

Appendix A for KSCR220600090401

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 (%)
802.11b	SISO	2412	8.416	8.580	98.09	0.08	1.27
		2437	8.436	8.590	98.21	0.08	1.67
		2462	8.416	8.586	98.02	0.09	1.55
802.11g	SISO	2412	1.398	1.575	88.76	0.52	7.16
		2437	1.397	1.574	88.75	0.52	7.72
		2462	1.403	1.575	89.08	0.50	8.36
802.11n (HT20)	MIMO	2412	1.316	1.487	88.50	0.53	8.82
		2437	1.309	1.478	88.57	0.53	7.66
		2462	1.309	1.477	88.63	0.52	3.34



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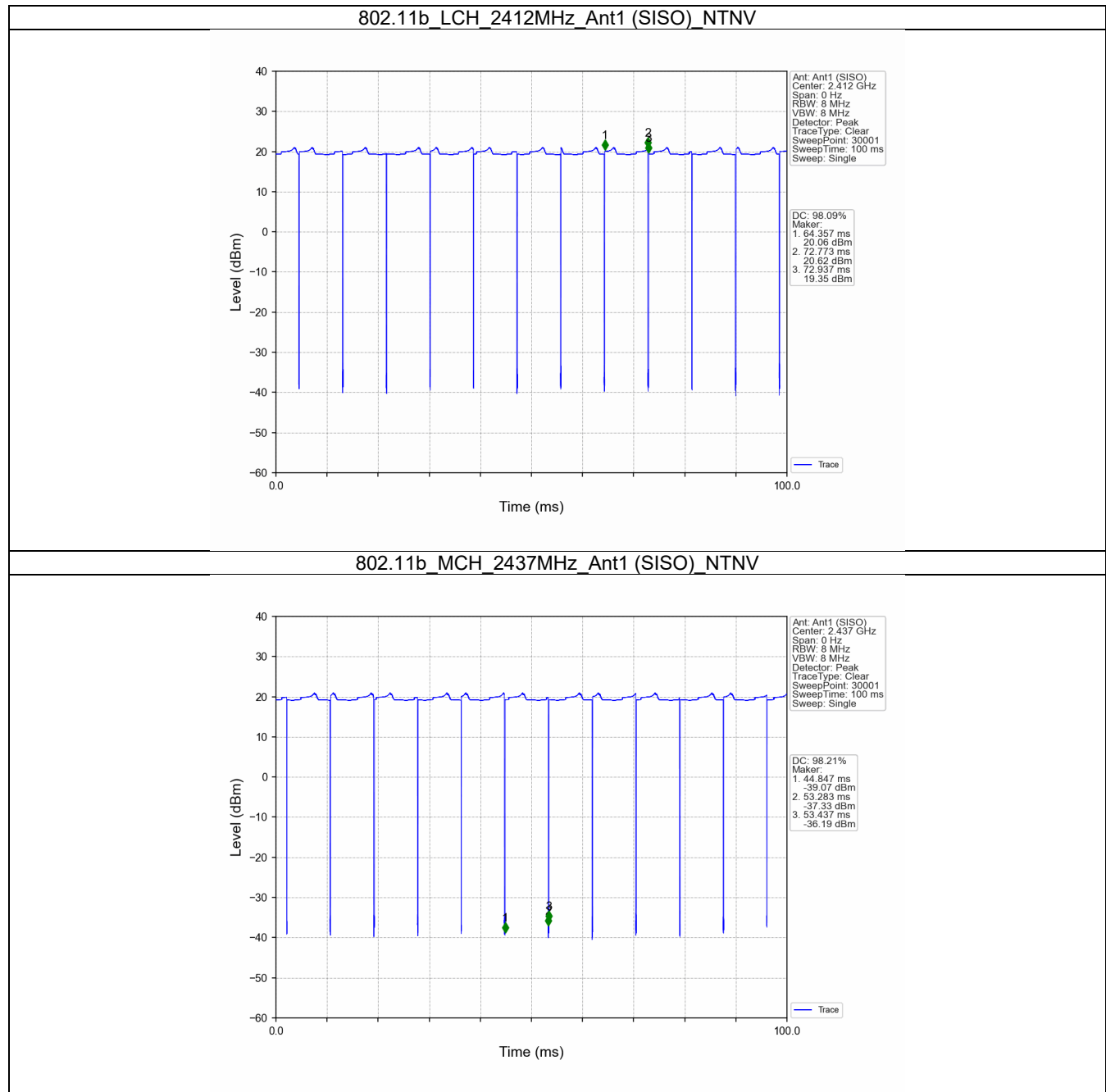
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1.1.2 Test Graph



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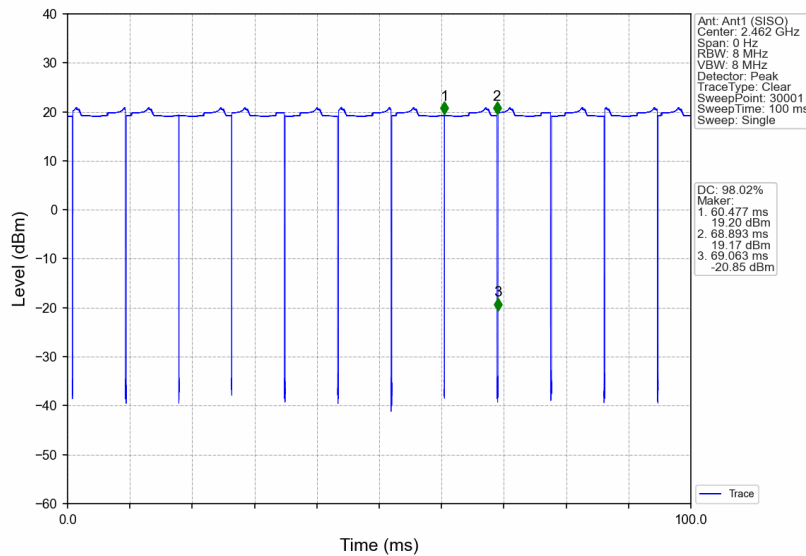
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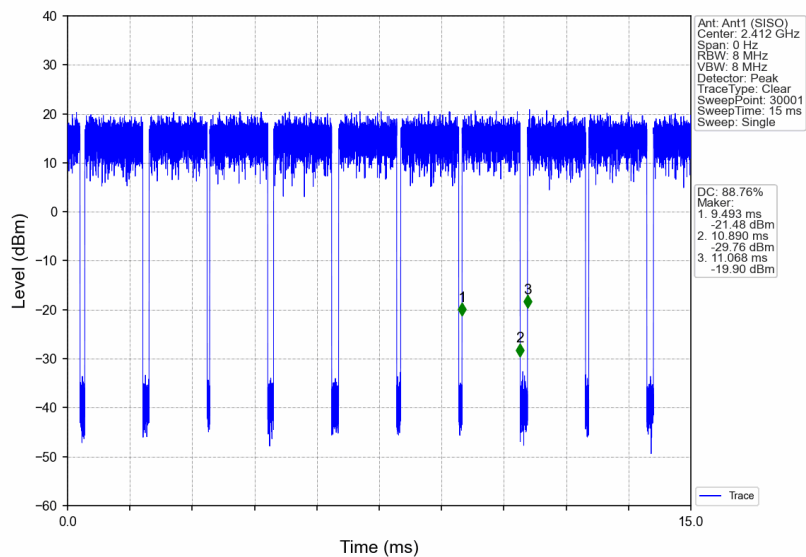
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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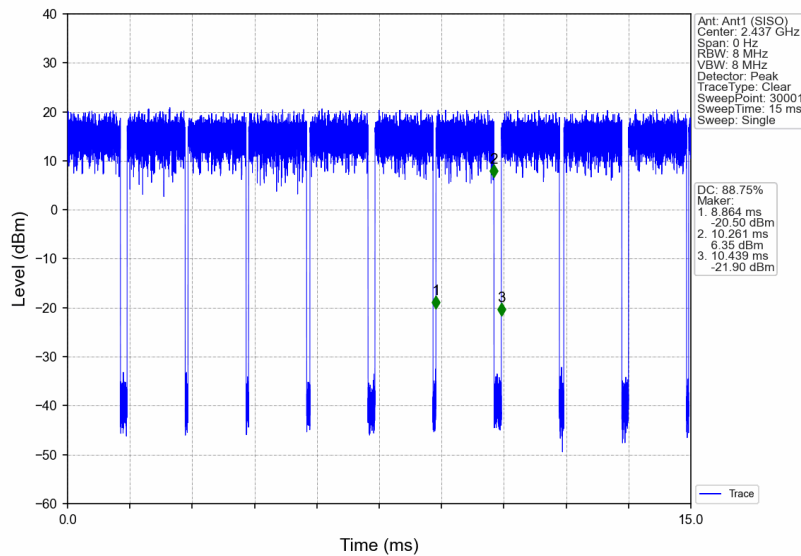
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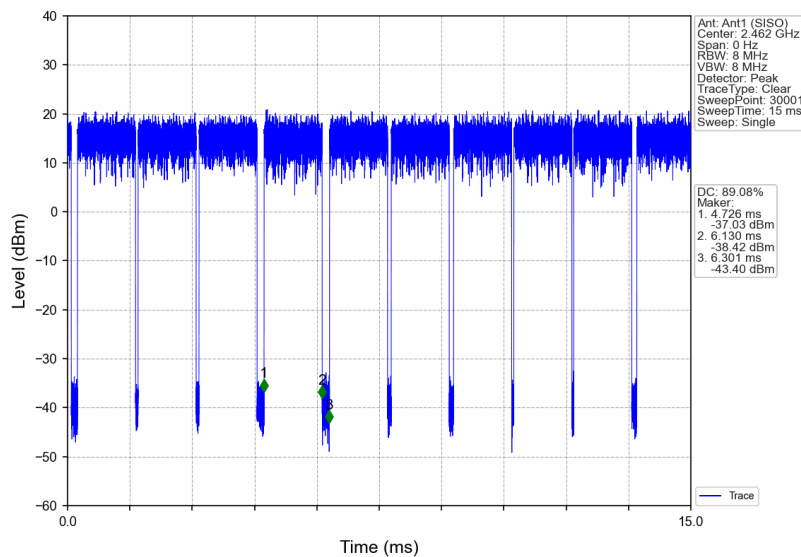
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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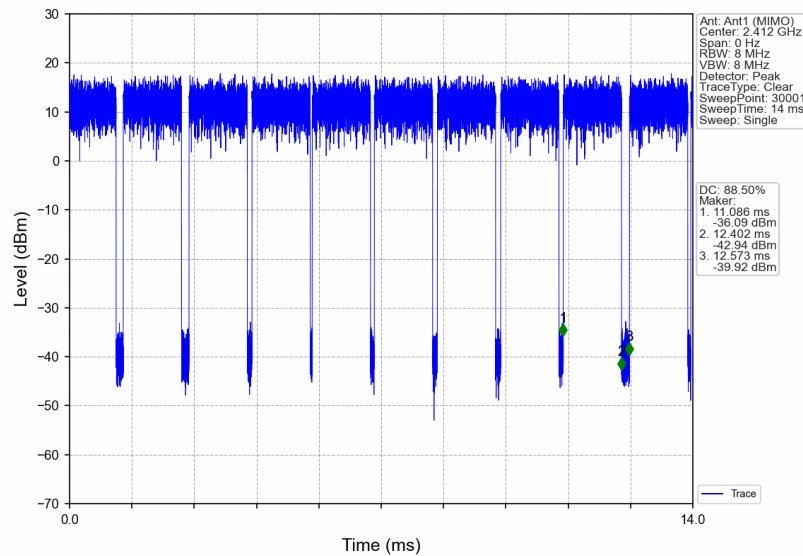
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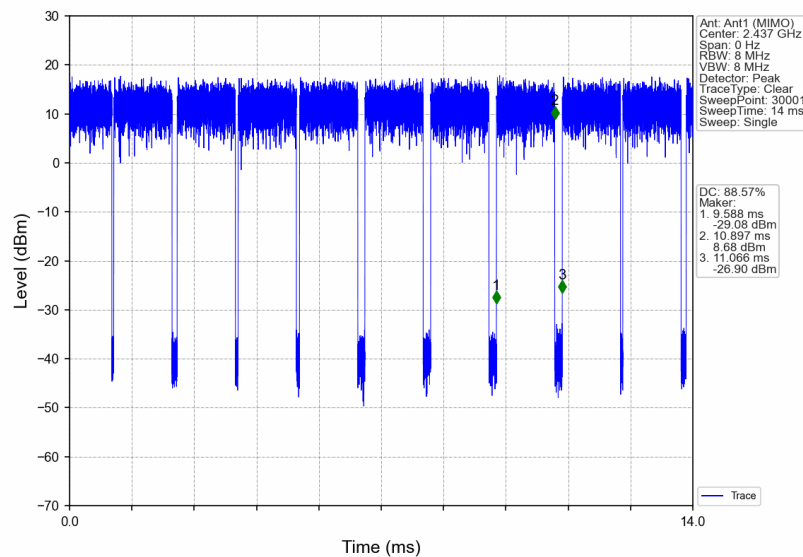
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTN



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO) NTN



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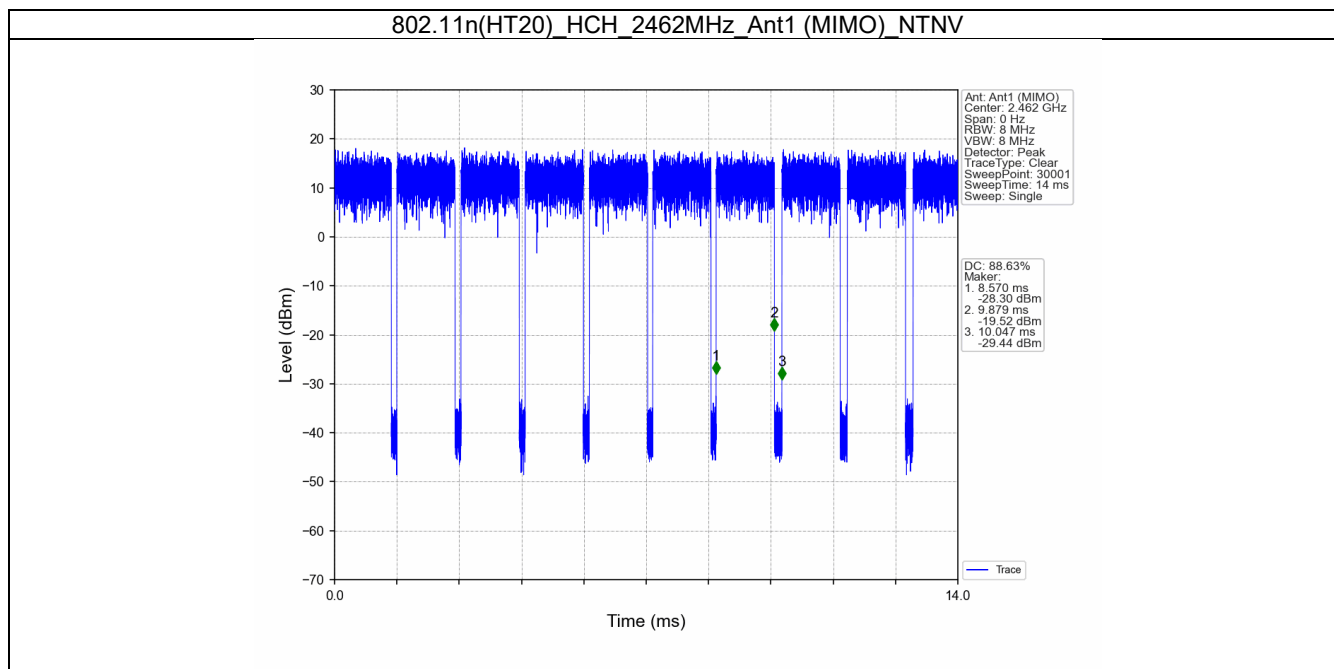
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.341	Pass
			2	14.197	Pass
		2437	1	14.339	Pass
			2	14.177	Pass
		2462	1	14.336	Pass
			2	14.205	Pass
802.11g	SISO	2412	1	17.521	Pass
			2	17.551	Pass
		2437	1	17.516	Pass
			2	17.516	Pass
		2462	1	17.517	Pass
			2	17.542	Pass
802.11n (HT20)	MIMO	2412	1	17.993	Pass
			2	17.679	Pass
		2437	1	18.001	Pass
			2	17.677	Pass
		2462	1	17.970	Pass
			2	17.699	Pass



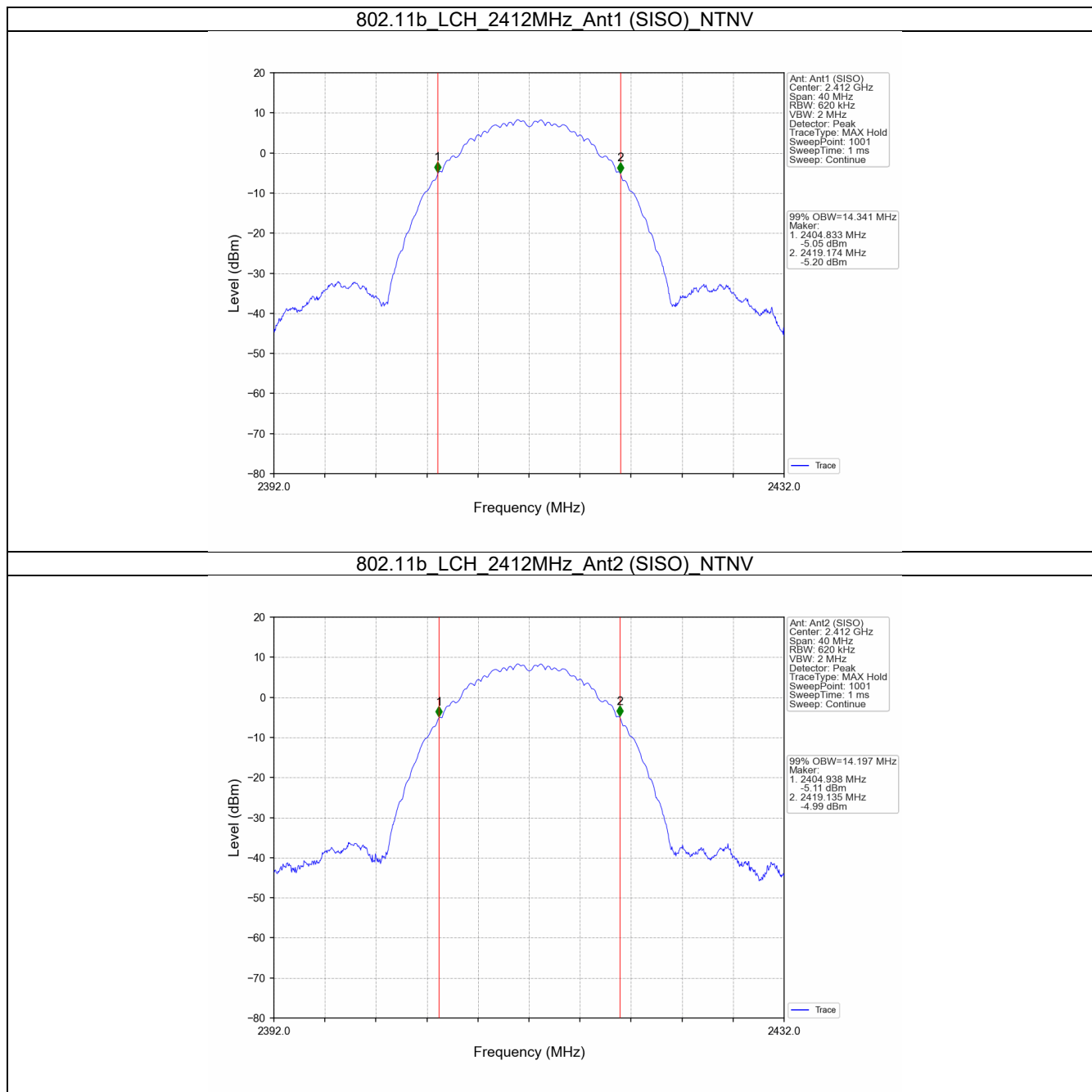
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2.1.2 Test Graph



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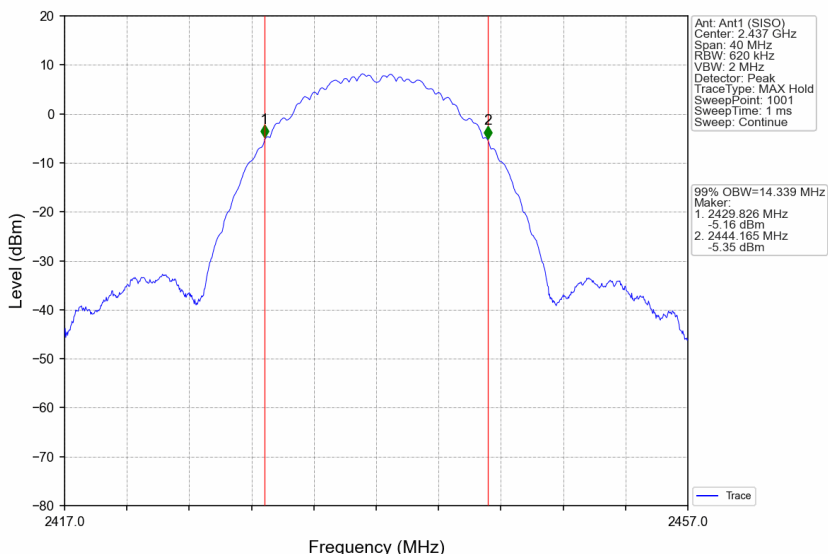
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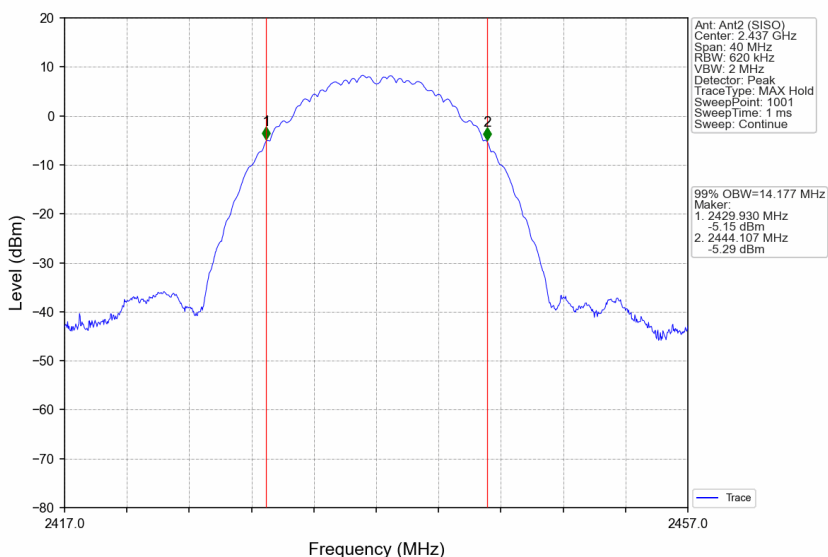
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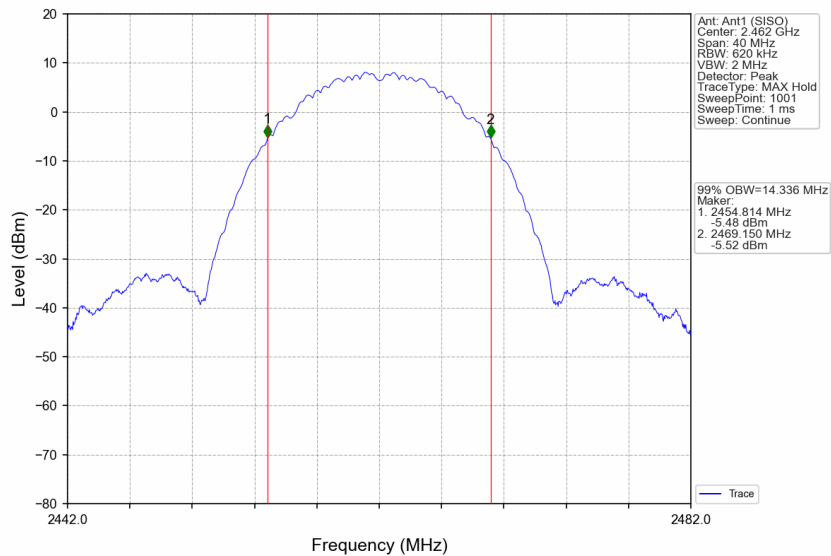
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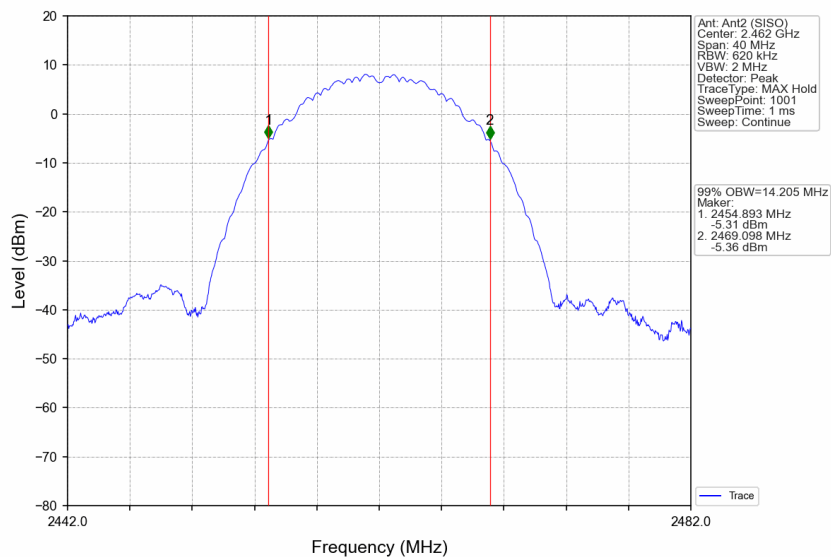
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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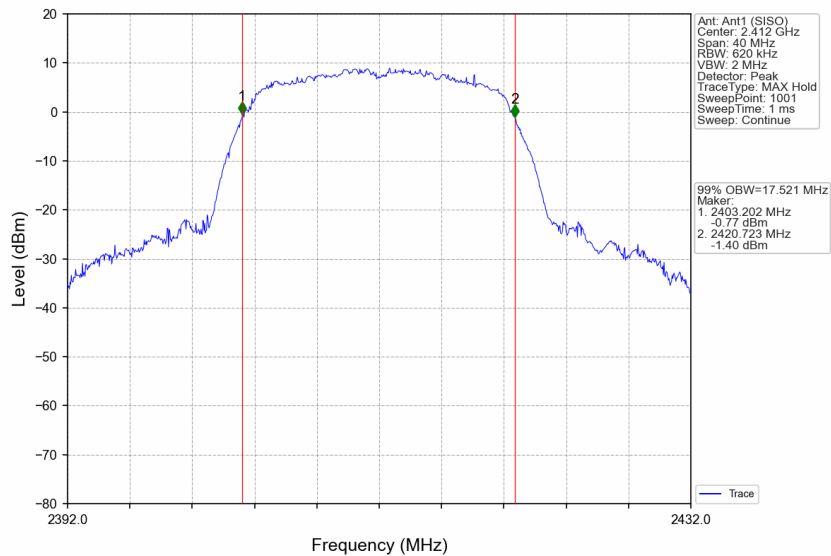
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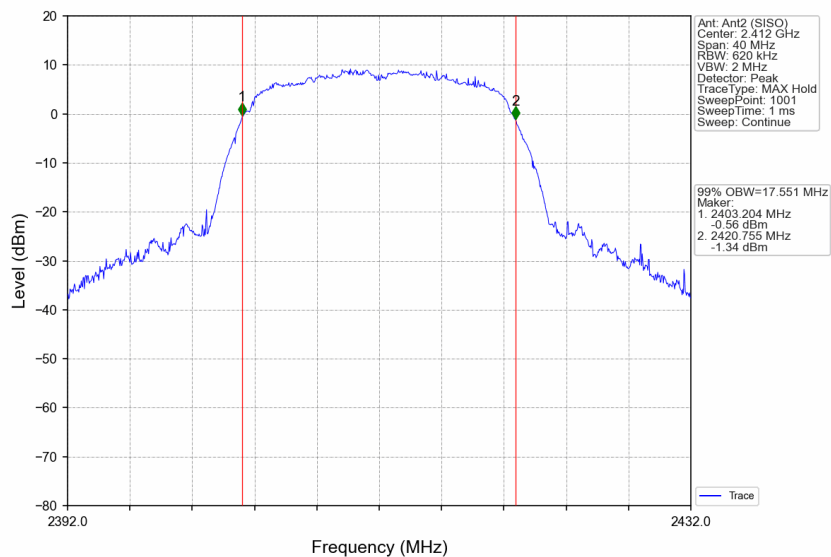
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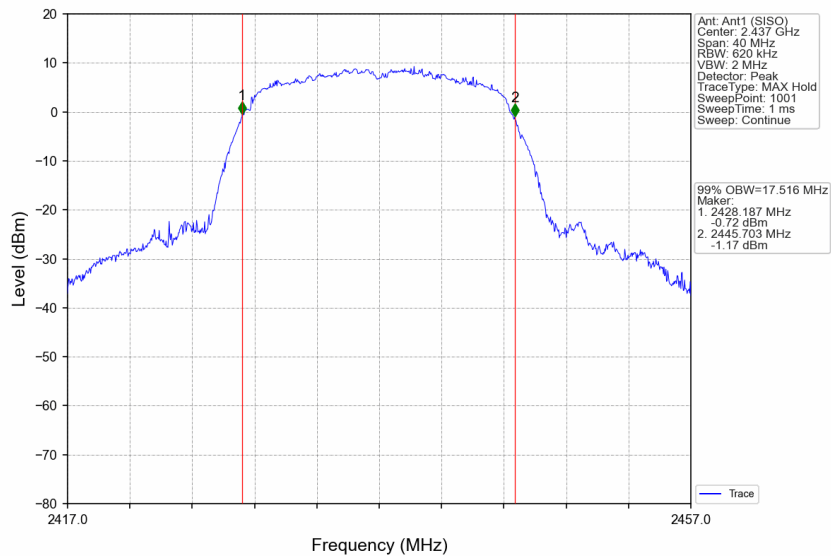
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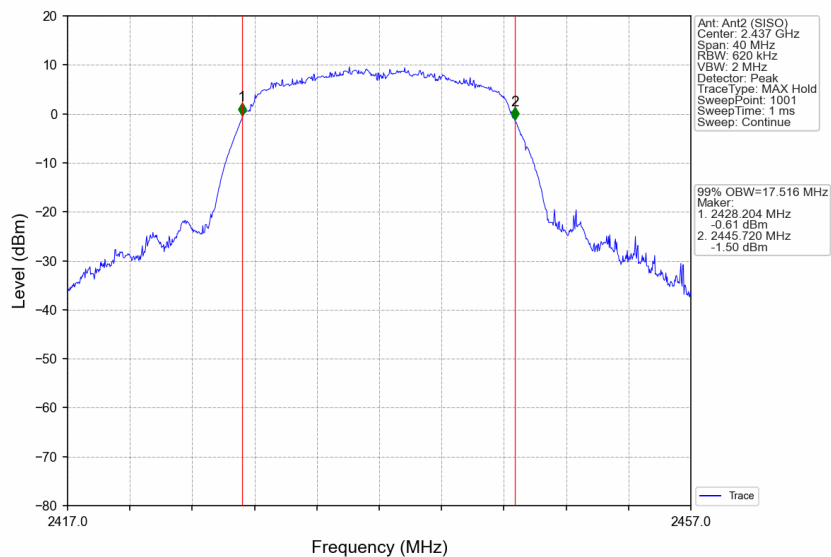
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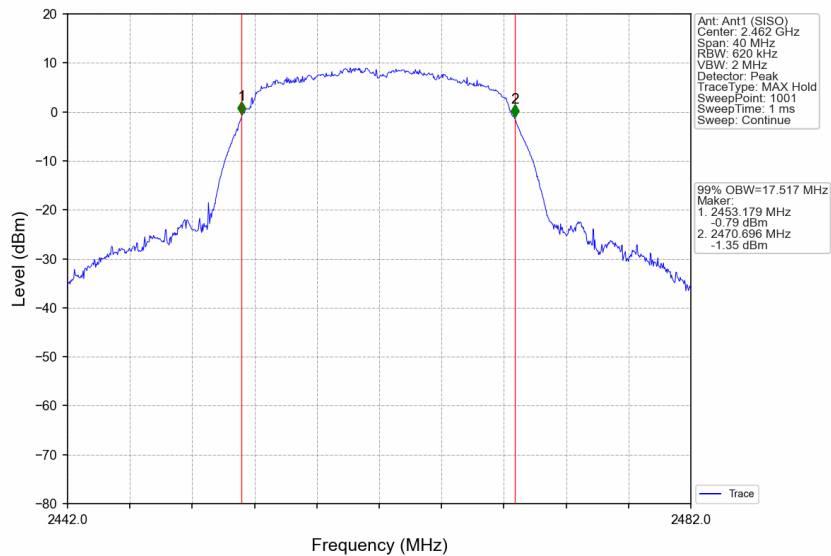
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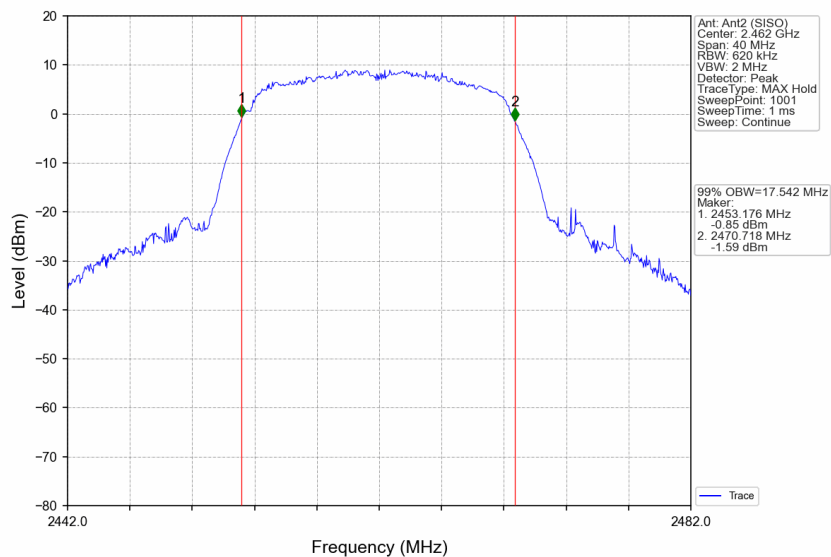
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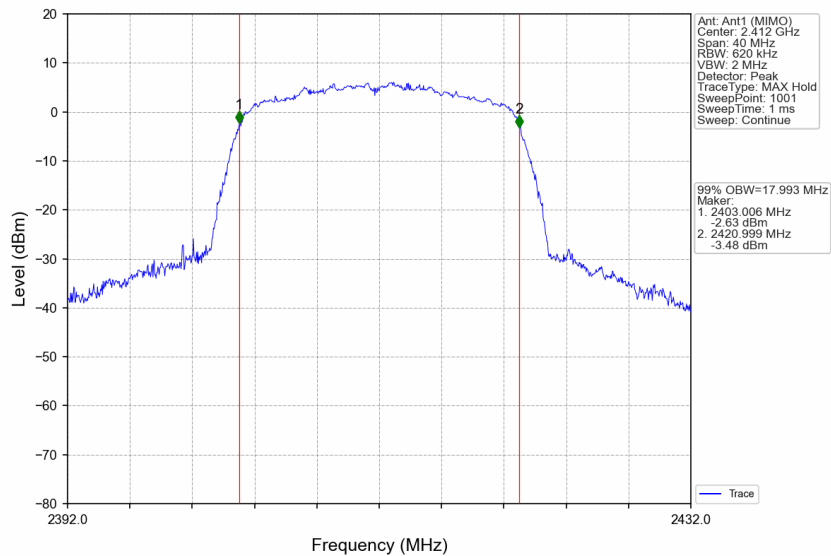
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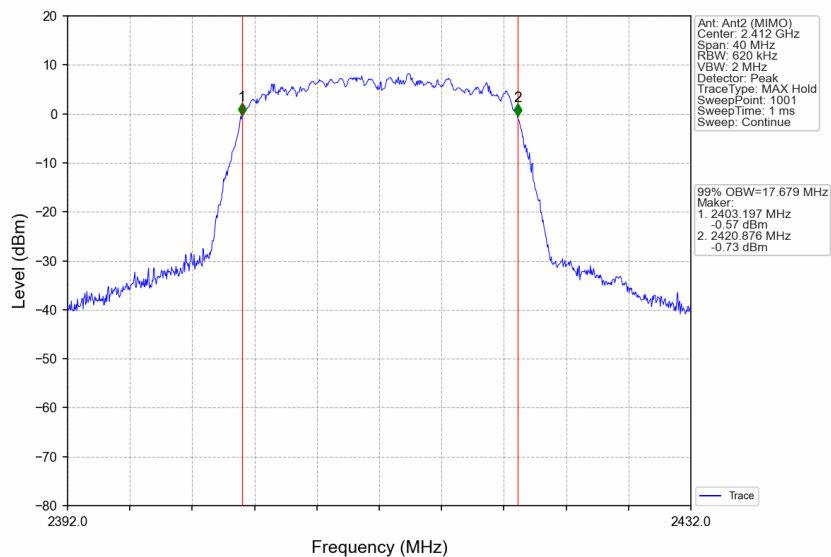
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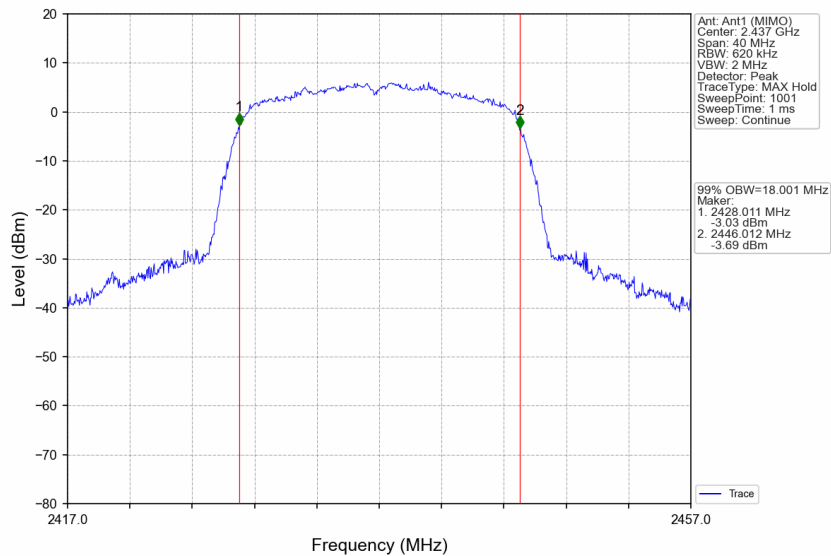
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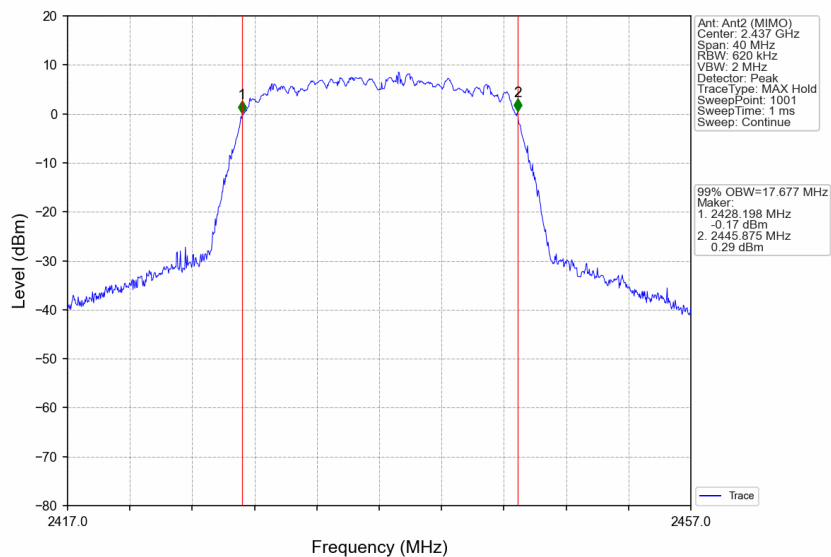
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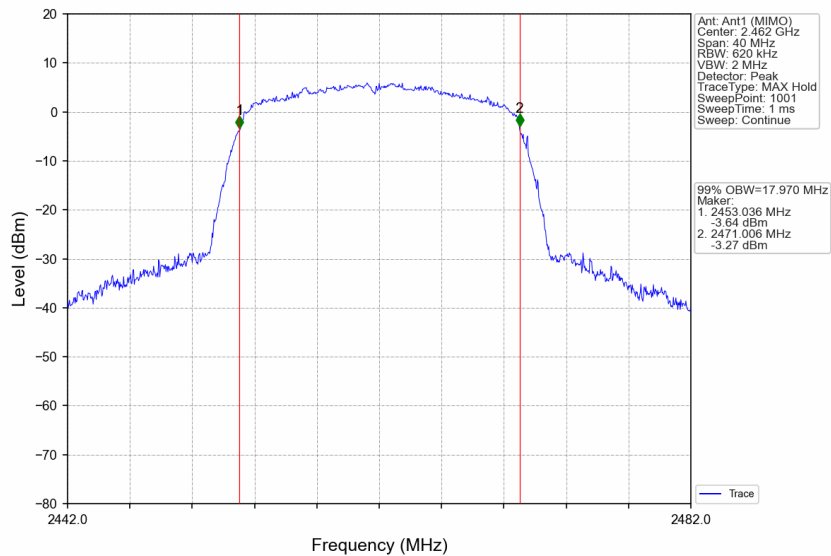
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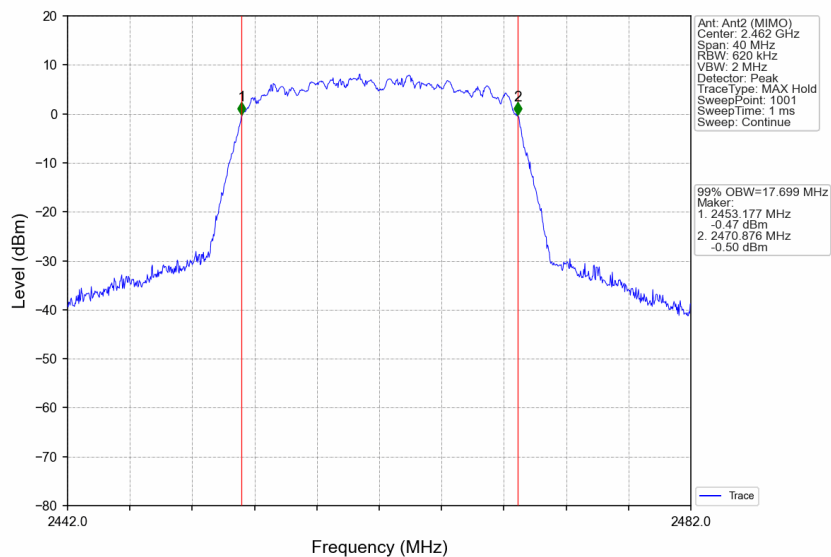
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.059	≥ 0.5	Pass
			2	10.052	≥ 0.5	Pass
		2437	1	10.058	≥ 0.5	Pass
			2	10.051	≥ 0.5	Pass
		2462	1	10.057	≥ 0.5	Pass
			2	10.049	≥ 0.5	Pass
802.11g	SISO	2412	1	15.139	≥ 0.5	Pass
			2	15.128	≥ 0.5	Pass
		2437	1	15.146	≥ 0.5	Pass
			2	15.143	≥ 0.5	Pass
		2462	1	15.142	≥ 0.5	Pass
			2	15.109	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.128	≥ 0.5	Pass
			2	15.150	≥ 0.5	Pass
		2437	1	15.130	≥ 0.5	Pass
			2	15.140	≥ 0.5	Pass
		2462	1	15.125	≥ 0.5	Pass
			2	15.147	≥ 0.5	Pass



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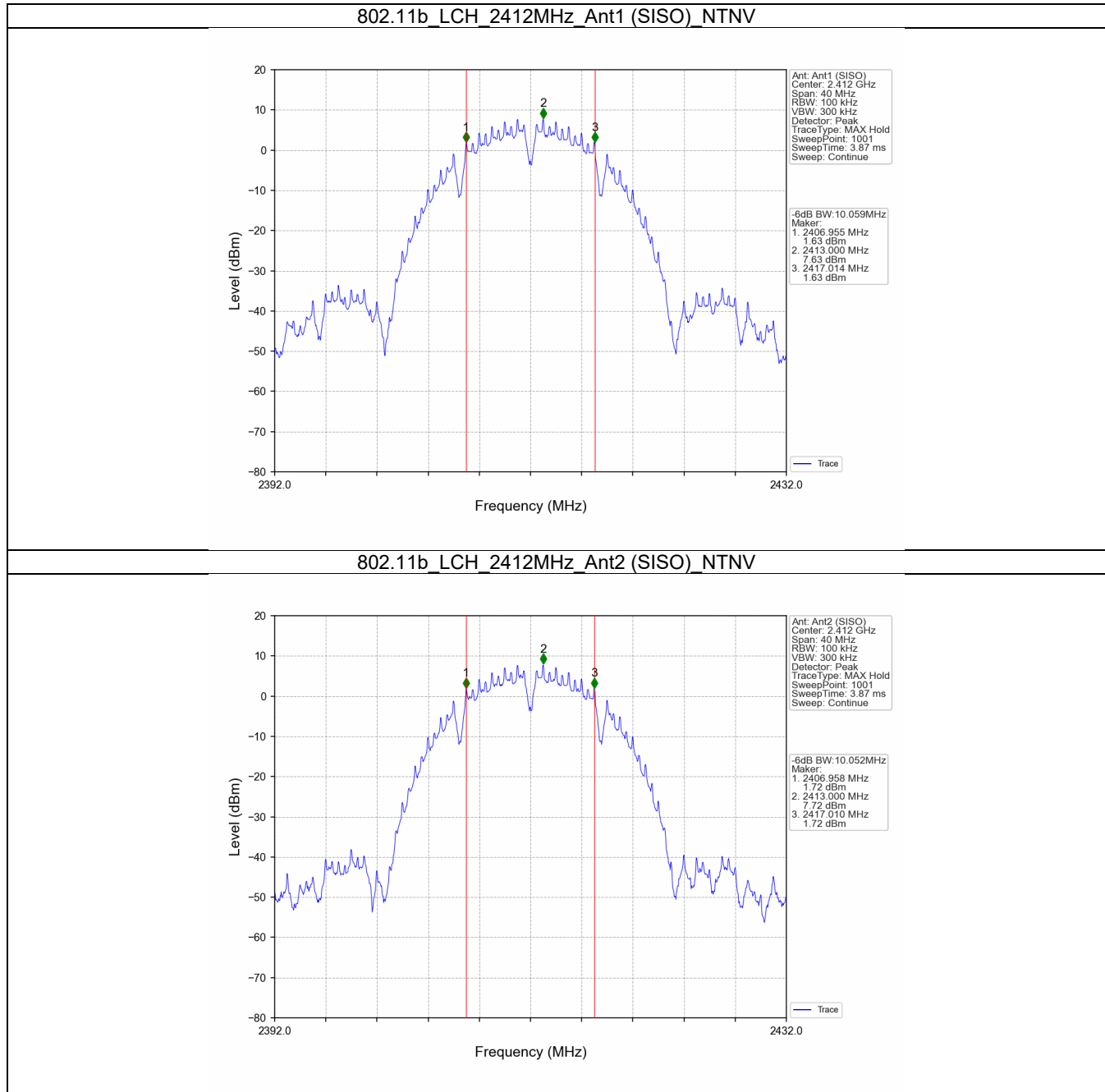
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2.2.2 Test Graph



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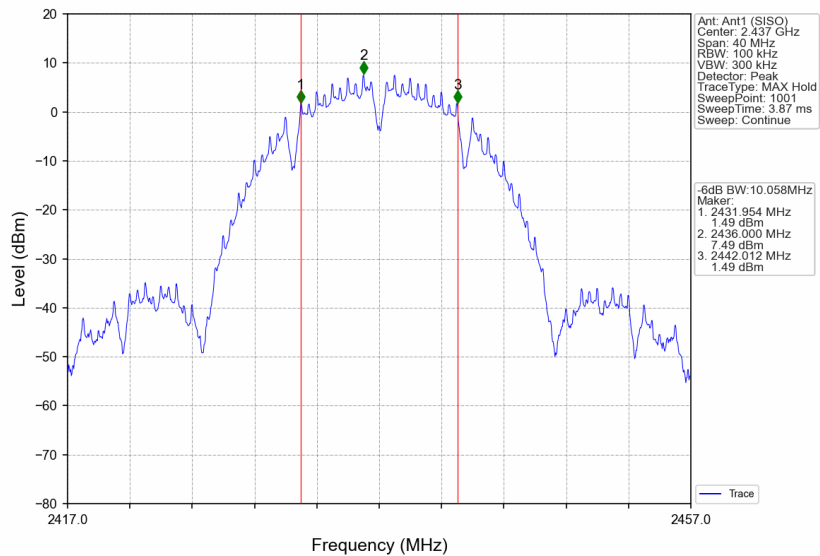
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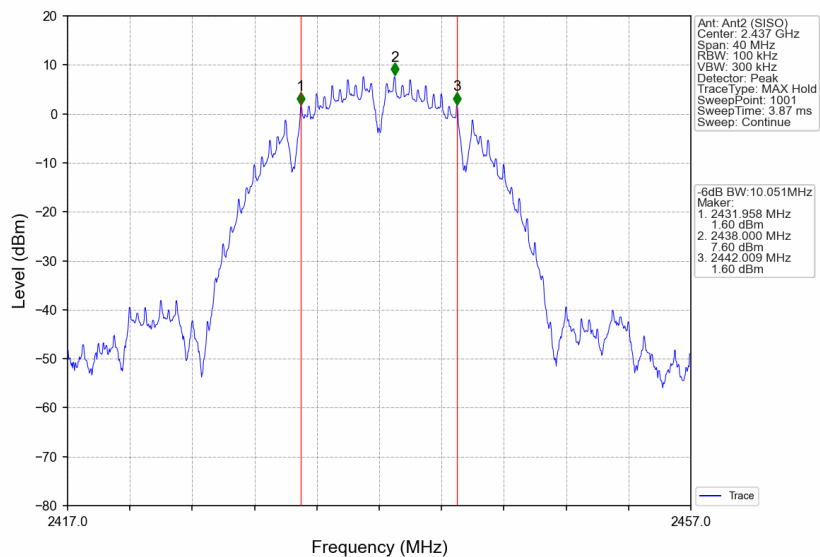
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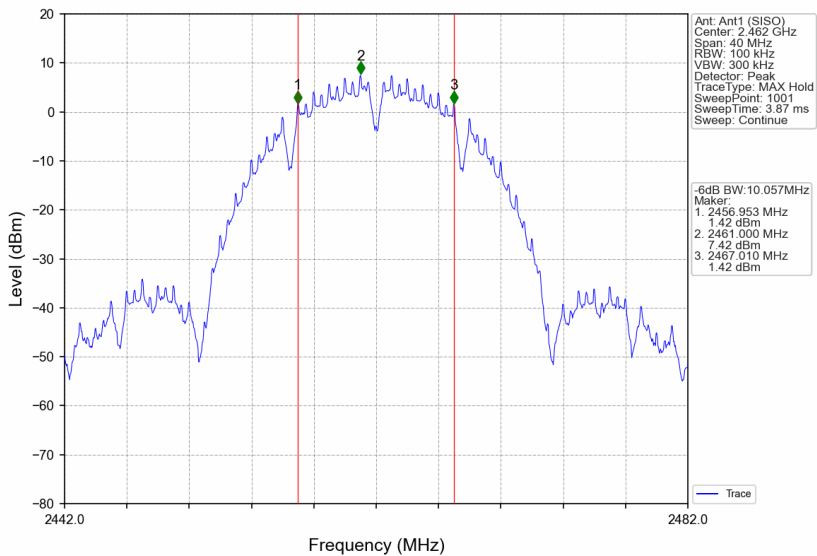
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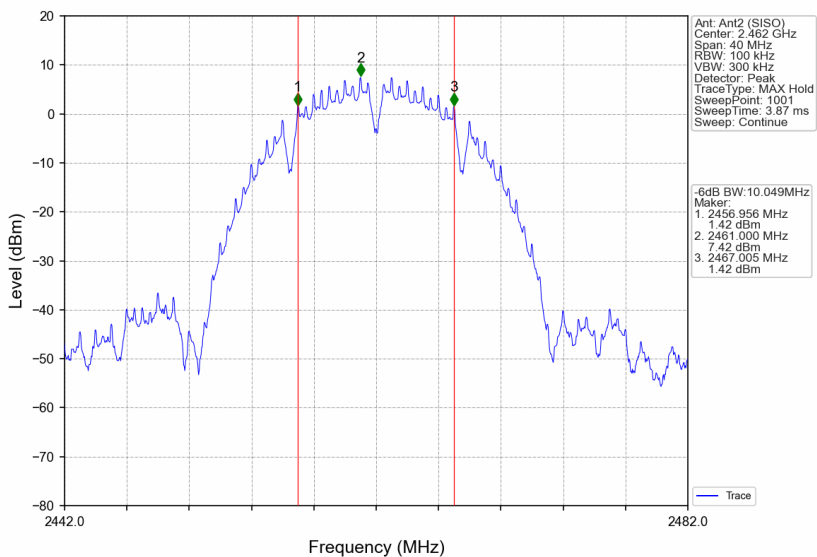
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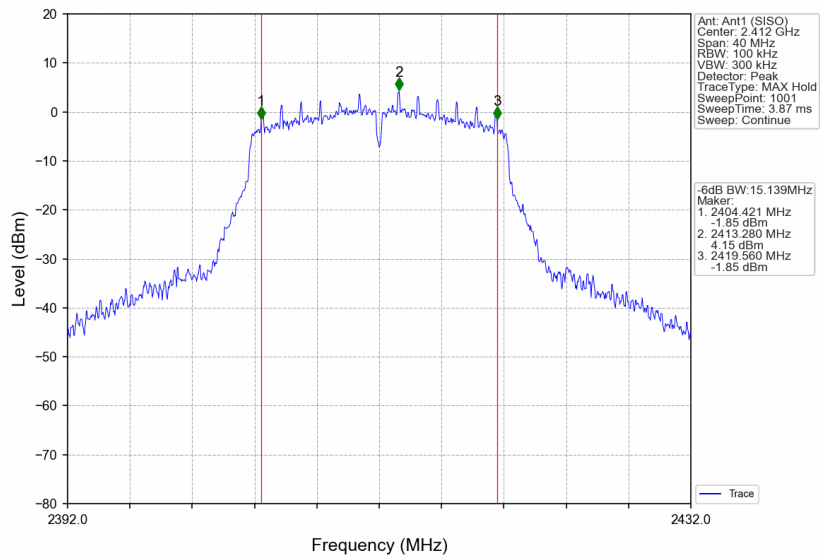
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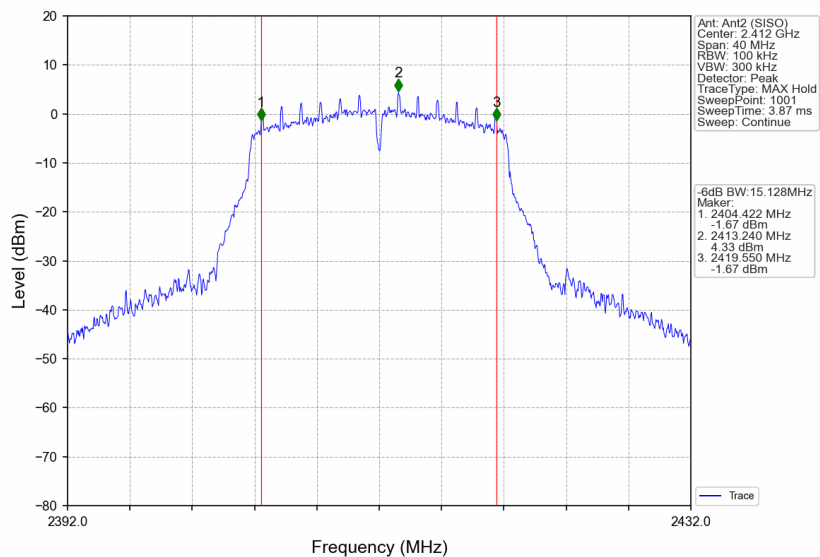
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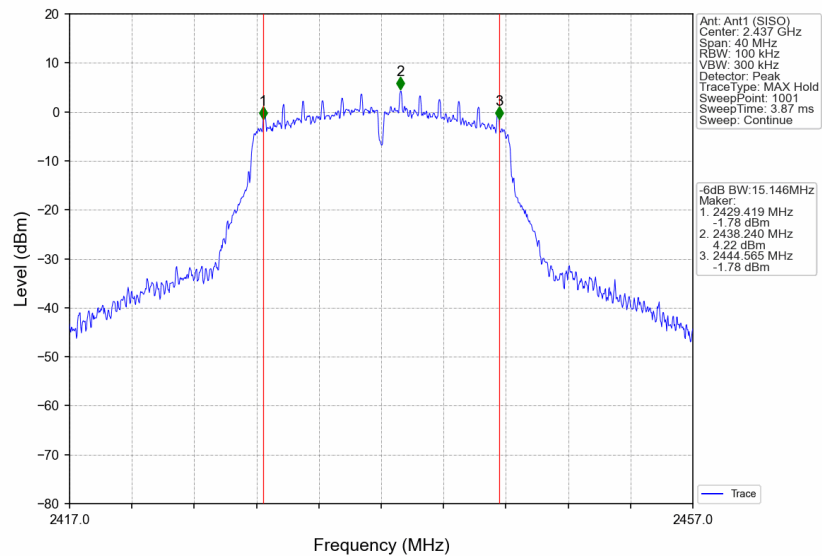
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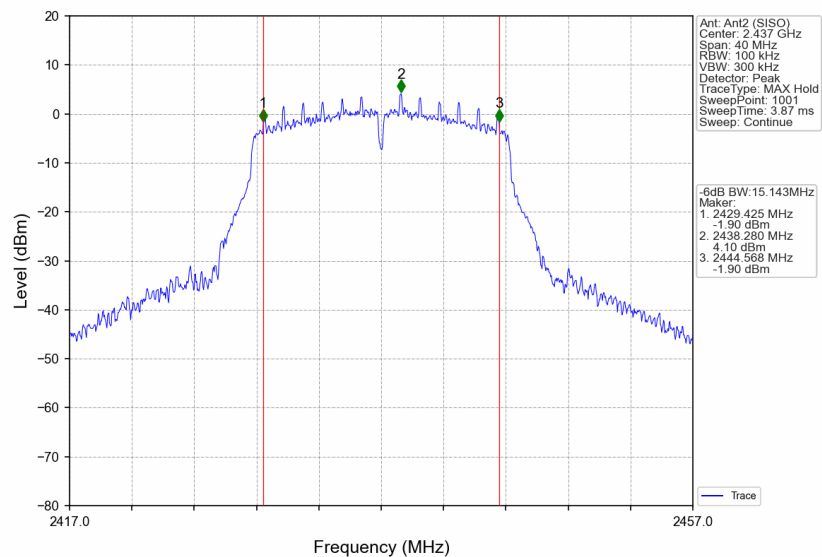
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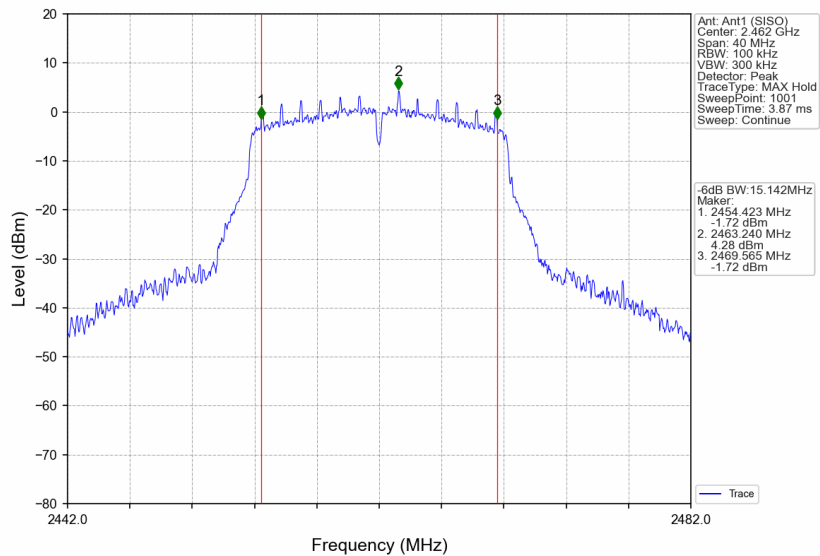
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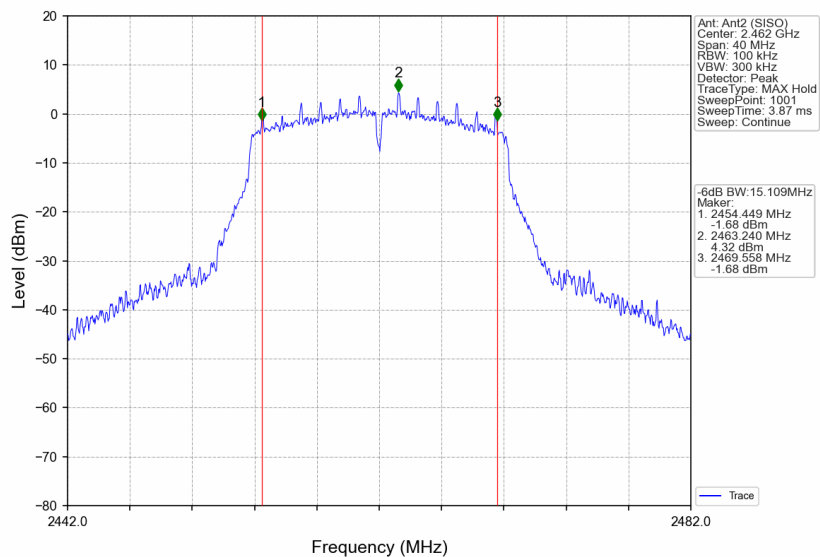
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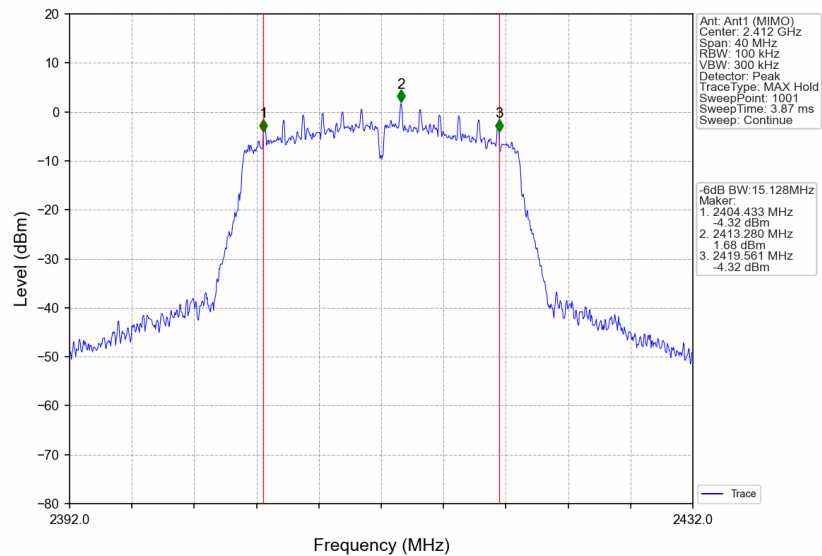
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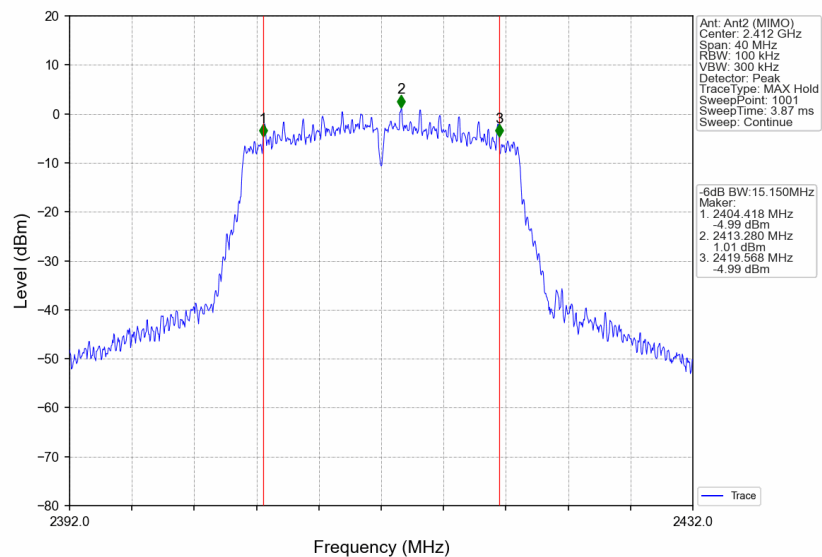
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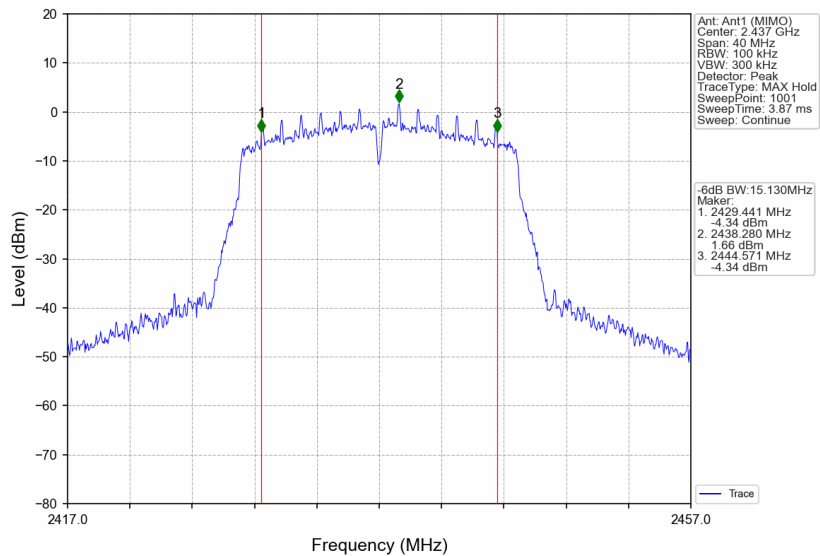
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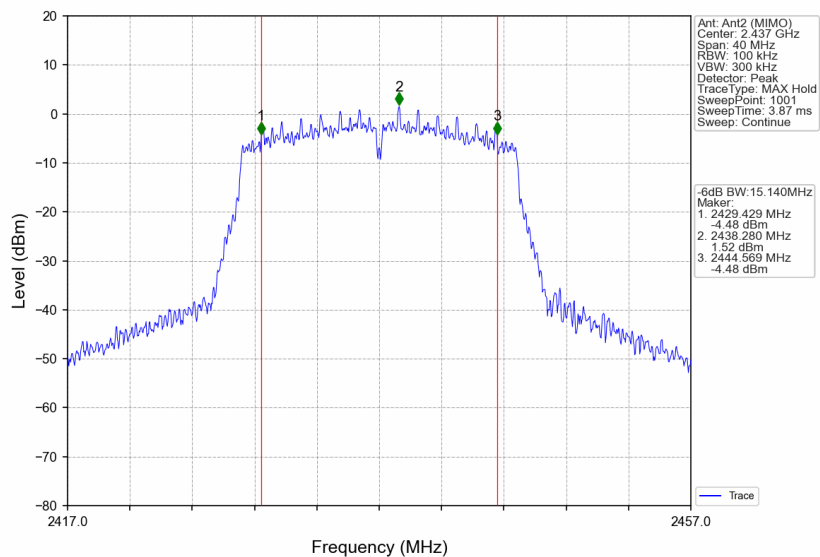
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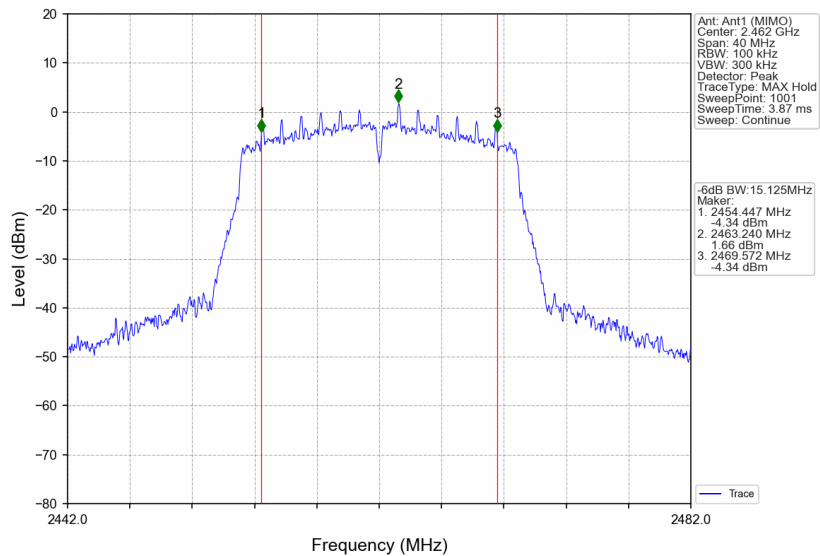
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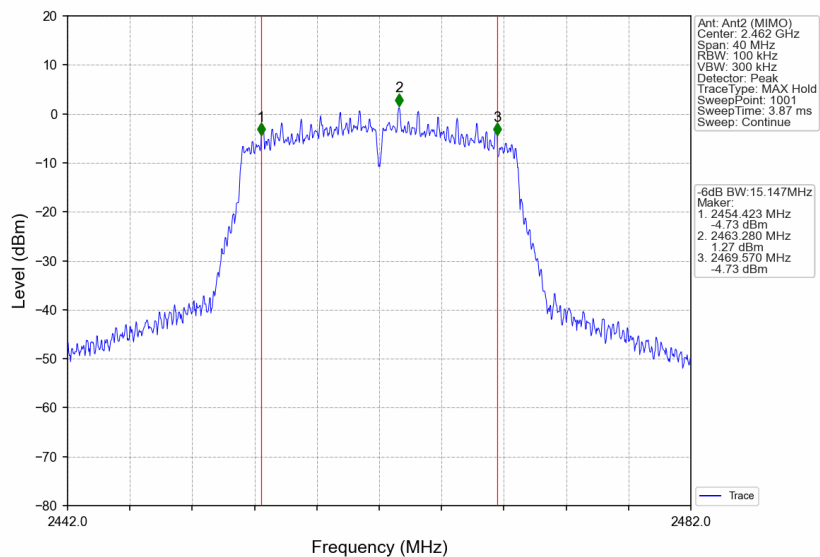
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	16.11	16.16	/	<=30	Pass
		2437	15.95	16.08	/	<=30	Pass
		2462	15.93	15.89	/	<=30	Pass
802.11g	SISO	2412	13.99	14.17	/	<=30	Pass
		2437	14.00	14.11	/	<=30	Pass
		2462	14.05	14.02	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.02	11.36	14.20	<=30	Pass
		2437	11.04	11.28	14.17	<=30	Pass
		2462	11.03	11.07	14.06	<=30	Pass

Note1: Antenna Gain: Ant1: 3.44dBi; Ant2: 2.50dBi;

Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



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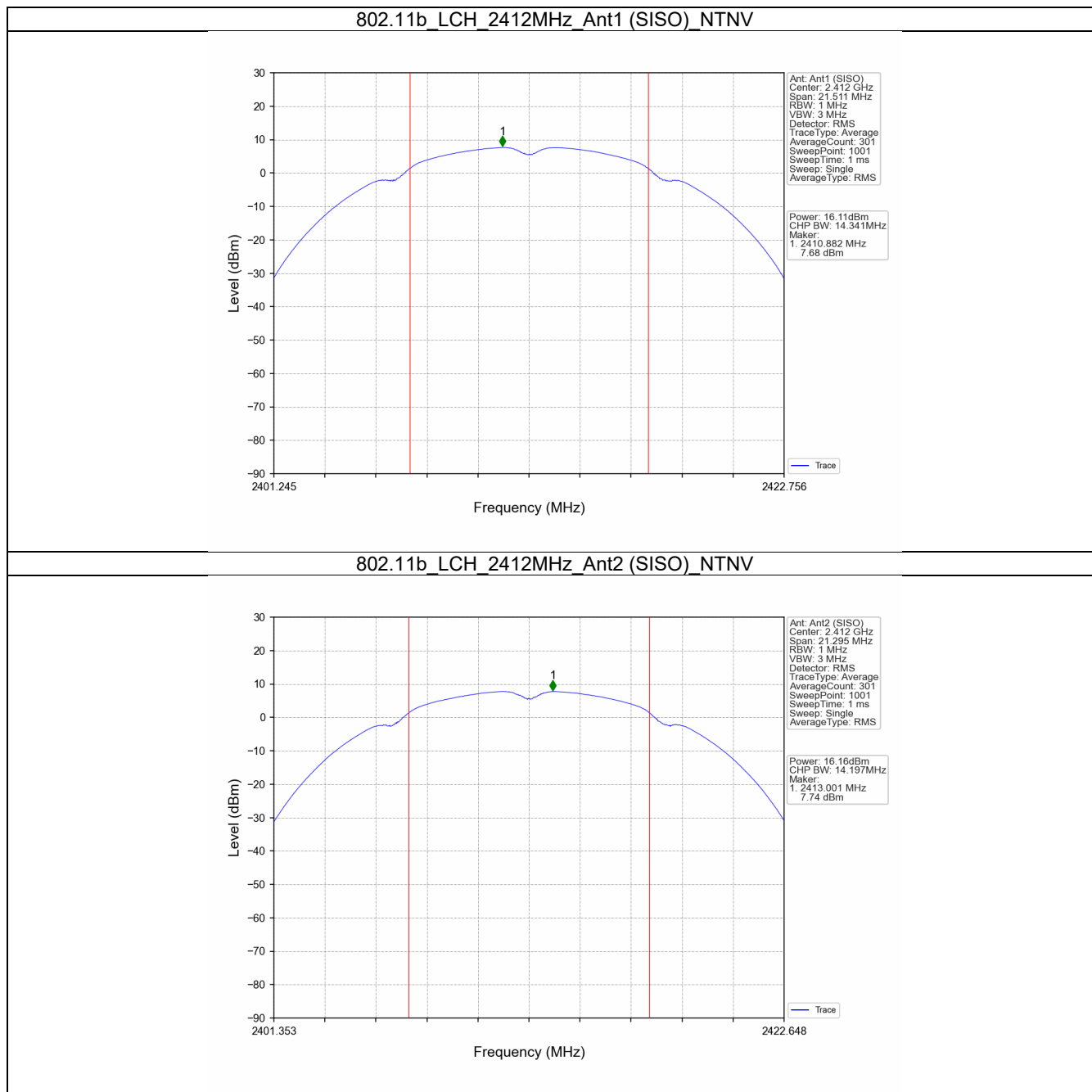
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3.1.2 Test Graph



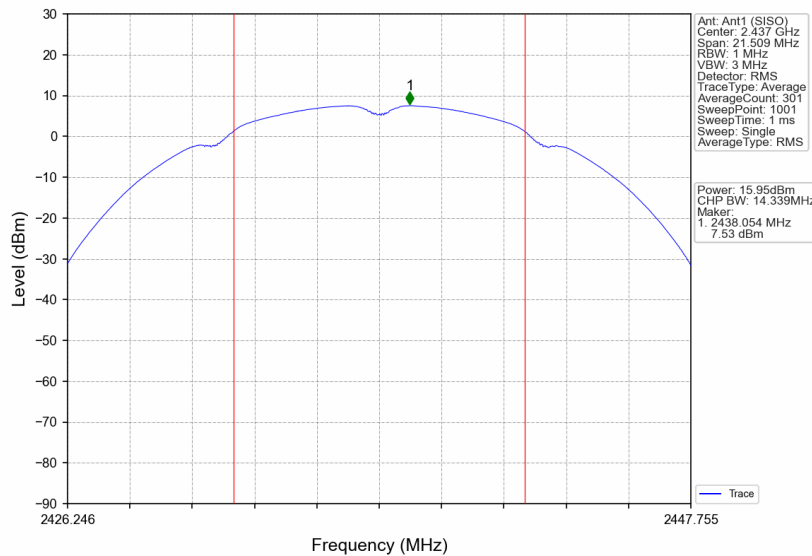
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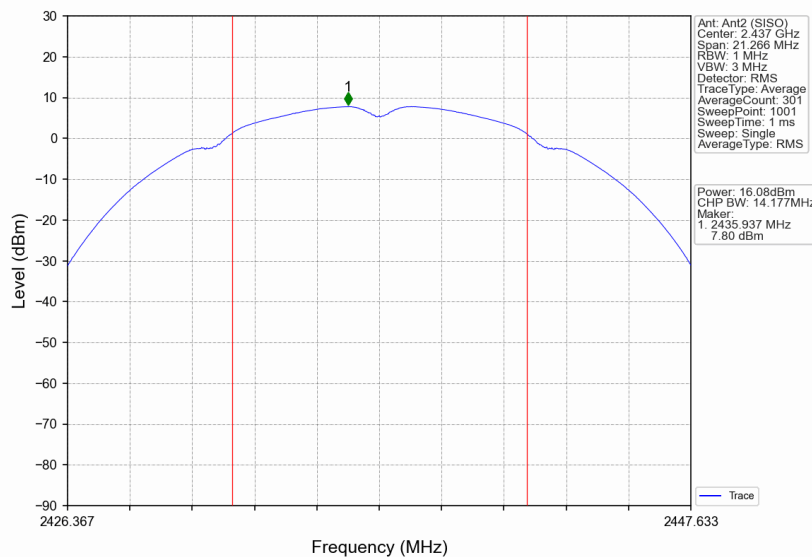
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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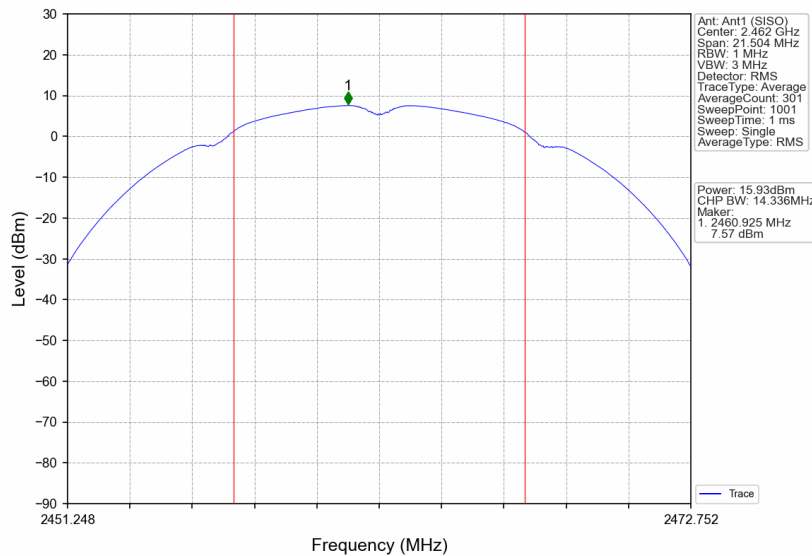
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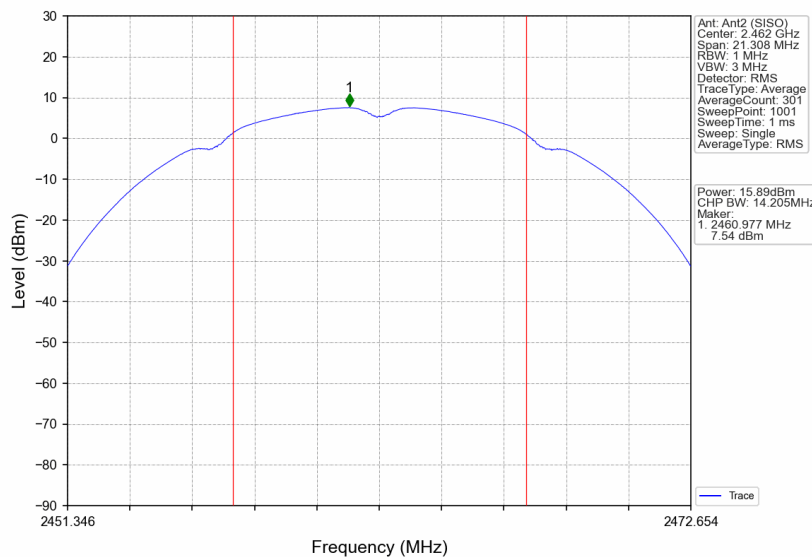
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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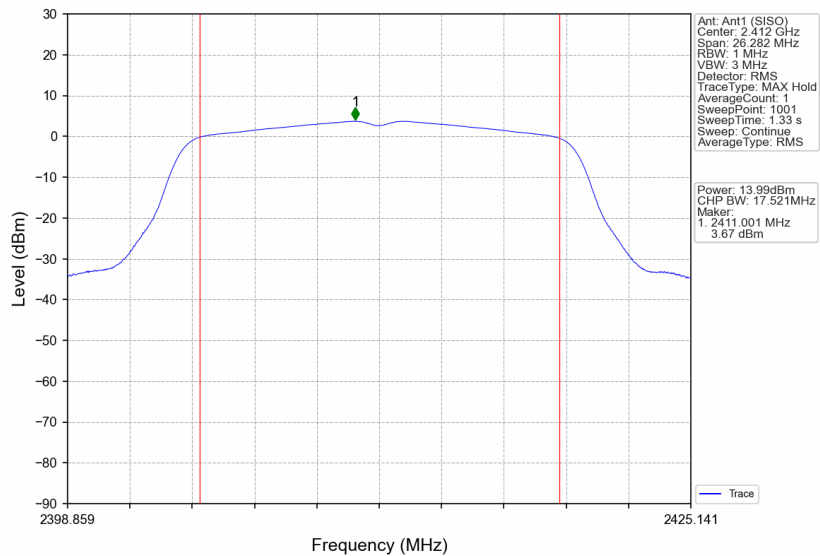
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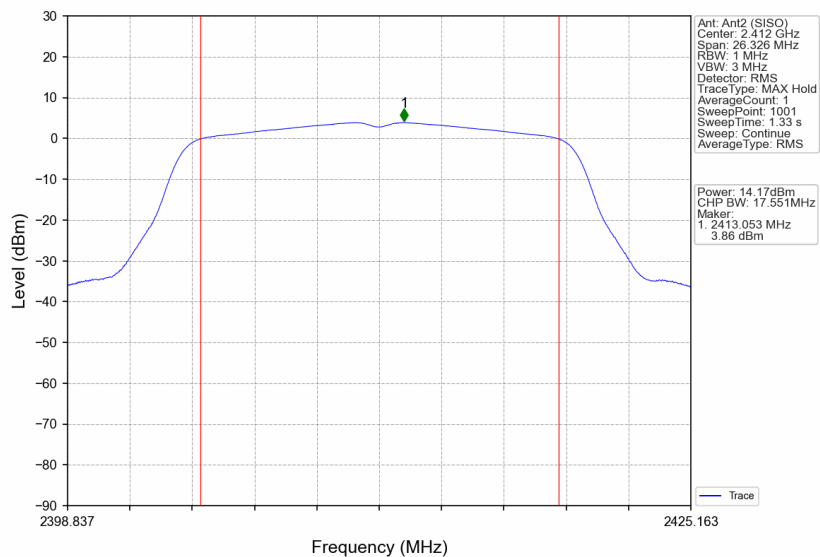
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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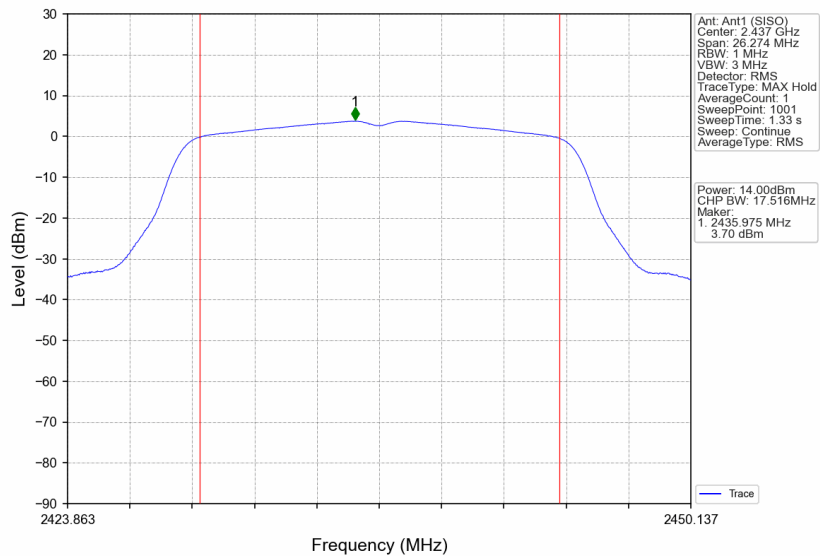
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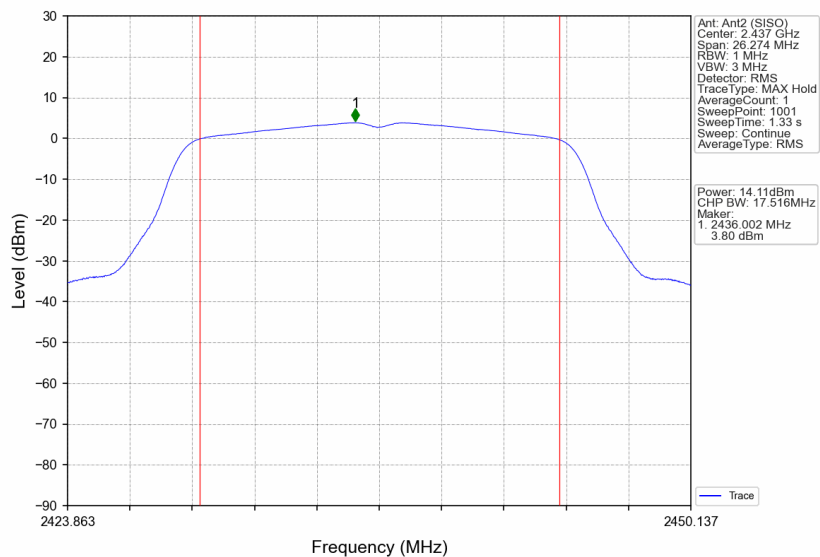
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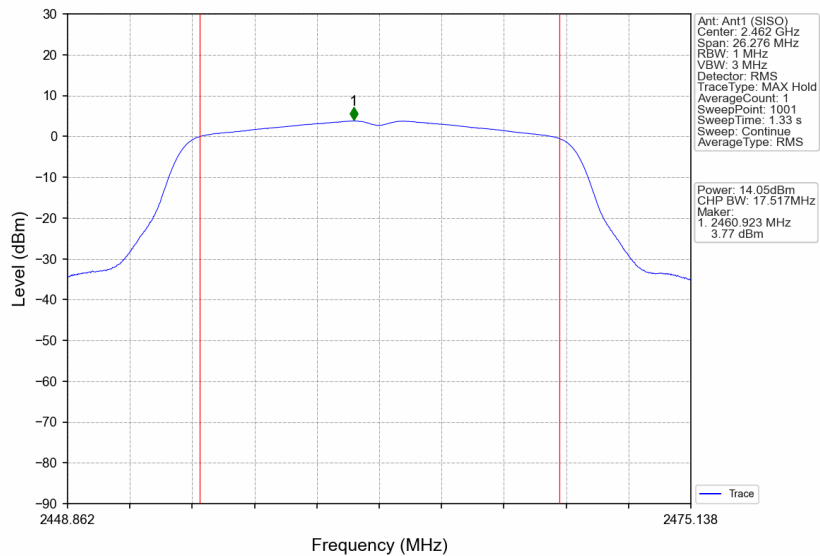
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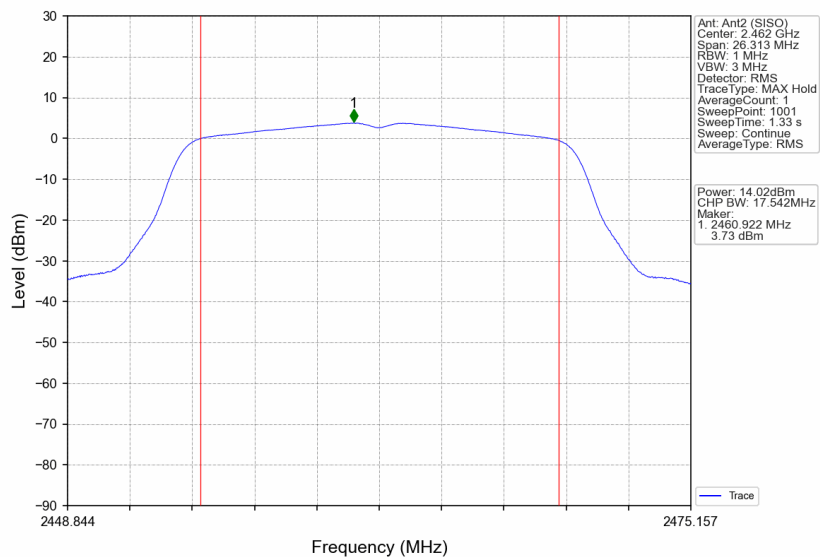
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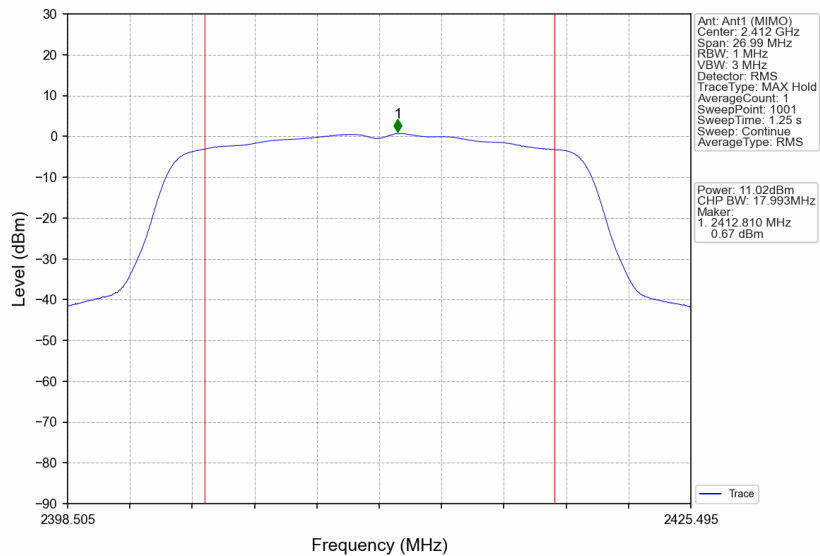
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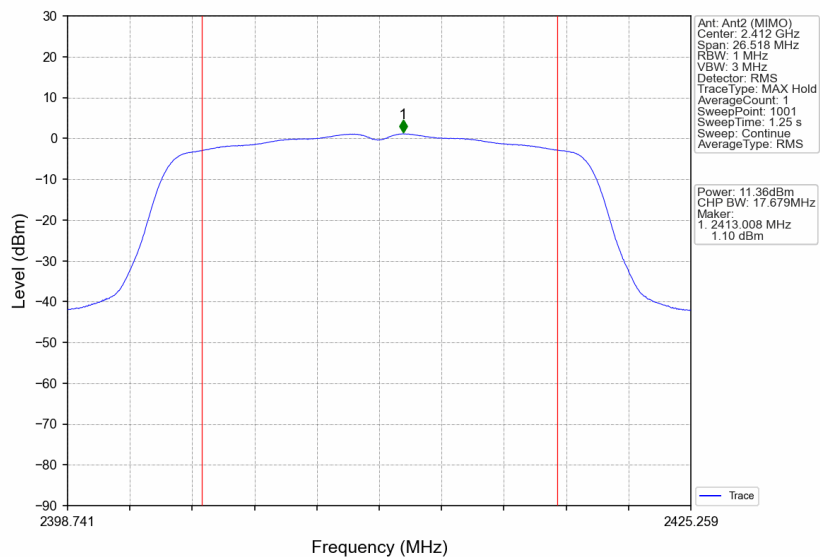
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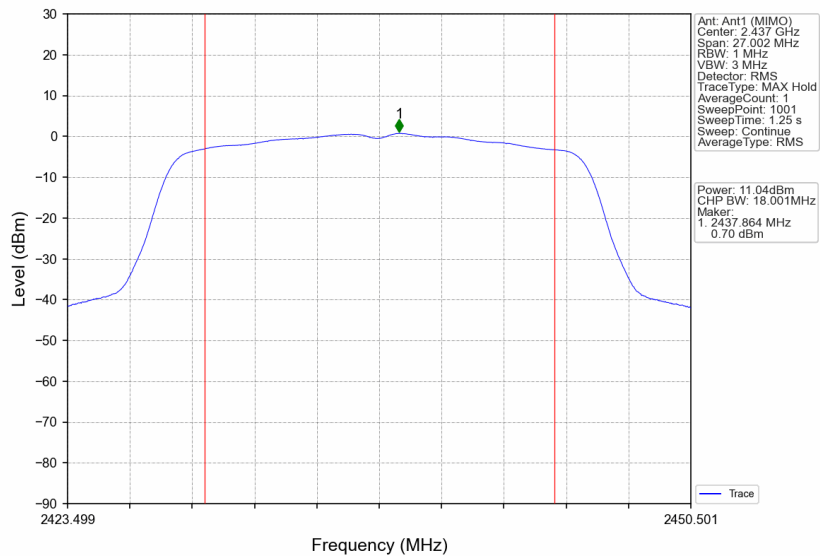
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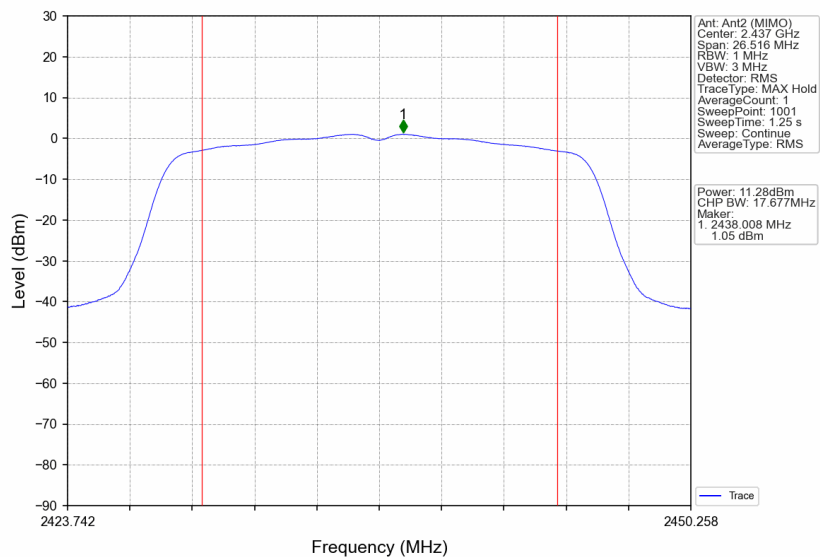
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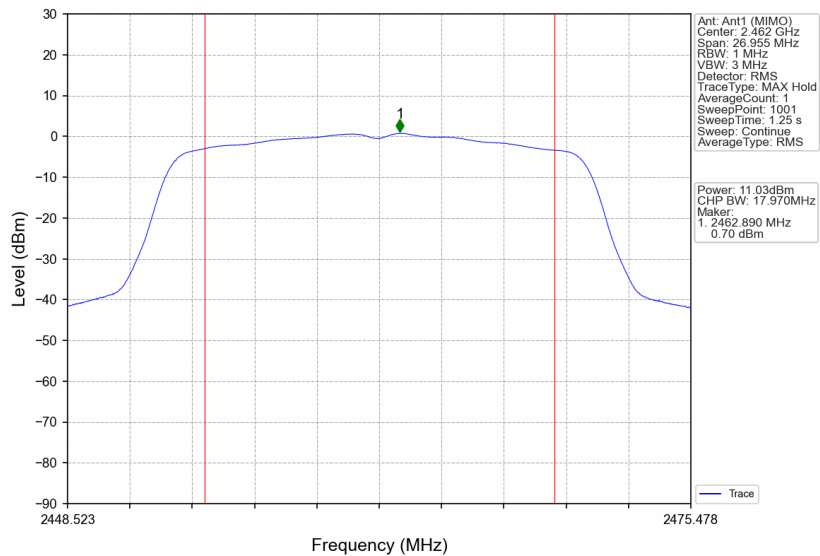
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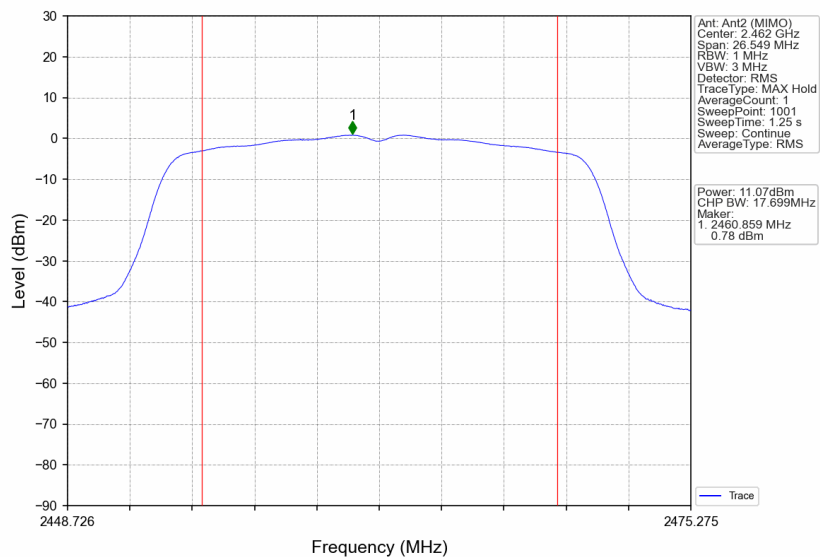
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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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	ANT2	MIMO	Limit	
802.11b	SISO	2412	-7.58	-7.59	/	<=8	Pass
		2437	-8.56	-8.30	/	<=8	Pass
		2462	-7.57	-6.53	/	<=8	Pass
802.11g	SISO	2412	-11.95	-11.46	/	<=8	Pass
		2437	-11.20	-12.23	/	<=8	Pass
		2462	-11.88	-12.33	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-11.77	-14.42	-10.20	<=8	Pass
		2437	-15.10	-14.67	-12.46	<=8	Pass
		2462	-14.75	-14.70	-11.88	<=8	Pass

Note1: Antenna Gain: Ant1: 3.44dBi; Ant2: 2.50dBi;

Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



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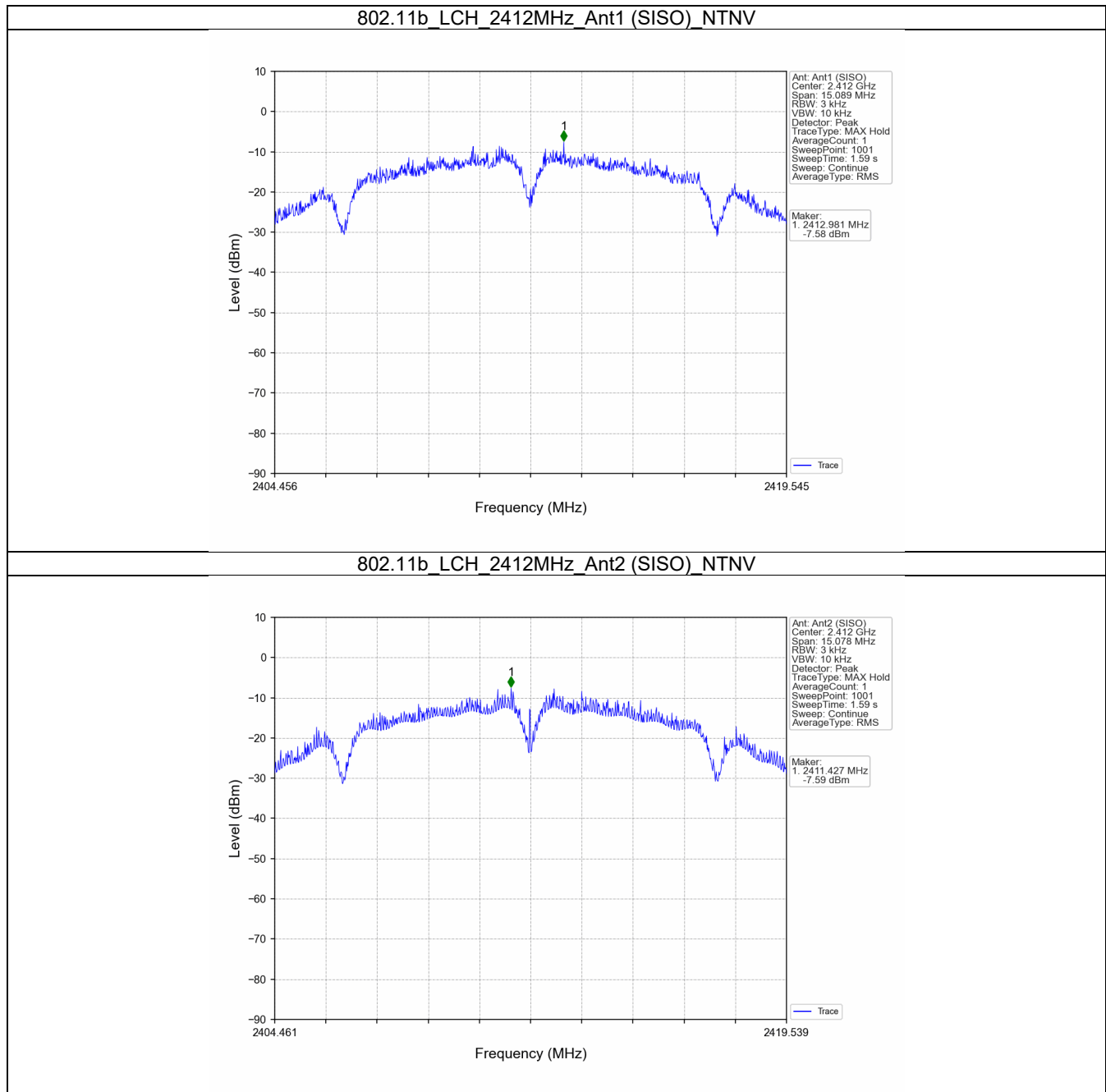
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4.1.2 Test Graph



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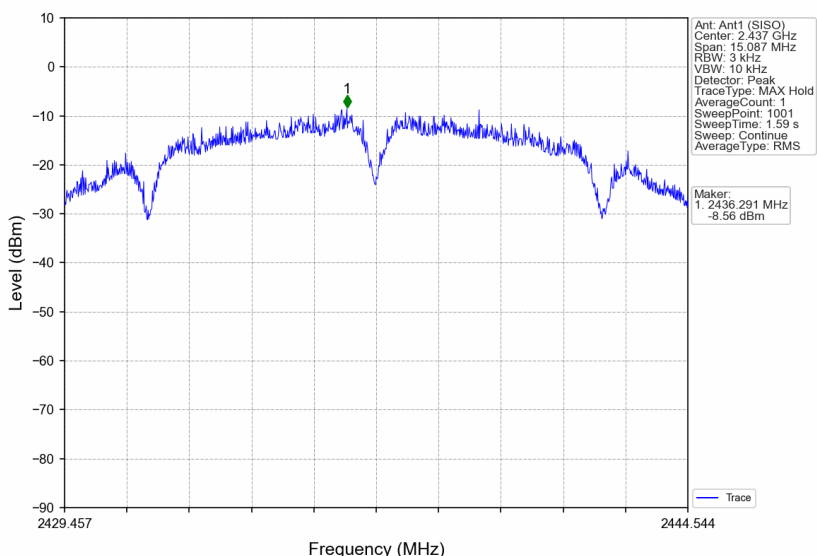
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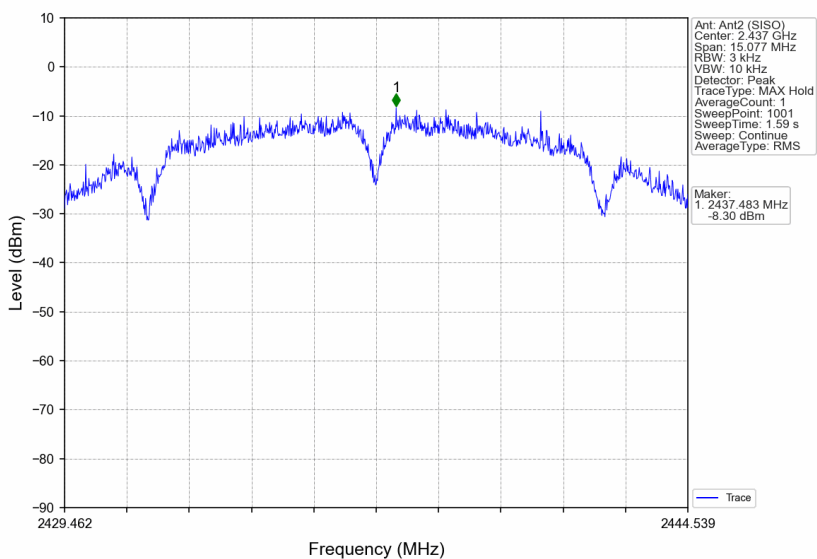
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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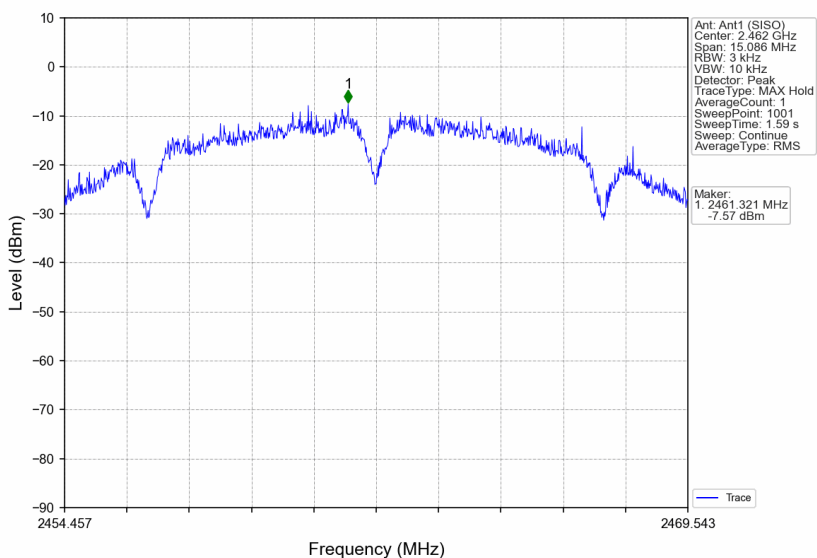
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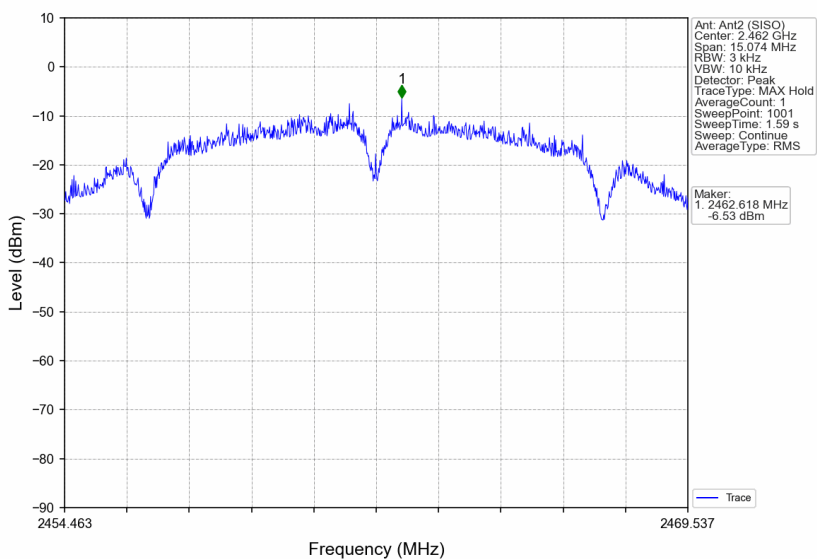
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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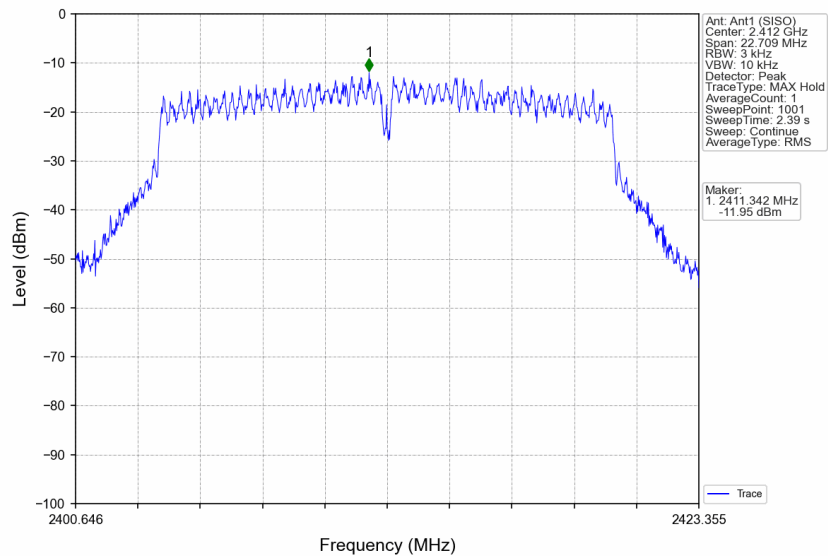
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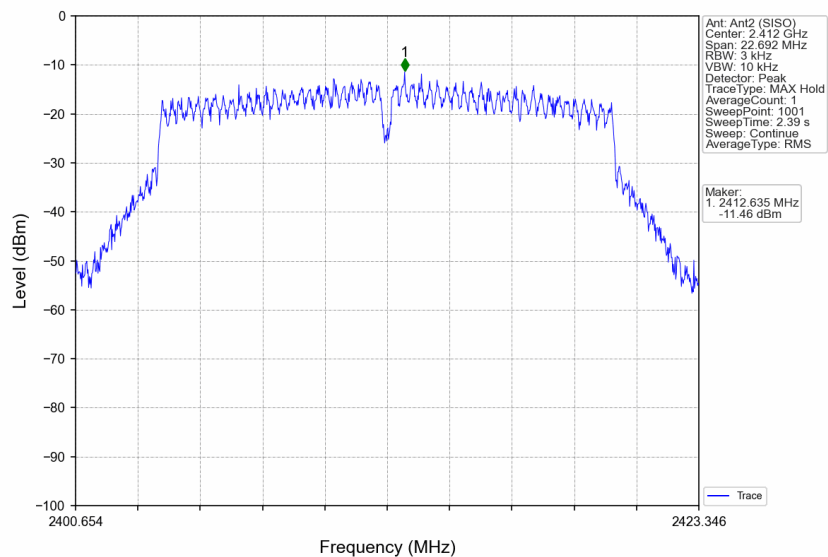
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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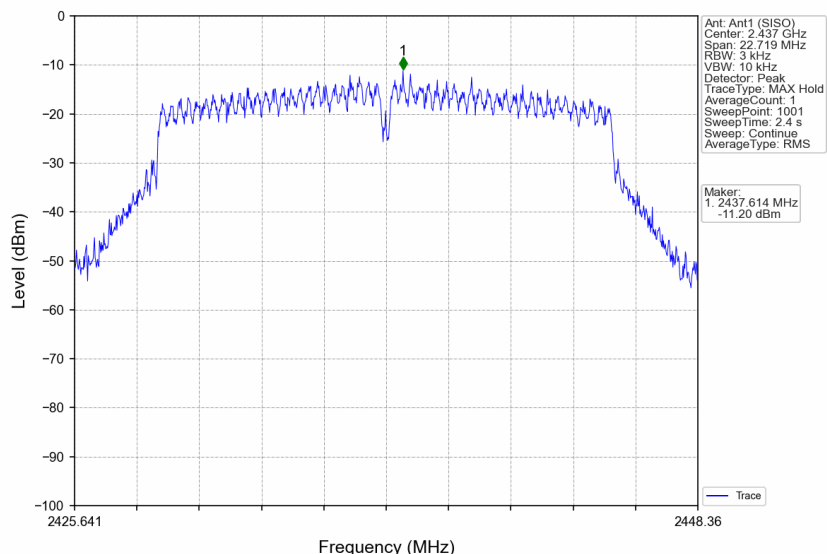
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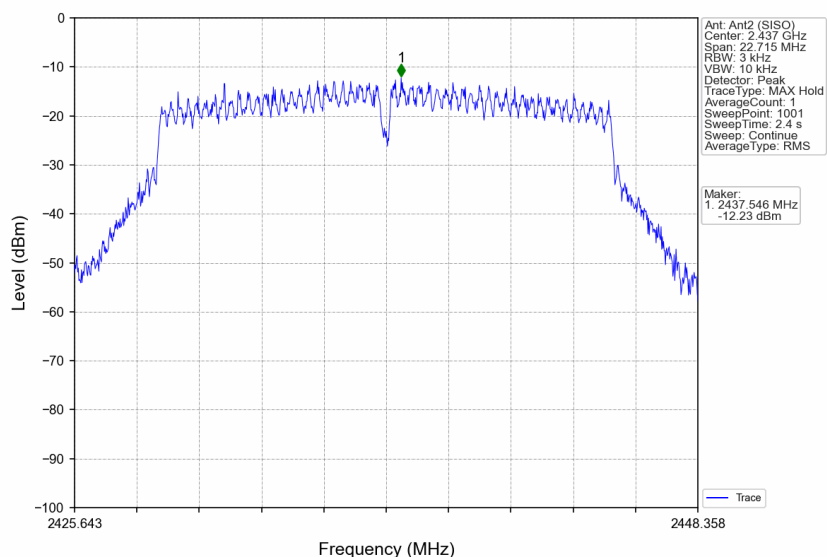
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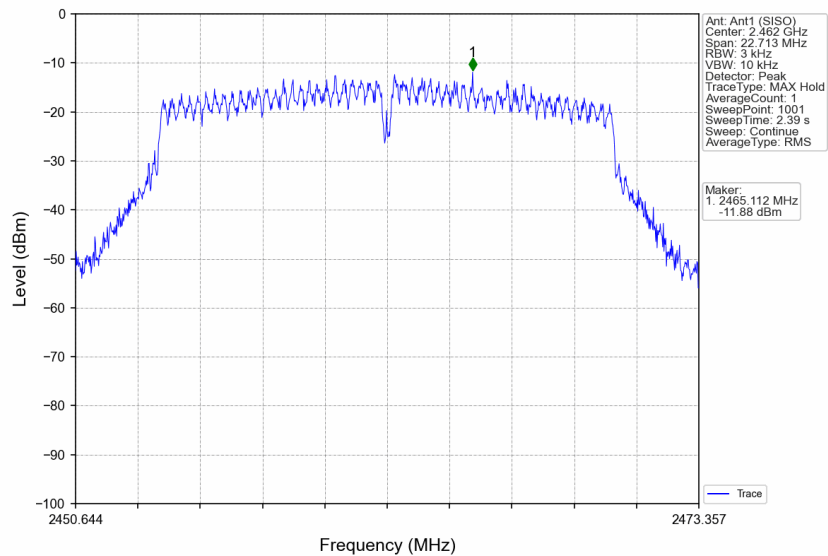
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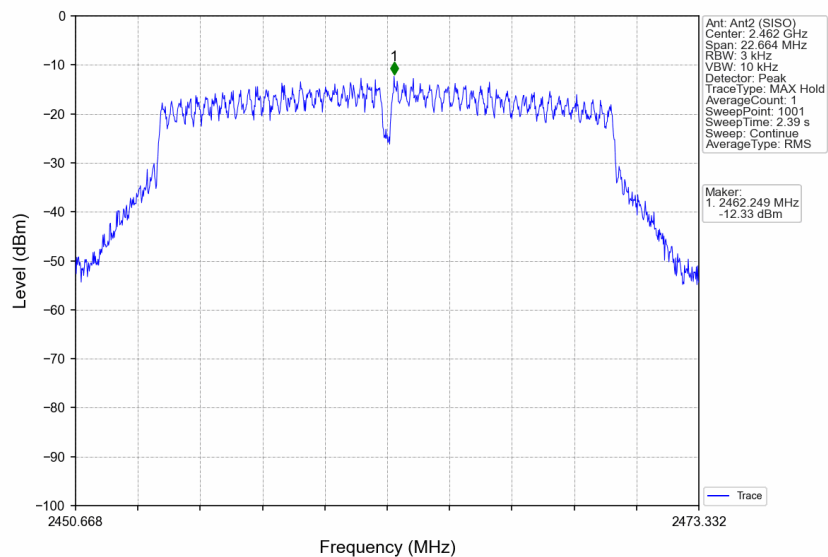
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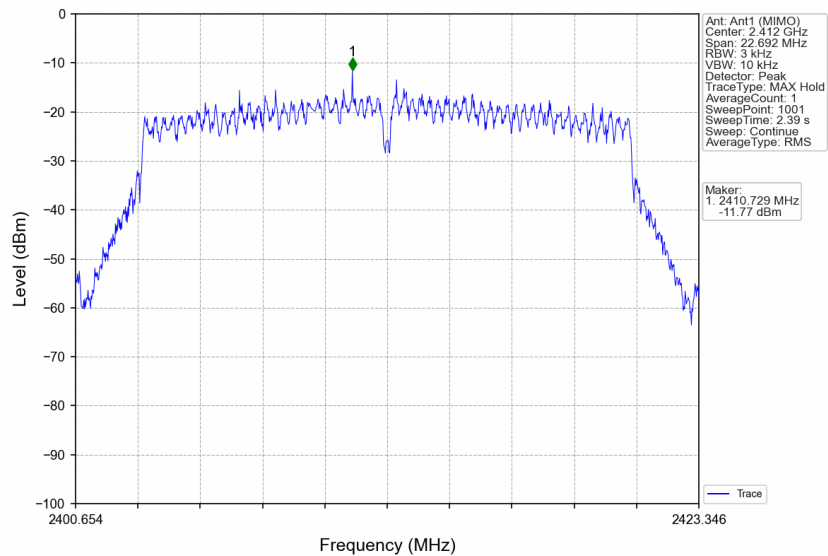
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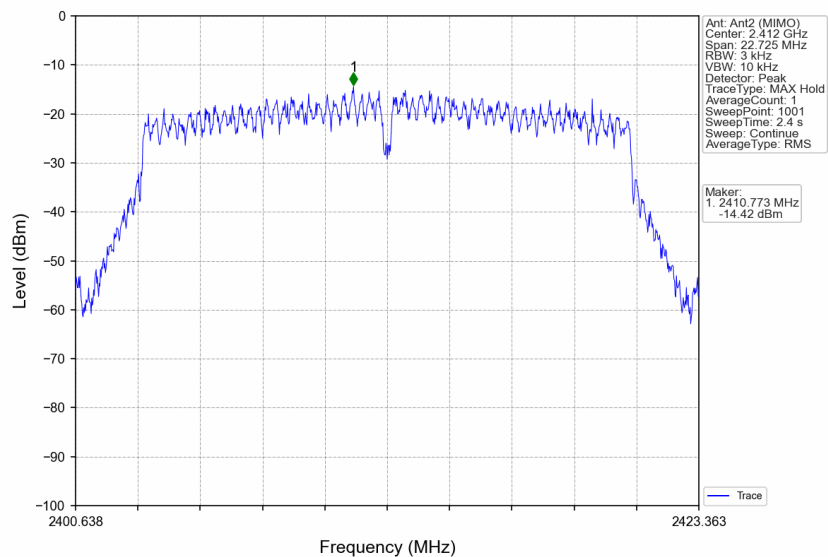
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO) NTNV



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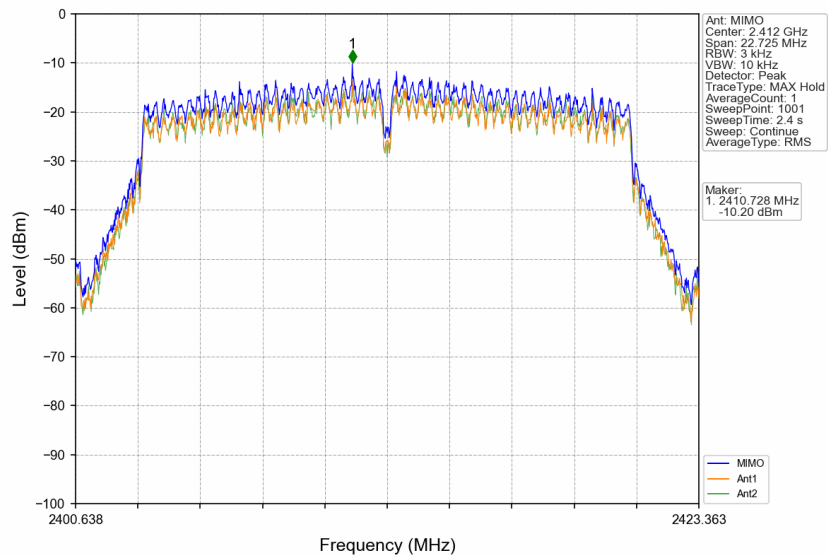
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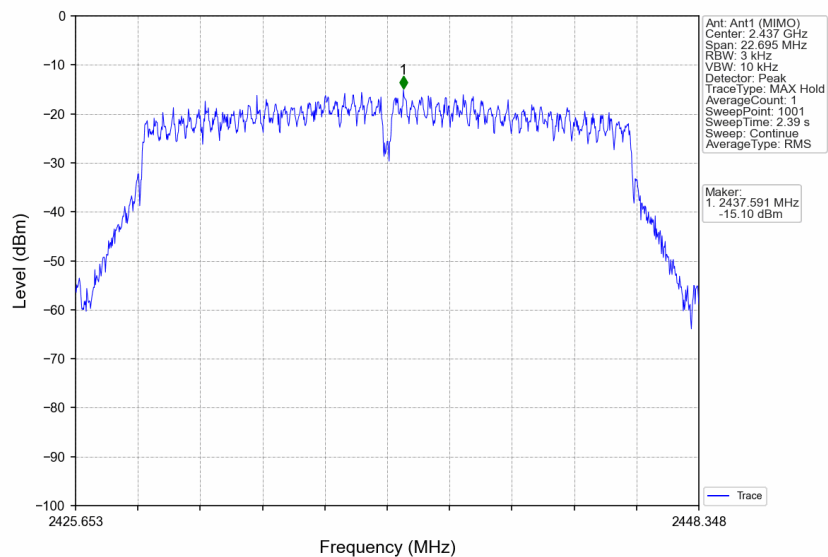
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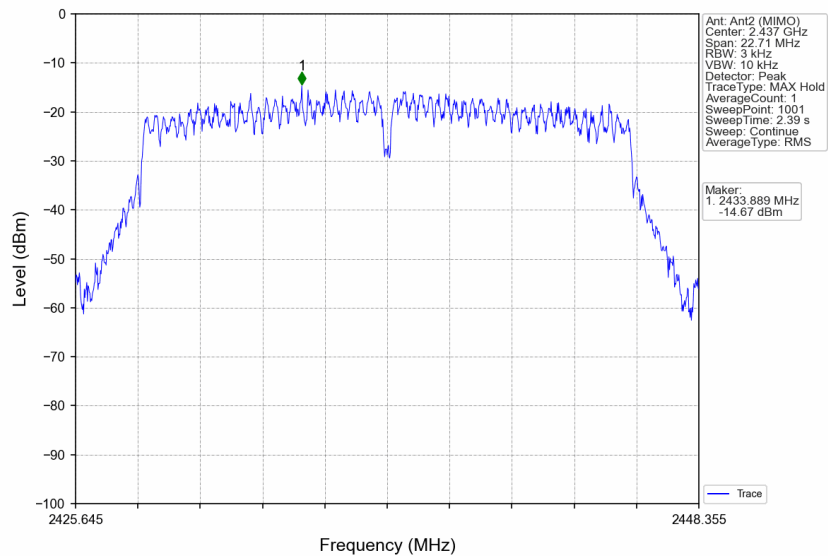
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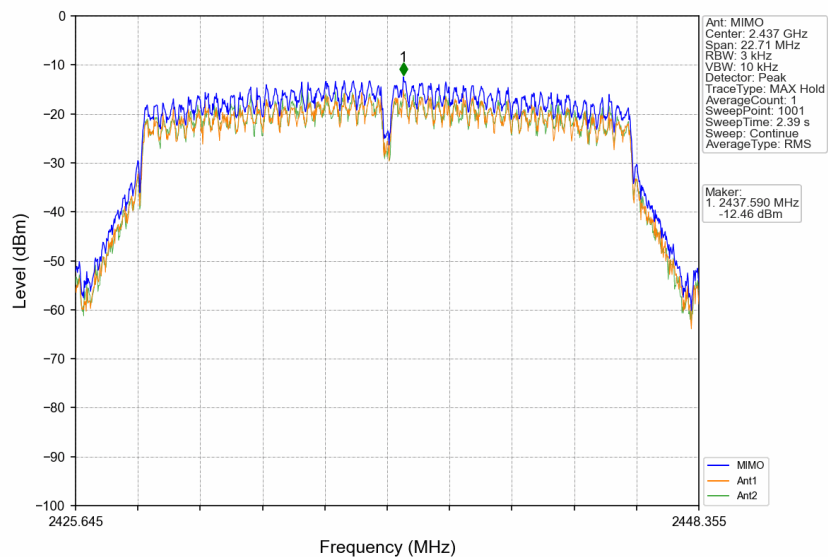
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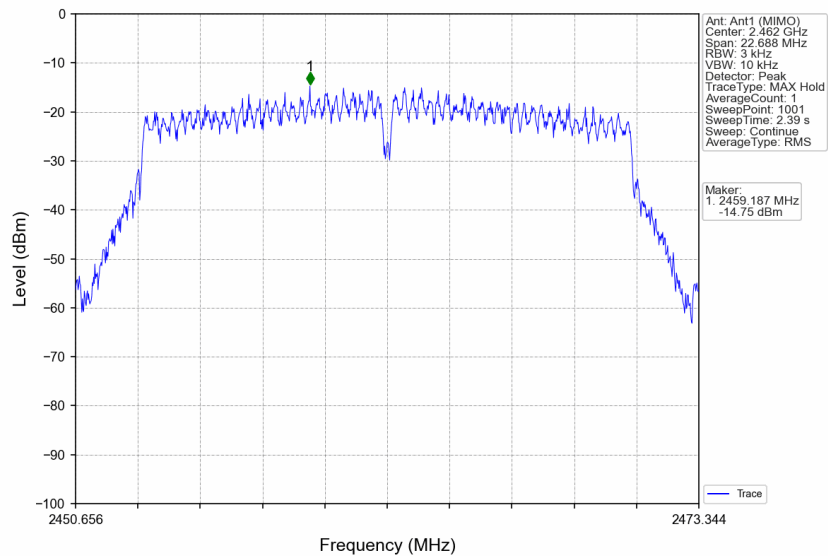
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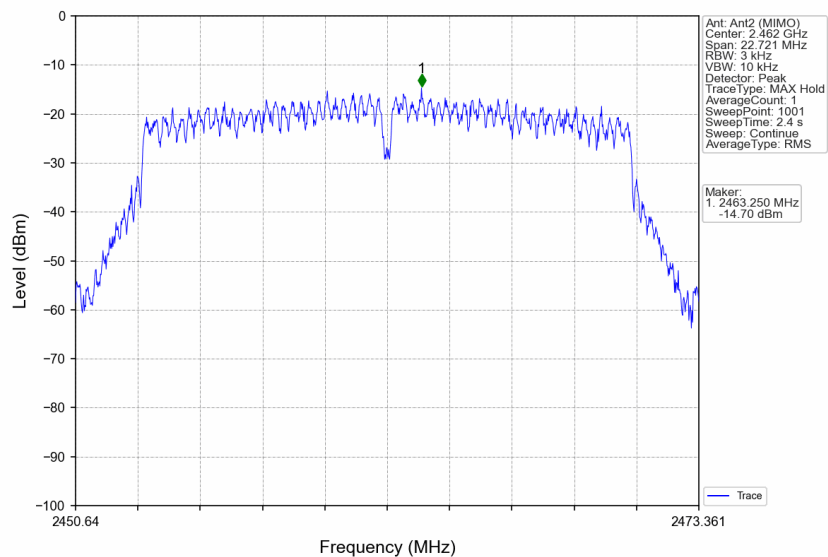
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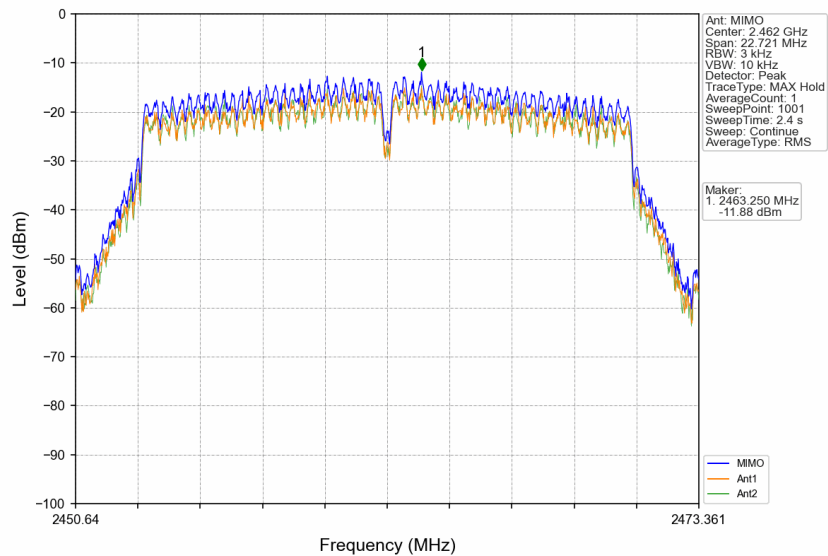
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EMC Laboratory

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)
802.11b	SISO	2412	1	7.61
			2	7.70
		2437	1	7.49
			2	7.51
		2462	1	7.41
			2	7.48
802.11g	SISO	2412	1	4.05
			2	3.72
		2437	1	4.03
			2	4.20
		2462	1	3.81
			2	4.08
802.11n (HT20)	MIMO	2412	1	1.52
			2	1.31
		2437	1	1.51
			2	1.37
		2462	1	1.49
			2	0.48

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.



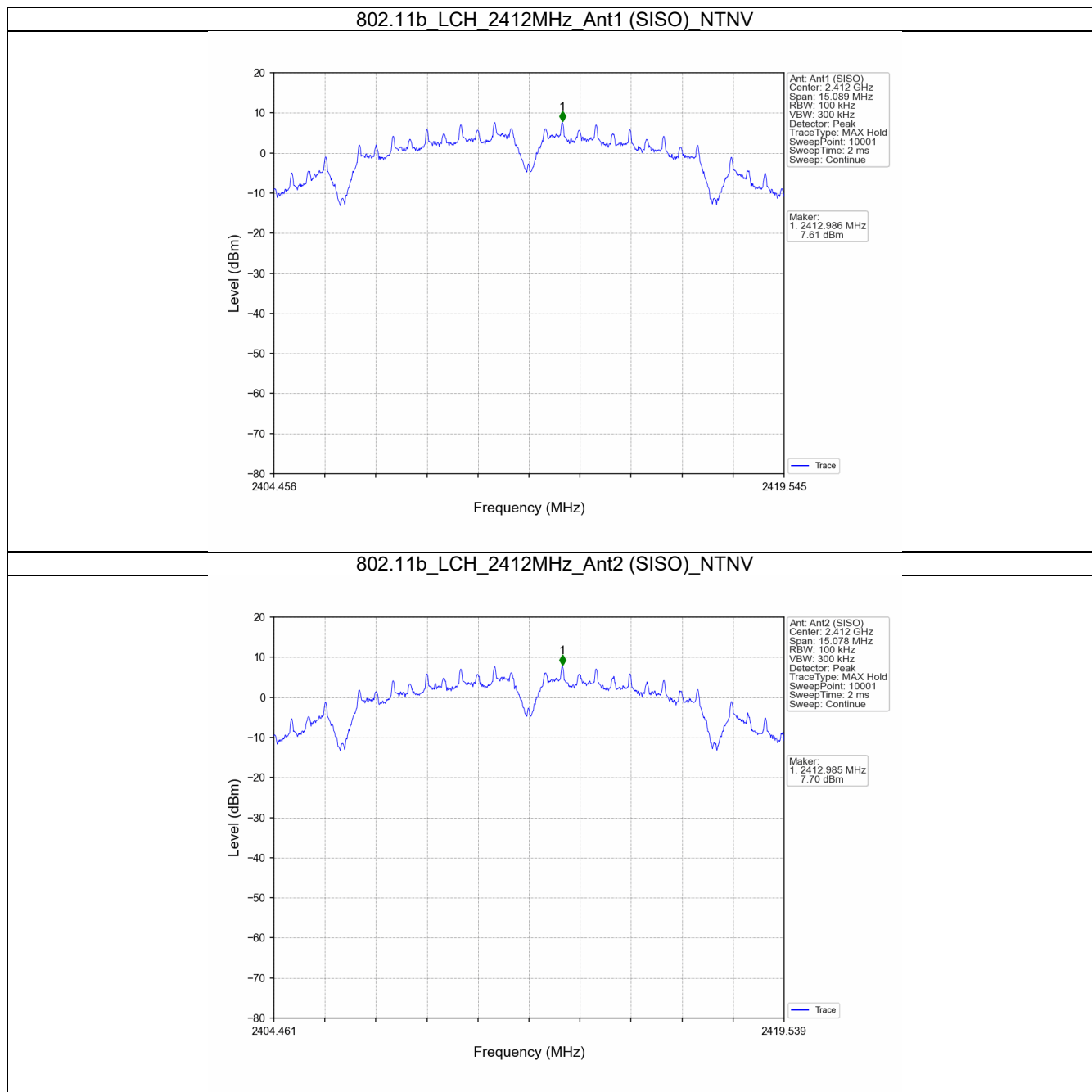
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5.1.2 Test Graph



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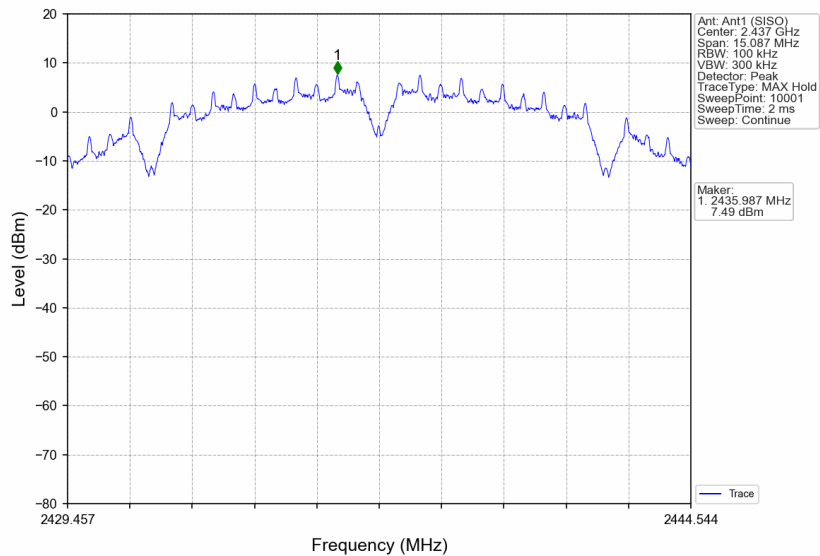
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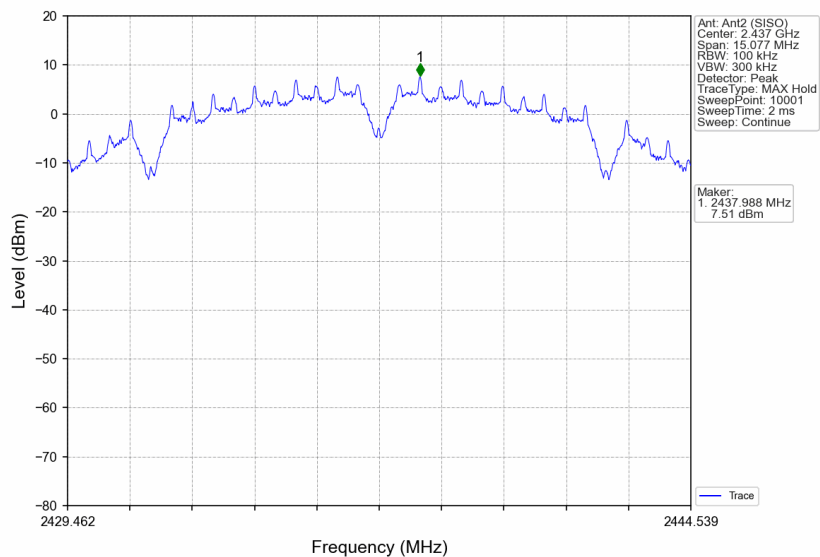
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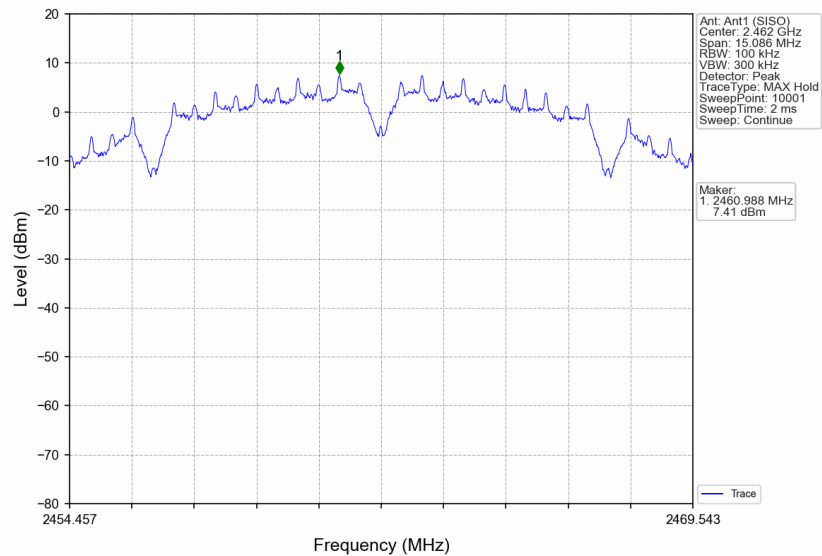
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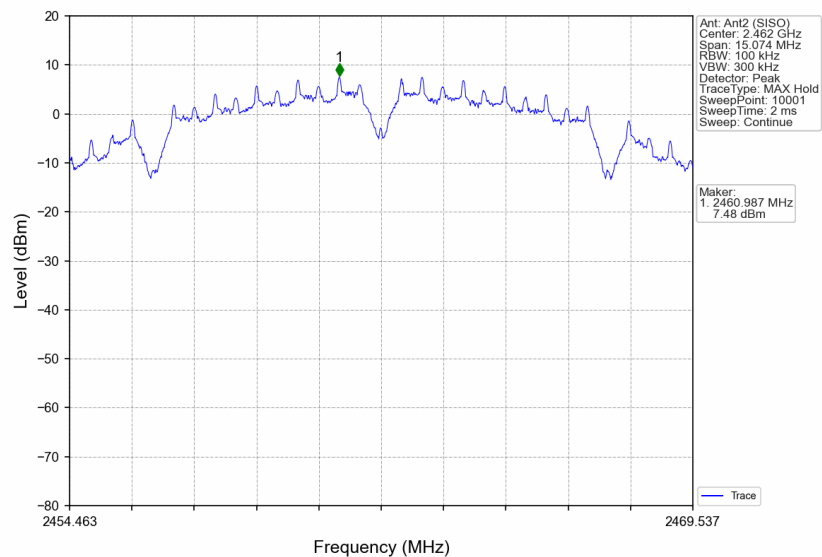
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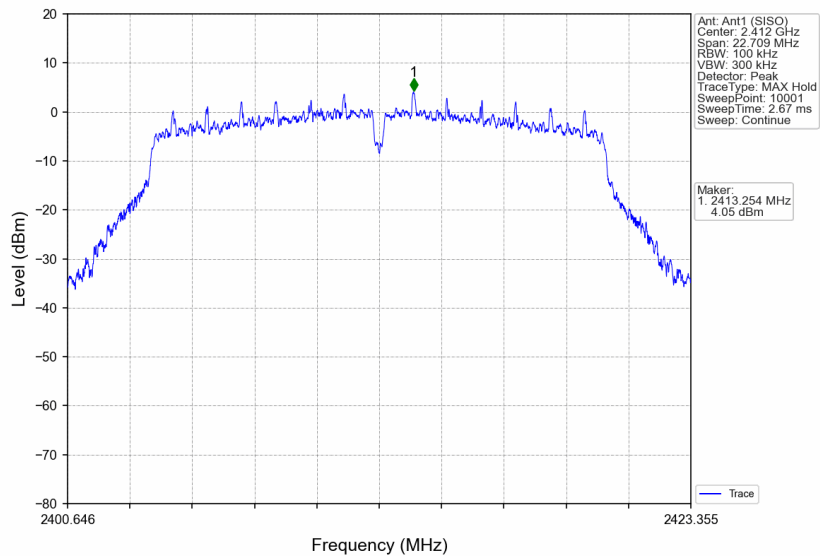
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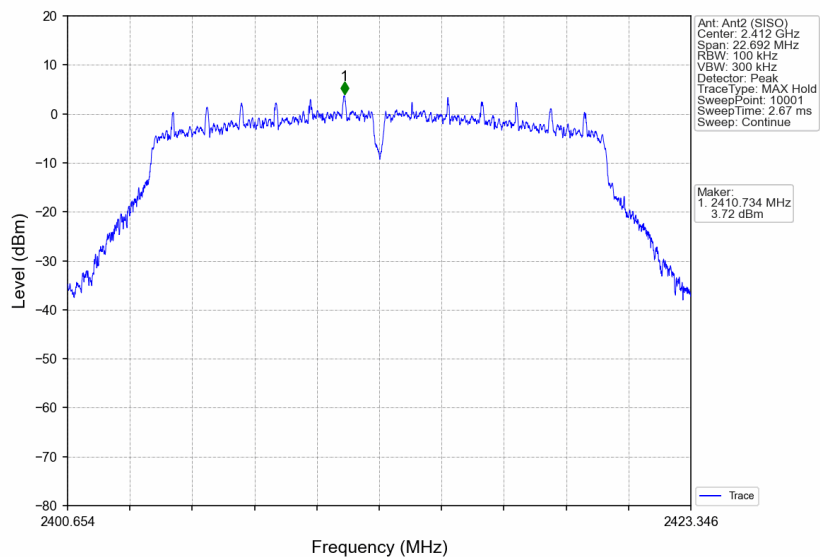
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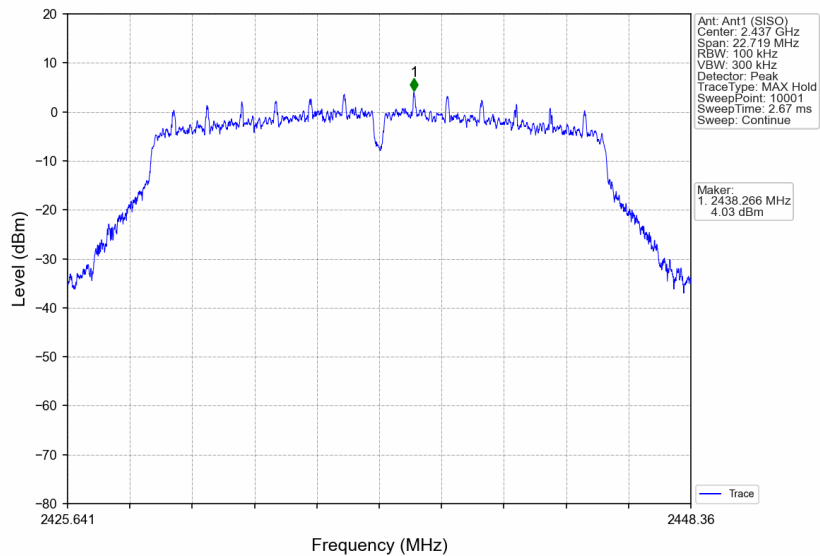
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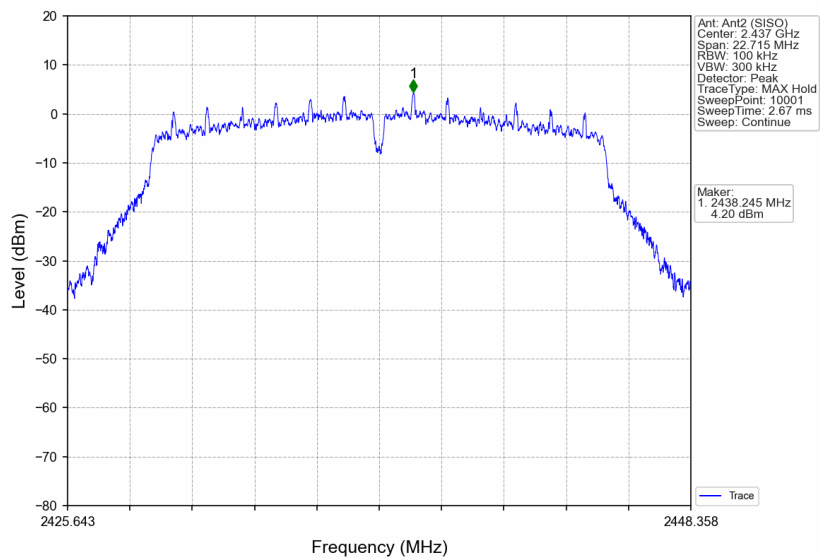
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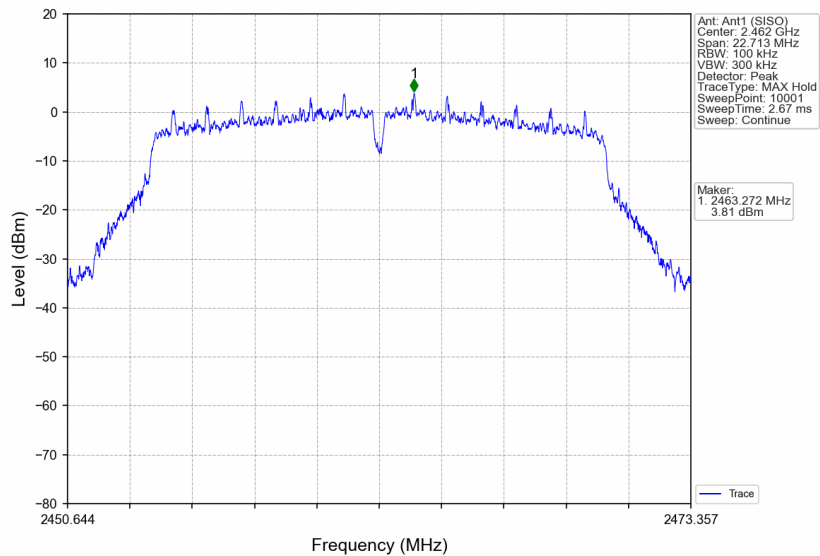
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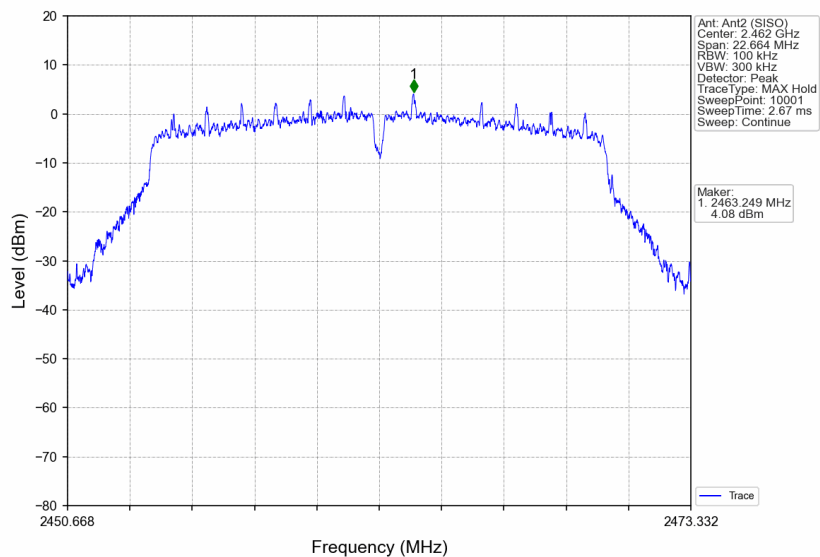
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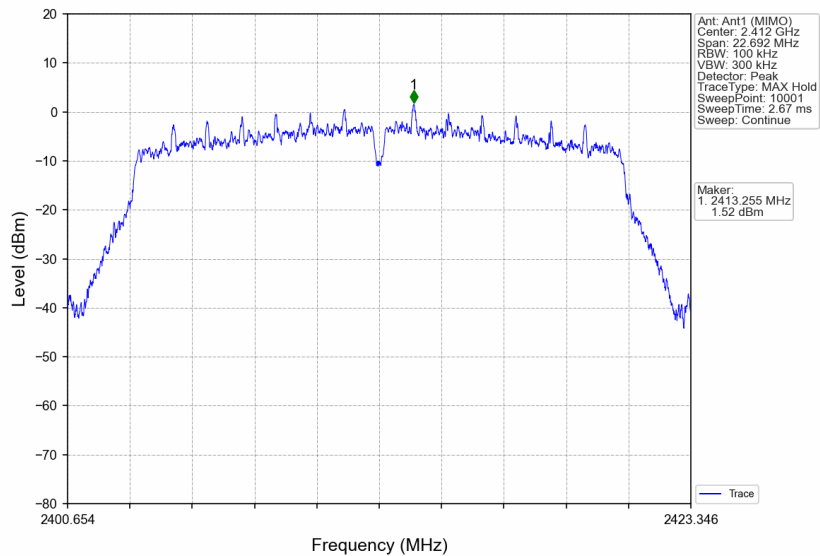
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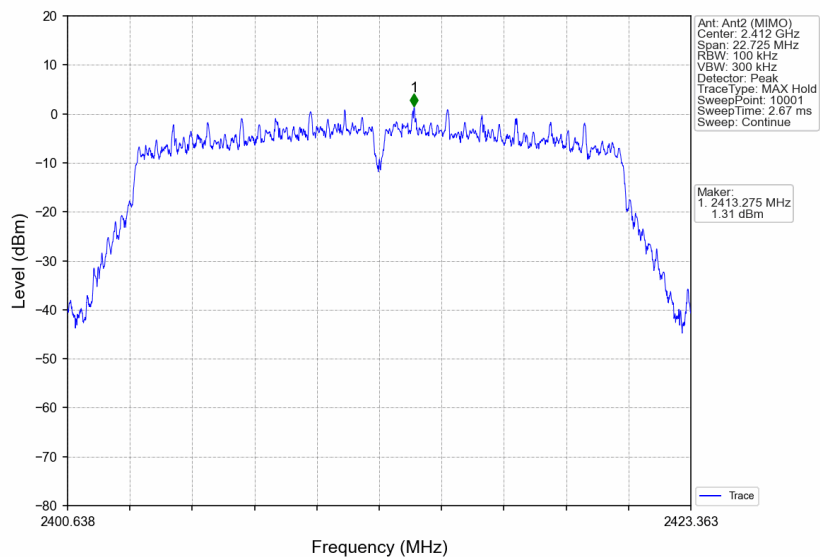
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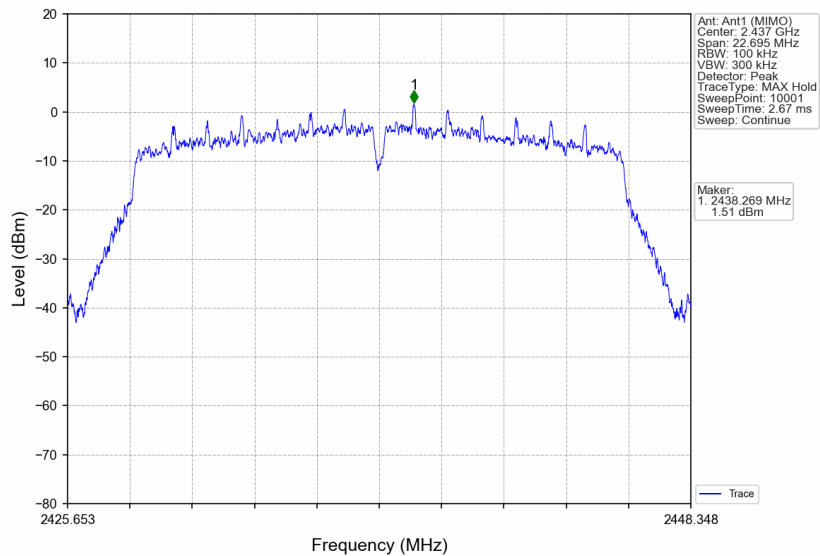
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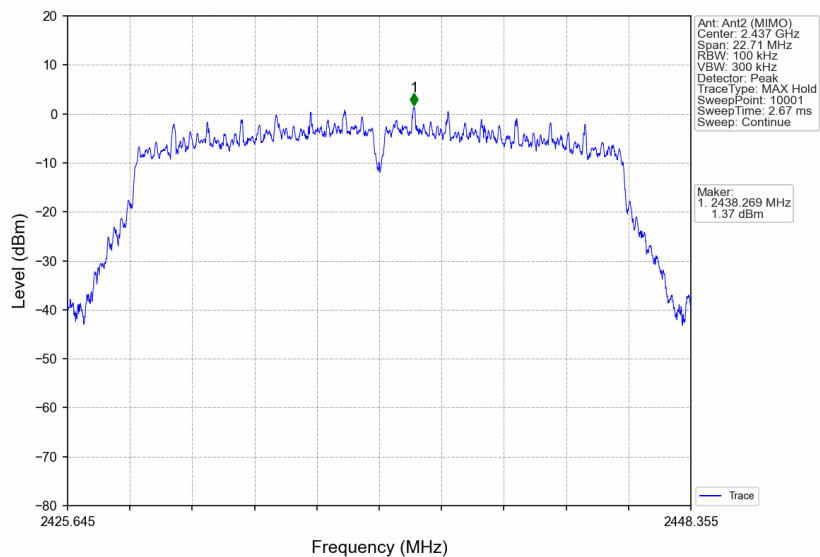
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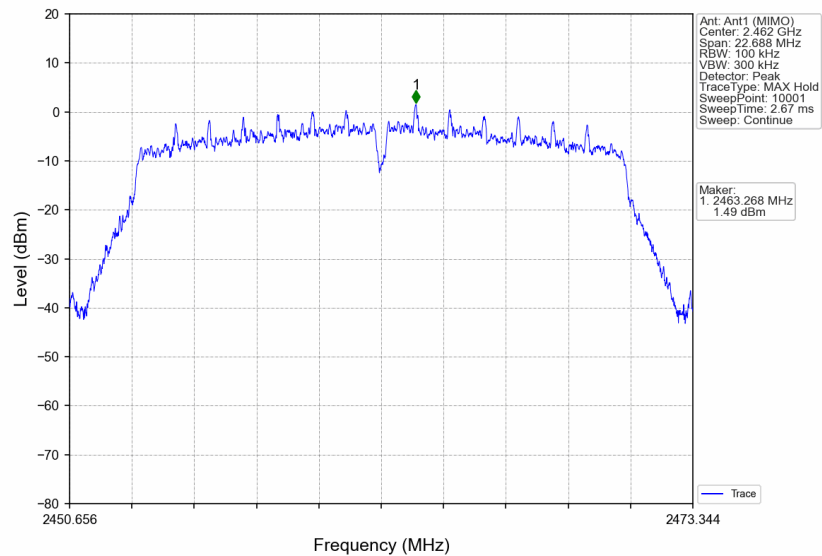
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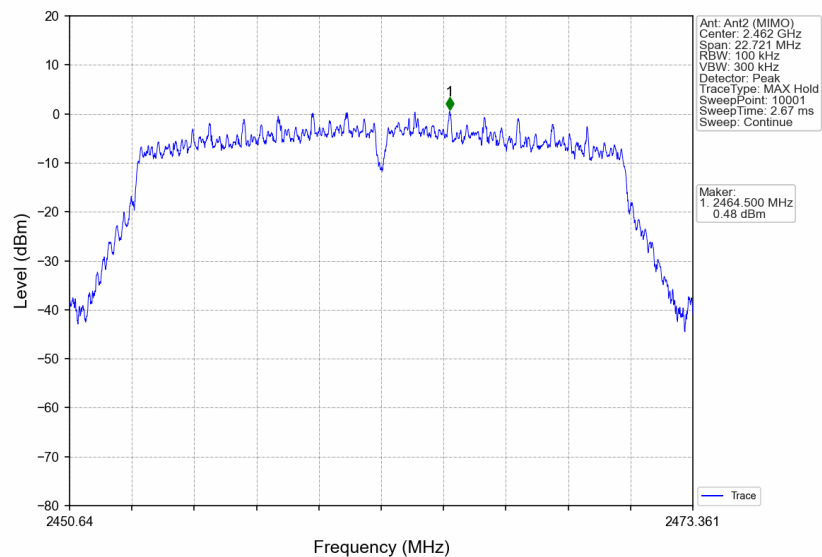
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.61	-22.39	Pass
			2	7.70	-22.30	Pass
		2437	1	7.61	-22.39	Pass
			2	7.70	-22.30	Pass
		2462	1	7.61	-22.39	Pass
			2	7.70	-22.30	Pass
802.11g	SISO	2412	1	4.05	-25.95	Pass
			2	4.20	-25.80	Pass
		2437	1	4.05	-25.95	Pass
			2	4.20	-25.80	Pass
		2462	1	4.05	-25.95	Pass
			2	4.20	-25.80	Pass
802.11n (HT20)	MIMO	2412	1	1.52	-28.48	Pass
			2	1.37	-28.63	Pass
		2437	1	1.52	-28.48	Pass
			2	1.37	-28.63	Pass
		2462	1	1.52	-28.48	Pass
			2	1.37	-28.63	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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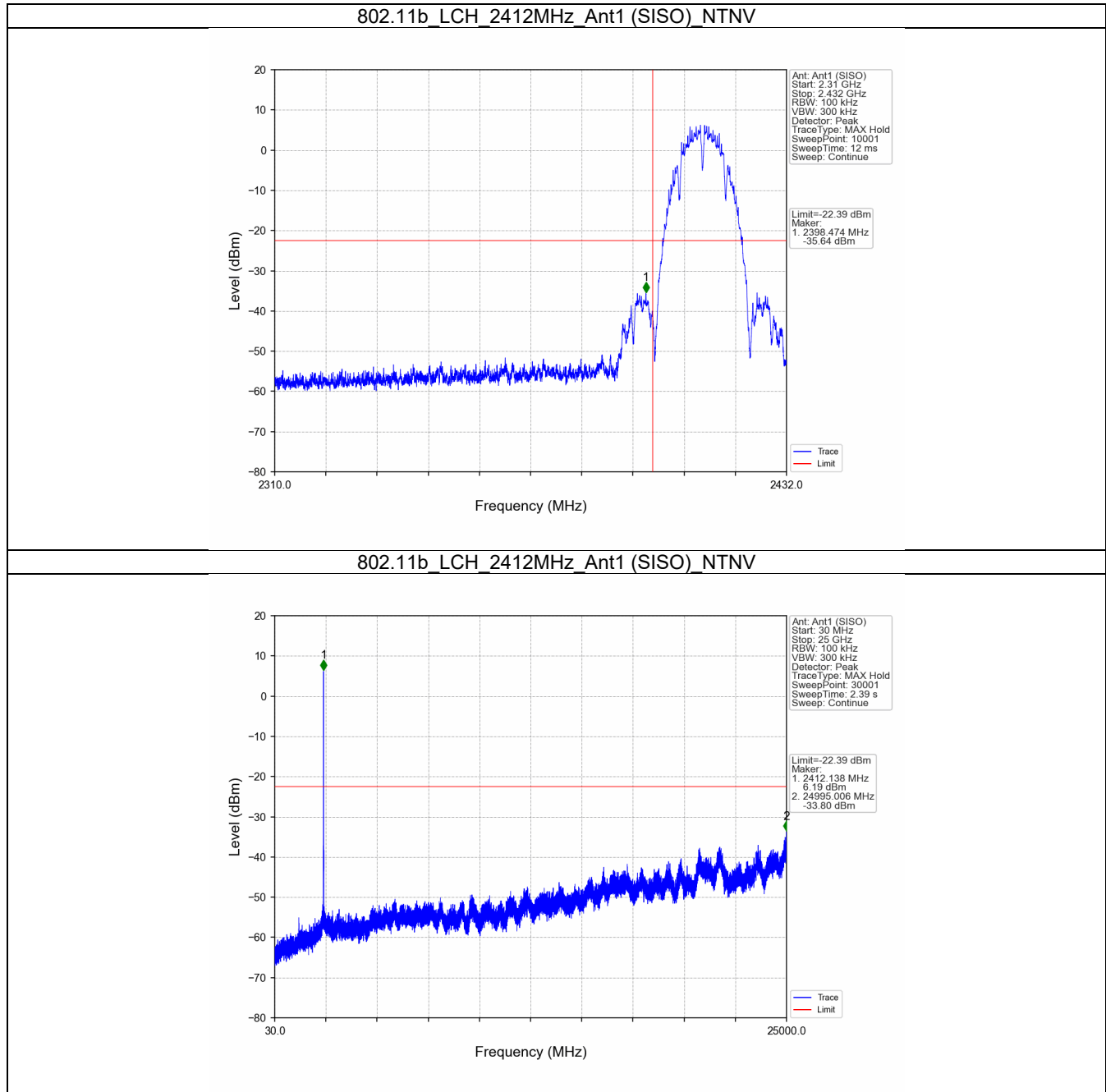
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5.2.2 Test Graph



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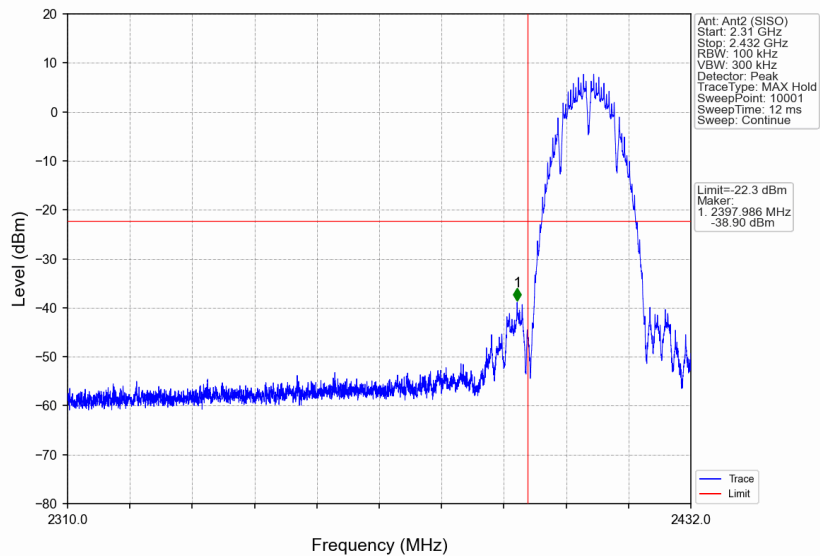
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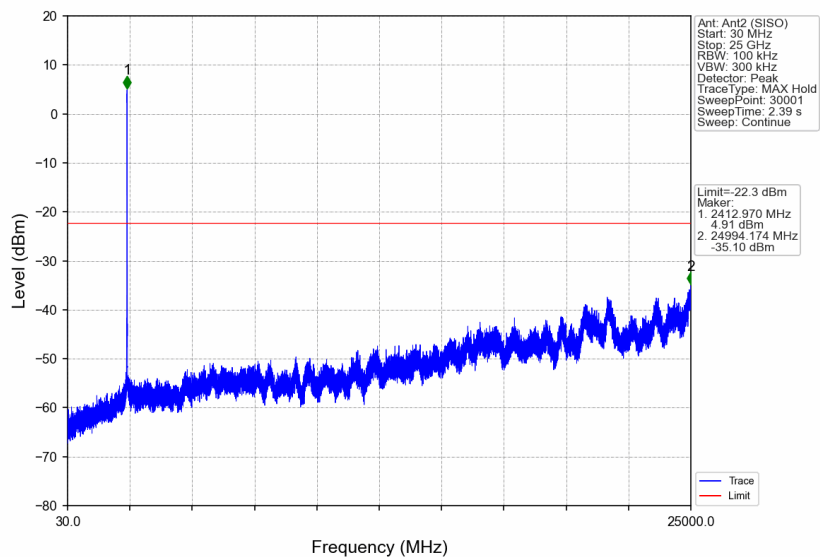
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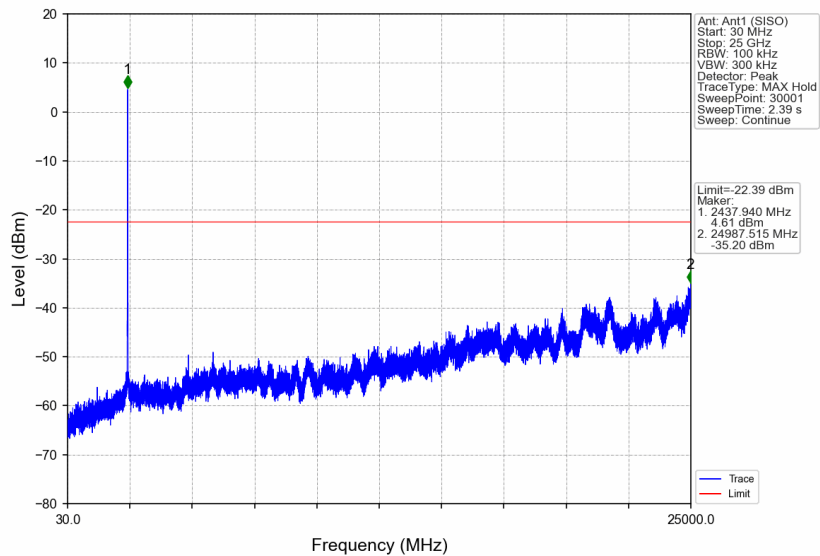
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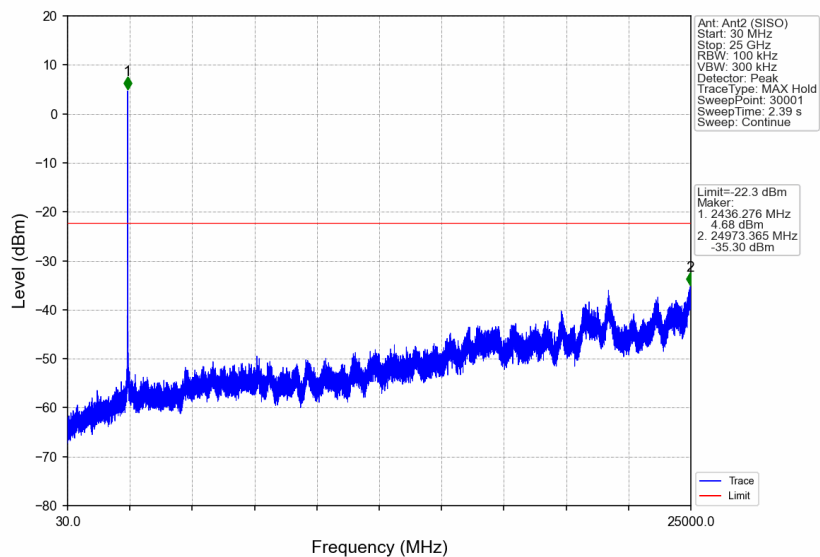
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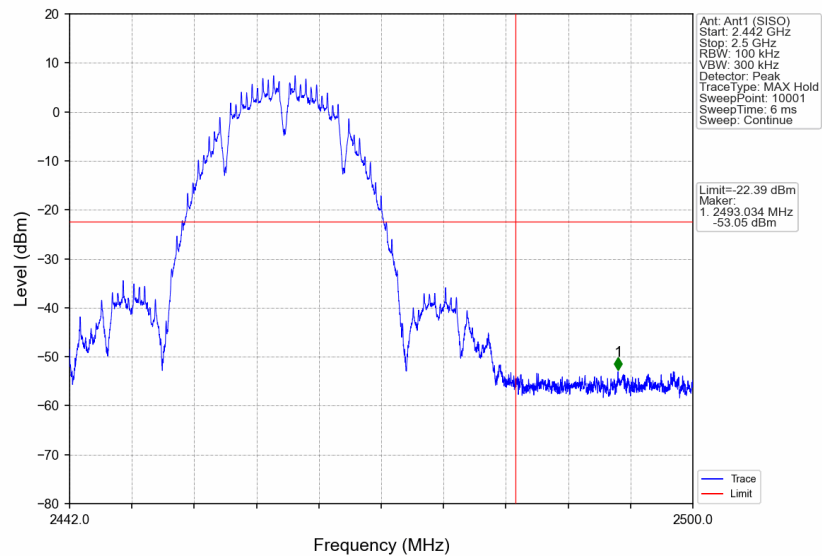
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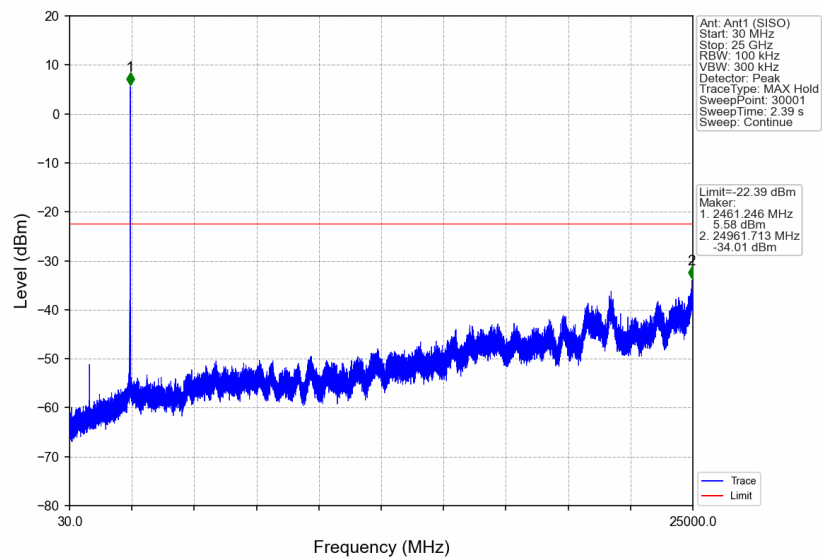
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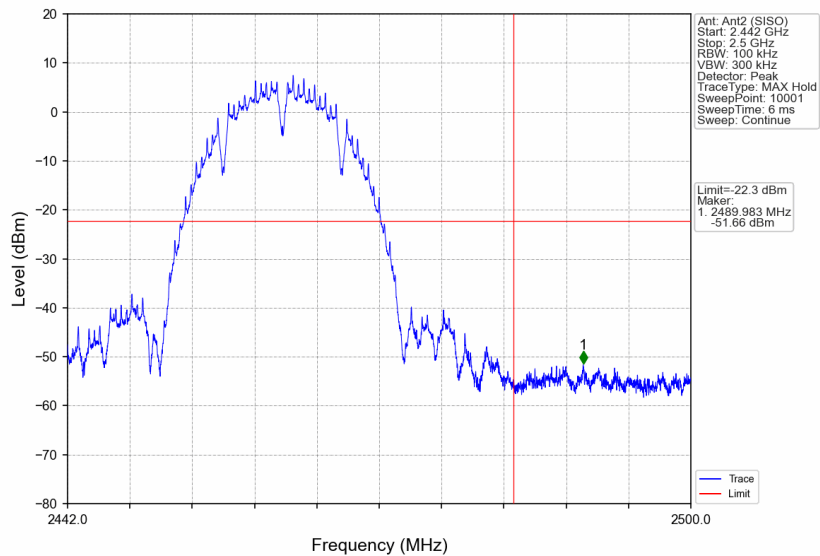
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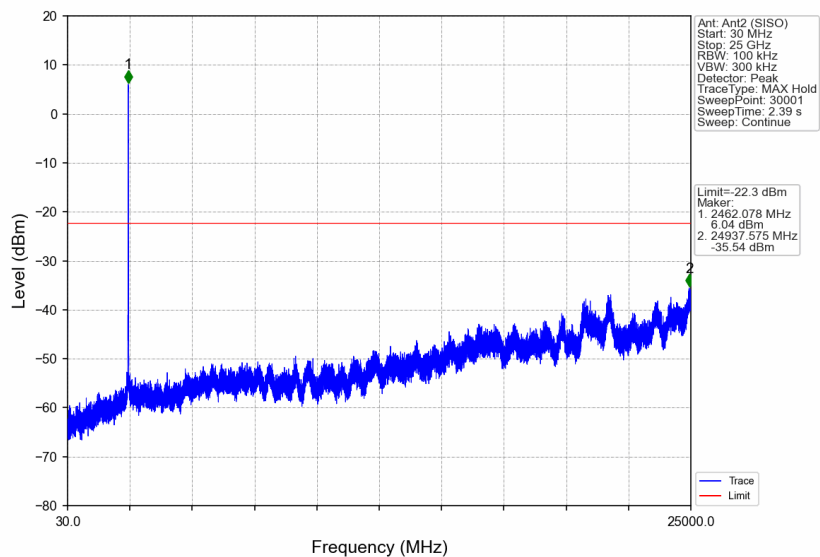
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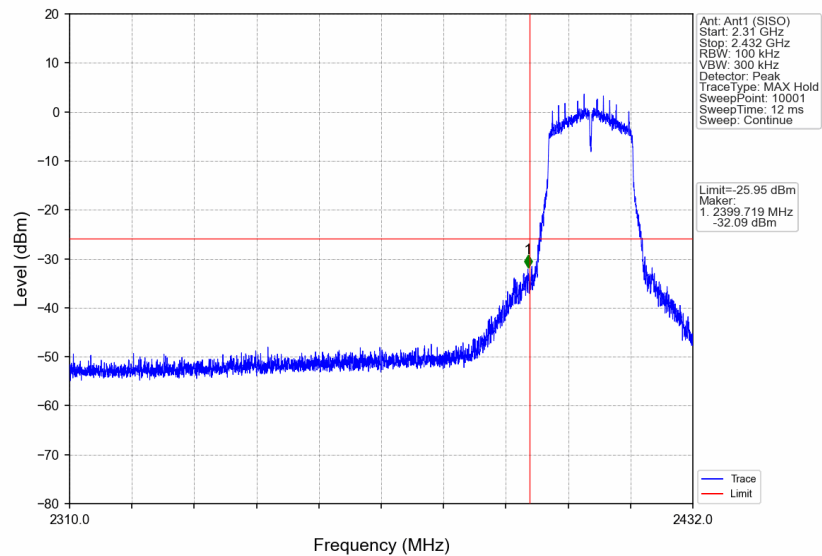
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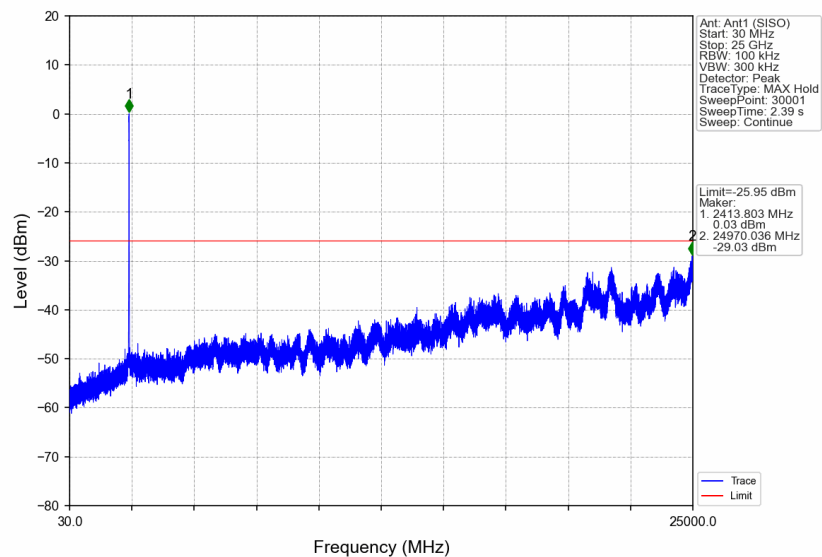
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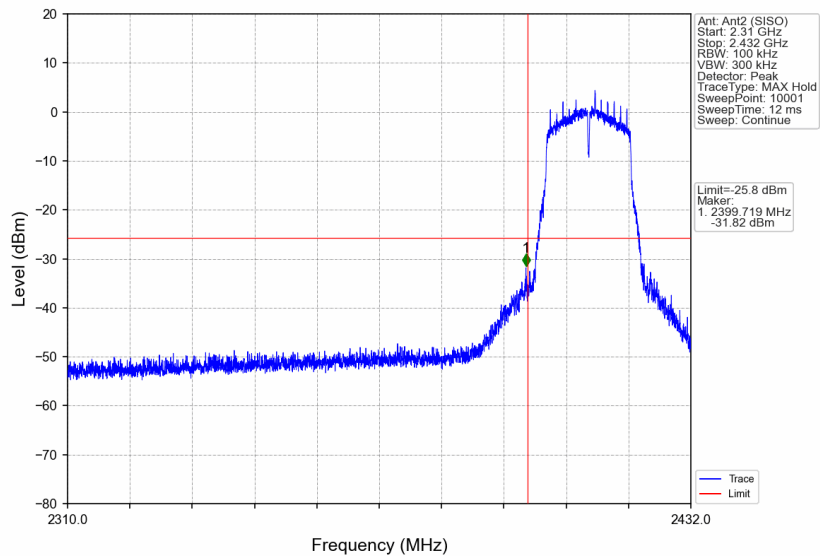
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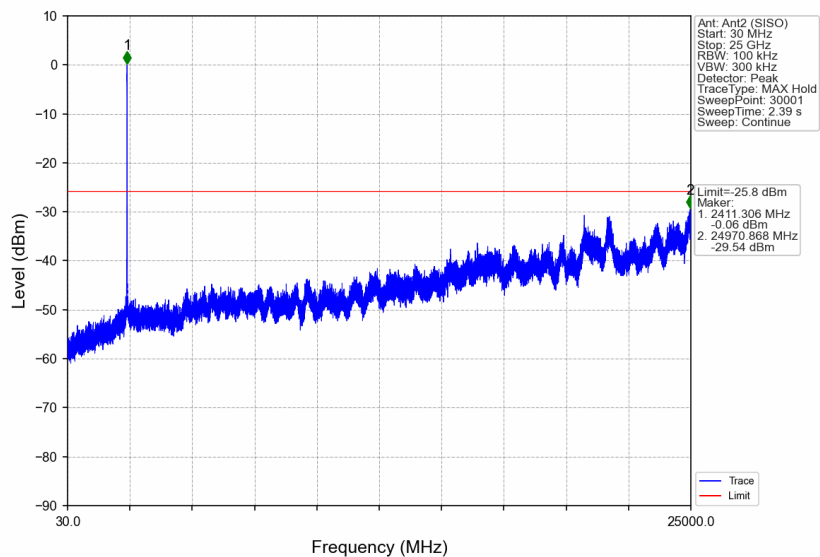
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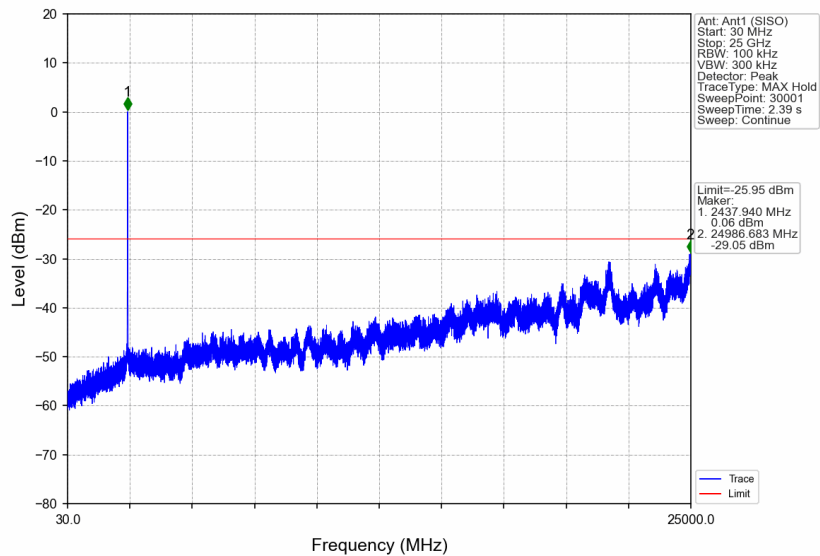
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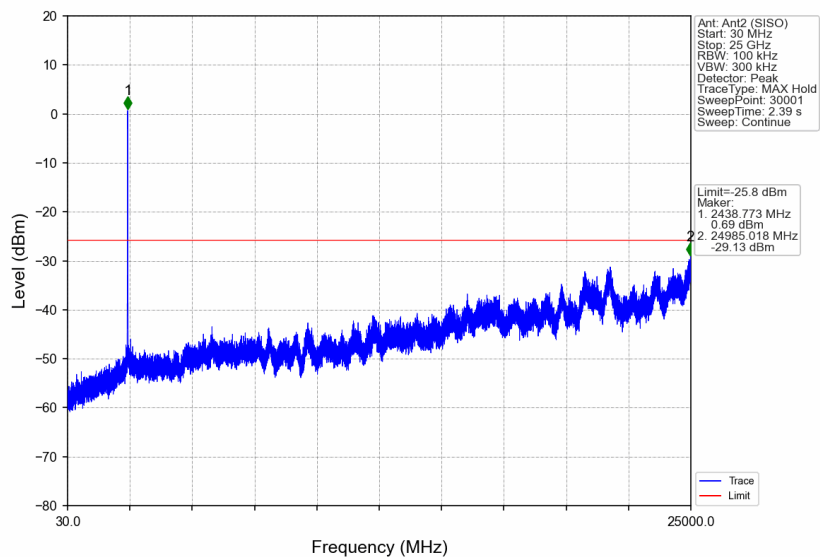
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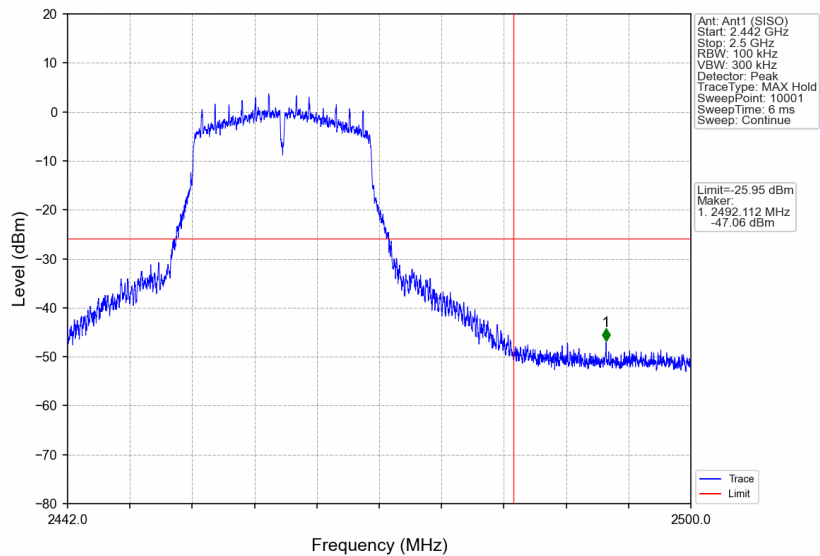
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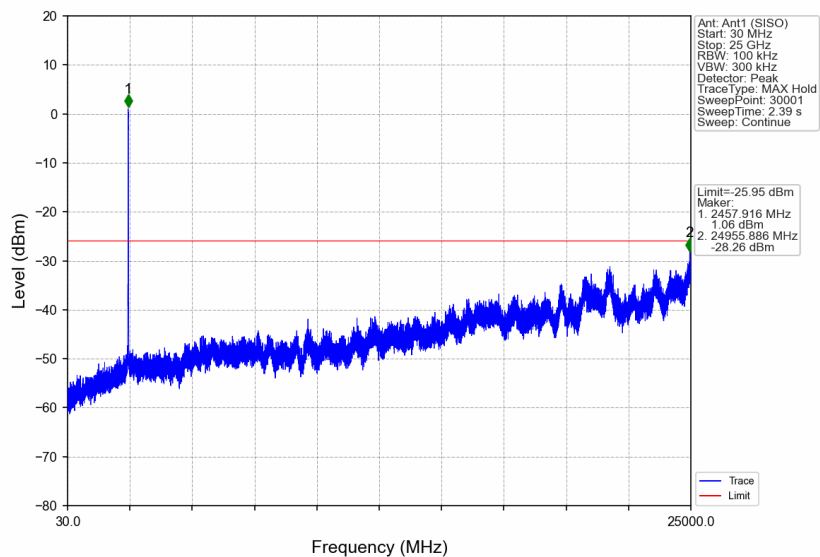
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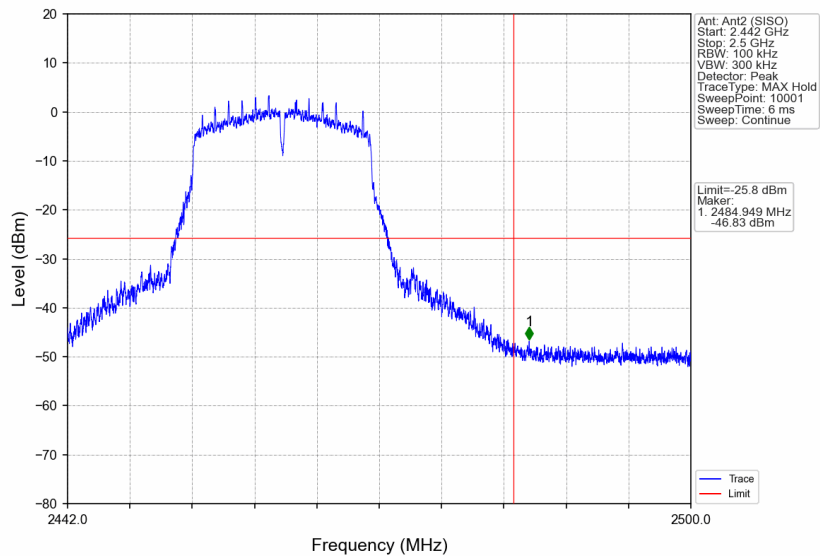
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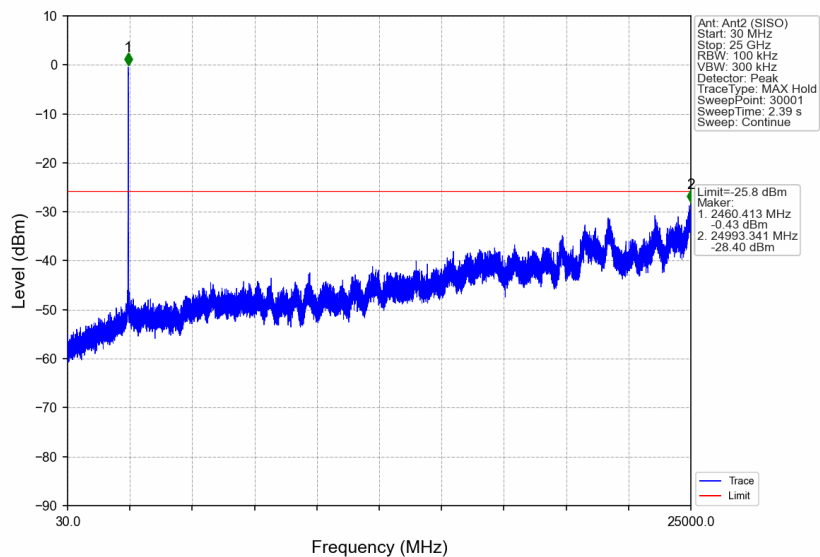
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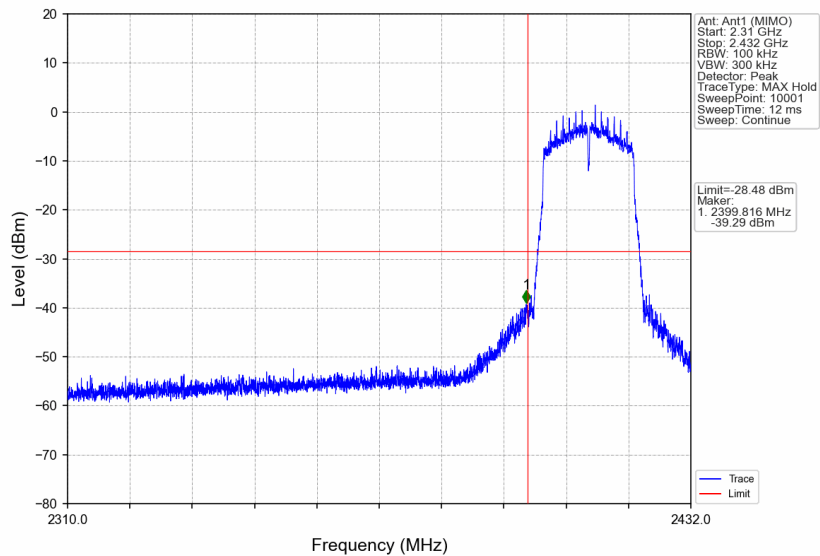
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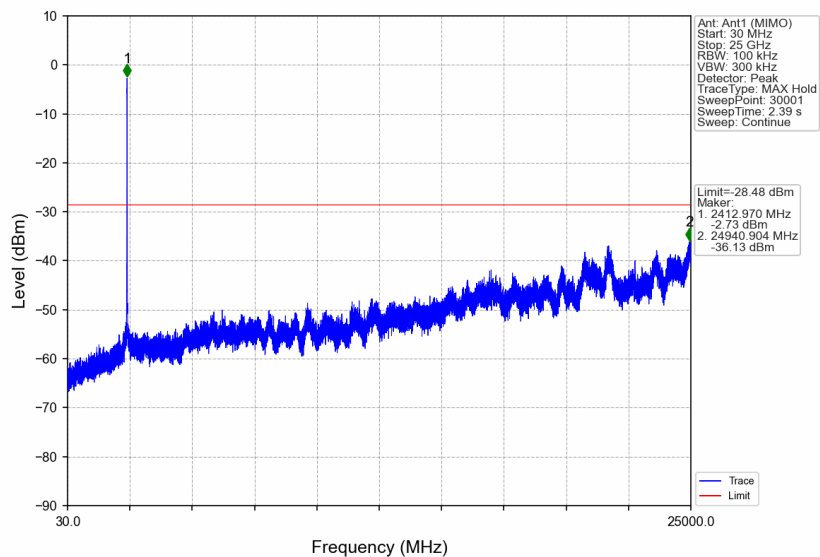
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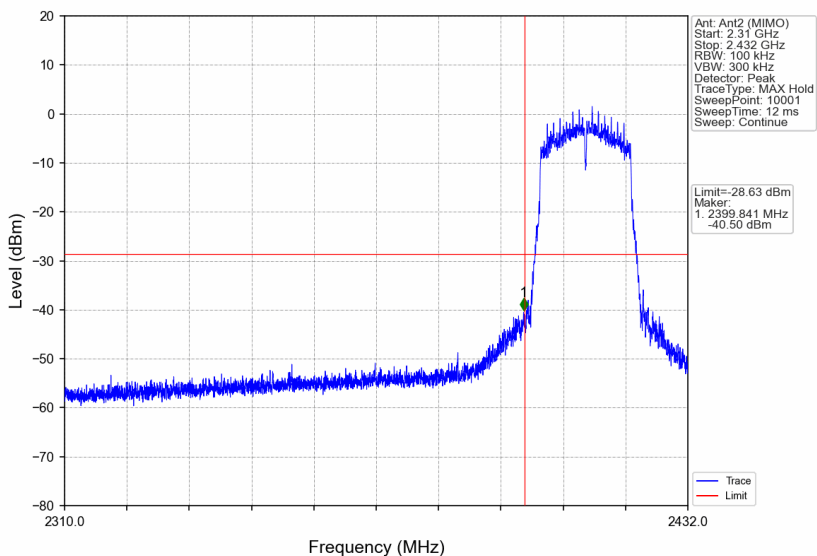
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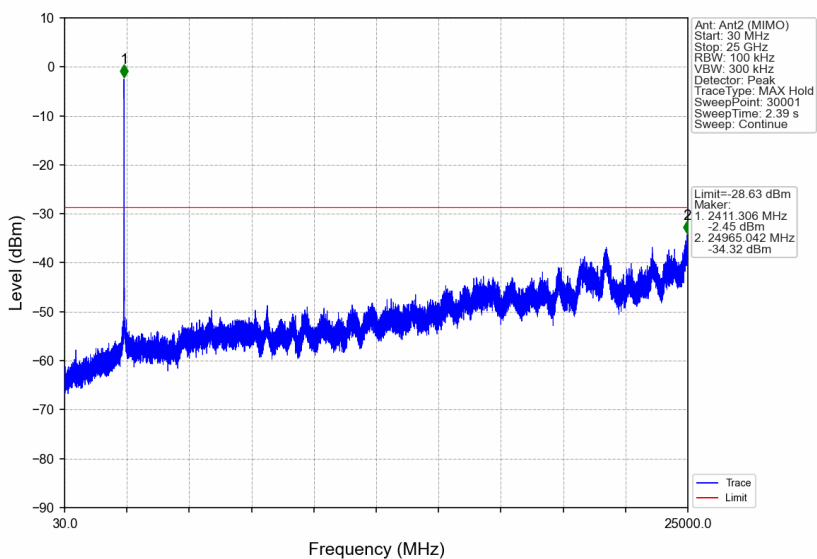
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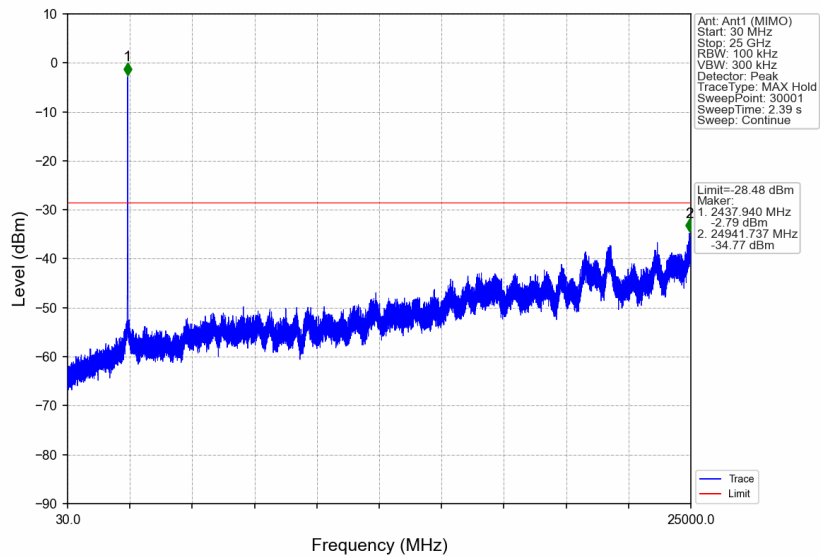
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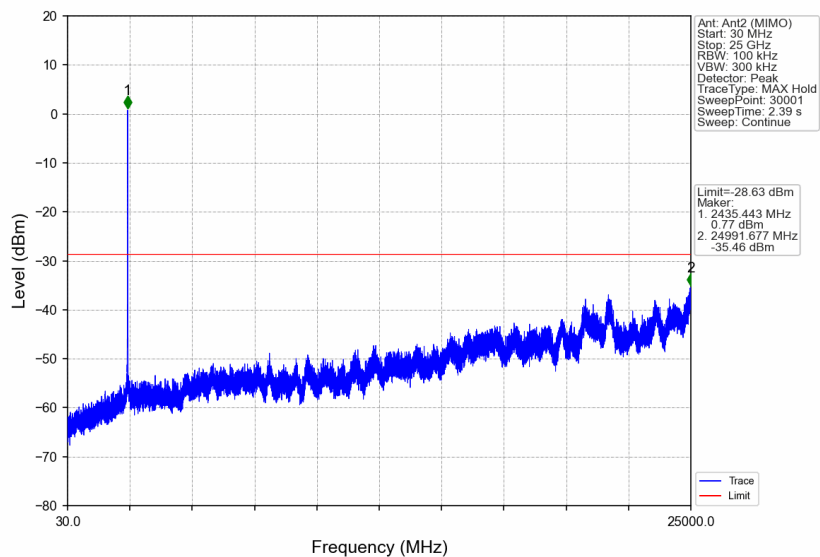
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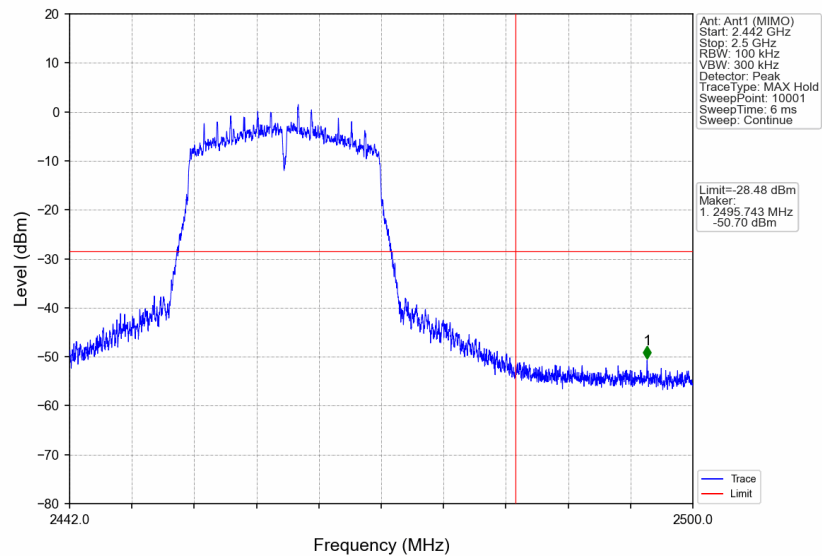
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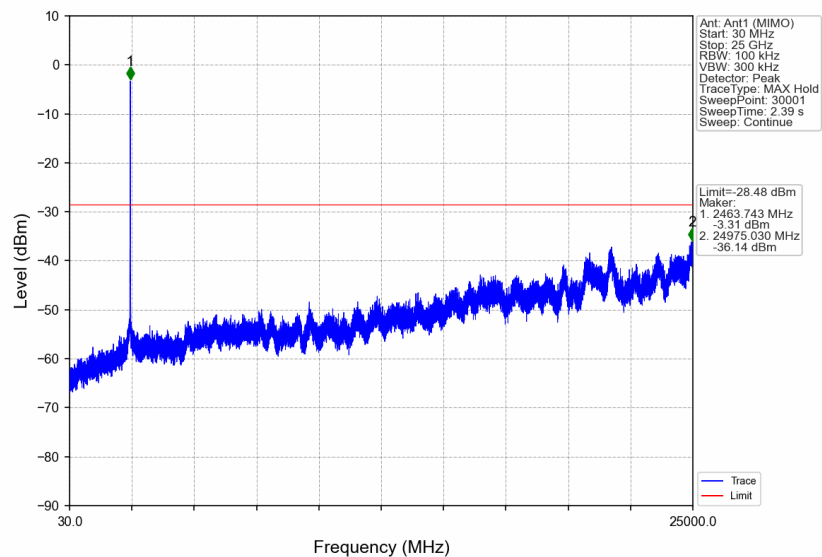
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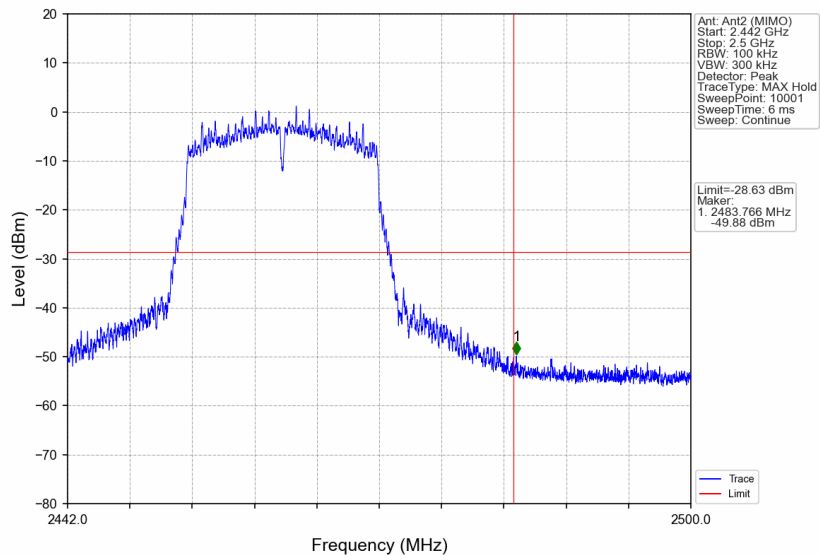
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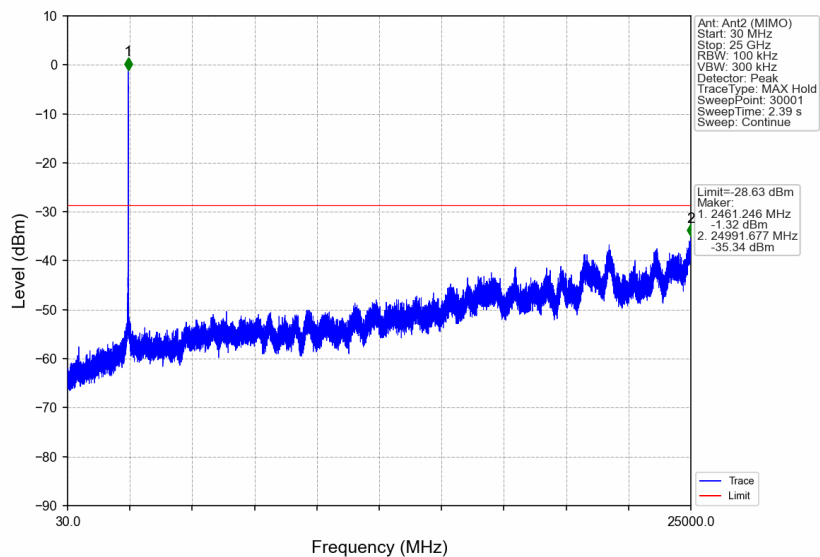
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