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Appendix RF test data for WIFI2.4G

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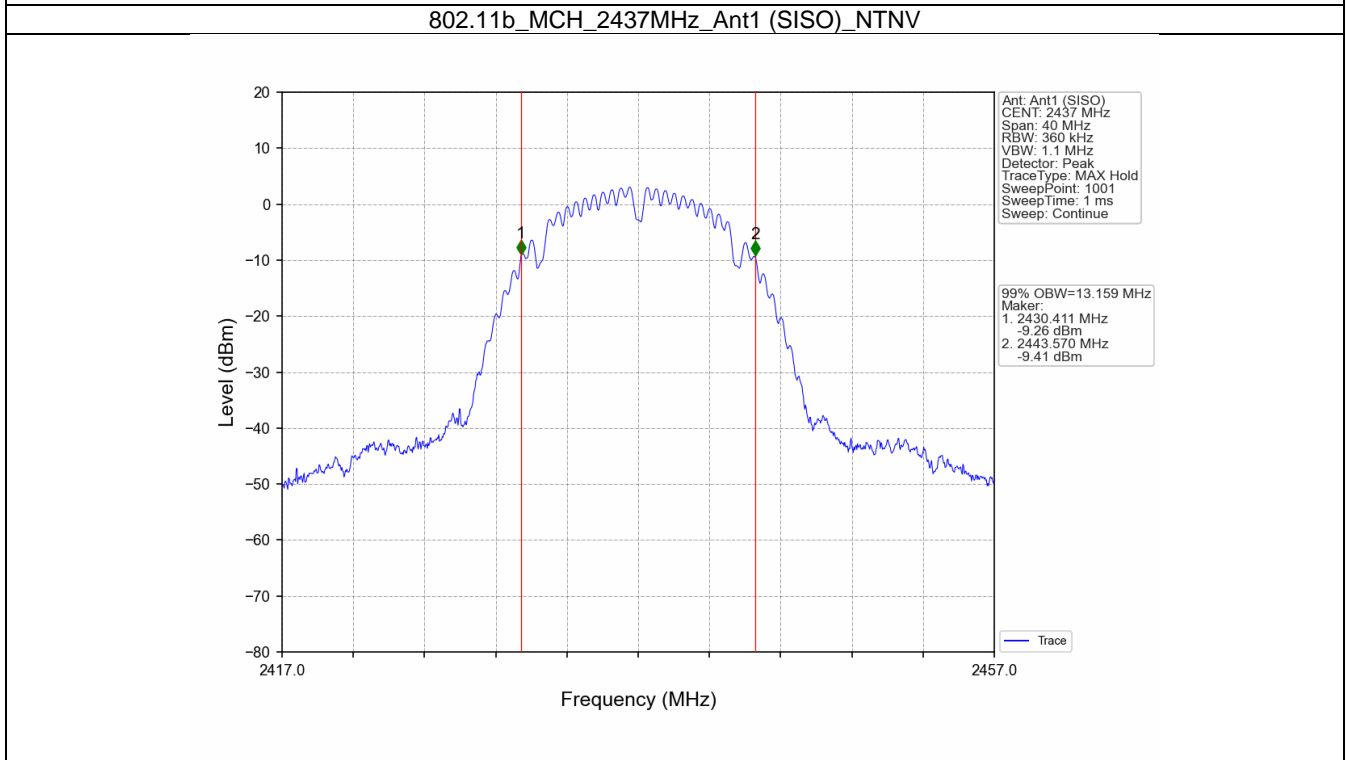
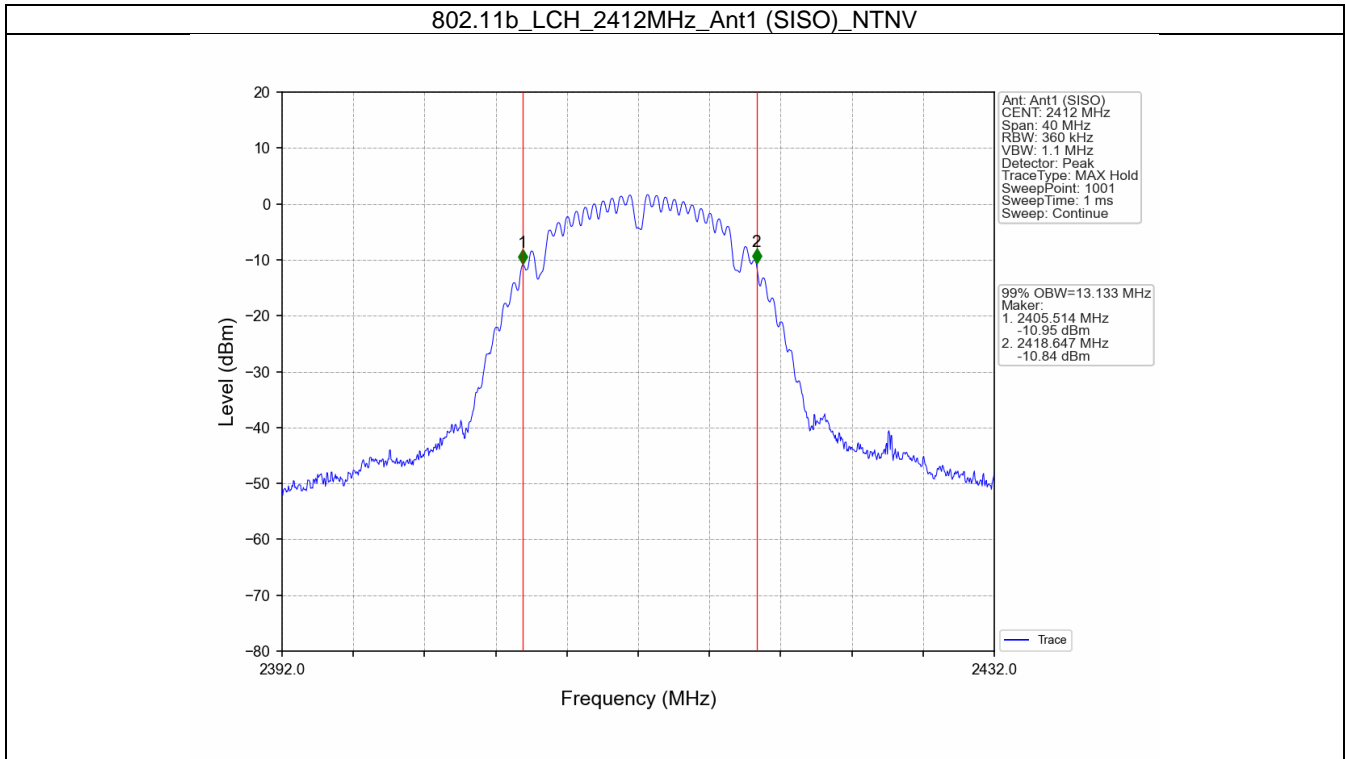
1. Bandwidth

1.1 OBW

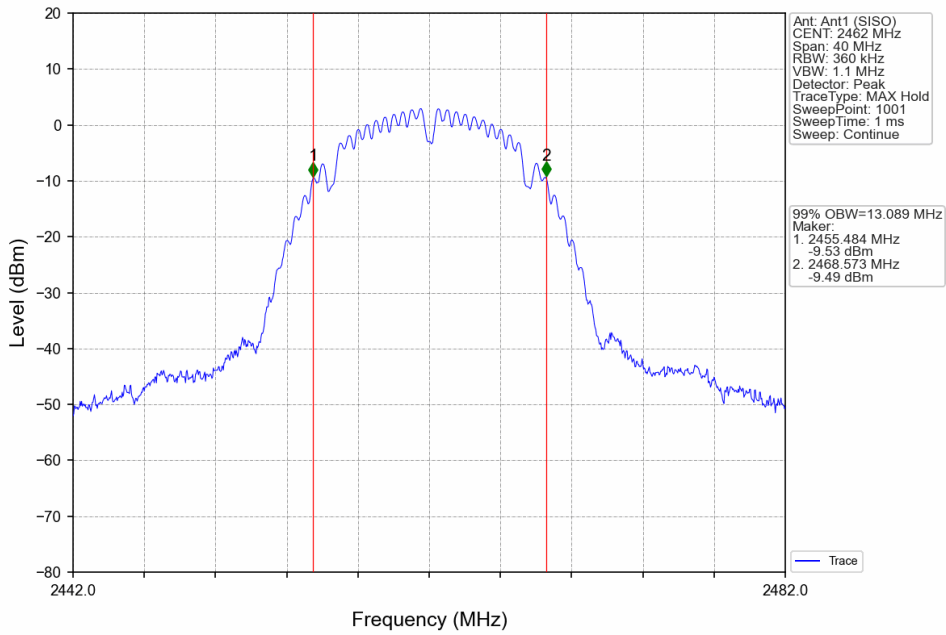
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.133	/	Pass
		2437	1	13.159	/	Pass
		2462	1	13.089	/	Pass
802.11g	SISO	2412	1	18.127	/	Pass
		2437	1	18.148	/	Pass
		2462	1	17.997	/	Pass
802.11n (HT20)	SISO	2412	1	18.875	/	Pass
		2437	1	18.935	/	Pass
		2462	1	18.832	/	Pass

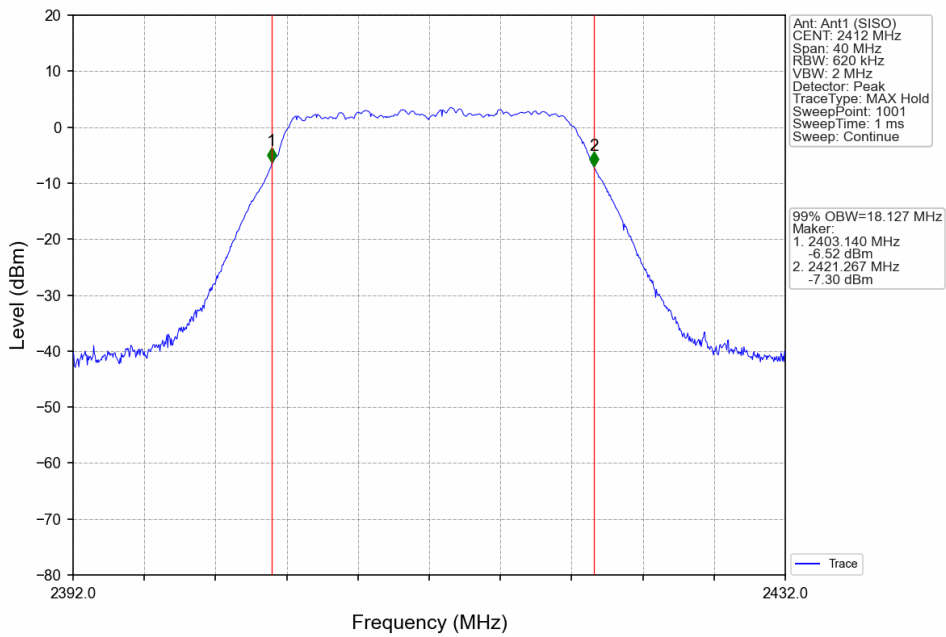
1.1.2 Test Graph



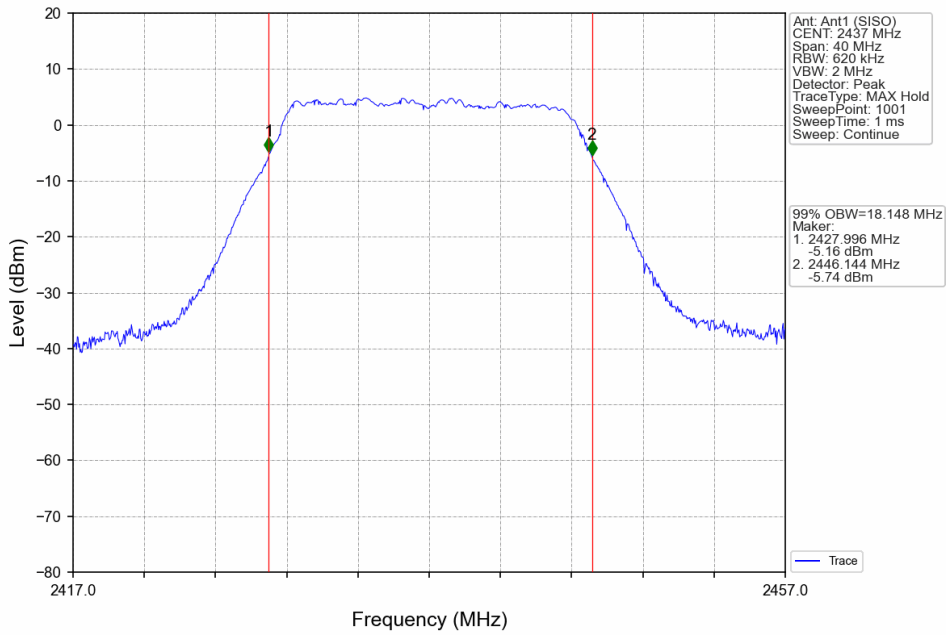
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



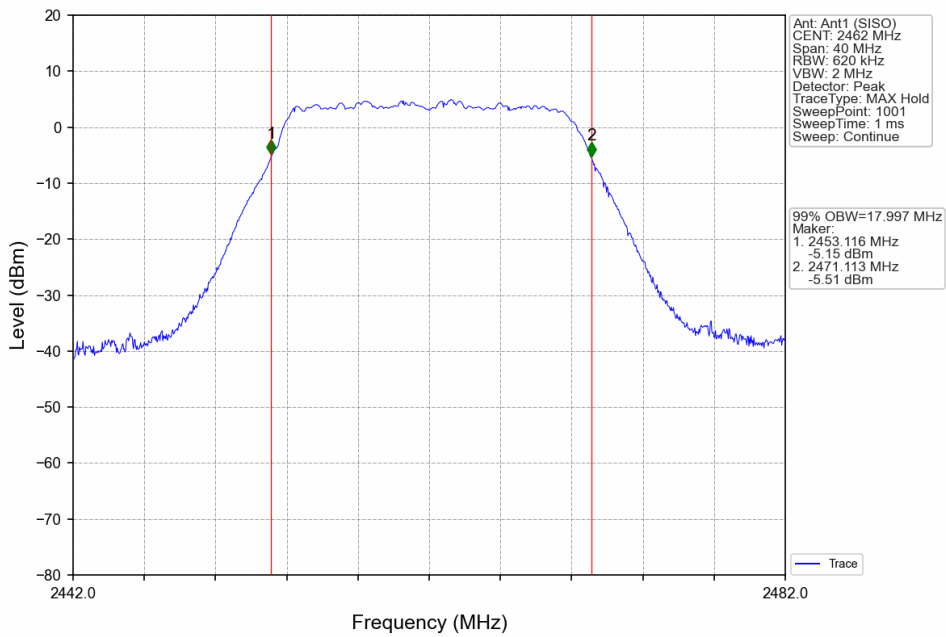
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



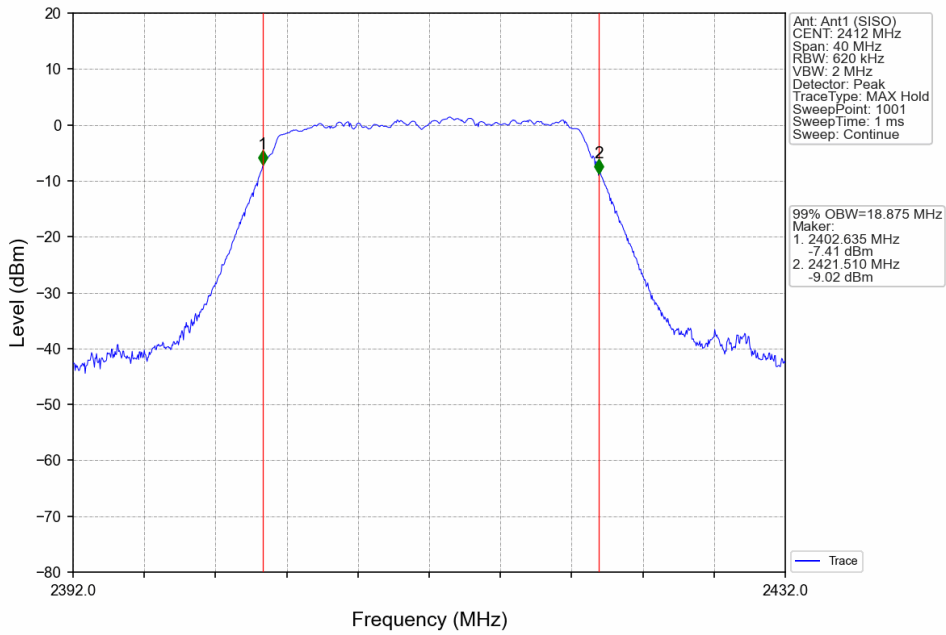
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



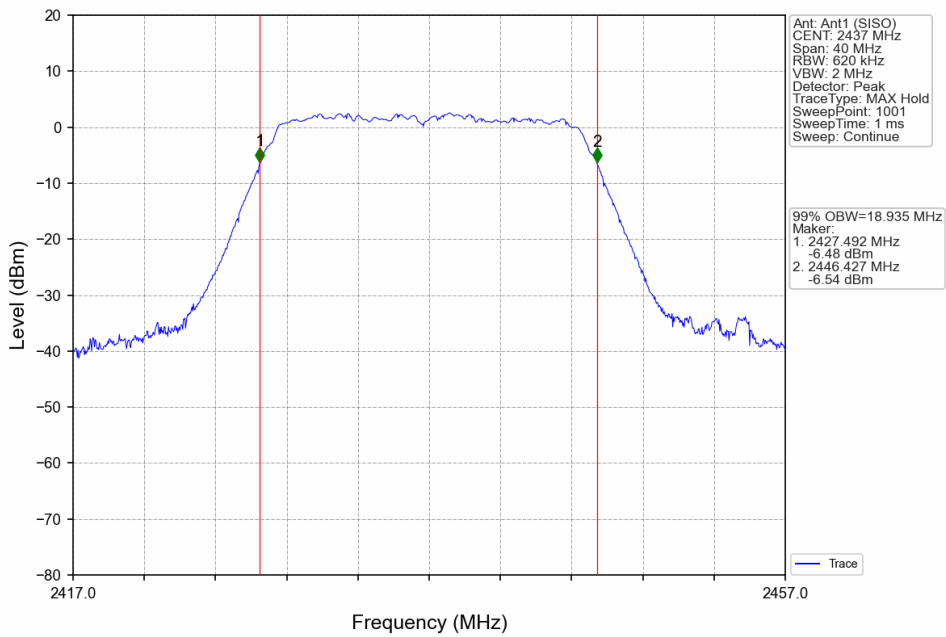
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

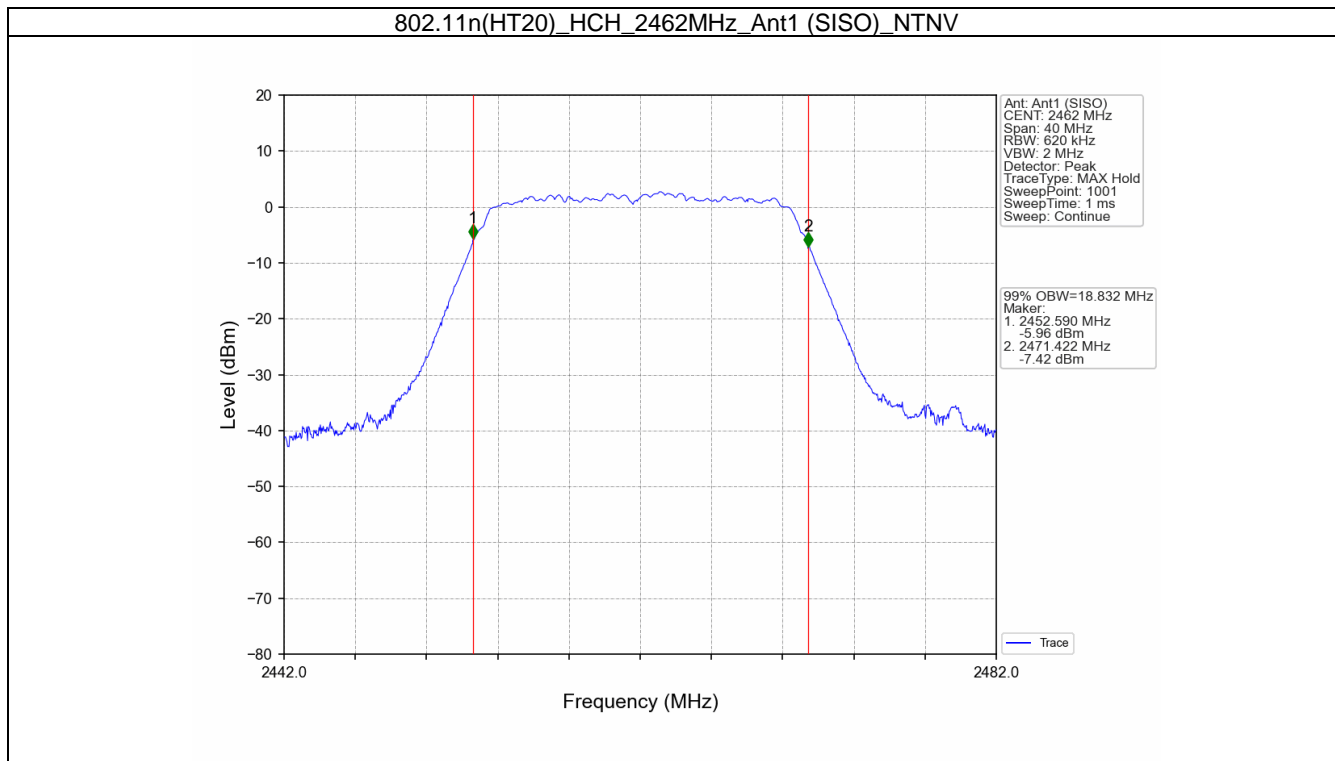


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

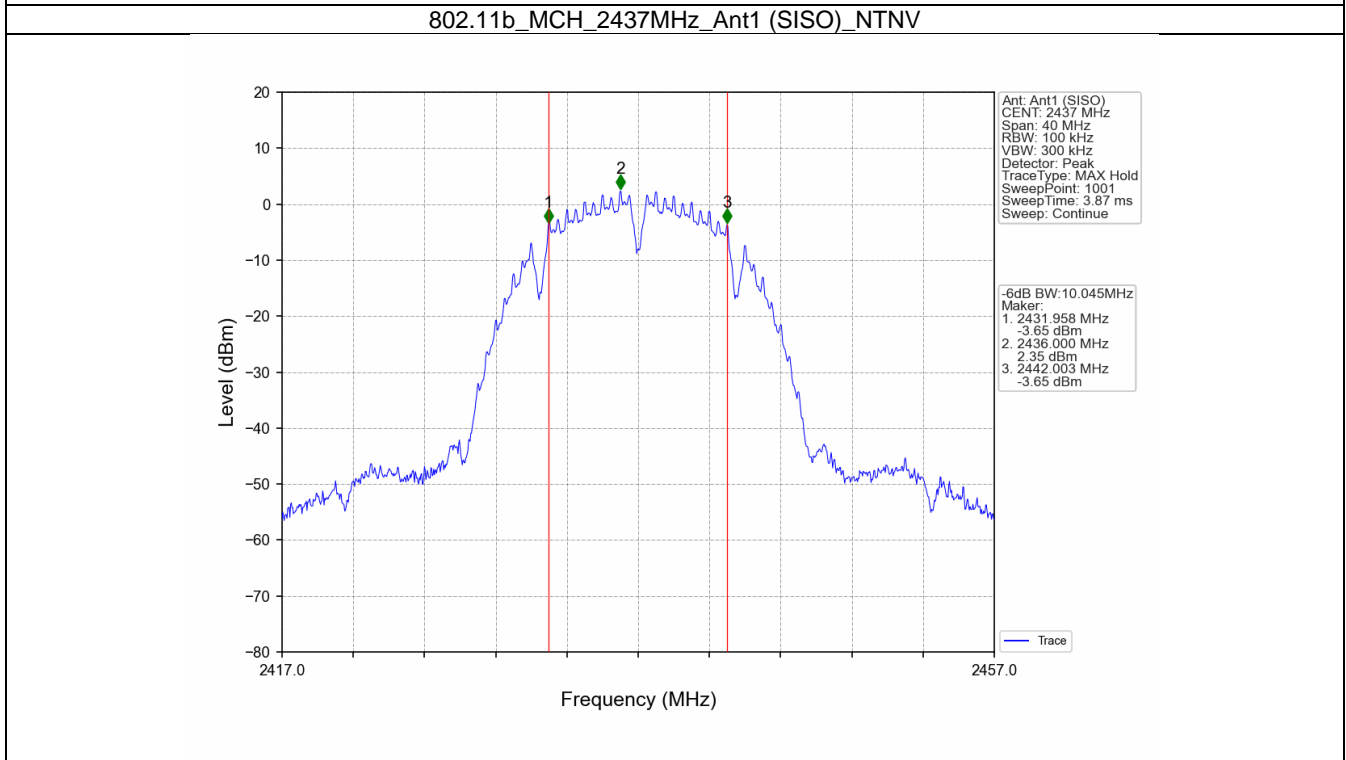
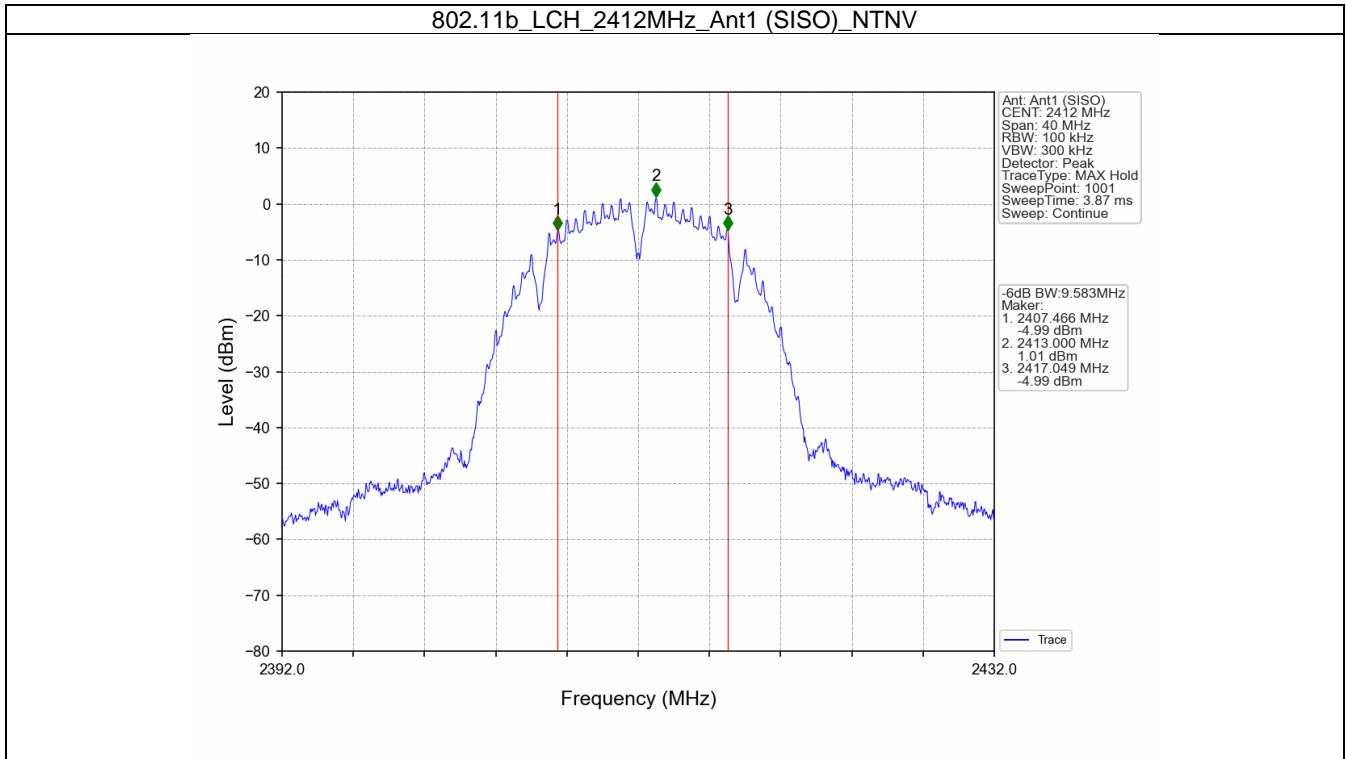




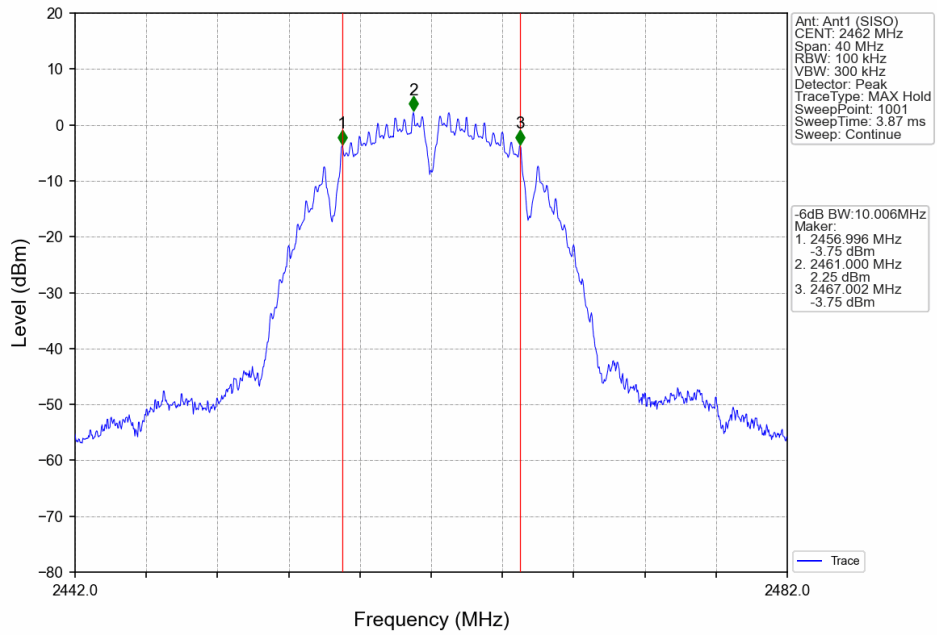
1.2 6dB BW**1.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.583	≥ 0.5	Pass
		2437	1	10.045	≥ 0.5	Pass
		2462	1	10.006	≥ 0.5	Pass
802.11g	SISO	2412	1	16.068	≥ 0.5	Pass
		2437	1	16.354	≥ 0.5	Pass
		2462	1	16.101	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.662	≥ 0.5	Pass
		2437	1	16.951	≥ 0.5	Pass
		2462	1	16.380	≥ 0.5	Pass

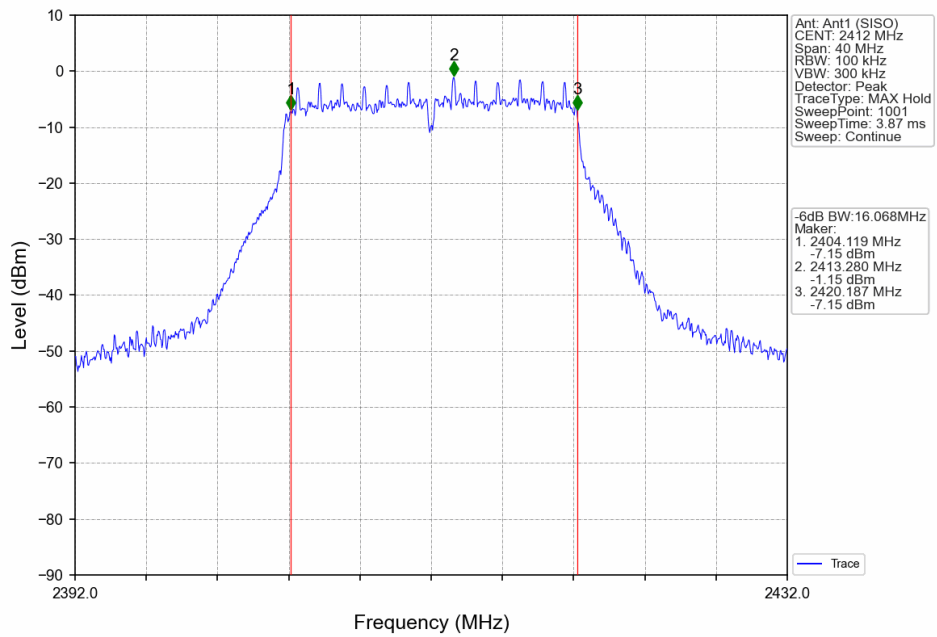
1.2.2 Test Graph



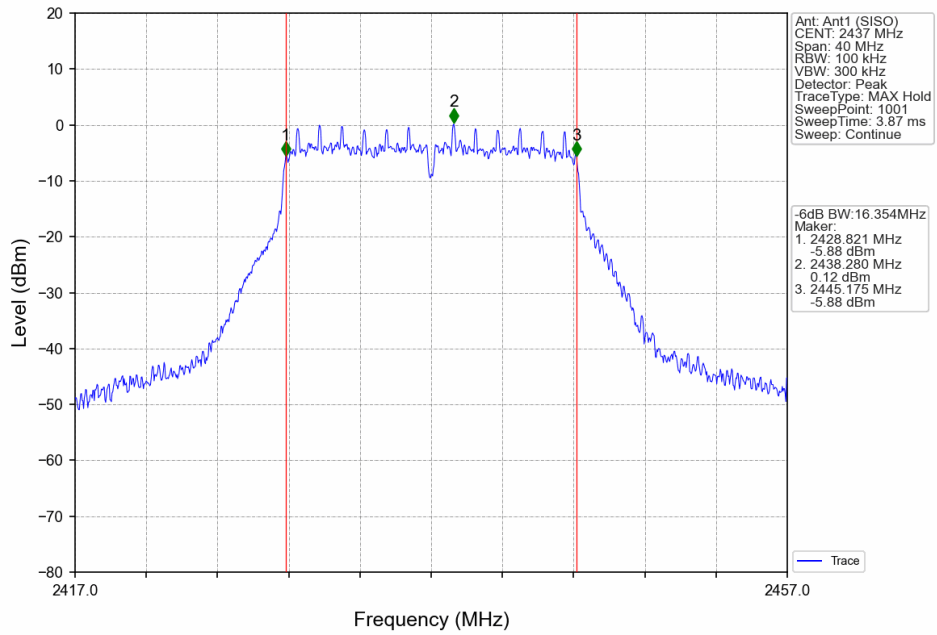
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



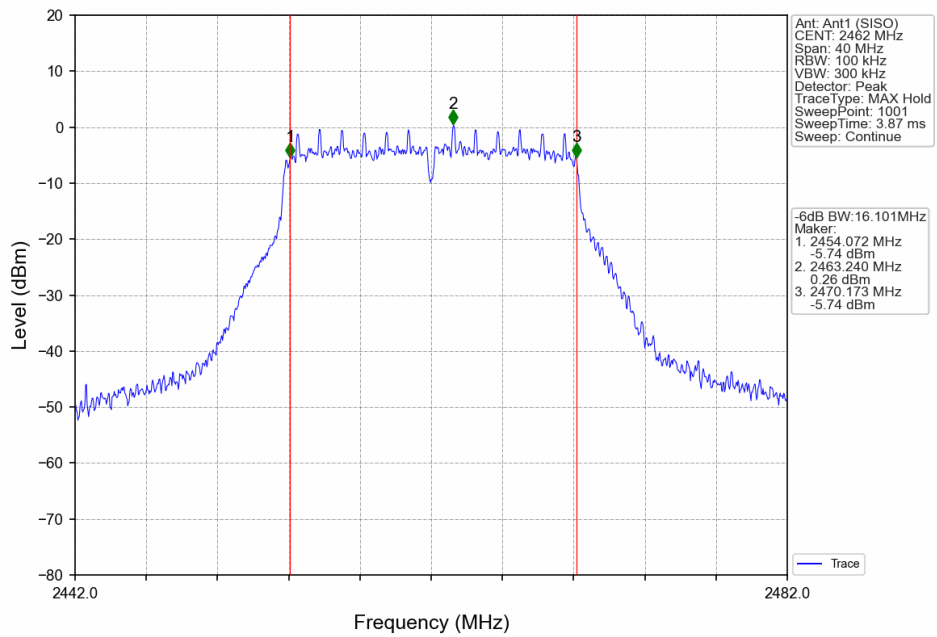
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



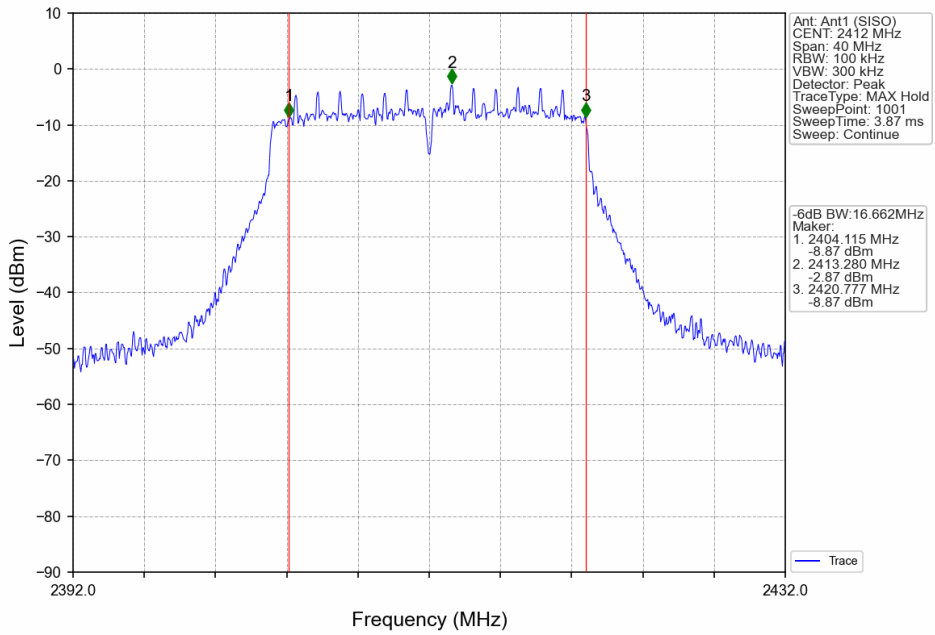
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



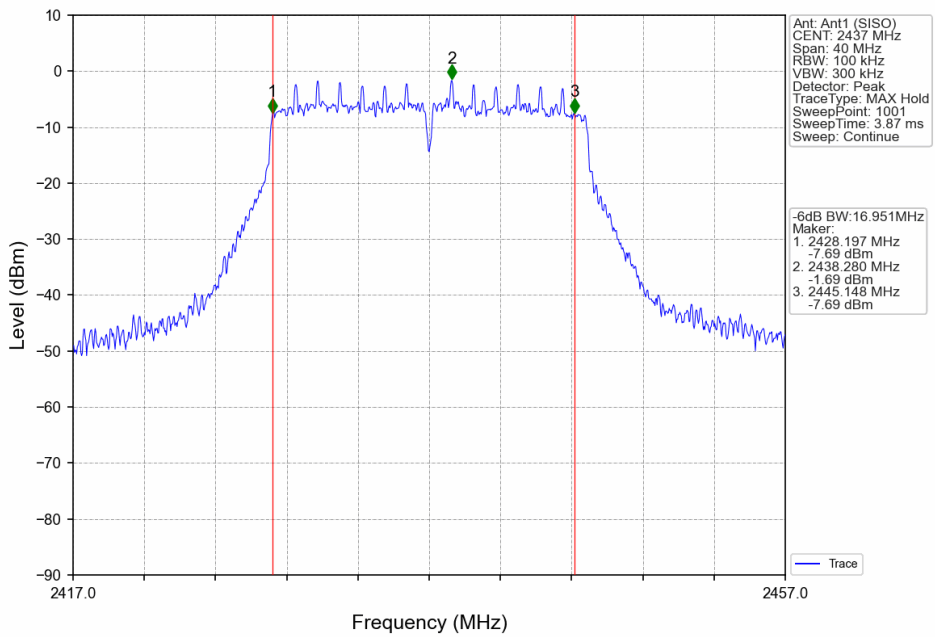
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

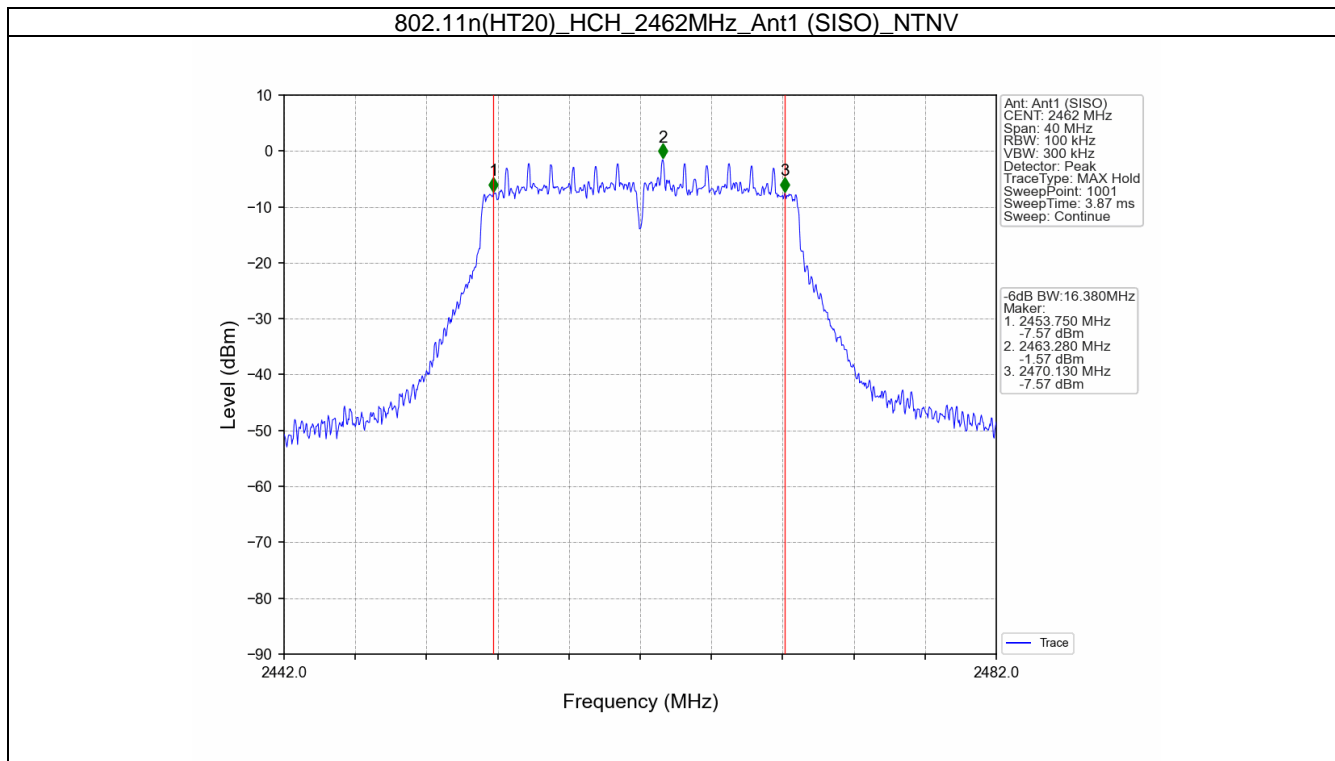


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





2. Maximum Conducted Output Power

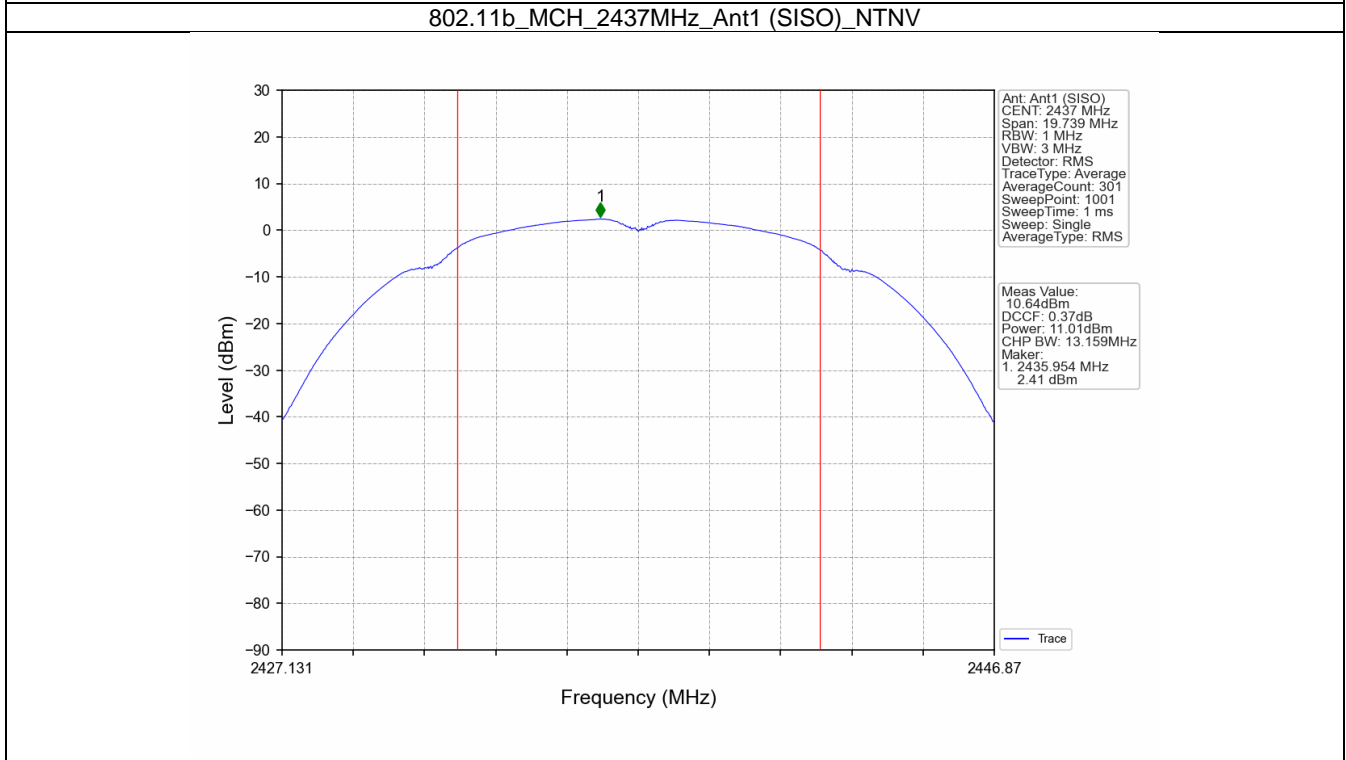
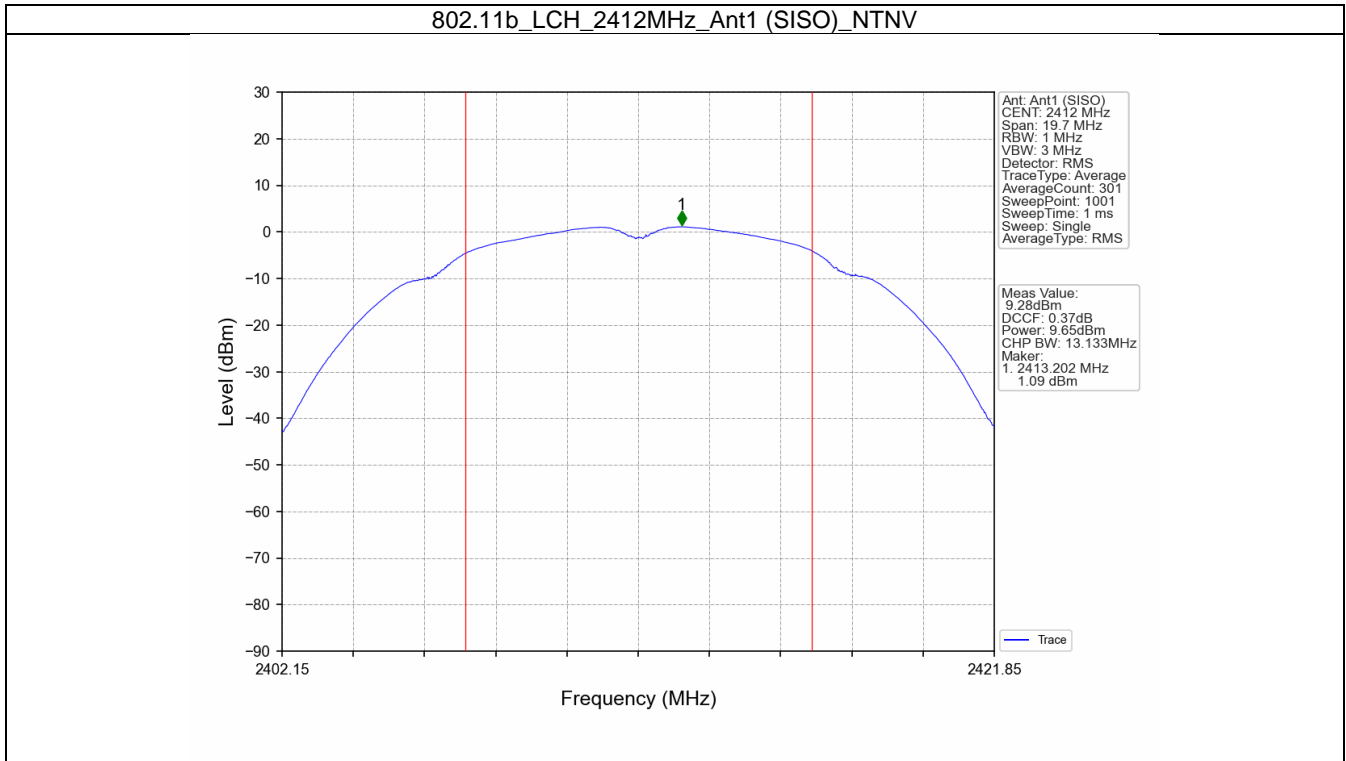
2.1 Power

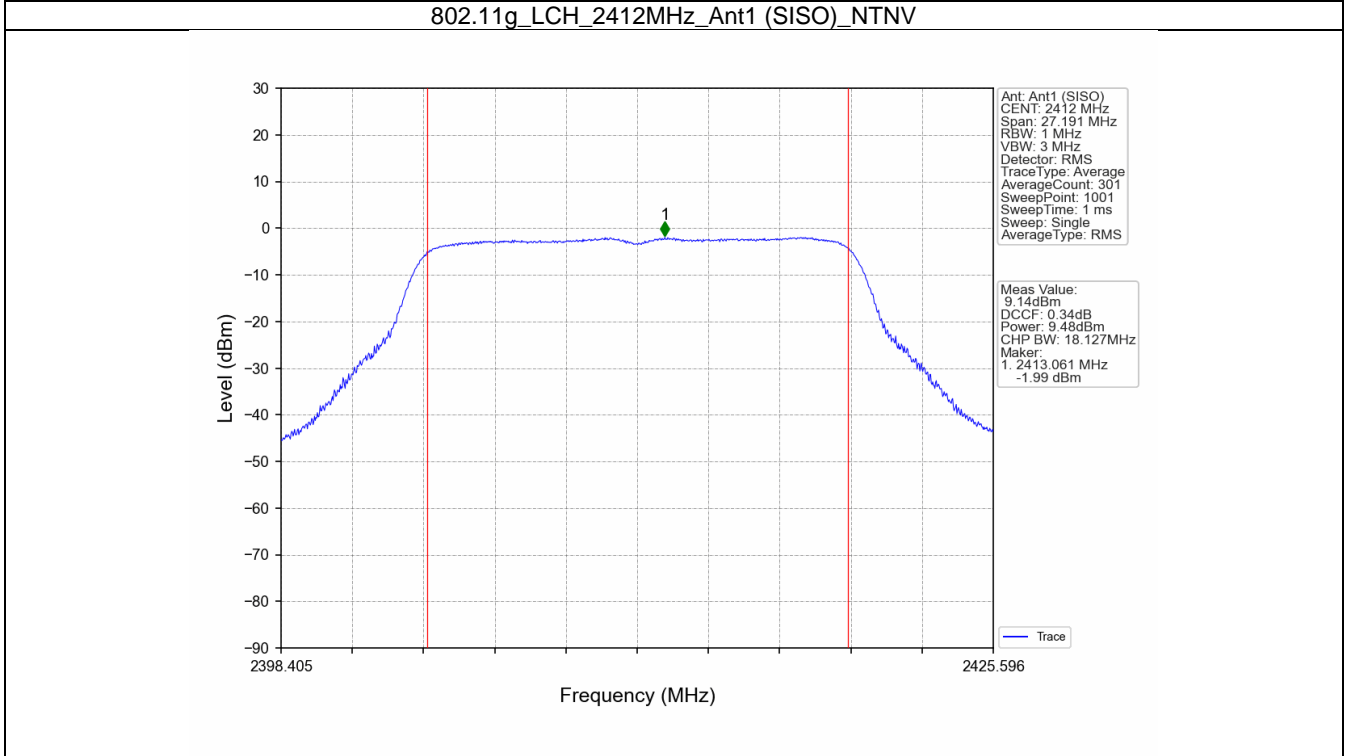
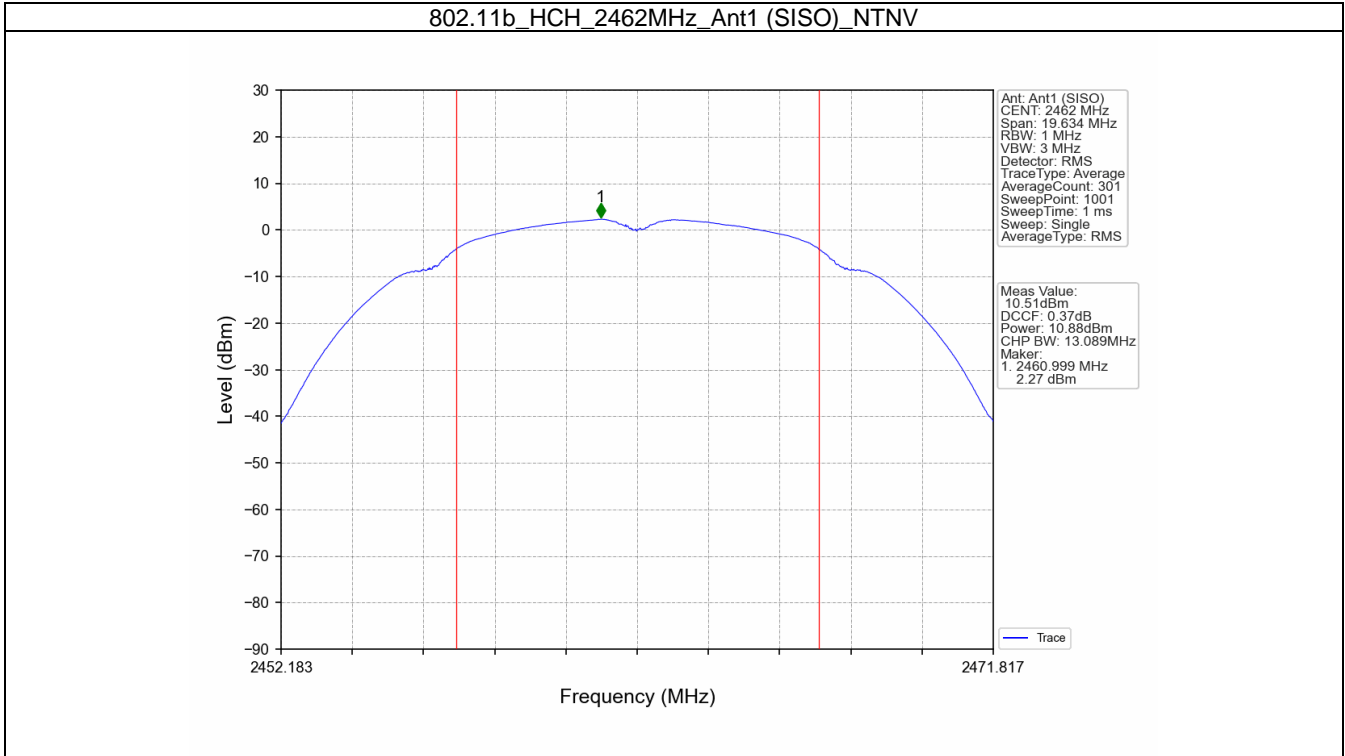
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	9.65	<=30	Pass
		2437	11.01	<=30	Pass
		2462	10.88	<=30	Pass
802.11g	SISO	2412	9.48	<=30	Pass
		2437	11.01	<=30	Pass
		2462	10.88	<=30	Pass
802.11n (HT20)	SISO	2412	7.69	<=30	Pass
		2437	9.03	<=30	Pass
		2462	8.95	<=30	Pass

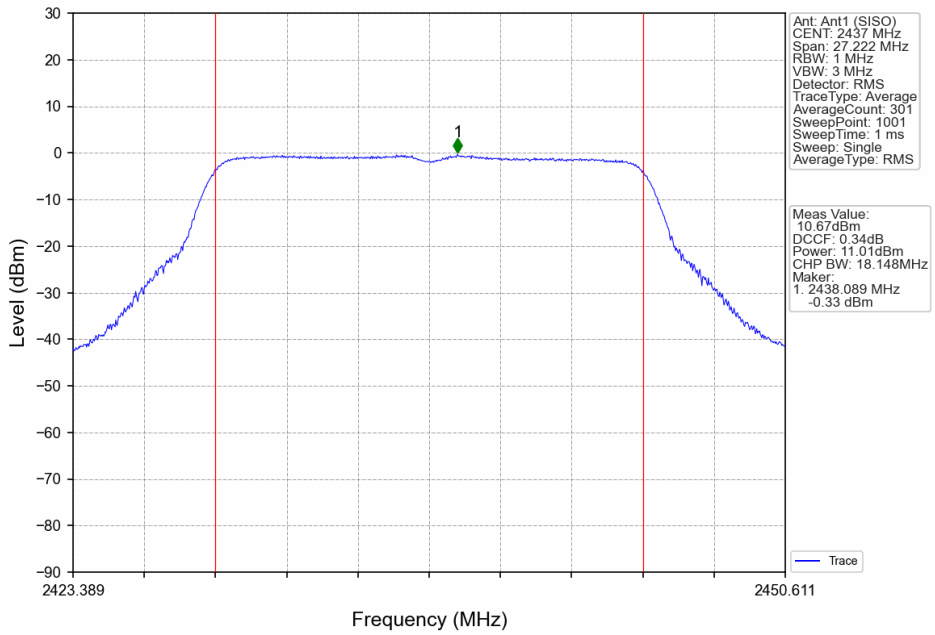
Note1: Antenna Gain: Ant1: 4.16dBi;

2.1.2 Test Graph

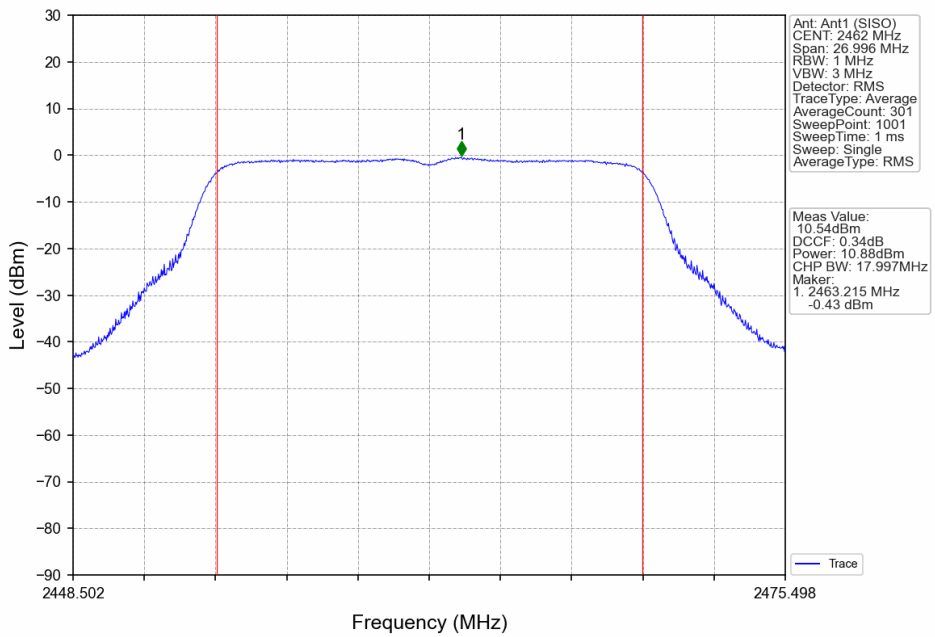




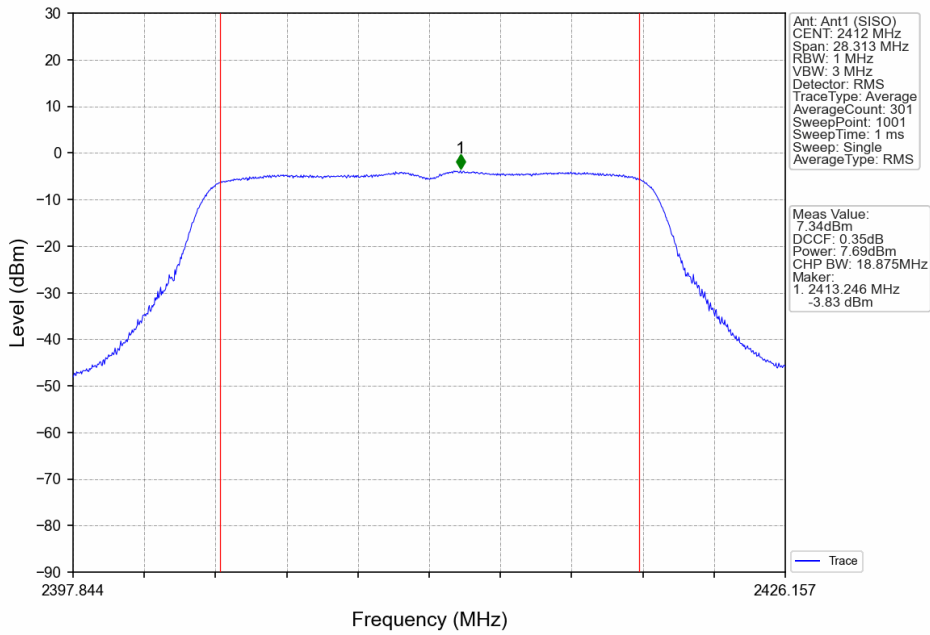
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



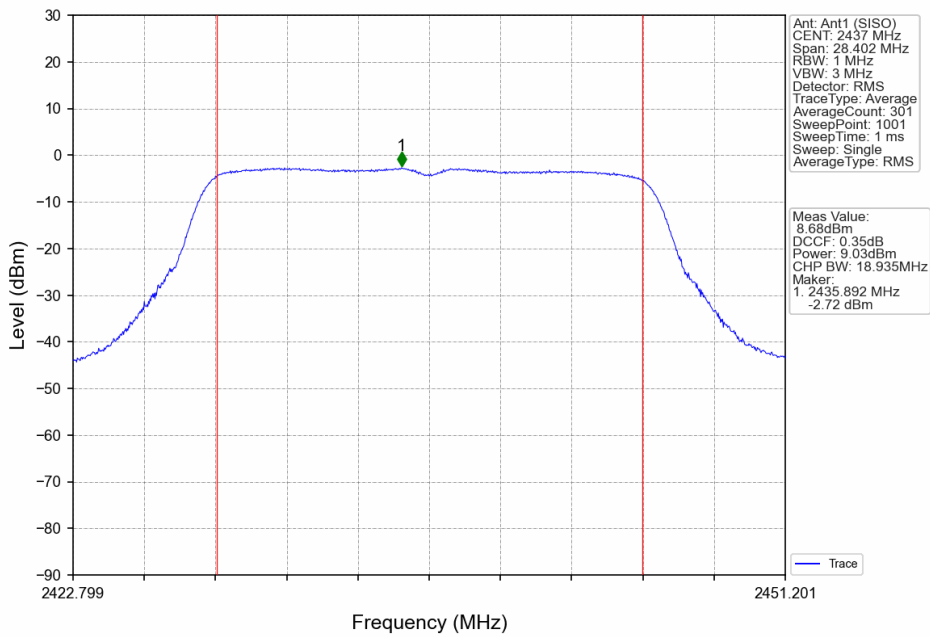
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

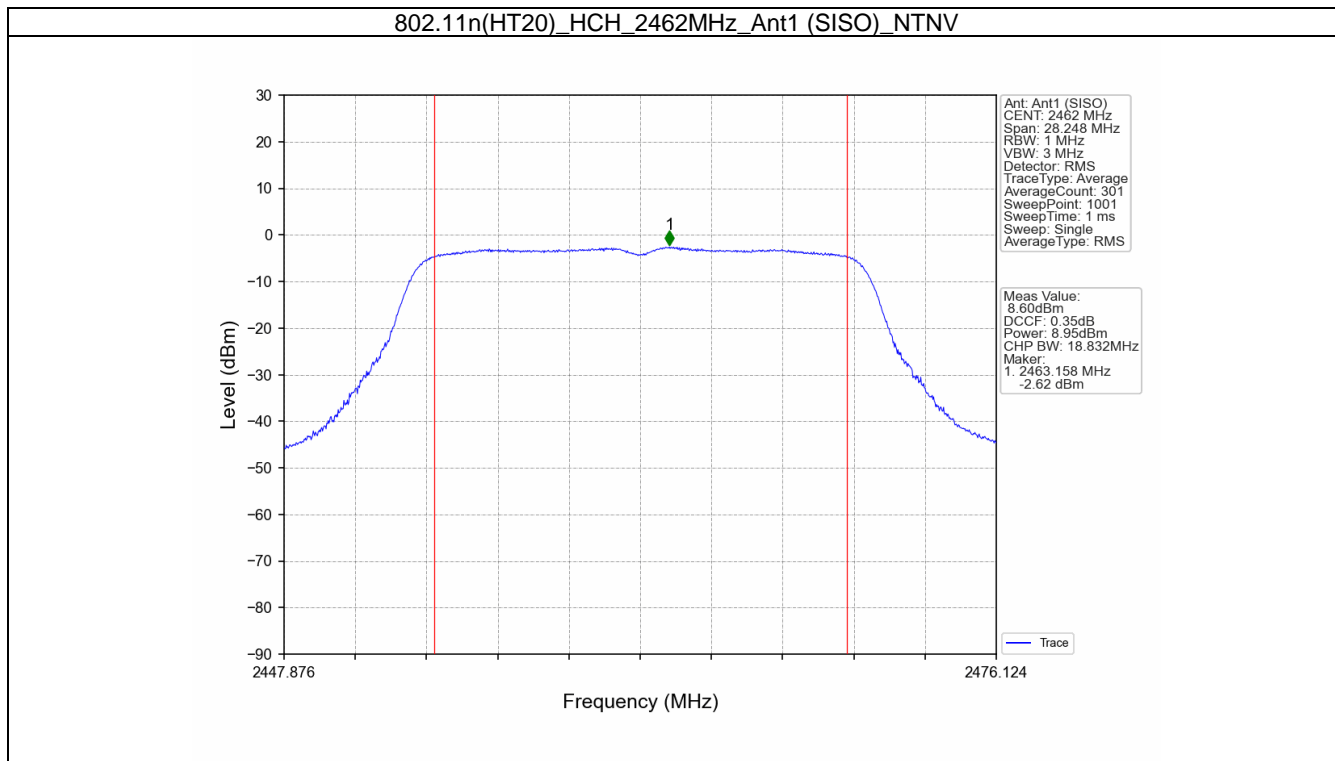


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





2.2 EIRP

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.81	<=36.02	Pass
		2437	15.17	<=36.02	Pass
		2462	15.04	<=36.02	Pass
802.11g	SISO	2412	13.64	<=36.02	Pass
		2437	15.17	<=36.02	Pass
		2462	15.04	<=36.02	Pass
802.11n (HT20)	SISO	2412	11.85	<=36.02	Pass
		2437	13.19	<=36.02	Pass
		2462	13.11	<=36.02	Pass

Note1: Antenna Gain: Ant1: 4.16dBi;
Note2: E.I.R.P = Measured Power + Antenna Gain

3. Maximum Power Spectral Density

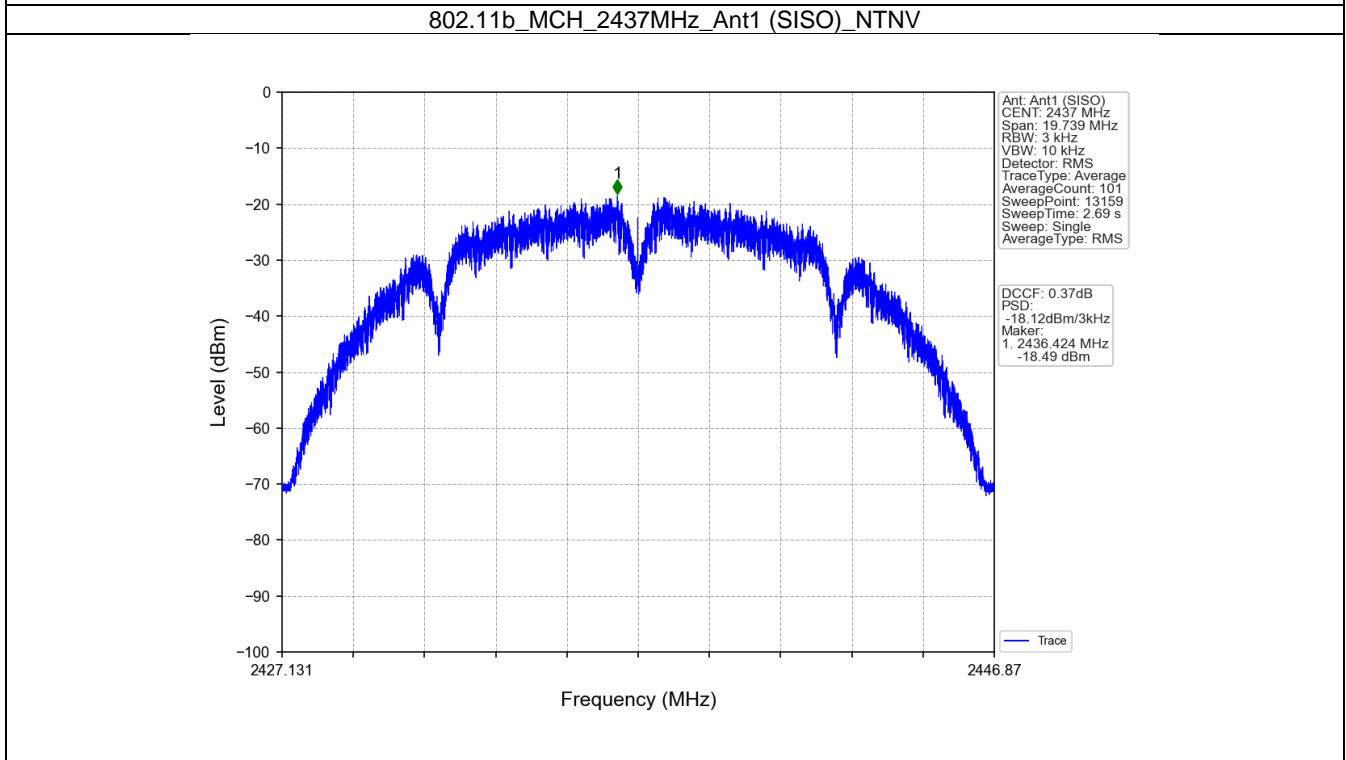
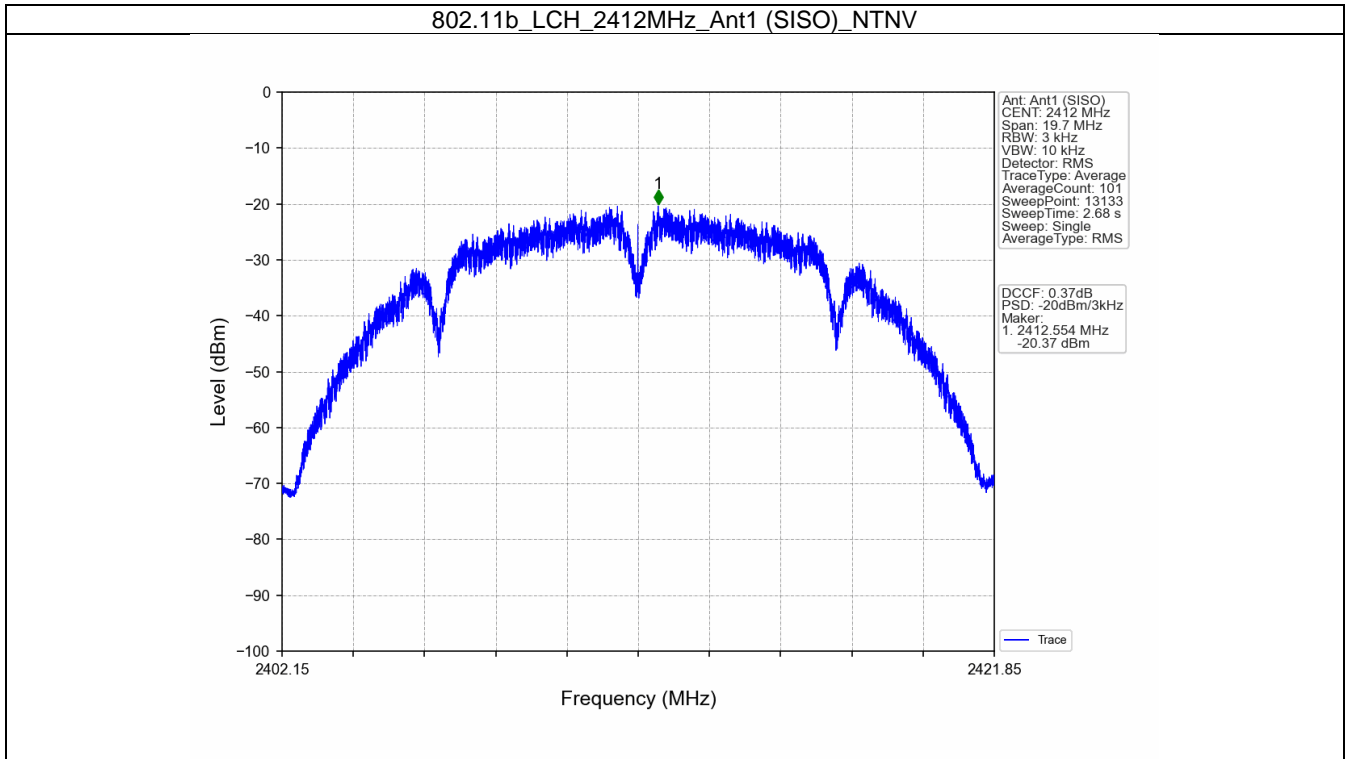
3.1 PSD

3.1.1 Test Result

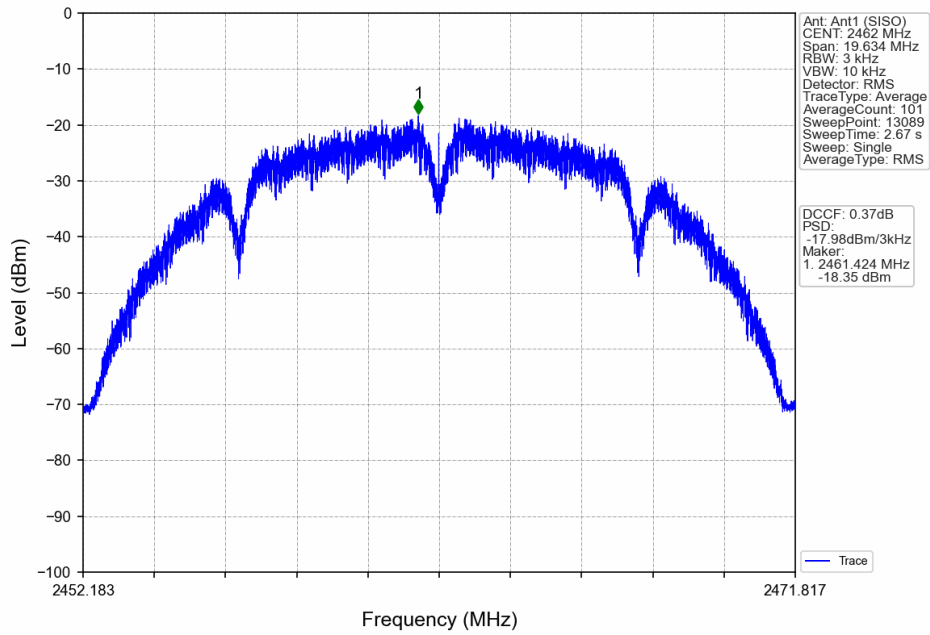
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-20.00	<=8	Pass
		2437	-18.12	<=8	Pass
		2462	-17.98	<=8	Pass
802.11g	SISO	2412	-20.29	<=8	Pass
		2437	-18.71	<=8	Pass
		2462	-18.68	<=8	Pass
802.11n (HT20)	SISO	2412	-22.02	<=8	Pass
		2437	-20.56	<=8	Pass
		2462	-20.72	<=8	Pass

Note1: Antenna Gain: Ant1: 4.16dBi;

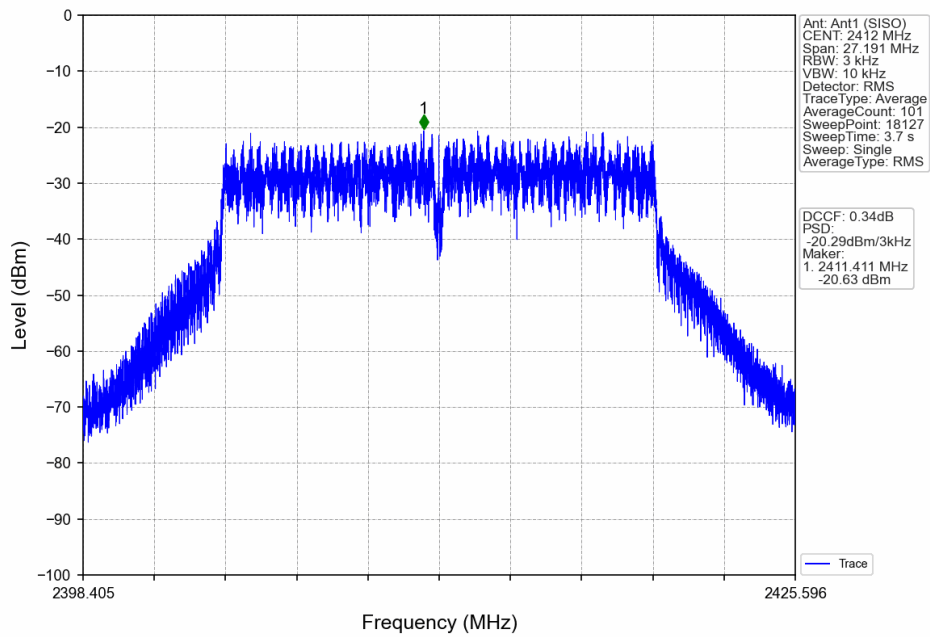
3.1.2 Test Graph



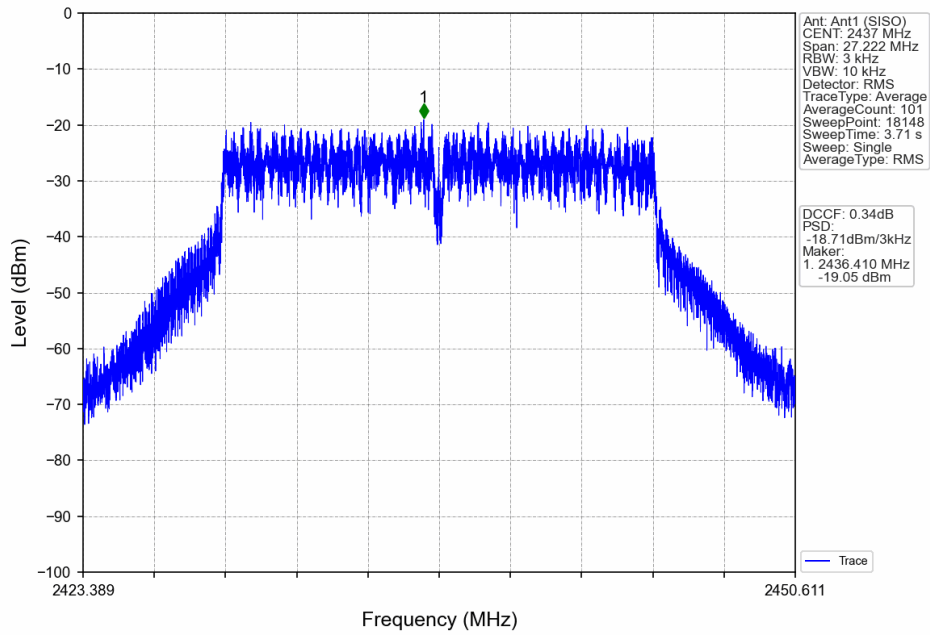
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



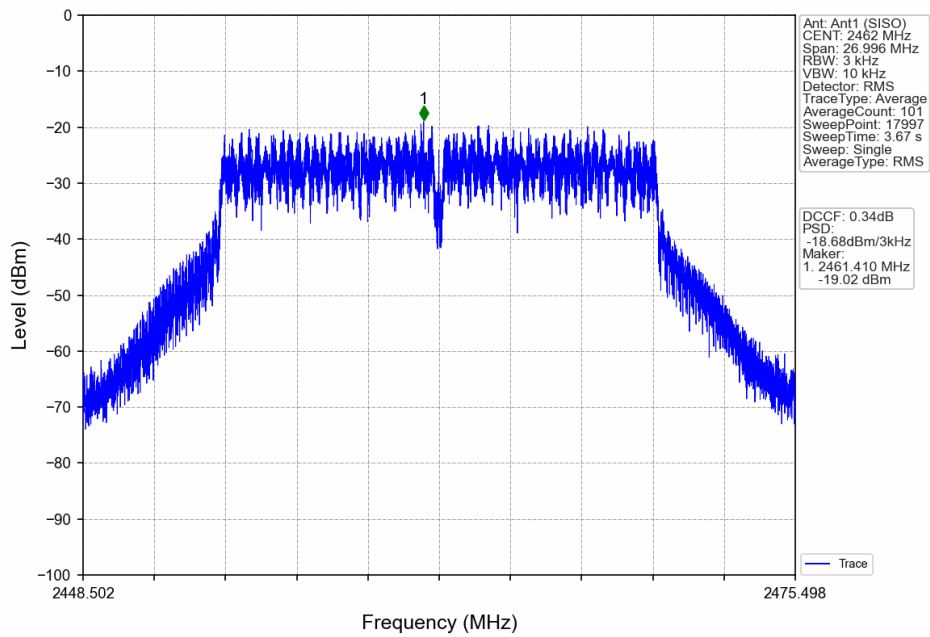
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



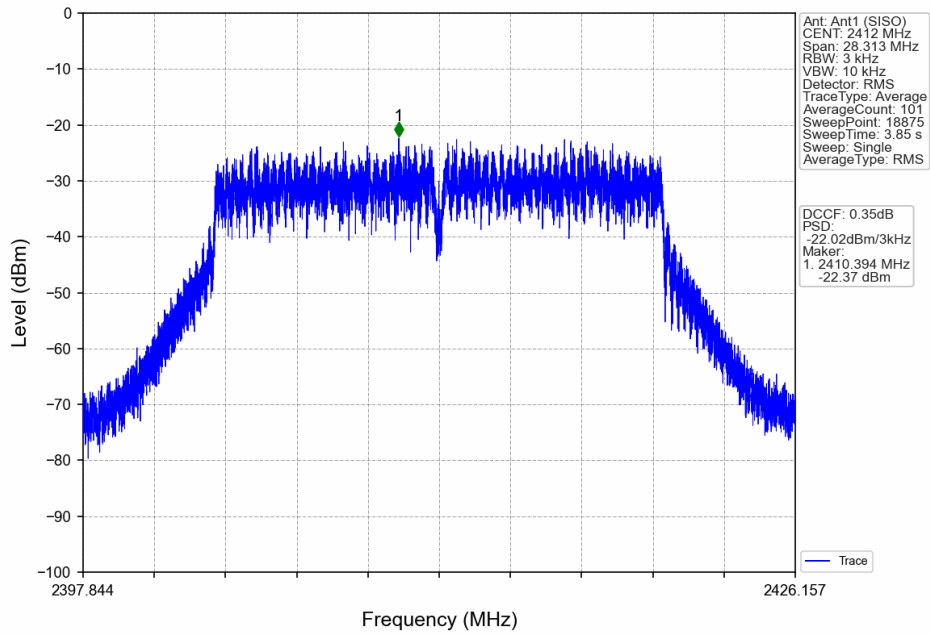
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



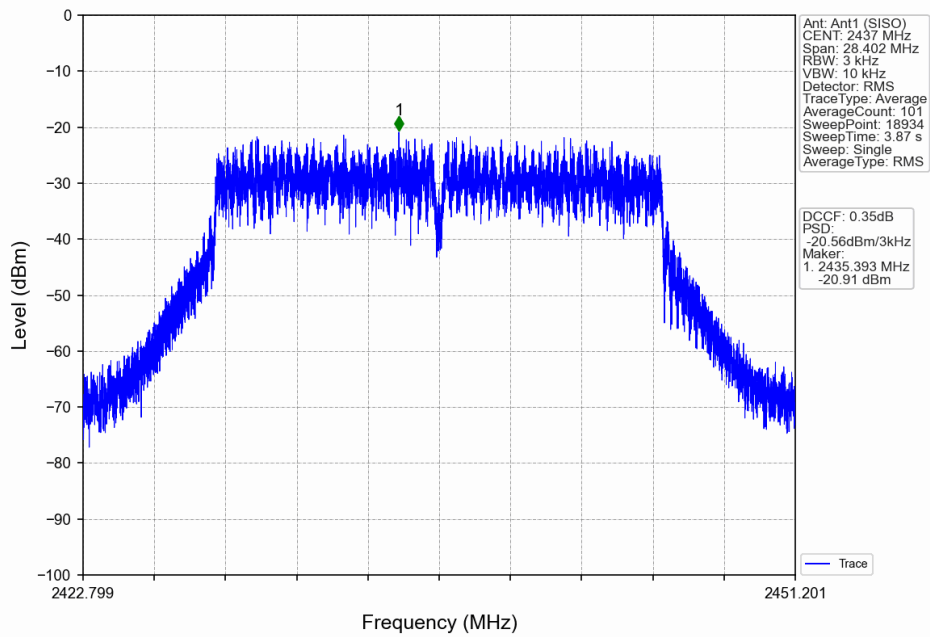
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

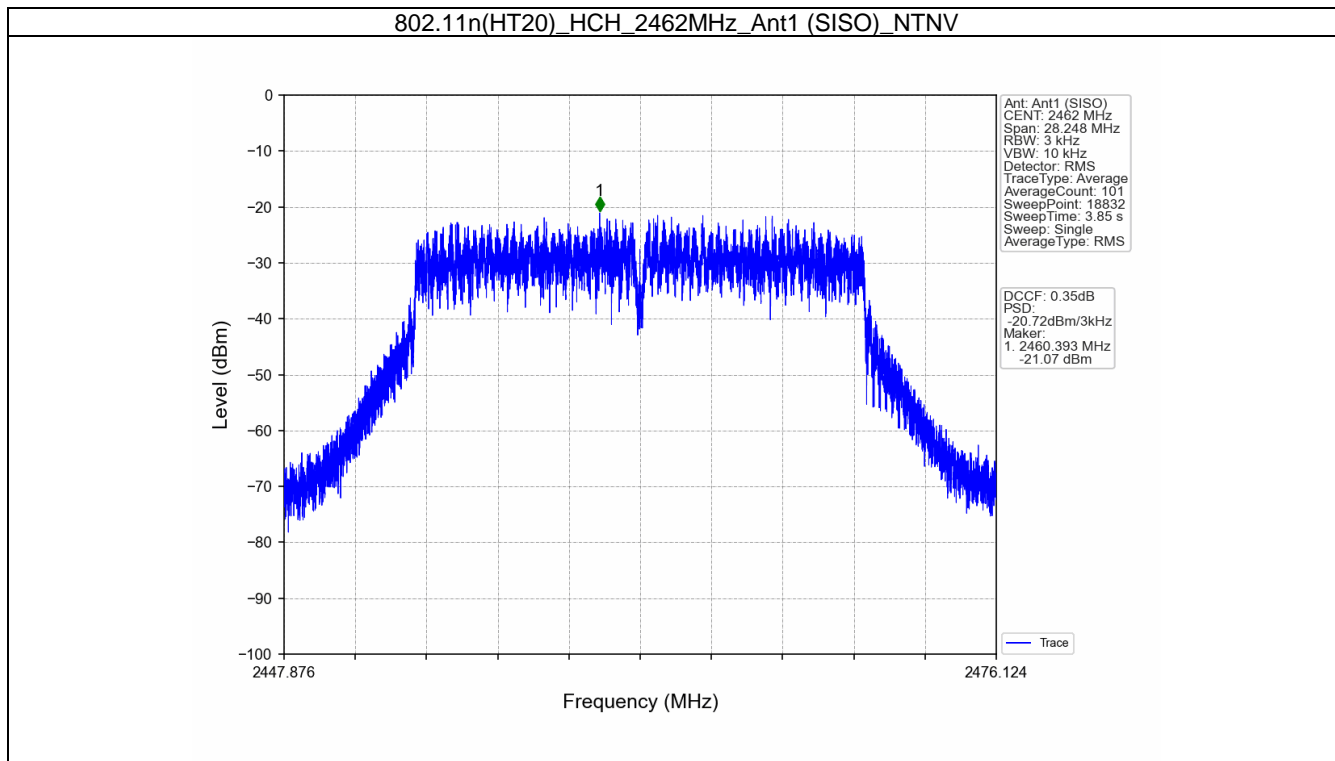


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





4. Unwanted Emissions In Non-restricted Frequency Bands

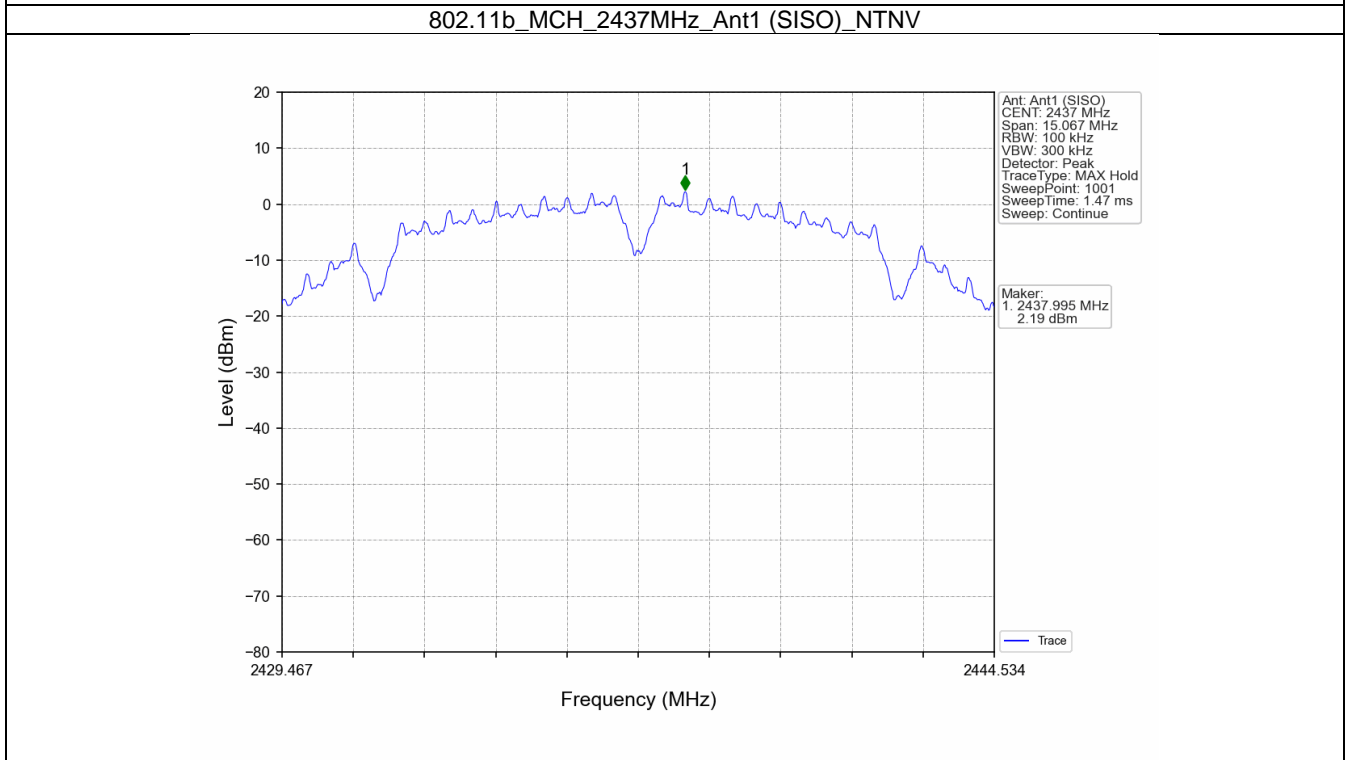
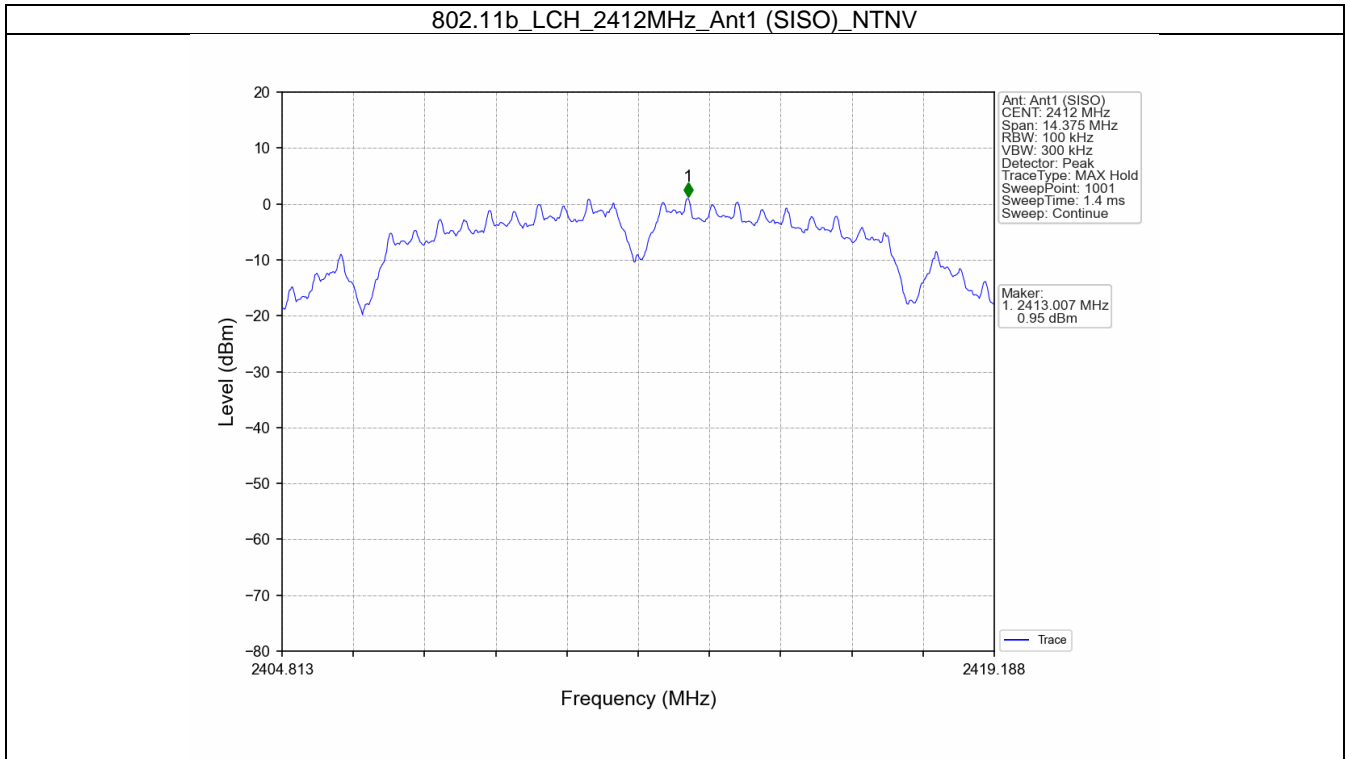
4.1 Ref

4.1.1 Test Result

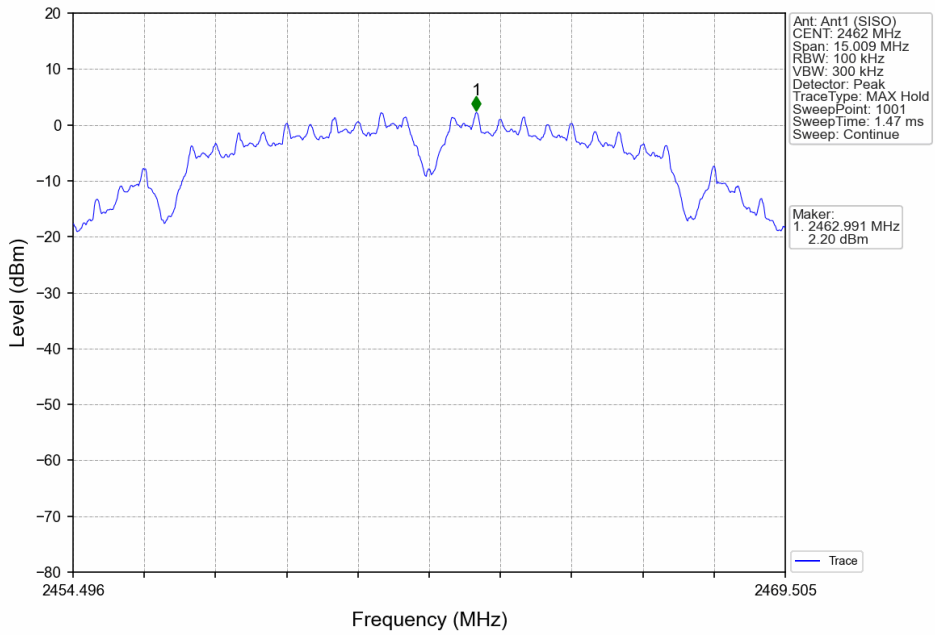
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	0.95
		2437	1	2.19
		2462	1	2.20
802.11g	SISO	2412	1	-1.19
		2437	1	0.37
		2462	1	0.28
802.11n (HT20)	SISO	2412	1	-2.85
		2437	1	-1.71
		2462	1	-1.57

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.

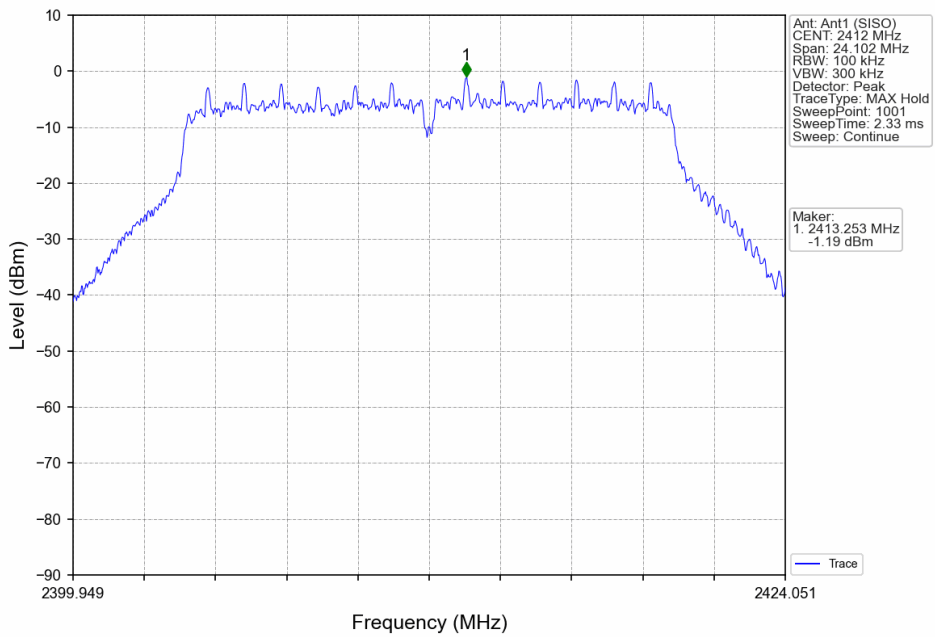
4.1.2 Test Graph



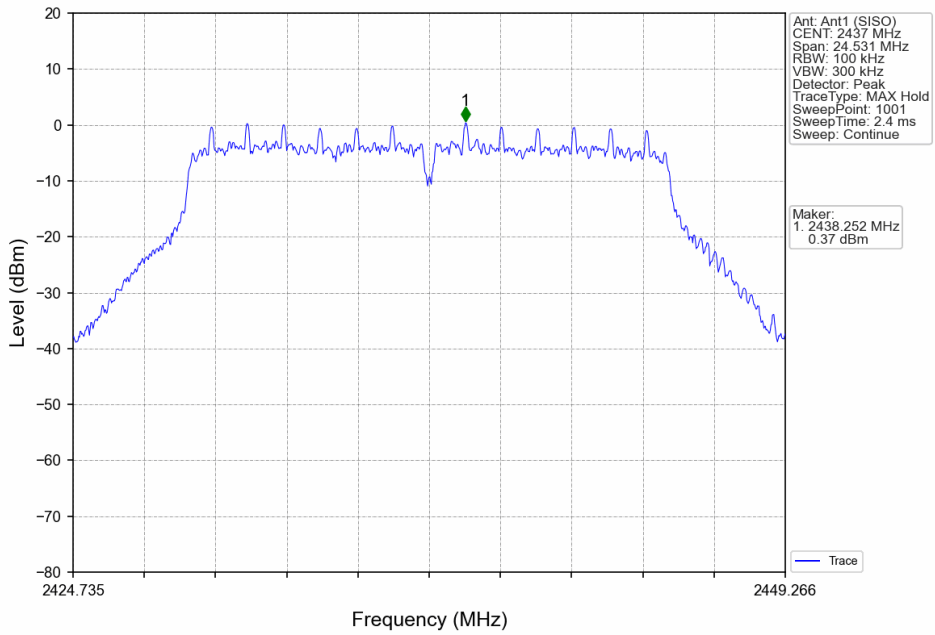
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



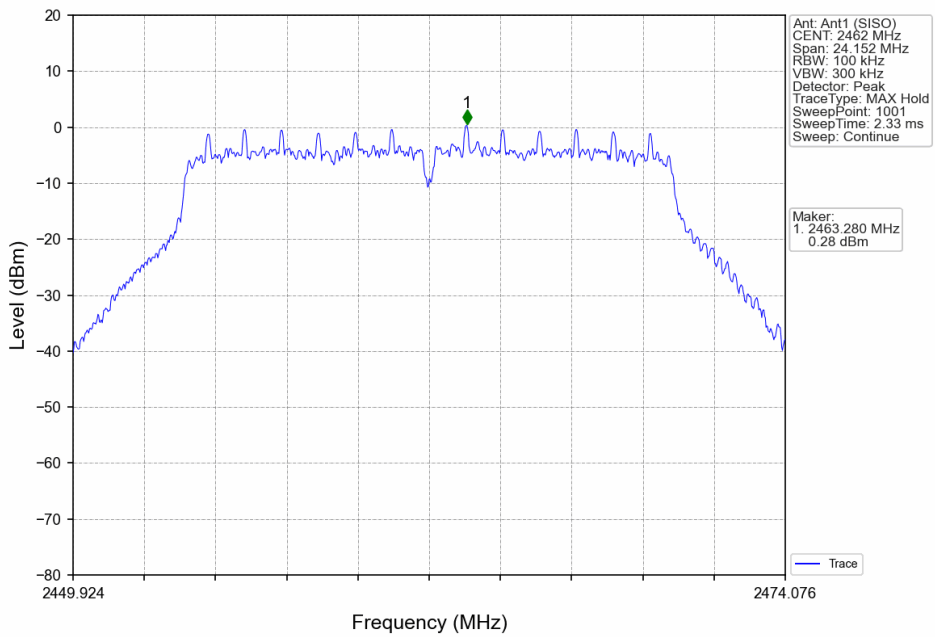
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



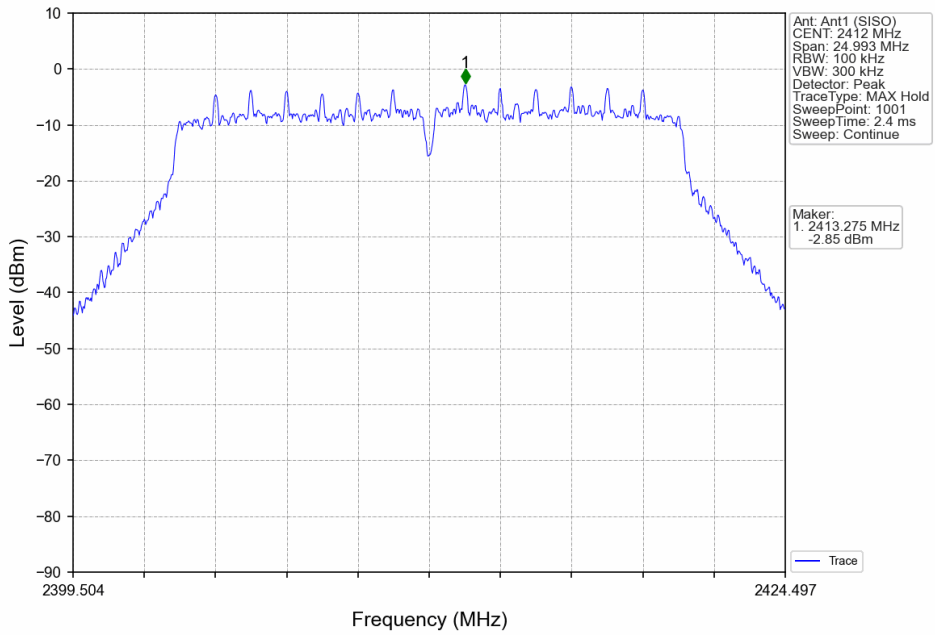
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



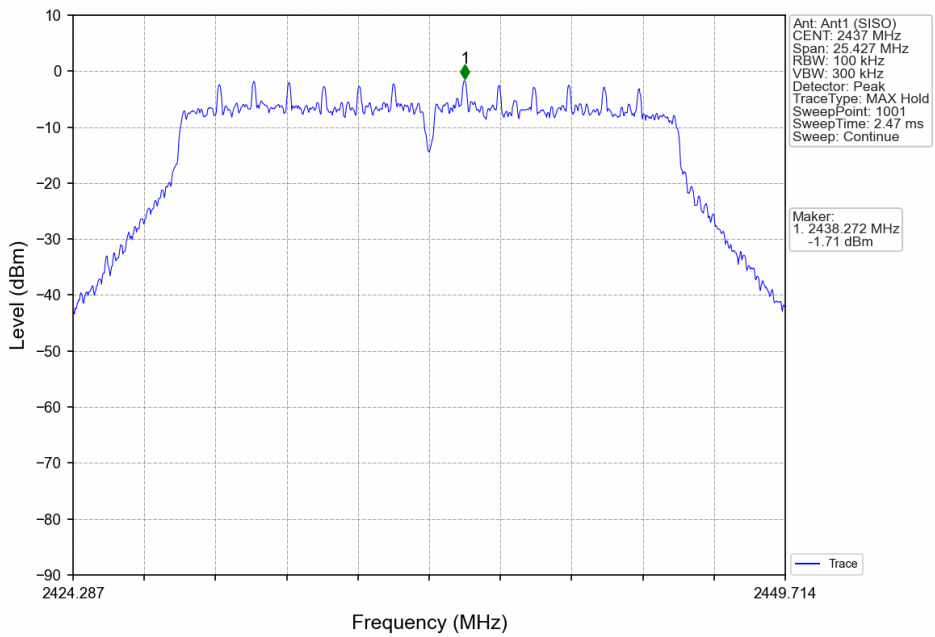
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

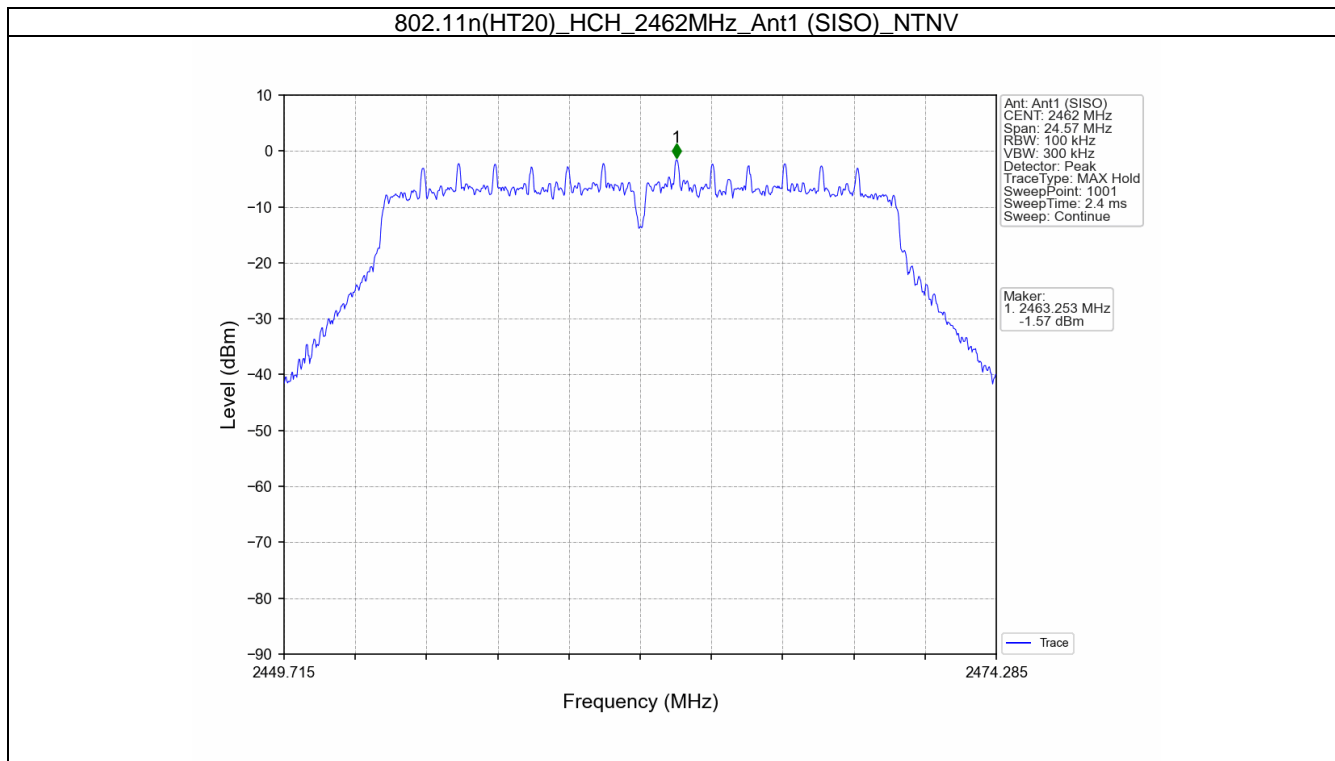


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



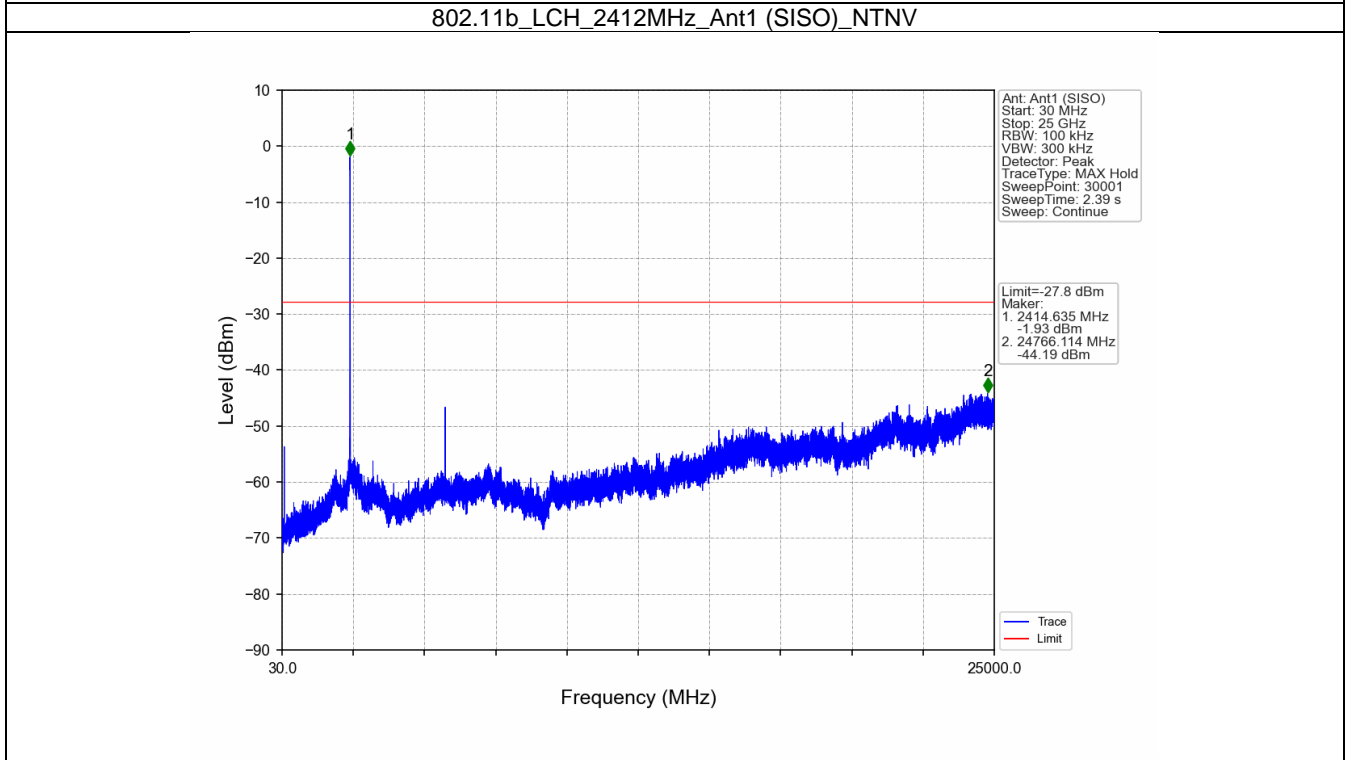
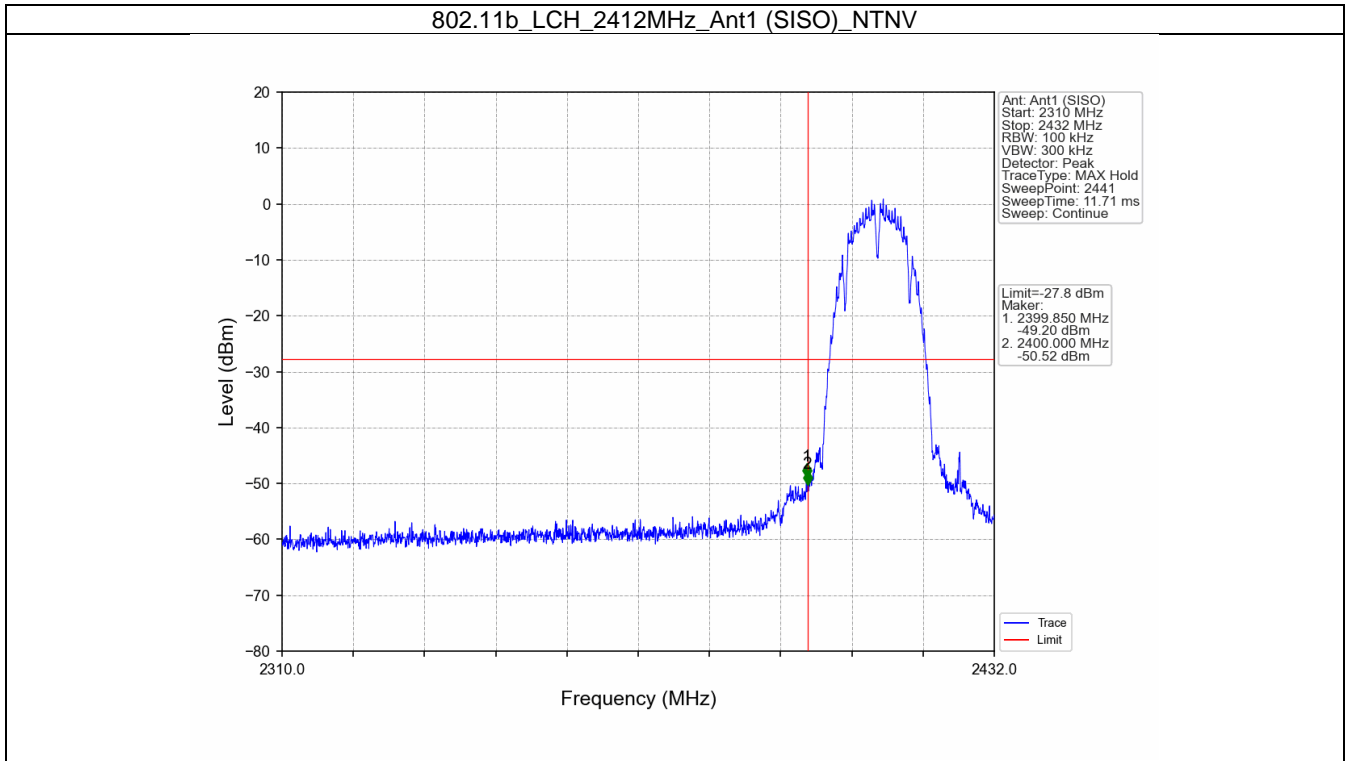


4.2 CSE

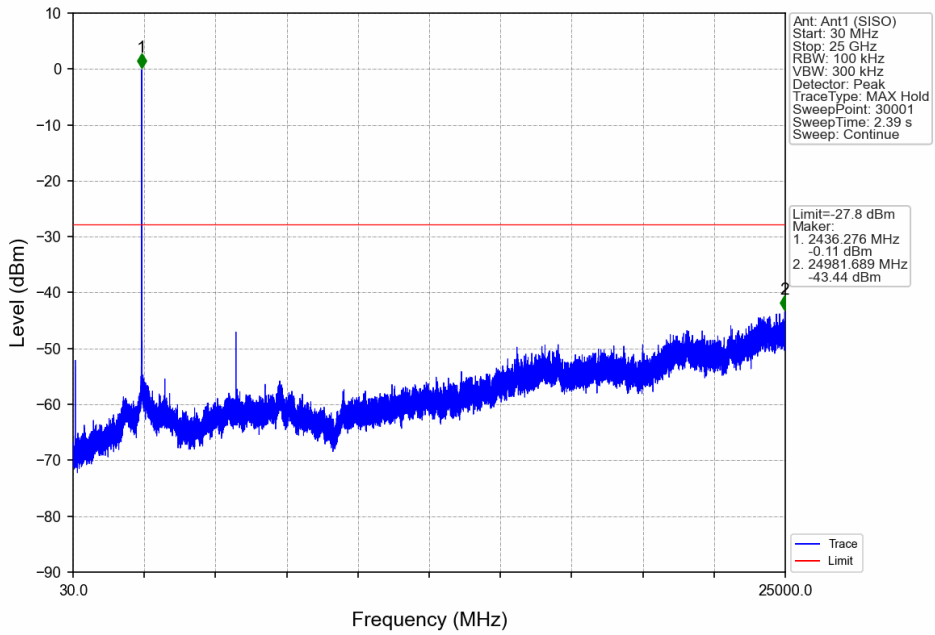
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.20	-27.80	Pass
		2437	1	2.20	-27.80	Pass
		2462	1	2.20	-27.80	Pass
802.11g	SISO	2412	1	0.37	-29.63	Pass
		2437	1	0.37	-29.63	Pass
		2462	1	0.37	-29.63	Pass
802.11n (HT20)	SISO	2412	1	-1.57	-31.57	Pass
		2437	1	-1.57	-31.57	Pass
		2462	1	-1.57	-31.57	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.						

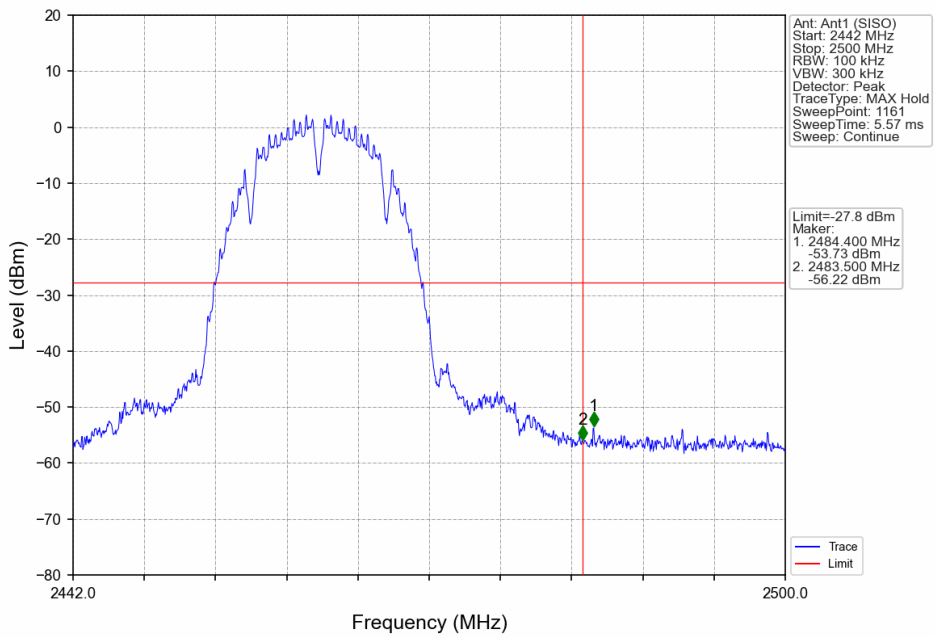
4.2.2 Test Graph



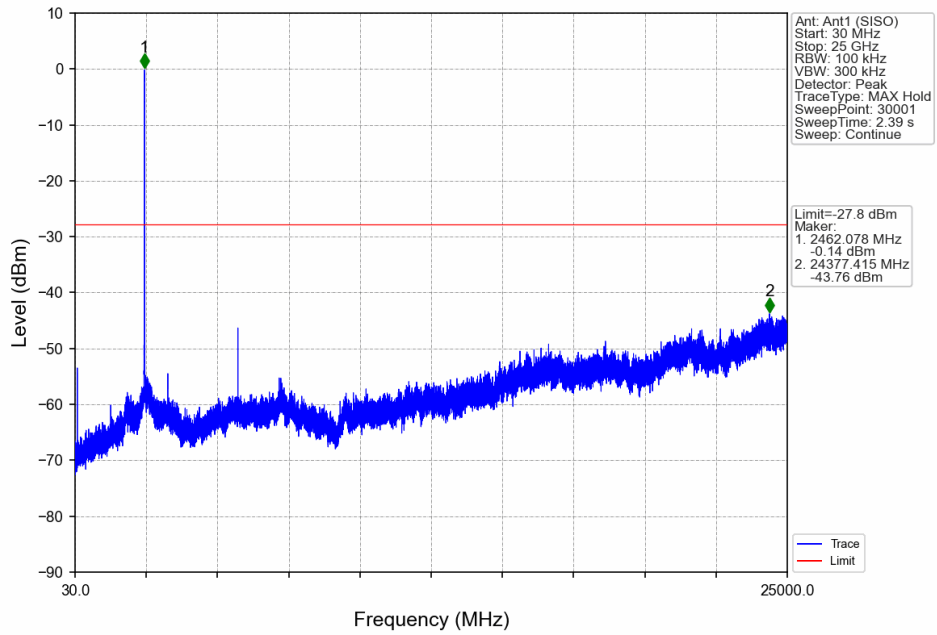
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



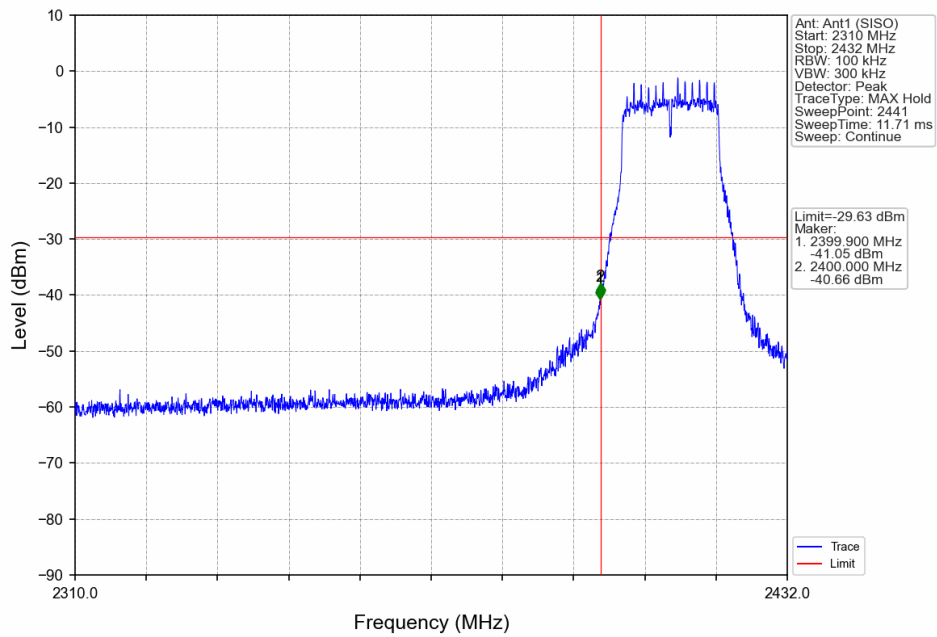
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



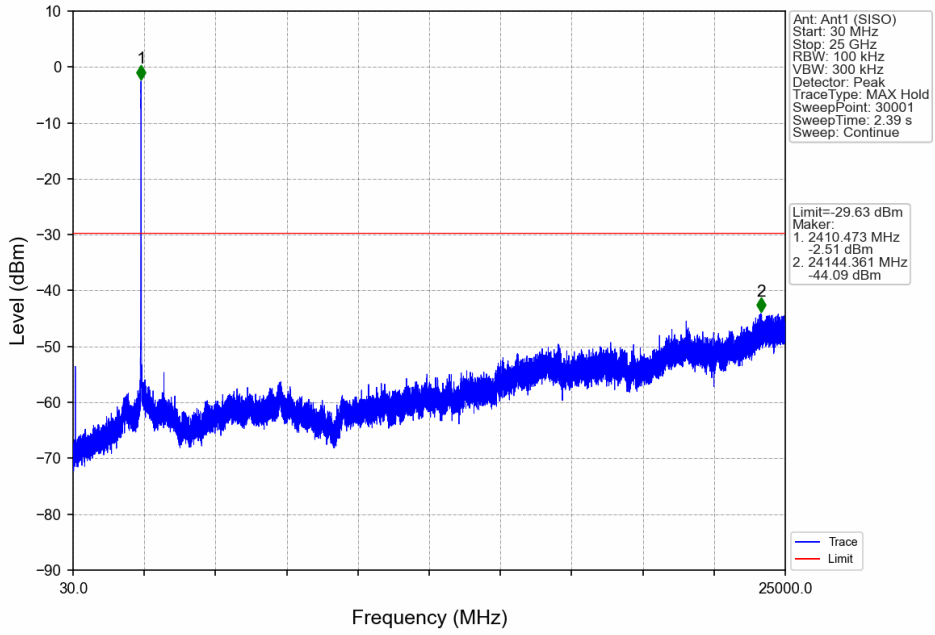
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



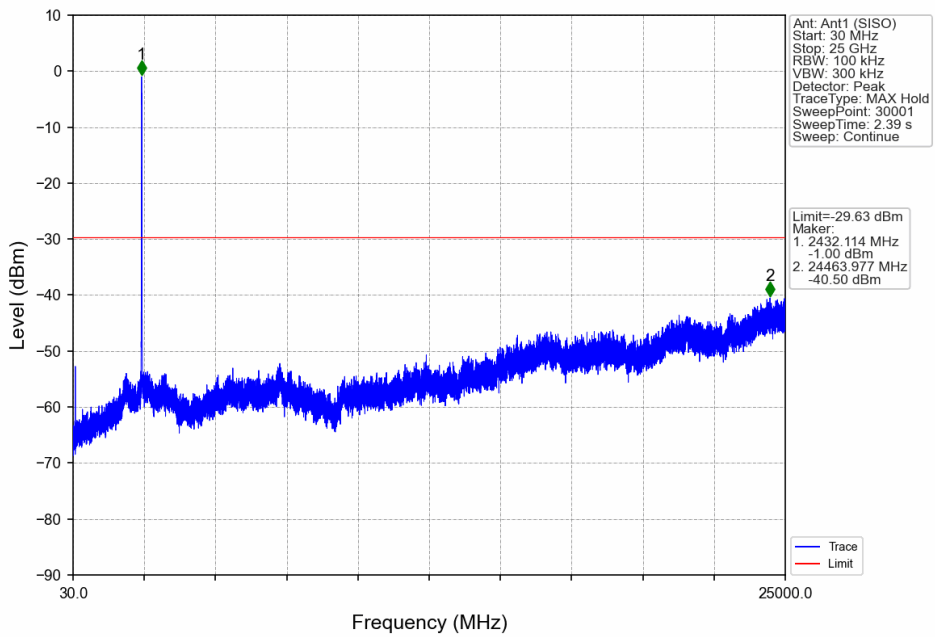
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



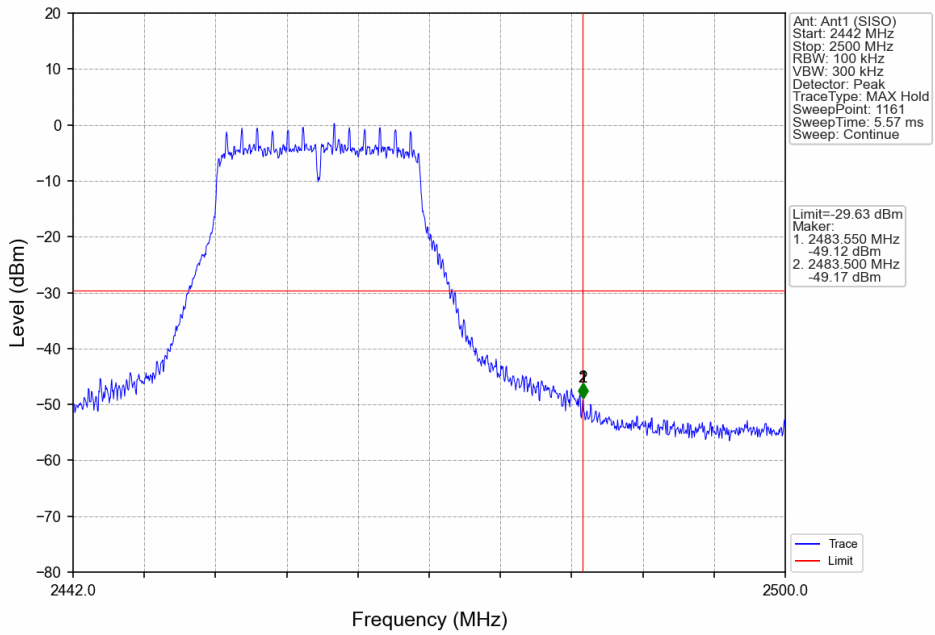
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



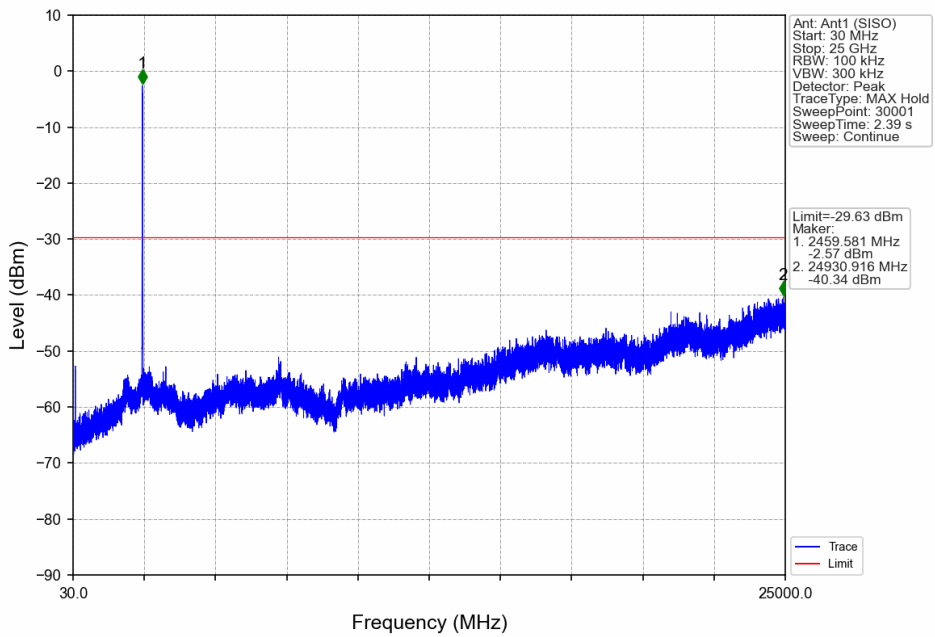
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



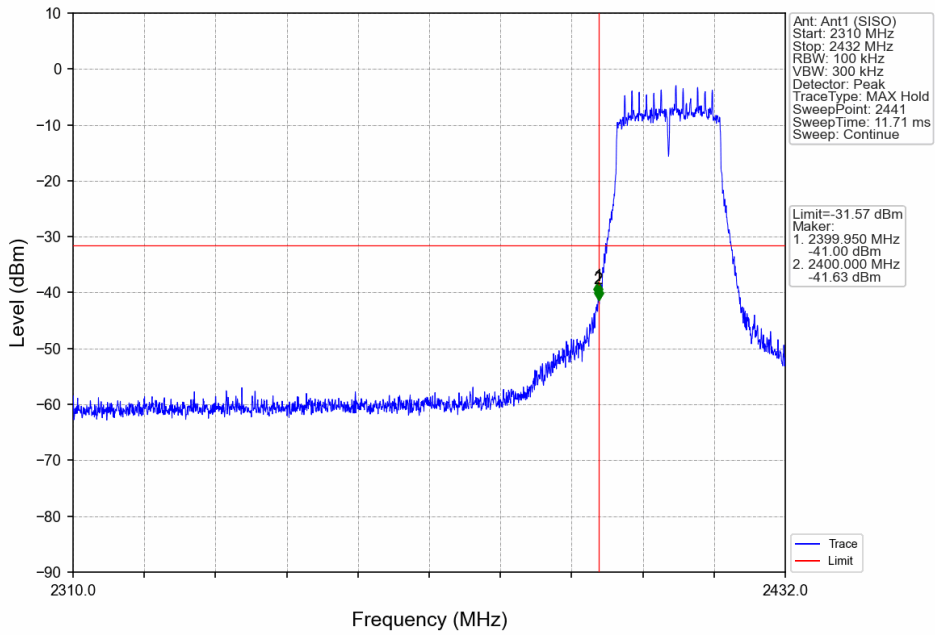
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



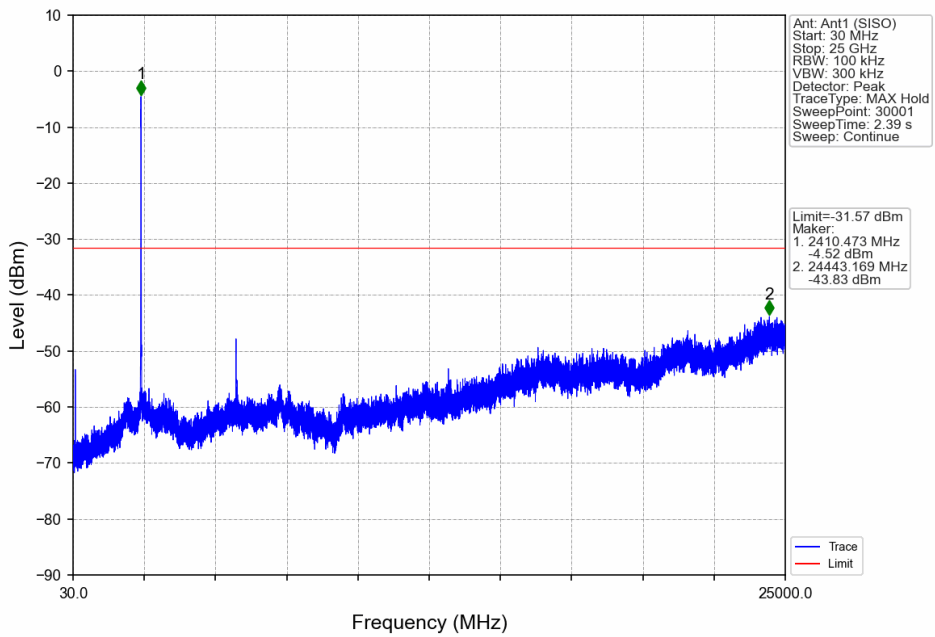
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



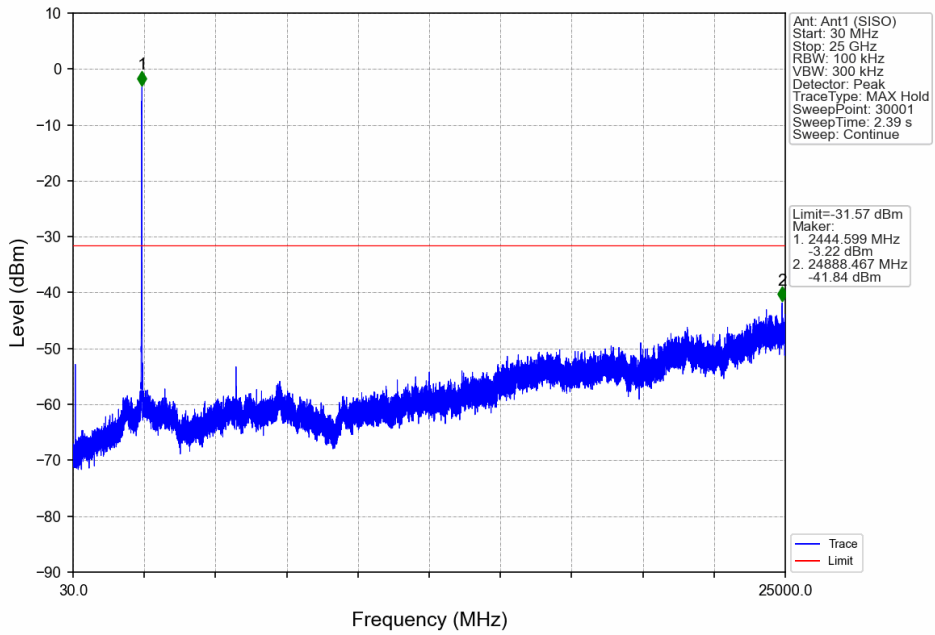
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

