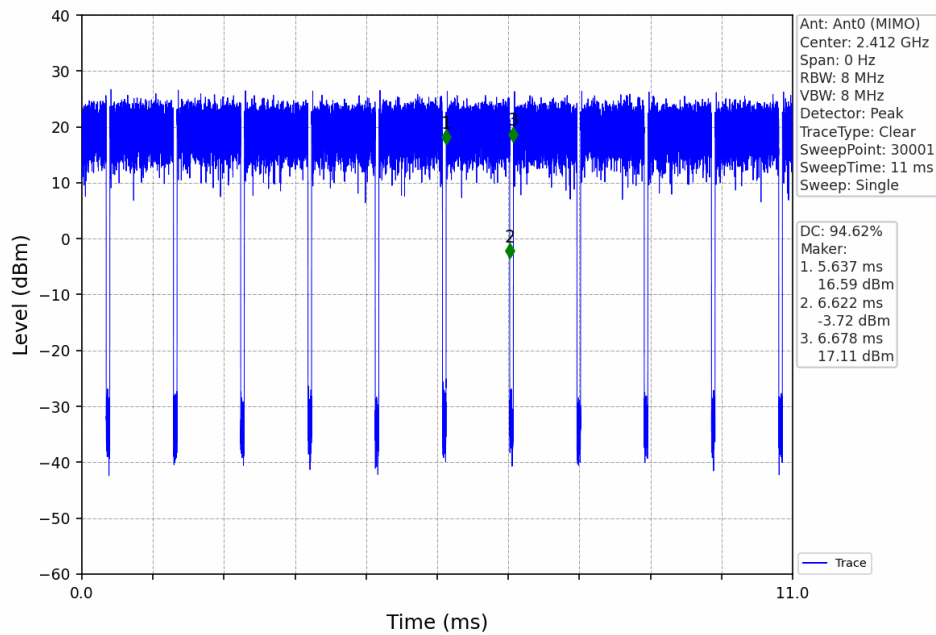
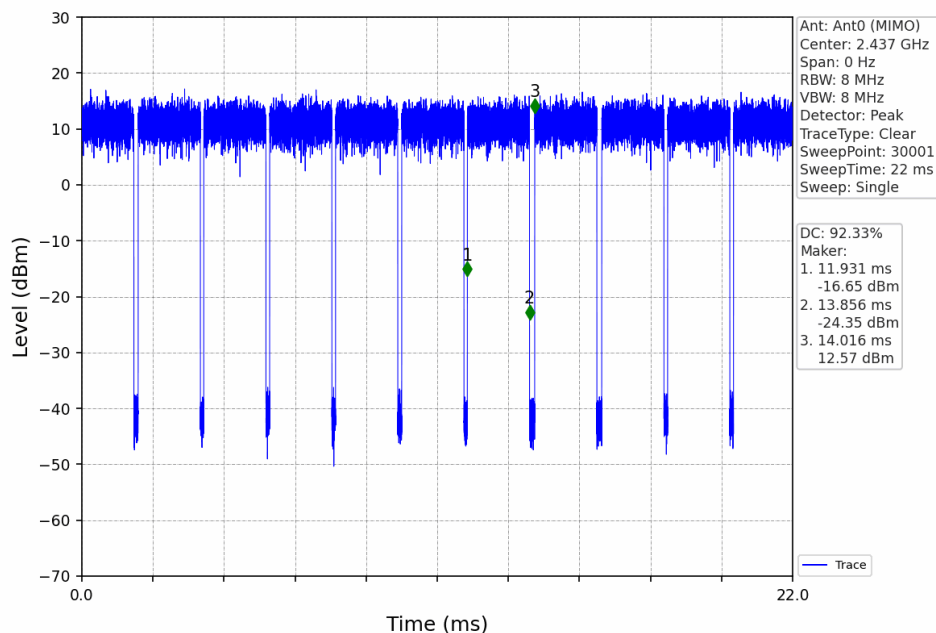


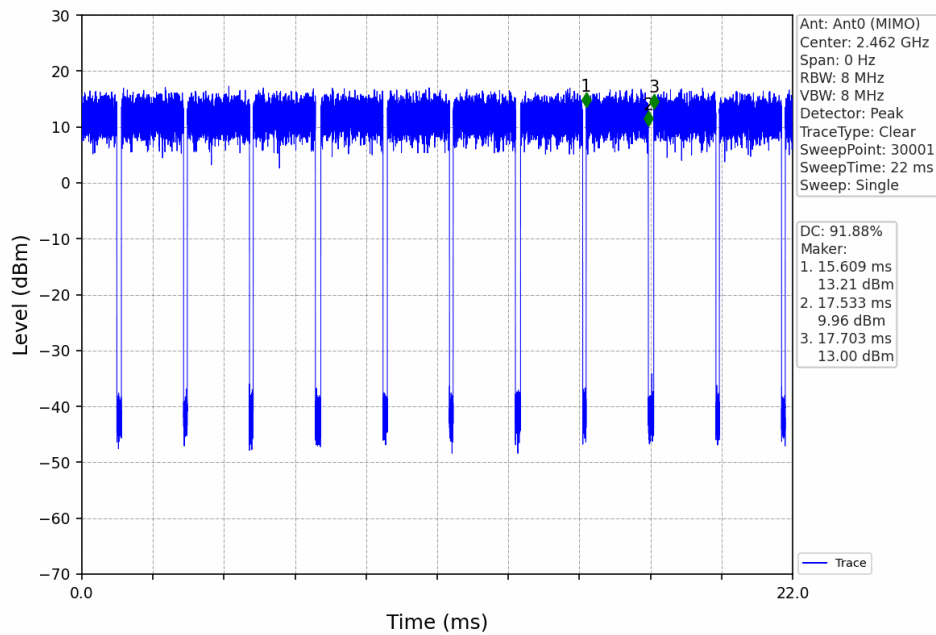
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



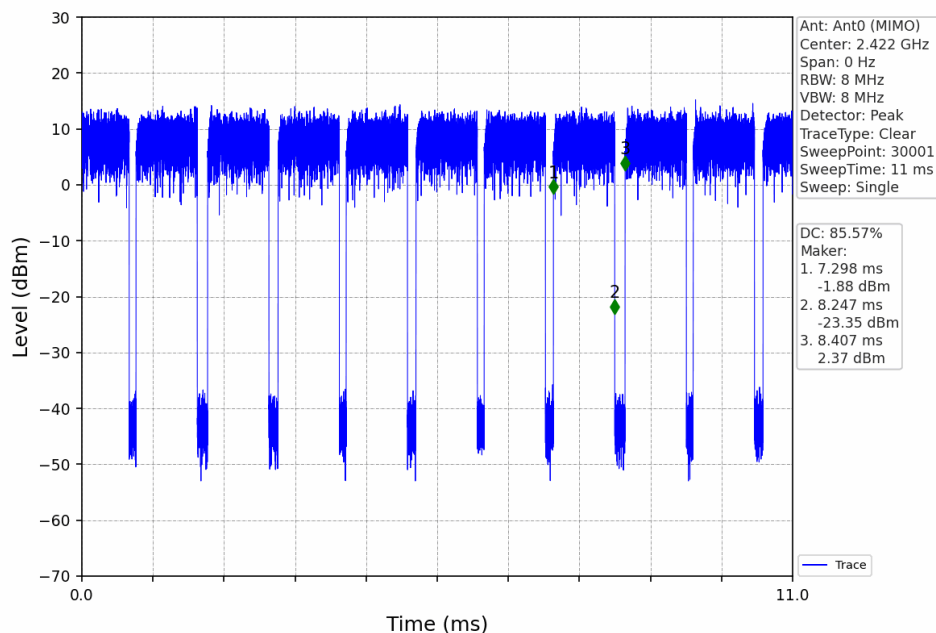
802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



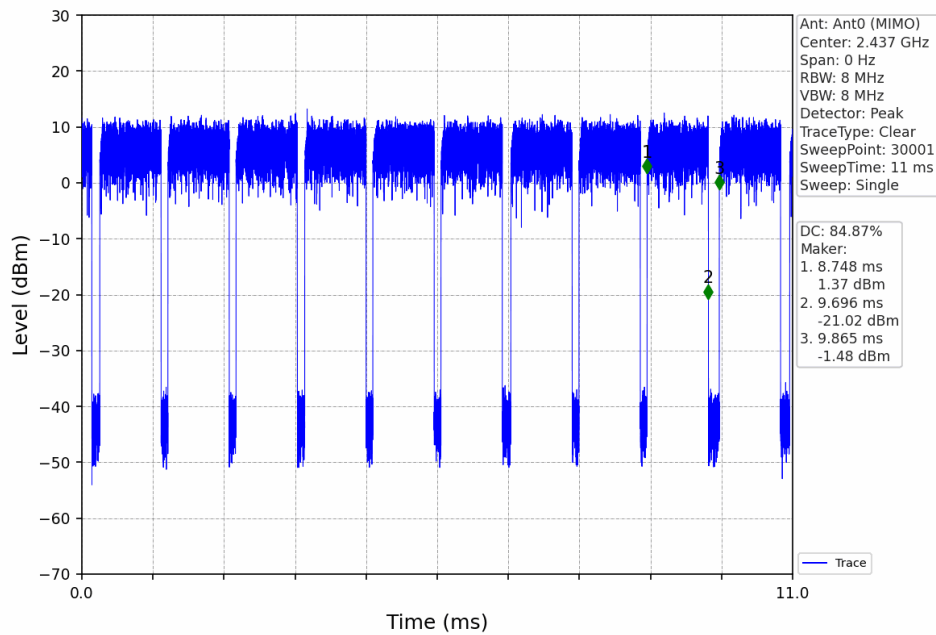
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



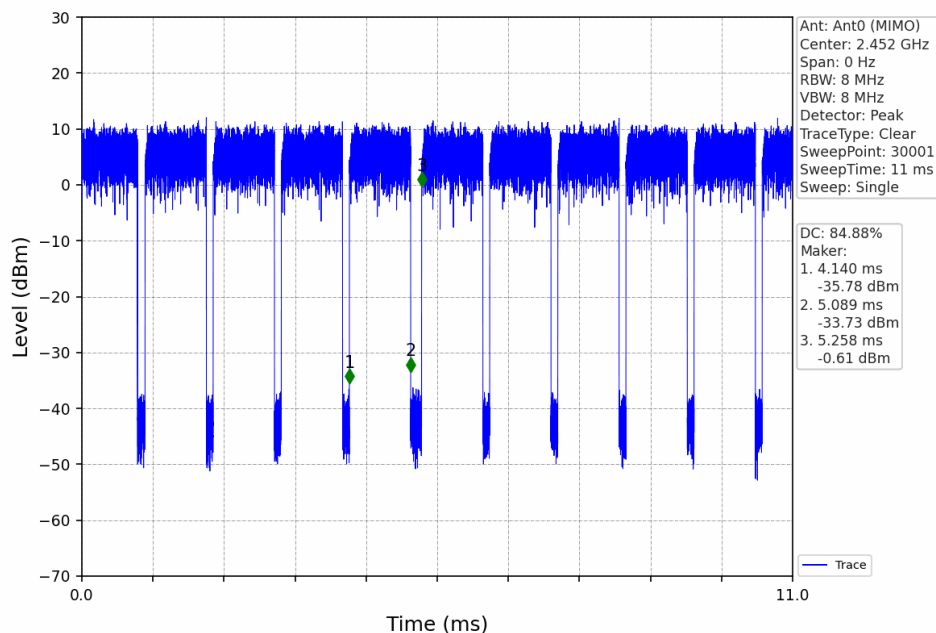
802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant0 (MIMO)_NTNV



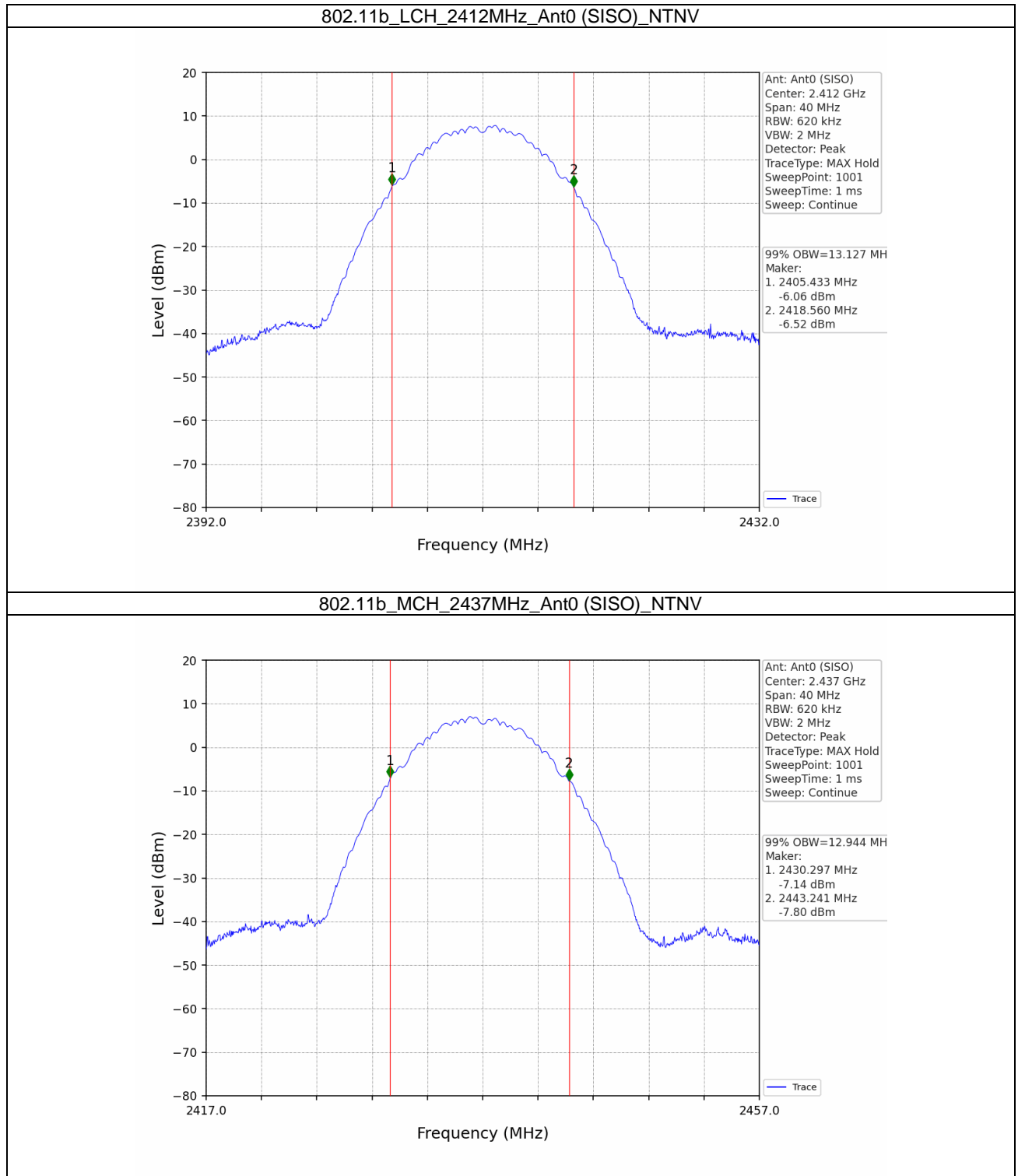
2. Bandwidth

2.1 OBW

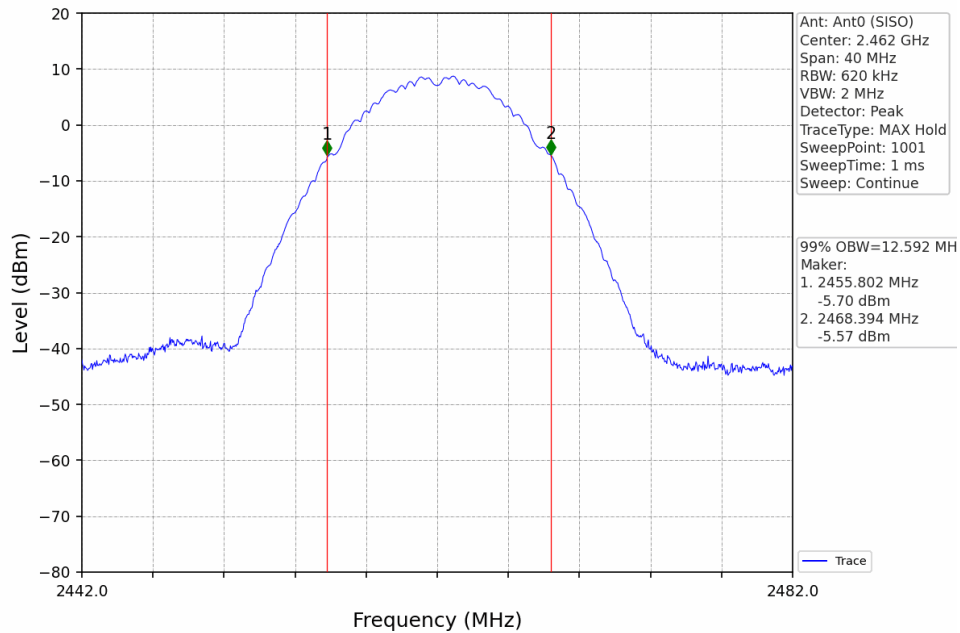
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	0	13.127	Pass
		2437	0	12.944	Pass
		2462	0	12.592	Pass
802.11g	SISO	2412	0	17.032	Pass
		2437	0	17.031	Pass
		2462	0	16.606	Pass
802.11n (HT20)	MIMO	2412	0	18.630	Pass
		2437	0	18.007	Pass
		2462	0	17.753	Pass
802.11n (HT40)	MIMO	2422	0	36.450	Pass
		2437	0	36.918	Pass
		2452	0	36.902	Pass

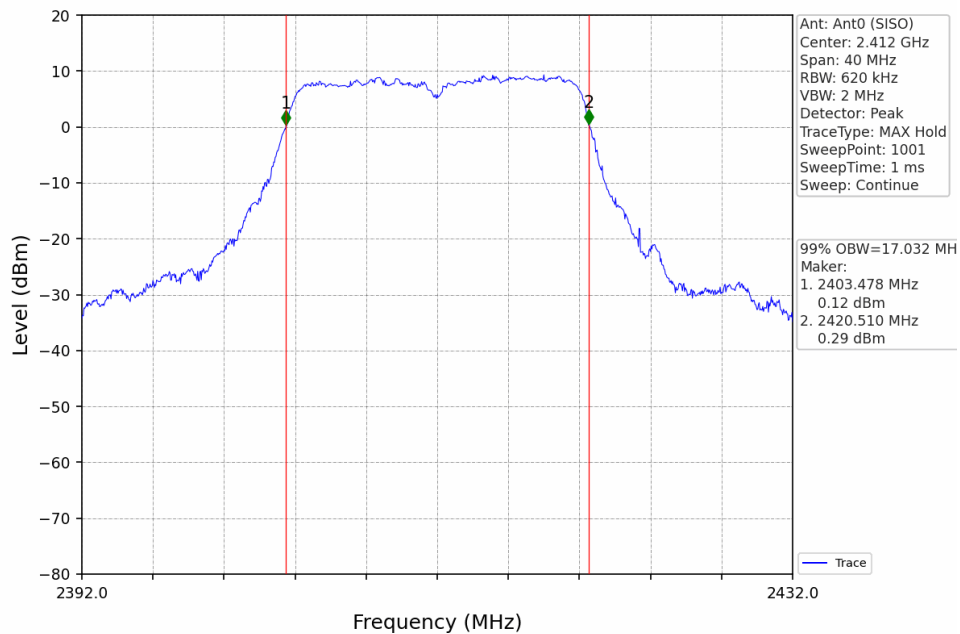
2.1.2 Test Graph



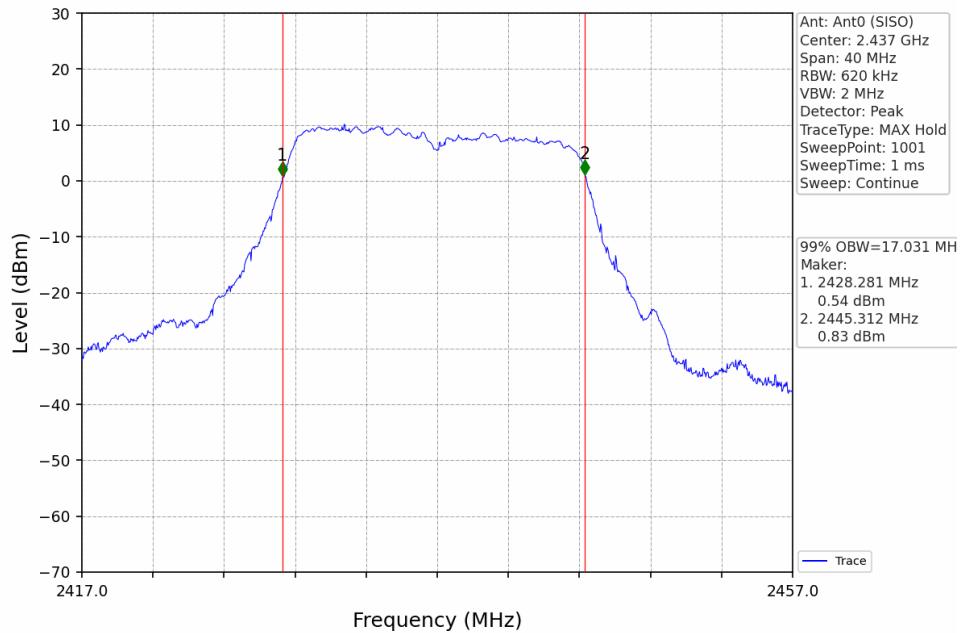
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



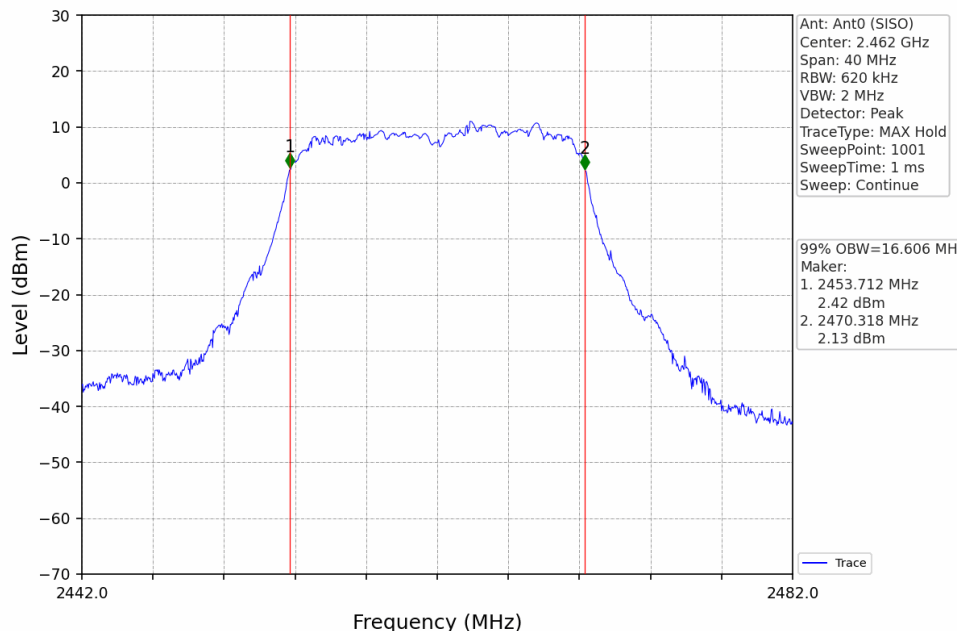
802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



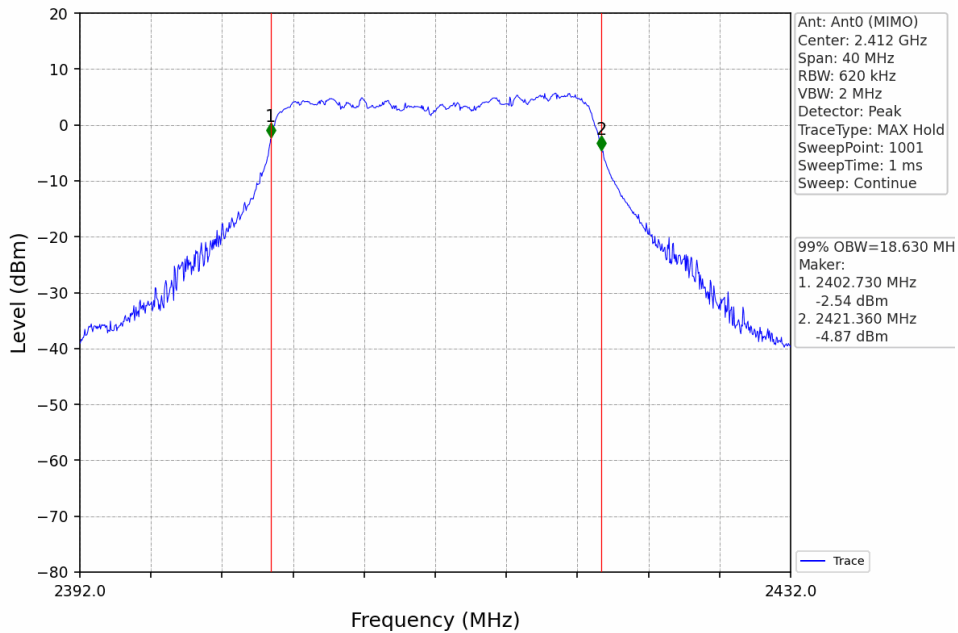
802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV



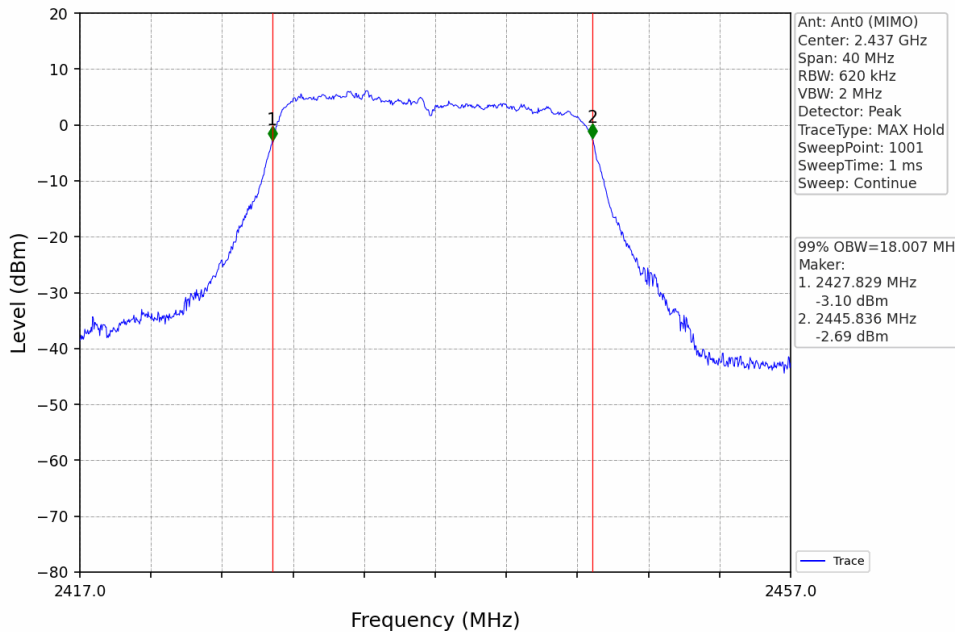
802.11g_HCH_2462MHz_Ant0 (SISO)_NTNV



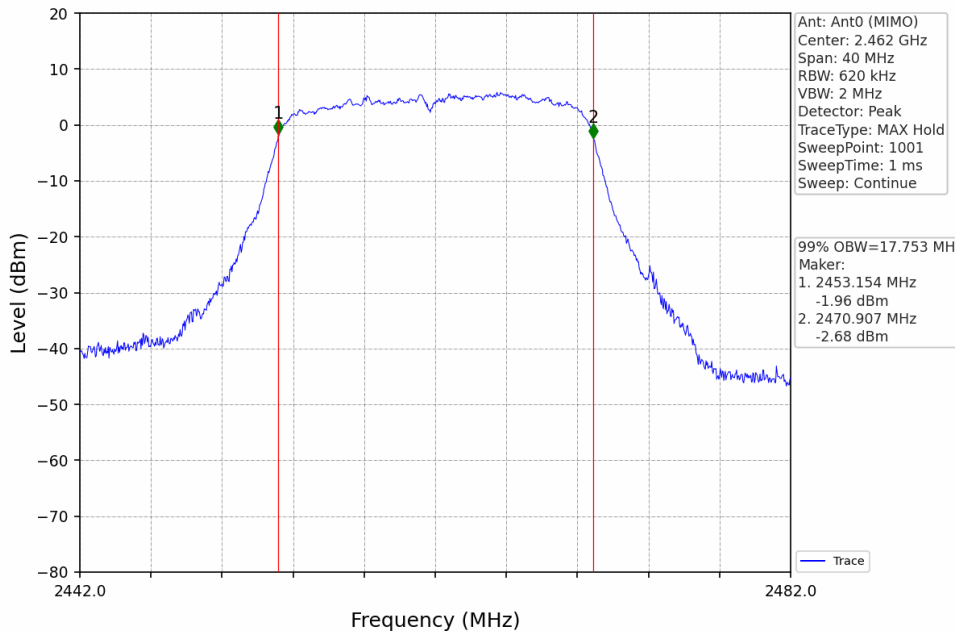
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



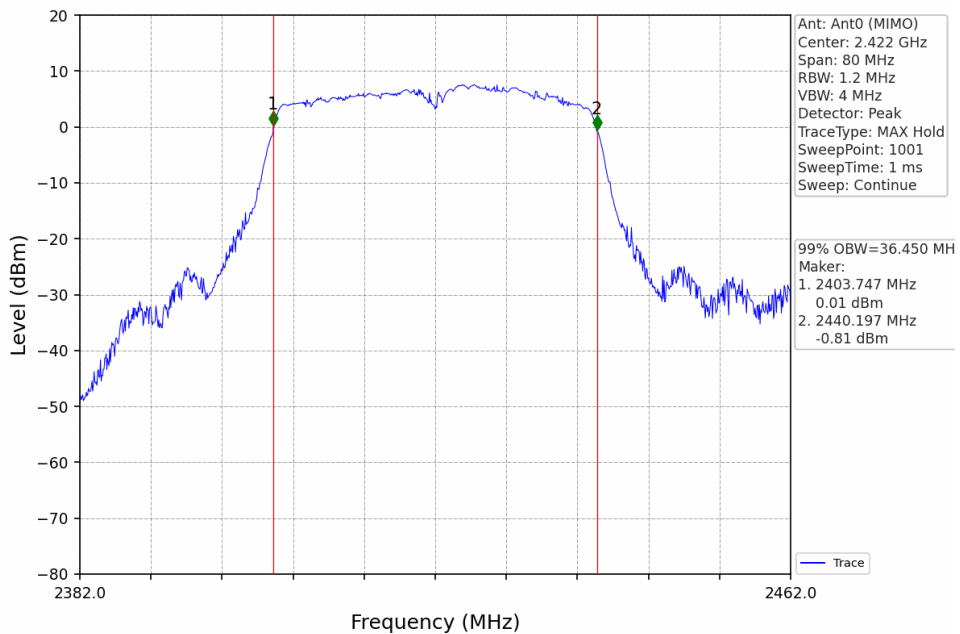
802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



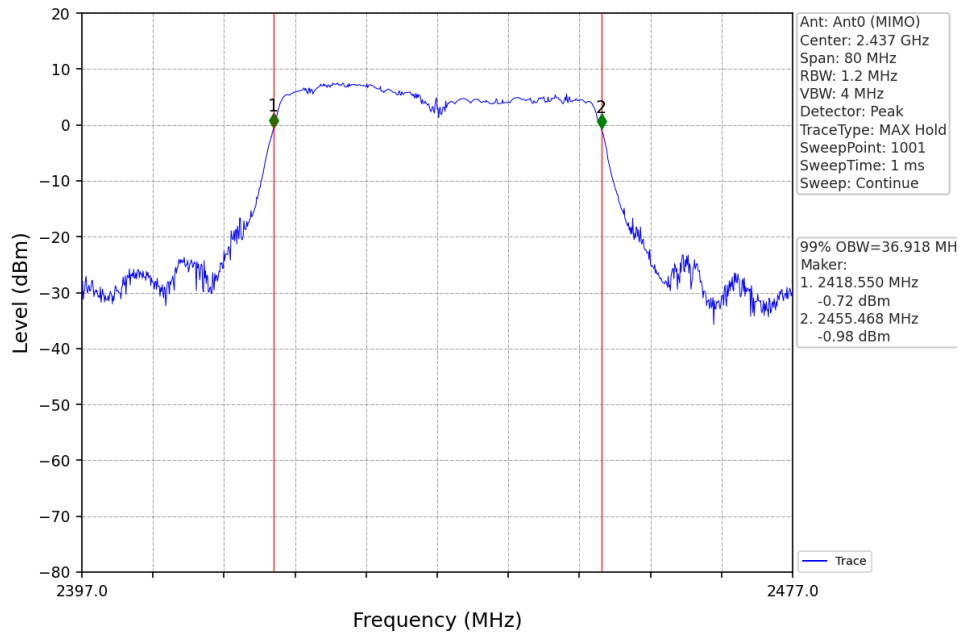
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



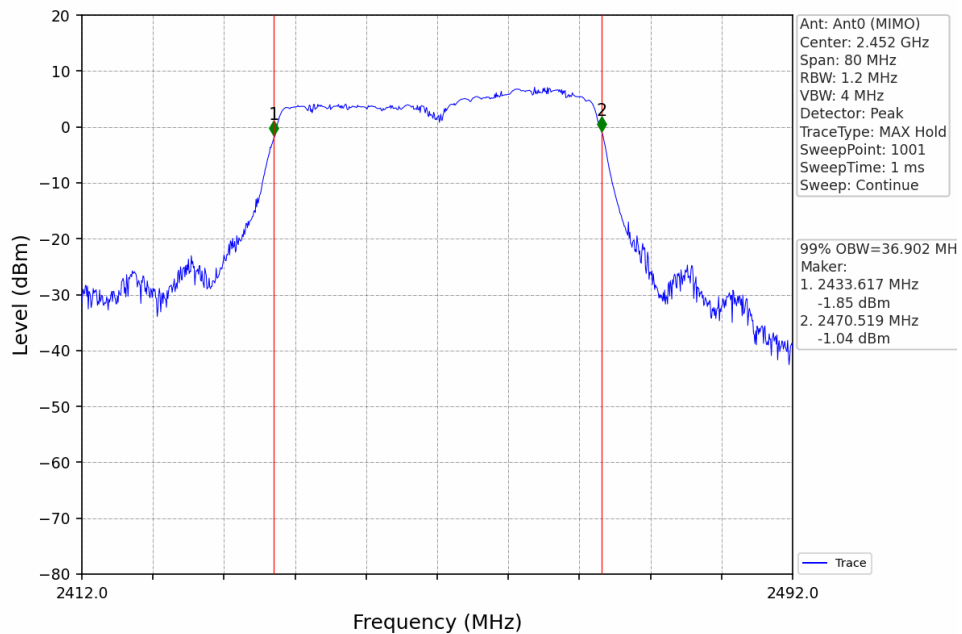
802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant0 (MIMO)_NTNV

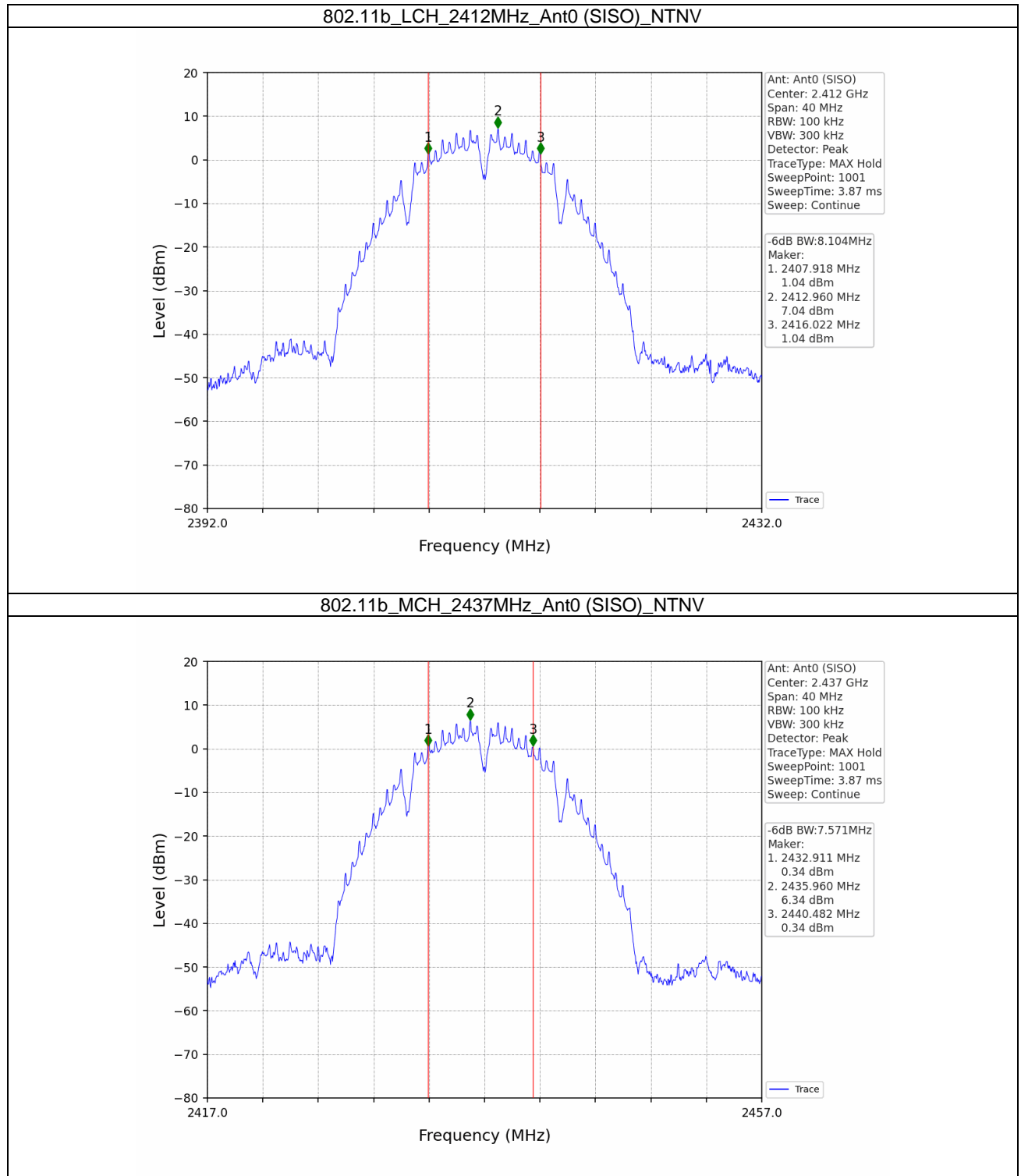


2.2 6dB BW

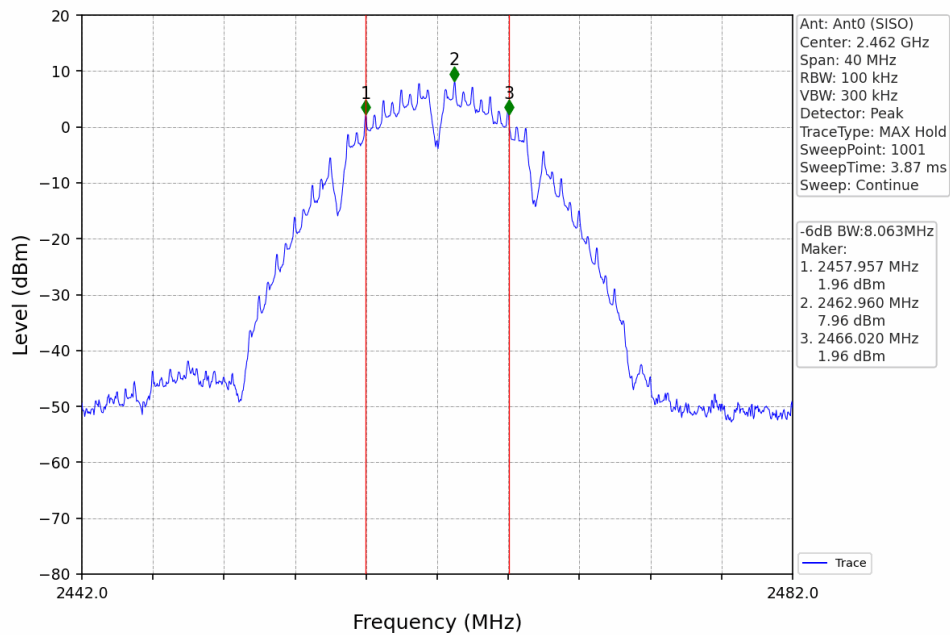
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	0	8.104	≥ 0.5	Pass
		2437	0	7.571	≥ 0.5	Pass
		2462	0	8.063	≥ 0.5	Pass
802.11g	SISO	2412	0	16.328	≥ 0.5	Pass
		2437	0	15.763	≥ 0.5	Pass
		2462	0	15.377	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	0	17.732	≥ 0.5	Pass
		2437	0	16.357	≥ 0.5	Pass
		2462	0	15.978	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	0	35.169	≥ 0.5	Pass
		2437	0	35.195	≥ 0.5	Pass
		2452	0	35.319	≥ 0.5	Pass

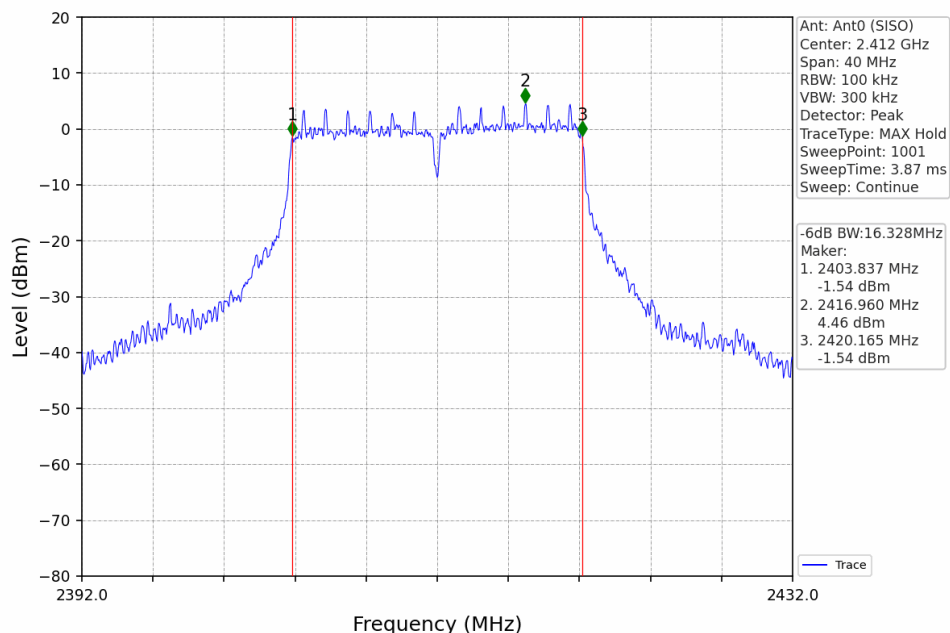
2.2.2 Test Graph



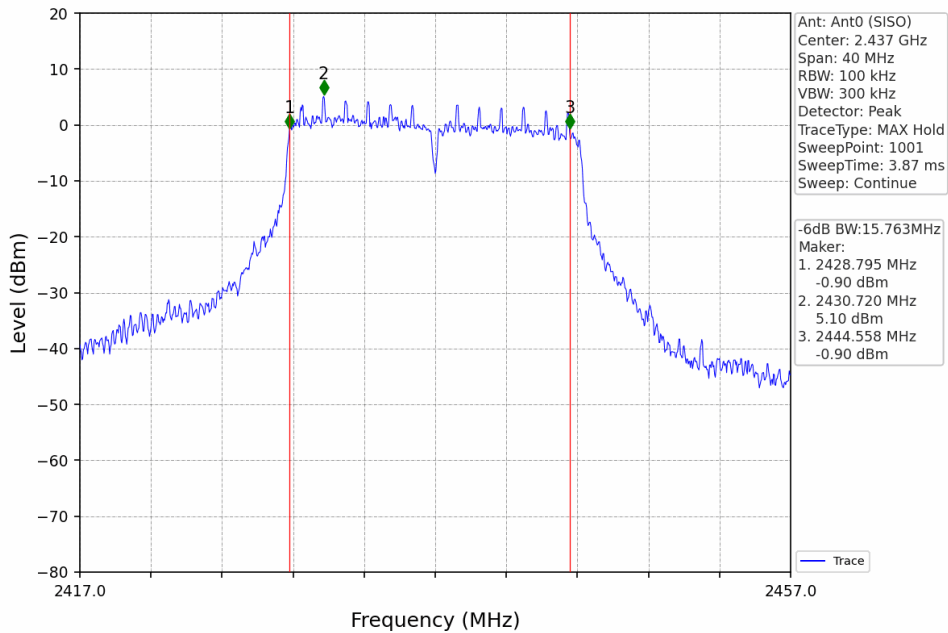
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



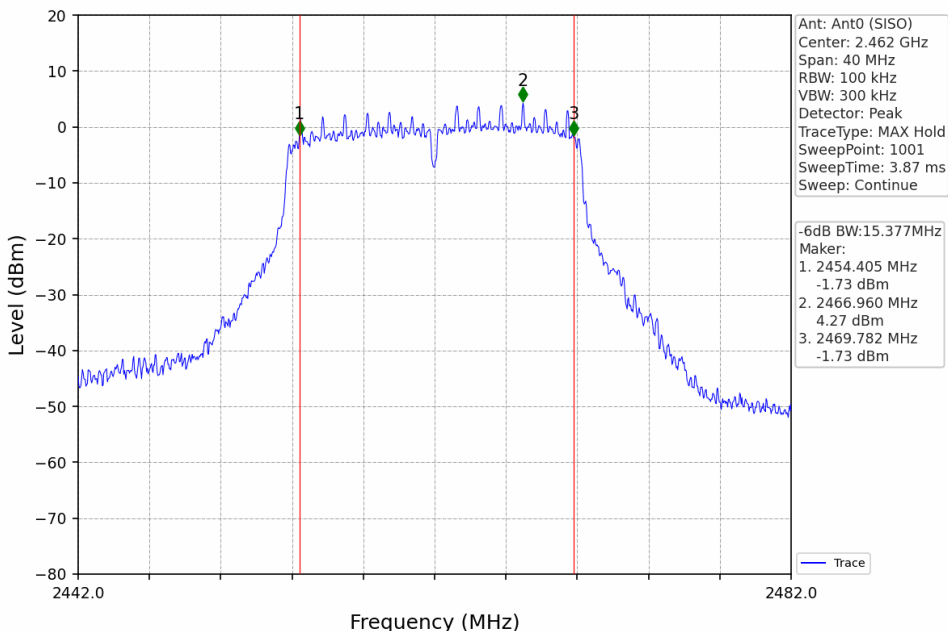
802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



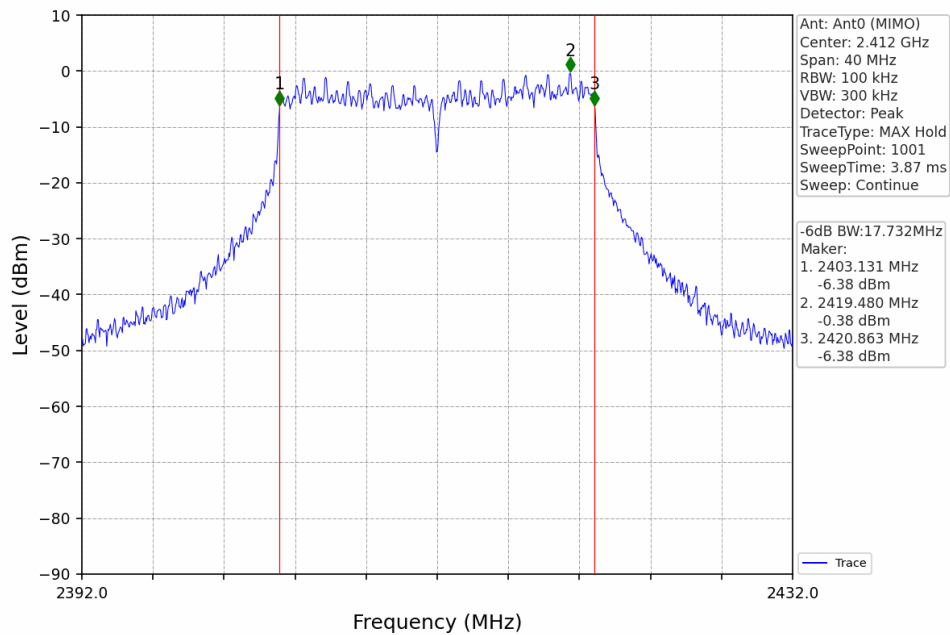
802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV



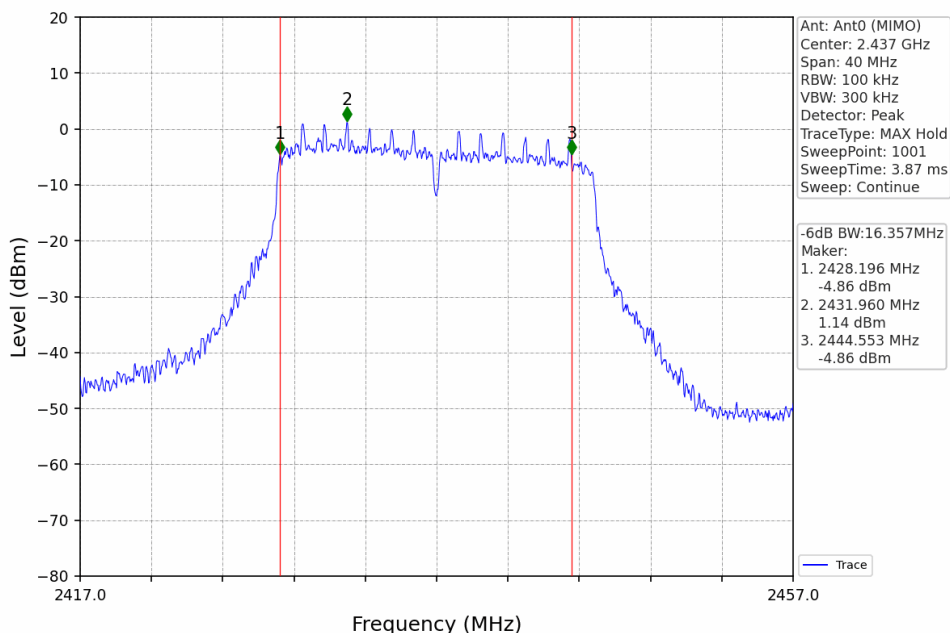
802.11g_HCH_2462MHz_Ant0 (SISO)_NTNV



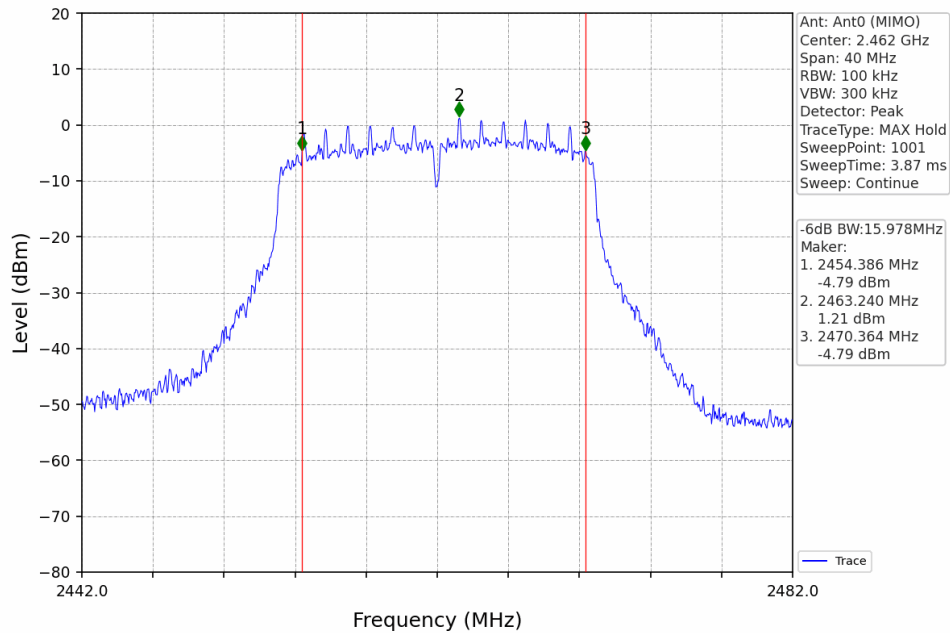
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



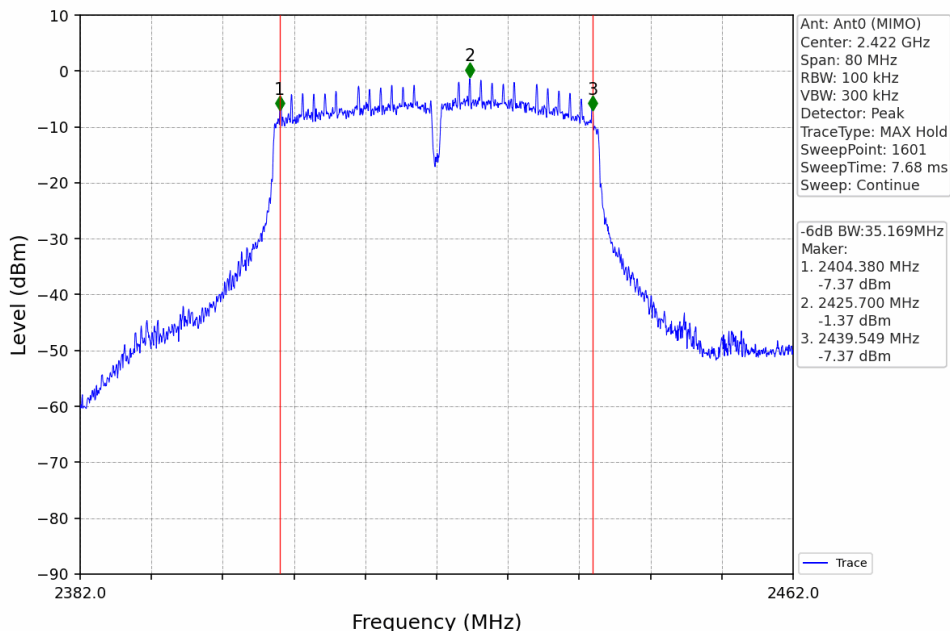
802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



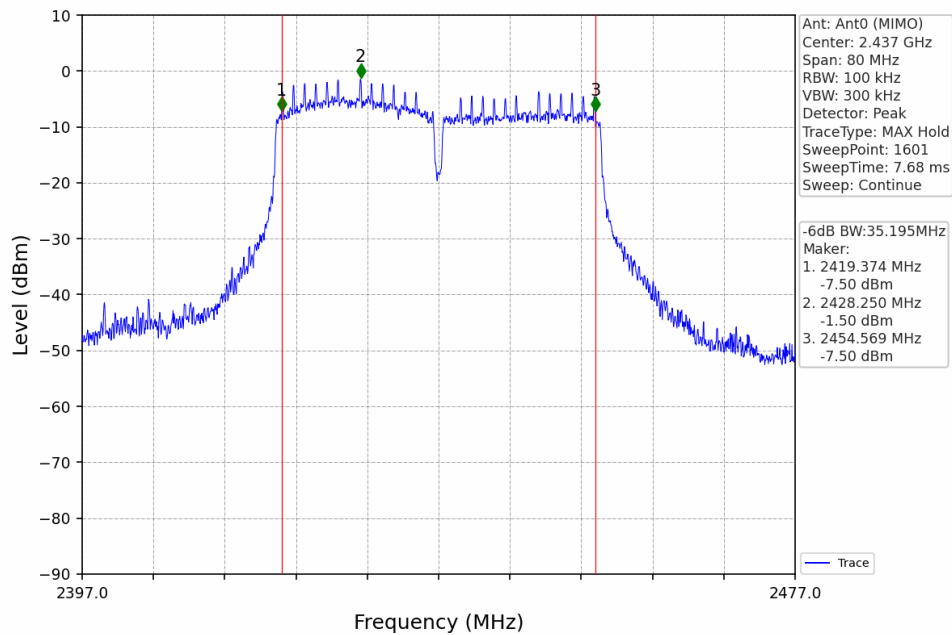
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



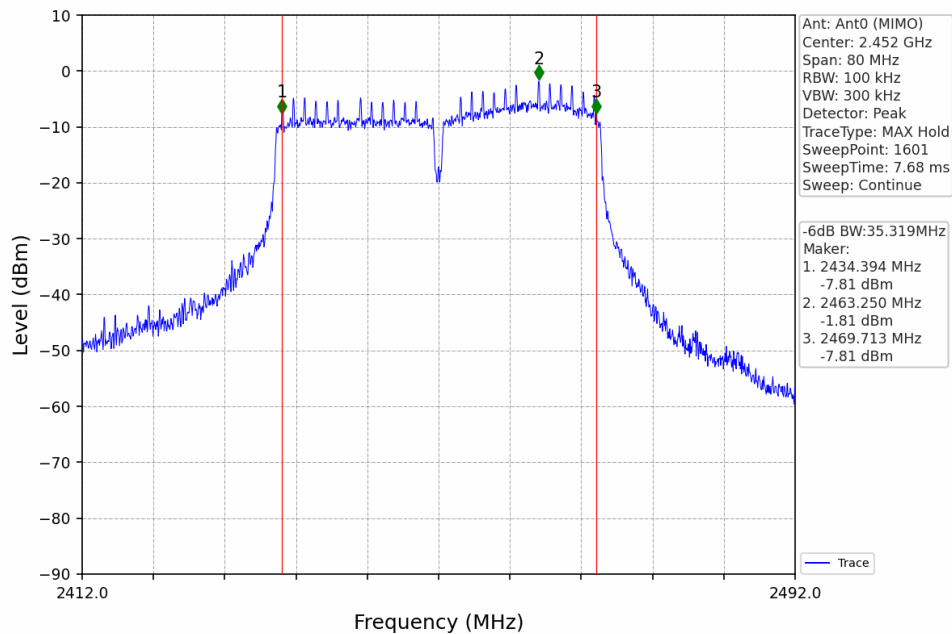
802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant0 (MIMO)_NTNV



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
			ANT0	ANT1	MIMO	Limit	
802.11b	SISO	2412	15.56	15.47	/	<=30	Pass
		2437	15.48	15.39	/	<=30	Pass
		2462	15.99	16.03	/	<=30	Pass
802.11g	SISO	2412	15.23	15.43	/	<=30	Pass
		2437	15.36	15.21	/	<=30	Pass
		2462	15.38	15.40	/	<=30	Pass
802.11n (HT20)	MIMO	2412	12.09	12.16	15.14	<=30	Pass
		2437	11.90	11.79	14.86	<=30	Pass
		2462	12.30	12.17	15.25	<=30	Pass
802.11n (HT40)	MIMO	2422	12.42	12.17	15.31	<=30	Pass
		2437	12.10	12.02	15.07	<=30	Pass
		2452	11.42	11.64	14.54	<=30	Pass

Note1: Antenna Gain: Antenna0&1: 2.5dBi
Note2: Directional Gain= $G_{Ant}+10\log(N_{Ant})$ dBi = $2.5+10\log(2)$ dBi = 5.51dBi.

4. Maximum Power Spectral Density

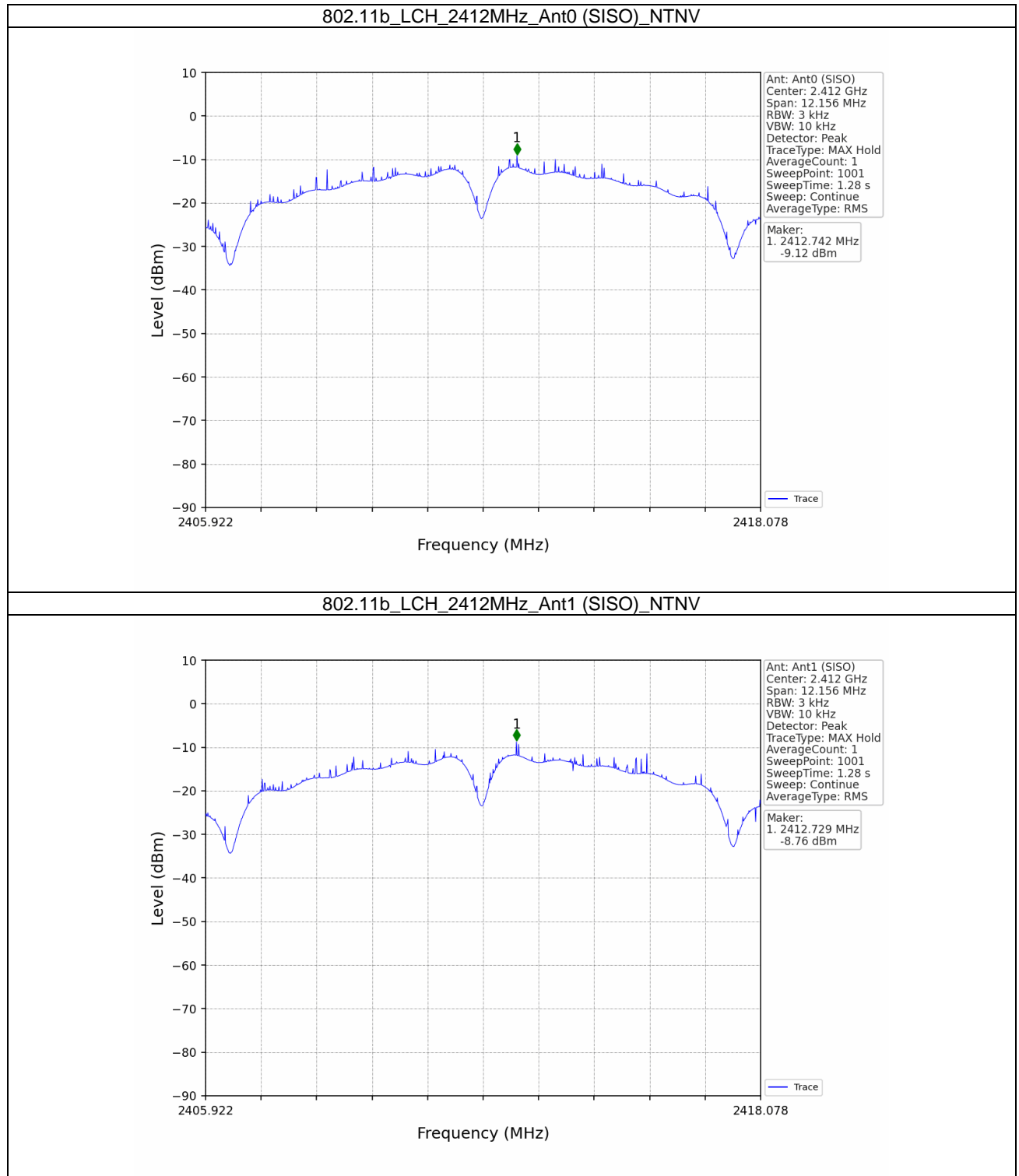
4.1 PSD

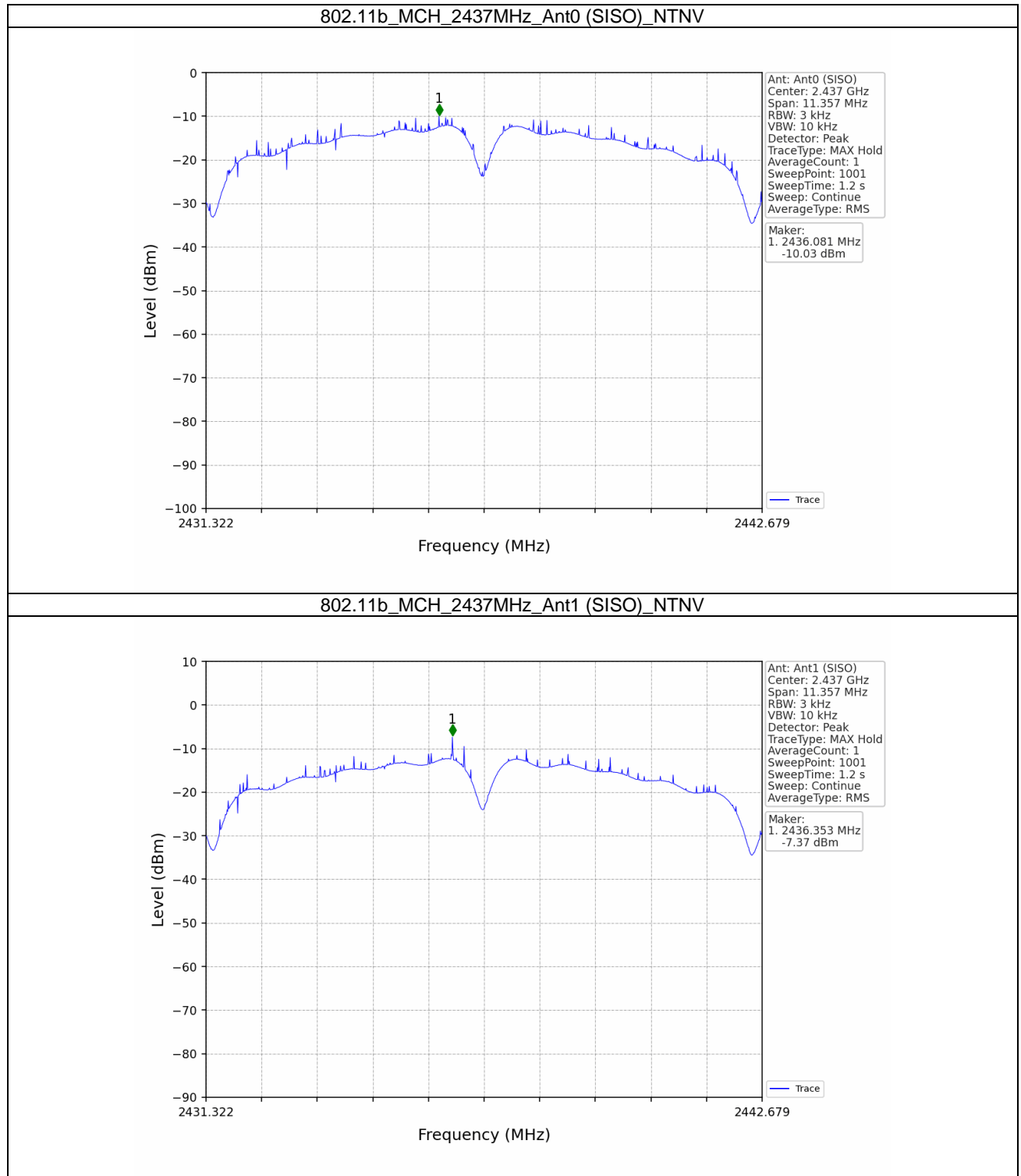
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
802.11b	SISO	2412	-9.12	-8.76	/	<=8	Pass
		2437	-10.03	-7.37	/	<=8	Pass
		2462	-9.16	-8.28	/	<=8	Pass
802.11g	SISO	2412	-11.49	-11.85	/	<=8	Pass
		2437	-11.70	-12.52	/	<=8	Pass
		2462	-11.64	-12.34	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-15.70	-14.61	-12.25	<=8	Pass
		2437	-14.34	-14.52	-12.13	<=8	Pass
		2462	-14.58	-14.16	-12.25	<=8	Pass
802.11n (HT40)	MIMO	2422	-15.80	-16.83	-13.35	<=8	Pass
		2437	-16.55	-17.04	-13.78	<=8	Pass
		2452	-16.59	-16.85	-13.71	<=8	Pass

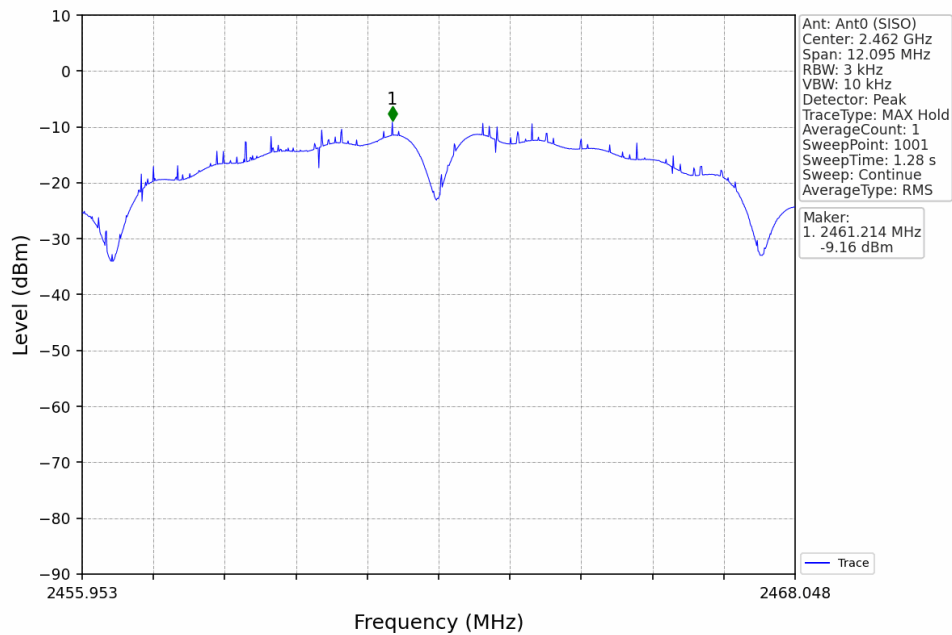
Note1: Antenna Gain: Antenna0&1: 2.5dBi
Note2: Directional Gain= $G_{Ant}+10\log(N_{Ant})$ dBi = $2.5+10\log(2)$ dBi = 5.51dBi.

4.1.2 Test Graph

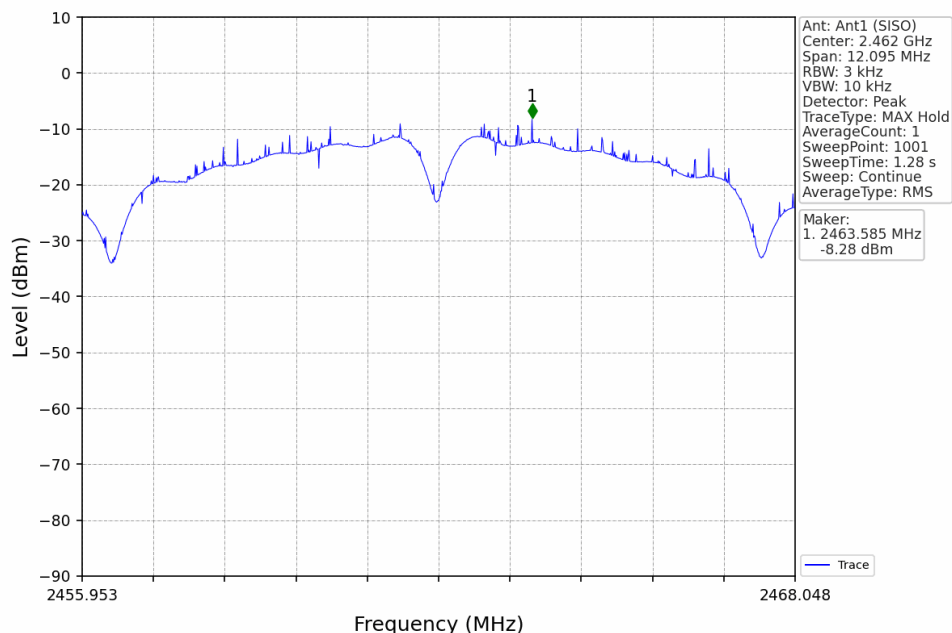


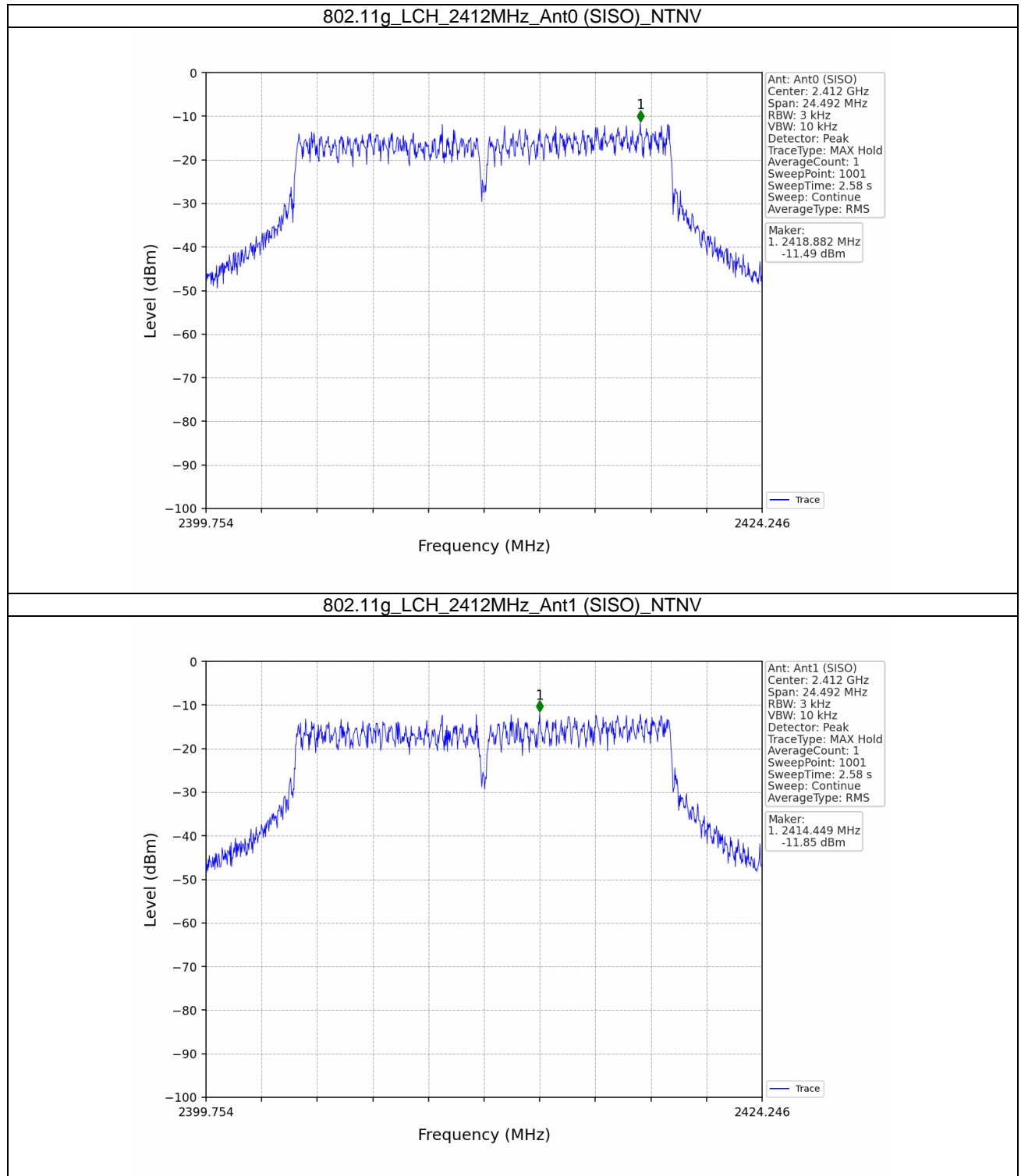


802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV

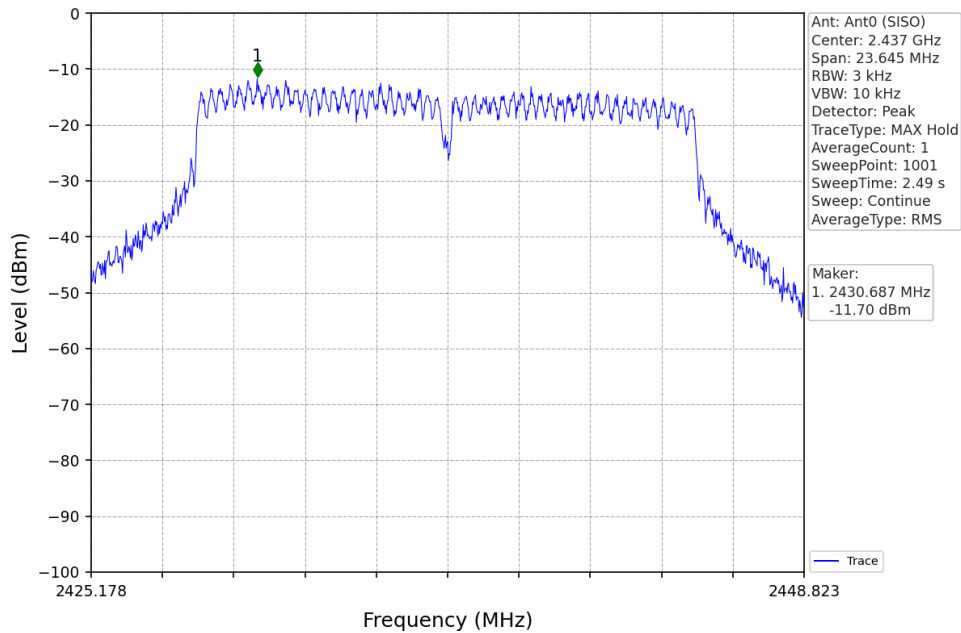


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

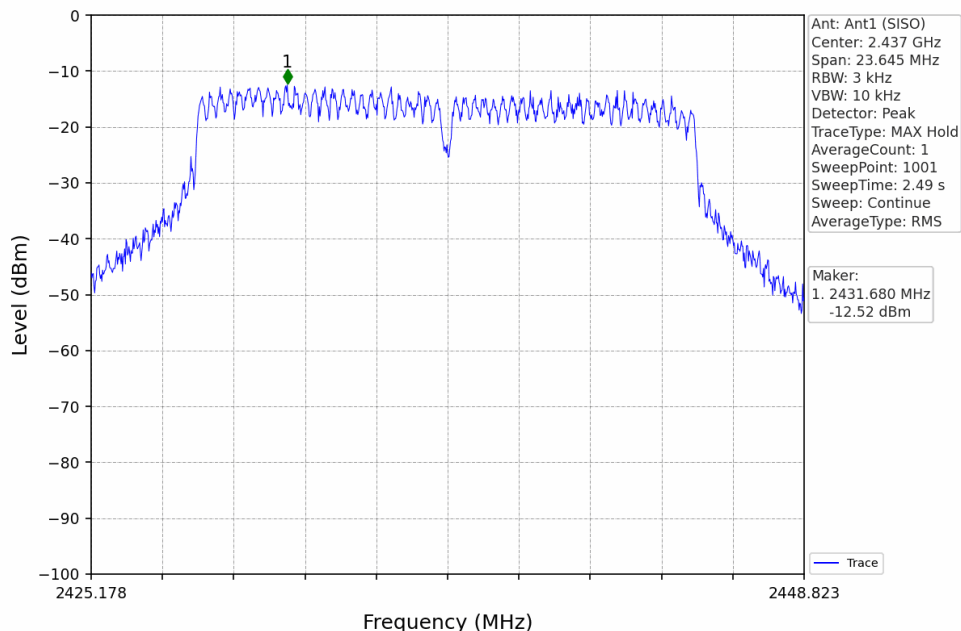


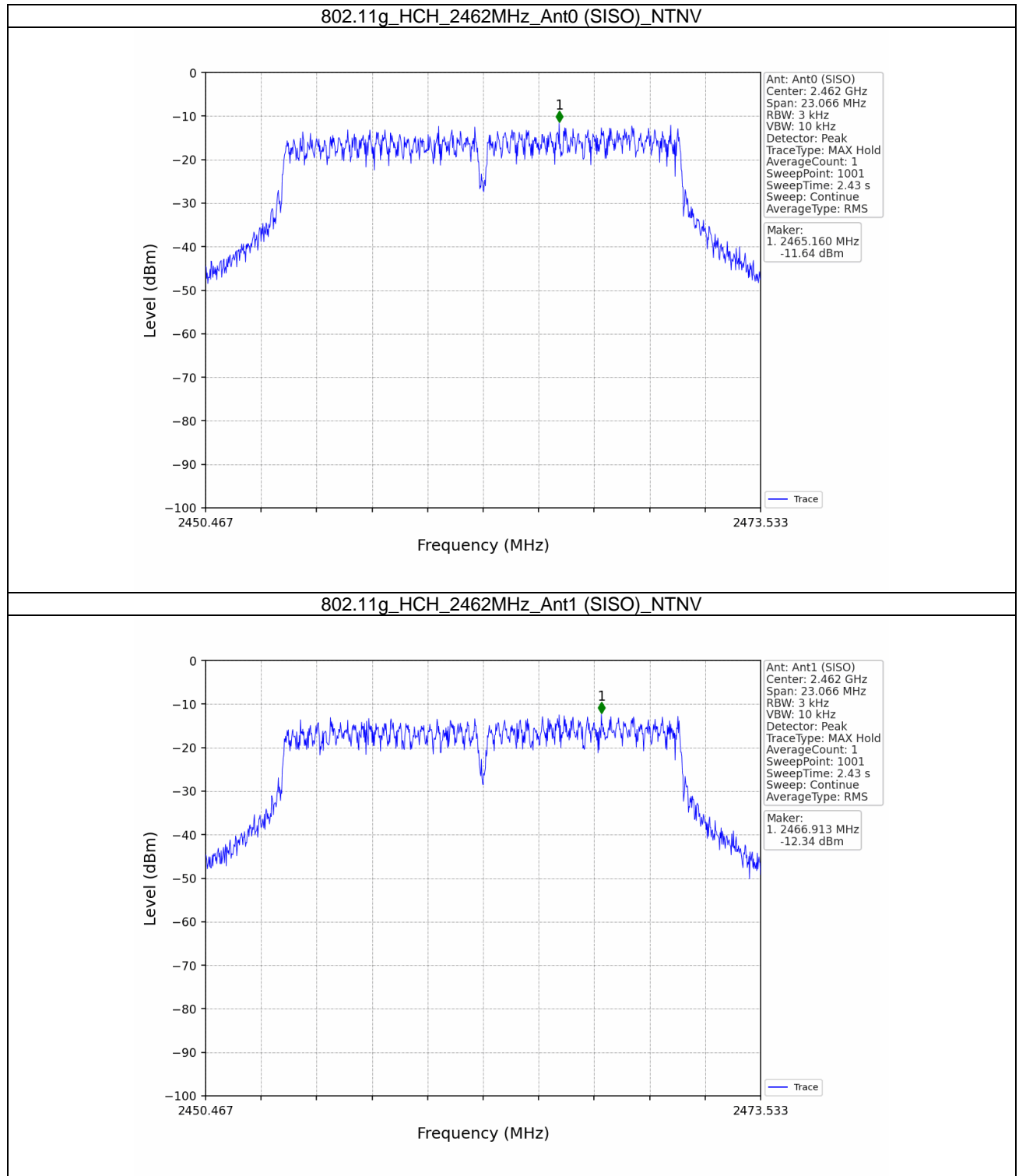


802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV

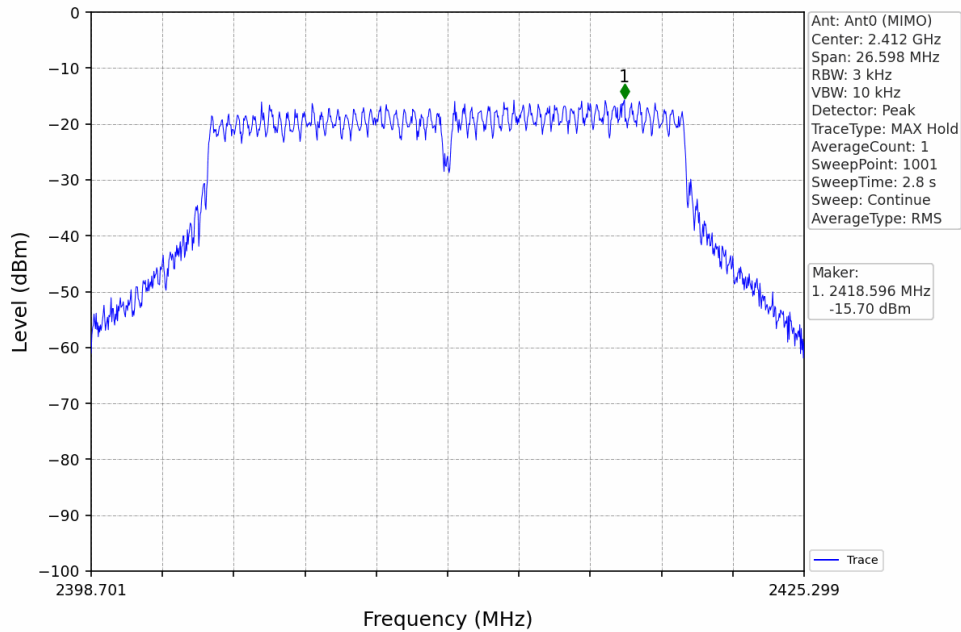


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

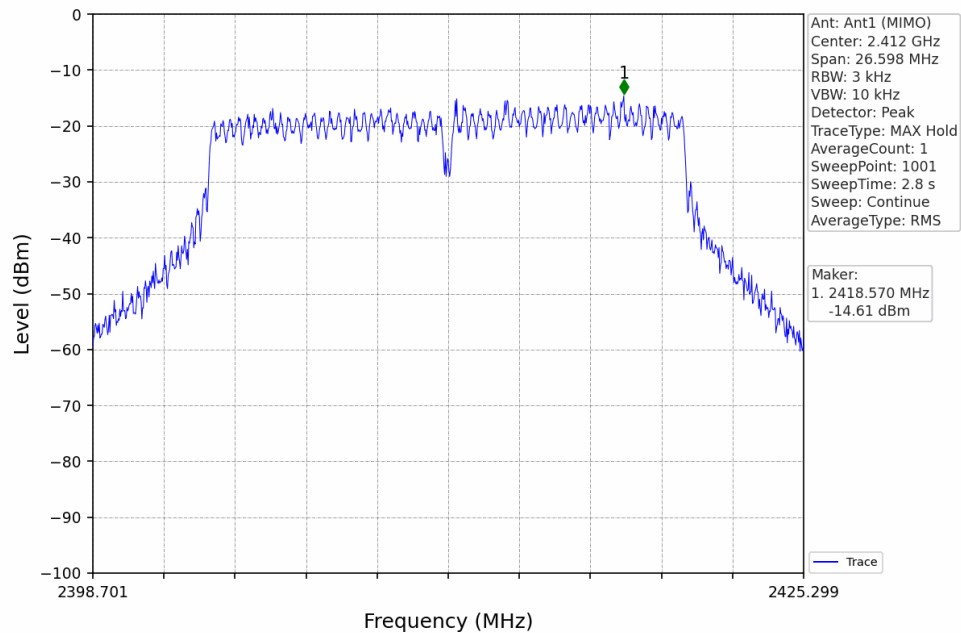




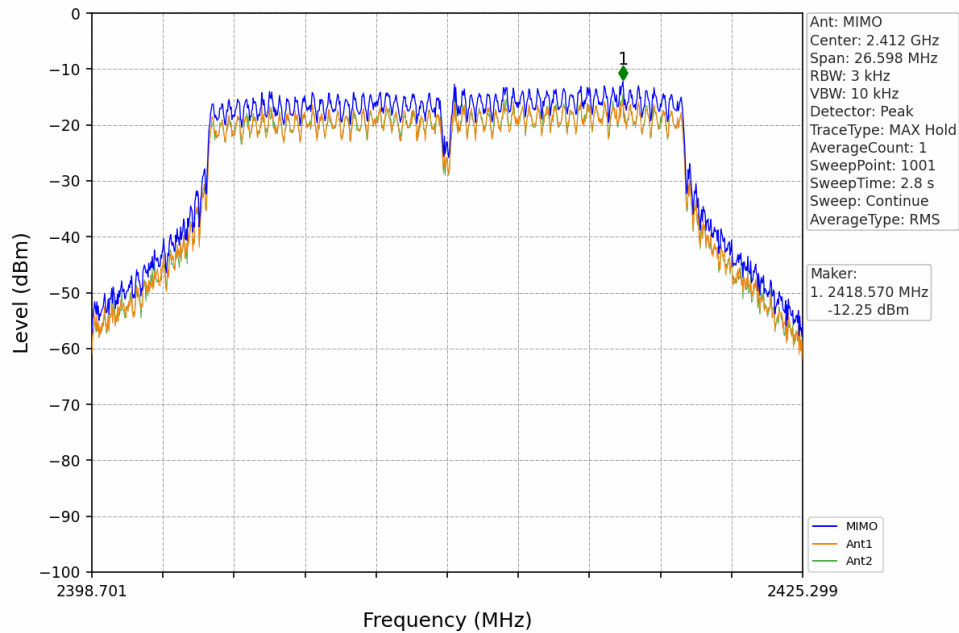
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



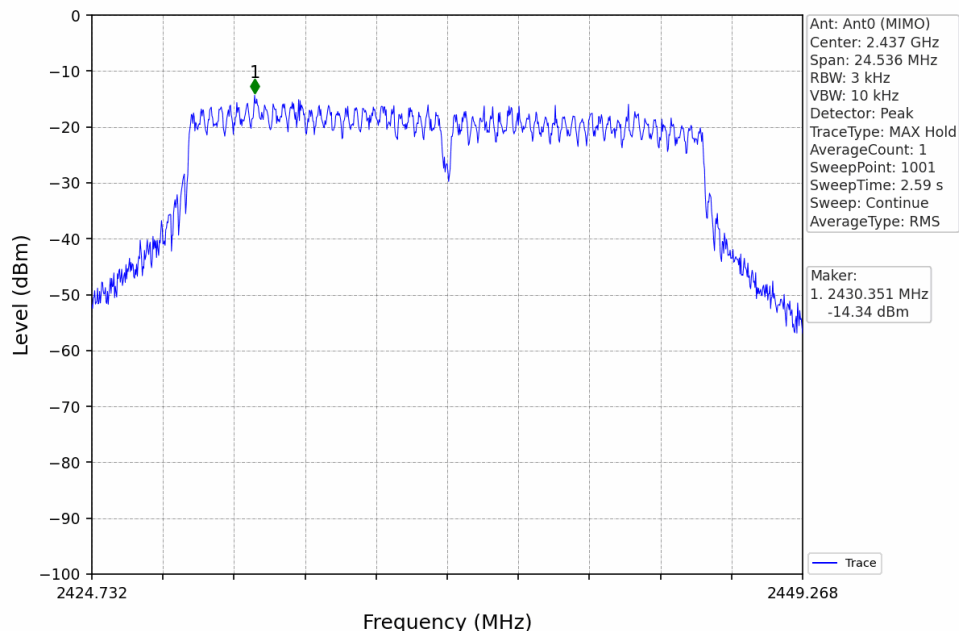
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



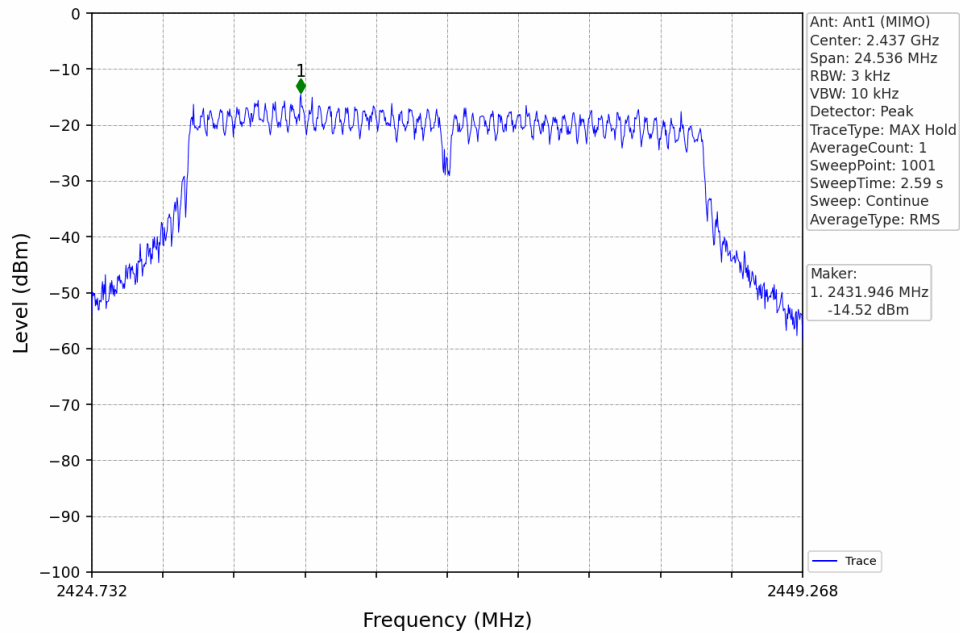
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



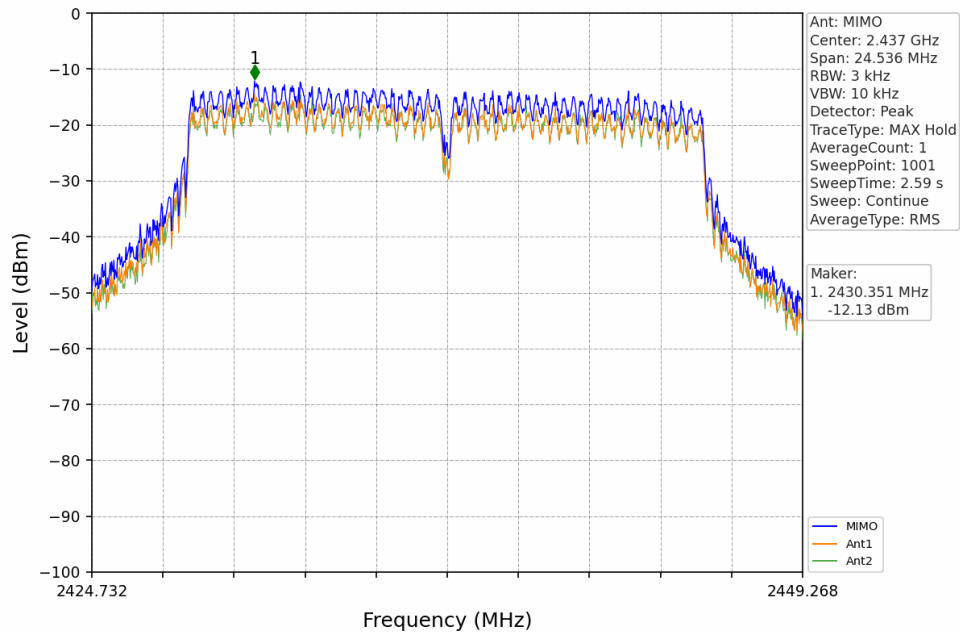
802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



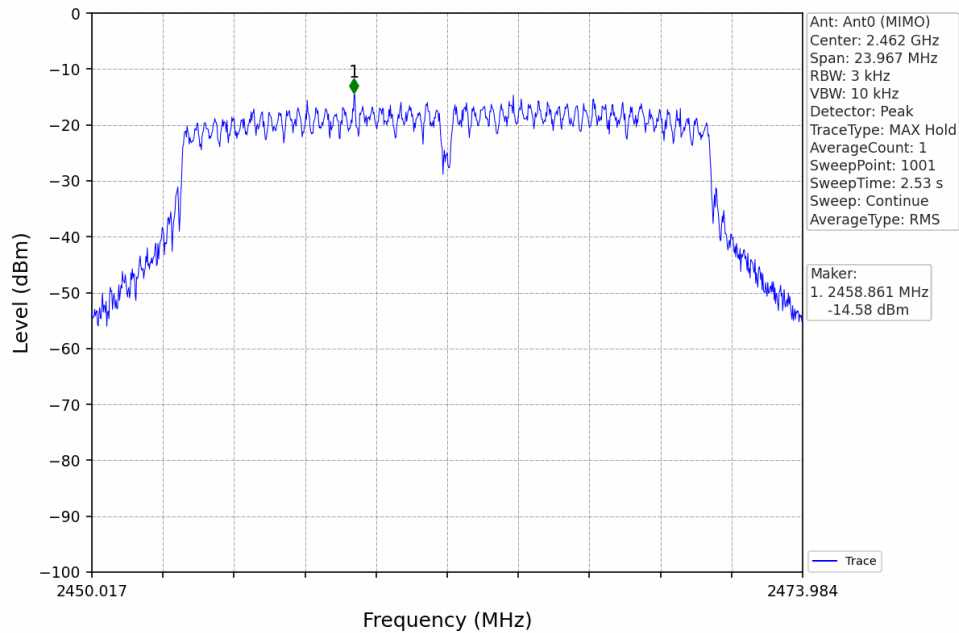
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



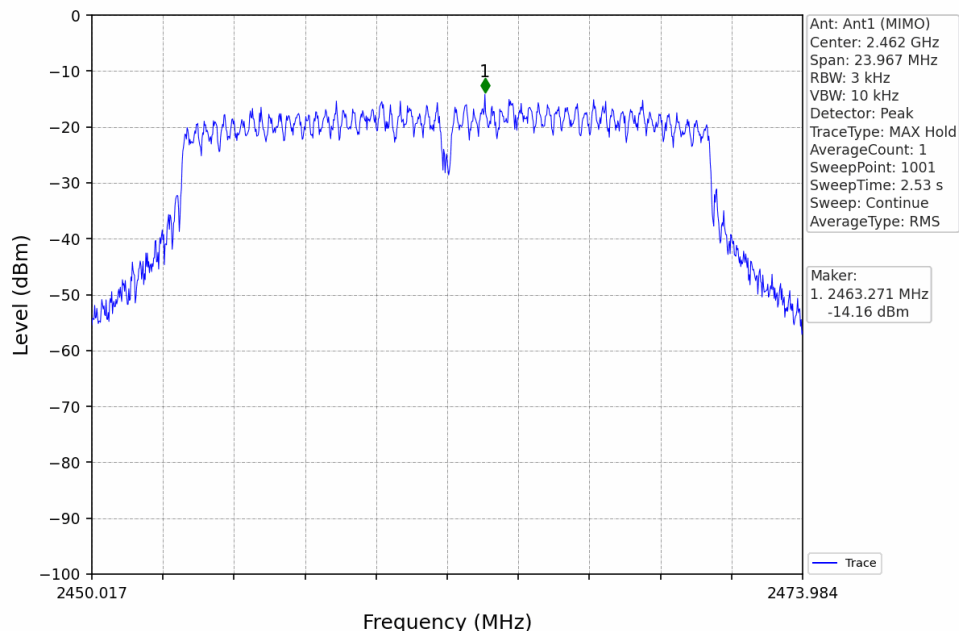
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV

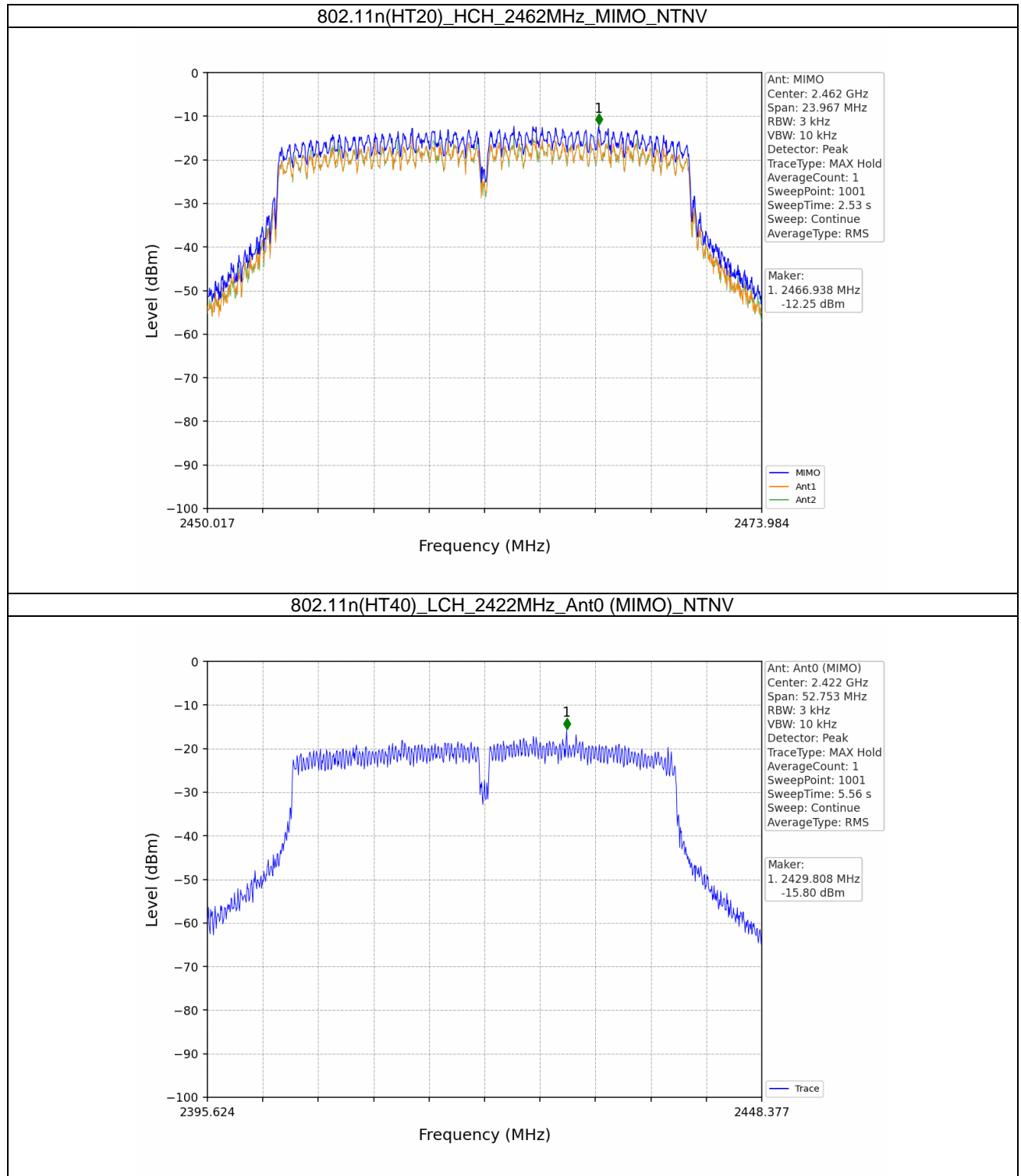


802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV

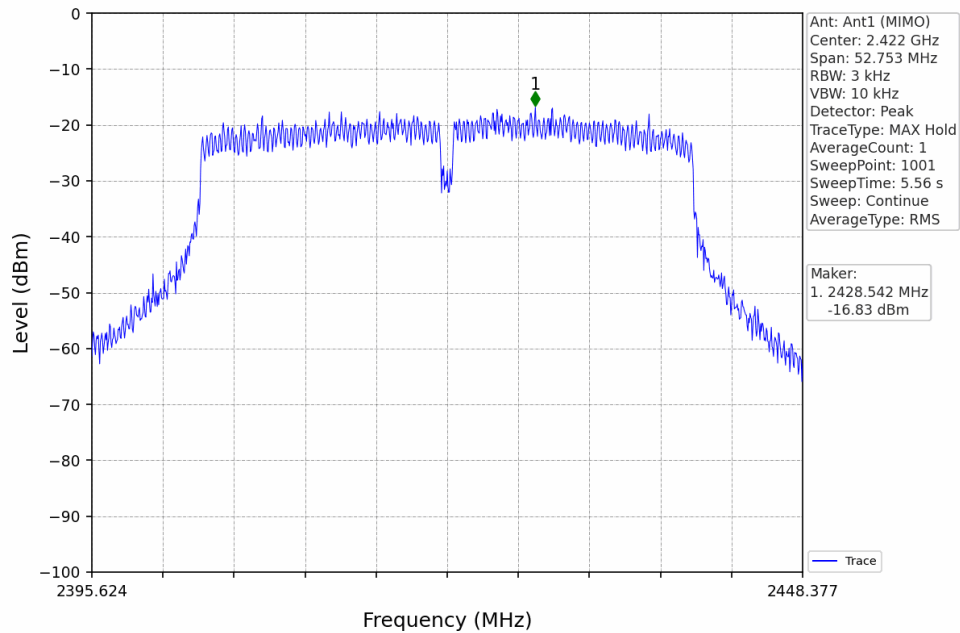


802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

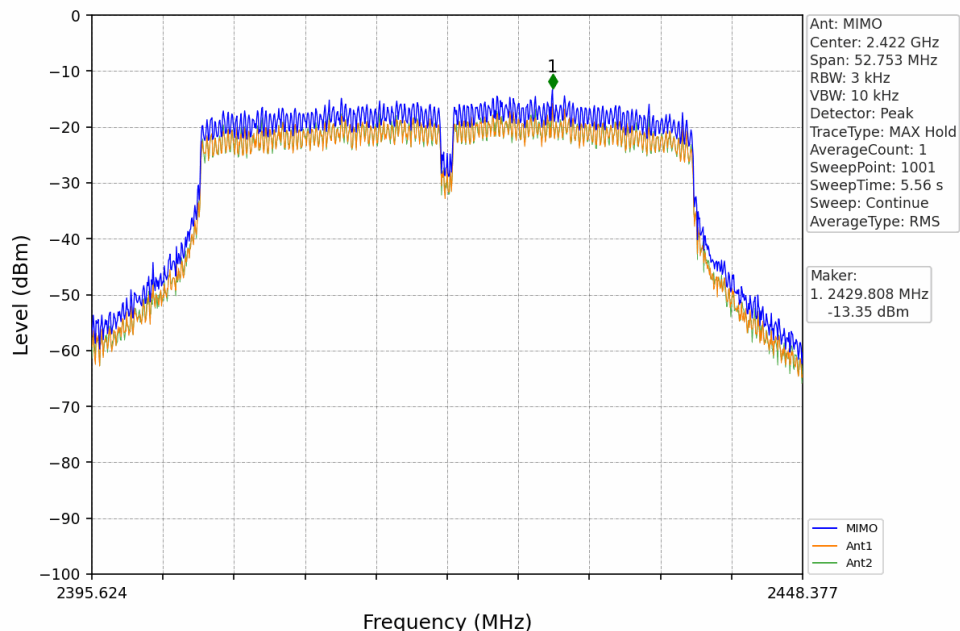




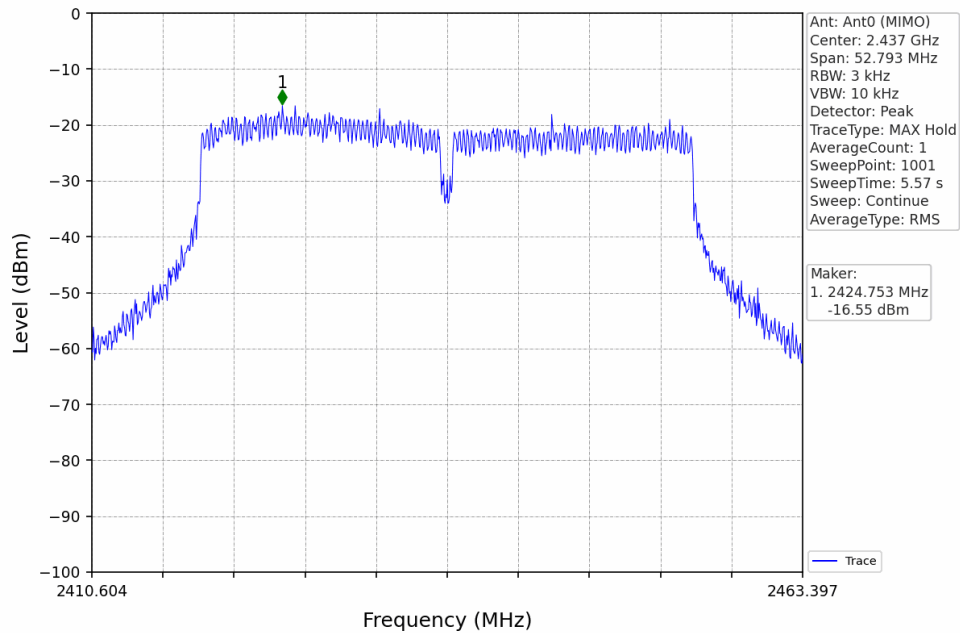
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



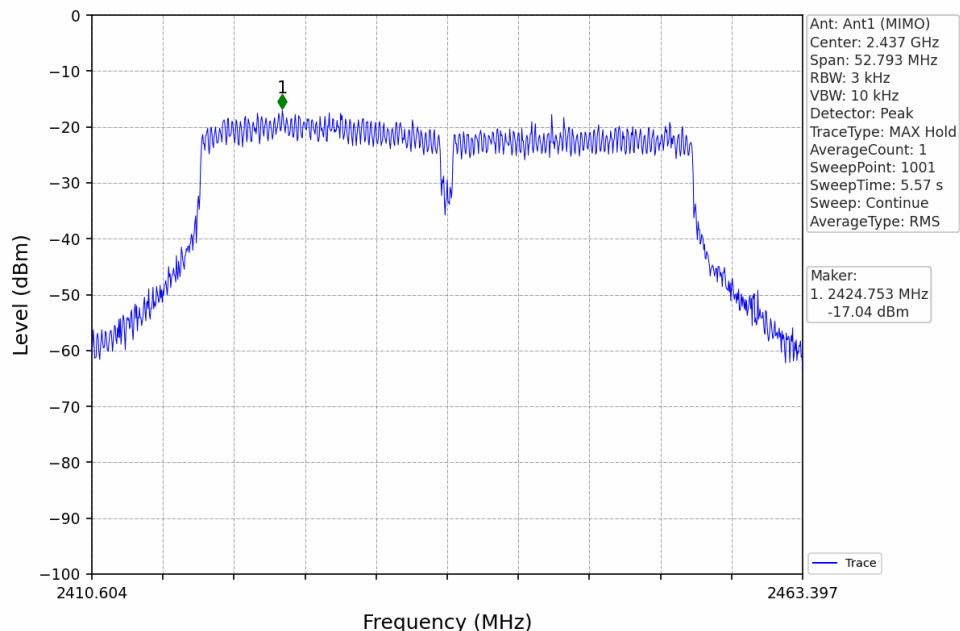
802.11n(HT40)_LCH_2422MHz_MIMO_NTNV



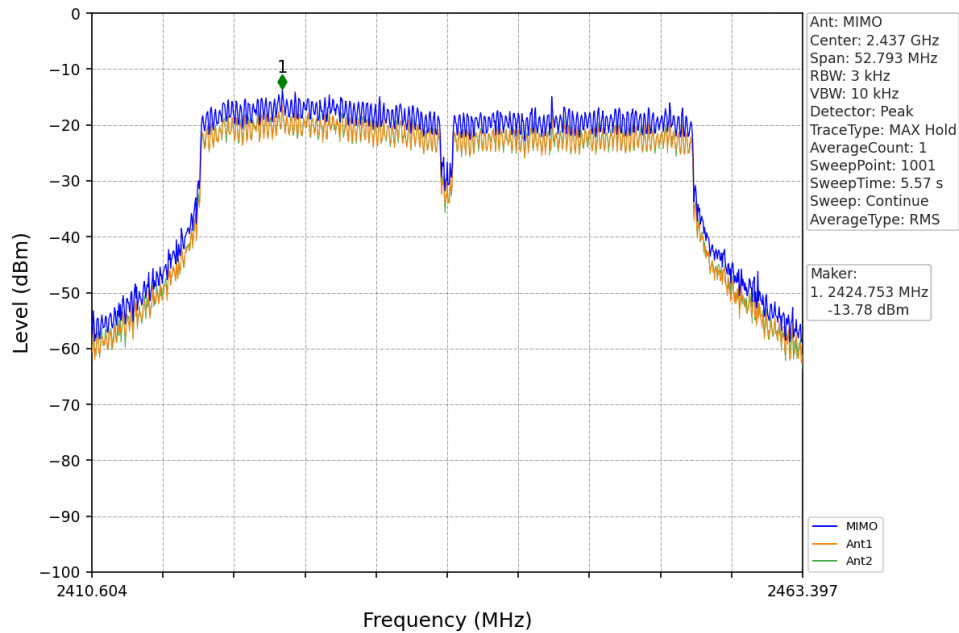
802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



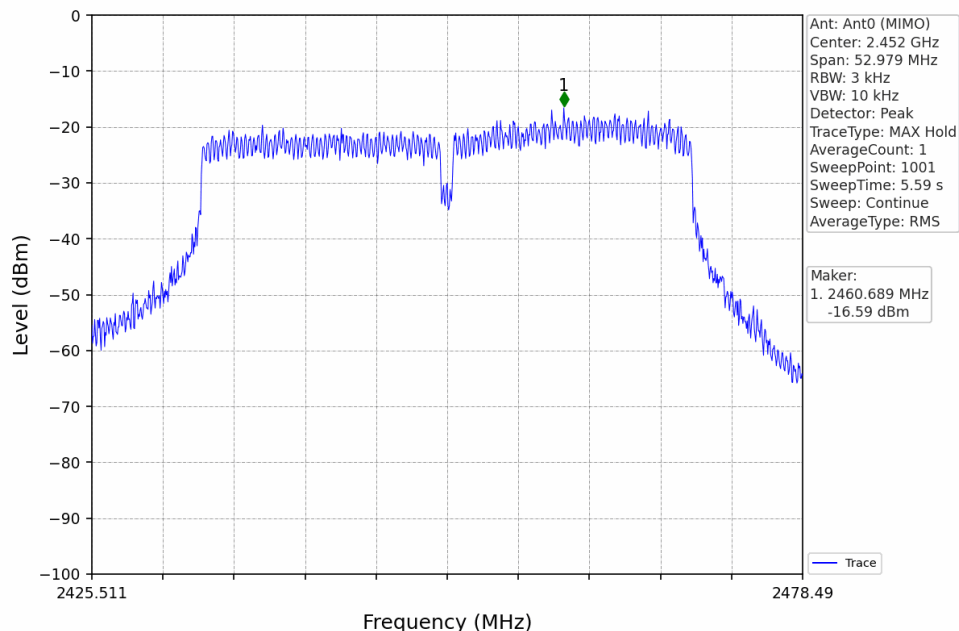
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



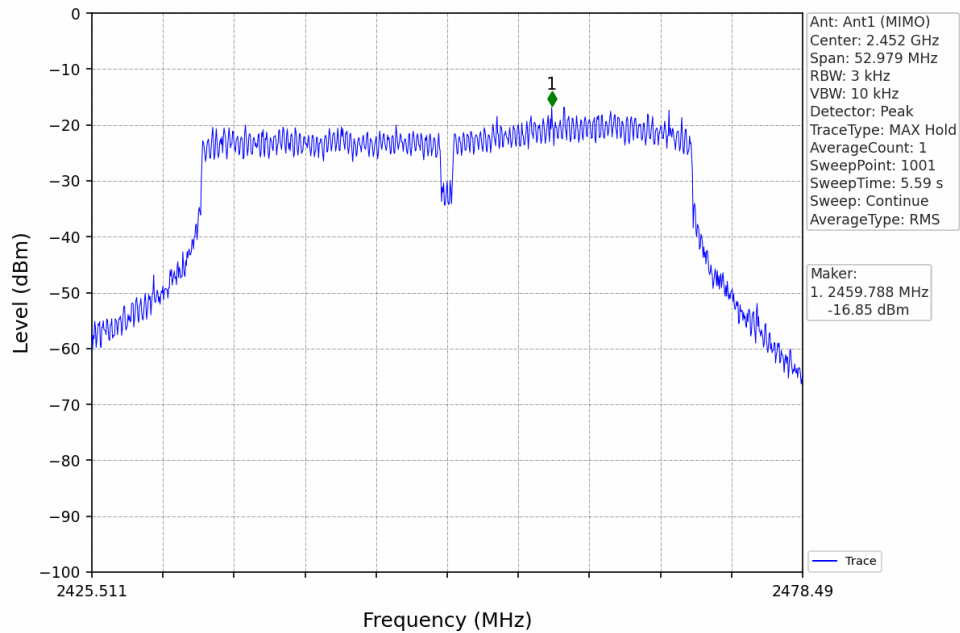
802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



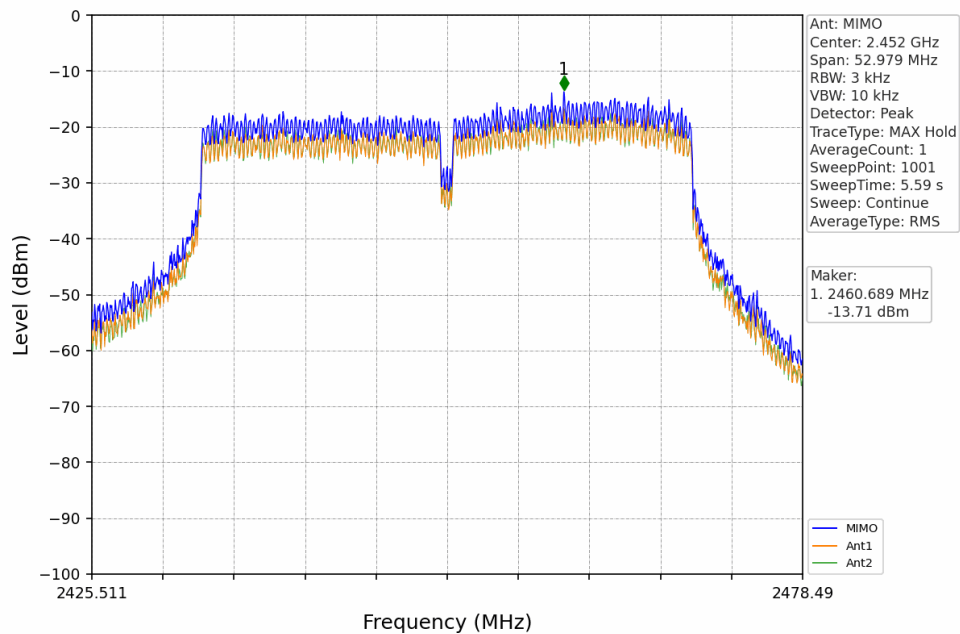
802.11n(HT40)_HCH_2452MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



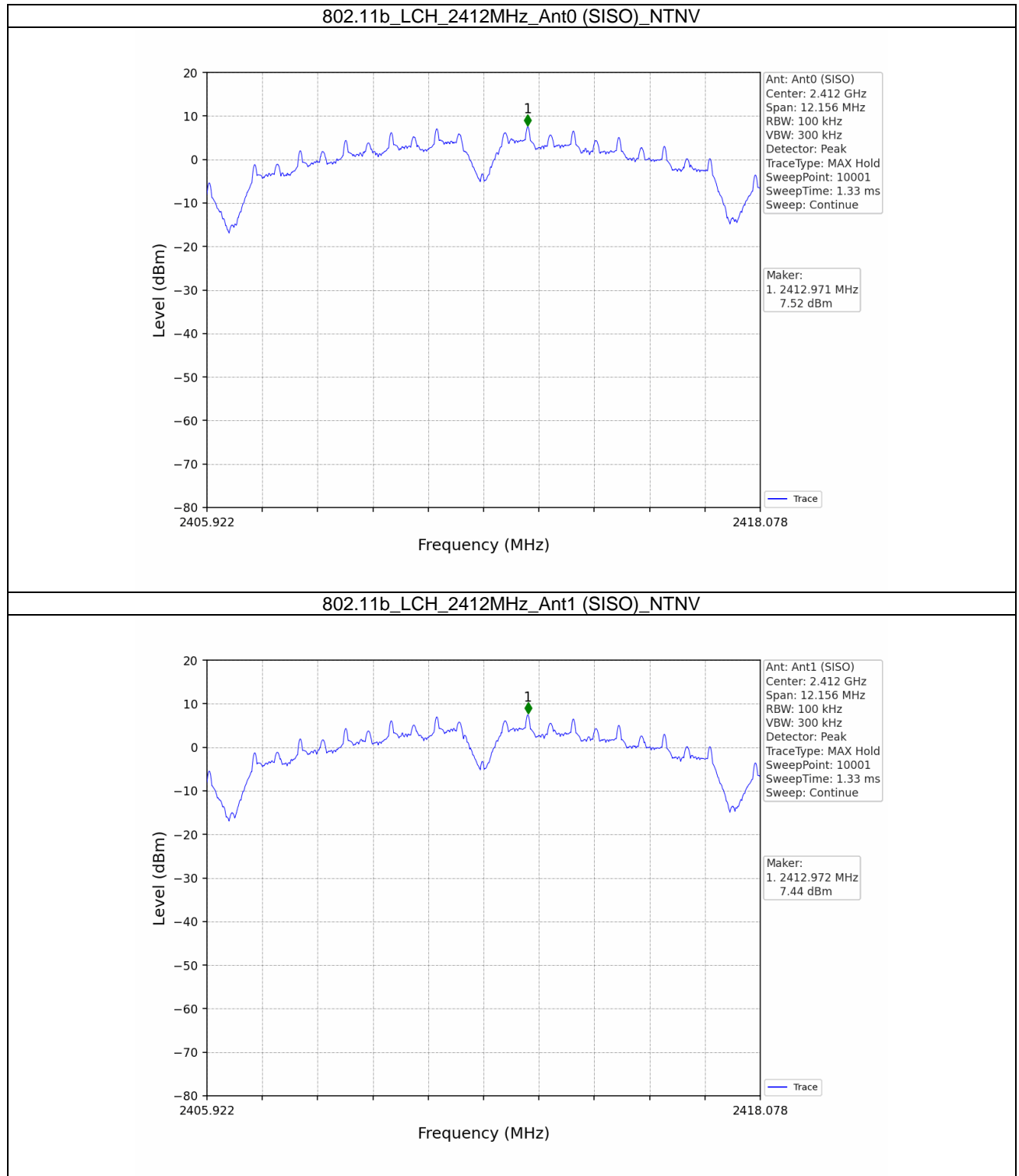
5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

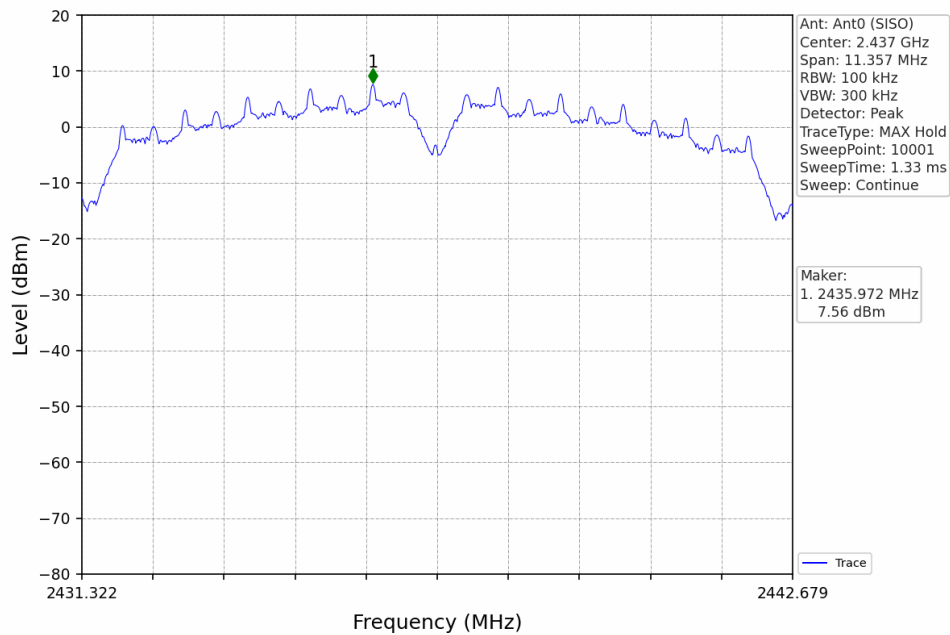
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	0	7.52
			1	7.44
		2437	0	7.56
			1	7.49
		2462	0	8.18
			1	7.94
802.11g	SISO	2412	0	4.58
			1	4.79
		2437	0	5.14
			1	4.39
		2462	0	4.18
			1	4.08
802.11n (HT20)	MIMO	2412	0	1.29
			1	1.09
		2437	0	2.10
			1	1.19
		2462	0	1.86
			1	1.69
802.11n (HT40)	MIMO	2422	0	-1.12
			1	-1.13
		2437	0	-0.79
			1	-0.55
		2452	0	-1.57
			1	-1.03

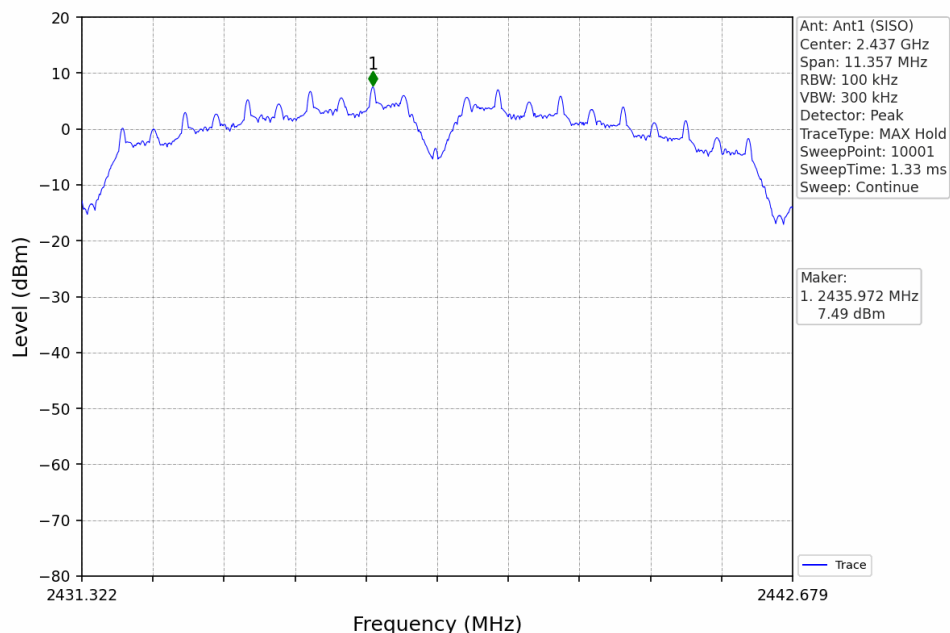
5.1.2 Test Graph



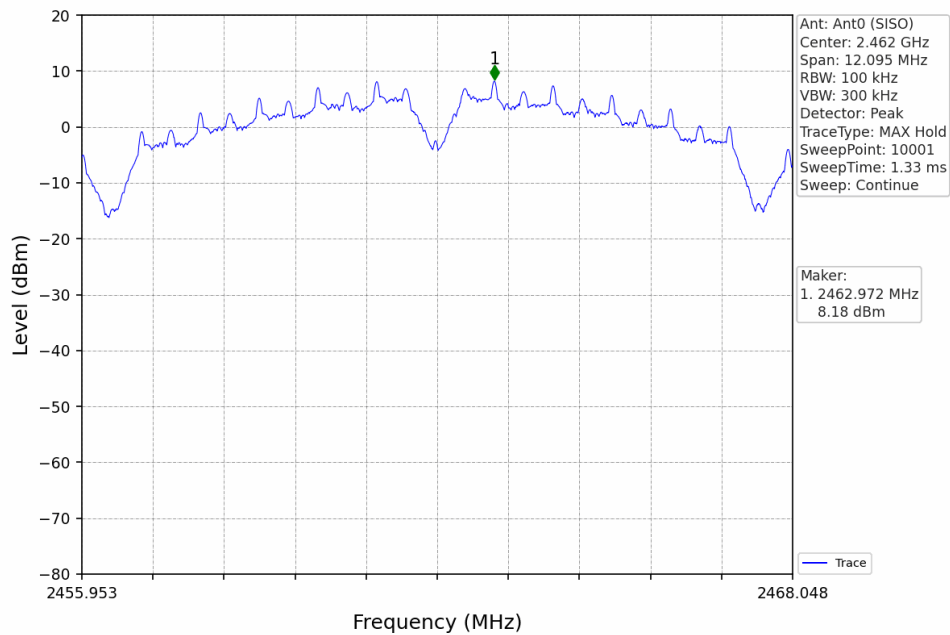
802.11b_MCH_2437MHz_Ant0 (SISO)_NTNV



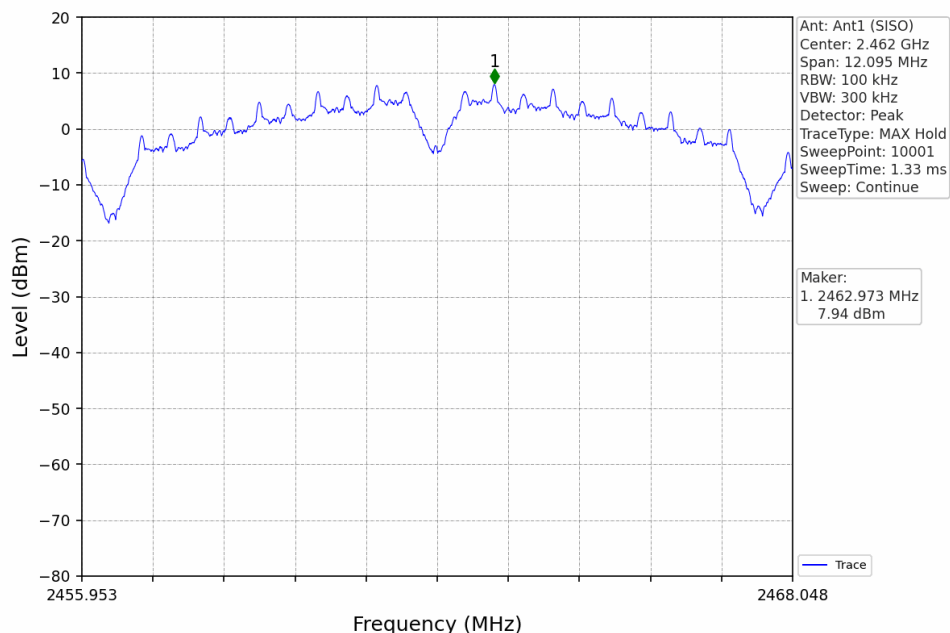
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



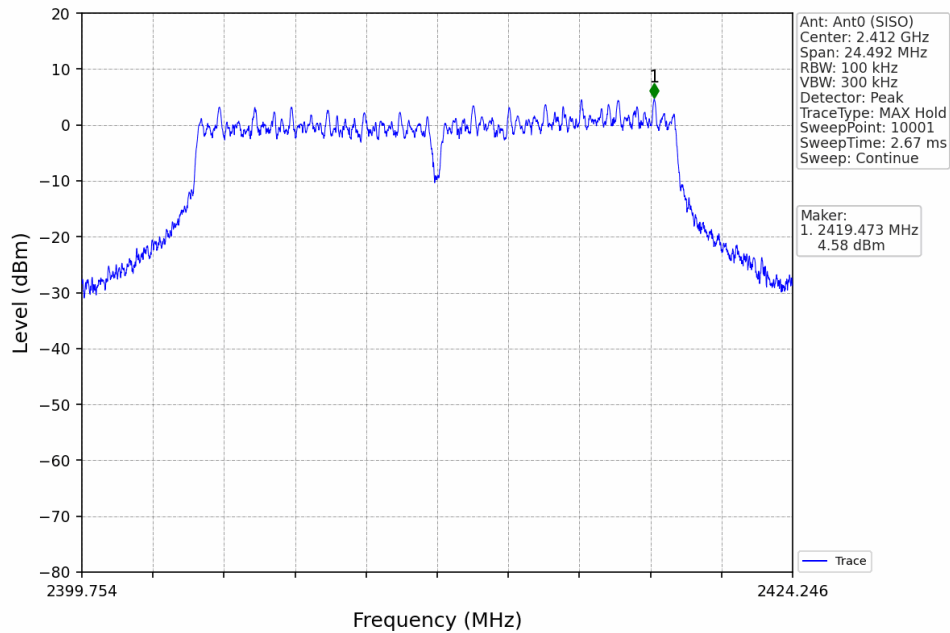
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



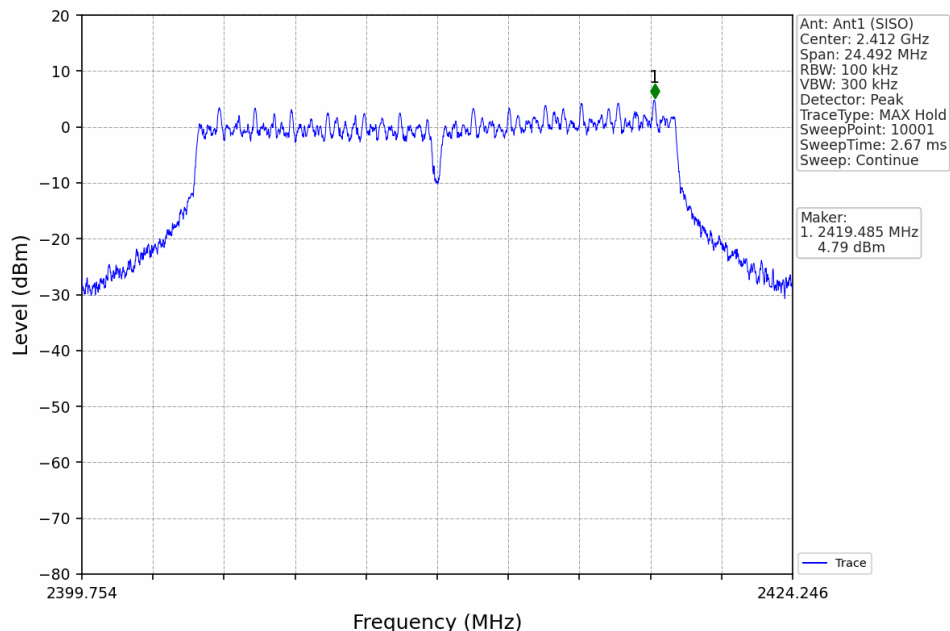
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



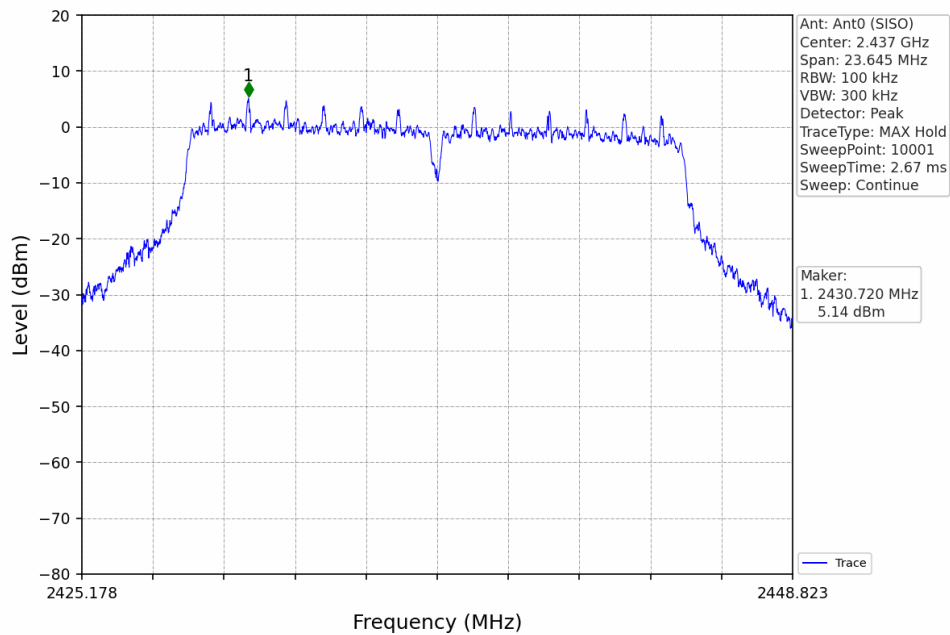
802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



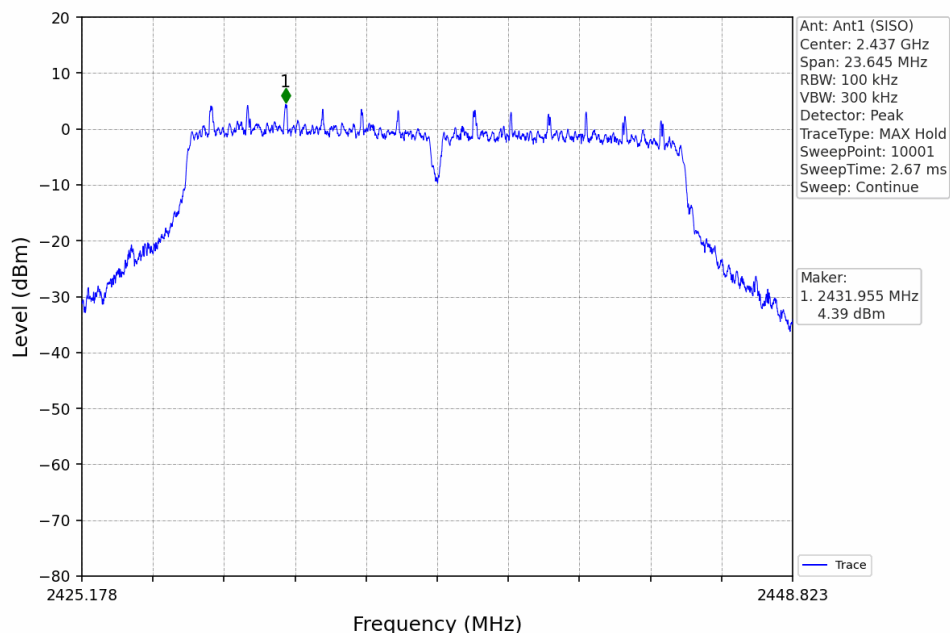
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



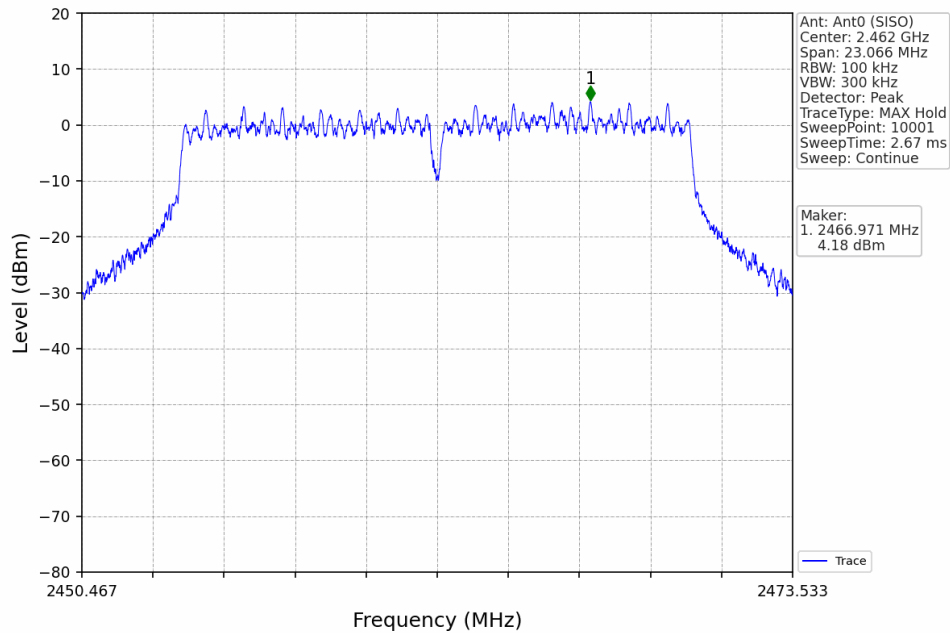
802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV



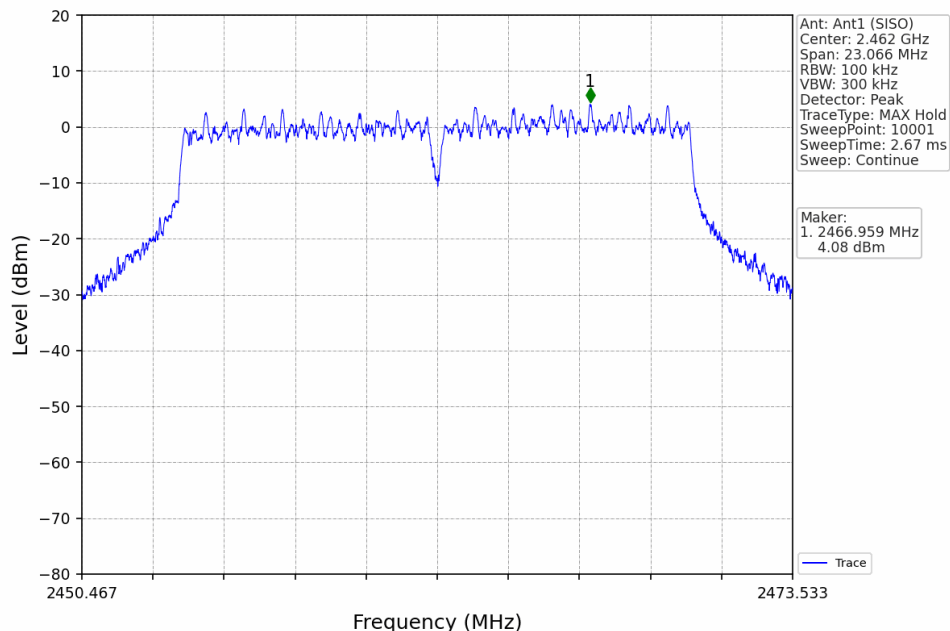
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



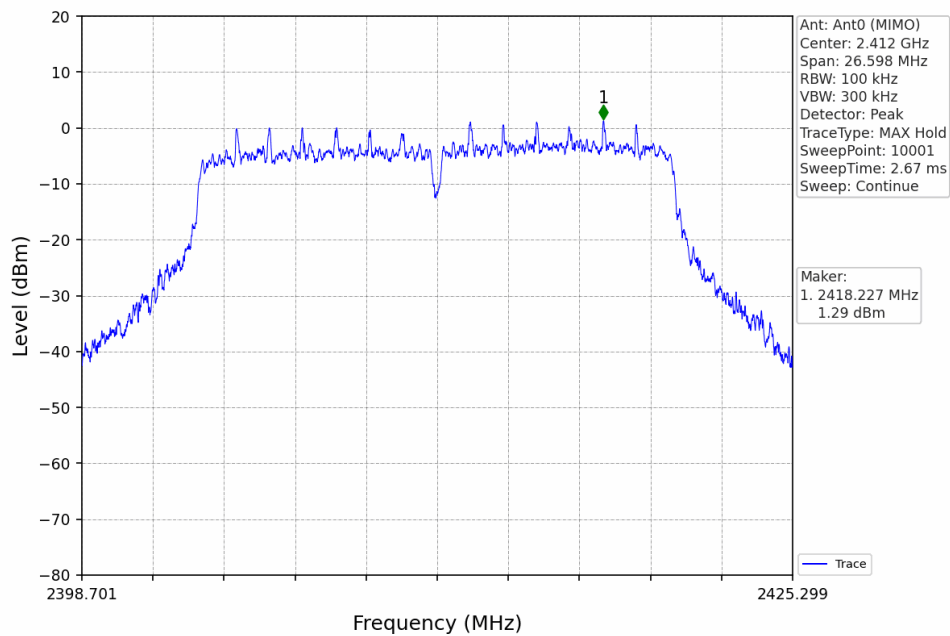
802.11g_HCH_2462MHz_Ant0 (SISO)_NTNV



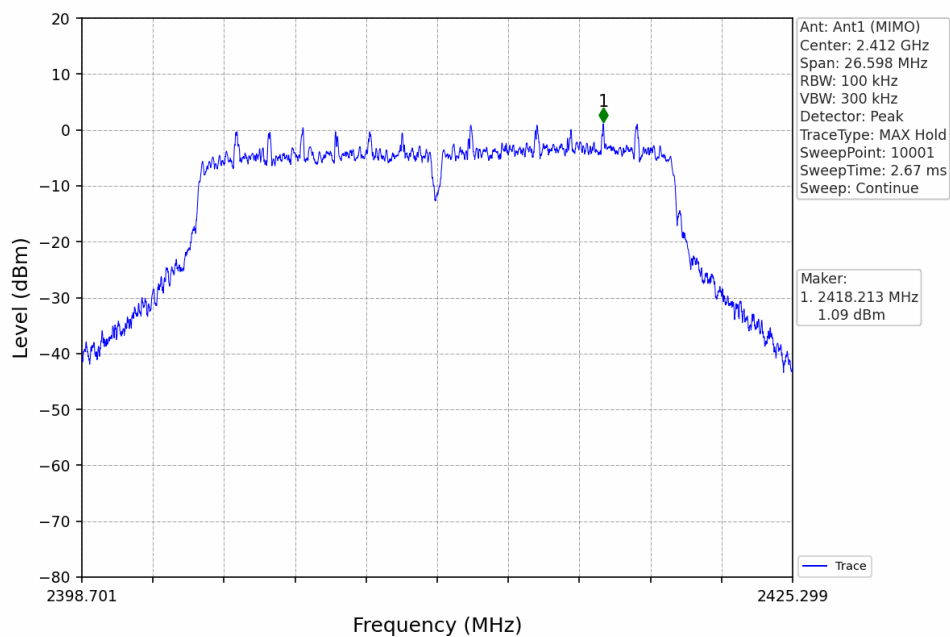
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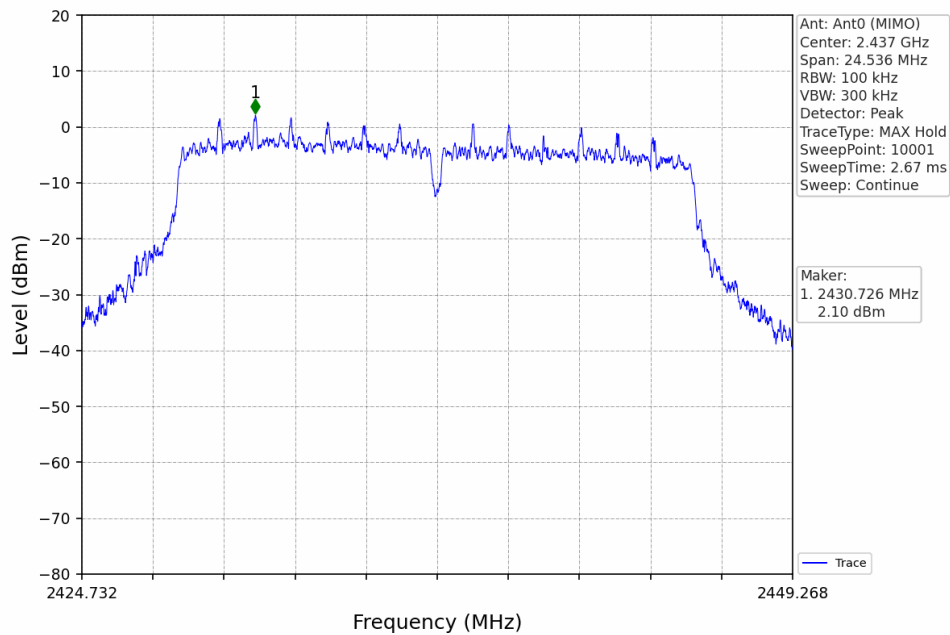
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



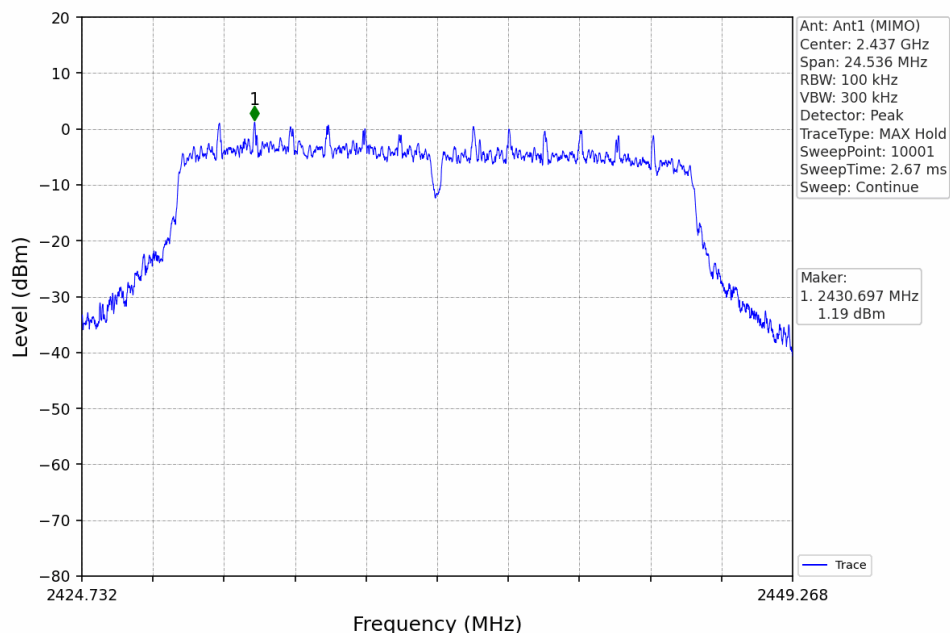
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



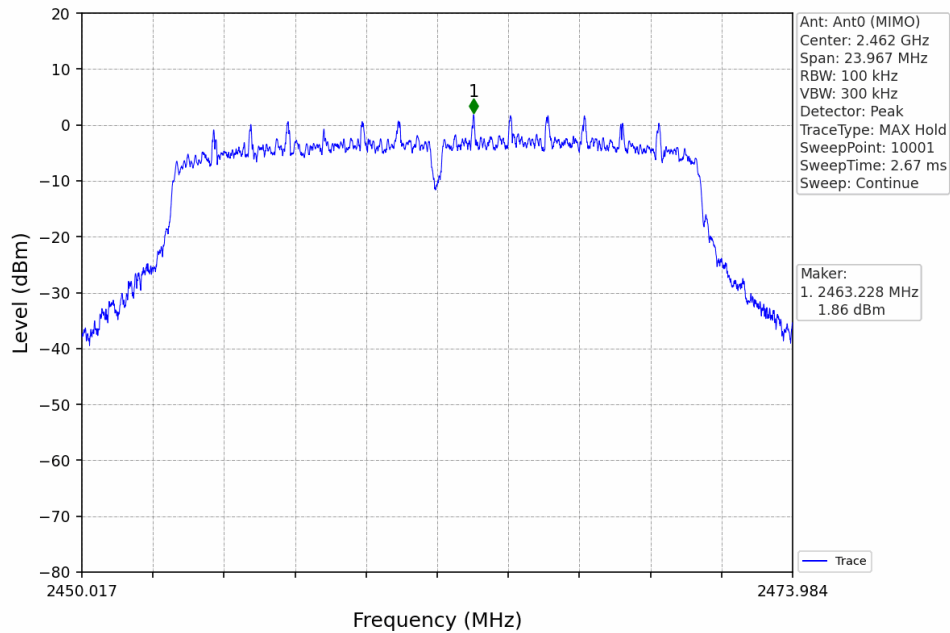
802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



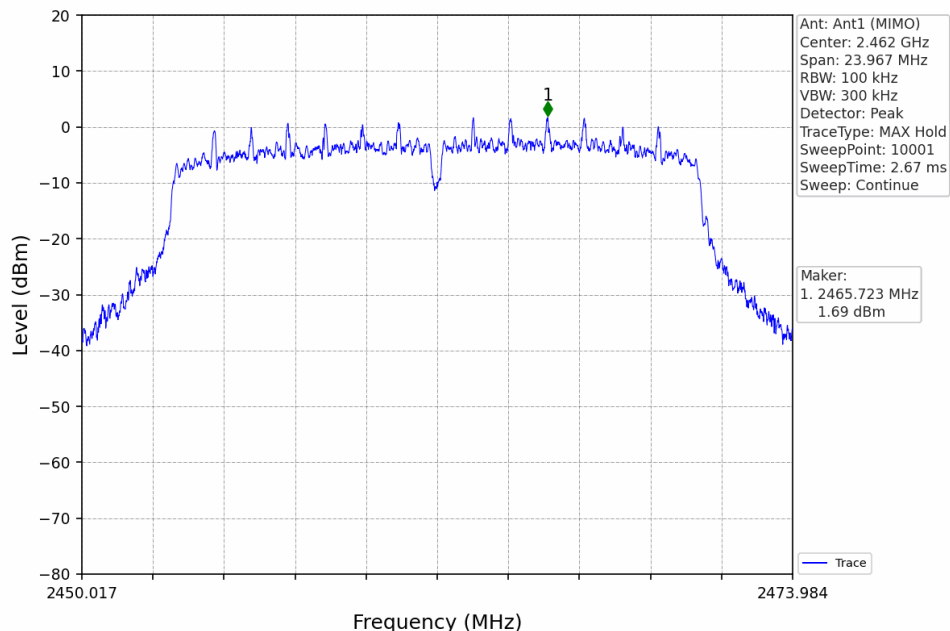
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



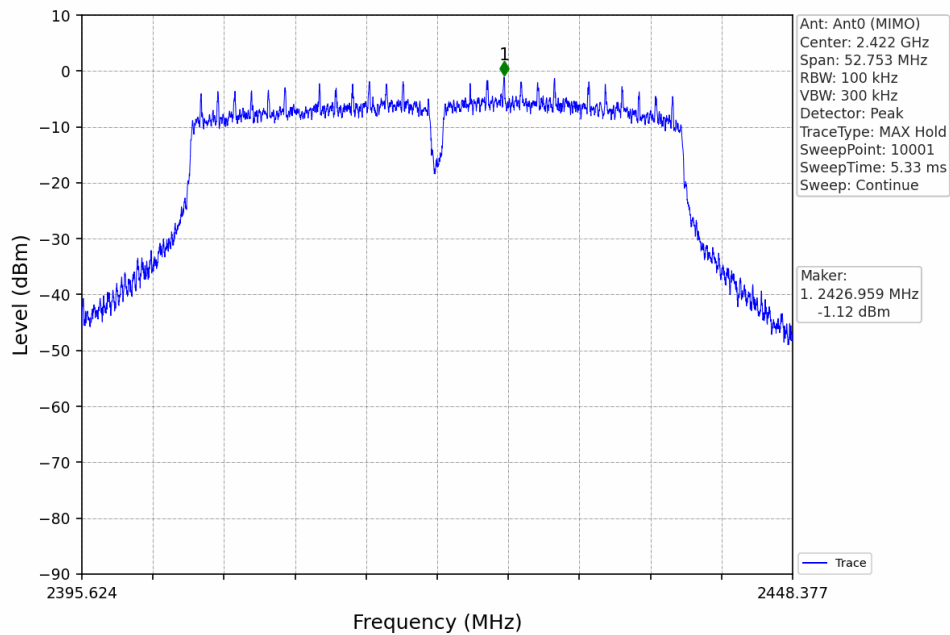
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV

