

Appendix C for KSCR220100003503-2.4G-MT7668

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	12.420	13.696	90.68	0.42	6.51
		2437	12.417	12.904	96.23	0.17	0.75
		2462	12.420	12.880	96.43	0.16	0.83
802.11g	SISO	2412	2.063	2.294	89.93	0.46	5.63
		2437	2.064	2.285	90.33	0.44	4.83
		2462	2.064	2.286	90.29	0.44	4.86
802.11n (HT20)	MIMO	2412	1.920	2.142	89.64	0.48	5.61
		2437	1.920	2.151	89.26	0.49	4.71
		2462	1.920	2.134	89.97	0.46	5.20
802.11n (HT40)	MIMO	2422	0.944	1.166	80.96	0.92	7.52
		2437	0.944	1.166	80.96	0.92	9.83
		2452	0.945	3.306	28.58	5.44	61.46



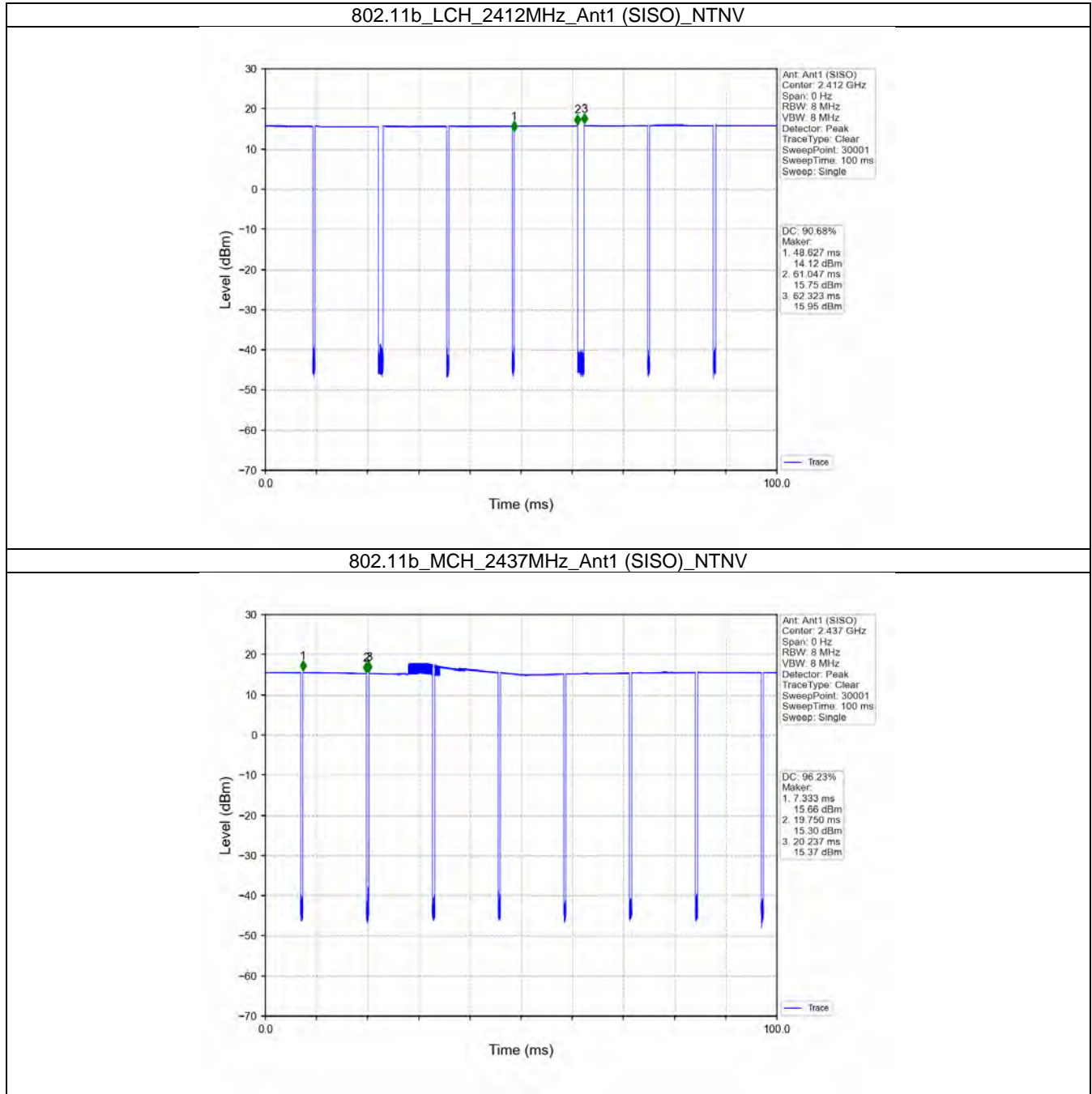
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1.1.2 Test Graph



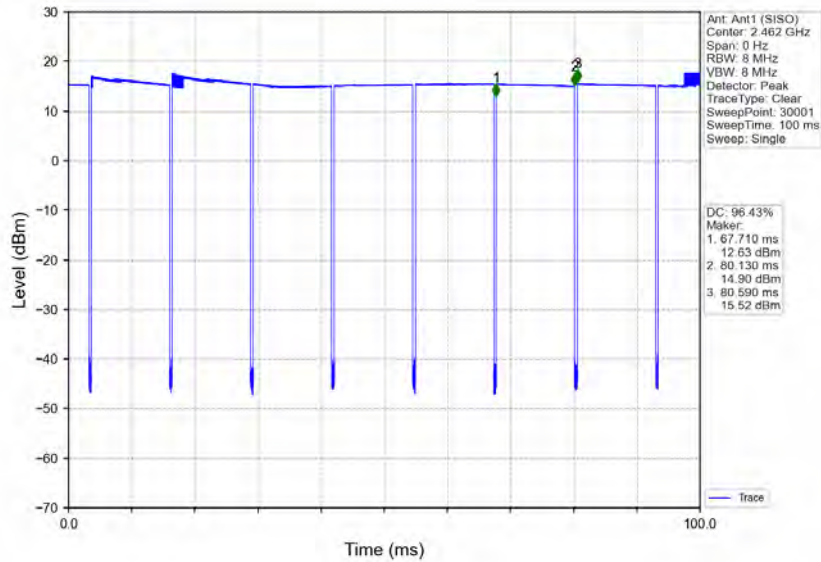
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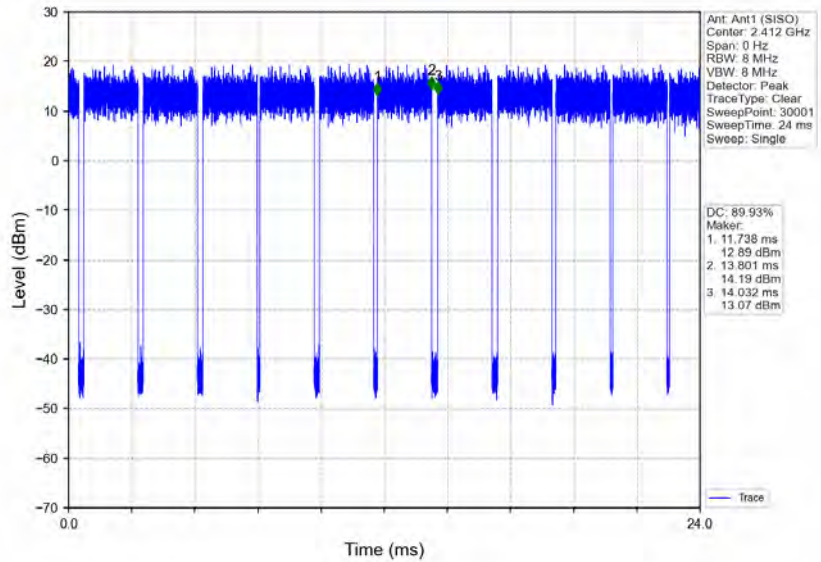
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

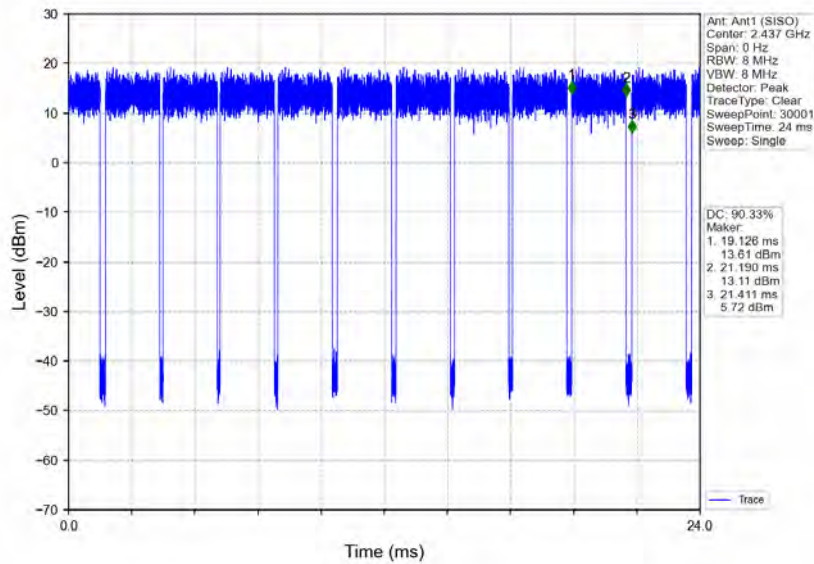


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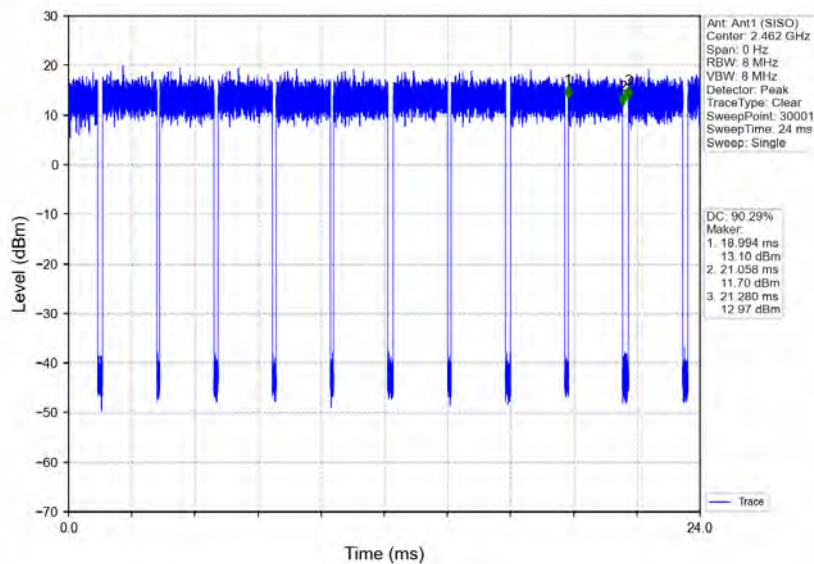
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



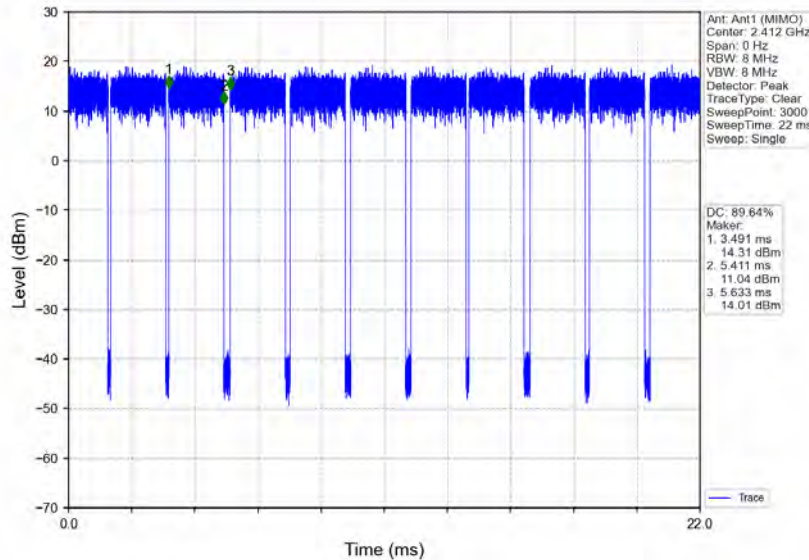
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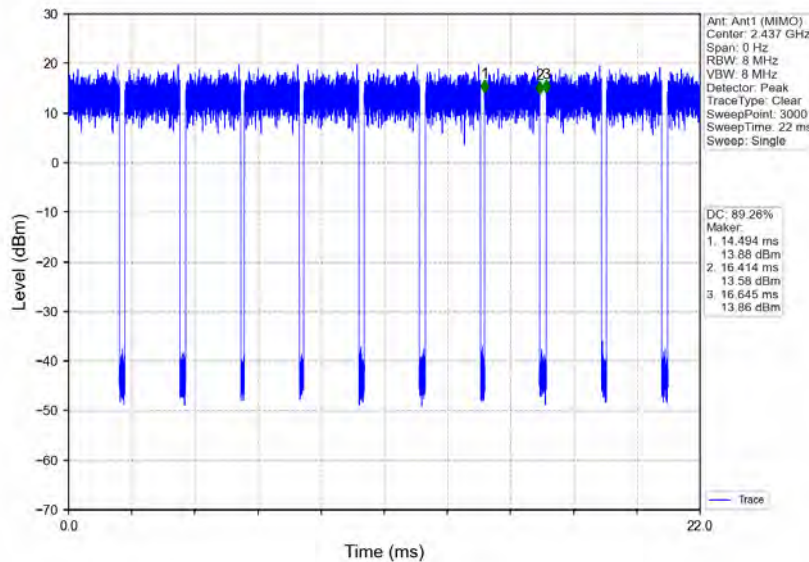
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



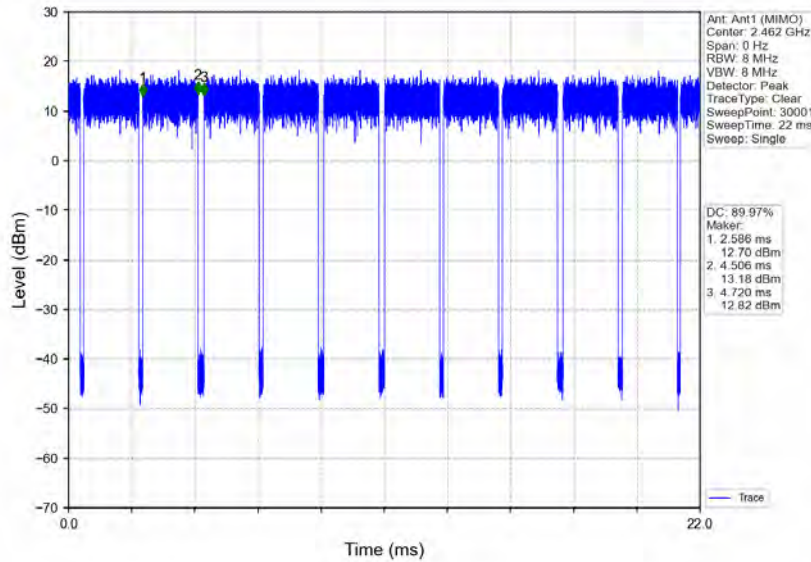
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



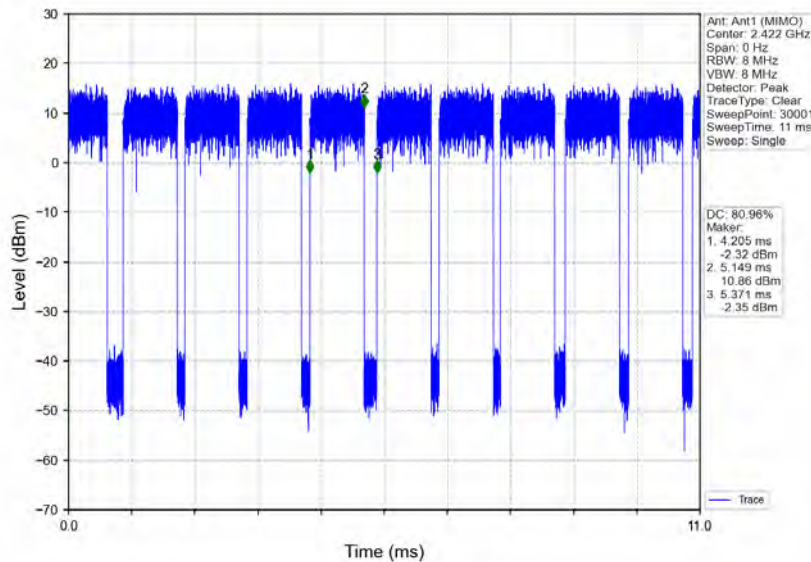
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



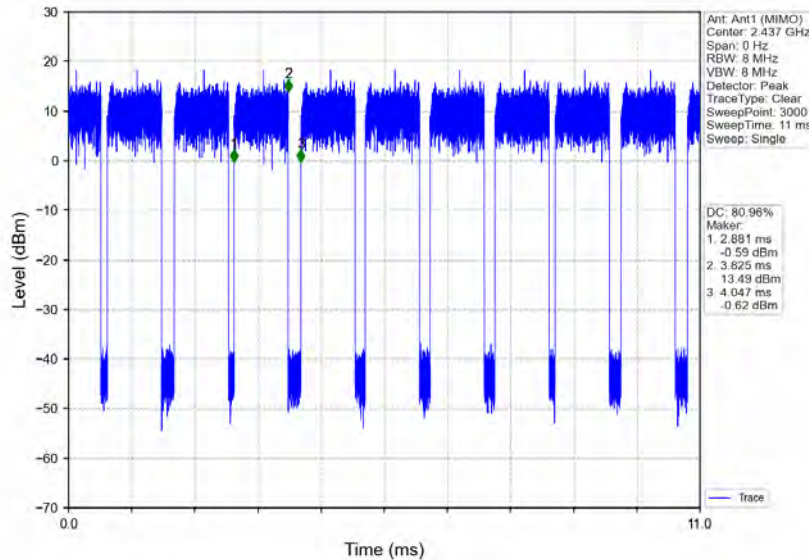
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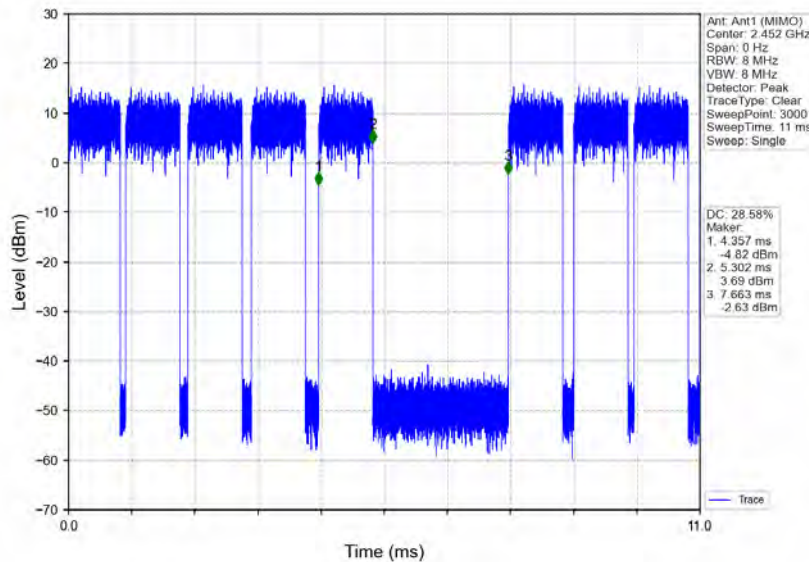
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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	14.840	Pass
			2	14.829	Pass
		2437	1	14.932	Pass
			2	14.874	Pass
		2462	1	14.918	Pass
			2	14.828	Pass
802.11g	SISO	2412	1	17.205	Pass
			2	17.331	Pass
		2437	1	17.368	Pass
			2	17.330	Pass
		2462	1	17.200	Pass
			2	17.215	Pass
802.11n (HT20)	MIMO	2412	1	18.439	Pass
			2	18.387	Pass
		2437	1	18.506	Pass
			2	18.435	Pass
		2462	1	18.374	Pass
			2	18.327	Pass
802.11n (HT40)	MIMO	2422	1	36.468	Pass
			2	36.354	Pass
		2437	1	36.383	Pass
			2	36.577	Pass
		2452	1	36.312	Pass
			2	36.575	Pass



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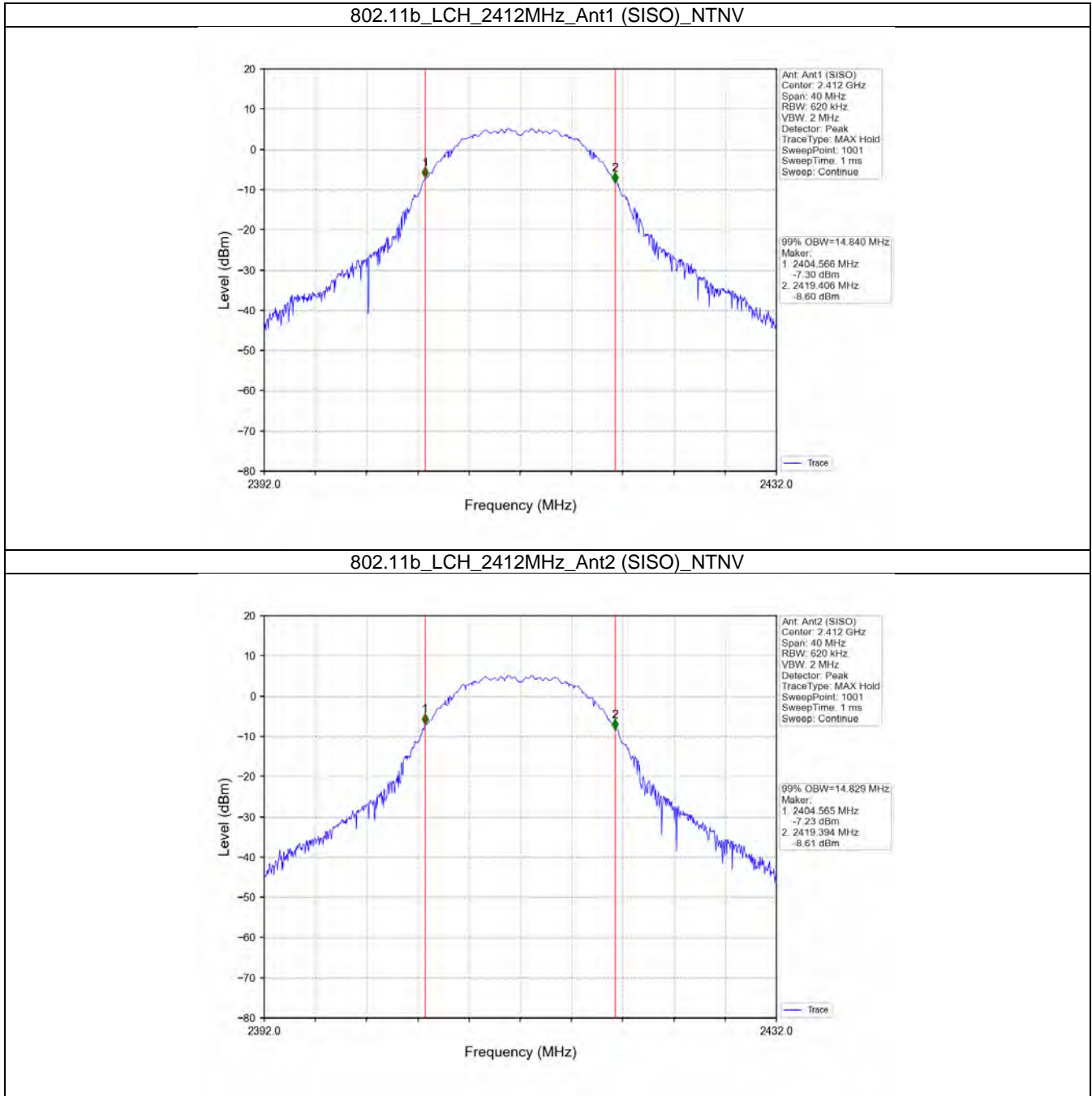
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2.1.2 Test Graph



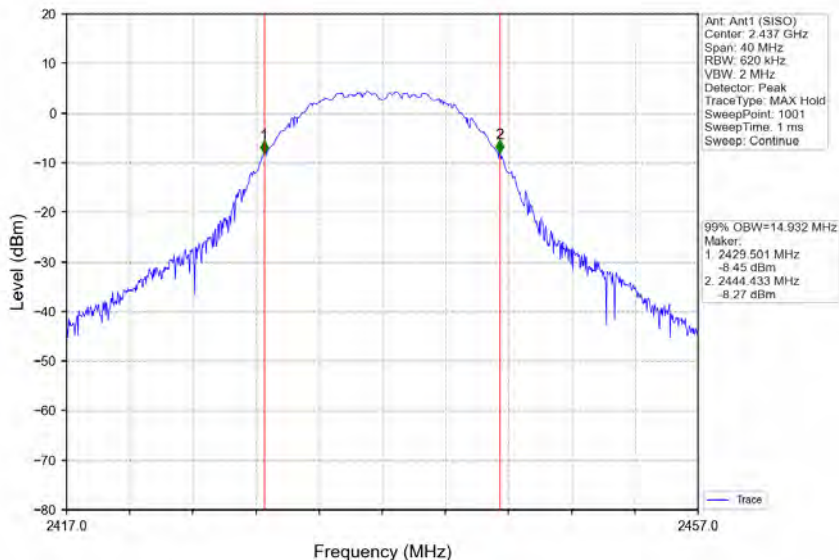
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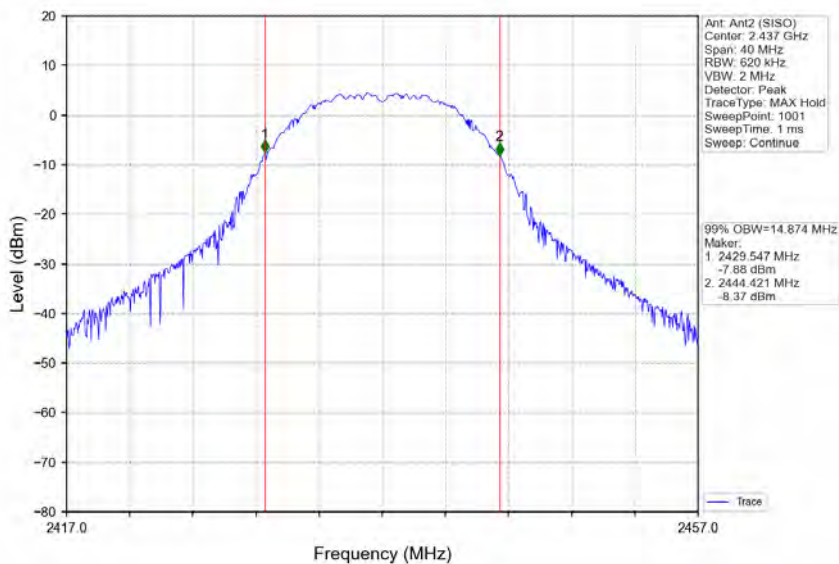
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



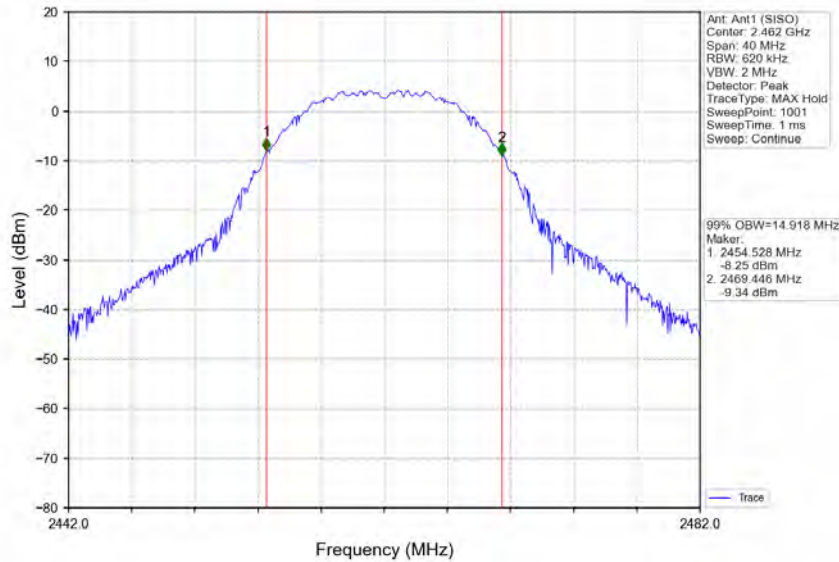
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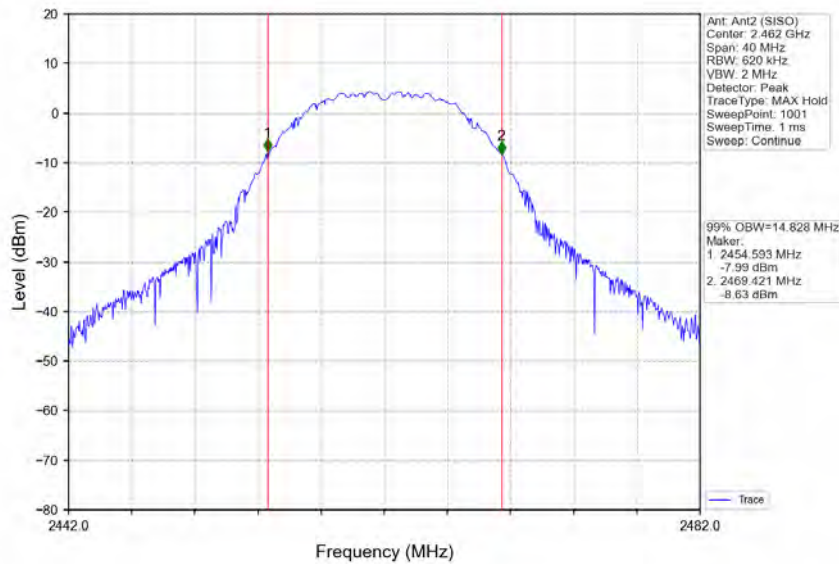
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



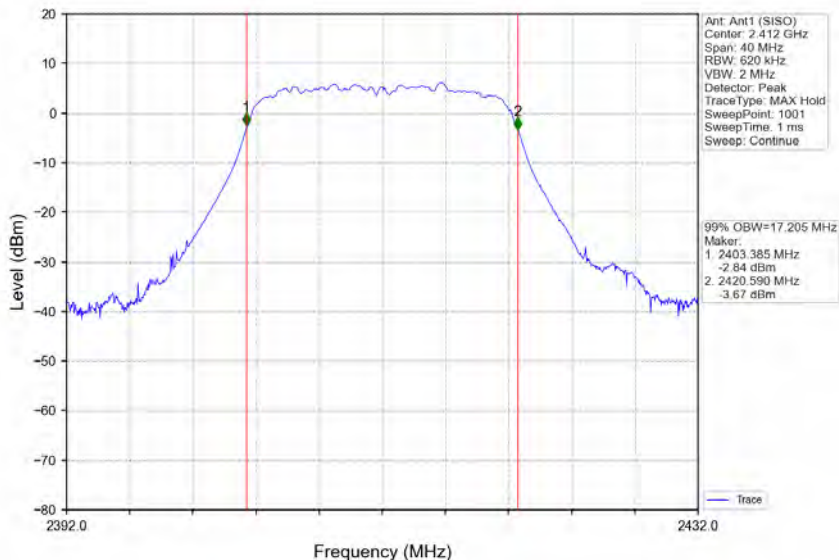
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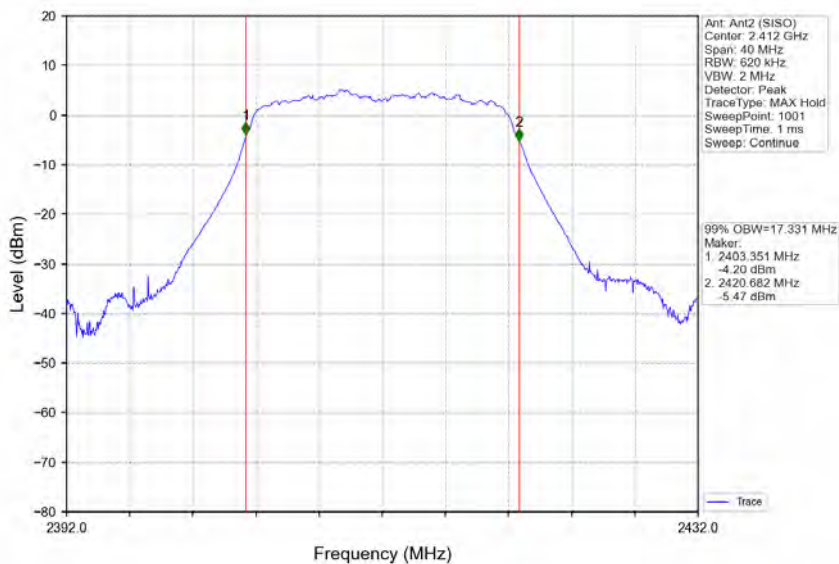
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



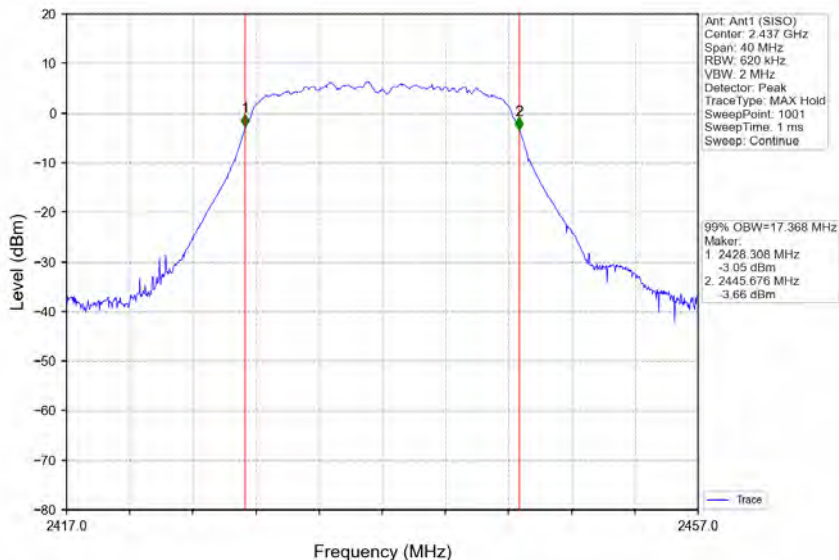
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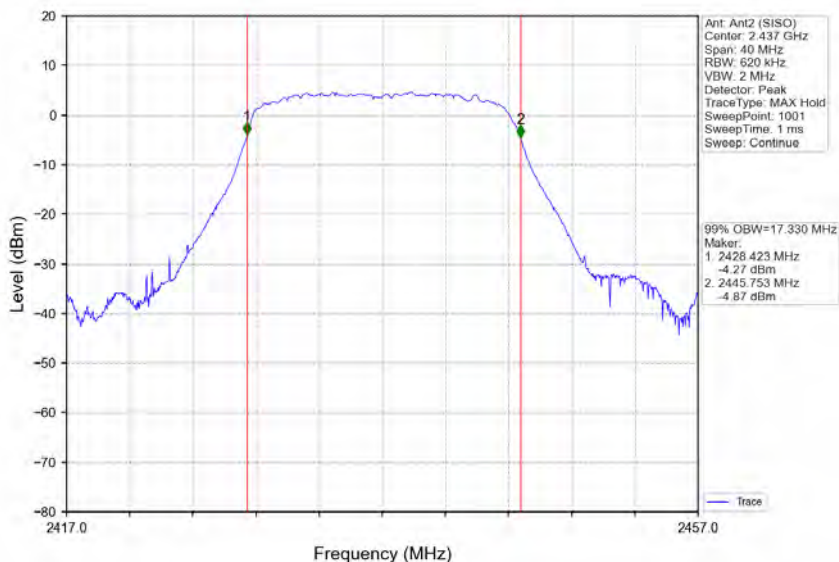
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



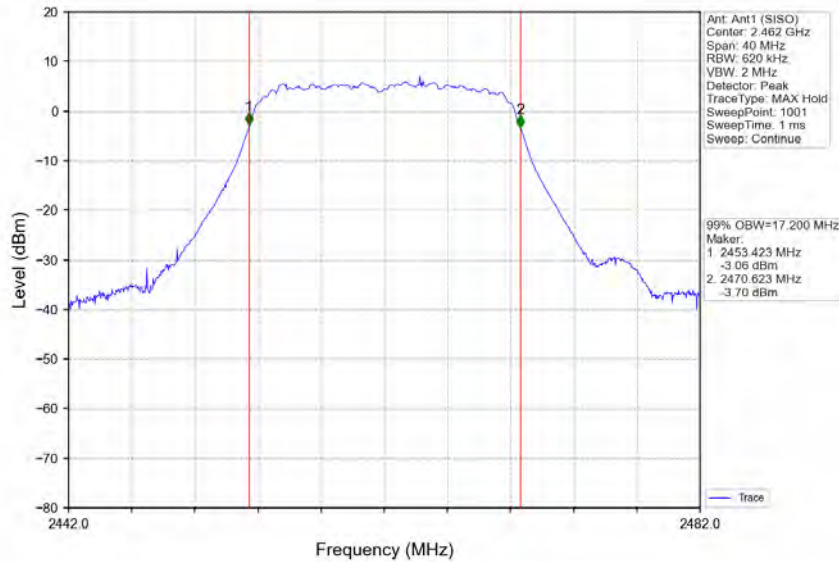
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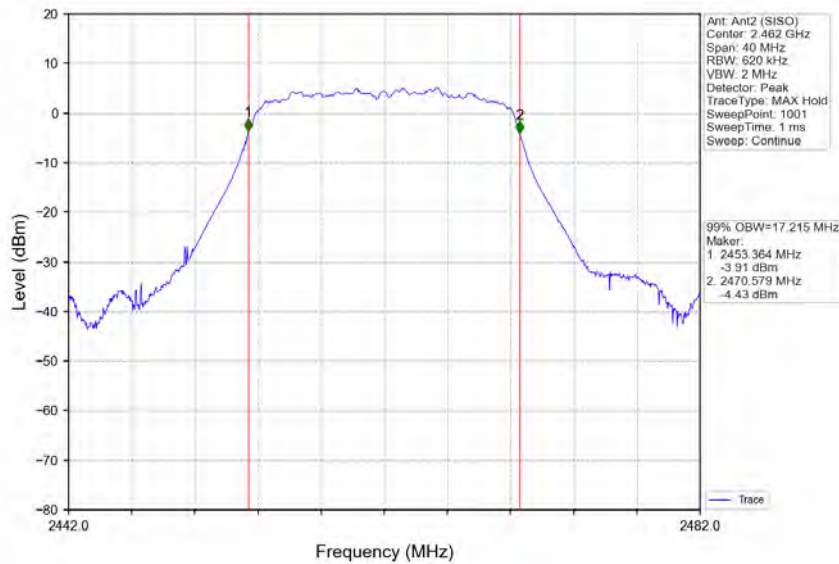
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



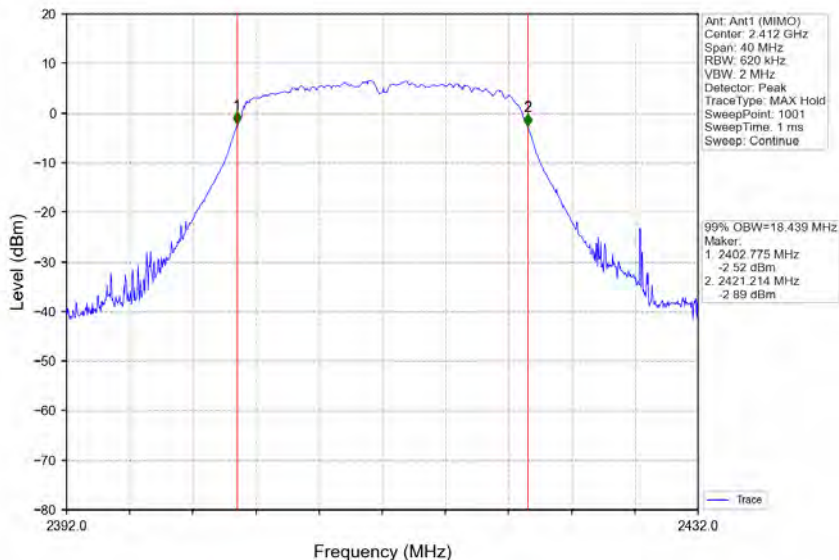
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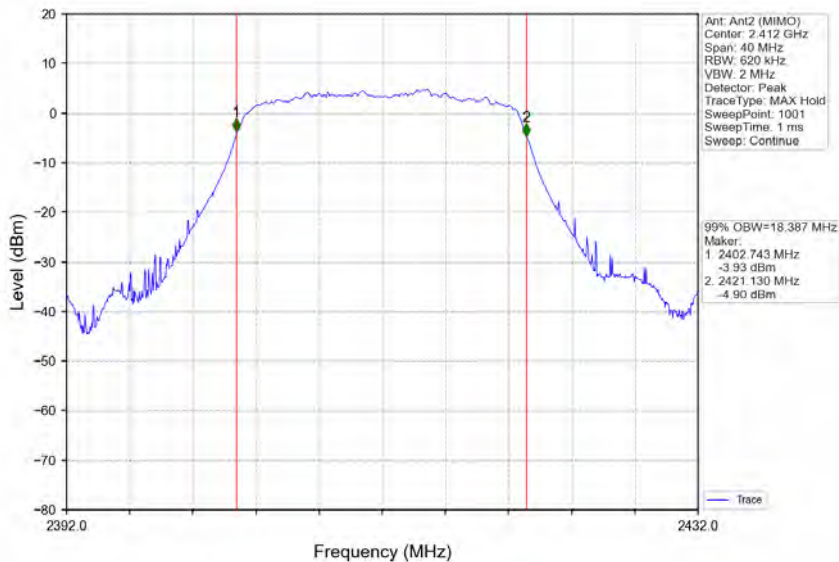
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



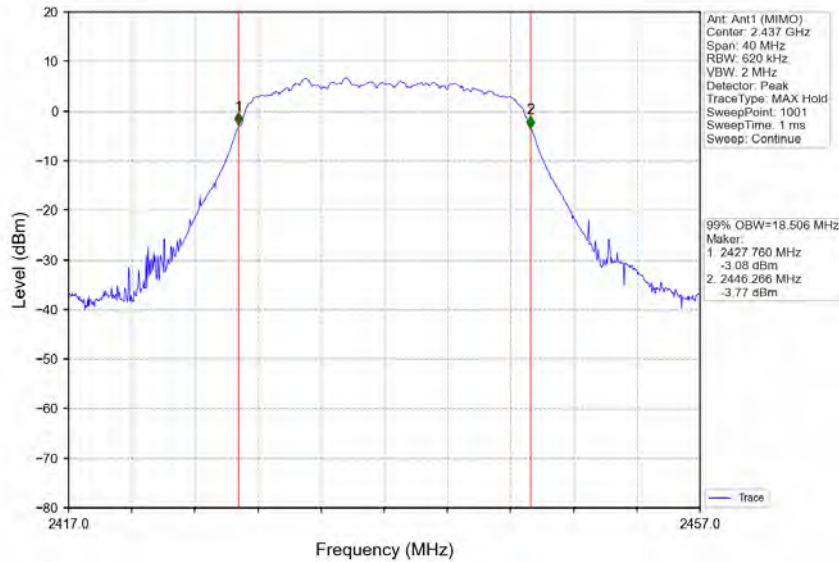
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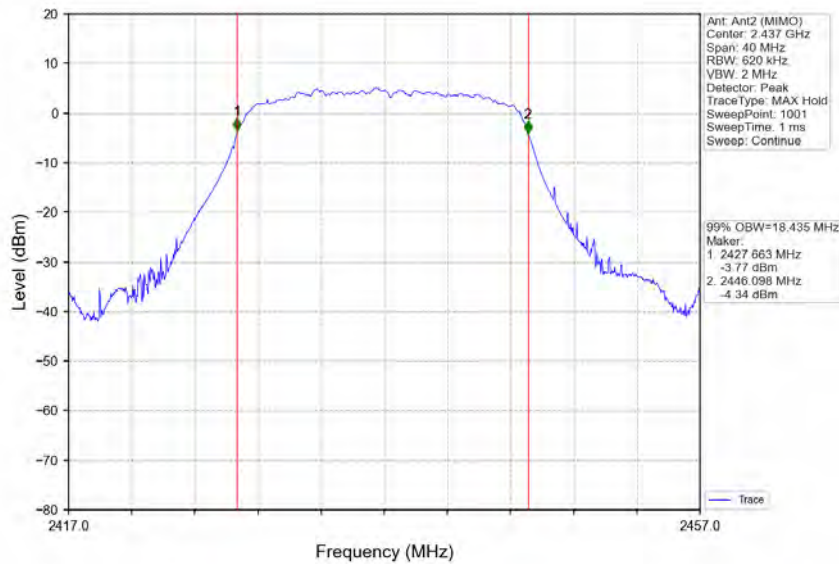
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV

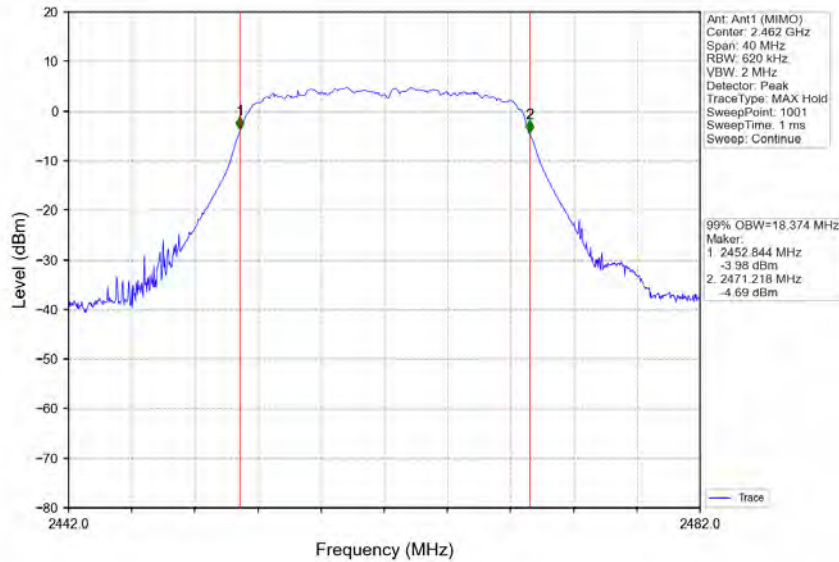


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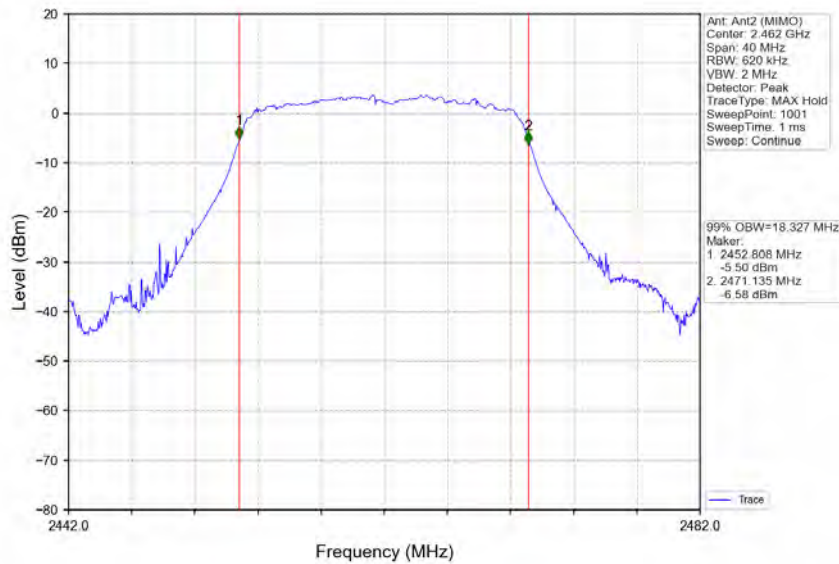
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



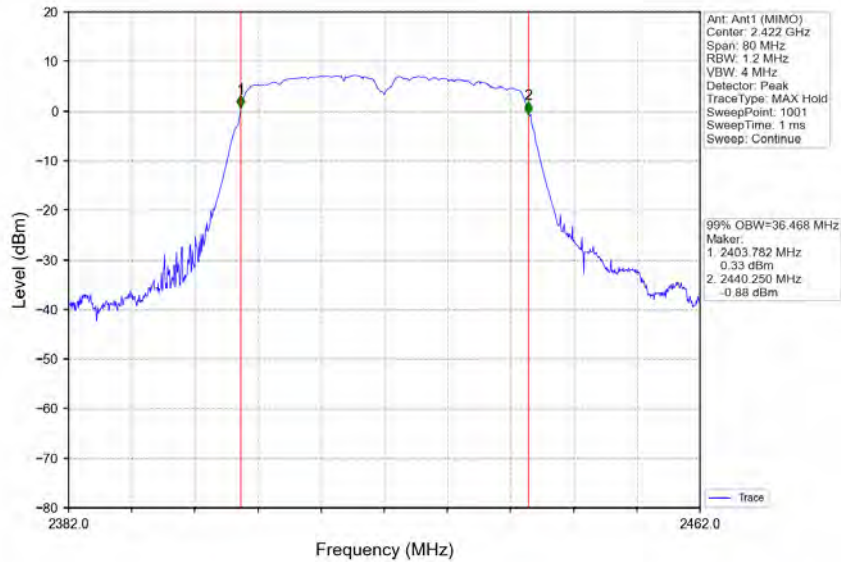
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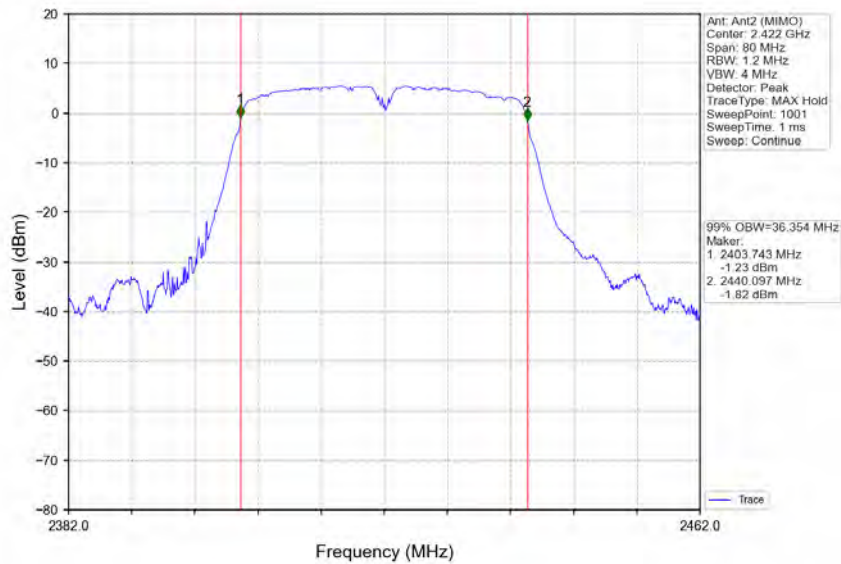
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



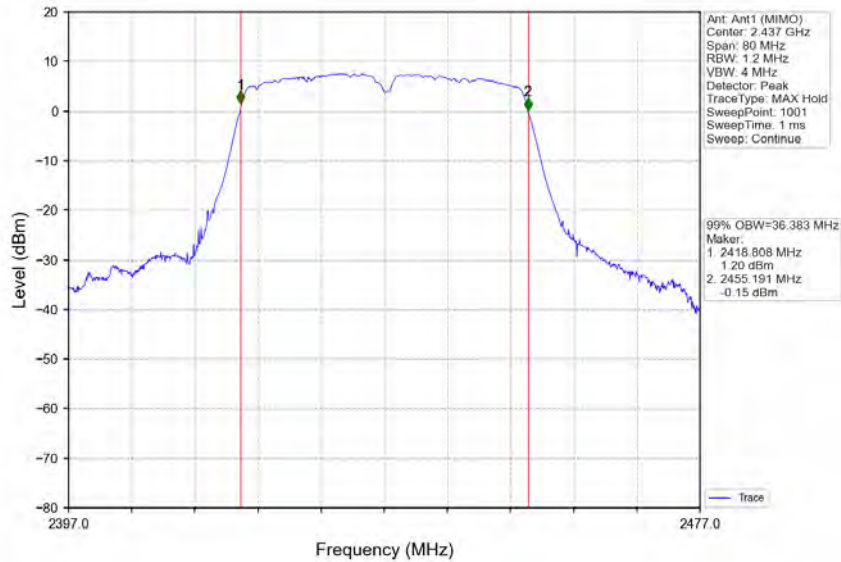
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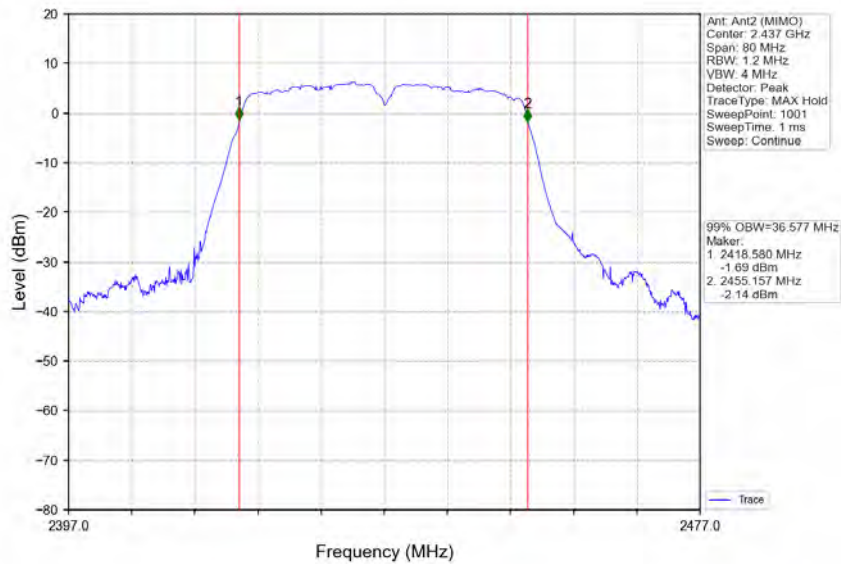
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



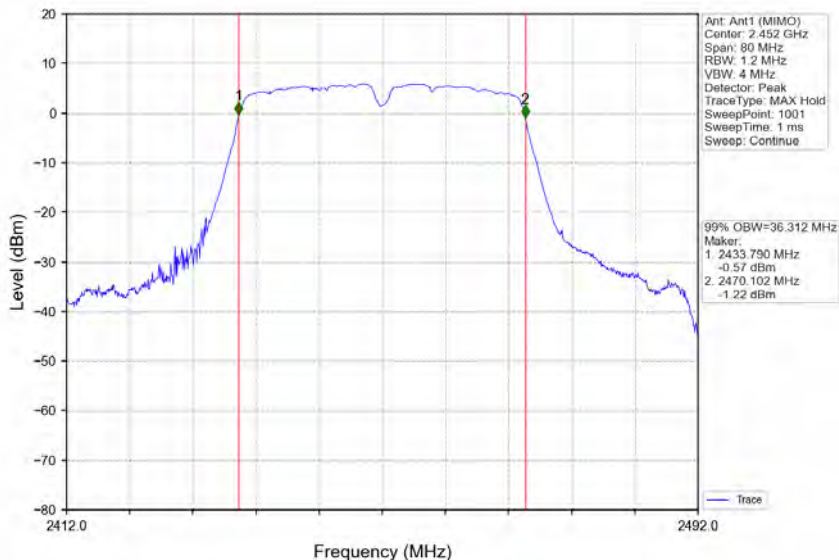
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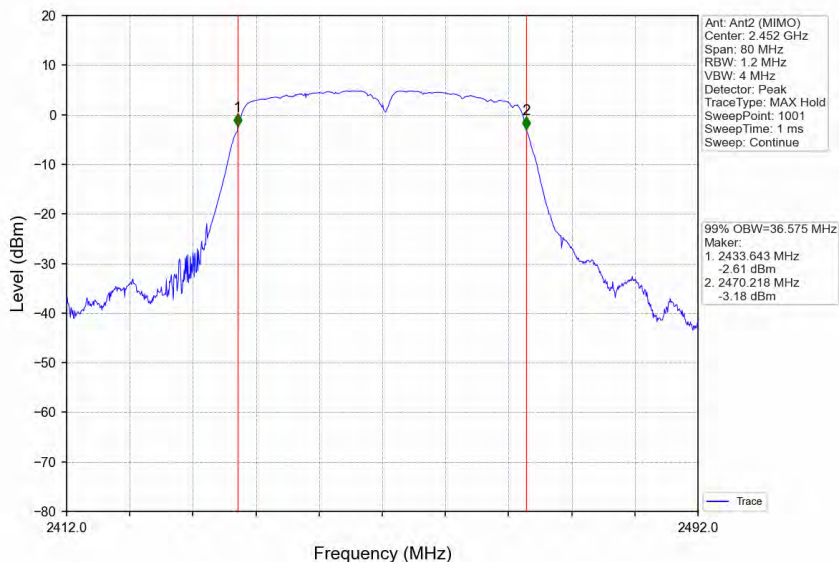
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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	10.121	>=0.5	Pass
			2	10.125	>=0.5	Pass
		2437	1	10.127	>=0.5	Pass
			2	10.128	>=0.5	Pass
		2462	1	10.130	>=0.5	Pass
			2	10.127	>=0.5	Pass
802.11g	SISO	2412	1	16.055	>=0.5	Pass
			2	15.710	>=0.5	Pass
		2437	1	16.030	>=0.5	Pass
			2	15.845	>=0.5	Pass
		2462	1	15.806	>=0.5	Pass
			2	15.789	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	16.653	>=0.5	Pass
			2	16.097	>=0.5	Pass
		2437	1	16.068	>=0.5	Pass
			2	16.664	>=0.5	Pass
		2462	1	16.922	>=0.5	Pass
			2	16.293	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.170	>=0.5	Pass
			2	35.167	>=0.5	Pass
		2437	1	35.177	>=0.5	Pass
			2	35.173	>=0.5	Pass
		2452	1	35.174	>=0.5	Pass
			2	35.176	>=0.5	Pass

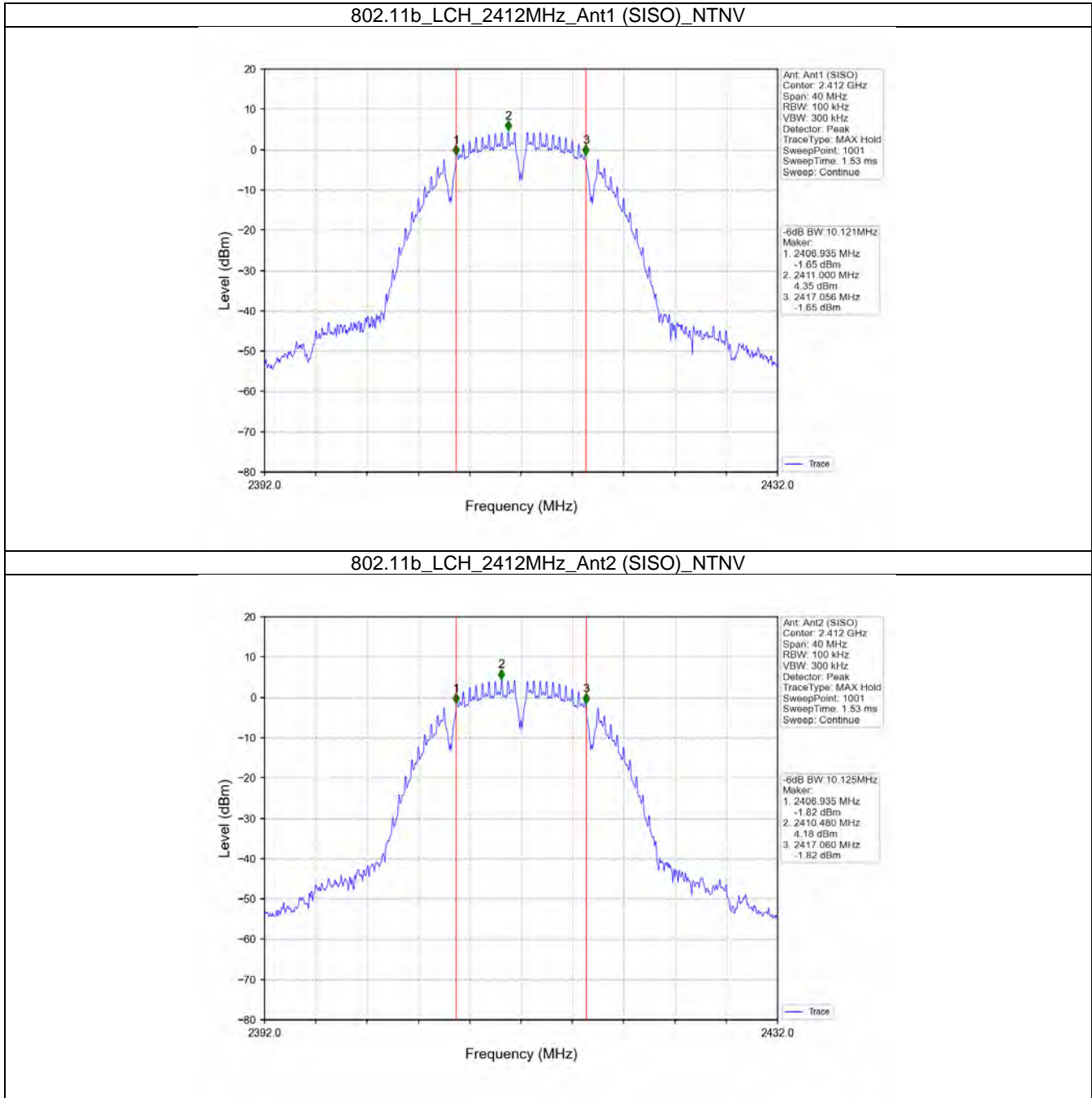


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2.2.2 Test Graph



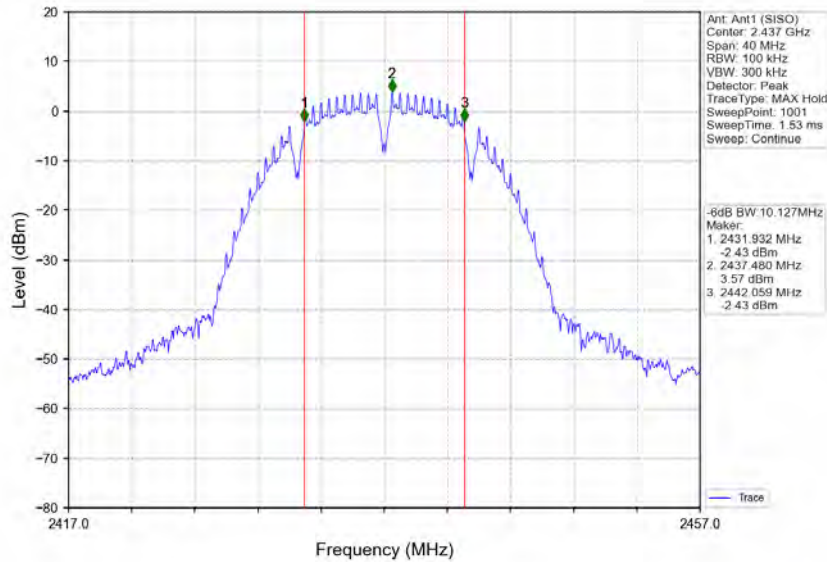
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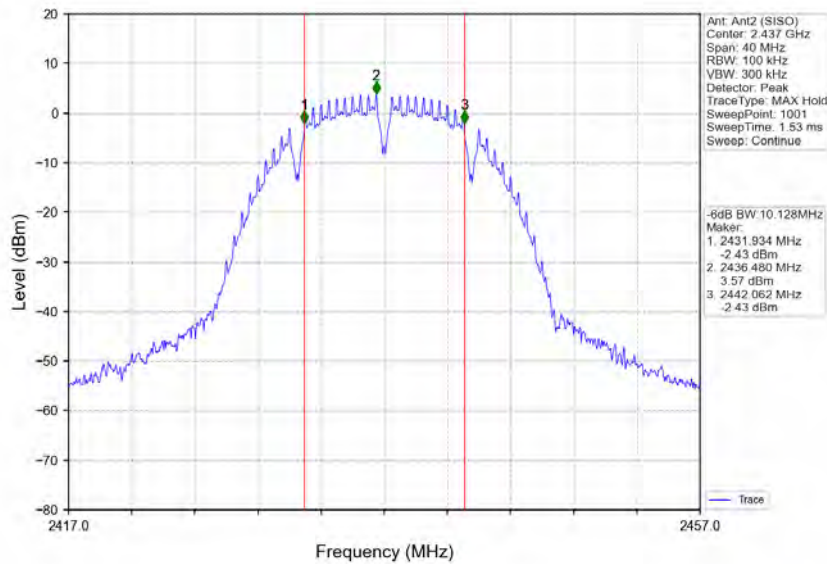
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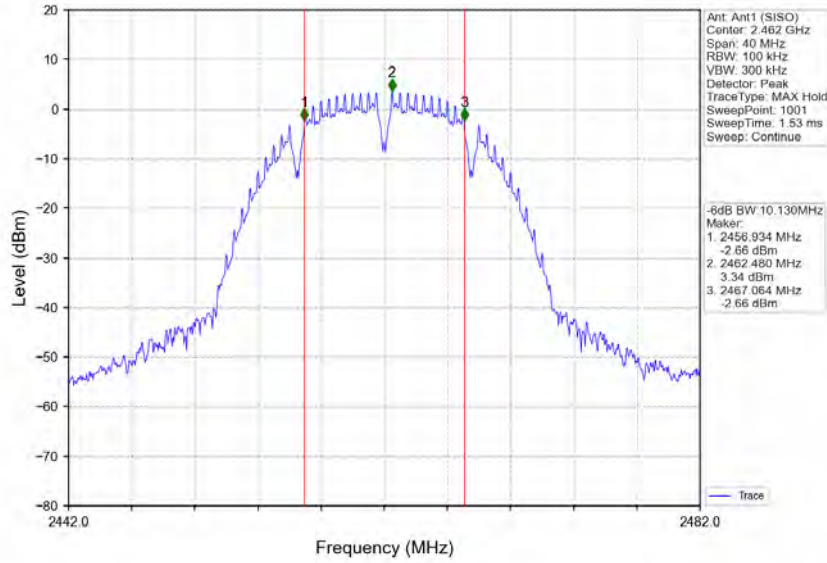
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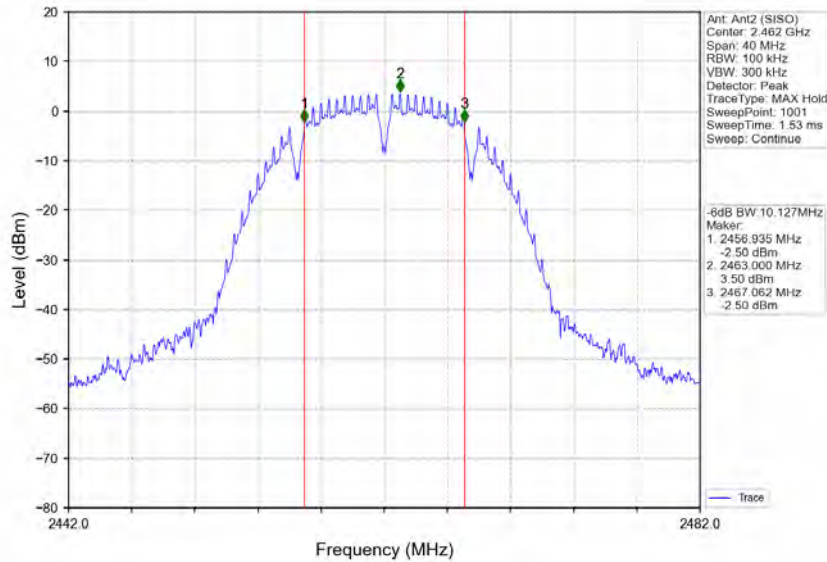
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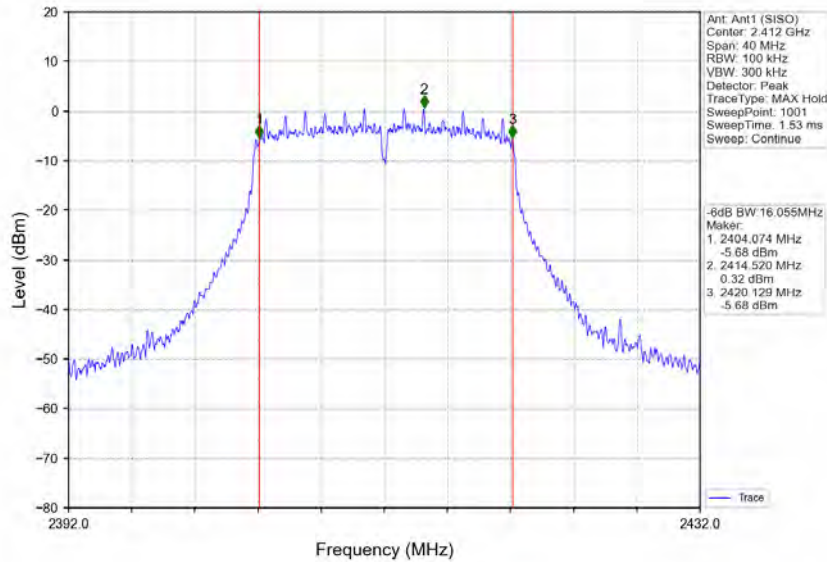
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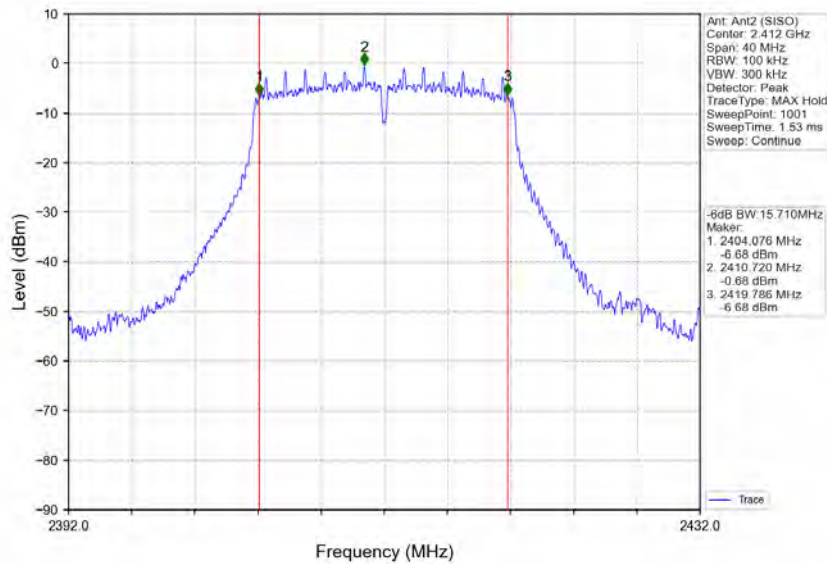
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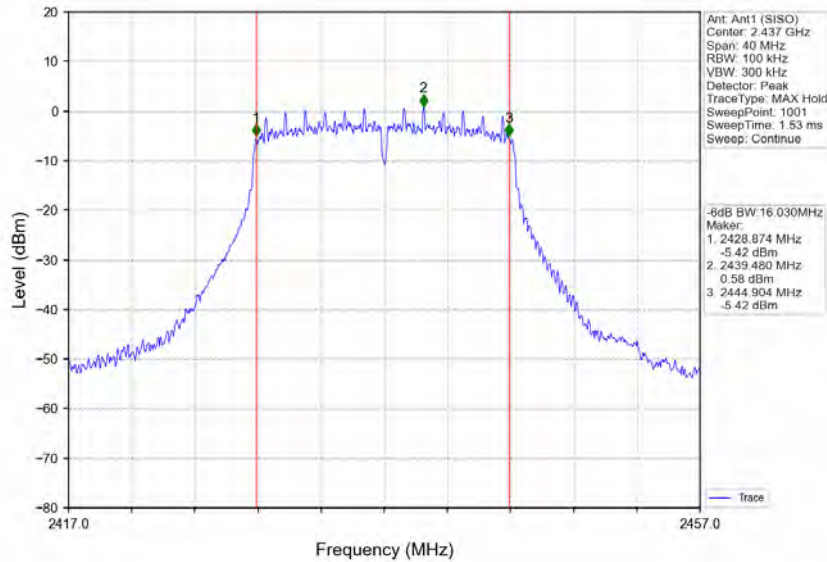
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



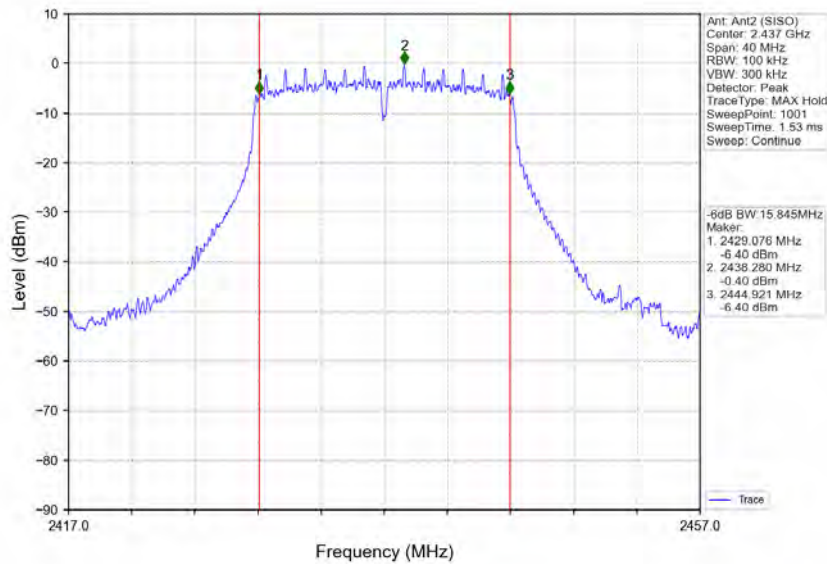
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



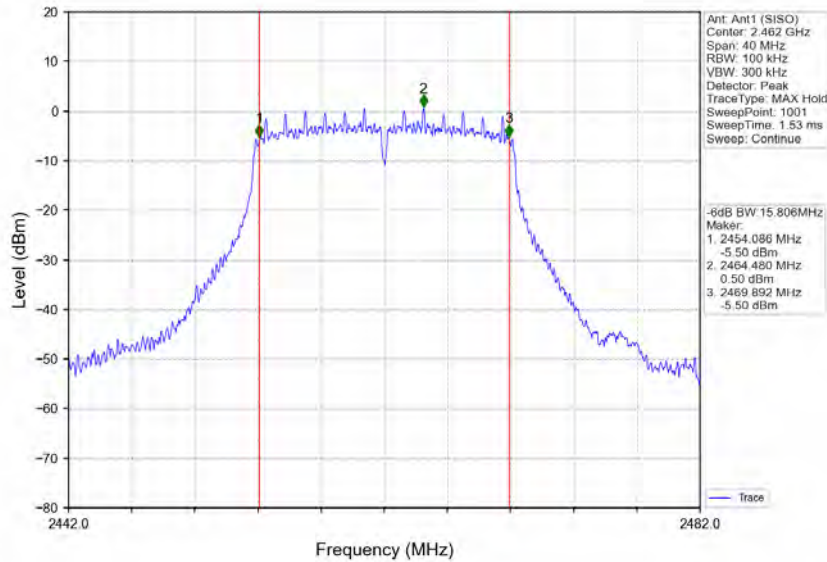
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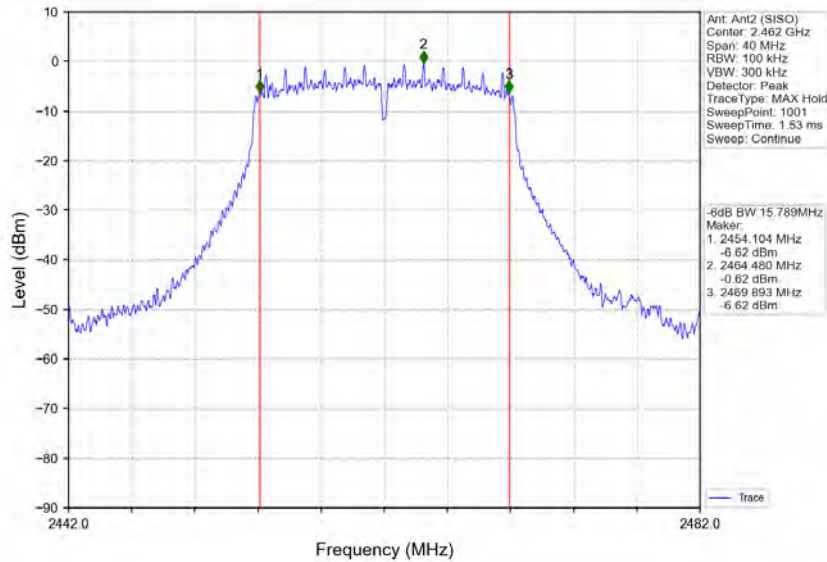
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



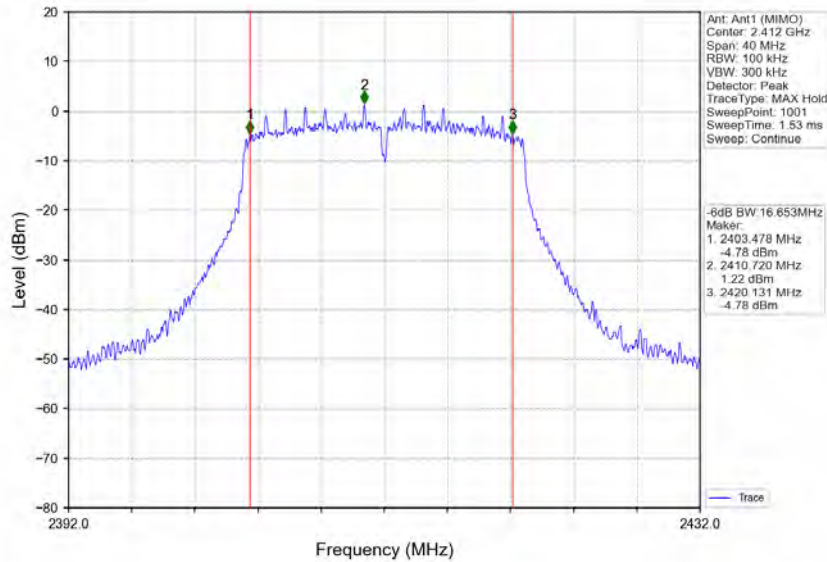
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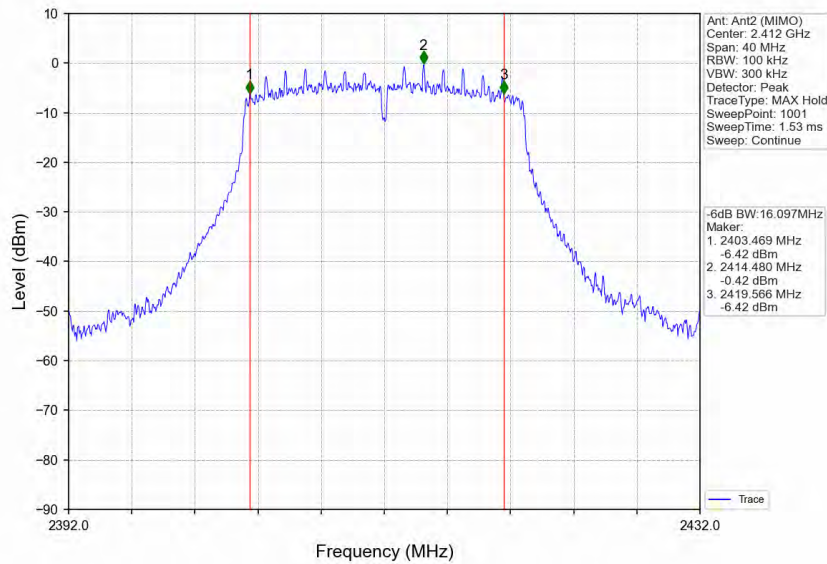
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



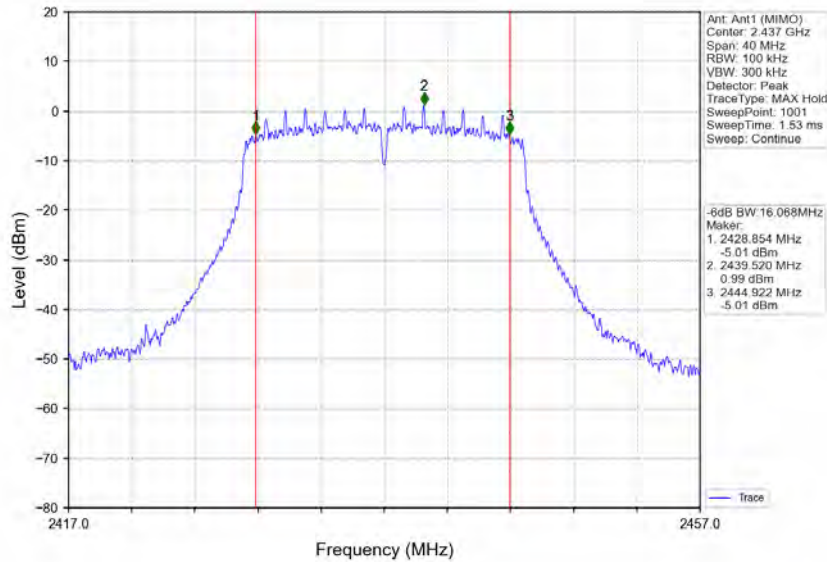
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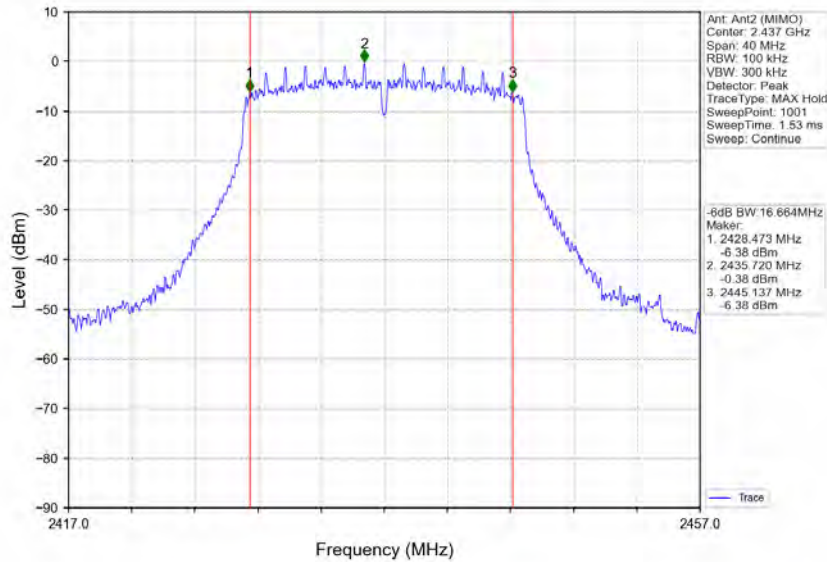
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



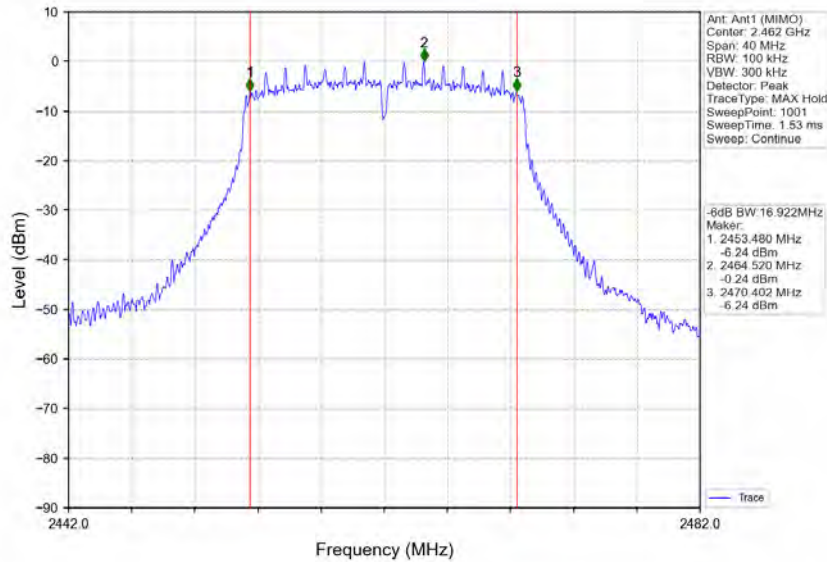
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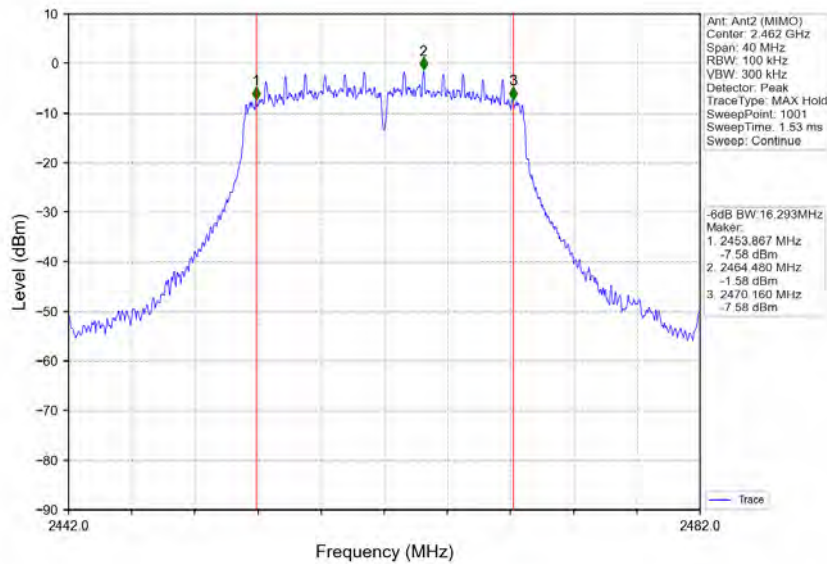
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



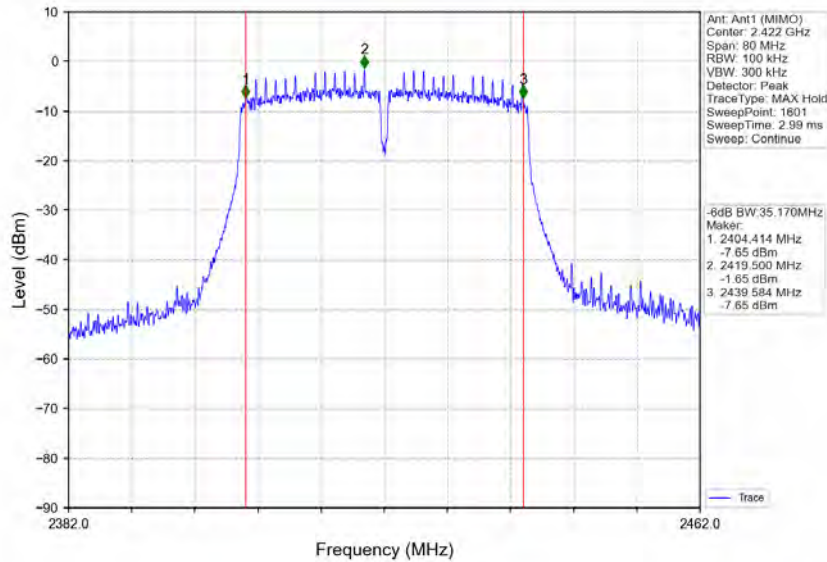
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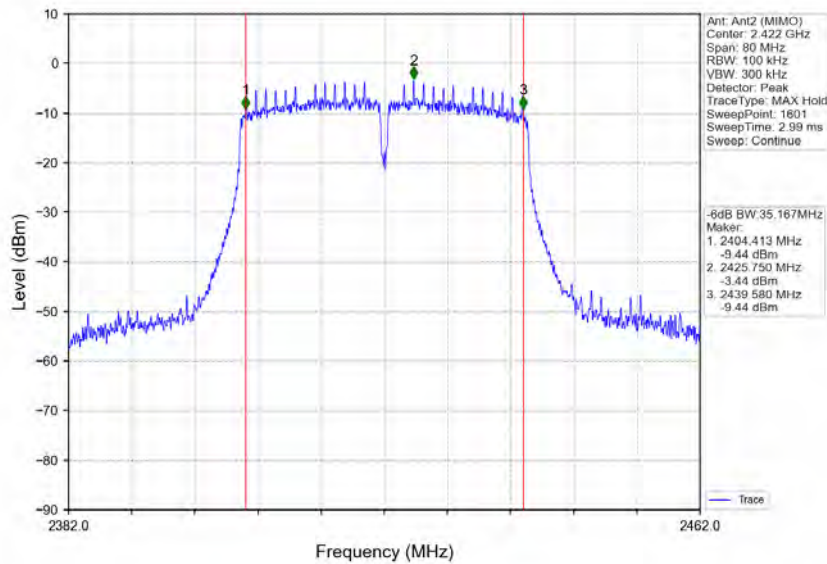
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



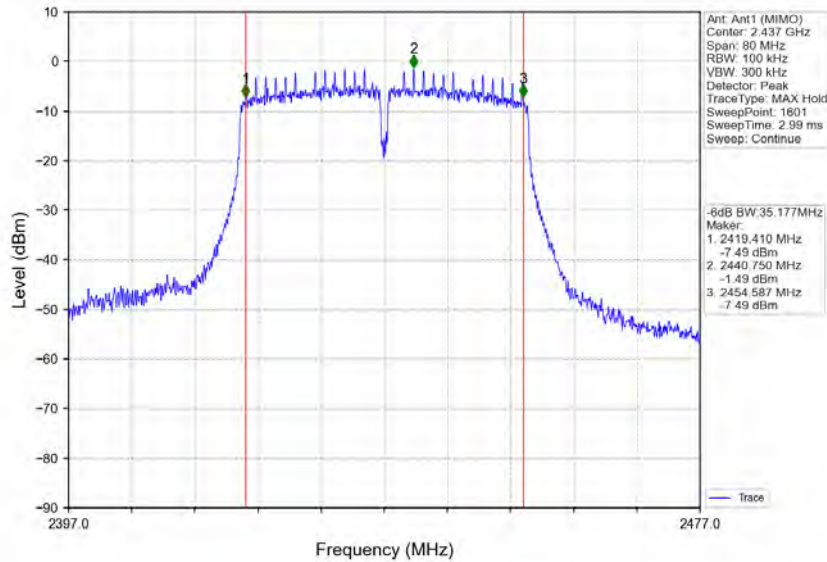
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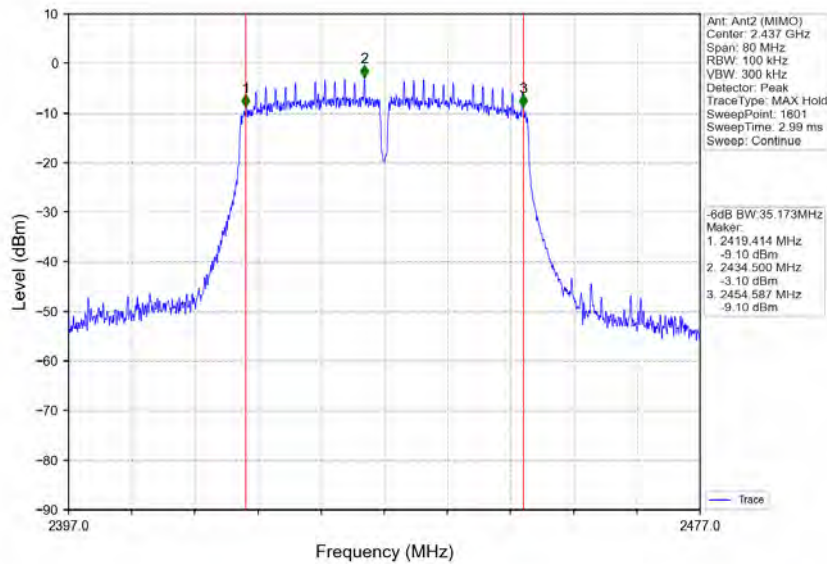
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



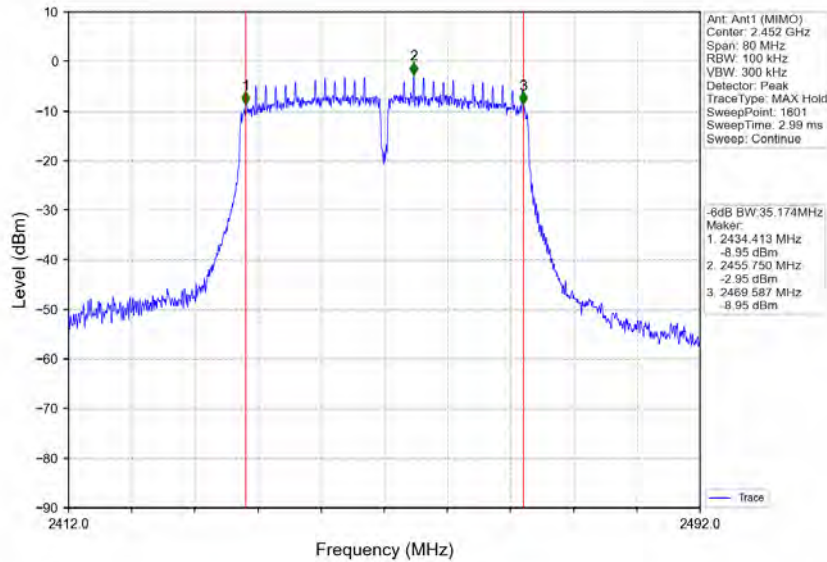
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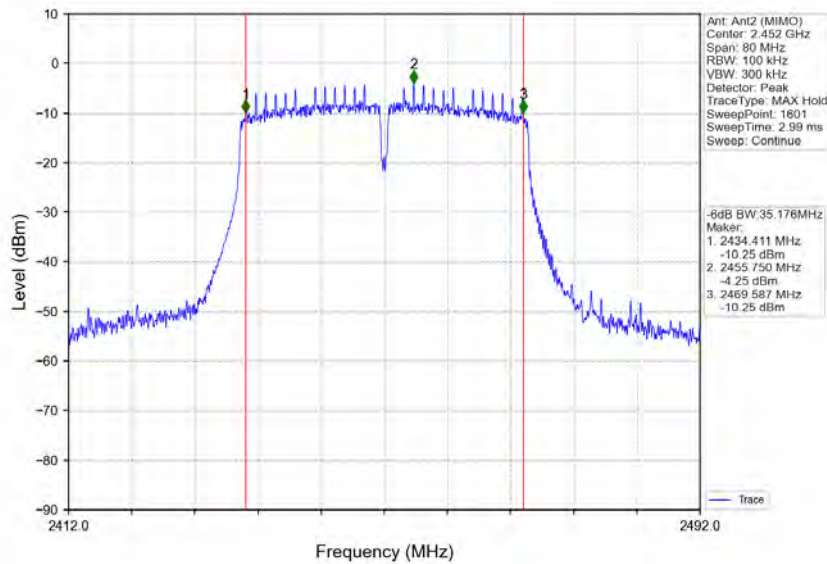
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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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	13.39	13.33	/	<=30	Pass
		2437	12.84	12.94	/	<=30	Pass
		2462	12.67	12.84	/	<=30	Pass
802.11g	SISO	2412	11.36	10.12	/	<=30	Pass
		2437	11.59	10.53	/	<=30	Pass
		2462	11.46	10.35	/	<=30	Pass
802.11n (HT20)	MIMO	2412	12.13	10.18	14.27	<=30	Pass
		2437	11.75	10.51	14.18	<=30	Pass
		2462	10.61	9.28	13.01	<=30	Pass
802.11n (HT40)	MIMO	2422	11.97	10.07	14.13	<=30	Pass
		2437	12.26	10.68	14.55	<=30	Pass
		2452	10.65	9.48	13.11	<=30	Pass

Note1: Antenna Gain: Ant1: -3.82dBi; Ant2: 0.97dBi;
 Note2: Directional Gain: 1.91dBi



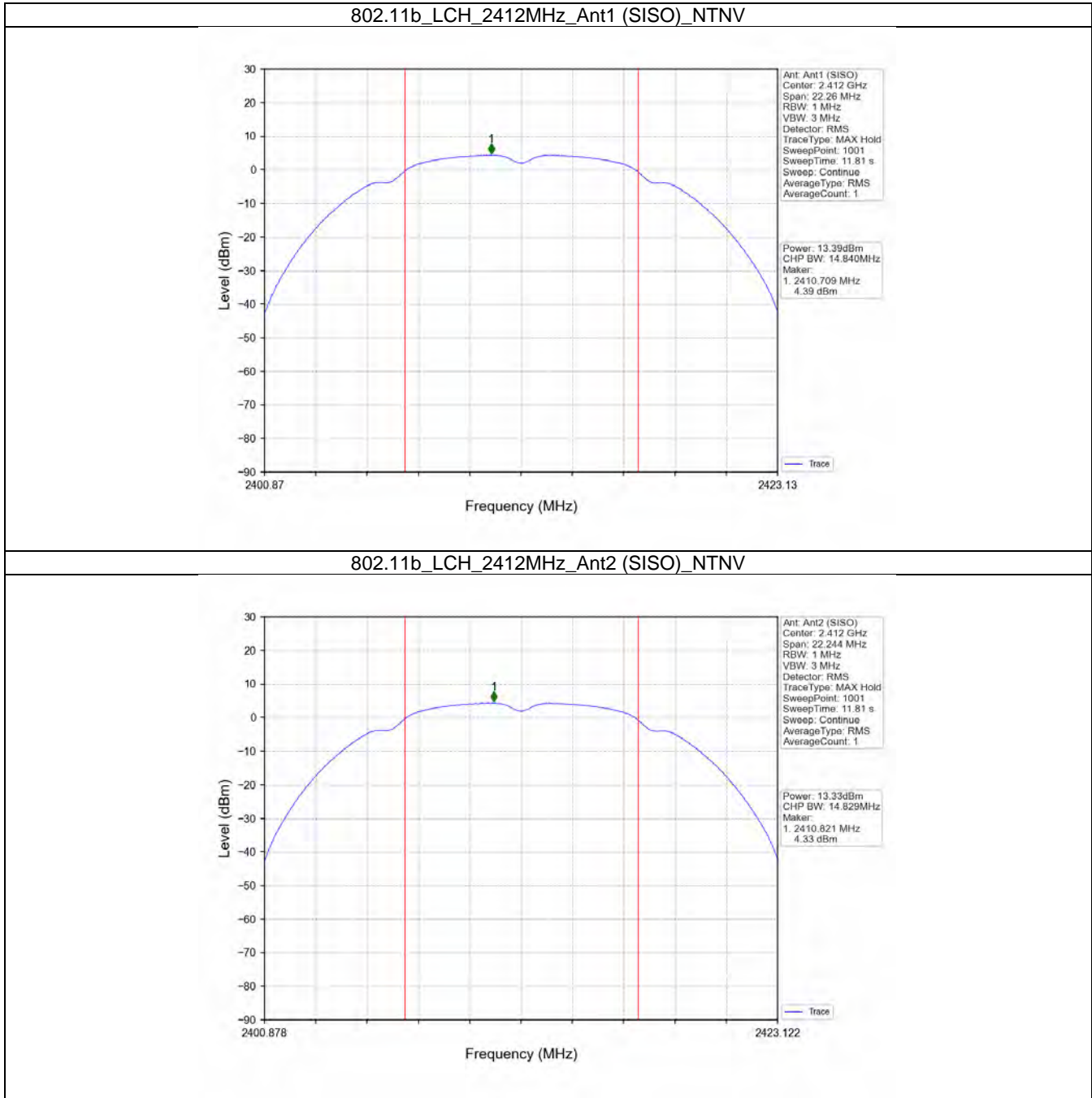
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3.1.2 Test Graph

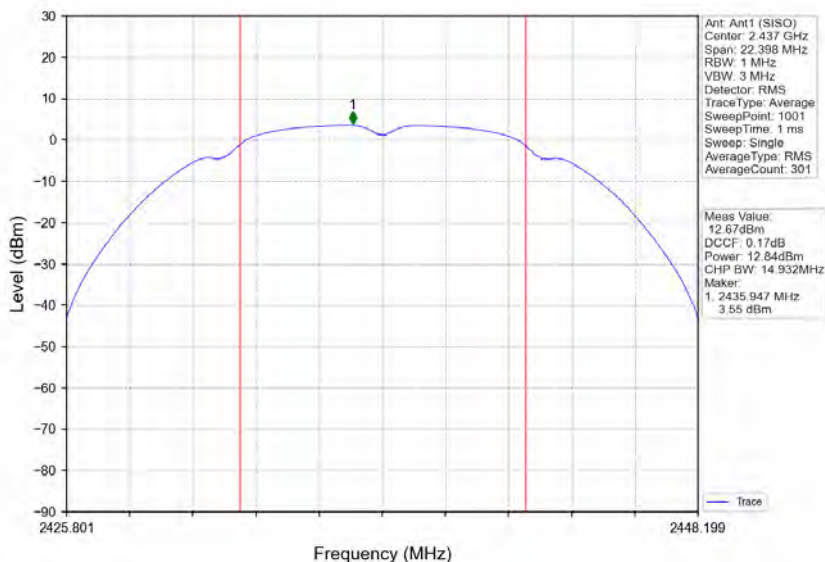


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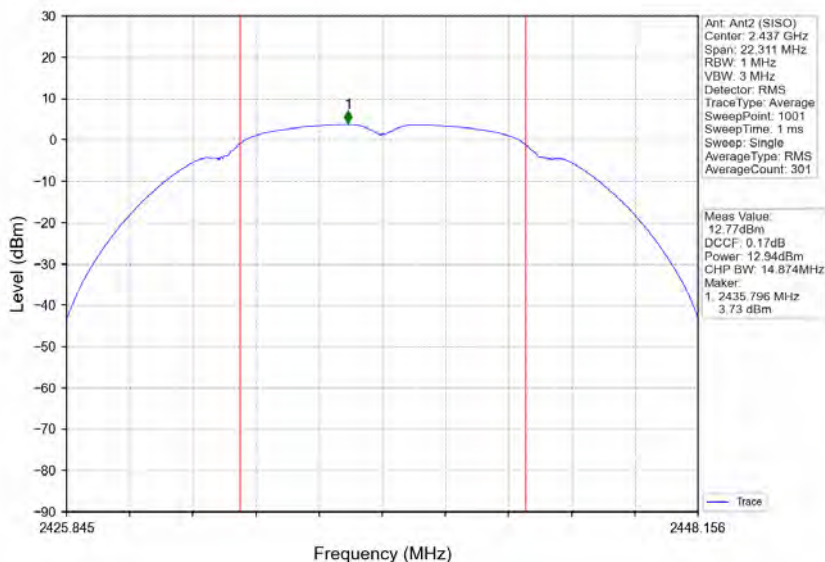
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



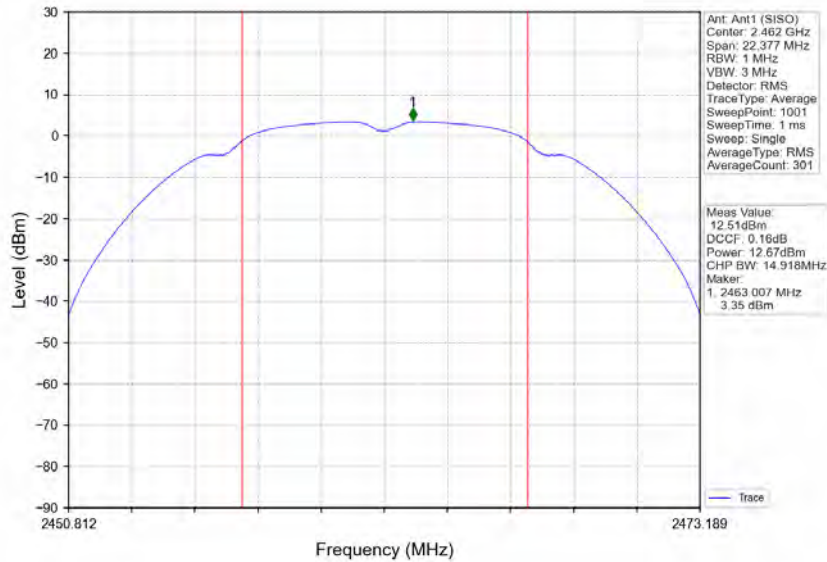
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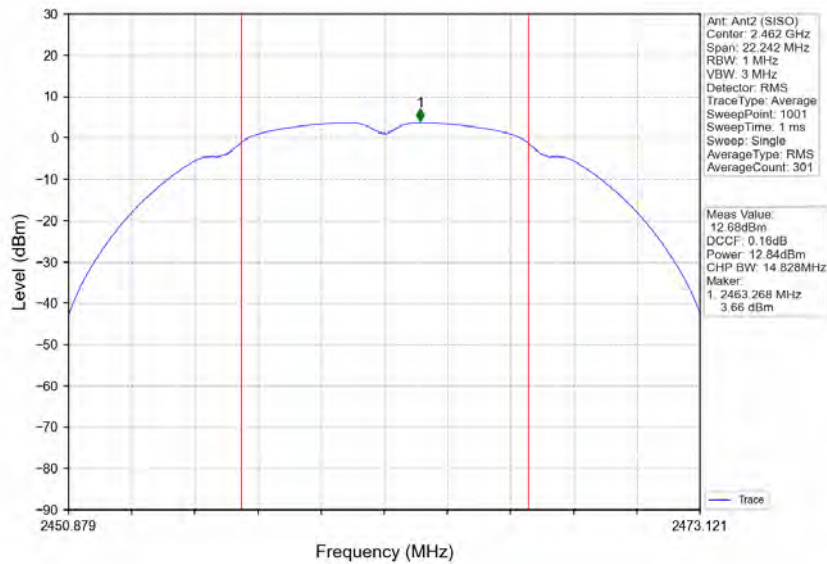
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



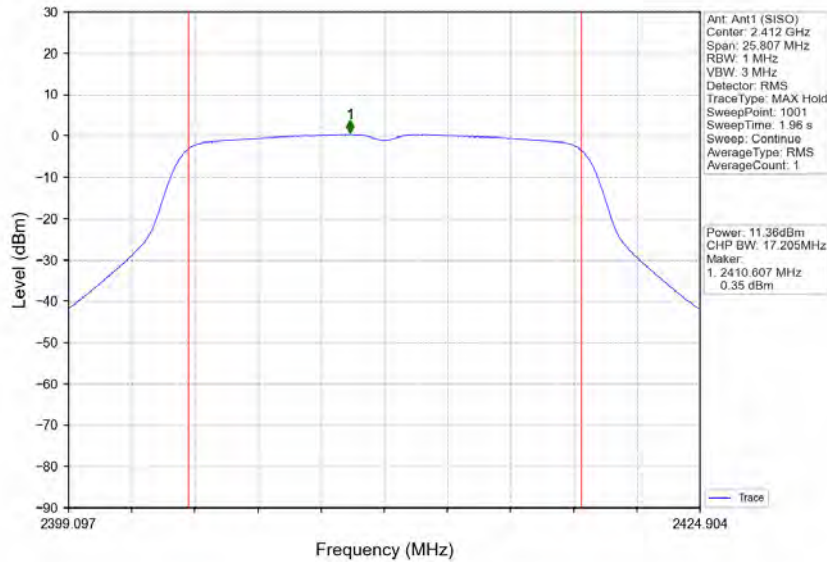
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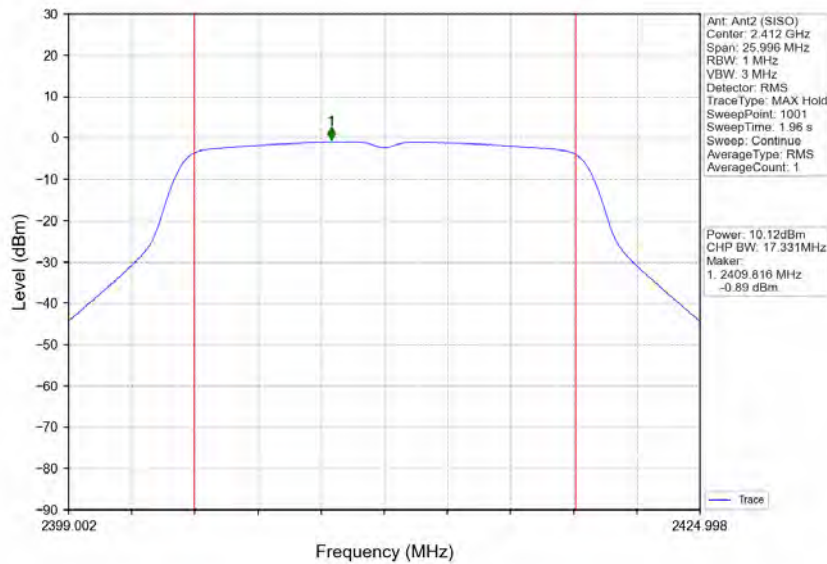
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



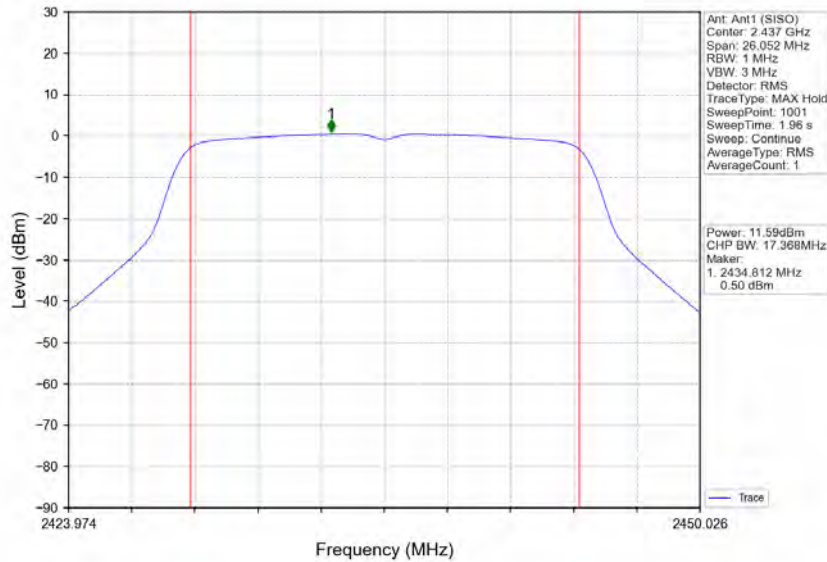
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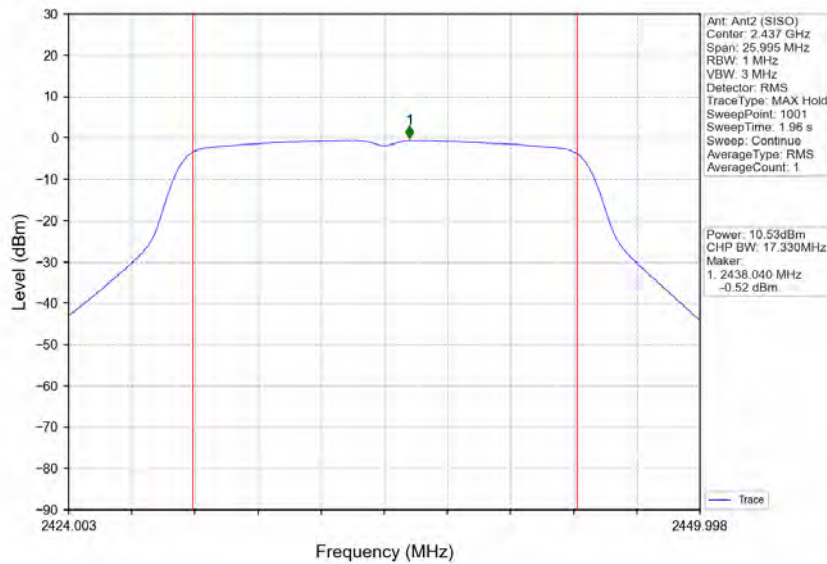
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



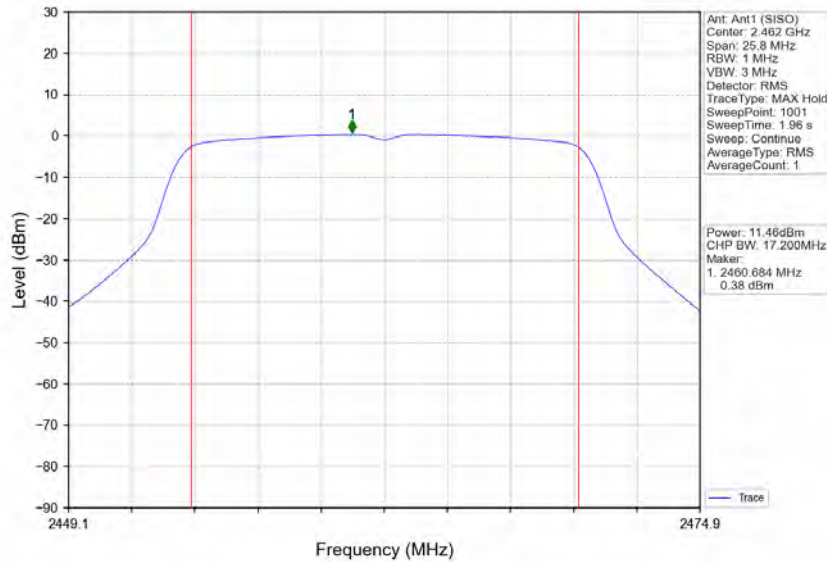
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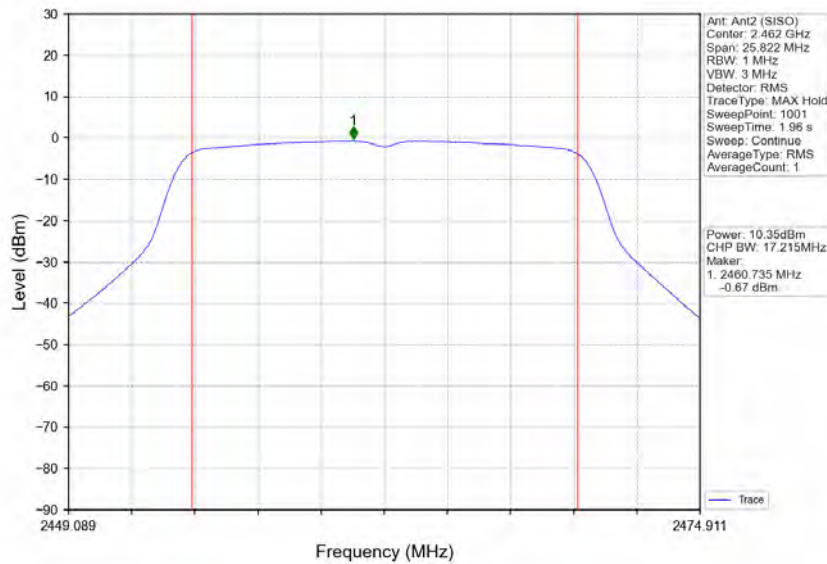
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



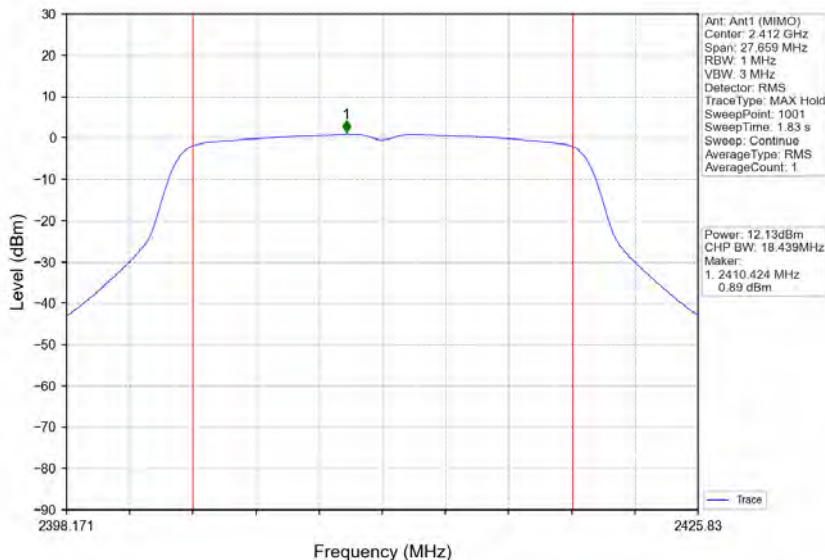
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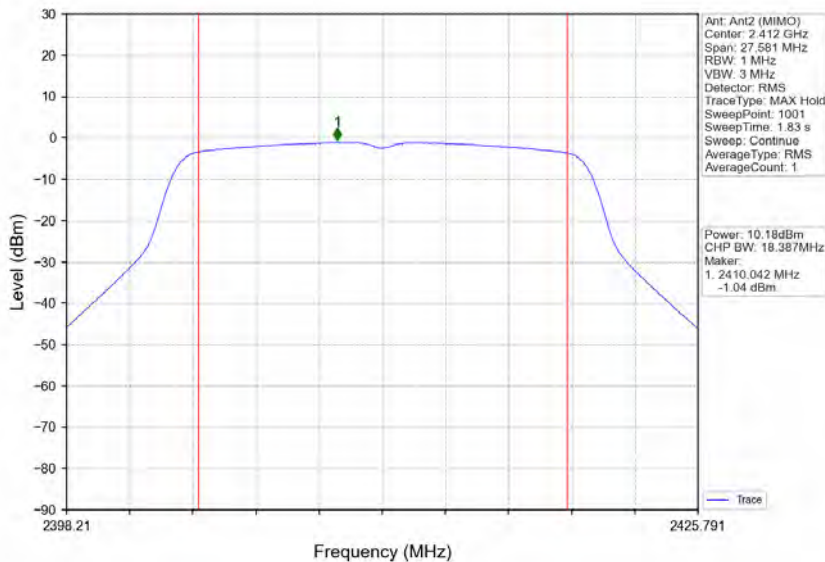
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



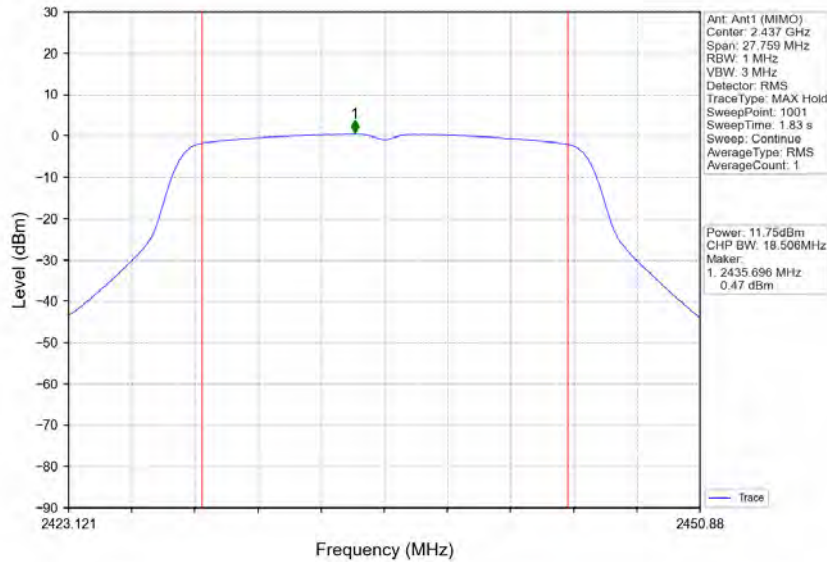
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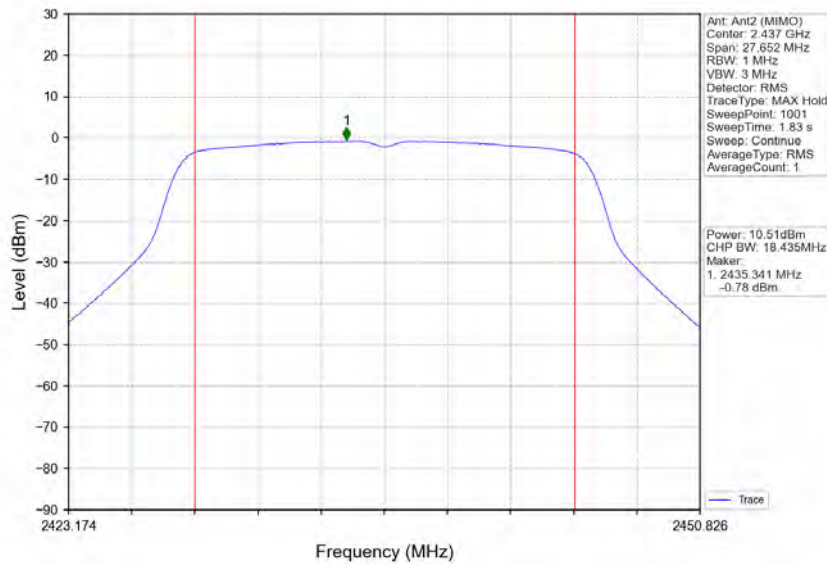
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



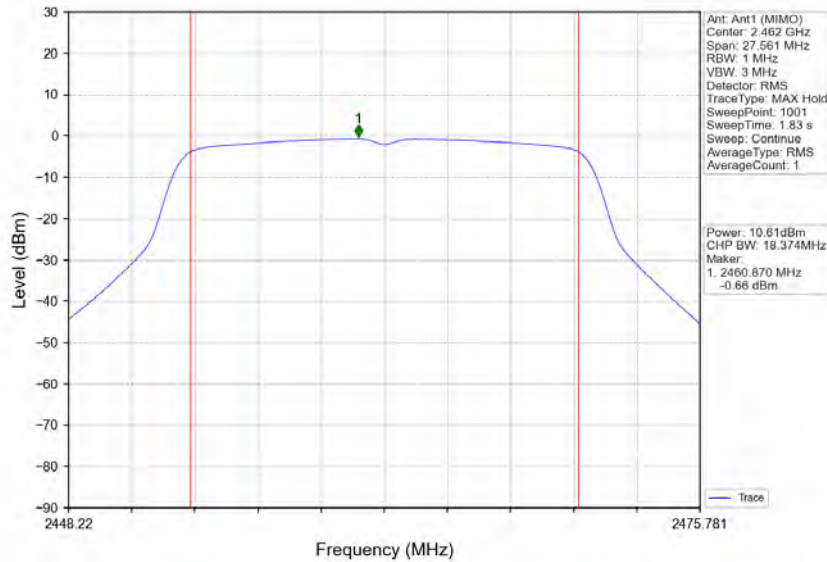
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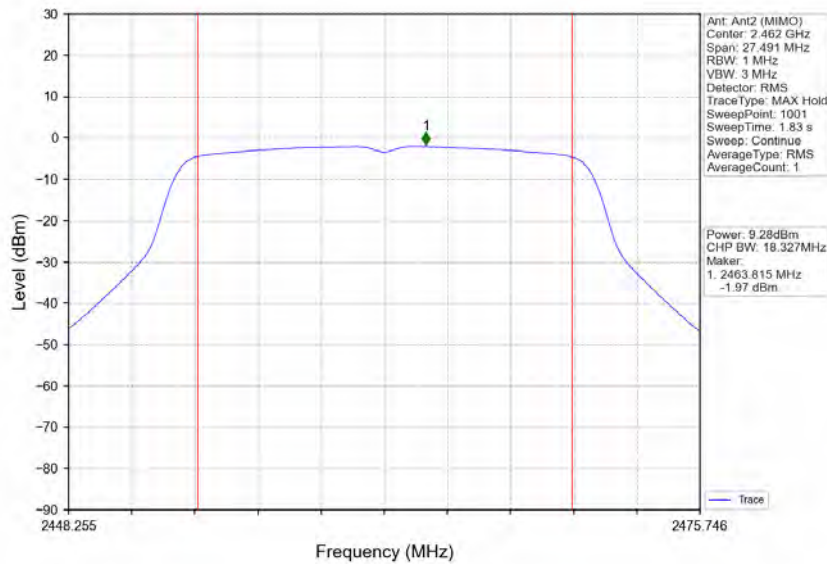
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



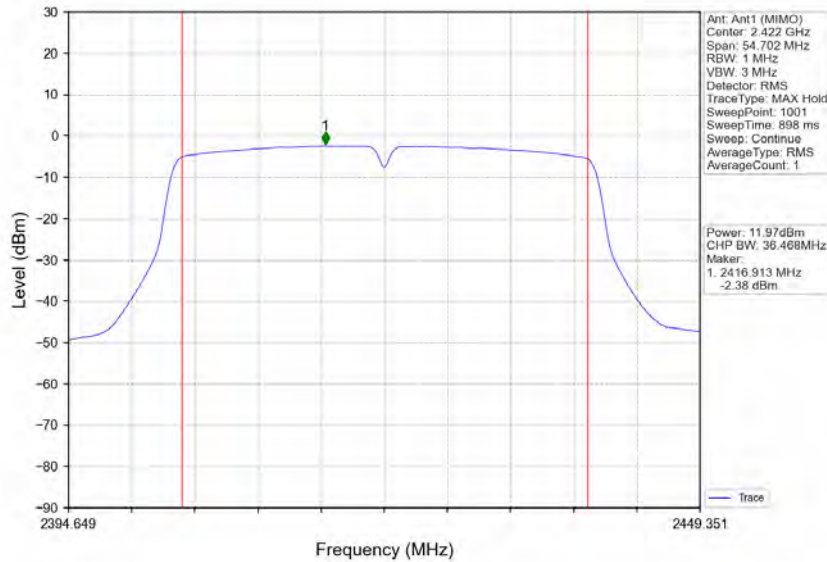
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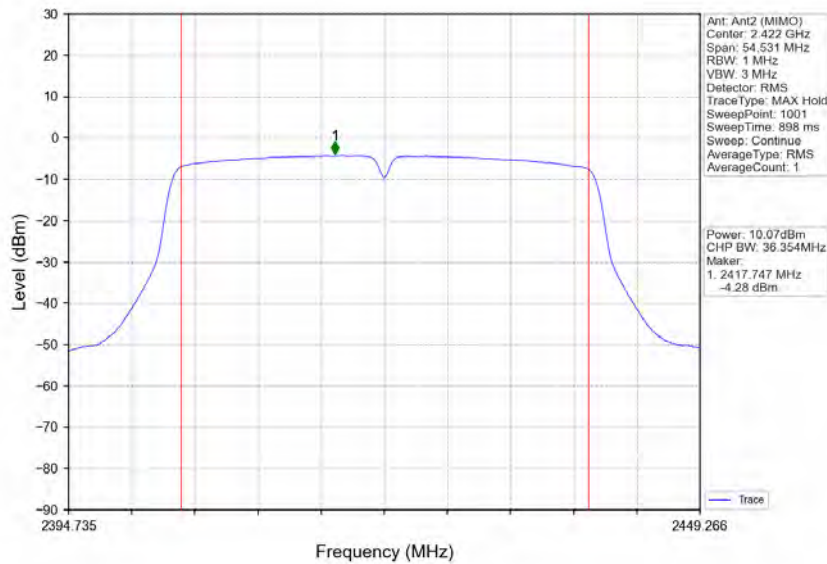
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



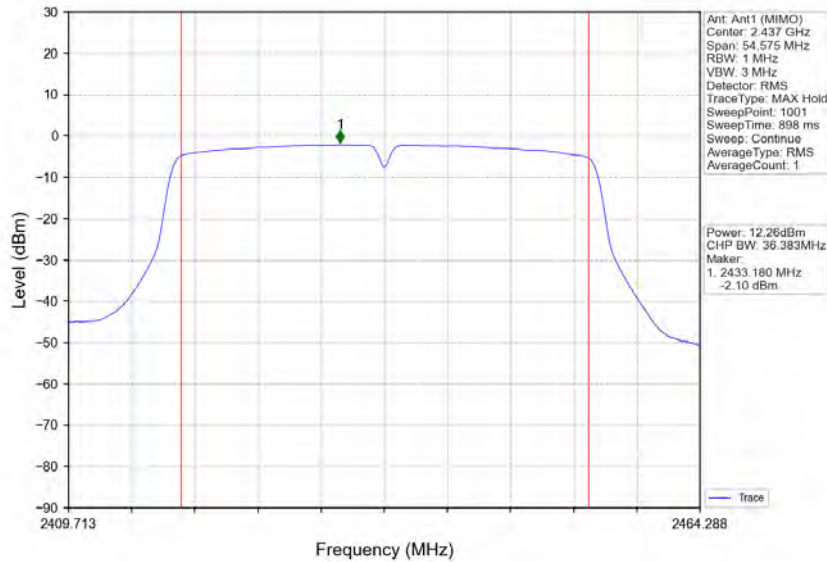
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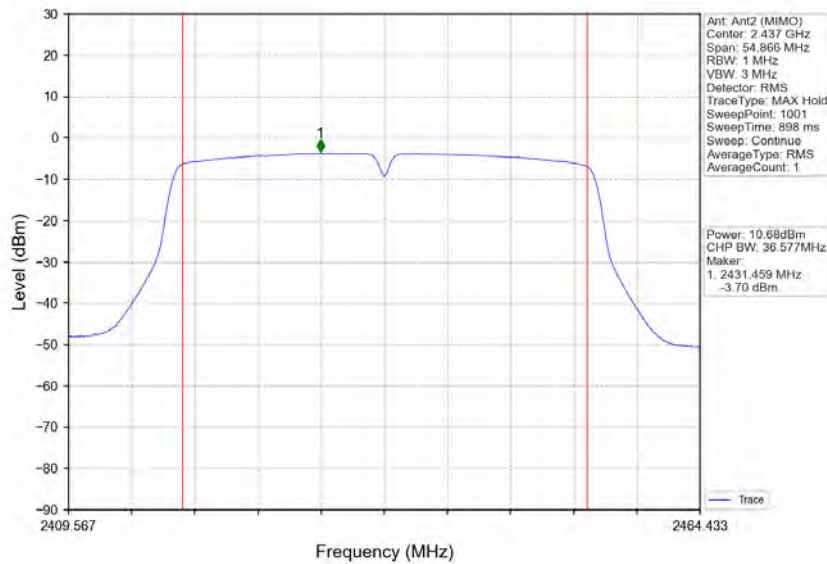
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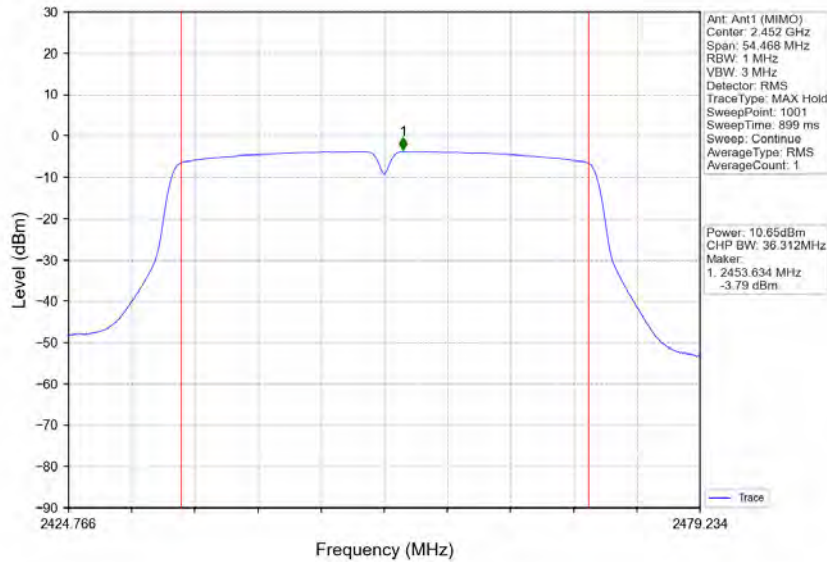
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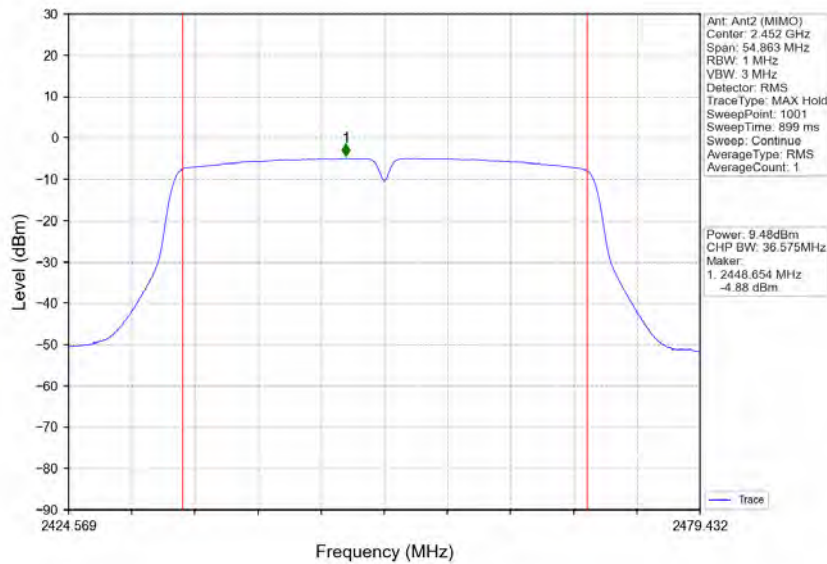
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-10.29	-10.02	/	<=8	Pass
		2437	-10.86	-10.68	/	<=8	Pass
		2462	-11.49	-11.07	/	<=8	Pass
802.11g	SISO	2412	-14.41	-15.67	/	<=8	Pass
		2437	-13.50	-14.21	/	<=8	Pass
		2462	-13.99	-16.03	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-13.32	-15.74	-12.45	<=8	Pass
		2437	-13.32	-14.57	-12.25	<=8	Pass
		2462	-13.80	-16.65	-12.99	<=8	Pass
802.11n (HT40)	MIMO	2422	-16.87	-18.22	-15.35	<=8	Pass
		2437	-16.36	-17.78	-15.22	<=8	Pass
		2452	-17.05	-19.50	-15.23	<=8	Pass

Note1: Antenna Gain: Ant1: -3.82dBi; Ant2: 0.97dBi;
 Note2: Directional Gain: 1.91dBi



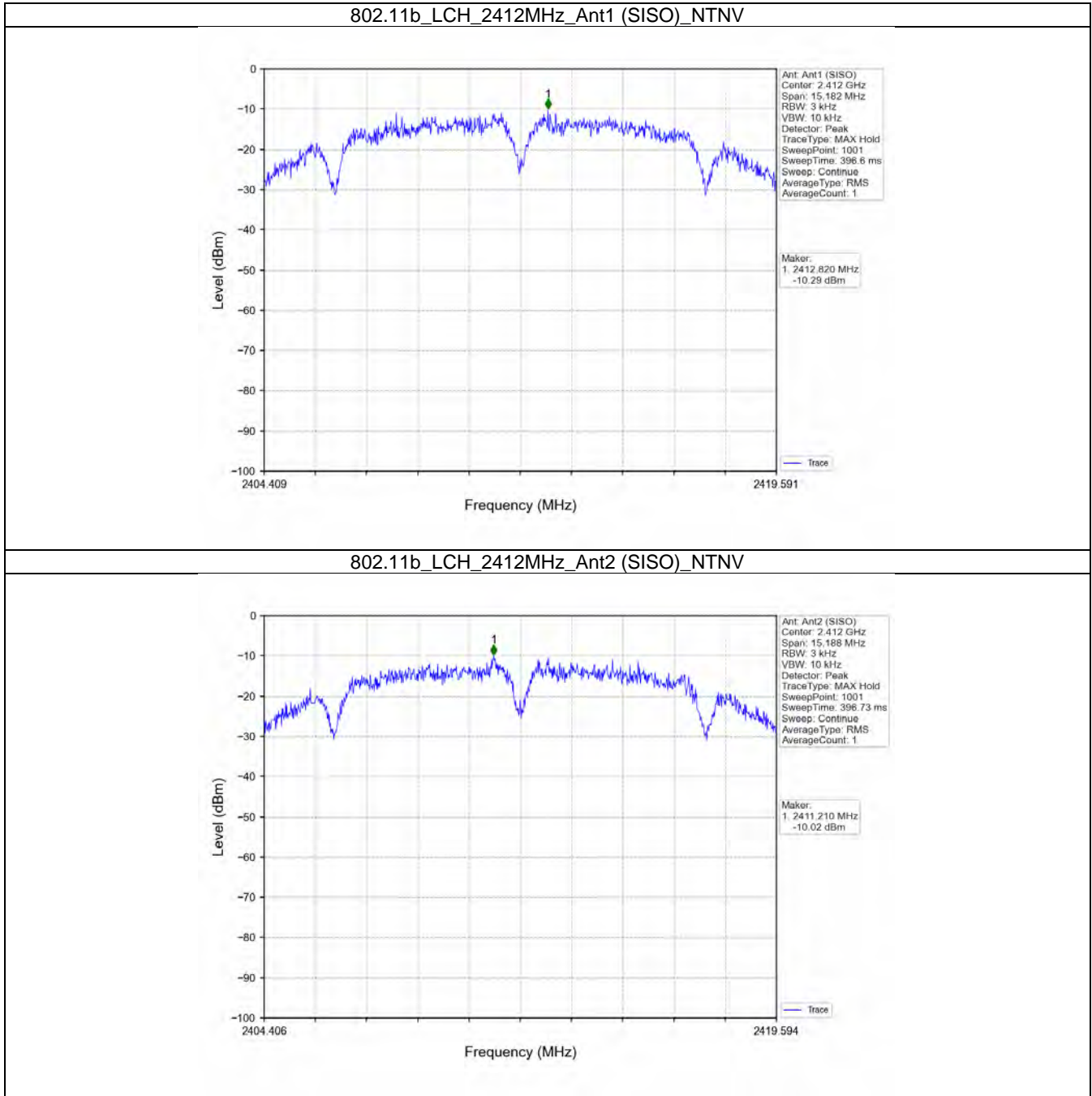
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4.1.2 Test Graph



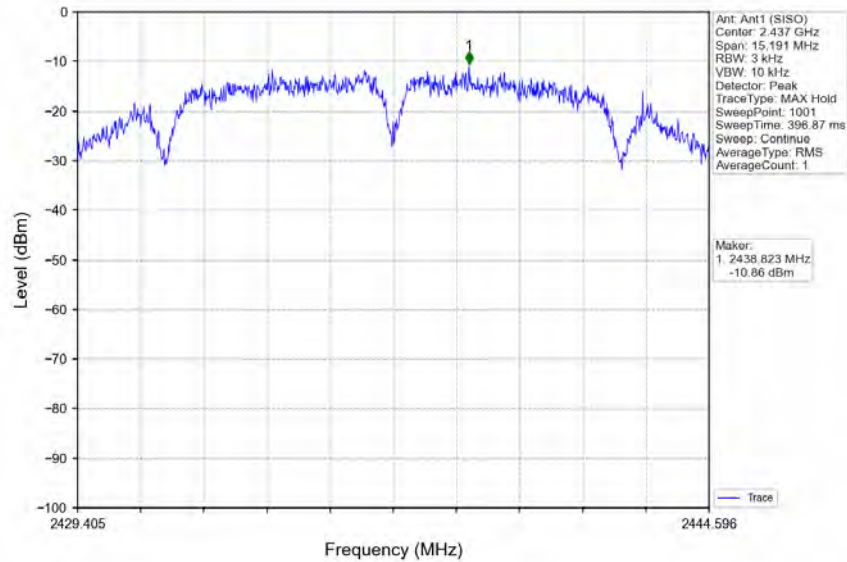
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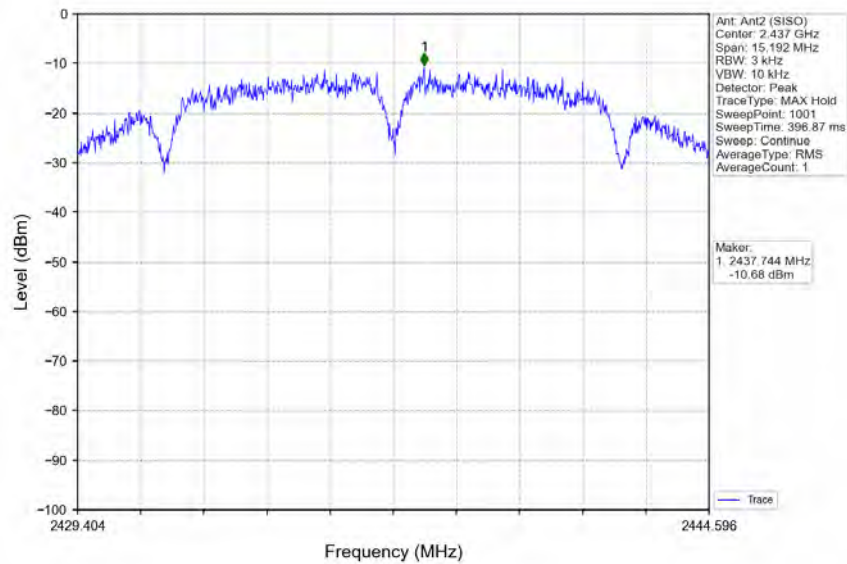
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



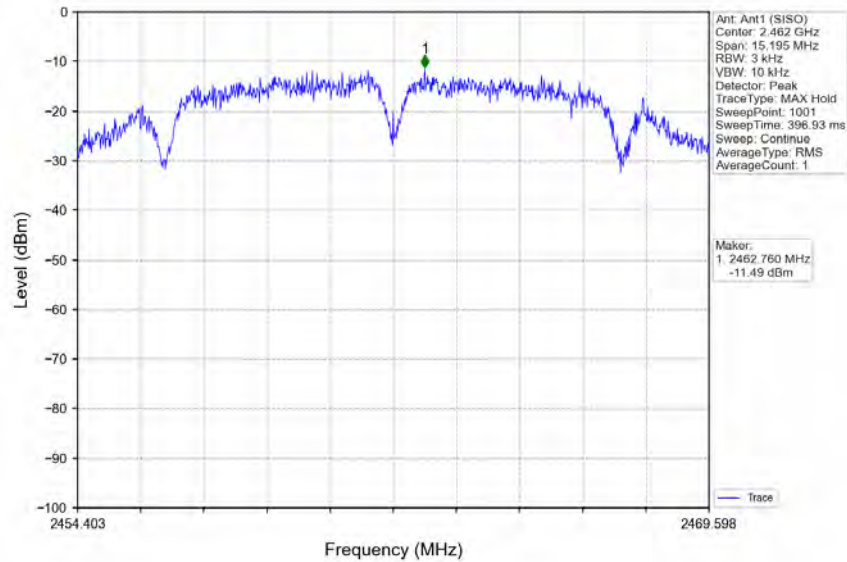
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



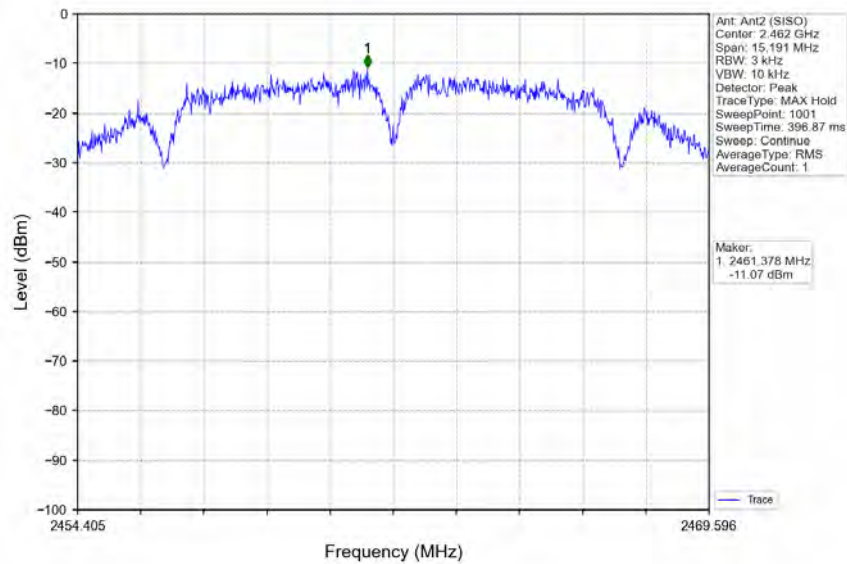
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



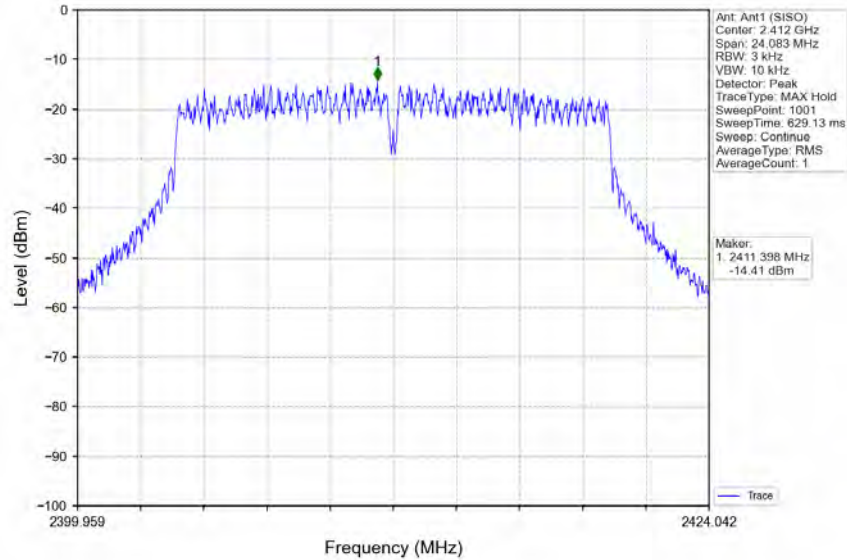
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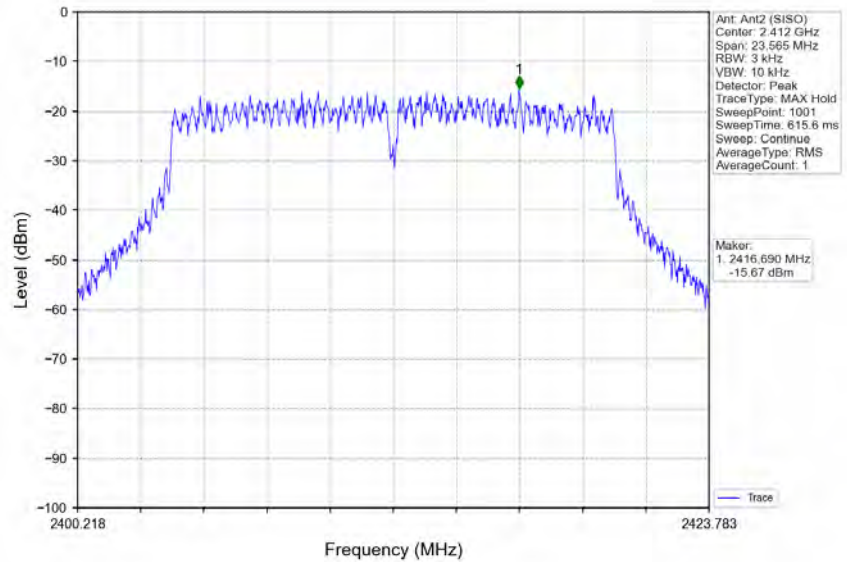
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



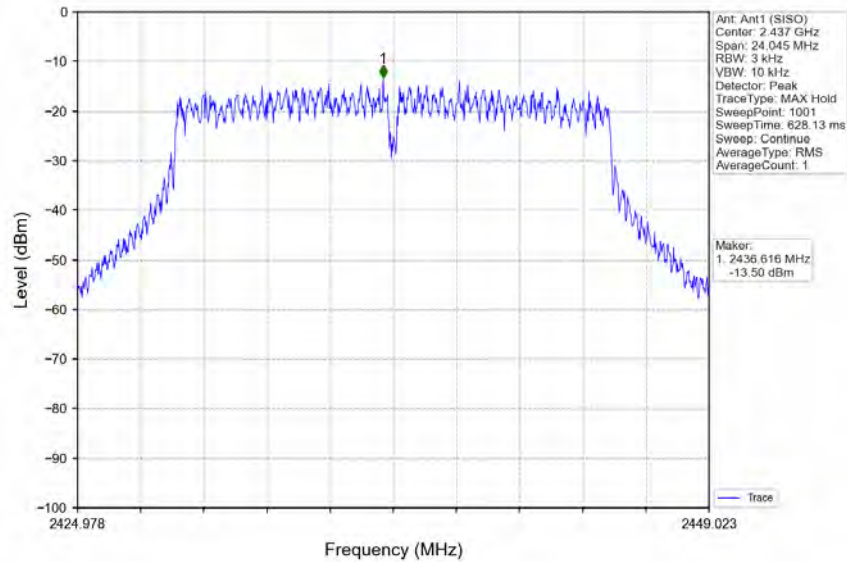
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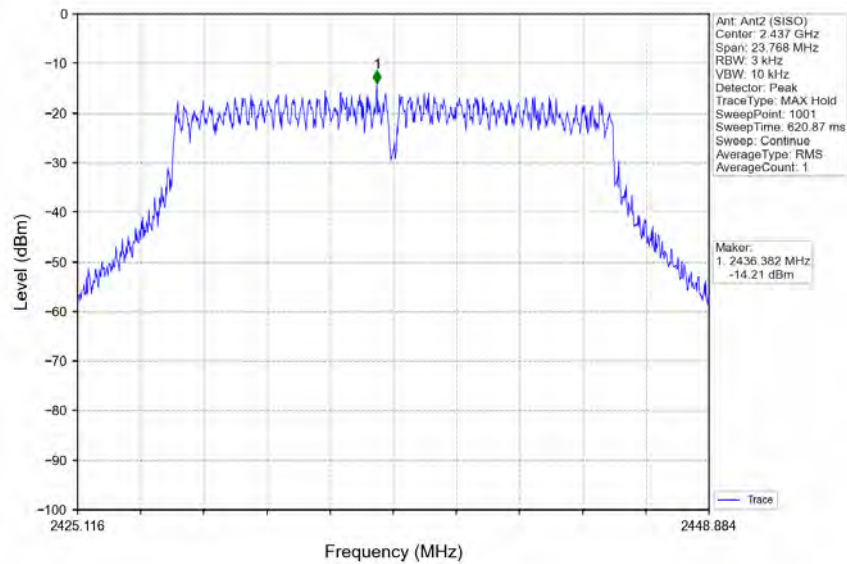
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



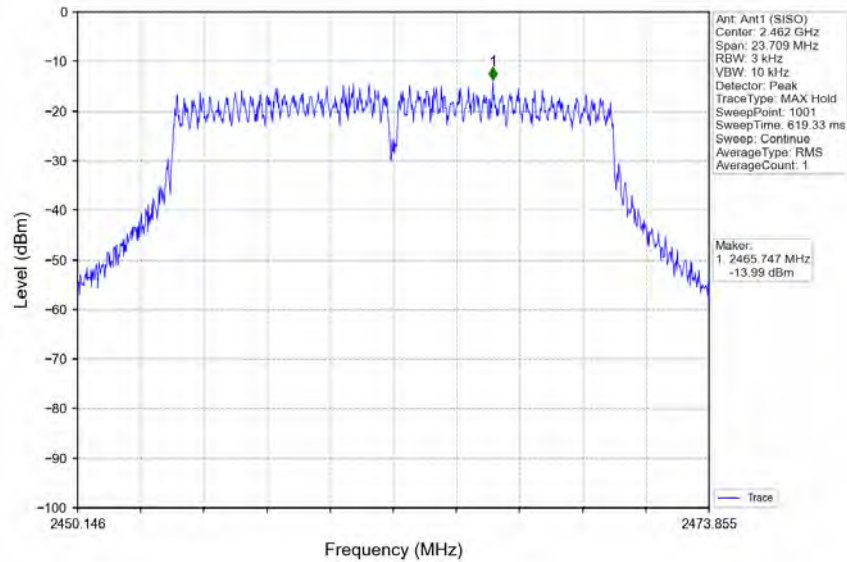
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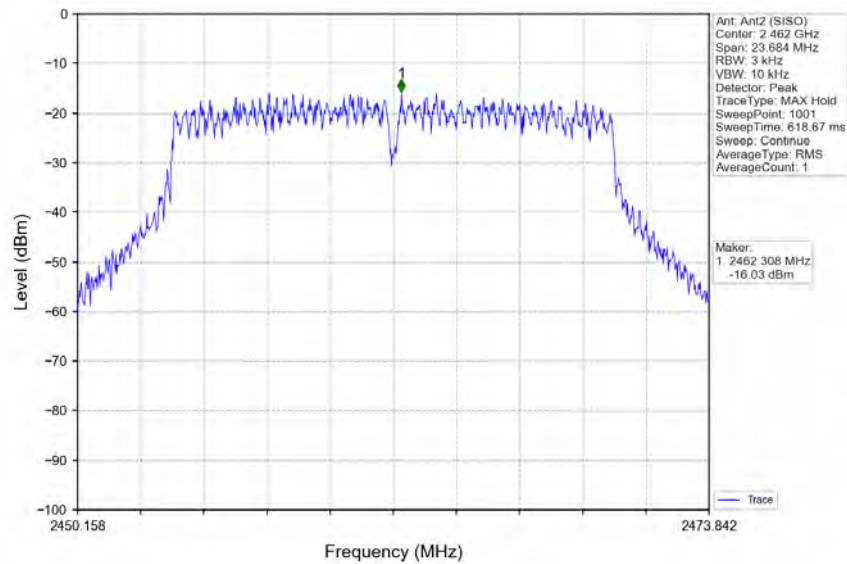
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



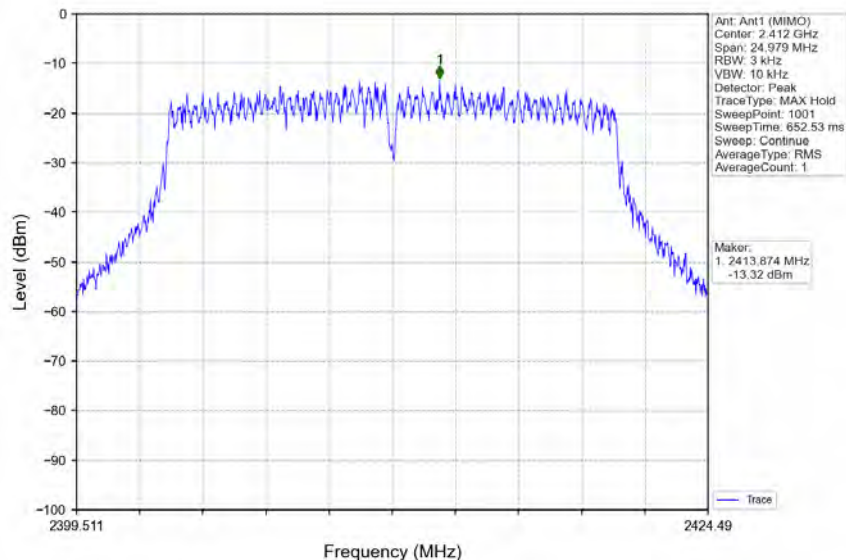
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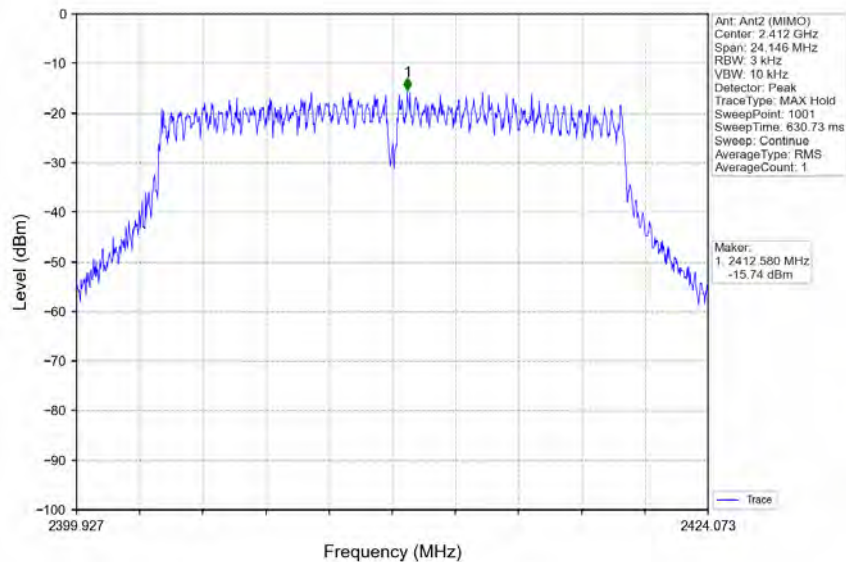
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



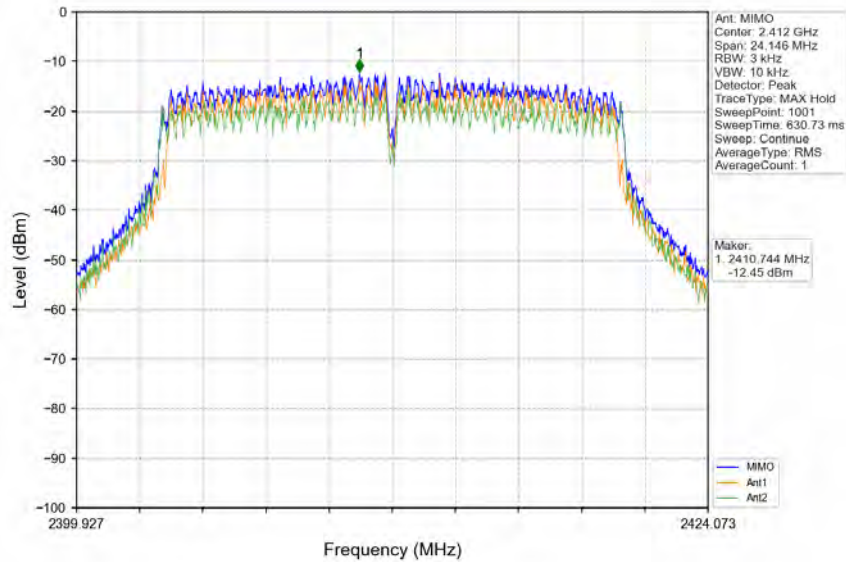
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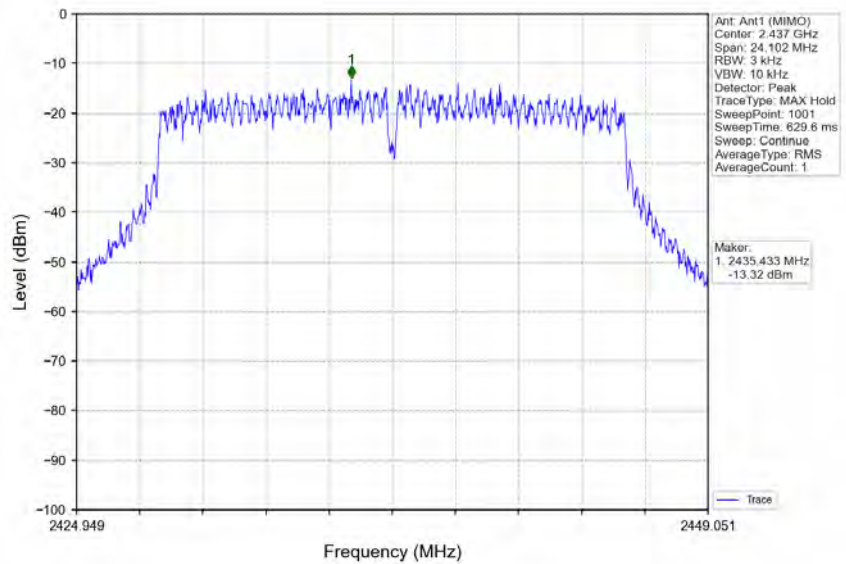
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

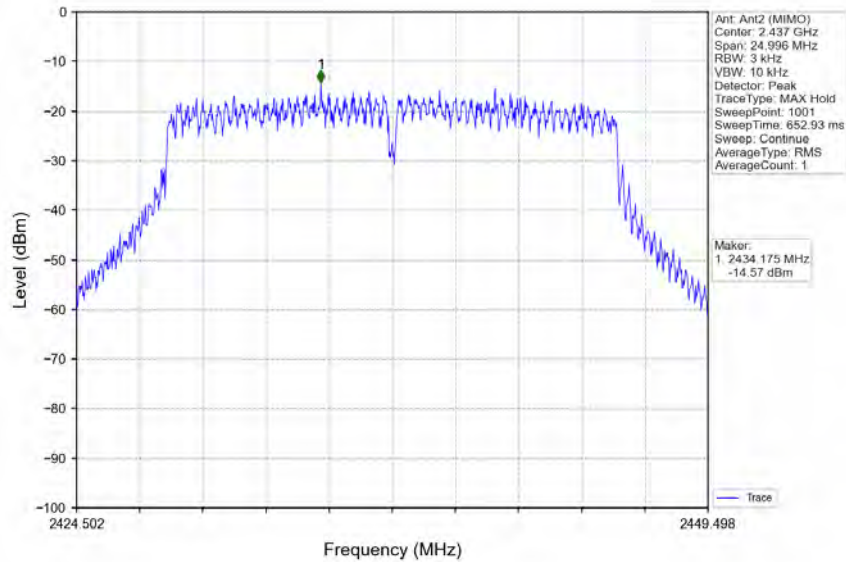


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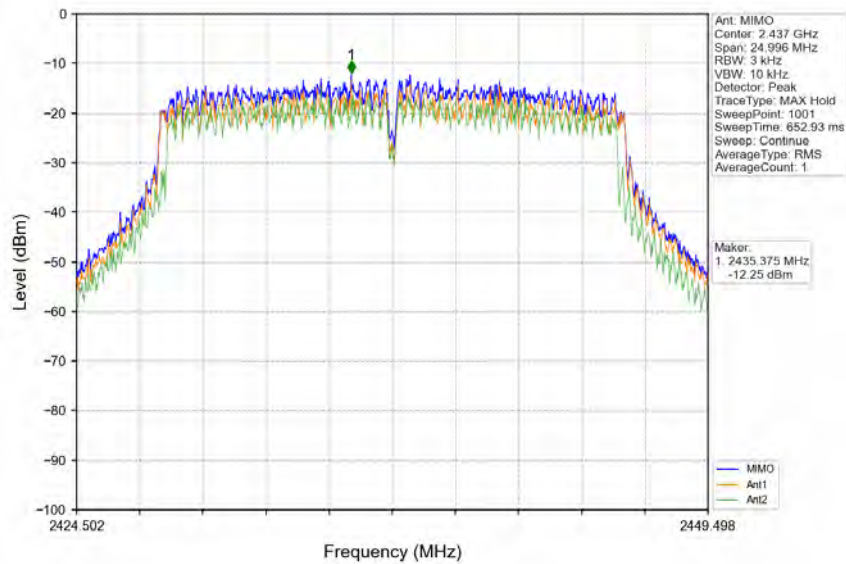
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



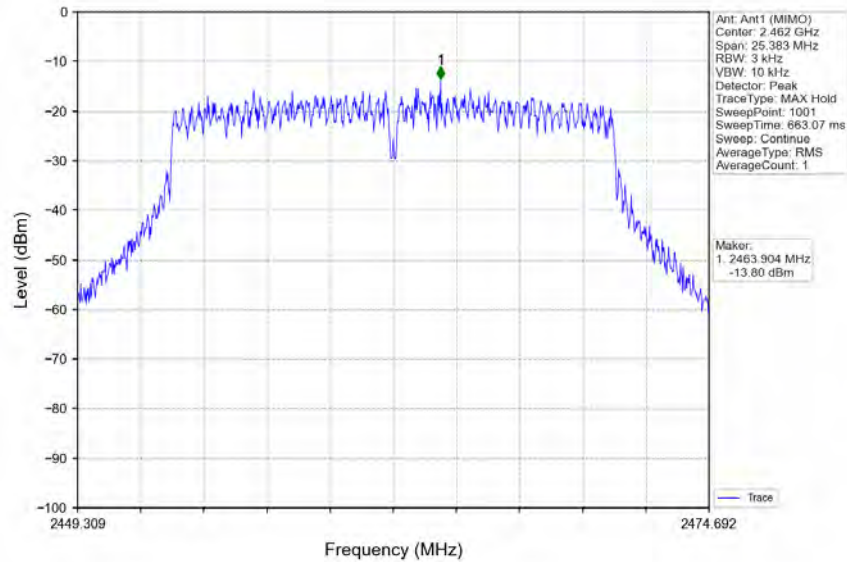
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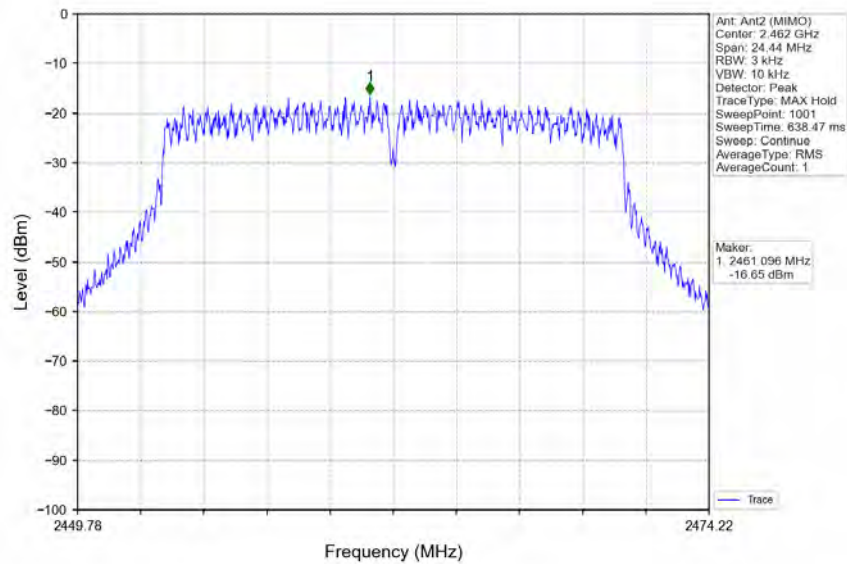
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



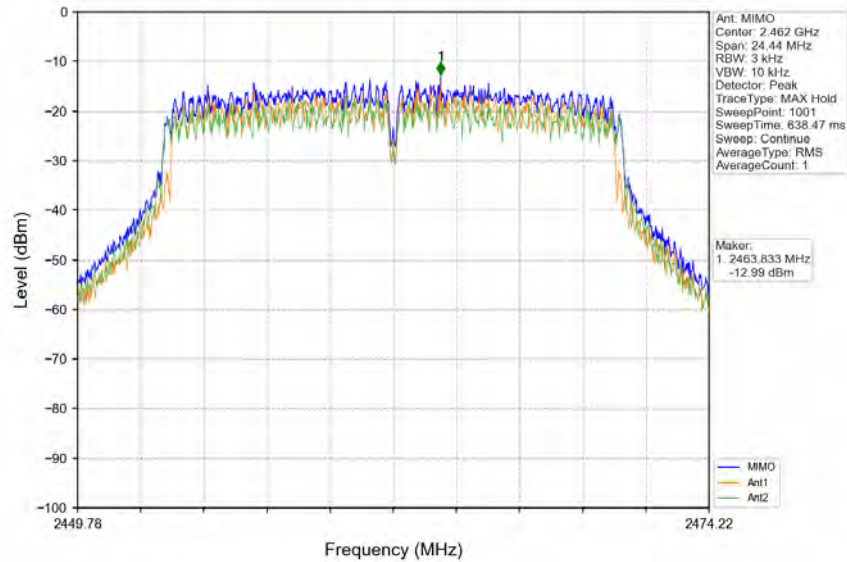
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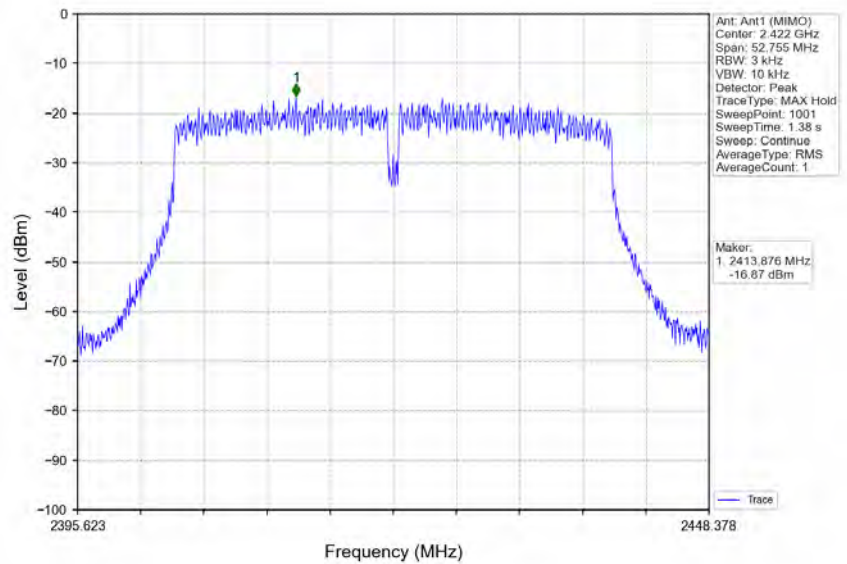
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802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



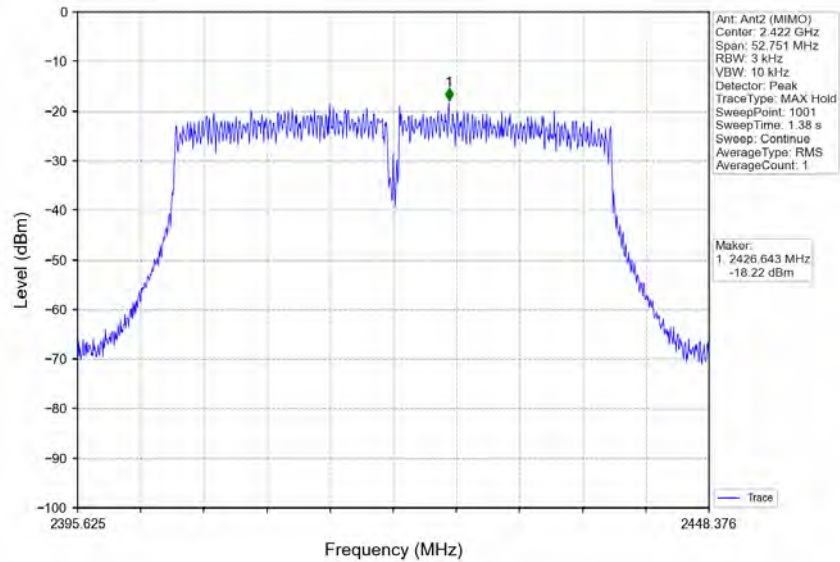
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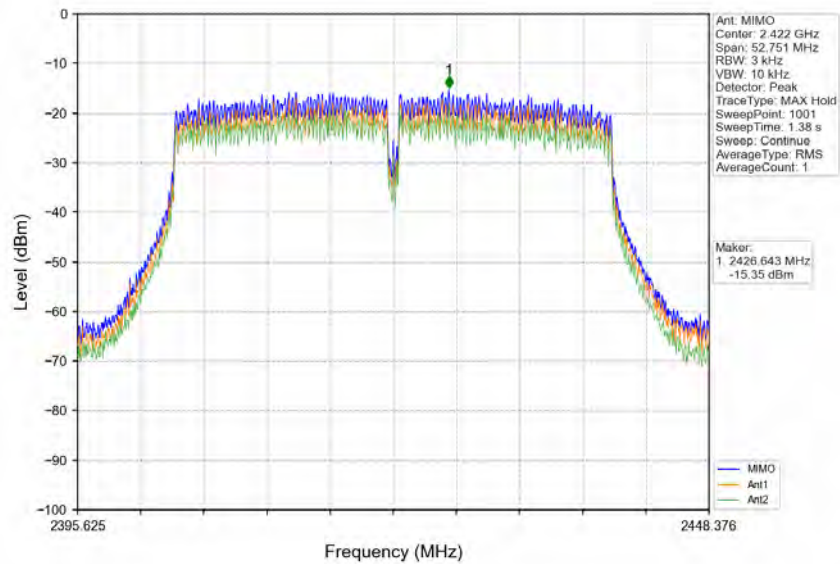
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_MIMO_NTNV



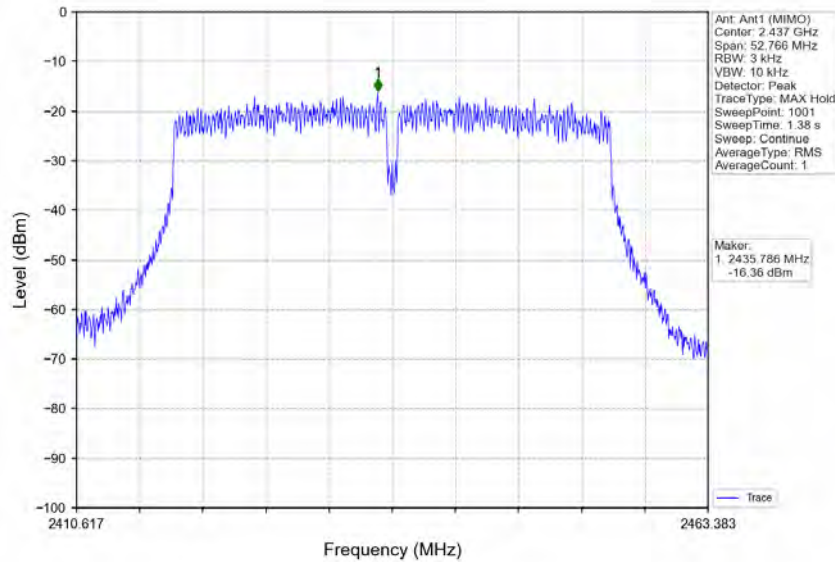
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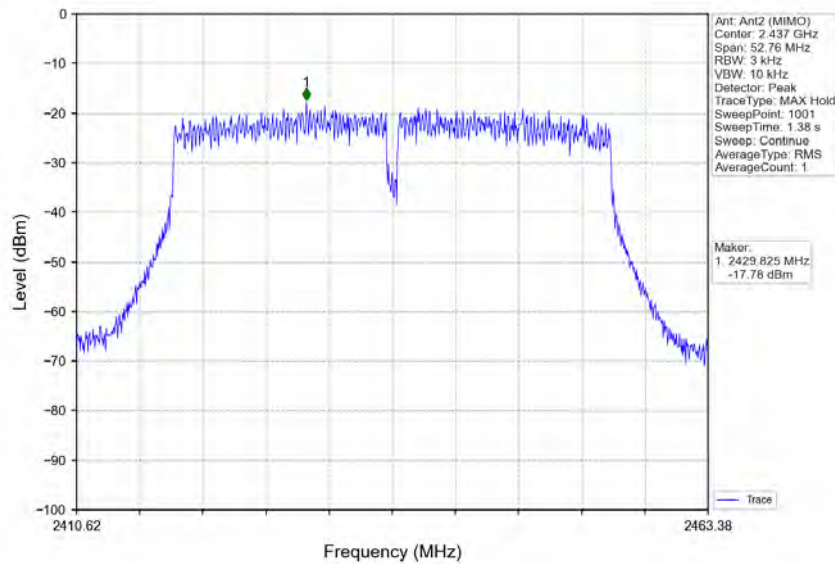
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



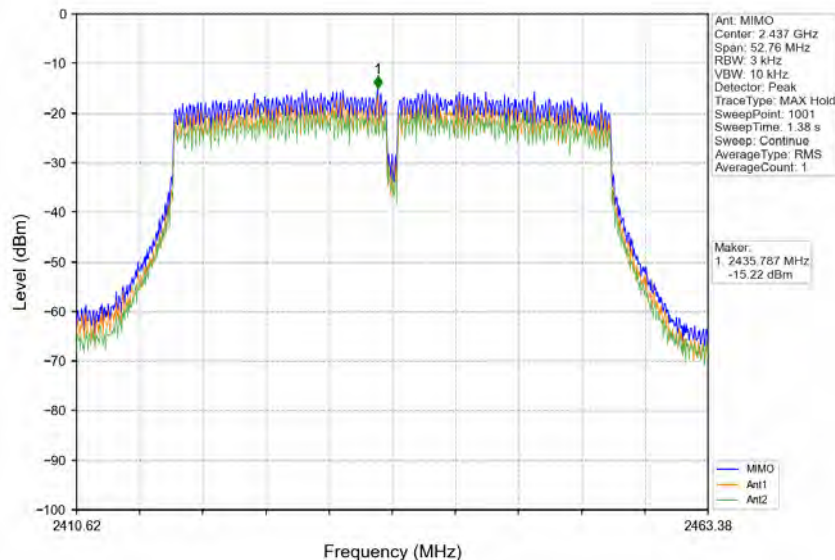
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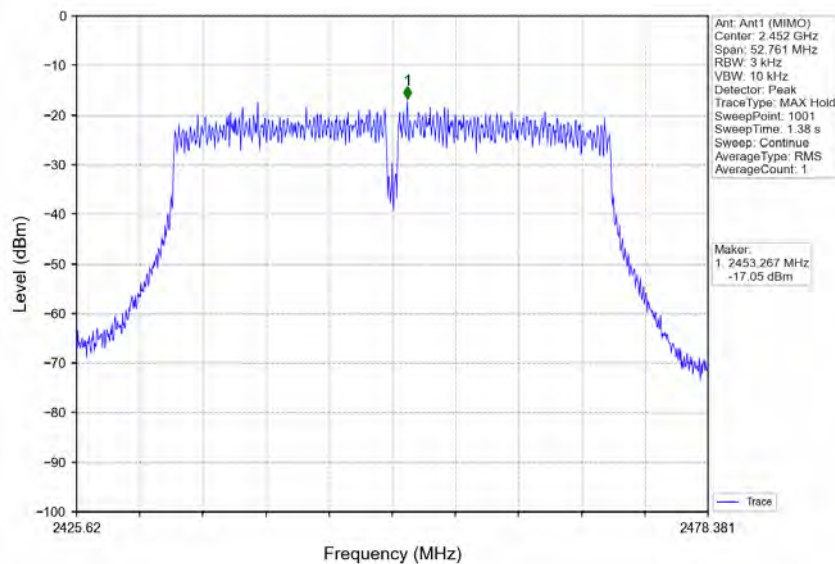
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802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



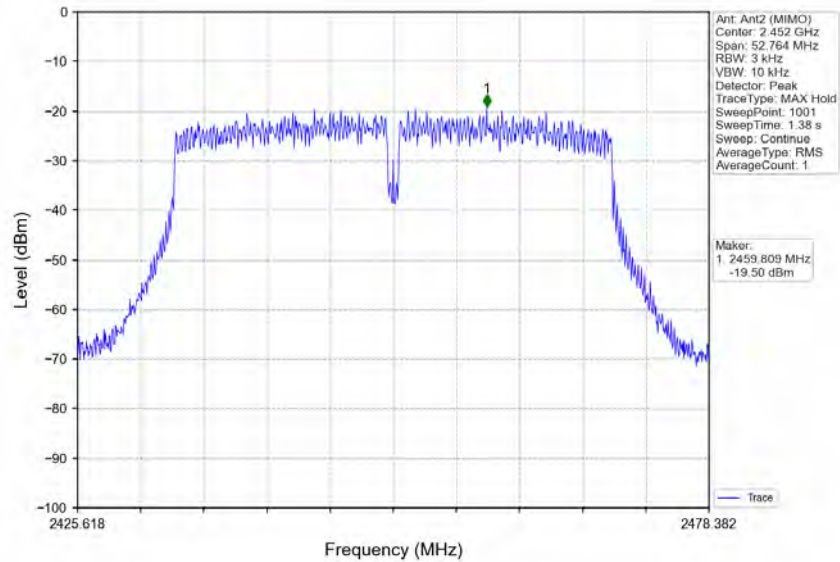
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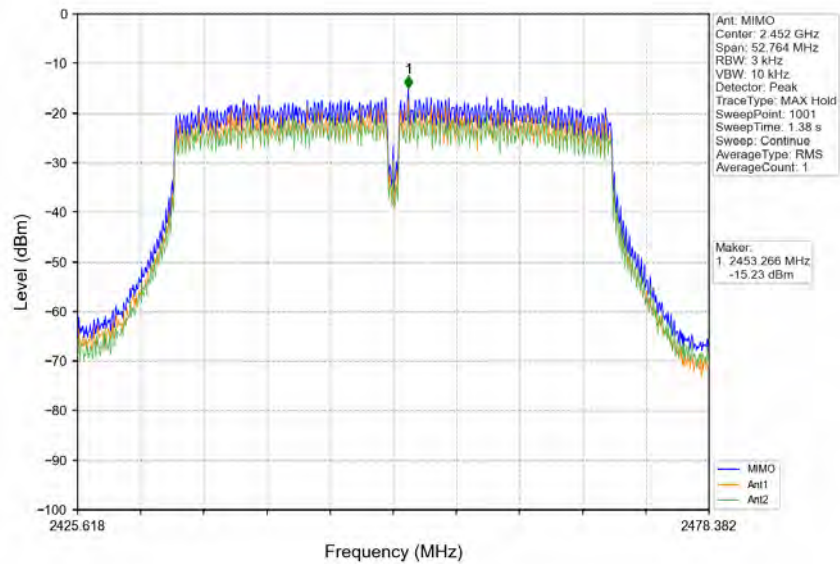
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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	3.75
			2	4.01
		2437	1	3.36
			2	3.28
		2462	1	2.68
			2	3.16
802.11g	SISO	2412	1	0.33
			2	-0.88
		2437	1	0.49
			2	-0.57
		2462	1	0.36
			2	-0.69
802.11n (HT20)	MIMO	2412	1	1.10
			2	-1.24
		2437	1	0.72
			2	-0.48
		2462	1	-0.27
			2	-1.63
802.11n (HT40)	MIMO	2422	1	-1.79
			2	-3.71
		2437	1	-1.51
			2	-3.11
		2452	1	-3.17
			2	-4.29

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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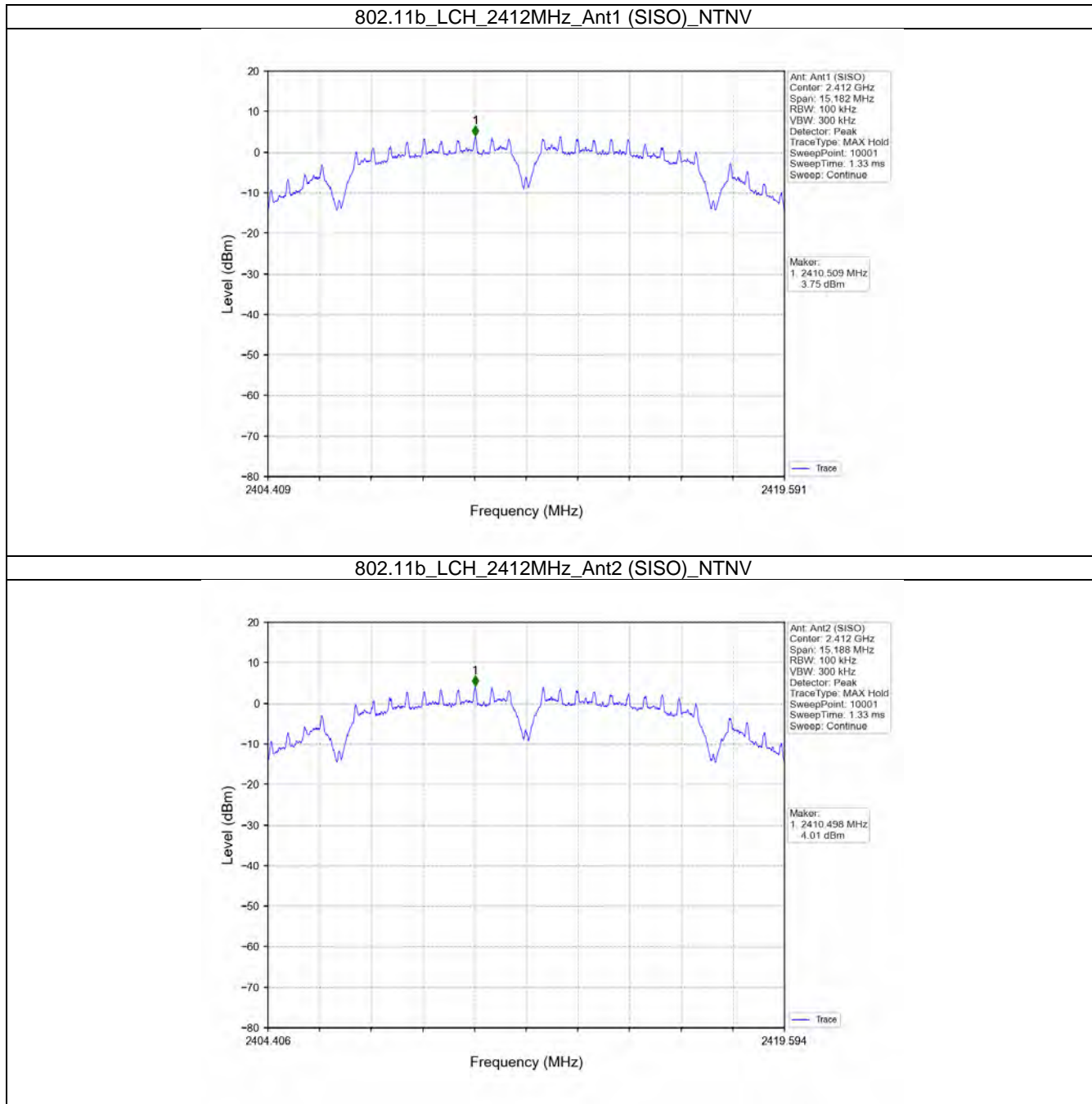
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5.1.2 Test Graph



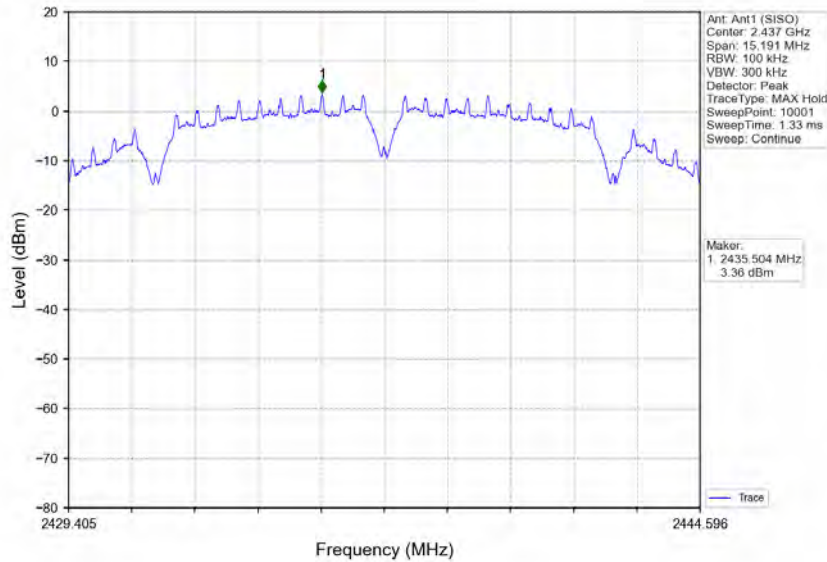
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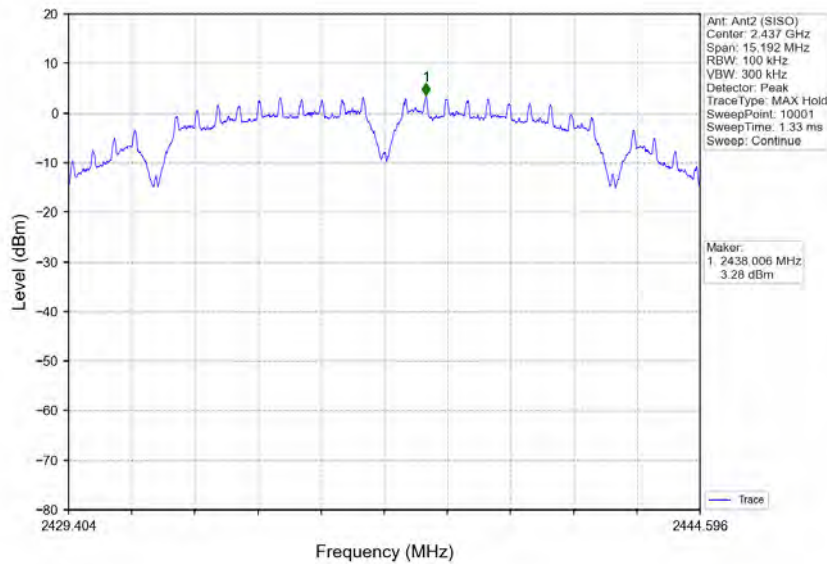
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

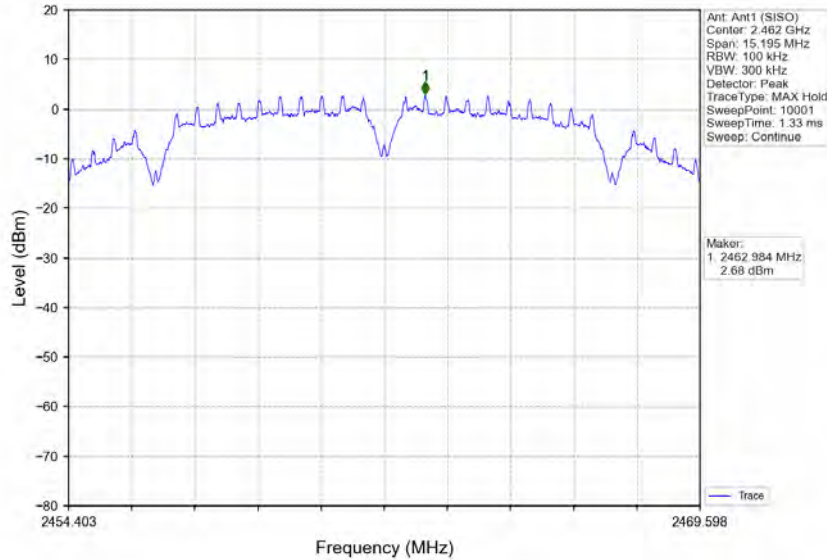


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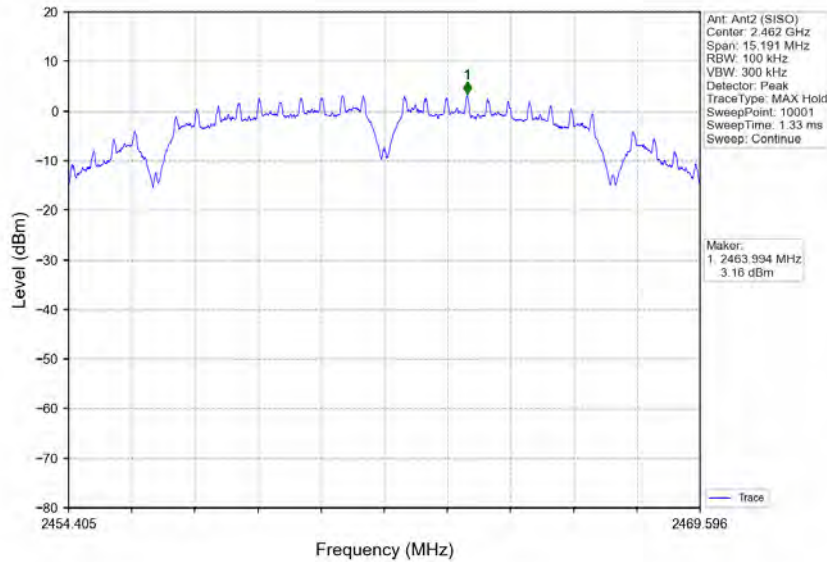
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



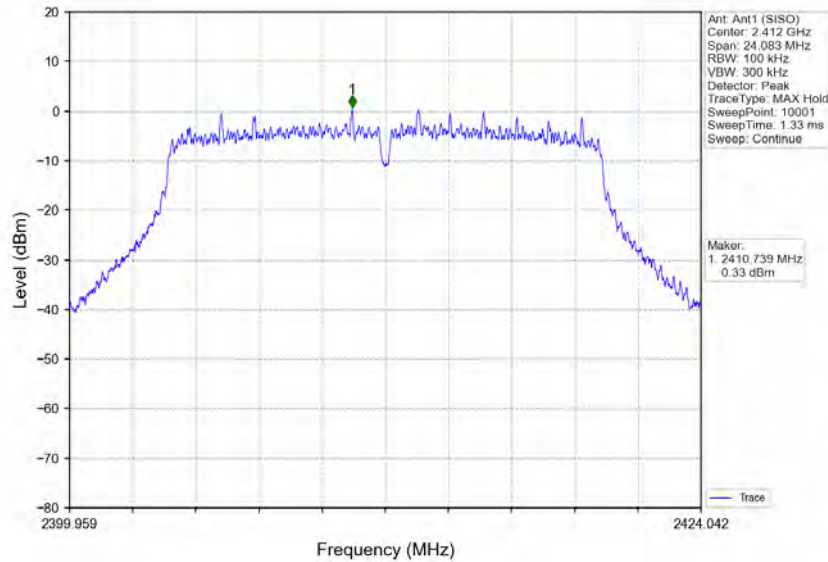
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



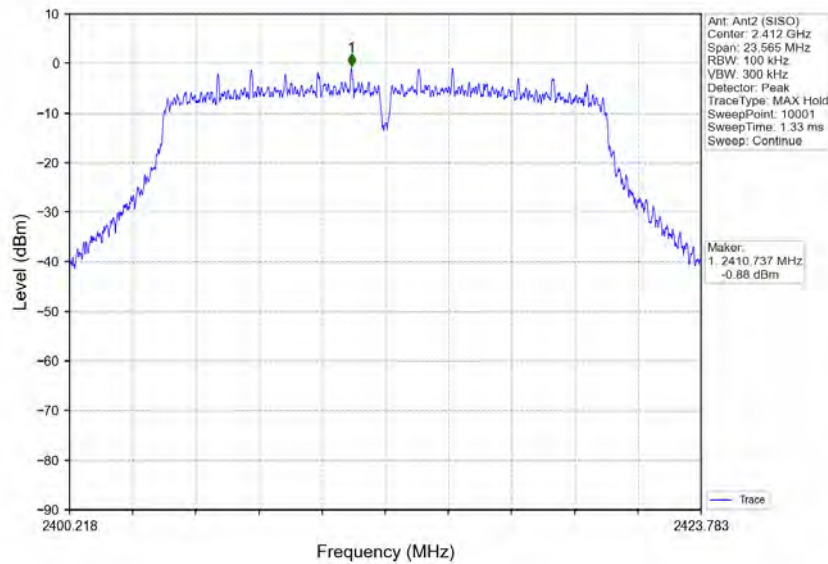
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



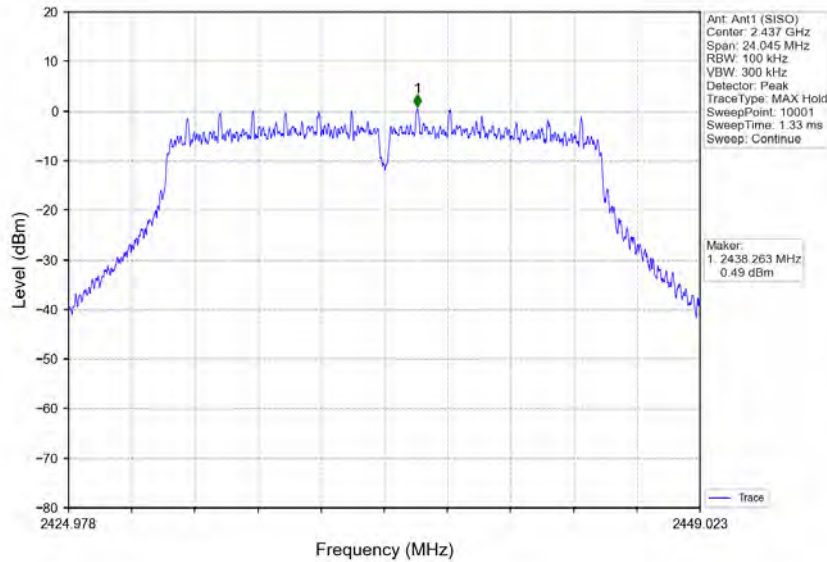
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



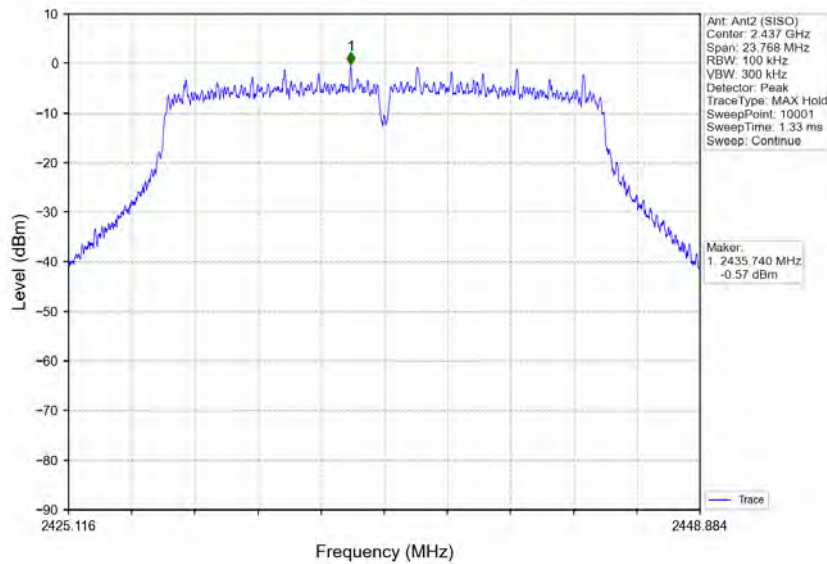
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



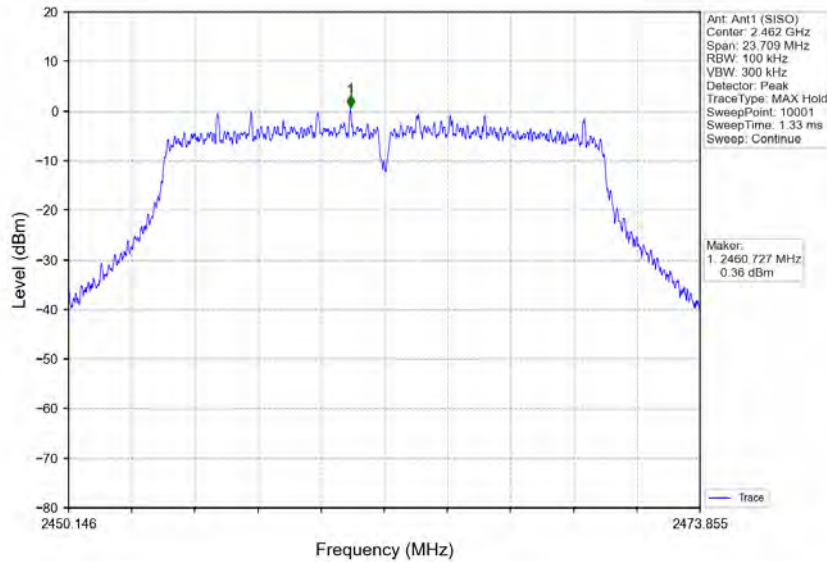
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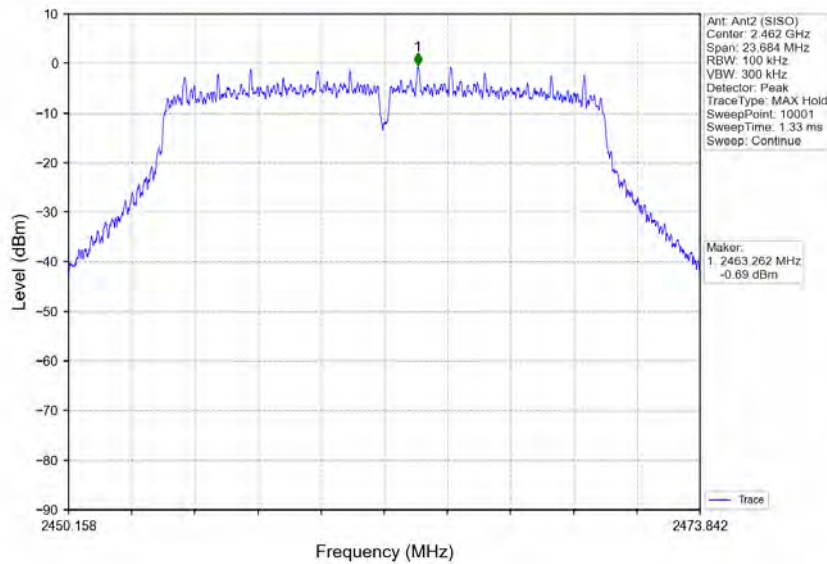
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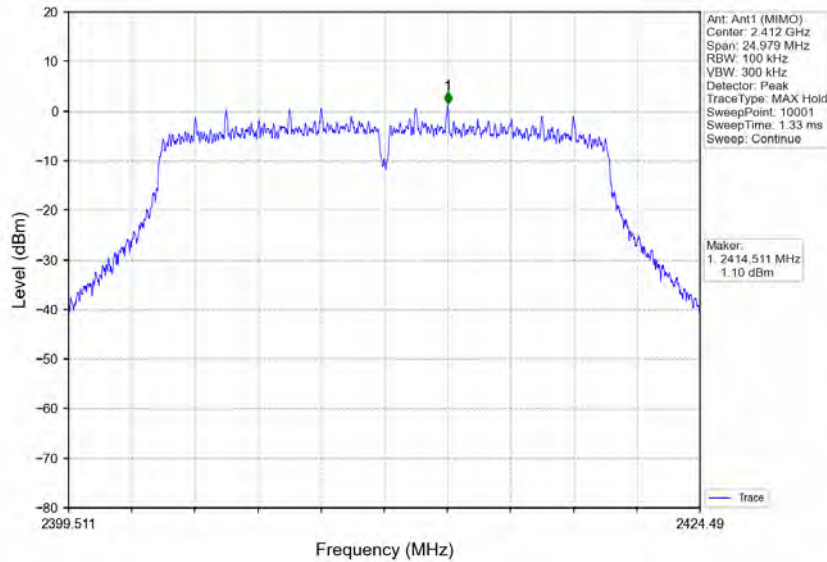
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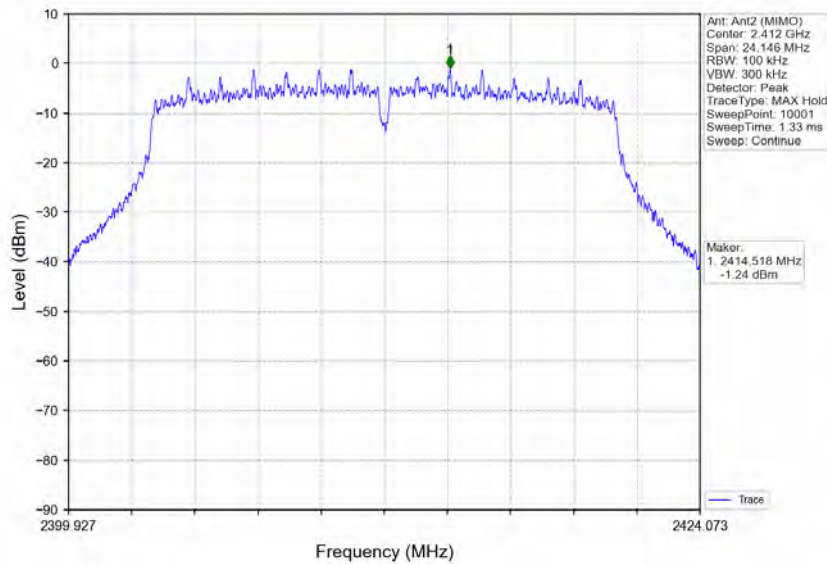
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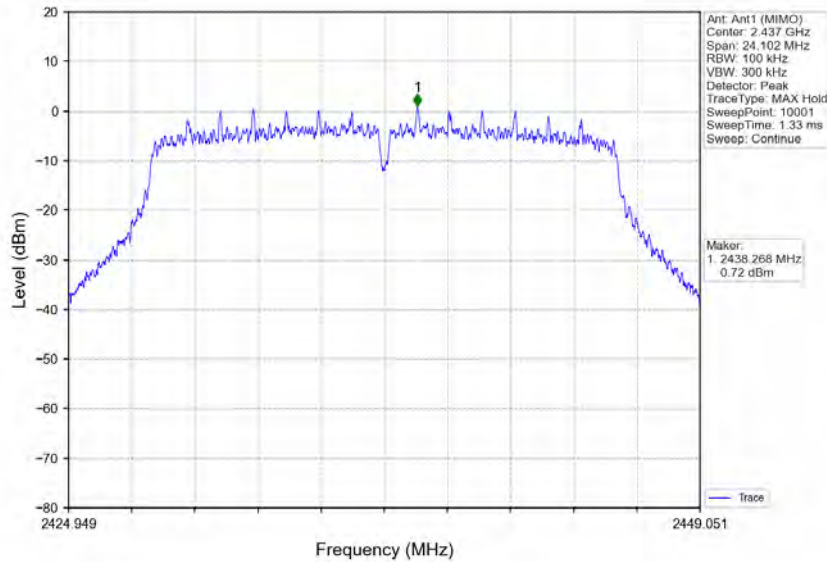
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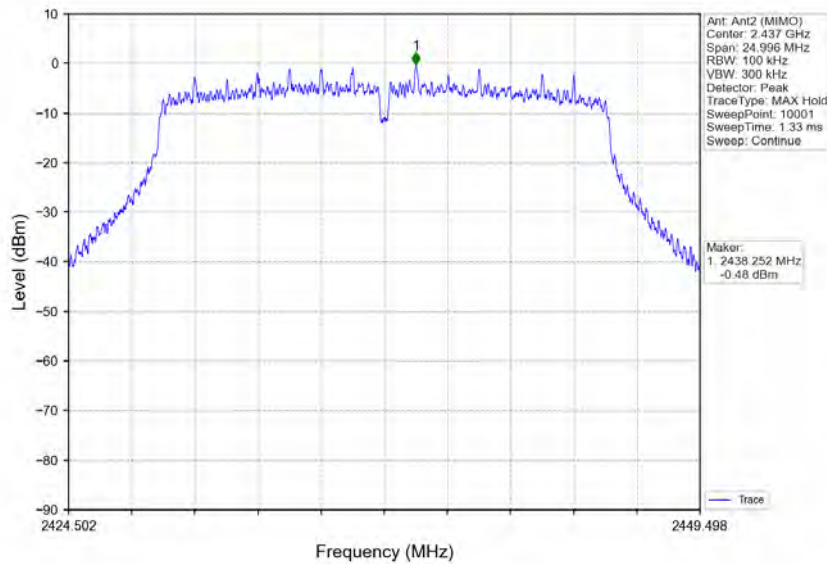
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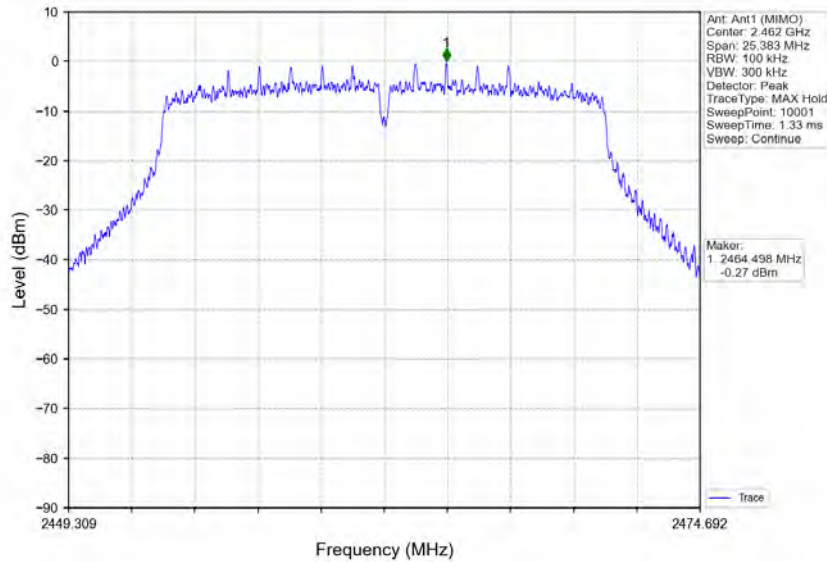
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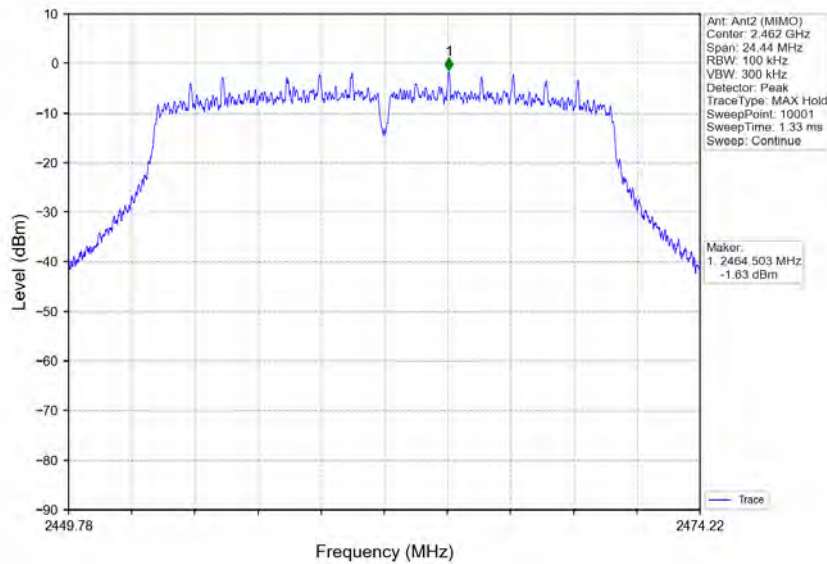
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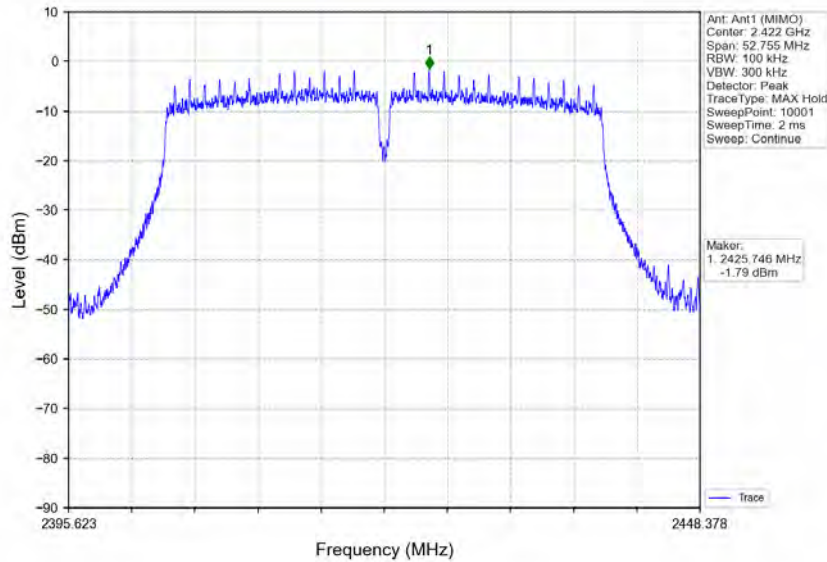
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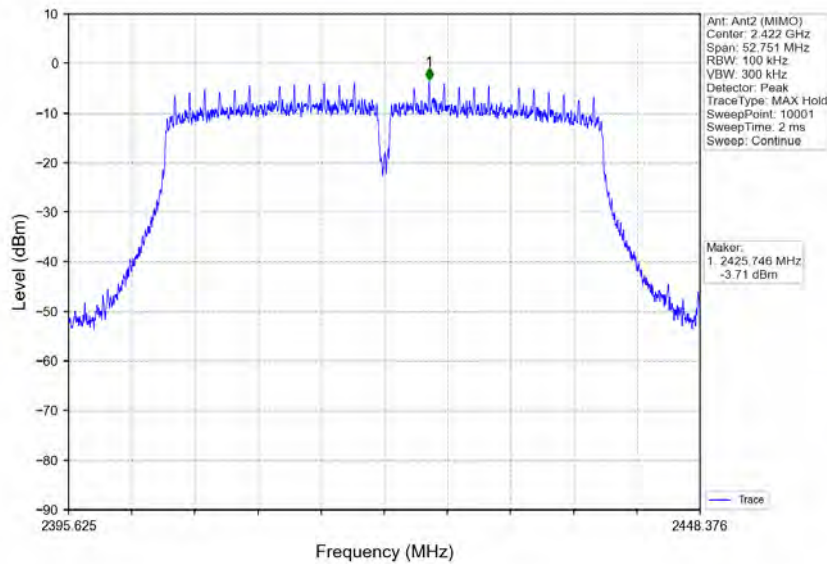
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



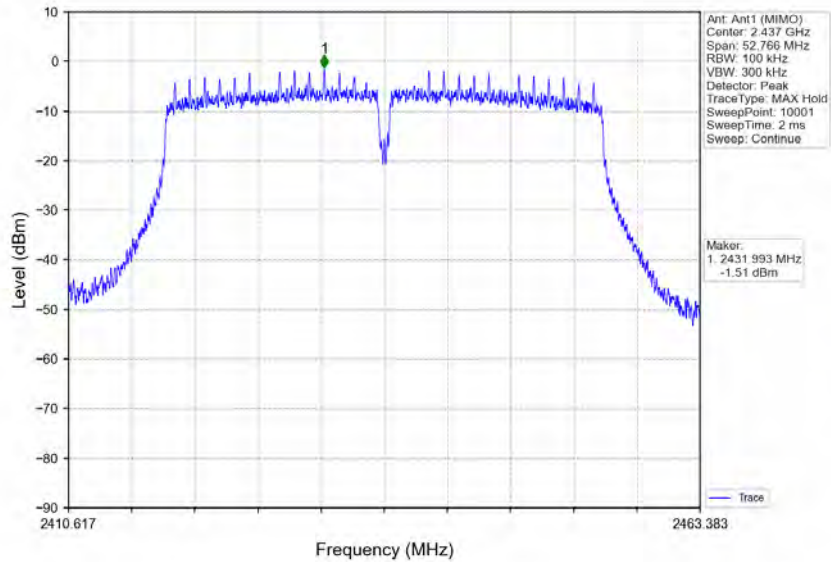
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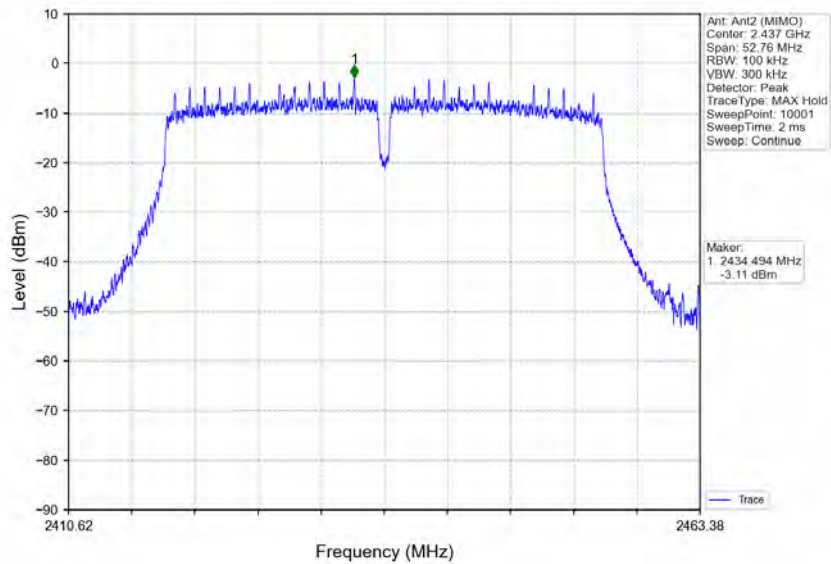
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



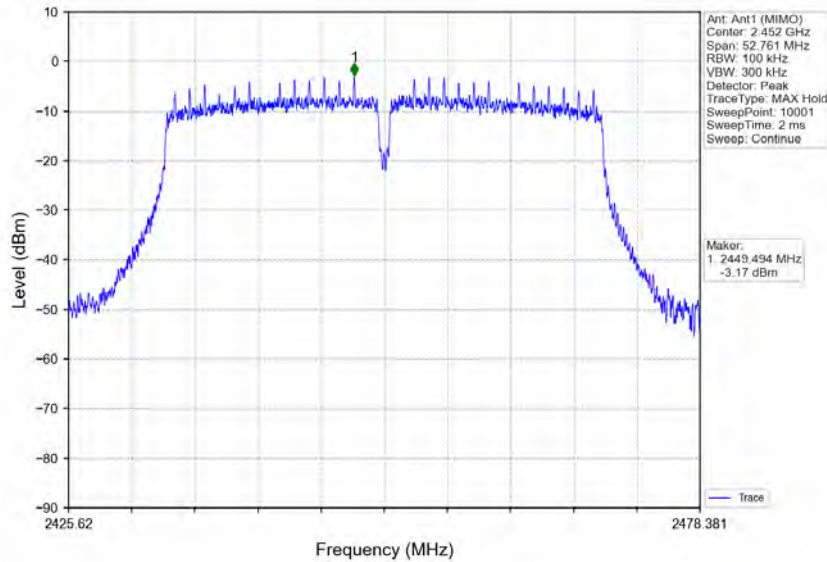
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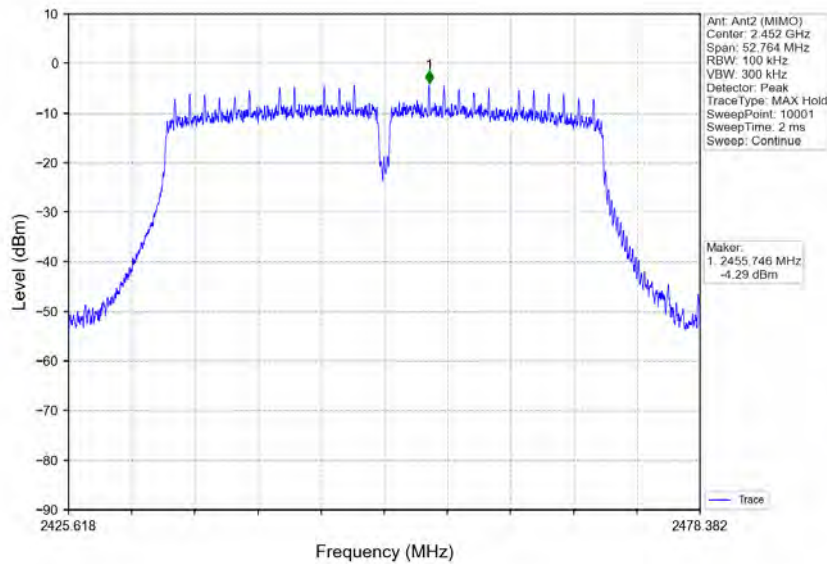
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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	3.75	-26.25	Pass
			2	4.01	-25.99	Pass
		2437	1	3.75	-26.25	Pass
			2	4.01	-25.99	Pass
		2462	1	3.75	-26.25	Pass
			2	4.01	-25.99	Pass
802.11g	SISO	2412	1	0.49	-29.51	Pass
			2	-0.57	-30.57	Pass
		2437	1	0.49	-29.51	Pass
			2	-0.57	-30.57	Pass
		2462	1	0.49	-29.51	Pass
			2	-0.57	-30.57	Pass
802.11n (HT20)	MIMO	2412	1	1.10	-28.90	Pass
			2	-0.48	-30.48	Pass
		2437	1	1.10	-28.90	Pass
			2	-0.48	-30.48	Pass
		2462	1	1.10	-28.90	Pass
			2	-0.48	-30.48	Pass
802.11n (HT40)	MIMO	2422	1	-1.51	-31.51	Pass
			2	-3.11	-33.11	Pass
		2437	1	-1.51	-31.51	Pass
			2	-3.11	-33.11	Pass
		2452	1	-1.51	-31.51	Pass
			2	-3.11	-33.11	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.

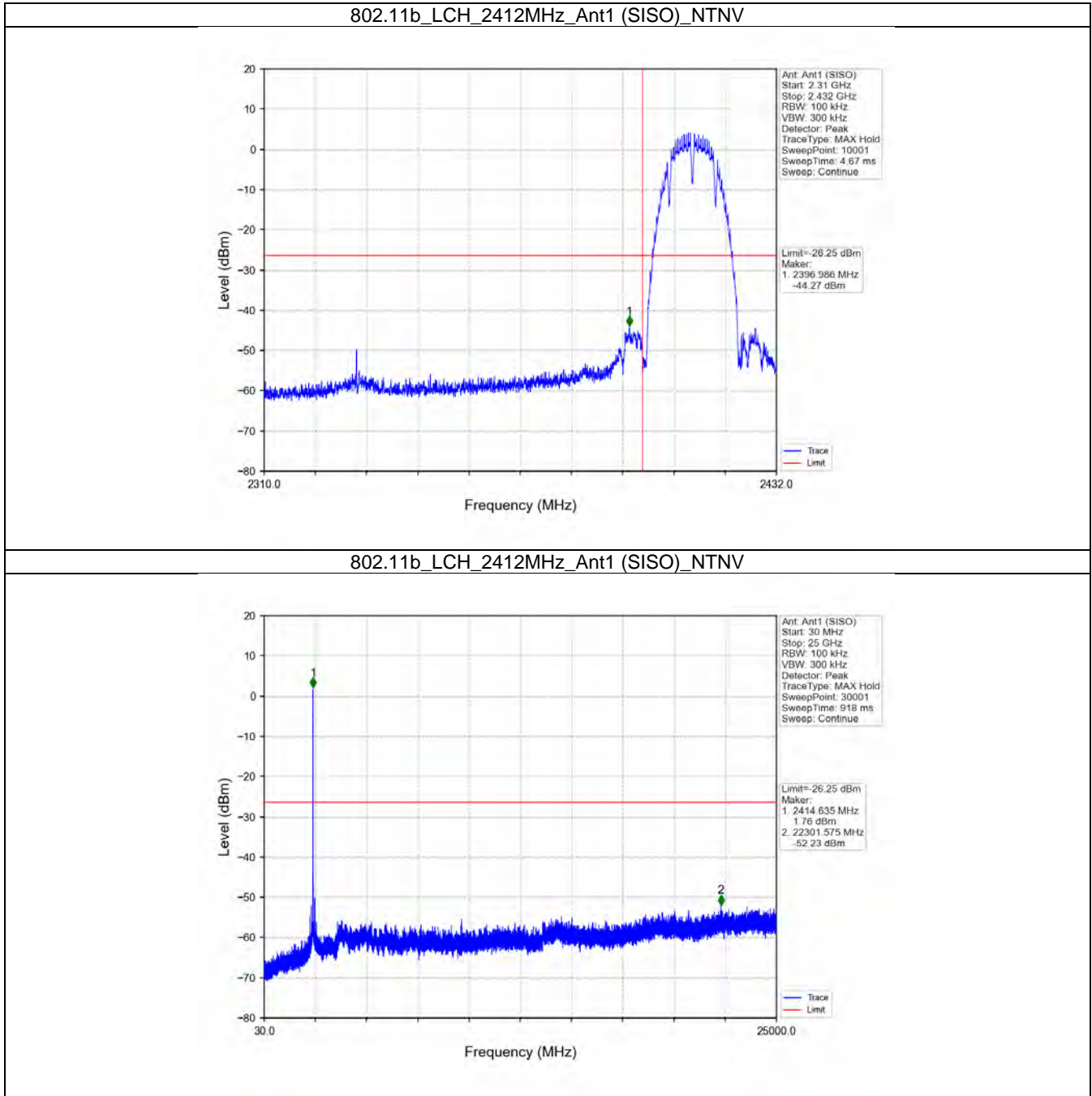
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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5.2.2 Test Graph



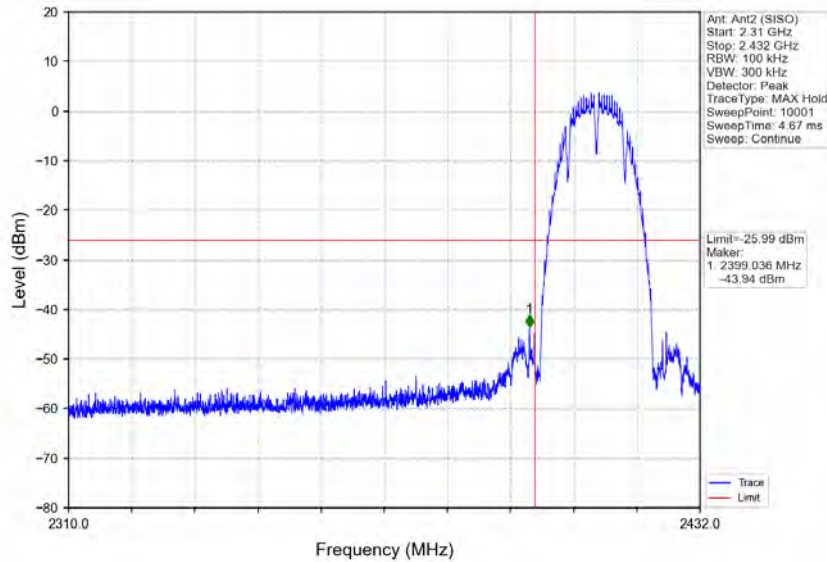
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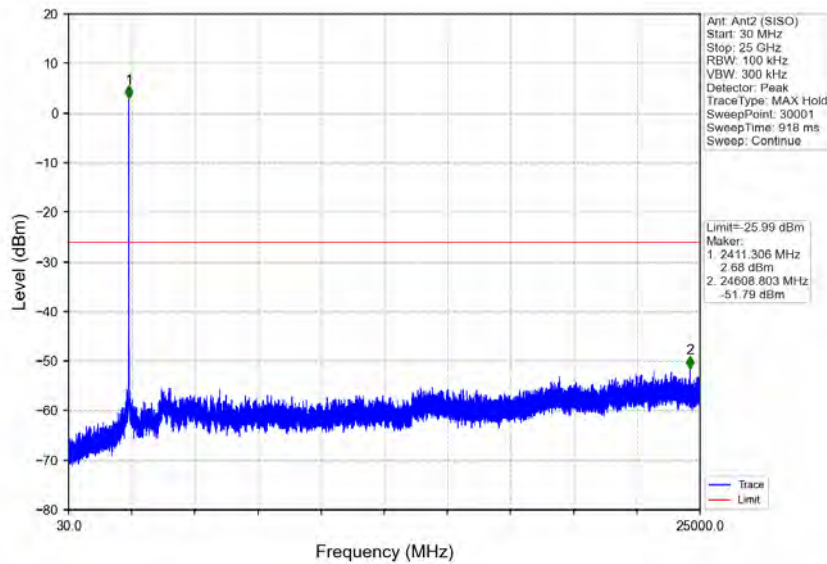
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802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV

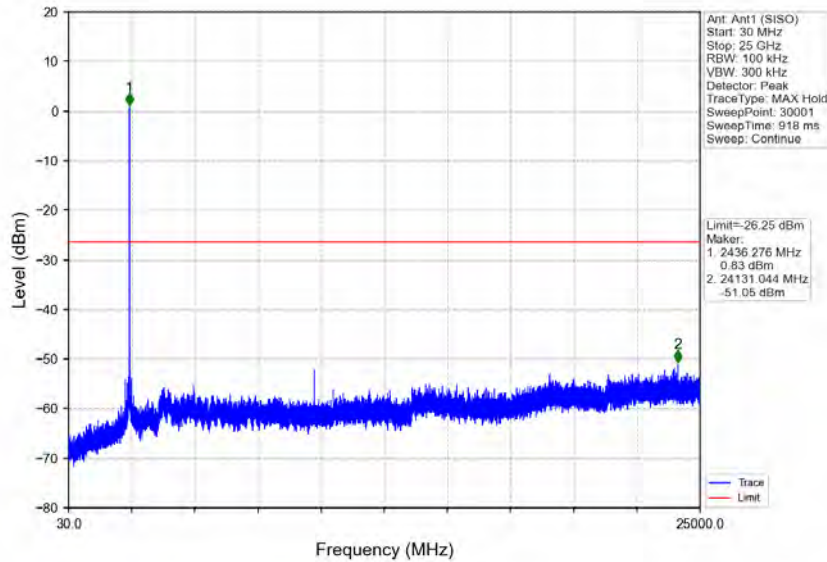


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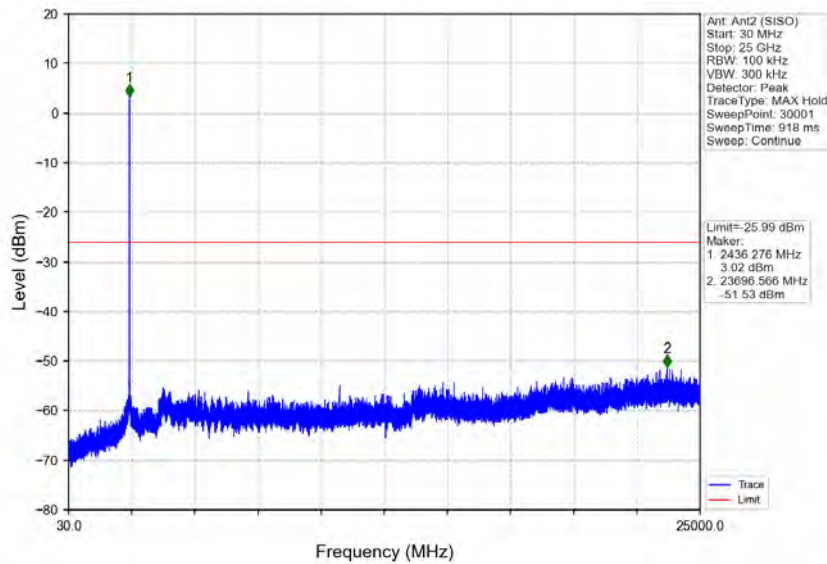
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



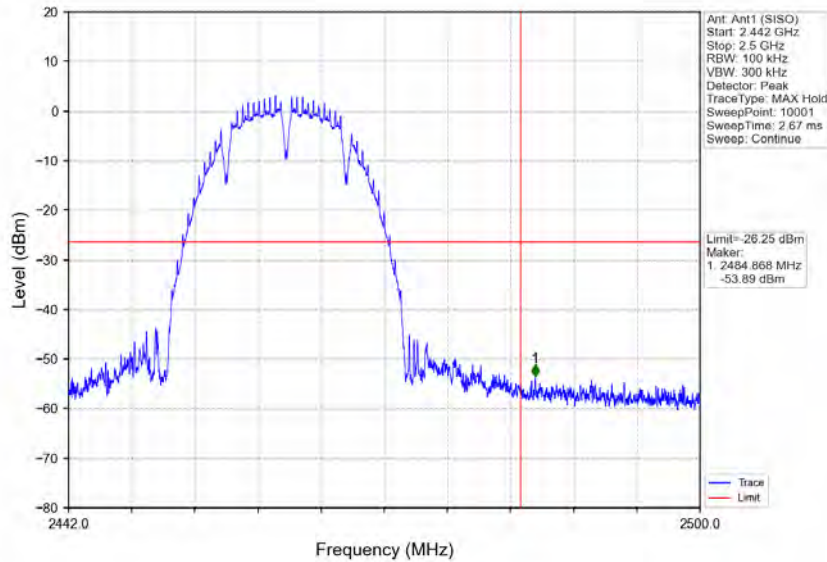
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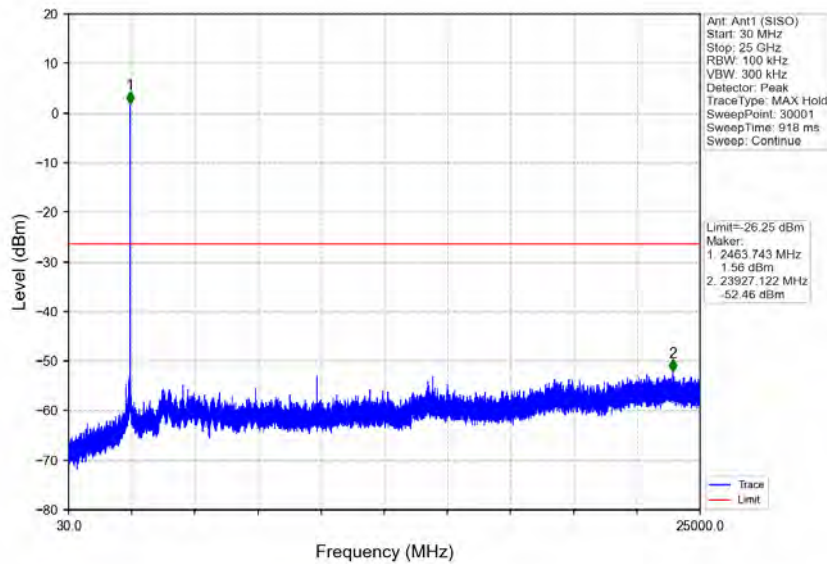
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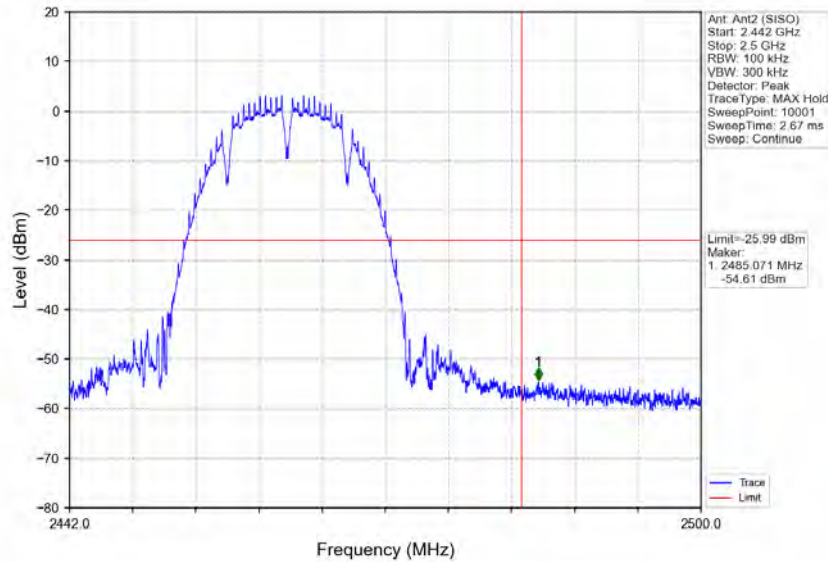
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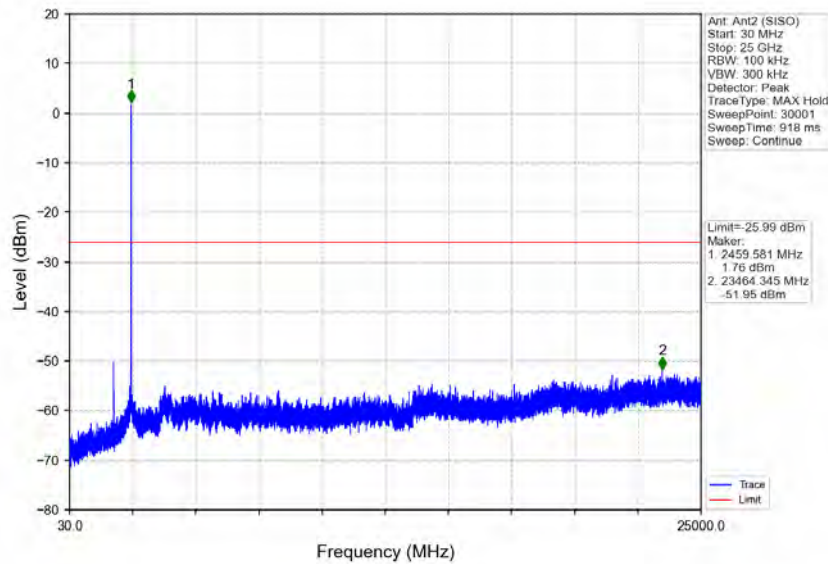
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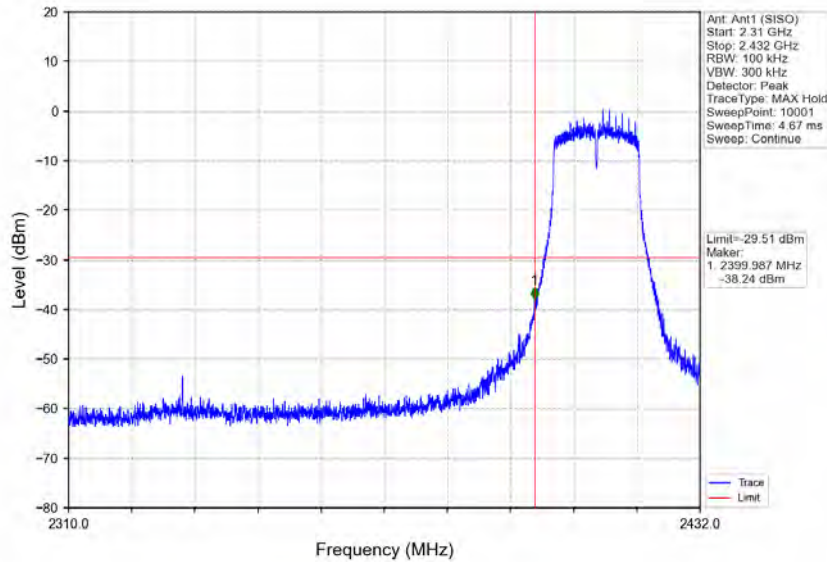


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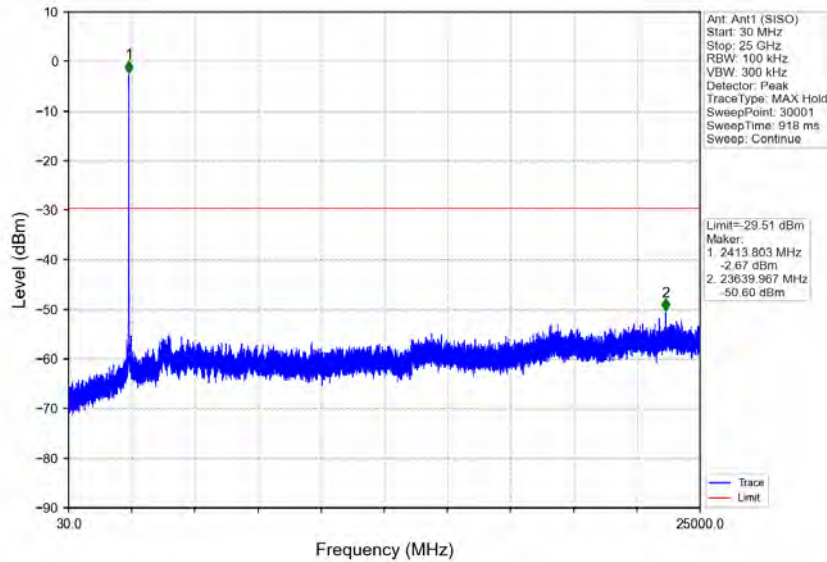
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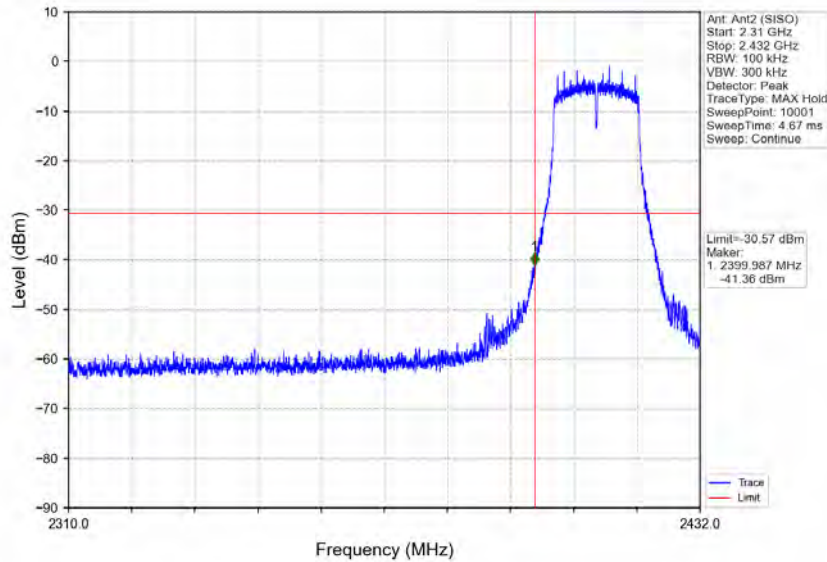
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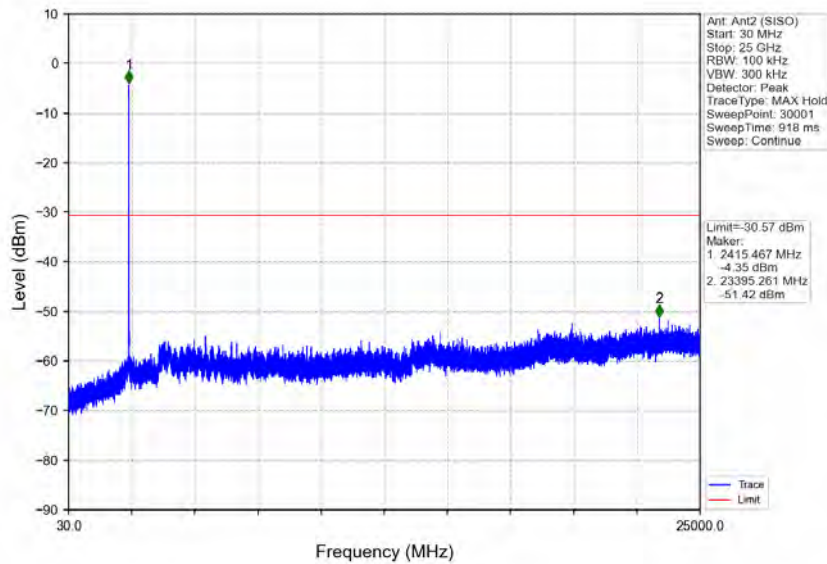
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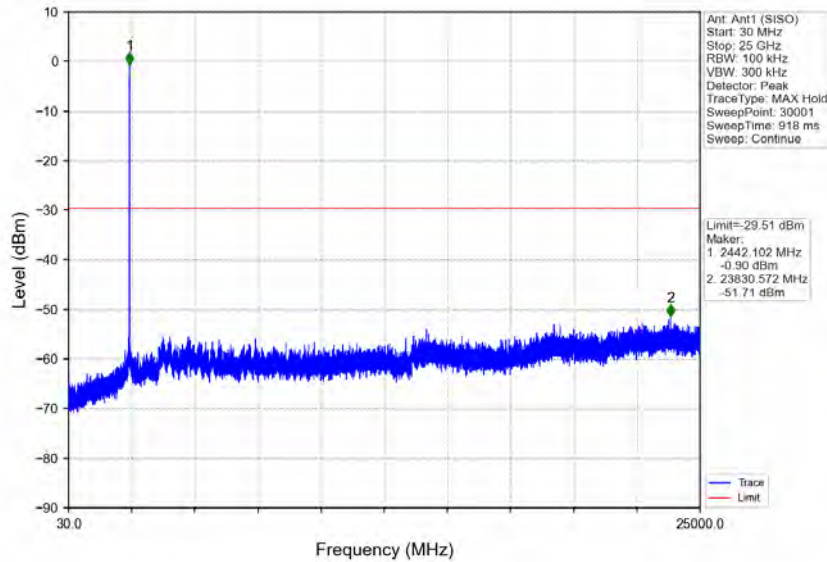
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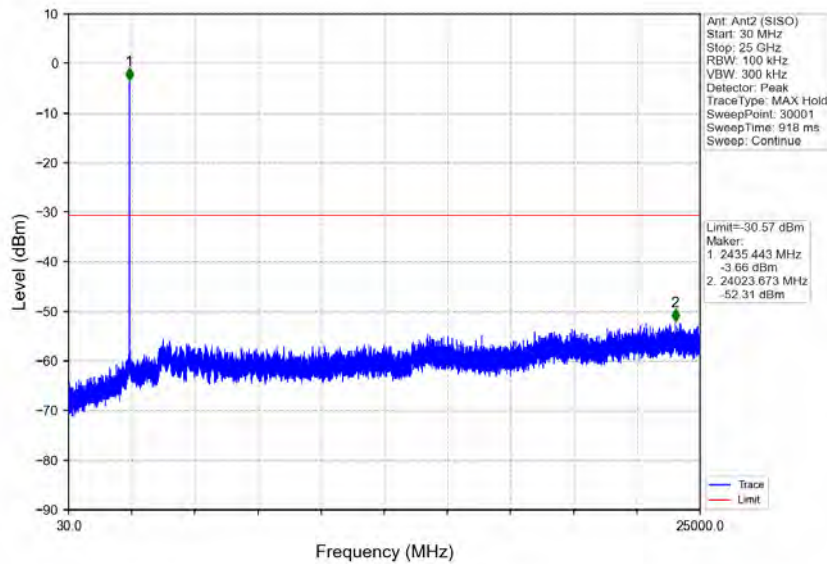
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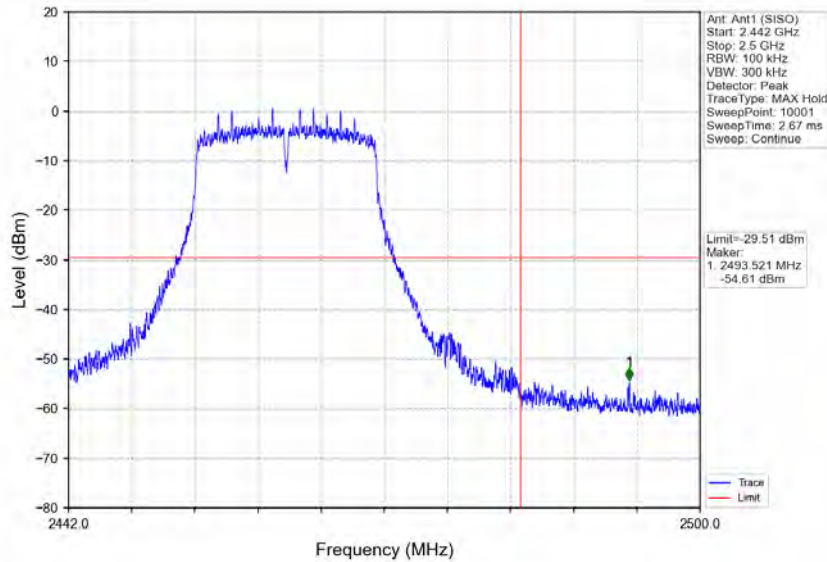
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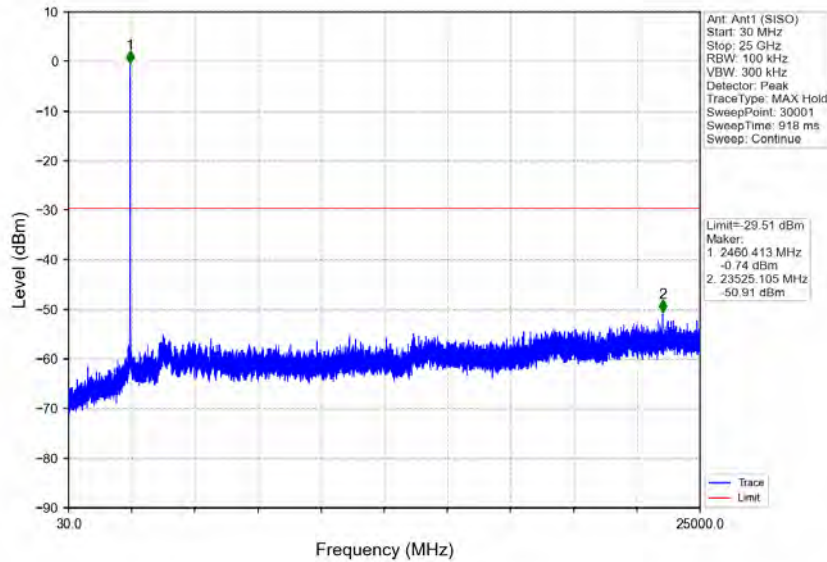
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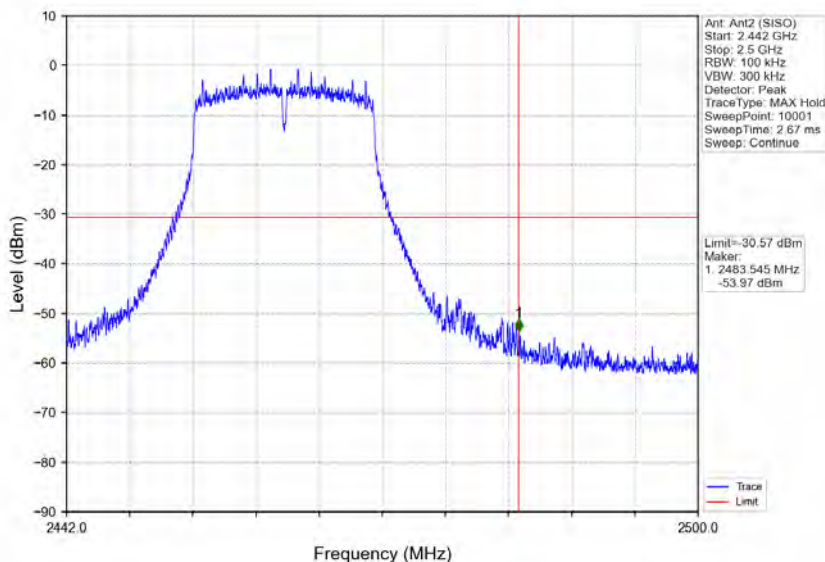
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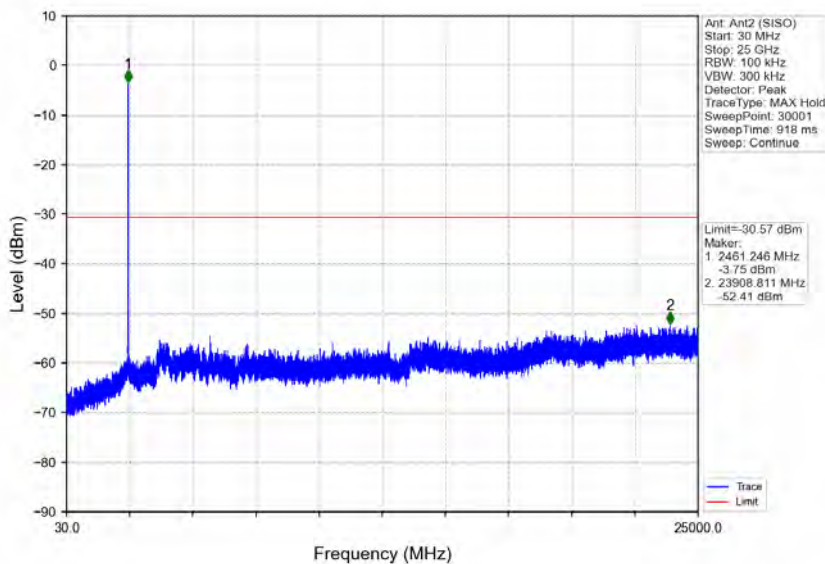
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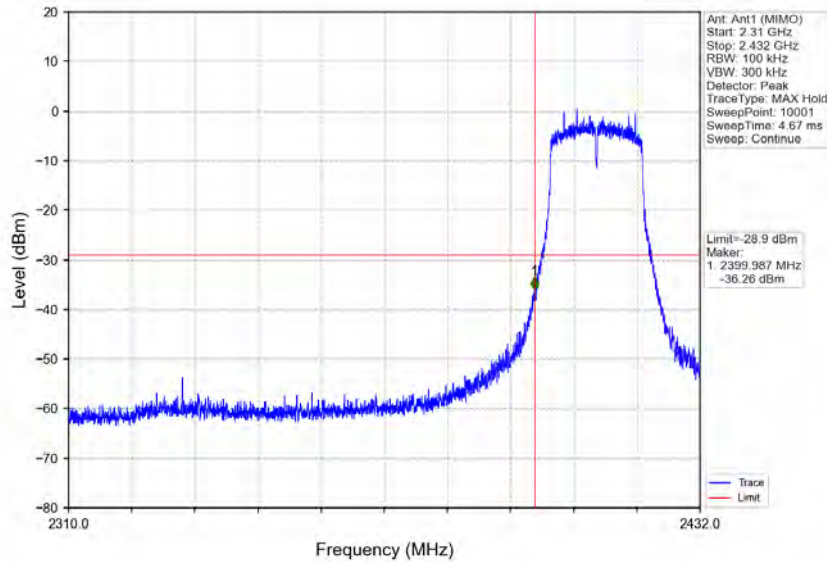
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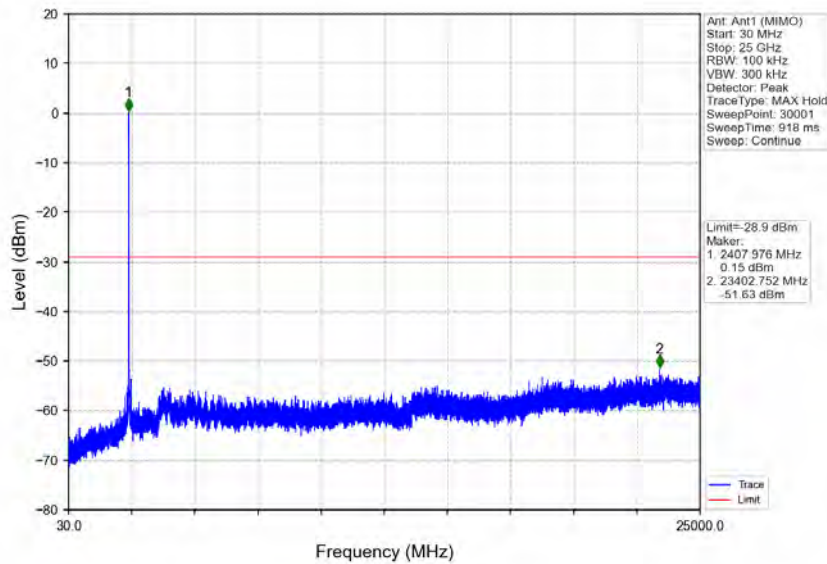
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

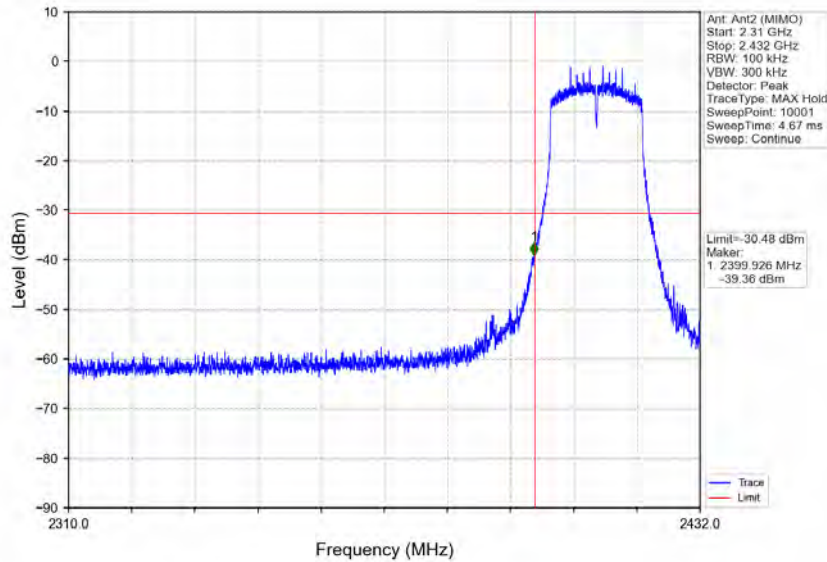


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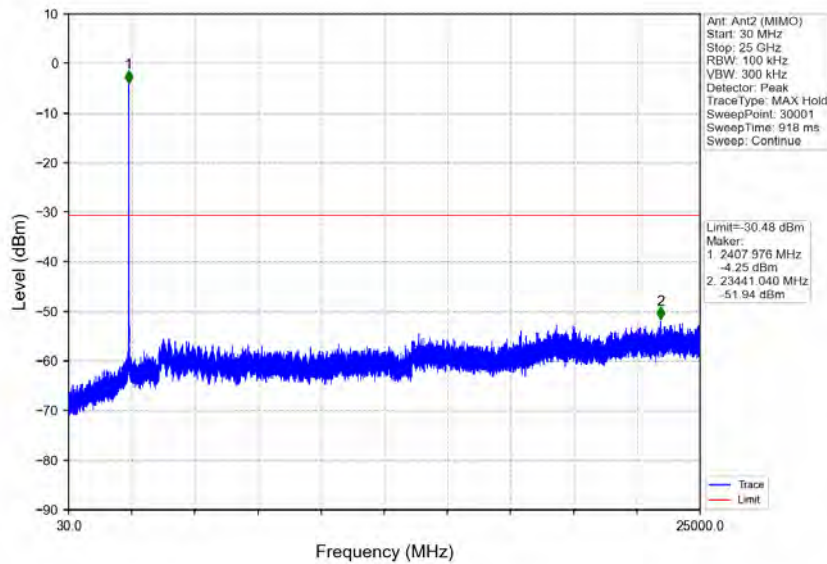
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802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



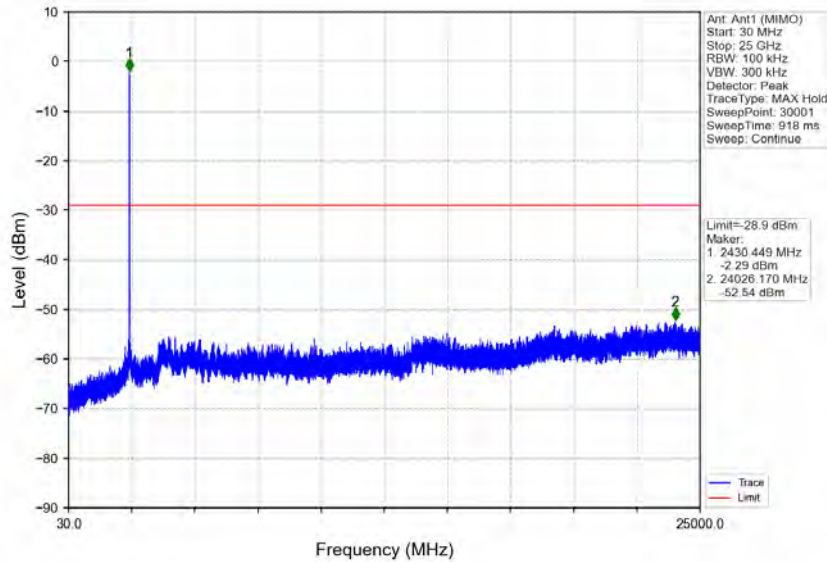
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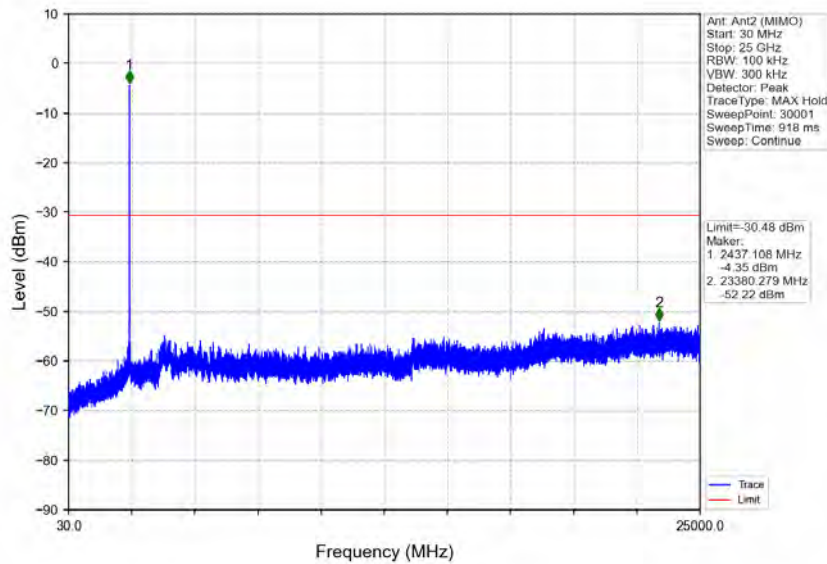
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



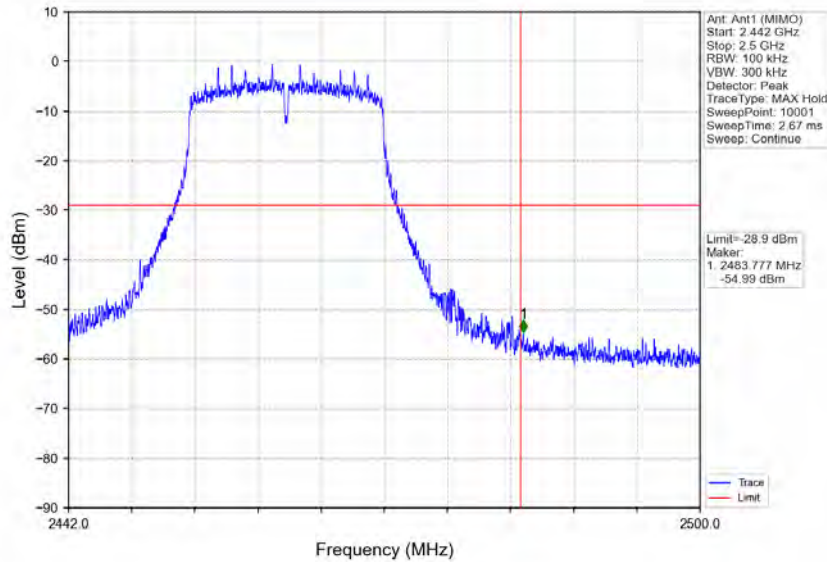
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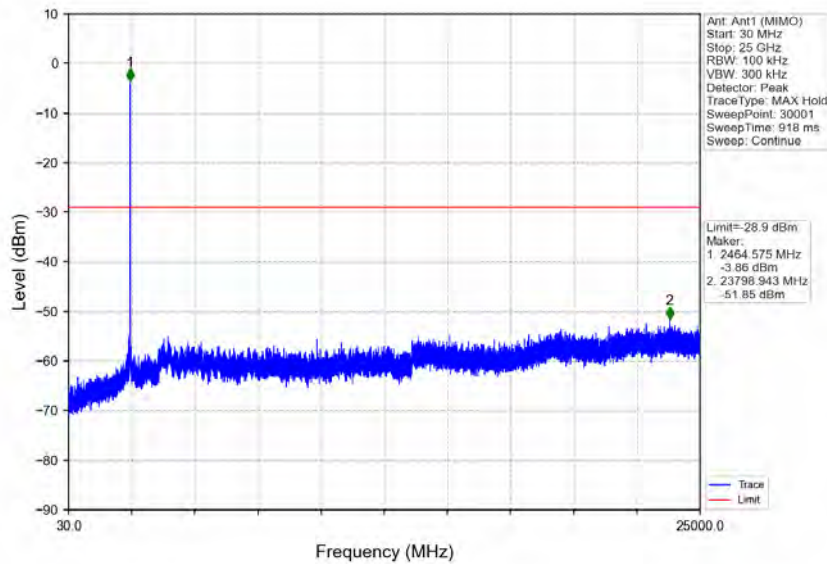
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



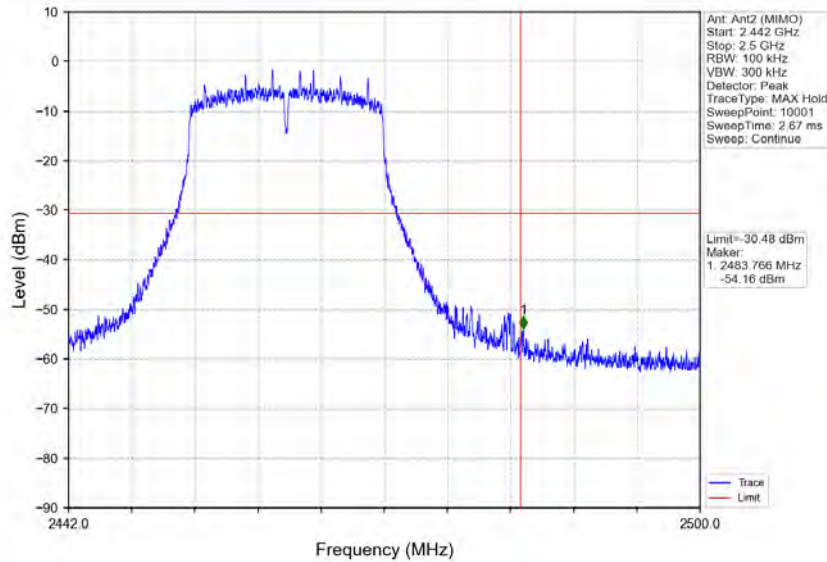
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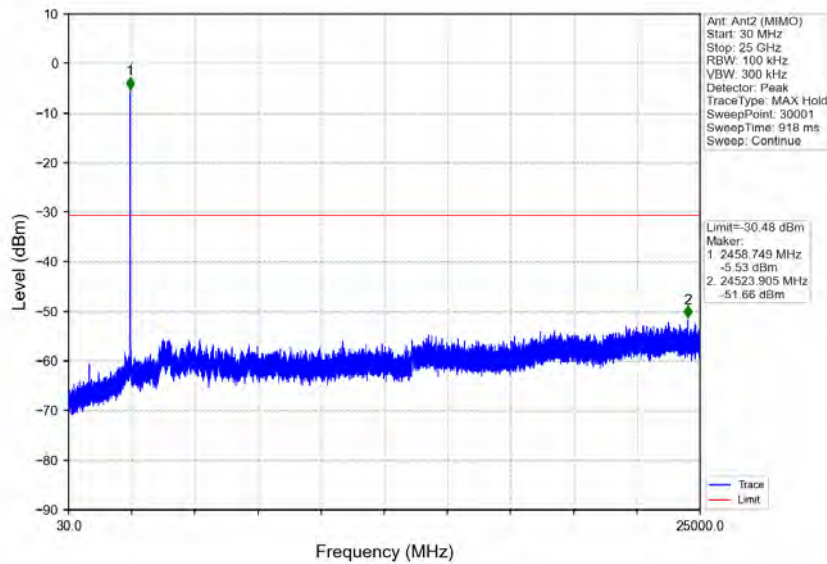
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802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



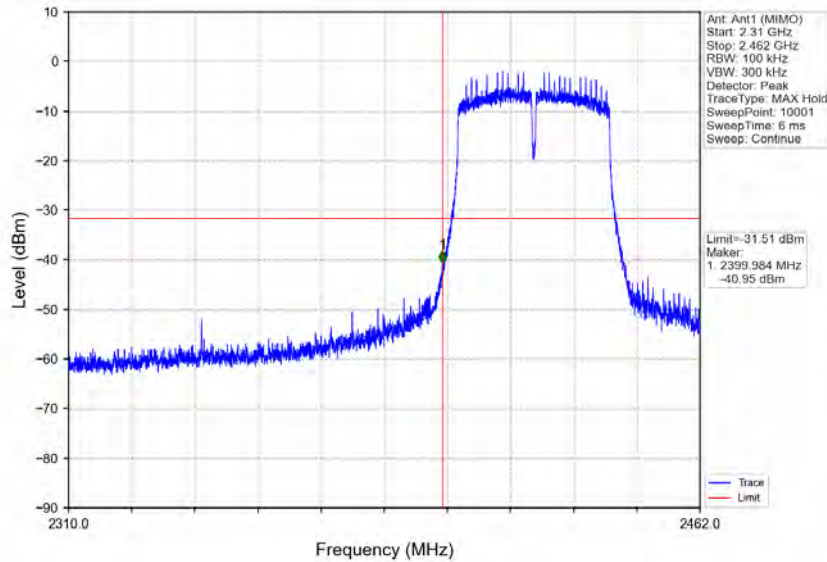
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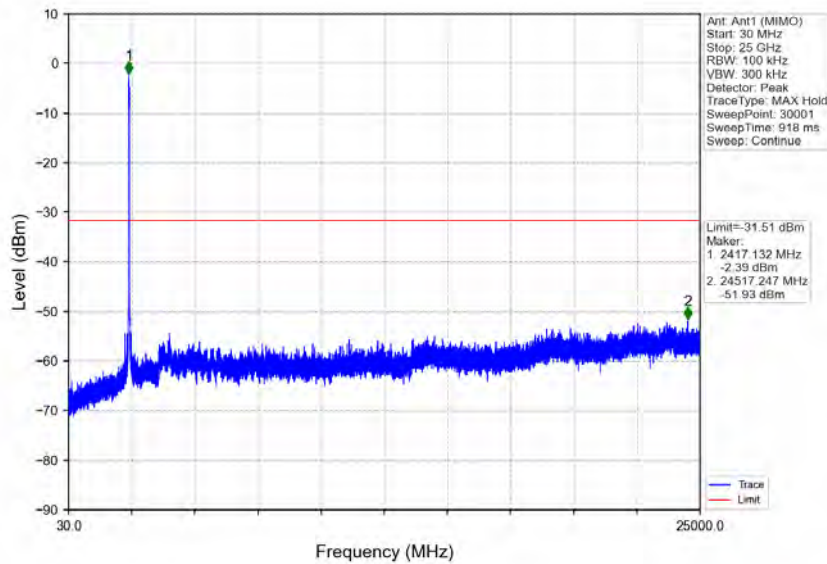
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



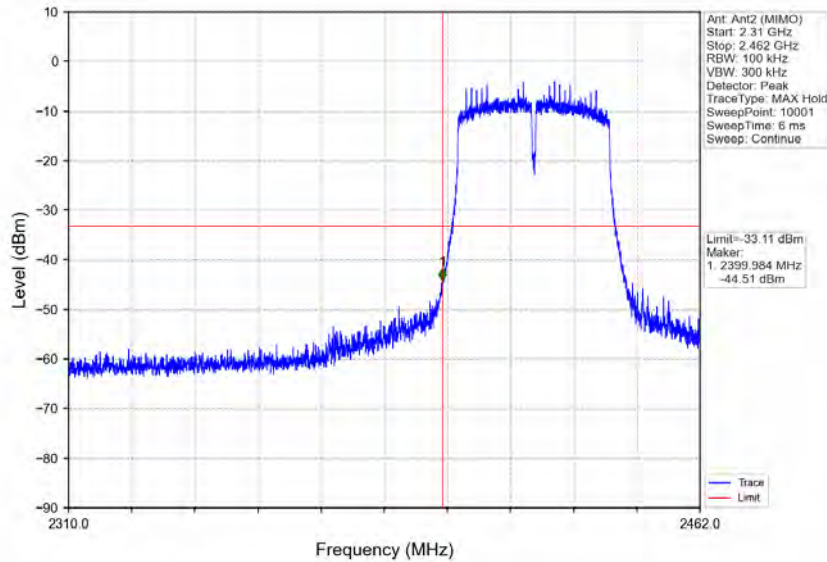
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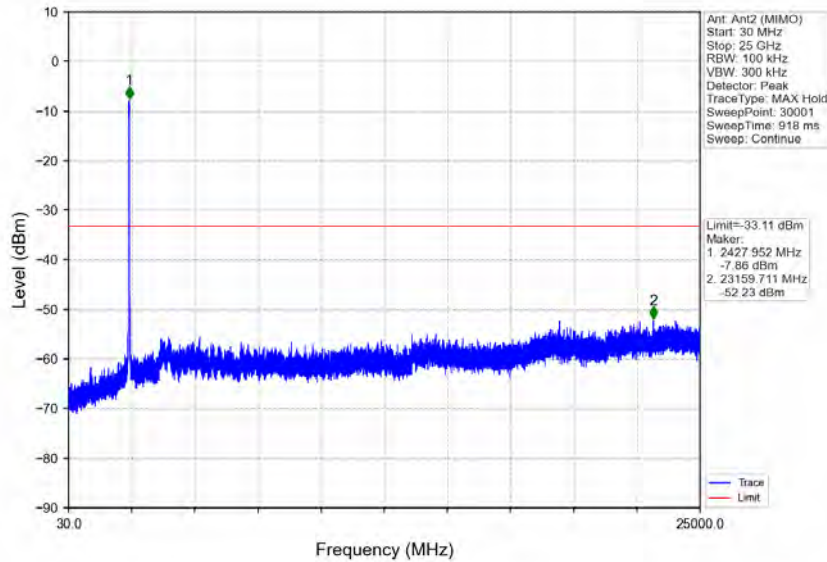
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



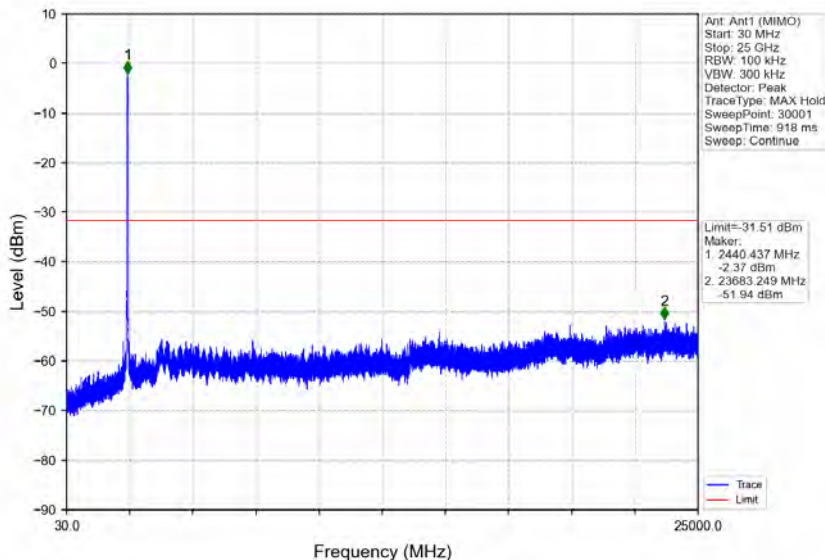
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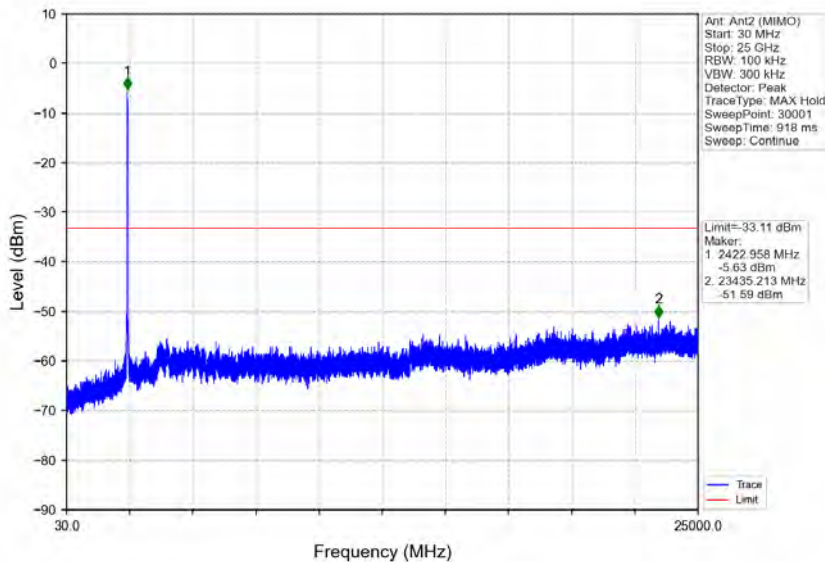
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



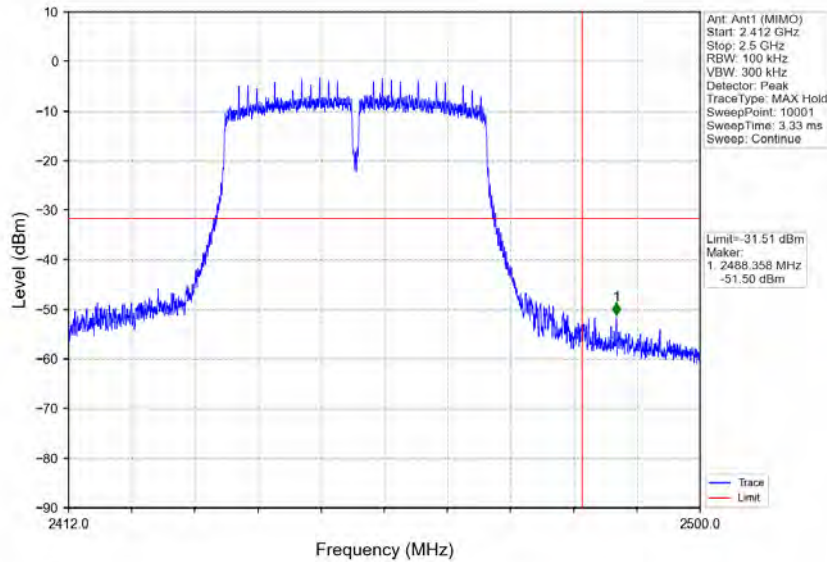
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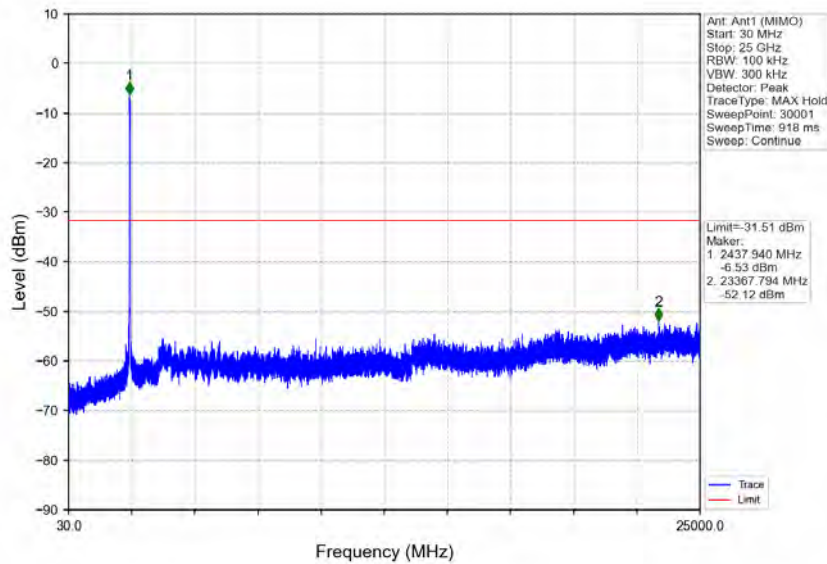
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

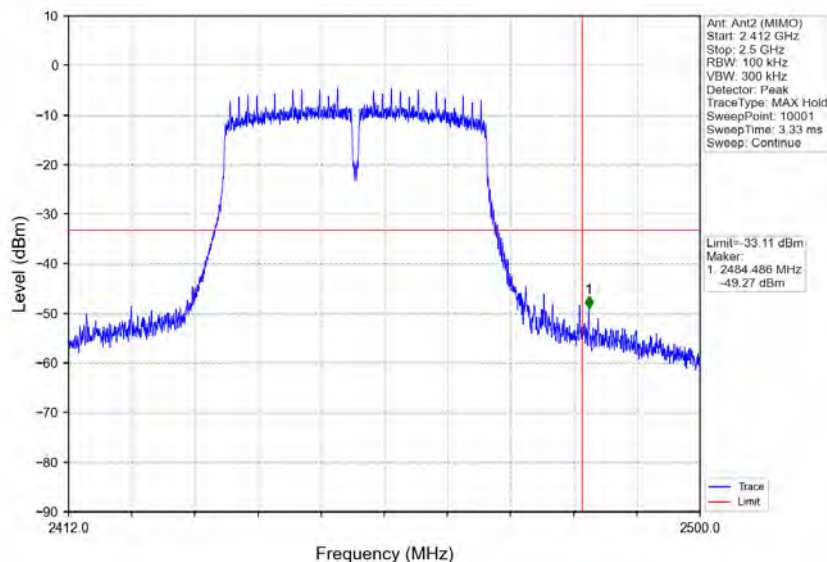


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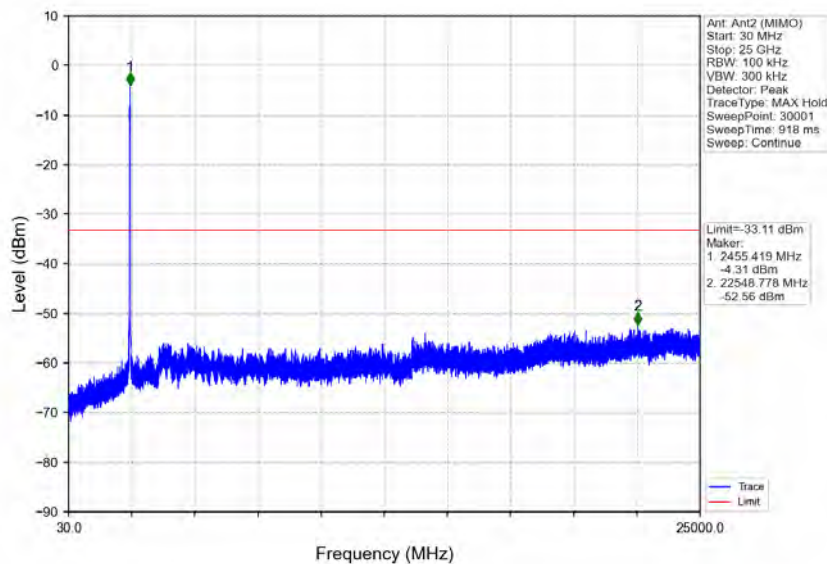
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



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