

Appendix A for SHEM210800969201

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	0.940	1.085	86.64	0.62	8.69
		2437	0.940	1.103	85.22	0.69	10.96
		2462	0.940	1.085	86.64	0.62	9.59
802.11g	SISO	2412	0.174	0.354	49.15	3.08	27.09
		2437	0.177	0.328	53.96	2.68	26.59
		2462	0.177	0.346	51.16	2.91	23.26
802.11n (HT20)	MIMO	2412	0.162	0.343	47.23	3.26	30.81
		2437	0.162	0.343	47.23	3.26	21.74
		2462	0.165	0.342	48.25	3.17	31.37



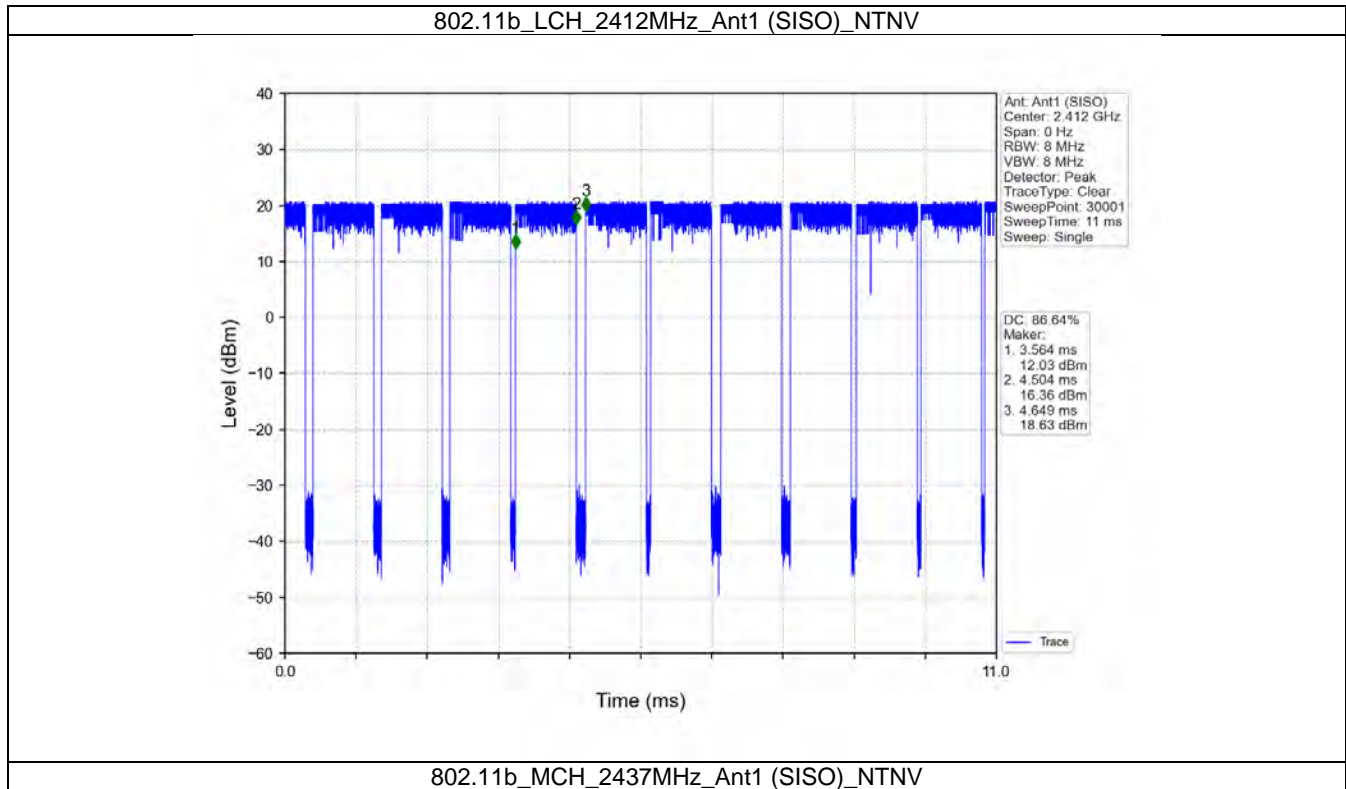
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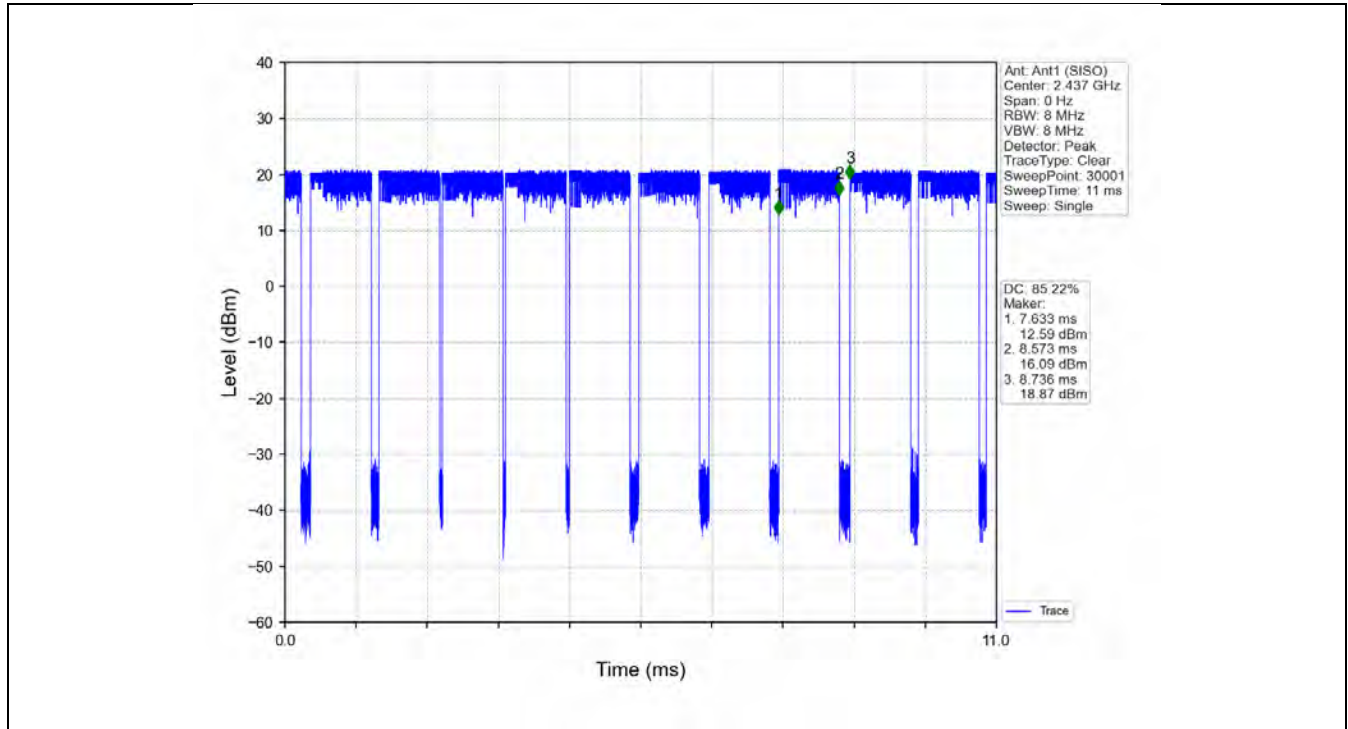
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1.1.2 Test Graph



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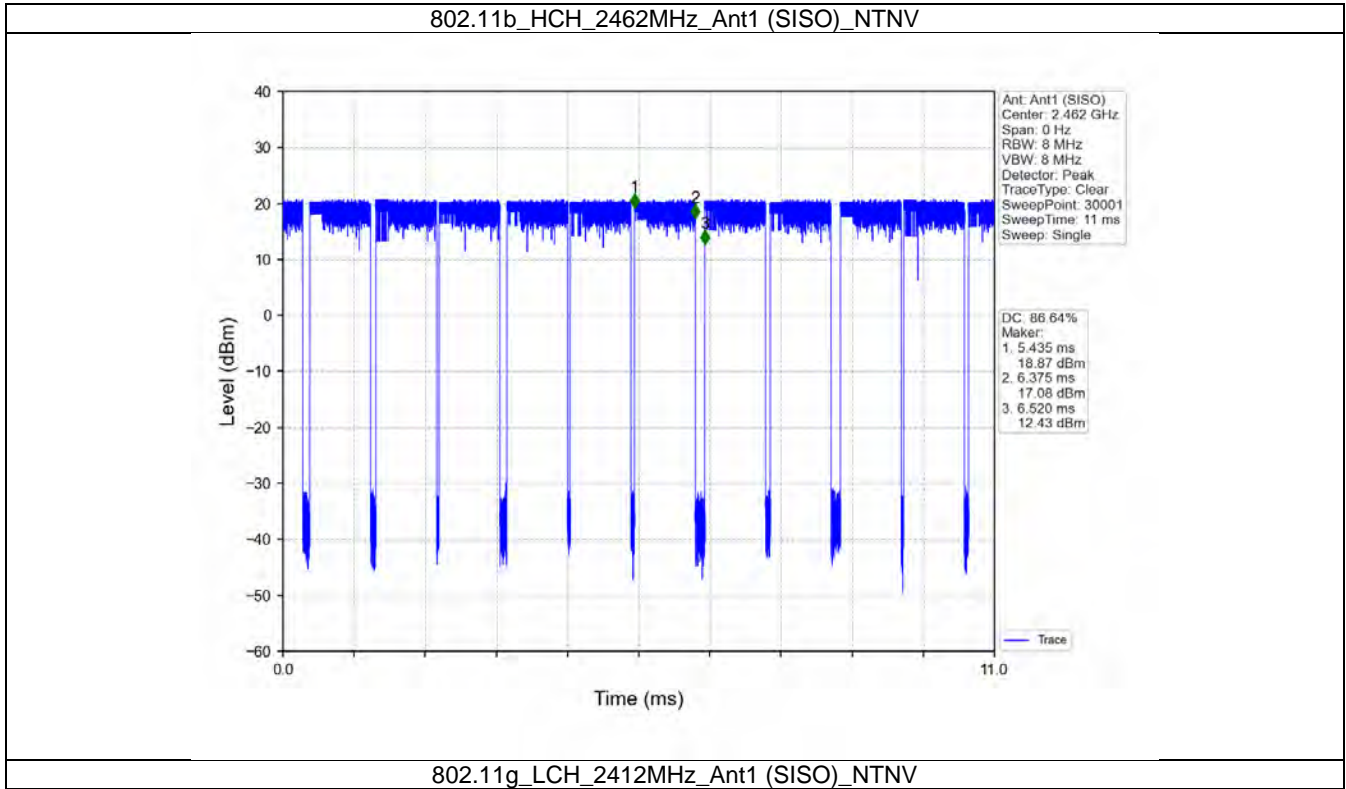
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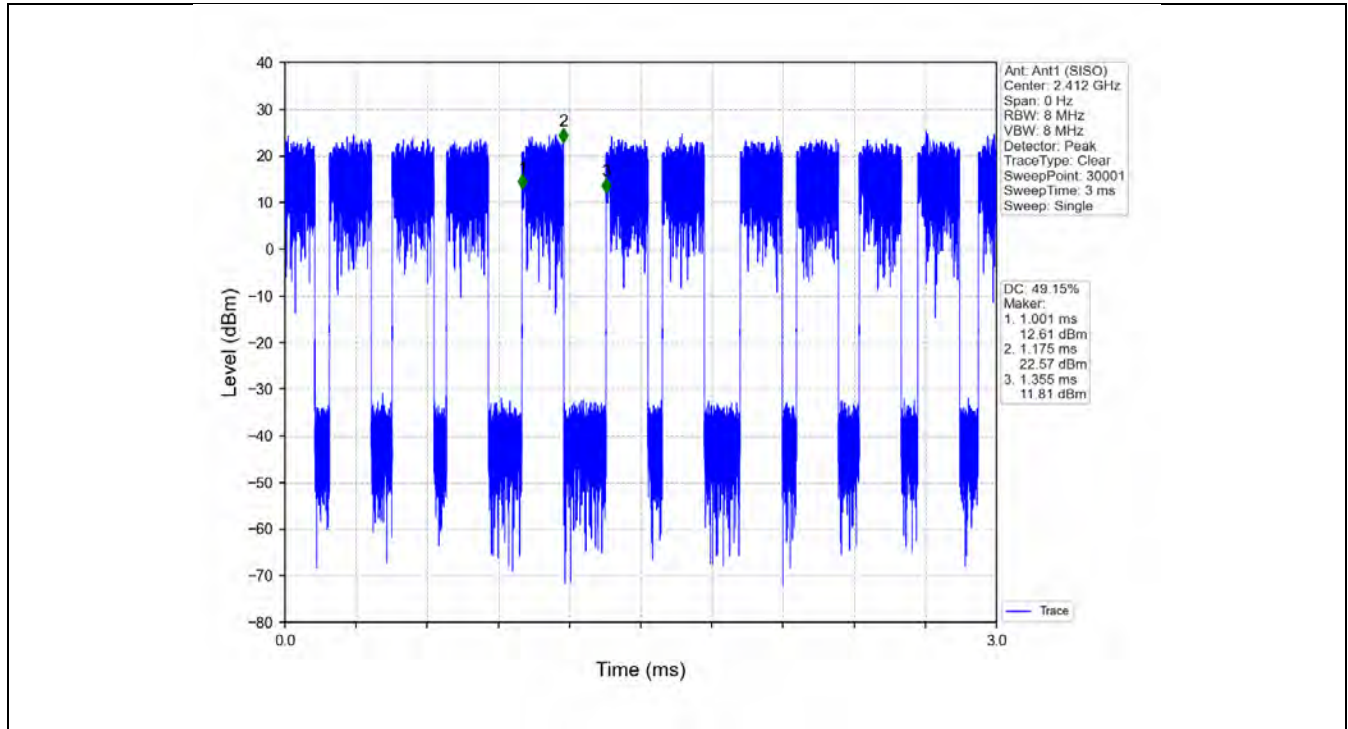


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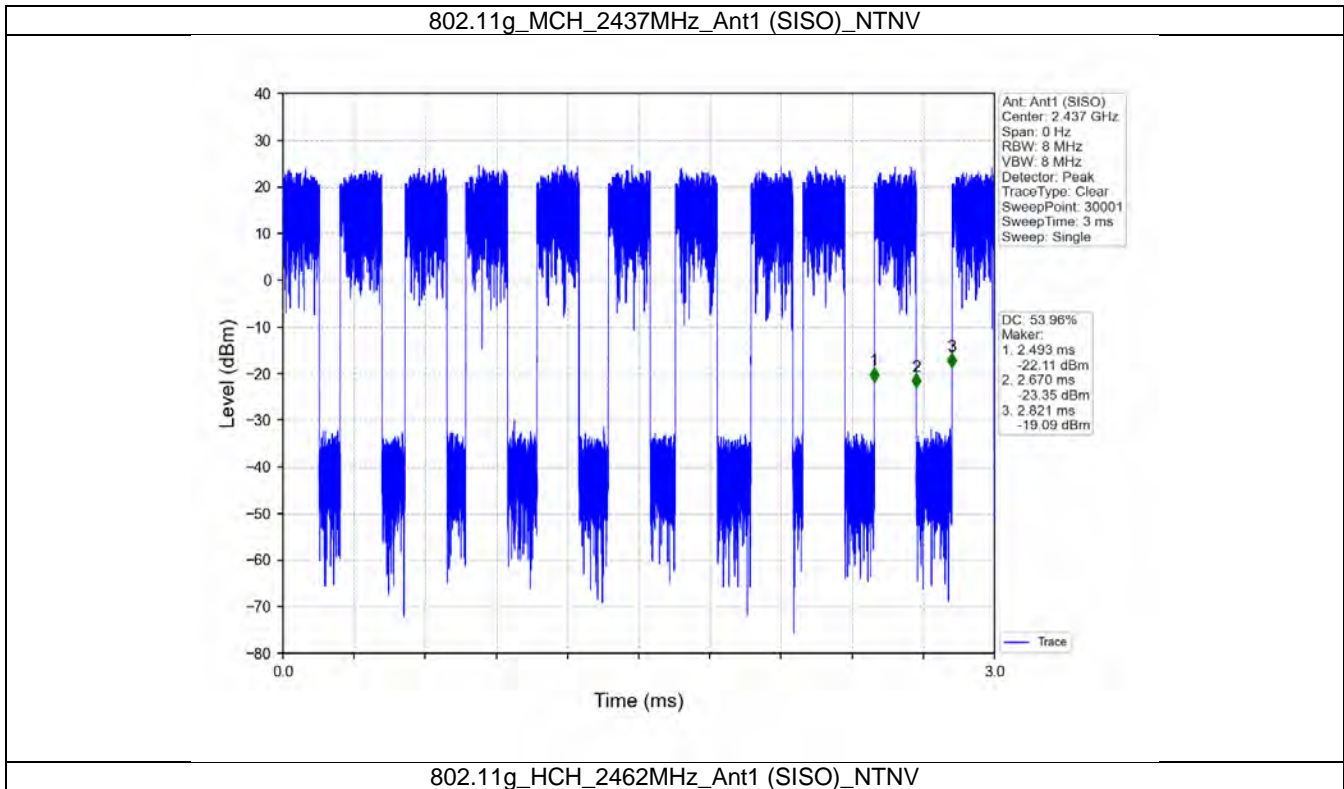
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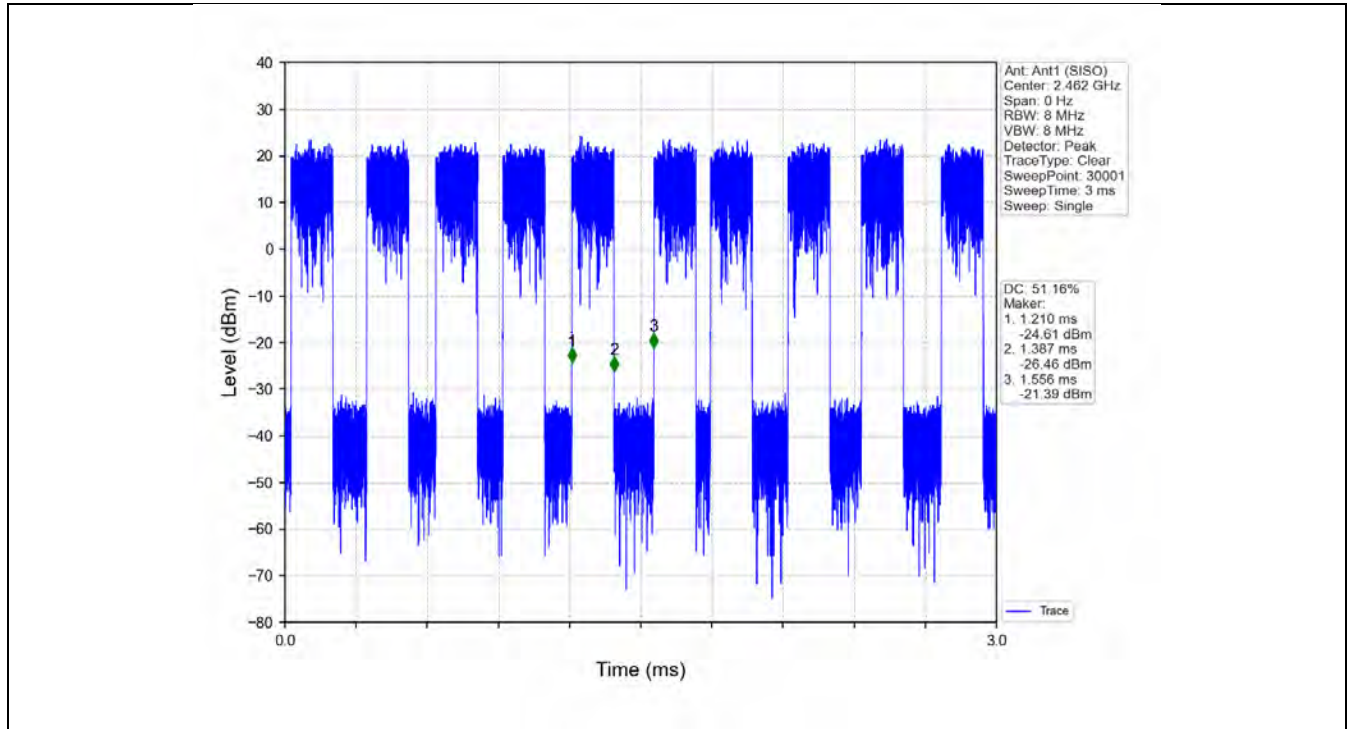
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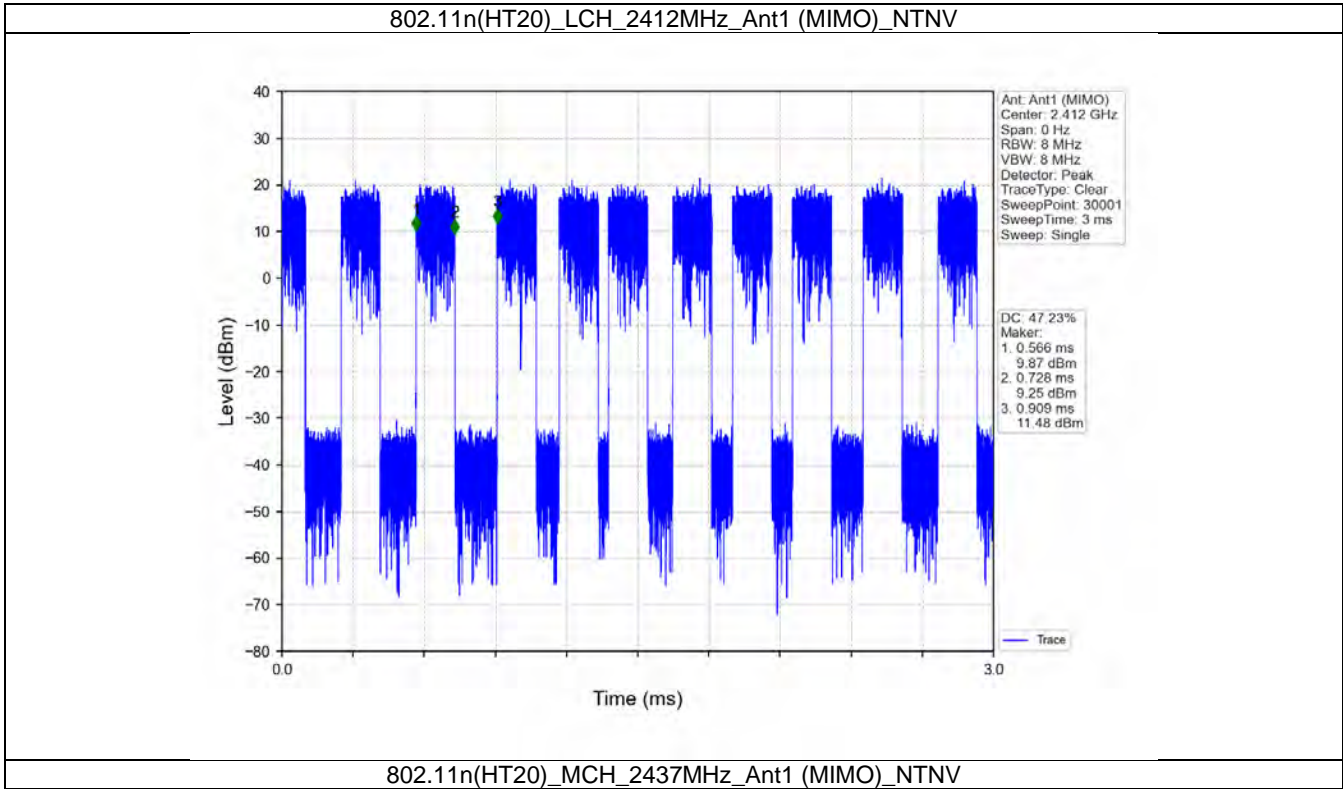


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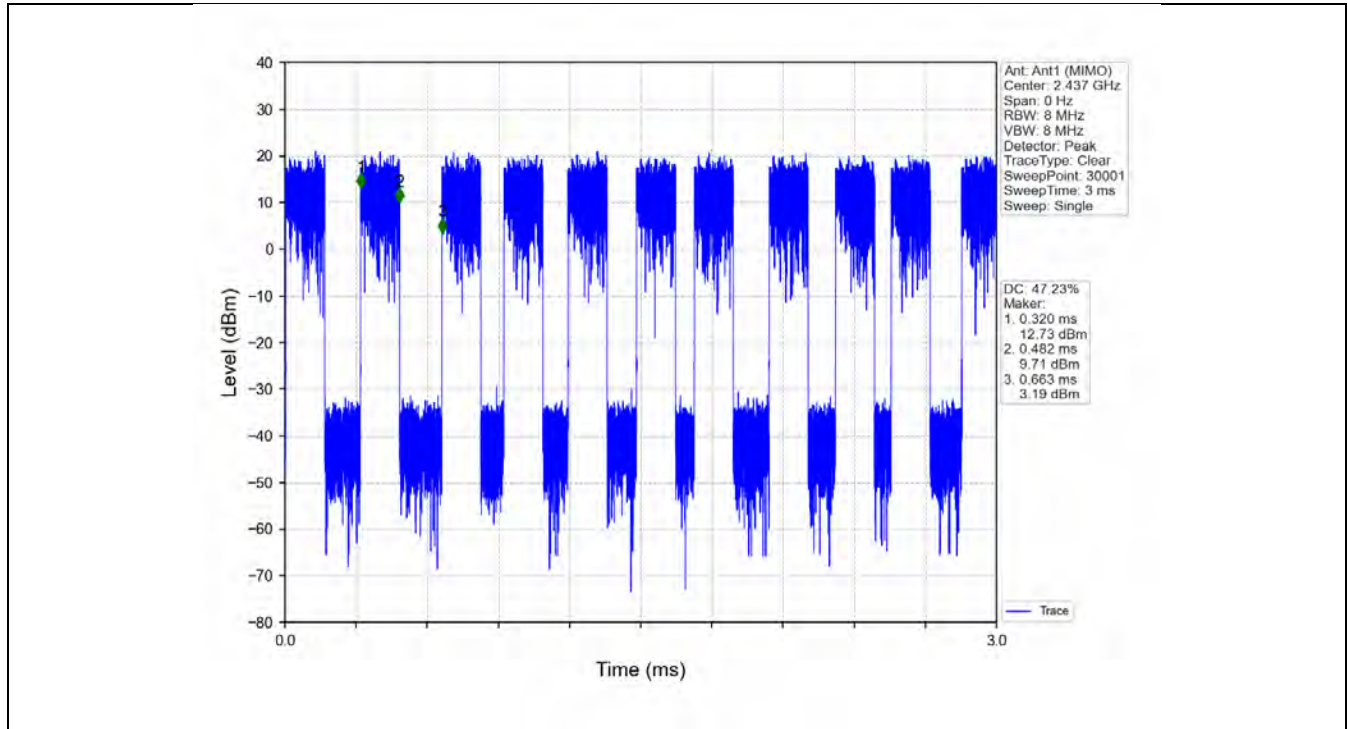


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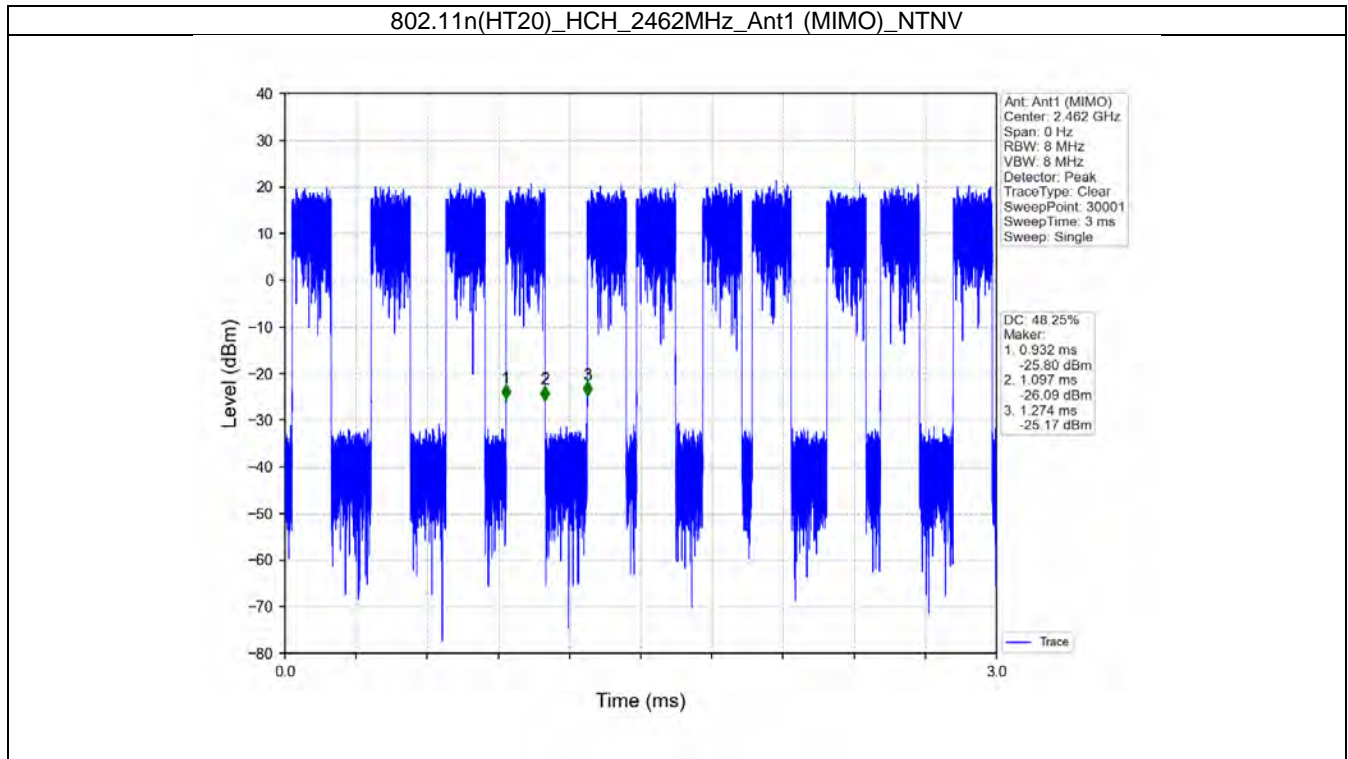


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

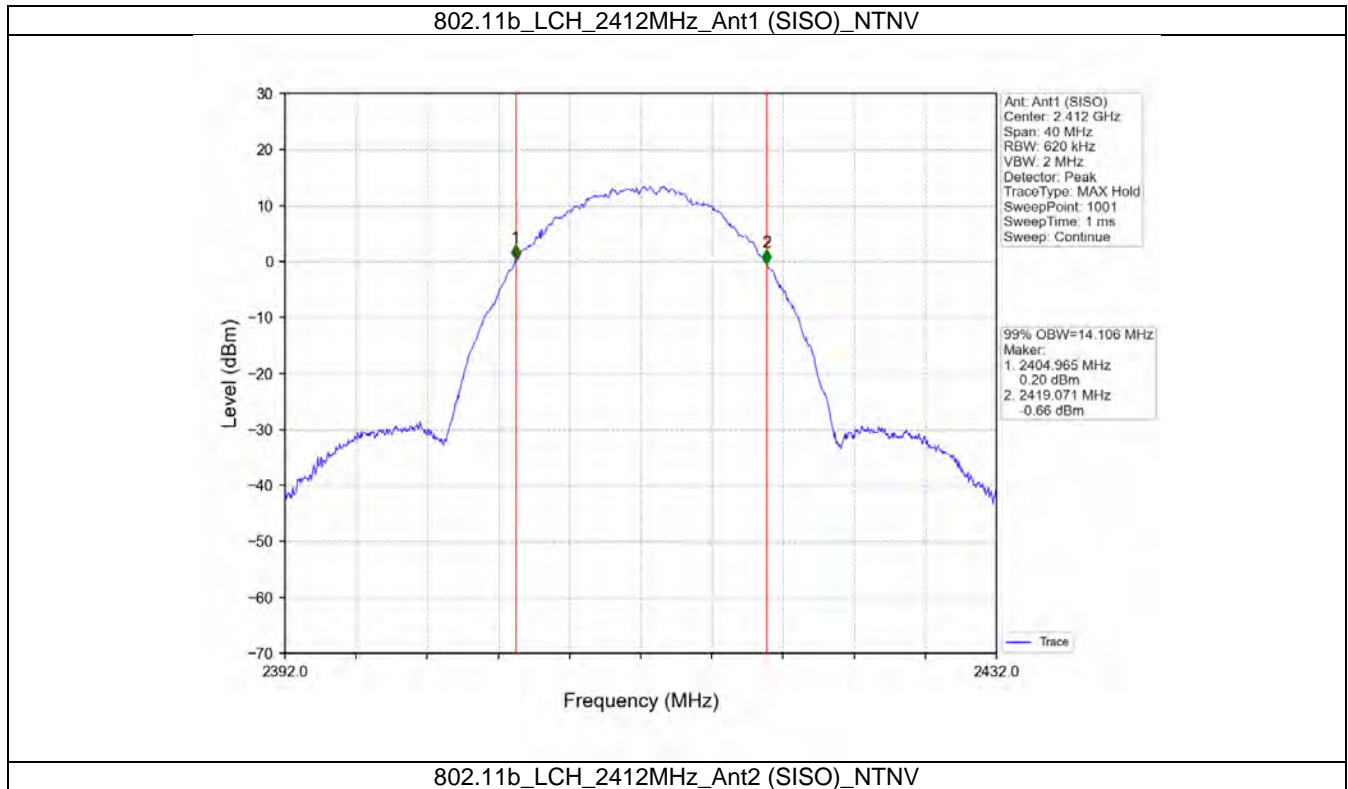
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.106	Pass
			2	14.058	Pass
		2437	1	14.087	Pass
			2	14.027	Pass
		2462	1	14.127	Pass
			2	14.058	Pass
802.11g	SISO	2412	1	16.991	Pass
			2	17.002	Pass
		2437	1	16.931	Pass
			2	16.956	Pass
		2462	1	16.949	Pass
			2	16.953	Pass
802.11n (HT20)	MIMO	2412	1	17.793	Pass
			2	17.797	Pass
		2437	1	17.784	Pass
			2	17.758	Pass
		2462	1	17.817	Pass
			2	17.824	Pass



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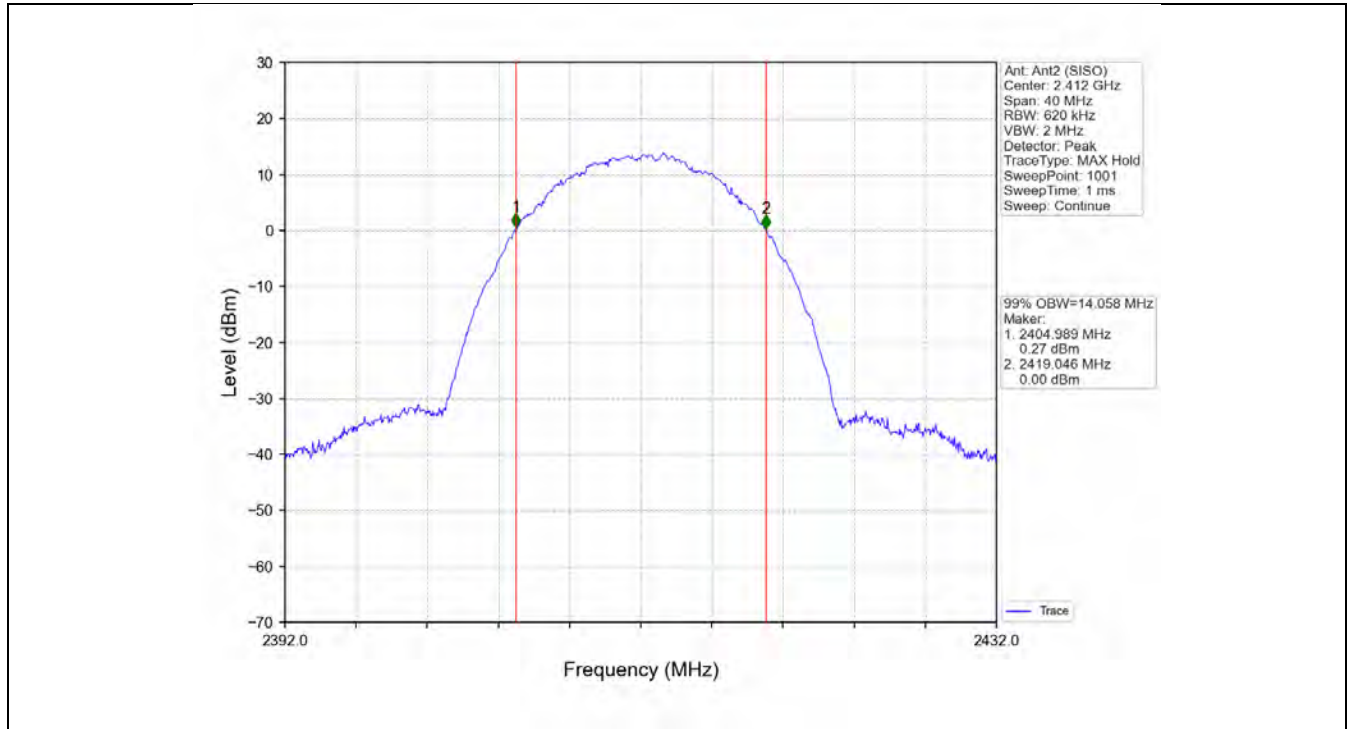
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2.1.2 Test Graph



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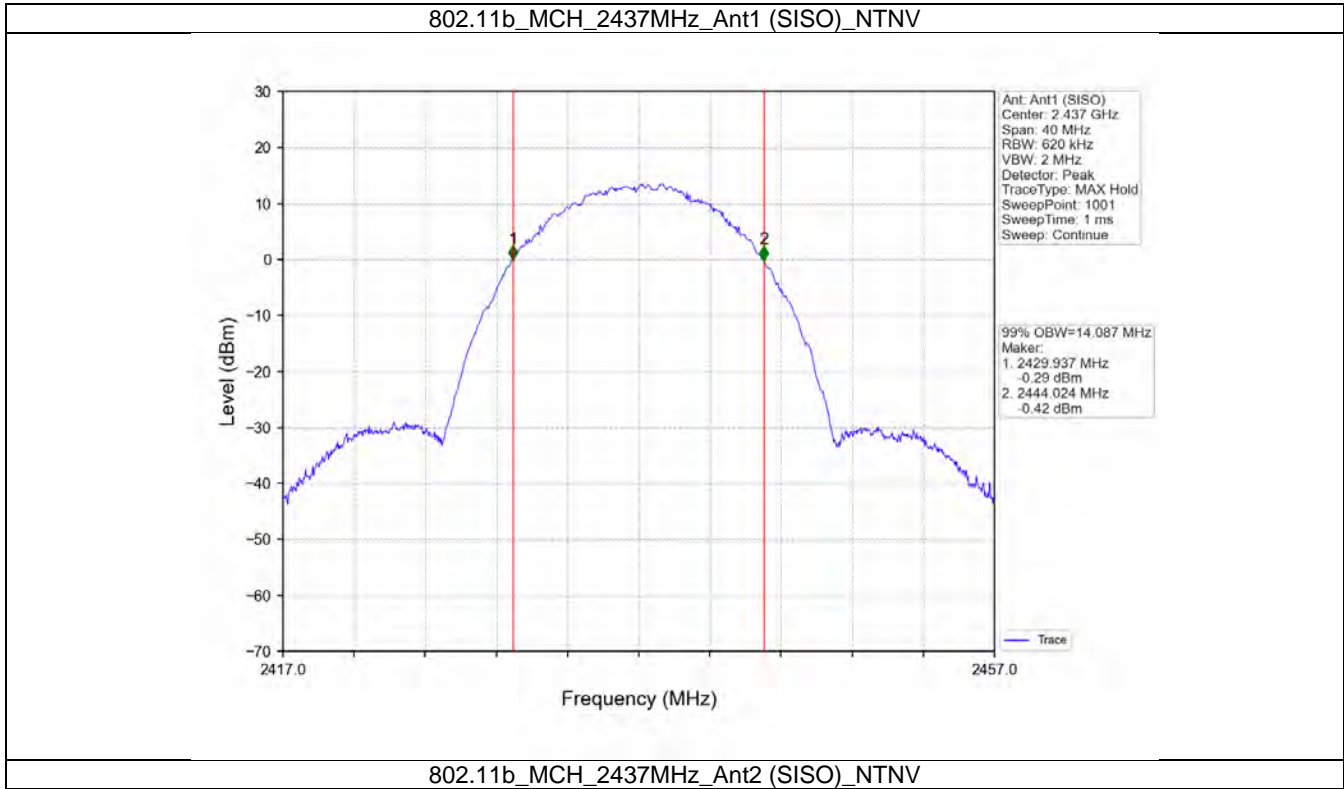


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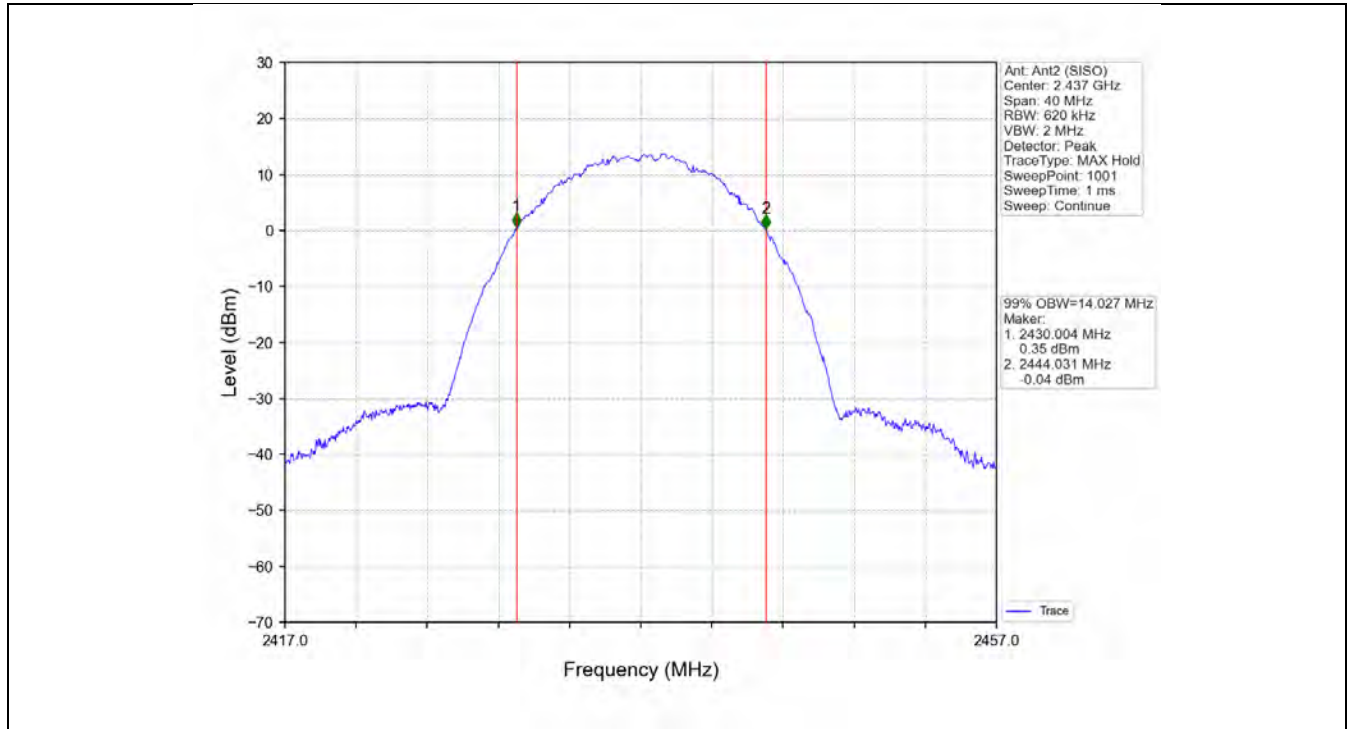


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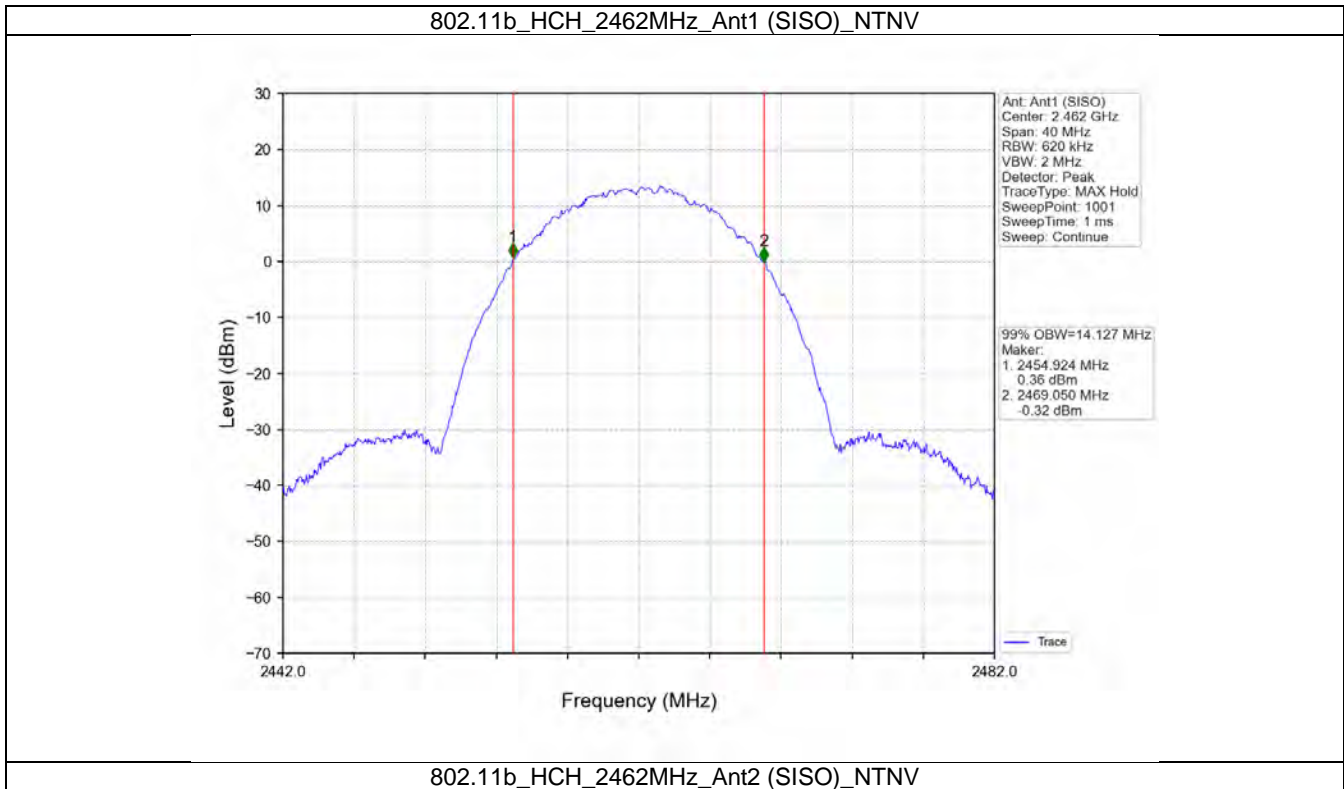
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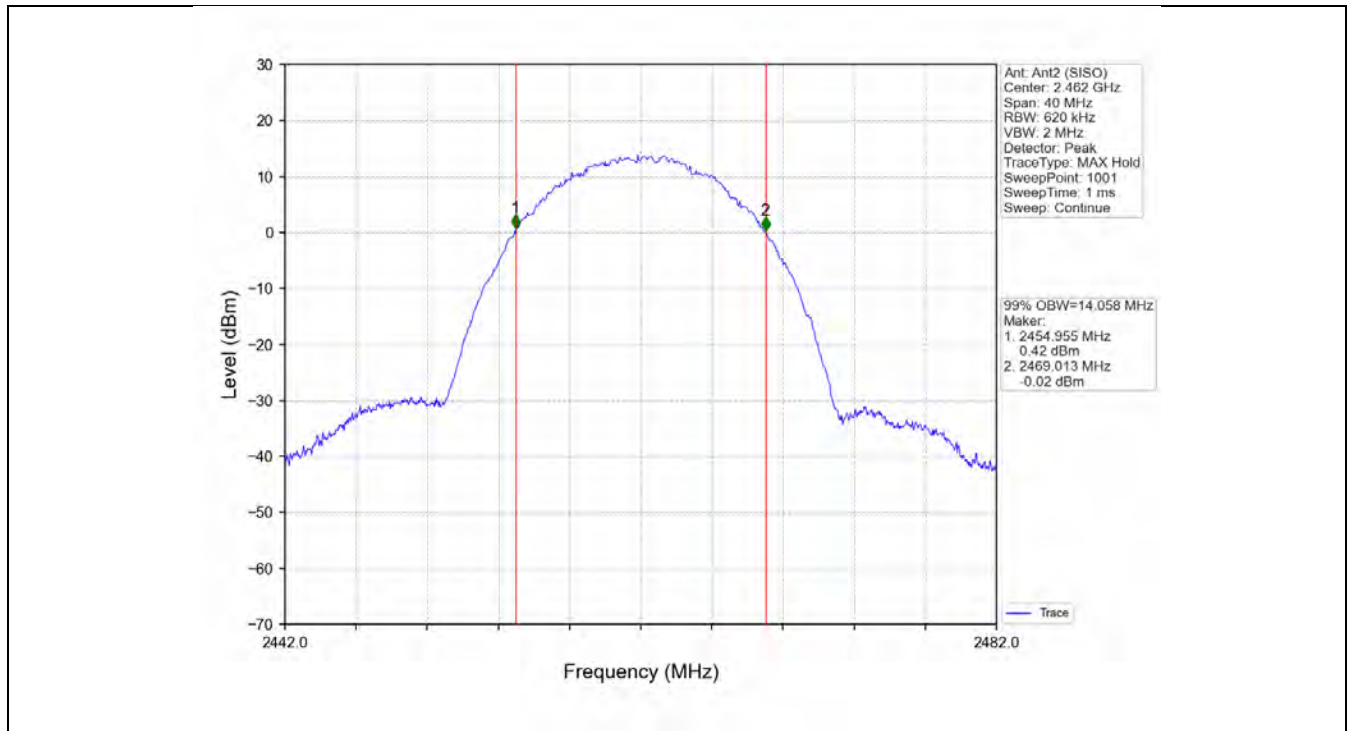


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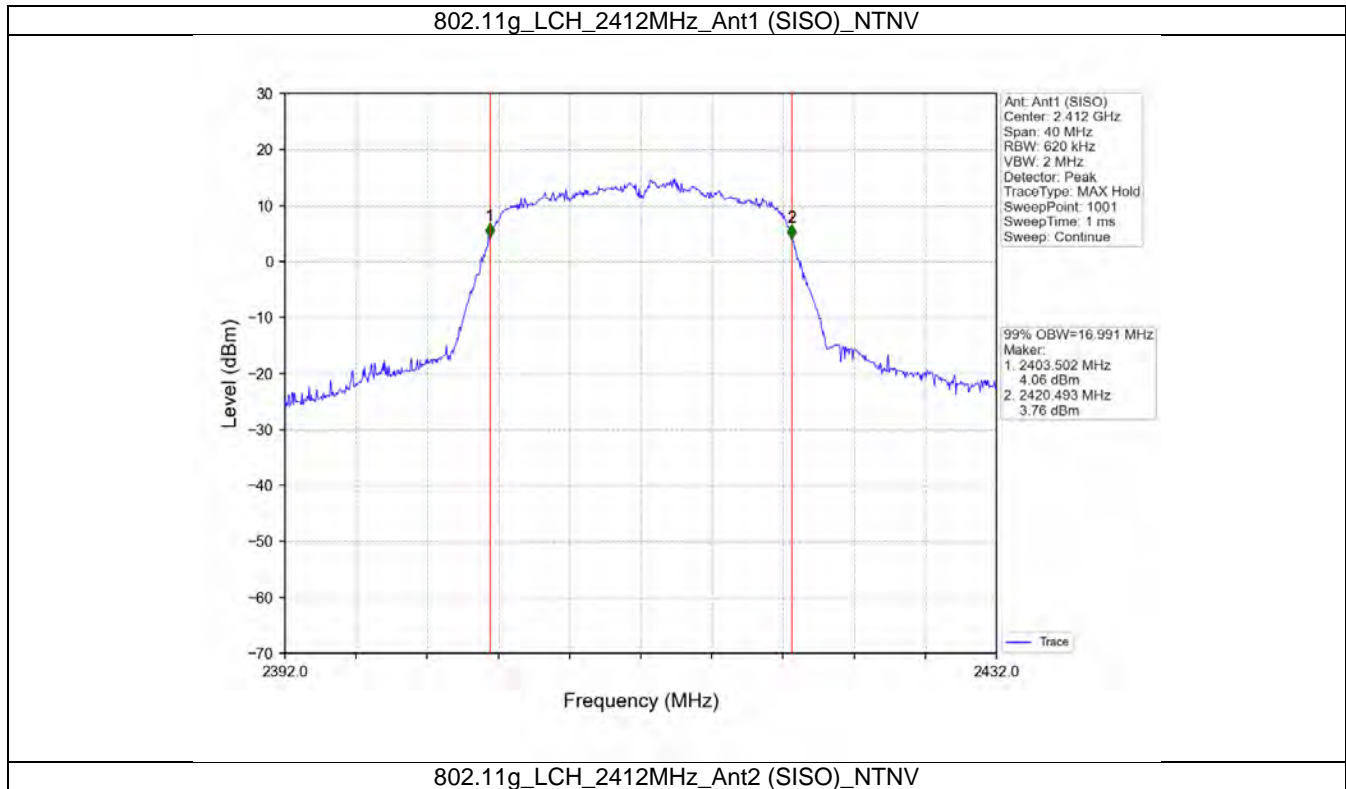


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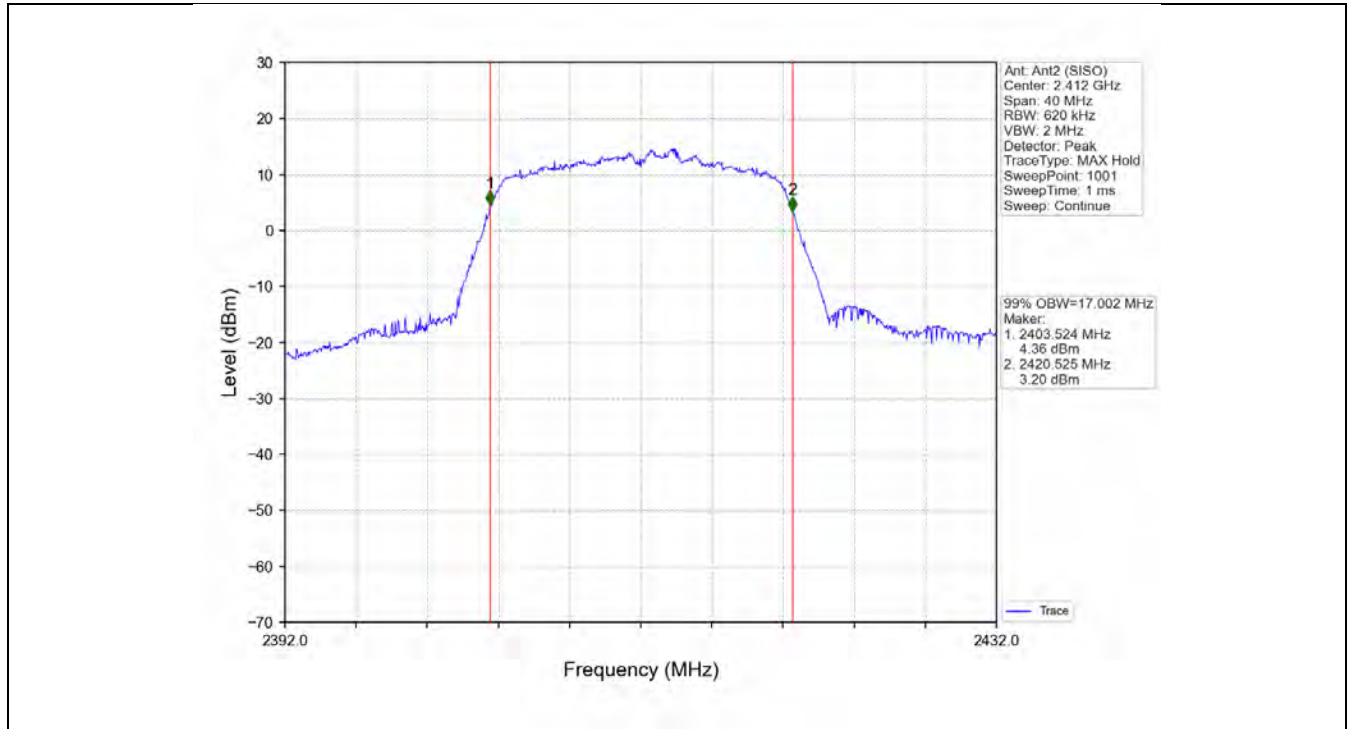


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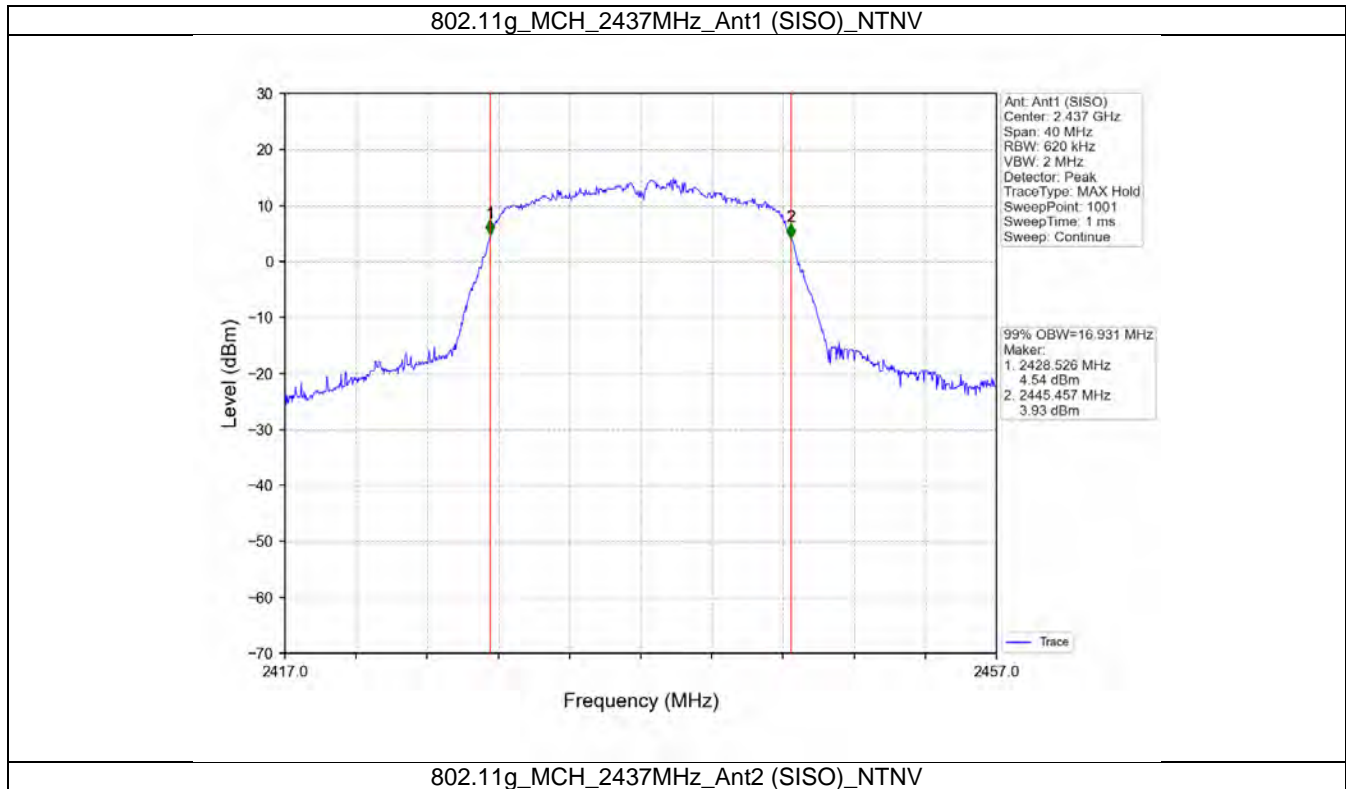
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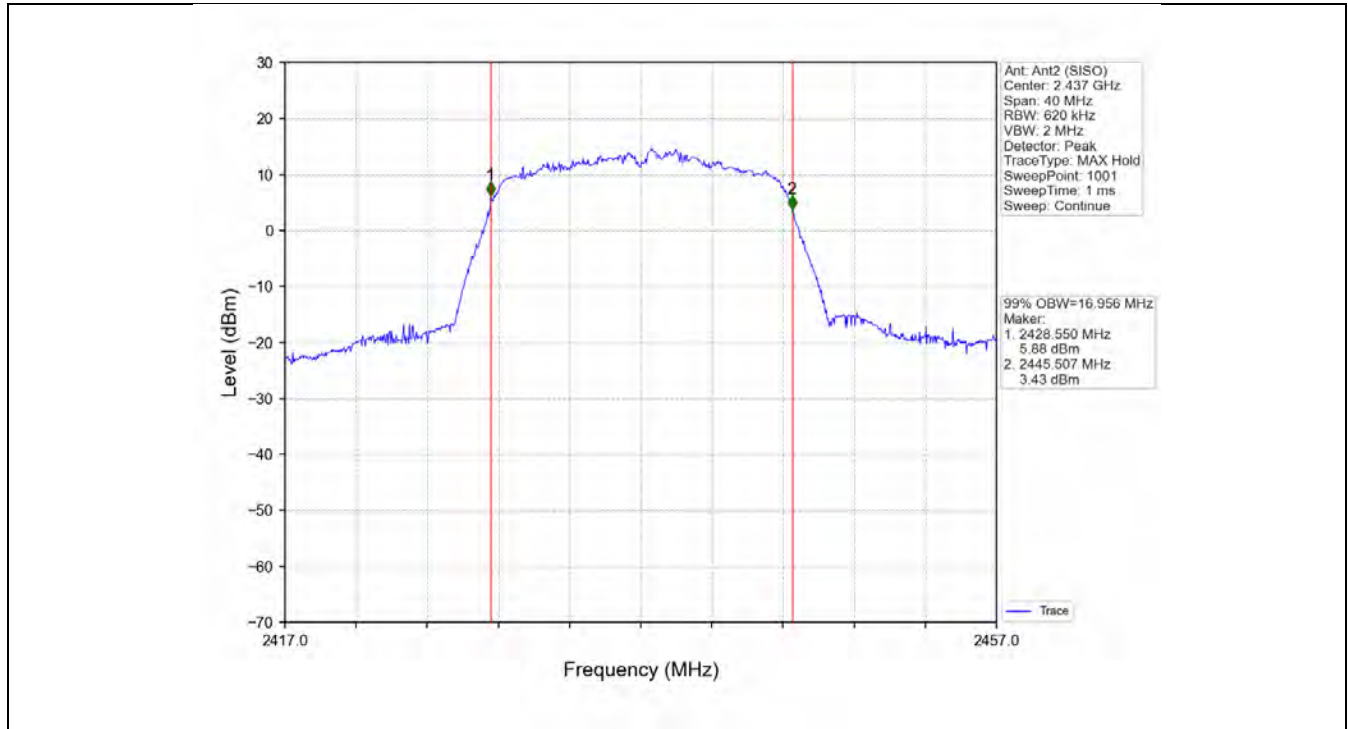


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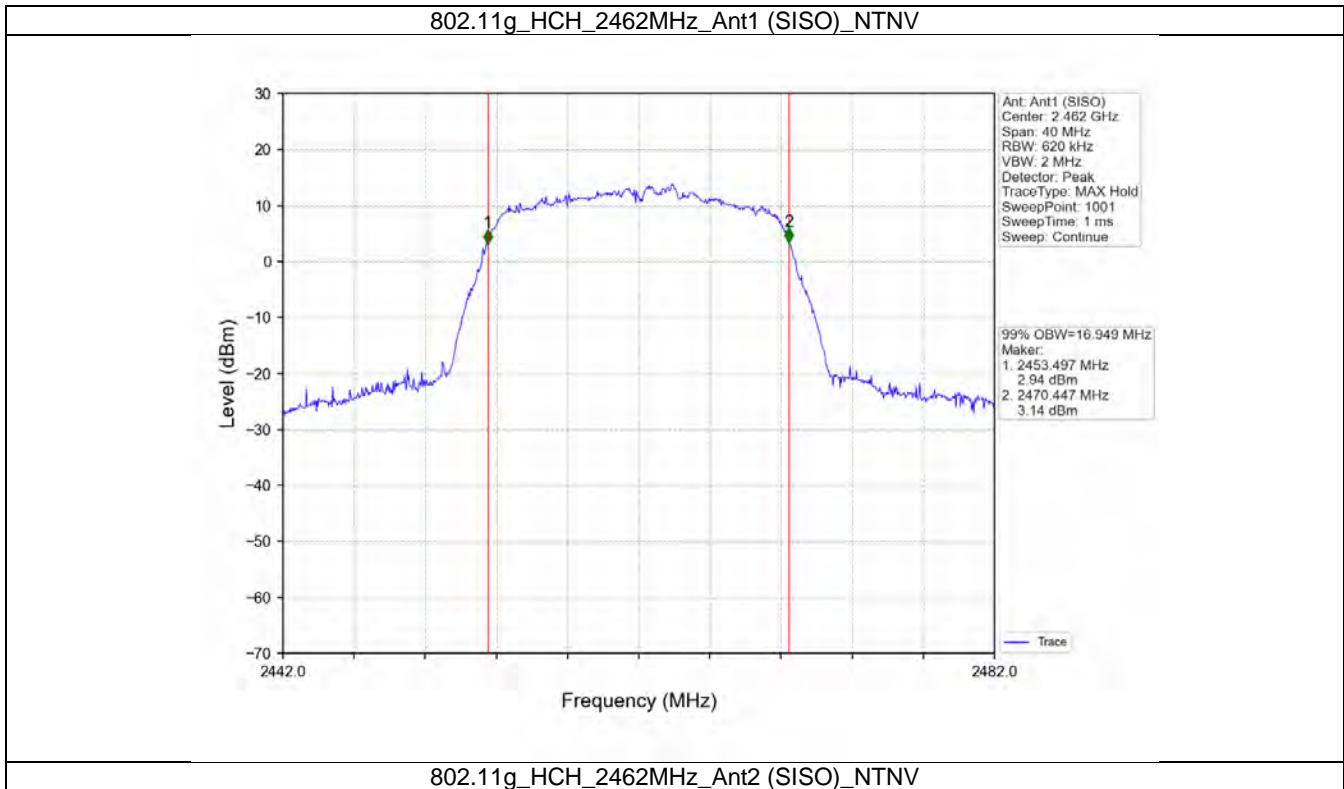


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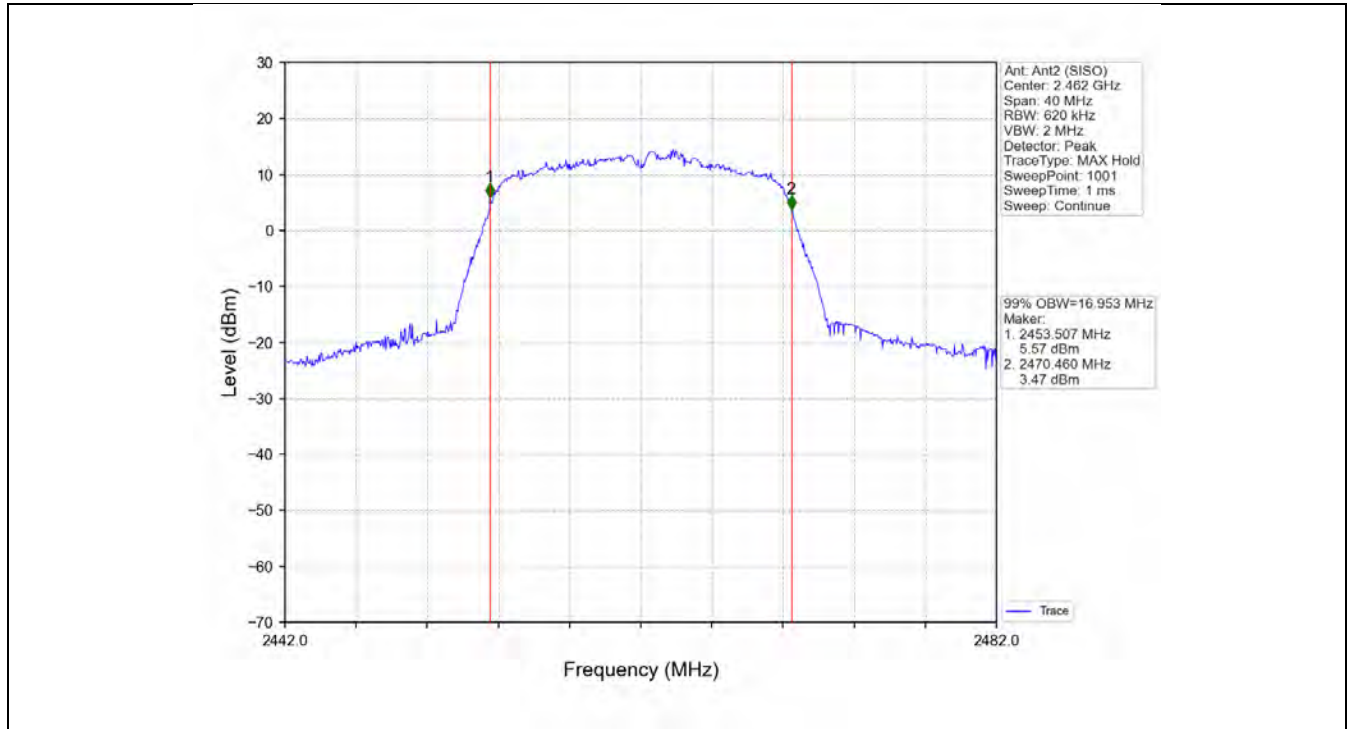


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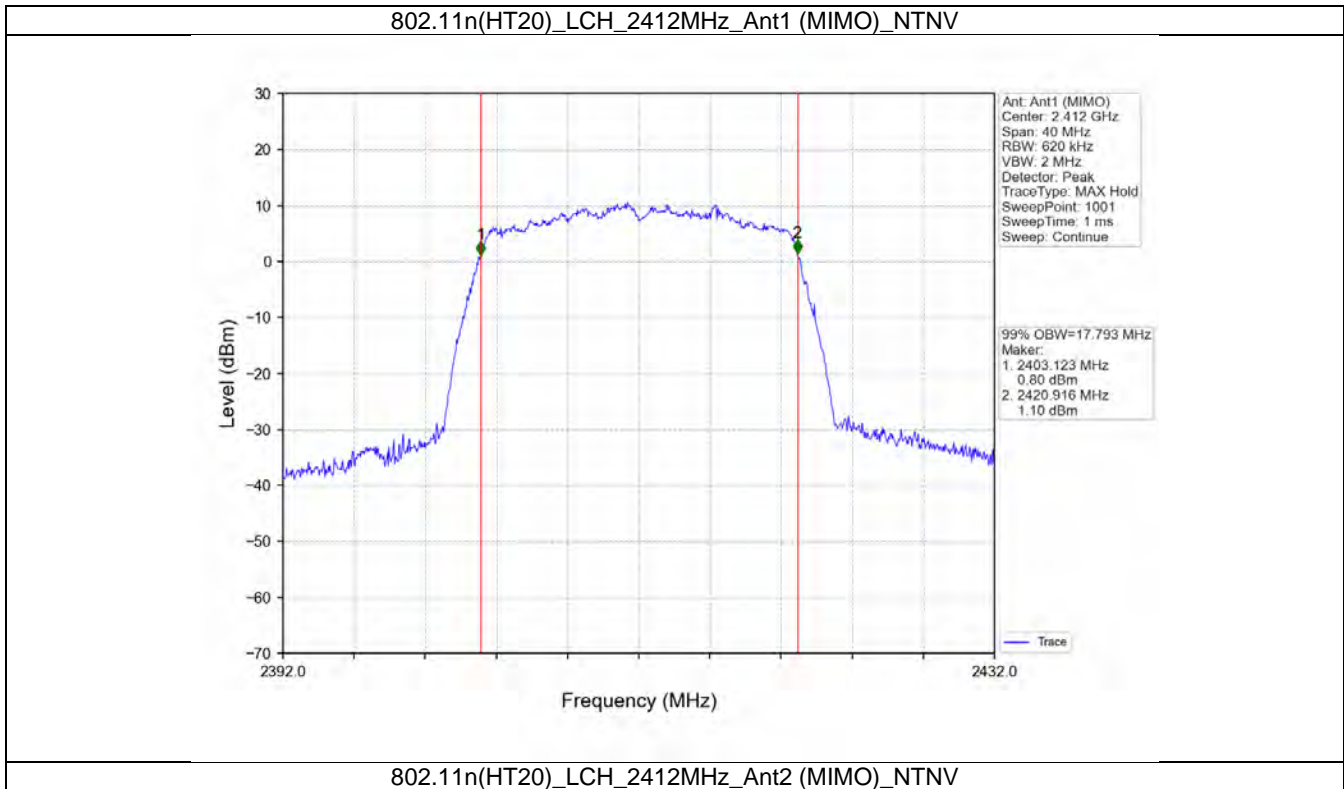
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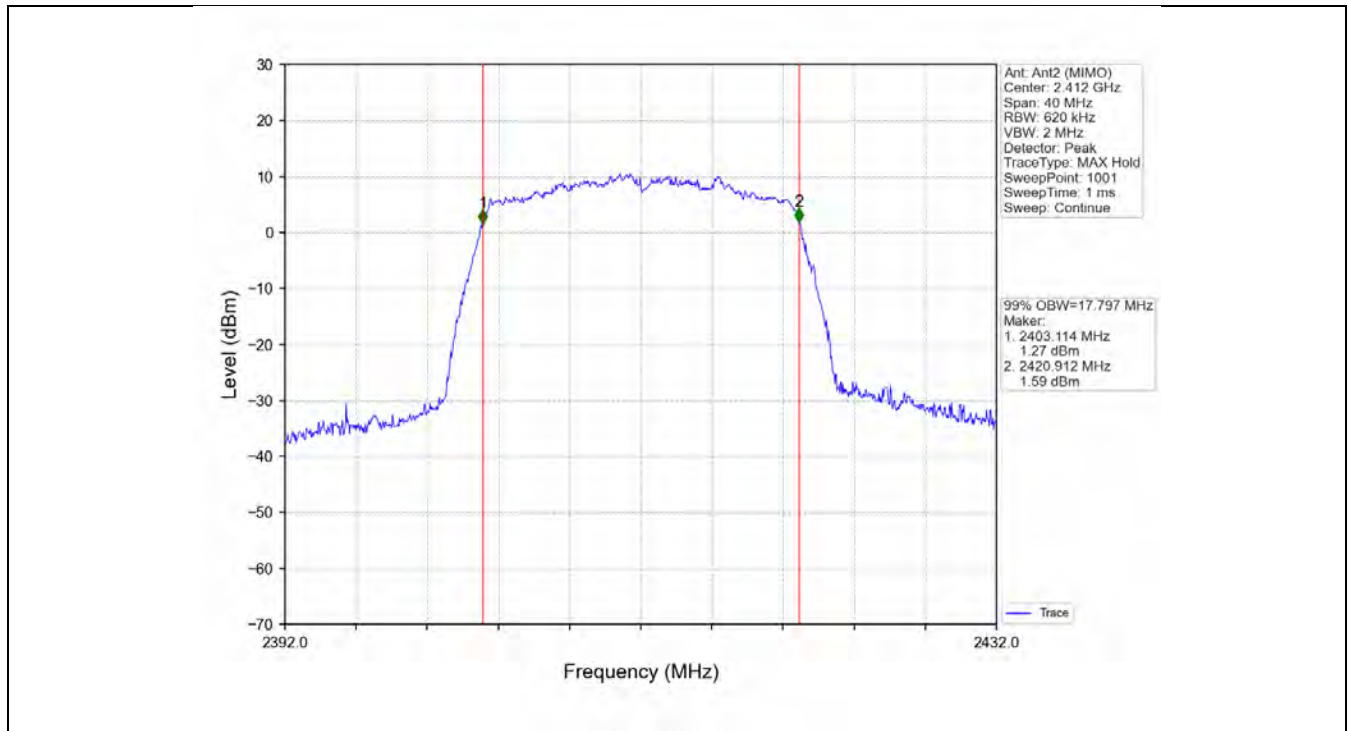


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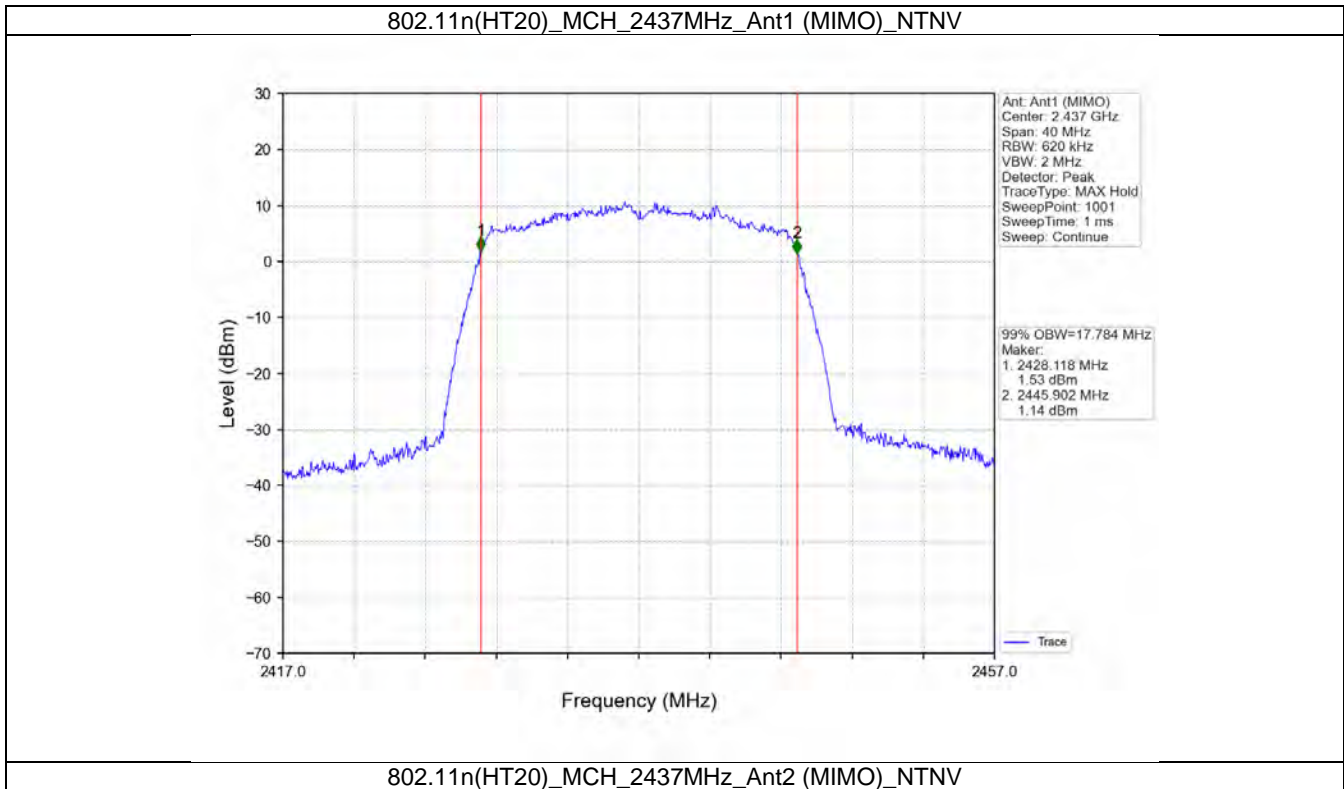


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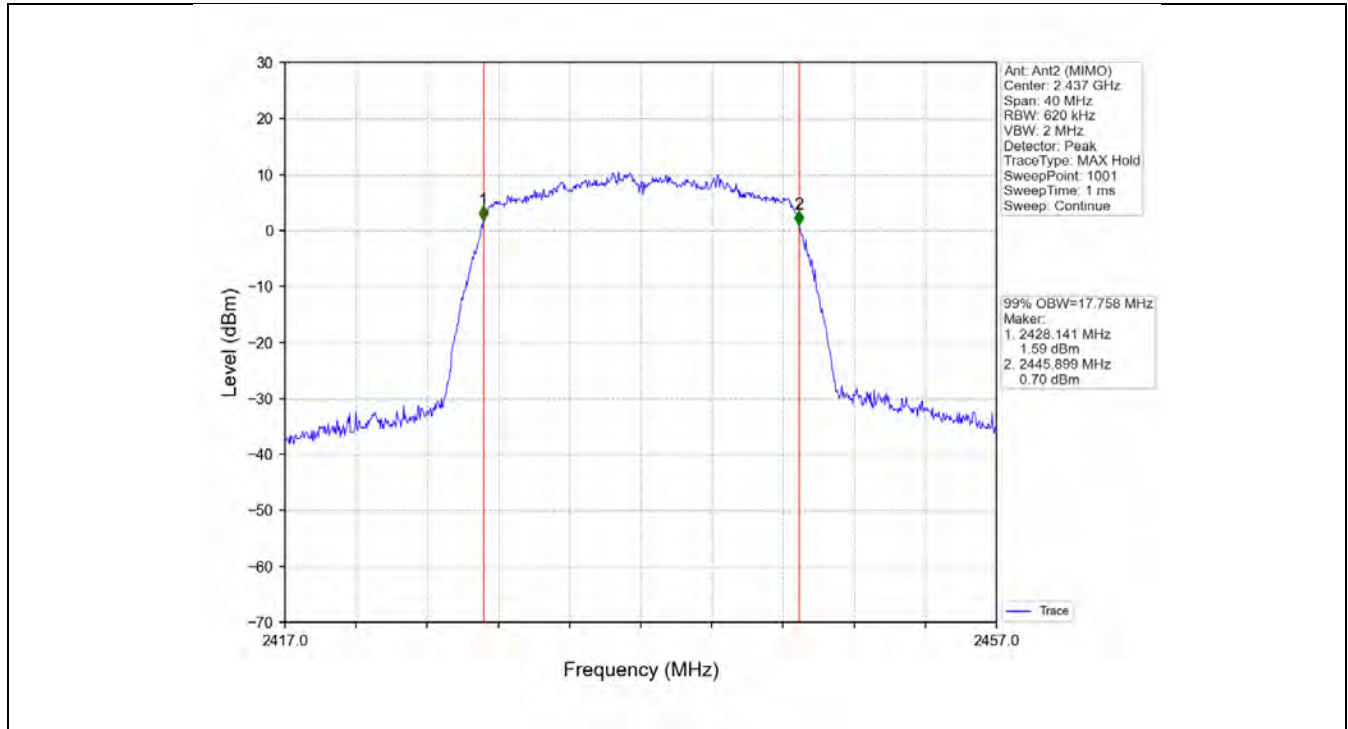


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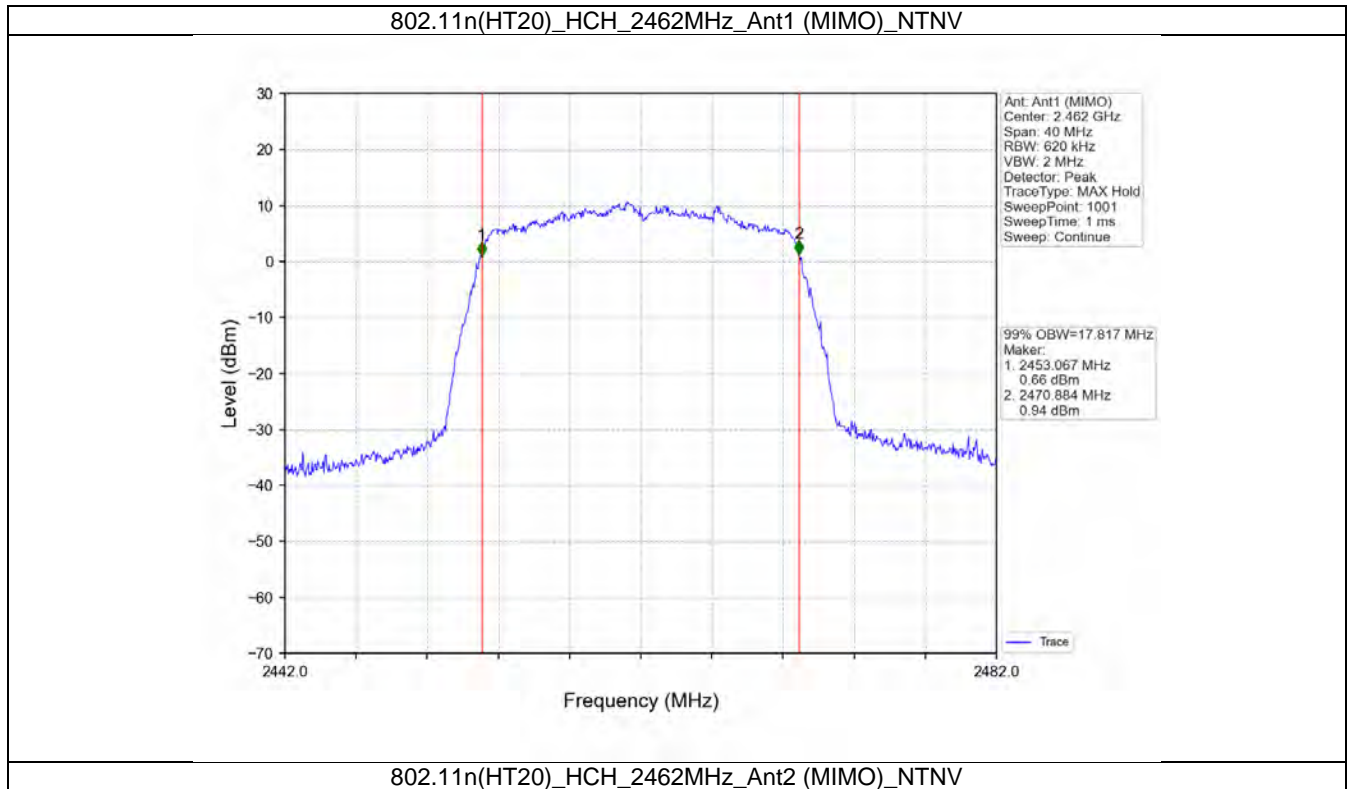
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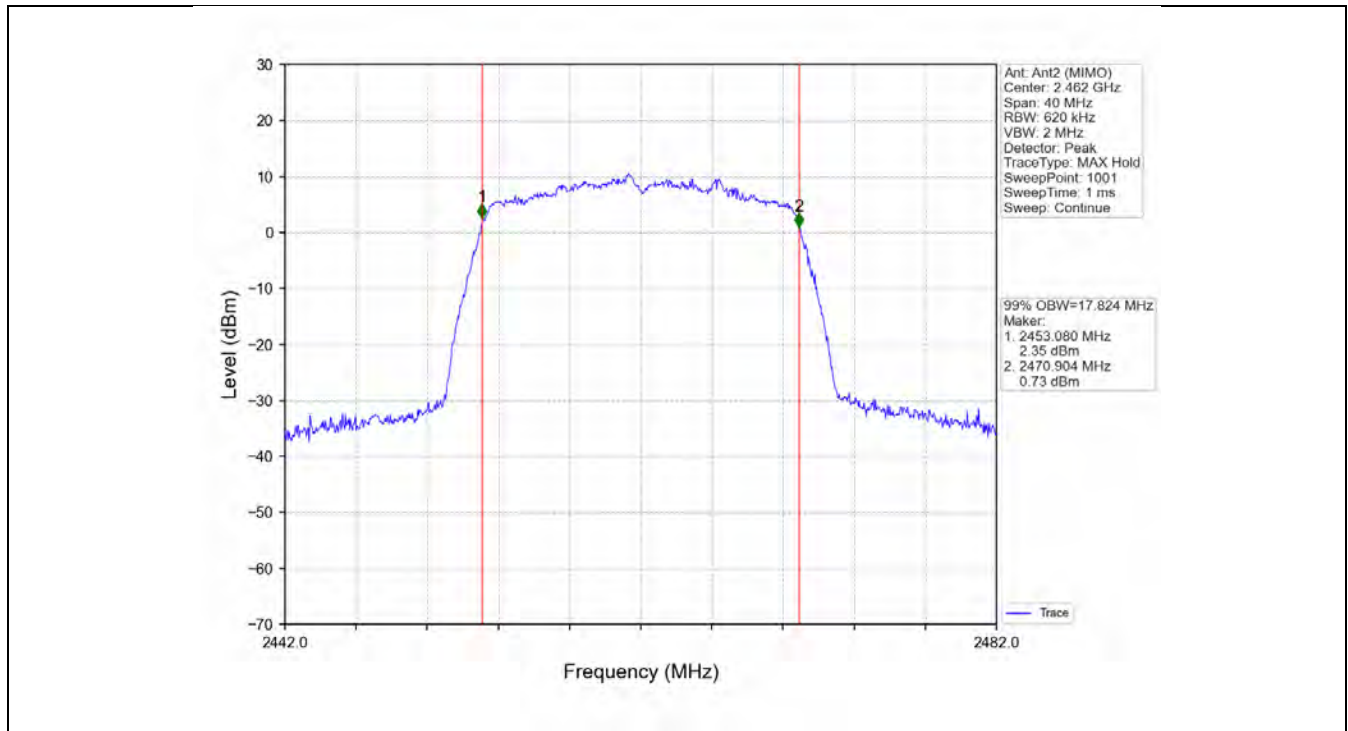


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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.055	>=0.5	Pass
			2	9.073	>=0.5	Pass
		2437	1	9.070	>=0.5	Pass
			2	9.085	>=0.5	Pass
		2462	1	9.502	>=0.5	Pass
			2	9.072	>=0.5	Pass
802.11g	SISO	2412	1	15.155	>=0.5	Pass
			2	15.418	>=0.5	Pass
		2437	1	15.148	>=0.5	Pass
			2	15.144	>=0.5	Pass
		2462	1	15.153	>=0.5	Pass
			2	15.148	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.440	>=0.5	Pass
			2	15.428	>=0.5	Pass
		2437	1	15.153	>=0.5	Pass
			2	15.137	>=0.5	Pass
		2462	1	15.156	>=0.5	Pass
			2	15.152	>=0.5	Pass

2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV

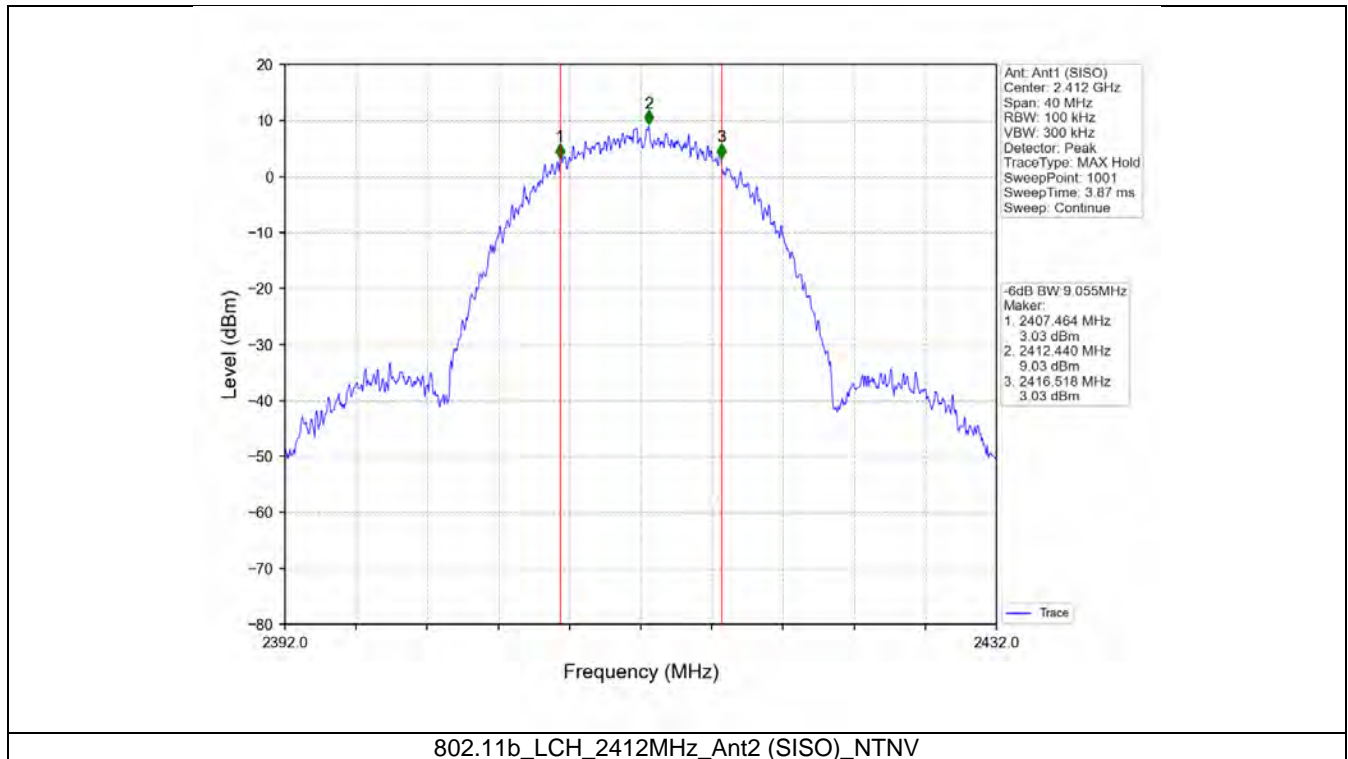


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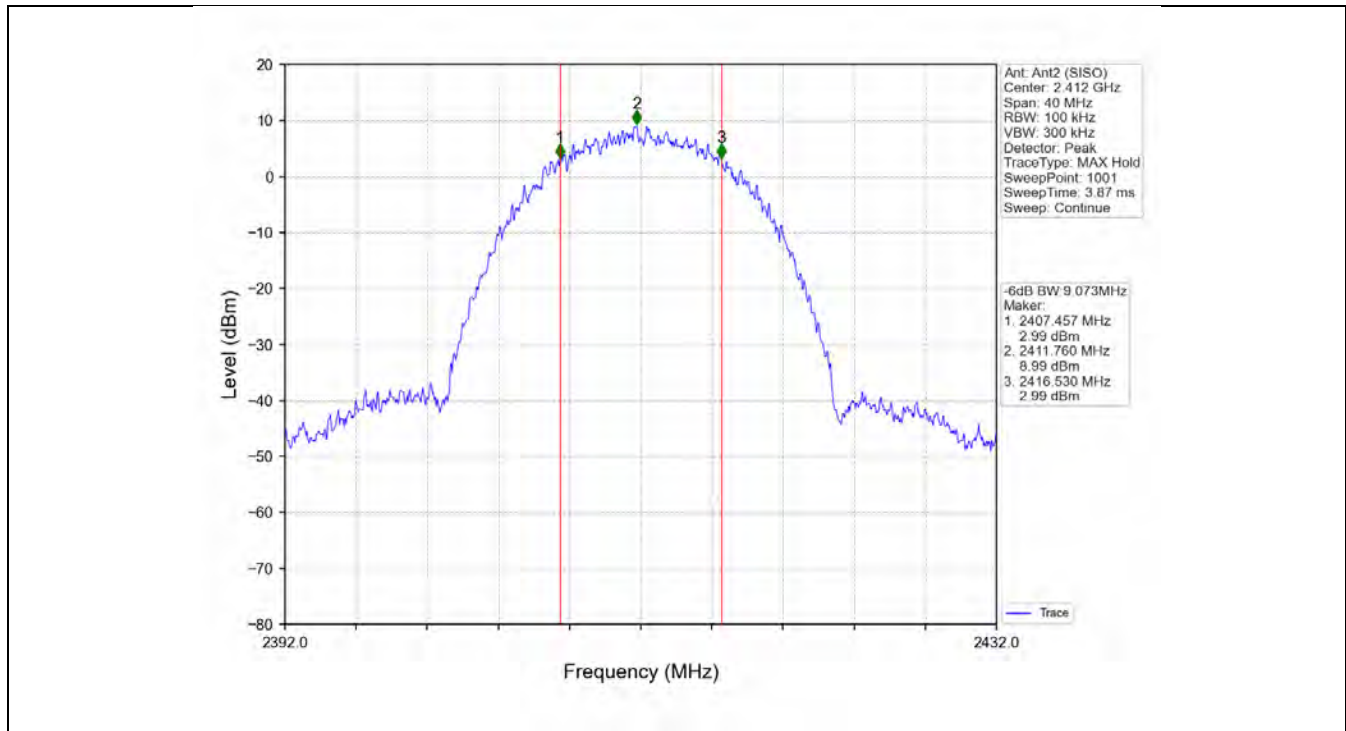
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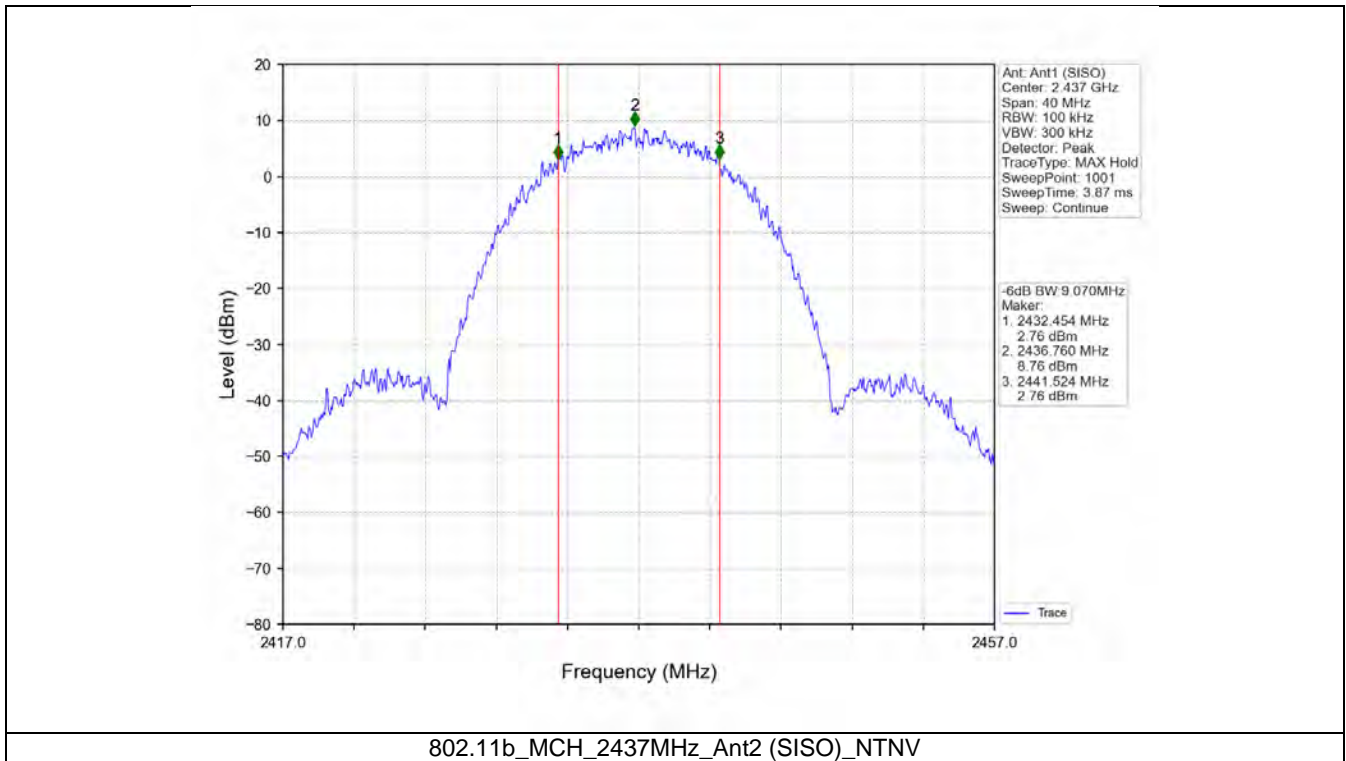


802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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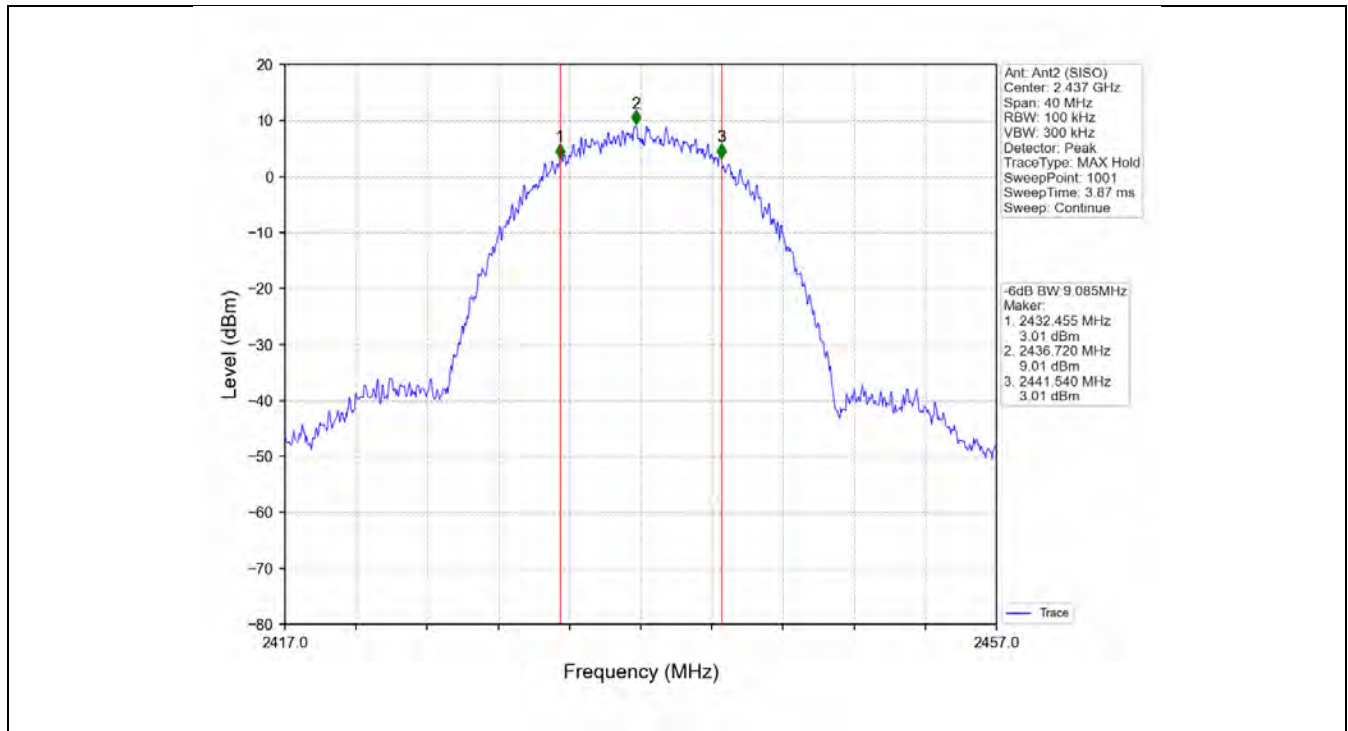
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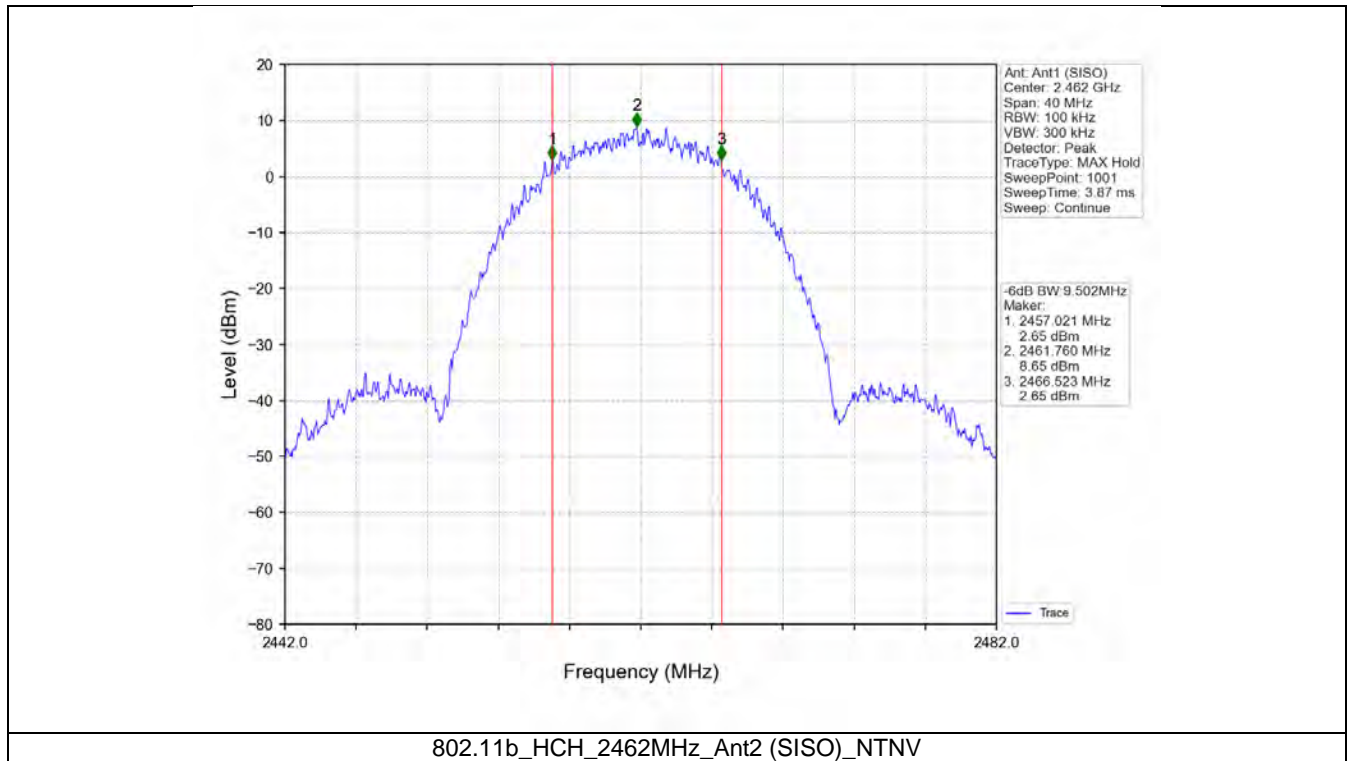
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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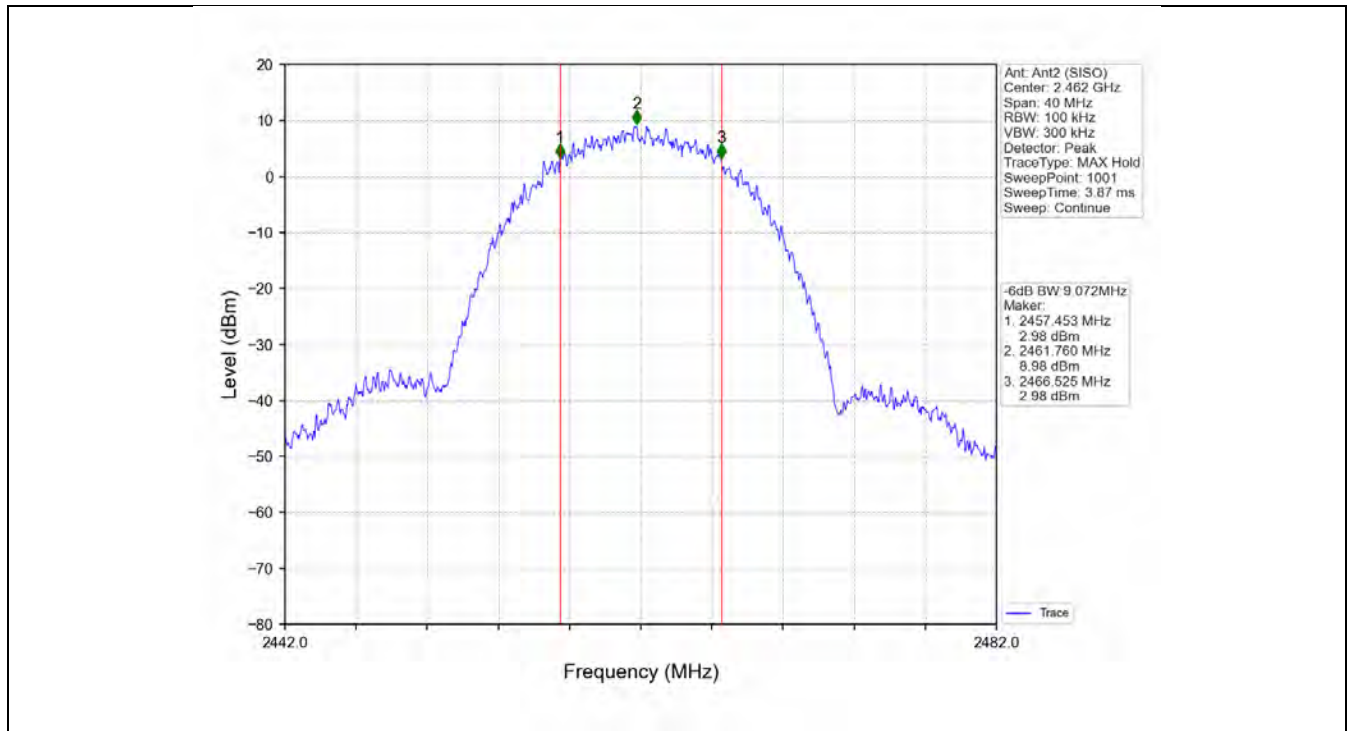
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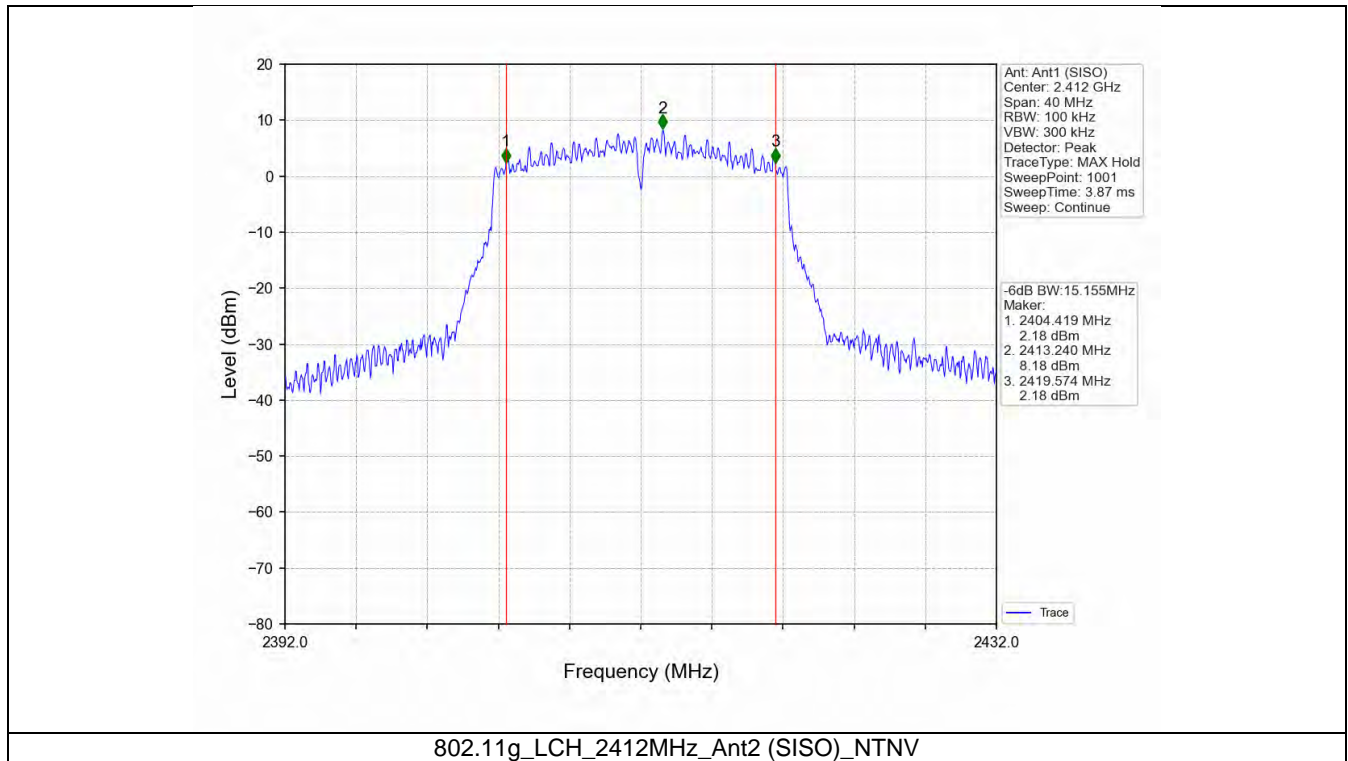


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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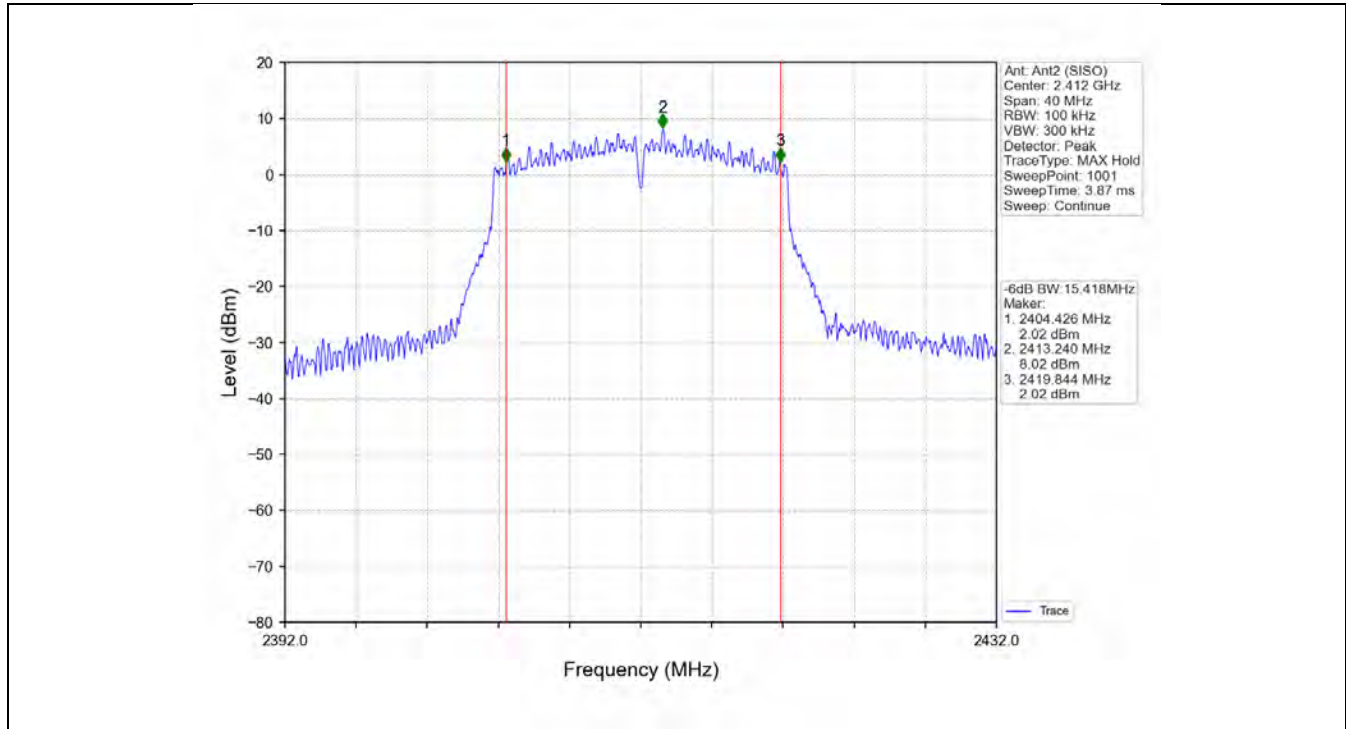


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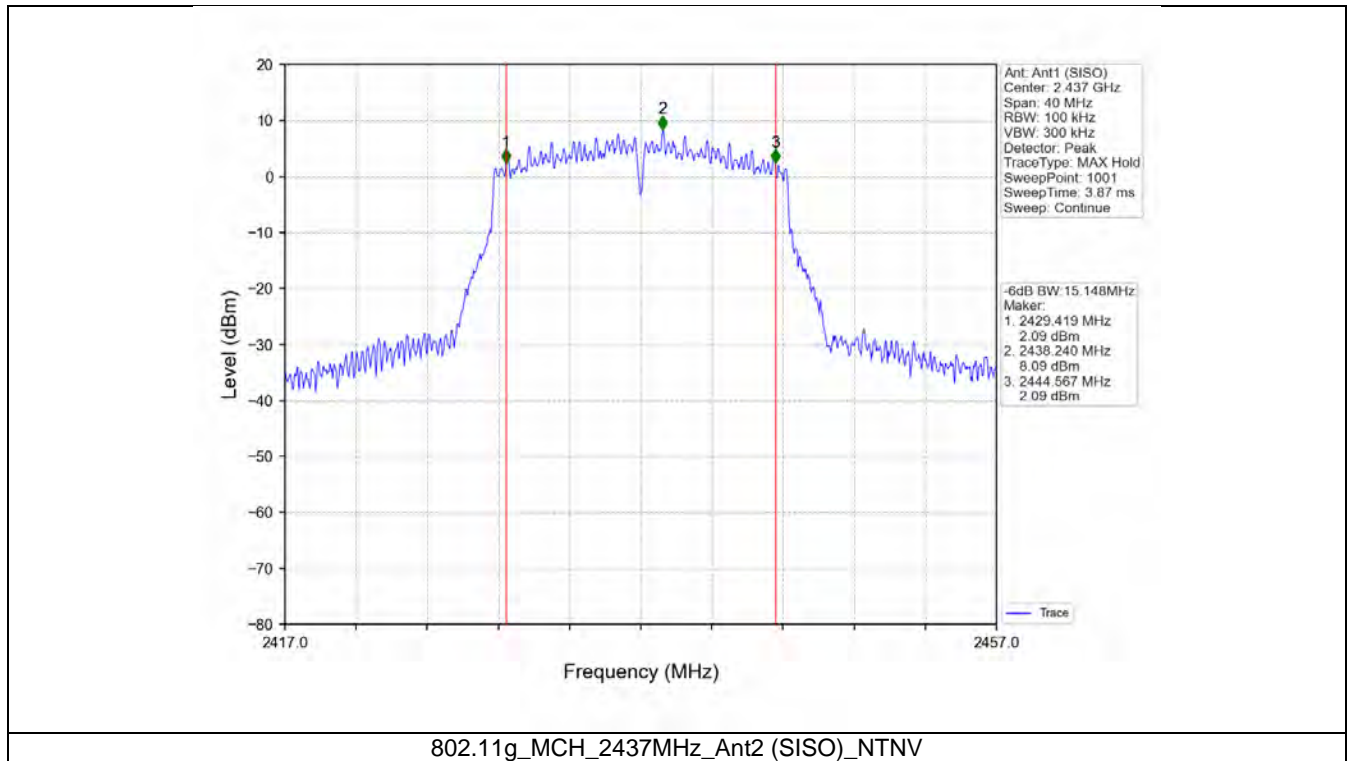


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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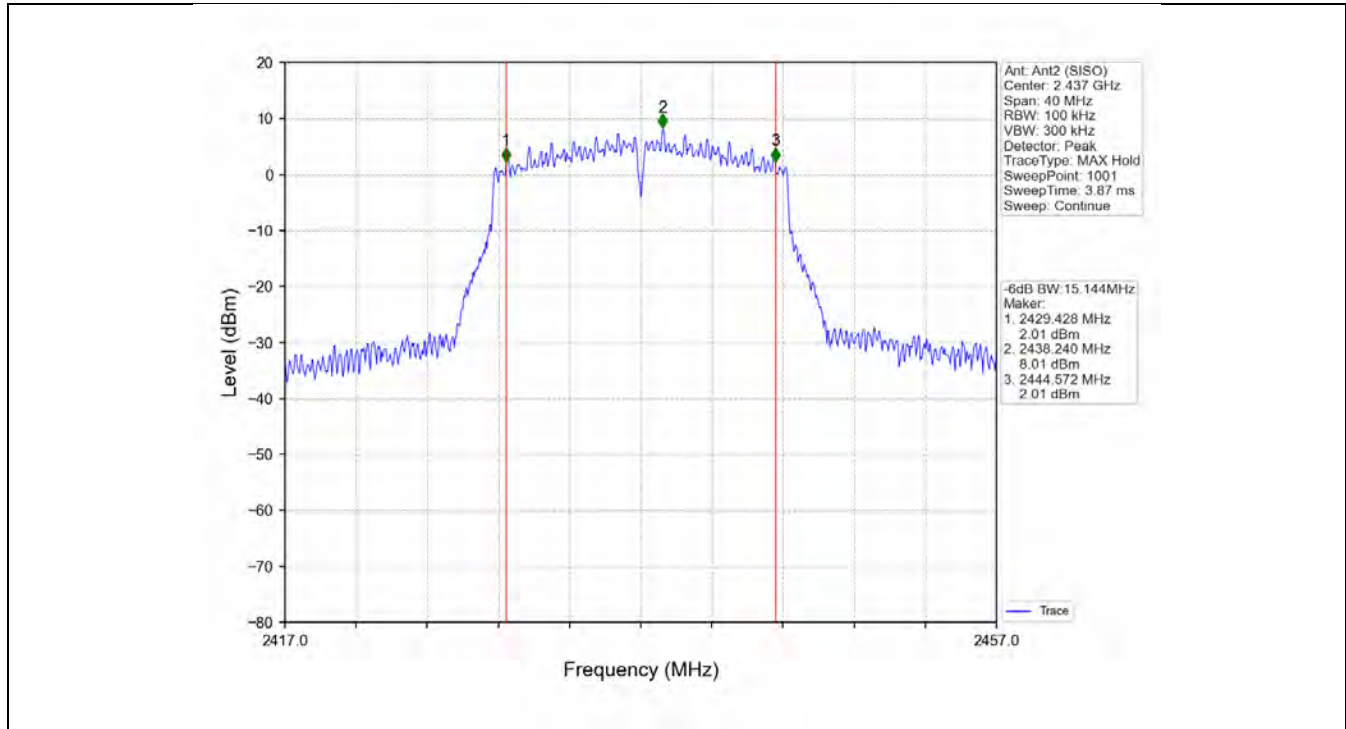


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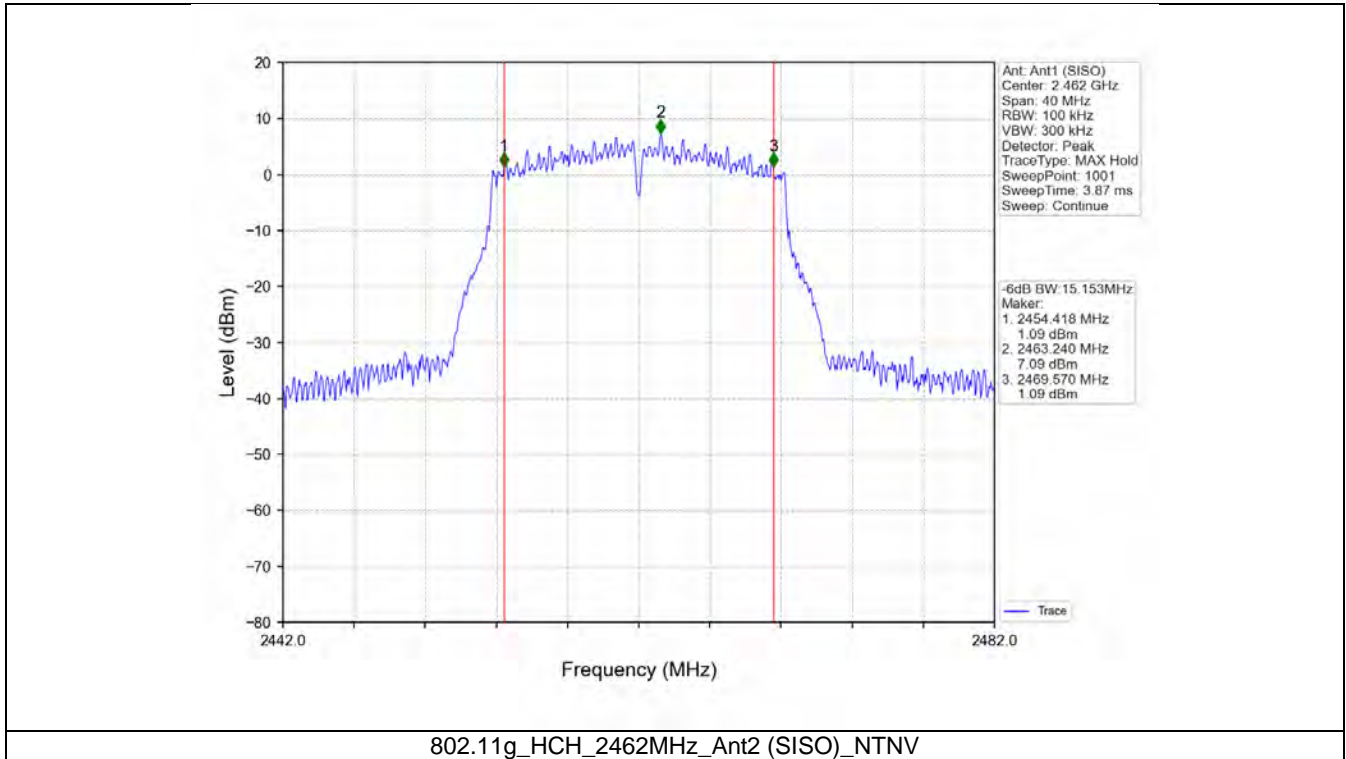


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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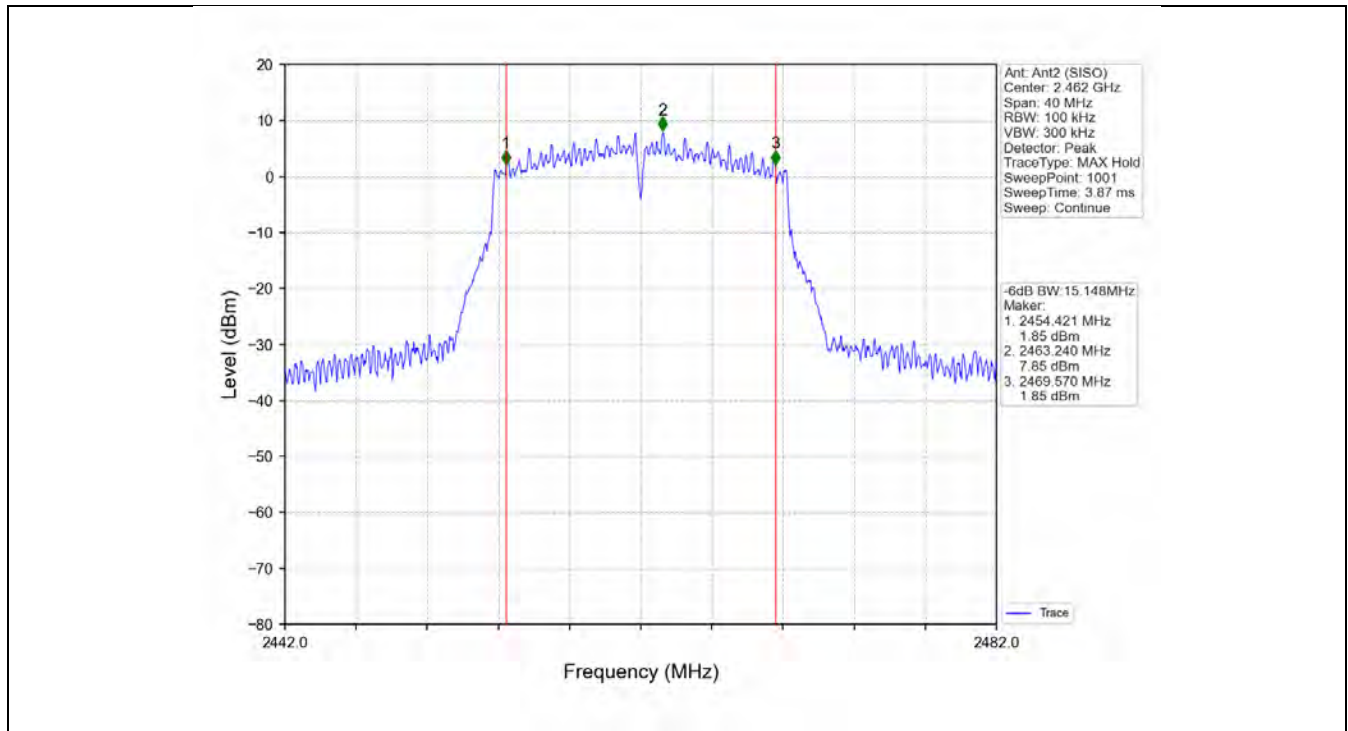
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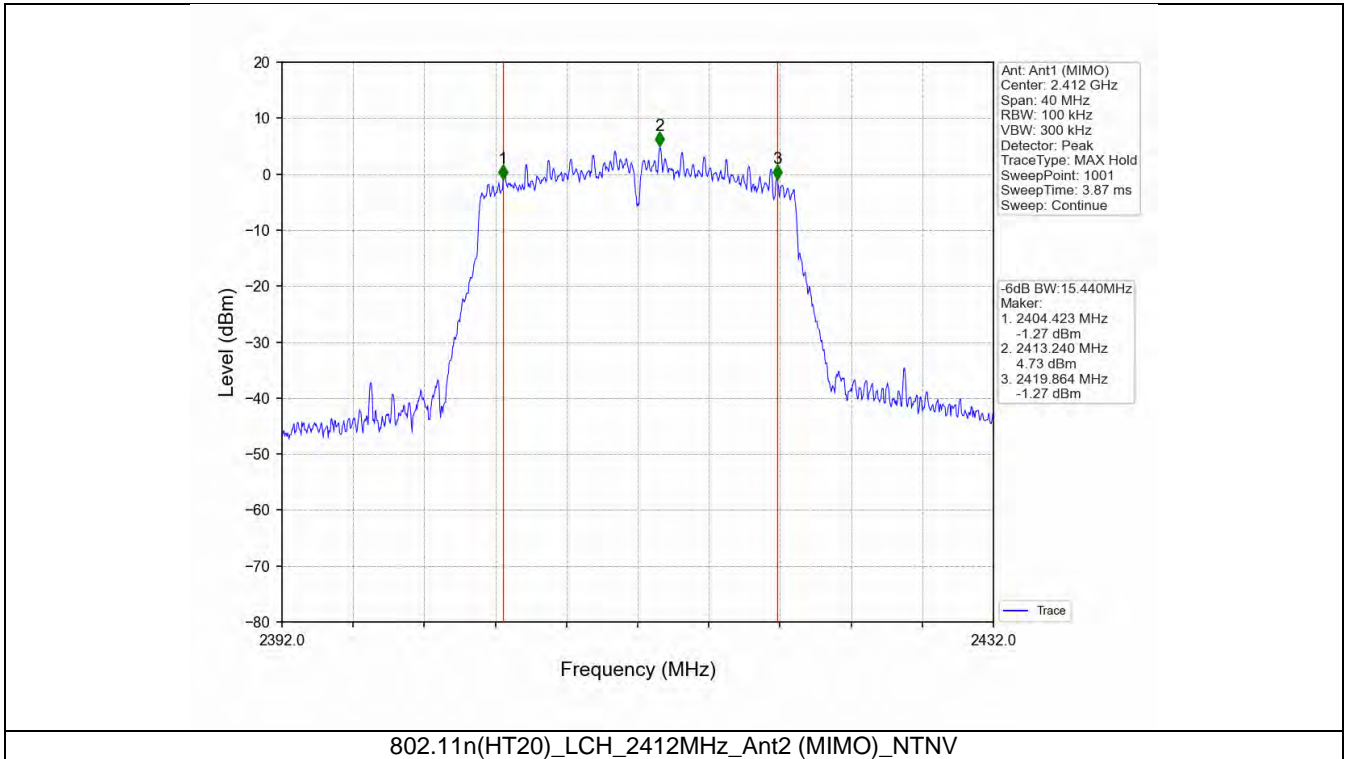


802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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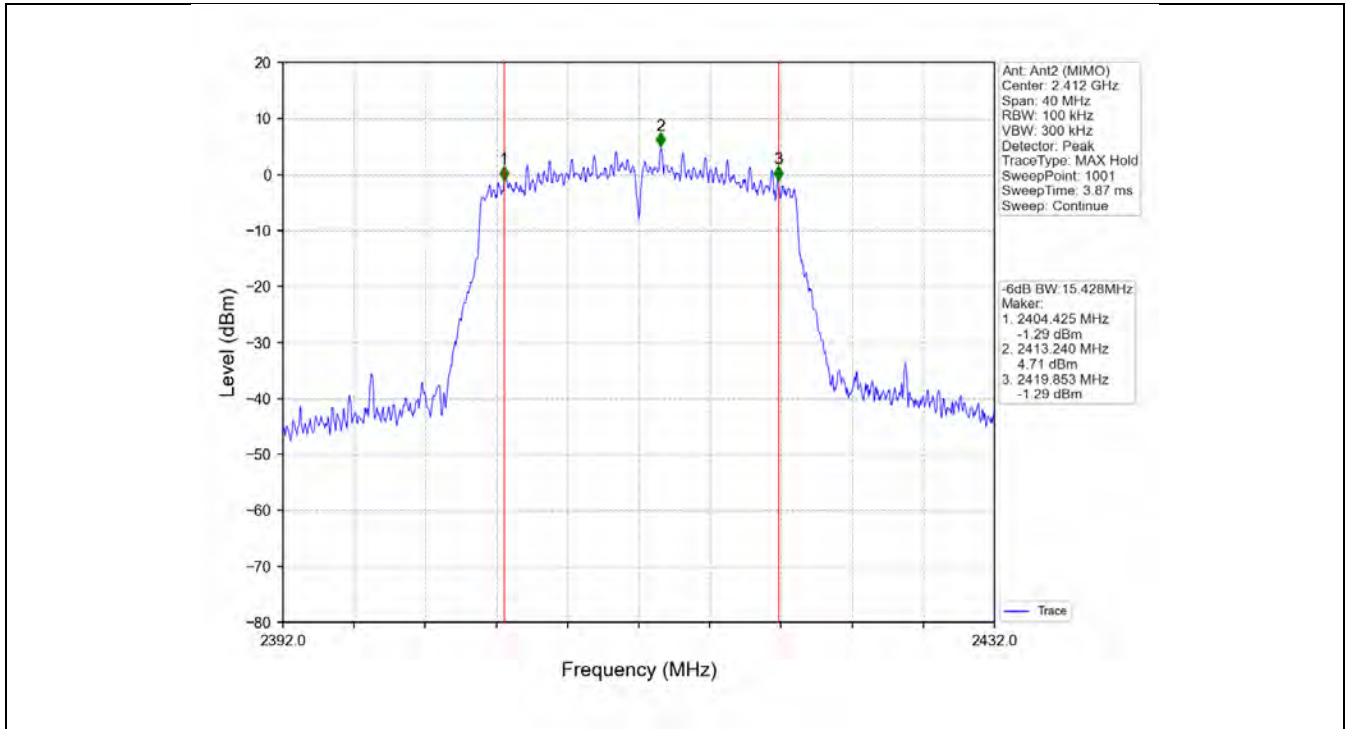


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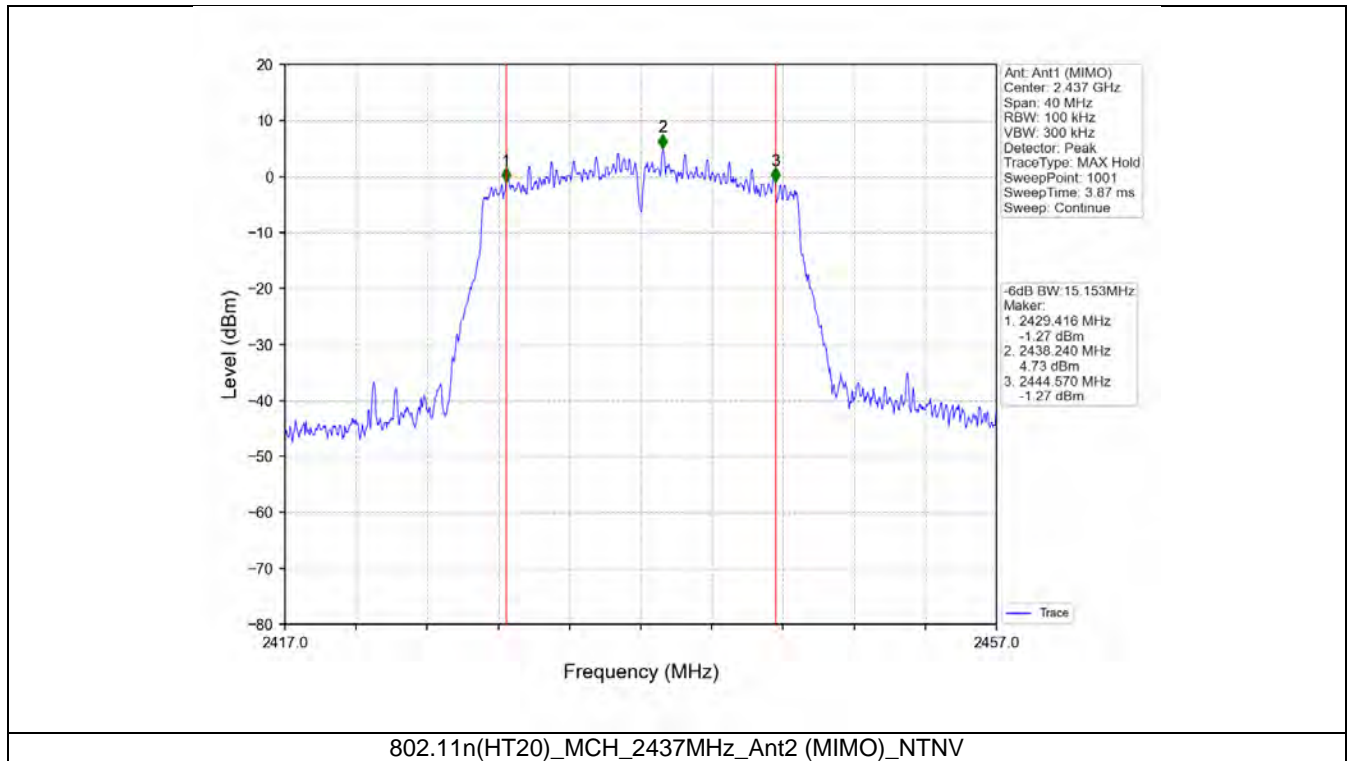


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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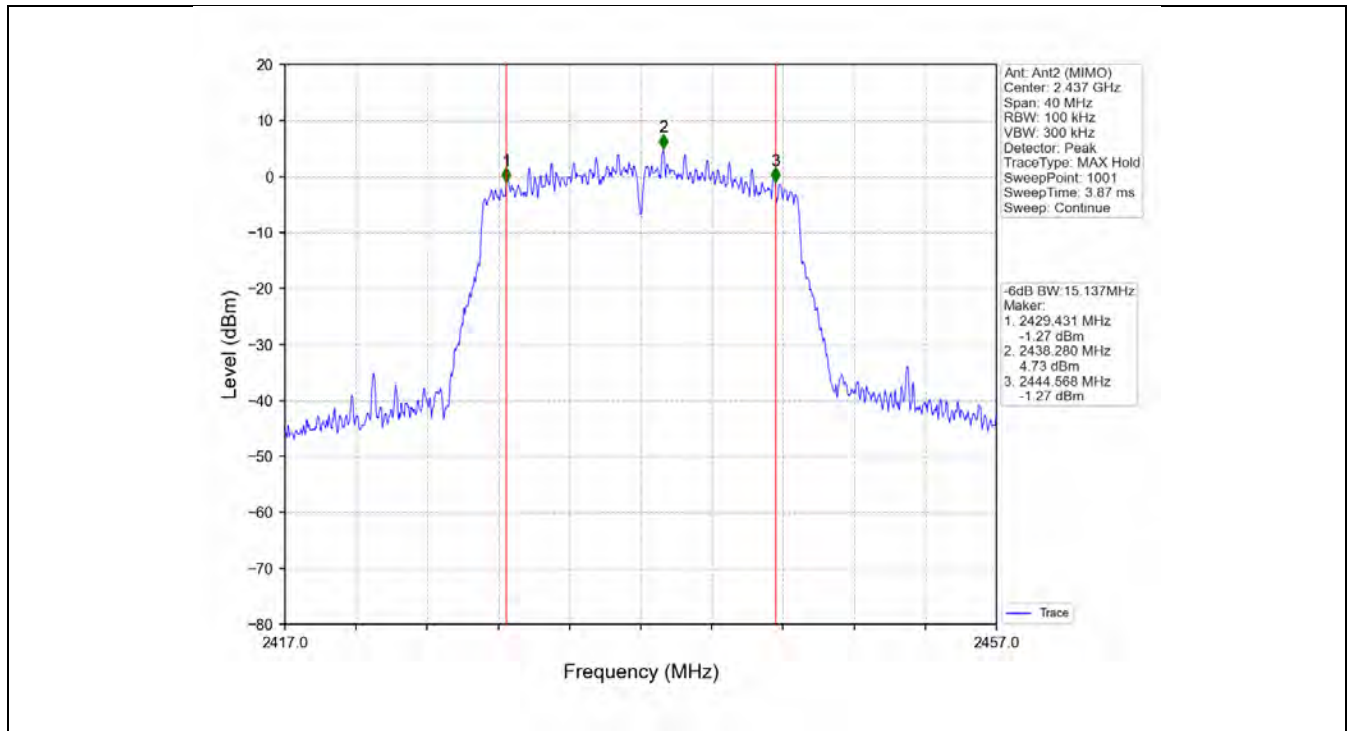
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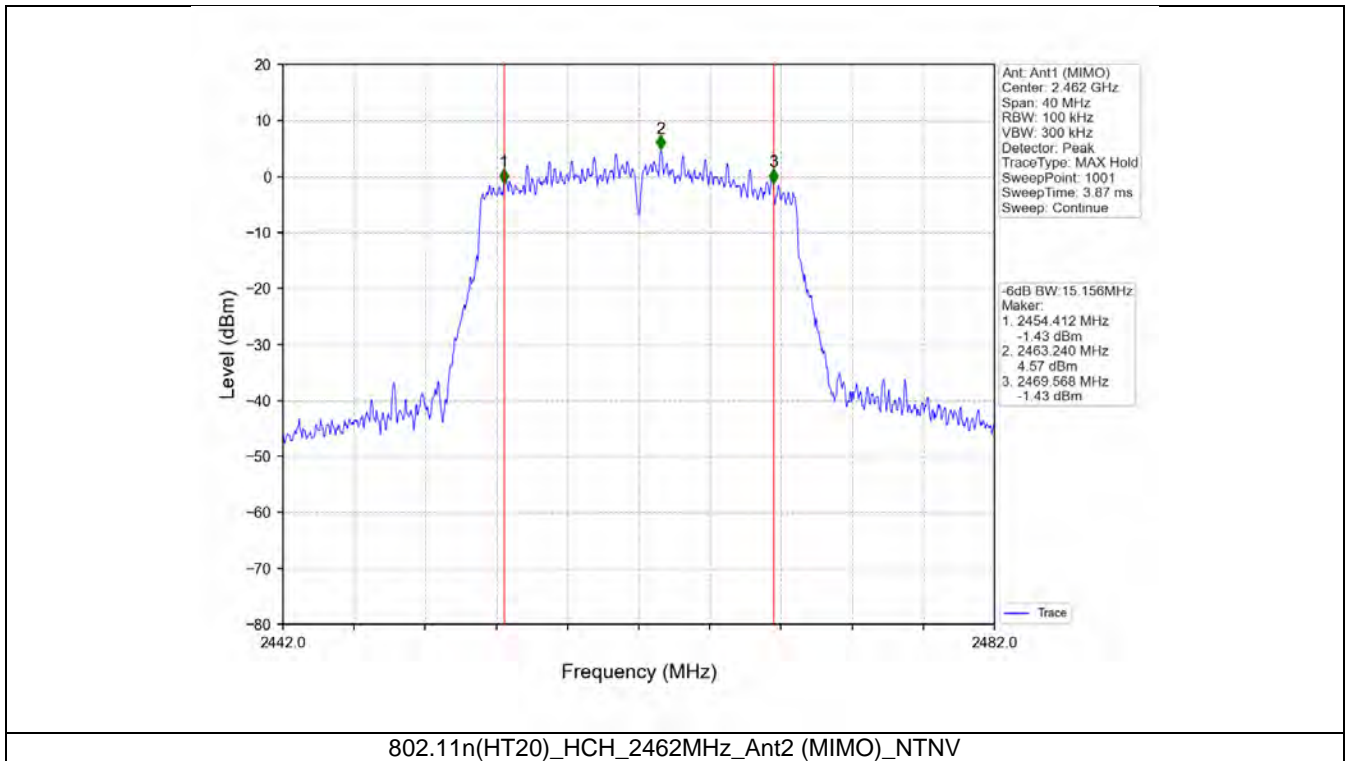
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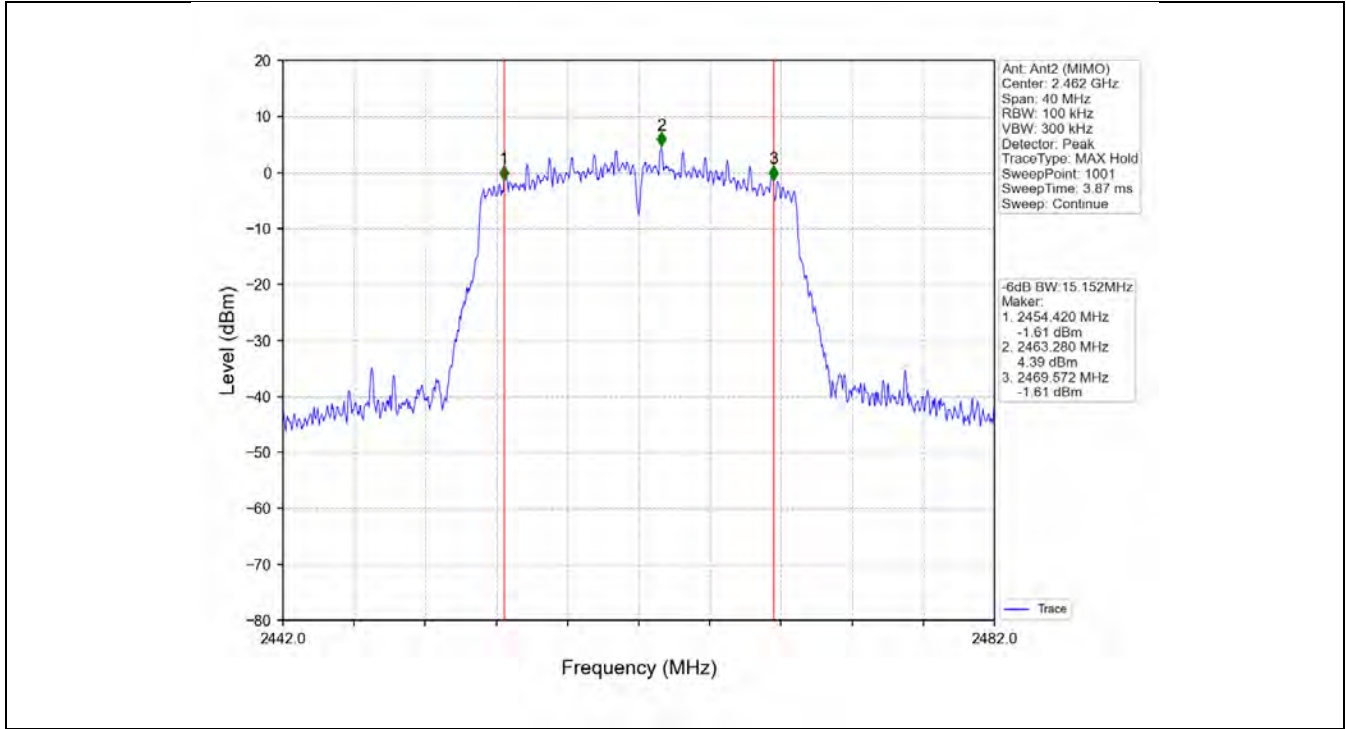
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	17.16	17.45	/	<=30	Pass
		2437	17.26	17.45	/	<=30	Pass
		2462	17.16	17.48	/	<=30	Pass
802.11g	SISO	2412	18.11	17.97	/	<=30	Pass
		2437	18.11	17.89	/	<=30	Pass
		2462	17.11	17.74	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.58	14.54	17.57	<=30	Pass
		2437	14.62	14.43	17.54	<=30	Pass
		2462	14.56	14.30	17.44	<=30	Pass

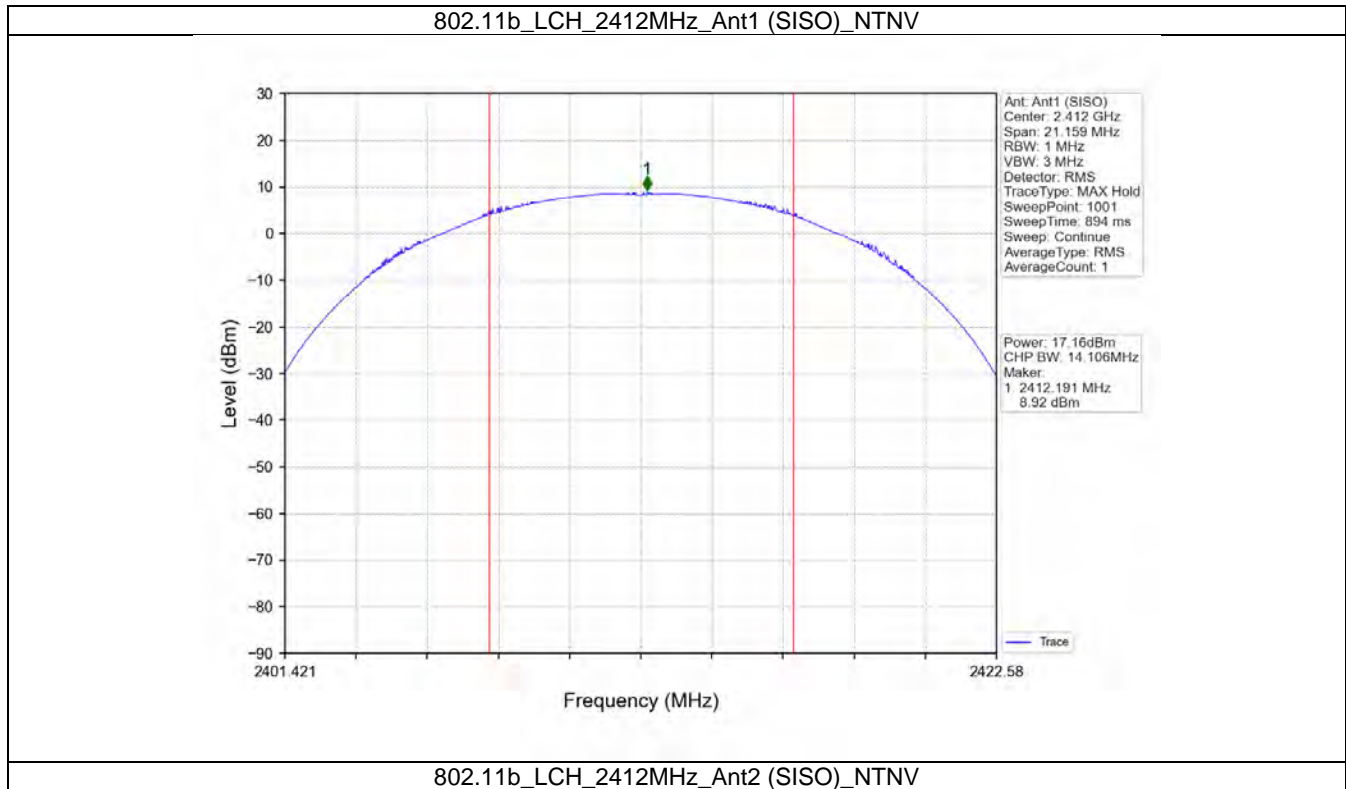
Note1: Antenna Gain: Ant1: 2.40dBi; Ant2: 2.40dBi;
 Note2: Directional Gain: 5.41dBi



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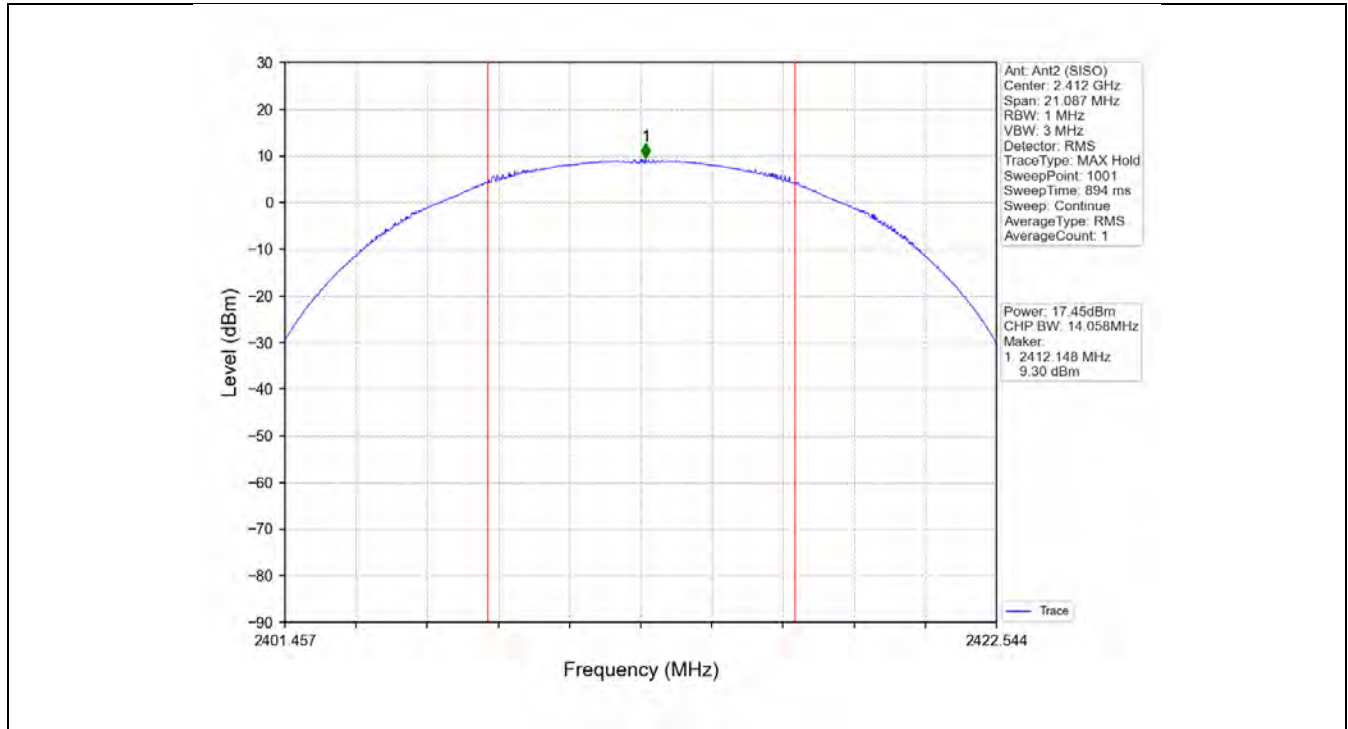
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3.1.2 Test Graph



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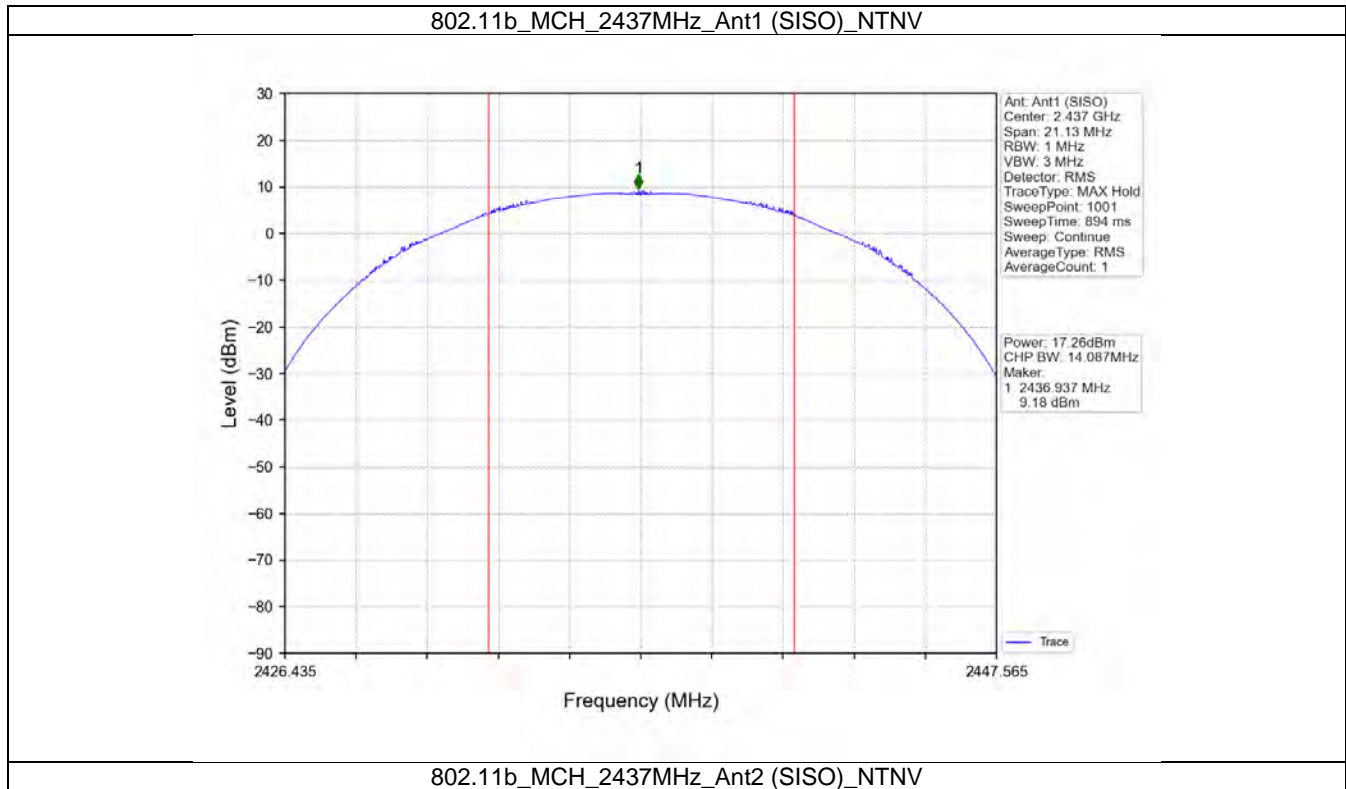
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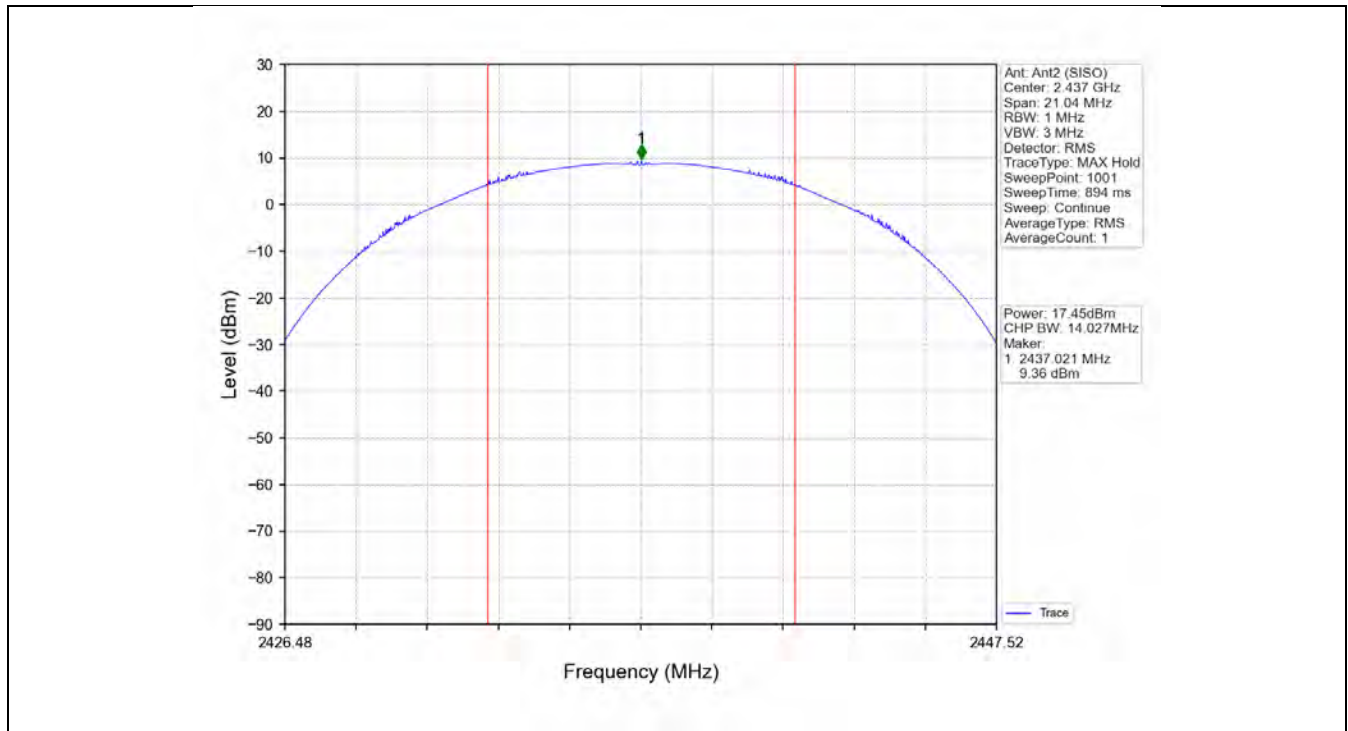
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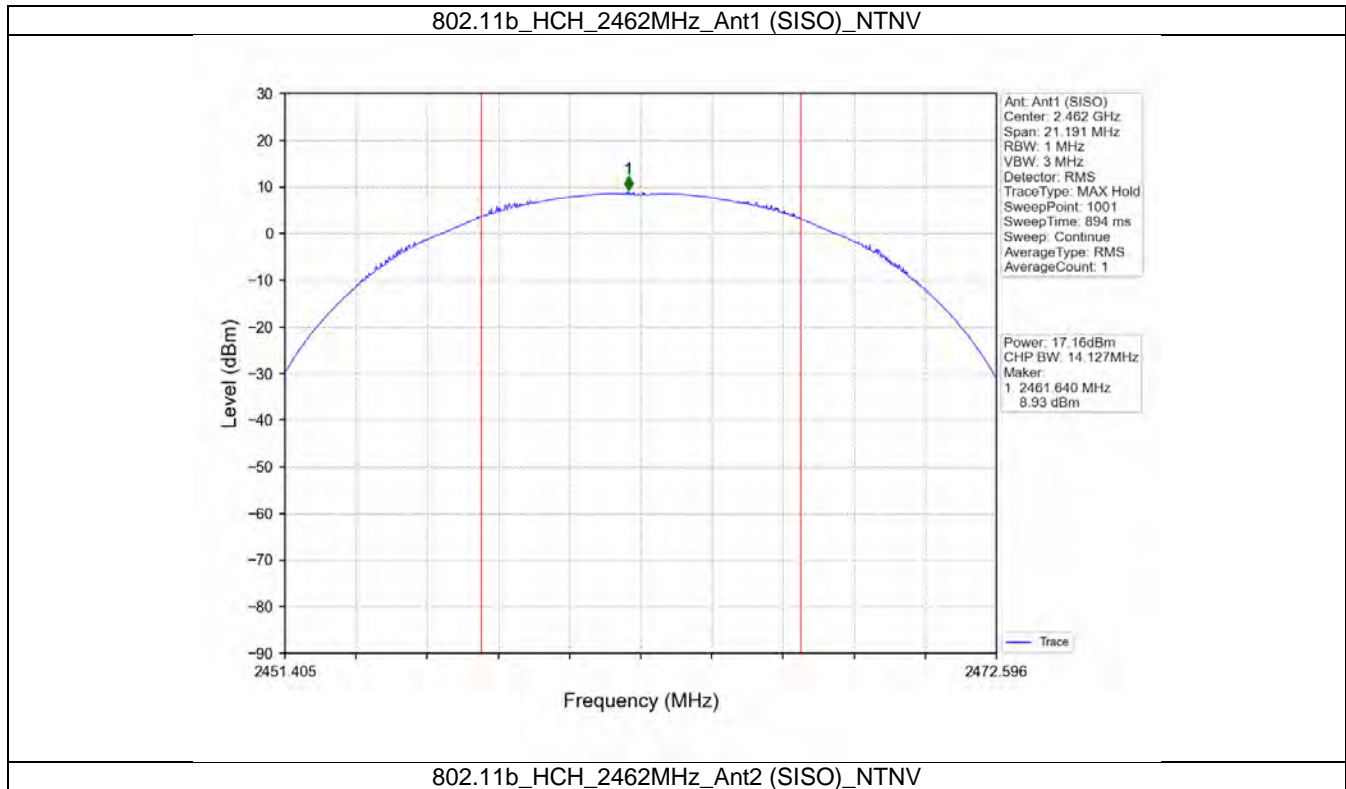


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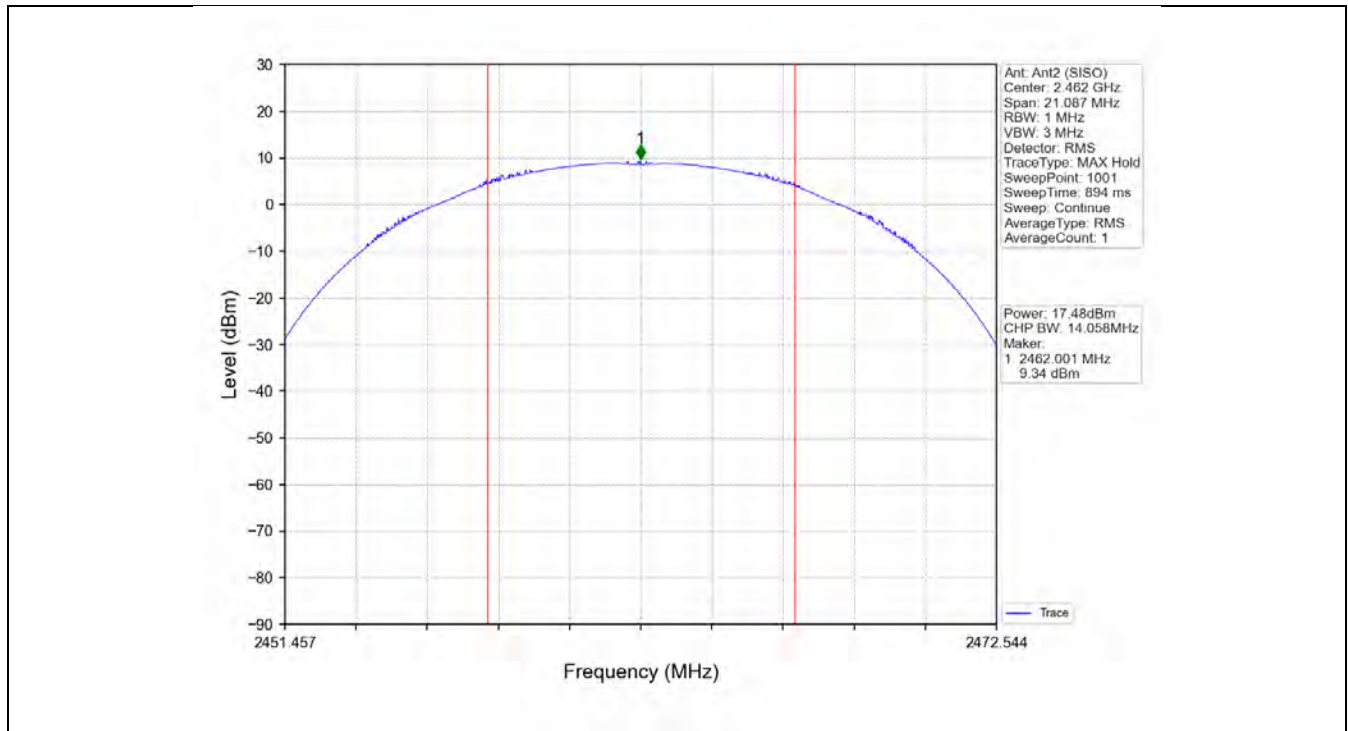
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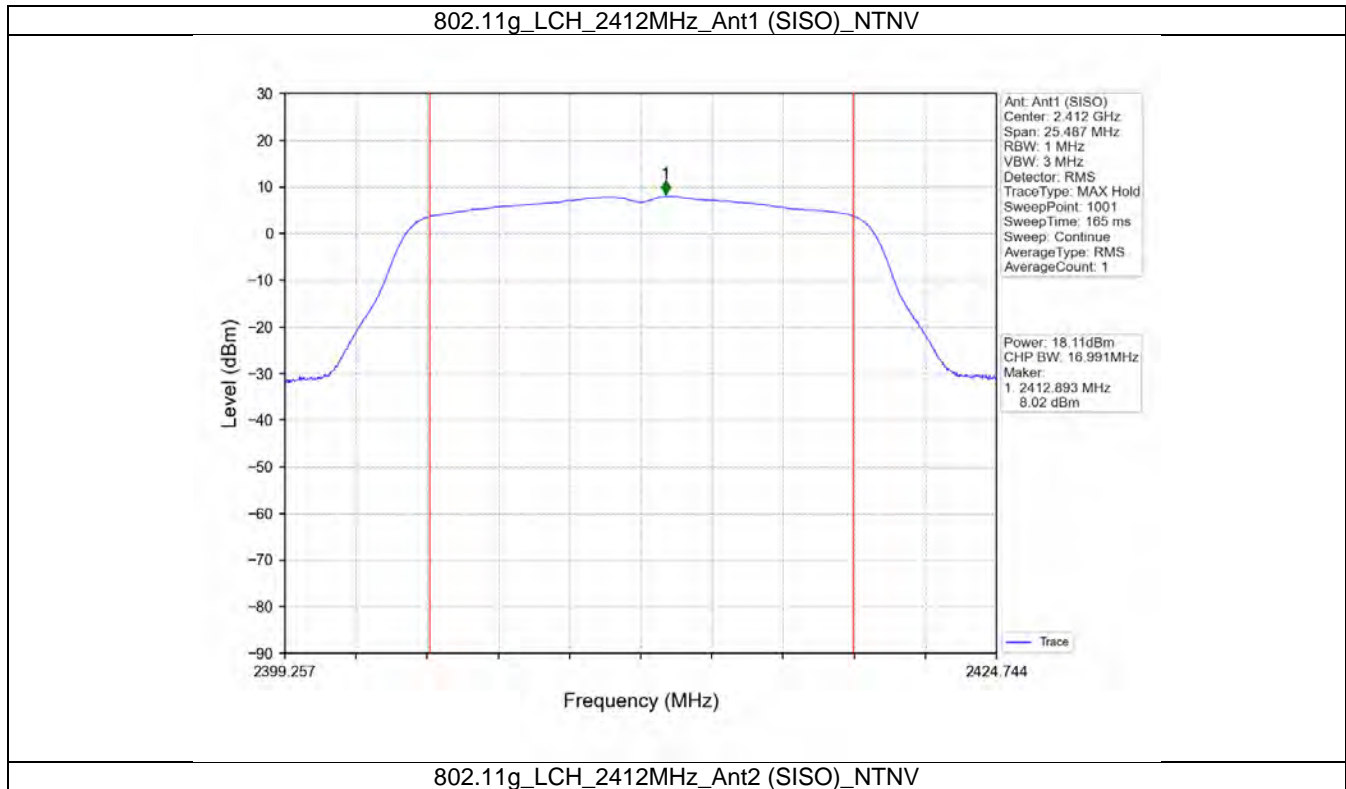


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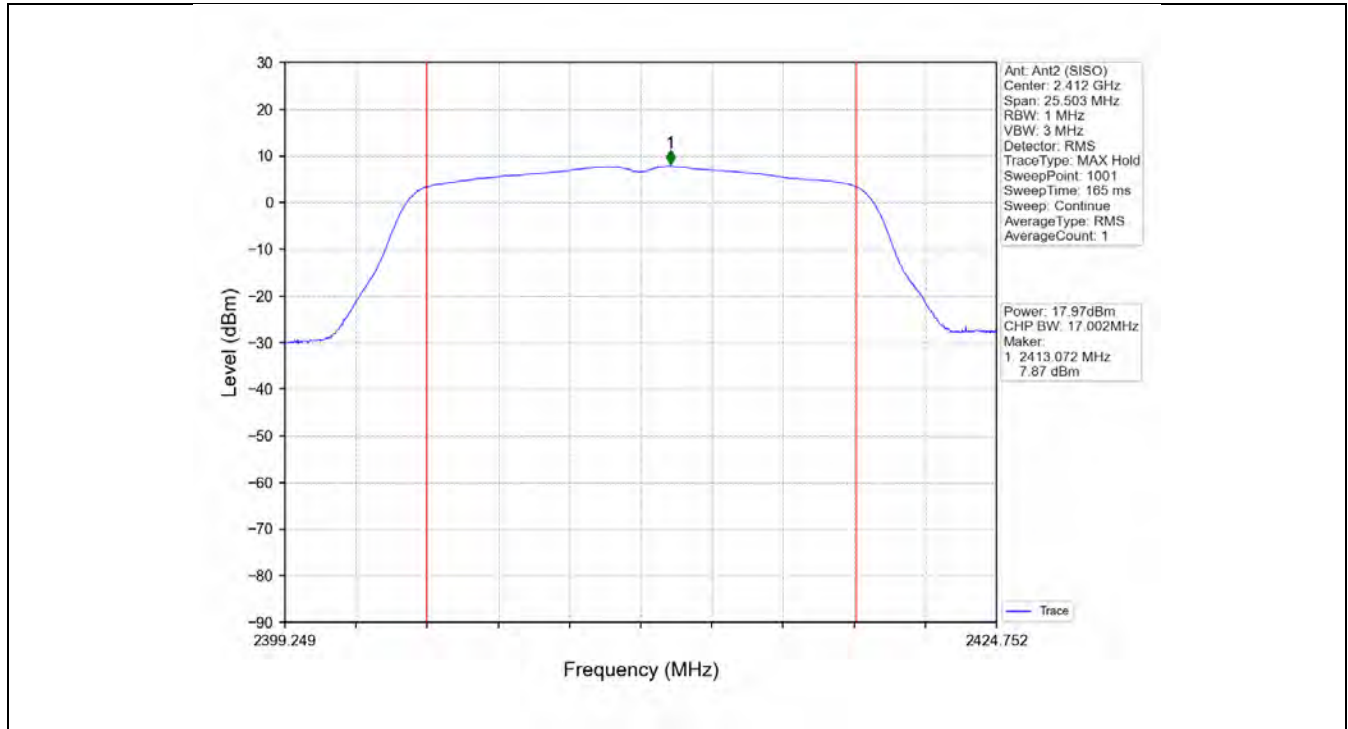
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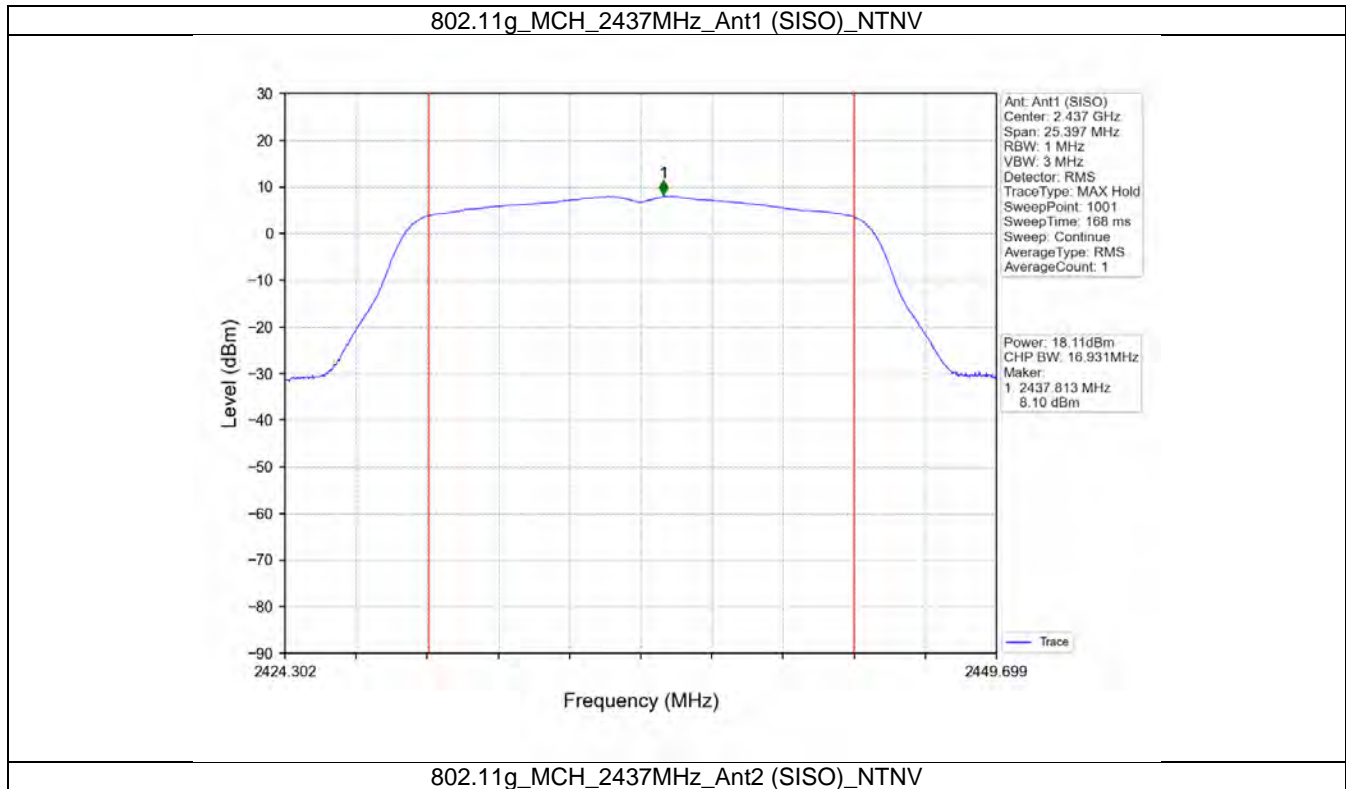
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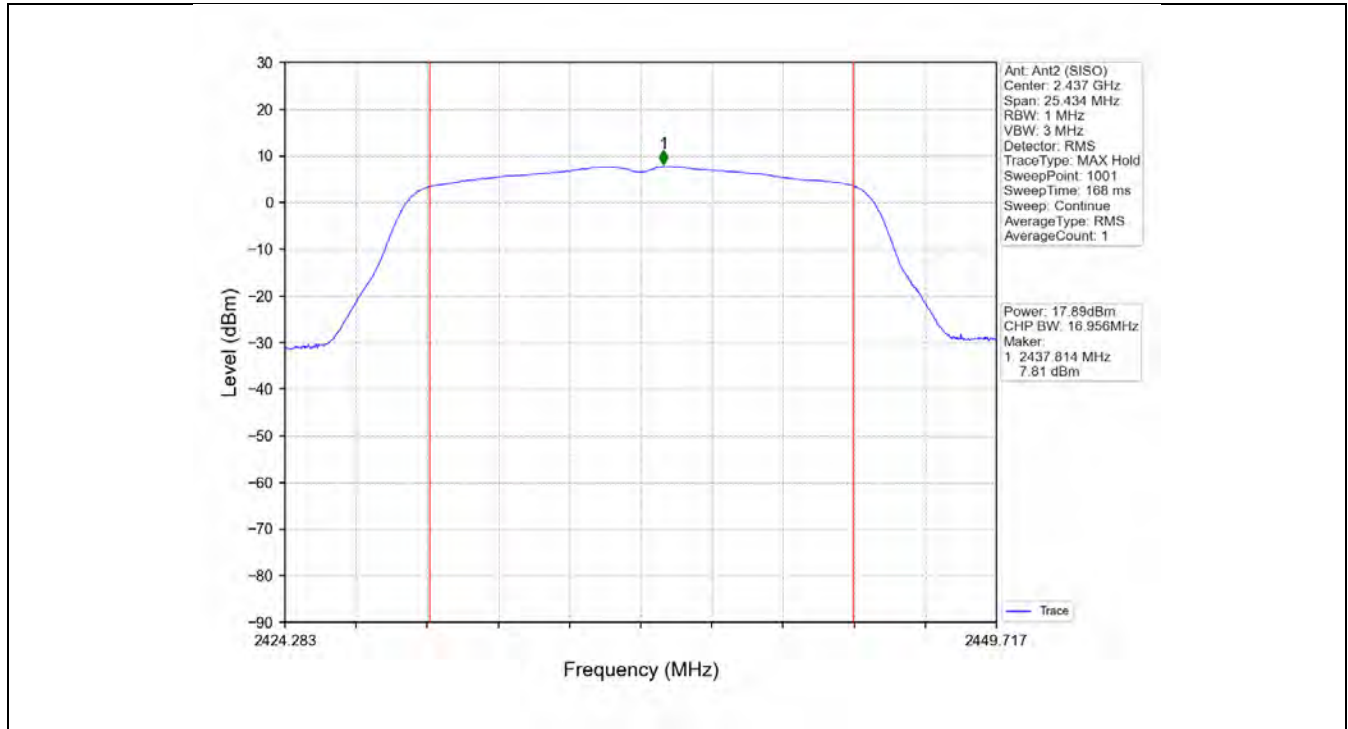


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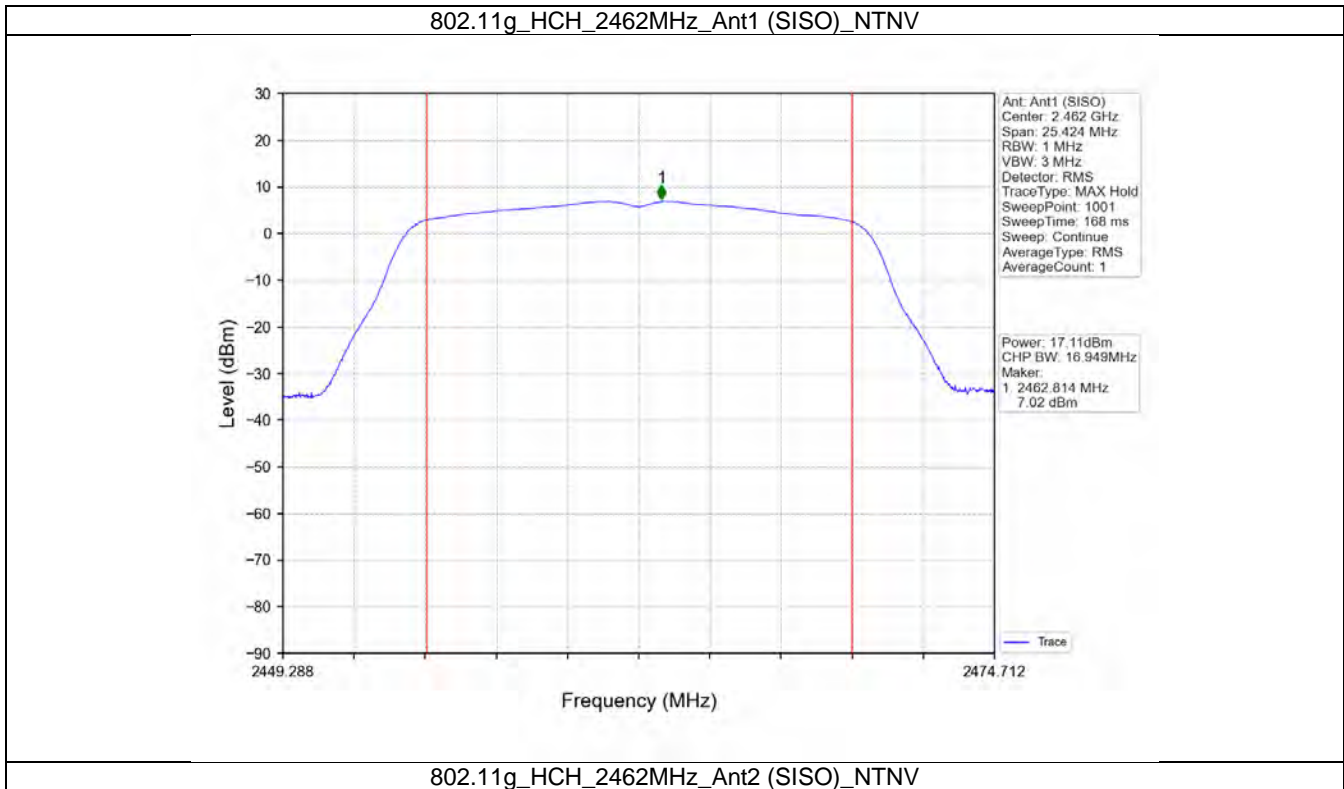
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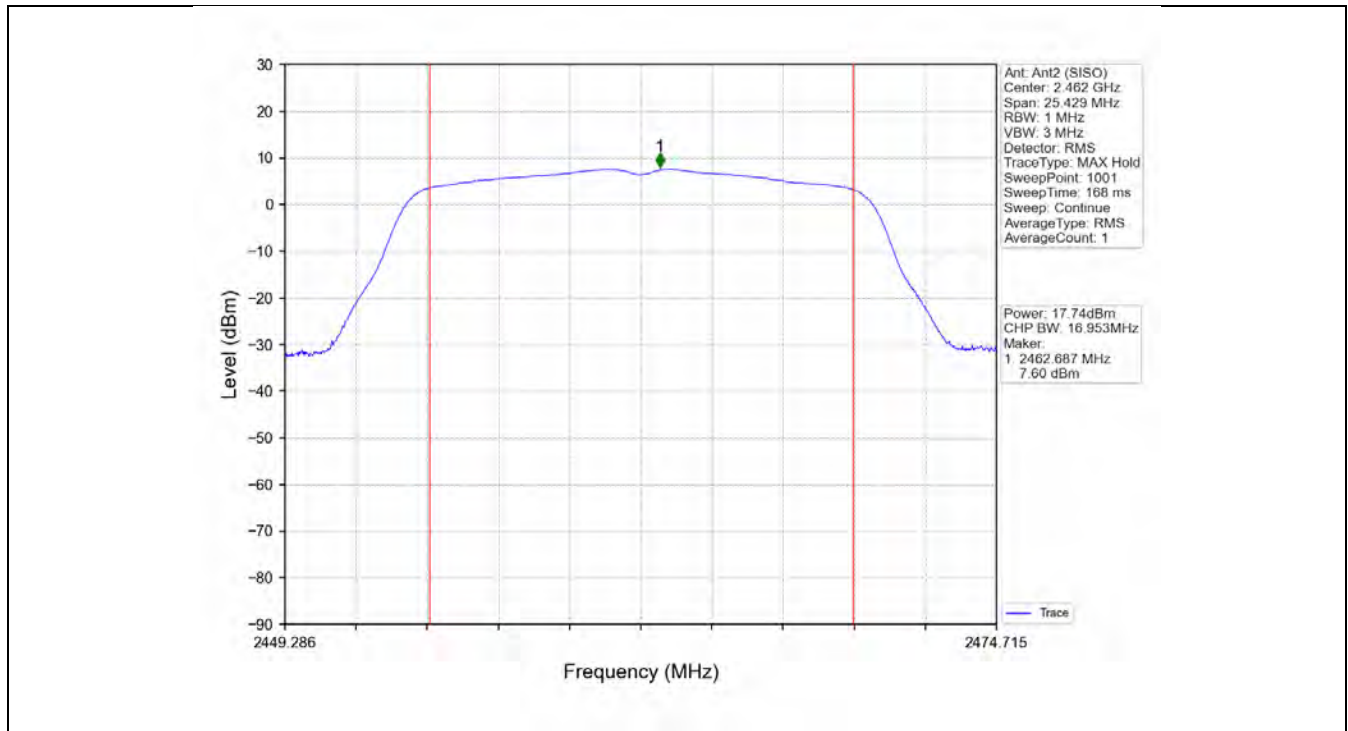


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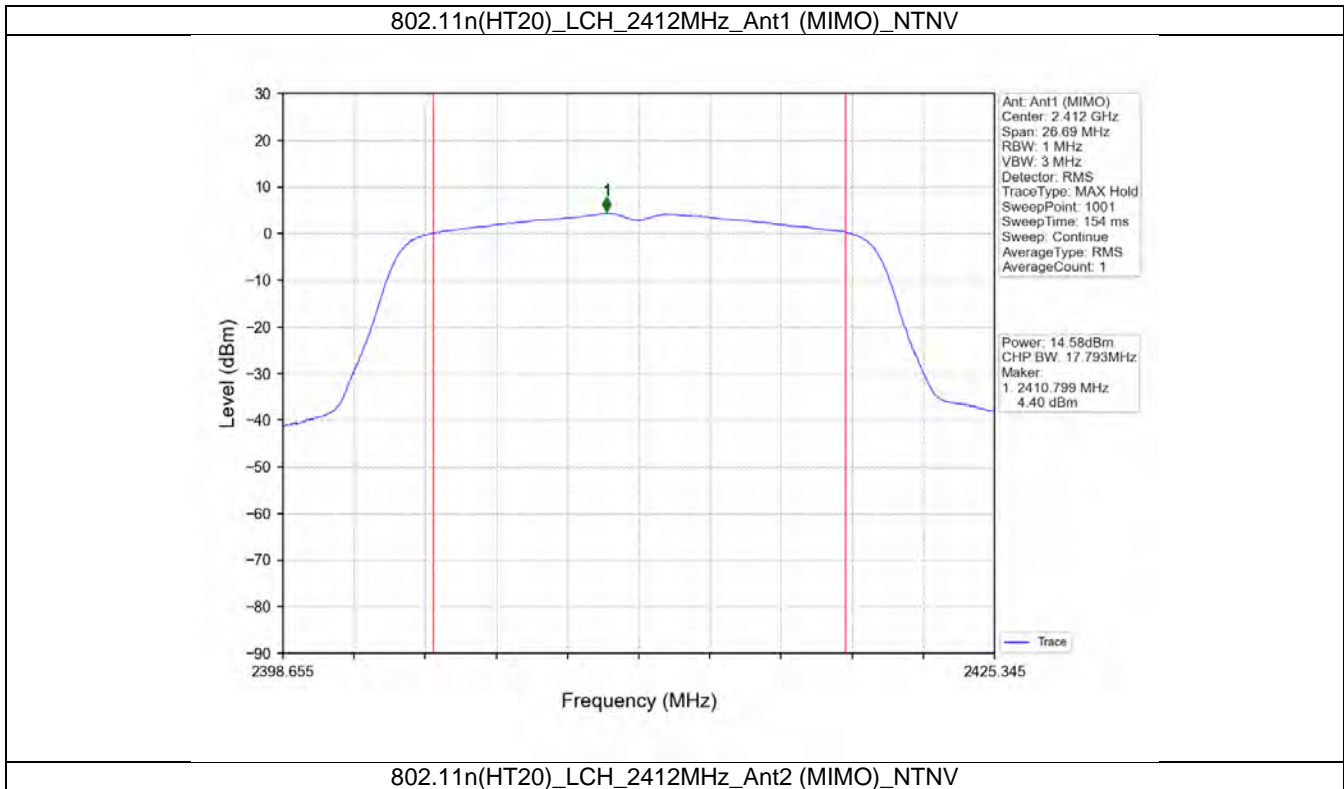


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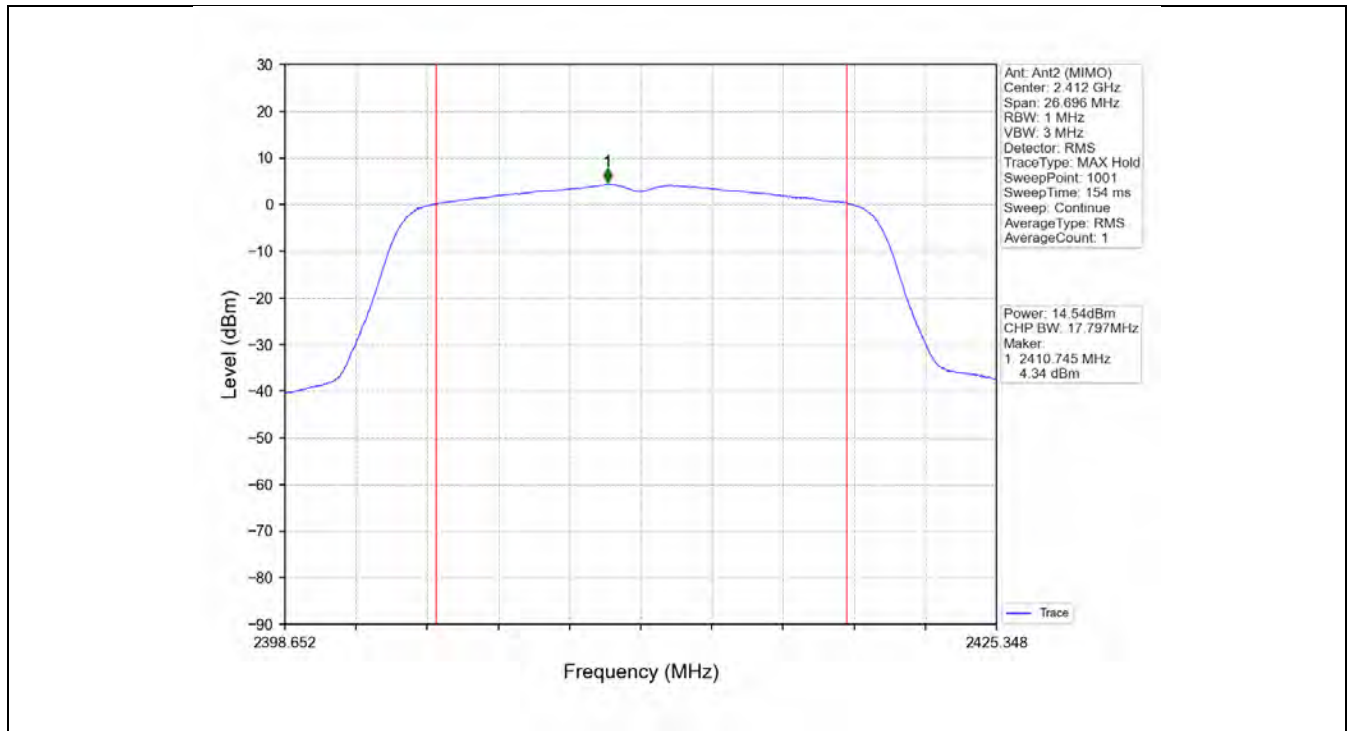


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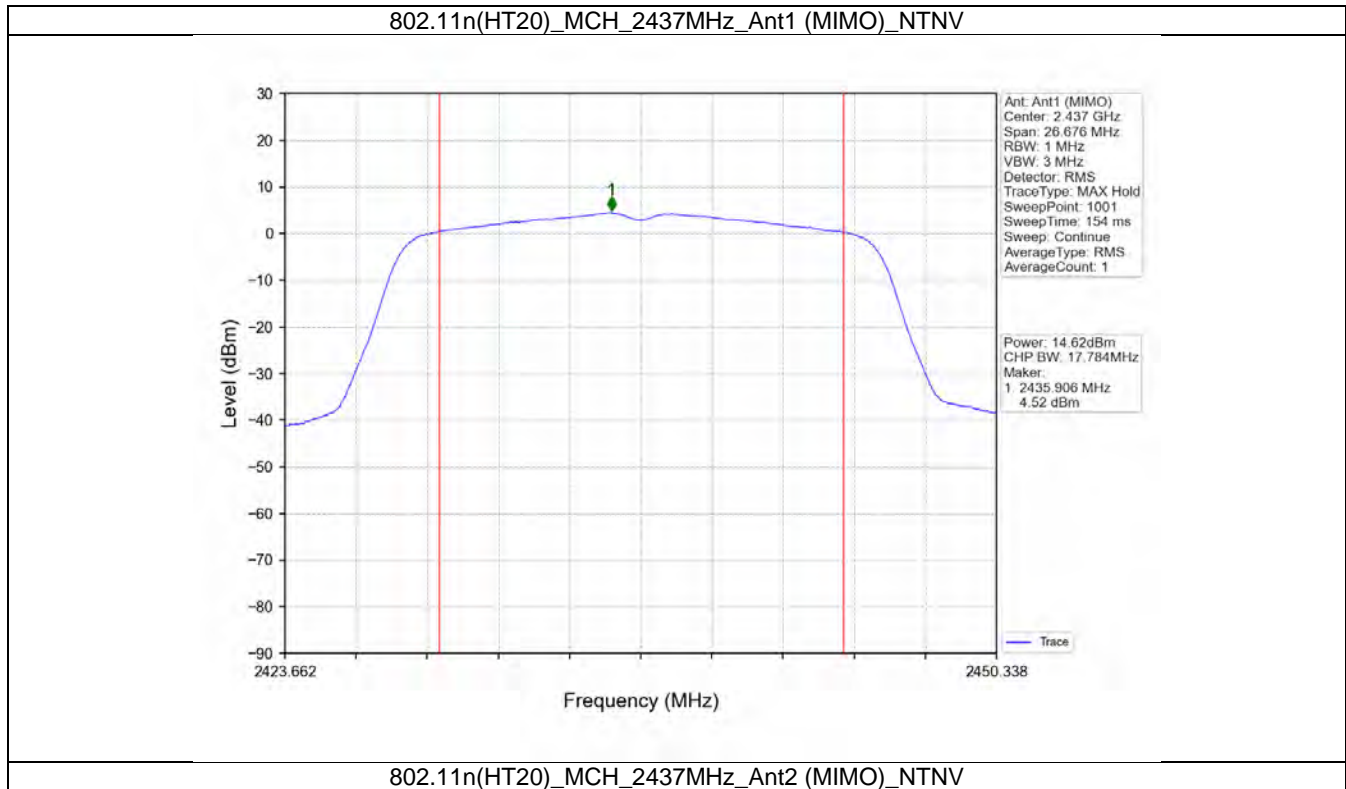
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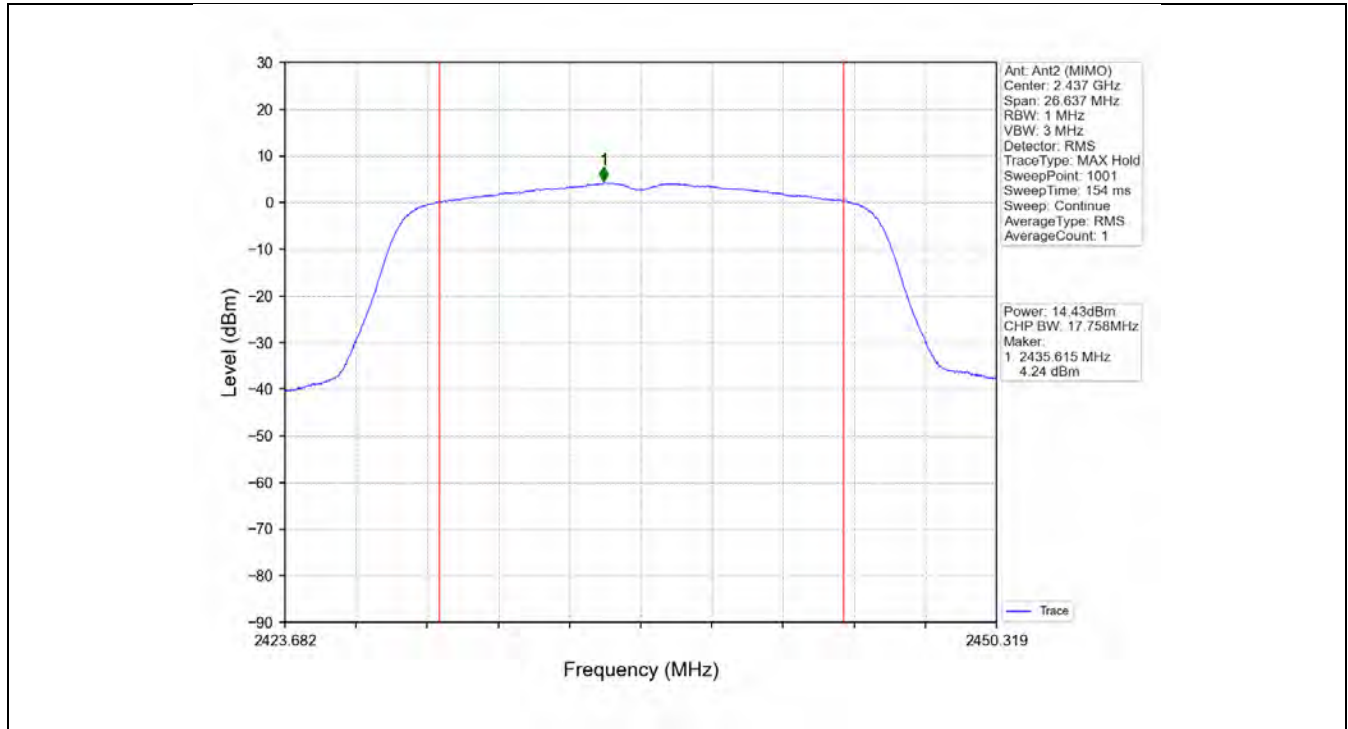


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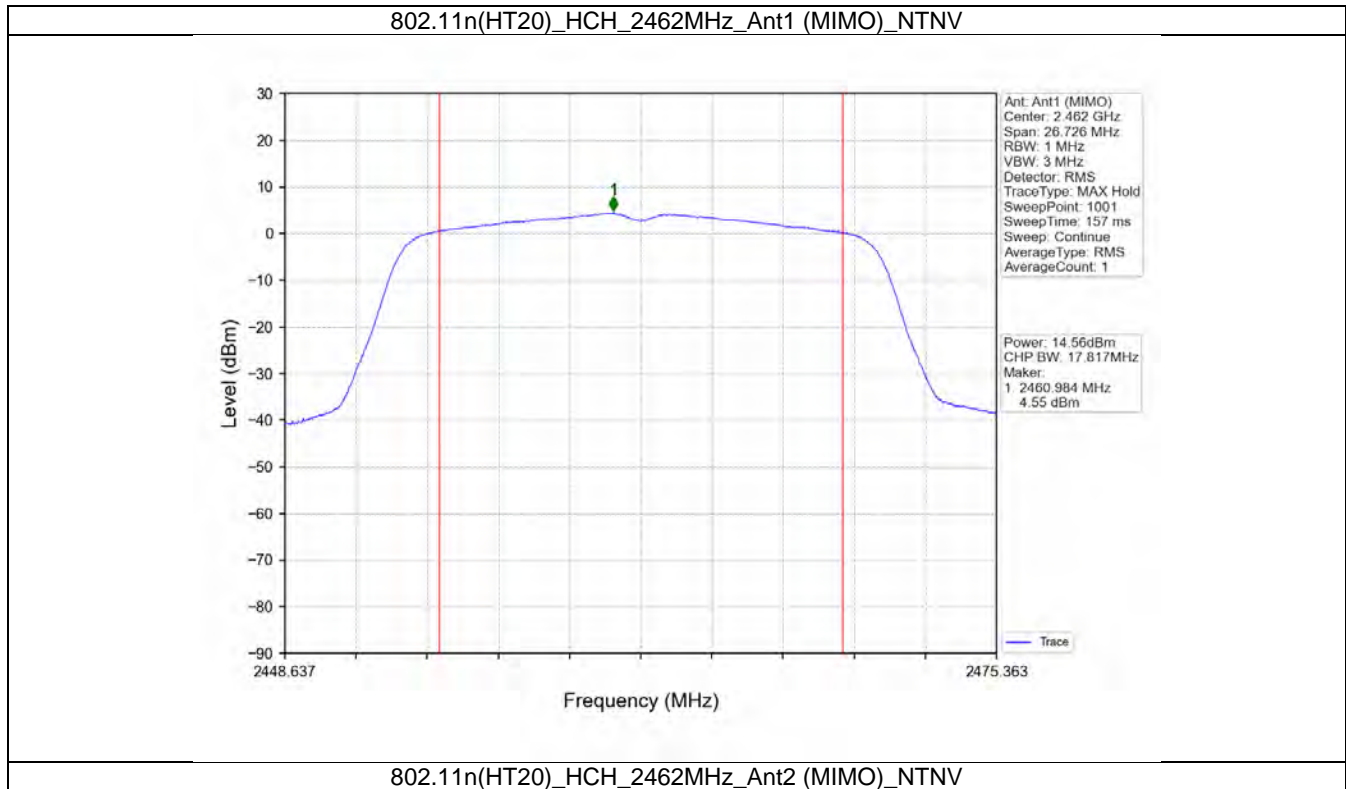


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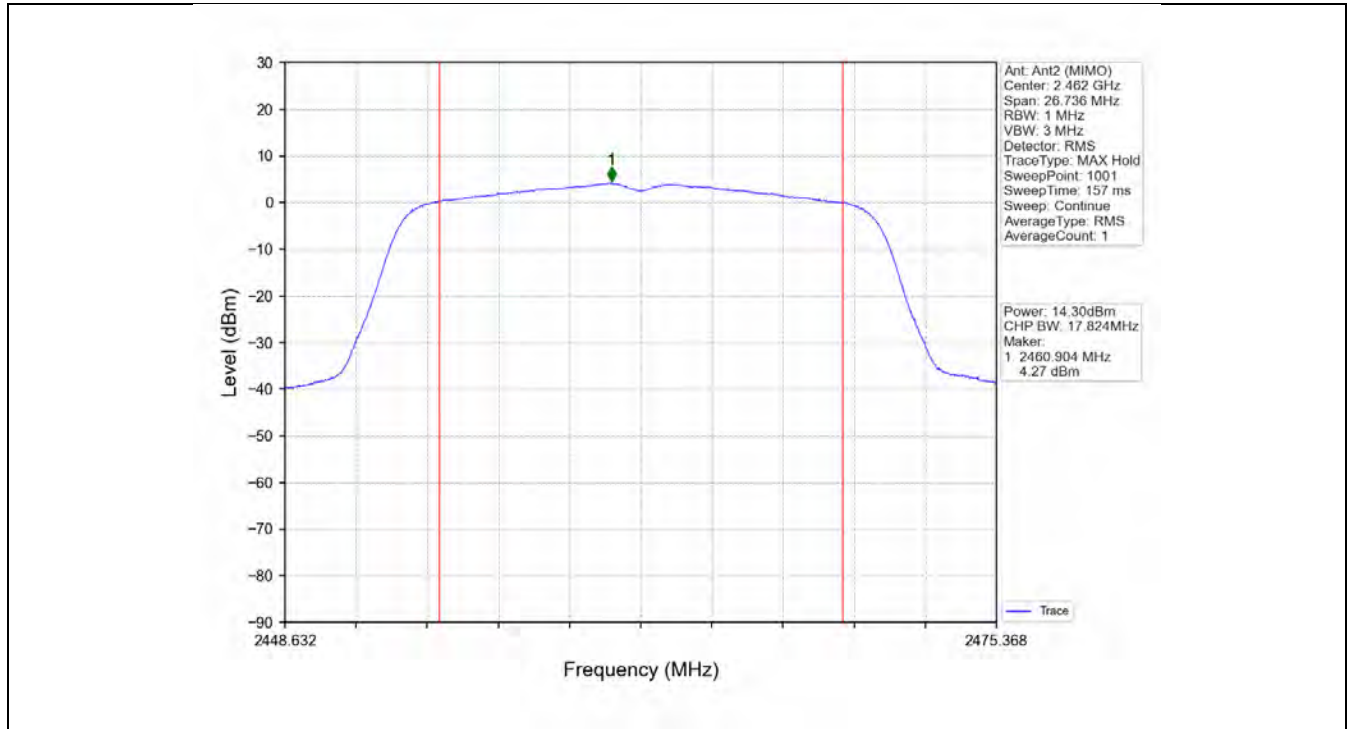


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4. Maximum Power Spectral Density

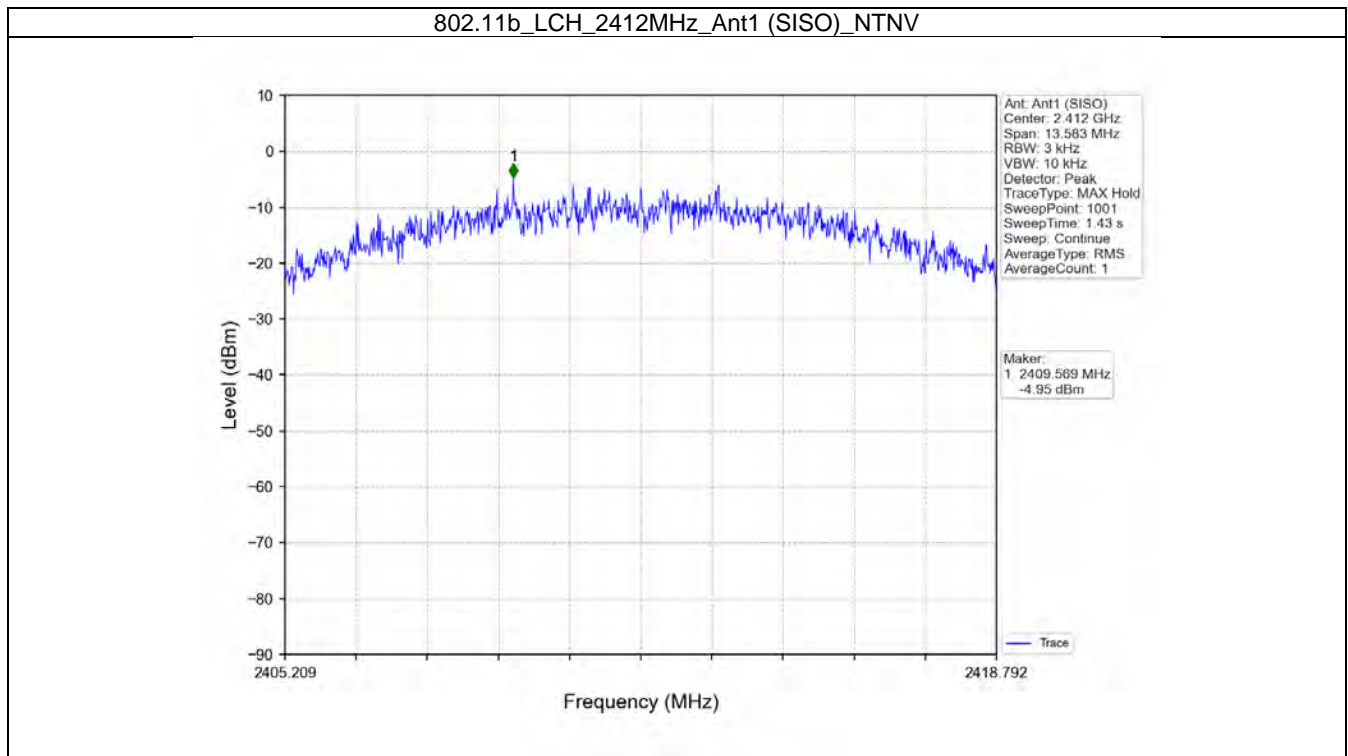
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-4.95	-1.27	/	<=8	Pass
		2437	-2.91	3.58	/	<=8	Pass
		2462	-5.76	2.47	/	<=8	Pass
802.11g	SISO	2412	-7.18	-7.70	/	<=8	Pass
		2437	-8.30	-8.20	/	<=8	Pass
		2462	-9.18	-8.58	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-11.50	-10.23	-7.95	<=8	Pass
		2437	-11.51	-11.42	-8.85	<=8	Pass
		2462	-11.67	-11.39	-9.21	<=8	Pass

Note1: Antenna Gain: Ant1: 2.40dBi; Ant2: 2.40dBi;

4.1.2 Test Graph

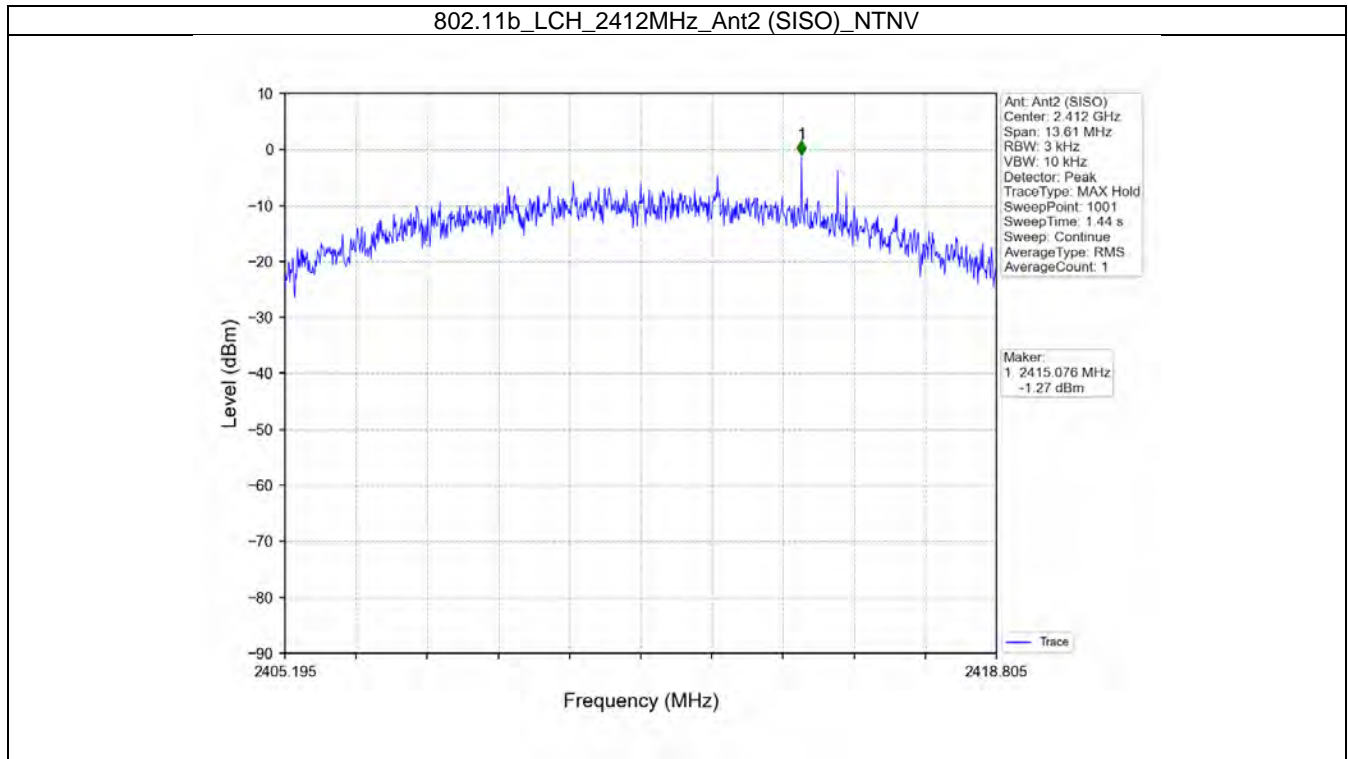


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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

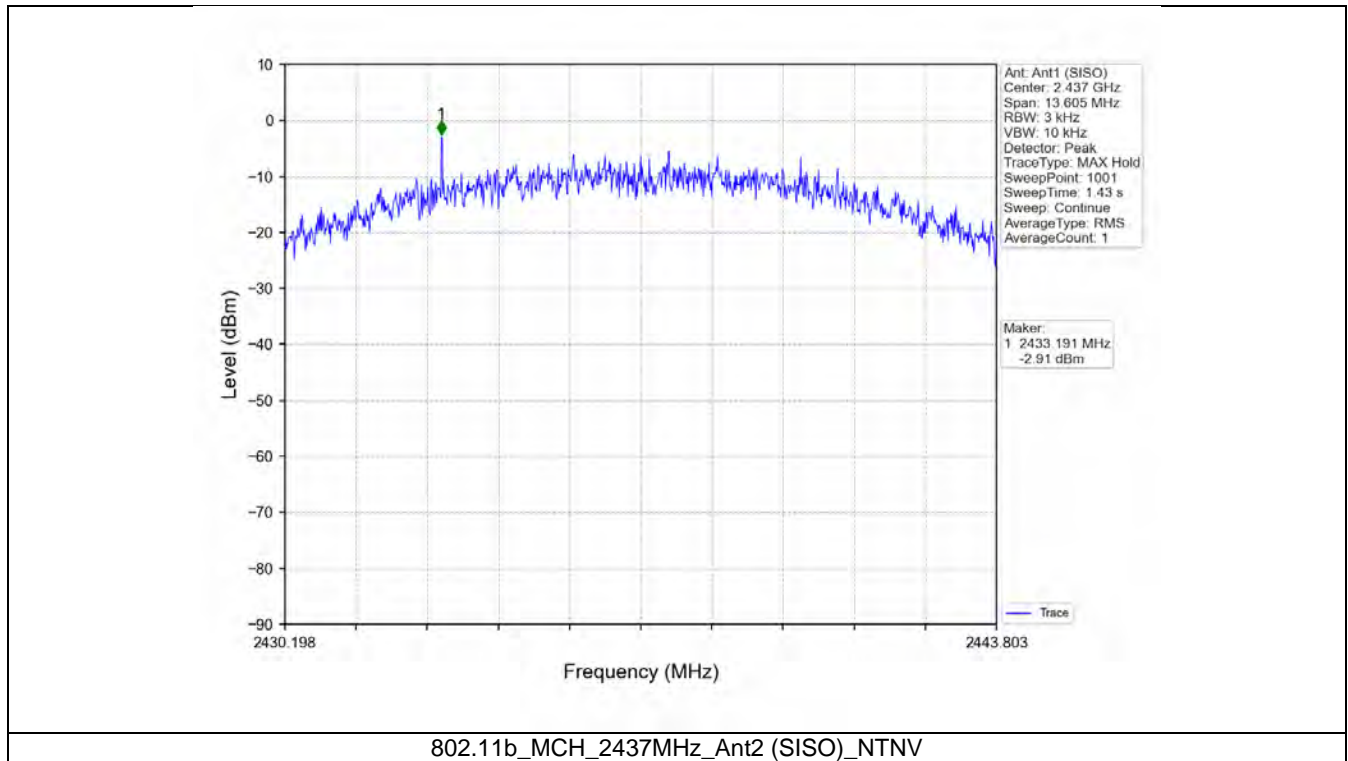


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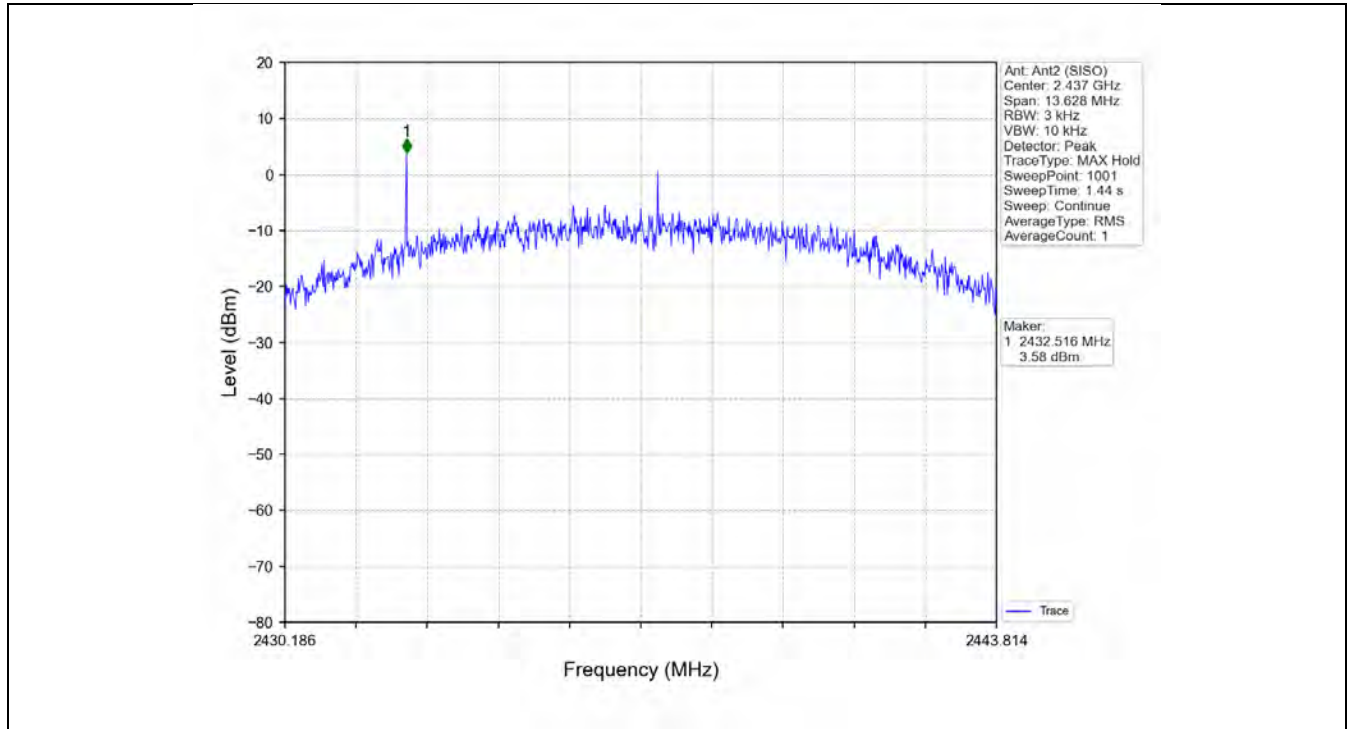


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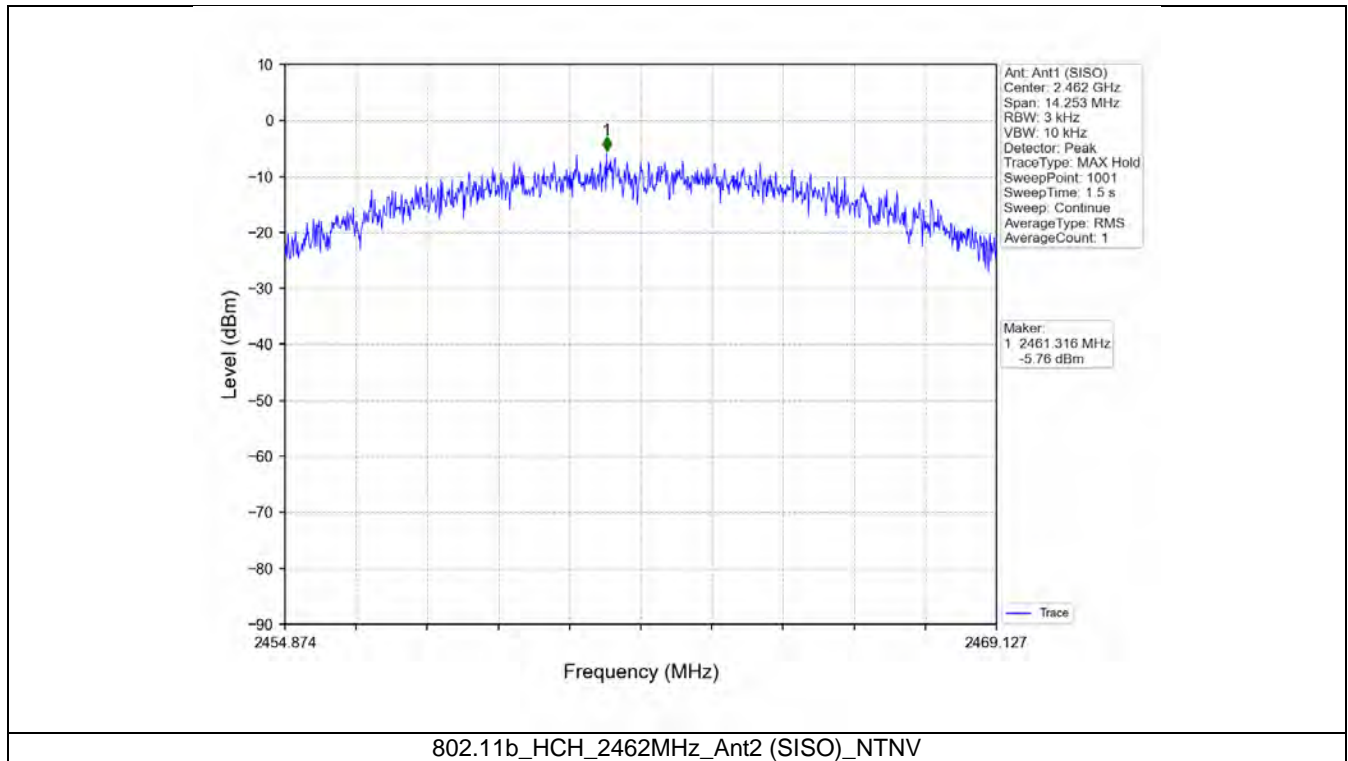


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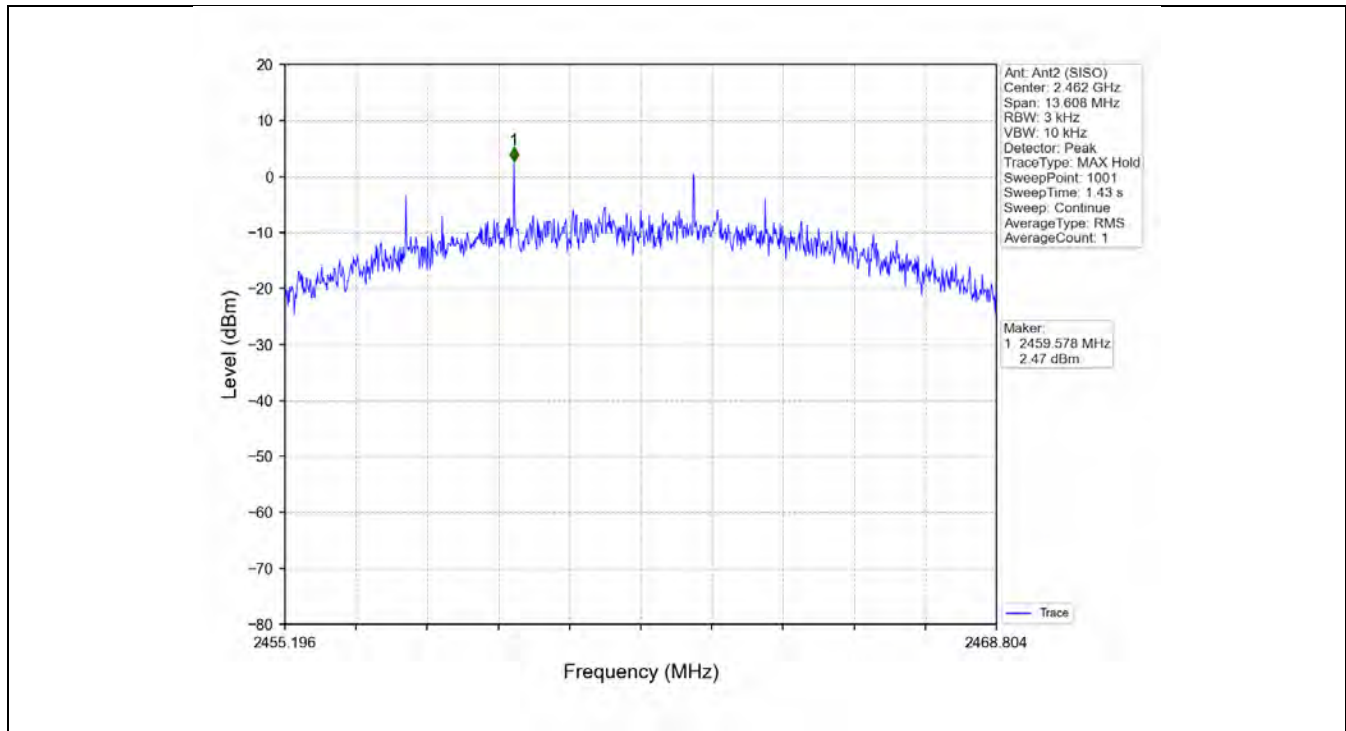


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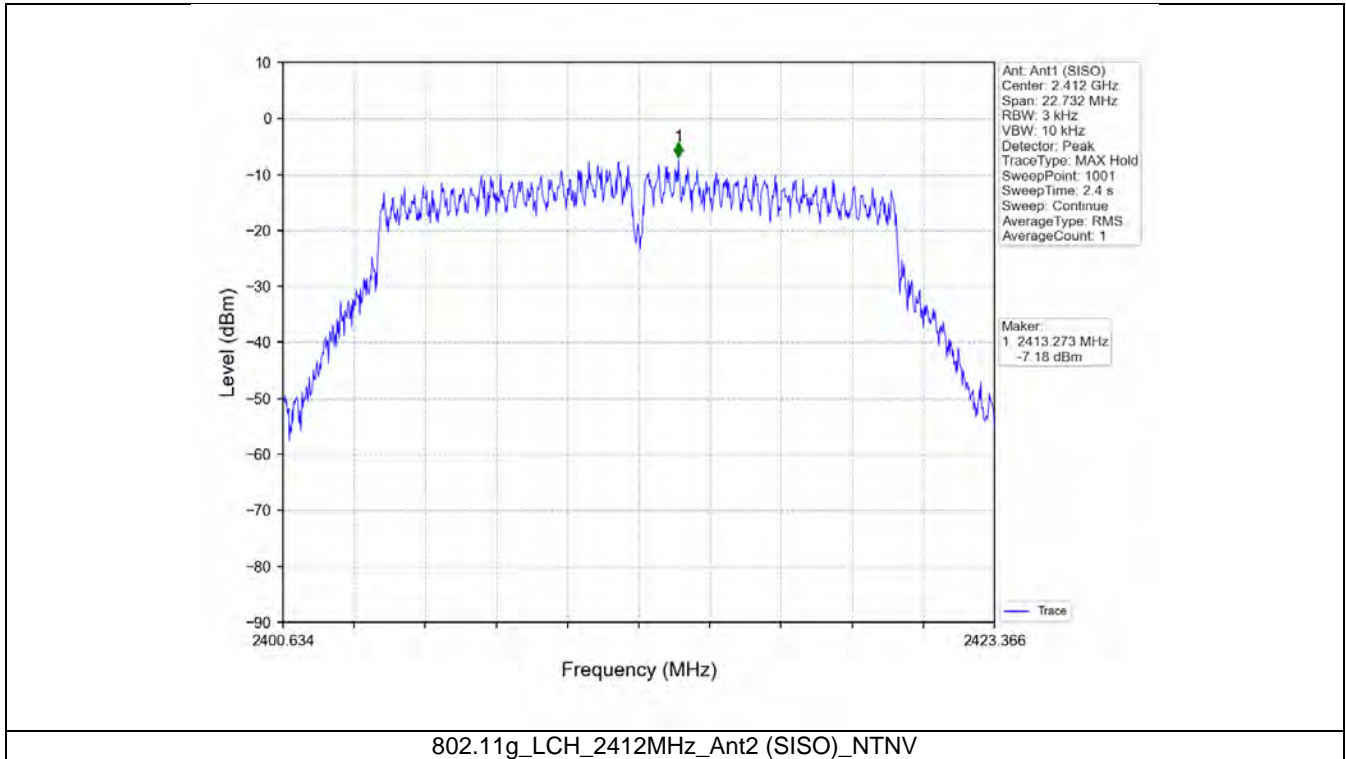


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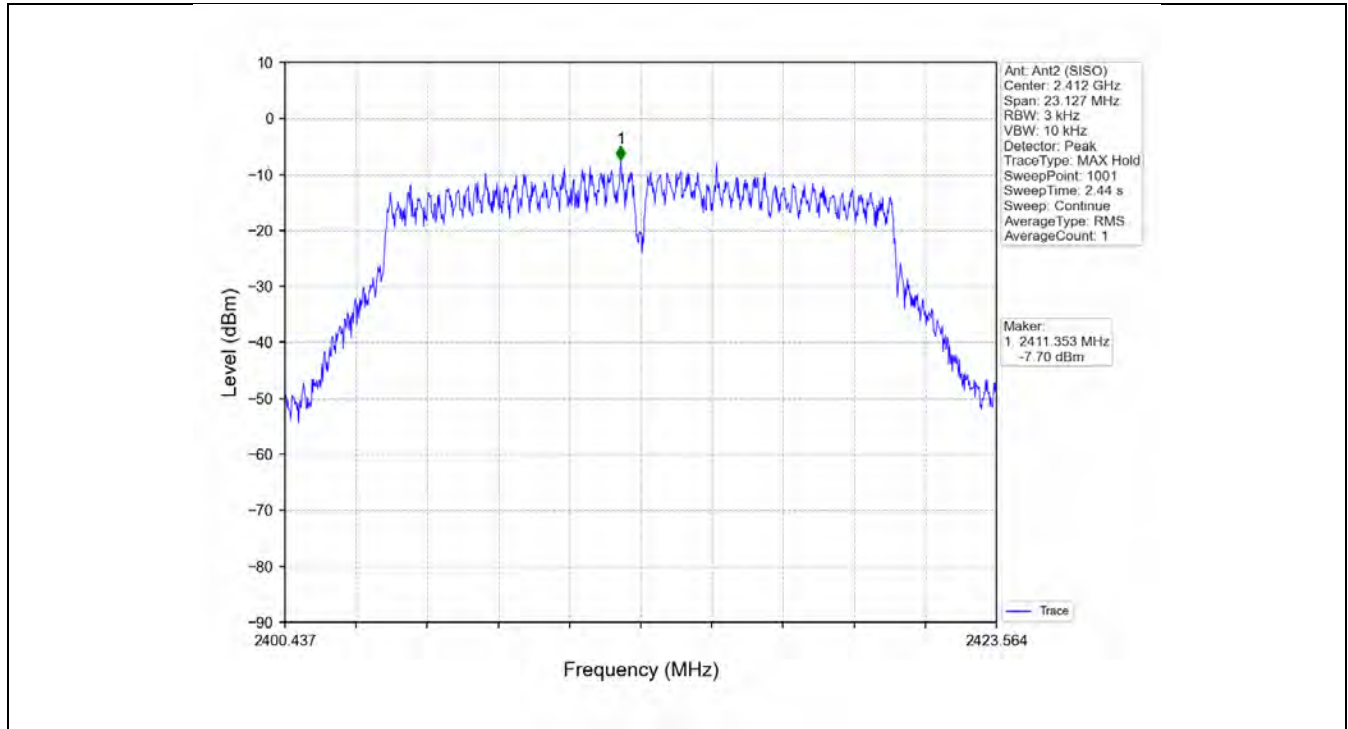


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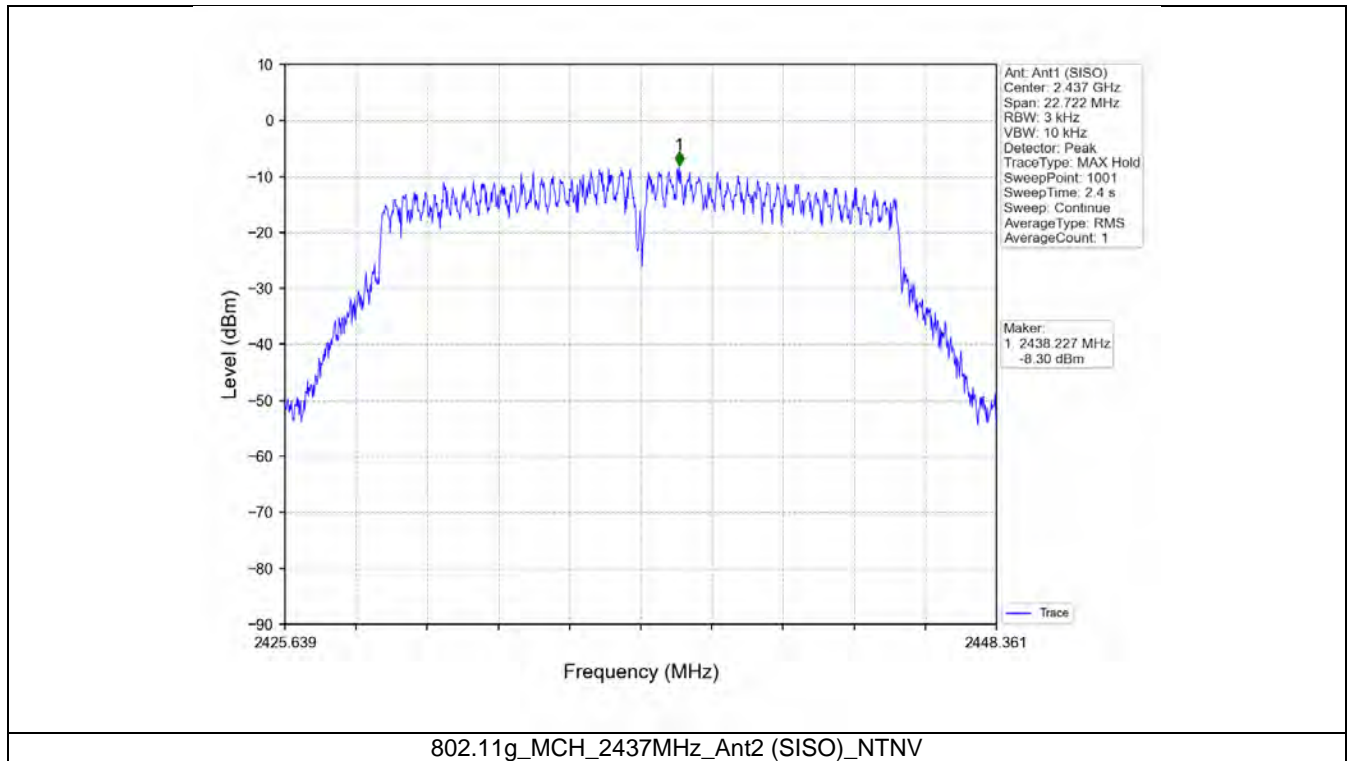


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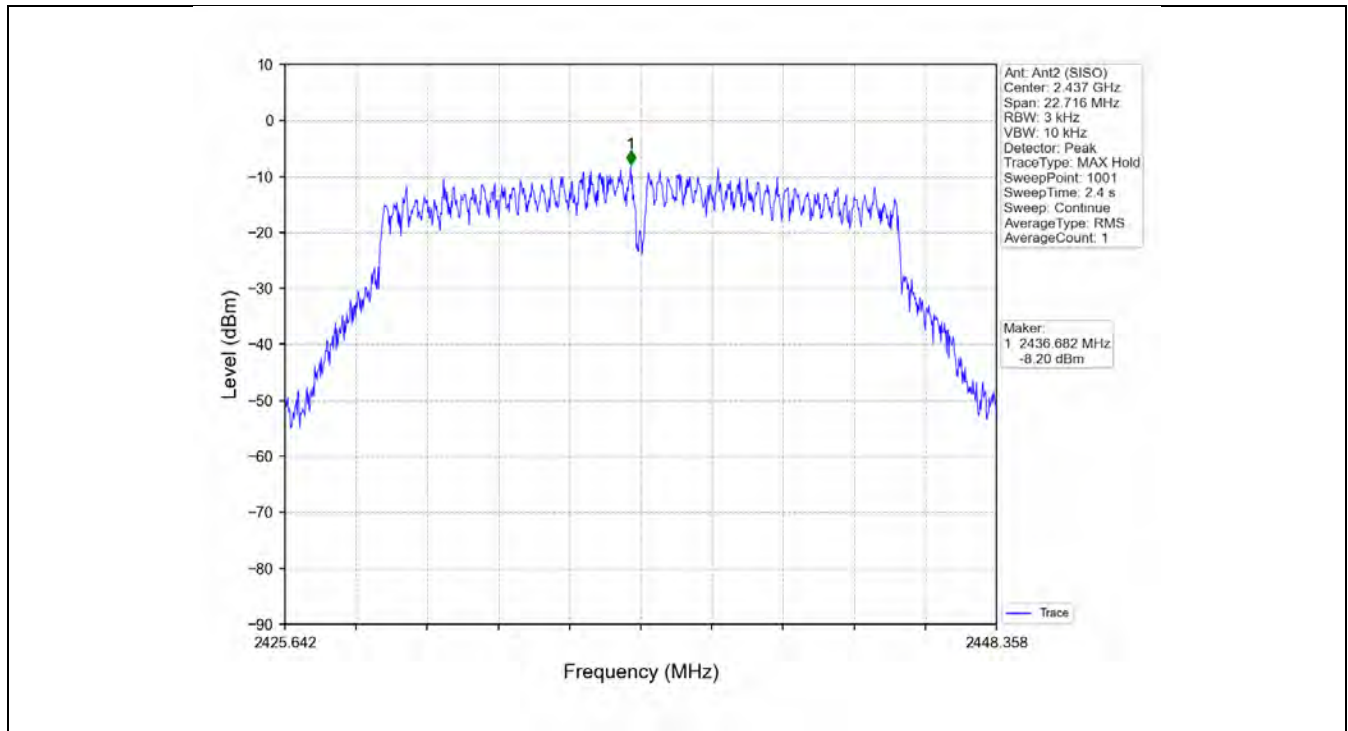


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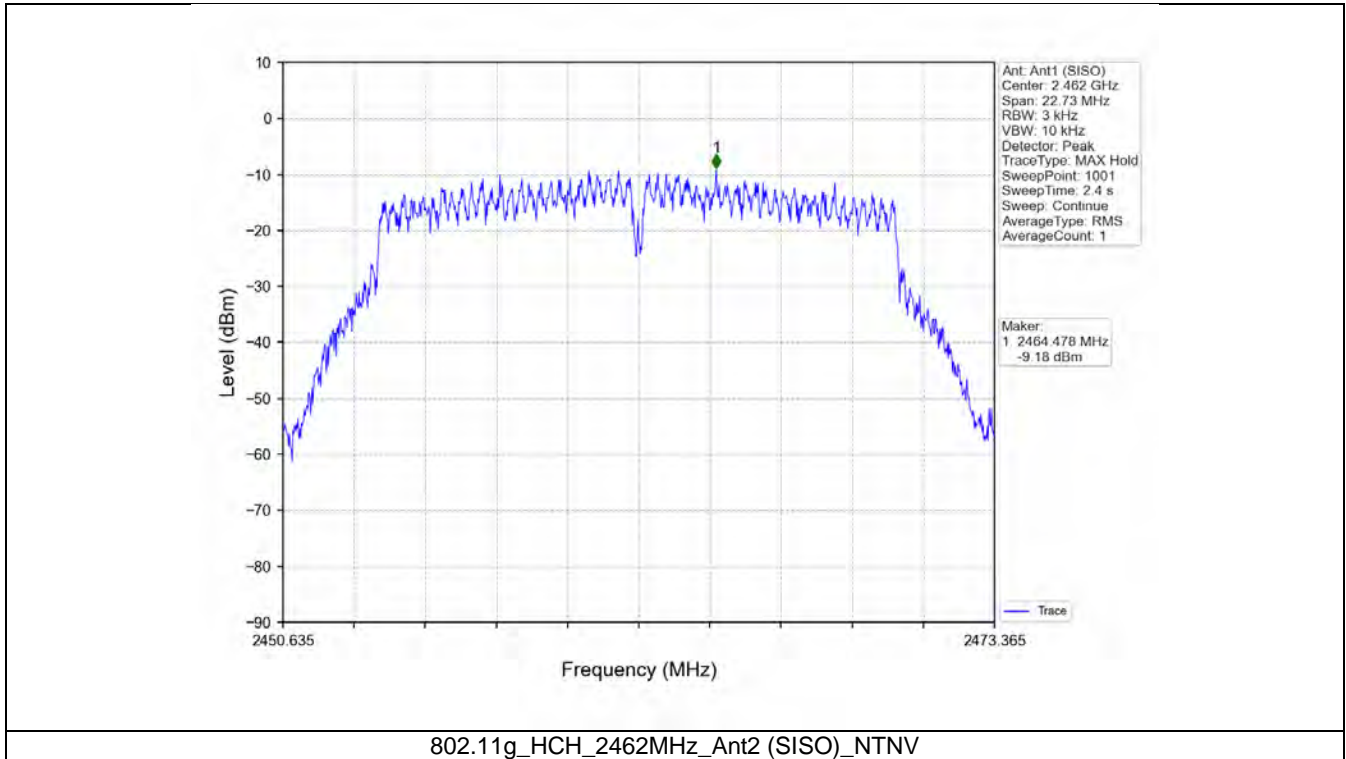


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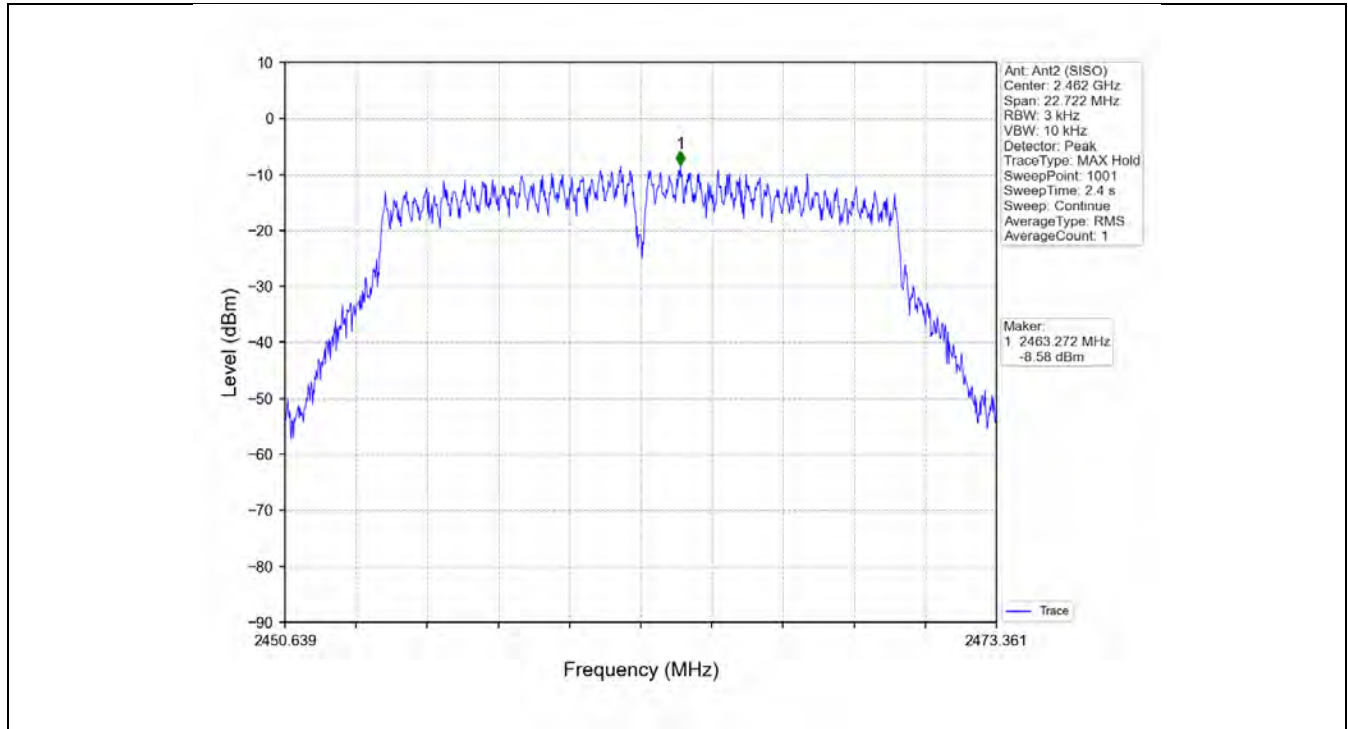
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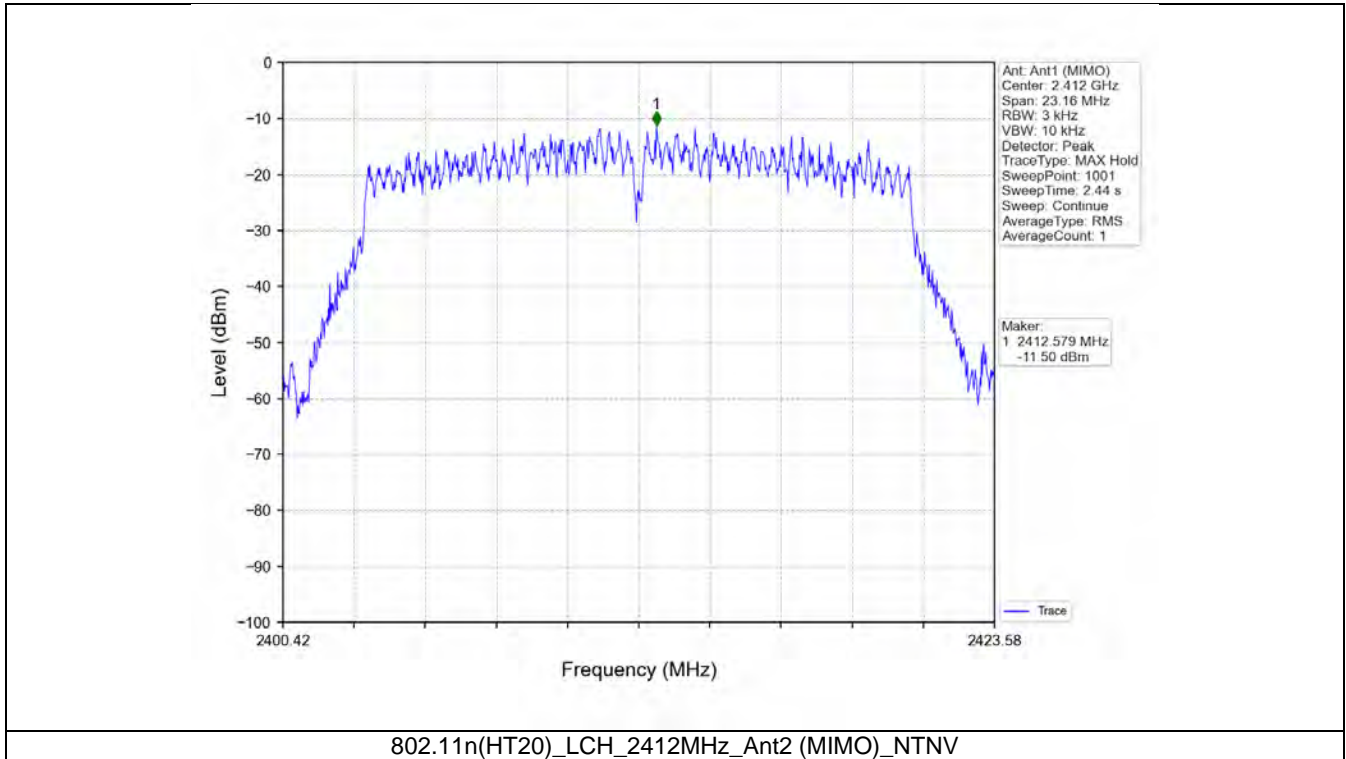


802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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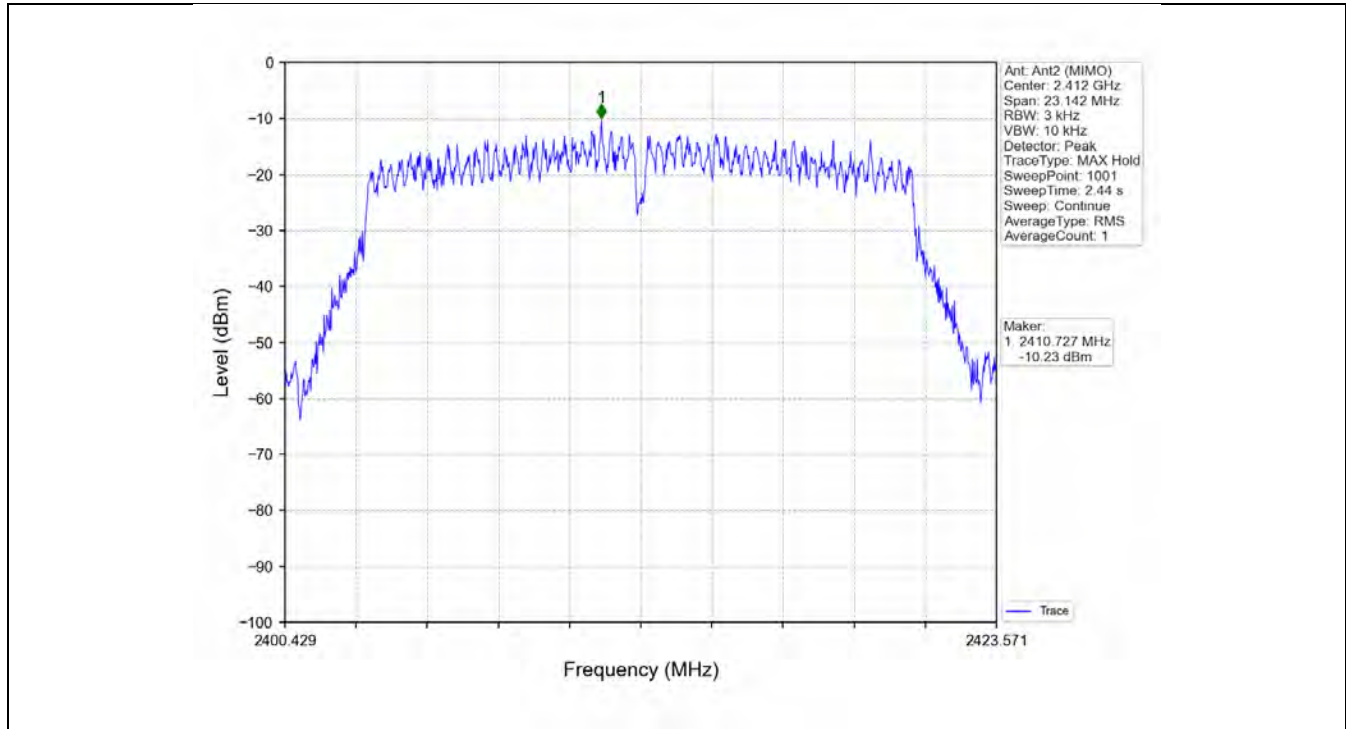


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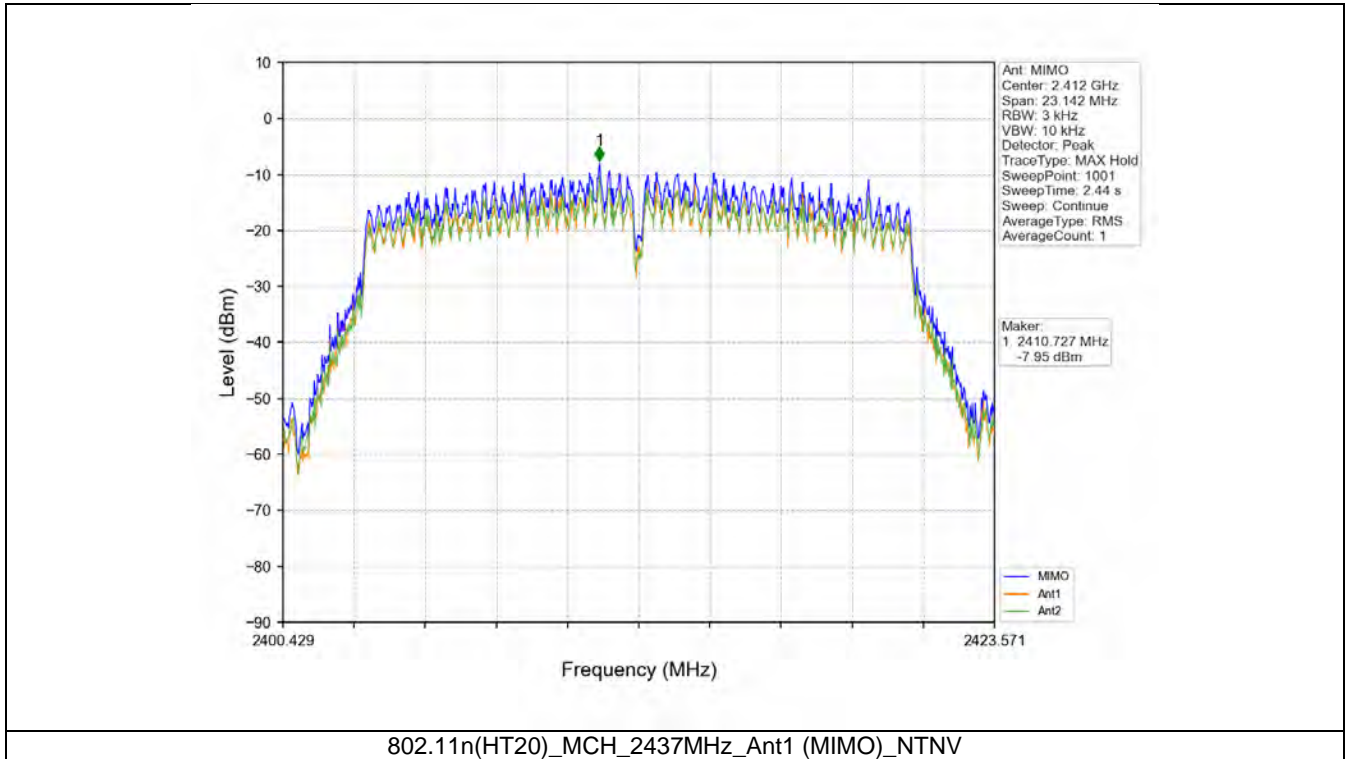
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



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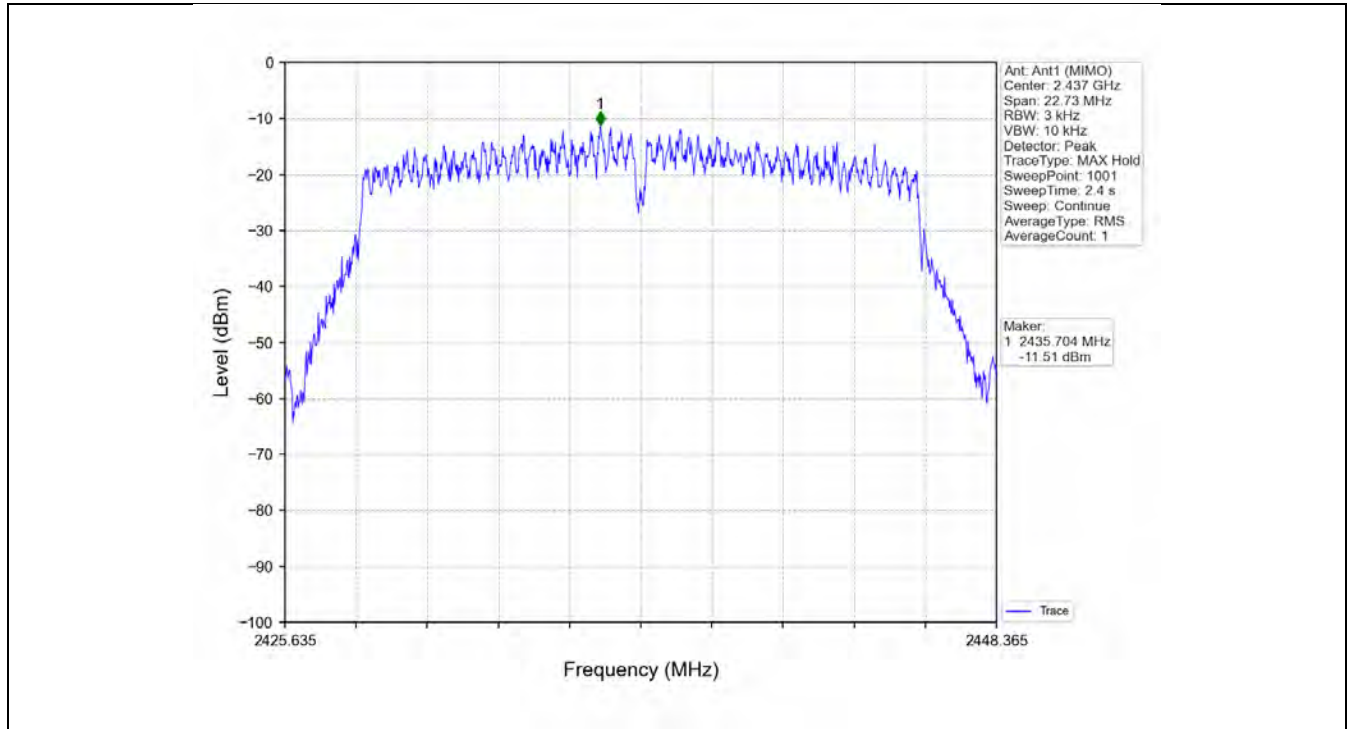


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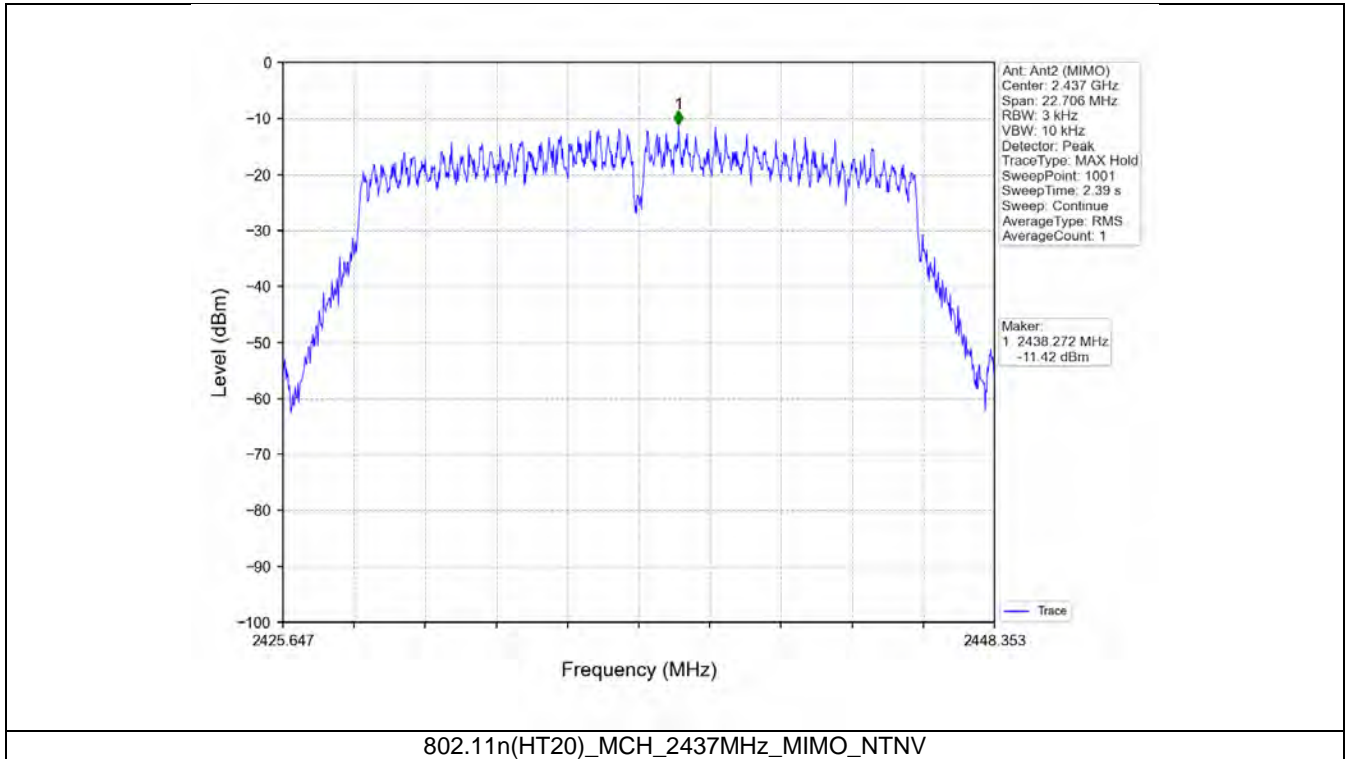


802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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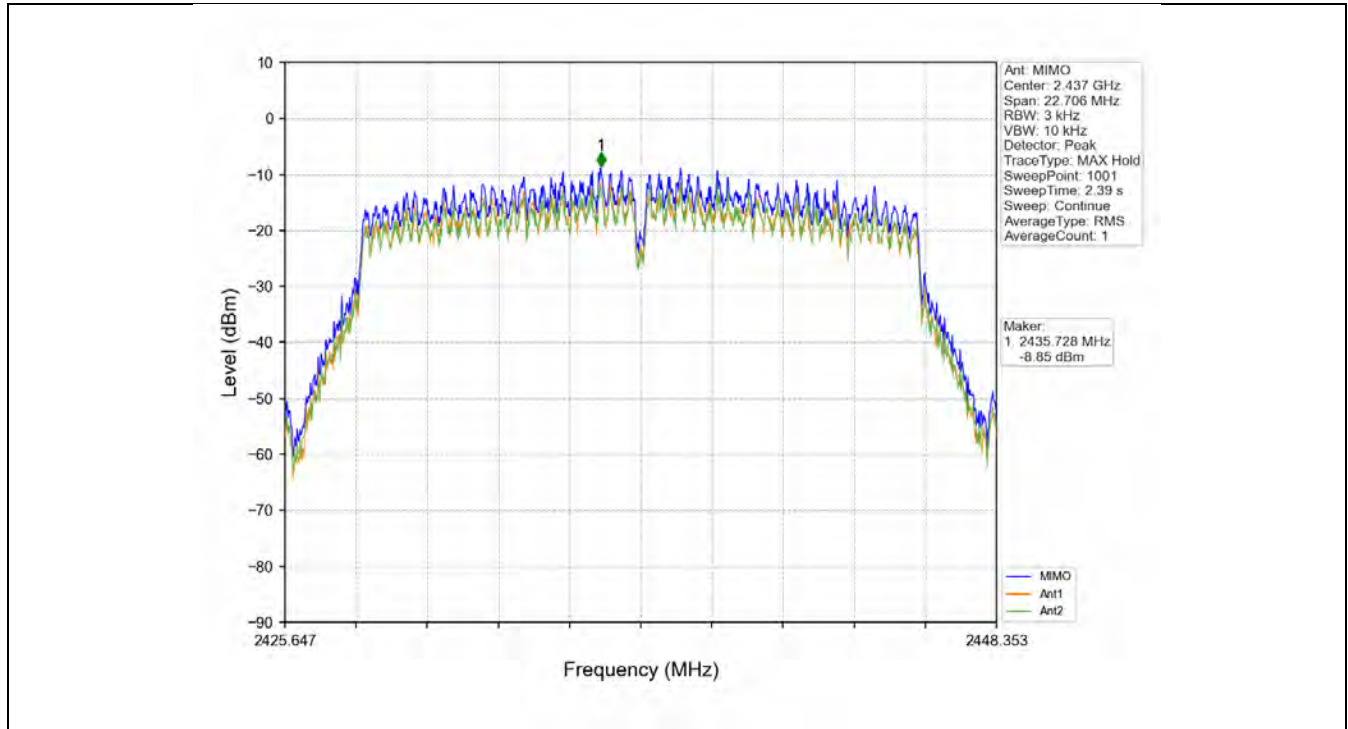


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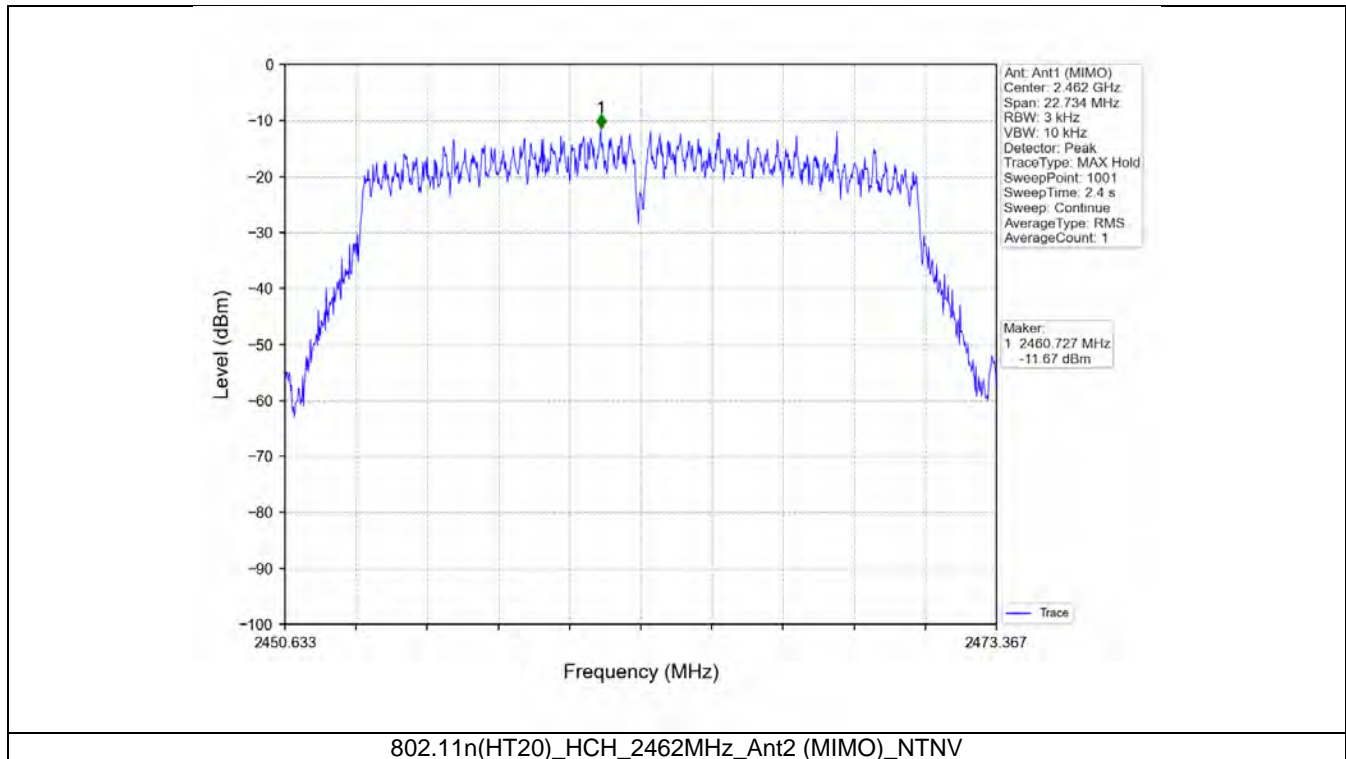


802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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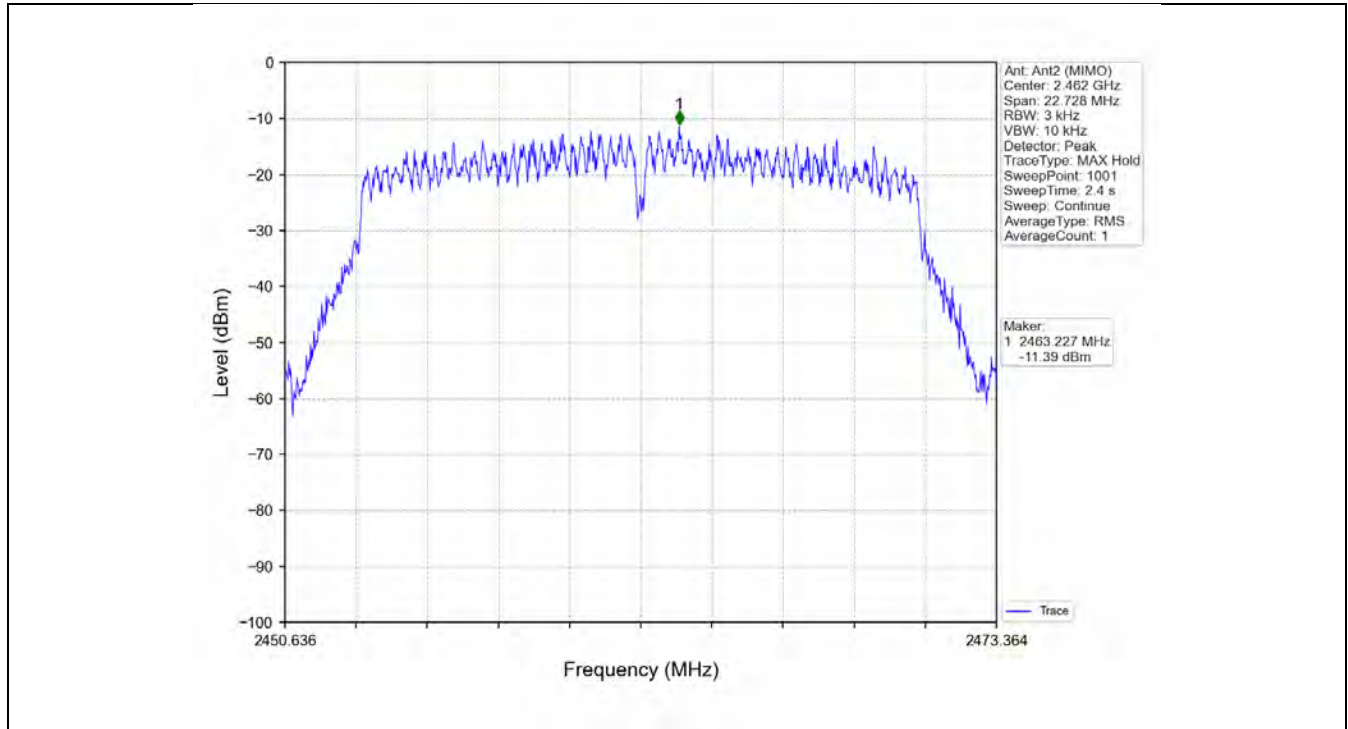


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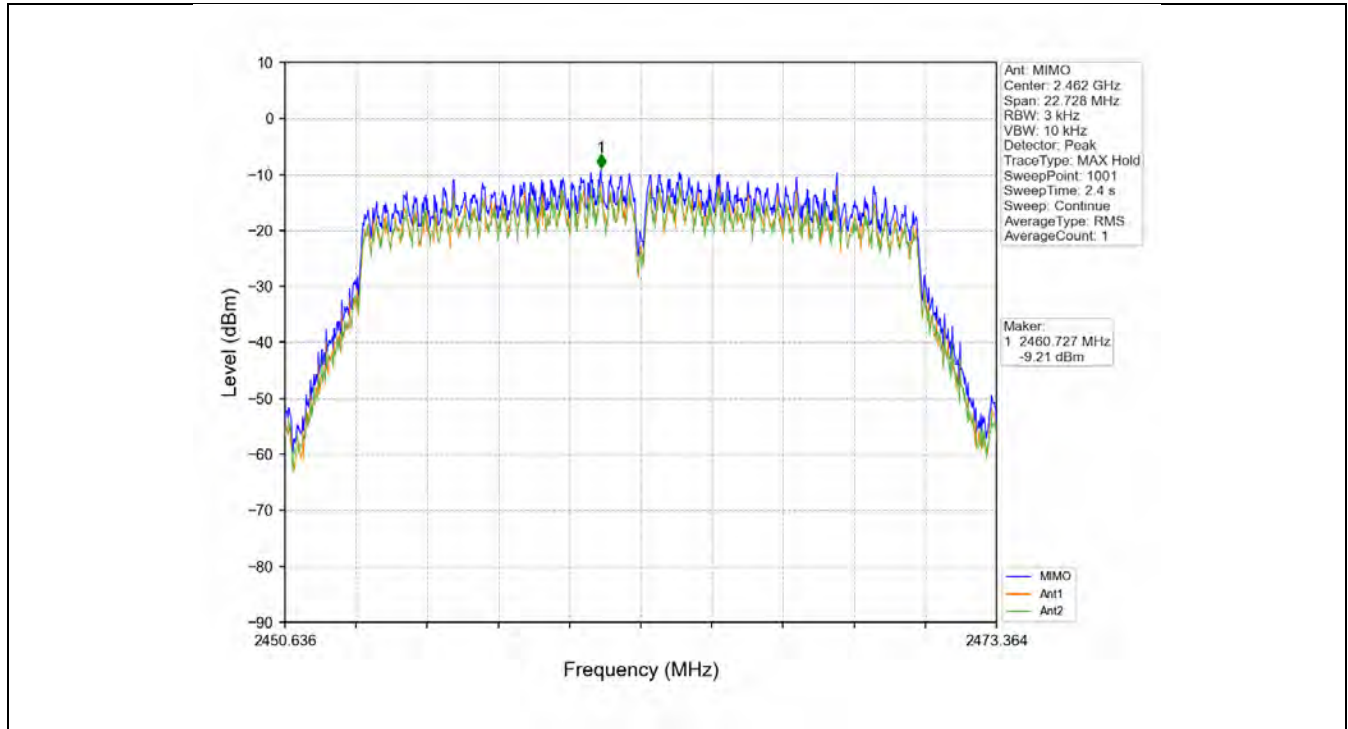


802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



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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	8.68
			2	9.06
		2437	1	8.73
			2	9.03
		2462	1	8.53
			2	9.06
802.11g	SISO	2412	1	8.00
			2	7.87
		2437	1	7.93
			2	7.87
		2462	1	6.92
			2	7.66
802.11n (HT20)	MIMO	2412	1	4.53
			2	4.54
		2437	1	4.51
			2	4.47
		2462	1	4.38
			2	4.22

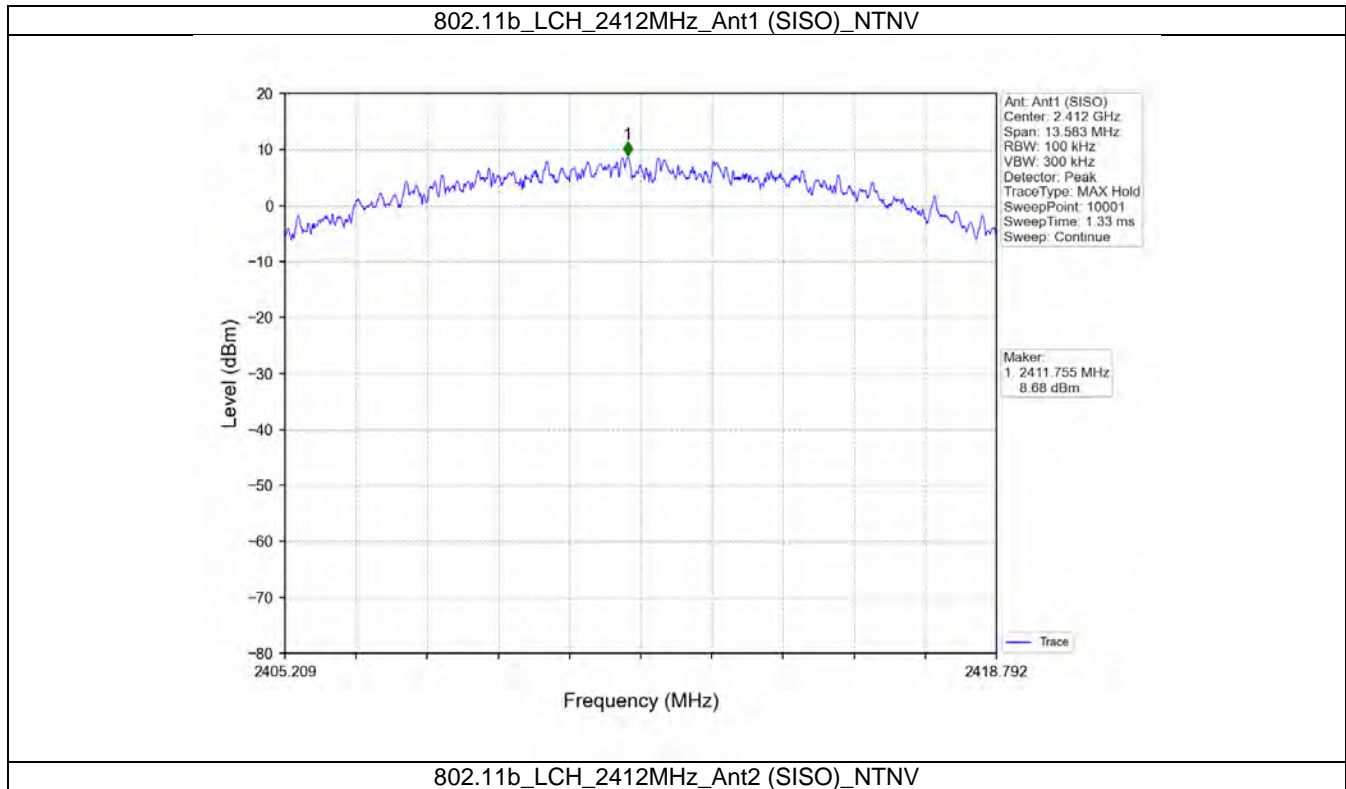
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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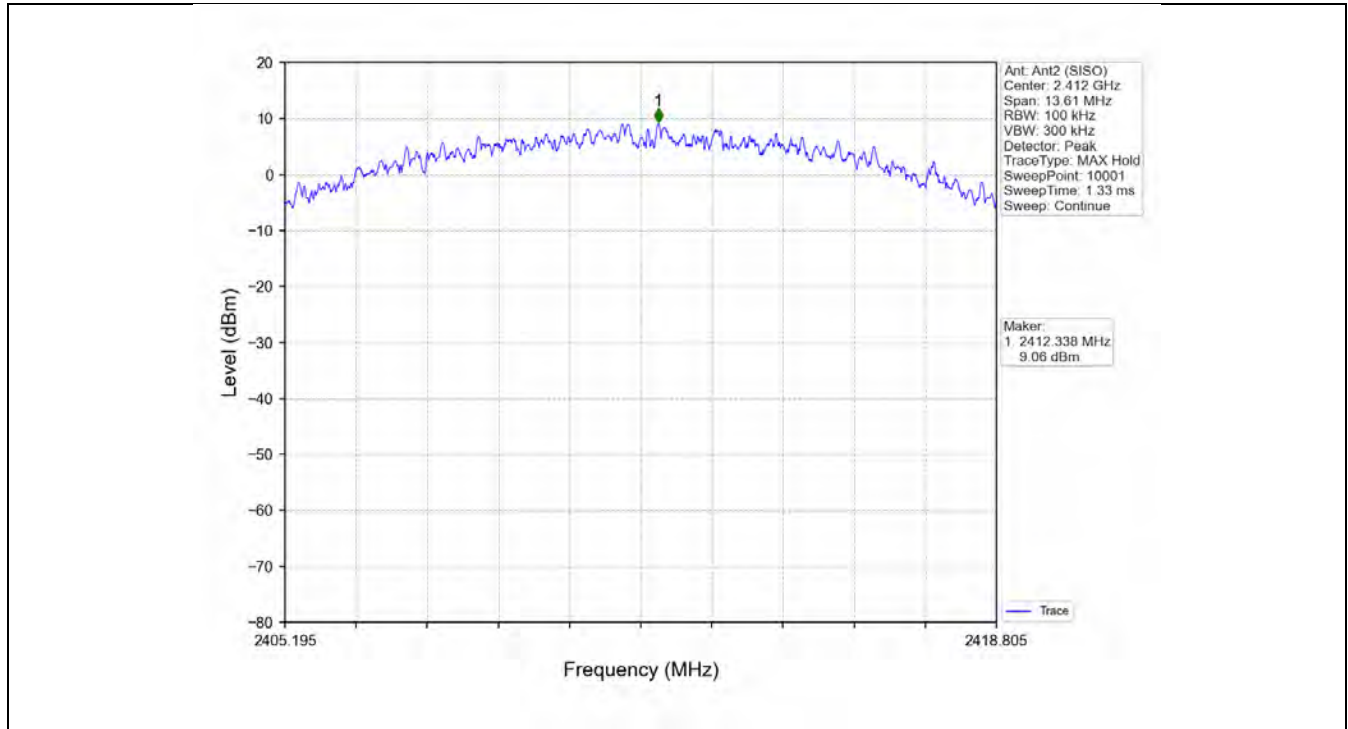
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5.1.2 Test Graph



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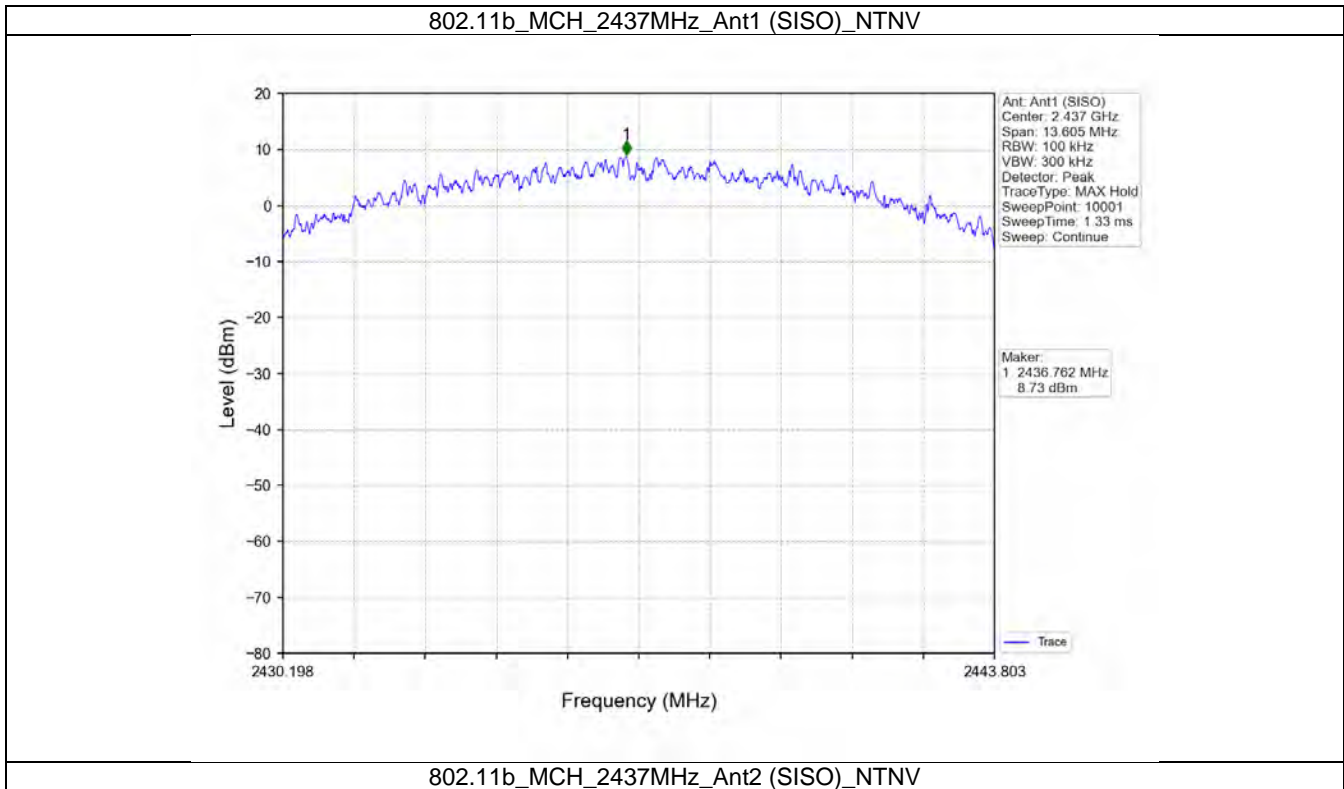


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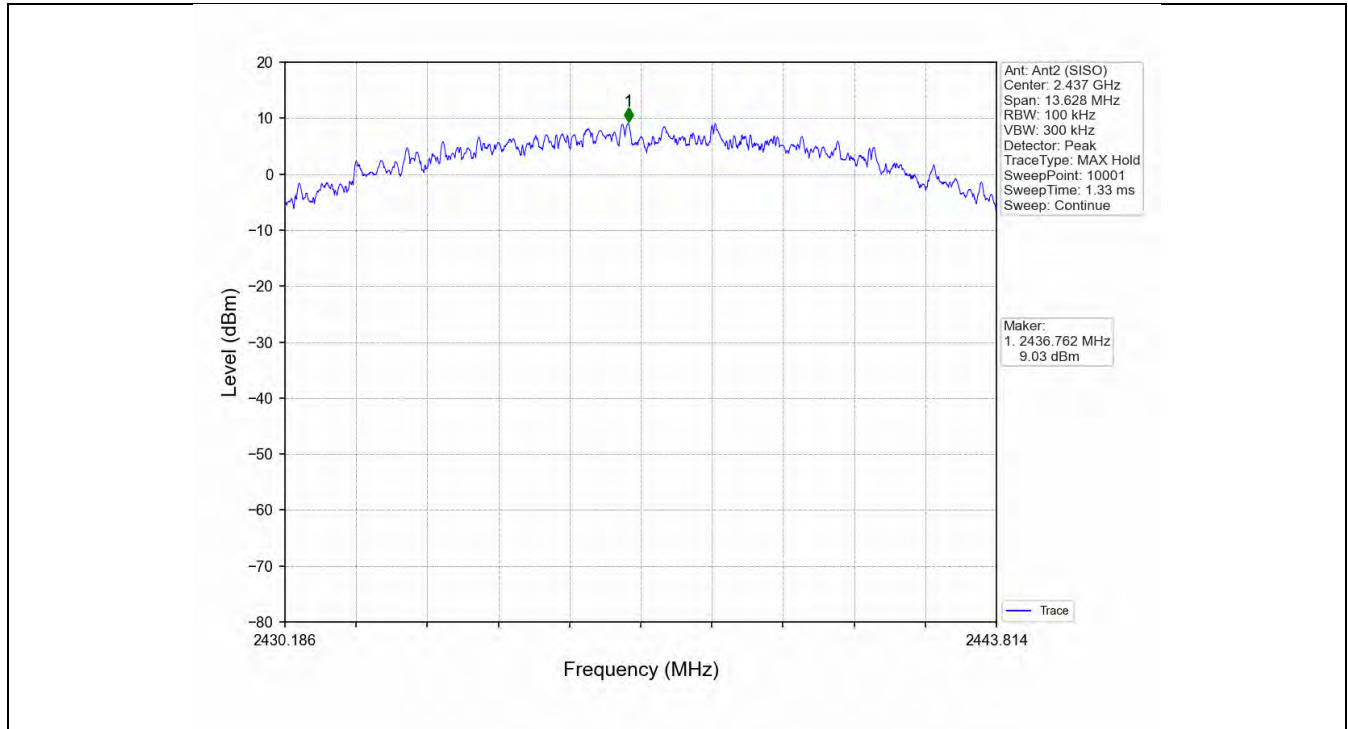


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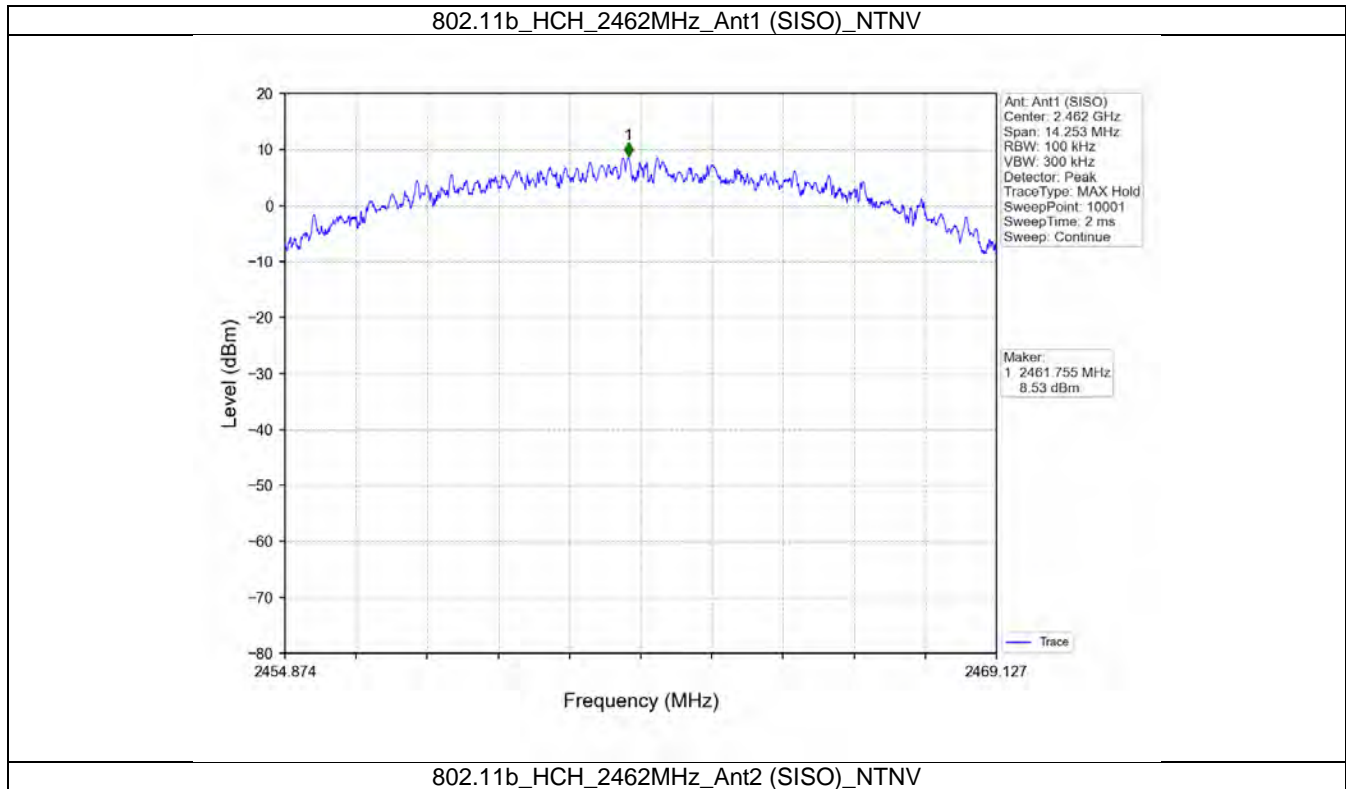


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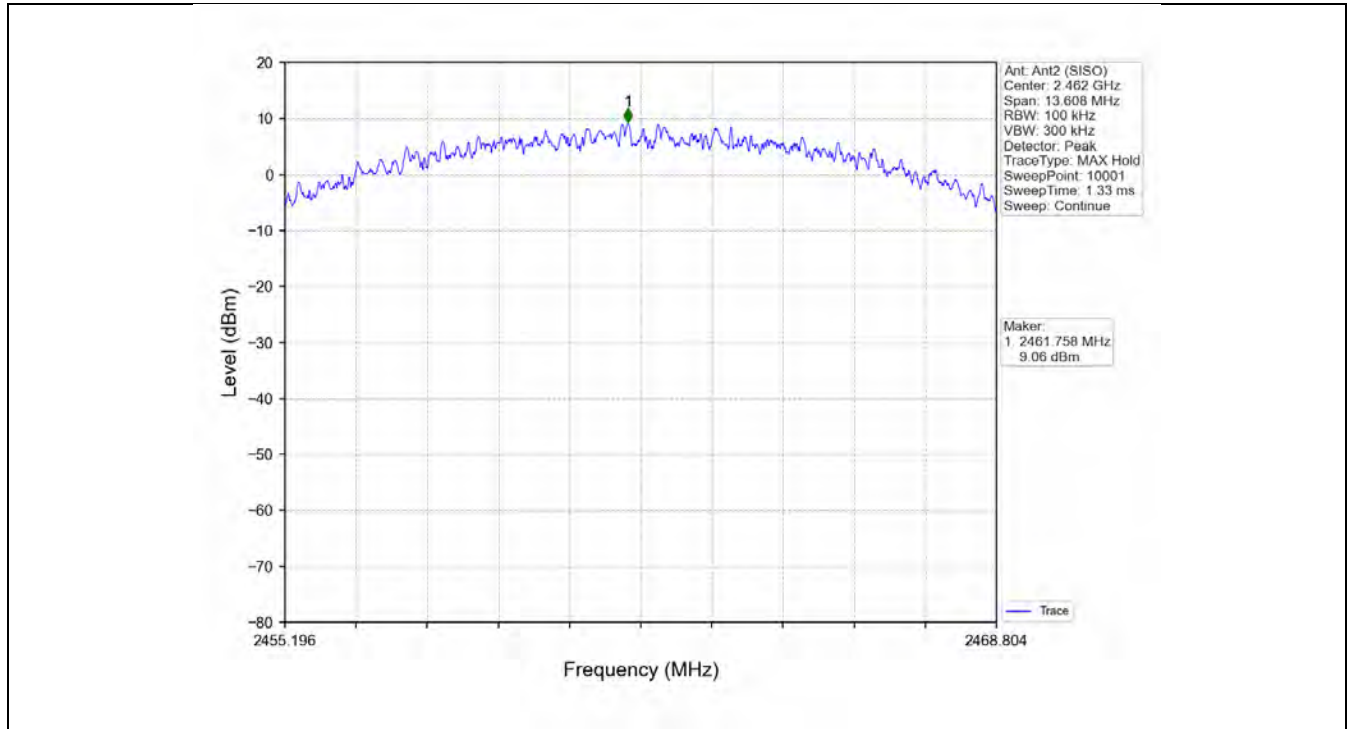


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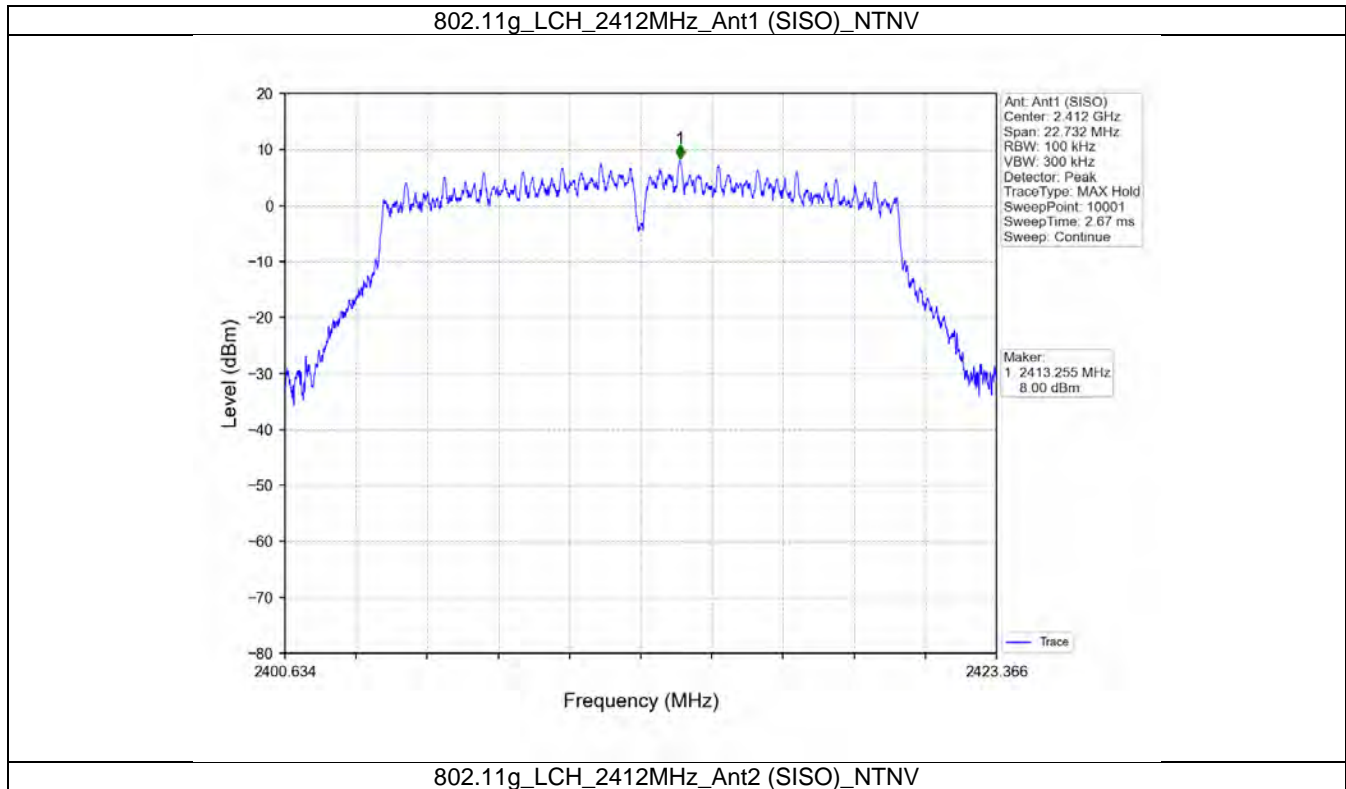


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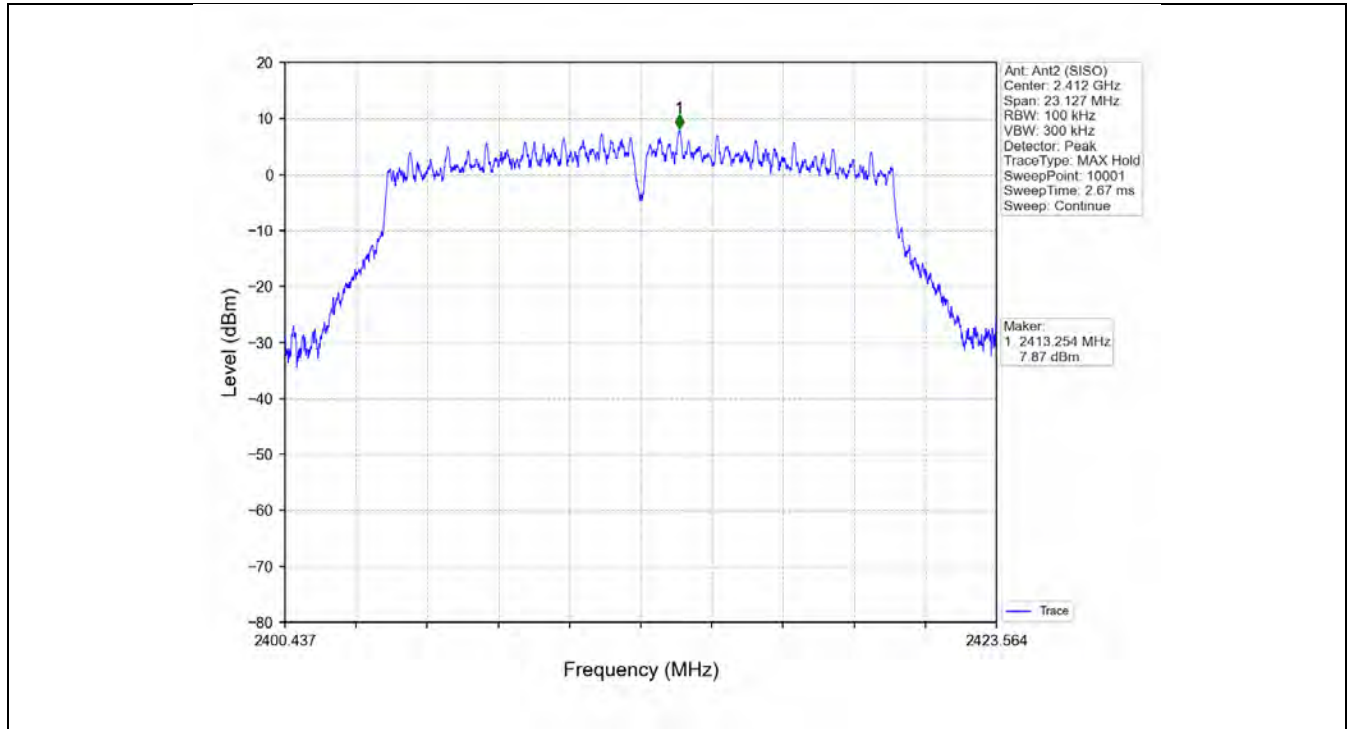
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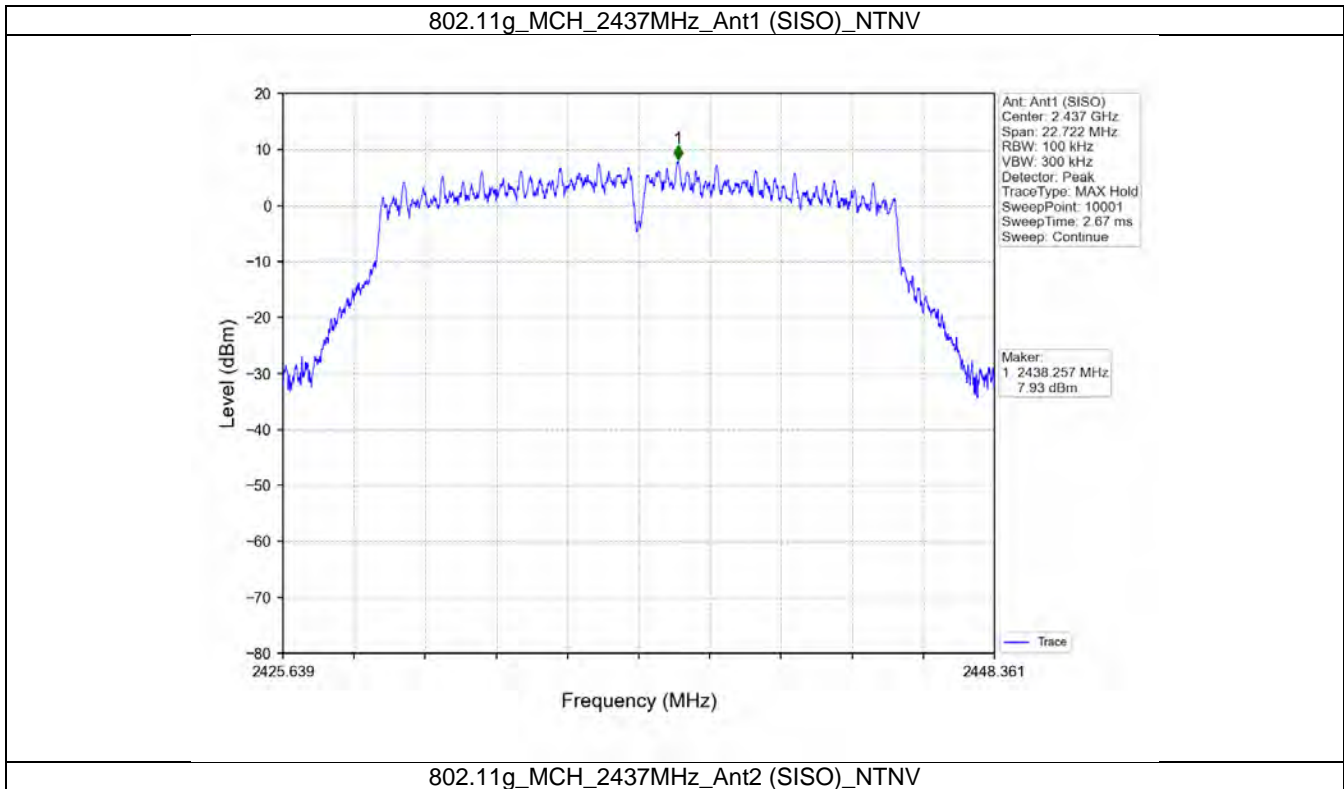
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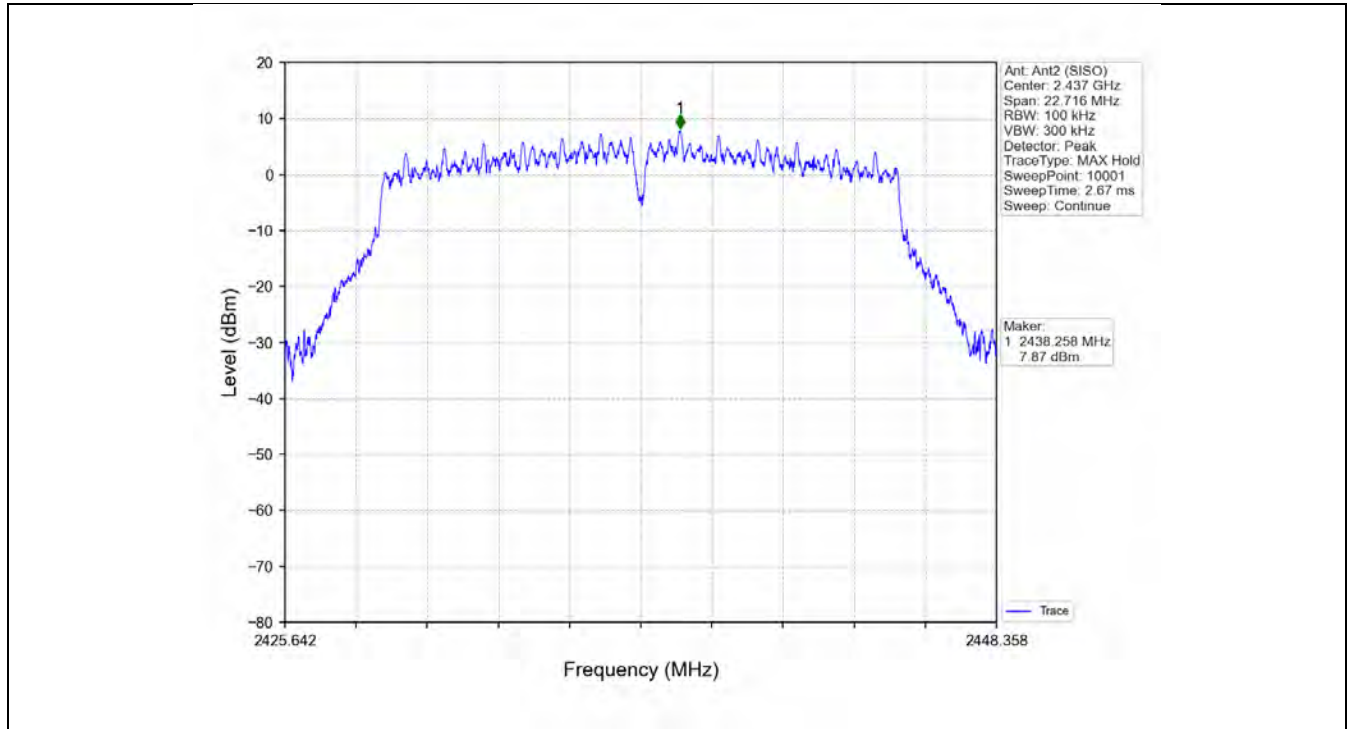


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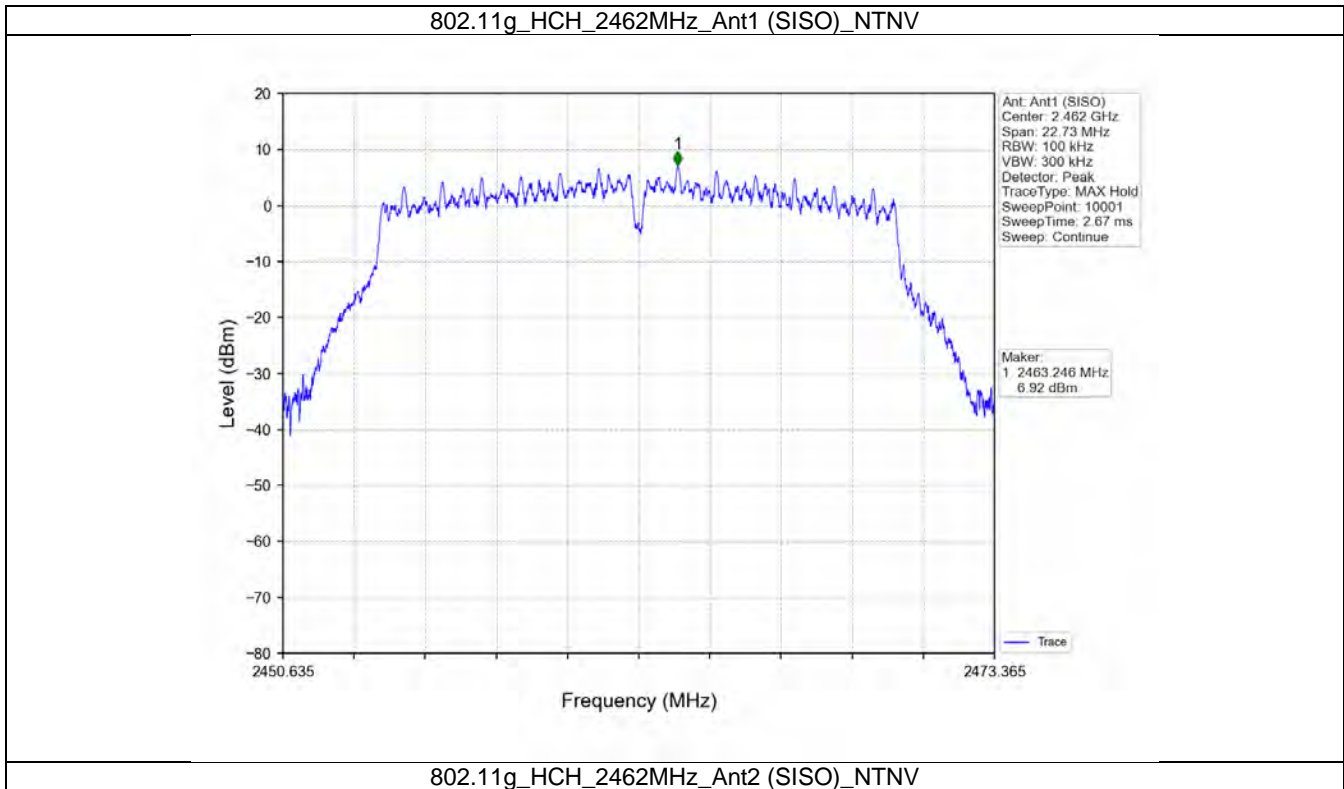
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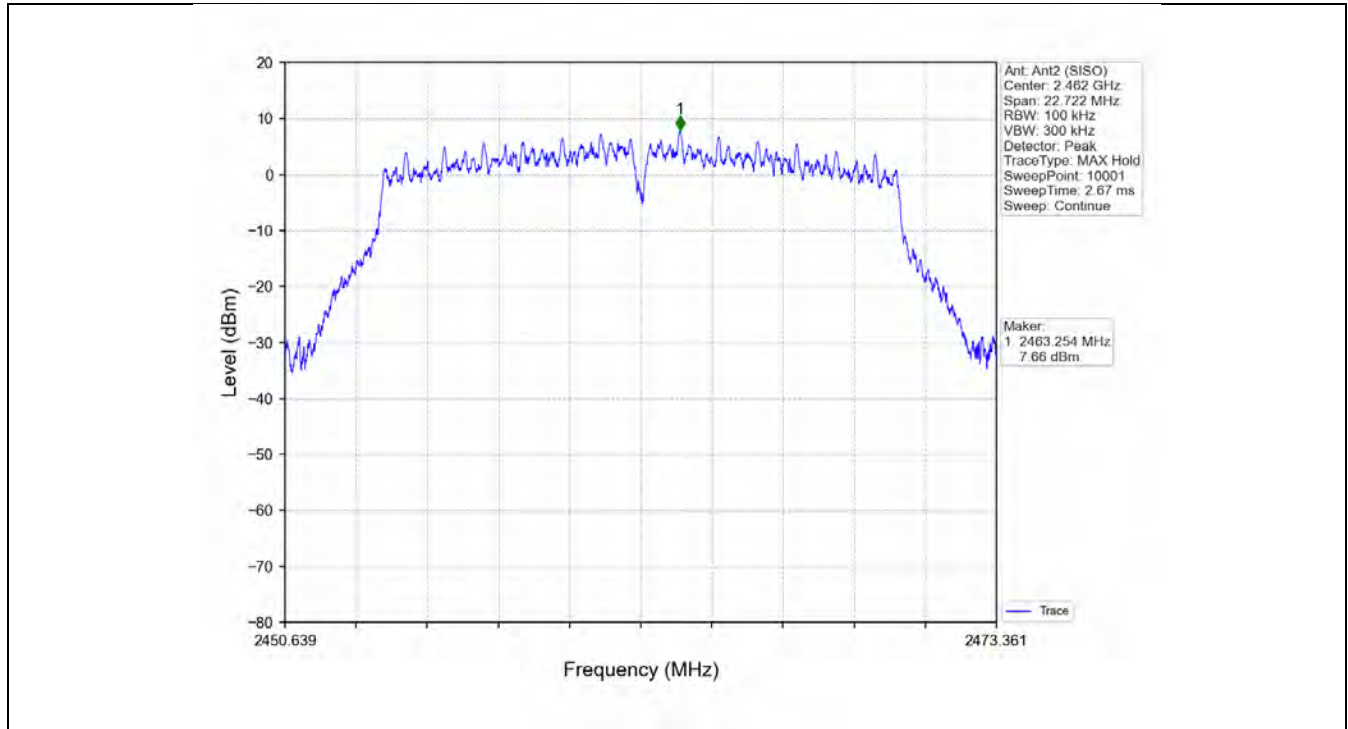


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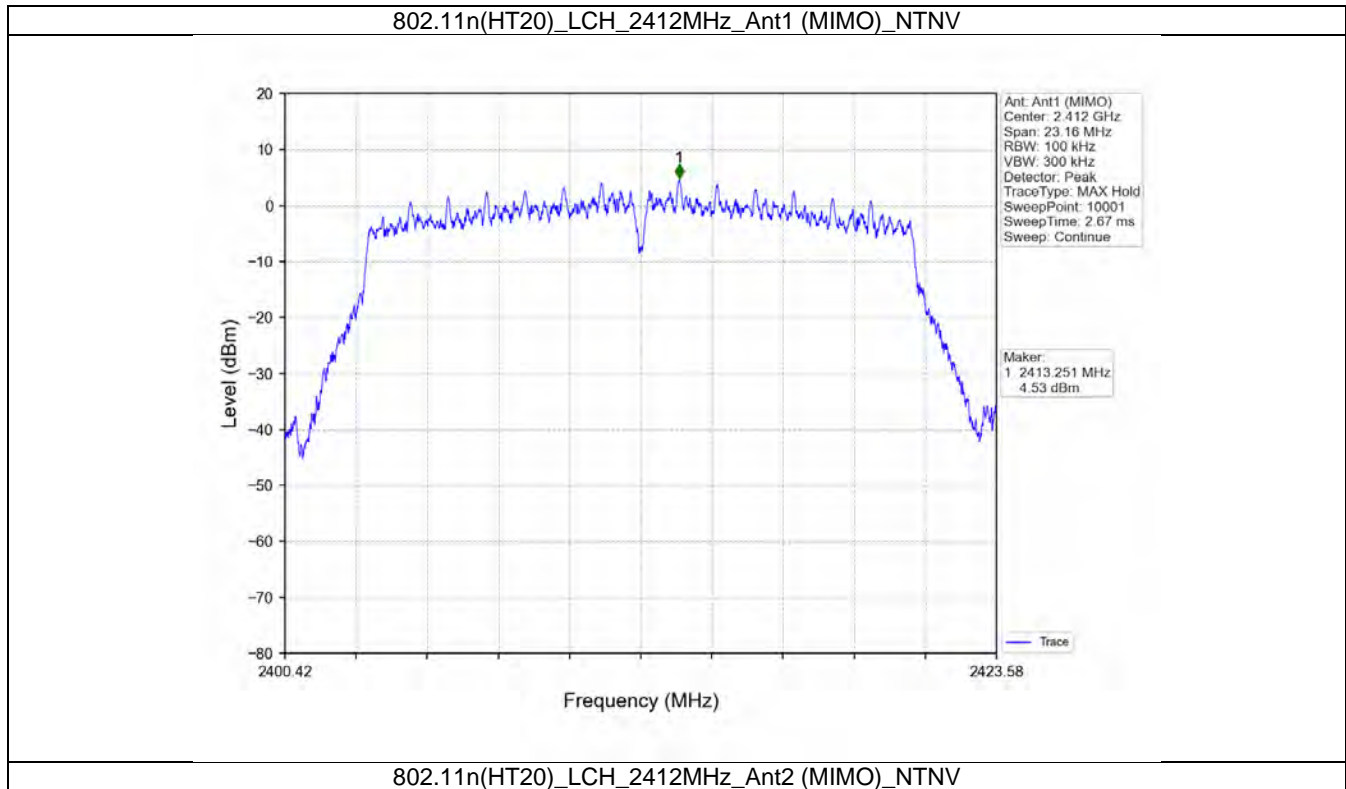
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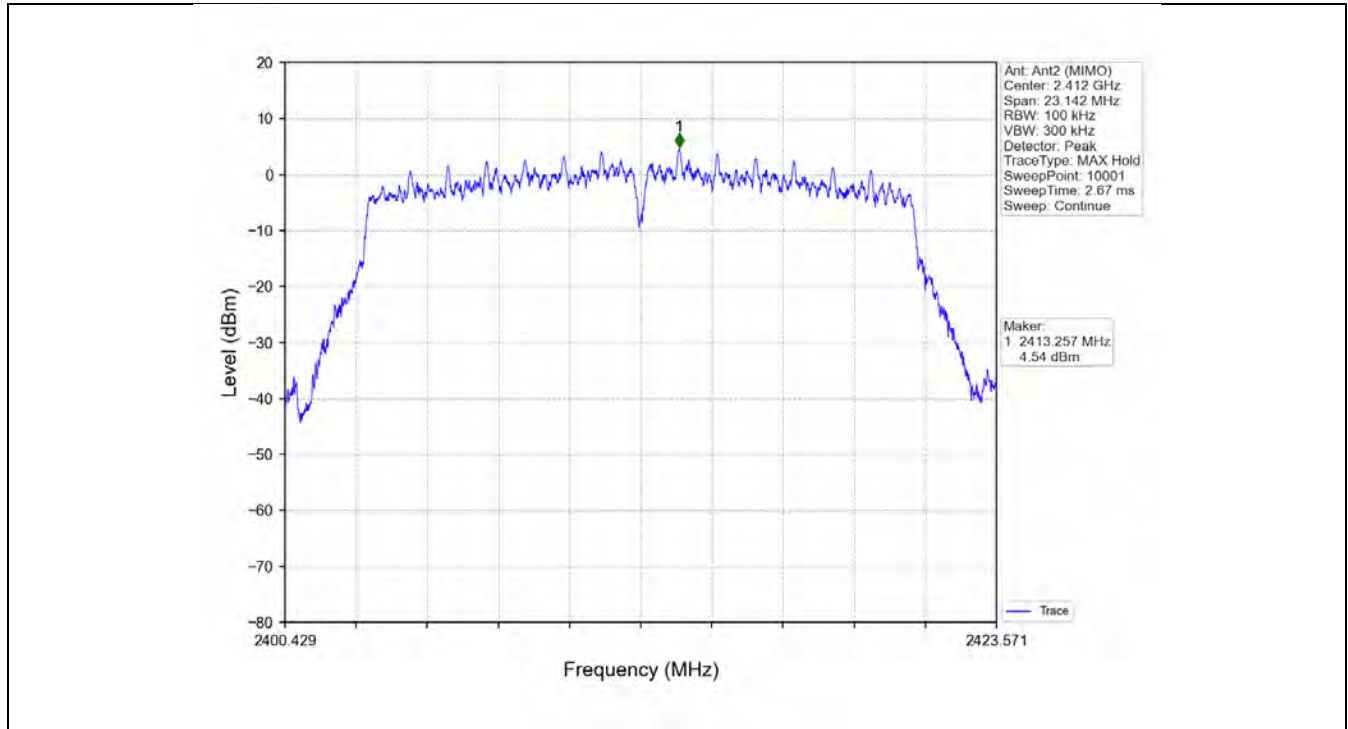


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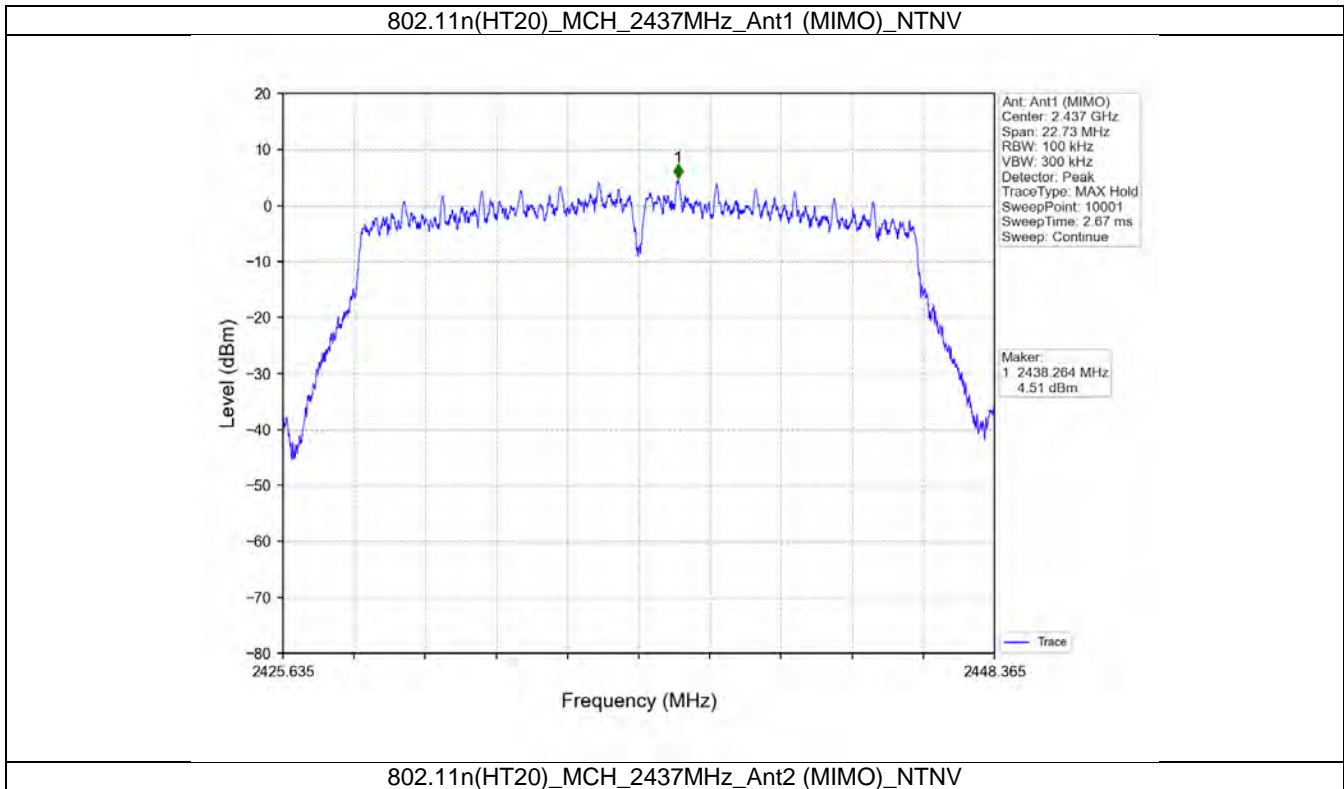


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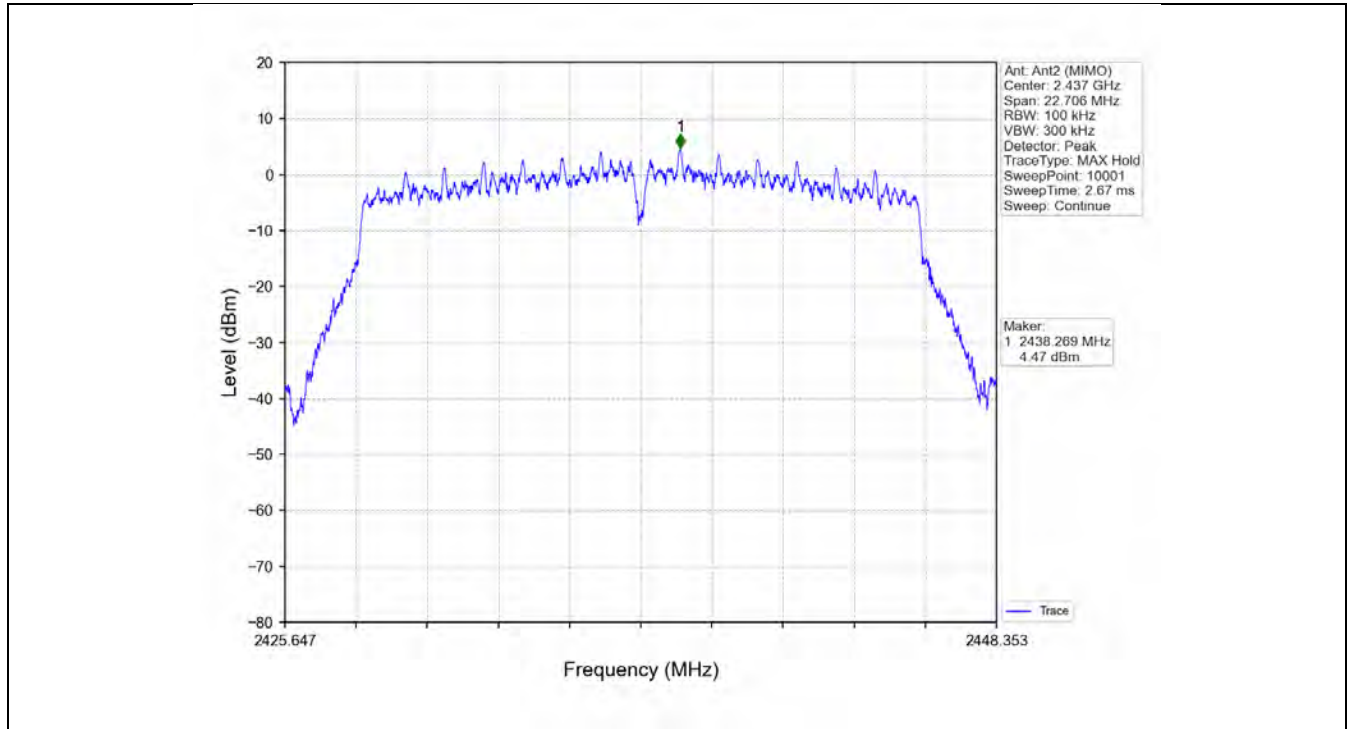


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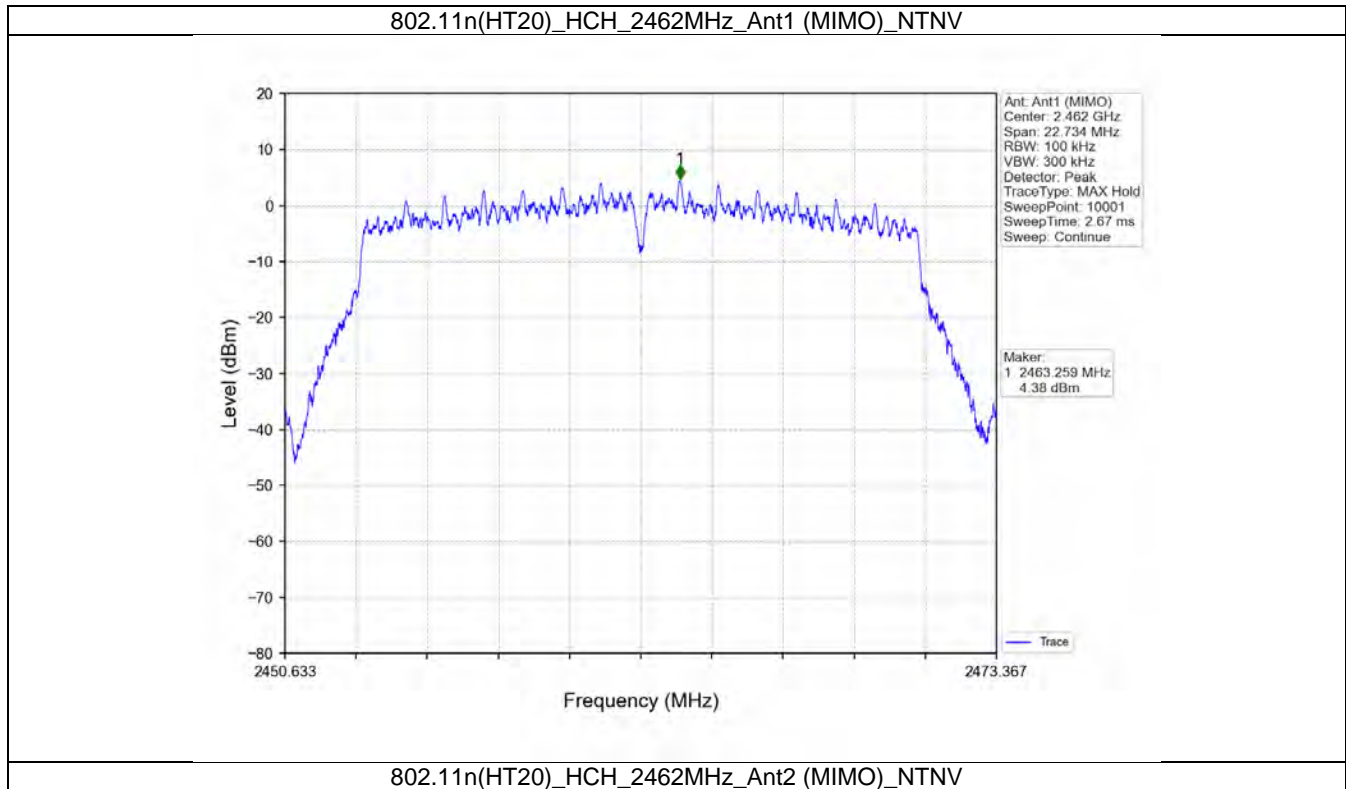


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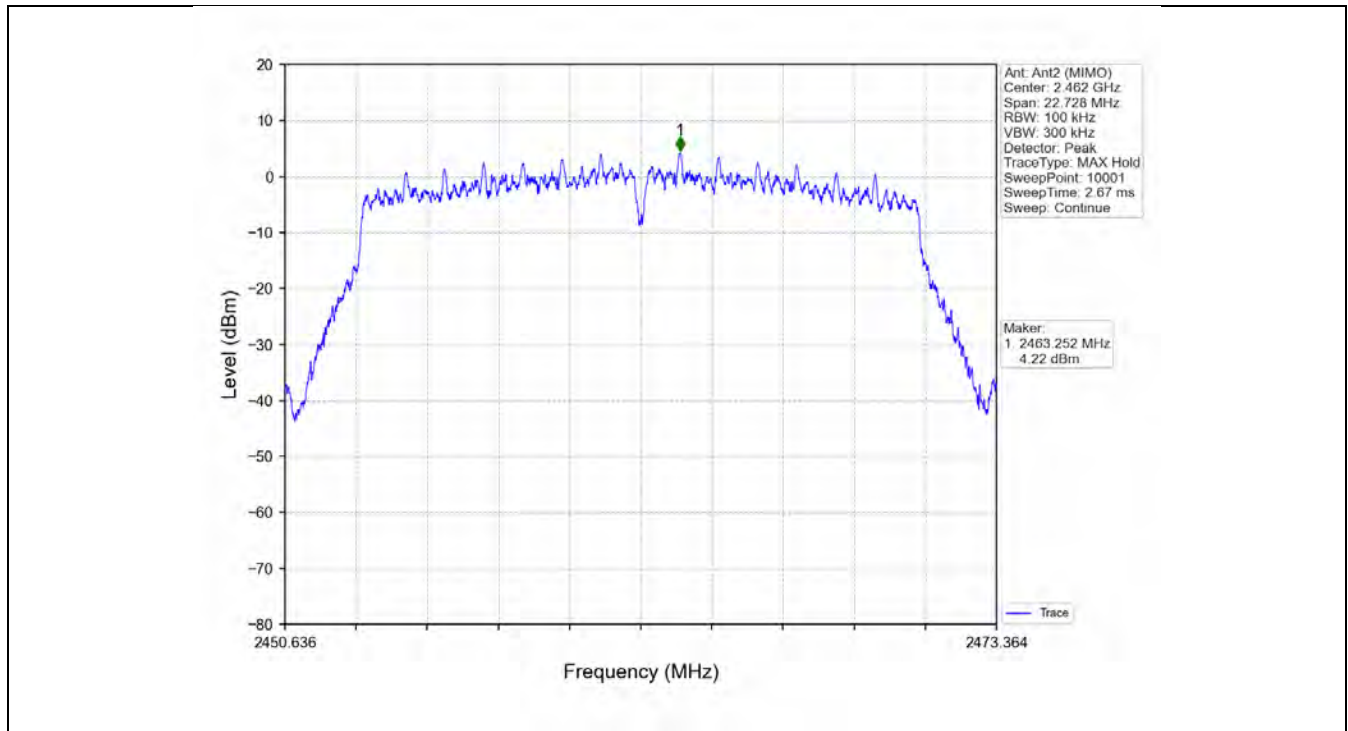


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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.73	-21.27	Pass
			2	9.06	-20.94	Pass
		2437	1	8.73	-21.27	Pass
			2	9.06	-20.94	Pass
		2462	1	8.73	-21.27	Pass
			2	9.06	-20.94	Pass
802.11g	SISO	2412	1	8.00	-22.00	Pass
			2	7.87	-22.13	Pass
		2437	1	8.00	-22.00	Pass
			2	7.87	-22.13	Pass
		2462	1	8.00	-22.00	Pass
			2	7.87	-22.13	Pass
802.11n (HT20)	MIMO	2412	1	4.53	-25.47	Pass
			2	4.54	-25.46	Pass
		2437	1	4.53	-25.47	Pass
			2	4.54	-25.46	Pass
		2462	1	4.53	-25.47	Pass
			2	4.54	-25.46	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.

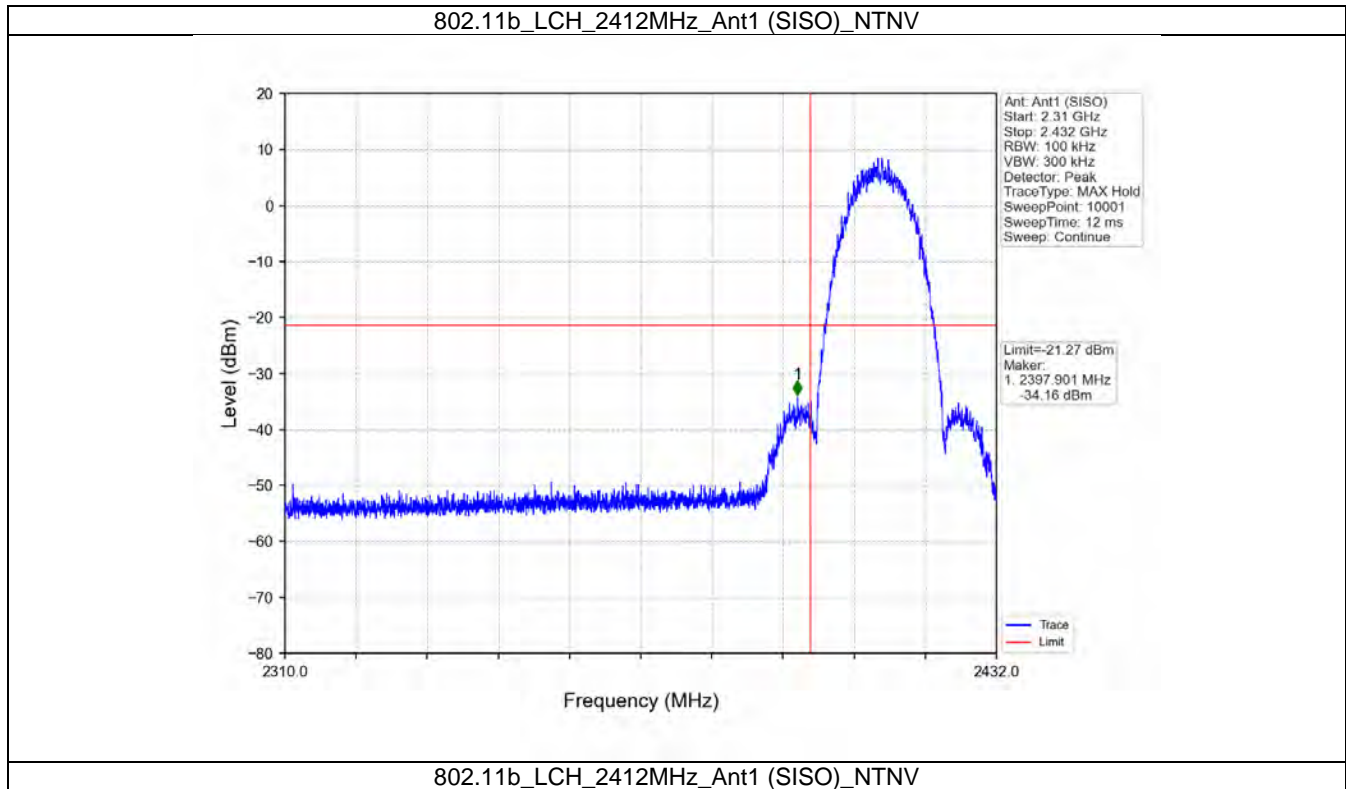


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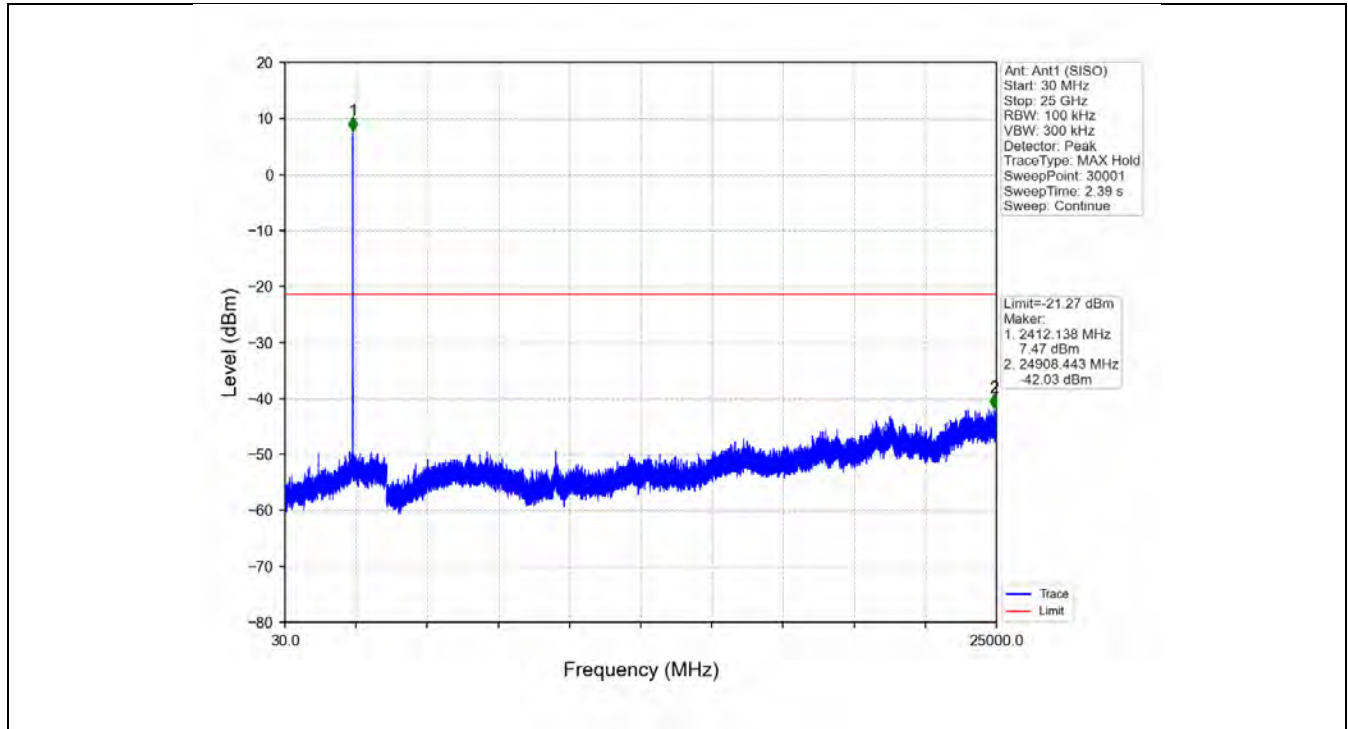
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5.2.2 Test Graph



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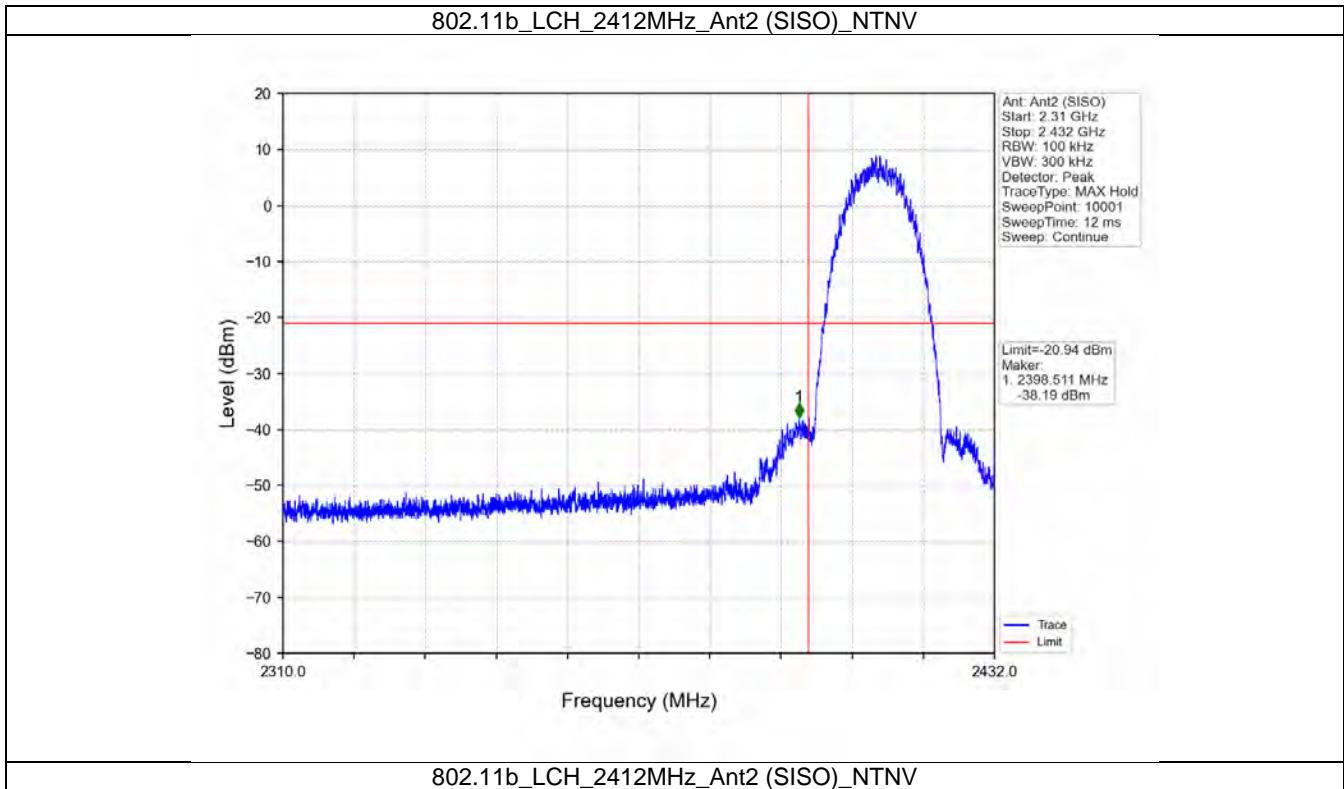


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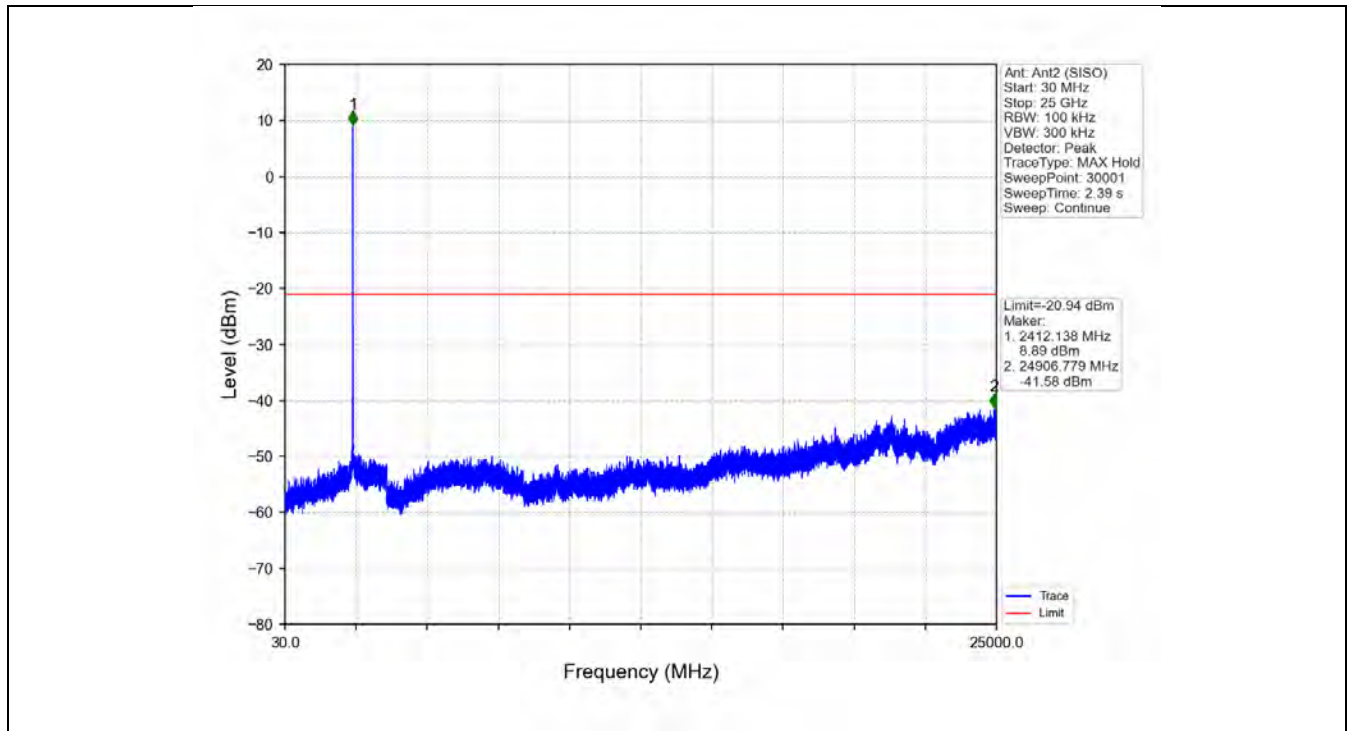


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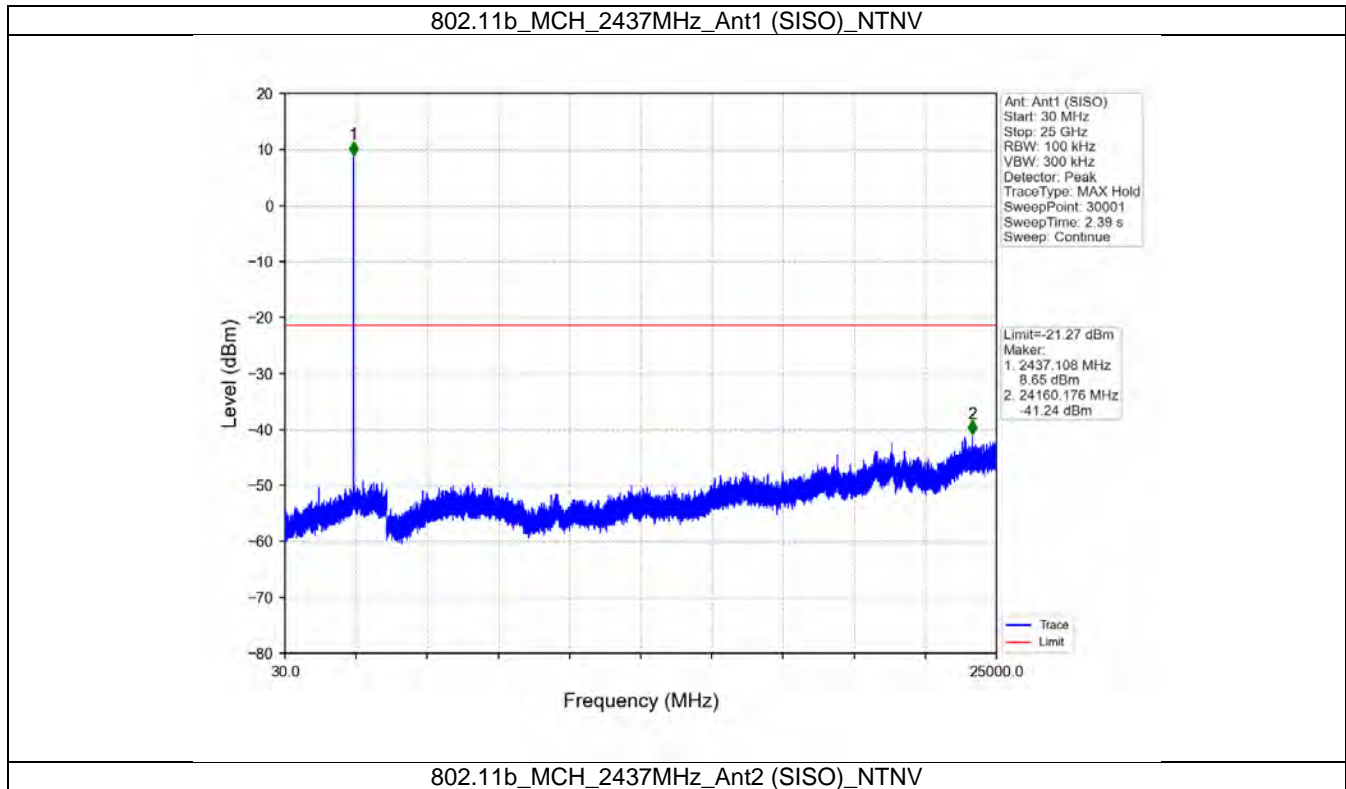


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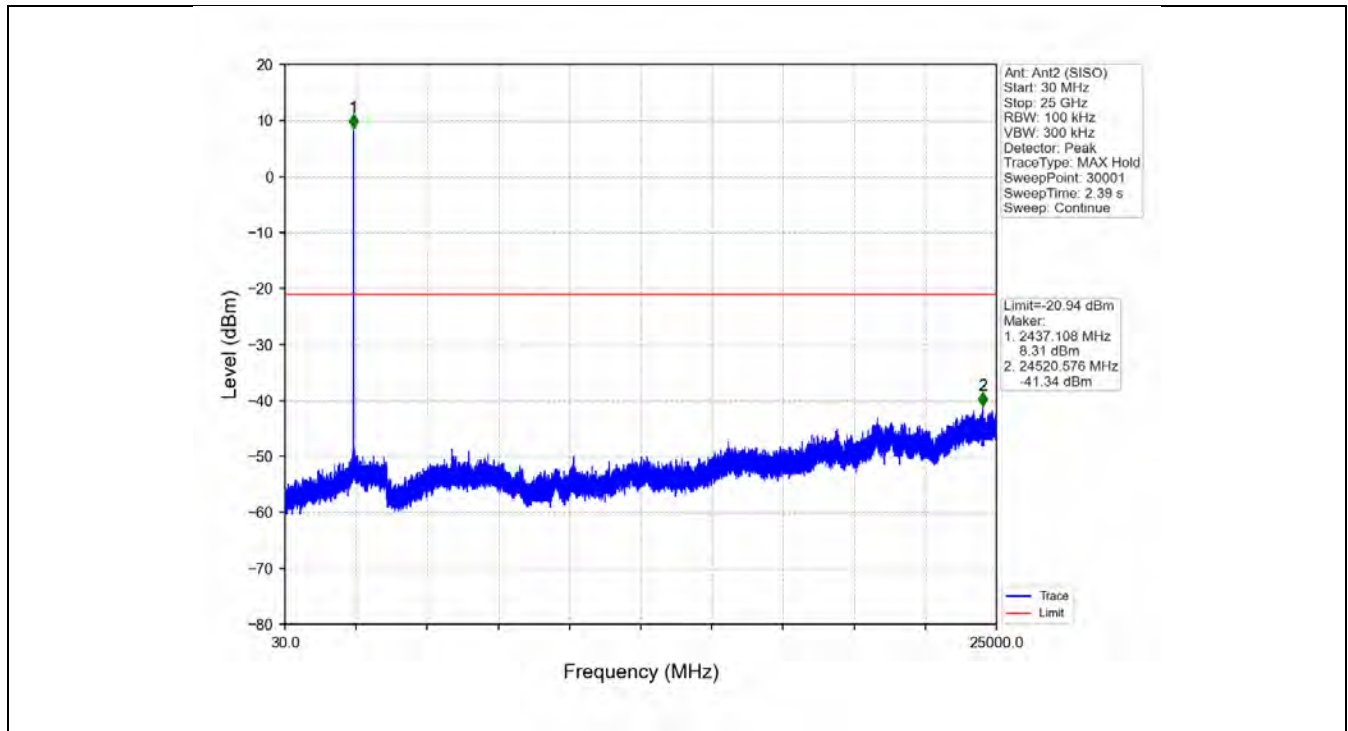


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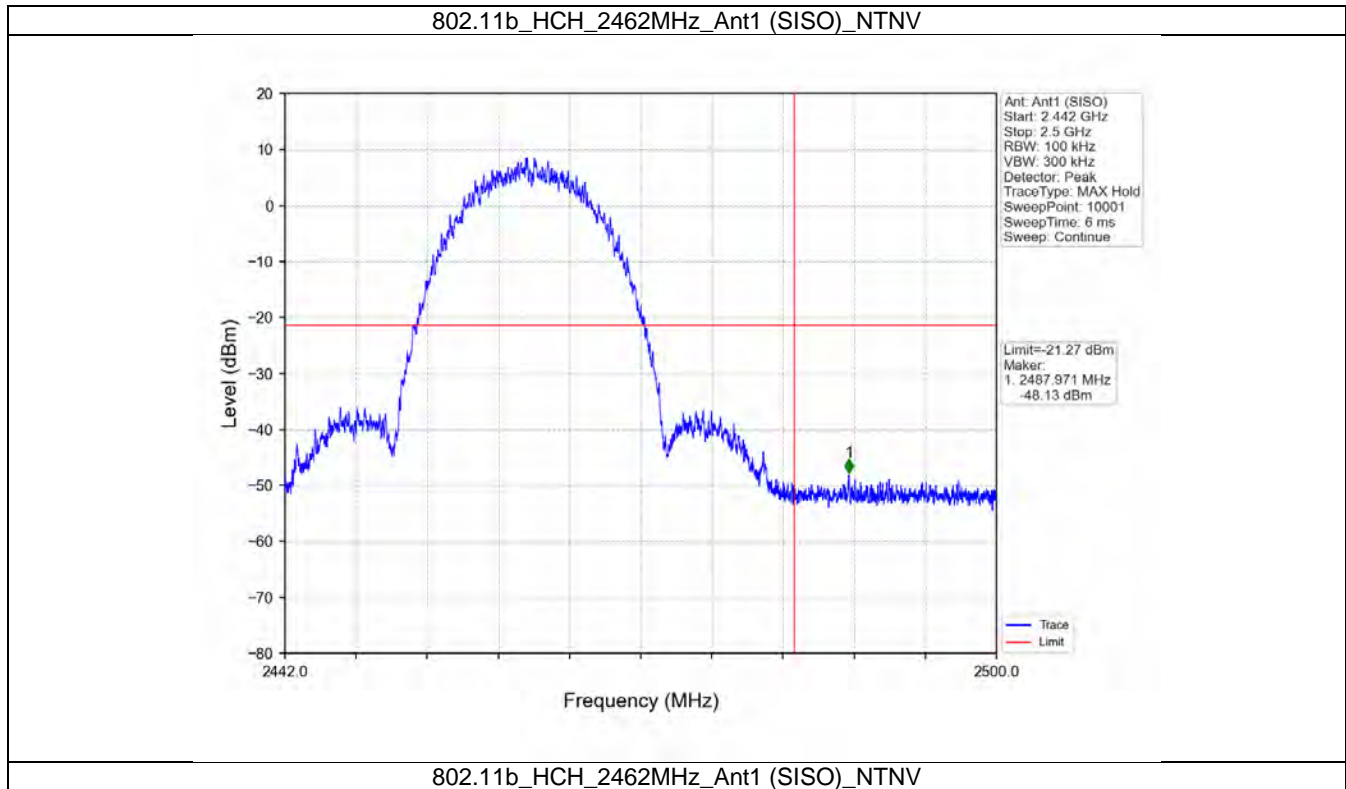


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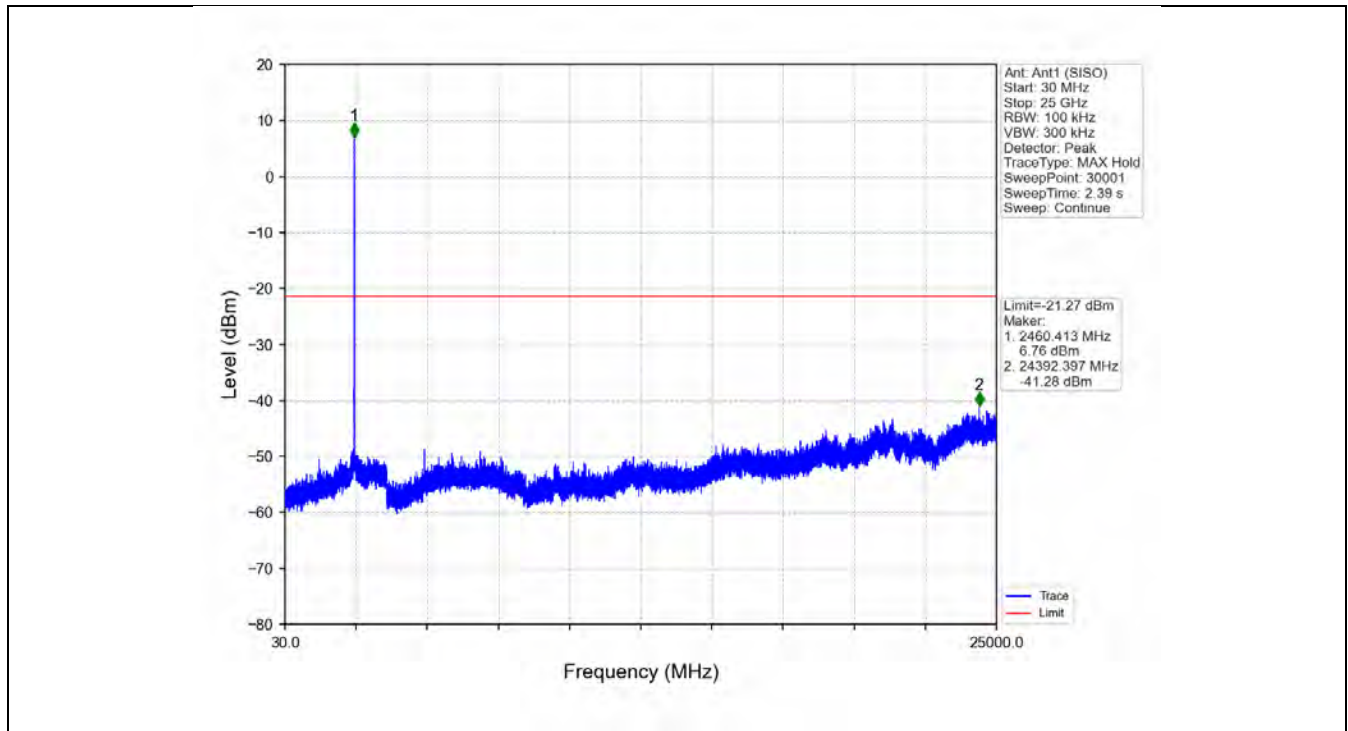


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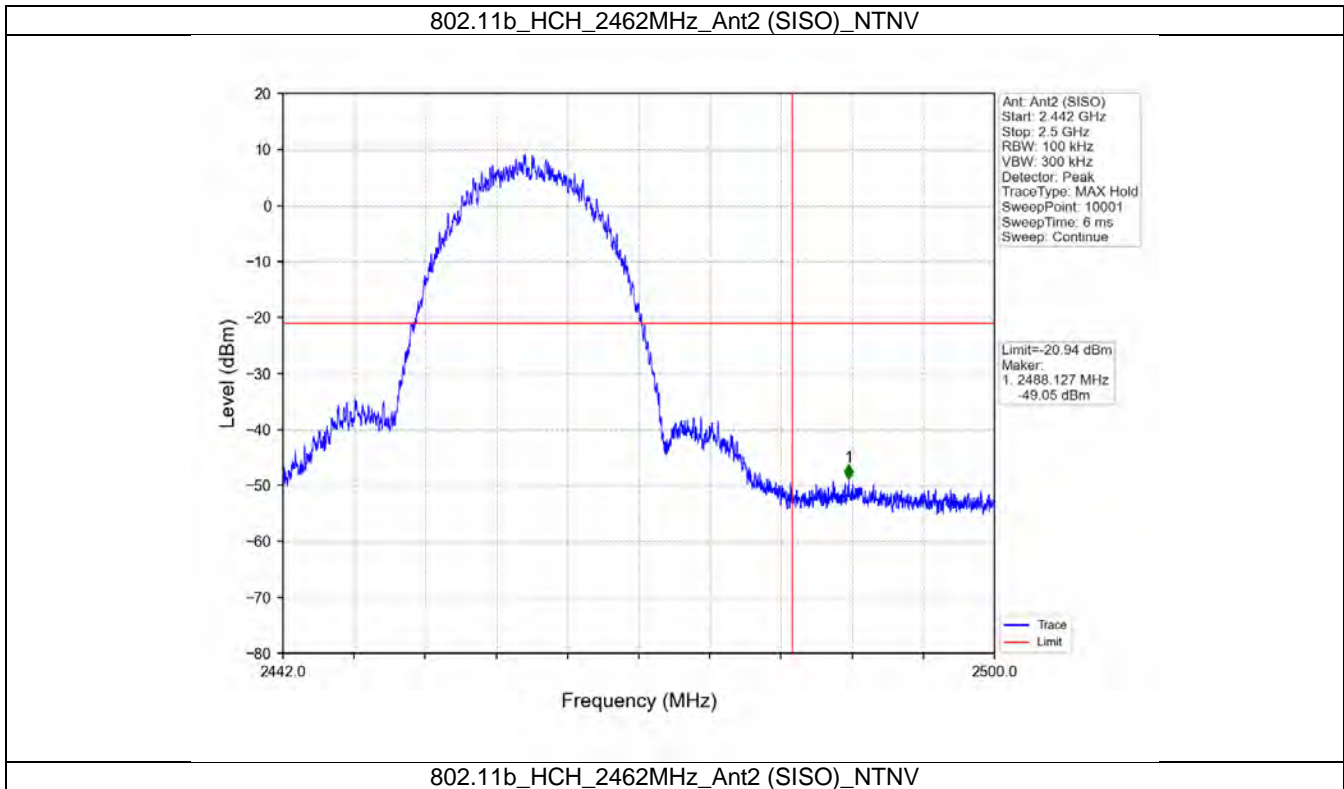


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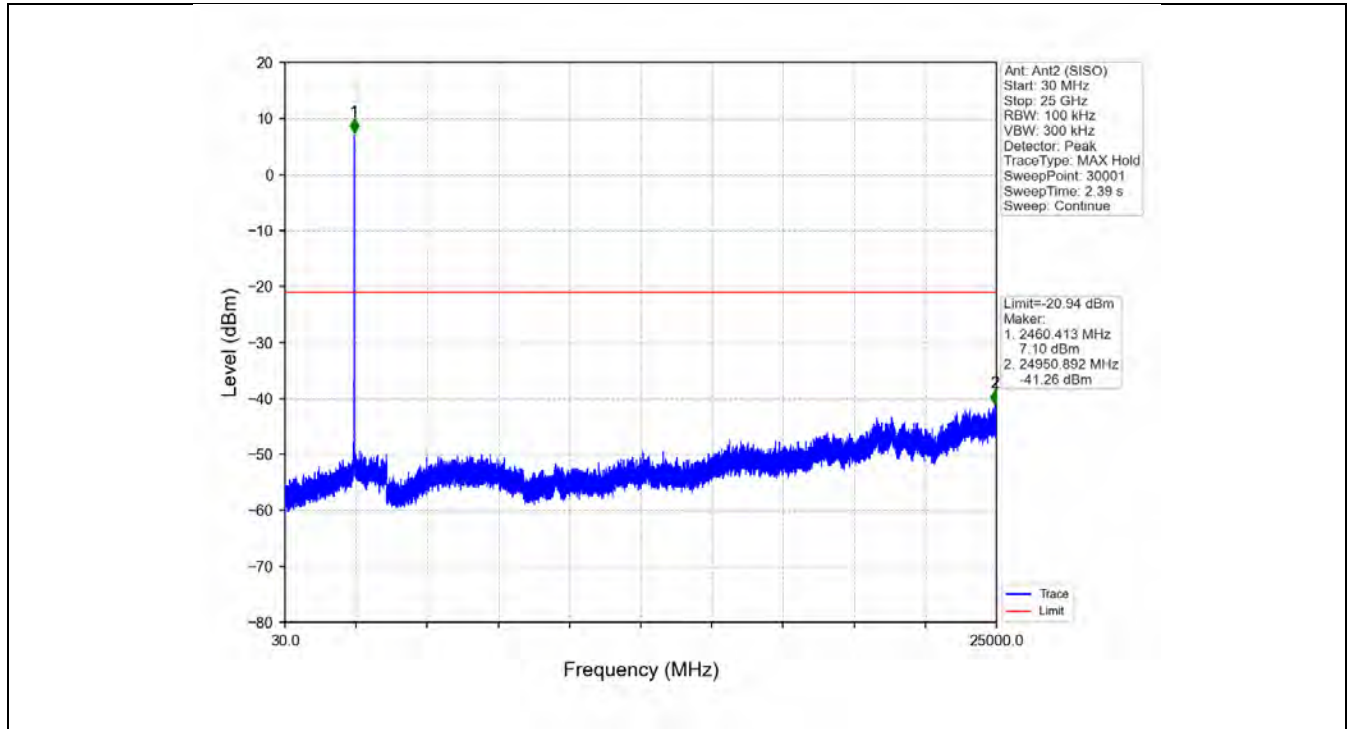


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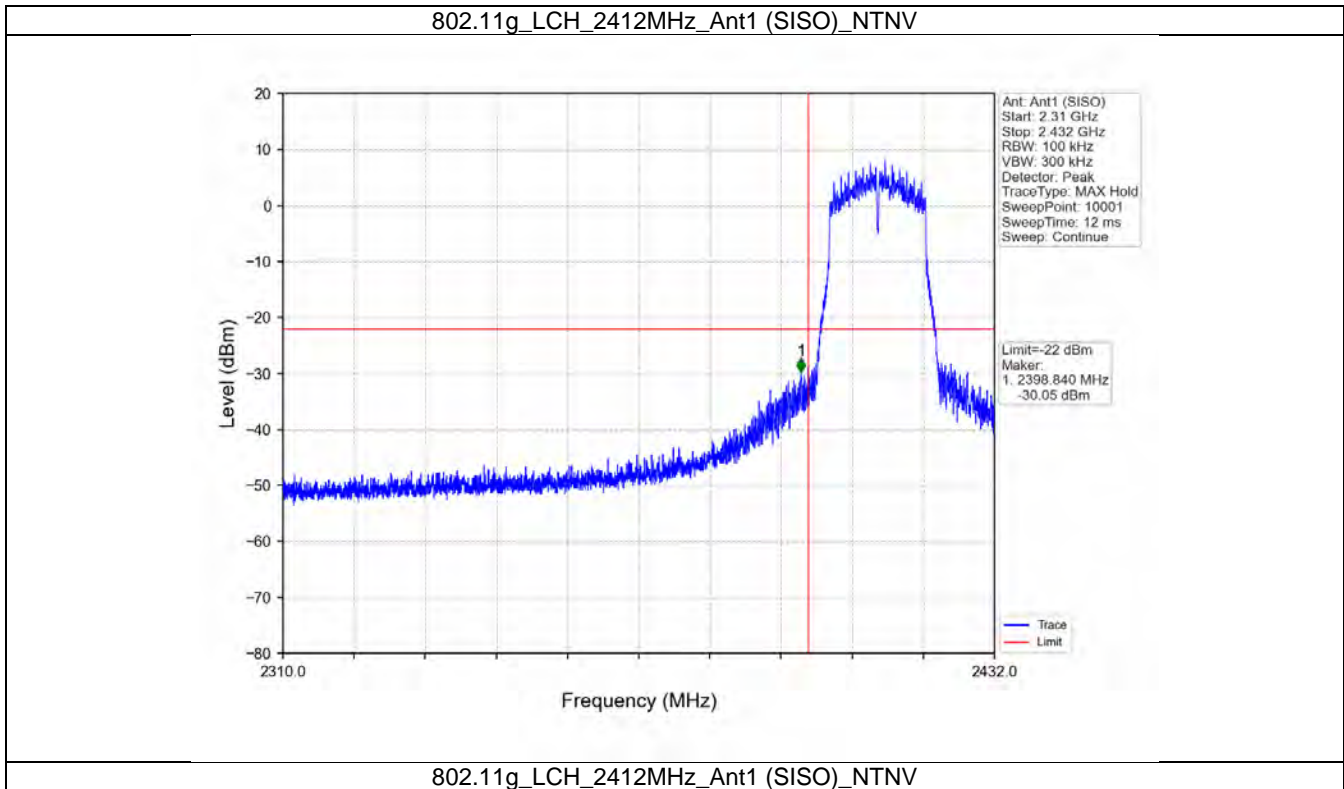


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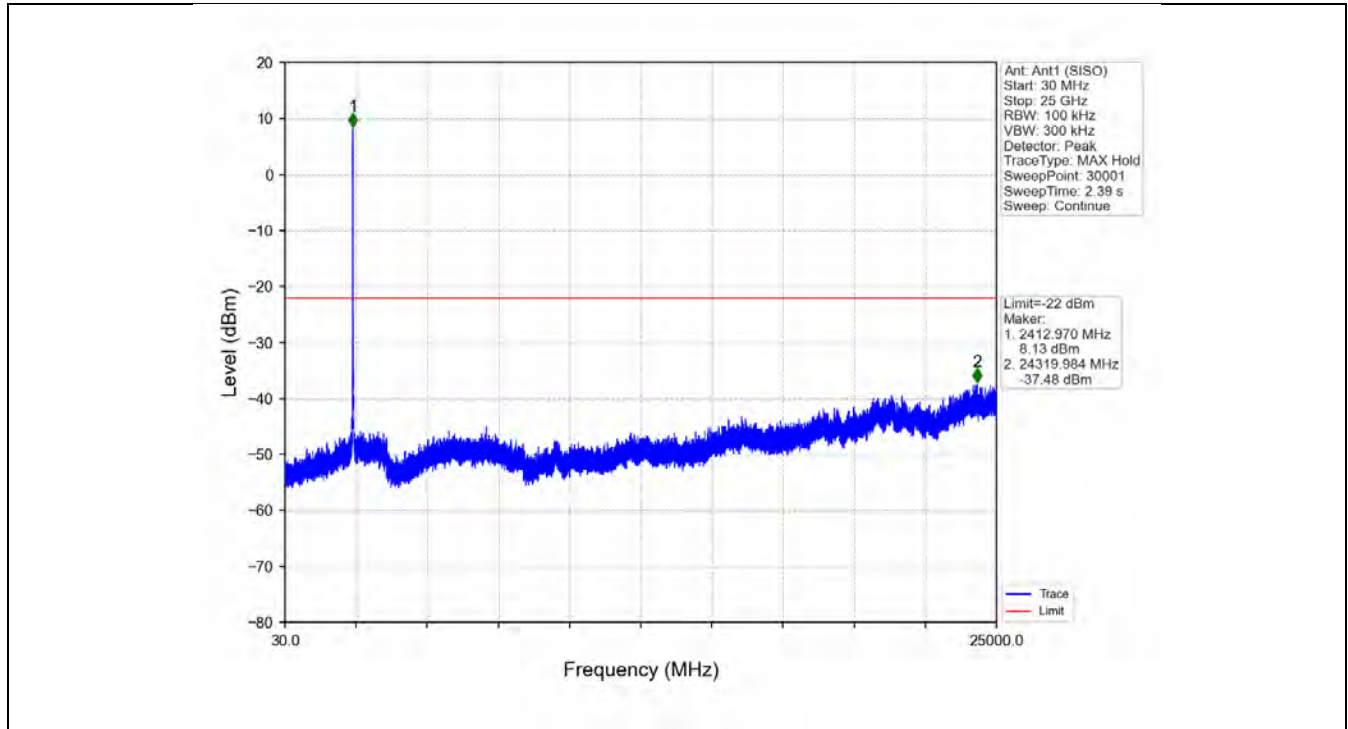


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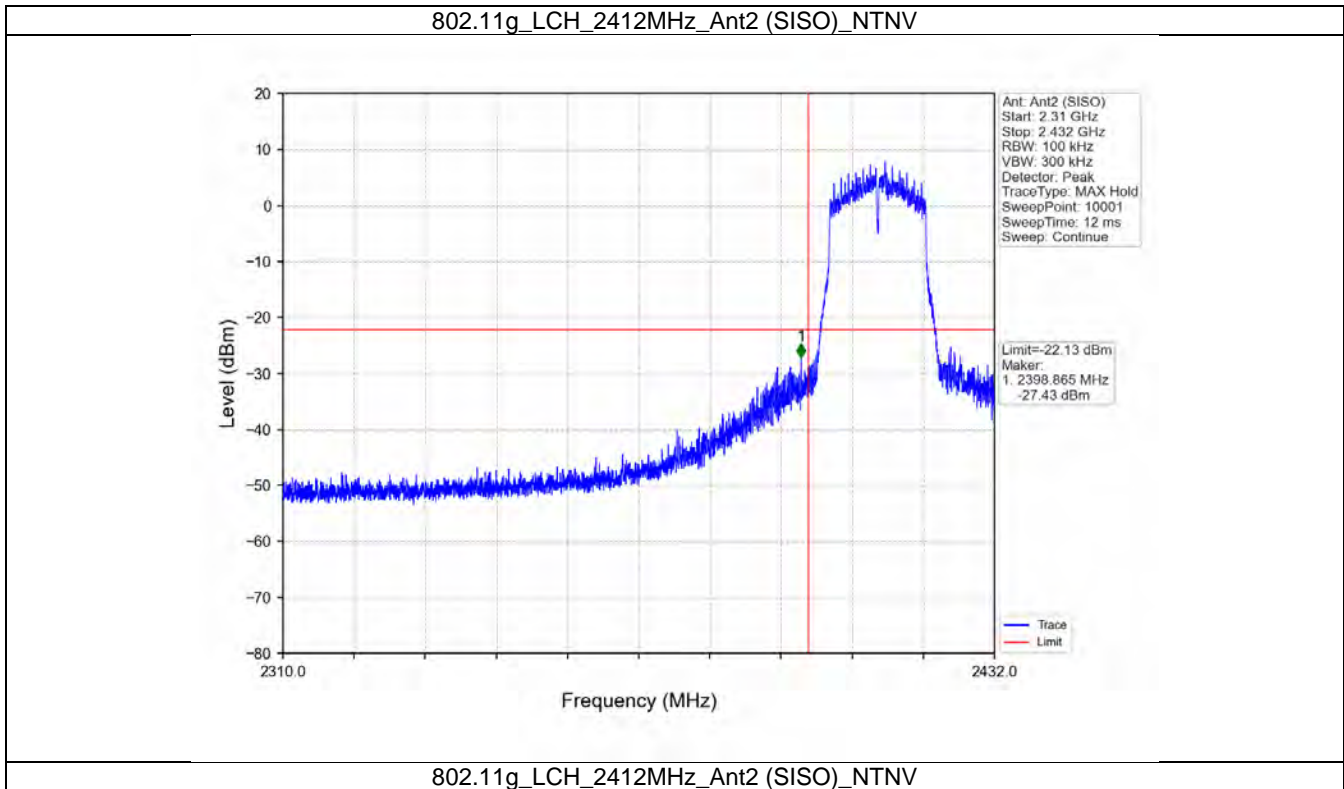


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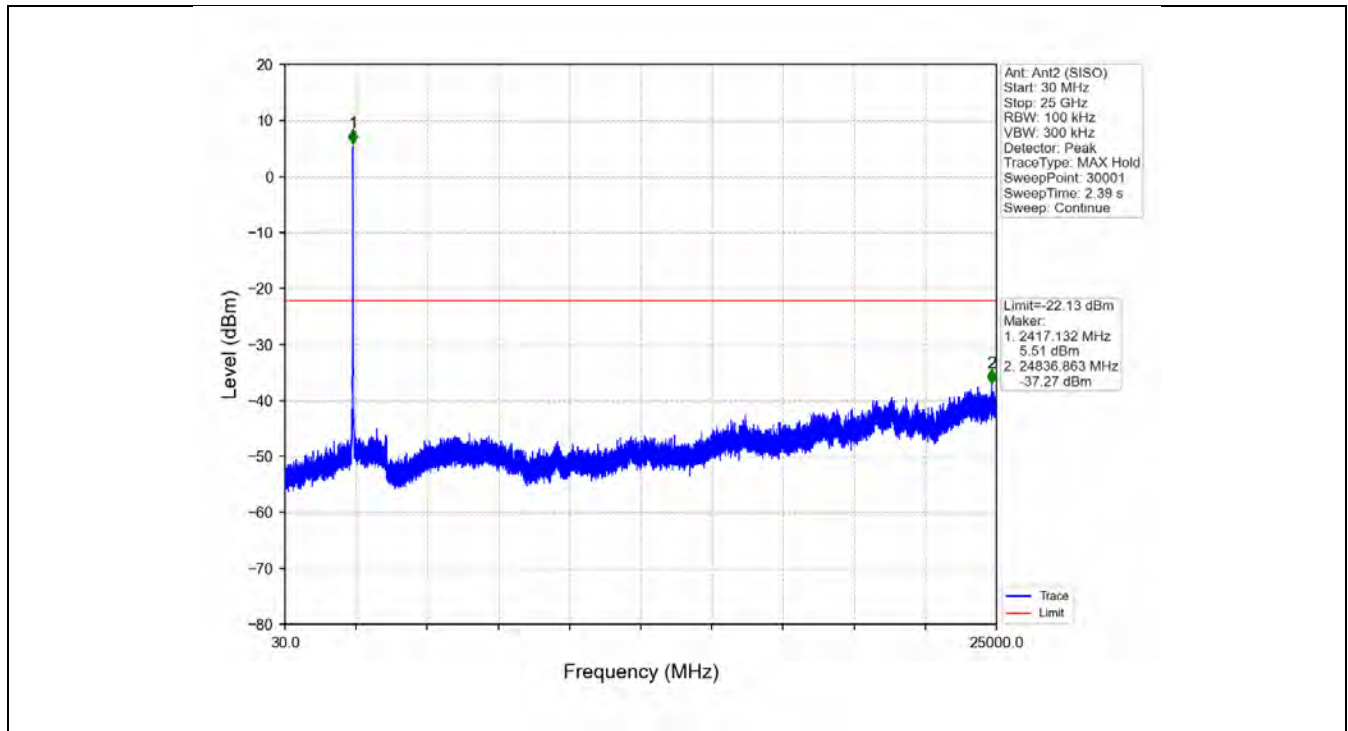


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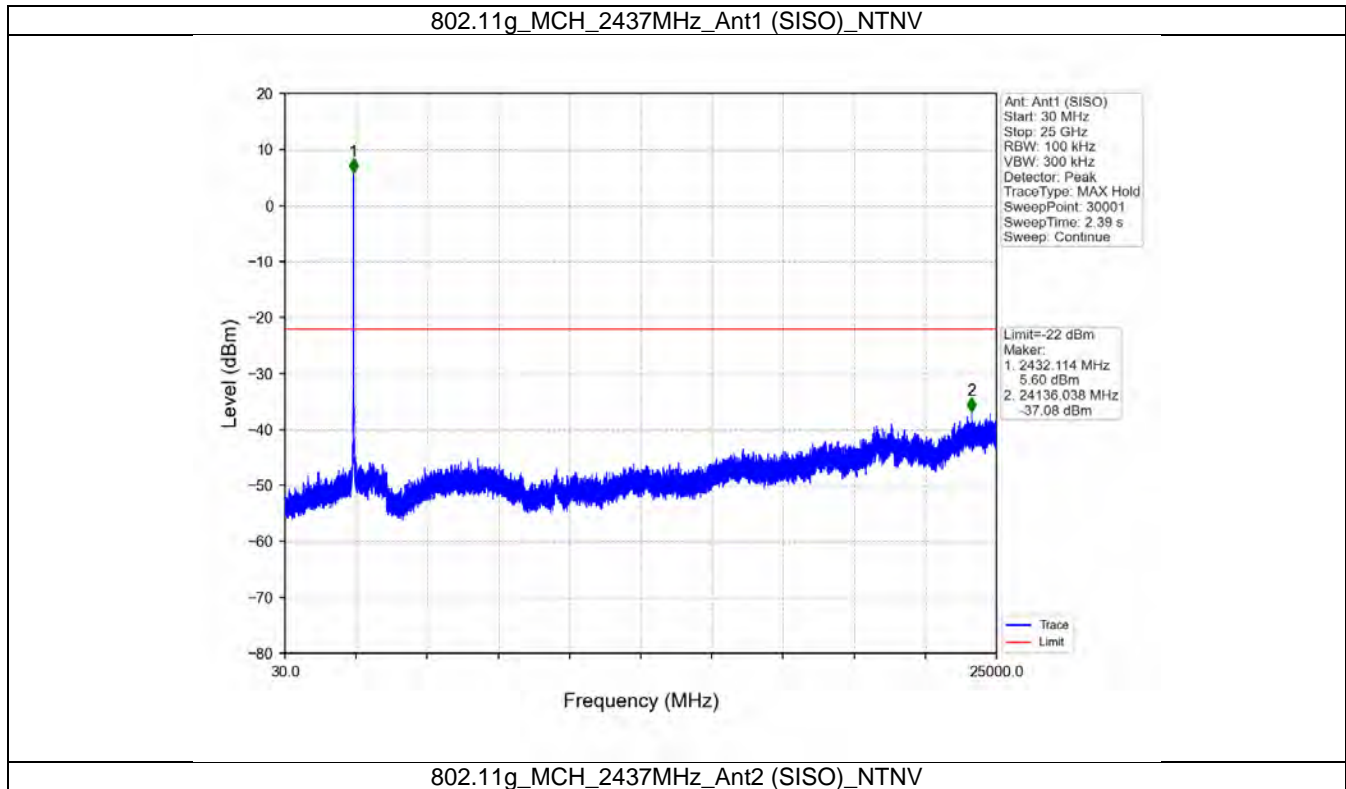


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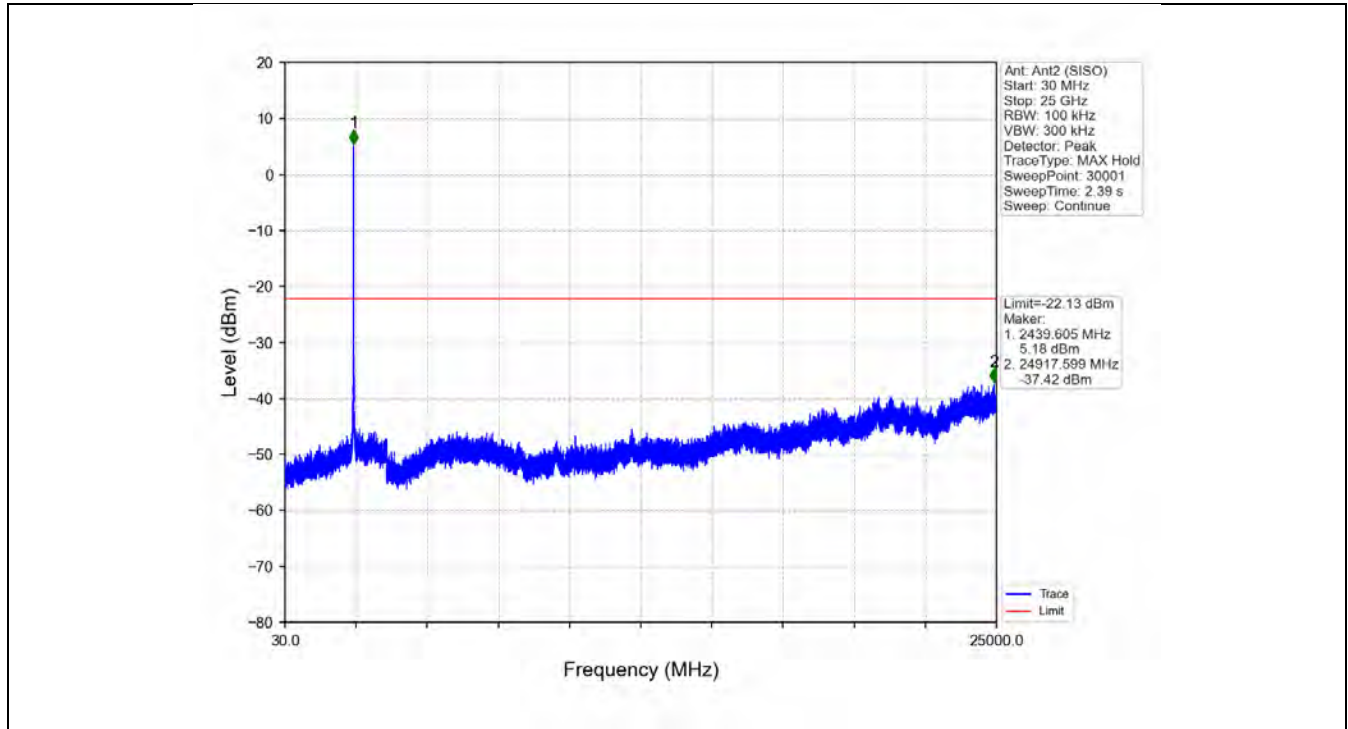


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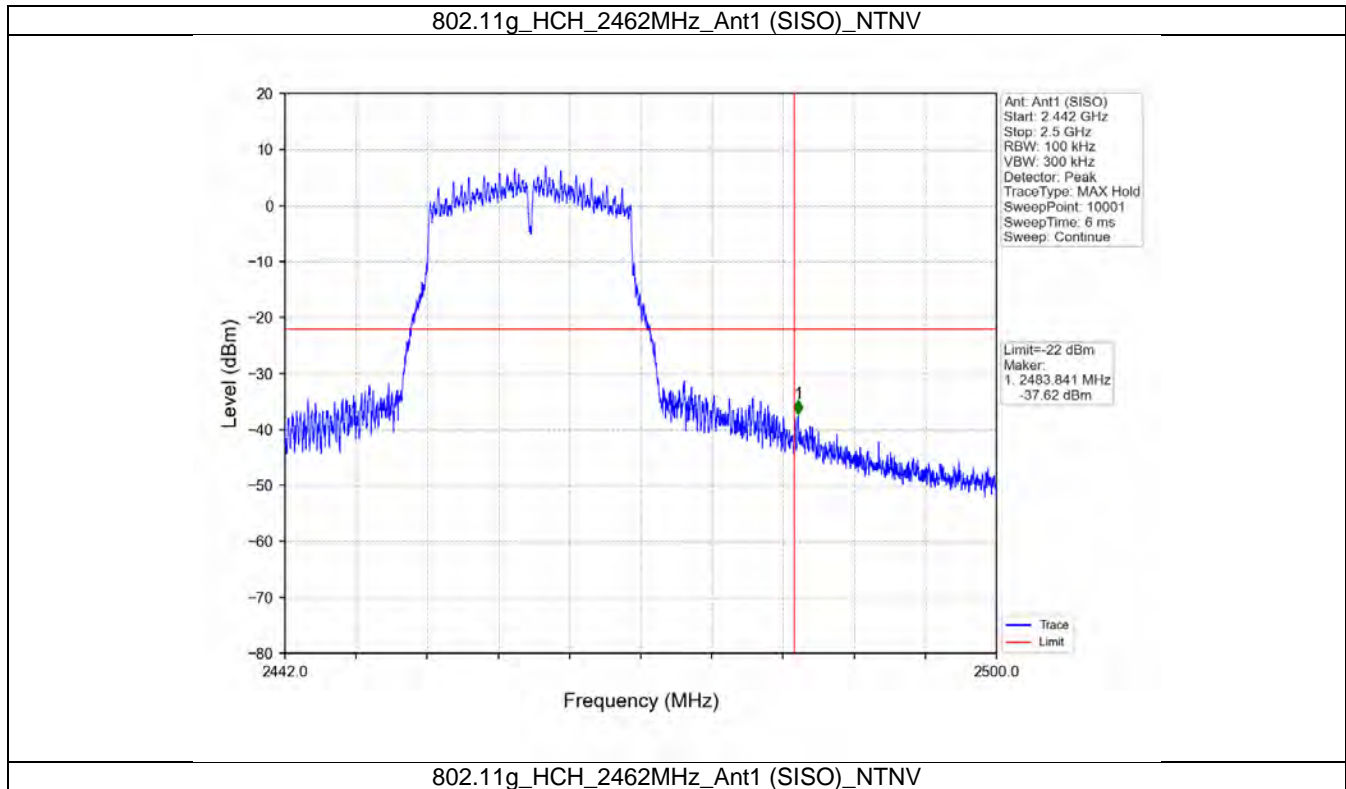
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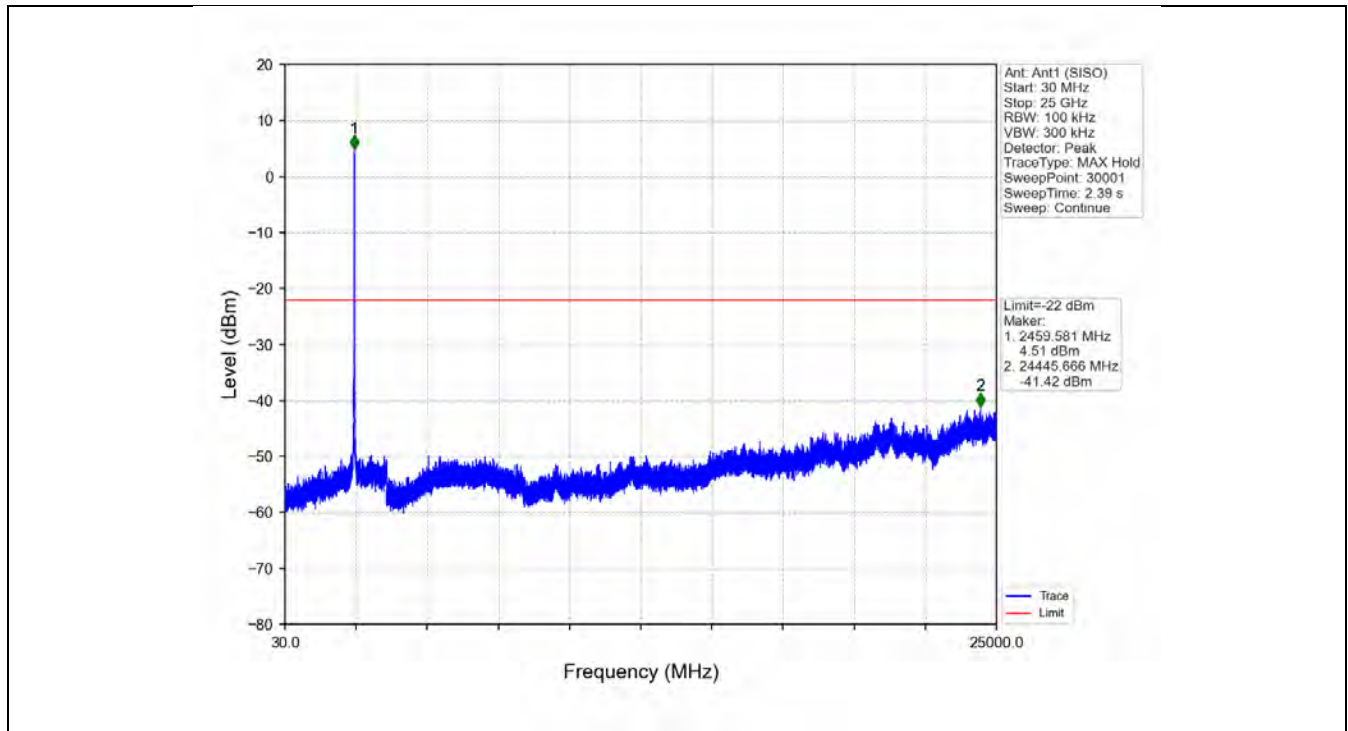


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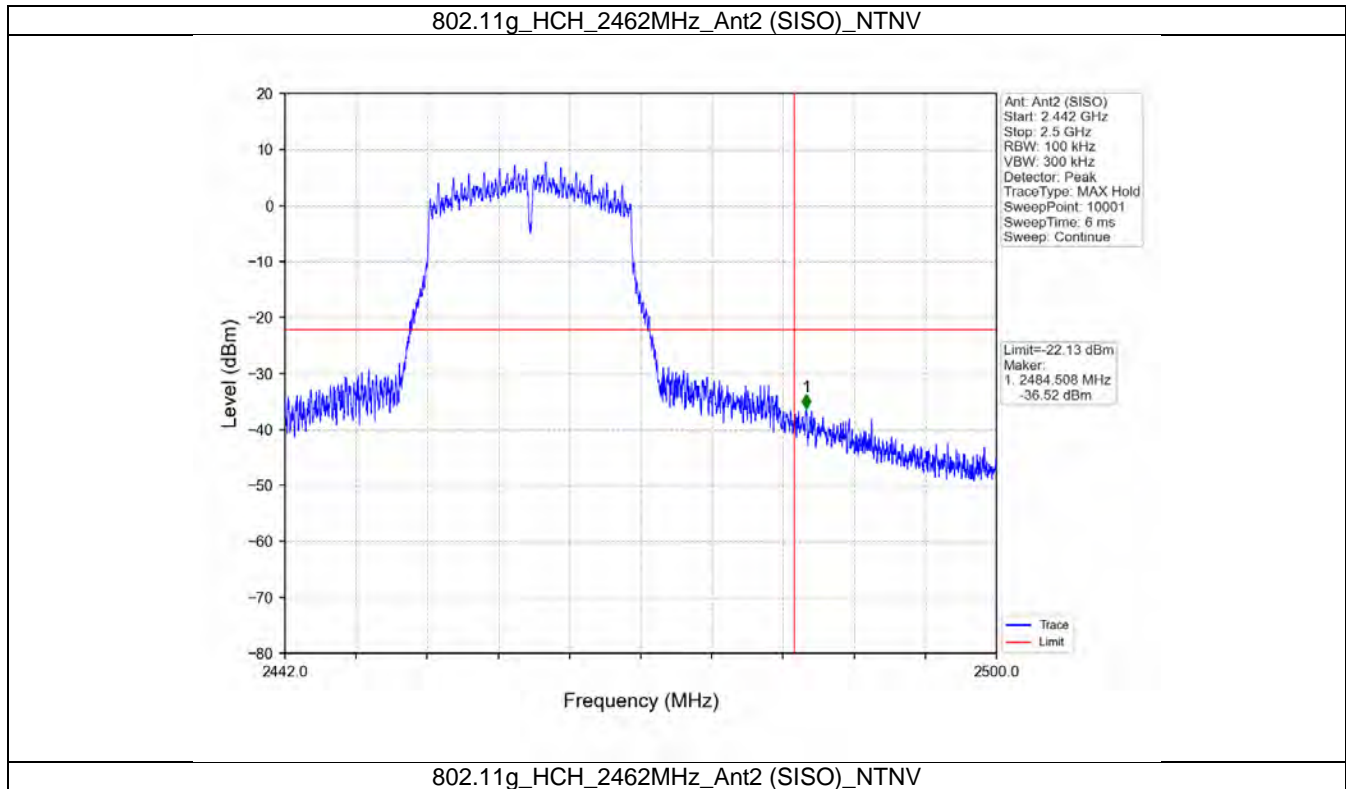


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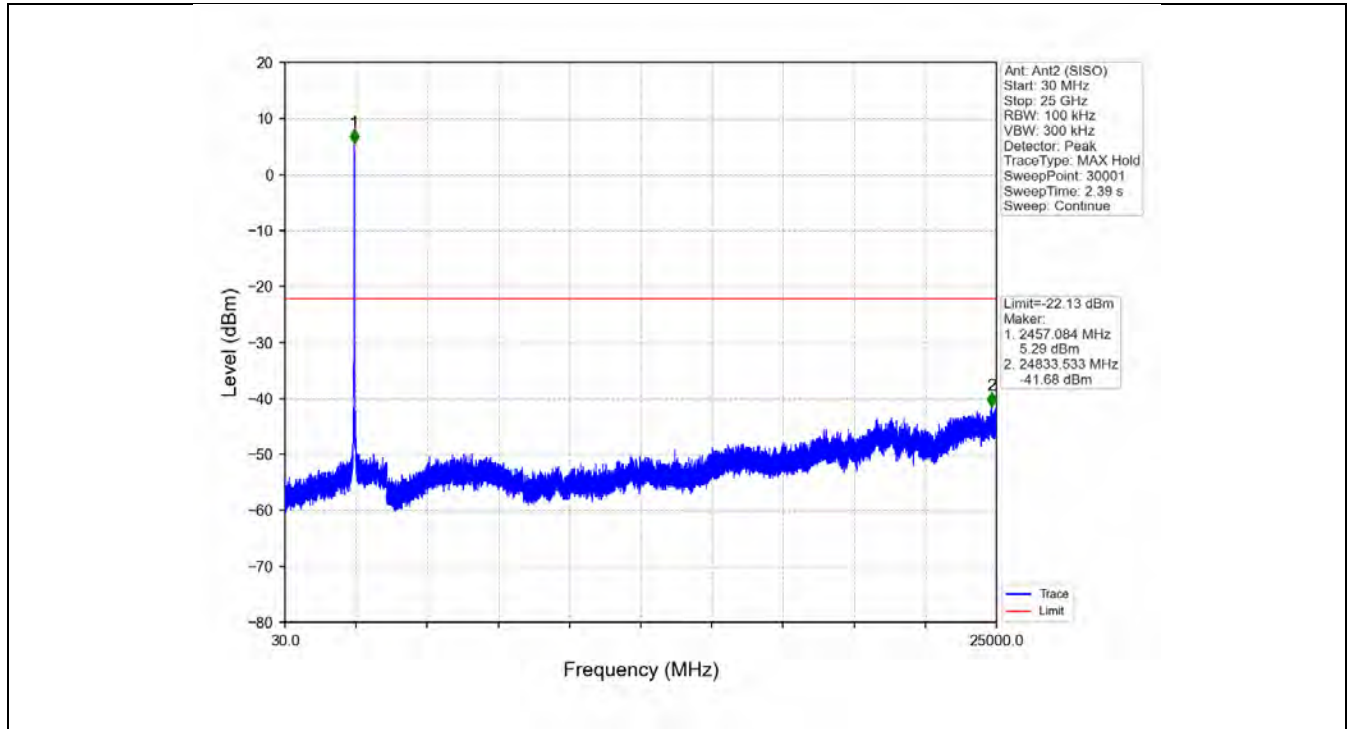


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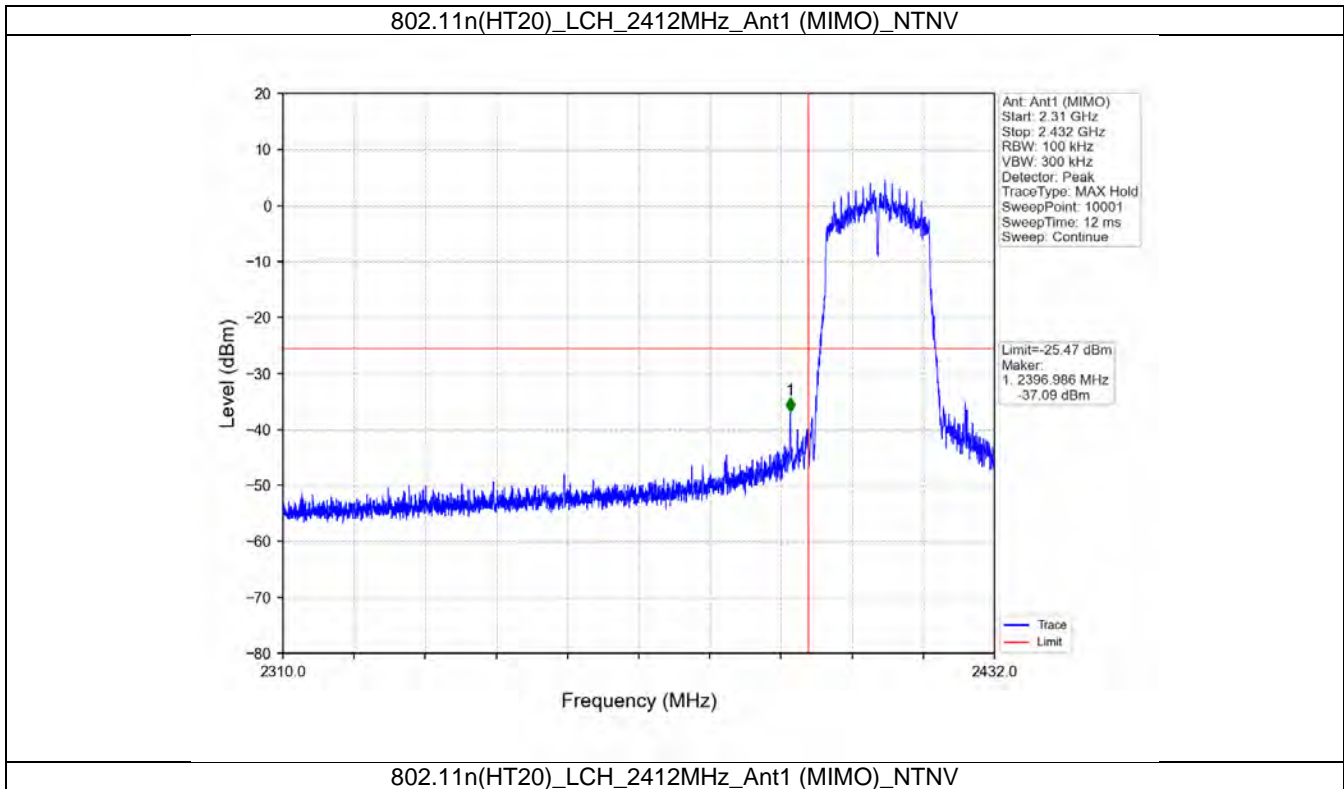
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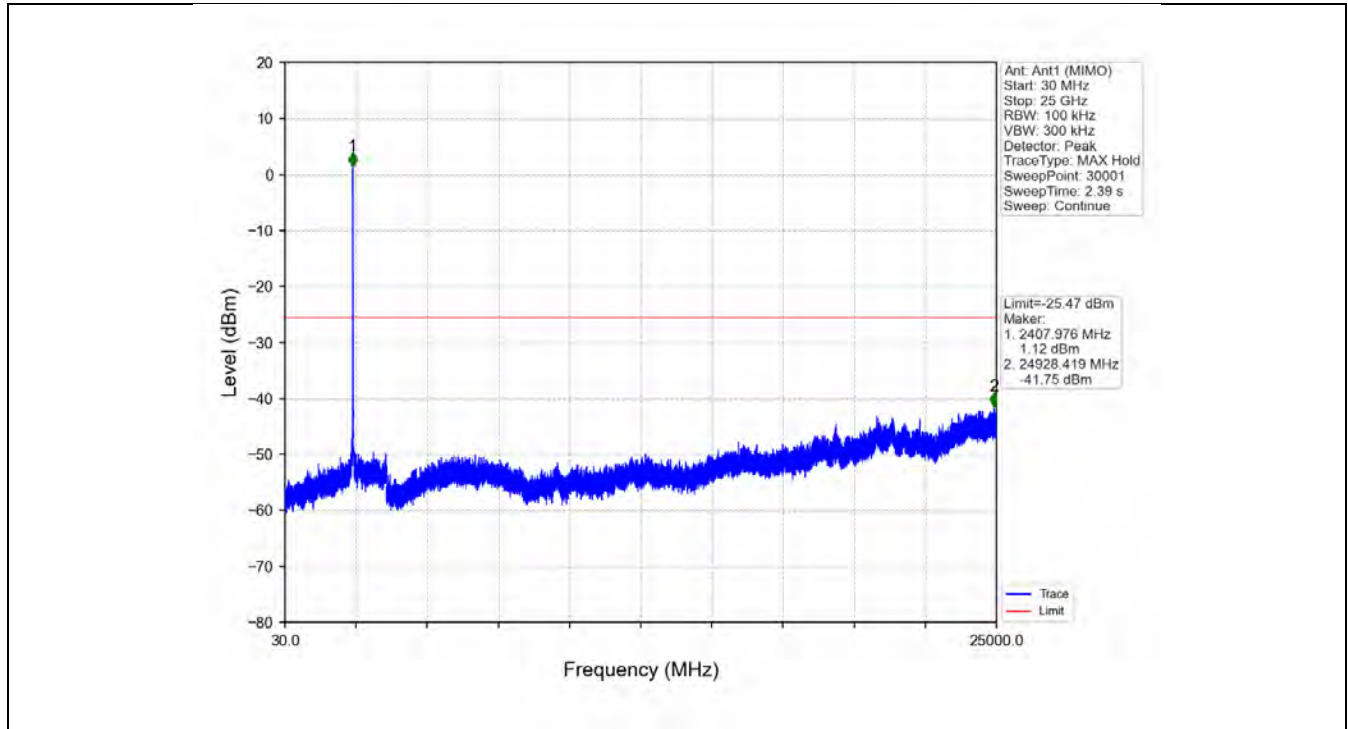


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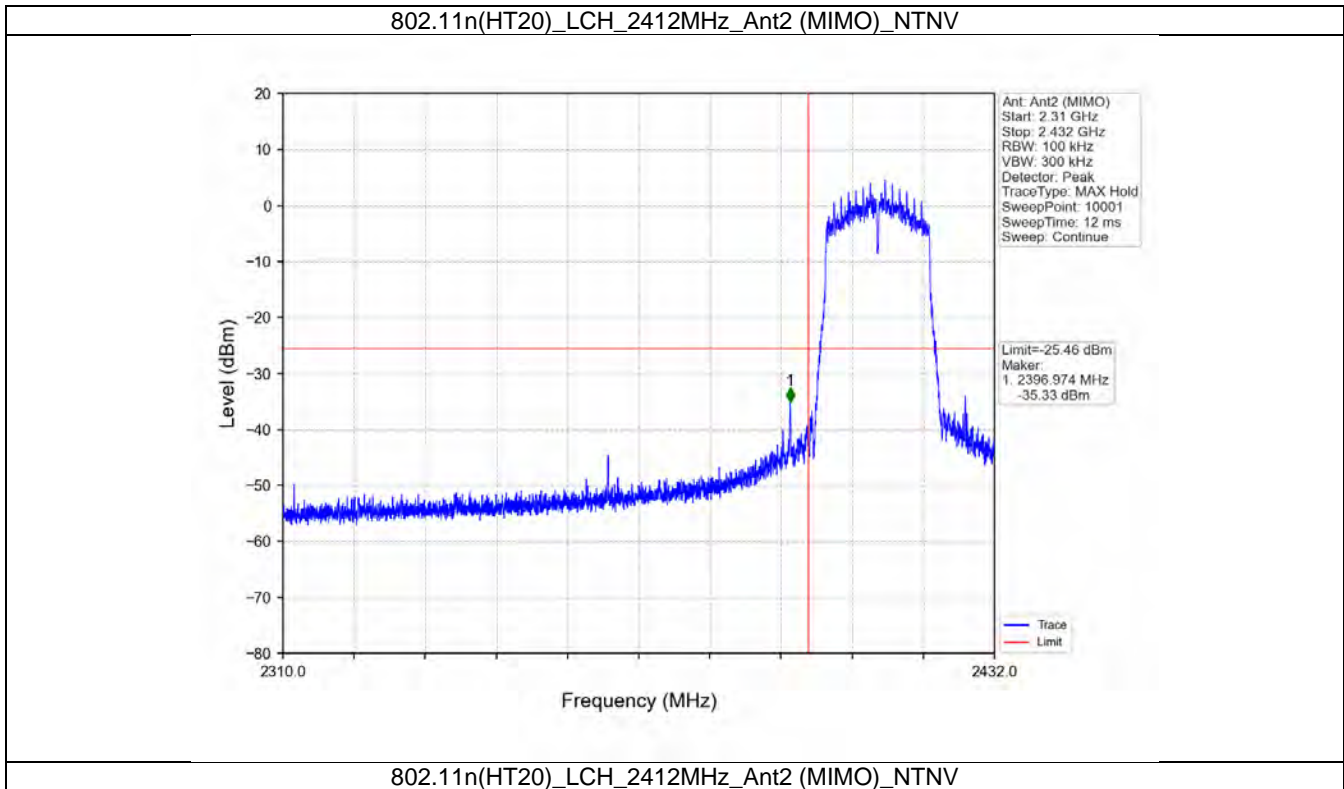


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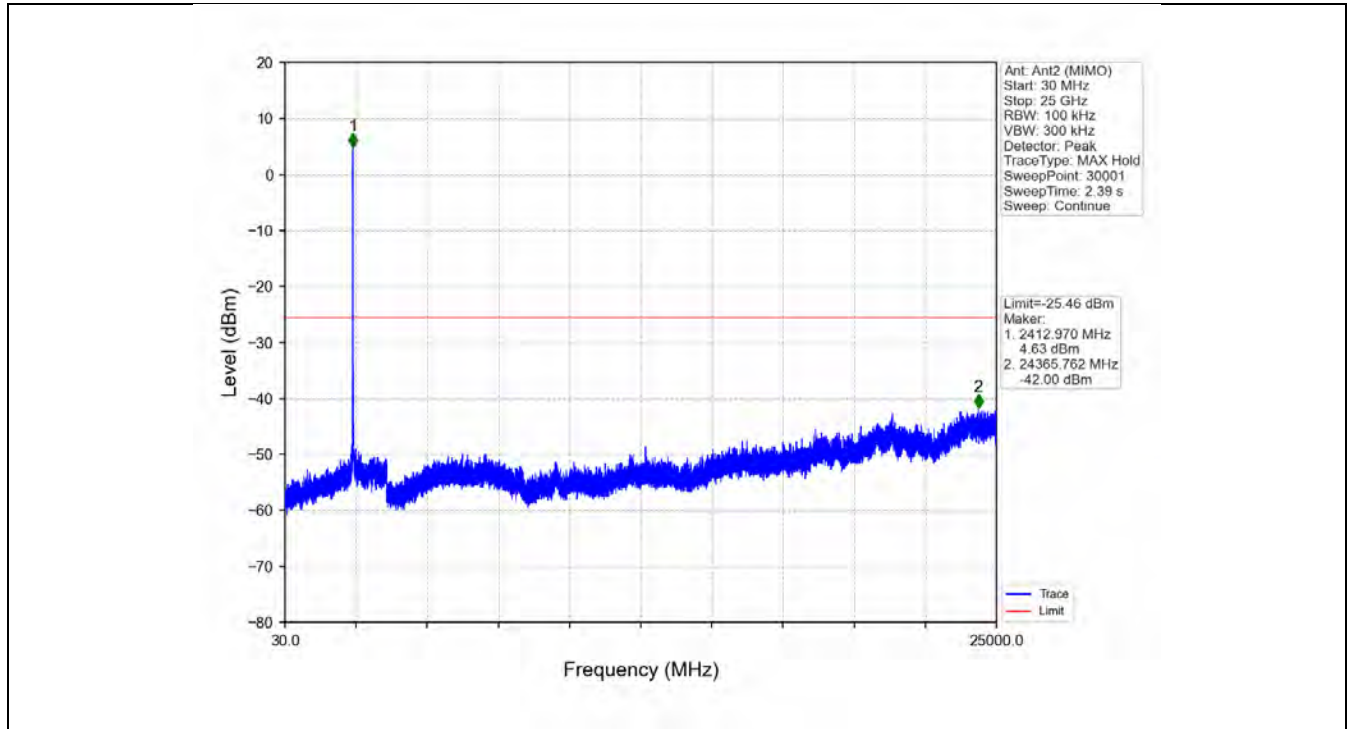


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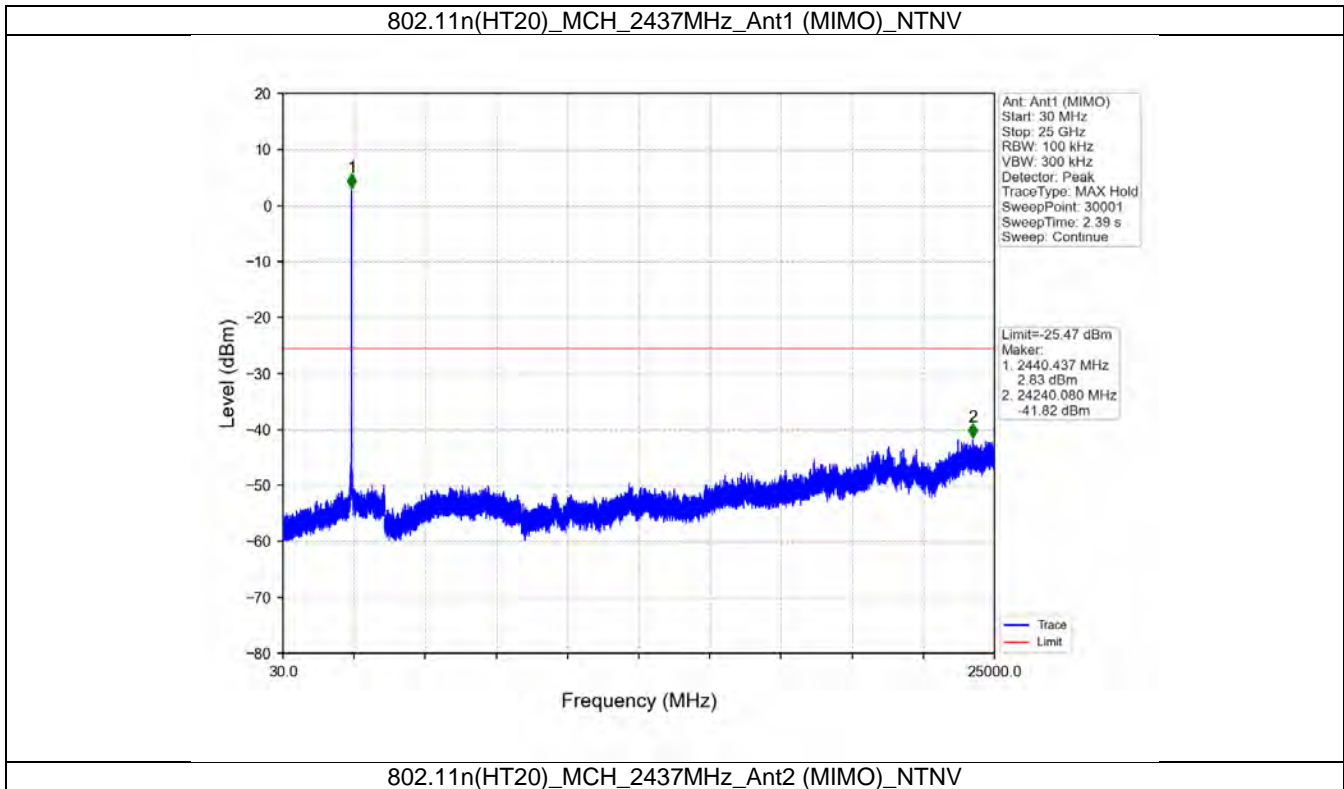


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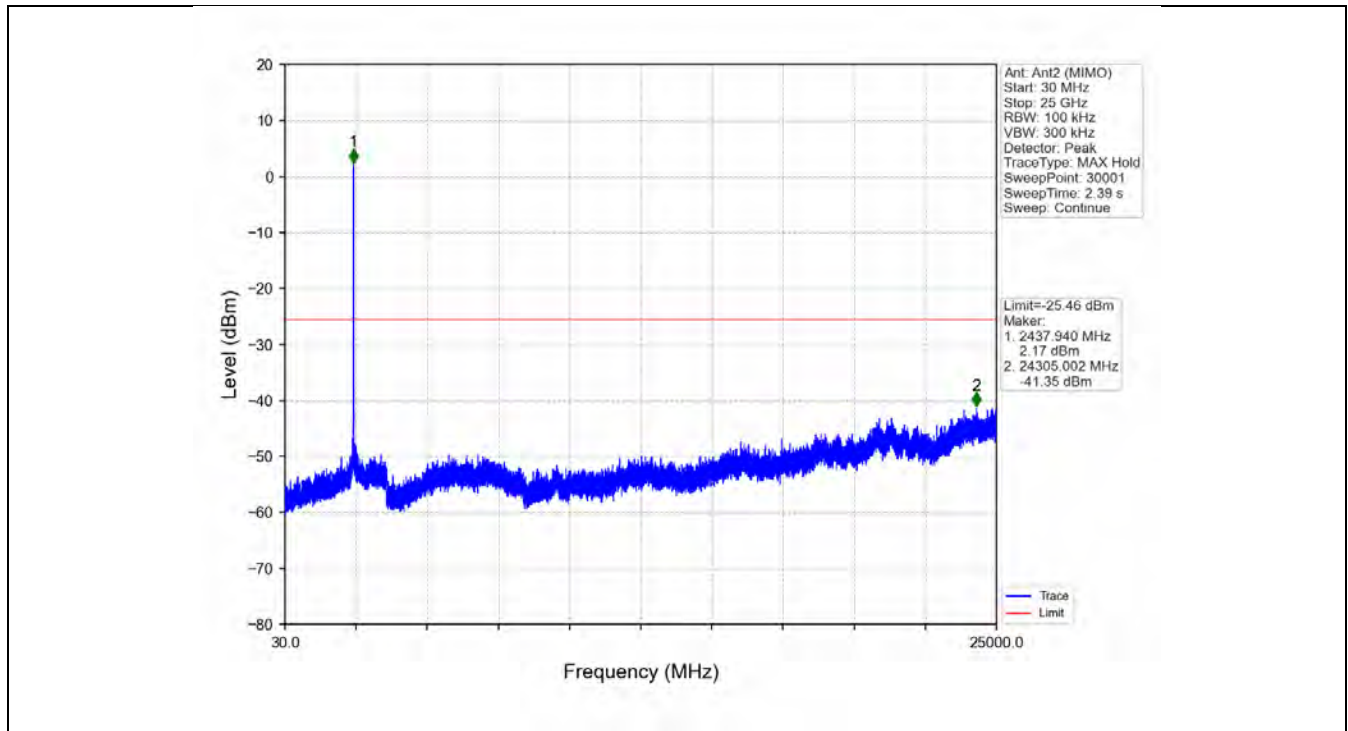


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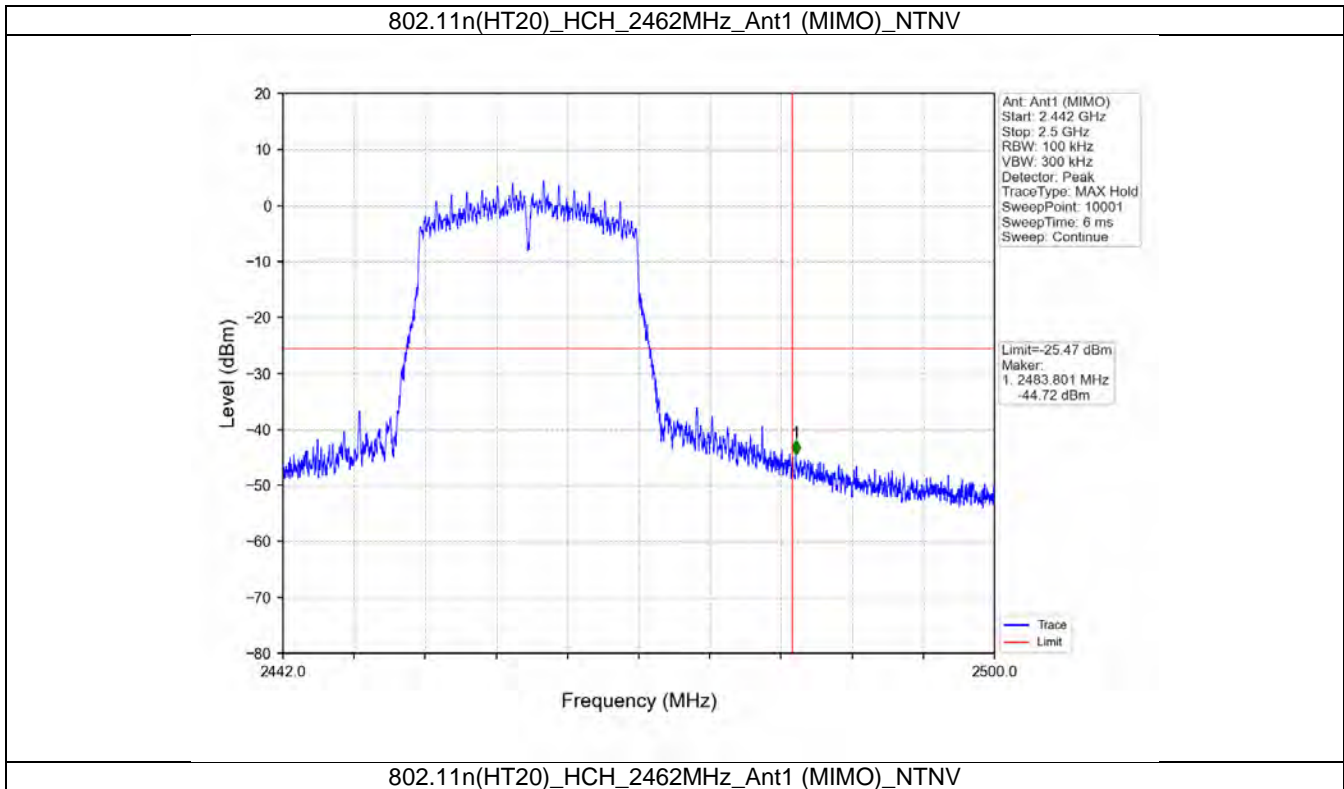


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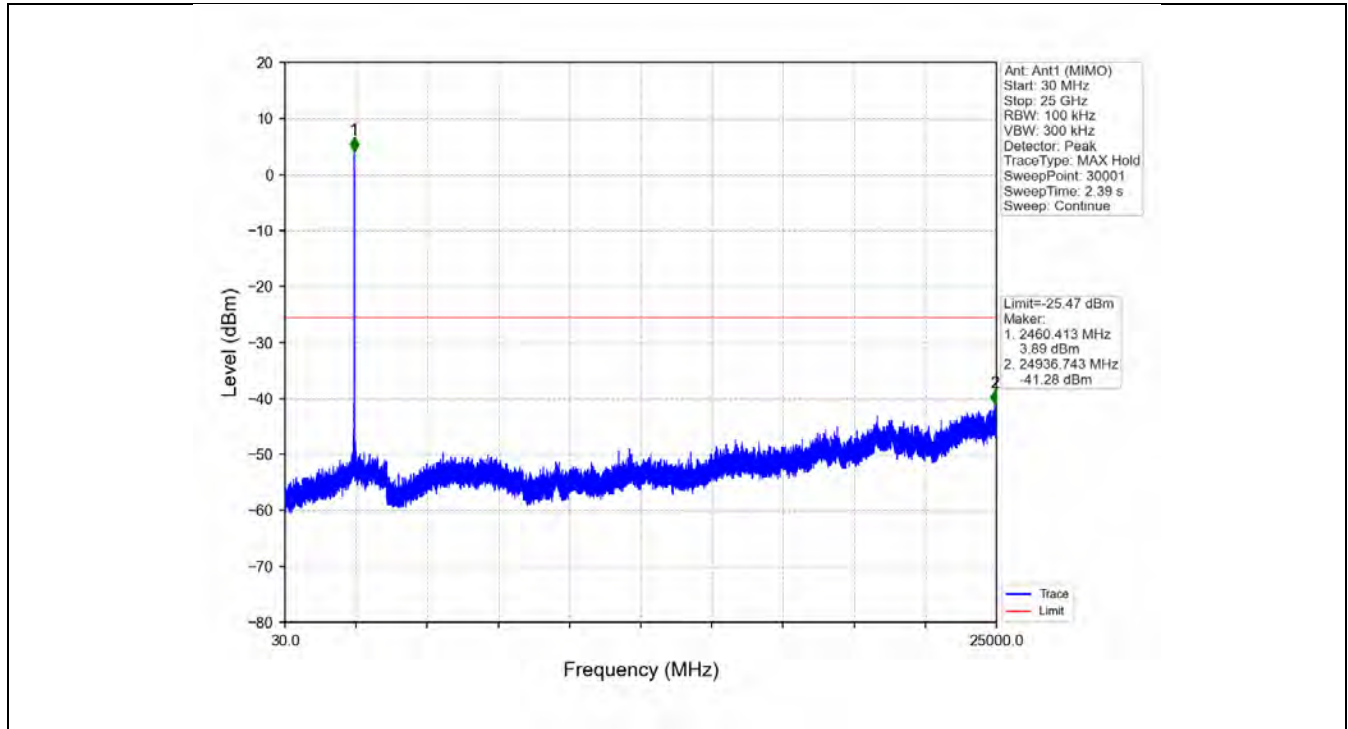


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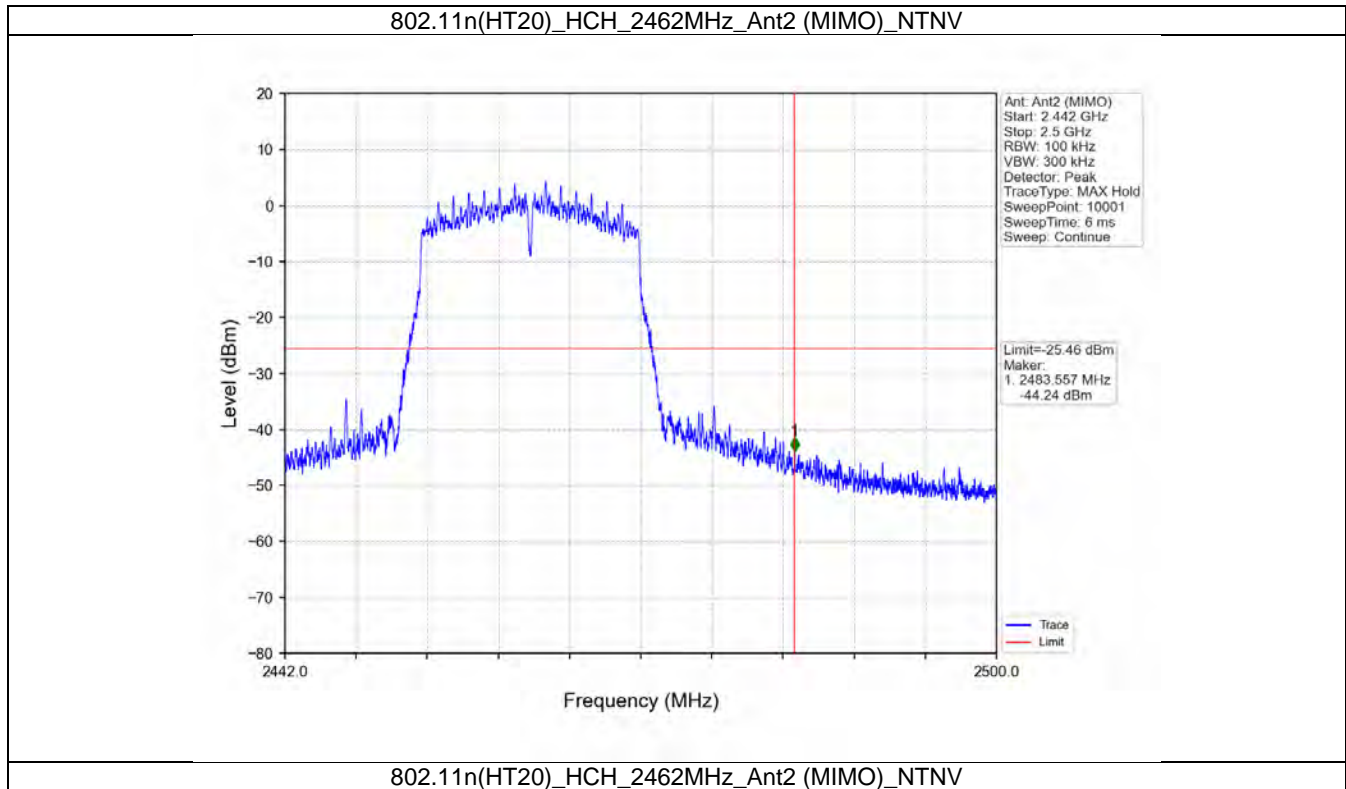


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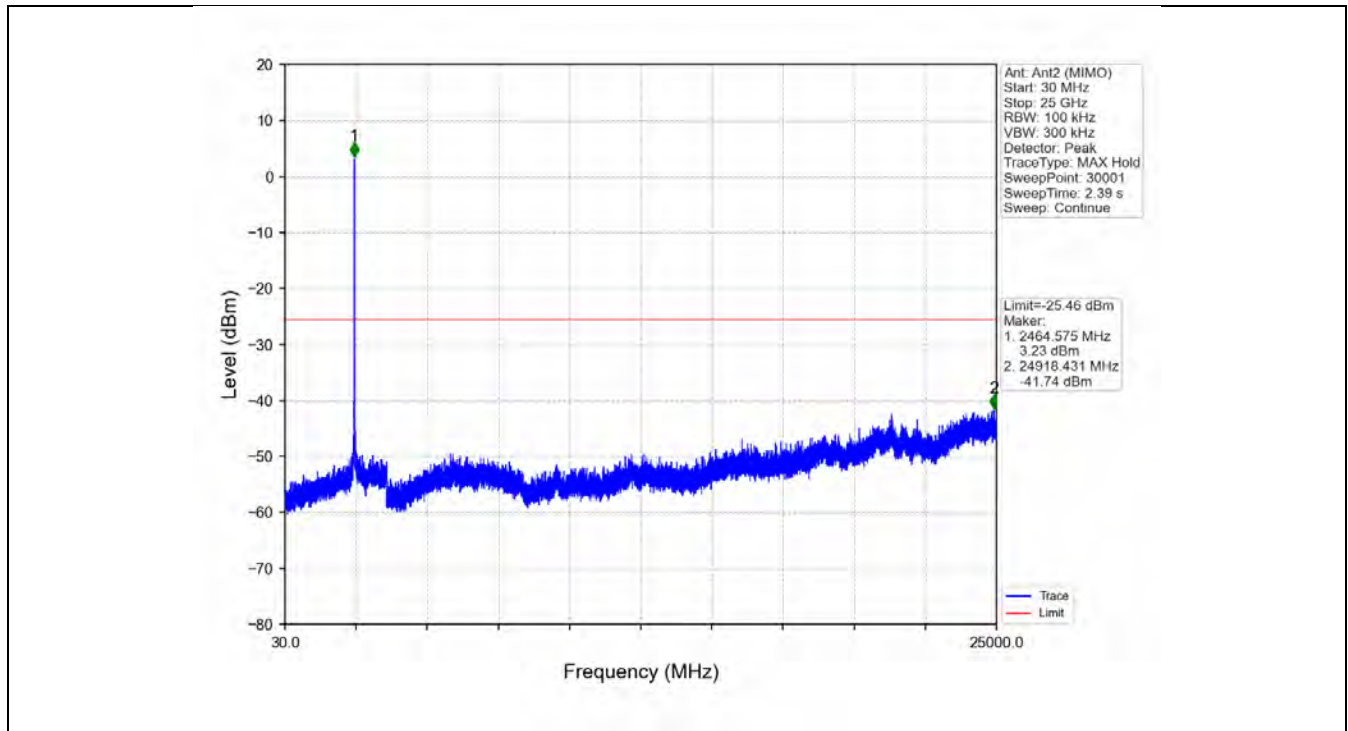


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