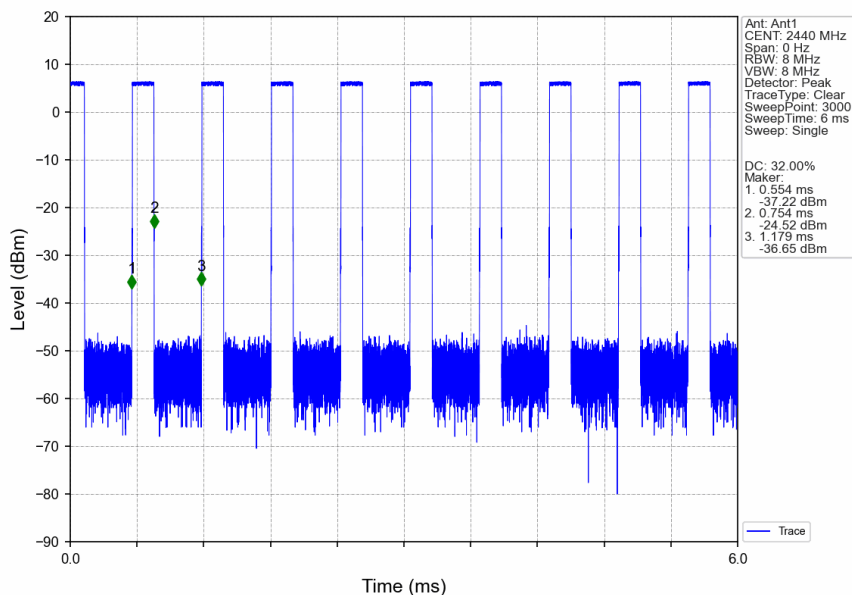
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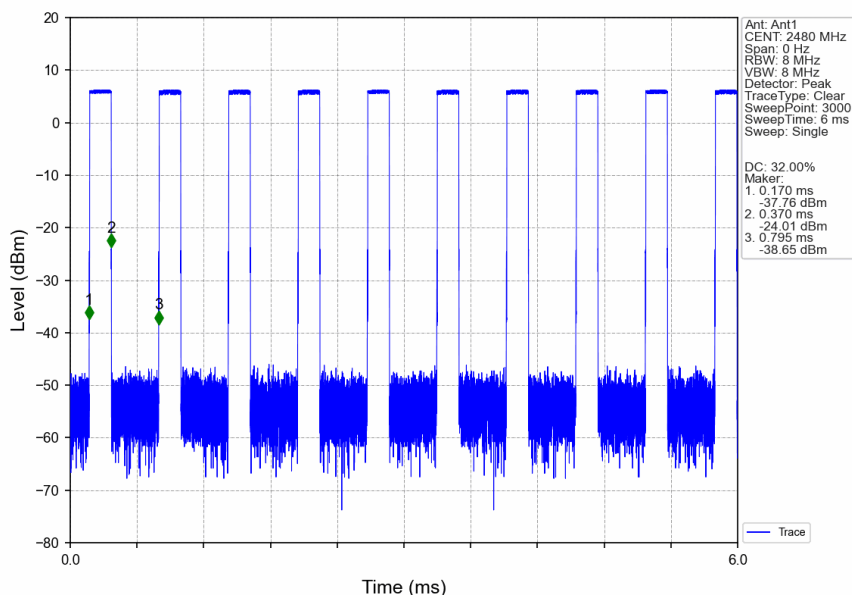
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2. Bandwidth

2.1 Test Result

2.1.1 OBW(report only)

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.051	/	Pass
		2440	1	1.051	/	Pass
		2480	1	1.051	/	Pass
2M	SISO	2402	1	2.084	/	Pass
		2440	1	2.081	/	Pass
		2480	1	2.082	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.719	≥ 0.5	Pass
		2440	1	0.707	≥ 0.5	Pass
		2480	1	0.712	≥ 0.5	Pass
2M	SISO	2402	1	1.317	≥ 0.5	Pass
		2440	1	1.289	≥ 0.5	Pass
		2480	1	1.291	≥ 0.5	Pass



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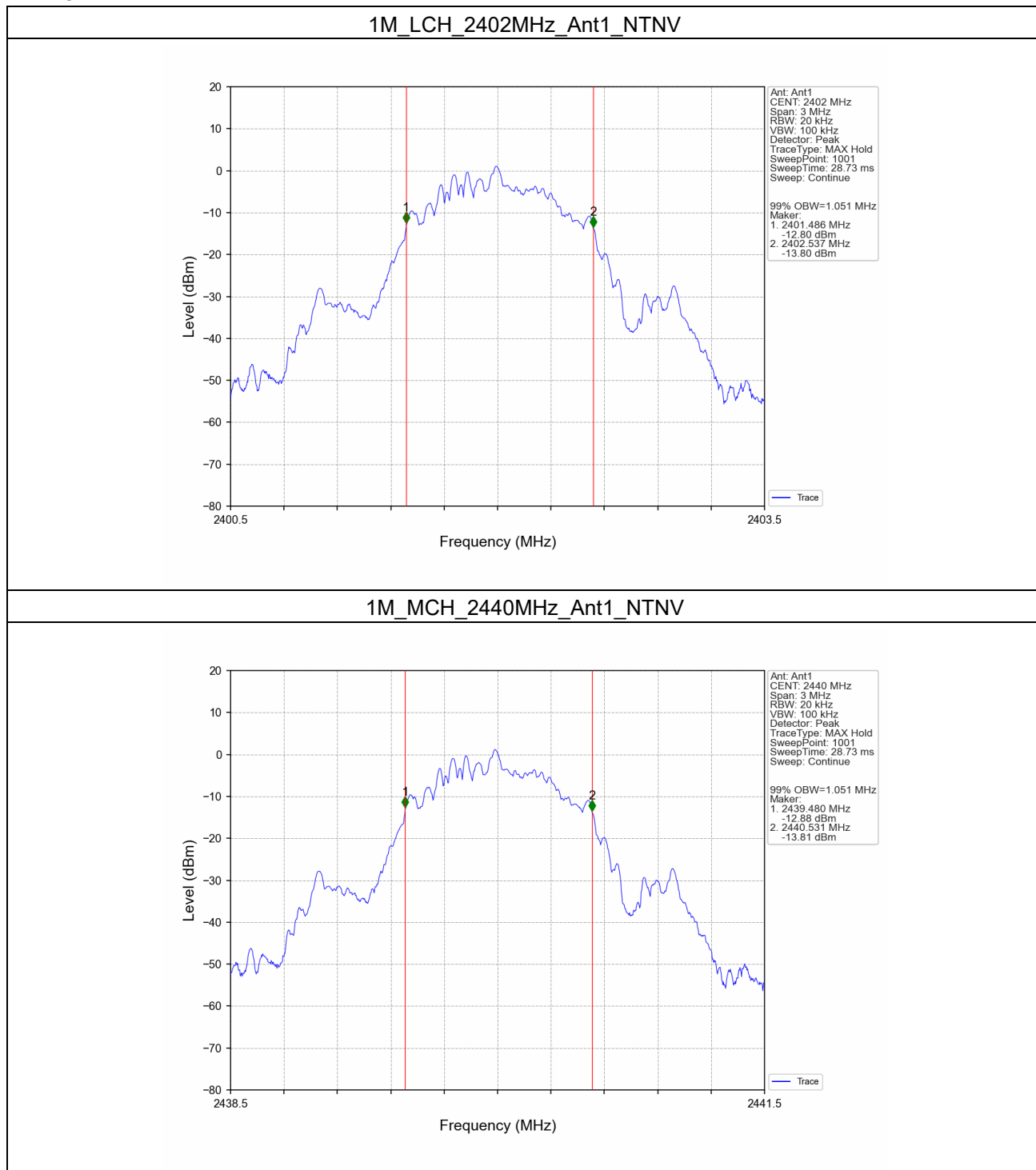
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2.2 Test Graph

2.2.1 OBW



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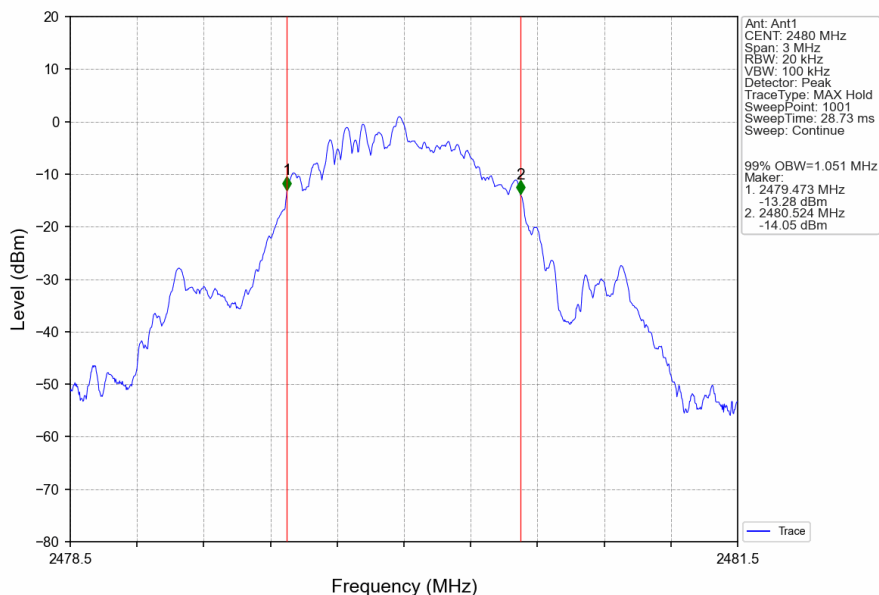
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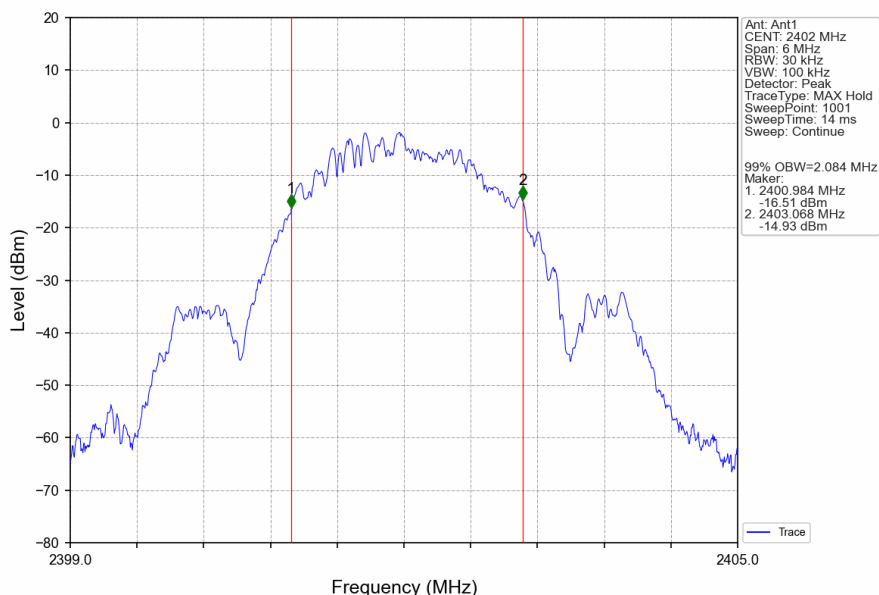
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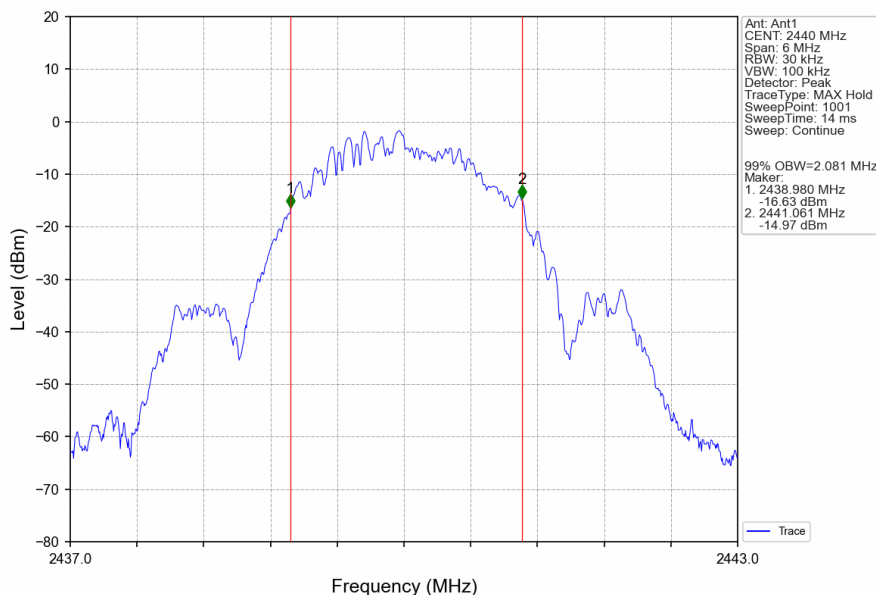
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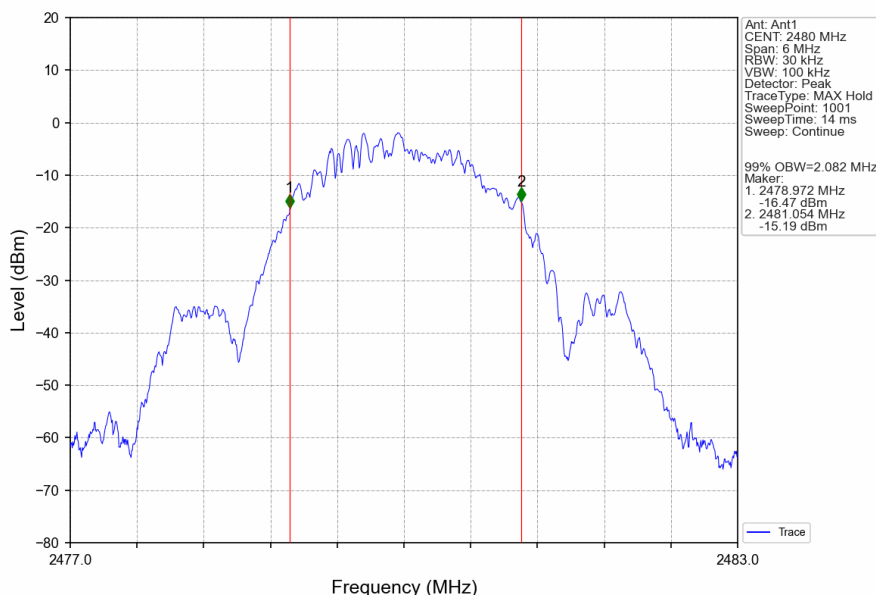
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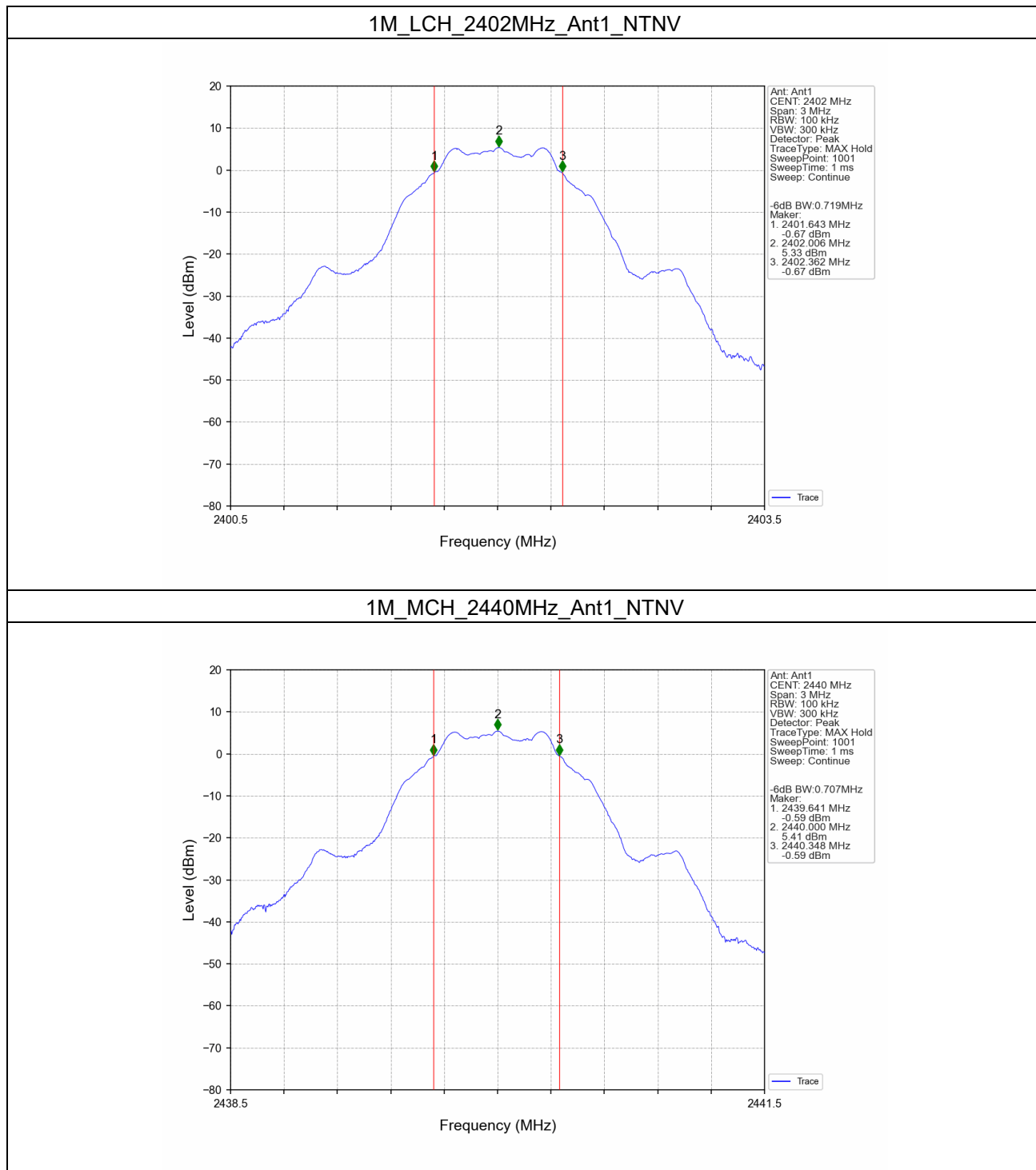
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2.2.2 6dB BW



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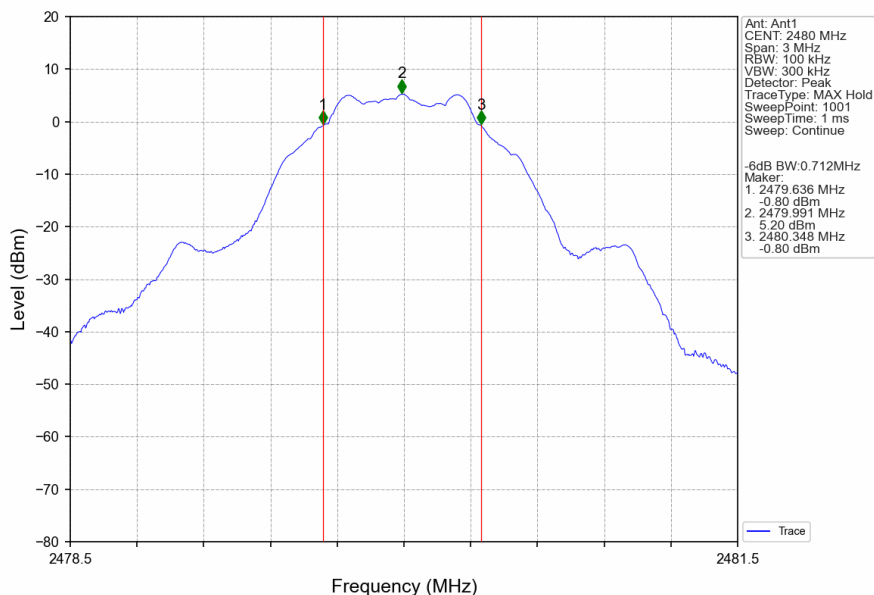
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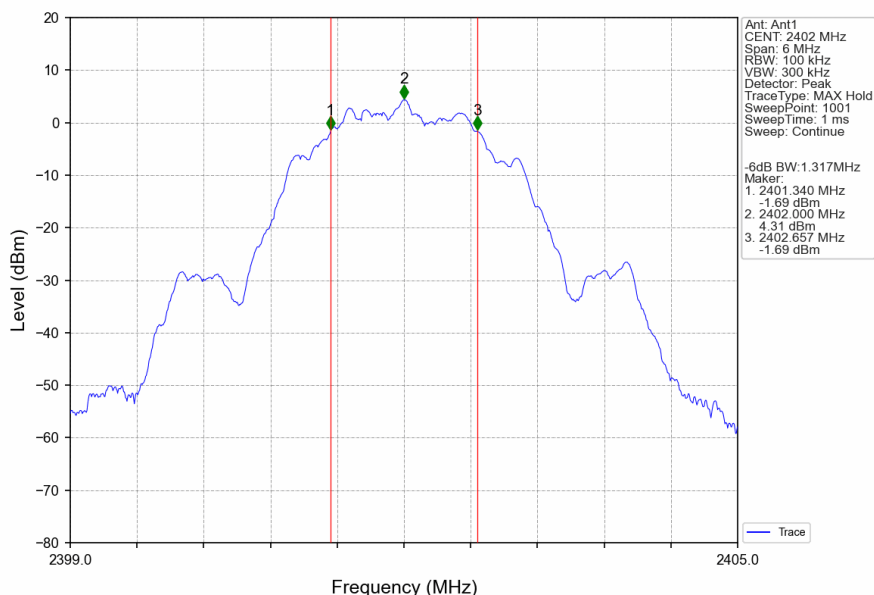
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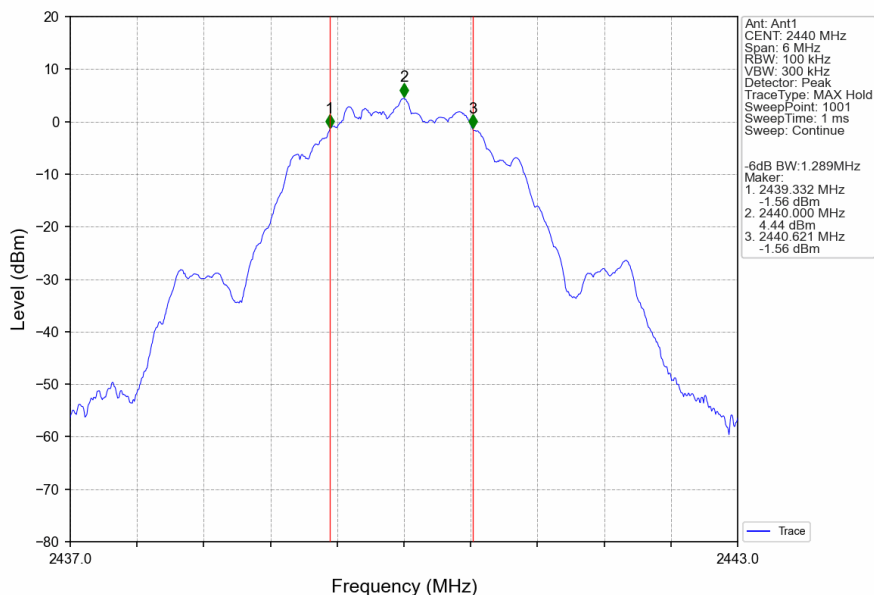
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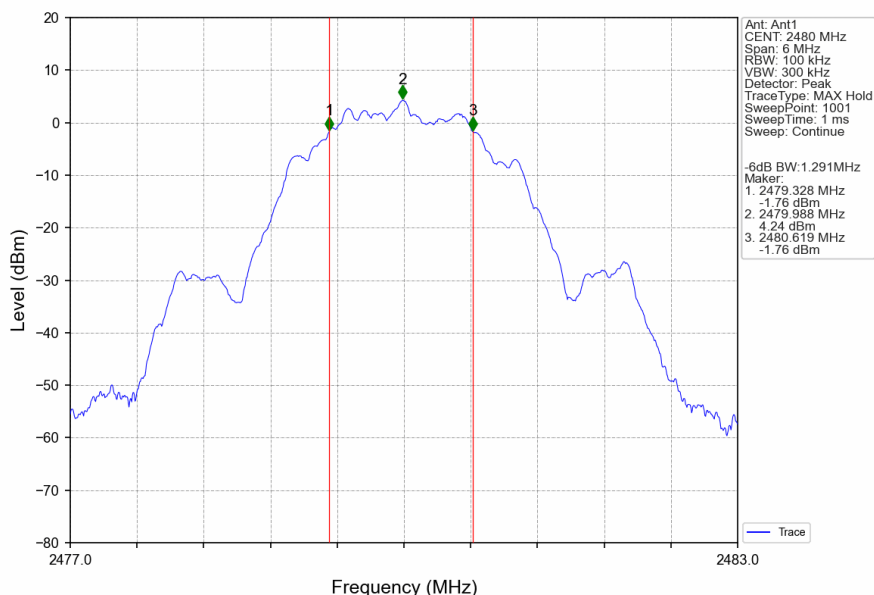
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3. Maximum Conducted Output Power**3.1 Test Result****3.1.1 Power**

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	6.27	<=29	Pass
		2440	6.21	<=29	Pass
		2480	6.05	<=29	Pass
2M	SISO	2402	6.29	<=29	Pass
		2440	6.22	<=29	Pass
		2480	6.09	<=29	Pass

4. Maximum Power Spectral Density**4.1 Test Result****4.1.1 PSD**

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	5.32dBm/100kHz	<=8	Pass
		2440	5.43dBm/100kHz	<=8	Pass
		2480	5.22dBm/100kHz	<=8	Pass
2M	SISO	2402	4.37dBm/100kHz	<=8	Pass
		2440	4.46dBm/100kHz	<=8	Pass
		2480	4.24dBm/100kHz	<=8	Pass



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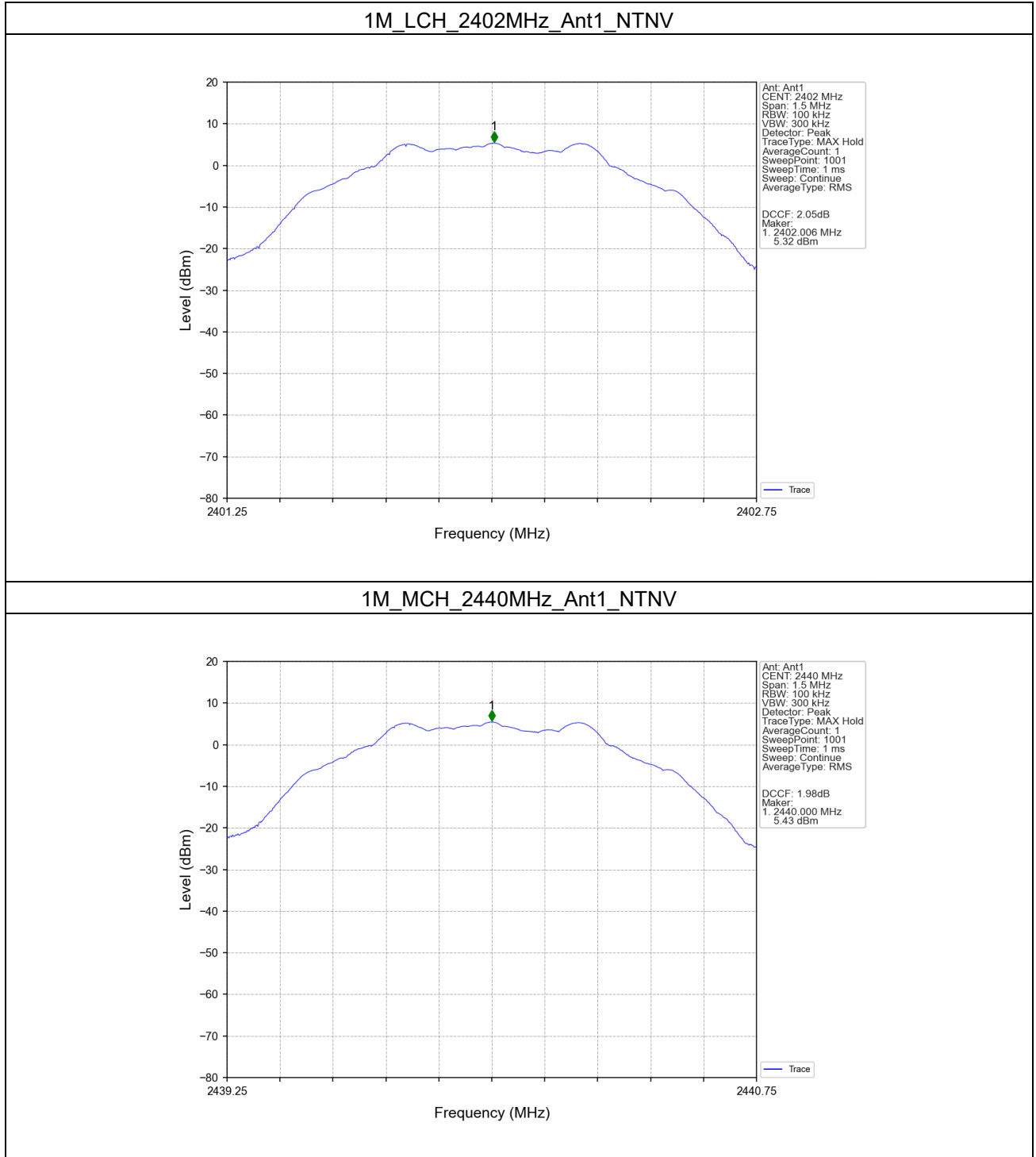
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4.2 Test Graph

4.2.1 PSD



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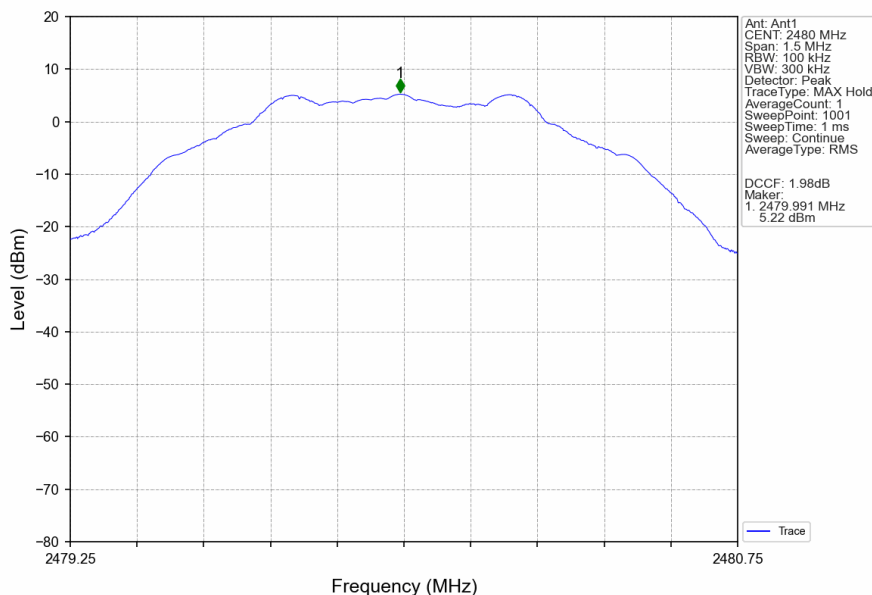
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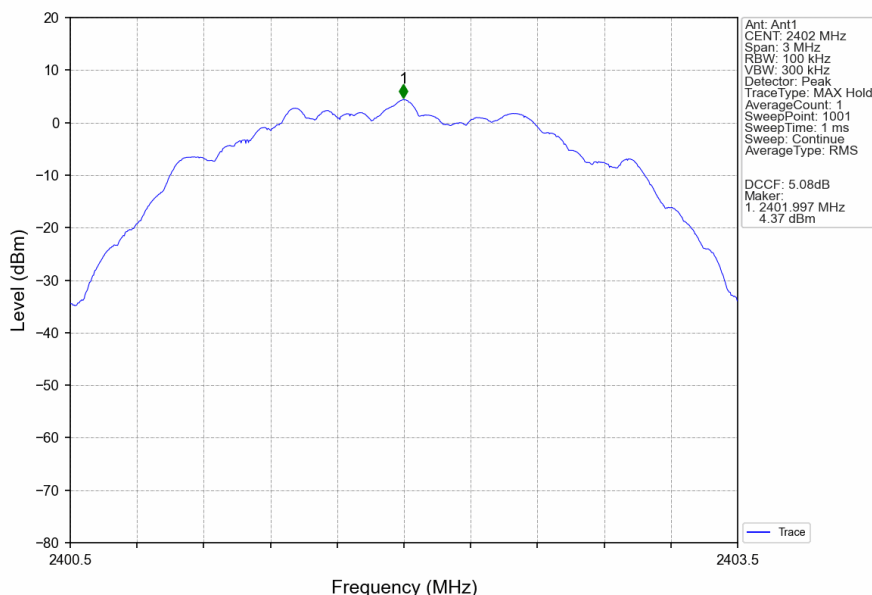
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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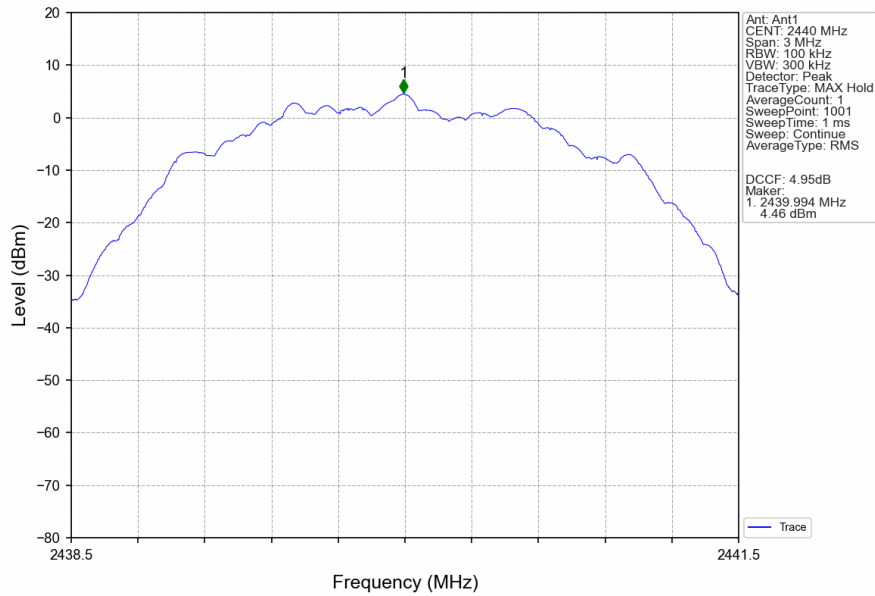
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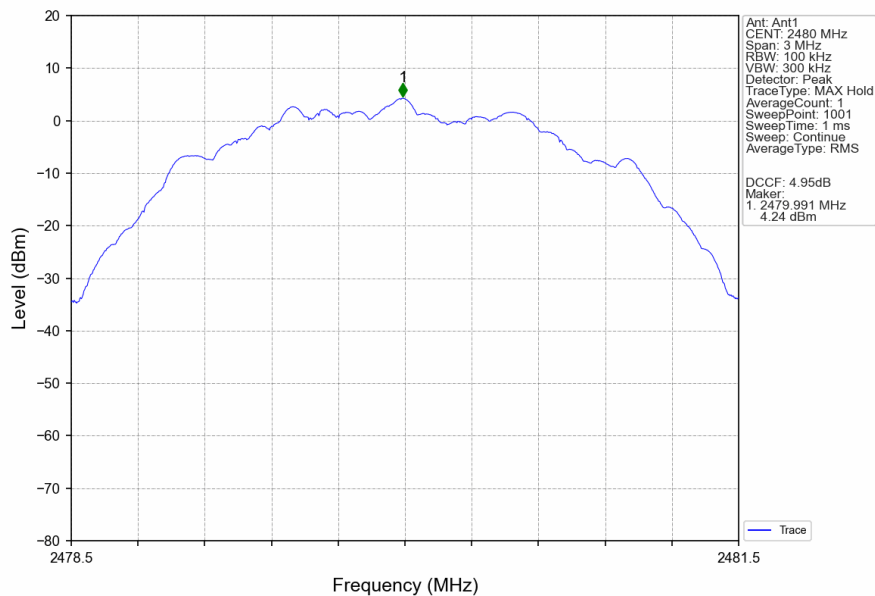
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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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	5.33
		2440	1	5.45
		2480	1	5.22
2M	SISO	2402	1	4.37
		2440	1	4.46
		2480	1	4.27

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.45	-14.55	Pass
		2440	1	5.45	-14.55	Pass
		2480	1	5.45	-14.55	Pass
2M	SISO	2402	1	4.46	-15.54	Pass
		2440	1	4.46	-15.54	Pass
		2480	1	4.46	-15.54	Pass



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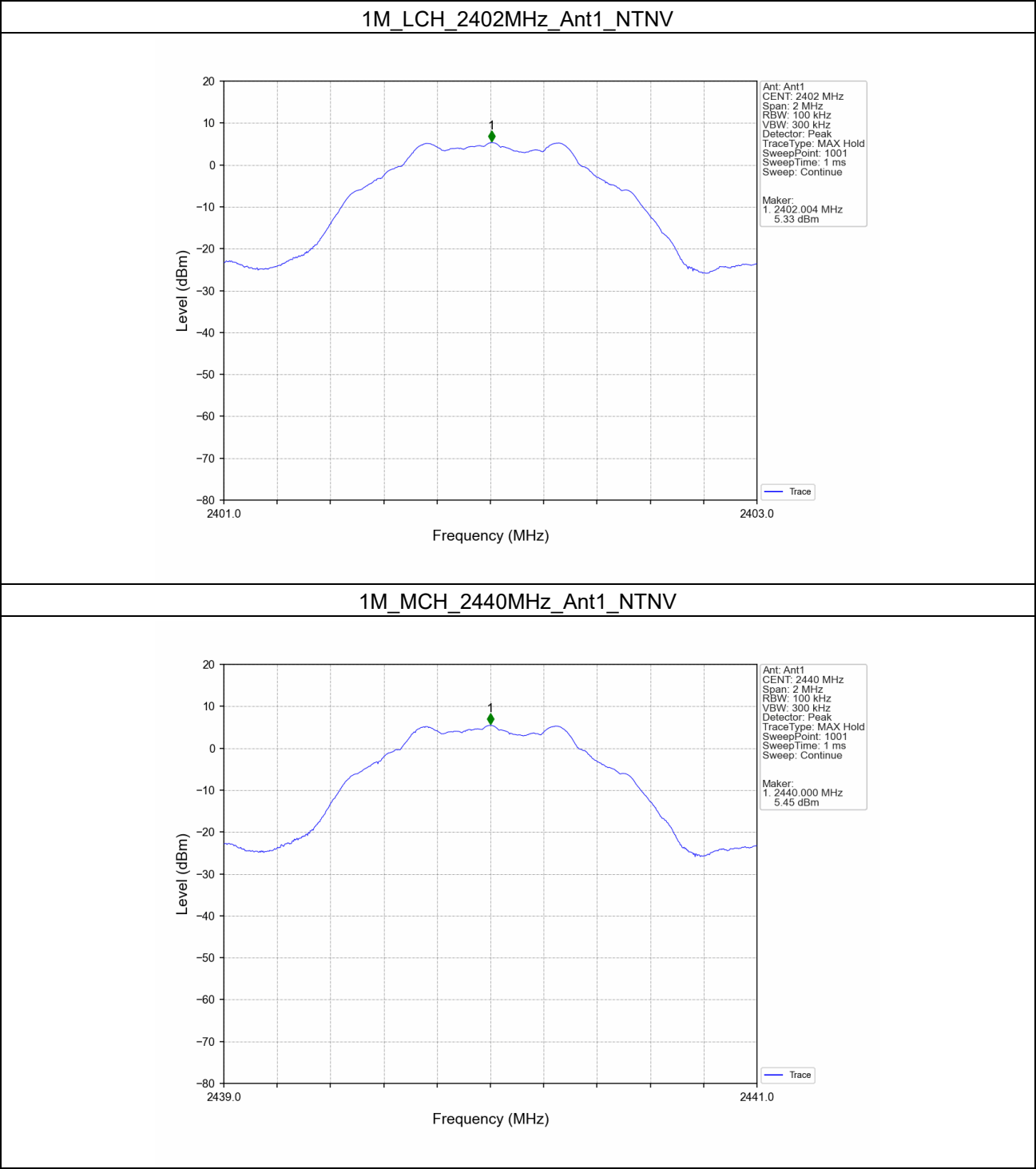
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5.2 Test Graph

5.2.1 Ref



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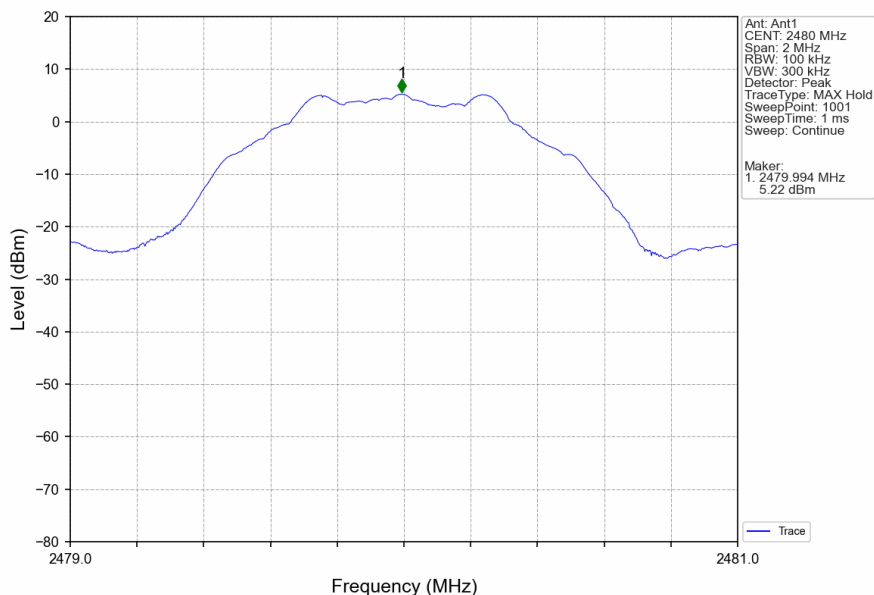
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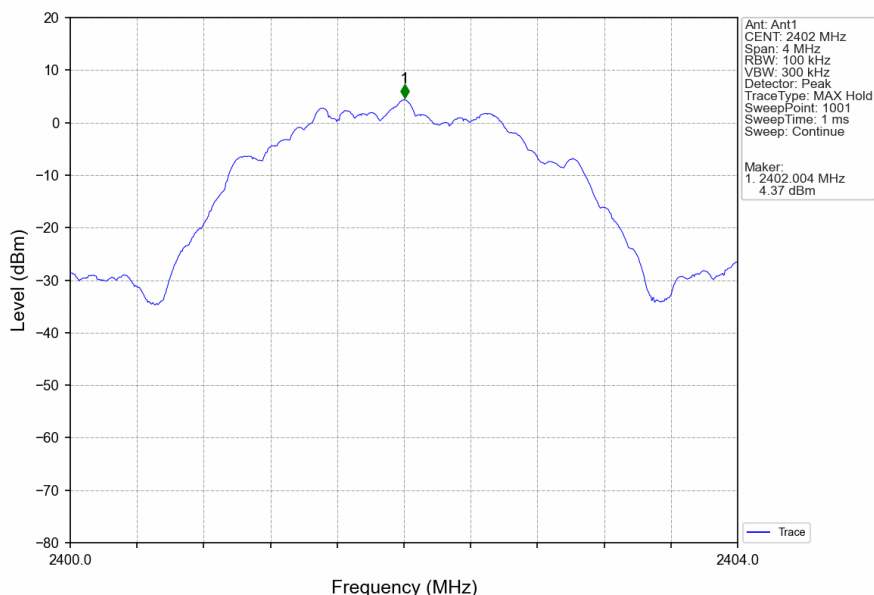
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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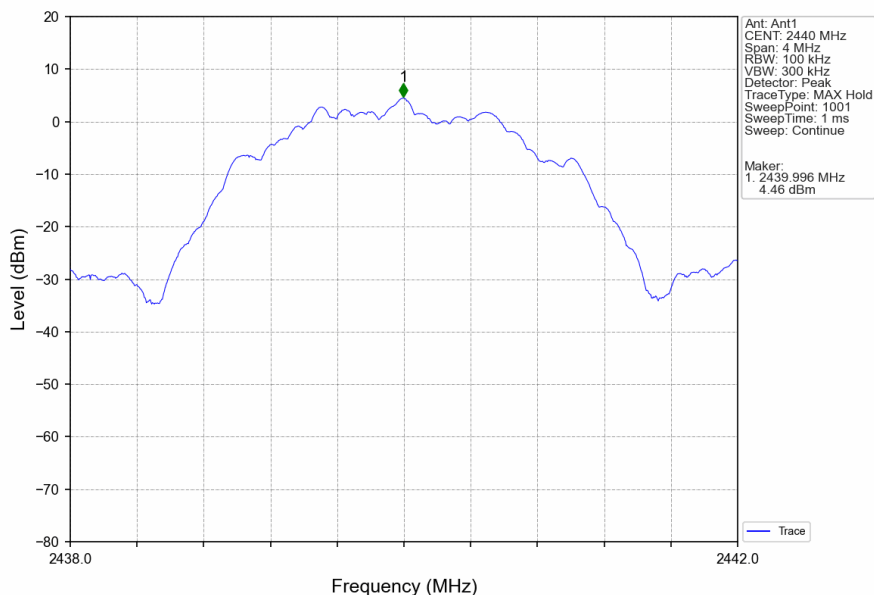
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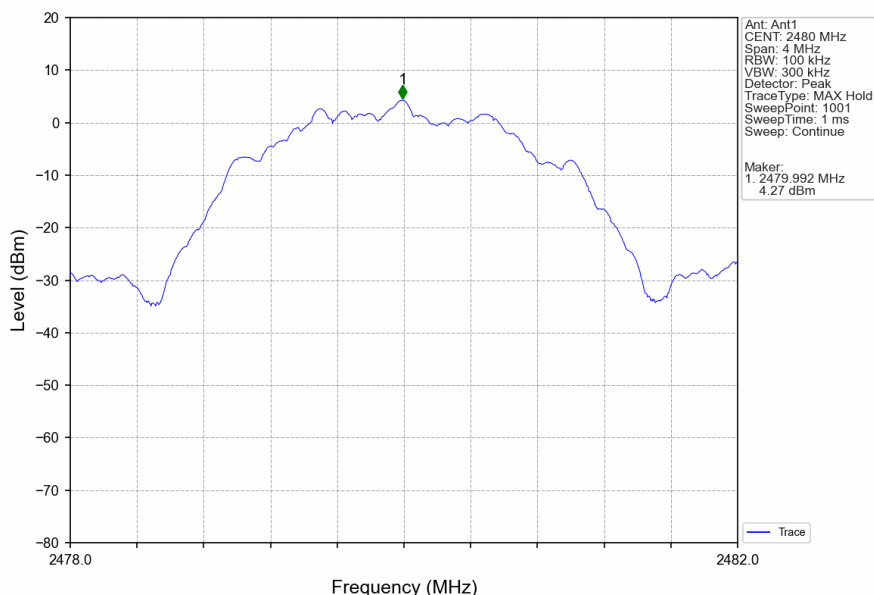
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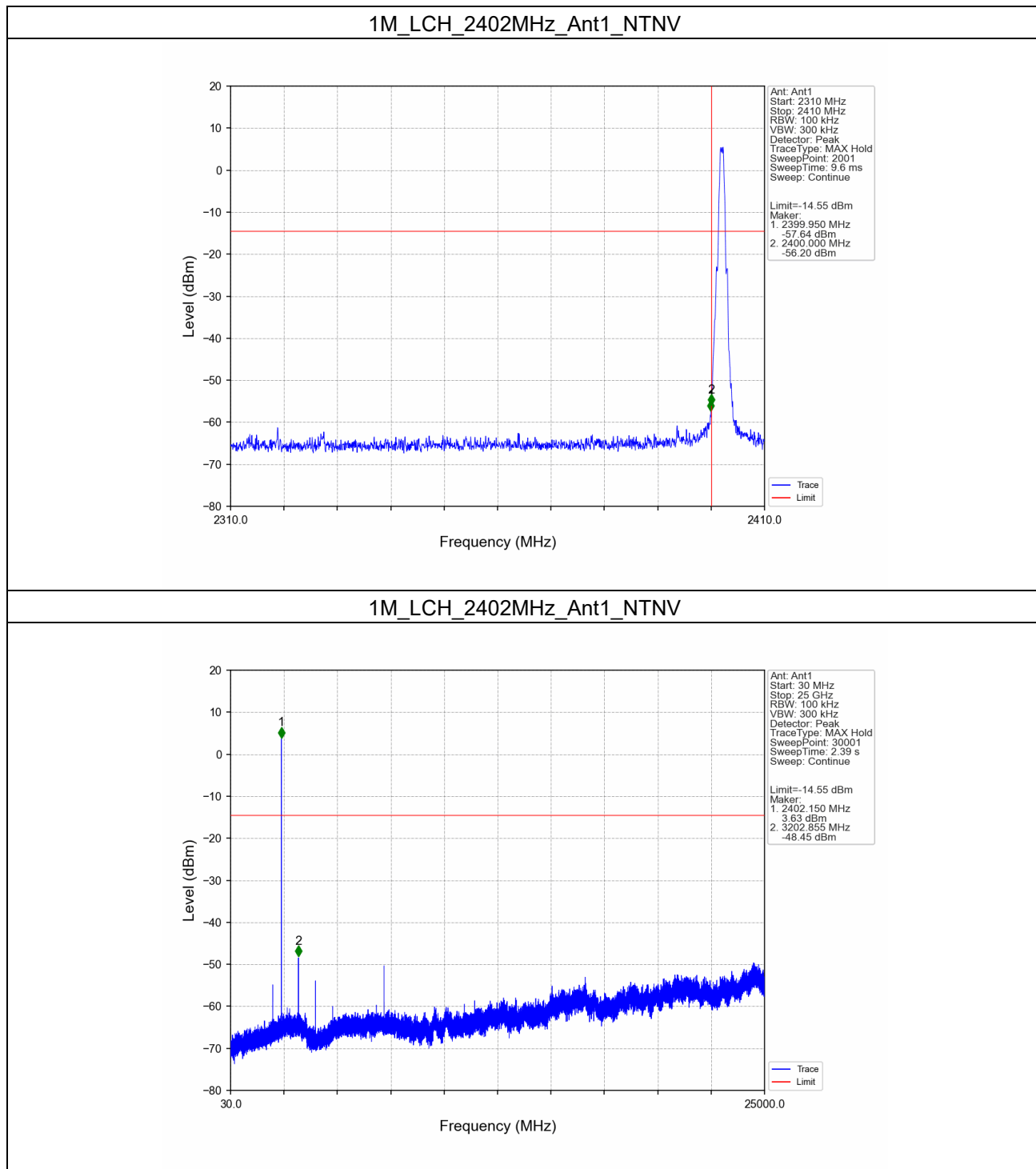
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5.2.2 CSE



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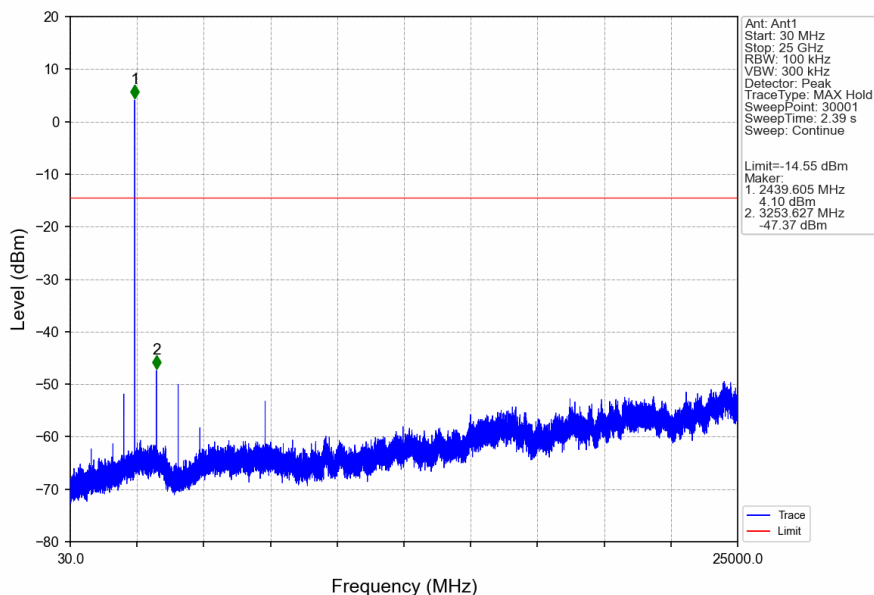
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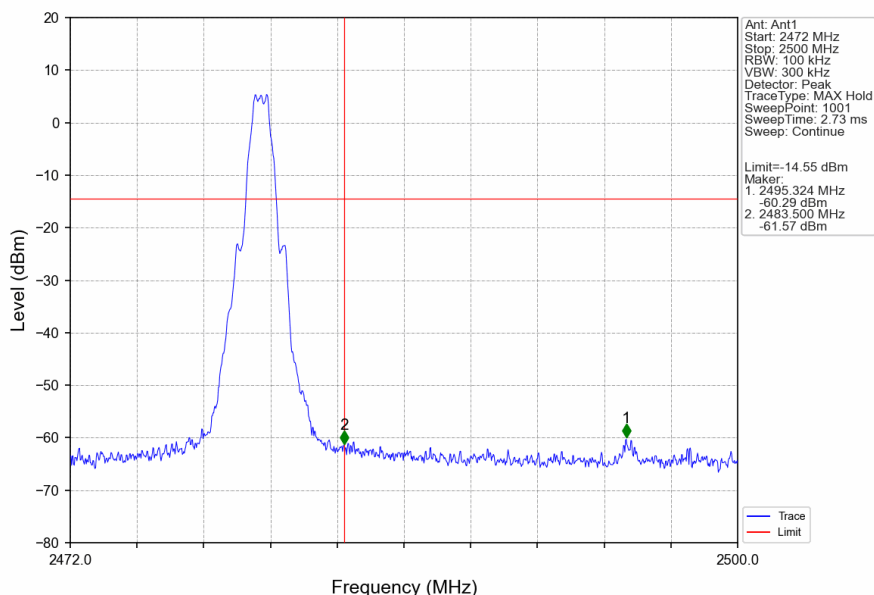
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



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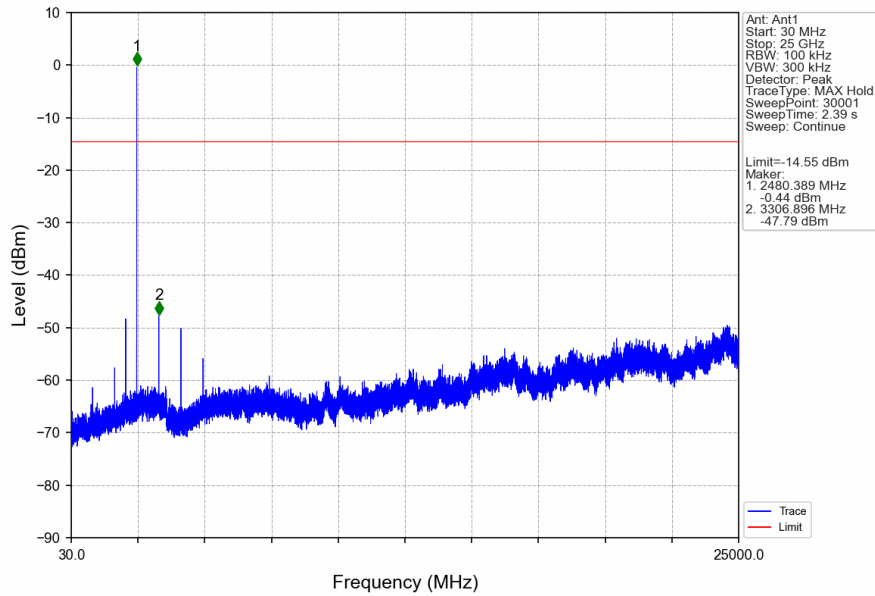
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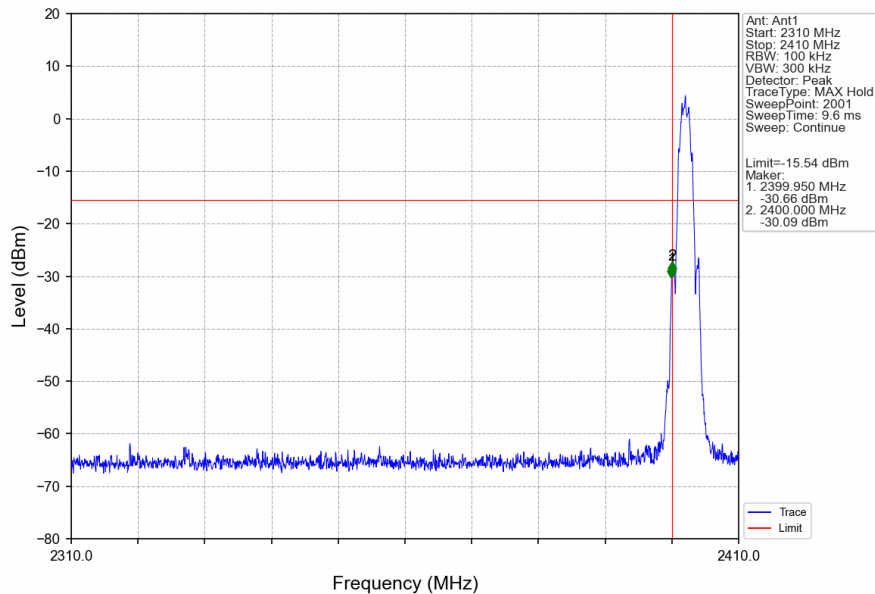
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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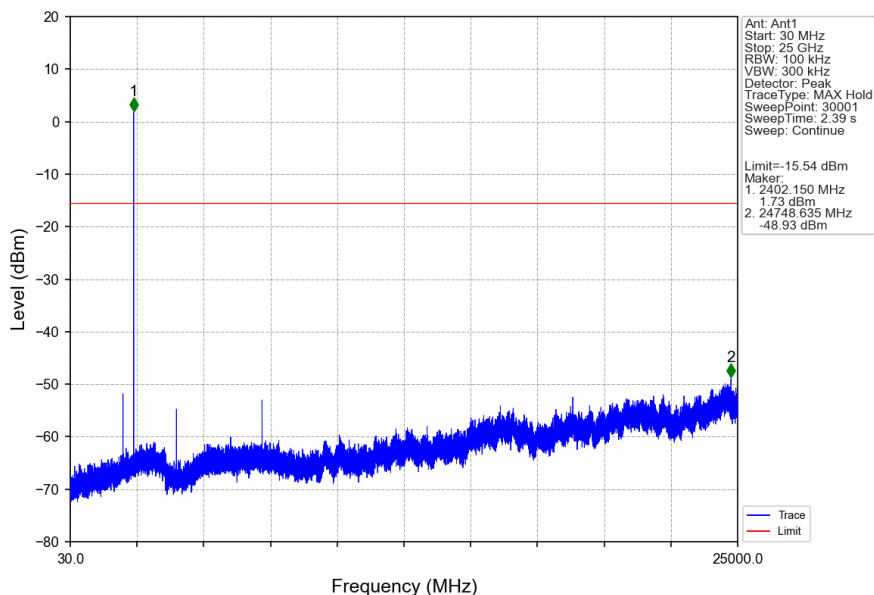
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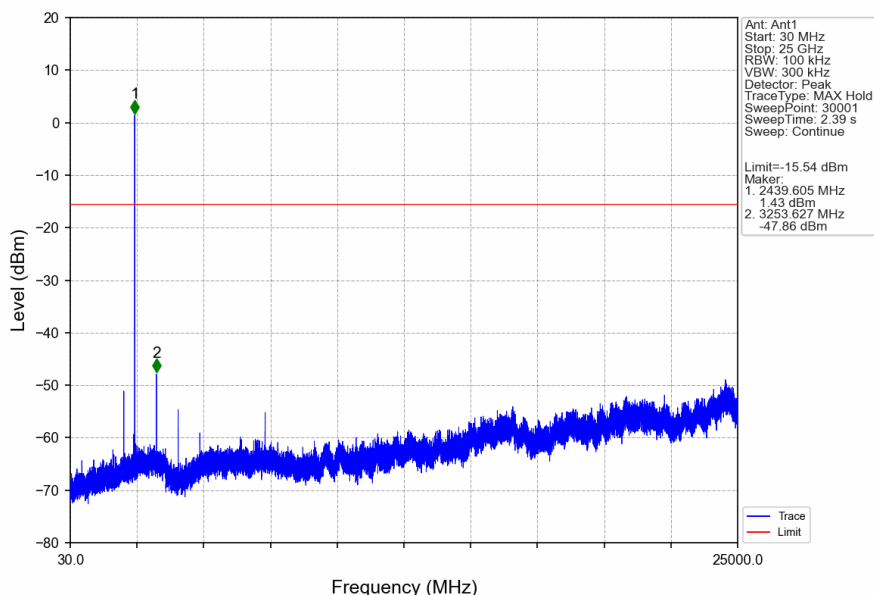
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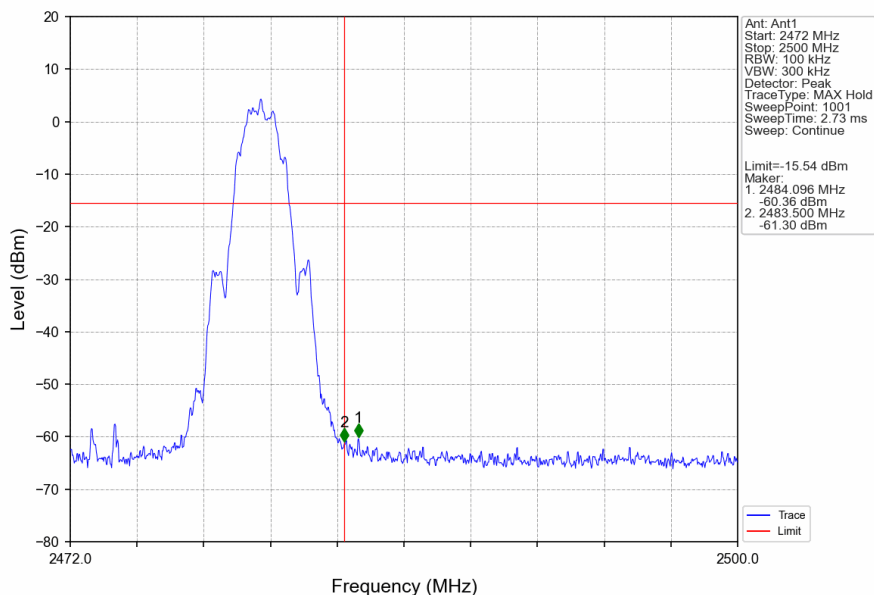
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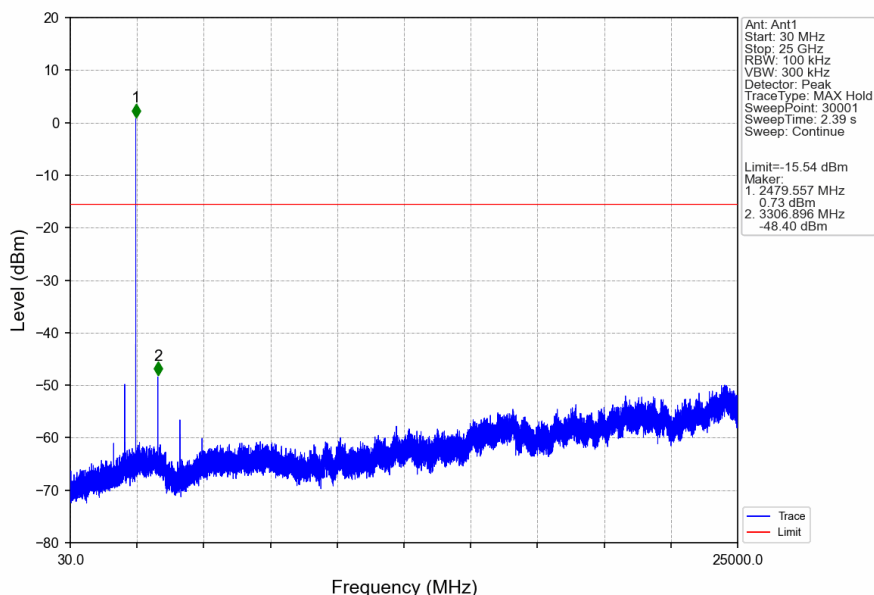
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2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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11 Appendix---Antenna2

1. Duty Cycle

1.1 Test Result

Ant2							
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	0.01
		2480	0.397	0.625	63.52	1.97	0.02
2M	SISO	2402	0.200	0.625	32.00	4.95	0.02
		2440	0.200	0.625	32.00	4.95	0.02
		2480	0.200	0.625	32.00	4.95	0.03



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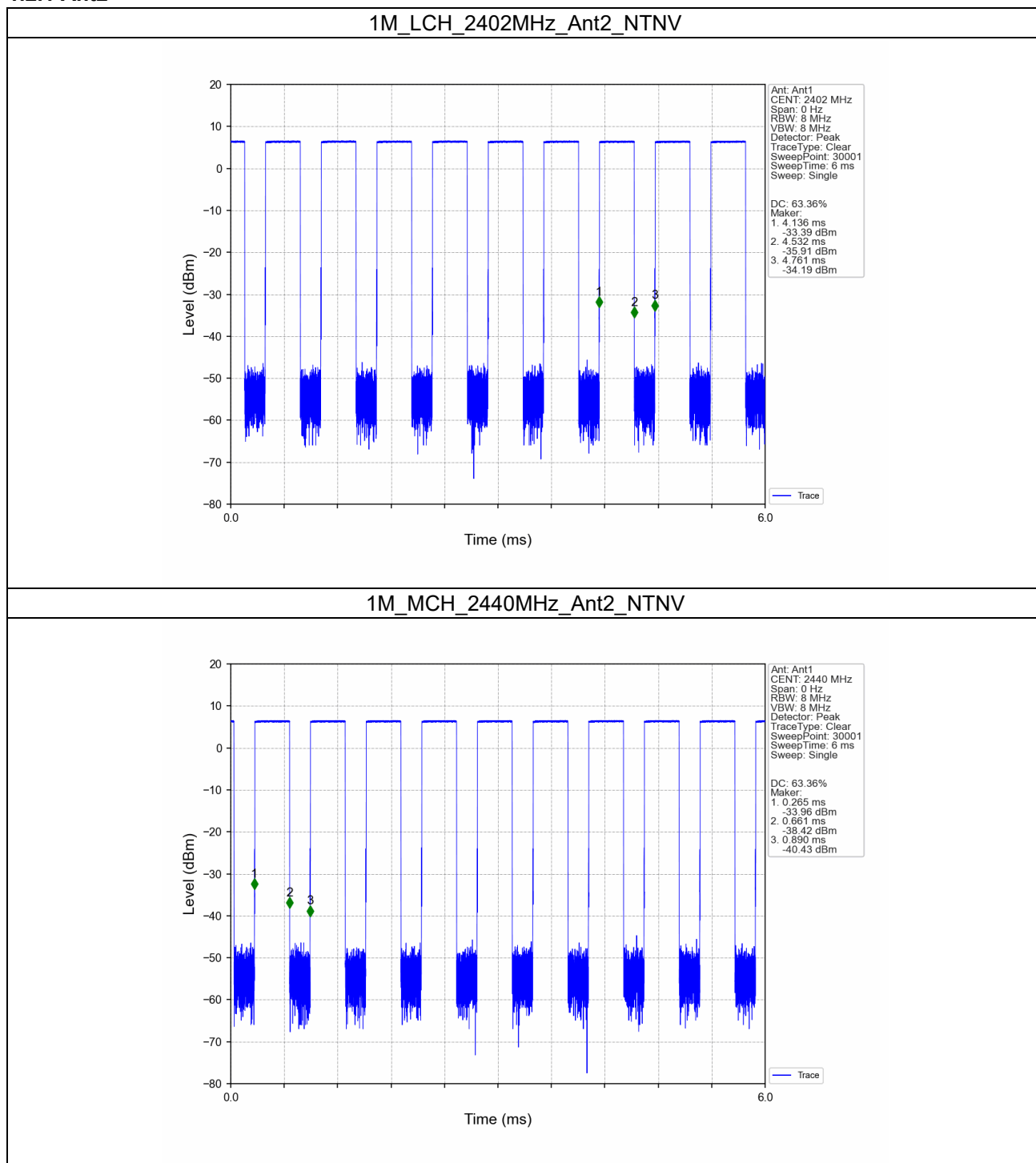
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1.2 Test Graph

1.2.1 Ant2



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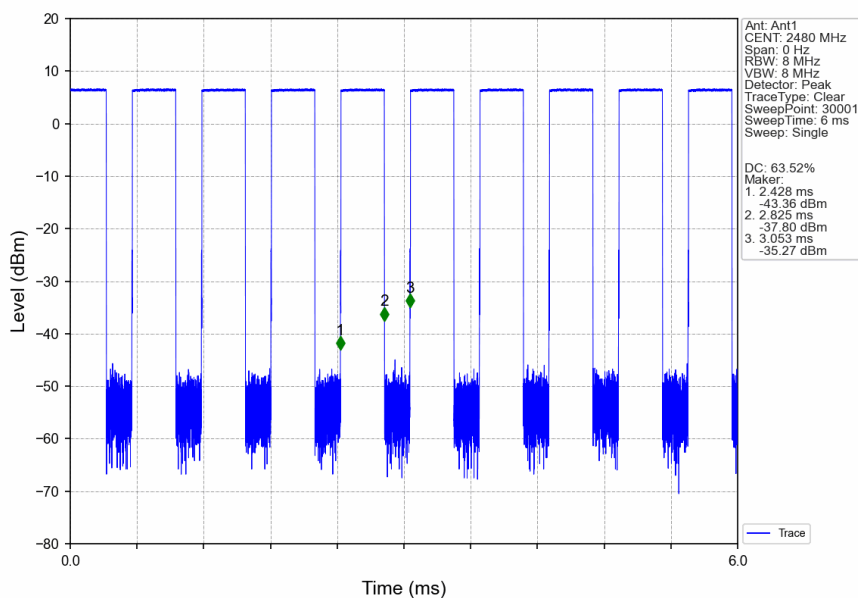
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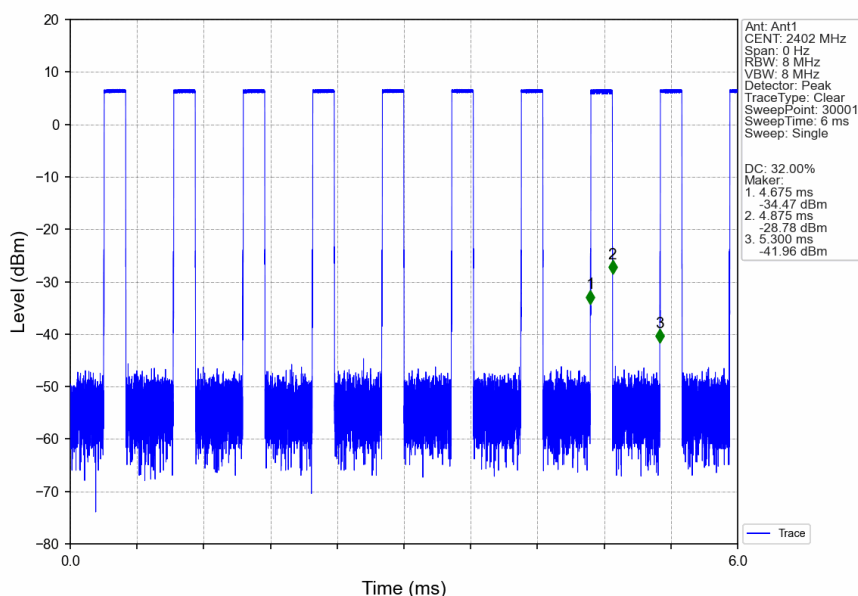
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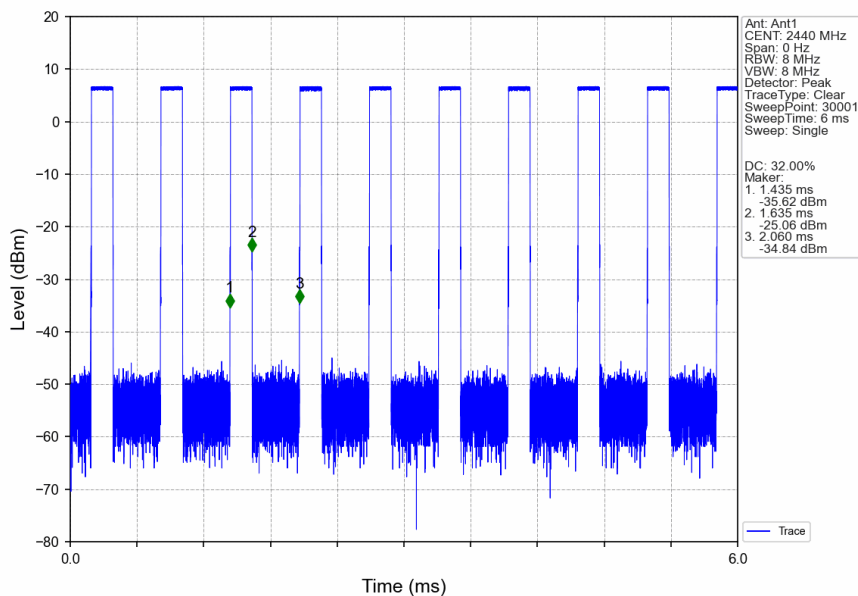
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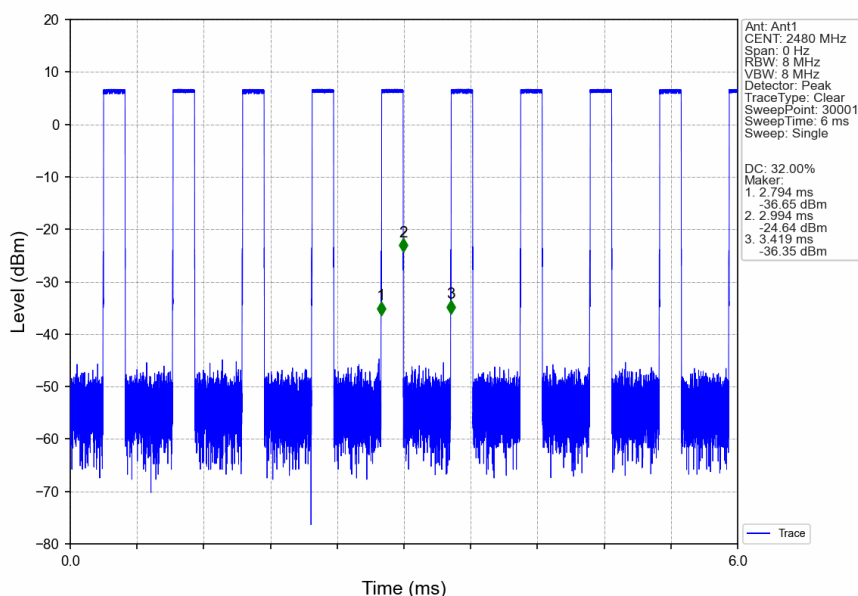
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2. Bandwidth

2.1 Test Result

2.1.1 OBW(report only)

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	2	1.050	/	Pass
		2440	2	1.053	/	Pass
		2480	2	1.051	/	Pass
2M	SISO	2402	2	2.083	/	Pass
		2440	2	2.084	/	Pass
		2480	2	2.082	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	2	0.712	≥ 0.5	Pass
		2440	2	0.717	≥ 0.5	Pass
		2480	2	0.709	≥ 0.5	Pass
2M	SISO	2402	2	1.296	≥ 0.5	Pass
		2440	2	1.289	≥ 0.5	Pass
		2480	2	1.293	≥ 0.5	Pass



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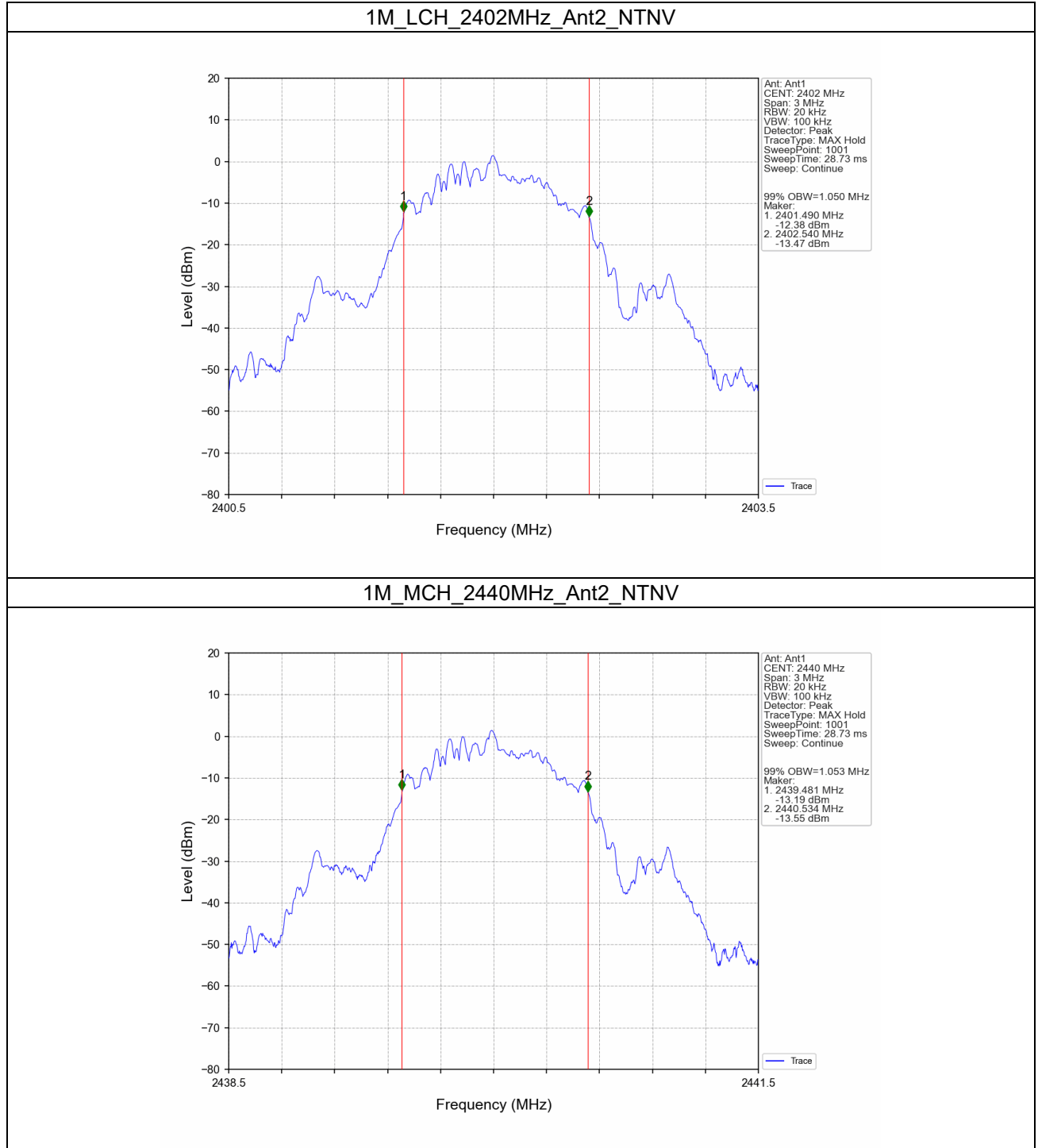
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2.2 Test Graph

2.2.1 OBW



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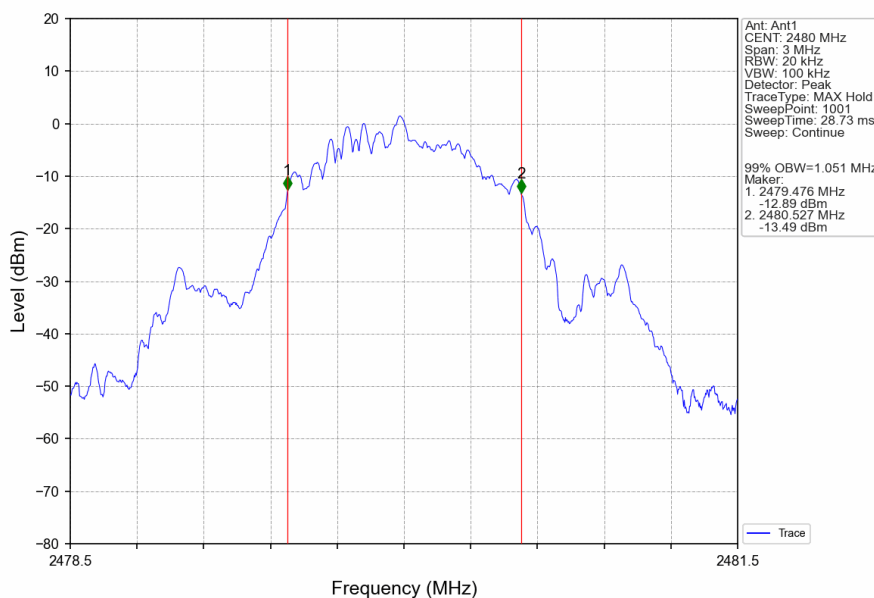
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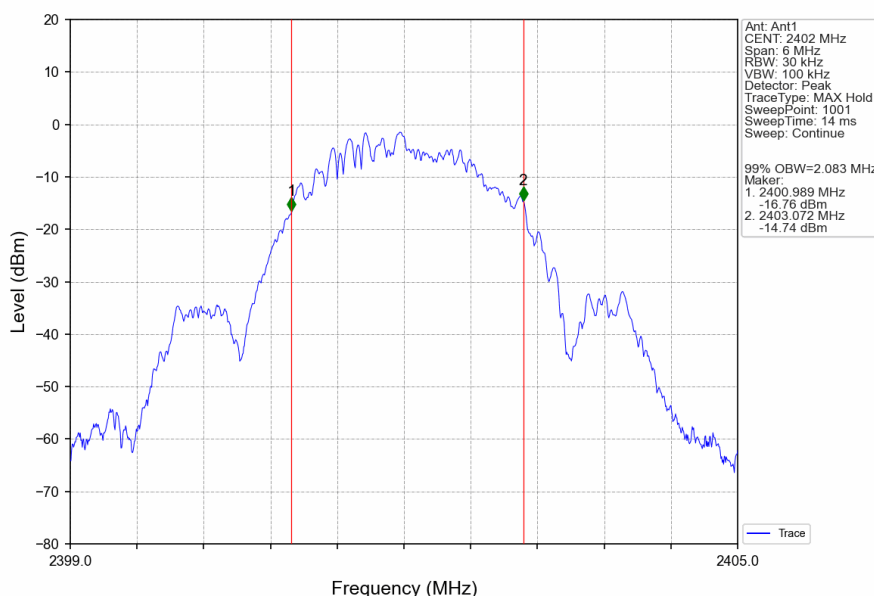
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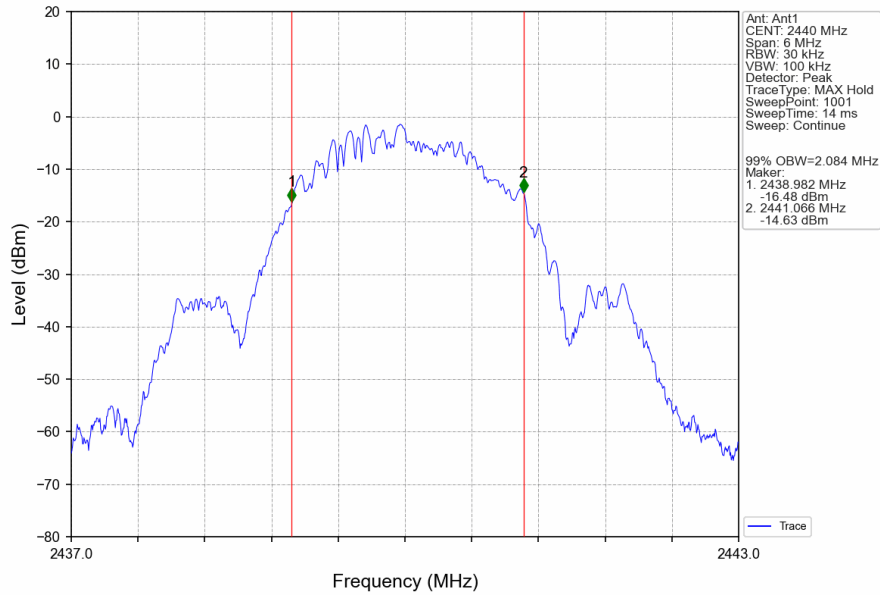
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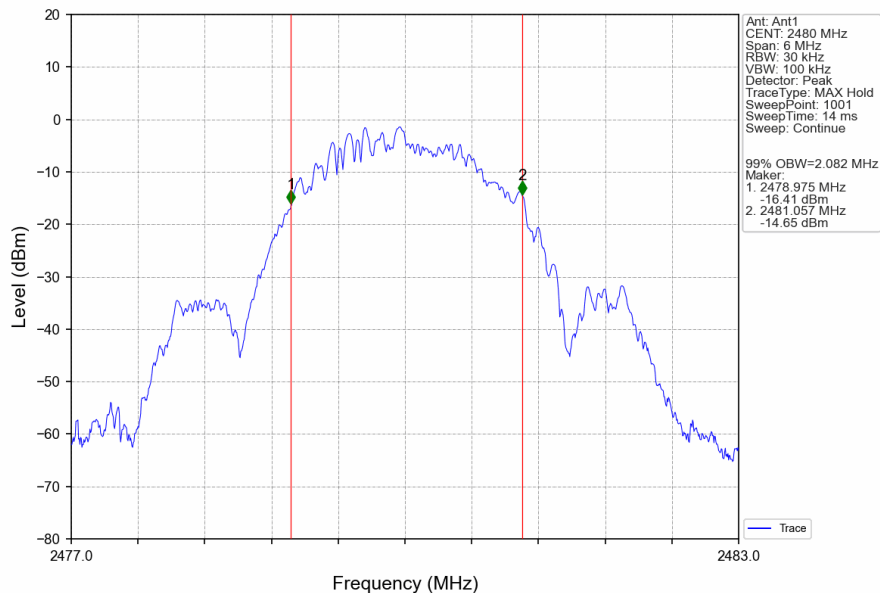
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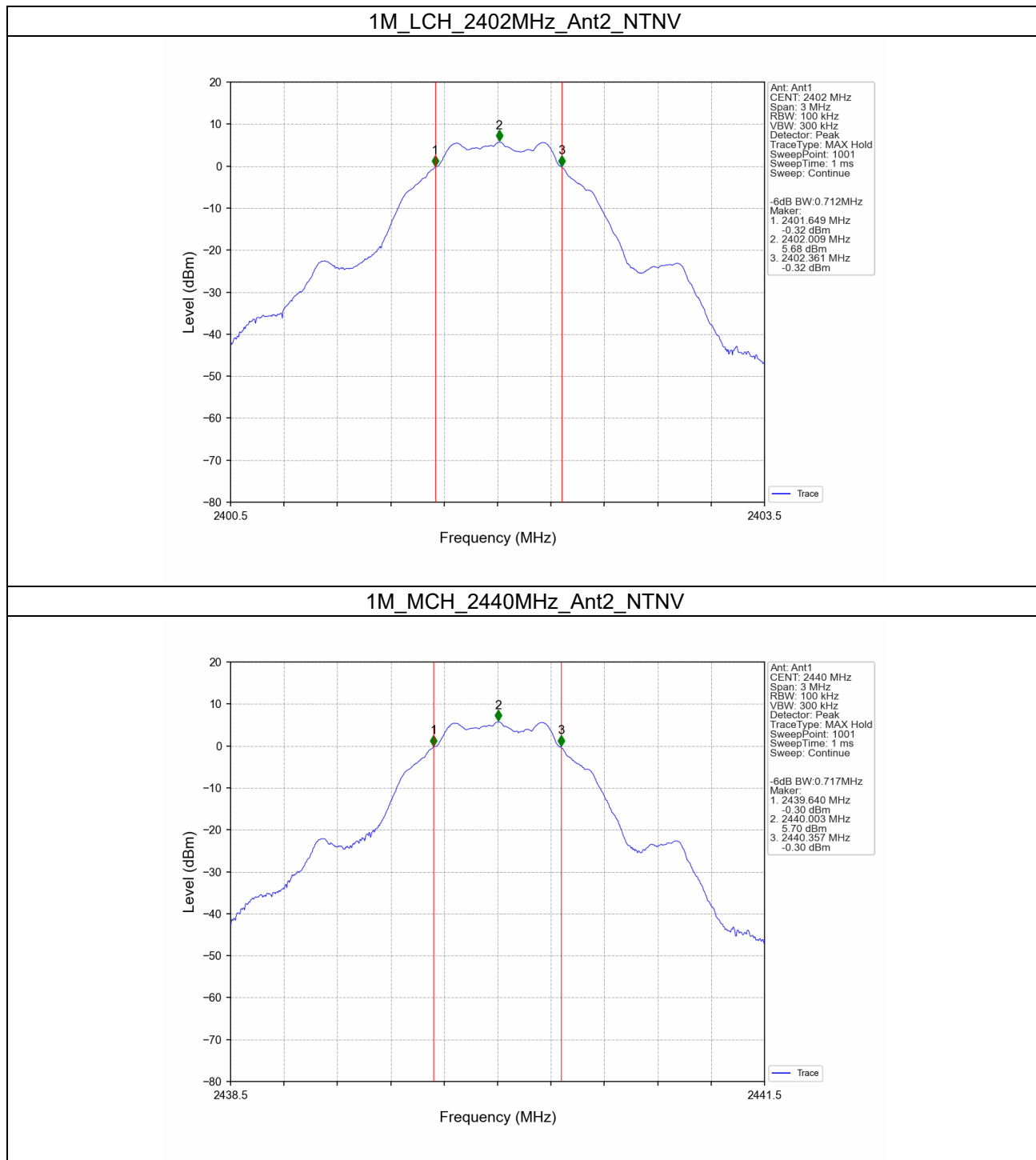
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2.2.2 6dB BW



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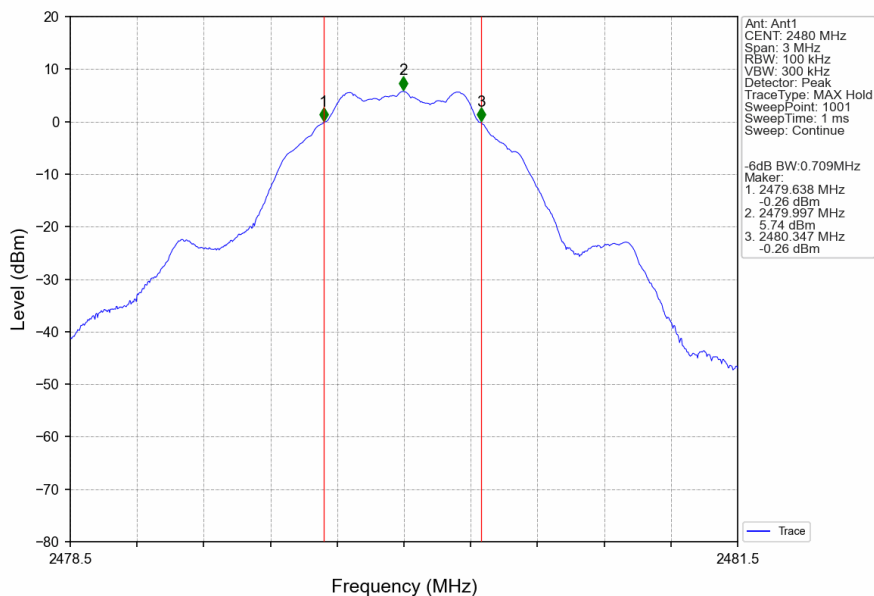
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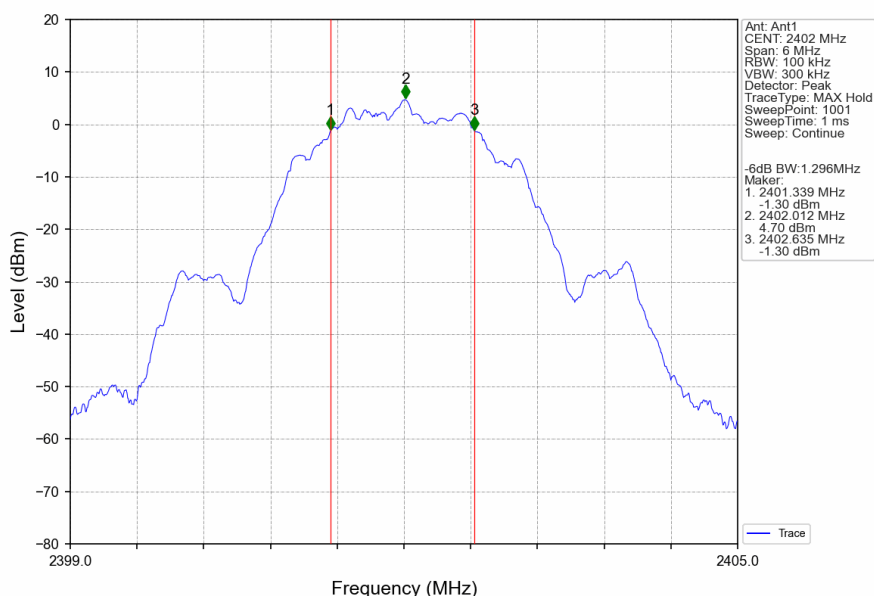
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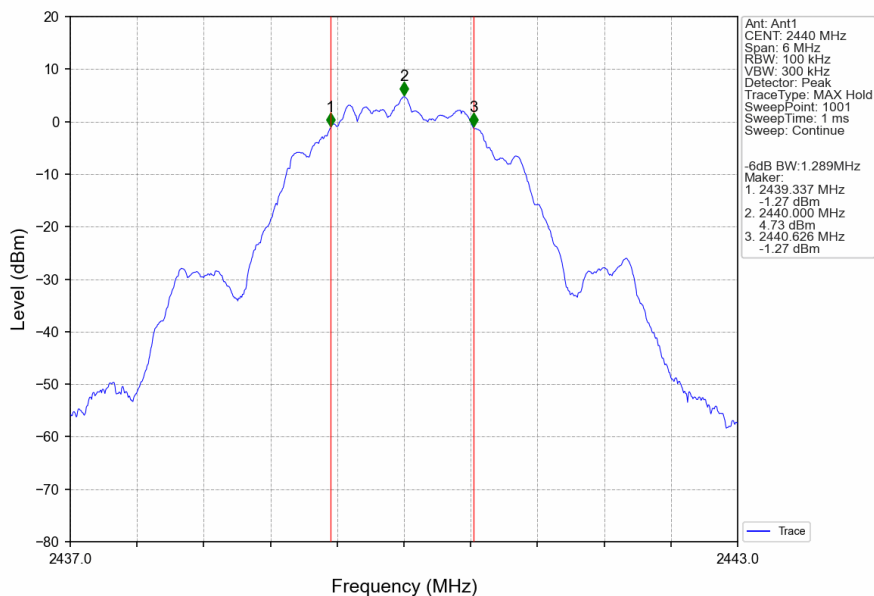
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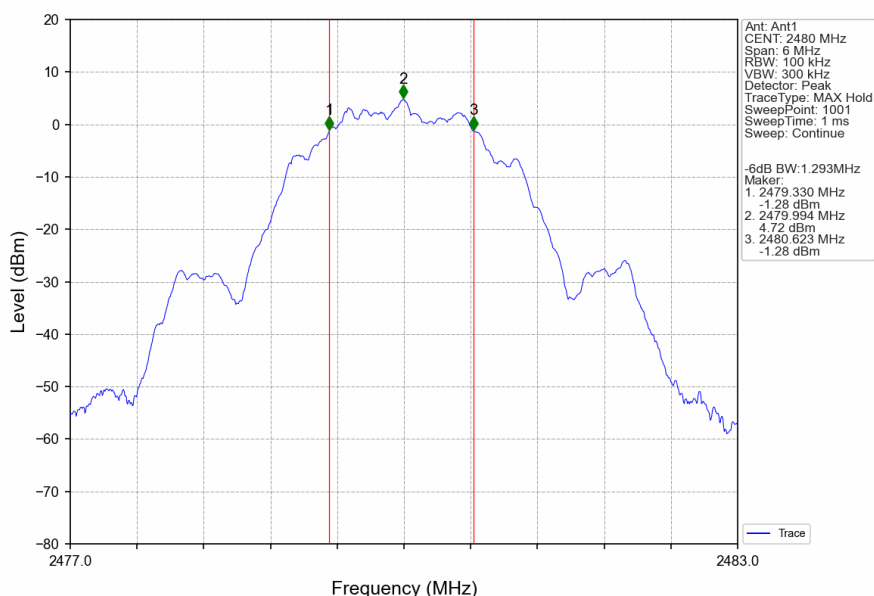
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2M_HCH_2480MHz_Ant2_NTNV



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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
			ANT2	Limit	
1M	SISO	2402	6.51	<=29	Pass
		2440	6.51	<=29	Pass
		2480	6.56	<=29	Pass
2M	SISO	2402	6.57	<=29	Pass
		2440	6.56	<=29	Pass
		2480	6.59	<=29	Pass

Note1: Antenna Gain: Ant2: 7.00dBi;

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT2	Limit(dBm/3kHz)	
1M	SISO	2402	5.71dBm/100kHz	<=8	Pass
		2440	5.68dBm/100kHz	<=8	Pass
		2480	5.71dBm/100kHz	<=8	Pass
2M	SISO	2402	4.74dBm/100kHz	<=8	Pass
		2440	4.74dBm/100kHz	<=8	Pass
		2480	4.74dBm/100kHz	<=8	Pass

Note1: Antenna Gain: Ant2: 7.00dBi;



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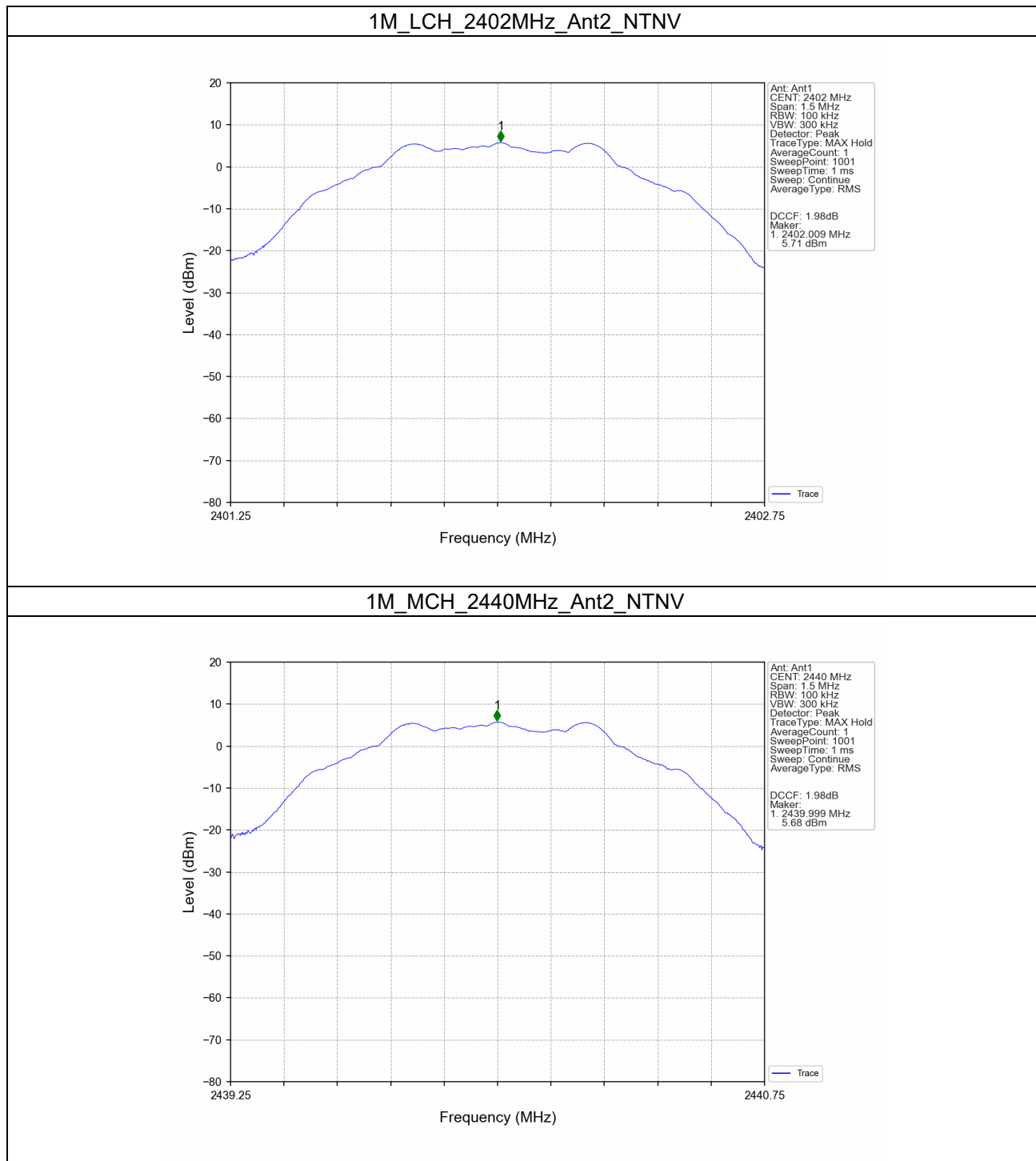
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4.2 Test Graph

4.2.1 PSD



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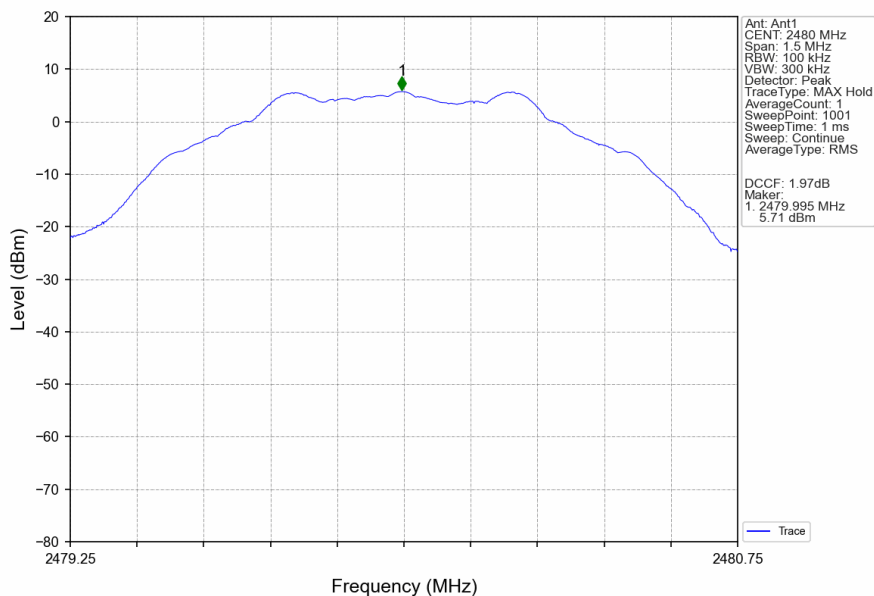
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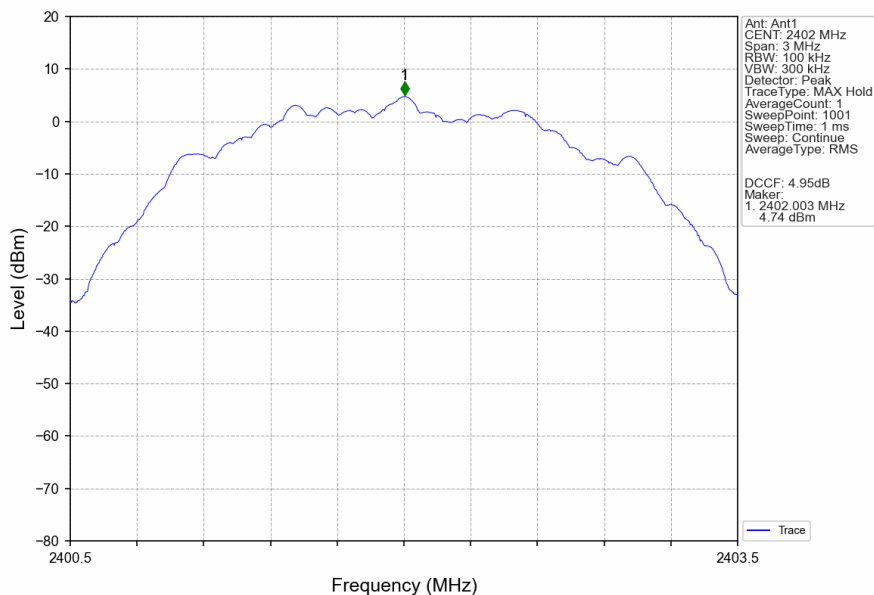
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2M_LCH_2402MHz_Ant2_NTNV



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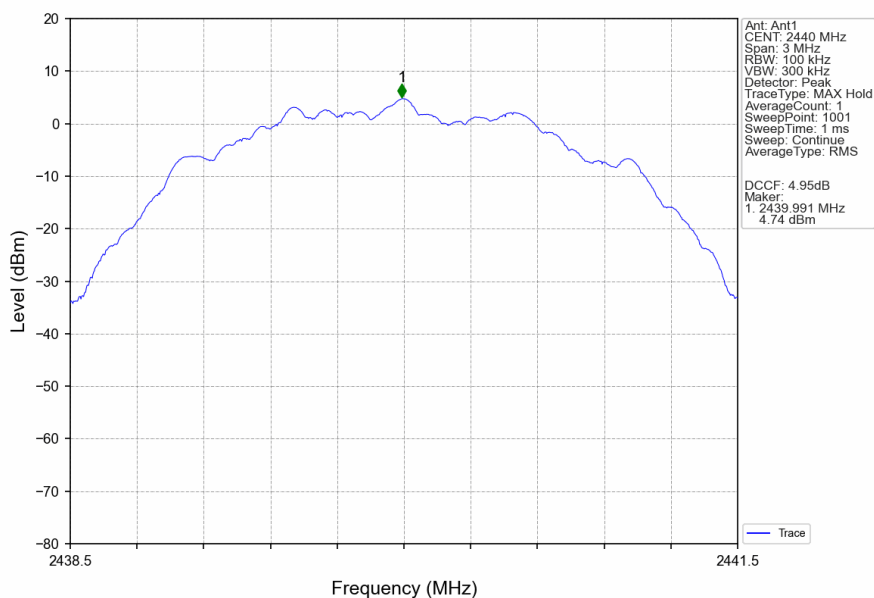
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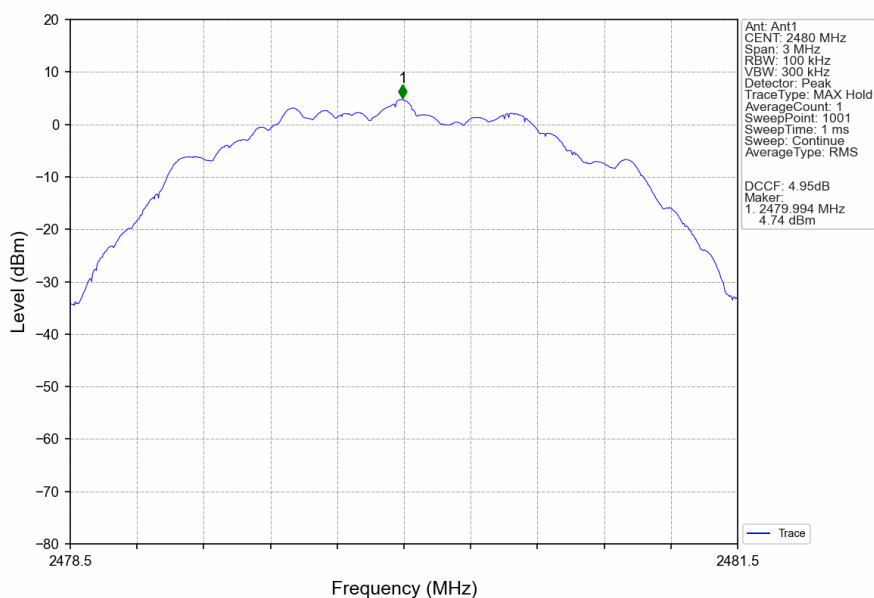
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	2	5.71
		2440	2	5.71
		2480	2	5.71
2M	SISO	2402	2	4.72
		2440	2	4.70
		2480	2	4.73

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	2	5.71	-14.29	Pass
		2440	2	5.71	-14.29	Pass
		2480	2	5.71	-14.29	Pass
2M	SISO	2402	2	4.73	-15.27	Pass
		2440	2	4.73	-15.27	Pass
		2480	2	4.73	-15.27	Pass



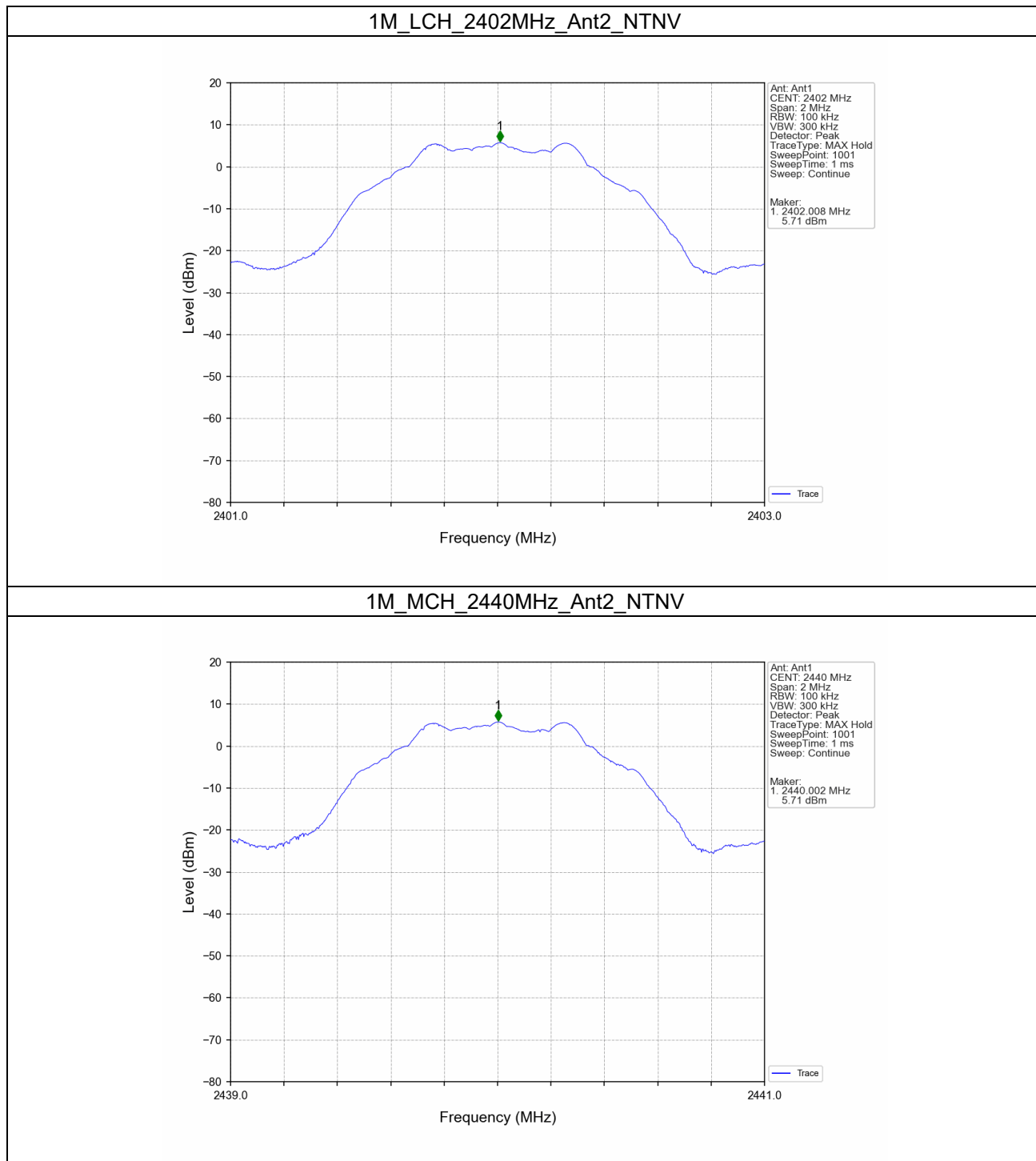
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5.2 Test Graph

5.2.1 Ref



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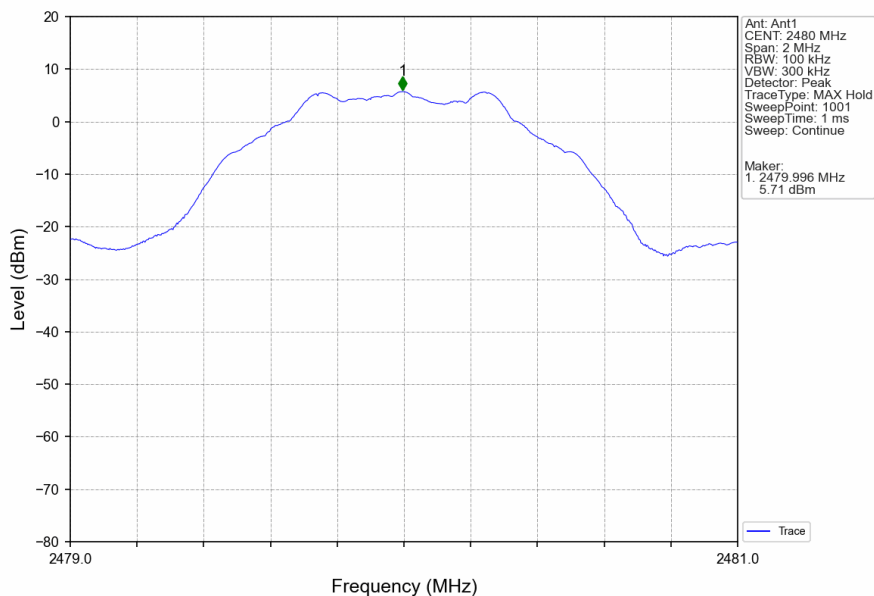
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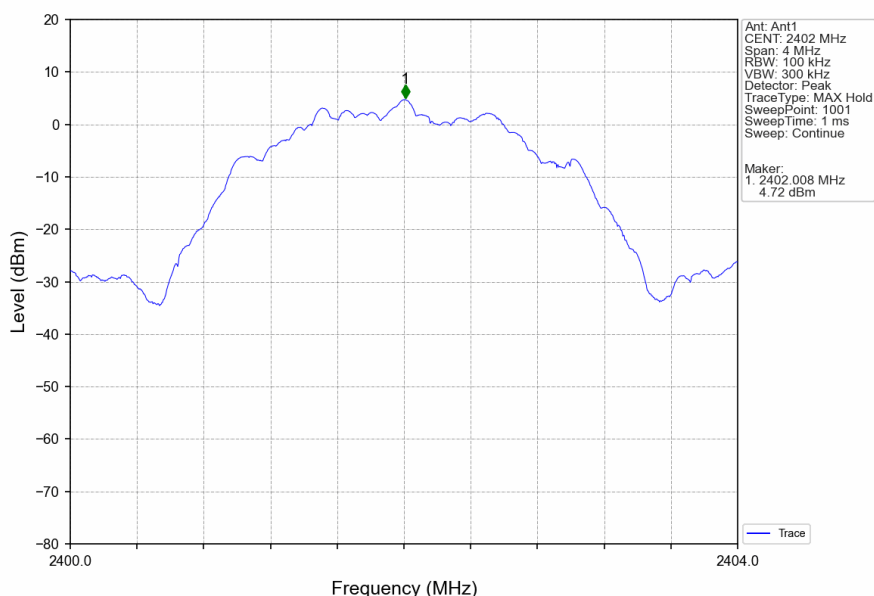
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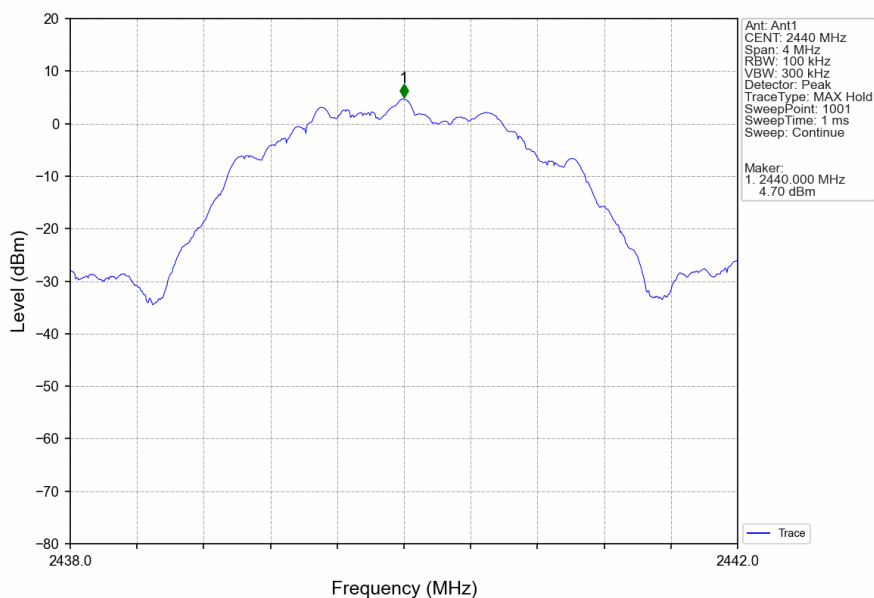
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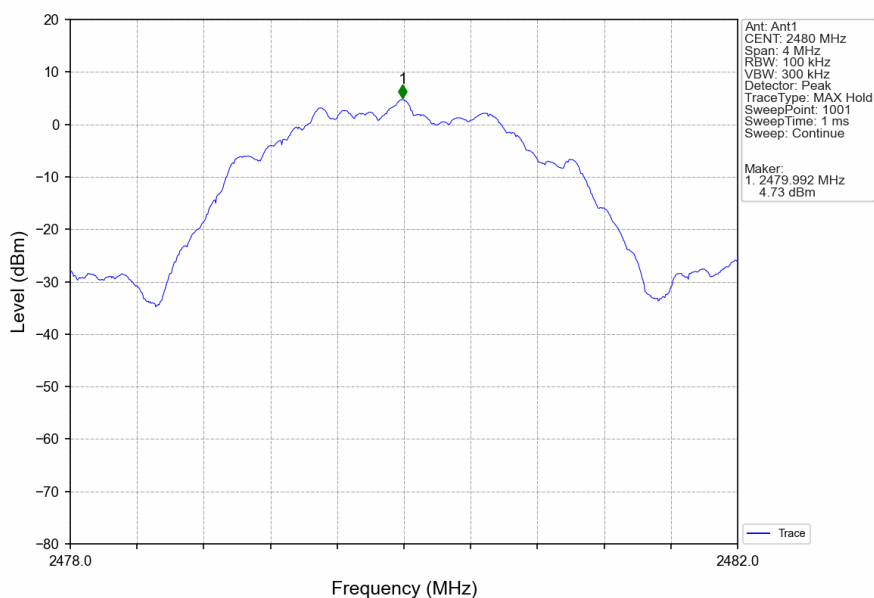
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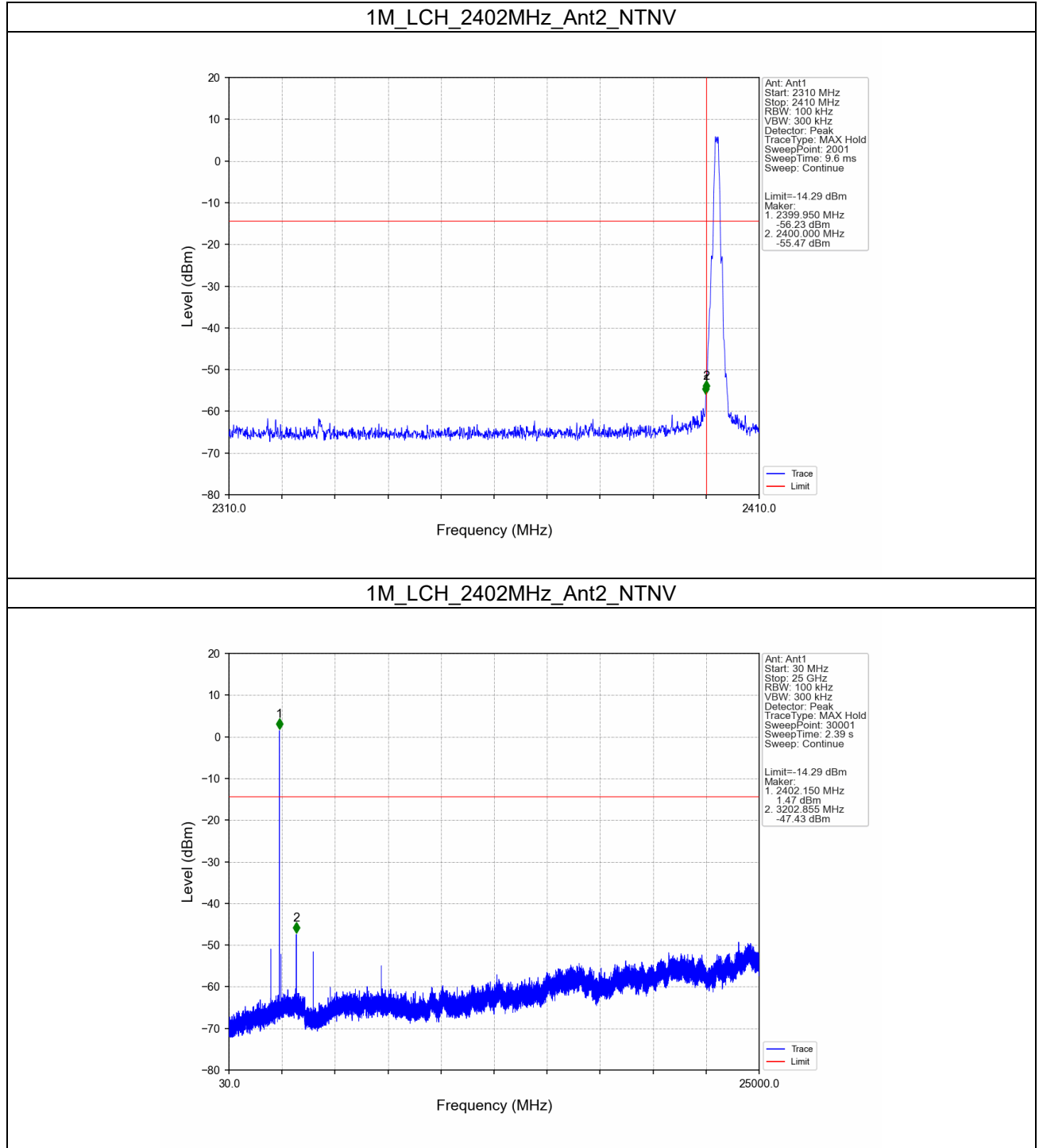
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5.2.2 CSE



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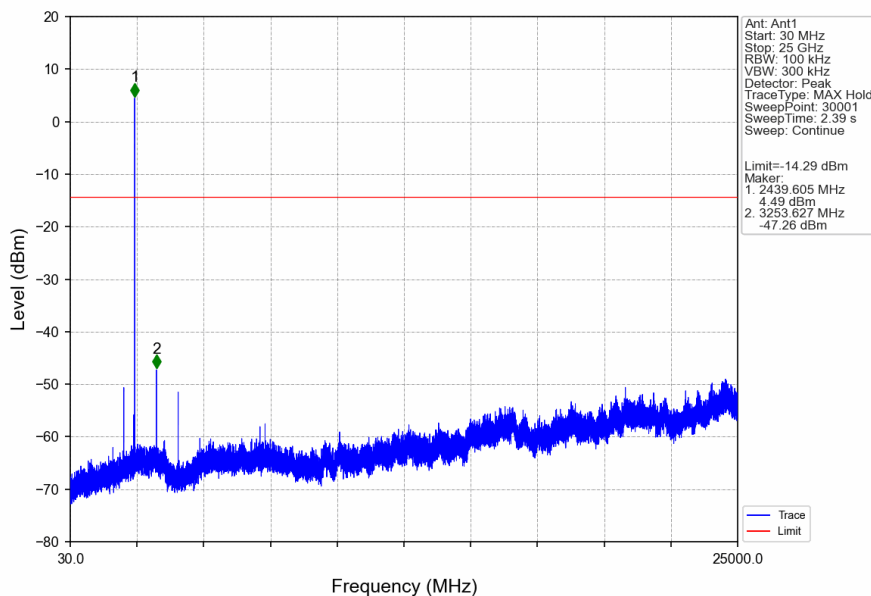
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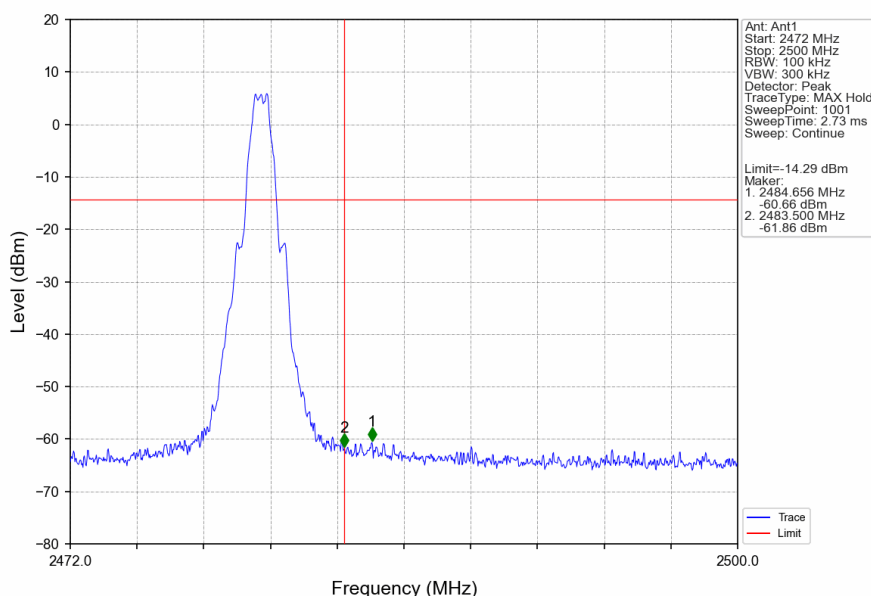
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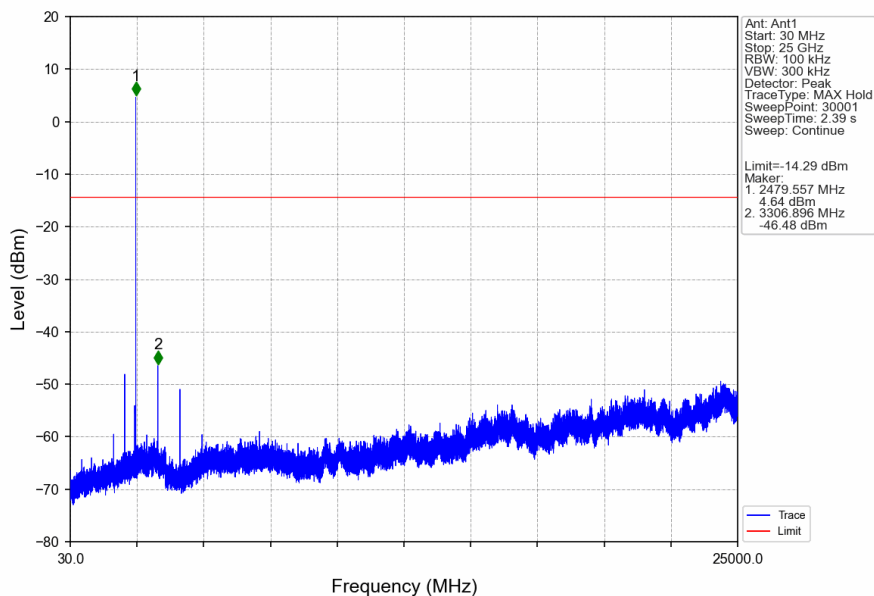
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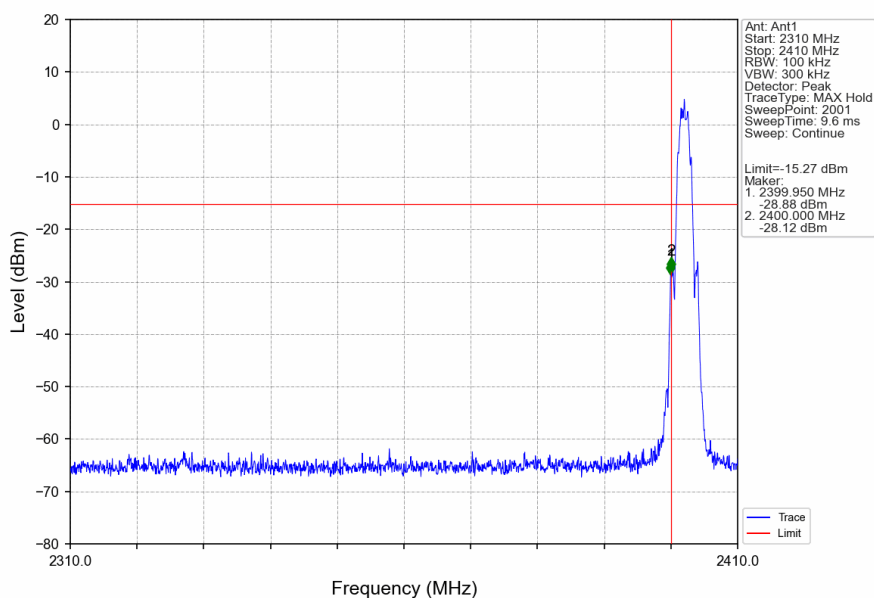
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1M_HCH_2480MHz_Ant2_NTNV



2M_LCH_2402MHz_Ant2_NTNV



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Fuyong lab, Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China 518103 t (86-755) 88663988 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·宝安区福永街道风塘大道鑫龙科技园福永实验室 邮编: 518103 t (86-755) 88663988 f (86-755) 26710594 sgs.china@sgs.com

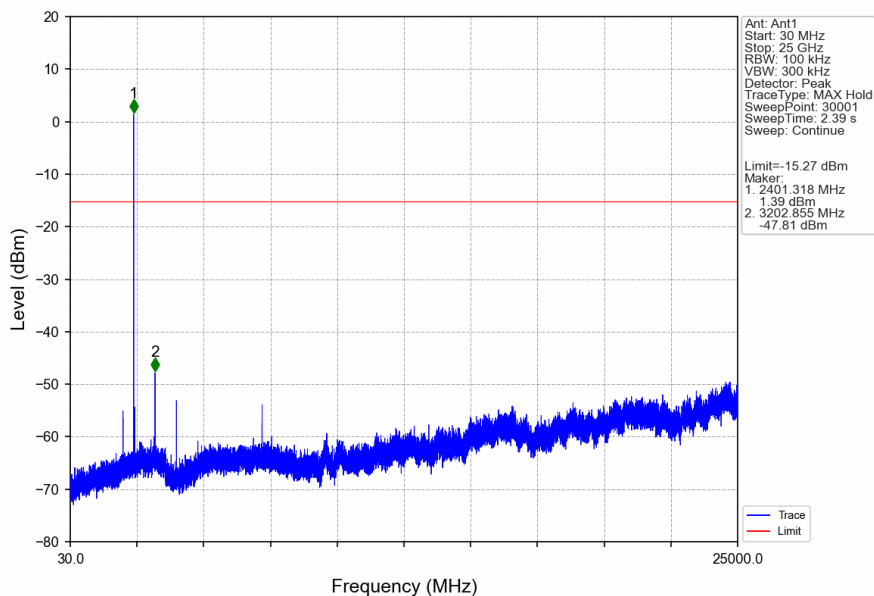
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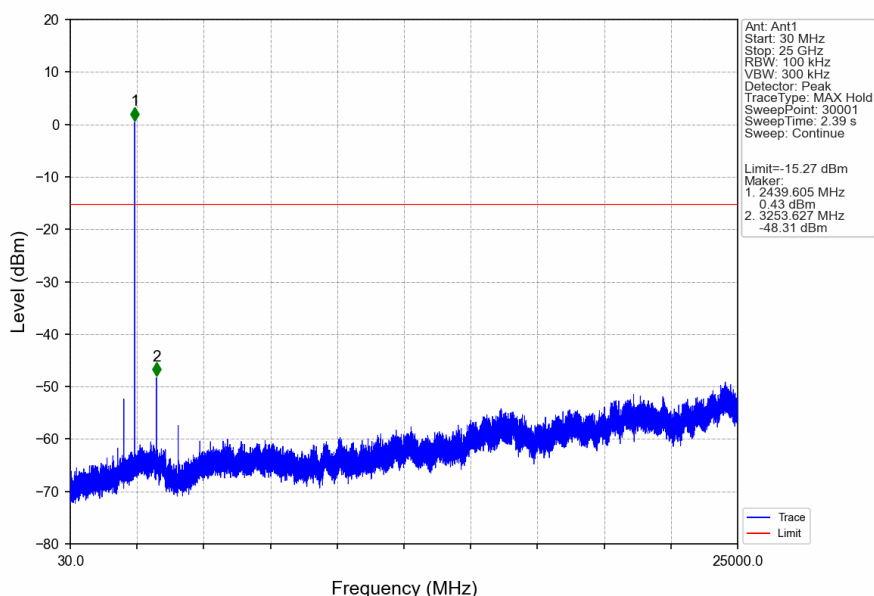
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2M_LCH_2402MHz_Ant2_NTNV



2M_MCH_2440MHz_Ant2_NTNV



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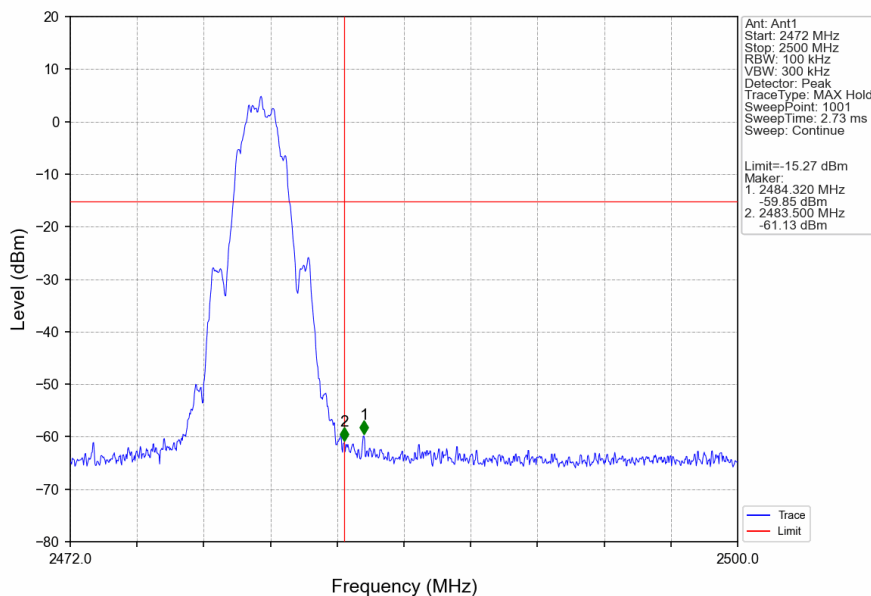
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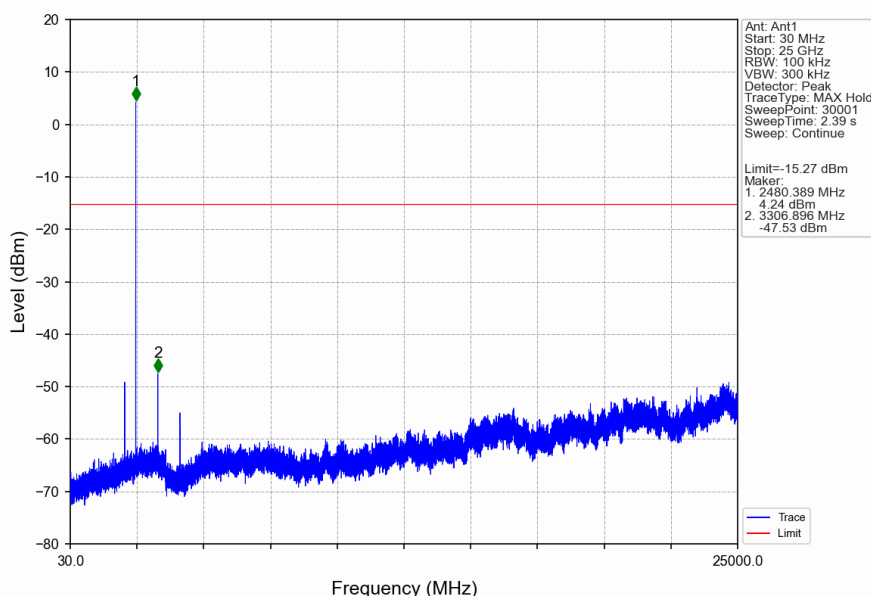
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- End of the Report -



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