

Appendix A for KSCR220300038001

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	0.945	1.186	79.68	0.99	15.83
		2437	0.950	1.098	86.52	0.63	10.35
		2452	0.948	1.097	86.42	0.63	10.36



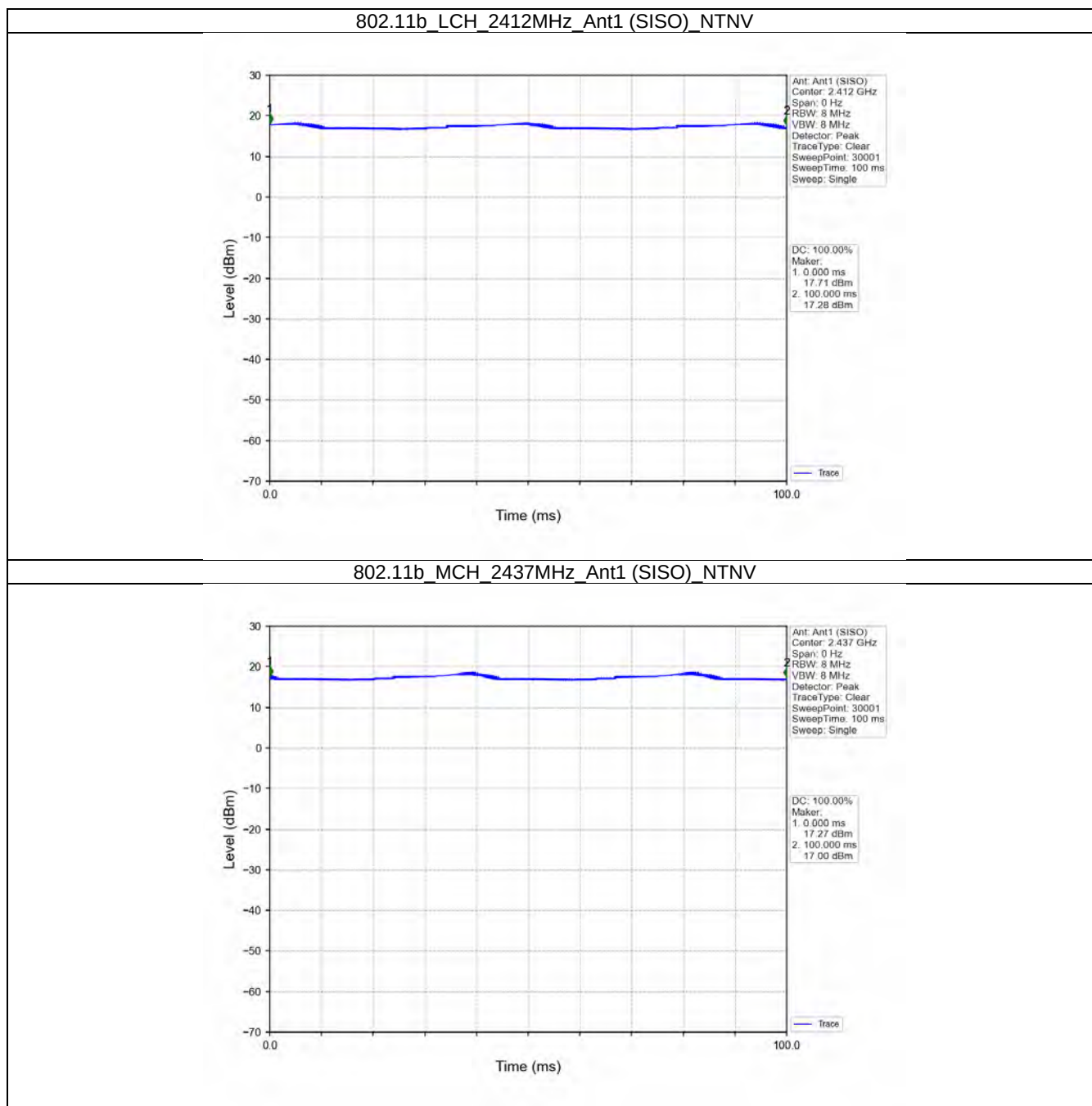
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1.1.2 Test Graph



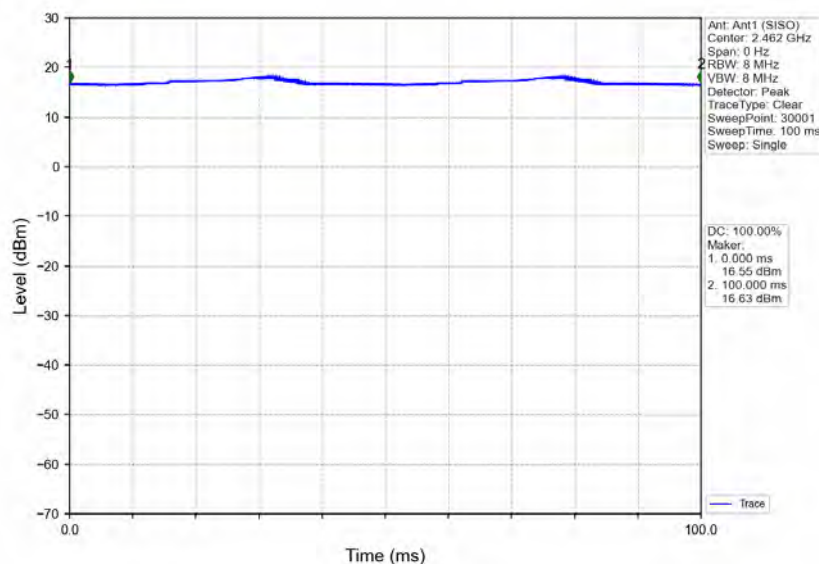
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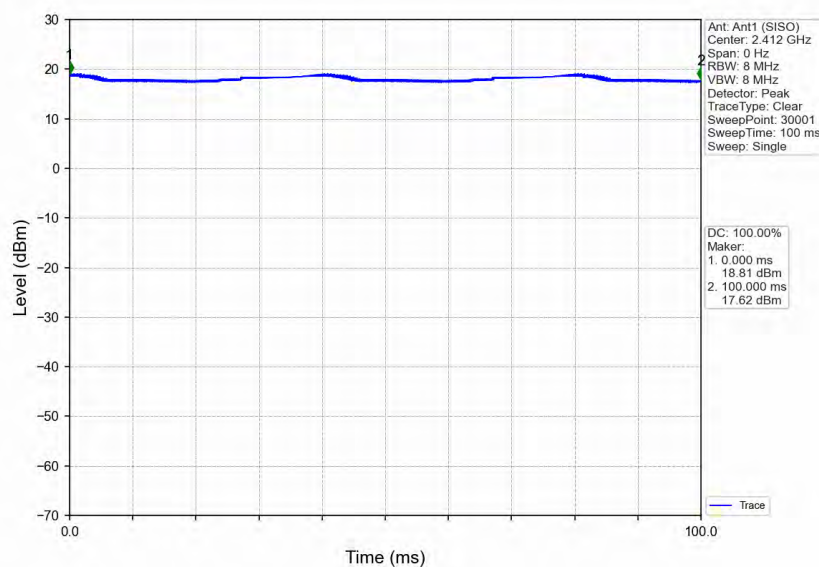
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



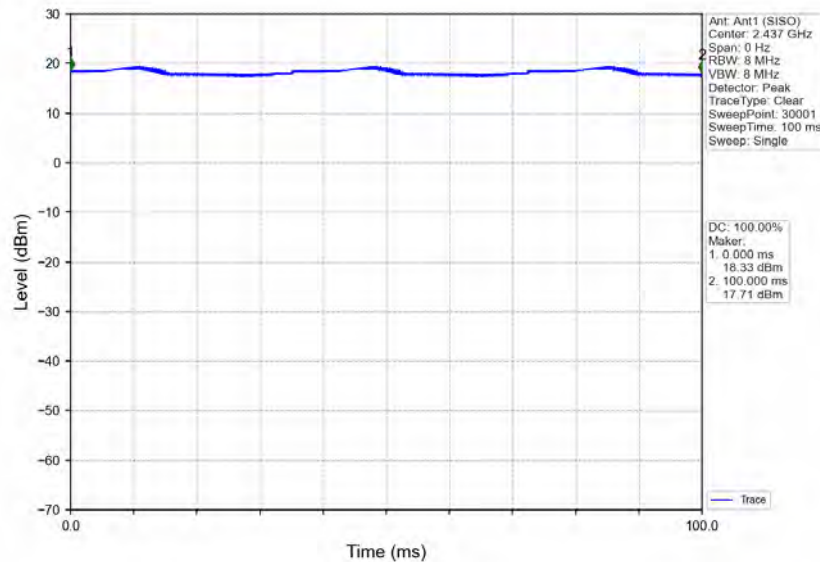
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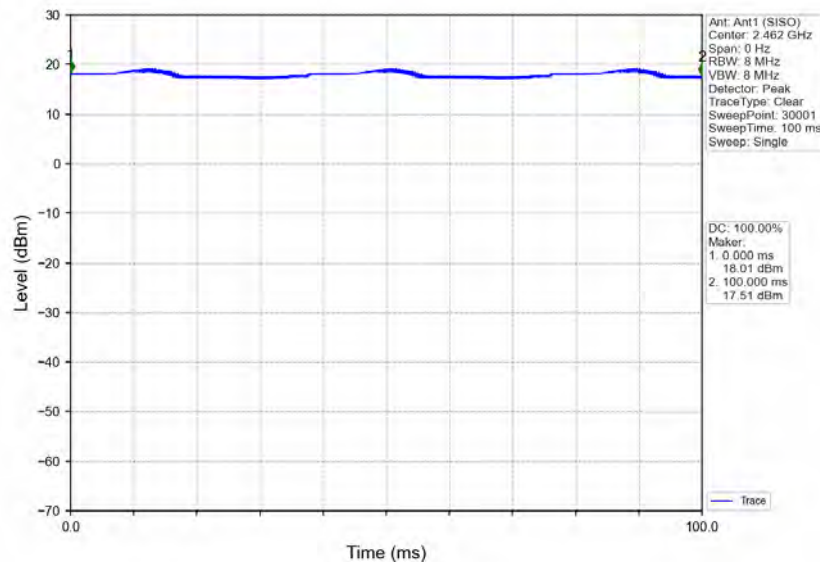
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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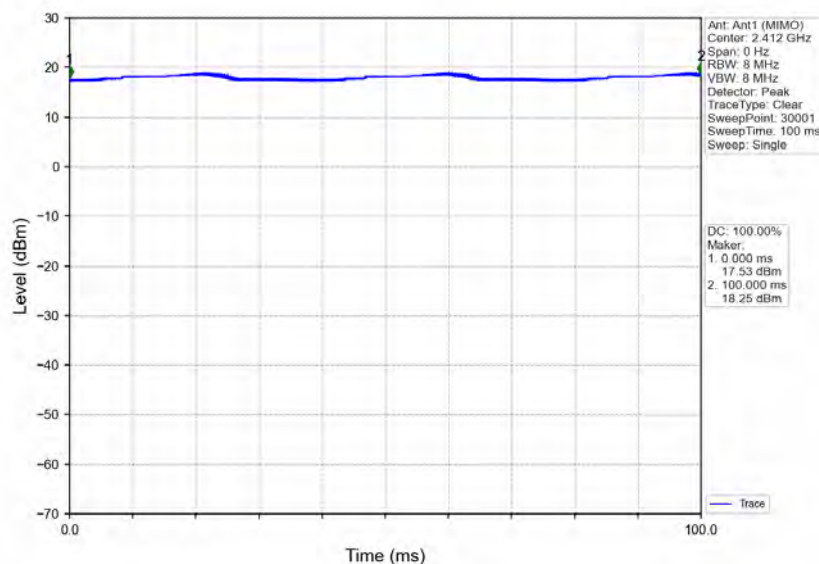
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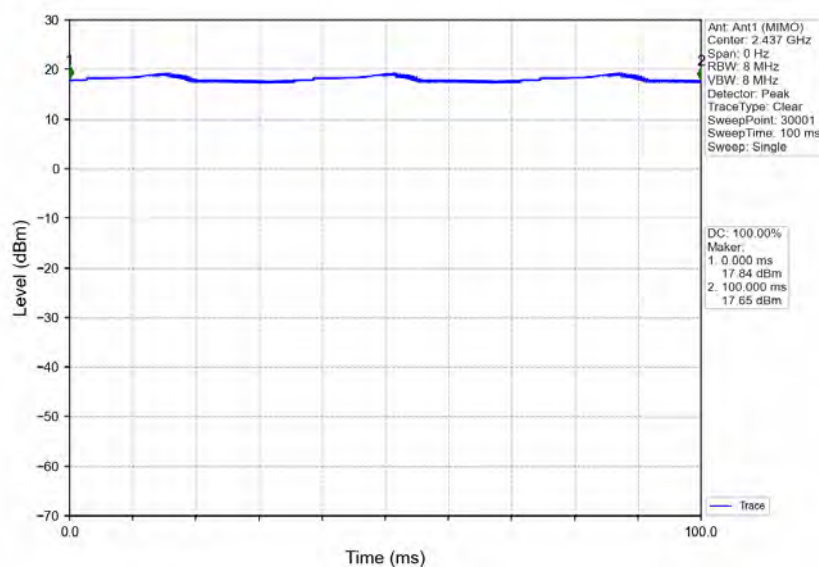
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



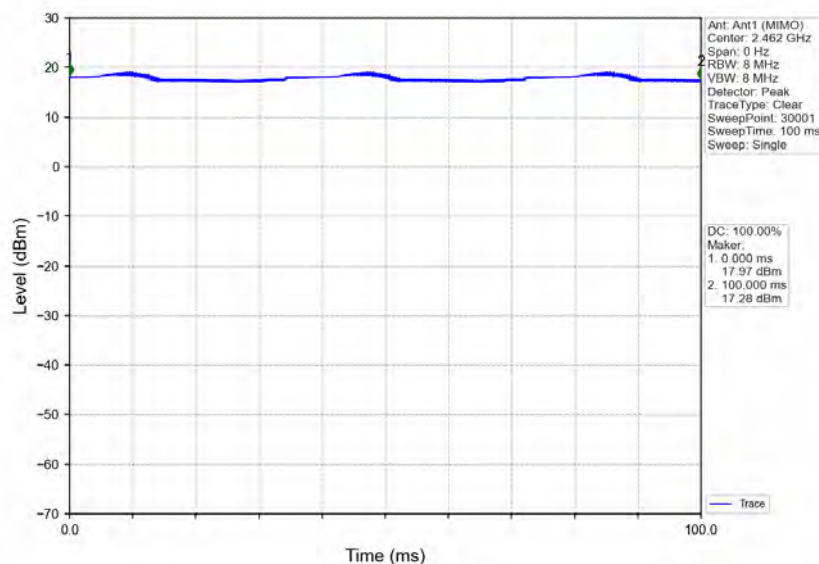
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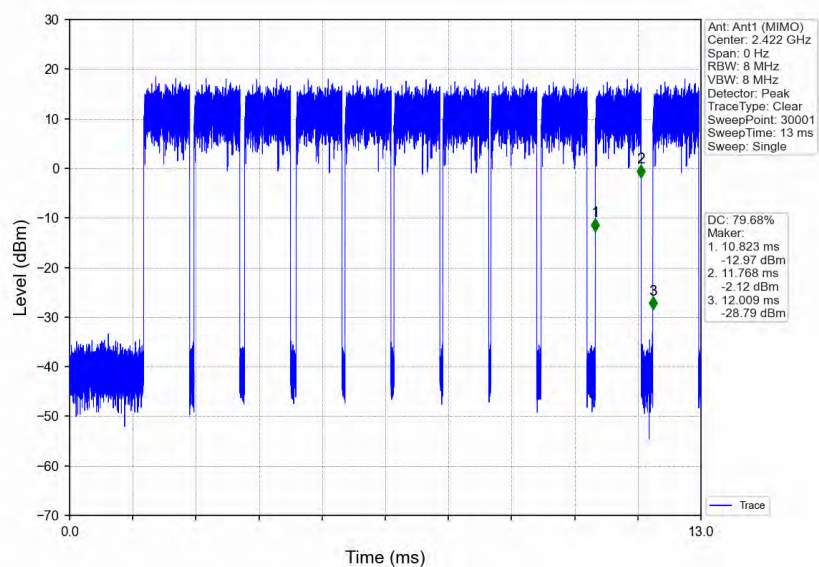
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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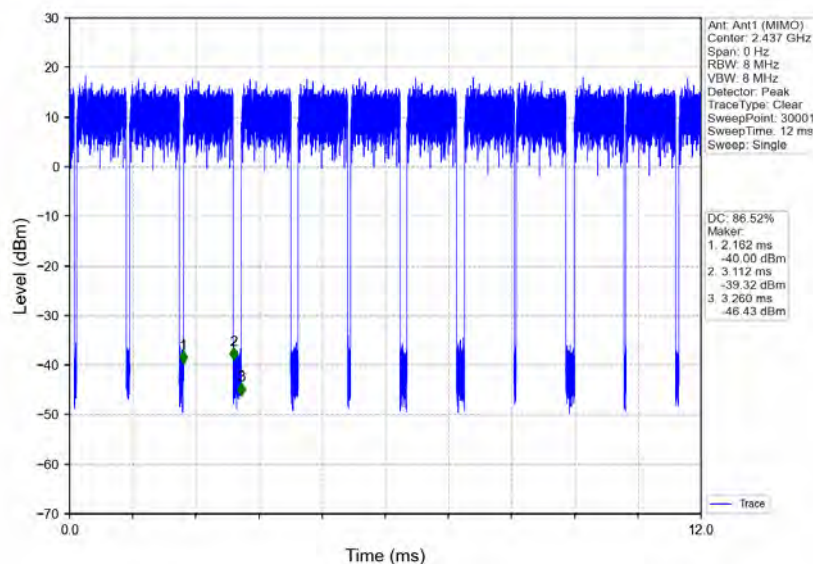
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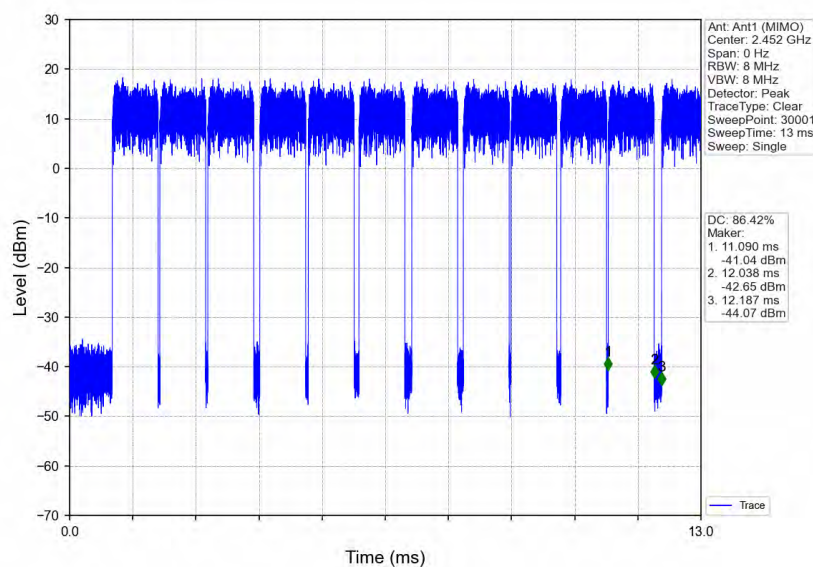
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	14.917	Pass
			2	15.055	Pass
		2437	1	14.977	Pass
			2	15.078	Pass
		2462	1	15.040	Pass
			2	15.074	Pass
802.11g	SISO	2412	1	14.929	Pass
			2	15.074	Pass
		2437	1	14.989	Pass
			2	15.077	Pass
		2462	1	15.057	Pass
			2	15.076	Pass
802.11n (HT20)	MIMO	2412	1	14.930	Pass
			2	15.069	Pass
		2437	1	14.991	Pass
			2	15.080	Pass
		2462	1	15.059	Pass
			2	15.075	Pass
802.11n (HT40)	MIMO	2422	1	36.555	Pass
			2	36.430	Pass
		2437	1	36.468	Pass
			2	36.638	Pass
		2452	1	36.519	Pass
			2	36.590	Pass



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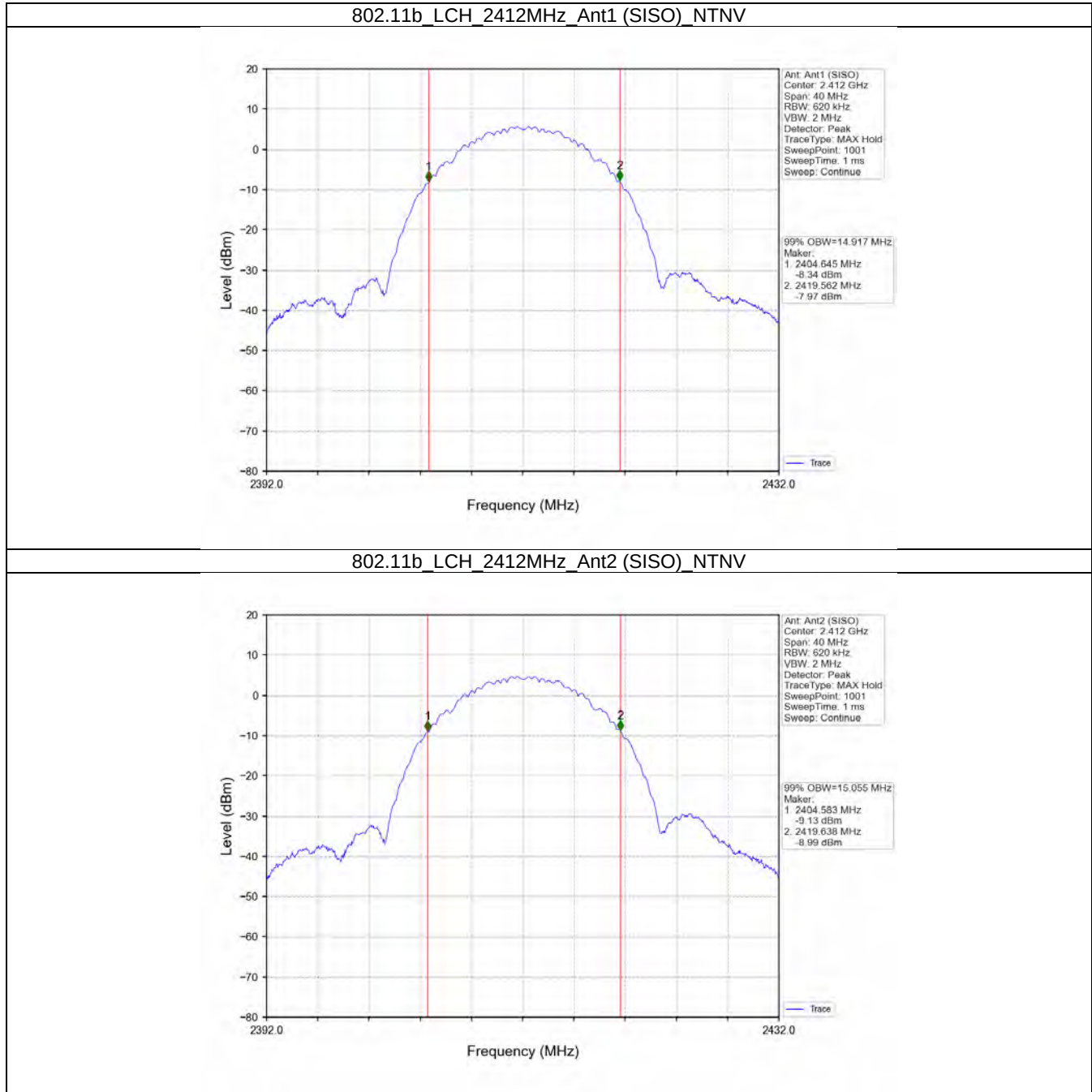
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2.1.2 Test Graph



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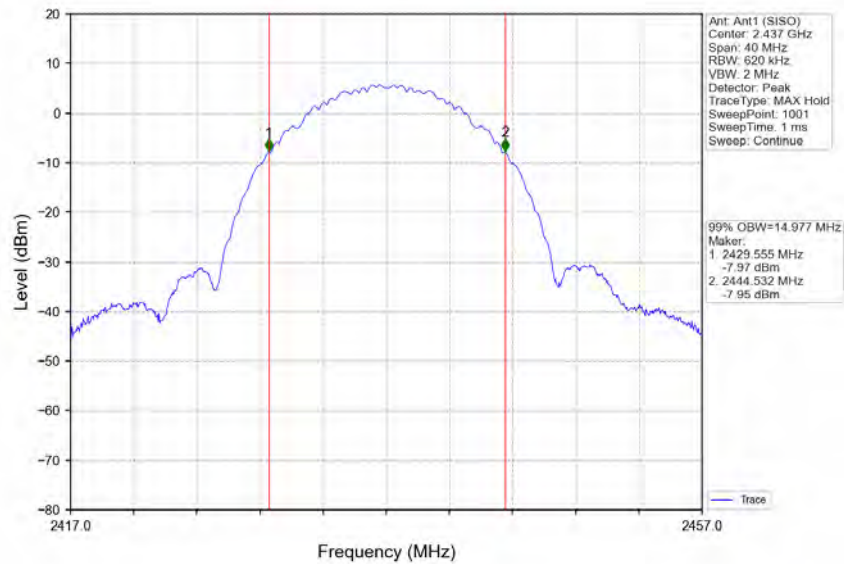
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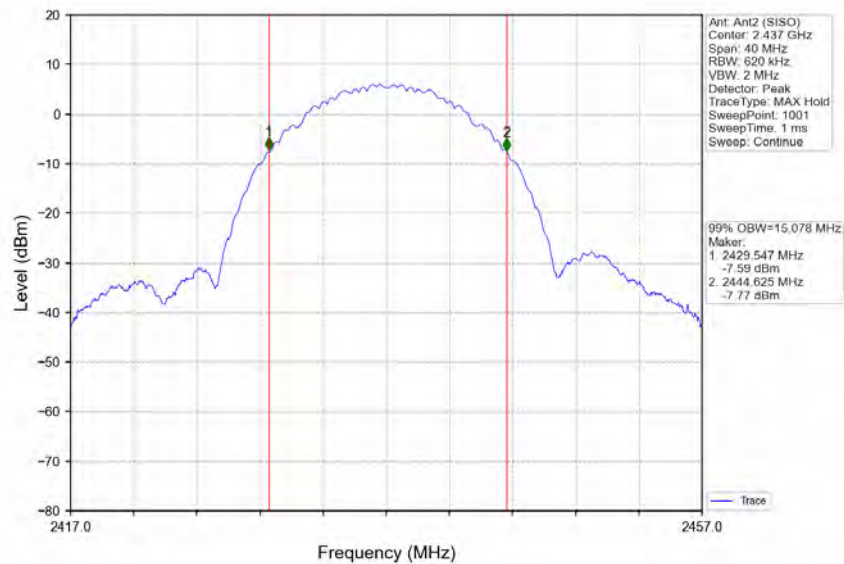
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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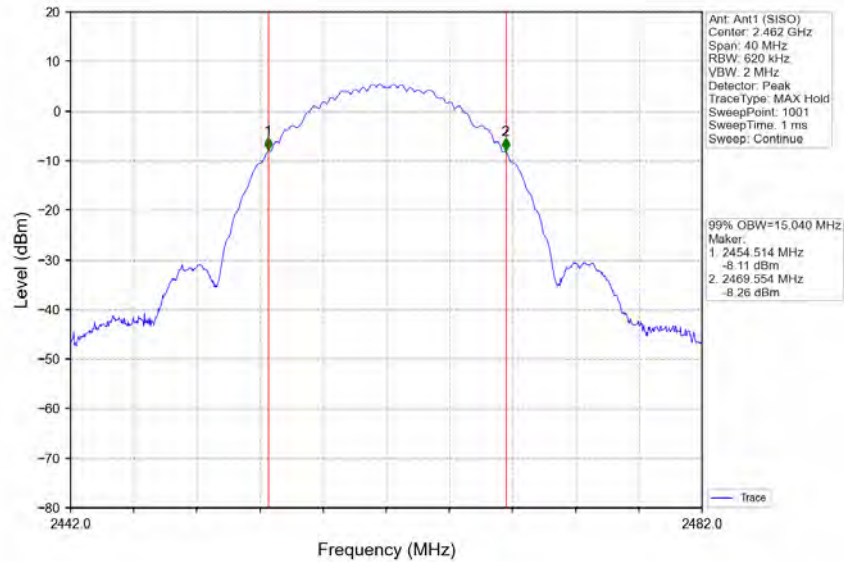
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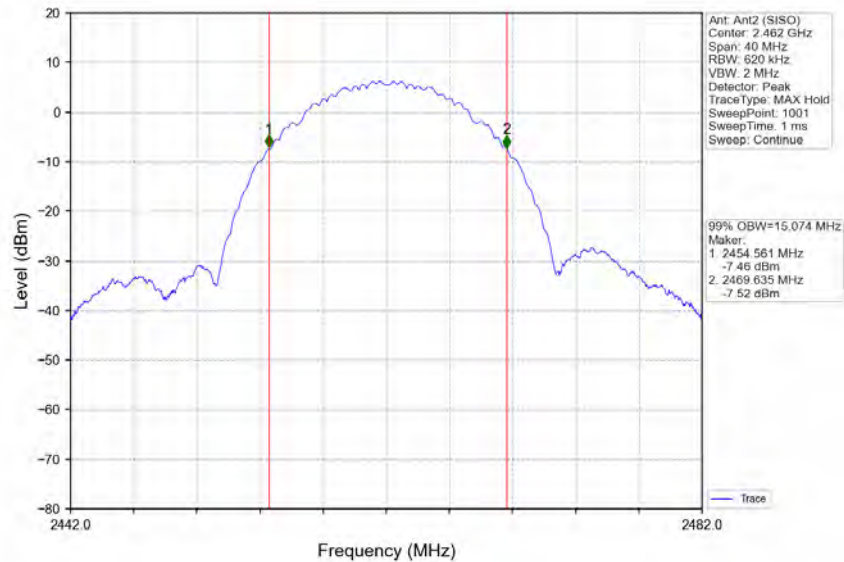
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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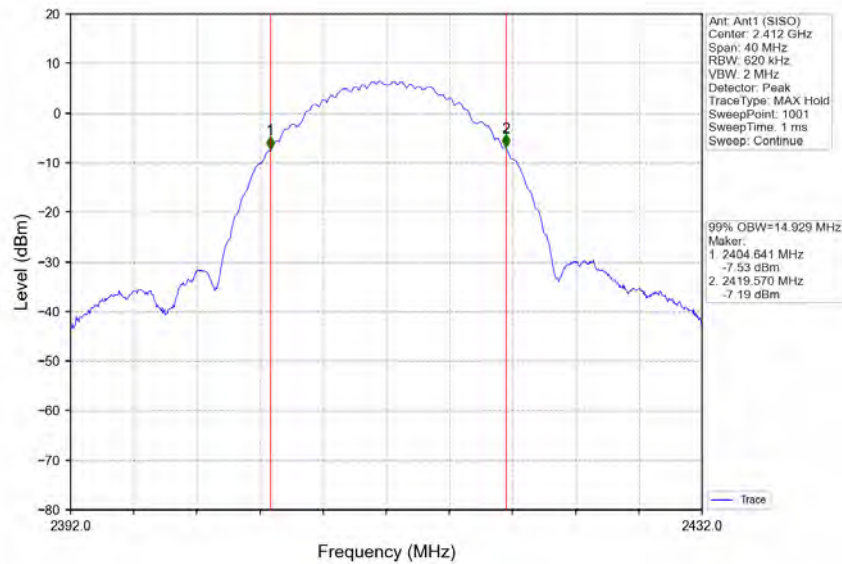
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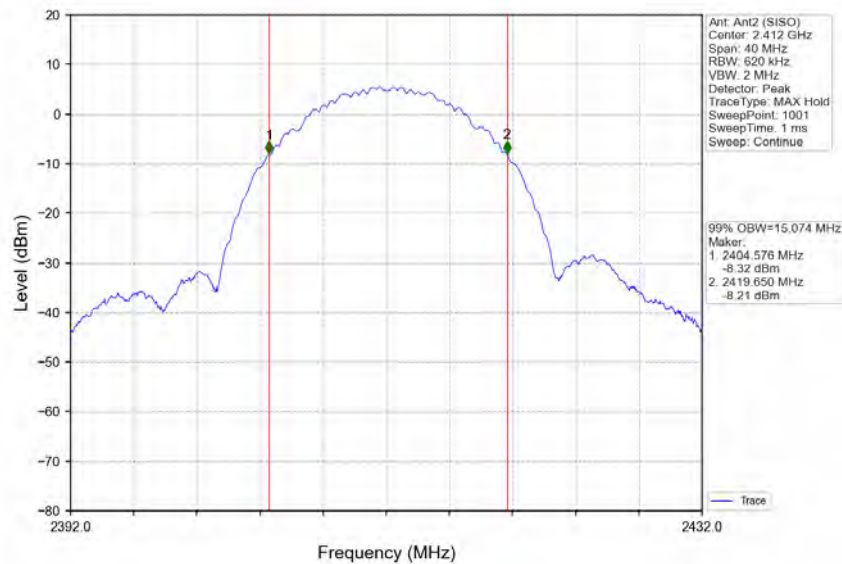
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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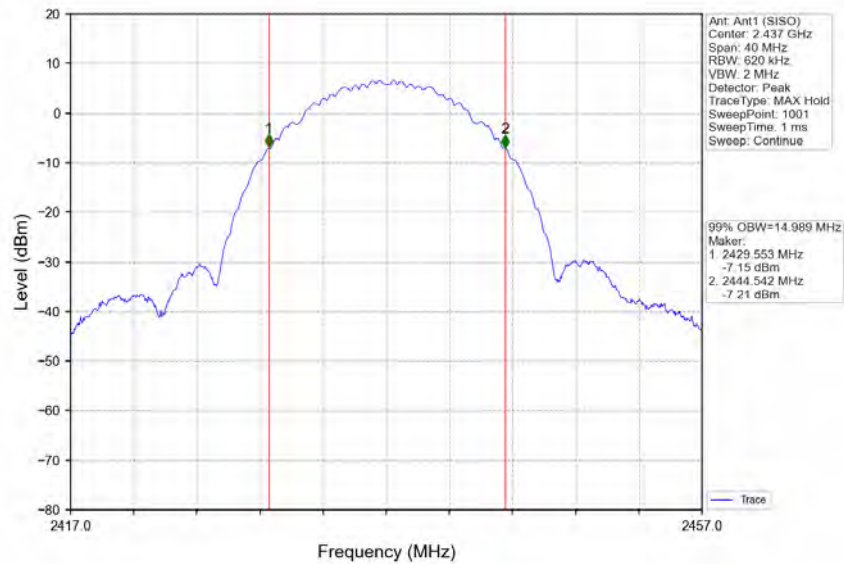
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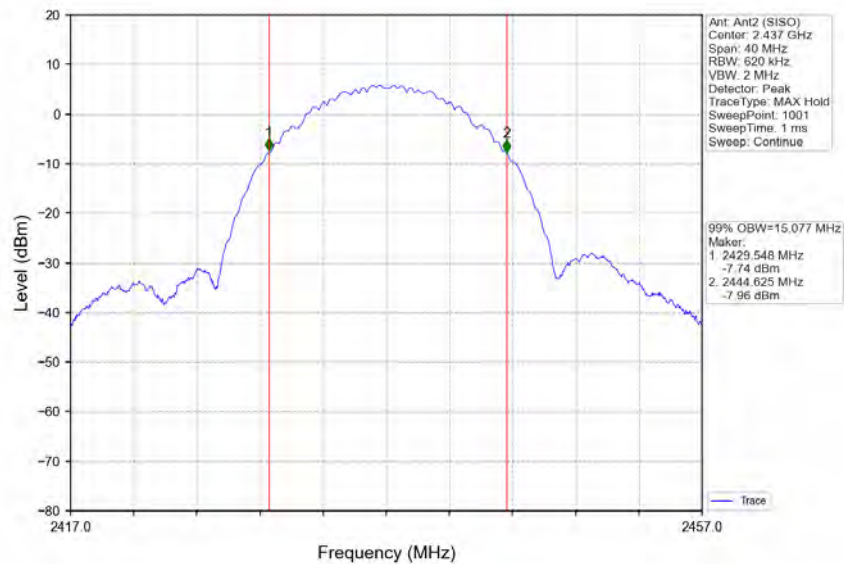
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802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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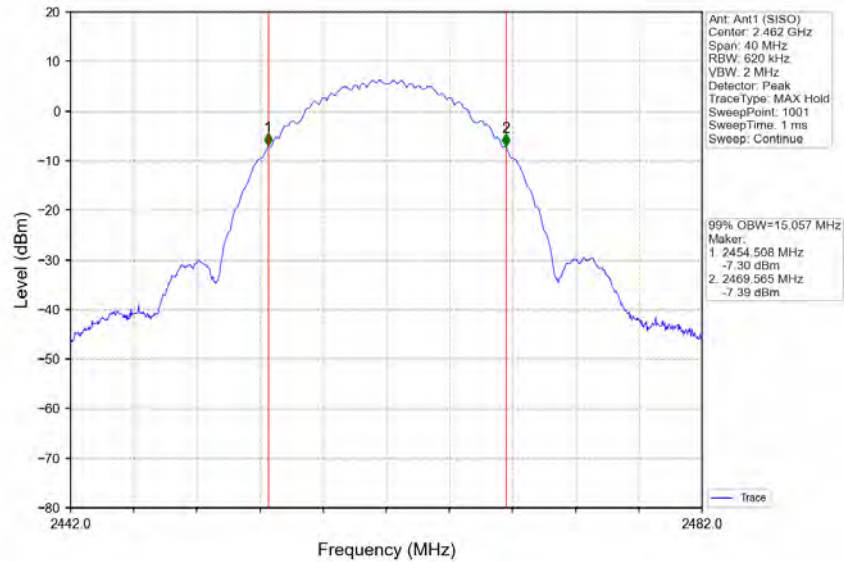
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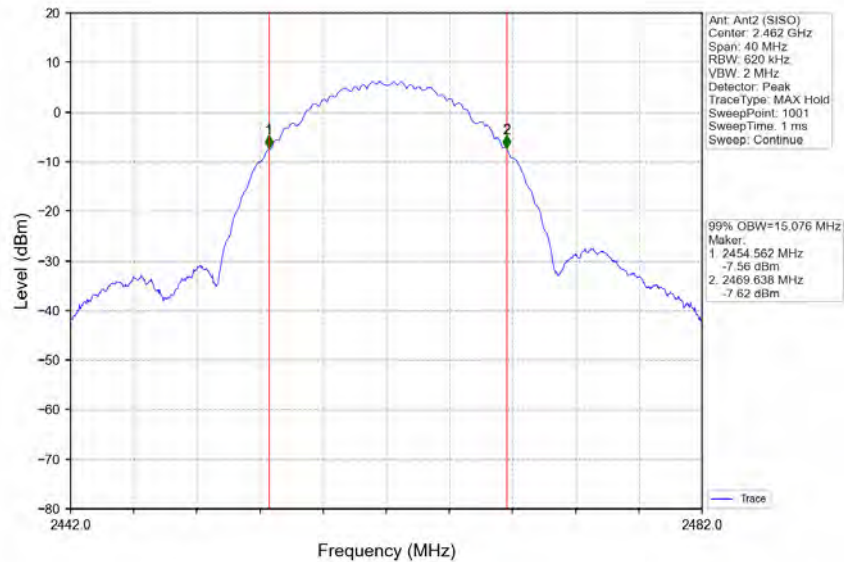
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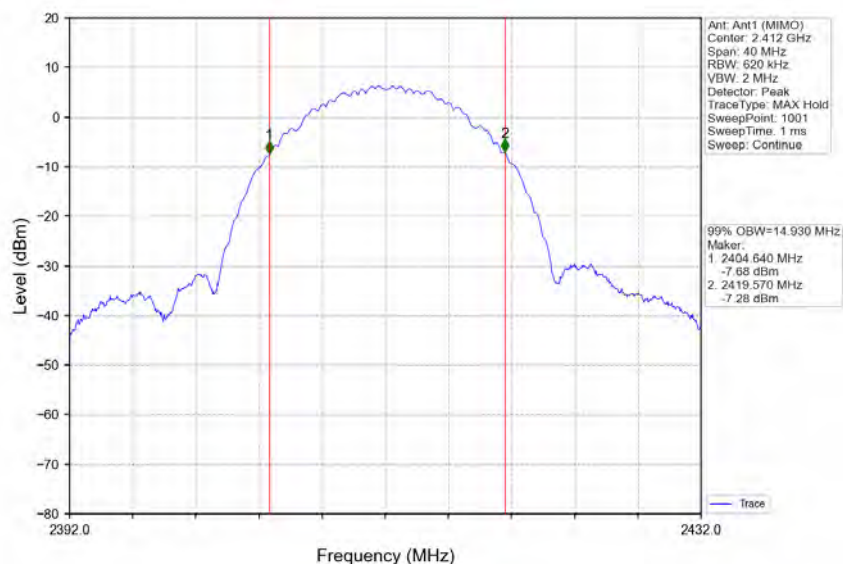


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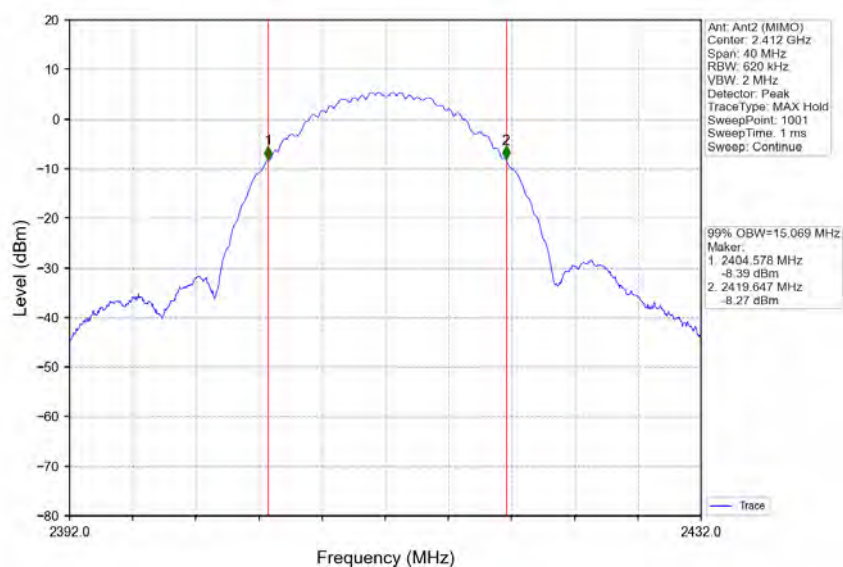
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



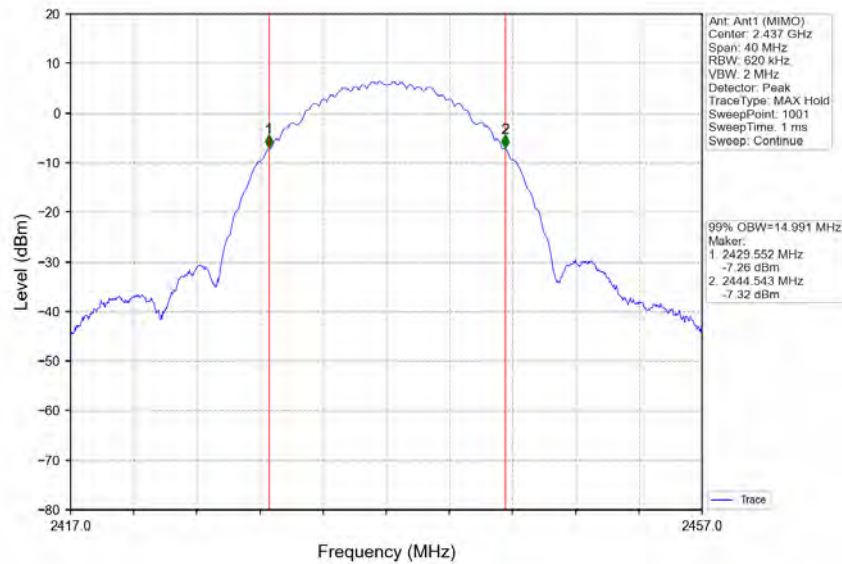
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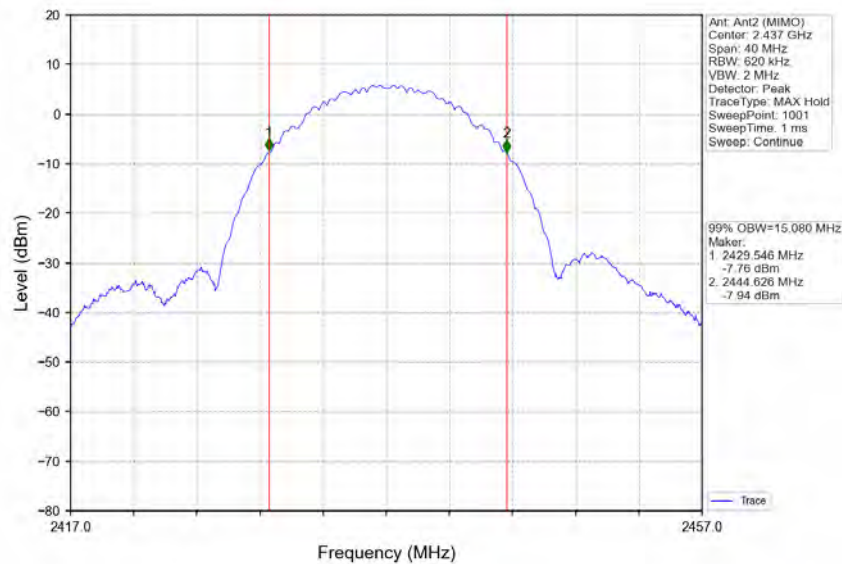
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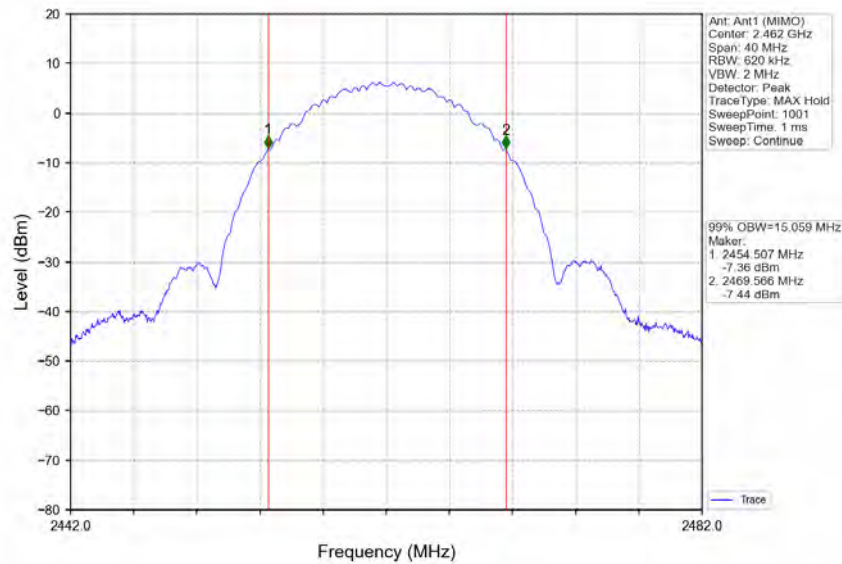
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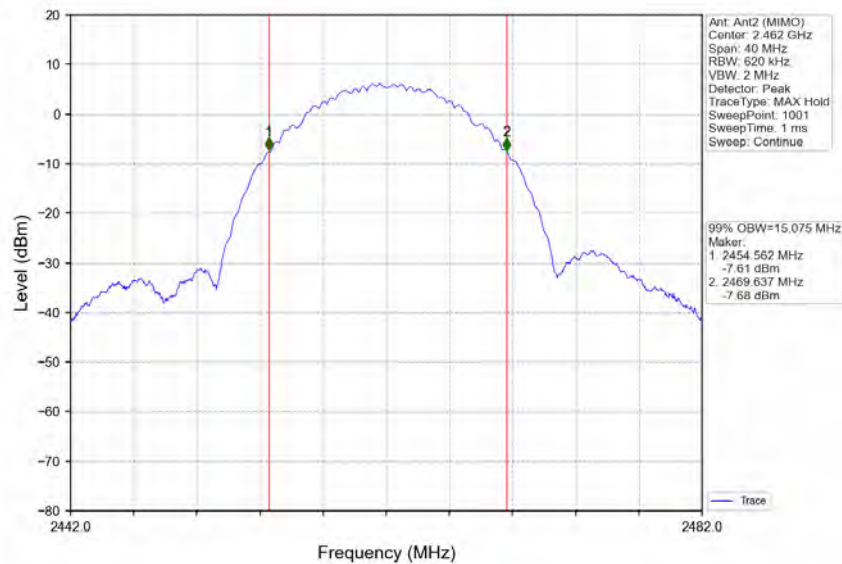
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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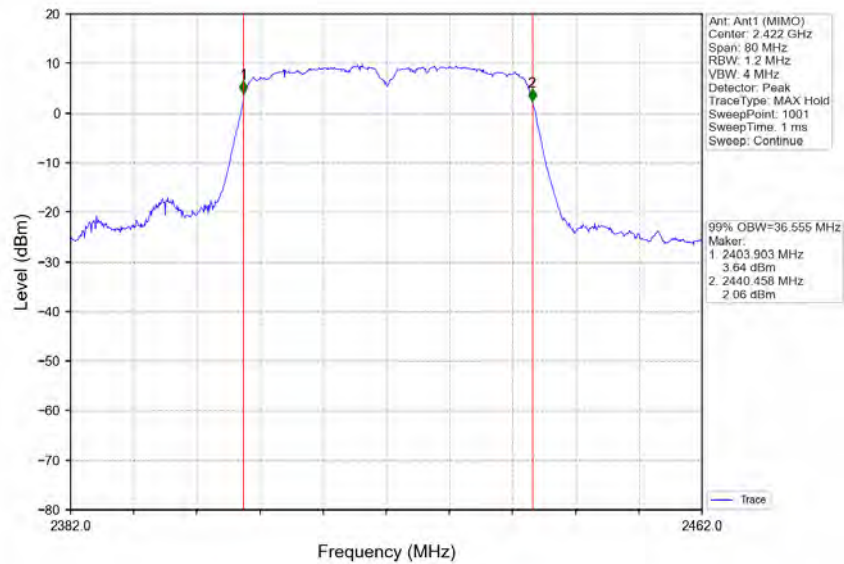
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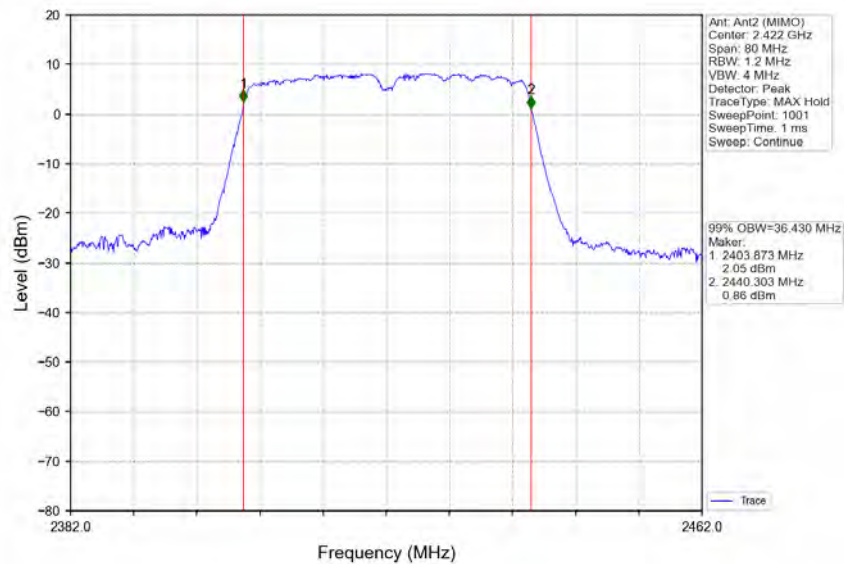
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



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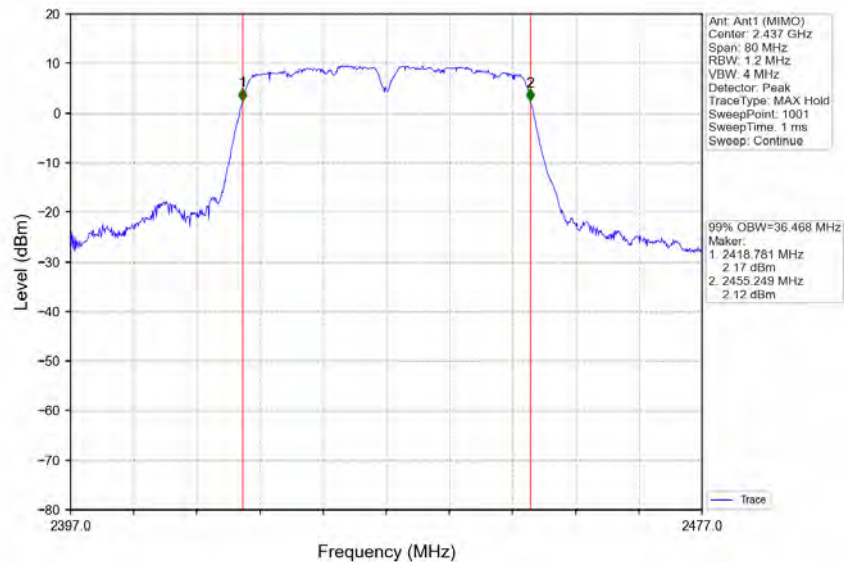
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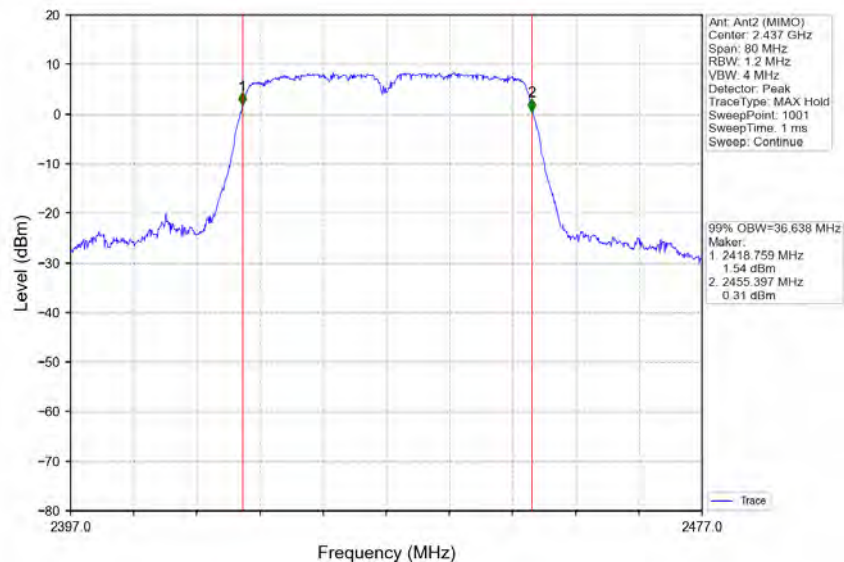
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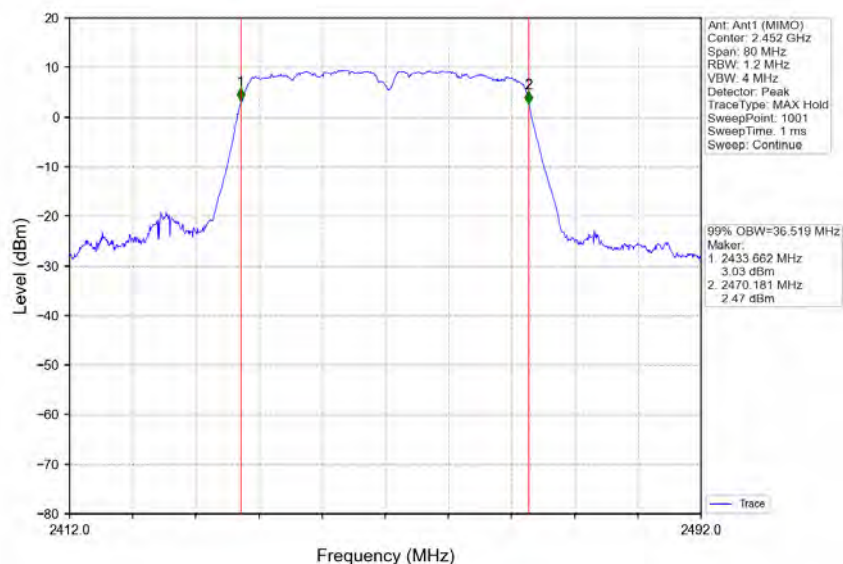
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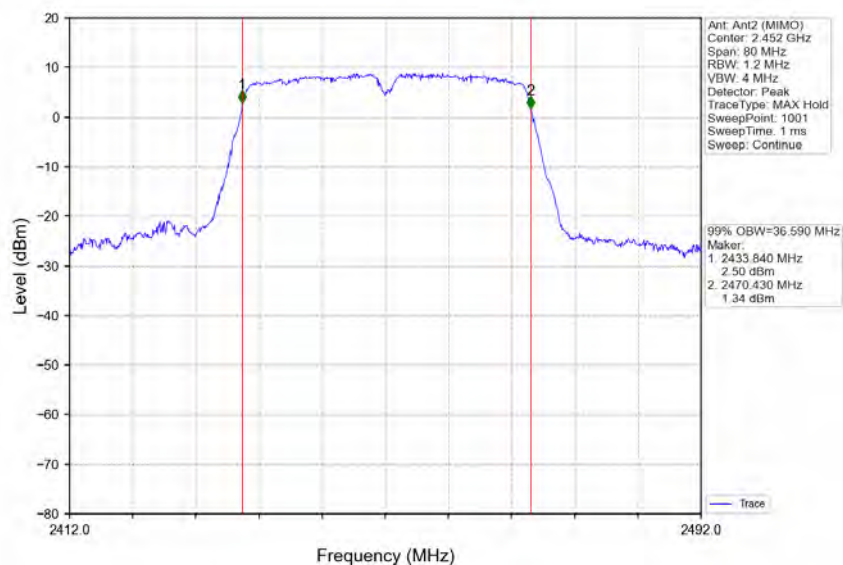
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.088	≥ 0.5	Pass
			2	10.097	≥ 0.5	Pass
		2437	1	10.098	≥ 0.5	Pass
			2	10.099	≥ 0.5	Pass
		2462	1	10.099	≥ 0.5	Pass
			2	10.100	≥ 0.5	Pass
802.11g	SISO	2412	1	10.080	≥ 0.5	Pass
			2	10.102	≥ 0.5	Pass
		2437	1	10.093	≥ 0.5	Pass
			2	10.101	≥ 0.5	Pass
		2462	1	10.101	≥ 0.5	Pass
			2	10.101	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	10.090	≥ 0.5	Pass
			2	10.099	≥ 0.5	Pass
		2437	1	10.093	≥ 0.5	Pass
			2	10.098	≥ 0.5	Pass
		2462	1	10.102	≥ 0.5	Pass
			2	10.090	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.341	≥ 0.5	Pass
			2	35.513	≥ 0.5	Pass
		2437	1	35.209	≥ 0.5	Pass
			2	35.534	≥ 0.5	Pass
		2452	1	35.200	≥ 0.5	Pass
			2	35.709	≥ 0.5	Pass



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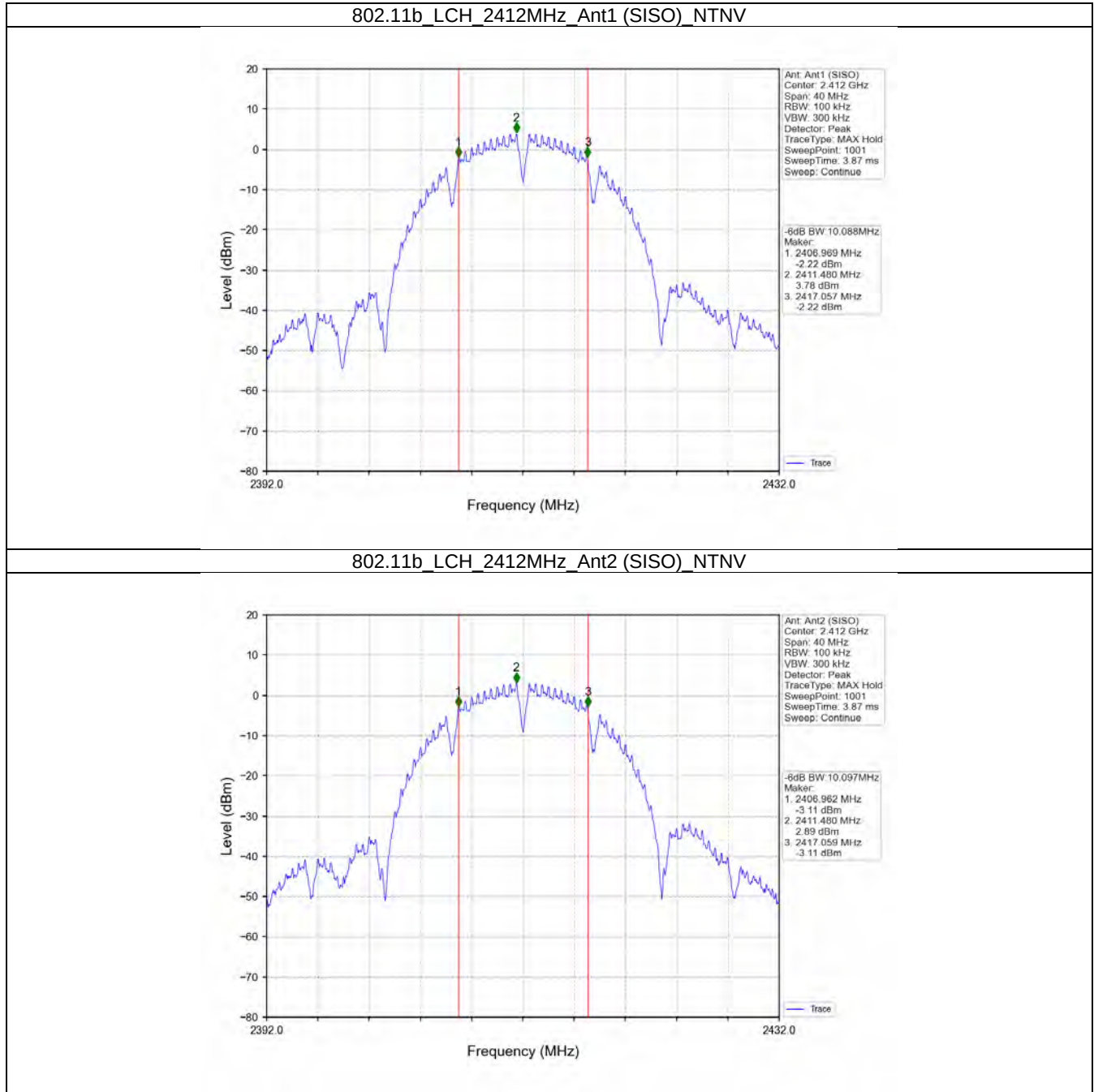
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2.2.2 Test Graph



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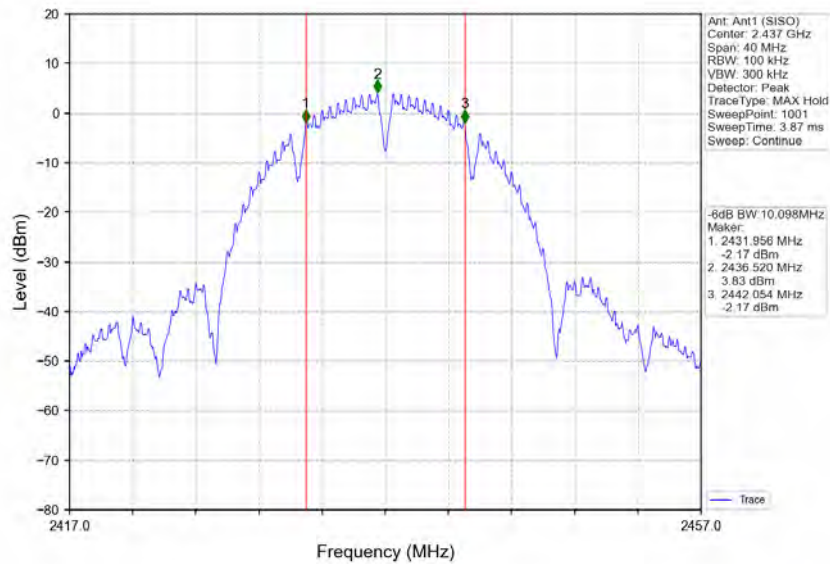
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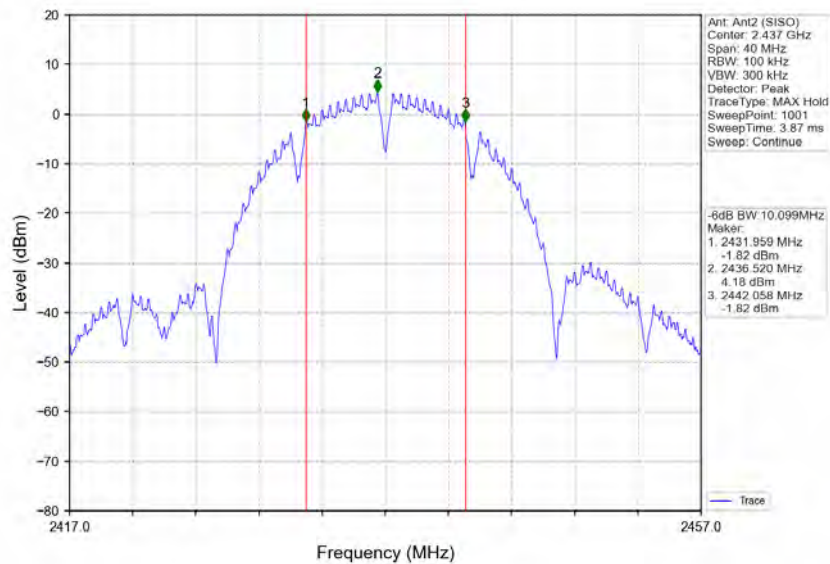
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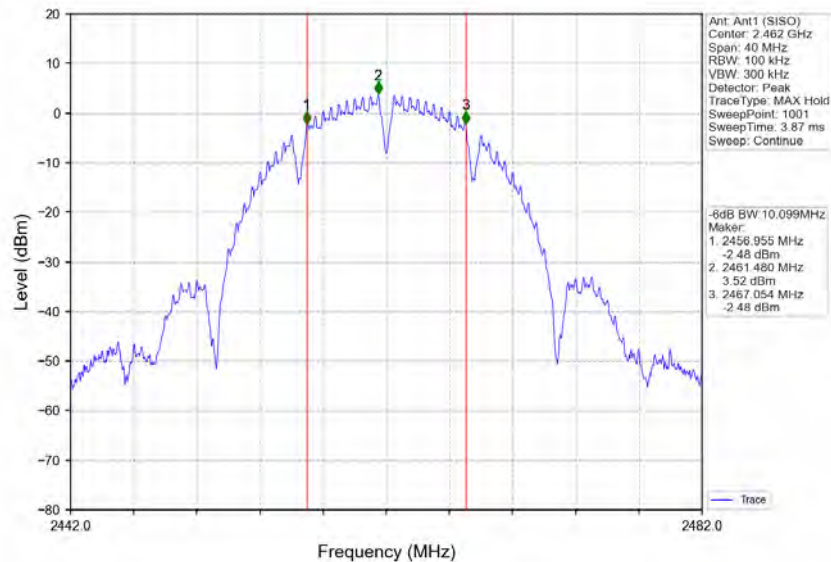


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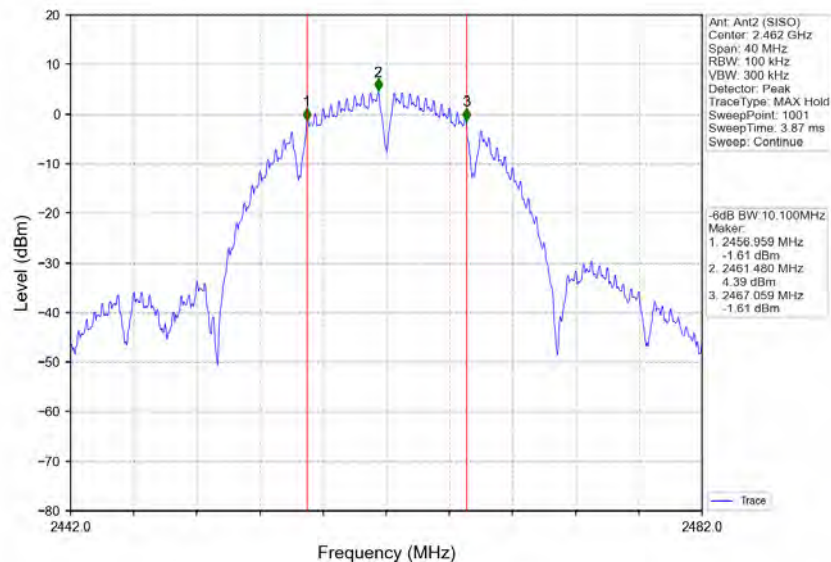
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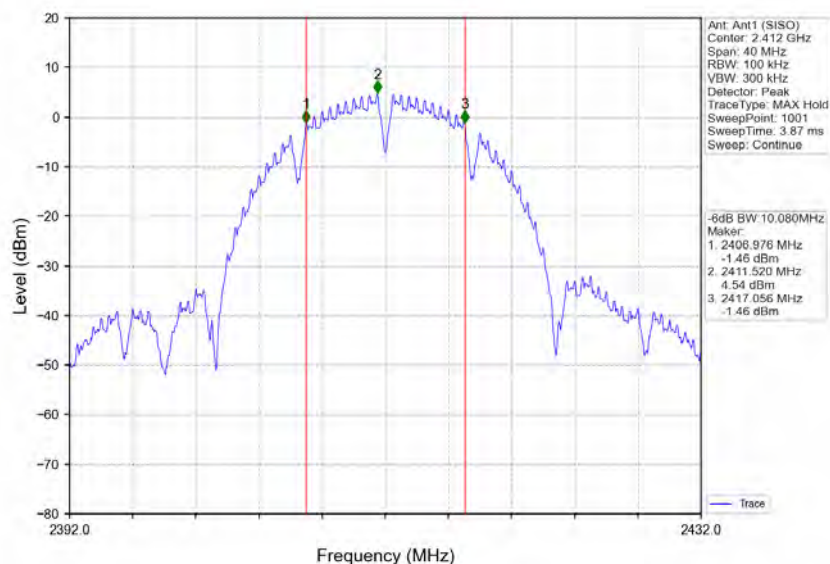
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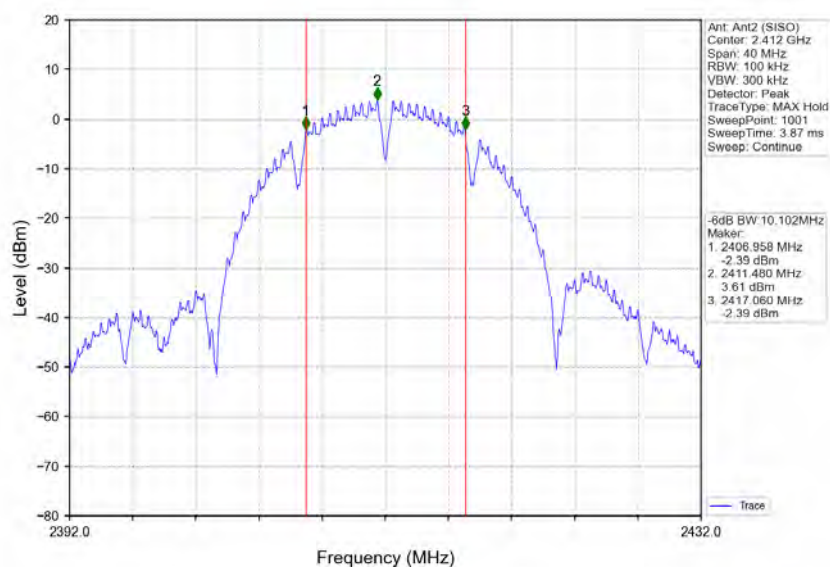
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



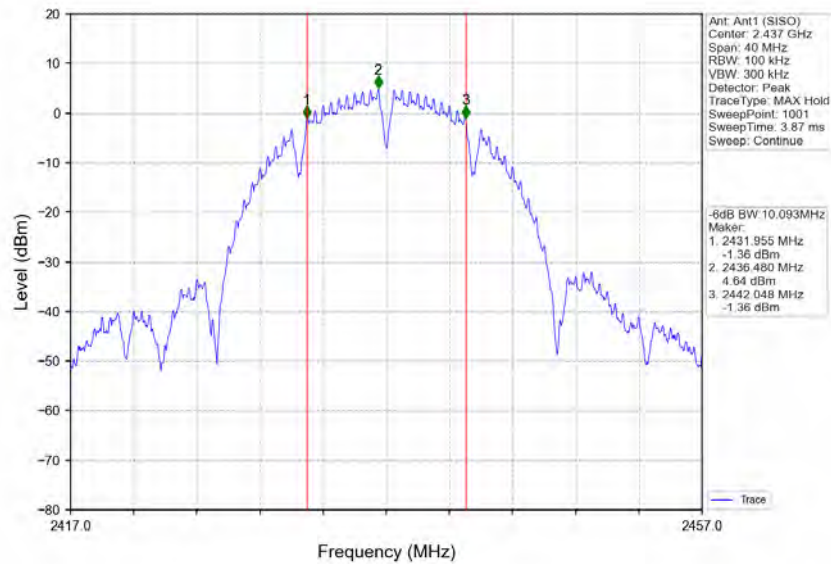
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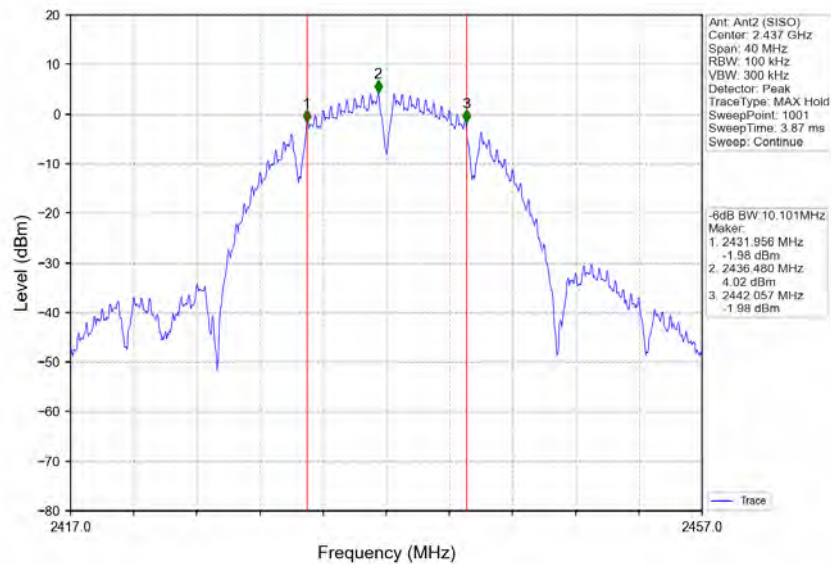
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV

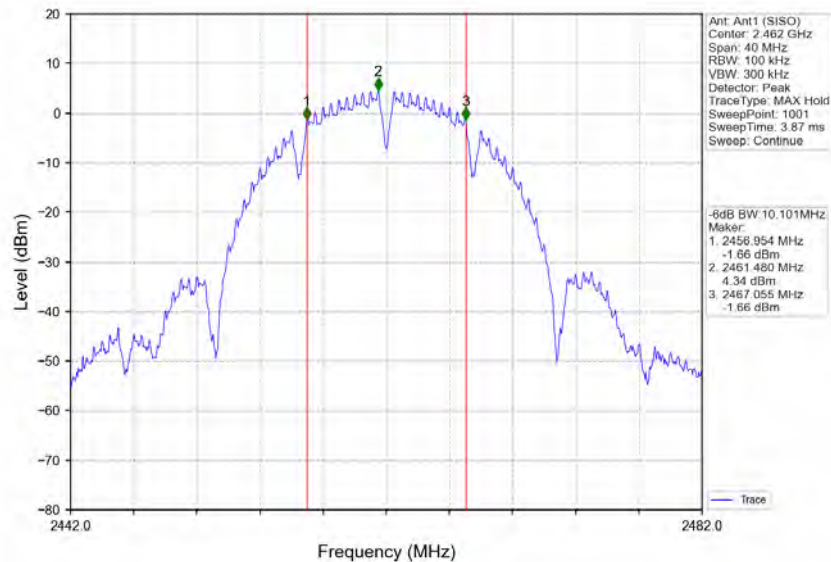


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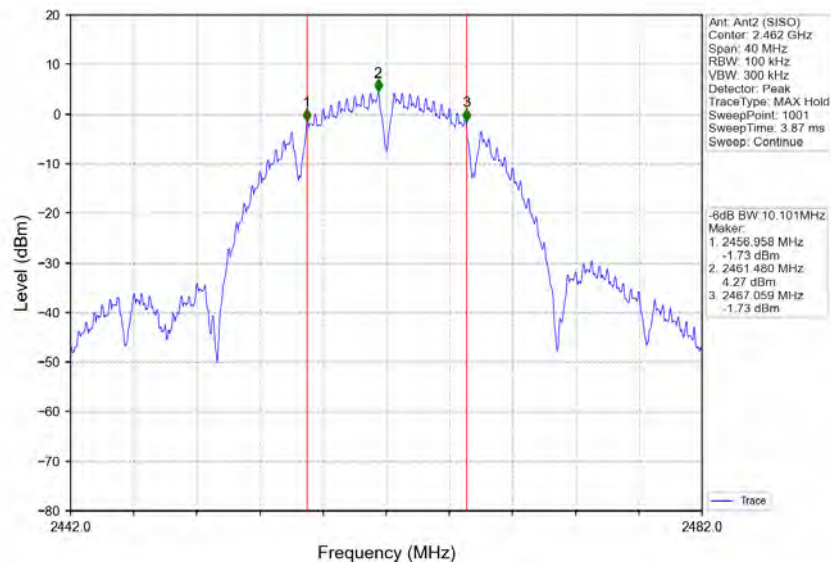
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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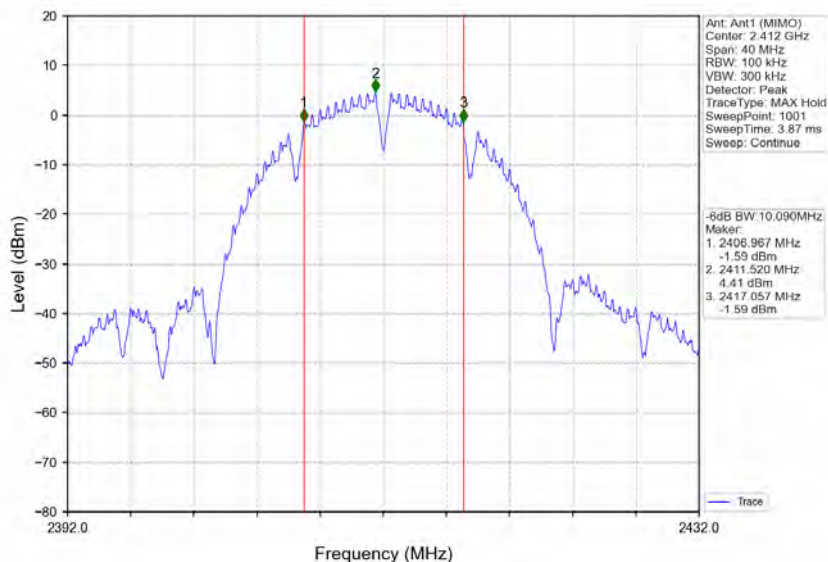
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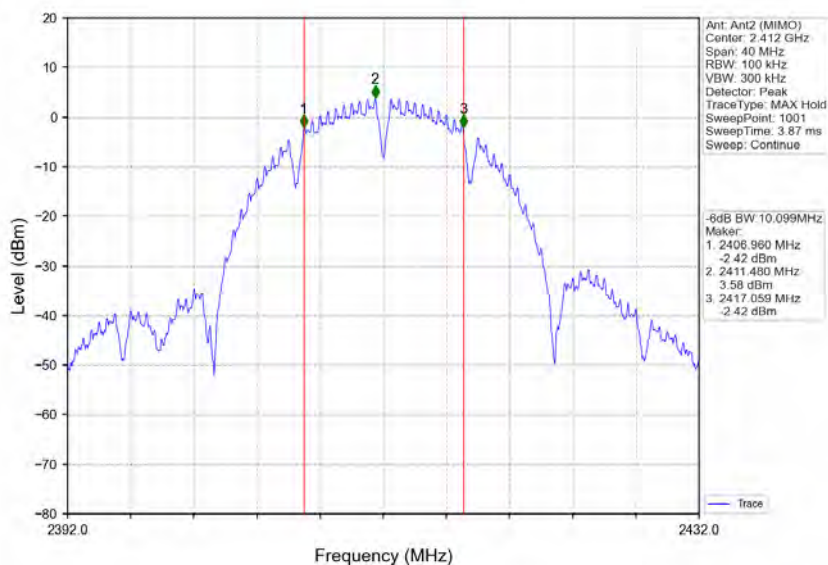
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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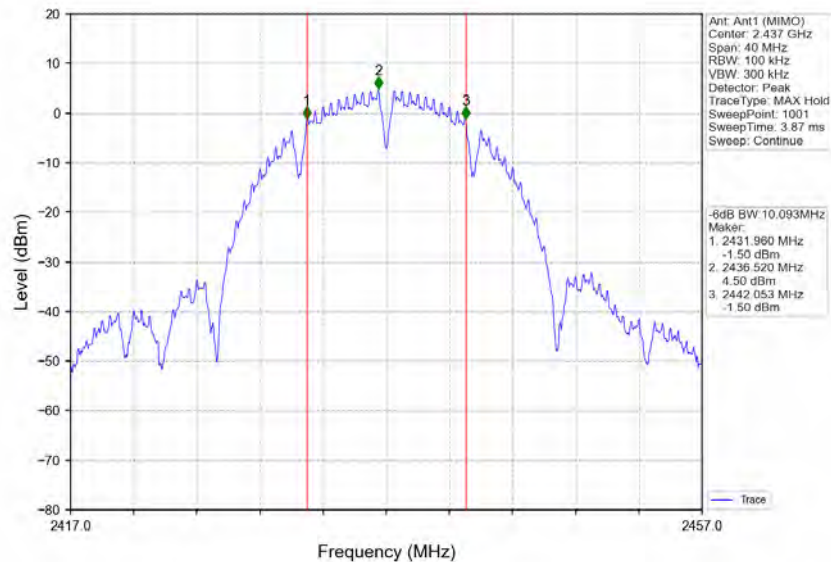
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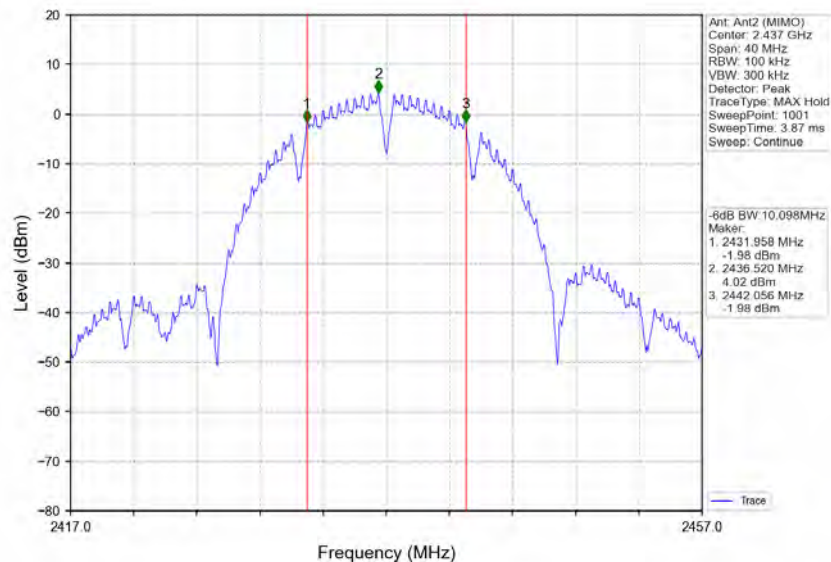
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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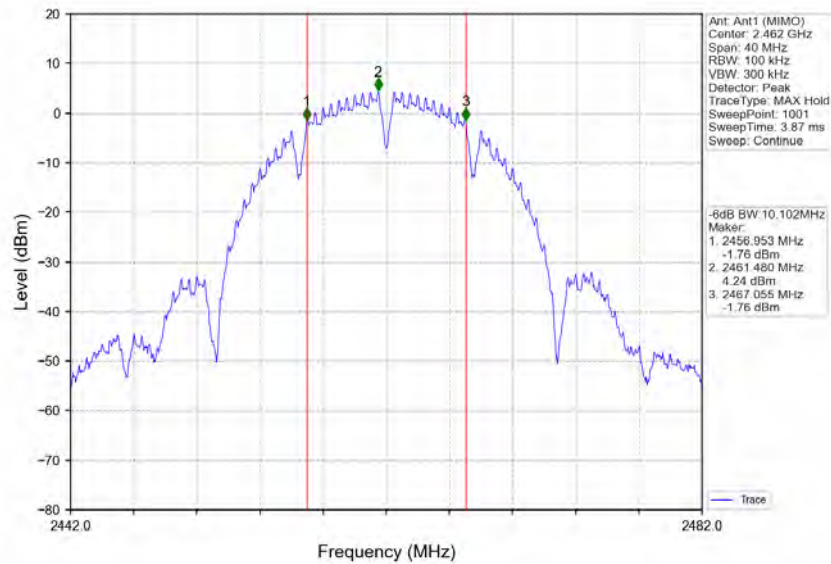


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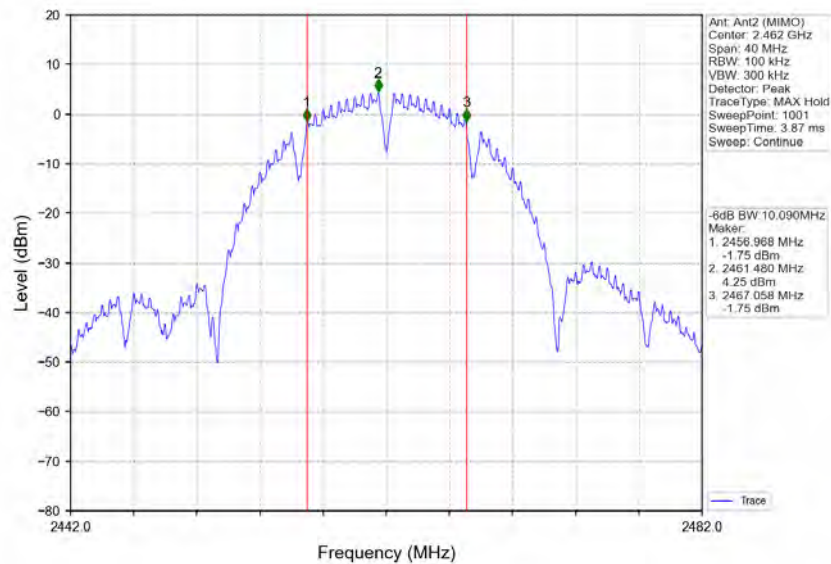
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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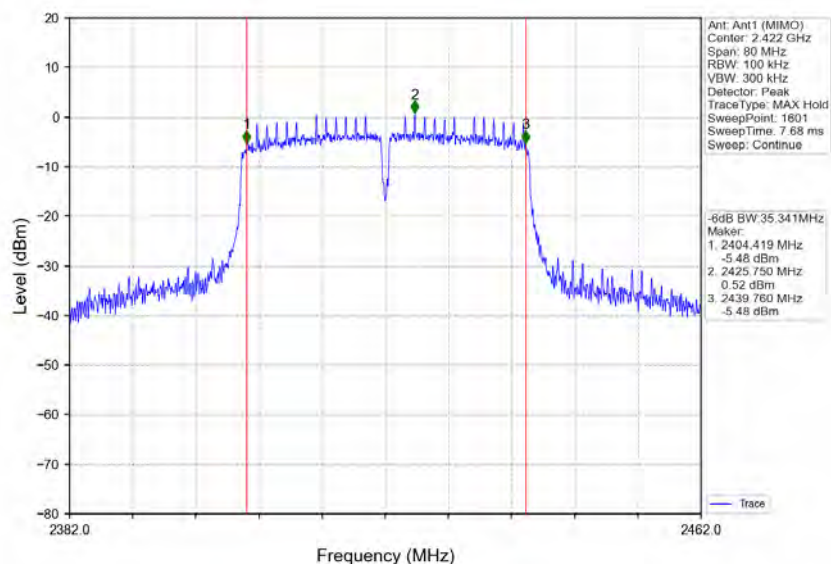


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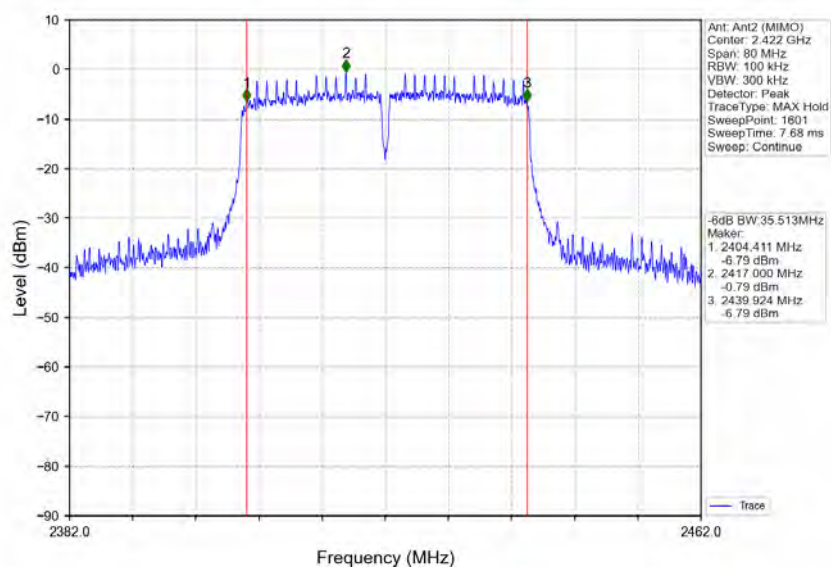
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



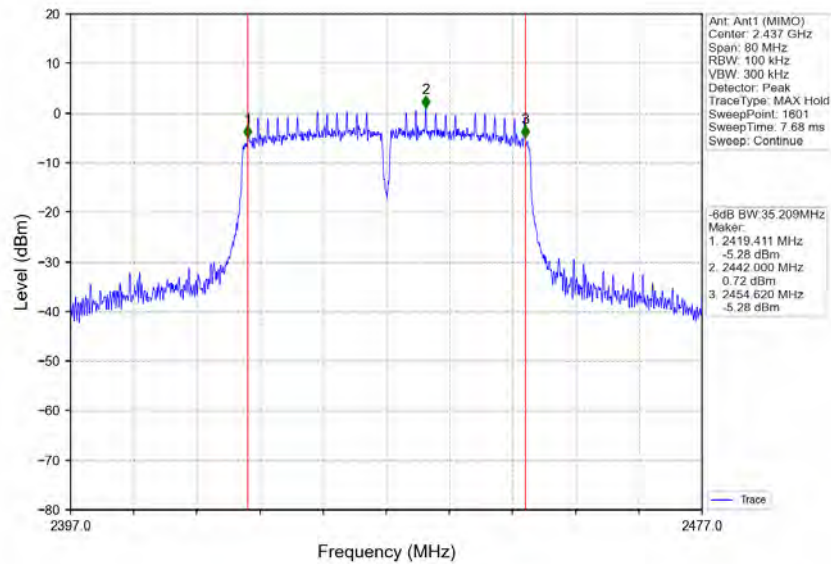
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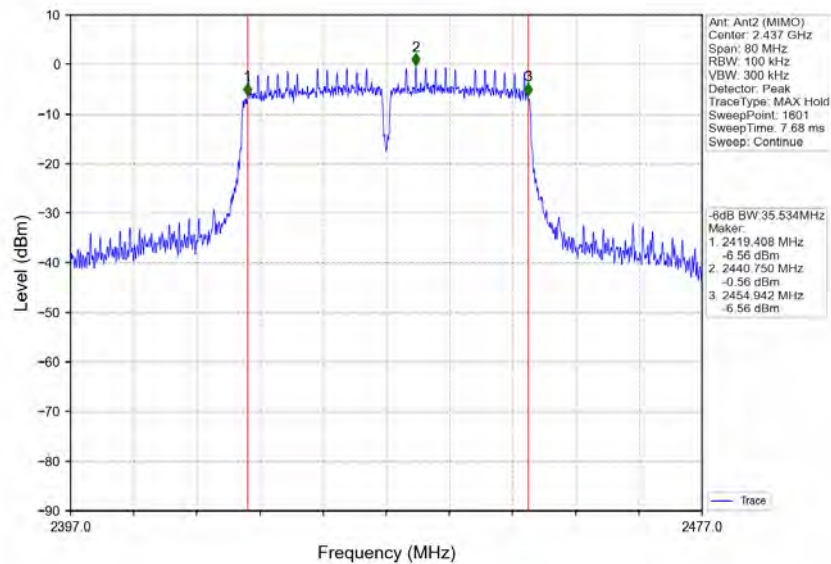
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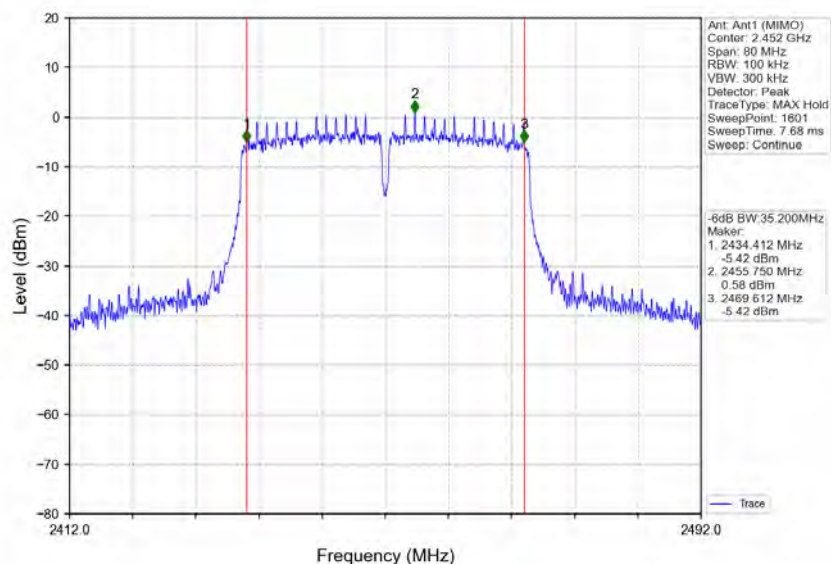
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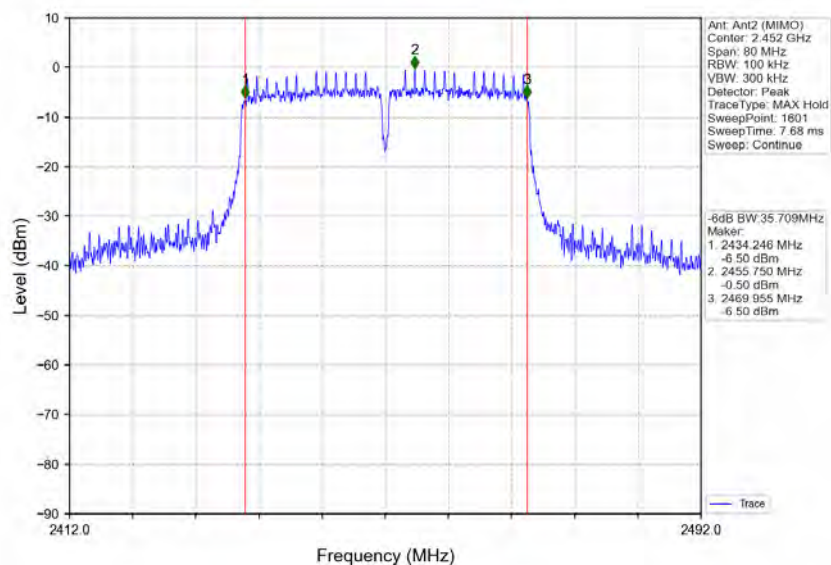
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3. Maximum Conducted Output Power

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	13.67	13.73	/	<=30	Pass
		2437	13.75	14.11	/	<=30	Pass
		2462	13.47	14.32	/	<=30	Pass
802.11g	SISO	2412	14.45	13.55	/	<=30	Pass
		2437	14.56	13.95	/	<=30	Pass
		2462	14.29	14.21	/	<=30	Pass
802.11n (HT20)	MIMO	2412	14.32	13.54	16.96	<=30	Pass
		2437	14.43	13.95	17.21	<=30	Pass
		2462	14.20	14.18	17.20	<=30	Pass
802.11n (HT40)	MIMO	2422	14.40	13.26	16.88	<=30	Pass
		2437	14.44	13.53	17.02	<=30	Pass
		2452	14.32	13.70	17.03	<=30	Pass
Note1: Antenna Gain: Ant1: 2.04dBi; Ant2: 3.51dBi; Note2: Directional Gain: 5.85dBi							



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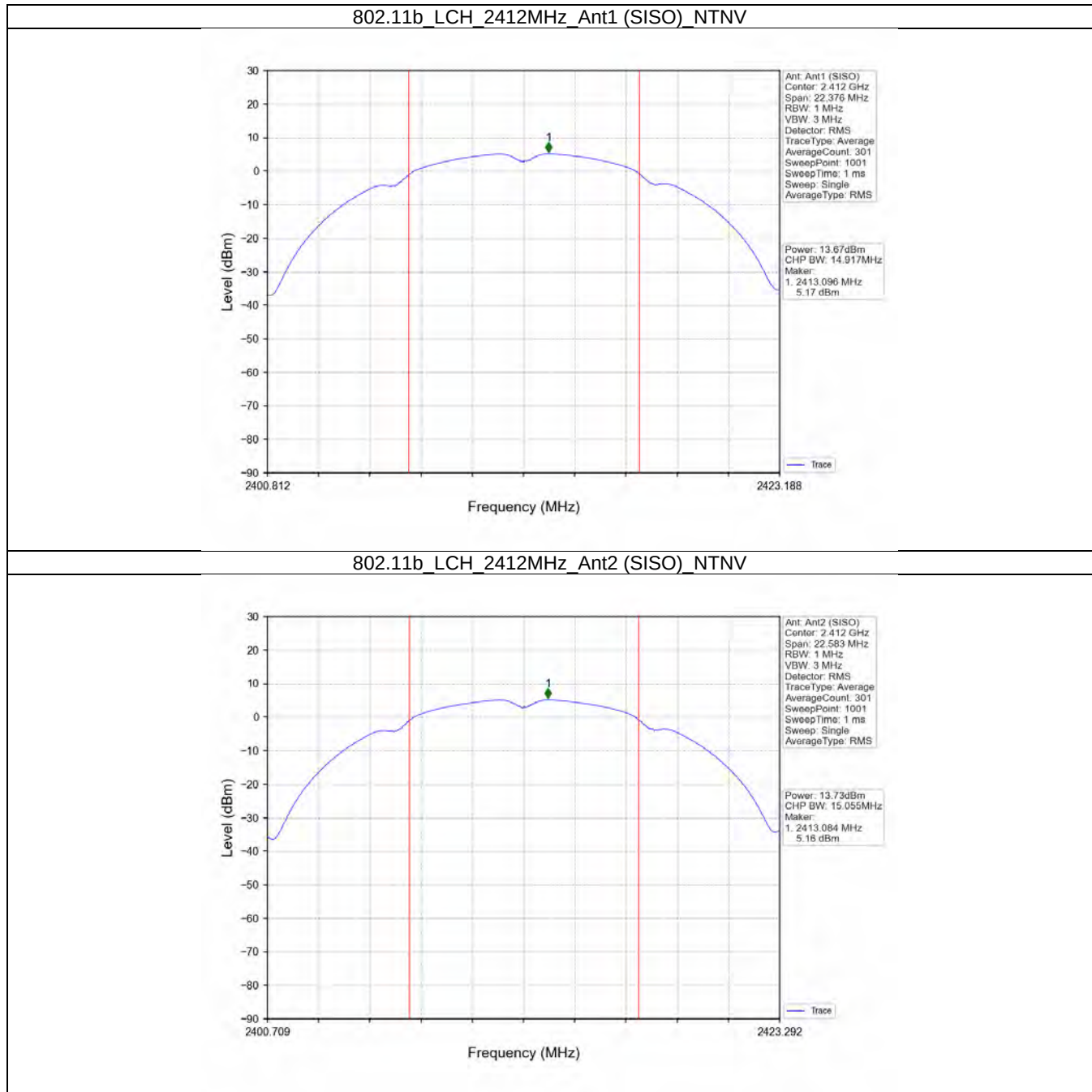
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3.1.2 Test Graph



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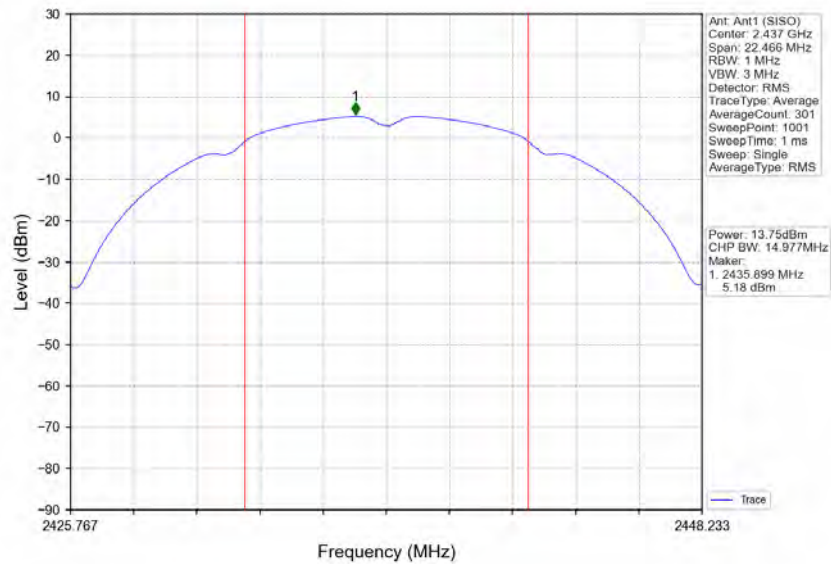
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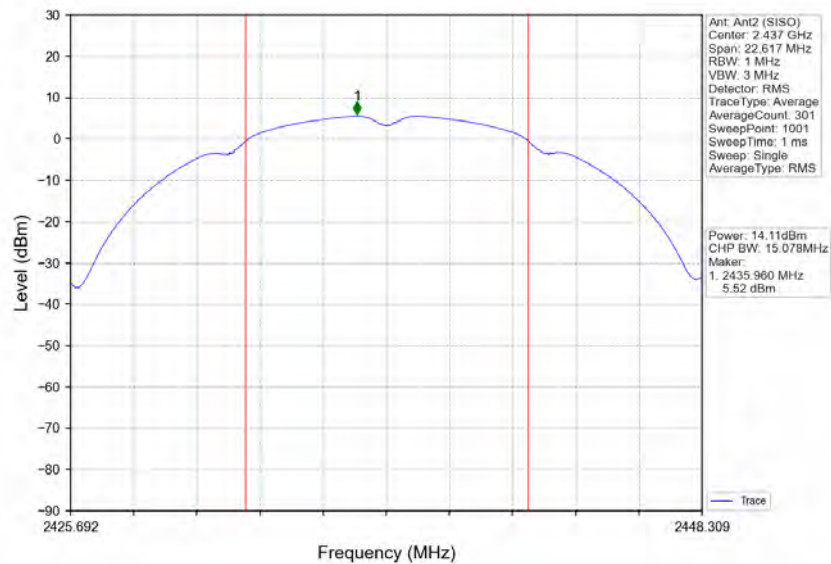
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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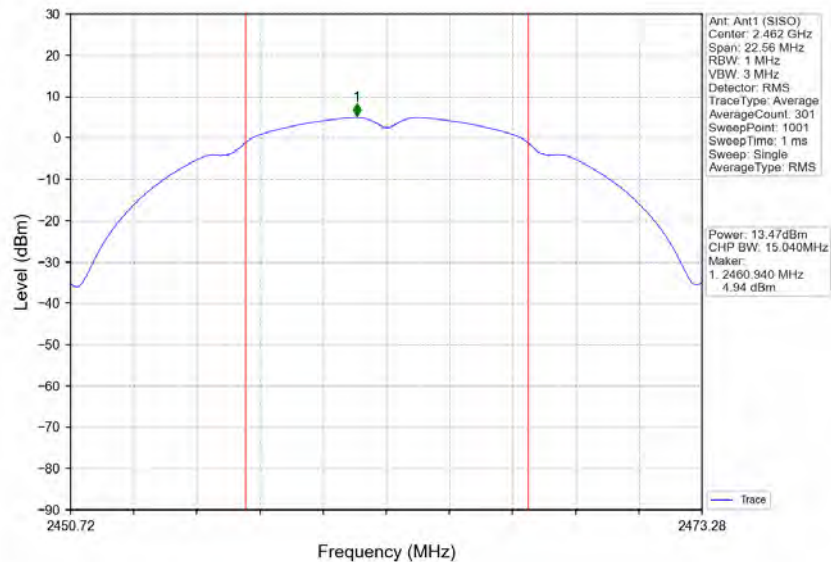
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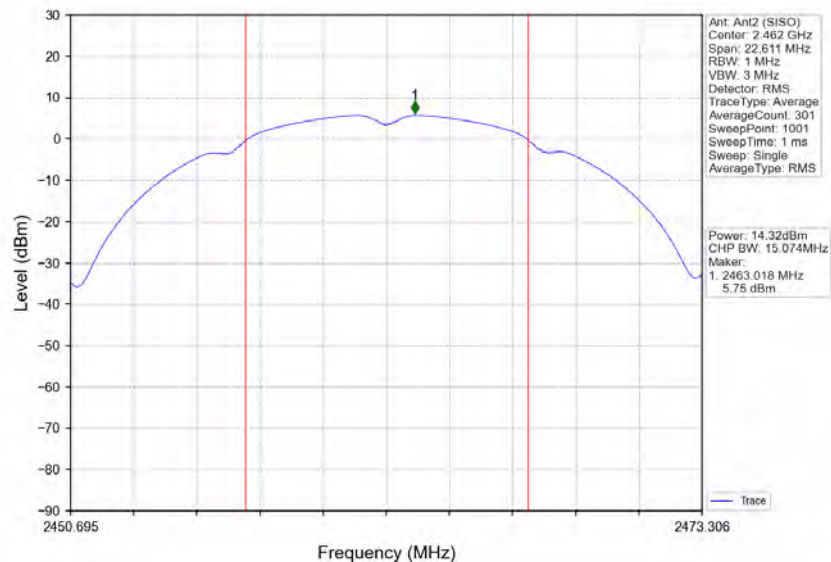
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



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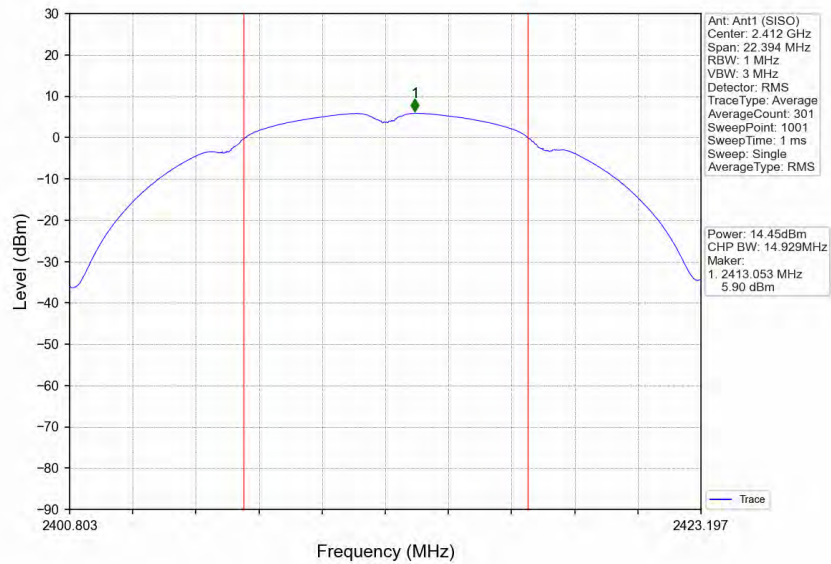
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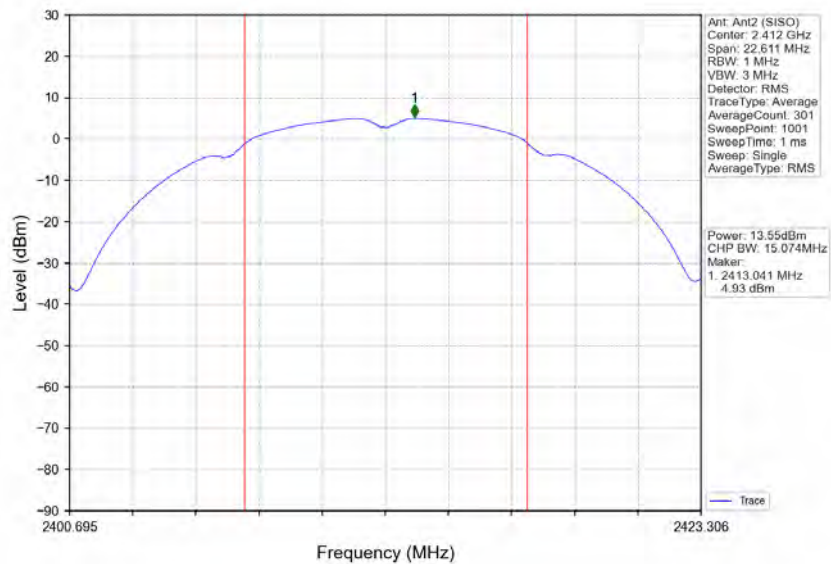
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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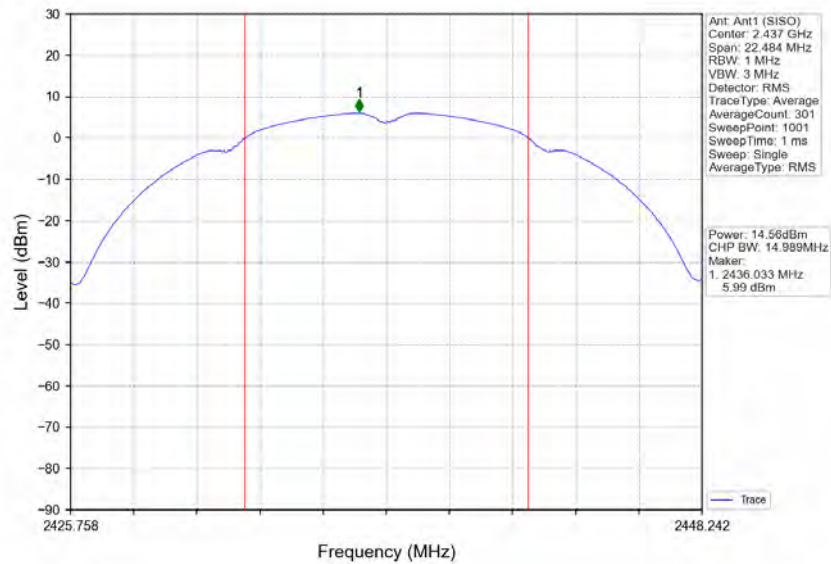
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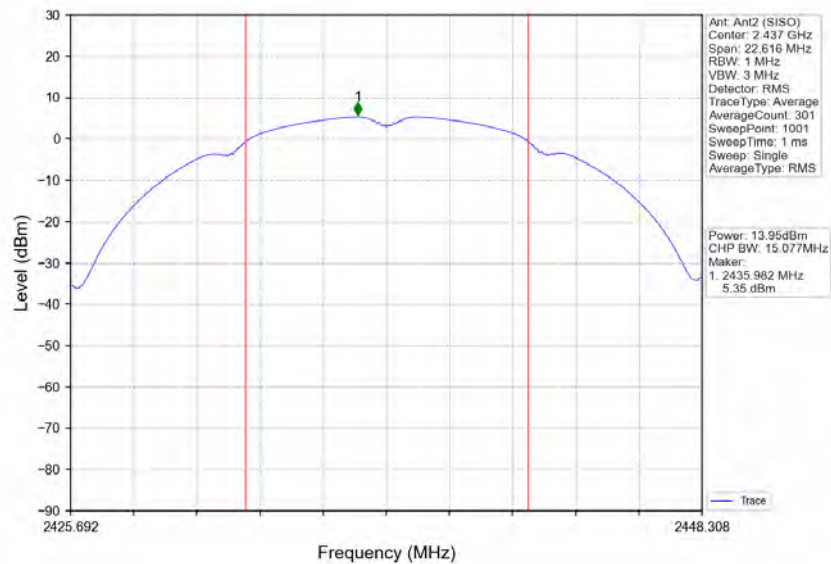
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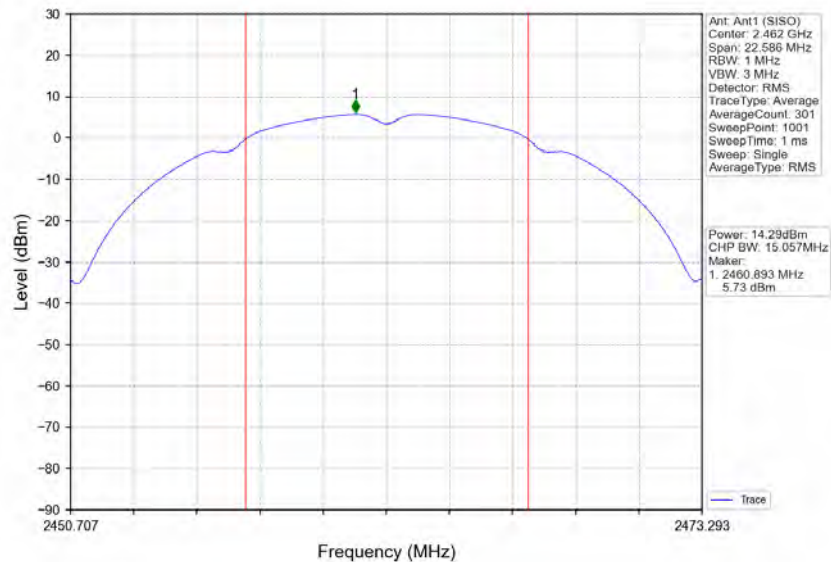
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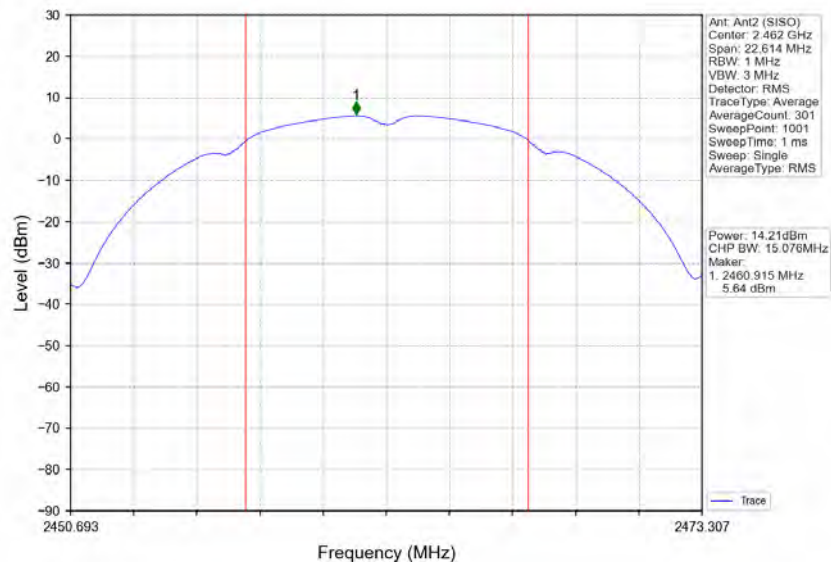
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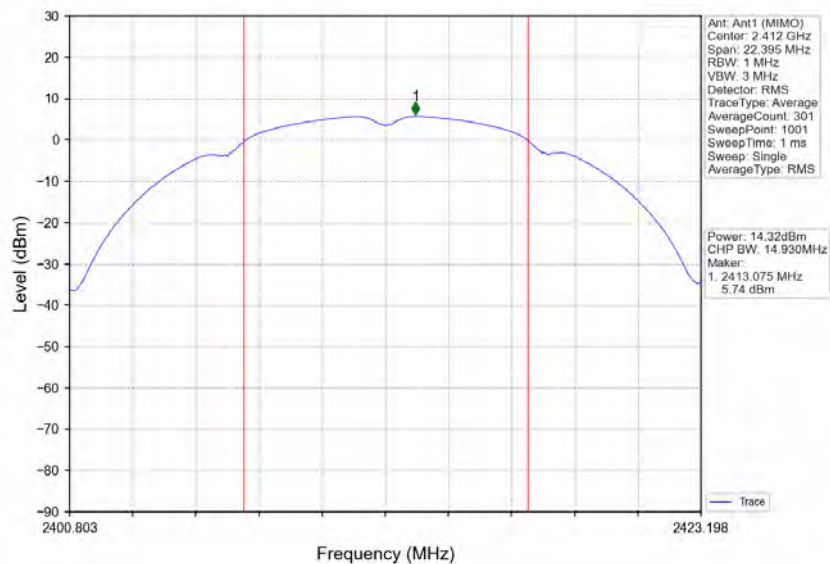
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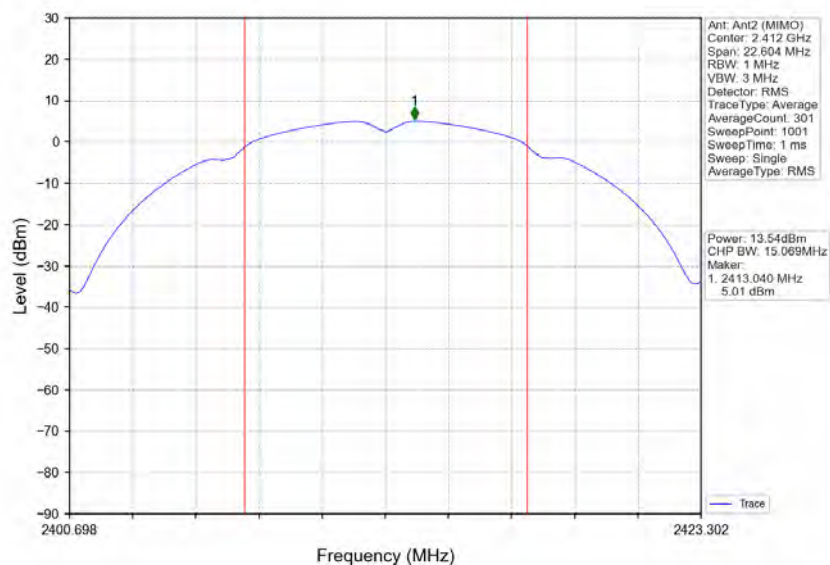
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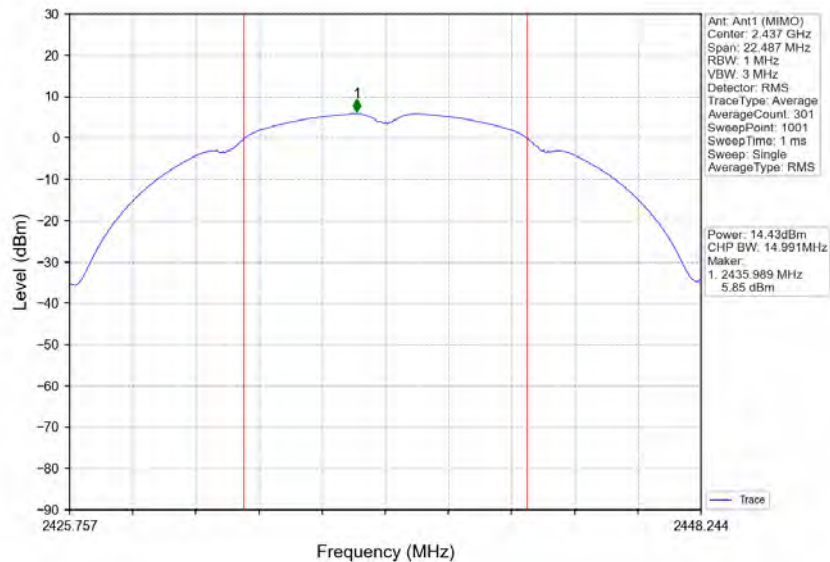
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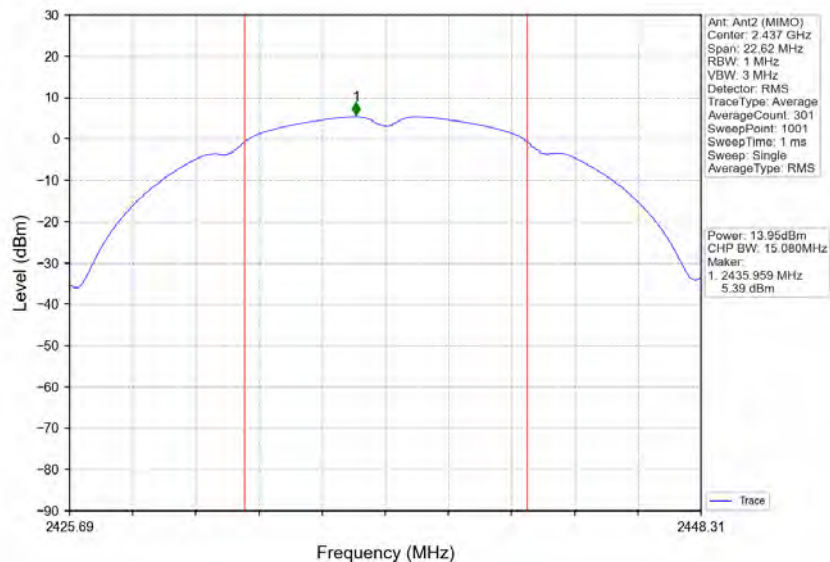
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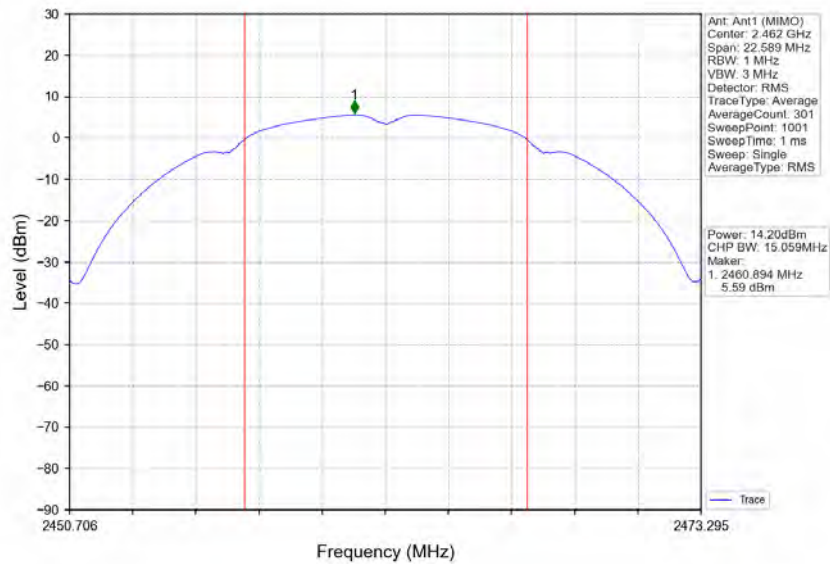
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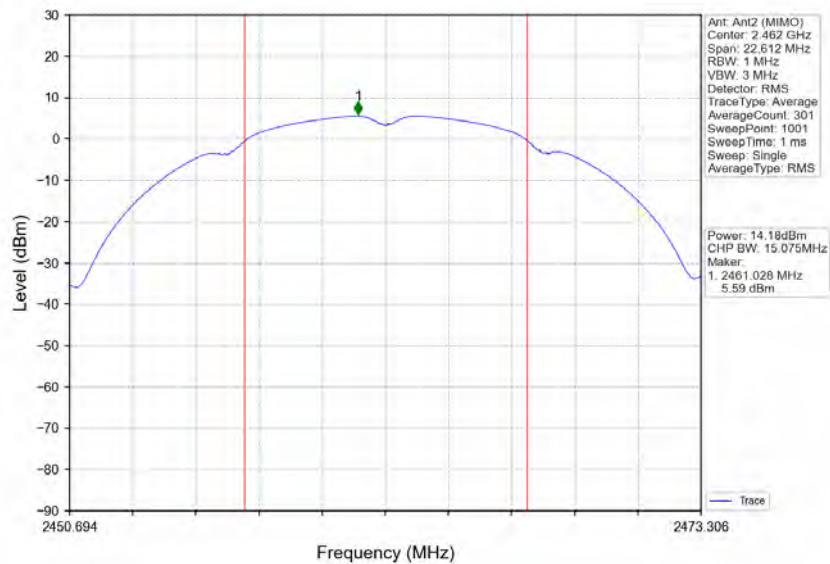
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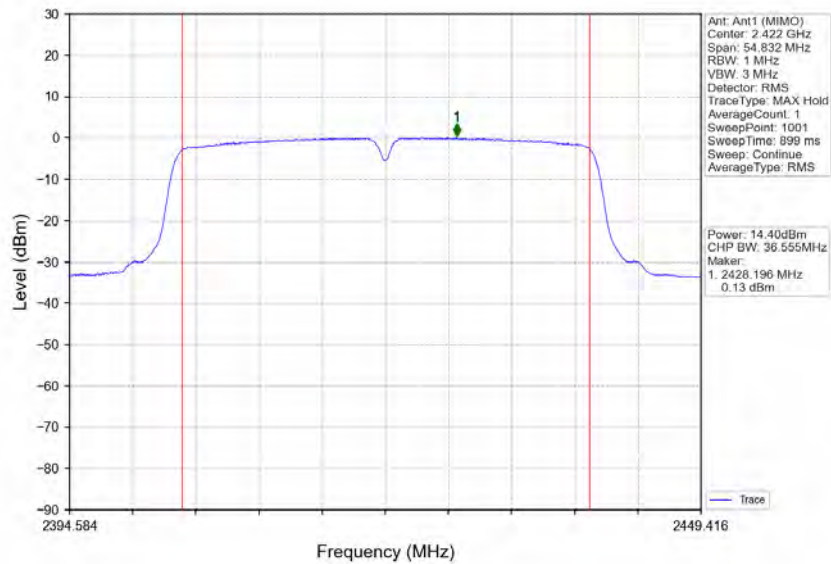
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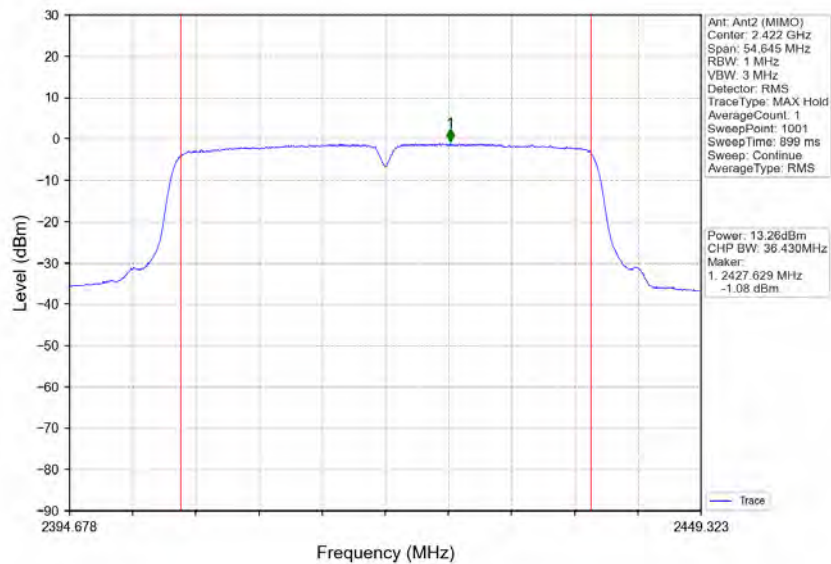
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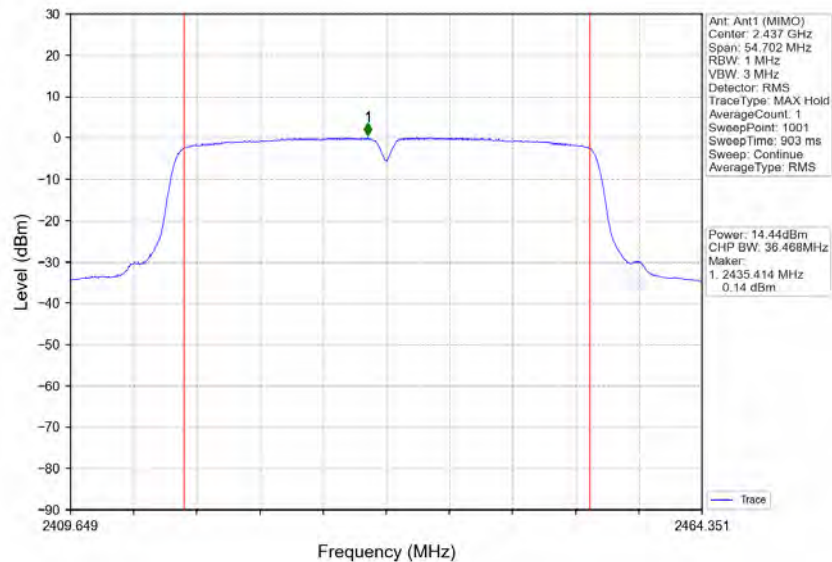
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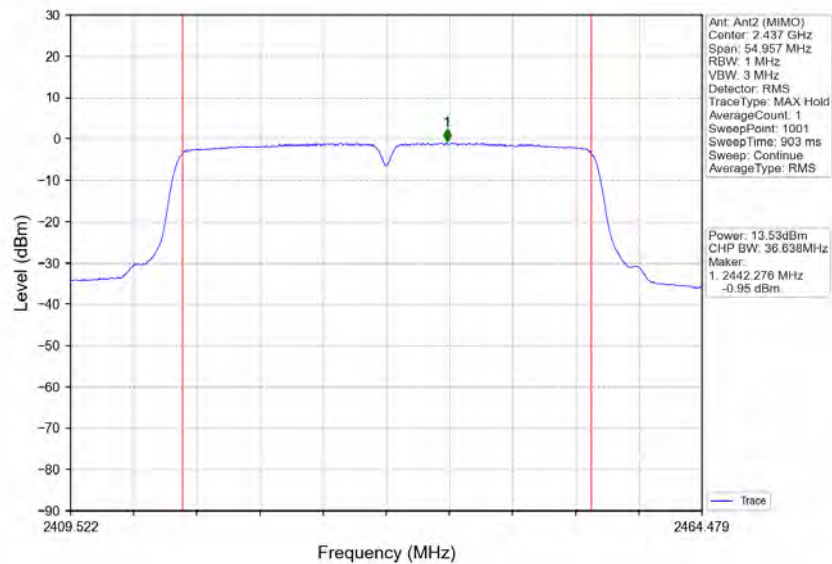
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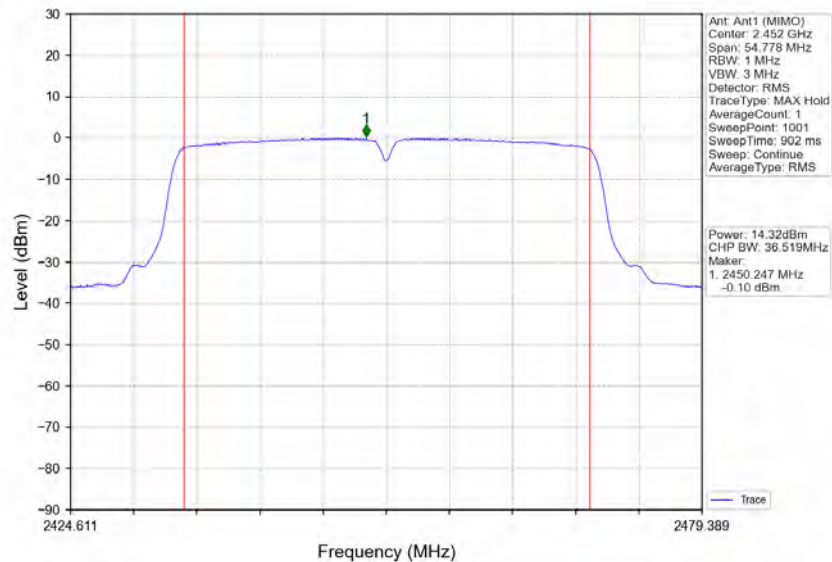
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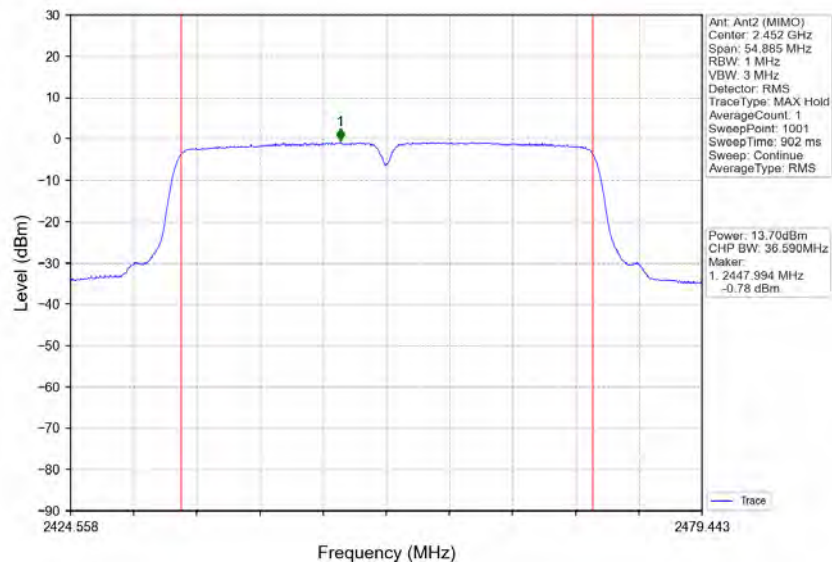
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4. Maximum Power Spectral Density

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	-16.16	-16.16	/	<=8	Pass
		2437	-16.06	-15.79	/	<=8	Pass
		2462	-16.37	-15.53	/	<=8	Pass
802.11g	SISO	2412	-15.38	-16.27	/	<=8	Pass
		2437	-15.30	-15.93	/	<=8	Pass
		2462	-15.60	-15.65	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-15.44	-16.32	-12.85	<=8	Pass
		2437	-15.41	-15.97	-12.69	<=8	Pass
		2462	-15.66	-15.71	-12.70	<=8	Pass
802.11n (HT40)	MIMO	2422	-13.68	-14.99	-12.49	<=8	Pass
		2437	-13.65	-15.04	-12.42	<=8	Pass
		2452	-13.18	-13.32	-11.62	<=8	Pass

Note1: Antenna Gain: Ant1: 2.04dBi; Ant2: 3.51dBi;



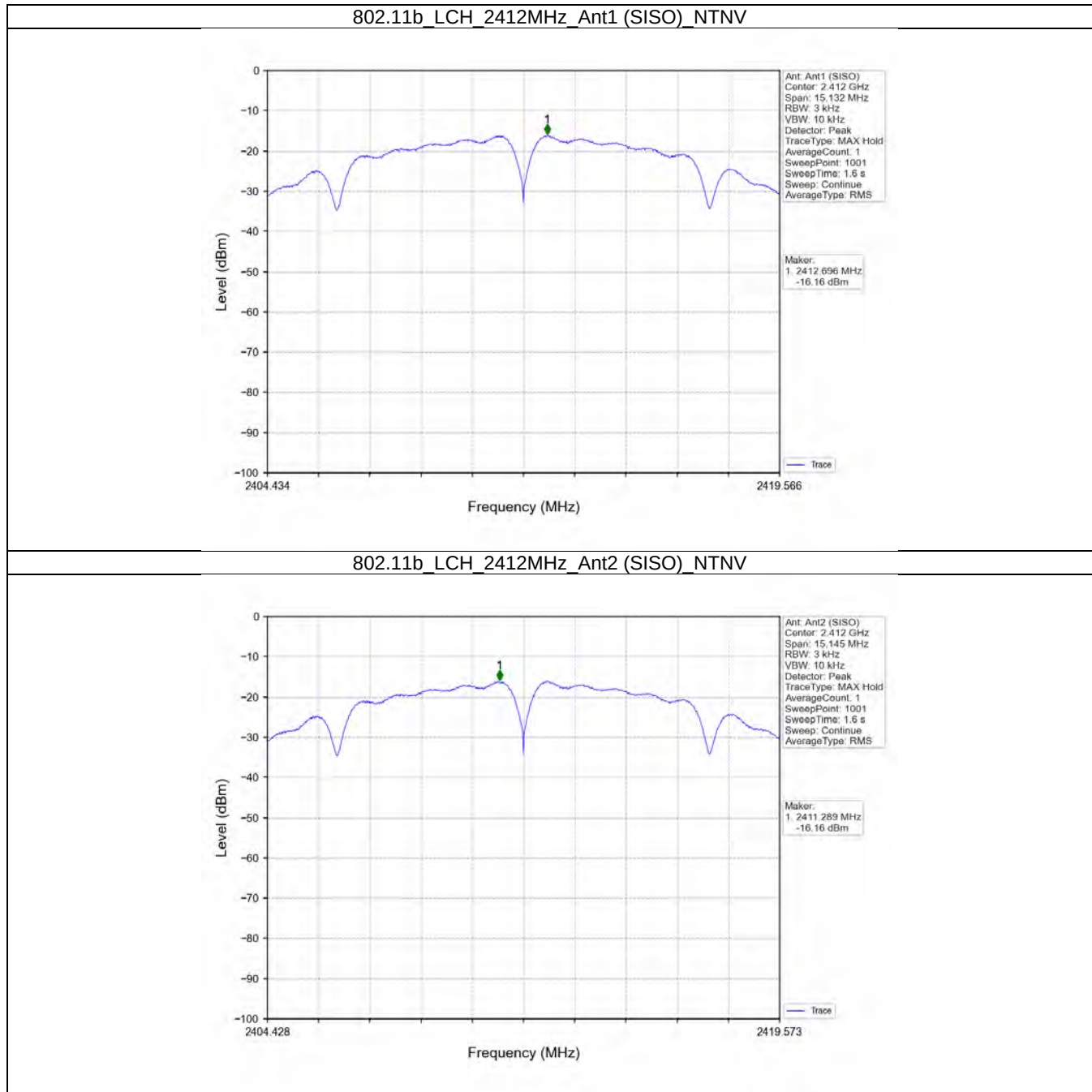
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4.1.2 Test Graph



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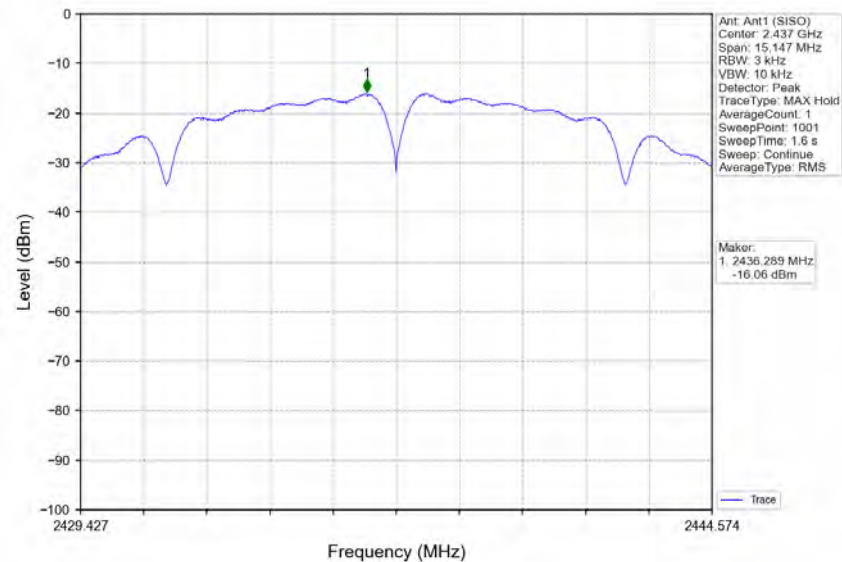
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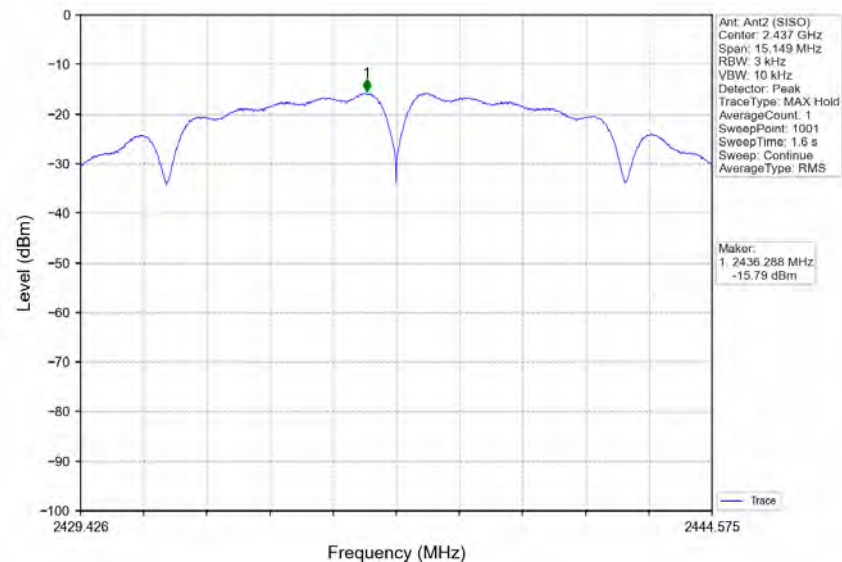
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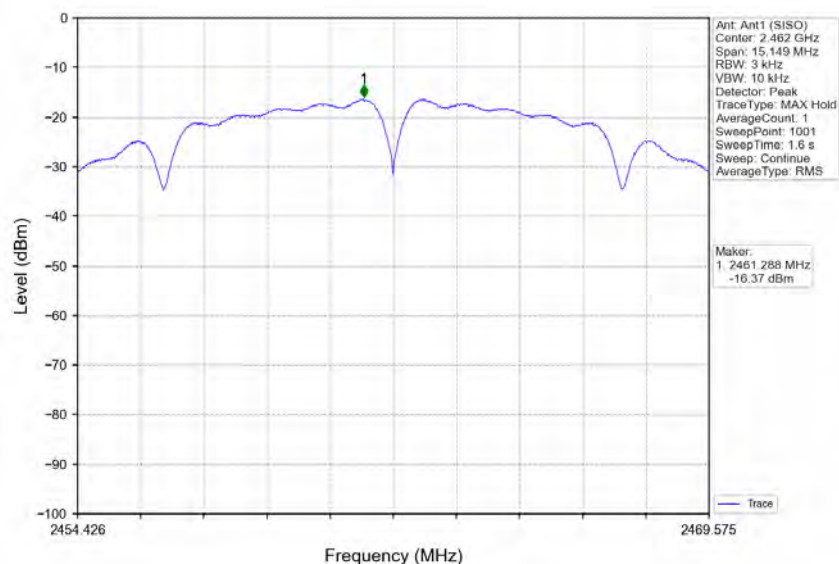
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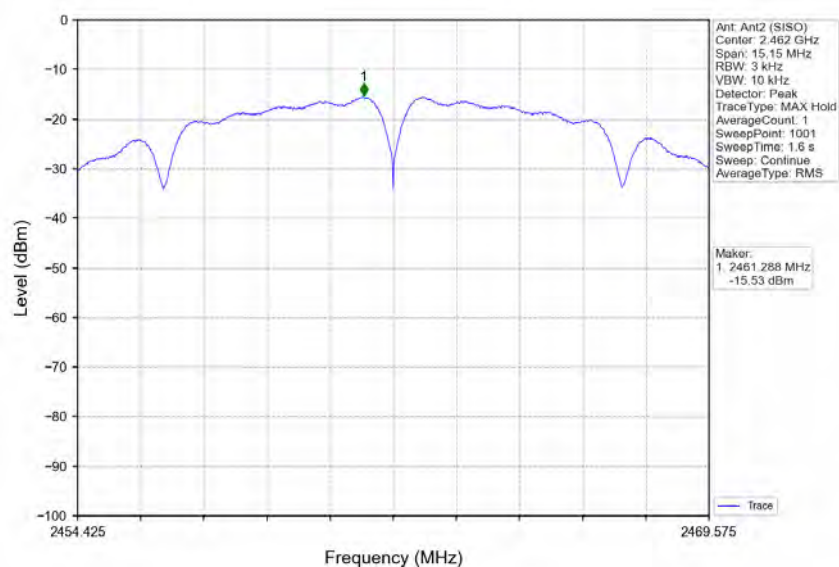
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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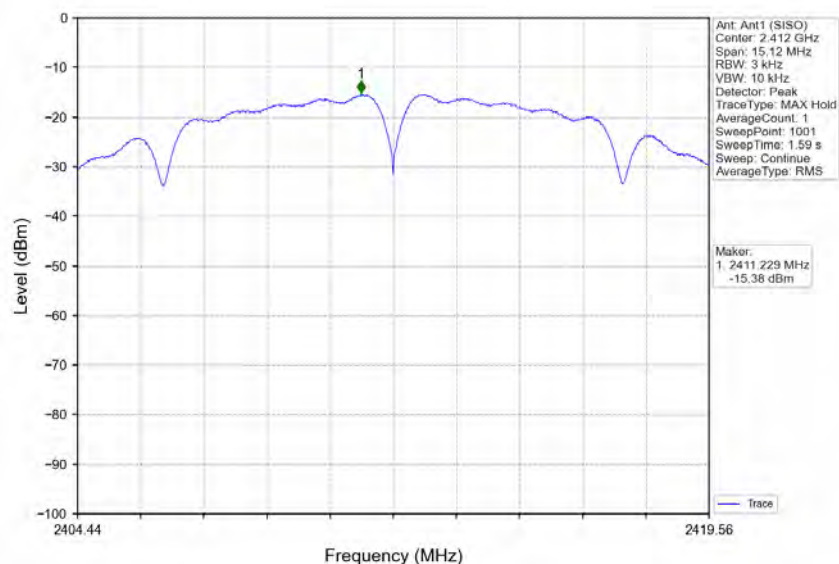
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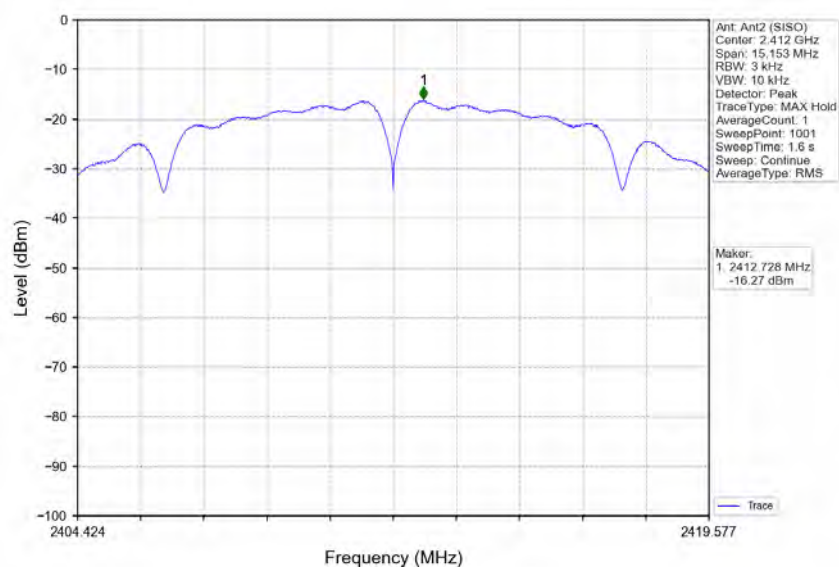
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802.11g_LCH_2412MHz_Ant1 (SISO) NTN



802.11g_LCH_2412MHz_Ant2 (SISO) NTN



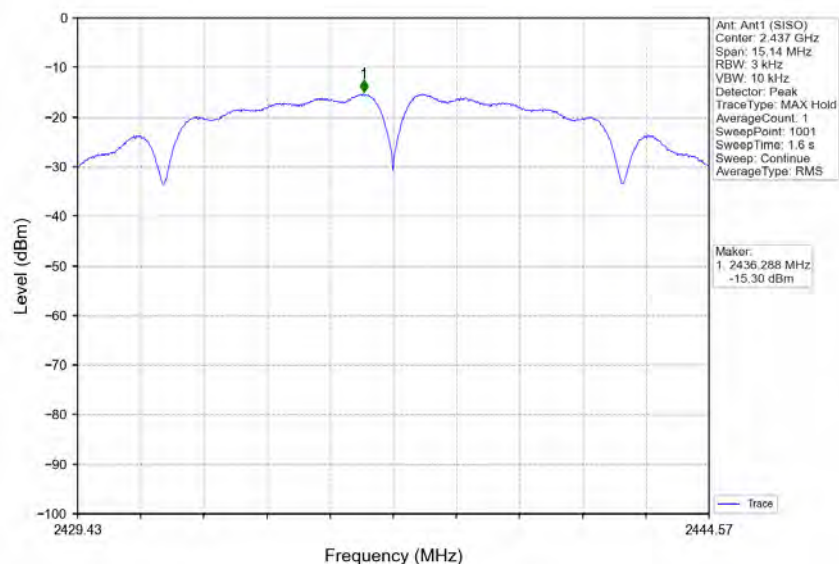
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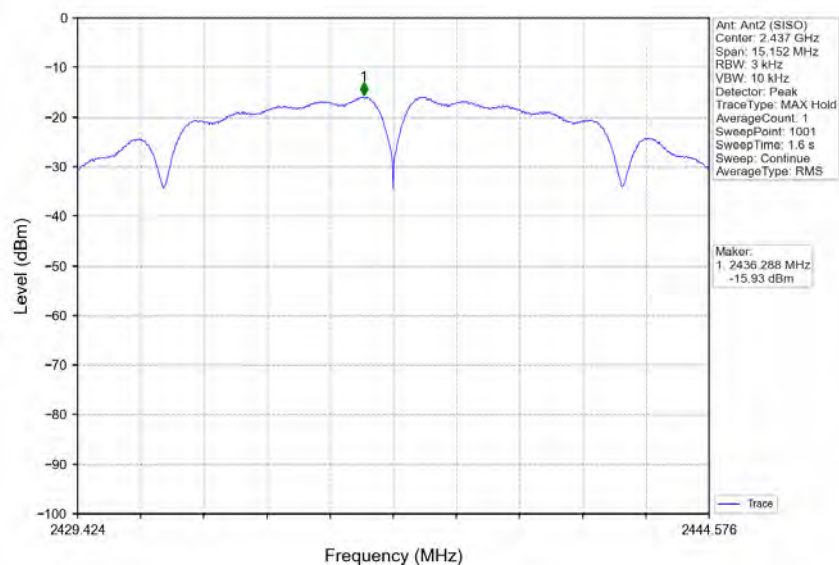
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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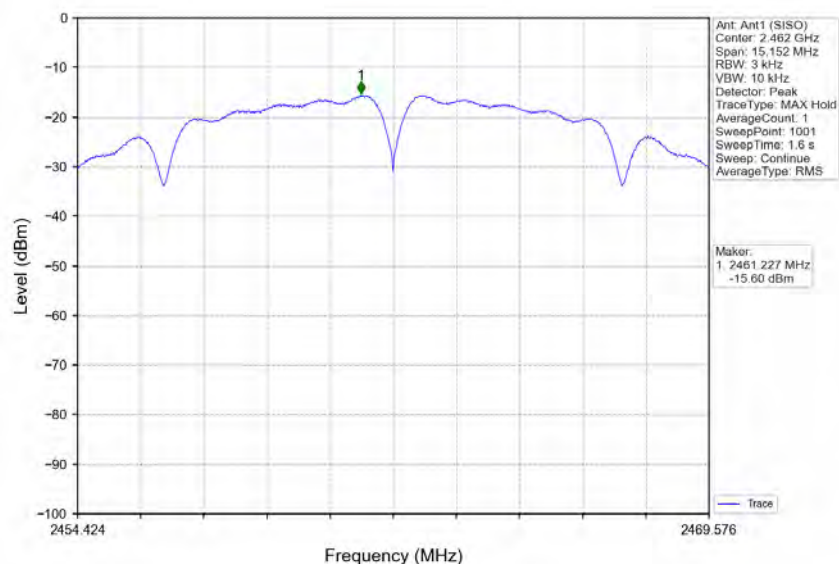
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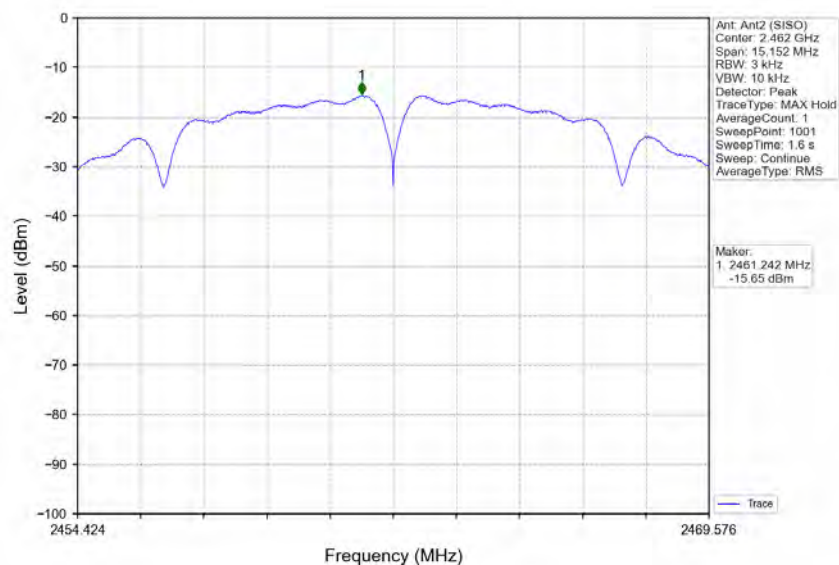
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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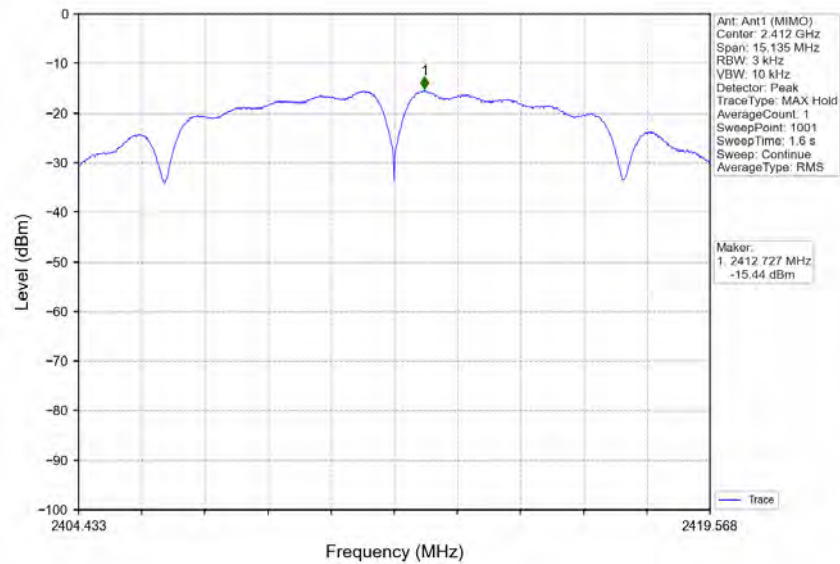
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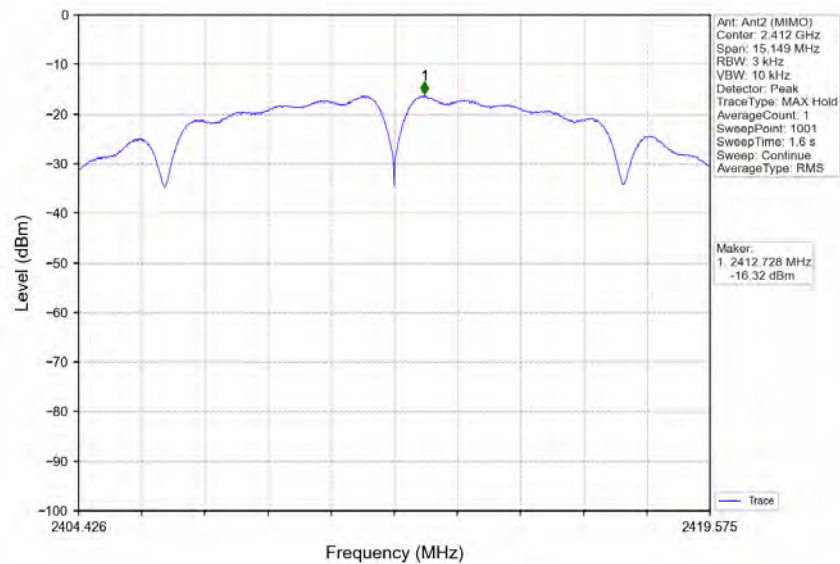
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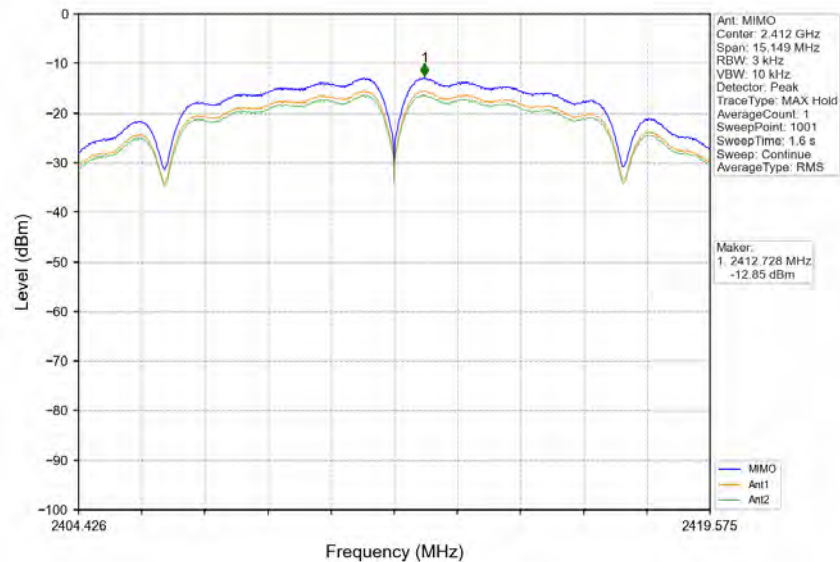
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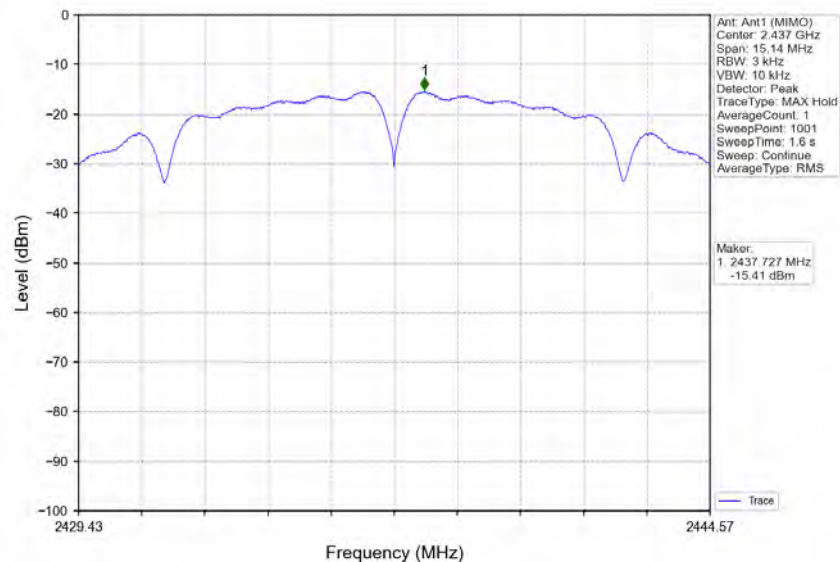
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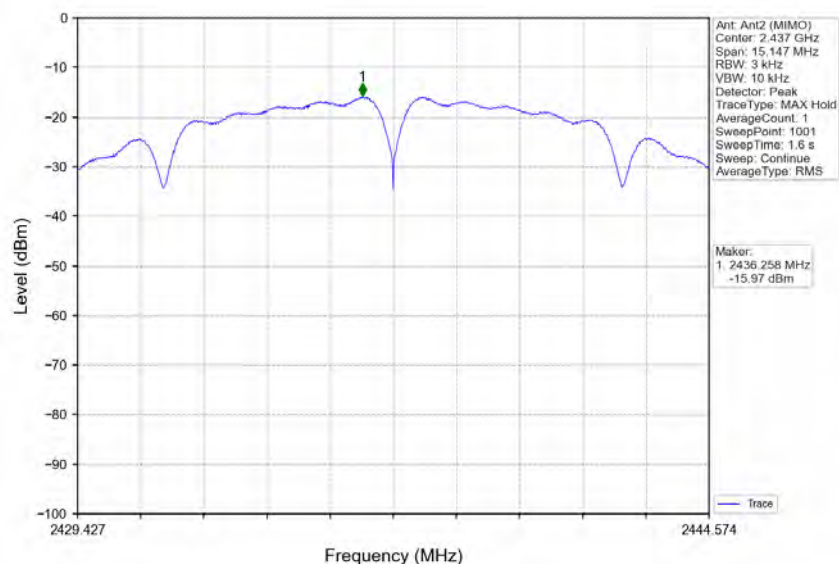
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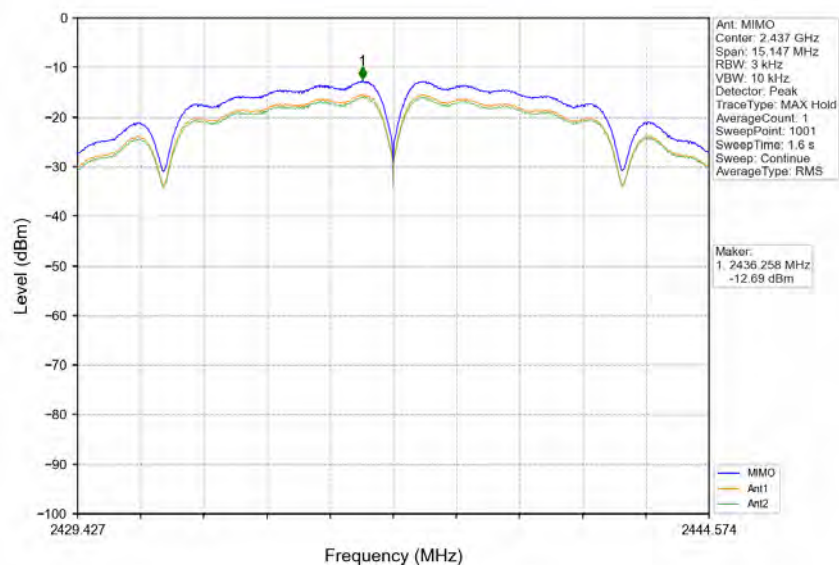
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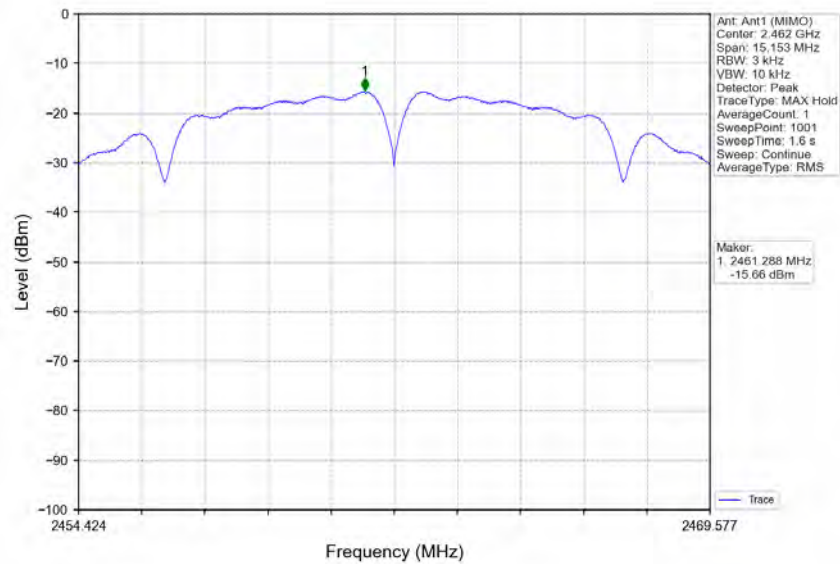
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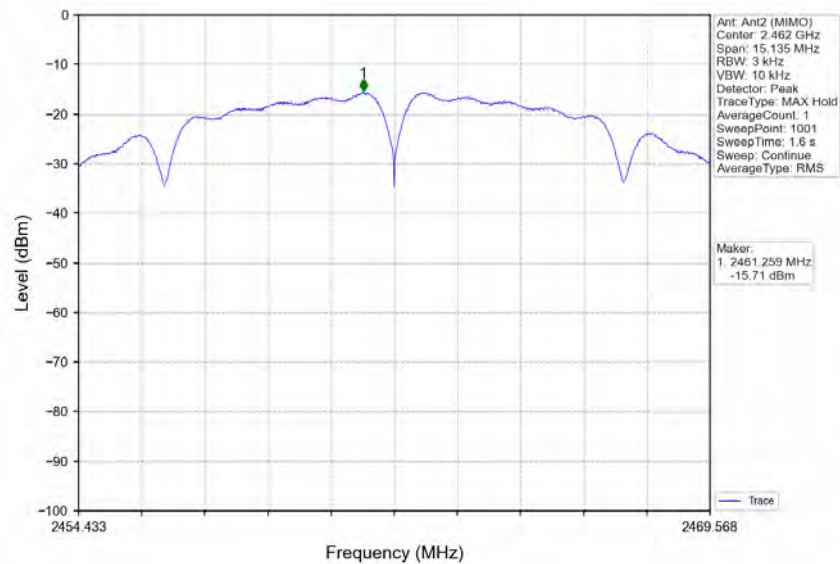
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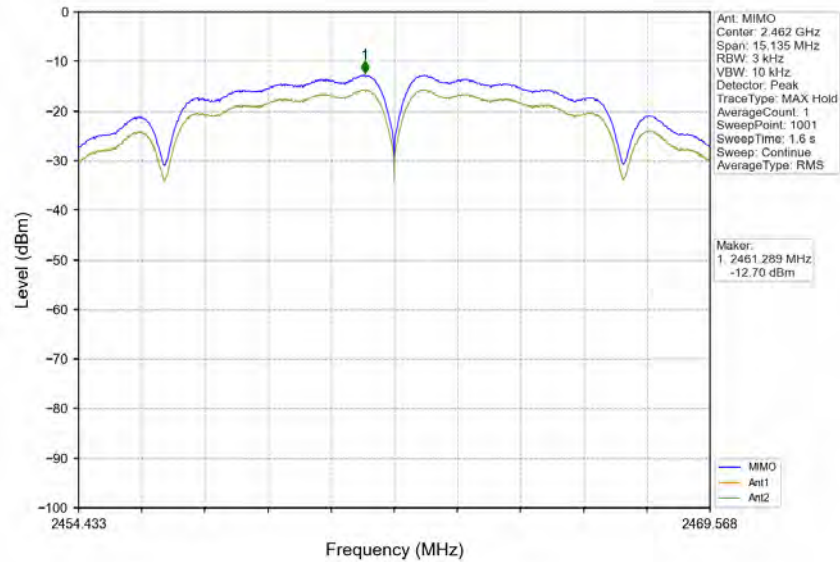
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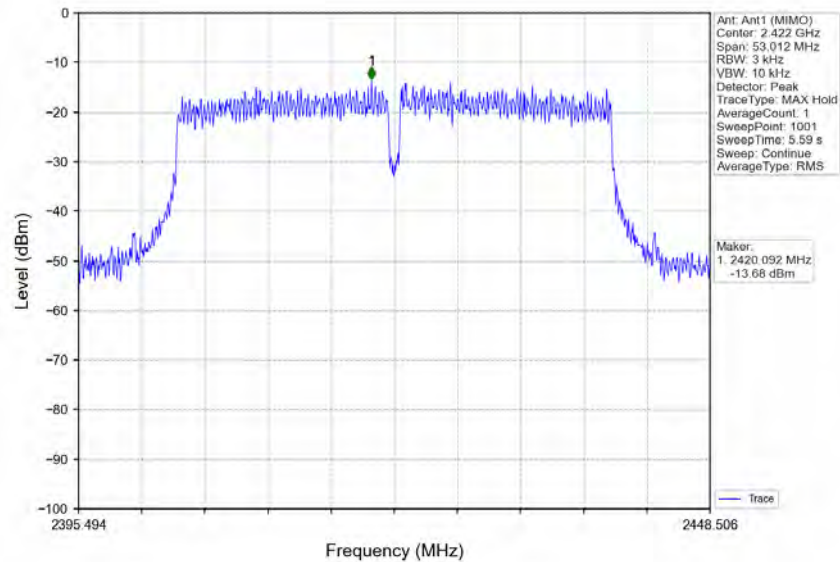
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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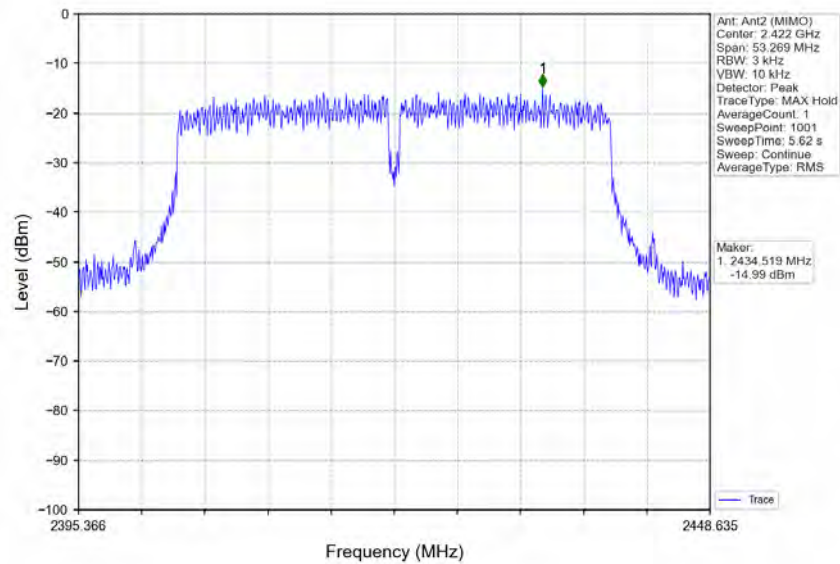
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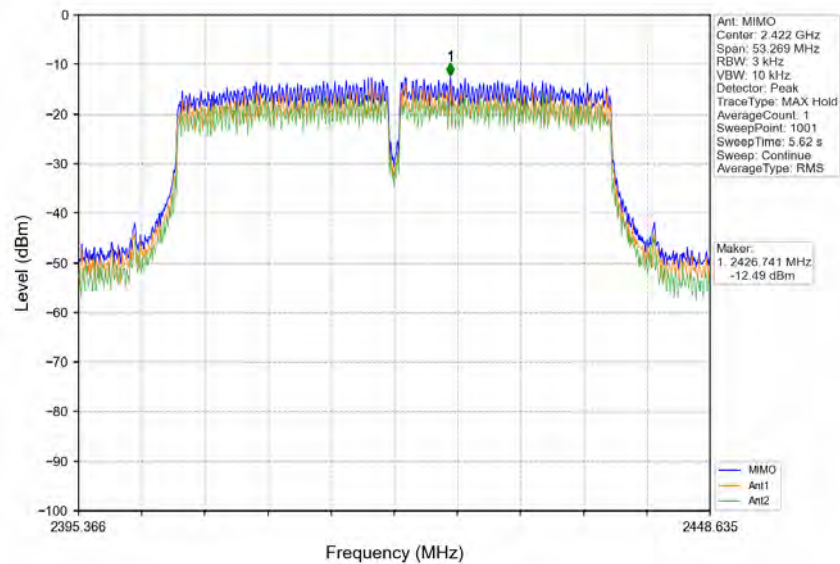
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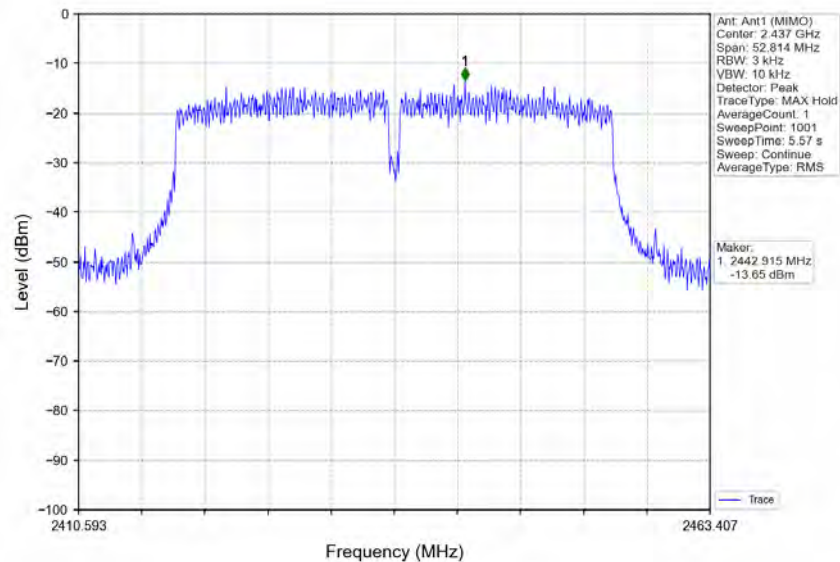
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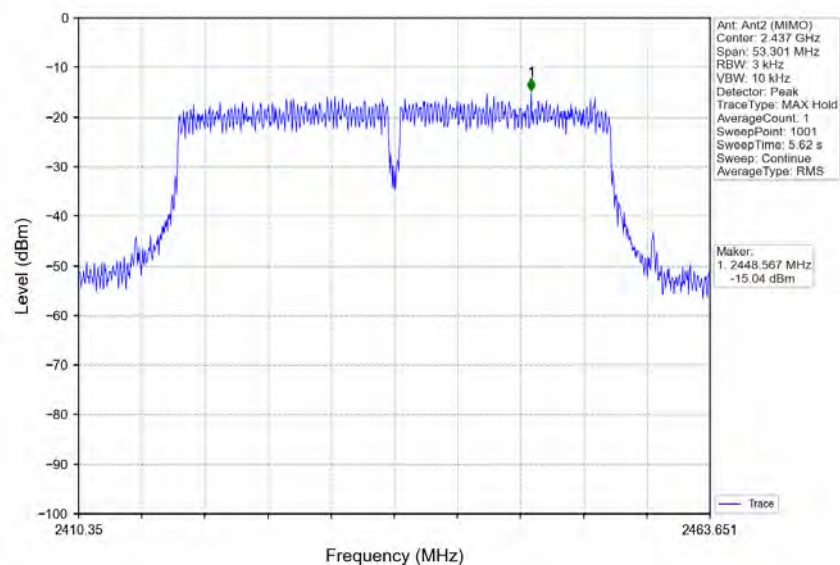
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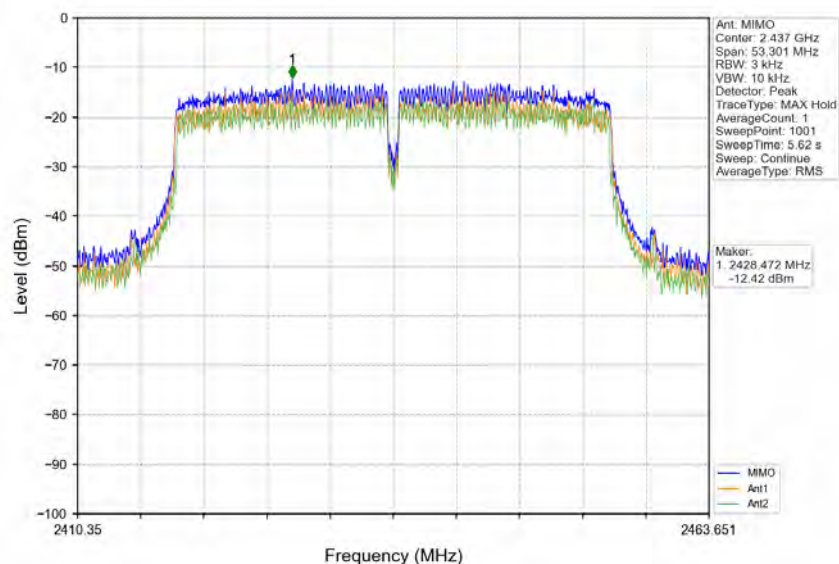


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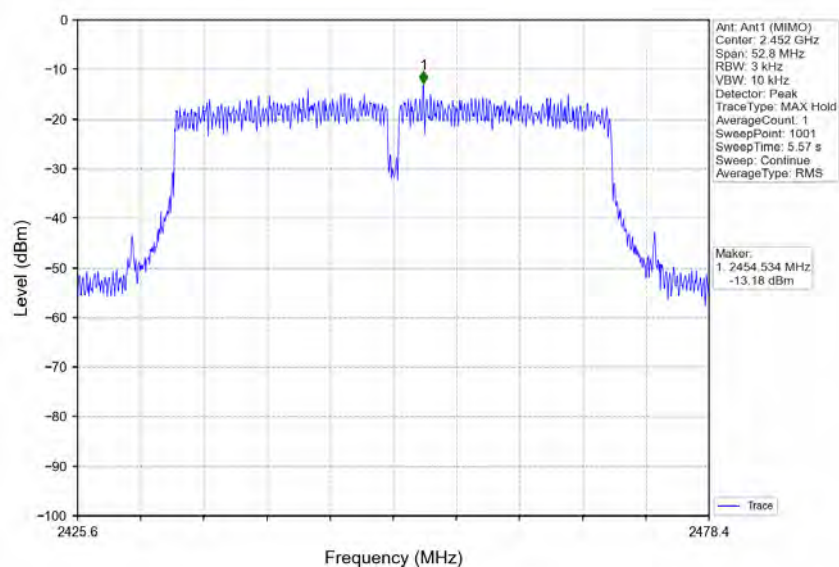
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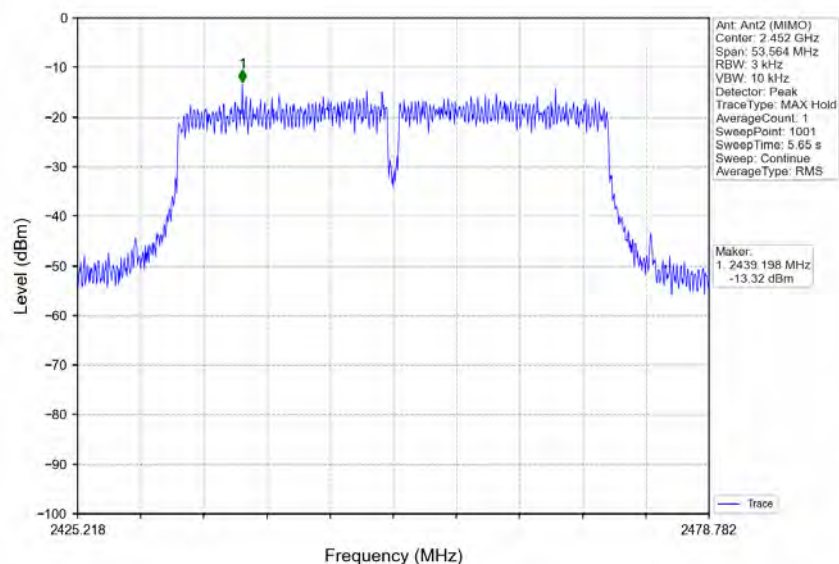
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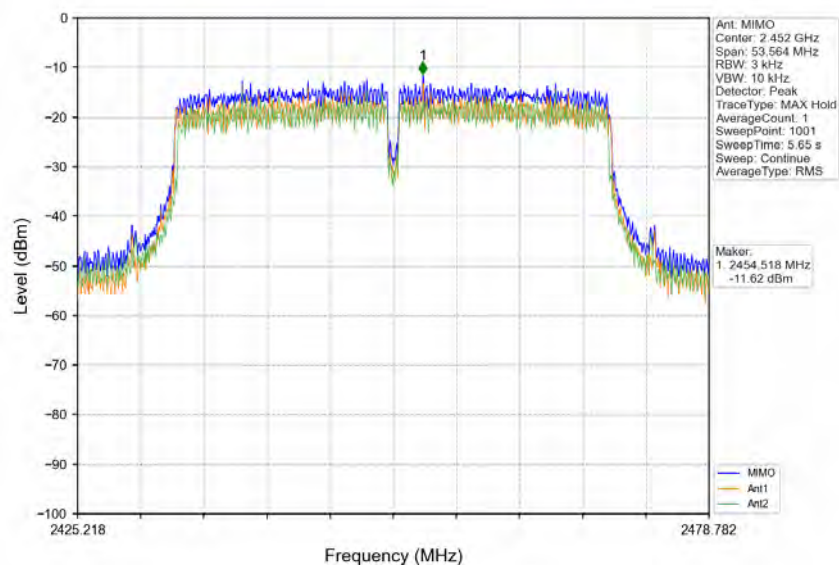
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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	3.57
			2	2.74
		2437	1	3.65
			2	3.99
		2462	1	3.34
			2	4.18
802.11g	SISO	2412	1	4.36
			2	3.44
		2437	1	4.44
			2	3.82
		2462	1	4.15
			2	4.08
802.11n (HT20)	MIMO	2412	1	4.25
			2	3.41
		2437	1	4.31
			2	3.80
		2462	1	4.08
			2	4.05
802.11n (HT40)	MIMO	2422	1	0.23
			2	-0.64
		2437	1	0.41
			2	-0.30
		2452	1	0.40
			2	-0.45

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

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



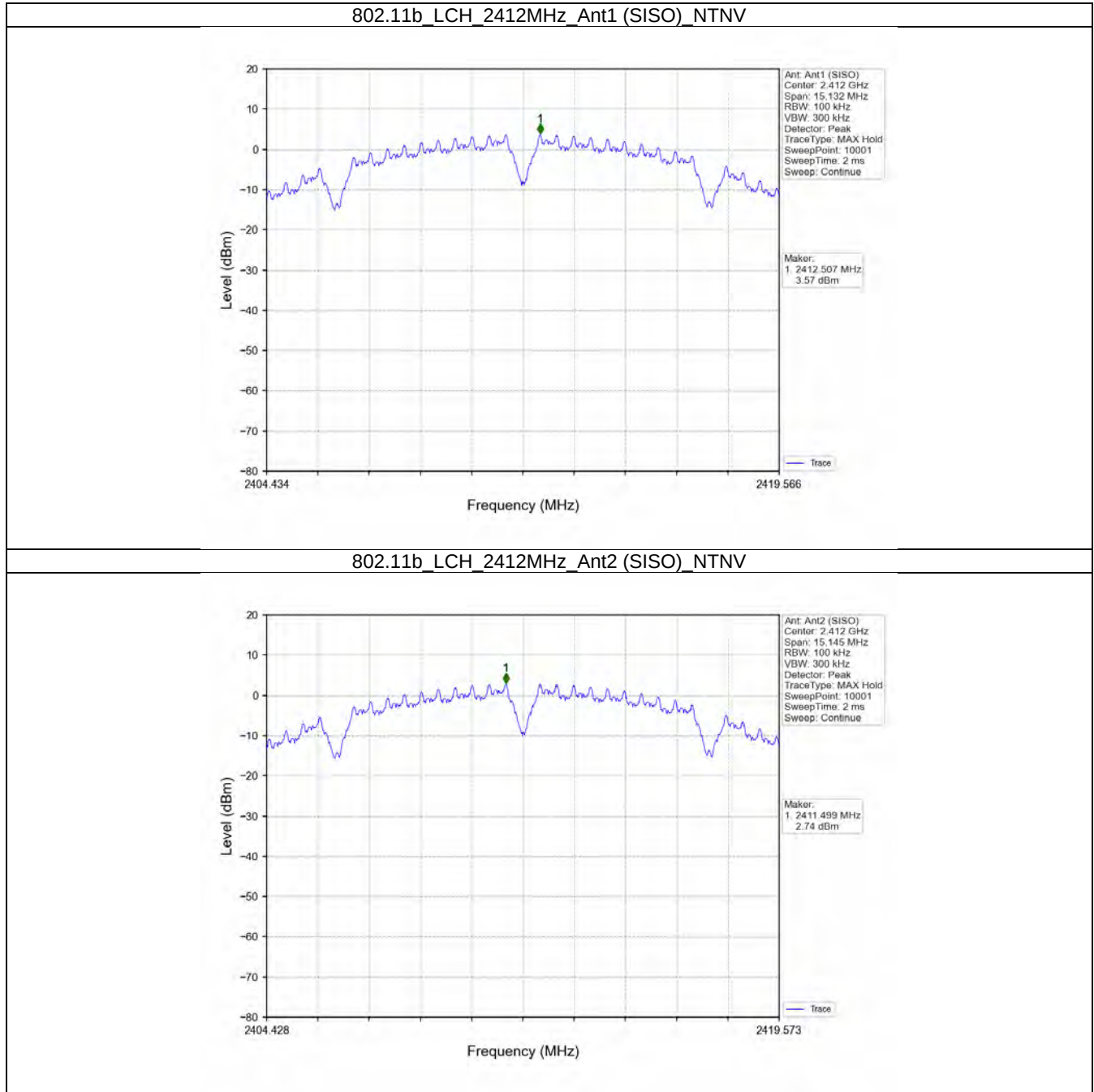
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5.1.2 Test Graph



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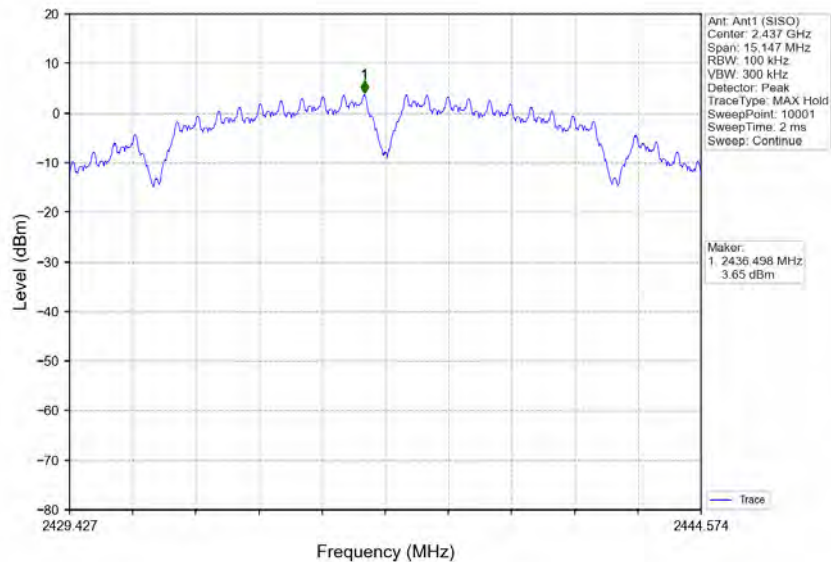
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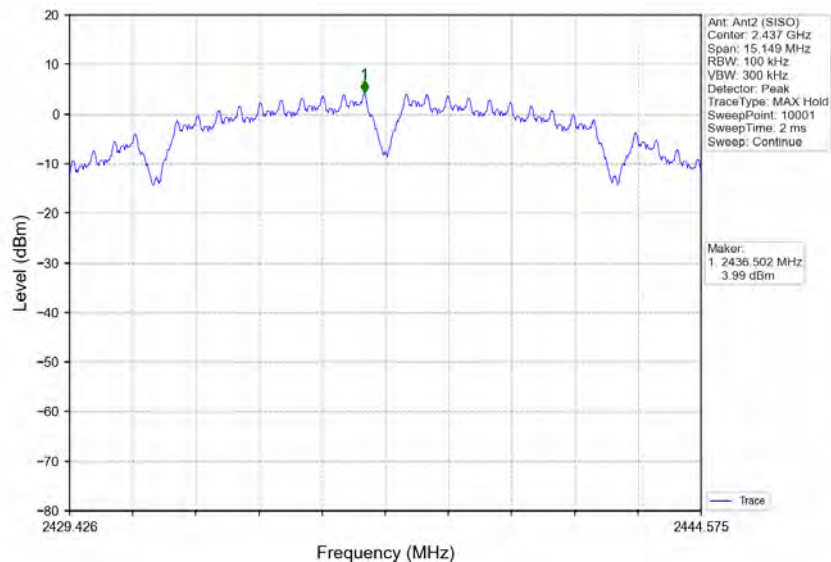
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

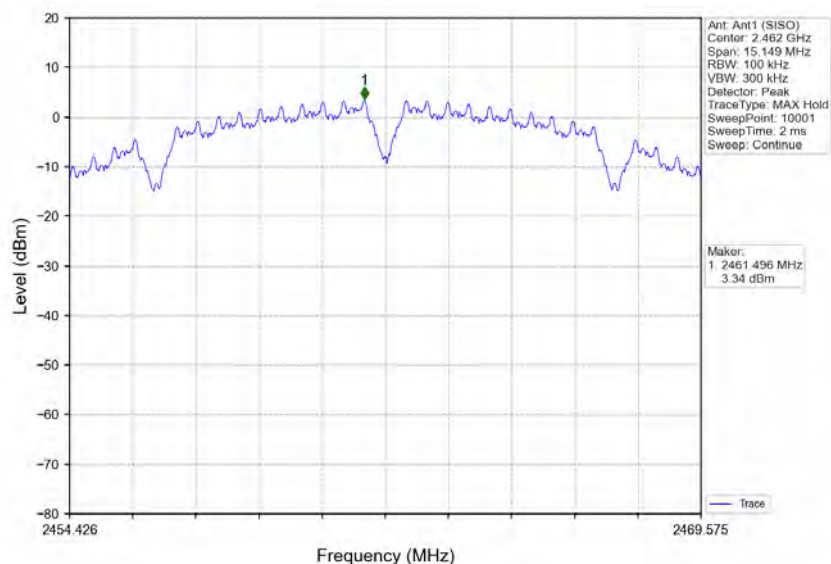


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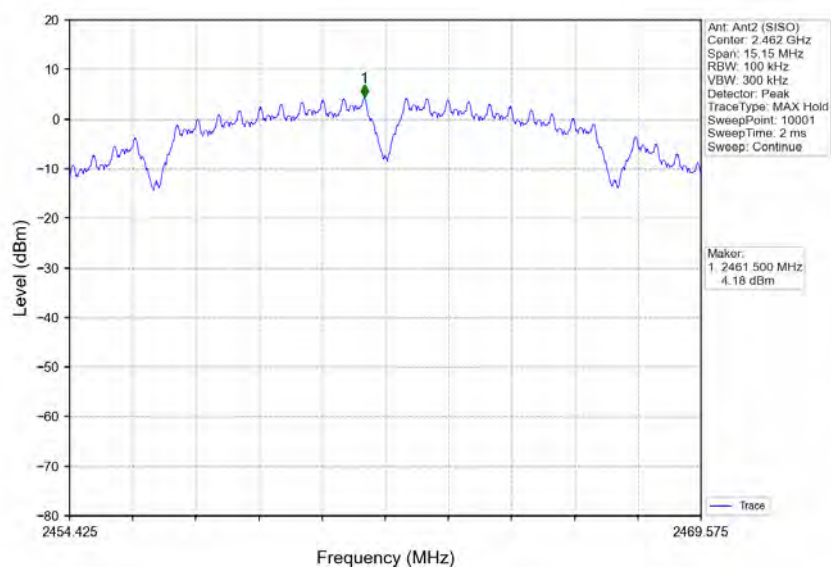
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802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

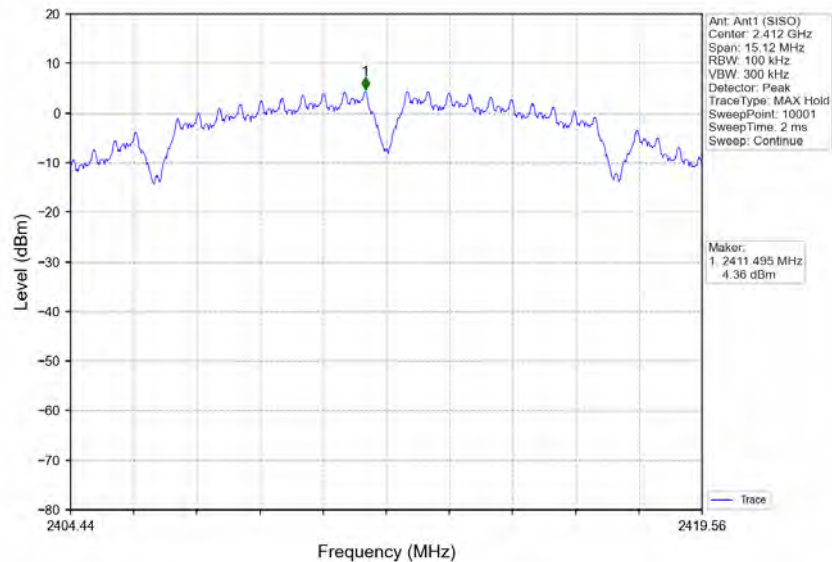


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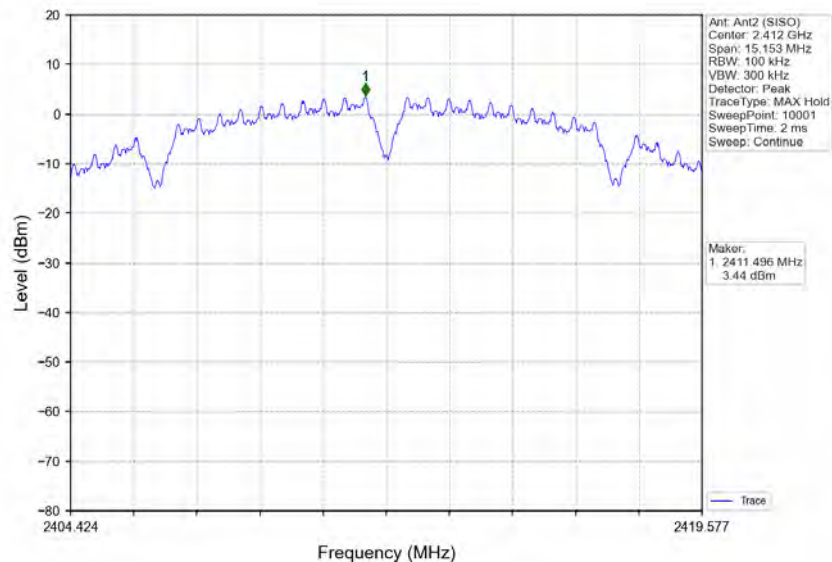
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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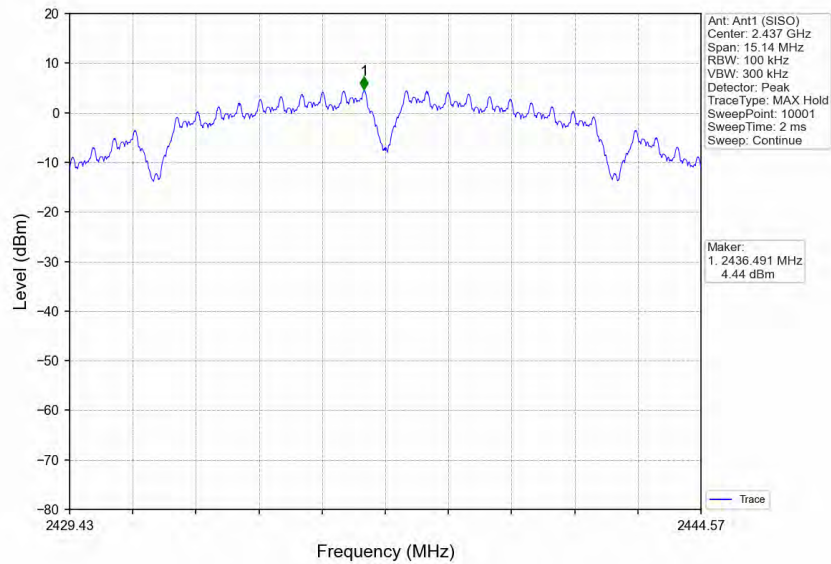
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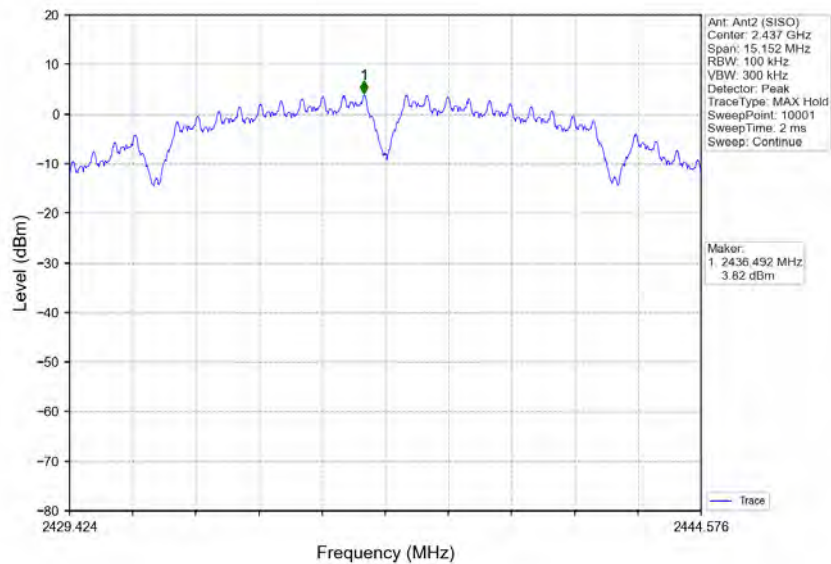
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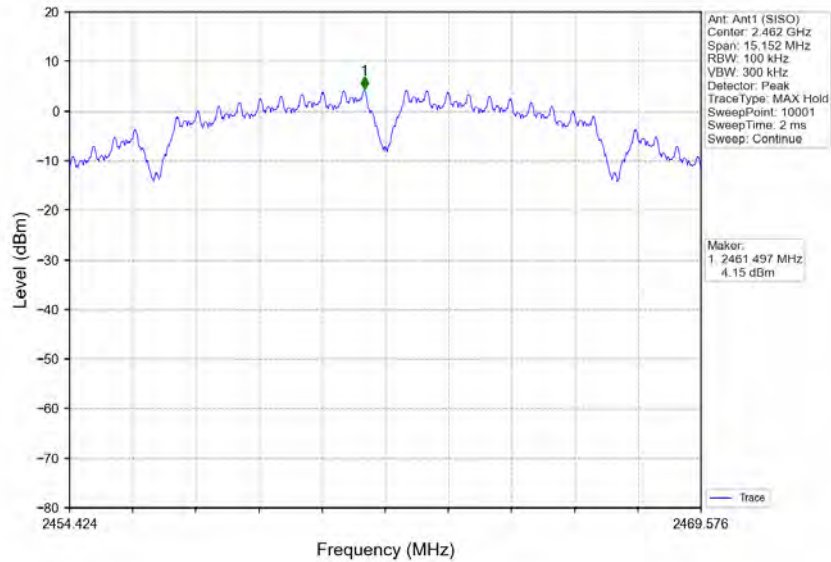
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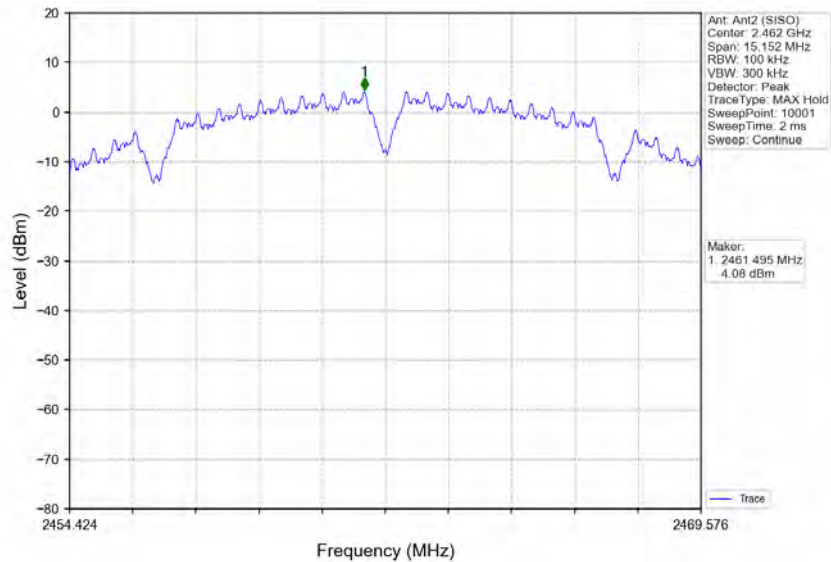
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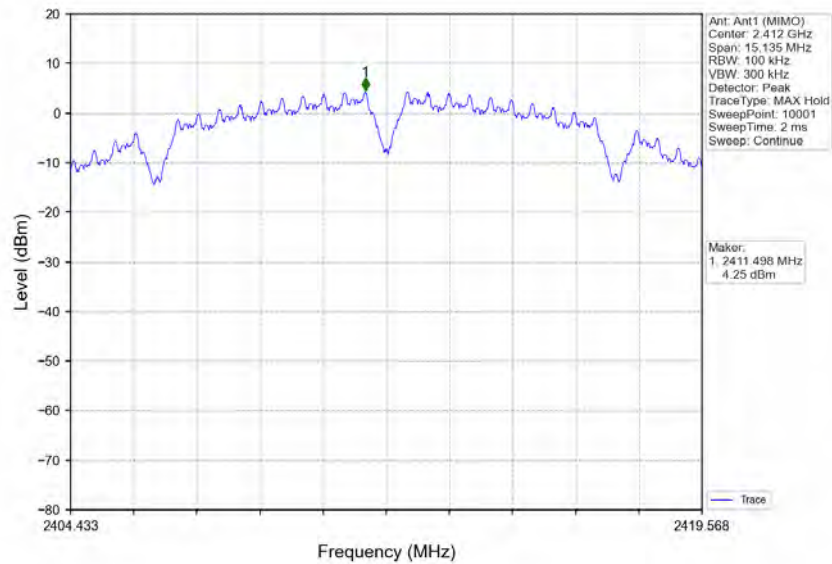
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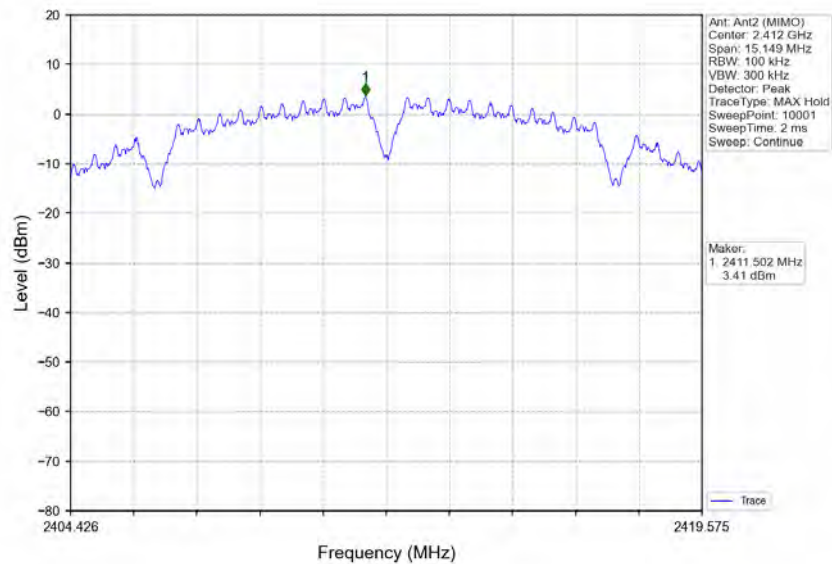
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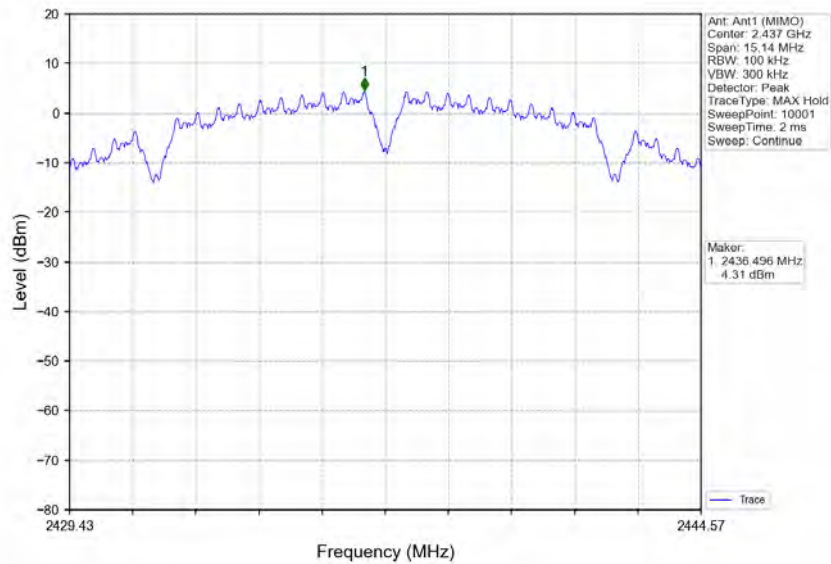
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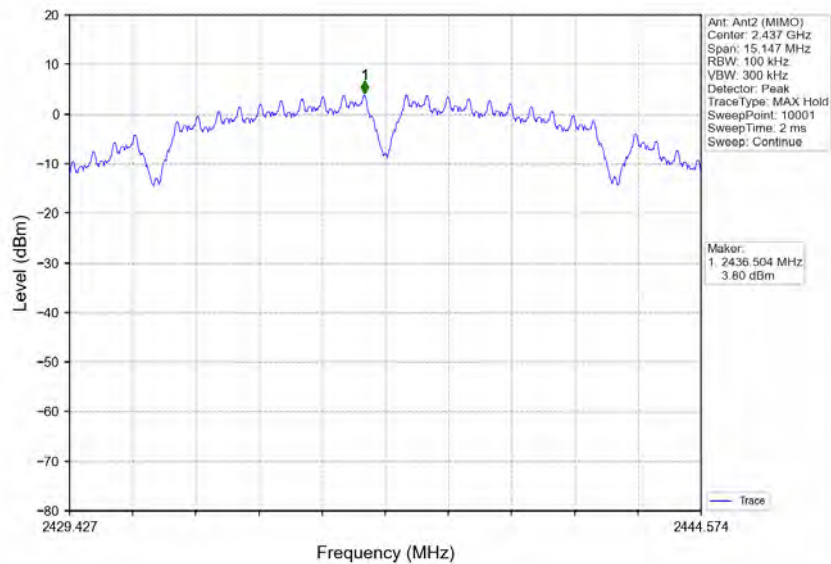
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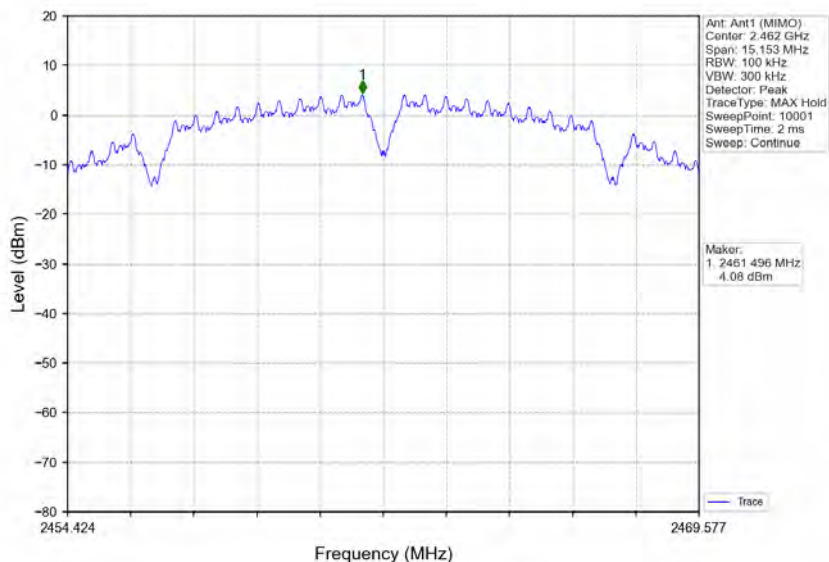
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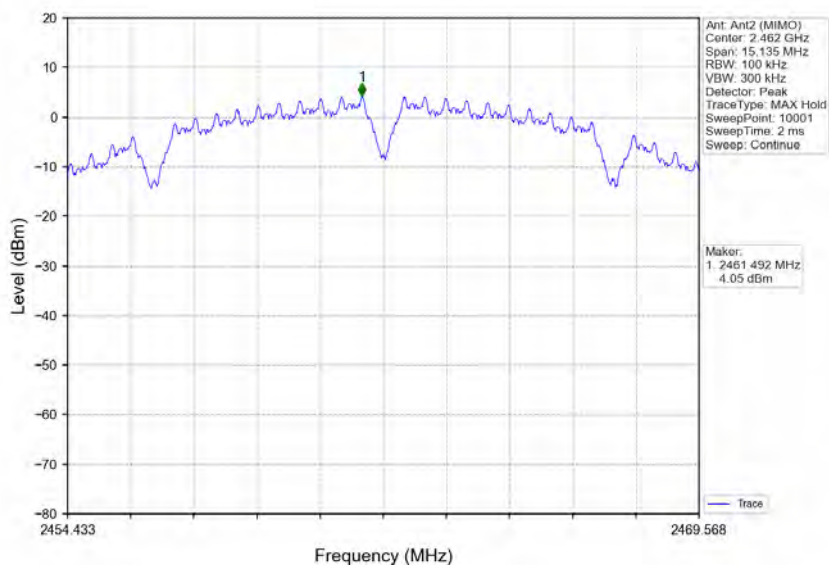
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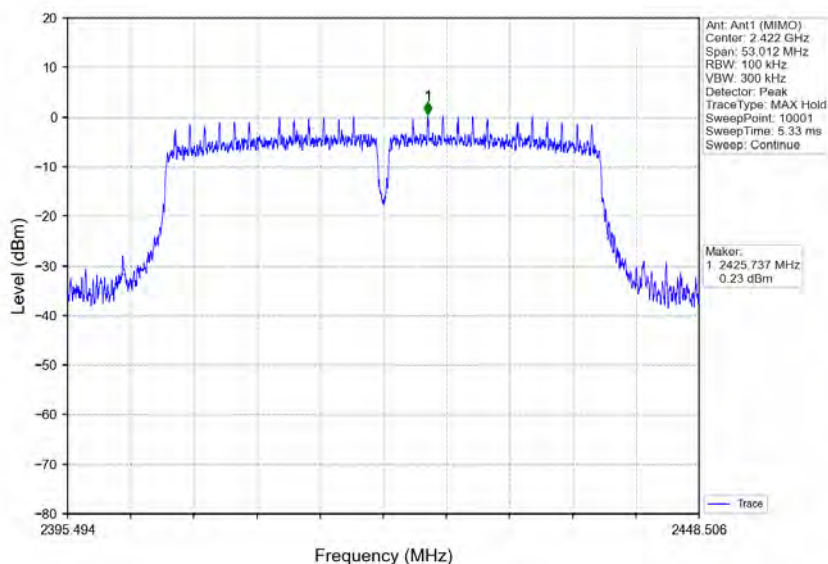
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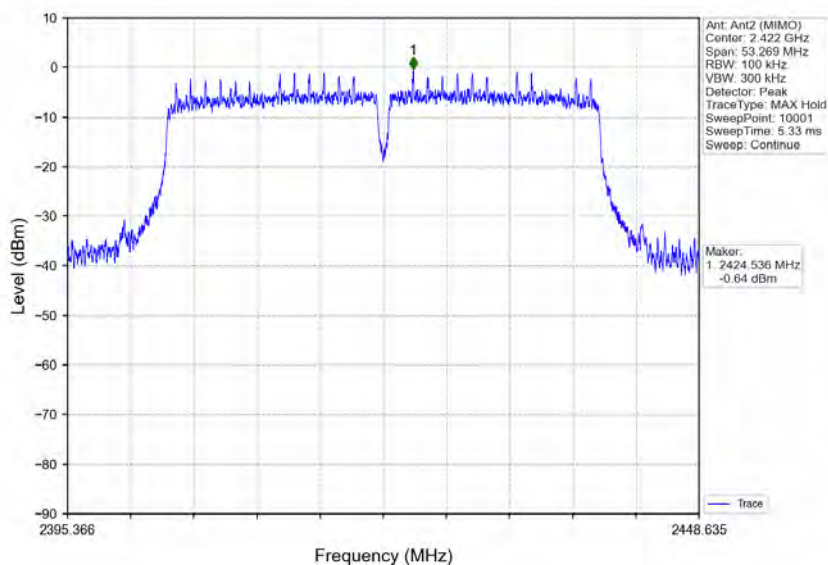
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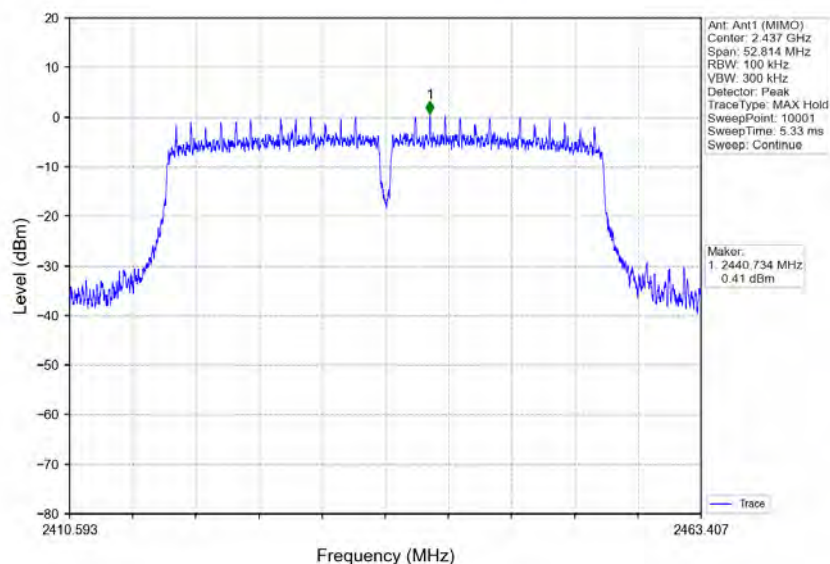
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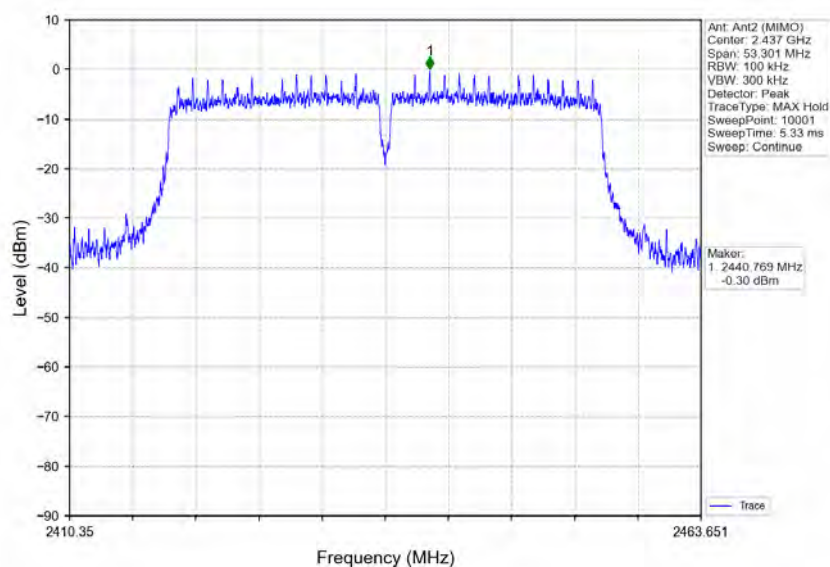
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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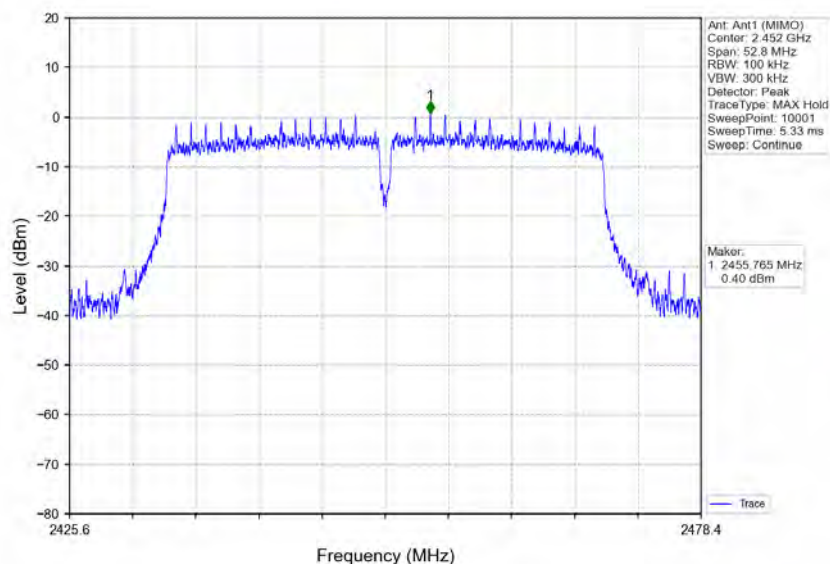
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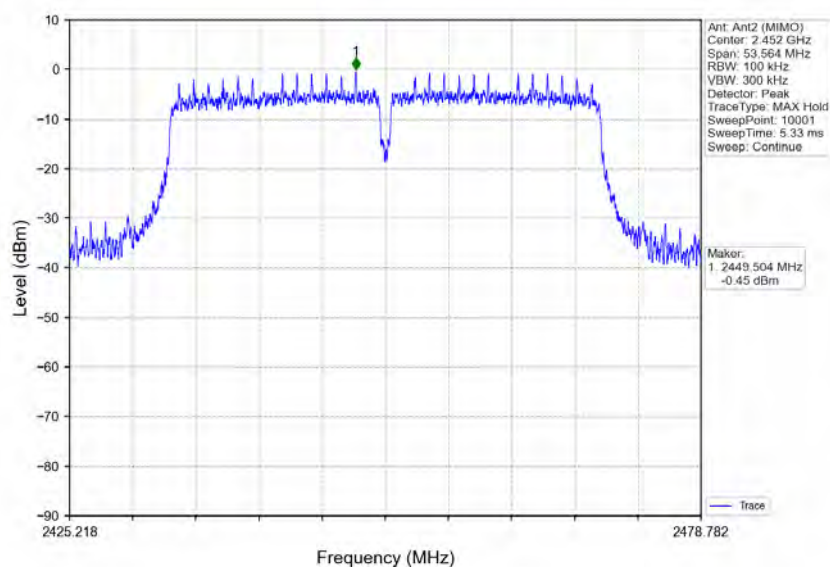
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.65	-26.35	Pass
			2	4.18	-25.82	Pass
		2437	1	3.65	-26.35	Pass
			2	4.18	-25.82	Pass
		2462	1	3.65	-26.35	Pass
			2	4.18	-25.82	Pass
802.11g	SISO	2412	1	4.44	-25.56	Pass
			2	4.08	-25.92	Pass
		2437	1	4.44	-25.56	Pass
			2	4.08	-25.92	Pass
		2462	1	4.44	-25.56	Pass
			2	4.08	-25.92	Pass
802.11n (HT20)	MIMO	2412	1	4.31	-25.69	Pass
			2	4.05	-25.95	Pass
		2437	1	4.31	-25.69	Pass
			2	4.05	-25.95	Pass
		2462	1	4.31	-25.69	Pass
			2	4.05	-25.95	Pass
802.11n (HT40)	MIMO	2422	1	0.41	-29.59	Pass
			2	-0.30	-30.30	Pass
		2437	1	0.41	-29.59	Pass
			2	-0.30	-30.30	Pass
		2452	1	0.41	-29.59	Pass
			2	-0.30	-30.30	Pass

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

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



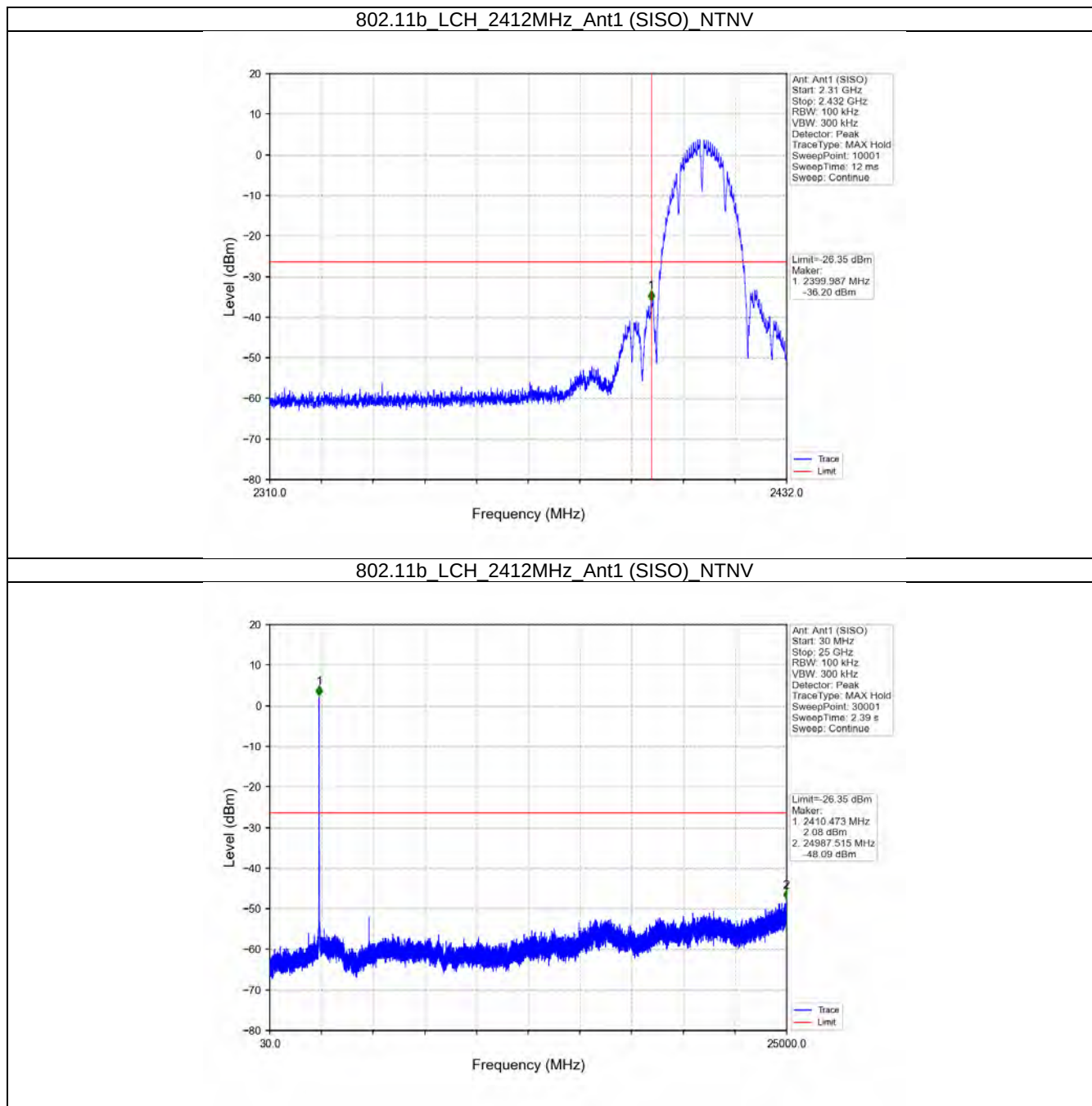
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5.2.2 Test Graph



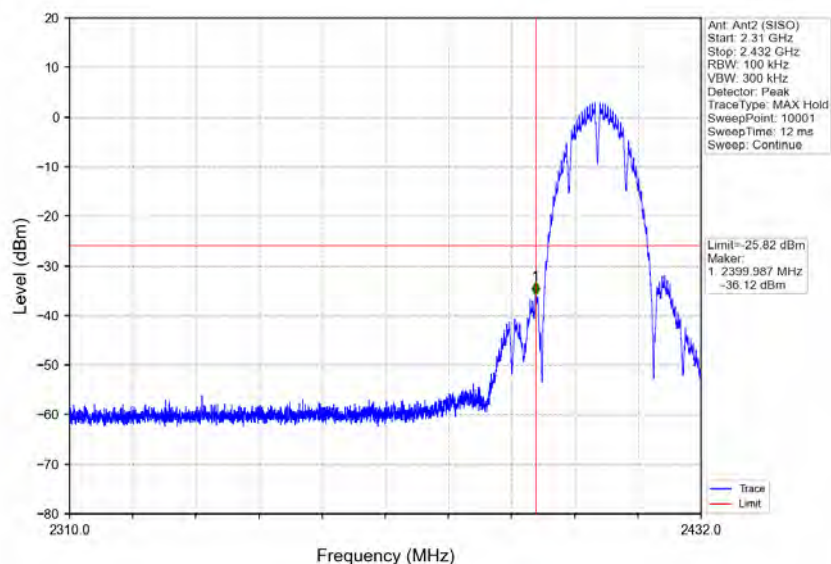
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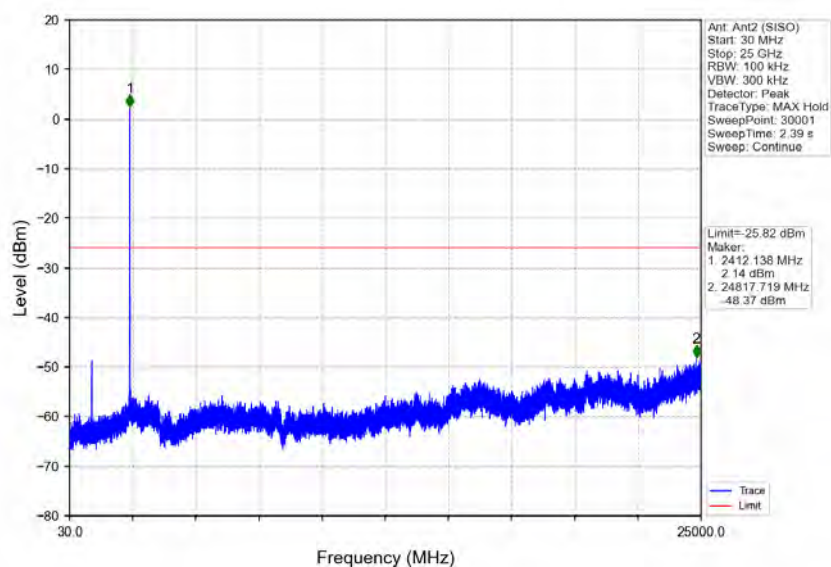
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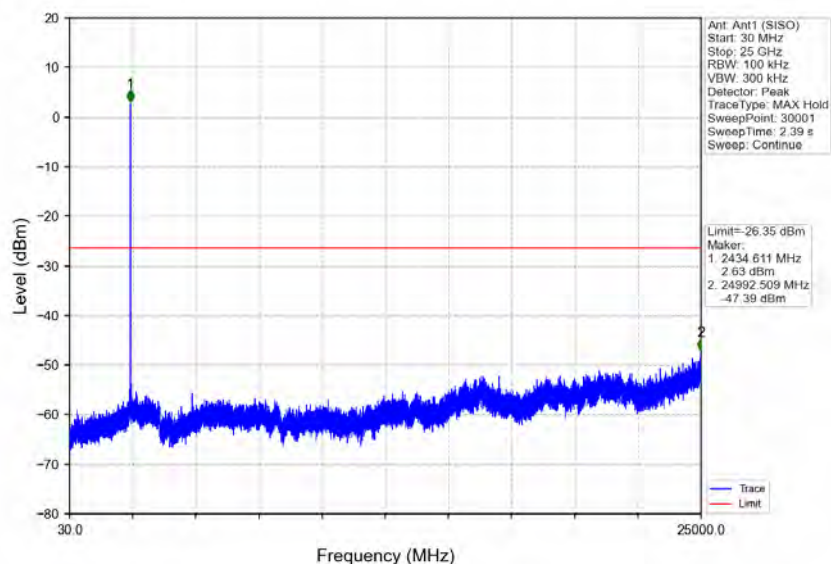
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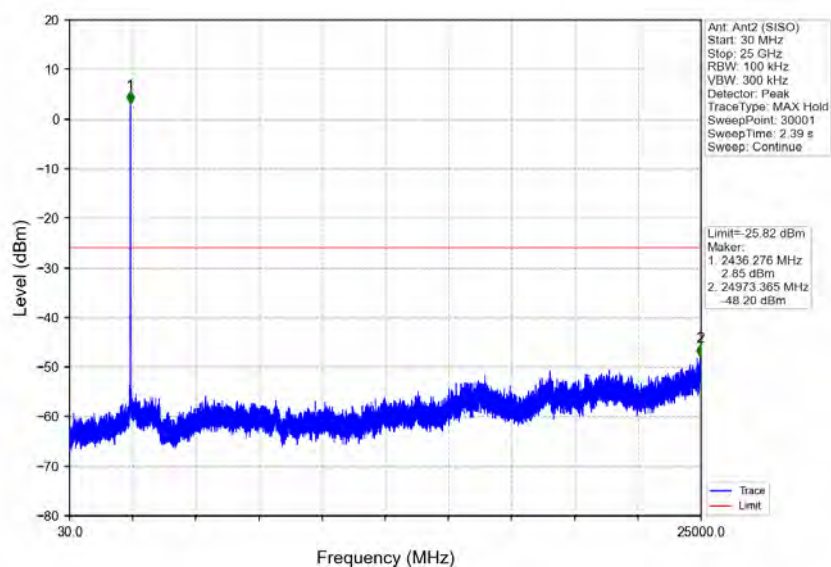
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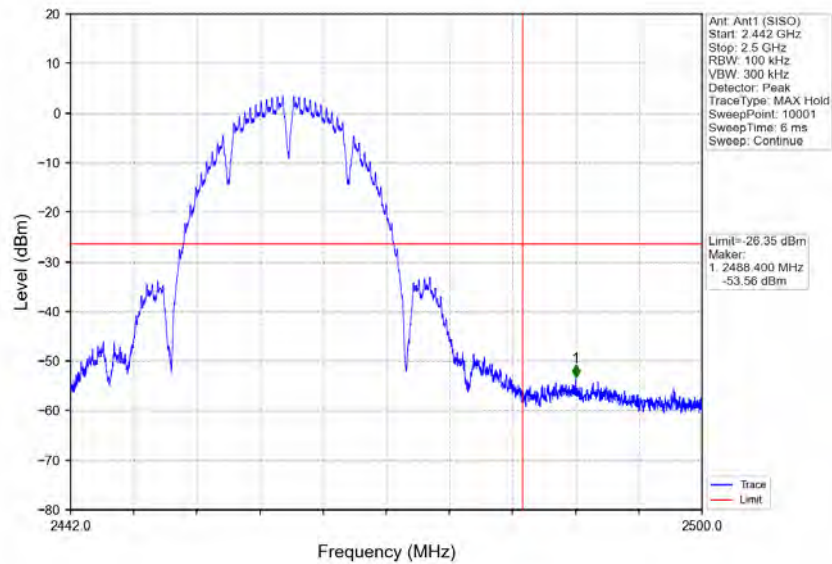
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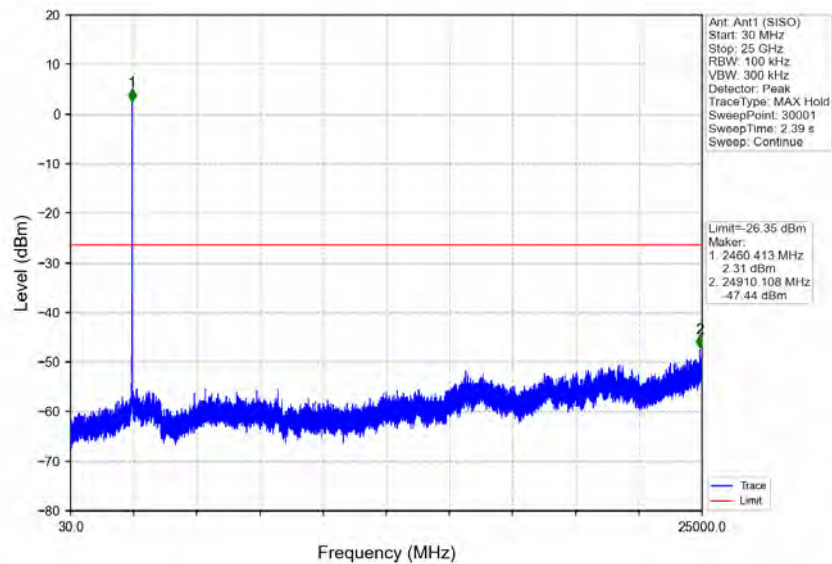
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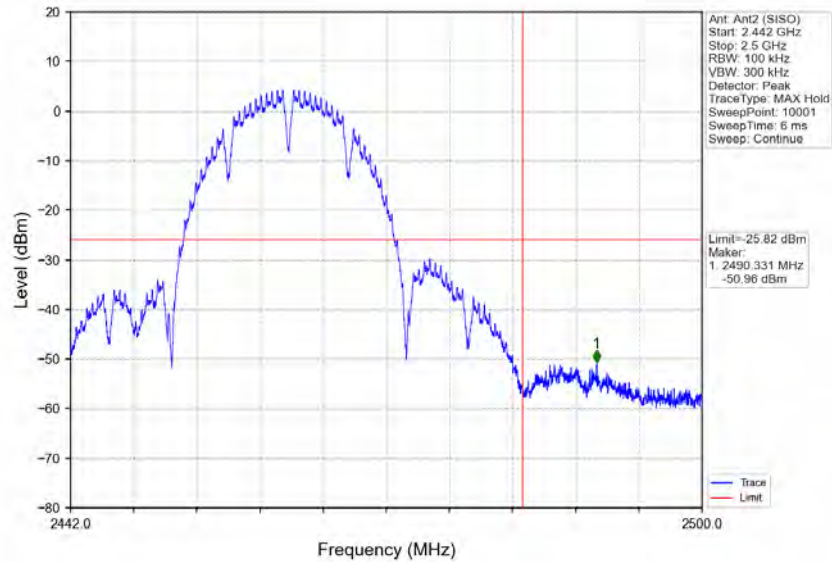


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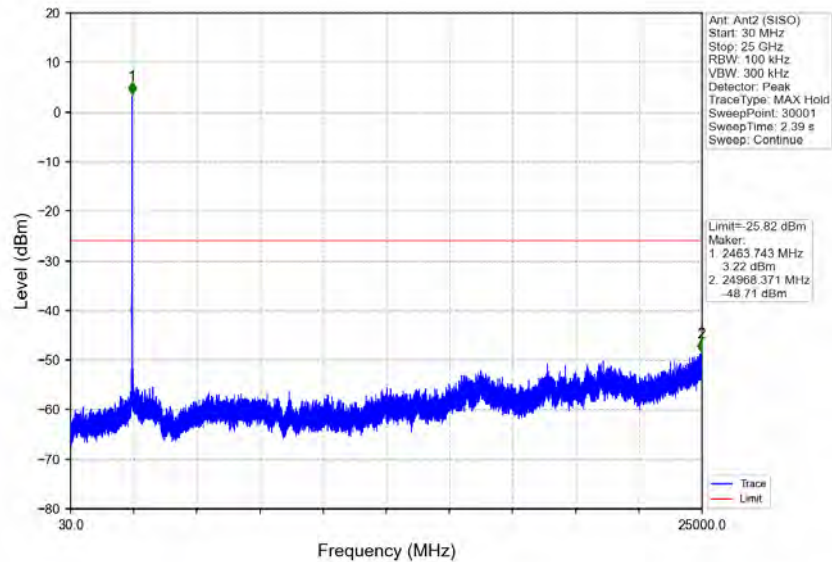
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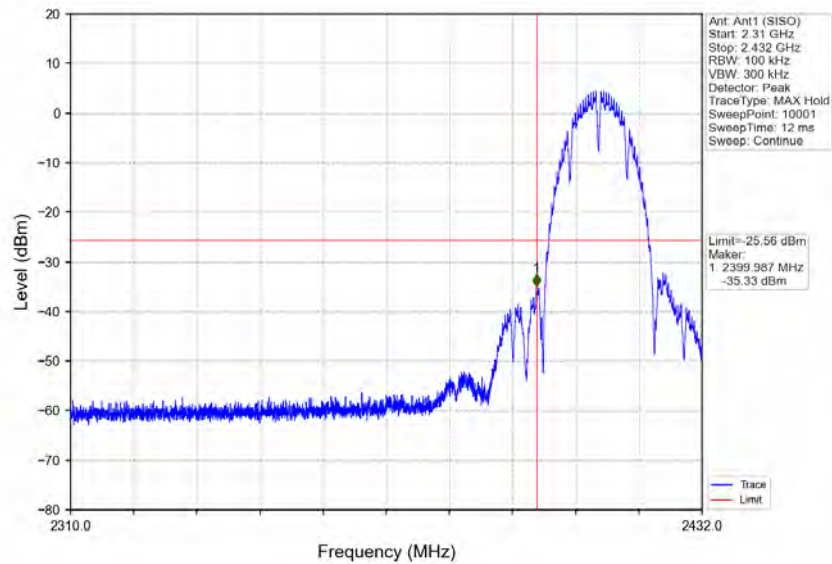
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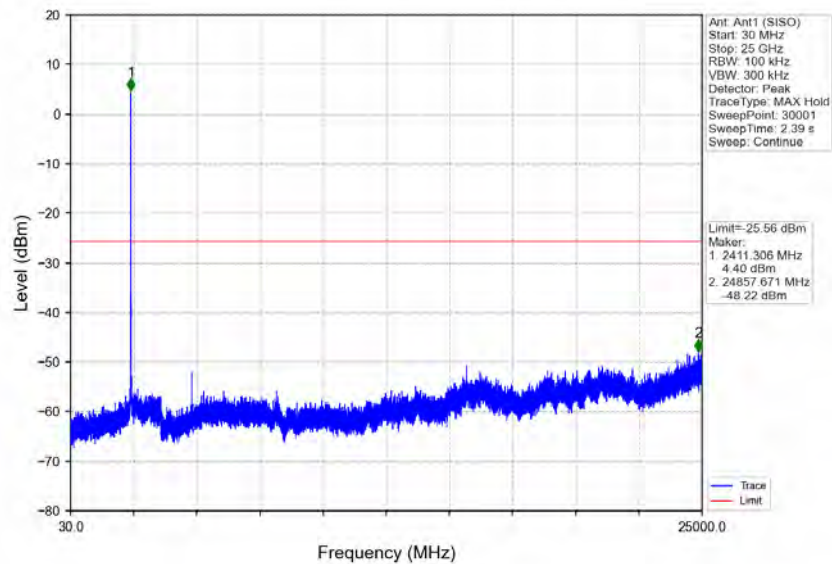
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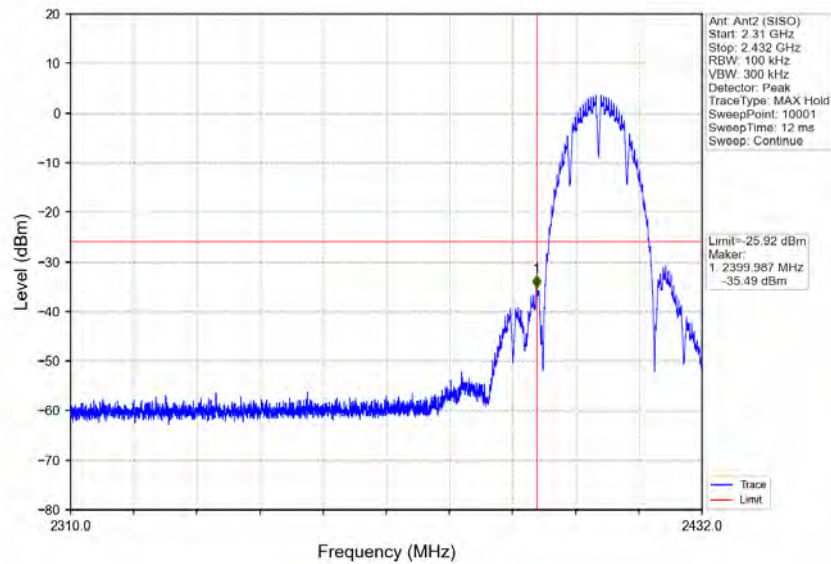
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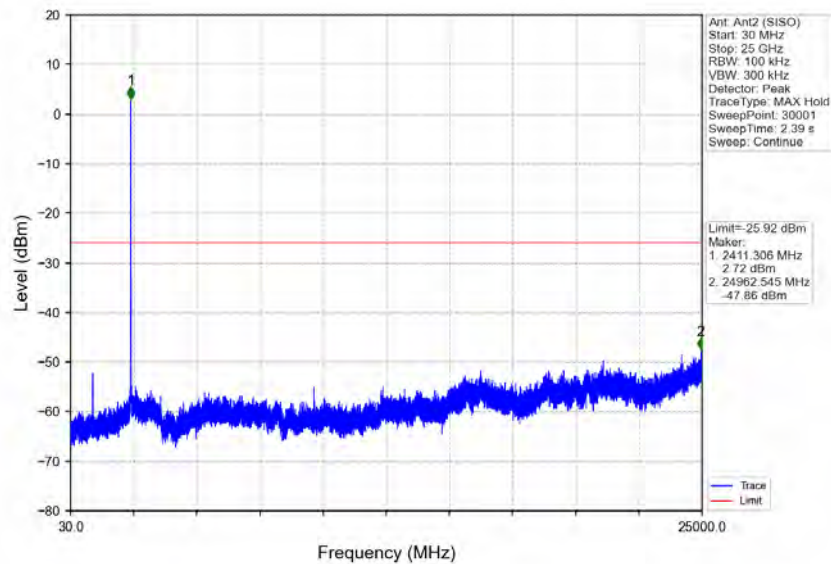
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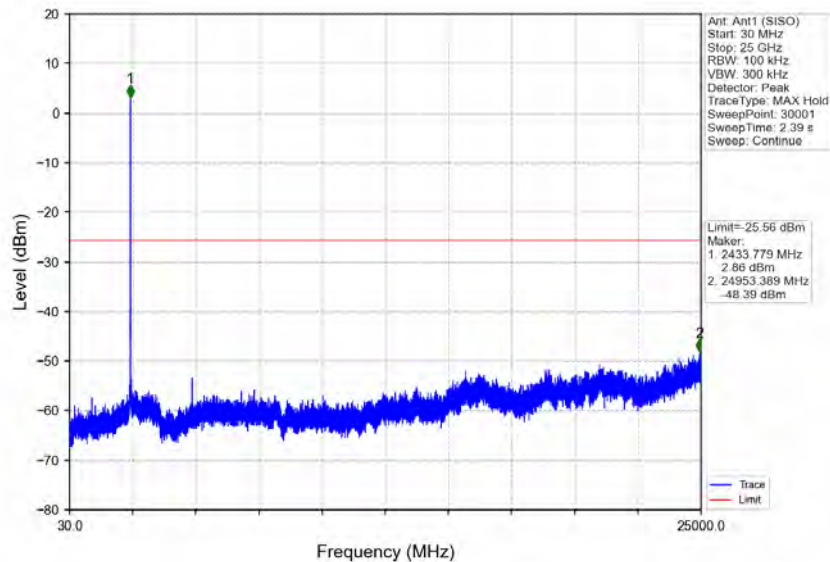


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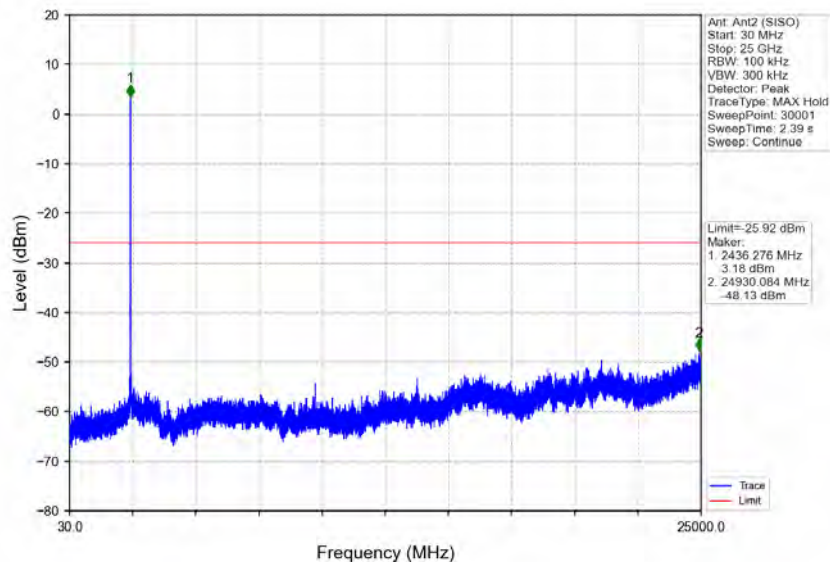
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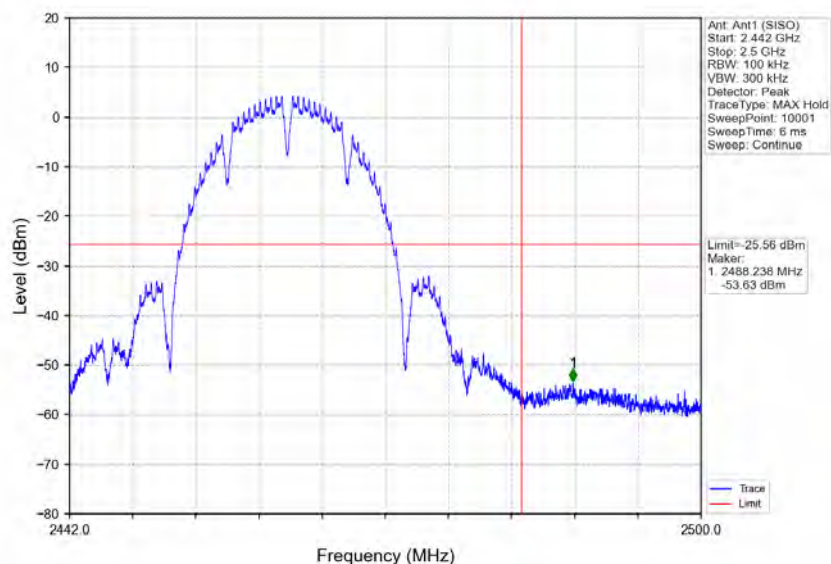
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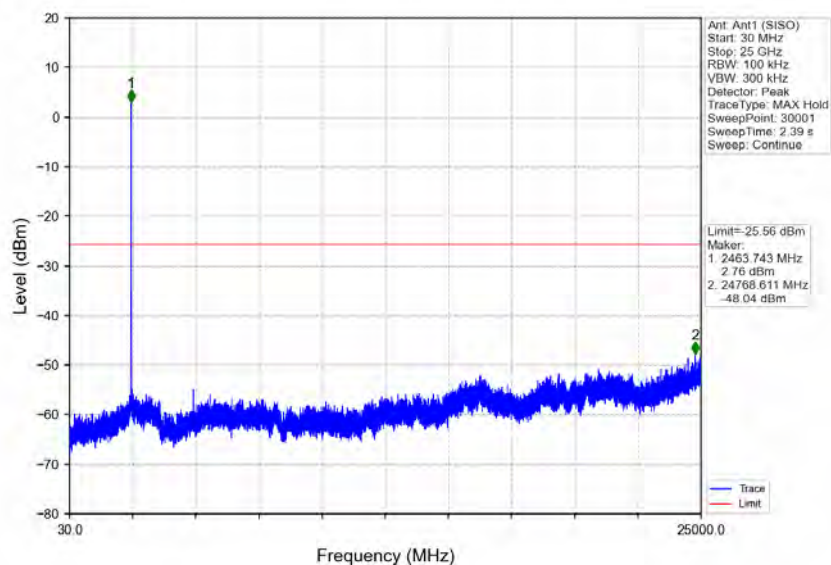
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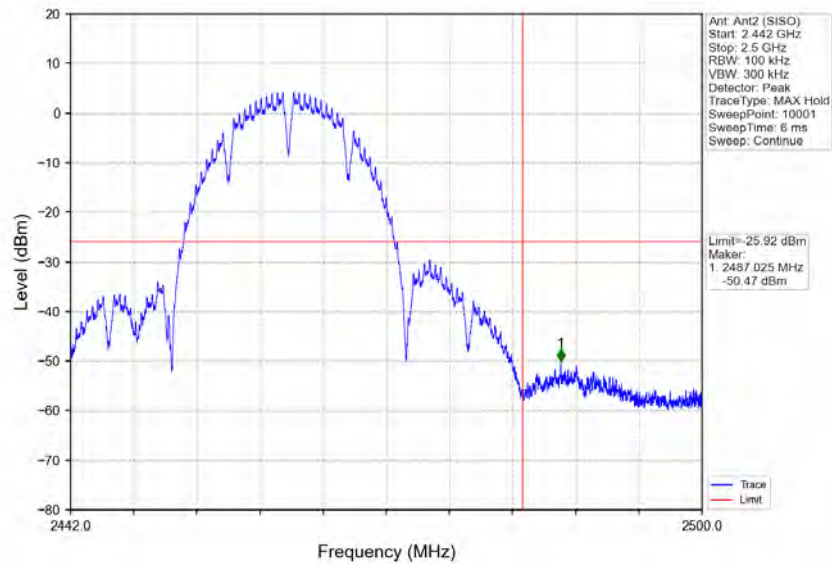
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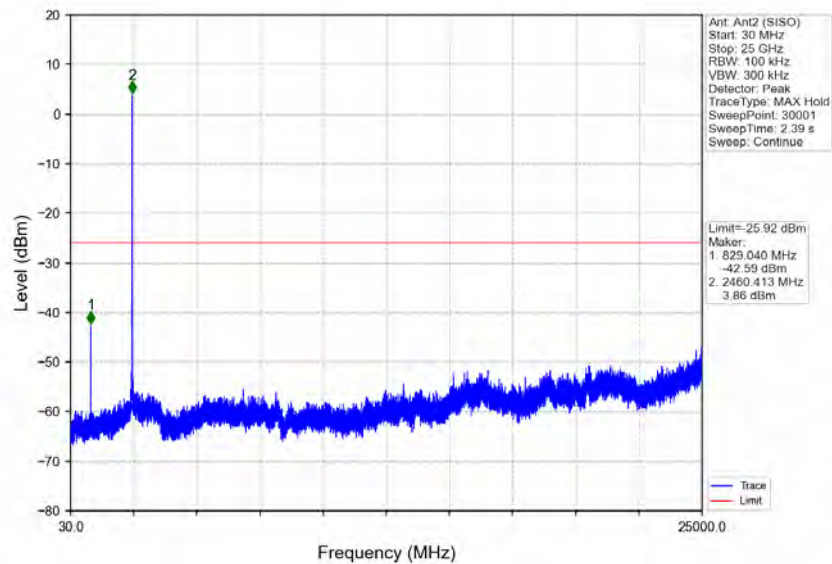
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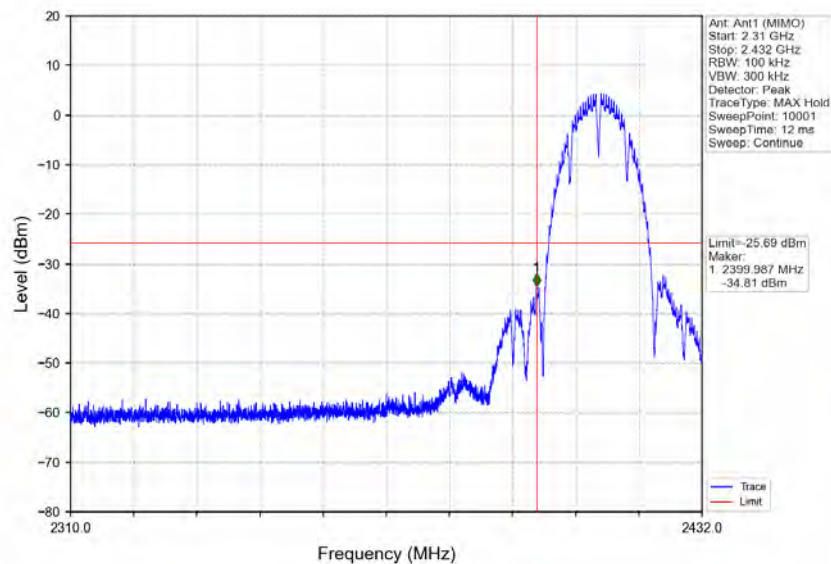
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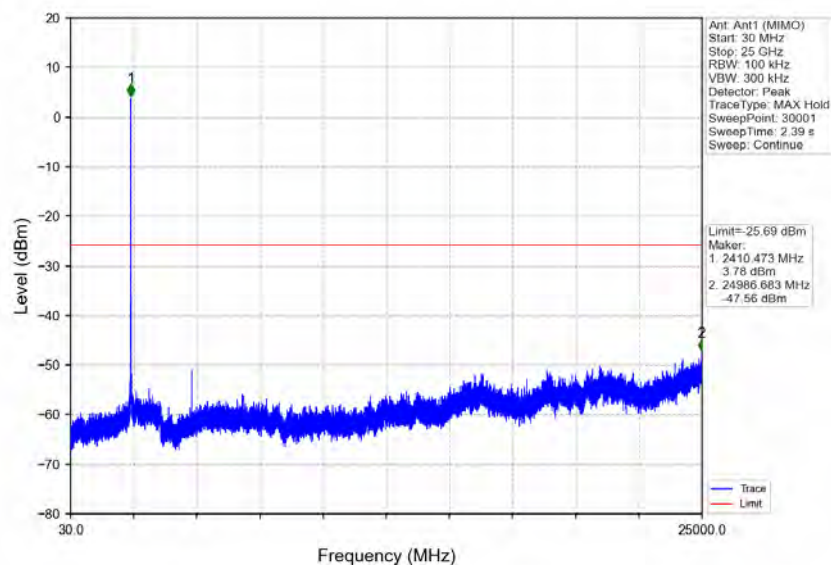
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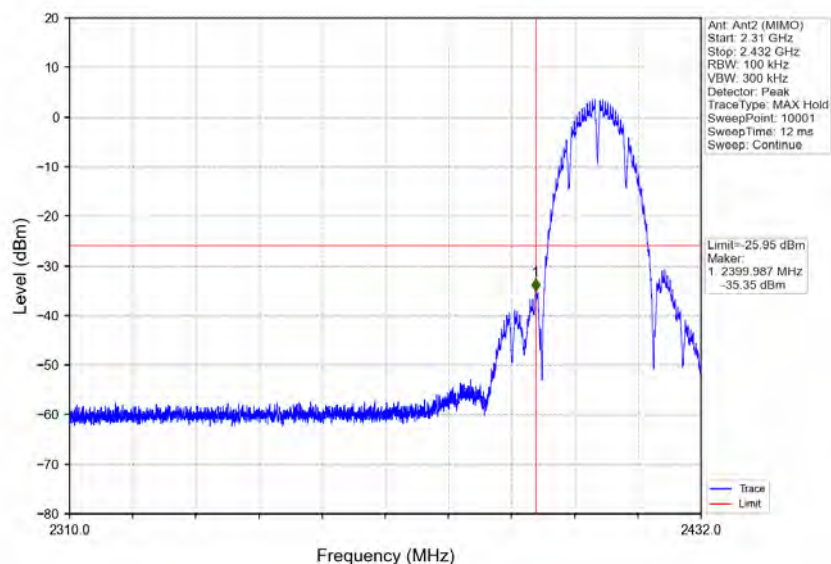
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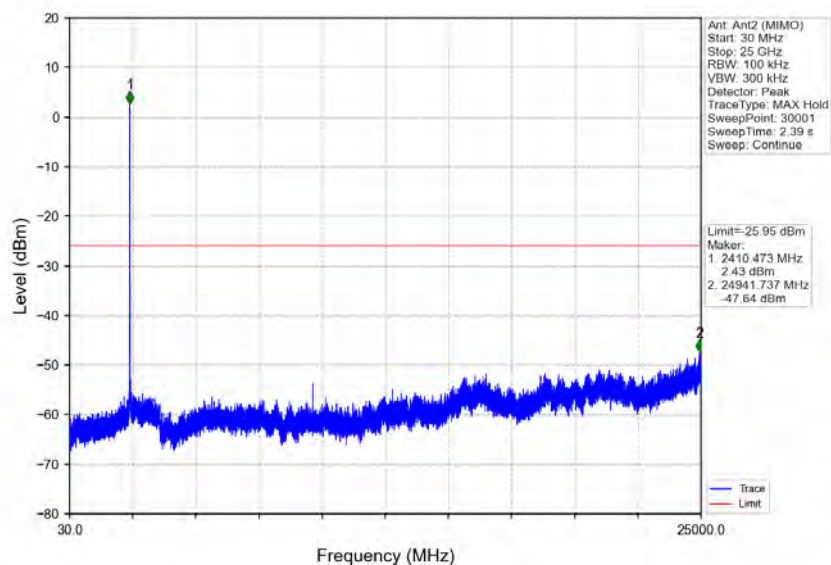
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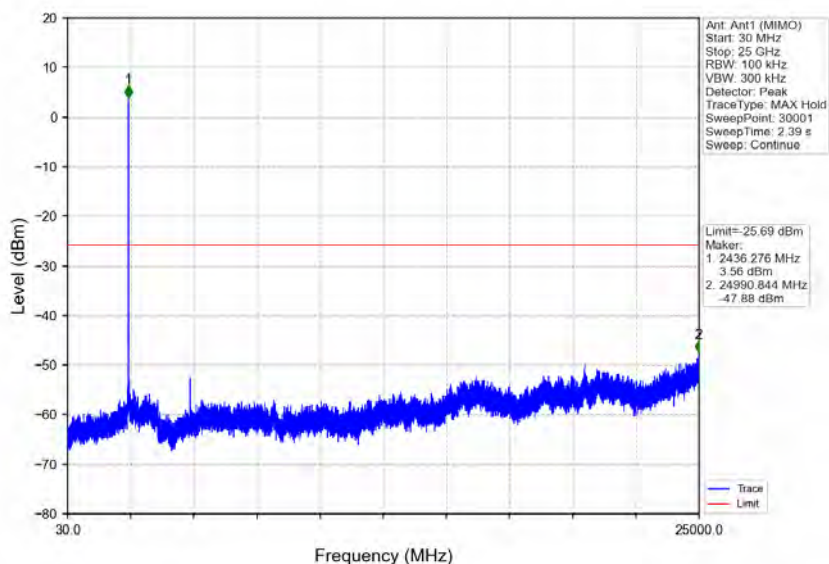
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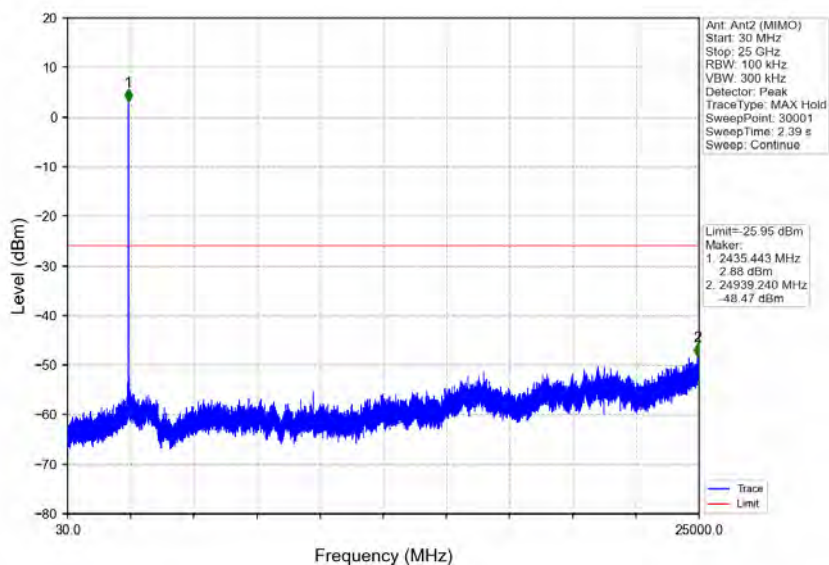
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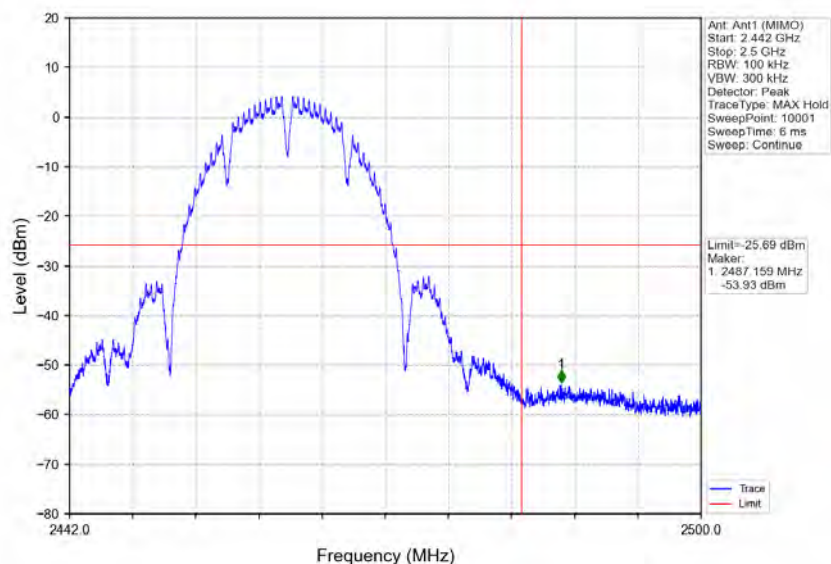
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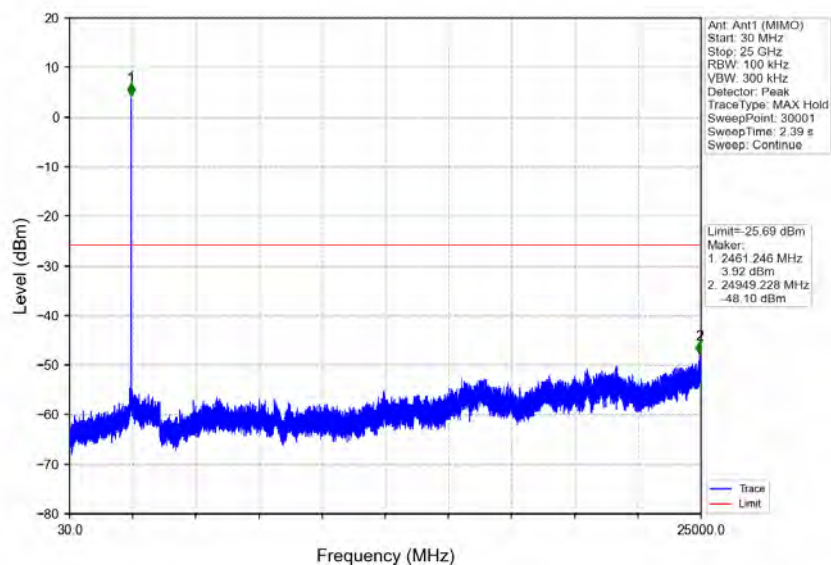
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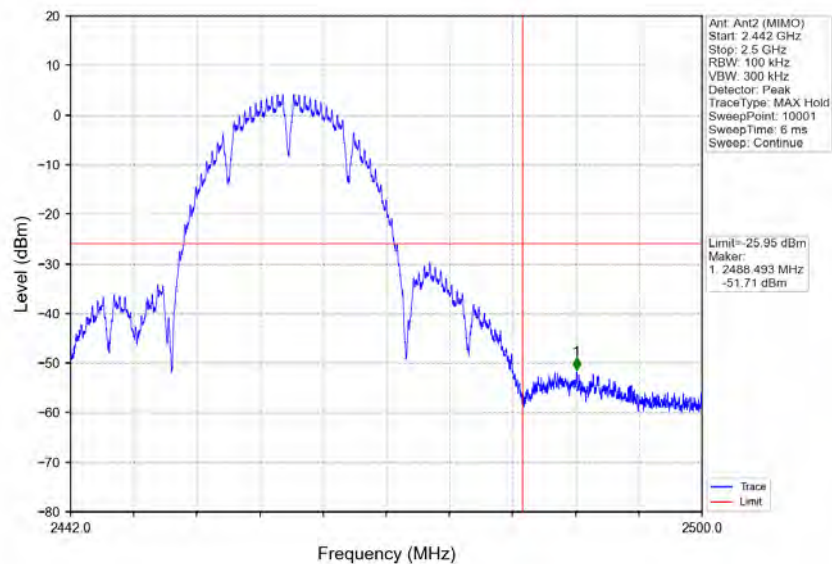
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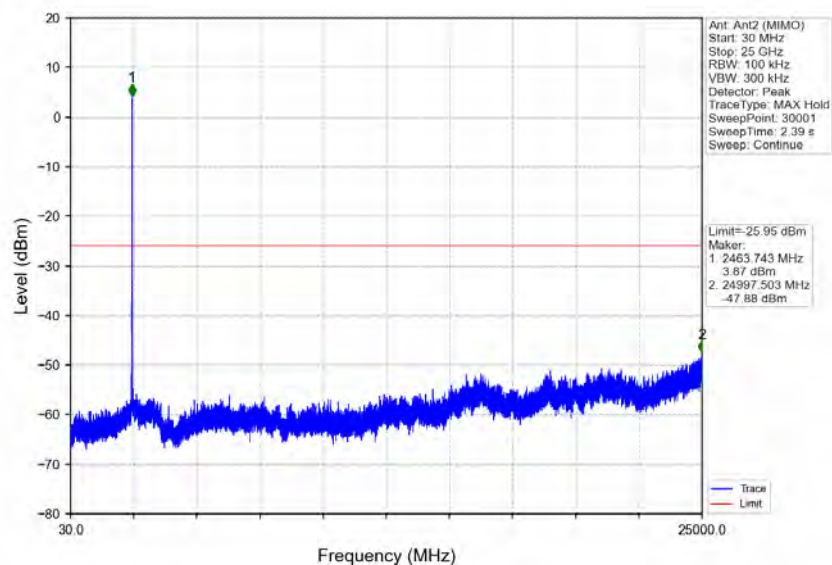
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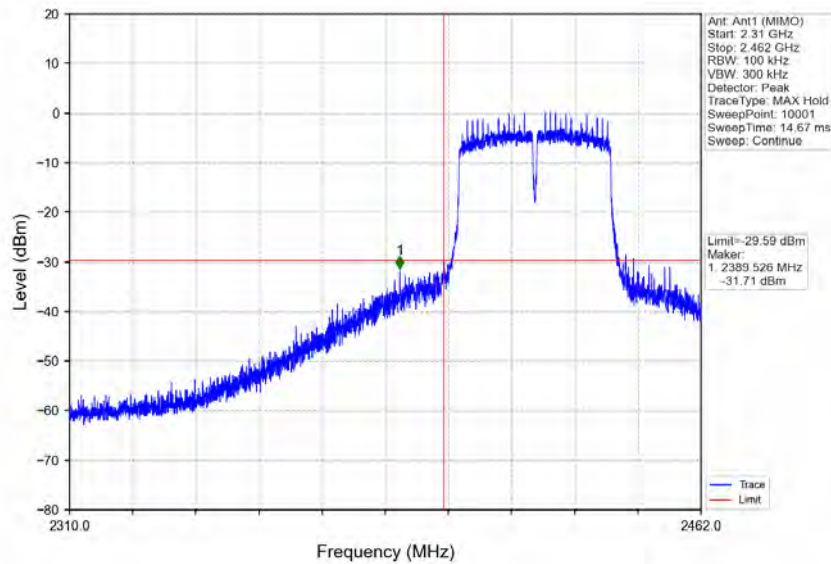


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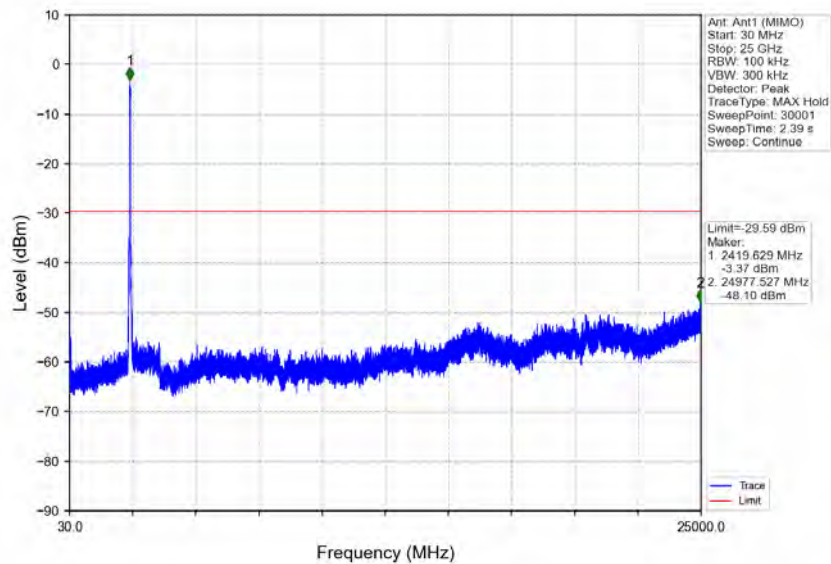
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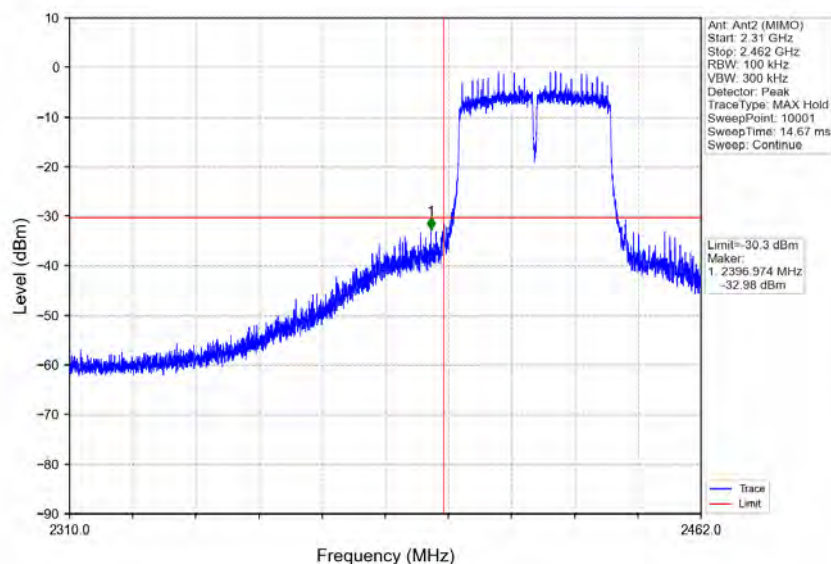
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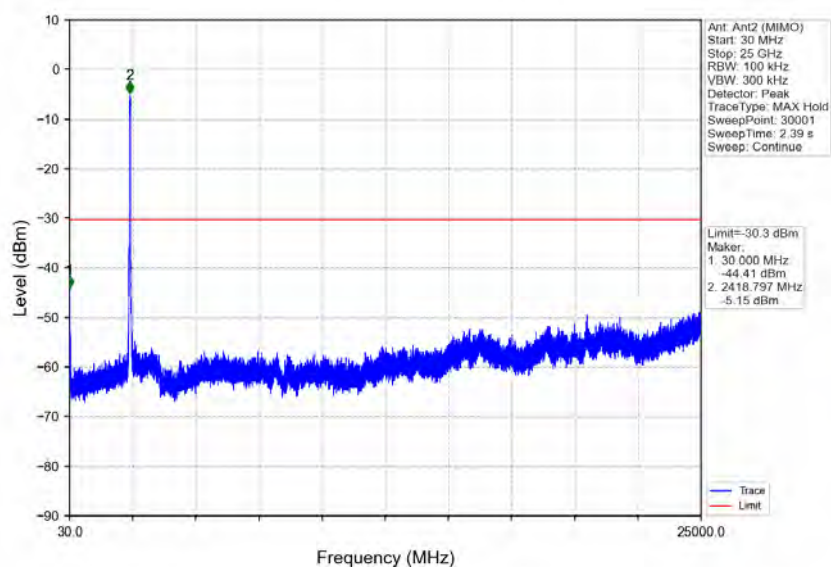
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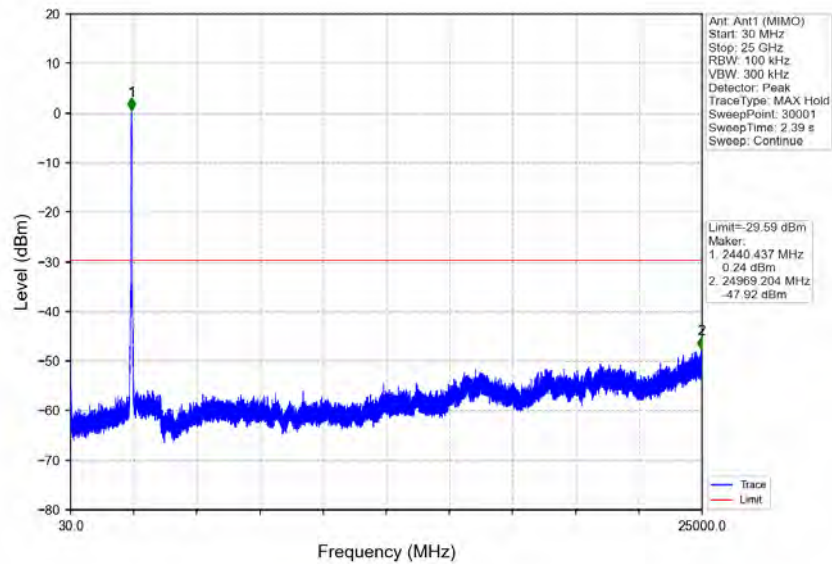
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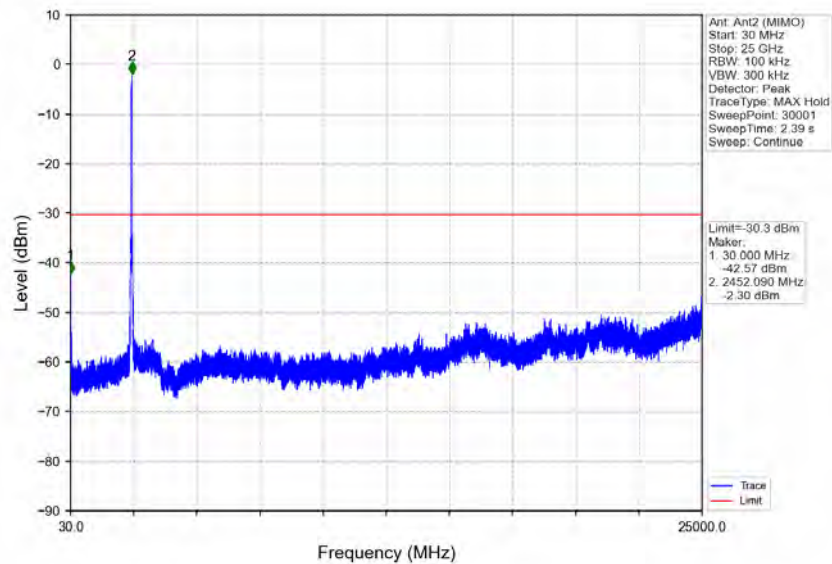
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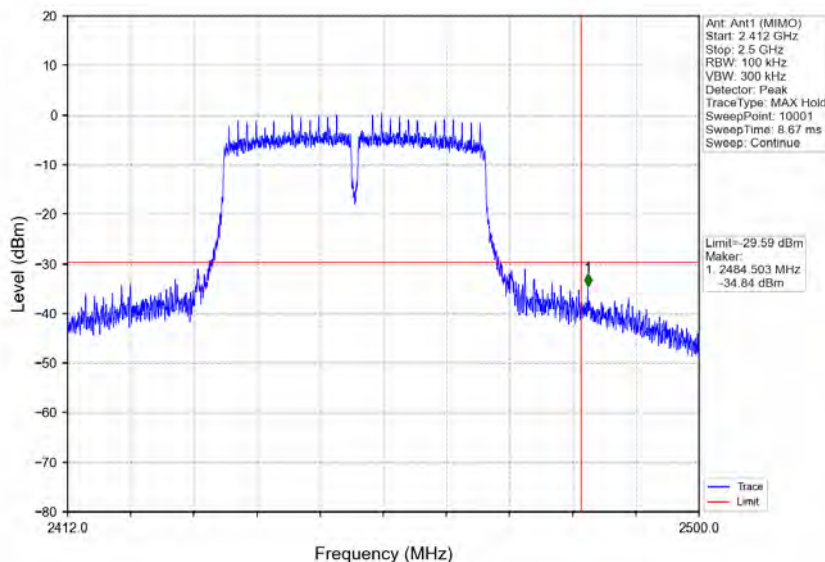
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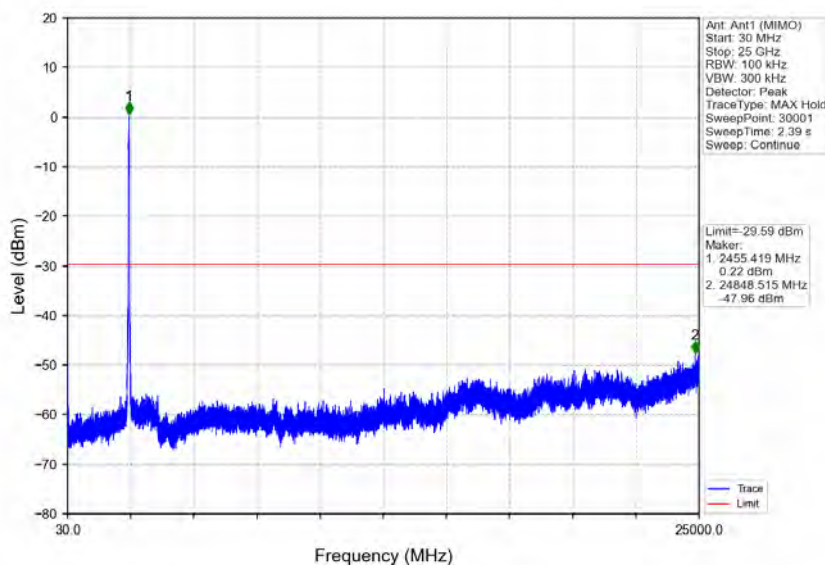
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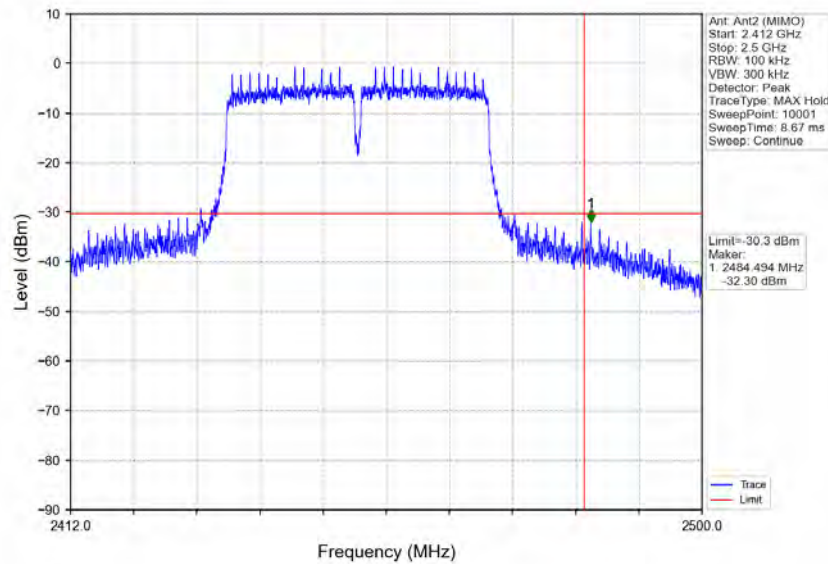
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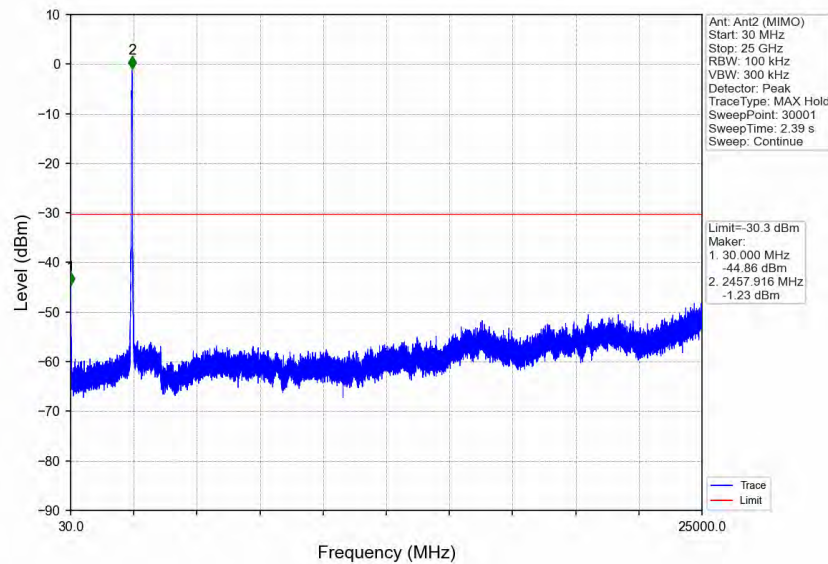
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