

Appendix A for KSCR220600092401

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	64.267	65.573	98.01	0.09	0.00
		2437	53.997	55.303	97.64	0.10	0.00
		2462	56.617	57.923	97.75	0.10	0.00
802.11g	SISO	2412	60.283	60.700	99.31	0.03	0.00
		2437	67.524	67.934	99.40	0.03	0.00
		2462	43.060	43.473	99.05	0.04	0.00
802.11n (HT20)	MIMO	2412	1.303	1.345	96.88	0.14	0.03
		2437	1.303	1.345	96.88	0.14	0.03
		2462	1.303	1.345	96.88	0.14	0.03
802.11n (HT40)	MIMO	2422	0.650	0.692	93.93	0.27	0.03
		2437	0.650	0.692	93.93	0.27	0.03
		2452	0.650	0.692	93.93	0.27	0.03



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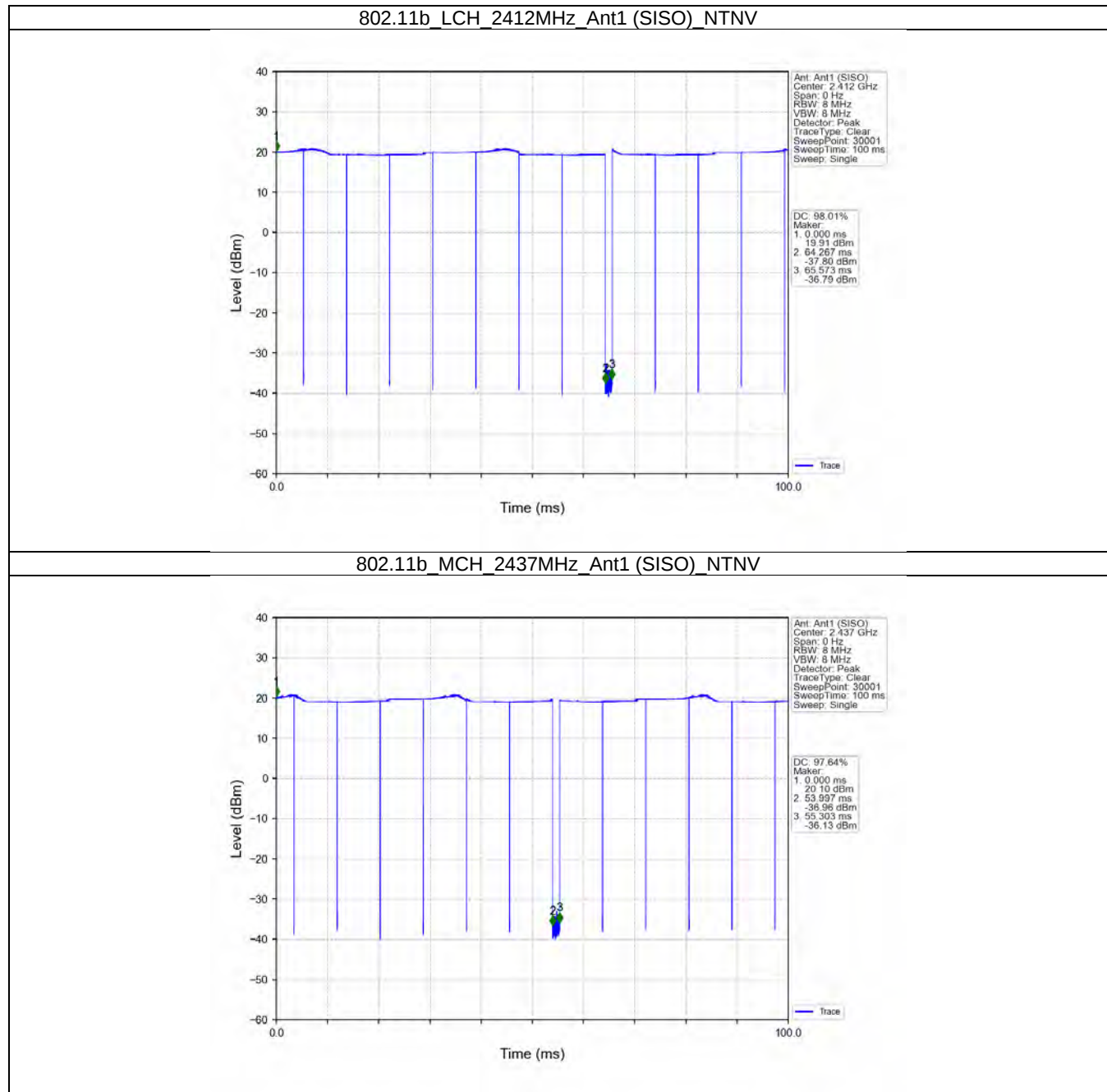
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1.1.2 Test Graph



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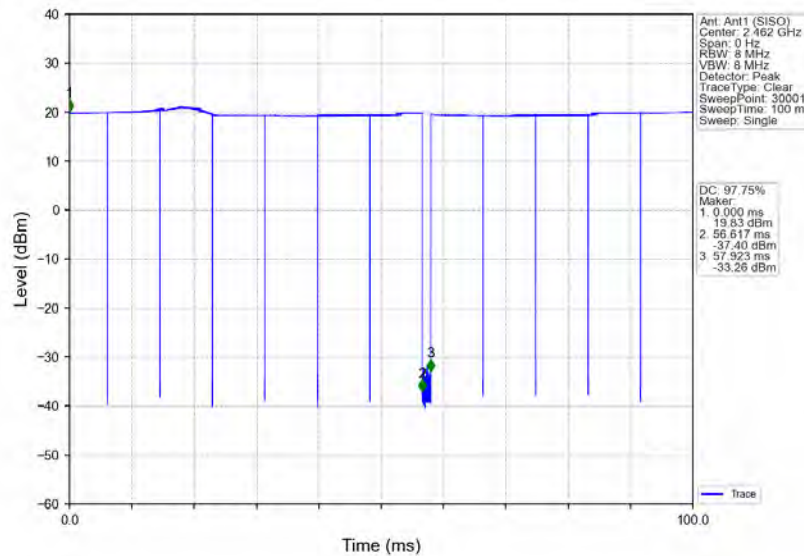
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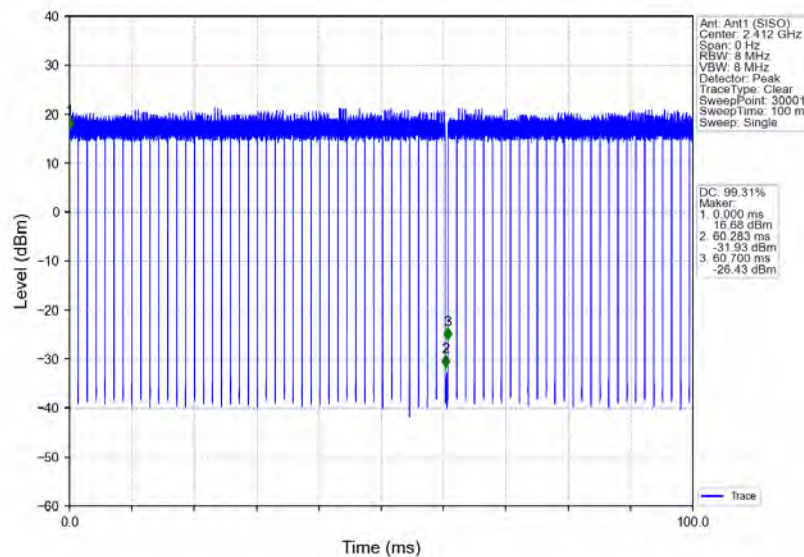
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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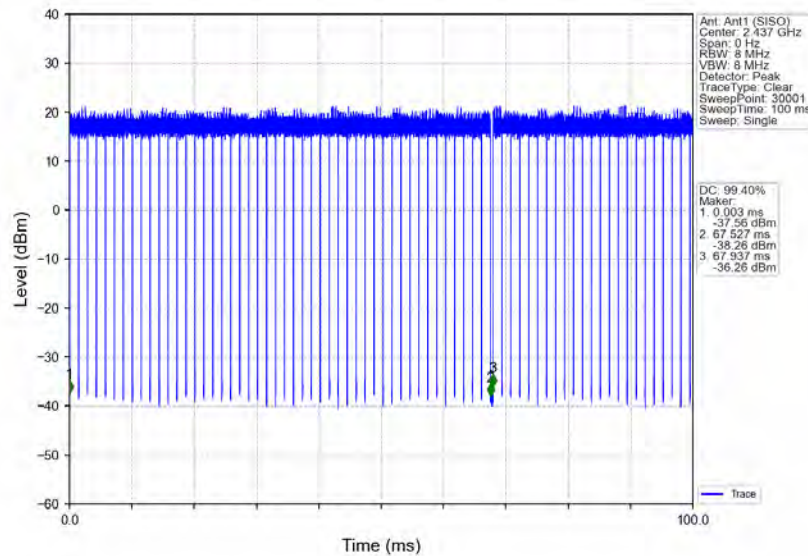
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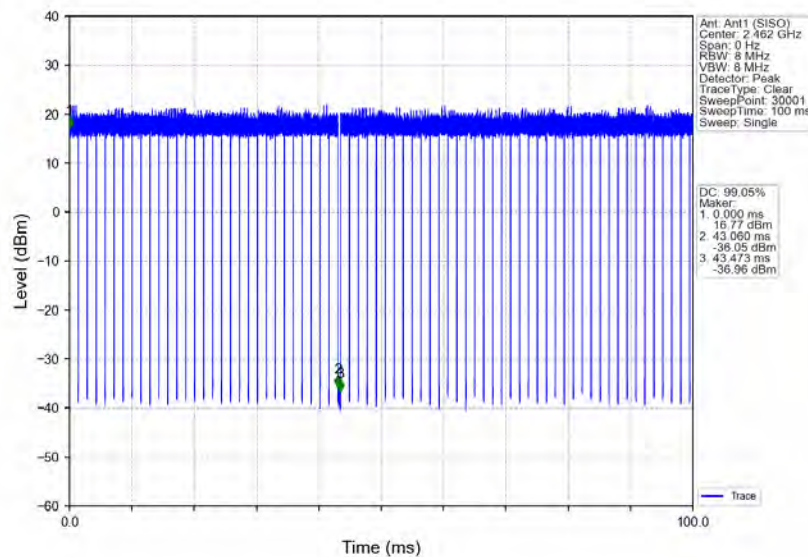
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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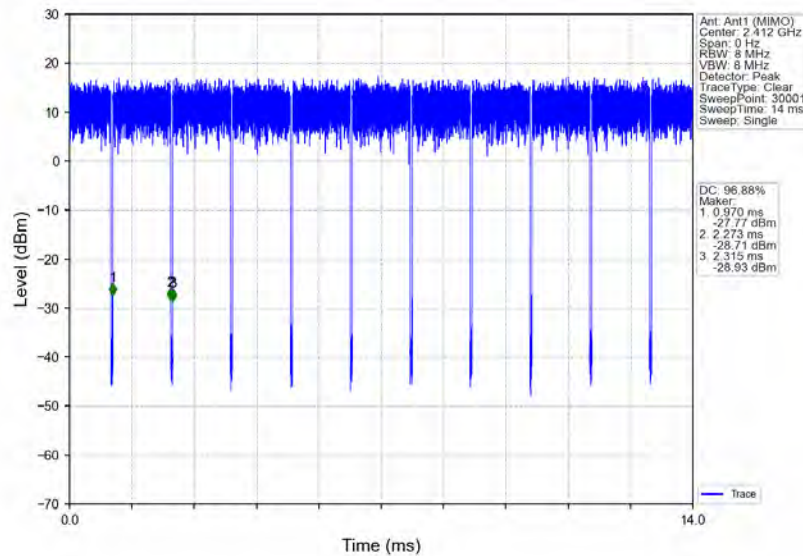
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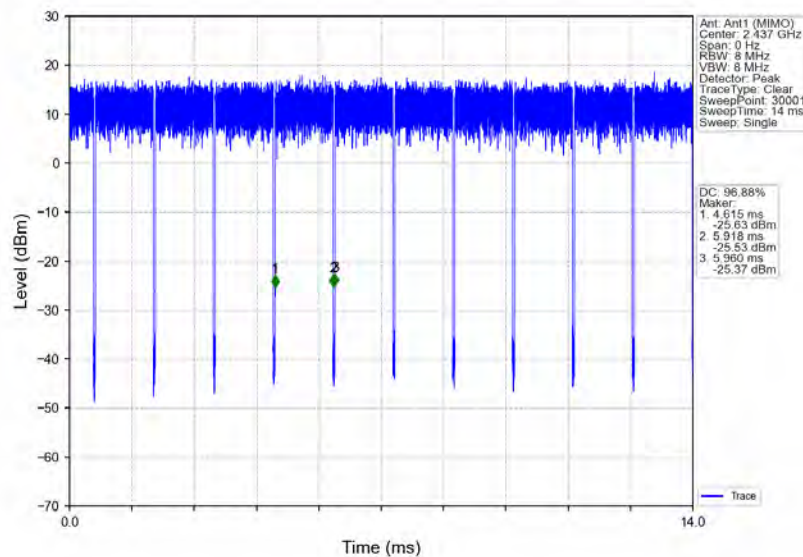
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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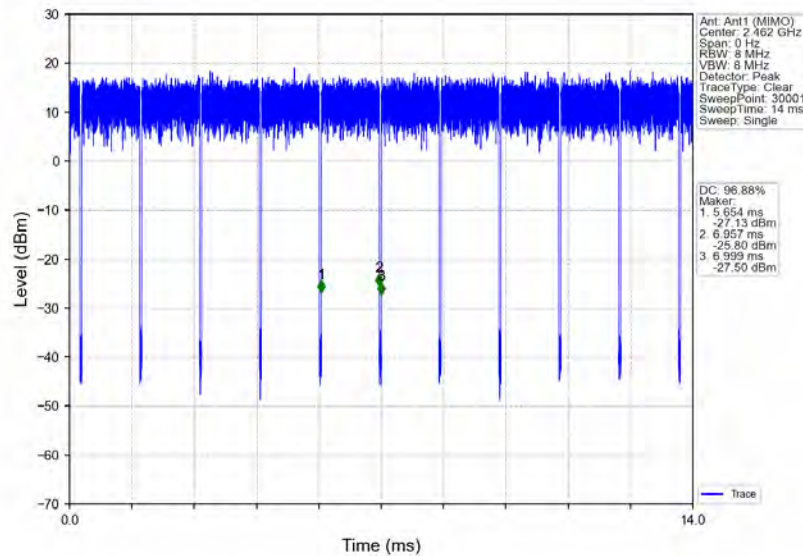
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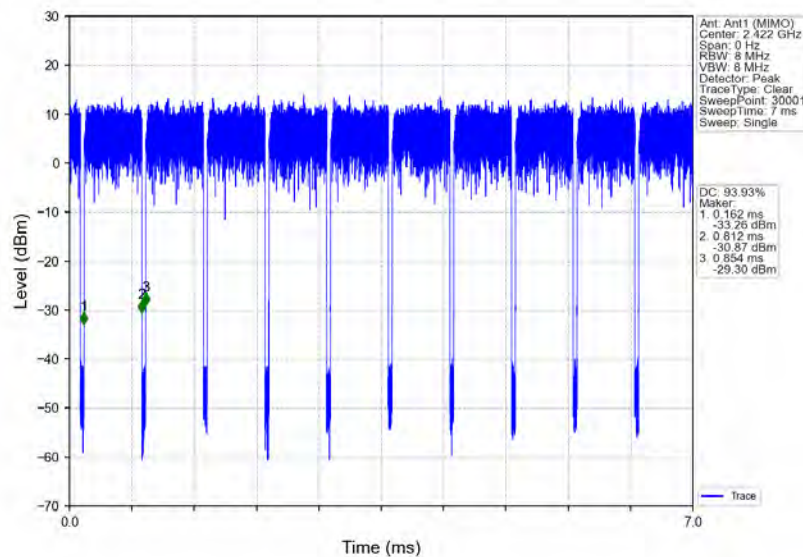
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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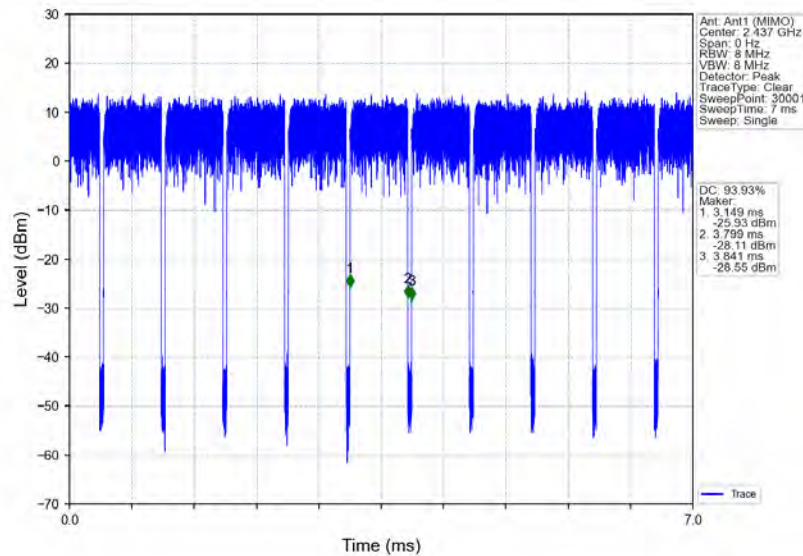
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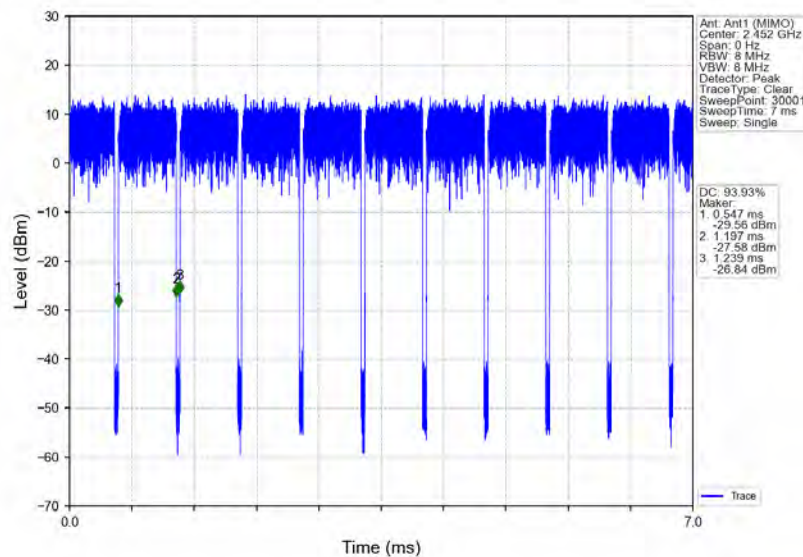
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	13.344	Pass
			2	13.402	Pass
		2437	1	13.408	Pass
			2	13.402	Pass
		2462	1	13.413	Pass
			2	13.404	Pass
802.11g	SISO	2412	1	17.356	Pass
			2	17.366	Pass
		2437	1	17.362	Pass
			2	17.343	Pass
		2462	1	17.341	Pass
			2	17.377	Pass
802.11n (HT20)	MIMO	2412	1	18.118	Pass
			2	17.757	Pass
		2437	1	18.105	Pass
			2	17.815	Pass
		2462	1	18.064	Pass
			2	17.784	Pass
802.11n (HT40)	MIMO	2422	1	36.266	Pass
			2	36.583	Pass
		2437	1	36.108	Pass
			2	36.433	Pass
		2452	1	36.153	Pass
			2	36.566	Pass



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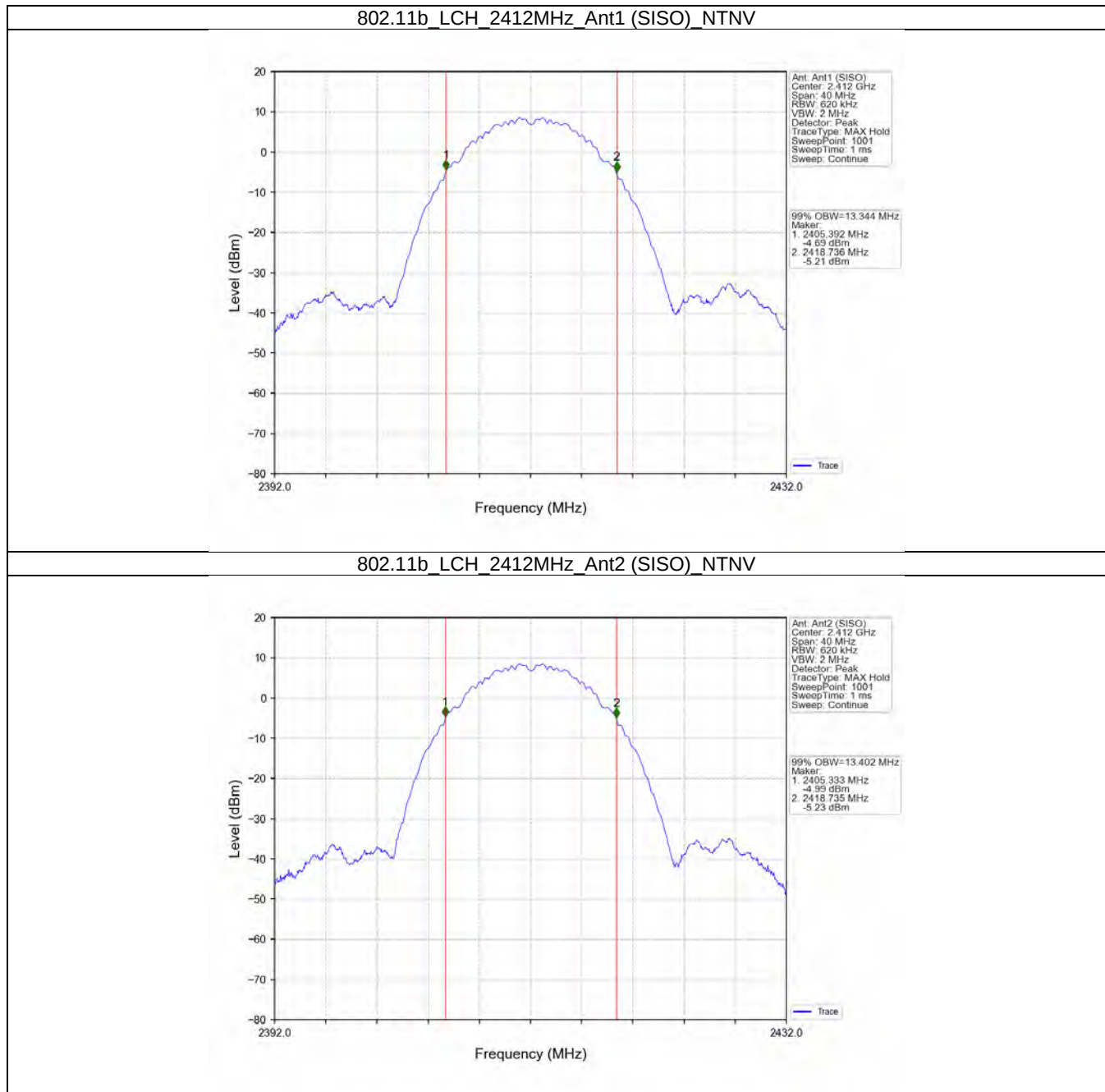
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2.1.2 Test Graph



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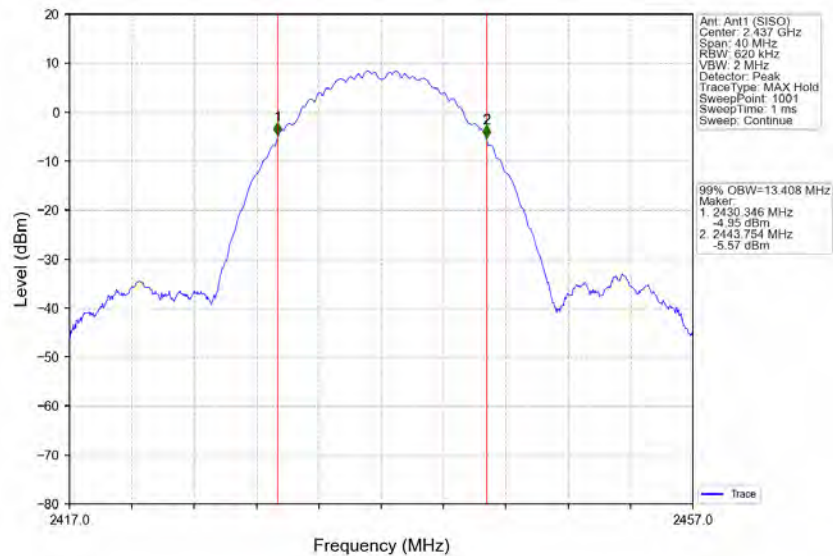
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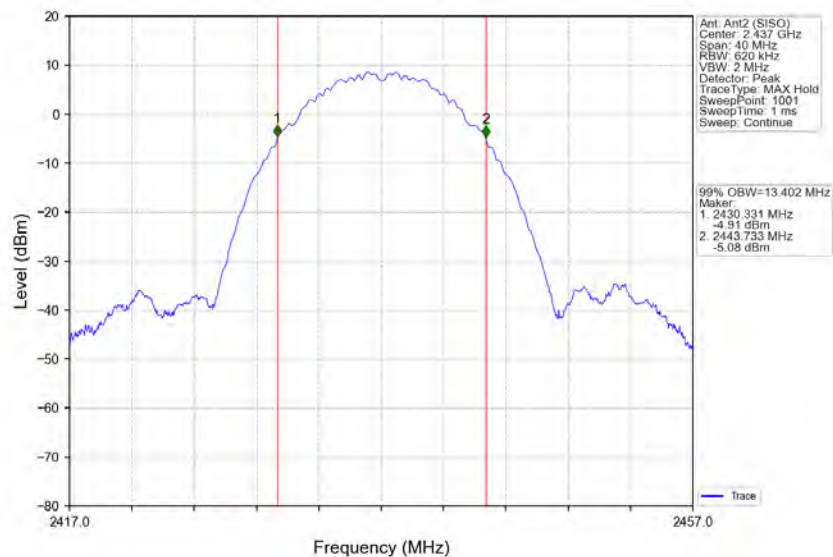
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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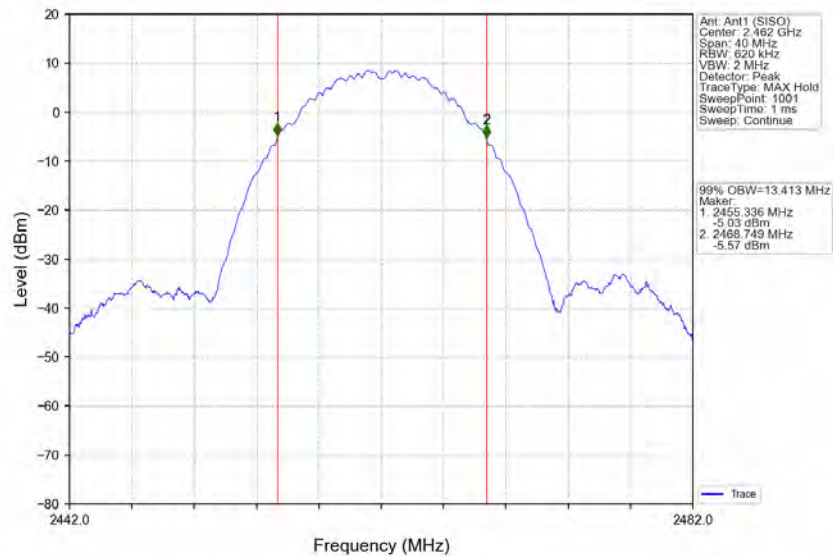
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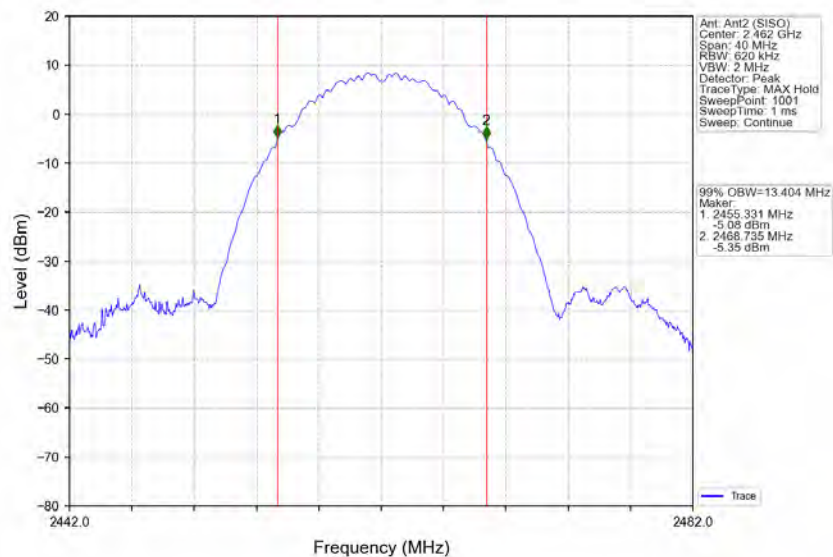
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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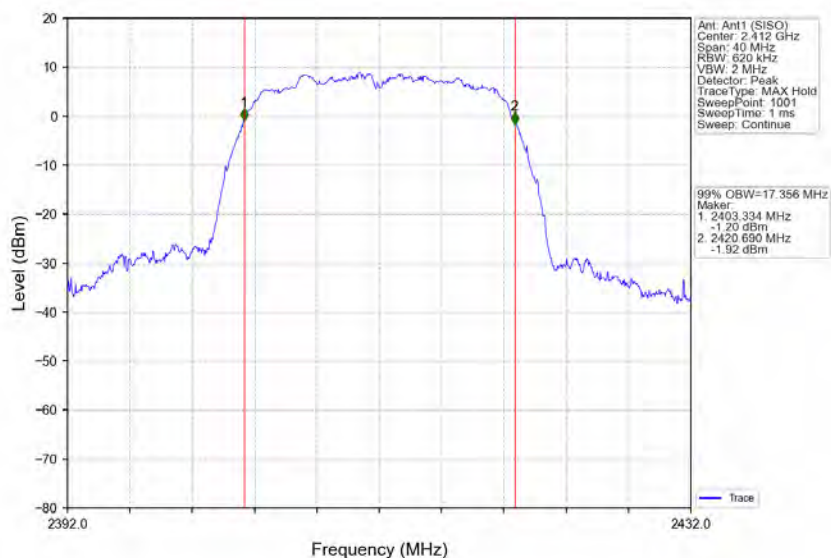
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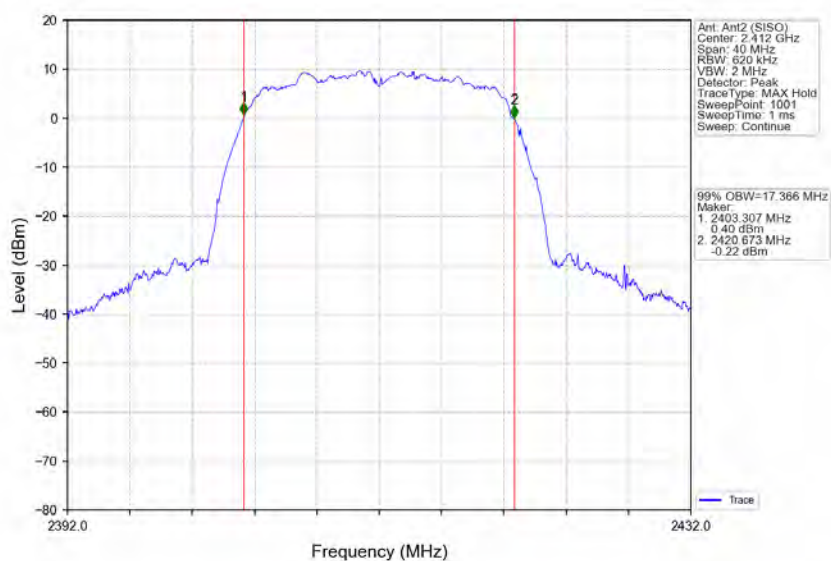
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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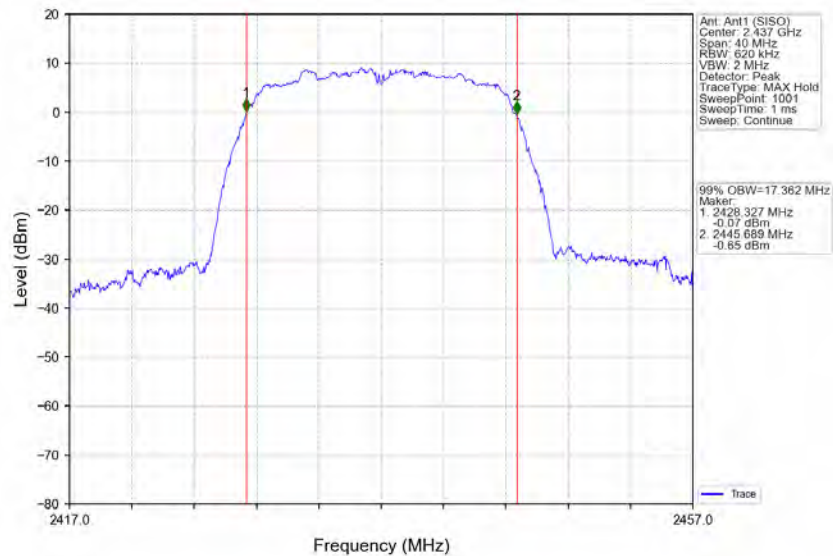
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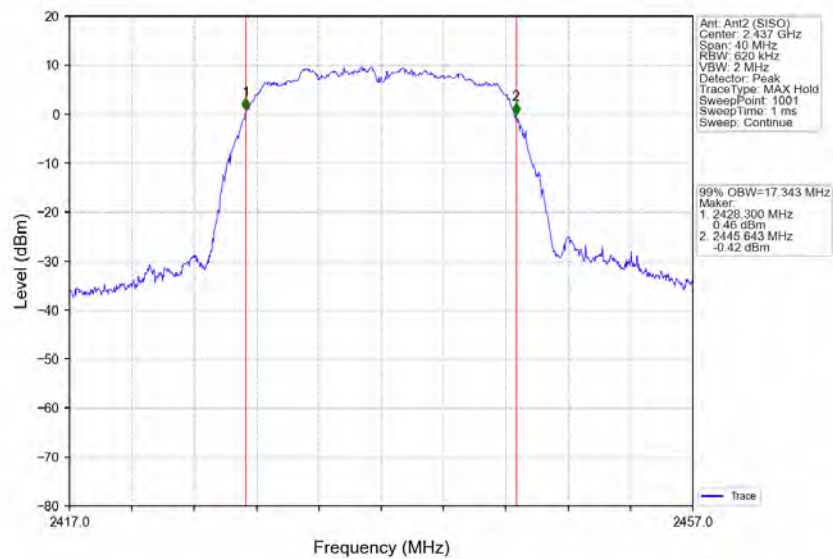
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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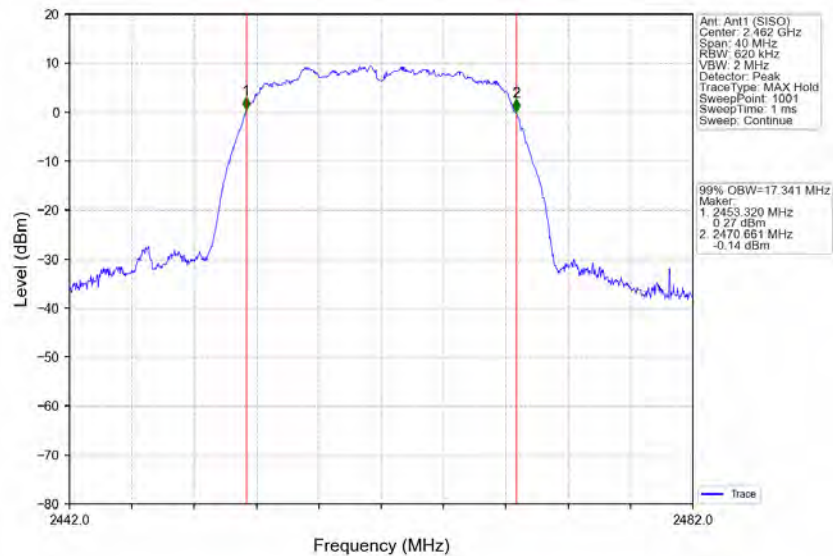
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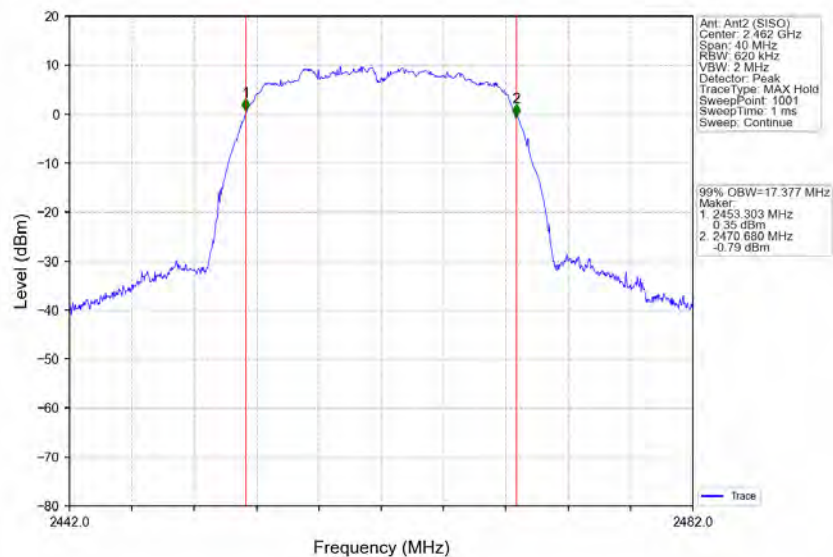
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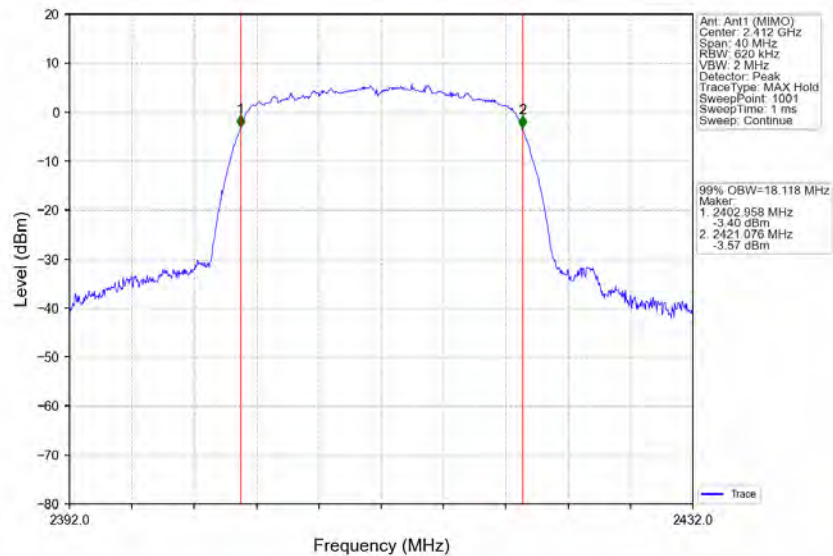
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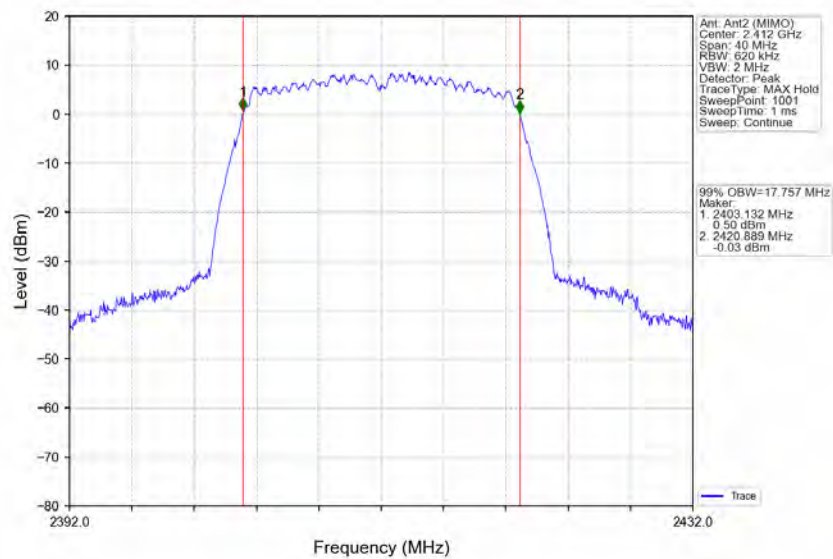
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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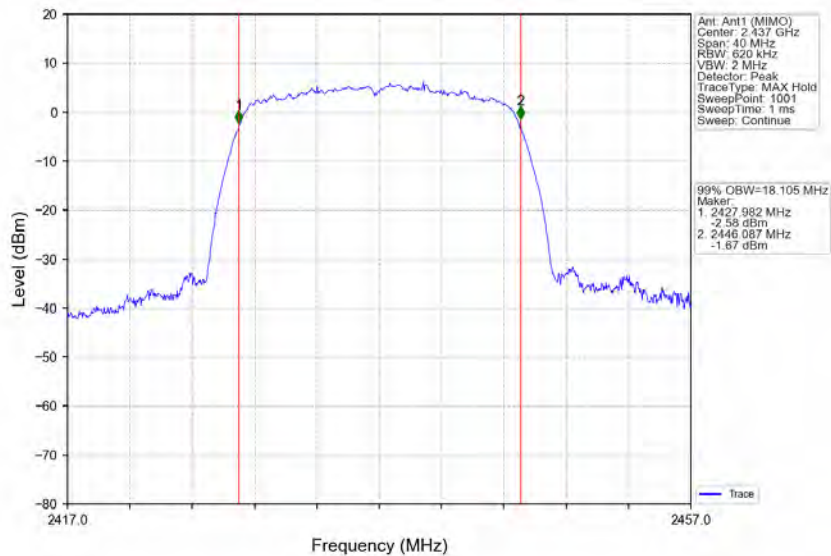
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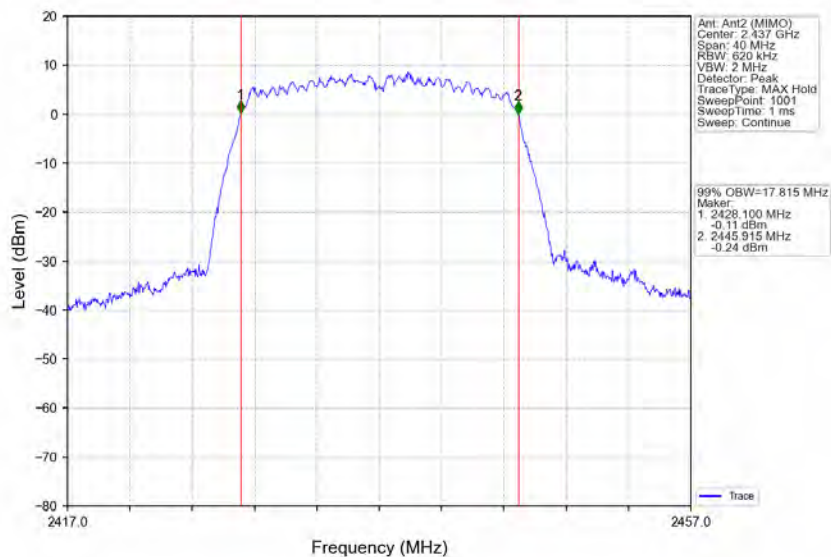
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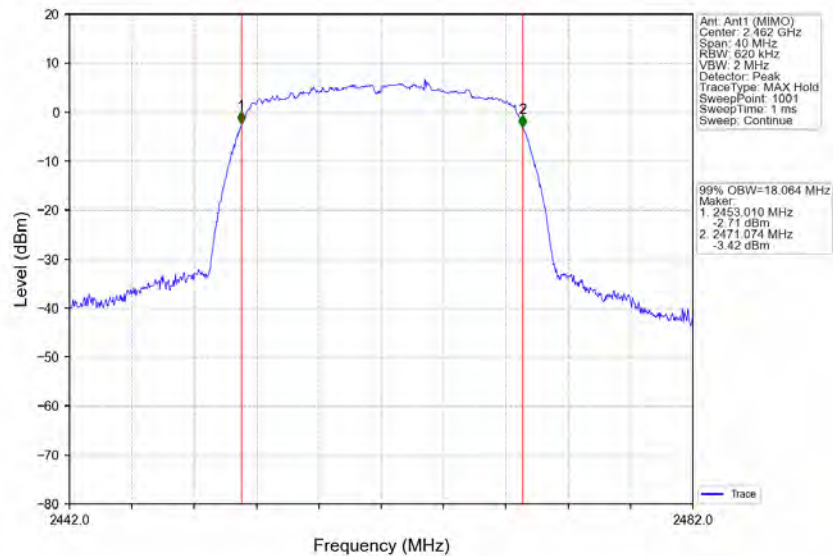
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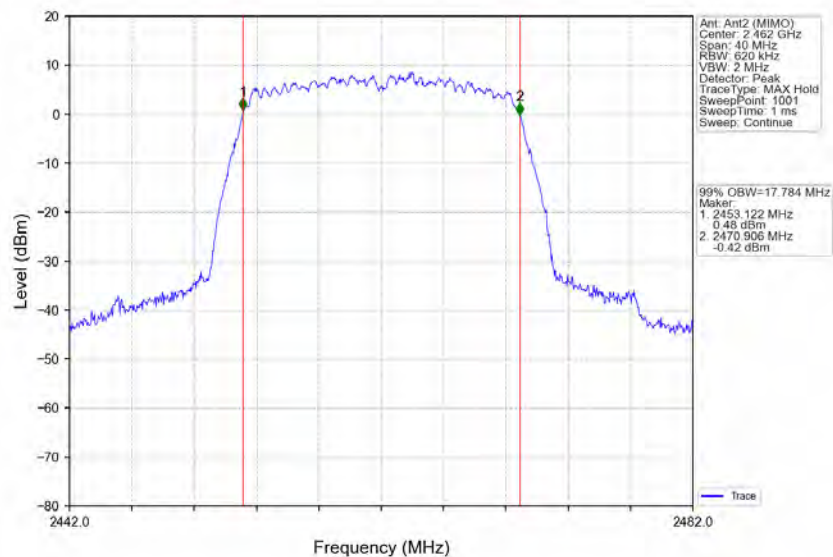
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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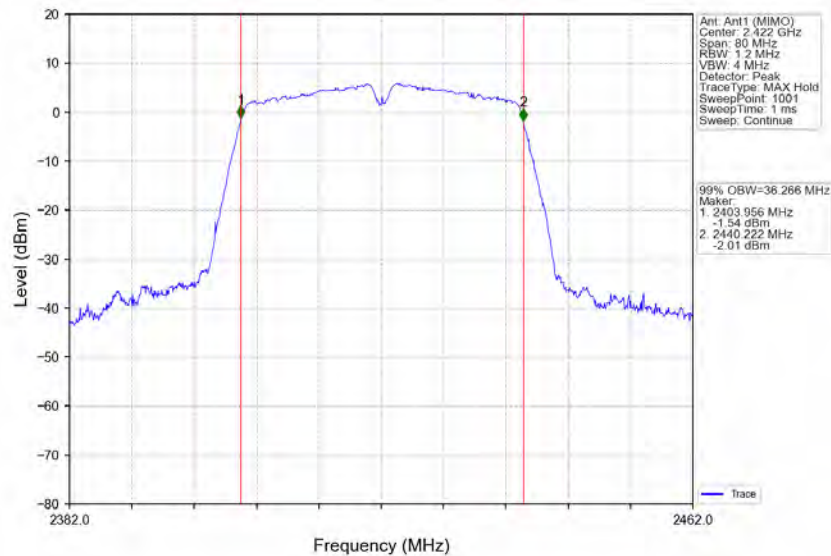
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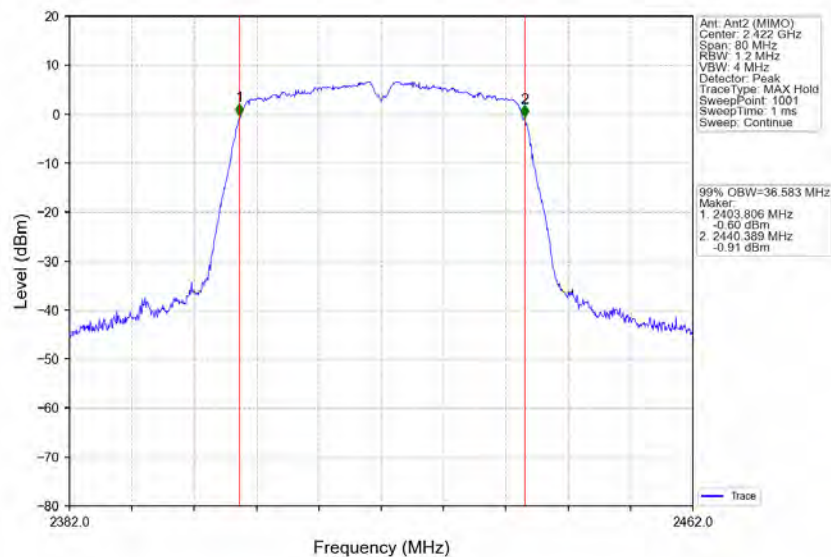
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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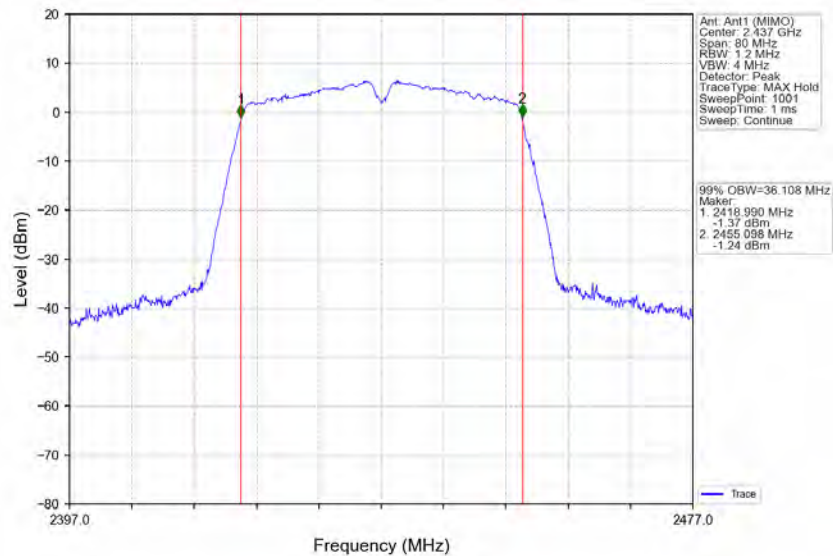
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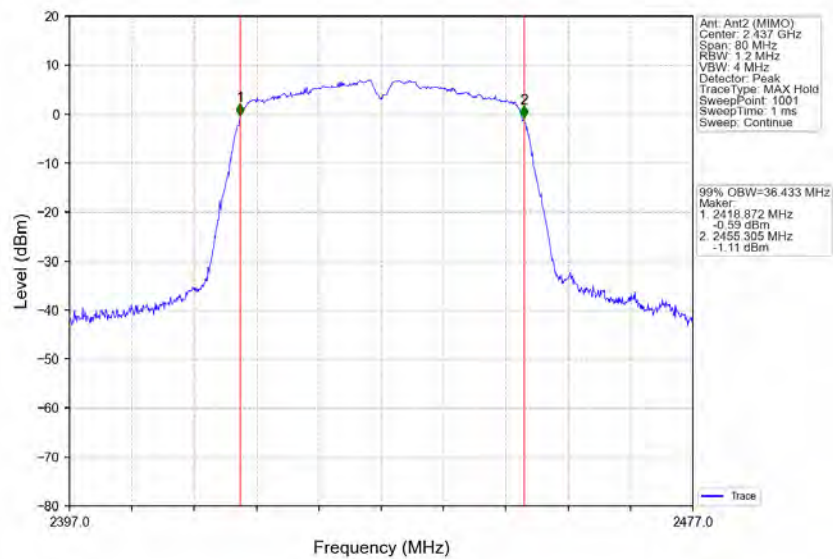
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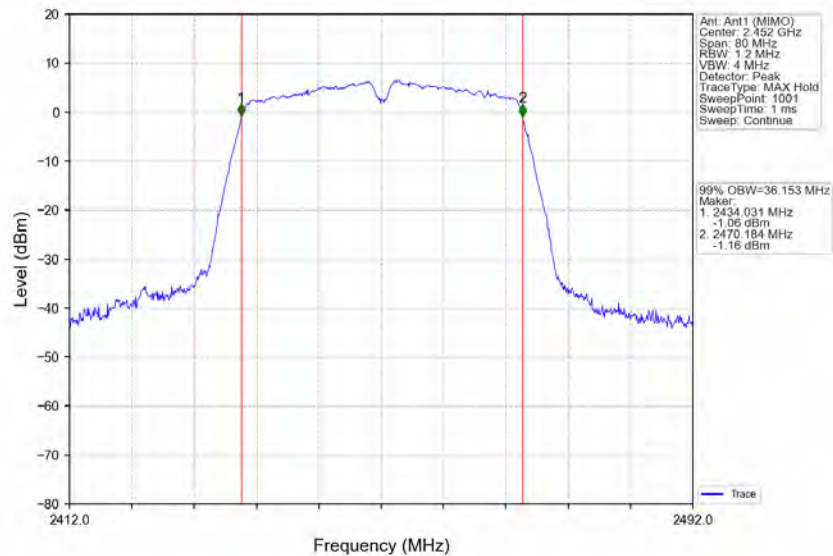
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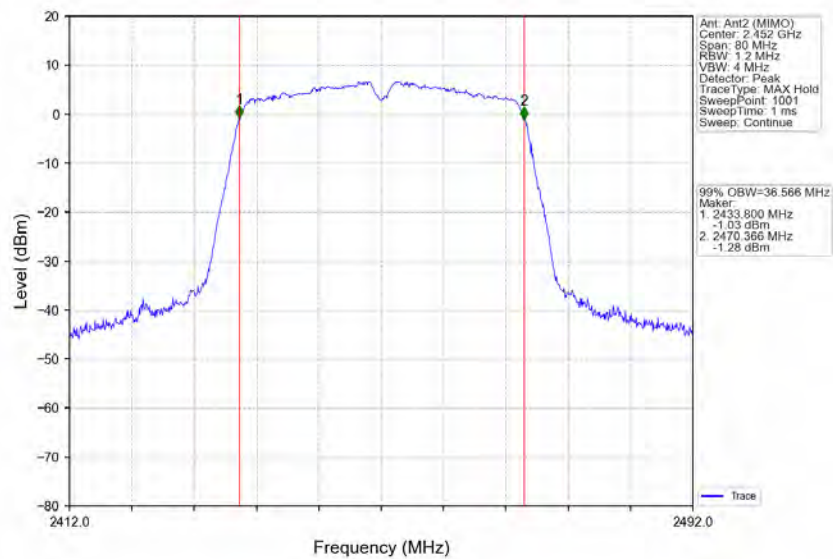
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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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	9.101	≥ 0.5	Pass
			2	9.089	≥ 0.5	Pass
		2437	1	9.082	≥ 0.5	Pass
			2	9.102	≥ 0.5	Pass
		2462	1	9.102	≥ 0.5	Pass
			2	9.102	≥ 0.5	Pass
802.11g	SISO	2412	1	15.159	≥ 0.5	Pass
			2	15.155	≥ 0.5	Pass
		2437	1	15.161	≥ 0.5	Pass
			2	15.160	≥ 0.5	Pass
		2462	1	15.160	≥ 0.5	Pass
			2	15.146	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.131	≥ 0.5	Pass
			2	15.739	≥ 0.5	Pass
		2437	1	15.152	≥ 0.5	Pass
			2	15.722	≥ 0.5	Pass
		2462	1	15.160	≥ 0.5	Pass
			2	15.740	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.328	≥ 0.5	Pass
			2	35.150	≥ 0.5	Pass
		2437	1	35.139	≥ 0.5	Pass
			2	35.127	≥ 0.5	Pass
		2452	1	35.149	≥ 0.5	Pass
			2	35.152	≥ 0.5	Pass



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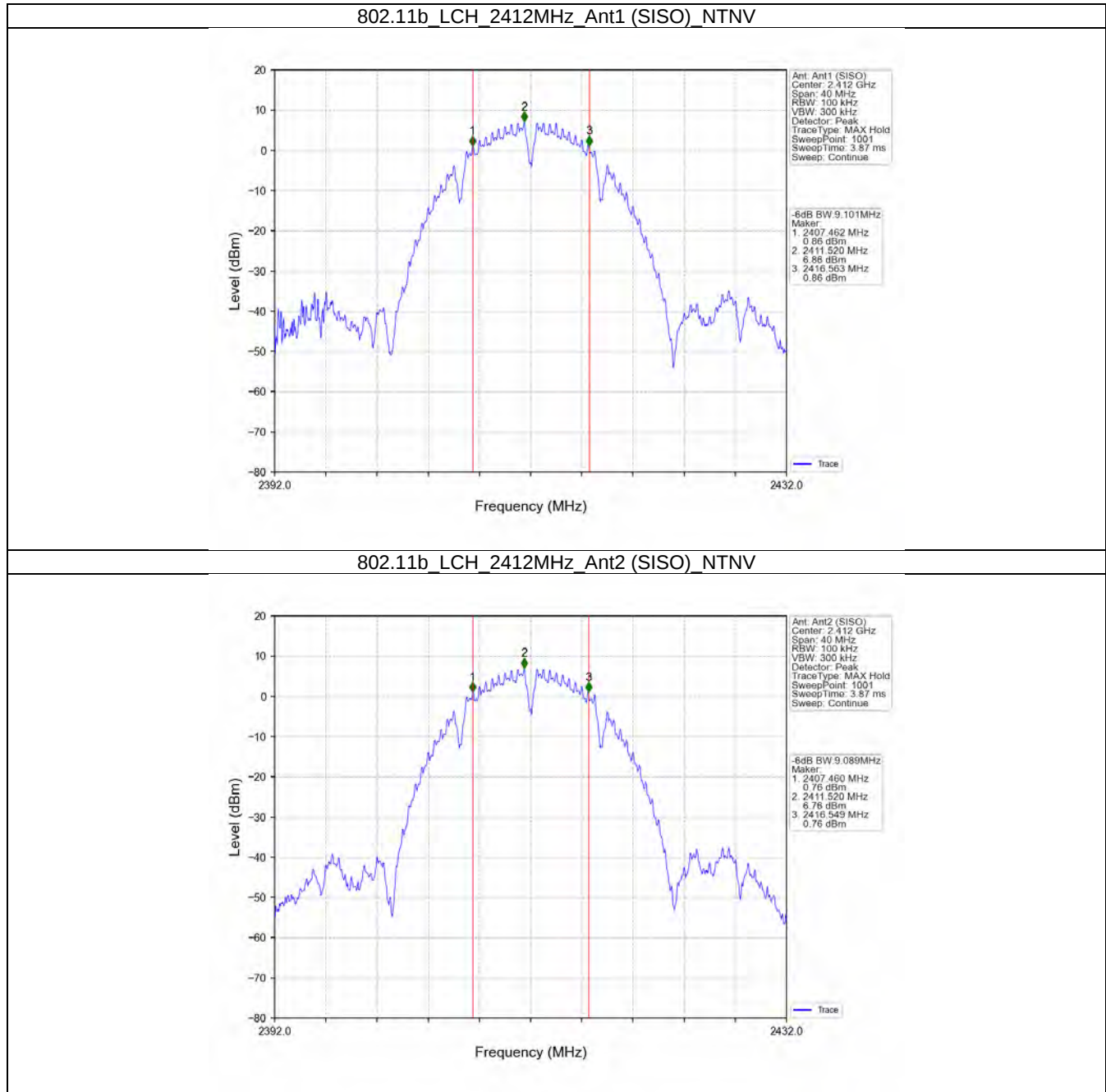
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2.2.2 Test Graph



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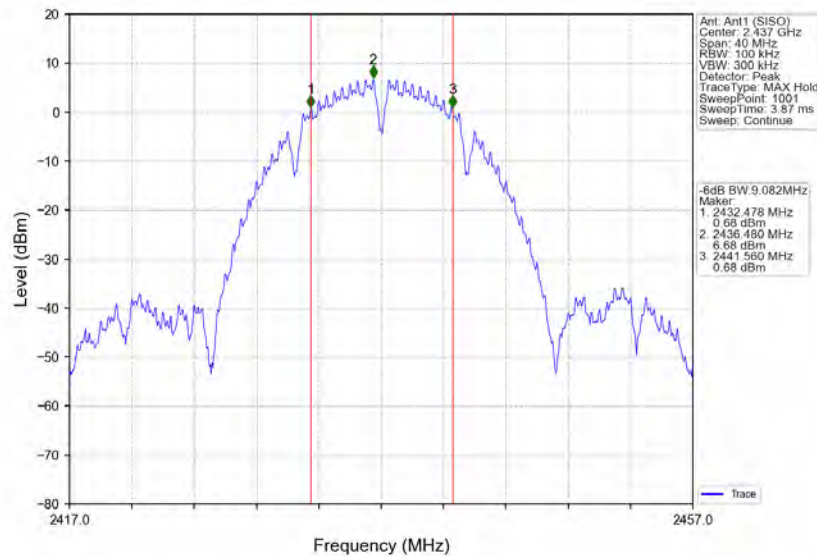
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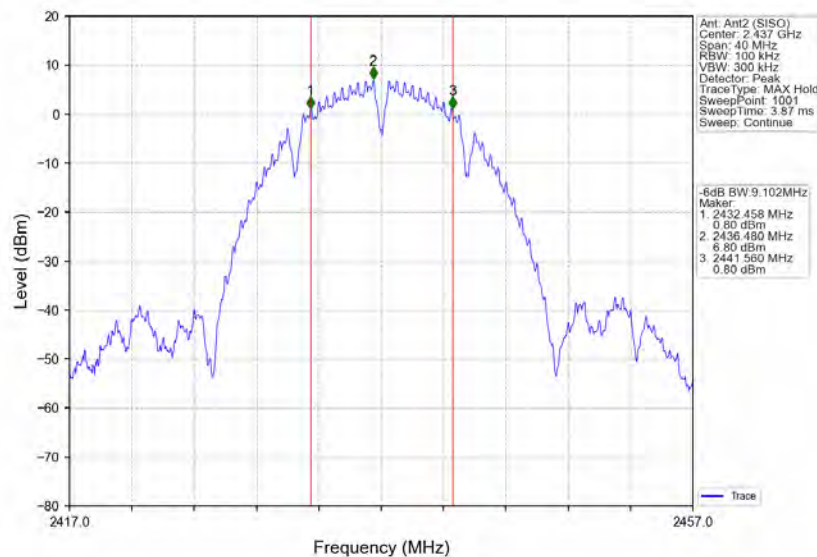
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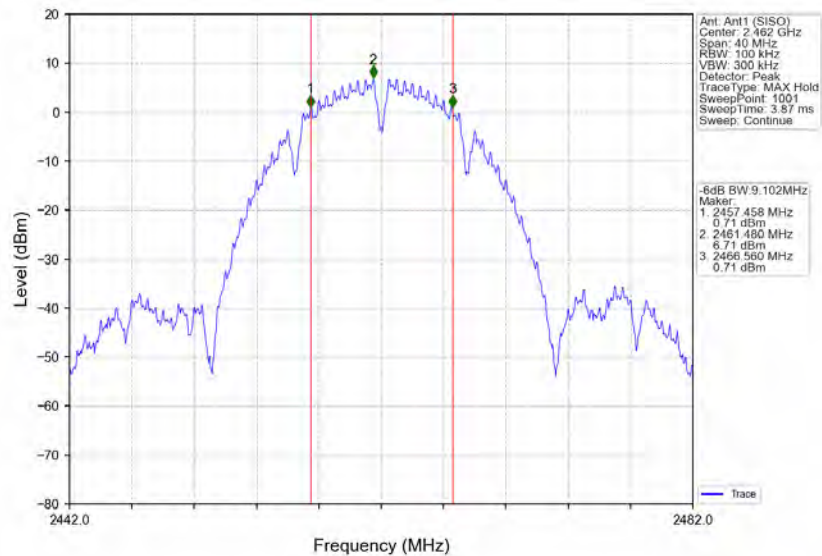
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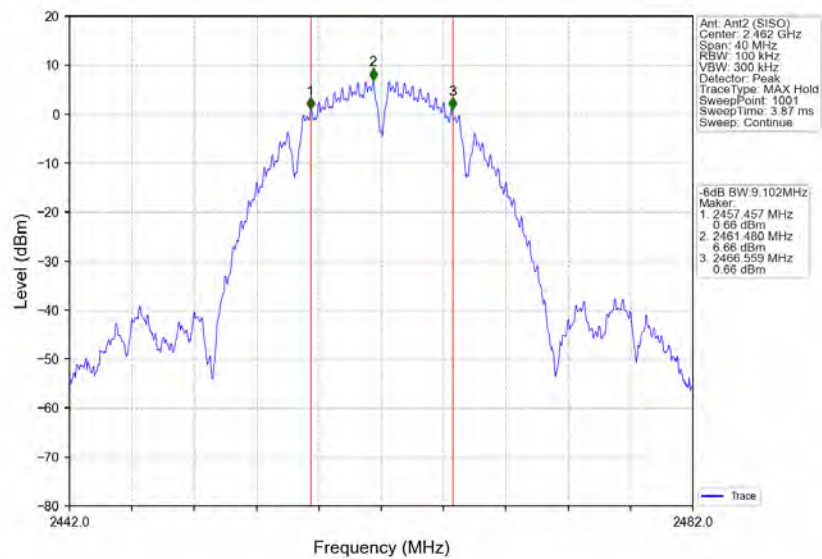
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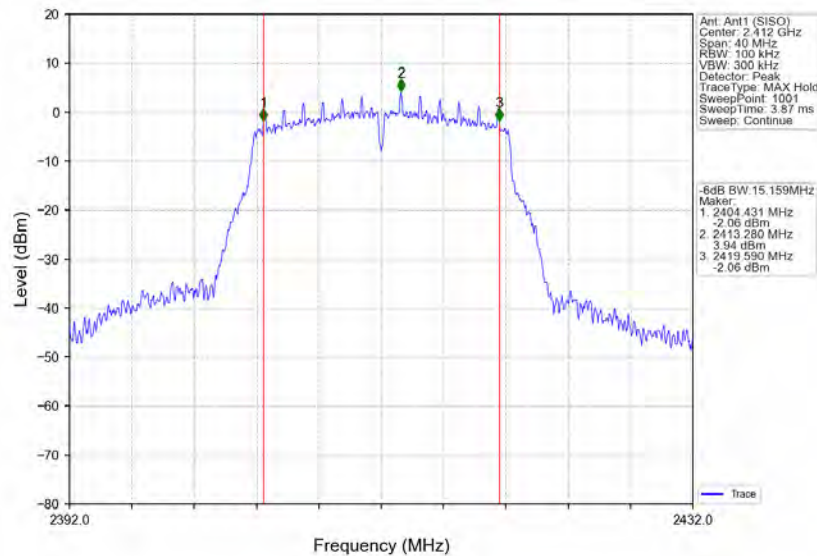
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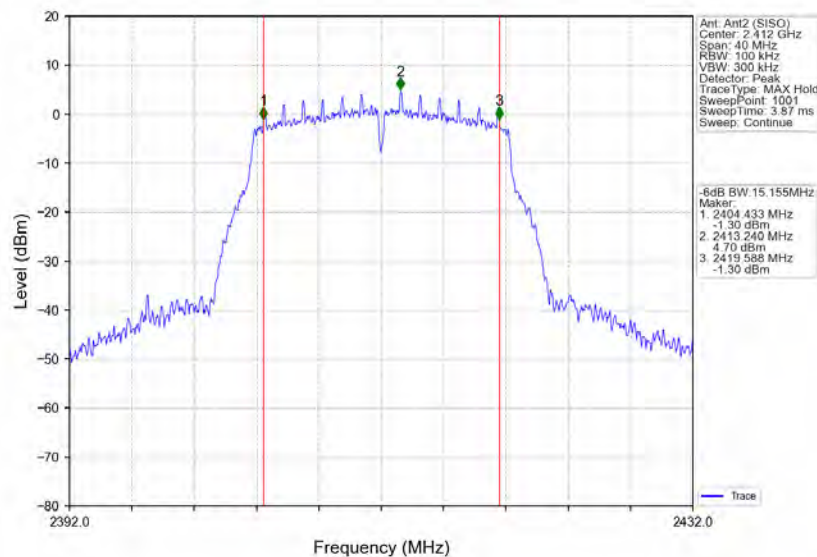
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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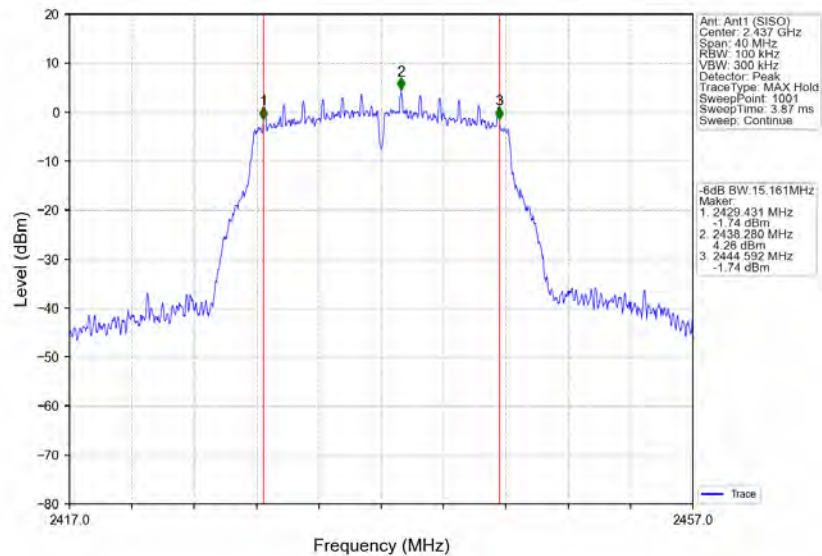
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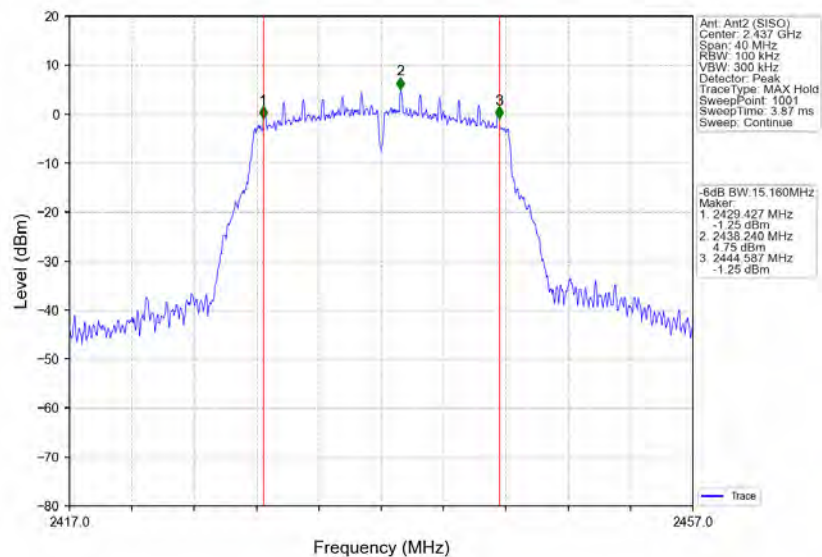
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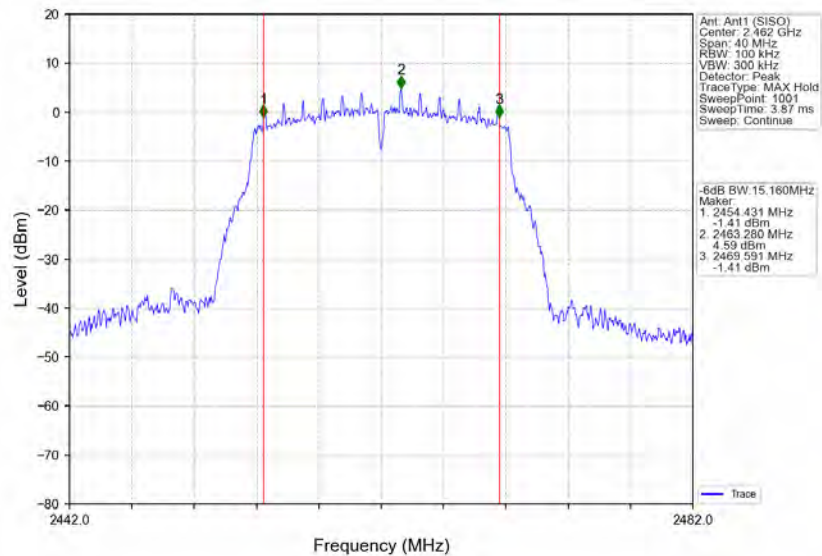
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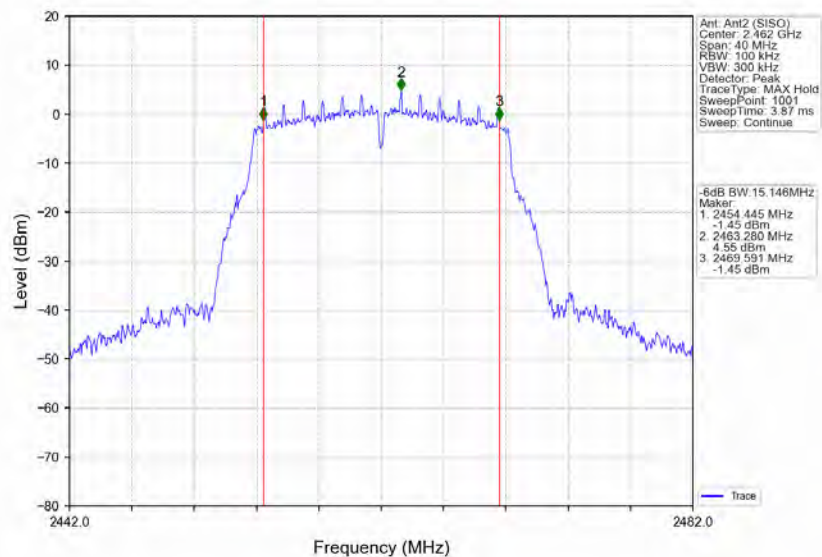
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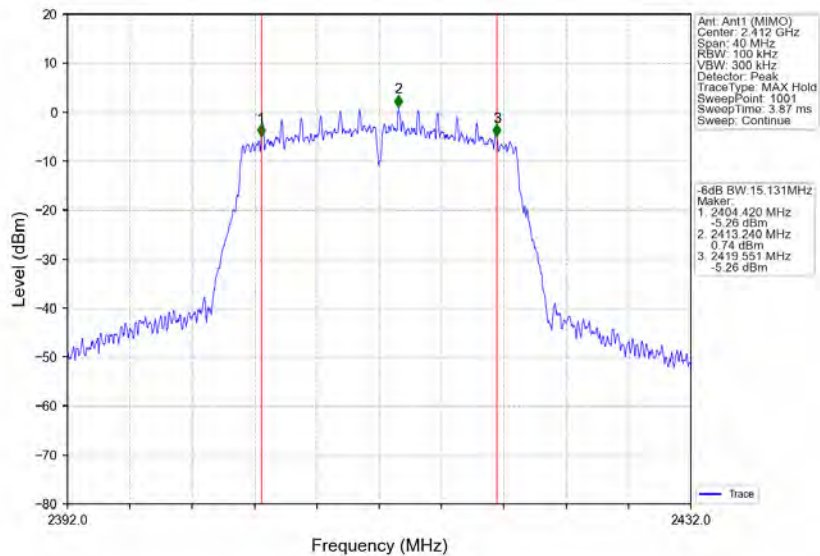
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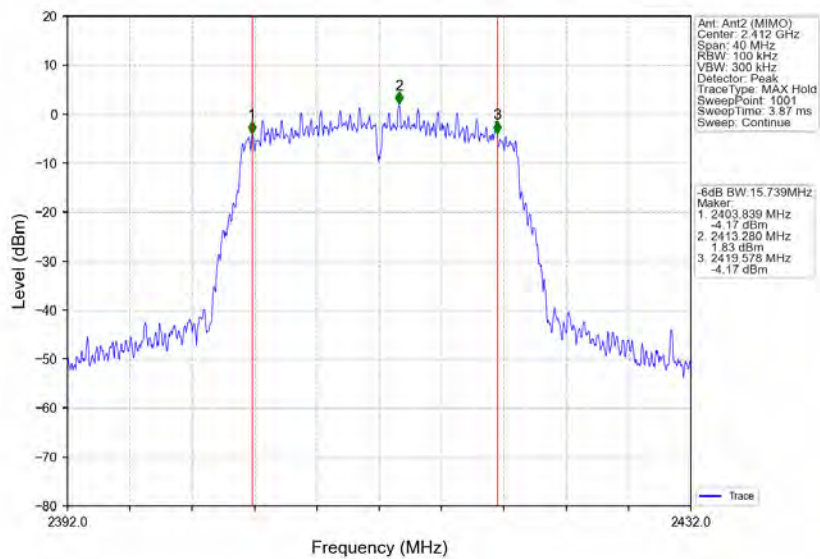
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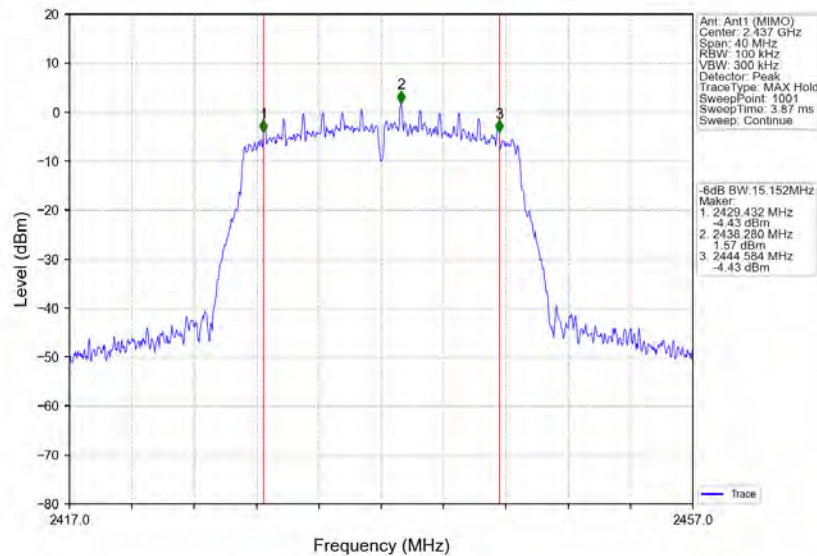
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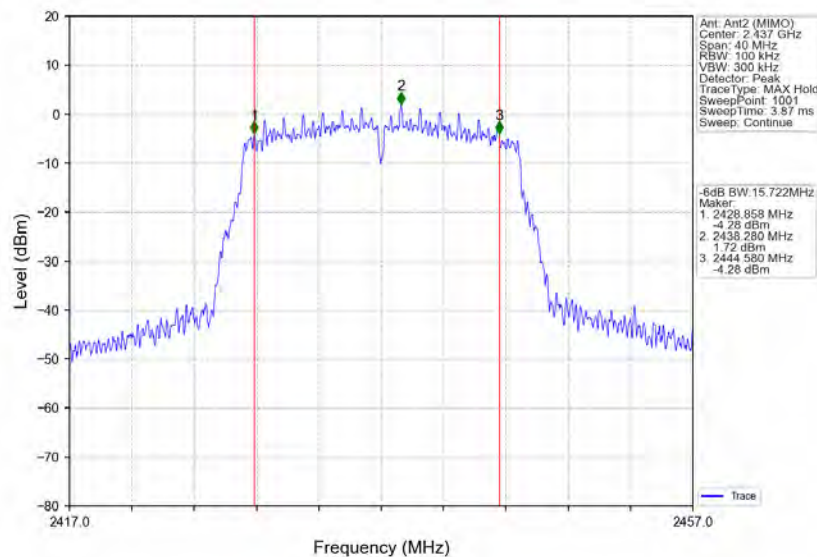
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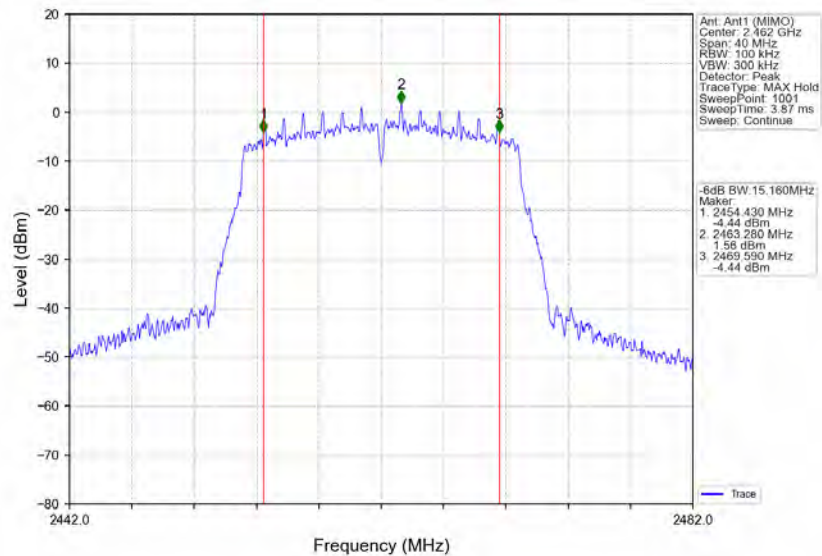
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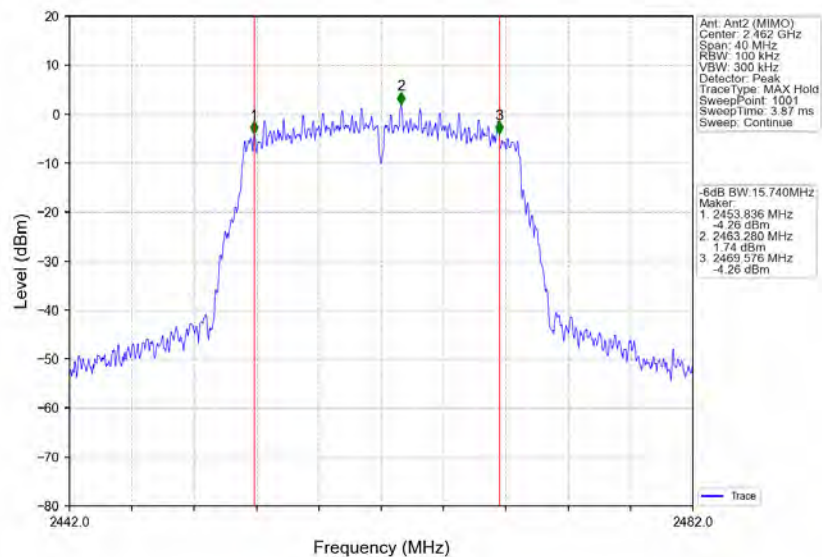
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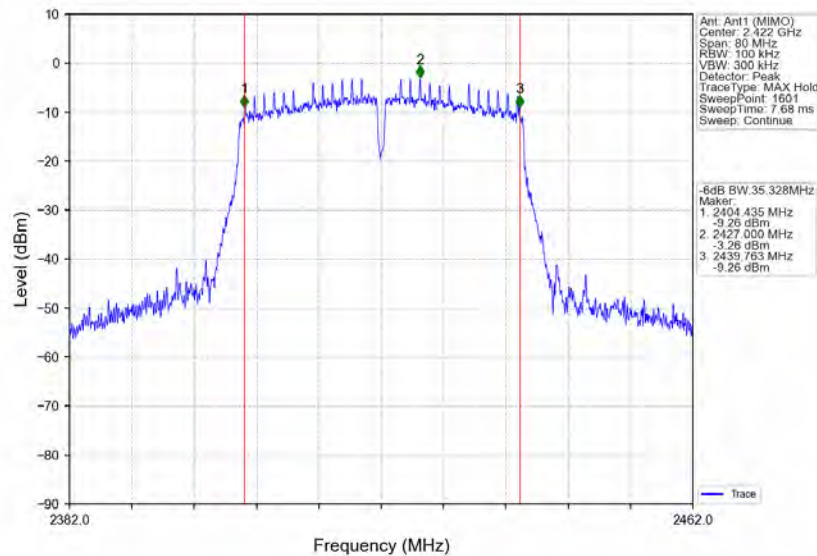
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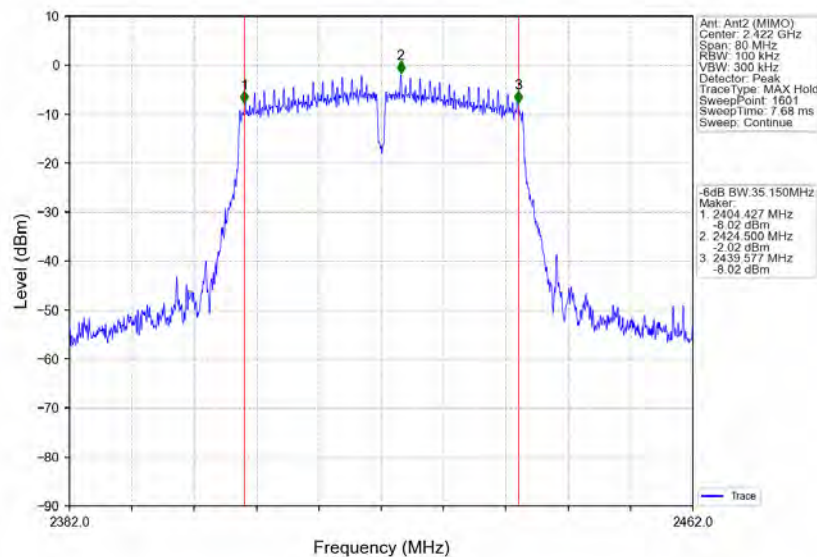
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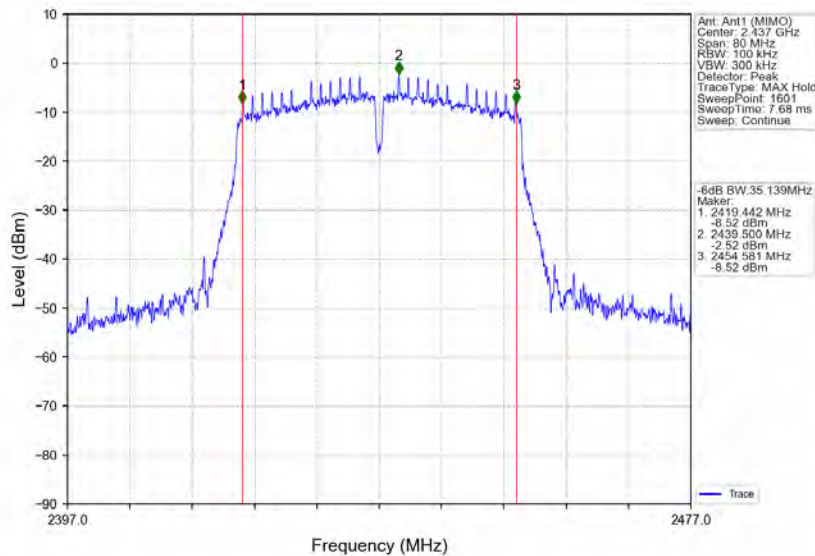
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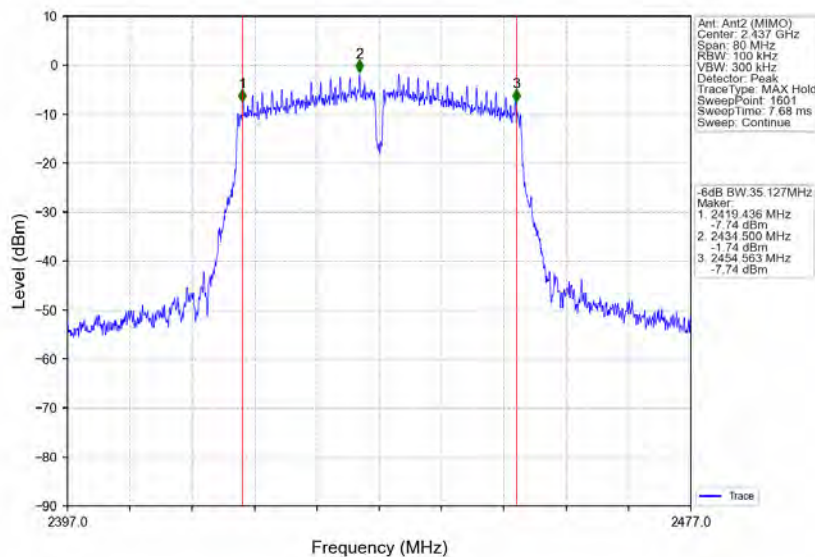
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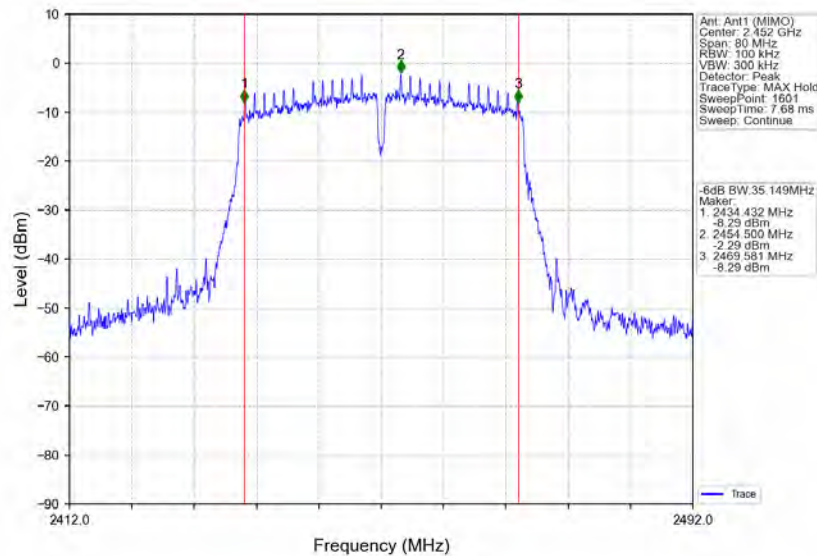
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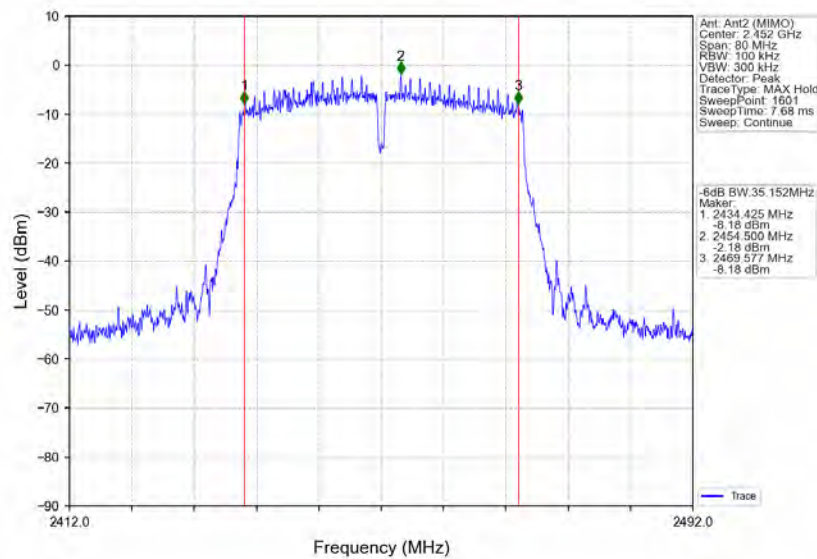
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3. Maximum Conducted Output Power

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	16.01	15.87	/	<=30	Pass
		2437	15.73	16.00	/	<=30	Pass
		2462	15.97	15.90	/	<=30	Pass
802.11g	SISO	2412	13.60	14.40	/	<=30	Pass
		2437	13.81	14.49	/	<=30	Pass
		2462	14.21	14.36	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.76	11.81	14.33	<=30	Pass
		2437	11.04	11.64	14.36	<=30	Pass
		2462	11.32	11.64	14.49	<=30	Pass
802.11n (HT40)	MIMO	2422	9.92	10.73	13.35	<=30	Pass
		2437	10.18	10.59	13.40	<=30	Pass
		2452	10.38	10.68	13.54	<=30	Pass

Note1: Antenna Gain: Ant1: 0.06dBi; Ant2: 2.65dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



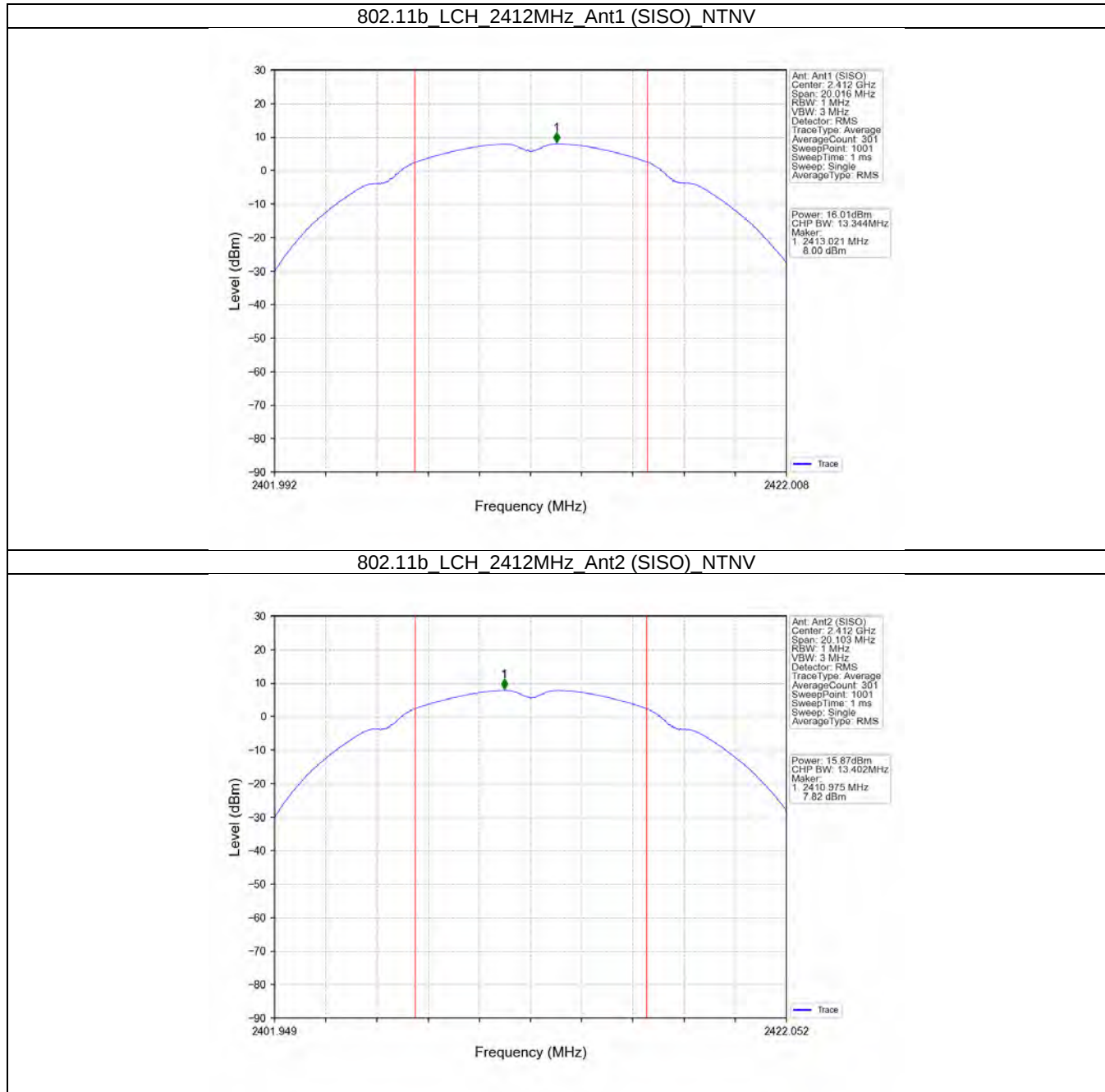
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3.1.2 Test Graph



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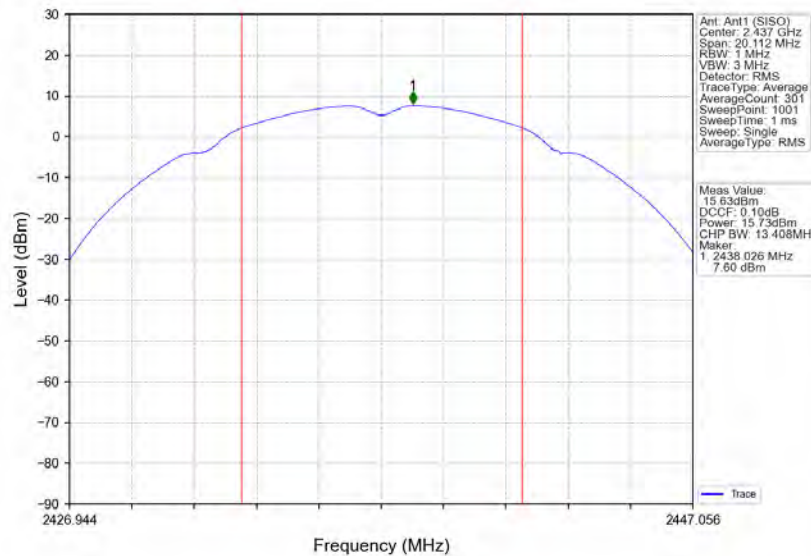
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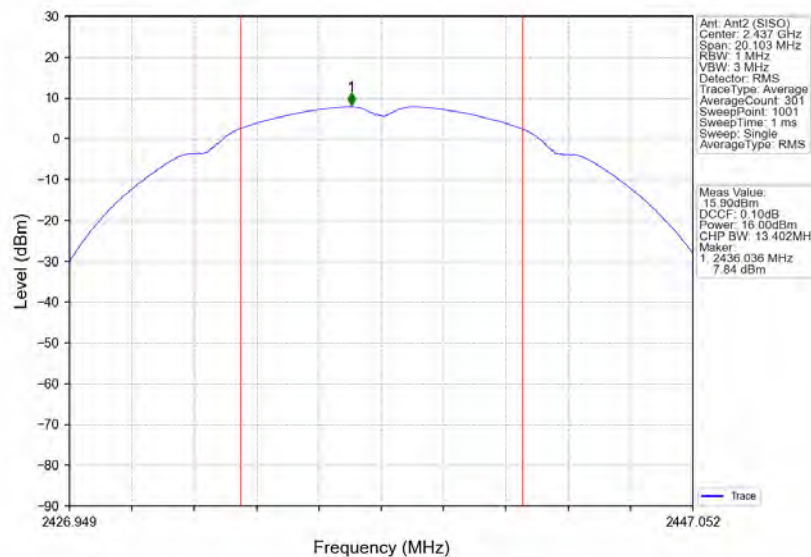
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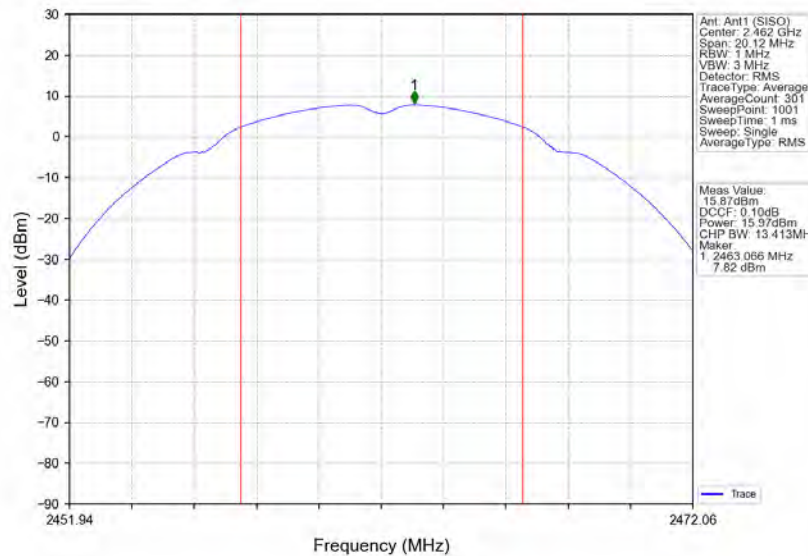
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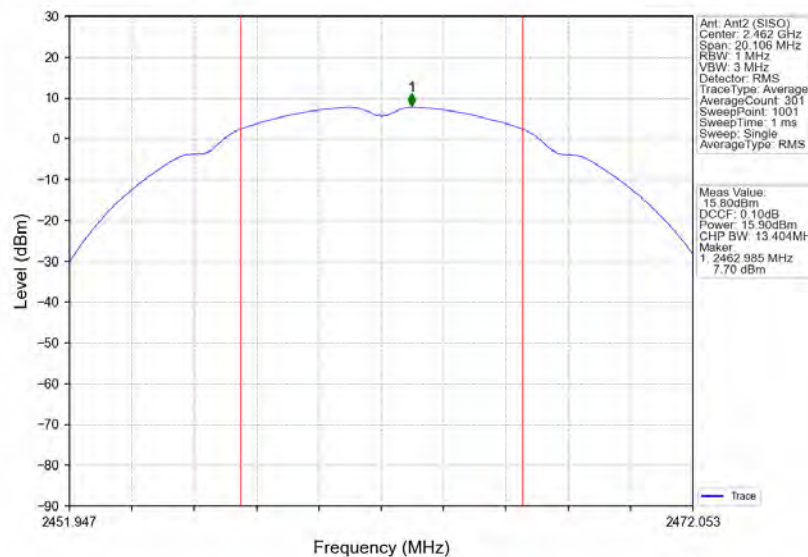
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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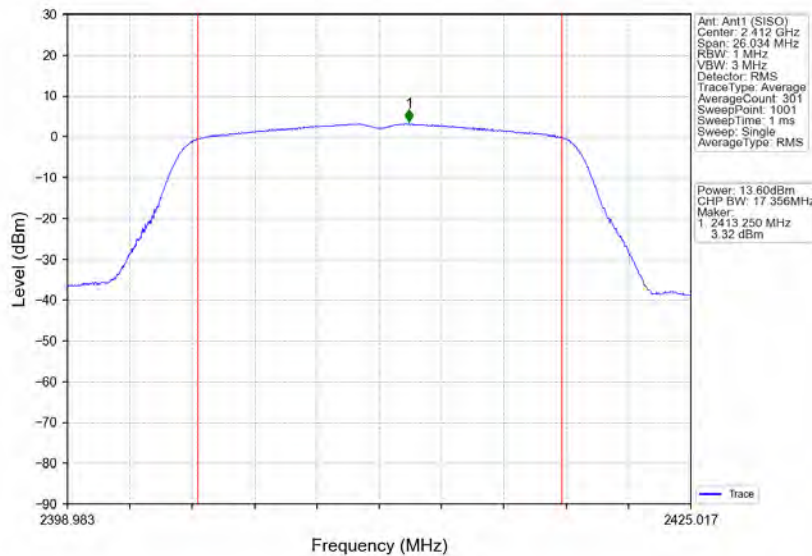
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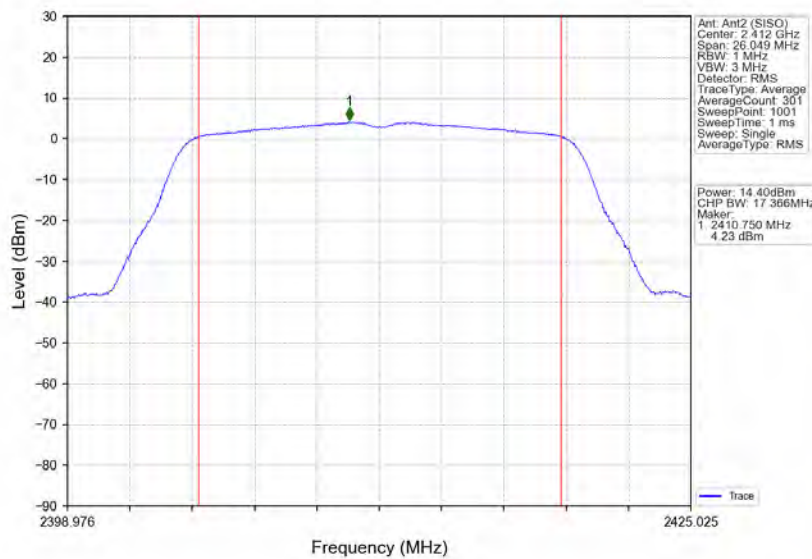
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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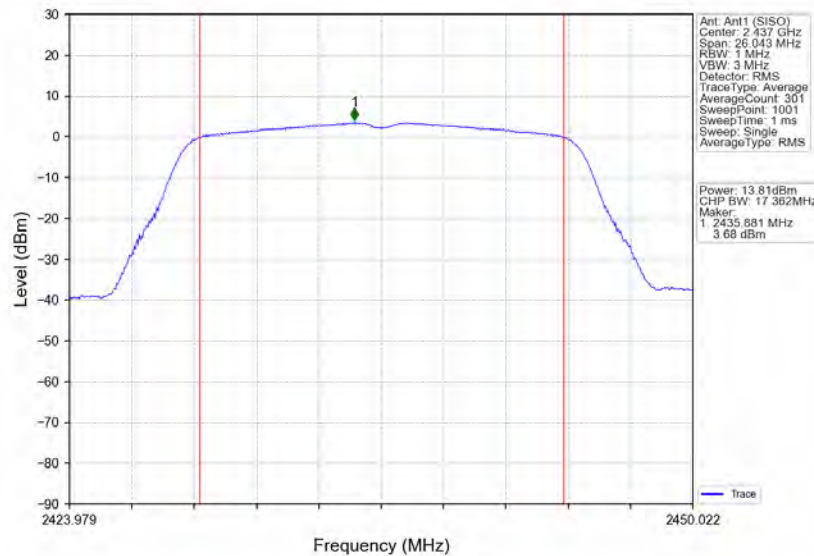
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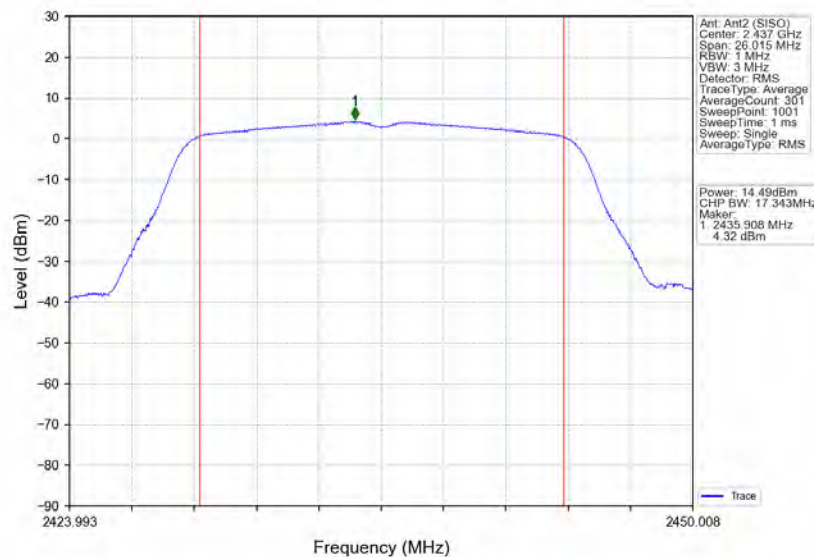
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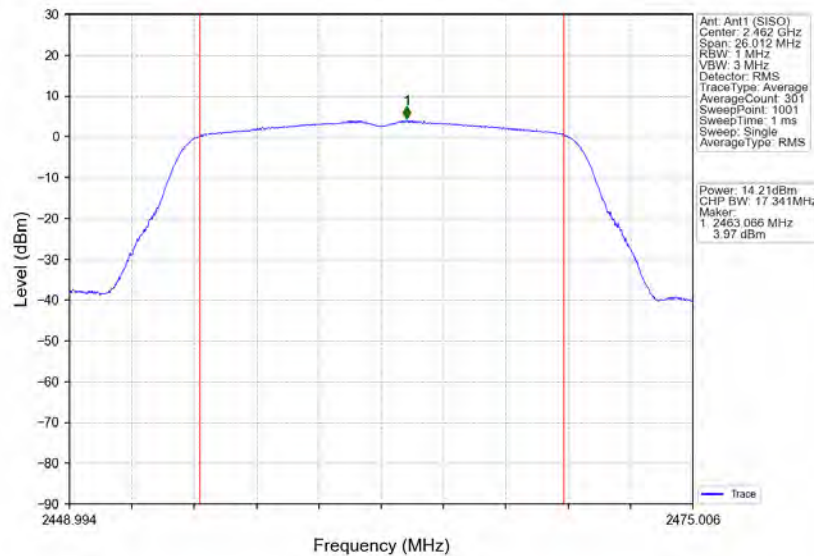
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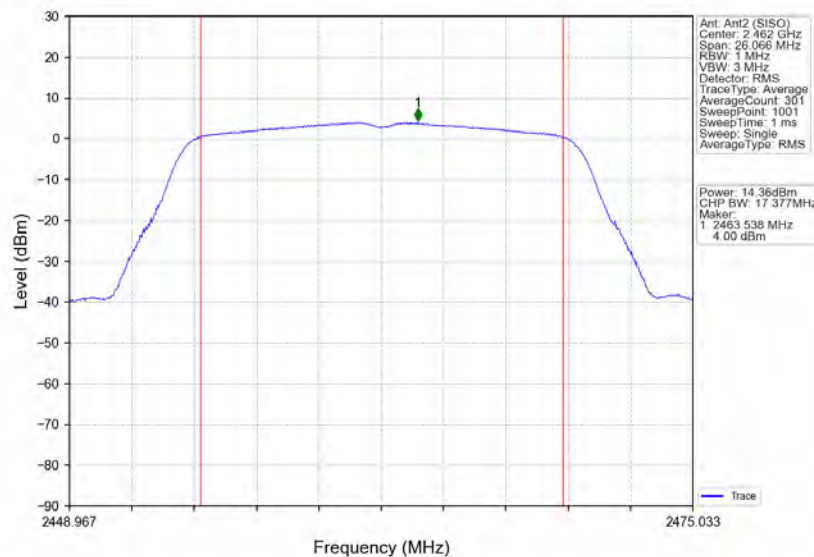
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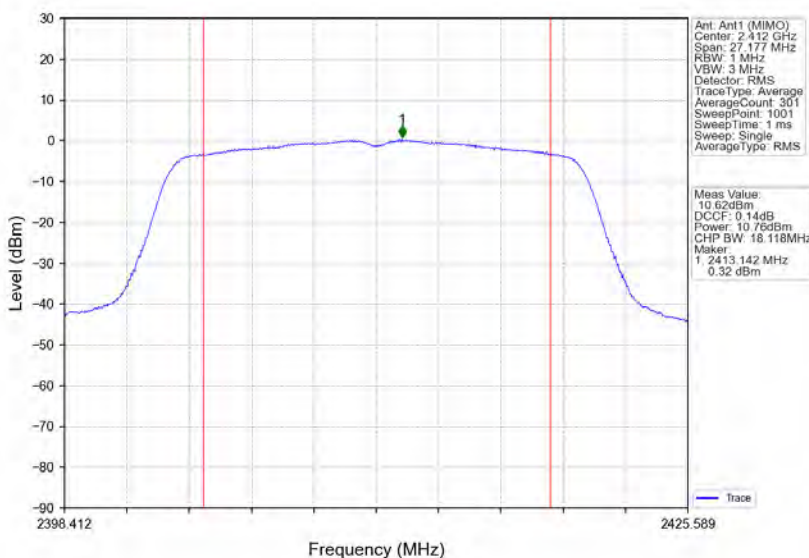
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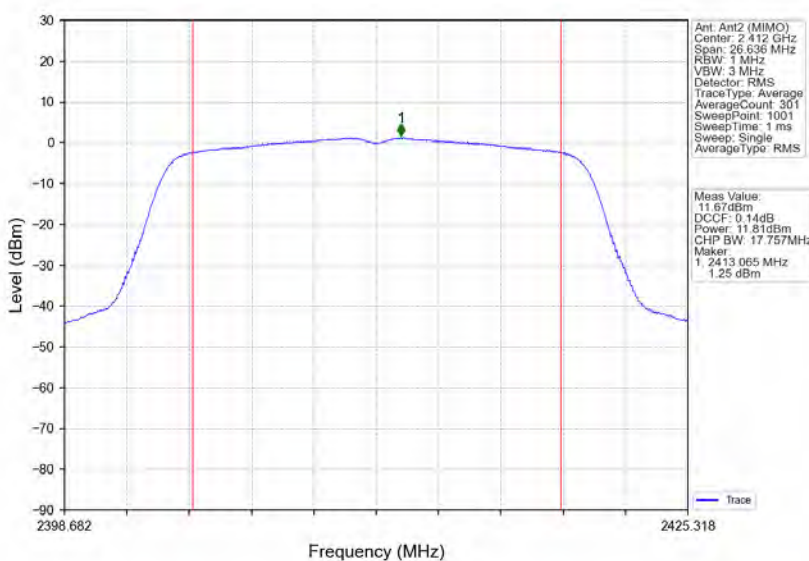
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO) NTN



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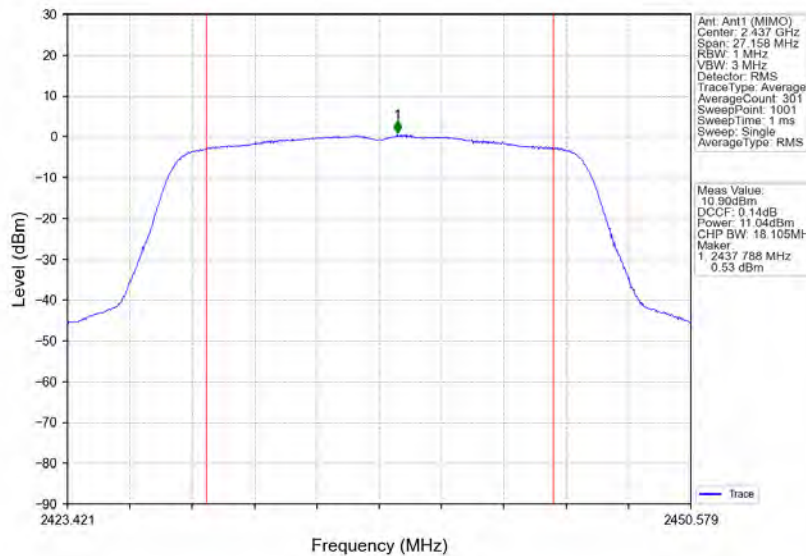
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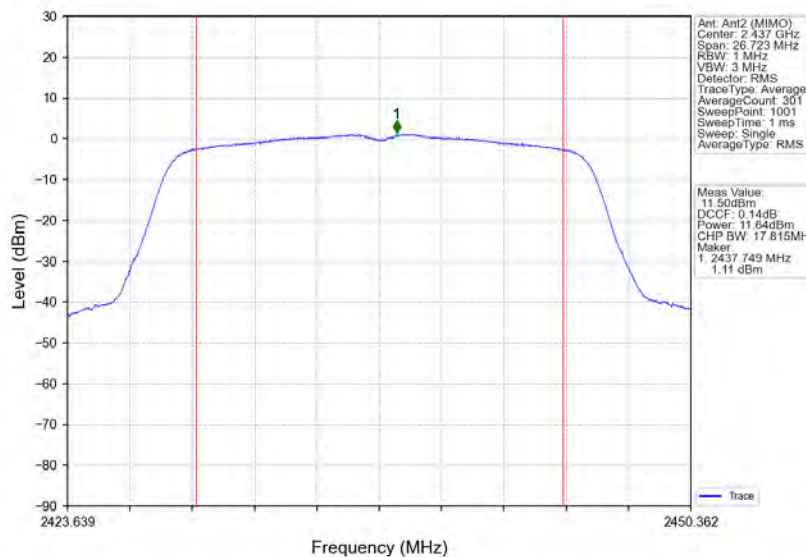
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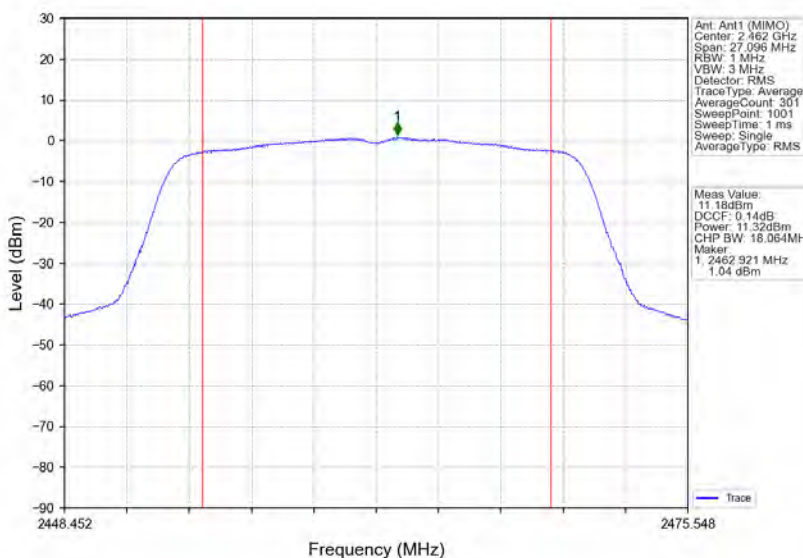
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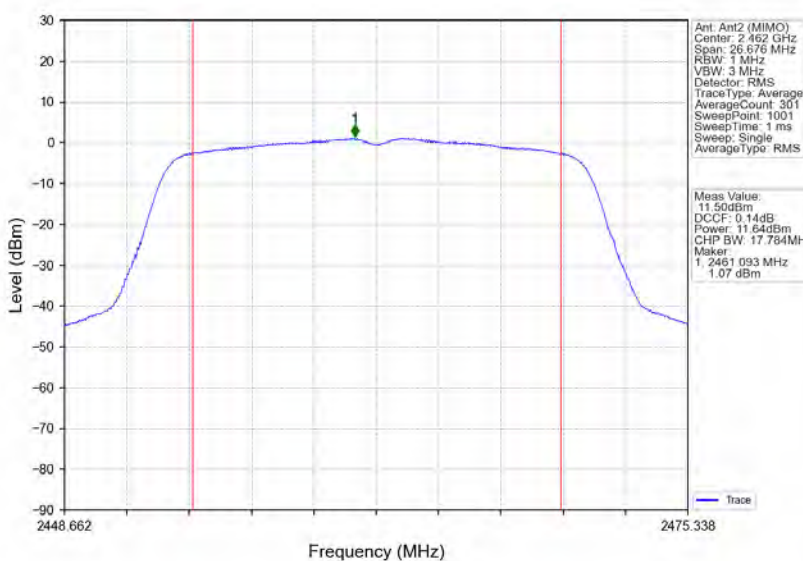
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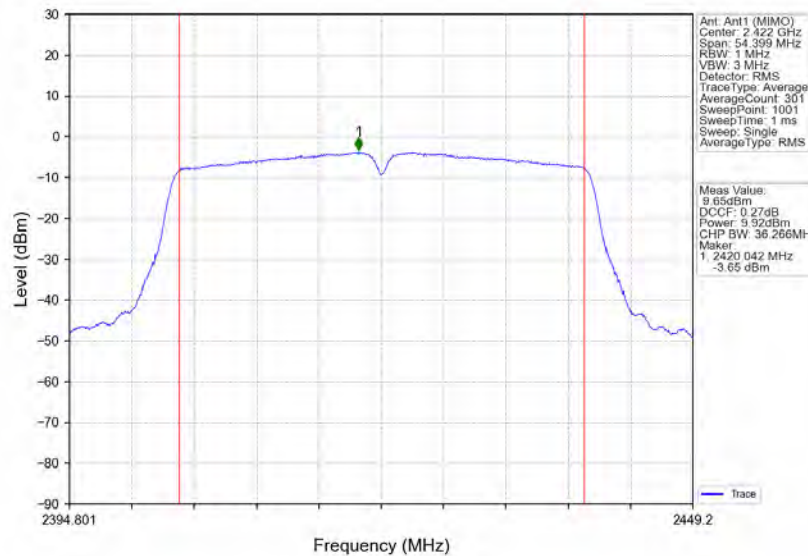
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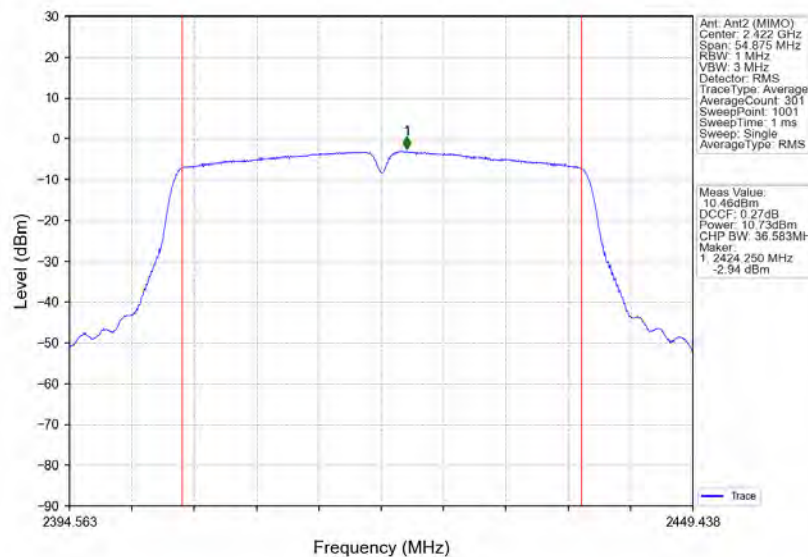
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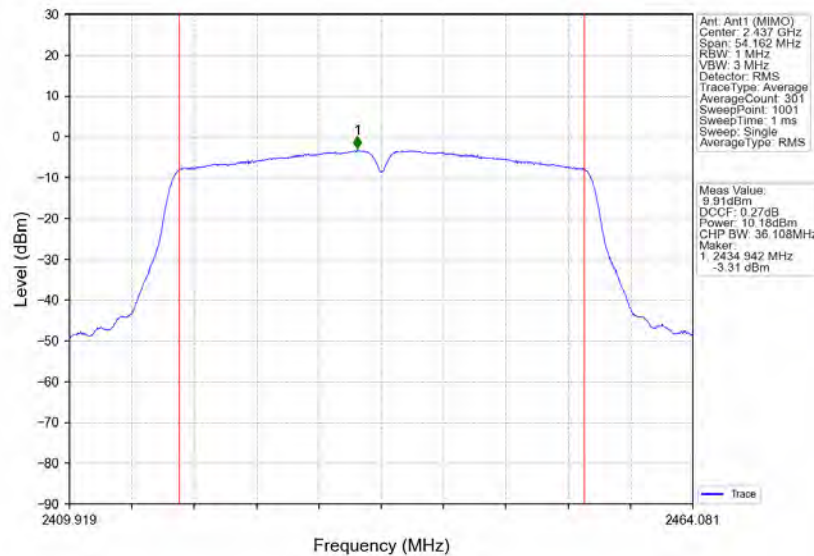
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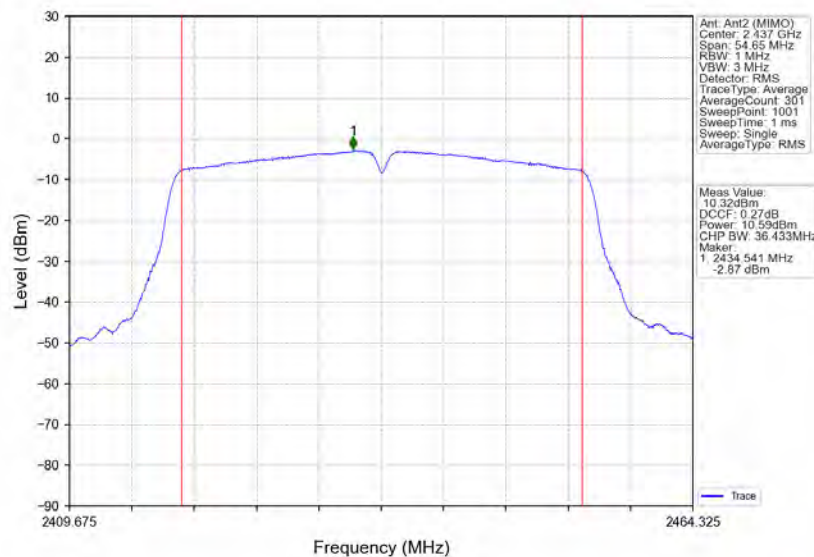
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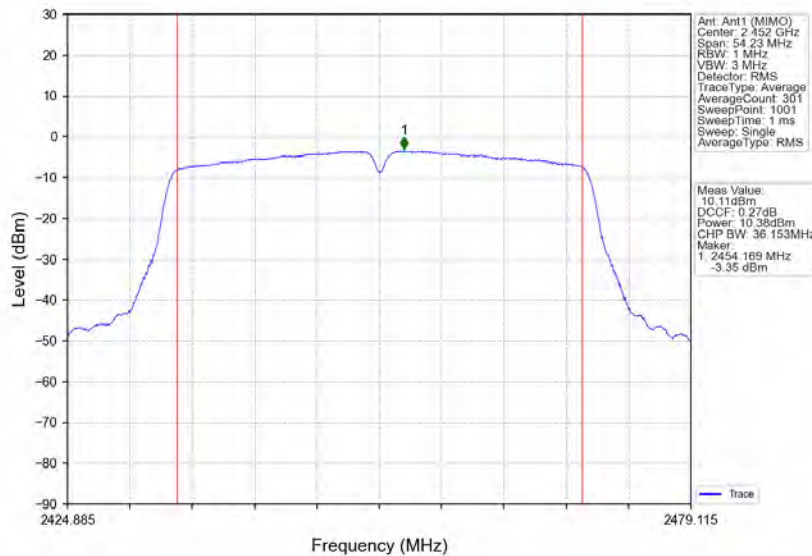
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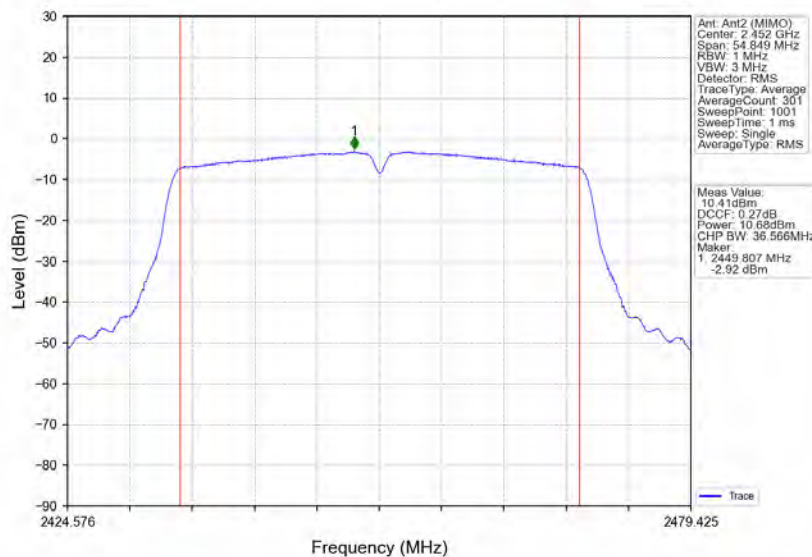
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4. Maximum Power Spectral Density

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	-8.04	-7.89	/	<=8	Pass
		2437	-7.36	-8.60	/	<=8	Pass
		2462	-8.95	-7.53	/	<=8	Pass
802.11g	SISO	2412	-12.99	-10.91	/	<=8	Pass
		2437	-12.38	-11.99	/	<=8	Pass
		2462	-12.80	-11.68	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.63	-14.68	-12.58	<=8	Pass
		2437	-16.09	-14.26	-12.47	<=8	Pass
		2462	-15.36	-14.14	-12.32	<=8	Pass
802.11n (HT40)	MIMO	2422	-19.12	-17.82	-15.67	<=8	Pass
		2437	-18.25	-17.63	-14.92	<=8	Pass
		2452	-18.12	-17.76	-15.34	<=8	Pass

Note1: Antenna Gain: Ant1: 0.06dBi; Ant2: 2.65dBi;
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain)



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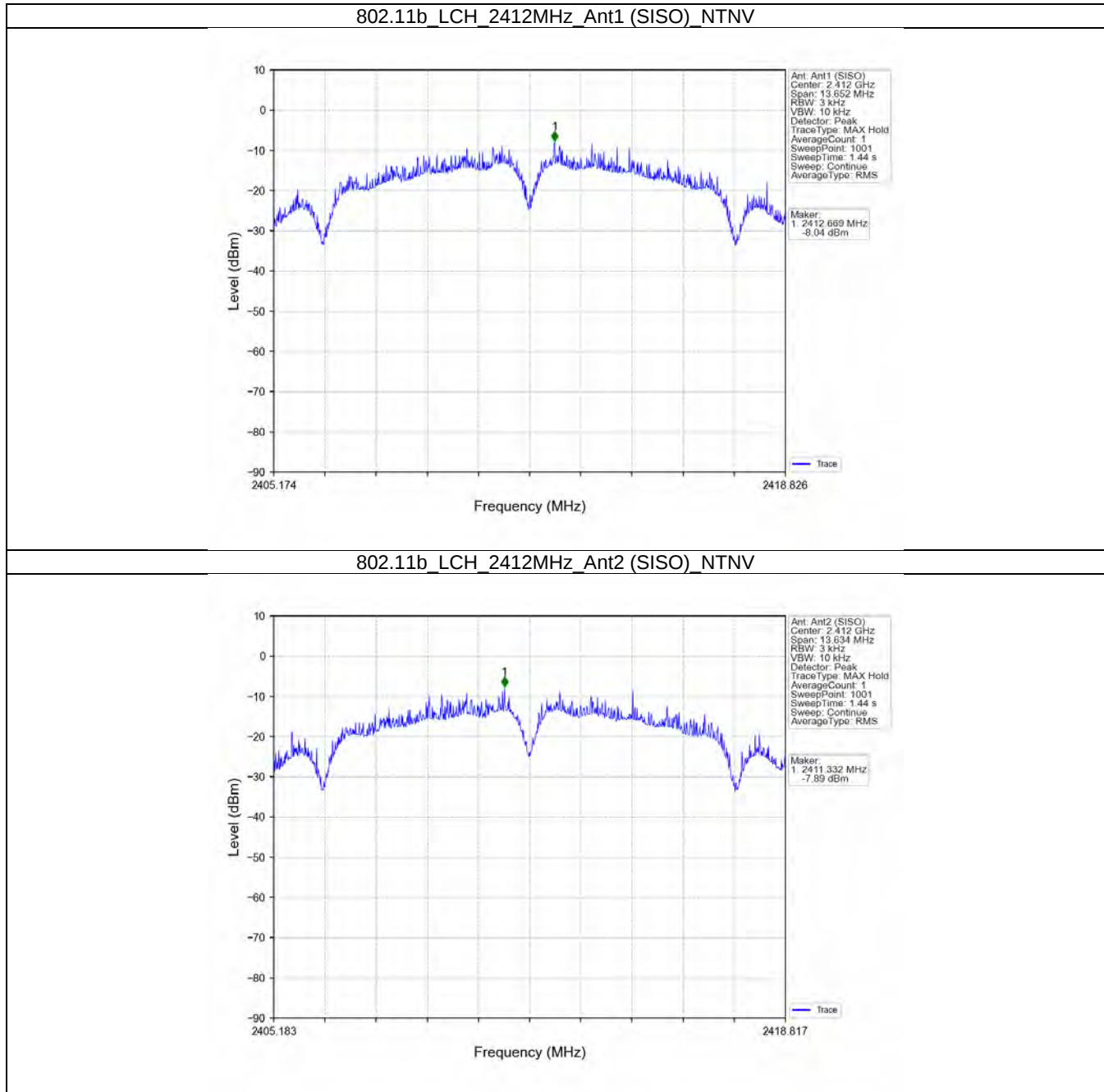
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4.1.2 Test Graph



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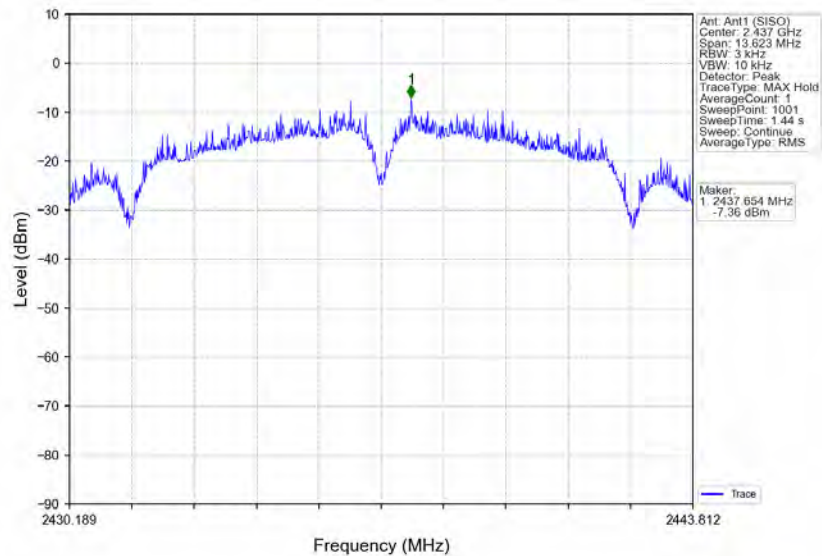
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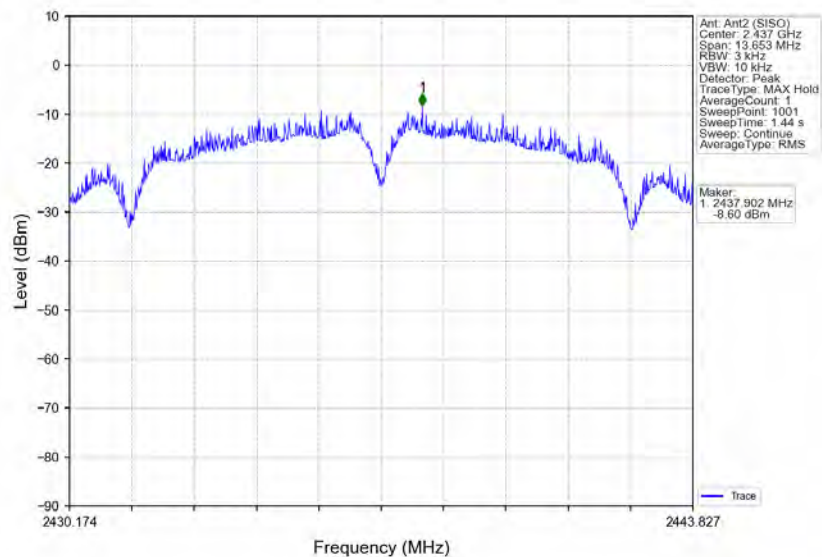
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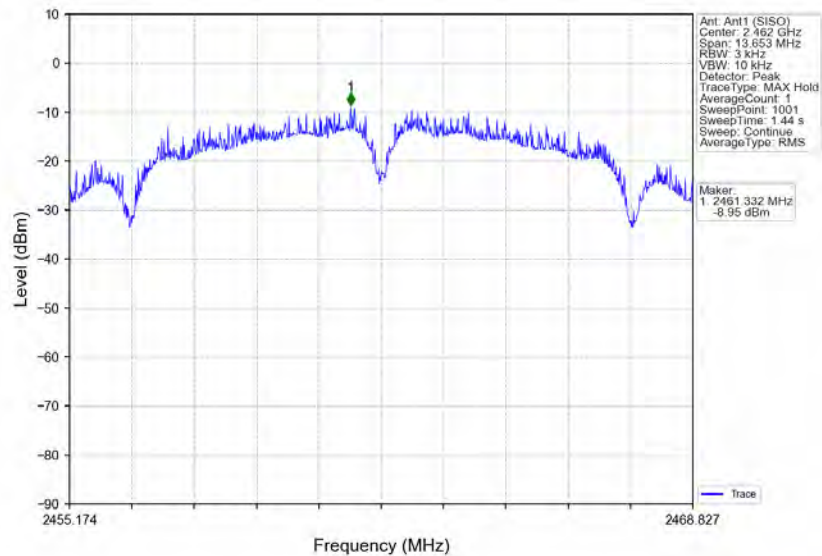
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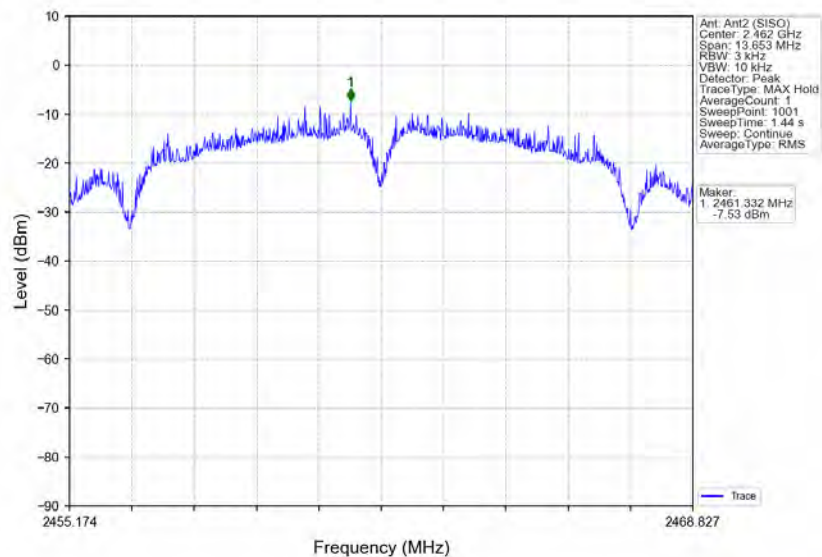
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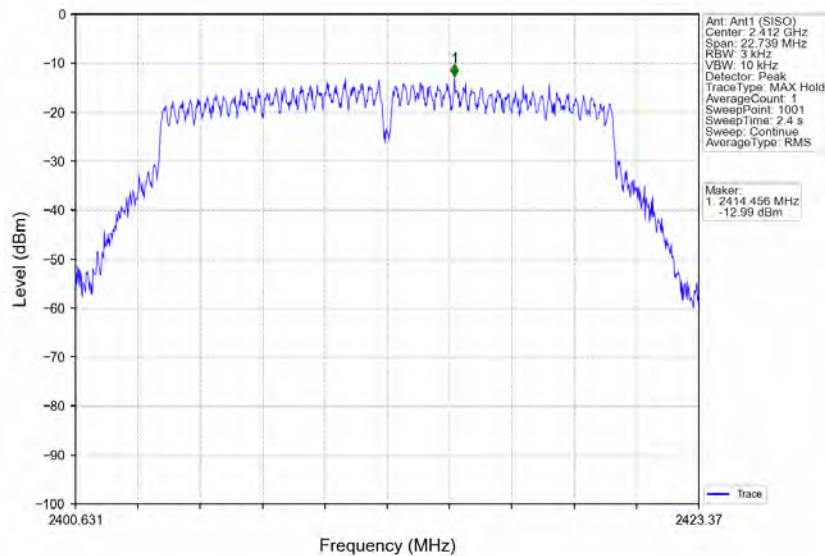
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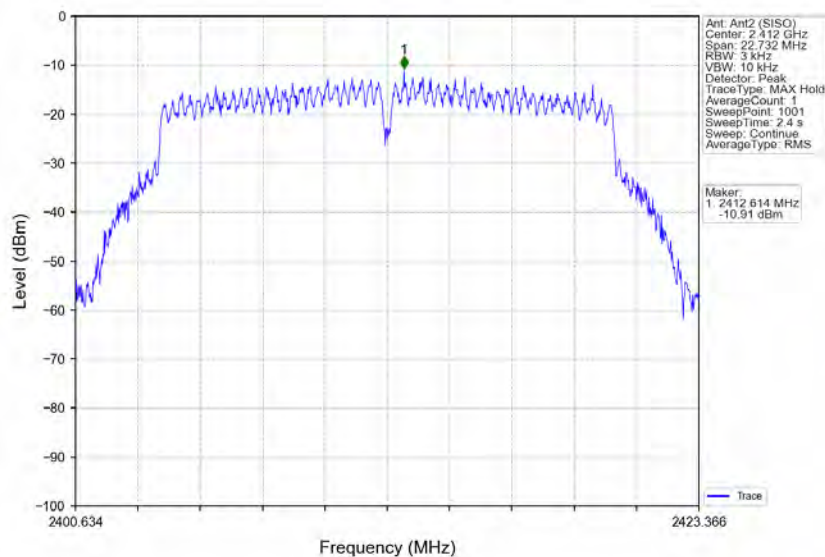
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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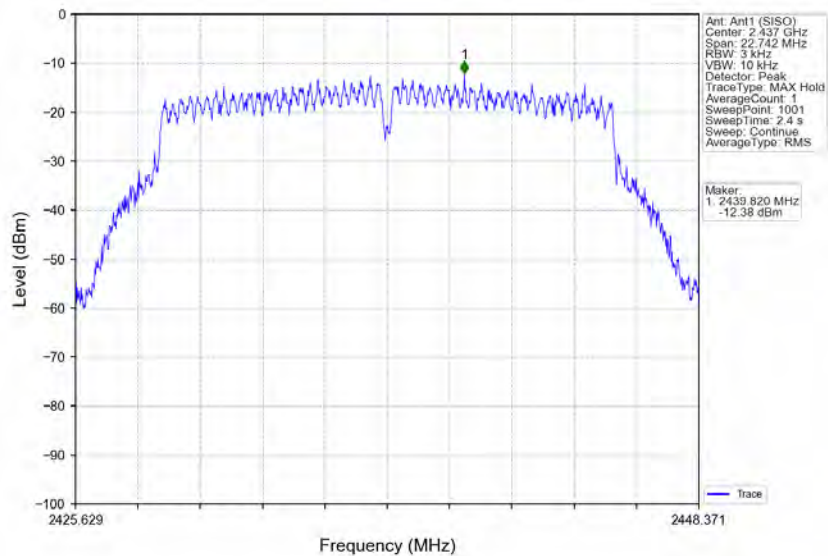
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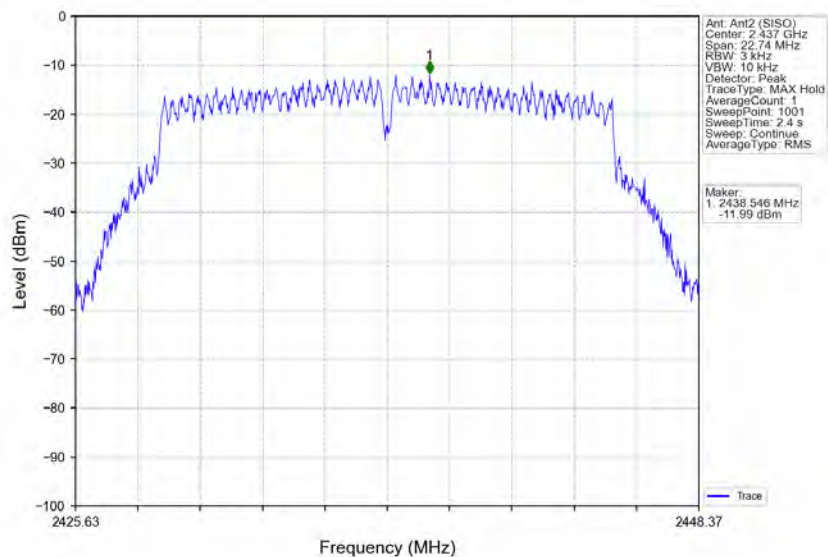
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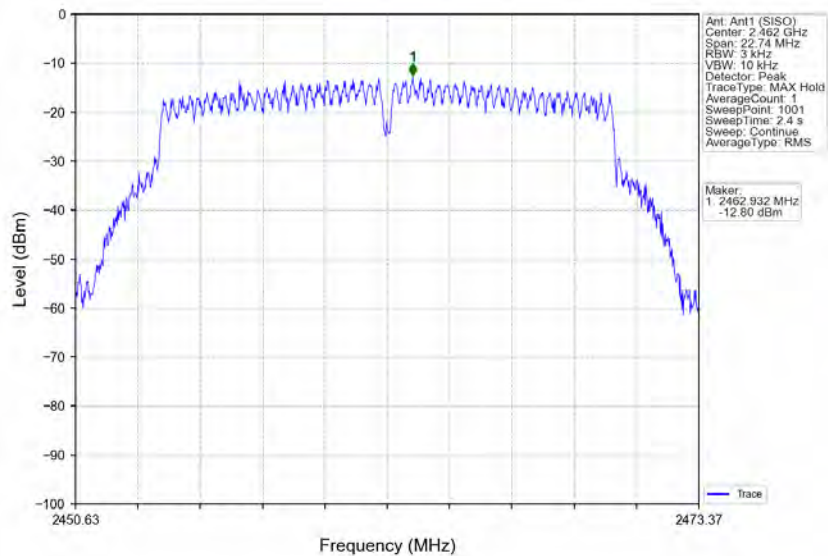
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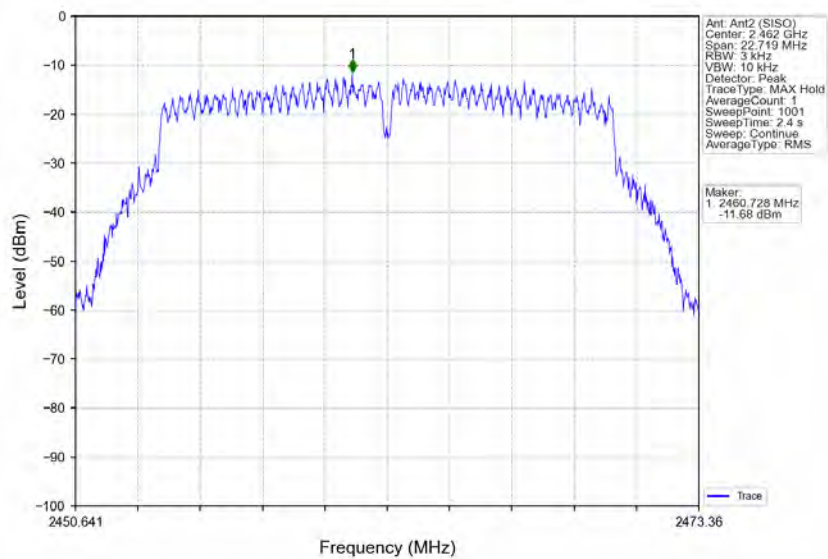
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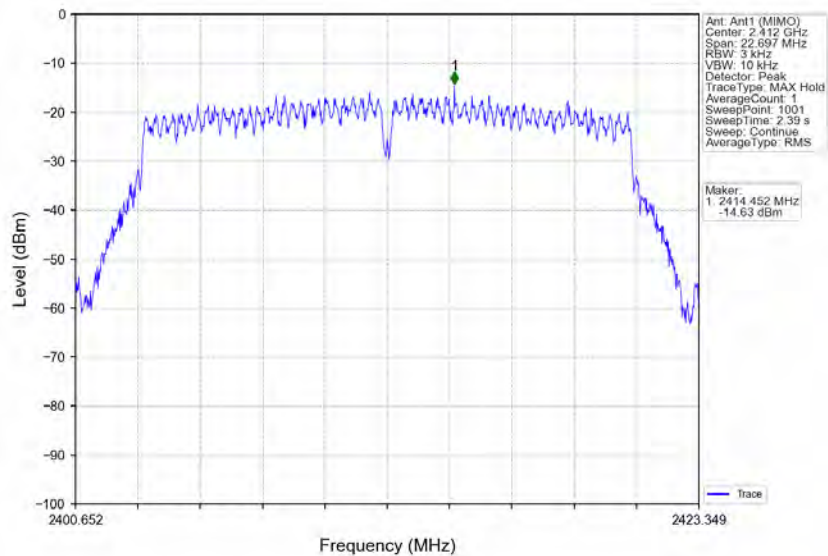
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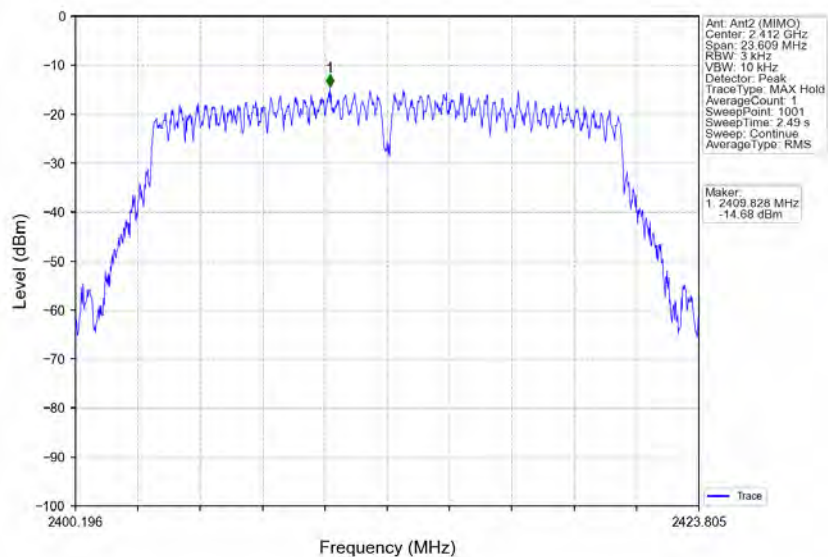
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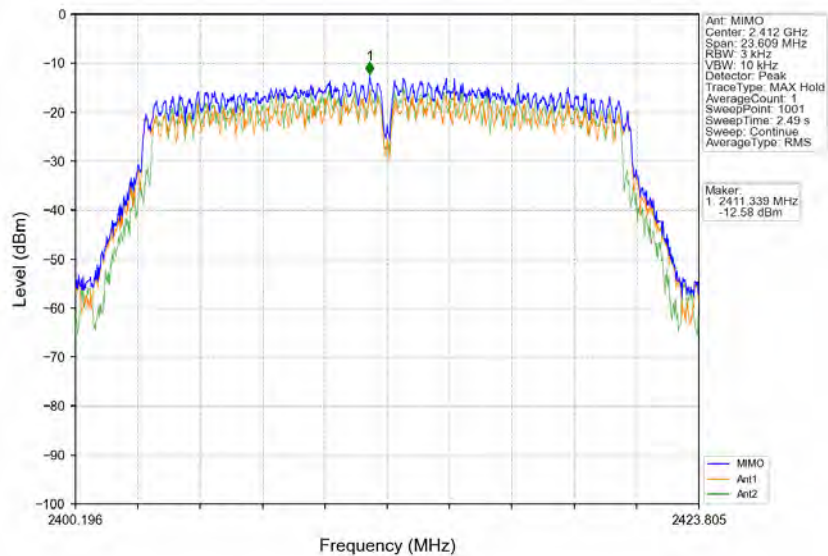
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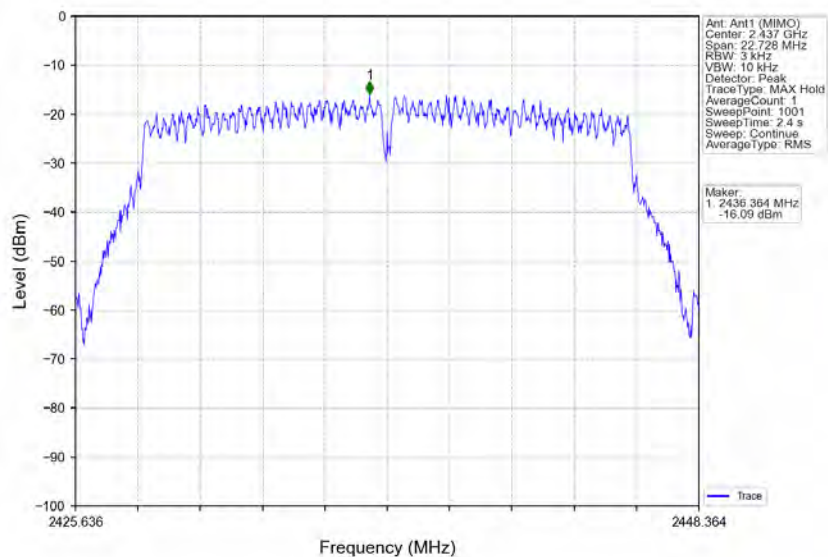
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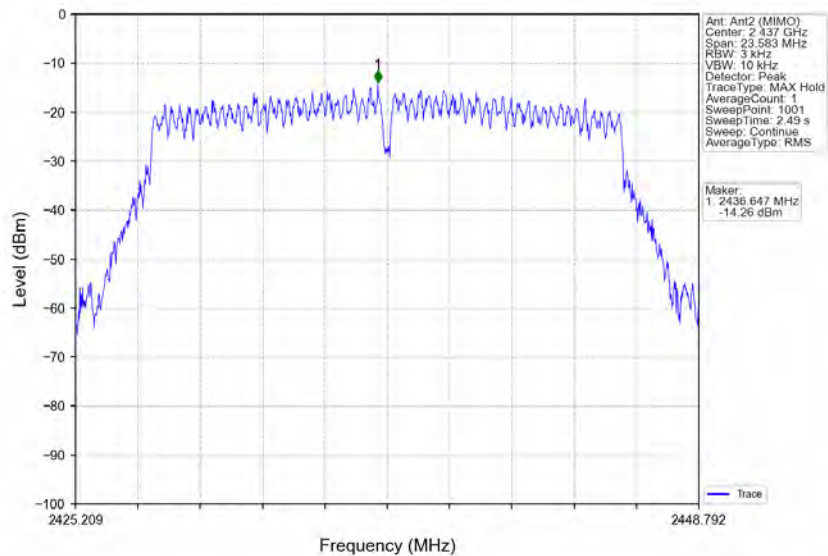
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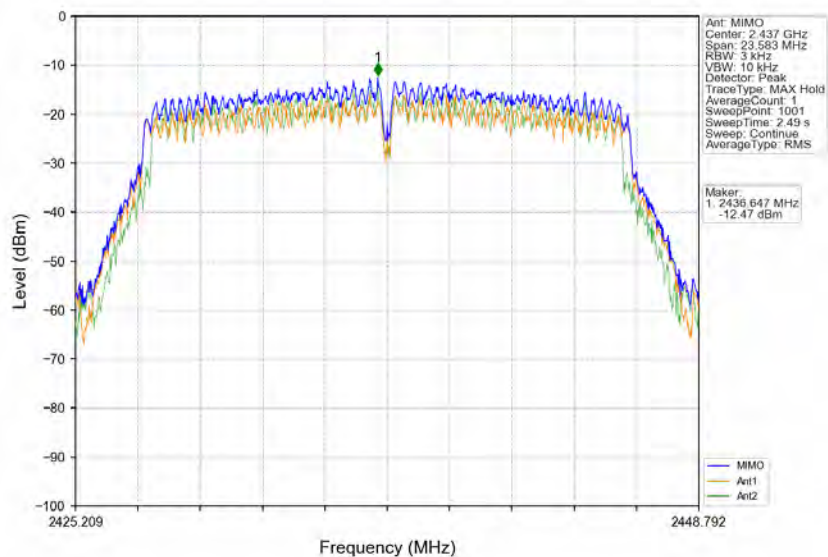
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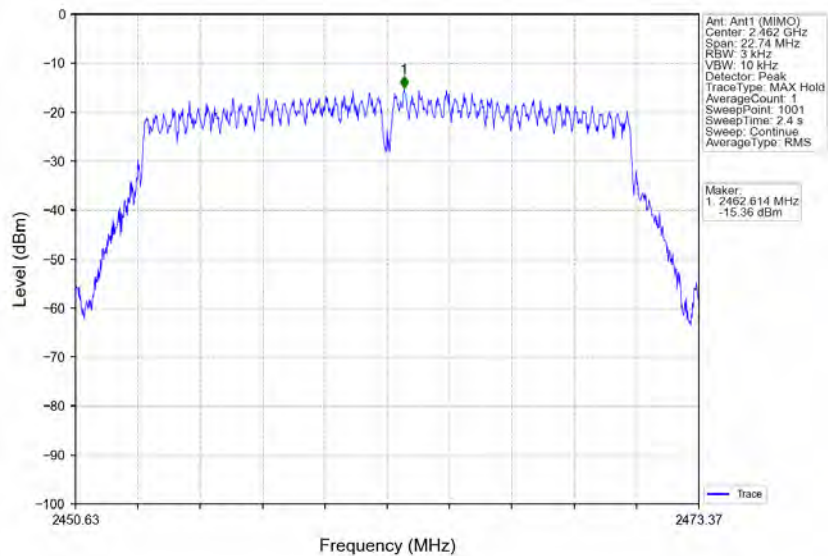
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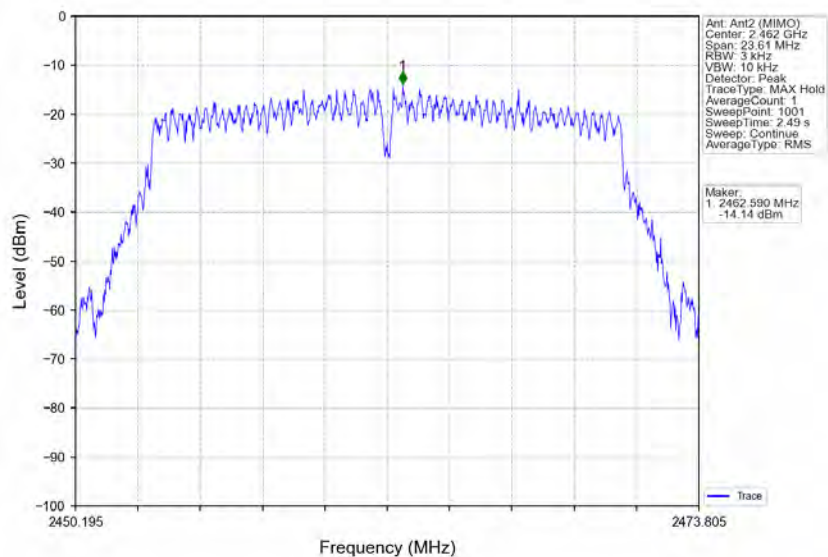
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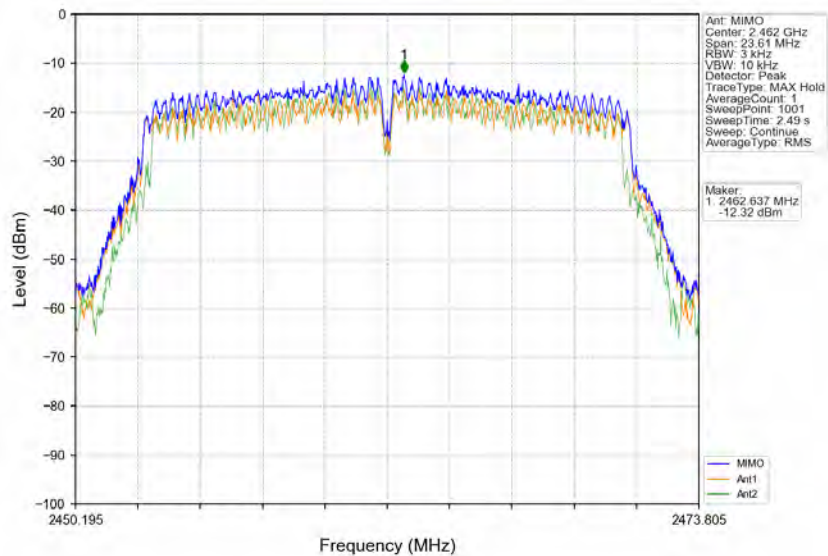
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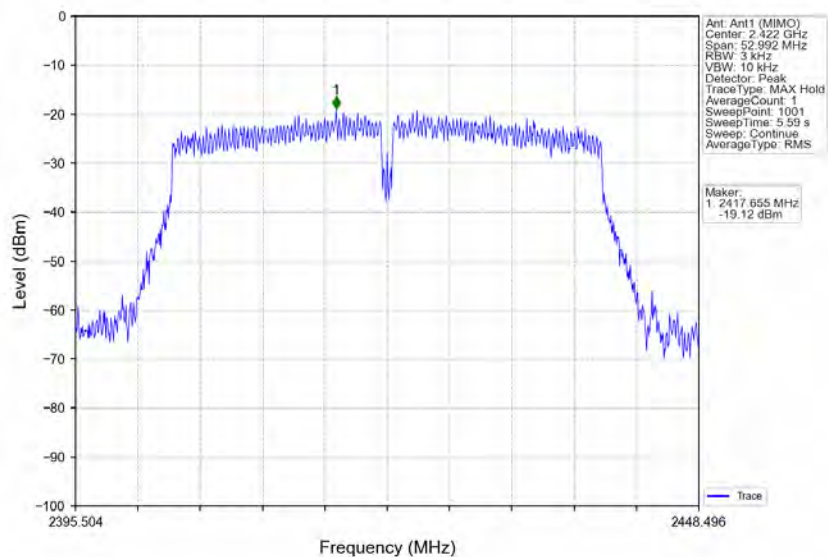
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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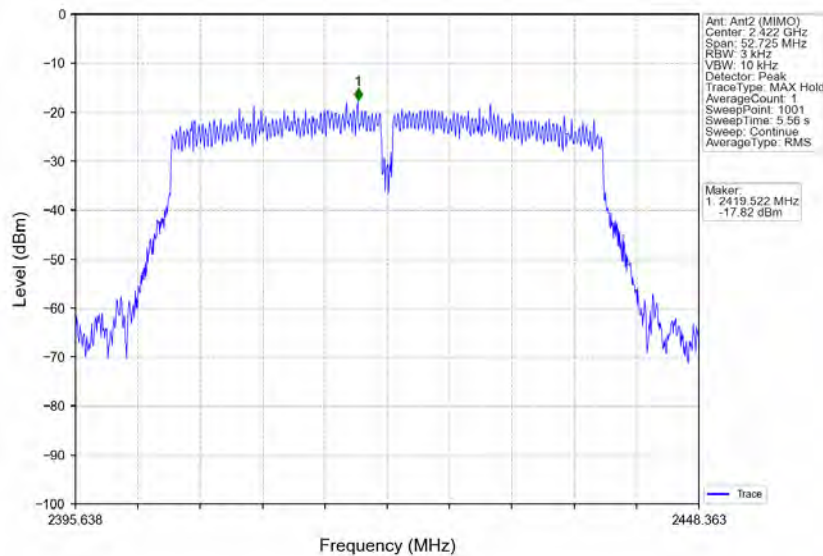
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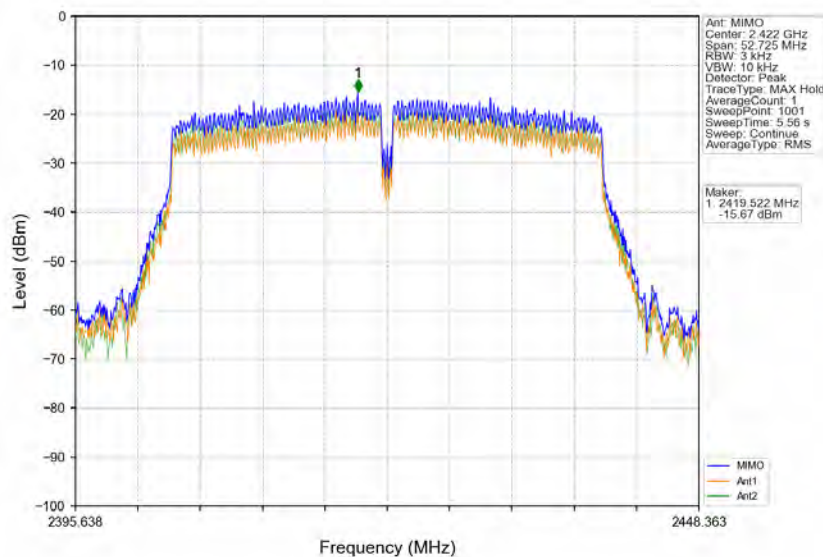
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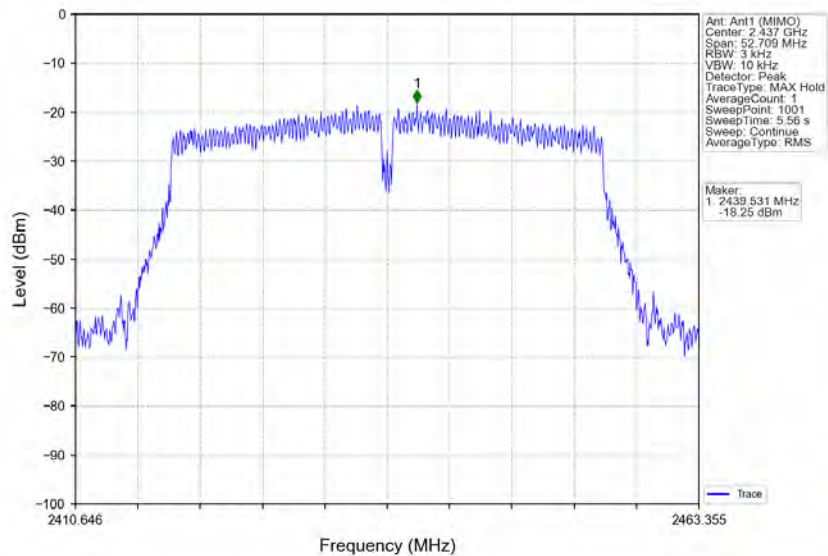
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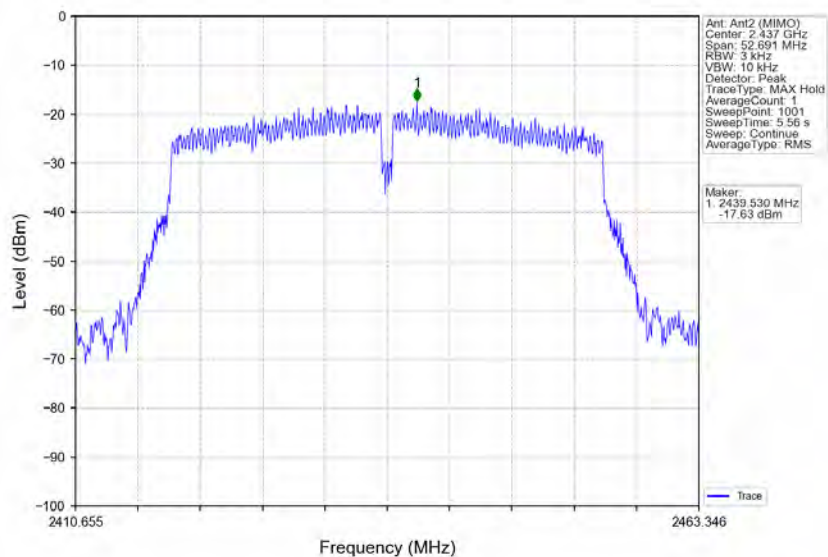
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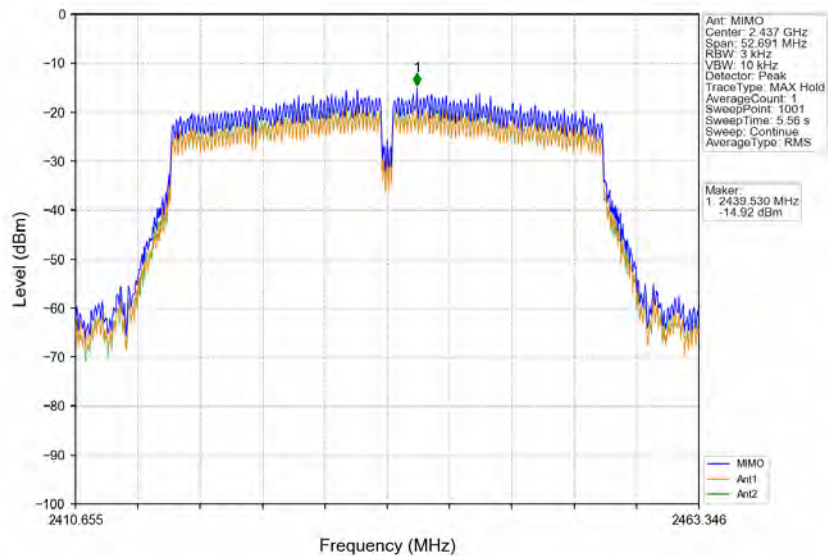
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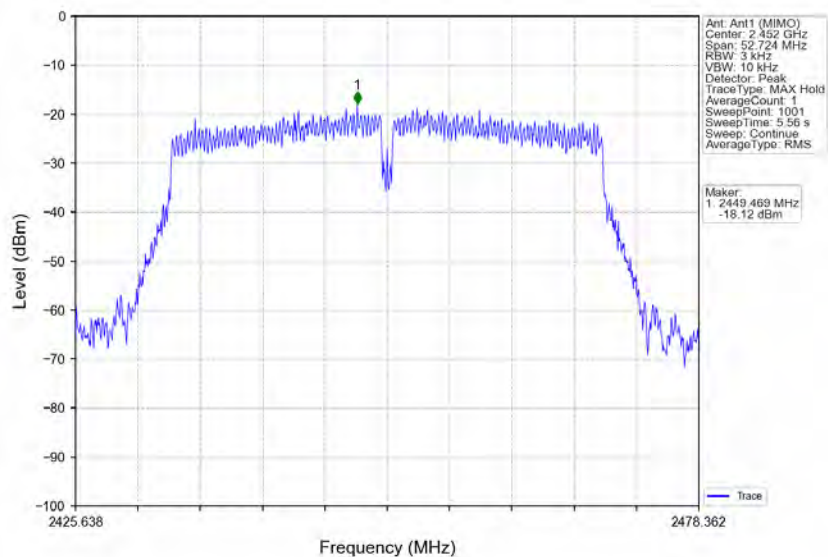
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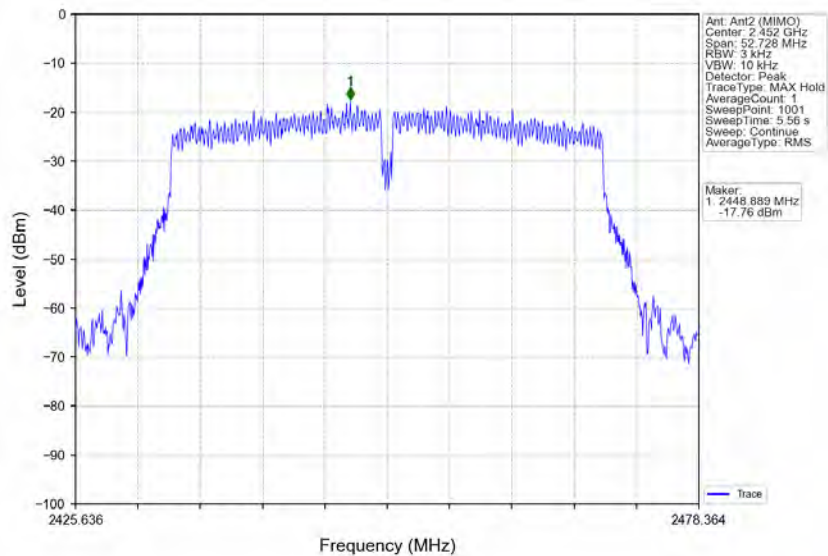
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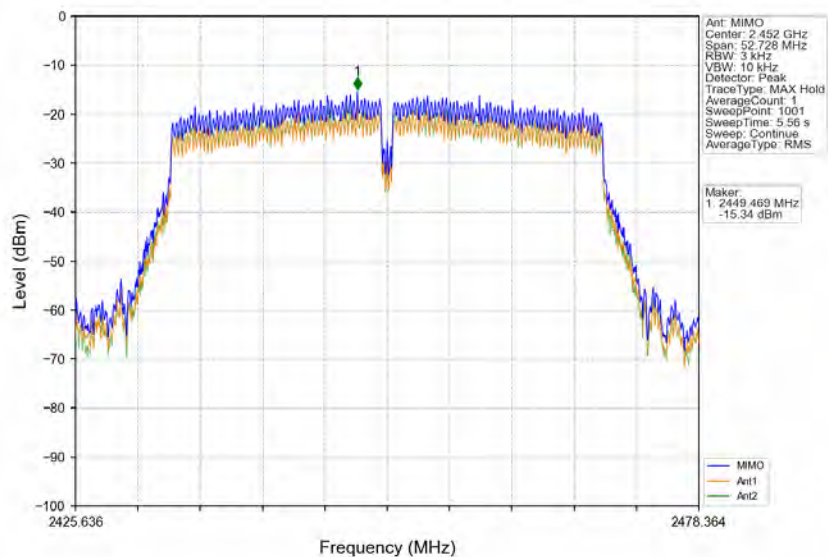
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	6.86
			2	6.82
		2437	1	6.50
			2	6.78
		2462	1	6.71
			2	6.69
802.11g	SISO	2412	1	3.83
			2	4.63
		2437	1	3.75
			2	4.63
		2462	1	4.43
			2	4.53
802.11n (HT20)	MIMO	2412	1	0.93
			2	1.65
		2437	1	1.37
			2	1.62
		2462	1	1.78
			2	1.13
802.11n (HT40)	MIMO	2422	1	-3.21
			2	-2.17
		2437	1	-2.58
			2	-1.98
		2452	1	-2.36
			2	-2.28

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.



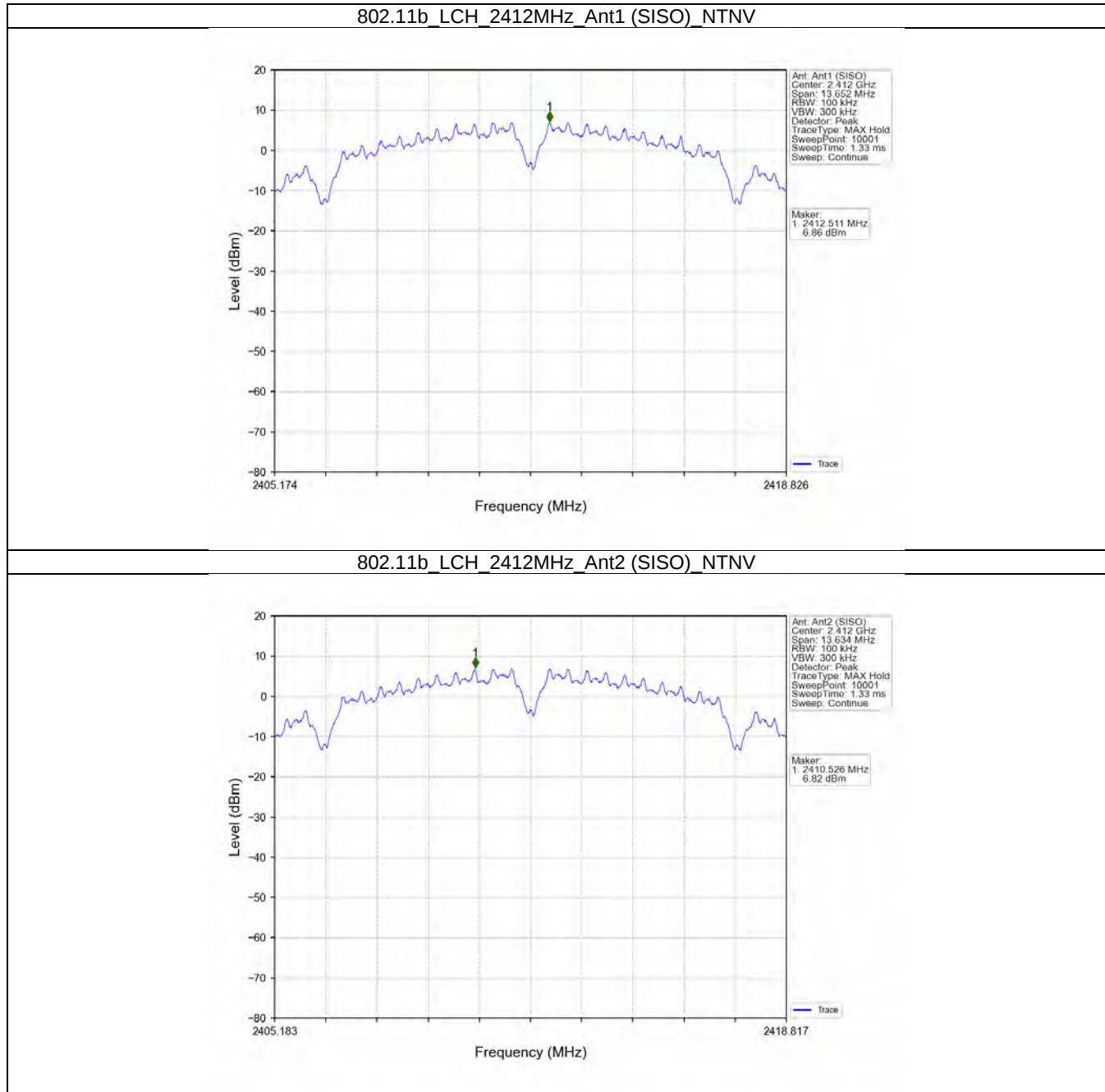
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5.1.2 Test Graph



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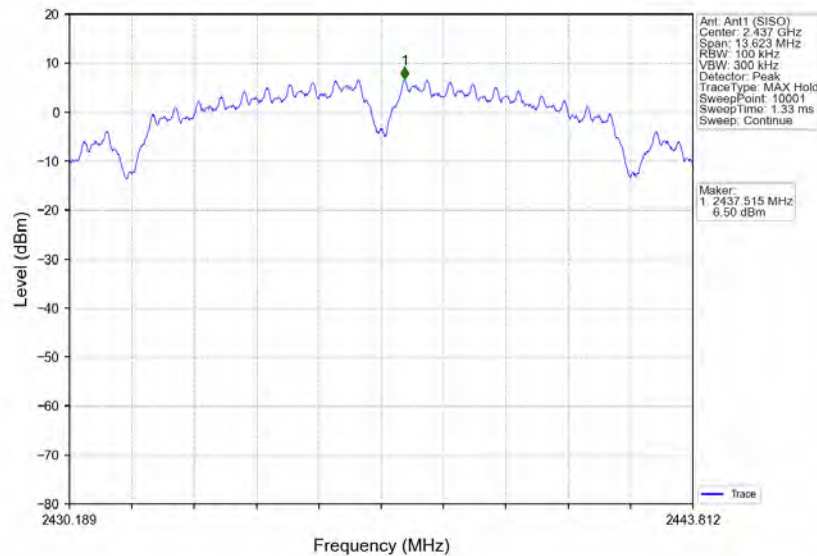
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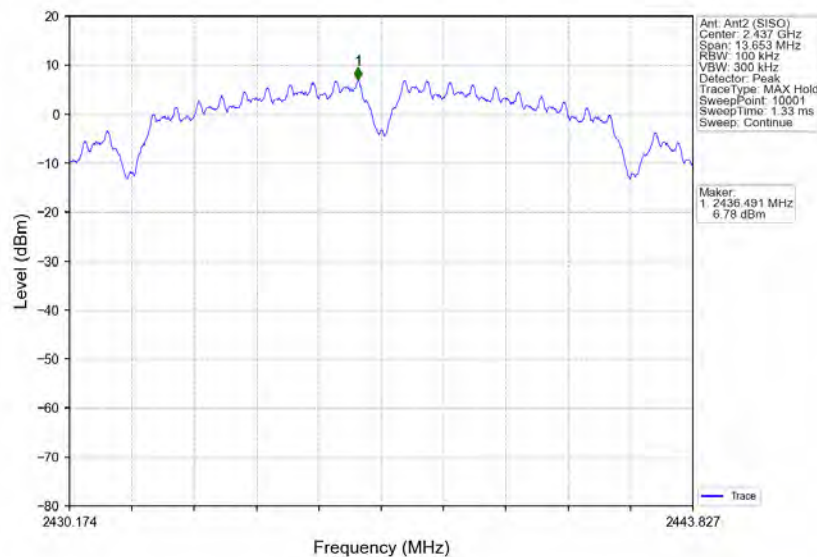
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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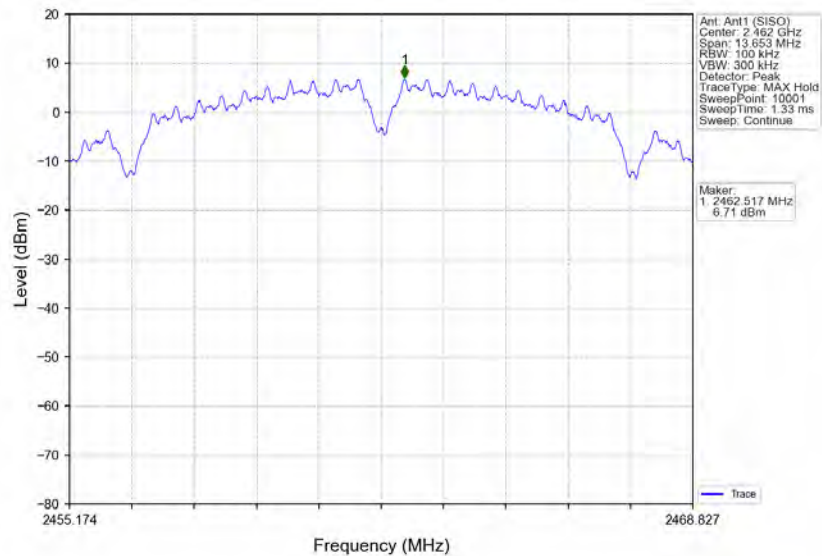
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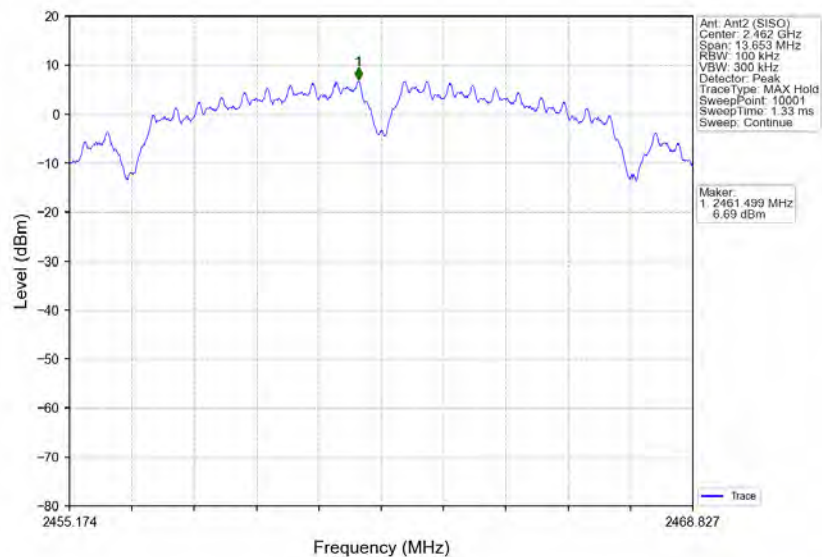
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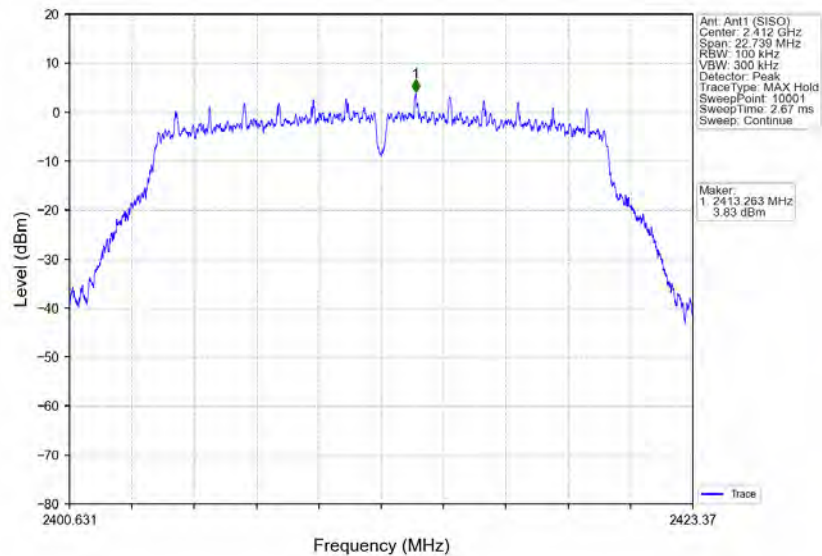
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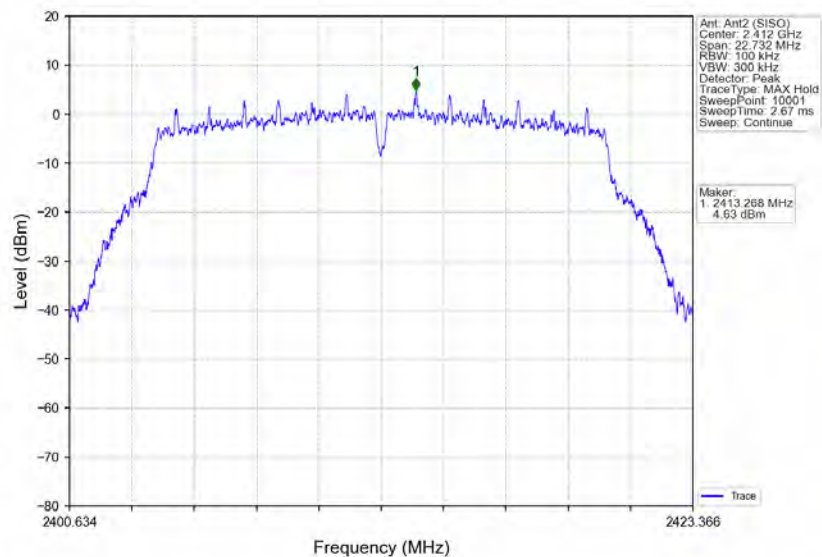
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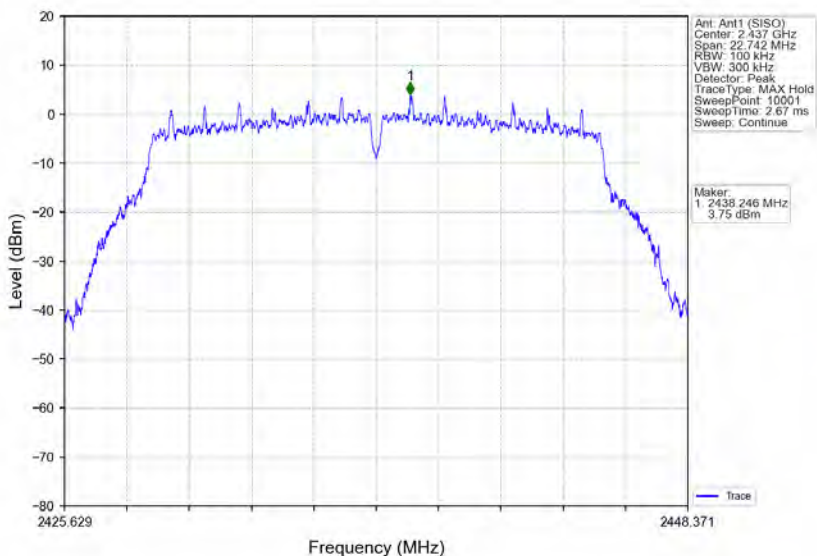
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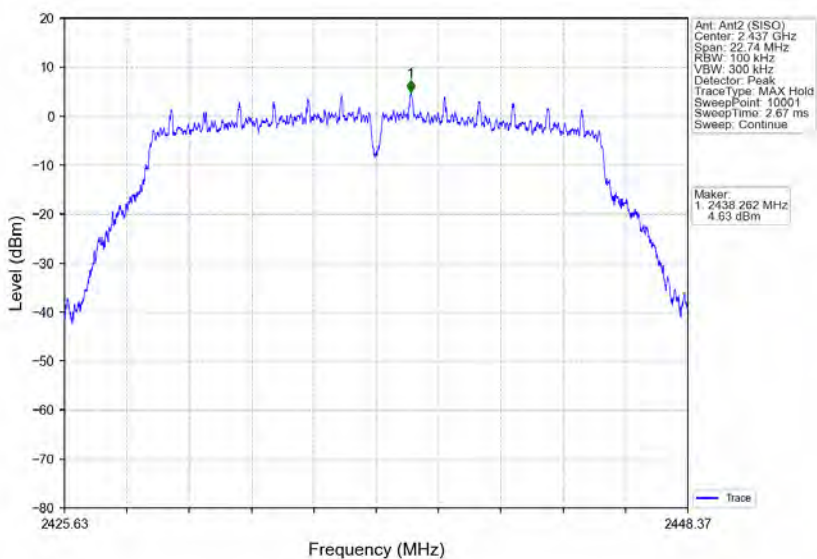
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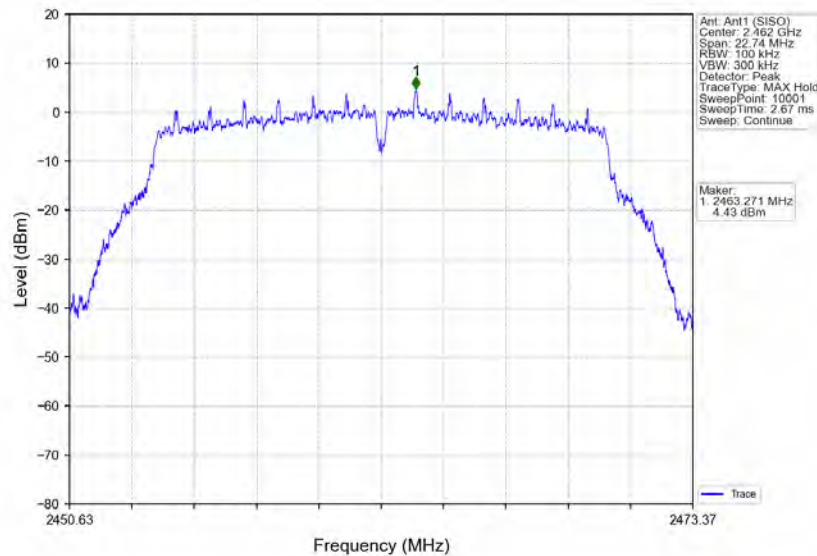
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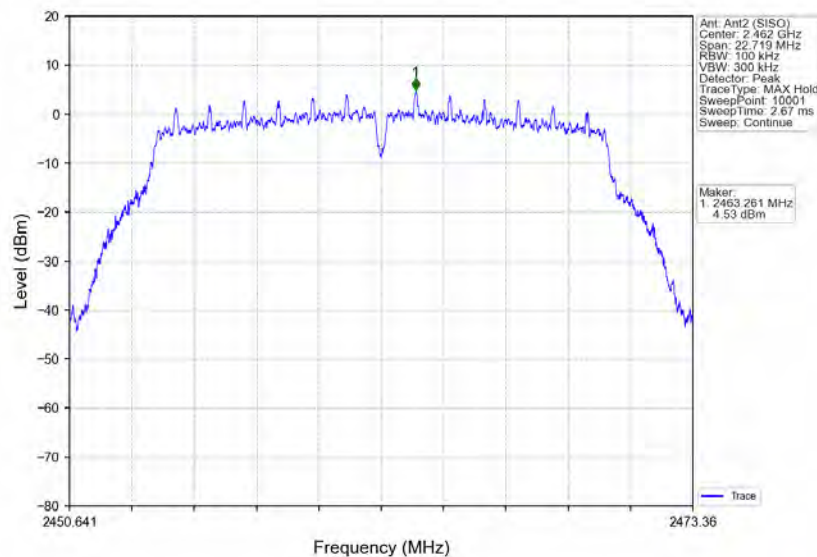
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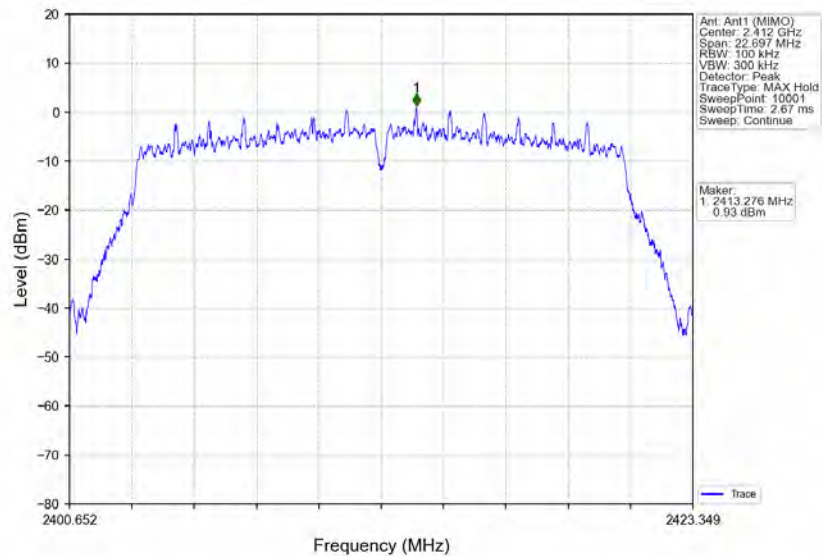
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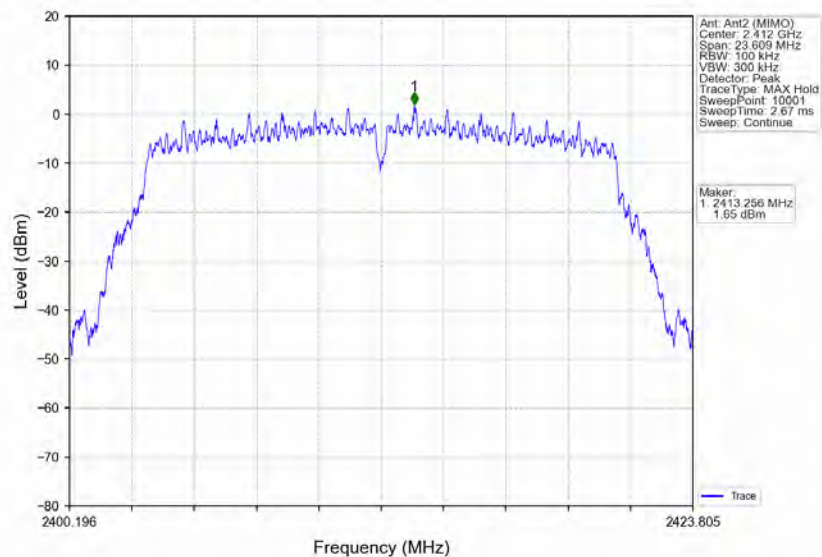
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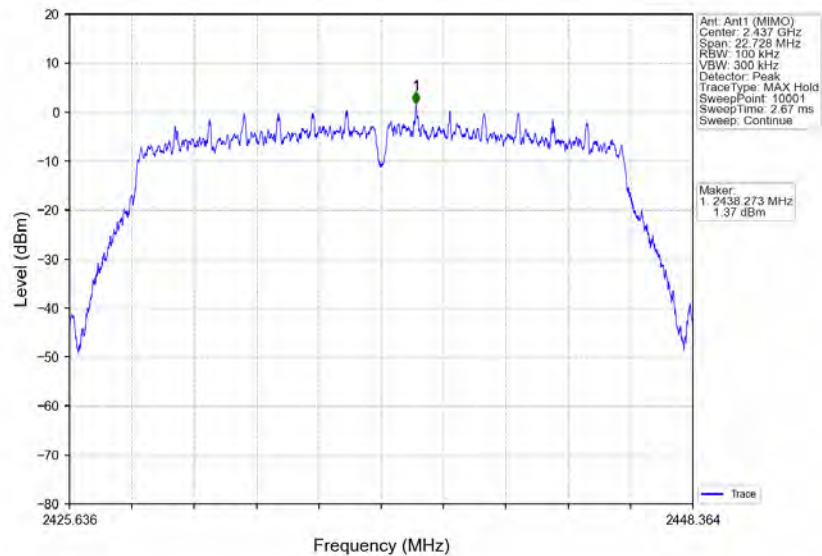
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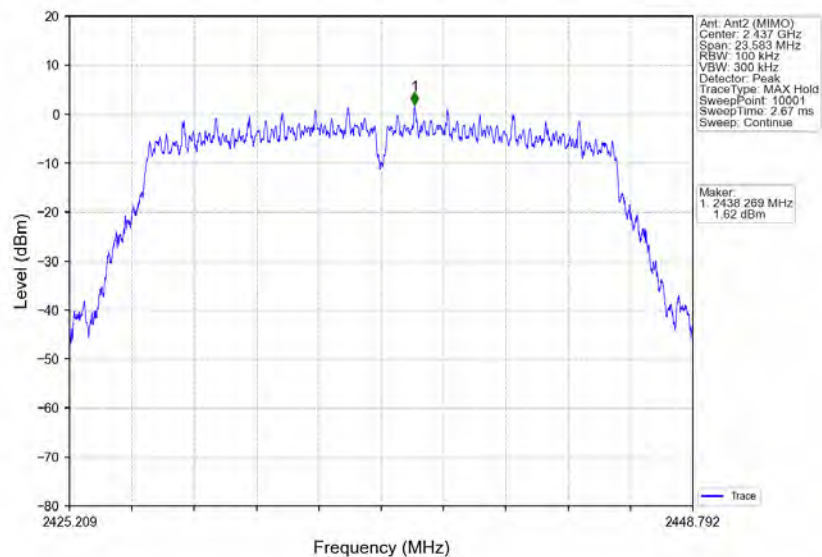
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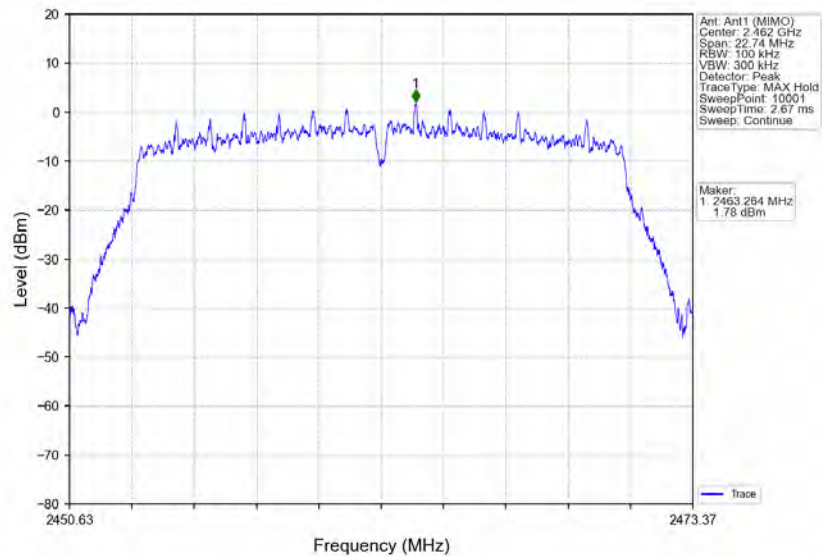
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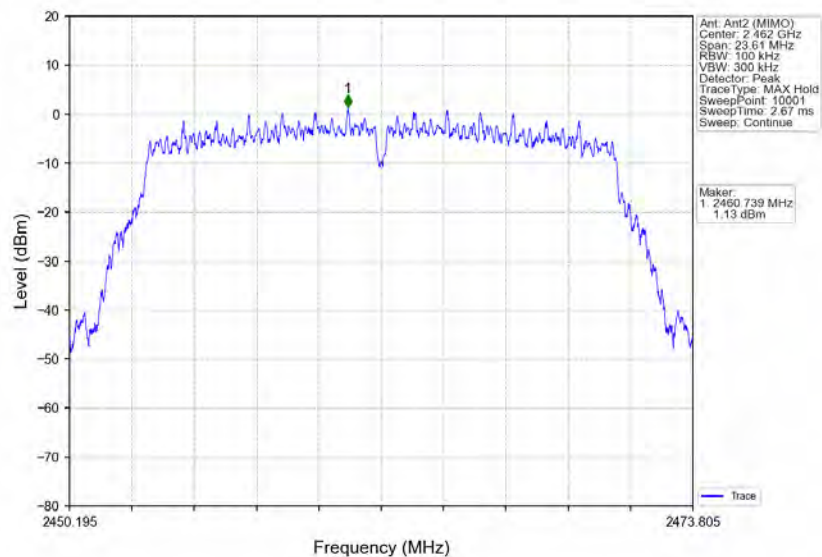
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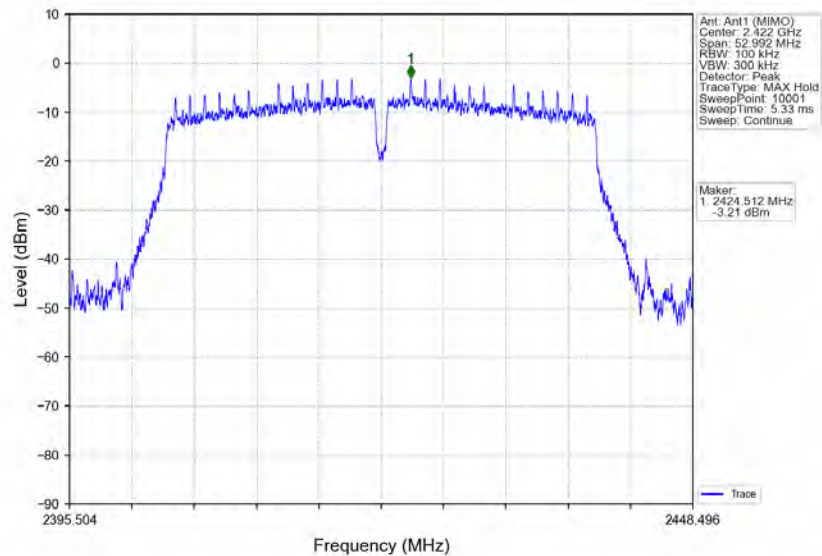
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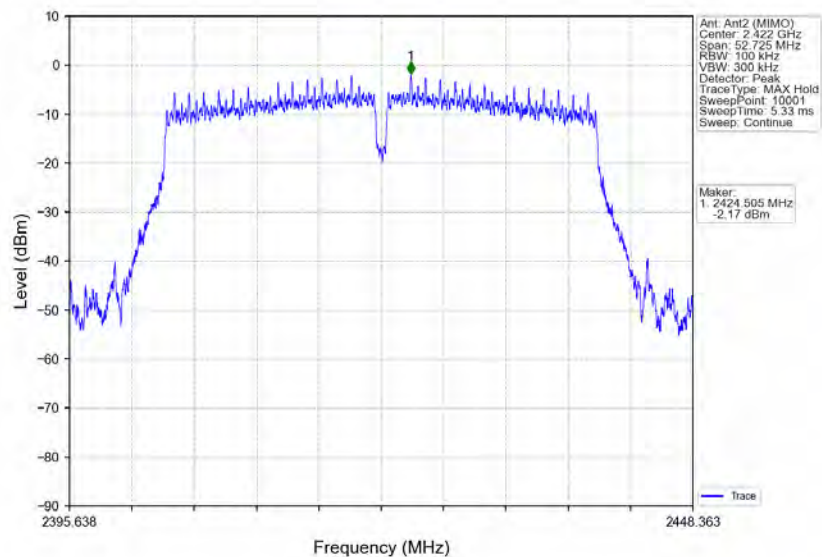
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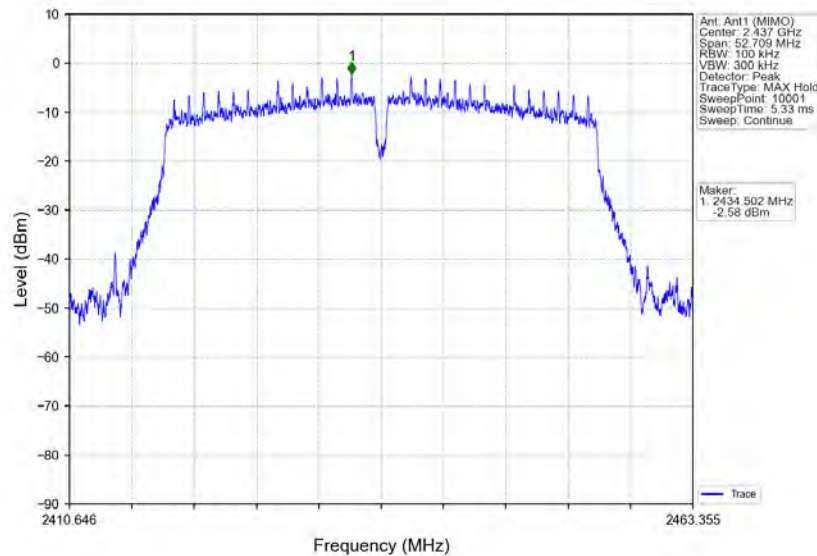
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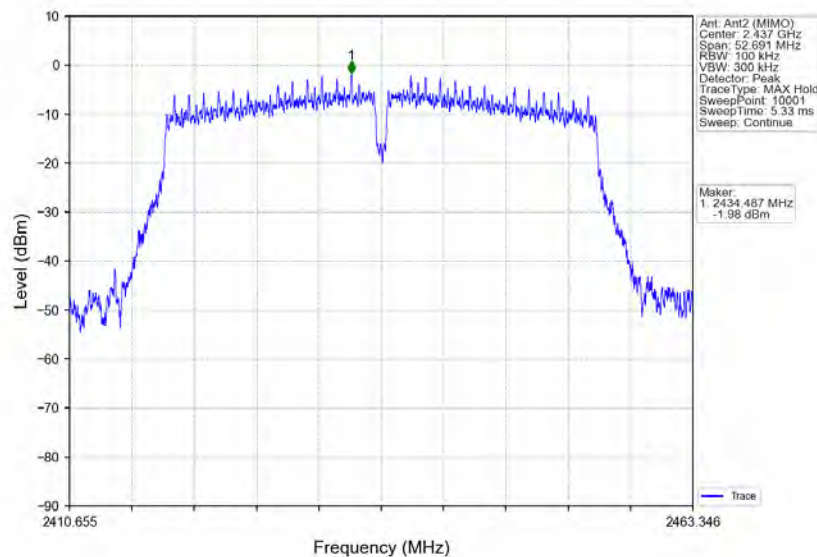
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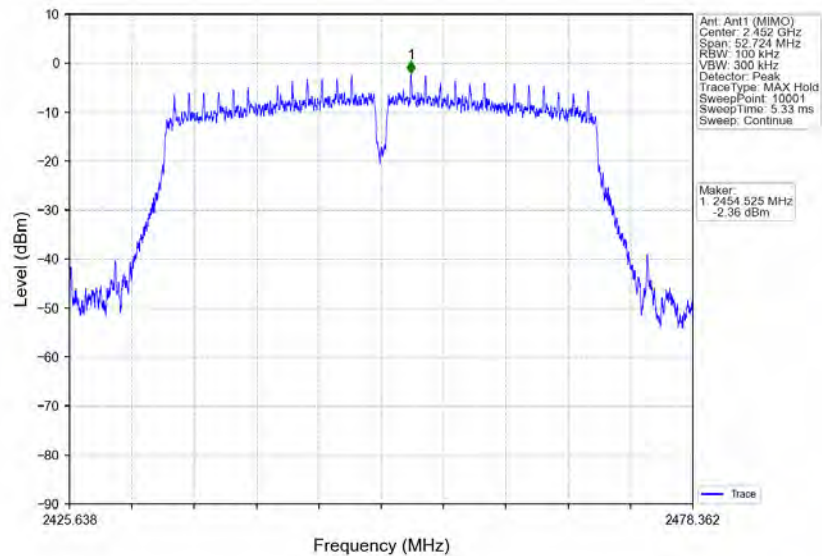
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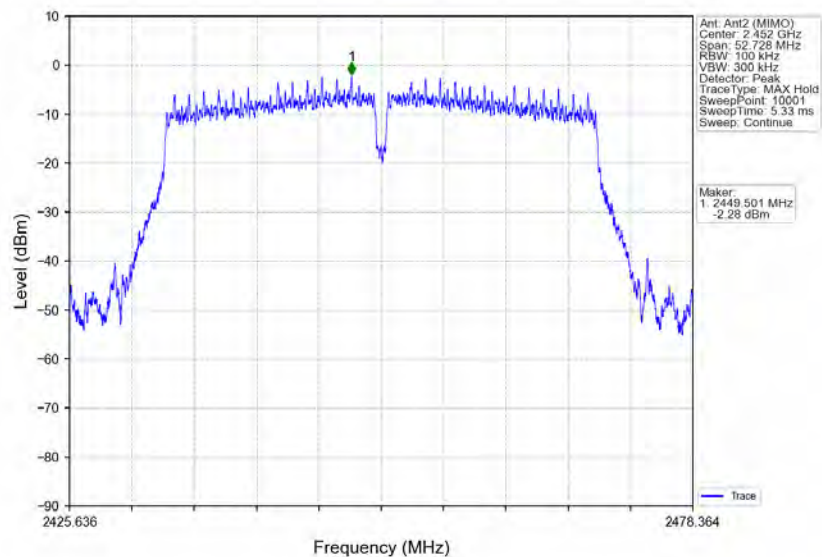
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.86	-23.14	Pass
			2	6.82	-23.18	Pass
		2437	1	6.86	-23.14	Pass
			2	6.82	-23.18	Pass
		2462	1	6.86	-23.14	Pass
			2	6.82	-23.18	Pass
802.11g	SISO	2412	1	4.43	-25.57	Pass
			2	4.63	-25.37	Pass
		2437	1	4.43	-25.57	Pass
			2	4.63	-25.37	Pass
		2462	1	4.43	-25.57	Pass
			2	4.63	-25.37	Pass
802.11n (HT20)	MIMO	2412	1	1.78	-28.22	Pass
			2	1.65	-28.35	Pass
		2437	1	1.78	-28.22	Pass
			2	1.65	-28.35	Pass
		2462	1	1.78	-28.22	Pass
			2	1.65	-28.35	Pass
802.11n (HT40)	MIMO	2422	1	-2.36	-32.36	Pass
			2	-1.98	-31.98	Pass
		2437	1	-2.36	-32.36	Pass
			2	-1.98	-31.98	Pass
		2452	1	-2.36	-32.36	Pass
			2	-1.98	-31.98	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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



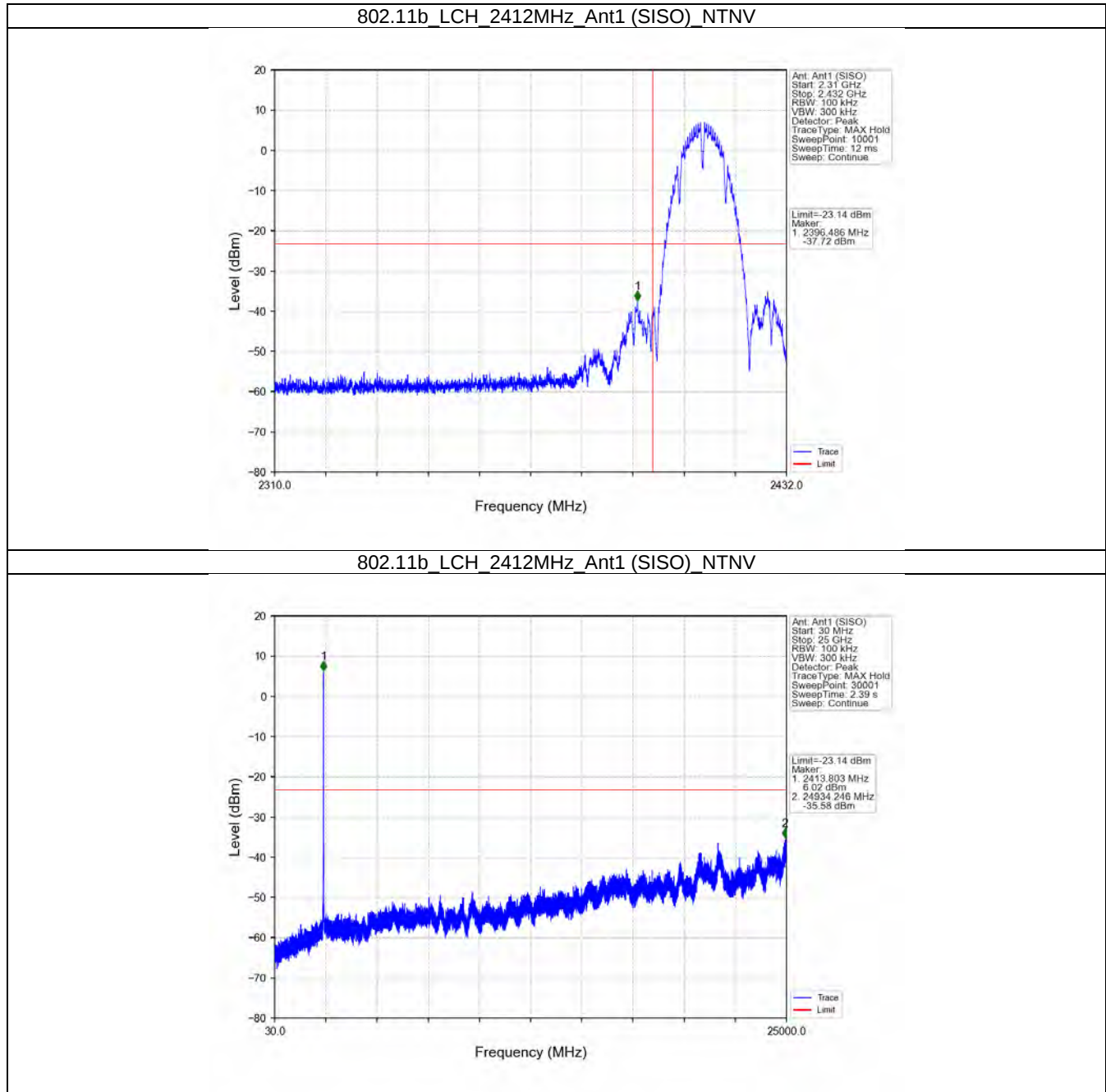
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5.2.2 Test Graph



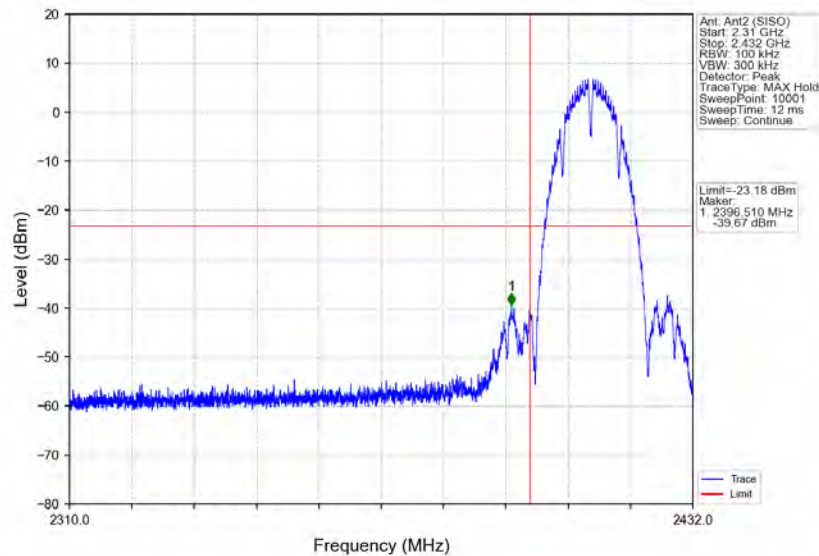
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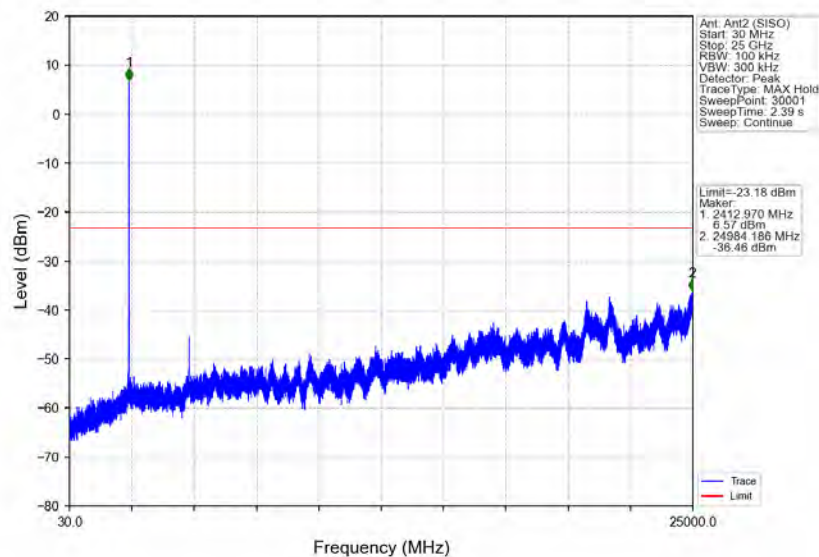
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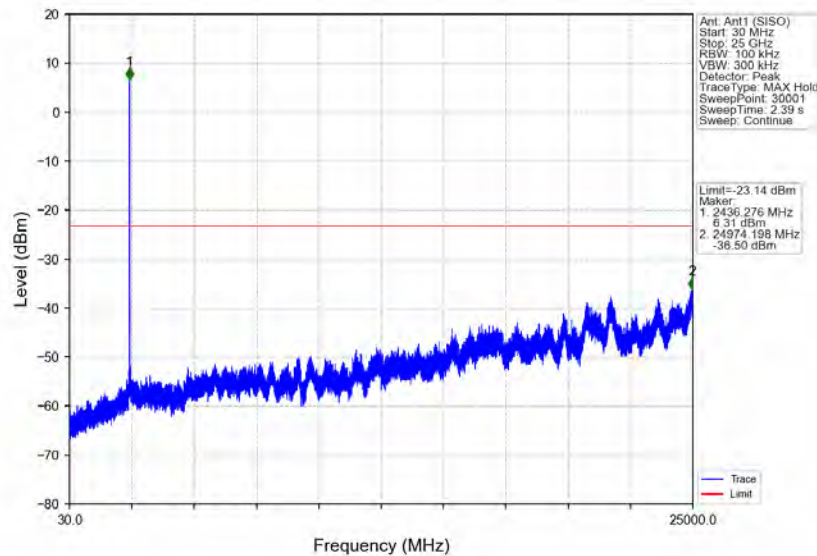
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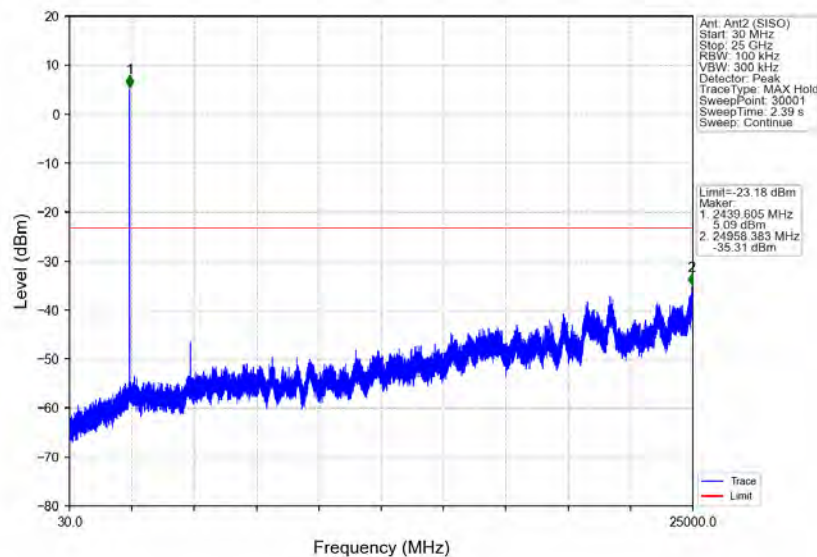
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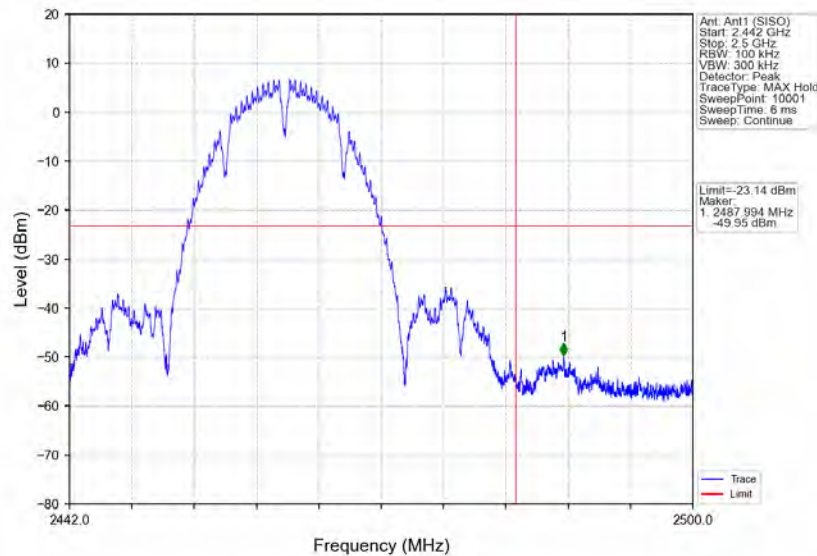
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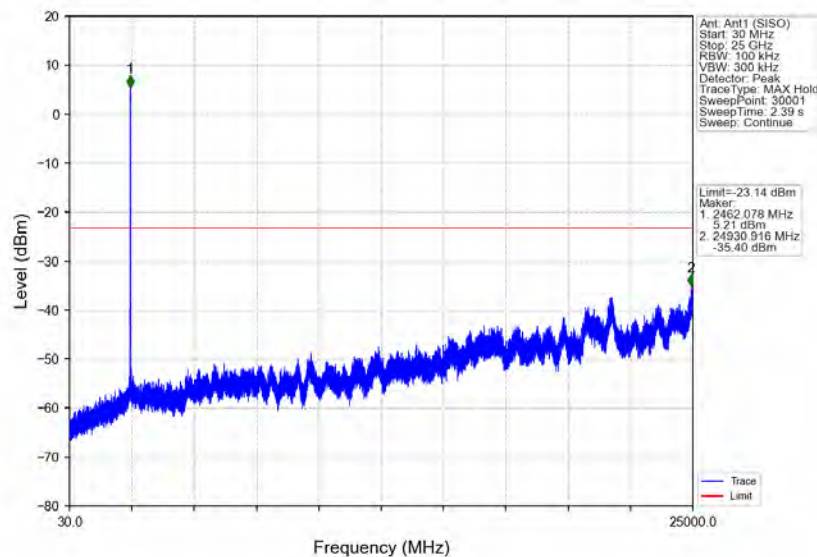
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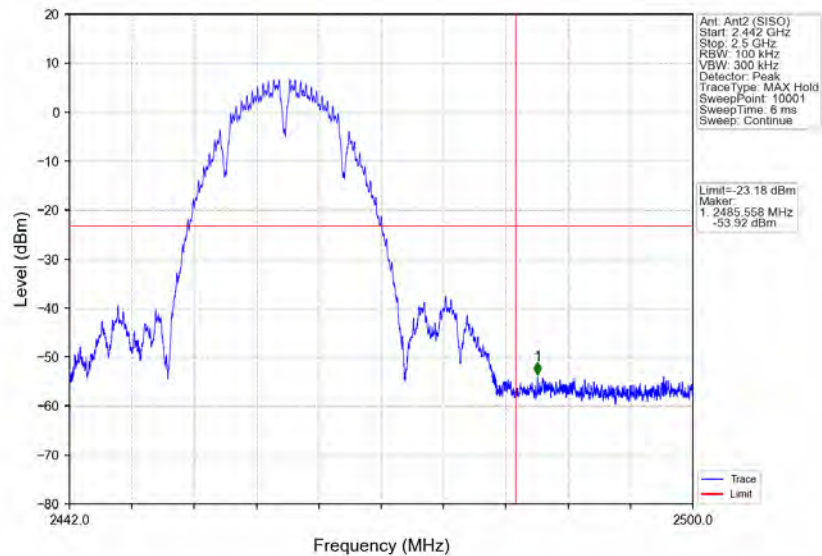
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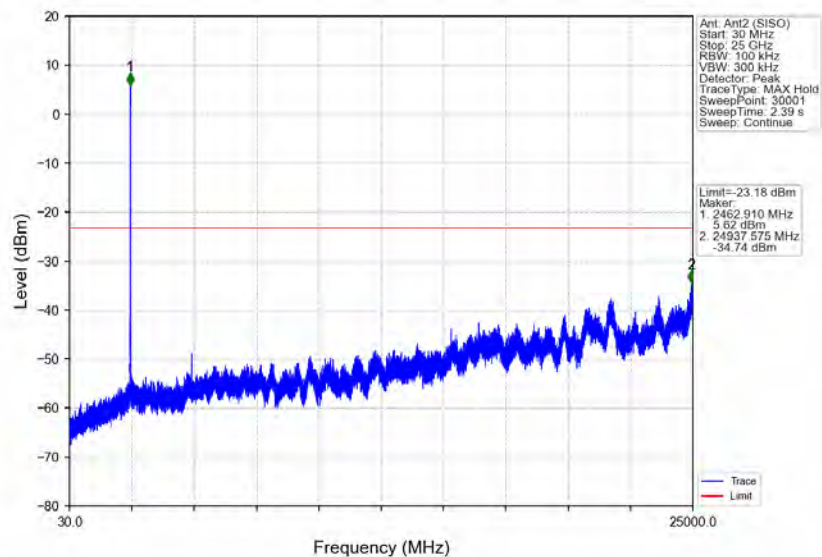
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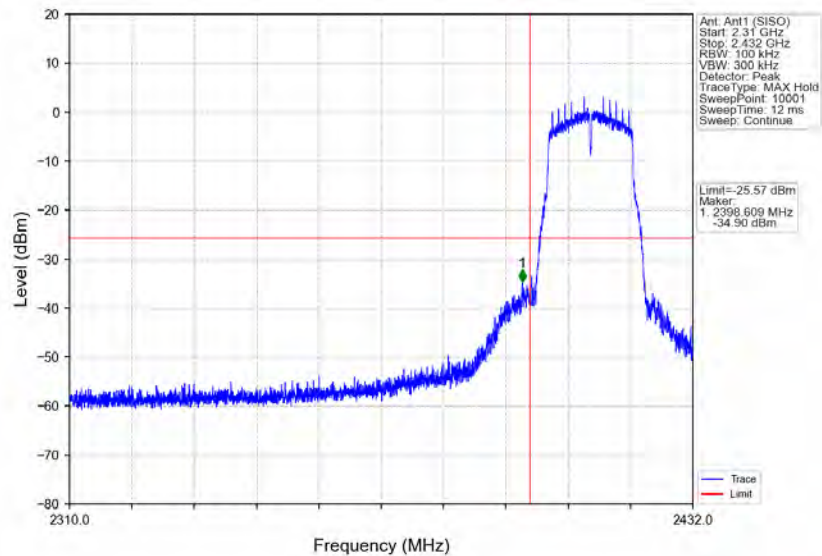
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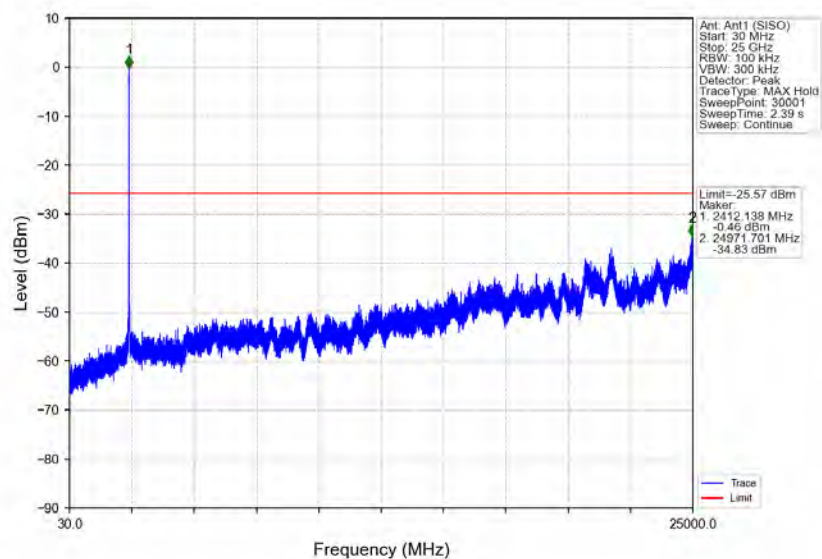
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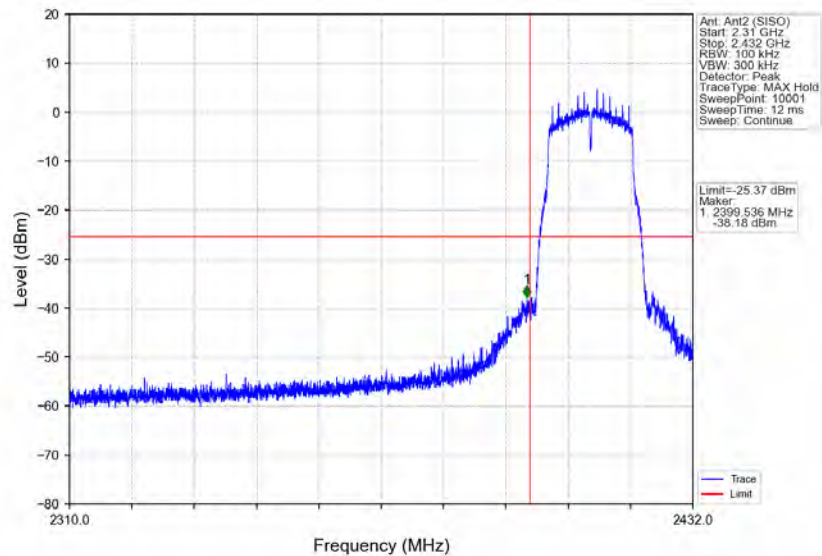
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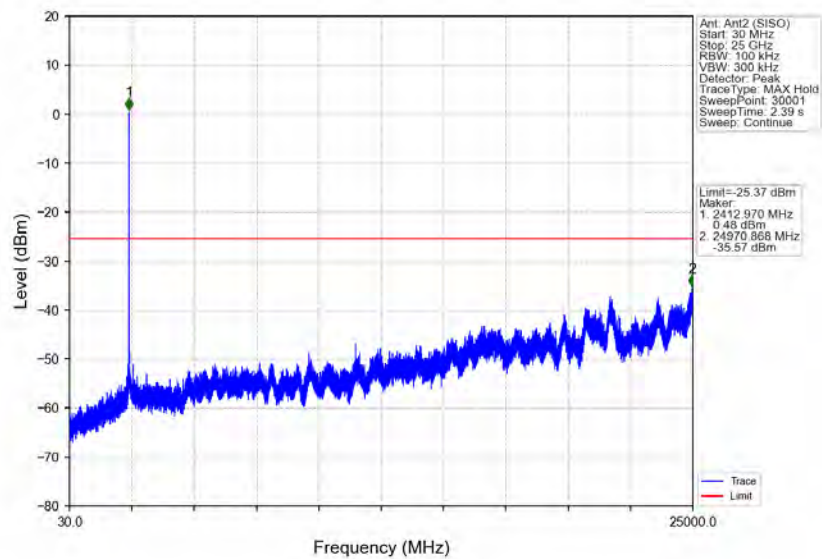
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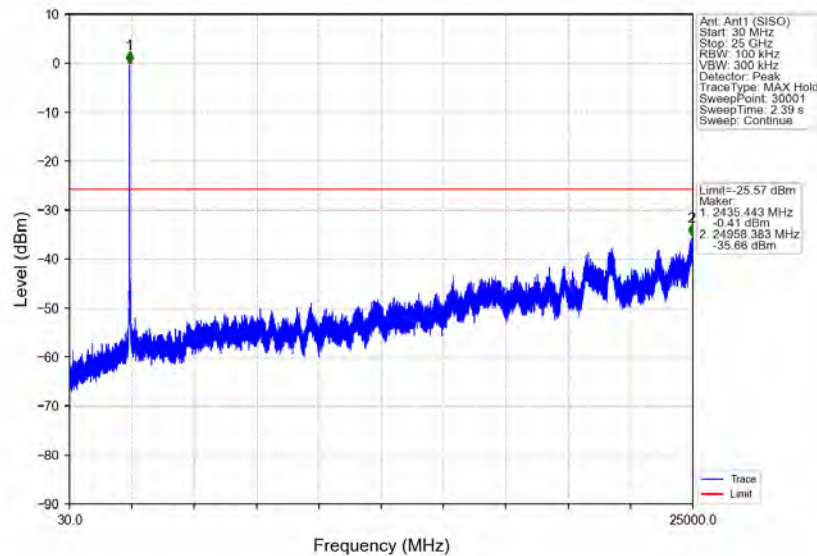
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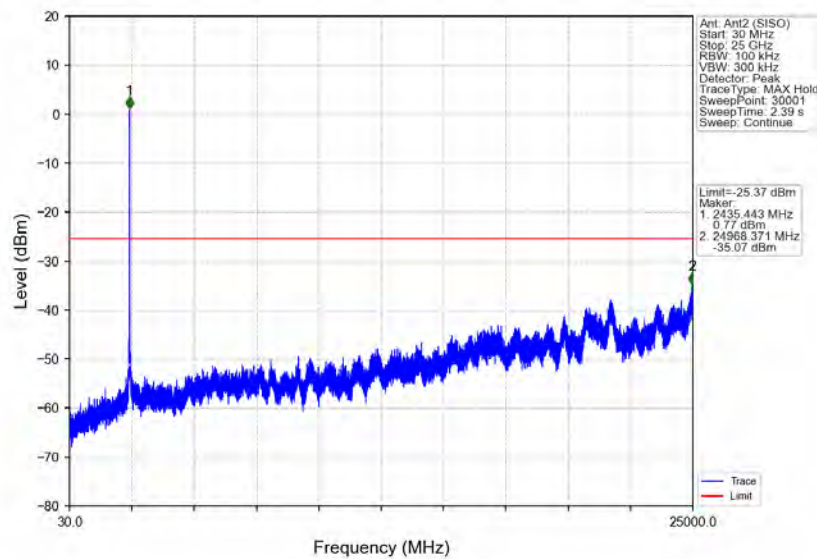
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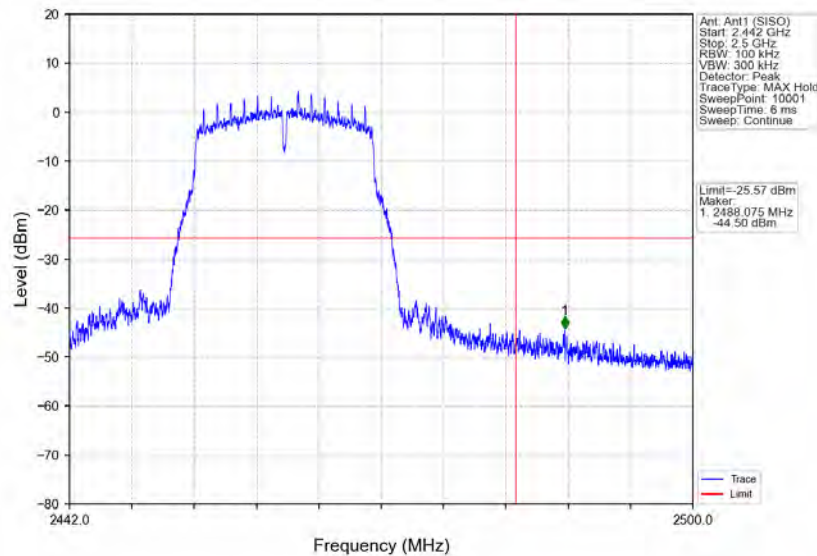
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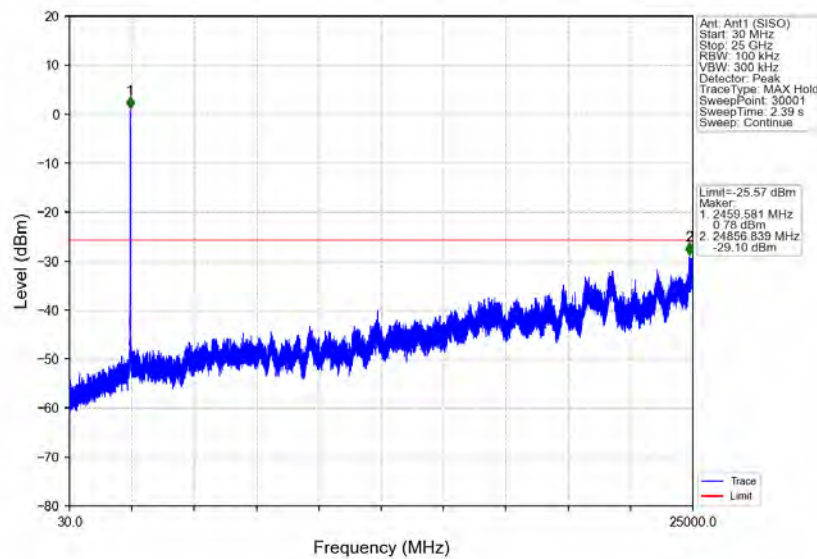
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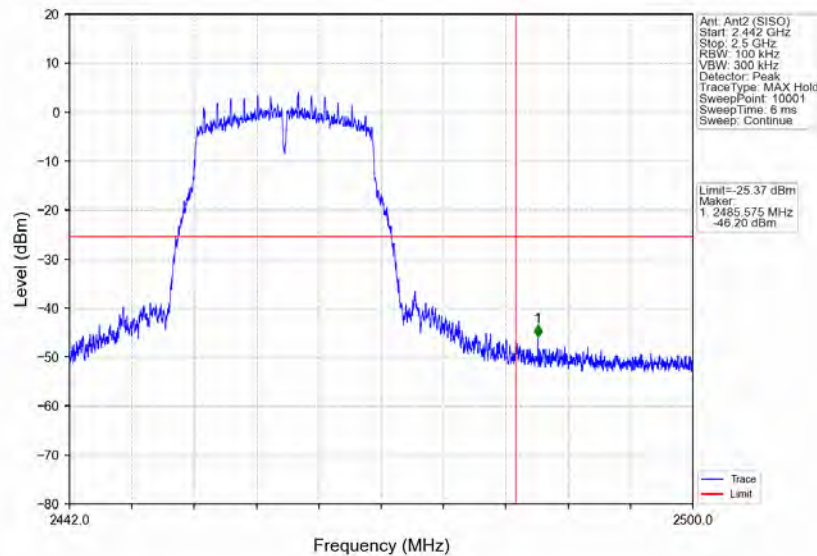
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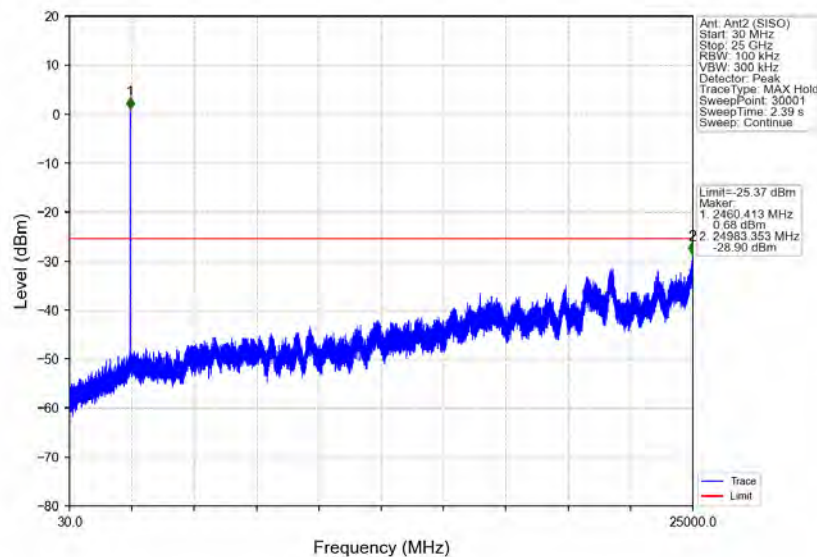
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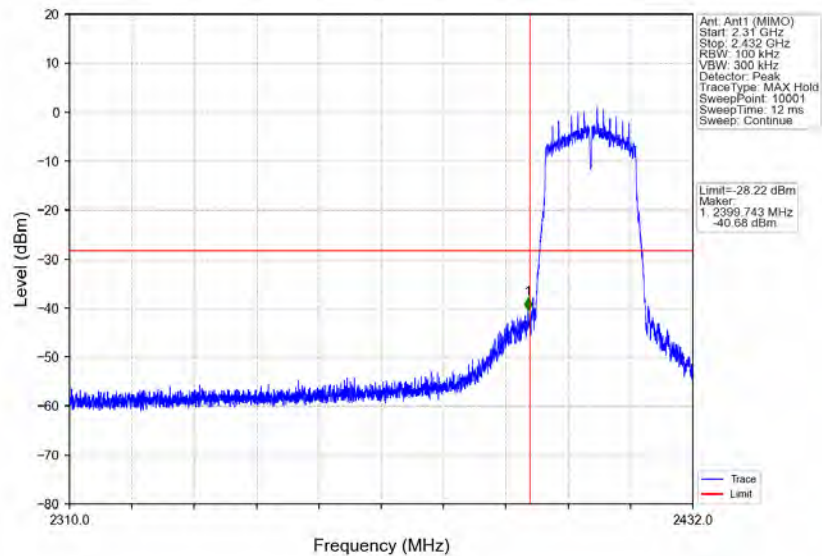
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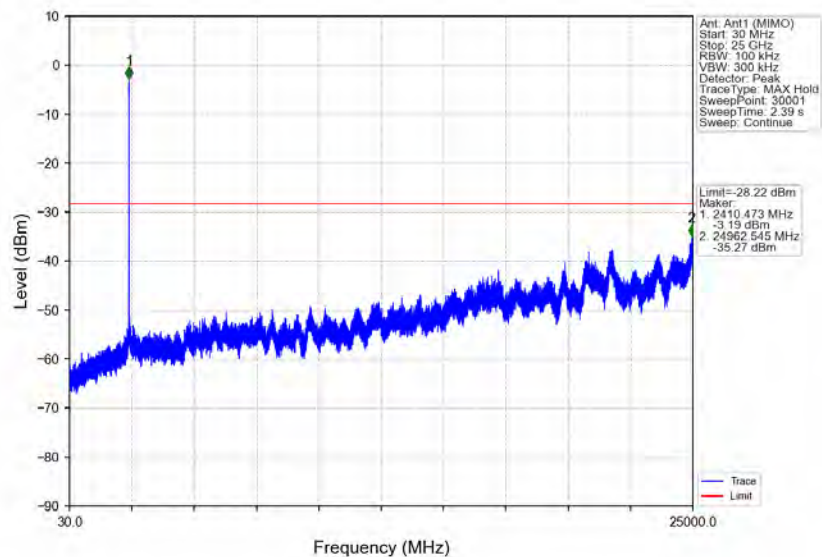
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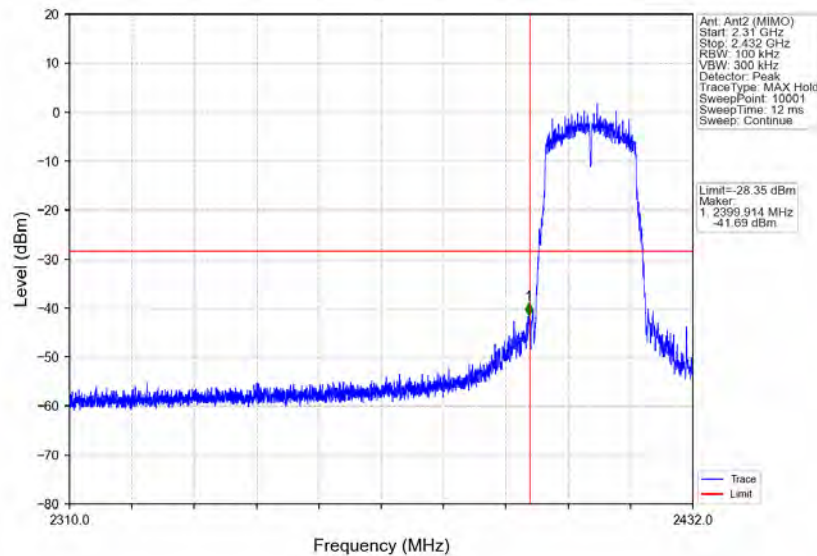
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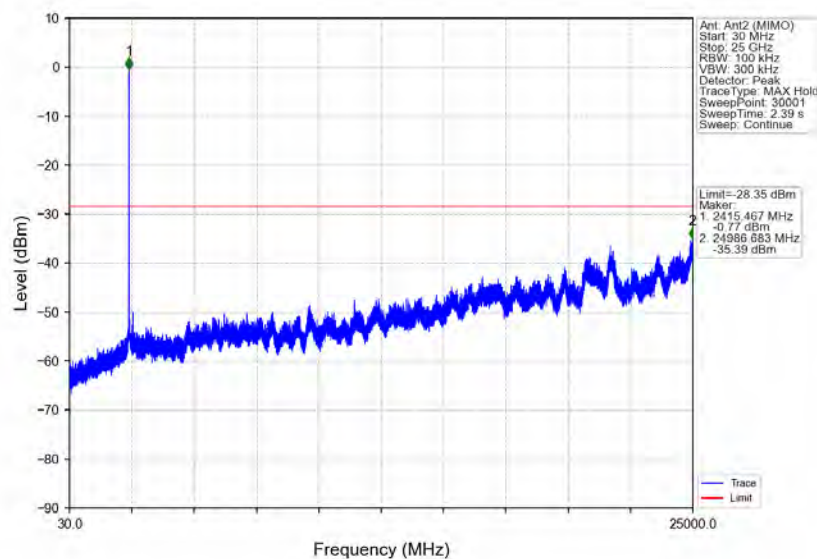
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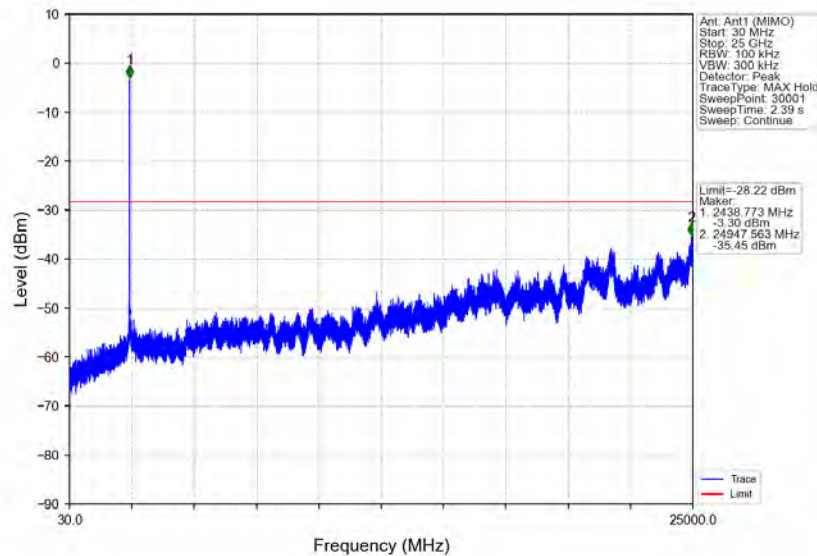
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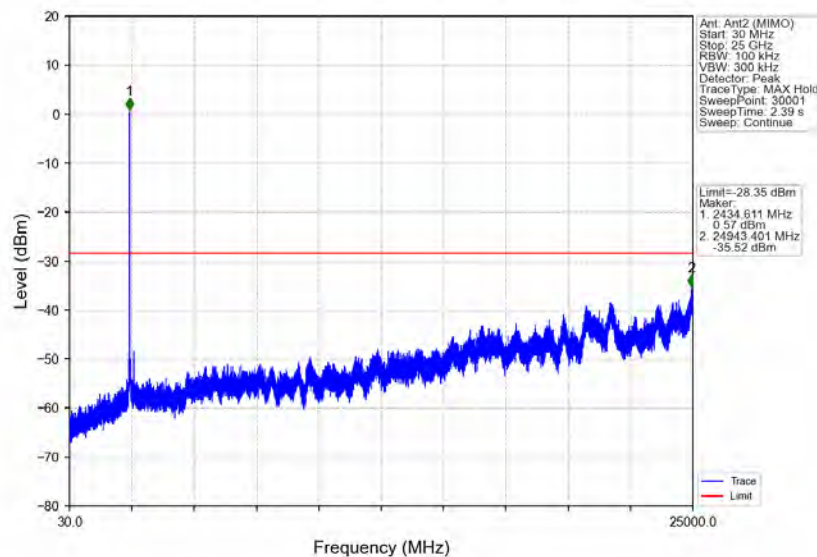
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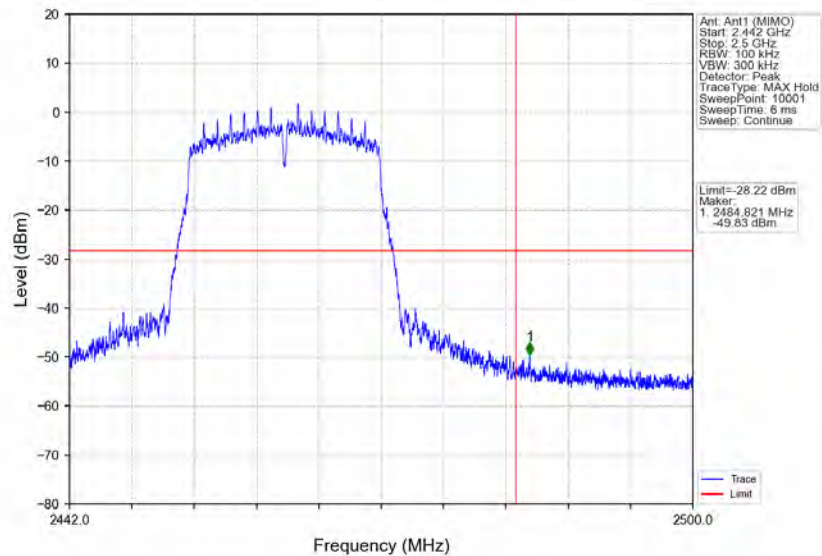
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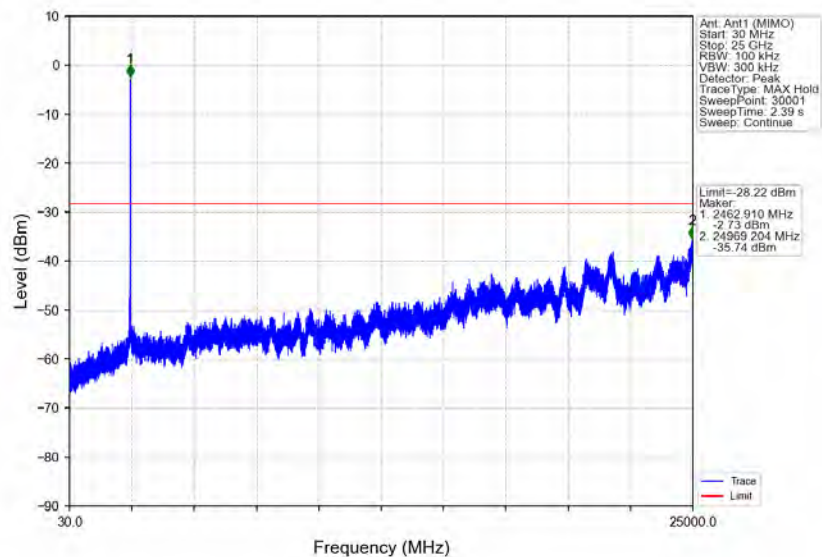
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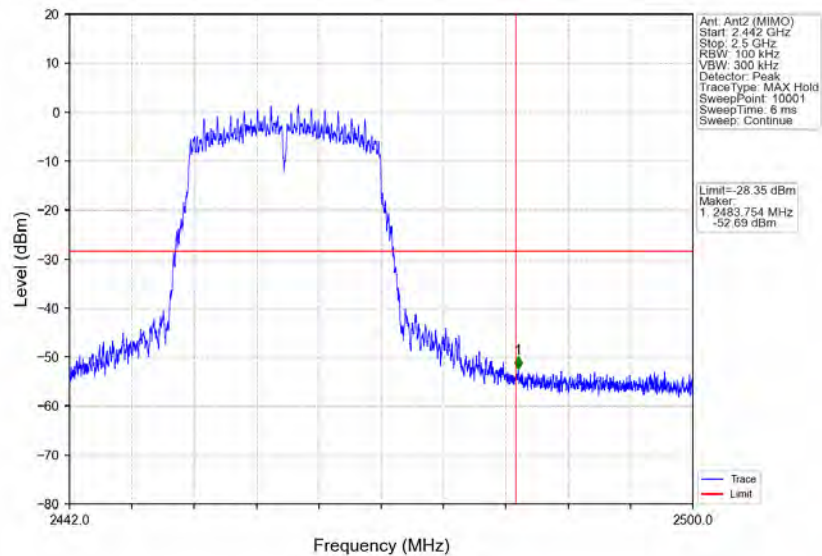
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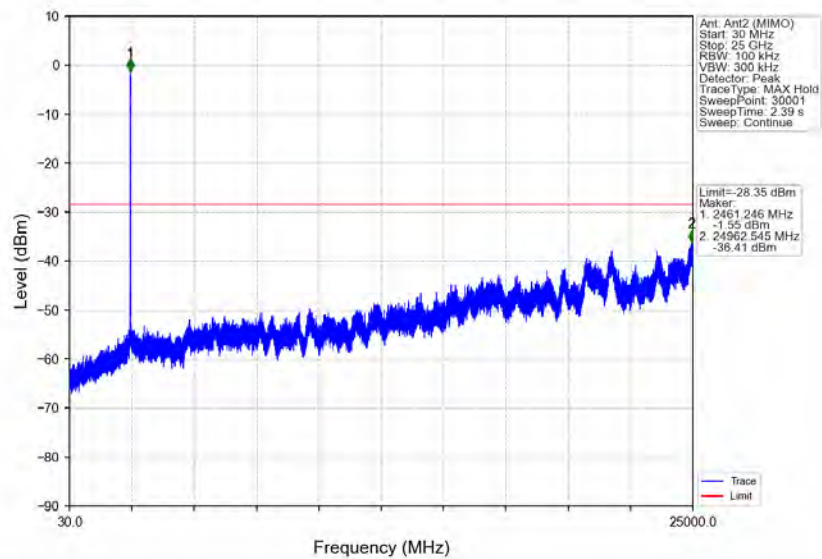
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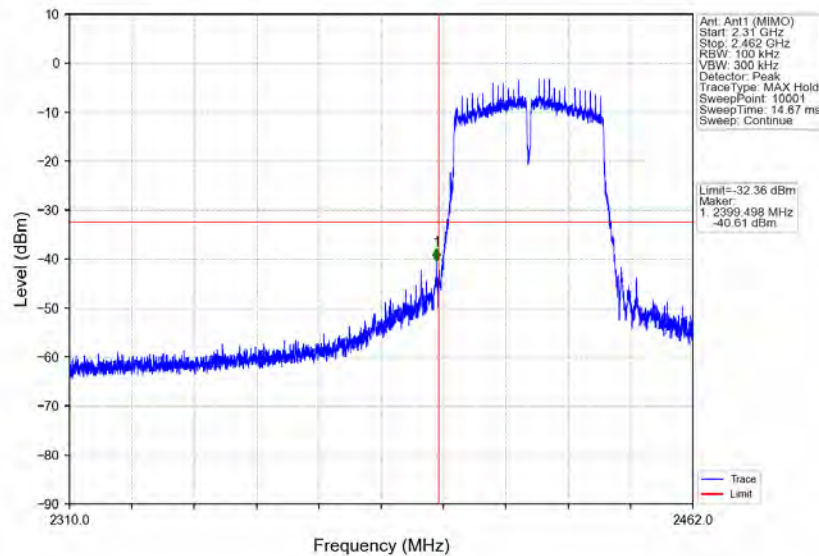
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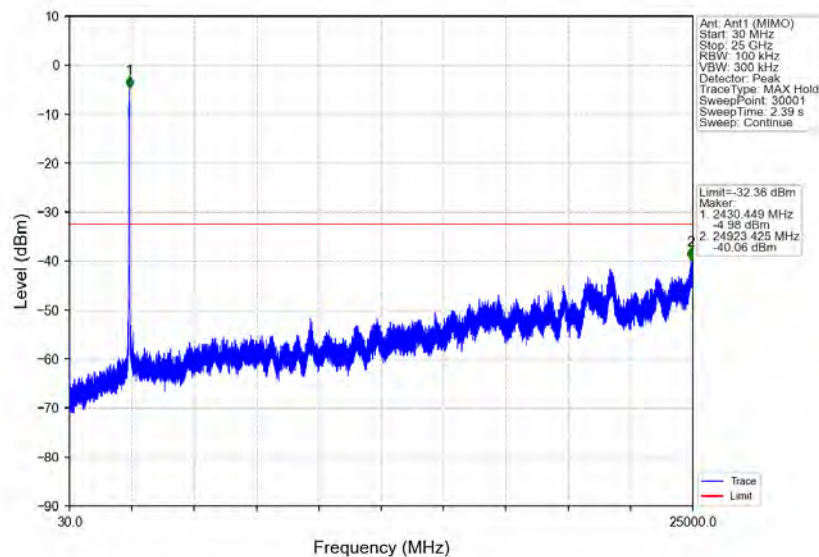
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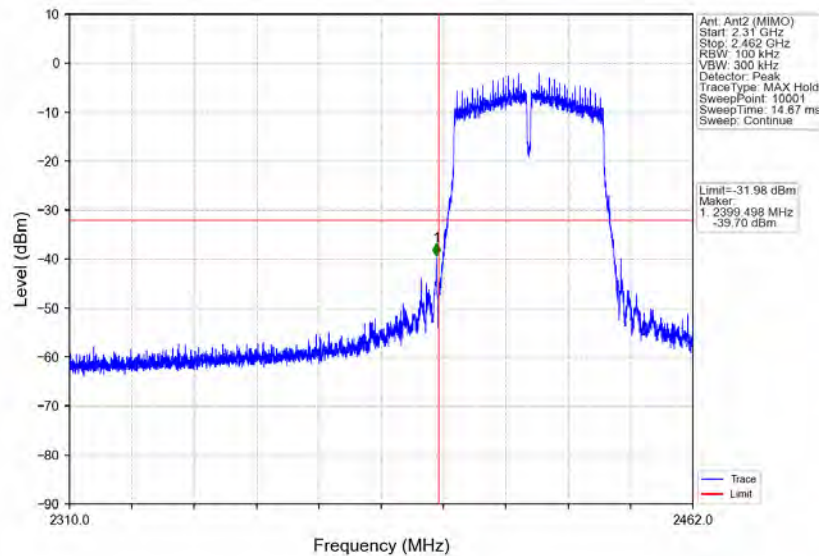
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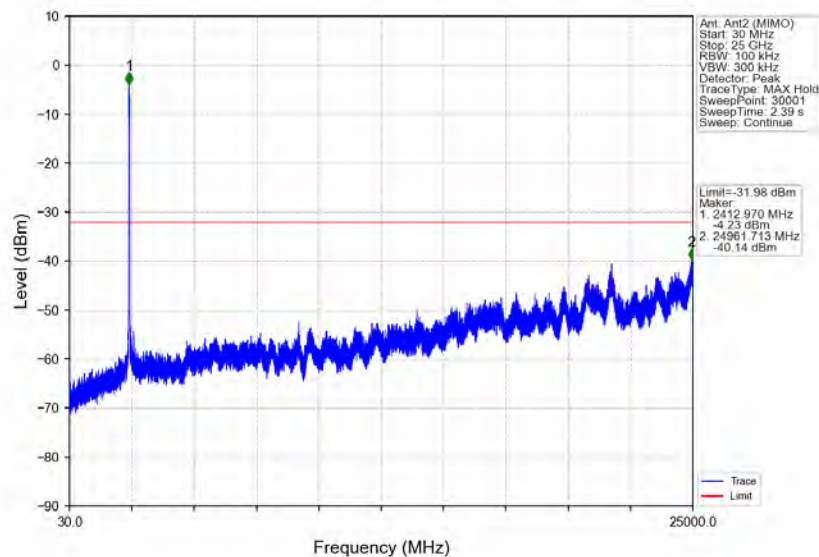
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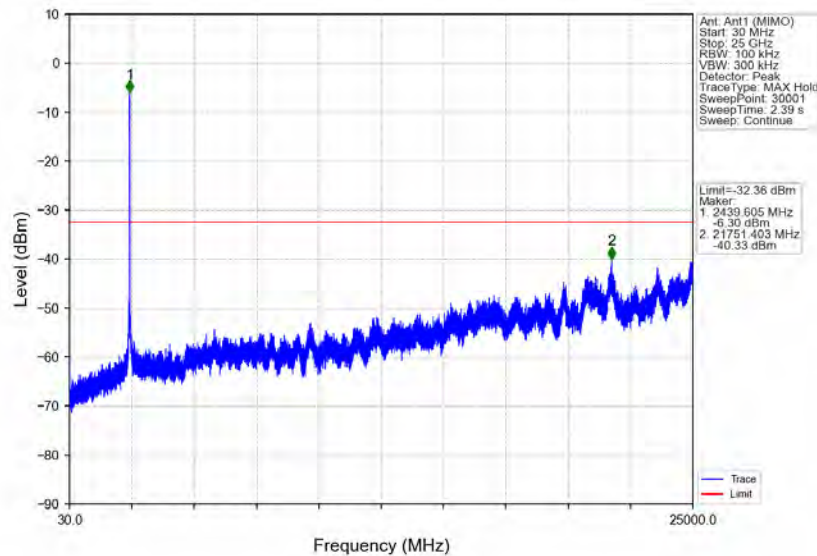
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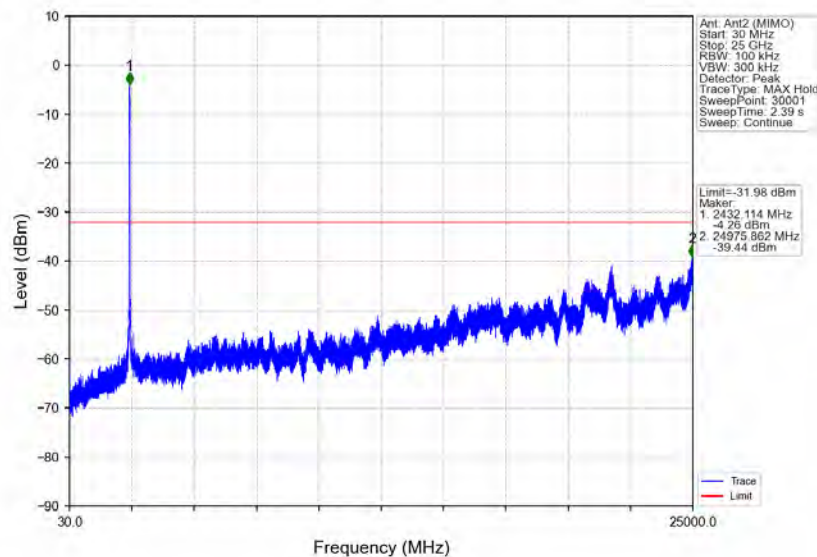
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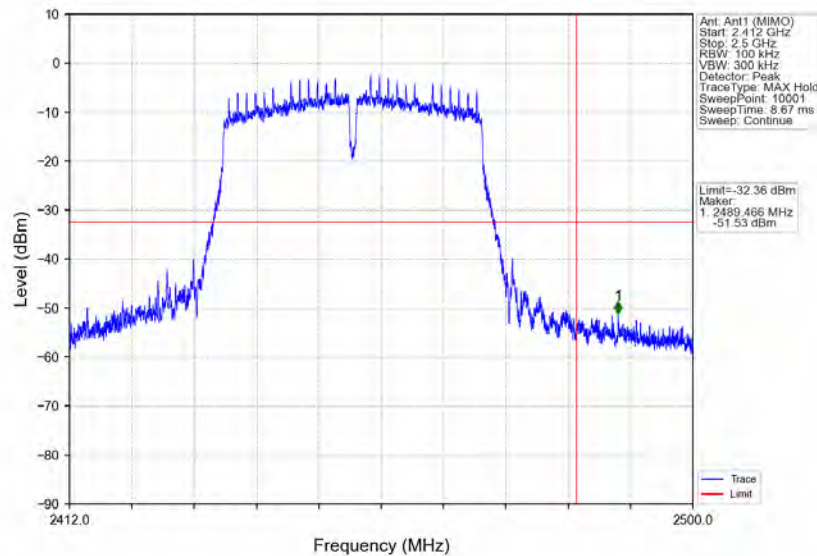
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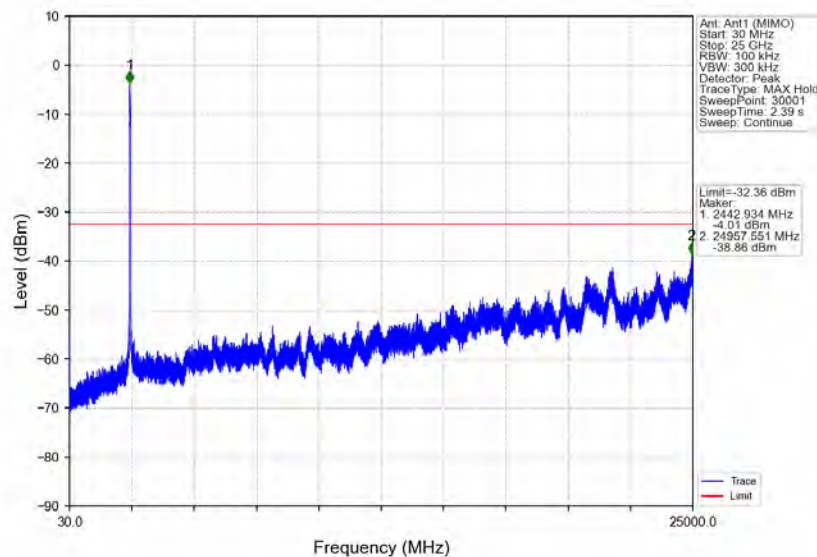
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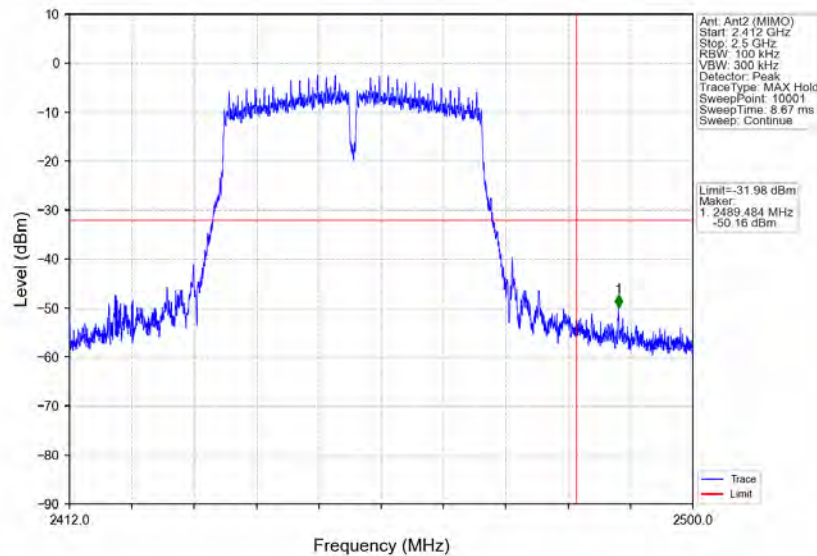
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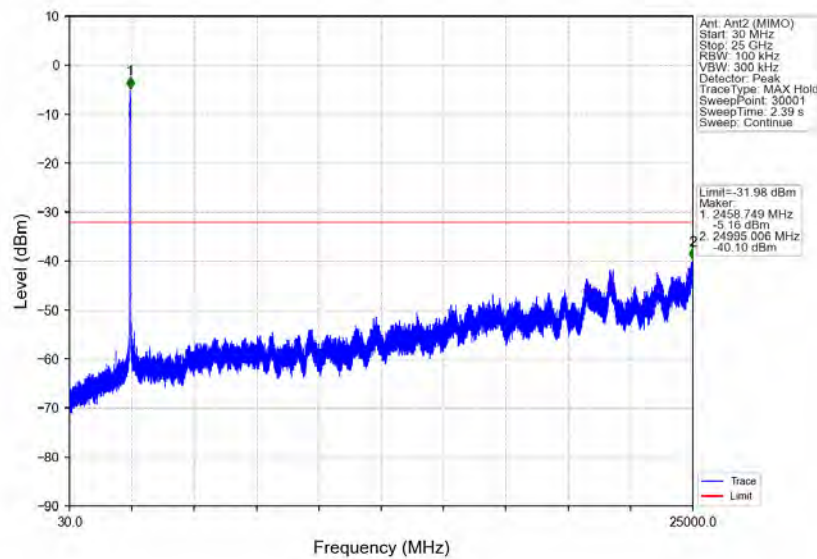
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