

Appendix A for KSCR220100014201

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



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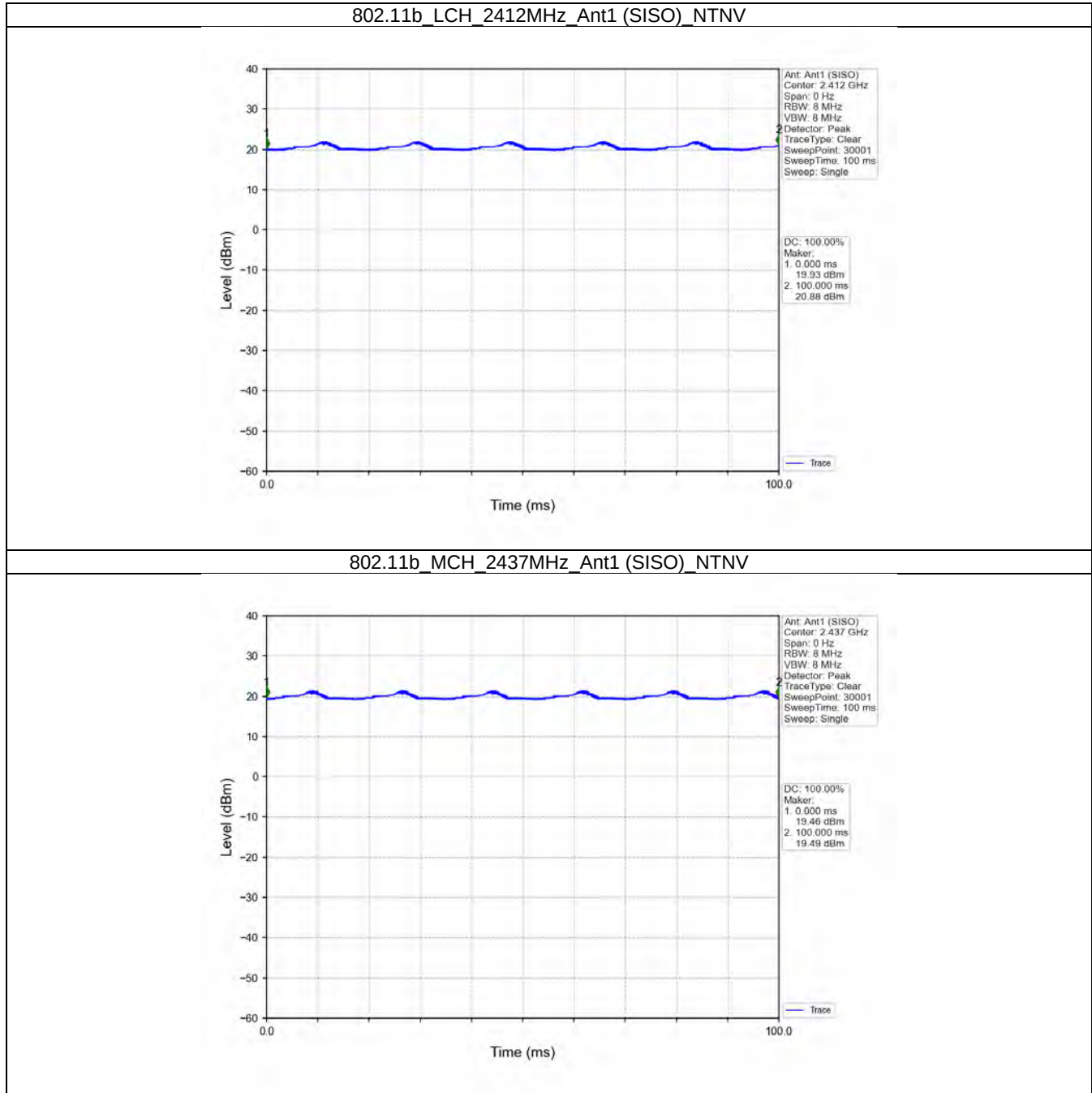
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1.1.2 Test Graph



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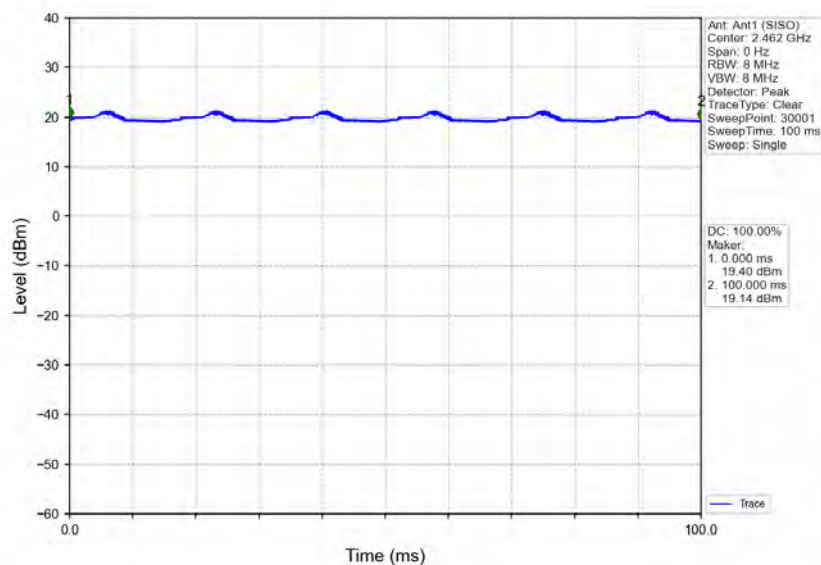
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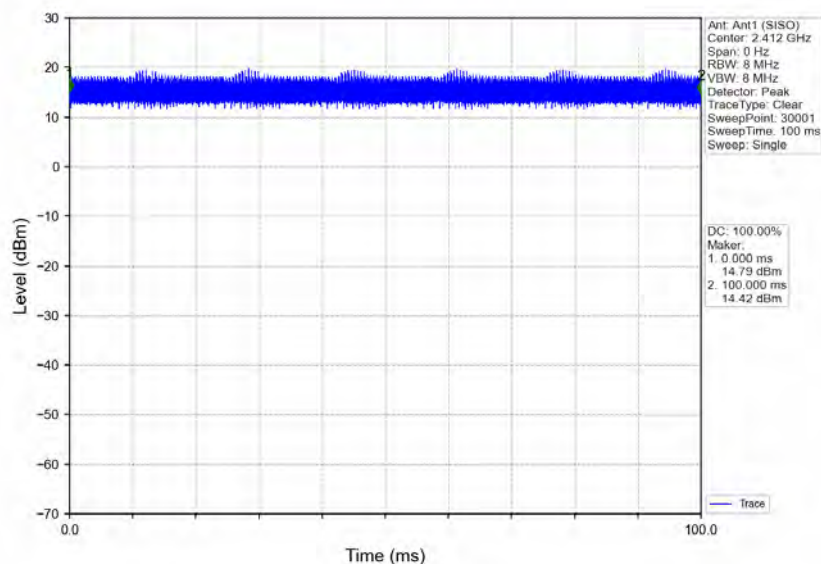
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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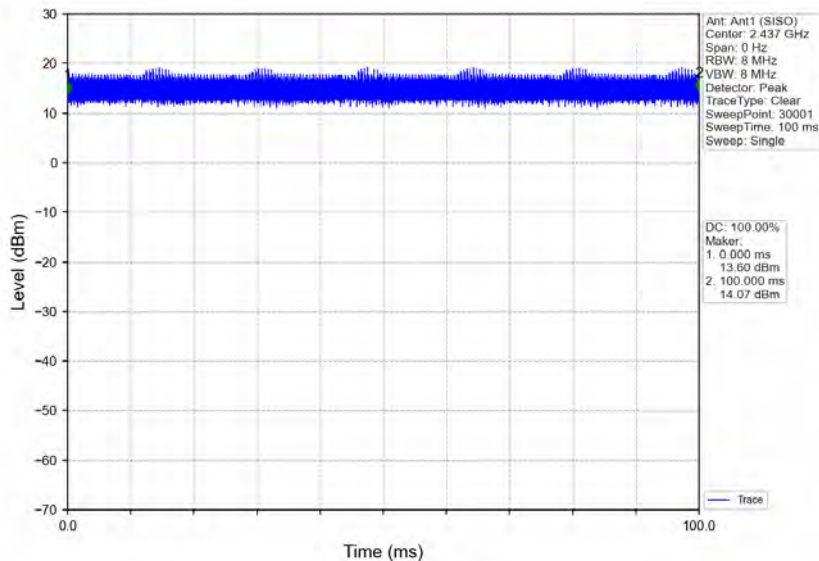
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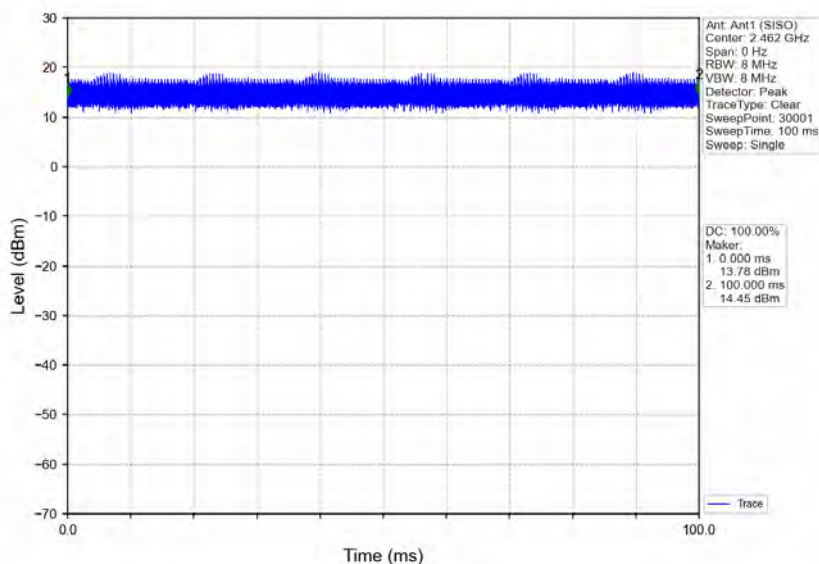
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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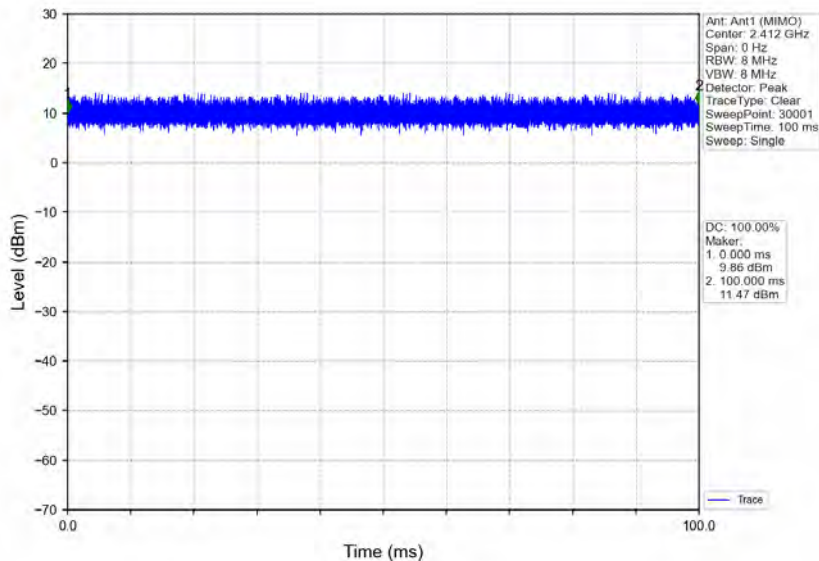
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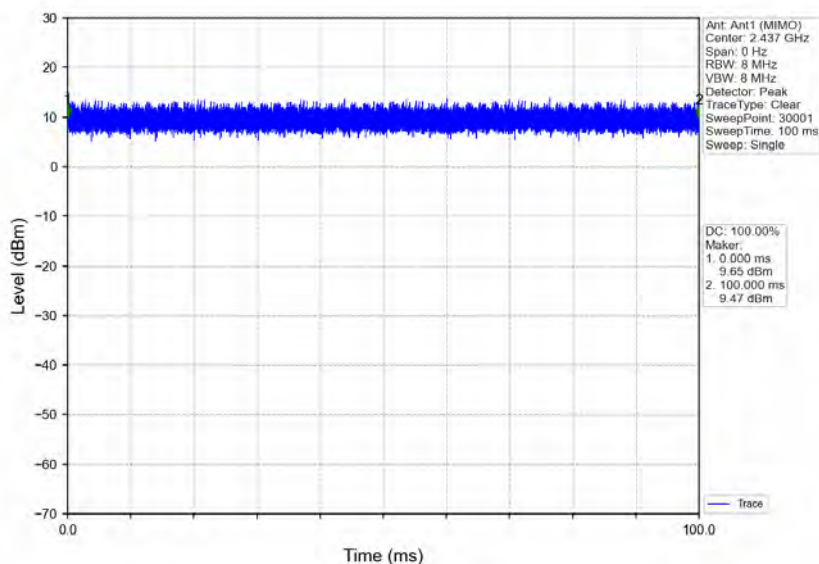
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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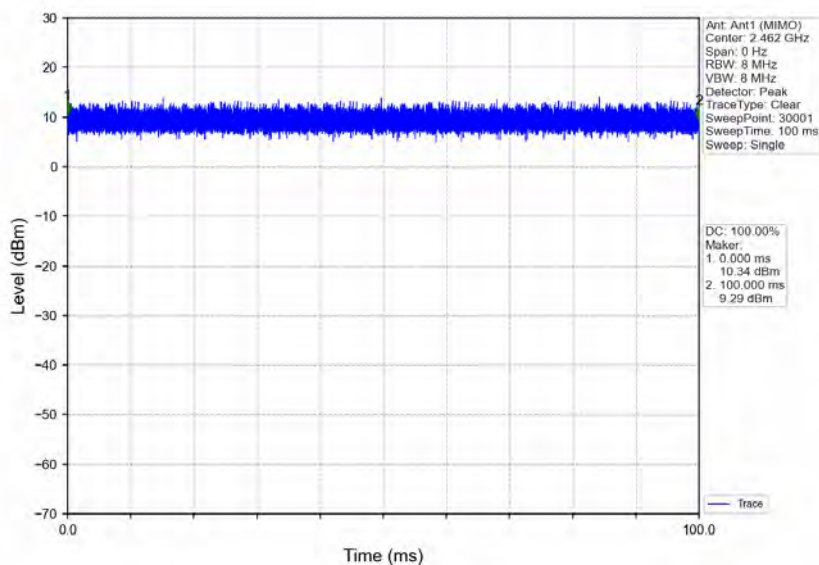
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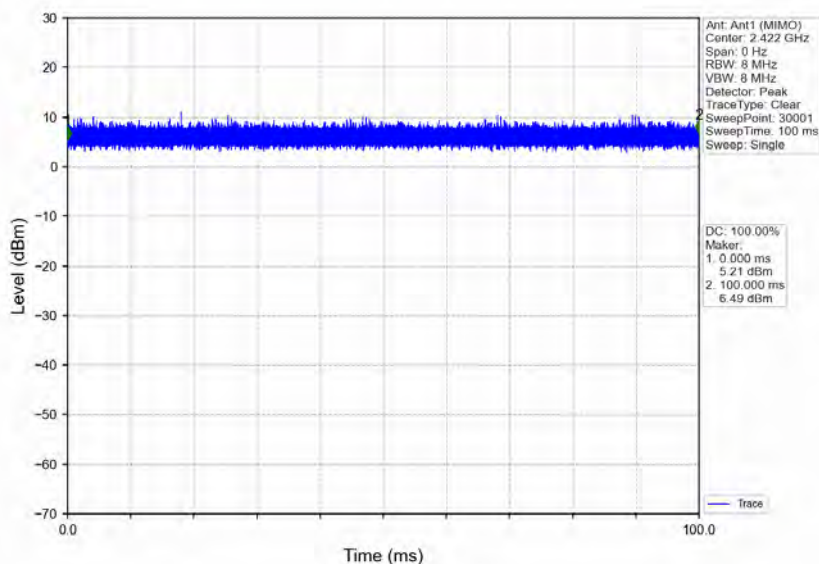
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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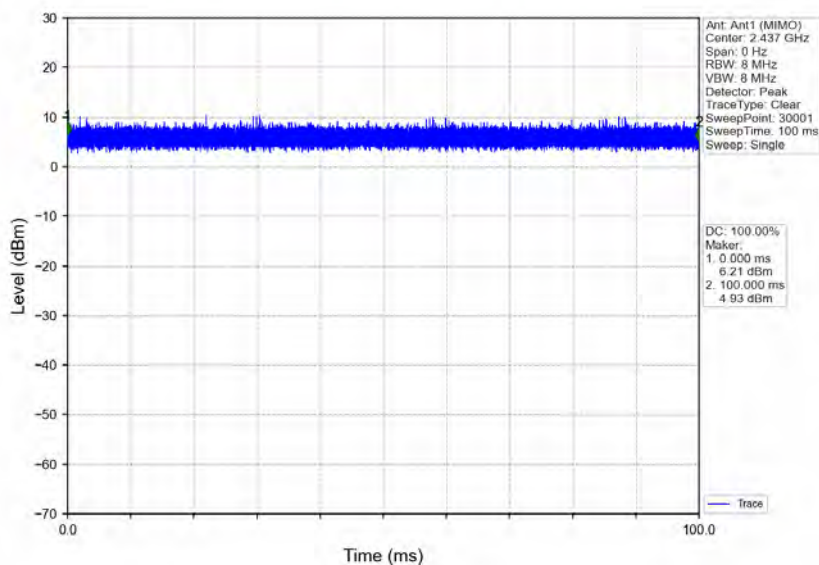
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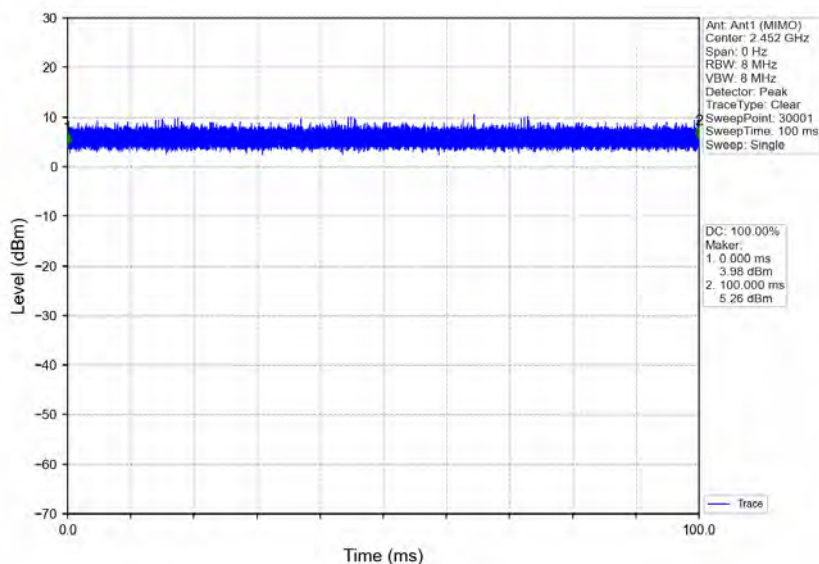
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	14.890	Pass
			2	14.888	Pass
		2437	1	14.913	Pass
			2	14.912	Pass
		2462	1	14.885	Pass
			2	14.890	Pass
802.11g	SISO	2412	1	17.552	Pass
			2	17.554	Pass
		2437	1	17.573	Pass
			2	17.574	Pass
		2462	1	17.562	Pass
			2	17.559	Pass
802.11n (HT20)	MIMO	2412	1	18.085	Pass
			2	18.077	Pass
		2437	1	18.101	Pass
			2	18.094	Pass
		2462	1	18.075	Pass
			2	18.376	Pass
802.11n (HT40)	MIMO	2422	1	36.022	Pass
			2	36.039	Pass
		2437	1	36.035	Pass
			2	36.024	Pass
		2452	1	35.997	Pass
			2	36.016	Pass



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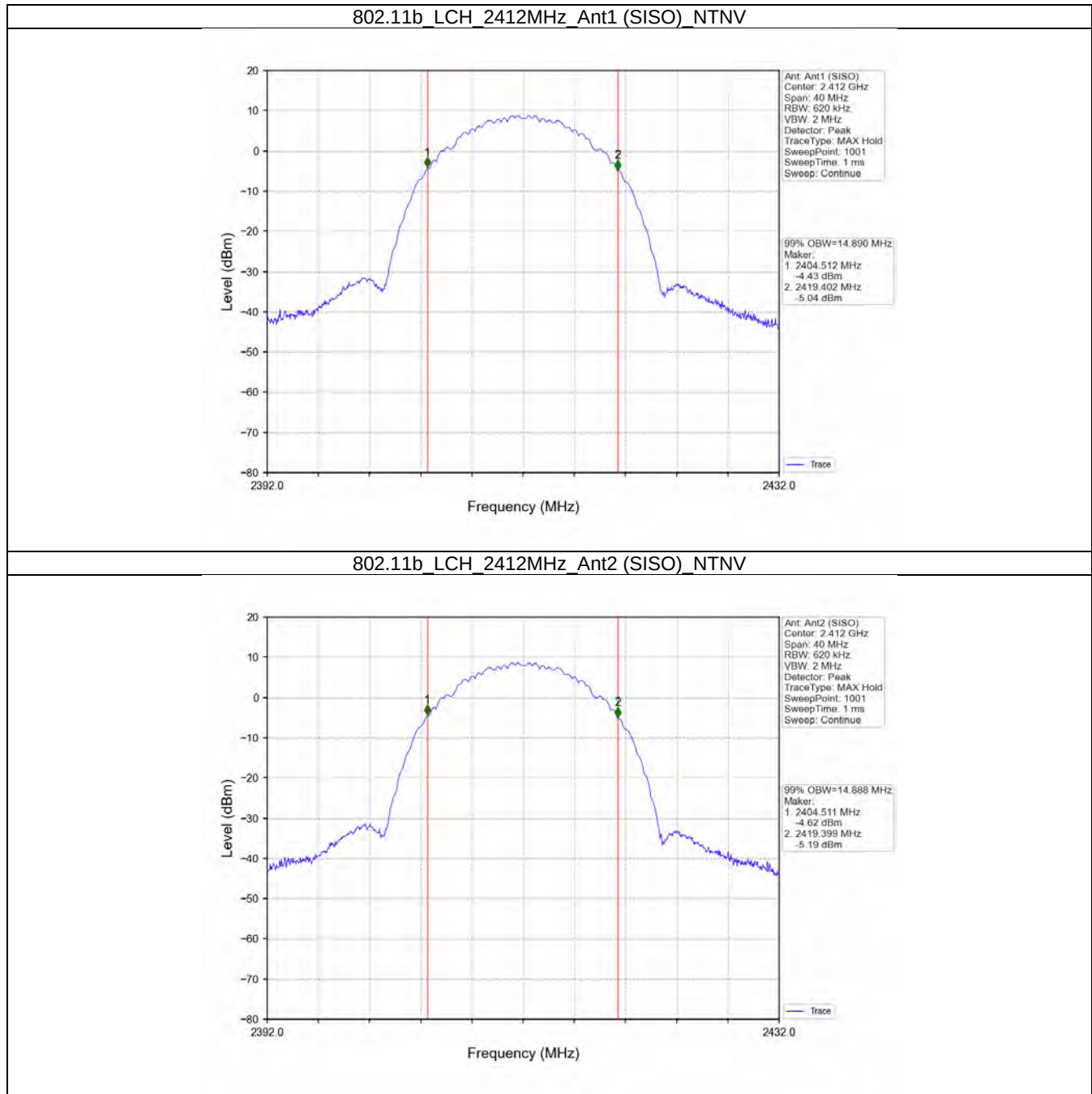
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2.1.2 Test Graph



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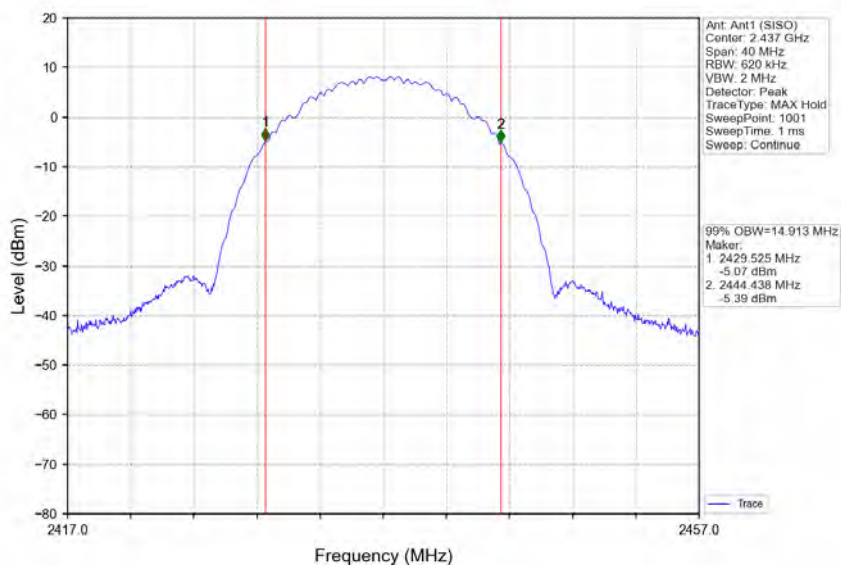
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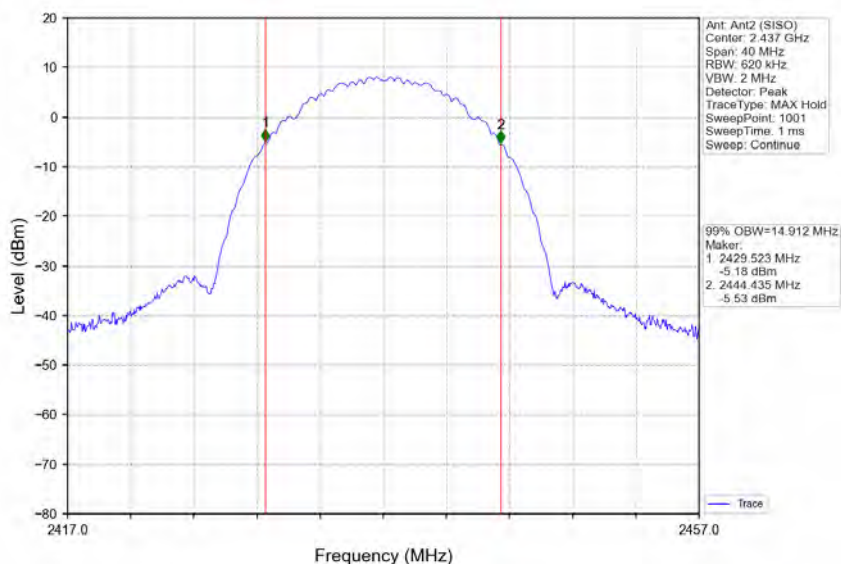
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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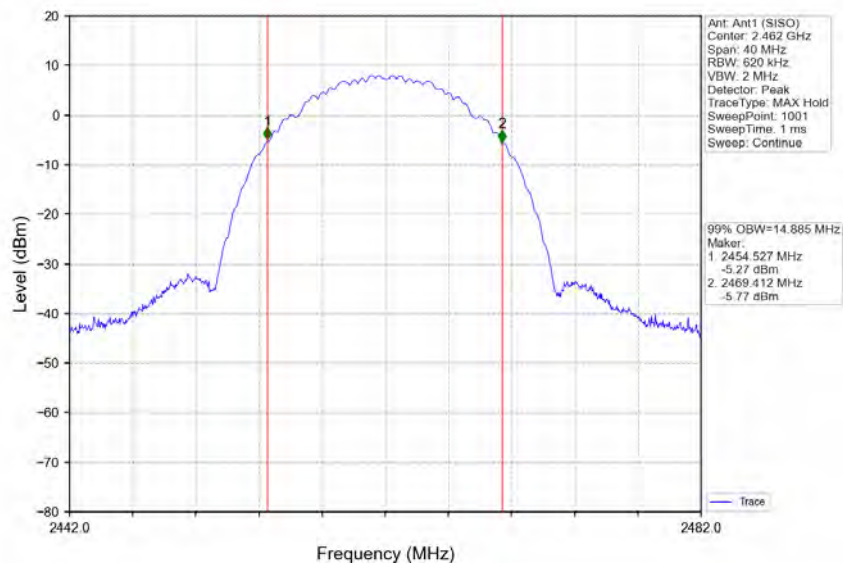
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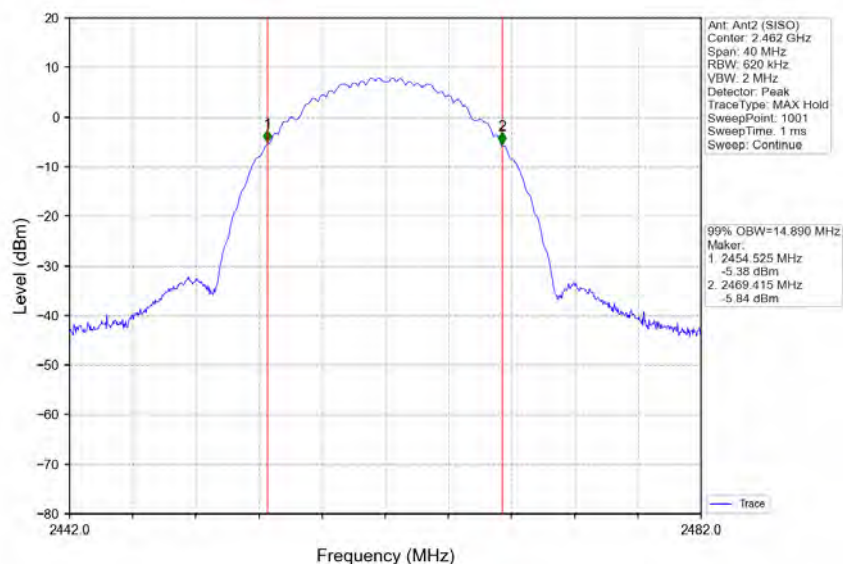
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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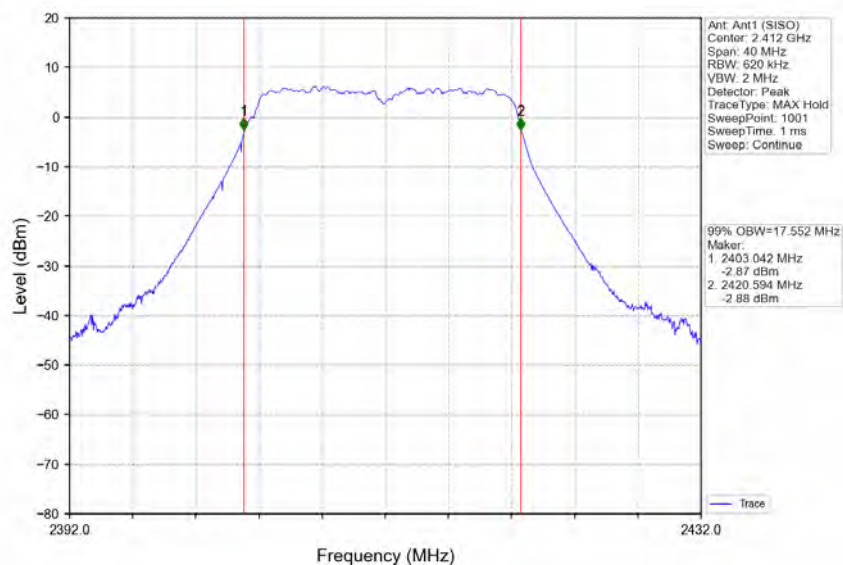
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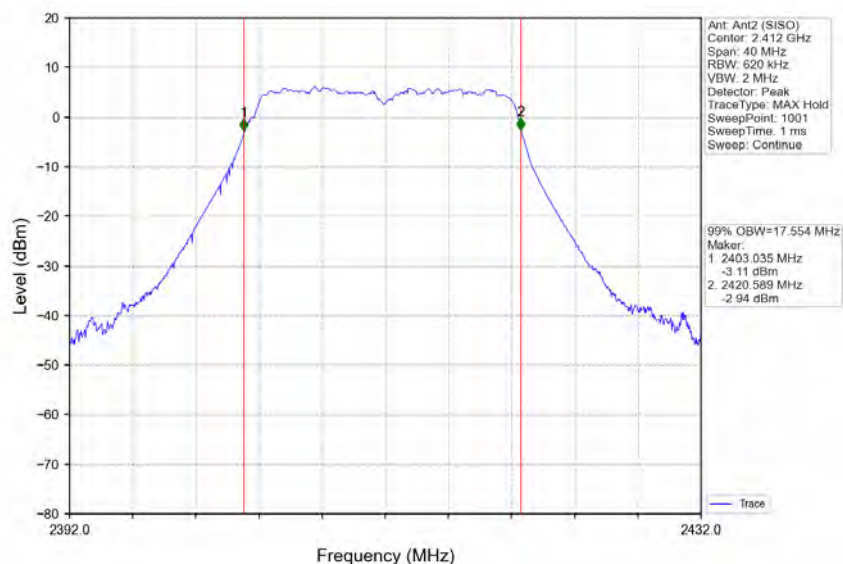
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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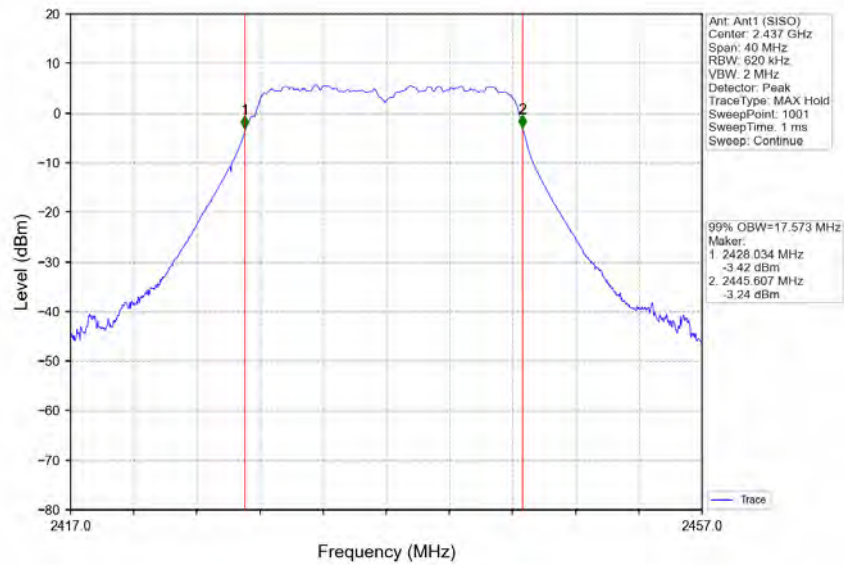
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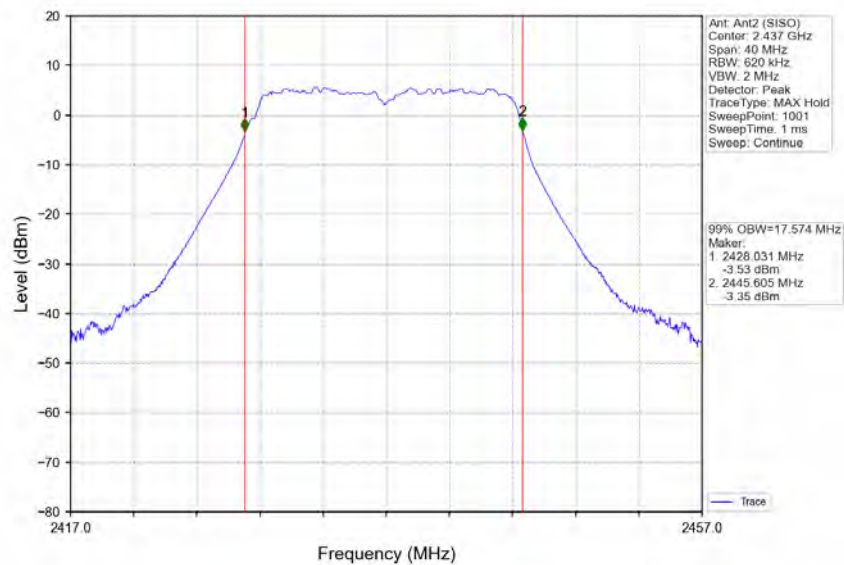
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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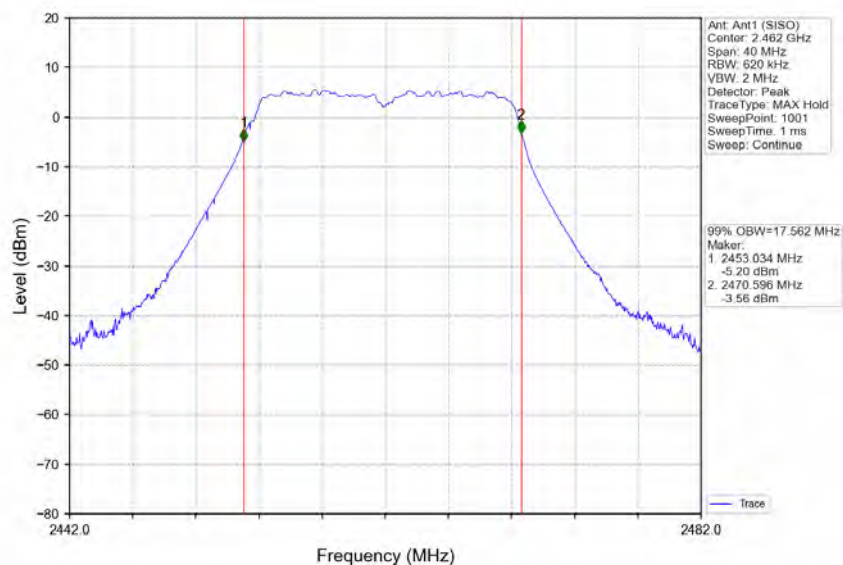
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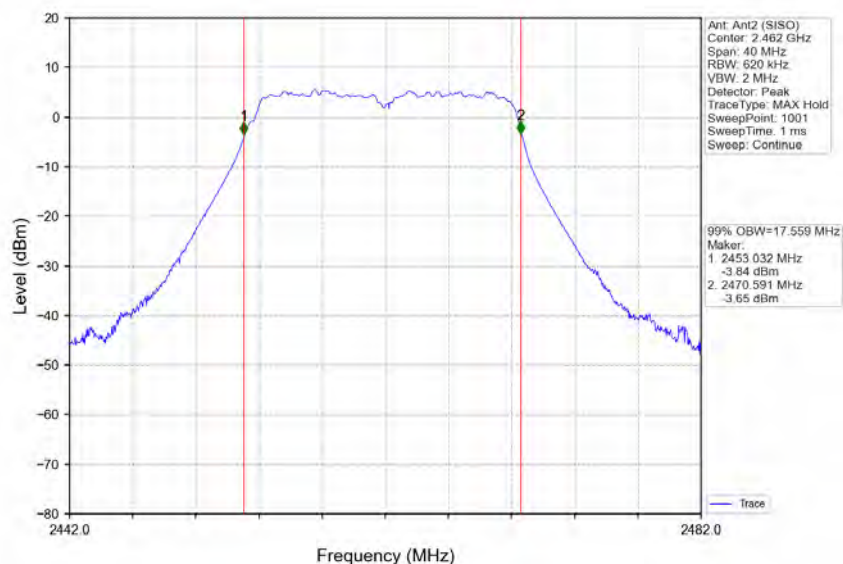
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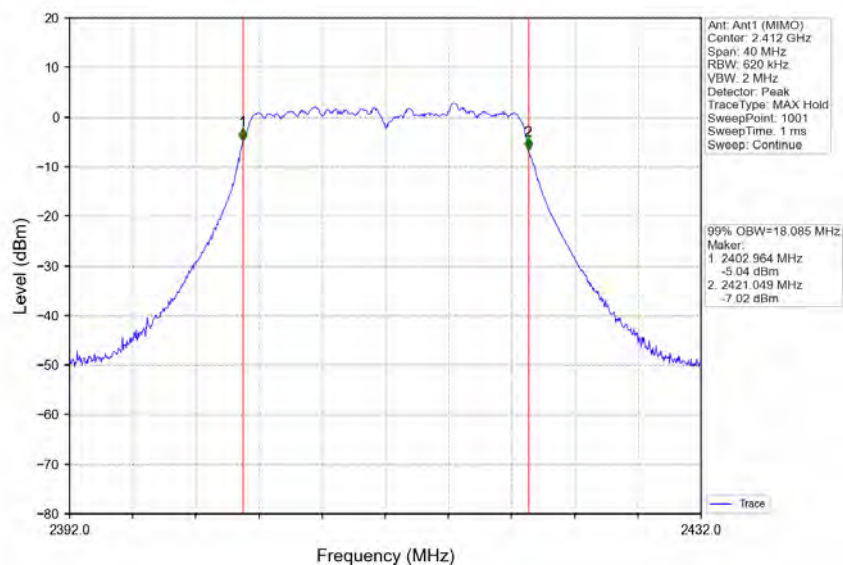
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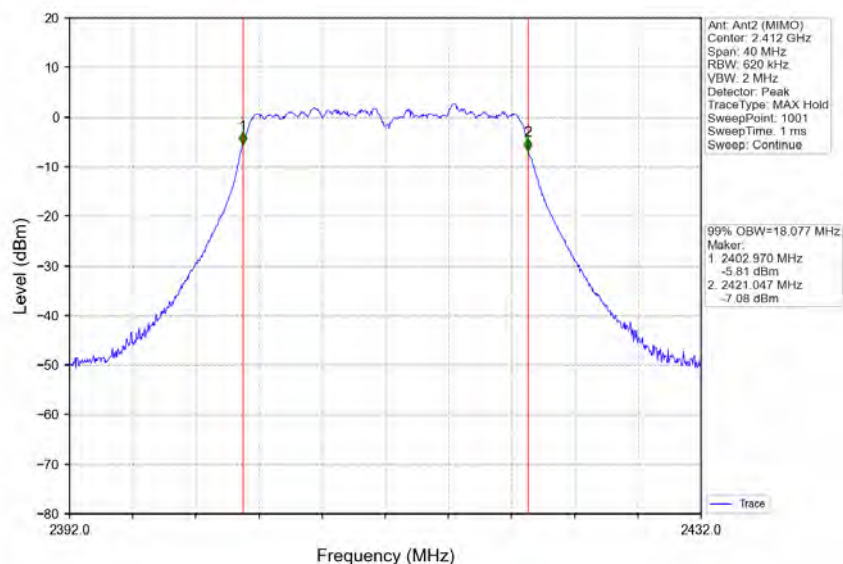
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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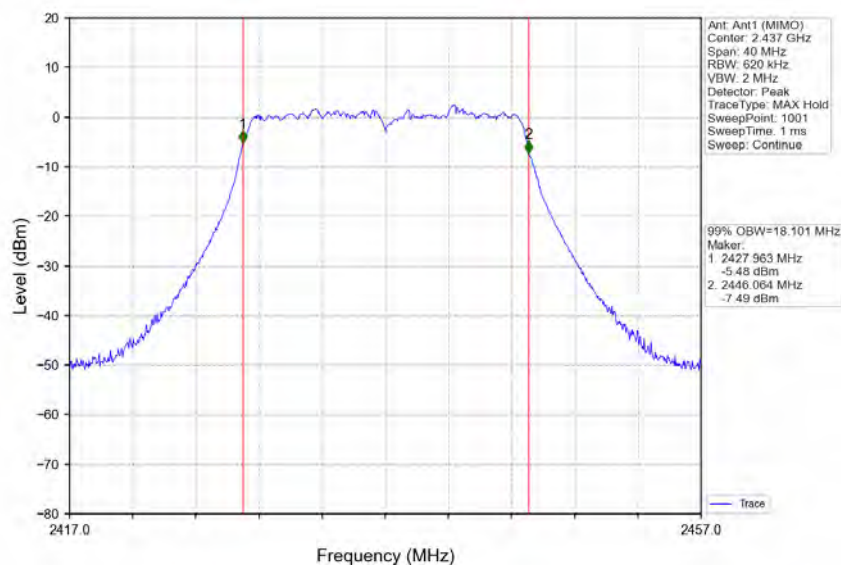
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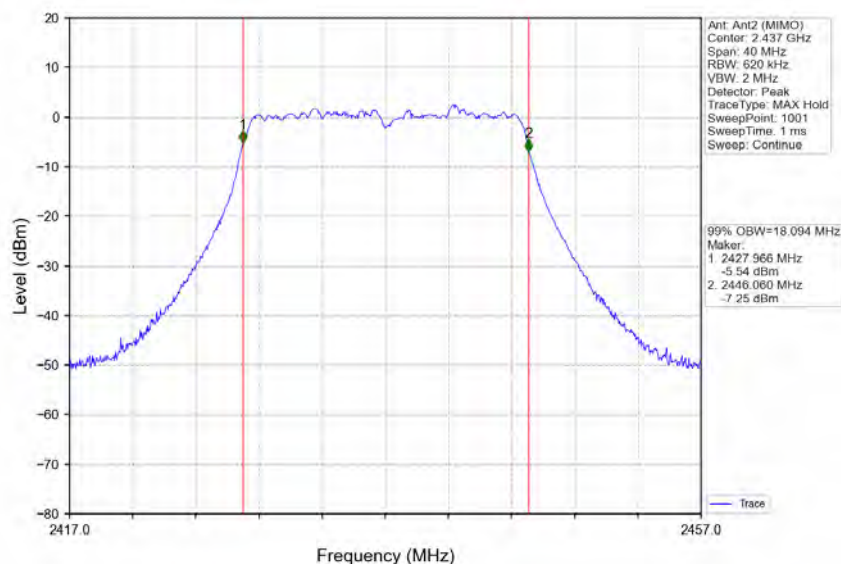
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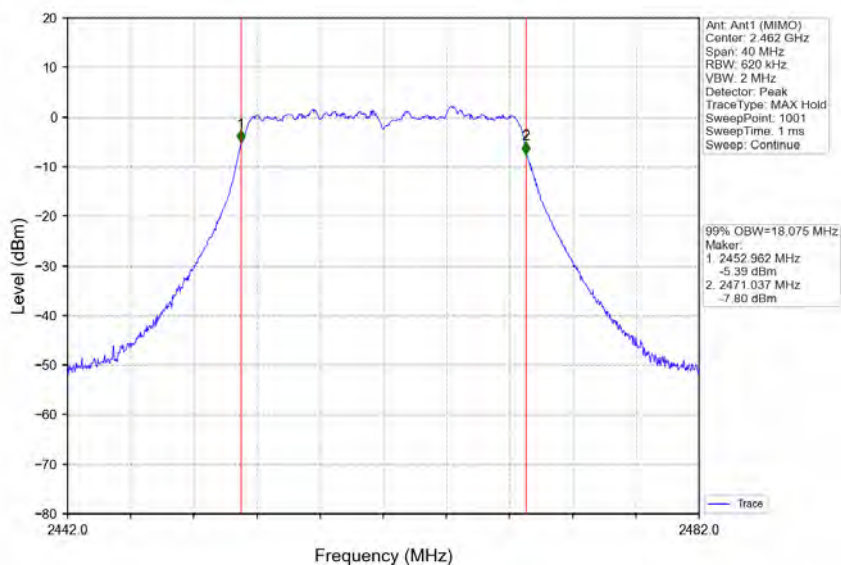
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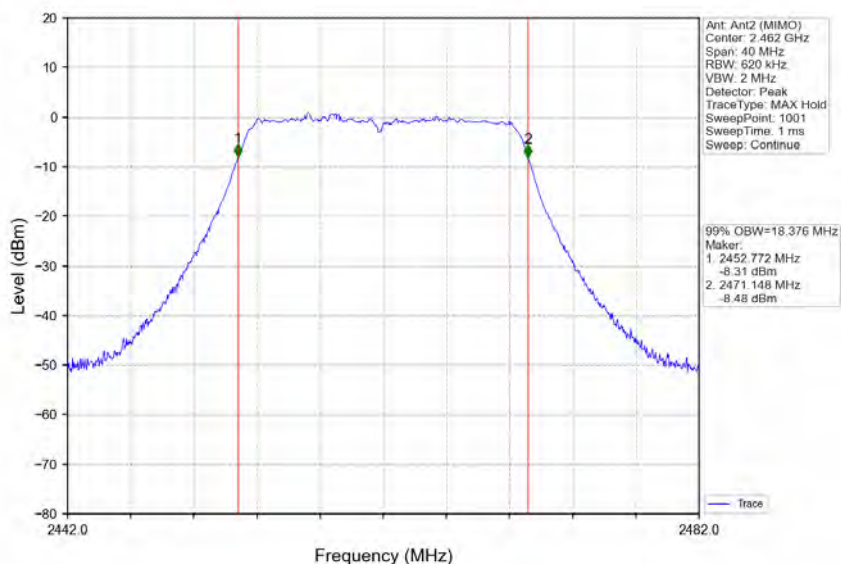
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802.11n(HT20) HCH_2462MHz_Ant1 (MIMO) NTNV



802.11n(HT20) HCH_2462MHz_Ant2 (MIMO) NTNV



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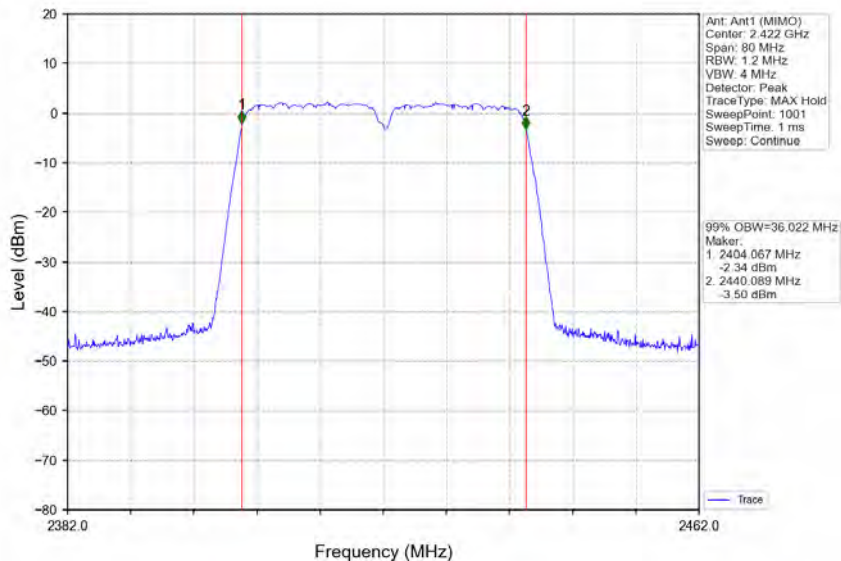
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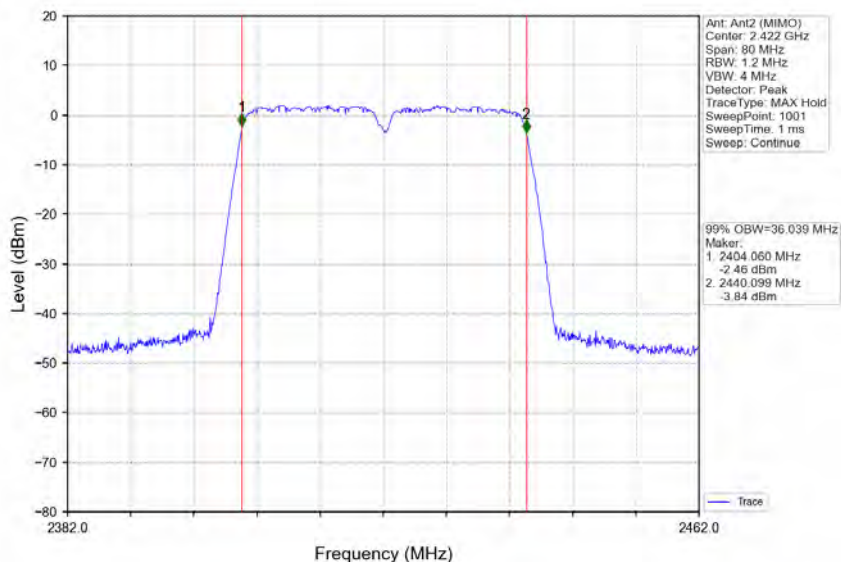
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802.11n(HT40) LCH_2422MHz_Ant1 (MIMO) NTNV



802.11n(HT40) LCH_2422MHz_Ant2 (MIMO) NTNV



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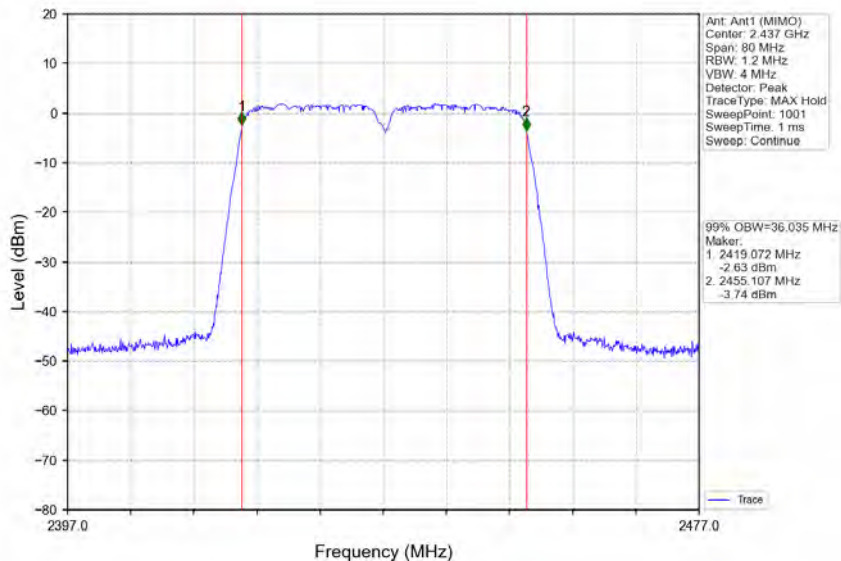
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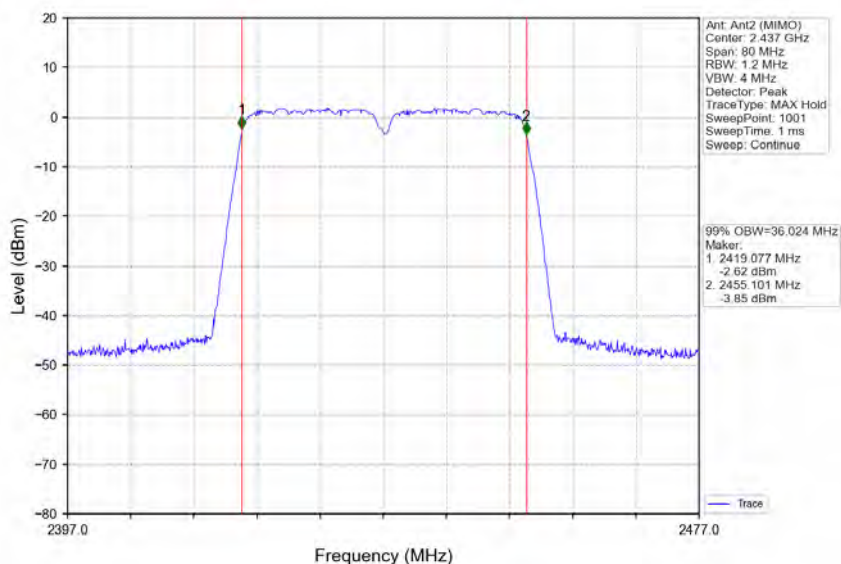
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802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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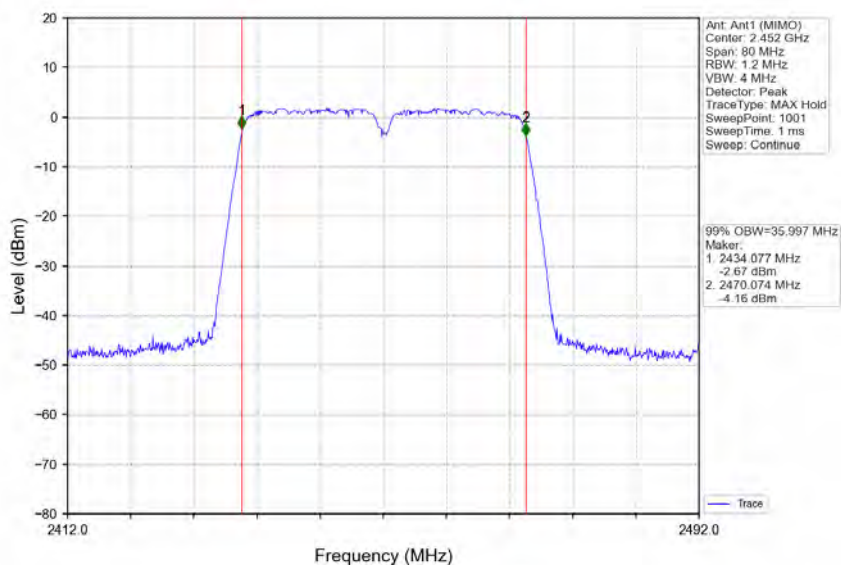
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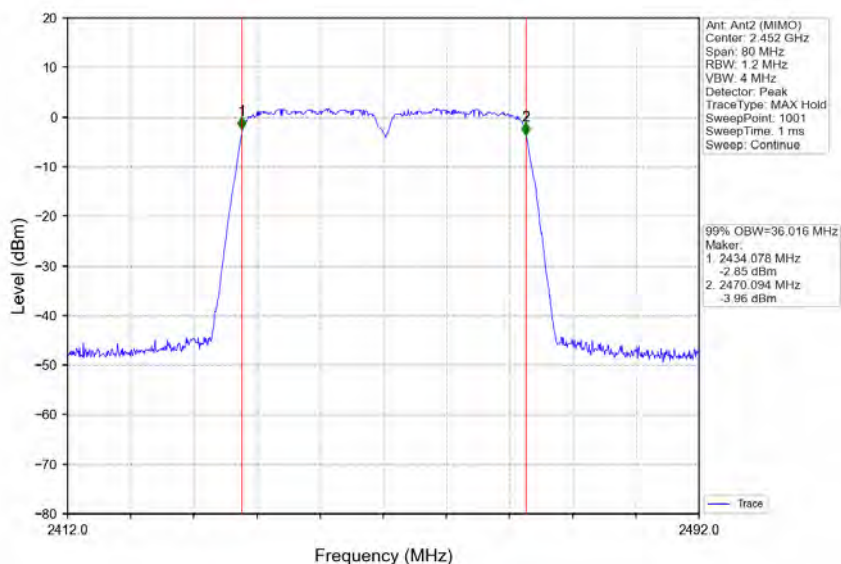
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802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTNV



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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	10.107	≥ 0.5	Pass
			2	10.108	≥ 0.5	Pass
		2437	1	10.107	≥ 0.5	Pass
			2	10.111	≥ 0.5	Pass
		2462	1	10.111	≥ 0.5	Pass
			2	10.108	≥ 0.5	Pass
802.11g	SISO	2412	1	16.588	≥ 0.5	Pass
			2	16.586	≥ 0.5	Pass
		2437	1	16.591	≥ 0.5	Pass
			2	16.589	≥ 0.5	Pass
		2462	1	16.587	≥ 0.5	Pass
			2	16.590	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.797	≥ 0.5	Pass
			2	17.792	≥ 0.5	Pass
		2437	1	17.804	≥ 0.5	Pass
			2	17.802	≥ 0.5	Pass
		2462	1	17.788	≥ 0.5	Pass
			2	17.743	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.433	≥ 0.5	Pass
			2	36.428	≥ 0.5	Pass
		2437	1	36.424	≥ 0.5	Pass
			2	36.425	≥ 0.5	Pass
		2452	1	36.412	≥ 0.5	Pass
			2	36.423	≥ 0.5	Pass



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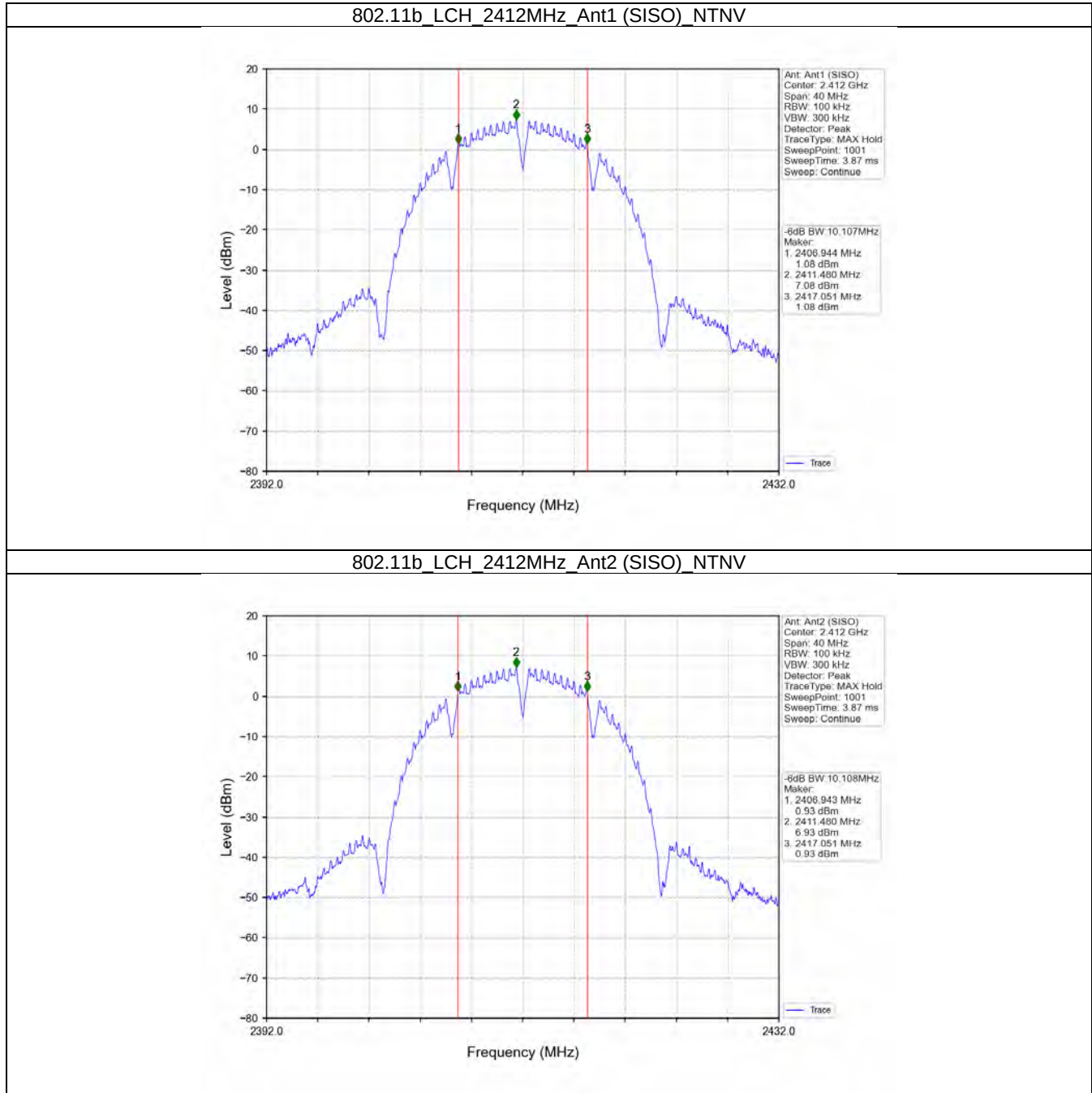
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2.2.2 Test Graph



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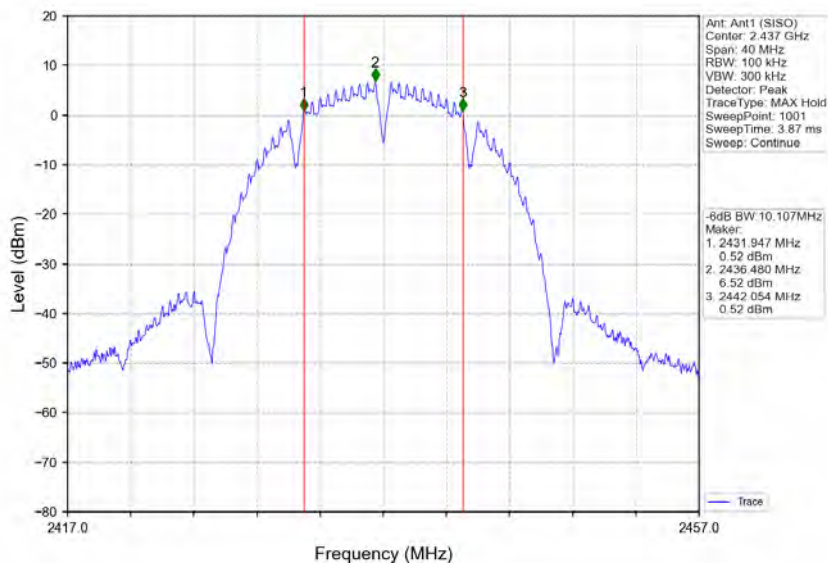
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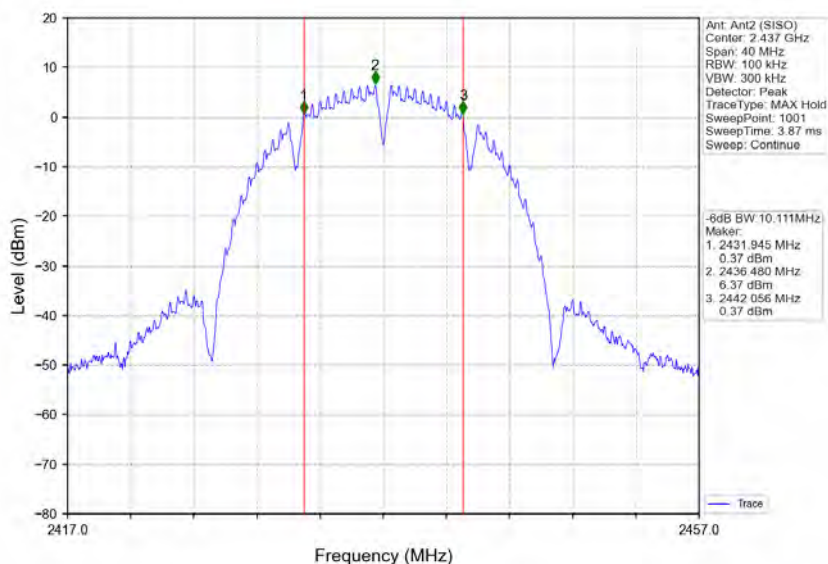
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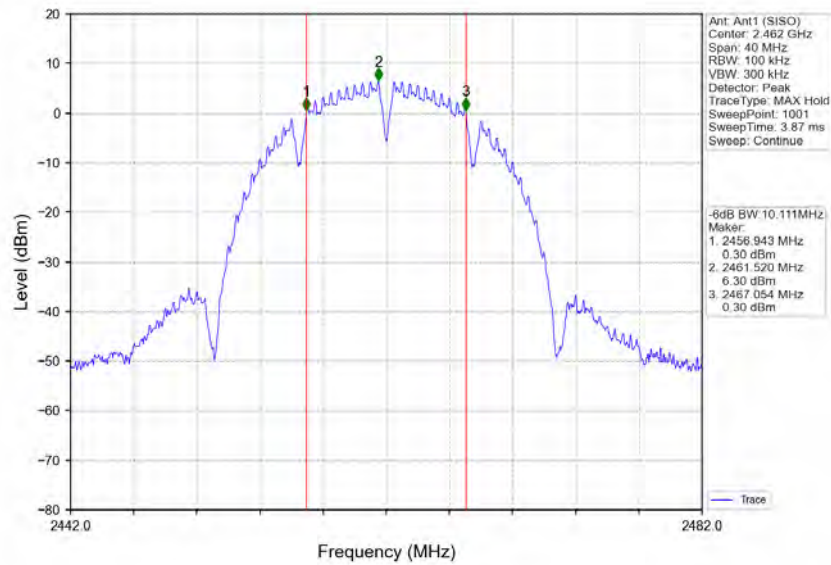
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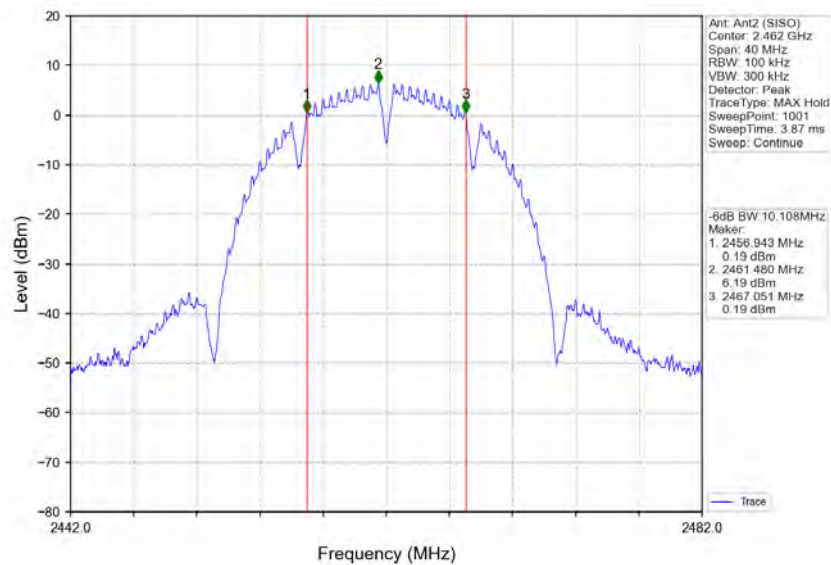
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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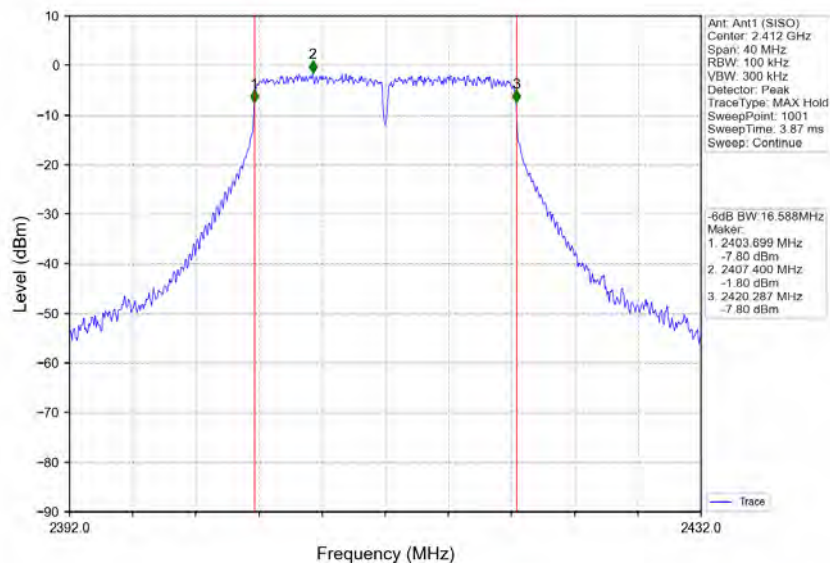
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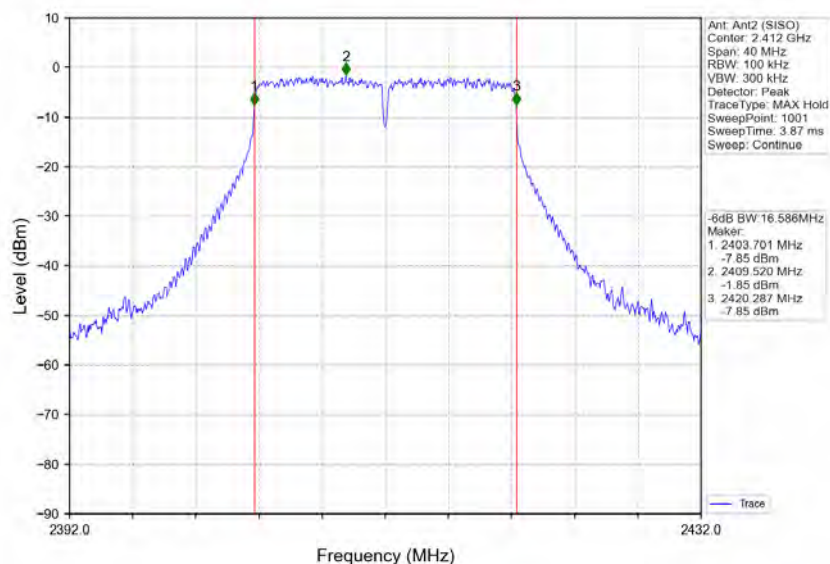
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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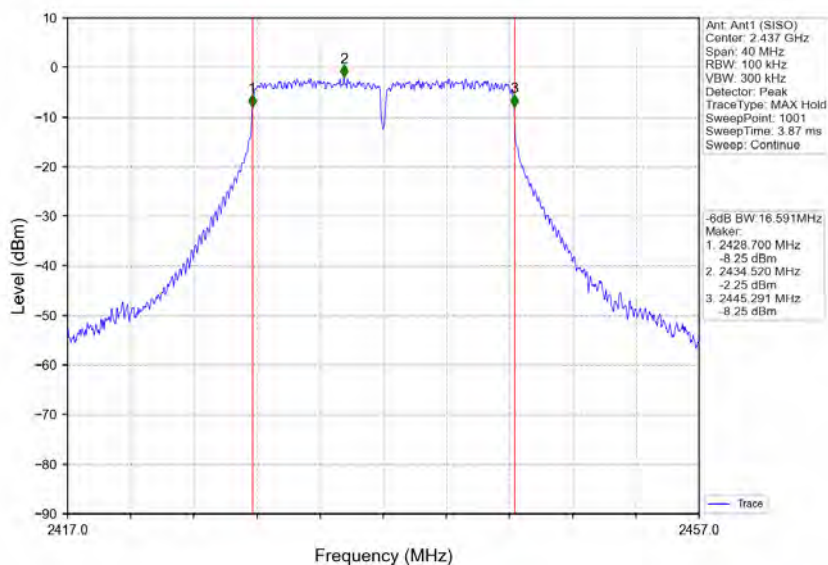
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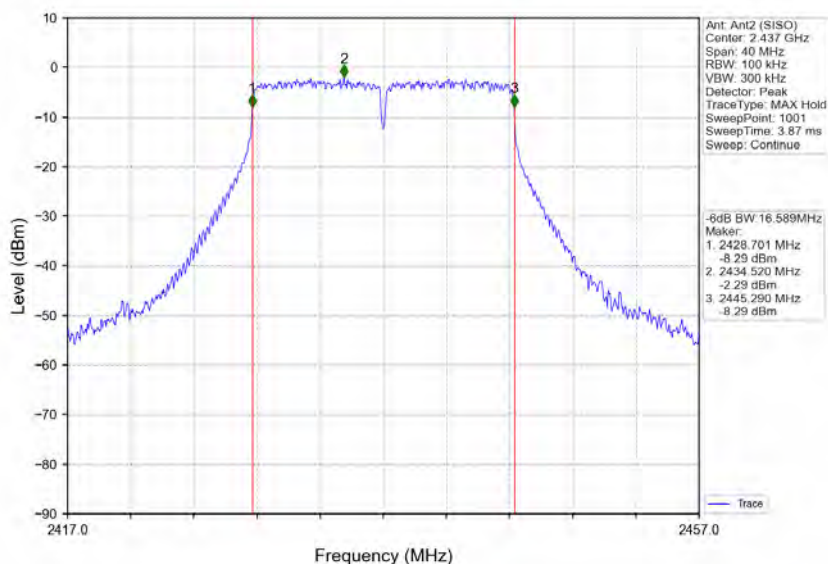
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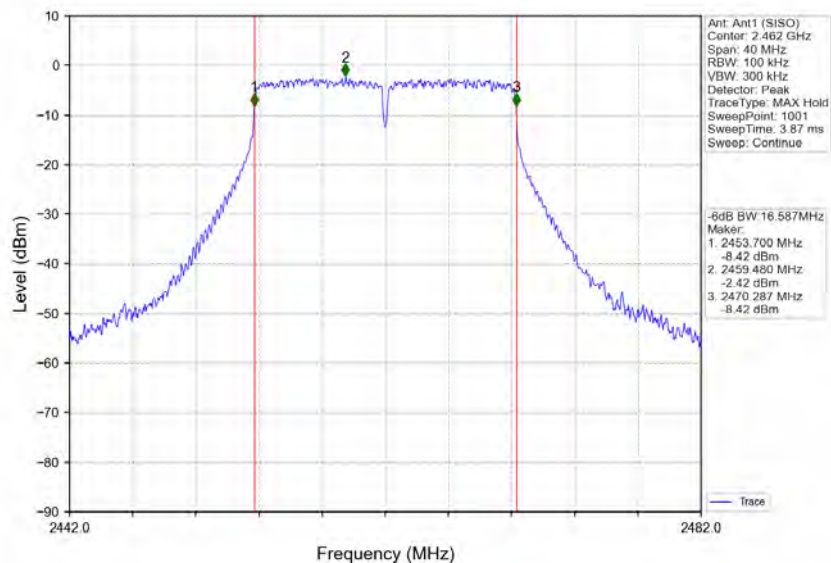
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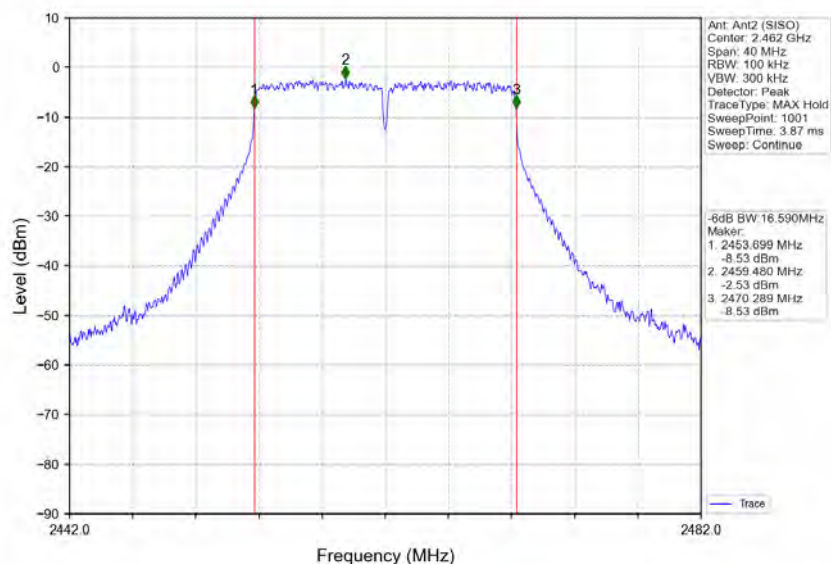
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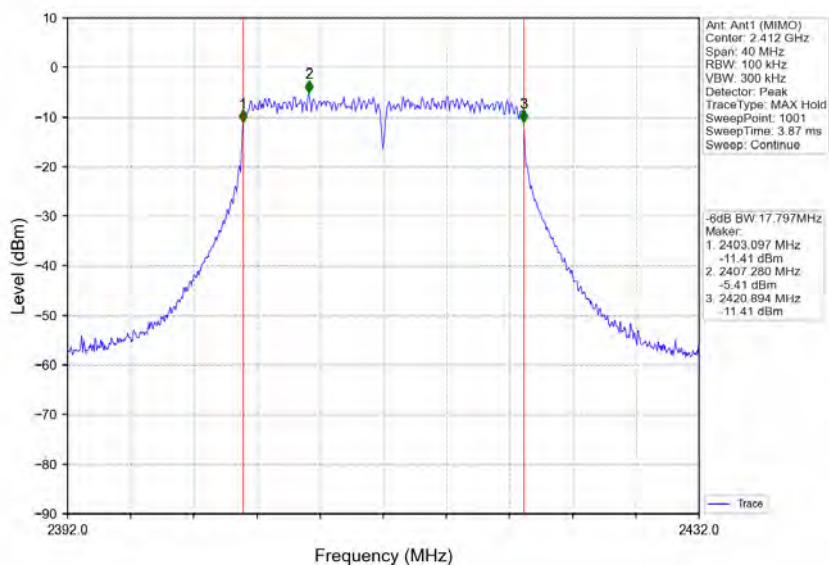
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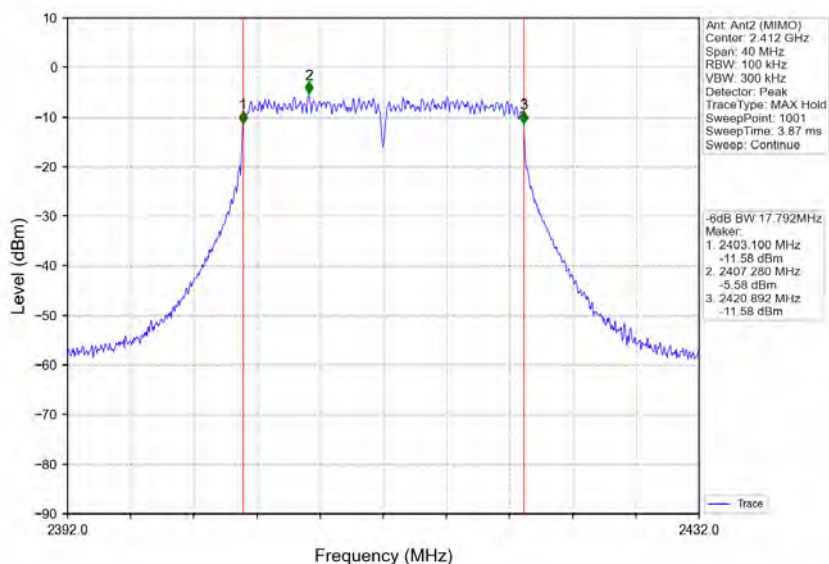
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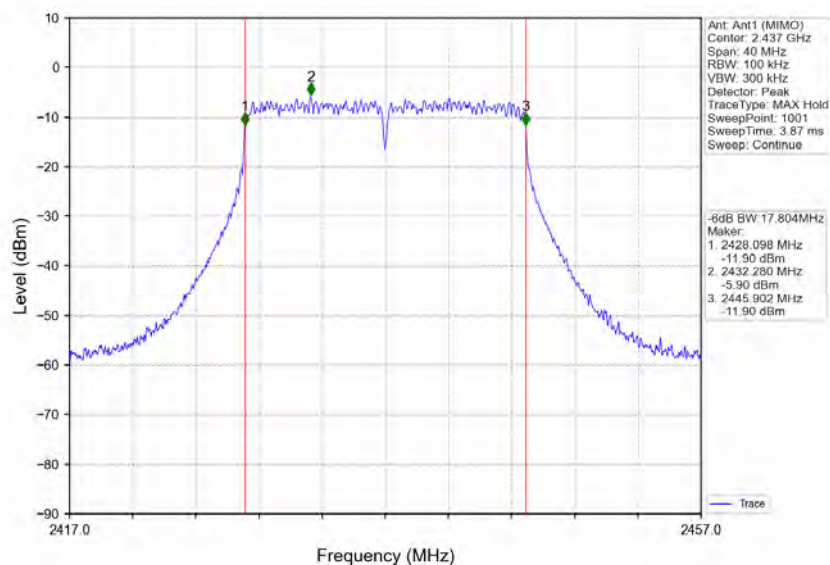
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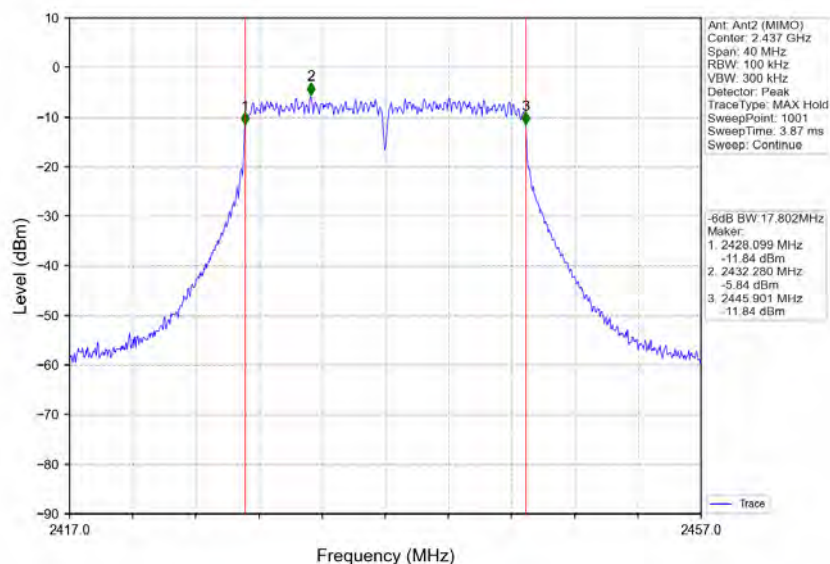
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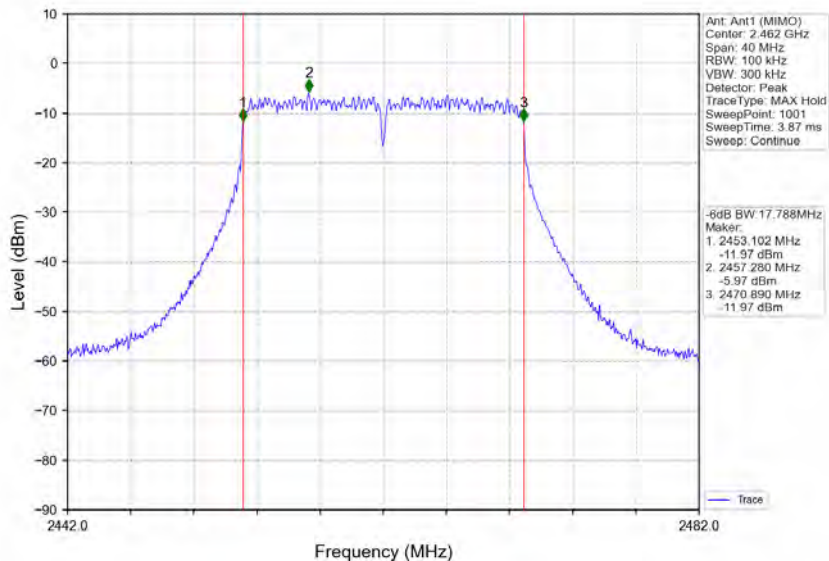
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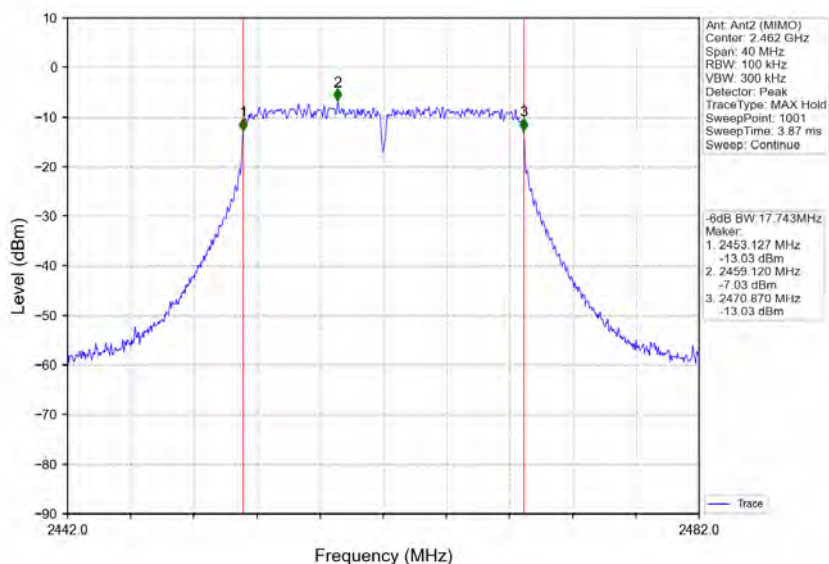
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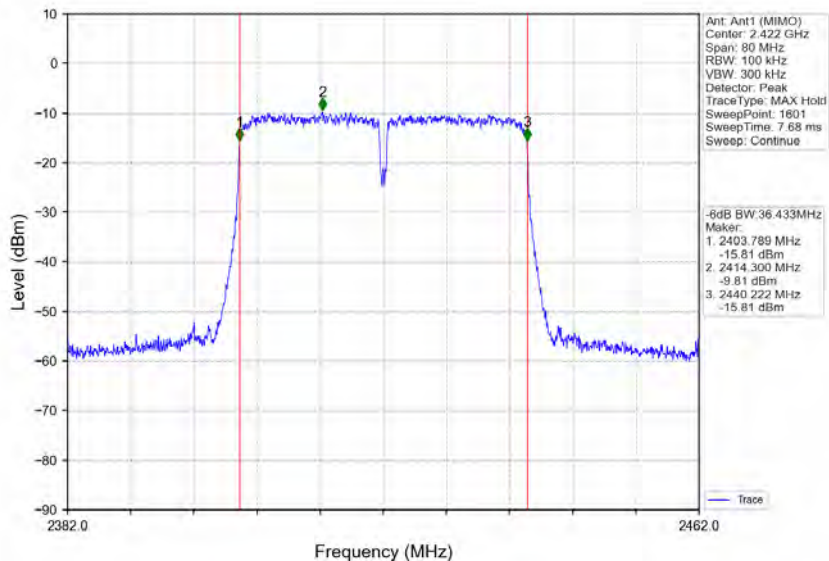
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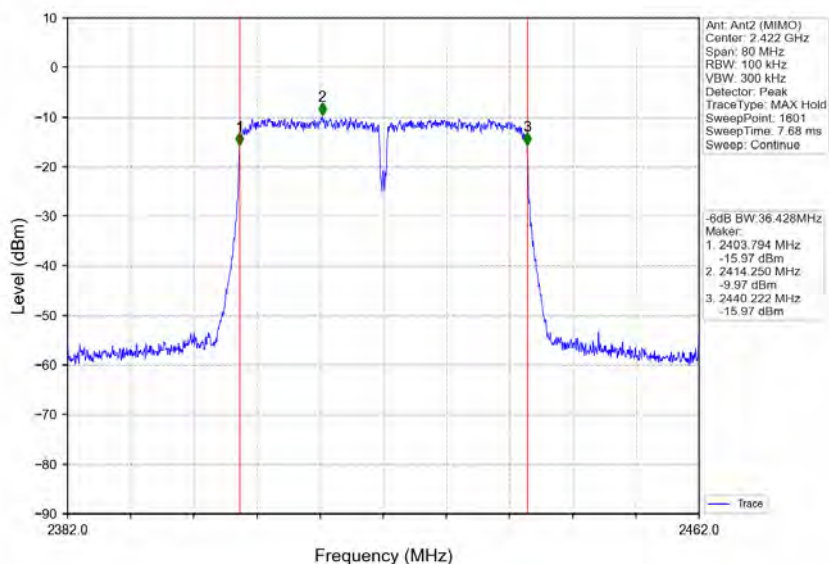
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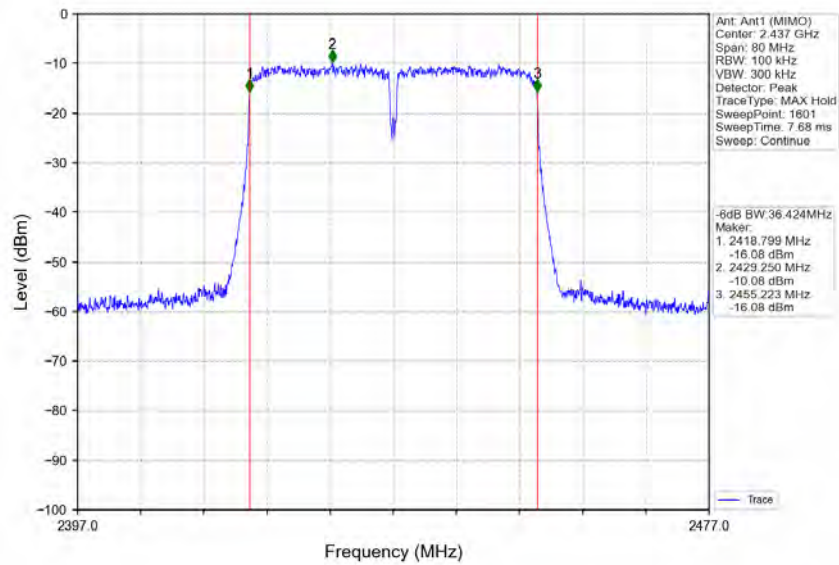
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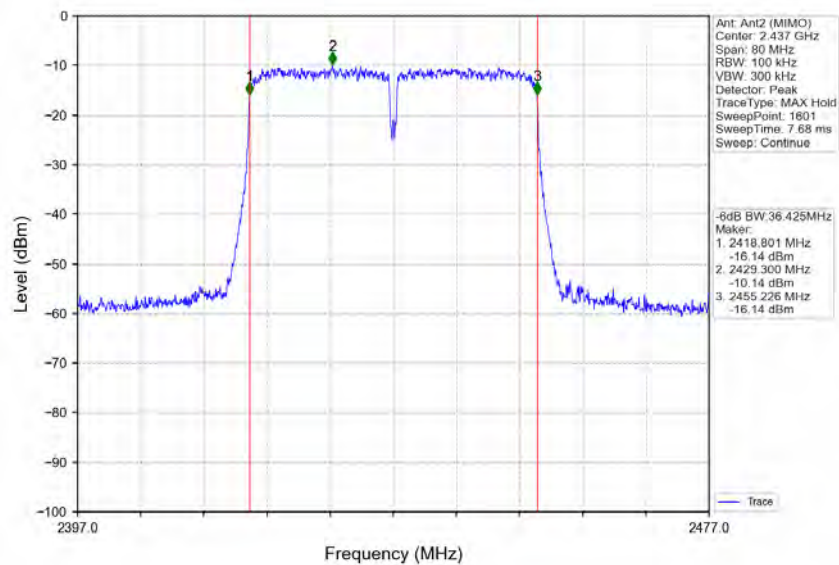
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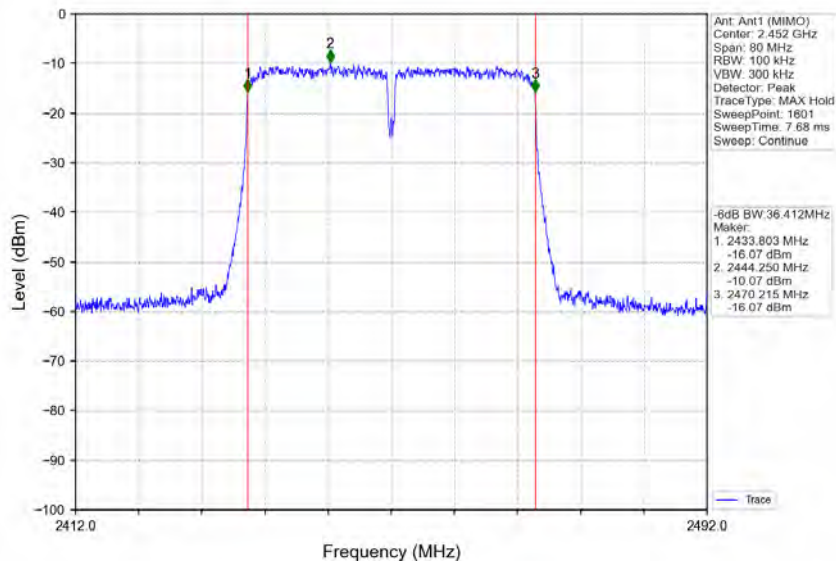
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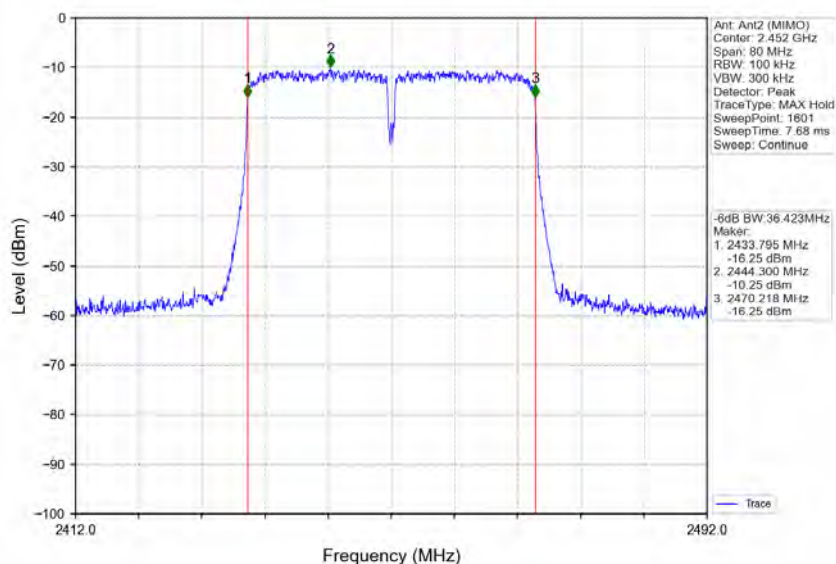
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output f99 (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	16.85	16.72	/	<=30	Pass
		2437	16.32	16.21	/	<=30	Pass
		2462	16.11	15.98	/	<=30	Pass
802.11g	SISO	2412	12.48	12.40	/	<=30	Pass
		2437	12.03	11.97	/	<=30	Pass
		2462	11.82	11.76	/	<=30	Pass
802.11n (HT20)	MIMO	2412	7.27	7.12	10.21	<=28.03	Pass
		2437	6.91	6.92	9.93	<=28.03	Pass
		2462	6.73	6.69	9.72	<=28.03	Pass
802.11n (HT40)	MIMO	2422	7.26	7.10	10.19	<=28.03	Pass
		2437	7.08	6.97	10.04	<=28.03	Pass
		2452	6.95	6.86	9.92	<=28.03	Pass

Note1: Antenna Gain: Ant1: 4.96dBi; Ant2: 4.96dBi;
Note2: Directional Gain: 7.97dBi



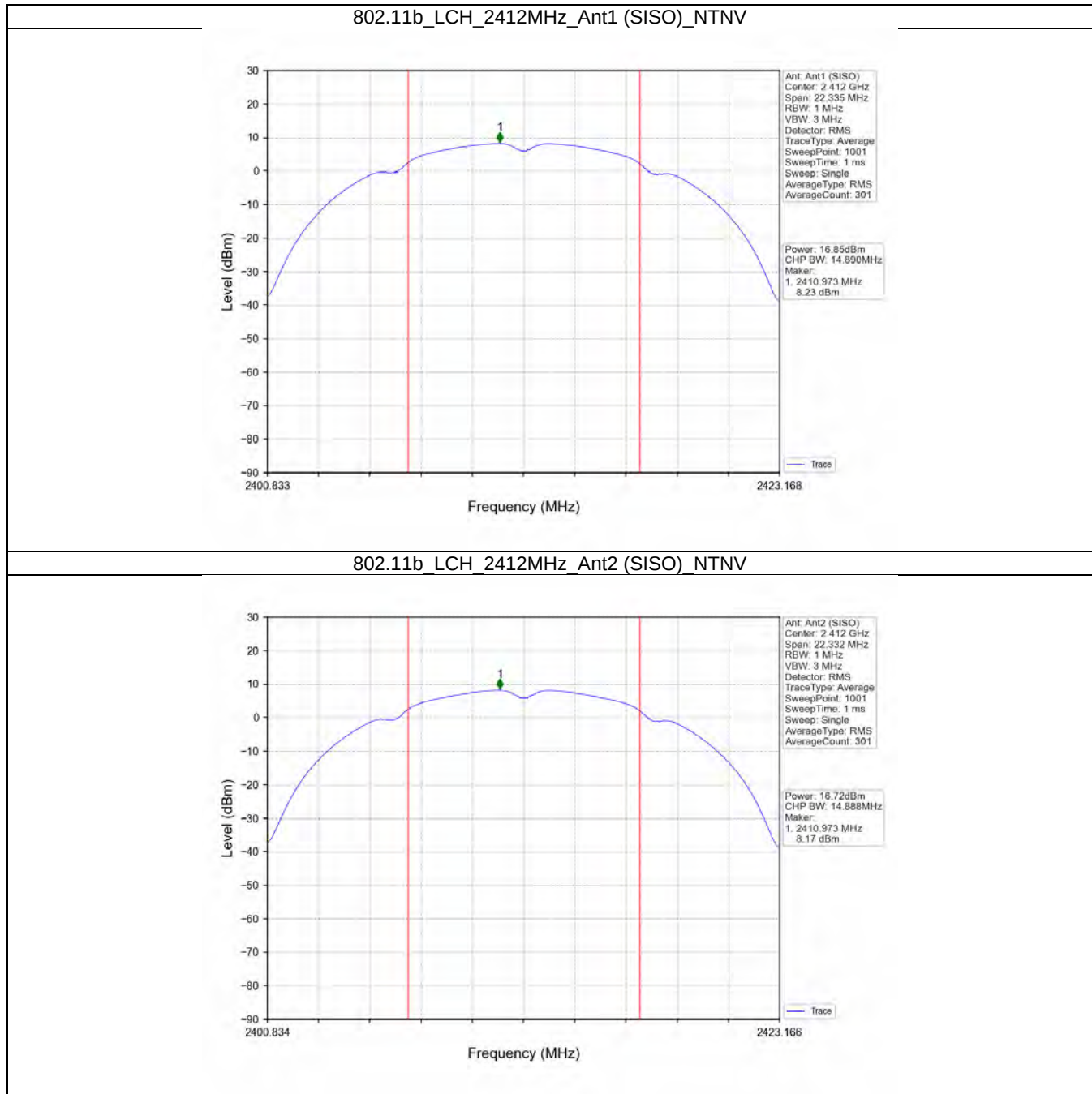
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3.1.2 Test Graph



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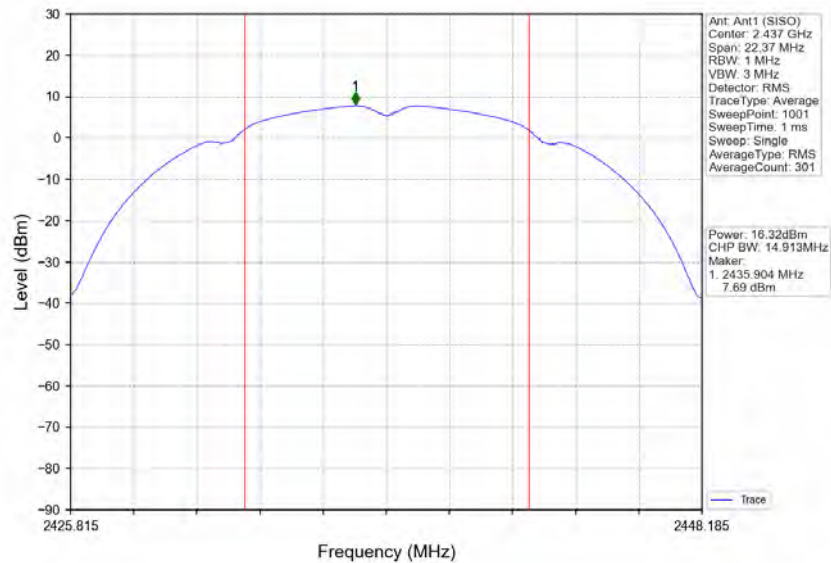
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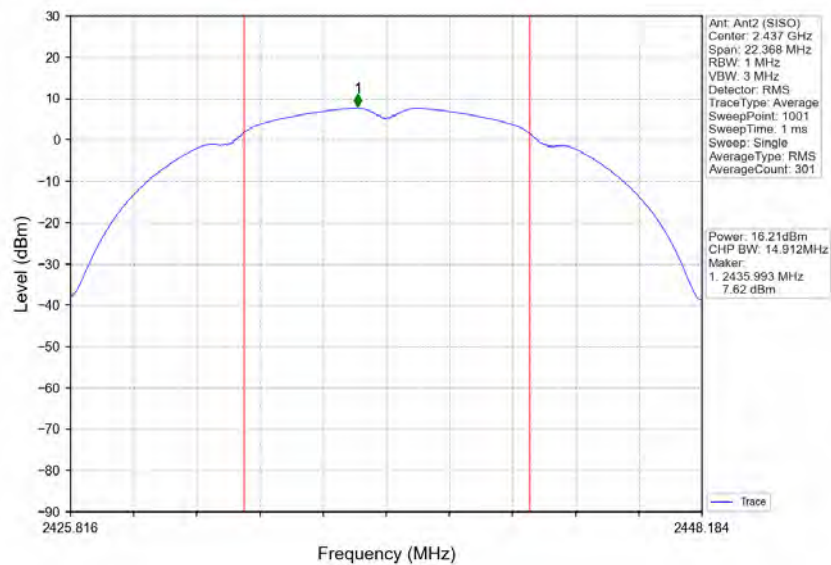
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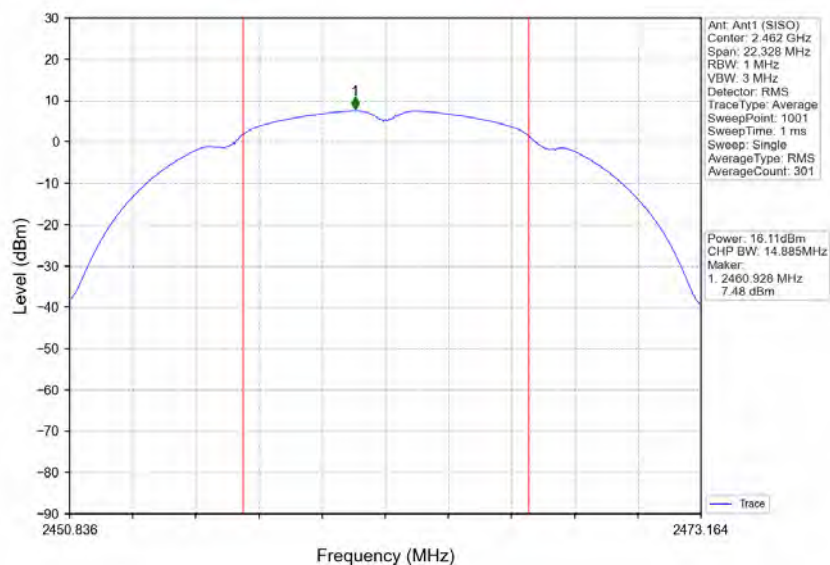
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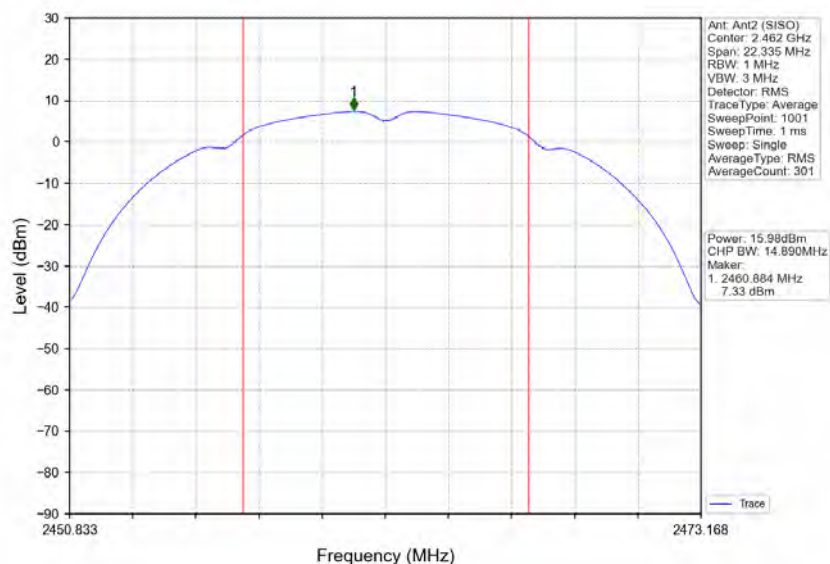
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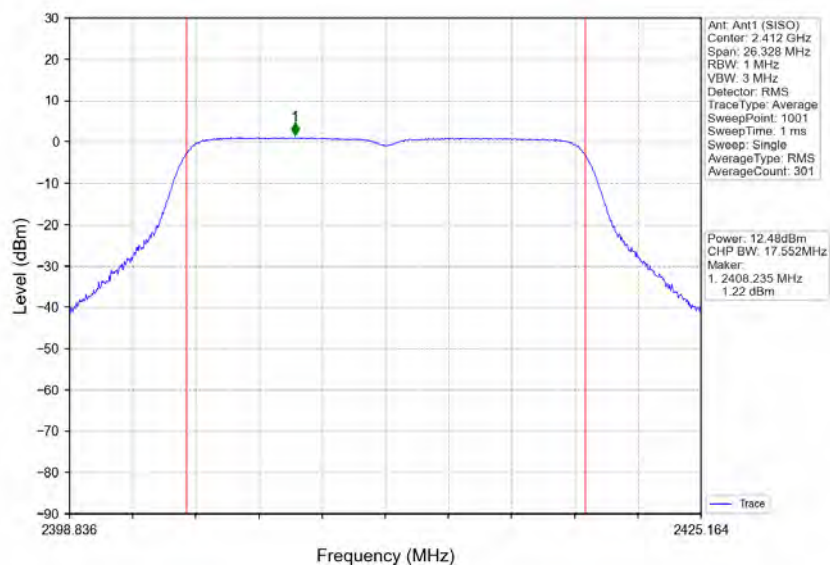
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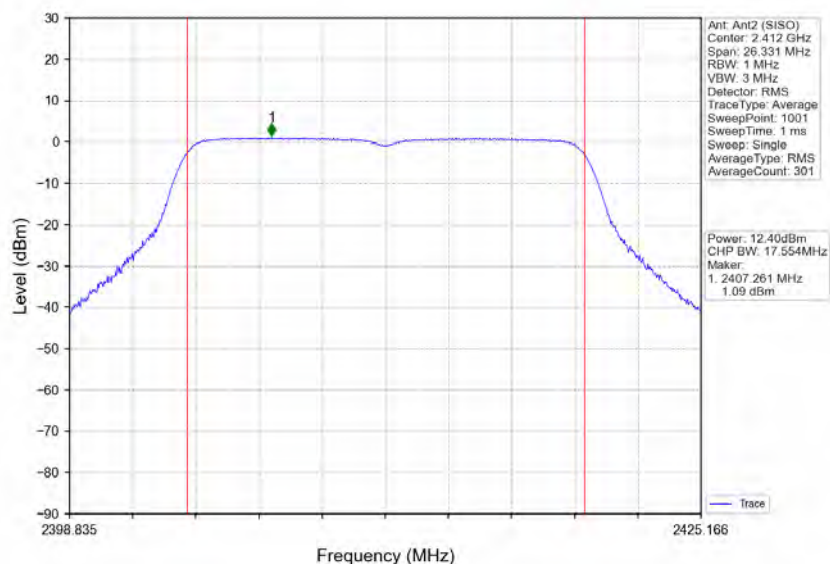
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802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant2 (SISO) NTN



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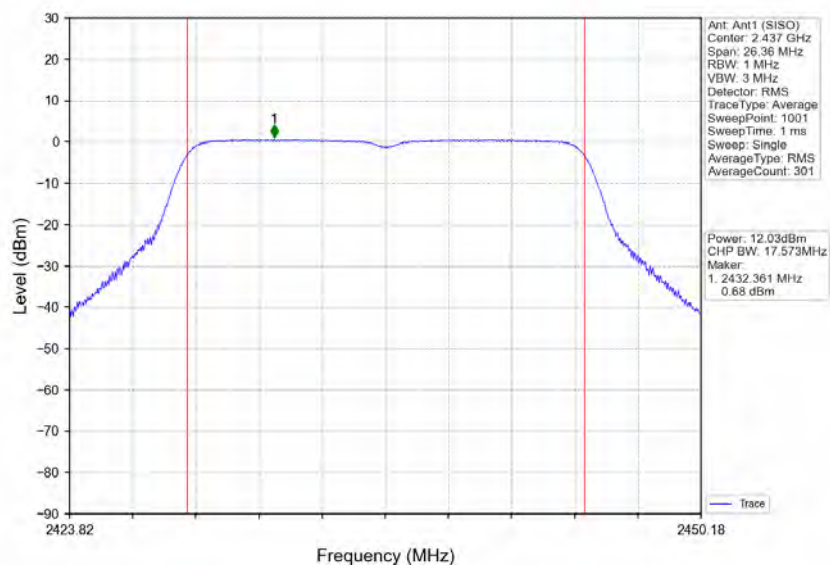
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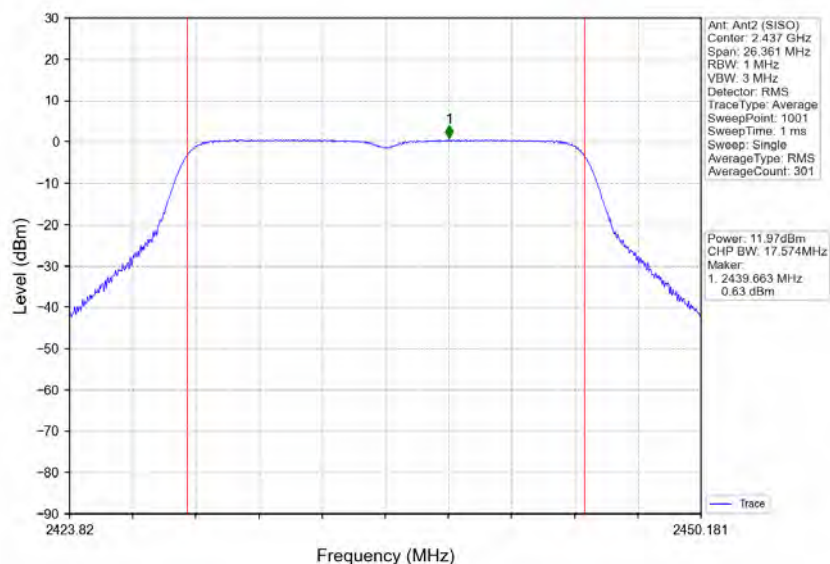
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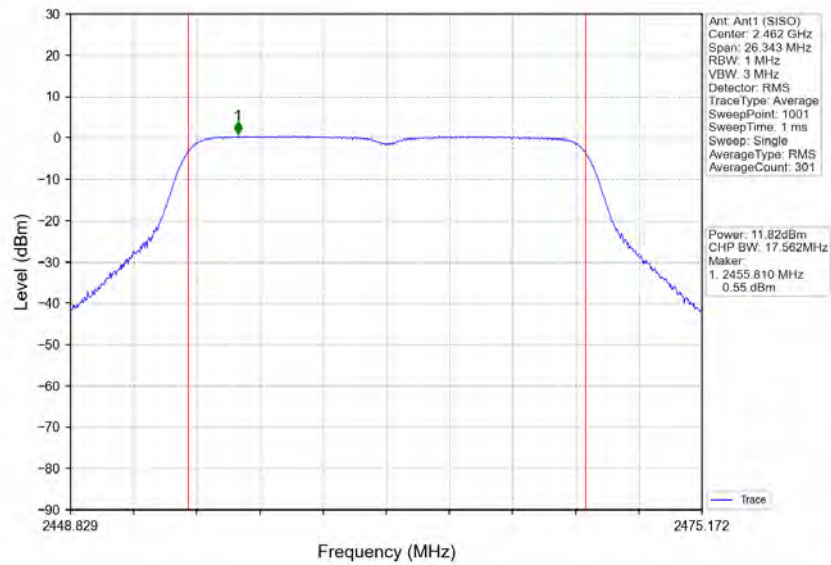
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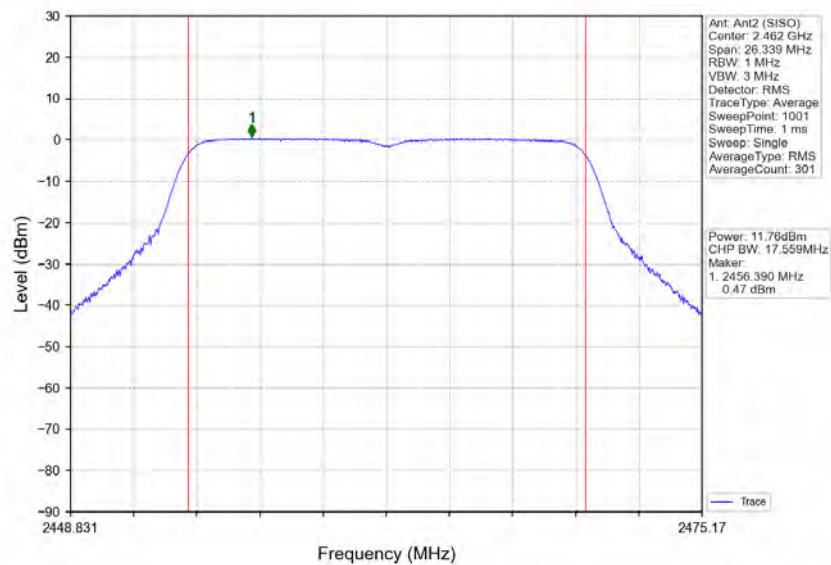
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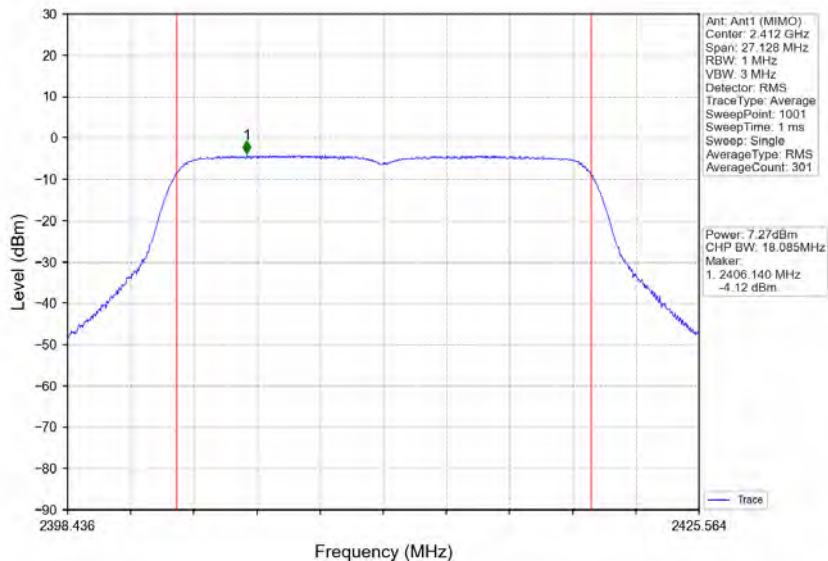
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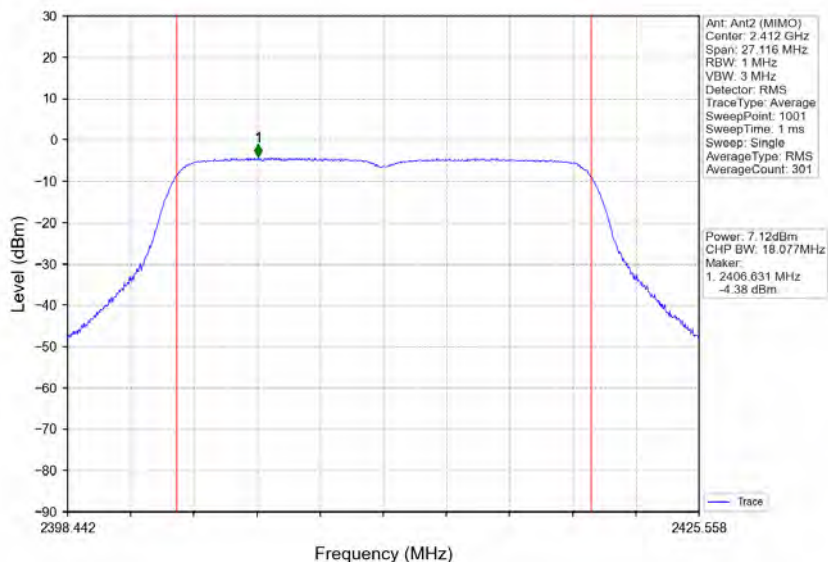
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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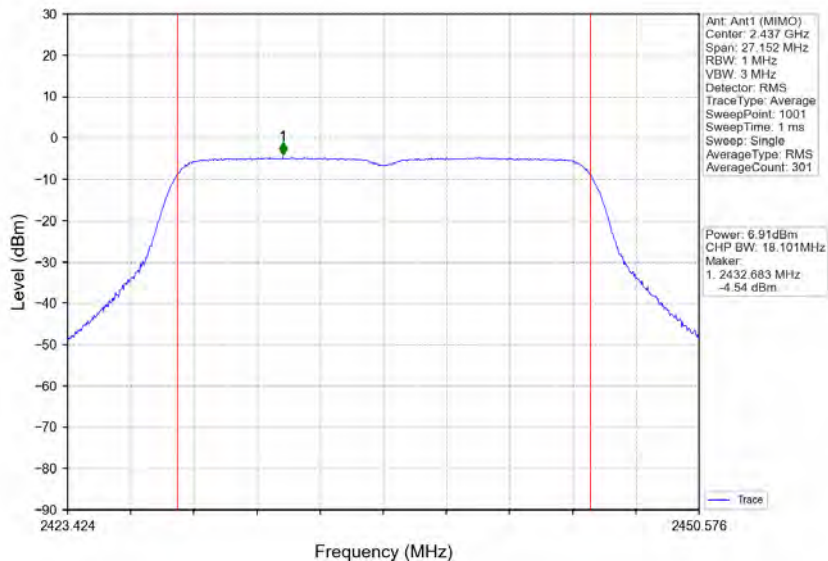
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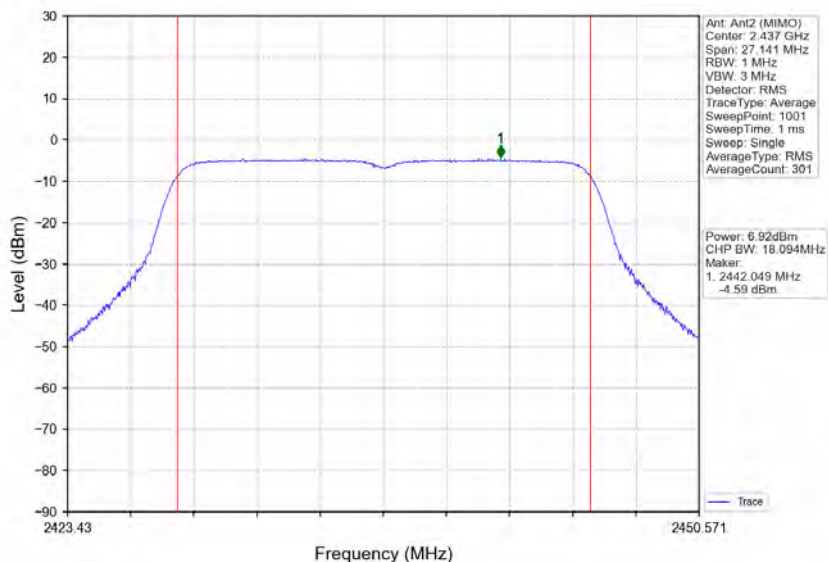
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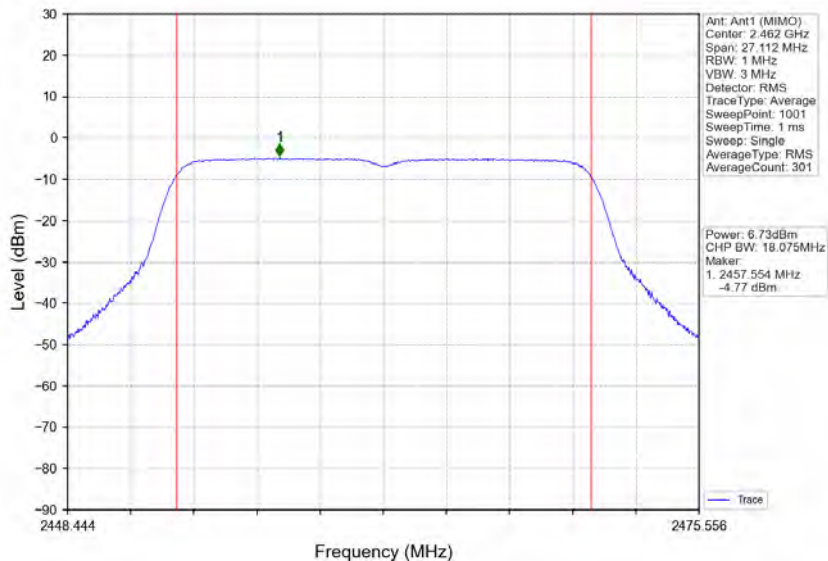
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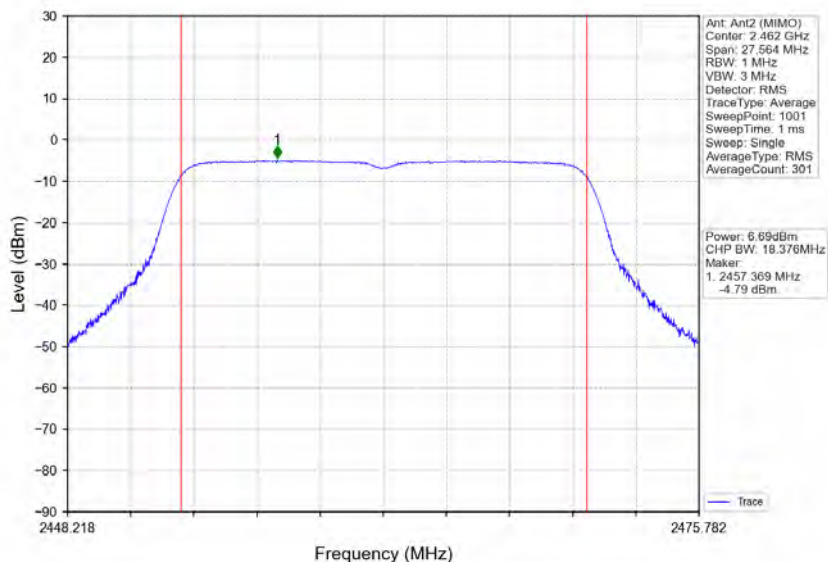
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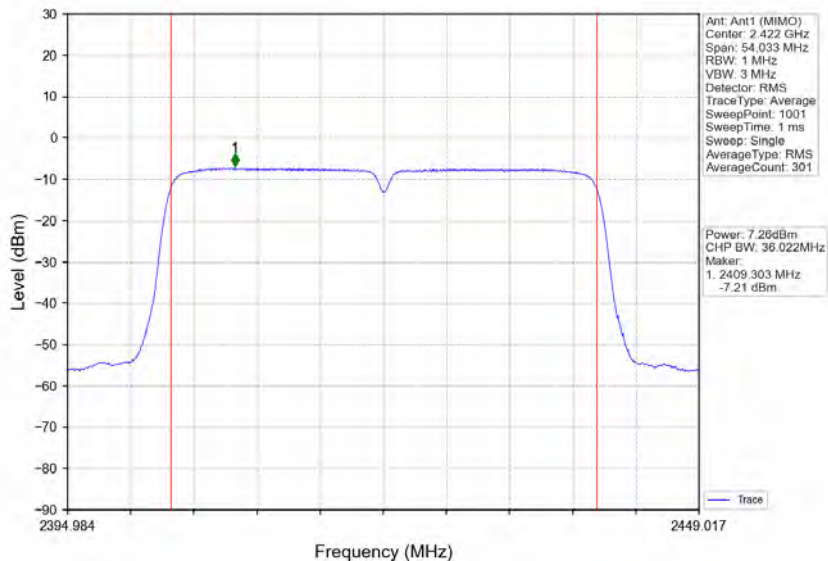
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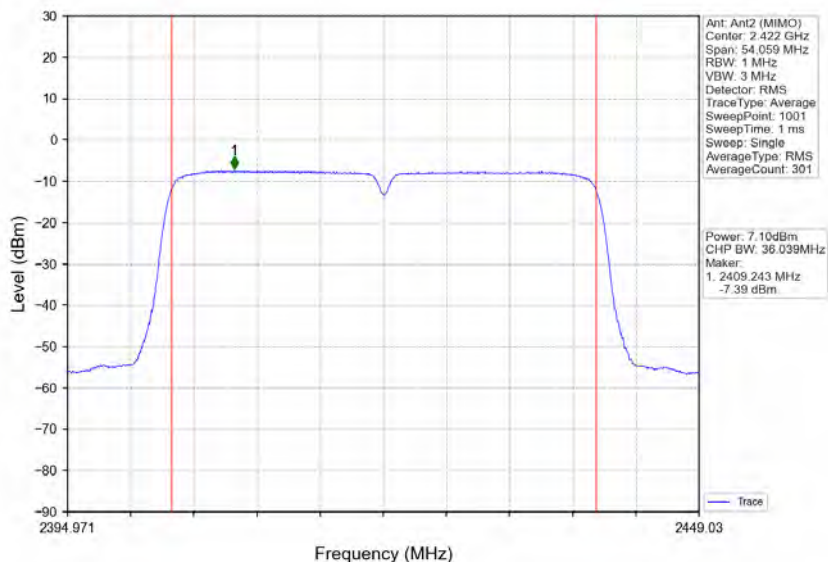
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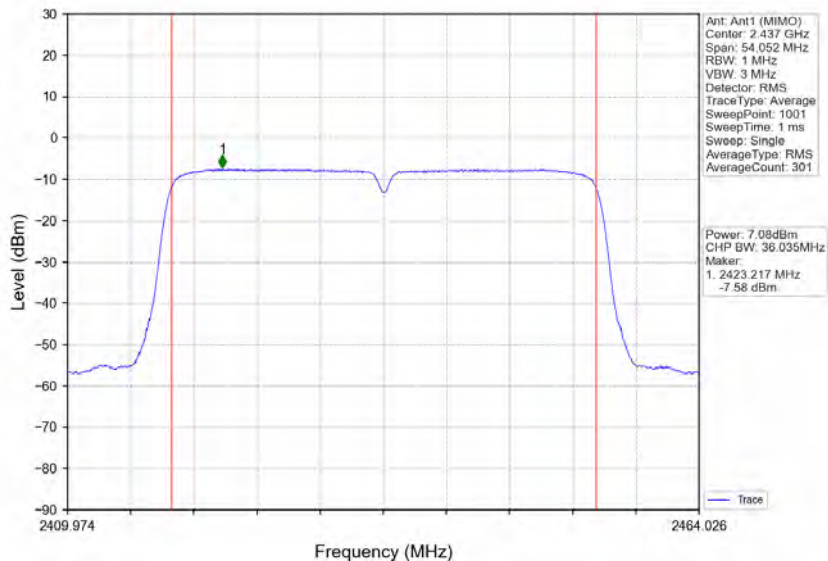
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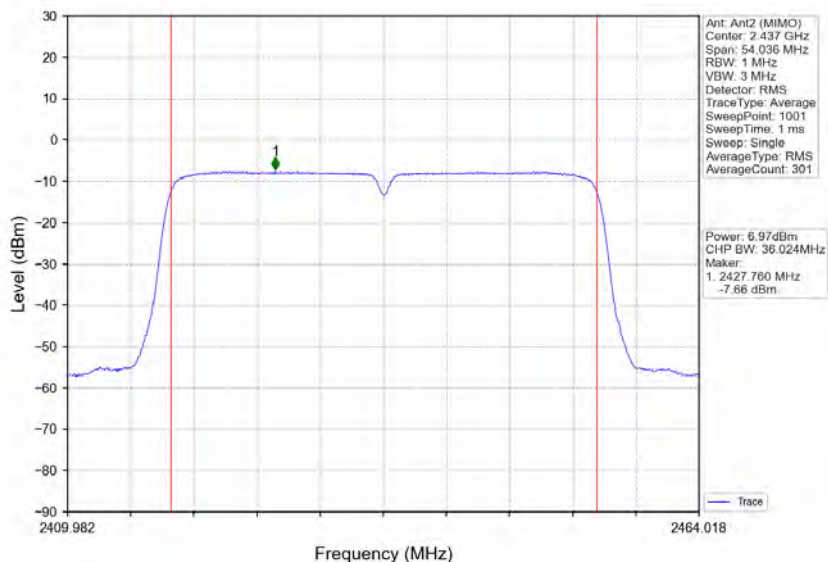
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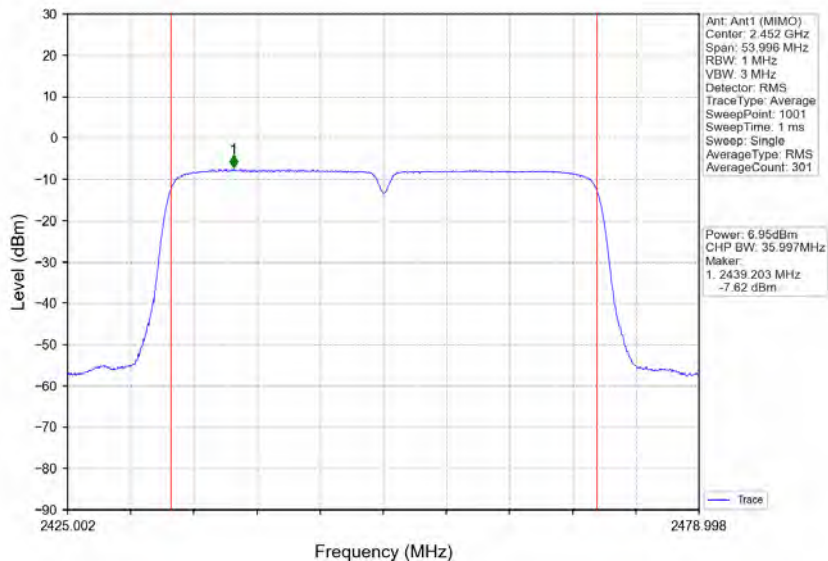
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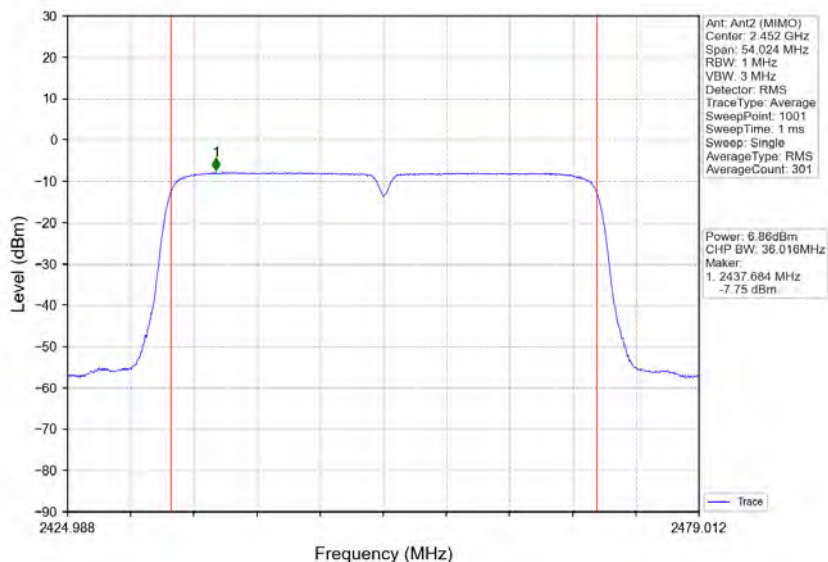
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4. Maximum Power Spectral Density

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	-13.01	-13.14	/	<=8	Pass
		2437	-13.57	-13.69	/	<=8	Pass
		2462	-13.73	-13.86	/	<=8	Pass
802.11g	SISO	2412	-16.26	-16.23	/	<=8	Pass
		2437	-16.62	-16.64	/	<=8	Pass
		2462	-16.91	-16.90	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-19.79	-19.69	-16.73	<=6.03	Pass
		2437	-19.85	-20.10	-17.03	<=6.03	Pass
		2462	-19.98	-21.34	-18.28	<=6.03	Pass
802.11n (HT40)	MIMO	2422	-22.30	-20.97	-18.57	<=6.03	Pass
		2437	-23.09	-21.34	-19.28	<=6.03	Pass
		2452	-23.06	-21.59	-19.44	<=6.03	Pass

Note1: Antenna Gain: Ant1: 4.96dBi; Ant2: 4.96dBi;

Note2: Directional Gain: 7.97dBi



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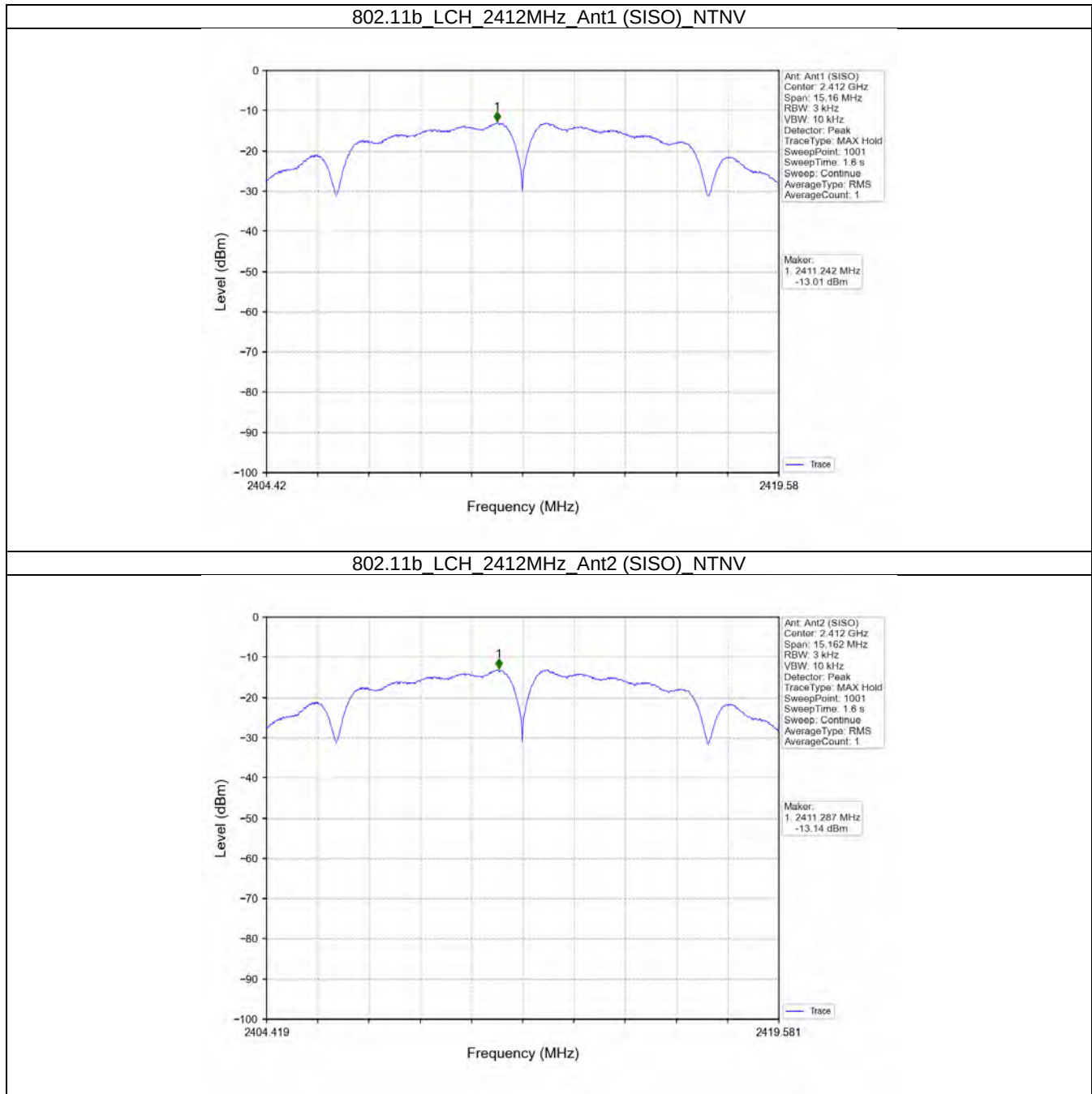
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4.1.2 Test Graph



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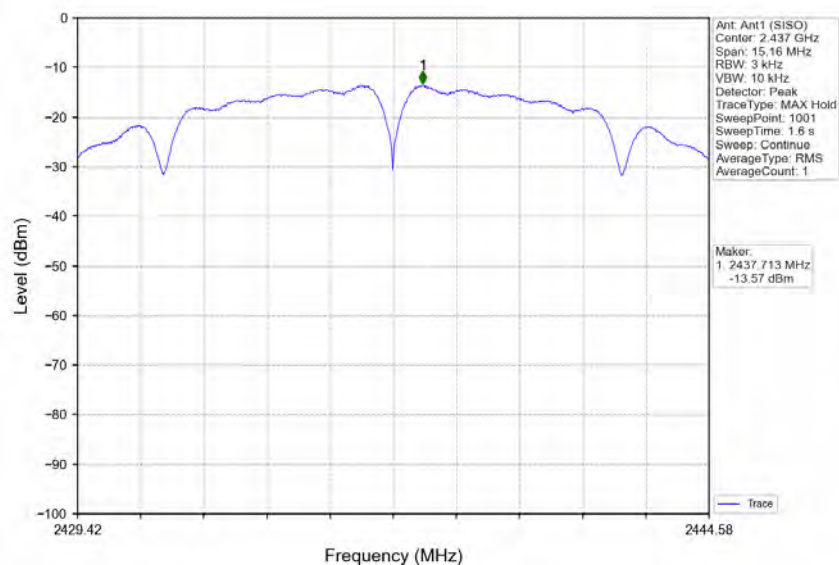
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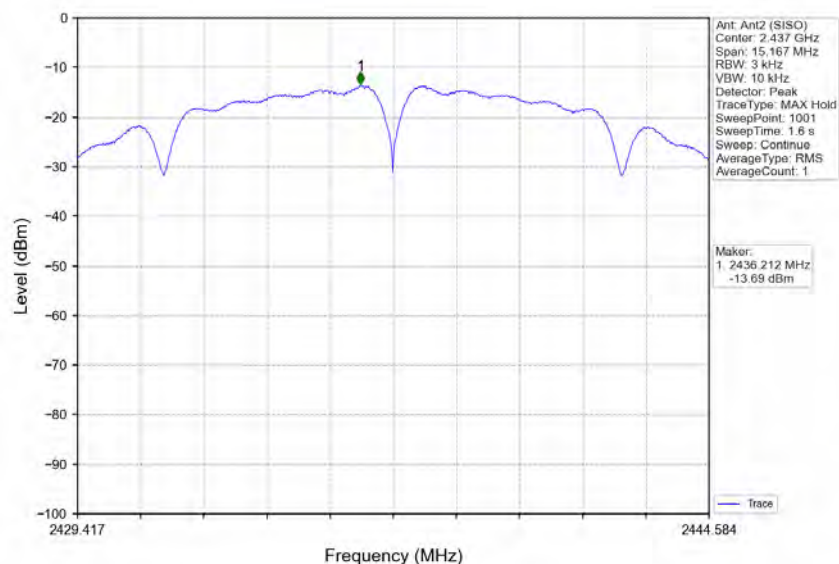
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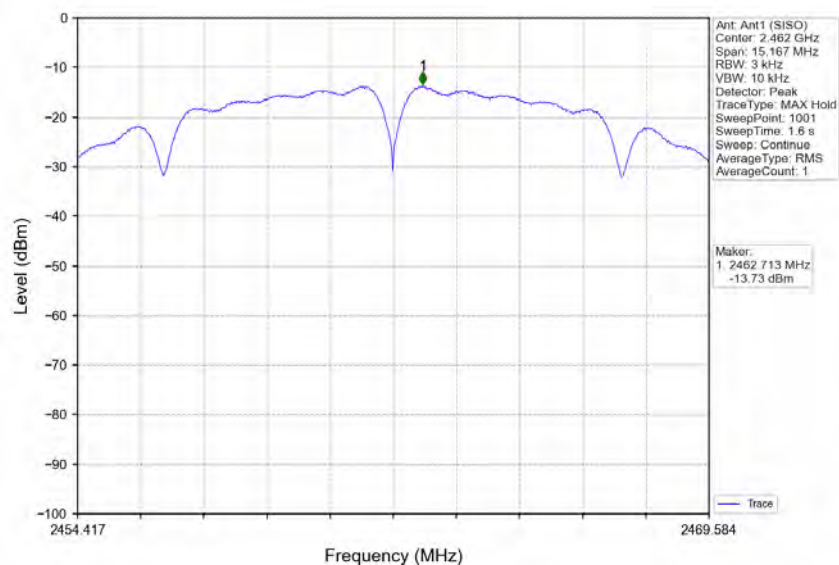
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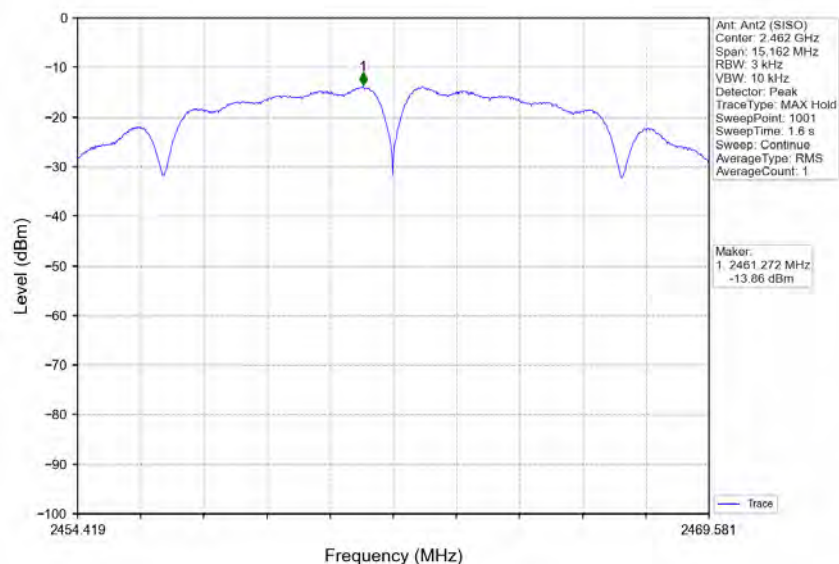
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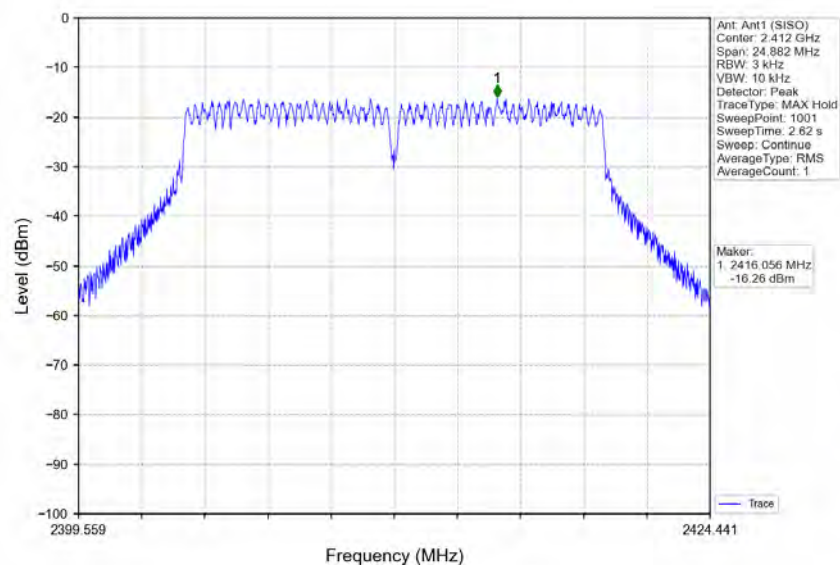
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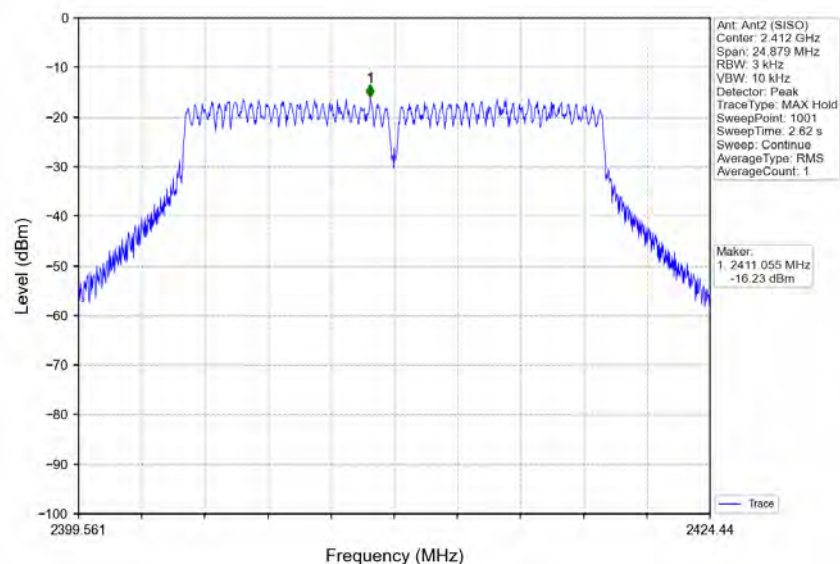
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802.11g LCH 2412MHz Ant1 (SISO) NTNV



802.11g LCH 2412MHz Ant2 (SISO) NTNV



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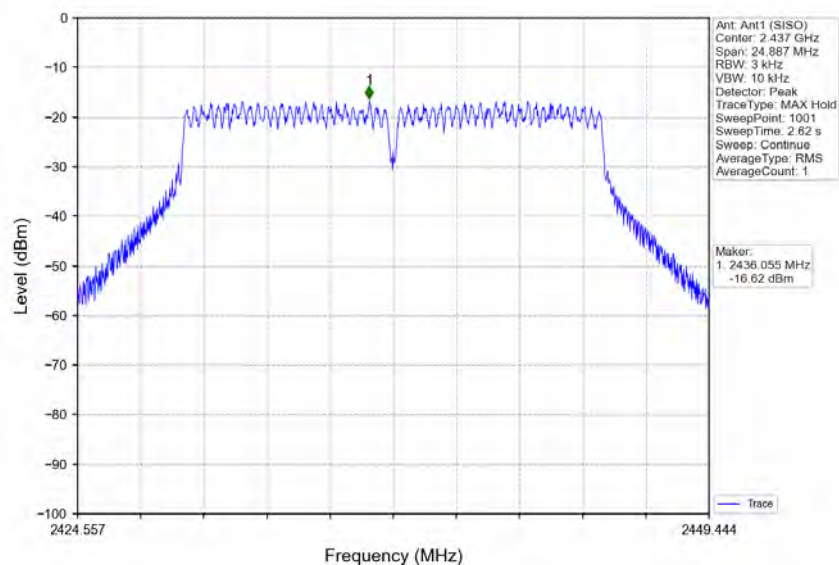
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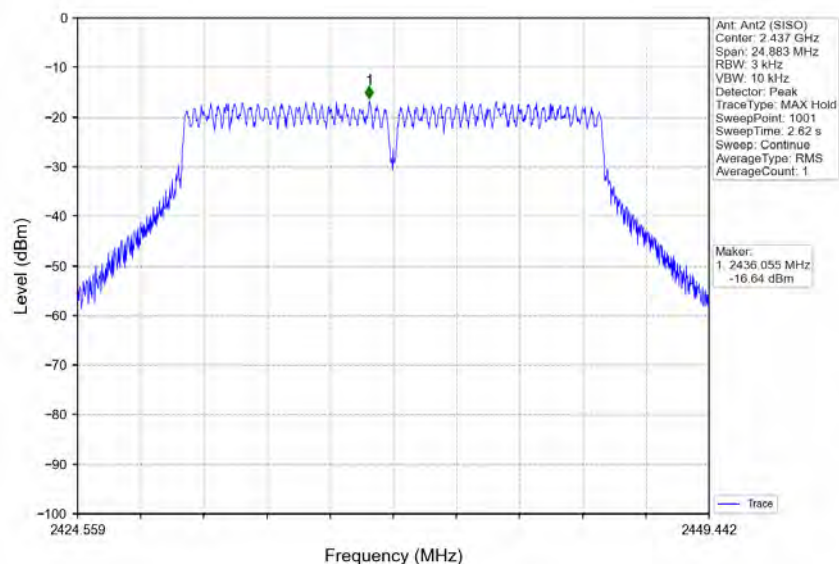
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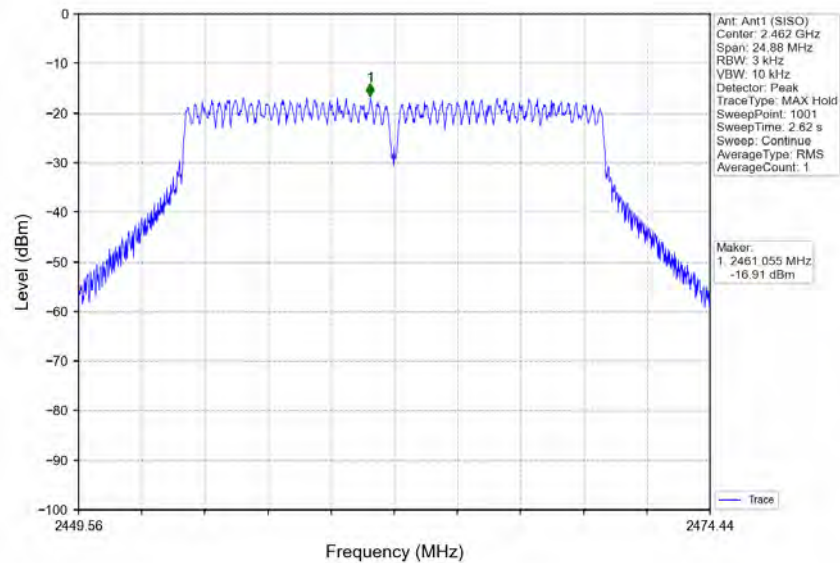
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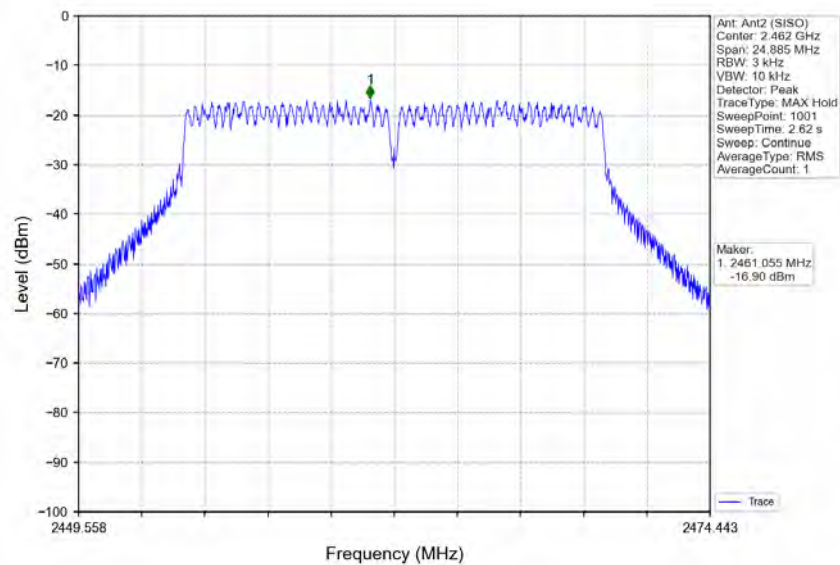
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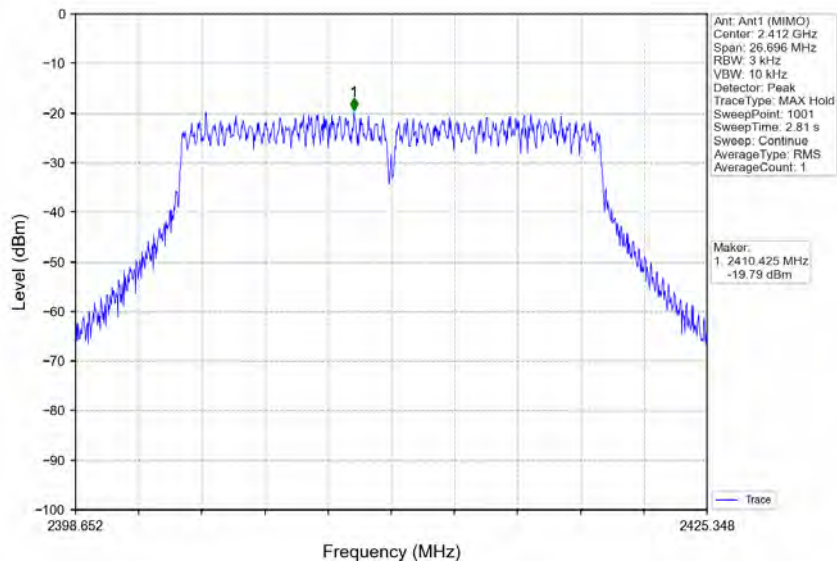
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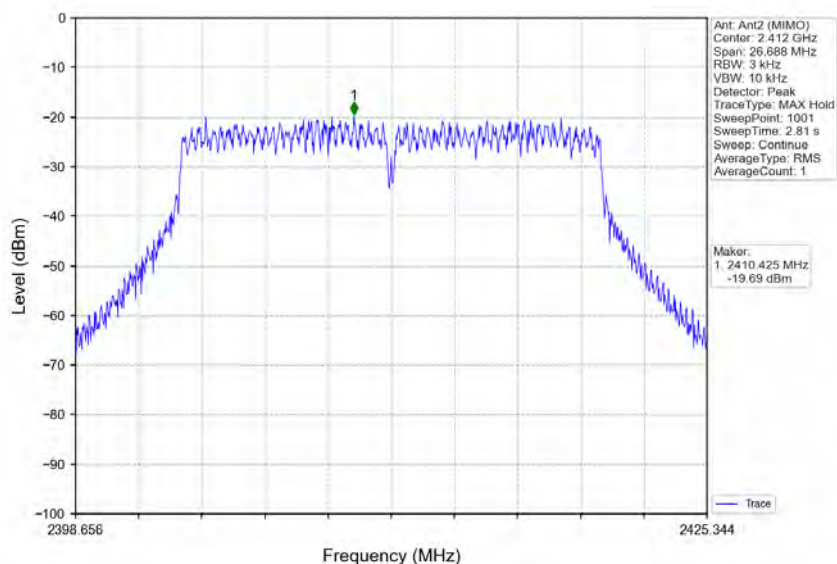
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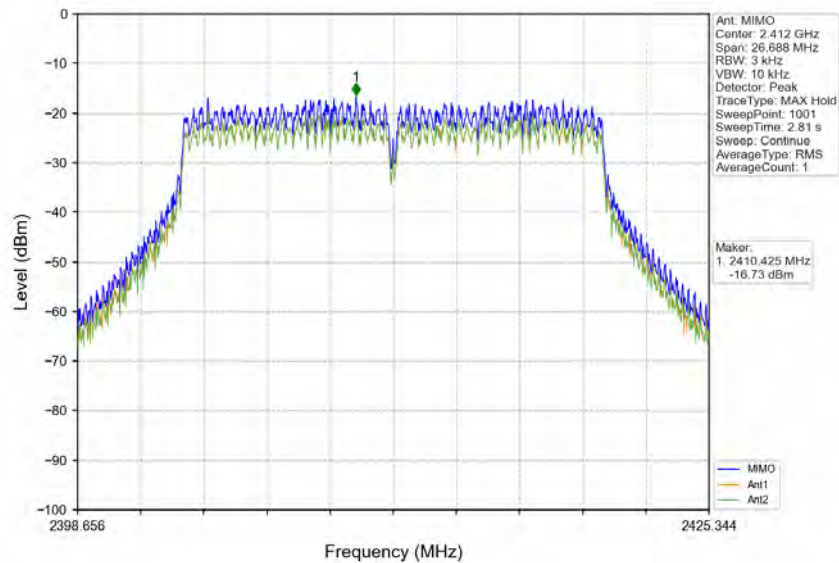
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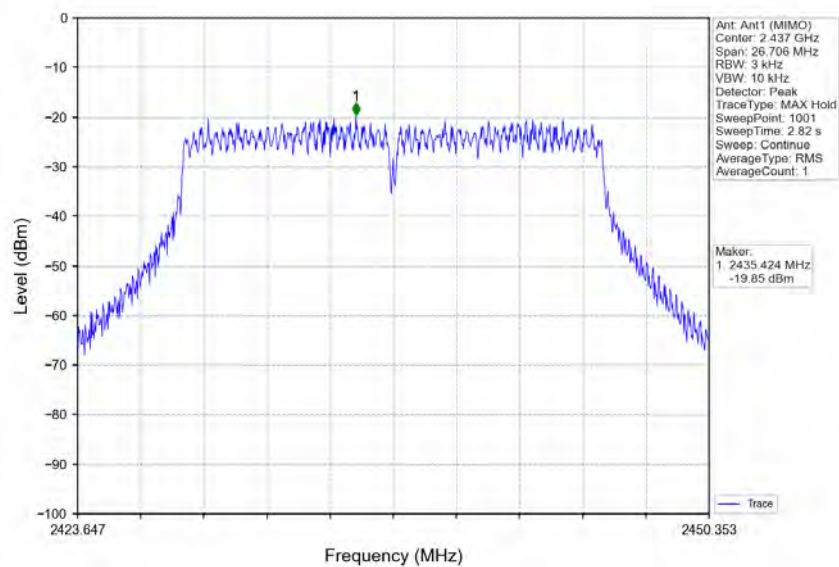
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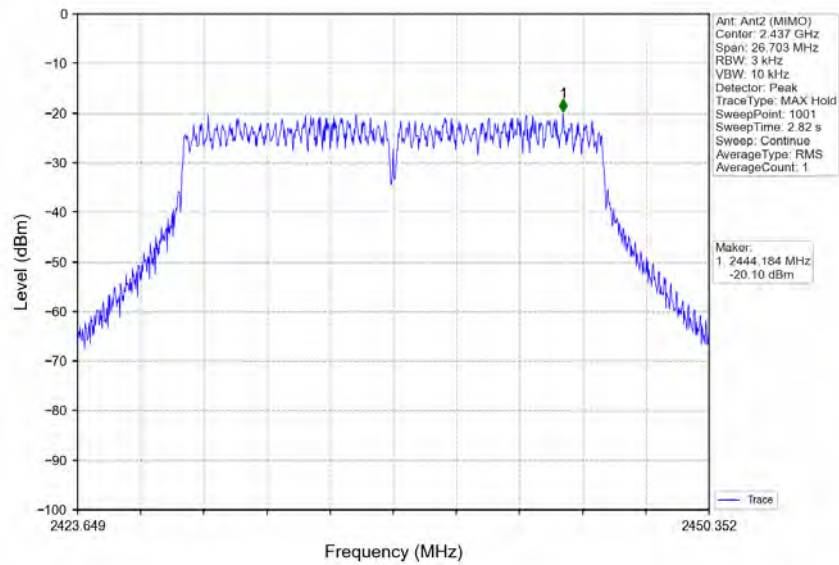
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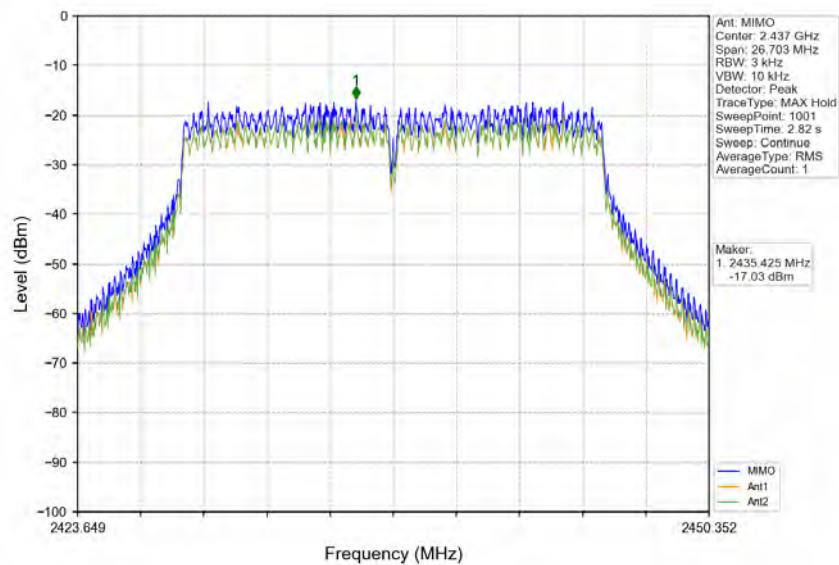
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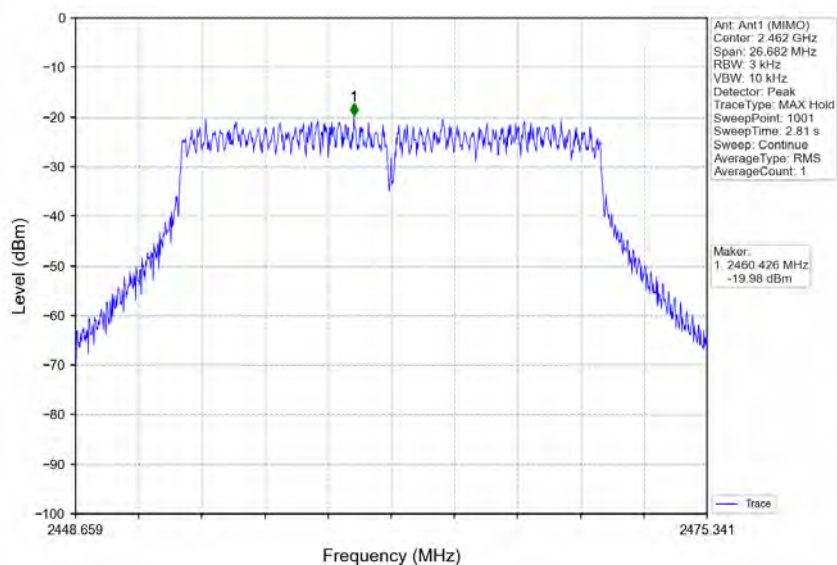
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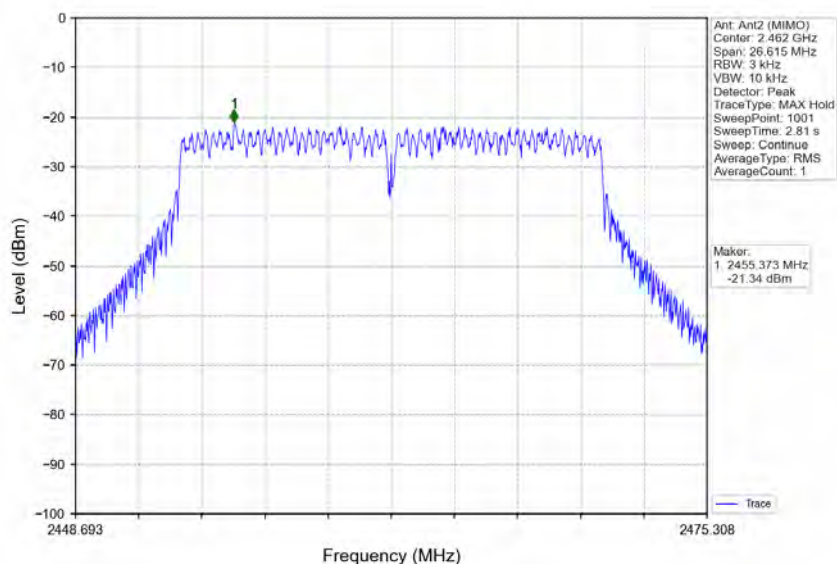
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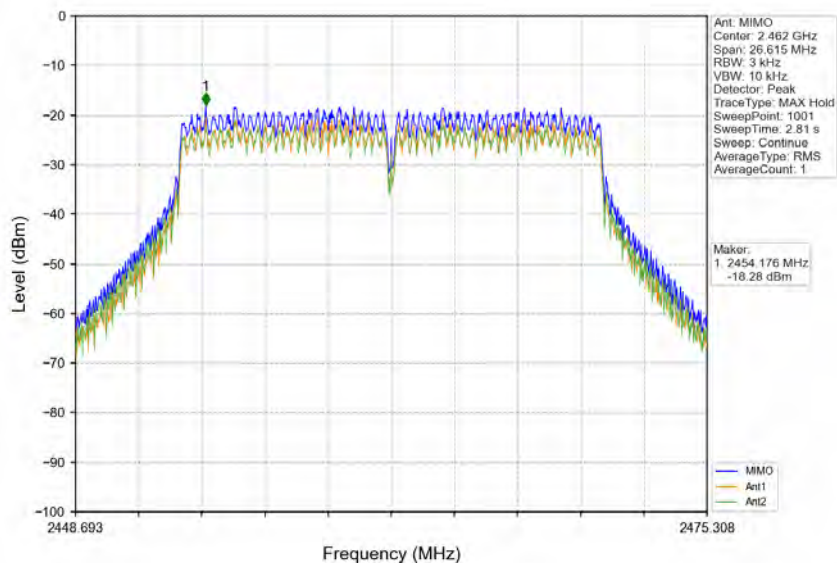
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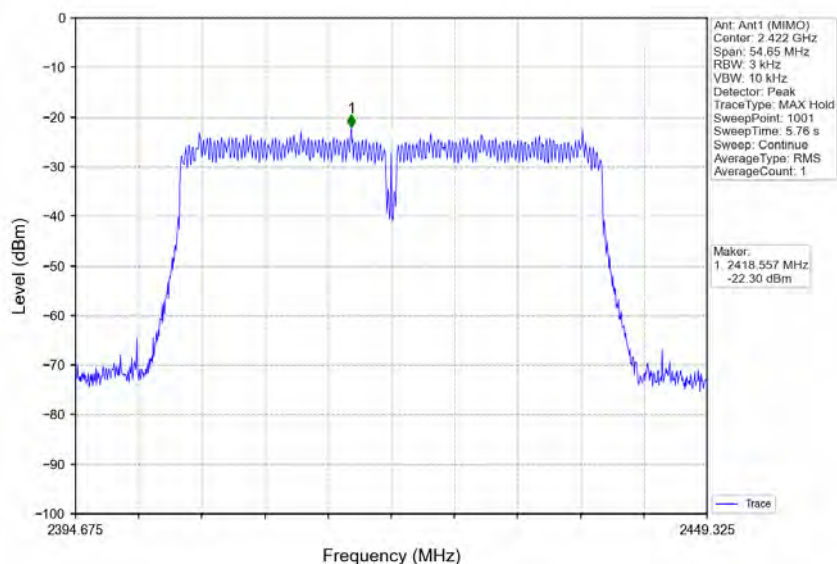
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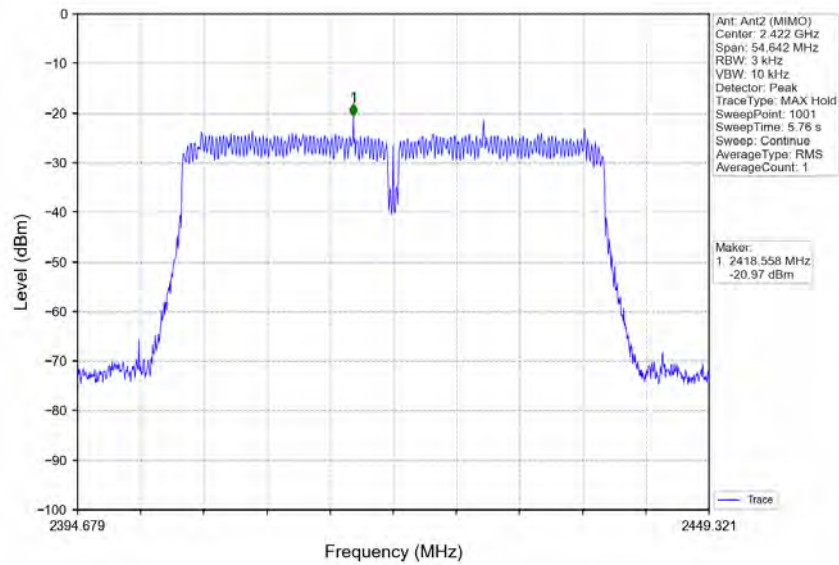
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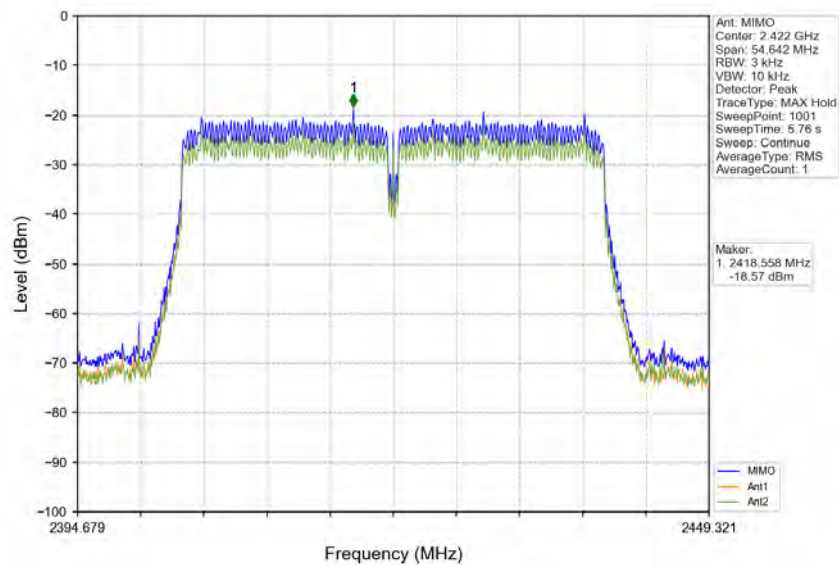
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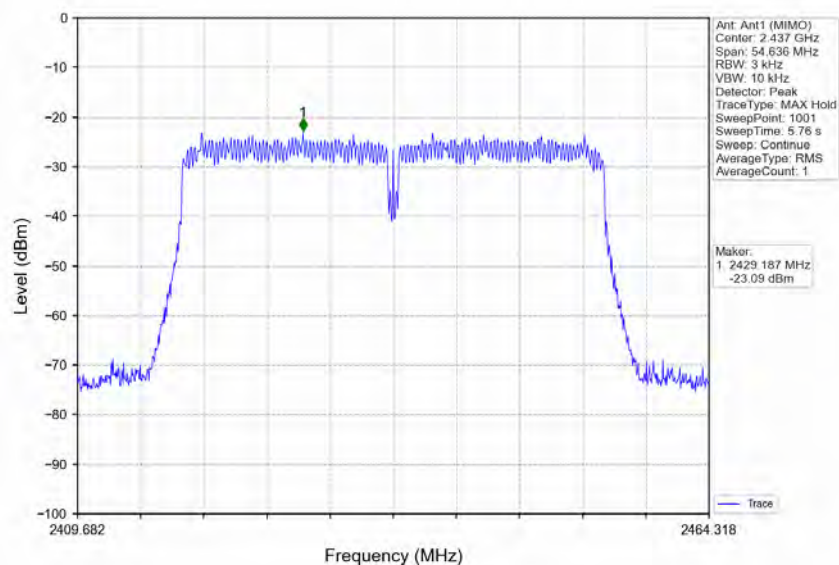
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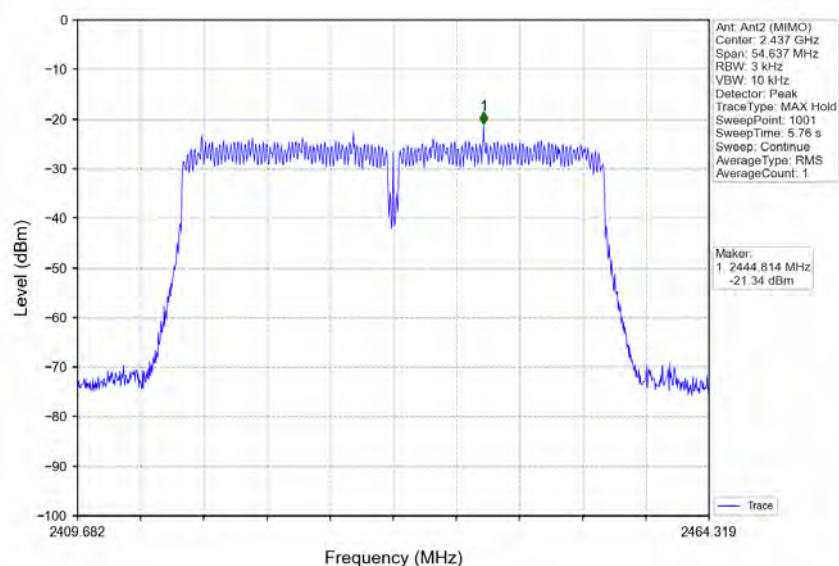
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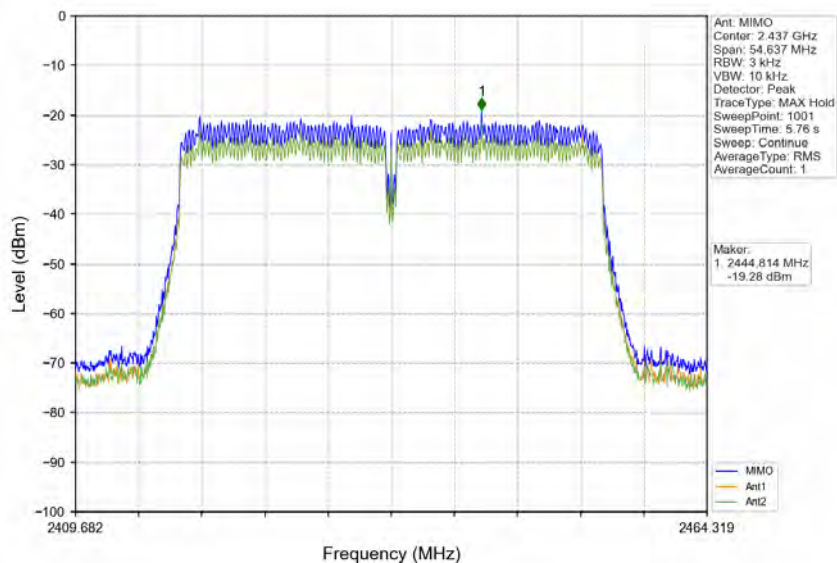
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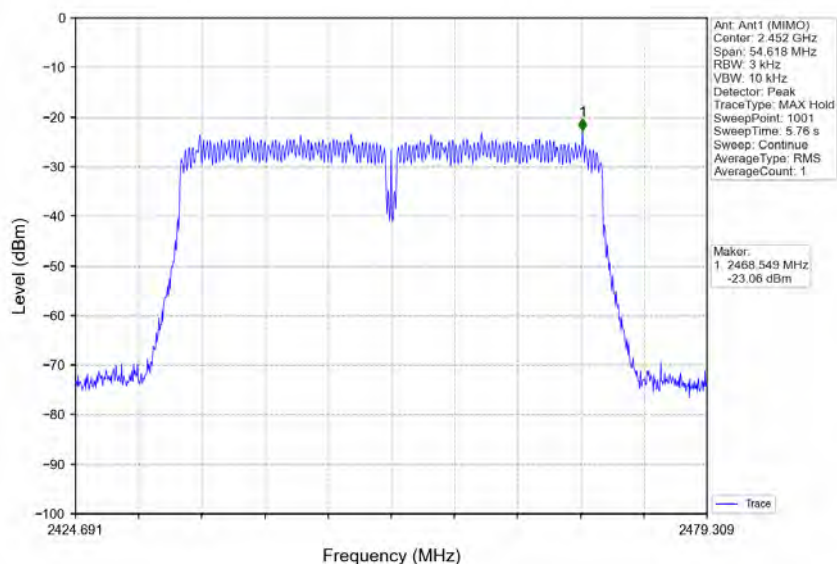
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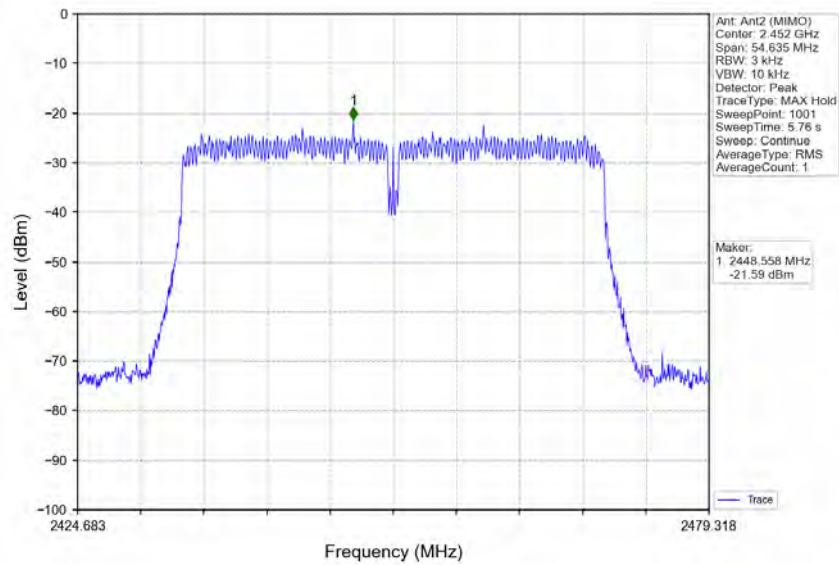
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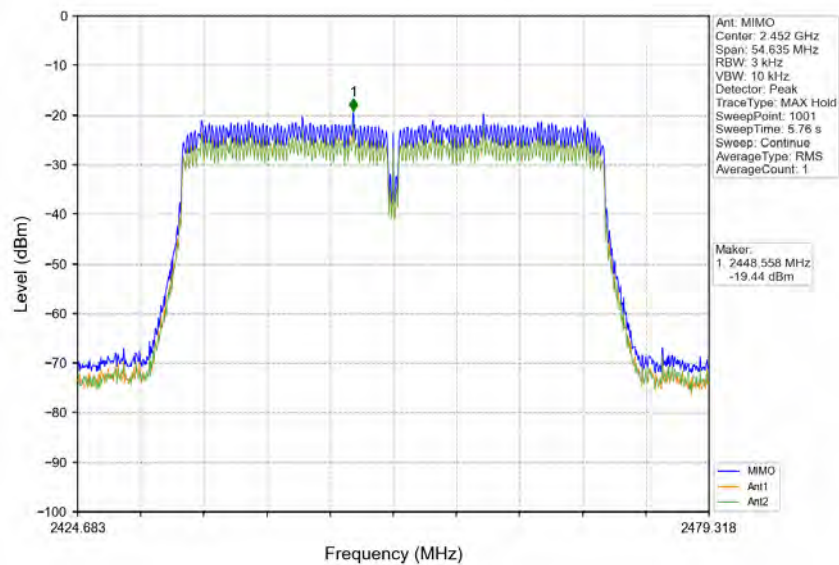
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO) _NTNV



802.11n(HT40)_HCH_2452MHz_MIMO _NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.86
			2	6.70
		2437	1	6.32
			2	6.18
		2462	1	6.12
			2	5.99
802.11g	SISO	2412	1	-1.85
			2	-1.89
		2437	1	-2.25
			2	-2.47
		2462	1	-2.56
			2	-2.48
802.11n (HT20)	MIMO	2412	1	-5.50
			2	-5.61
		2437	1	-6.02
			2	-5.87
		2462	1	-6.13
			2	-7.13
802.11n (HT40)	MIMO	2422	1	-9.88
			2	-9.89
		2437	1	-10.00
			2	-10.24
		2452	1	-10.07
			2	-10.36

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

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



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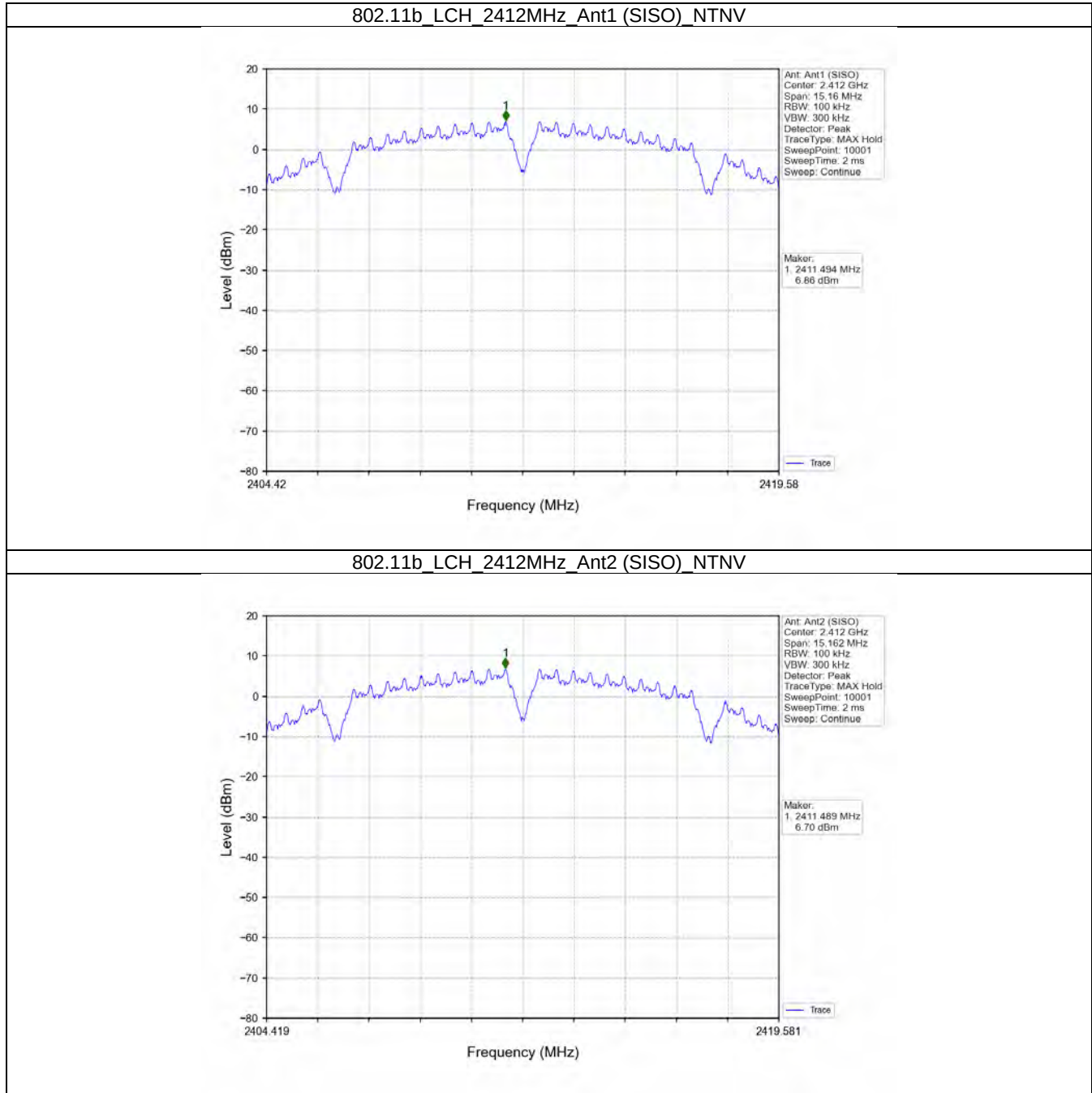
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5.1.2 Test Graph



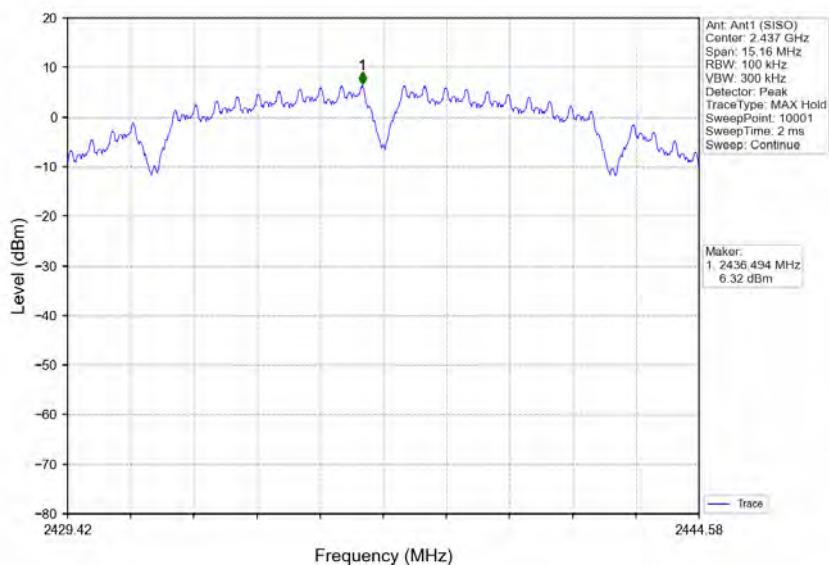
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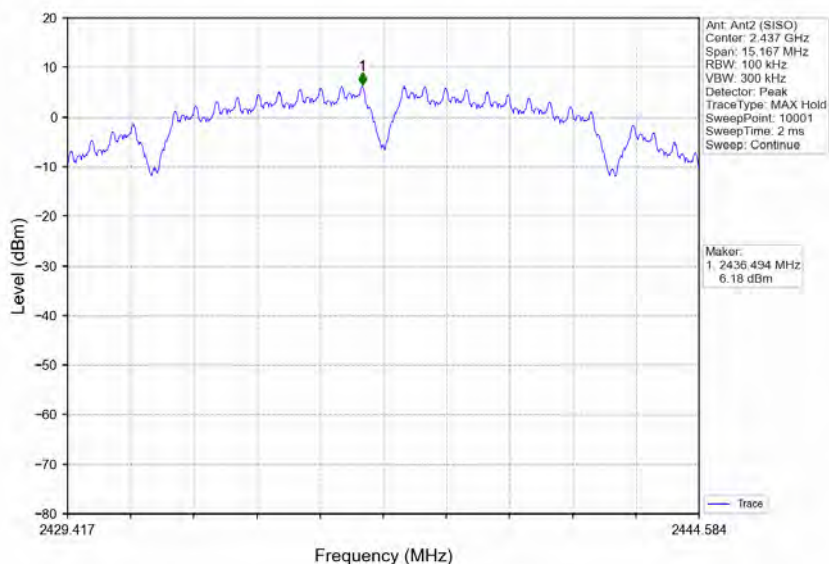
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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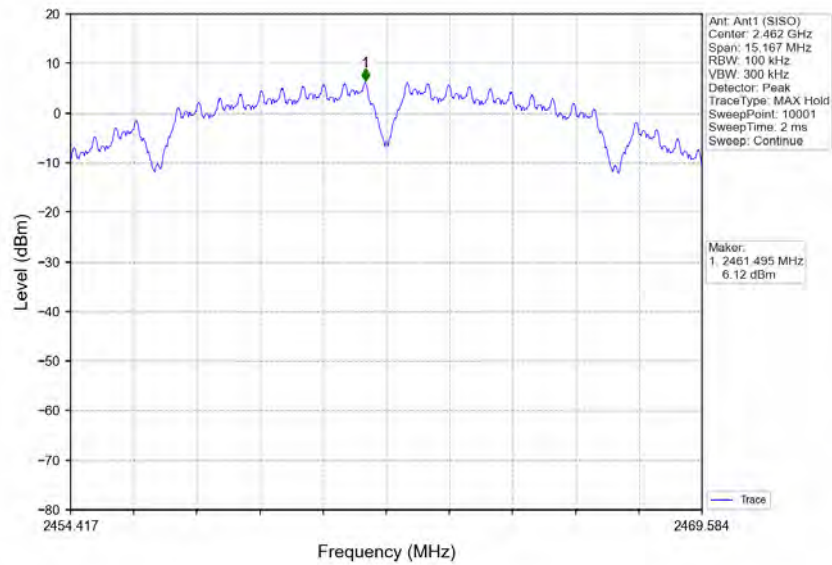
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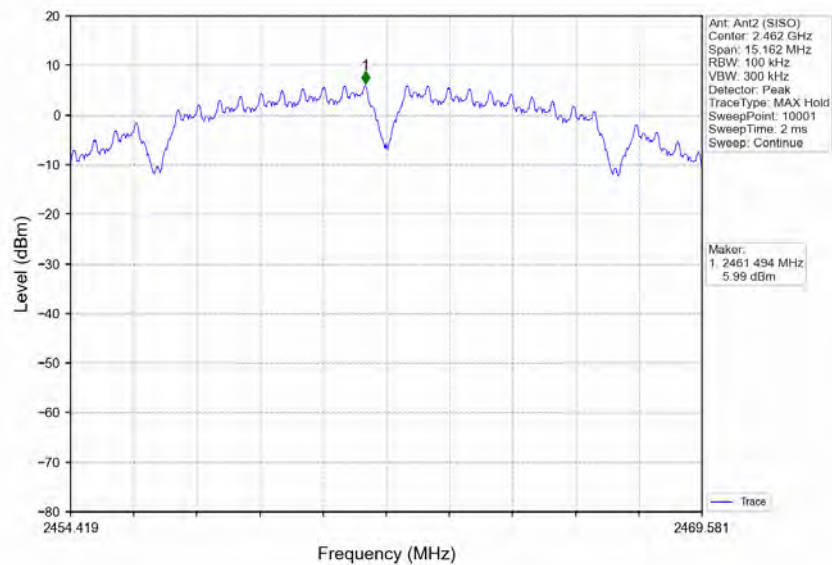
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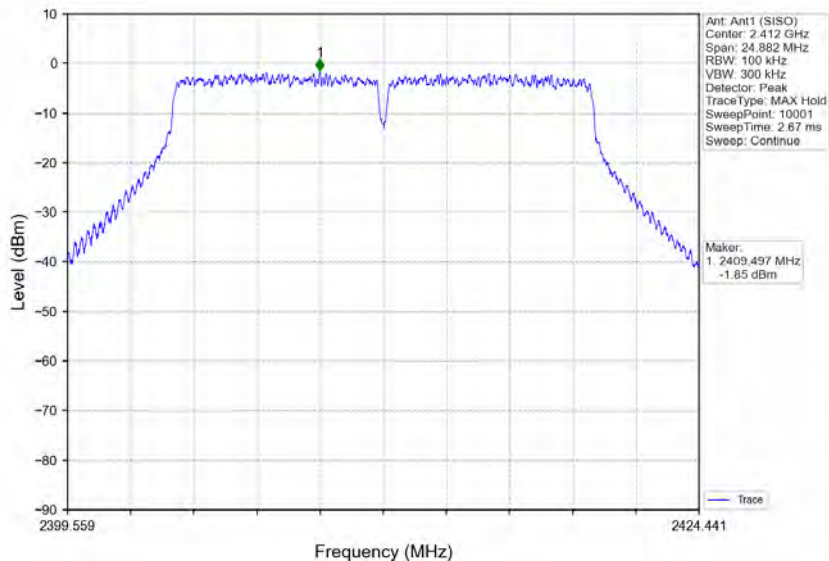
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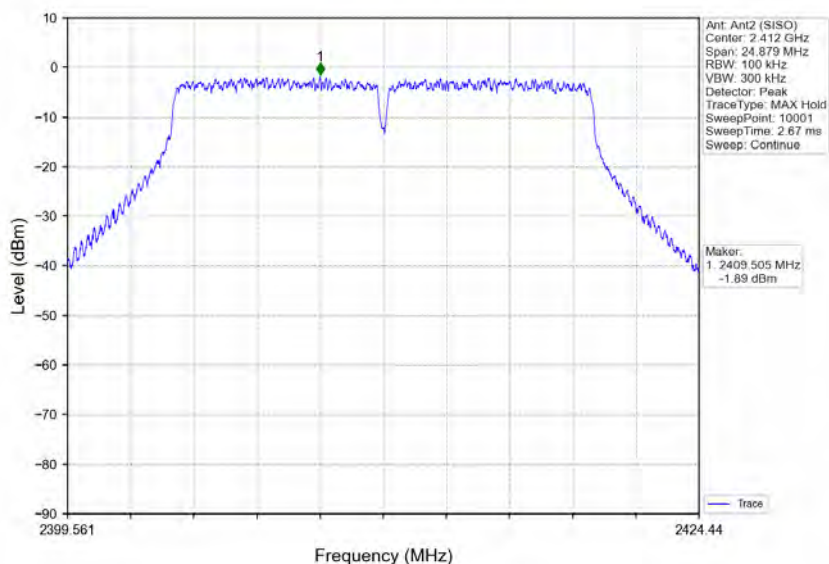
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



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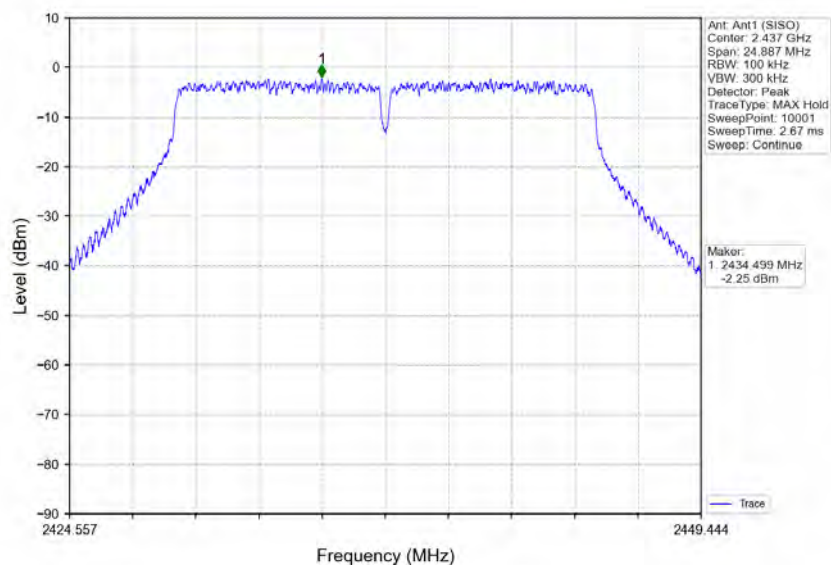
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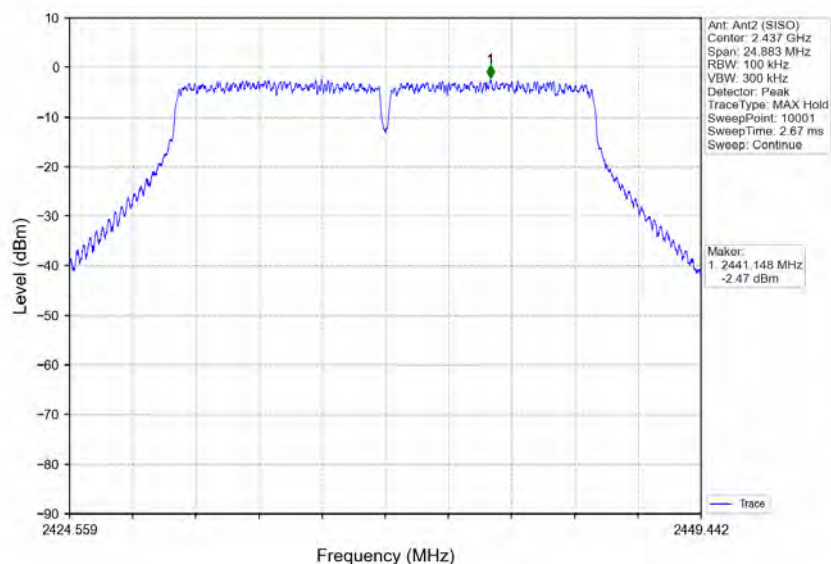
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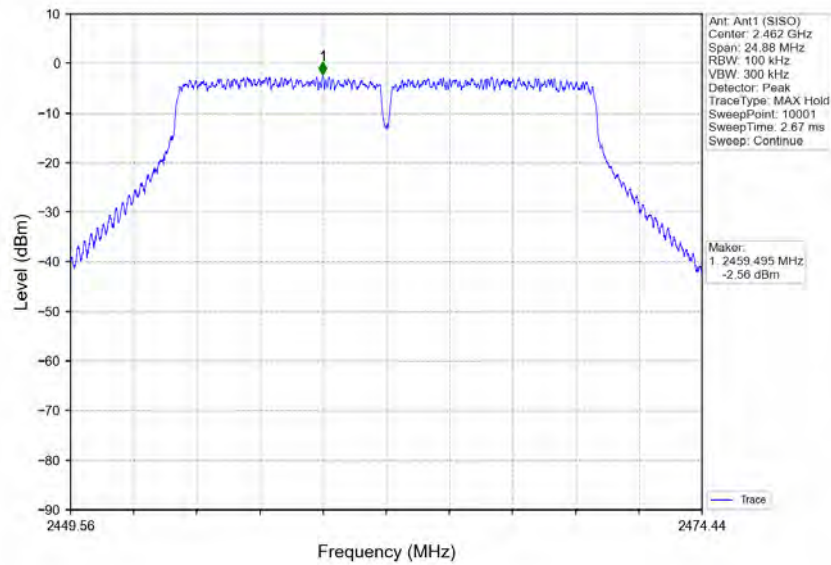
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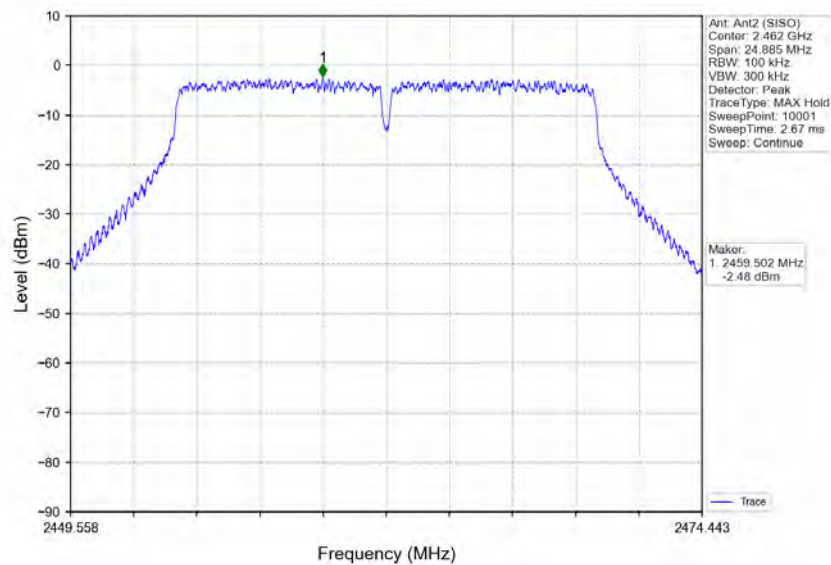
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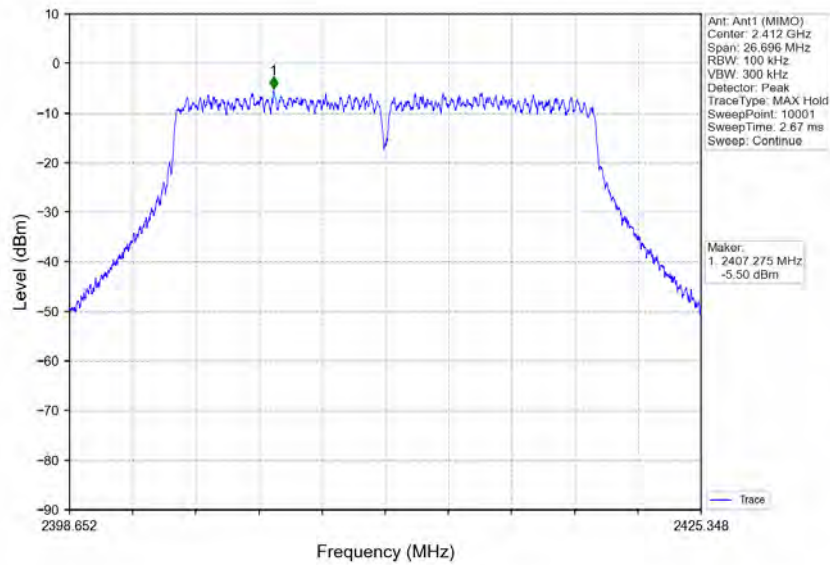
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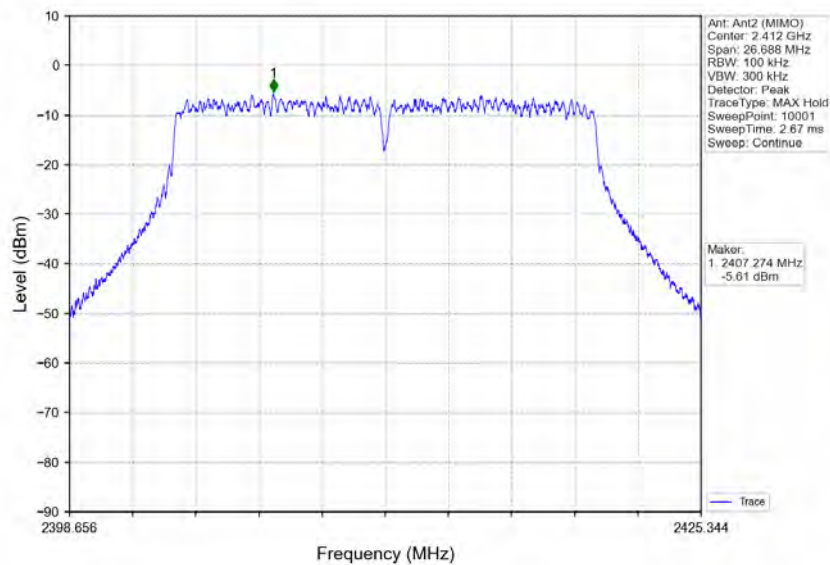
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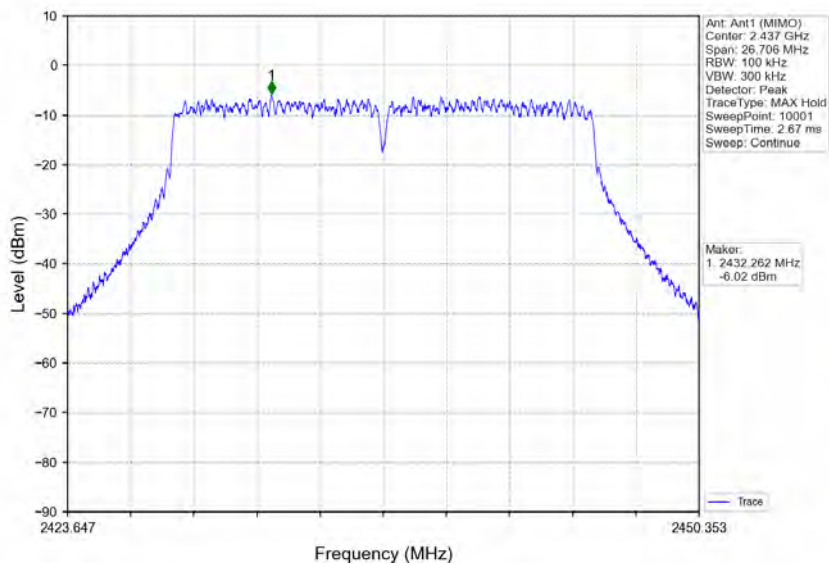
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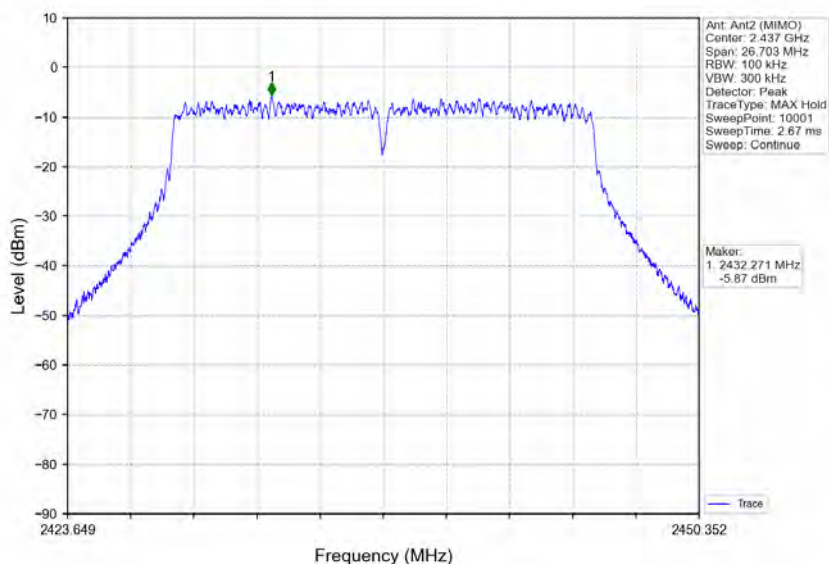
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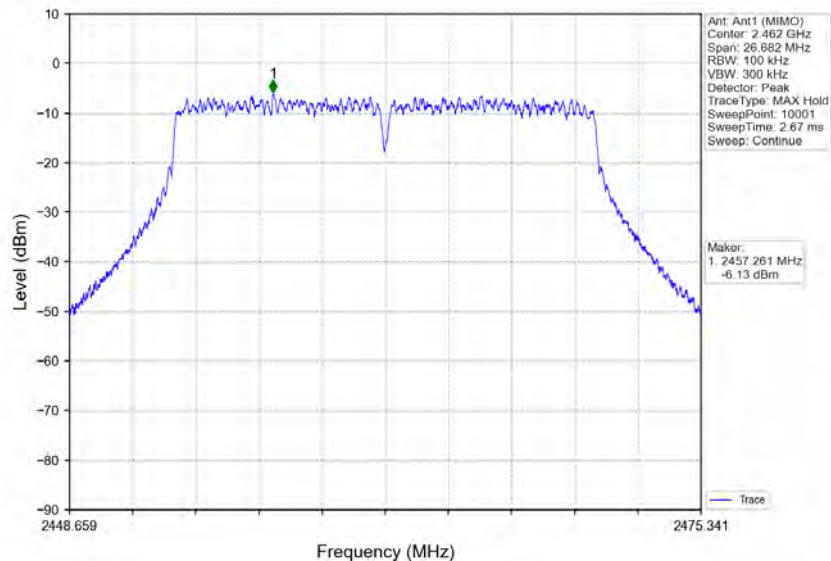
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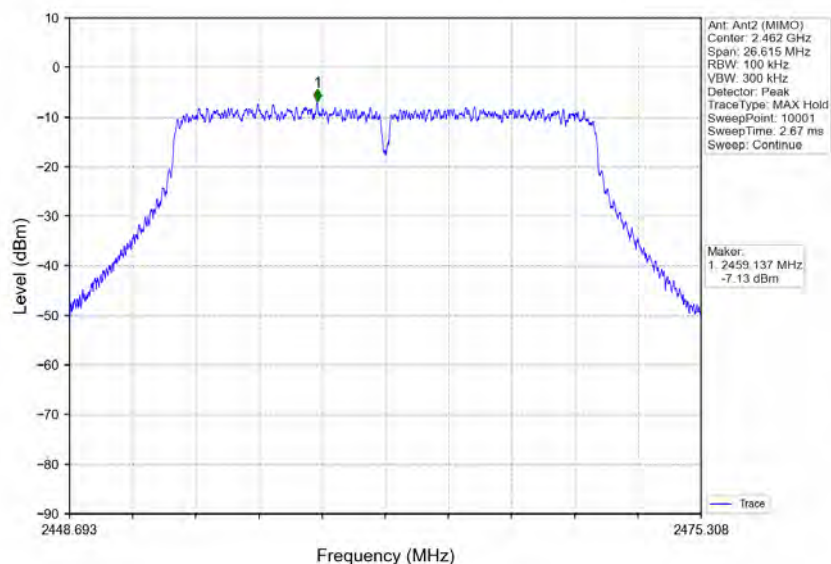
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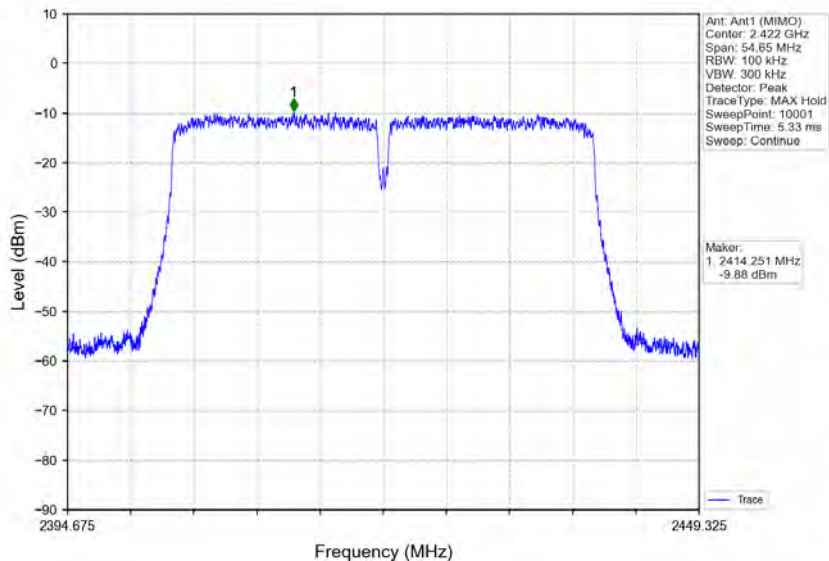
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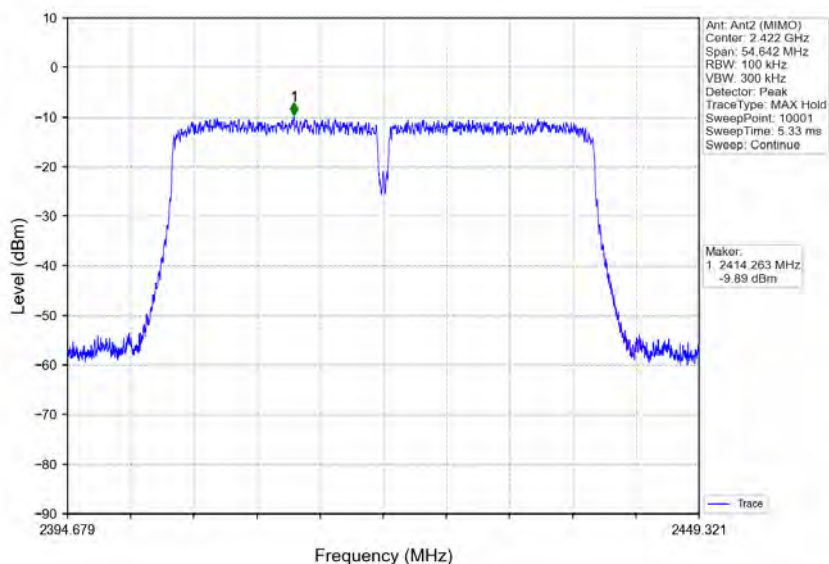
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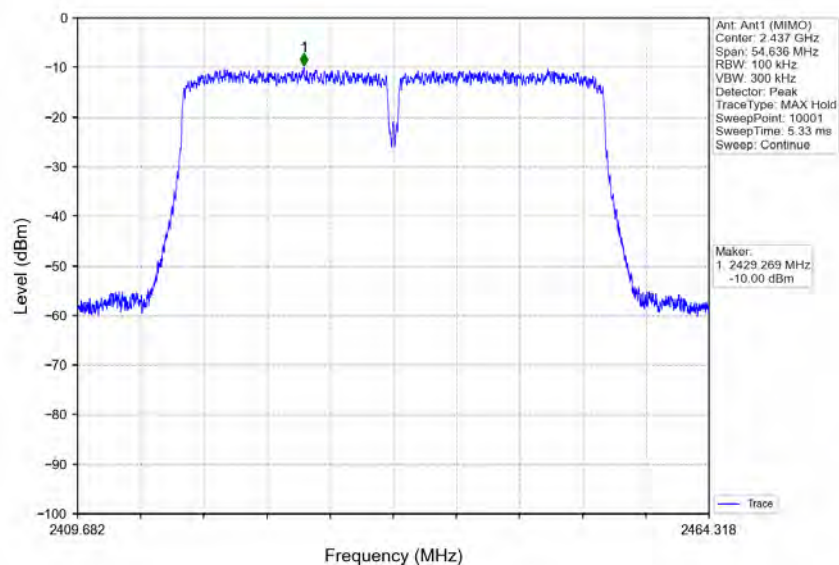
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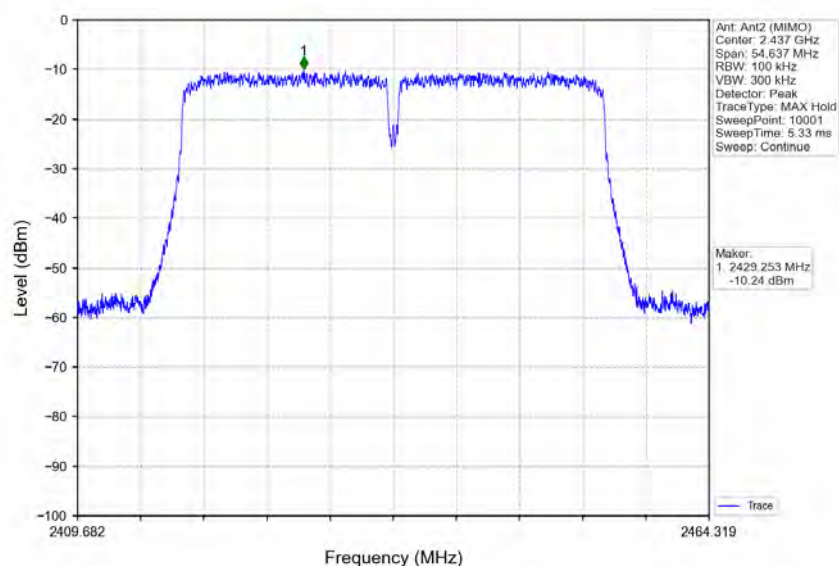
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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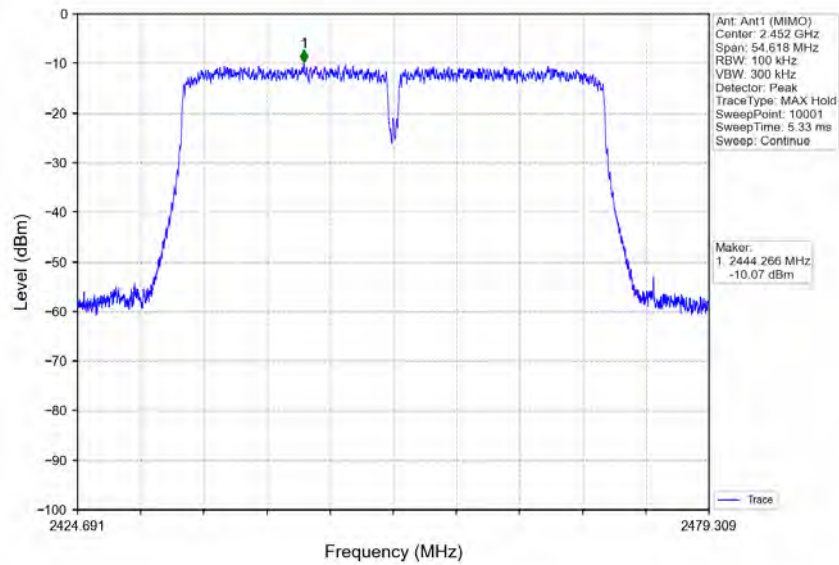
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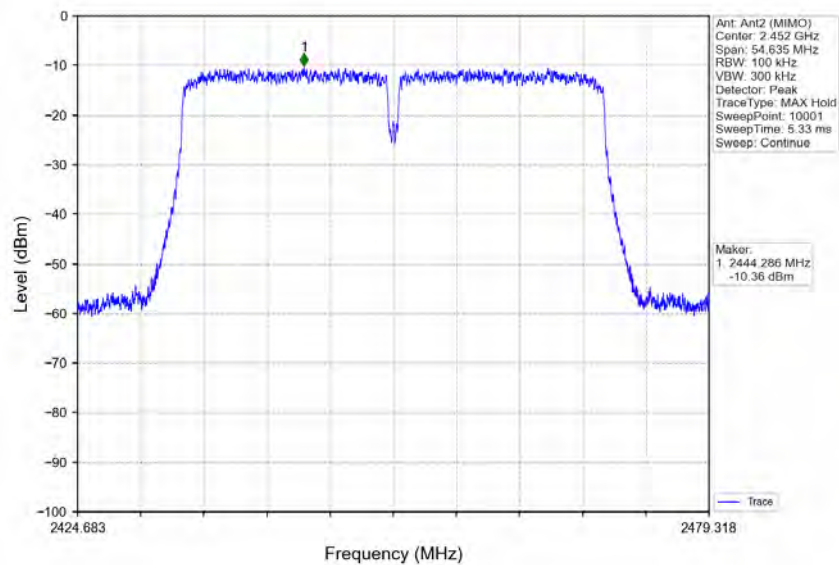
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802.11n(HT40) HCH 2452MHz_Ant1 (MIMO) NTNV



802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTNV



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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	6.70	-23.30	Pass
		2437	1	6.86	-23.14	Pass
			2	6.70	-23.30	Pass
		2462	1	6.86	-23.14	Pass
			2	6.70	-23.30	Pass
802.11g	SISO	2412	1	-1.85	-31.85	Pass
			2	-1.89	-31.89	Pass
		2437	1	-1.85	-31.85	Pass
			2	-1.89	-31.89	Pass
		2462	1	-1.85	-31.85	Pass
			2	-1.89	-31.89	Pass
802.11n (HT20)	MIMO	2412	1	-5.50	-35.50	Pass
			2	-5.61	-35.61	Pass
		2437	1	-5.50	-35.50	Pass
			2	-5.61	-35.61	Pass
		2462	1	-5.50	-35.50	Pass
			2	-5.61	-35.61	Pass
802.11n (HT40)	MIMO	2422	1	-9.88	-39.88	Pass
			2	-9.89	-39.89	Pass
		2437	1	-9.88	-39.88	Pass
			2	-9.89	-39.89	Pass
		2452	1	-9.88	-39.88	Pass
			2	-9.89	-39.89	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.



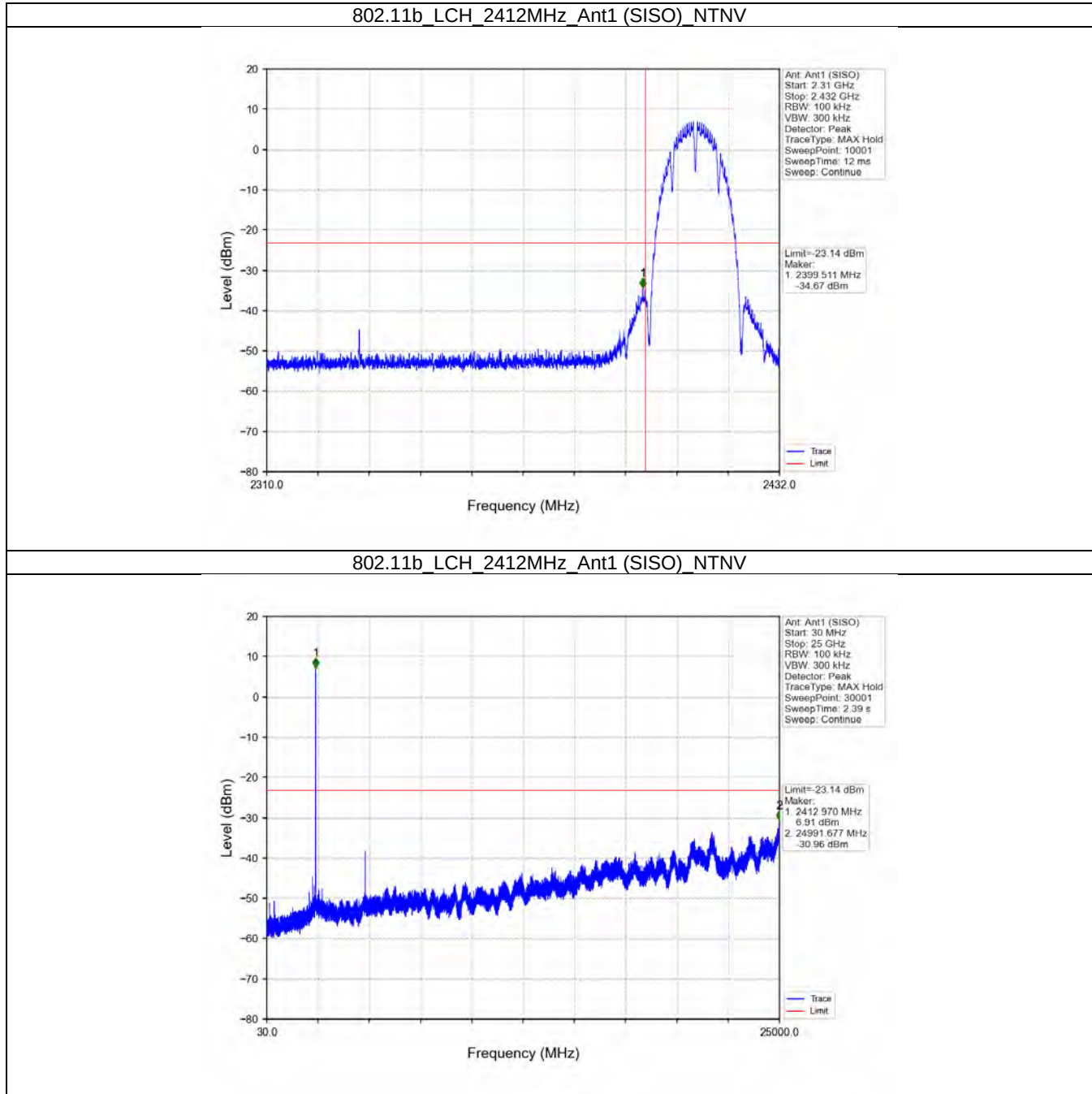
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5.2.2 Test Graph



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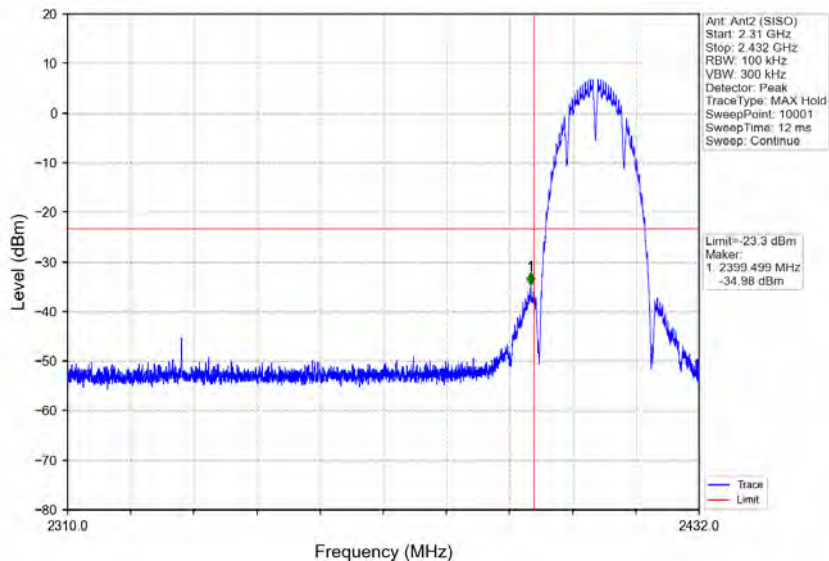
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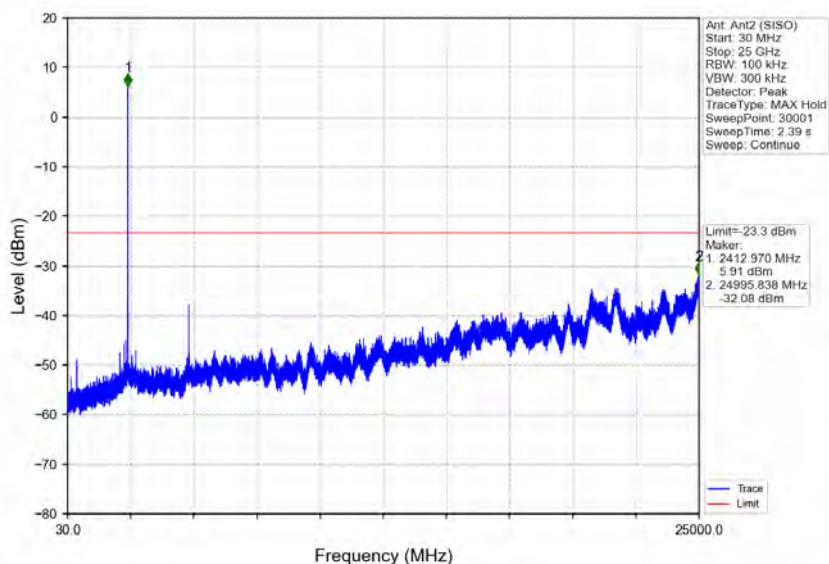


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EMC Laboratory

802.11b LCH 2412MHz_Ant2 (SISO) NTN



802.11b LCH 2412MHz_Ant2 (SISO) NTN



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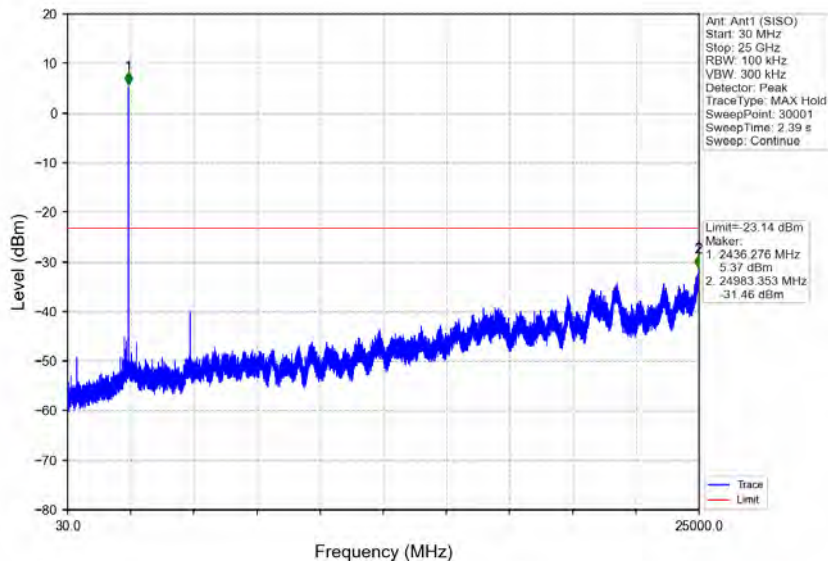
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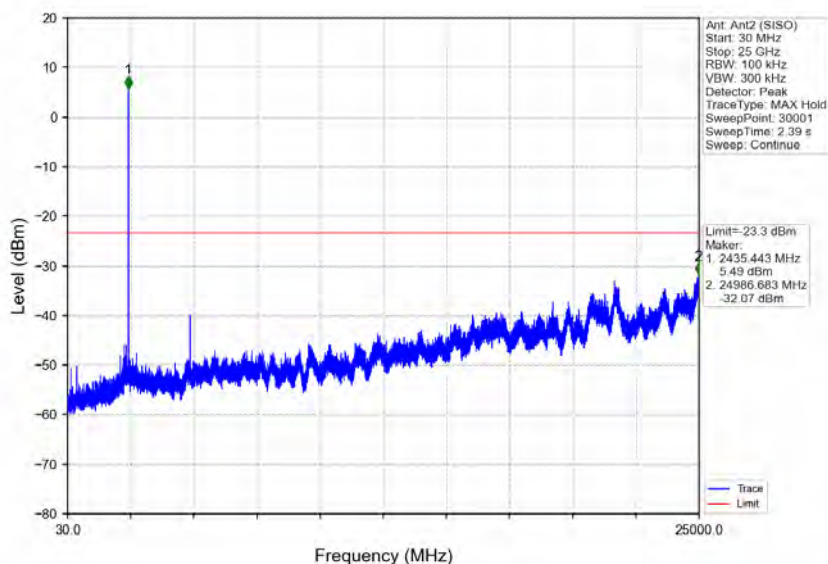
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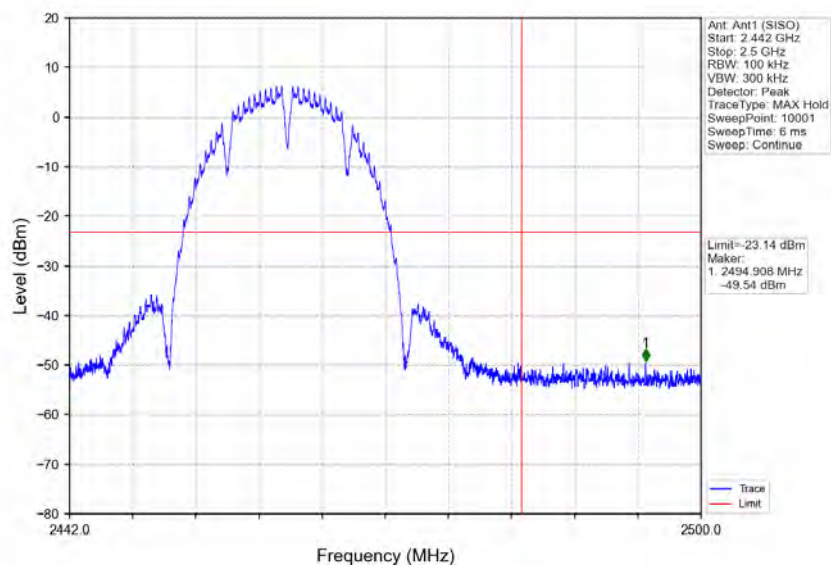
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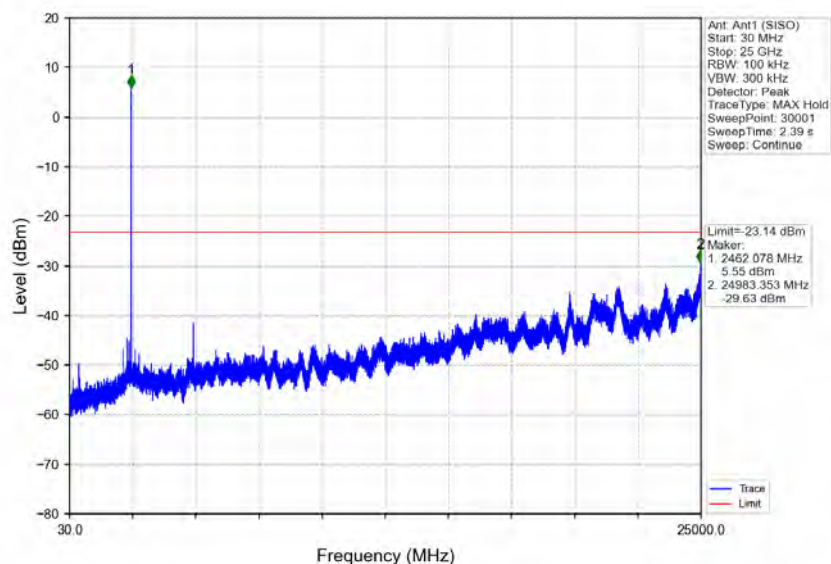
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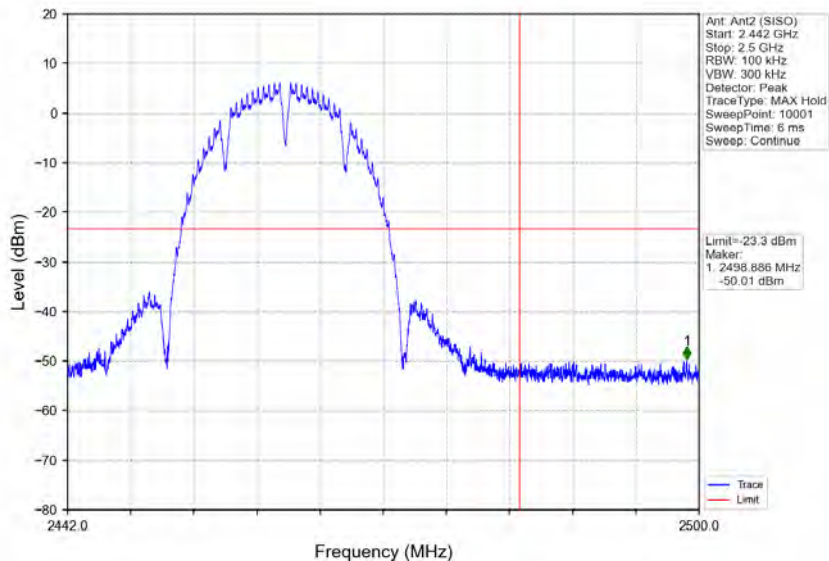
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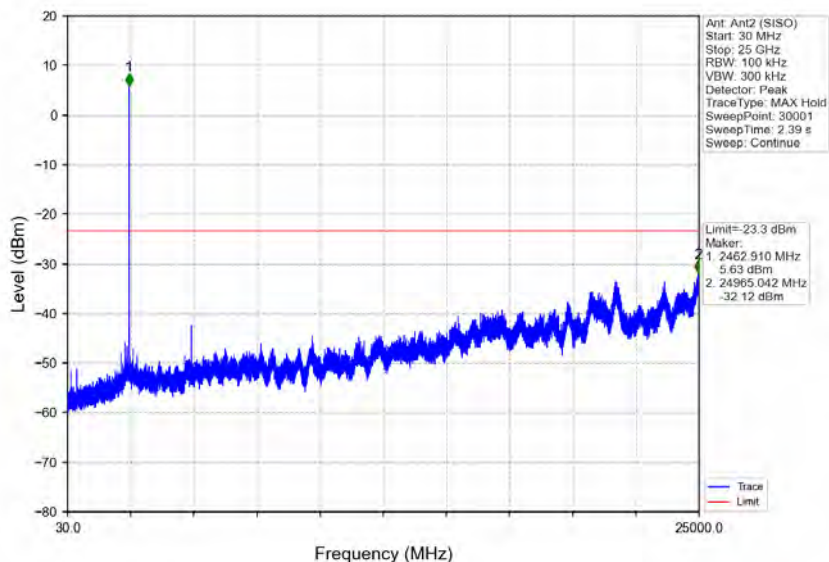
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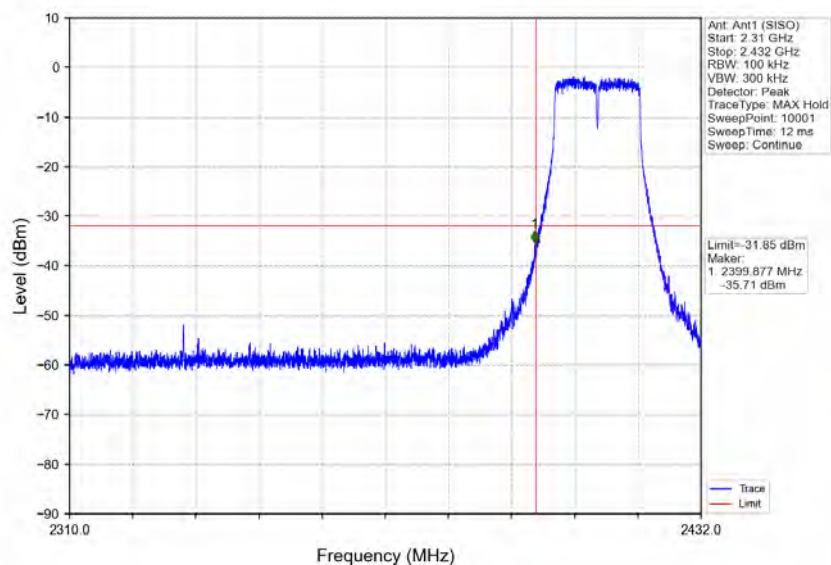
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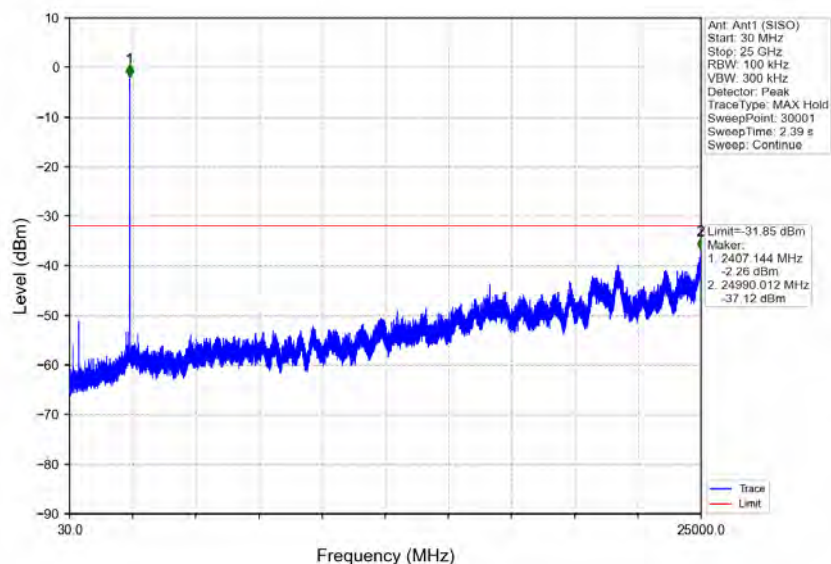
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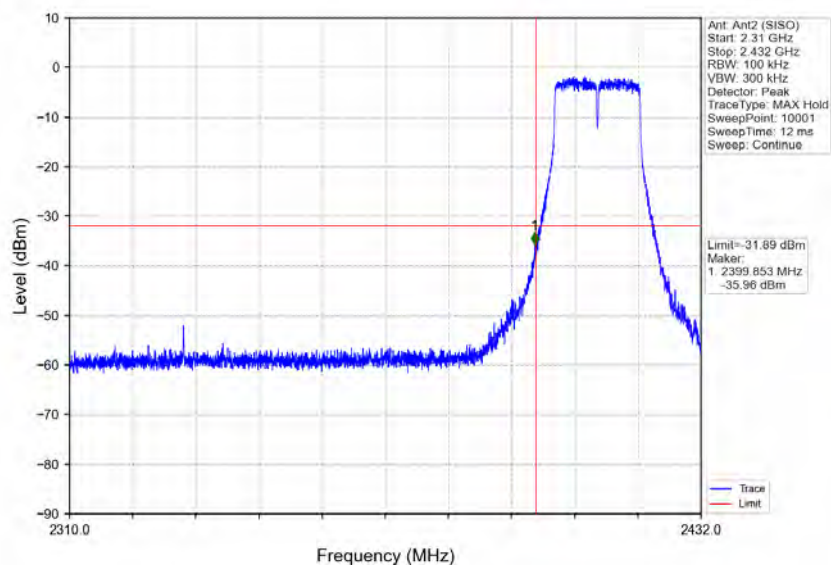
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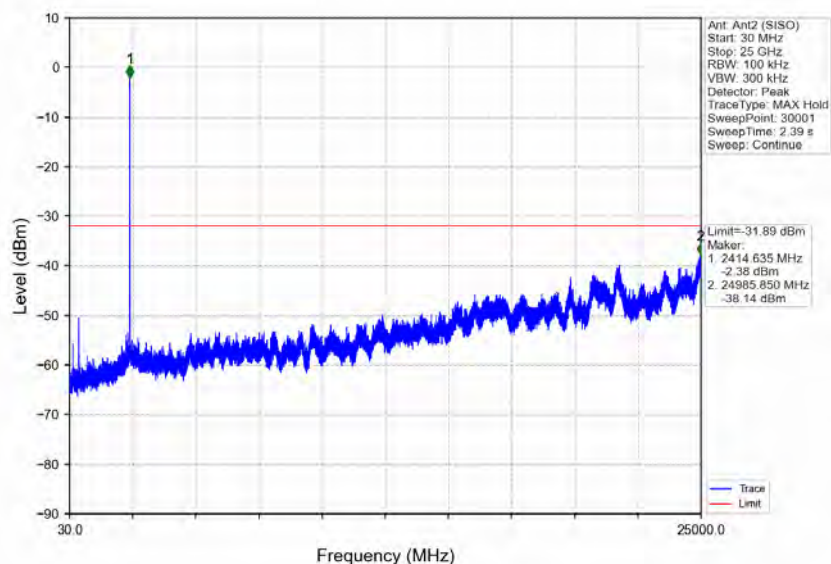
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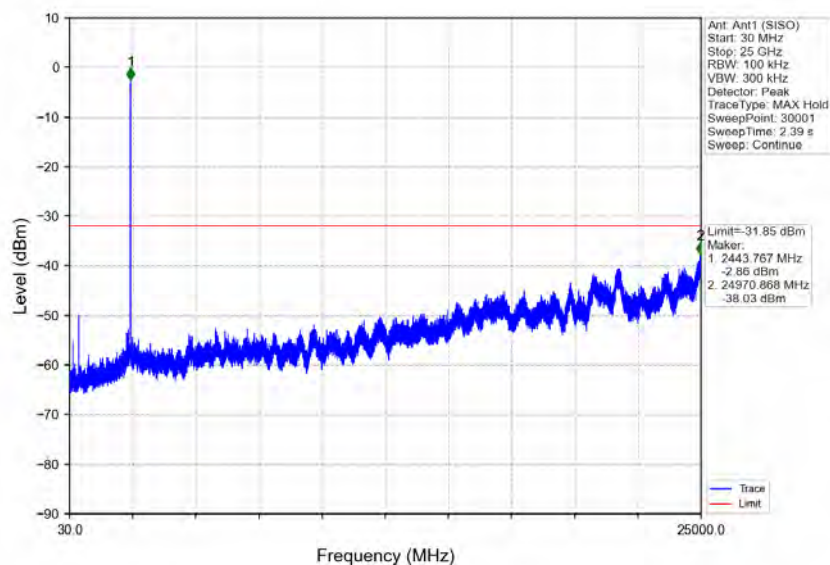
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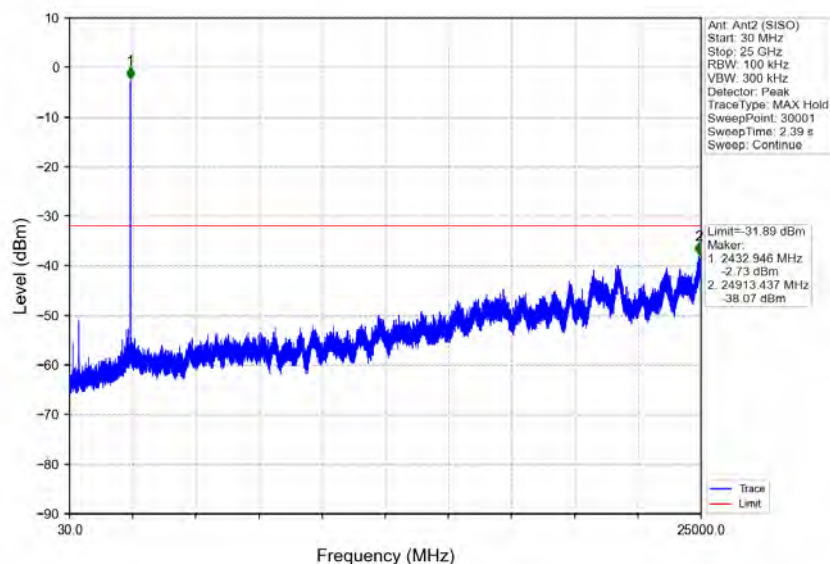
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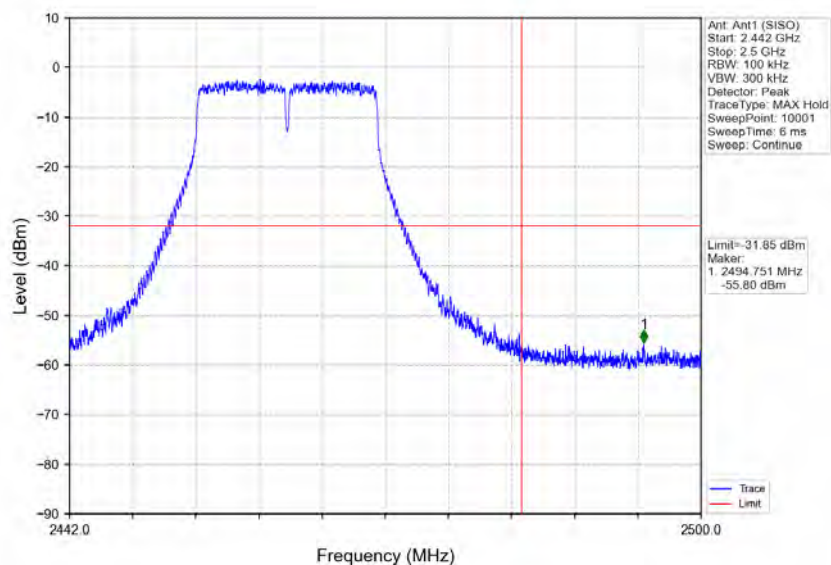
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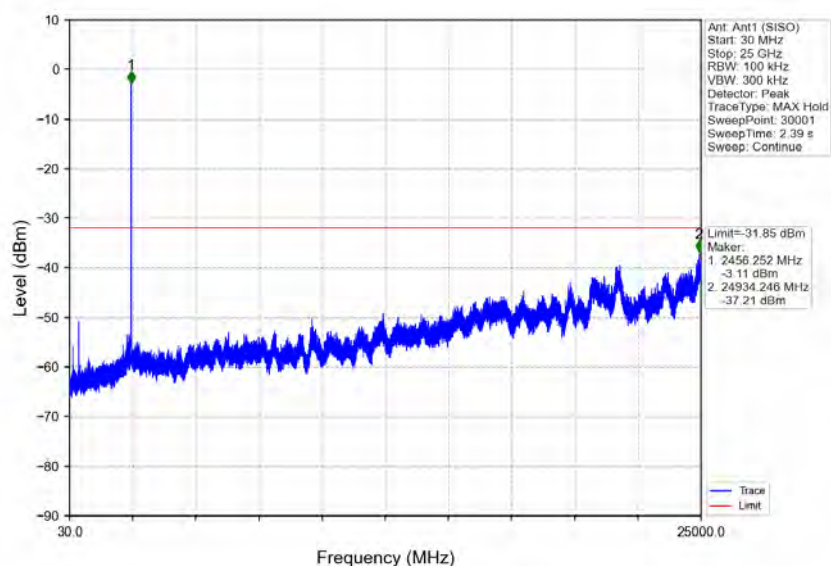
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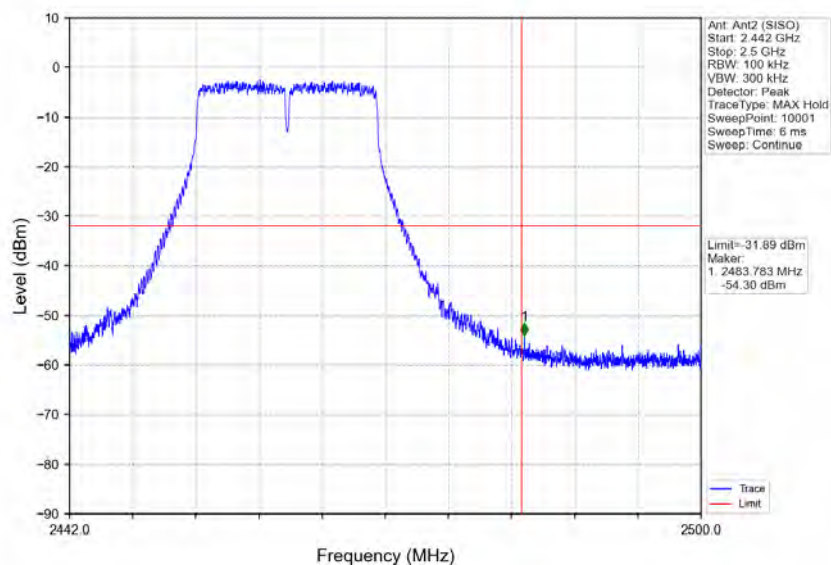
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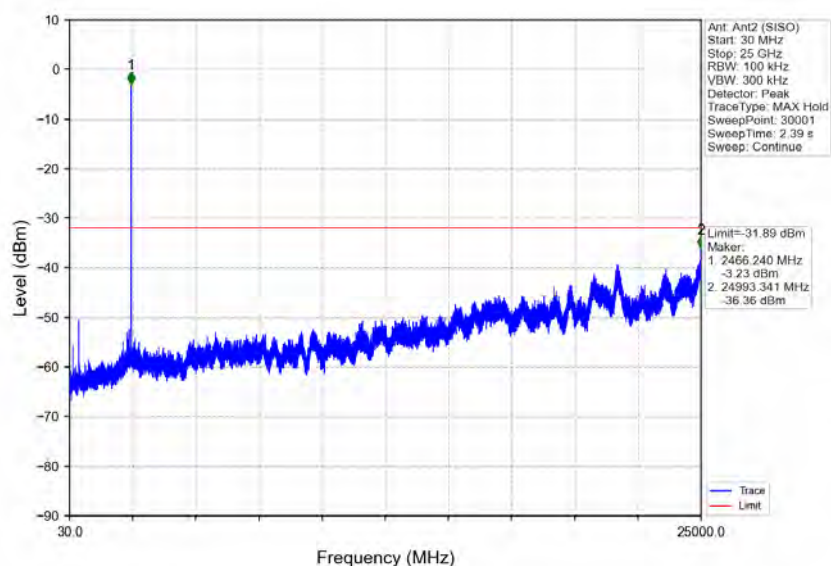
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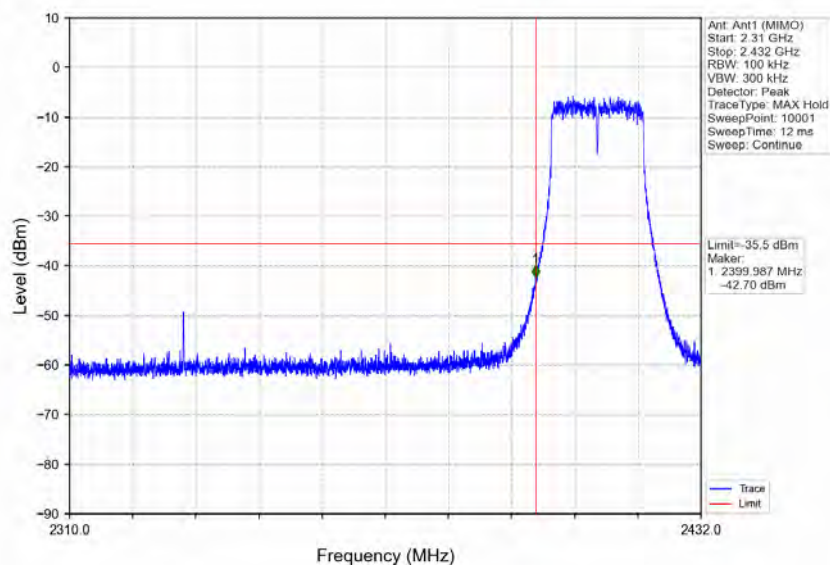
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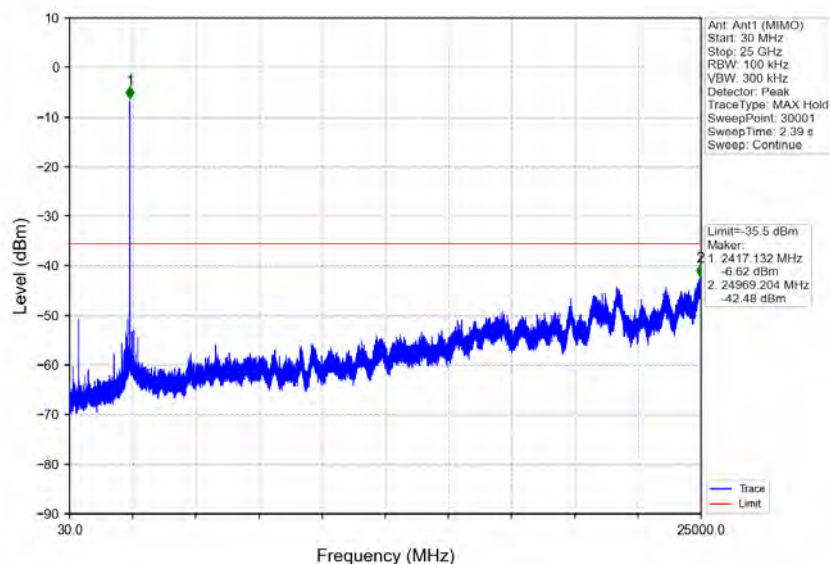
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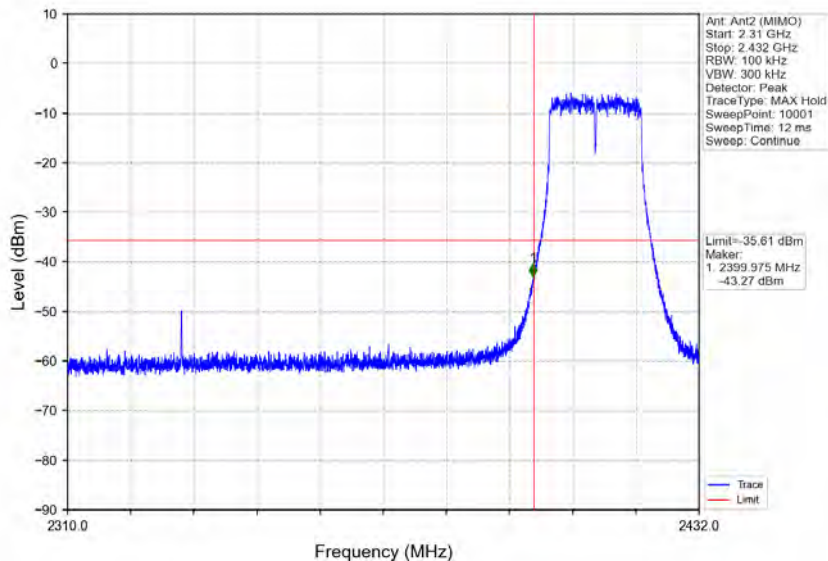
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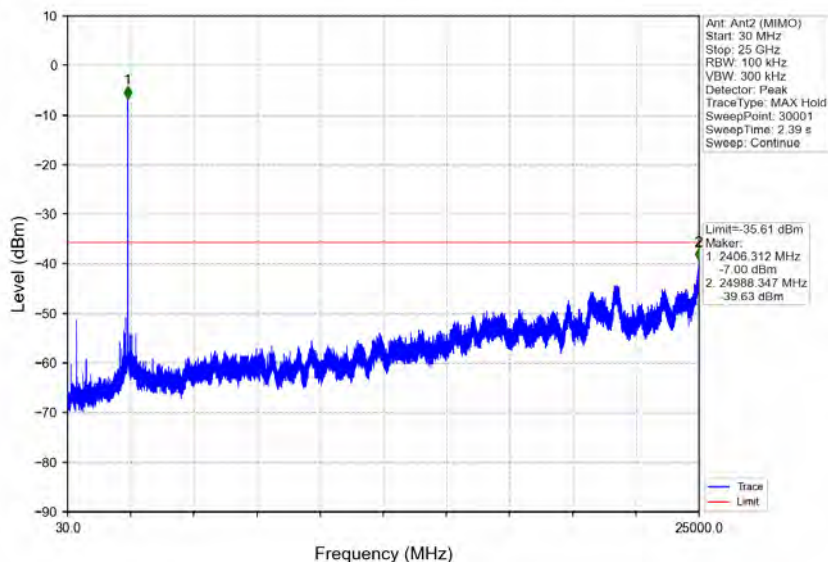
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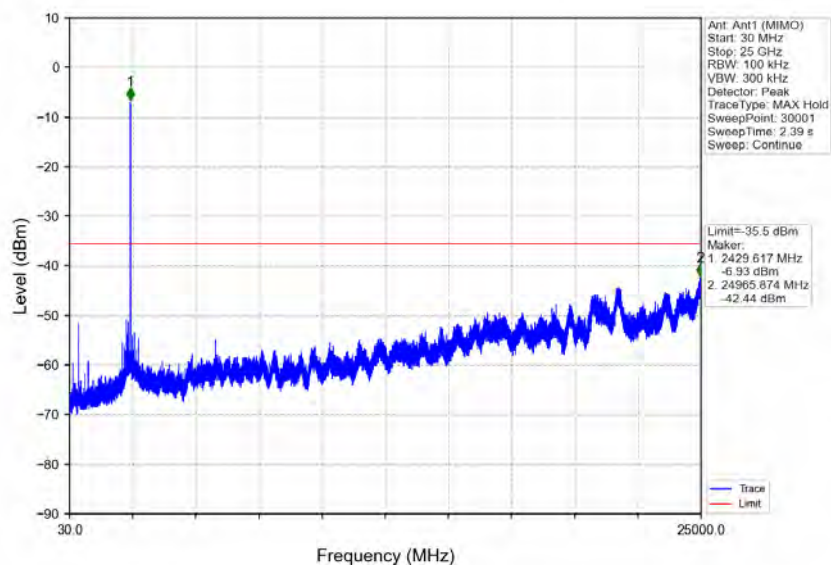
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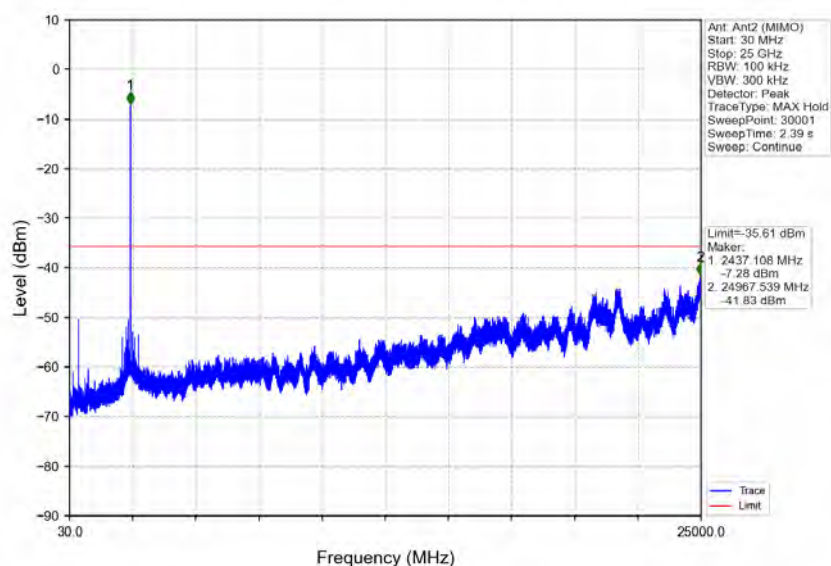
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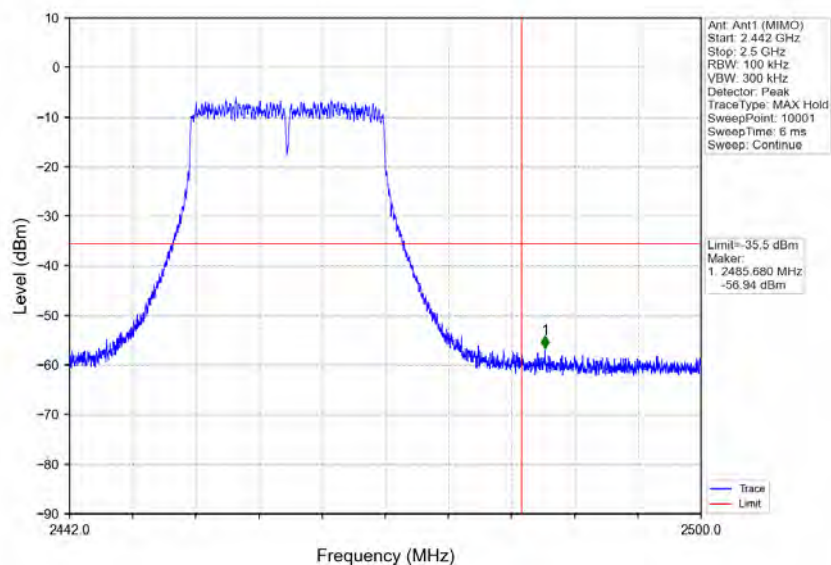
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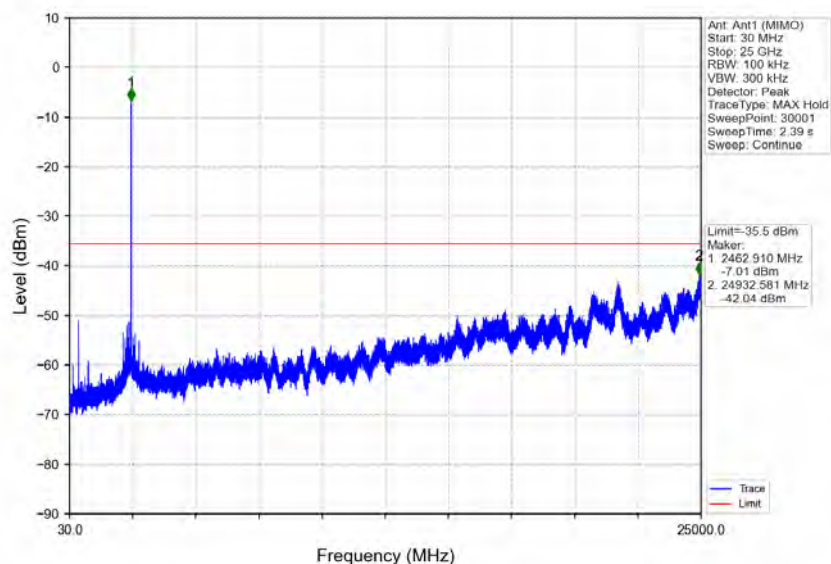
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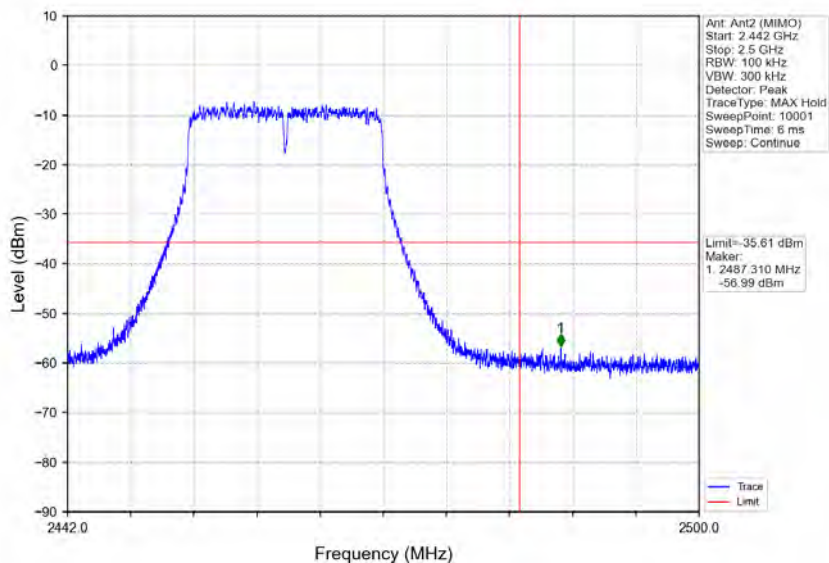
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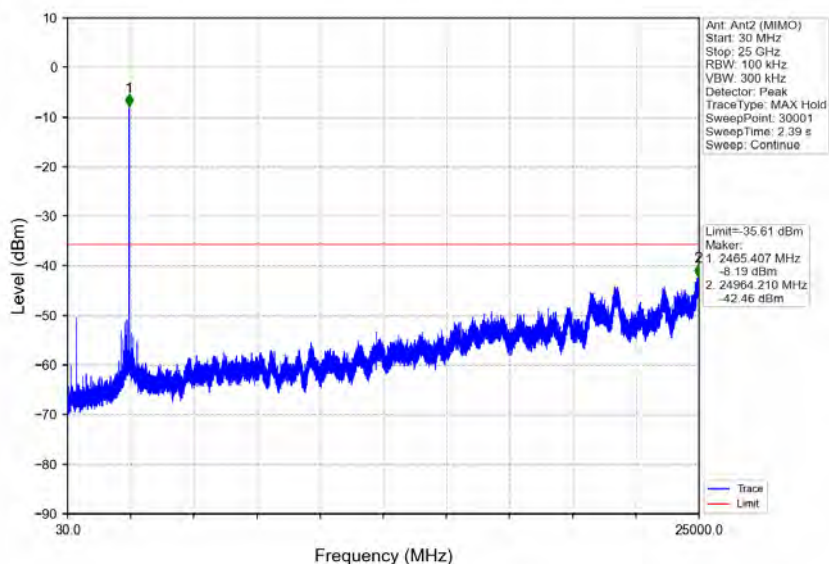
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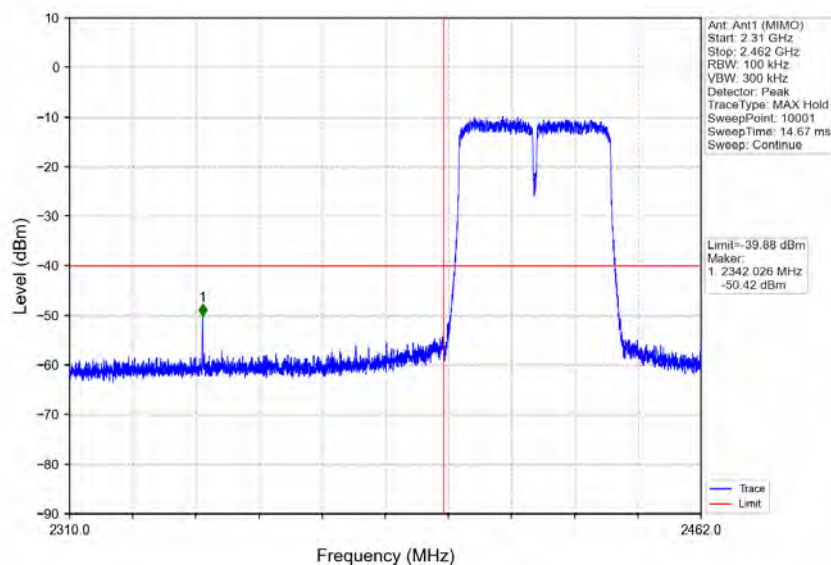
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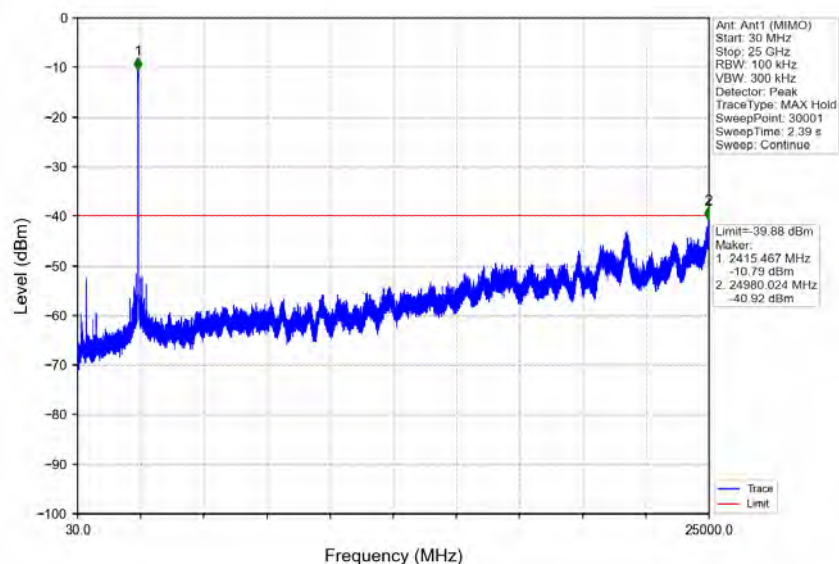
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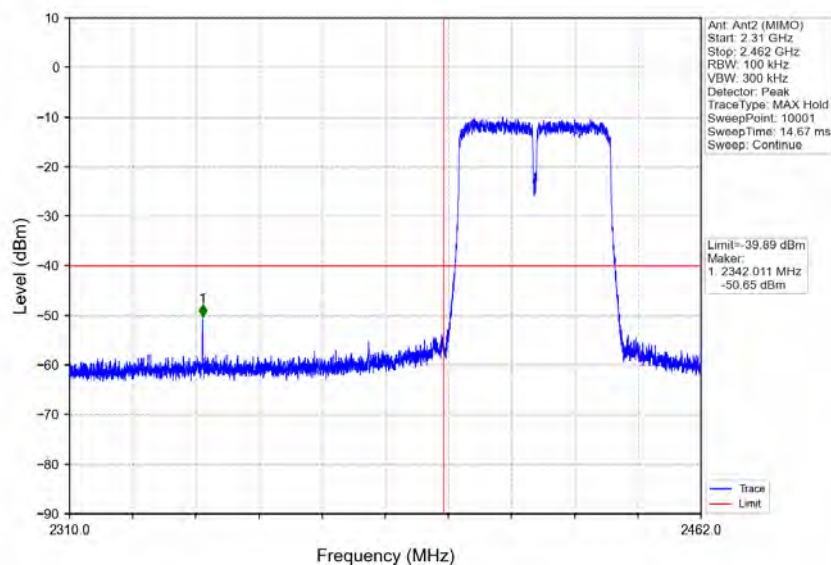
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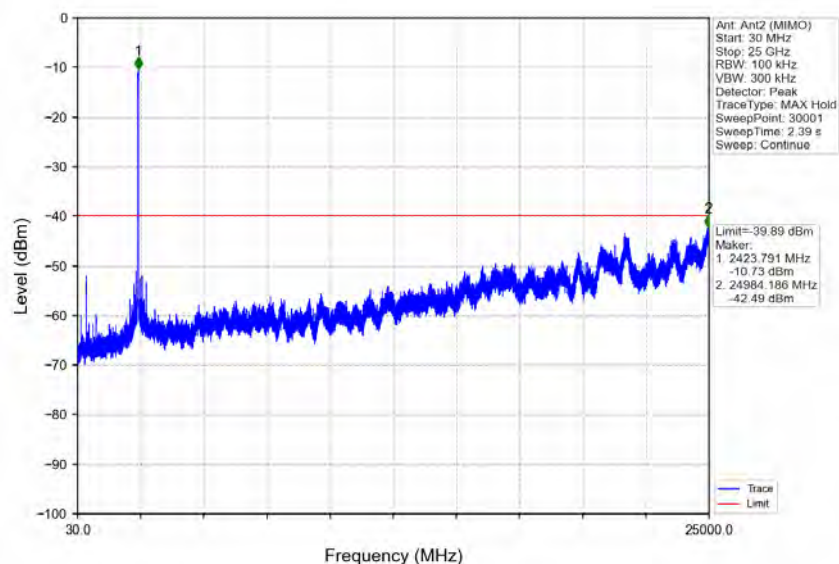
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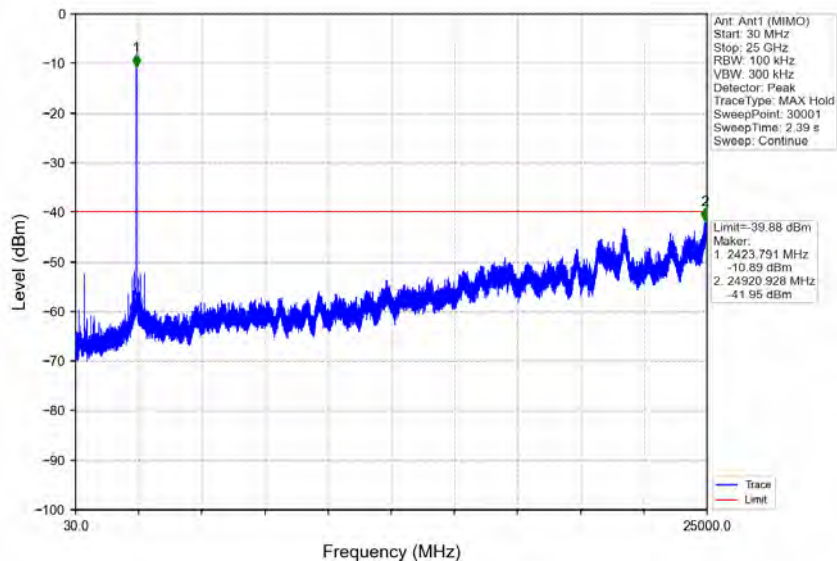
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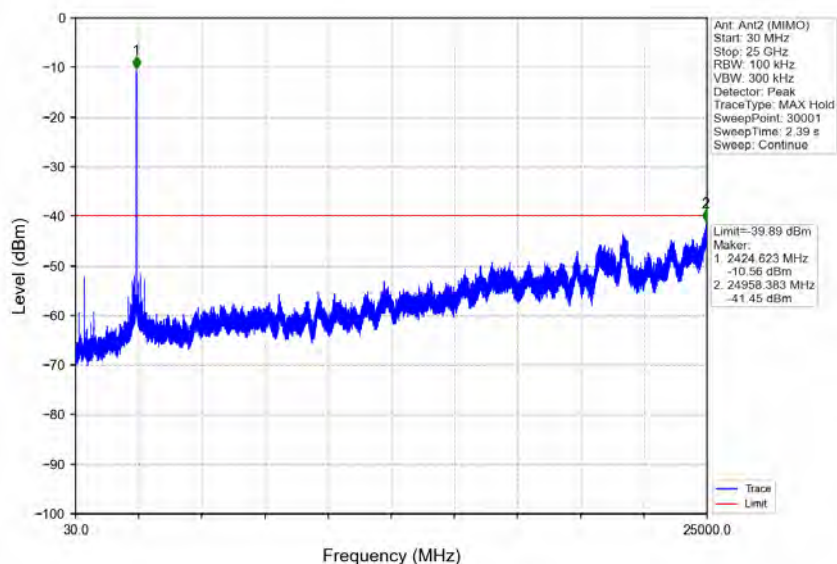
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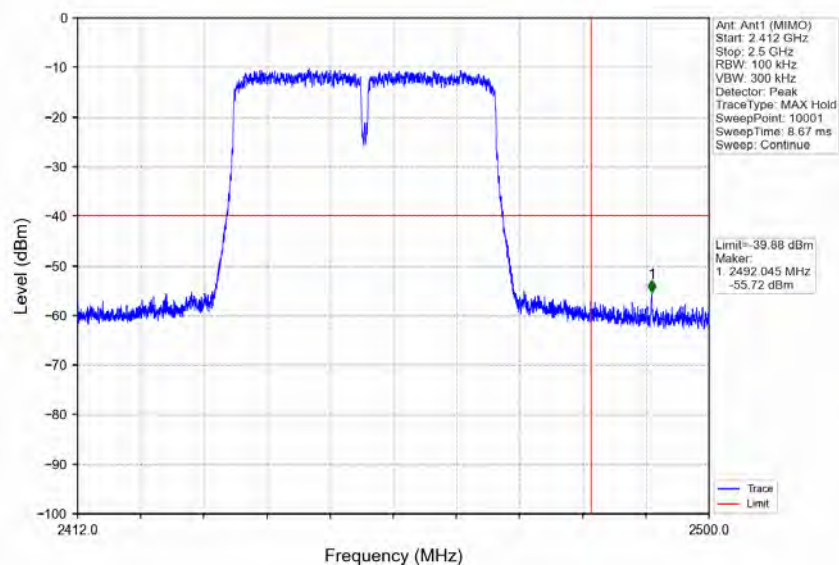
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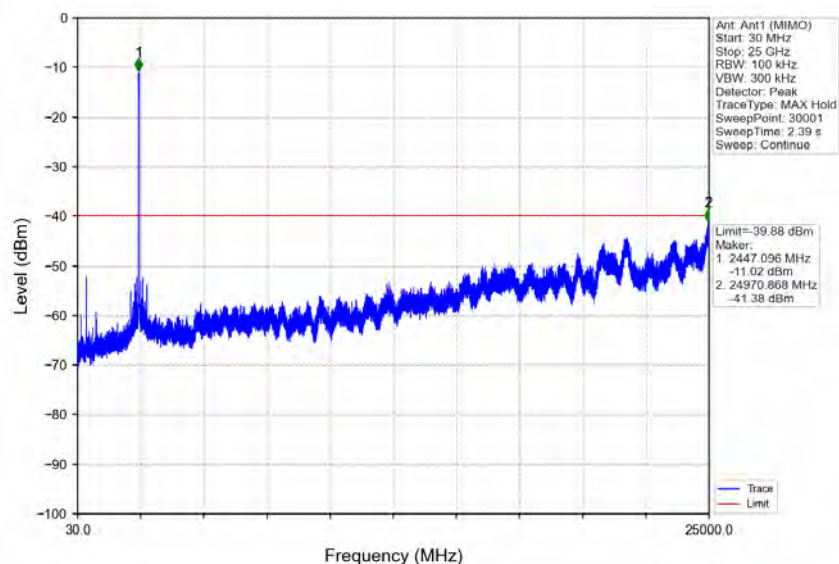
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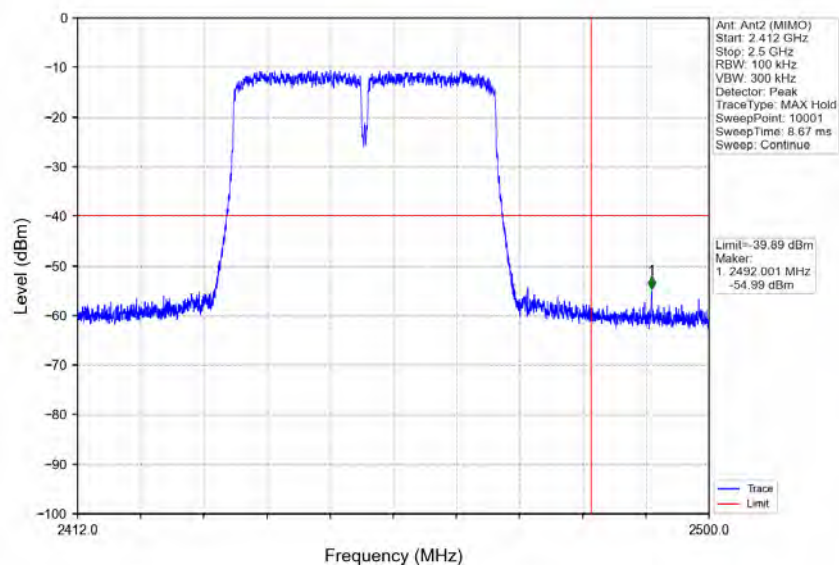
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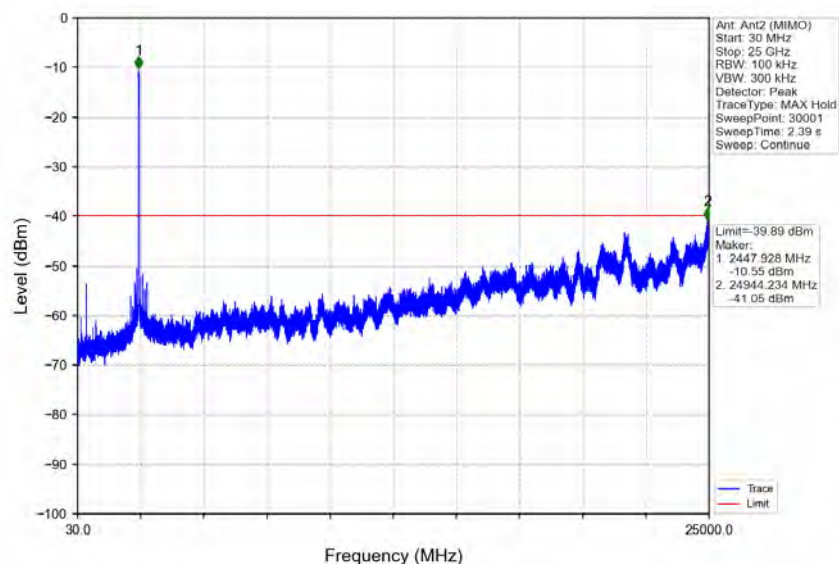
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