

1. Bandwidth

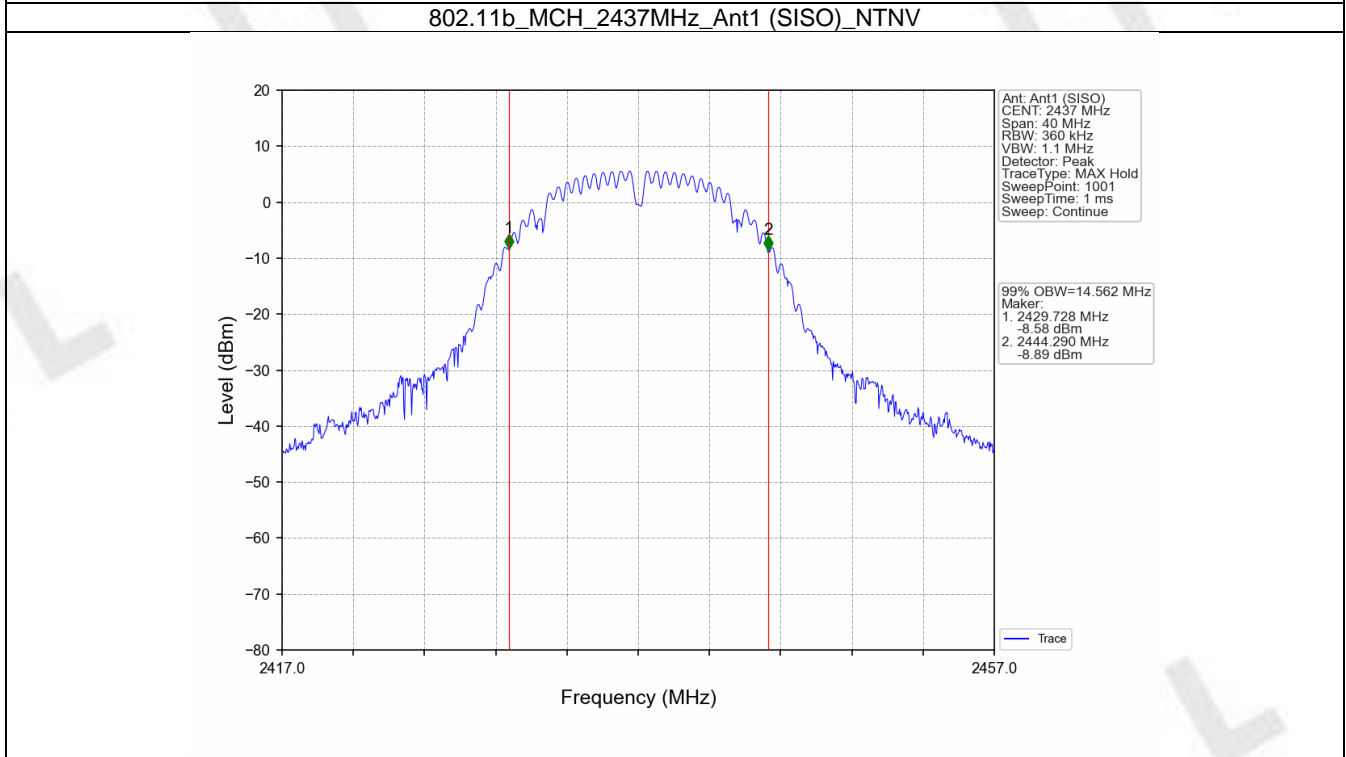
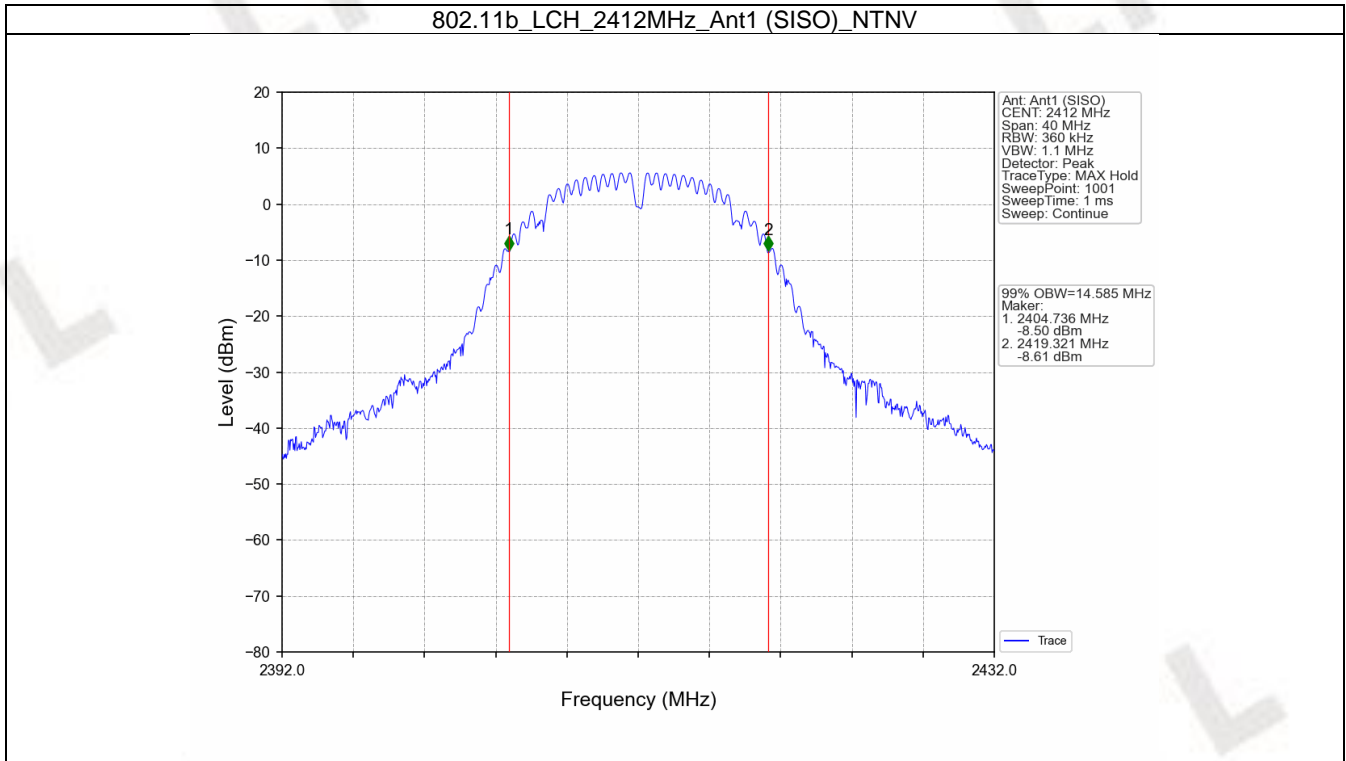
1.1 OBW

1.1.1 Test Result

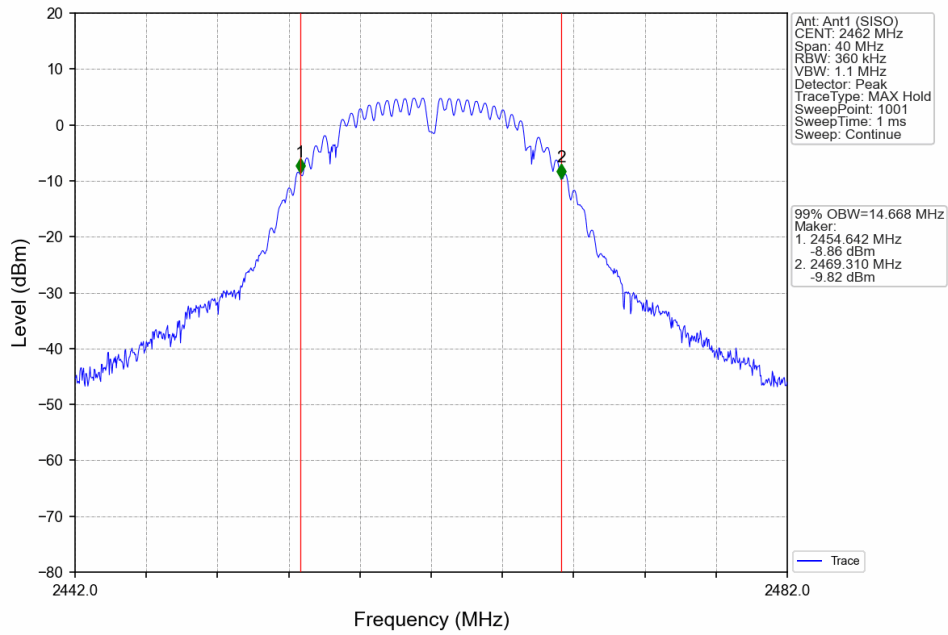
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.585	Pass
		2437	1	14.562	Pass
		2462	1	14.668	Pass
802.11g	SISO	2412	1	17.262	Pass
		2437	1	17.252	Pass
		2462	1	17.242	Pass
802.11n (HT20)	SISO	2412	1	18.394	Pass
		2437	1	18.421	Pass
		2462	1	18.403	Pass
802.11n (HT40)	SISO	2422	1	36.554	Pass
		2437	1	36.652	Pass
		2452	1	36.581	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	2	14.551	Pass
		2437	2	14.533	Pass
		2462	2	14.622	Pass
802.11g	SISO	2412	2	17.287	Pass
		2437	2	17.283	Pass
		2462	2	17.206	Pass
802.11n (HT20)	SISO	2412	2	18.405	Pass
		2437	2	18.450	Pass
		2462	2	18.357	Pass
802.11n (HT40)	SISO	2422	2	36.427	Pass
		2437	2	36.815	Pass
		2452	2	36.745	Pass

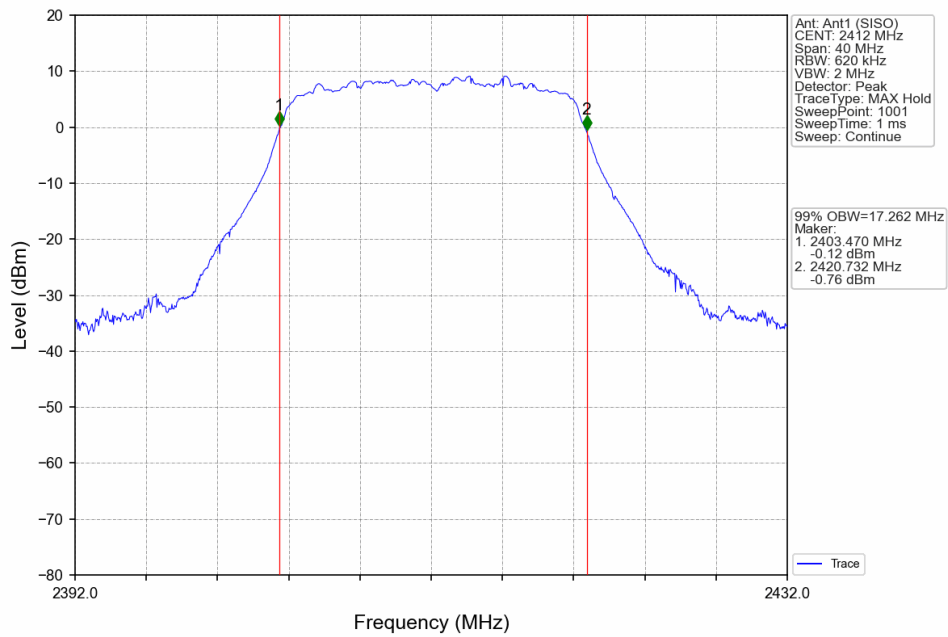
1.1.2 Test Graph

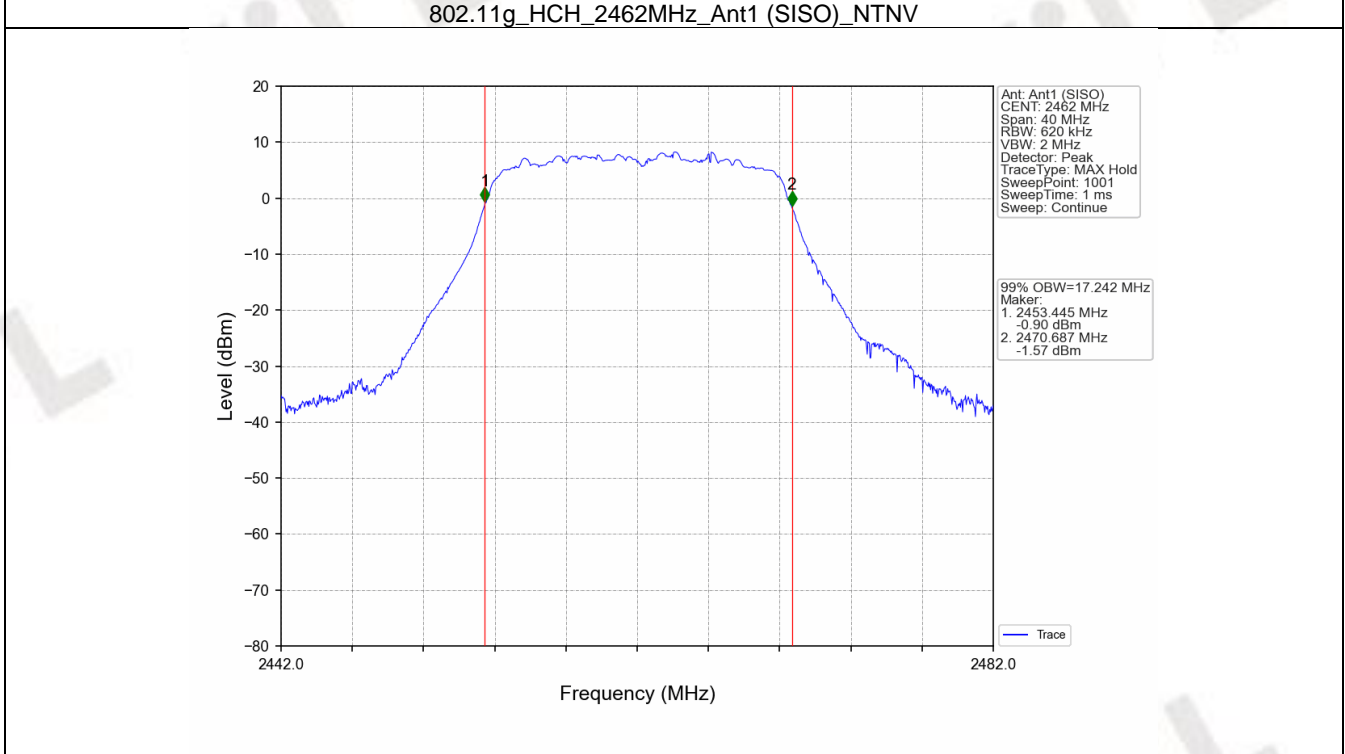
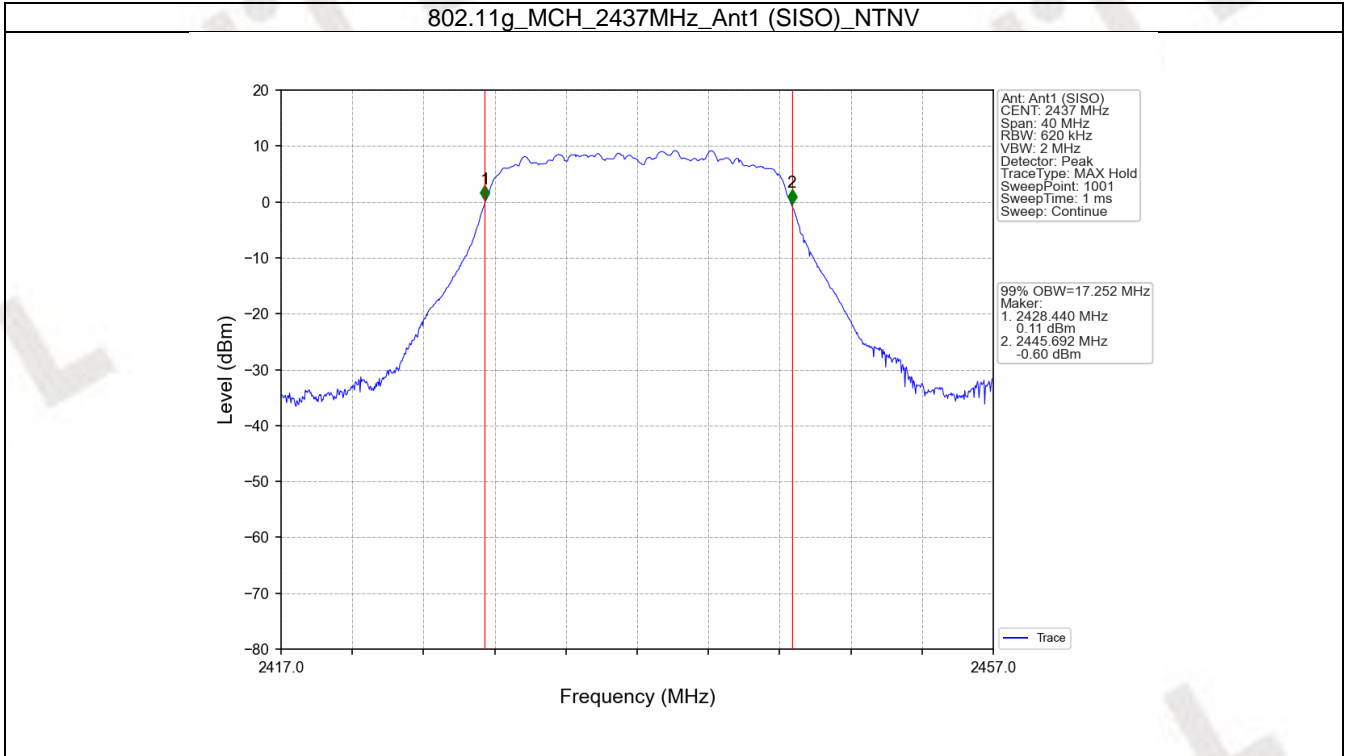


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

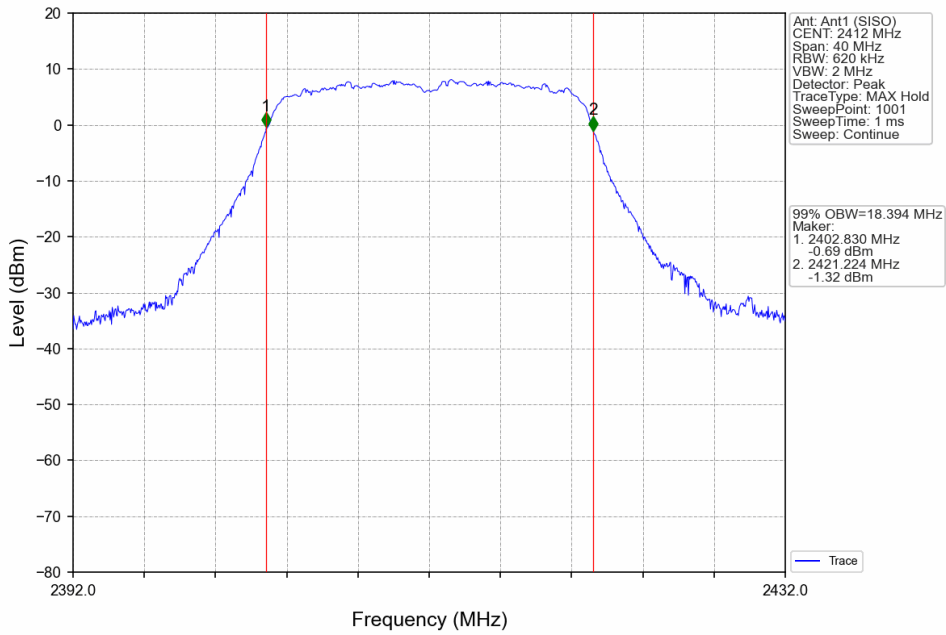


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

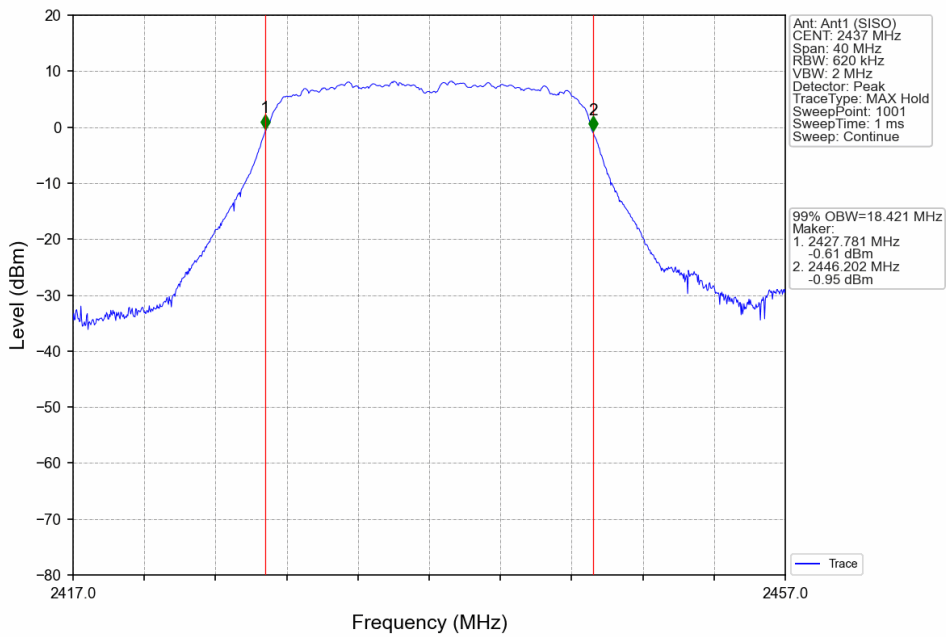




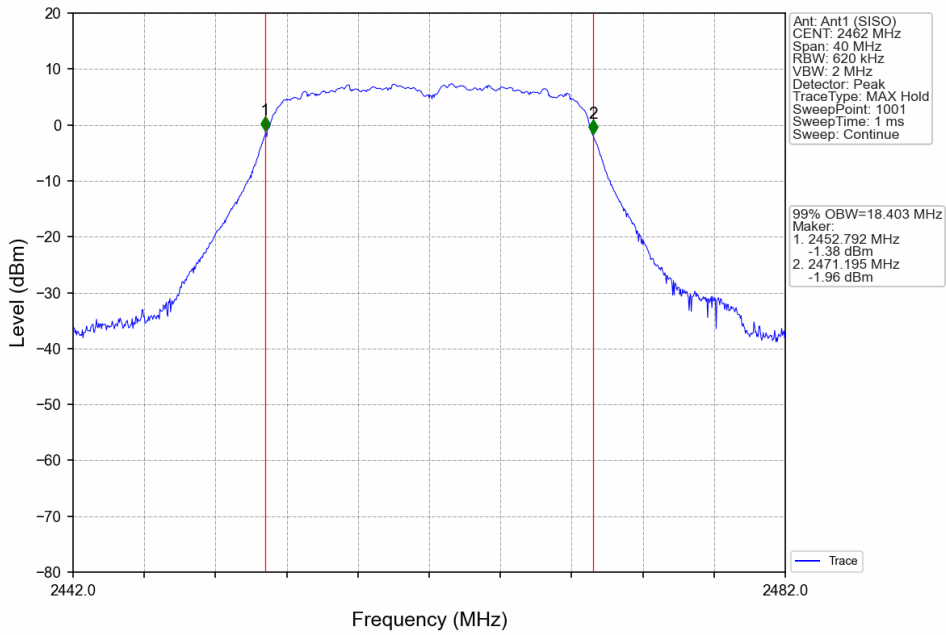
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



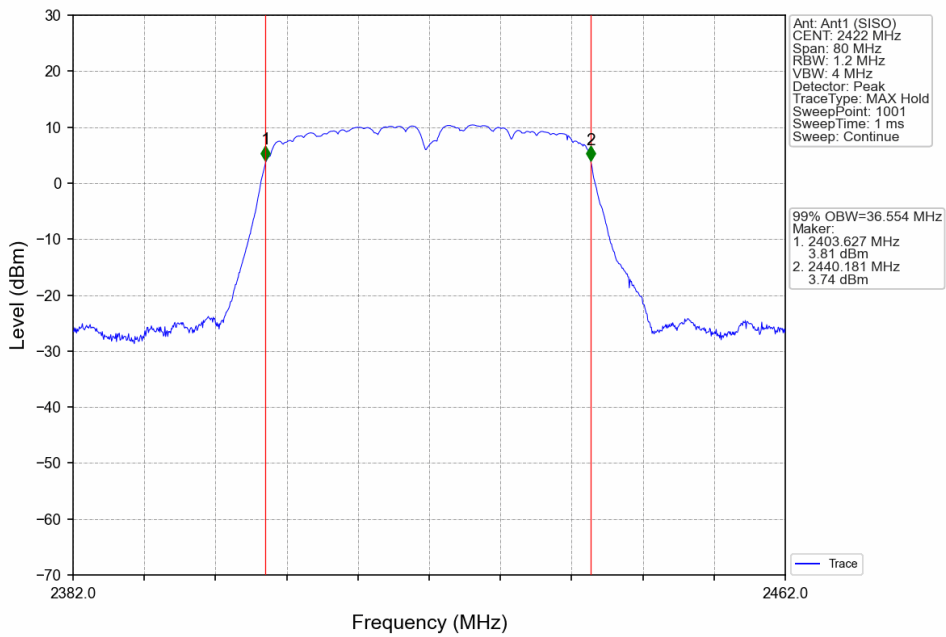
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



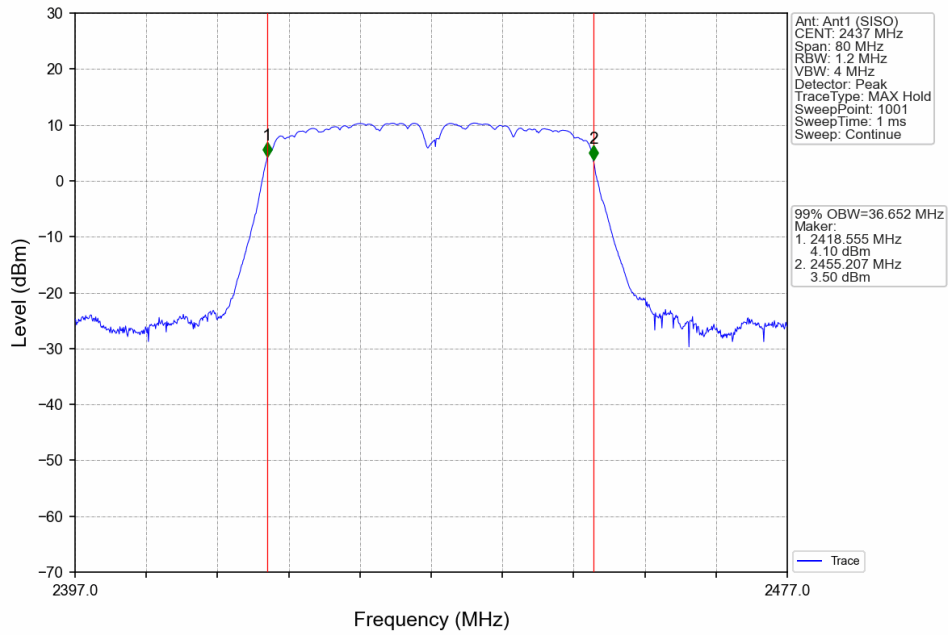
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



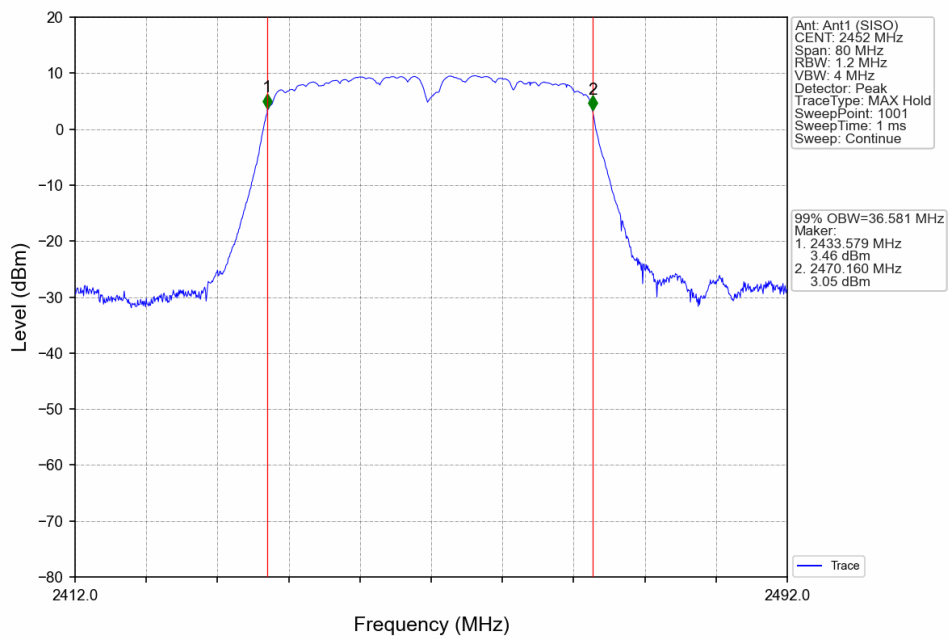
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



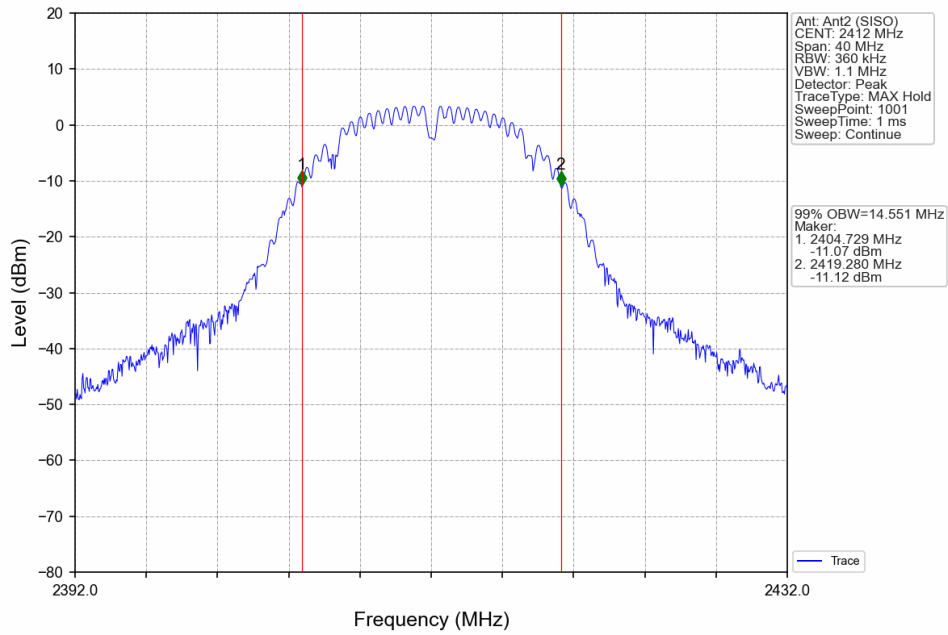
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



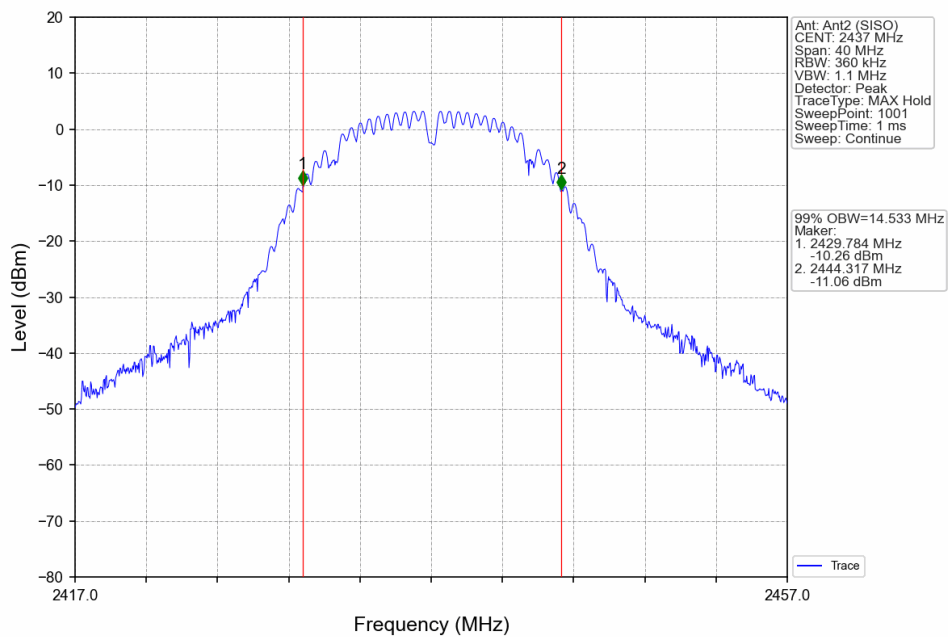
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



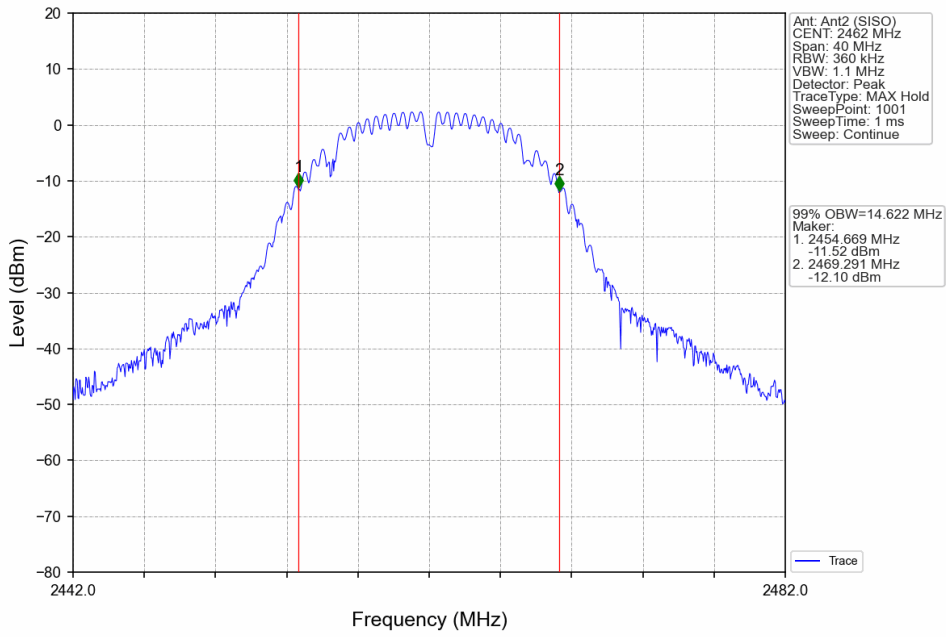
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



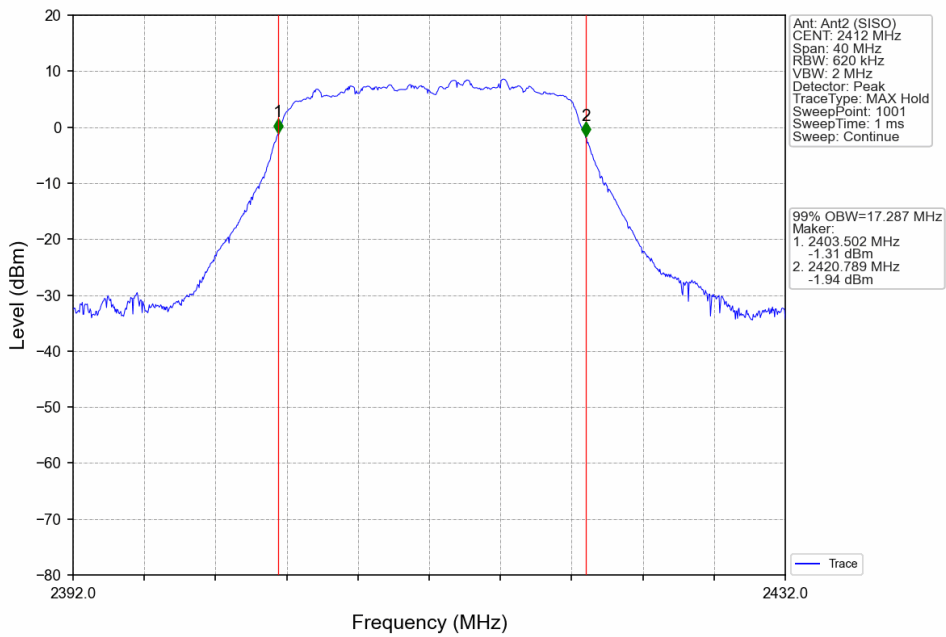
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



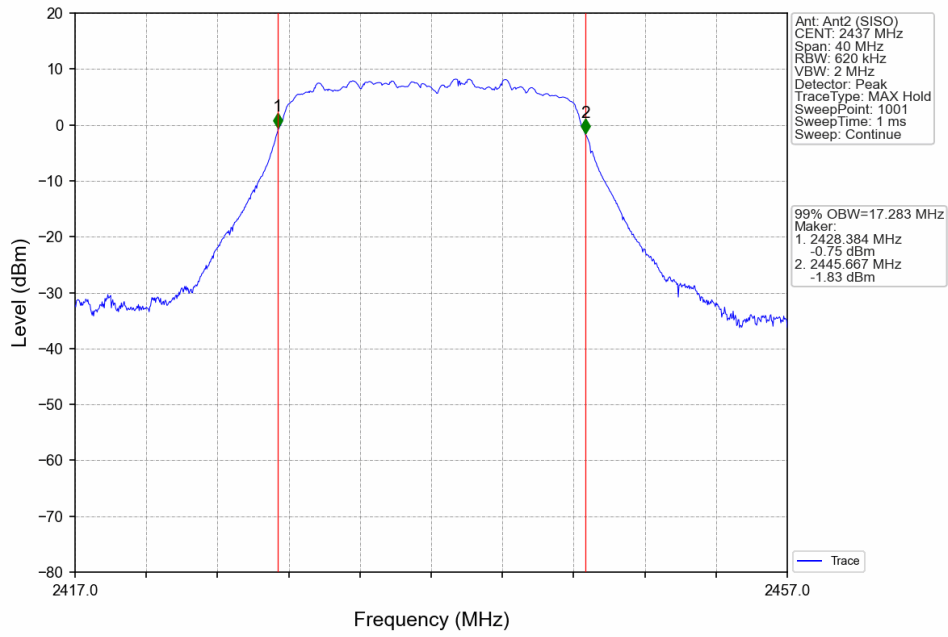
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



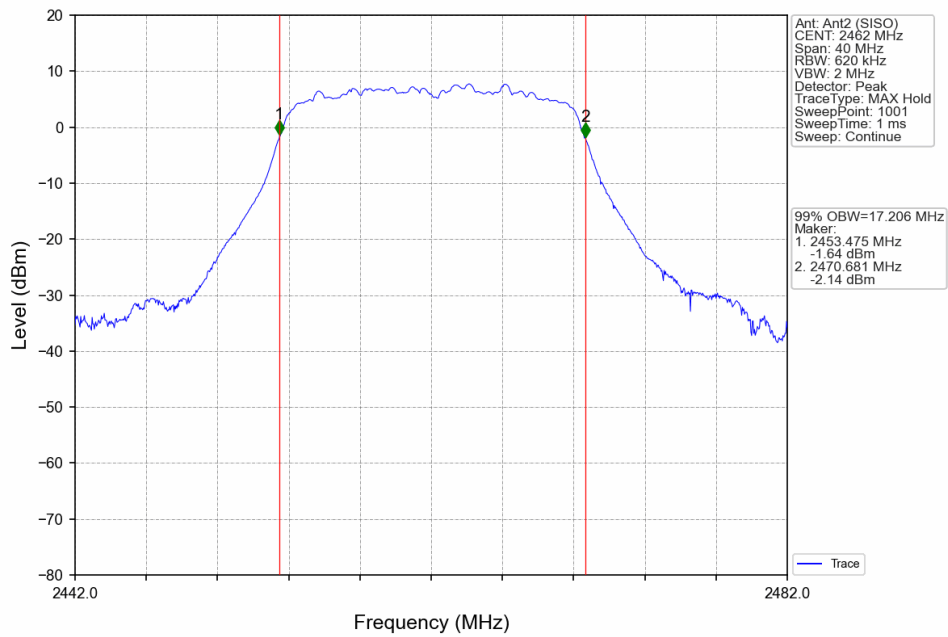
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



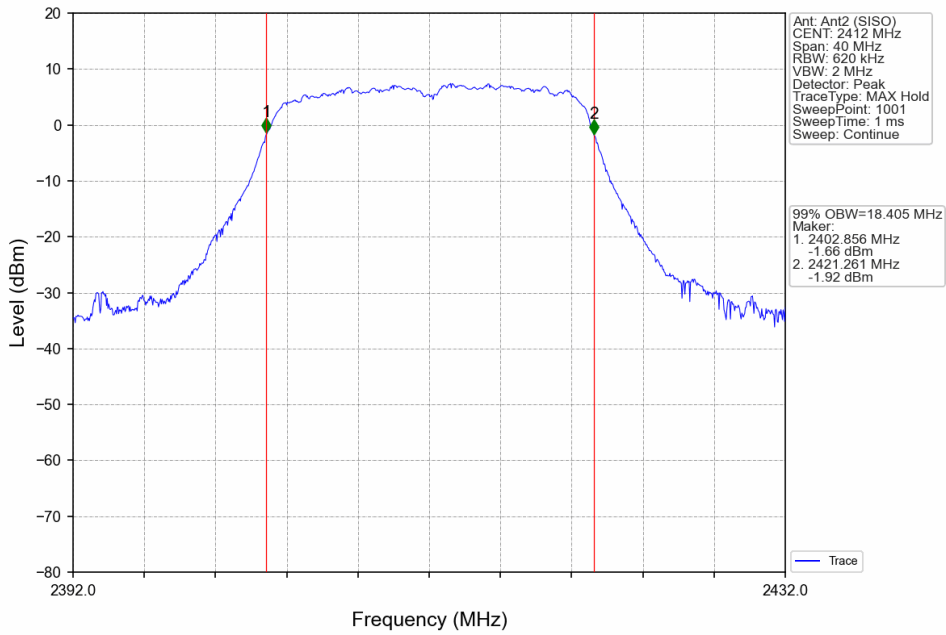
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



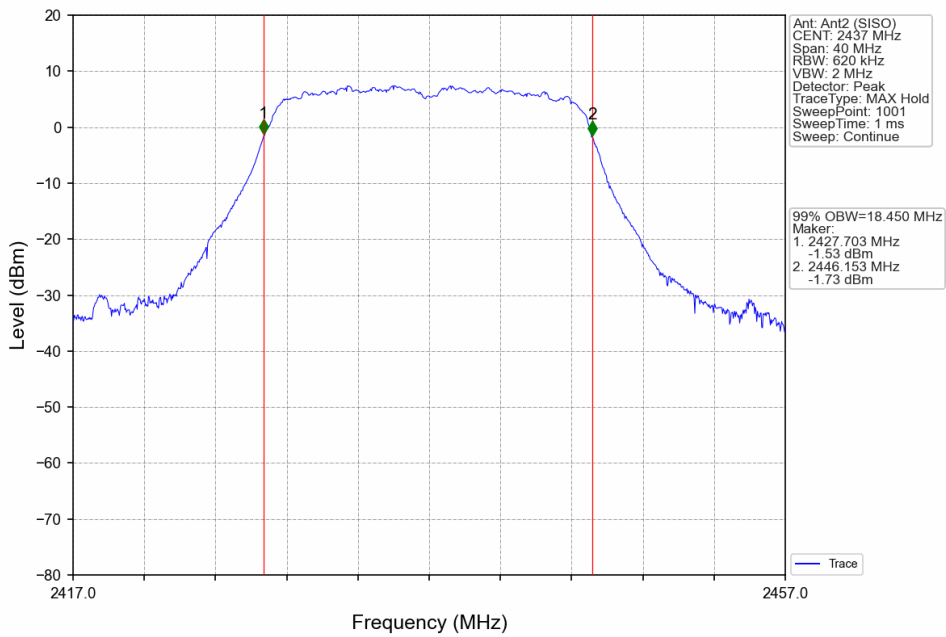
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



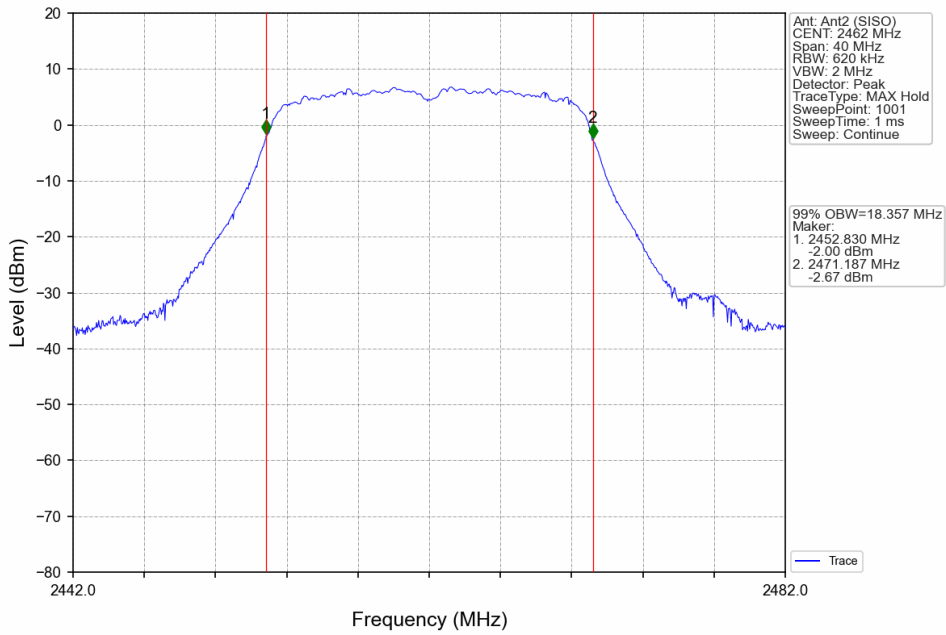
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



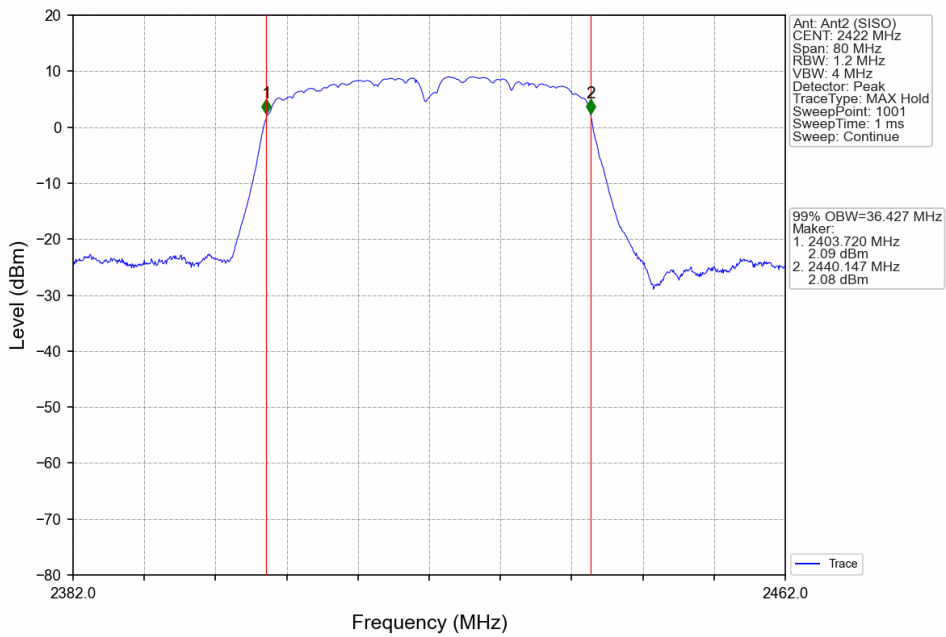
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



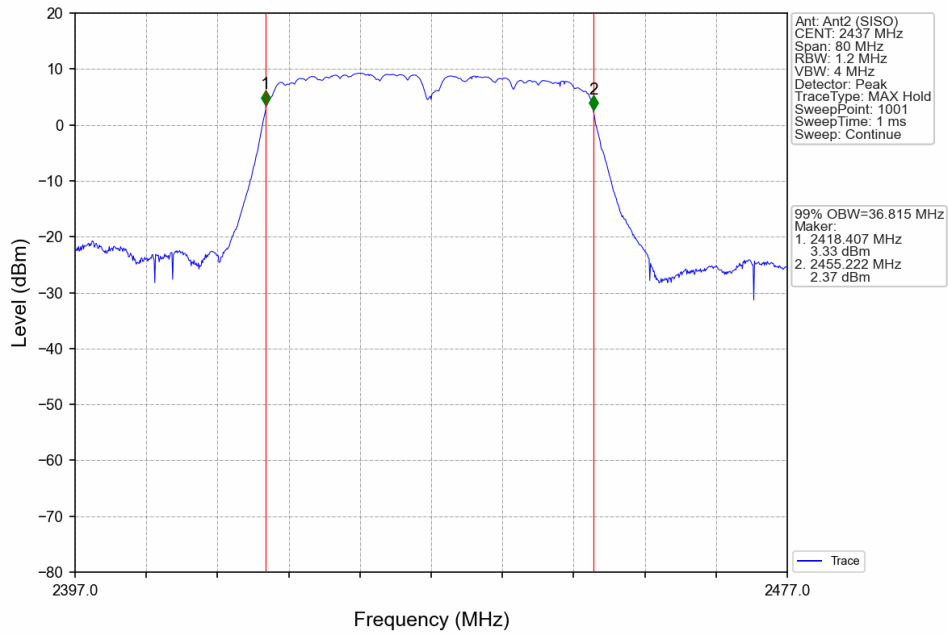
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



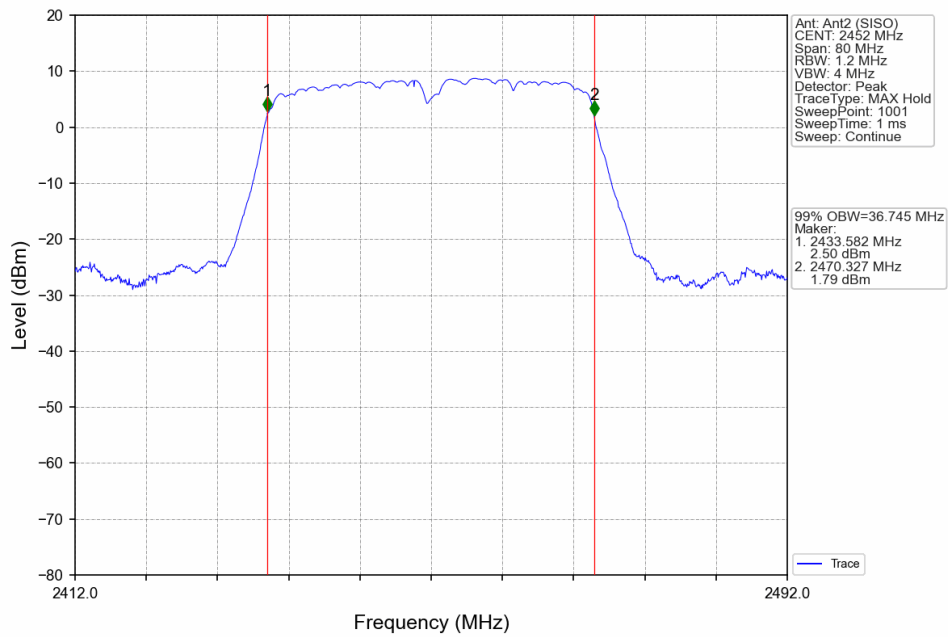
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



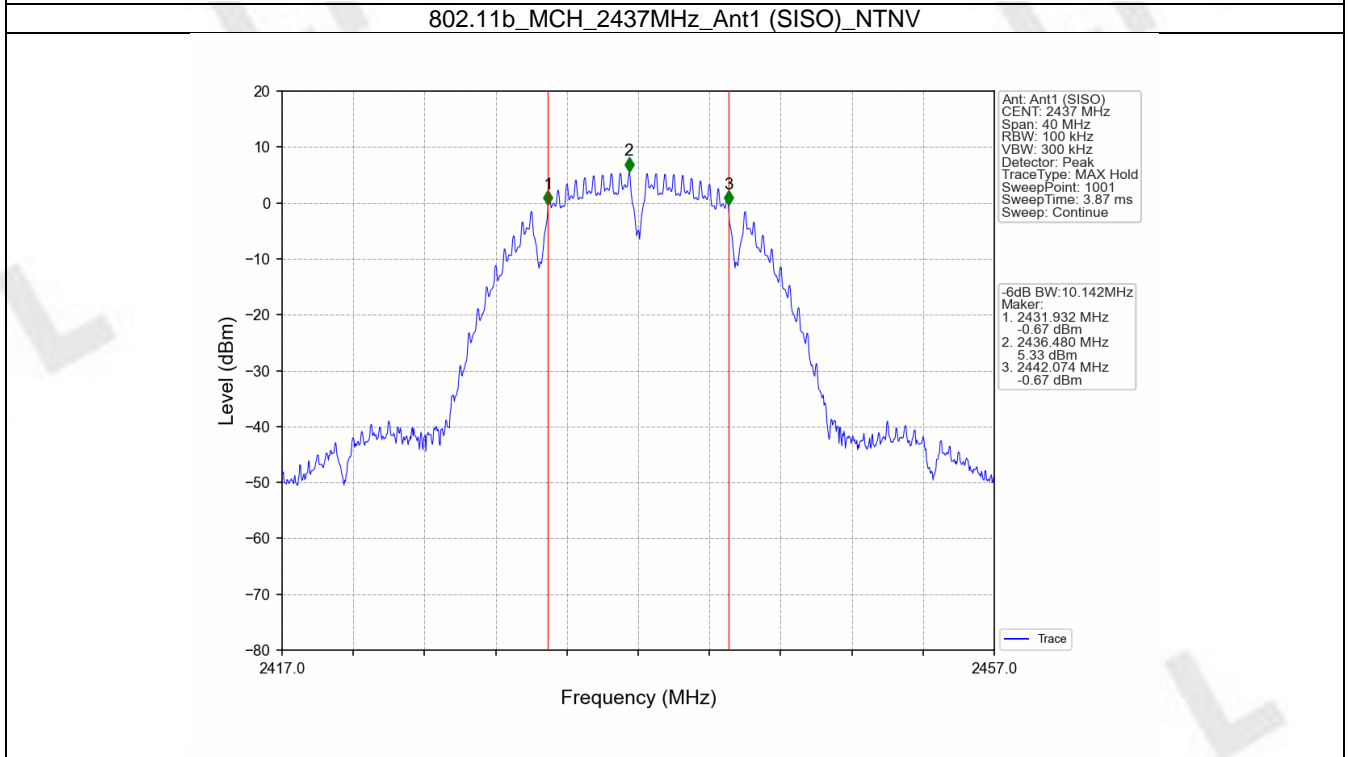
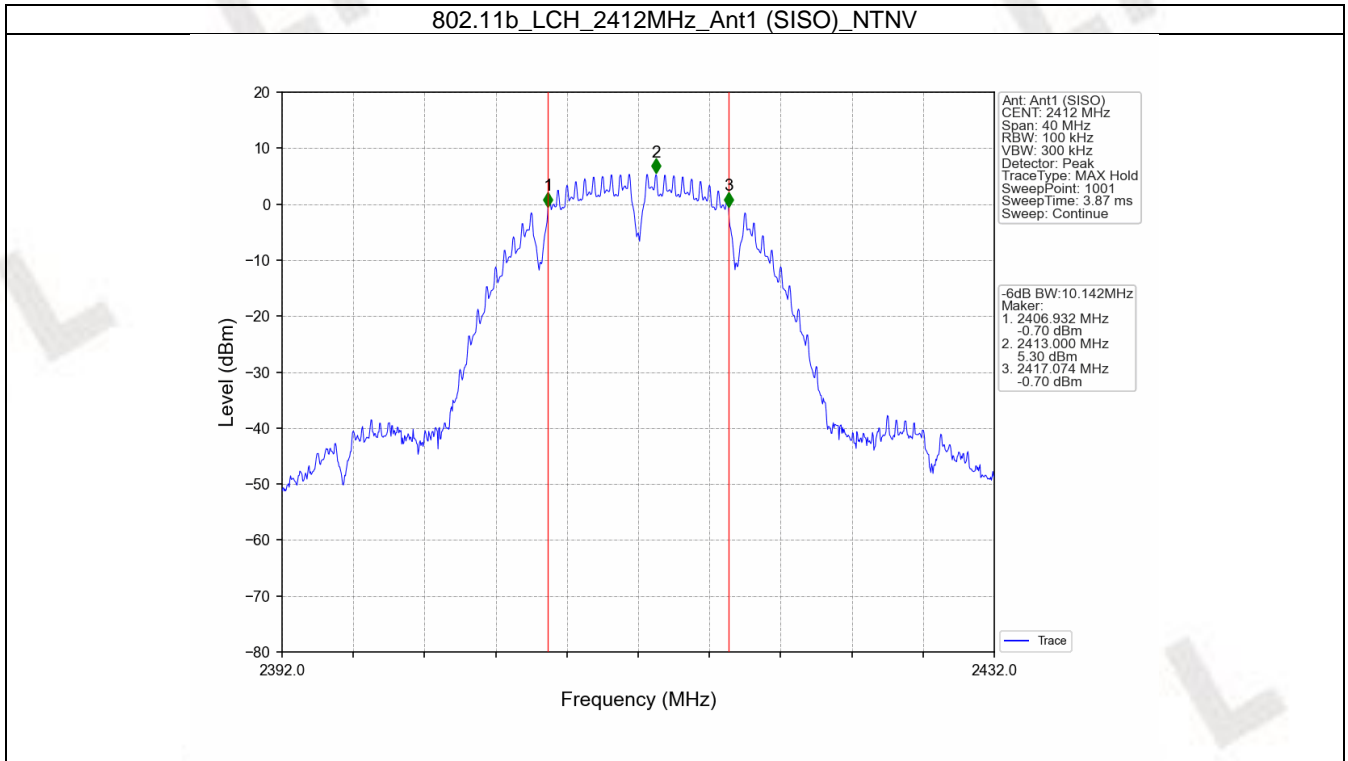
1.2 6dB BW

1.2.1 Test Result

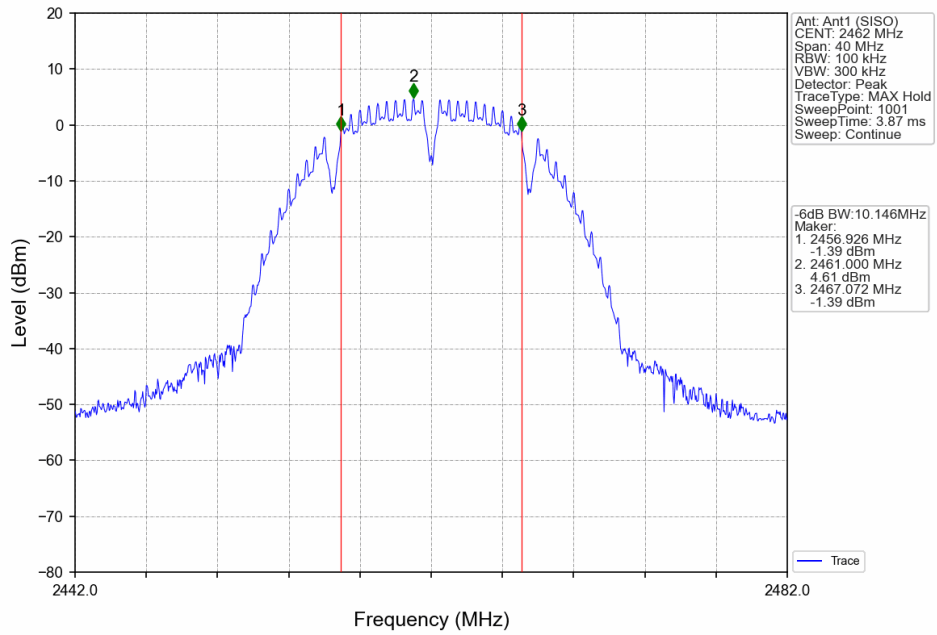
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.142	>=0.5	Pass
		2437	1	10.142	>=0.5	Pass
		2462	1	10.146	>=0.5	Pass
802.11g	SISO	2412	1	15.820	>=0.5	Pass
		2437	1	15.718	>=0.5	Pass
		2462	1	15.655	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.303	>=0.5	Pass
		2437	1	16.958	>=0.5	Pass
		2462	1	16.448	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.193	>=0.5	Pass
		2437	1	35.503	>=0.5	Pass
		2452	1	35.505	>=0.5	Pass

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	2	10.141	>=0.5	Pass
		2437	2	10.137	>=0.5	Pass
		2462	2	10.146	>=0.5	Pass
802.11g	SISO	2412	2	15.474	>=0.5	Pass
		2437	2	15.698	>=0.5	Pass
		2462	2	15.550	>=0.5	Pass
802.11n (HT20)	SISO	2412	2	16.397	>=0.5	Pass
		2437	2	16.459	>=0.5	Pass
		2462	2	15.388	>=0.5	Pass
802.11n (HT40)	SISO	2422	2	35.166	>=0.5	Pass
		2437	2	35.527	>=0.5	Pass
		2452	2	35.398	>=0.5	Pass

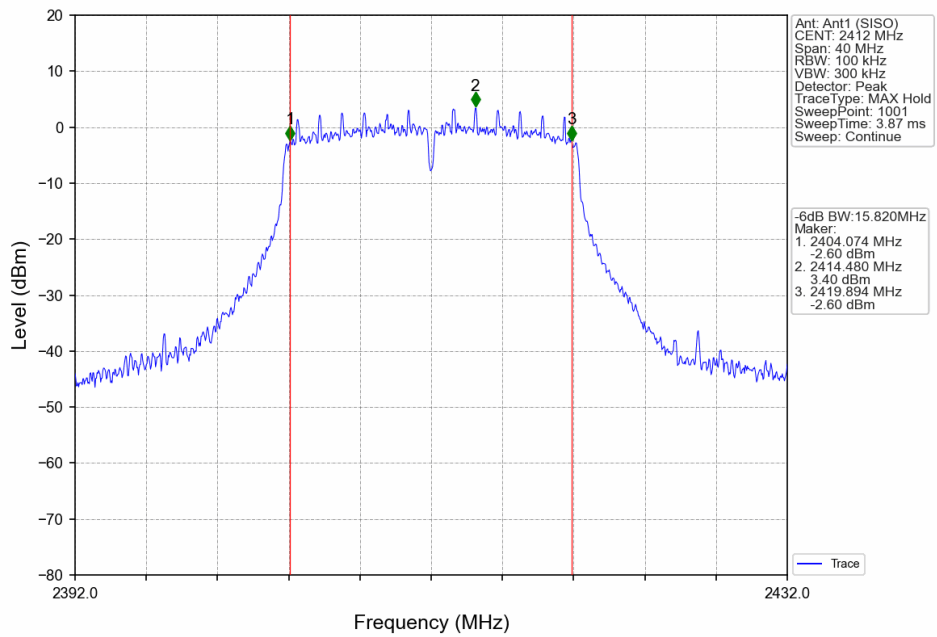
1.2.2 Test Graph



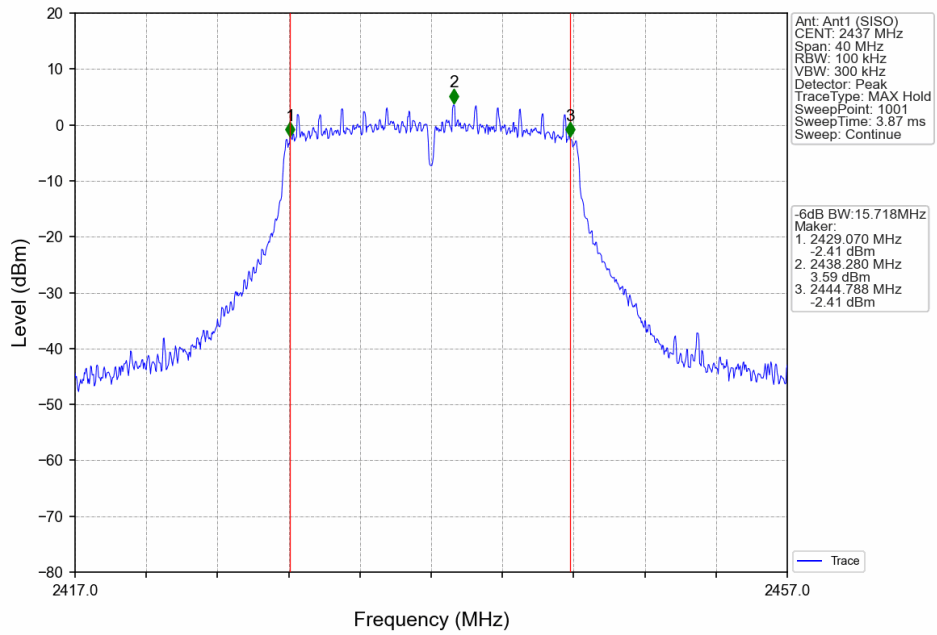
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



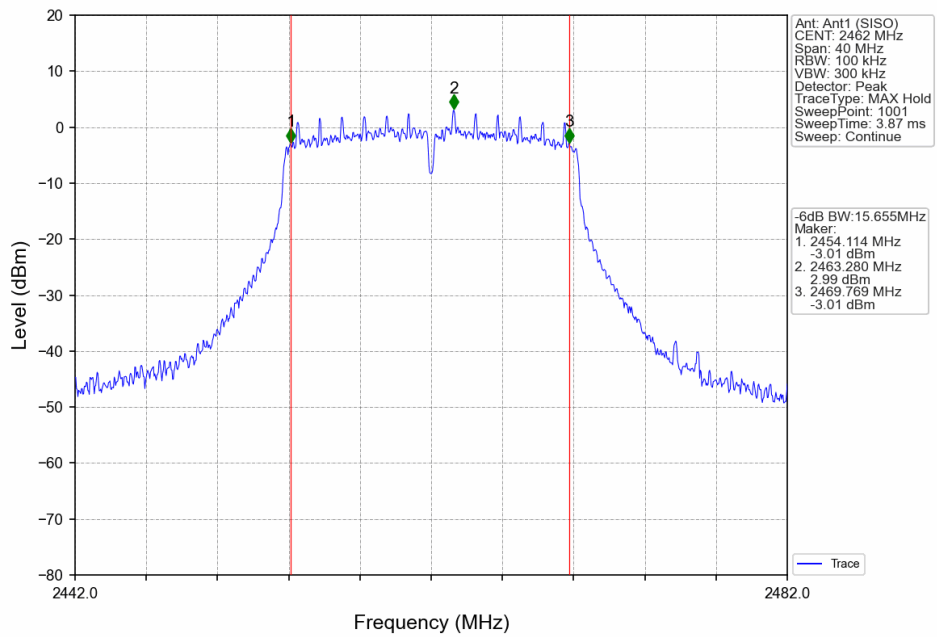
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



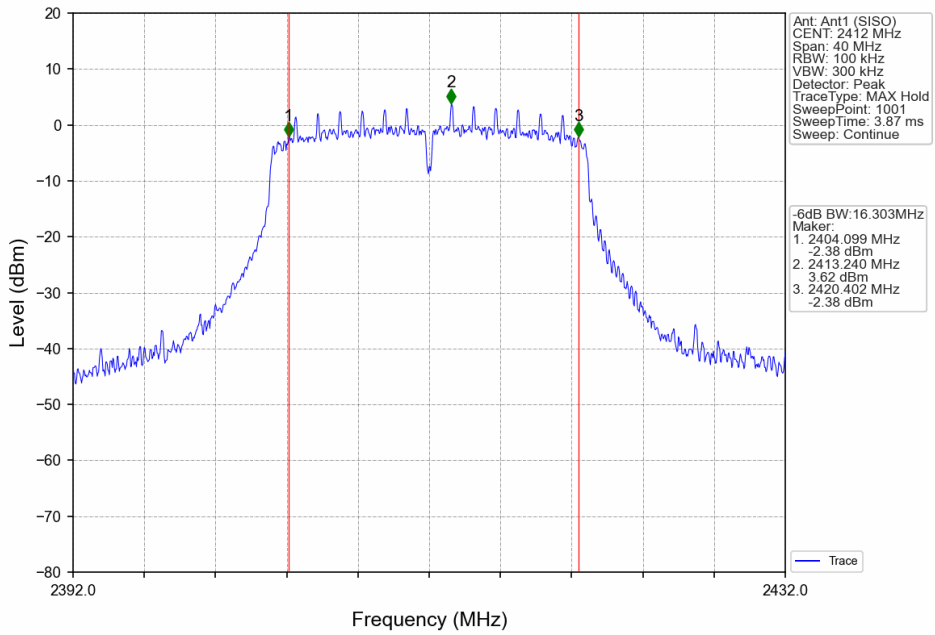
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



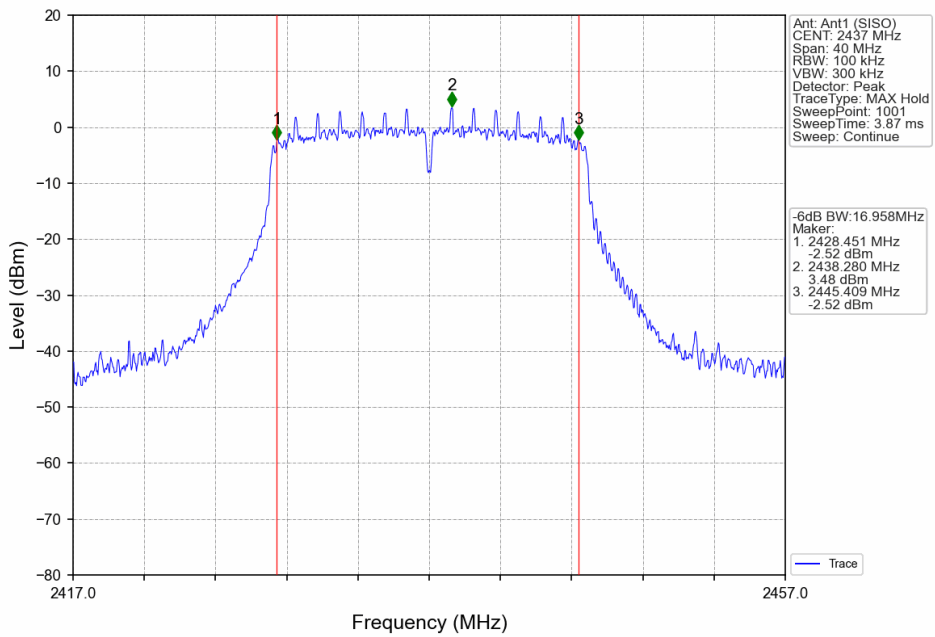
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



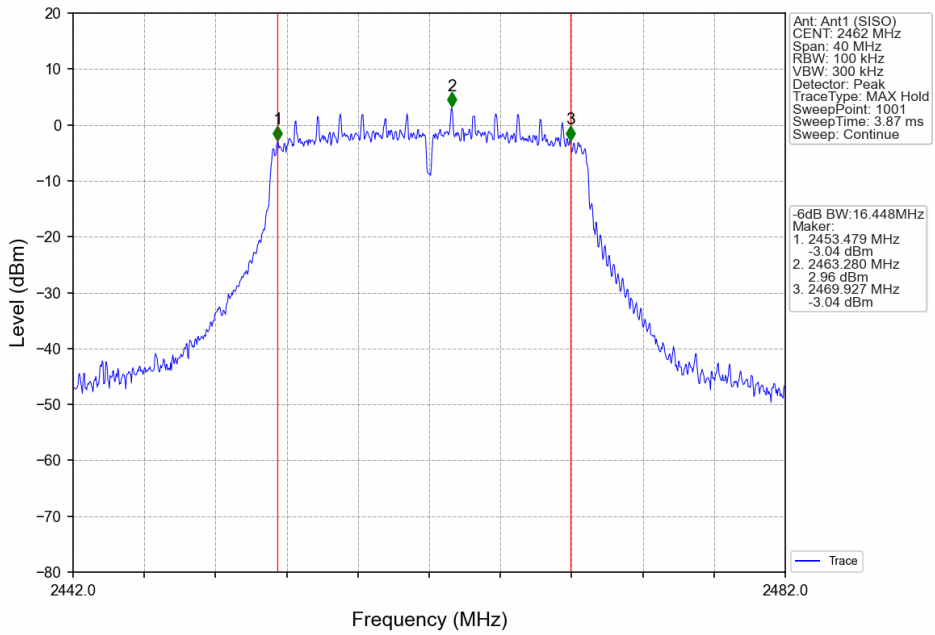
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



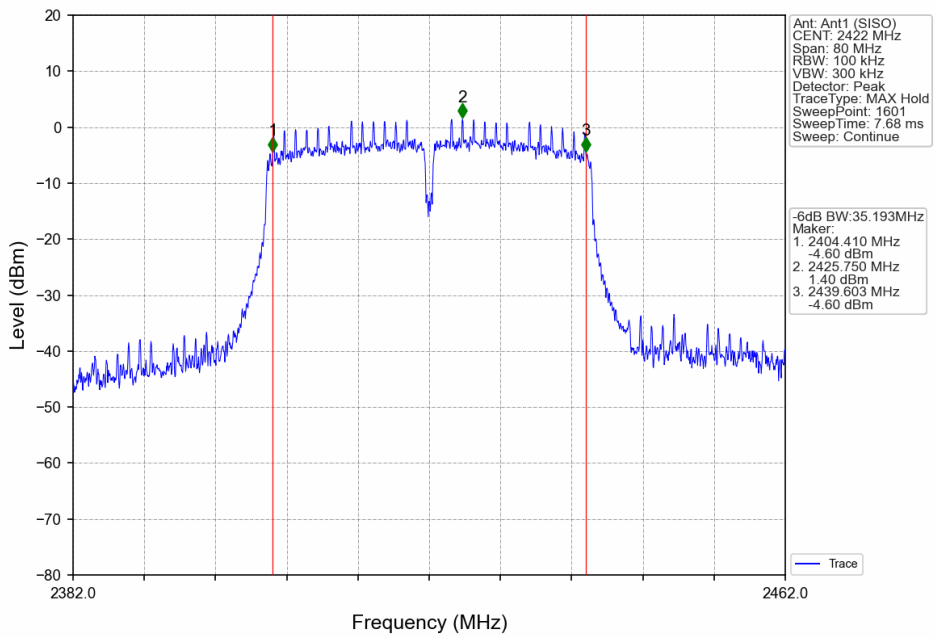
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



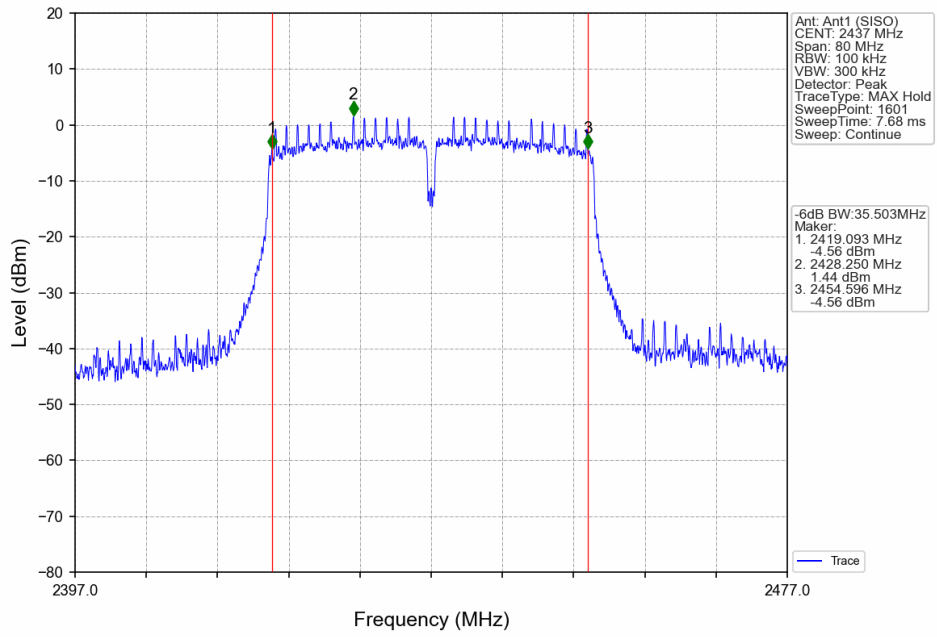
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



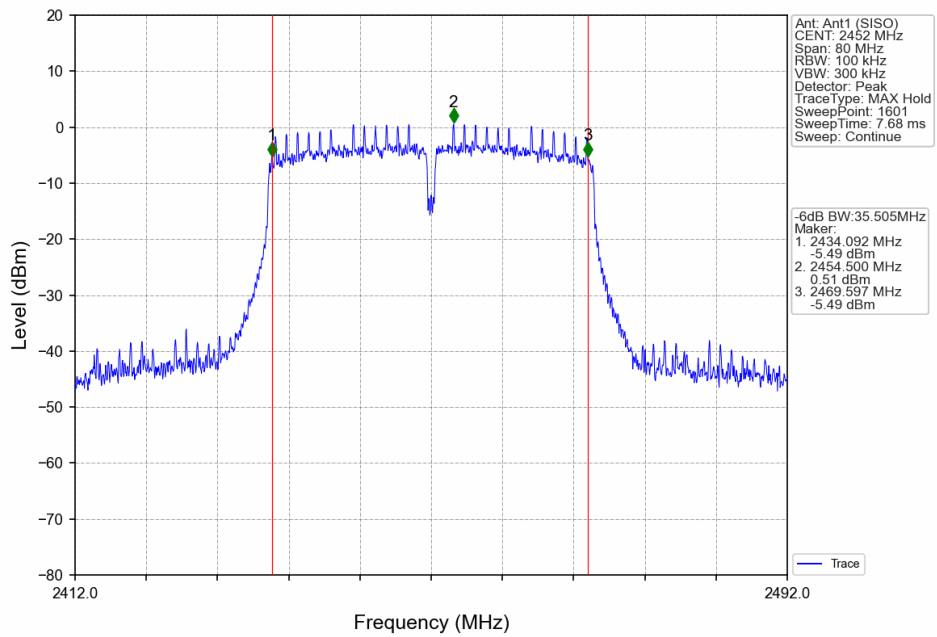
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



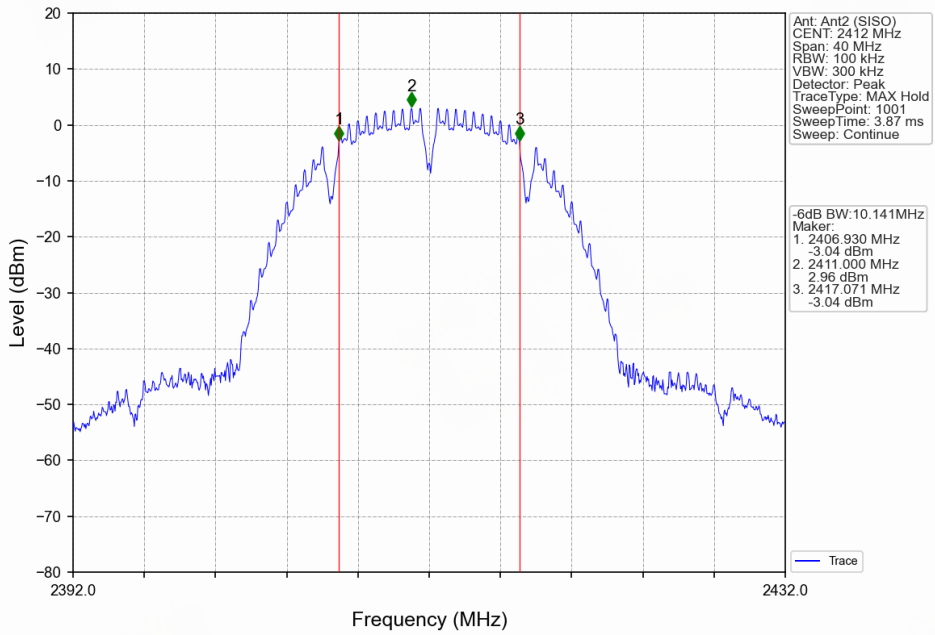
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



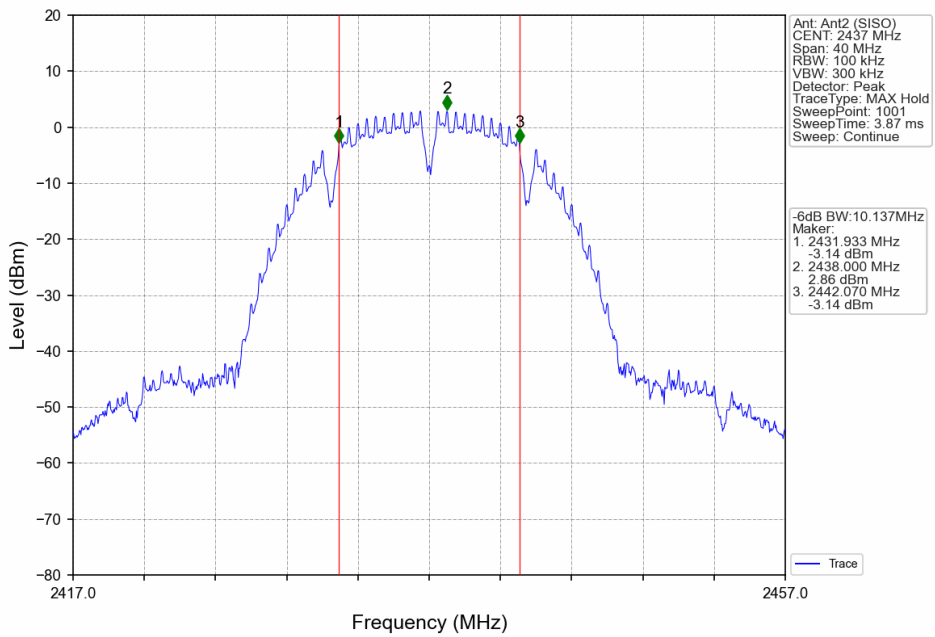
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



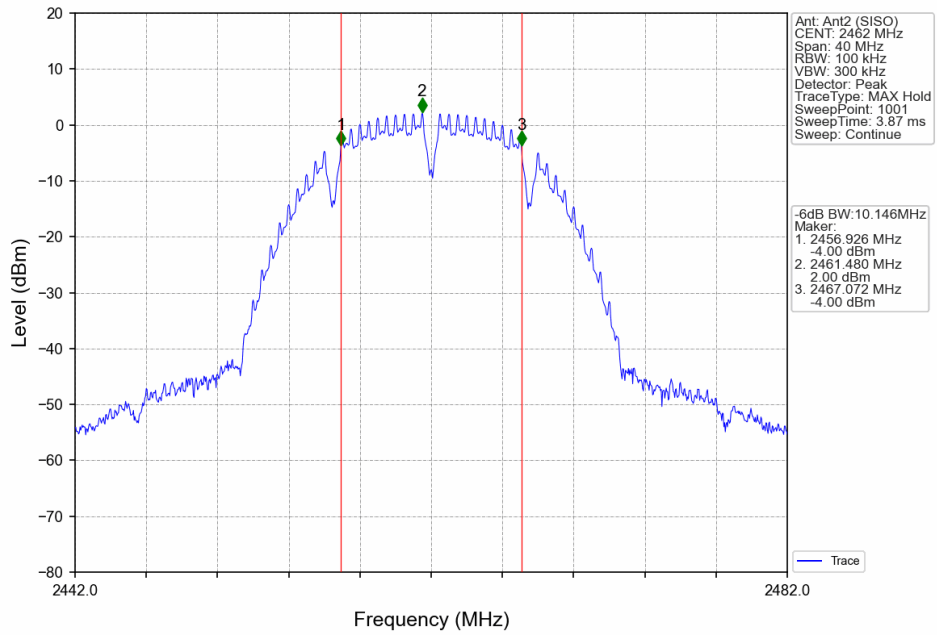
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV



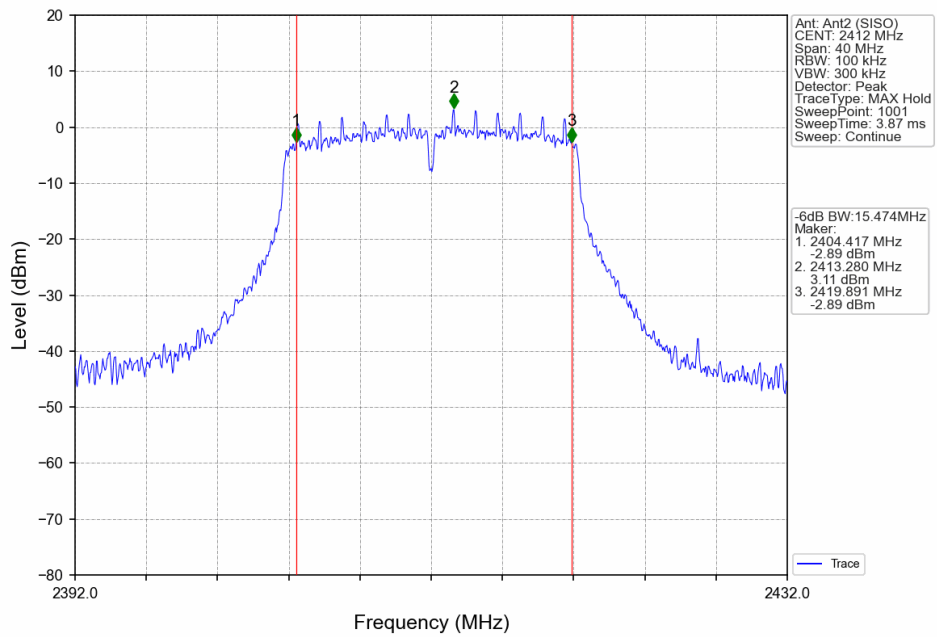
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV

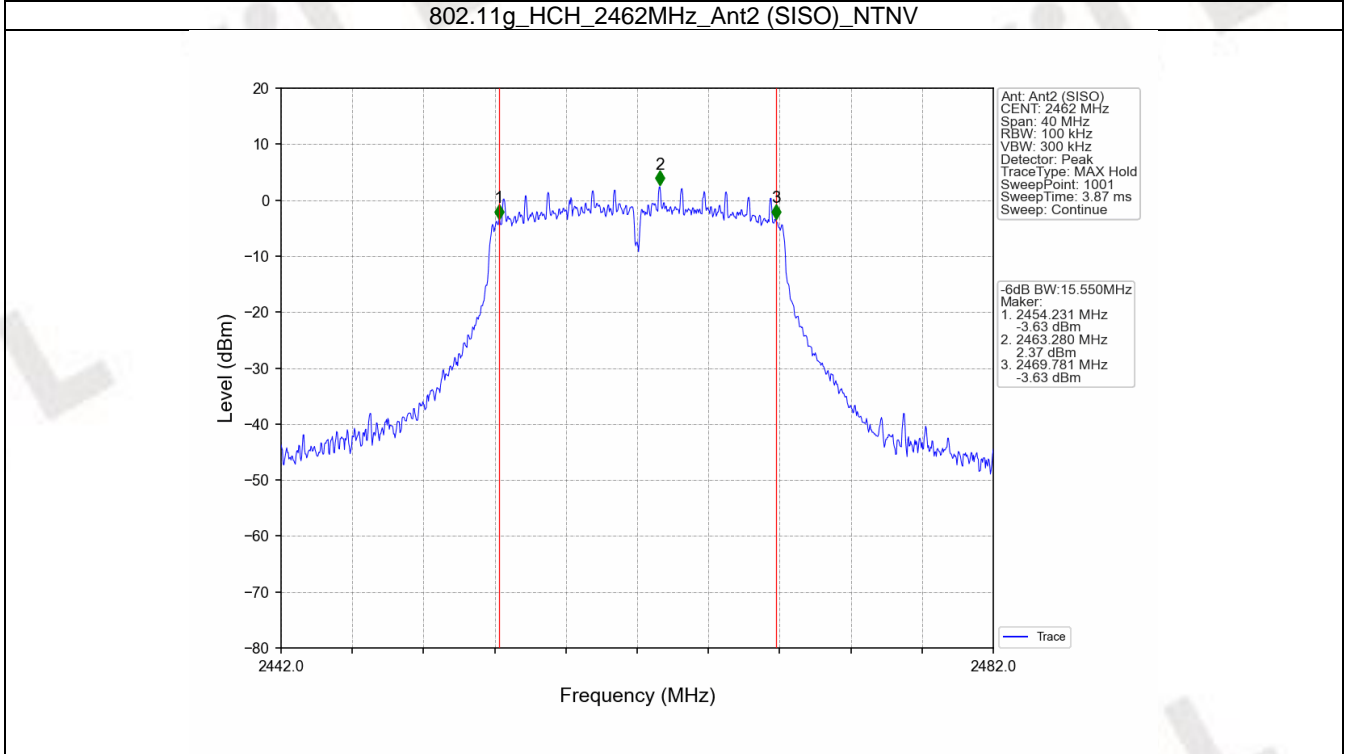
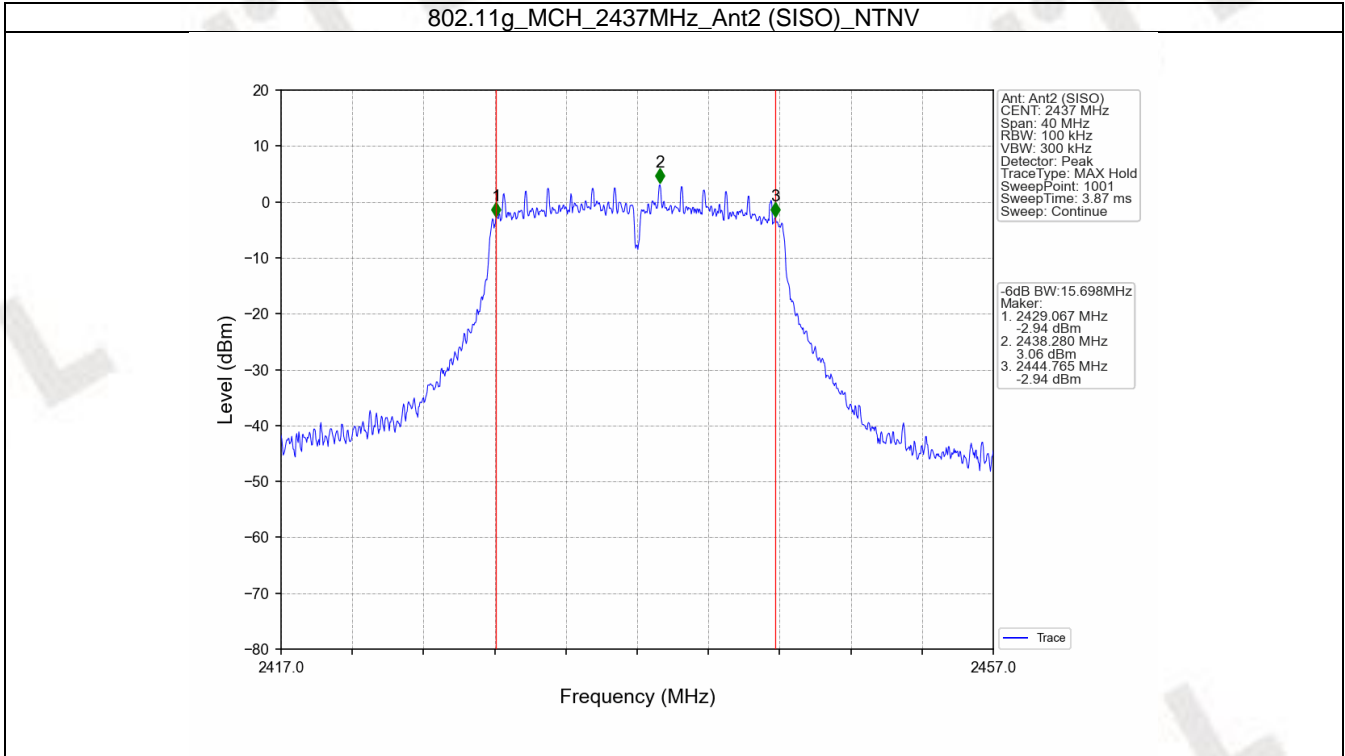


802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

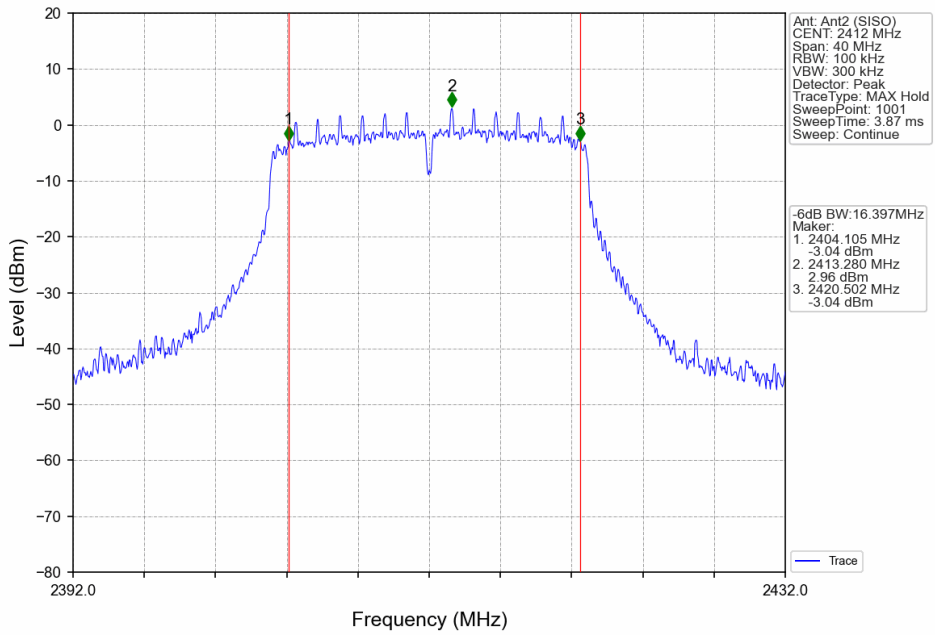


802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV

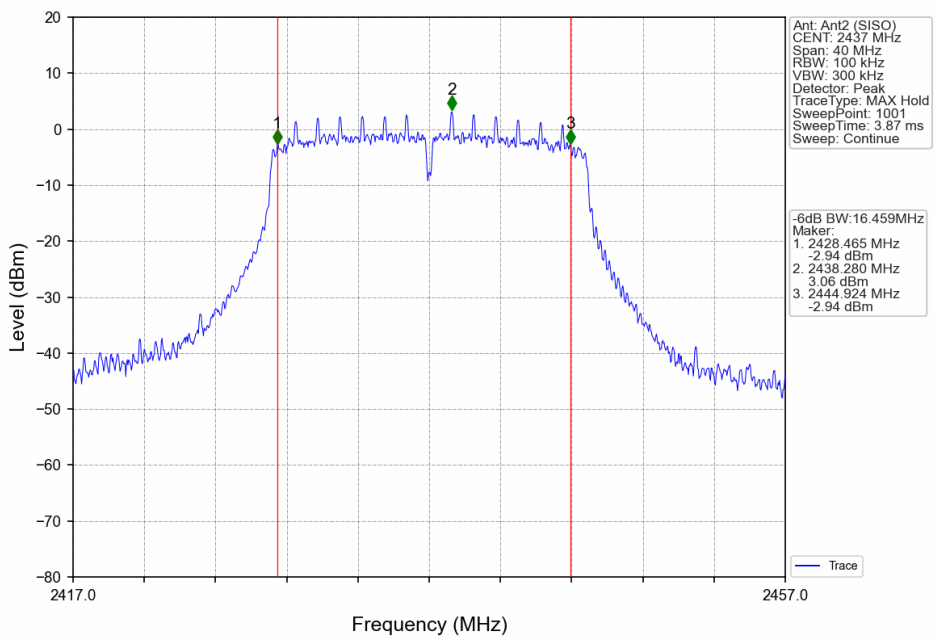




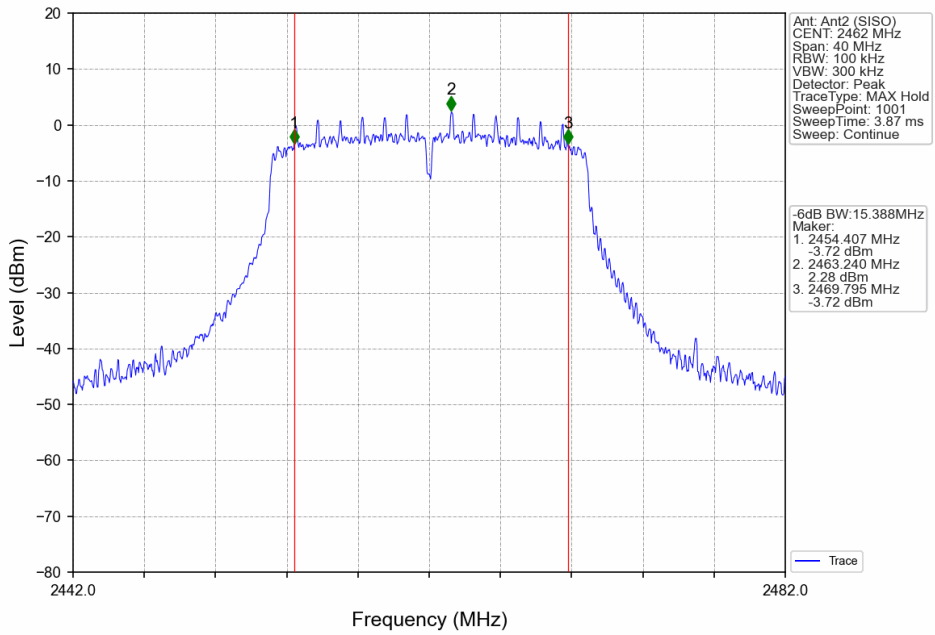
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



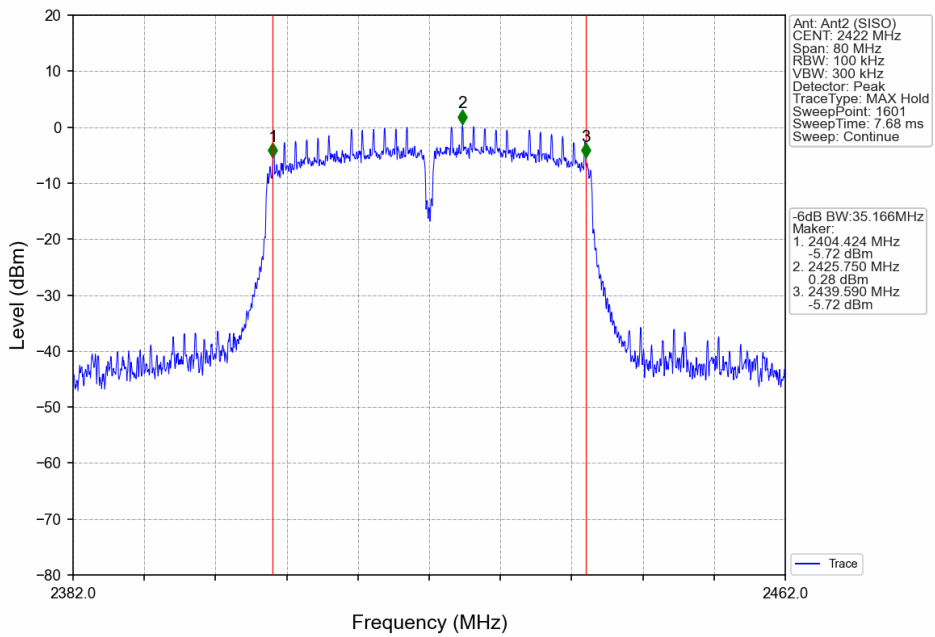
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



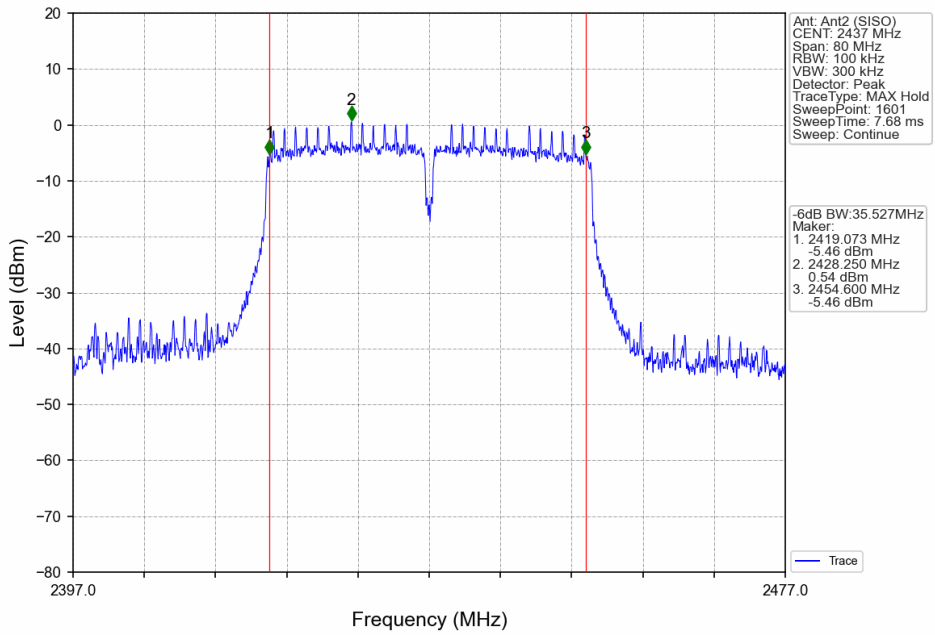
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



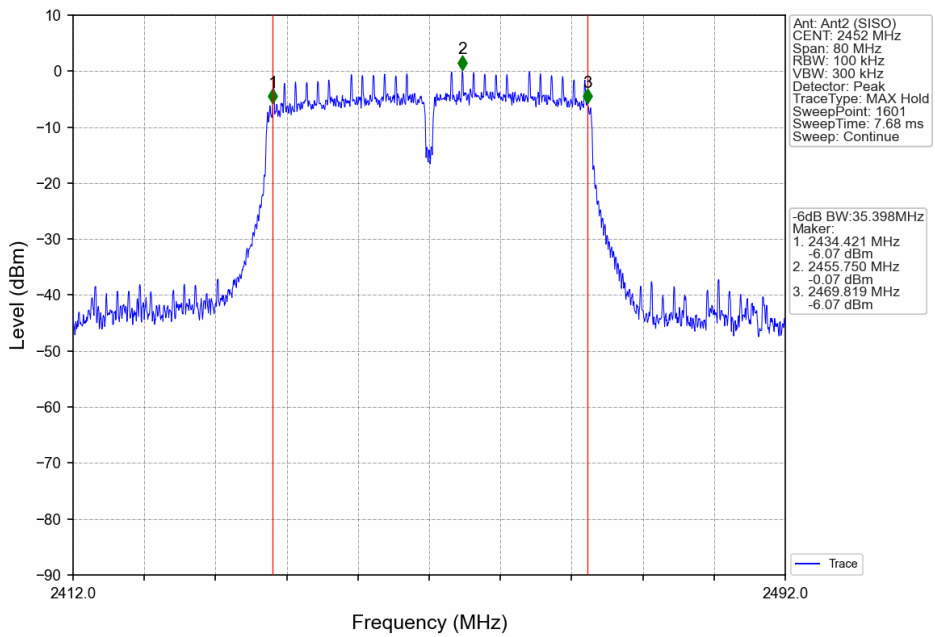
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	14.46	12.82	/	<=30	Pass
		2437	14.63	12.39	/	<=30	Pass
		2462	13.91	11.82	/	<=30	Pass
802.11g	SISO	2412	14.36	14.24	/	<=30	Pass
		2437	14.51	14.18	/	<=30	Pass
		2462	13.51	13.47	/	<=30	Pass
802.11n (HT20)	SISO	2412	14.04	15.57	/	<=30	Pass
		2437	14.35	14.72	/	<=30	Pass
		2462	13.49	14.03	/	<=30	Pass
802.11n (HT40)	SISO	2422	15.13	14.78	/	<=30	Pass
		2437	15.32	15.05	/	<=30	Pass
		2452	14.41	14.40	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.28	9.54	12.94	<=30	Pass
		2437	10.40	9.67	13.06	<=30	Pass
		2462	9.76	8.73	12.29	<=30	Pass
802.11n (HT40)	MIMO	2422	9.19	8.33	11.79	<=30	Pass
		2437	9.41	8.32	11.91	<=30	Pass
		2452	9.04	8.08	11.60	<=30	Pass

Note1: Antenna Gain: Ant1: 2.29dBi; Ant2: 2.29dBi;
Note2: Directional Gain: 5.3dBi

3. Maximum Power Spectral Density

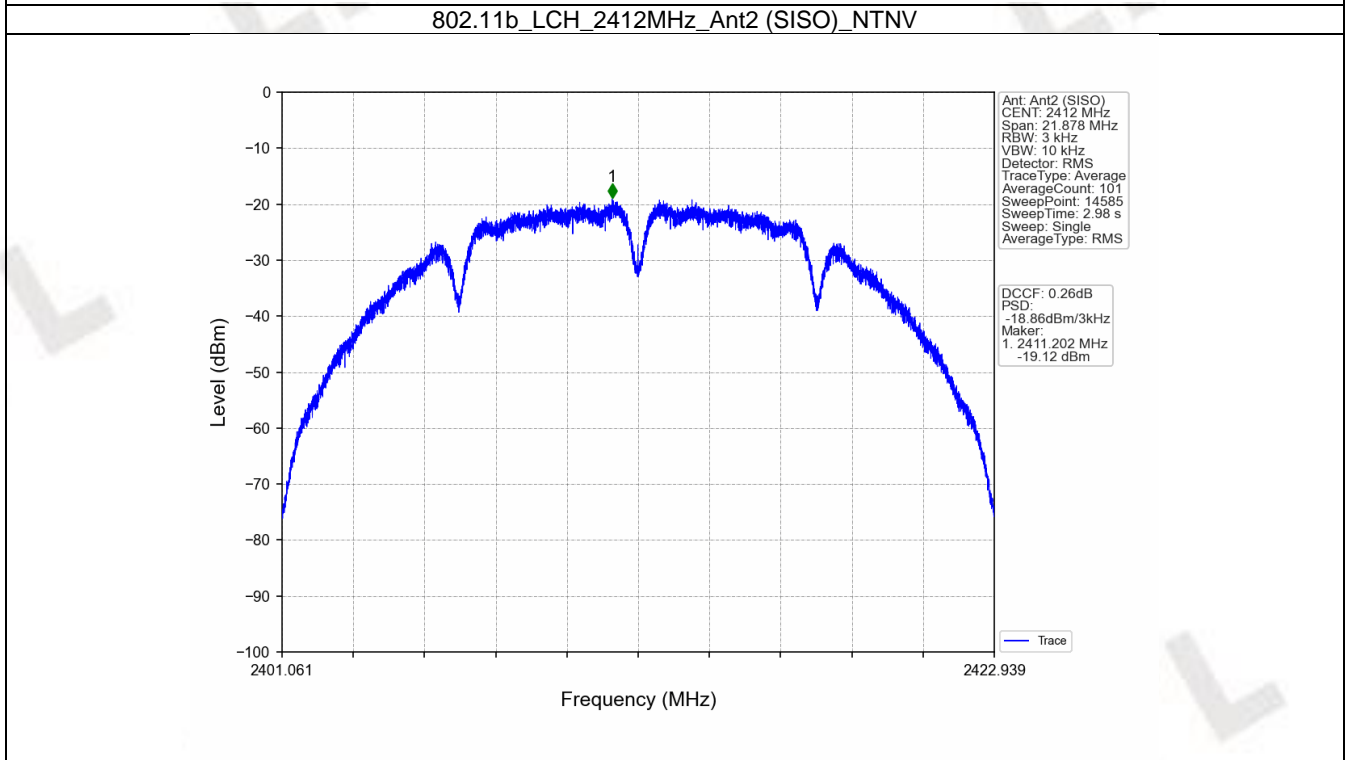
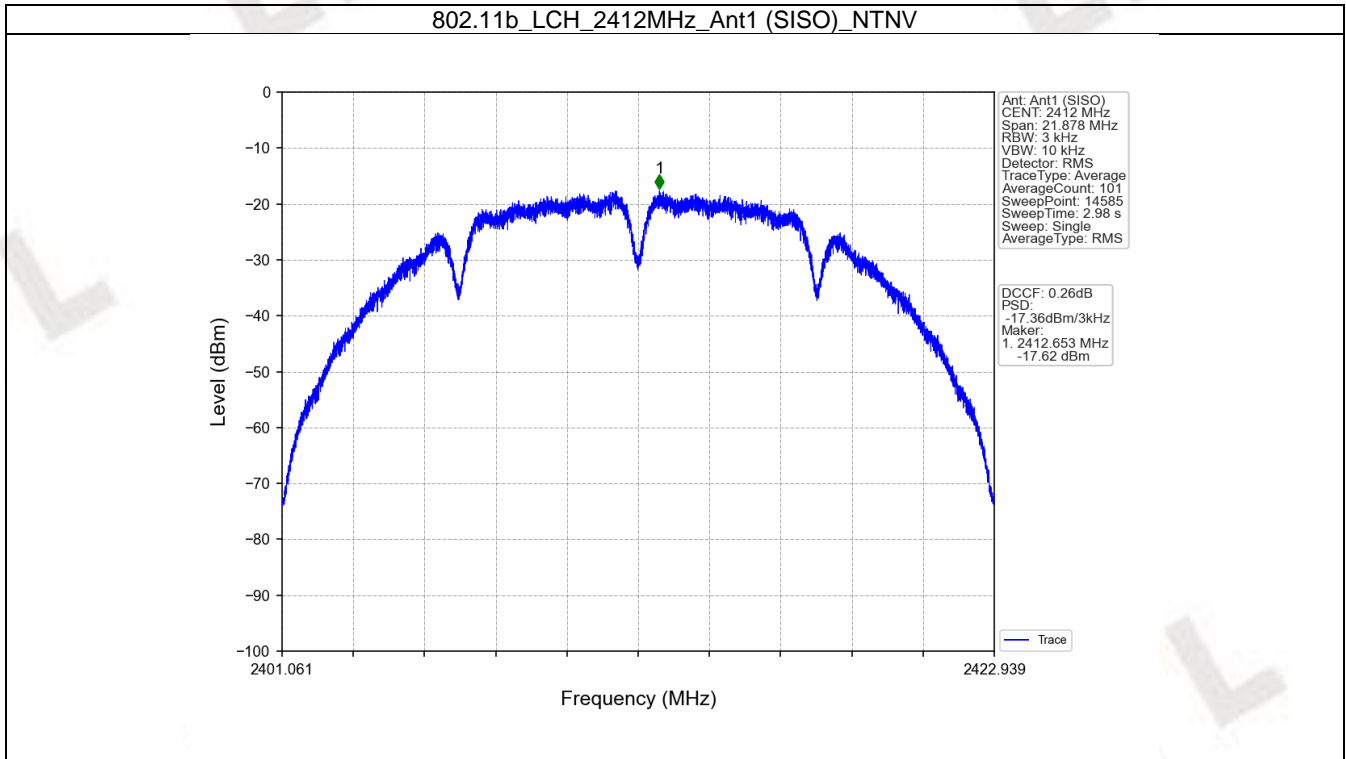
3.1 PSD

3.1.1 Test Result

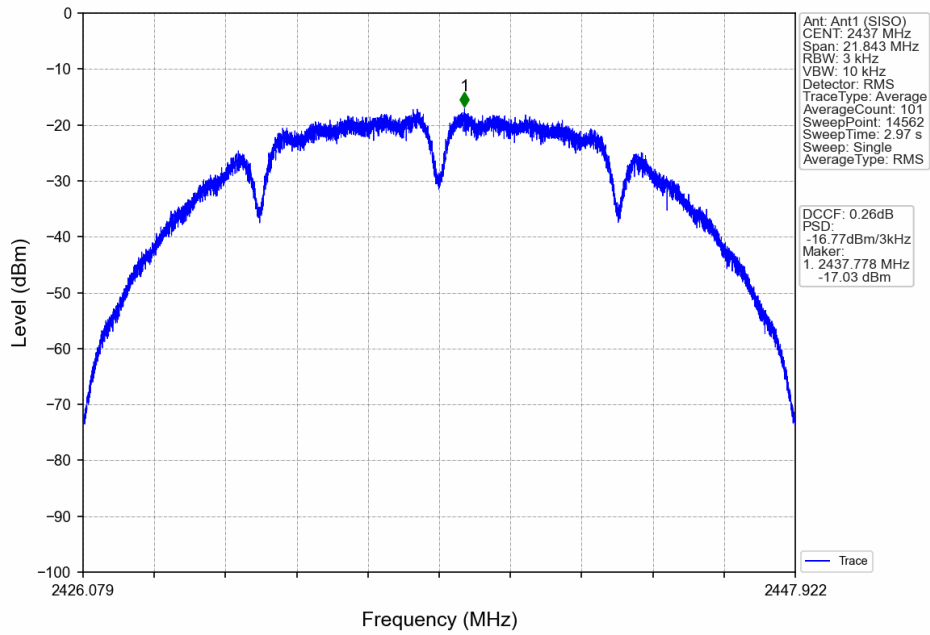
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-17.36	-18.86	/	<=8	Pass
		2437	-16.77	-19.09	/	<=8	Pass
		2462	-17.40	-19.49	/	<=8	Pass
802.11g	SISO	2412	-16.82	-16.96	/	<=8	Pass
		2437	-16.74	-16.77	/	<=8	Pass
		2462	-17.38	-17.80	/	<=8	Pass
802.11n (HT20)	SISO	2412	-16.69	-16.75	/	<=8	Pass
		2437	-16.49	-15.71	/	<=8	Pass
		2462	-16.93	-16.66	/	<=8	Pass
802.11n (HT40)	SISO	2422	-16.82	-17.22	/	<=8	Pass
		2437	-16.54	-16.74	/	<=8	Pass
		2452	-17.57	-17.32	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-20.64	-21.65	-18.27	<=8	Pass
		2437	-20.26	-21.23	-17.79	<=8	Pass
		2462	-21.02	-22.10	-18.60	<=8	Pass
802.11n (HT40)	MIMO	2422	-22.67	-23.58	-20.09	<=8	Pass
		2437	-22.55	-23.91	-20.16	<=8	Pass
		2452	-22.40	-23.57	-19.93	<=8	Pass

Note1: Antenna Gain: Ant1: 2.29dBi; Ant2: 2.29dBi;
Note2: Directional Gain: 5.3dBi

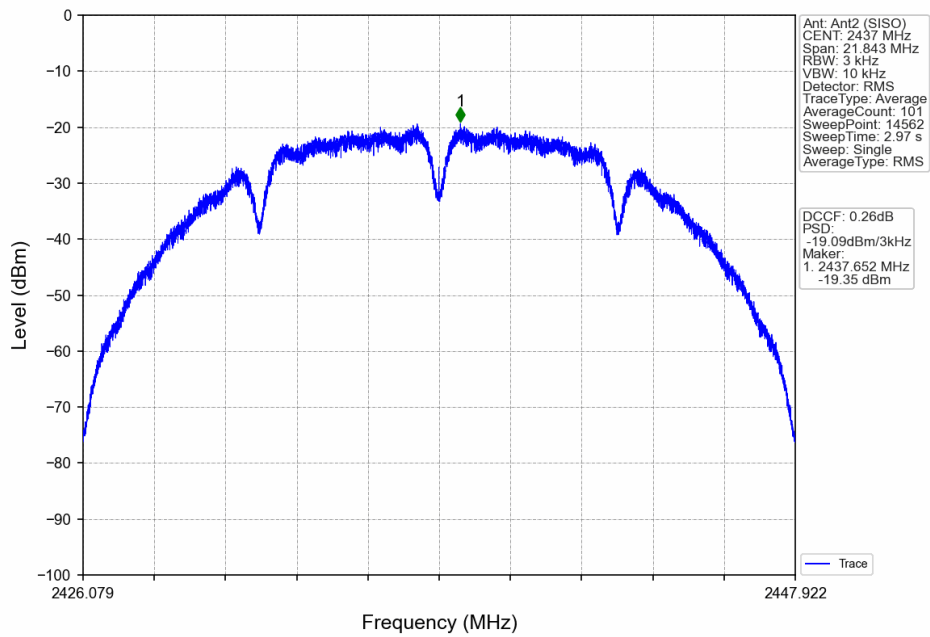
3.1.2 Test Graph



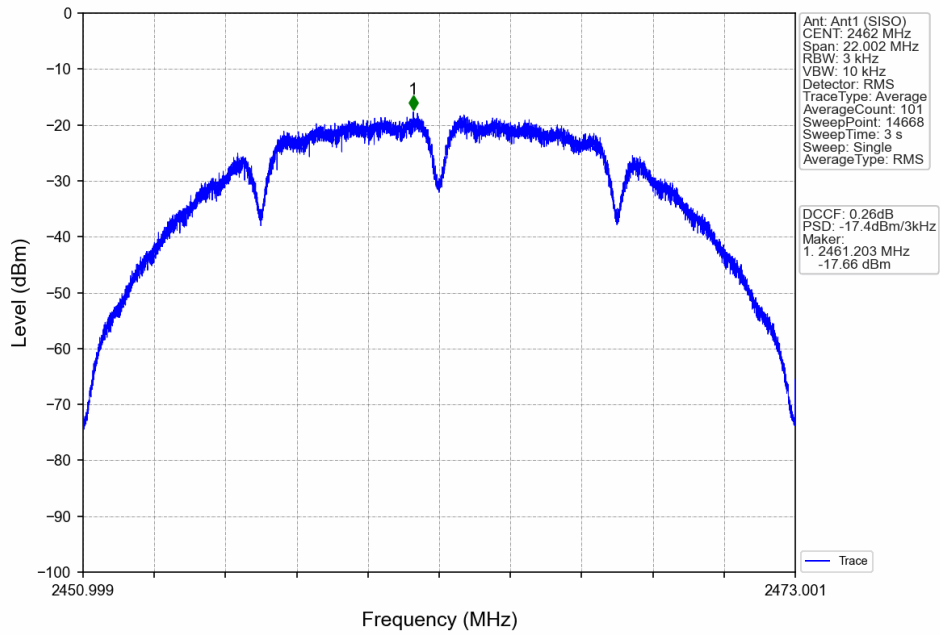
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



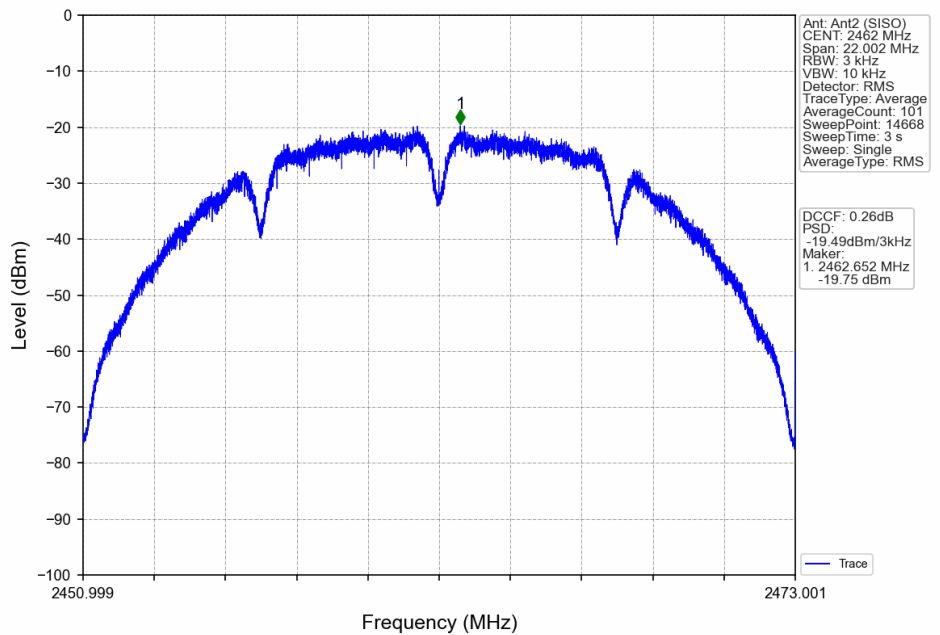
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



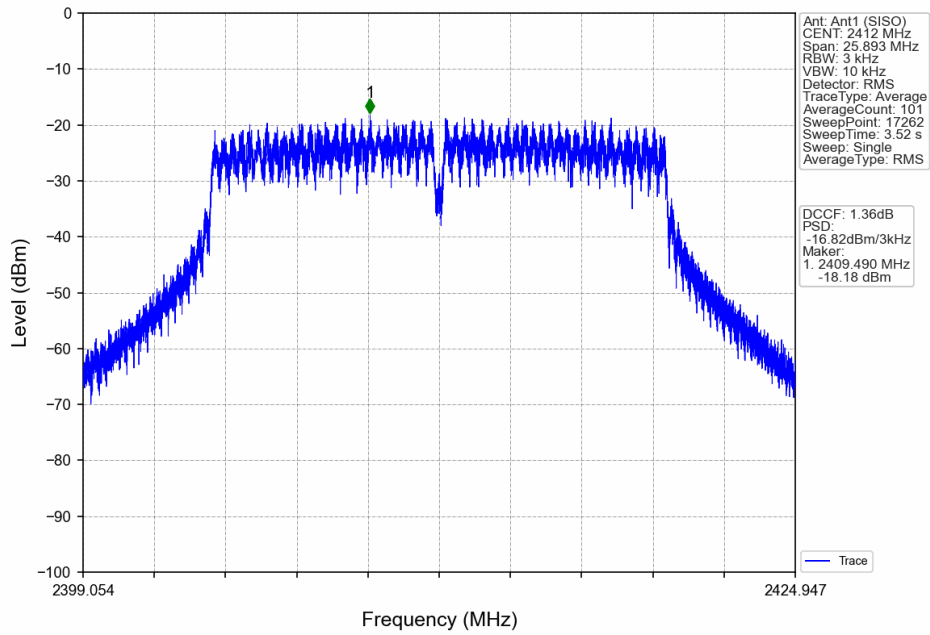
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



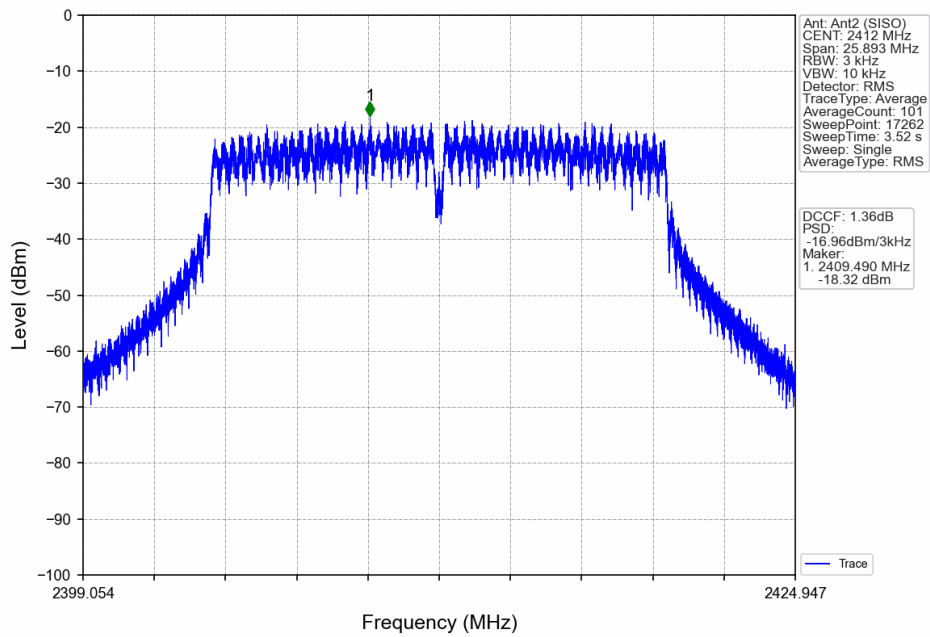
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



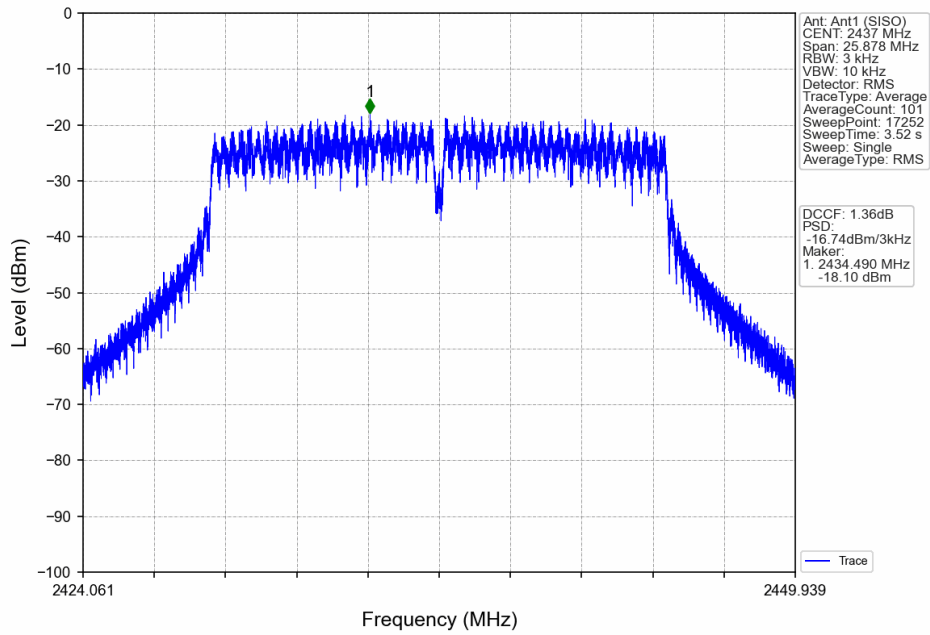
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



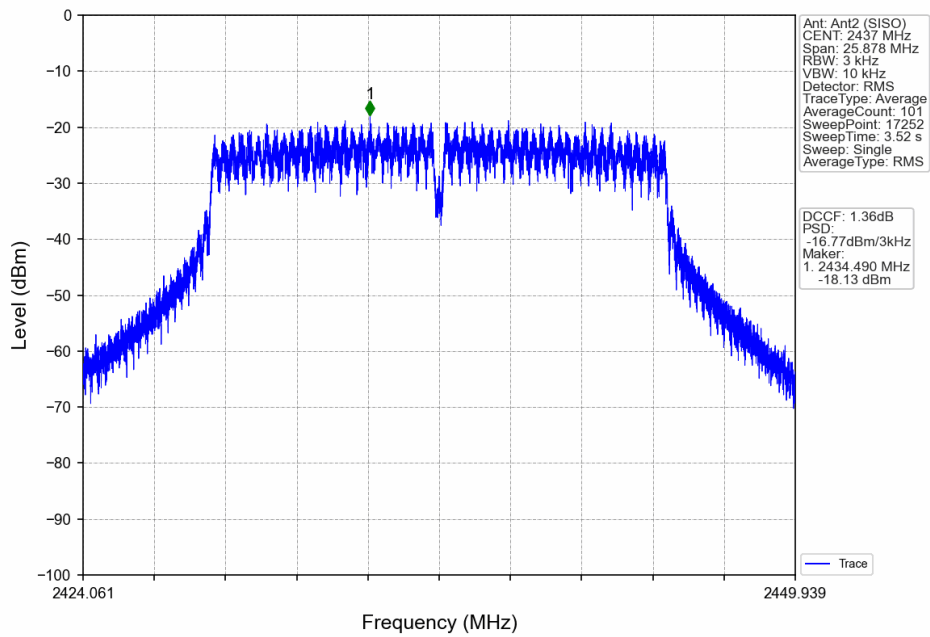
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



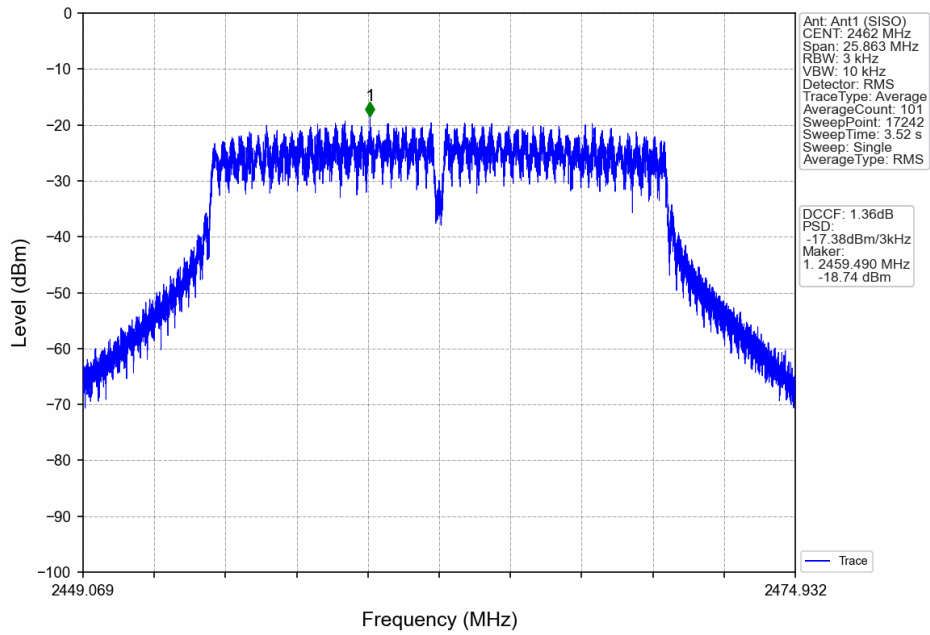
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



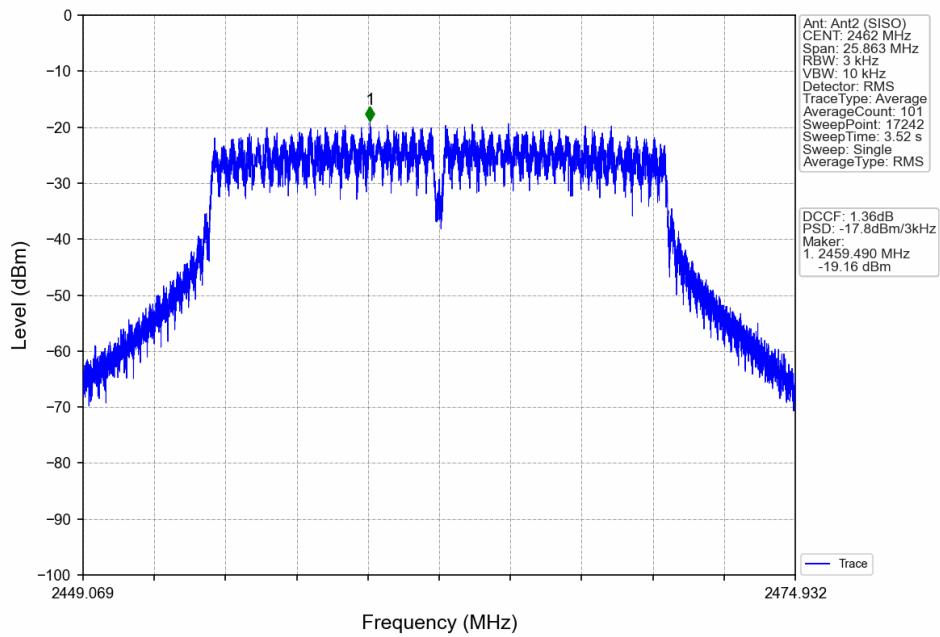
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



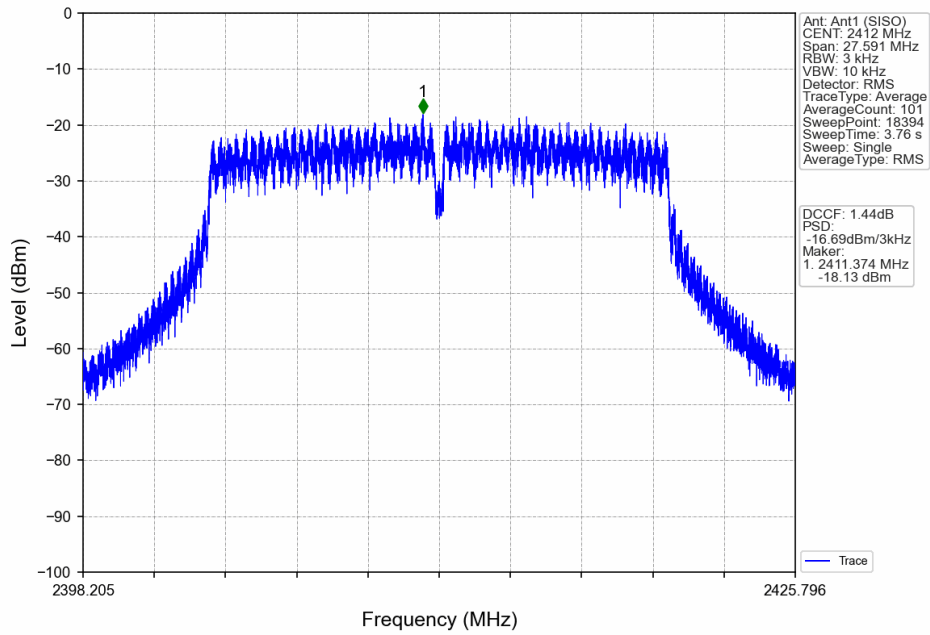
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



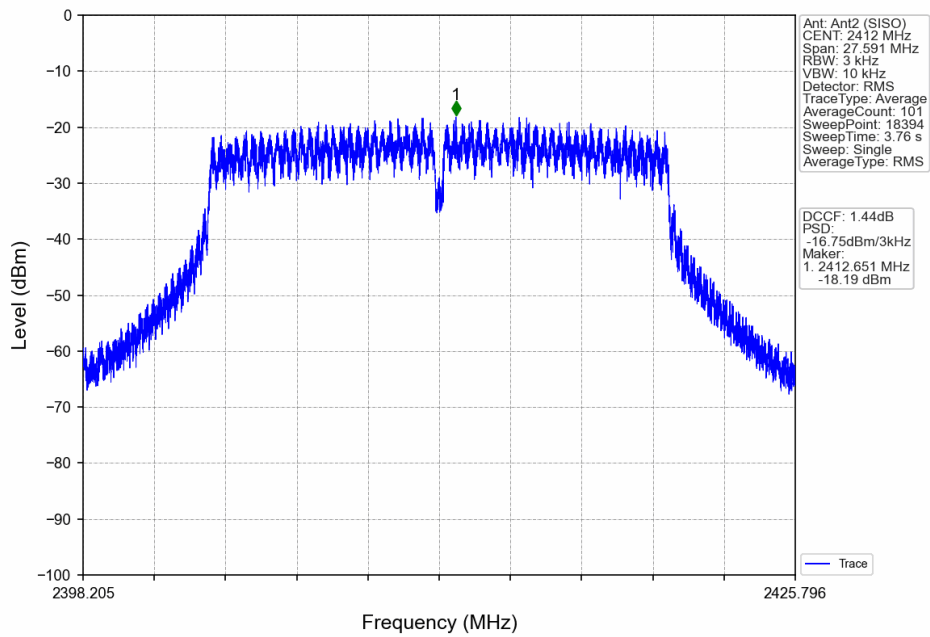
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



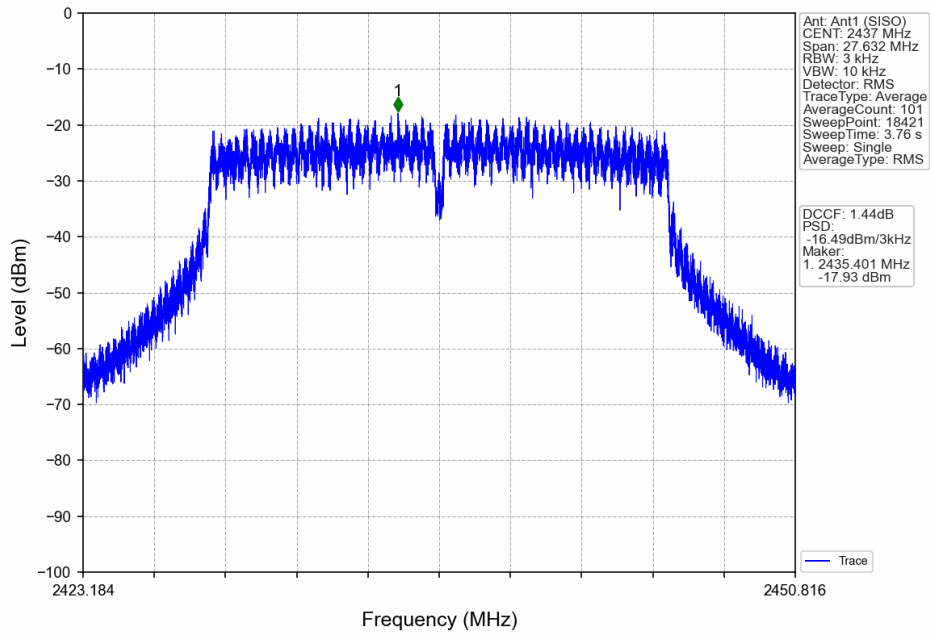
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



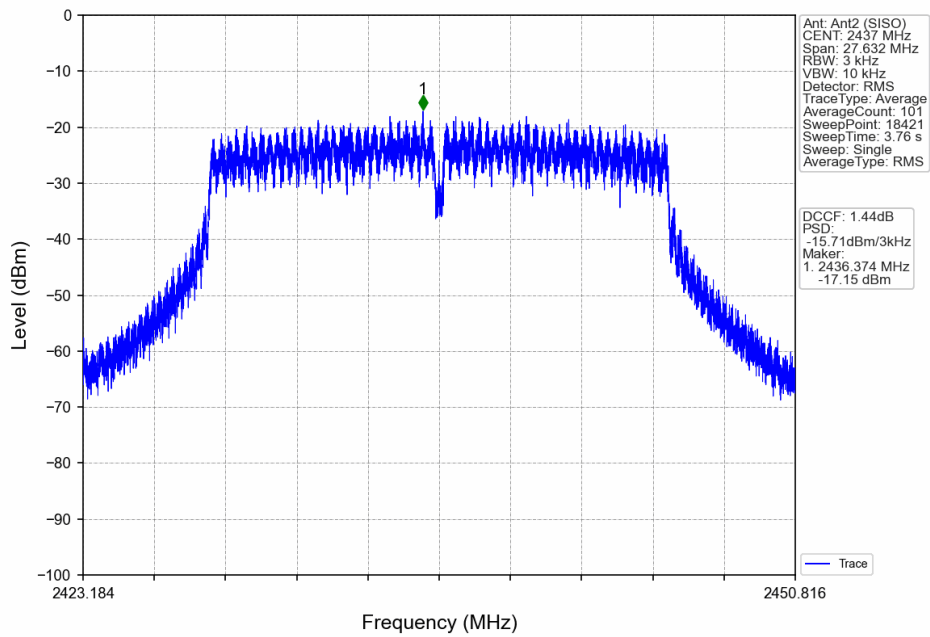
802.11n(HT20)_LCH_2412MHz_Ant2 (SISO)_NTNV



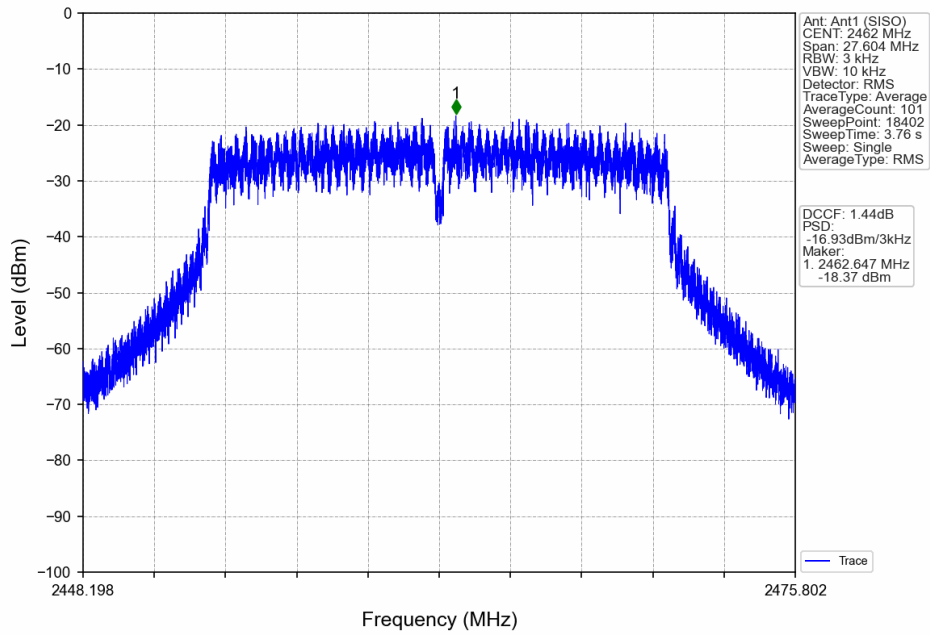
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



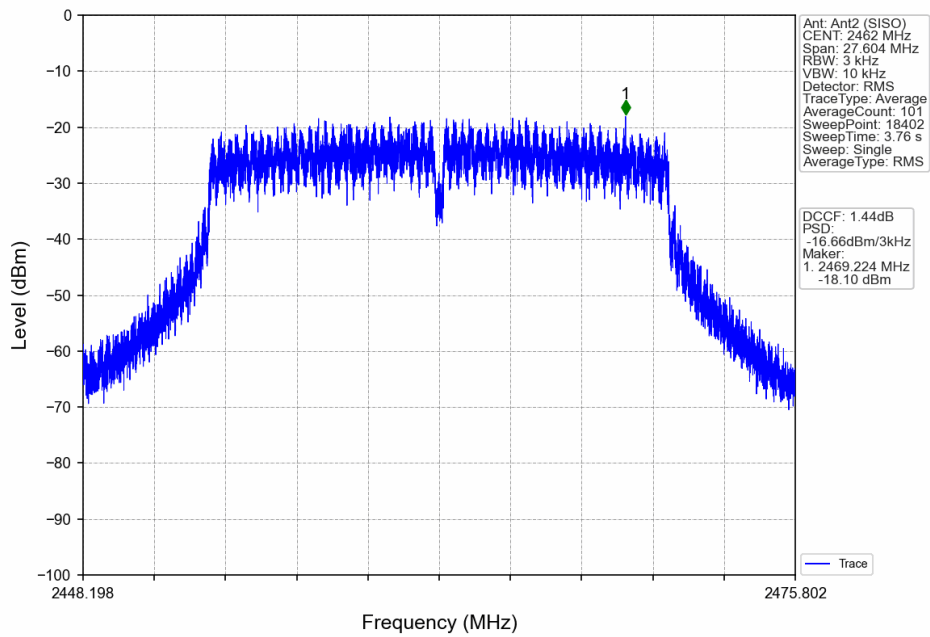
802.11n(HT20)_MCH_2437MHz_Ant2 (SISO)_NTNV



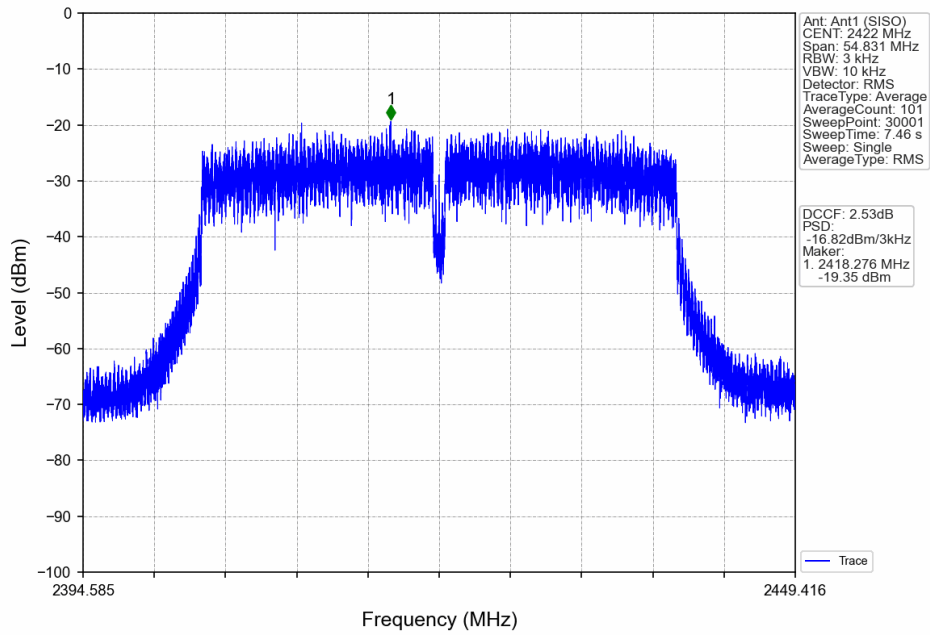
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



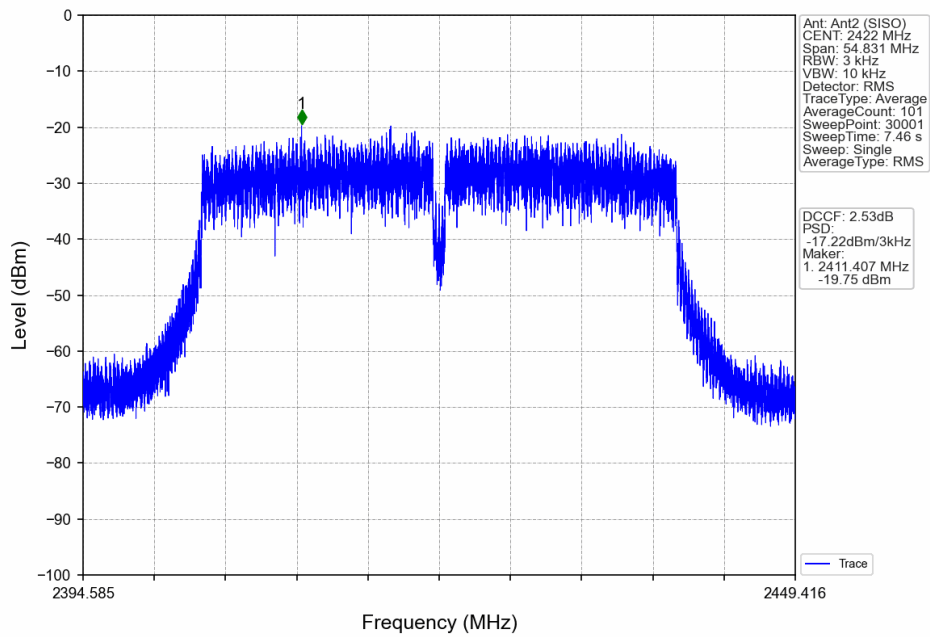
802.11n(HT20)_HCH_2462MHz_Ant2 (SISO)_NTNV



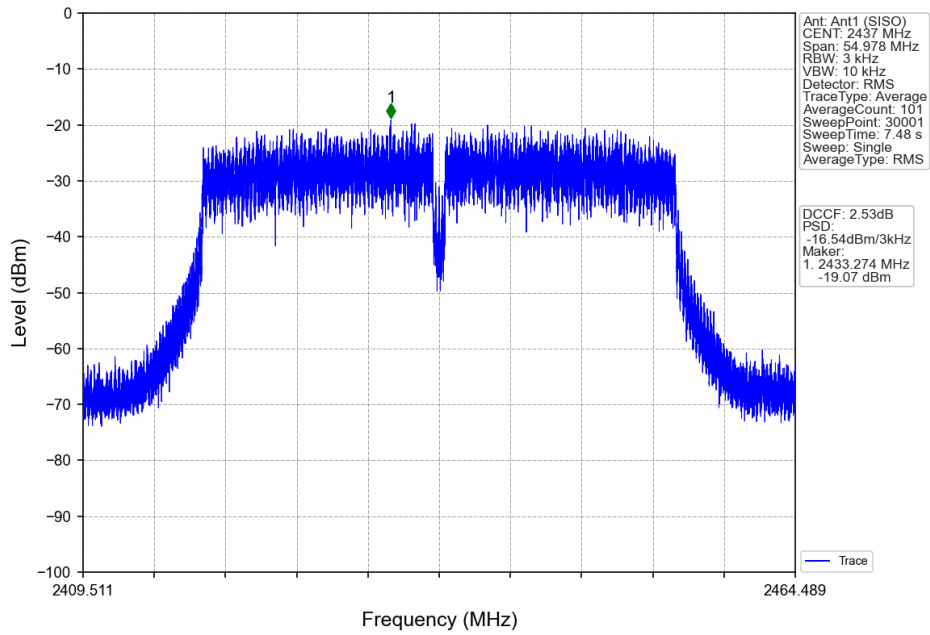
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



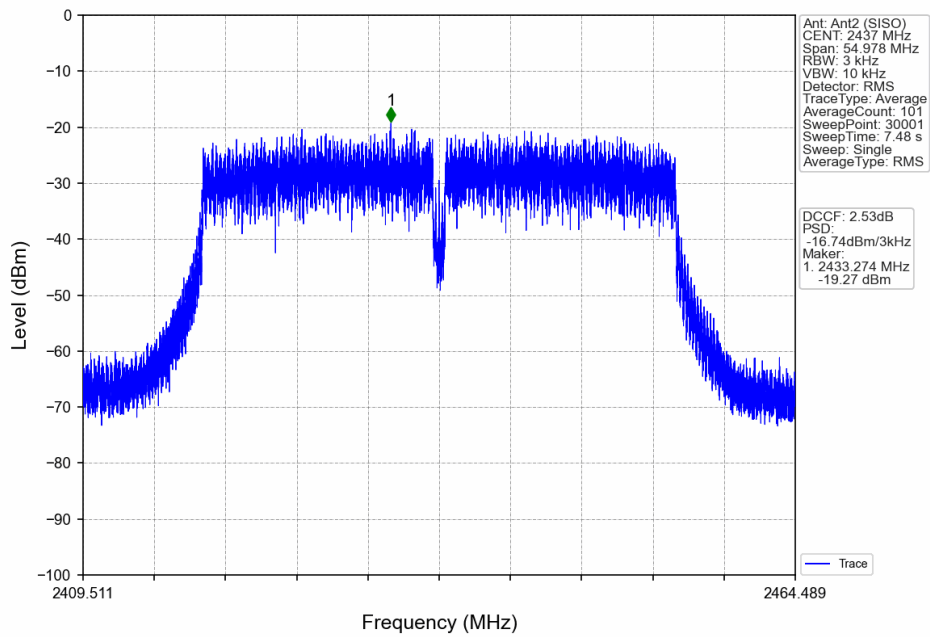
802.11n(HT40)_LCH_2422MHz_Ant2 (SISO)_NTNV



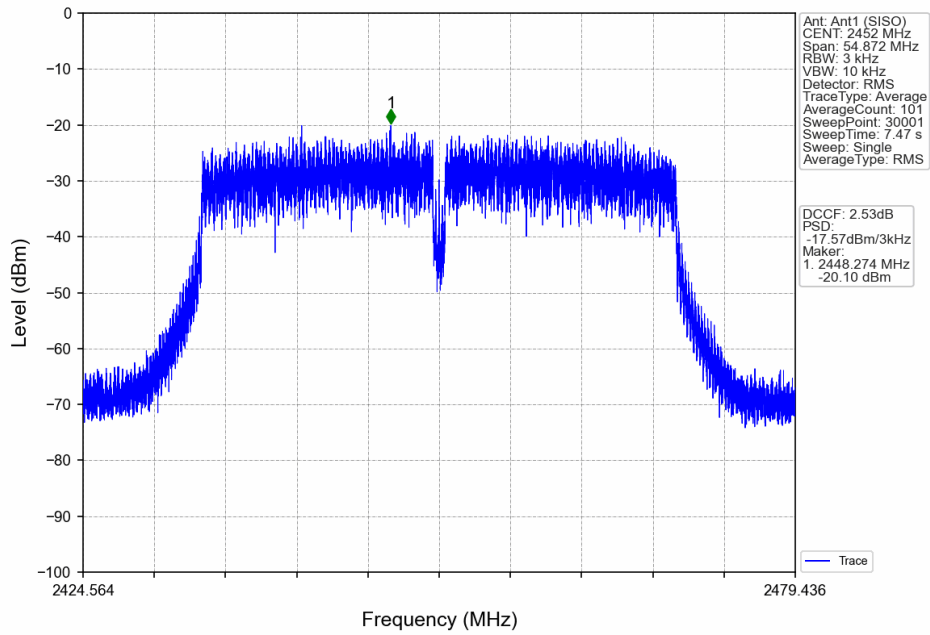
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



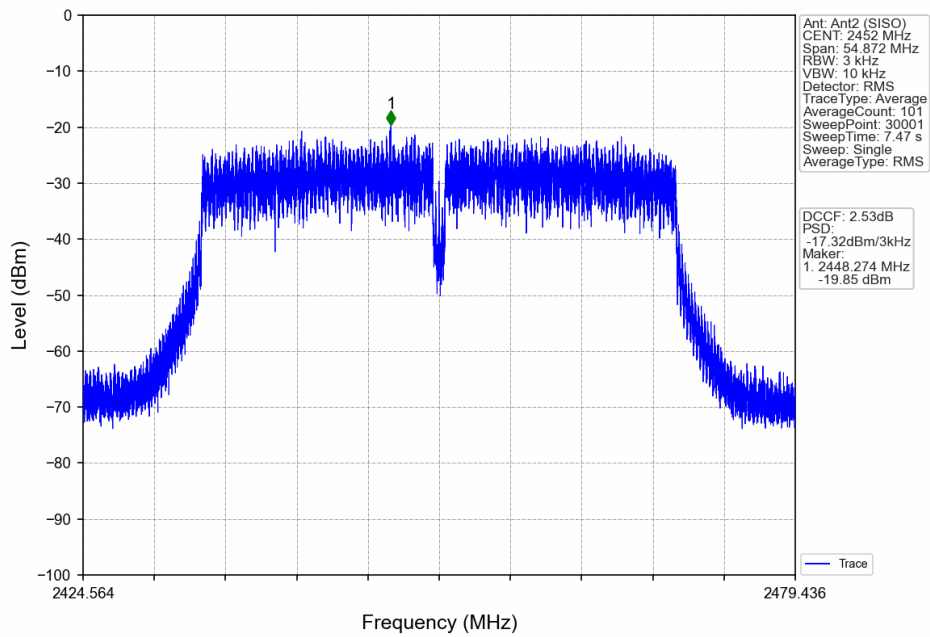
802.11n(HT40)_MCH_2437MHz_Ant2 (SISO)_NTNV



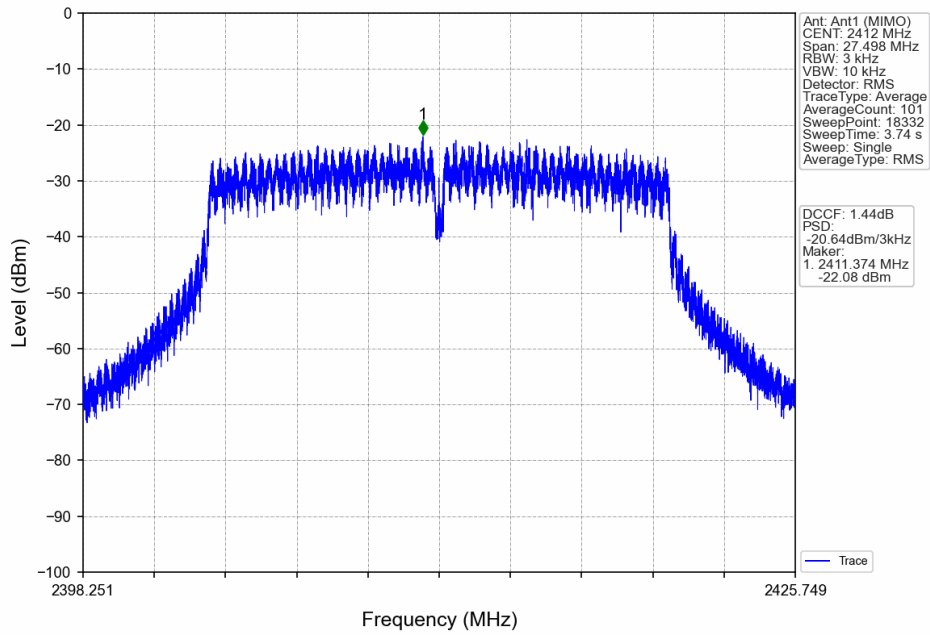
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



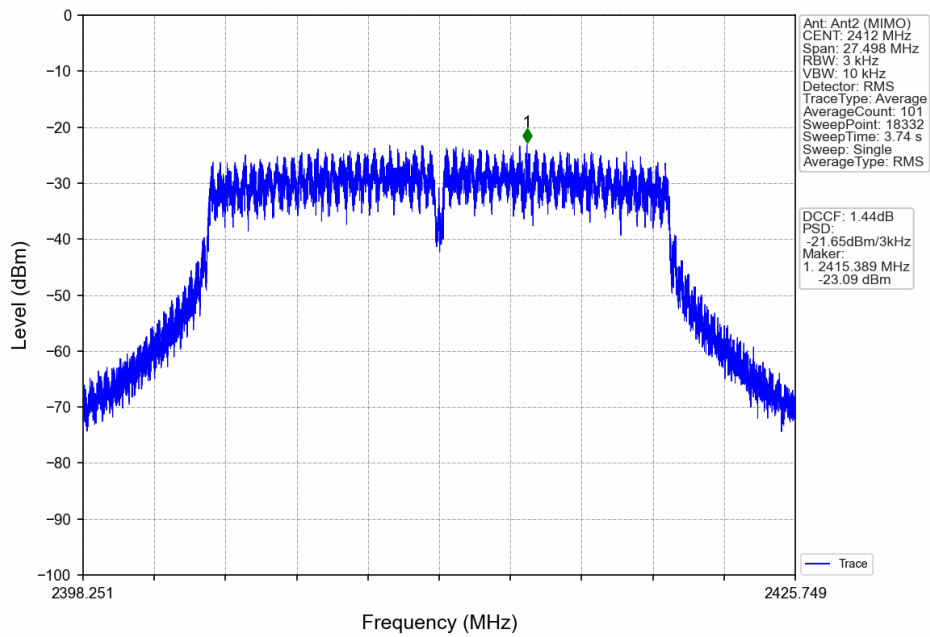
802.11n(HT40)_HCH_2452MHz_Ant2 (SISO)_NTNV



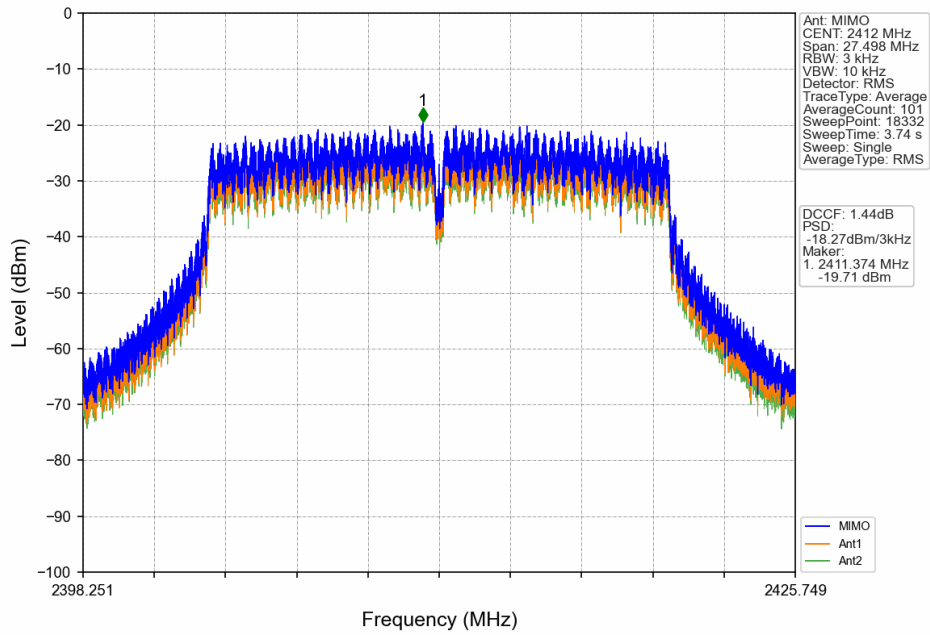
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



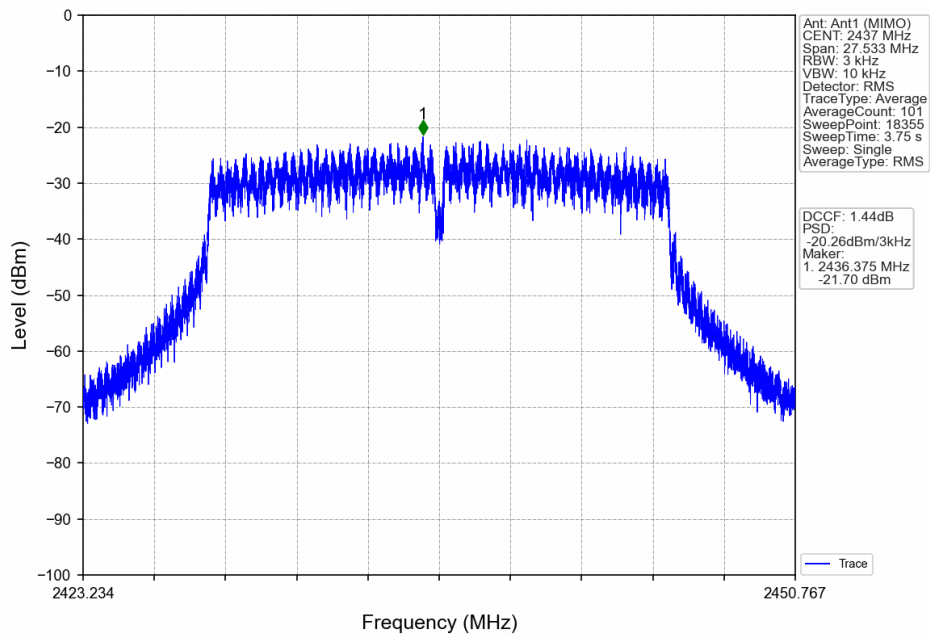
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



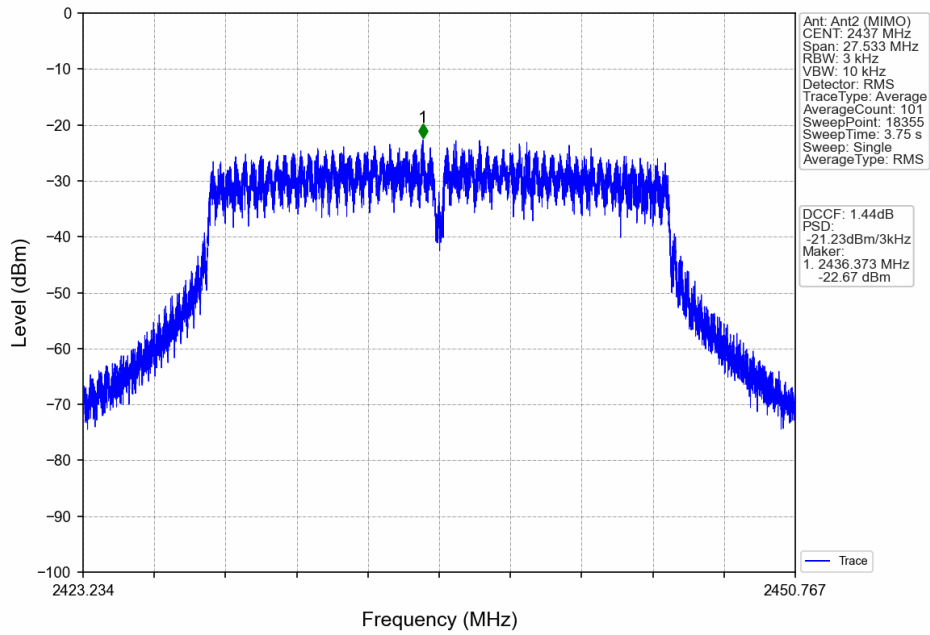
802.11n(HT20)_LCH_2412MHz_MIMO_NTNV



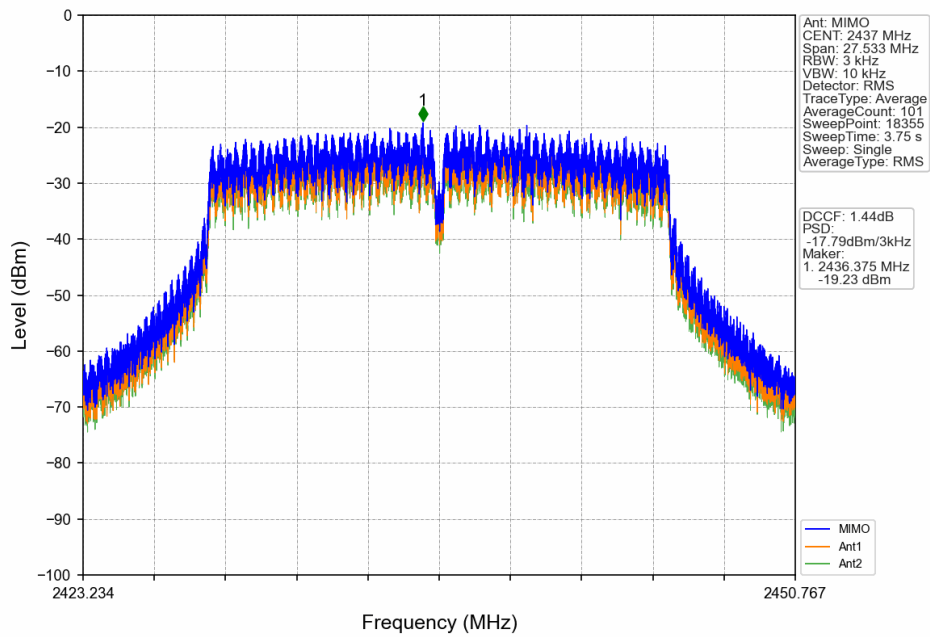
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



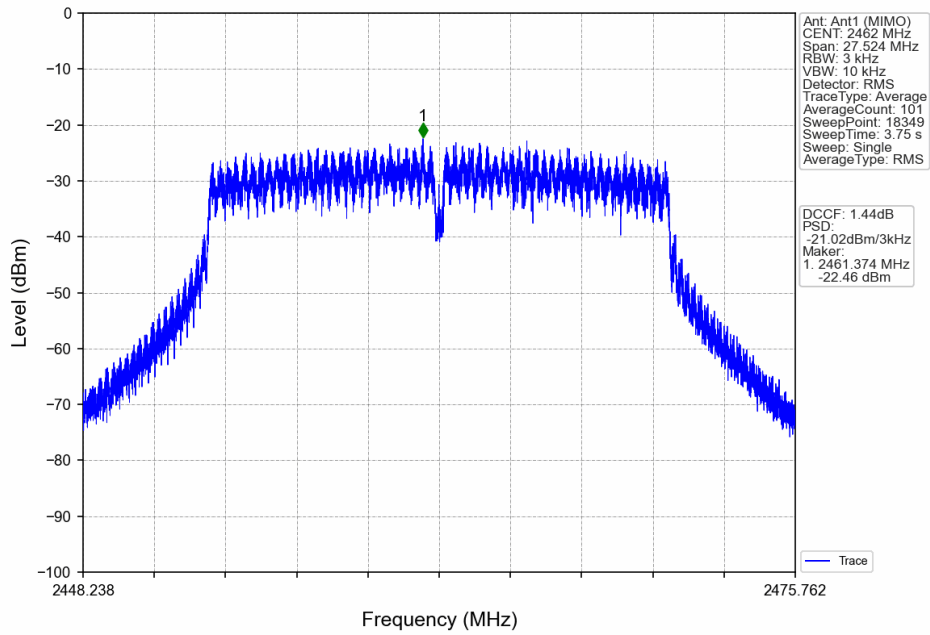
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



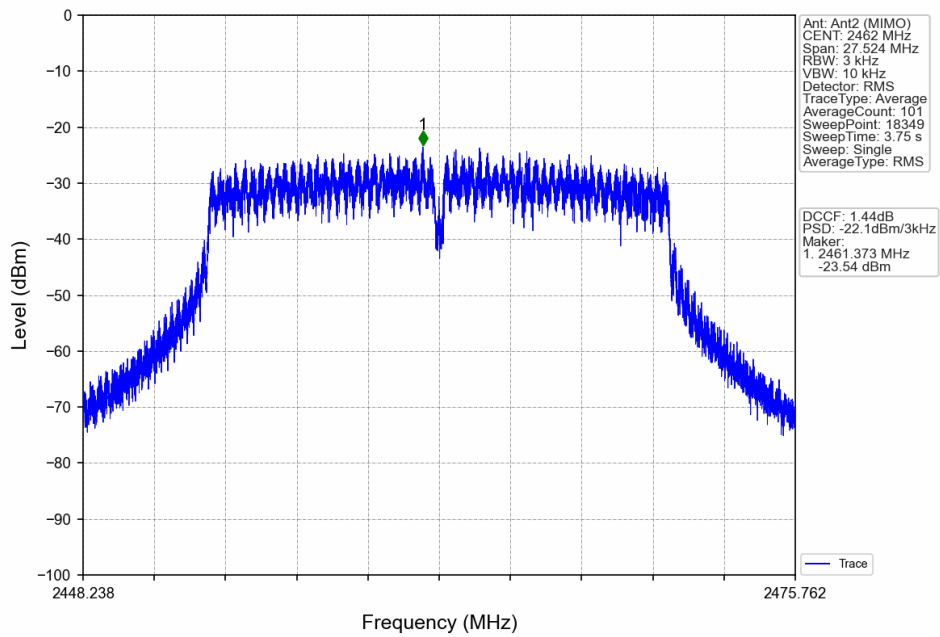
802.11n(HT20)_MCH_2437MHz_MIMO_NTNV



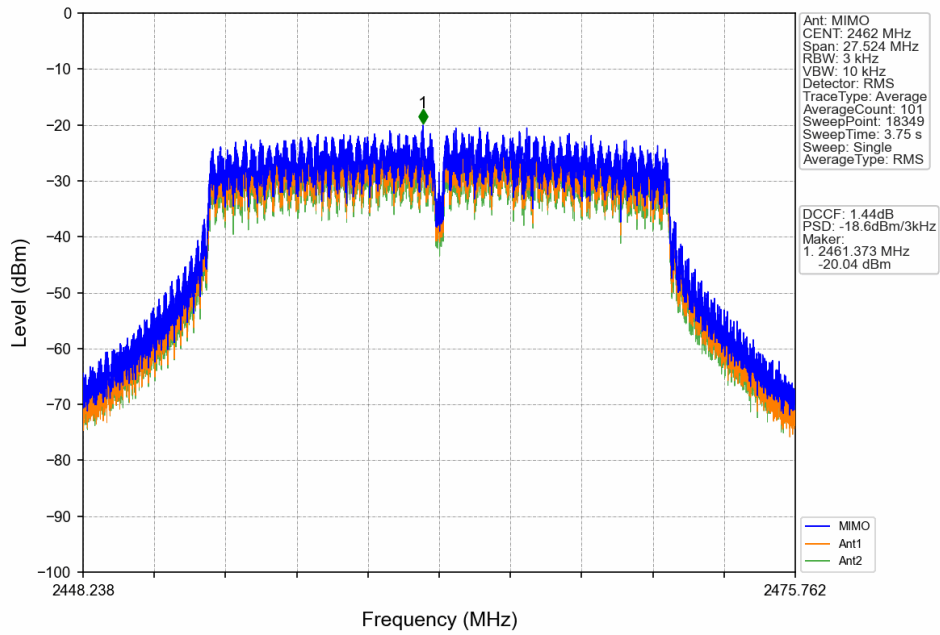
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



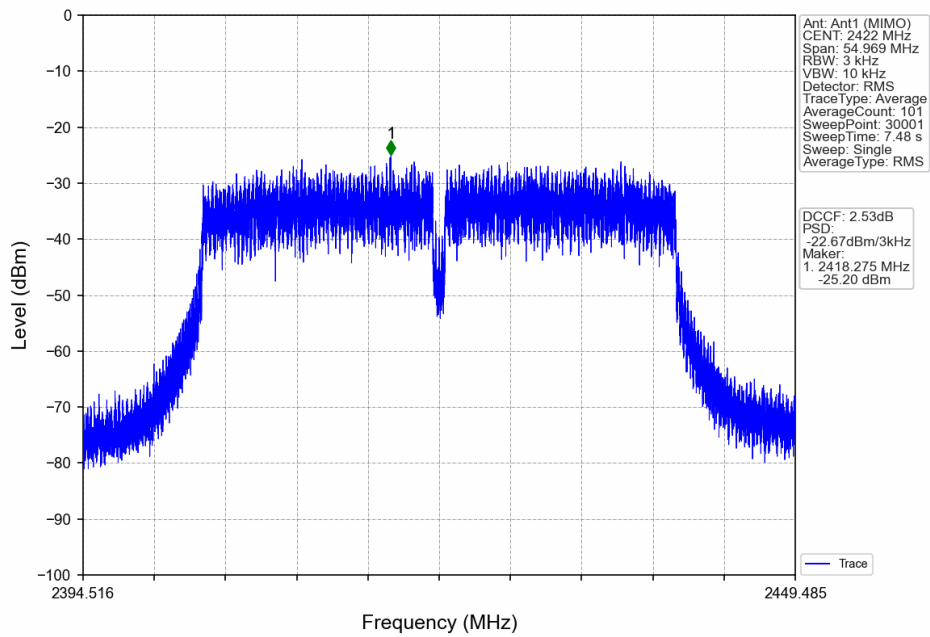
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



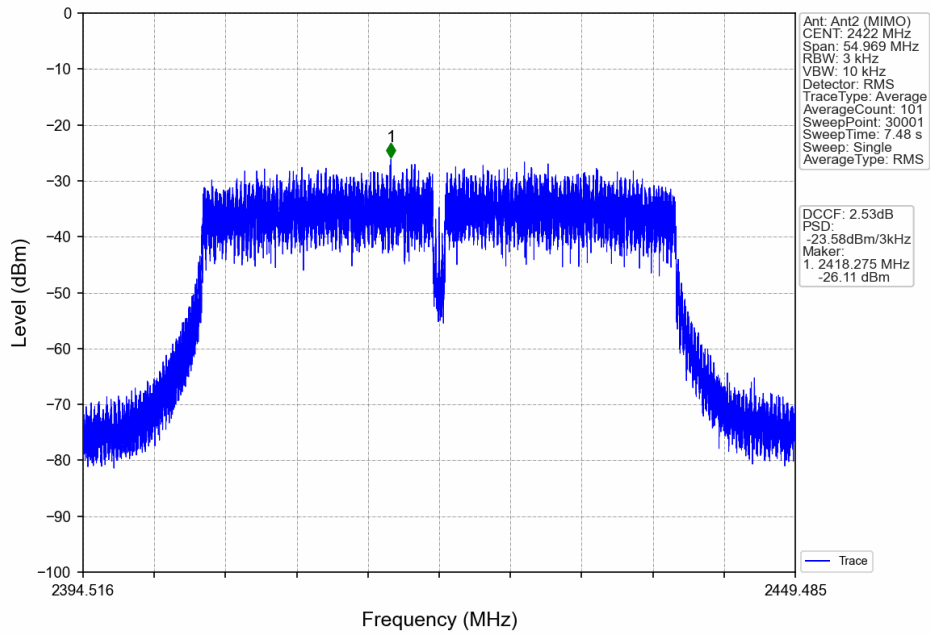
802.11n(HT20)_HCH_2462MHz_MIMO_NTNV



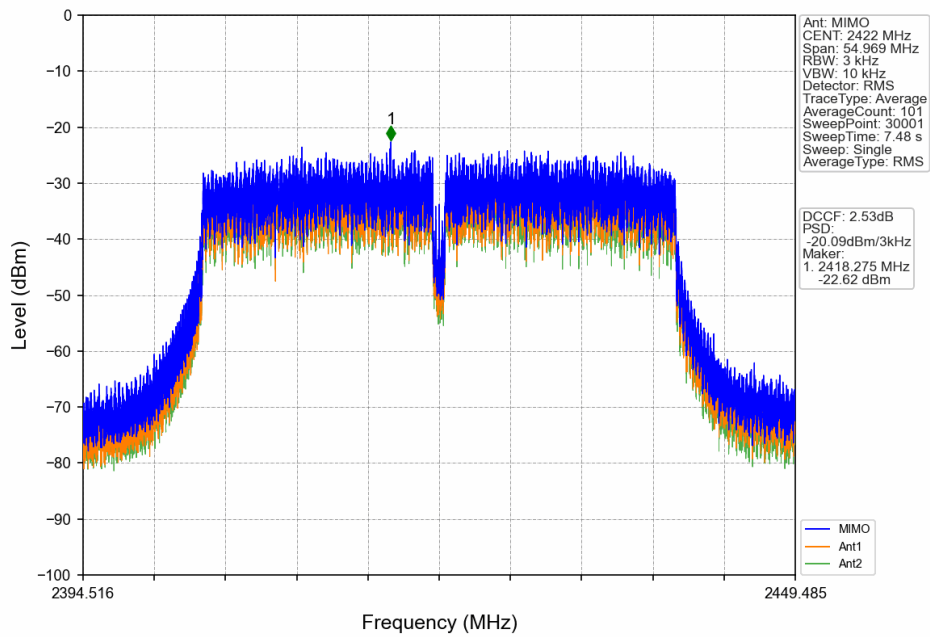
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



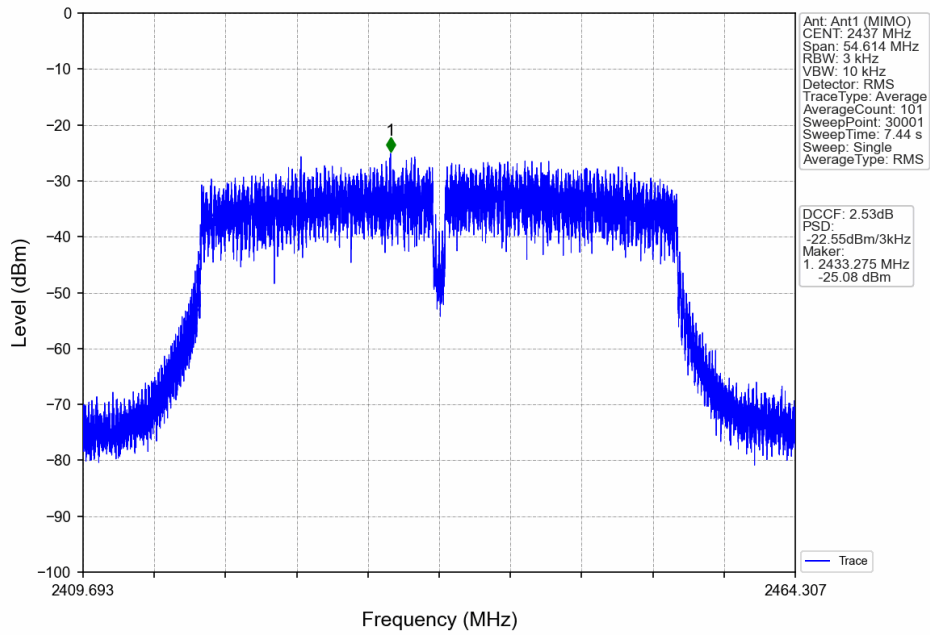
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



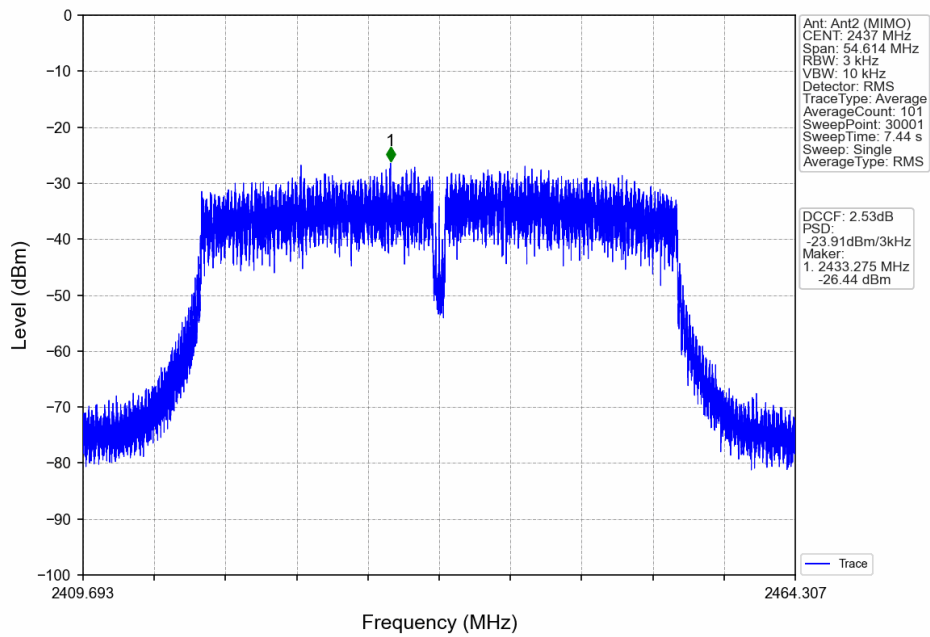
802.11n(HT40)_LCH_2422MHz_MIMO_NTNV



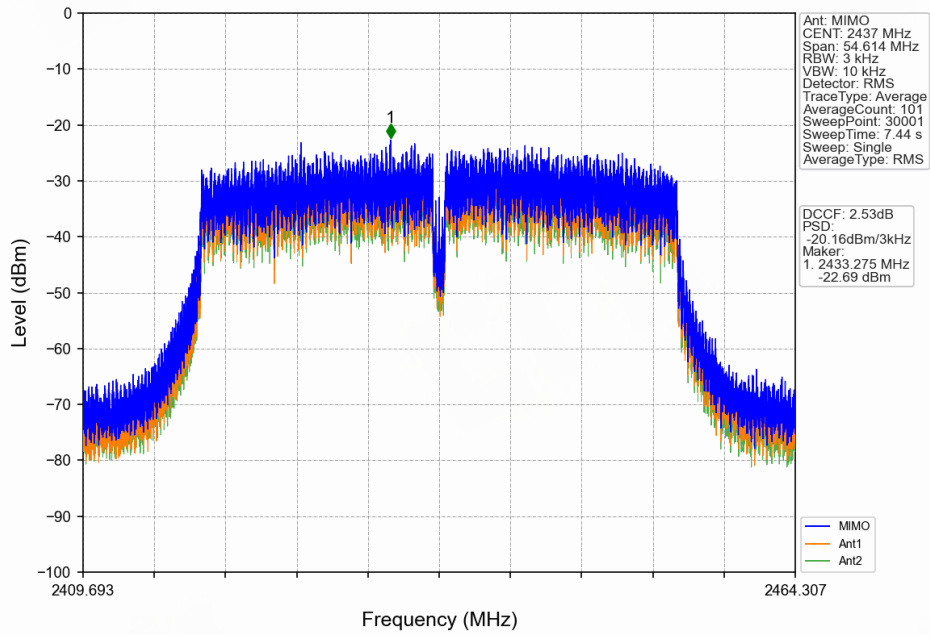
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



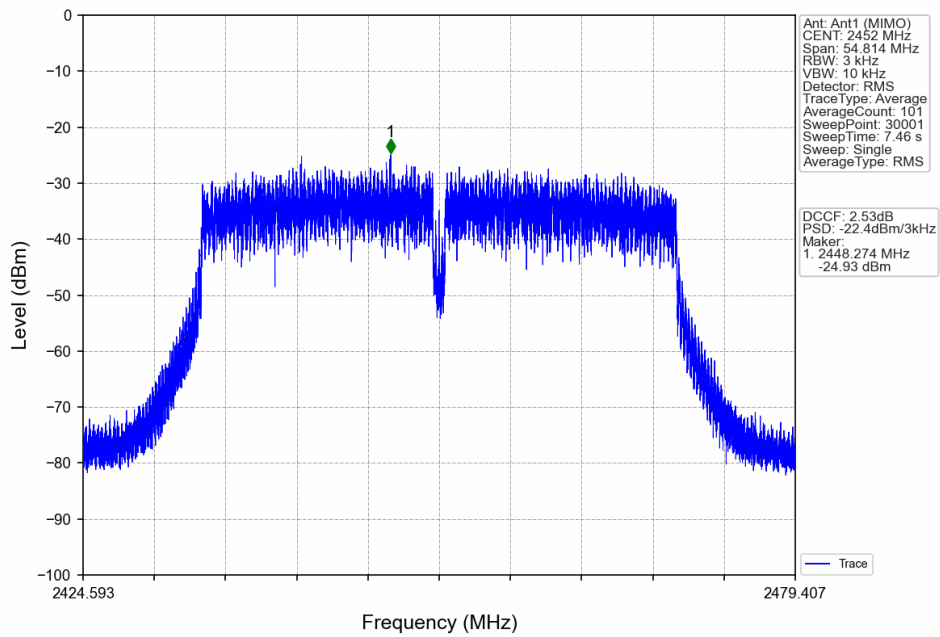
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



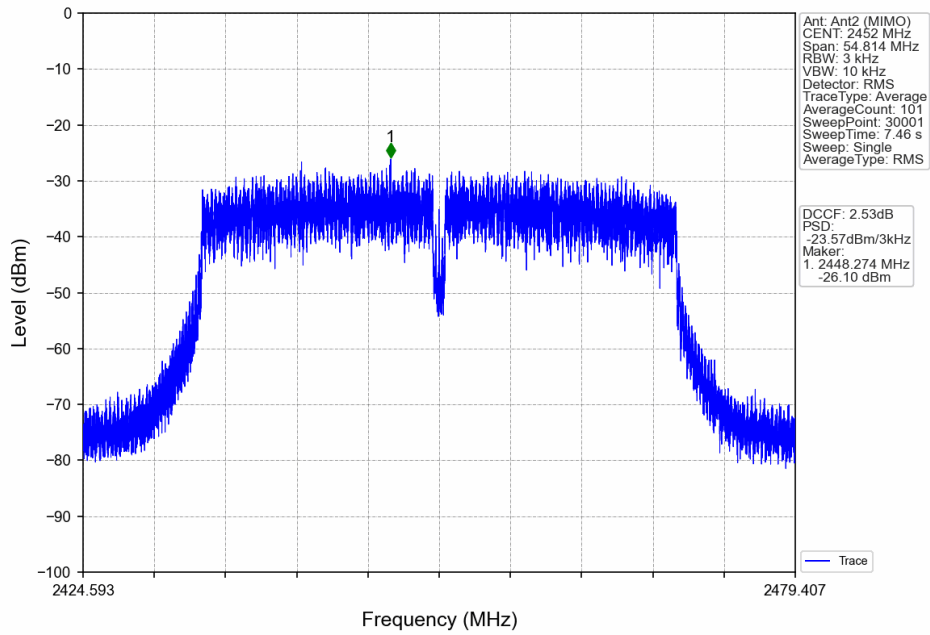
802.11n(HT40)_MCH_2437MHz_MIMO_NTNV



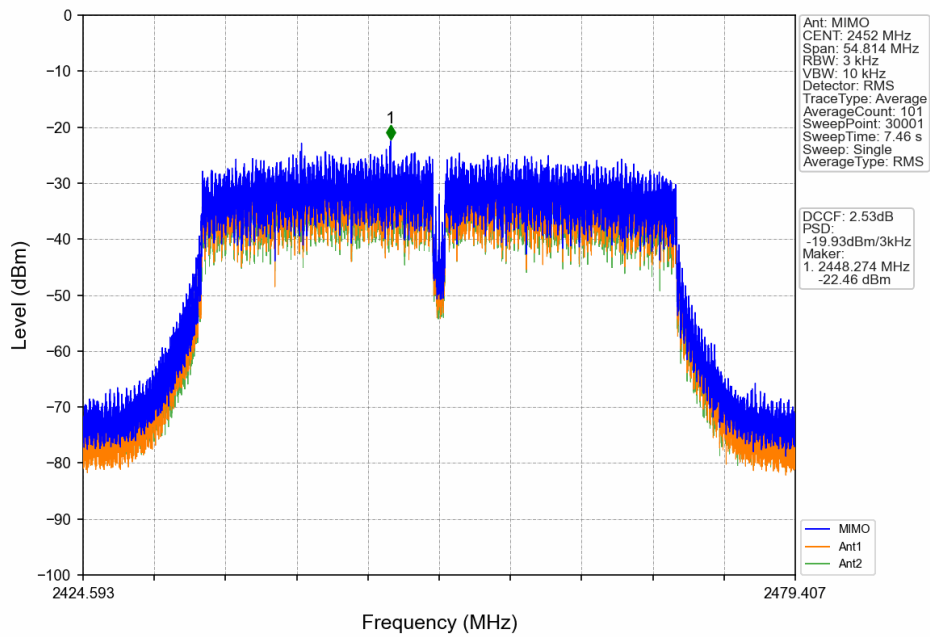
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_MIMO_NTNV



4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	4.96
			2	3.29
		2437	1	5.33
			2	2.97
		2462	1	4.63
			2	2.41
802.11g	SISO	2412	1	3.67
			2	3.62
		2437	1	3.93
			2	3.50
		2462	1	2.99
			2	2.66
802.11n (HT20)	SISO	2412	1	3.56
			2	4.24
		2437	1	3.76
			2	4.27
		2462	1	2.80
			2	3.41
802.11n (HT40)	SISO	2422	1	1.40
			2	1.10
		2437	1	1.23
			2	1.15
		2452	1	0.59
			2	0.67
802.11n (HT20)	MIMO	2412	1	-0.83
			2	-1.12
		2437	1	-0.67
			2	-1.54
		2462	1	-0.84
			2	-2.05
802.11n (HT40)	MIMO	2422	1	-3.21
			2	-3.71
		2437	1	-2.95
			2	-3.69
		2452	1	-3.38
			2	-4.32

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

4.1.2 Test Graph

