

10 Appendix

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 (%)
802.11b	SISO	2412	8.607	8.710	98.82	0.05	0.04
		2437	8.607	8.710	98.82	0.05	0.04
		2462	8.607	8.710	98.82	0.05	0.04
802.11g	SISO	2412	1.429	1.537	92.97	0.32	0.00
		2437	1.429	1.537	92.97	0.32	0.03
		2462	1.430	1.538	92.98	0.32	0.00
802.11n (HT20)	SISO	2412	1.340	1.450	92.41	0.34	0.03
		2437	1.341	1.450	92.48	0.34	0.03
		2462	1.341	1.450	92.48	0.34	0.03



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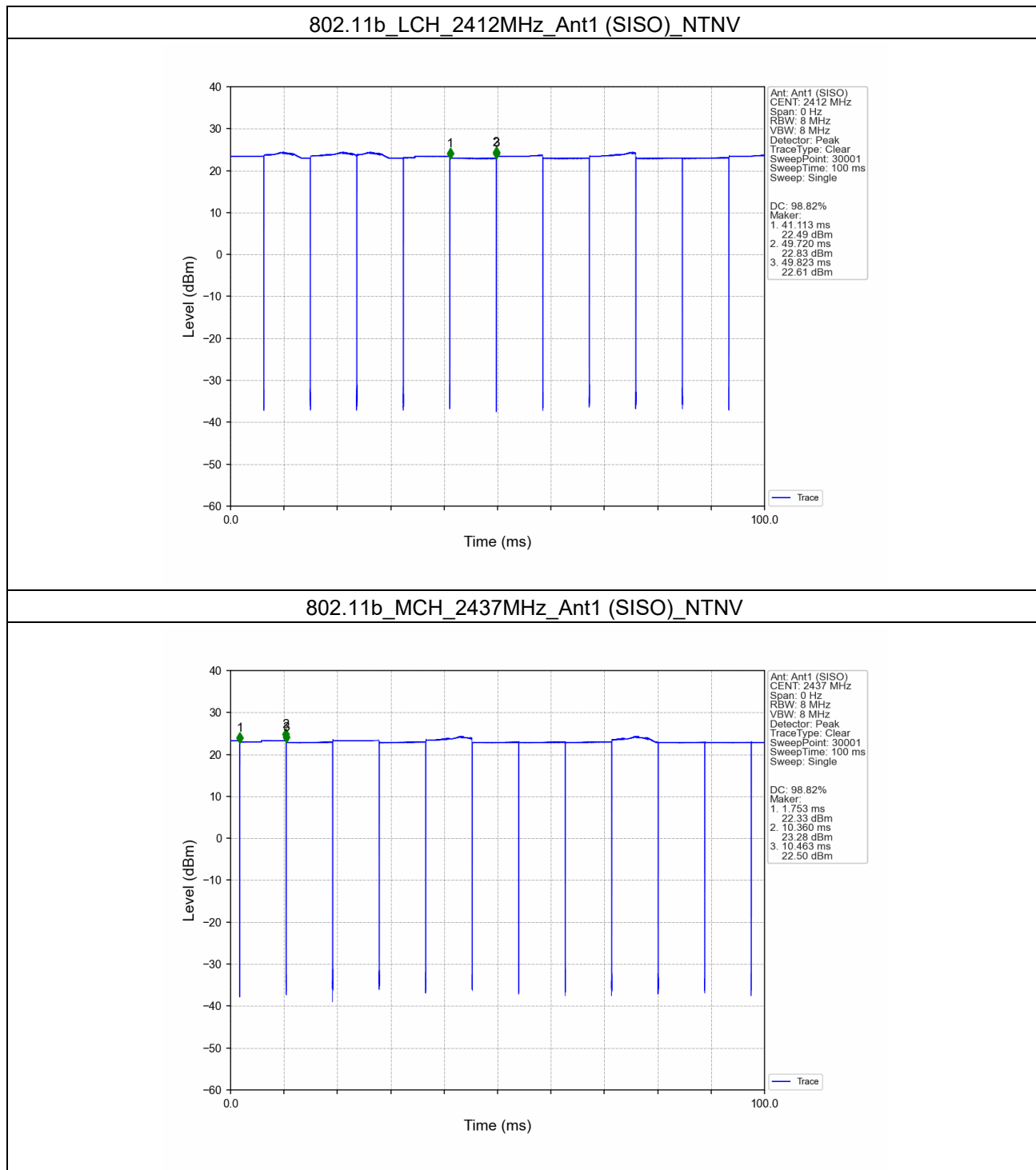
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1.2 Test Graph

1.2.1 Ant1



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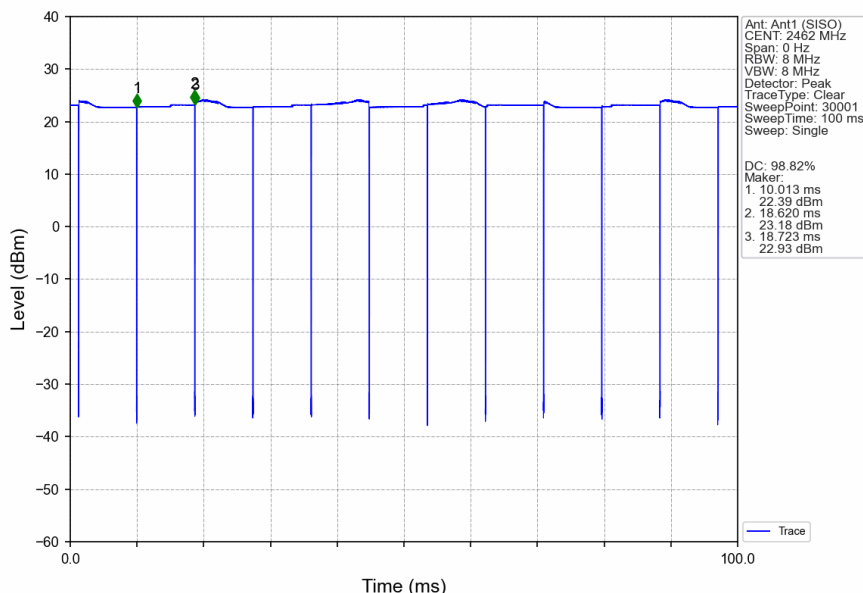
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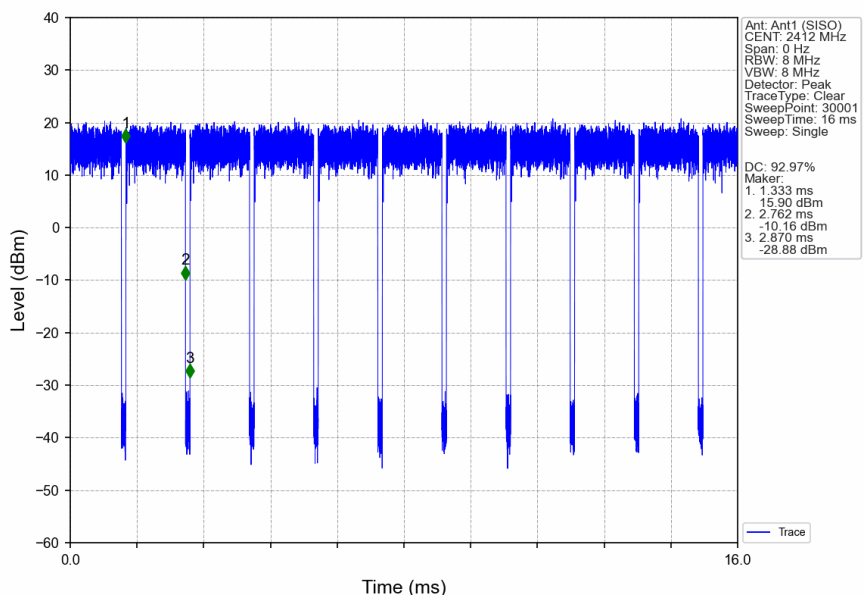
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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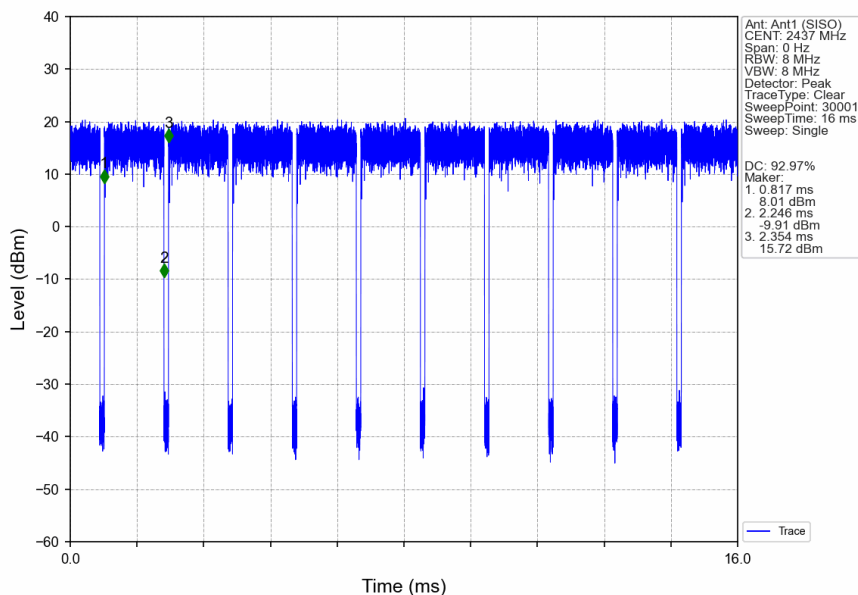
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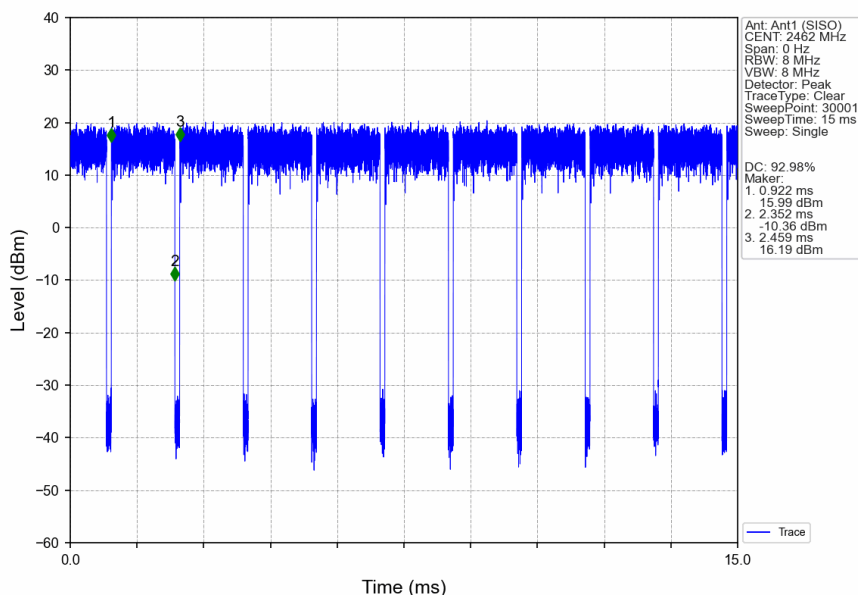
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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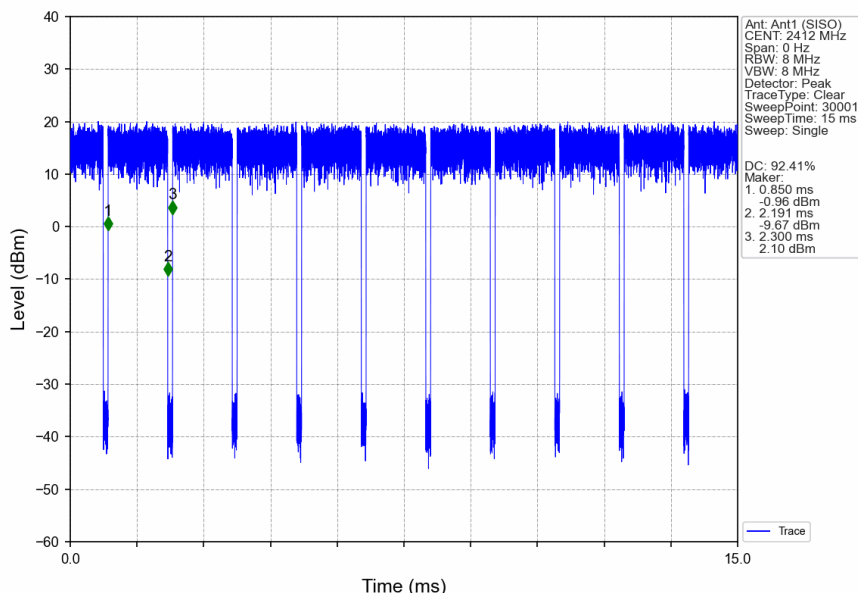
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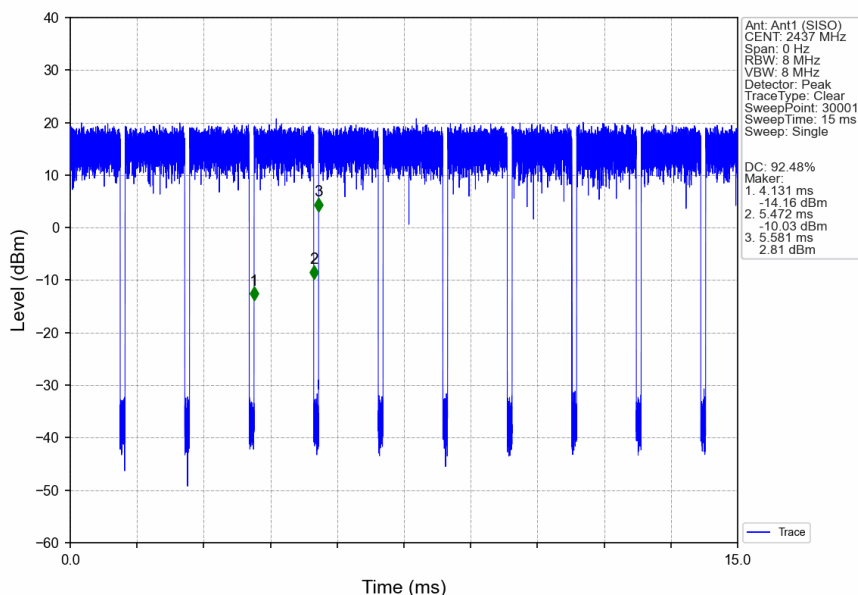
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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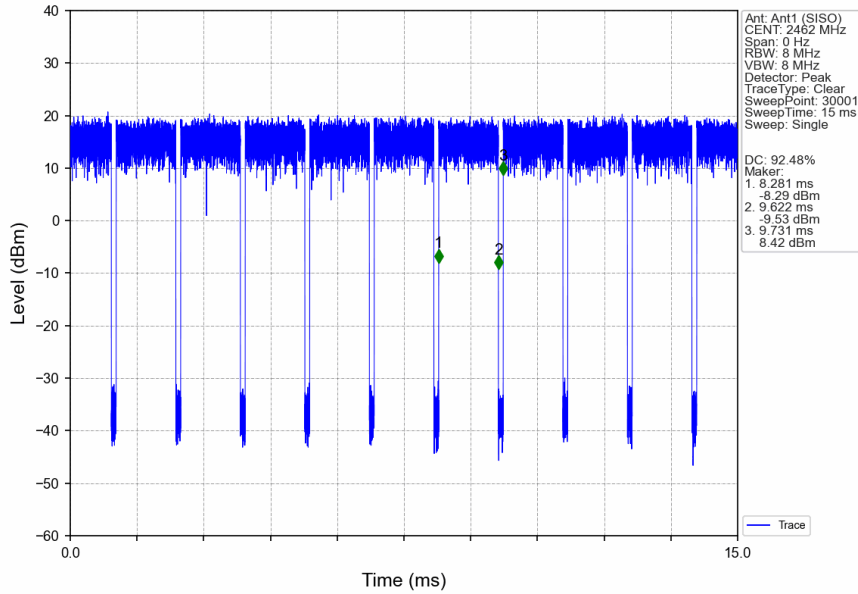
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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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	
802.11b	SISO	2412	1	11.727	/	Pass
		2437	1	11.790	/	Pass
		2462	1	11.818	/	Pass
802.11g	SISO	2412	1	16.802	/	Pass
		2437	1	16.814	/	Pass
		2462	1	16.802	/	Pass
802.11n (HT20)	SISO	2412	1	17.942	/	Pass
		2437	1	17.969	/	Pass
		2462	1	17.948	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.081	≥ 0.5	Pass
		2437	1	9.088	≥ 0.5	Pass
		2462	1	9.097	≥ 0.5	Pass
802.11g	SISO	2412	1	16.541	≥ 0.5	Pass
		2437	1	16.528	≥ 0.5	Pass
		2462	1	16.479	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.788	≥ 0.5	Pass
		2437	1	17.724	≥ 0.5	Pass
		2462	1	17.769	≥ 0.5	Pass



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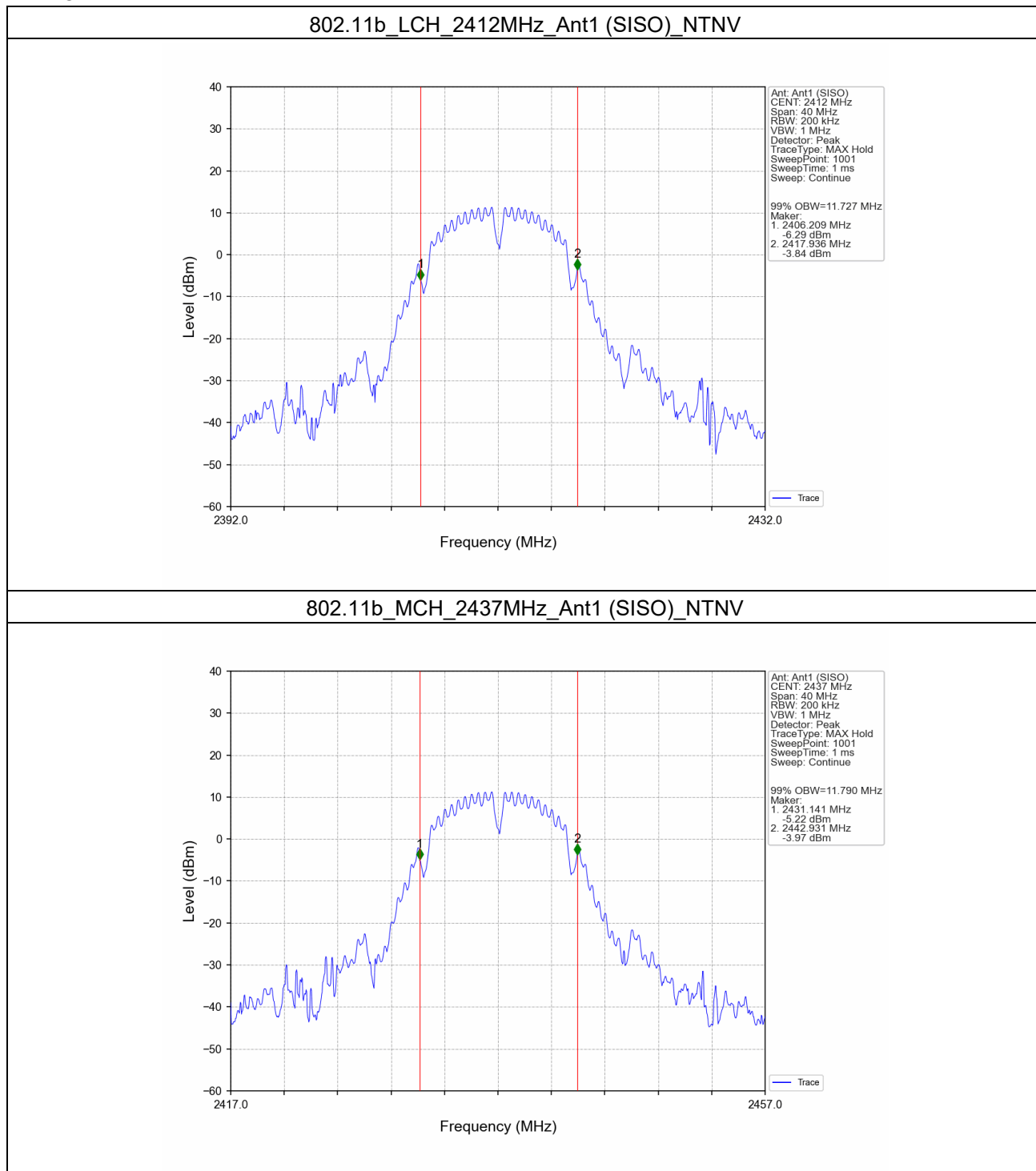
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2.2 Test Graph

2.2.1 OBW



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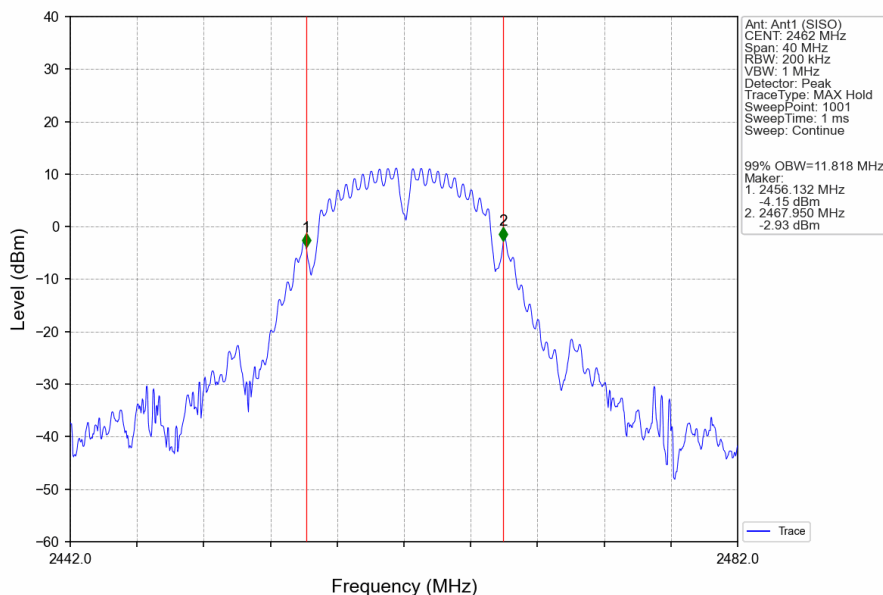
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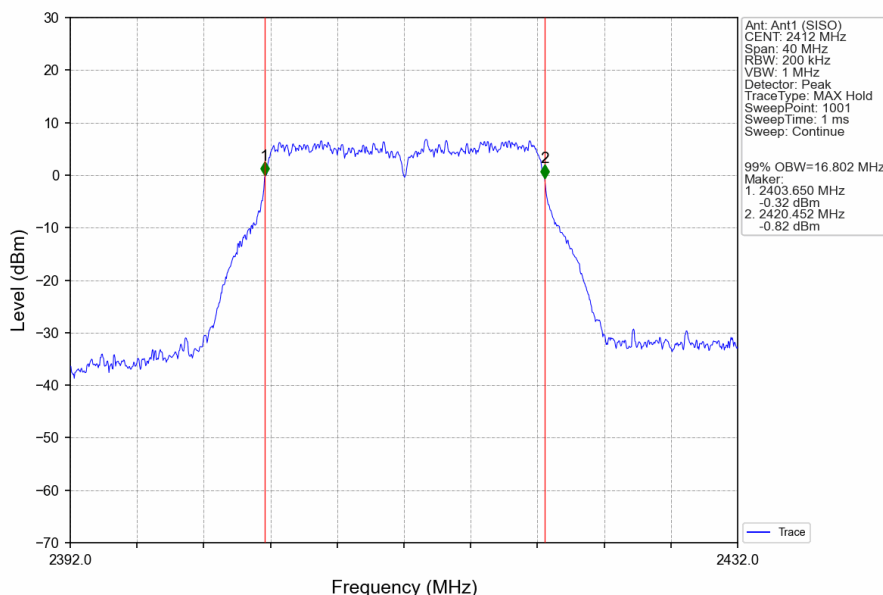
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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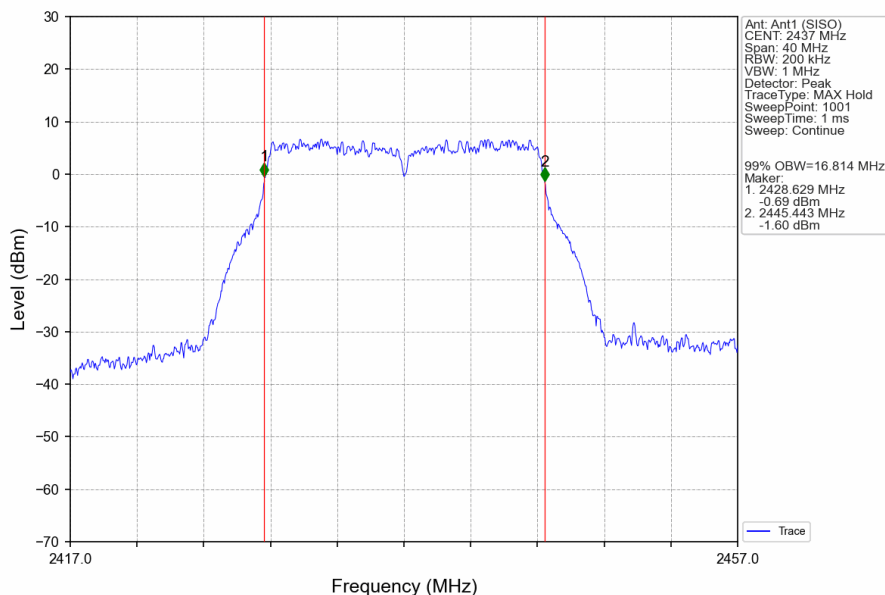
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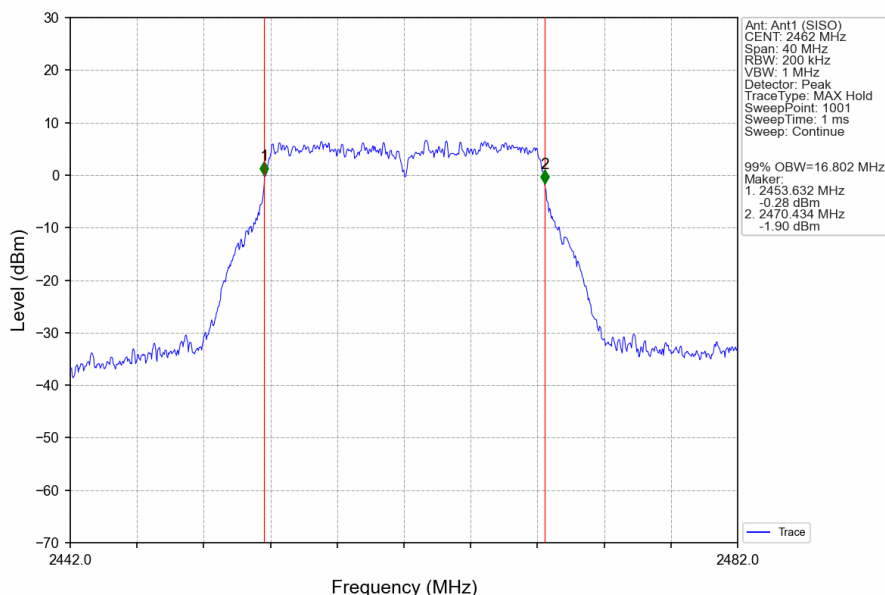
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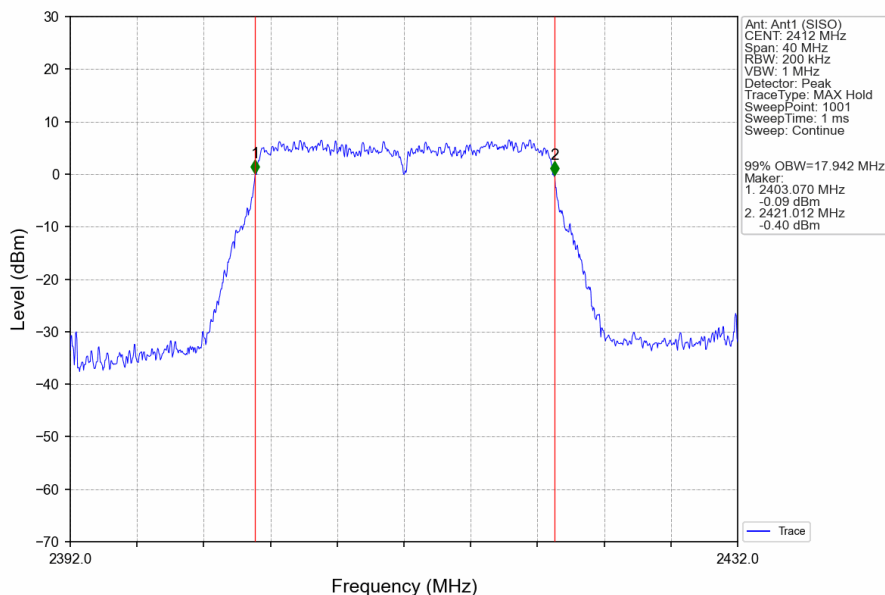
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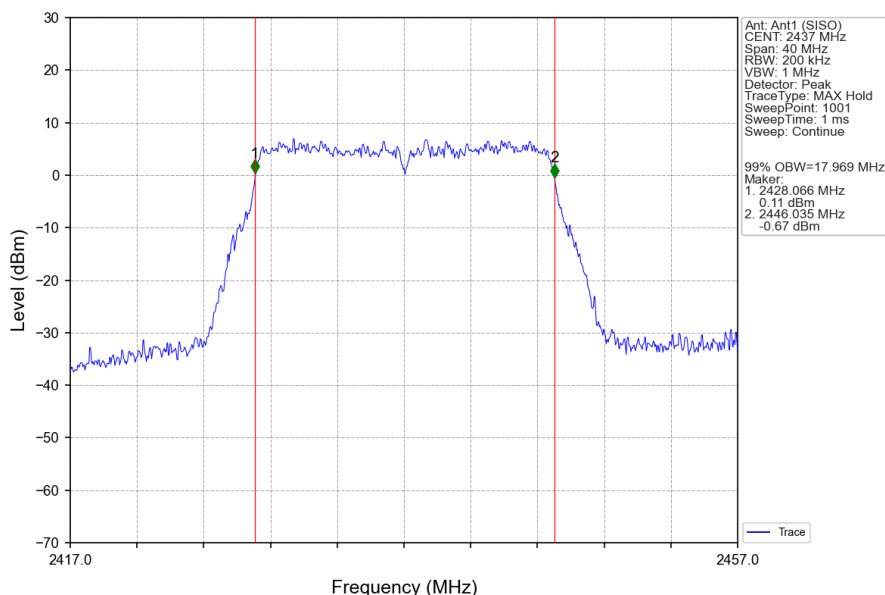
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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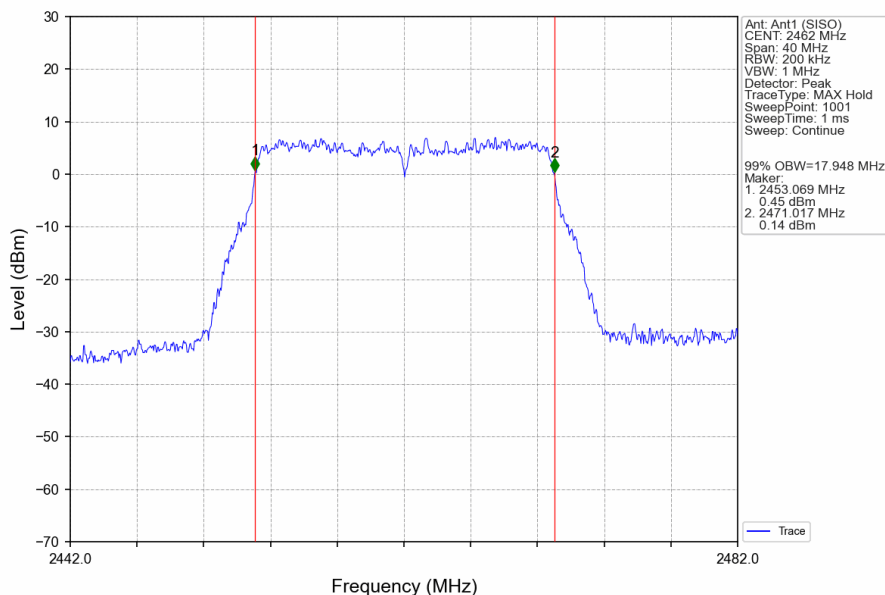
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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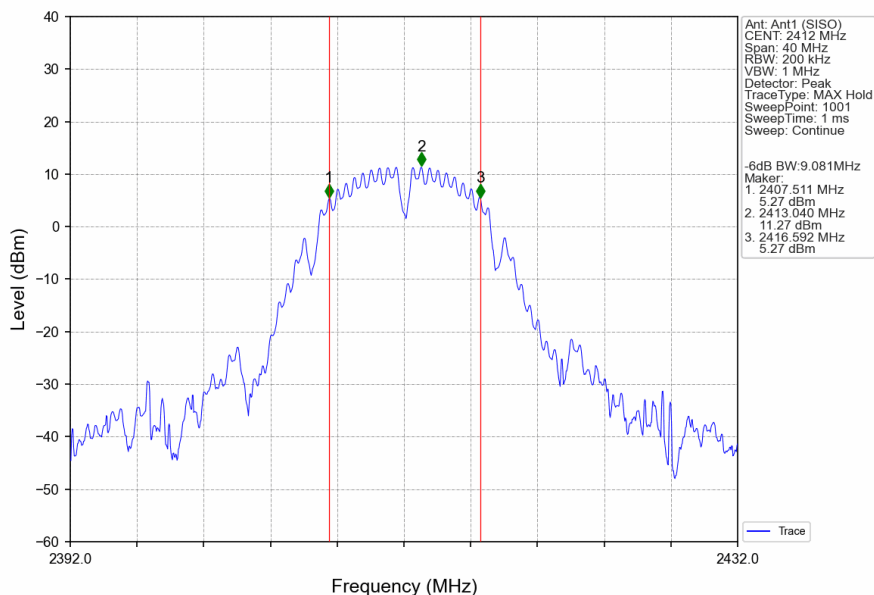
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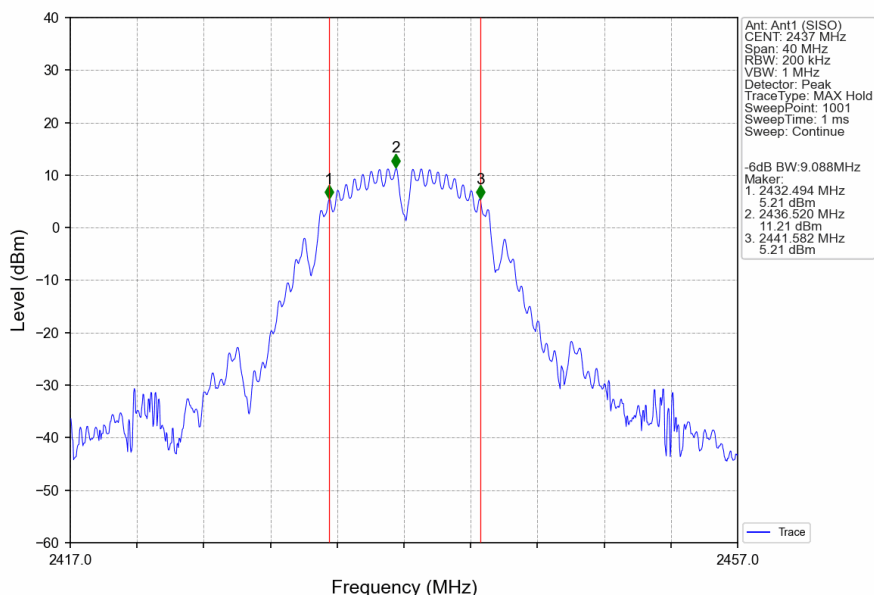
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2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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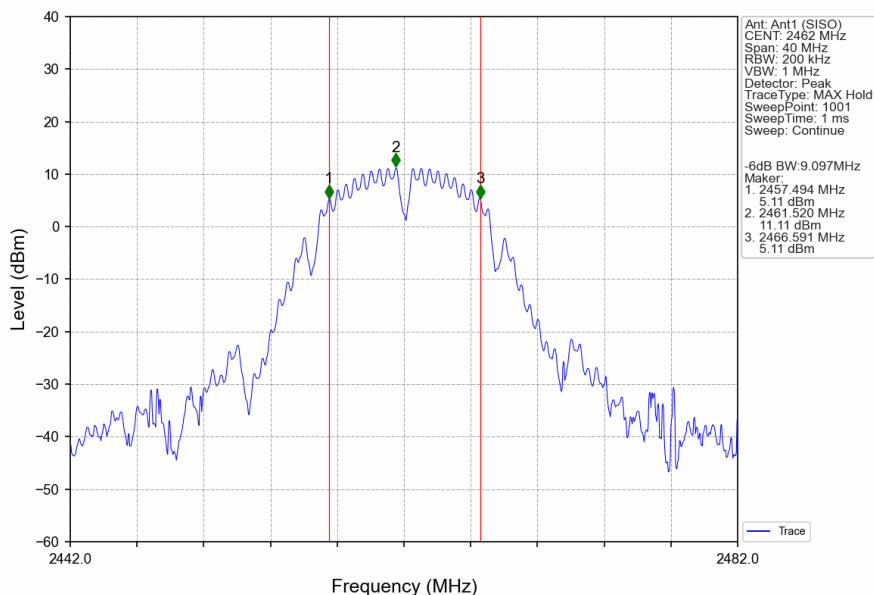
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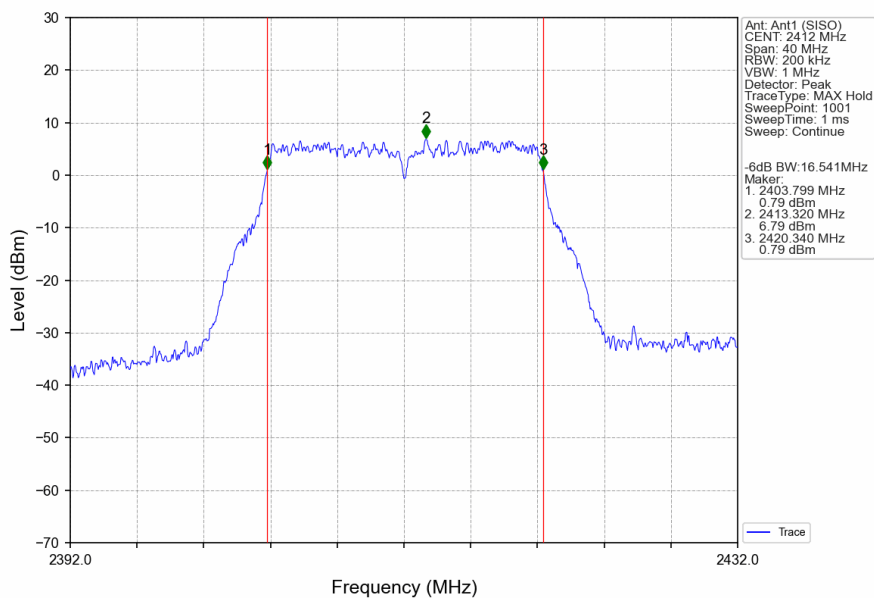
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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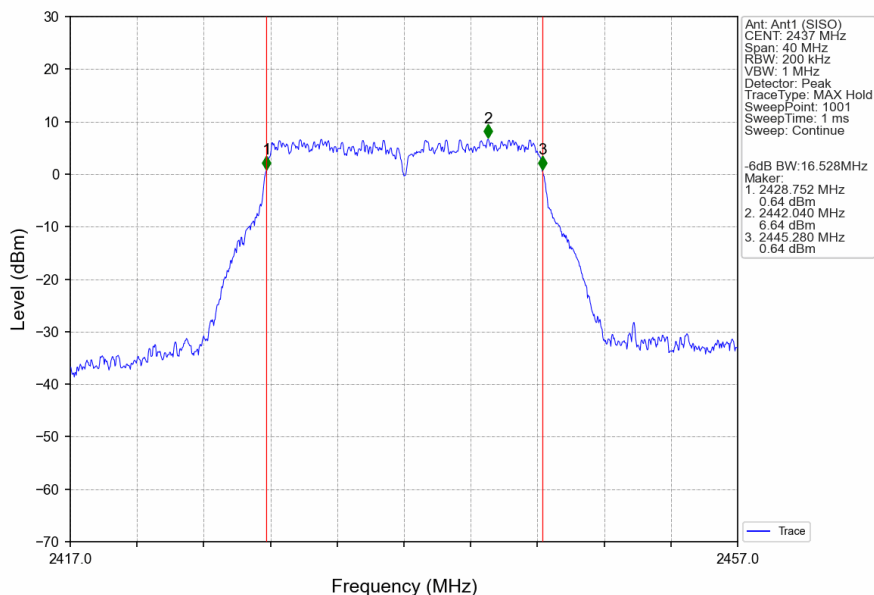
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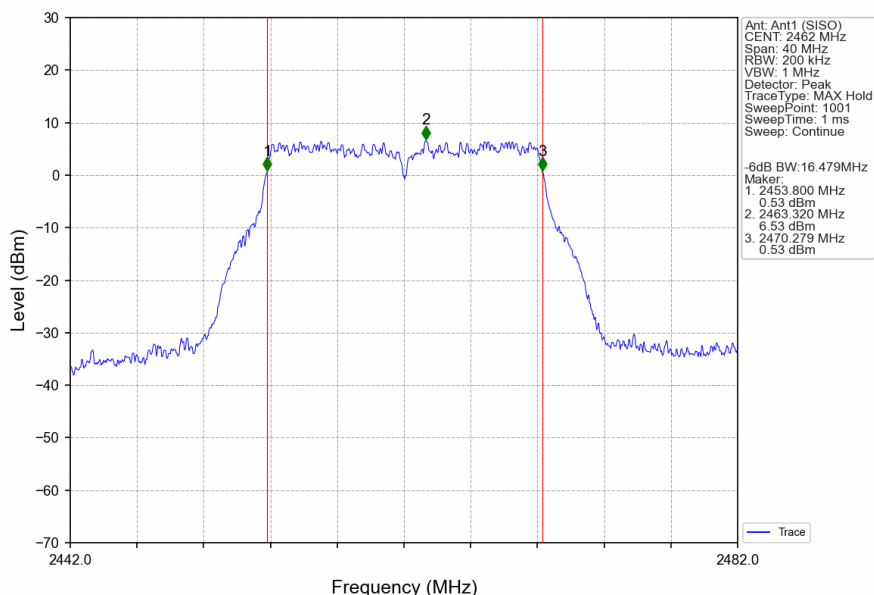
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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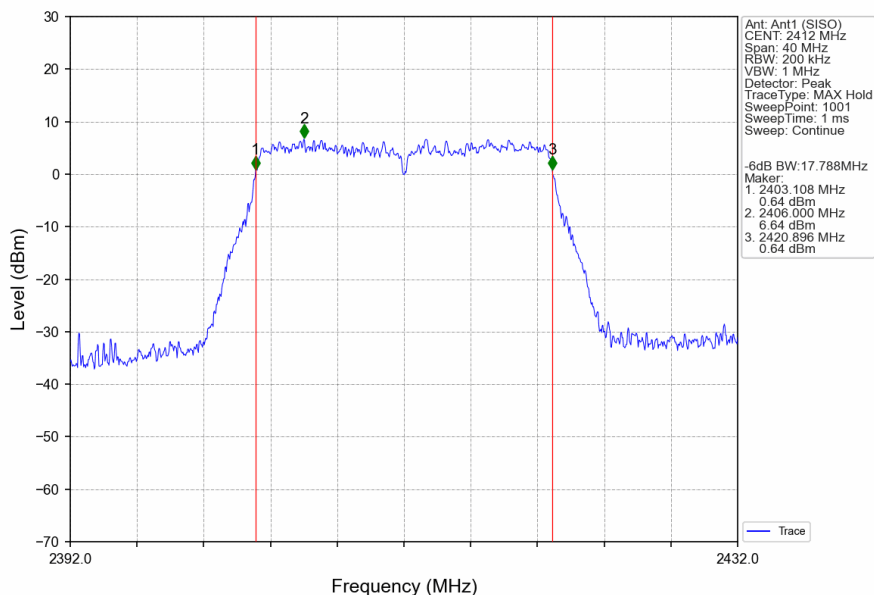
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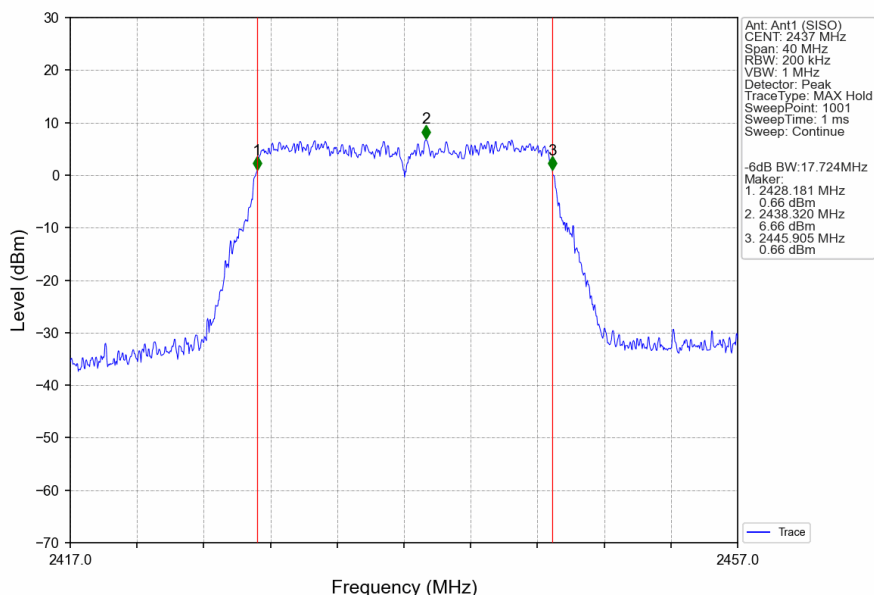
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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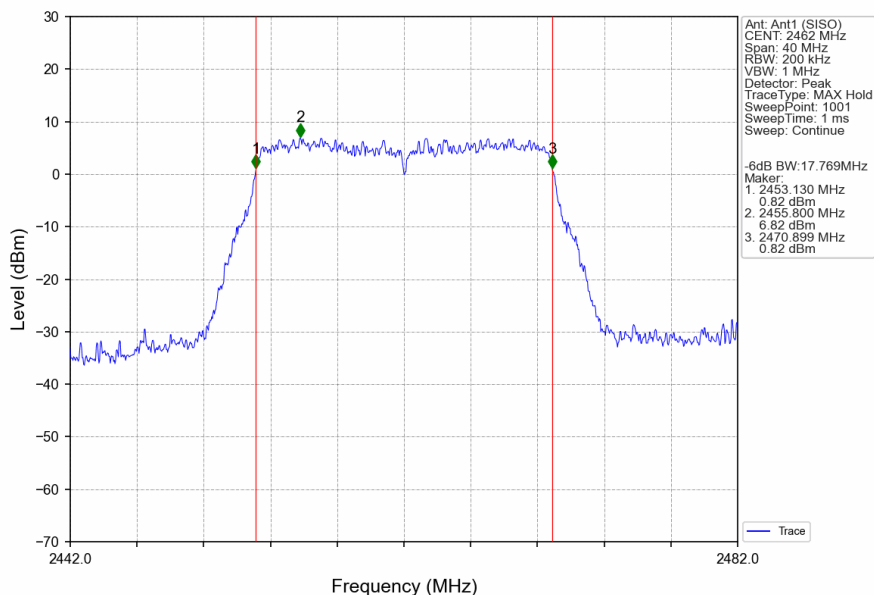
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			Verdict
			ANT1	ANT2	Limit	
802.11b	SISO	2412	19.29	19.15	<=29	Pass
		2437	19.19	19.21	<=29	Pass
		2462	19.10	19.37	<=29	Pass
802.11g	SISO	2412	16.52	16.21	<=29	Pass
		2437	16.59	16.46	<=29	Pass
		2462	16.38	16.49	<=29	Pass
802.11n (HT20)	SISO	2412	16.44	16.49	<=29	Pass
		2437	16.51	16.23	<=29	Pass
		2462	16.69	16.46	<=29	Pass

Note1: Antenna Gain: Ant1: 7.00dBi; 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
			ANT1	ANT2	Limit(dBm/3kHz)	
802.11b	SISO	2412	2.31dBm/100kHz	2.12dBm/100kHz	<=8	Pass
		2437	2.38dBm/100kHz	2.01dBm/100kHz	<=8	Pass
		2462	2.15dBm/100kHz	2.40dBm/100kHz	<=8	Pass
802.11g	SISO	2412	-3.02dBm/100kHz	-3.25dBm/100kHz	<=8	Pass
		2437	-2.85dBm/100kHz	-3.08dBm/100kHz	<=8	Pass
		2462	-3.10dBm/100kHz	-2.94dBm/100kHz	<=8	Pass
802.11n (HT20)	SISO	2412	-3.56dBm/100kHz	-3.44dBm/100kHz	<=8	Pass
		2437	-3.30dBm/100kHz	-3.11dBm/100kHz	<=8	Pass
		2462	-3.05dBm/100kHz	-3.47dBm/100kHz	<=8	Pass

Note1: Antenna Gain: Ant1: 7.00dBi; Ant2: 7.00dBi;



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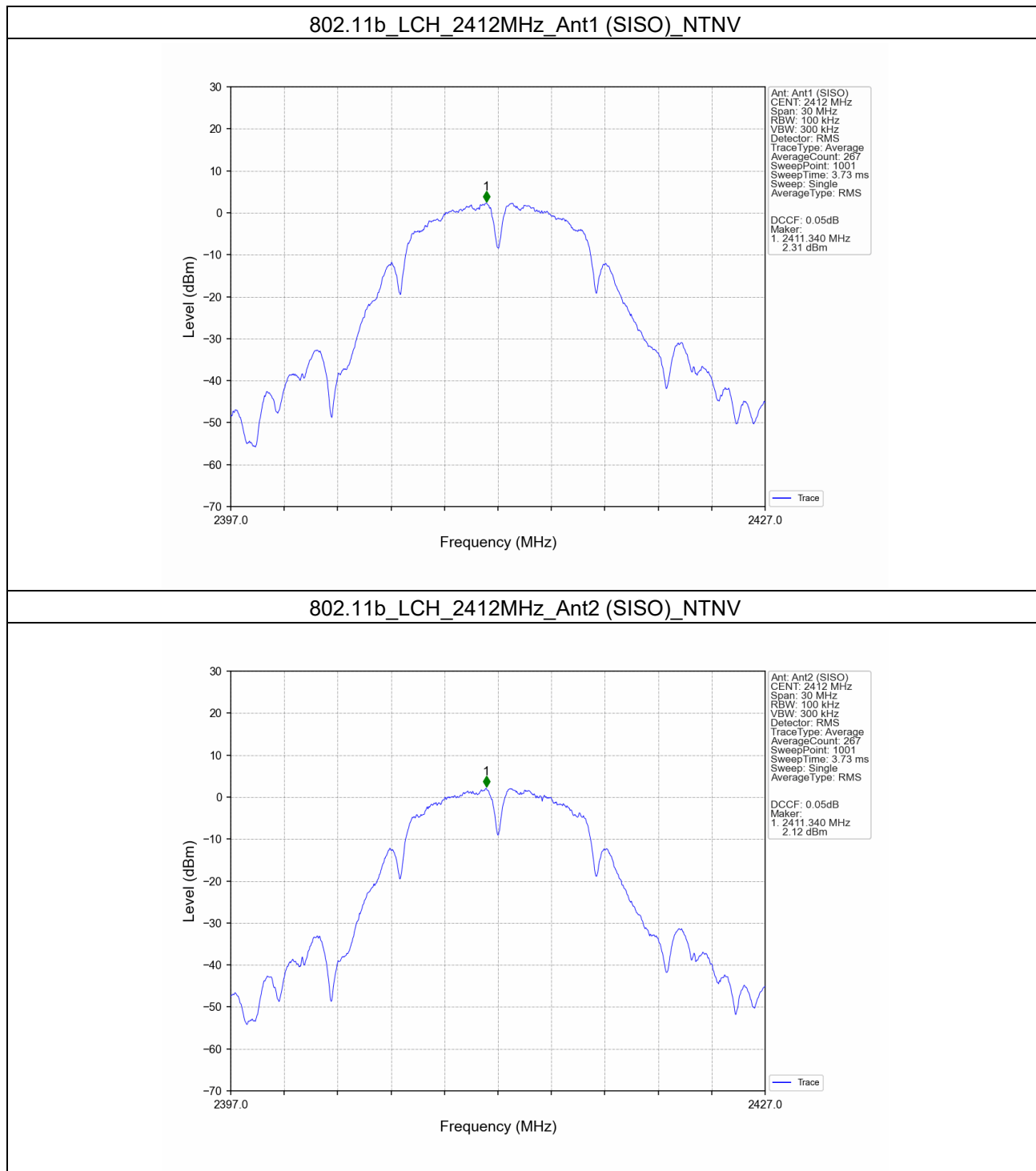
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4.2 Test Graph

4.2.1 PSD



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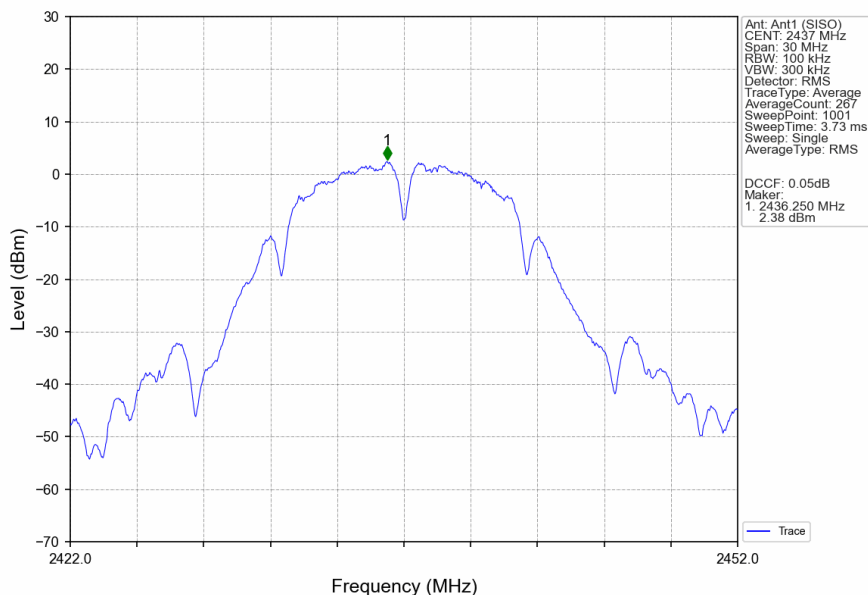
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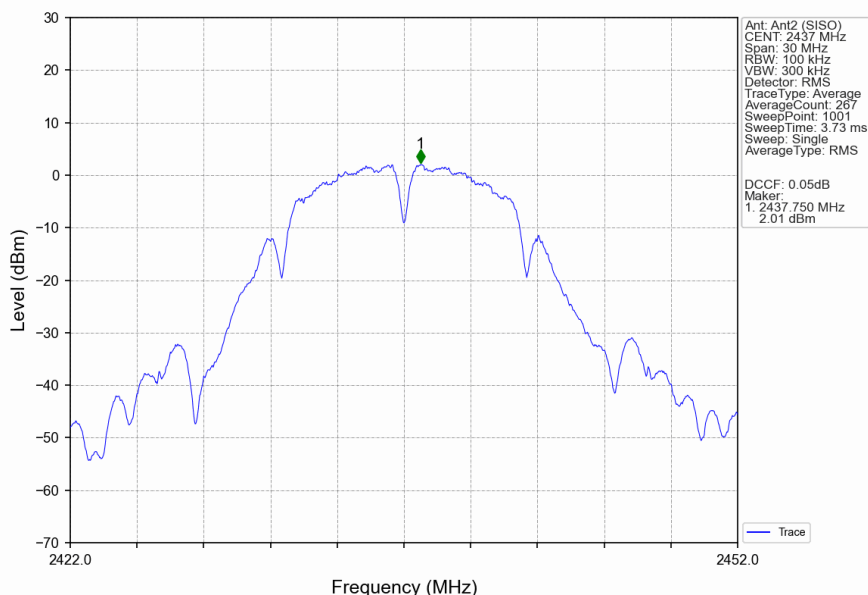
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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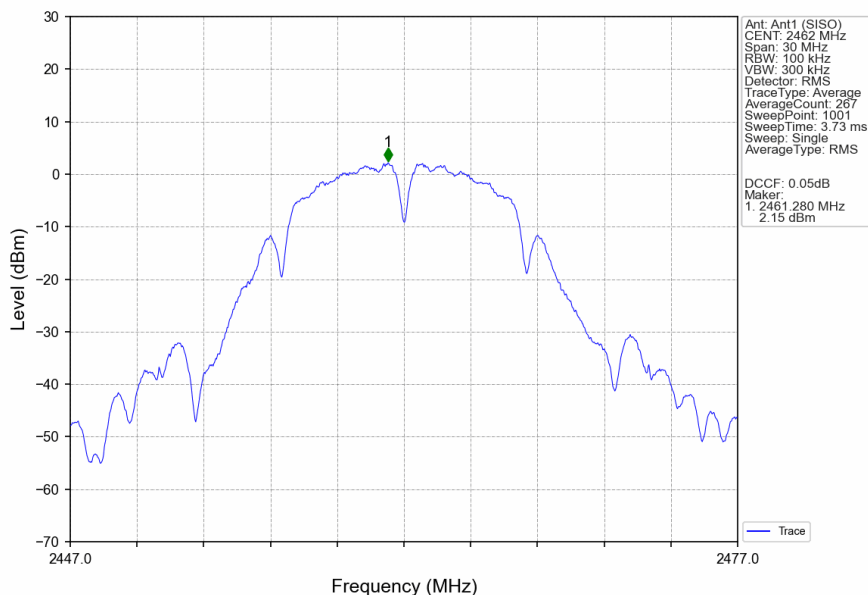
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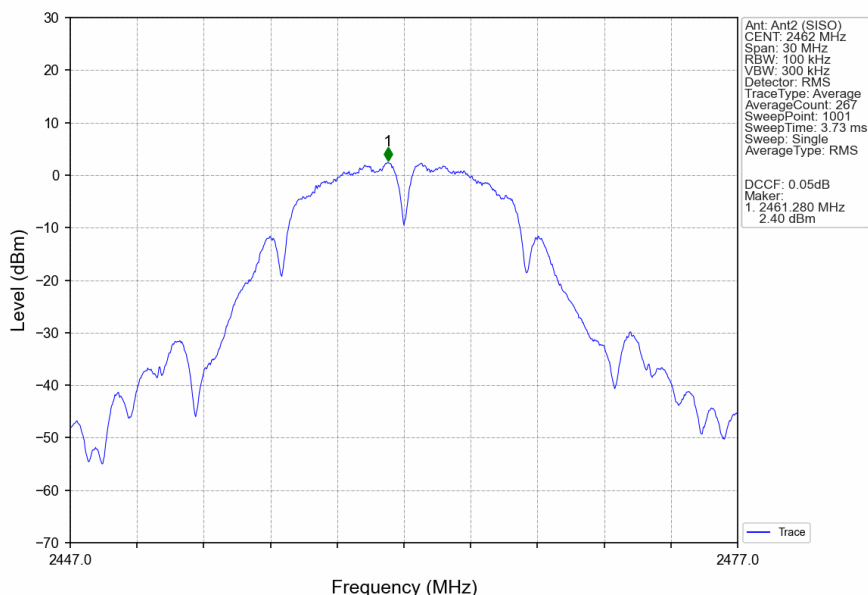
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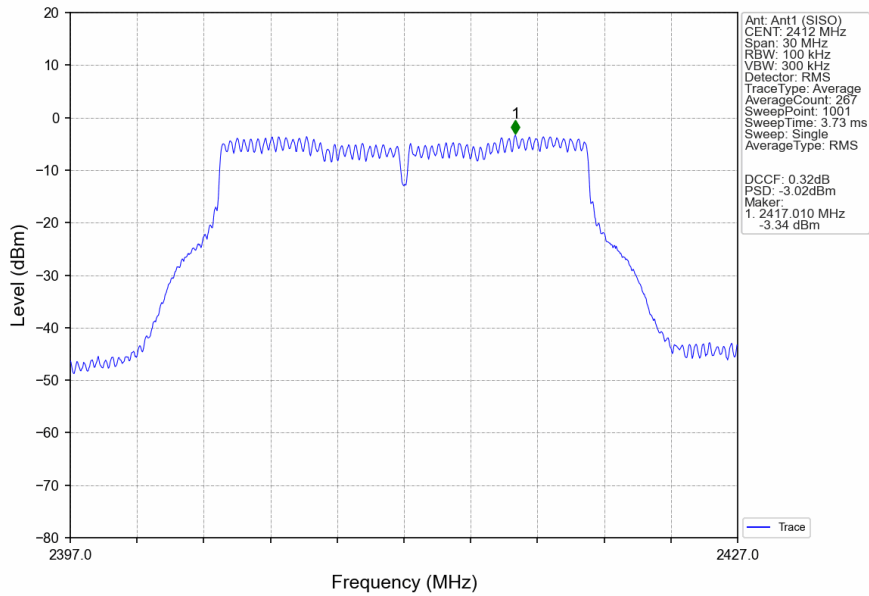
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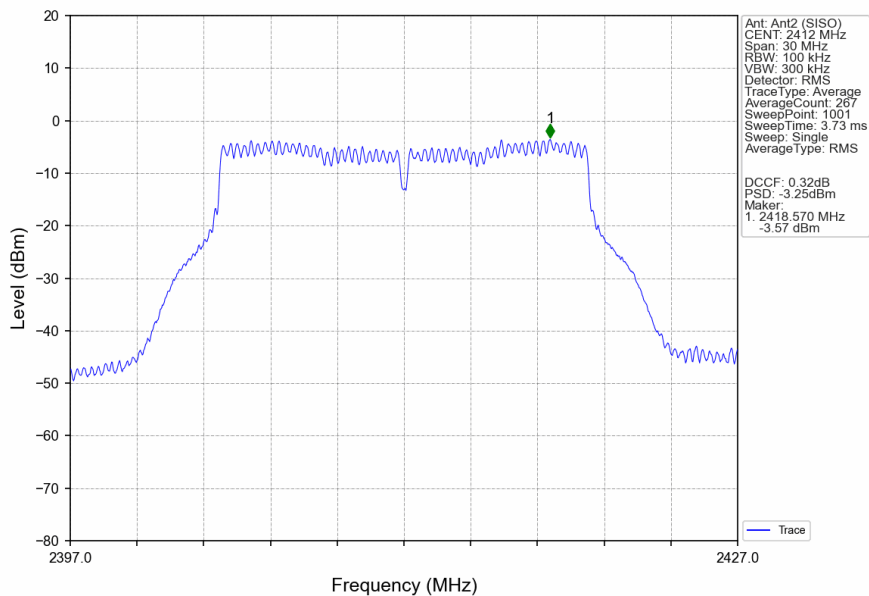
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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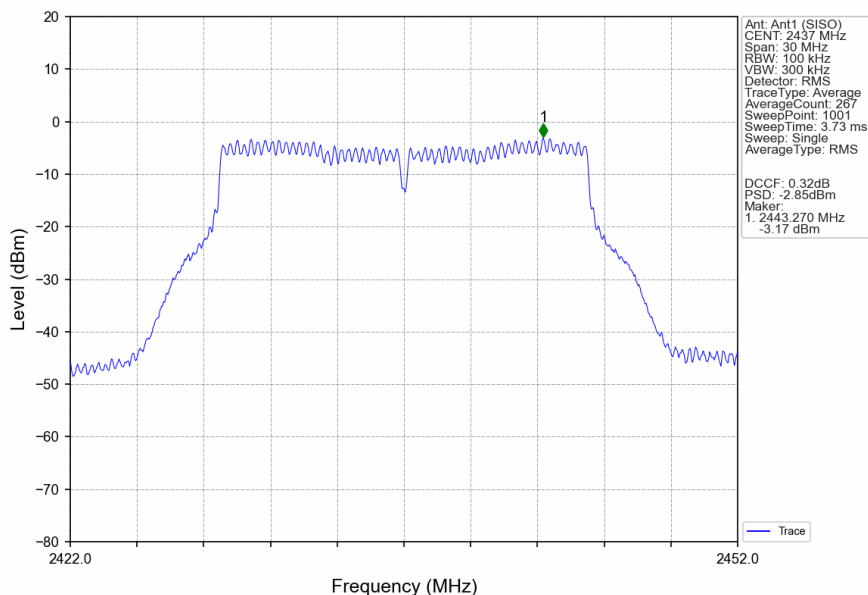
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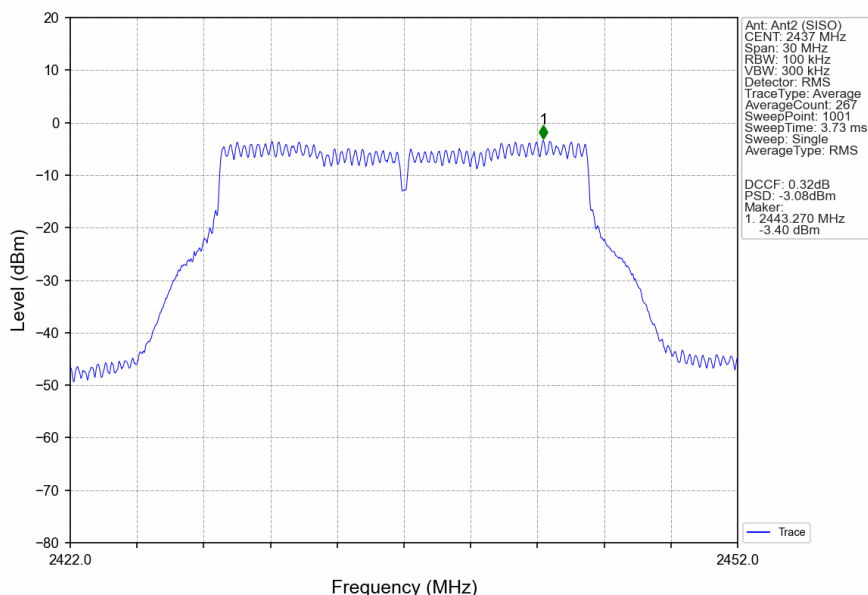
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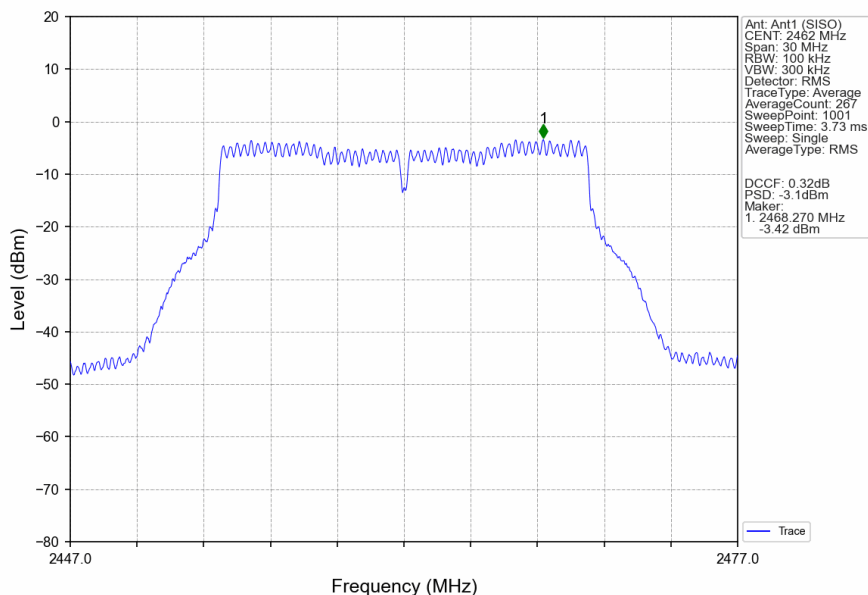
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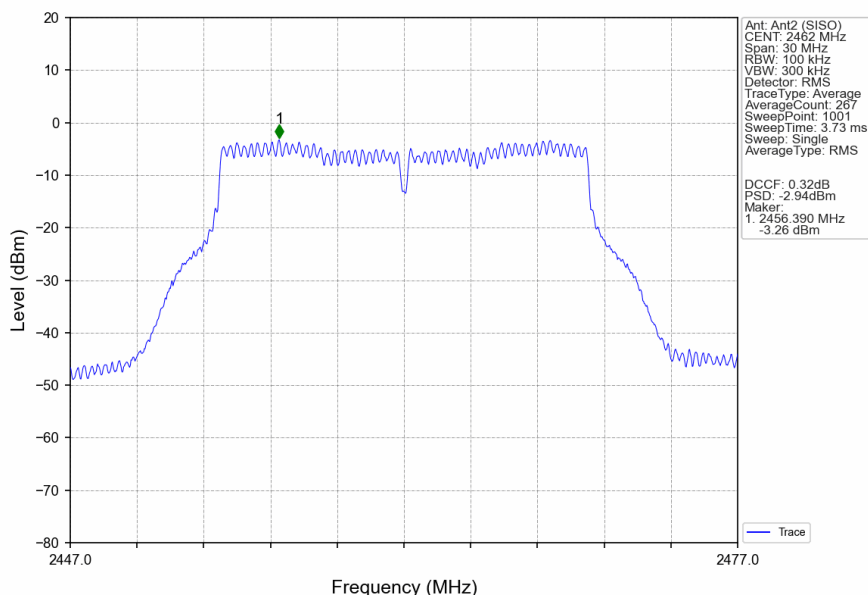
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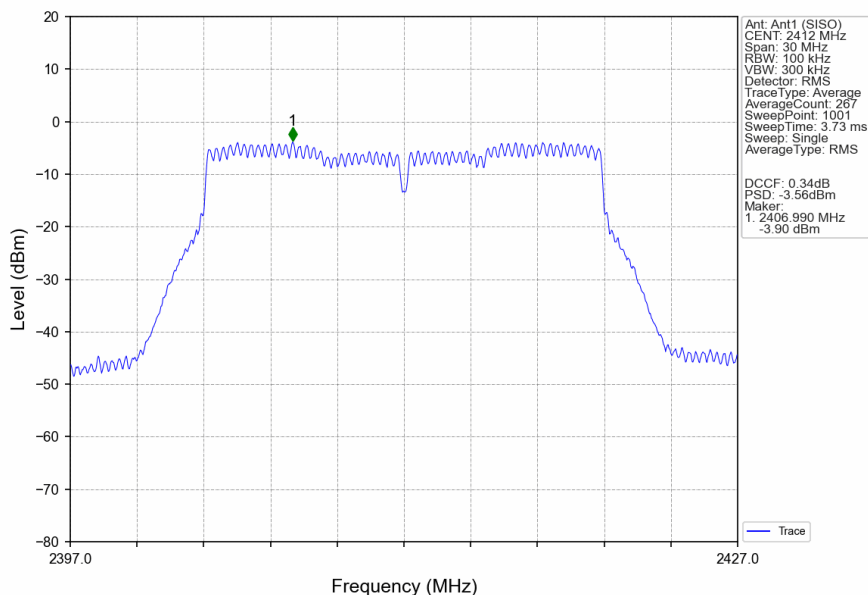
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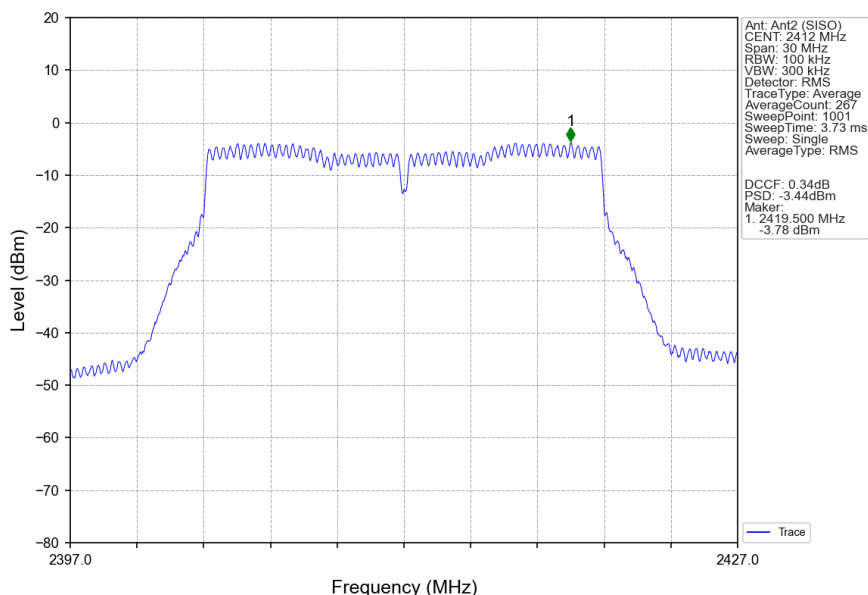
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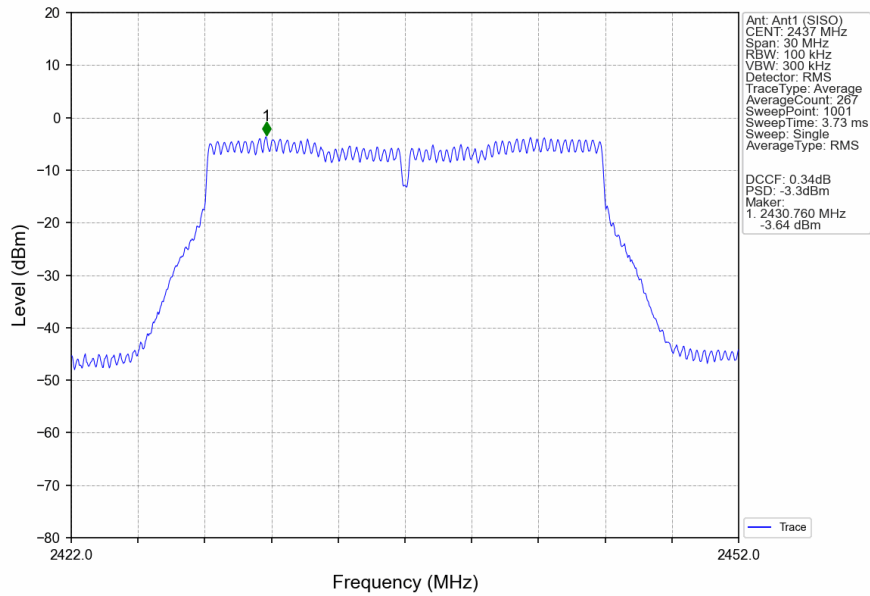
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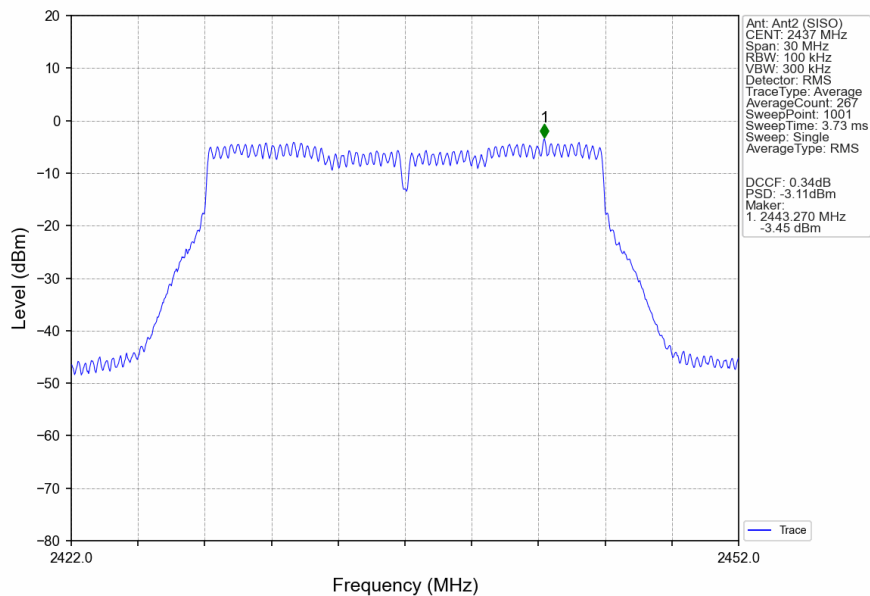
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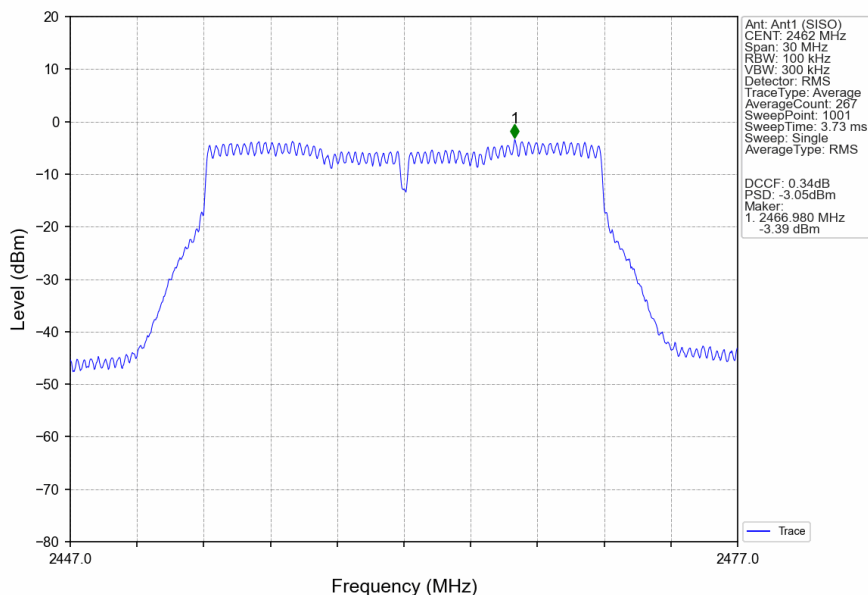
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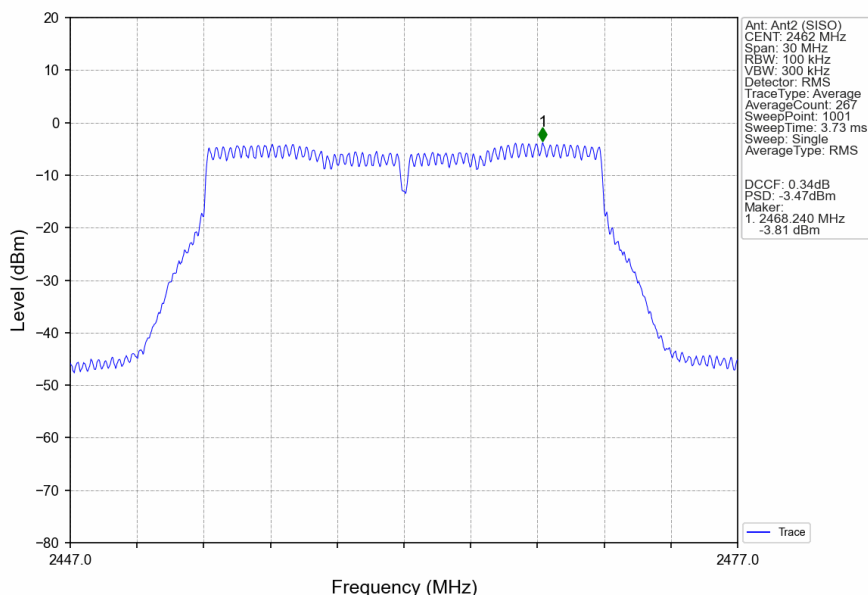
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	11.18
			2	10.73
		2437	1	11.04
			2	11.08
		2462	1	10.91
			2	11.15
802.11g	SISO	2412	1	5.71
			2	5.48
		2437	1	5.80
			2	5.83
		2462	1	5.61
			2	5.66
802.11n (HT20)	SISO	2412	1	5.53
			2	5.59
		2437	1	5.46
			2	5.40
		2462	1	5.86
			2	5.50



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5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	11.18	-18.82	Pass
			2	11.15	-18.85	Pass
		2437	1	11.18	-18.82	Pass
			2	11.15	-18.85	Pass
		2462	1	11.18	-18.82	Pass
			2	11.15	-18.85	Pass
802.11g	SISO	2412	1	5.80	-24.20	Pass
			2	5.83	-24.17	Pass
		2437	1	5.80	-24.20	Pass
			2	5.83	-24.17	Pass
		2462	1	5.80	-24.20	Pass
			2	5.83	-24.17	Pass
802.11n (HT20)	SISO	2412	1	5.86	-24.14	Pass
			2	5.59	-24.41	Pass
		2437	1	5.86	-24.14	Pass
			2	5.59	-24.41	Pass
		2462	1	5.86	-24.14	Pass
			2	5.59	-24.41	Pass



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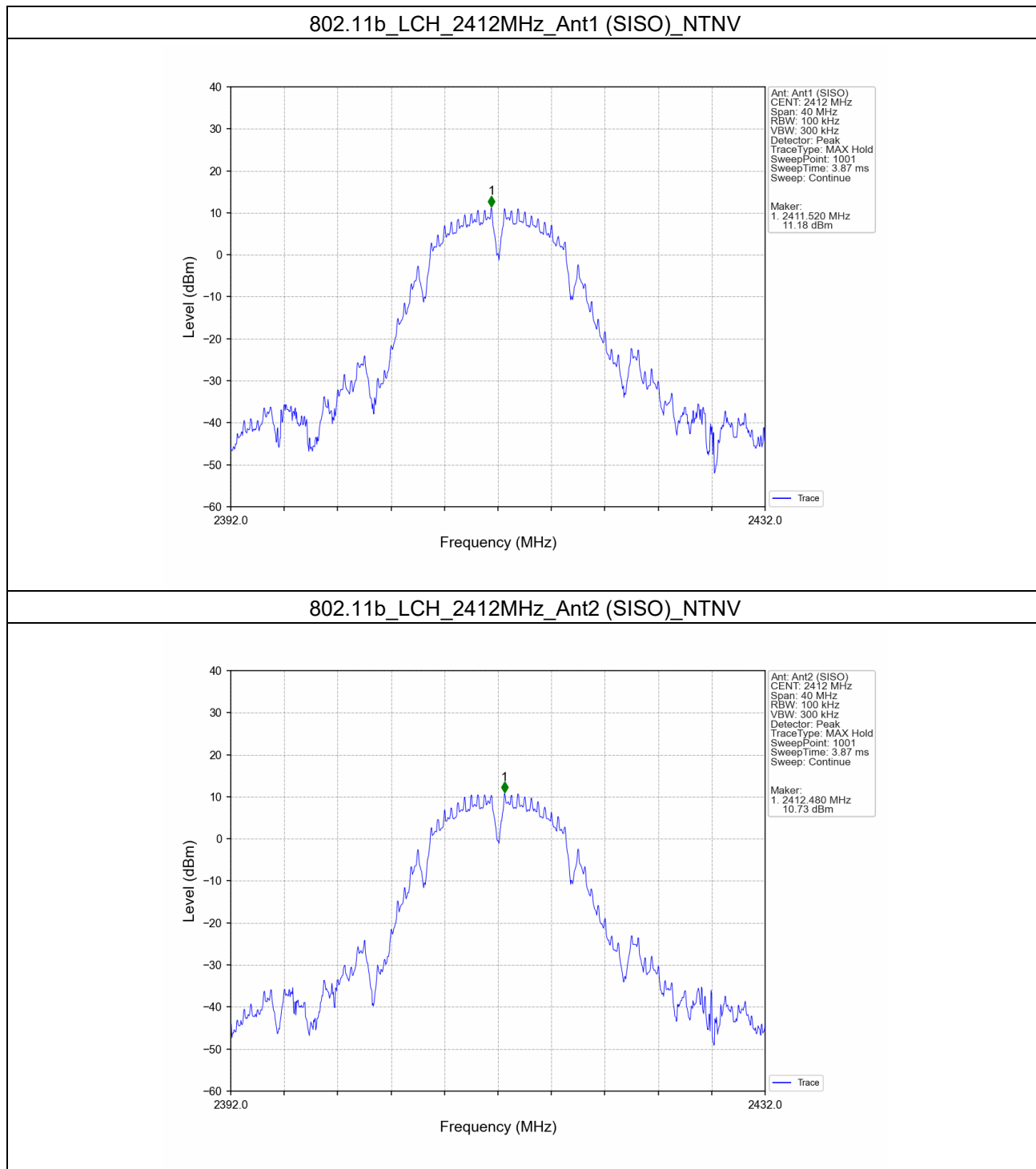
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5.2 Test Graph

5.2.1 Ref



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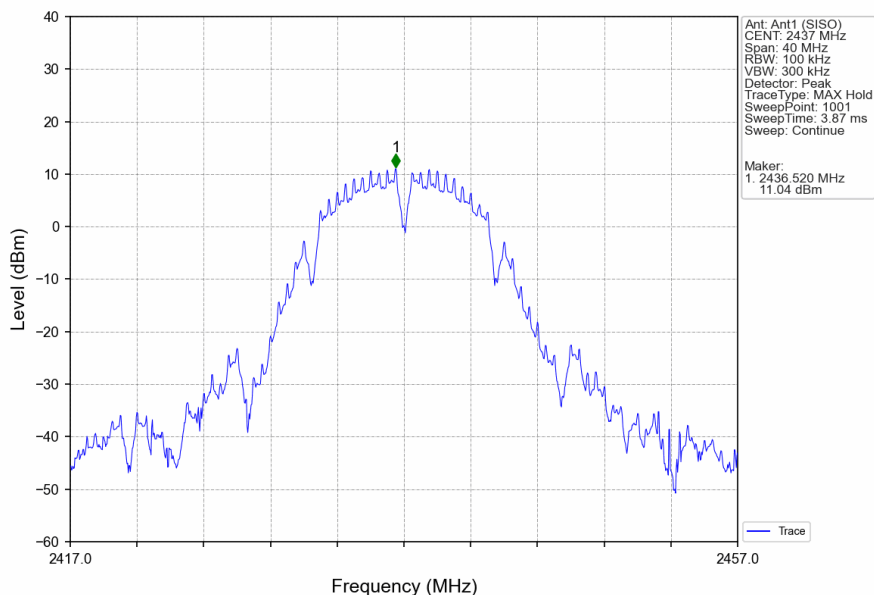
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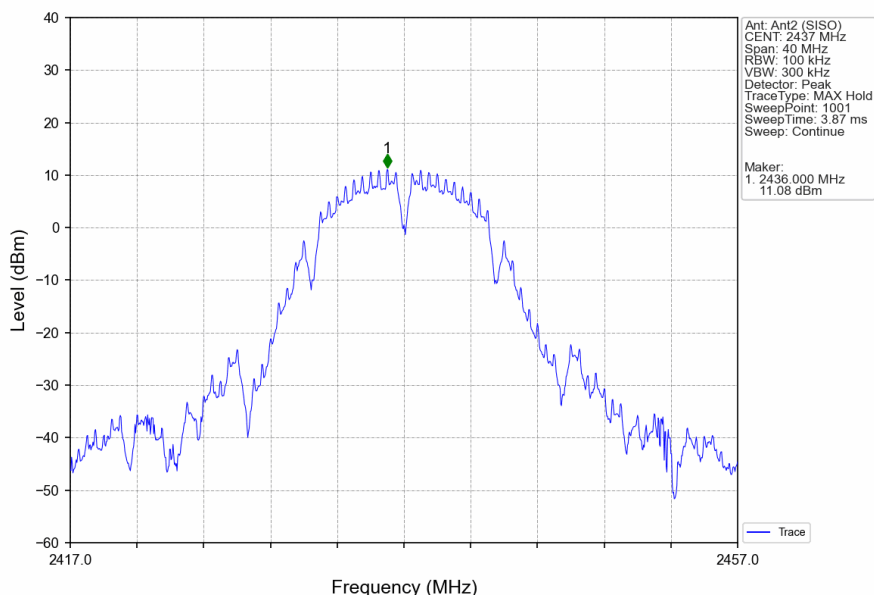
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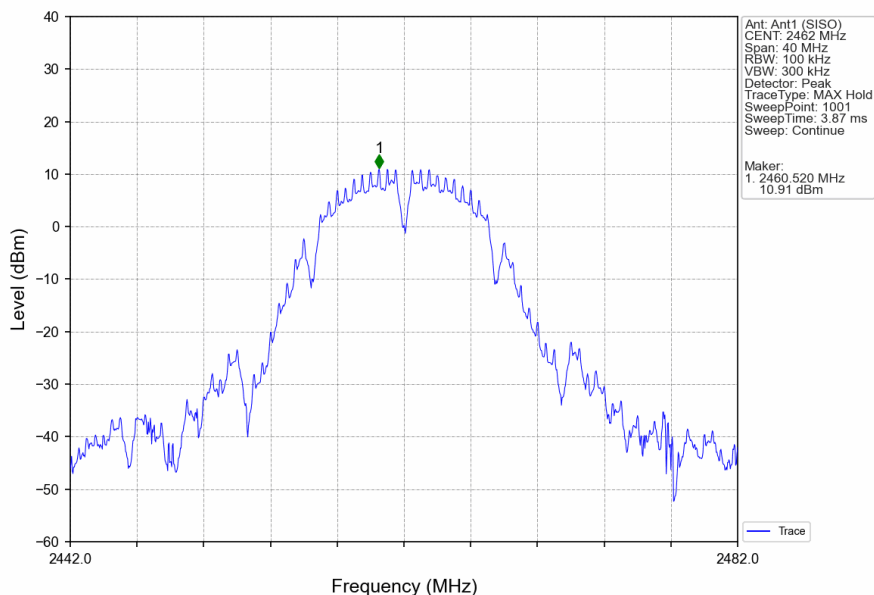
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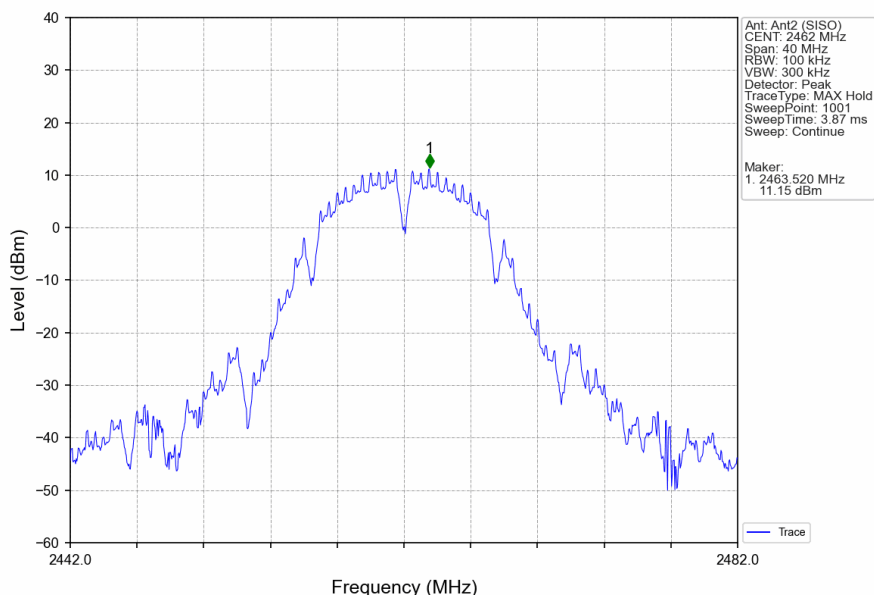
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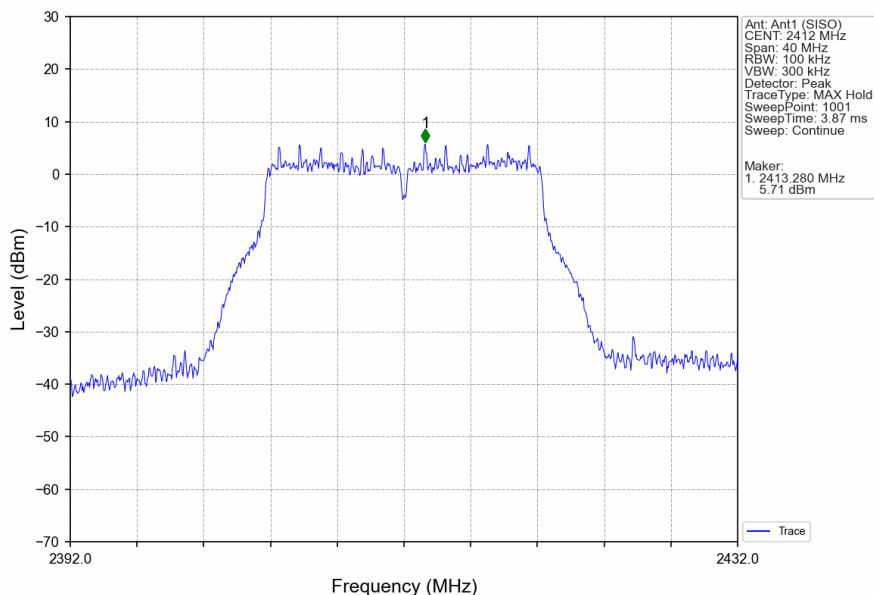
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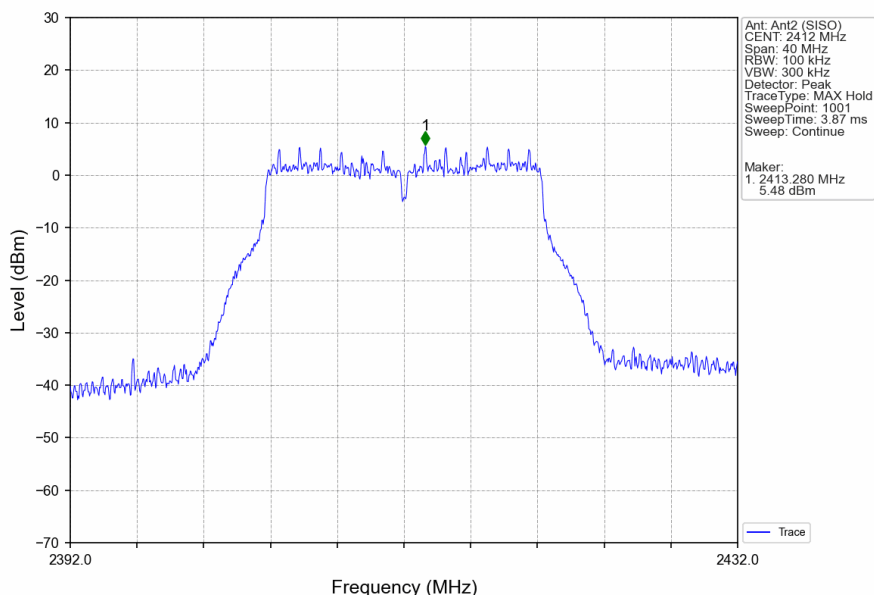
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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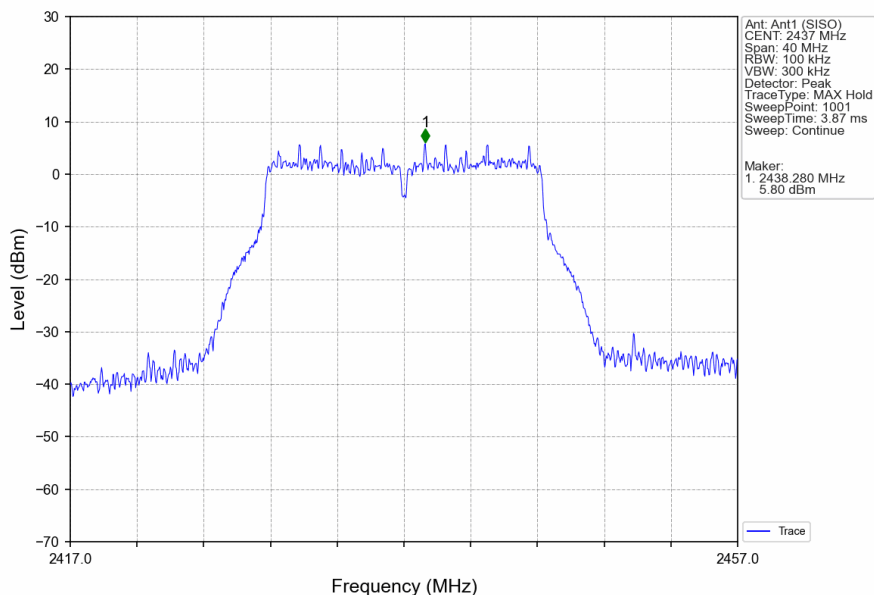
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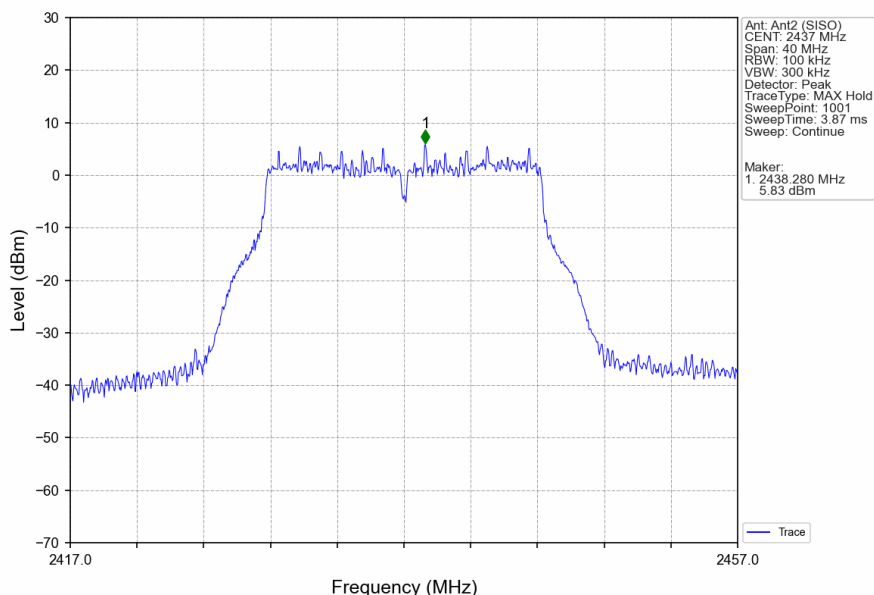
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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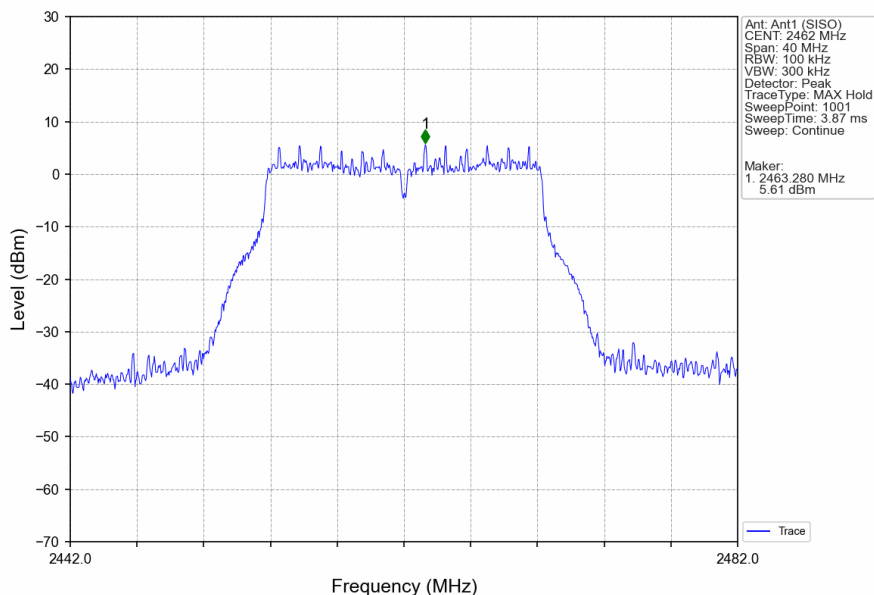
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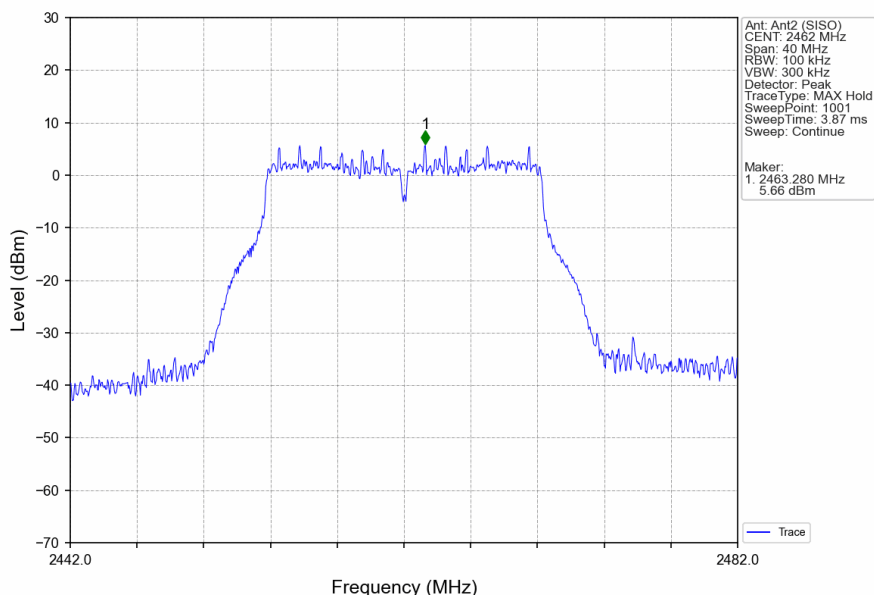
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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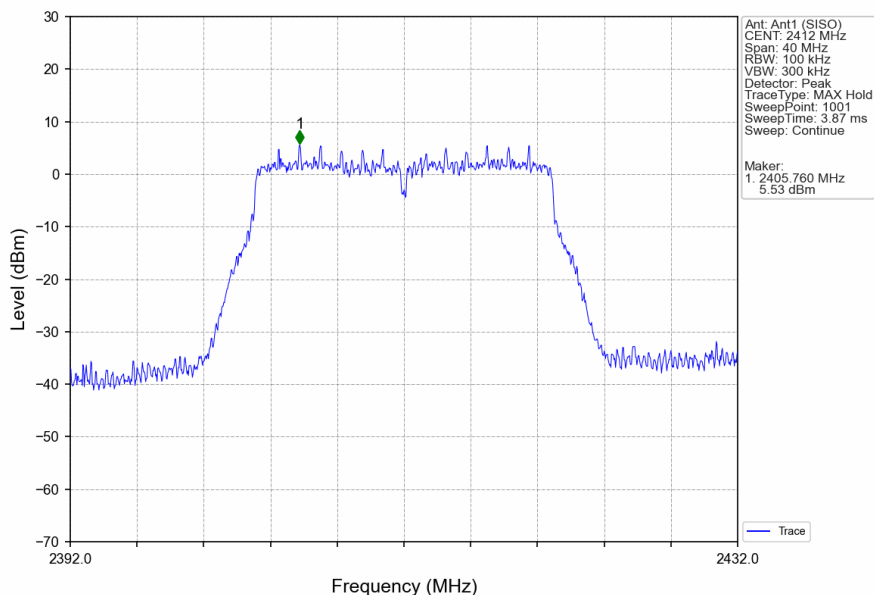
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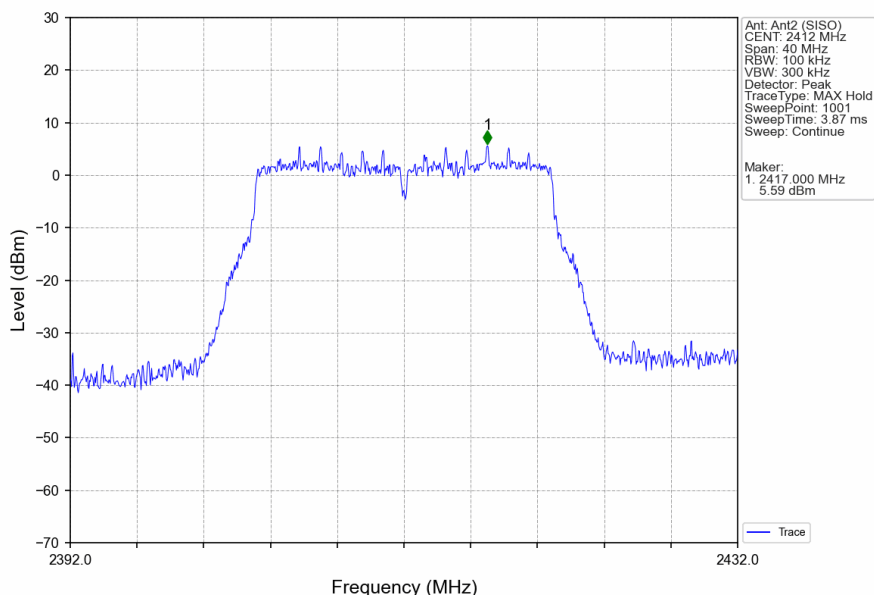
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802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



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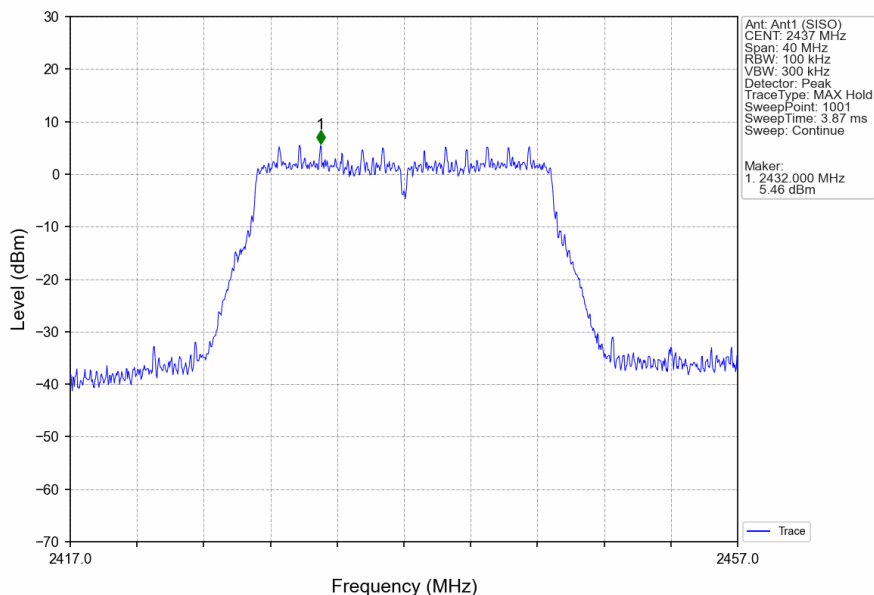
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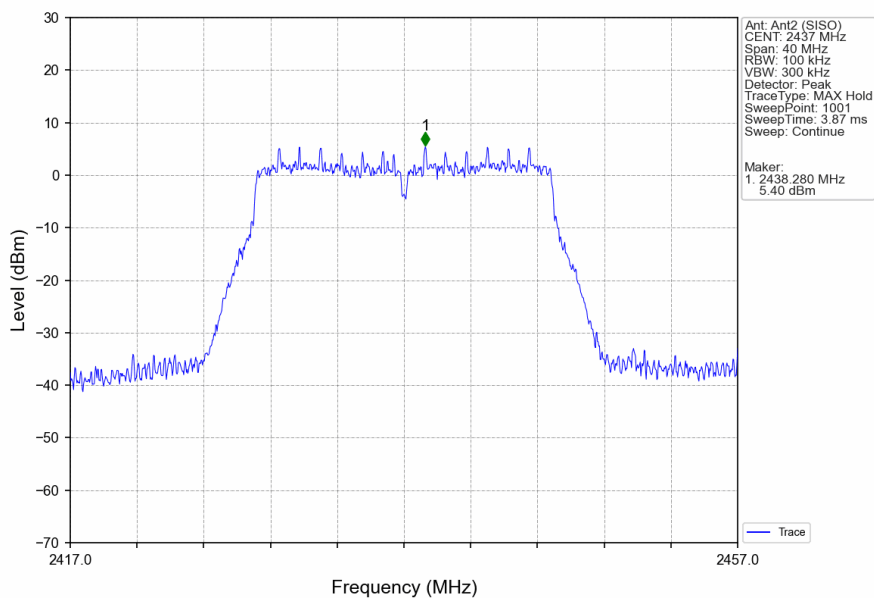
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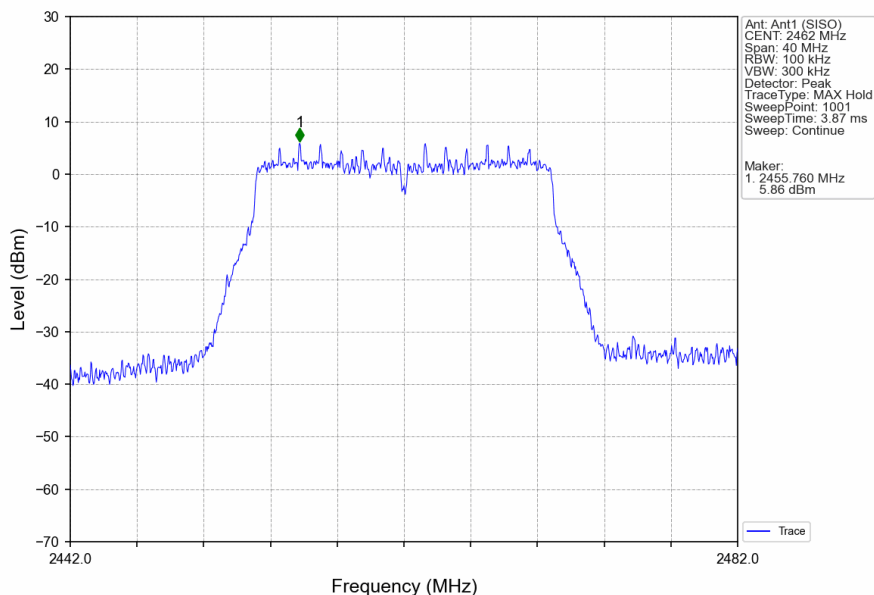
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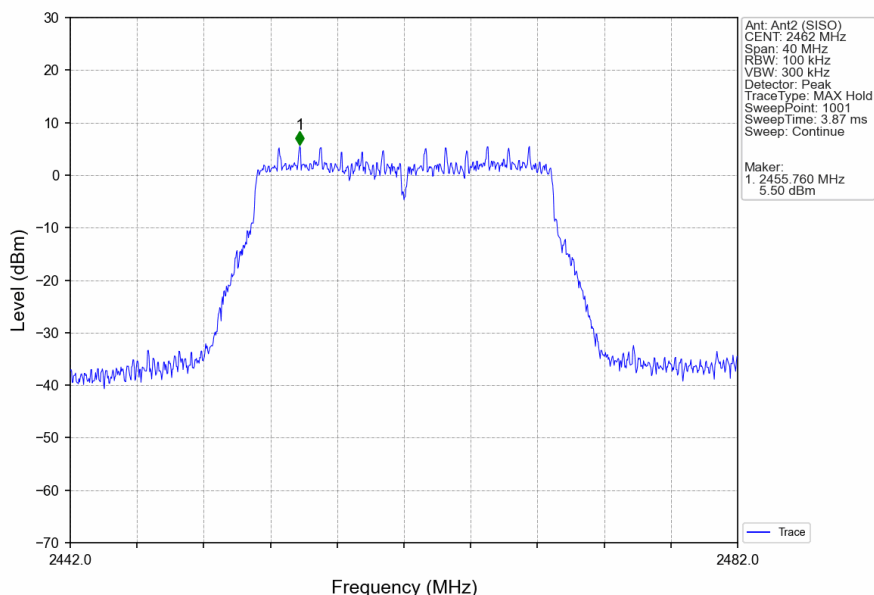
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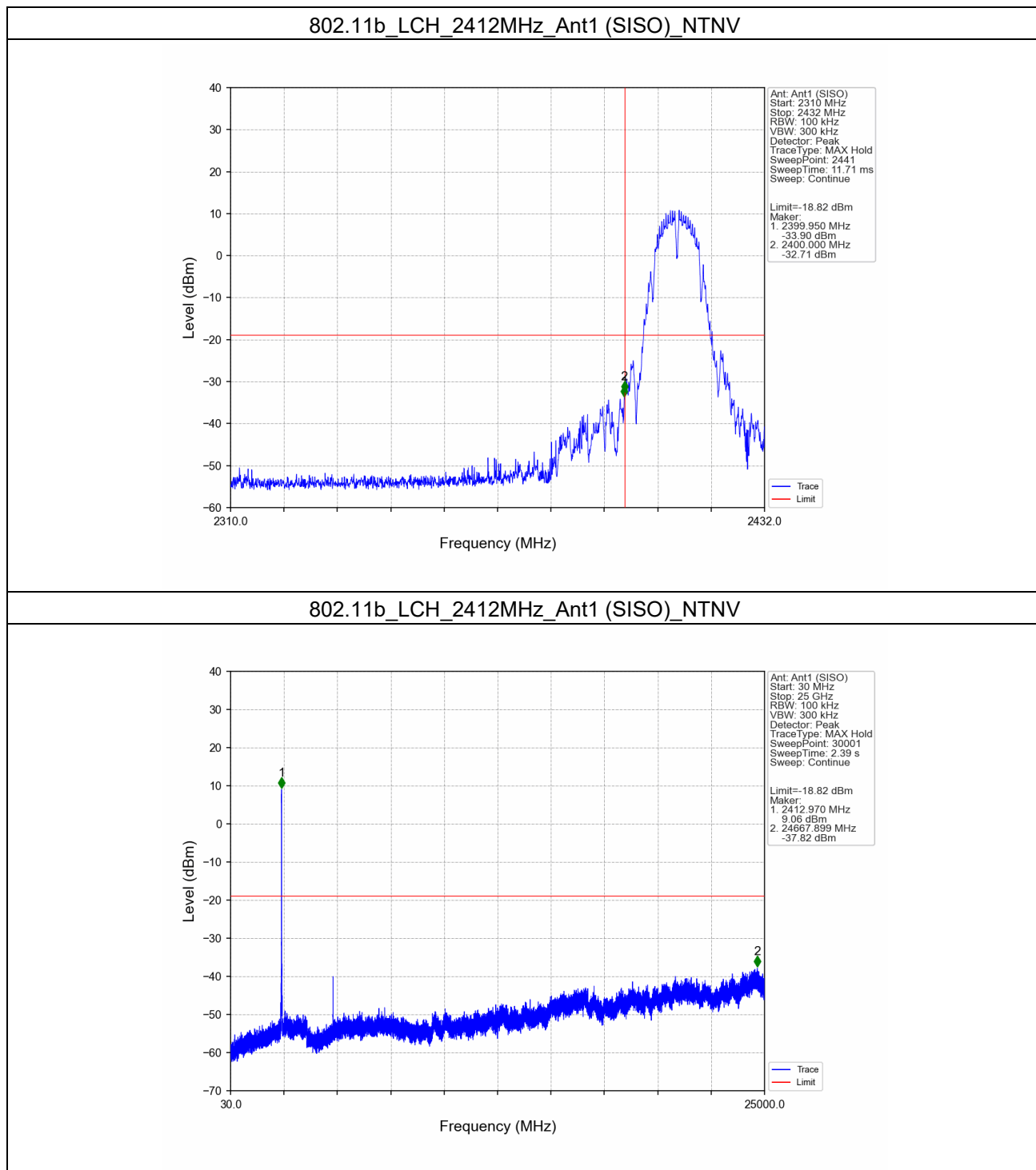


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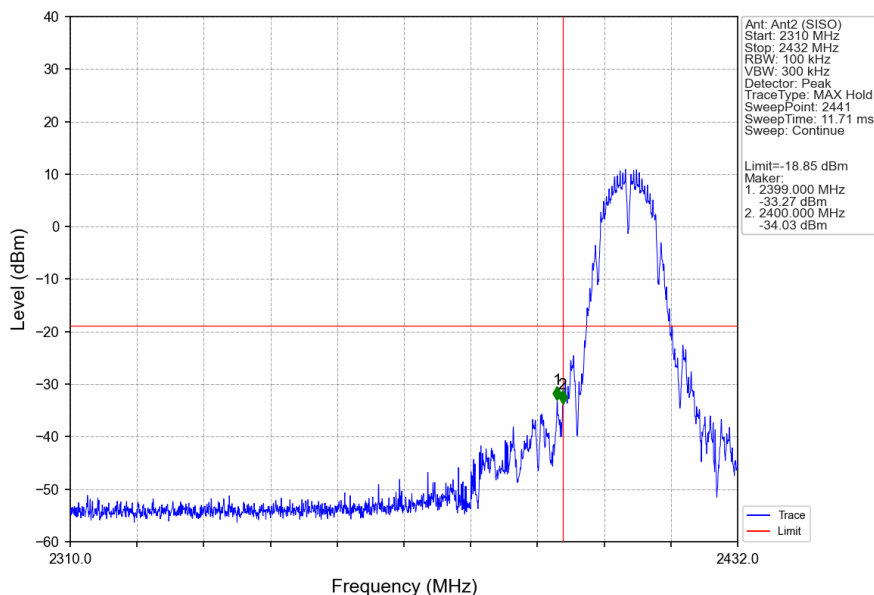


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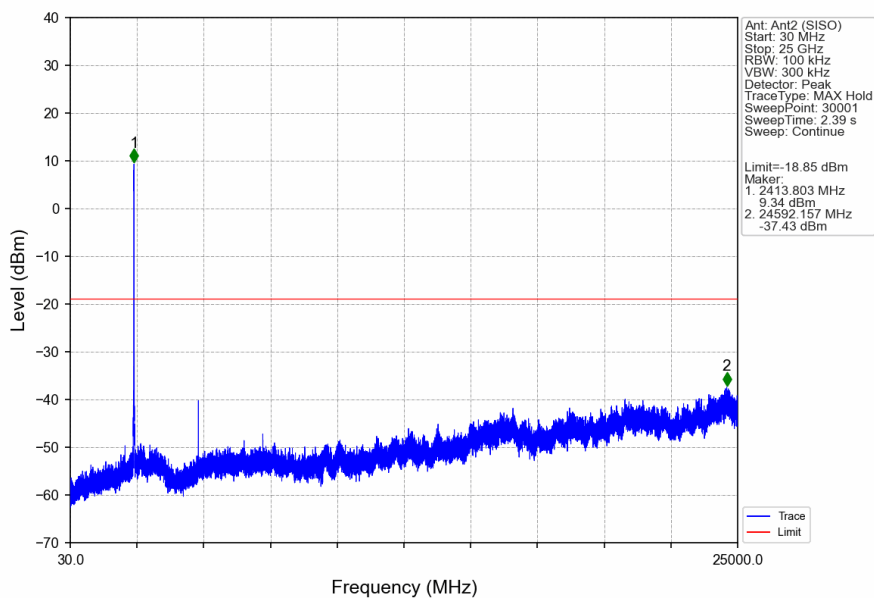
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802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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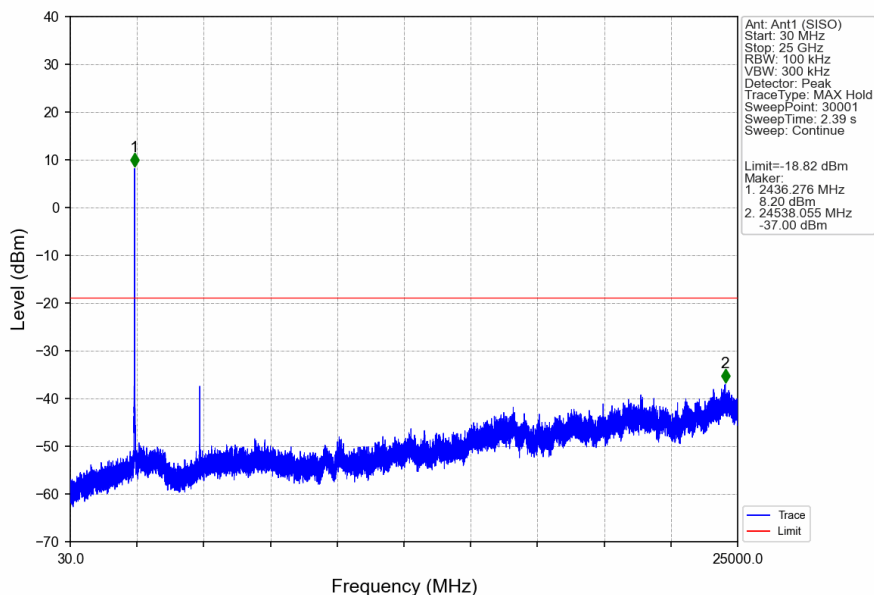
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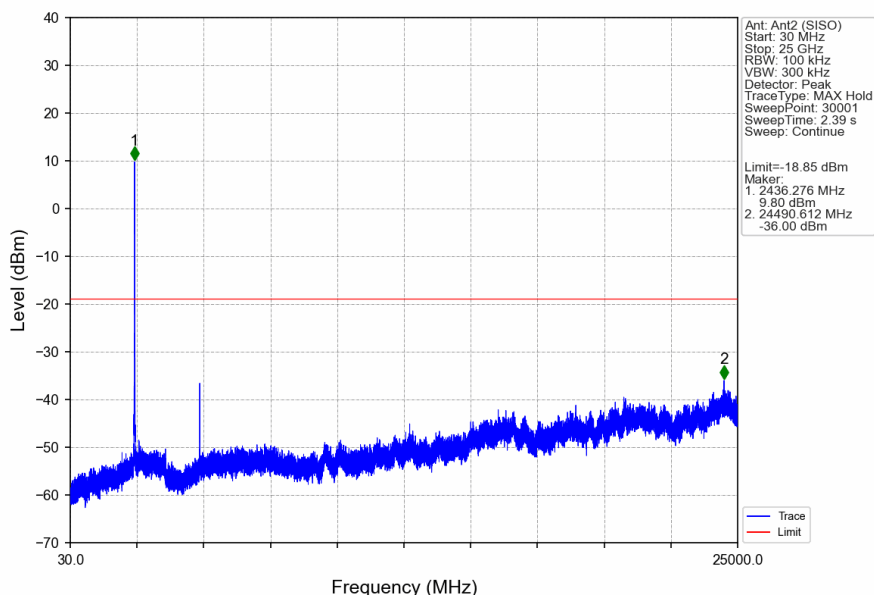
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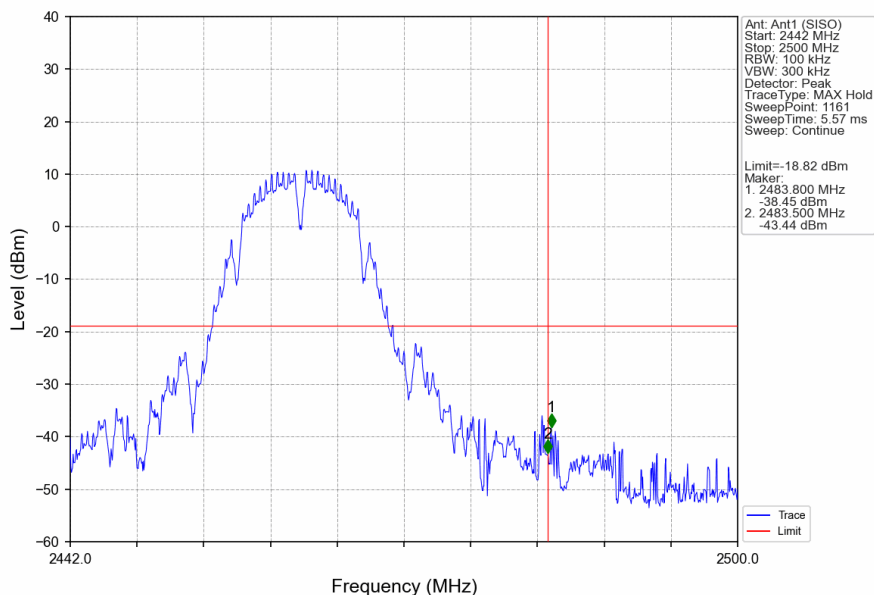
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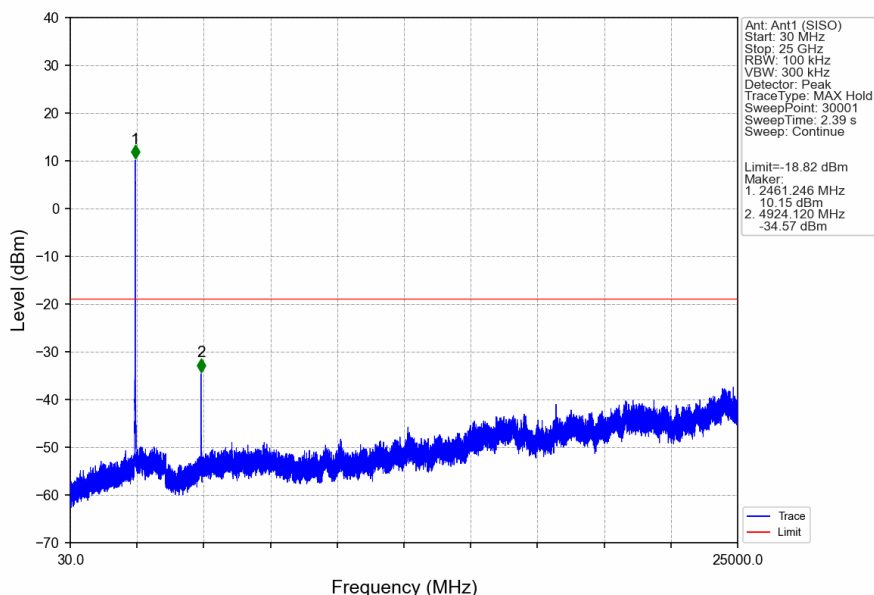
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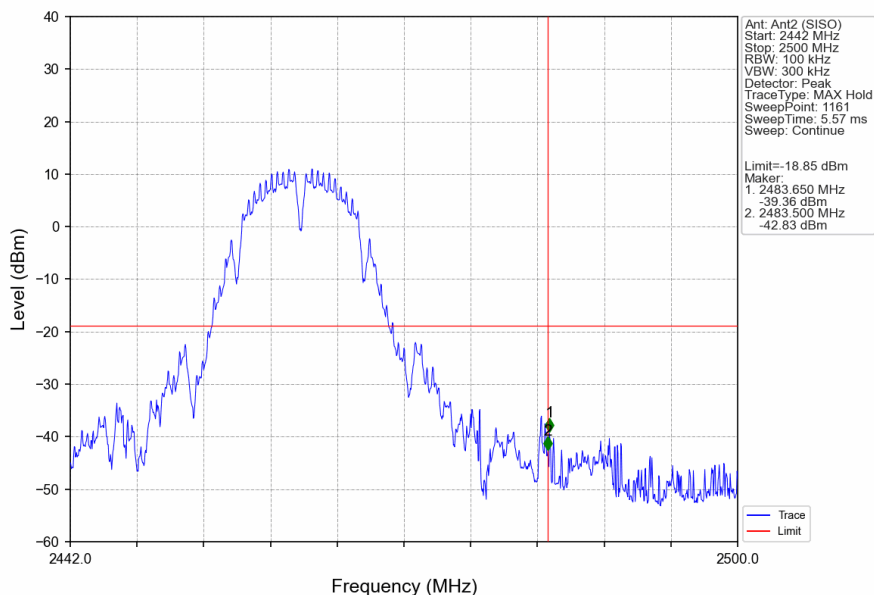
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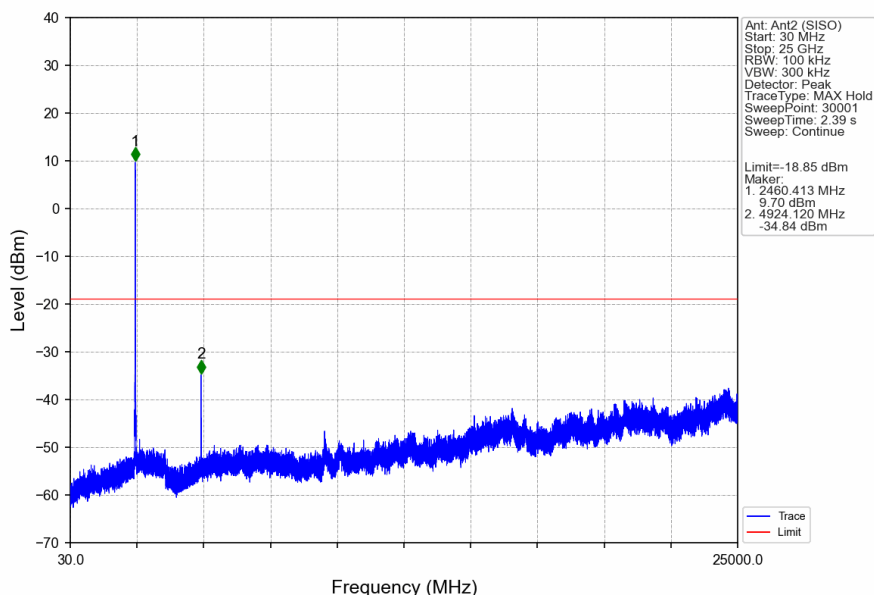
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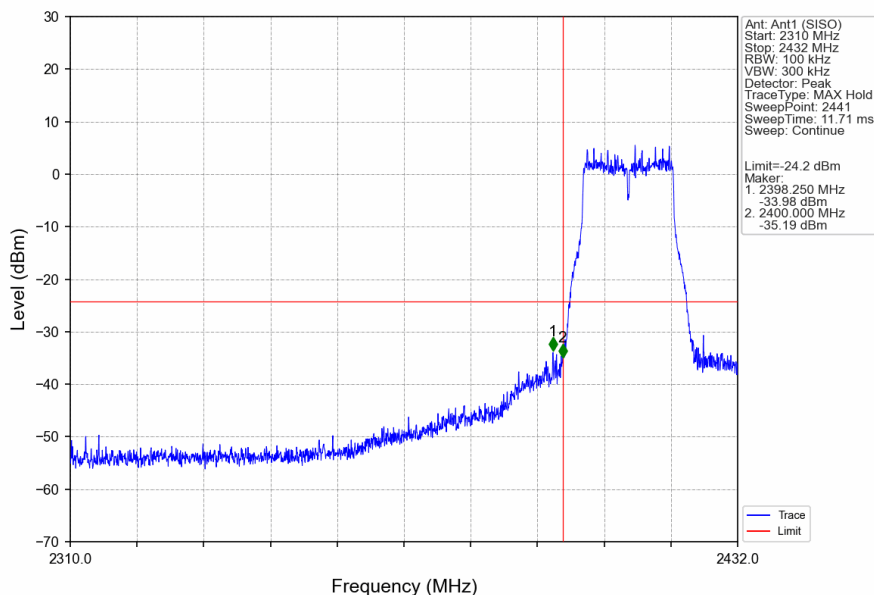
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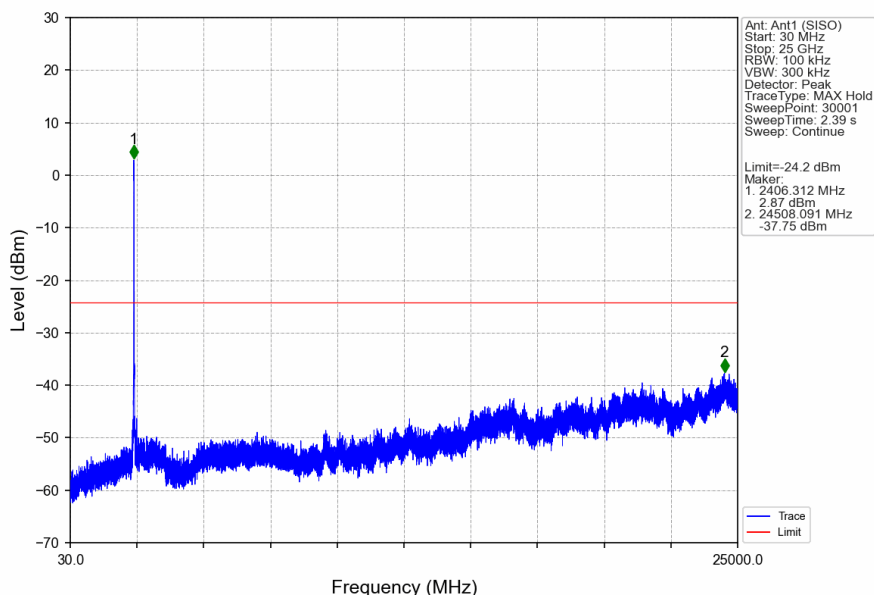
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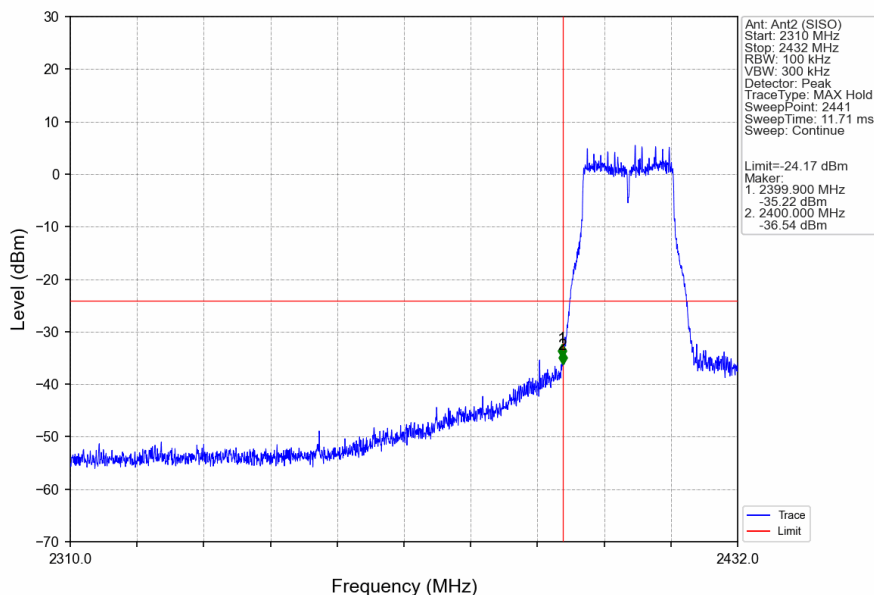
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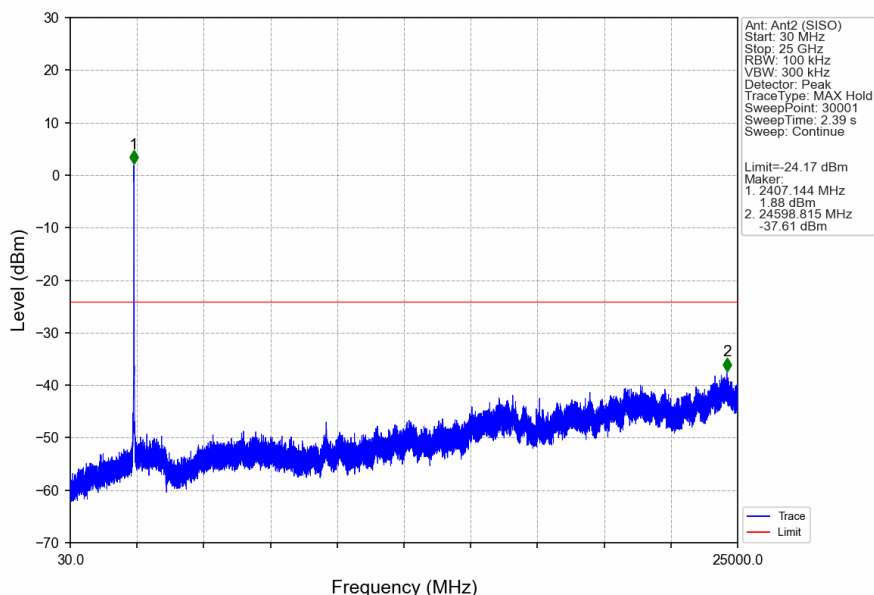
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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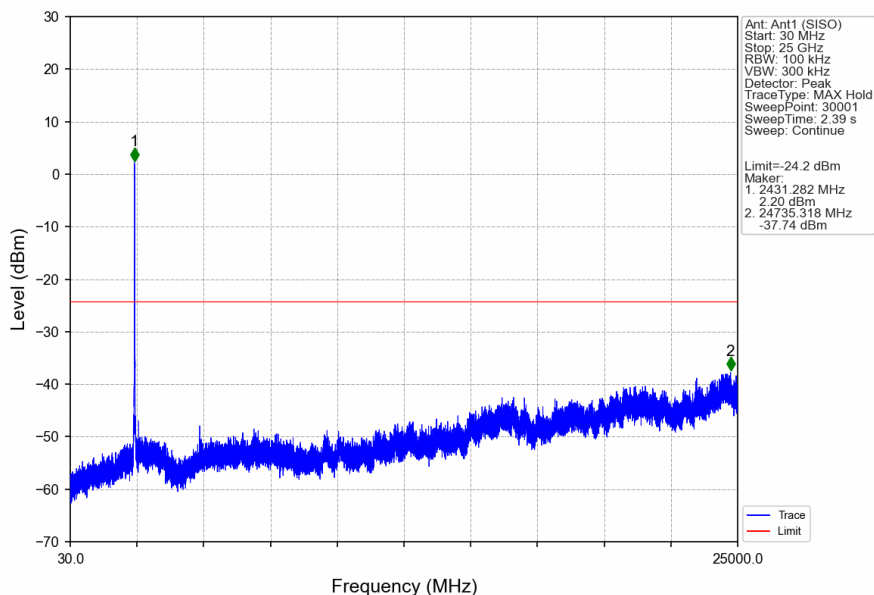
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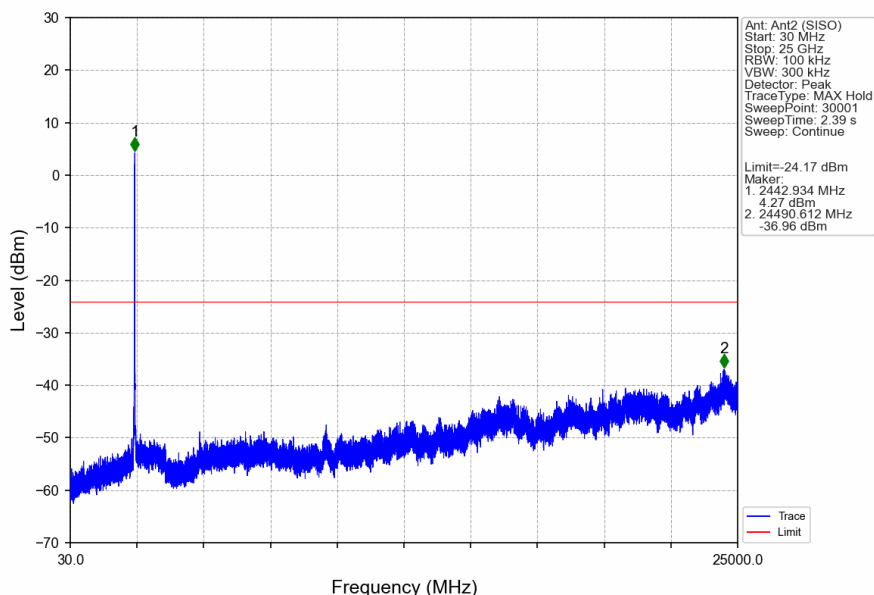
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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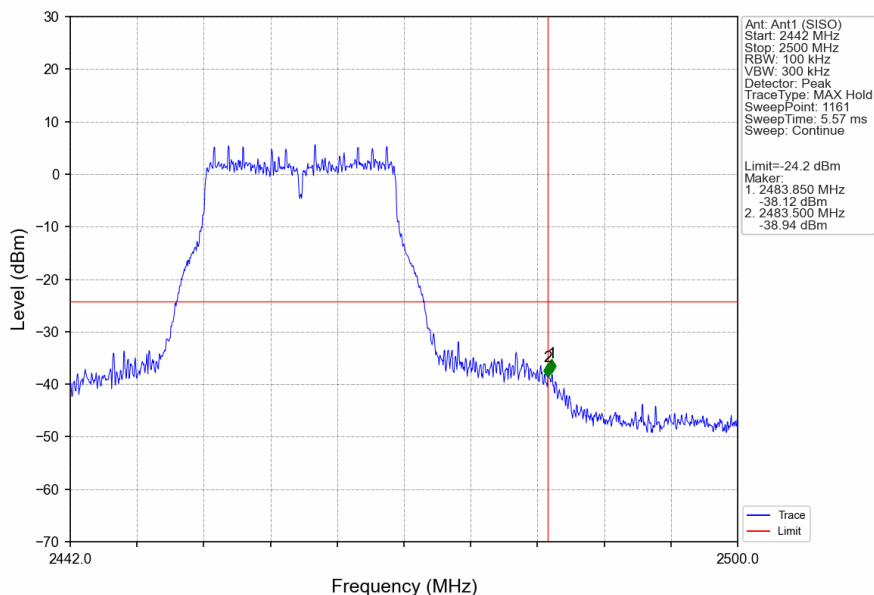
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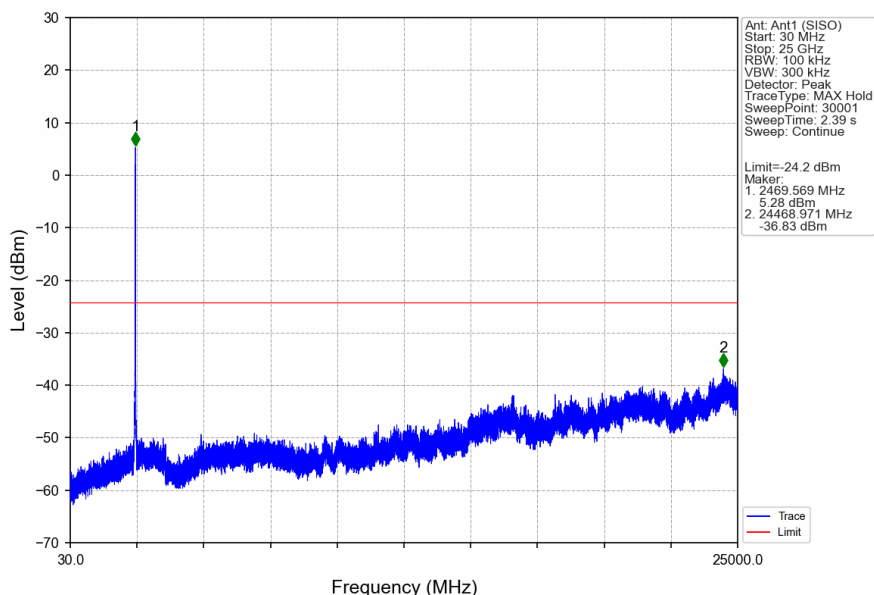
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

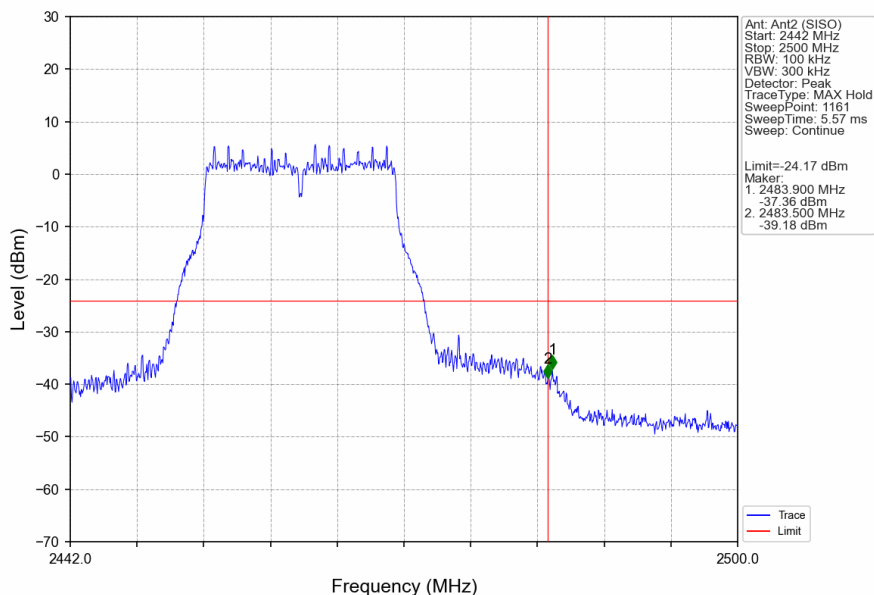


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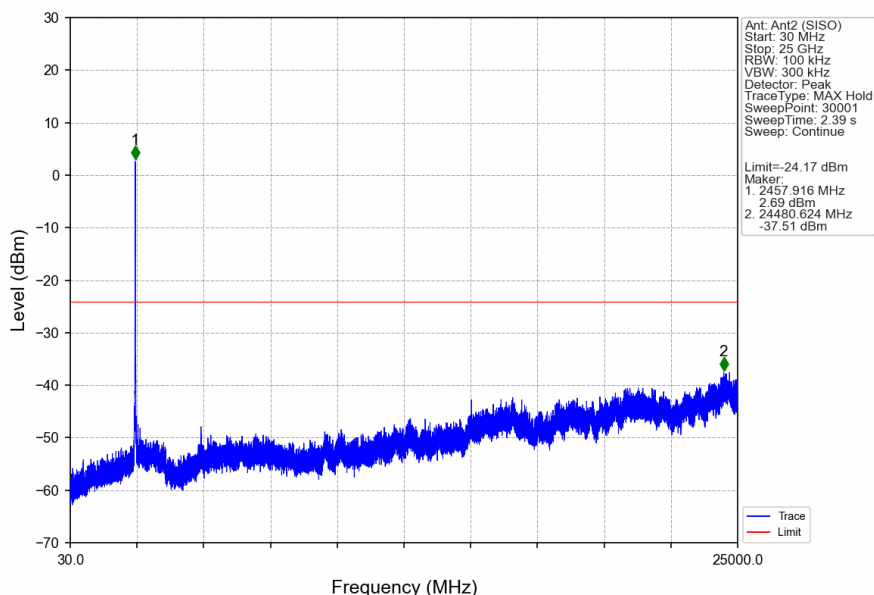
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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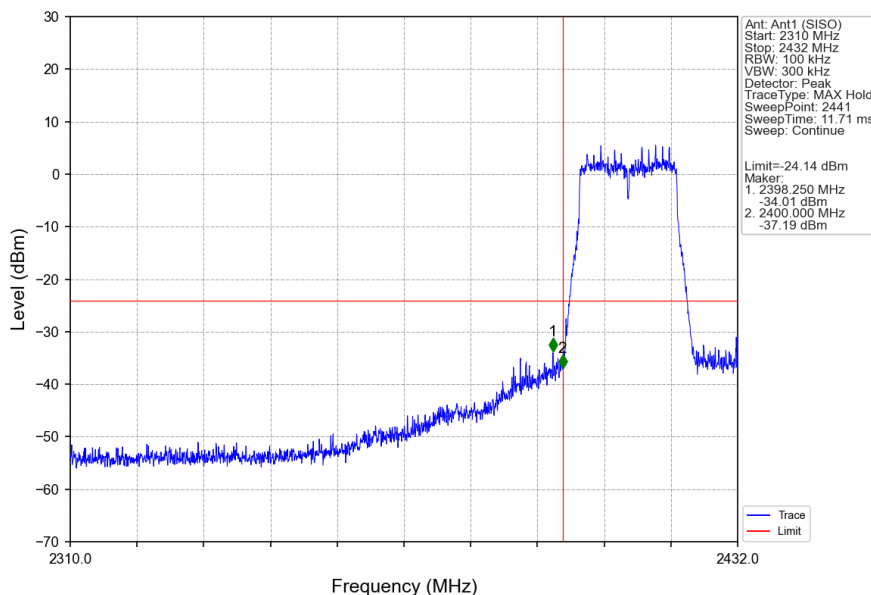
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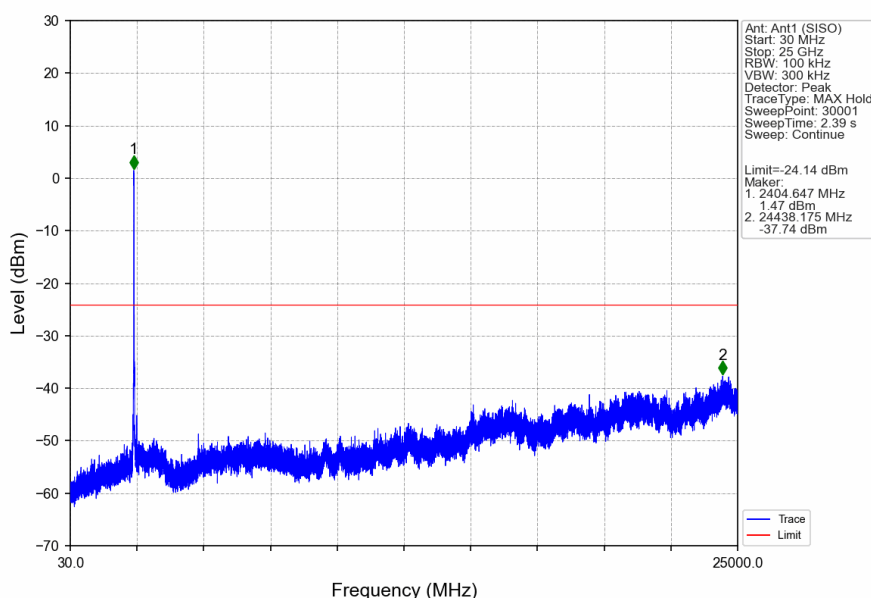
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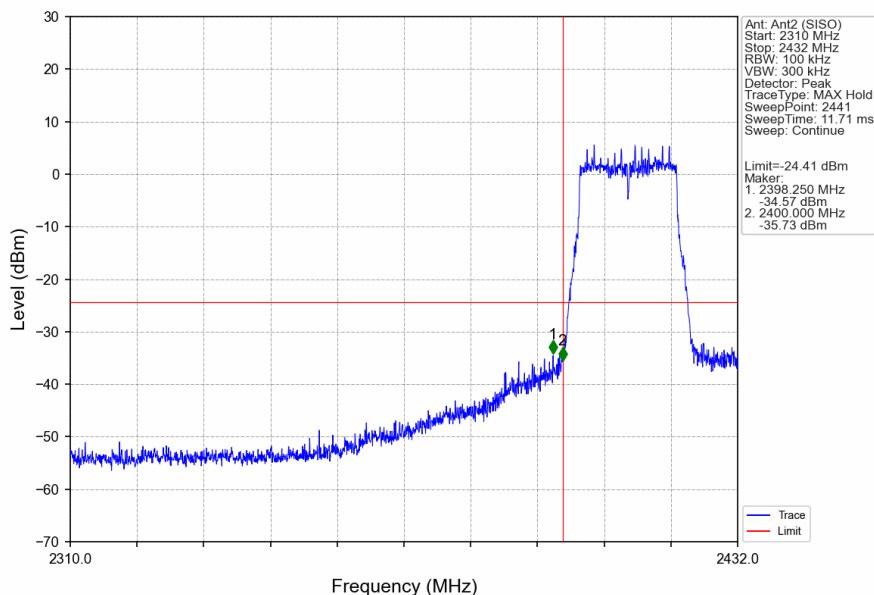
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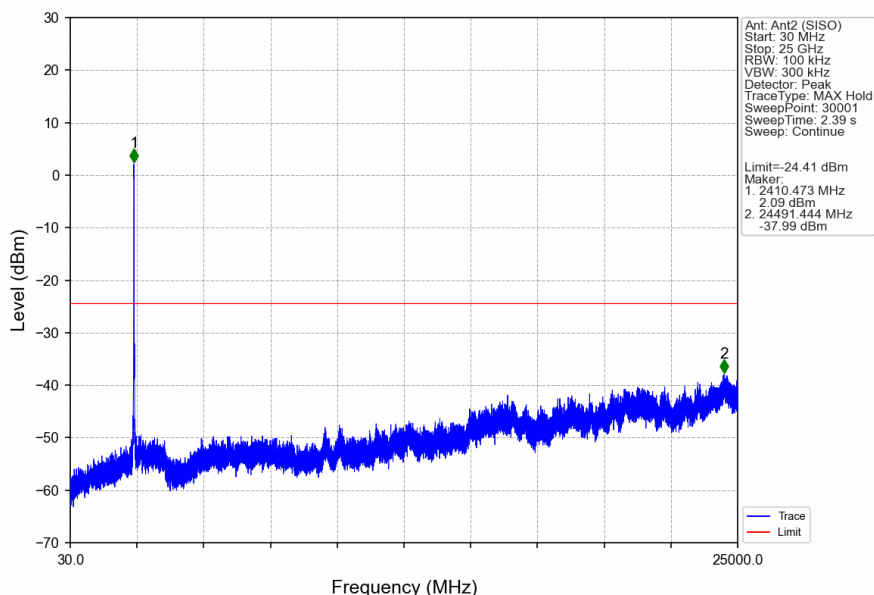
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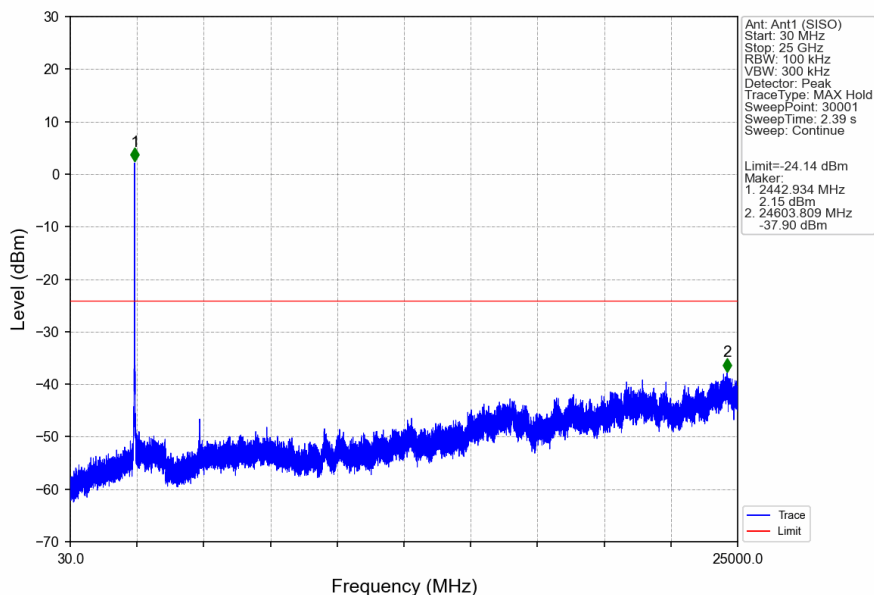
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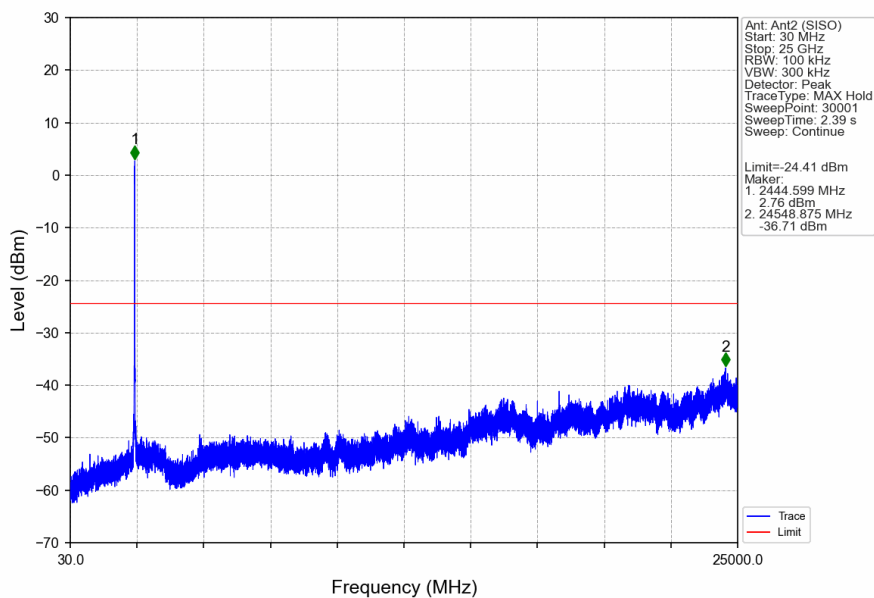
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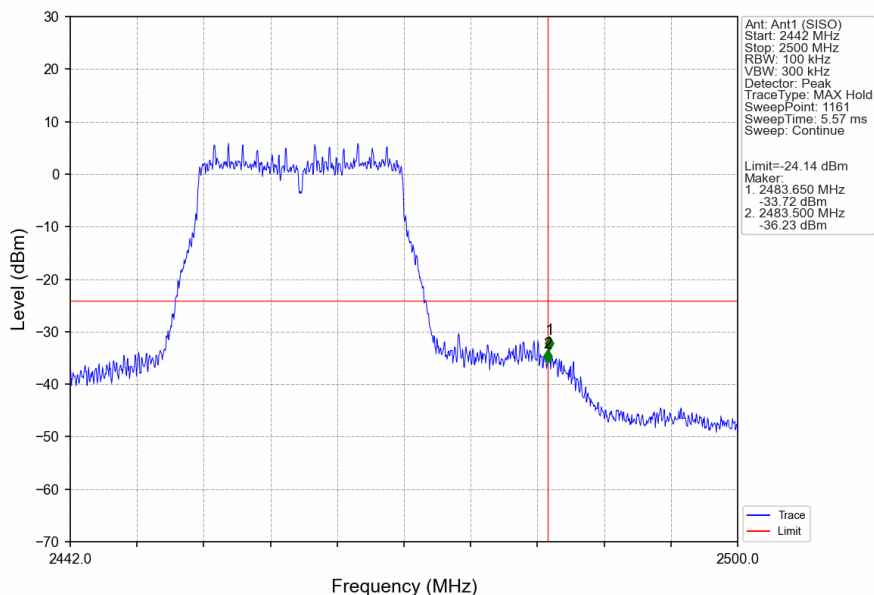
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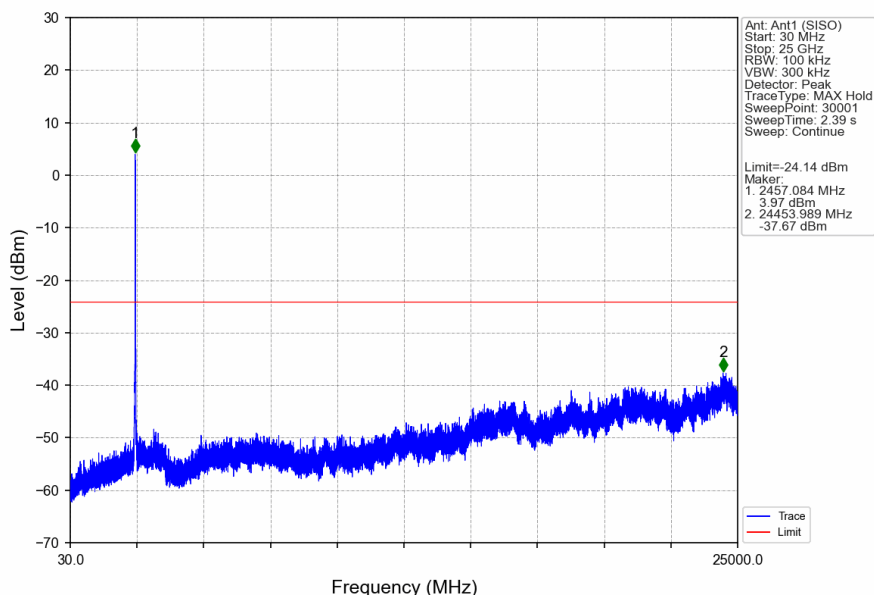
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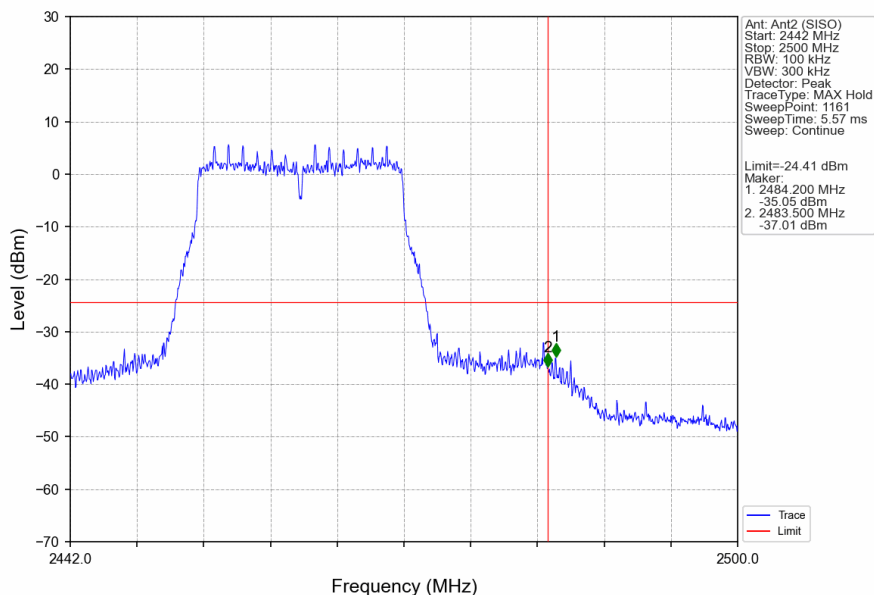
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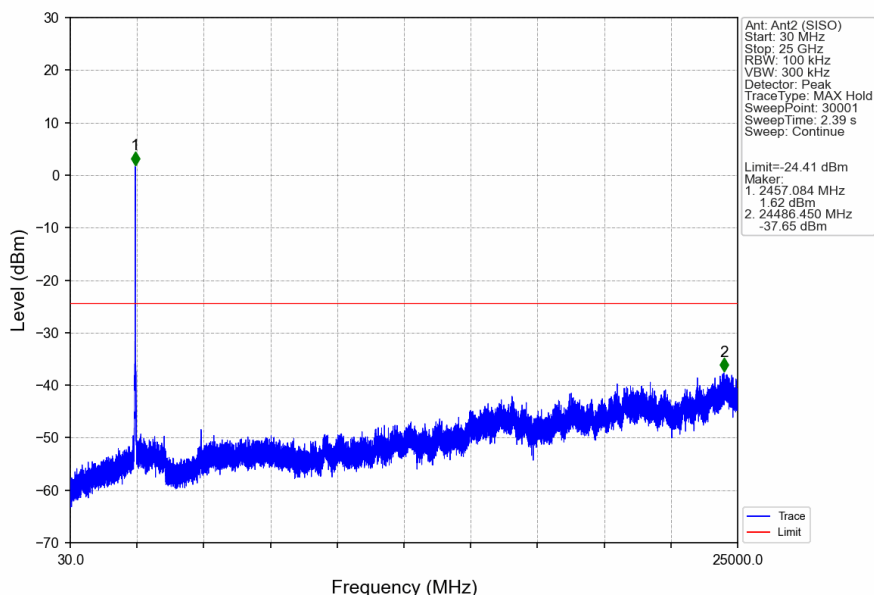
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