

Appendix A for KSCR2110000013701

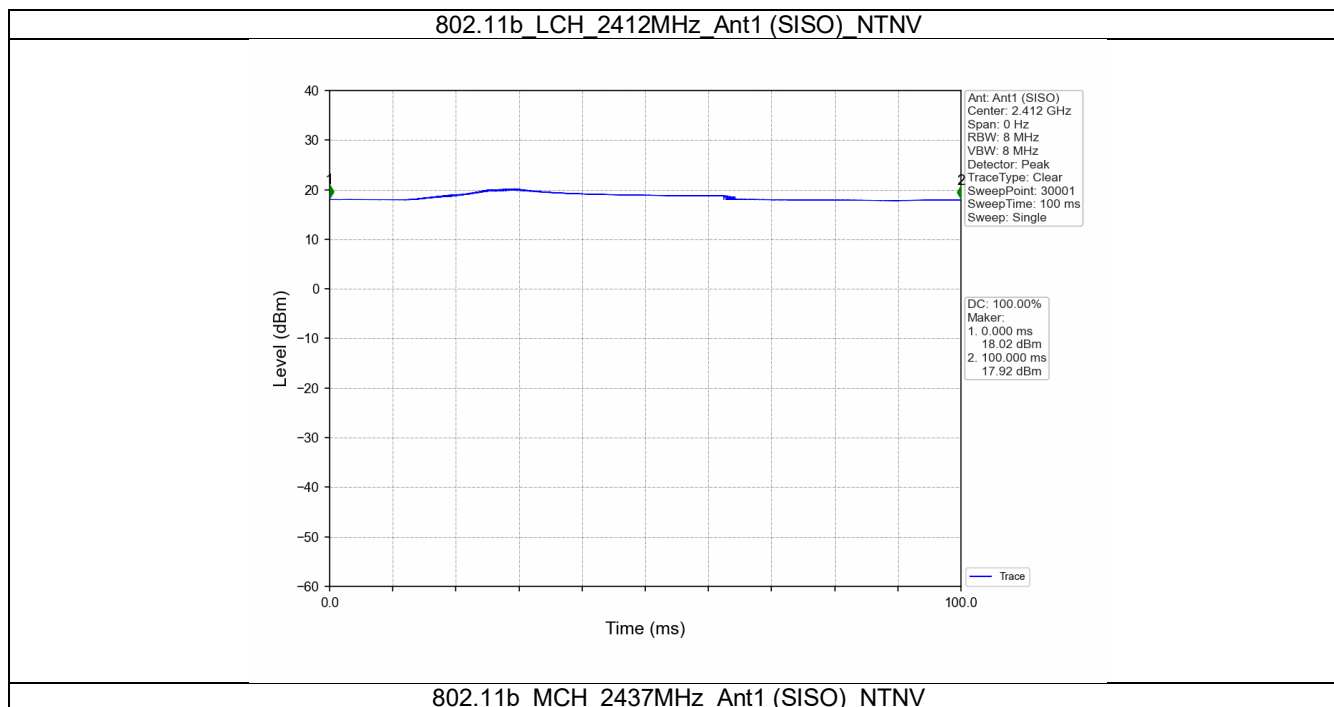
1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

1.1.2 Test Graph

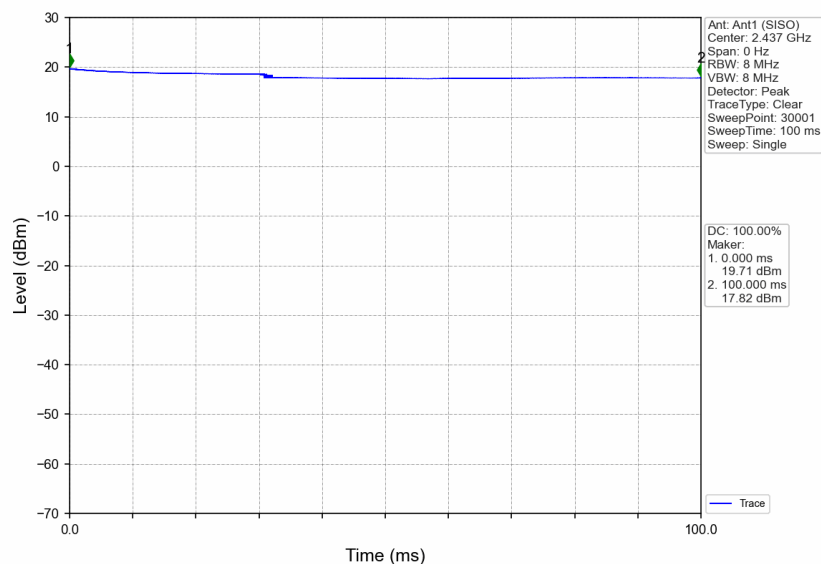


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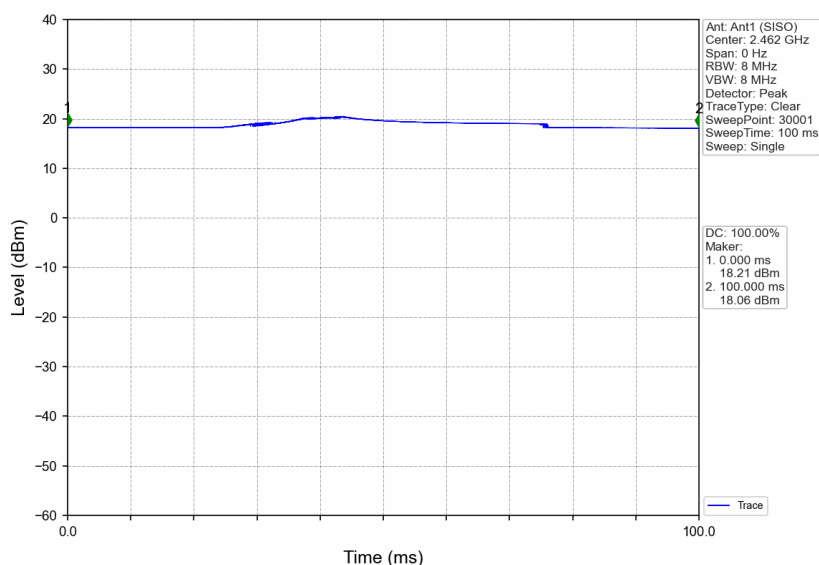
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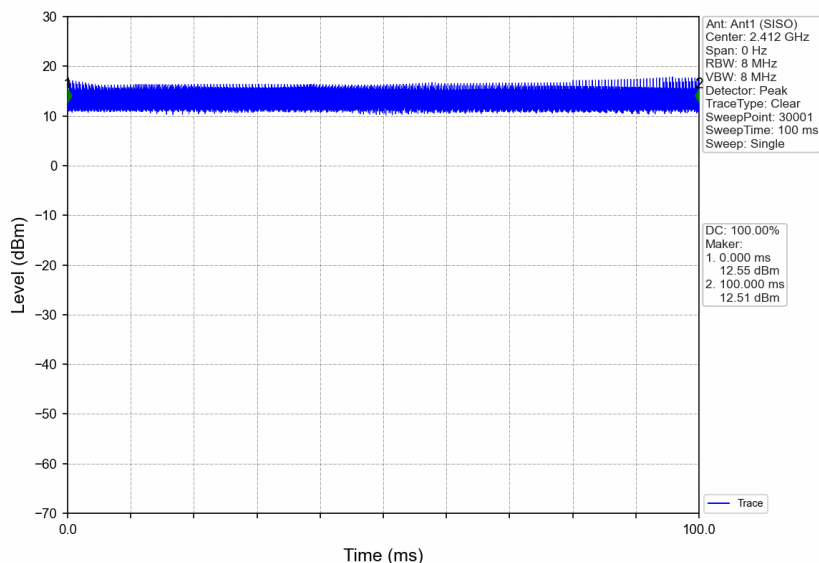
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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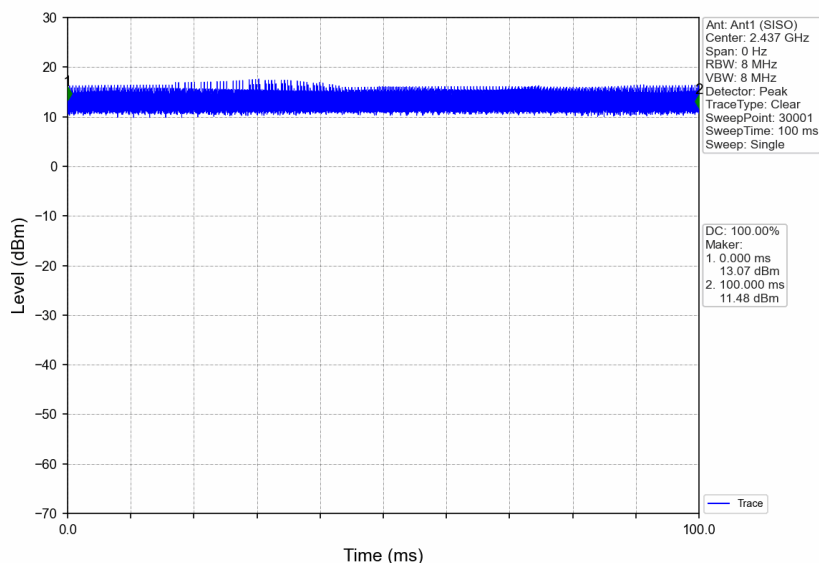
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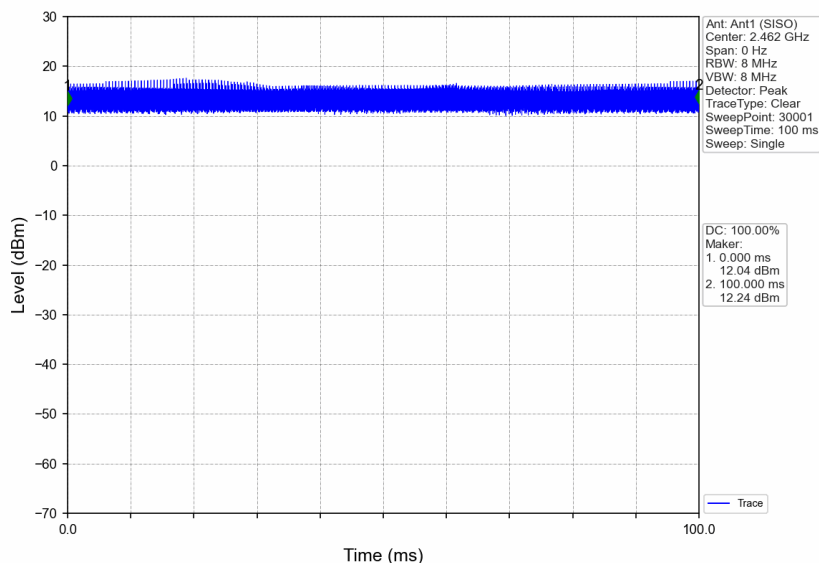
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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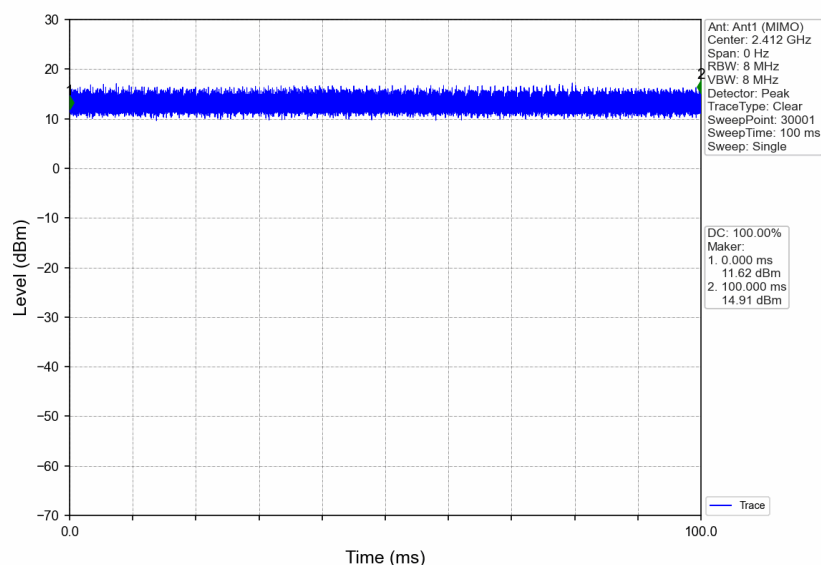
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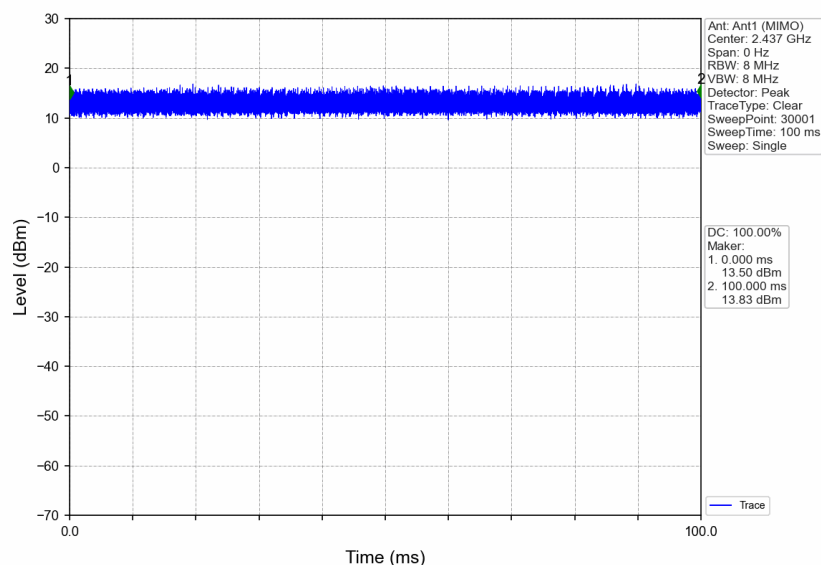
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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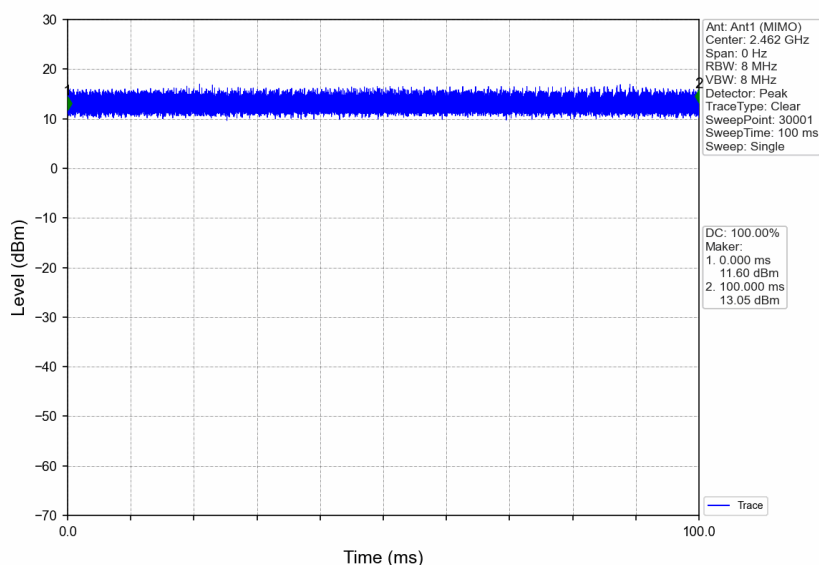
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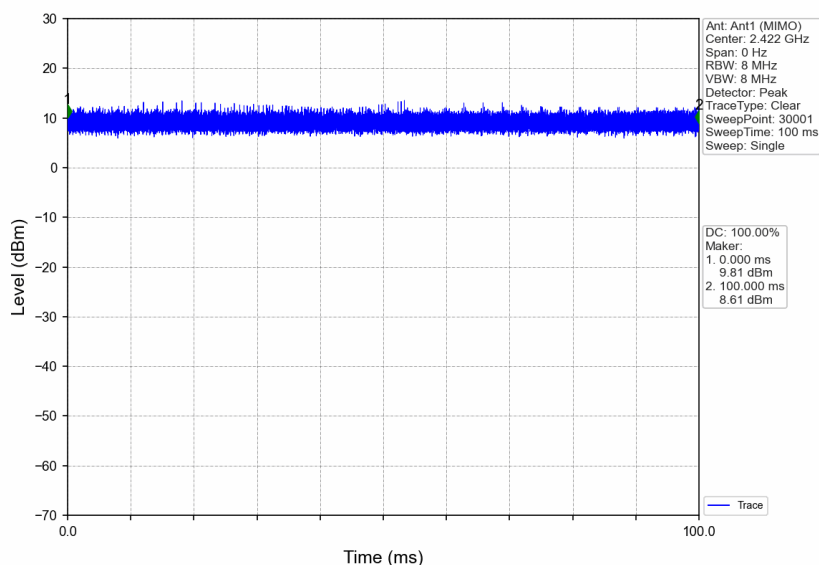
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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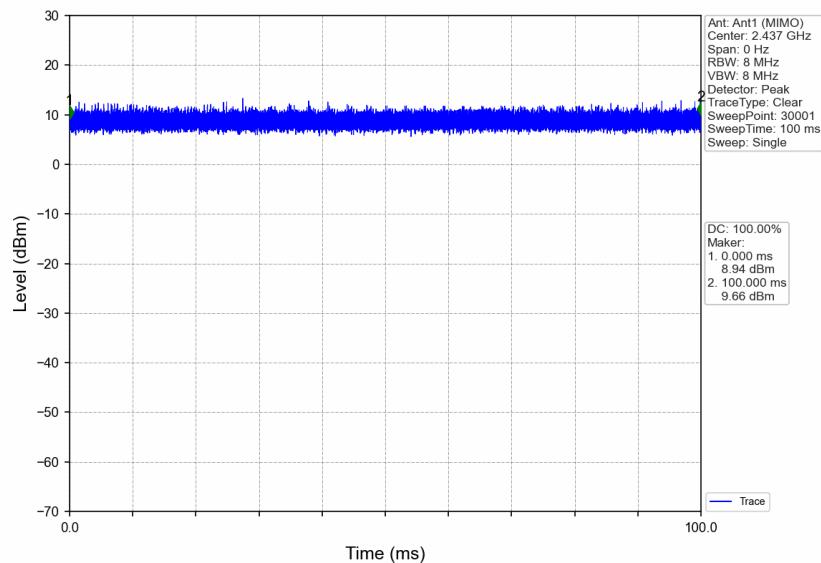
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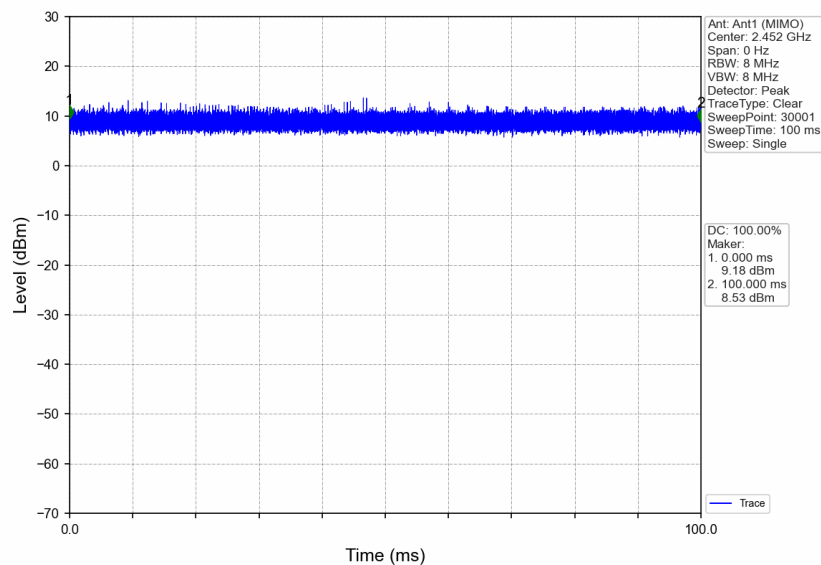
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.735	Pass
			2	14.659	Pass
		2437	1	14.743	Pass
			2	14.676	Pass
		2462	1	14.744	Pass
			2	14.678	Pass
802.11g	SISO	2412	1	17.116	Pass
			2	16.862	Pass
		2437	1	17.115	Pass
			2	16.869	Pass
		2462	1	17.123	Pass
			2	16.871	Pass
802.11n (HT20)	MIMO	2412	1	18.254	Pass
			2	18.247	Pass
		2437	1	18.233	Pass
			2	18.270	Pass
		2462	1	18.237	Pass
			2	18.274	Pass
802.11n (HT40)	MIMO	2422	1	36.452	Pass
			2	36.438	Pass
		2437	1	36.492	Pass
			2	36.433	Pass
		2452	1	36.486	Pass
			2	36.476	Pass



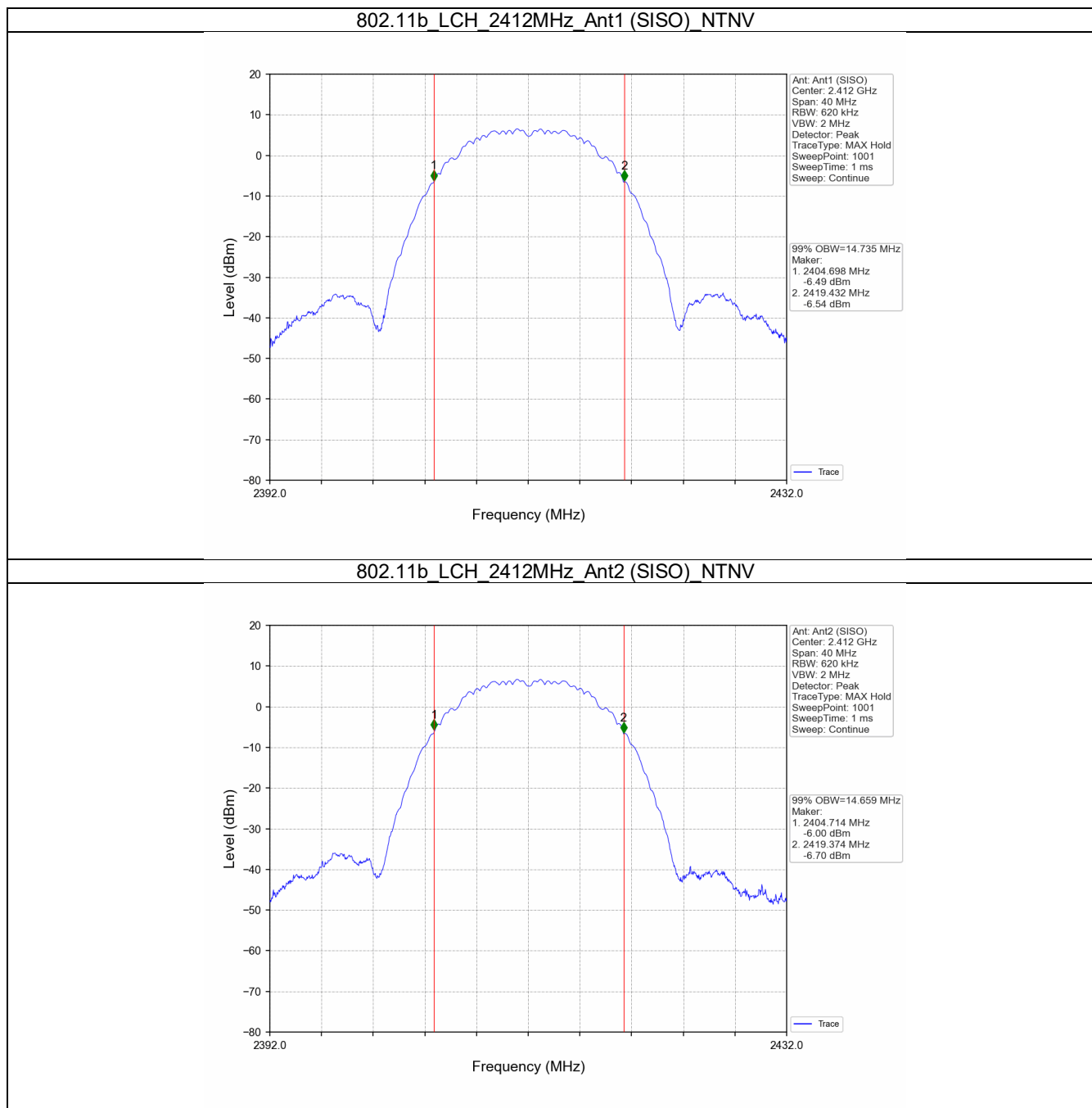
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2.1.2 Test Graph



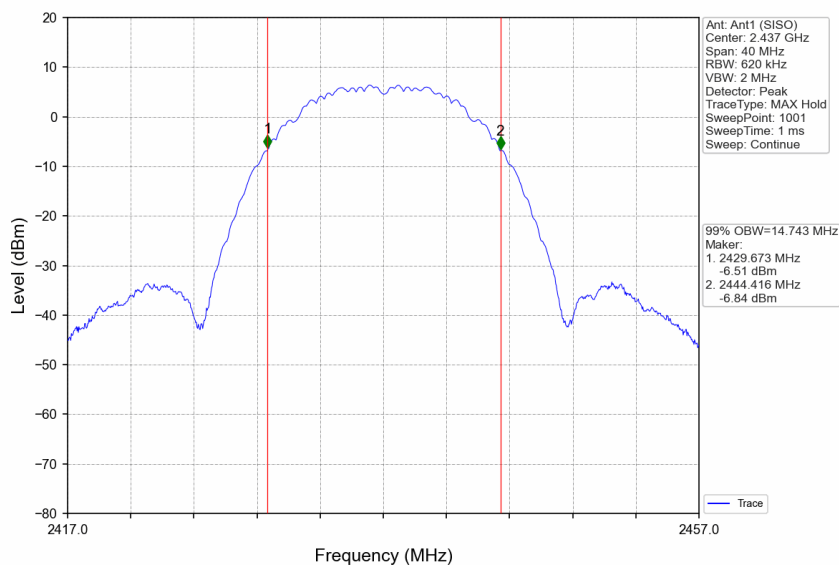
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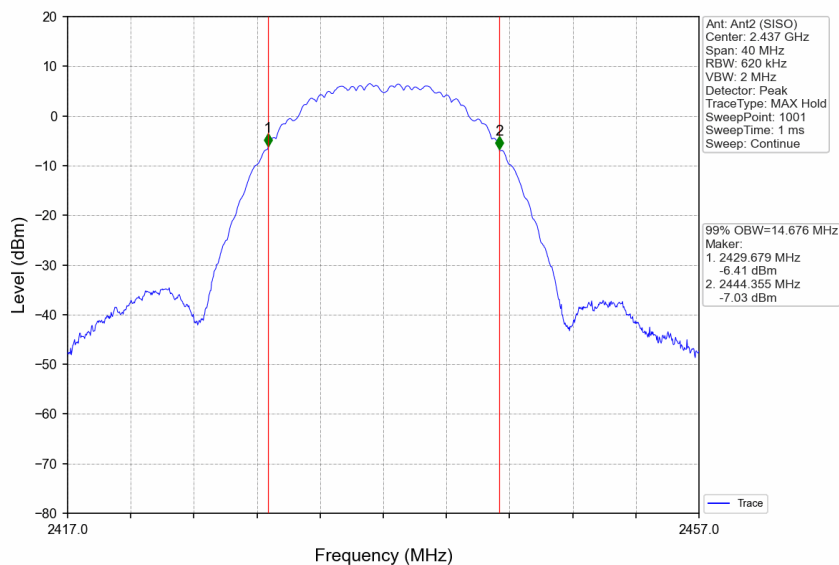
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



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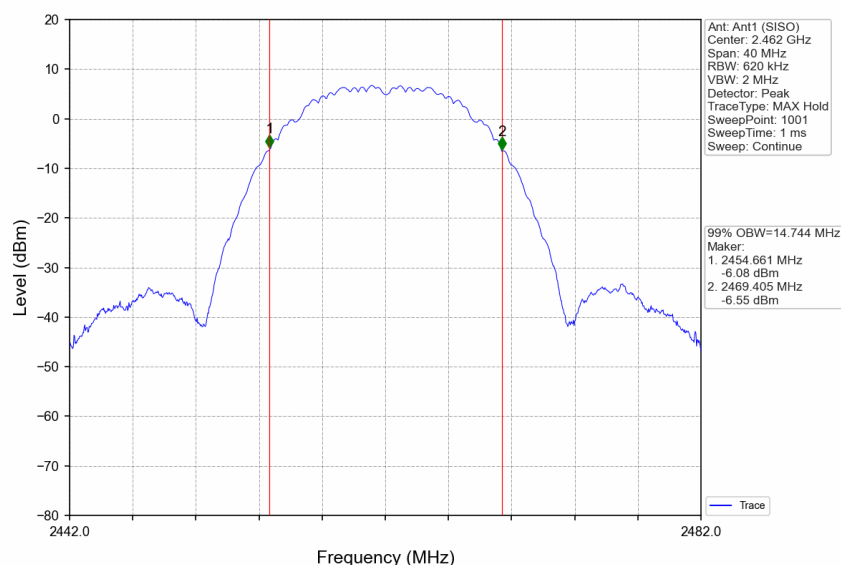
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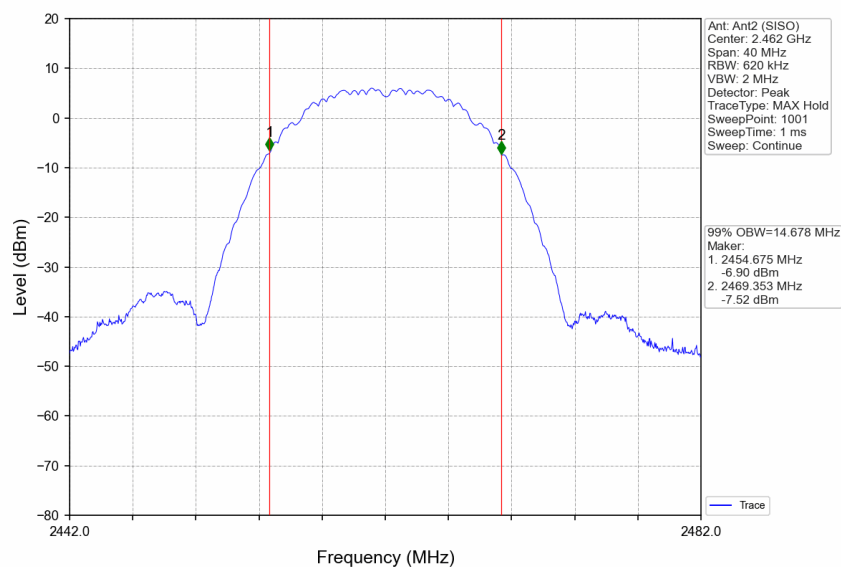
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802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



802.11b HCH 2462MHz_Ant2 (SISO)_NTNV



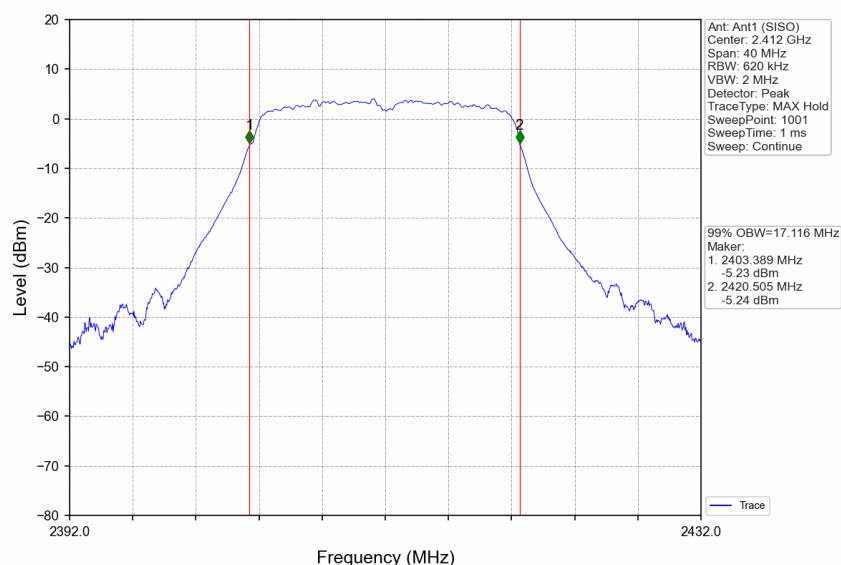
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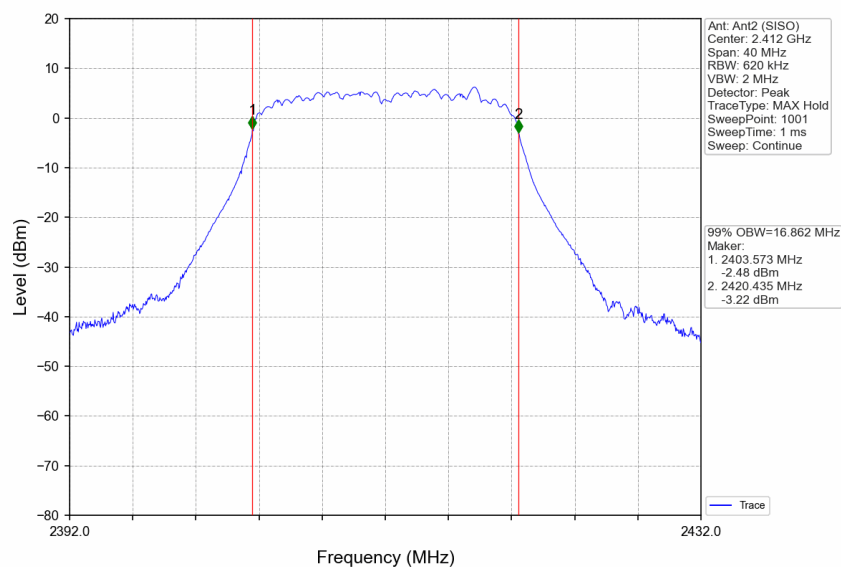
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802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



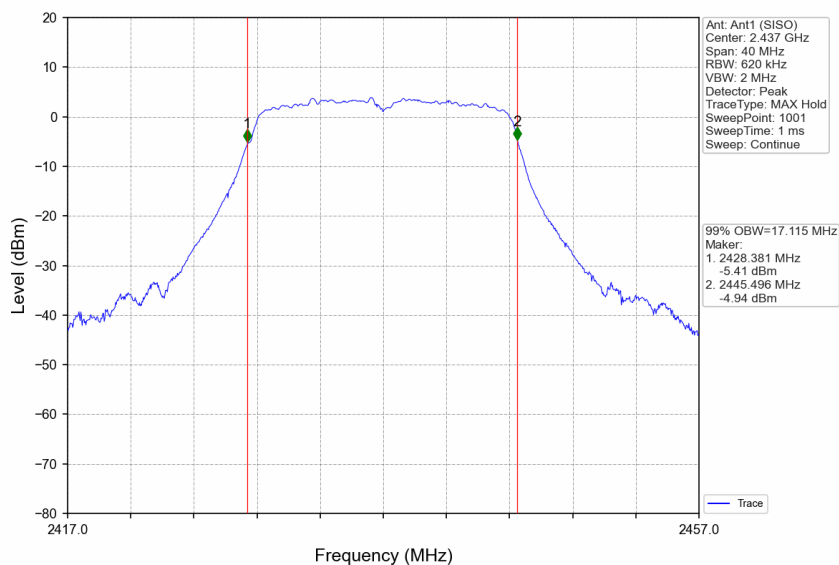
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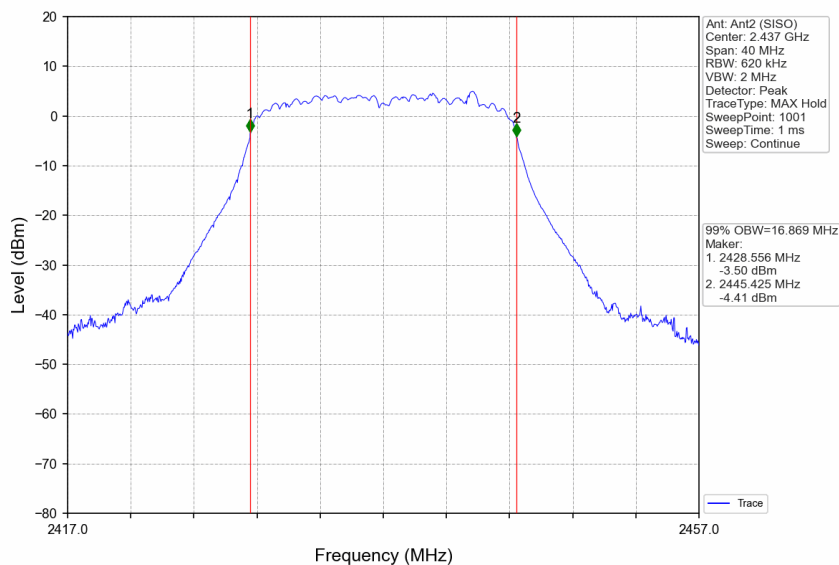
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



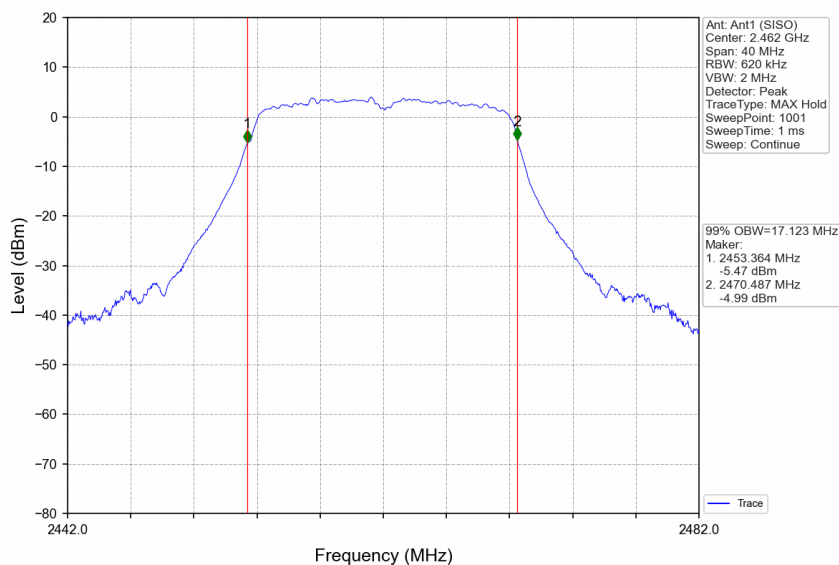
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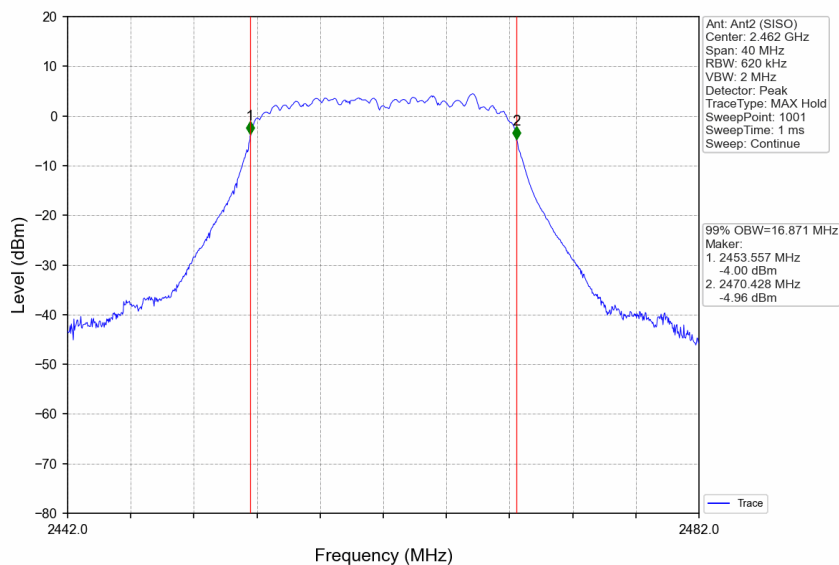
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802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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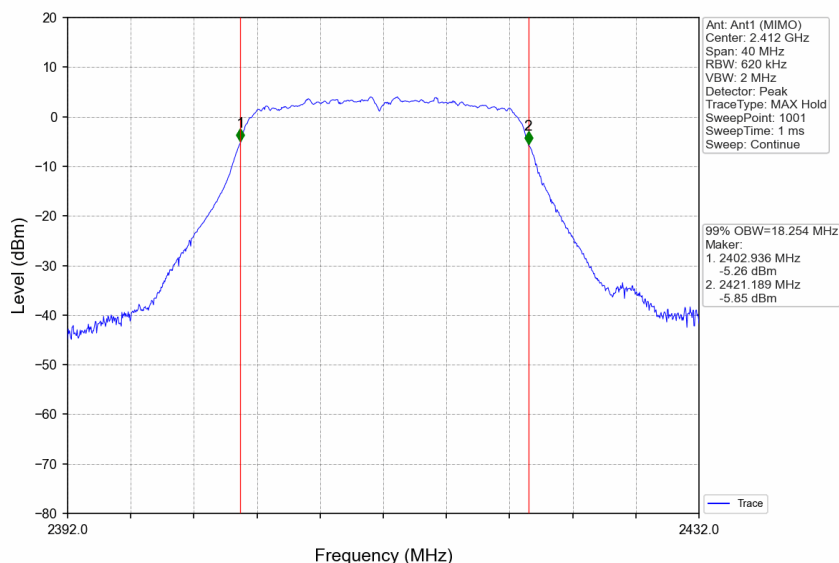
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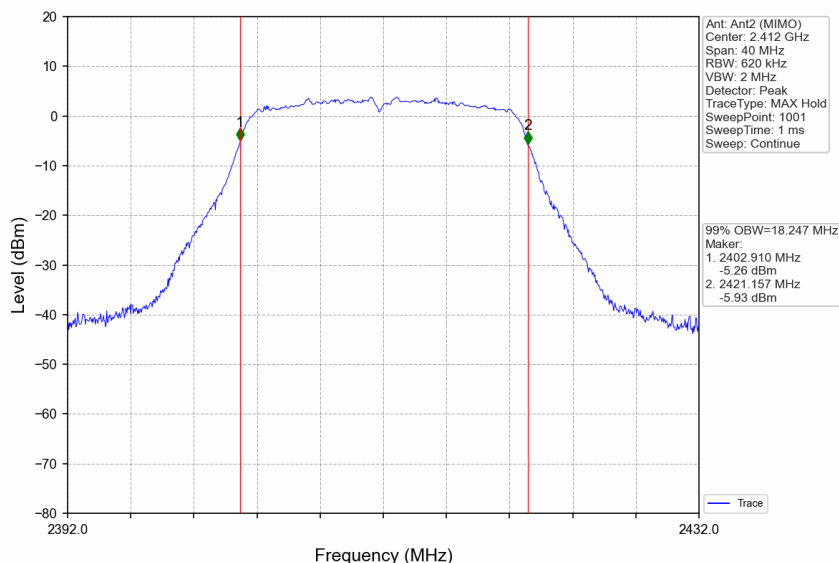
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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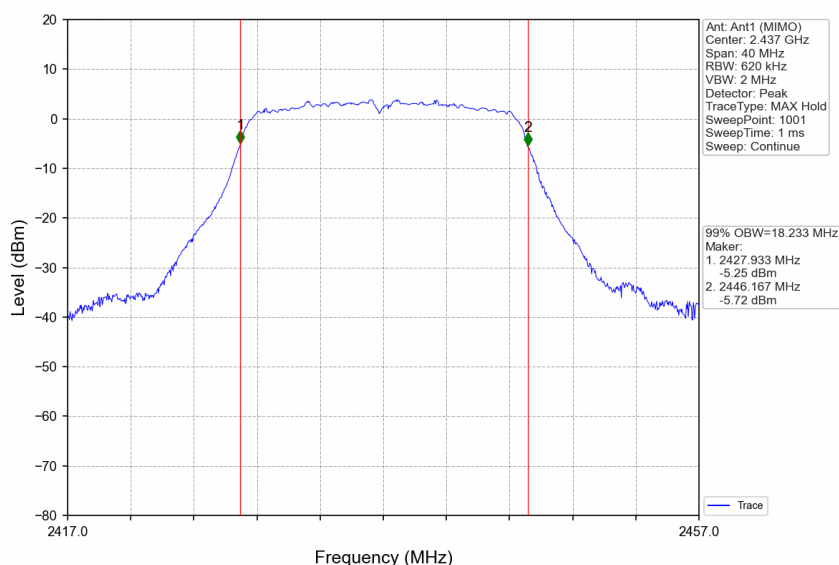
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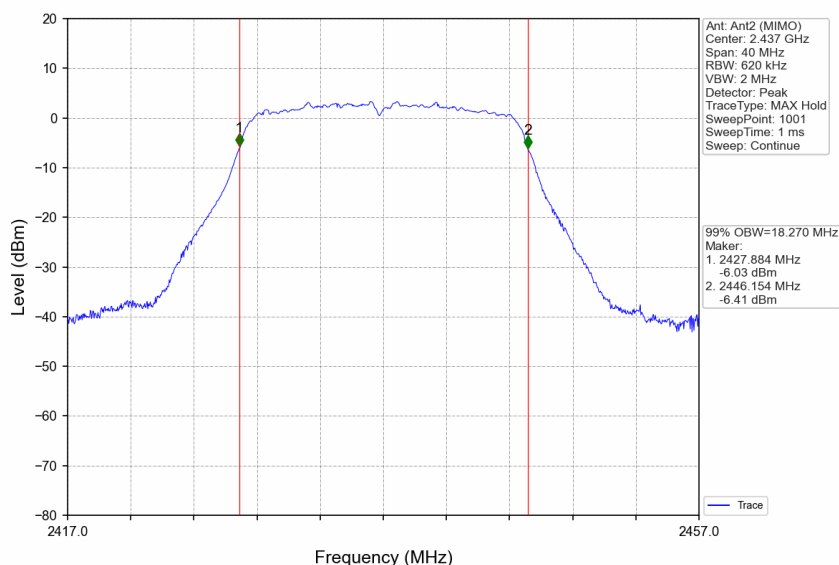
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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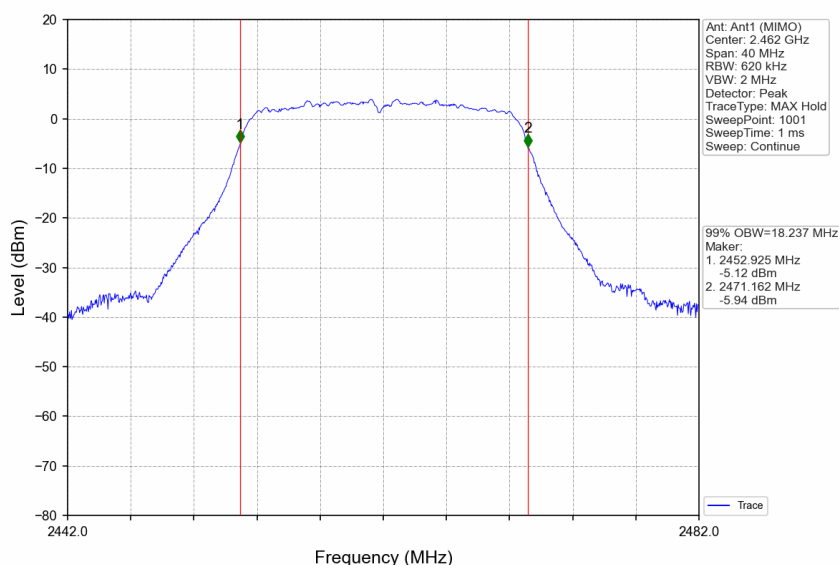
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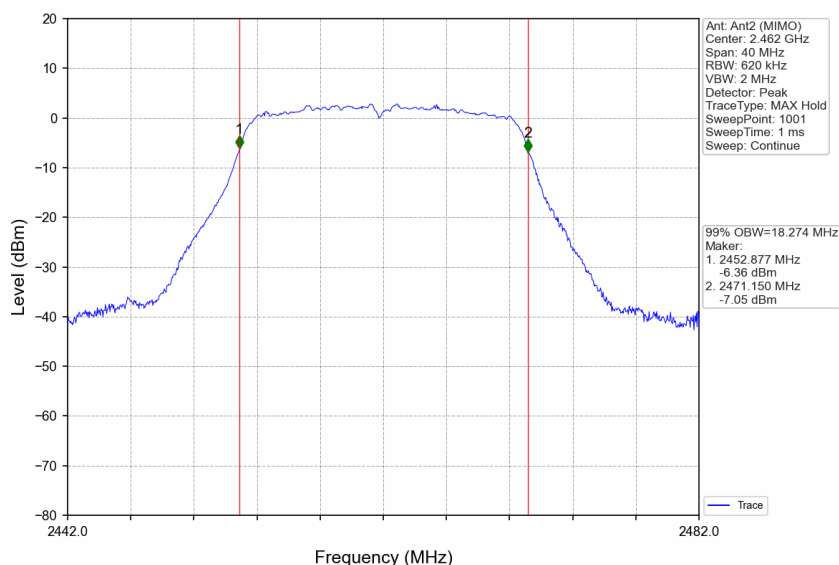
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



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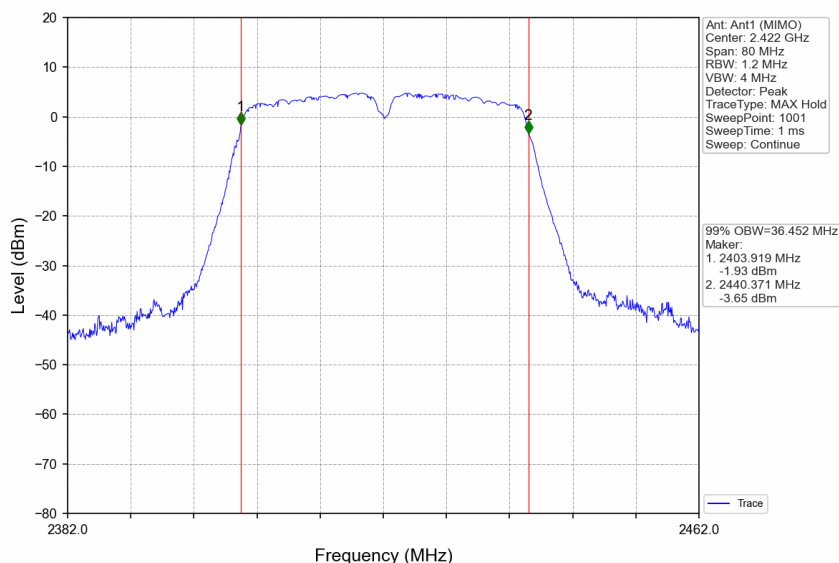
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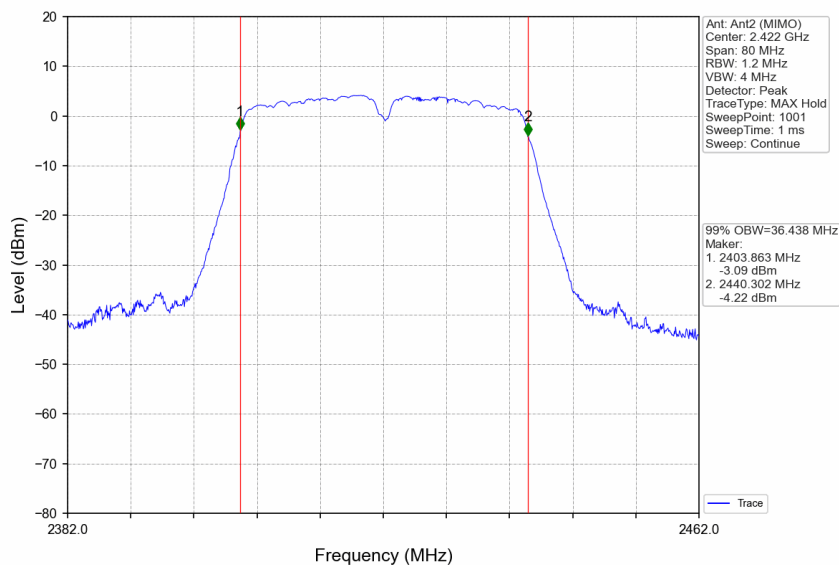
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



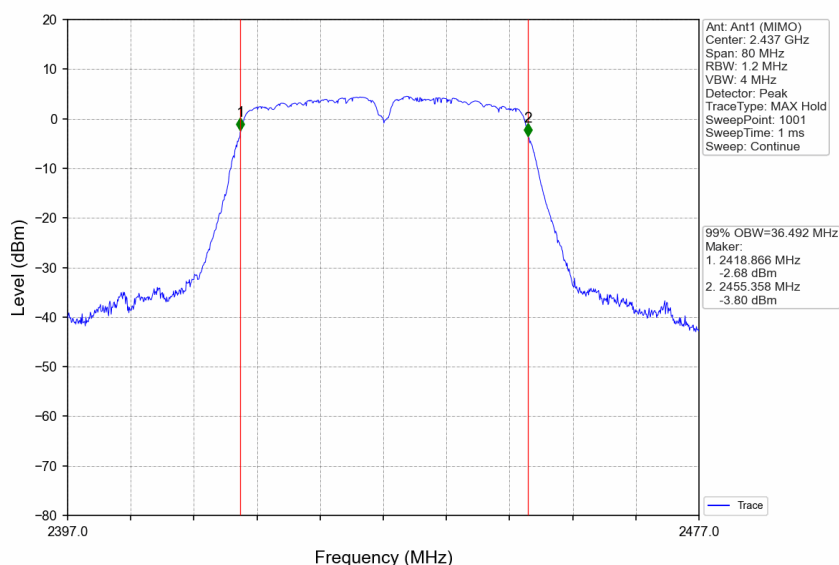
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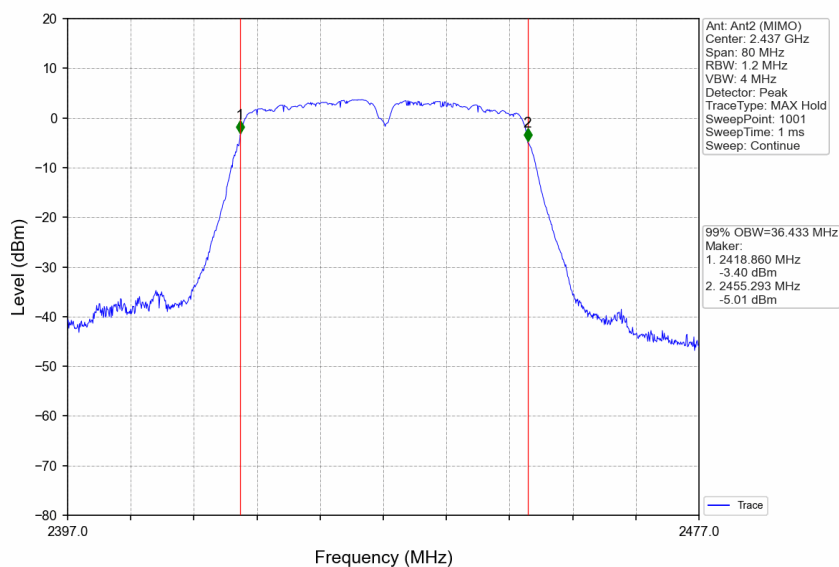
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



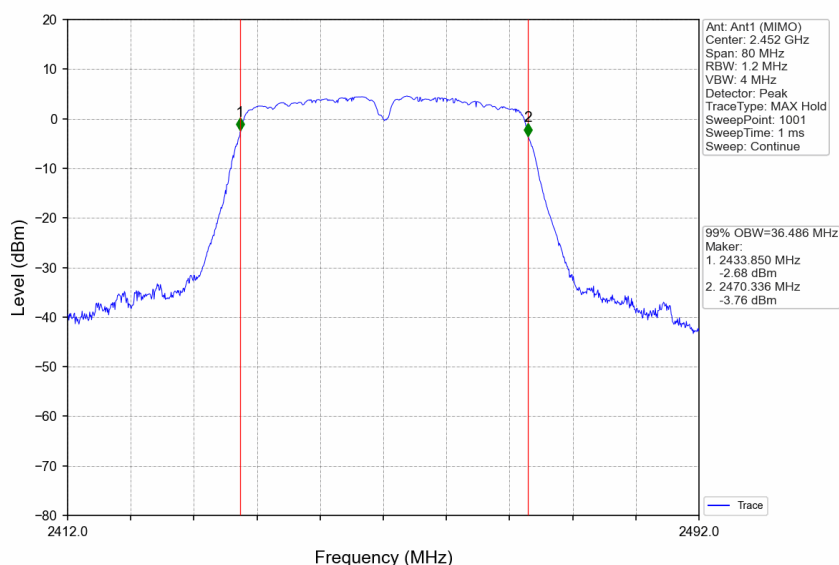
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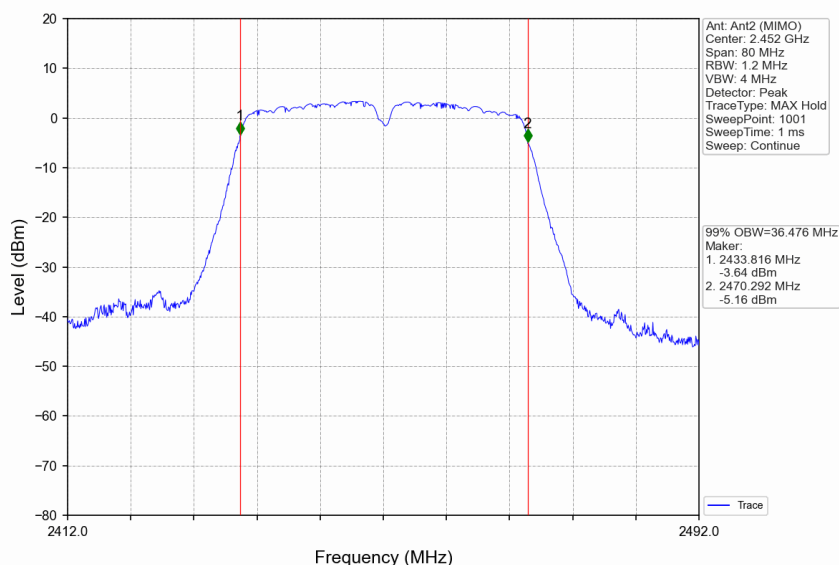
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802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTV



802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTV



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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	10.165	≥ 0.5	Pass
			2	10.165	≥ 0.5	Pass
		2437	1	10.166	≥ 0.5	Pass
			2	10.163	≥ 0.5	Pass
		2462	1	10.169	≥ 0.5	Pass
			2	10.167	≥ 0.5	Pass
802.11g	SISO	2412	1	16.465	≥ 0.5	Pass
			2	16.445	≥ 0.5	Pass
		2437	1	16.459	≥ 0.5	Pass
			2	16.446	≥ 0.5	Pass
		2462	1	16.464	≥ 0.5	Pass
			2	16.447	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.656	≥ 0.5	Pass
			2	17.650	≥ 0.5	Pass
		2437	1	17.652	≥ 0.5	Pass
			2	17.644	≥ 0.5	Pass
		2462	1	17.668	≥ 0.5	Pass
			2	17.662	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.432	≥ 0.5	Pass
			2	36.428	≥ 0.5	Pass
		2437	1	36.429	≥ 0.5	Pass
			2	36.422	≥ 0.5	Pass
		2452	1	36.425	≥ 0.5	Pass
			2	36.433	≥ 0.5	Pass



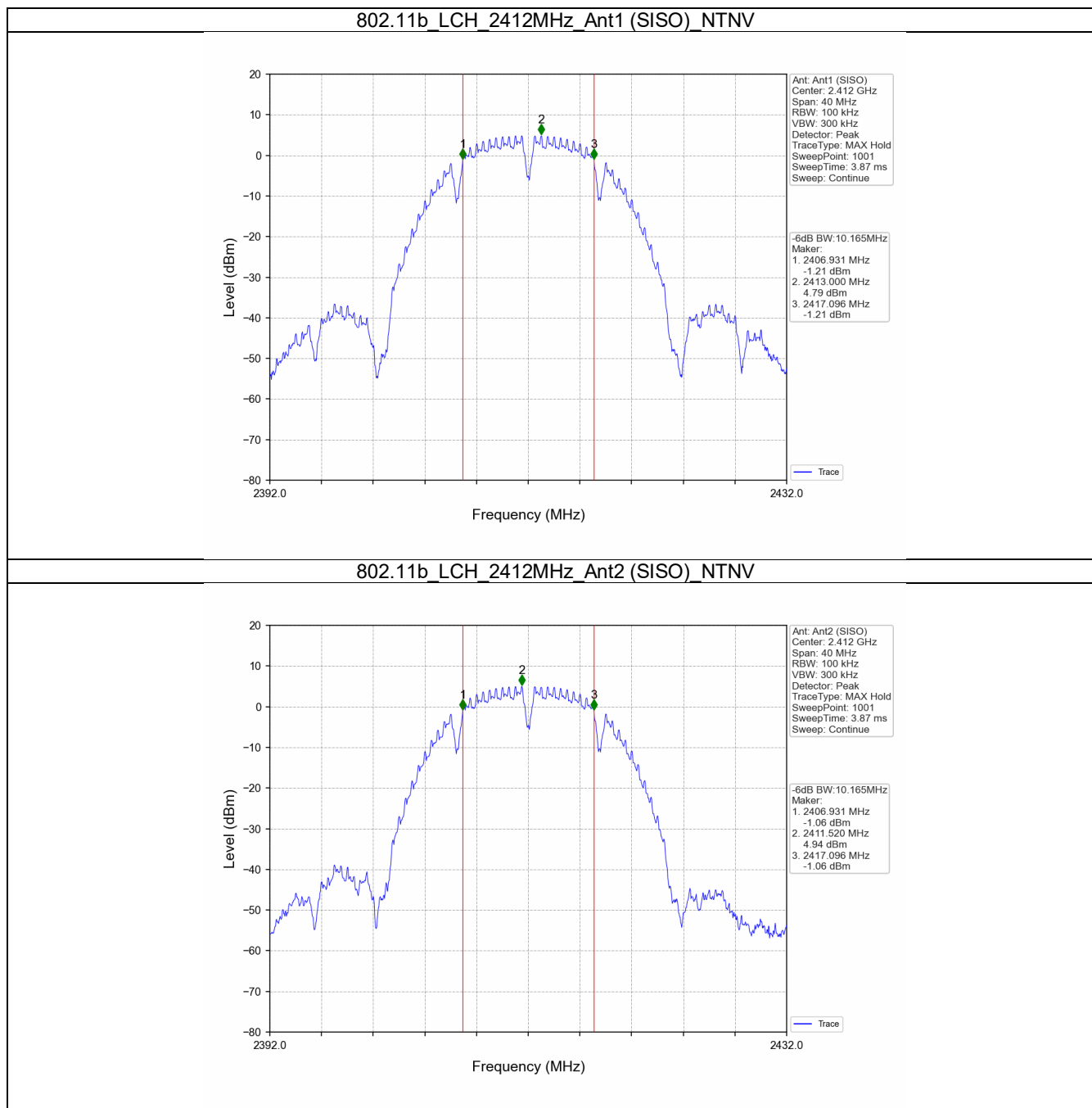
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2.2.2 Test Graph



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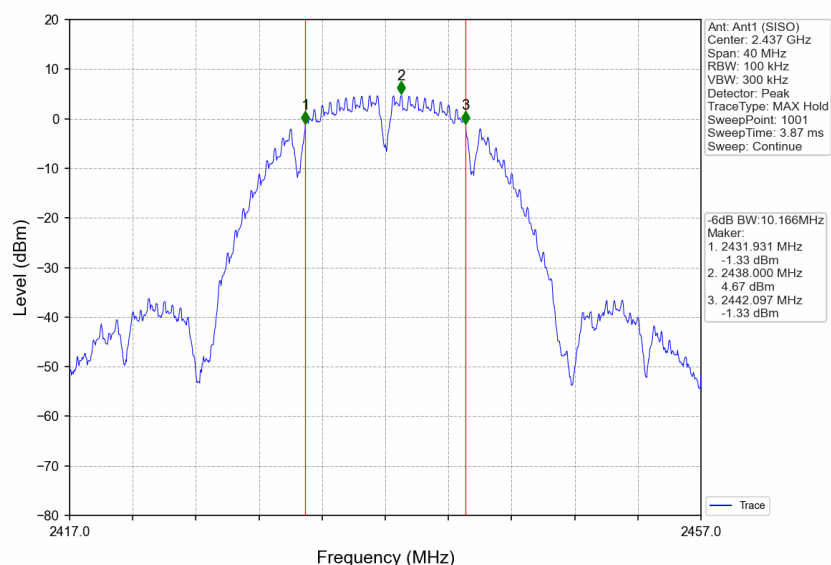
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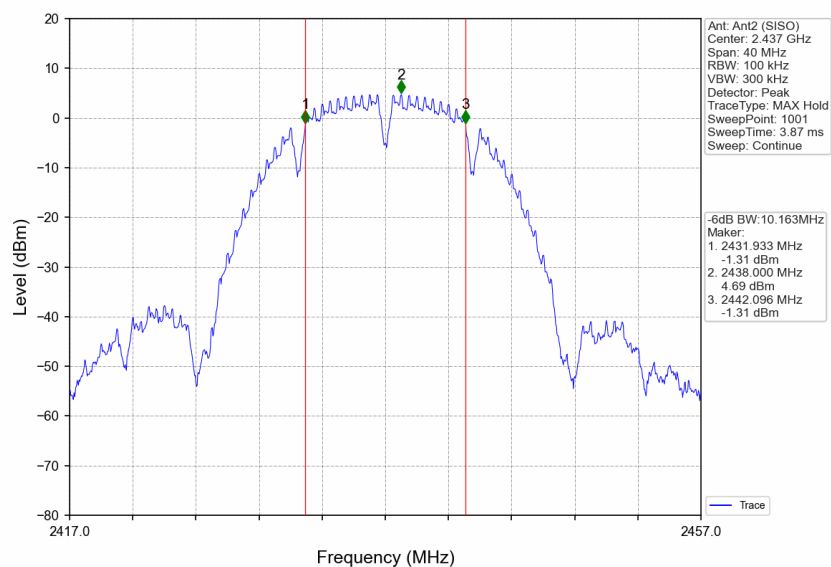
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



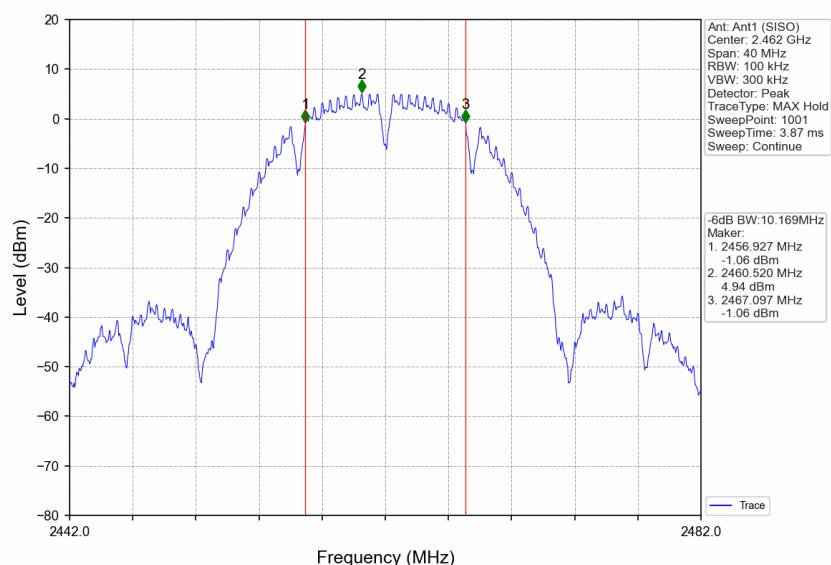
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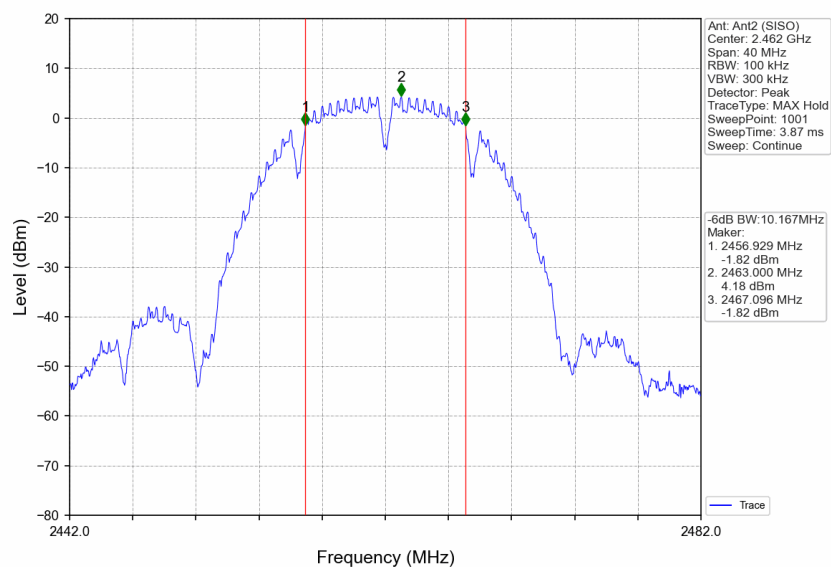
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802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



802.11b HCH 2462MHz_Ant2 (SISO)_NTNV



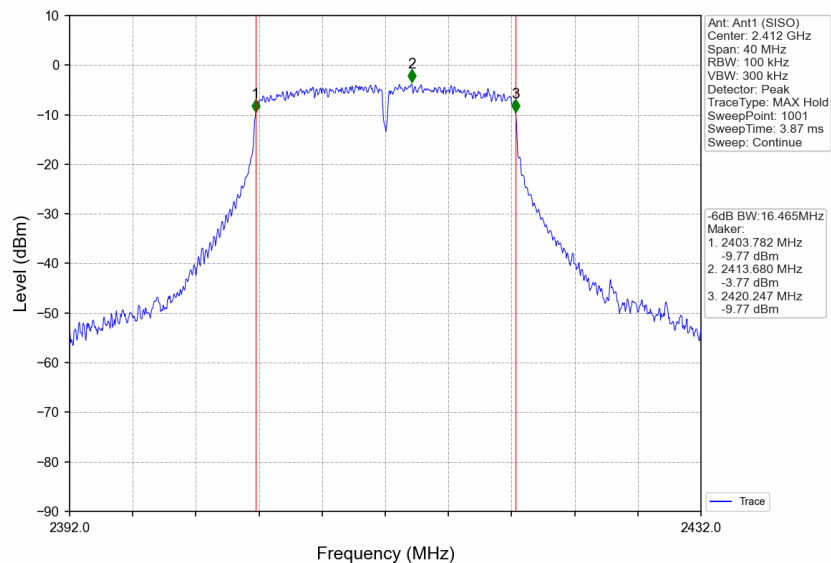
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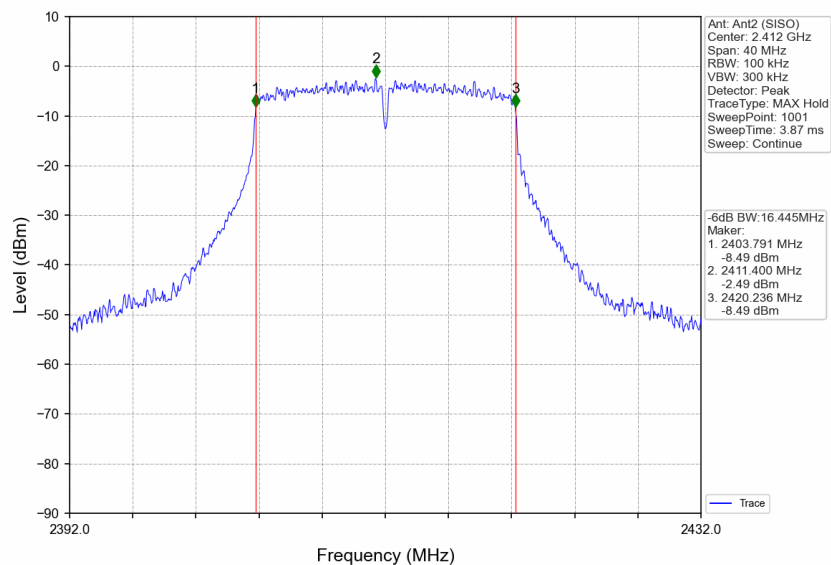
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



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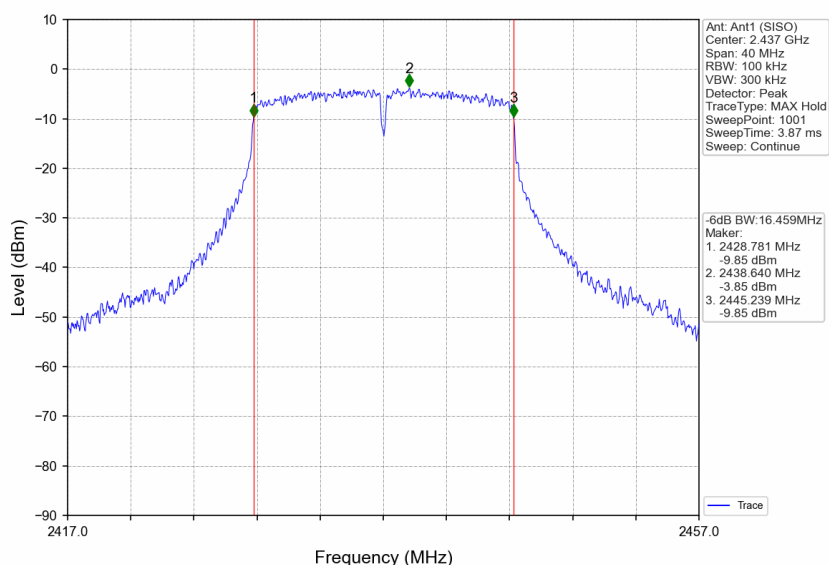
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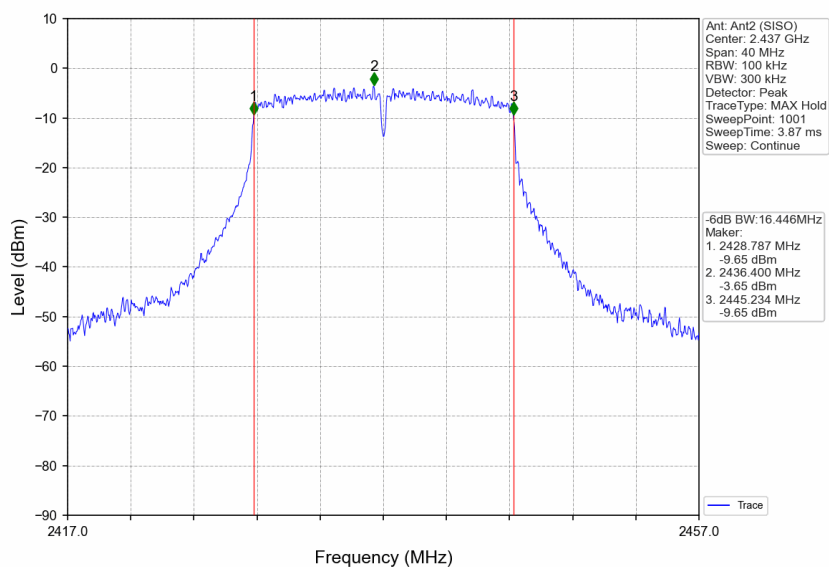
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



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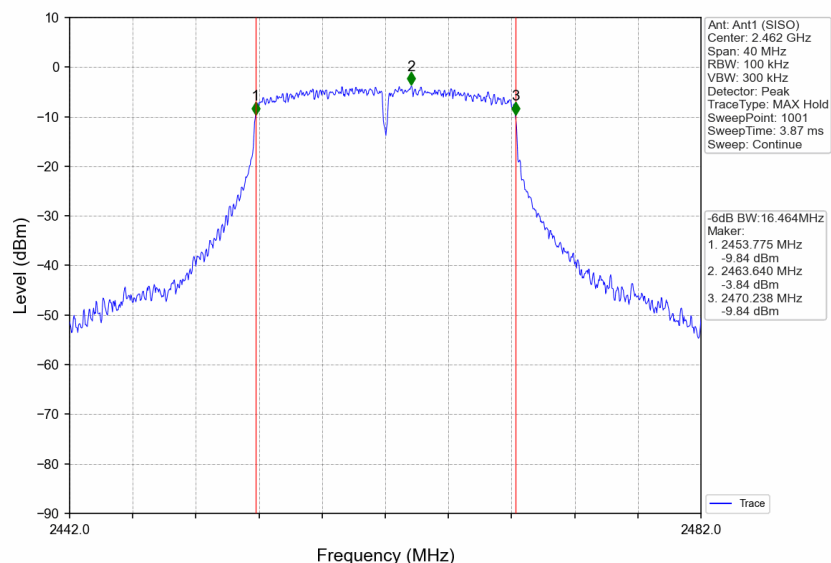
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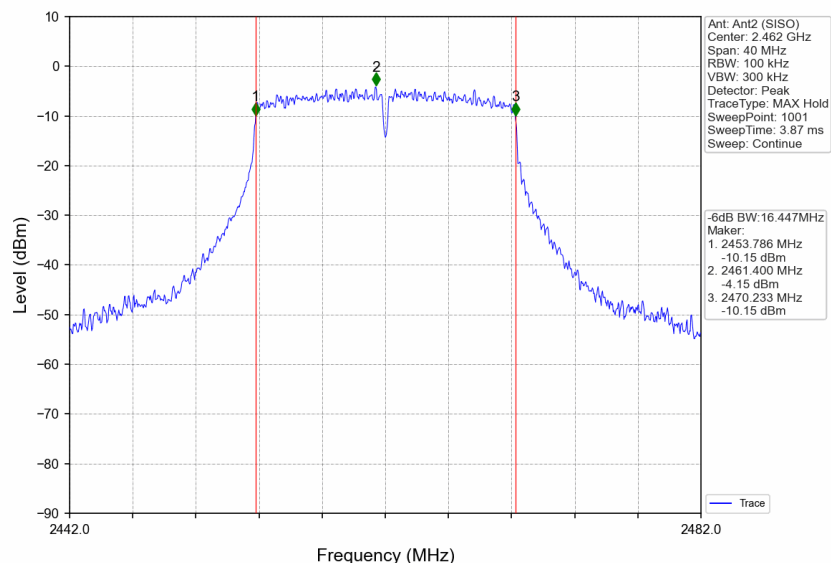
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



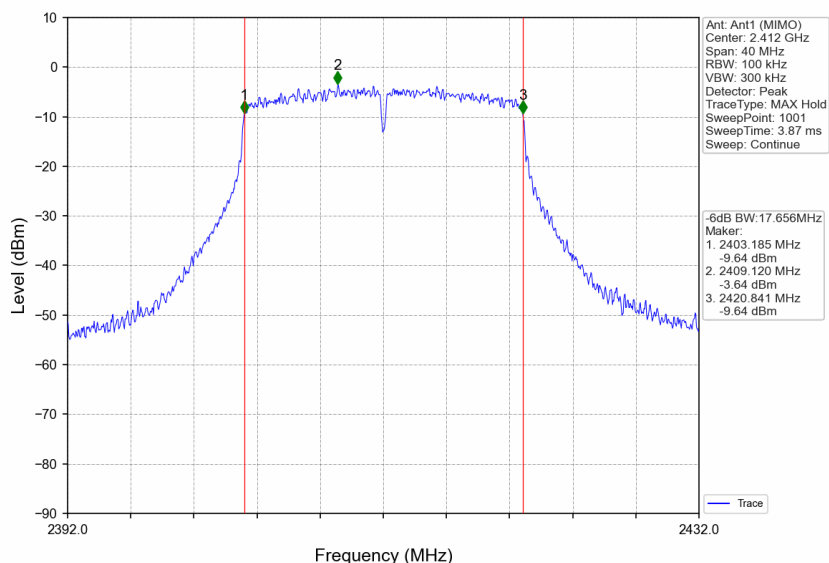
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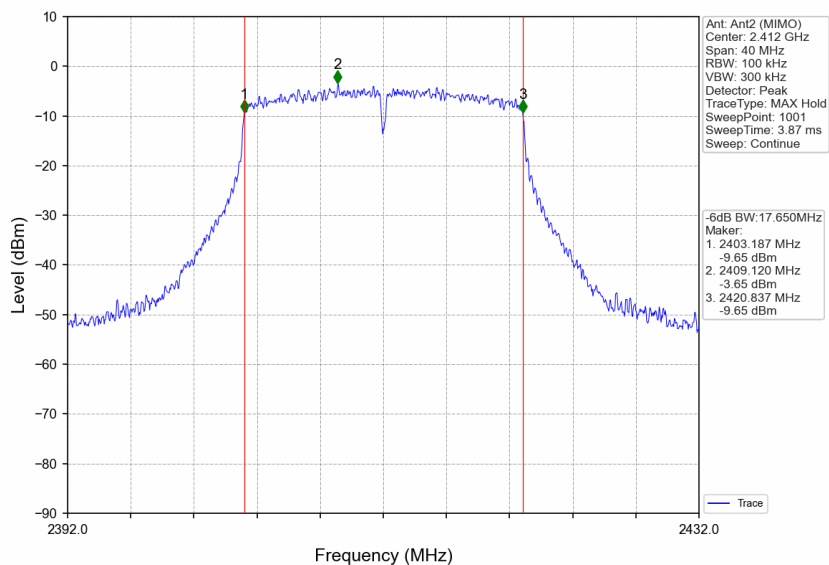
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



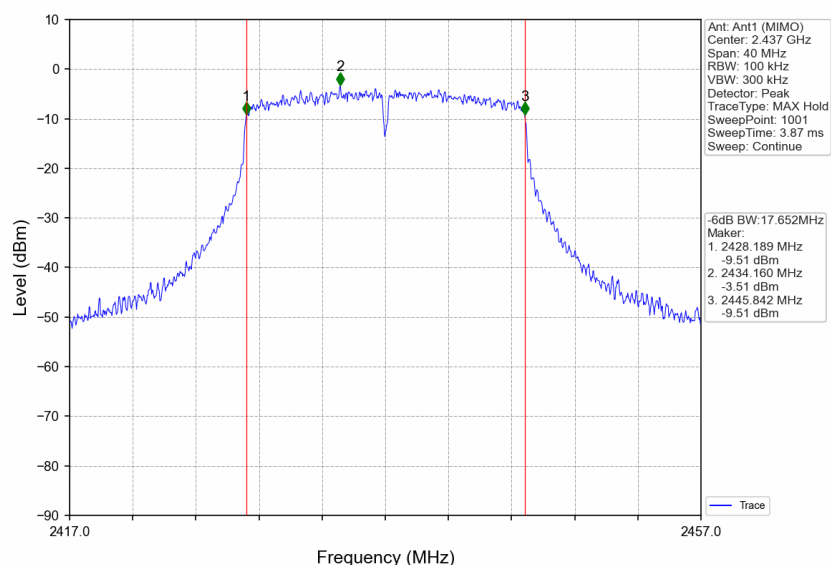
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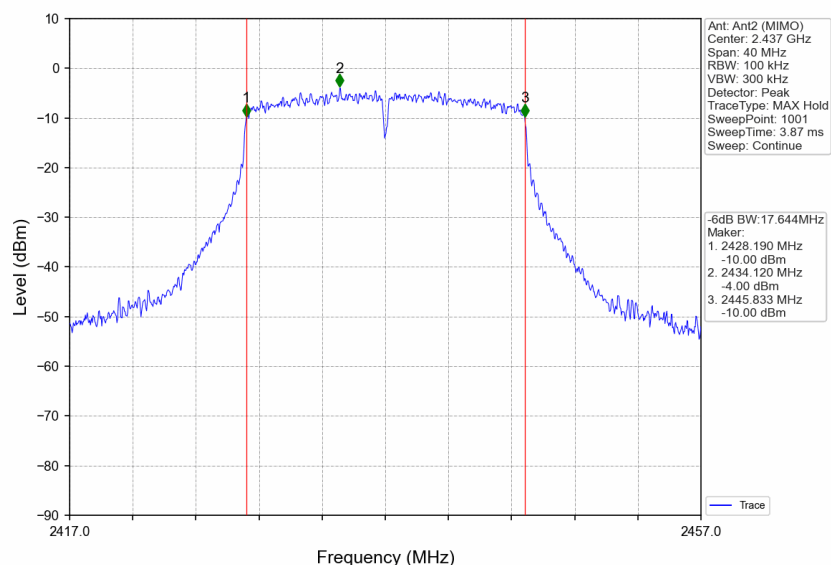
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



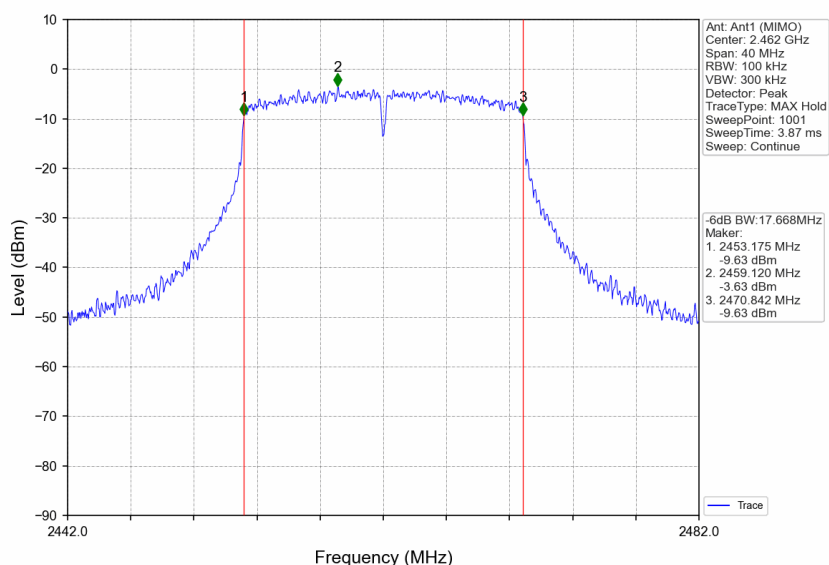
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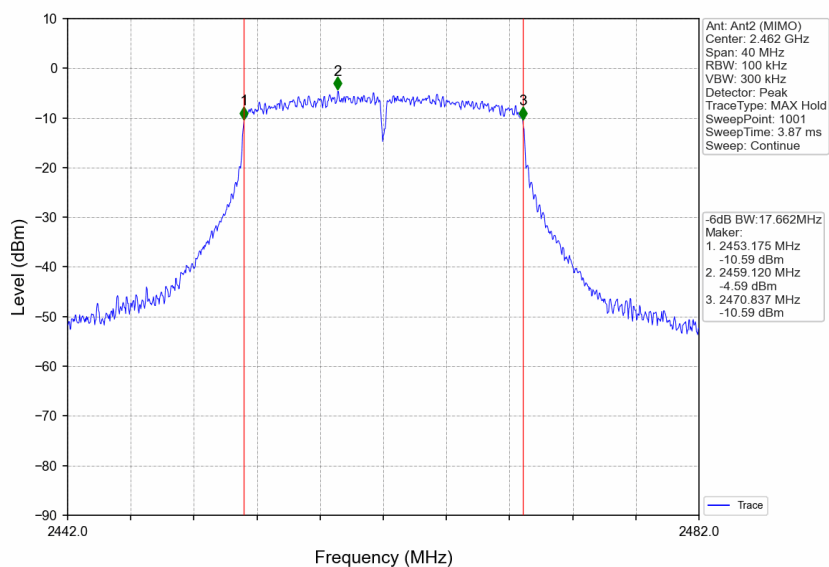
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802.11n(HT20) HCH 2462MHz Ant1 (MIMO) NTV



802.11n(HT20) HCH 2462MHz Ant2 (MIMO) NTV



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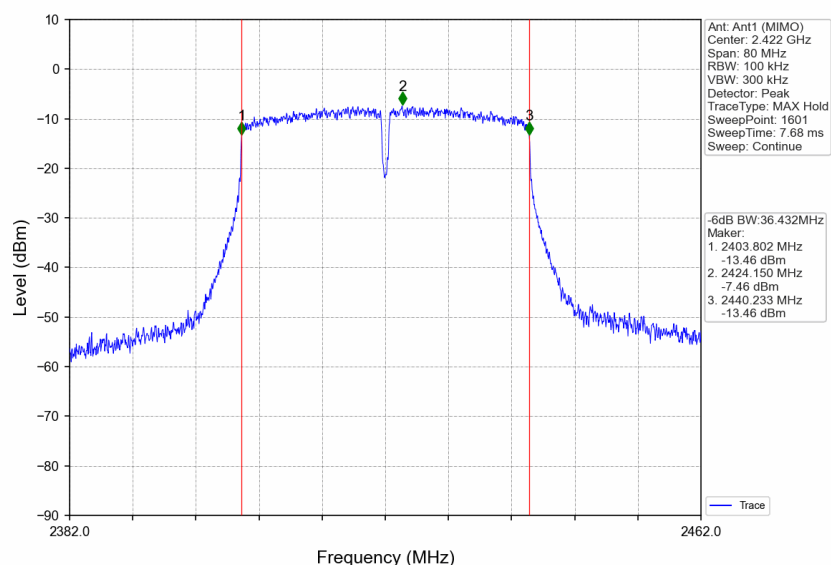
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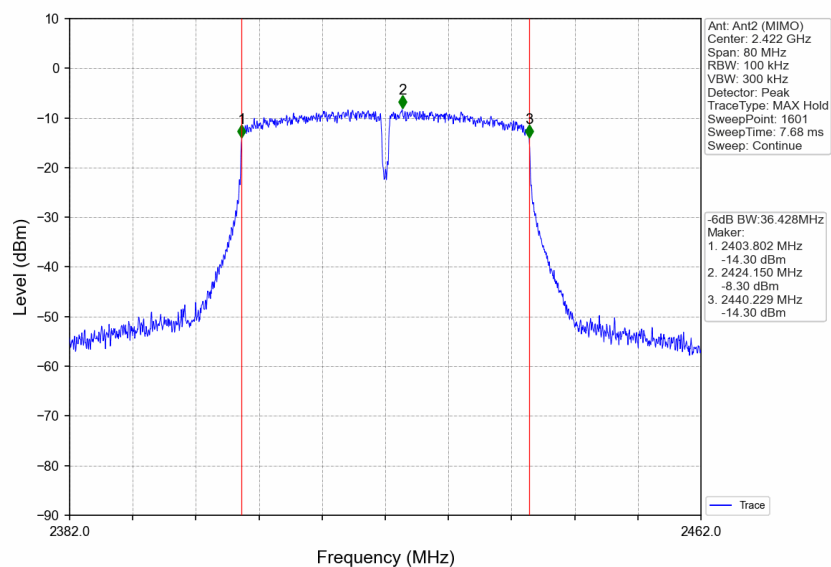
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802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



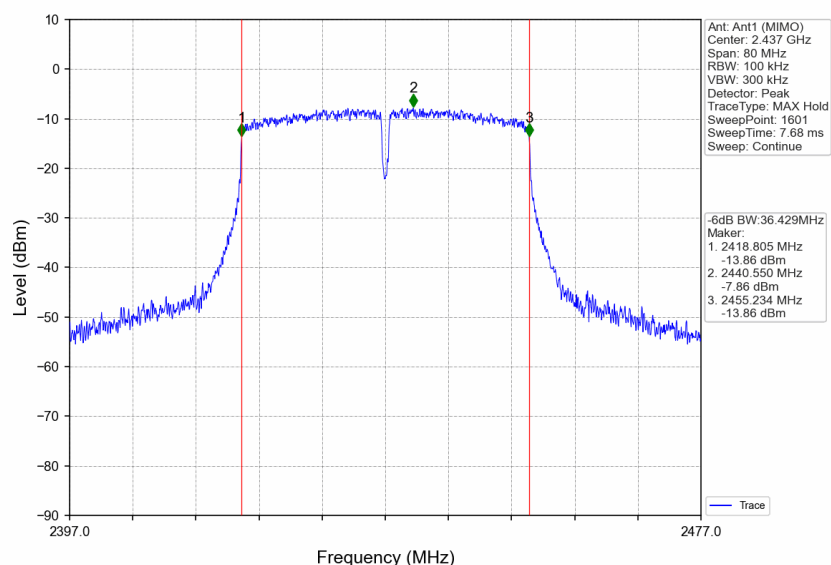
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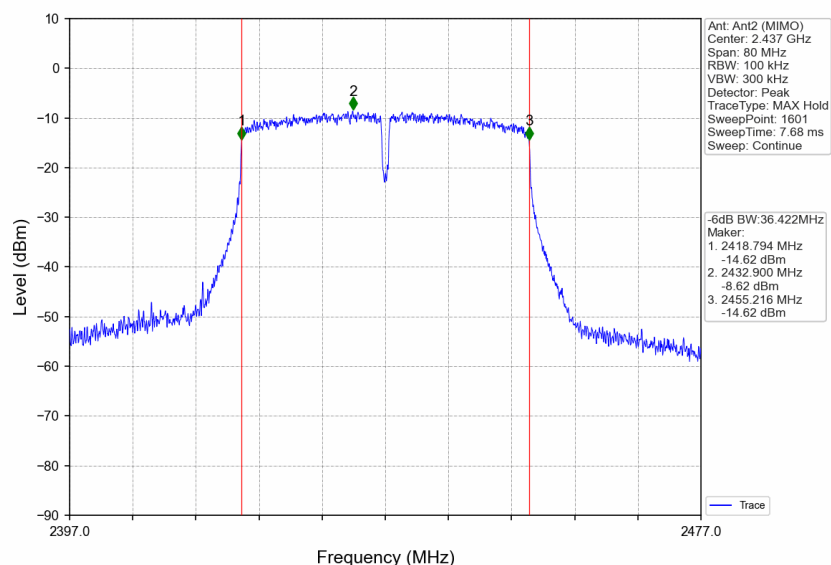
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



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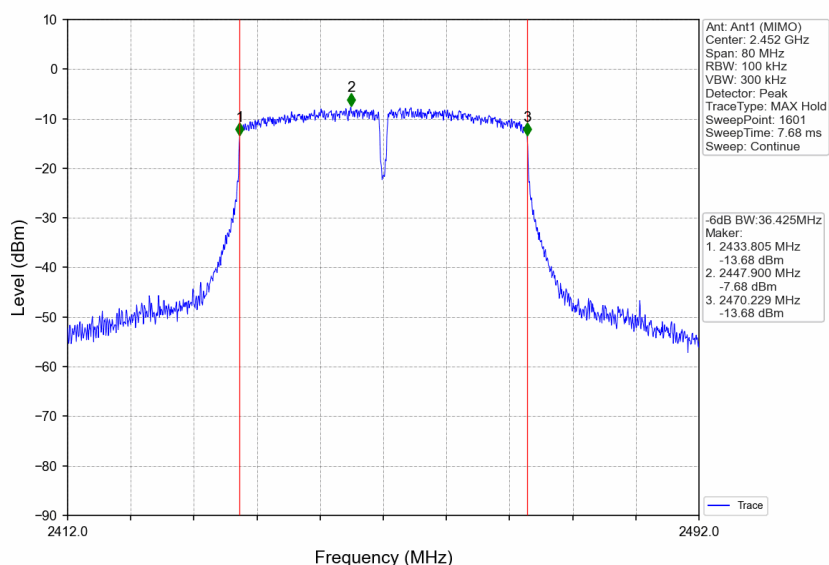
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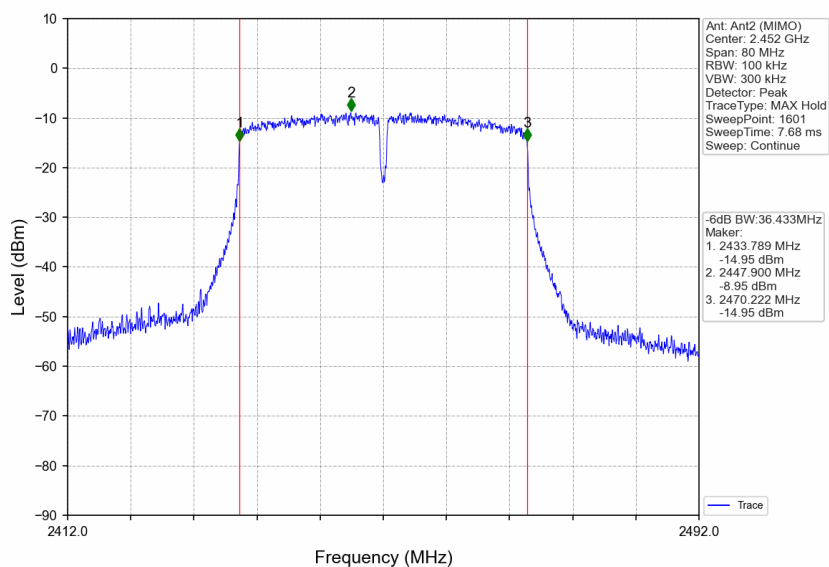
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802.11n(HT40) HCH 2452MHz_Ant2 (MIMO) NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	17.67	17.82	/	<=30	Pass
		2437	17.52	17.55	/	<=30	Pass
		2462	17.88	17.07	/	<=30	Pass
802.11g	SISO	2412	17.77	17.83	/	<=30	Pass
		2437	17.58	17.36	/	<=30	Pass
		2462	17.66	16.87	/	<=30	Pass
802.11n (HT20)	MIMO	2412	17.86	17.66	20.77	<=30	Pass
		2437	17.70	17.22	20.48	<=30	Pass
		2462	17.74	16.76	20.29	<=30	Pass
802.11n (HT40)	MIMO	2422	17.35	16.57	19.99	<=30	Pass
		2437	17.05	16.15	19.63	<=30	Pass
		2452	17.09	15.92	19.55	<=30	Pass

Note1: Antenna Gain: Ant1: 1.75dBi; Ant2: 3.38dBi;
Note2: Directional Gain: 5.65dBi.

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	-15.33	-15.19	/	<=8	Pass
		2437	-15.42	-15.47	/	<=8	Pass
		2462	-15.14	-15.95	/	<=8	Pass
802.11g	SISO	2412	-17.91	-18.30	/	<=8	Pass
		2437	-17.93	-18.77	/	<=8	Pass
		2462	-17.87	-19.26	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-17.44	-17.72	-14.80	<=8	Pass
		2437	-17.24	-18.16	-14.66	<=8	Pass
		2462	-16.88	-18.35	-14.54	<=8	Pass
802.11n (HT40)	MIMO	2422	-19.43	-20.26	-16.97	<=8	Pass
		2437	-19.05	-20.86	-16.85	<=8	Pass
		2452	-19.35	-20.66	-16.94	<=8	Pass

Note1: Antenna Gain: Ant1: 1.75dBi; Ant2: 3.38dBi;
Note2: Directional Gain: 5.65dBi.



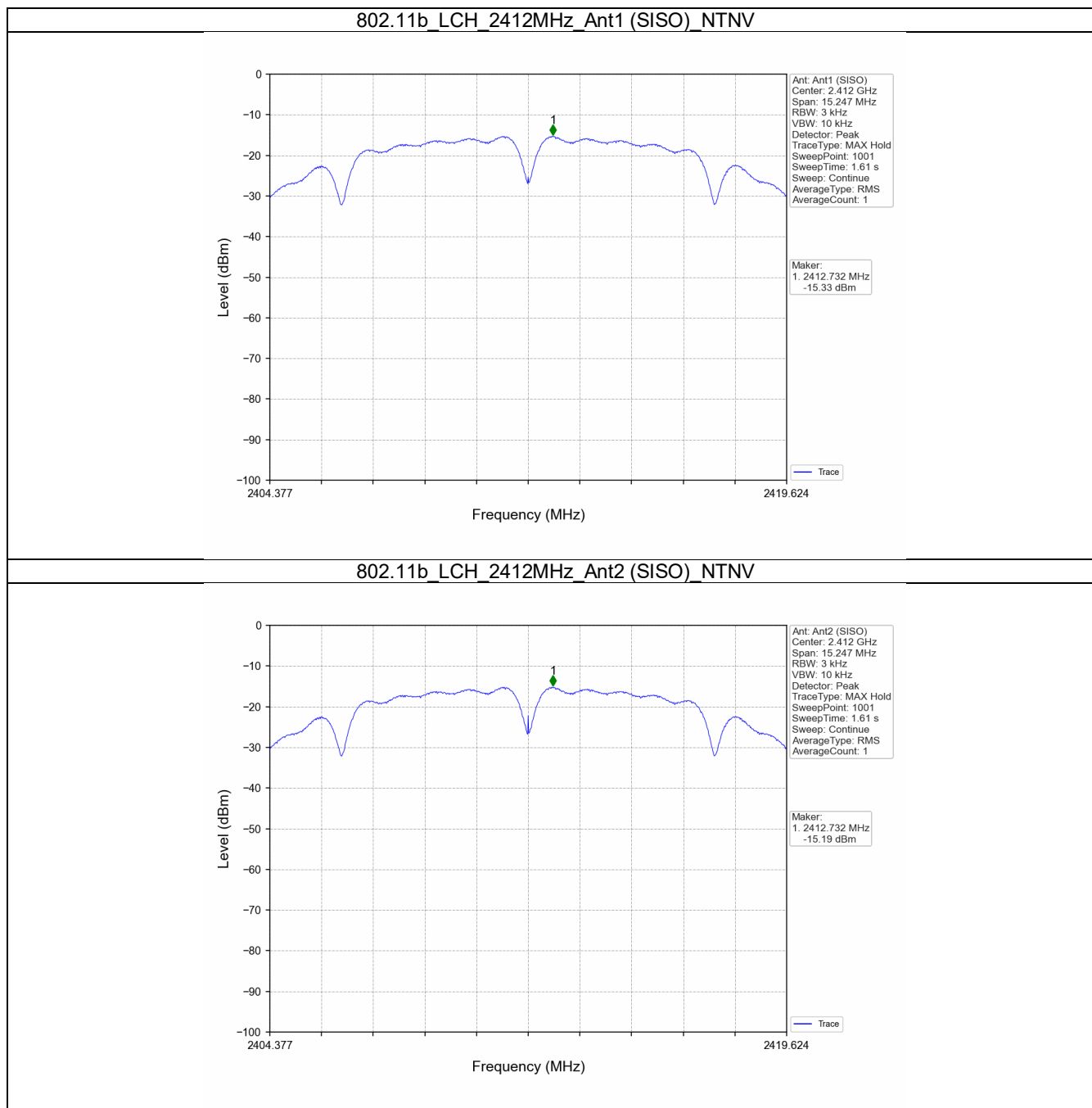
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4.1.2 Test Graph



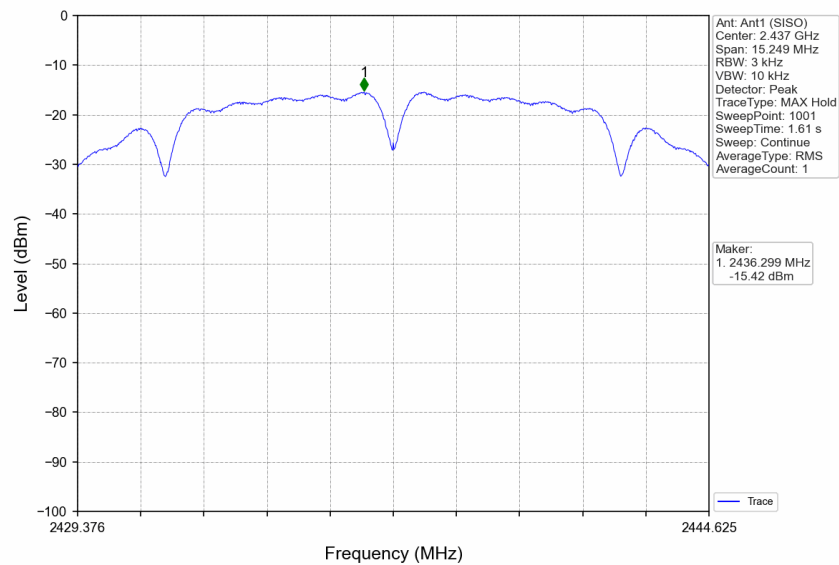
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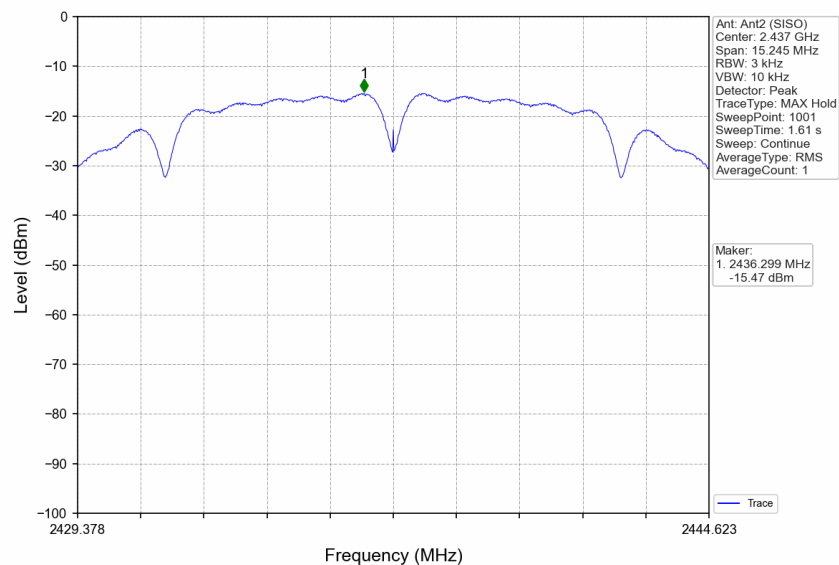
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802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



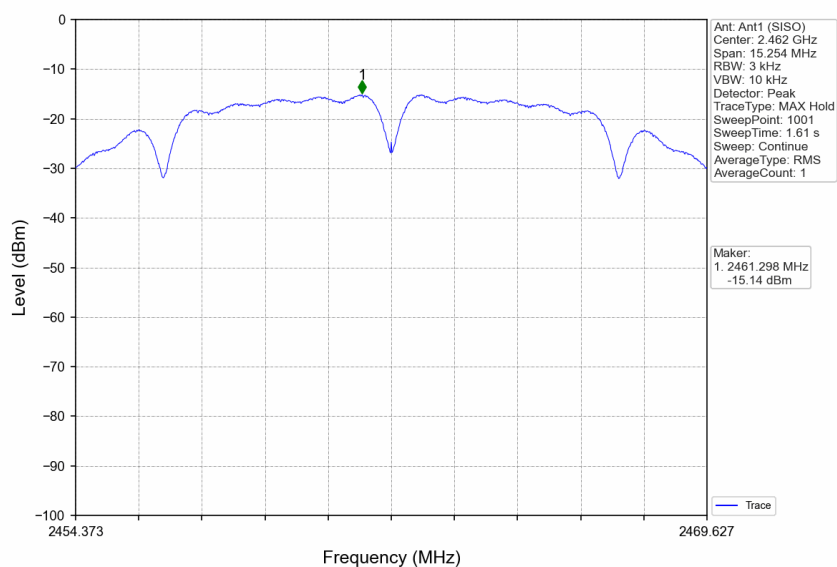
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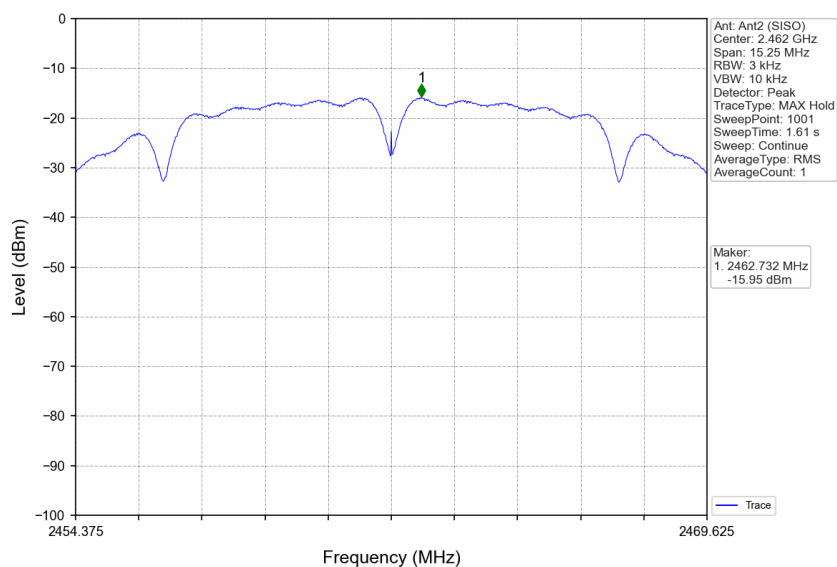
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802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



802.11b HCH 2462MHz_Ant2 (SISO)_NTNV



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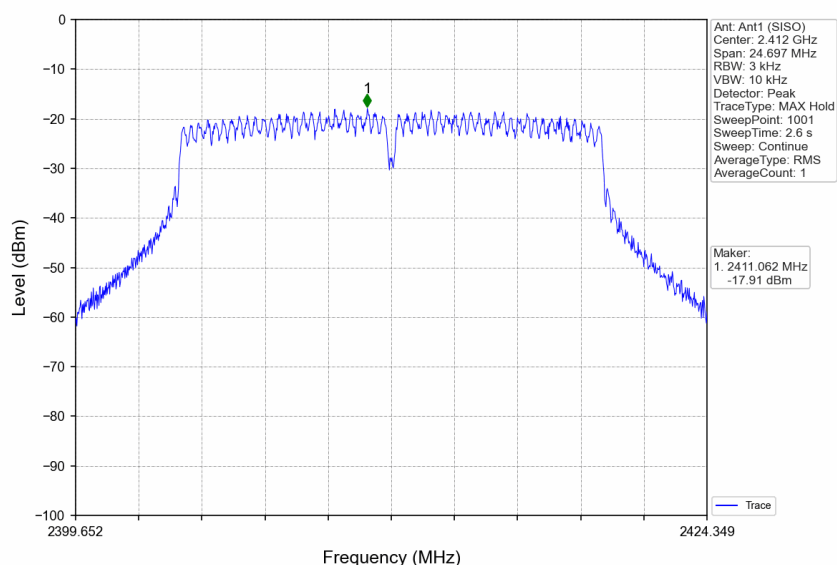
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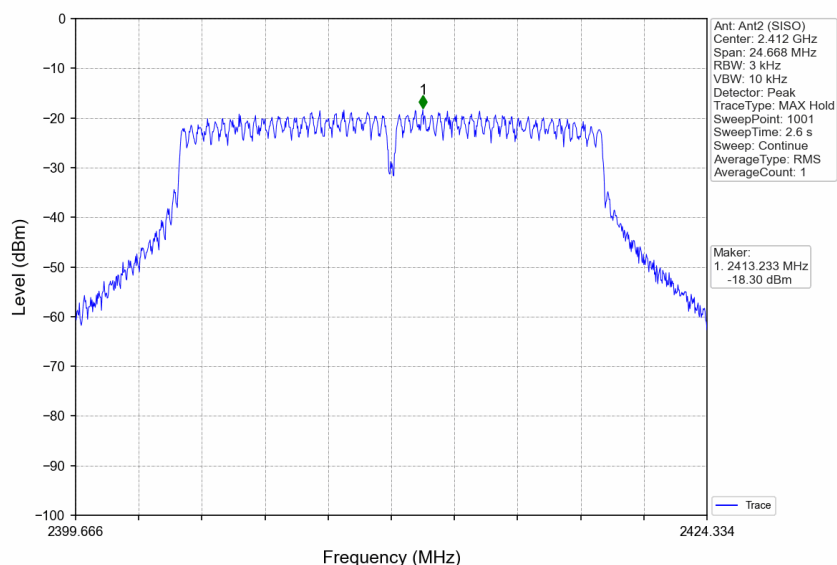
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



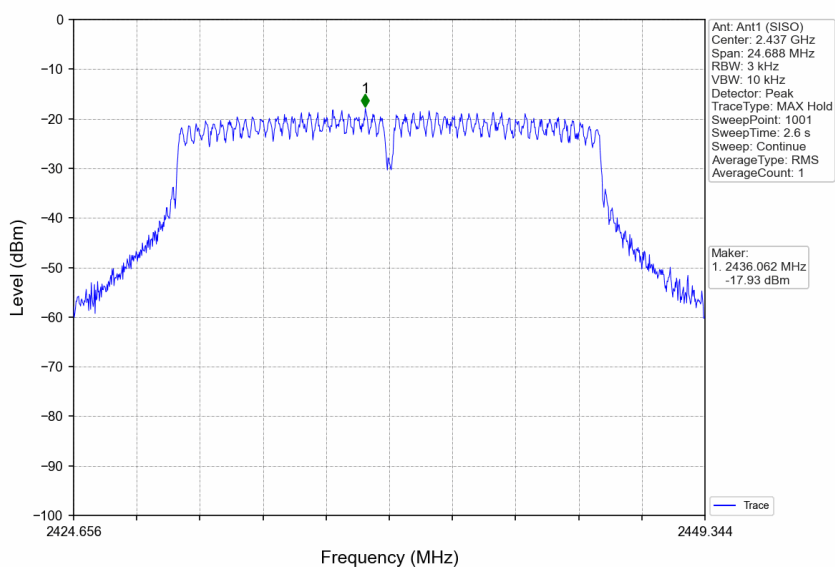
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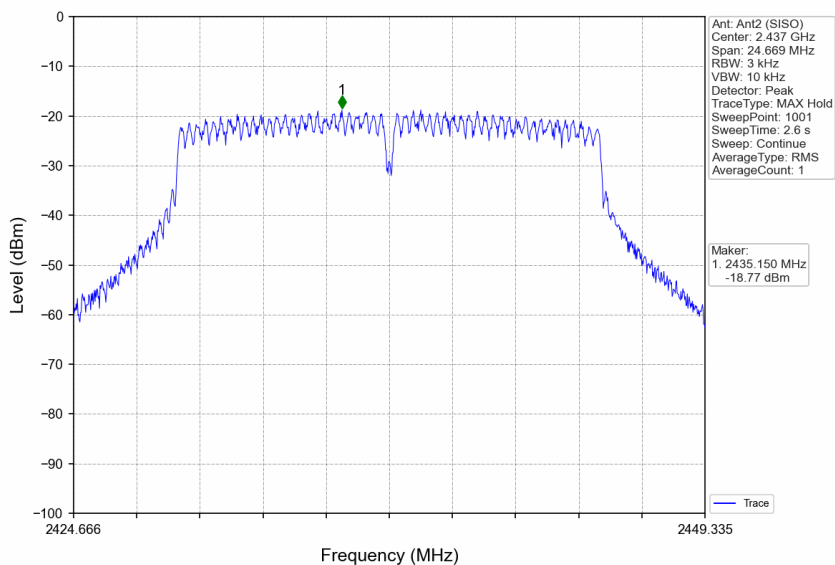
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



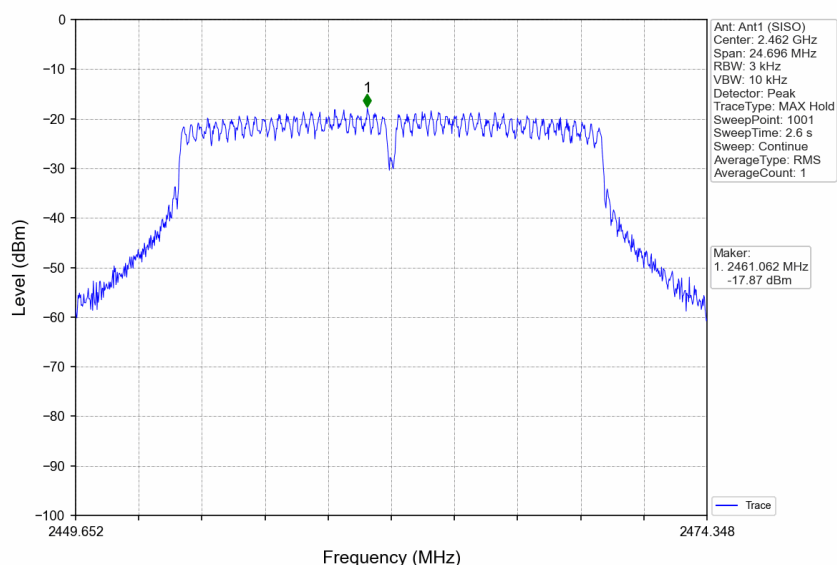
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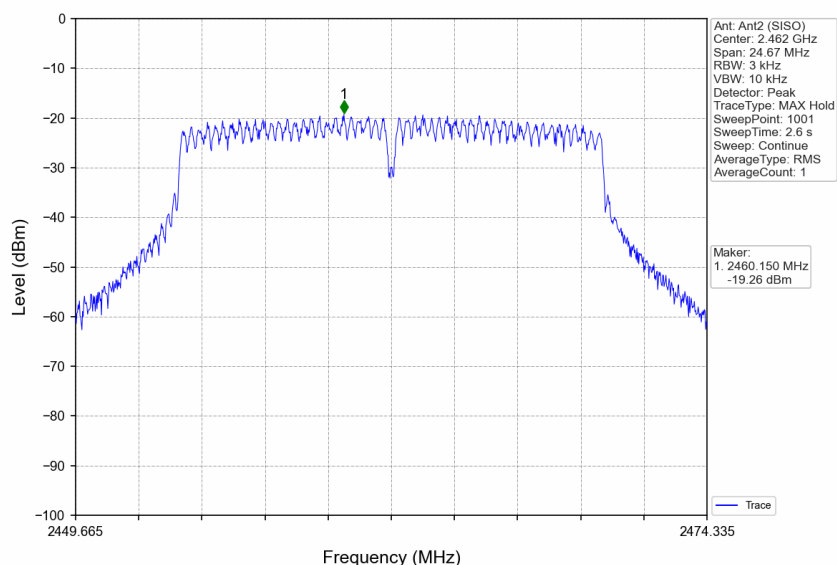
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



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