

10 Appendix

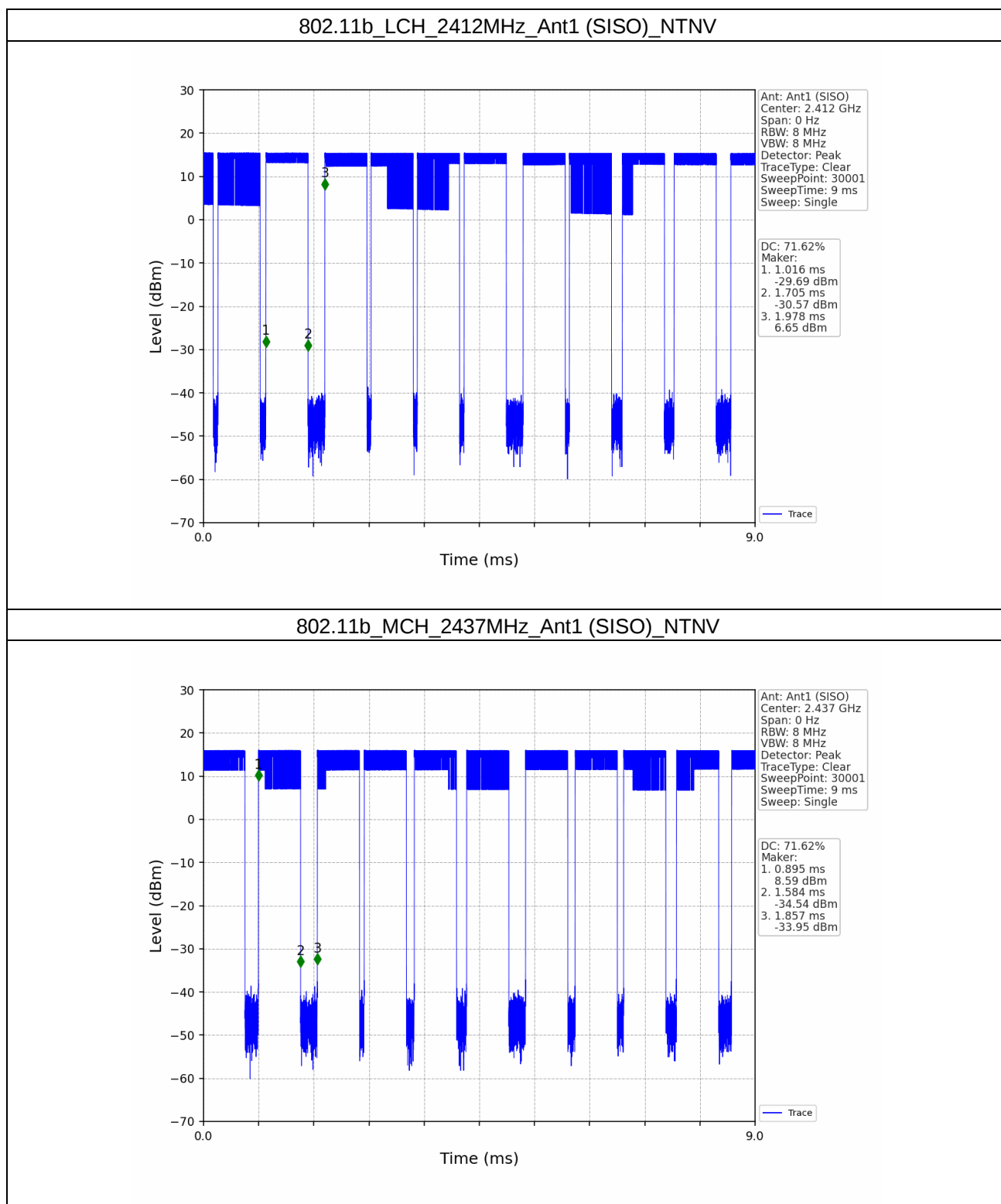
1. Duty Cycle

1.1 Ant1

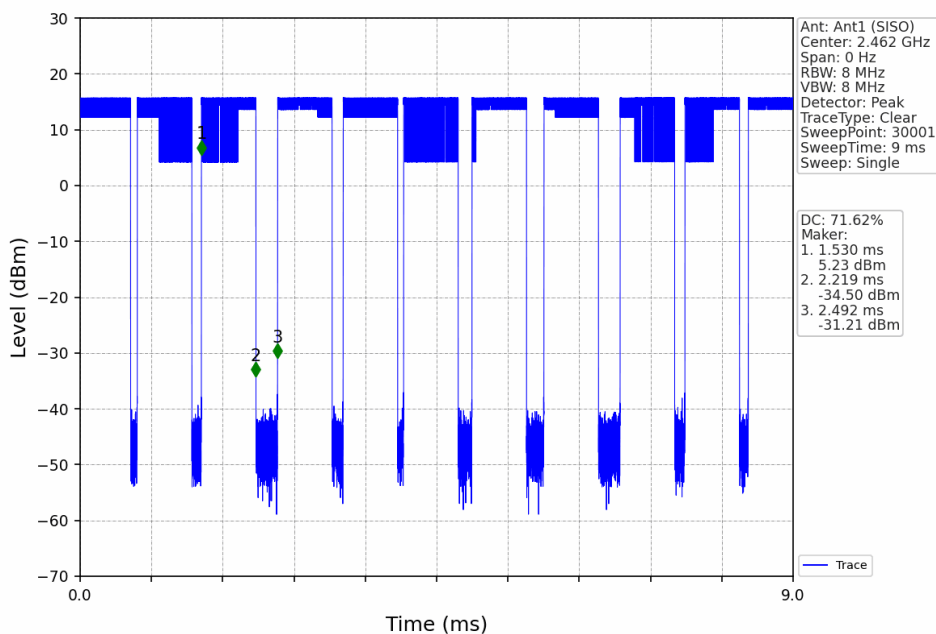
1.1.1 Test Result

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	0.689	0.962	71.62	1.45	19.67
		2437	/	/	0.689	0.962	71.62	1.45	18.58
		2462	/	/	0.689	0.962	71.62	1.45	18.54
802.11g	SISO	2412	/	/	1.976	2.155	91.69	0.38	4.86
		2437	/	/	1.976	2.155	91.69	0.38	4.86
		2462	/	/	1.976	2.146	92.08	0.36	4.01
802.11n (HT20)	MIMO	2412	/	/	5.406	5.583	96.83	0.14	1.92
		2437	/	/	5.362	5.530	96.96	0.13	1.71
		2462	/	/	5.360	5.540	96.75	0.14	1.96
802.11n (HT40)	MIMO	2422	/	/	5.374	5.514	97.46	0.11	1.14
		2437	/	/	5.374	5.506	97.60	0.11	1.11
		2452	/	/	5.374	5.542	96.97	0.13	1.64
802.11ax (HEW20)	MIMO	2412	RU242	Left	5.308	5.486	96.76	0.14	1.94
		2437	RU242	Left	5.309	5.451	97.39	0.11	1.28
		2462	RU242	Left	5.309	5.487	96.76	0.14	1.95
802.11ax (HEW40)	MIMO	2422	RU484	Left	5.418	5.596	96.82	0.14	1.91
		2437	RU484	Left	5.418	5.560	97.45	0.11	1.14
		2452	RU484	Left	5.418	5.578	97.13	0.13	1.59

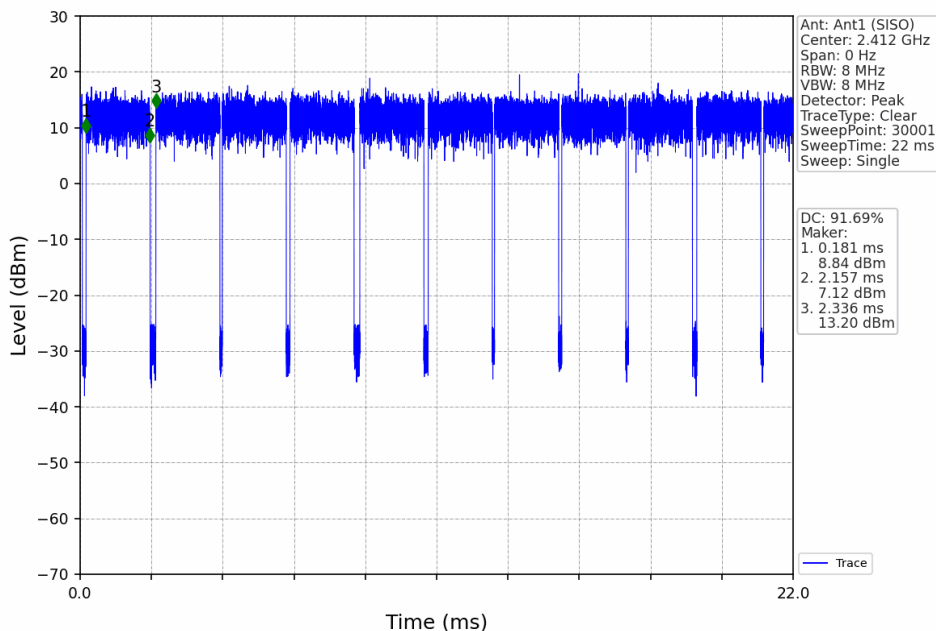
1.1.2 Test Graph



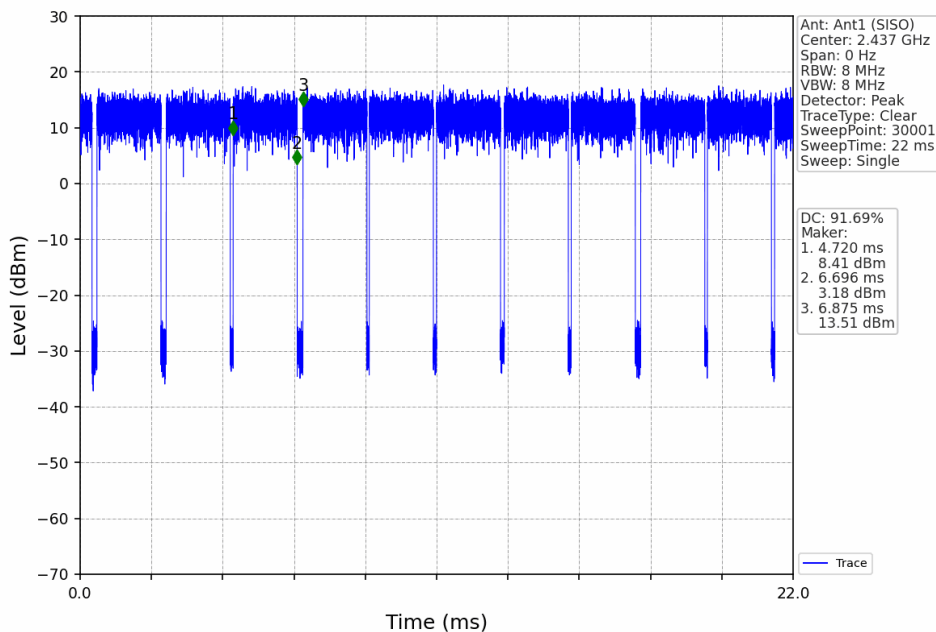
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



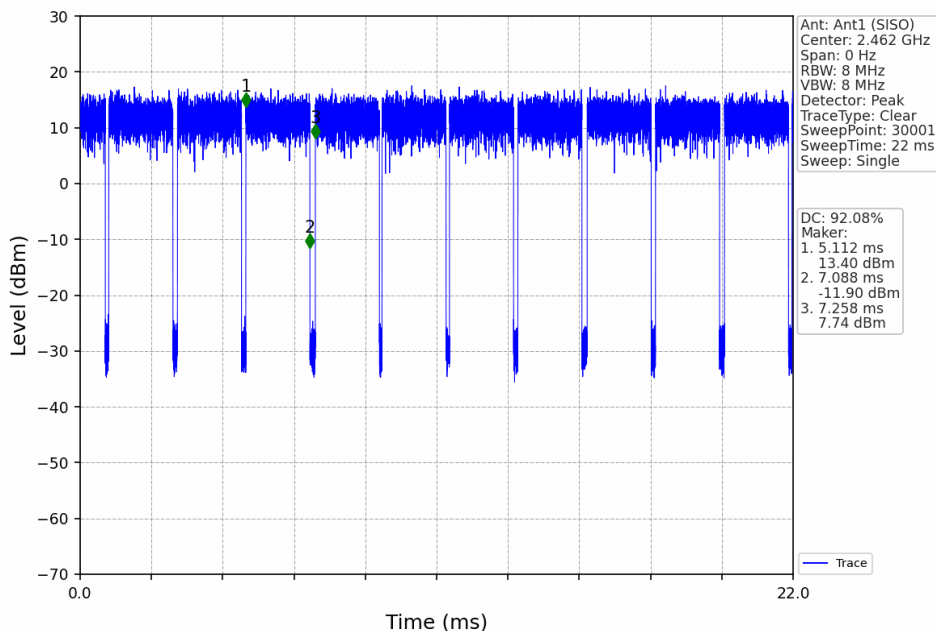
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



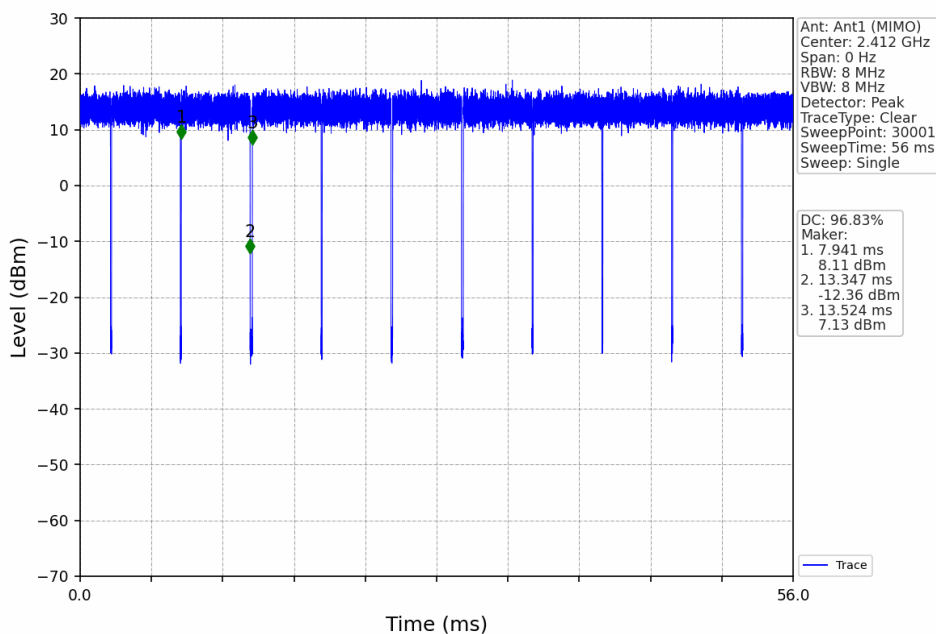
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



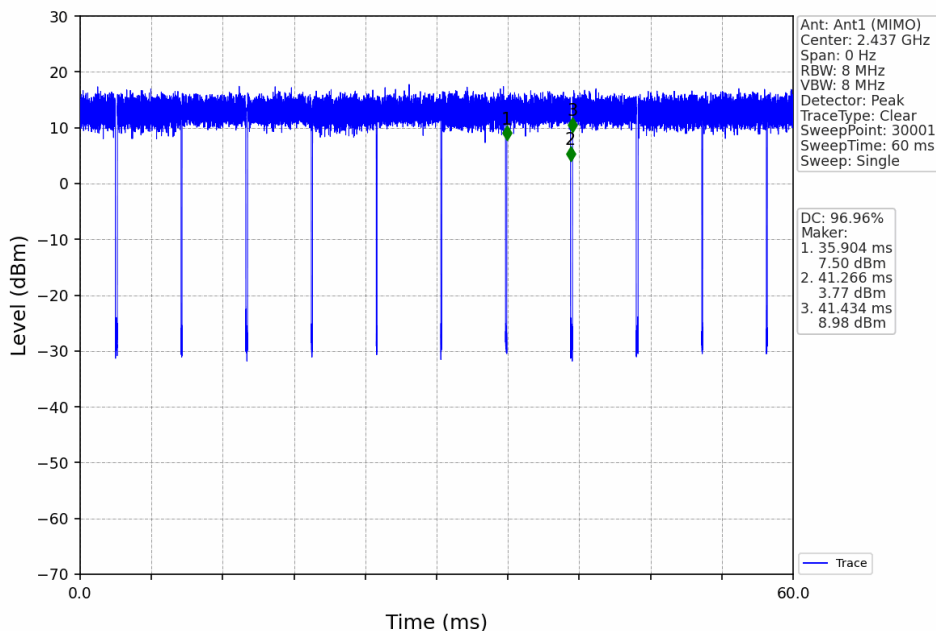
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

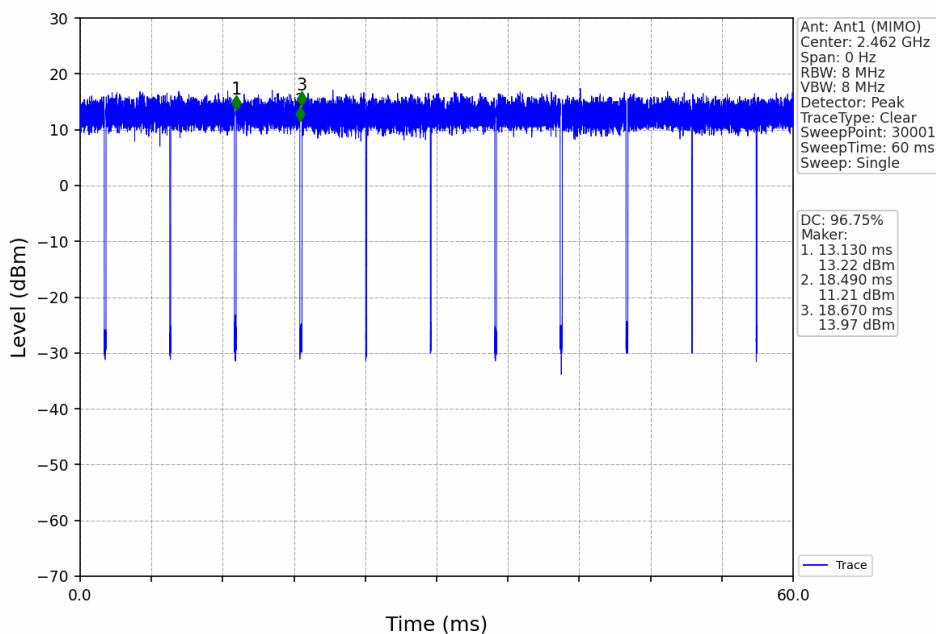


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

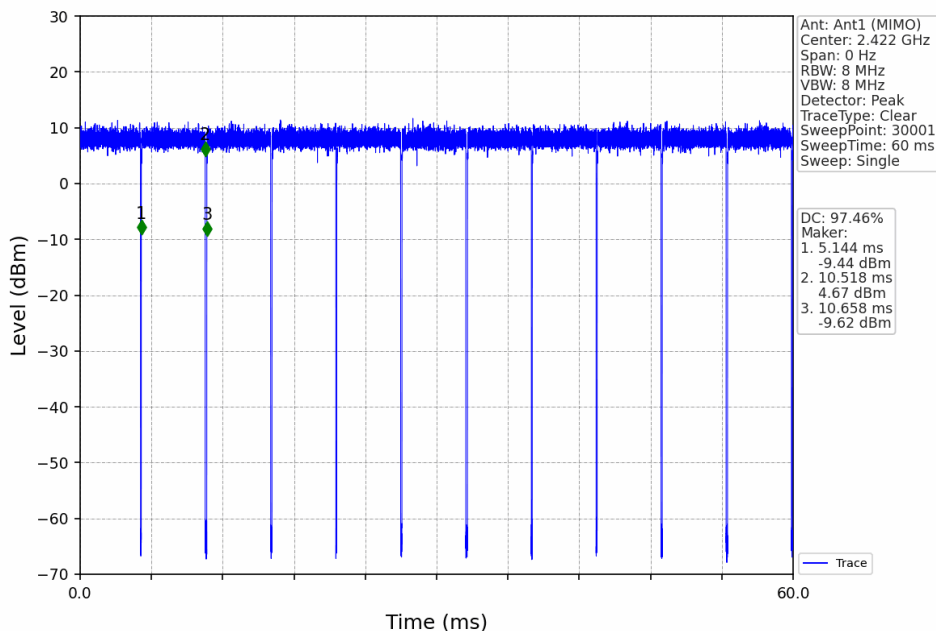


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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV

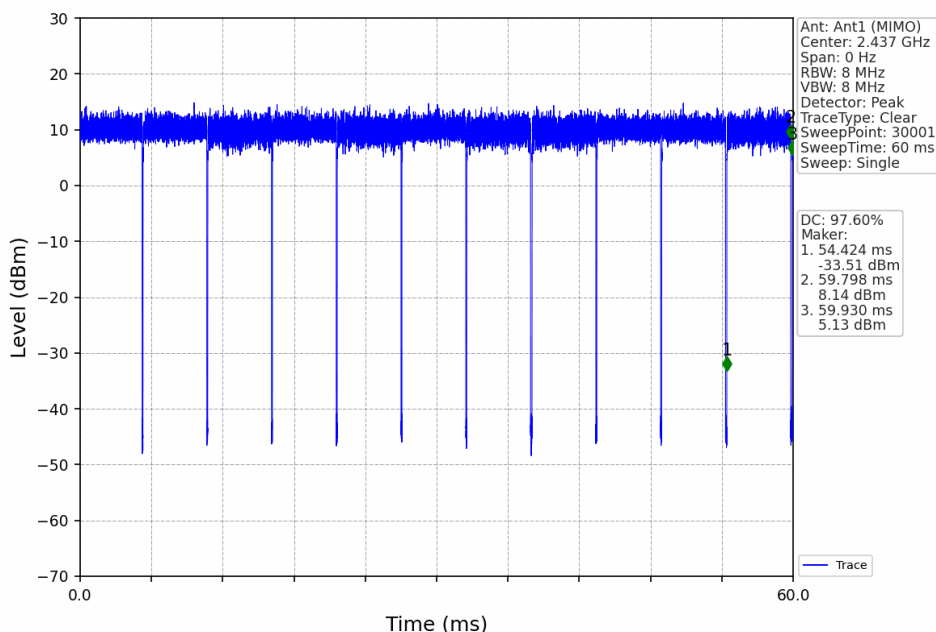


802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV

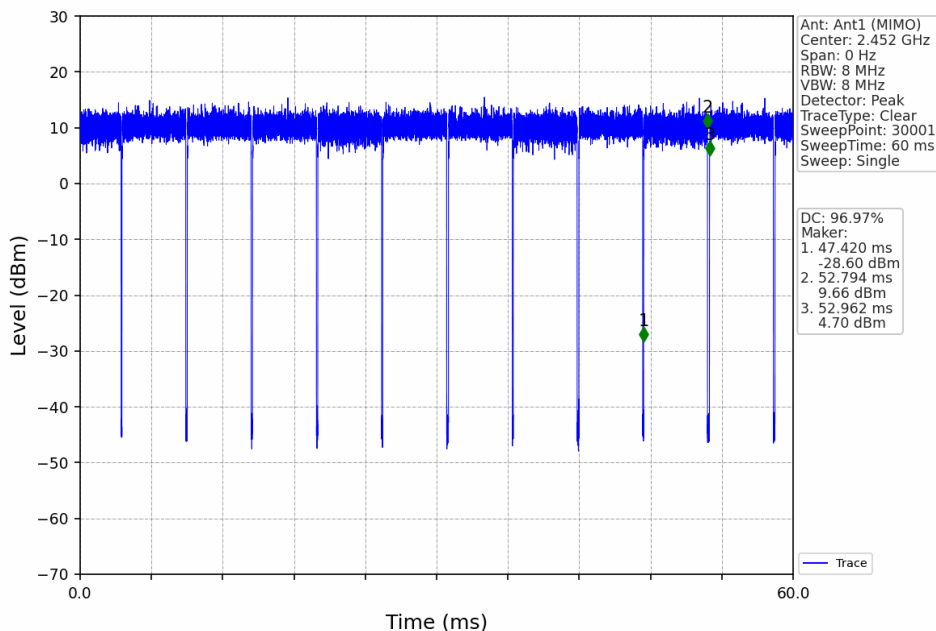


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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV

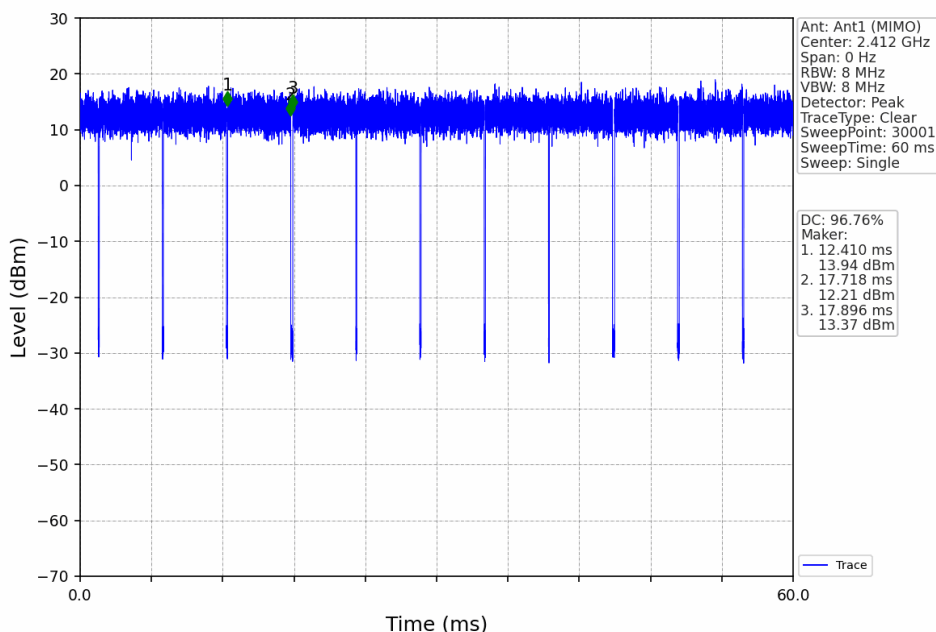


802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

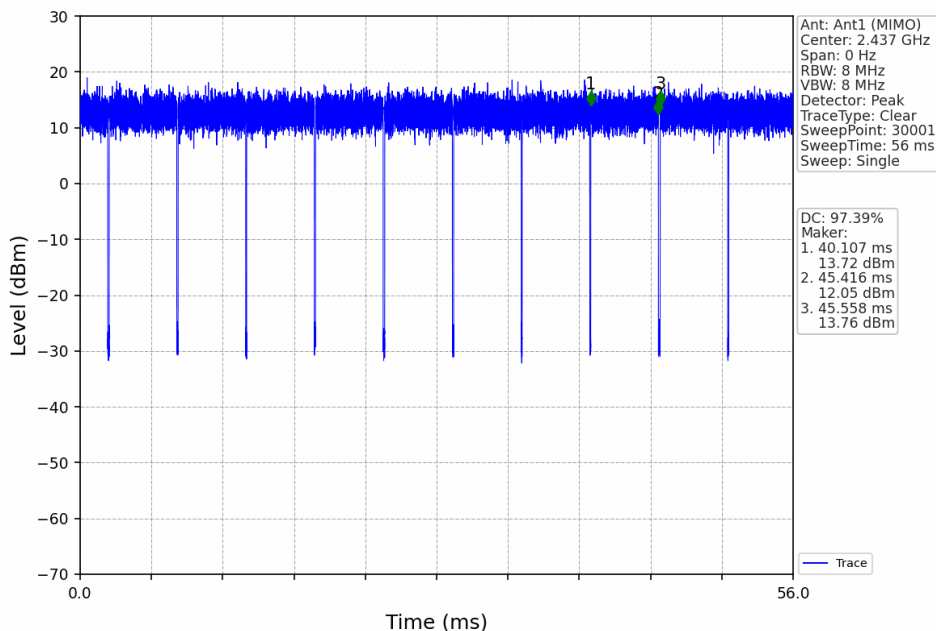


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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV

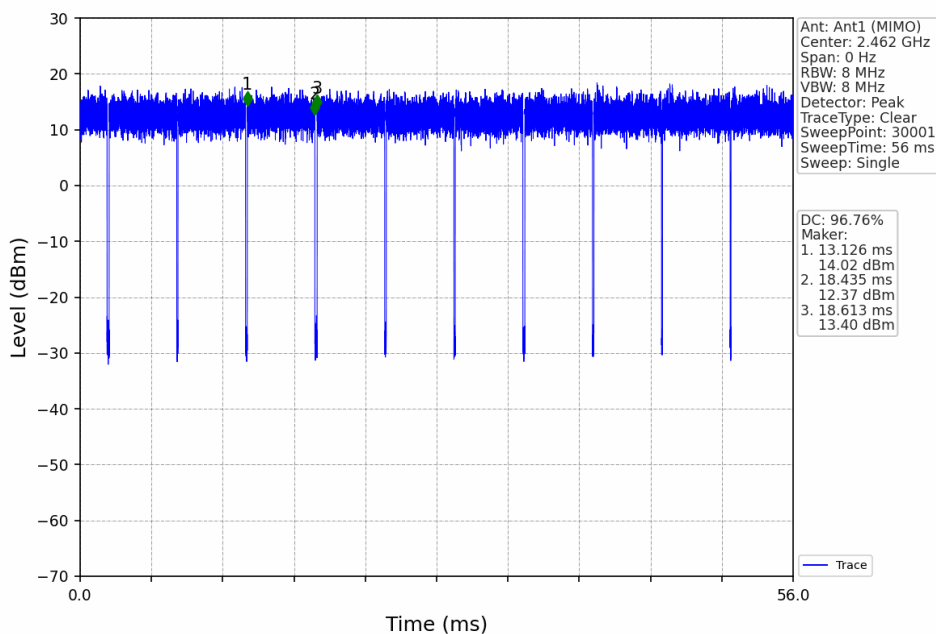


802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV

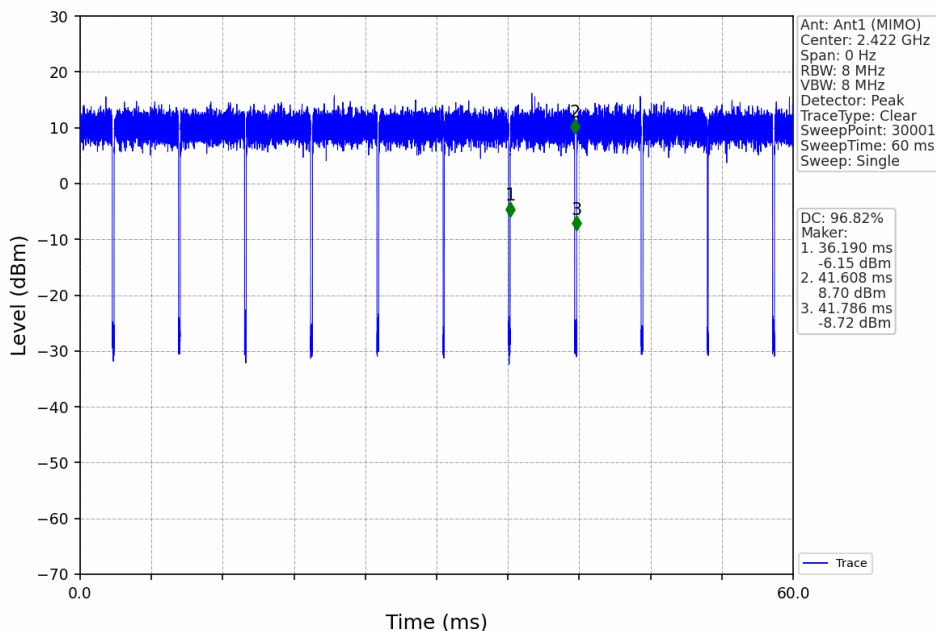


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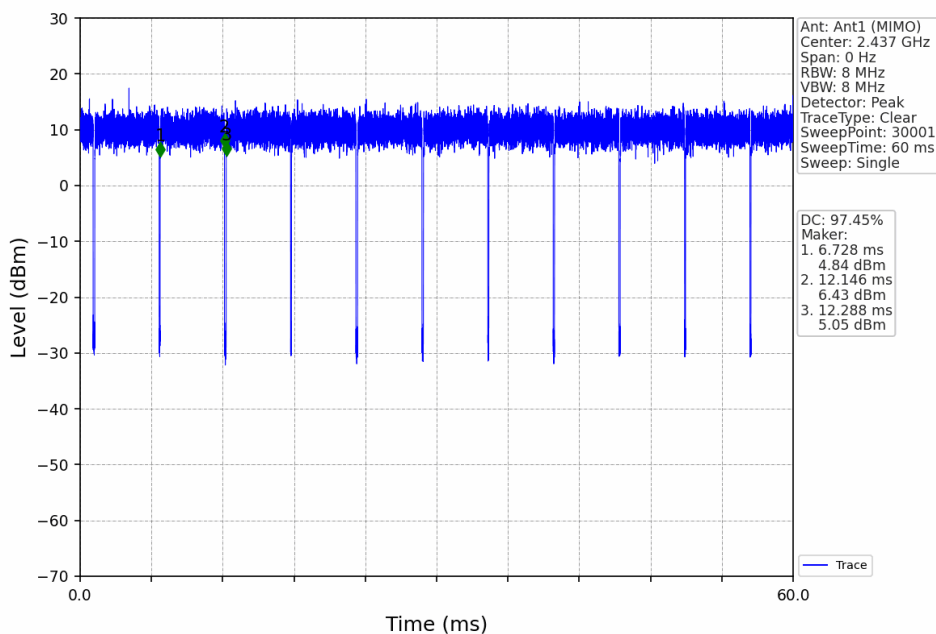
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



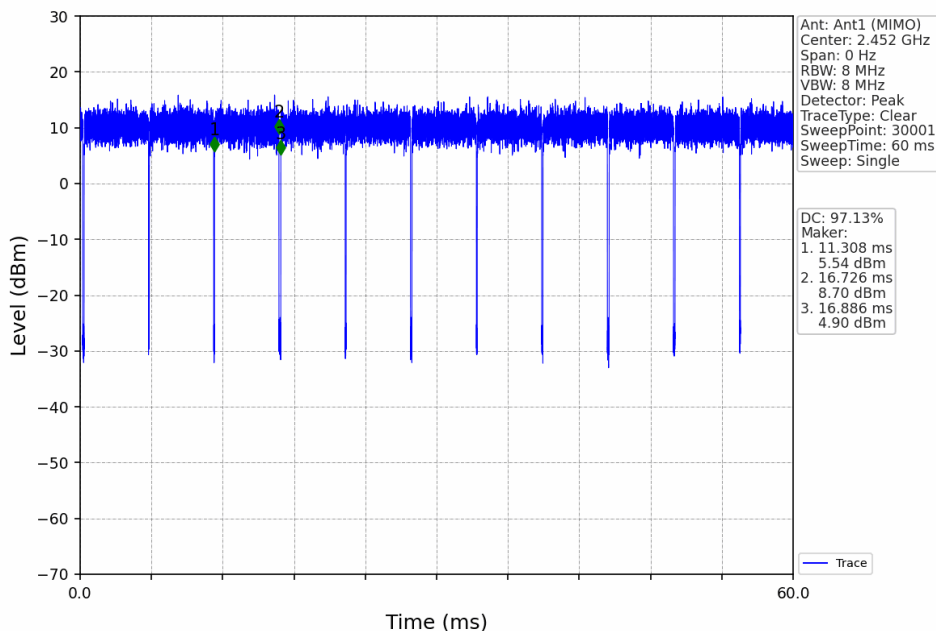
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



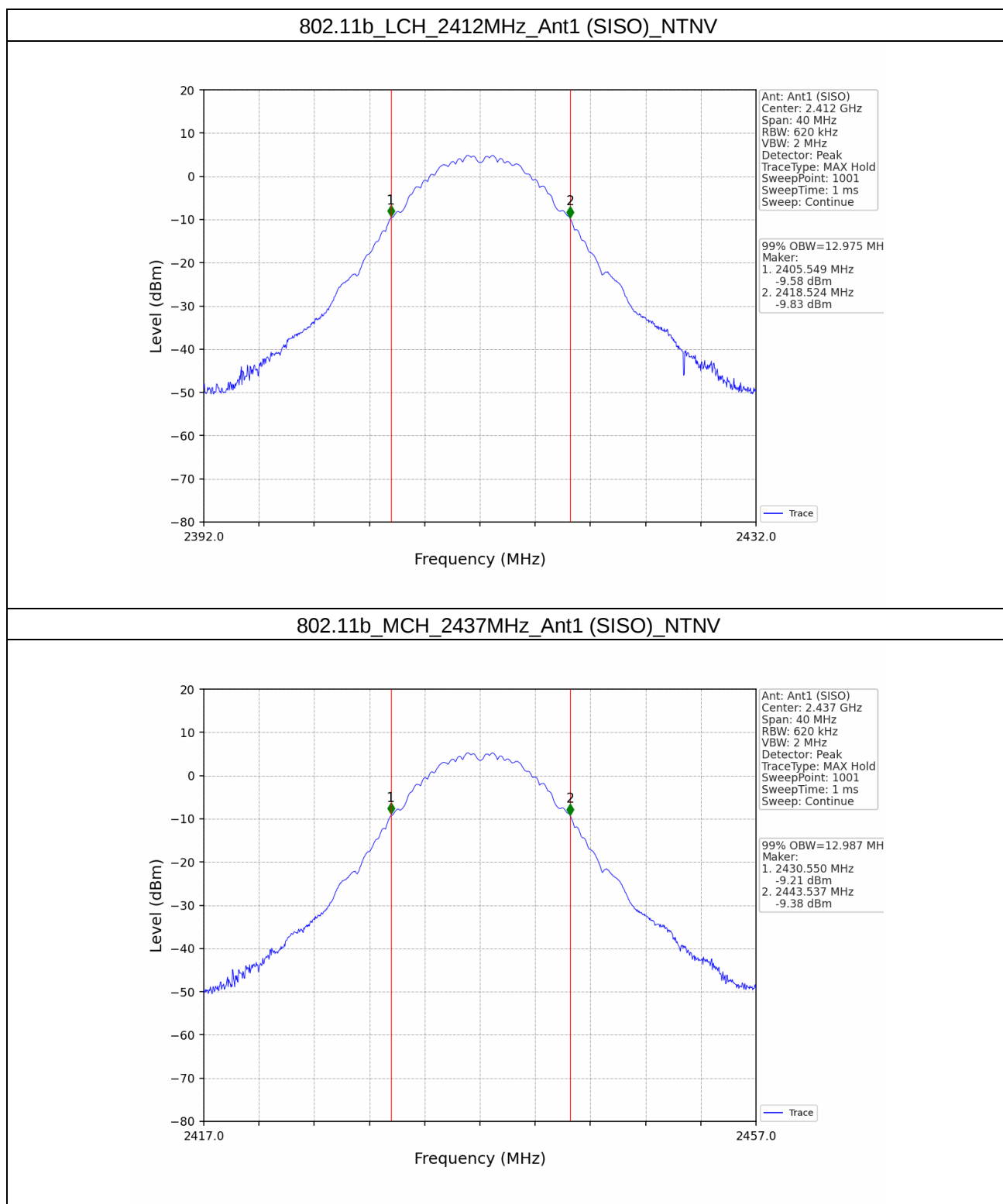
2. Bandwidth

2.1 OBW

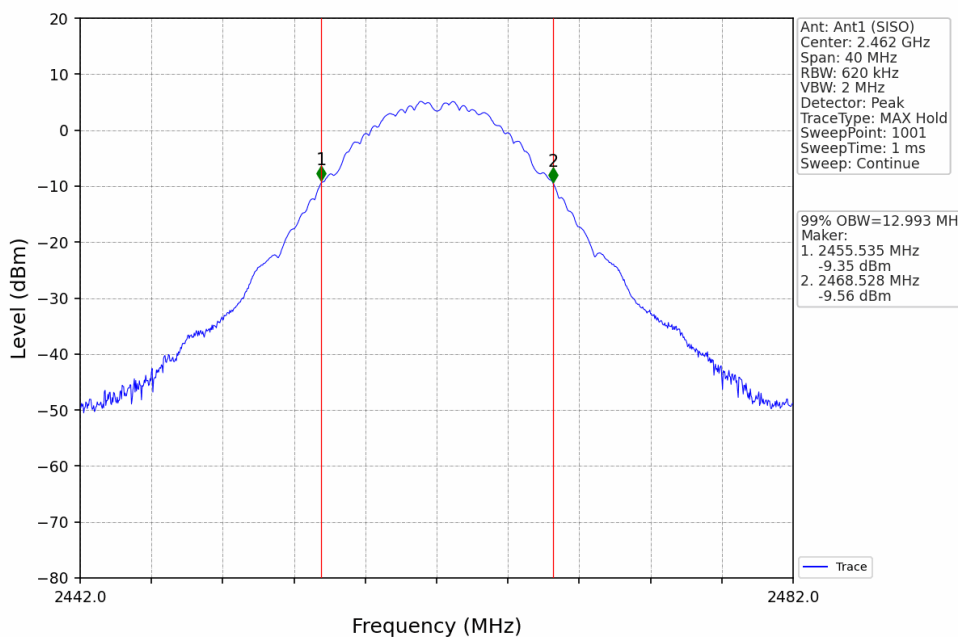
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict
						Result	
802.11b	SISO	2412	/	/	1	12.975	Pass
		2437	/	/	1	12.987	Pass
		2462	/	/	1	12.993	Pass
802.11g	SISO	2412	/	/	1	16.715	Pass
		2437	/	/	1	16.728	Pass
		2462	/	/	1	16.725	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.858	Pass
		2437	/	/	1	17.866	Pass
		2462	/	/	1	17.839	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.377	Pass
		2437	/	/	1	36.317	Pass
		2452	/	/	1	36.320	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	19.045	Pass
		2437	RU242	Left	1	19.035	Pass
		2462	RU242	Left	1	19.032	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	38.010	Pass
		2437	RU484	Left	1	37.972	Pass
		2452	RU484	Left	1	38.062	Pass

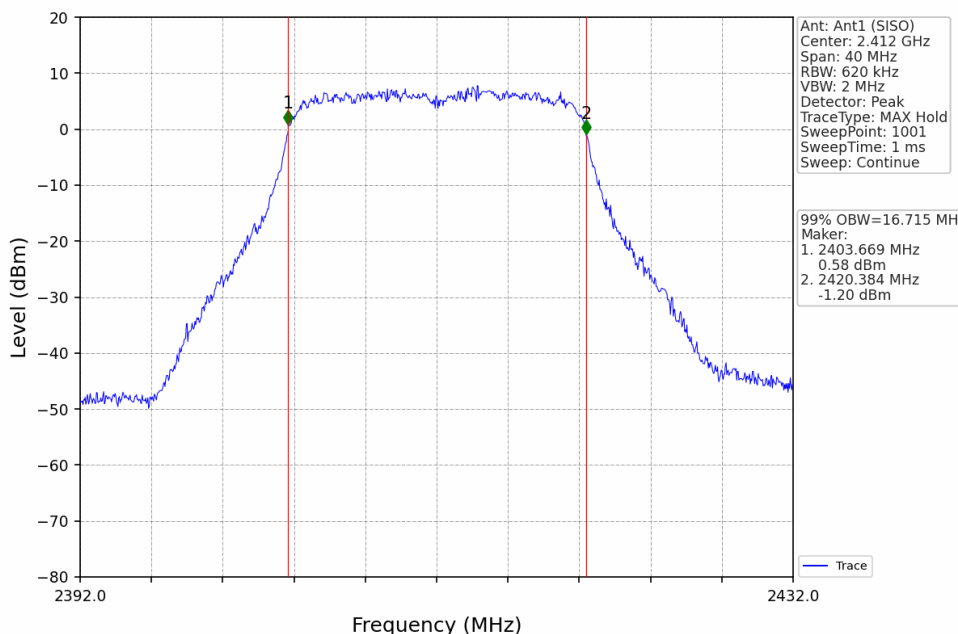
2.1.2 Test Graph



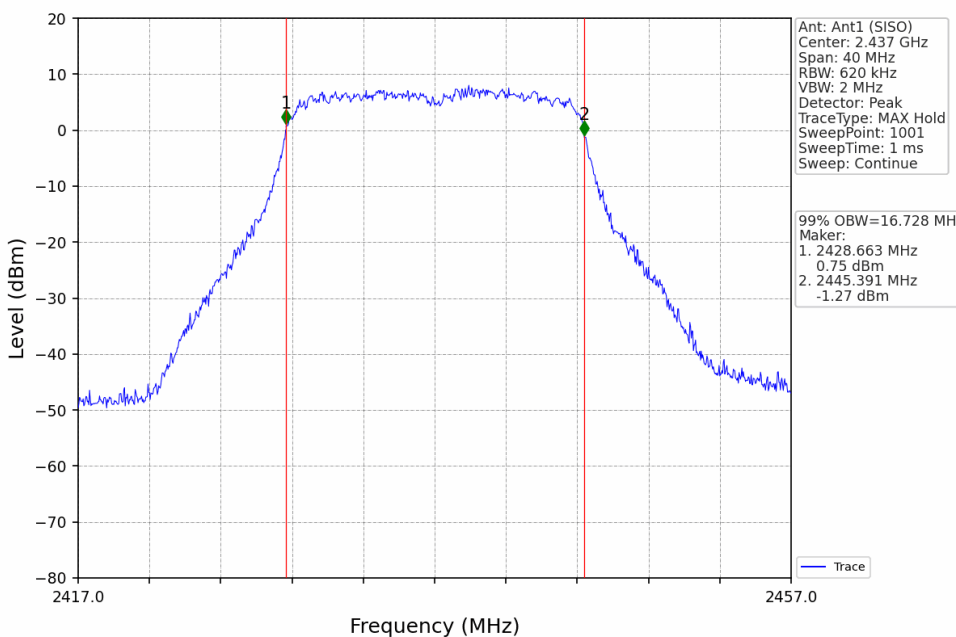
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



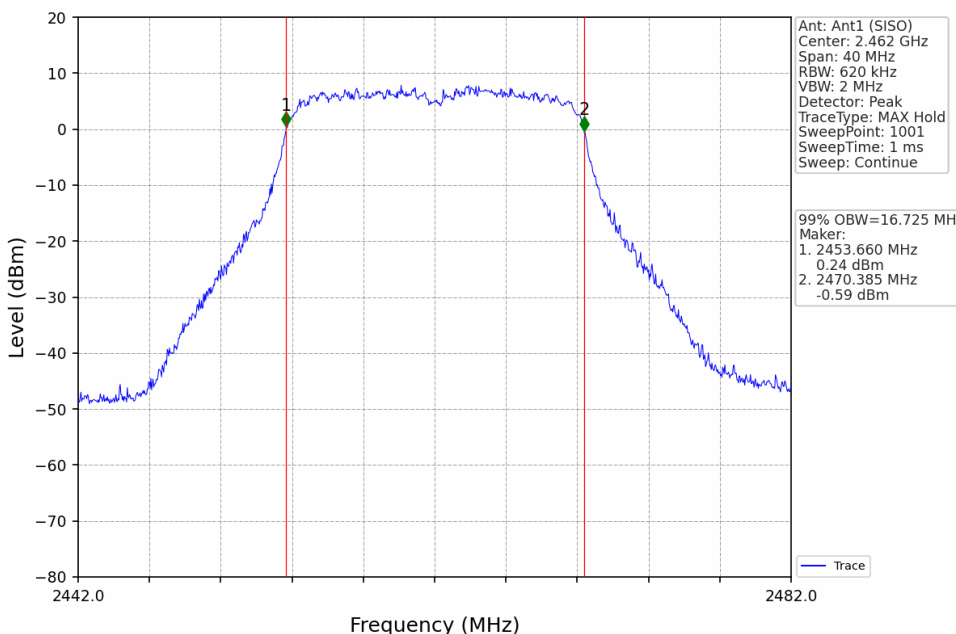
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



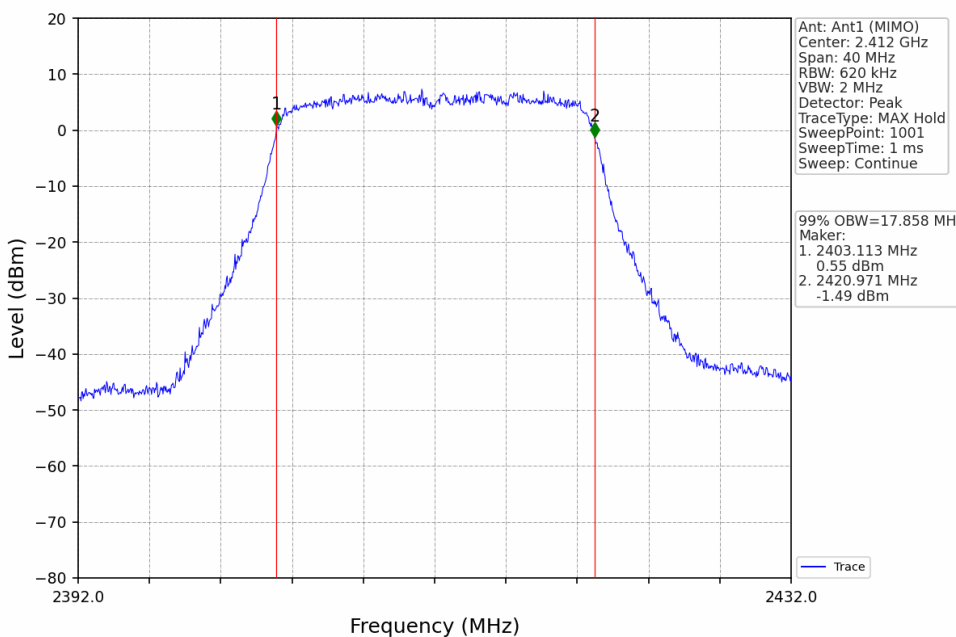
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



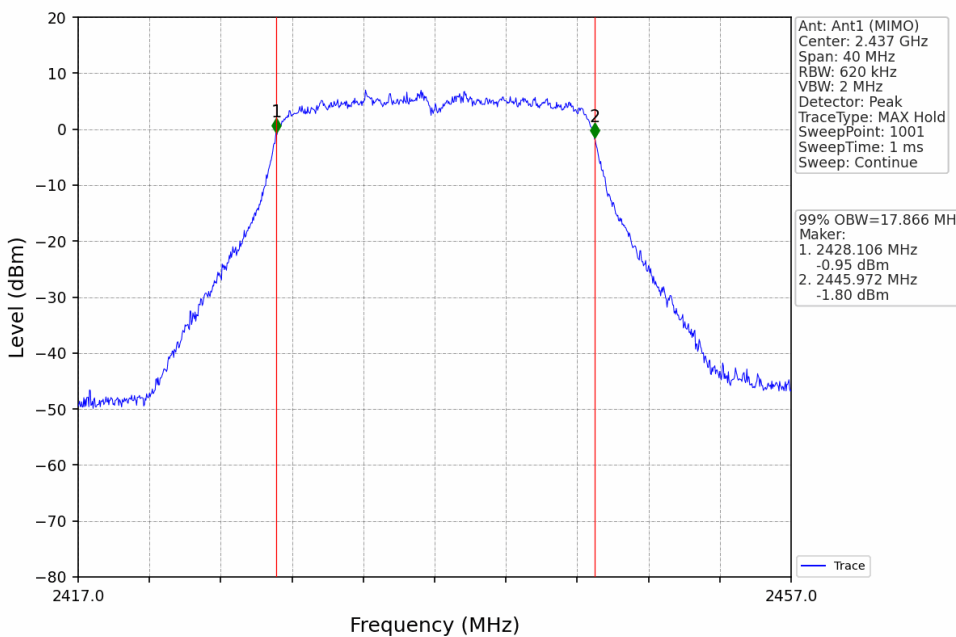
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV

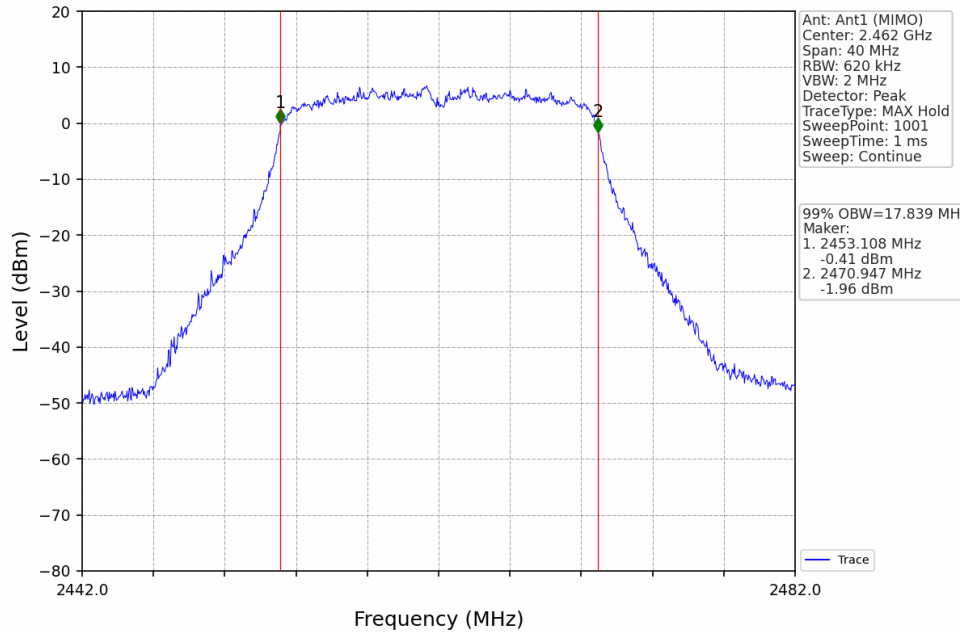


802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV

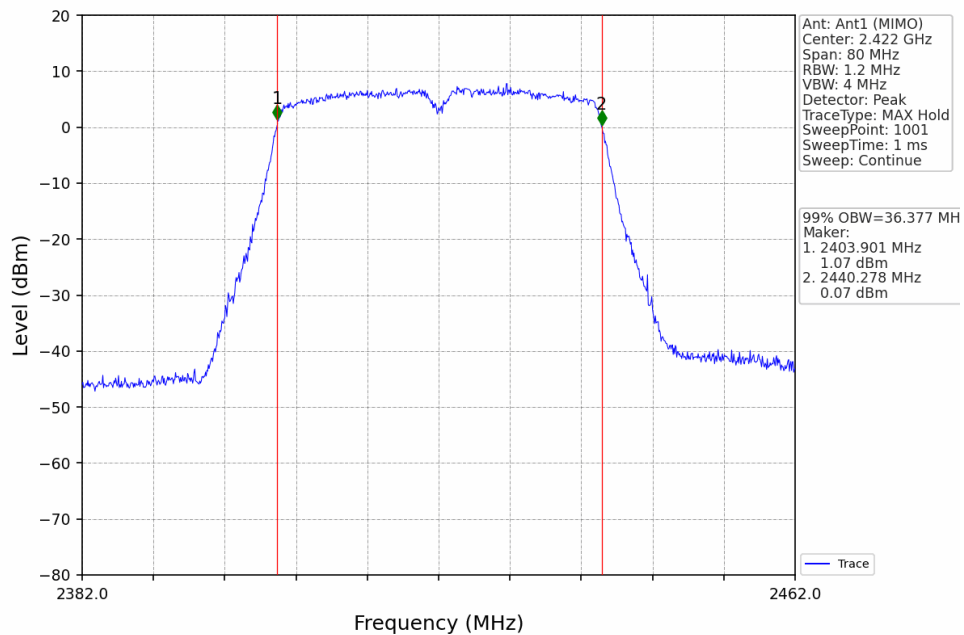


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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



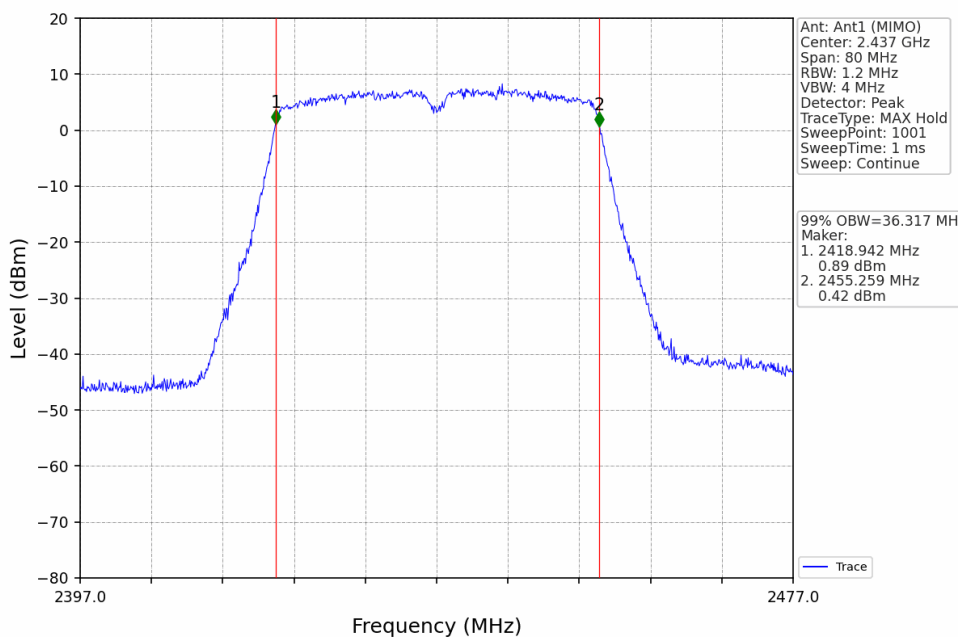
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



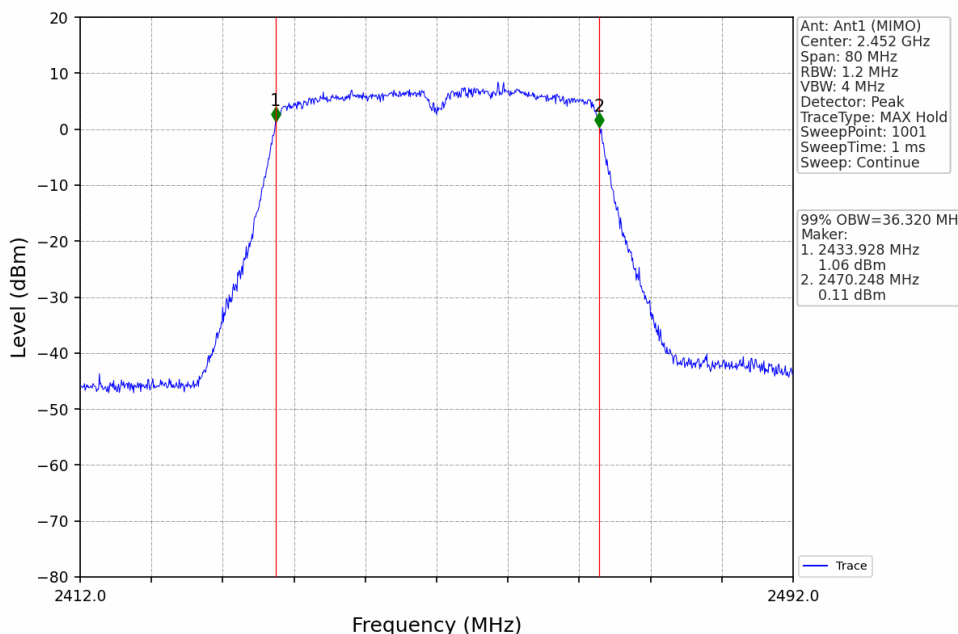
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV

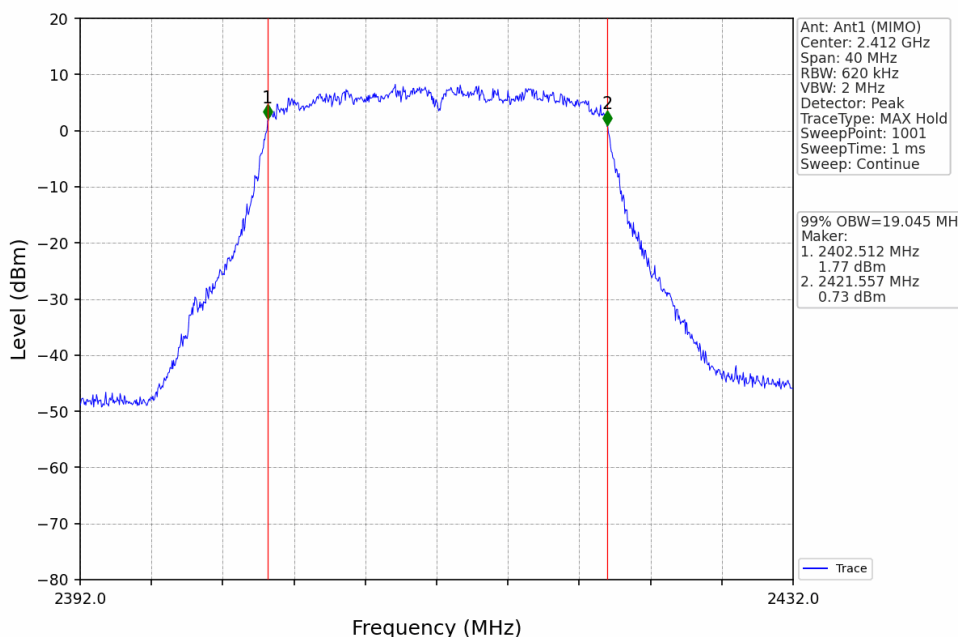


802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

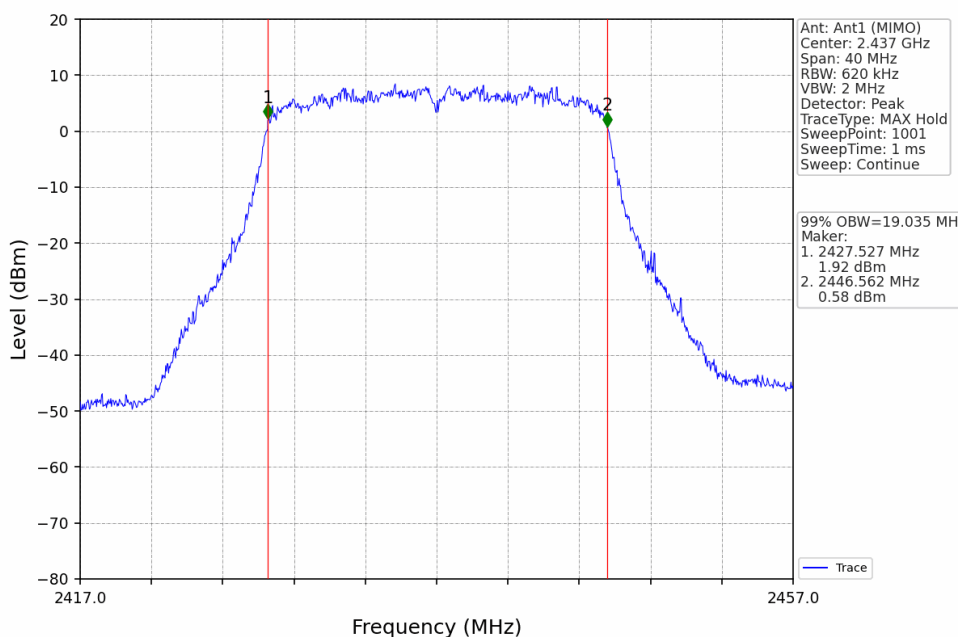


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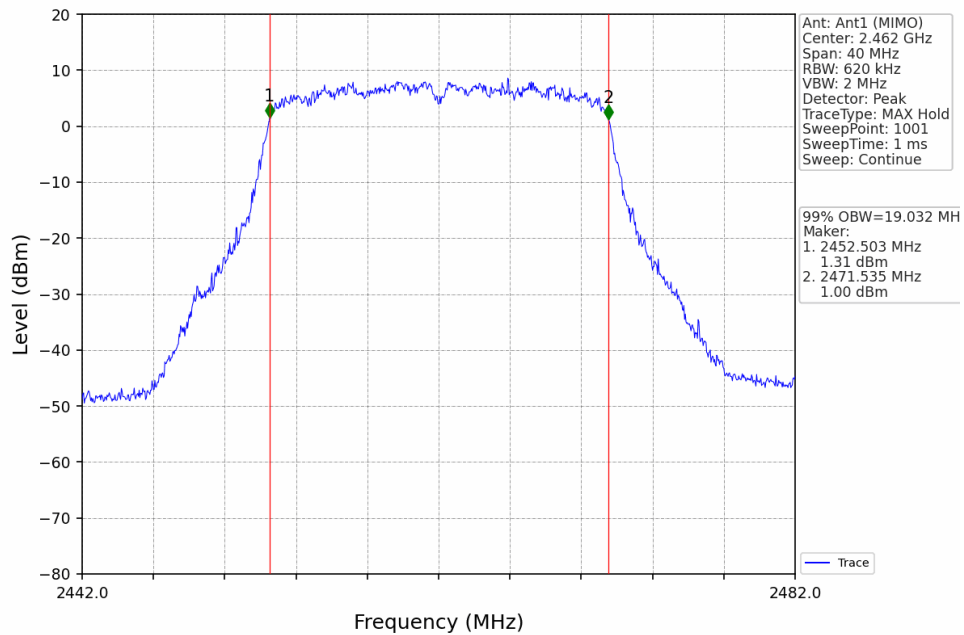
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



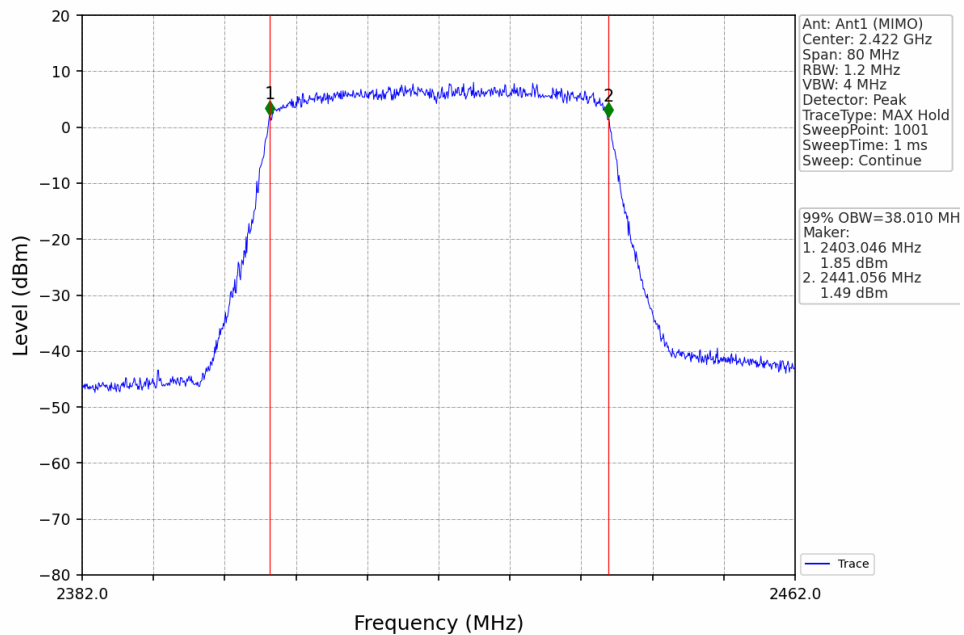
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



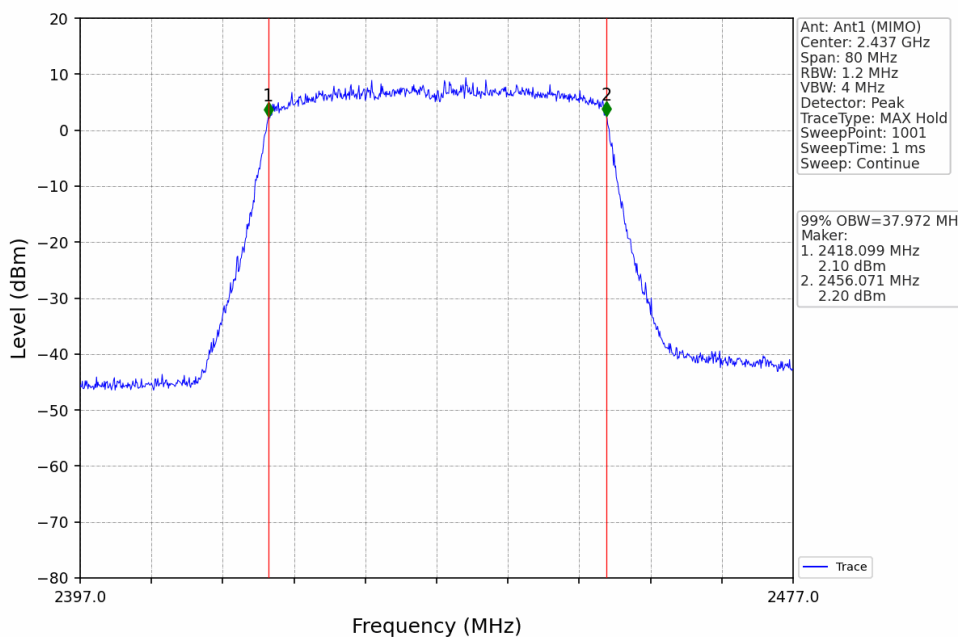
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



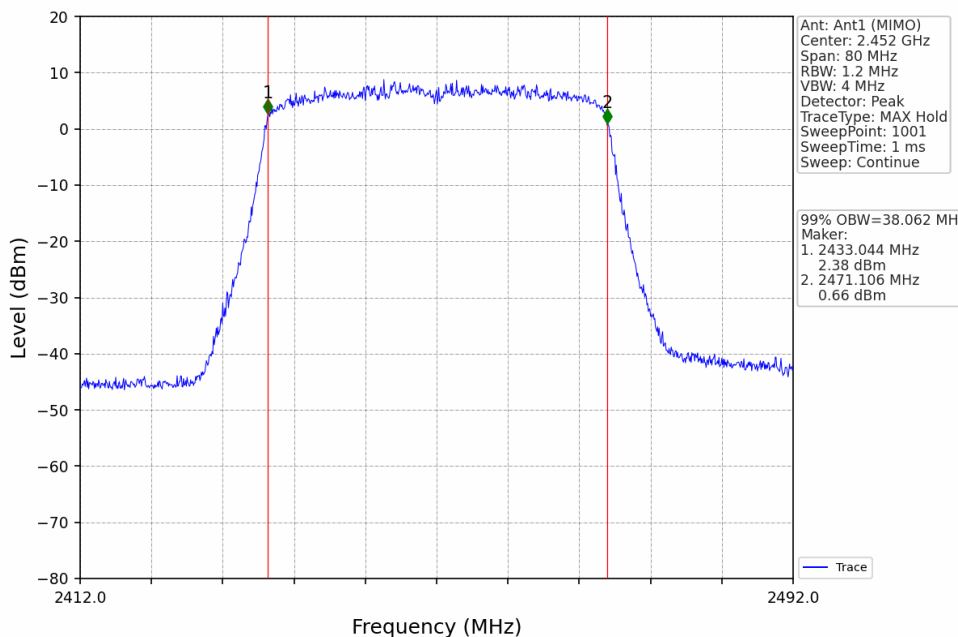
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV

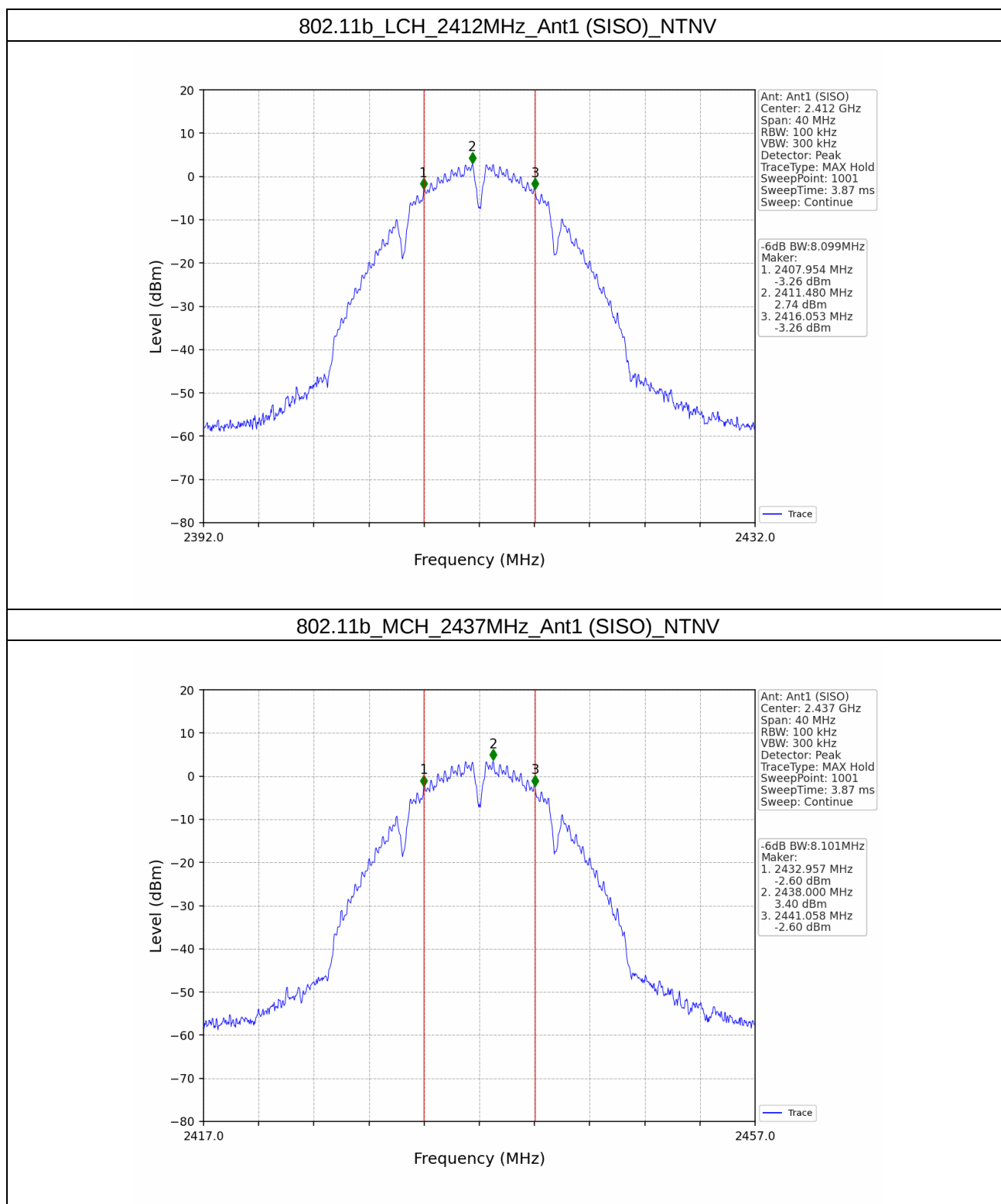


2.2 6dB BW

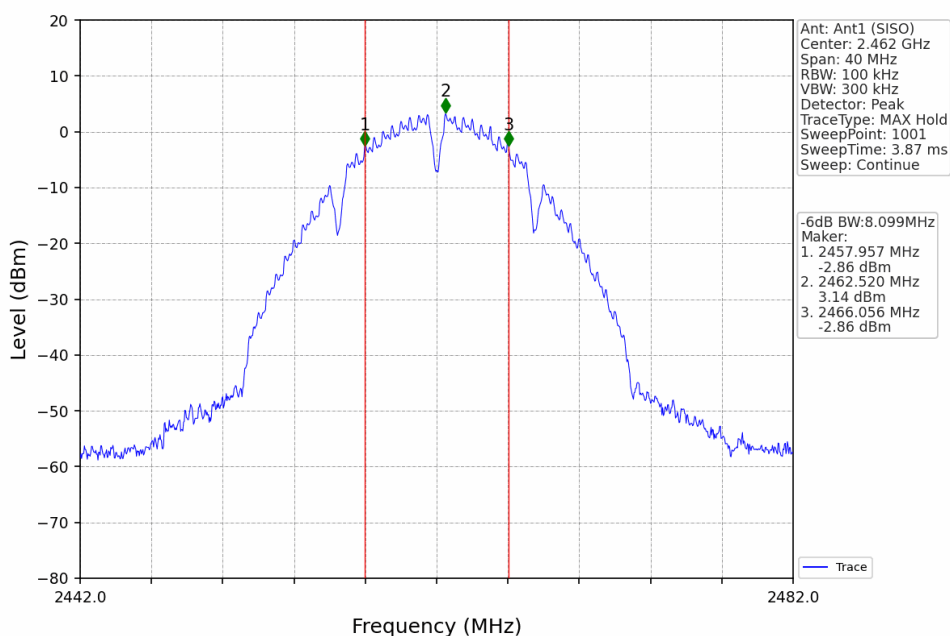
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.099	>=0.5	Pass
		2437	/	/	1	8.101	>=0.5	Pass
		2462	/	/	1	8.099	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.053	>=0.5	Pass
		2437	/	/	1	16.301	>=0.5	Pass
		2462	/	/	1	15.950	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.610	>=0.5	Pass
		2437	/	/	1	16.560	>=0.5	Pass
		2462	/	/	1	16.980	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.712	>=0.5	Pass
		2437	/	/	1	35.743	>=0.5	Pass
		2452	/	/	1	35.945	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.541	>=0.5	Pass
		2437	RU242	Left	1	18.235	>=0.5	Pass
		2462	RU242	Left	1	18.388	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	37.824	>=0.5	Pass
		2437	RU484	Left	1	37.912	>=0.5	Pass
		2452	RU484	Left	1	37.789	>=0.5	Pass

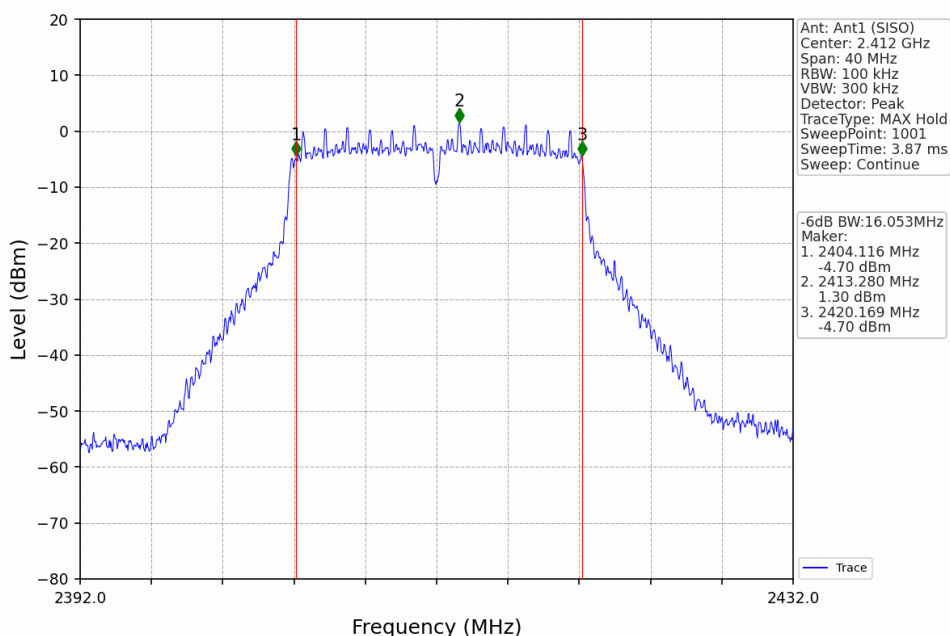
2.2.2 Test Graph



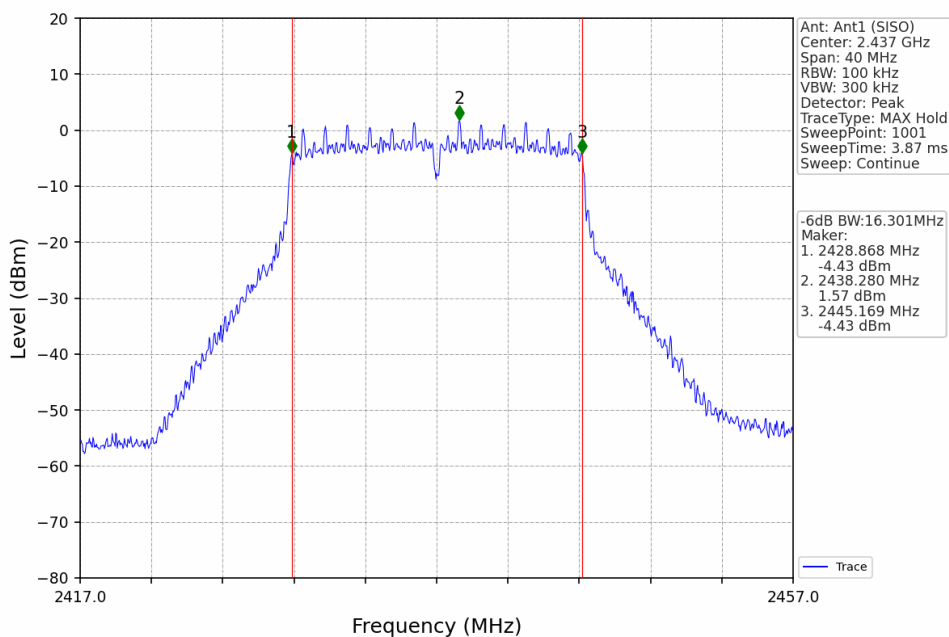
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



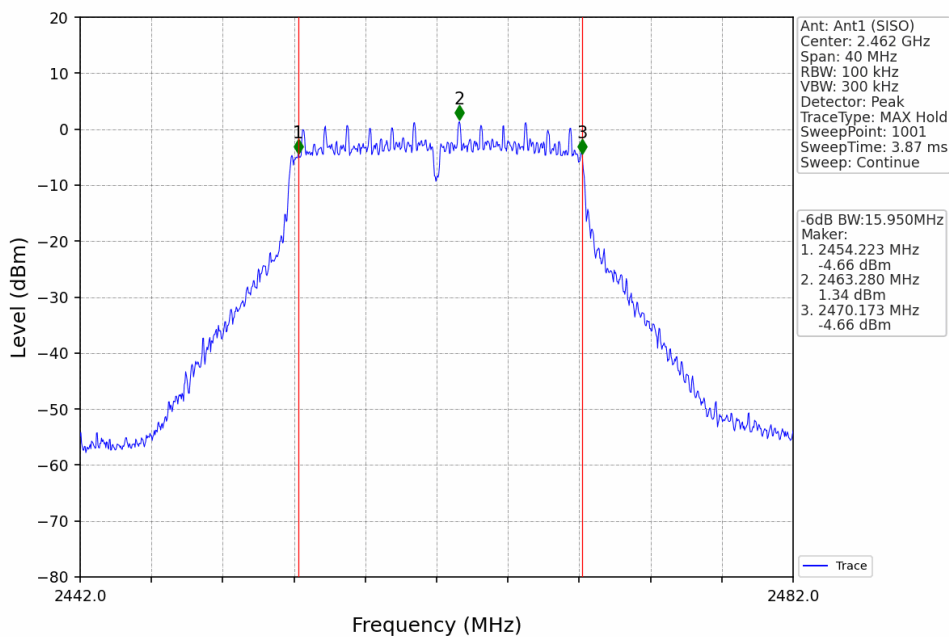
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



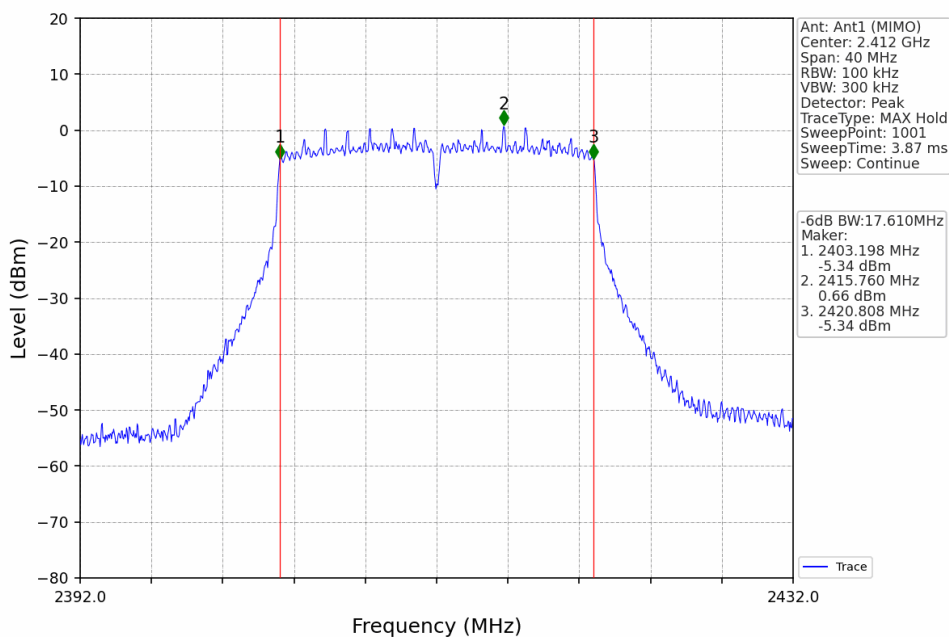
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



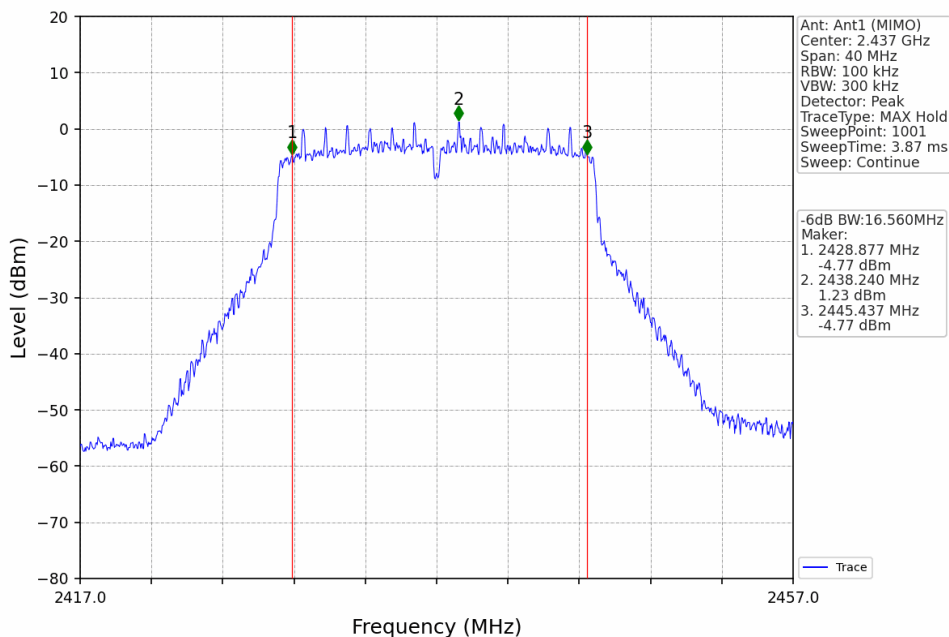
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



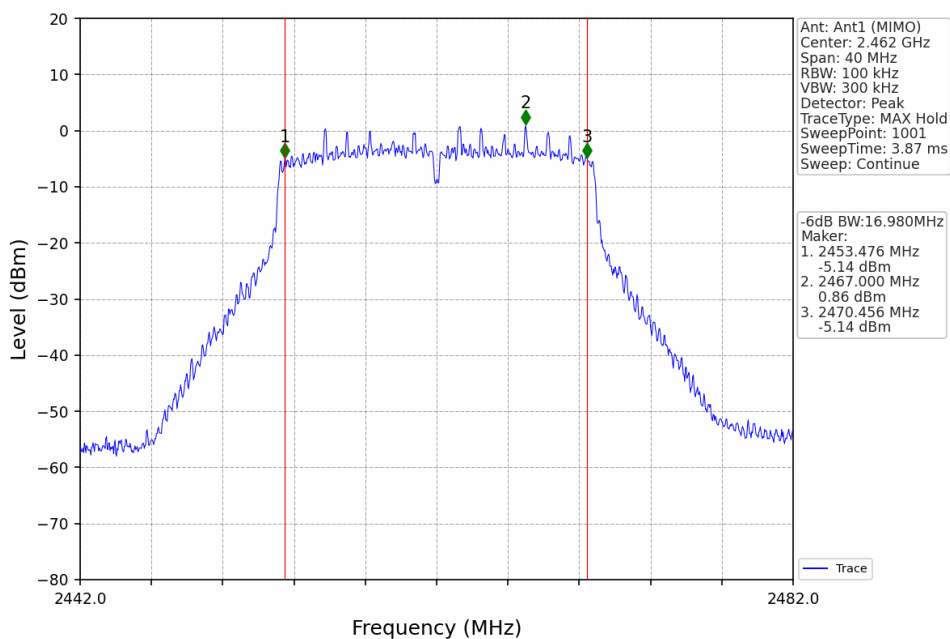
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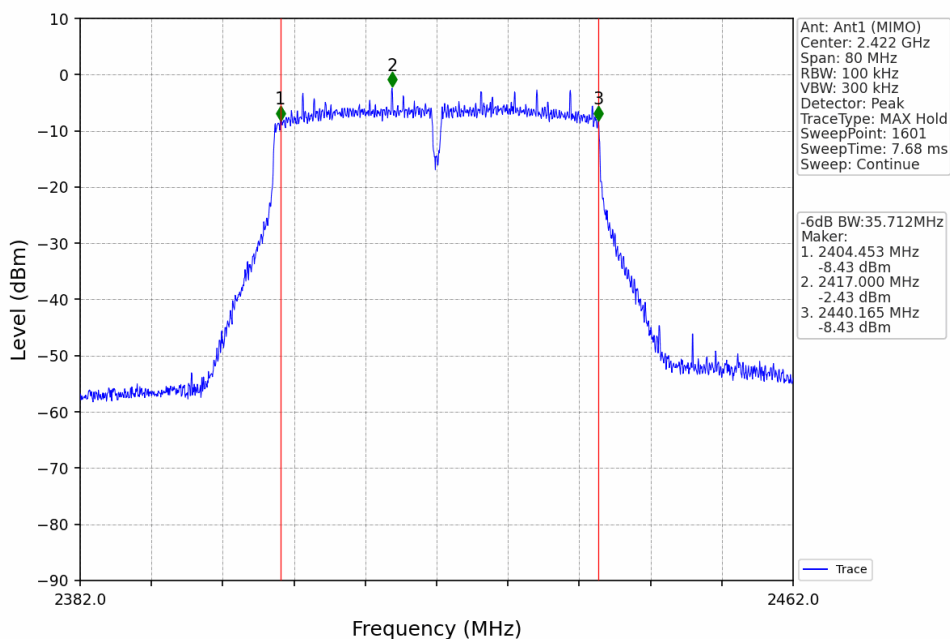
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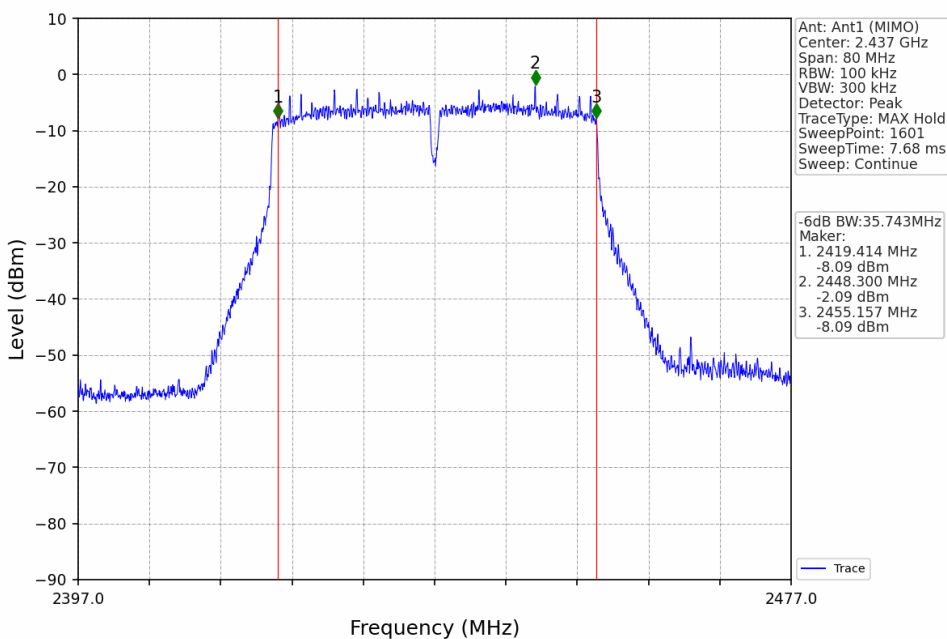
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



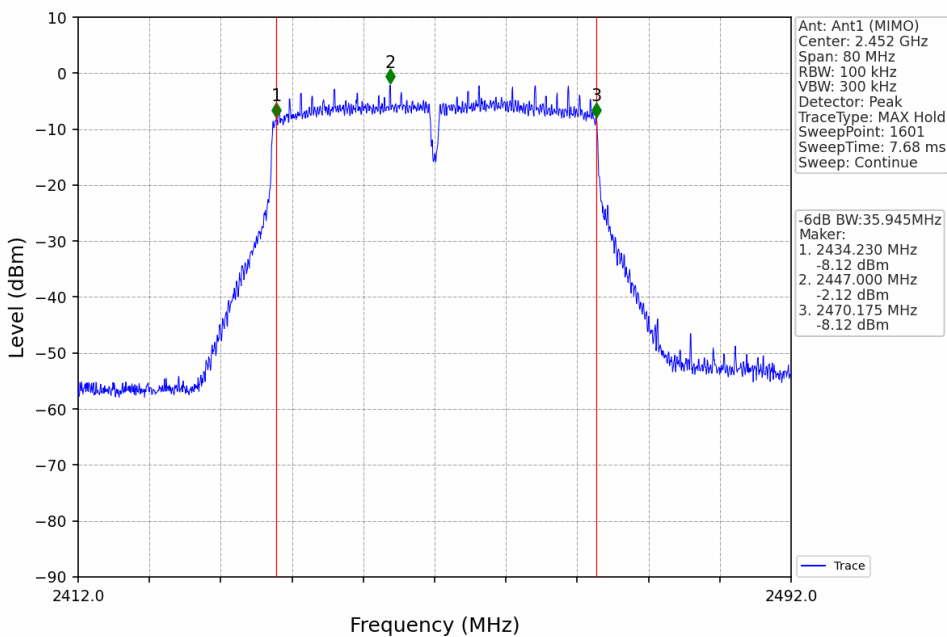
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



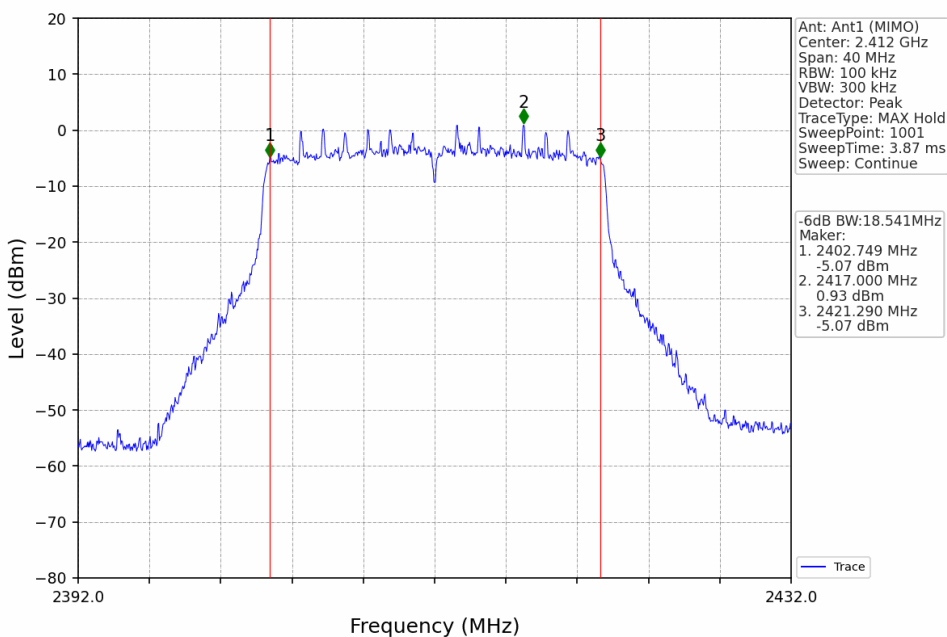
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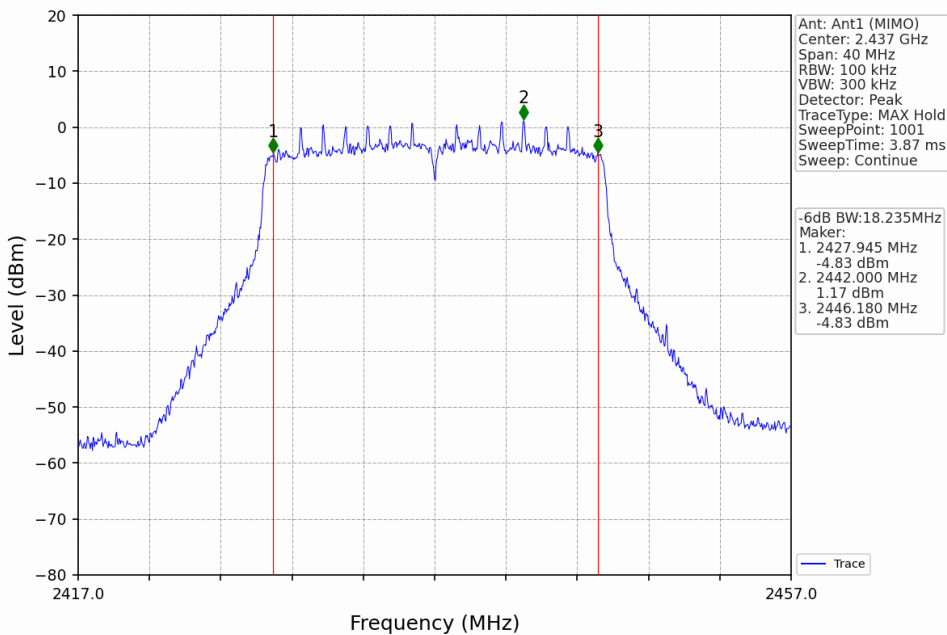
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



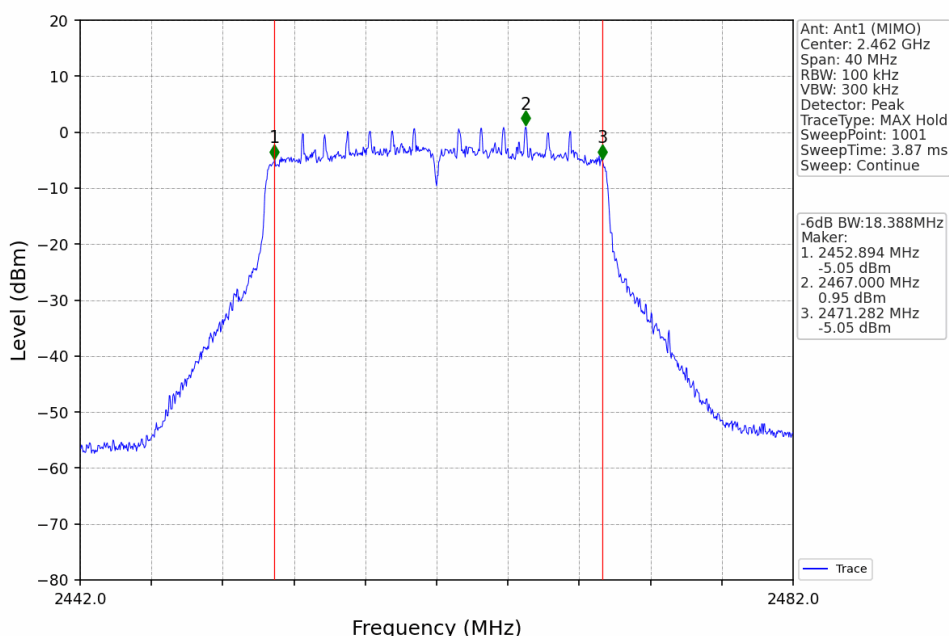
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



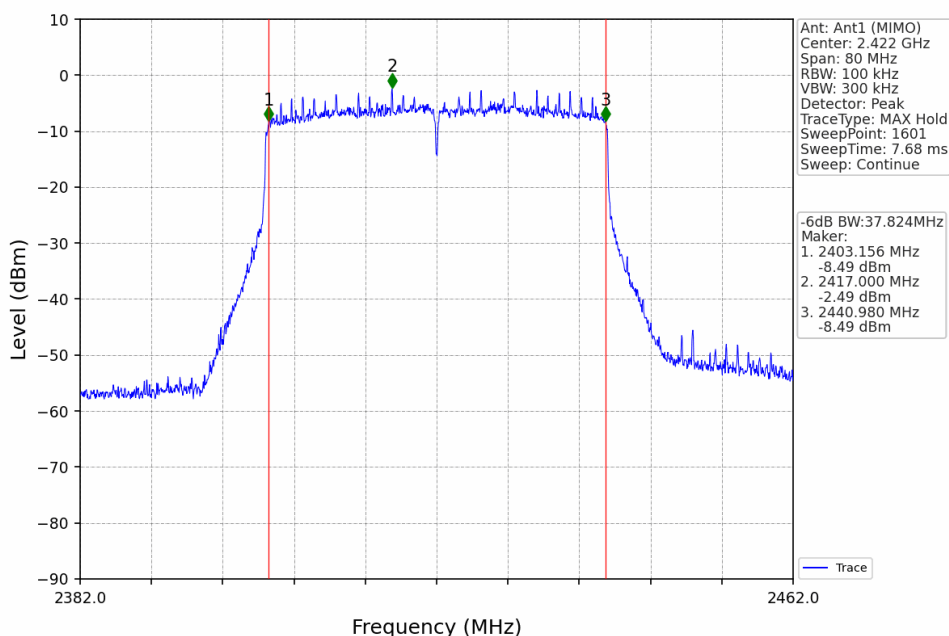
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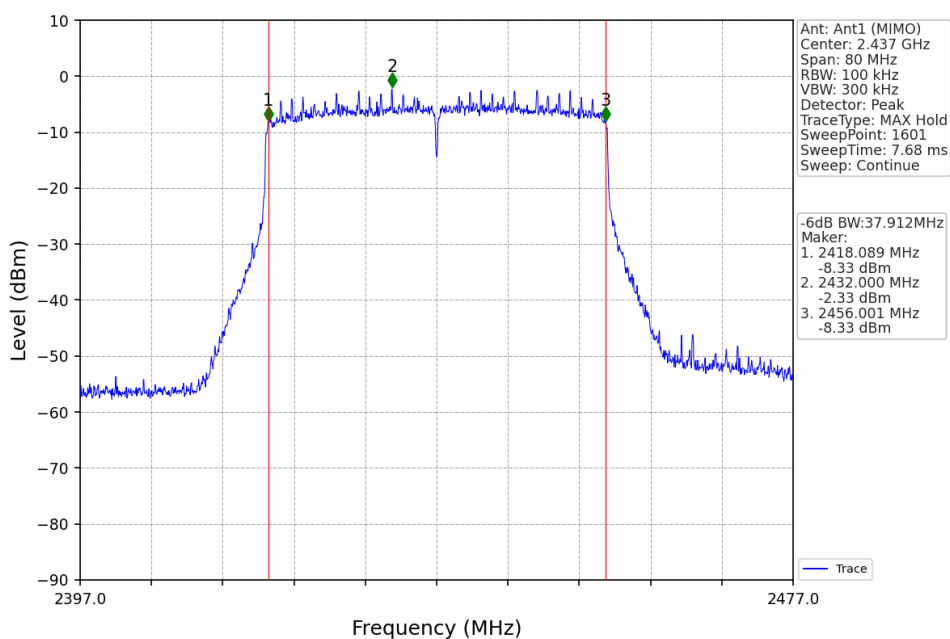
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



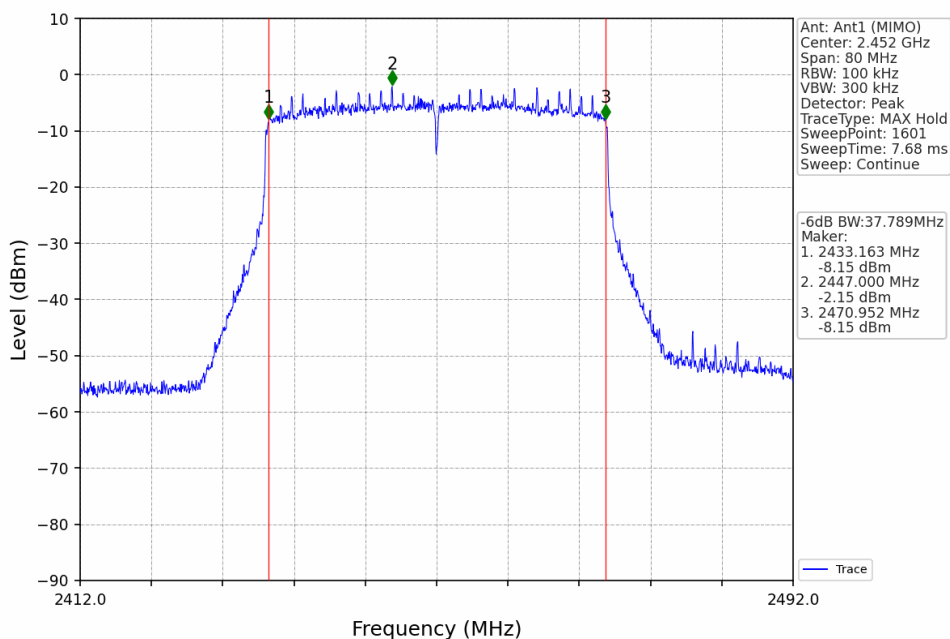
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	21.97	22.68	/	≤ 30	Pass
		2437	/	/	23.02	23.43	/	≤ 30	Pass
		2462	/	/	21.35	22.17	/	≤ 30	Pass
802.11g	SISO	2412	/	/	19.17	19.51	/	≤ 30	Pass
		2437	/	/	21.12	21.30	/	≤ 30	Pass
		2462	/	/	19.45	19.90	/	≤ 30	Pass
802.11n (HT20)	MIMO	2412	/	/	17.87	18.21	21.05	≤ 29.2	Pass
		2437	/	/	19.98	20.27	23.14	≤ 29.2	Pass
		2462	/	/	17.16	17.66	20.43	≤ 29.2	Pass
802.11n (HT40)	MIMO	2422	/	/	15.53	15.90	18.73	≤ 29.2	Pass
		2437	/	/	16.71	17.08	19.91	≤ 29.2	Pass
		2452	/	/	13.96	14.29	17.14	≤ 29.2	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	17.73	18.04	20.90	≤ 29.2	Pass
		2437	RU242	Left	19.64	20.05	22.86	≤ 29.2	Pass
		2462	RU242	Left	17.12	17.57	20.36	≤ 29.2	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	15.15	15.24	18.21	≤ 29.2	Pass
		2437	RU484	Left	16.26	16.53	19.41	≤ 29.2	Pass
		2452	RU484	Left	13.32	13.67	16.51	≤ 29.2	Pass

Note1: Antenna Gain: Antenna 1&2:3.79dBi

Note2: Directional Gain=GAnt+10log (NAnt) dBi = 3.79+10log (2) dBi = 6.8dBi.

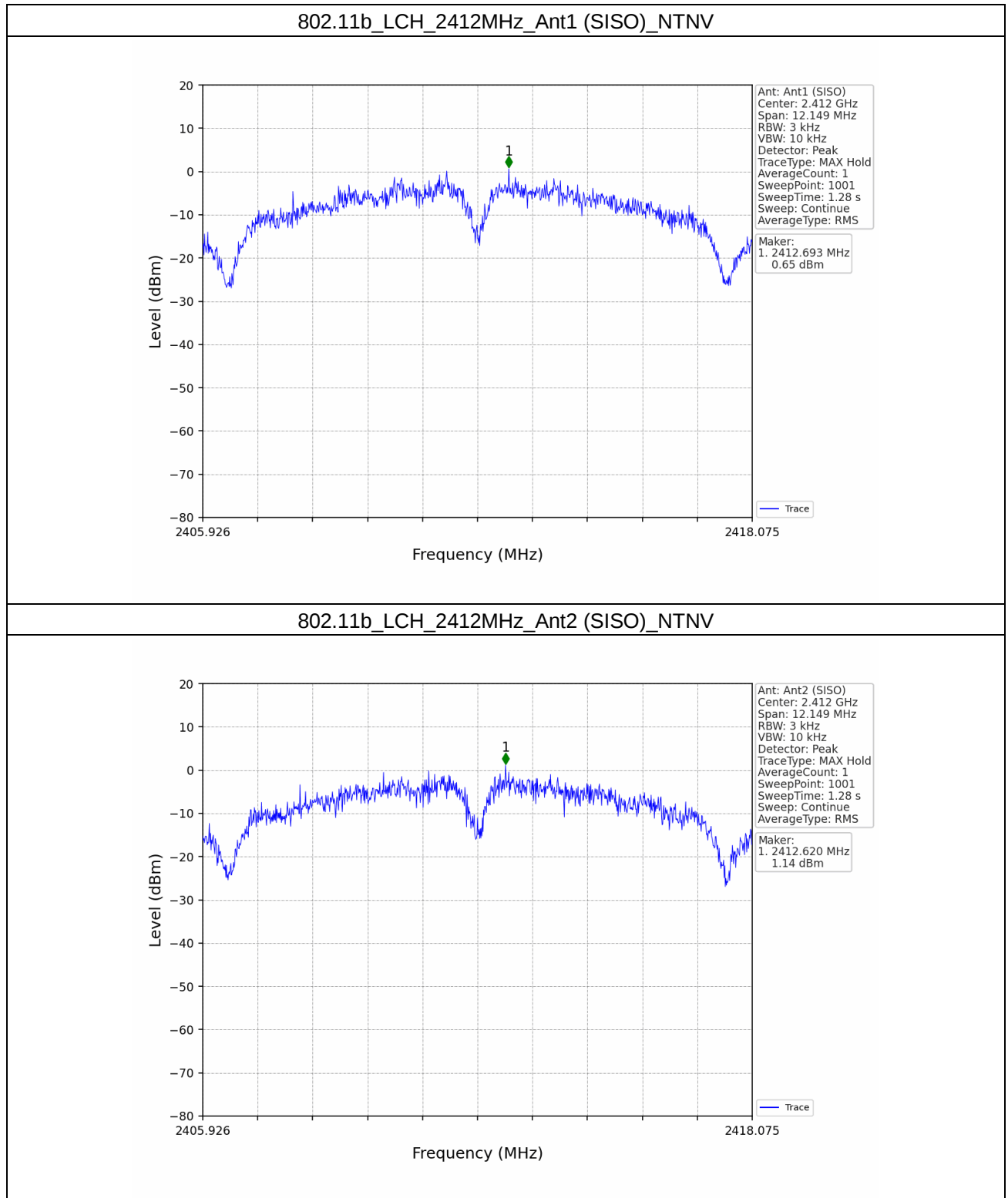
4. Maximum Power Spectral Density

4.1 PSD

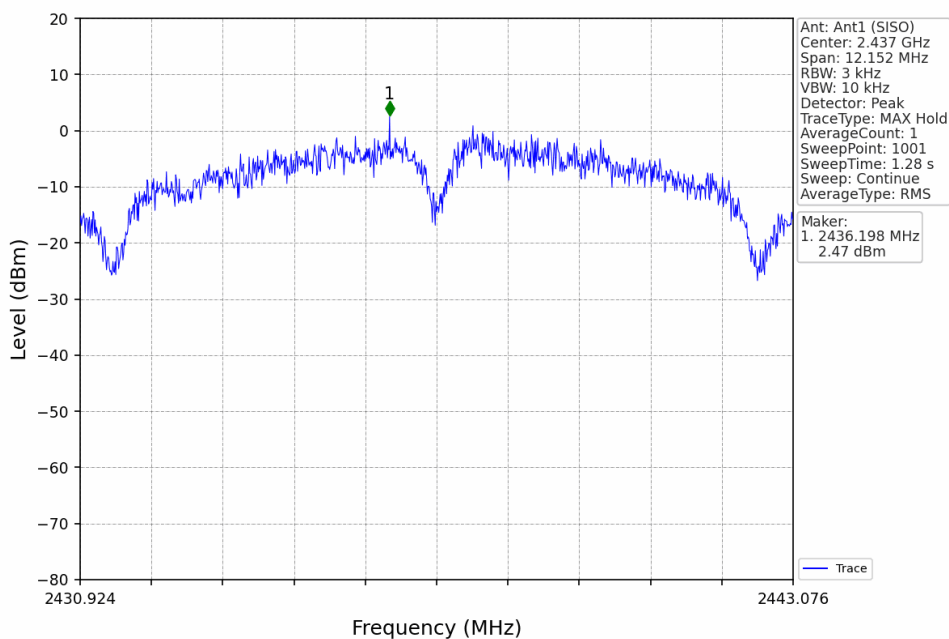
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	0.65	1.14	/	<=8	Pass
		2437	/	/	2.47	0.29	/	<=8	Pass
		2462	/	/	-0.32	0.91	/	<=8	Pass
802.11g	SISO	2412	/	/	-5.60	-6.42	/	<=8	Pass
		2437	/	/	-4.01	-3.58	/	<=8	Pass
		2462	/	/	-4.96	-5.83	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-9.54	-8.41	-5.97	<=8	Pass
		2437	/	/	-7.07	-7.62	-4.65	<=8	Pass
		2462	/	/	-10.29	-8.96	-7.31	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-14.53	-12.78	-10.86	<=8	Pass
		2437	/	/	-12.91	-11.01	-8.85	<=8	Pass
		2452	/	/	-16.21	-15.65	-13.30	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-9.75	-9.65	-6.95	<=8	Pass
		2437	RU242	Left	-8.12	-7.44	-5.69	<=8	Pass
		2462	RU242	Left	-10.37	-10.19	-8.19	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-14.51	-13.74	-11.93	<=8	Pass
		2437	RU484	Left	-12.90	-12.58	-11.02	<=8	Pass
		2452	RU484	Left	-15.65	-16.12	-13.63	<=8	Pass

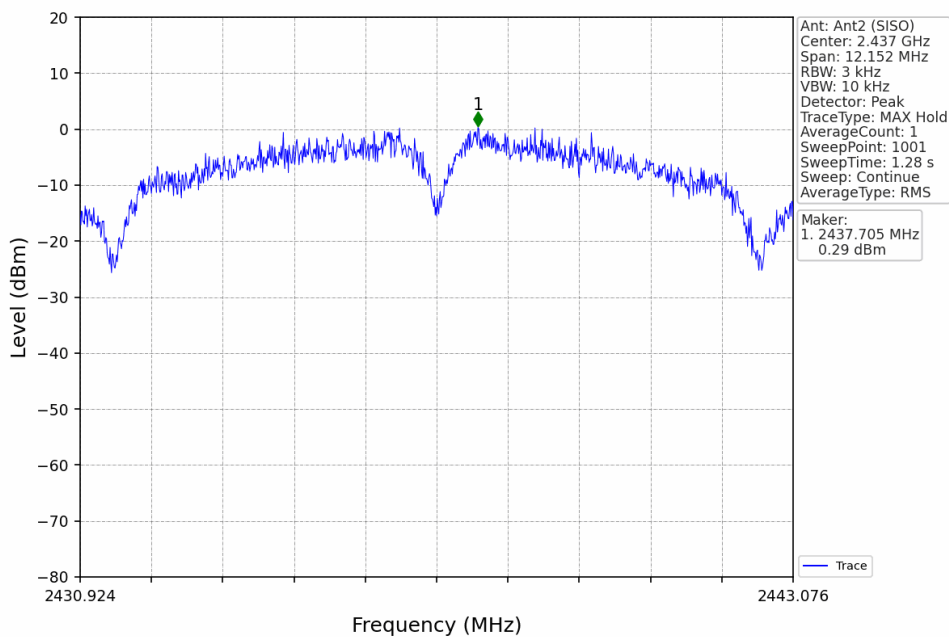
4.1.2 Test Graph



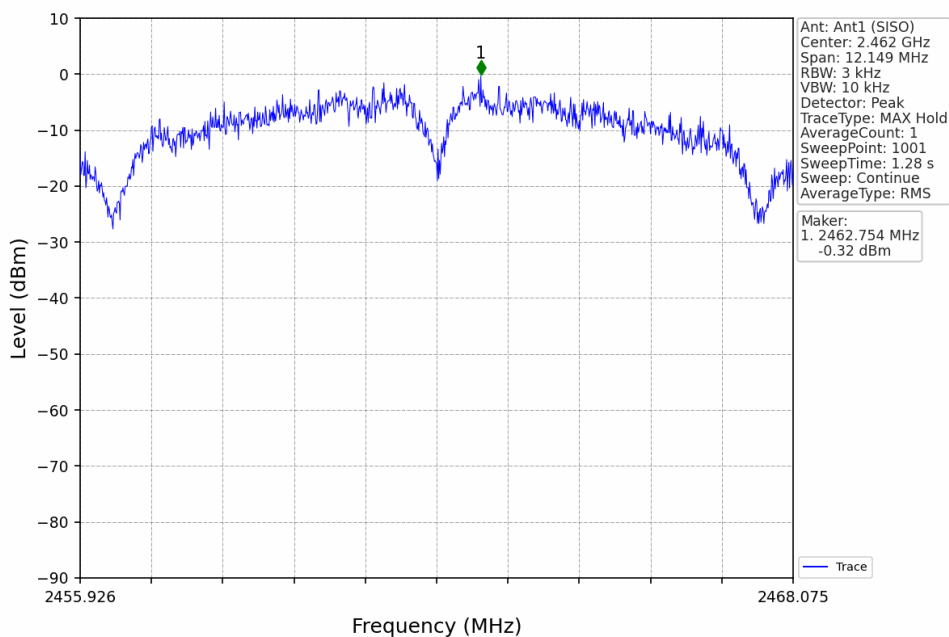
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



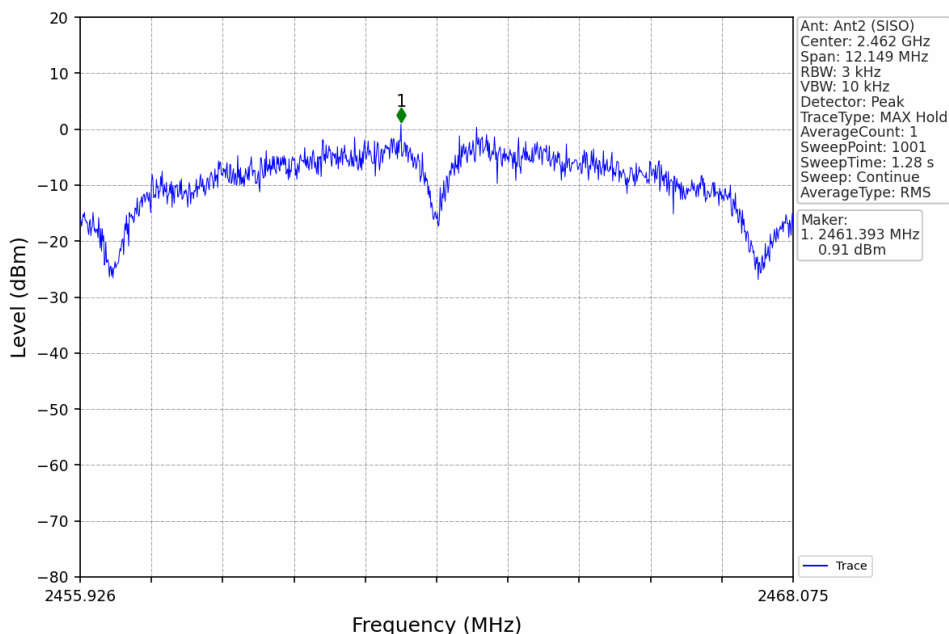
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



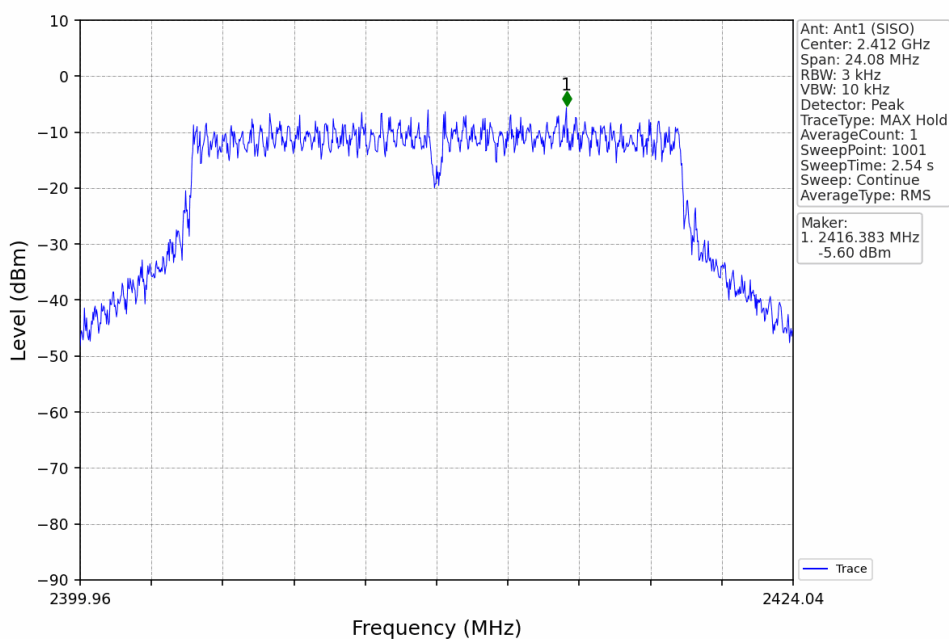
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



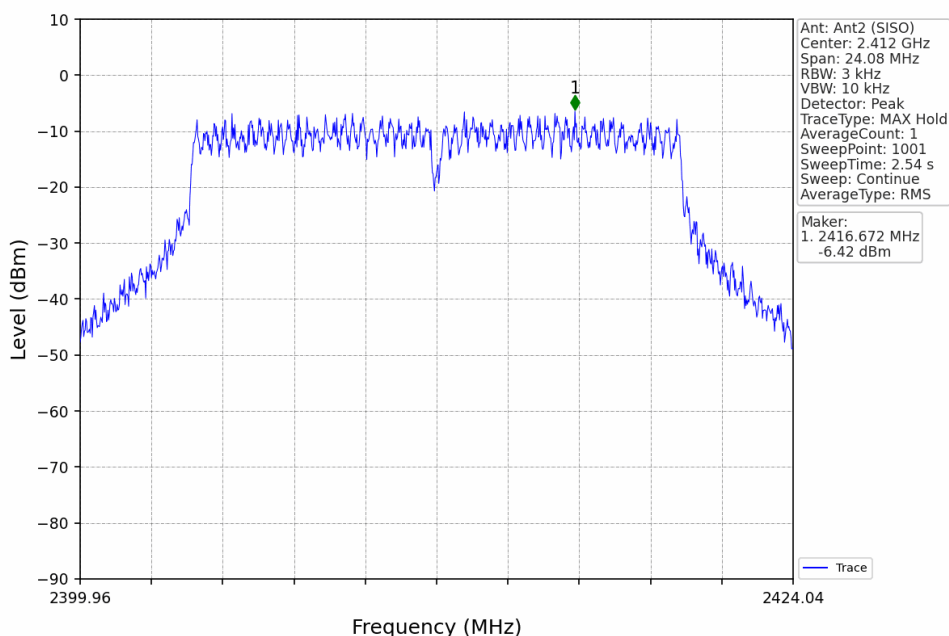
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



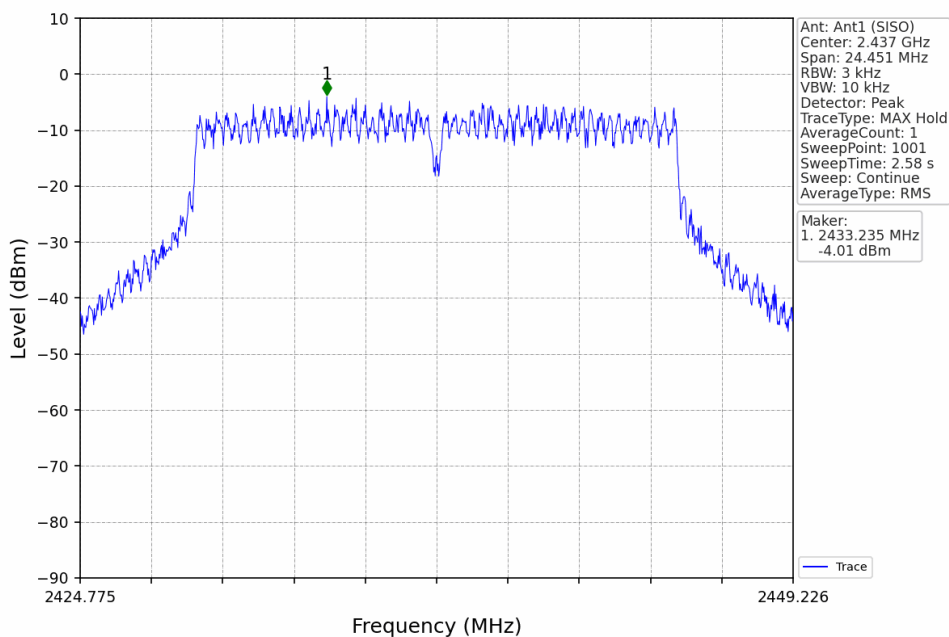
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



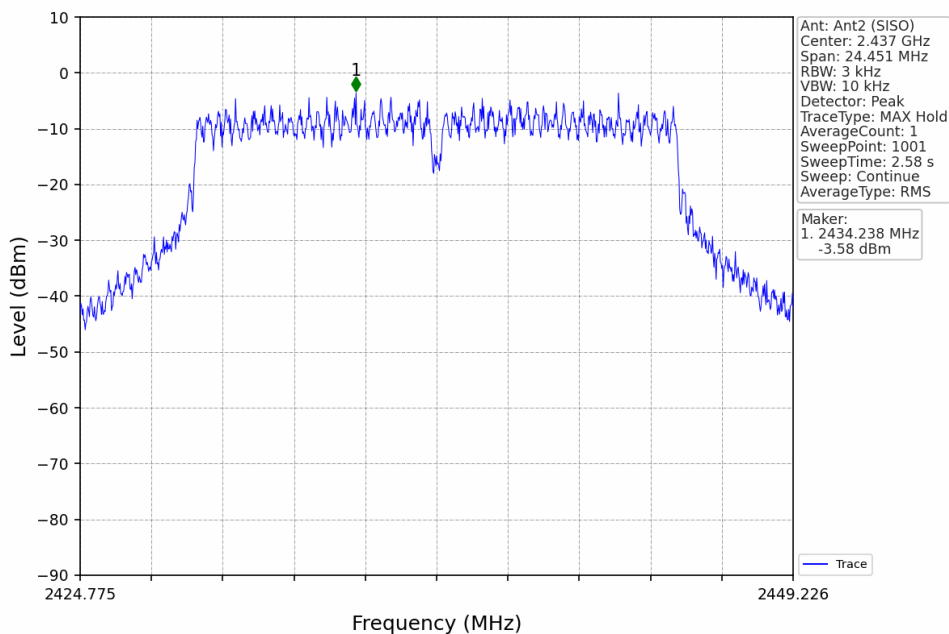
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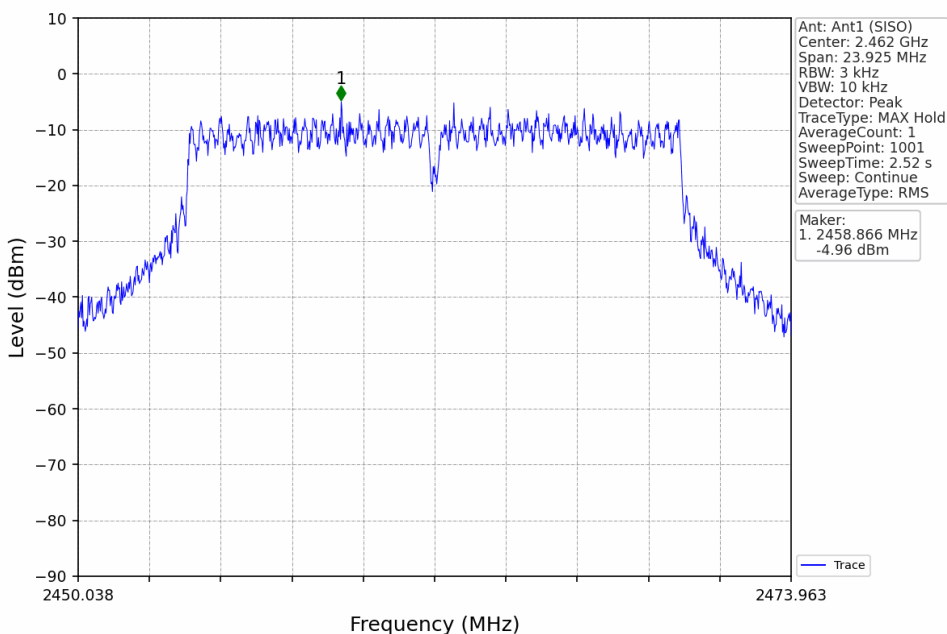
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



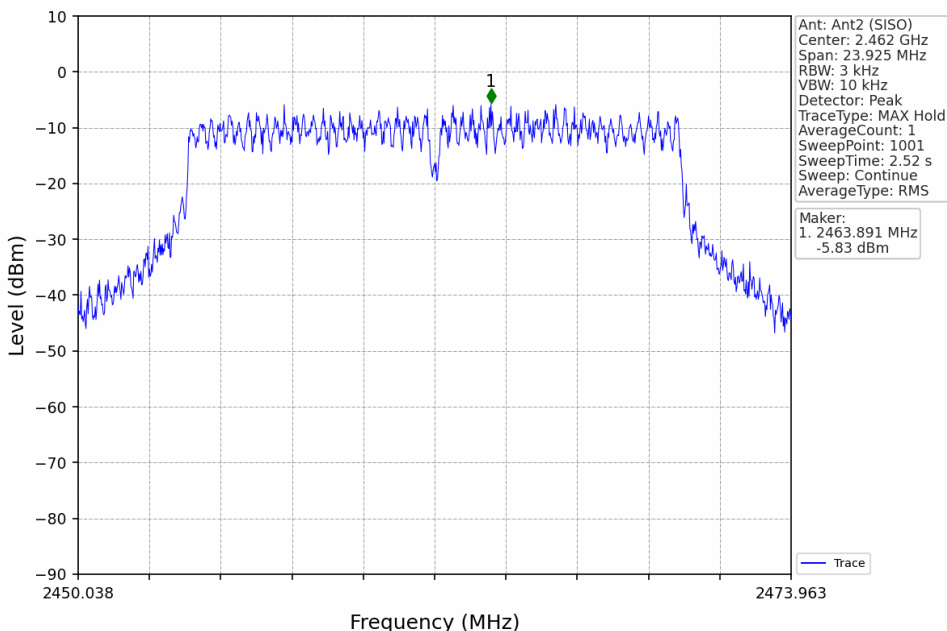
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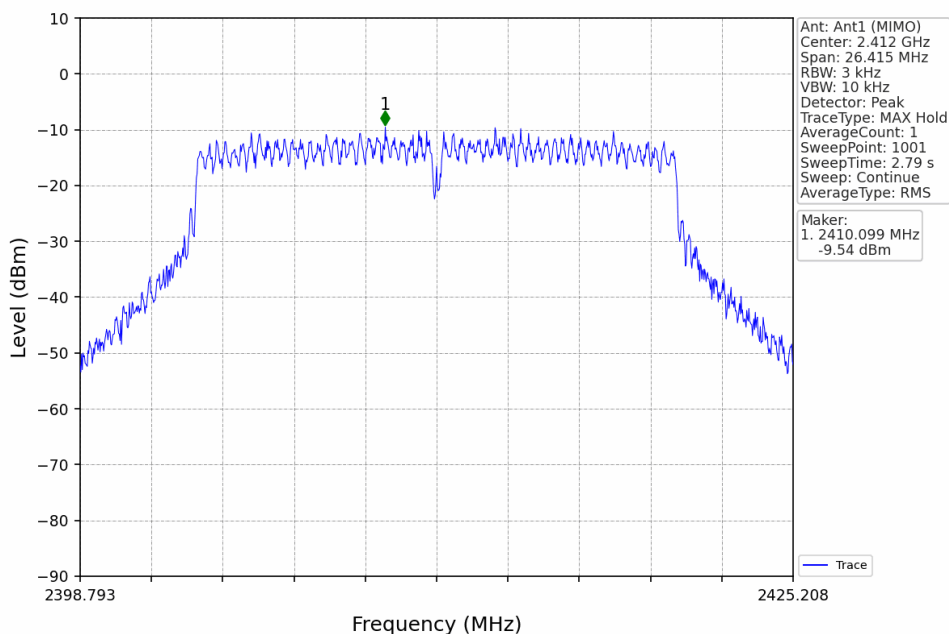
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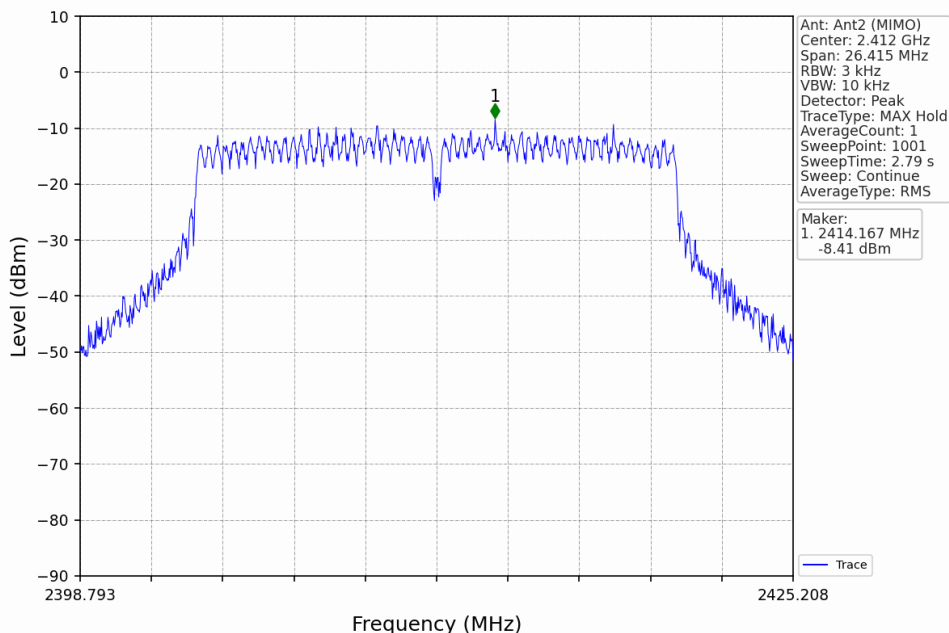
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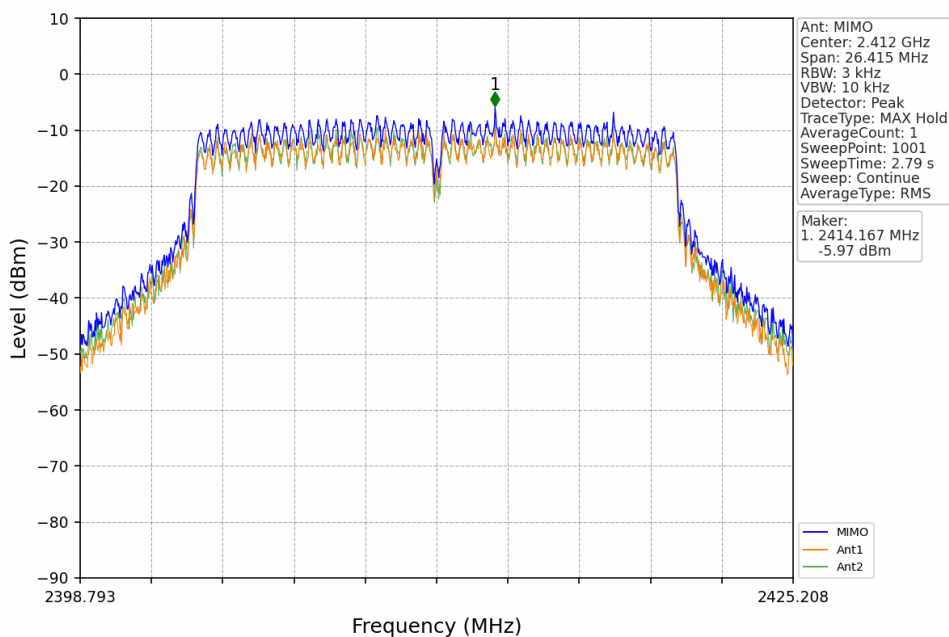
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



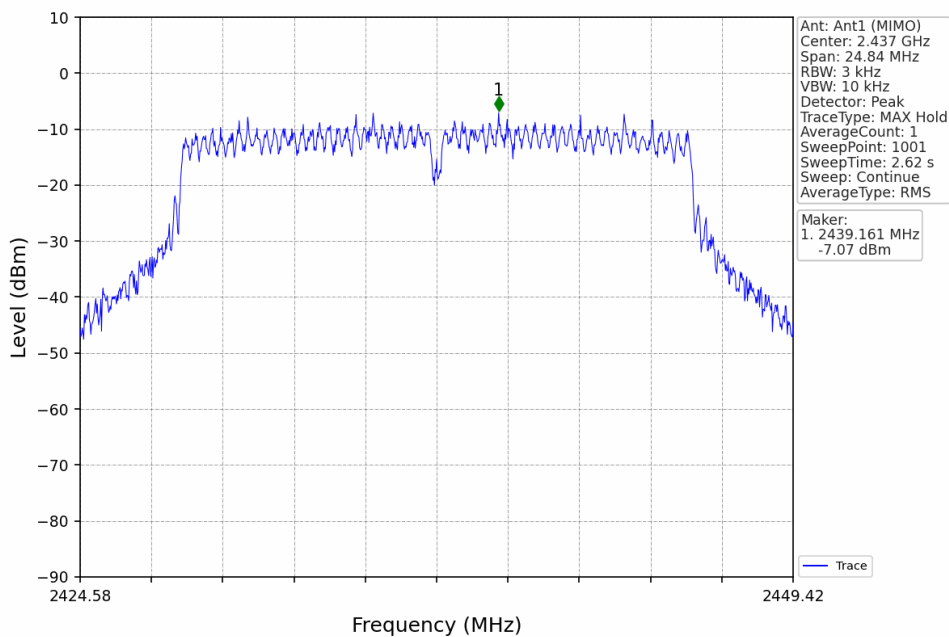
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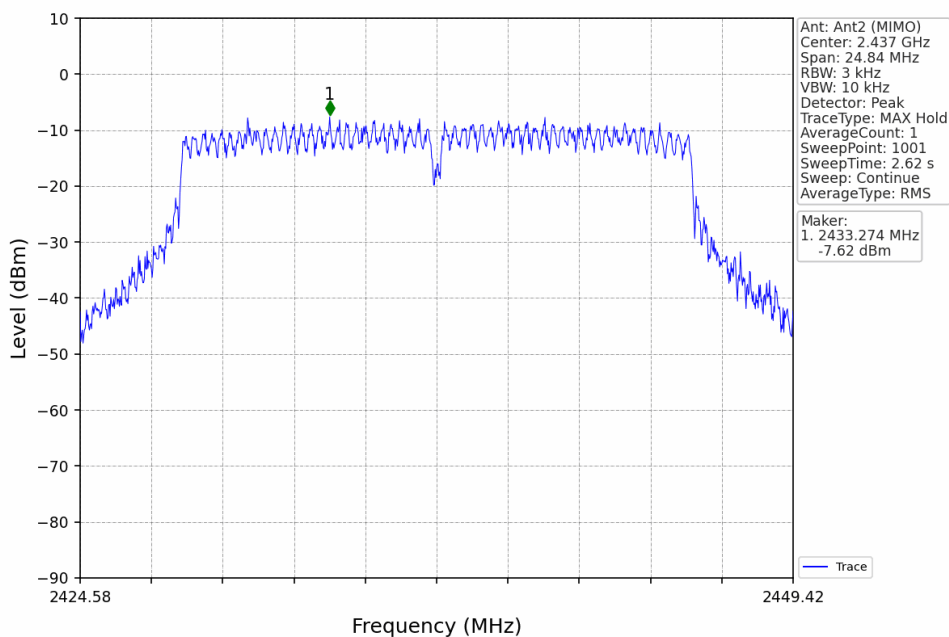
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



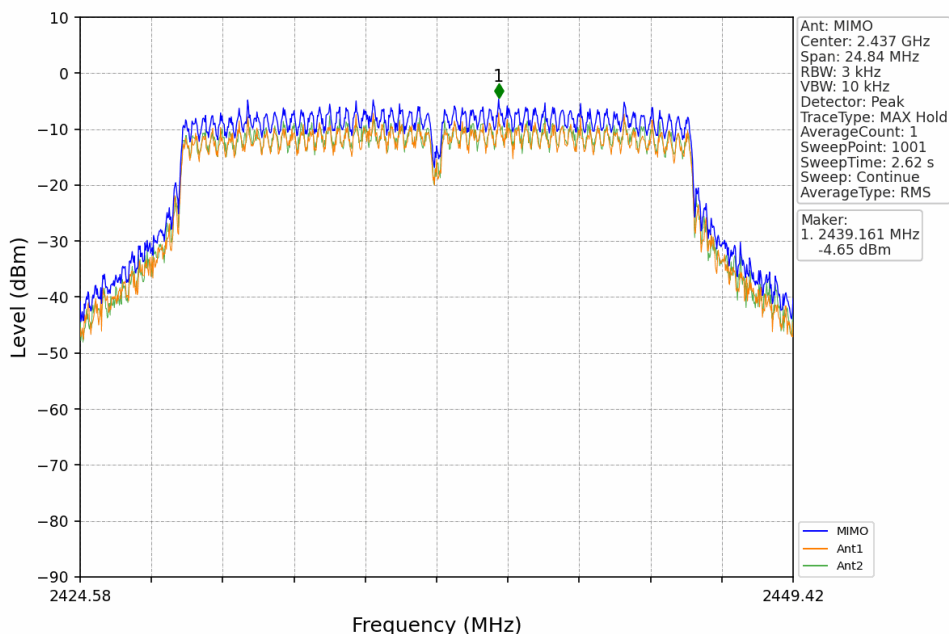
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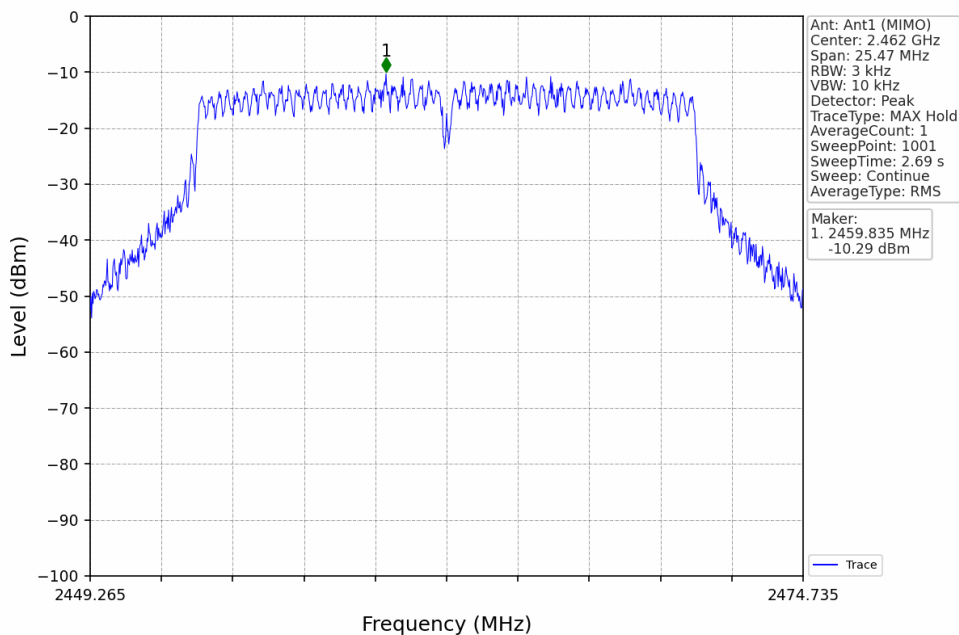


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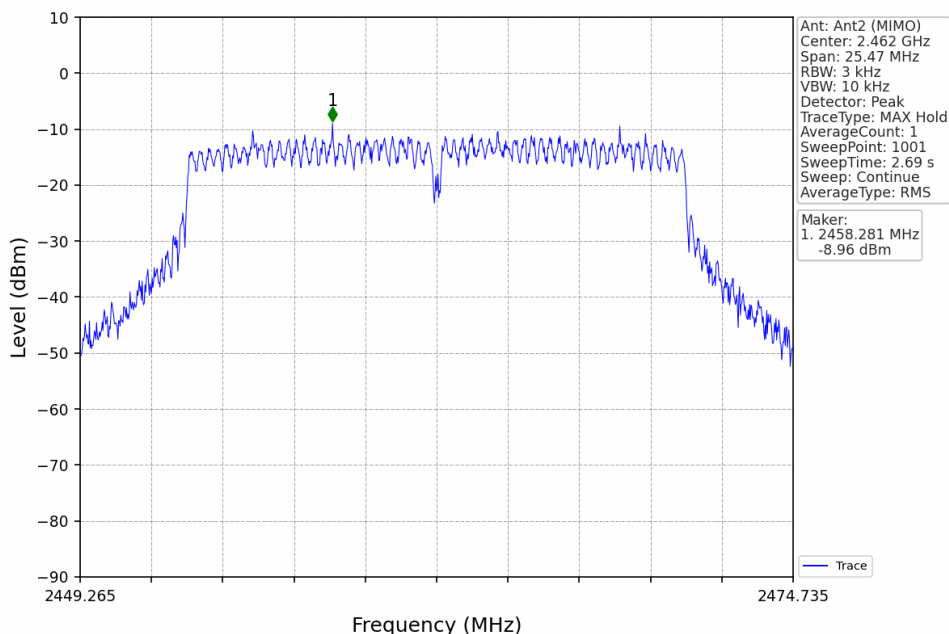


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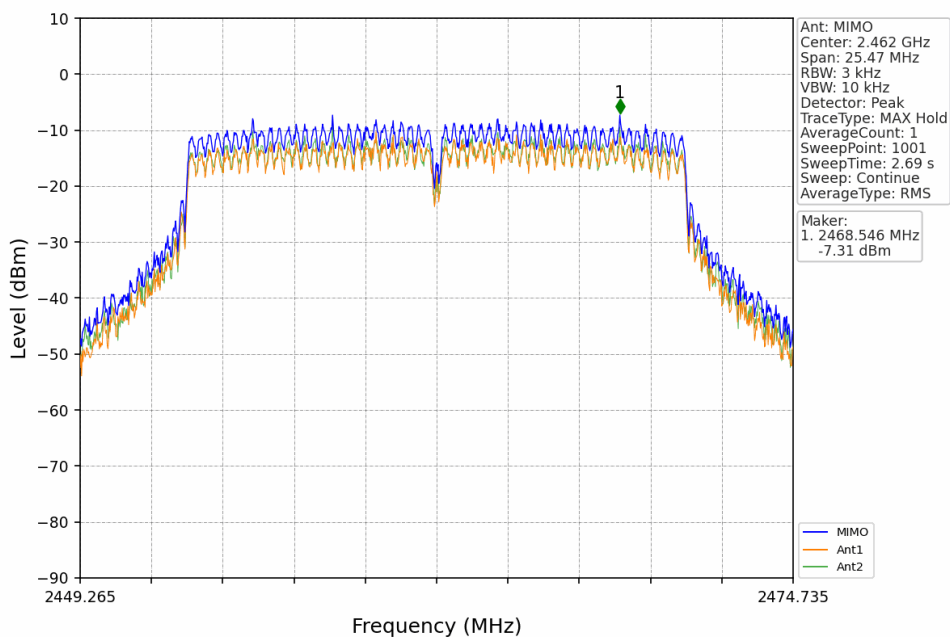
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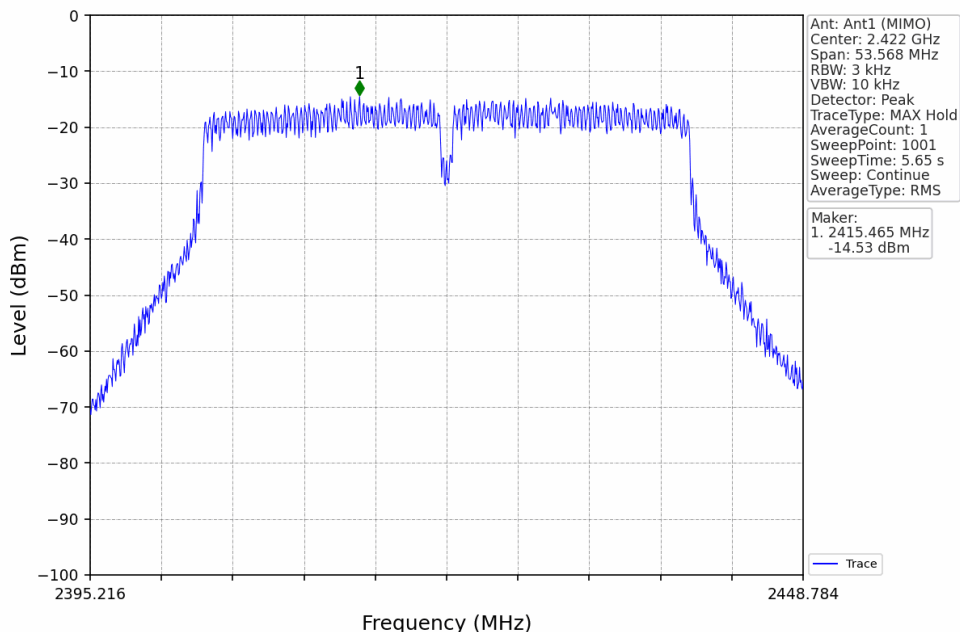
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



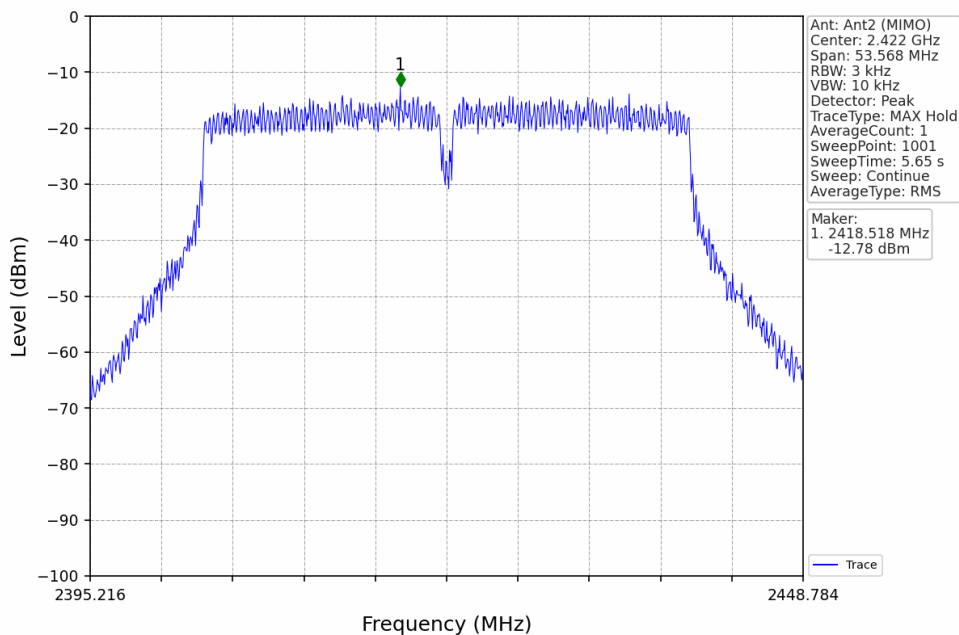
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



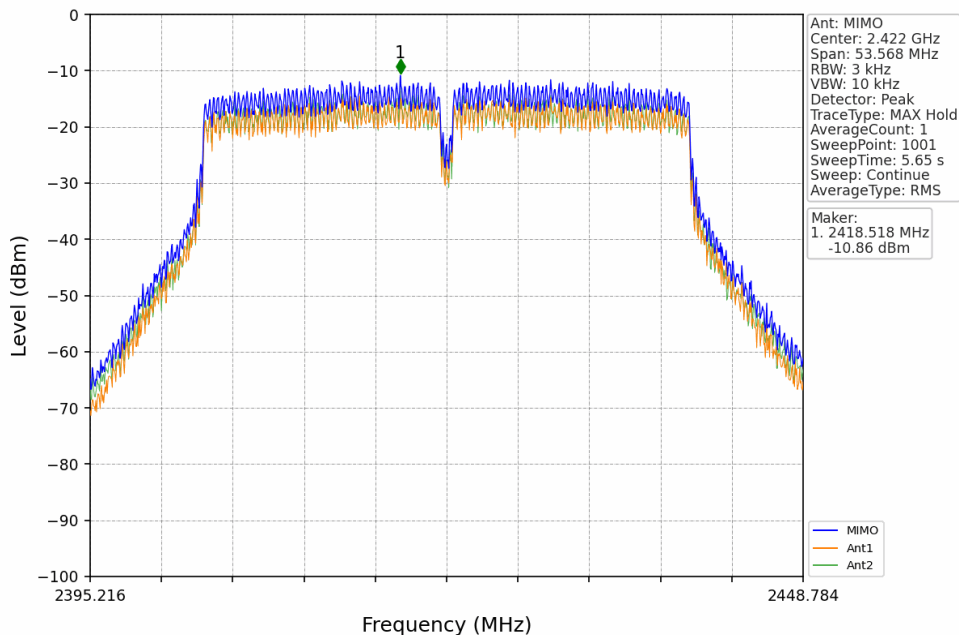
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



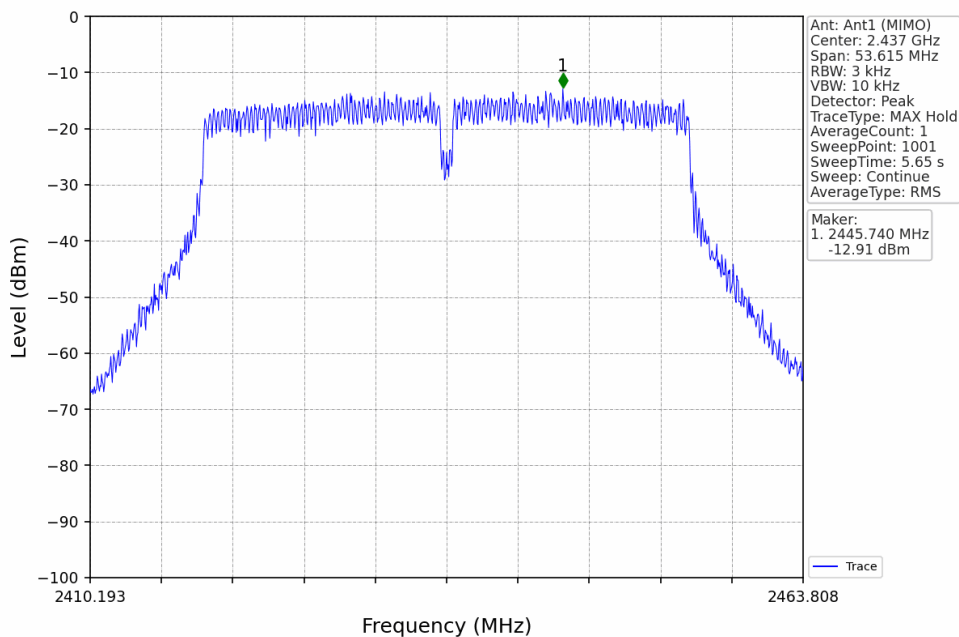
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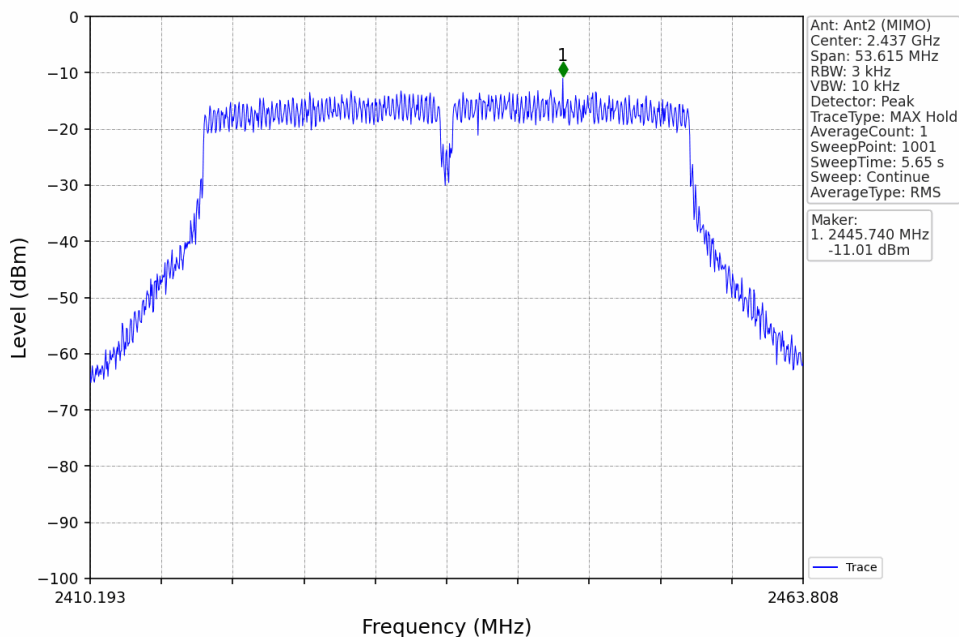
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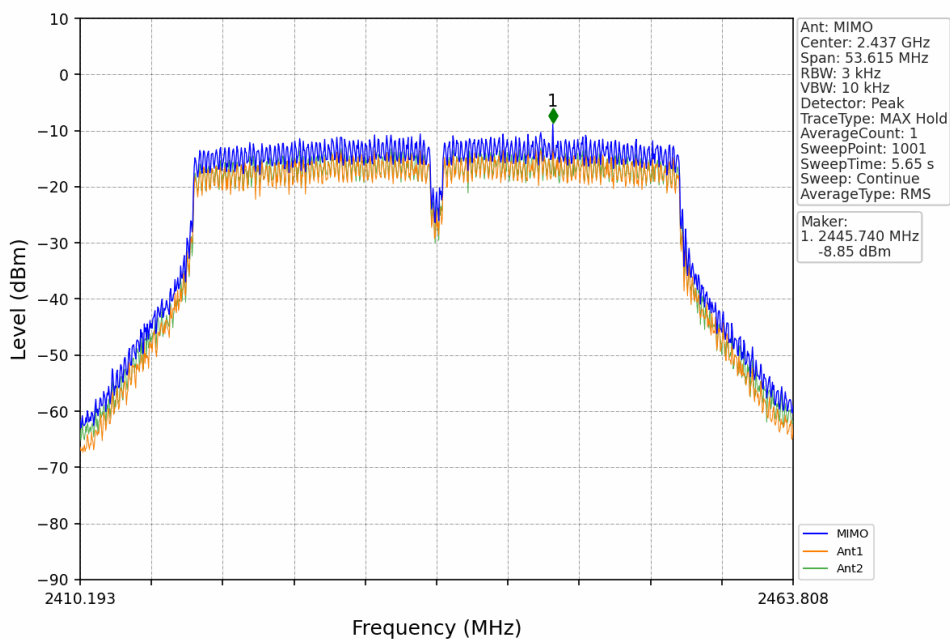
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV

