

Appendix A for KSCR220600092201

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	12.420	12.876	96.46	0.16	0.68
		2437	12.423	12.897	96.32	0.16	0.80
		2462	12.420	12.886	96.38	0.16	0.63
802.11g	SISO	2412	2.066	2.295	90.02	0.46	5.64
		2437	2.066	2.295	90.02	0.46	5.21
		2462	2.065	2.285	90.37	0.44	4.83
802.11n (HT20)	MIMO	2412	1.922	2.151	89.35	0.49	5.53
		2437	1.922	2.106	91.26	0.40	3.23
		2462	1.922	2.142	89.73	0.47	5.17
802.11n (HT40)	MIMO	2422	0.946	1.175	80.51	0.94	8.90
		2437	0.946	1.225	77.22	1.12	12.96
		2452	0.946	1.175	80.51	0.94	10.45



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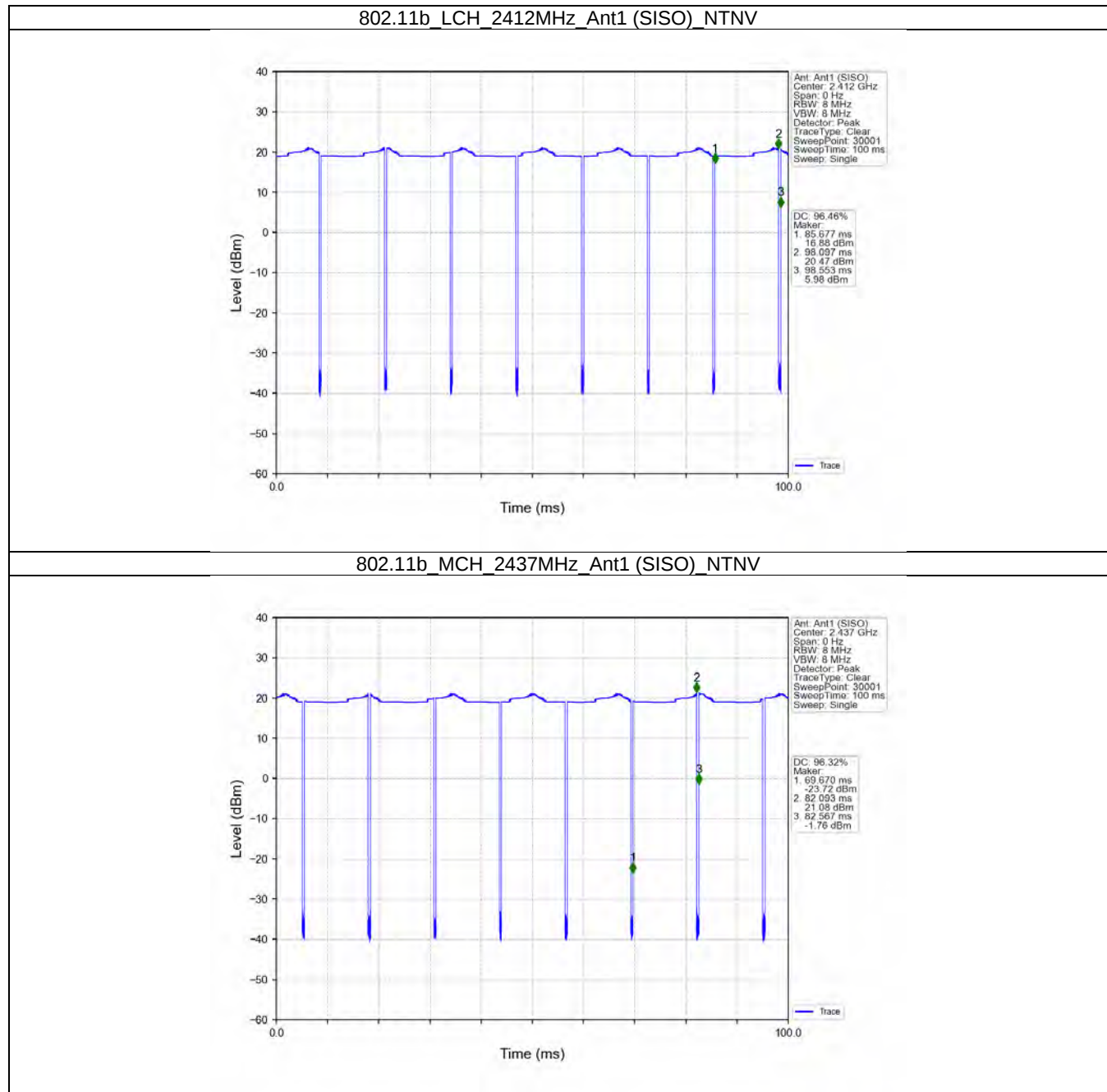
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1.1.2 Test Graph



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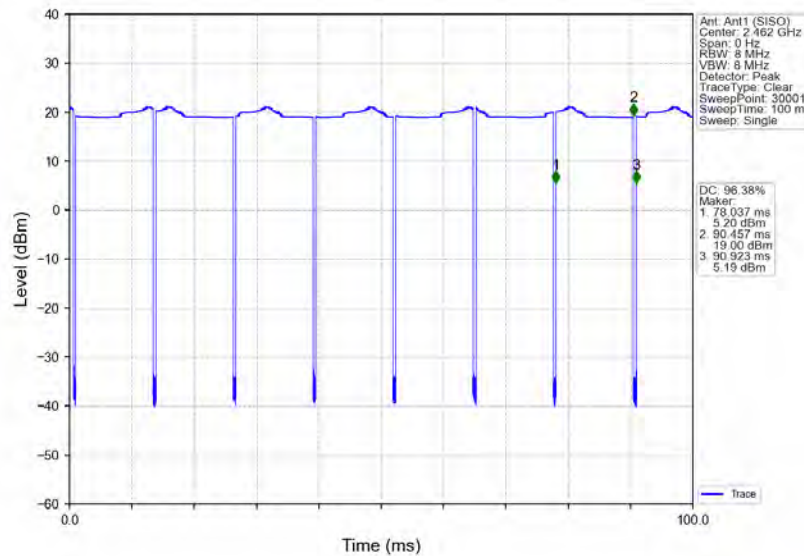
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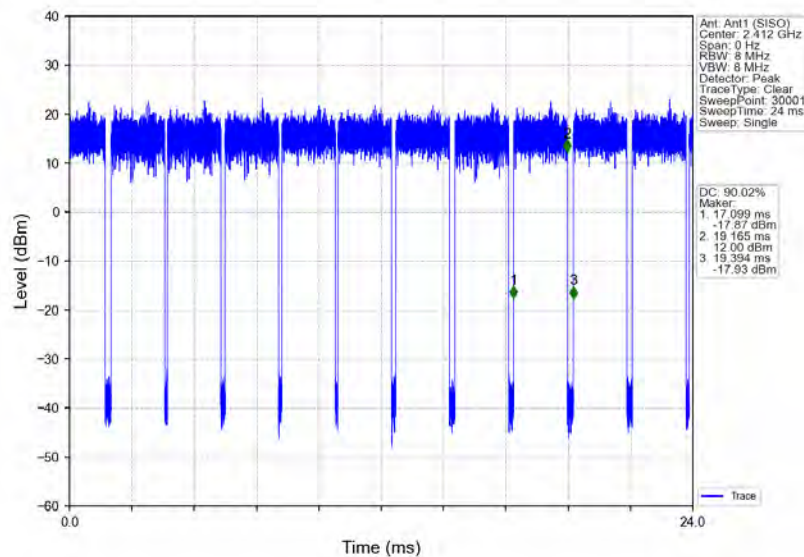
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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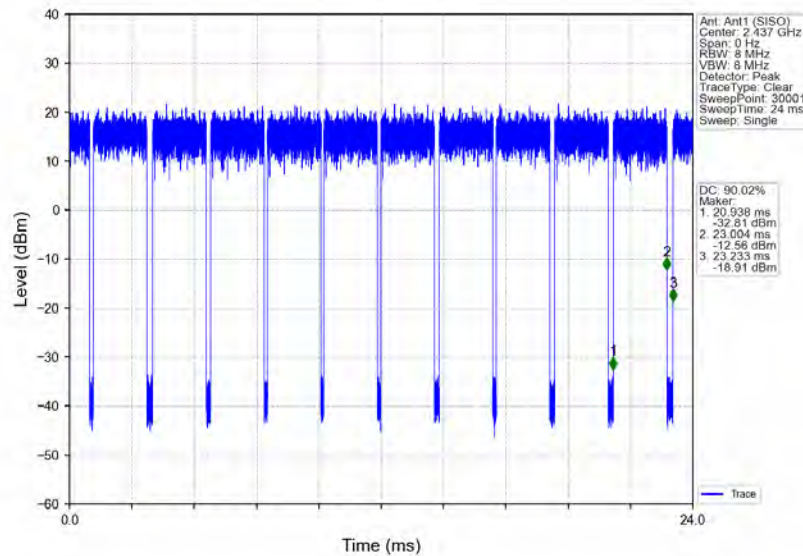
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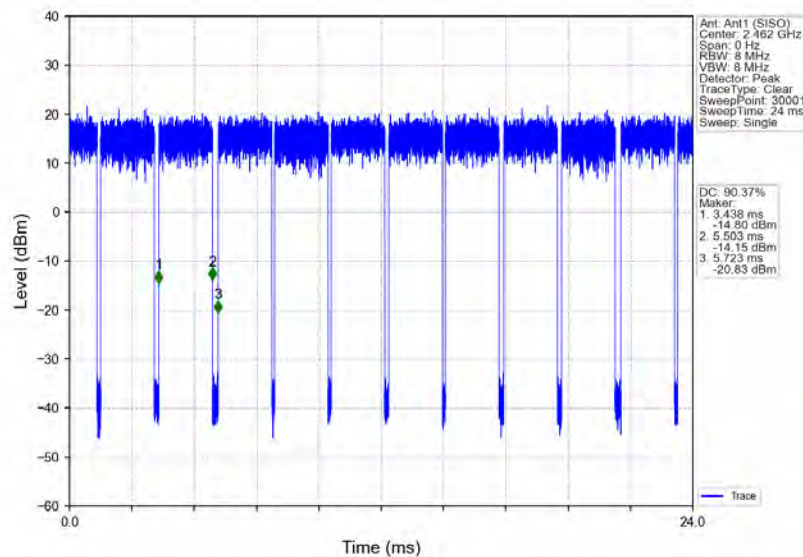
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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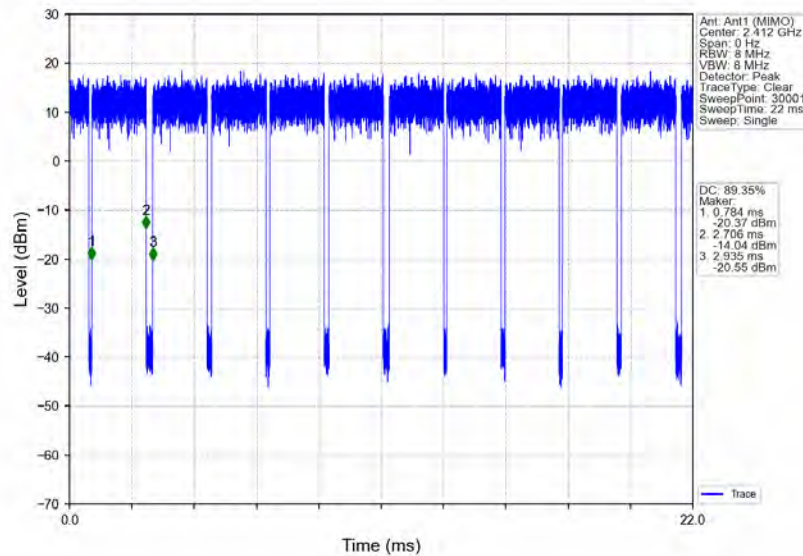
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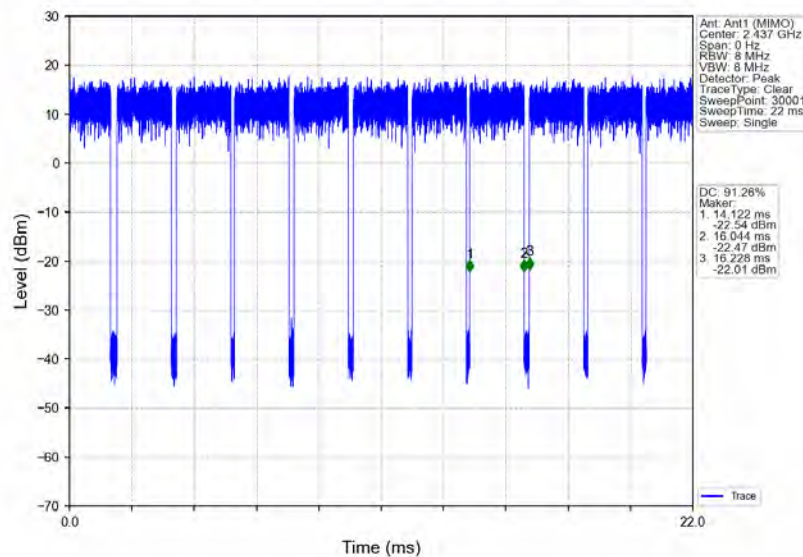
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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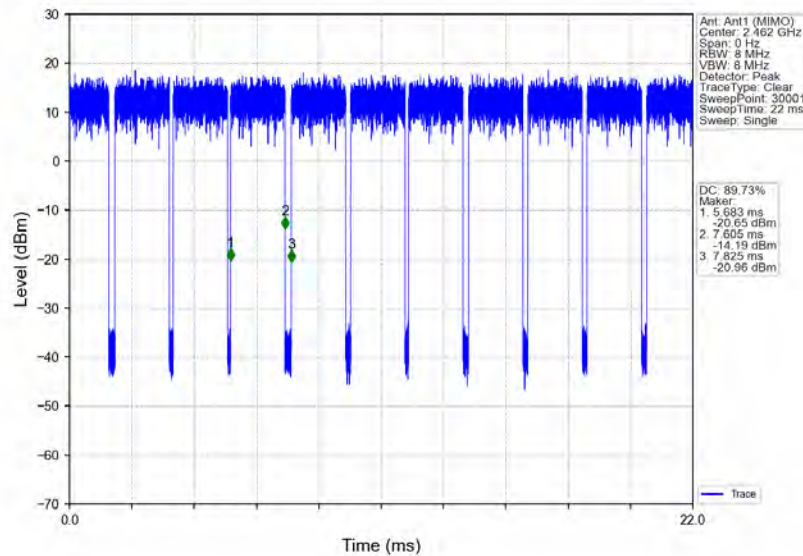
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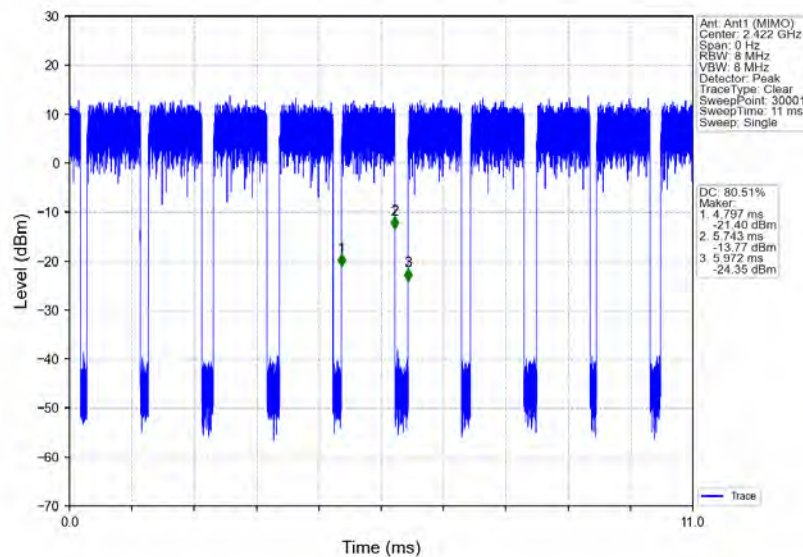
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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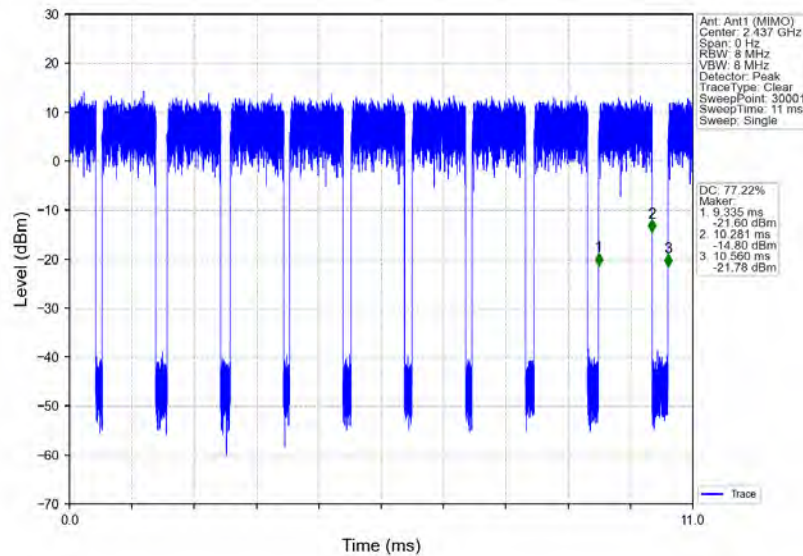
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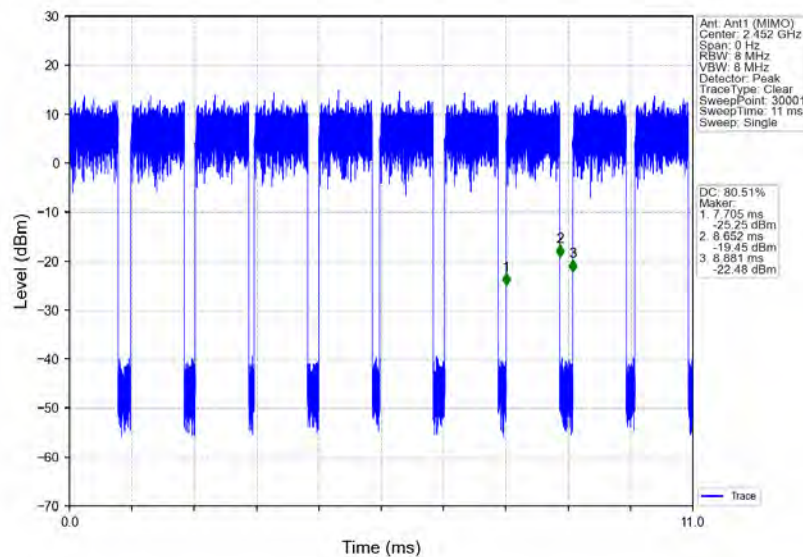
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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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	15.209	Pass
			2	14.931	Pass
		2437	1	15.070	Pass
			2	14.977	Pass
		2462	1	15.137	Pass
			2	14.919	Pass
802.11g	SISO	2412	1	17.384	Pass
			2	17.269	Pass
		2437	1	17.365	Pass
			2	17.313	Pass
		2462	1	17.455	Pass
			2	17.240	Pass
802.11n (HT20)	MIMO	2412	1	18.284	Pass
			2	18.290	Pass
		2437	1	18.470	Pass
			2	18.405	Pass
		2462	1	18.413	Pass
			2	18.366	Pass
802.11n (HT40)	MIMO	2422	1	36.430	Pass
			2	36.622	Pass
		2437	1	36.271	Pass
			2	36.433	Pass
		2452	1	36.661	Pass
			2	36.686	Pass



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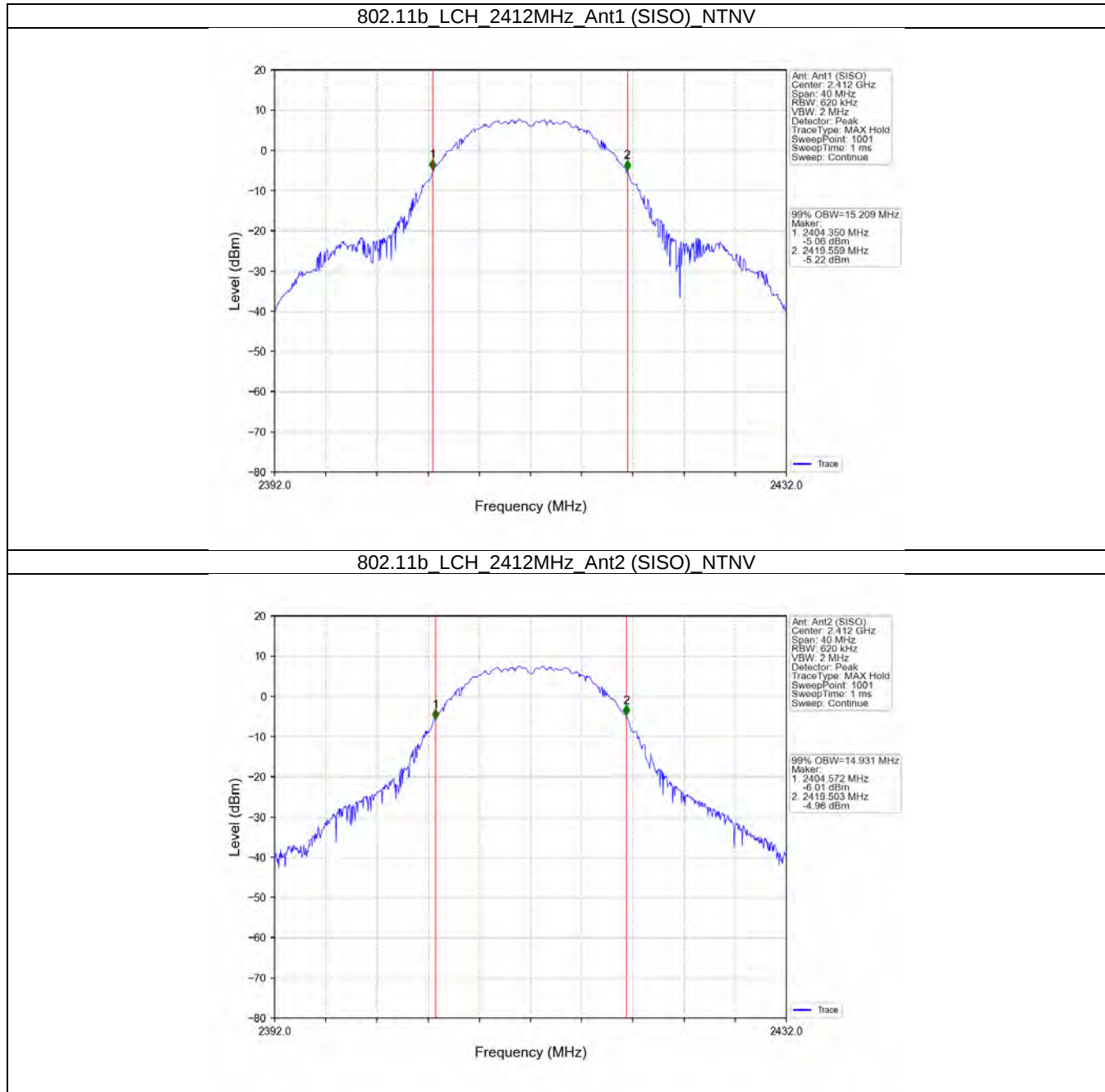
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2.1.2 Test Graph



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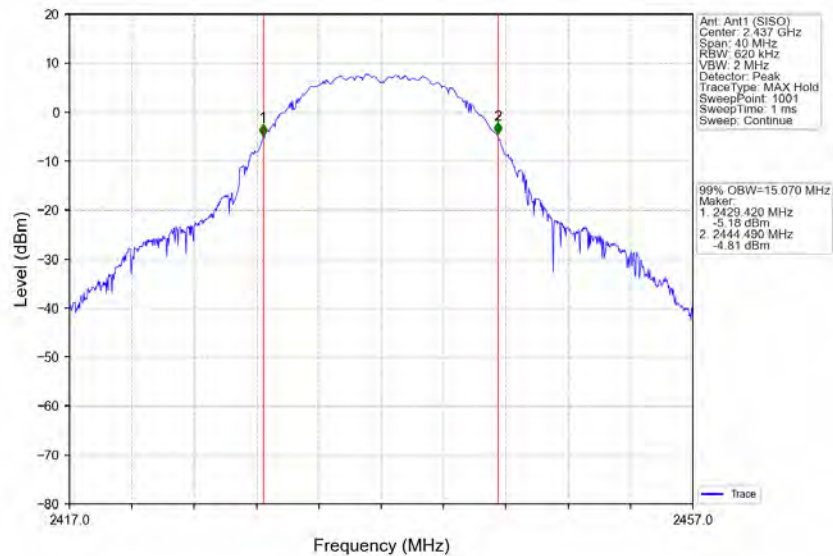
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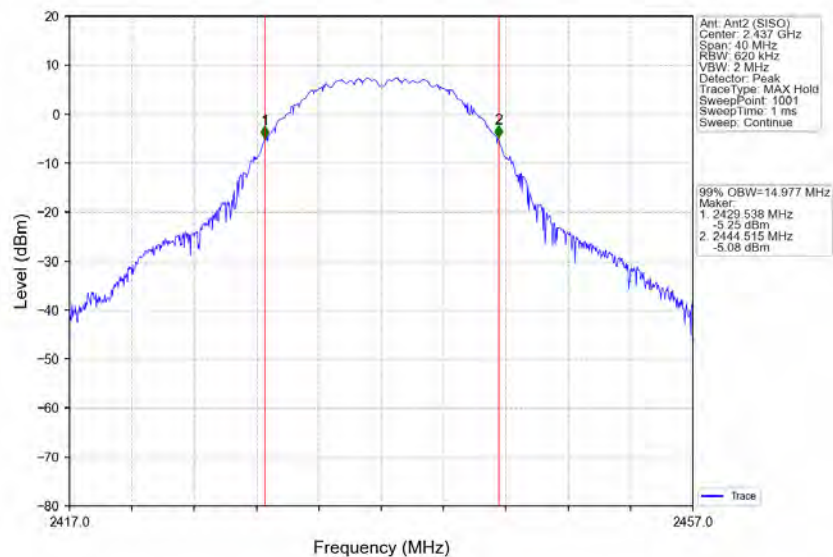
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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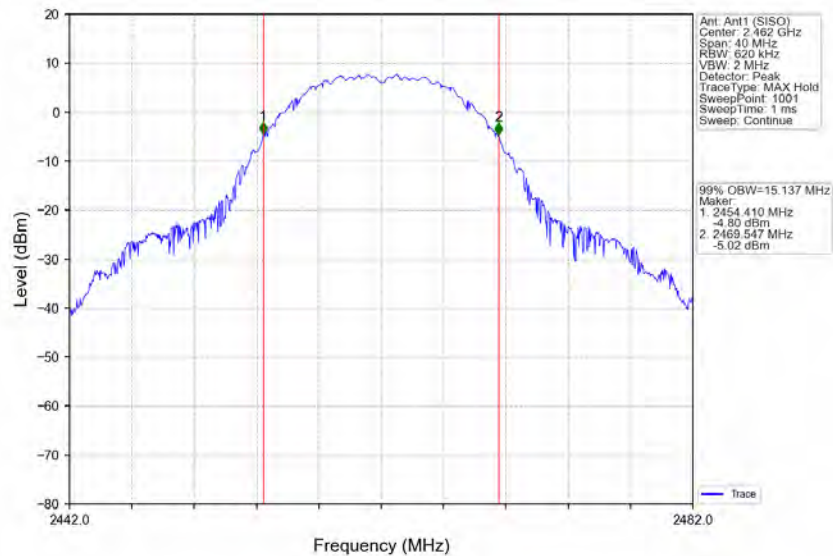
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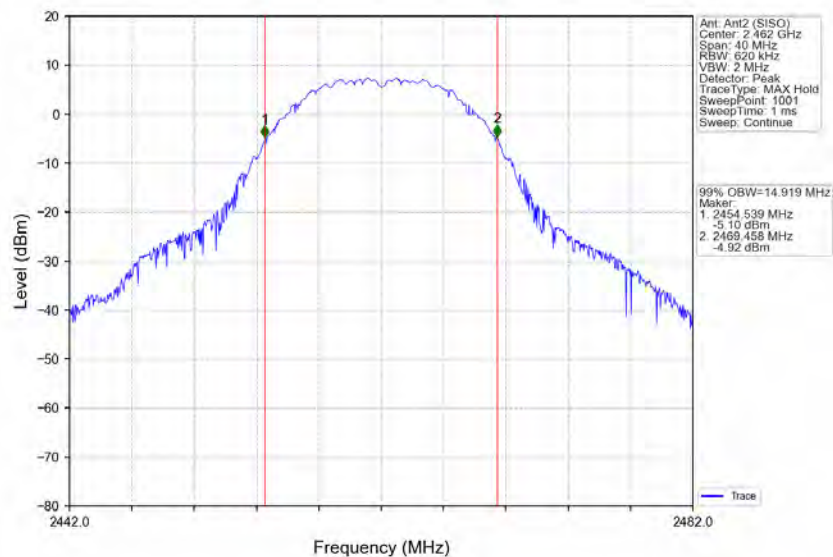
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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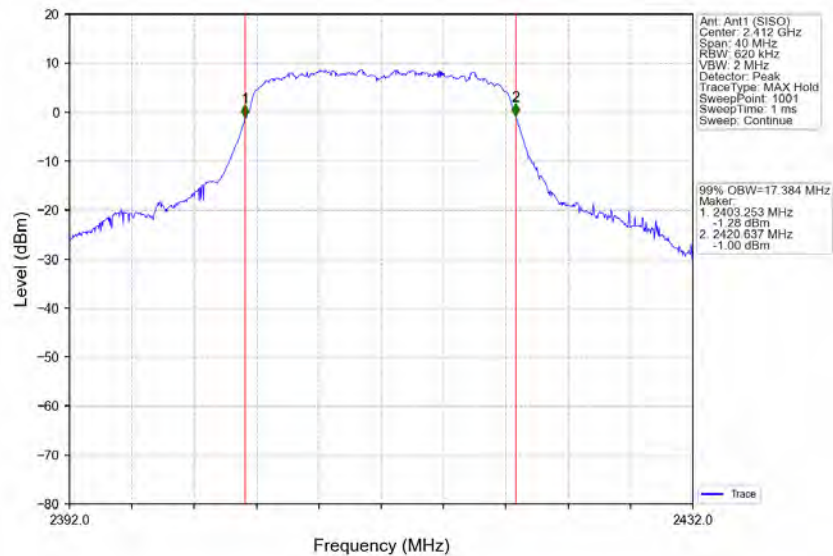
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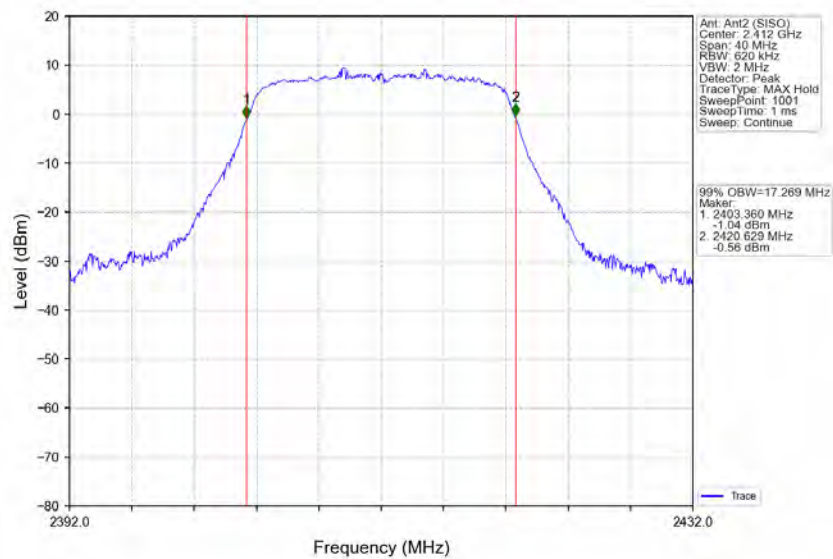
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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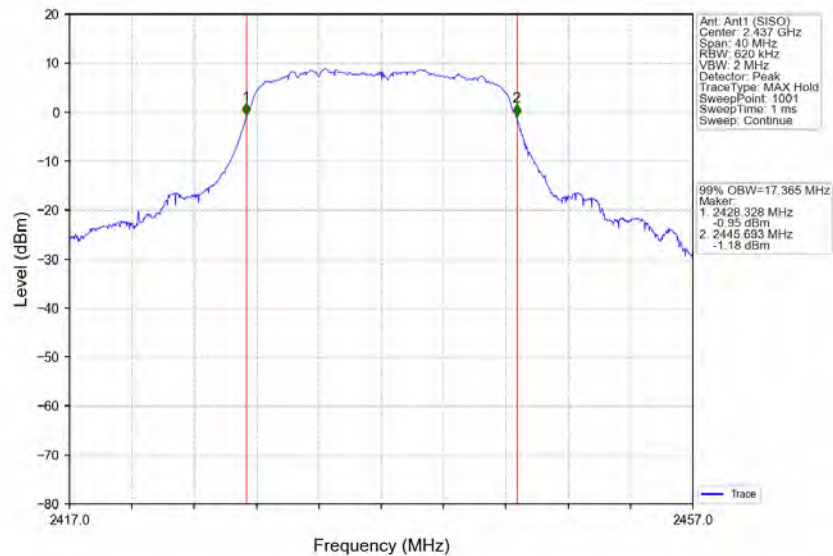
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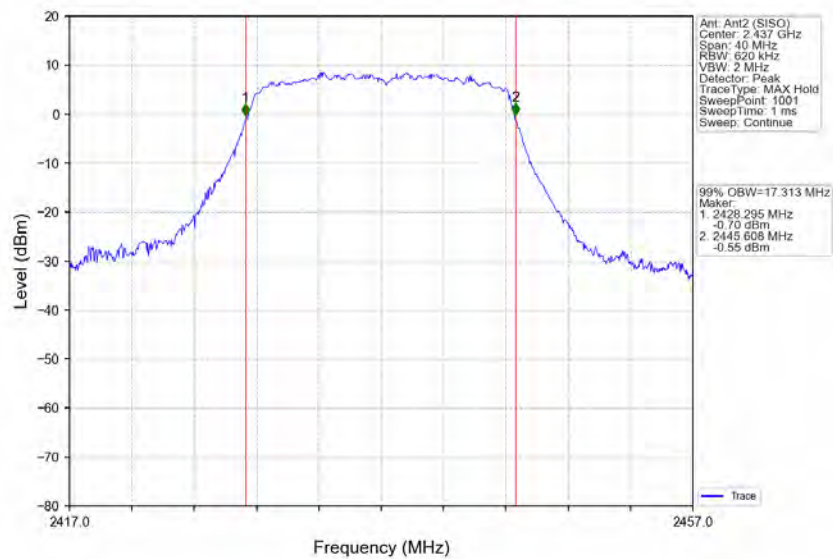
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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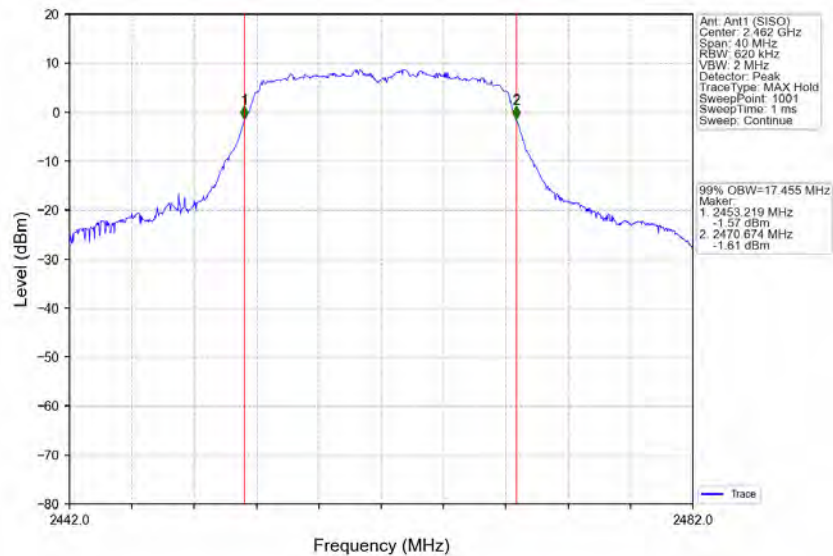
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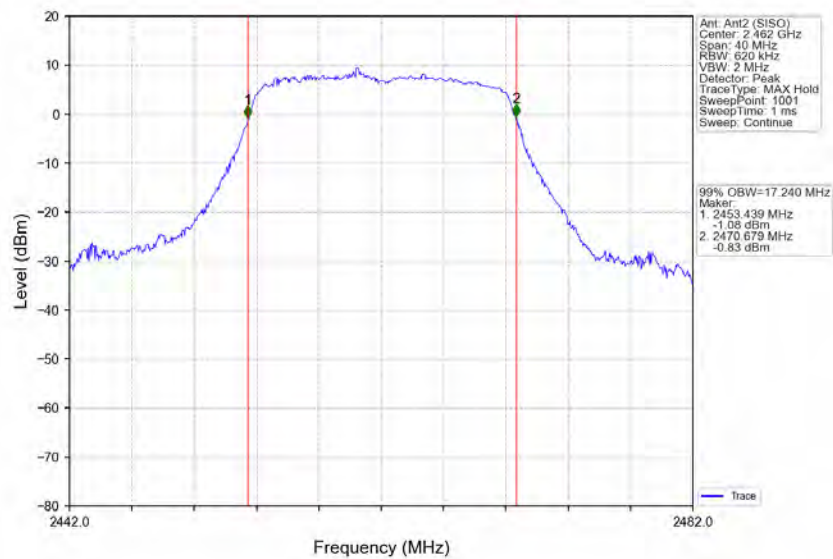
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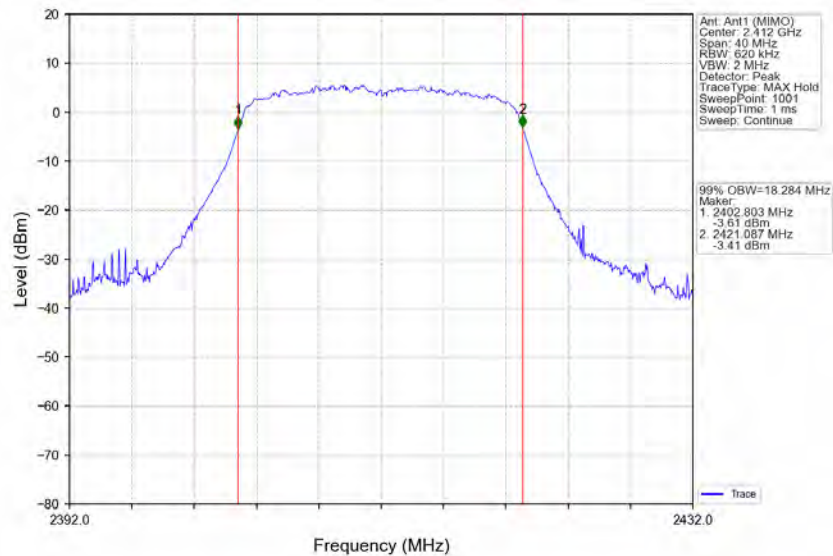
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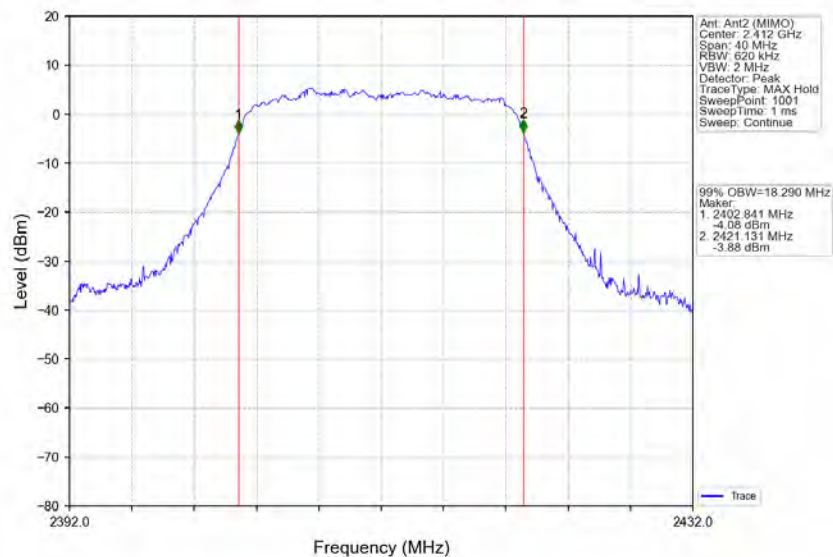
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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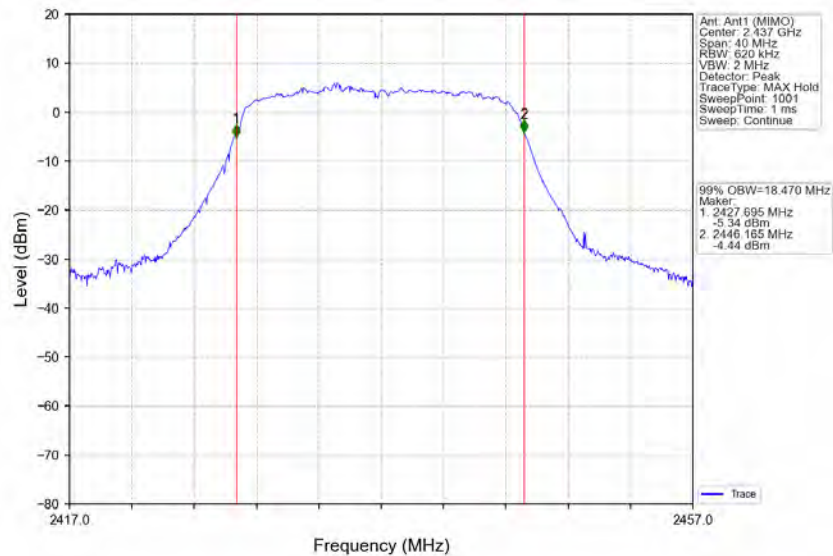
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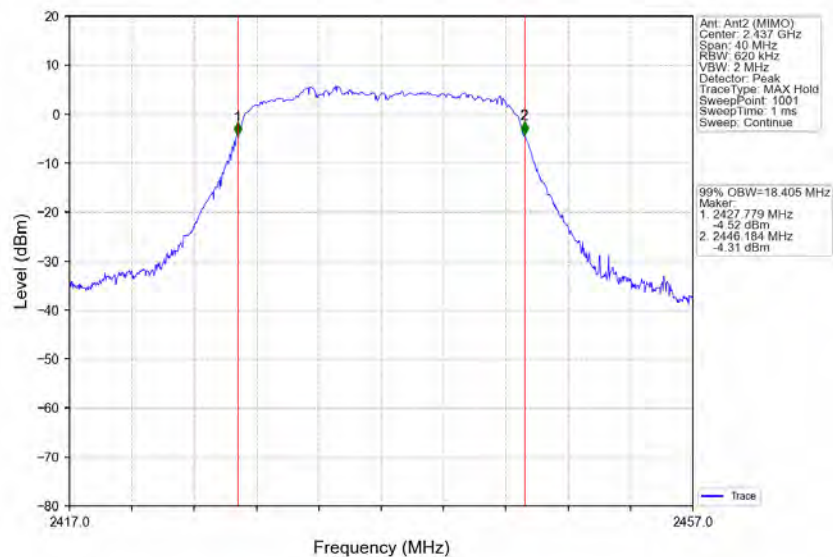
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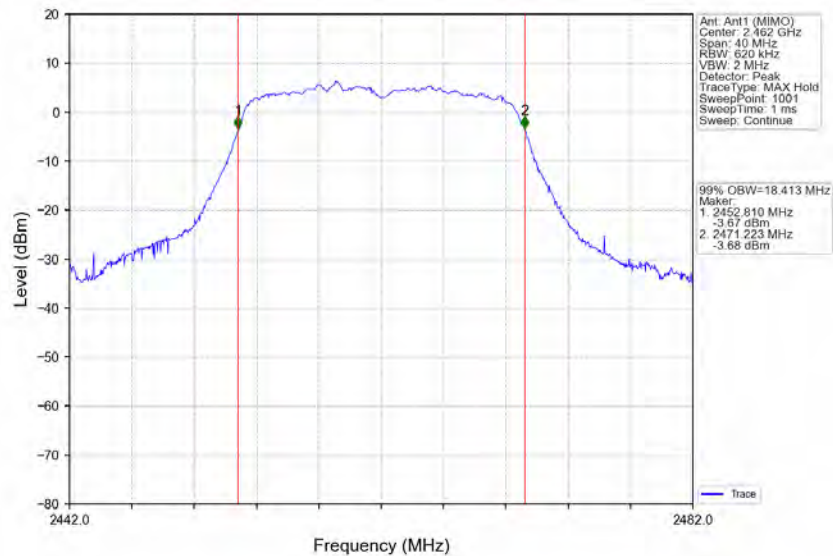
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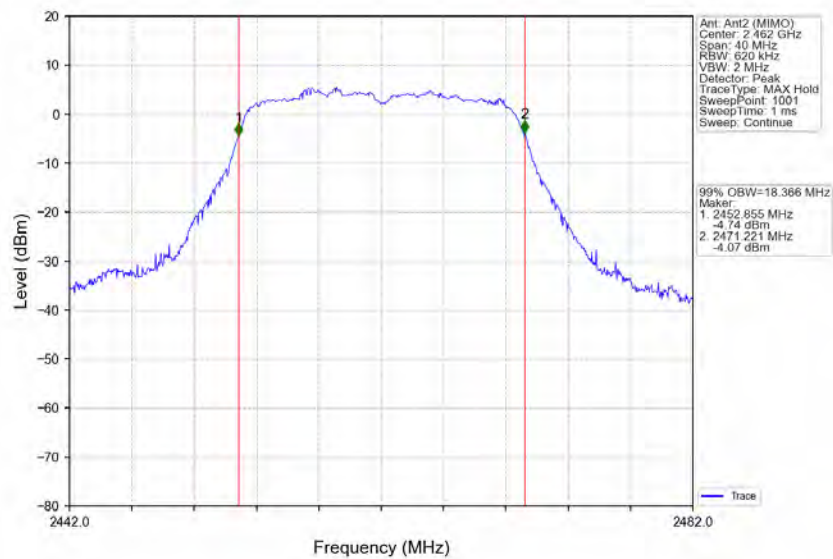
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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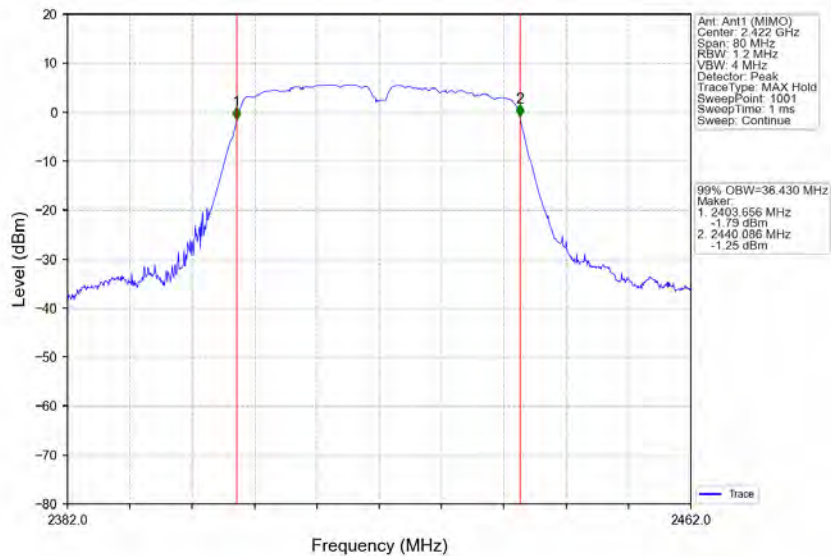
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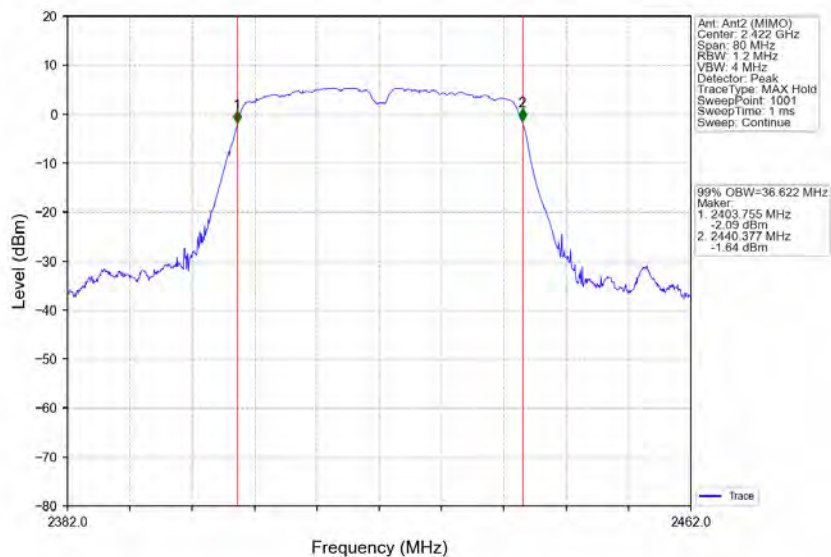
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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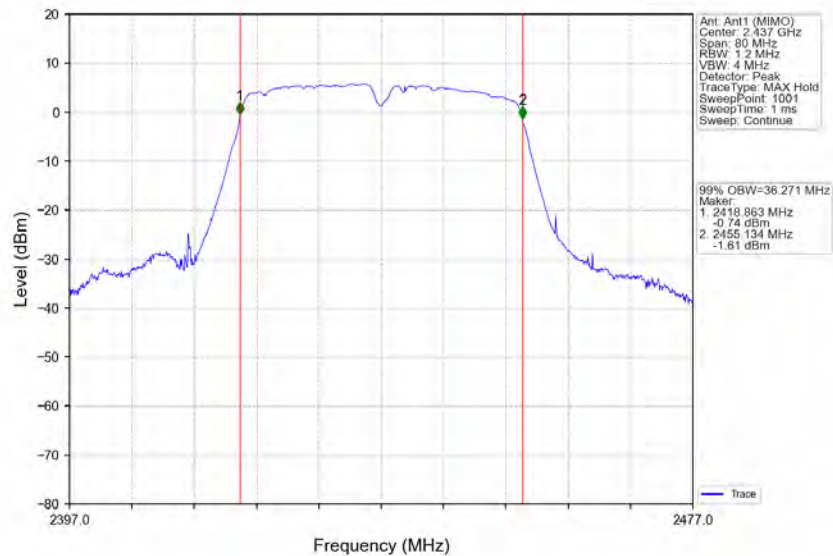
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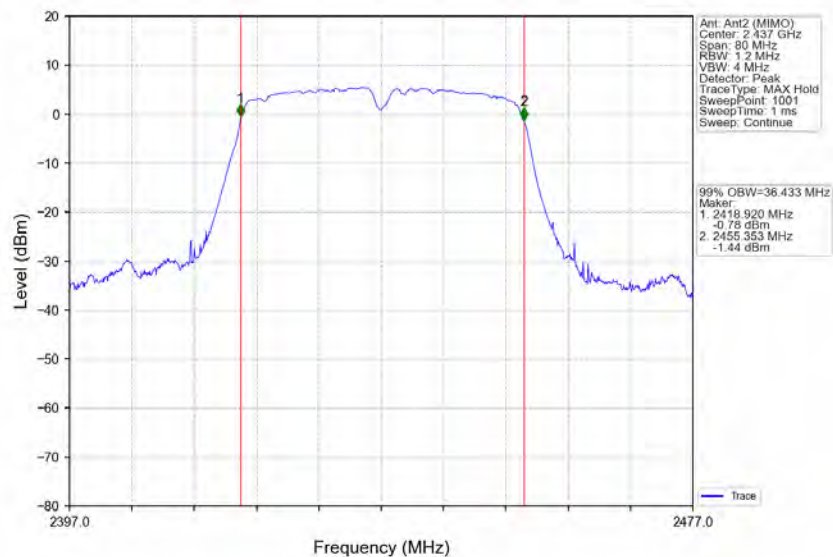
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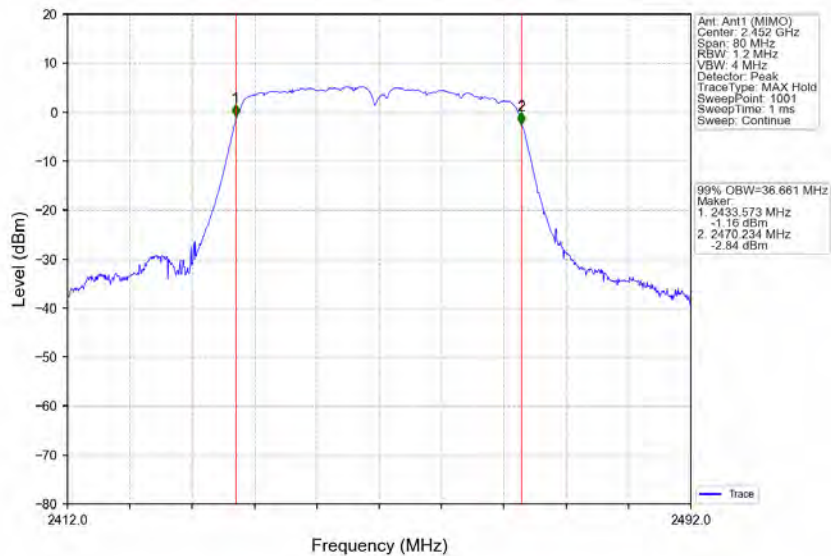
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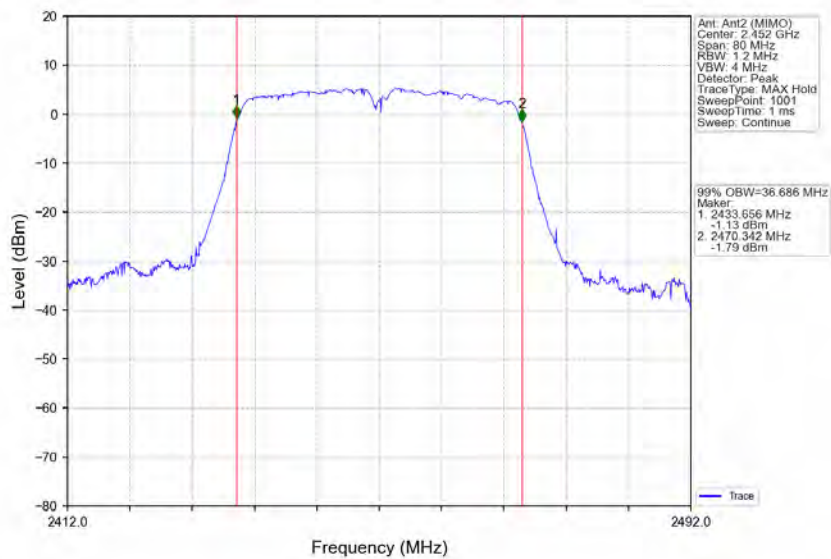
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.144	≥ 0.5	Pass
			2	10.147	≥ 0.5	Pass
		2437	1	10.144	≥ 0.5	Pass
			2	10.145	≥ 0.5	Pass
		2462	1	10.153	≥ 0.5	Pass
			2	10.143	≥ 0.5	Pass
802.11g	SISO	2412	1	15.903	≥ 0.5	Pass
			2	15.687	≥ 0.5	Pass
		2437	1	15.726	≥ 0.5	Pass
			2	16.067	≥ 0.5	Pass
		2462	1	15.719	≥ 0.5	Pass
			2	15.697	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.755	≥ 0.5	Pass
			2	16.811	≥ 0.5	Pass
		2437	1	15.958	≥ 0.5	Pass
			2	16.312	≥ 0.5	Pass
		2462	1	16.928	≥ 0.5	Pass
			2	16.639	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.176	≥ 0.5	Pass
			2	35.177	≥ 0.5	Pass
		2437	1	35.340	≥ 0.5	Pass
			2	35.183	≥ 0.5	Pass
		2452	1	35.187	≥ 0.5	Pass
			2	35.171	≥ 0.5	Pass



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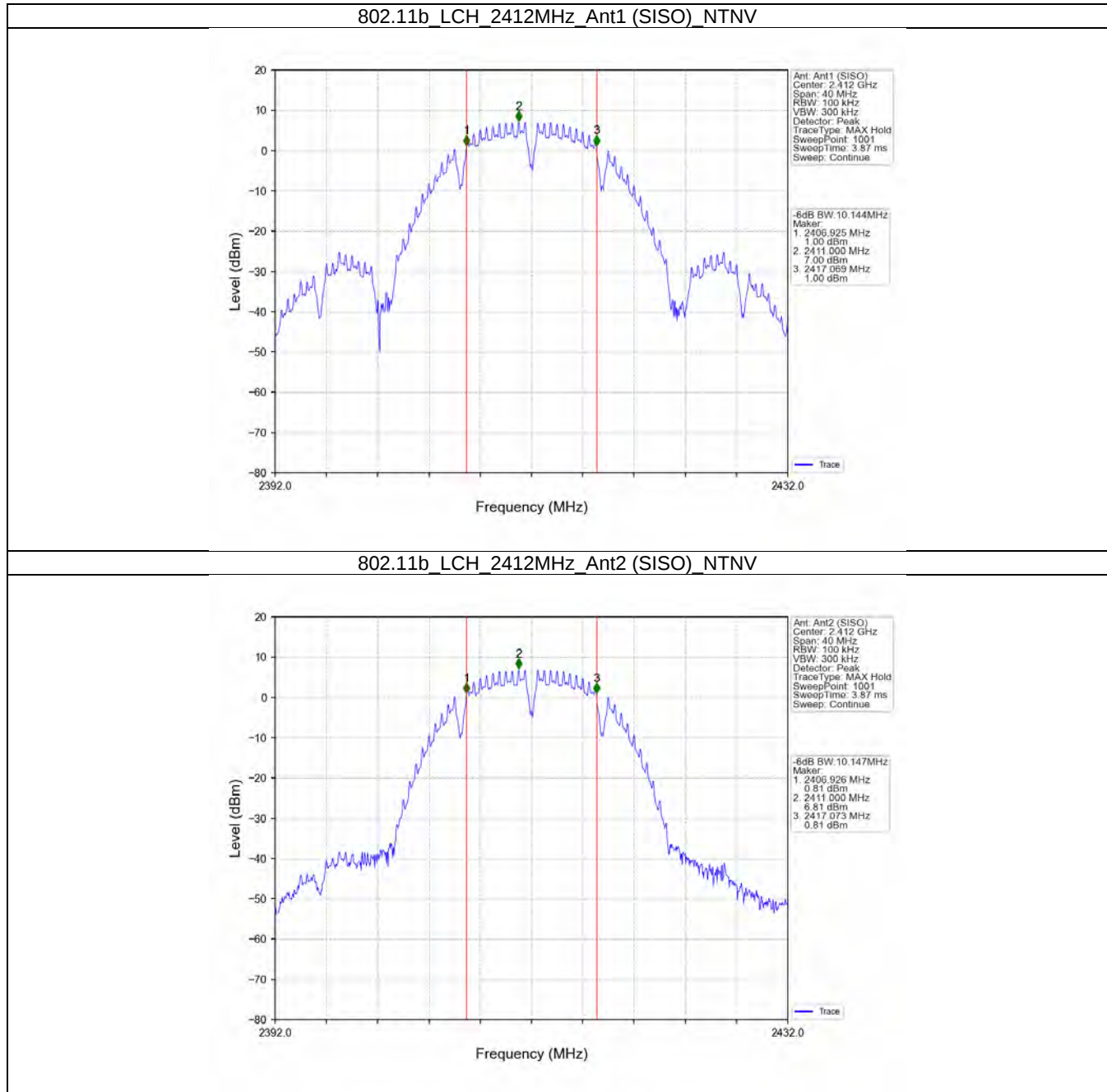
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2.2.2 Test Graph



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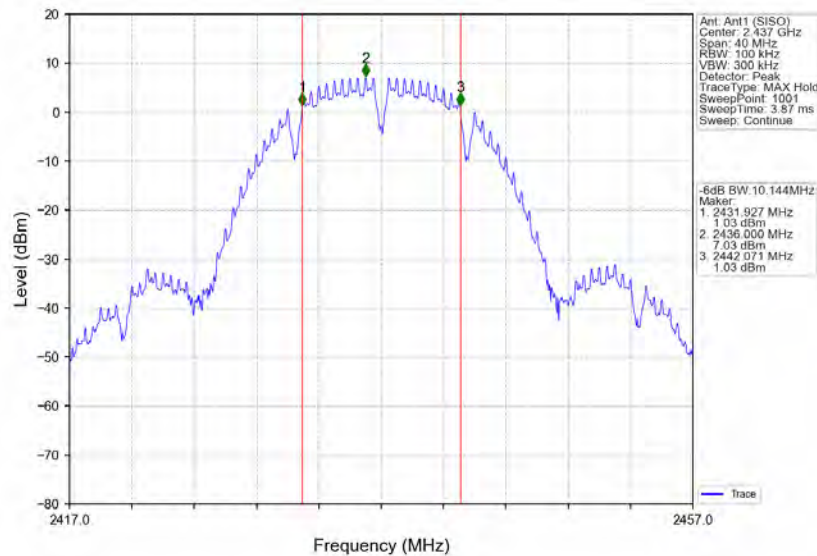
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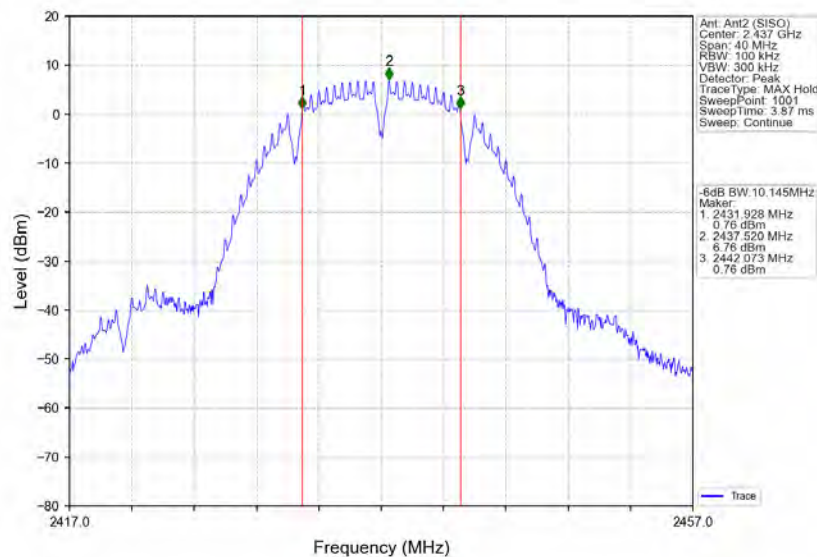
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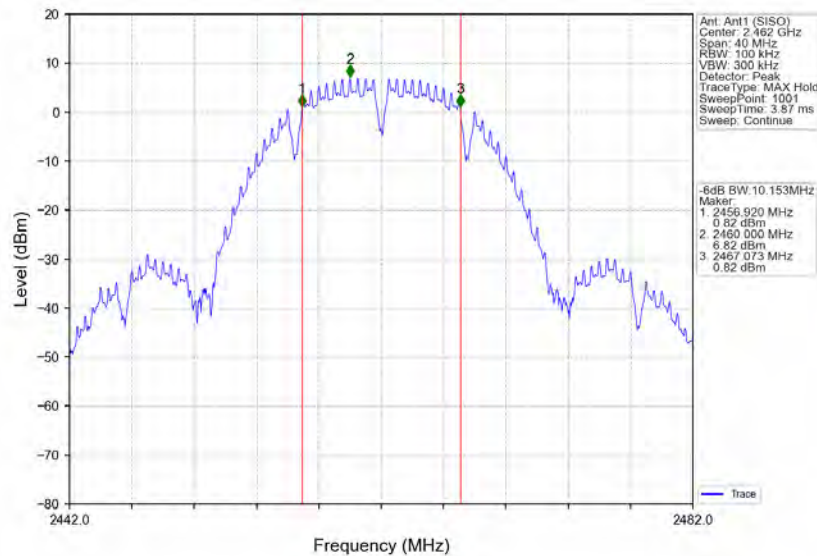
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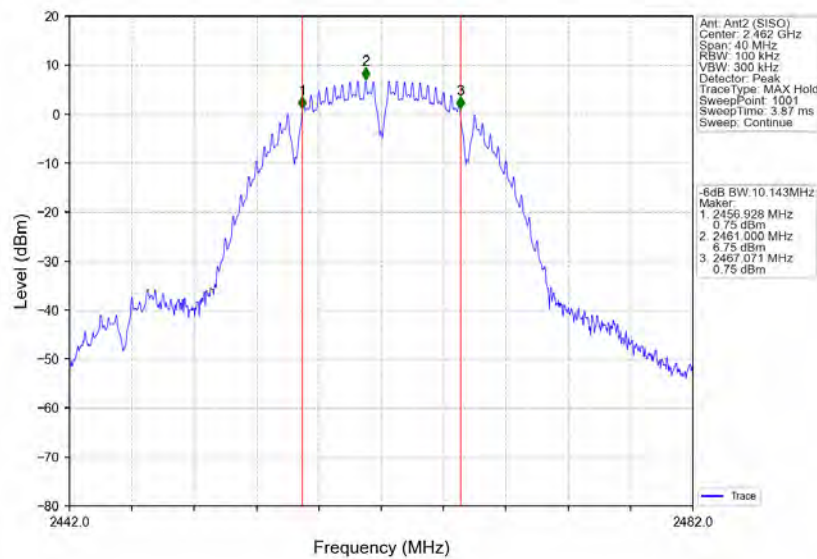
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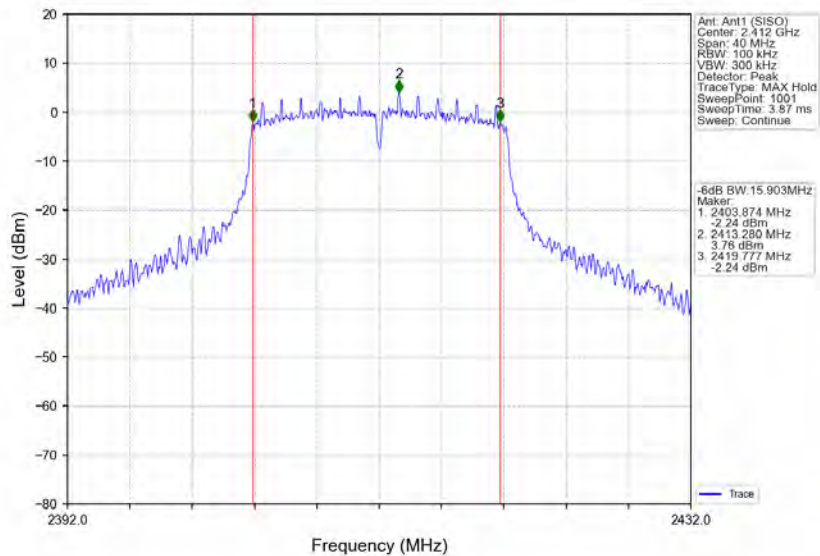
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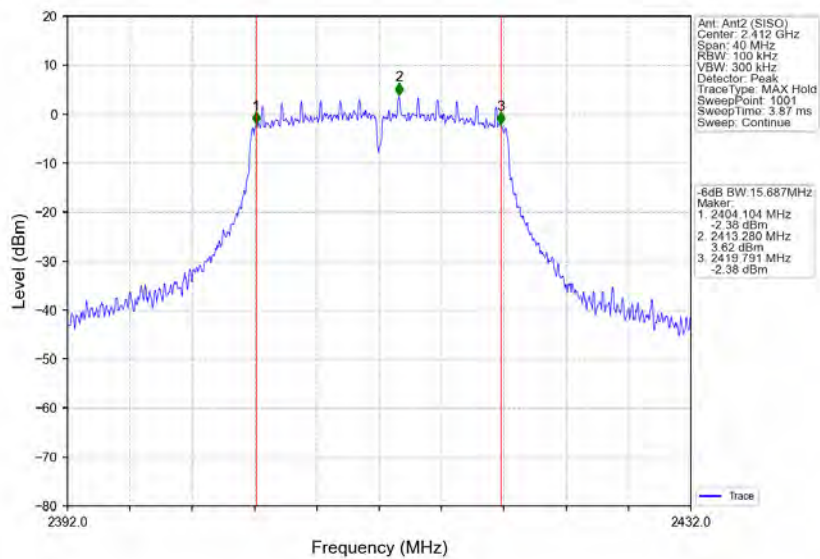
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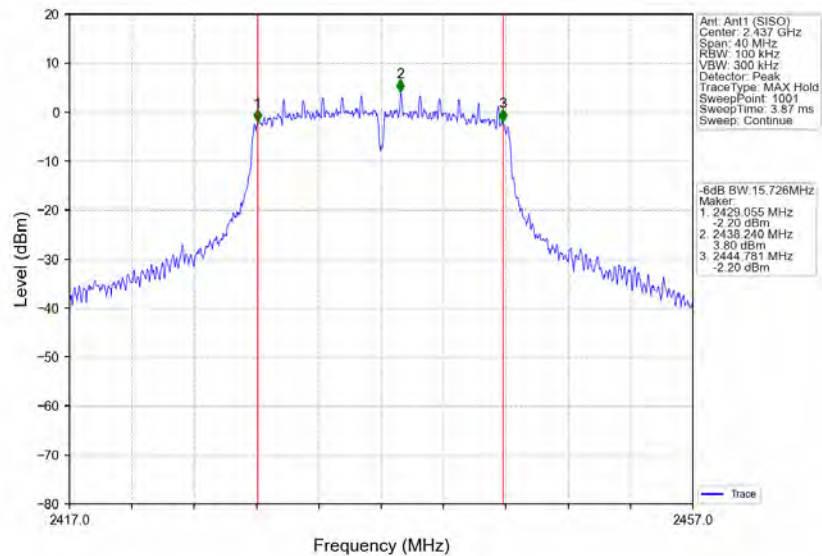
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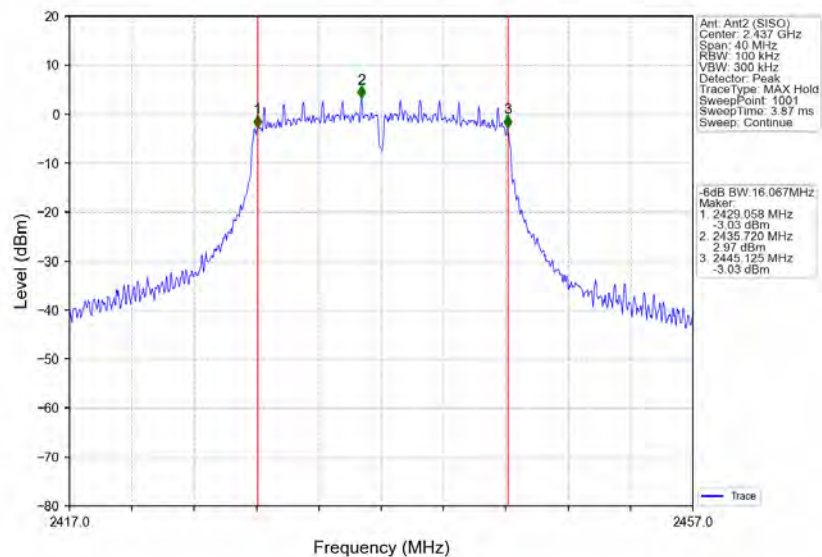
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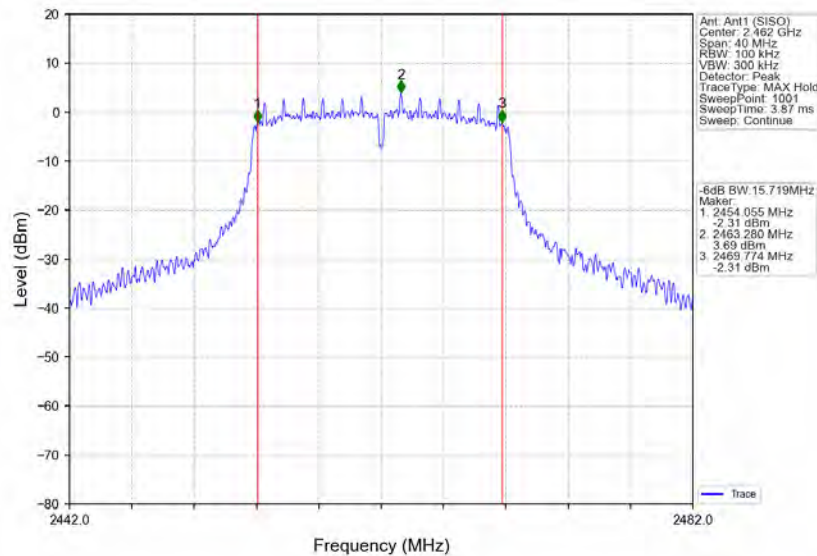
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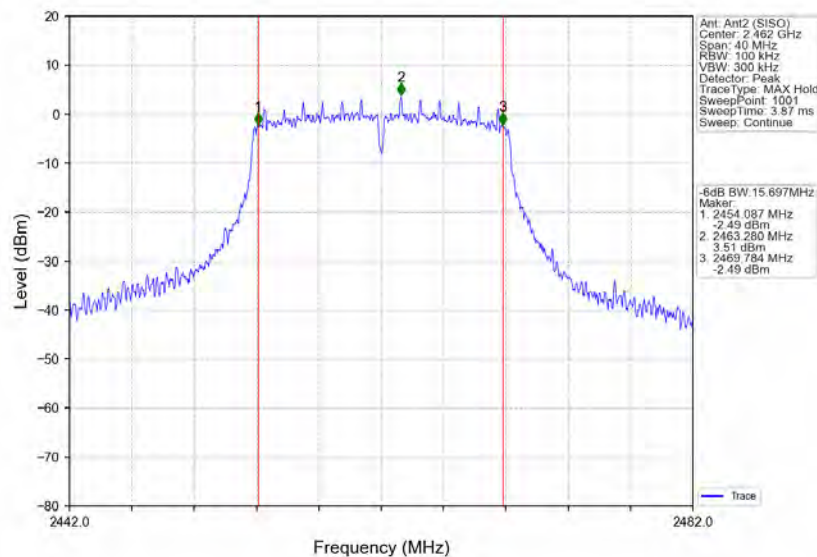
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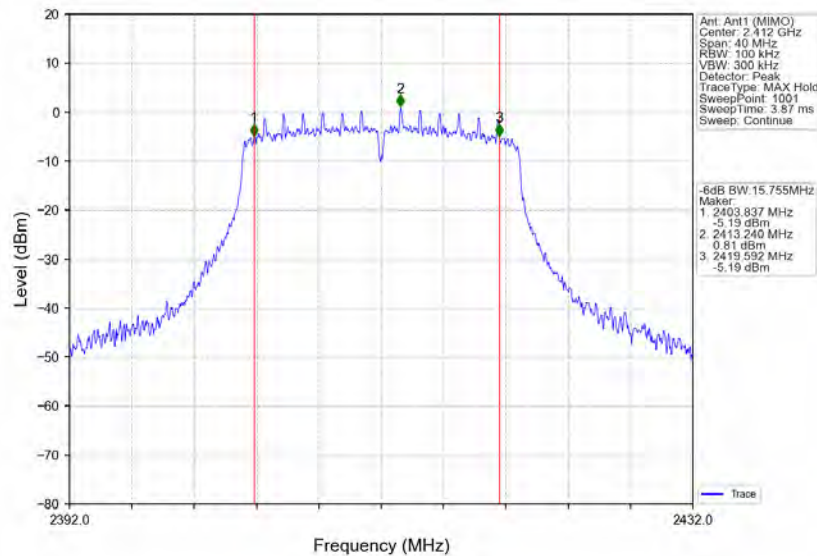
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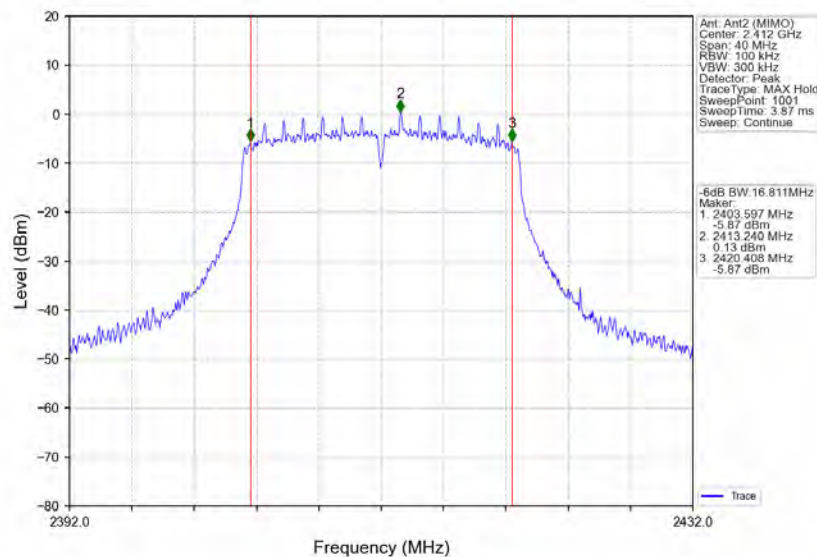
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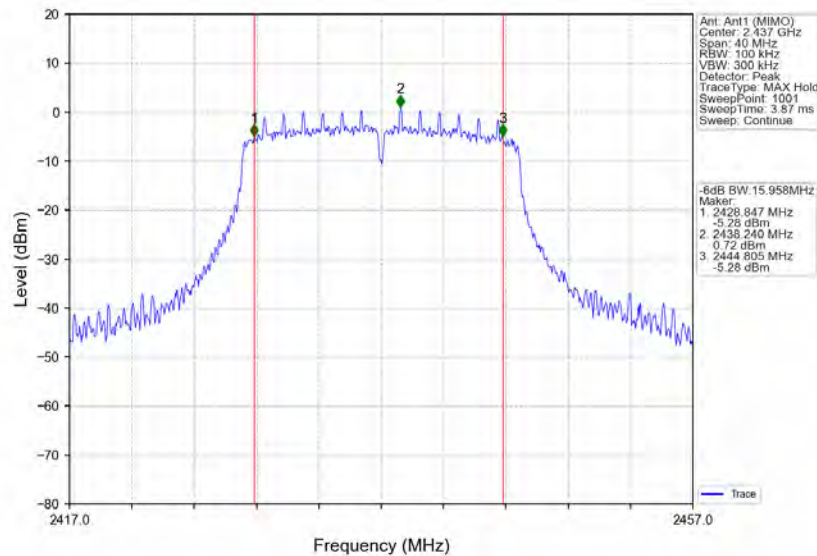
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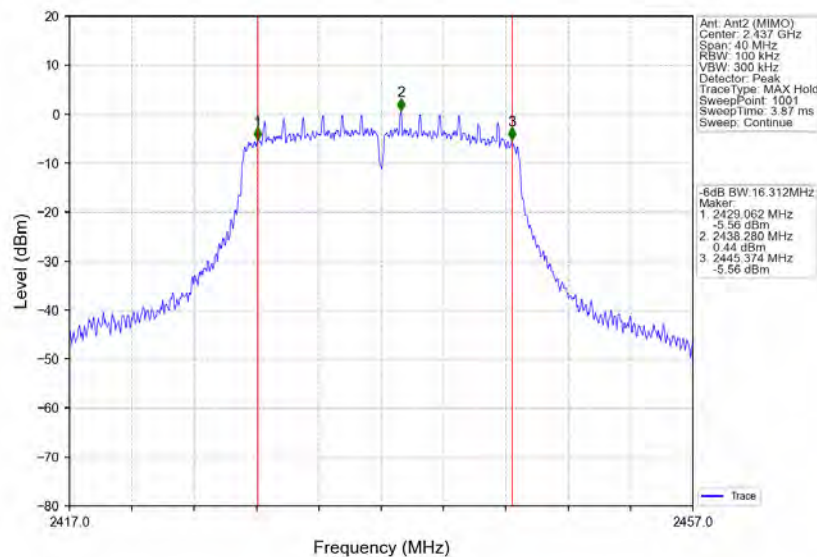
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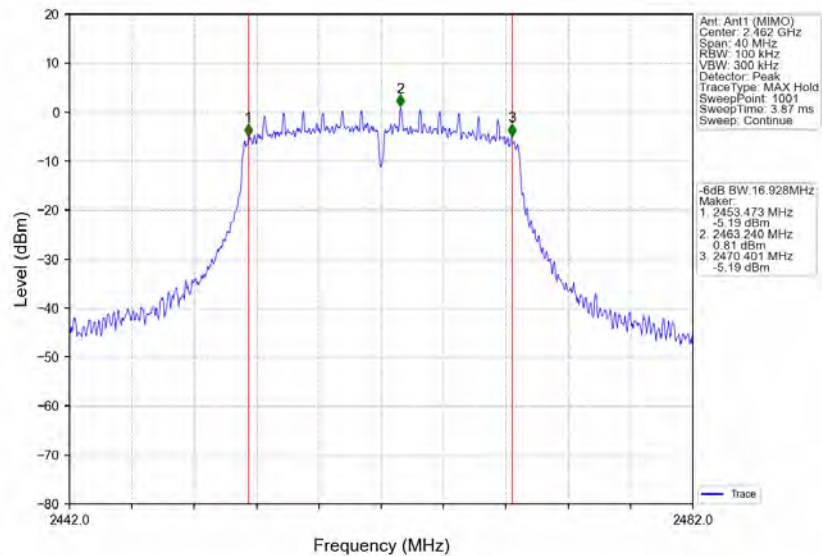
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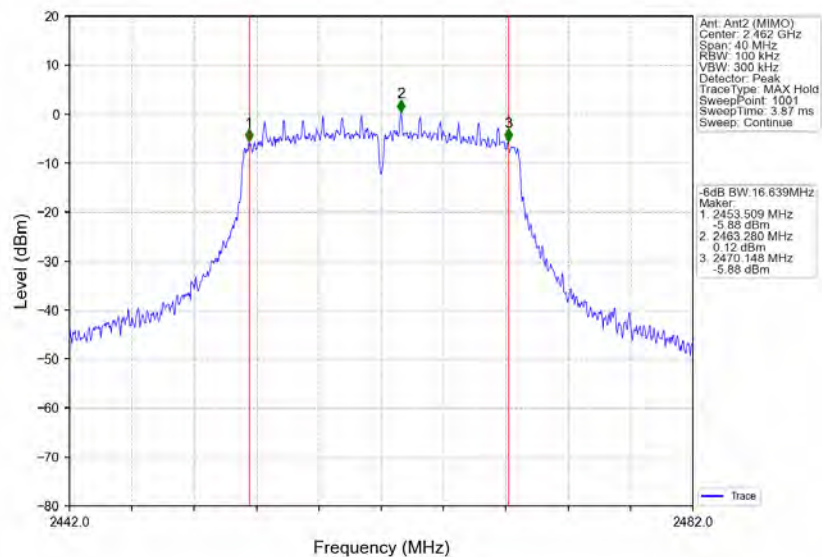
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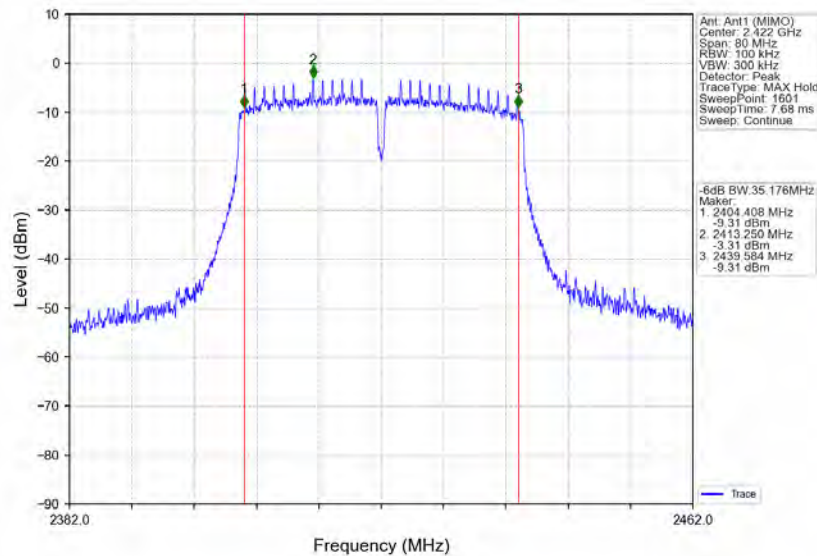
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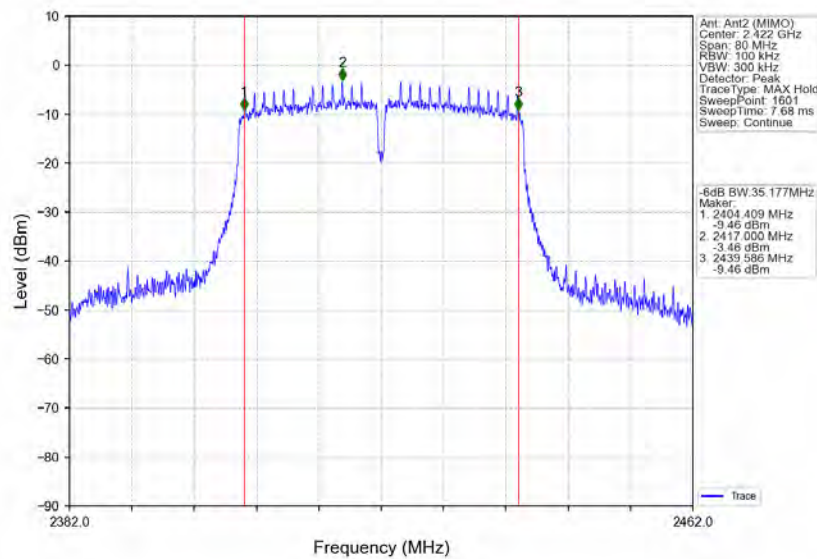
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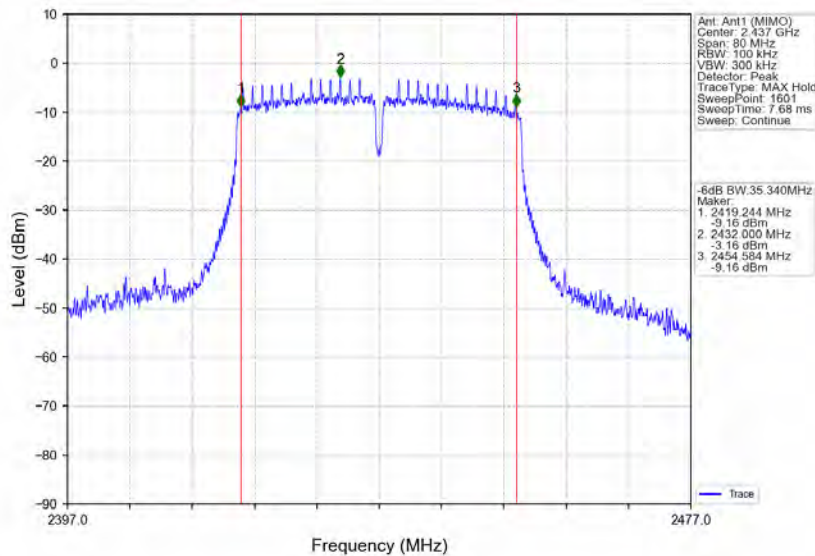
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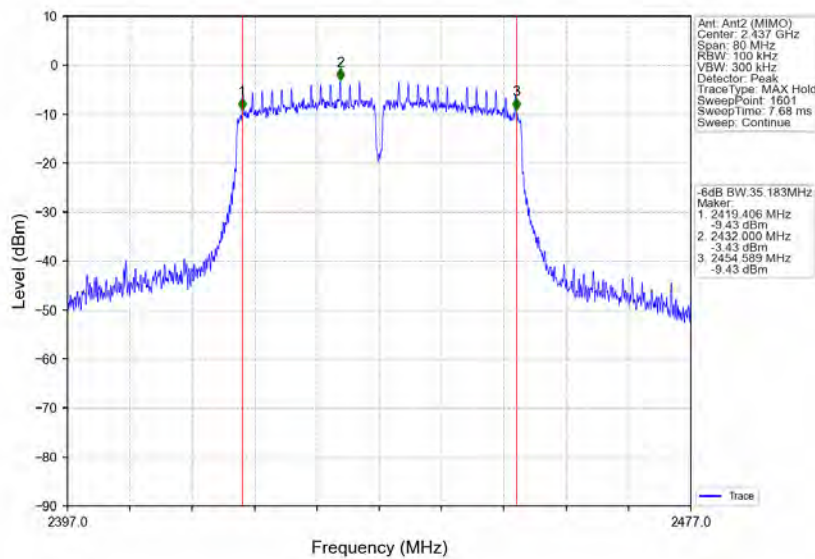
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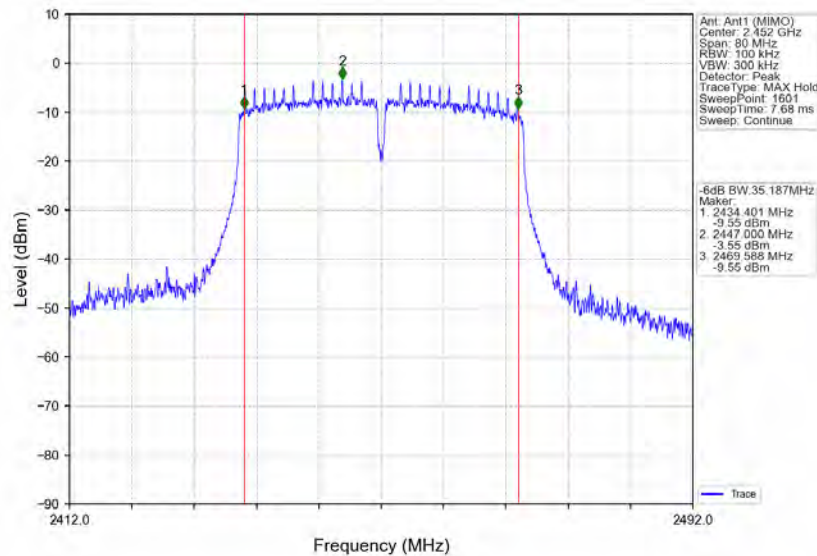
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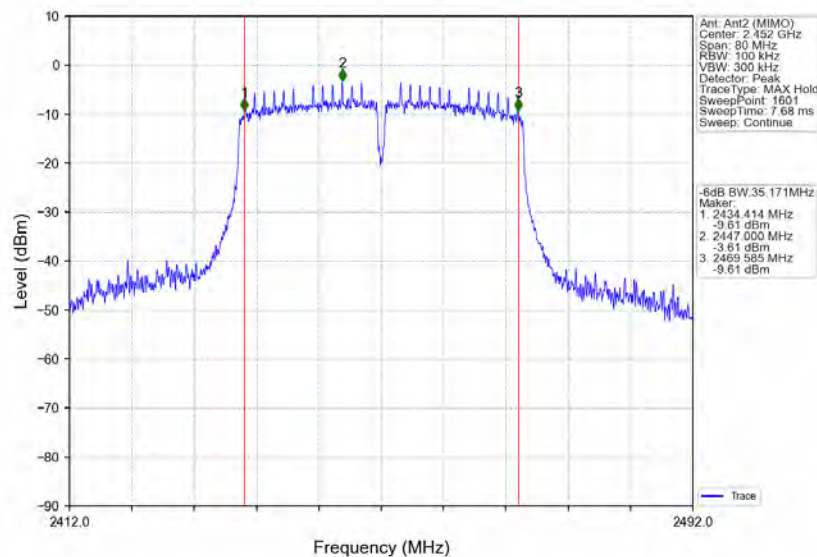
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3. Maximum Conducted Output Power

3.1 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	16.20	15.98	/	<=30	Pass
		2437	16.22	15.92	/	<=30	Pass
		2462	16.23	15.84	/	<=30	Pass
802.11g	SISO	2412	14.27	14.17	/	<=30	Pass
		2437	14.28	13.99	/	<=30	Pass
		2462	14.08	14.06	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.20	10.70	13.97	<=30	Pass
		2437	11.16	10.93	14.06	<=30	Pass
		2462	11.37	10.66	14.04	<=30	Pass
802.11n (HT40)	MIMO	2422	10.22	10.05	13.15	<=30	Pass
		2437	10.45	10.09	13.28	<=30	Pass
		2452	9.94	9.91	12.94	<=30	Pass

Note1: Antenna Gain: Ant1: 0.91dBi; Ant2: 1.18dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



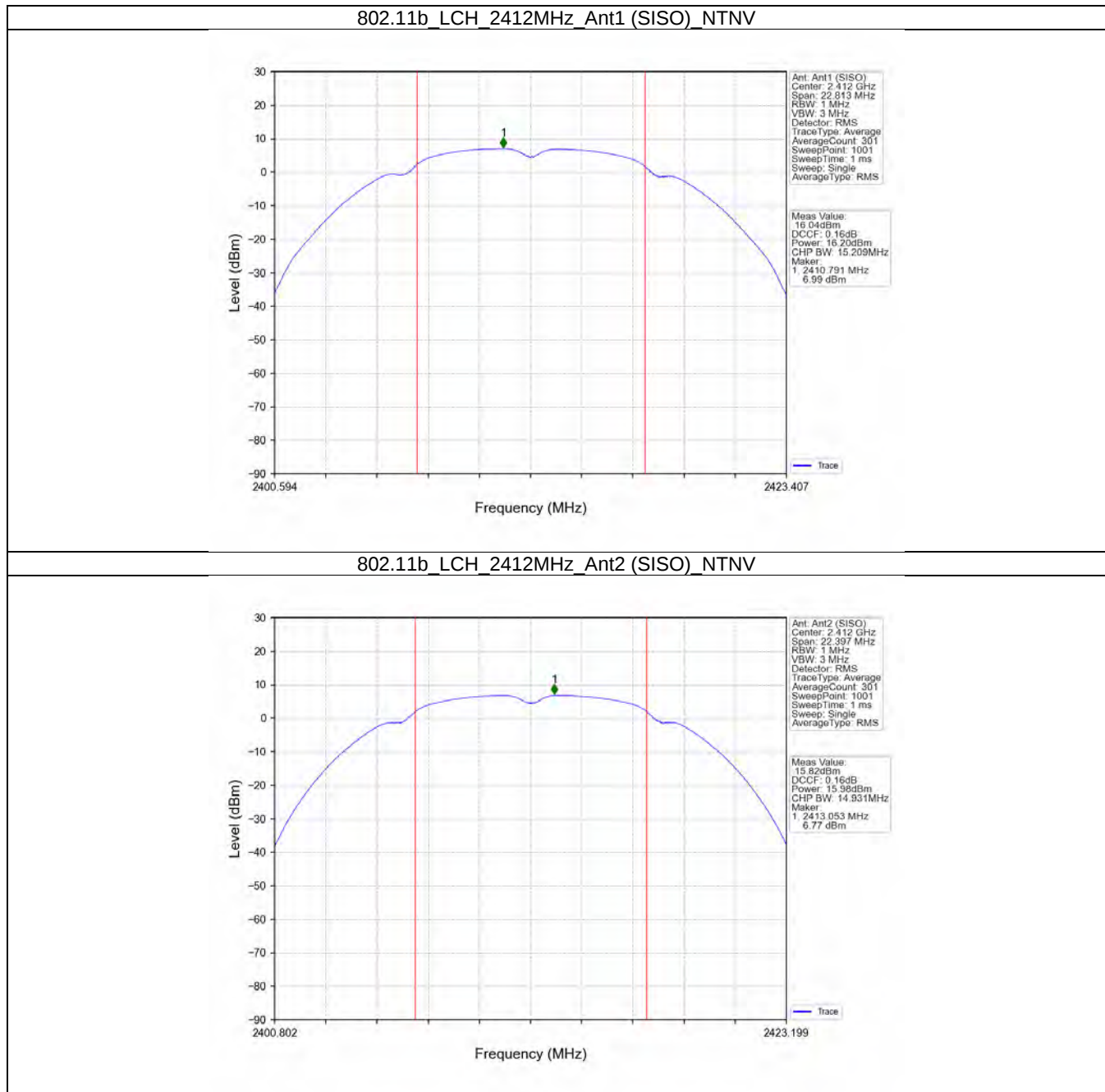
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3.1.2 Test Graph



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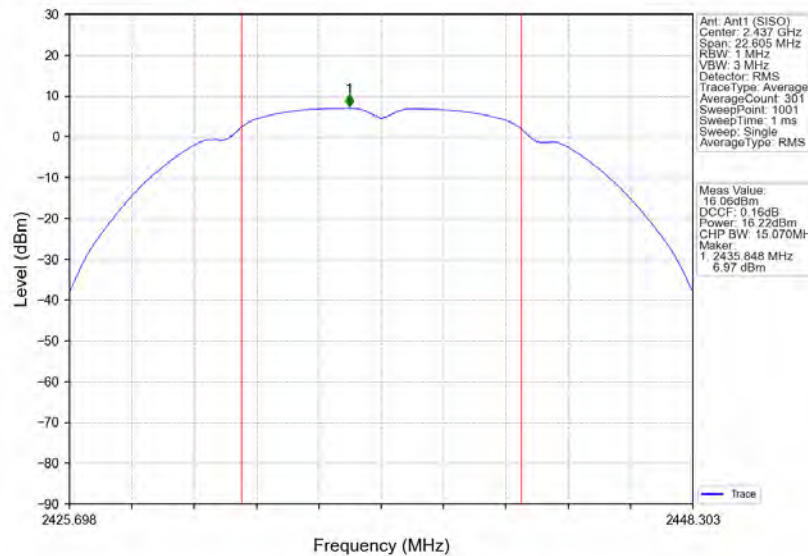
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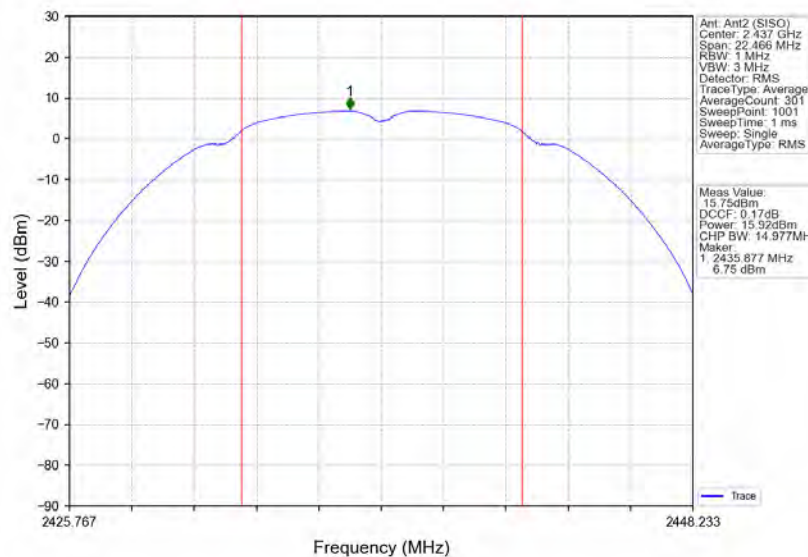
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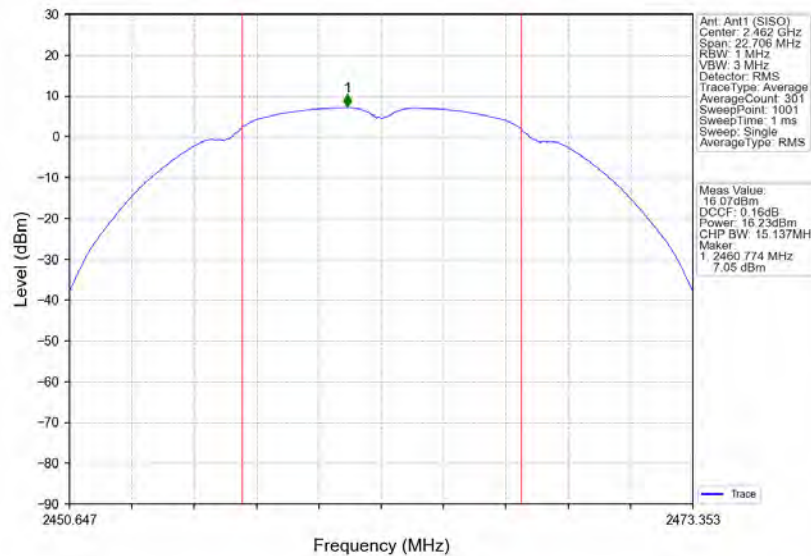
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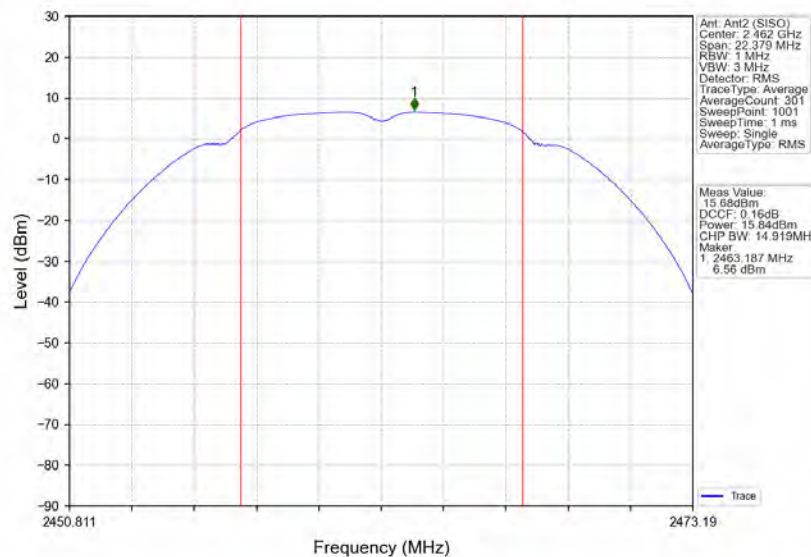
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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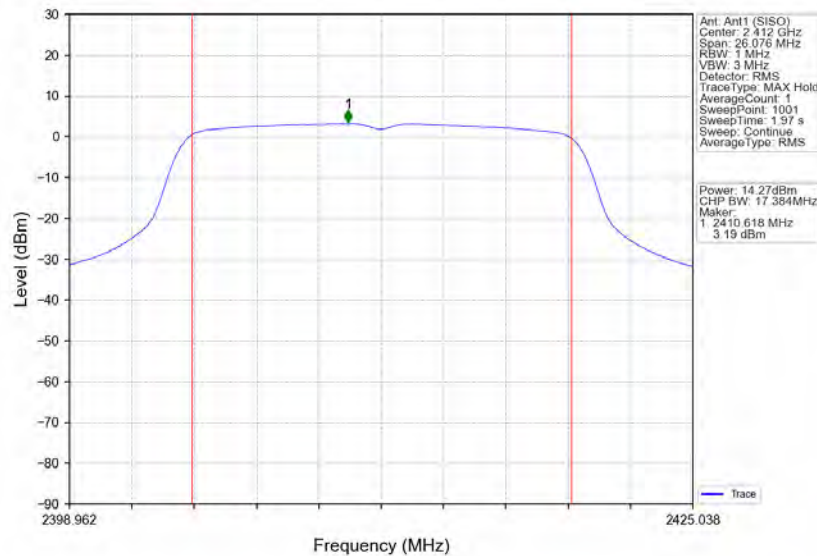
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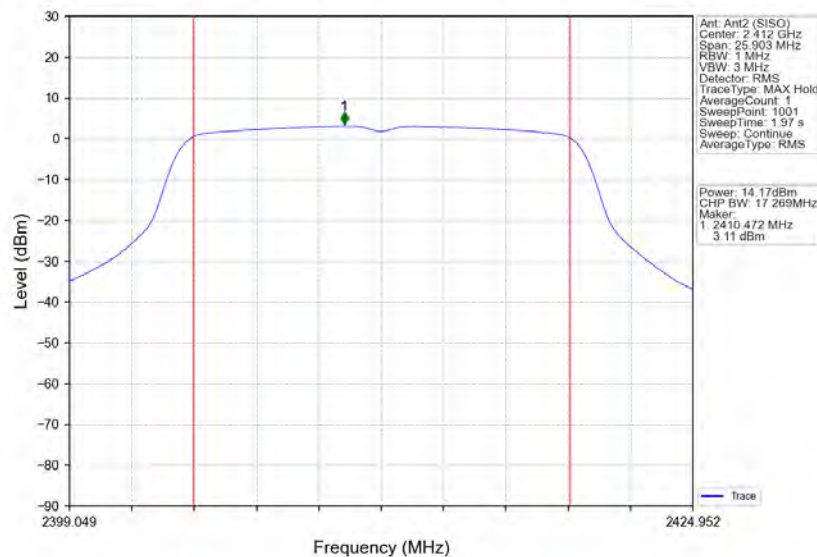
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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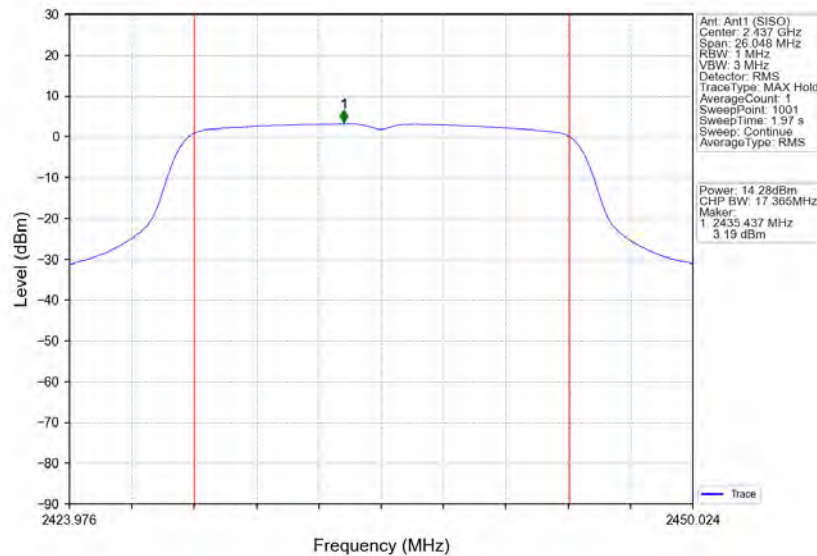
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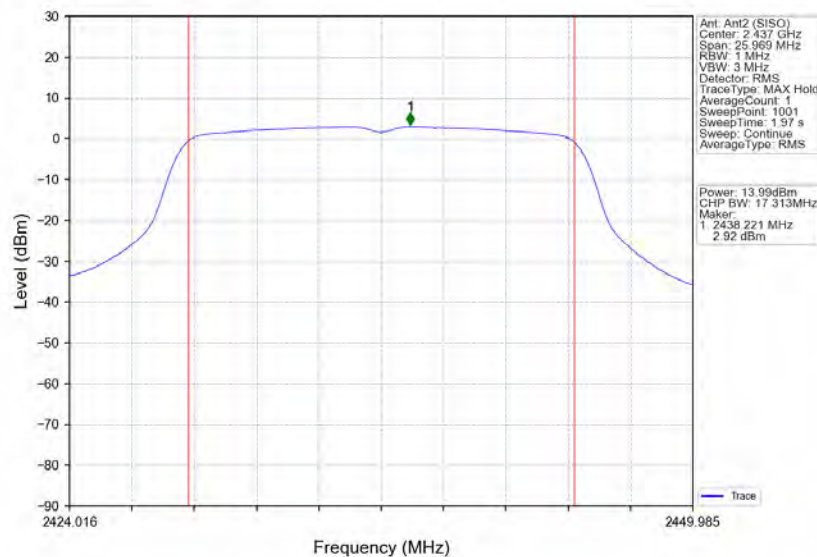
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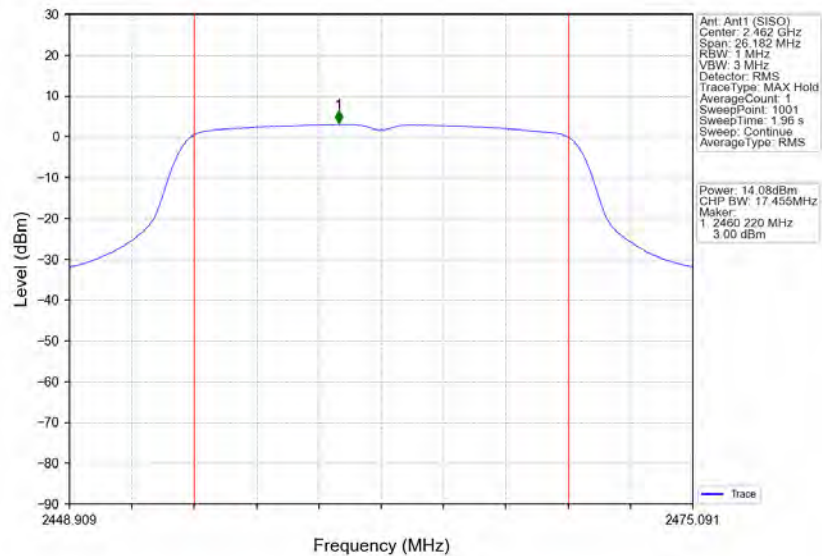
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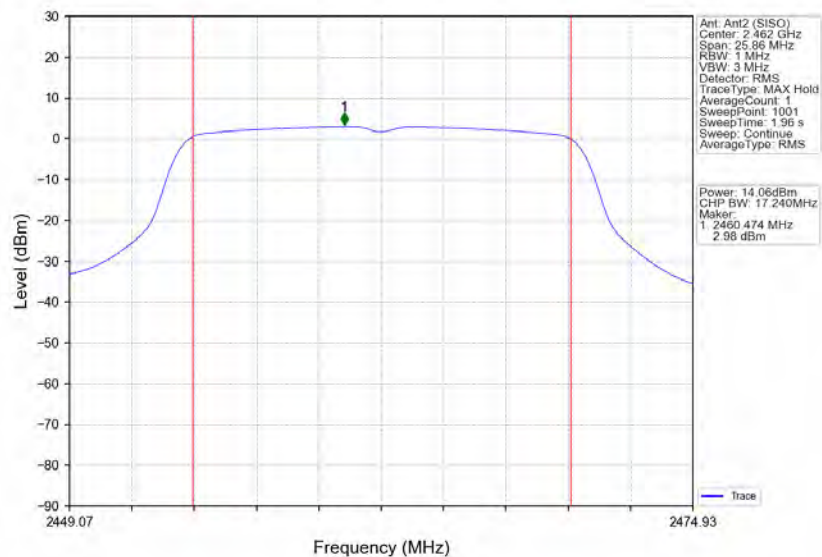
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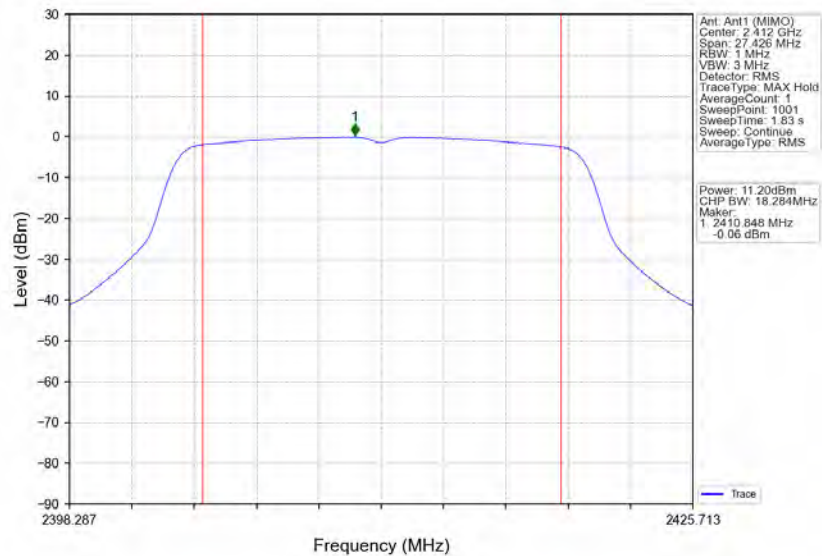
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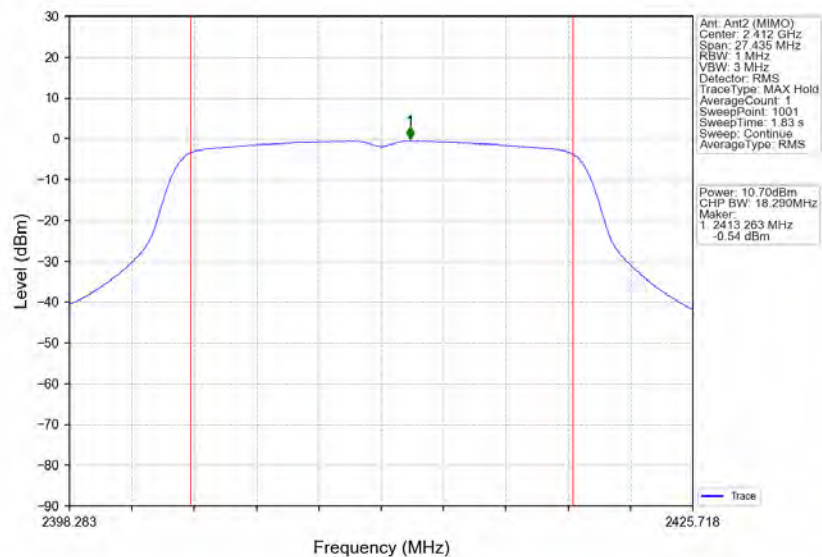
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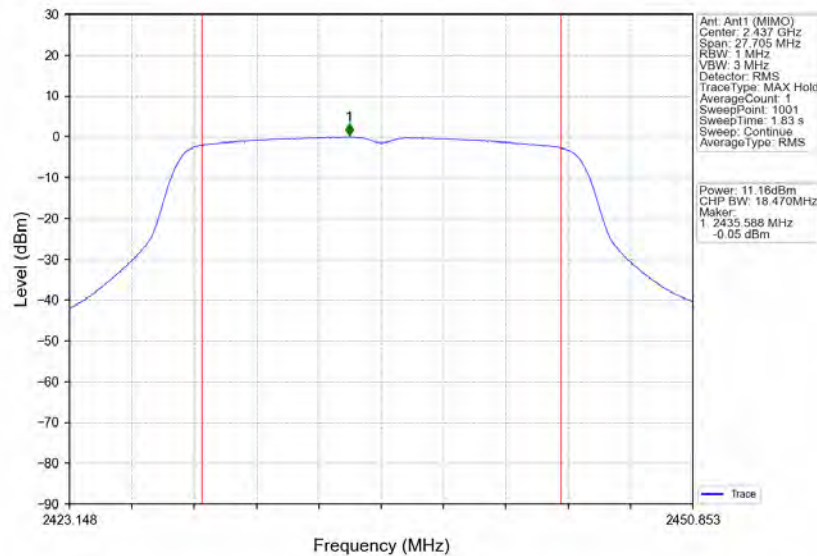
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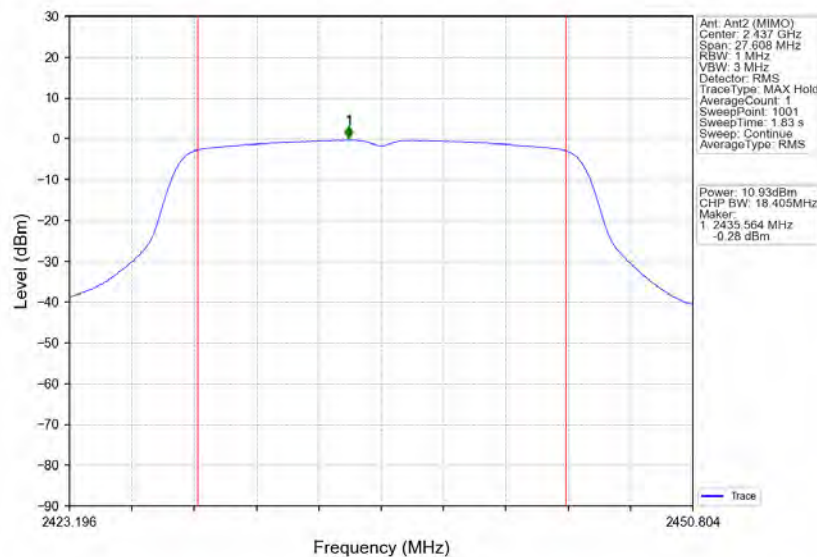
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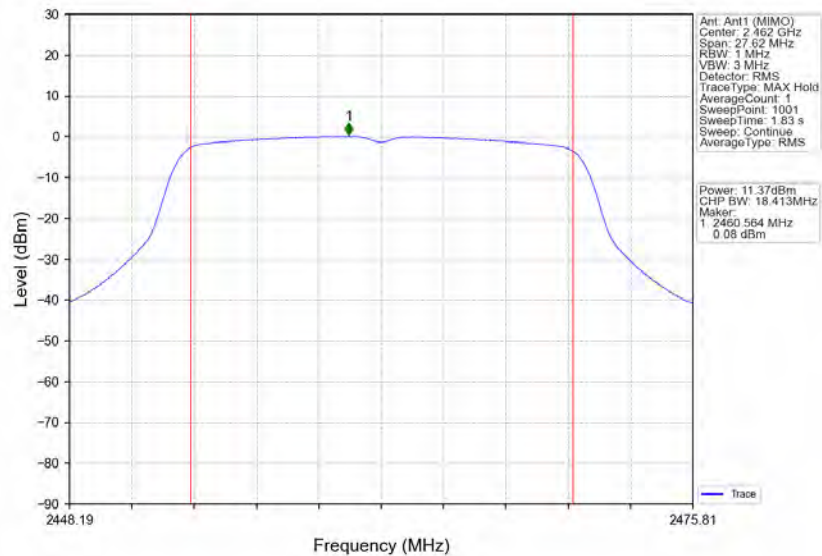
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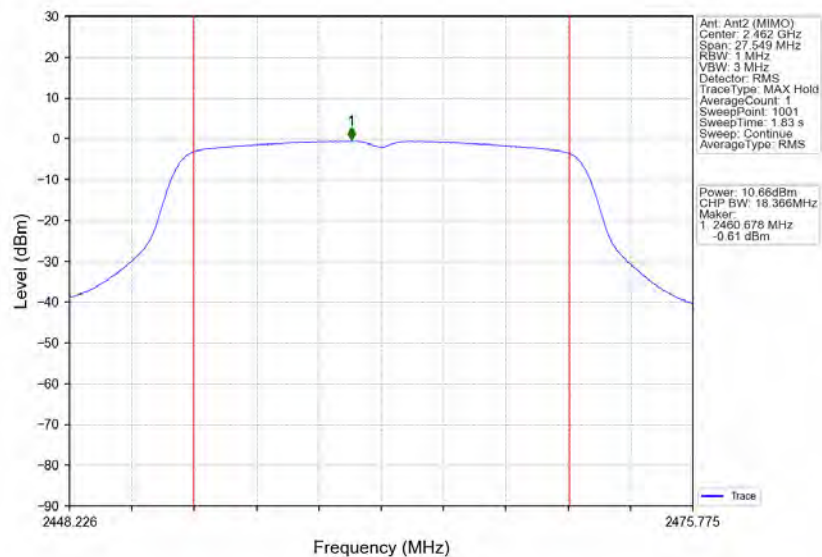
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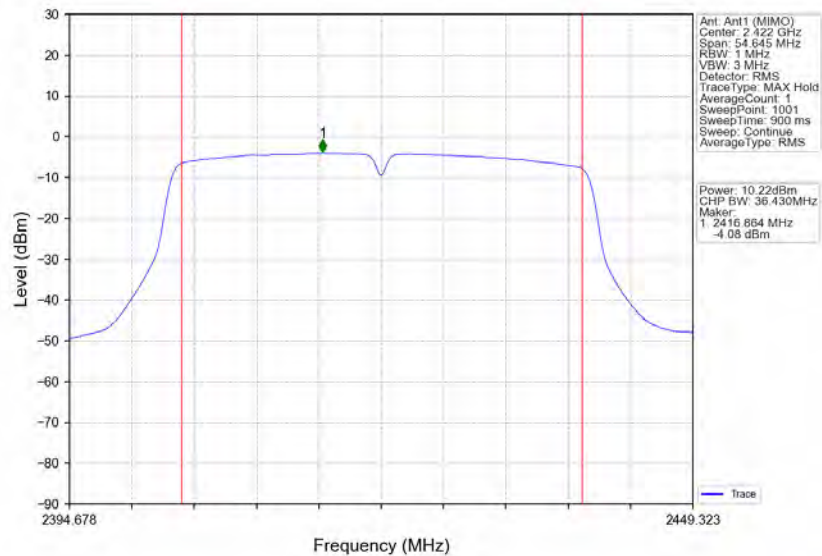
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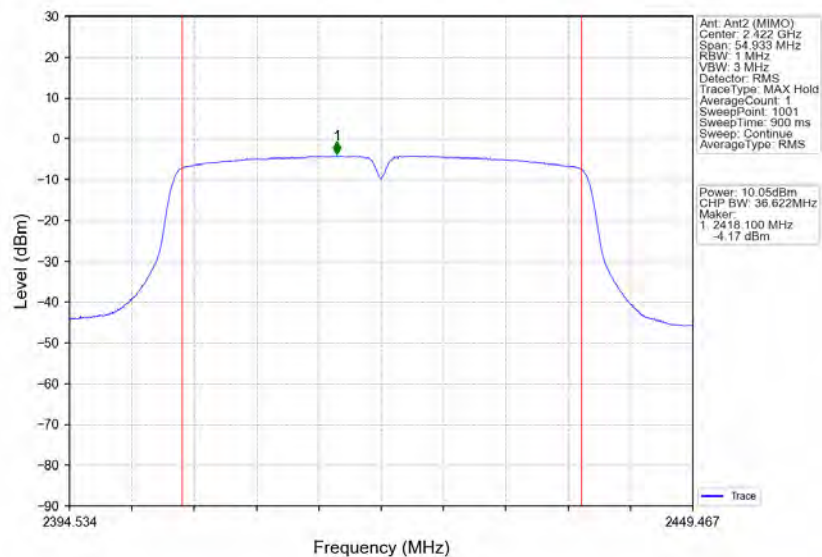
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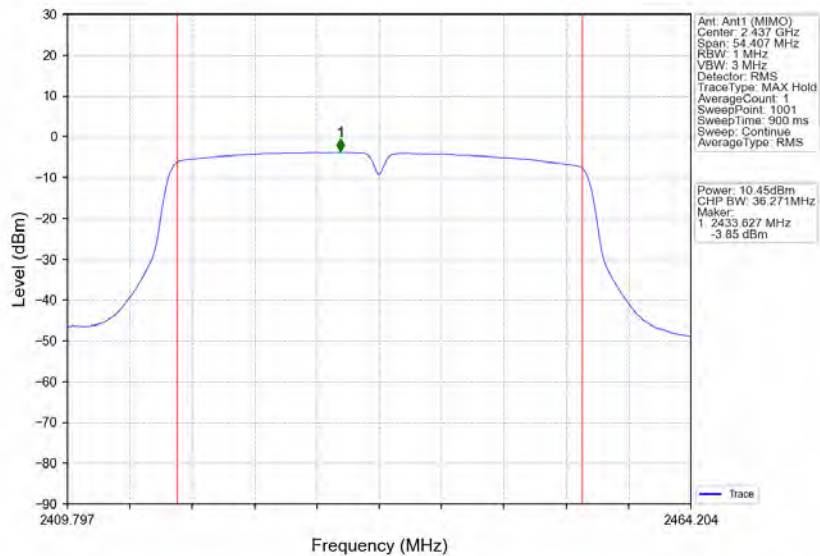
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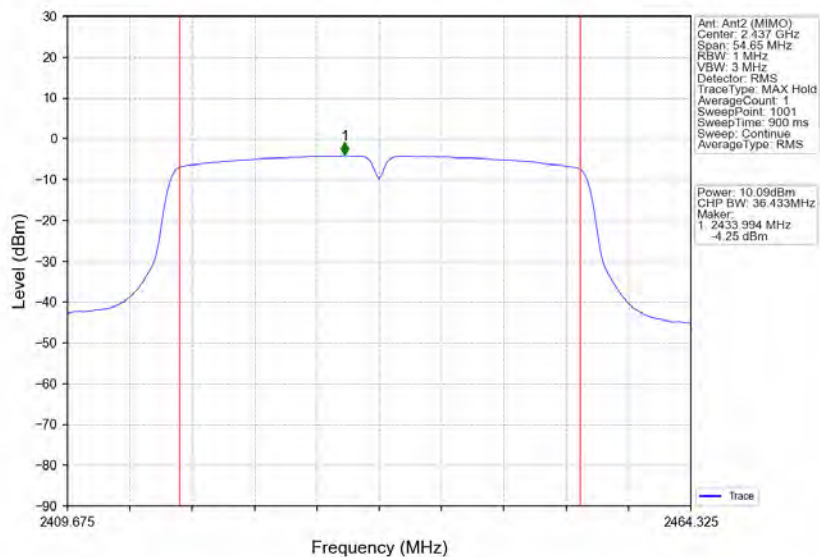
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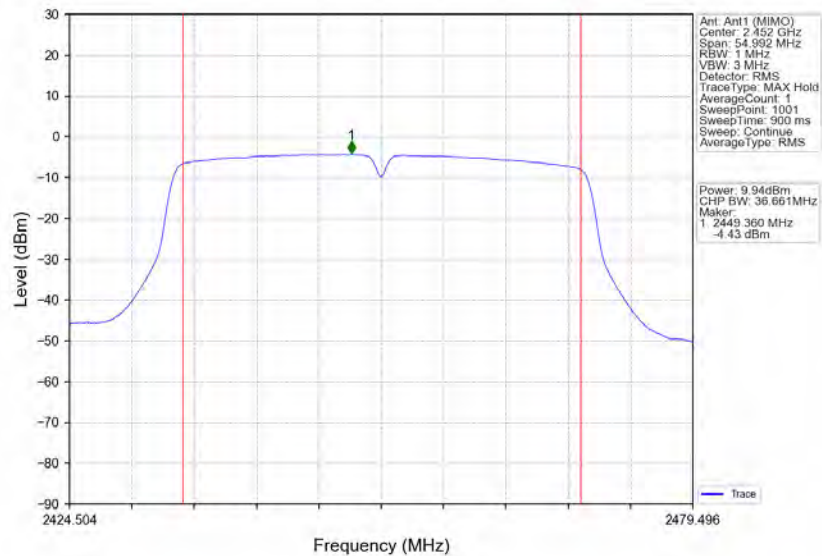
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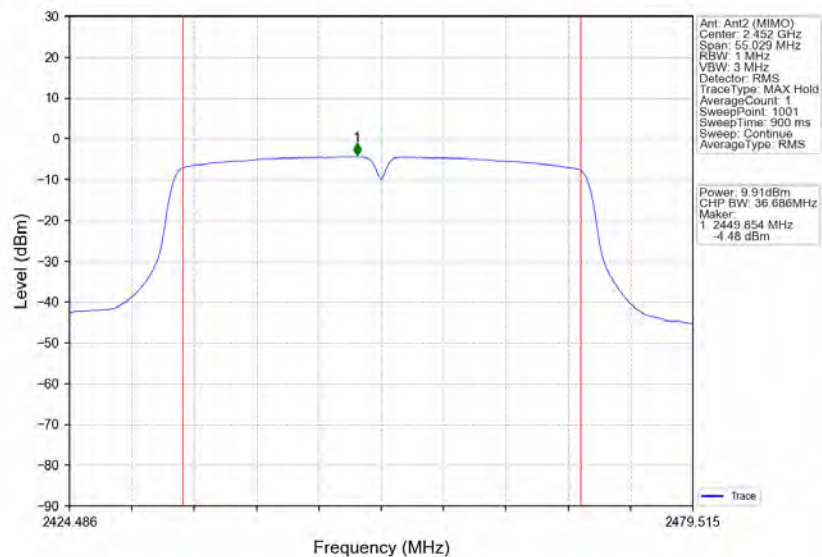
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4. Maximum Power Spectral Density

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	-7.74	-7.74	/	<=8	Pass
		2437	-7.49	-7.96	/	<=8	Pass
		2462	-7.30	-7.67	/	<=8	Pass
802.11g	SISO	2412	-9.99	-11.50	/	<=8	Pass
		2437	-10.19	-10.82	/	<=8	Pass
		2462	-11.20	-11.66	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.72	-14.10	-12.93	<=8	Pass
		2437	-13.41	-15.07	-11.66	<=8	Pass
		2462	-14.64	-14.29	-12.00	<=8	Pass
802.11n (HT40)	MIMO	2422	-18.64	-18.71	-15.99	<=8	Pass
		2437	-18.49	-18.31	-15.39	<=8	Pass
		2452	-19.00	-18.87	-16.23	<=8	Pass

Note1: Antenna Gain: Ant1: 0.91dBi; Ant2: 1.18dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



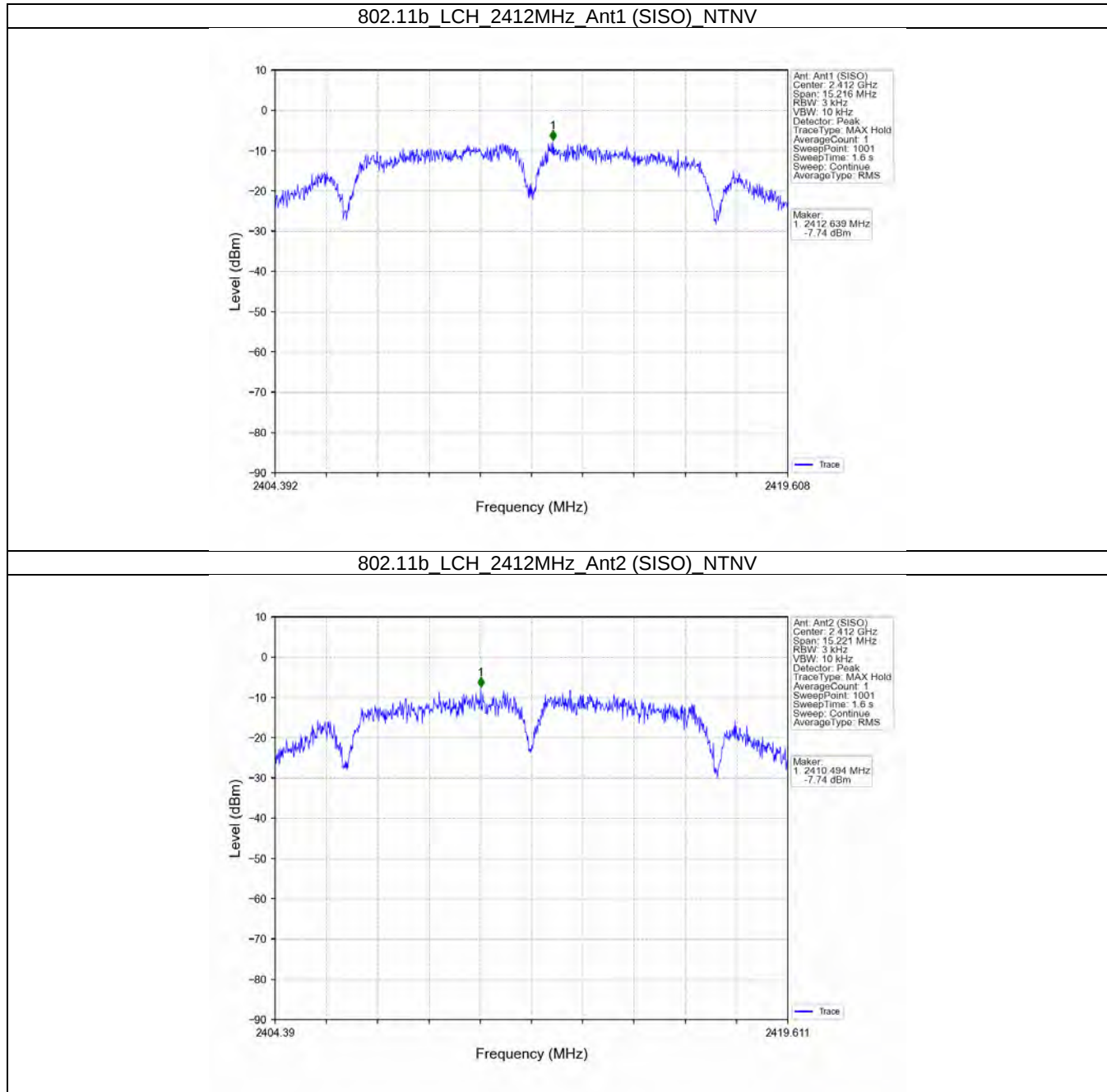
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4.1.2 Test Graph



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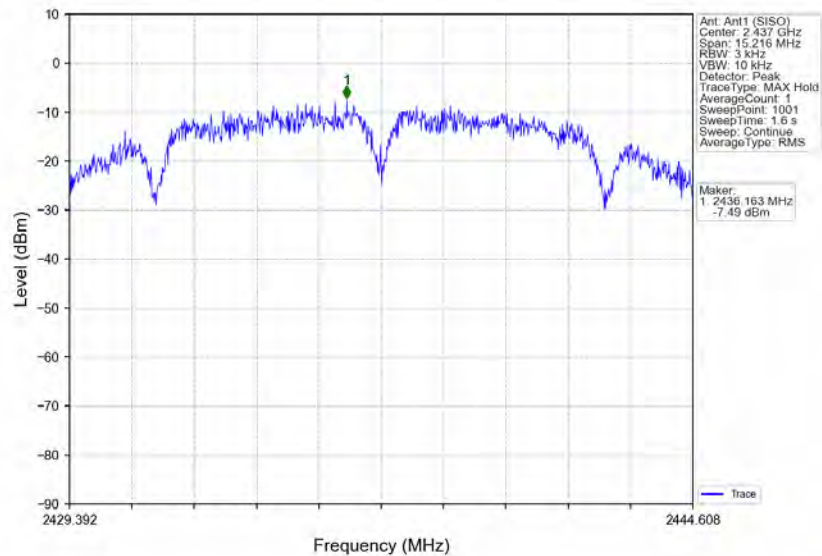
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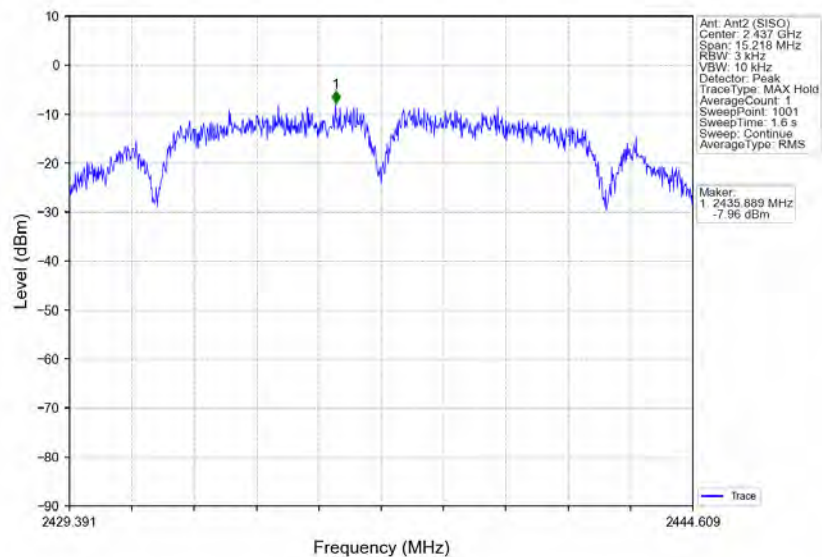
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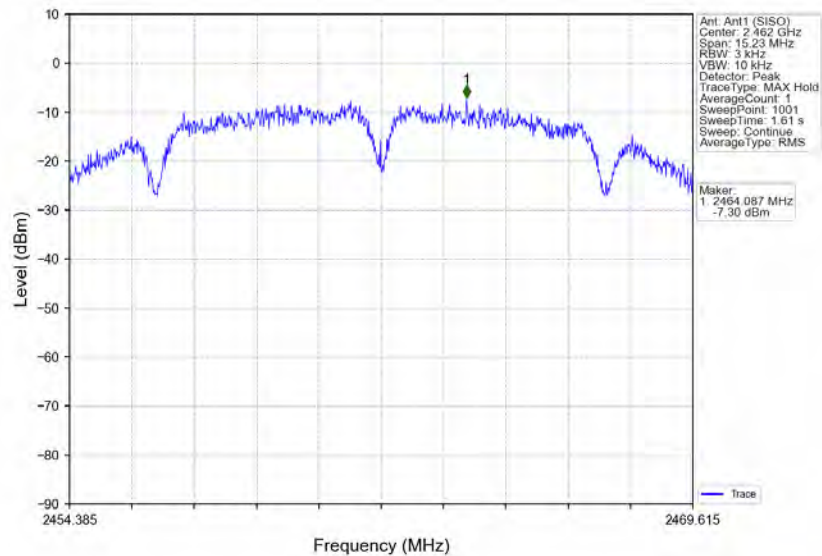
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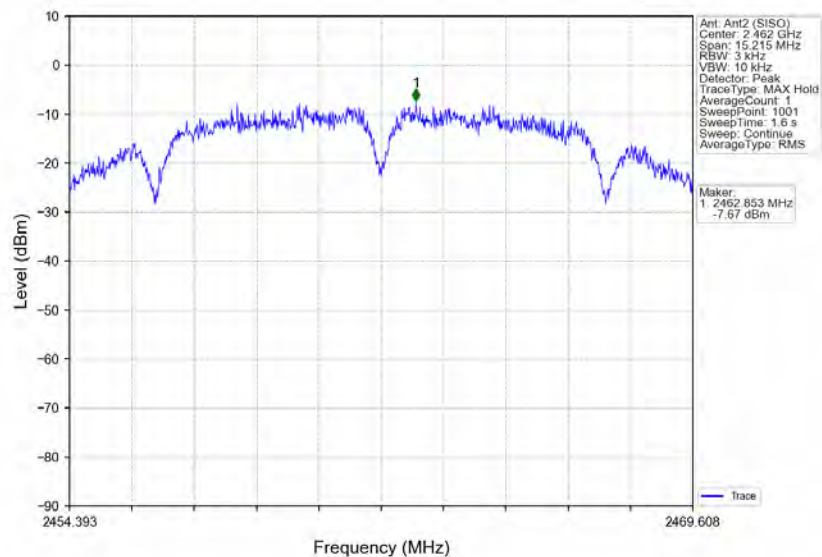
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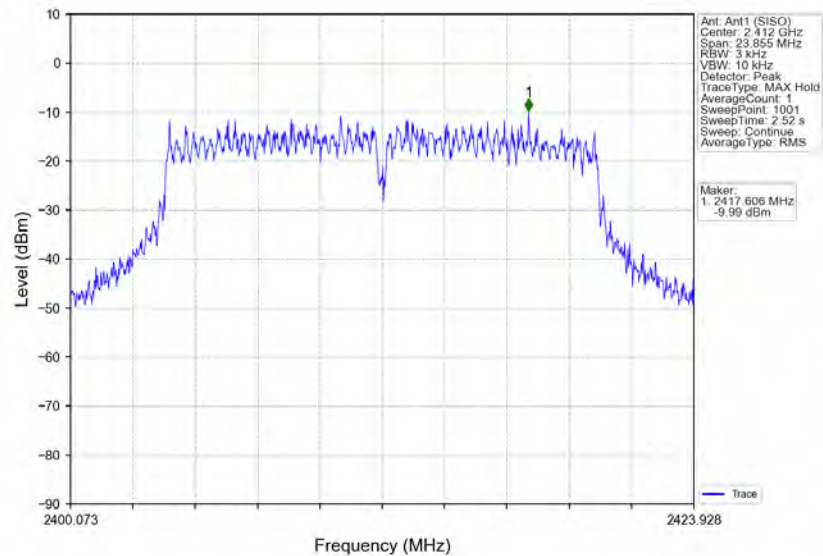
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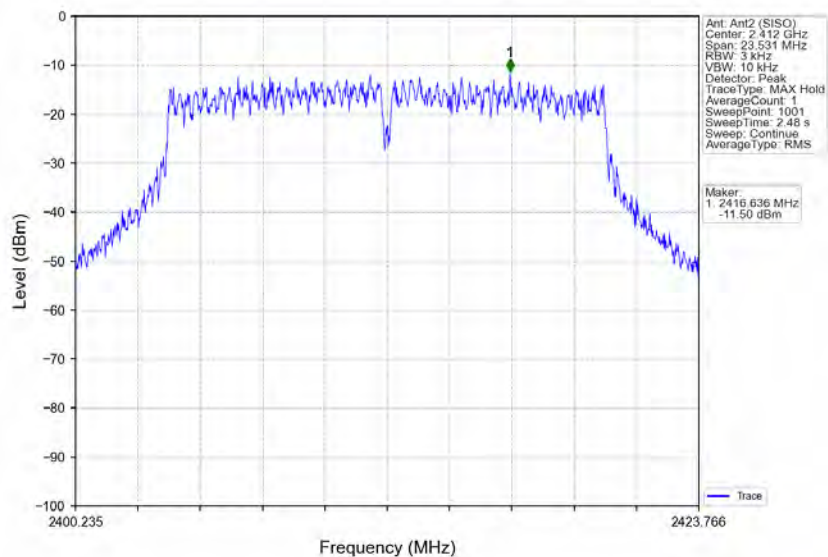
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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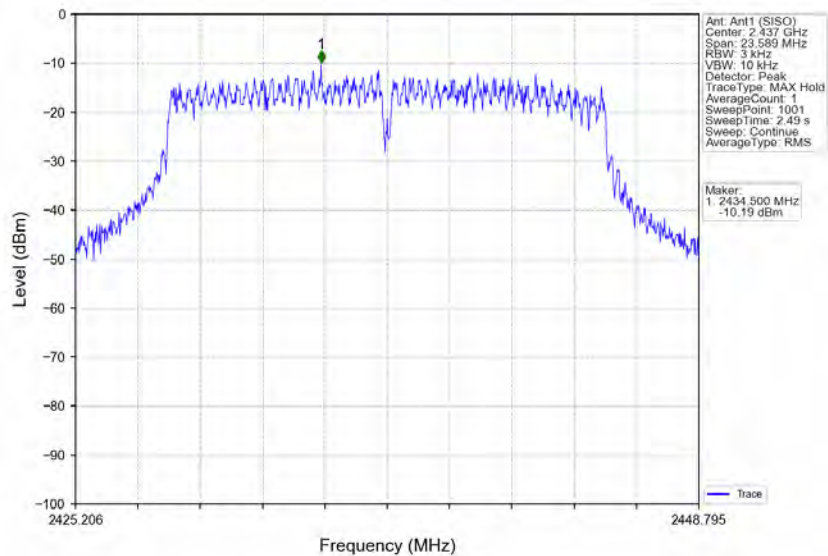
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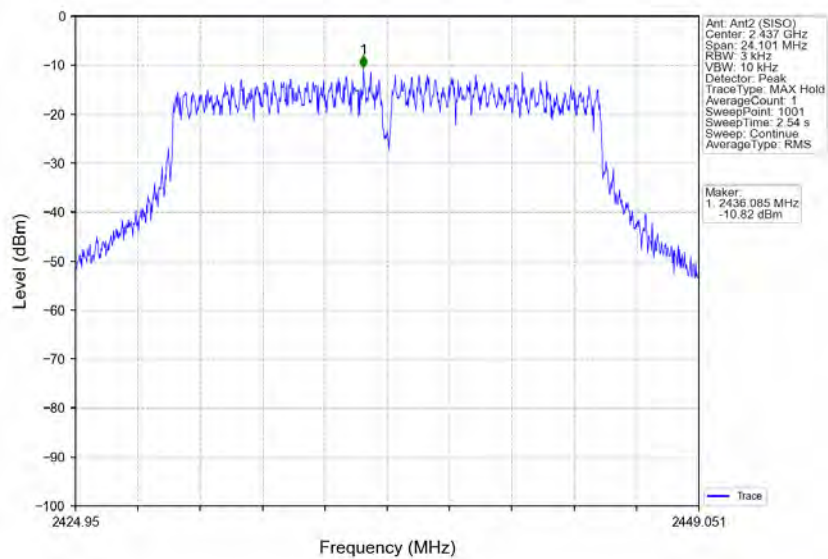
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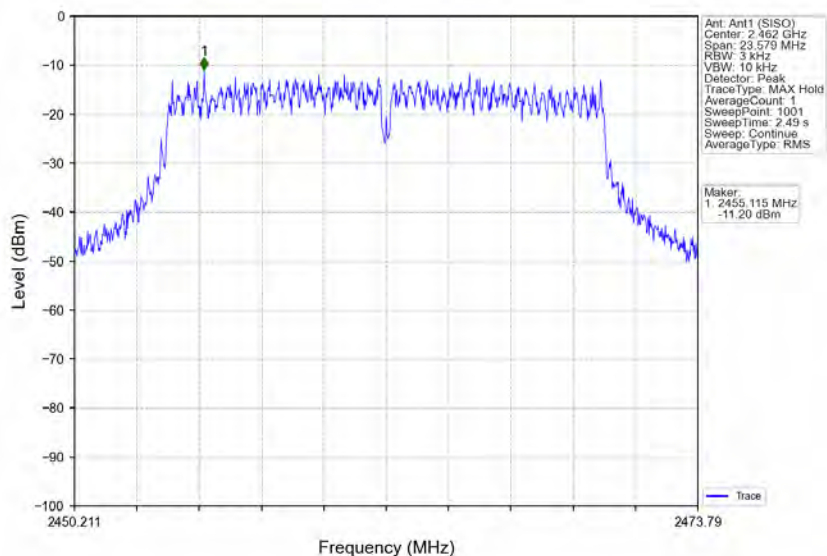
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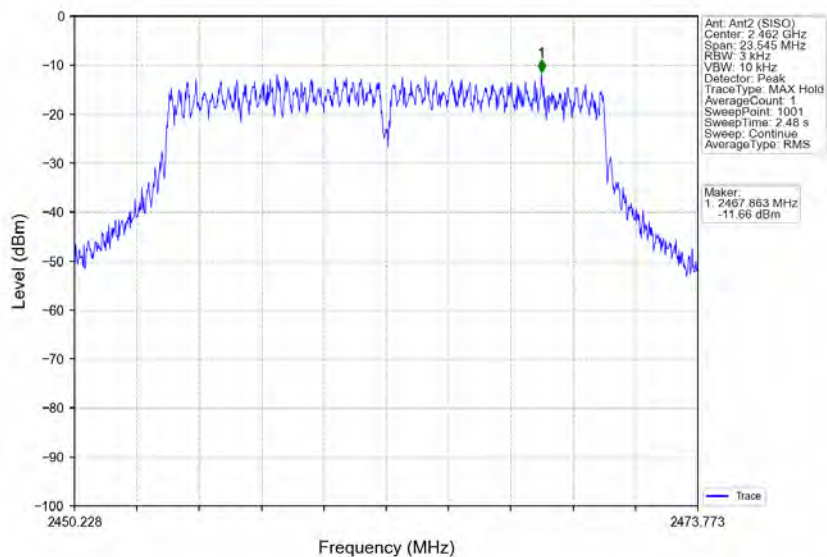
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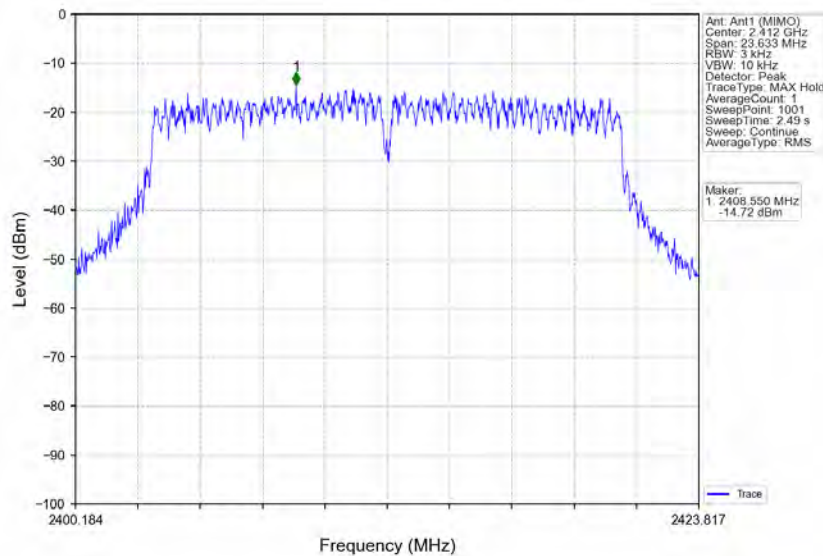
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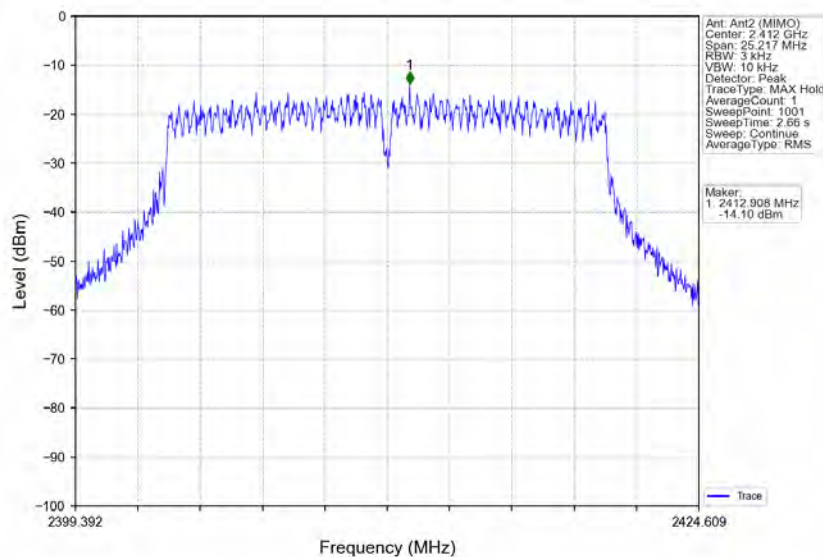
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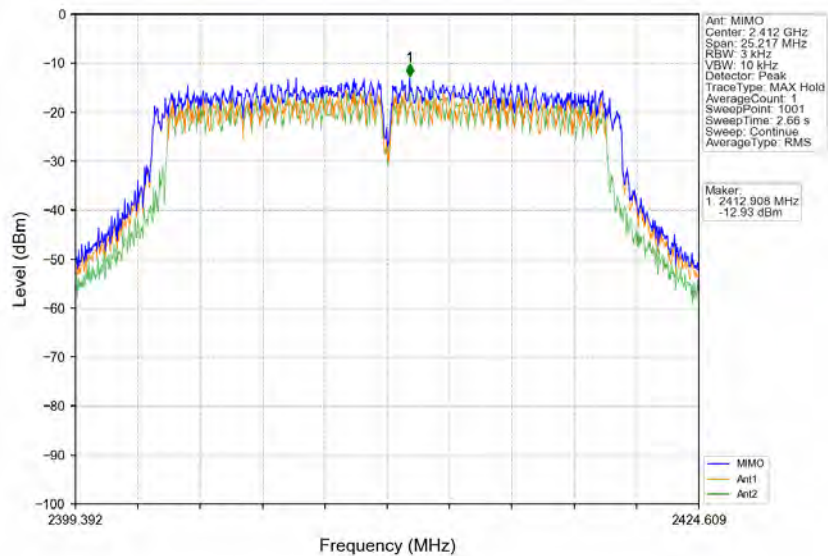
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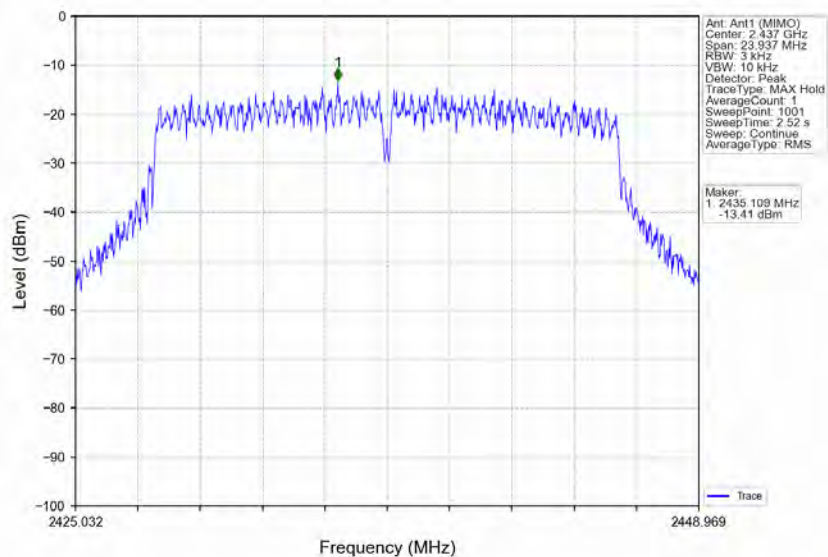
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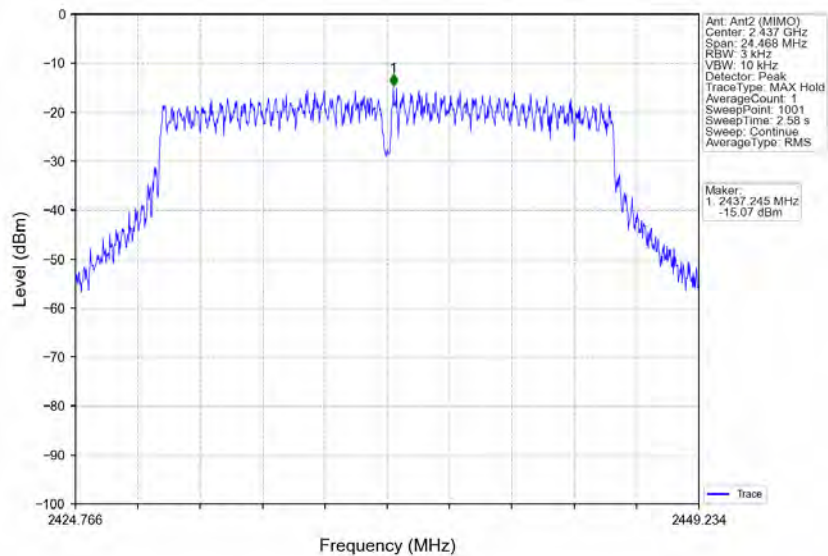
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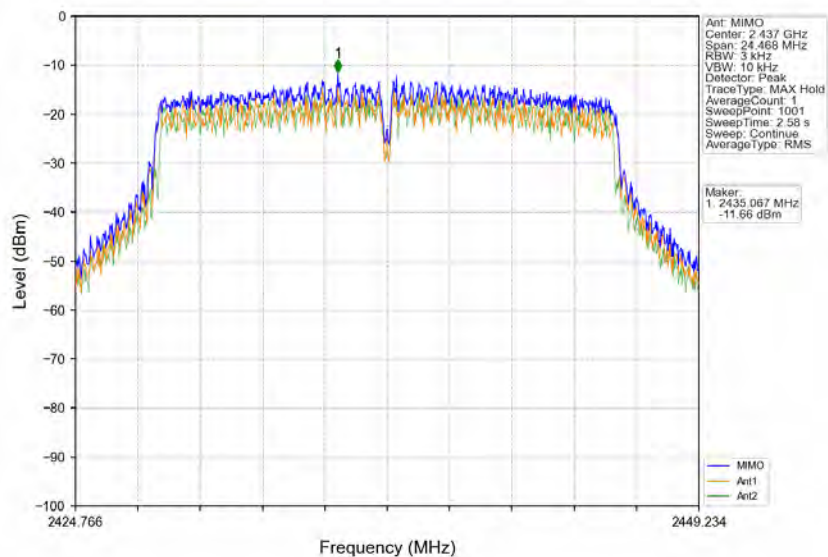
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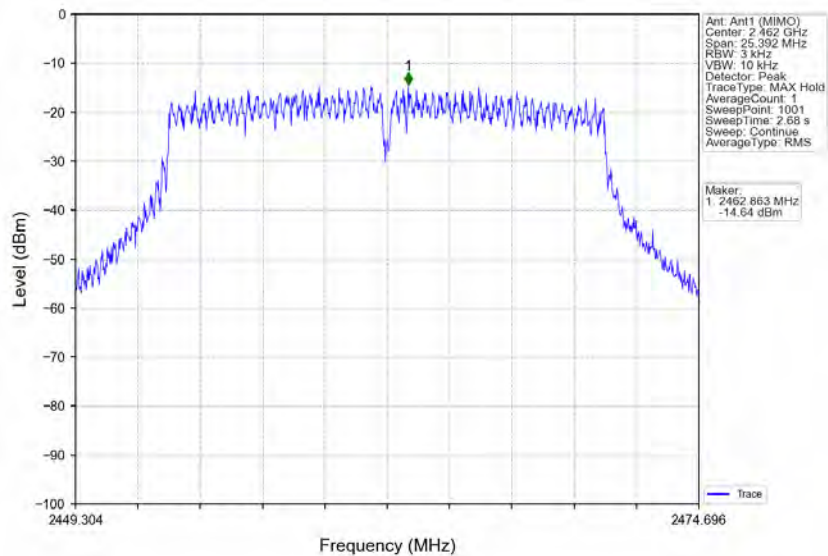
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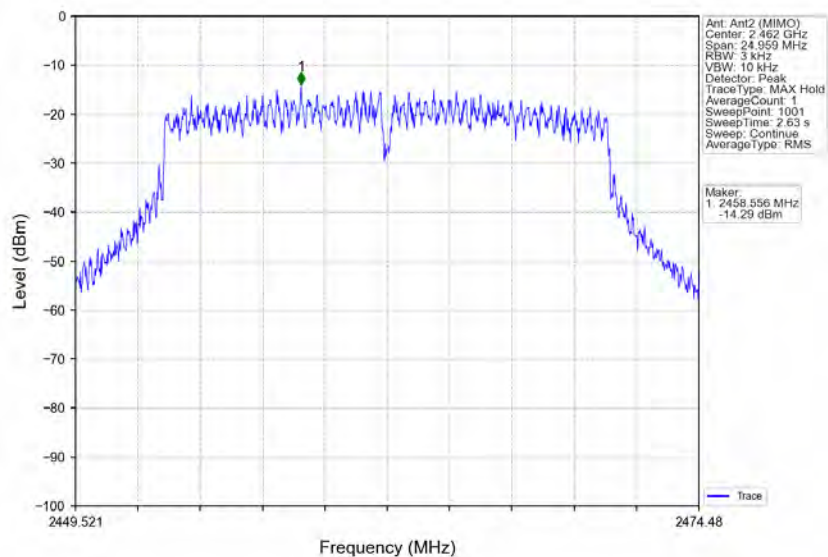
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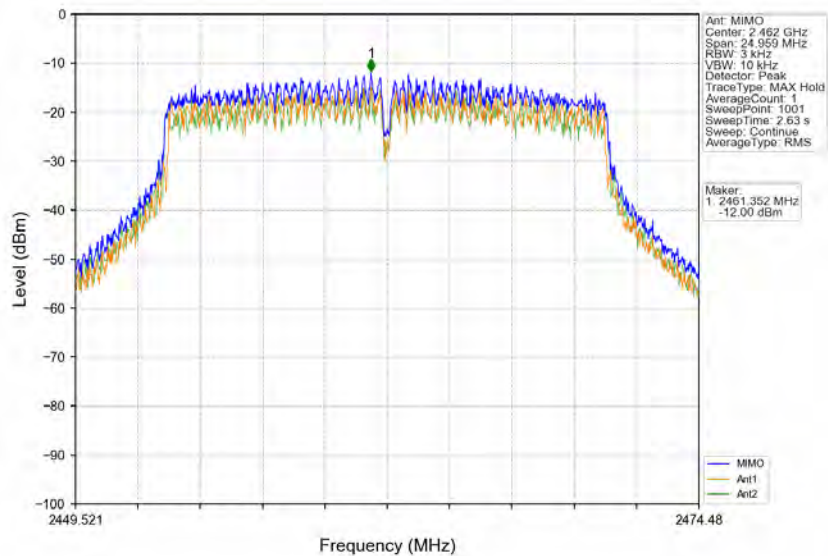
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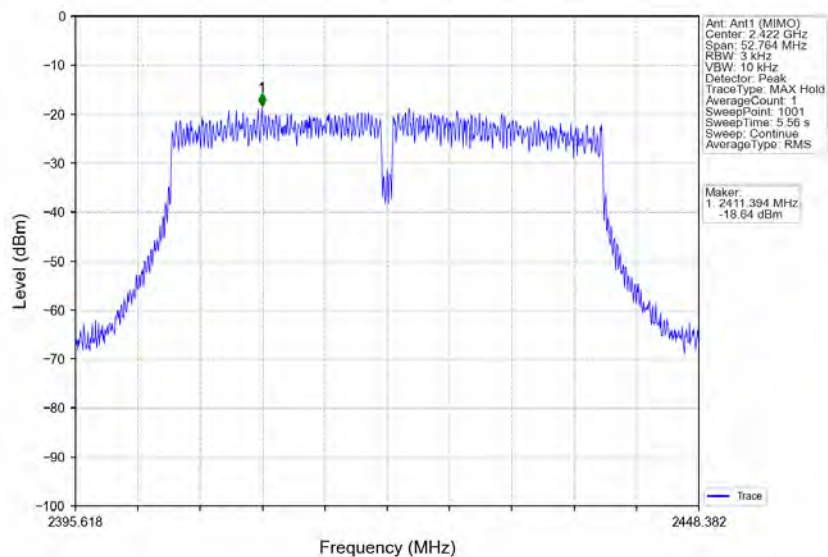
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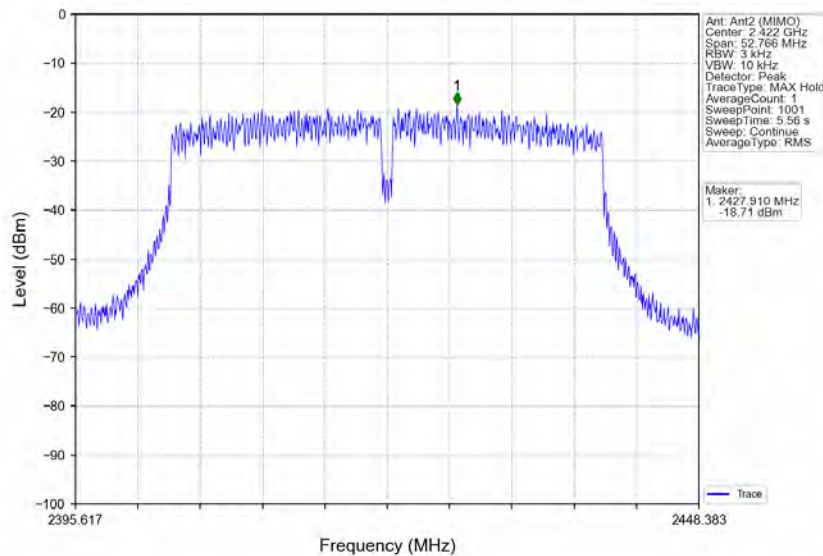
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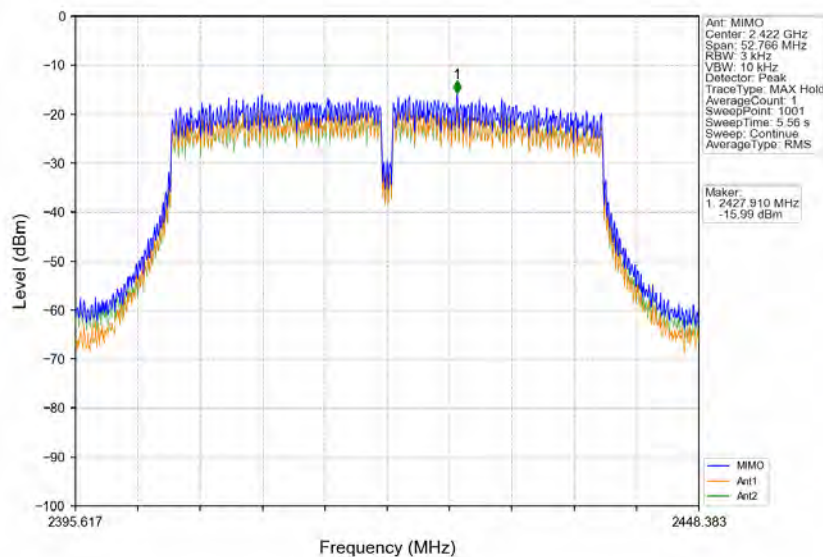
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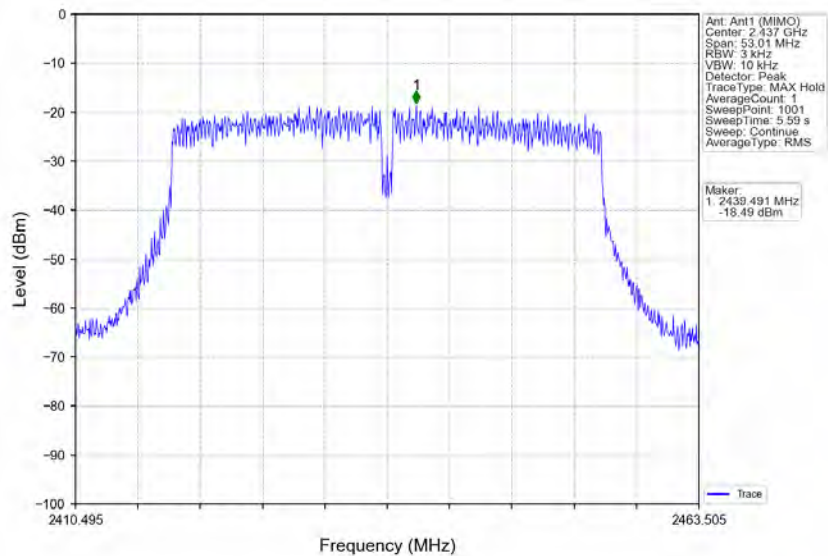
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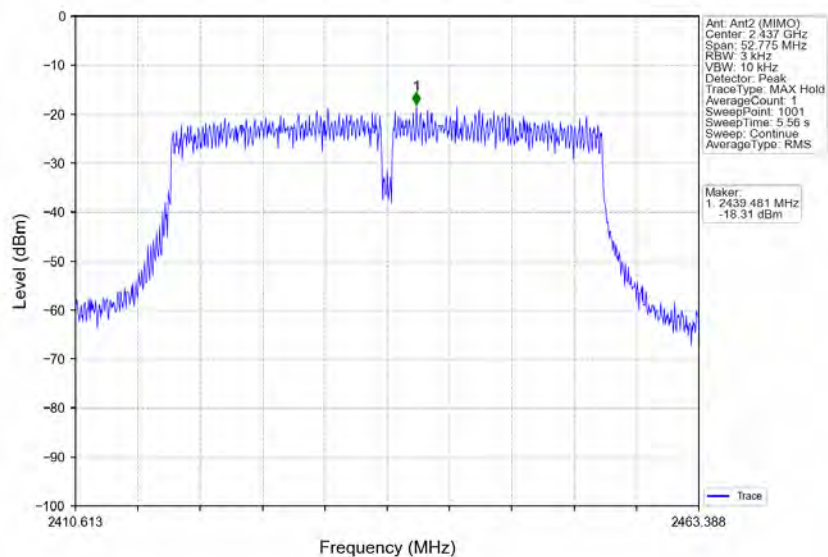
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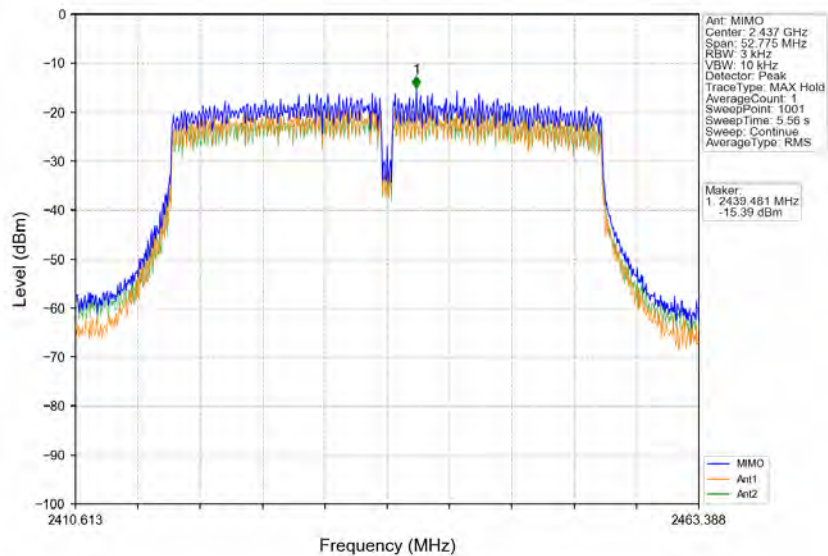
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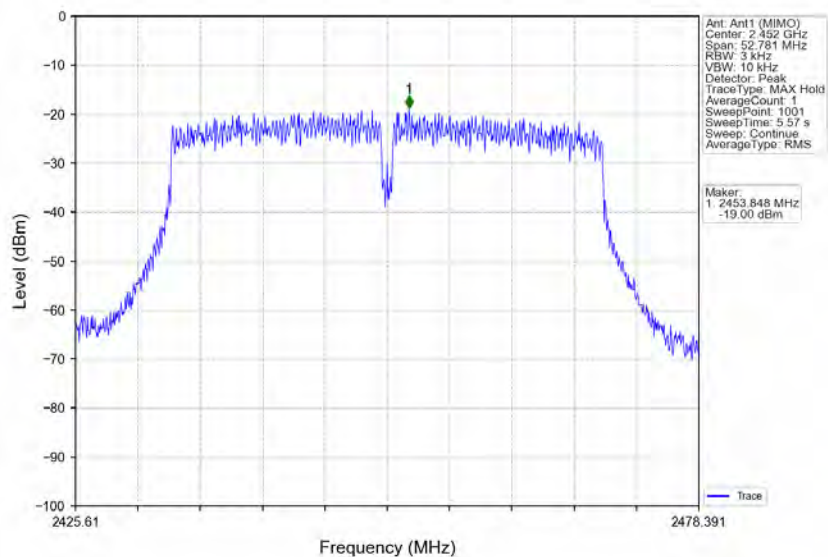
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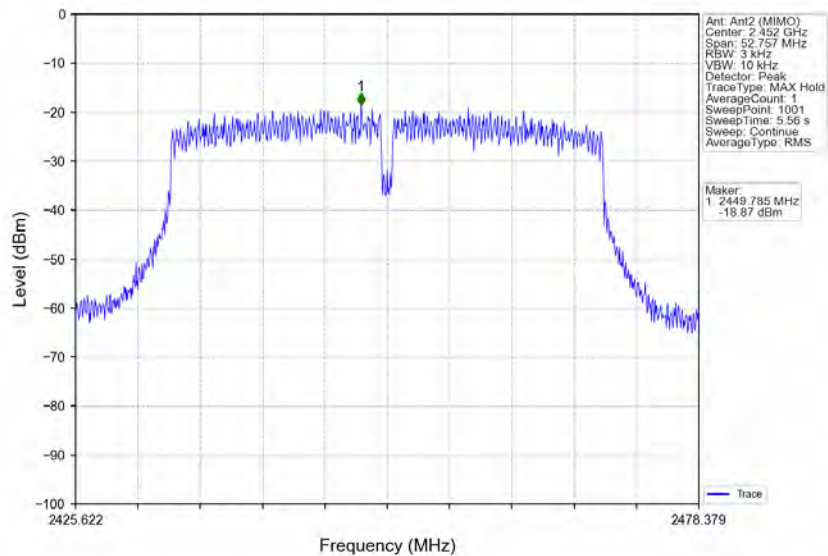
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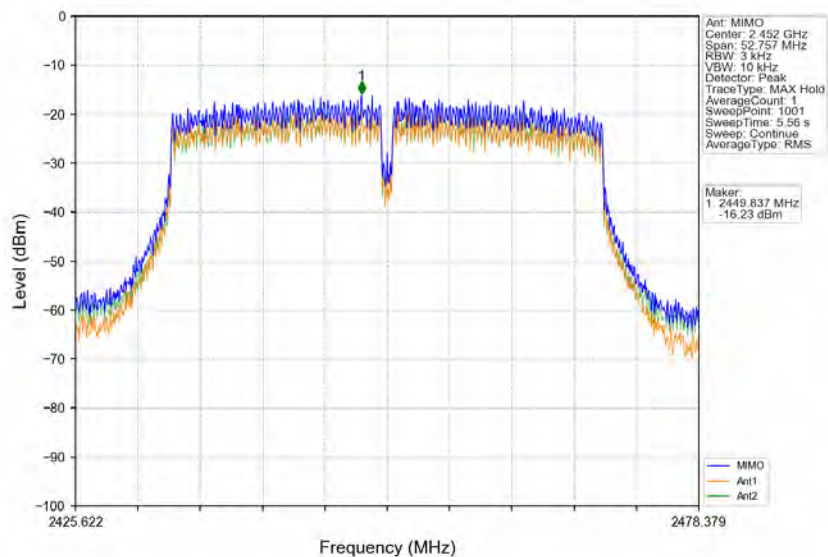
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



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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)
802.11b	SISO	2412	1	7.02
			2	4.83
		2437	1	6.82
			2	6.70
		2462	1	6.87
			2	6.55
802.11g	SISO	2412	1	3.56
			2	3.63
		2437	1	3.71
			2	3.42
		2462	1	3.42
			2	3.00
802.11n (HT20)	MIMO	2412	1	0.67
			2	0.05
		2437	1	0.53
			2	0.30
		2462	1	0.69
			2	-0.40
802.11n (HT40)	MIMO	2422	1	-3.30
			2	-3.60
		2437	1	-3.08
			2	-3.69
		2452	1	-3.66
			2	-3.51

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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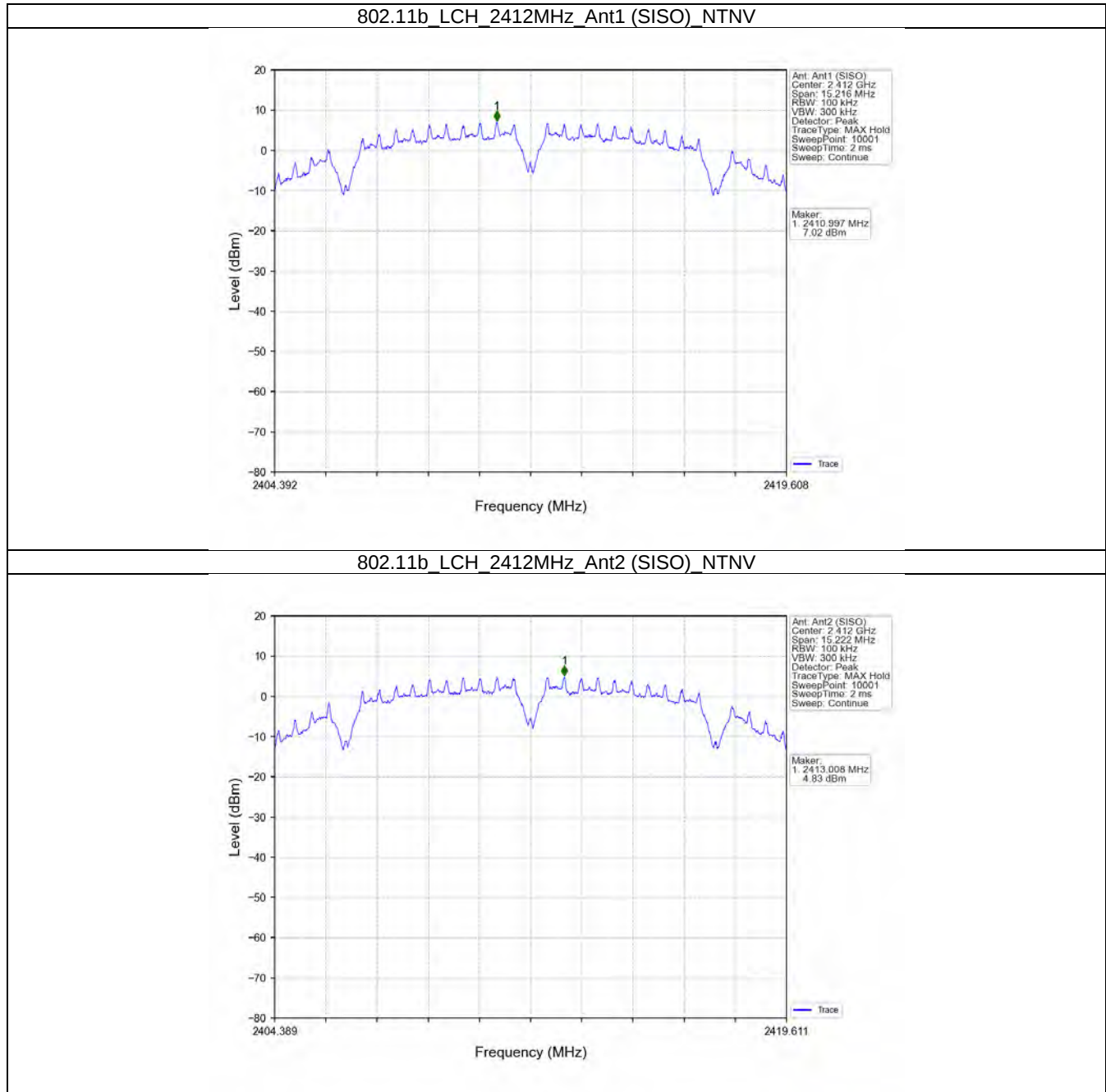
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5.1.2 Test Graph



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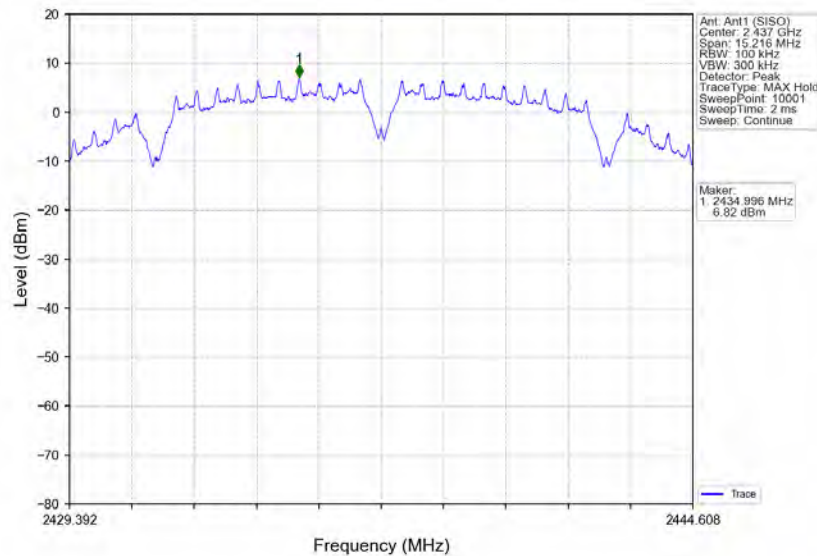
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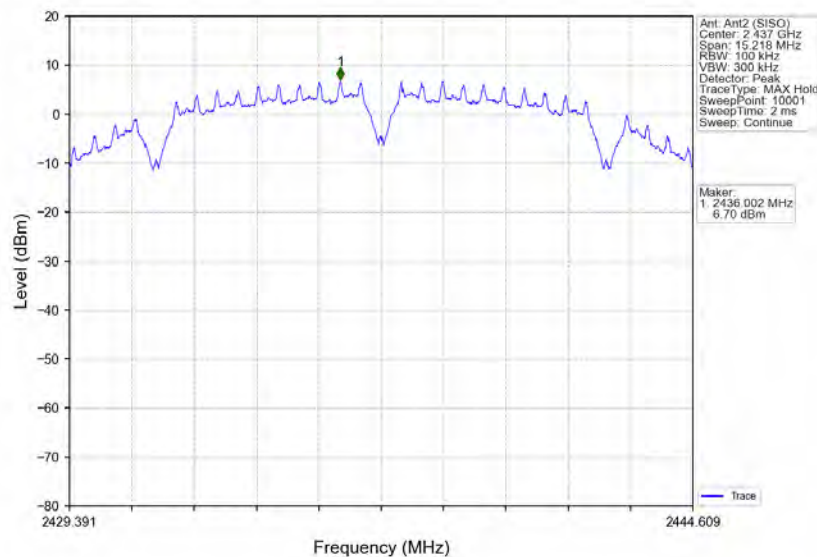
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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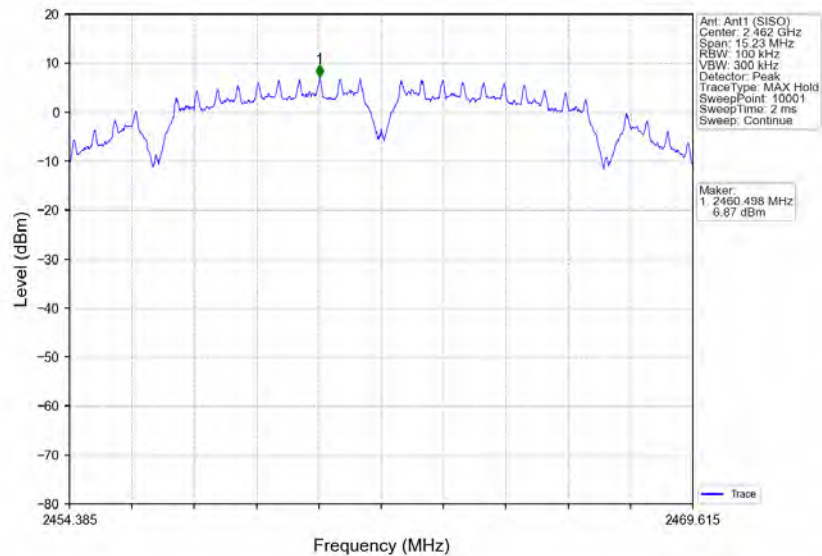
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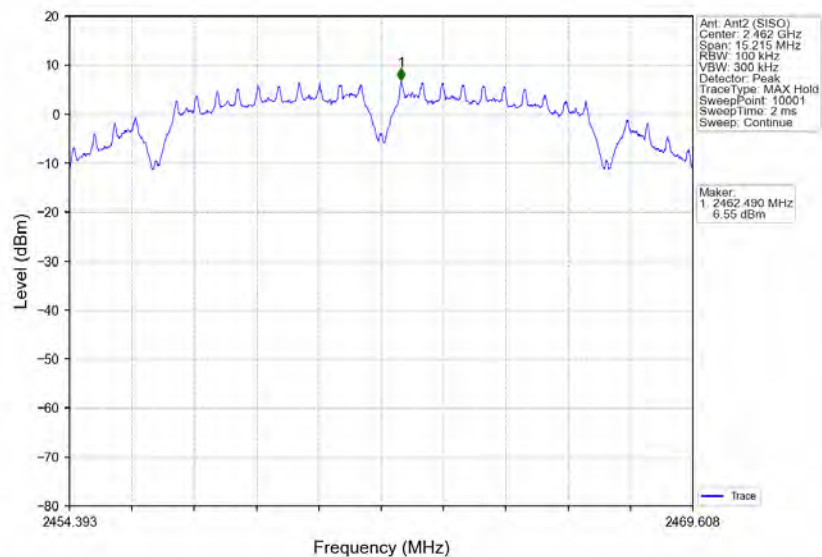
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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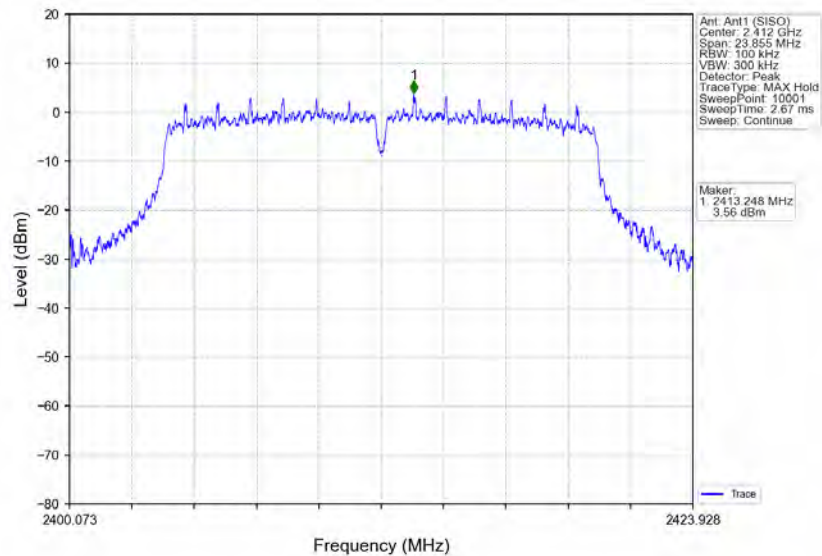
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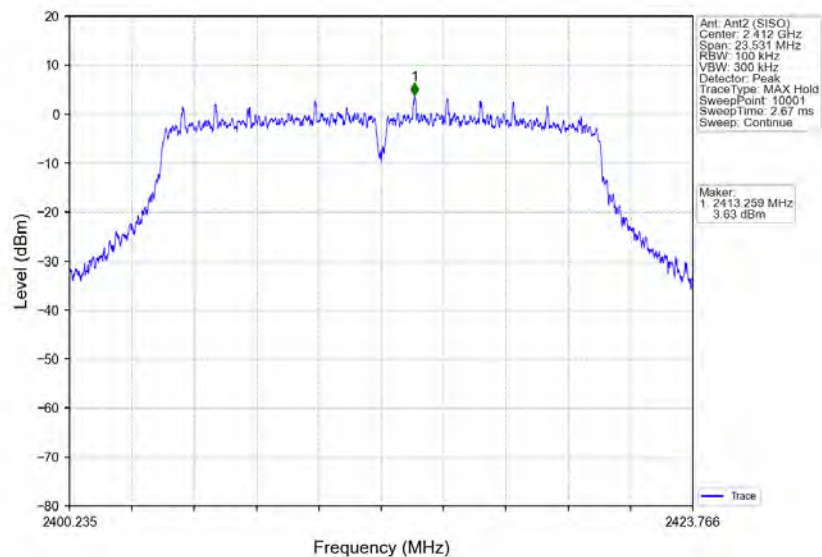
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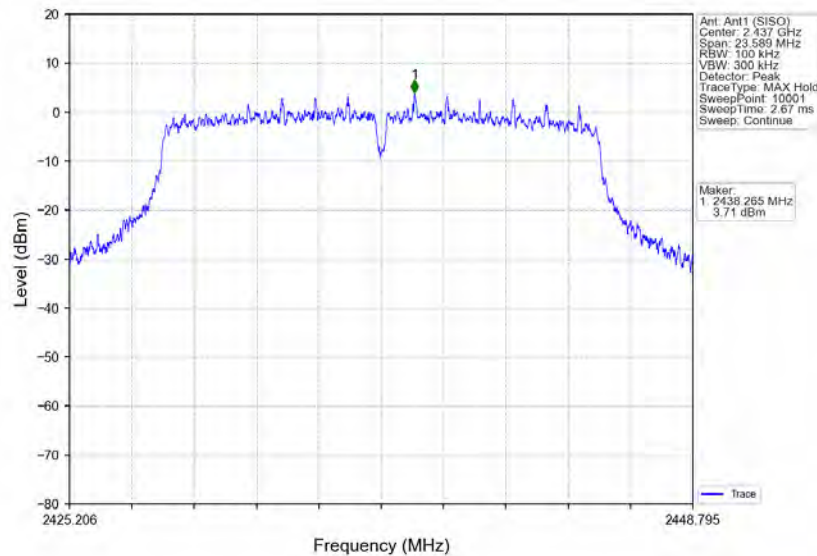
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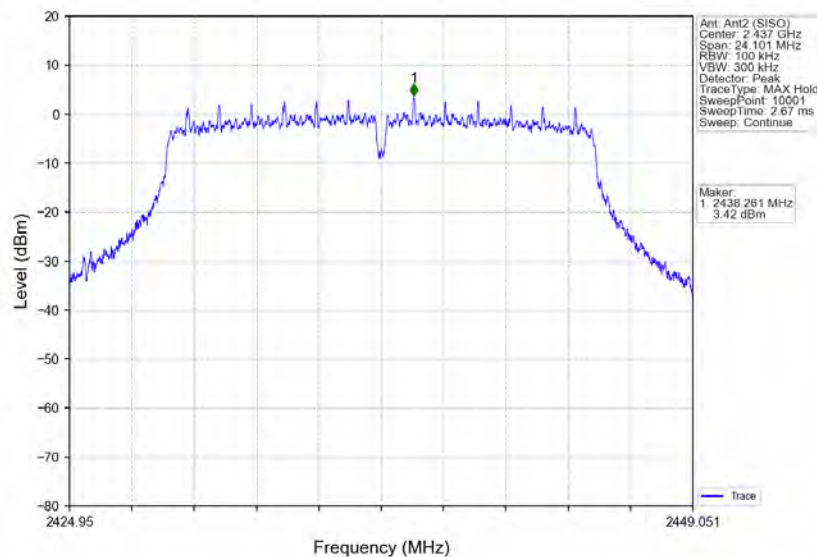
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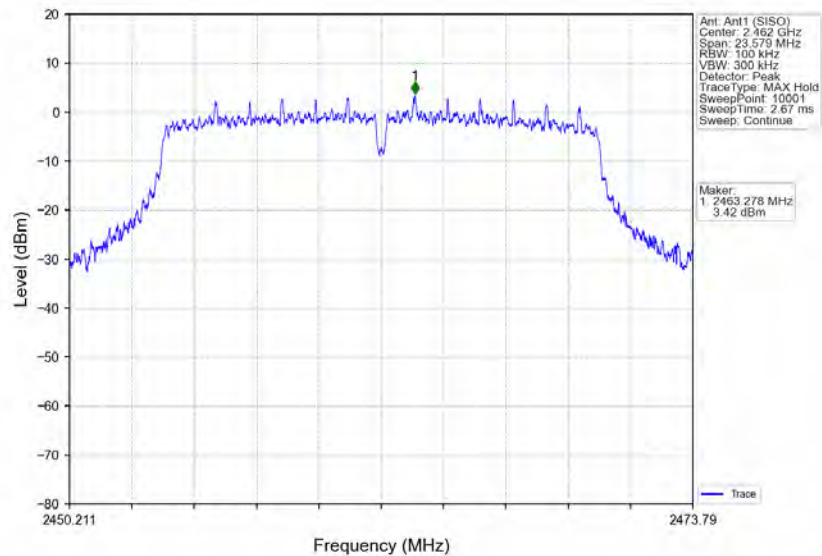
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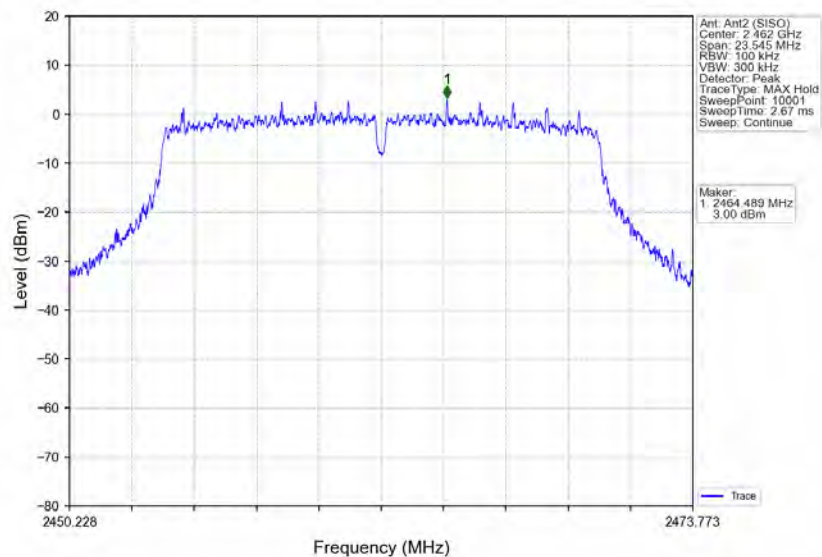
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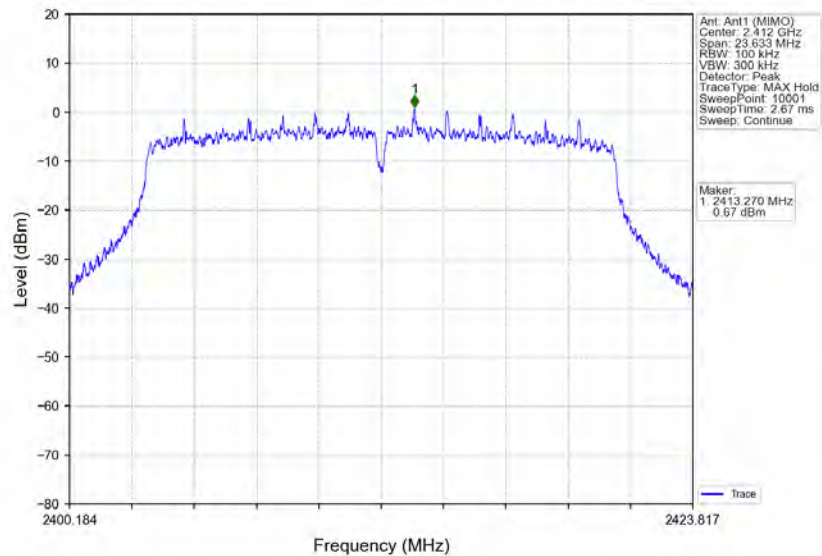
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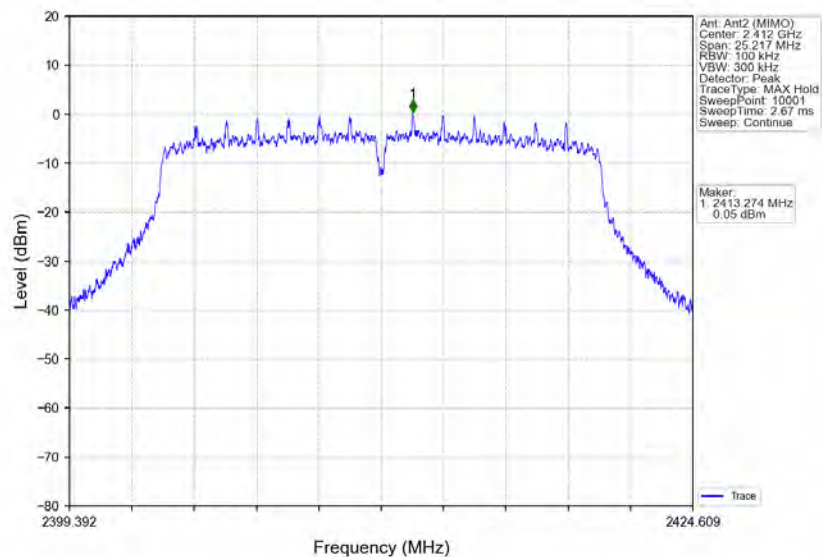
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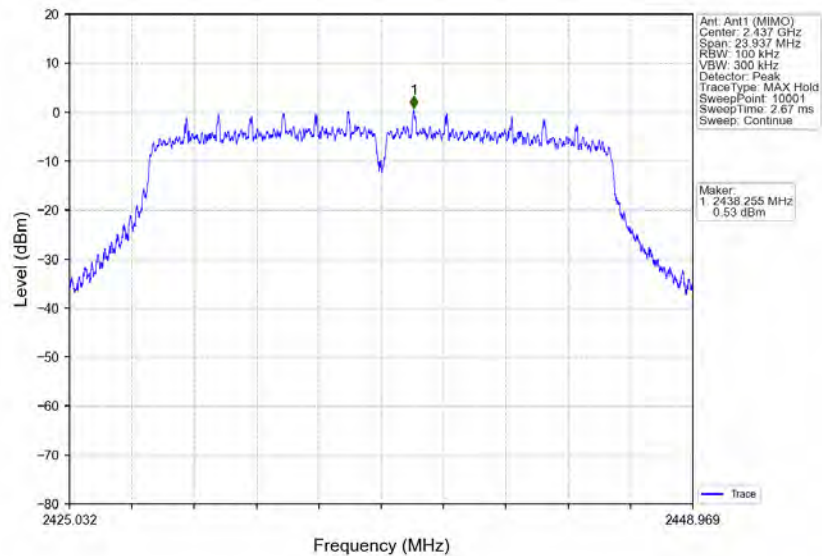
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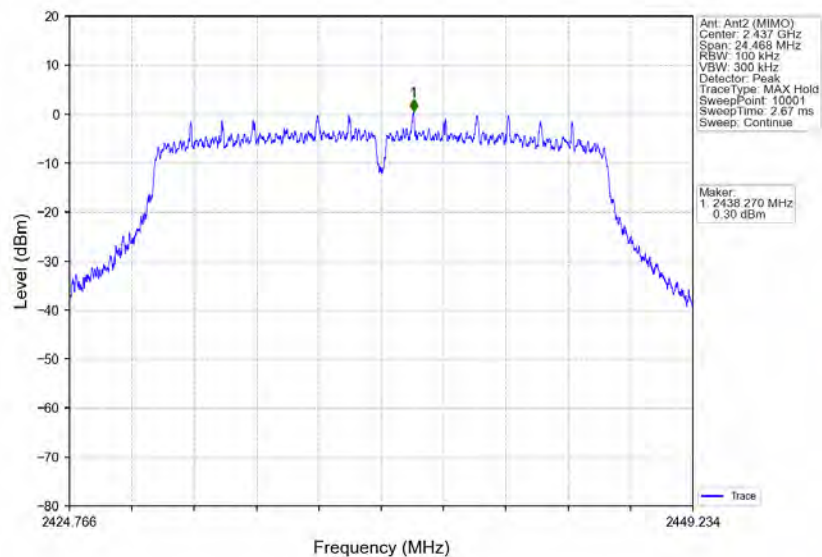
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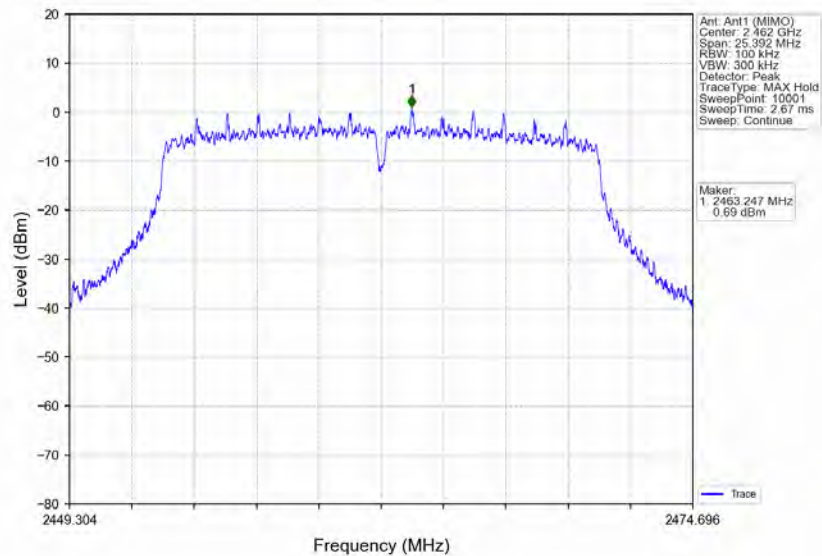
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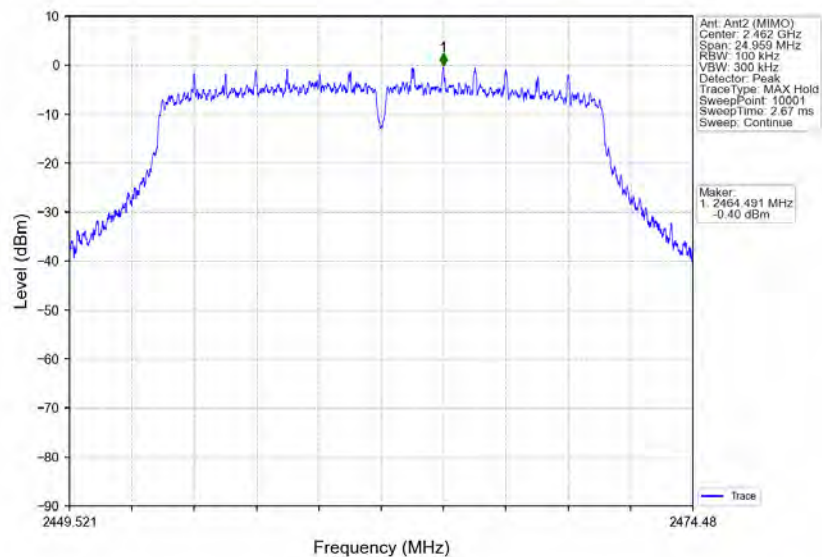
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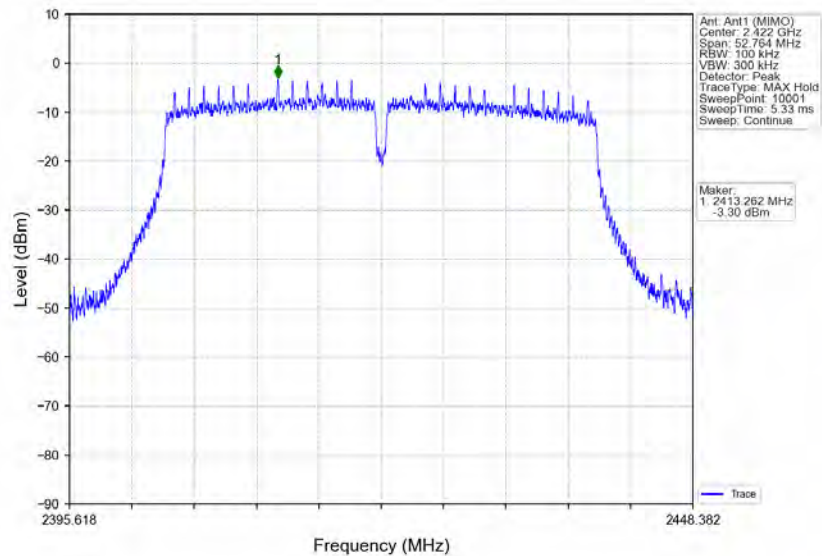
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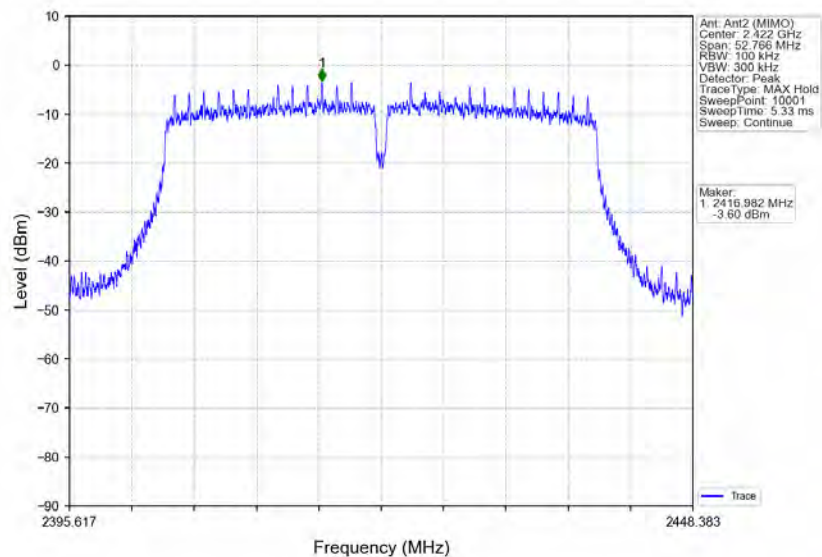
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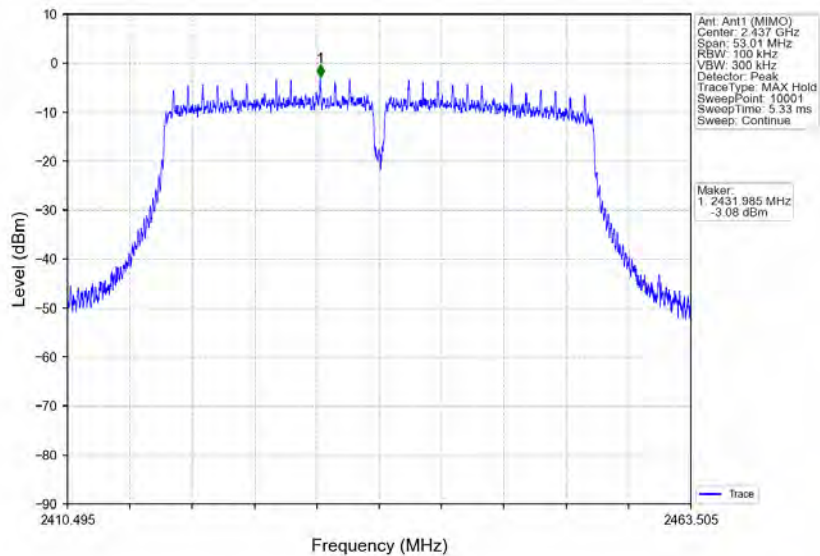
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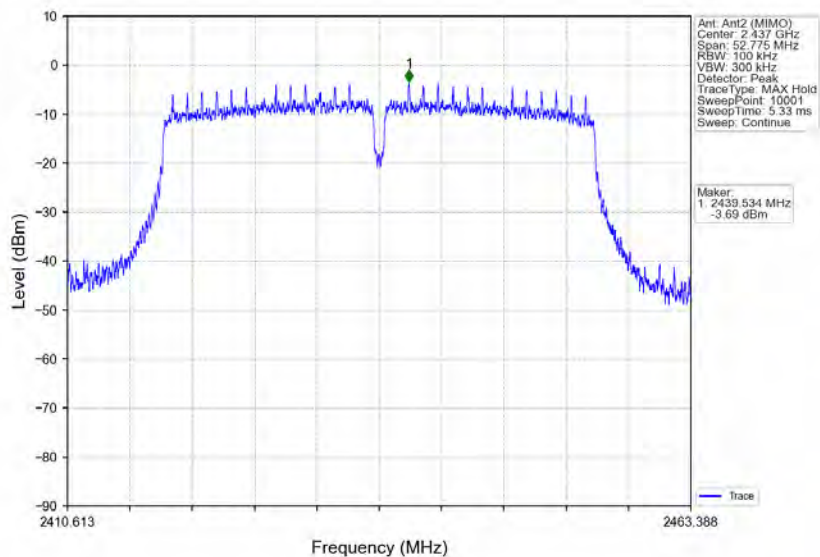
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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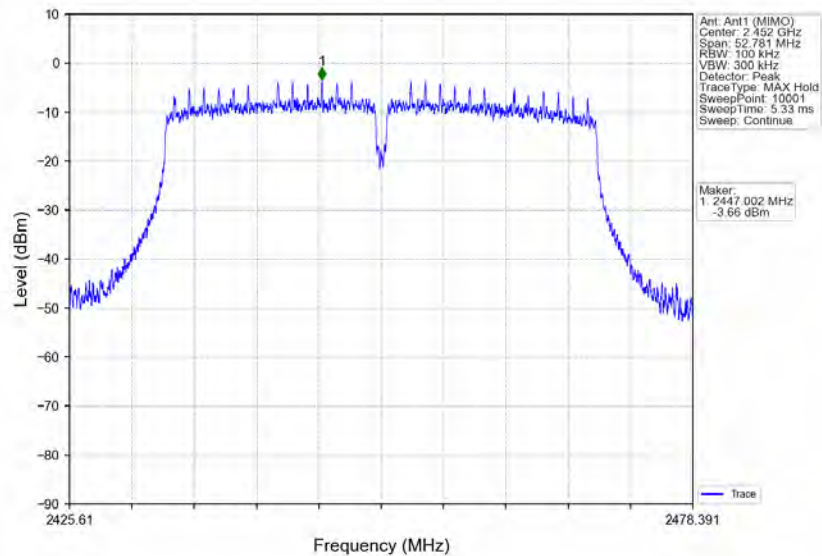
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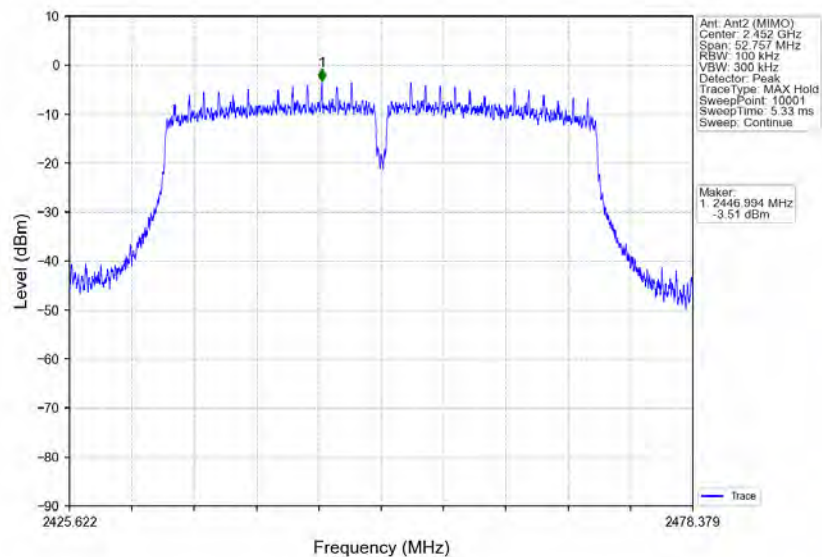
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.02	-22.98	Pass
			2	6.70	-23.30	Pass
		2437	1	7.02	-22.98	Pass
			2	6.70	-23.30	Pass
		2462	1	7.02	-22.98	Pass
			2	6.70	-23.30	Pass
802.11g	SISO	2412	1	3.71	-26.29	Pass
			2	3.63	-26.37	Pass
		2437	1	3.71	-26.29	Pass
			2	3.63	-26.37	Pass
		2462	1	3.71	-26.29	Pass
			2	3.63	-26.37	Pass
802.11n (HT20)	MIMO	2412	1	0.69	-29.31	Pass
			2	0.30	-29.70	Pass
		2437	1	0.69	-29.31	Pass
			2	0.30	-29.70	Pass
		2462	1	0.69	-29.31	Pass
			2	0.30	-29.70	Pass
802.11n (HT40)	MIMO	2422	1	-3.08	-33.08	Pass
			2	-3.51	-33.51	Pass
		2437	1	-3.08	-33.08	Pass
			2	-3.51	-33.51	Pass
		2452	1	-3.08	-33.08	Pass
			2	-3.51	-33.51	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.



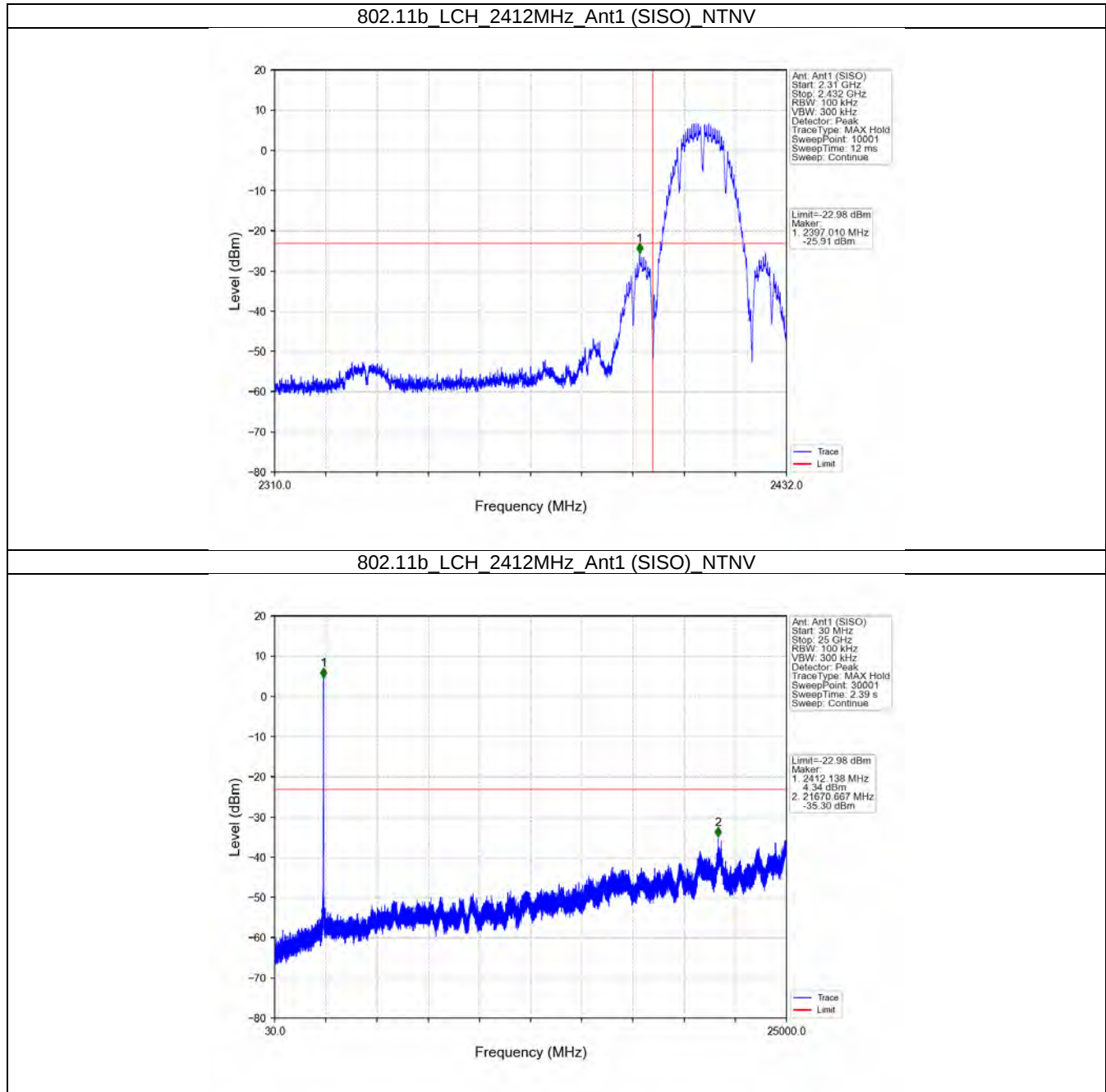
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5.2.2 Test Graph



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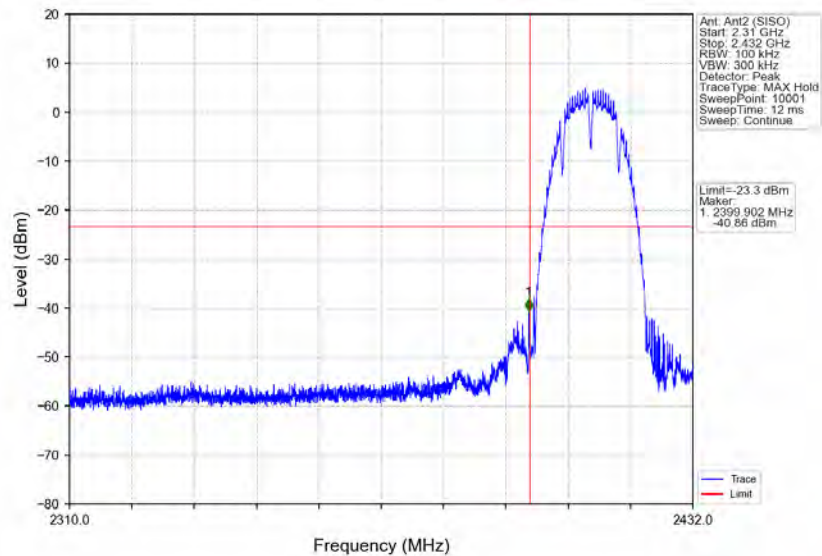
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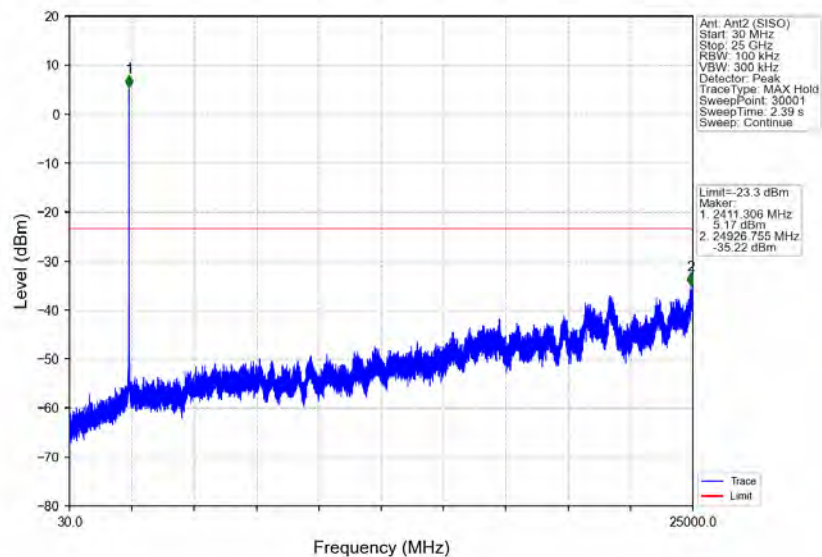
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802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



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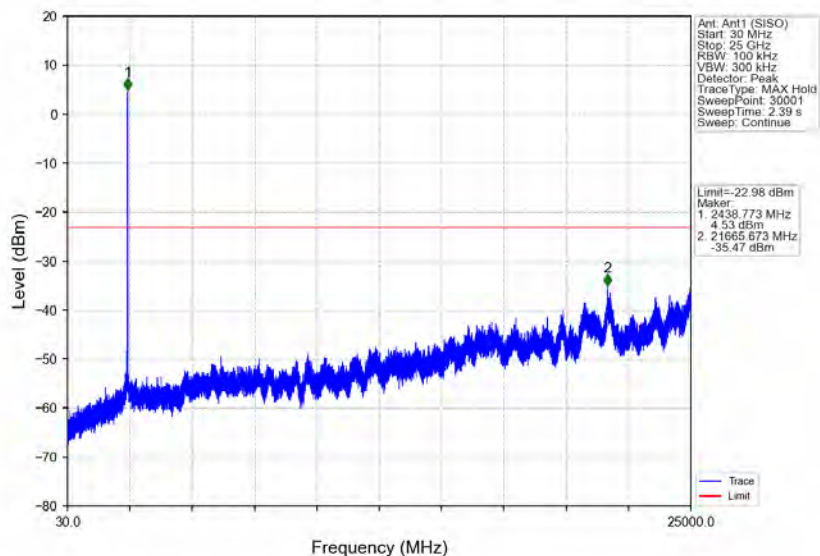
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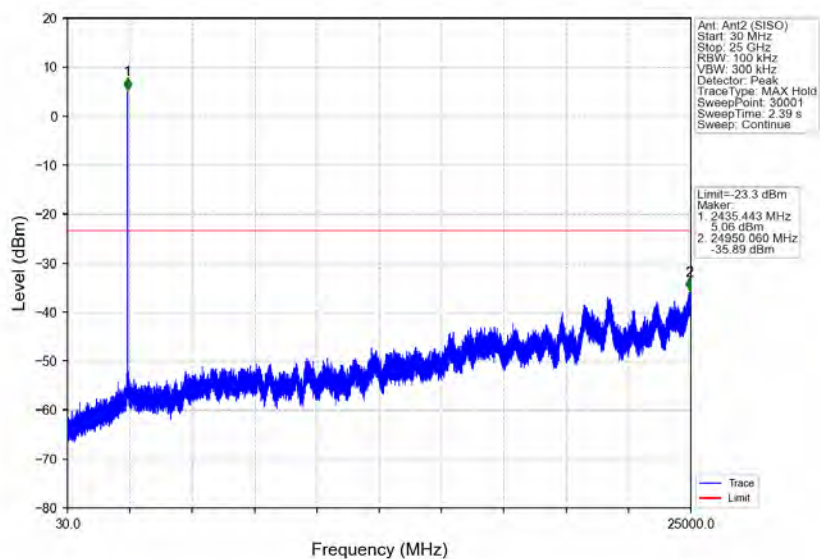
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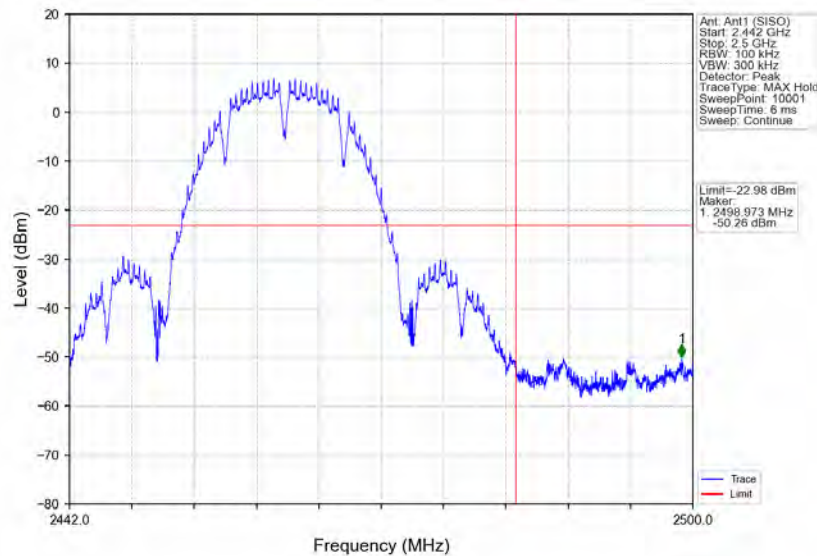
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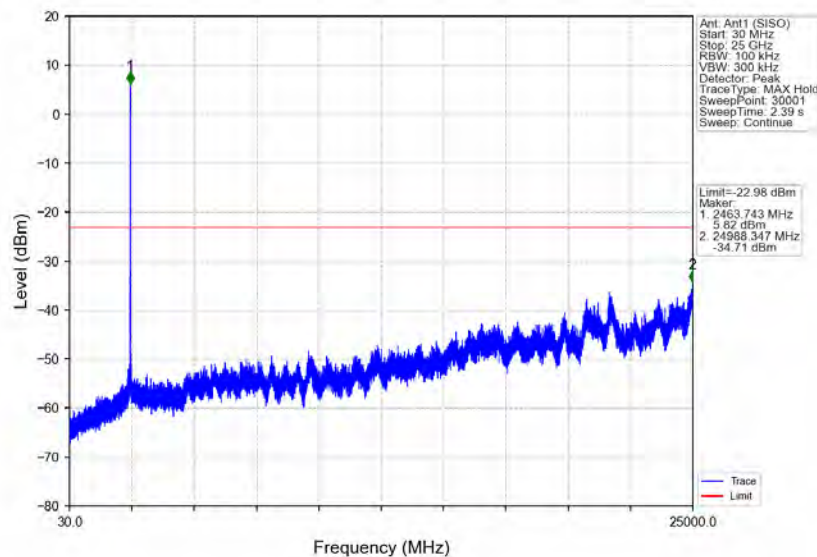
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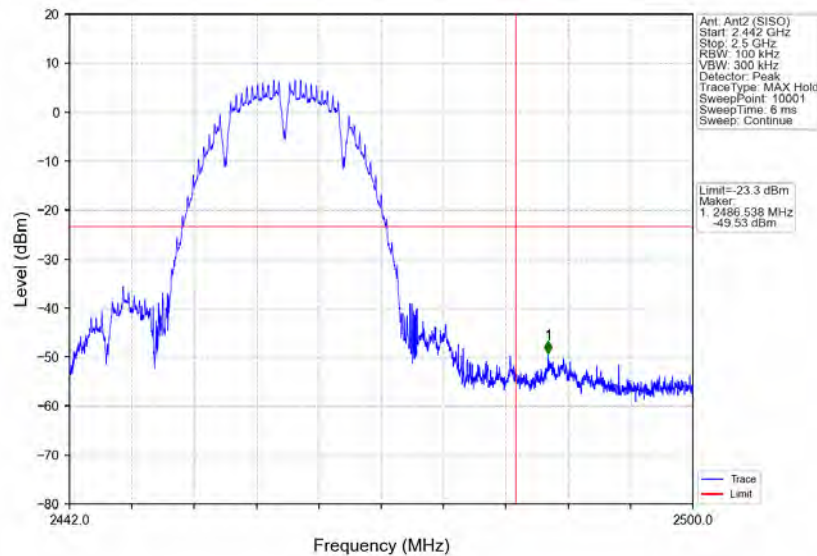
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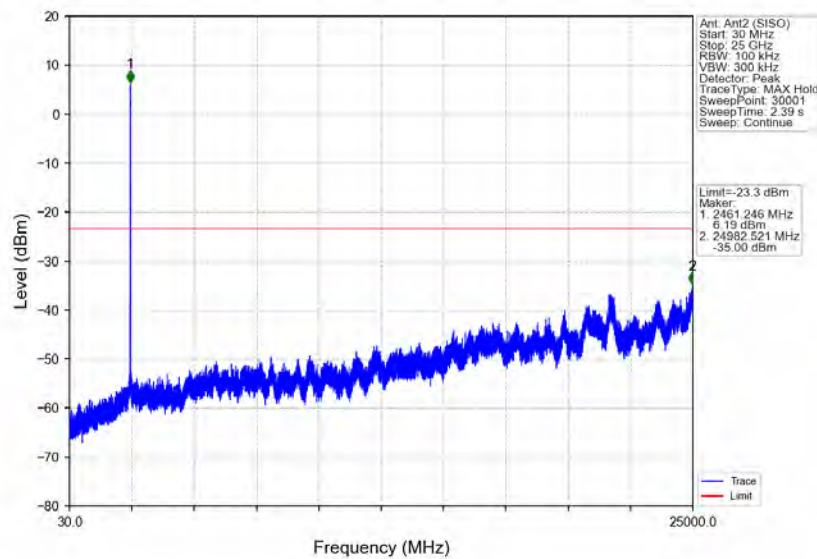
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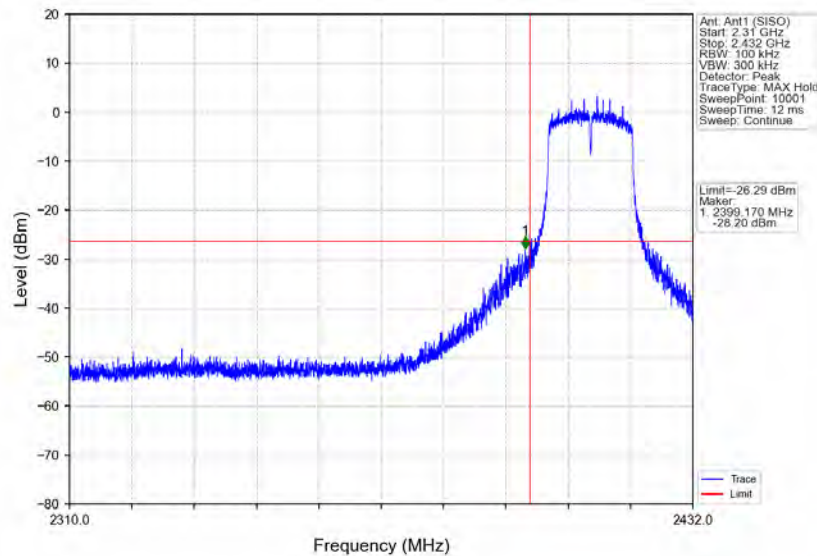
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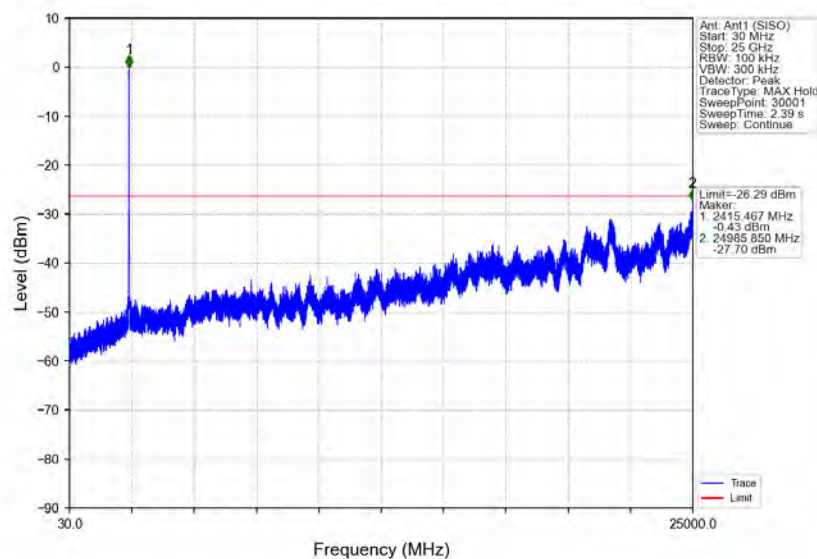
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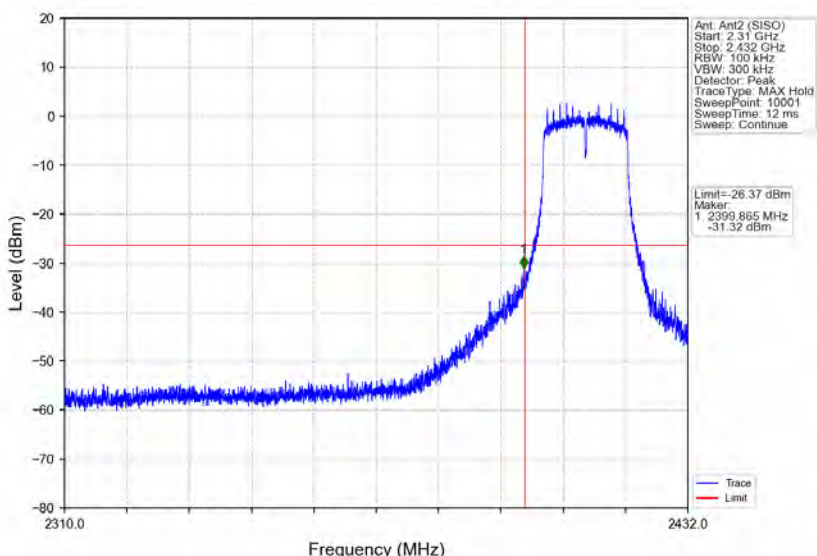
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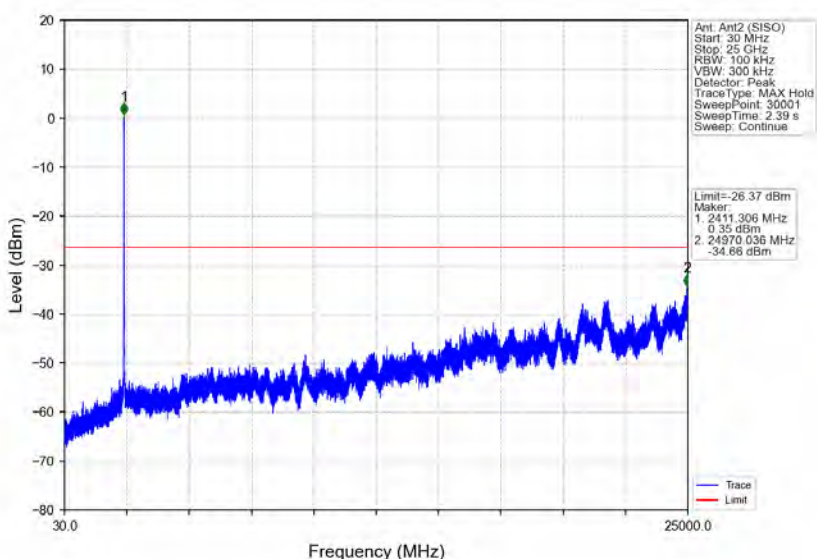
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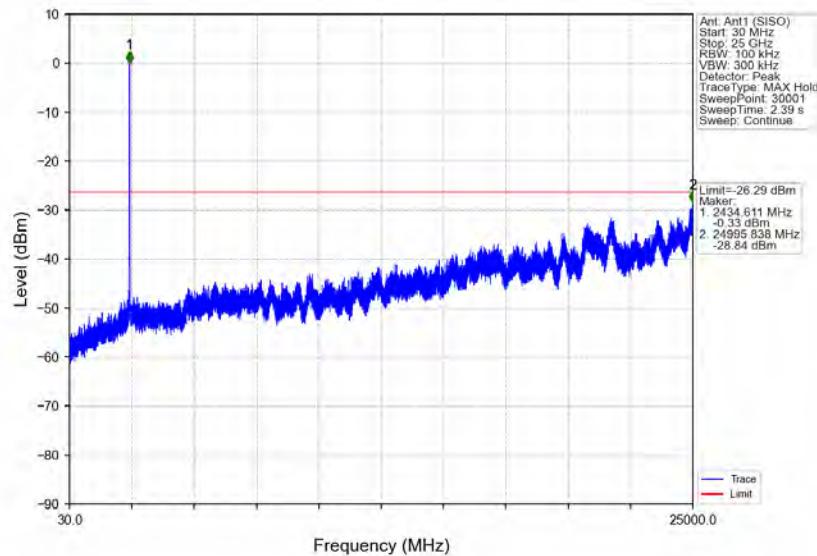
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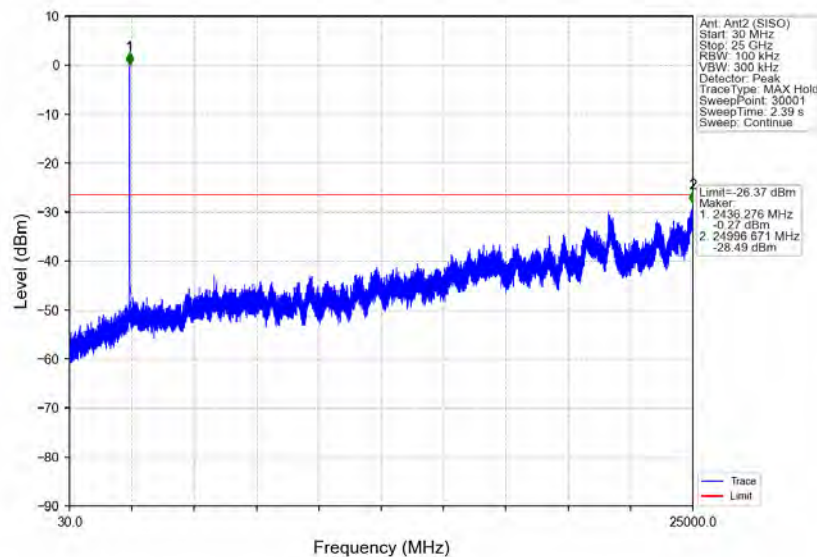
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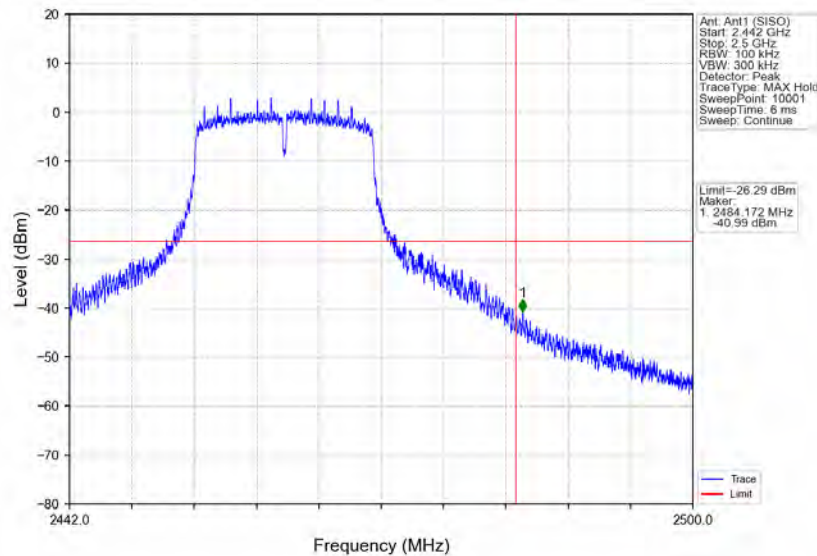
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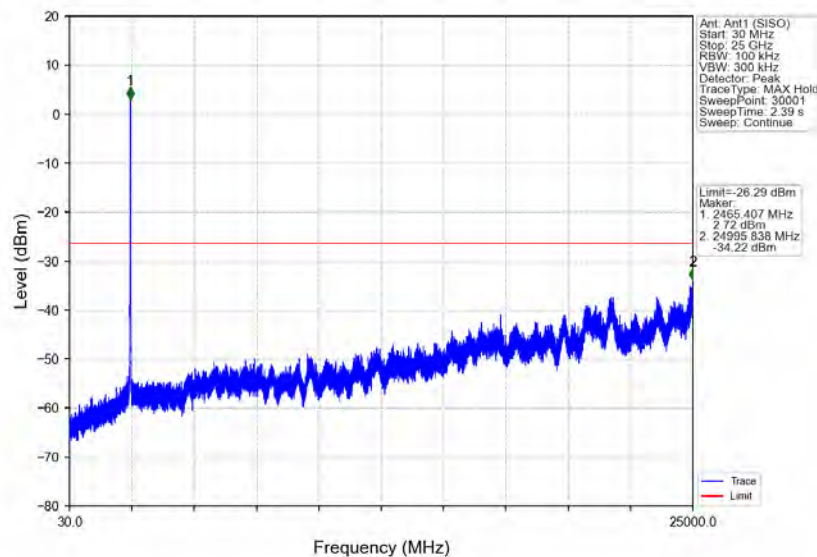
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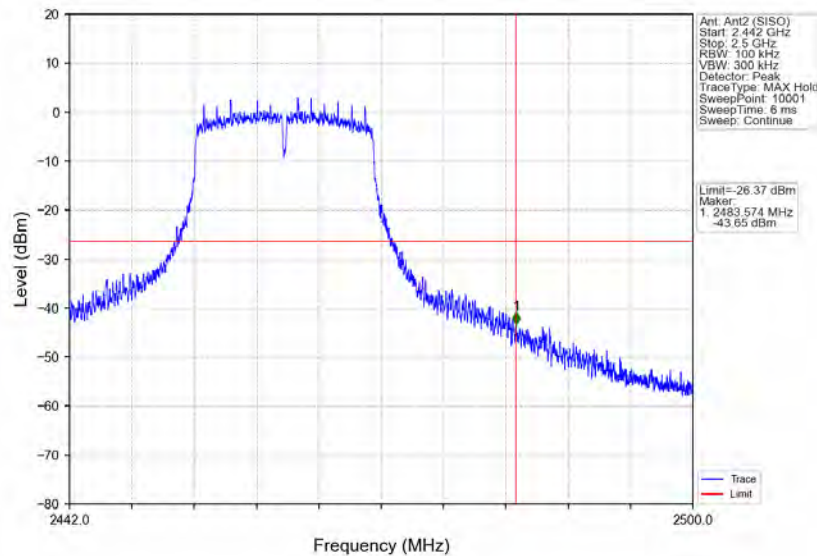
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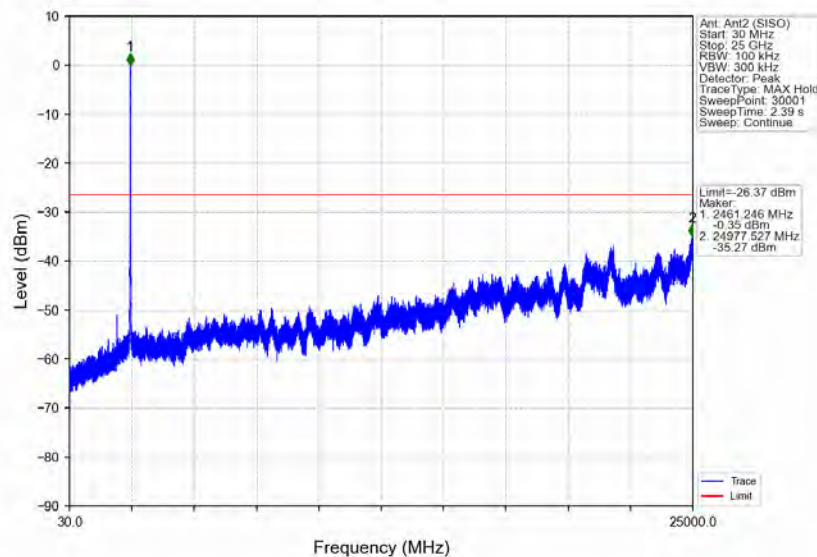
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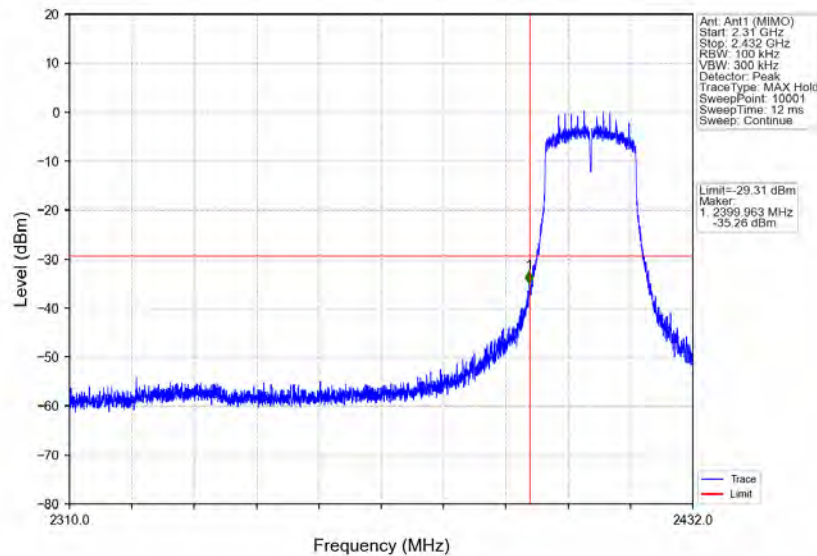
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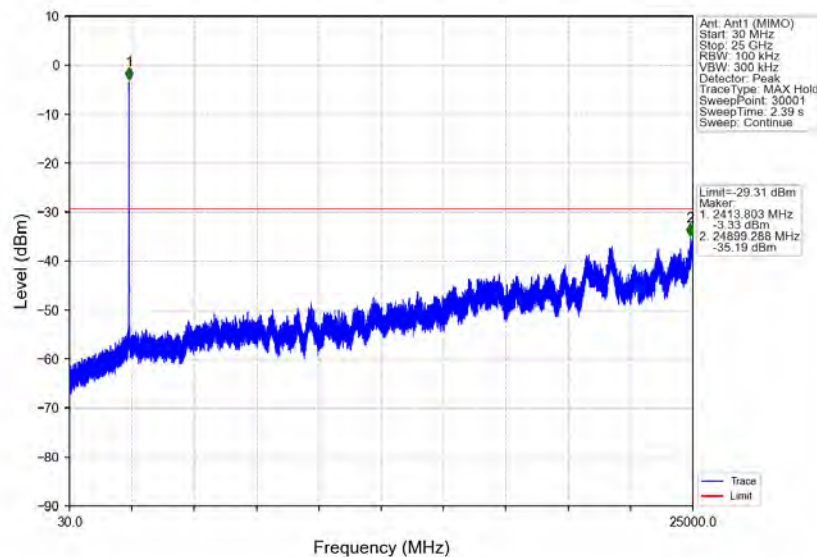
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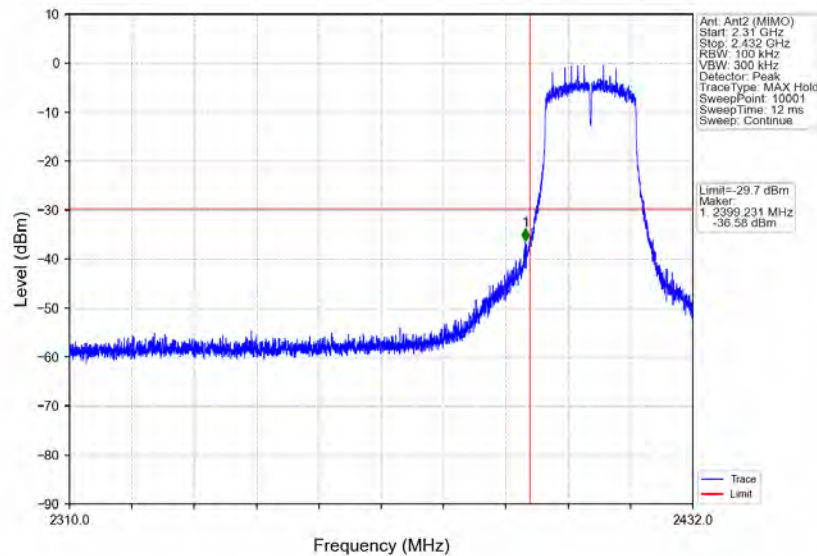
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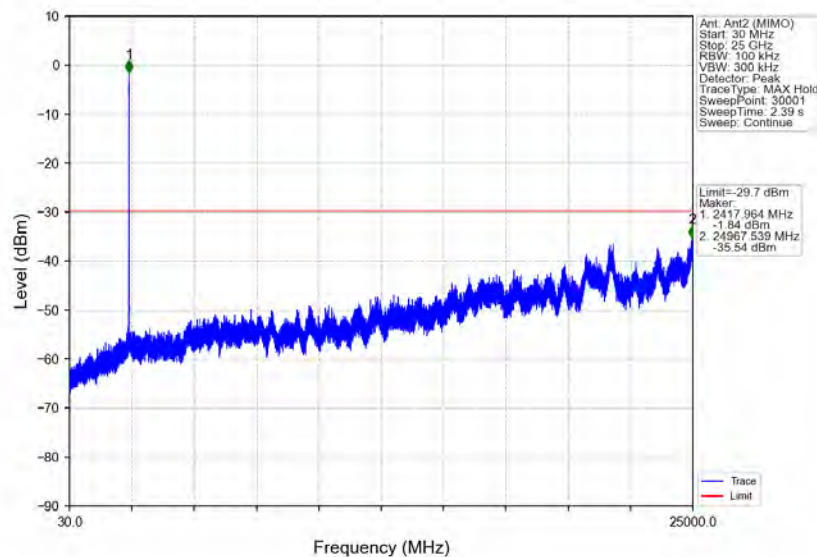
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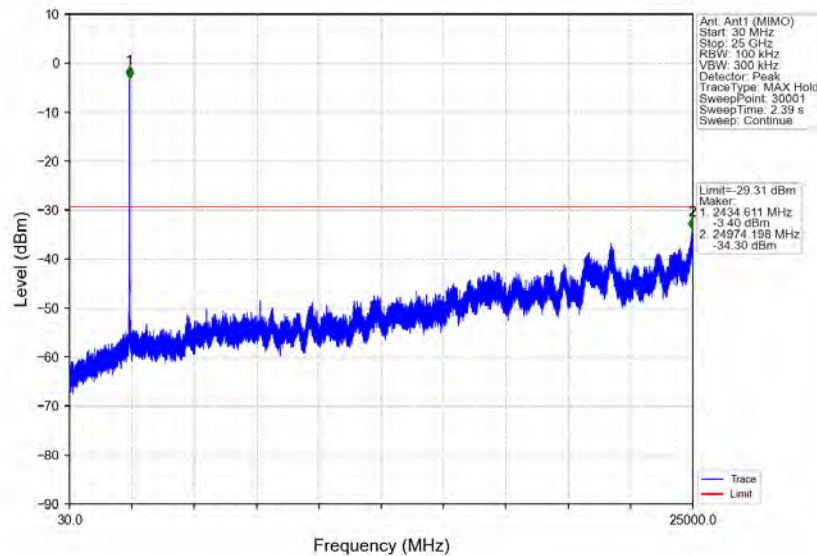
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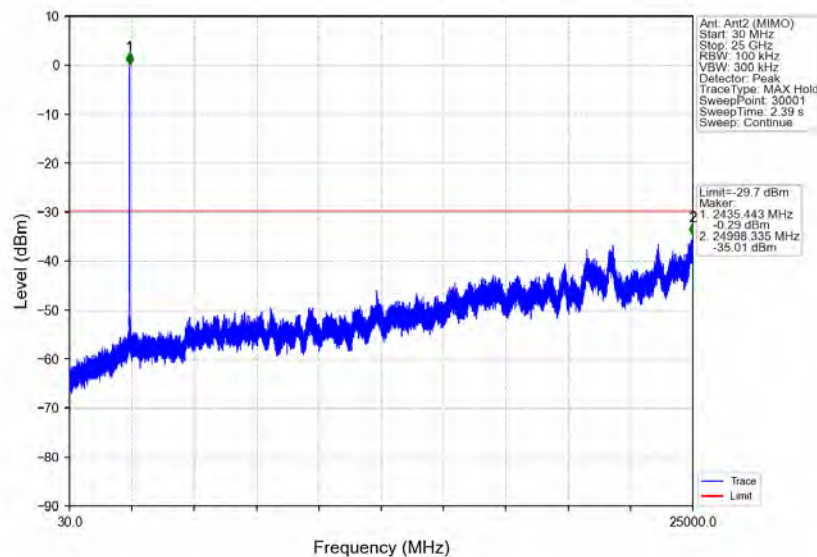
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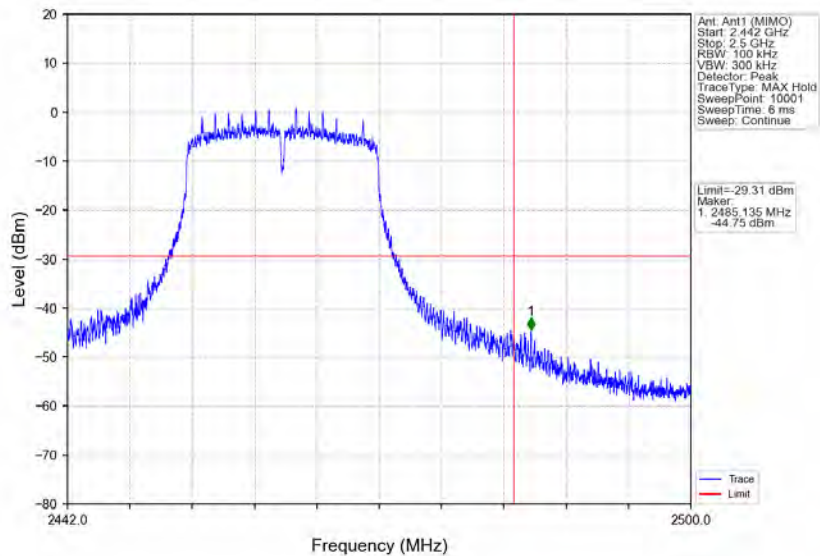
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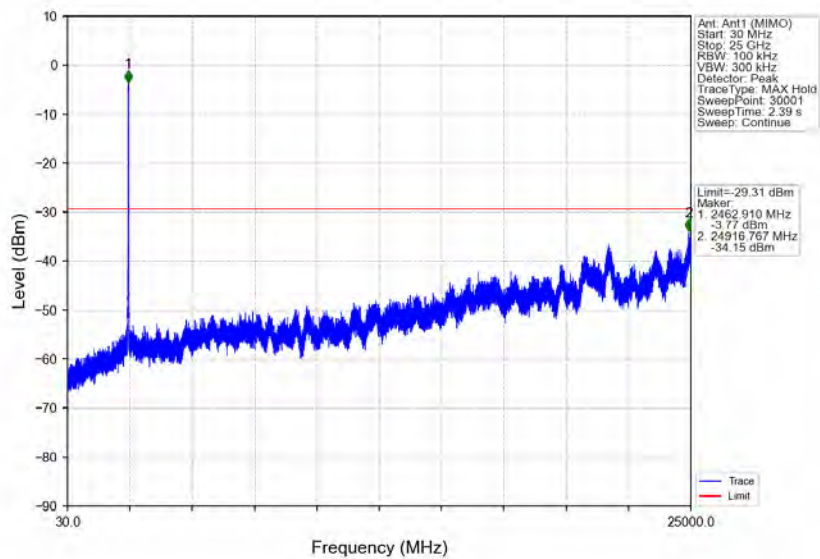
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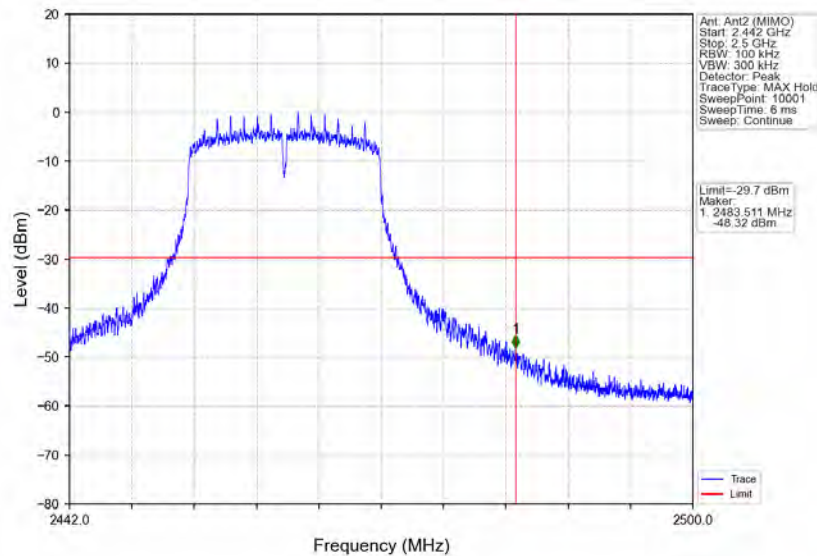
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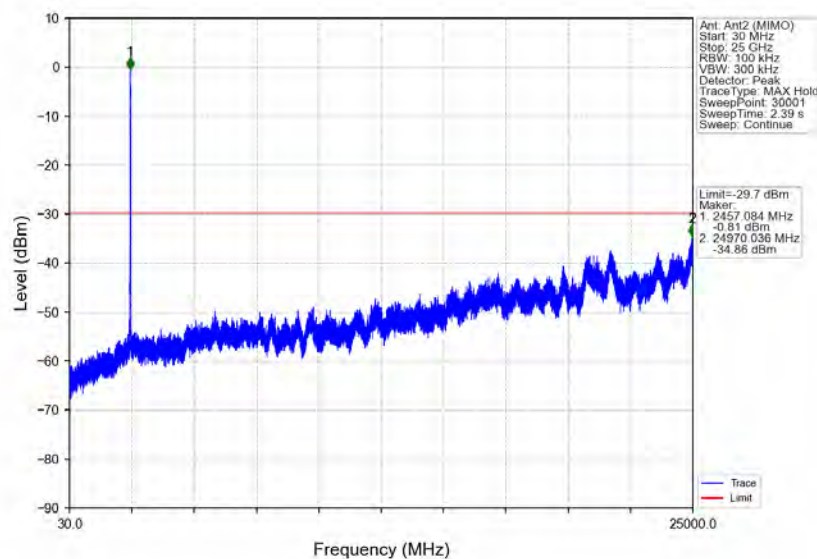
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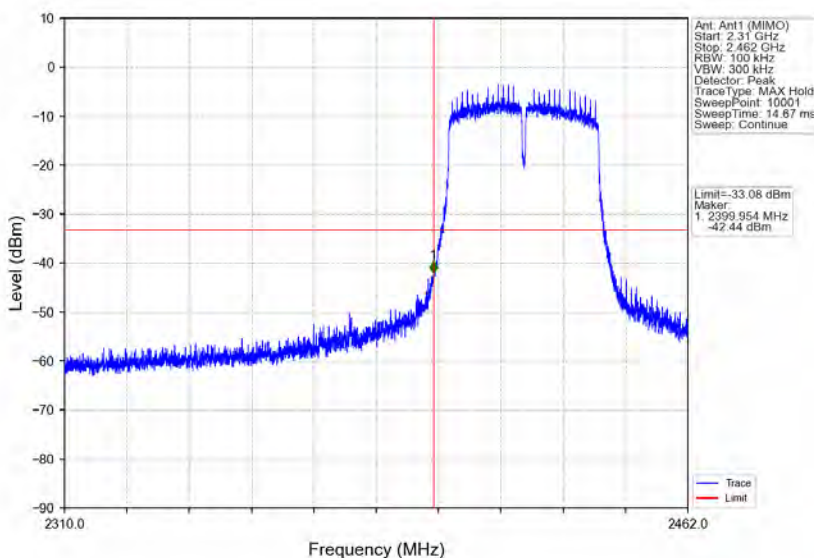
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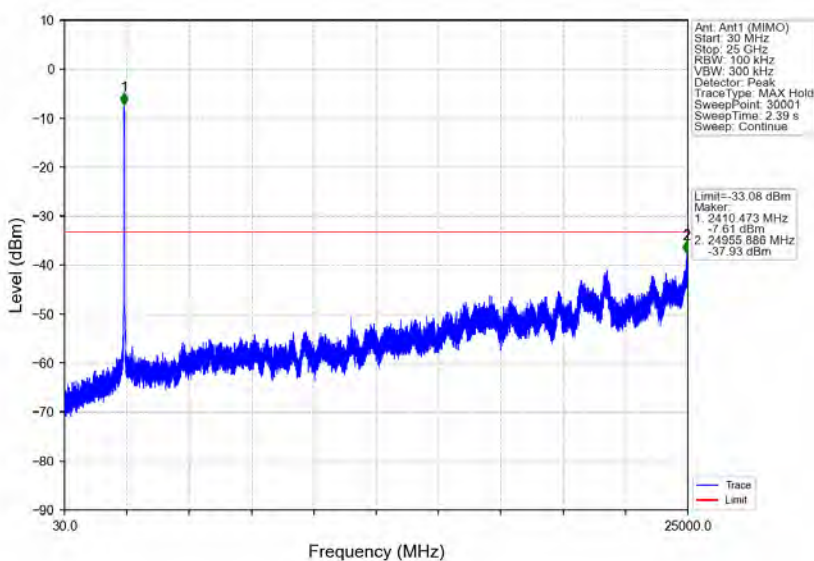
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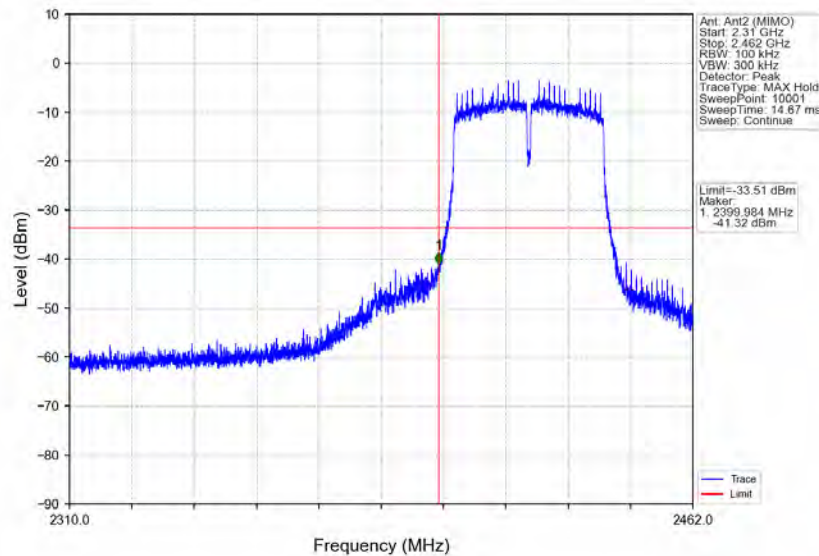
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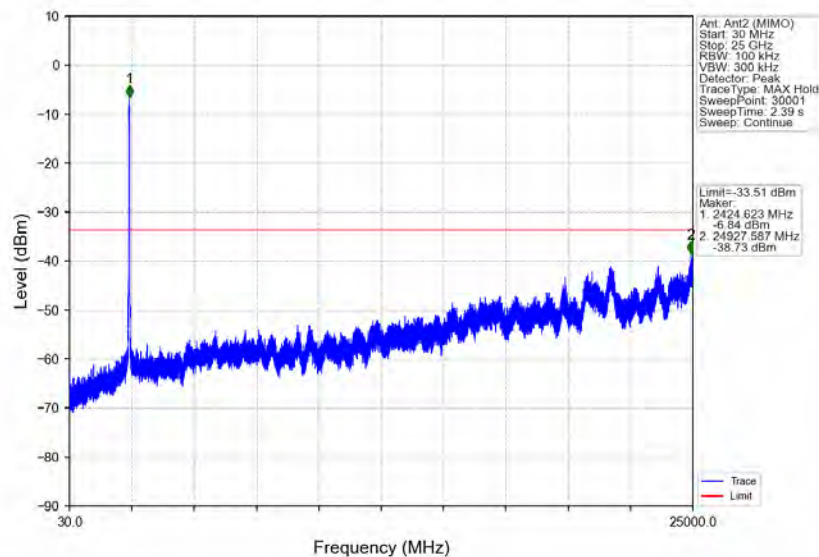
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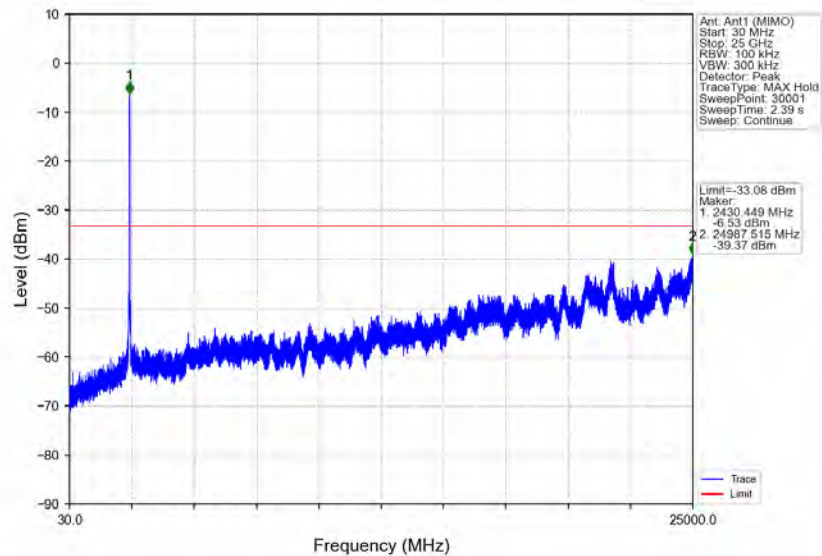
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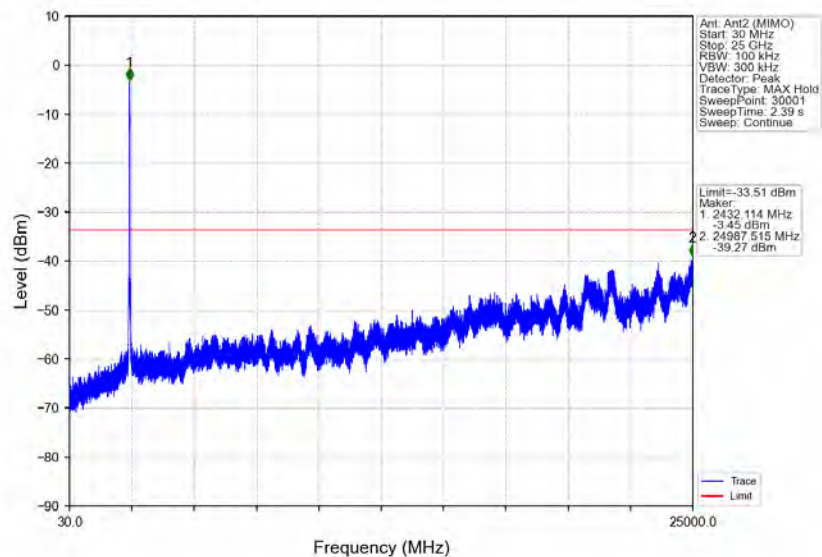
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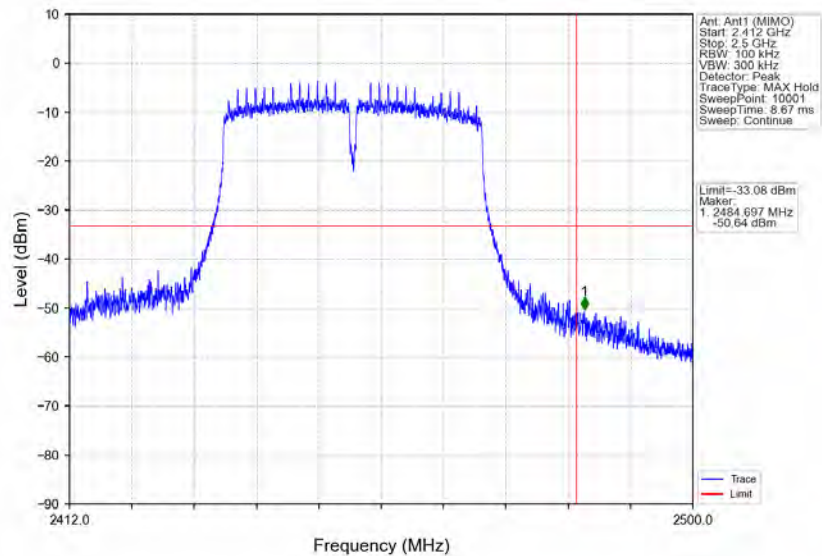
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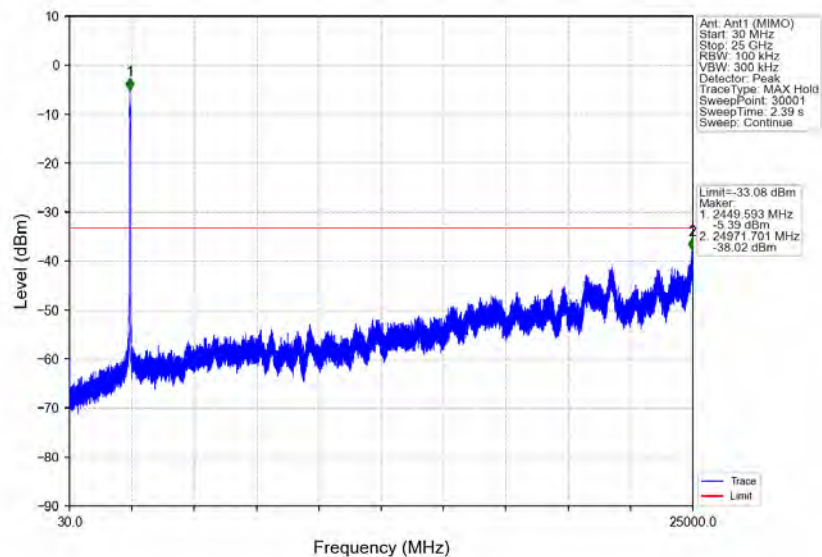
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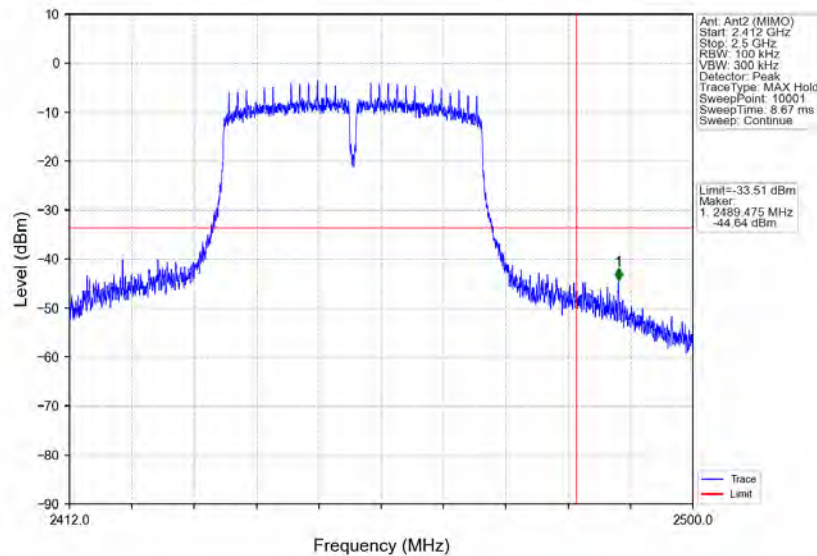
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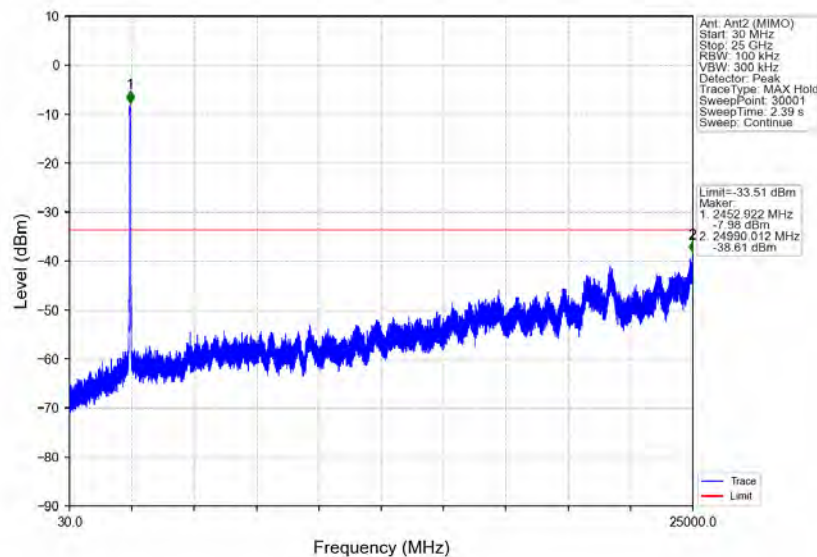
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