

Appendix for 15.247

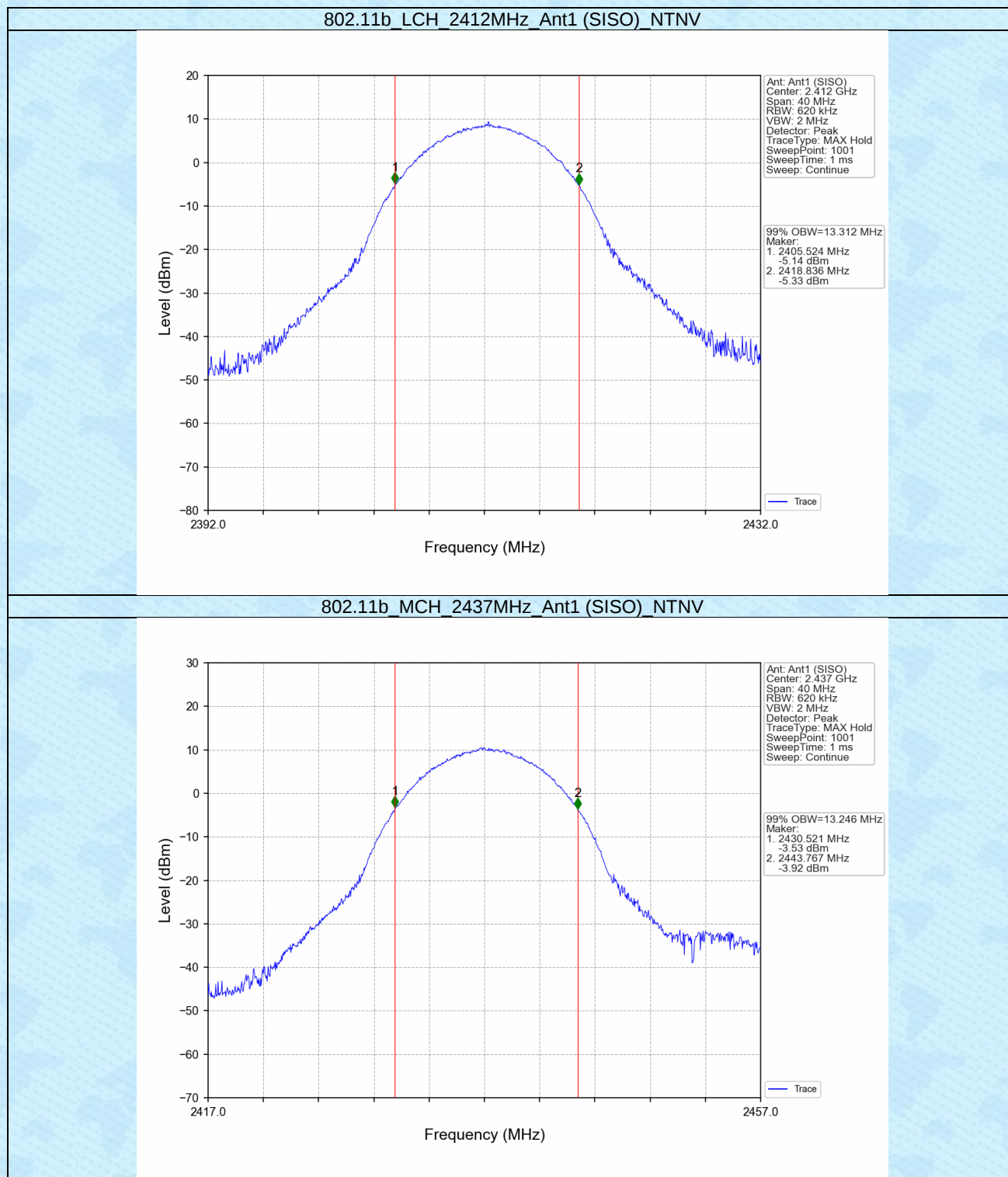
1. Bandwidth

1.1 OBW

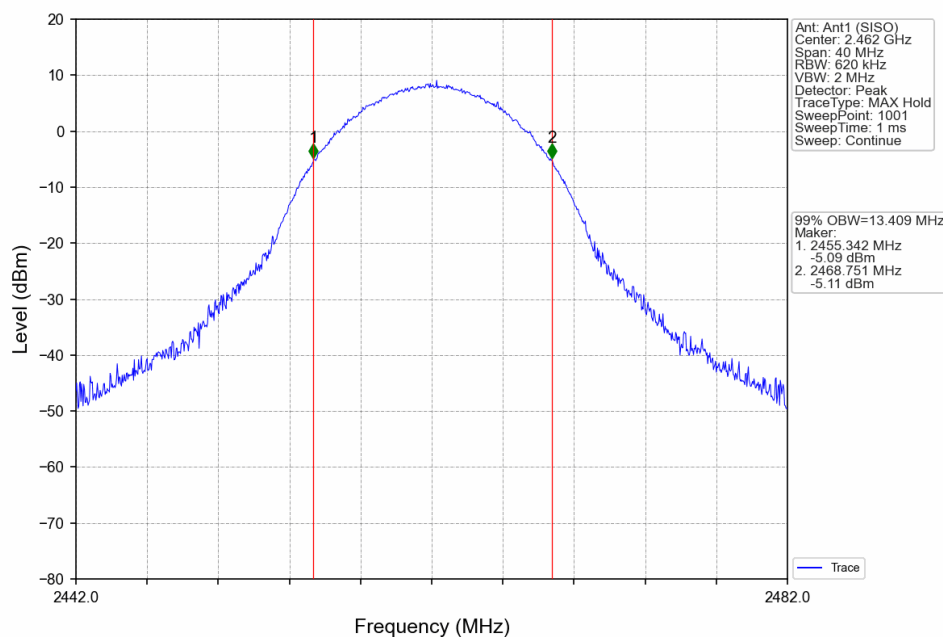
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.312	Pass
		2437	1	13.246	Pass
		2462	1	13.409	Pass
802.11g	SISO	2412	1	13.302	Pass
		2437	1	13.274	Pass
		2462	1	13.296	Pass
802.11n (HT20)	SISO	2412	1	13.317	Pass
		2437	1	13.253	Pass
		2462	1	13.314	Pass

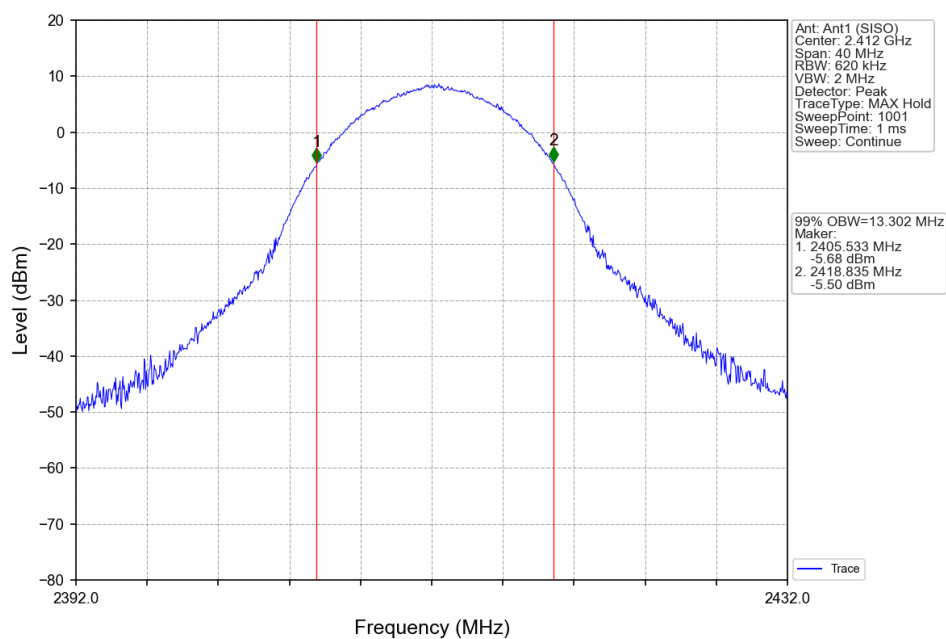
1.1.2 Test Graph



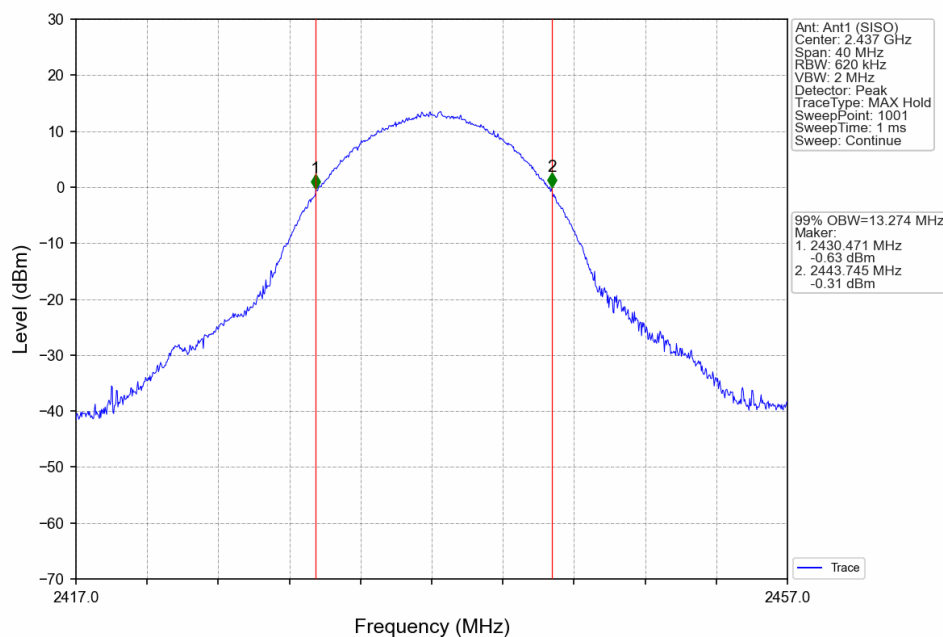
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



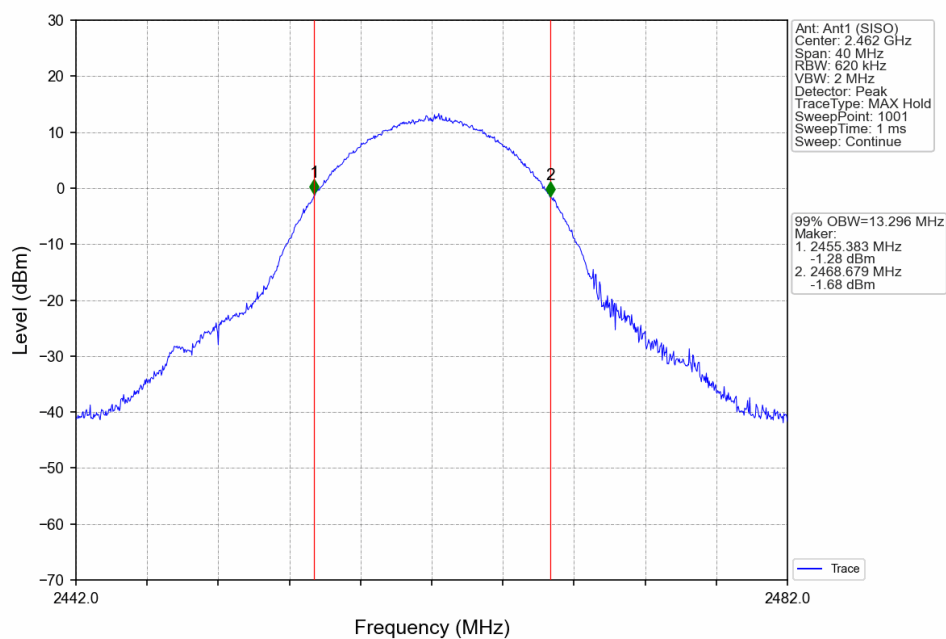
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



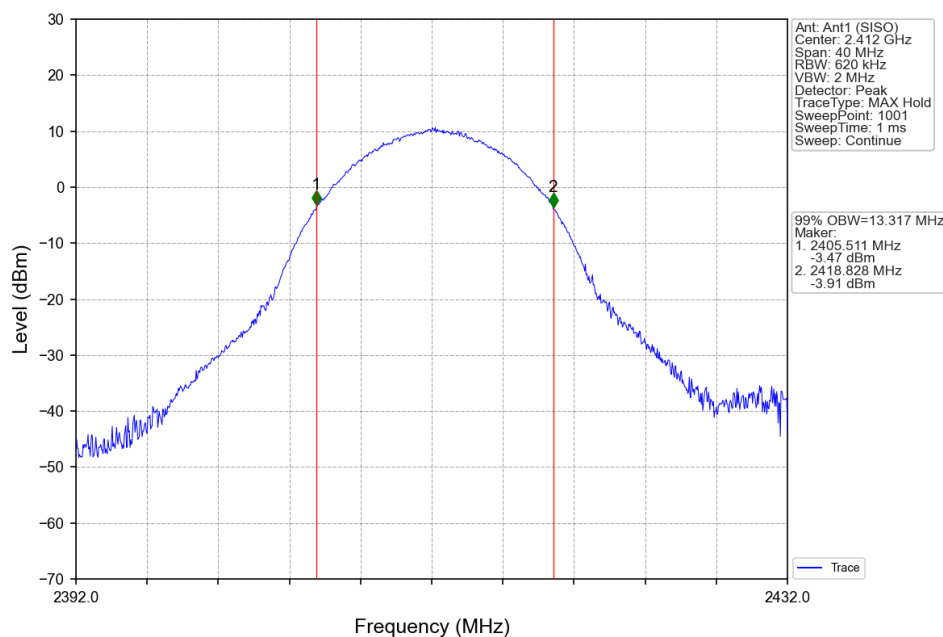
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



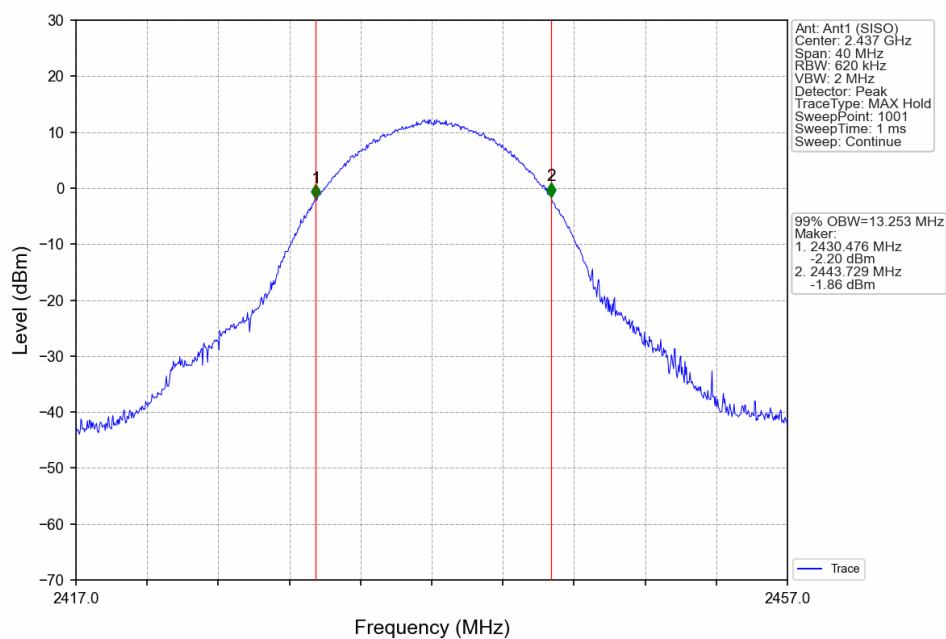
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



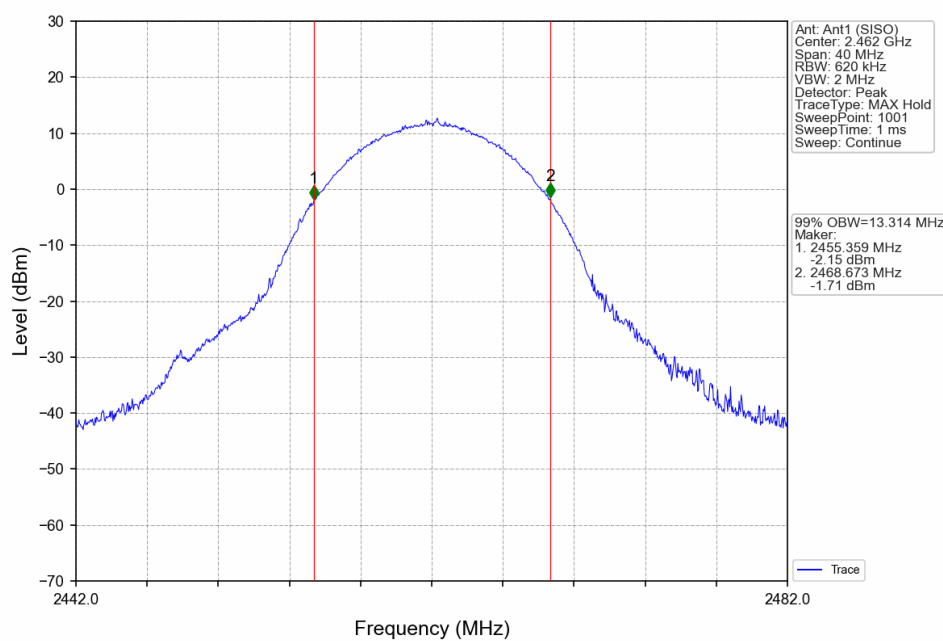
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

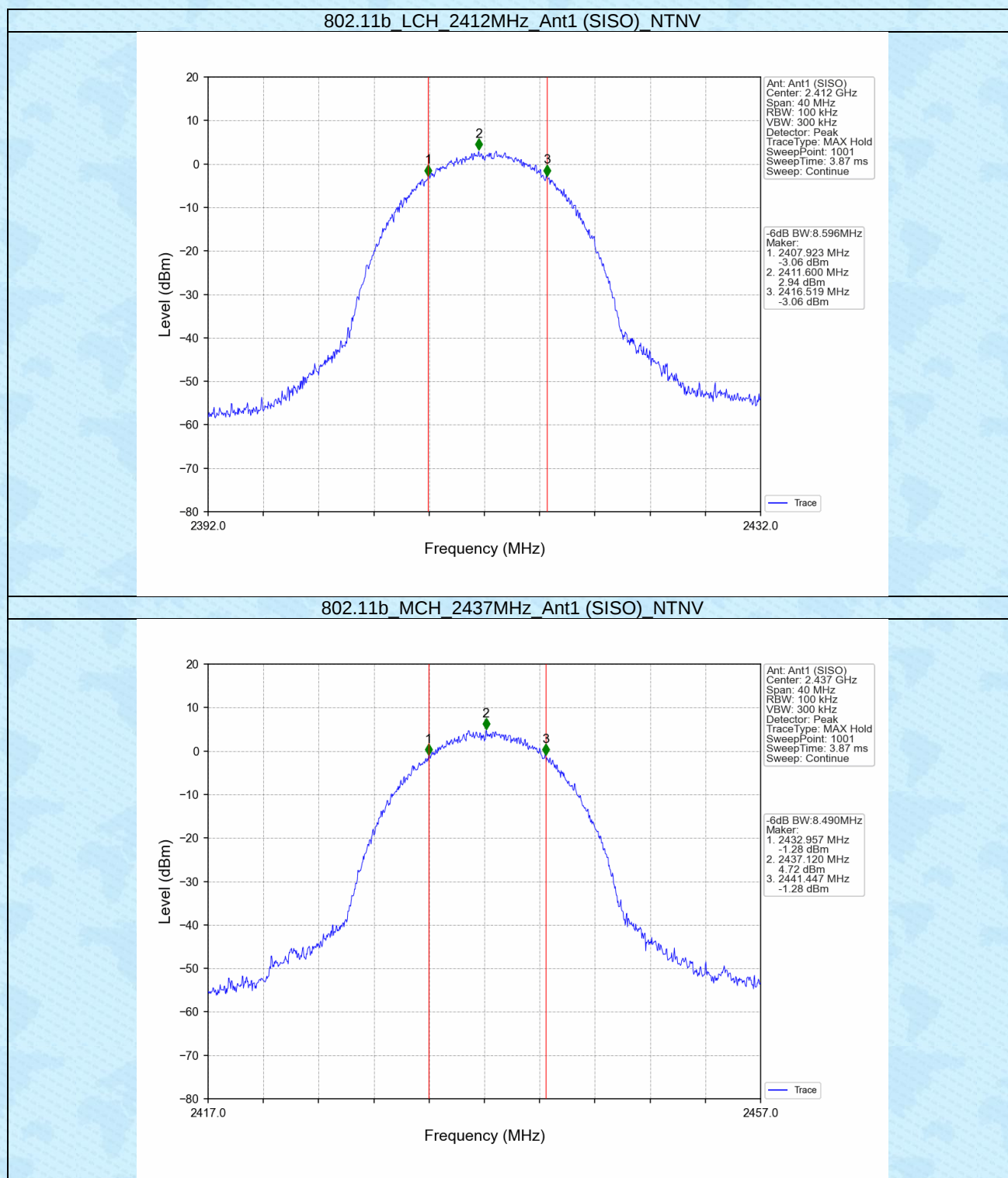


1.2 6dB BW

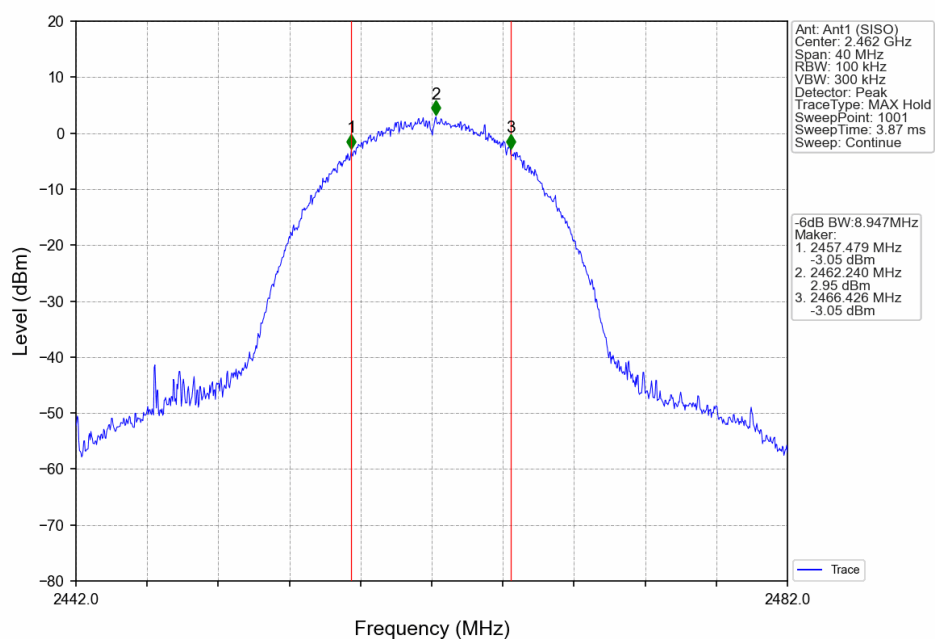
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.596	≥ 0.5	Pass
		2437	1	8.490	≥ 0.5	Pass
		2462	1	8.947	≥ 0.5	Pass
802.11g	SISO	2412	1	8.694	≥ 0.5	Pass
		2437	1	7.895	≥ 0.5	Pass
		2462	1	8.203	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	8.477	≥ 0.5	Pass
		2437	1	8.921	≥ 0.5	Pass
		2462	1	8.421	≥ 0.5	Pass

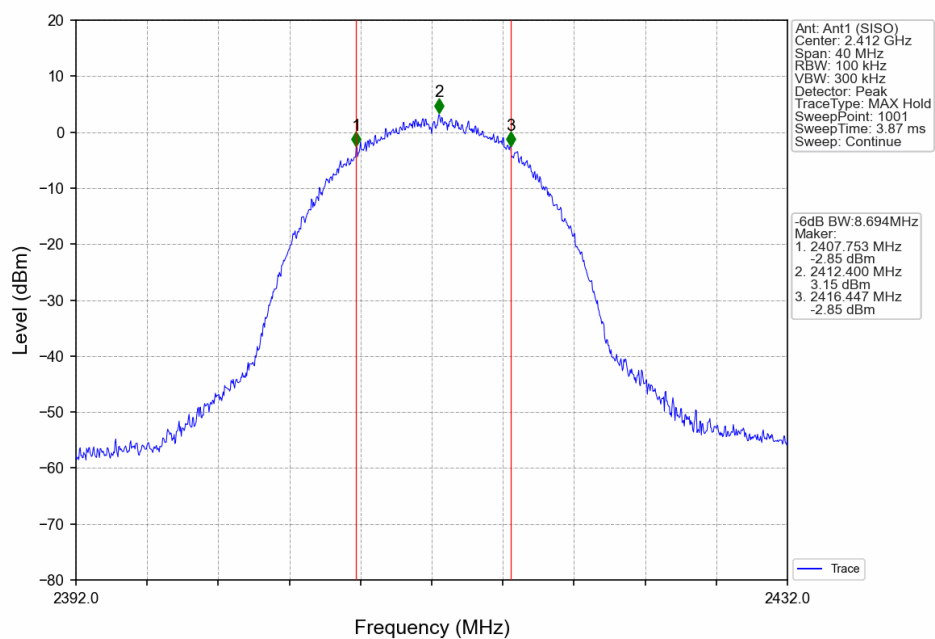
1.2.2 Test Graph



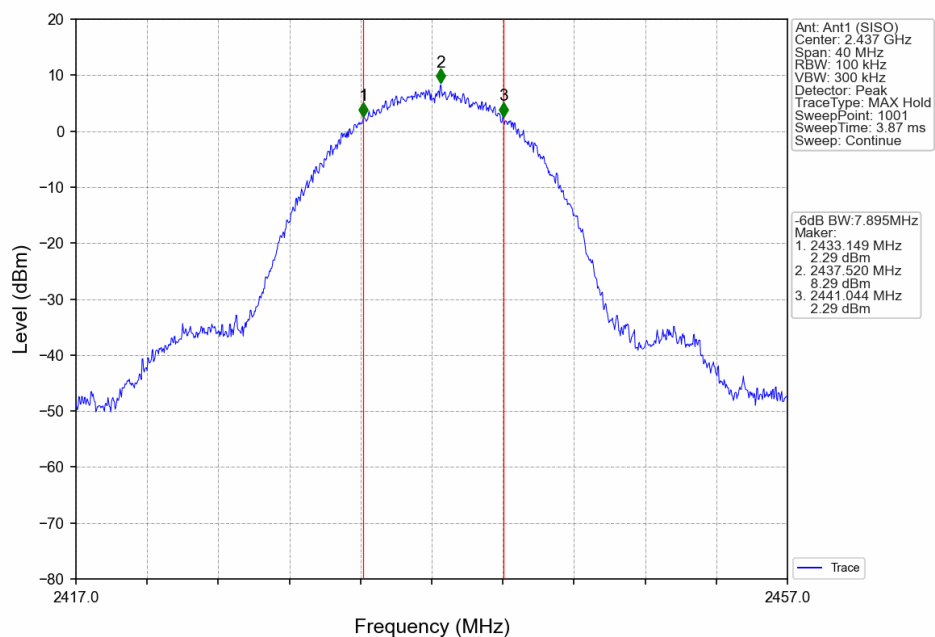
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



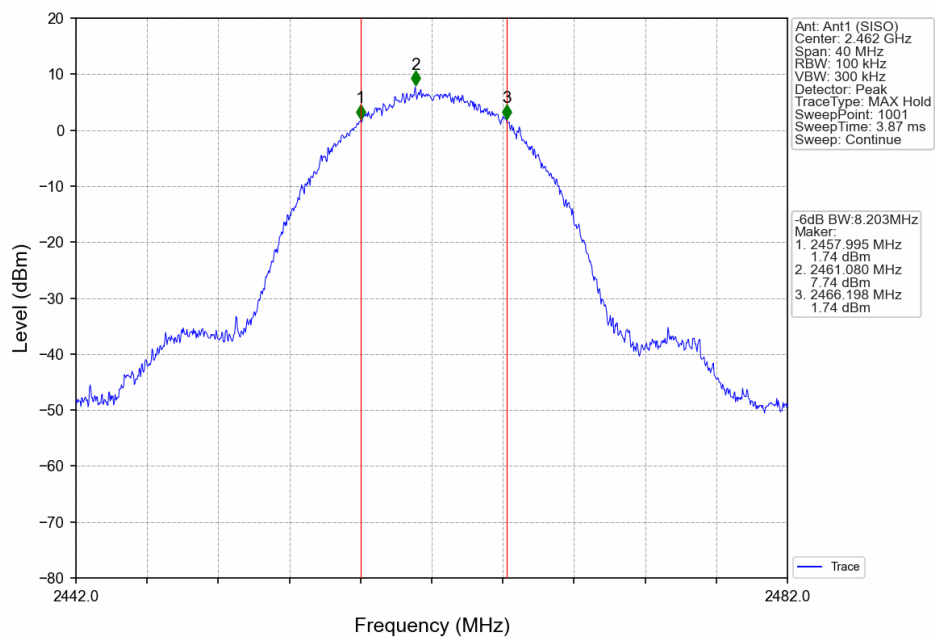
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



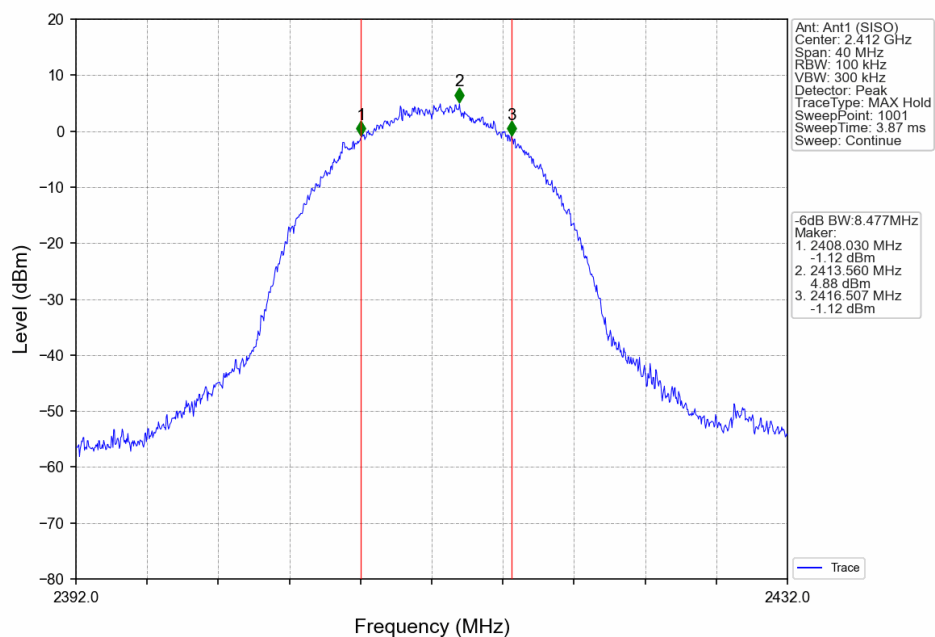
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



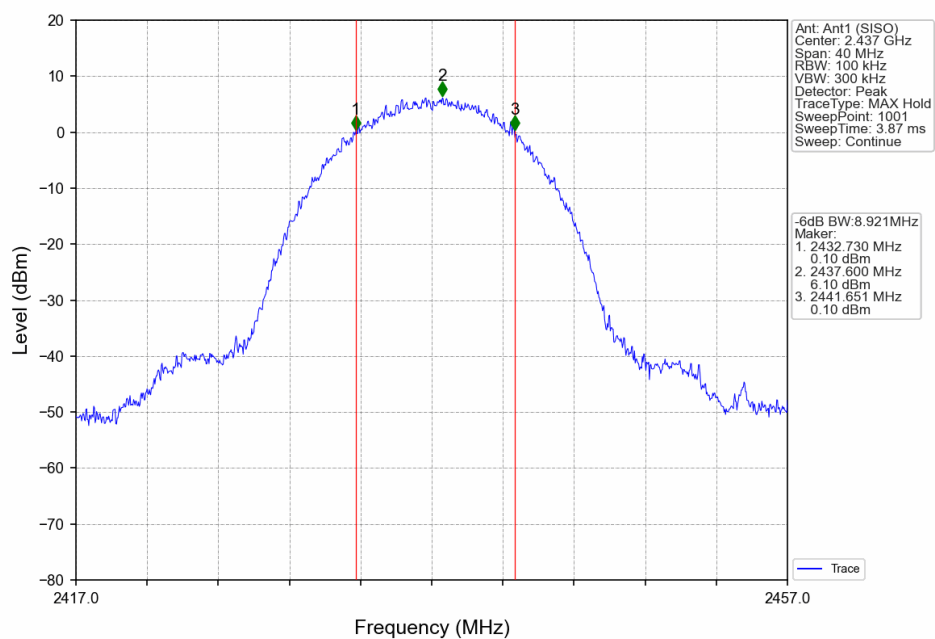
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



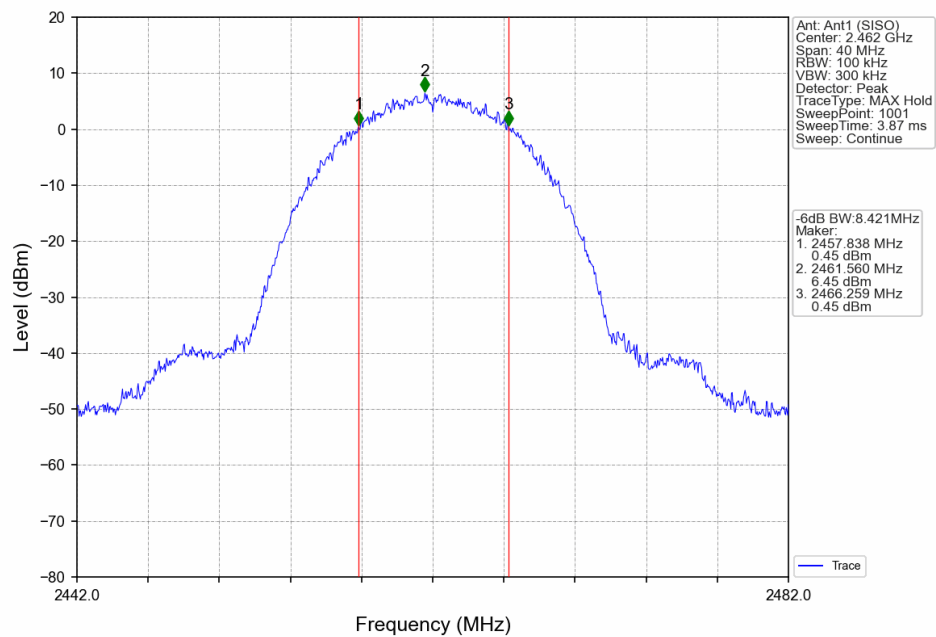
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	17.16	<=30	Pass
		2437	18.83	<=30	Pass
		2462	17.17	<=30	Pass
802.11g	SISO	2412	16.85	<=30	Pass
		2437	21.36	<=30	Pass
		2462	21.38	<=30	Pass
802.11n (HT20)	SISO	2412	18.88	<=30	Pass
		2437	20.77	<=30	Pass
		2462	20.50	<=30	Pass

Note1: Antenna Gain: Ant1: 3.14dBi;

3. Maximum Power Spectral Density

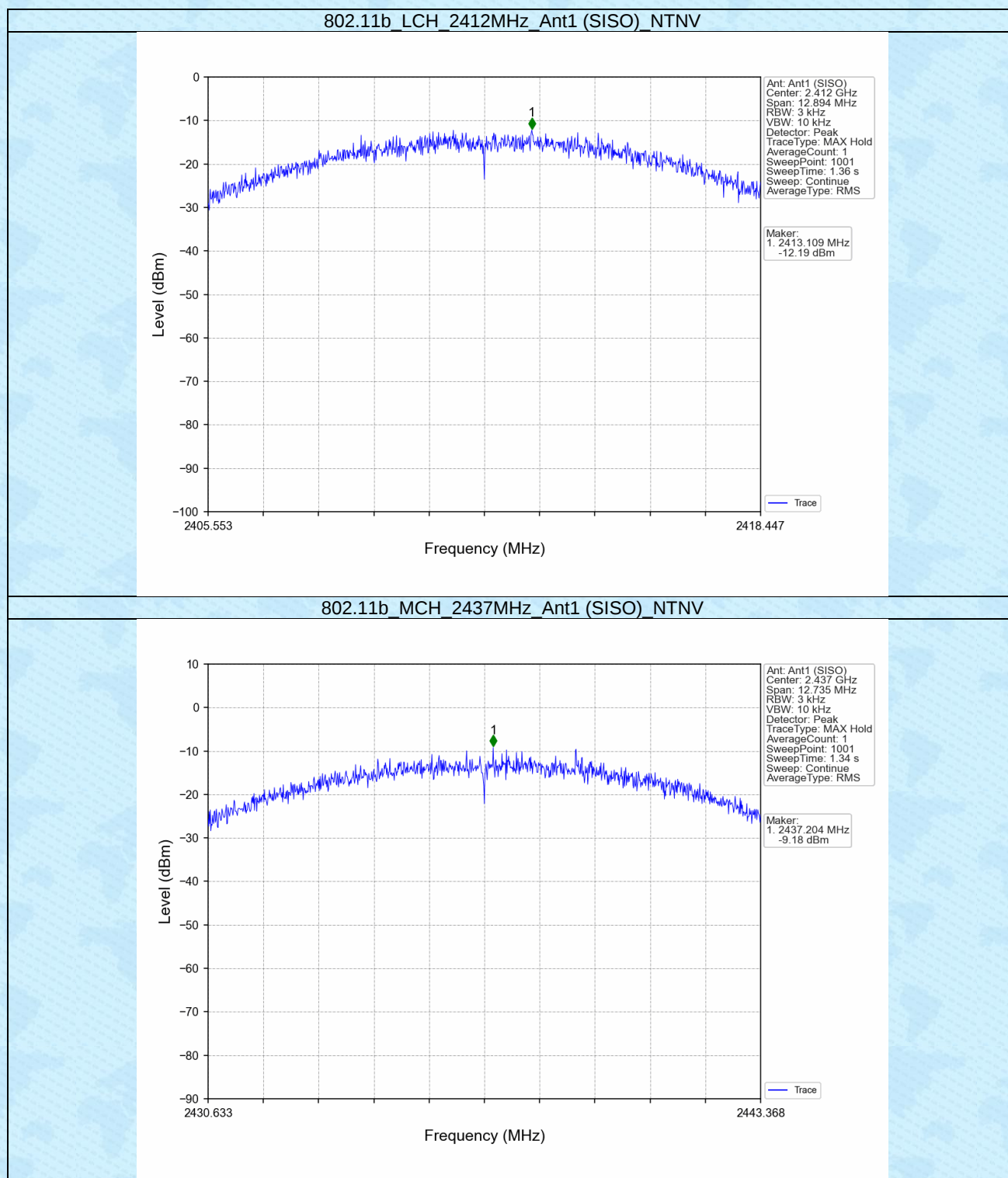
3.1 PSD

3.1.1 Test Result

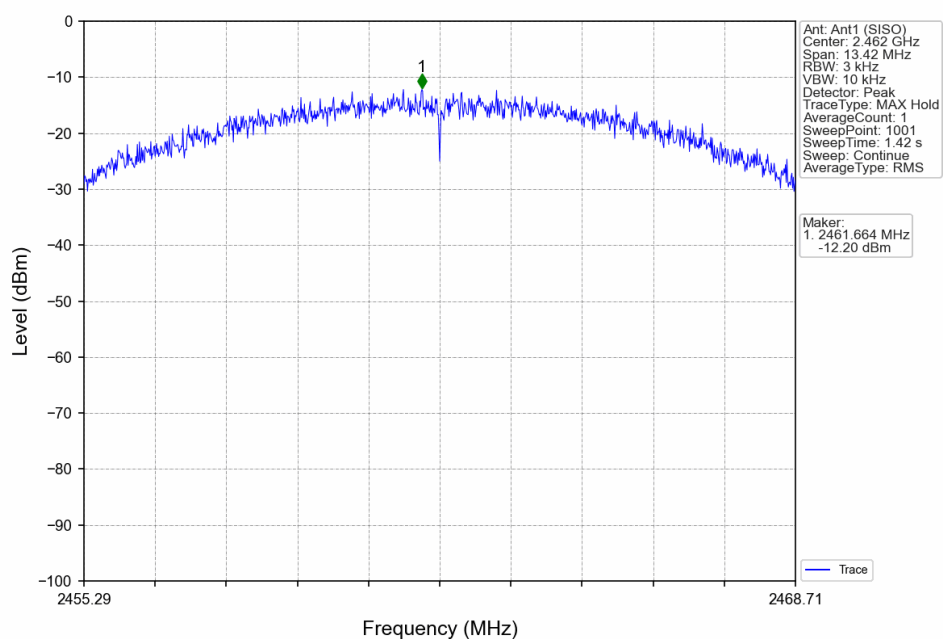
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-12.19	<=8	Pass
		2437	-9.18	<=8	Pass
		2462	-12.20	<=8	Pass
802.11g	SISO	2412	-12.45	<=8	Pass
		2437	-7.08	<=8	Pass
		2462	-7.42	<=8	Pass
802.11n (HT20)	SISO	2412	-9.52	<=8	Pass
		2437	-7.08	<=8	Pass
		2462	-8.28	<=8	Pass

Note1: Antenna Gain: Ant1: 3.14dBi;

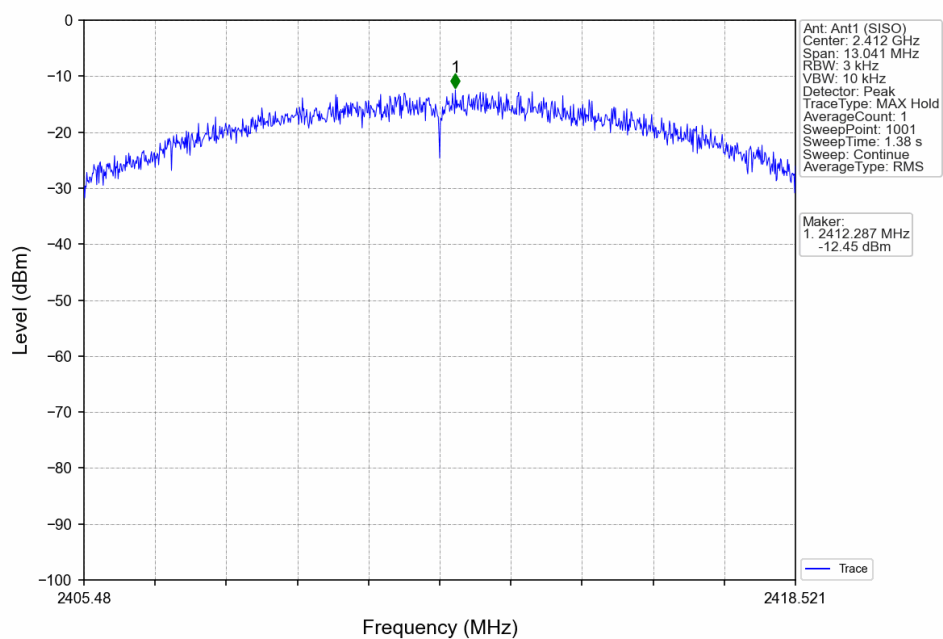
3.1.2 Test Graph



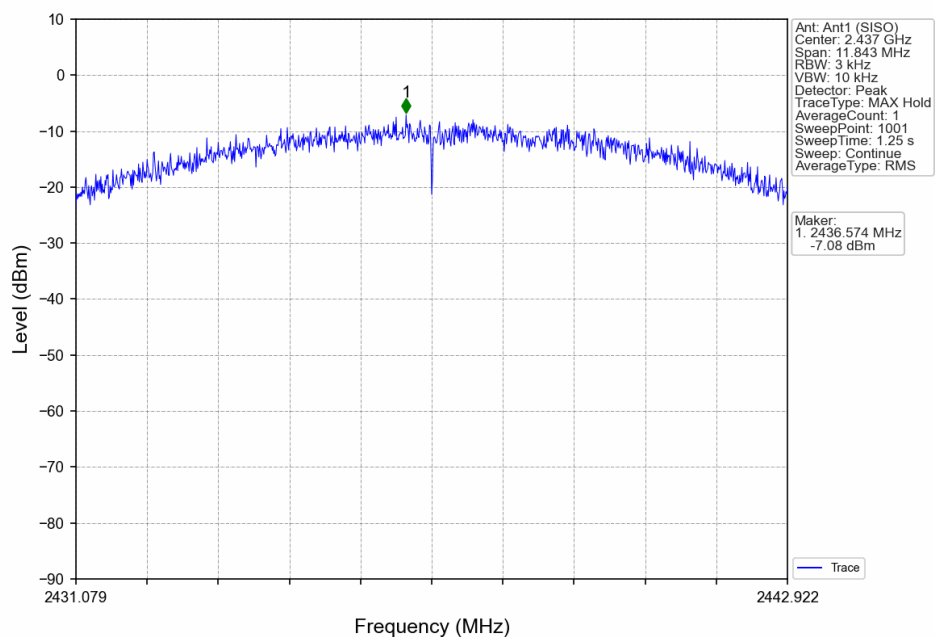
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



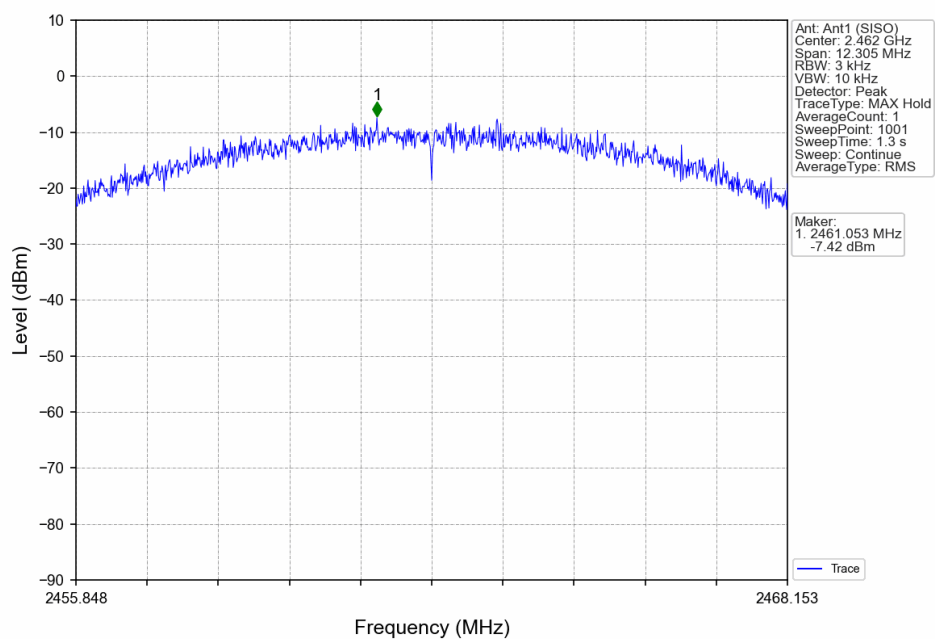
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



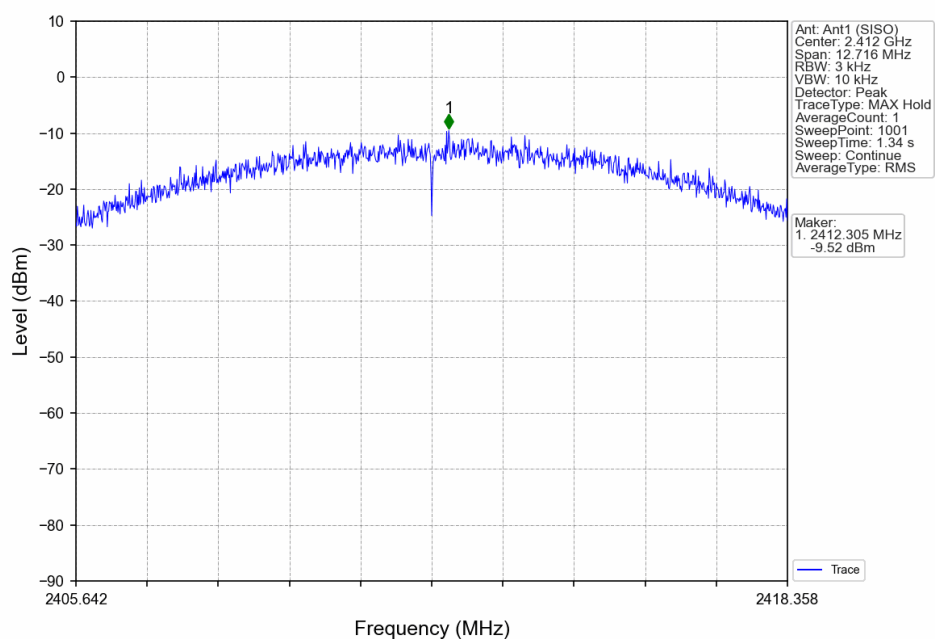
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



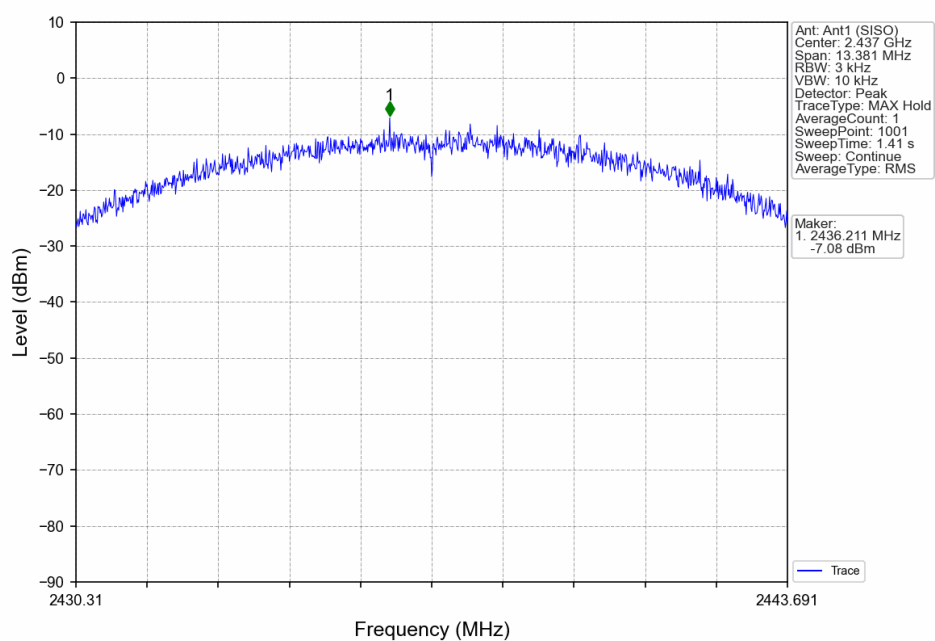
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



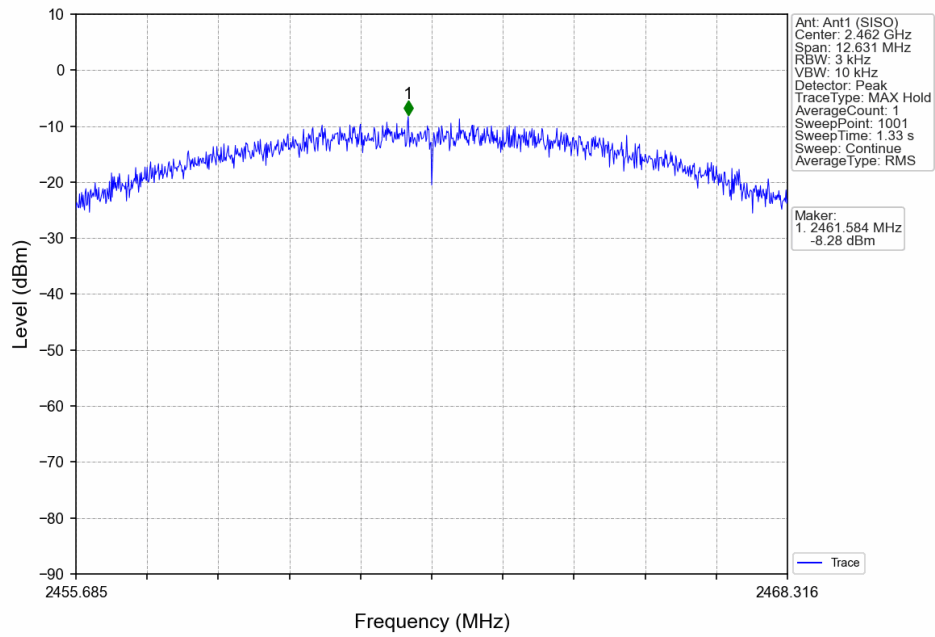
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



4. Unwanted Emissions InStandard Non-restricted Frequency Bands

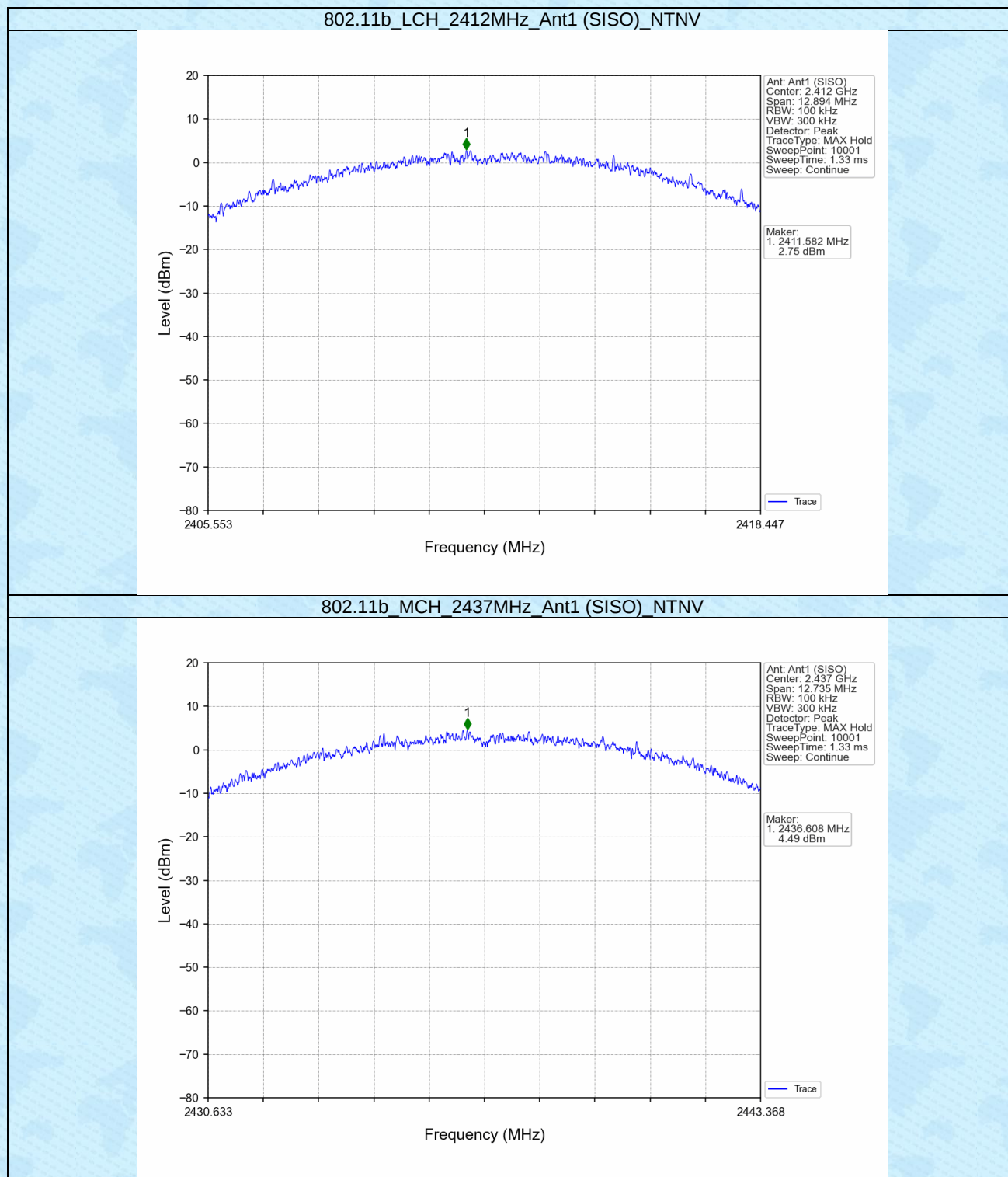
4.1 Ref

4.1.1 Test Result

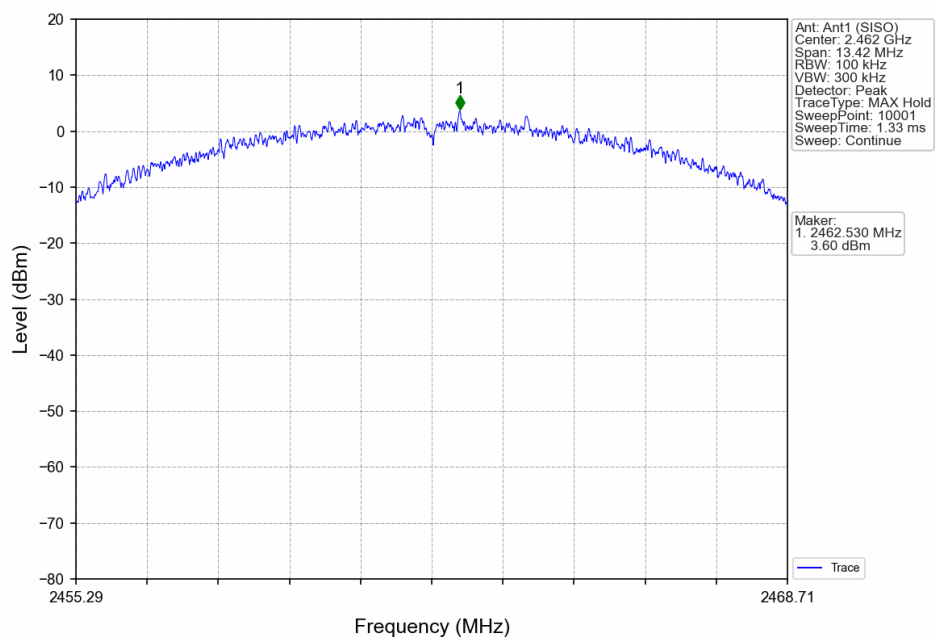
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.75
		2437	1	4.49
		2462	1	3.60
802.11g	SISO	2412	1	2.62
		2437	1	6.83
		2462	1	7.39
802.11n (HT20)	SISO	2412	1	4.15
		2437	1	6.60
		2462	1	6.76

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.
 Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

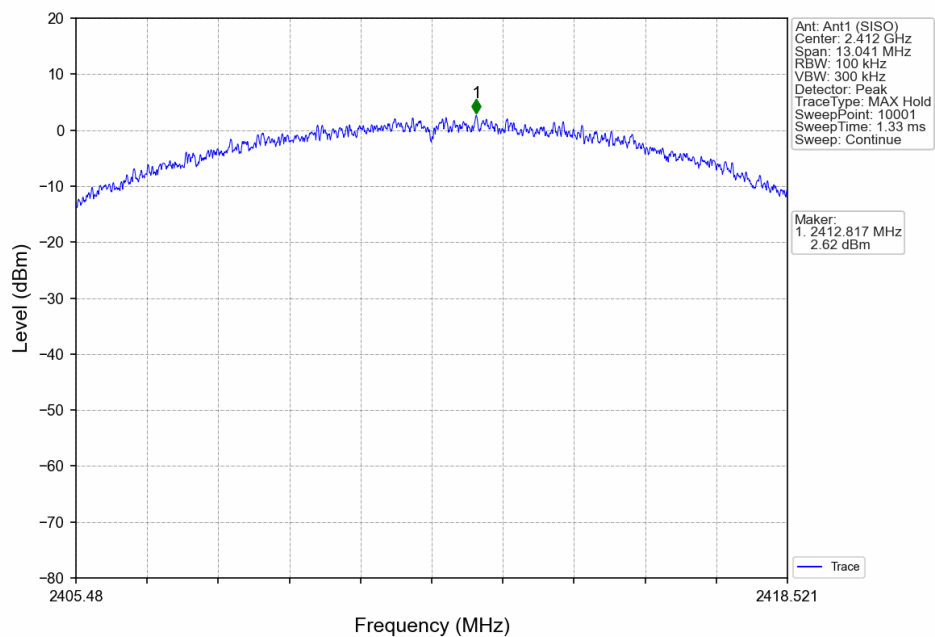
4.1.2 Test Graph



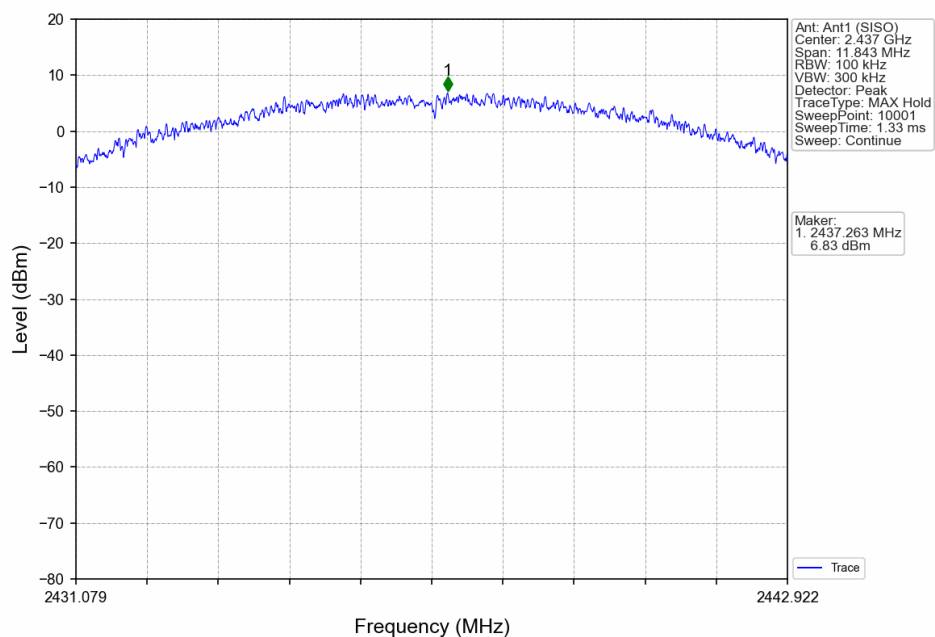
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



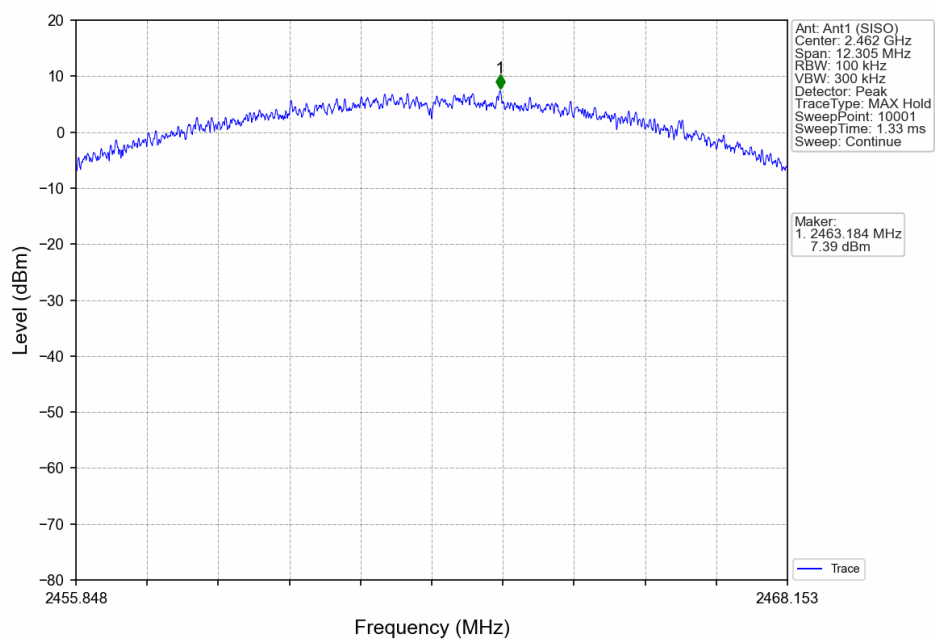
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



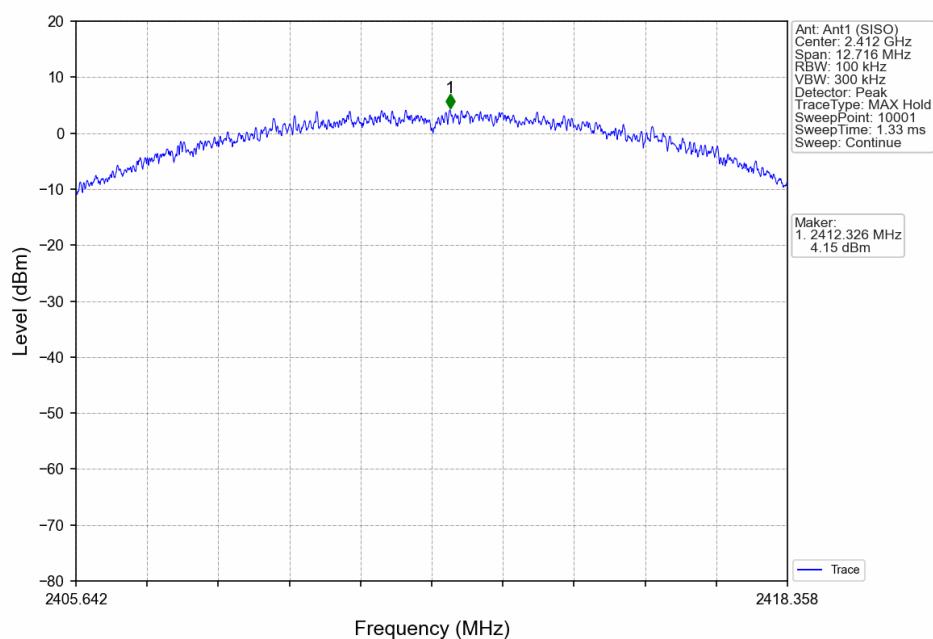
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



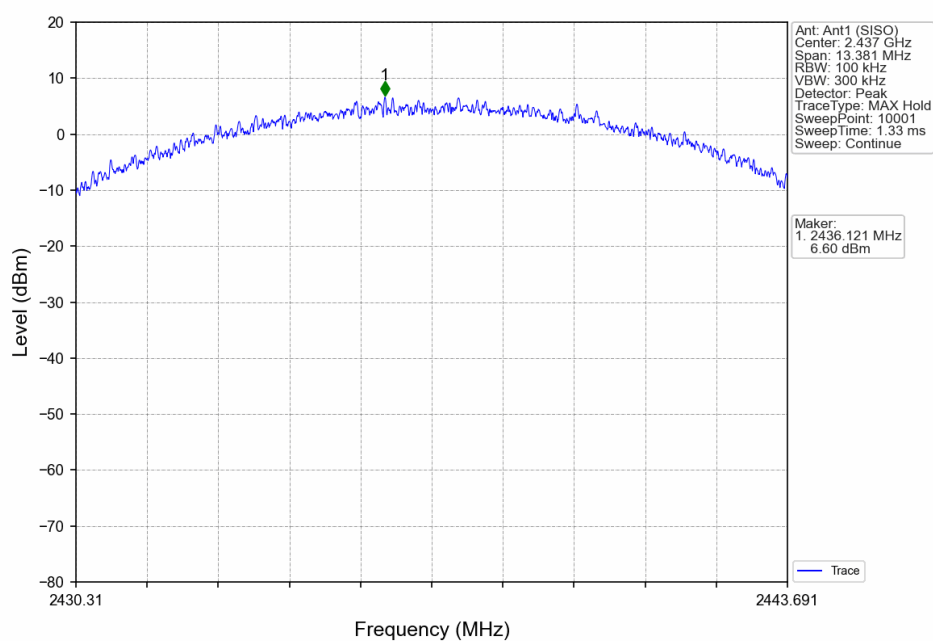
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



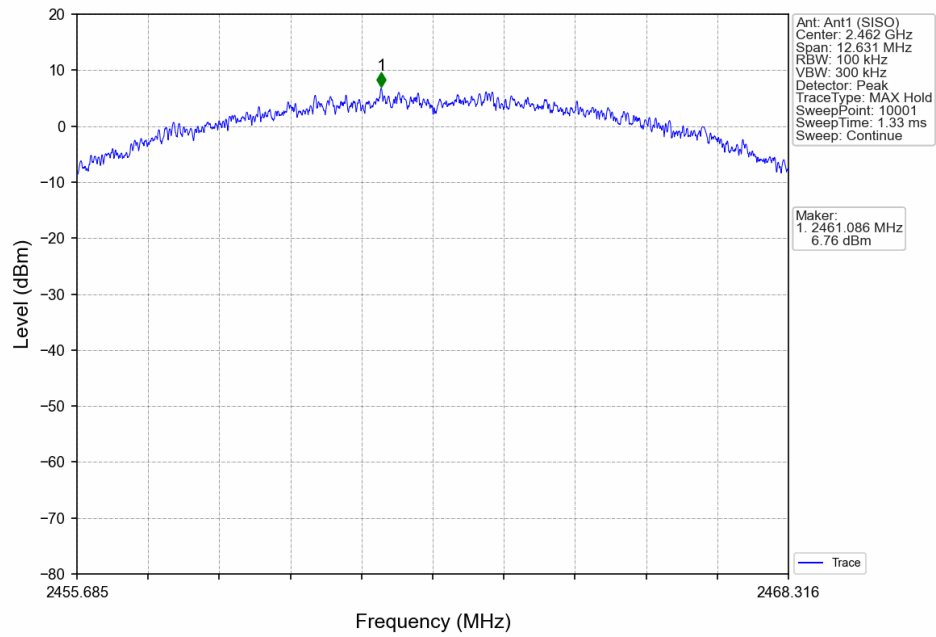
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



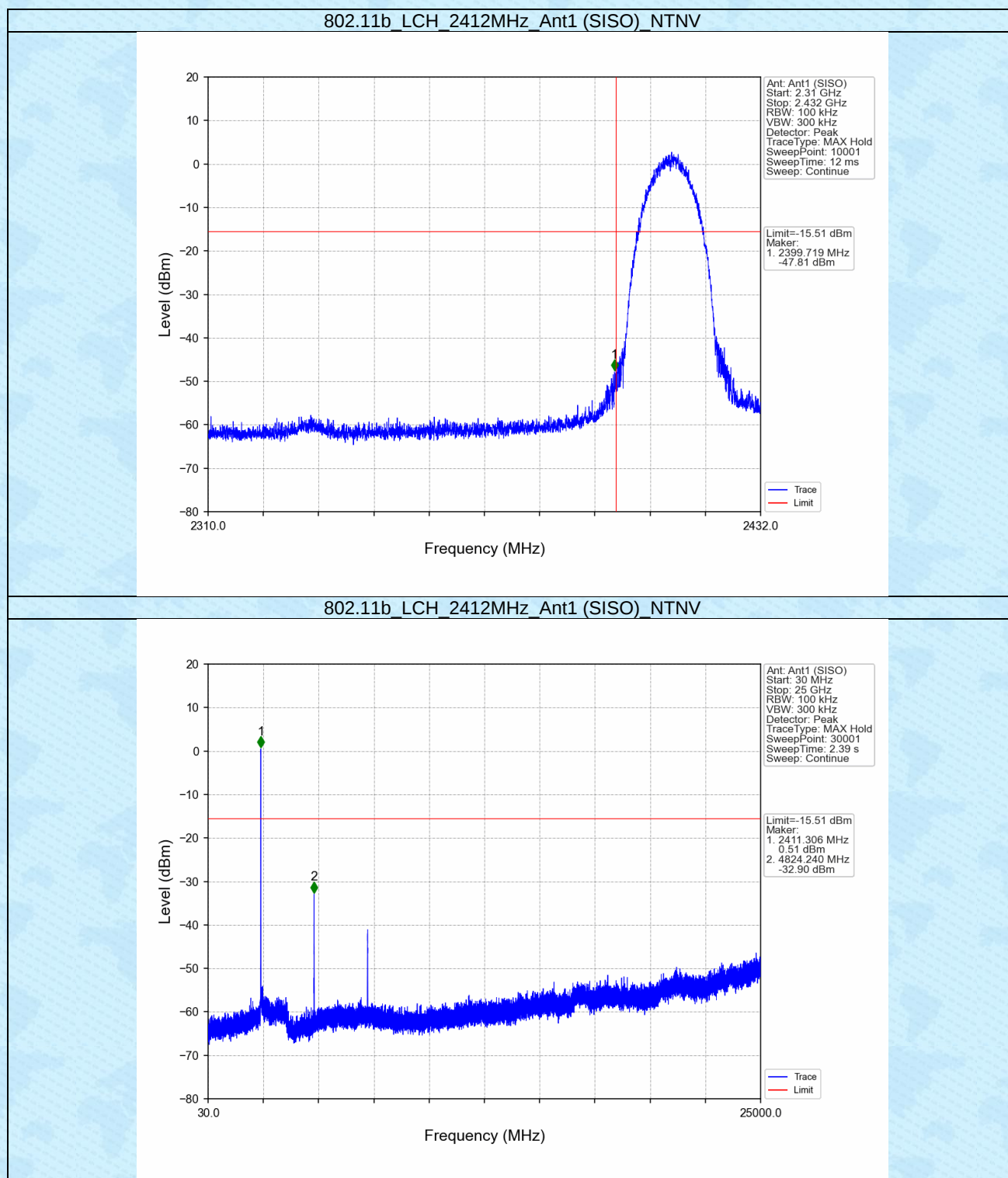
4.2 CSE

4.2.1 Test Result

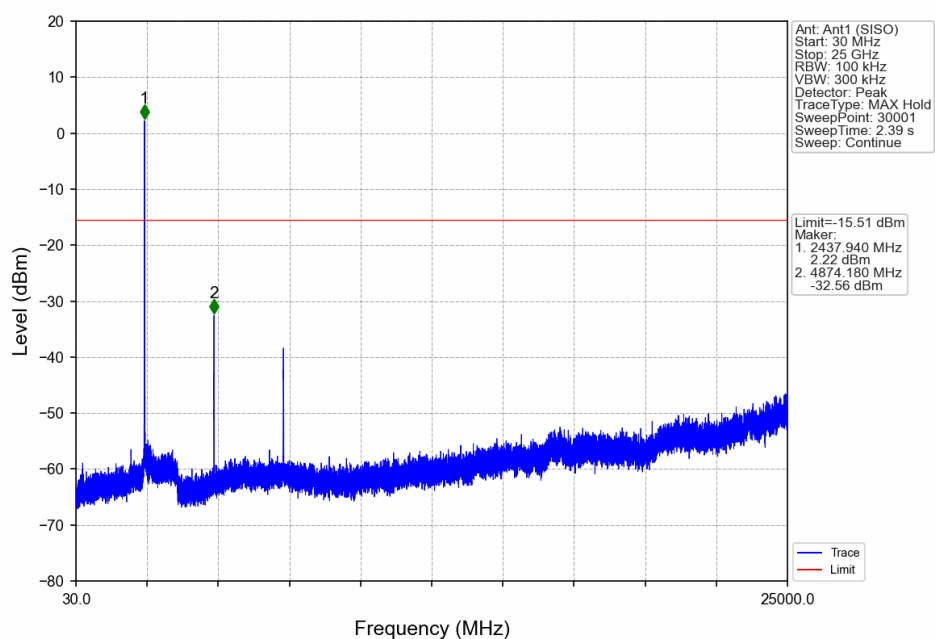
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.49	-15.51	Pass
		2437	1	4.49	-15.51	Pass
		2462	1	4.49	-15.51	Pass
802.11g	SISO	2412	1	7.39	-12.61	Pass
		2437	1	7.39	-12.61	Pass
		2462	1	7.39	-12.61	Pass
802.11n (HT20)	SISO	2412	1	6.76	-13.24	Pass
		2437	1	6.76	-13.24	Pass
		2462	1	6.76	-13.24	Pass

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.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

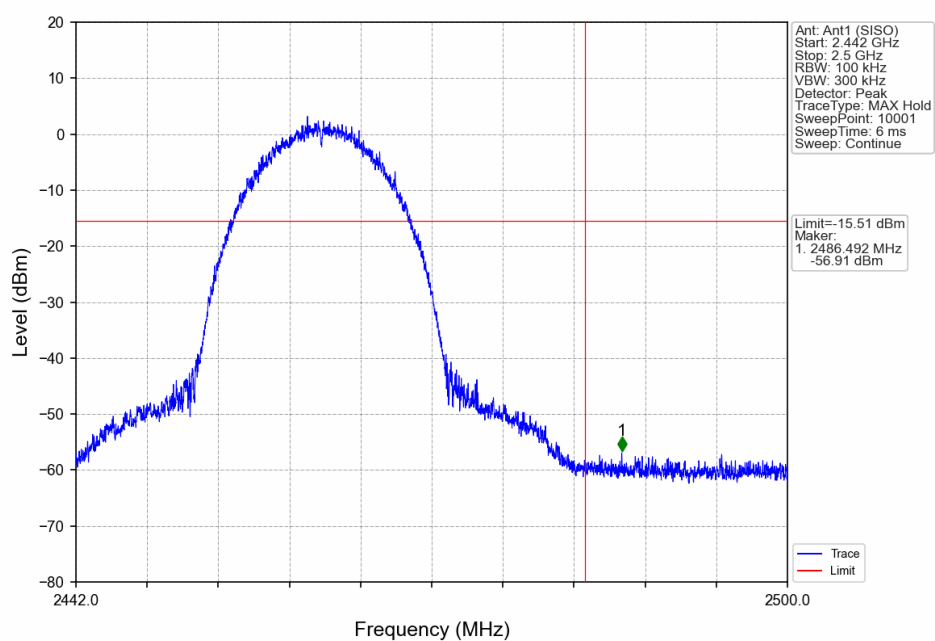
4.2.2 Test Graph



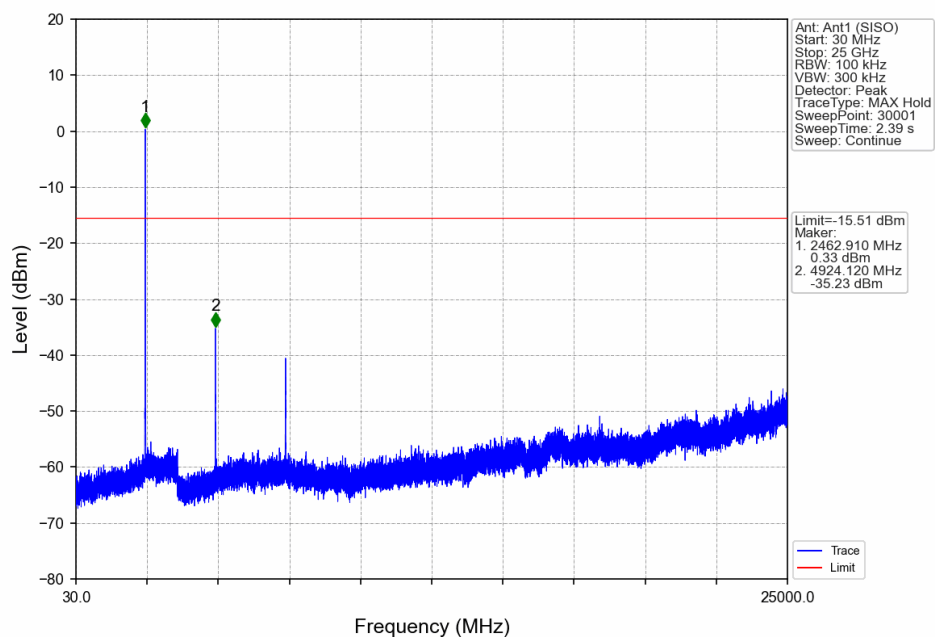
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



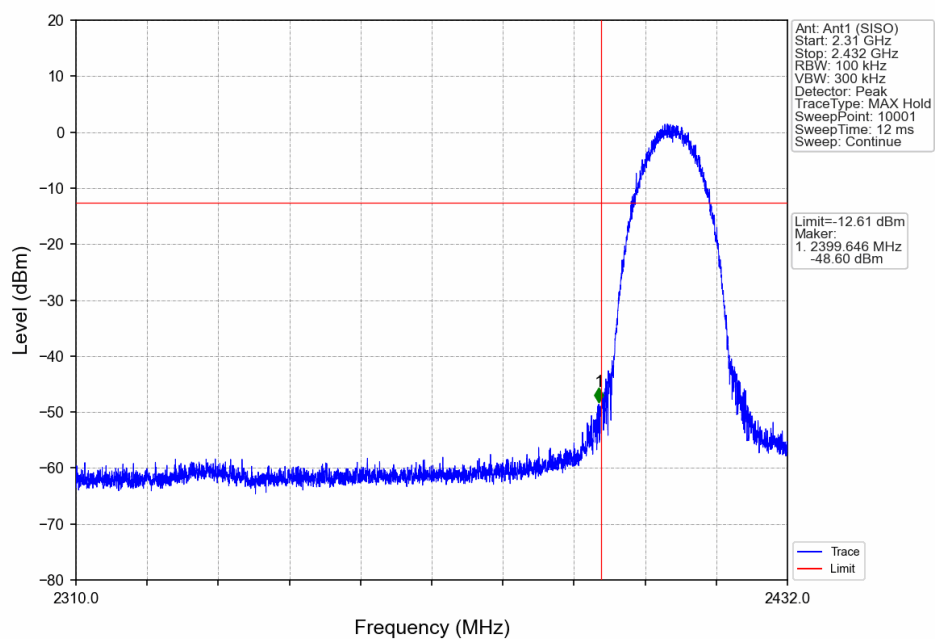
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



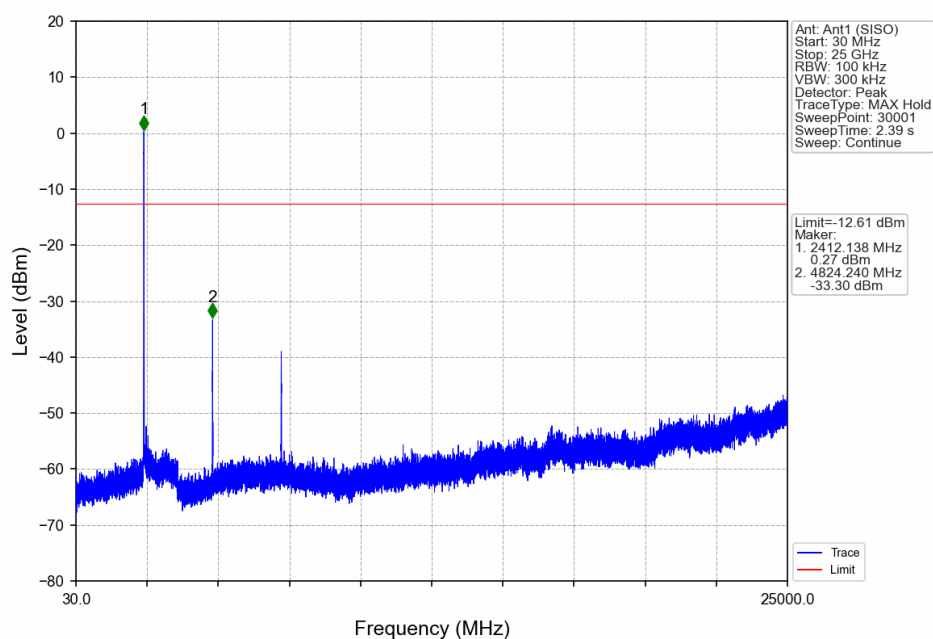
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



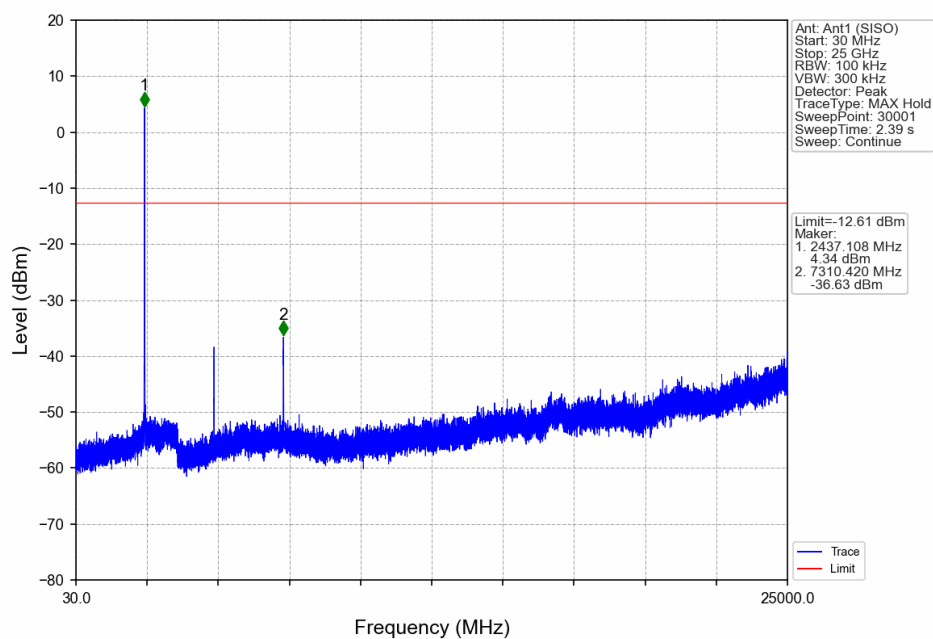
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



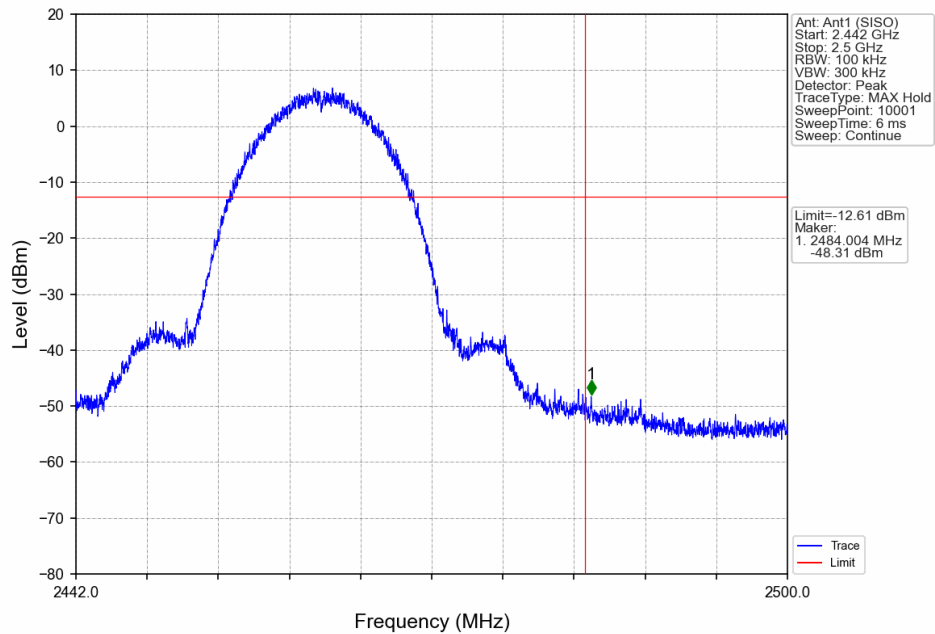
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



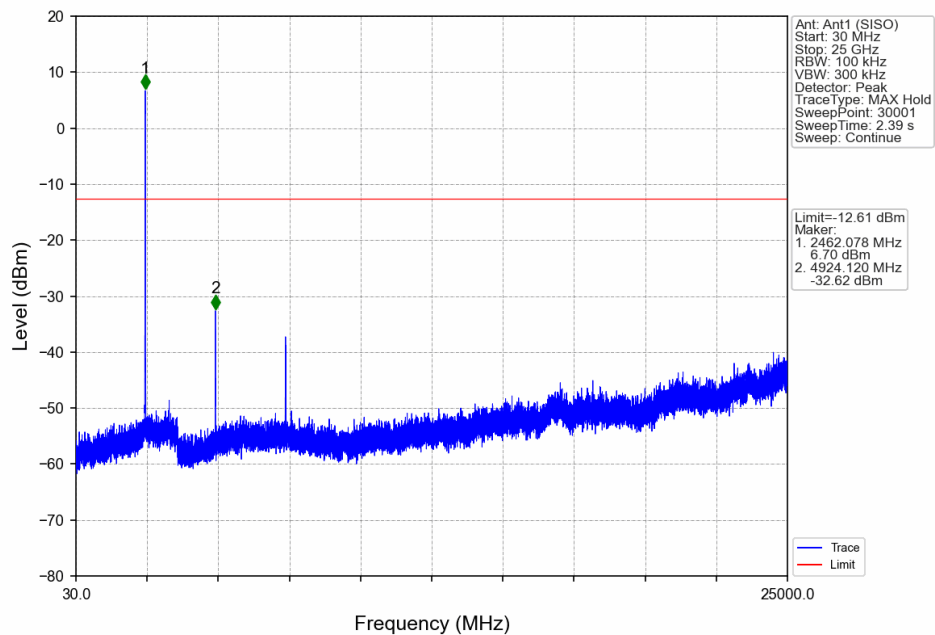
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



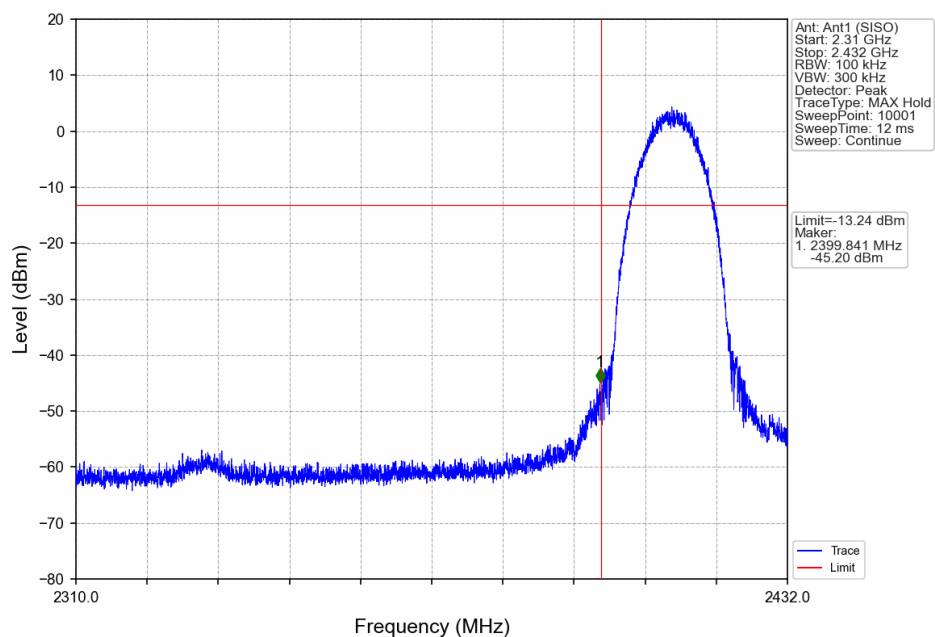
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



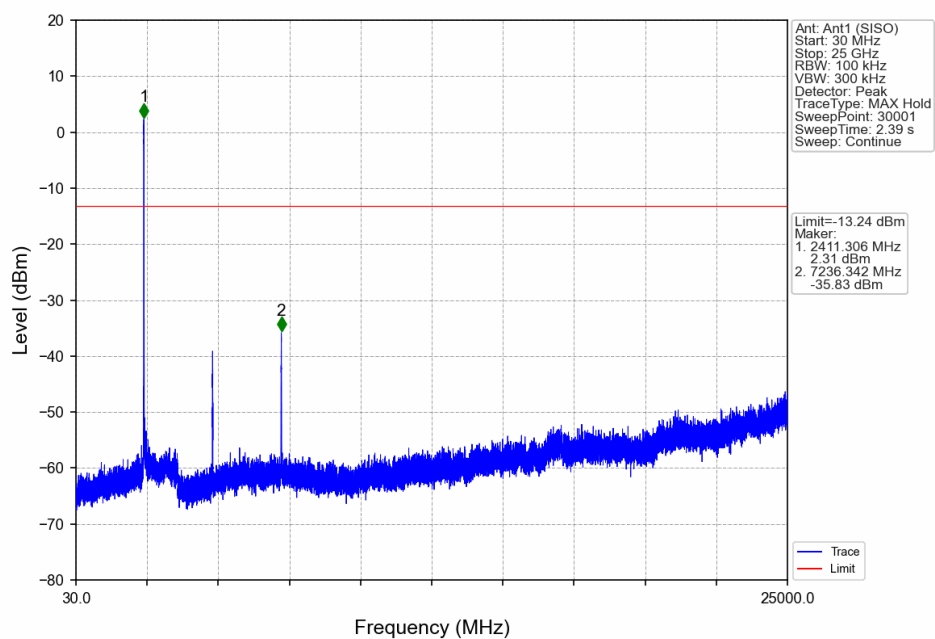
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



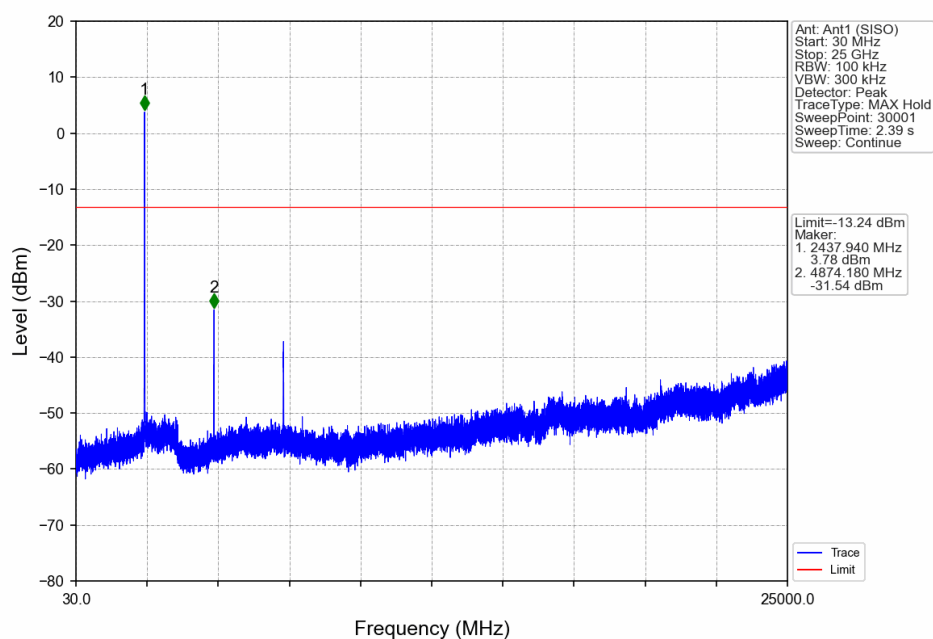
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



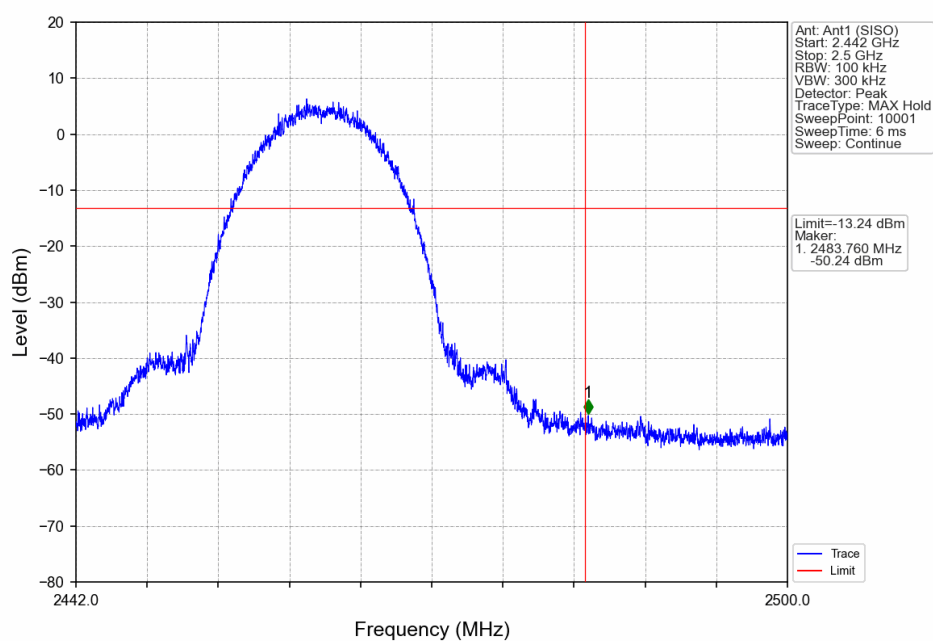
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



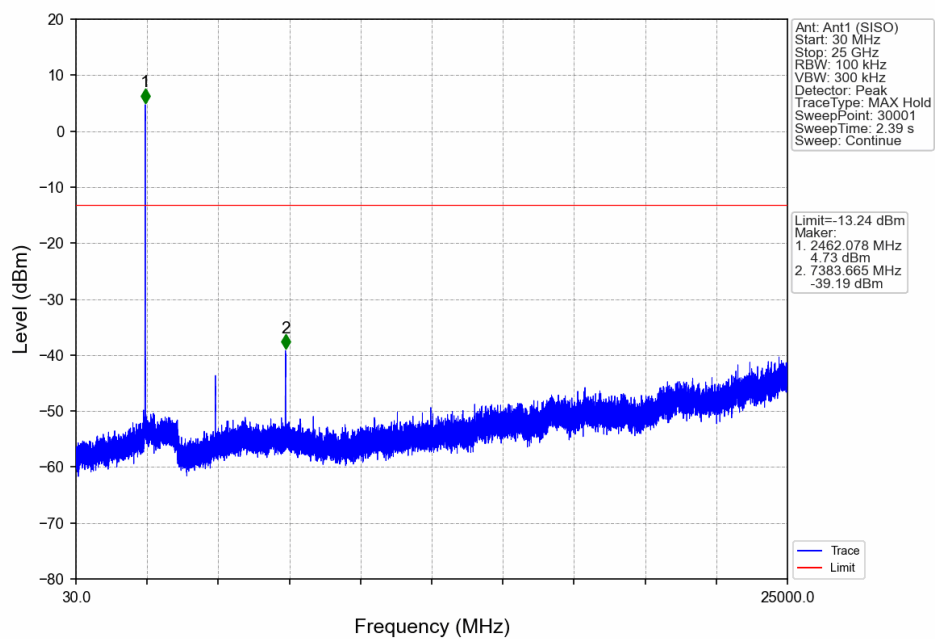
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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