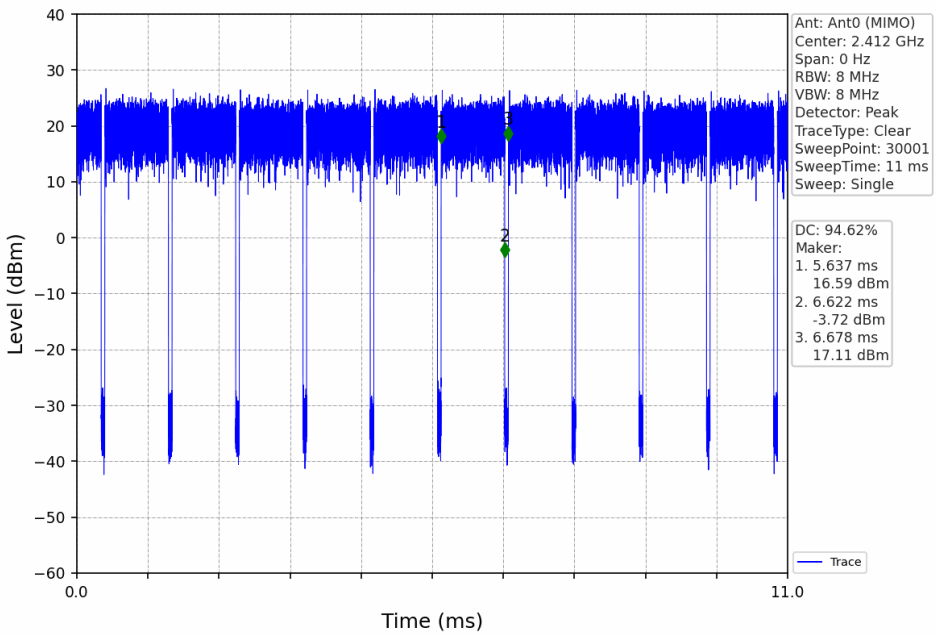
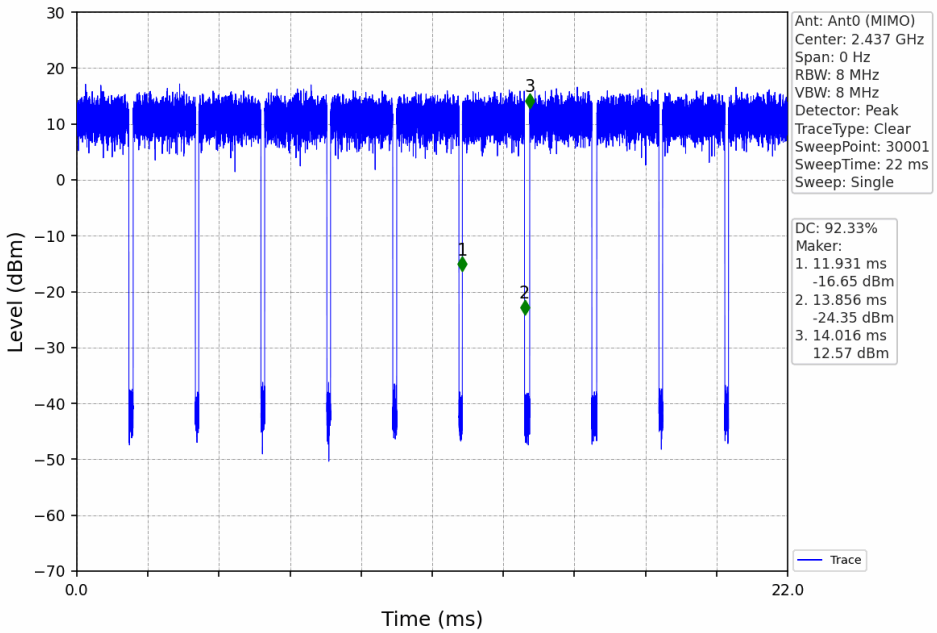
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



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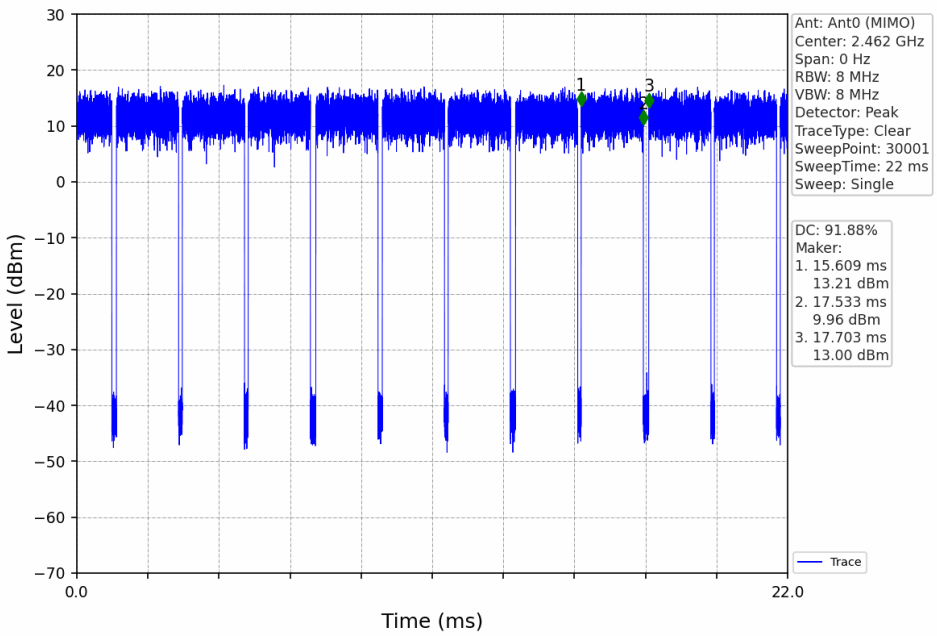
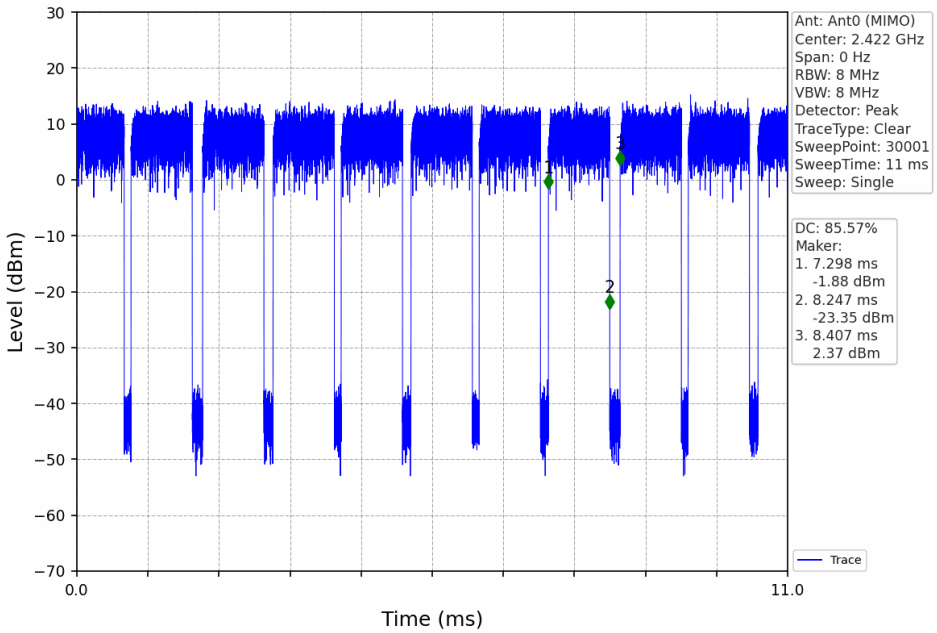
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



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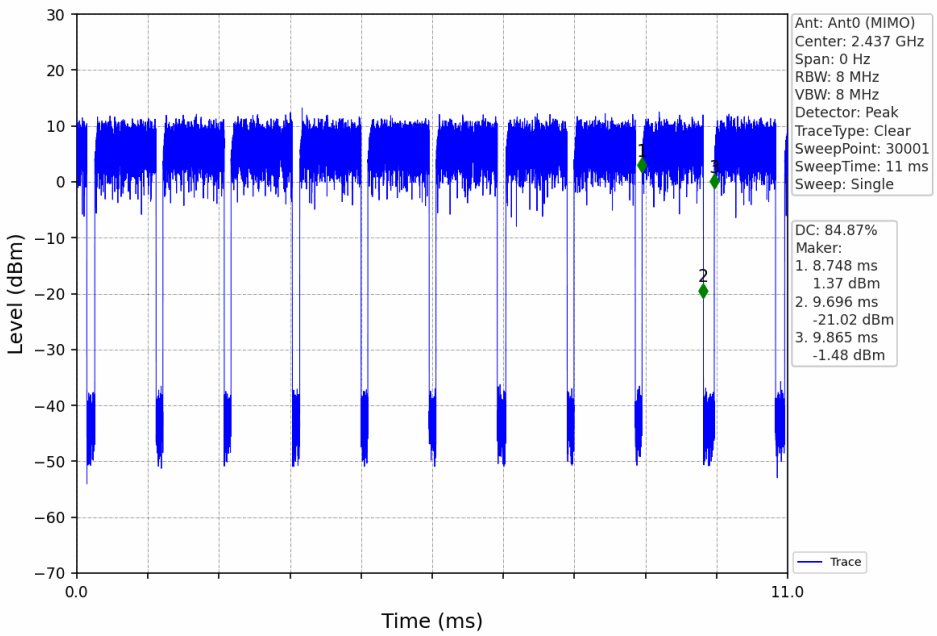
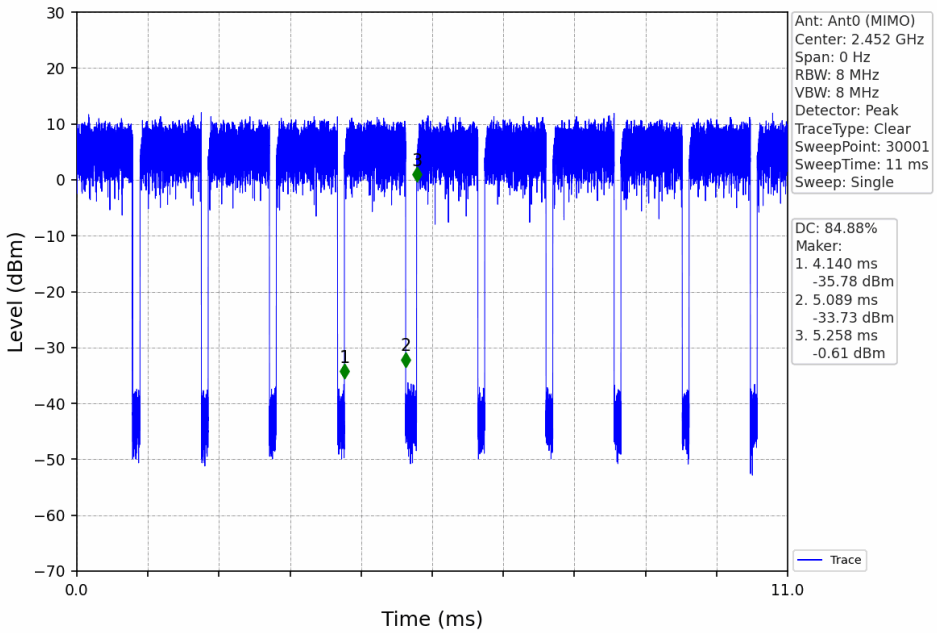
802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant0 (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) Result	Verdict
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

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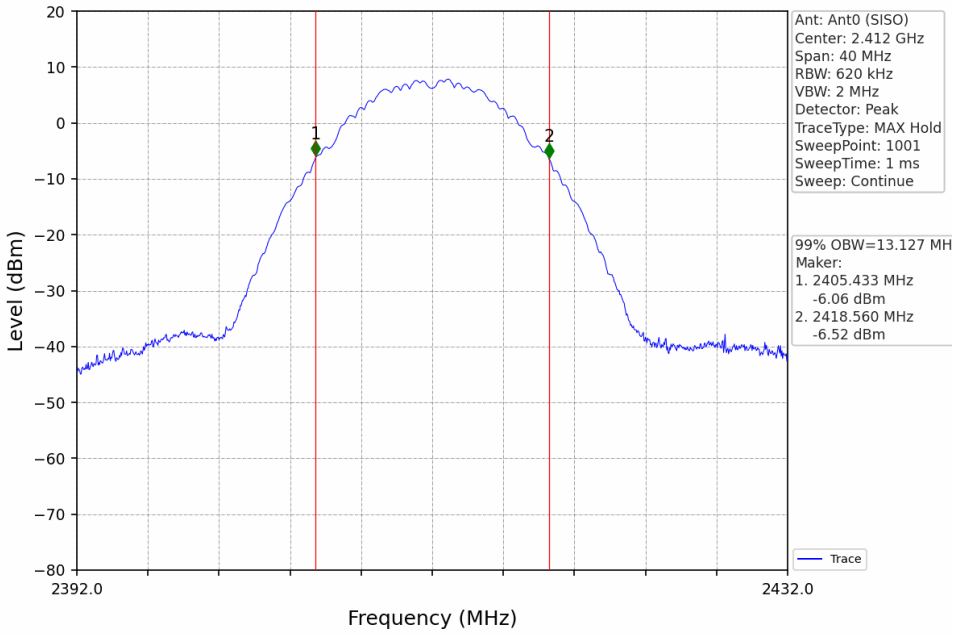
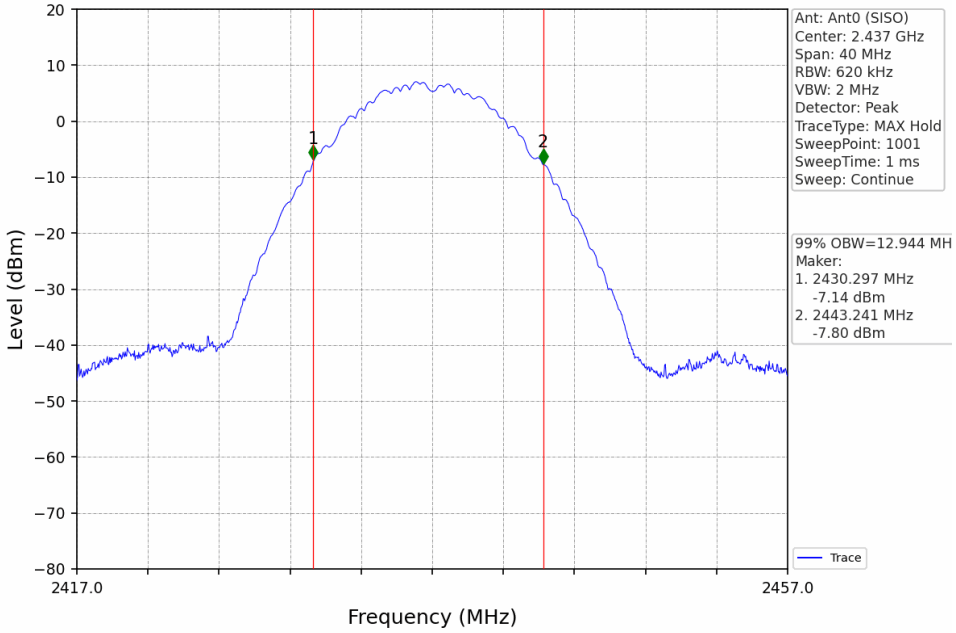
2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant0 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant0 (SISO)_NTNV



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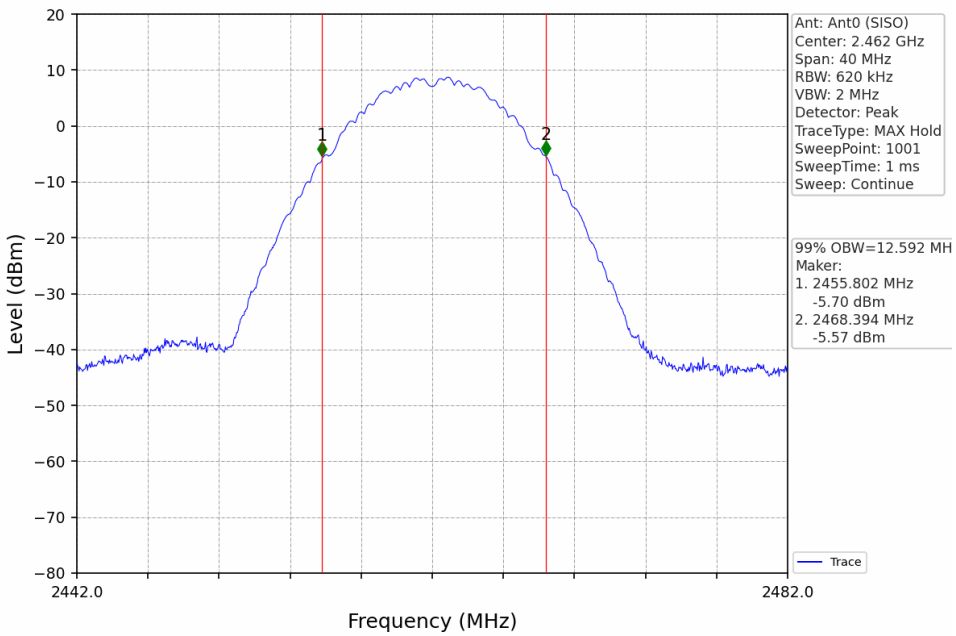
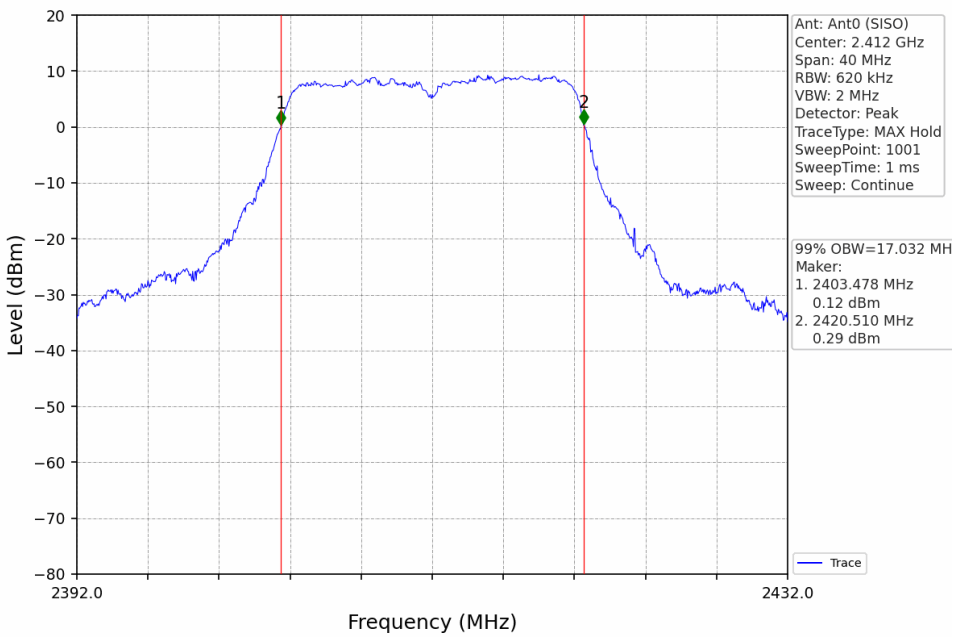
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



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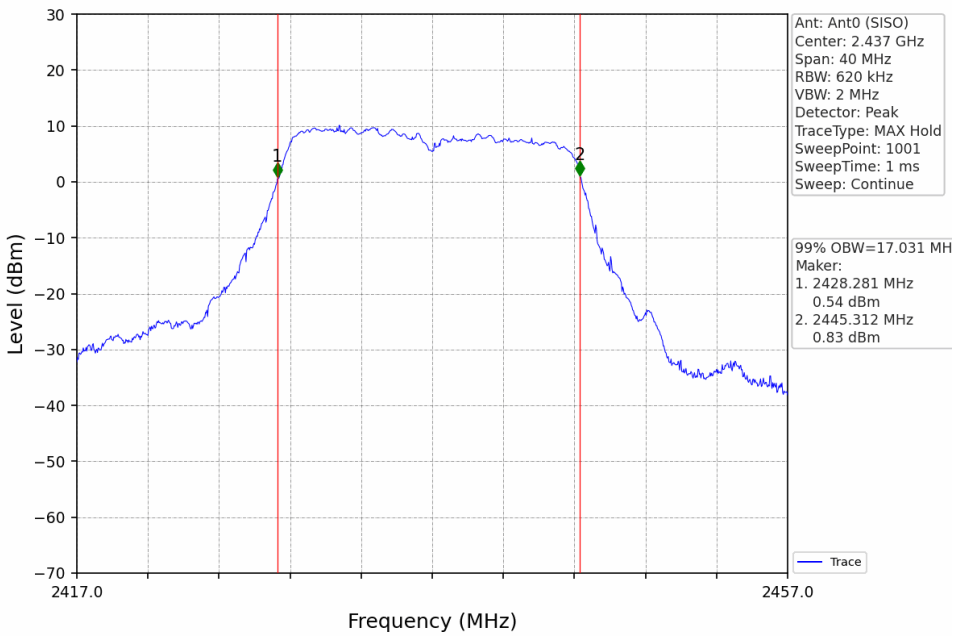
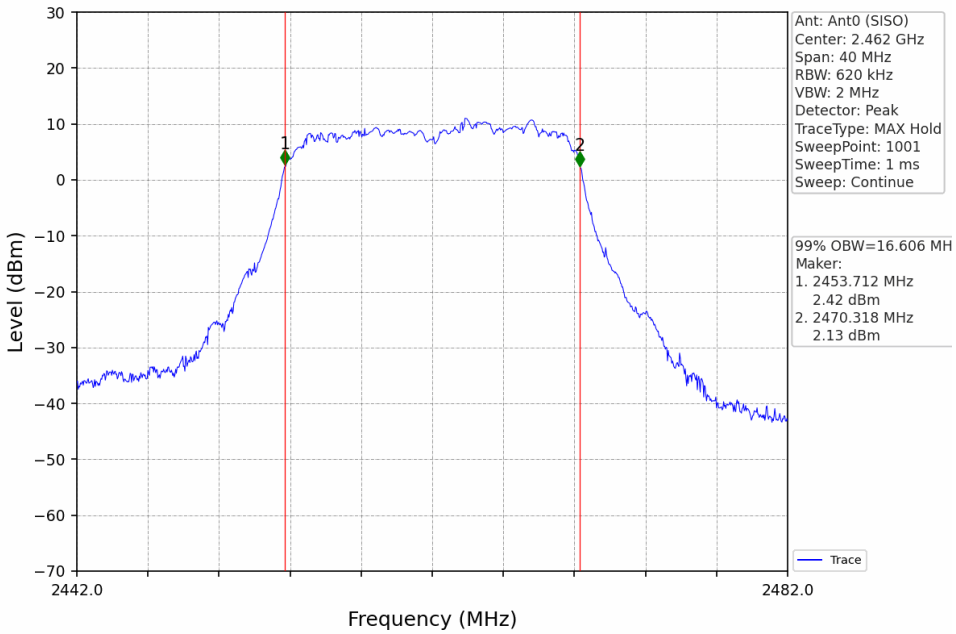
802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant0 (SISO)_NTNV



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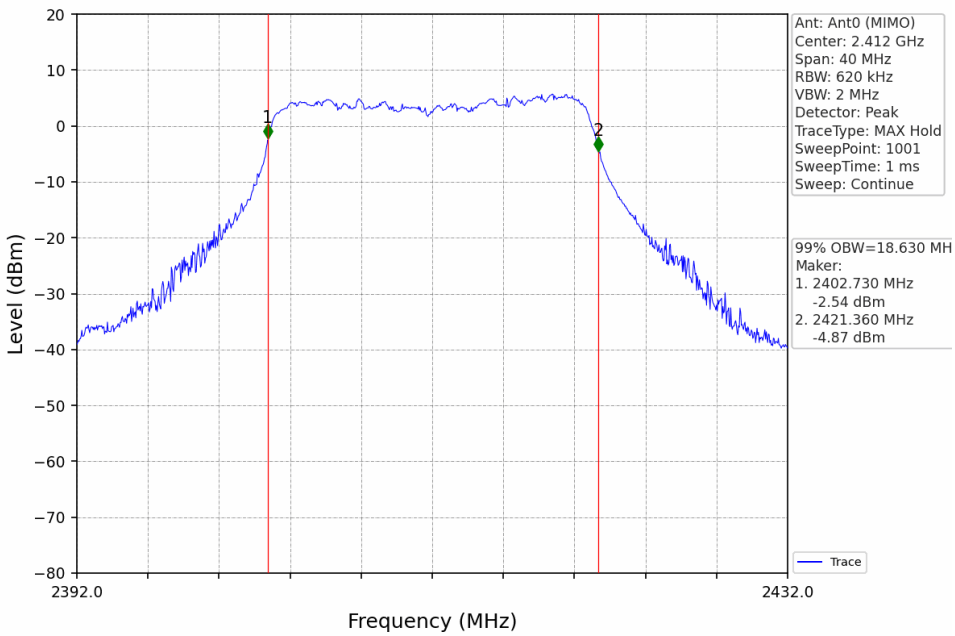
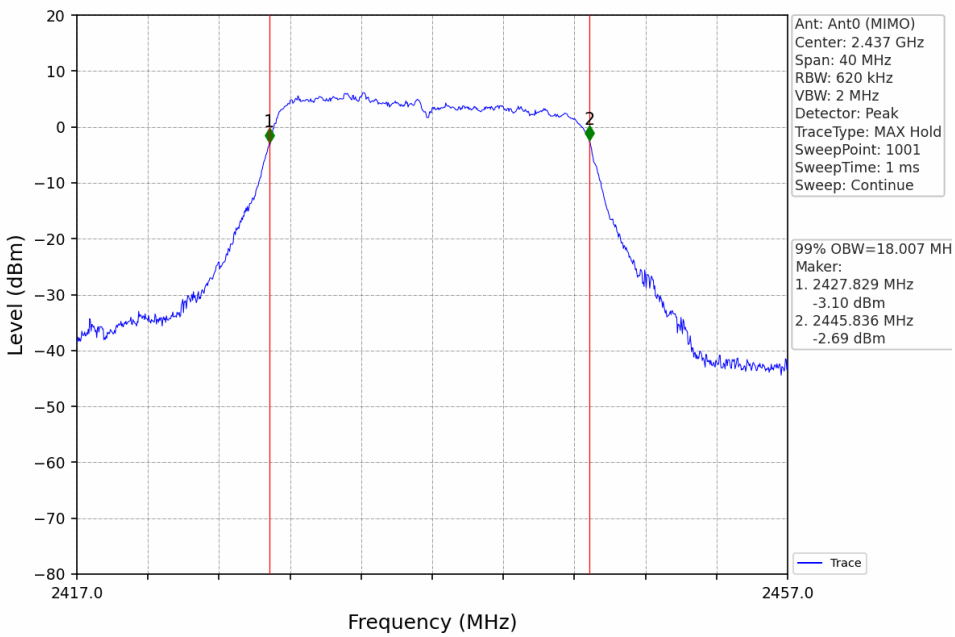
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



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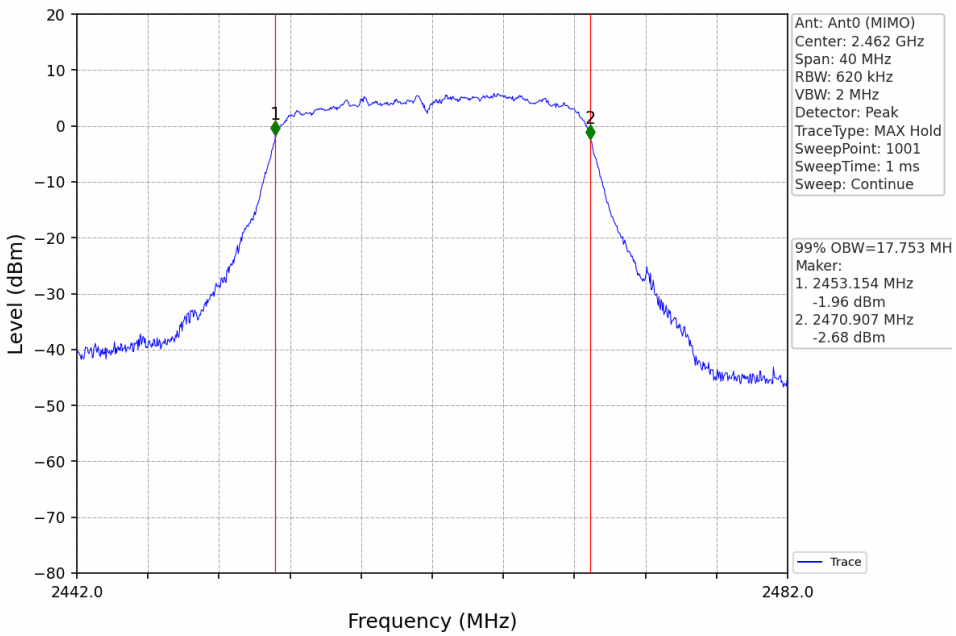
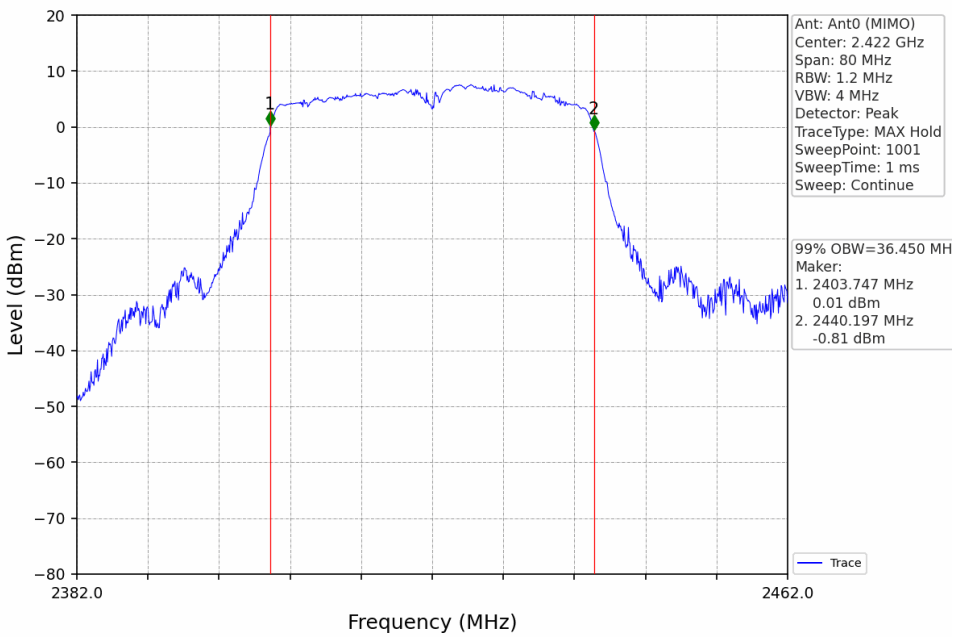
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



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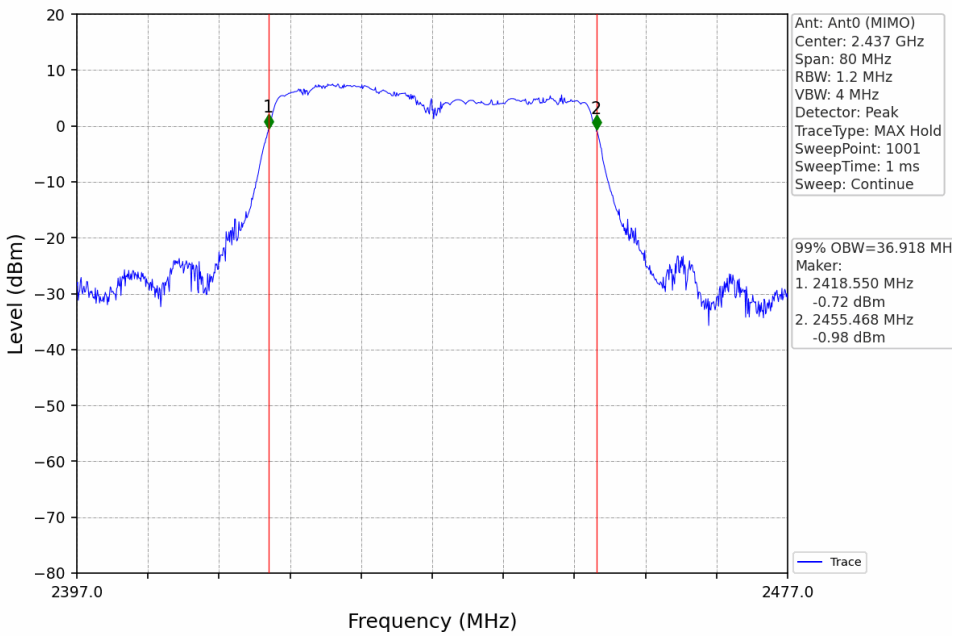
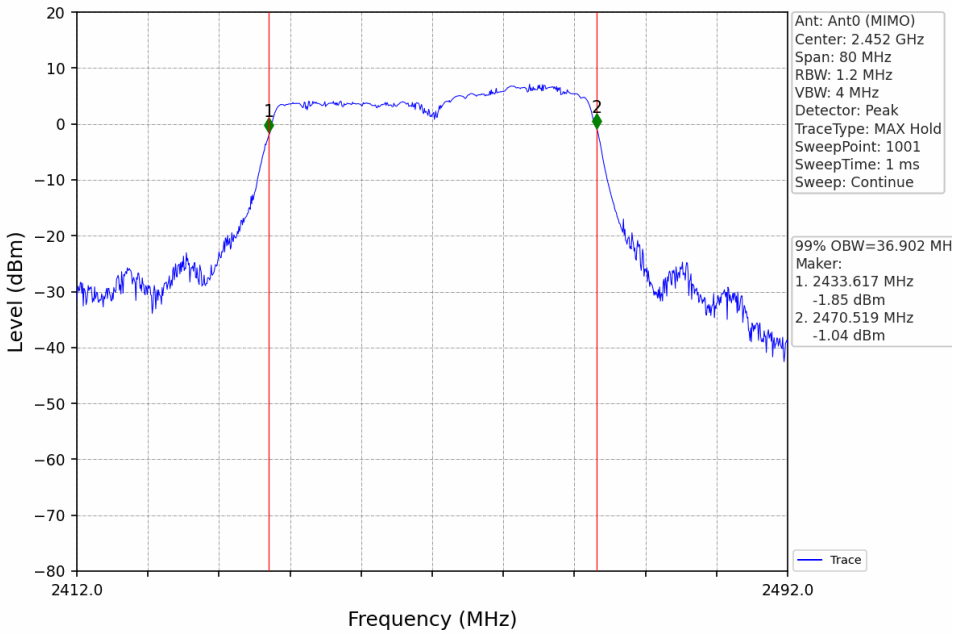


802.11n(HT40)_HCH_2452MHz_Ant0 (MIMO)_NTNV



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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	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

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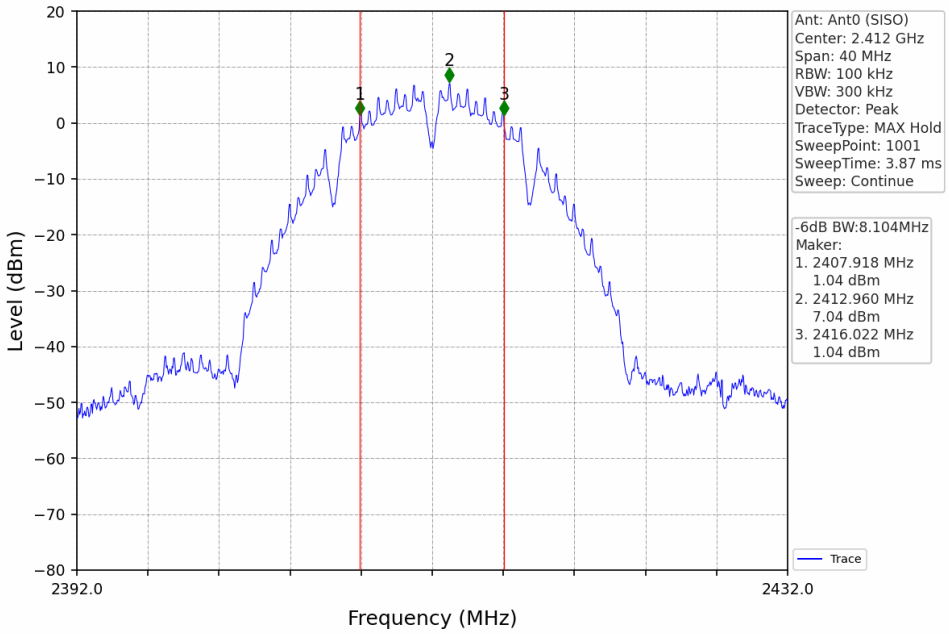
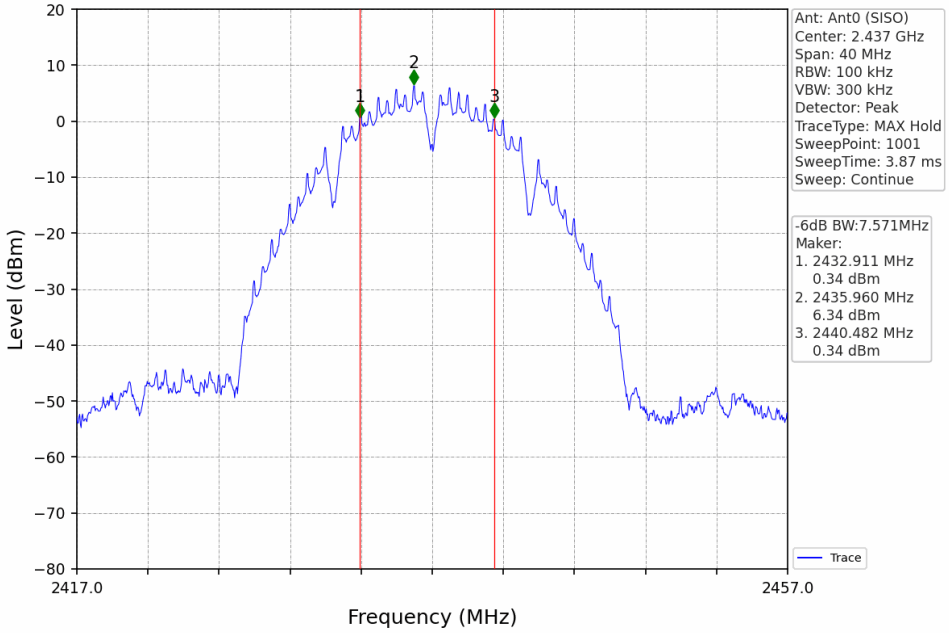
2.2.2 Test Graph

802.11b_LCH_2412MHz_Ant0 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant0 (SISO)_NTNV



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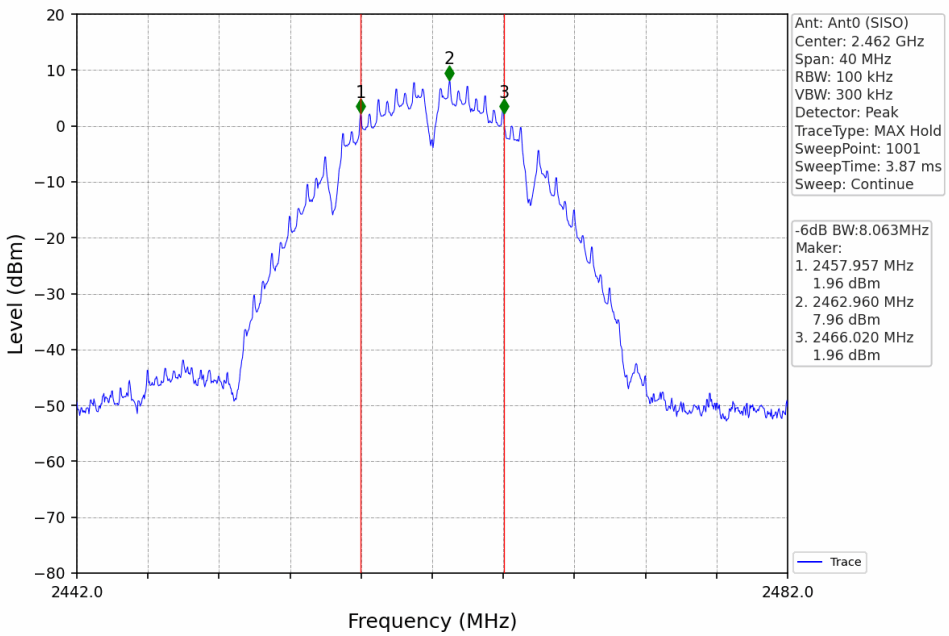
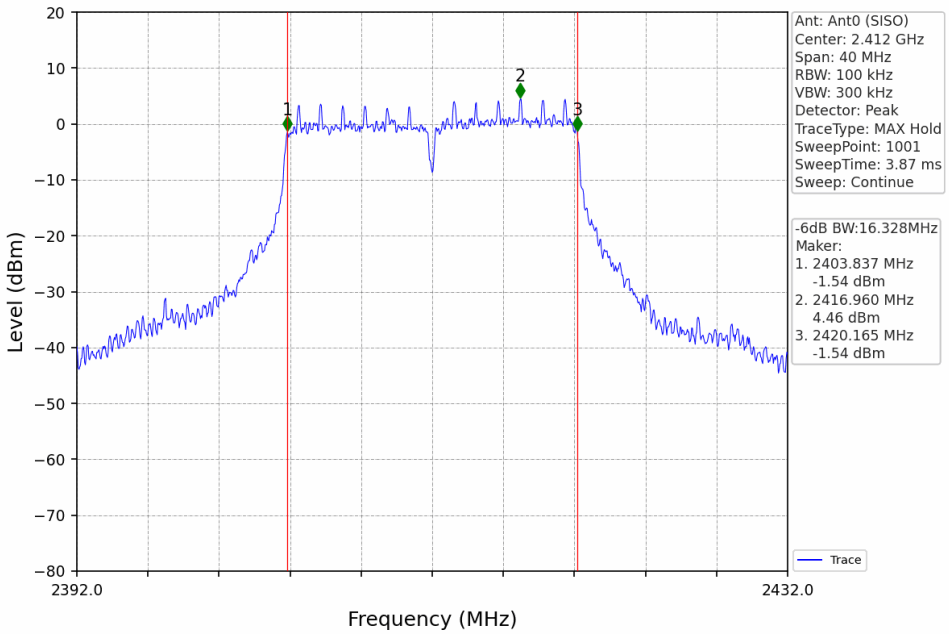
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



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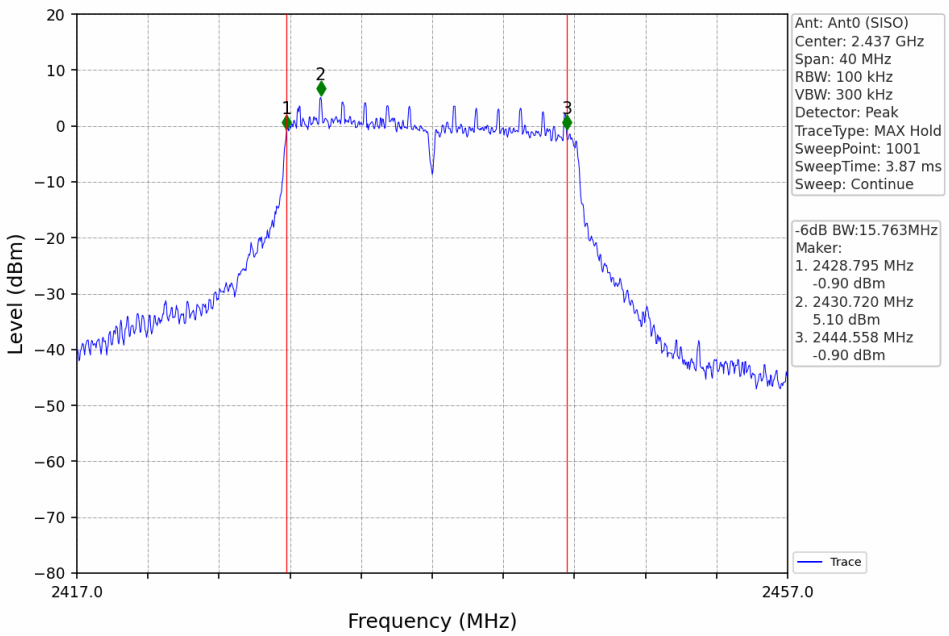
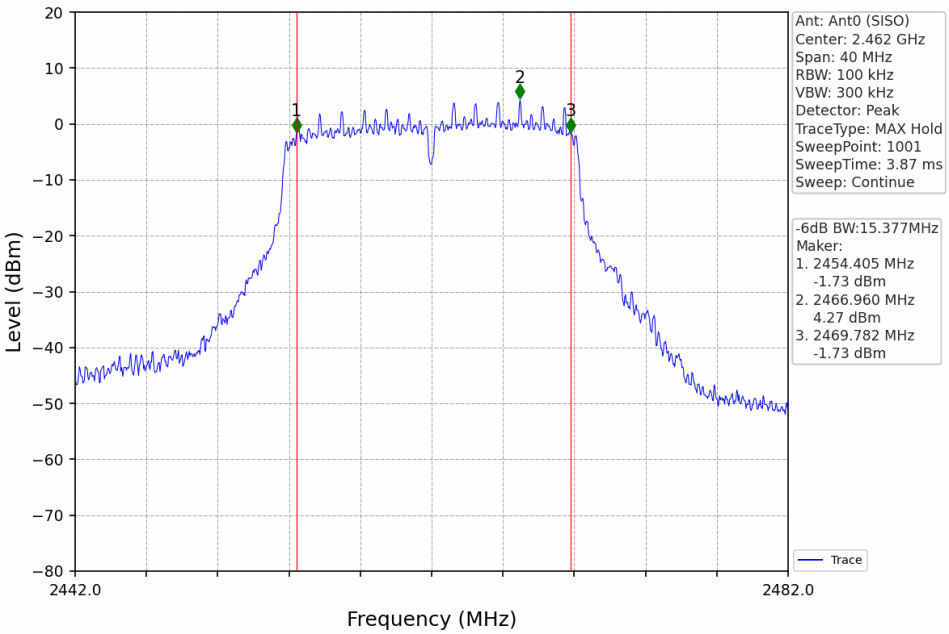
802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant0 (SISO)_NTNV



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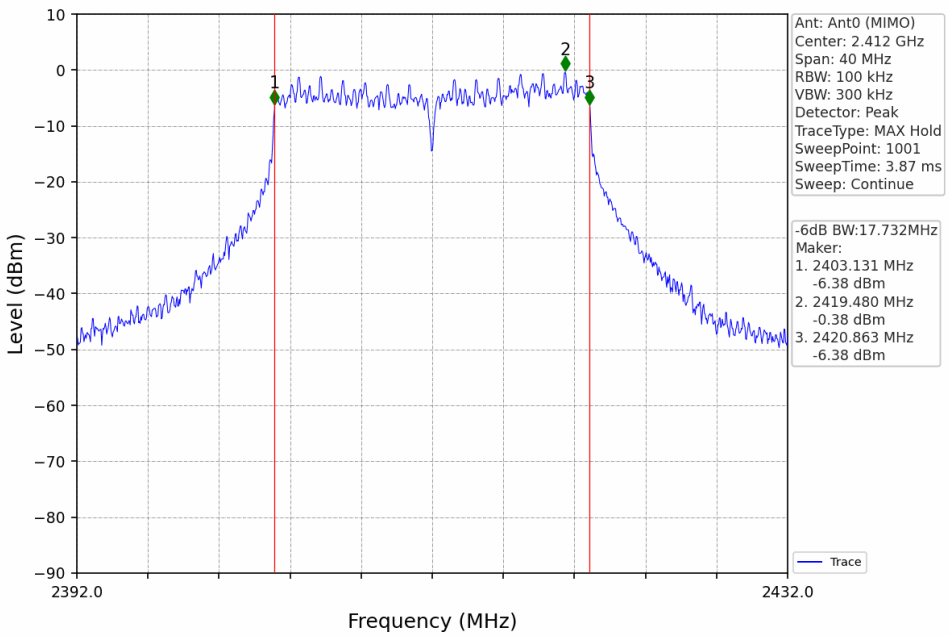
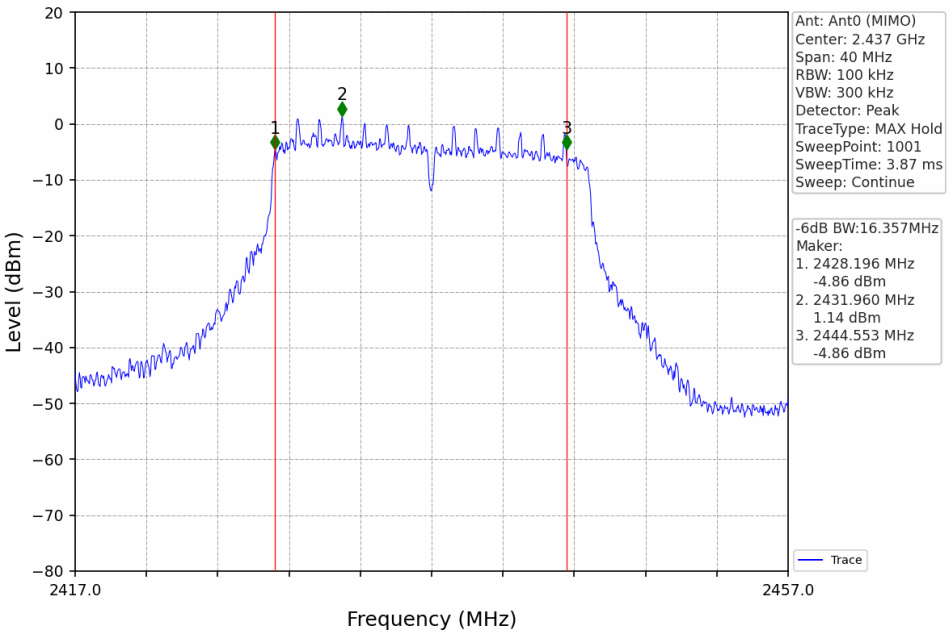
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



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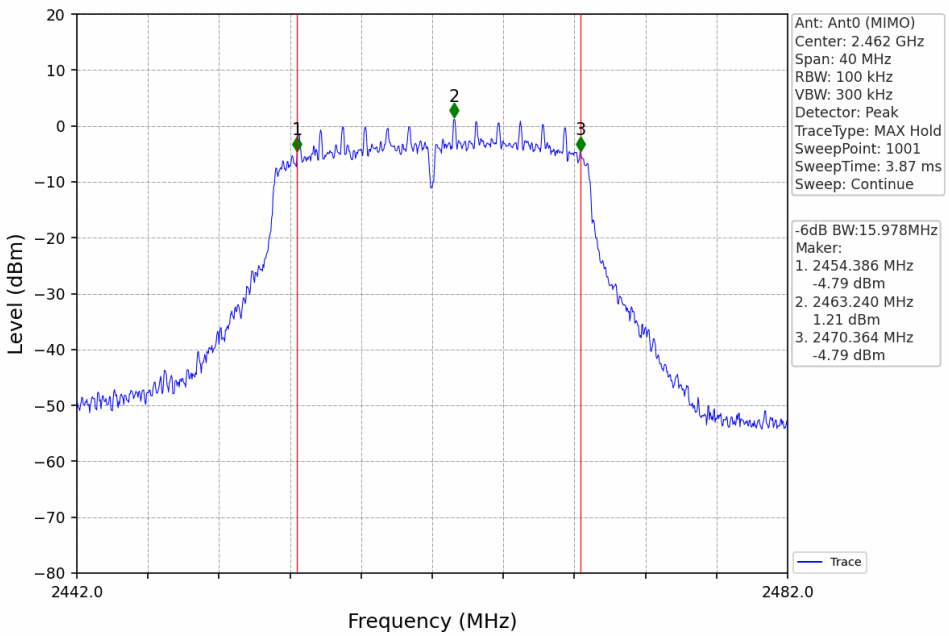
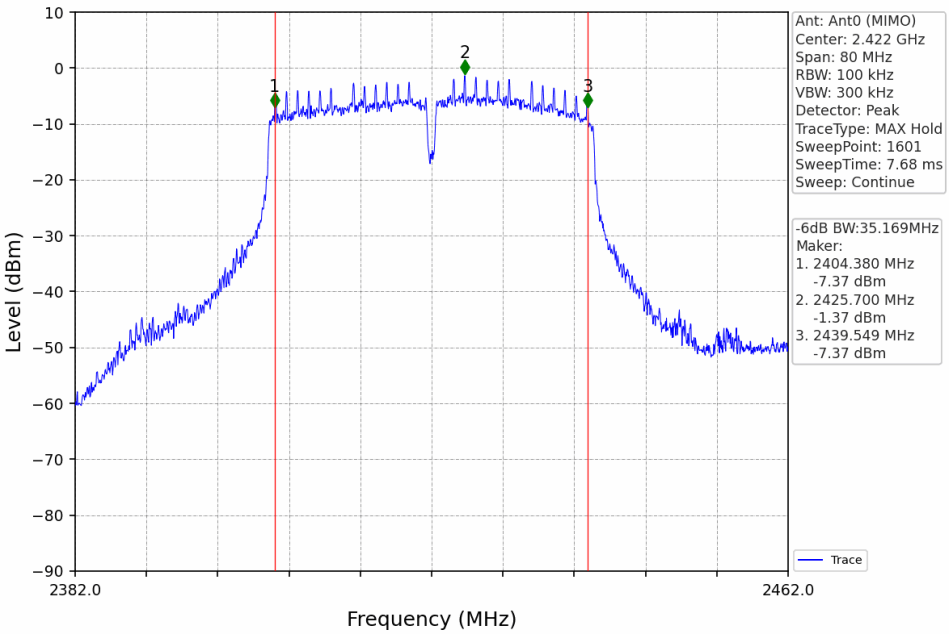
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



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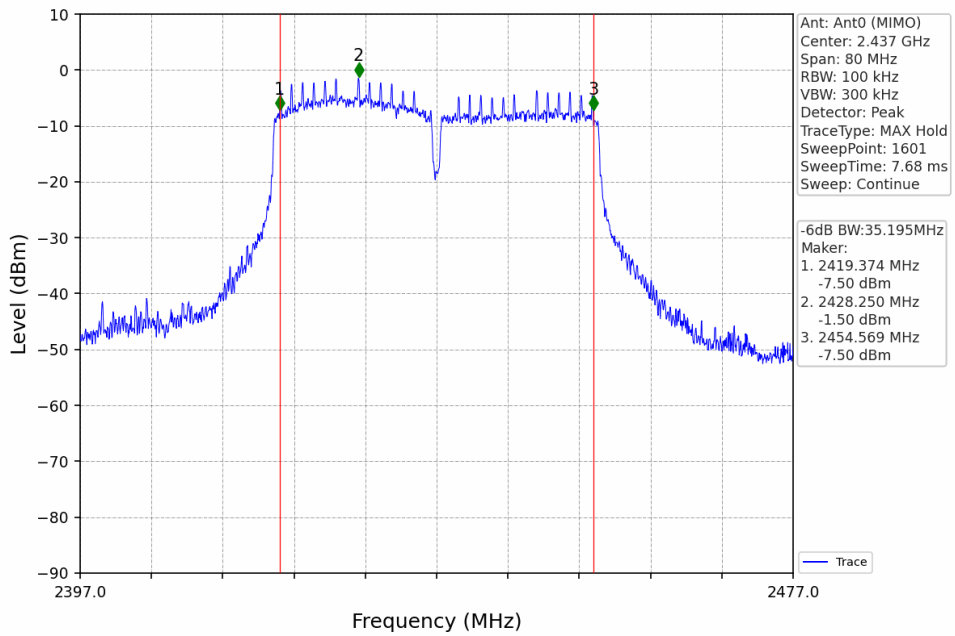
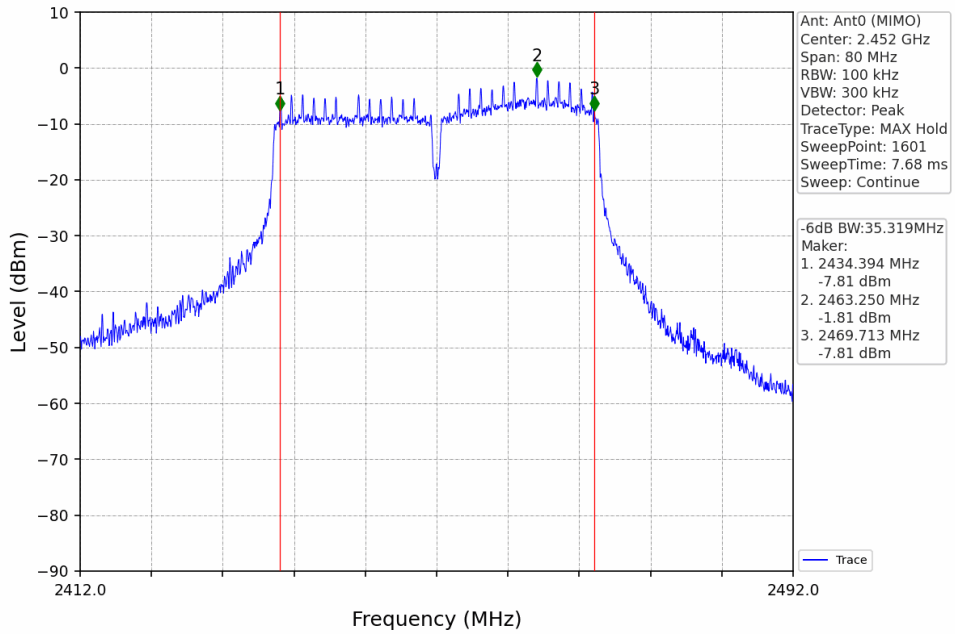
802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant0 (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
			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}+10log (N_{Ant}) dBi = 2.5+10log (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}+10log (N_{Ant}) dBi = 2.5+10log (2) dBi = 5.51dBi.							

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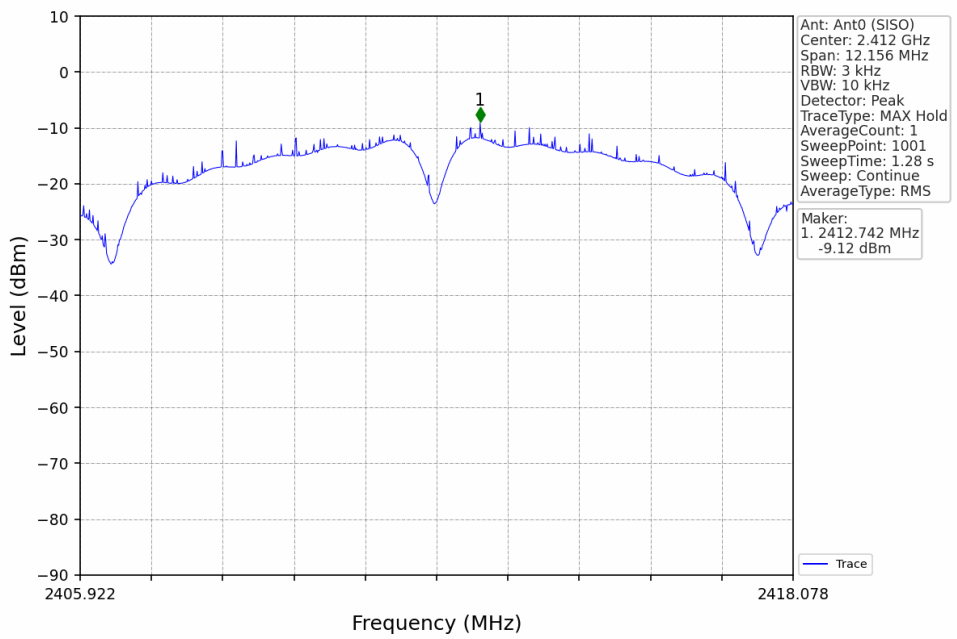
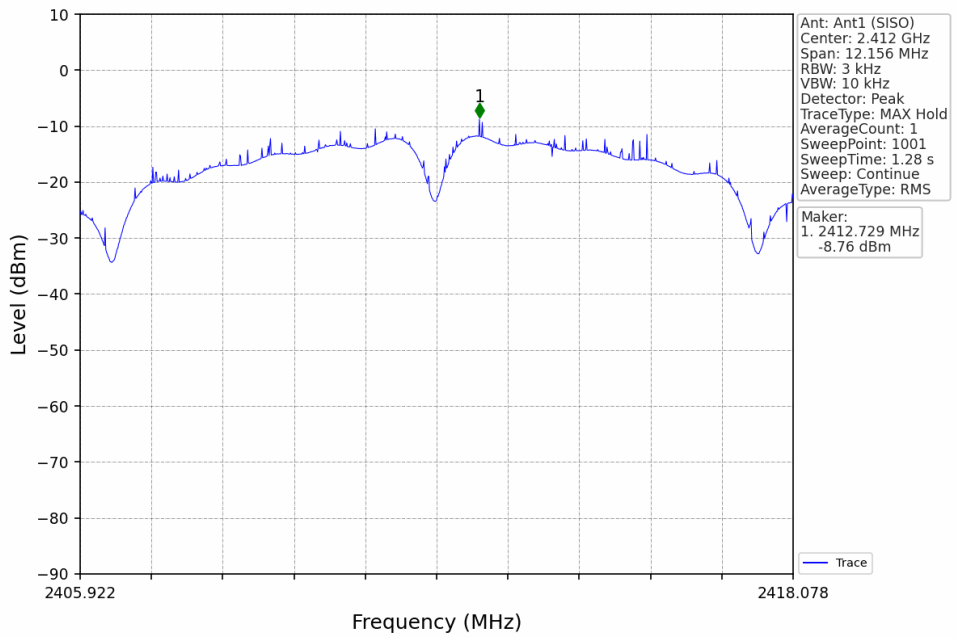
4.1.2 Test Graph

802.11b_LCH_2412MHz_Ant0 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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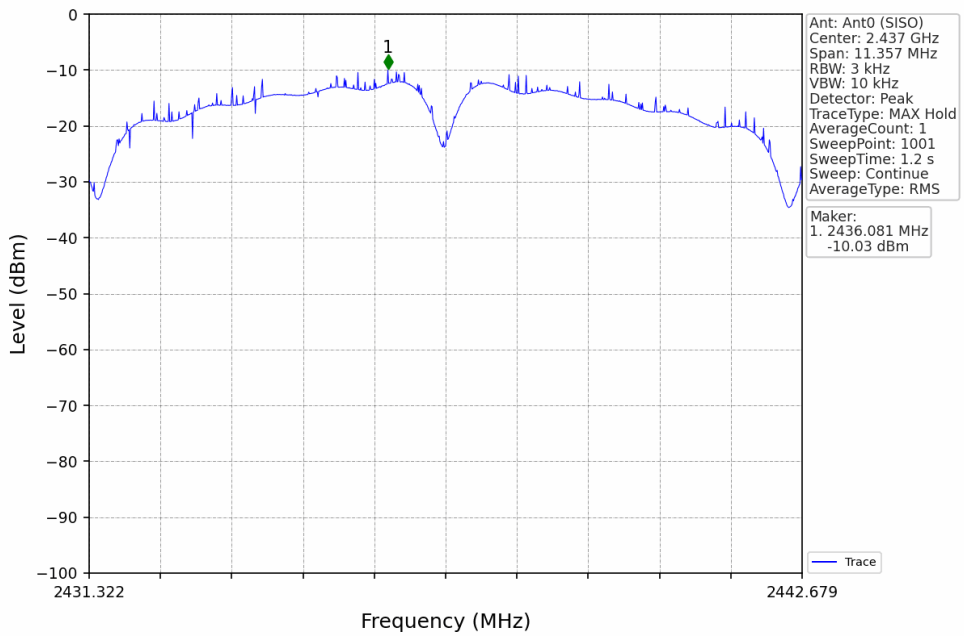
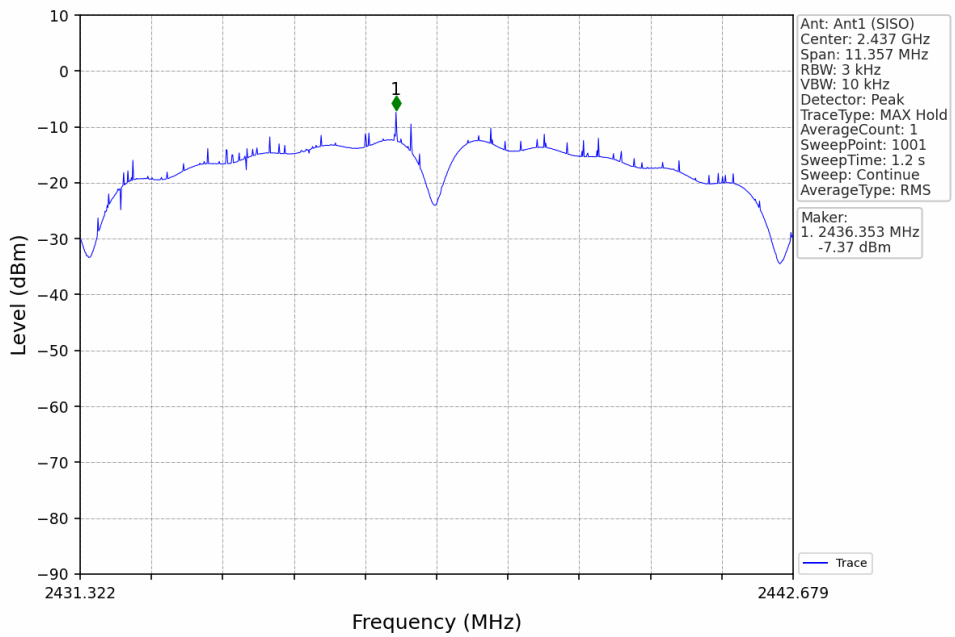
802.11b_MCH_2437MHz_Ant0 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 f (86–20) 82075058 sgs.china@sgs.com
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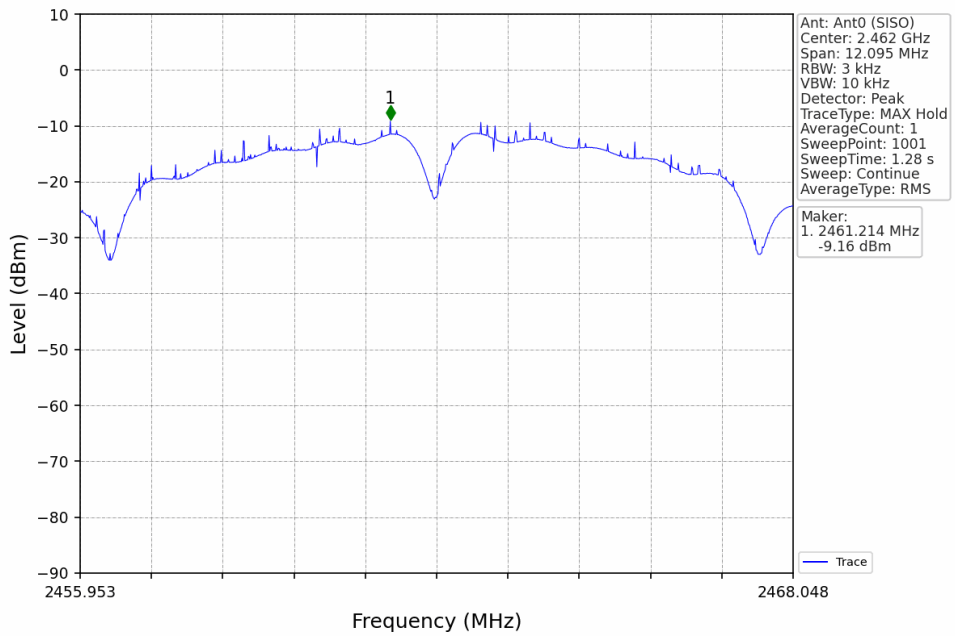
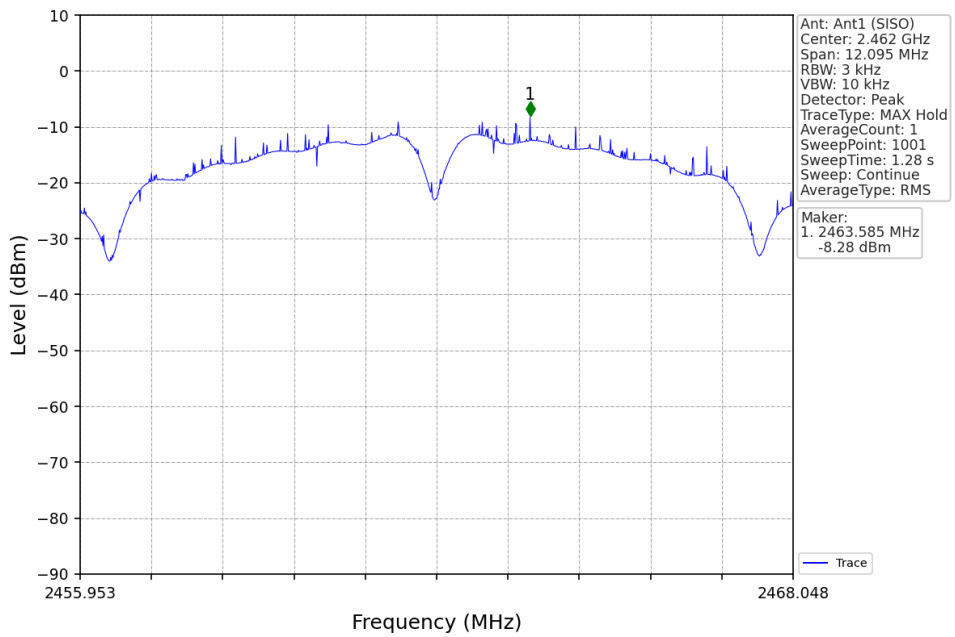
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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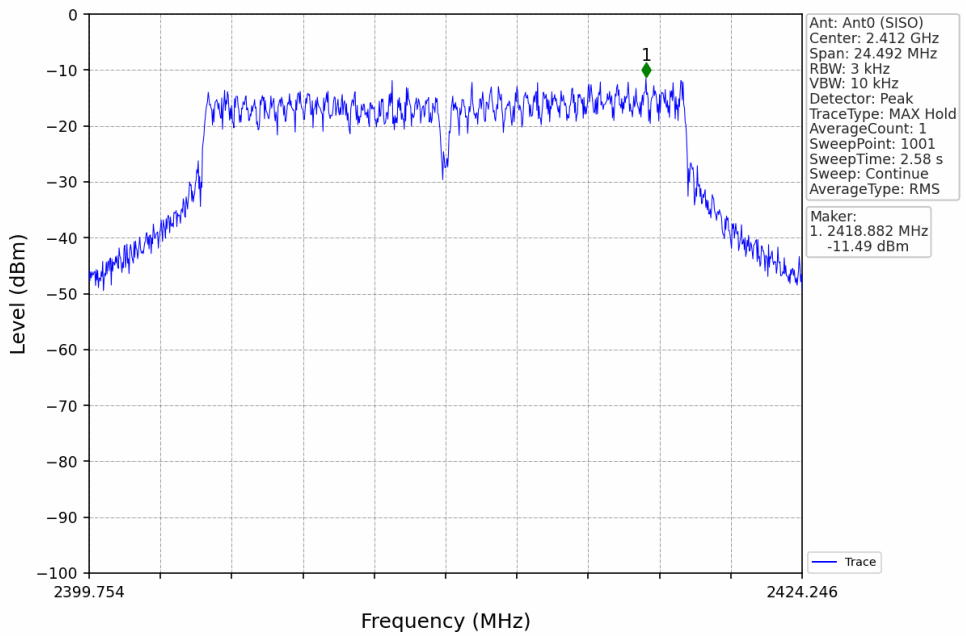
802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



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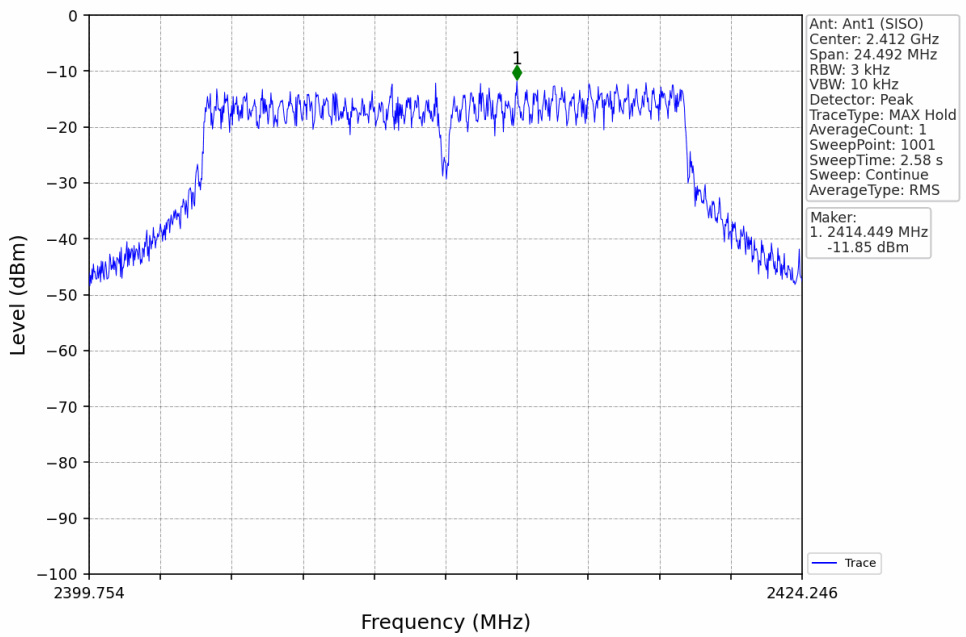

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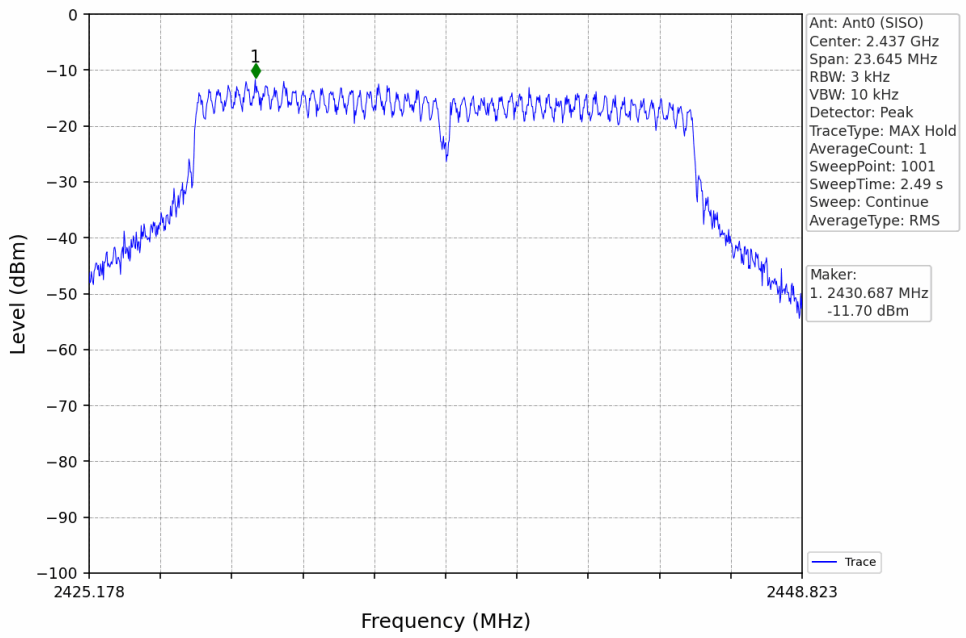
802.11g_MCH_2437MHz_Ant0 (SISO)_NTNV



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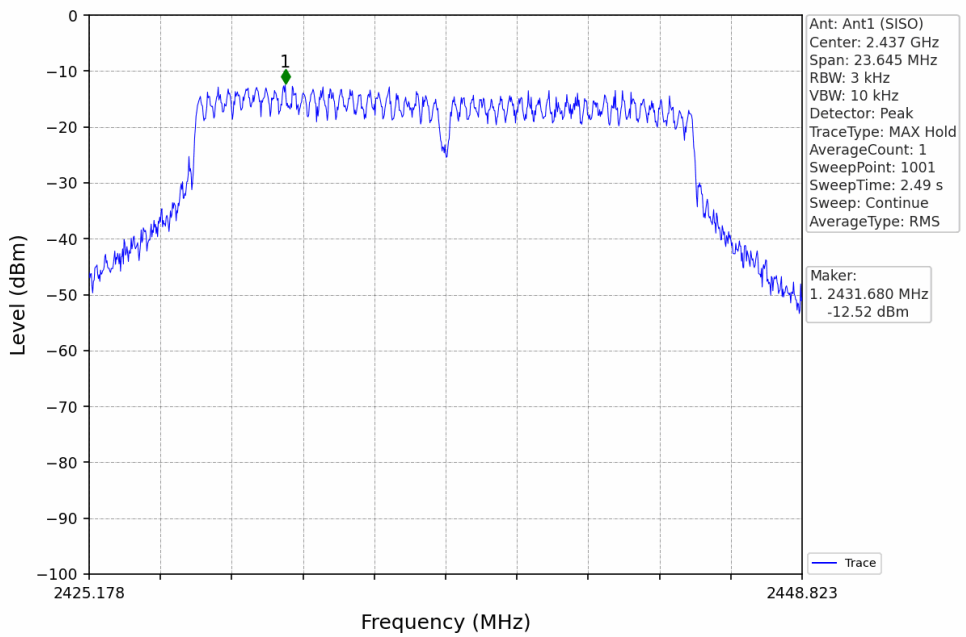

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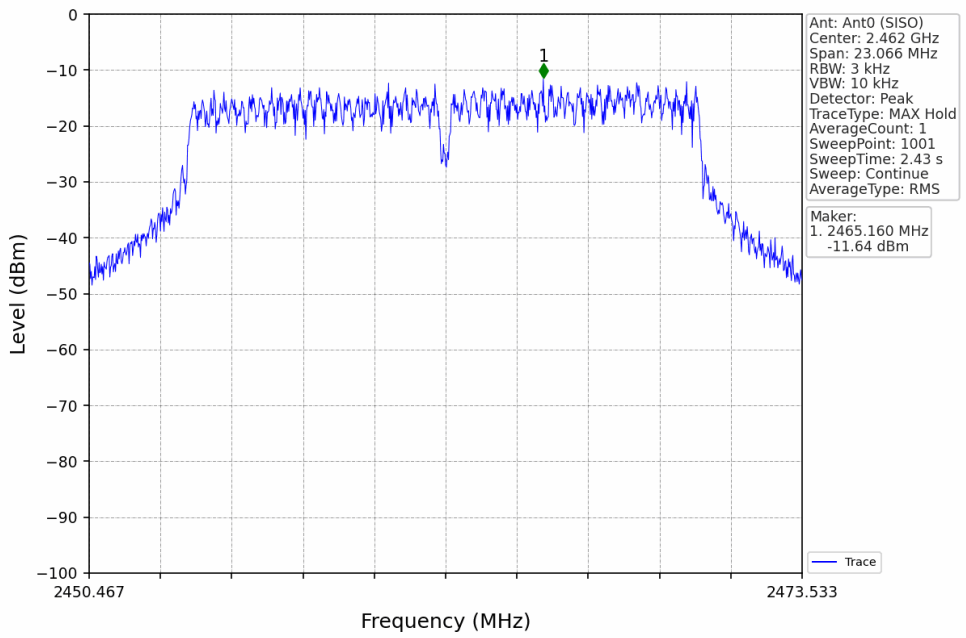
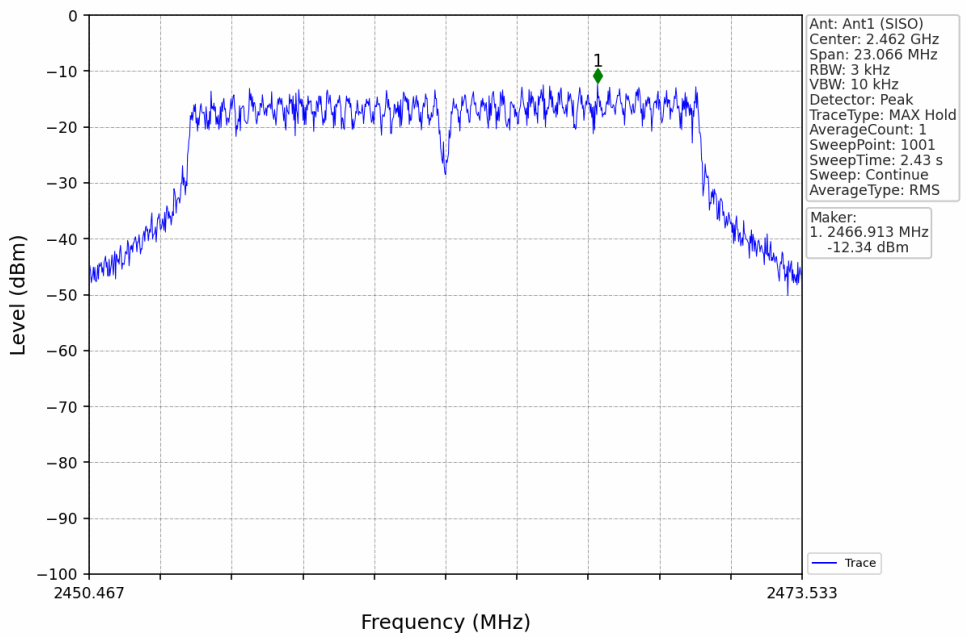
802.11g_HCH_2462MHz_Ant0 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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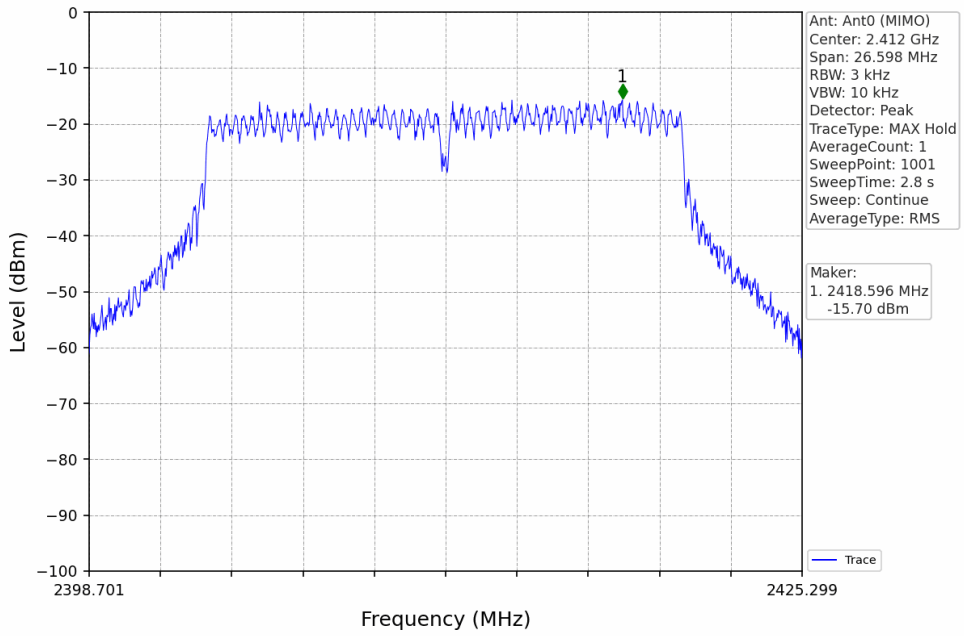
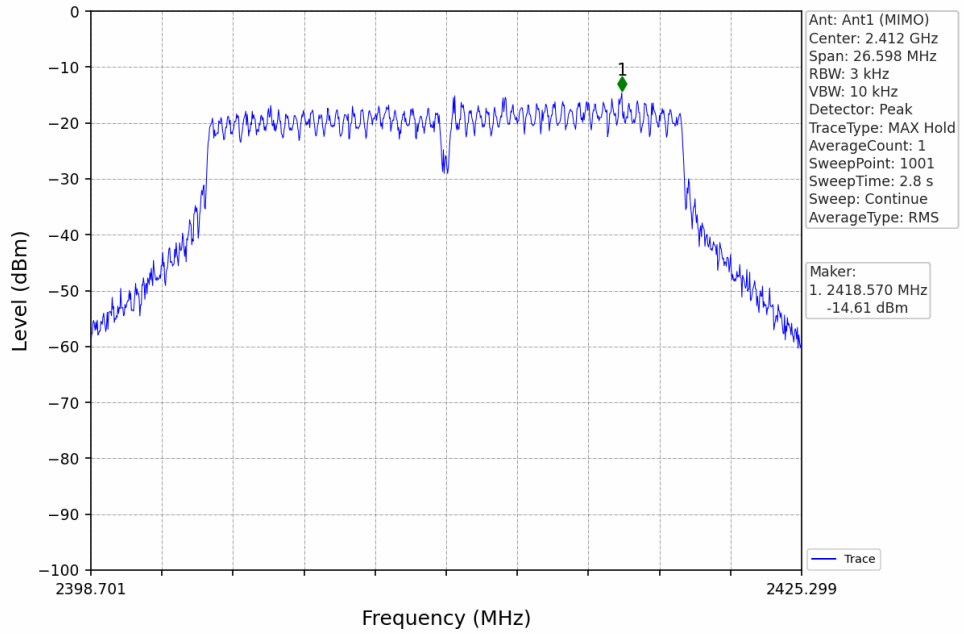
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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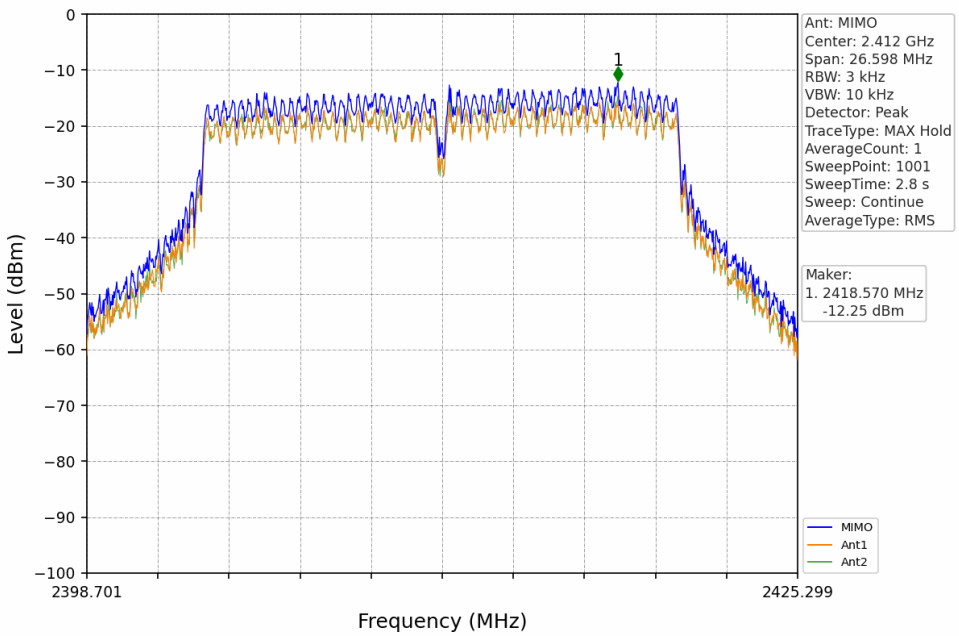
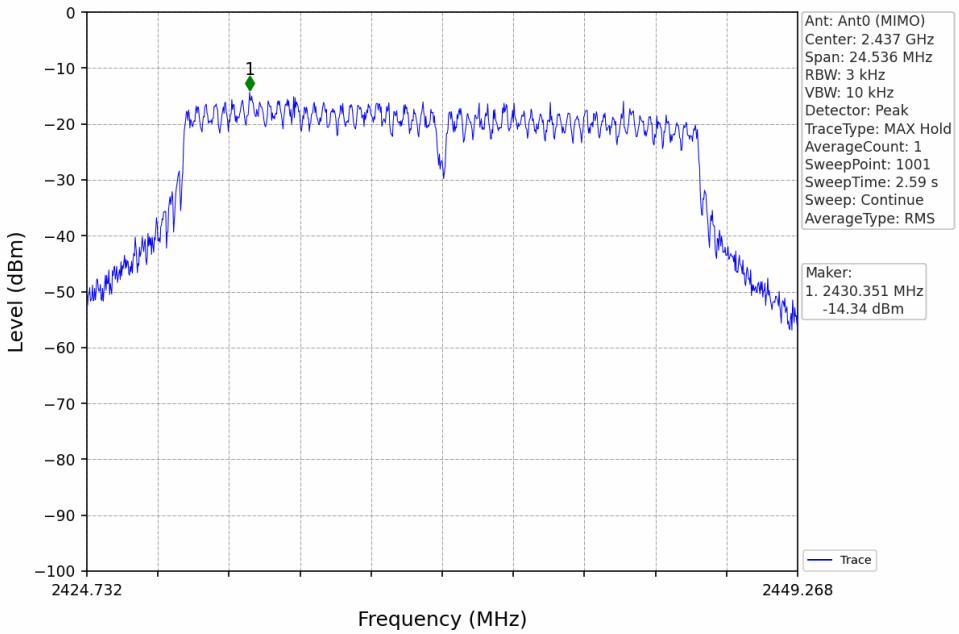
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



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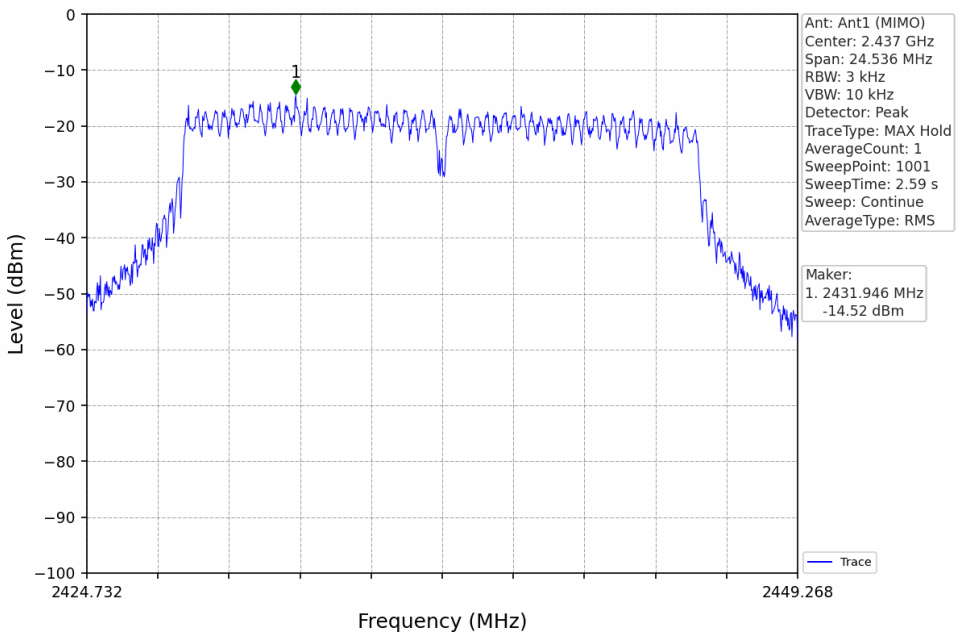
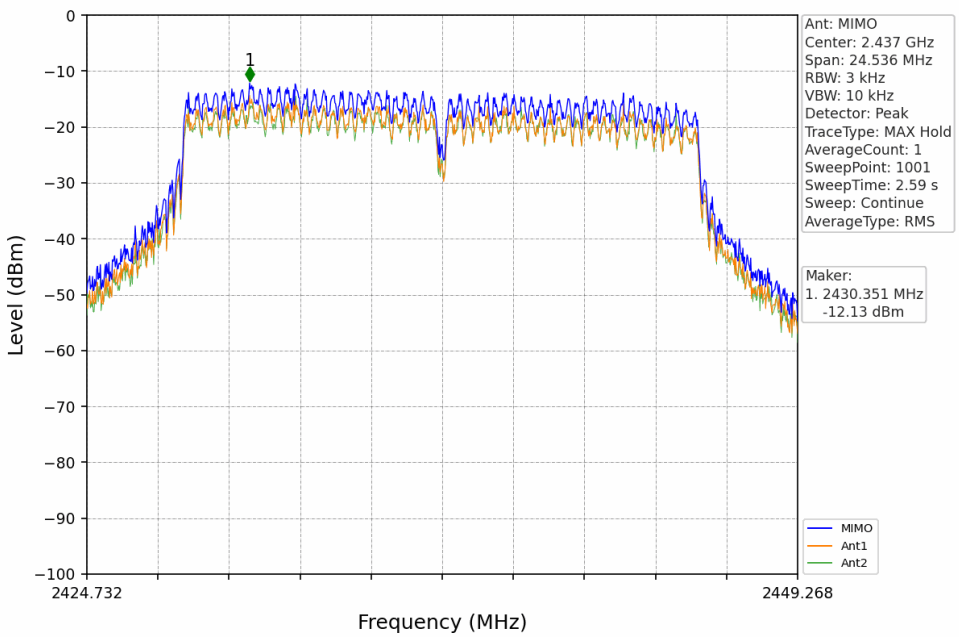
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



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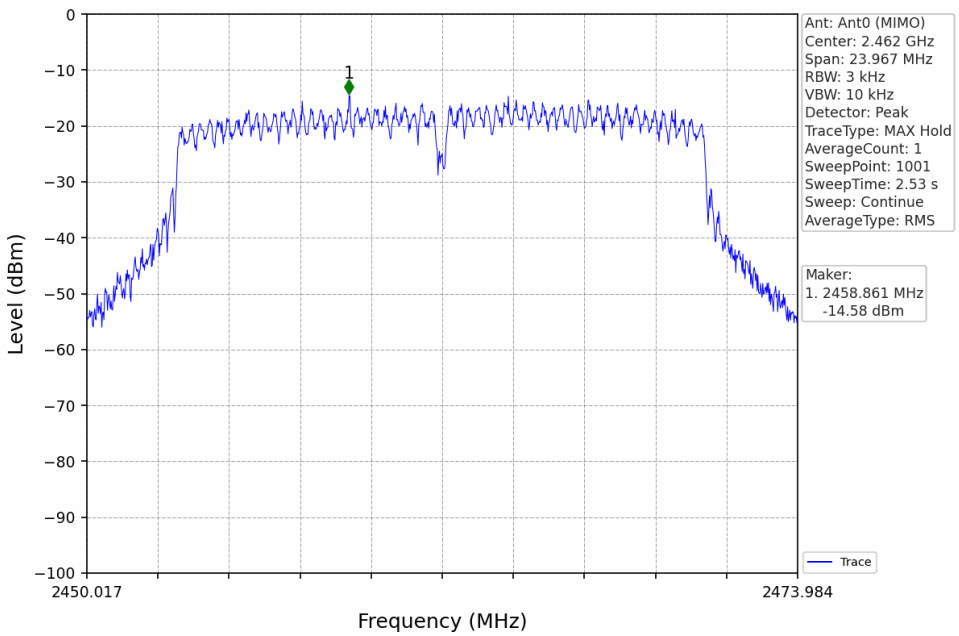
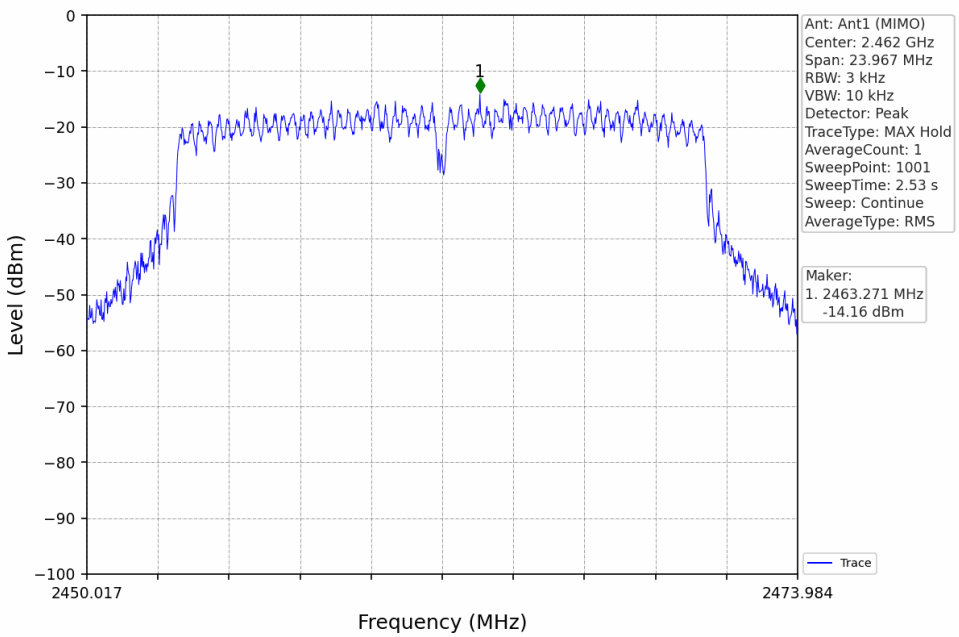
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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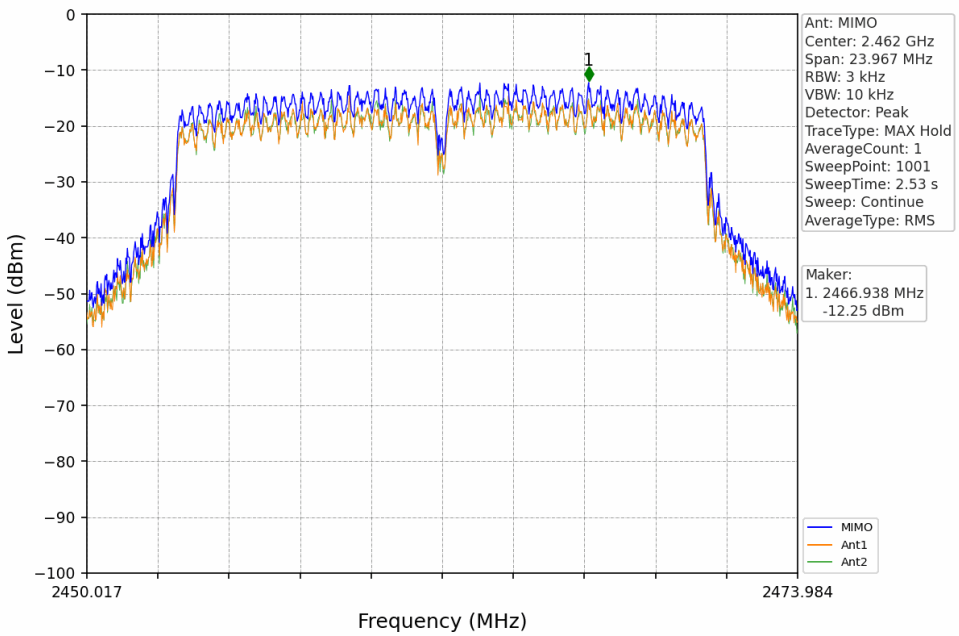
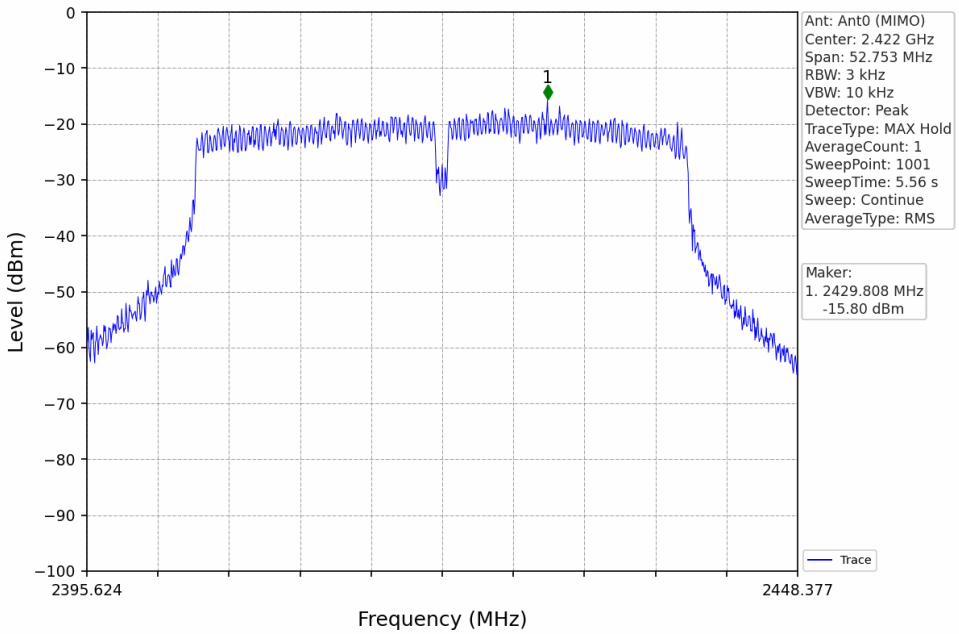
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



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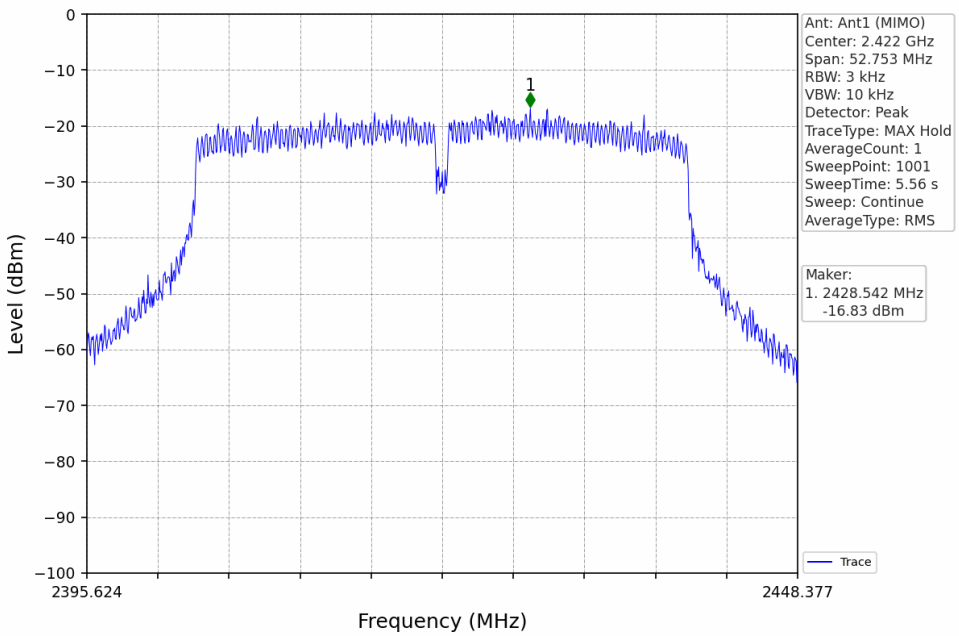
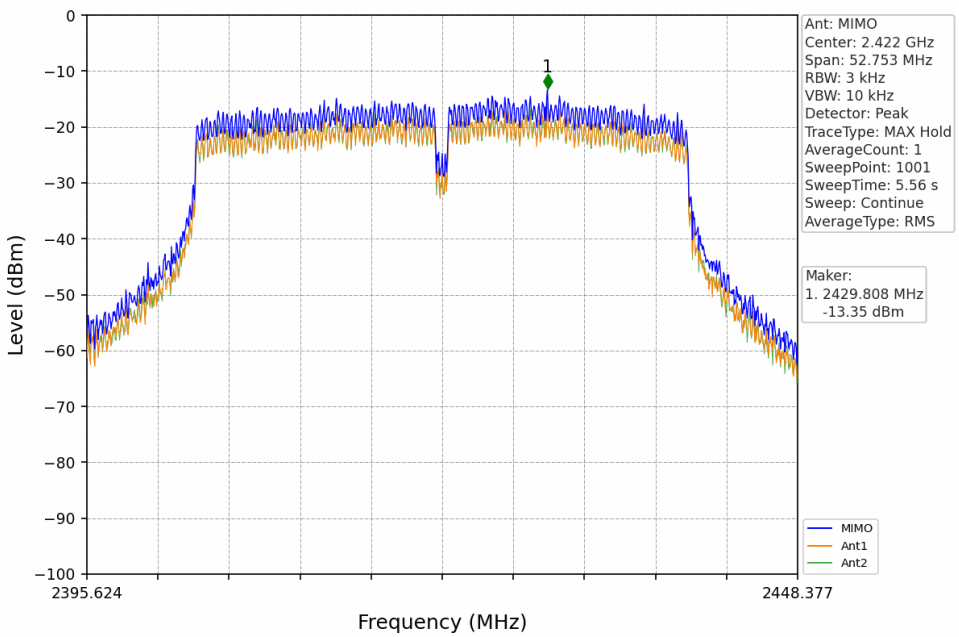
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_MIMO_NTNV



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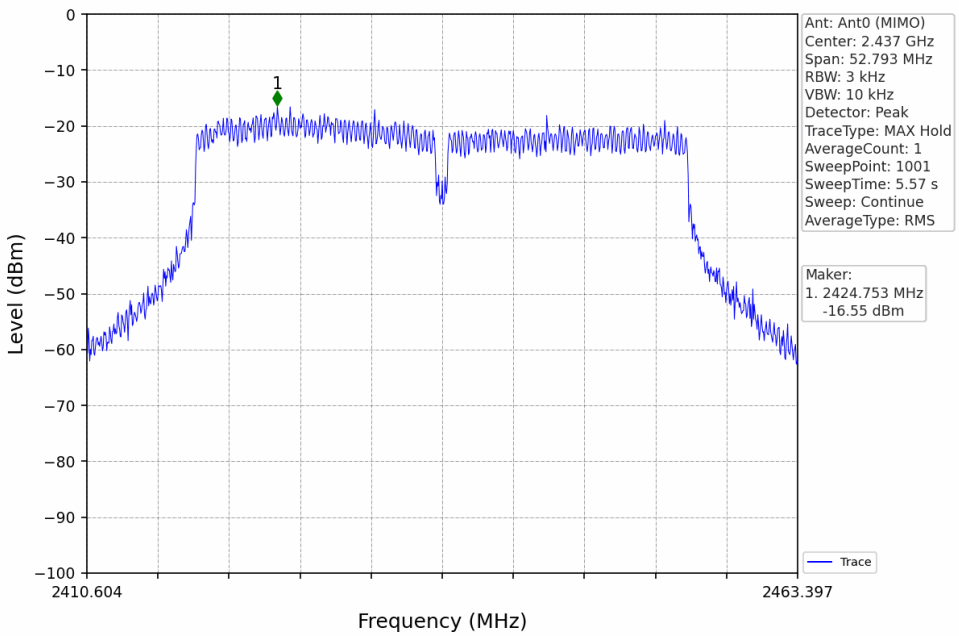
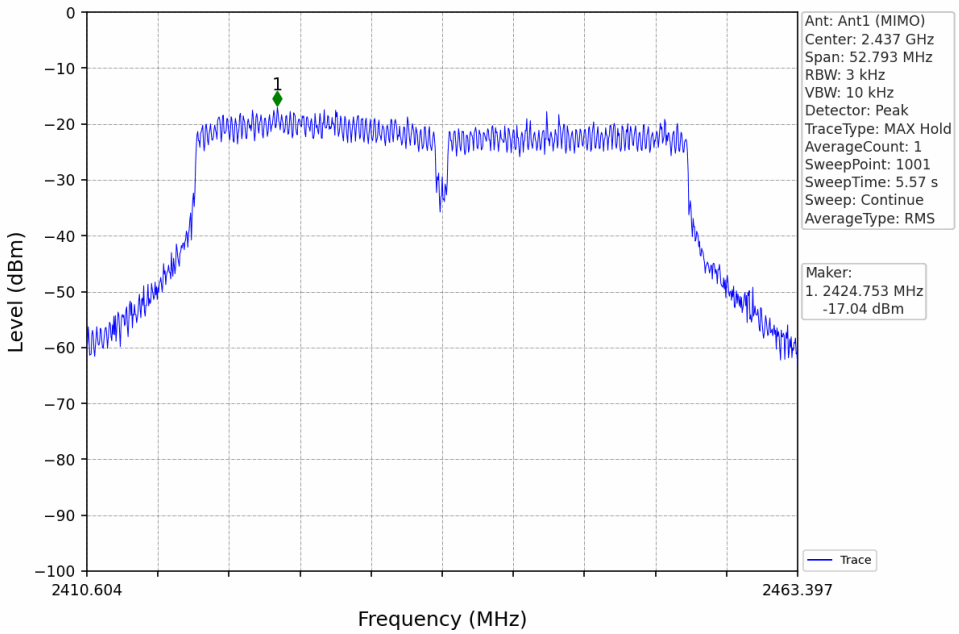
802.11n(HT40)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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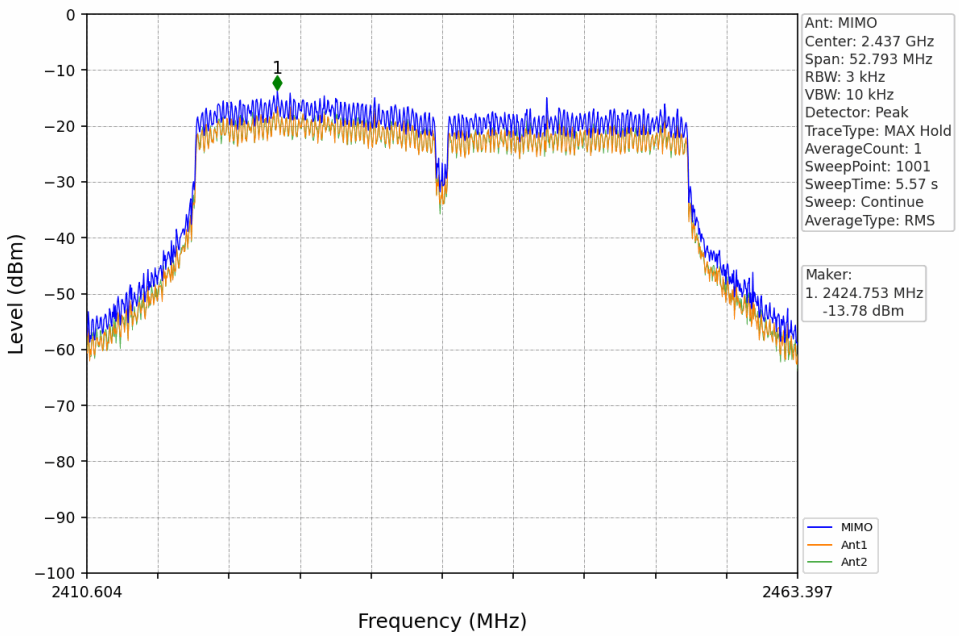
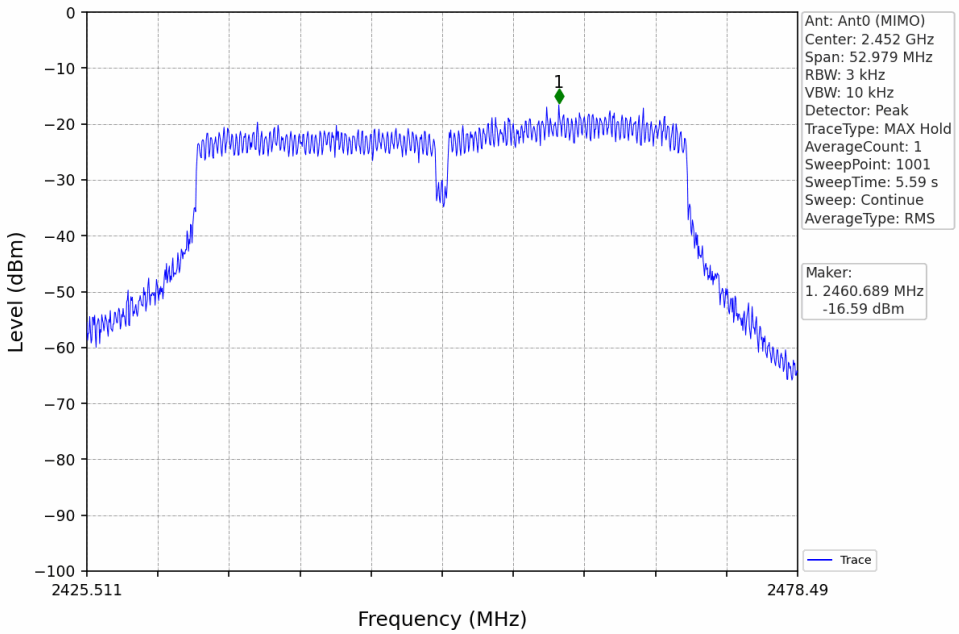
802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



802.11n(HT40)_HCH_2452MHz_Ant0 (MIMO)_NTNV



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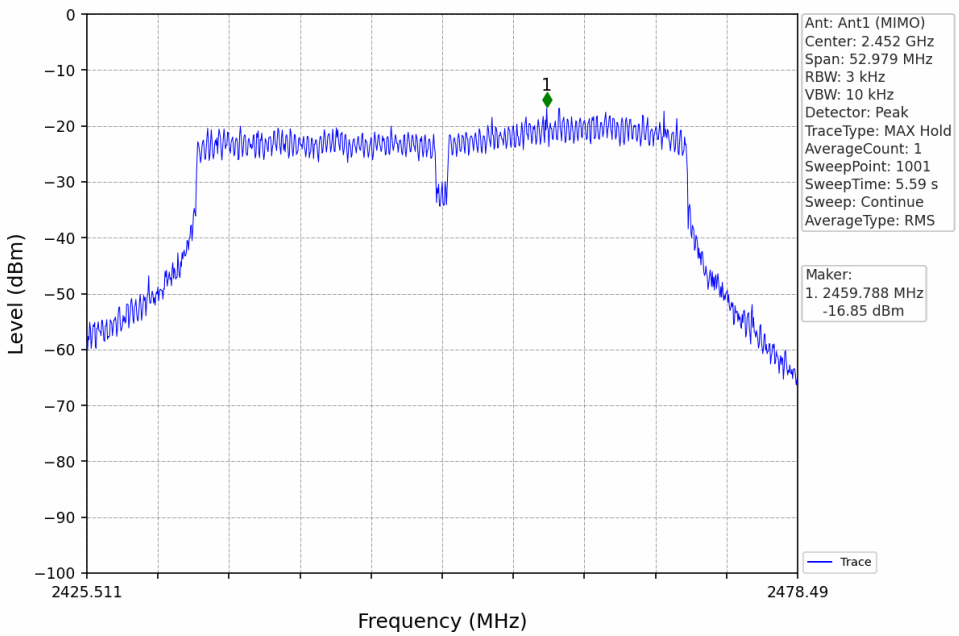
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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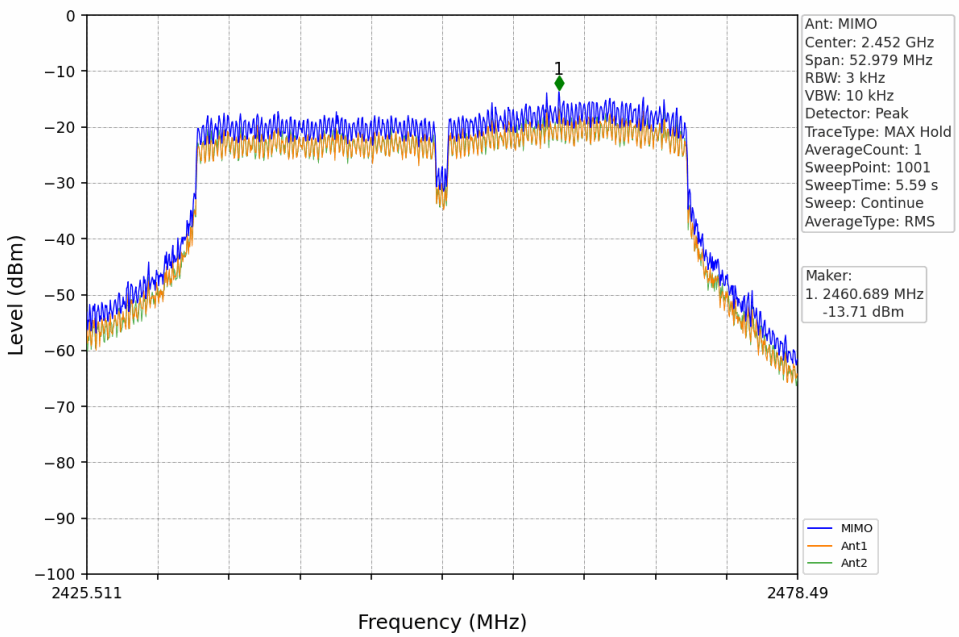

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	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

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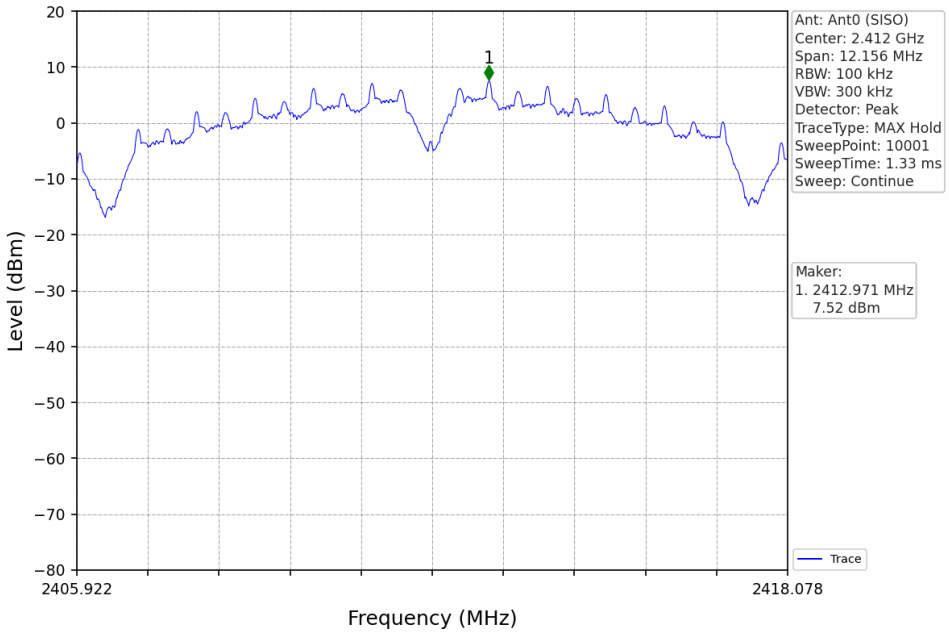
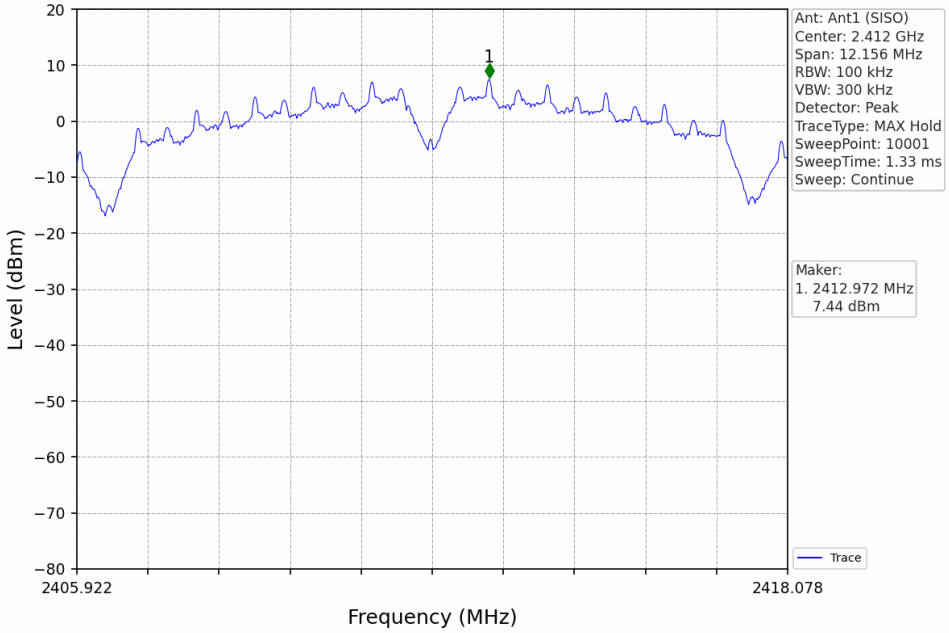
5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant0 (SISO)_NTNV



802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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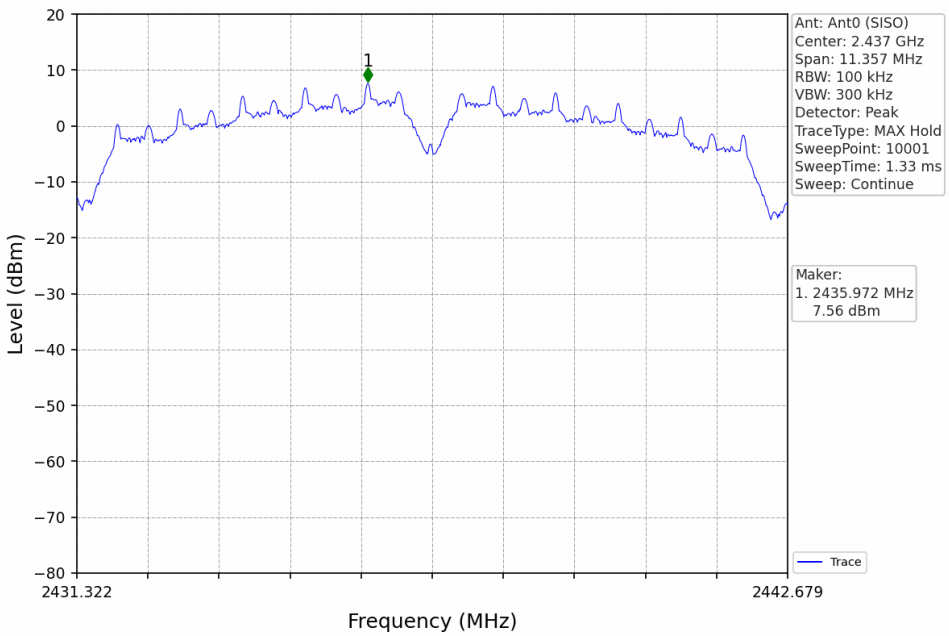
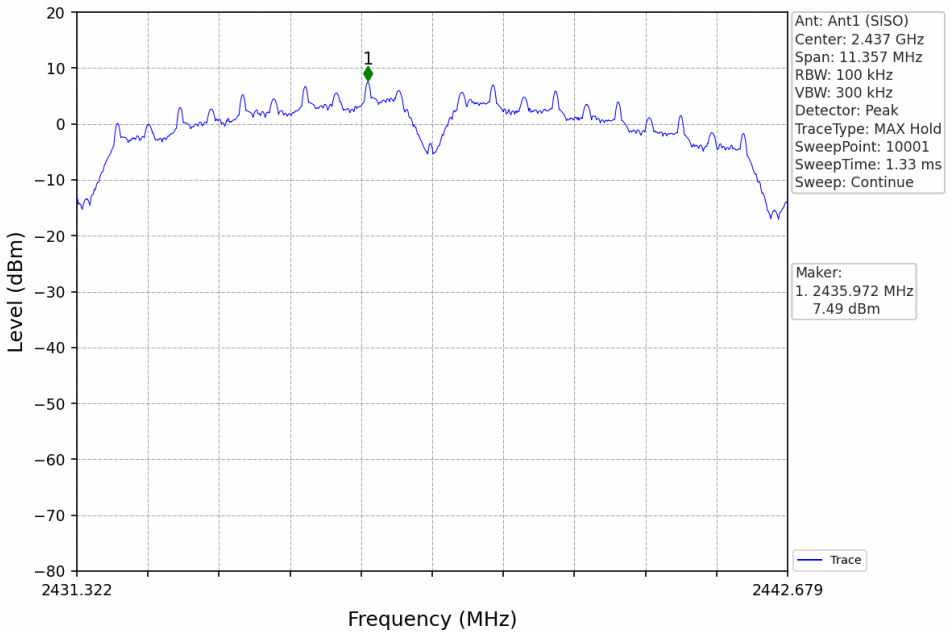
802.11b_MCH_2437MHz_Ant0 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



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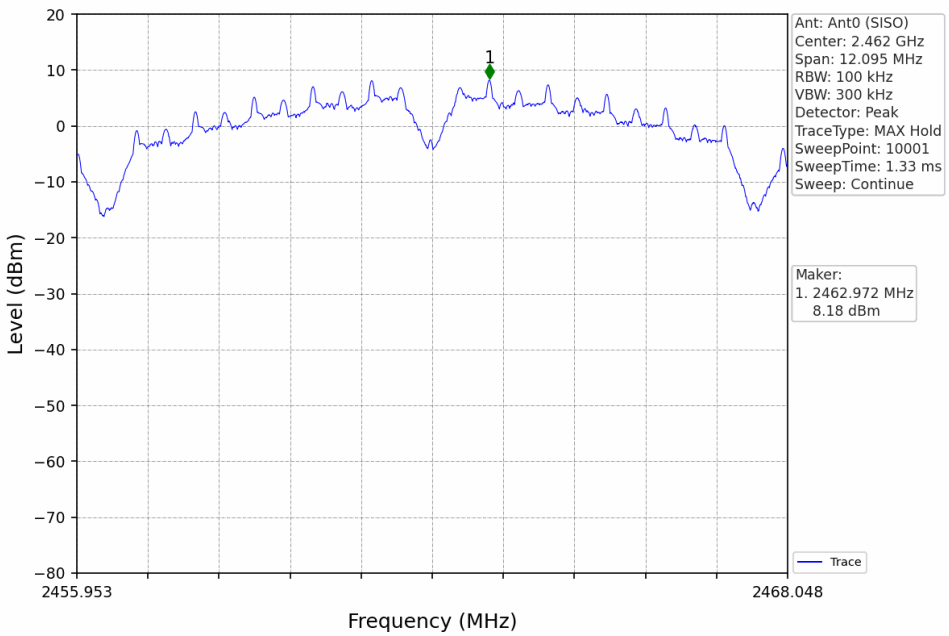
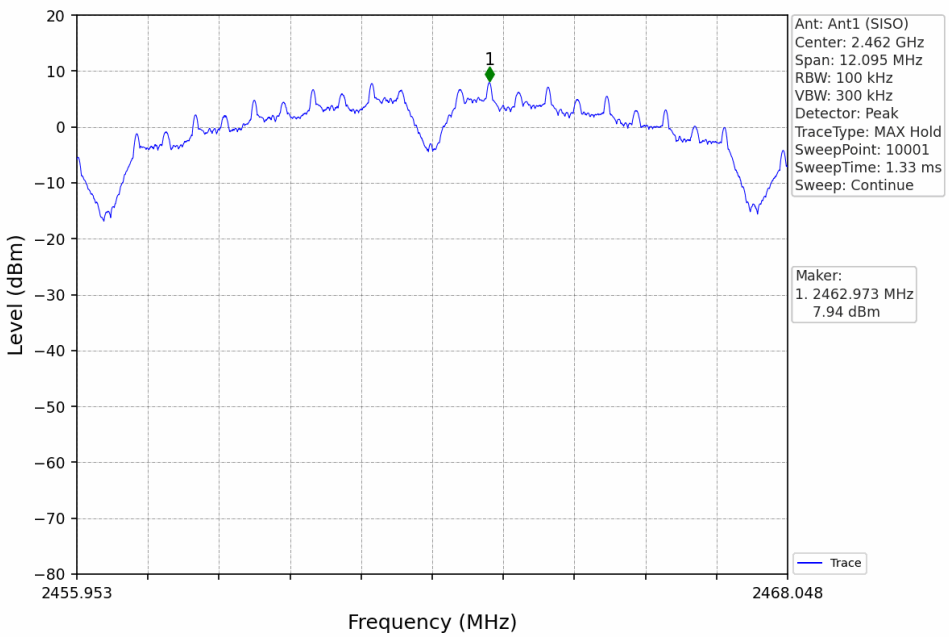
802.11b_HCH_2462MHz_Ant0 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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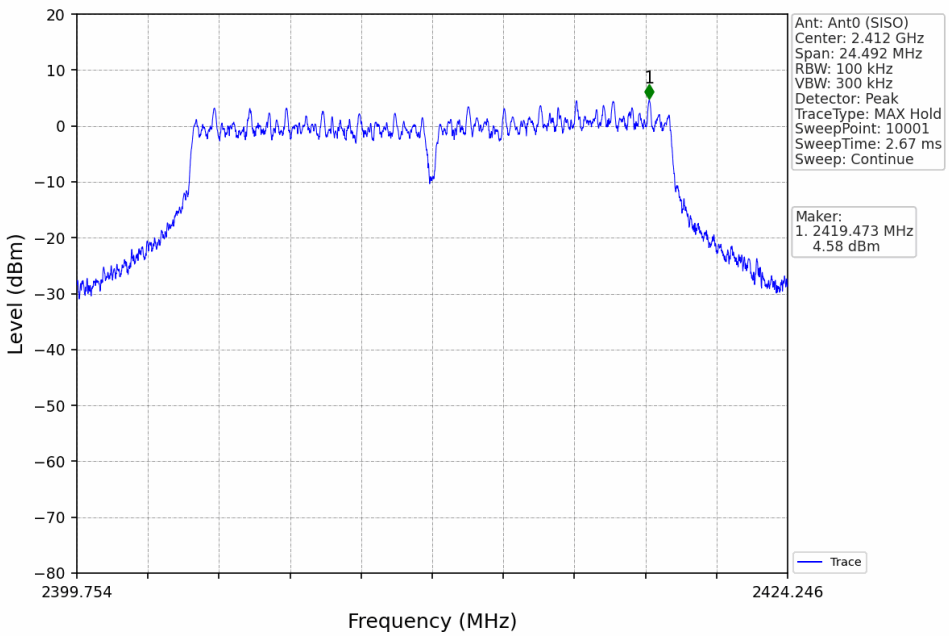
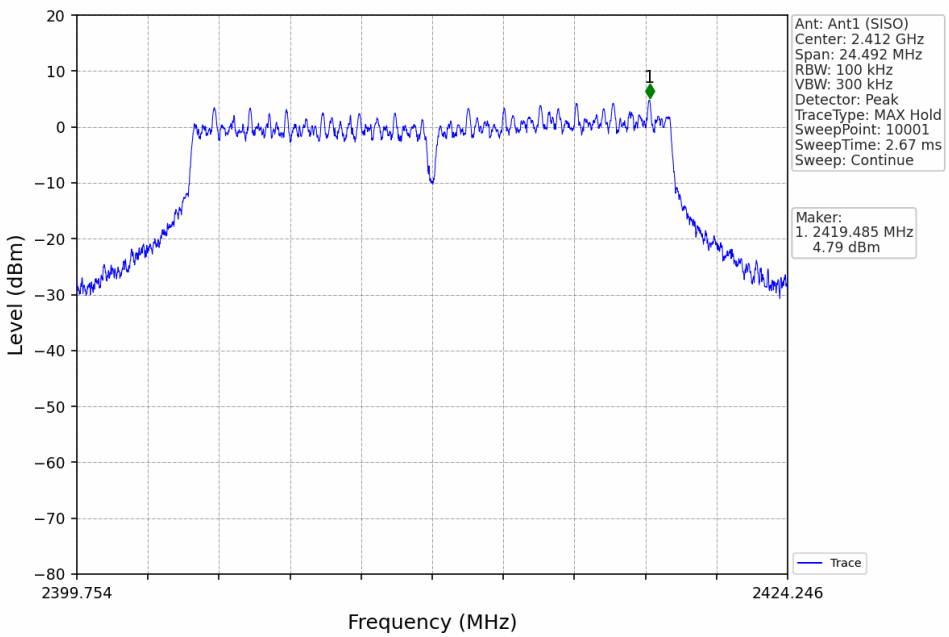
802.11g_LCH_2412MHz_Ant0 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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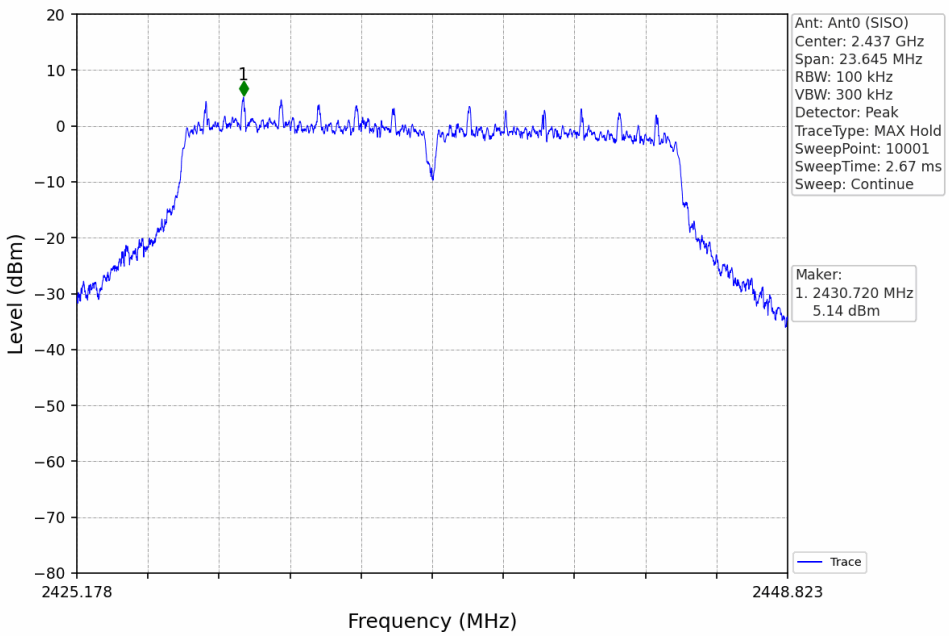

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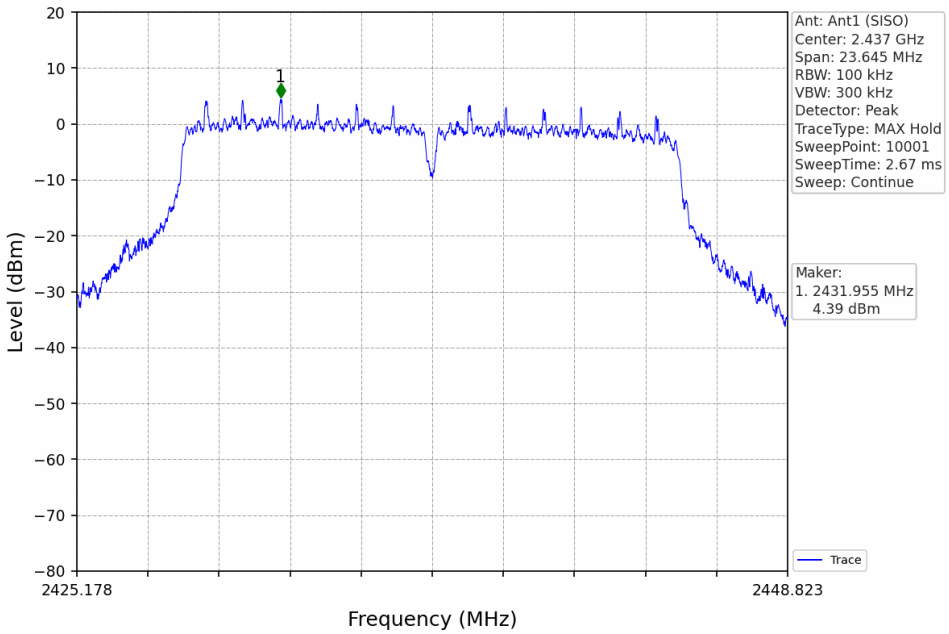

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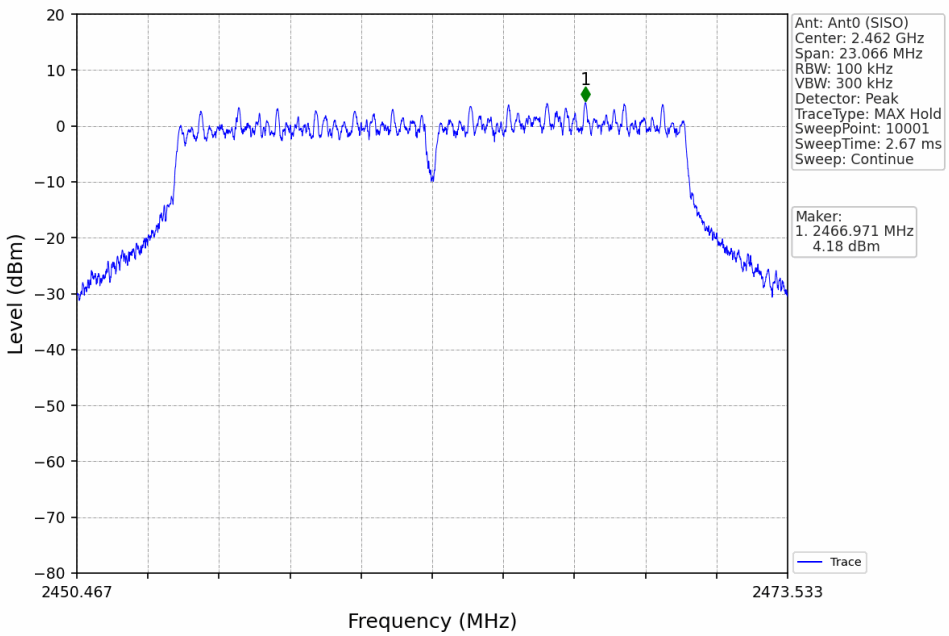

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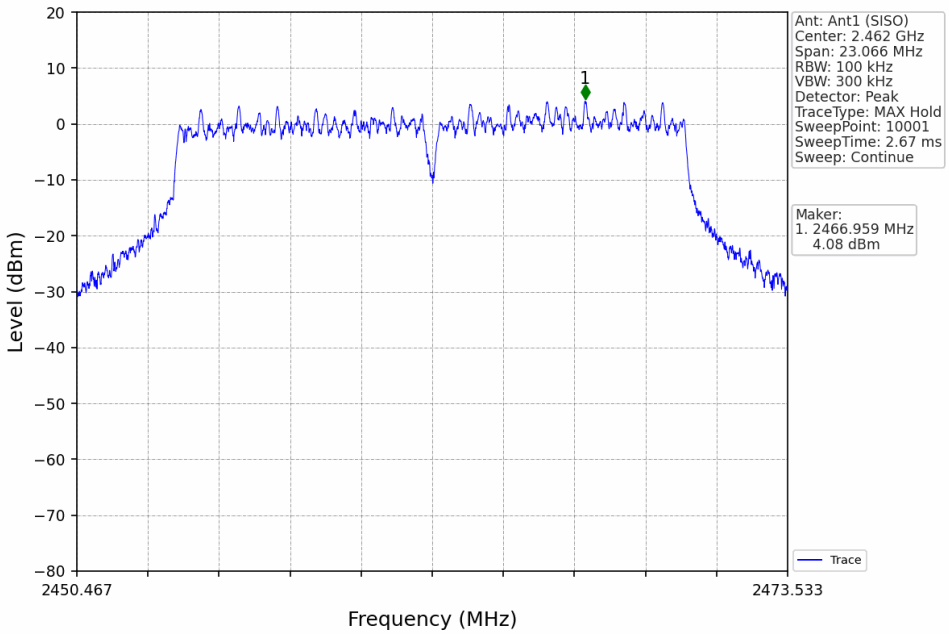

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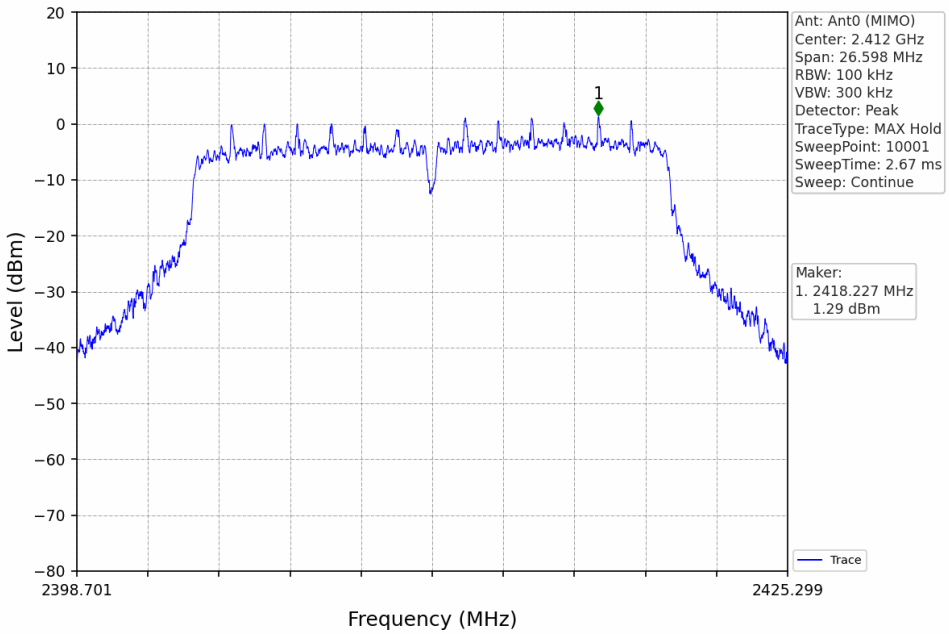
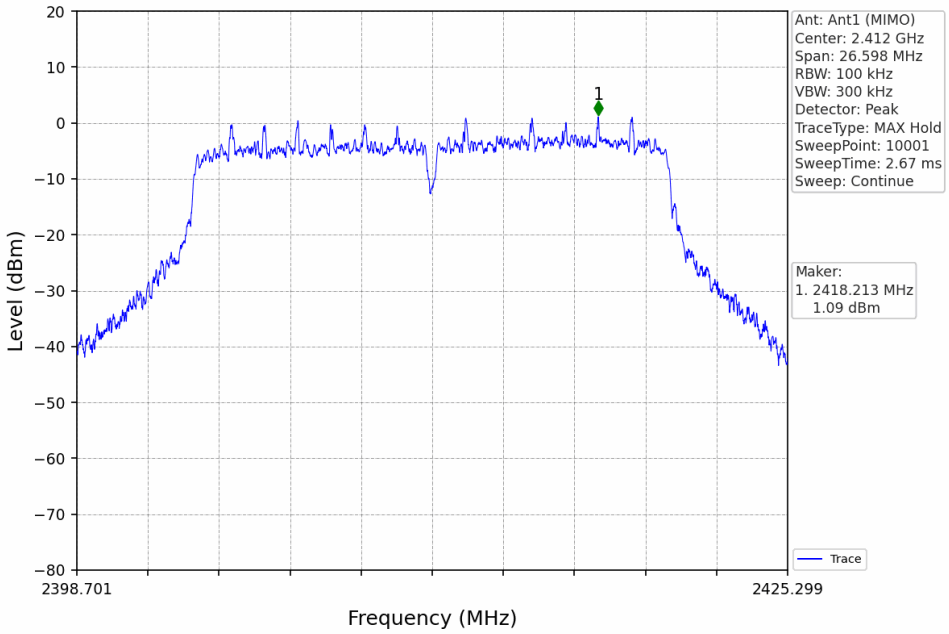
802.11n(HT20)_LCH_2412MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



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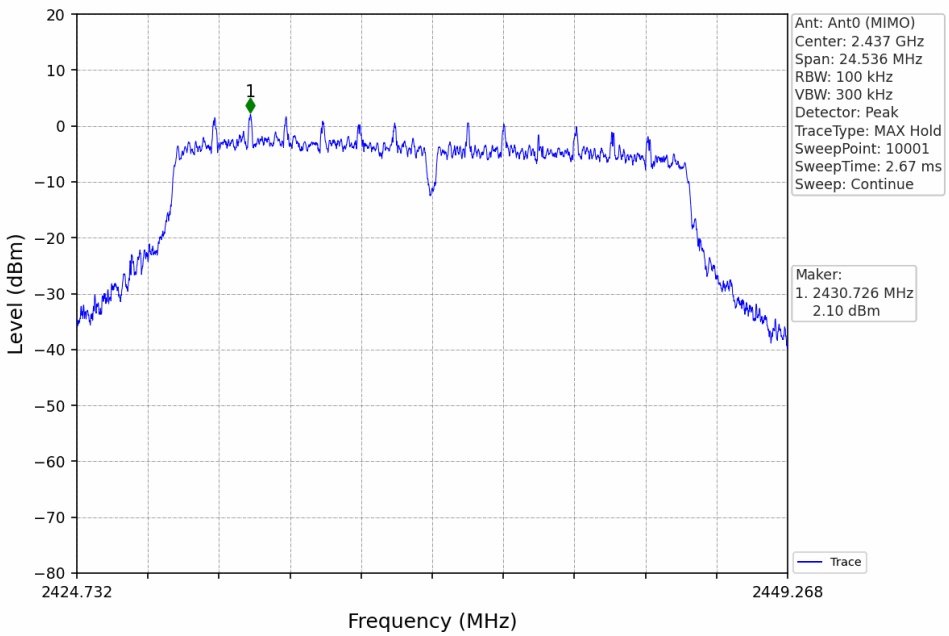
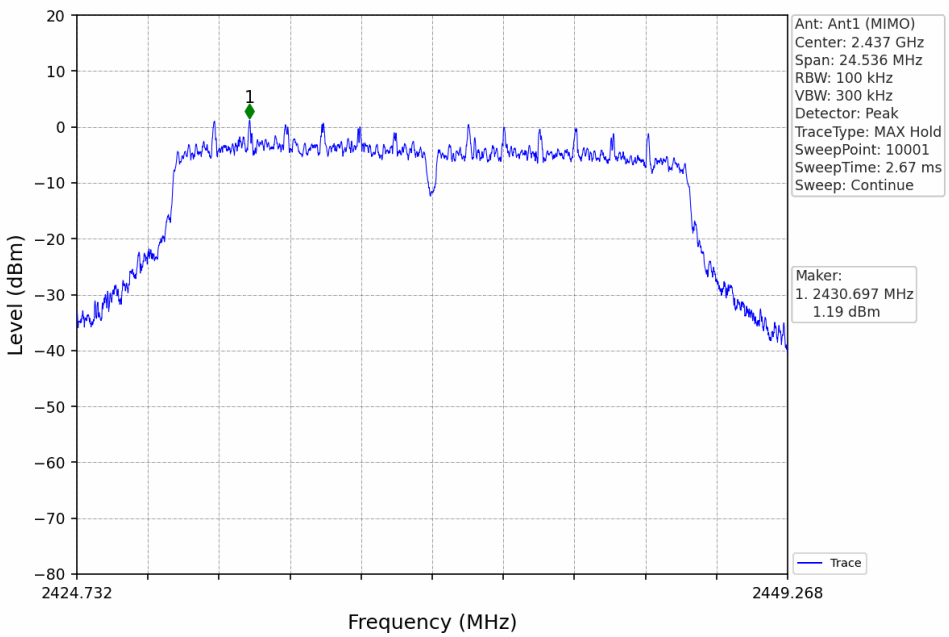
802.11n(HT20)_MCH_2437MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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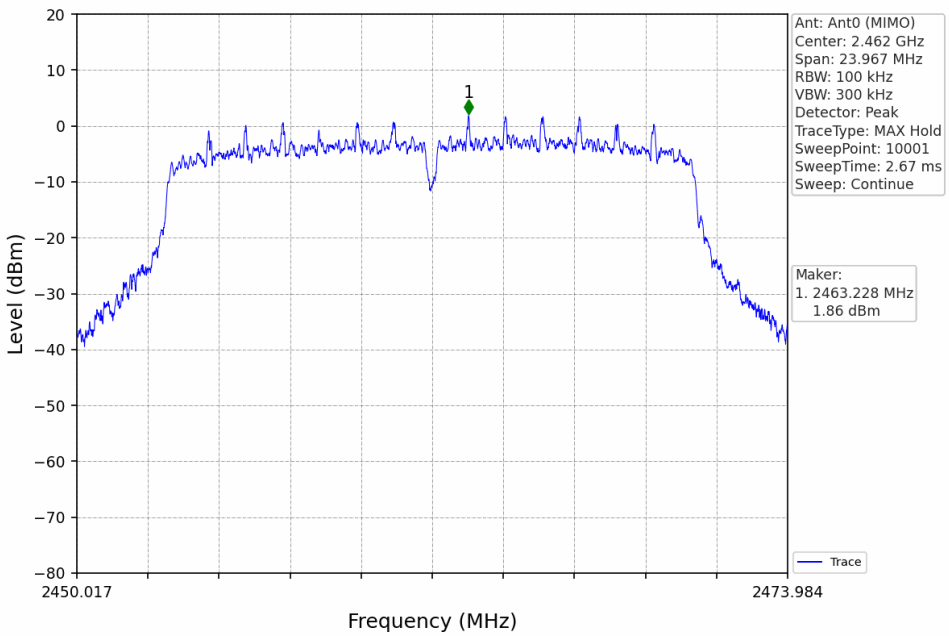
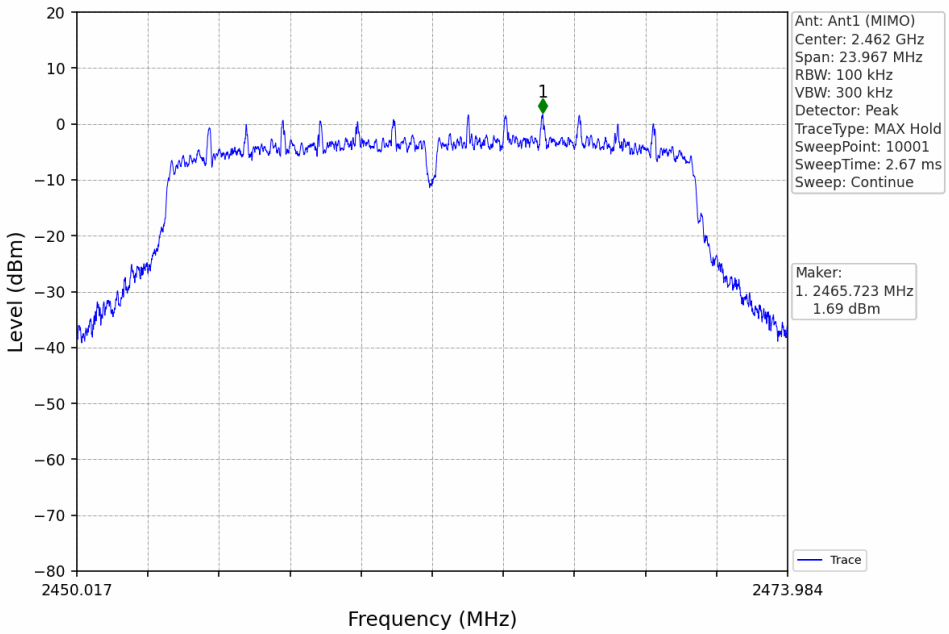
802.11n(HT20)_HCH_2462MHz_Ant0 (MIMO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



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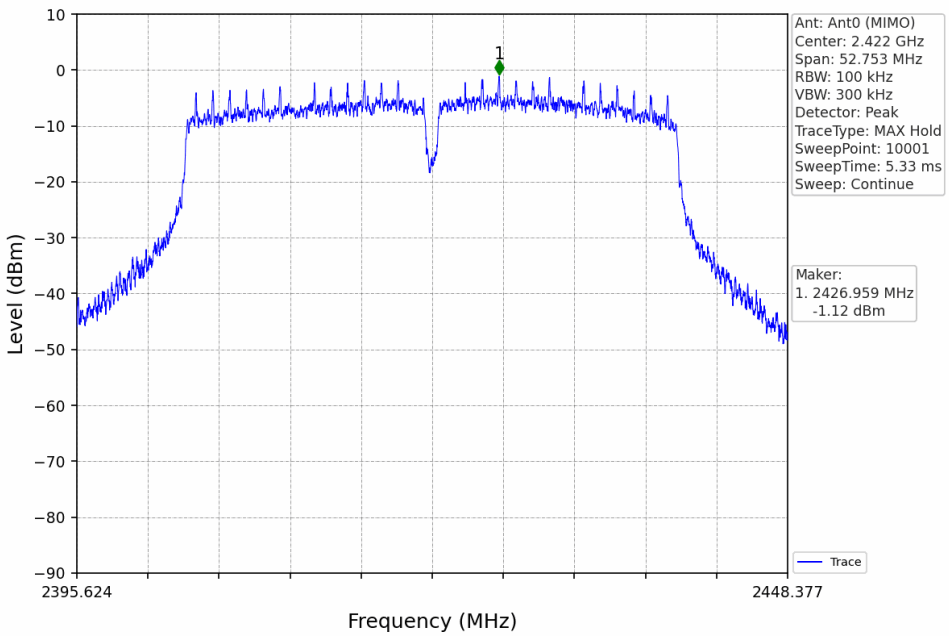
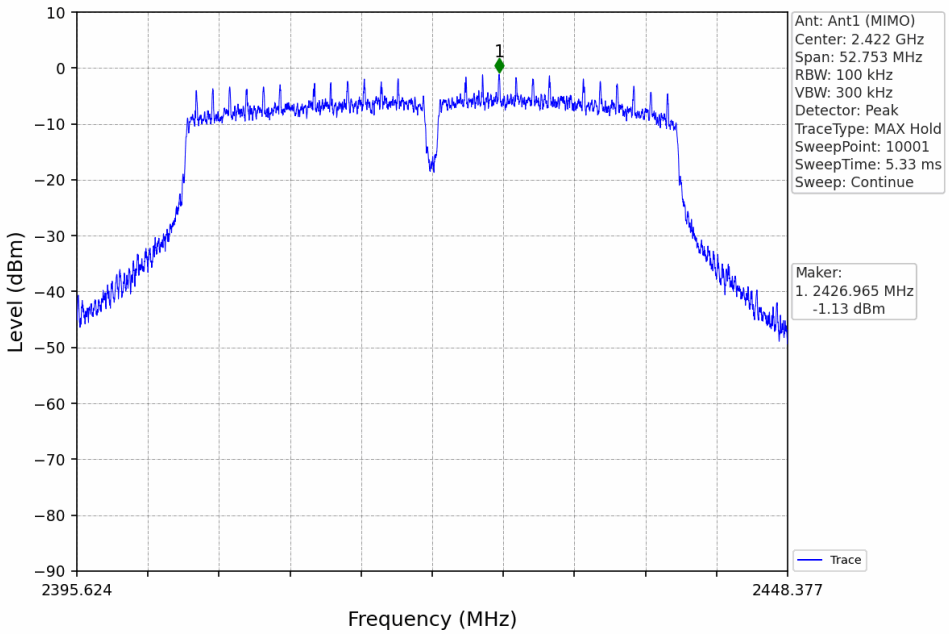
802.11n(HT40)_LCH_2422MHz_Ant0 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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