

Appendix A for SHCR220100008901

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.413	8.510	98.86	0.05	0.04
		2437	8.413	8.510	98.86	0.05	0.04
		2462	8.413	8.510	98.86	0.05	0.04
802.11g	SISO	2412	2.063	2.093	98.57	0.06	0.04
		2437	2.062	2.093	98.52	0.06	0.00
		2462	2.063	2.093	98.57	0.06	0.04
802.11n (HT20)	MIMO	2412	1.919	2.019	95.05	0.22	0.03
		2437	1.919	2.020	95.00	0.22	0.06
		2462	1.919	2.020	95.00	0.22	0.03

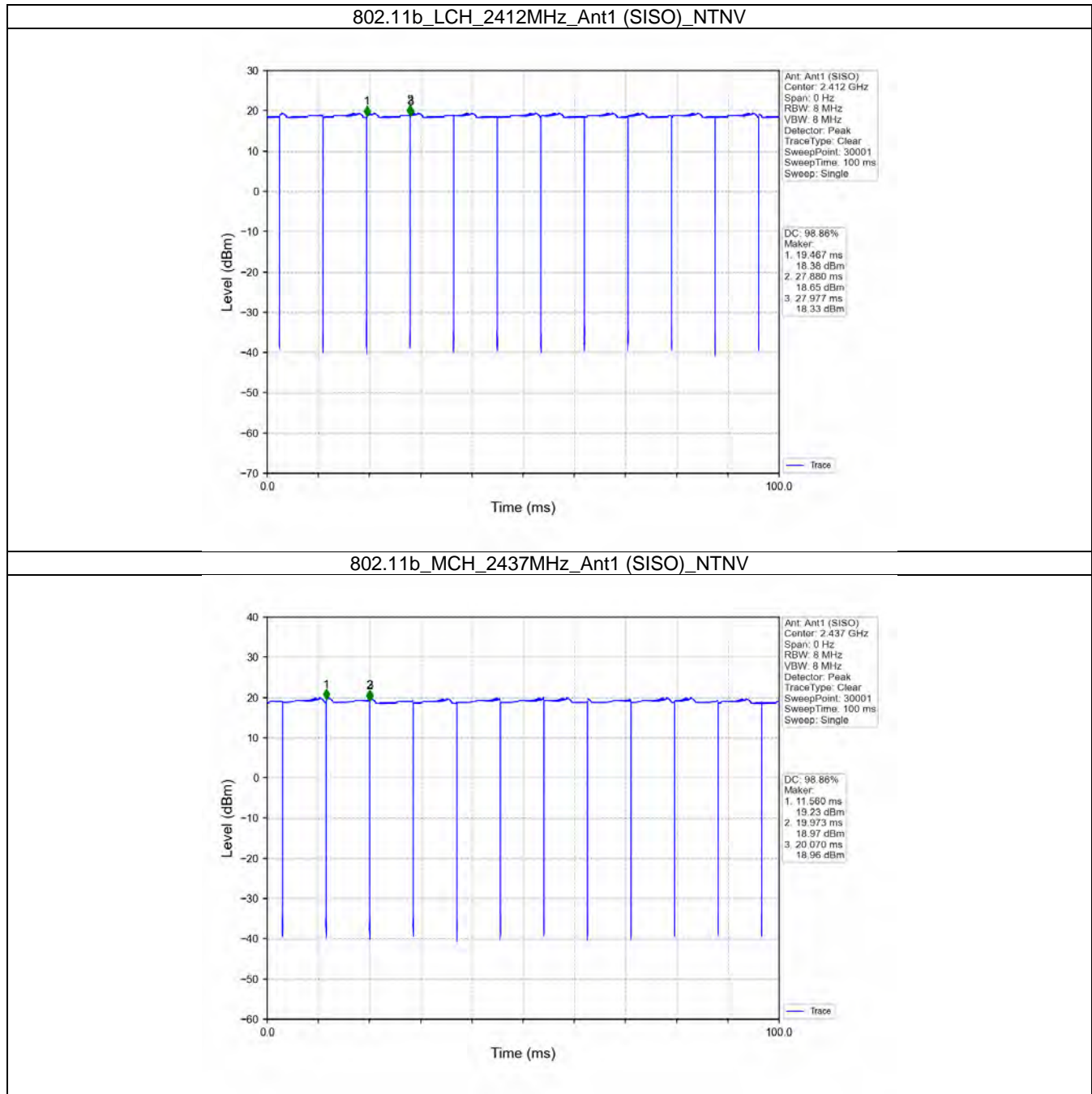


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1.1.2 Test Graph



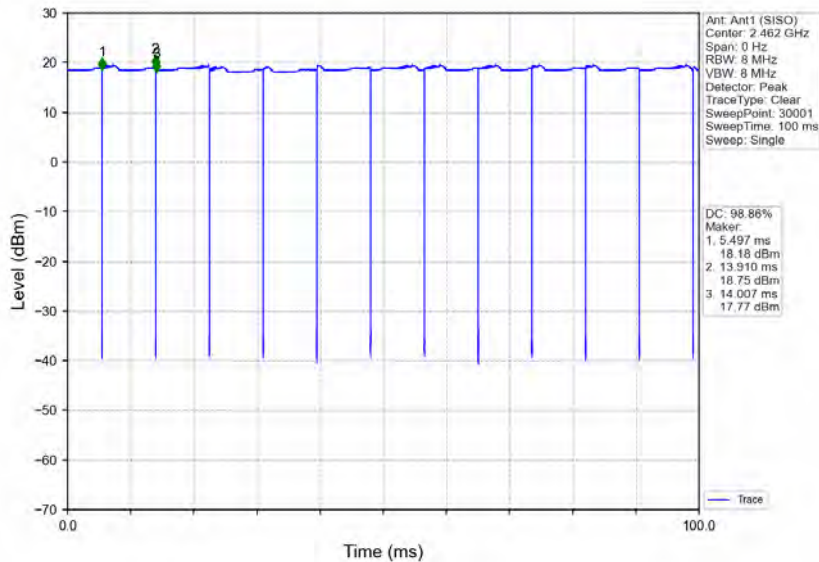
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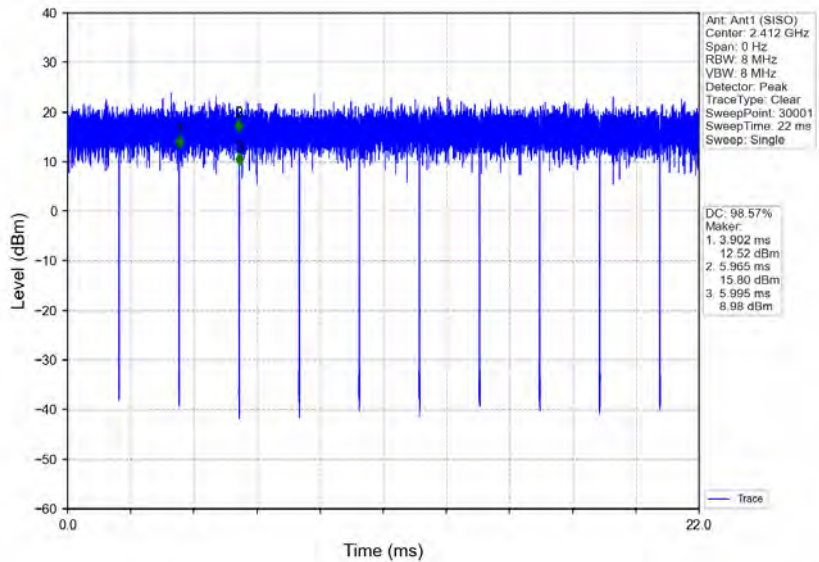
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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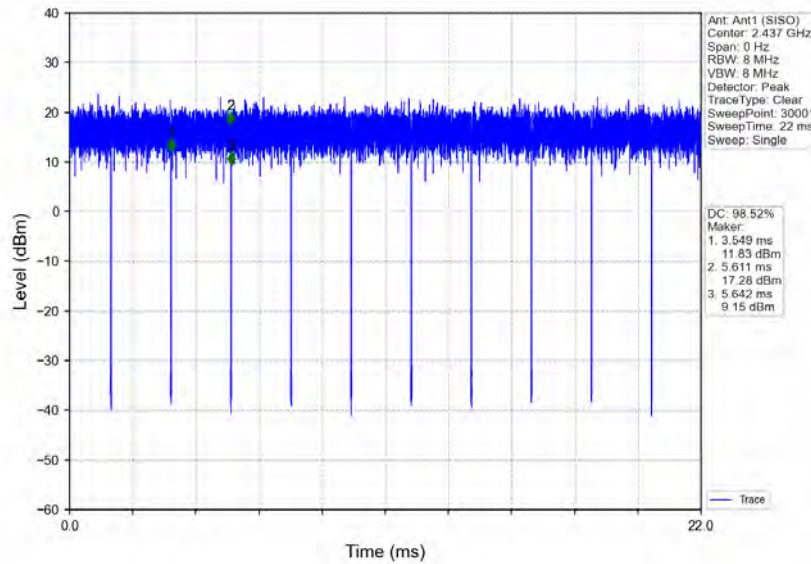
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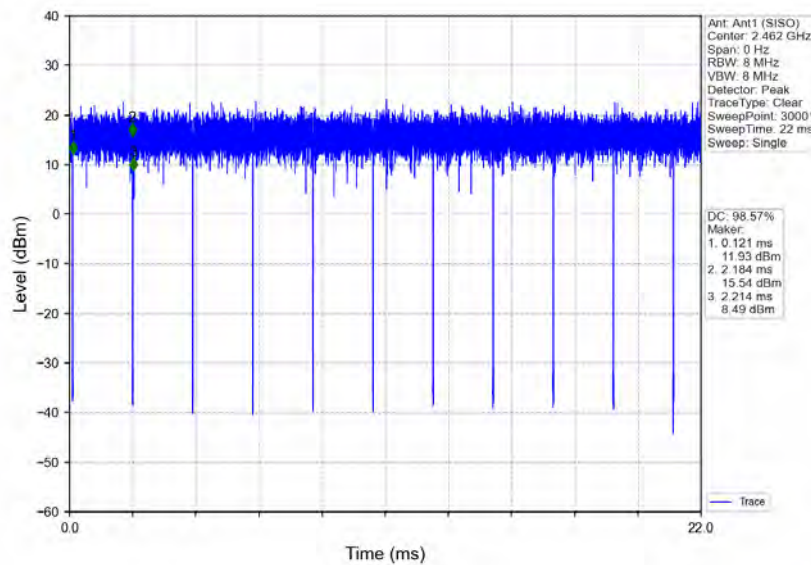
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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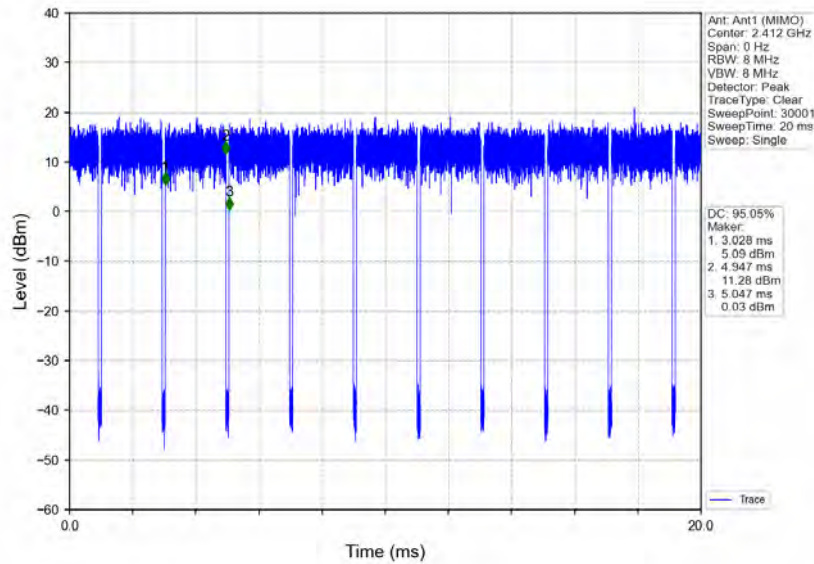
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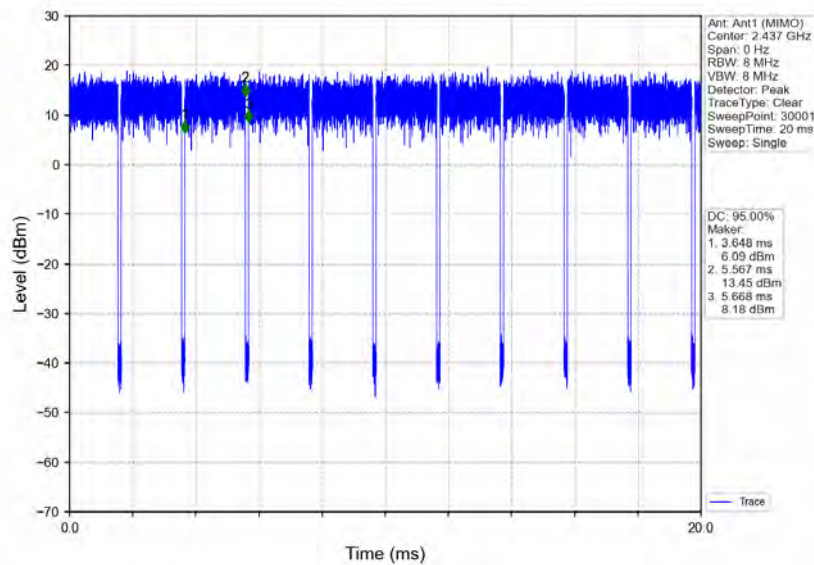
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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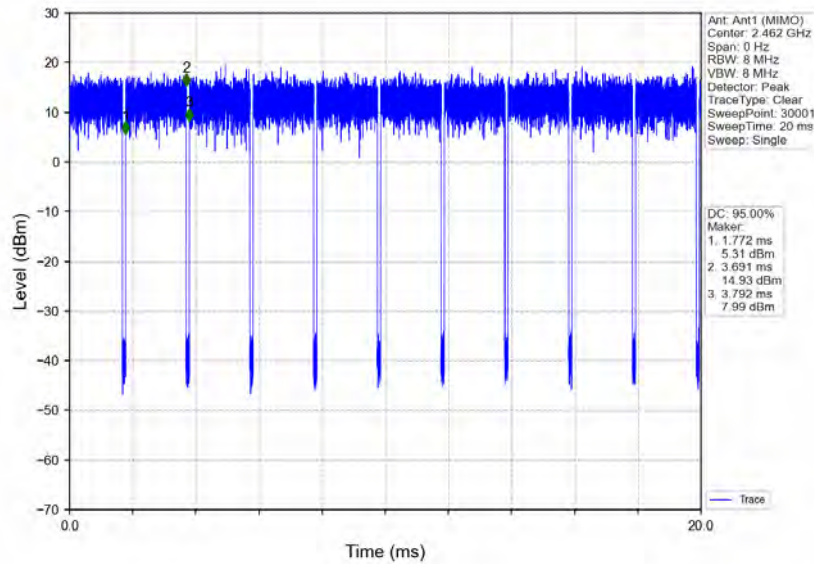
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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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	11.891	Pass
			2	10.076	Pass
		2437	1	11.916	Pass
			2	12.219	Pass
		2462	1	11.899	Pass
			2	12.163	Pass
802.11g	SISO	2412	1	18.049	Pass
			2	18.130	Pass
		2437	1	18.052	Pass
			2	18.116	Pass
		2462	1	18.046	Pass
			2	18.138	Pass
802.11n (HT20)	MIMO	2412	1	18.855	Pass
			2	18.258	Pass
		2437	1	18.834	Pass
			2	18.269	Pass
		2462	1	18.839	Pass
			2	18.268	Pass

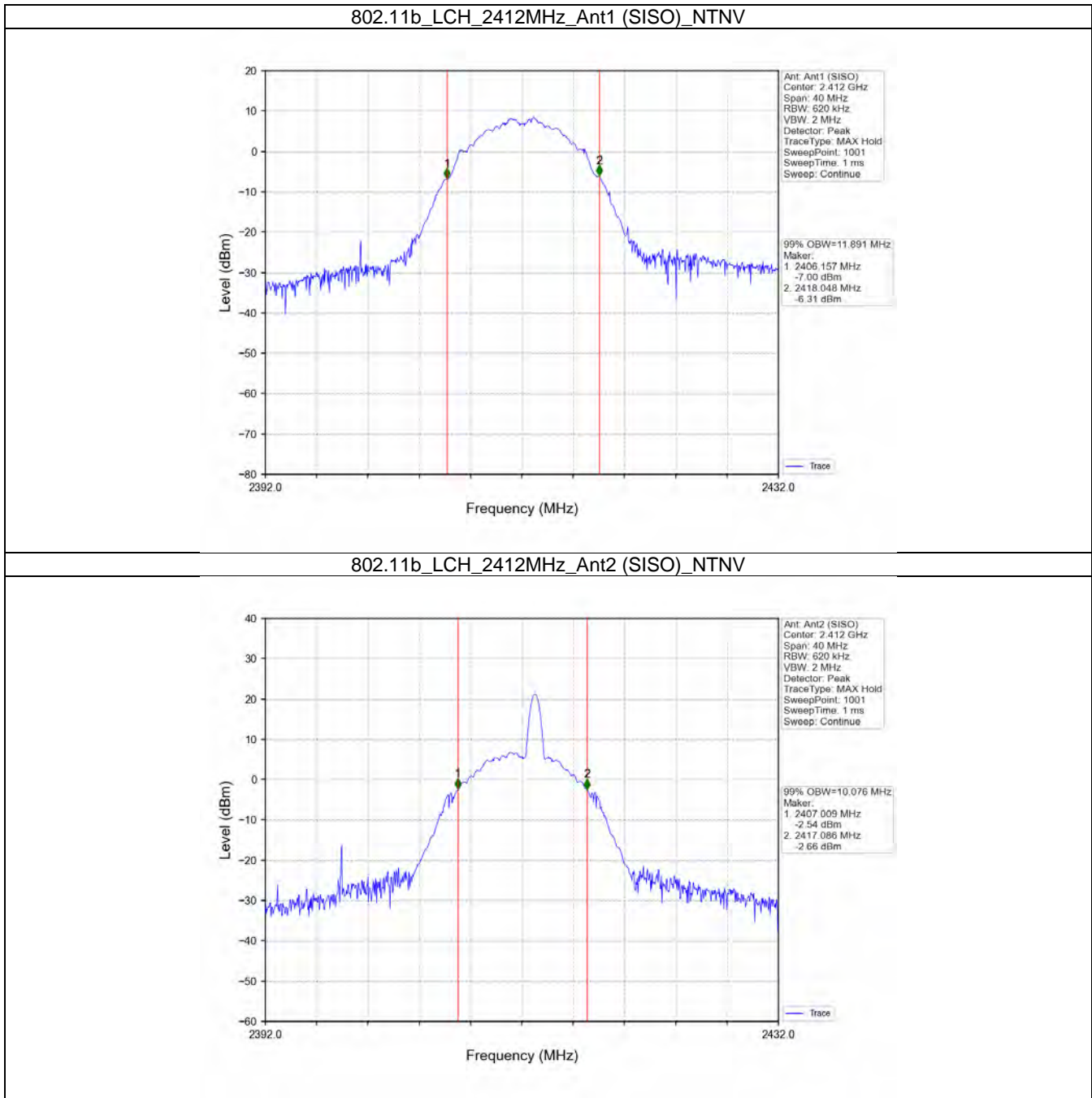


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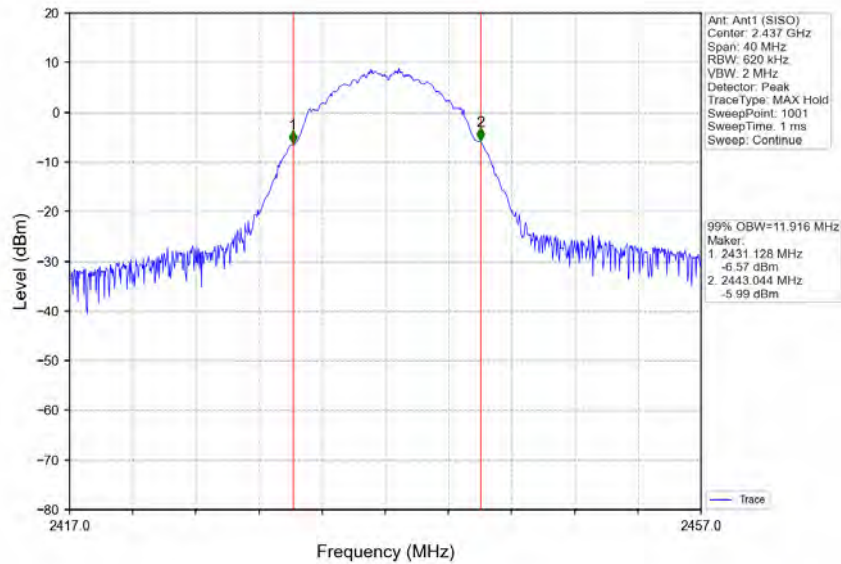
2.1.2 Test Graph



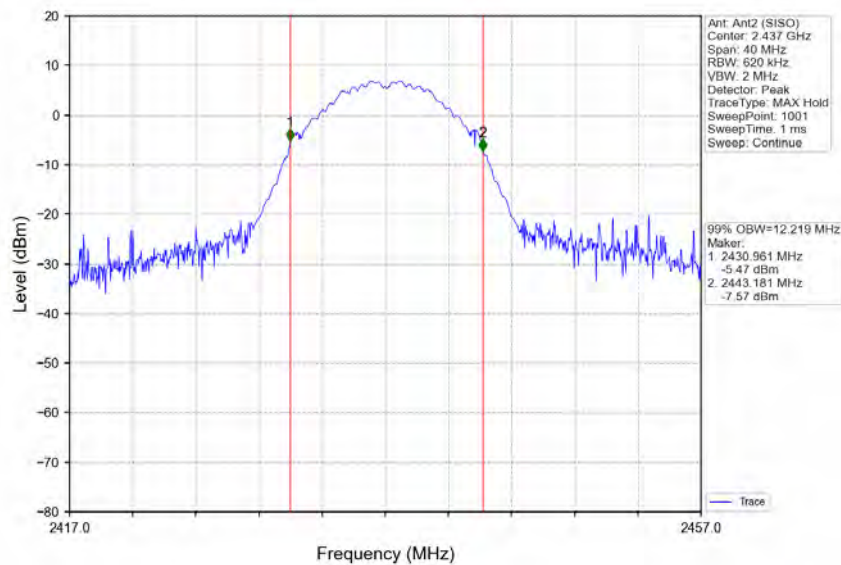
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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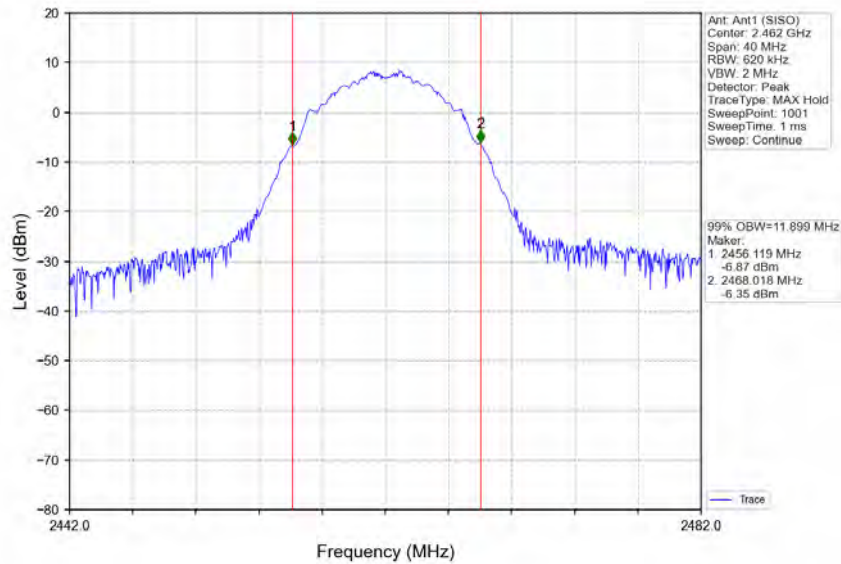
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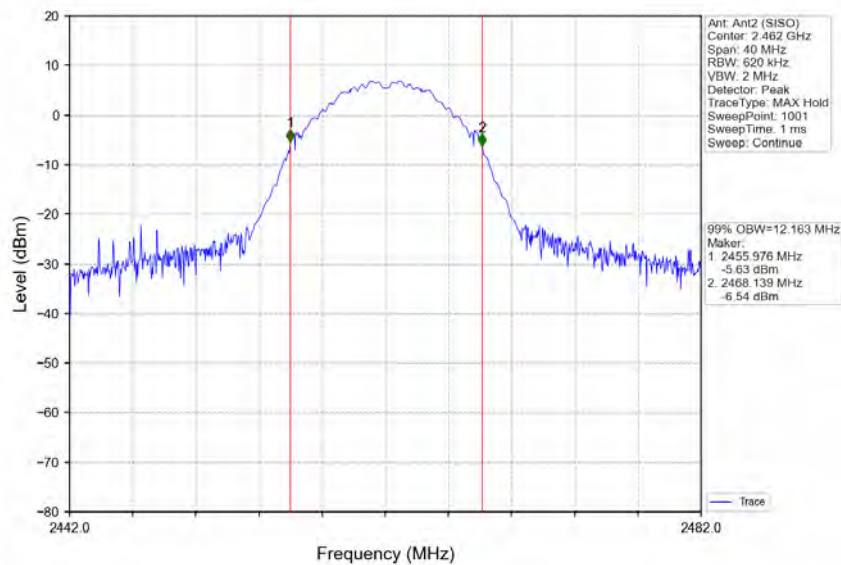
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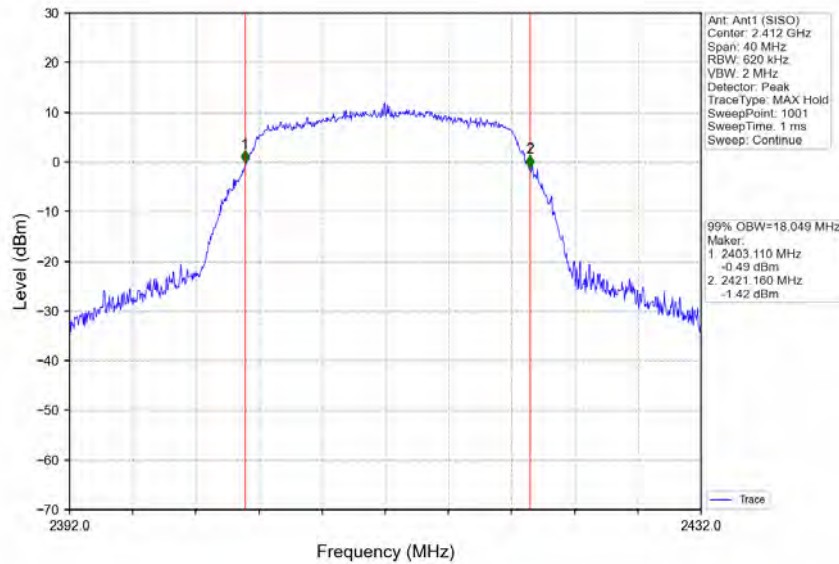
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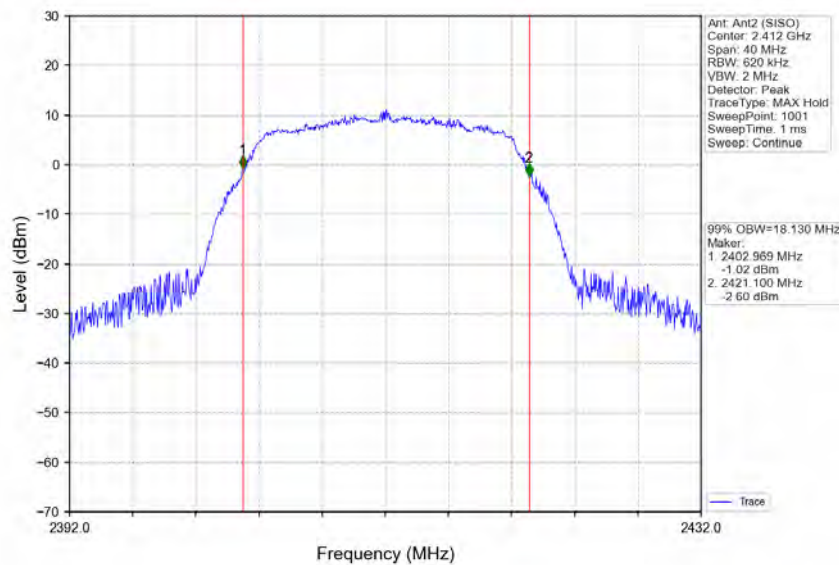
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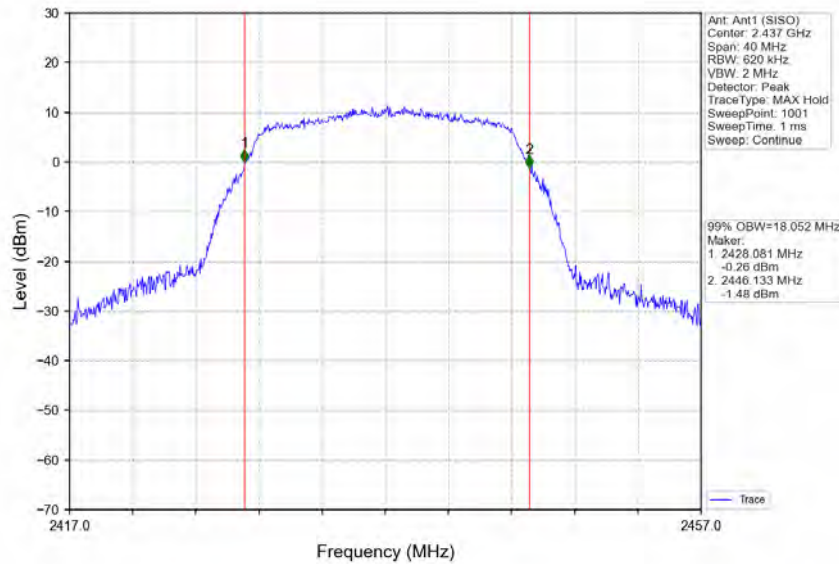
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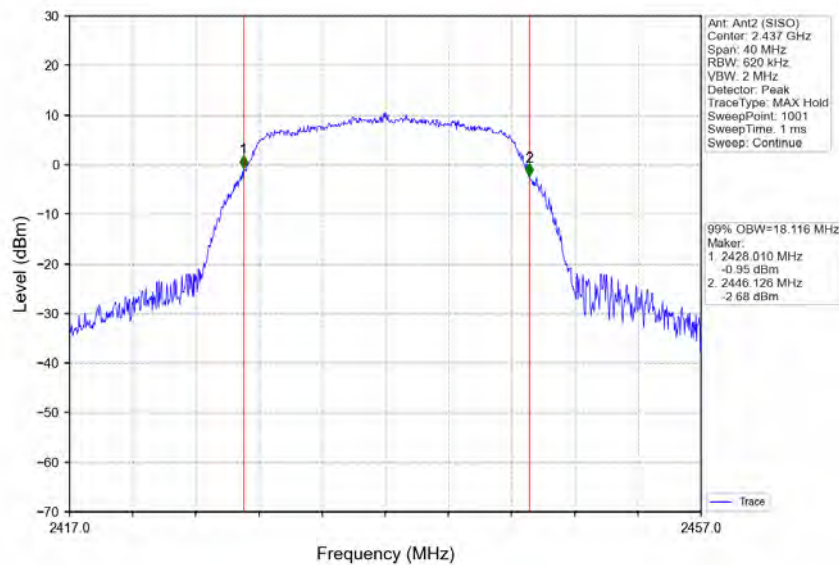
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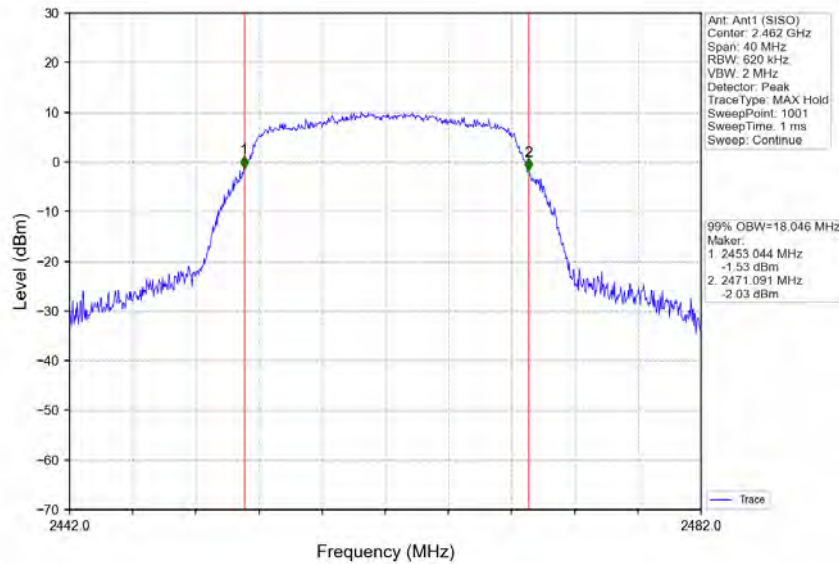
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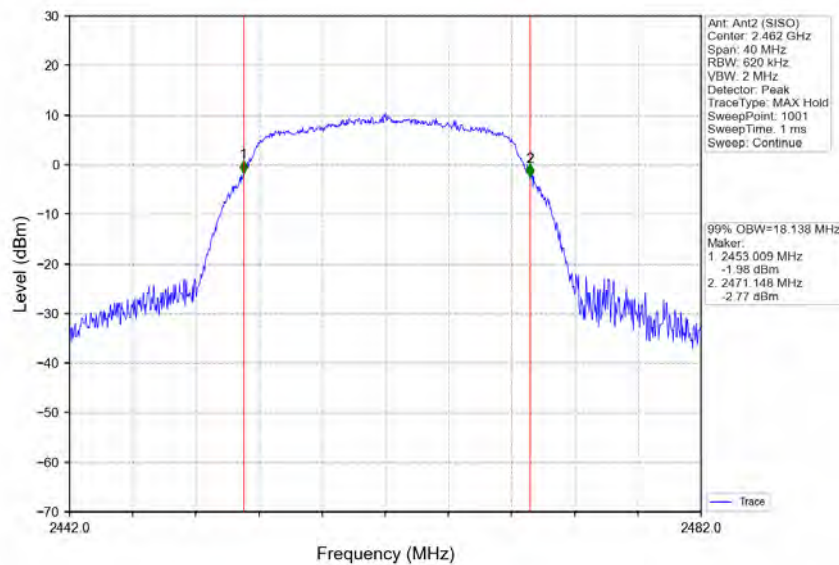


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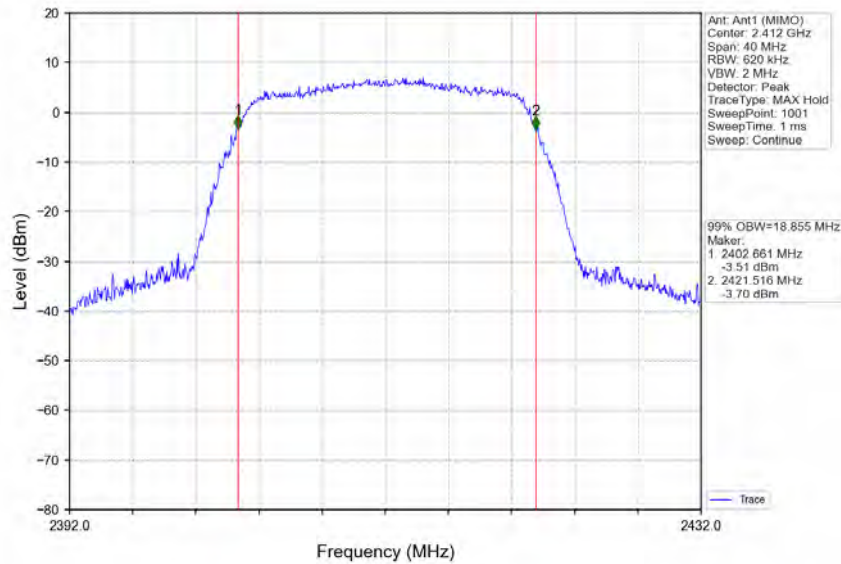
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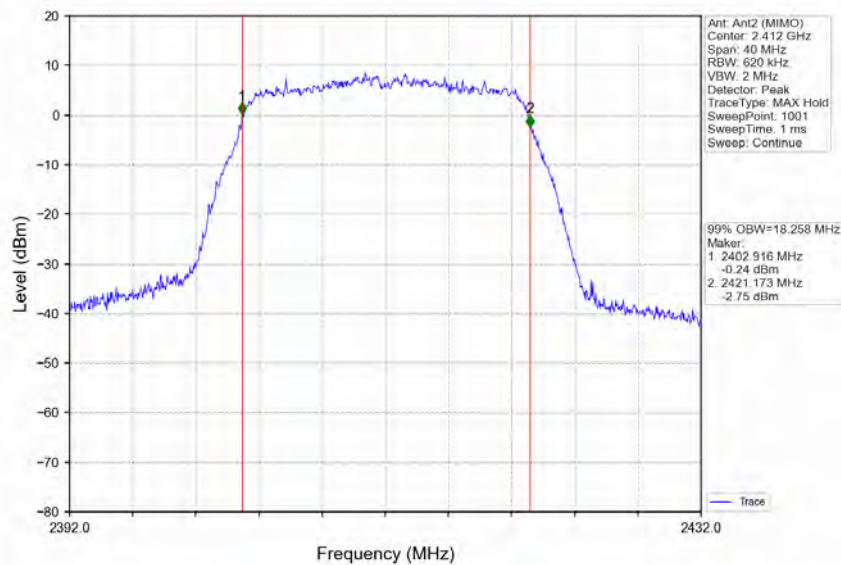
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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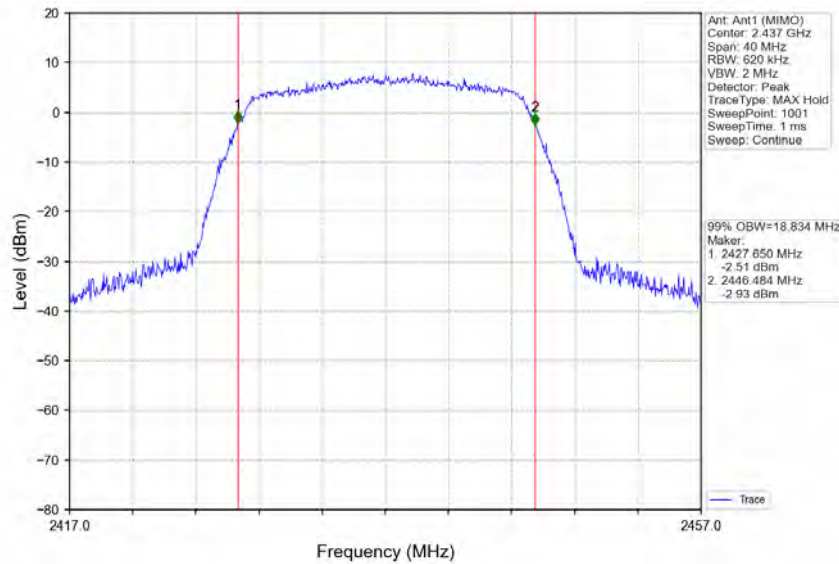
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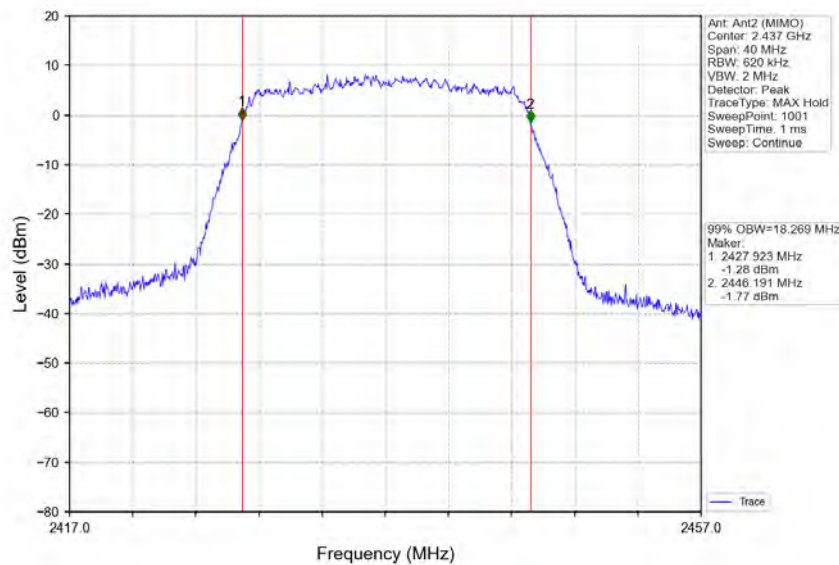
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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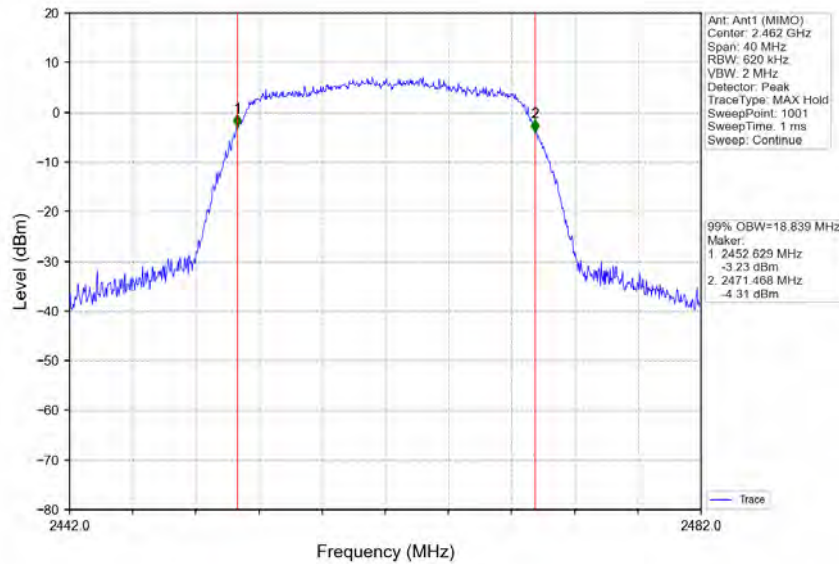
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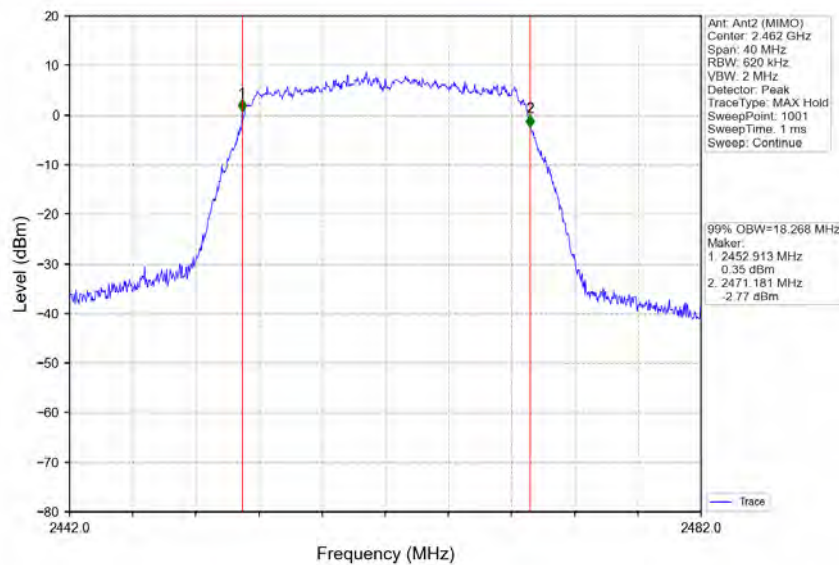
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

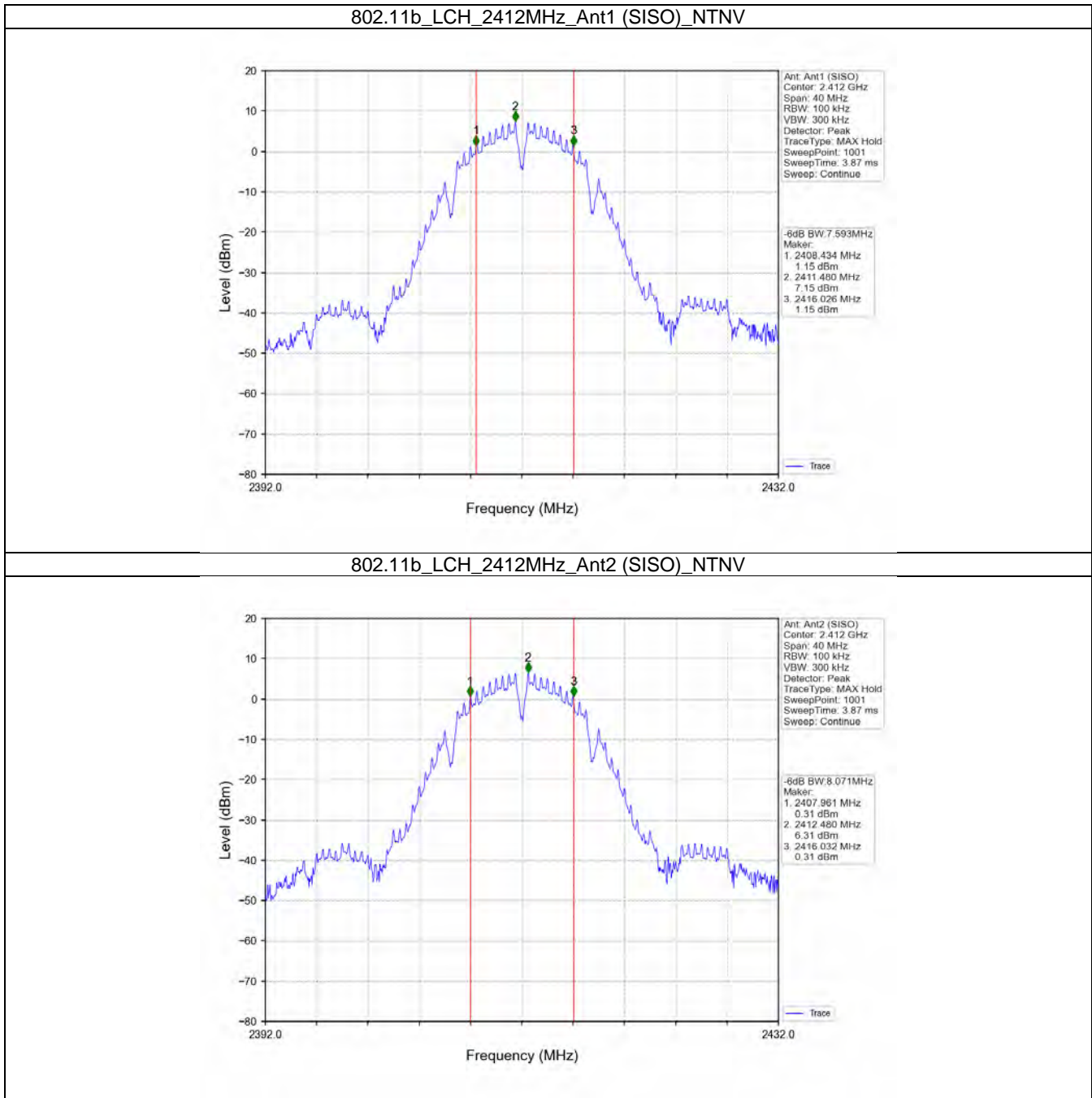
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.593	>=0.5	Pass
			2	8.071	>=0.5	Pass
		2437	1	8.052	>=0.5	Pass
			2	8.061	>=0.5	Pass
		2462	1	8.056	>=0.5	Pass
			2	7.600	>=0.5	Pass
802.11g	SISO	2412	1	16.364	>=0.5	Pass
			2	16.411	>=0.5	Pass
		2437	1	16.374	>=0.5	Pass
			2	16.387	>=0.5	Pass
		2462	1	16.379	>=0.5	Pass
			2	16.383	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.390	>=0.5	Pass
			2	17.648	>=0.5	Pass
		2437	1	17.600	>=0.5	Pass
			2	17.662	>=0.5	Pass
		2462	1	17.593	>=0.5	Pass
			2	17.651	>=0.5	Pass



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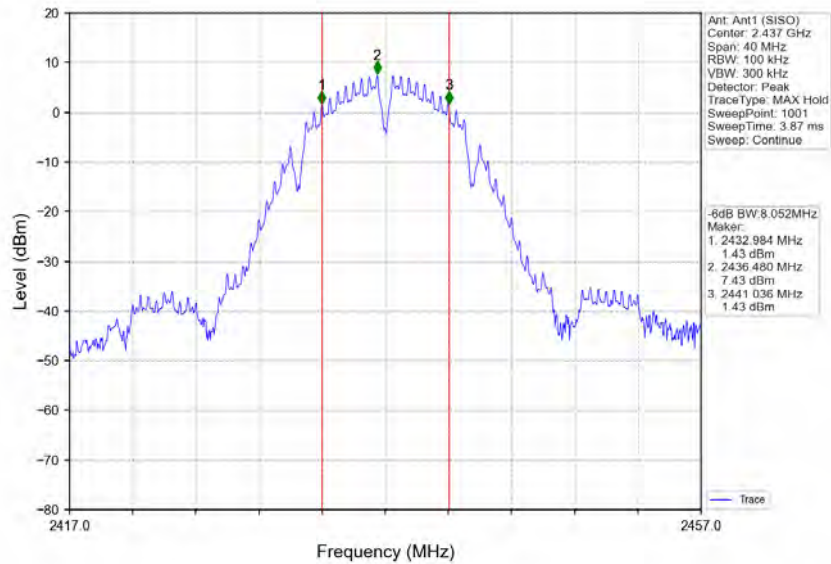
2.2.2 Test Graph



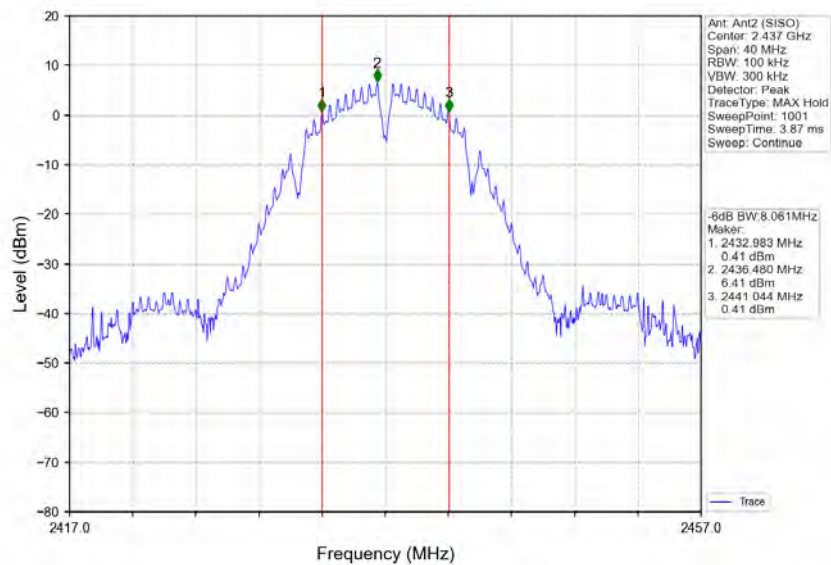
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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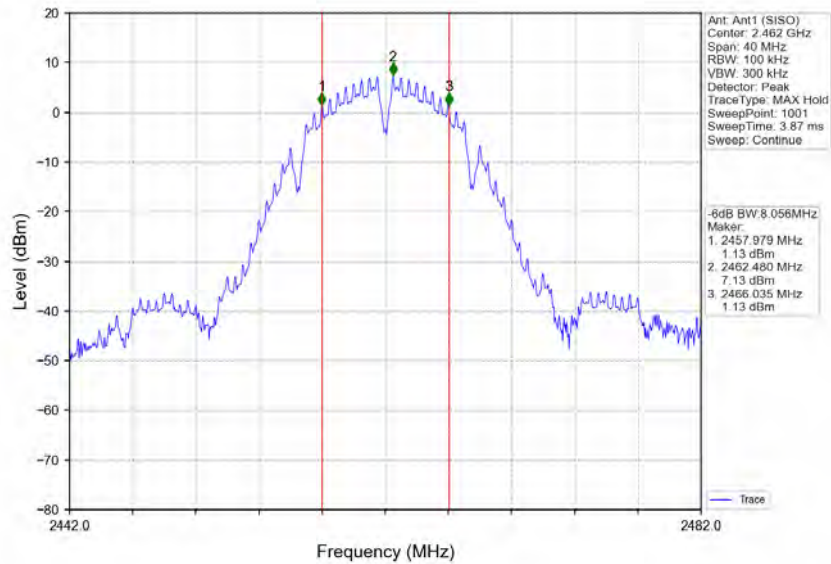
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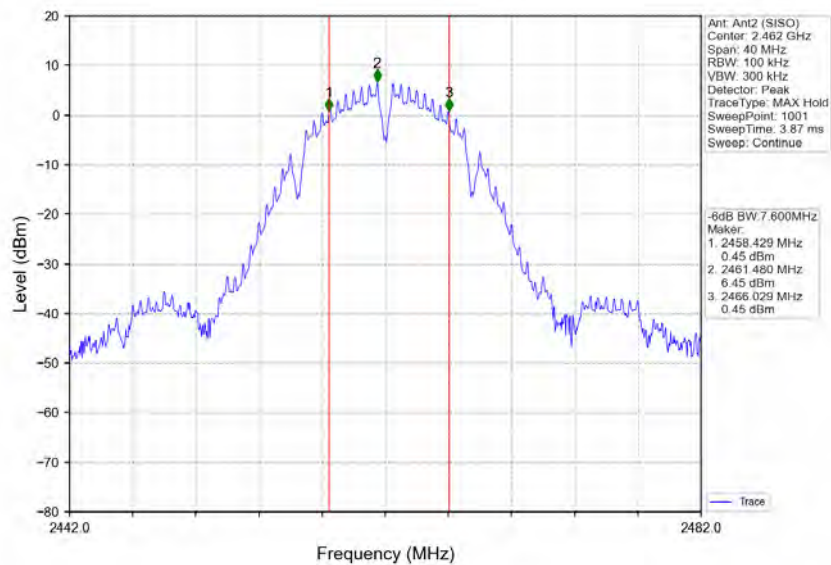
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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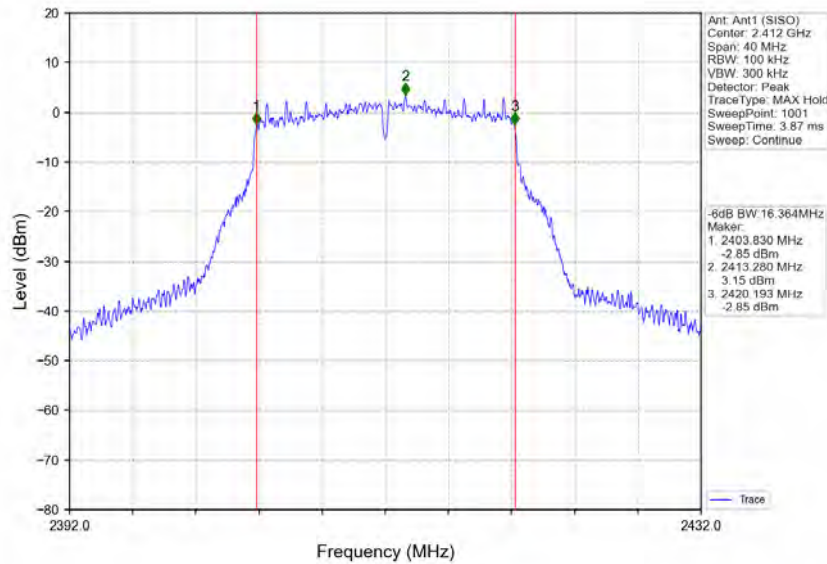
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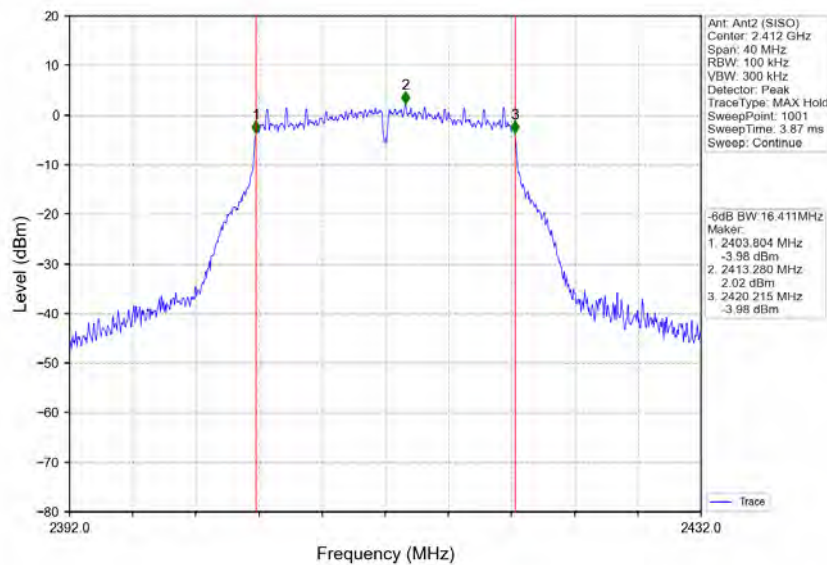
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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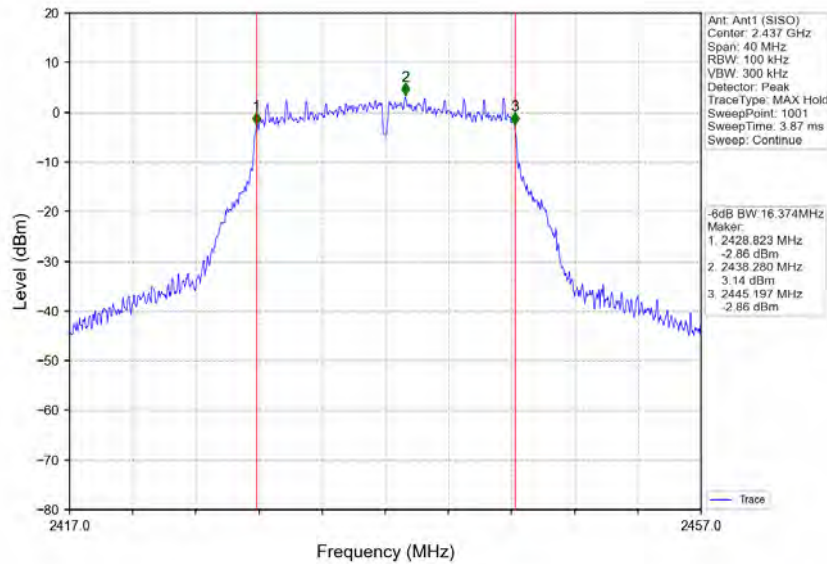
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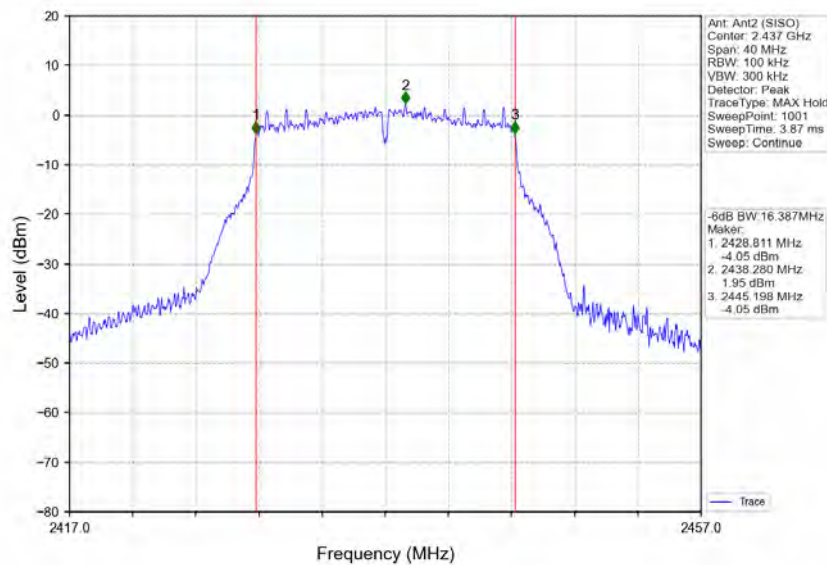
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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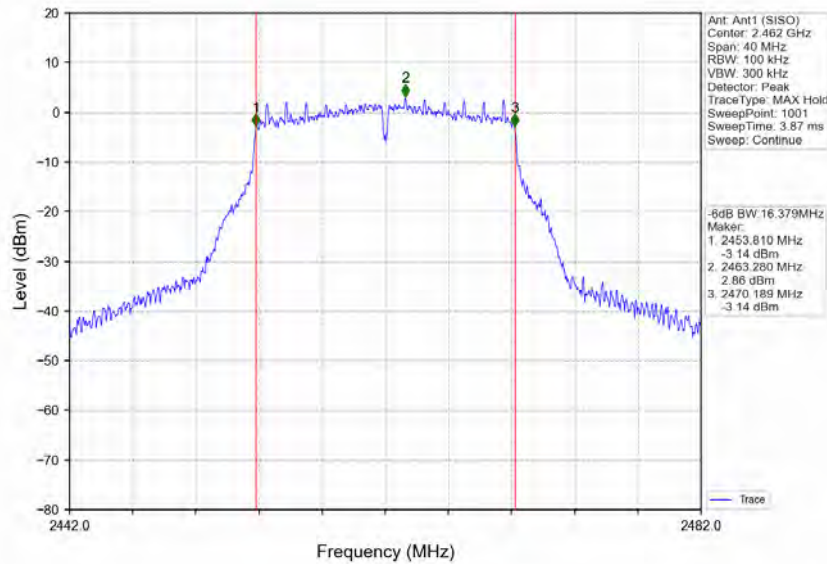
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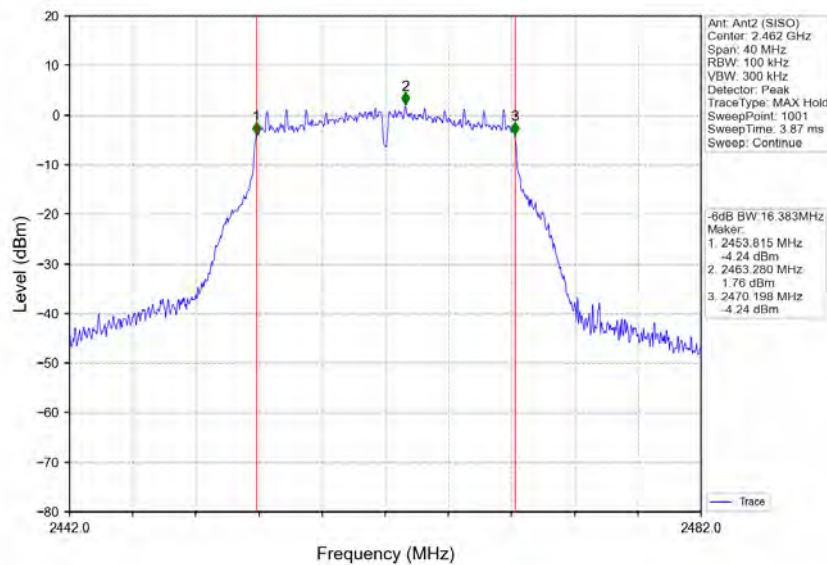
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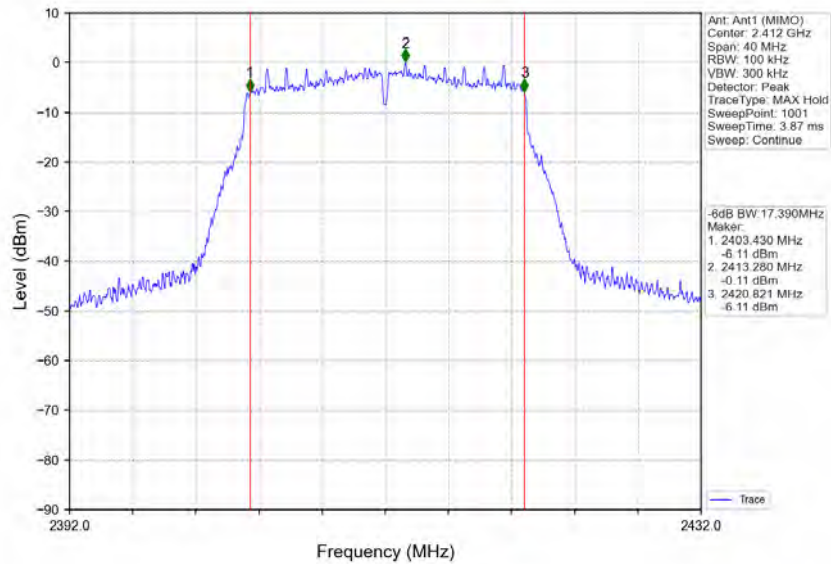
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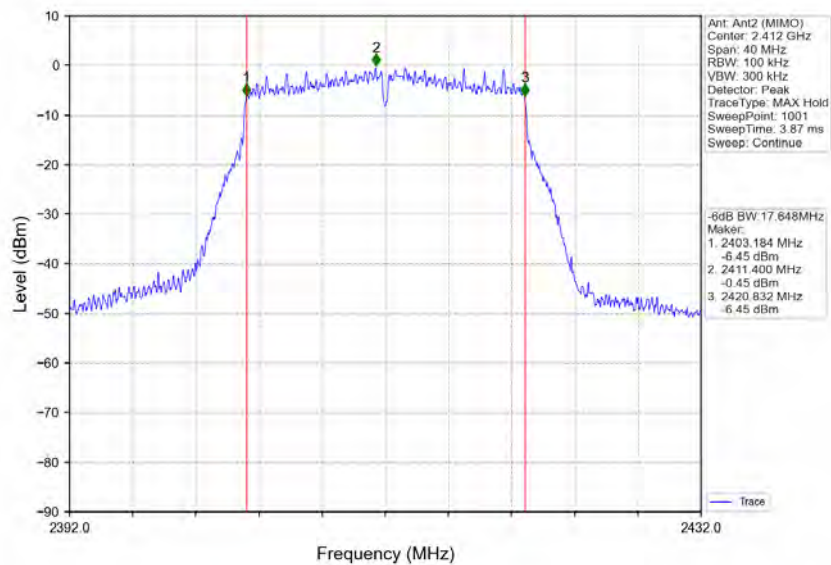
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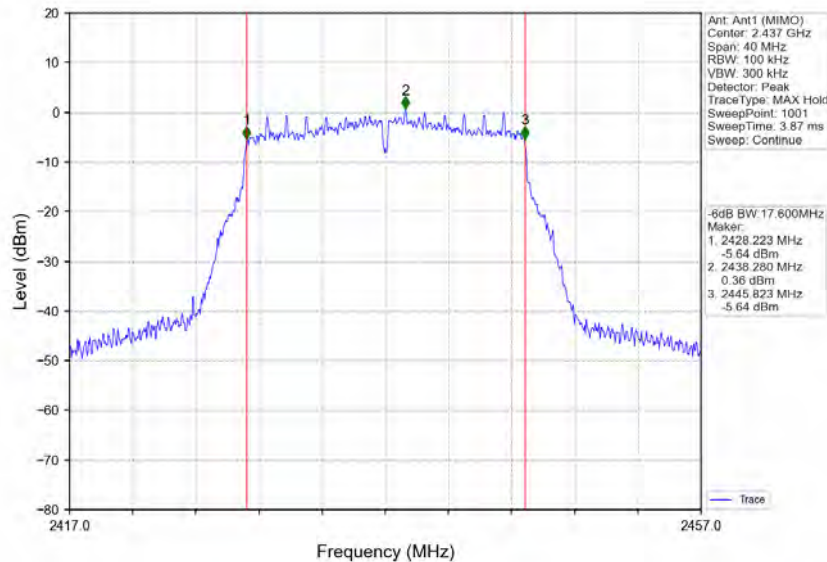
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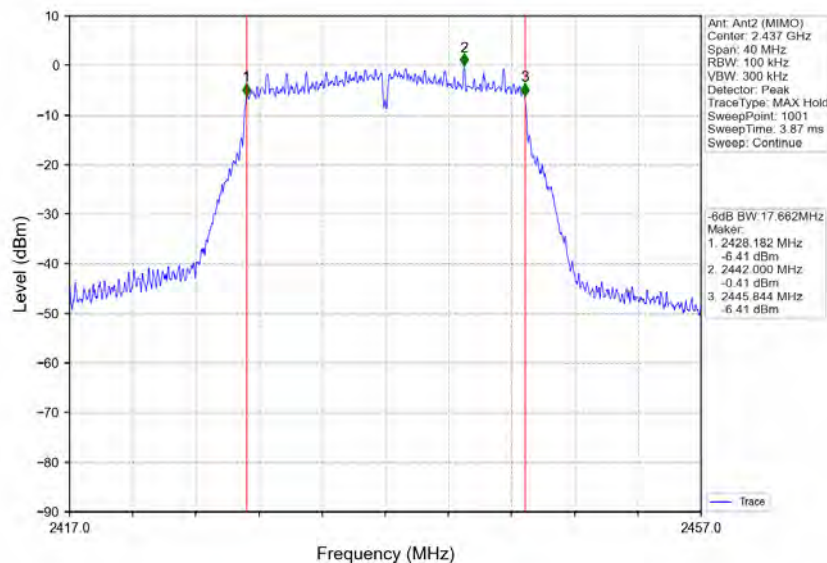
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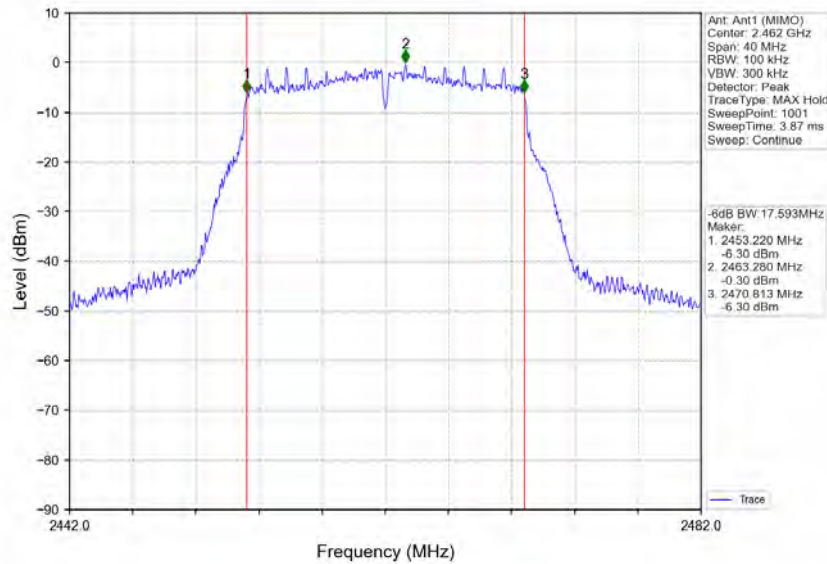
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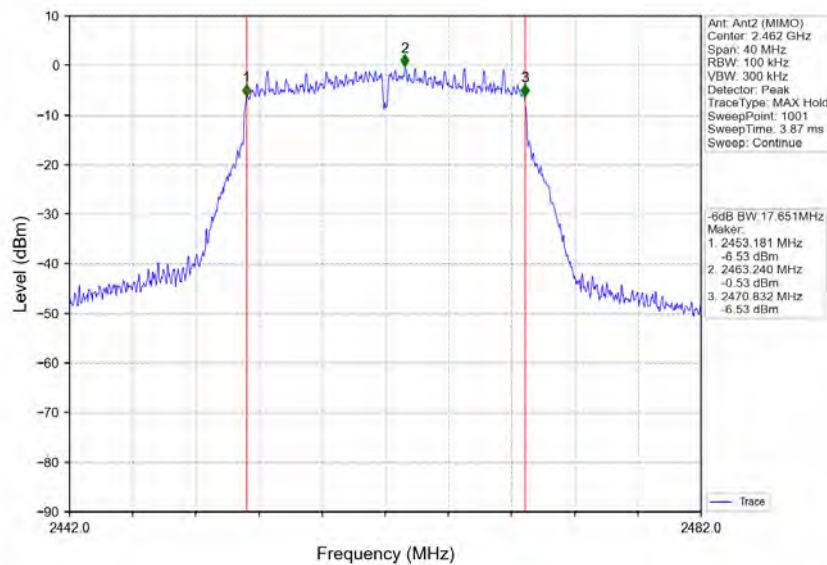
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3. Maximum Conducted Output Power

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	14.65	13.78	/	<=30	Pass
		2437	14.92	14.03	/	<=30	Pass
		2462	14.69	13.79	/	<=30	Pass
802.11g	SISO	2412	14.70	13.79	/	<=30	Pass
		2437	14.78	13.63	/	<=30	Pass
		2462	14.42	13.43	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.56	11.32	14.45	<=30	Pass
		2437	11.87	11.23	14.57	<=30	Pass
		2462	11.30	11.13	14.23	<=30	Pass

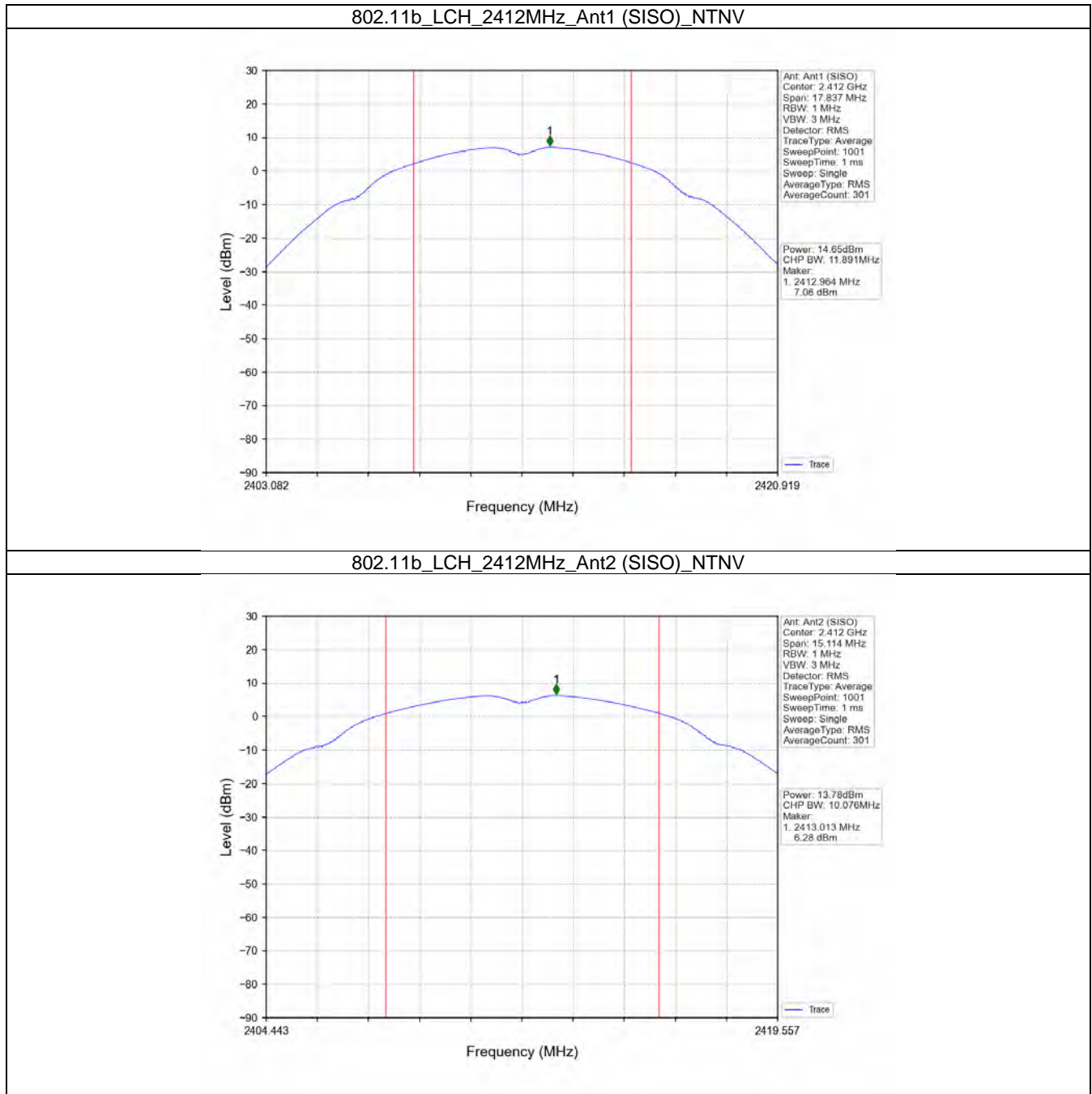
Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 3.42dBi;
 Note2: Directional Gain: 5.56dBi



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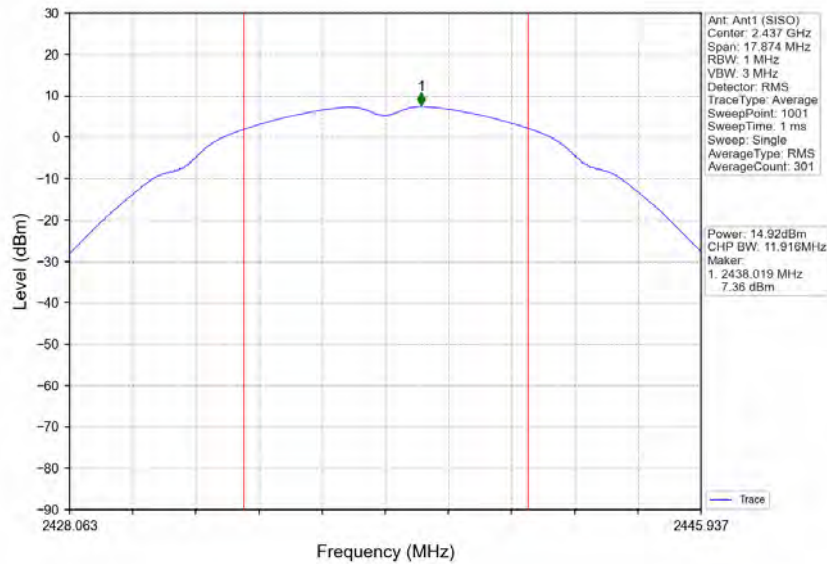
3.1.2 Test Graph



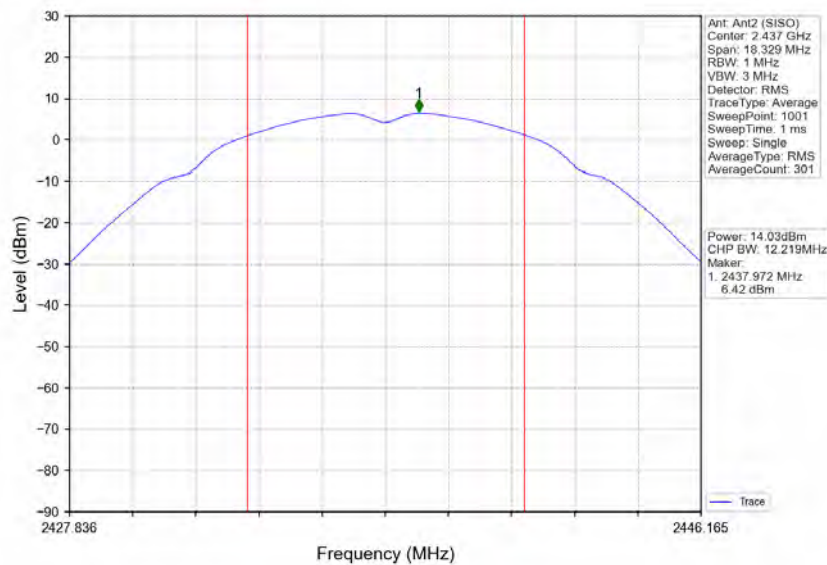
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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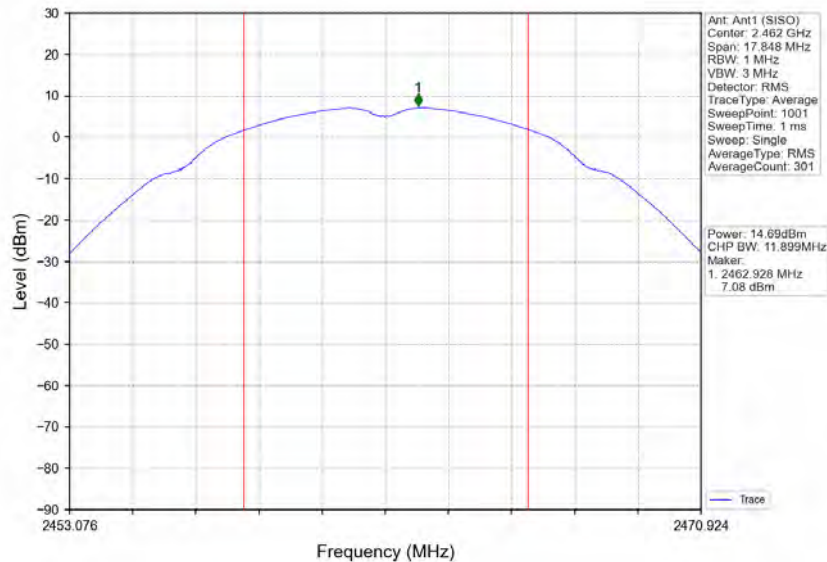
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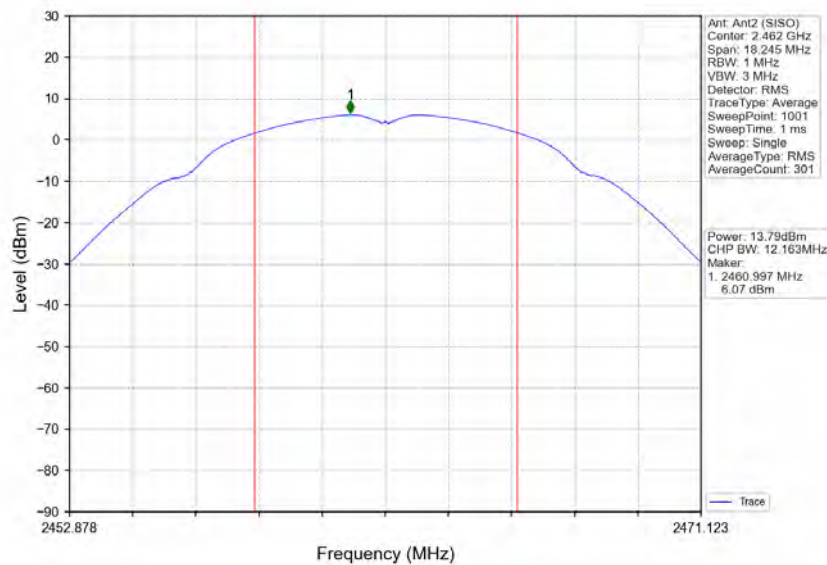
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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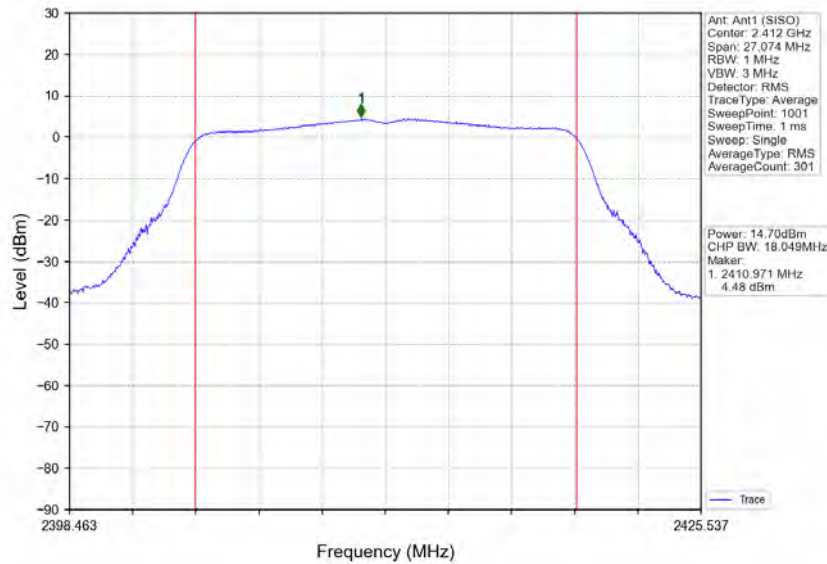
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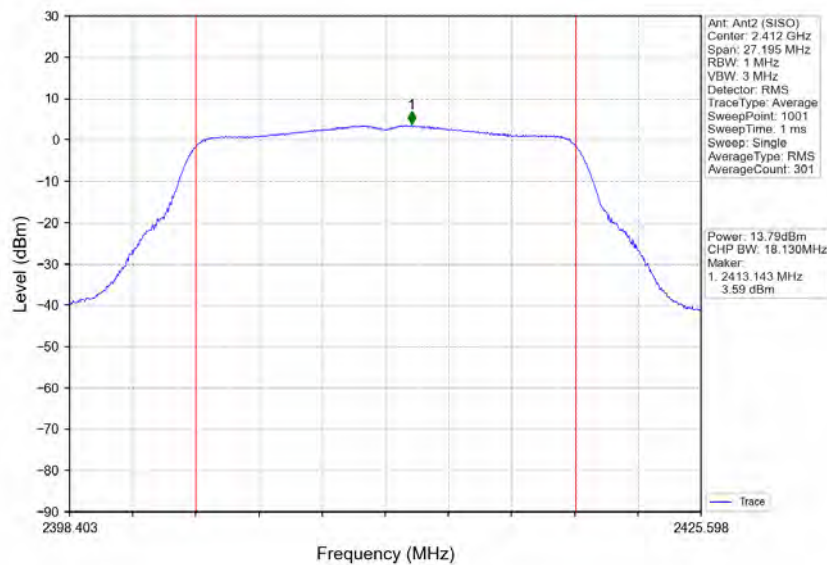
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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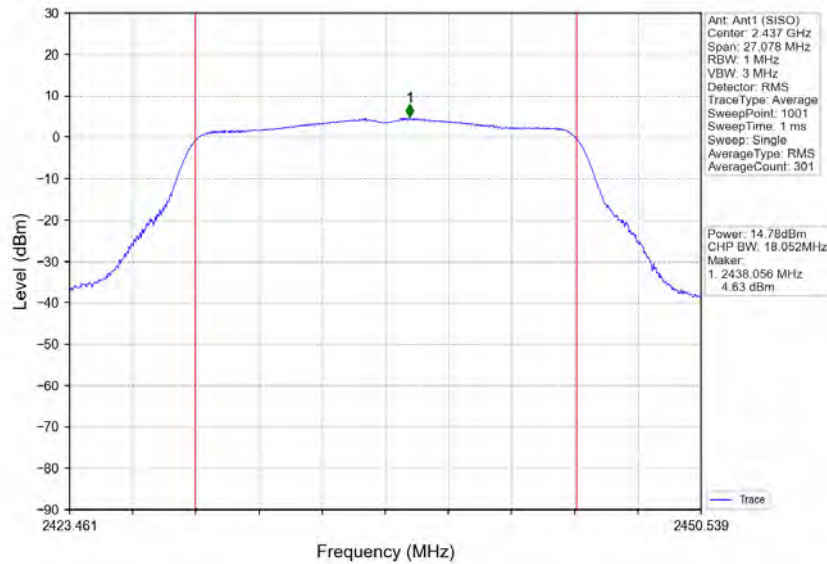
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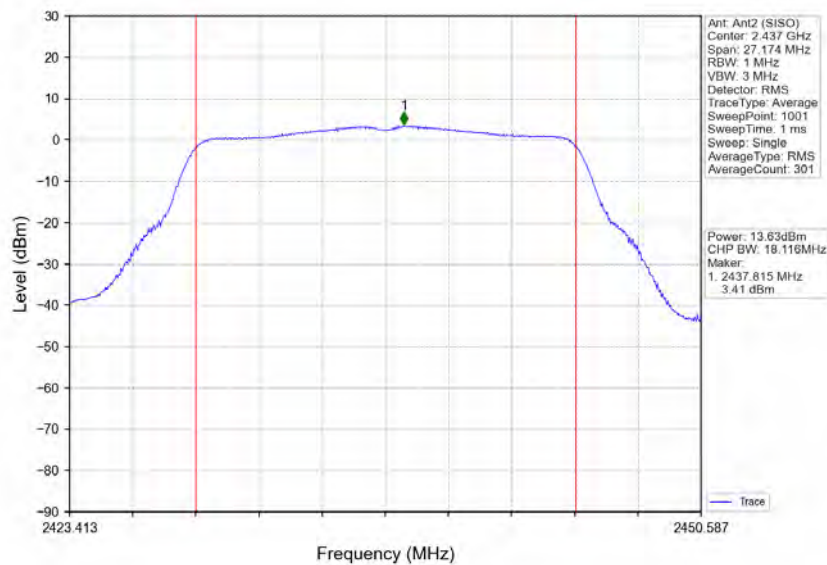
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



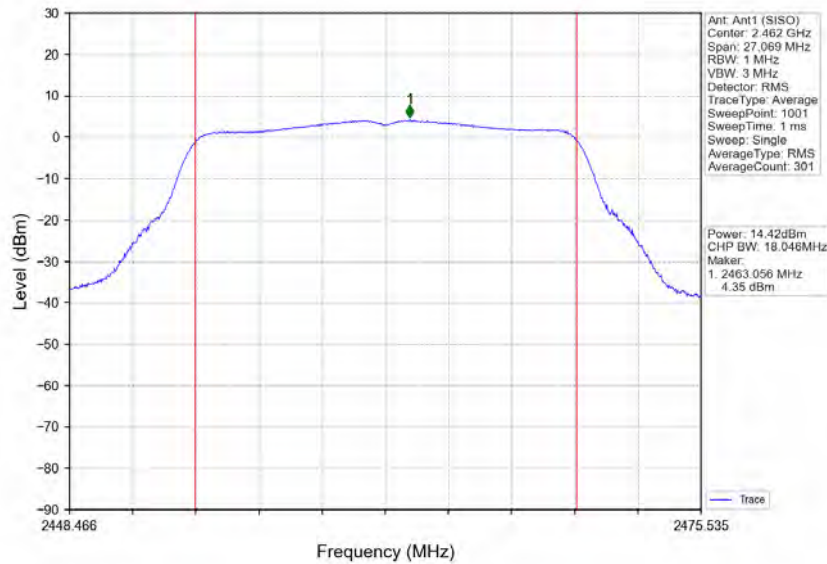
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



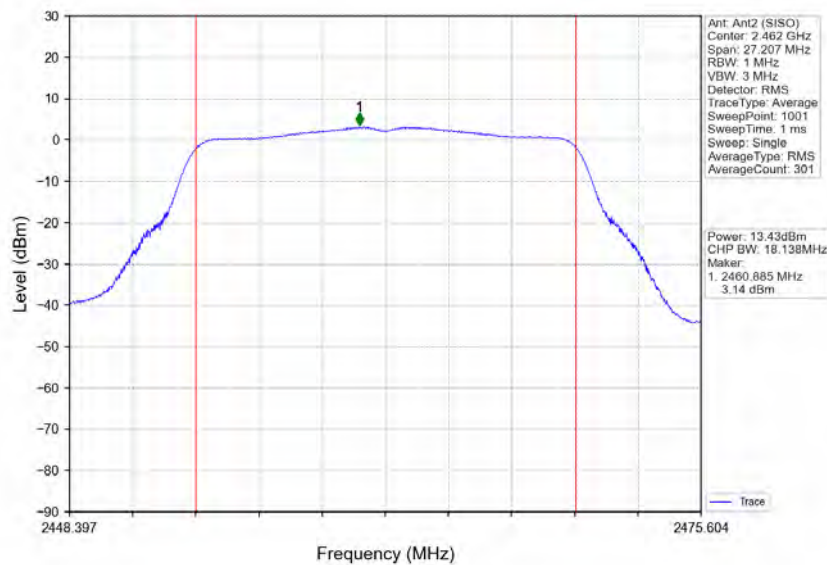
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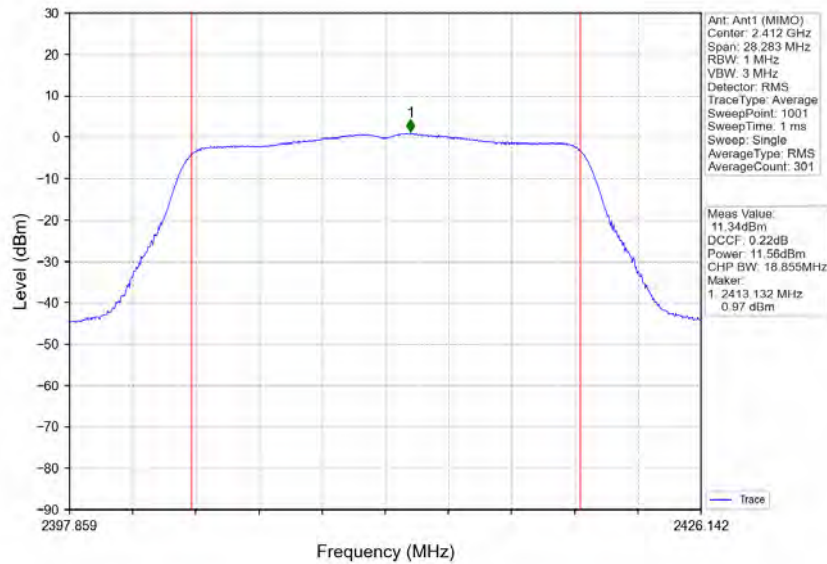
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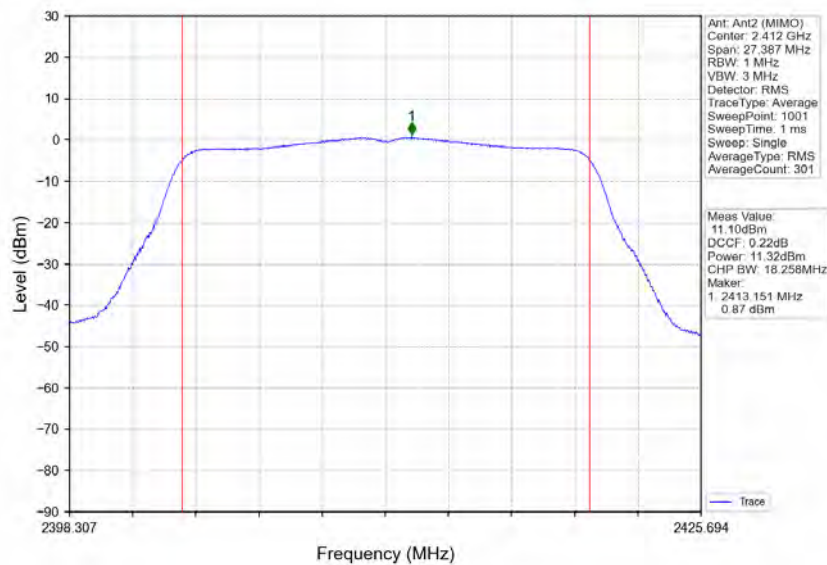
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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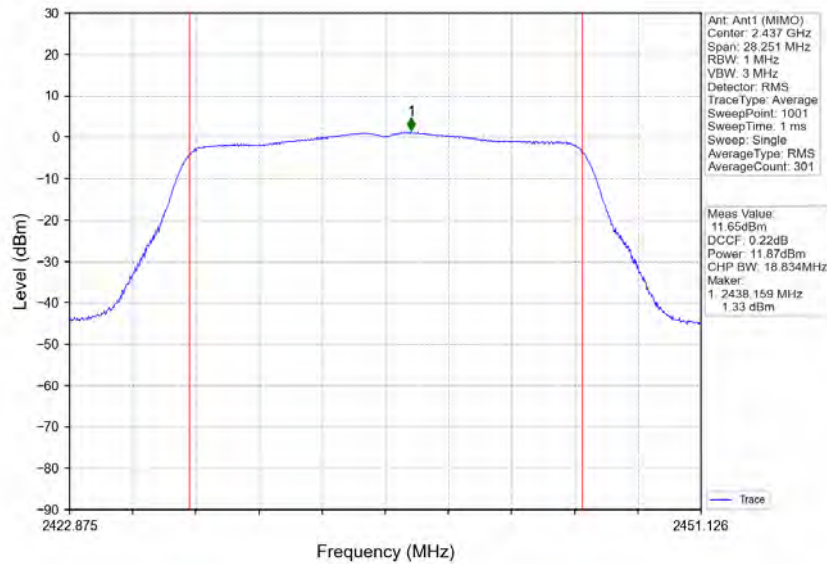
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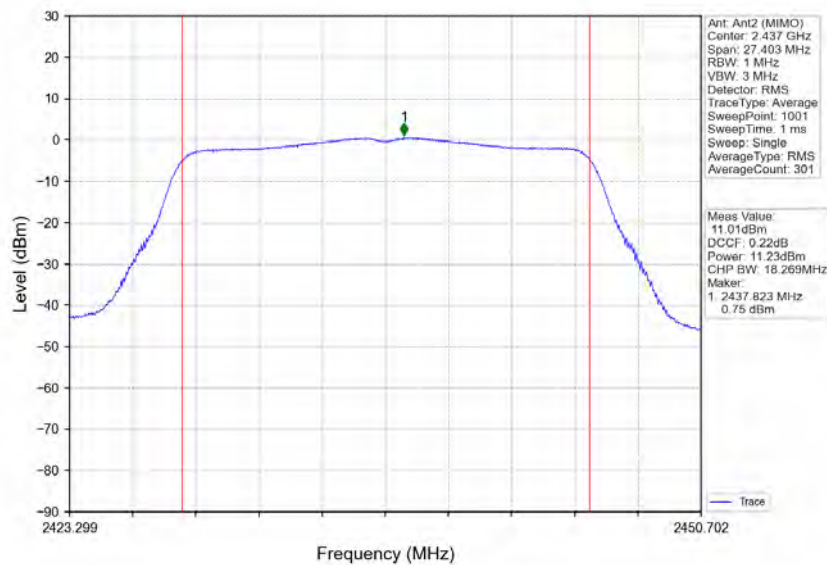
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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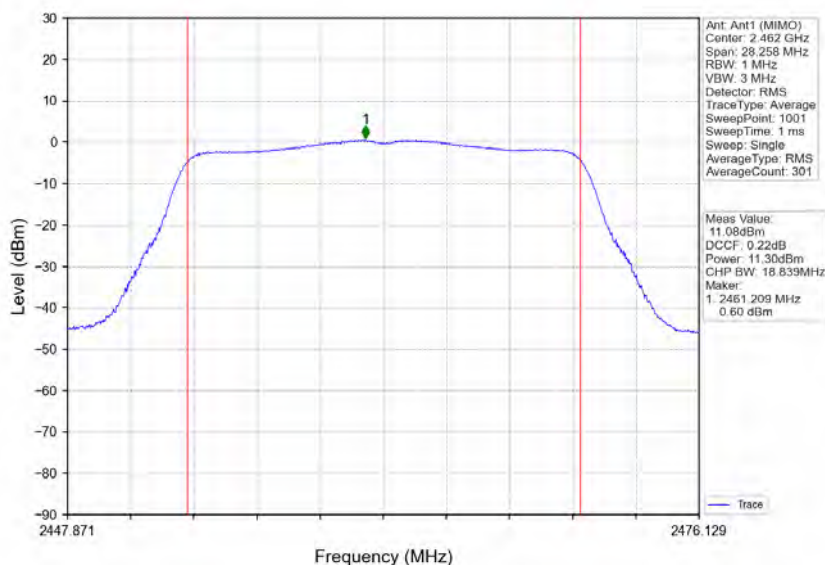
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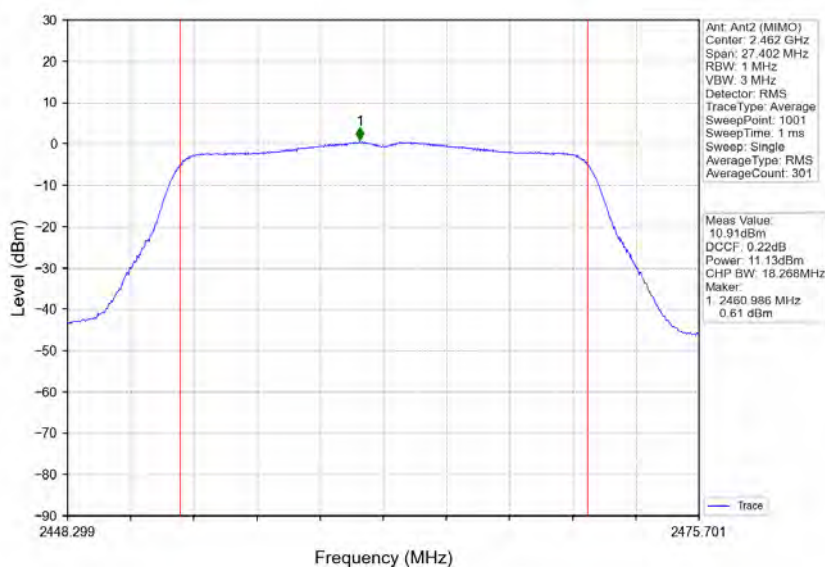
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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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	-5.89	-8.63	/	<=8	Pass
		2437	-7.47	-7.94	/	<=8	Pass
		2462	-7.10	-8.18	/	<=8	Pass
802.11g	SISO	2412	-9.10	-9.96	/	<=8	Pass
		2437	-9.96	-10.43	/	<=8	Pass
		2462	-10.20	-10.96	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-12.35	-13.46	-10.60	<=8	Pass
		2437	-12.52	-13.05	-10.18	<=8	Pass
		2462	-13.23	-12.86	-10.91	<=8	Pass

Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 3.42dBi;
Note2: Directional Gain: 5.56dBi



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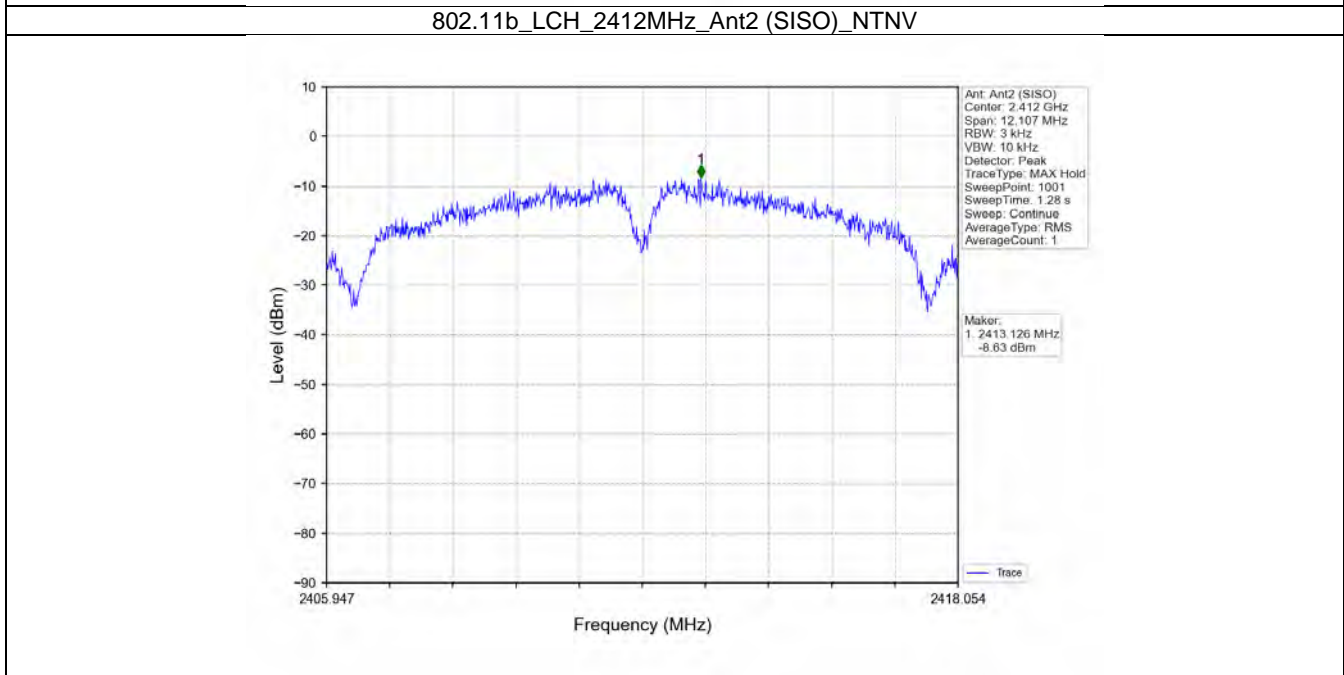
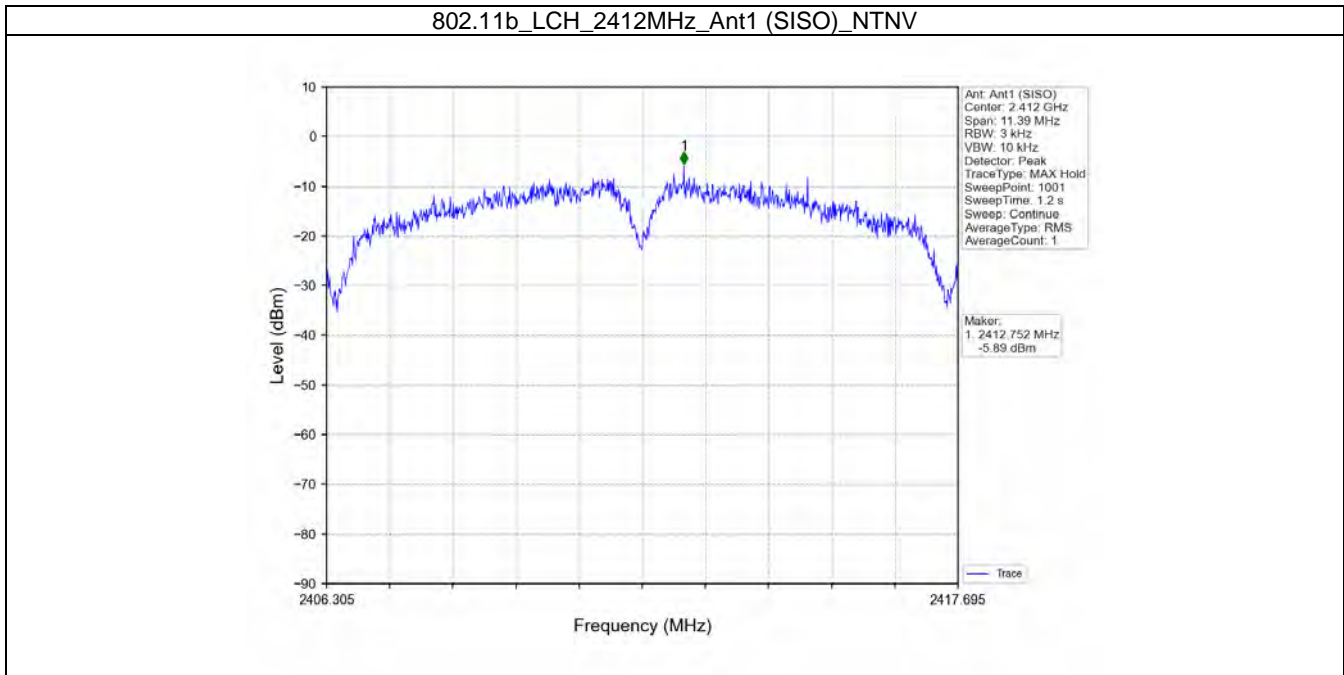
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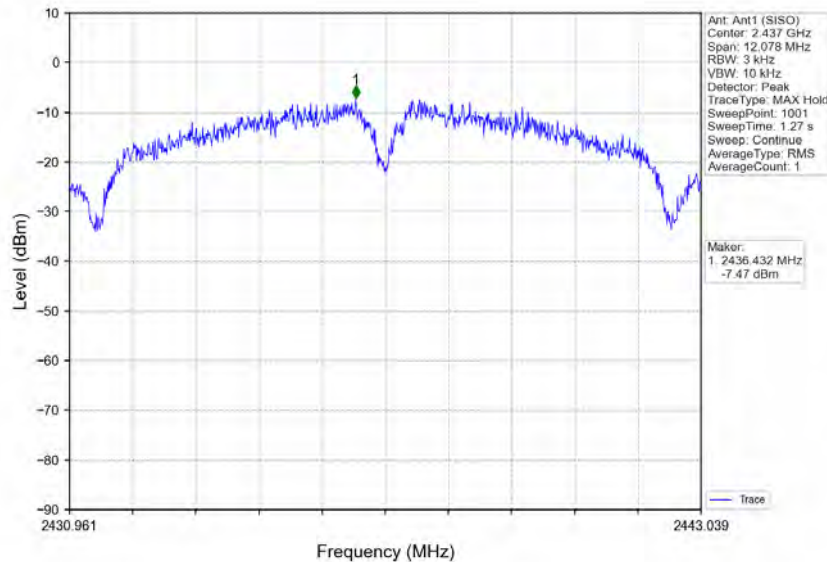
4.1.2 Test Graph



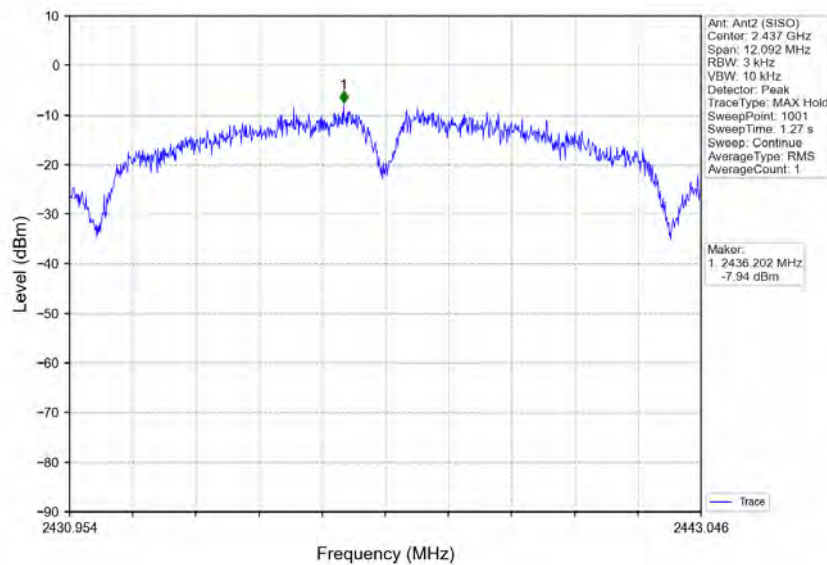
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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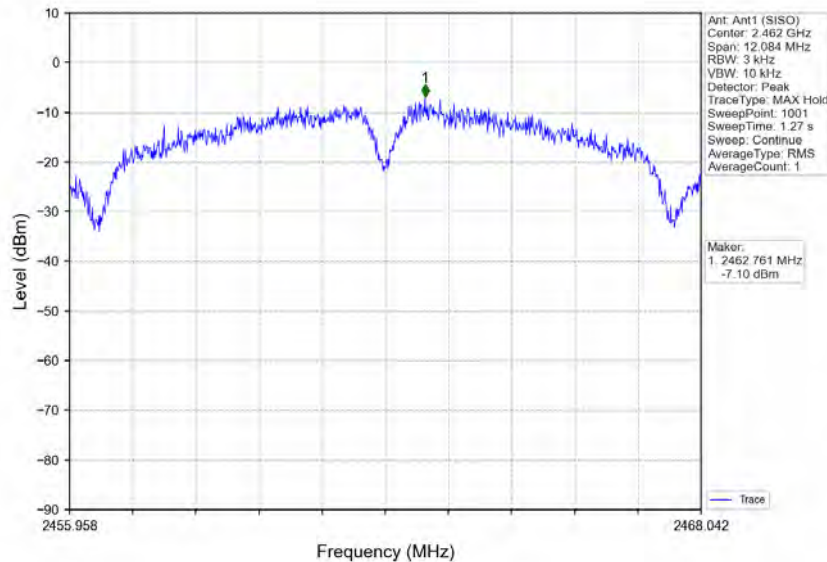
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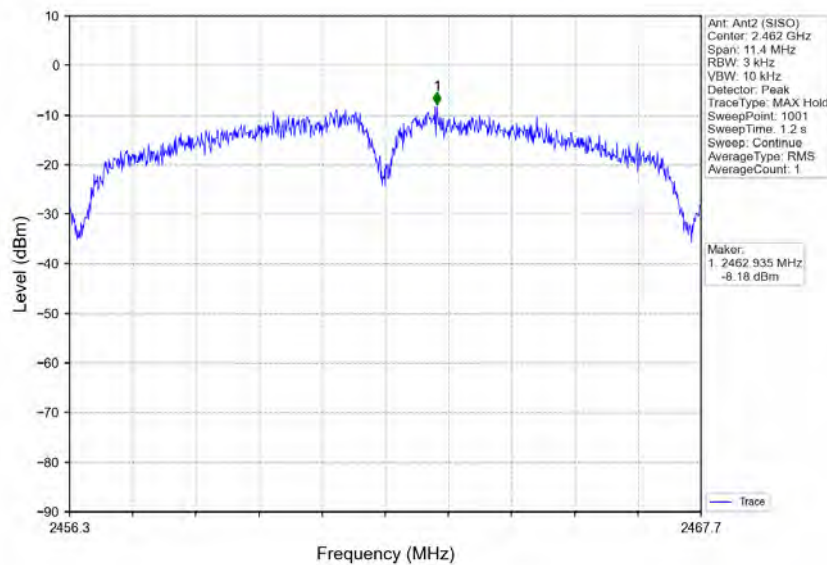
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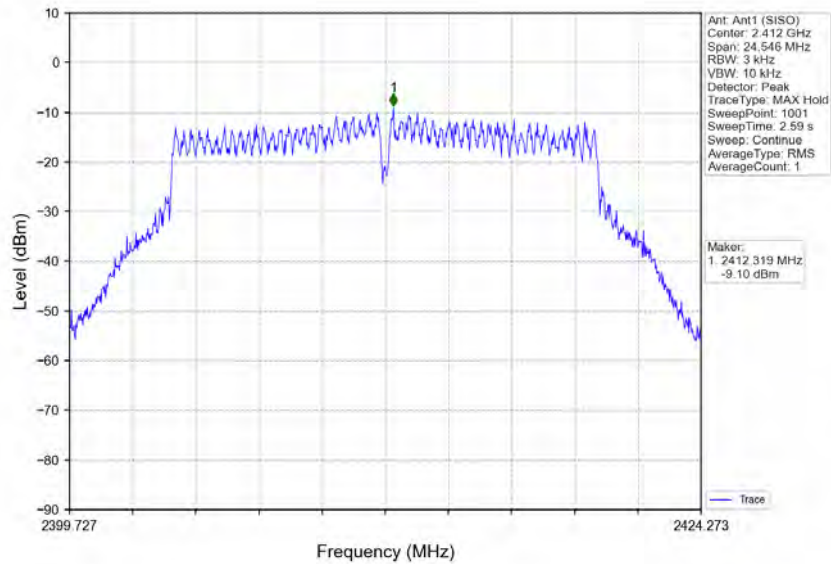
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



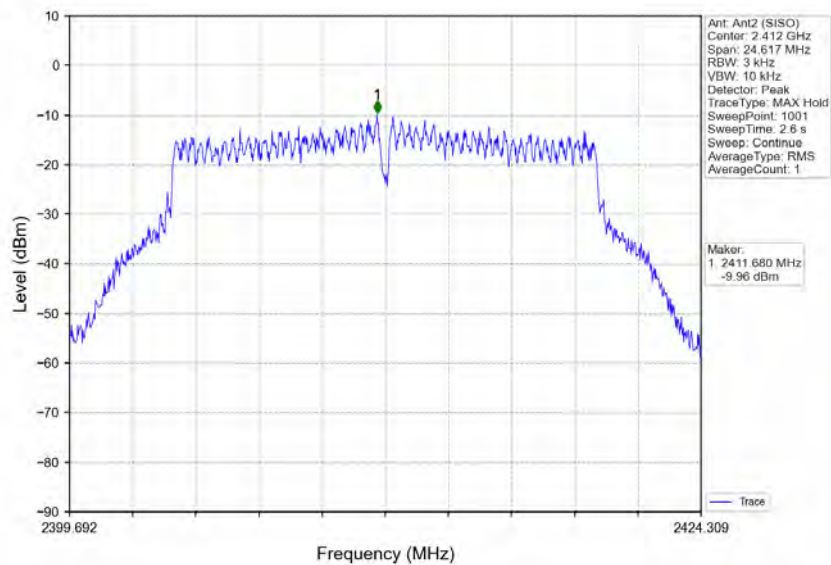
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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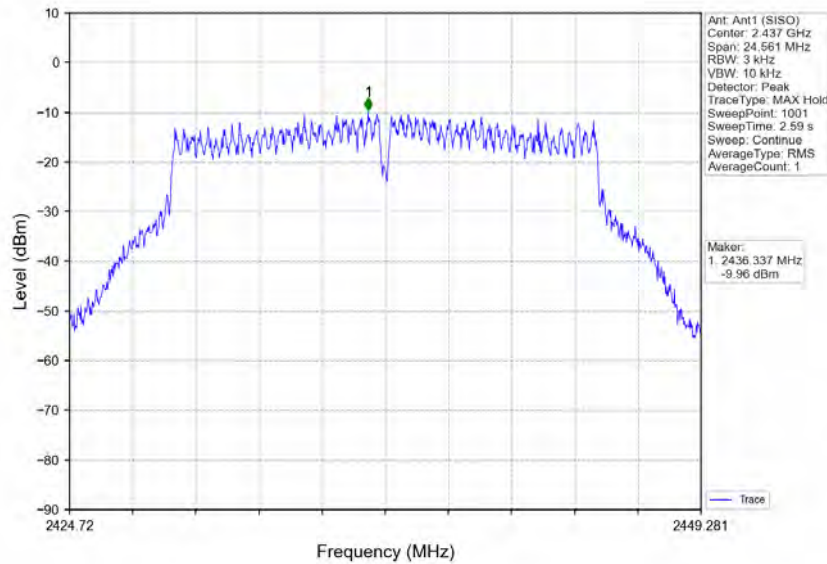
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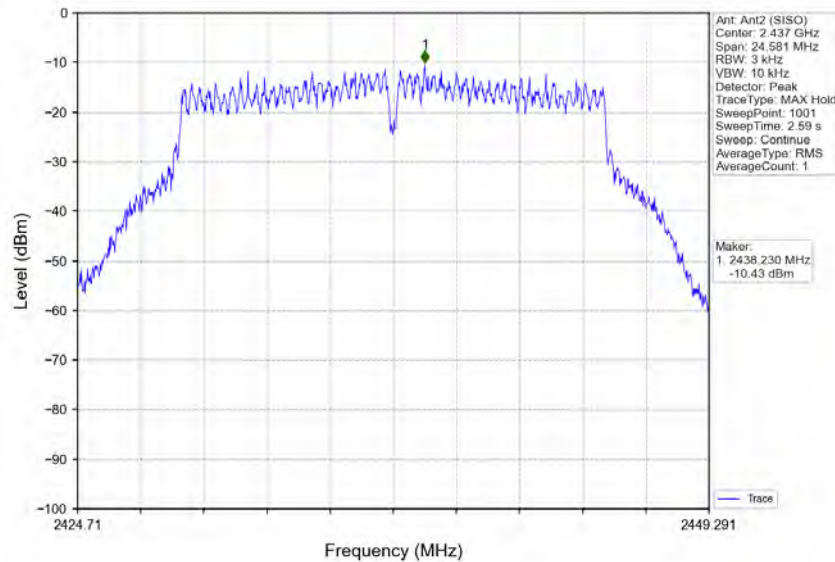
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



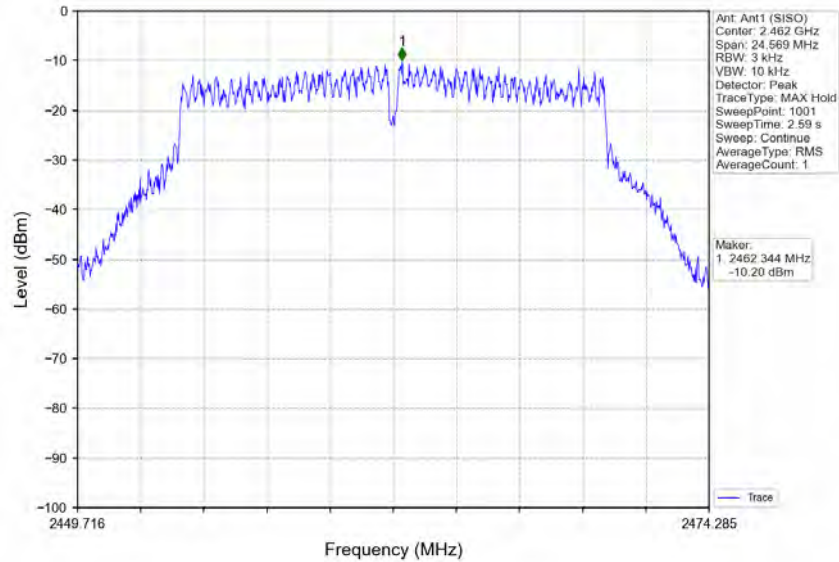
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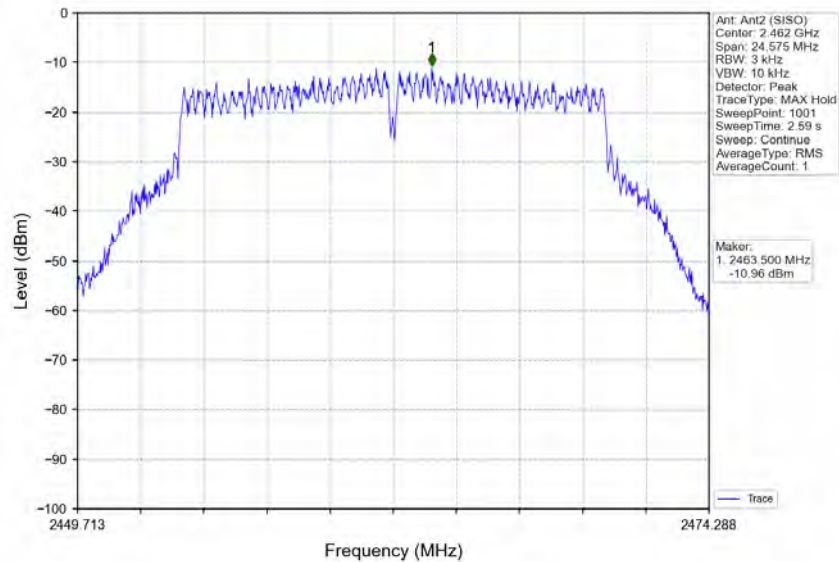
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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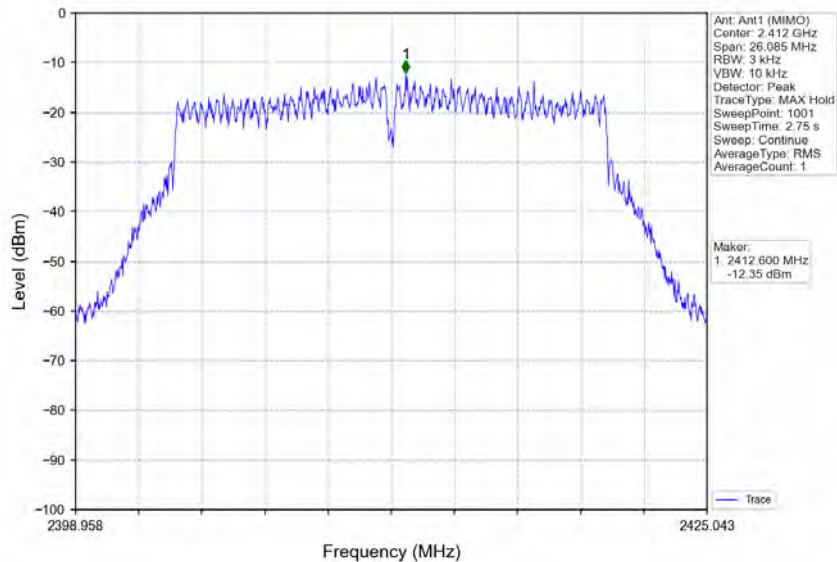
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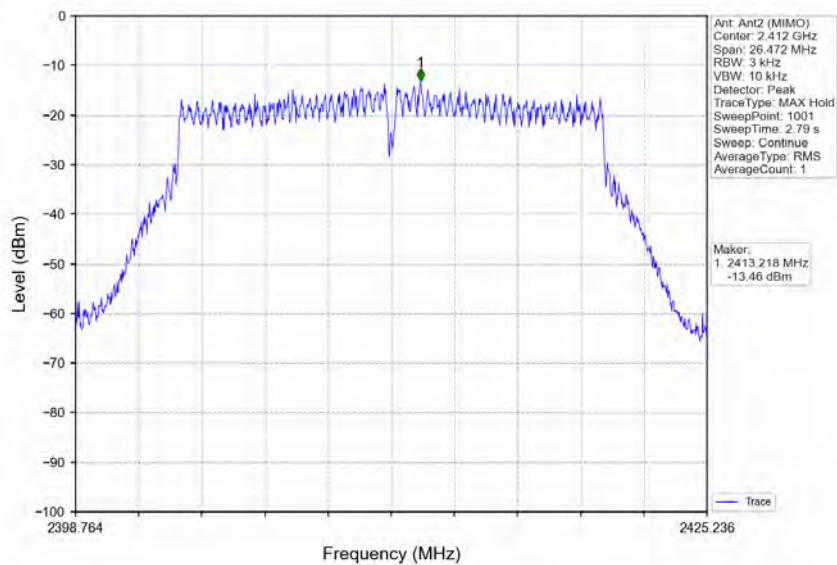
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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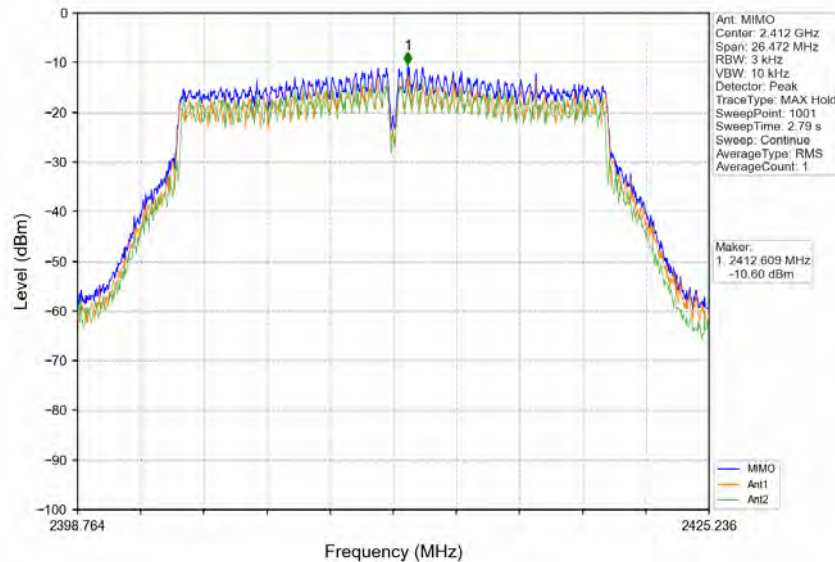
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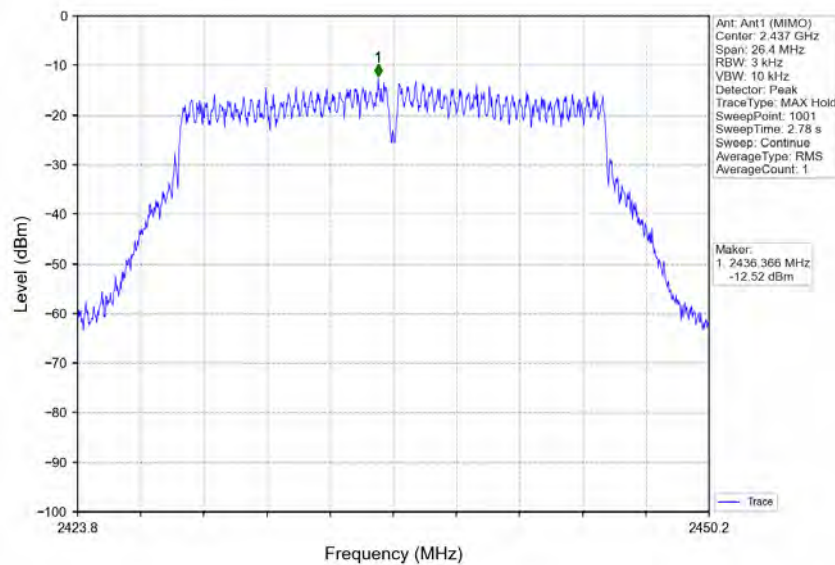
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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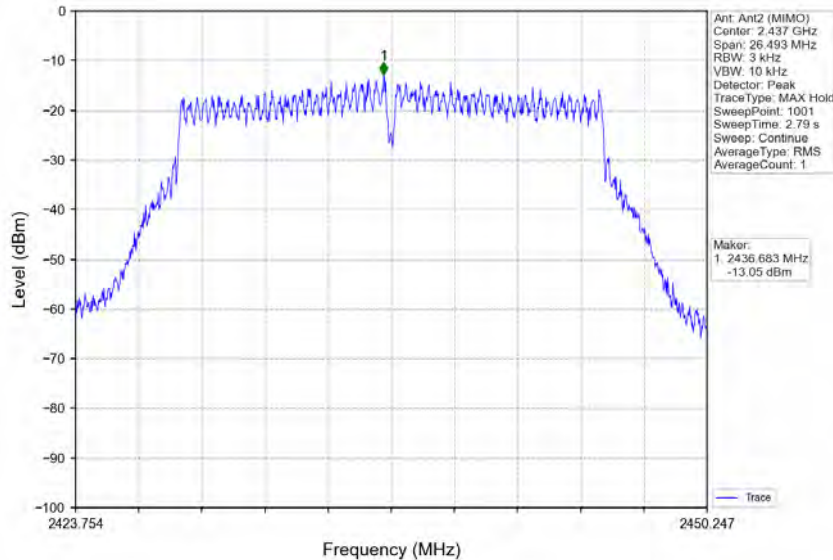
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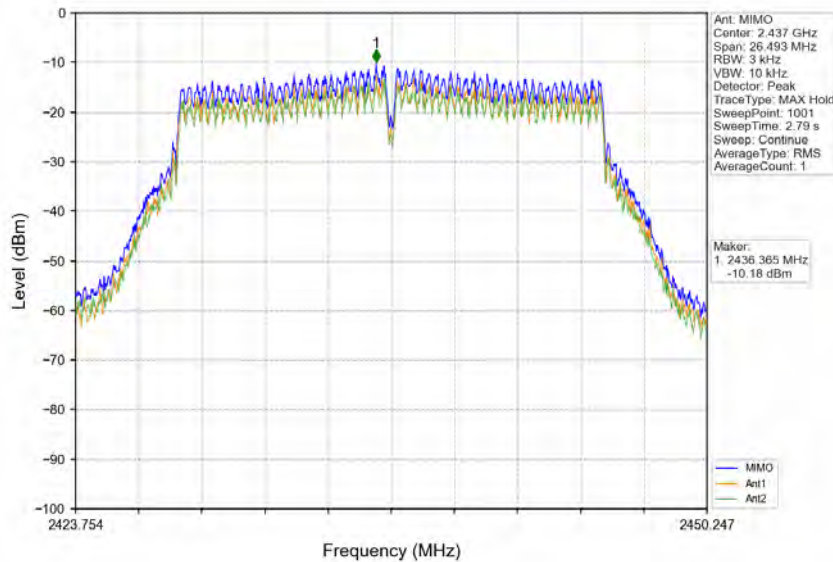
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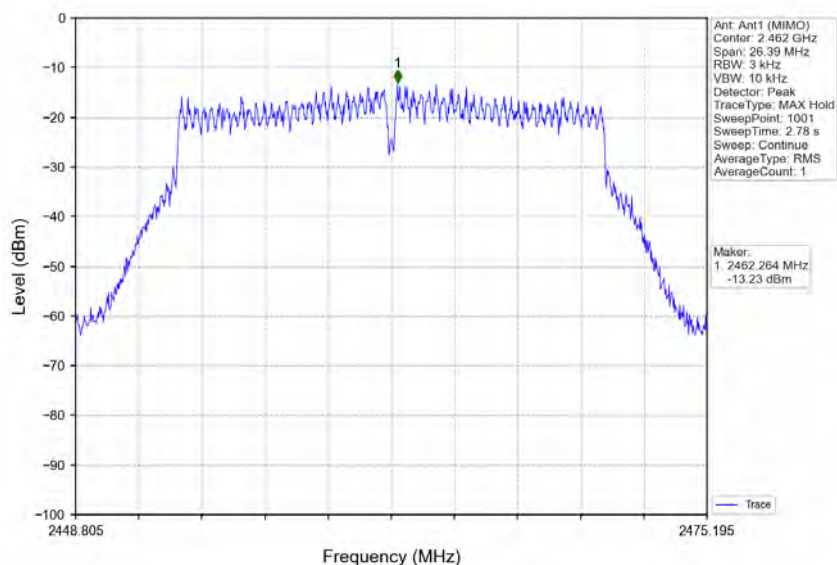
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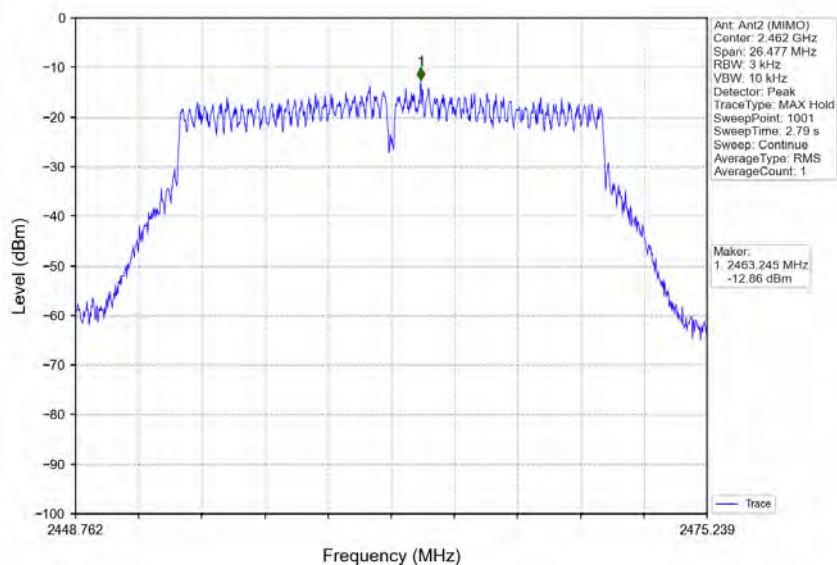
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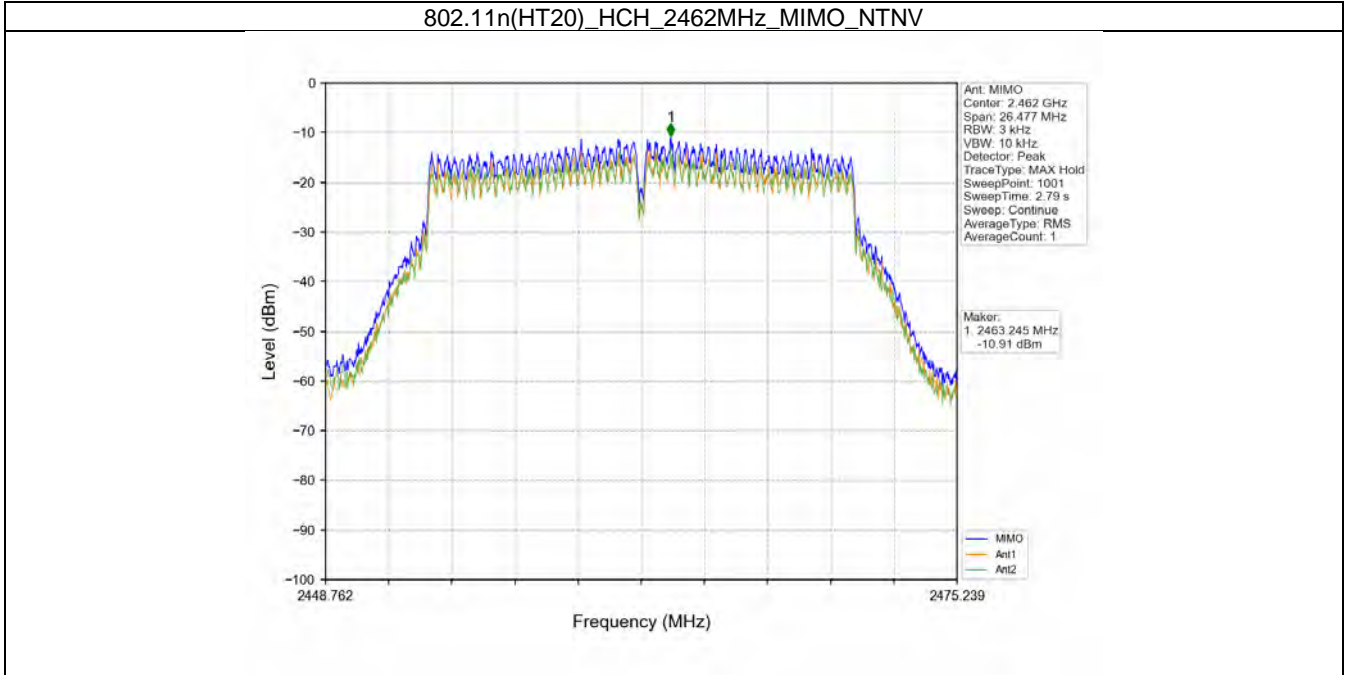
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.94
			2	6.27
		2437	1	7.40
			2	6.39
		2462	1	6.75
			2	5.96
802.11g	SISO	2412	1	2.66
			2	1.92
		2437	1	3.11
			2	1.84
		2462	1	2.75
			2	1.66
802.11n (HT20)	MIMO	2412	1	0.08
			2	-0.52
		2437	1	0.08
			2	-0.70
		2462	1	-0.83
			2	-0.47

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.

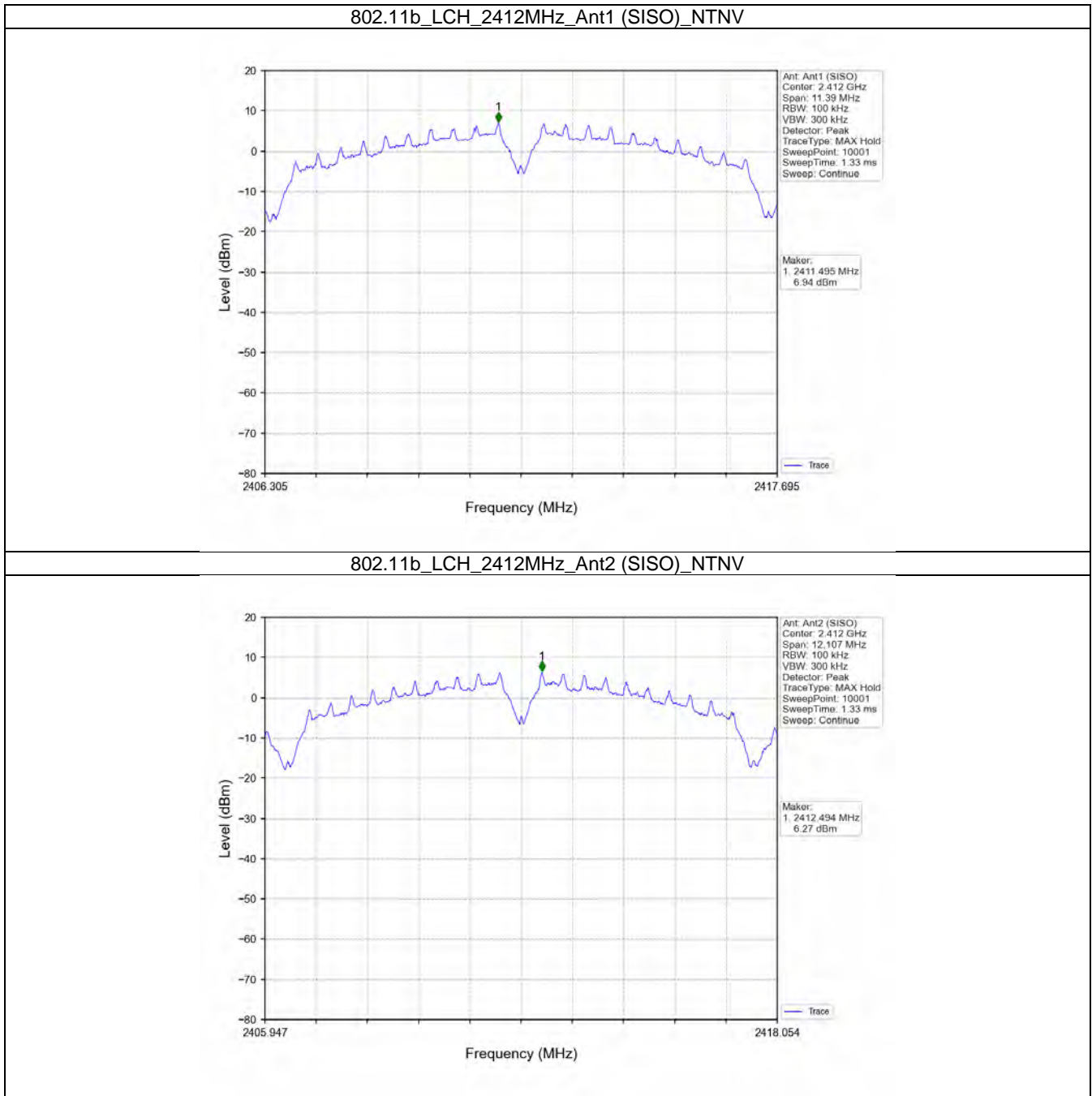


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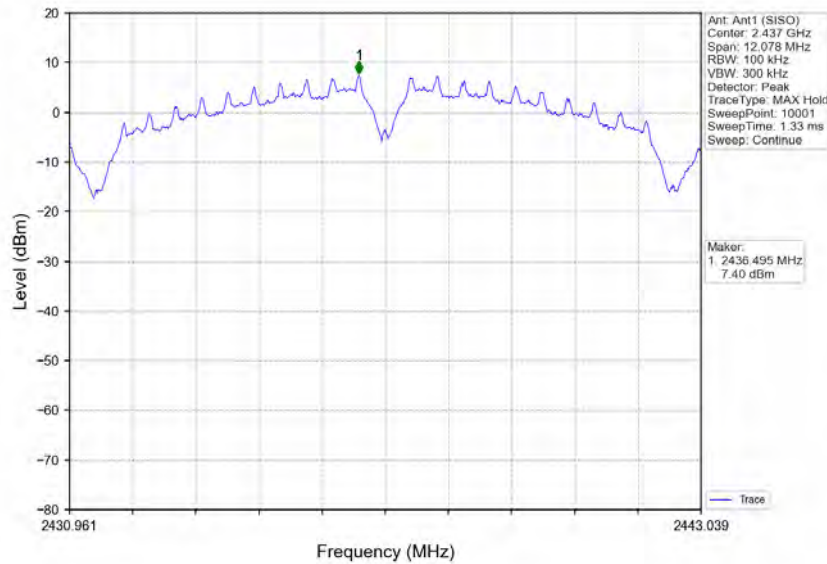
5.1.2 Test Graph



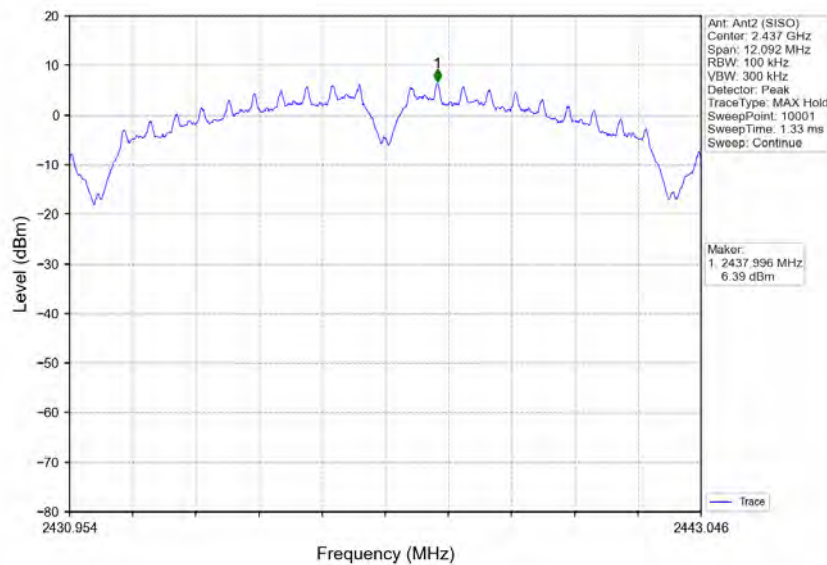
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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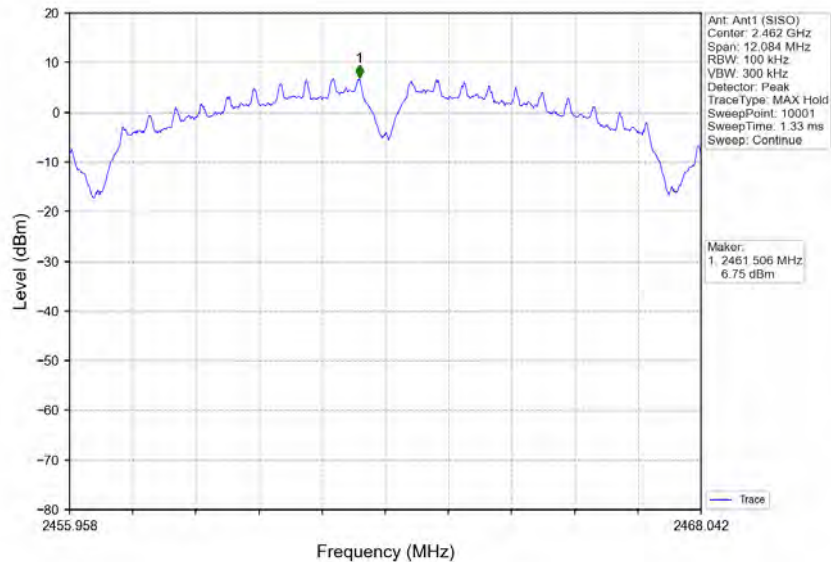
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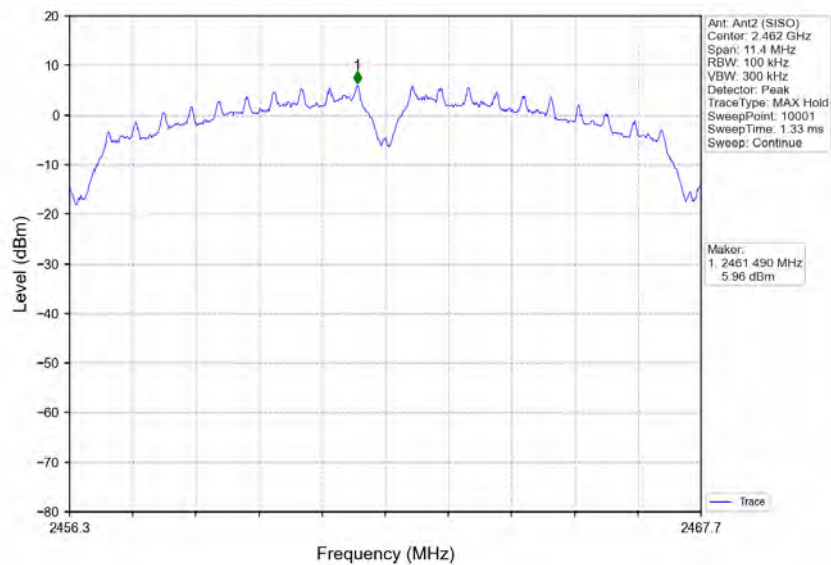
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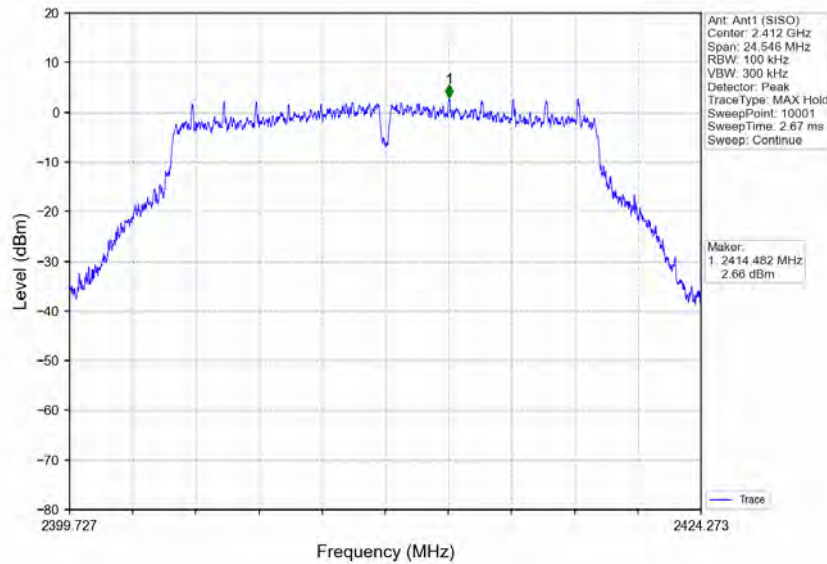
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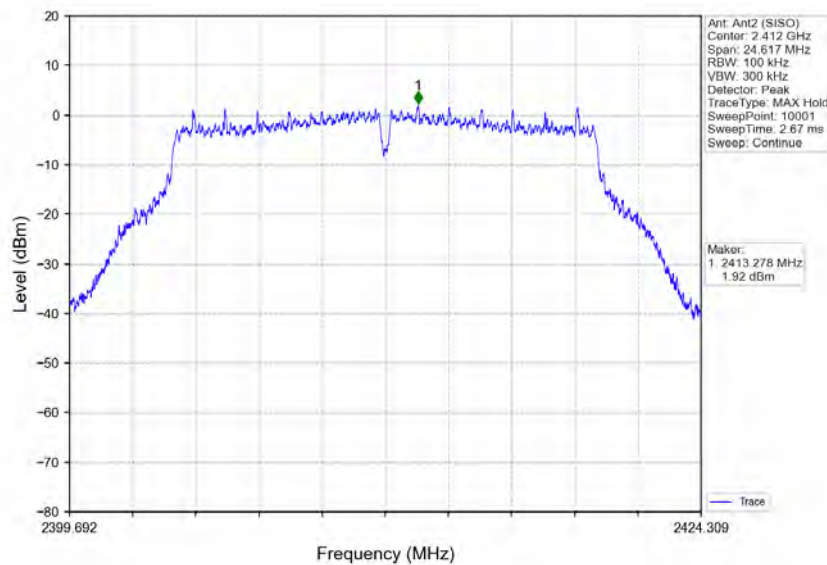
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



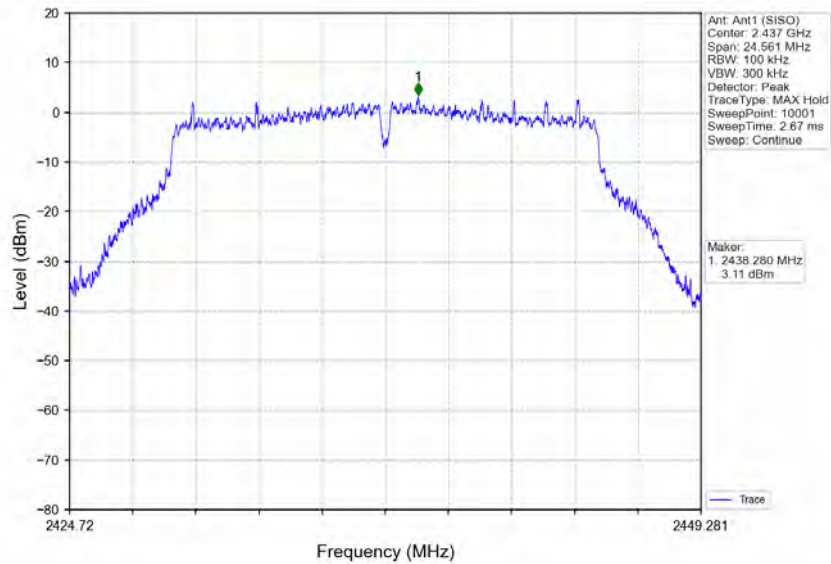
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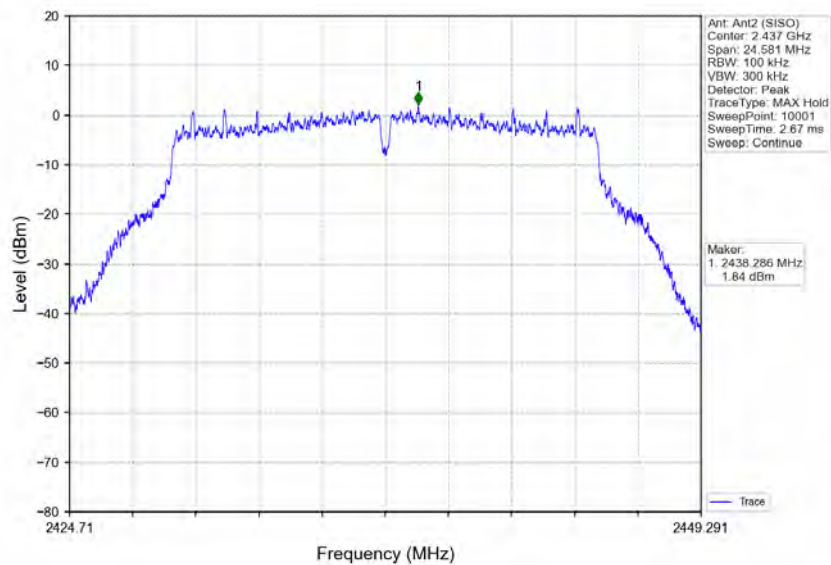
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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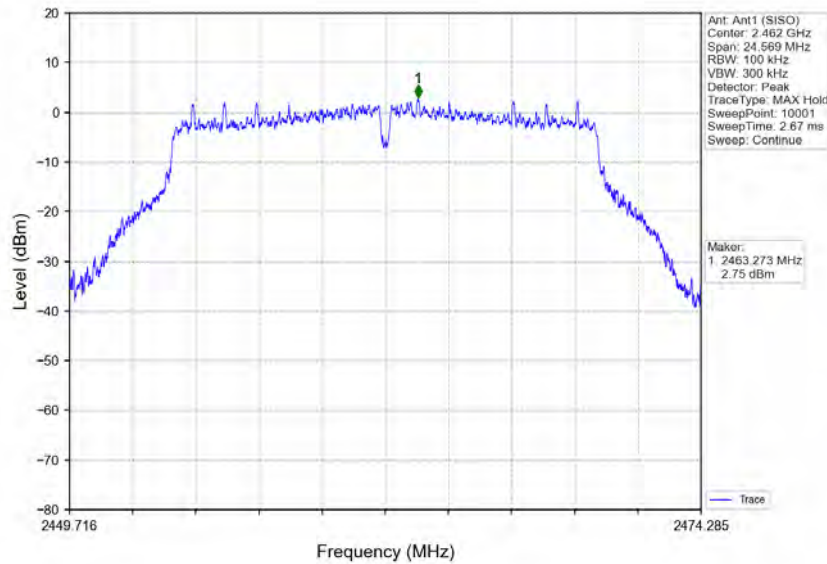
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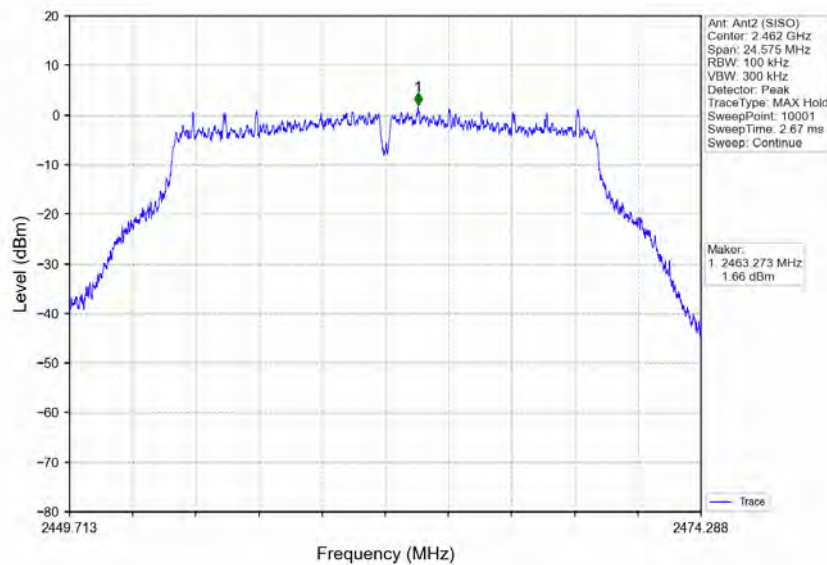
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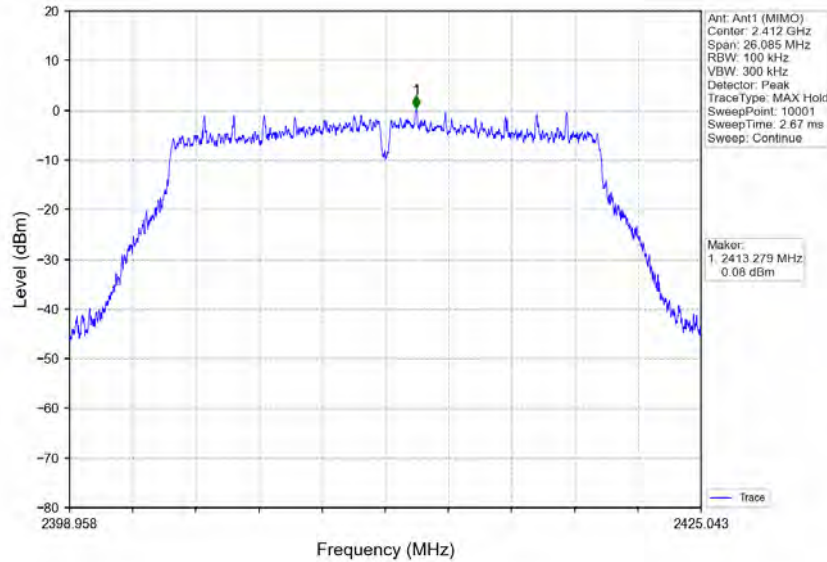
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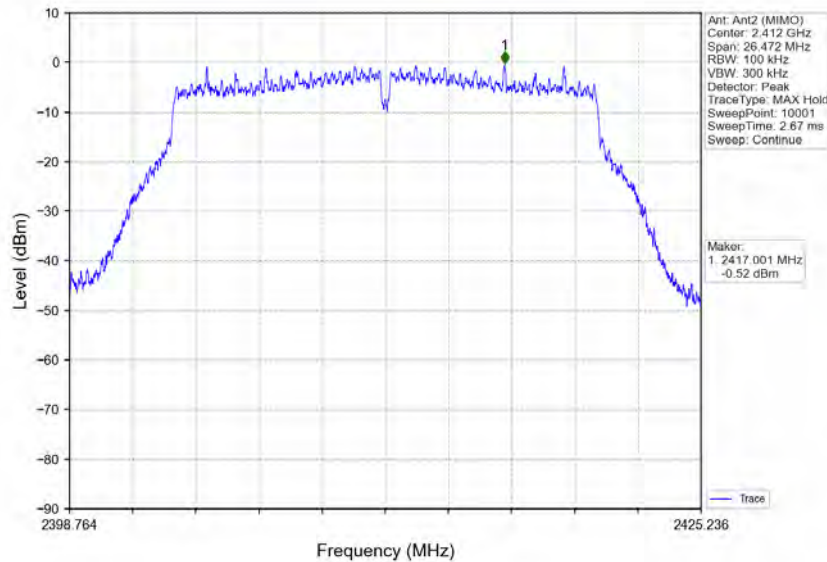
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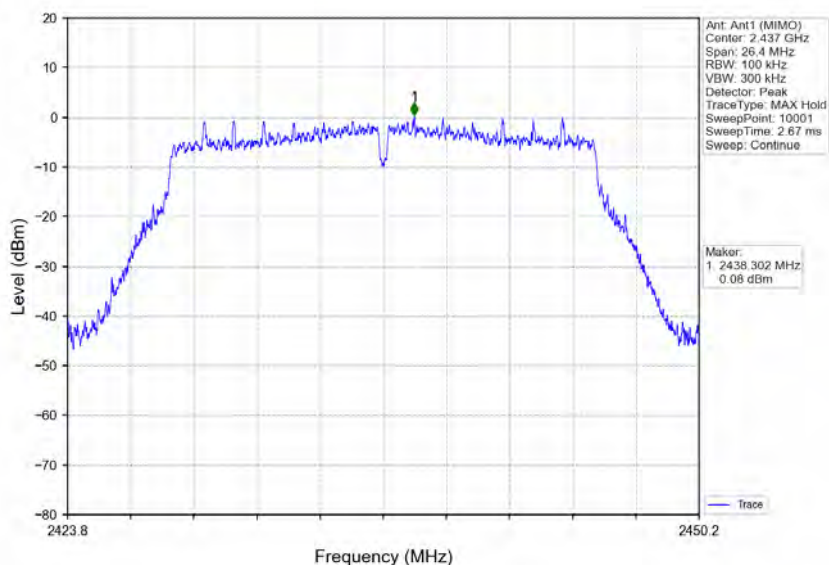
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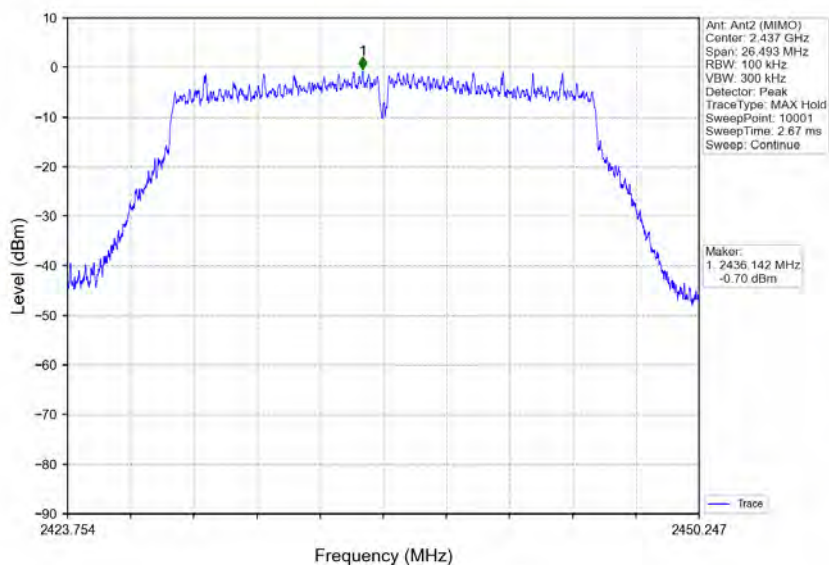
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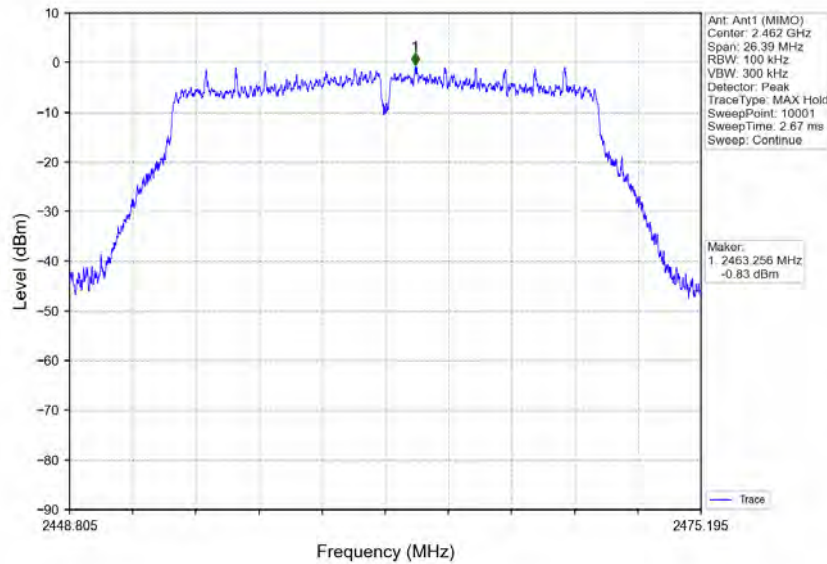
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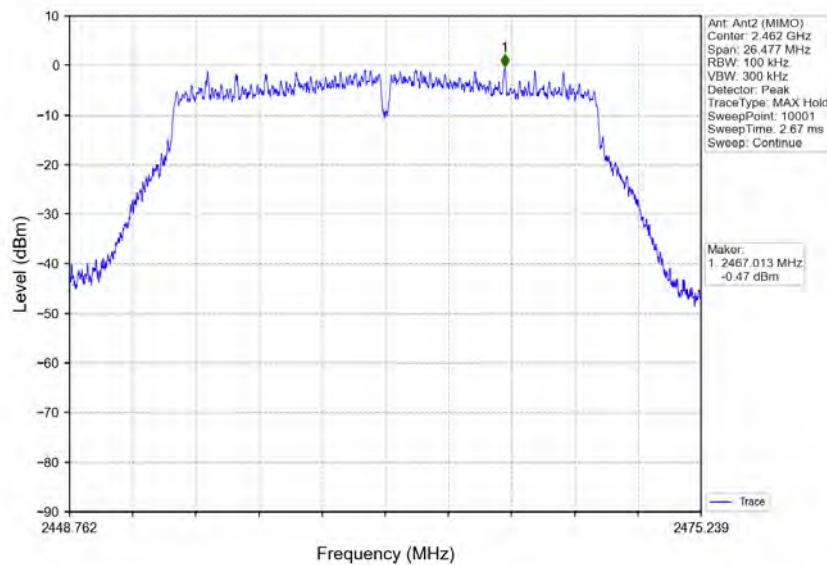
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.40	-22.60	Pass
			2	6.39	-23.61	Pass
		2437	1	7.40	-22.60	Pass
			2	6.39	-23.61	Pass
		2462	1	7.40	-22.60	Pass
			2	6.39	-23.61	Pass
802.11g	SISO	2412	1	3.11	-26.89	Pass
			2	1.92	-28.08	Pass
		2437	1	3.11	-26.89	Pass
			2	1.92	-28.08	Pass
		2462	1	3.11	-26.89	Pass
			2	1.92	-28.08	Pass
802.11n (HT20)	MIMO	2412	1	0.08	-29.92	Pass
			2	-0.47	-30.47	Pass
		2437	1	0.08	-29.92	Pass
			2	-0.47	-30.47	Pass
		2462	1	0.08	-29.92	Pass
			2	-0.47	-30.47	Pass

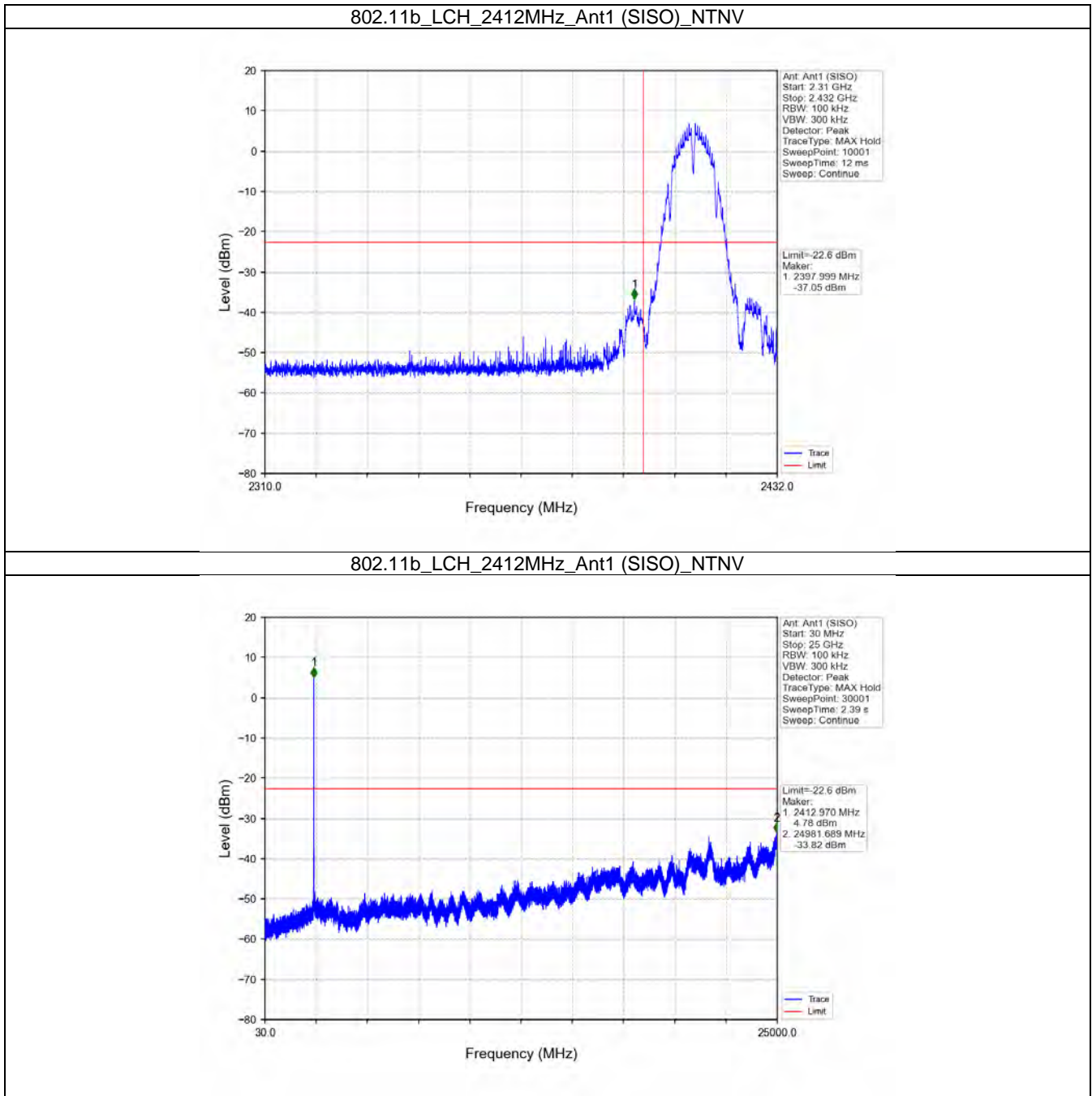
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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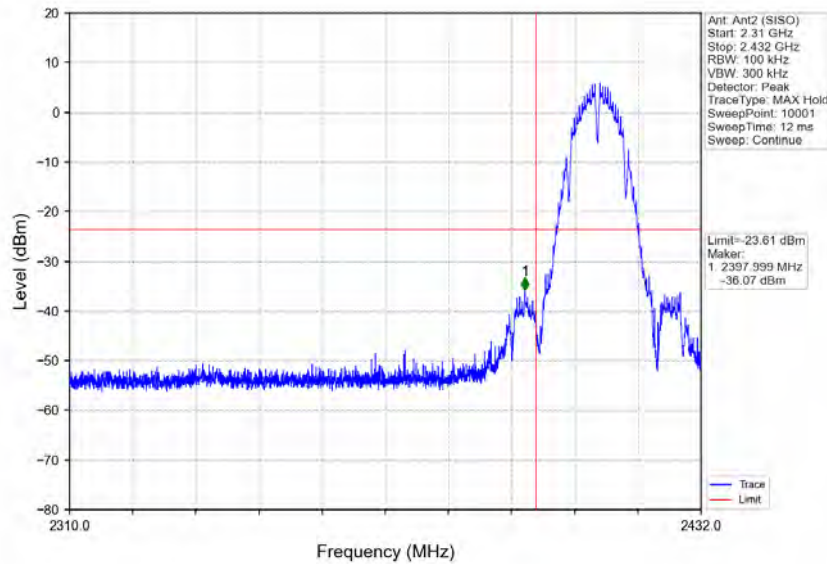
5.2.2 Test Graph



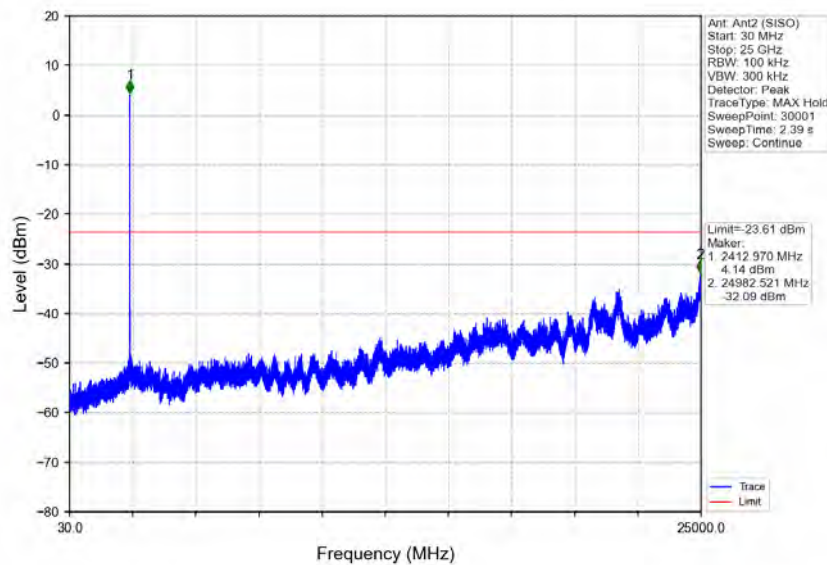
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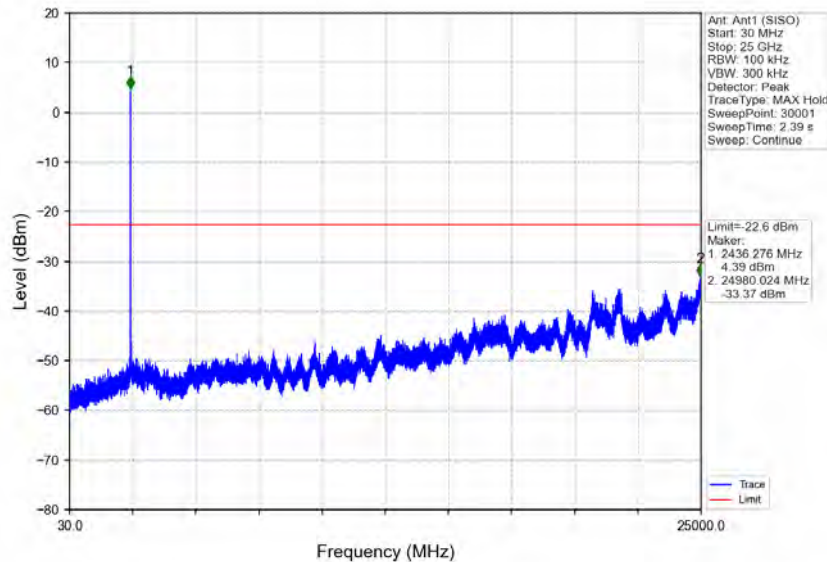
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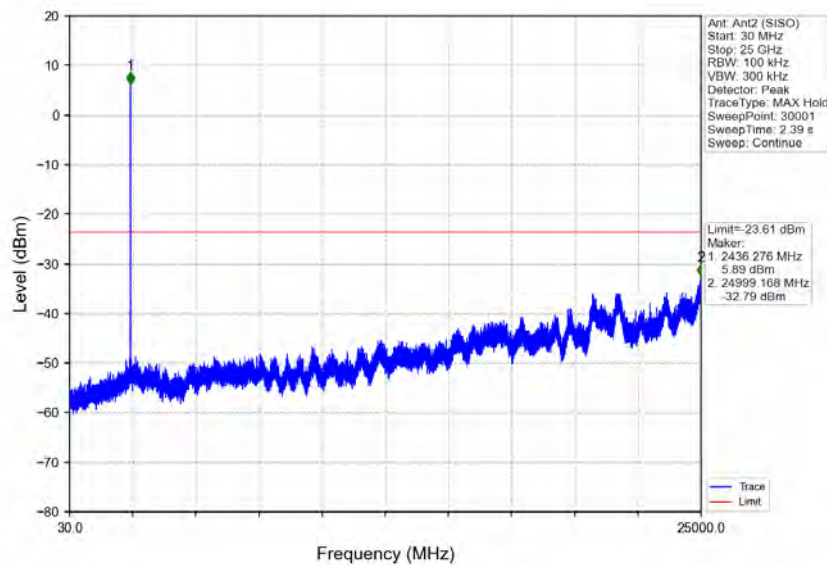
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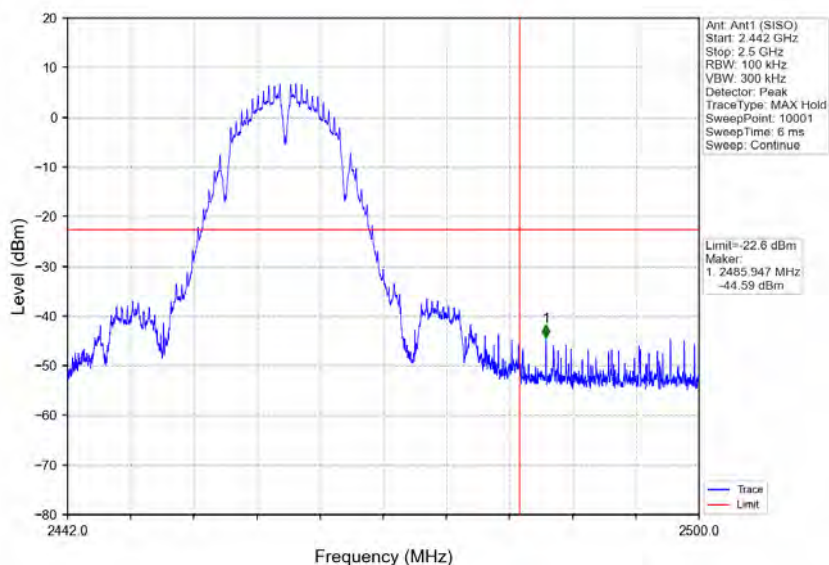
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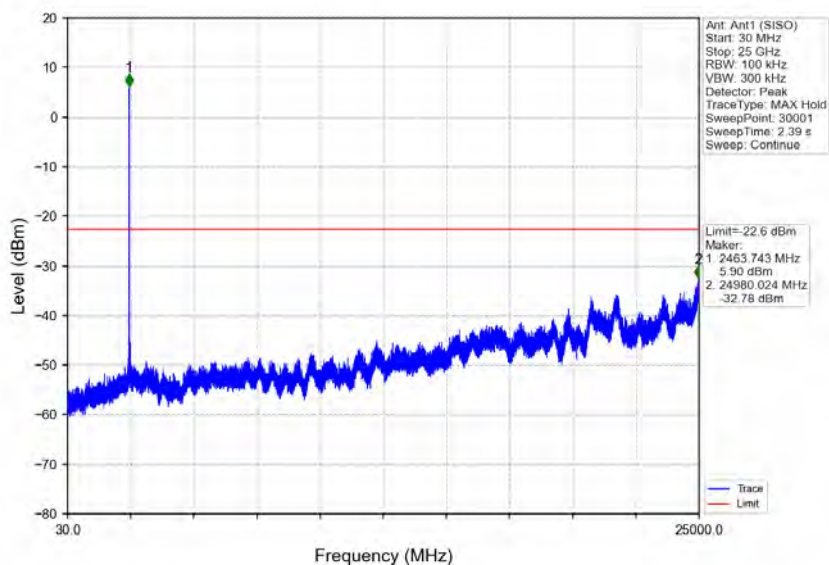
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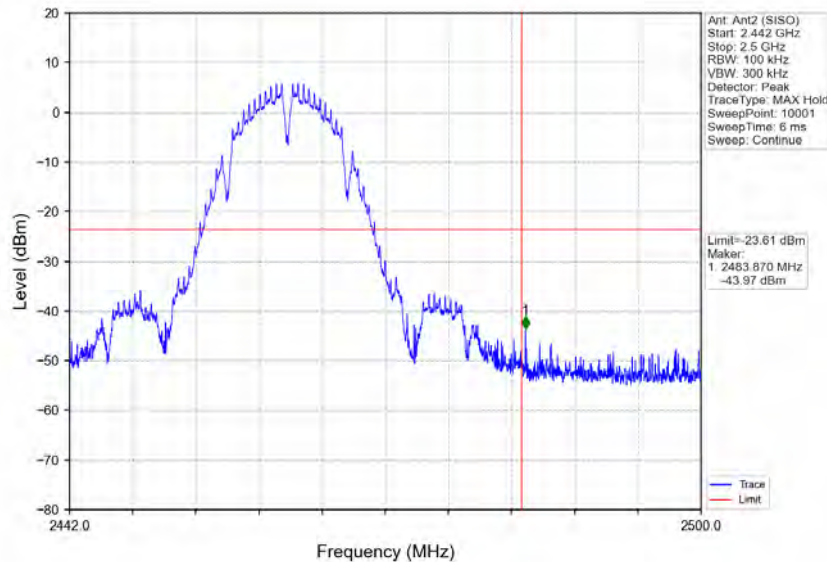
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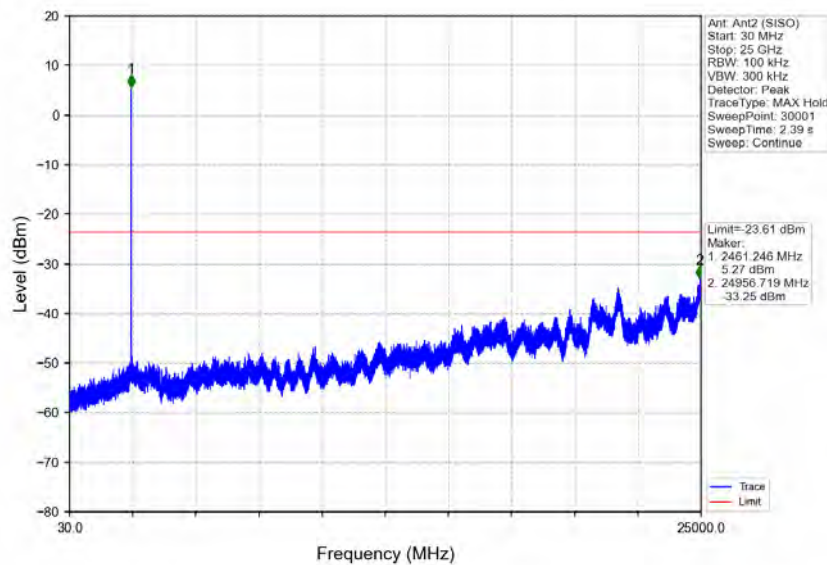
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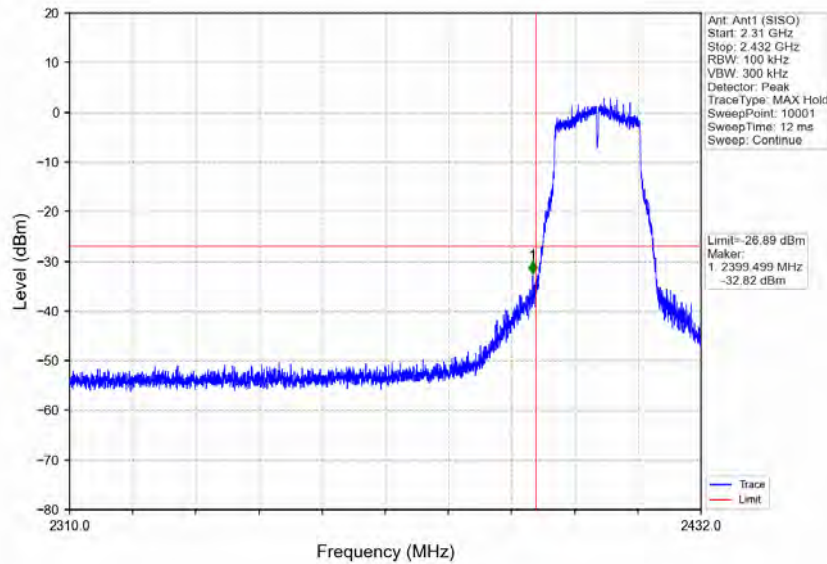
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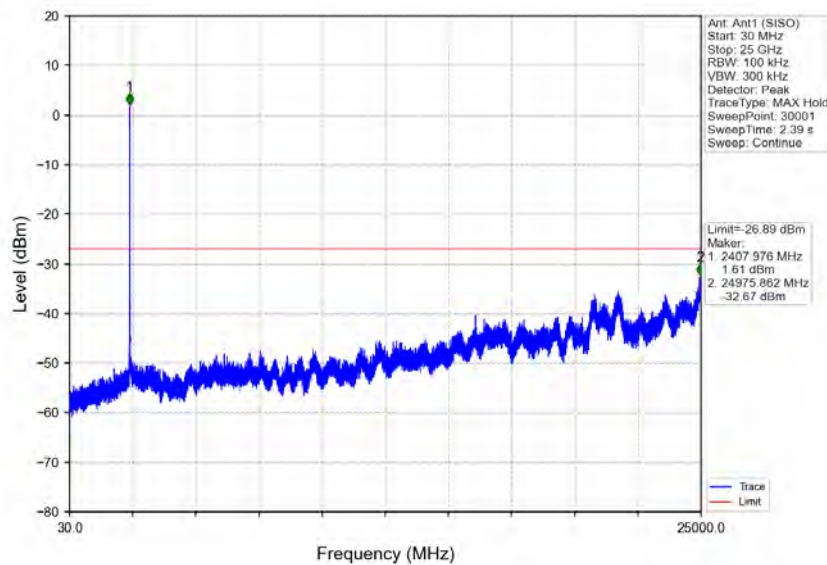
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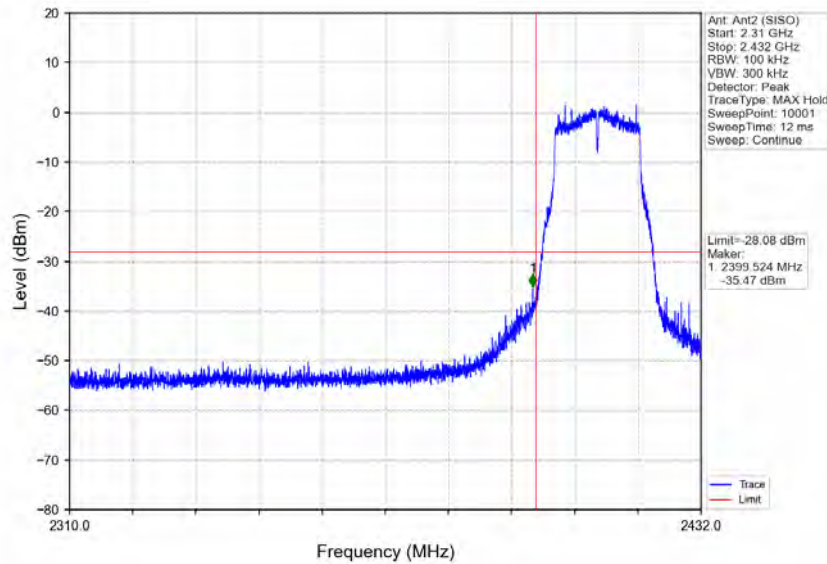
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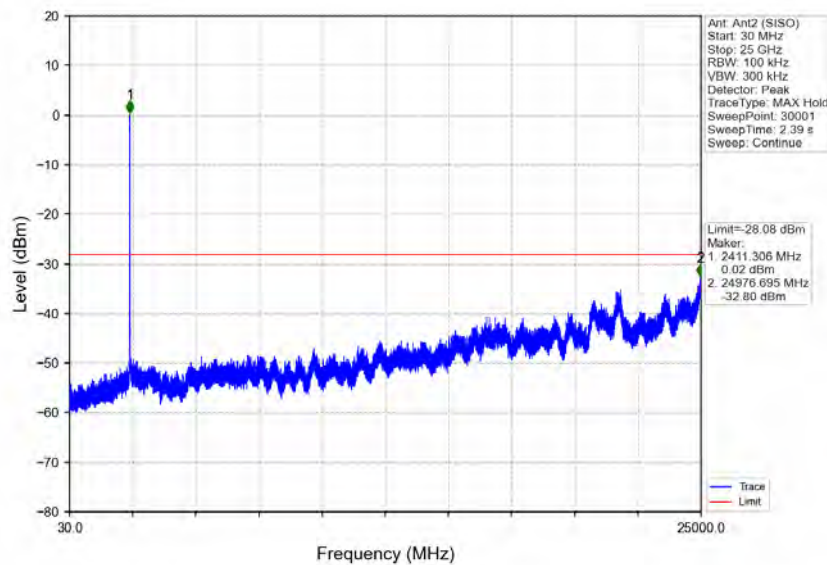
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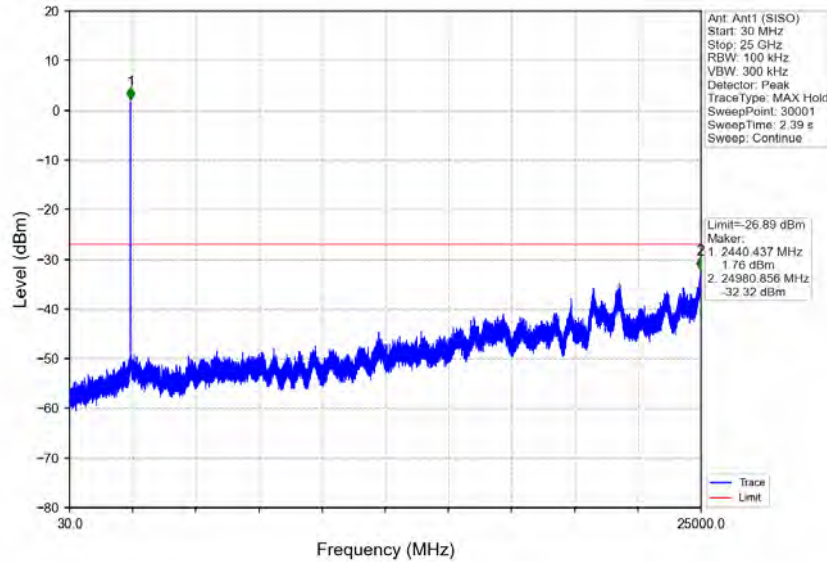
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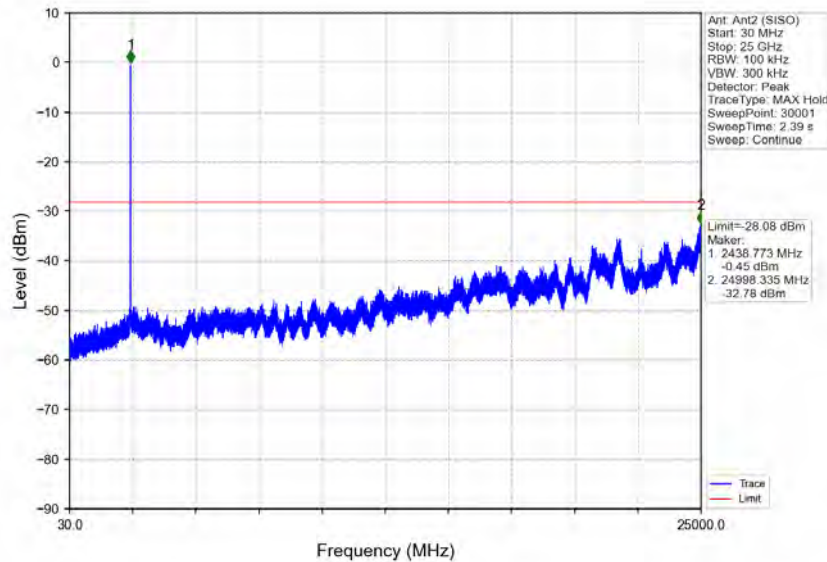
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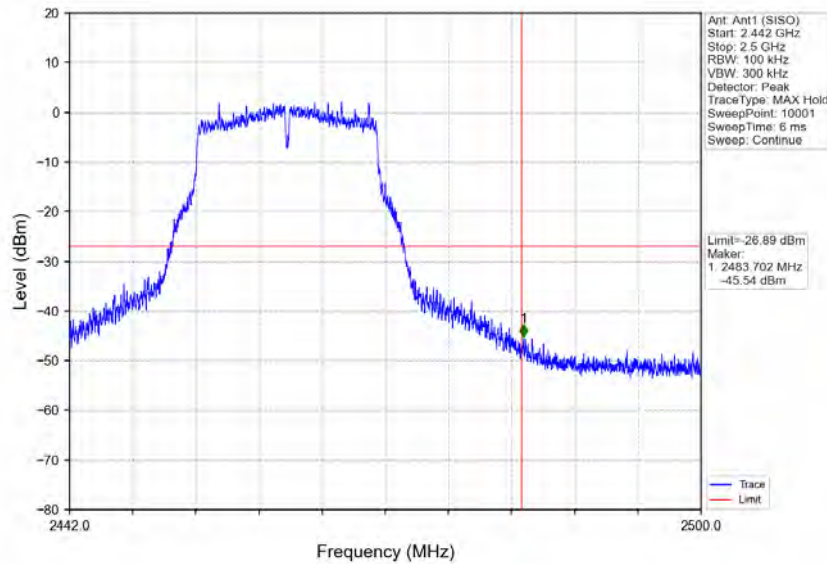
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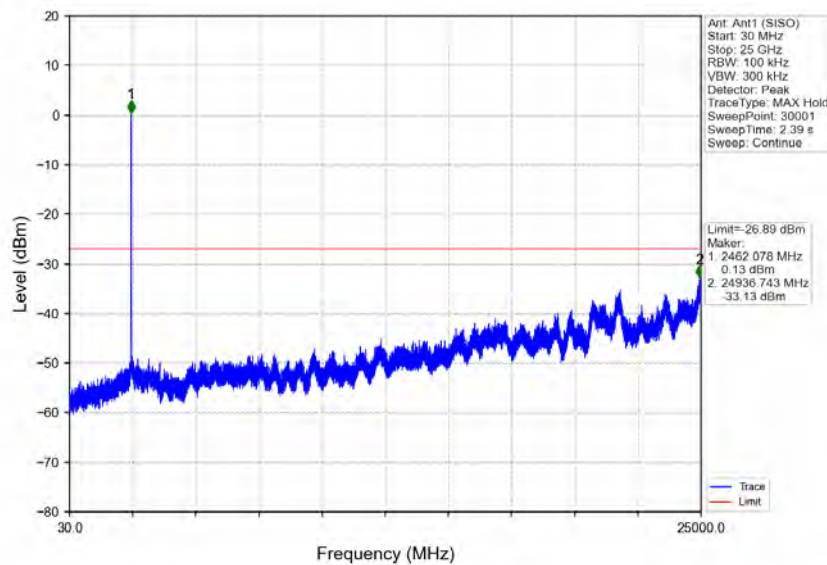
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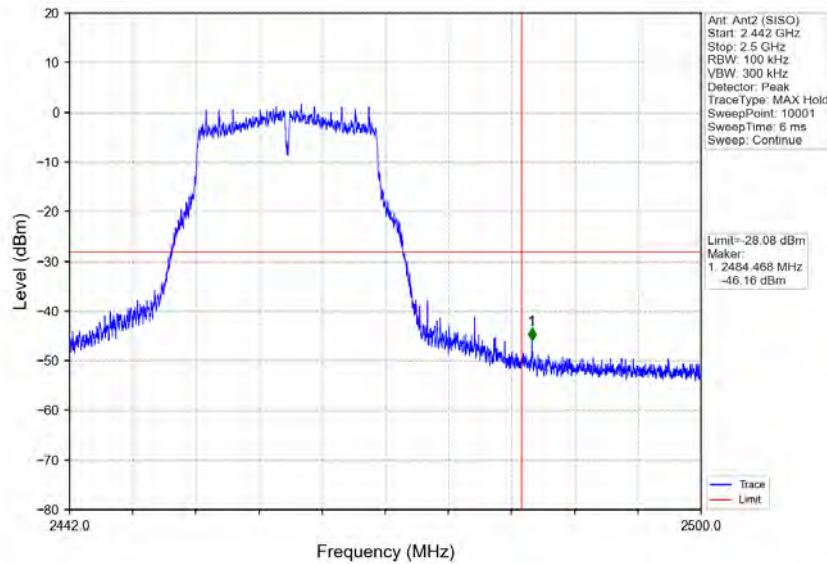
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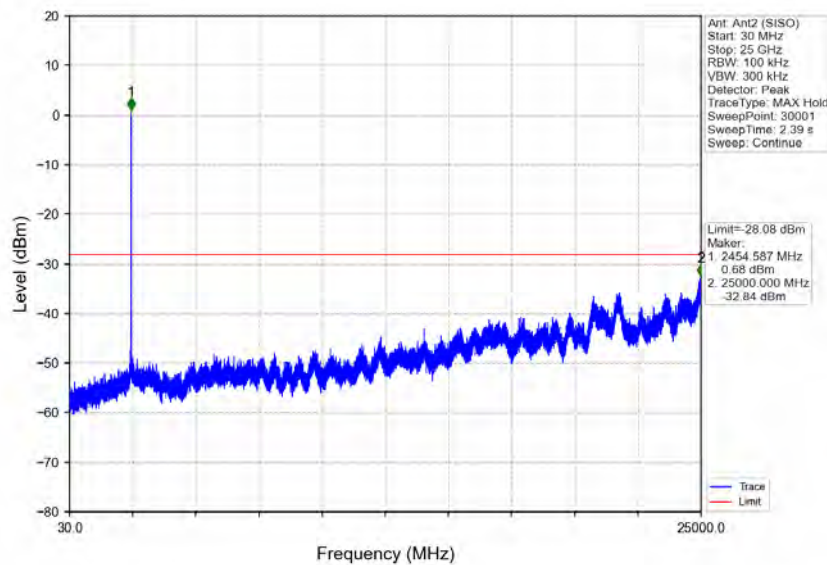
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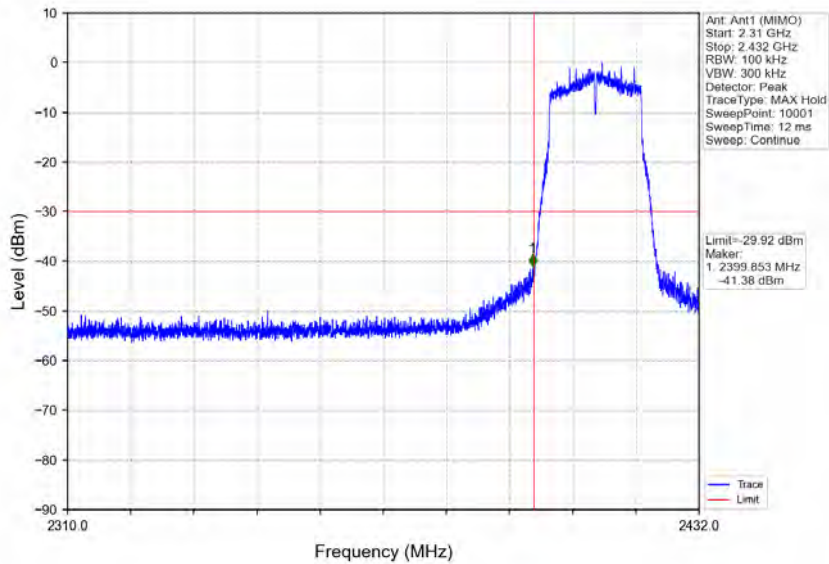
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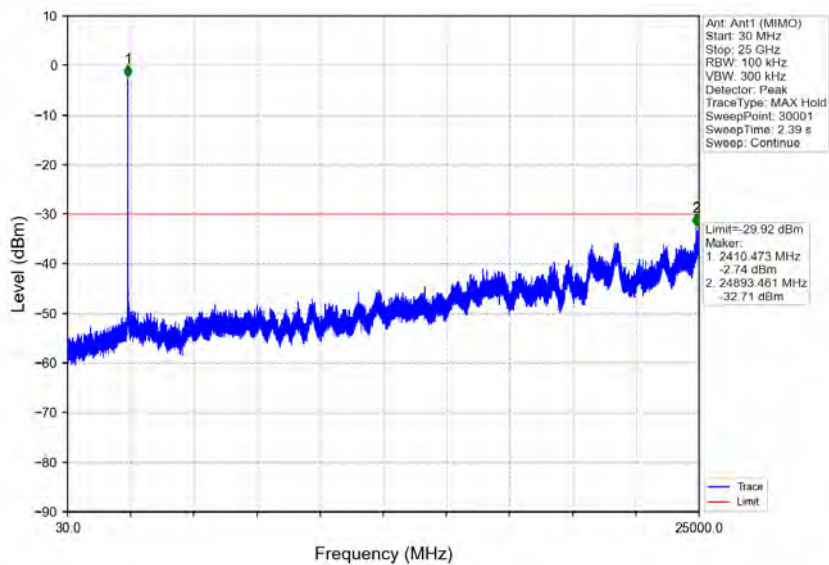
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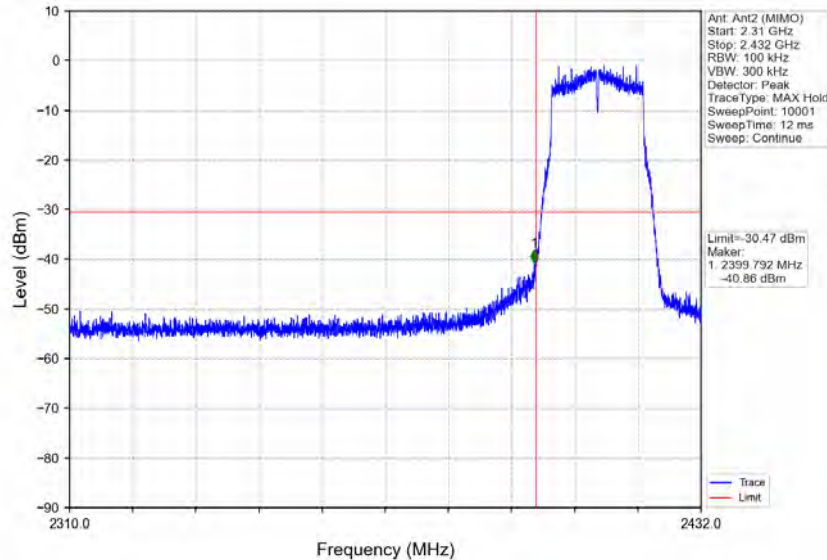
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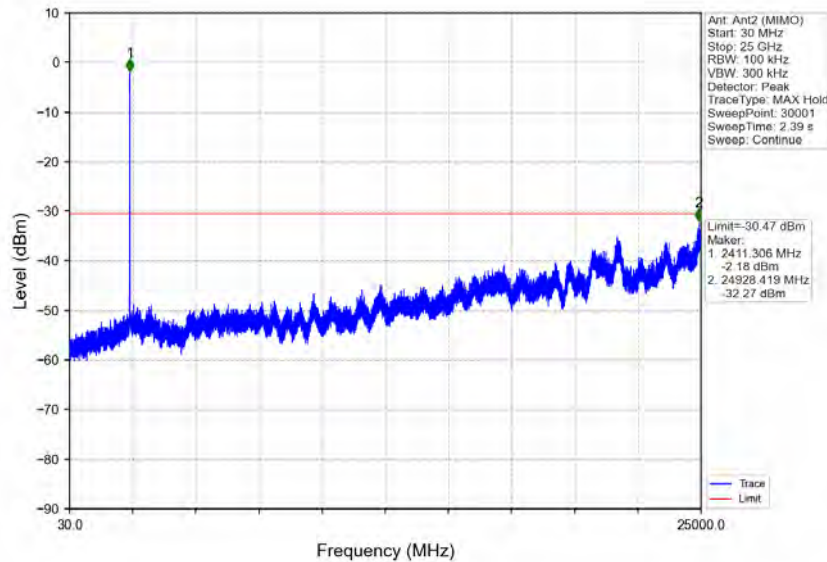
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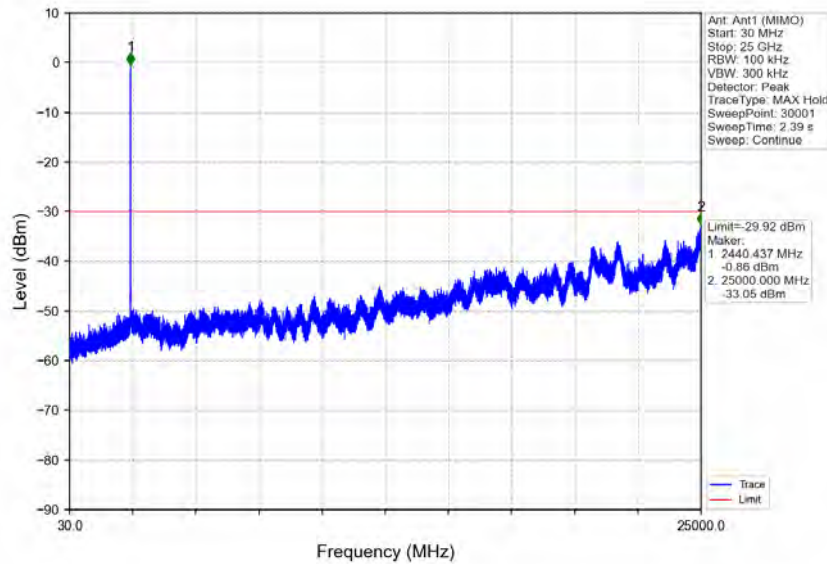
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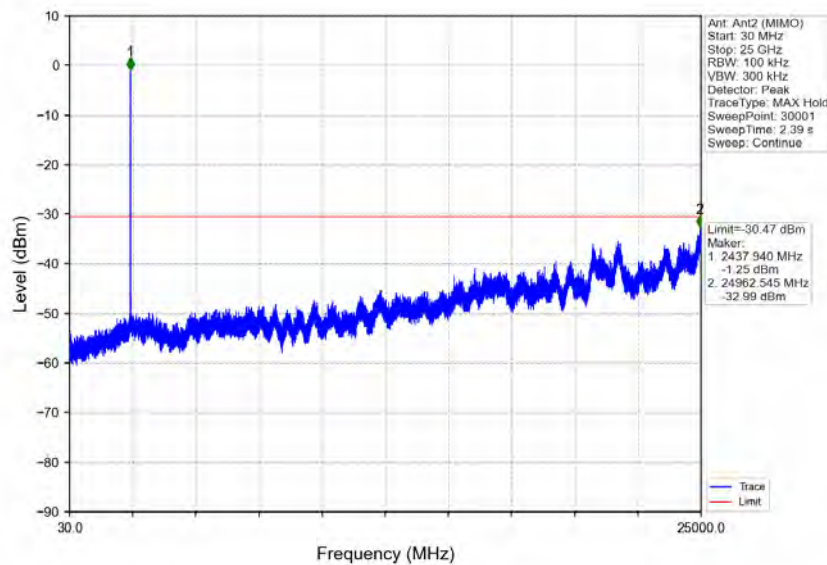
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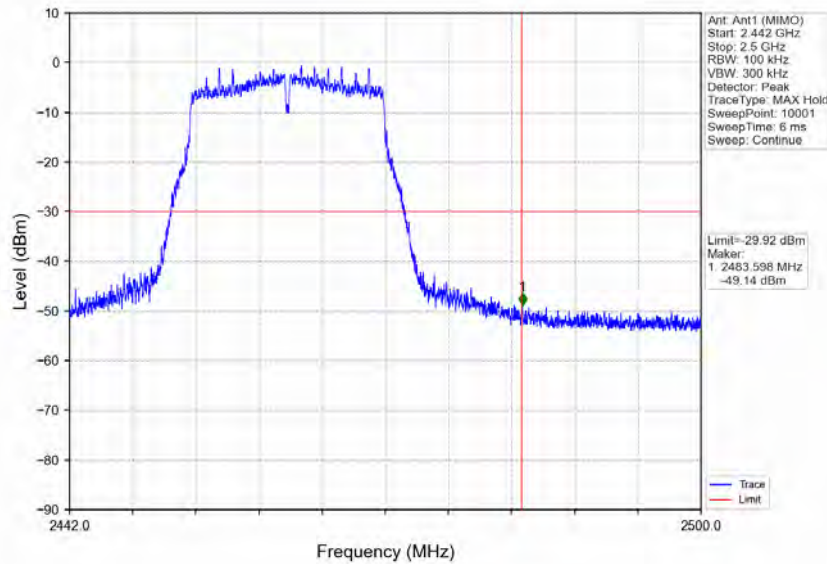
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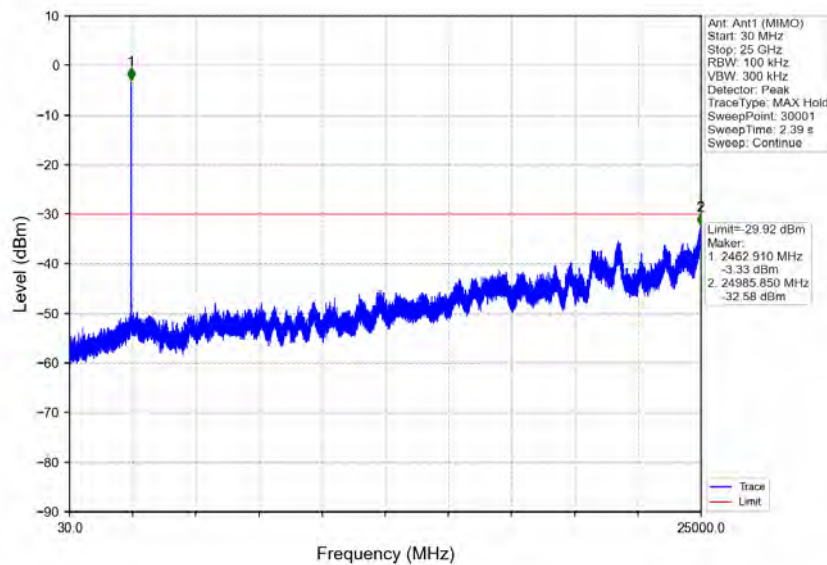
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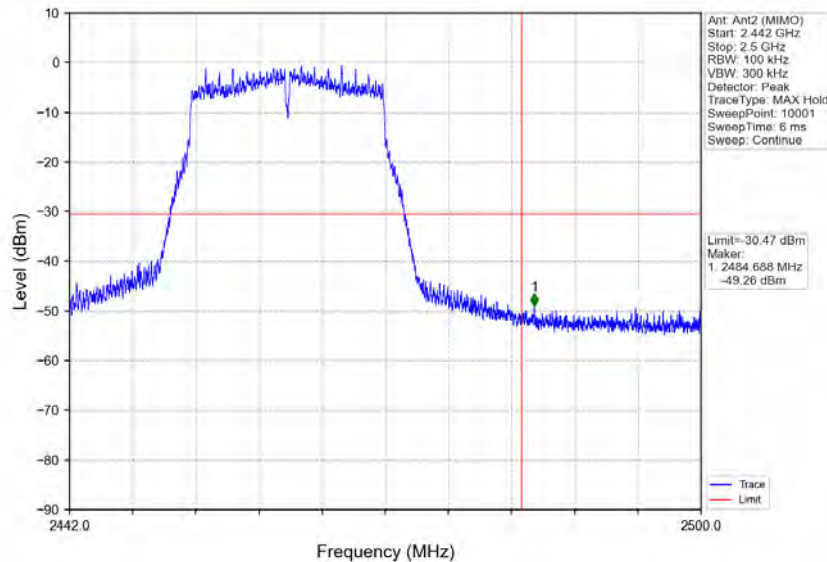
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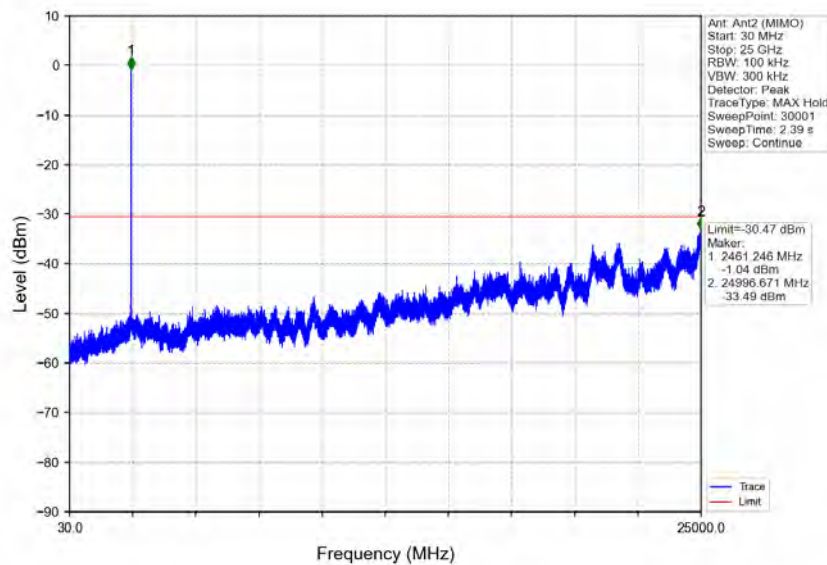
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