

Appendix A for KSEM210800130601

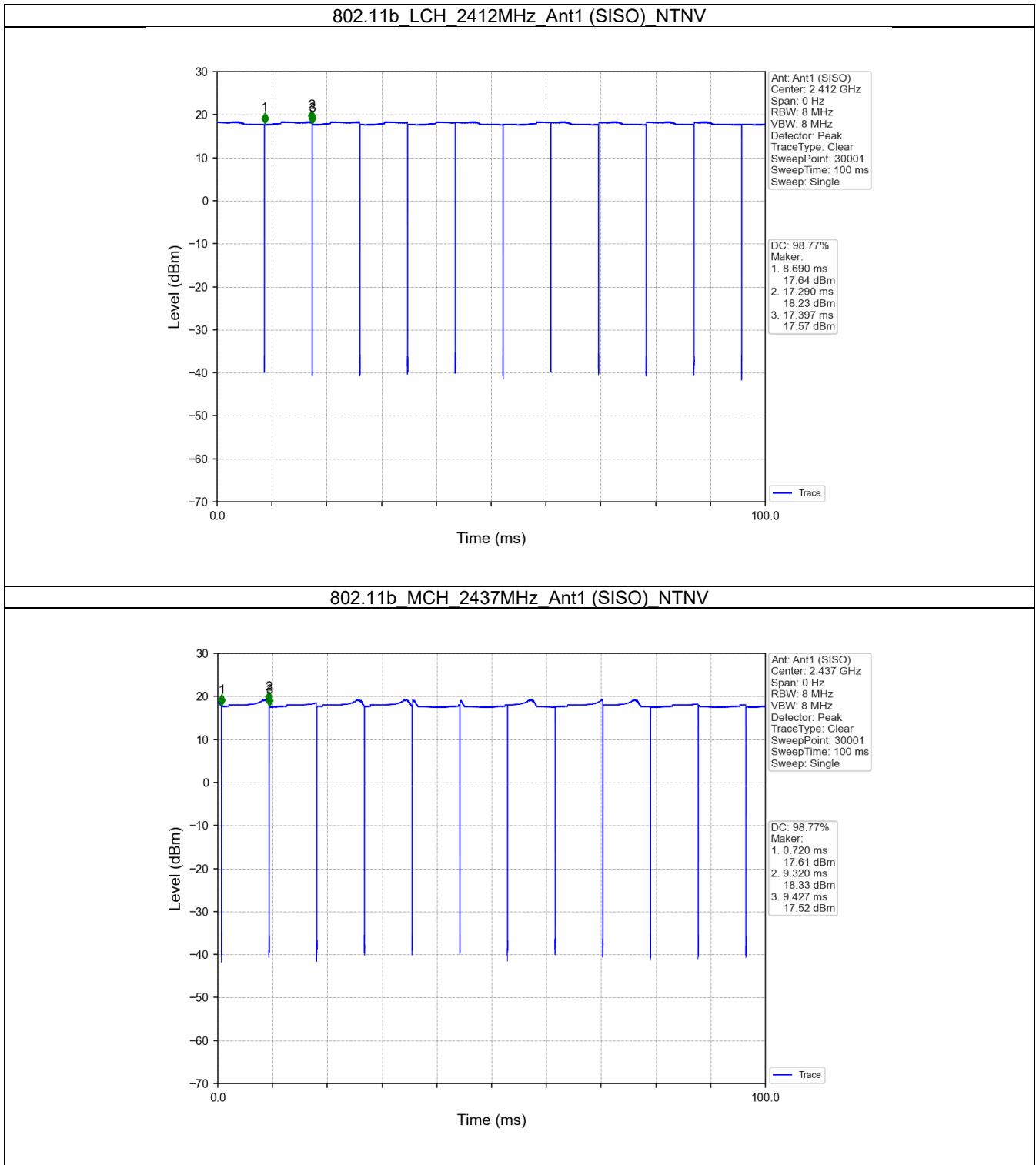
1. Duty Cycle

1.1 Ant1

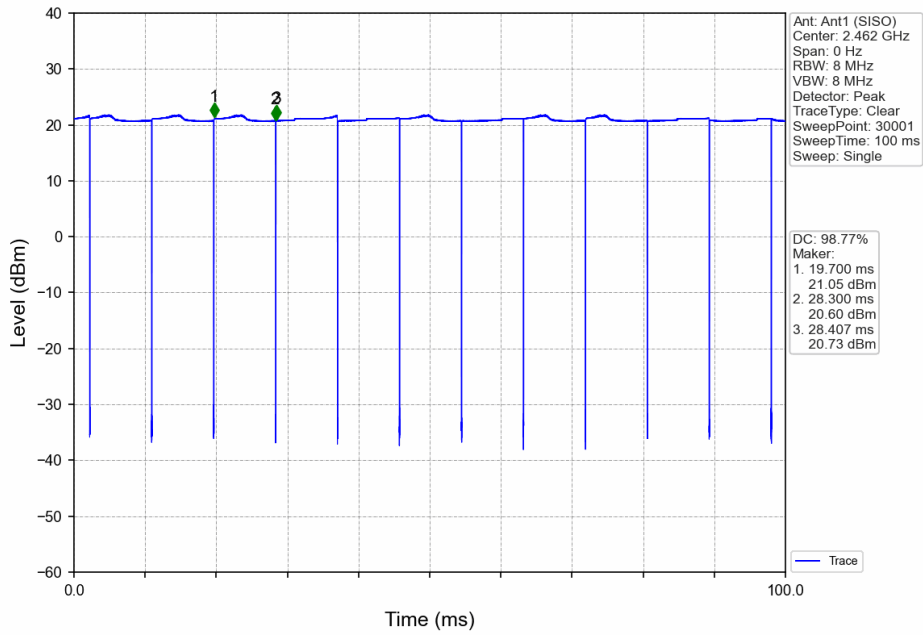
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.600	8.707	98.77	0.05	0.00
		2437	8.600	8.707	98.77	0.05	0.00
		2462	8.600	8.707	98.77	0.05	0.00
802.11g	SISO	2412	1.428	1.534	93.09	0.31	0.00
		2437	1.428	1.534	93.09	0.31	0.03
		2462	1.423	1.535	92.70	0.33	0.03
802.11n (HT20)	SISO	2412	1.330	1.442	92.23	0.35	0.07
		2437	1.330	1.442	92.23	0.35	0.00
		2462	1.331	1.443	92.24	0.35	0.07

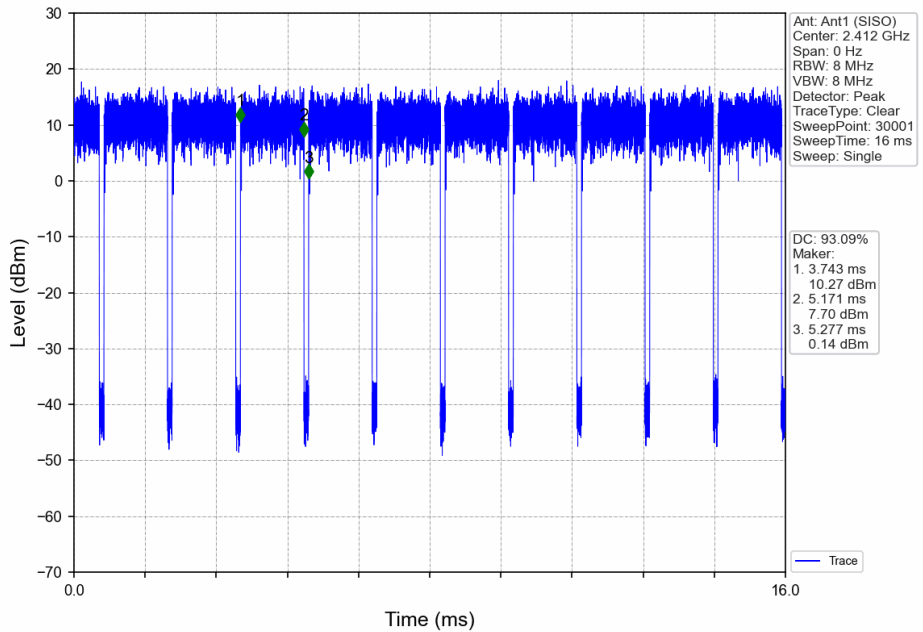
1.1.2 Test Graph



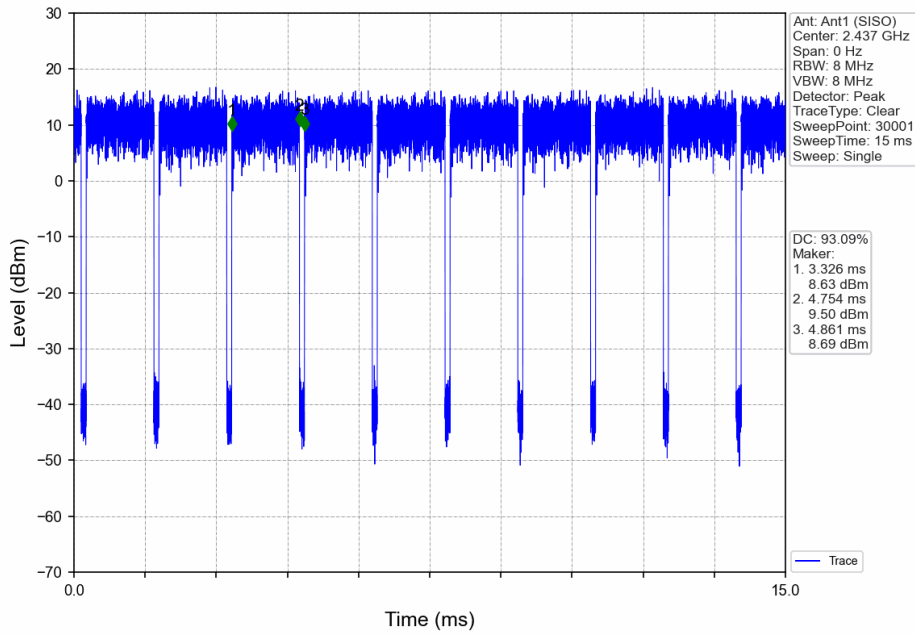
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



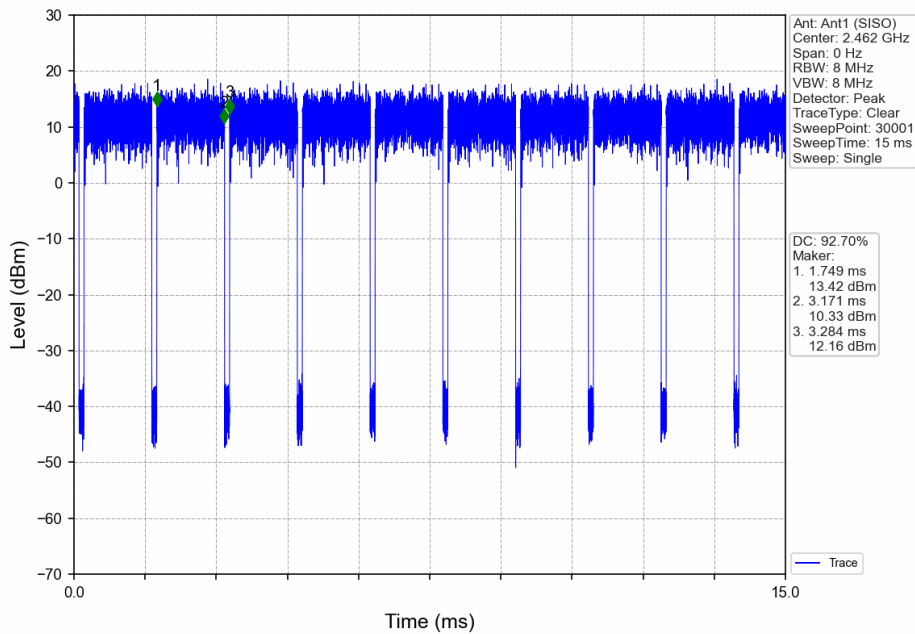
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



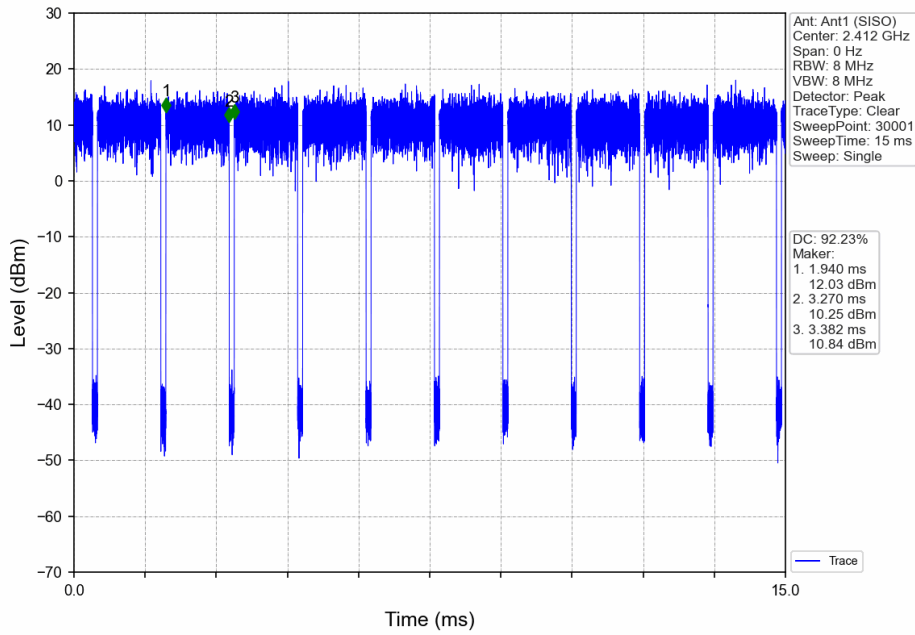
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



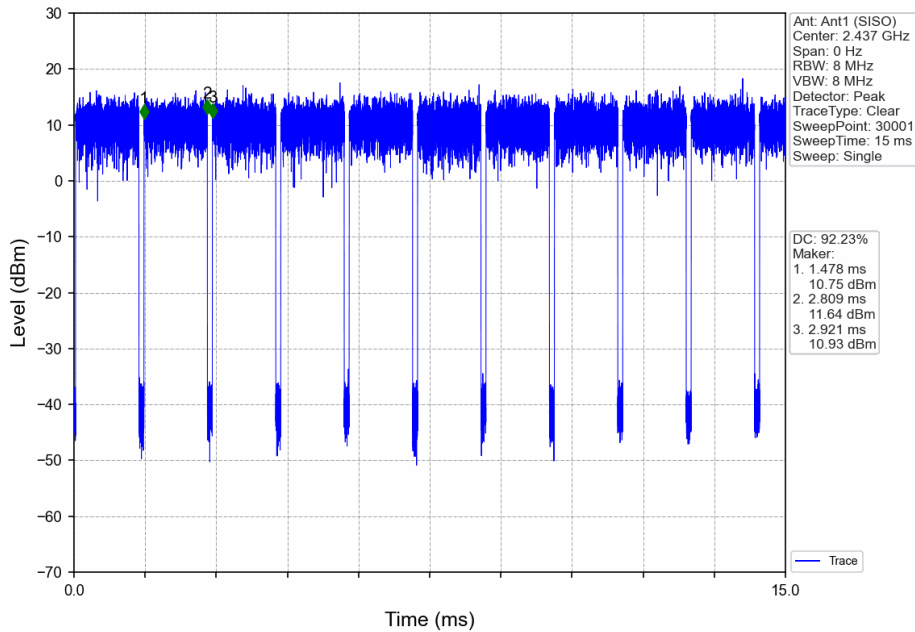
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

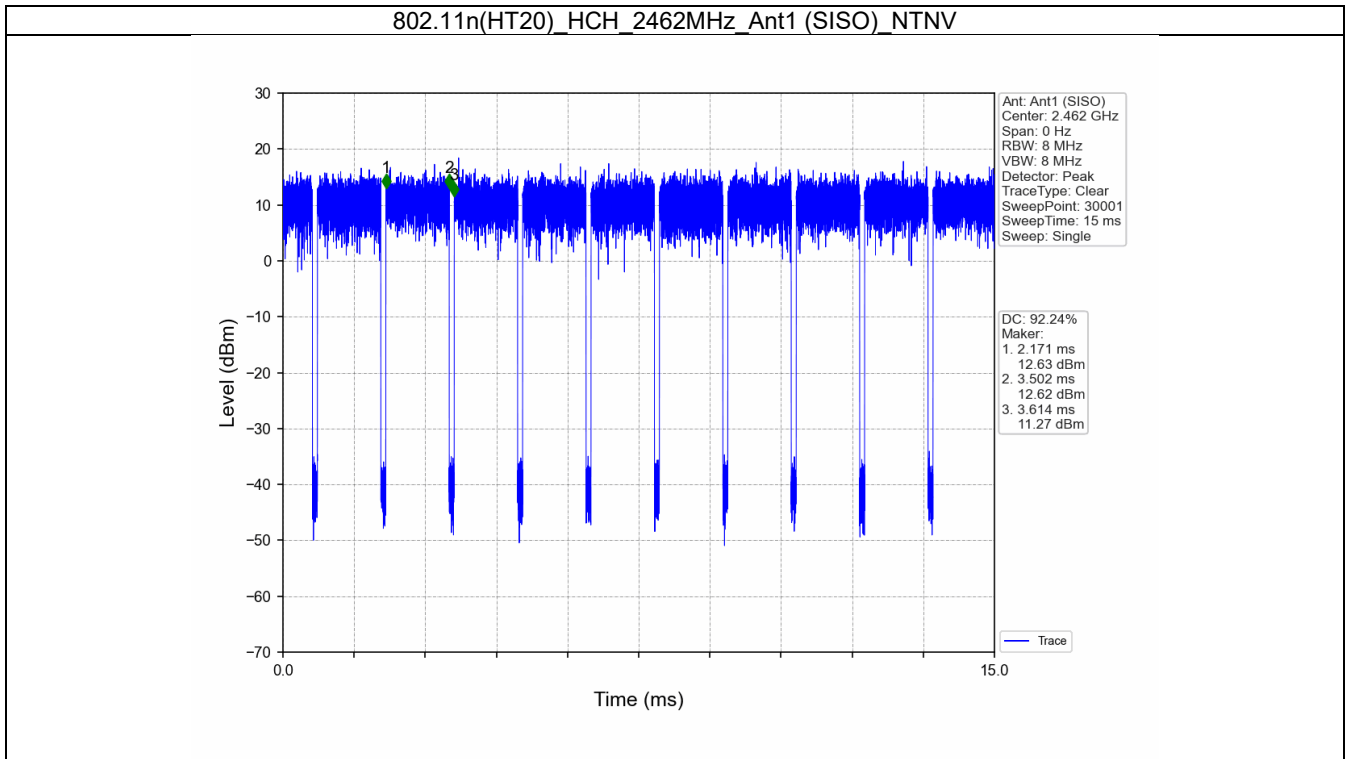


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





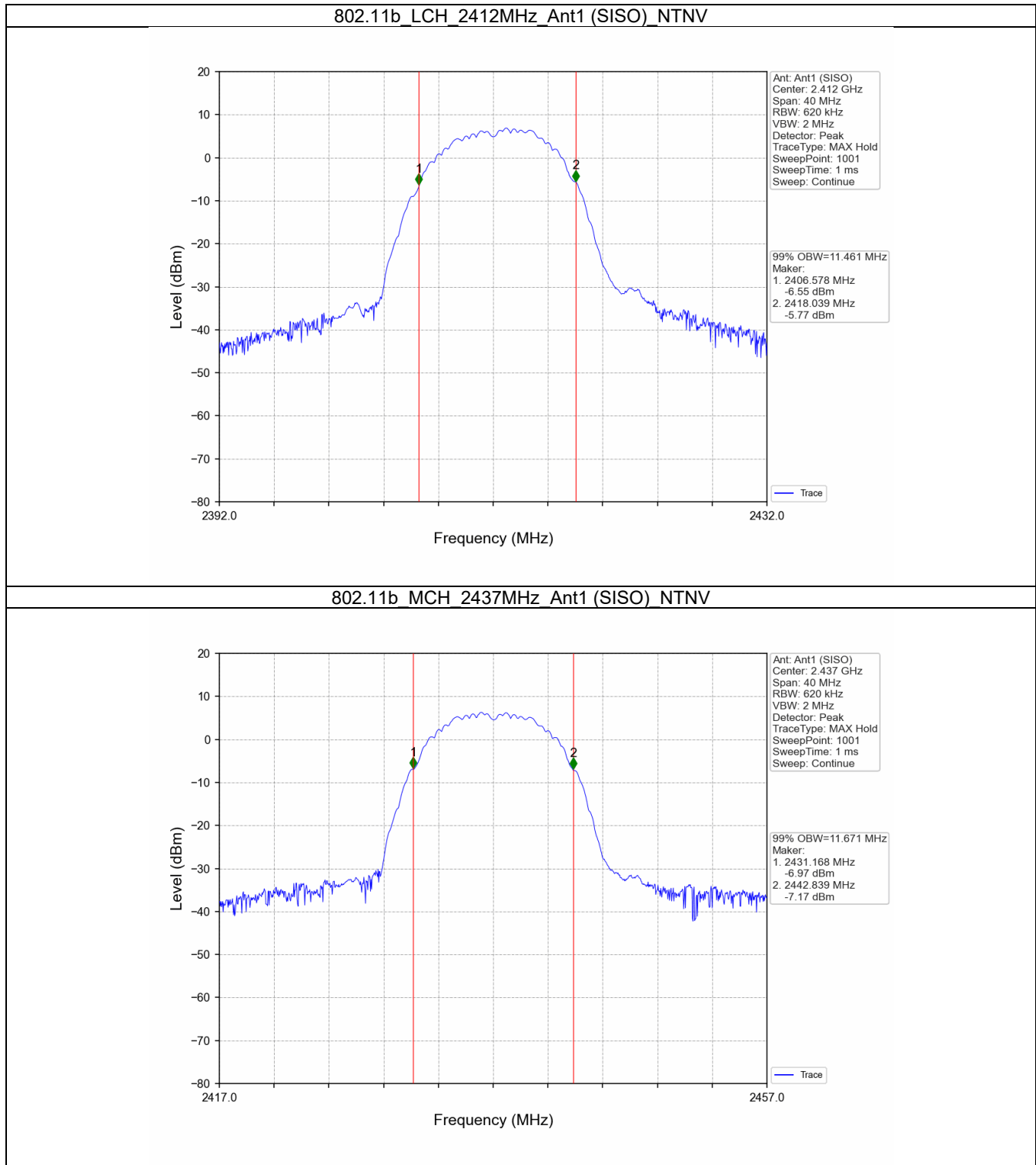
2. Bandwidth

2.1 OBW

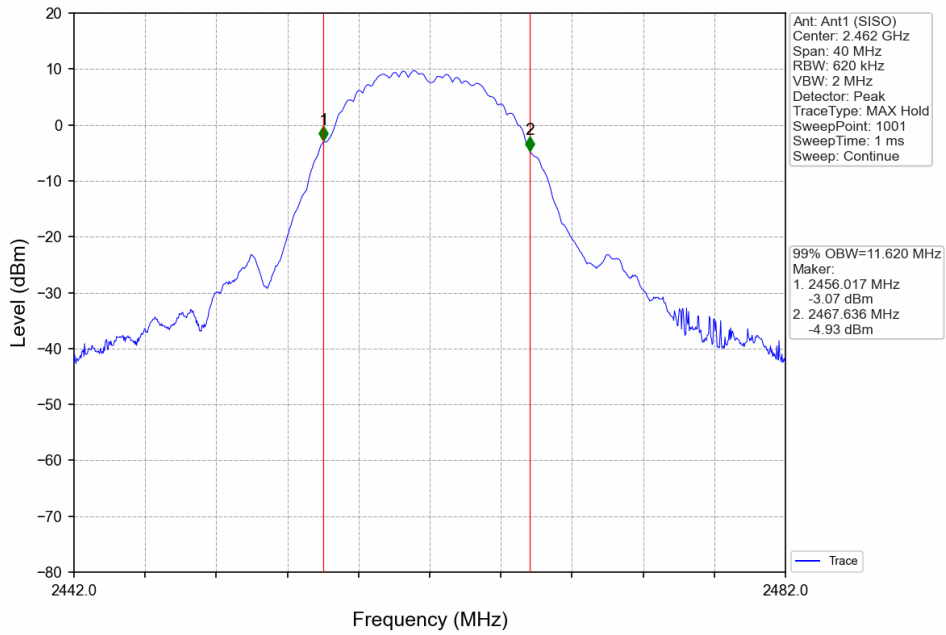
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)		Verdict
				Result		
802.11b	SISO	2412	1	11.461		Pass
		2437	1	11.671		Pass
		2462	1	11.620		Pass
802.11g	SISO	2412	1	17.369		Pass
		2437	1	17.764		Pass
		2462	1	17.209		Pass
802.11n (HT20)	SISO	2412	1	18.358		Pass
		2437	1	18.717		Pass
		2462	1	18.133		Pass

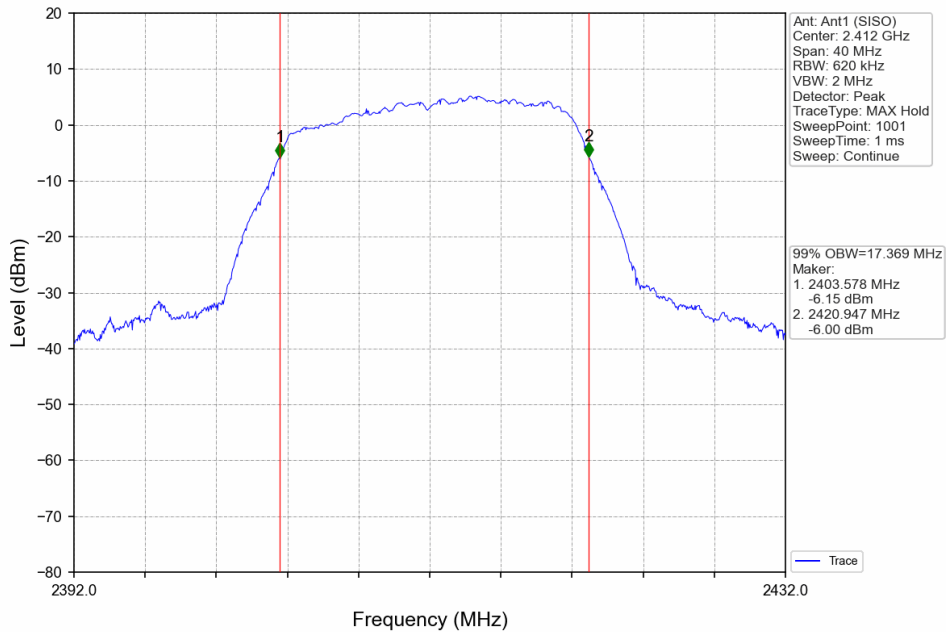
2.1.2 Test Graph



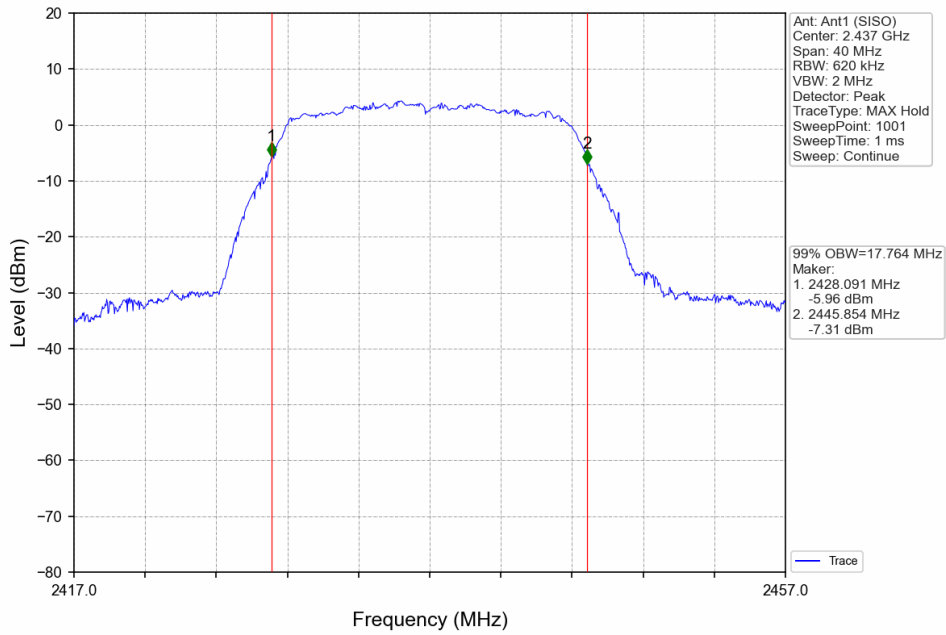
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



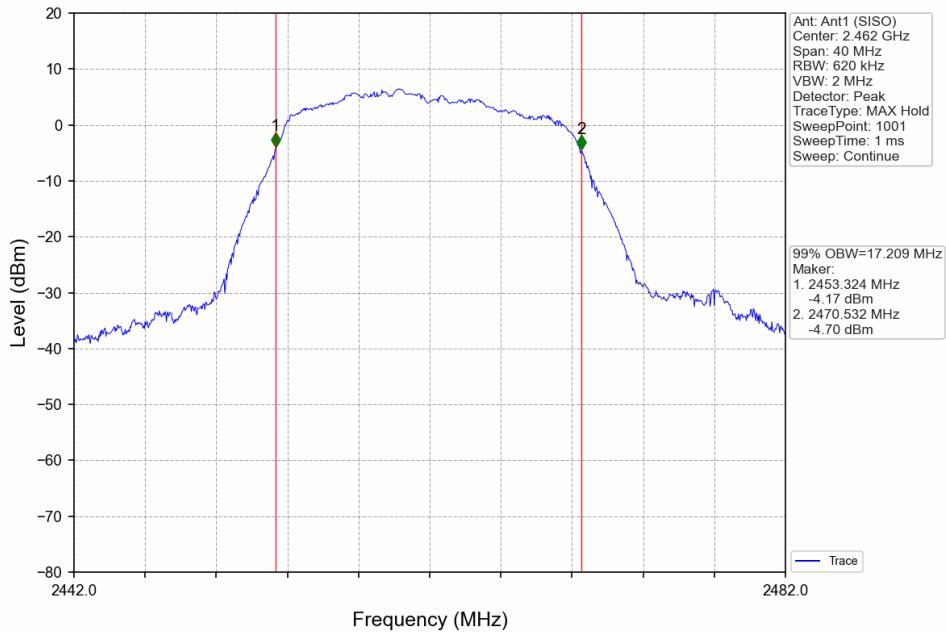
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



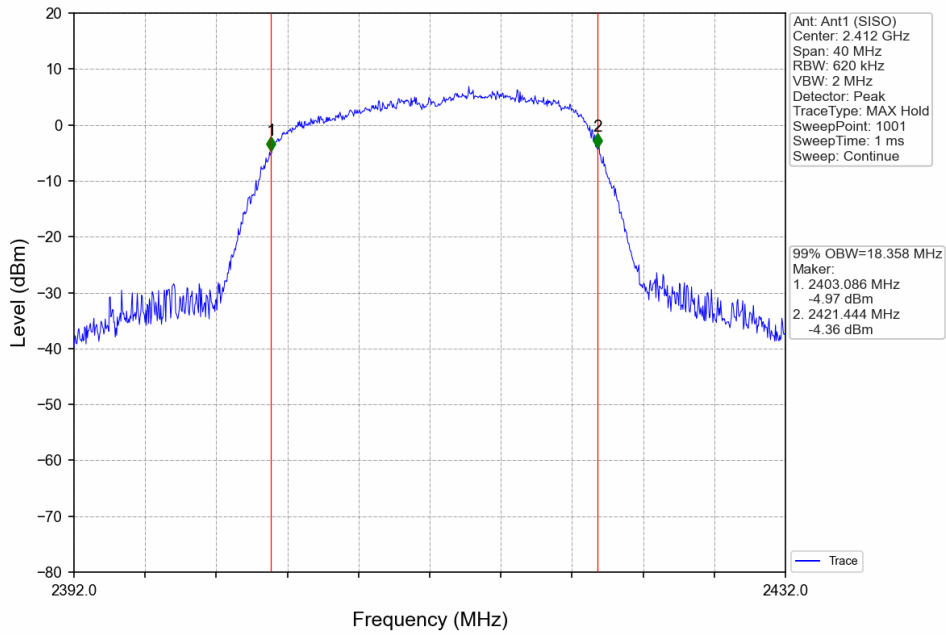
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



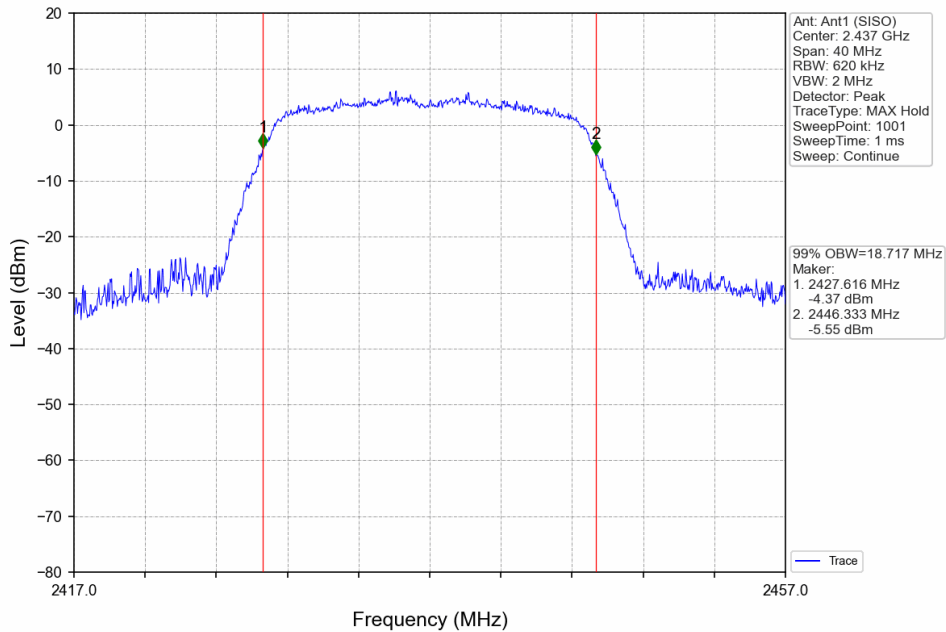
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



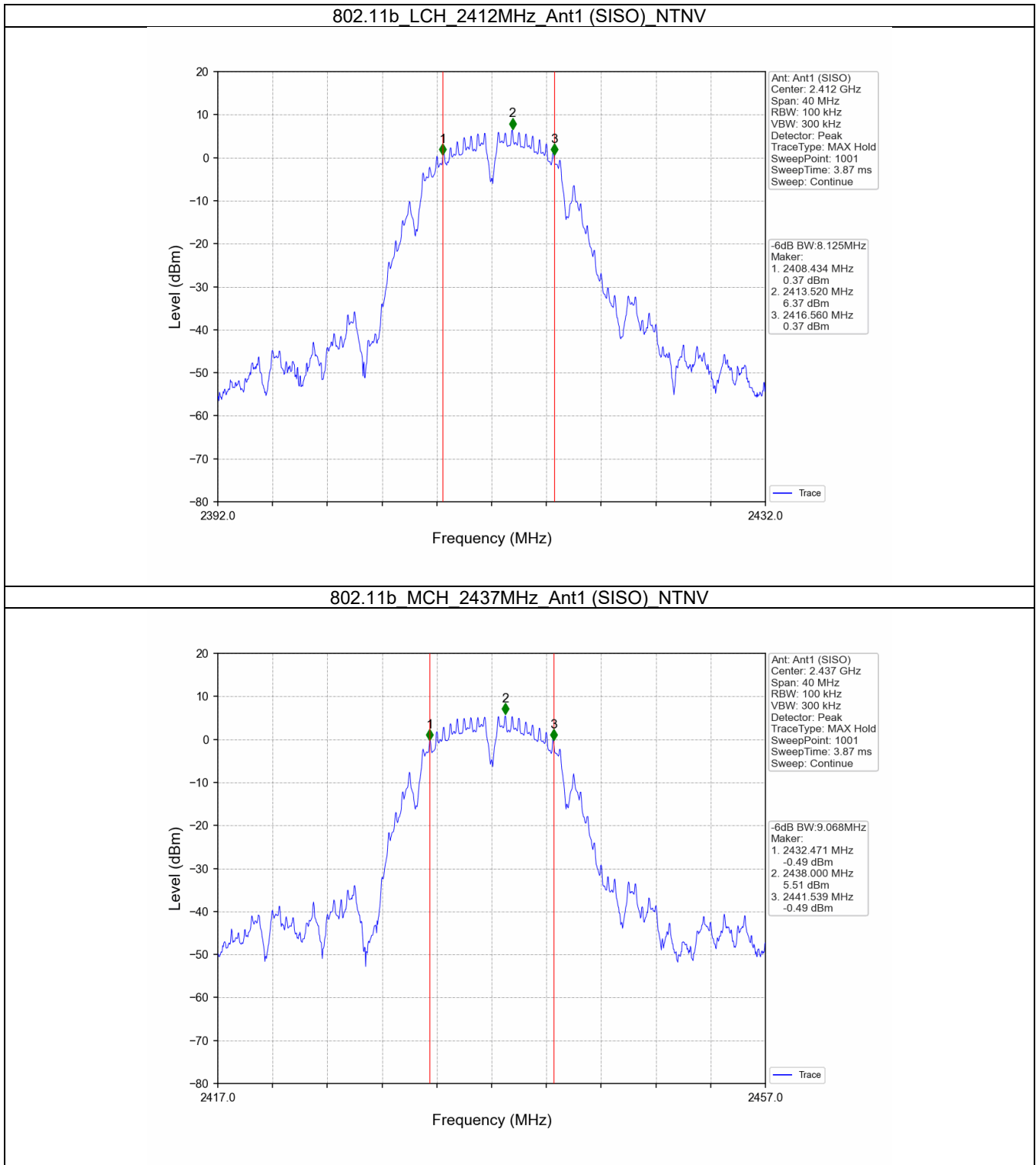


2.2 6dB BW

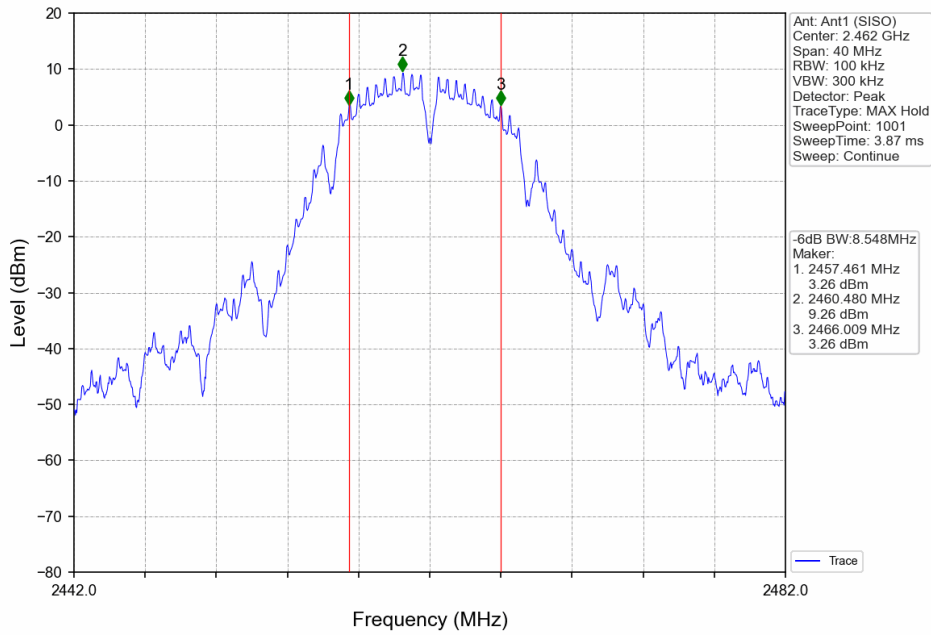
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.125	>=0.5	Pass
		2437	1	9.068	>=0.5	Pass
		2462	1	8.548	>=0.5	Pass
802.11g	SISO	2412	1	15.695	>=0.5	Pass
		2437	1	16.093	>=0.5	Pass
		2462	1	15.445	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.295	>=0.5	Pass
		2437	1	17.093	>=0.5	Pass
		2462	1	15.392	>=0.5	Pass

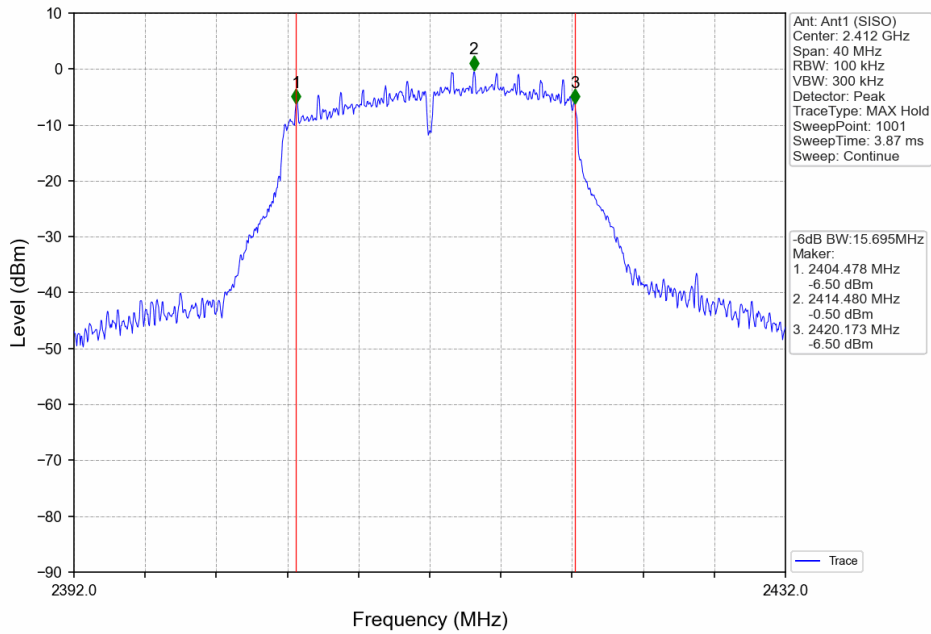
2.2.2 Test Graph



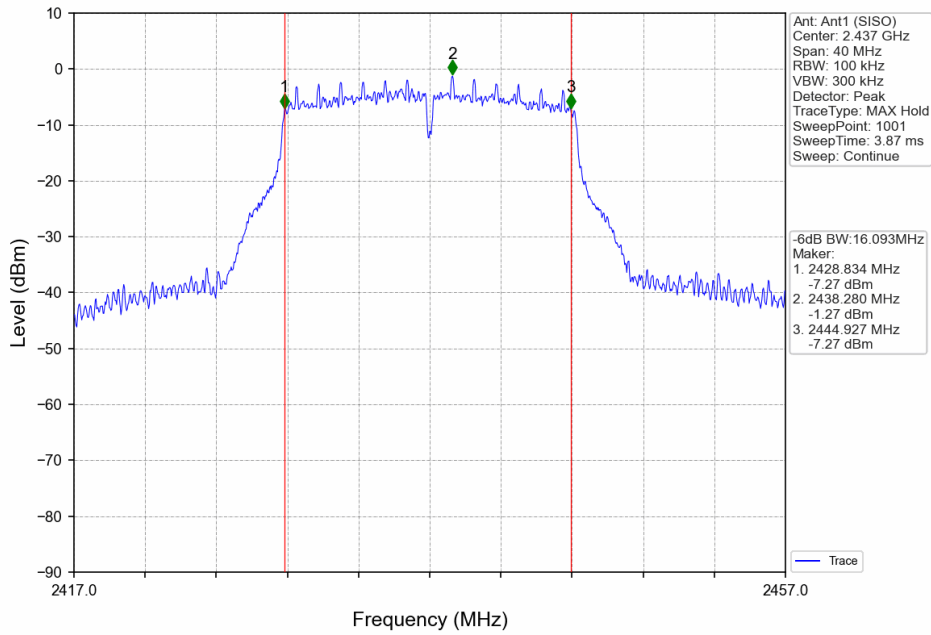
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



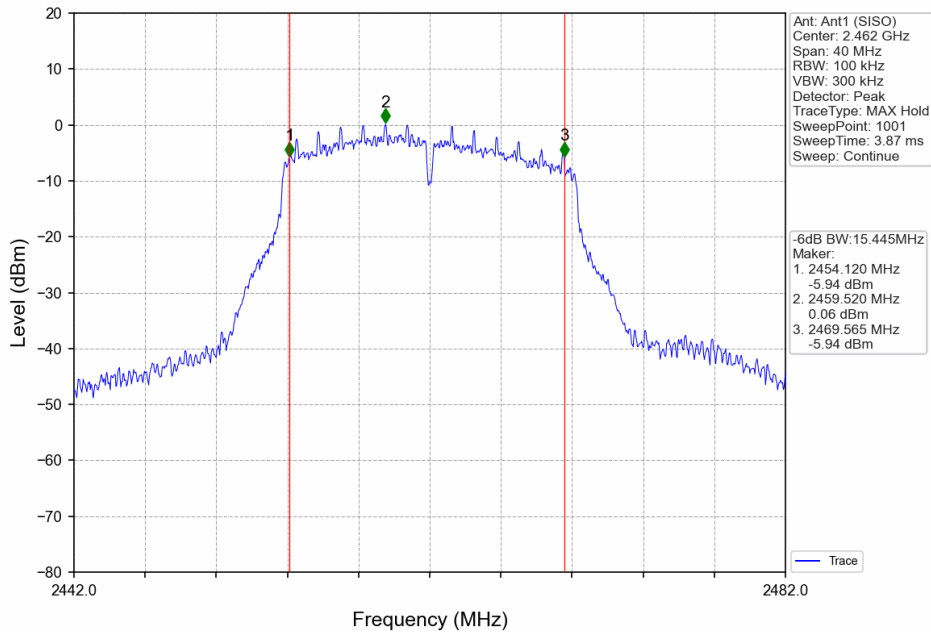
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



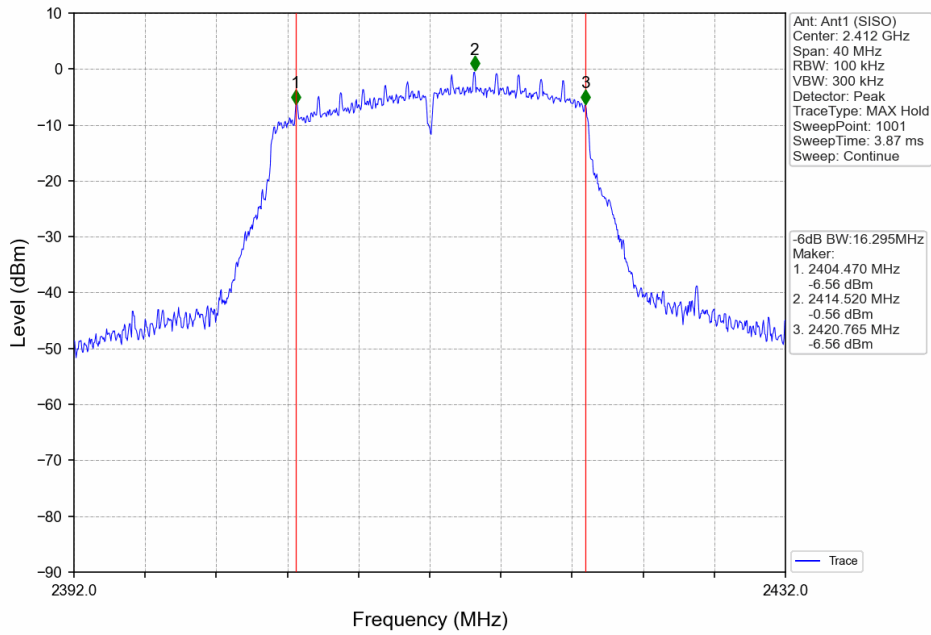
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



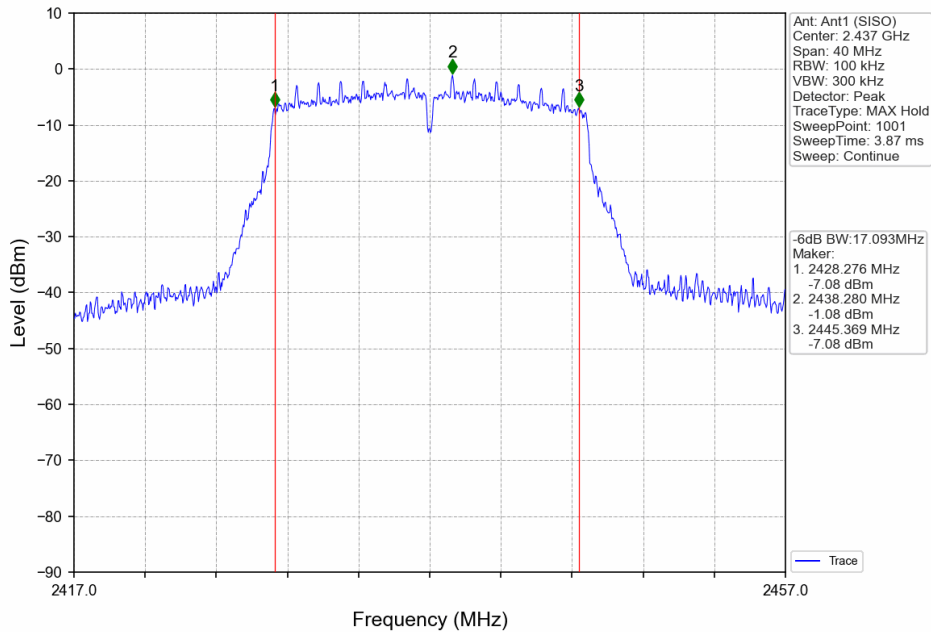
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

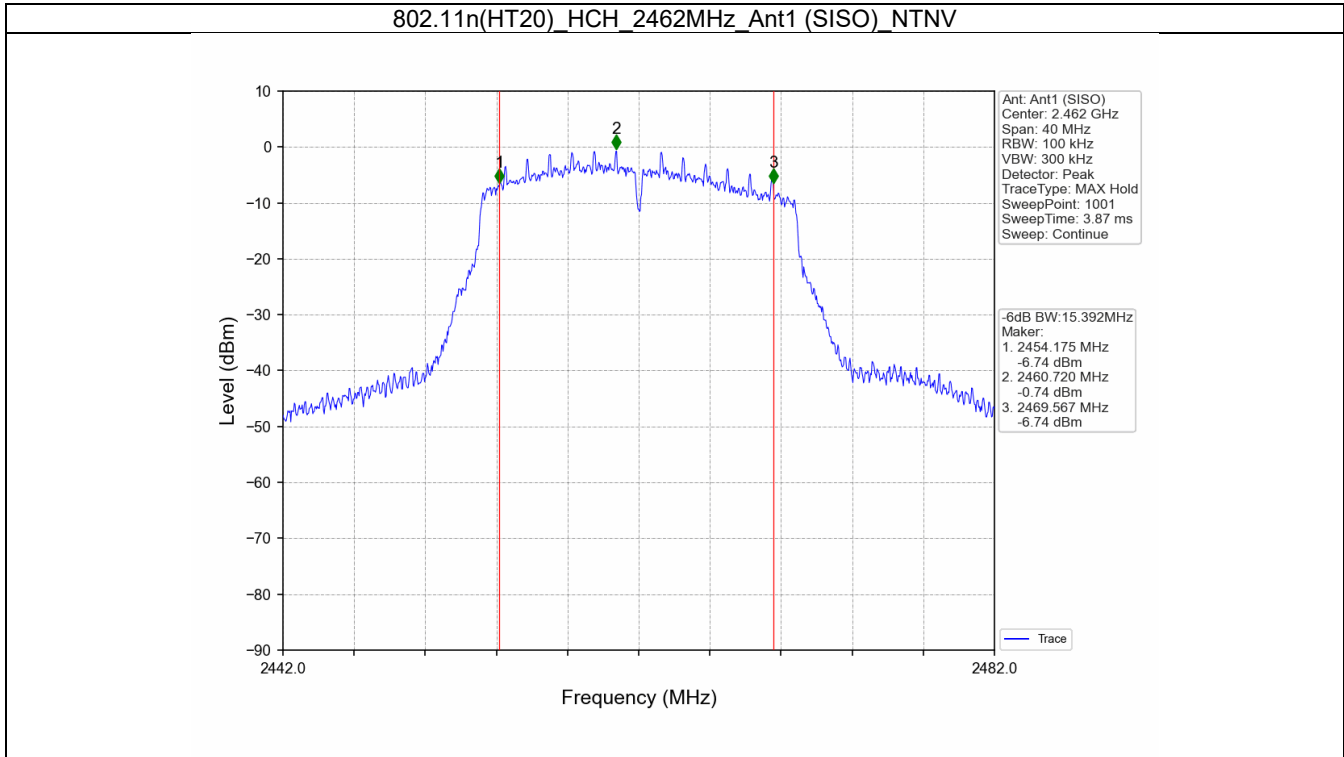


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	16.78	<=30	Pass
		2437	16.72	<=30	Pass
		2462	17.27	<=30	Pass
802.11g	SISO	2412	17.74	<=30	Pass
		2437	17.35	<=30	Pass
		2462	17.96	<=30	Pass
802.11n (HT20)	SISO	2412	17.49	<=30	Pass
		2437	17.55	<=30	Pass
		2462	17.39	<=30	Pass

Note1: Antenna Gain: Ant1: -6.14dBi;

4. Maximum Power Spectral Density

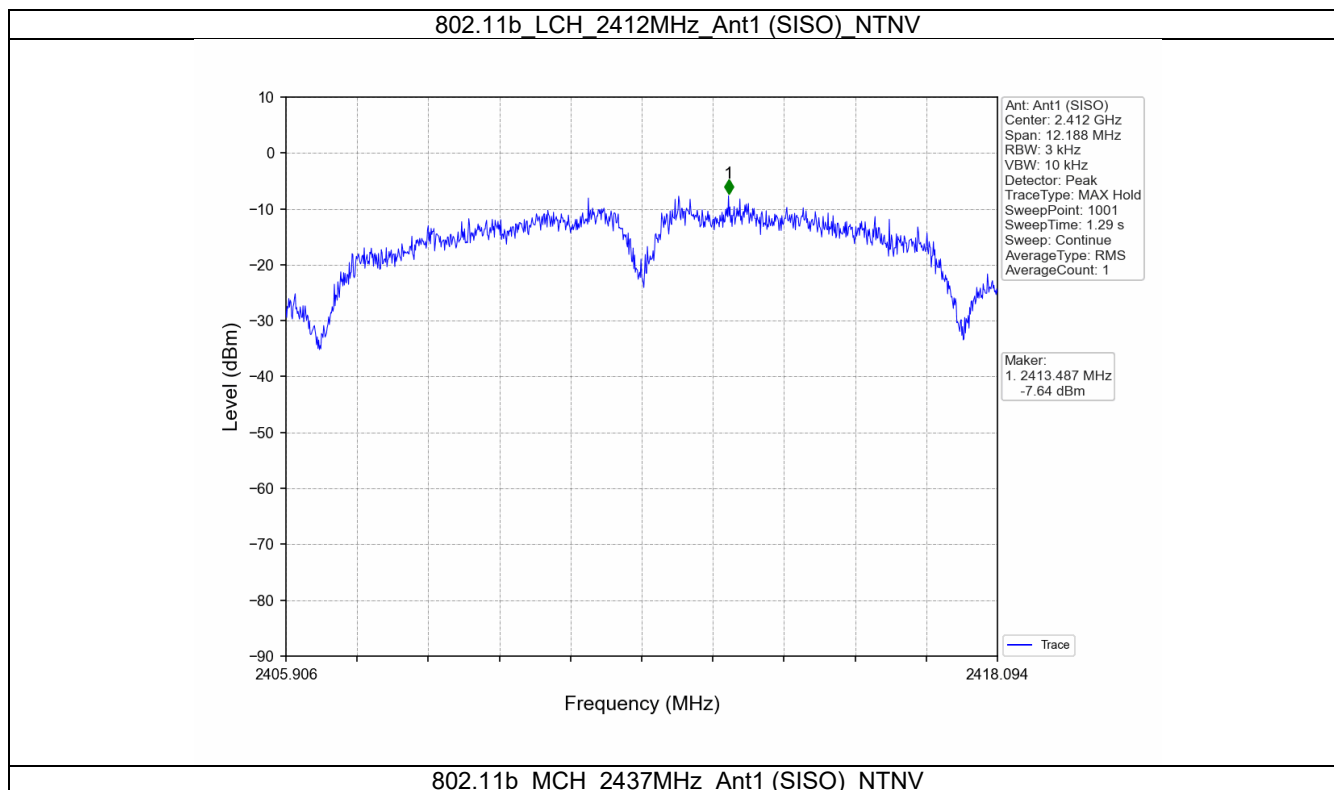
4.1 PSD

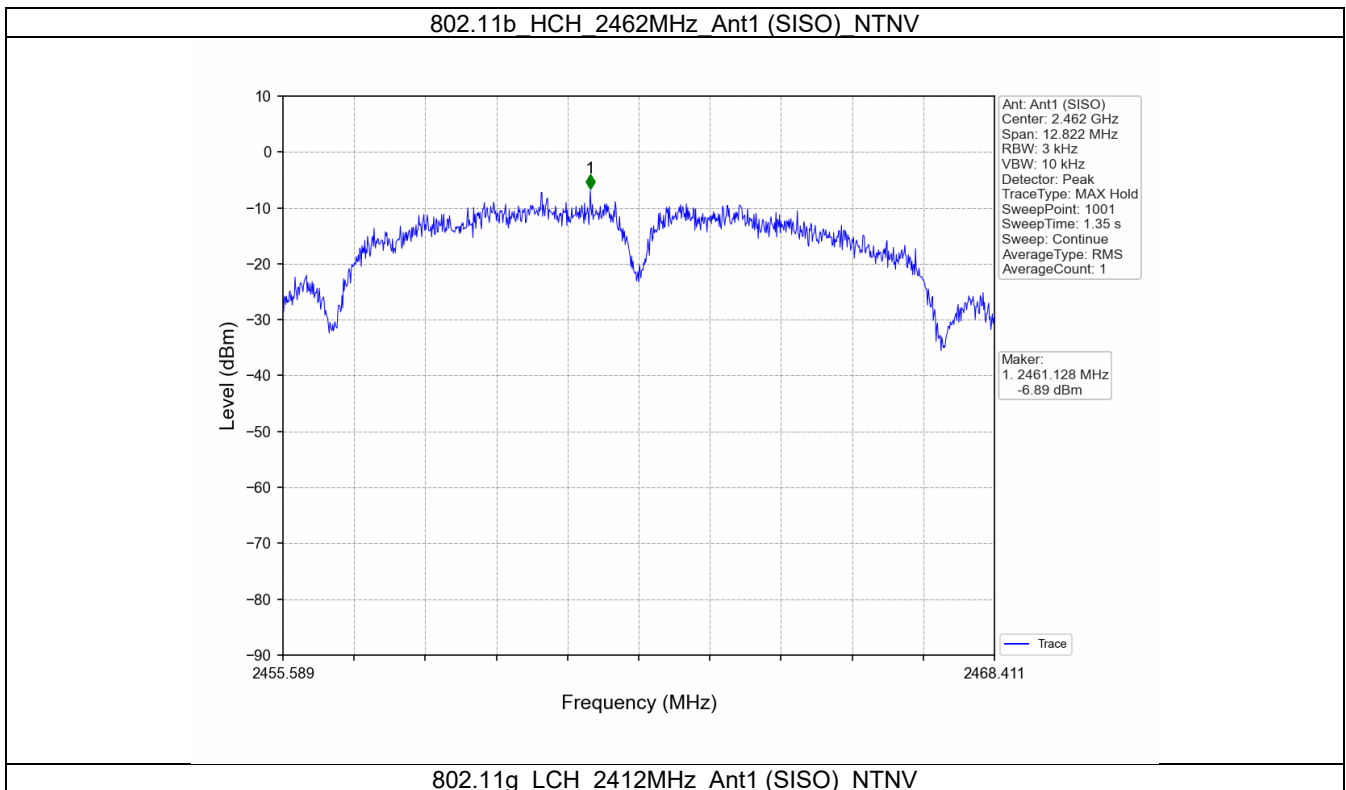
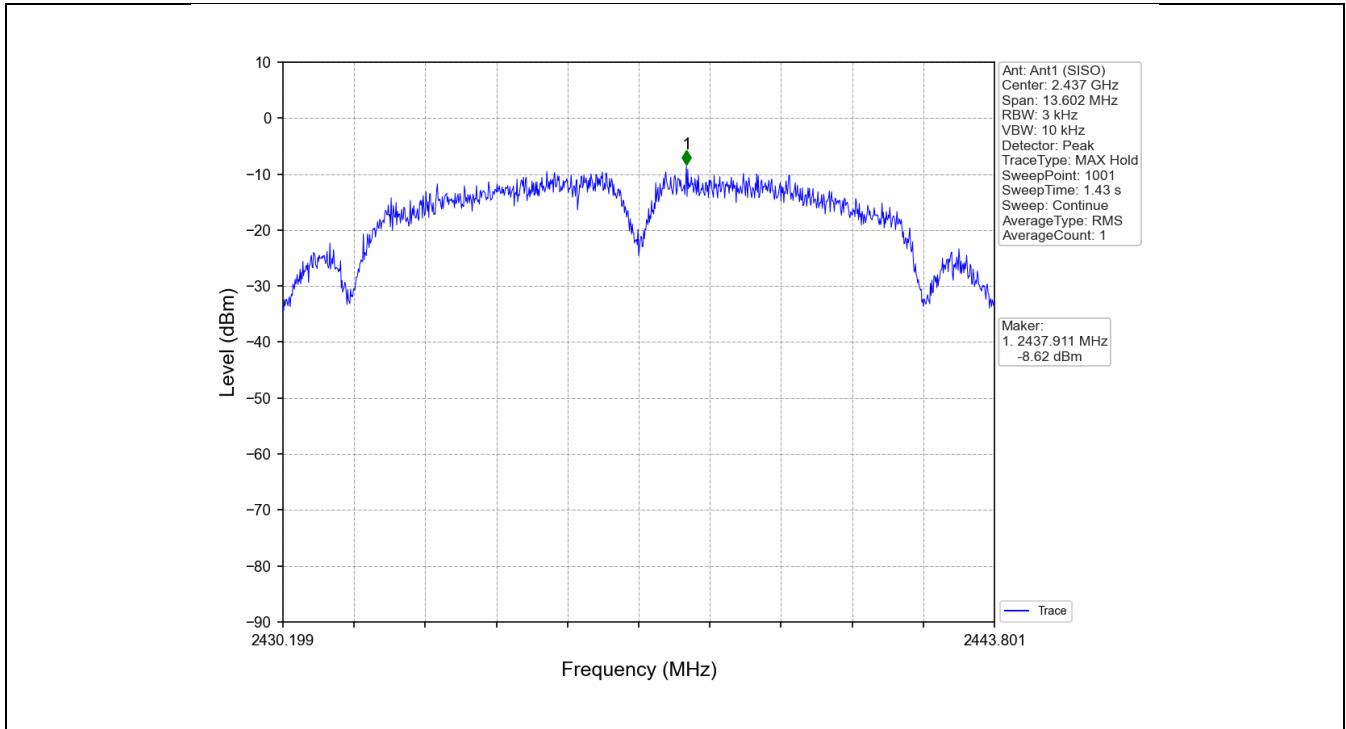
4.1.1 Test Result

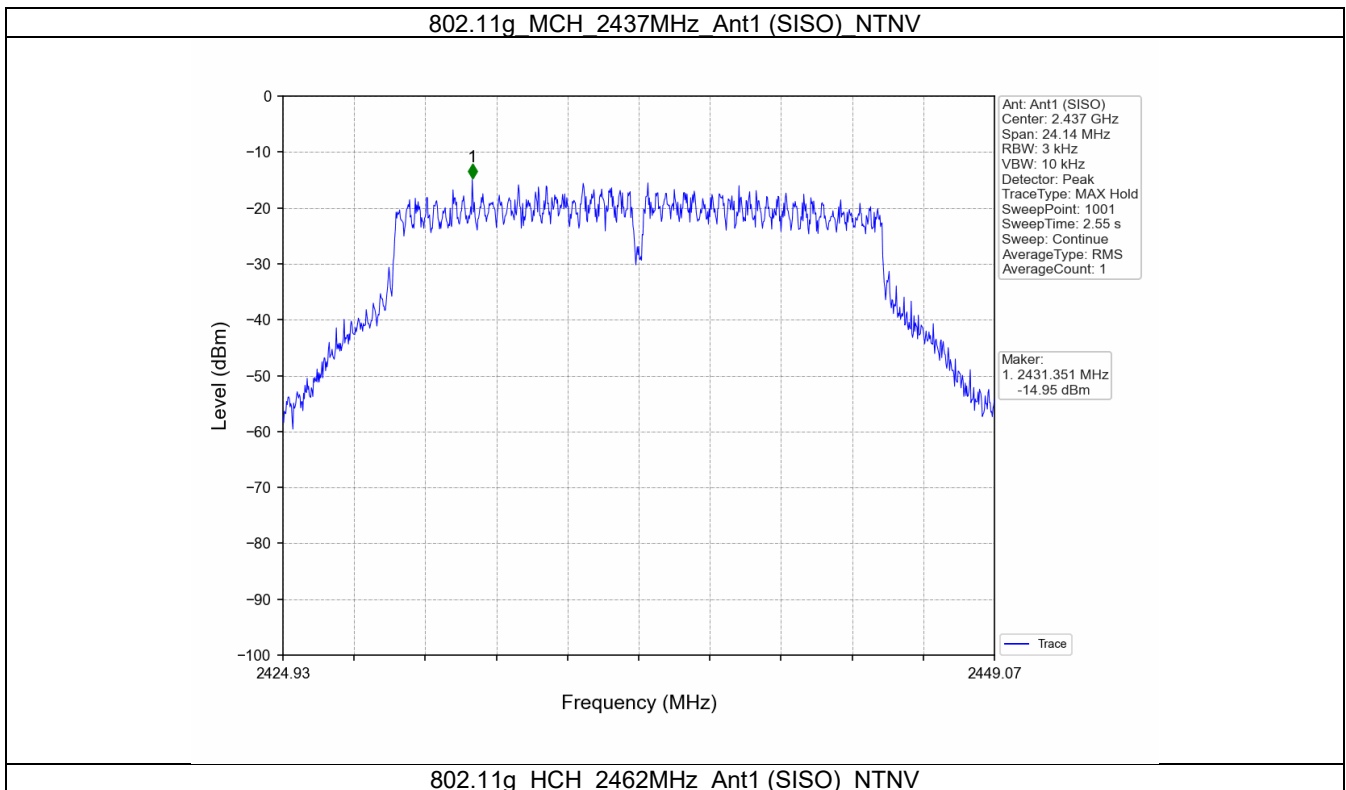
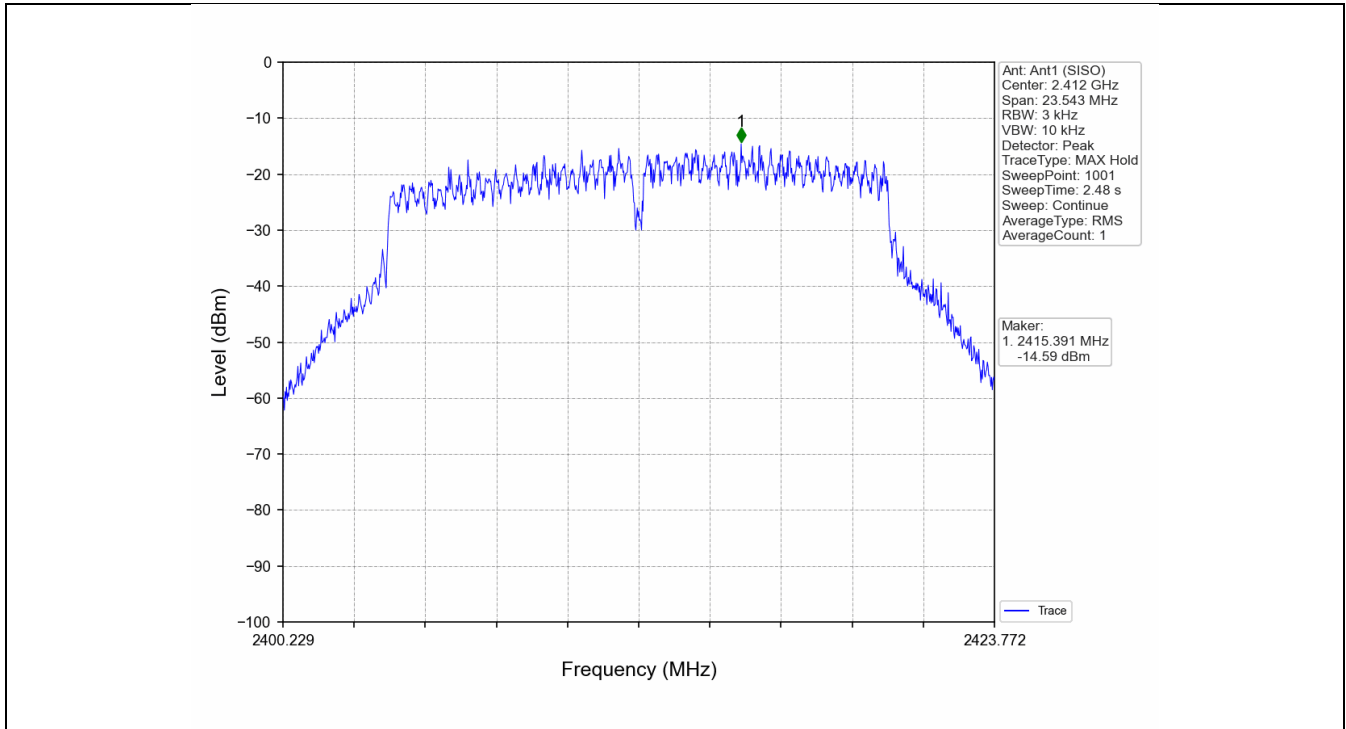
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-7.64	<=8	Pass
		2437	-8.62	<=8	Pass
		2462	-6.89	<=8	Pass
802.11g	SISO	2412	-14.59	<=8	Pass
		2437	-14.95	<=8	Pass
		2462	-13.67	<=8	Pass
802.11n (HT20)	SISO	2412	-13.64	<=8	Pass
		2437	-15.14	<=8	Pass
		2462	-13.47	<=8	Pass

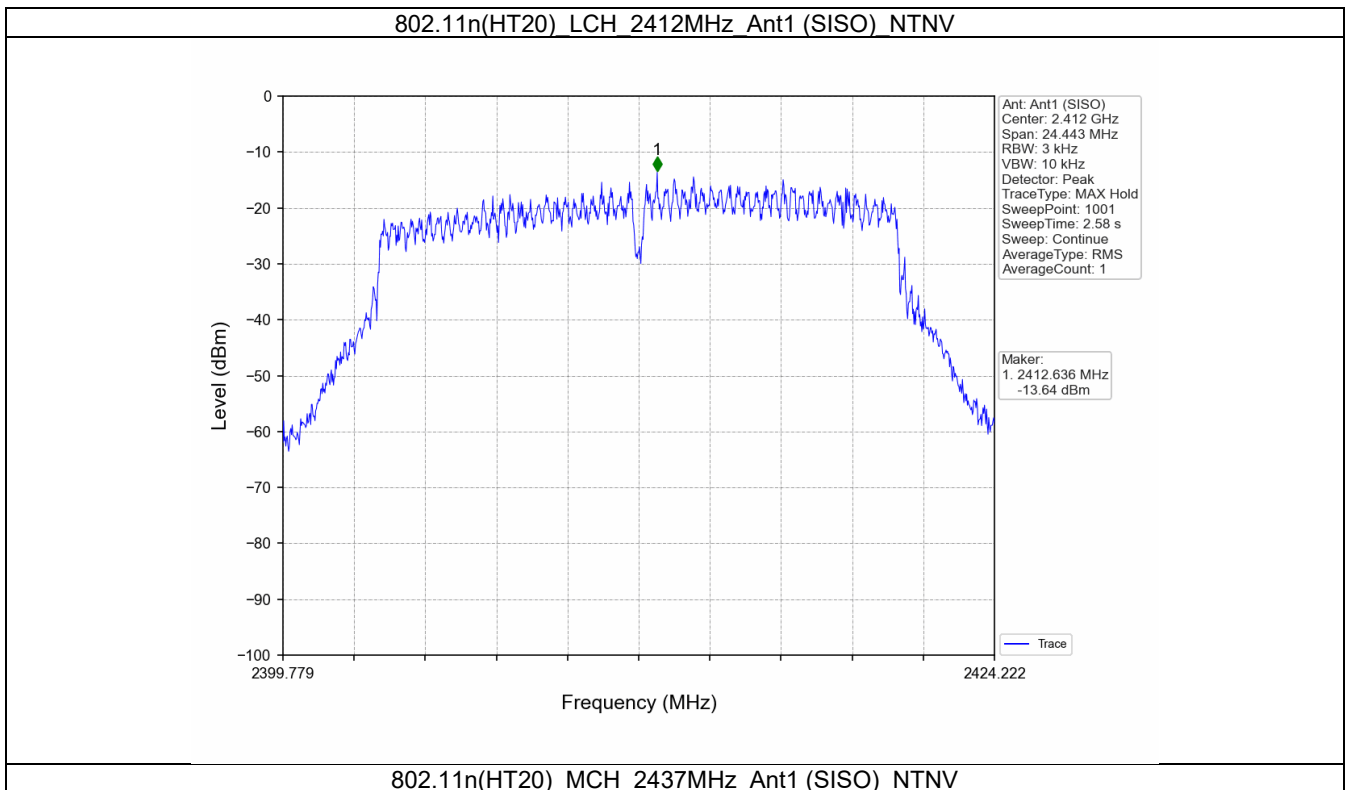
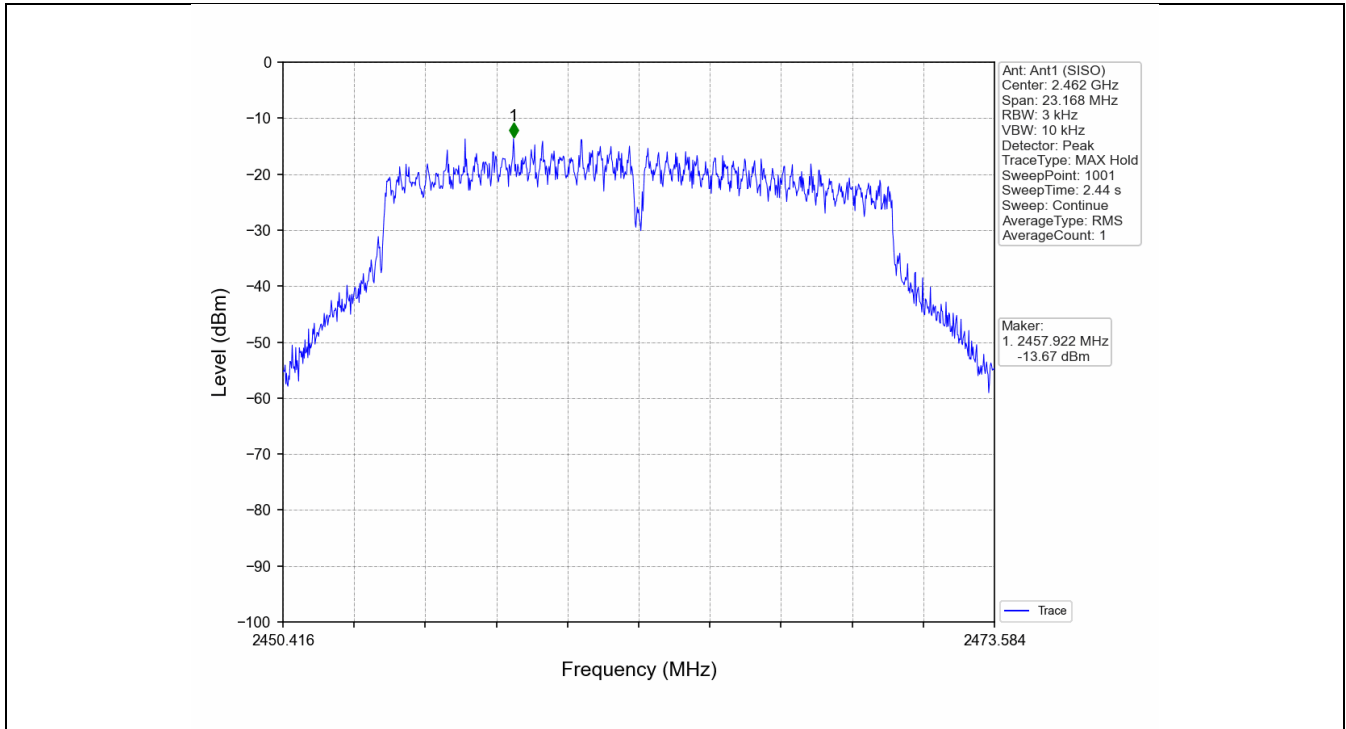
Note1: Antenna Gain: Ant1: -6.14dBi;

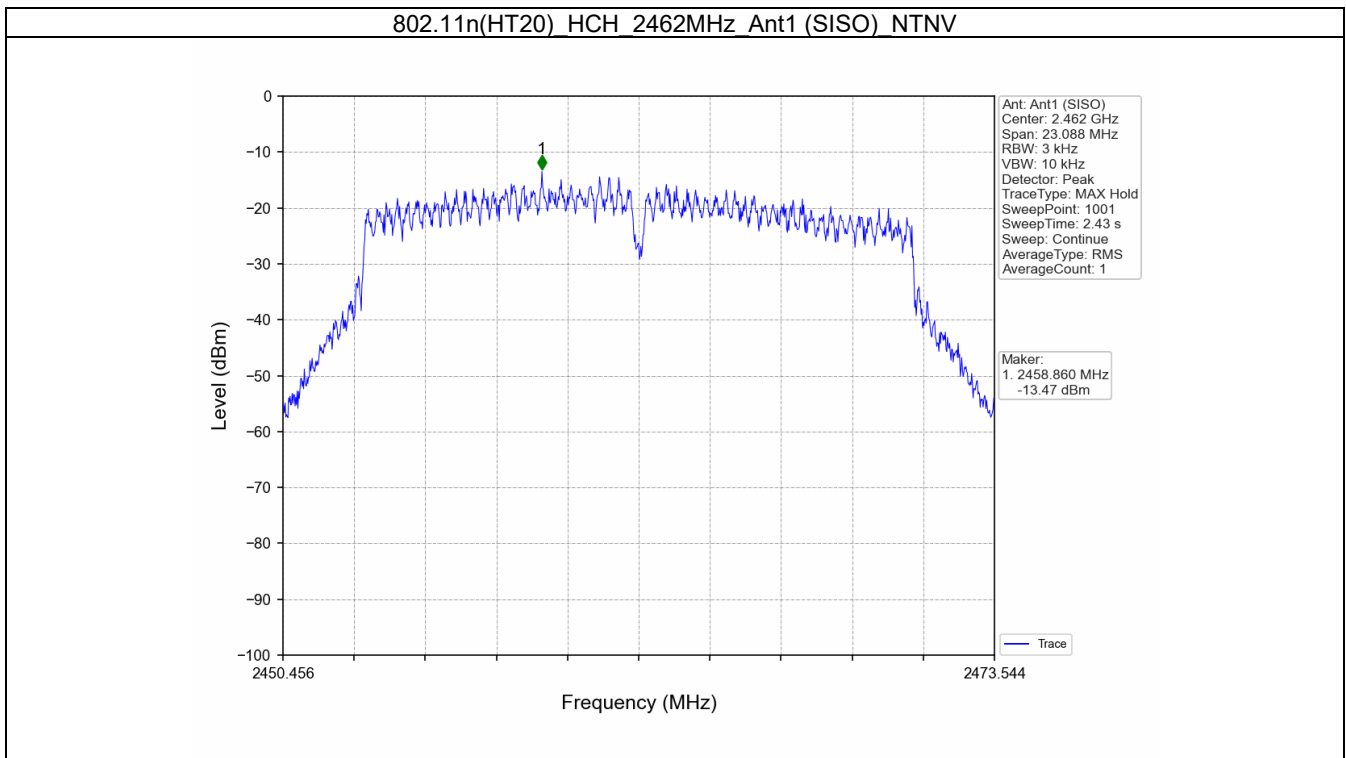
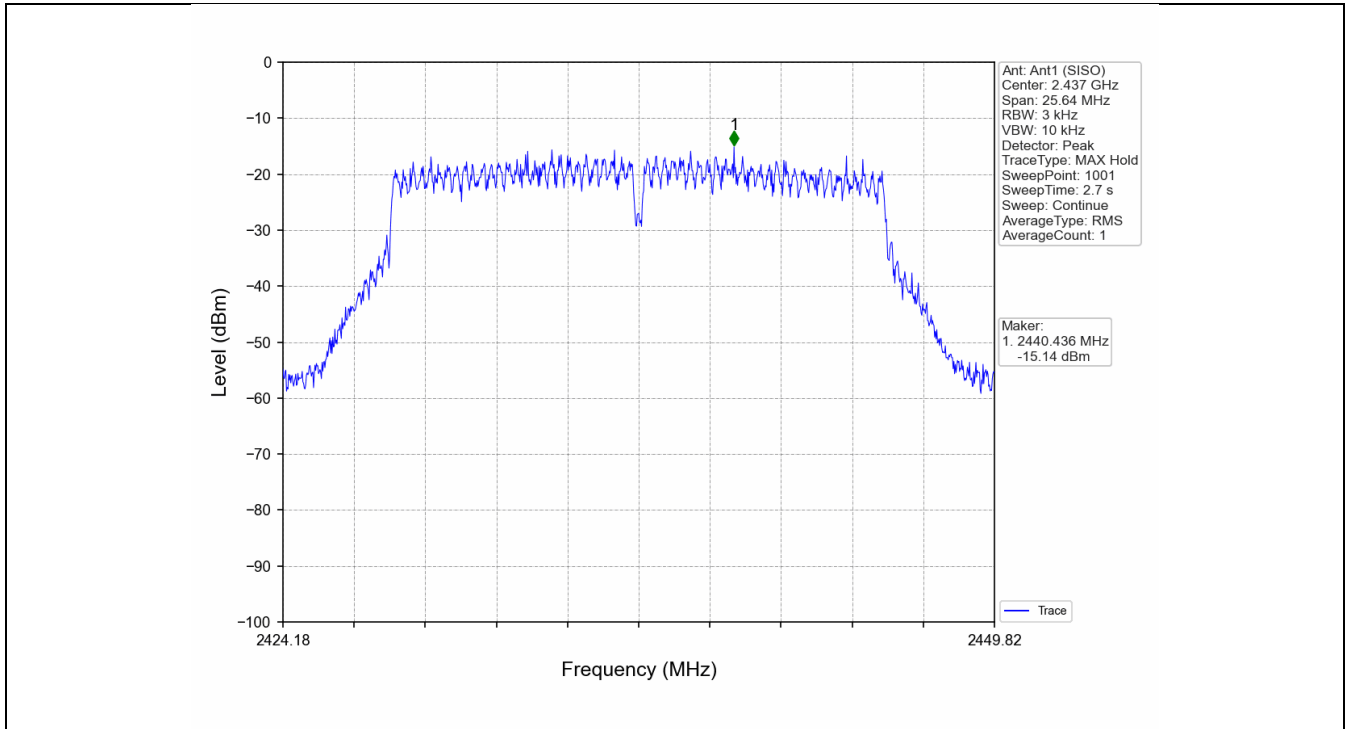
4.1.2 Test Graph











5. Unwanted Emissions In Non-restricted Frequency Bands

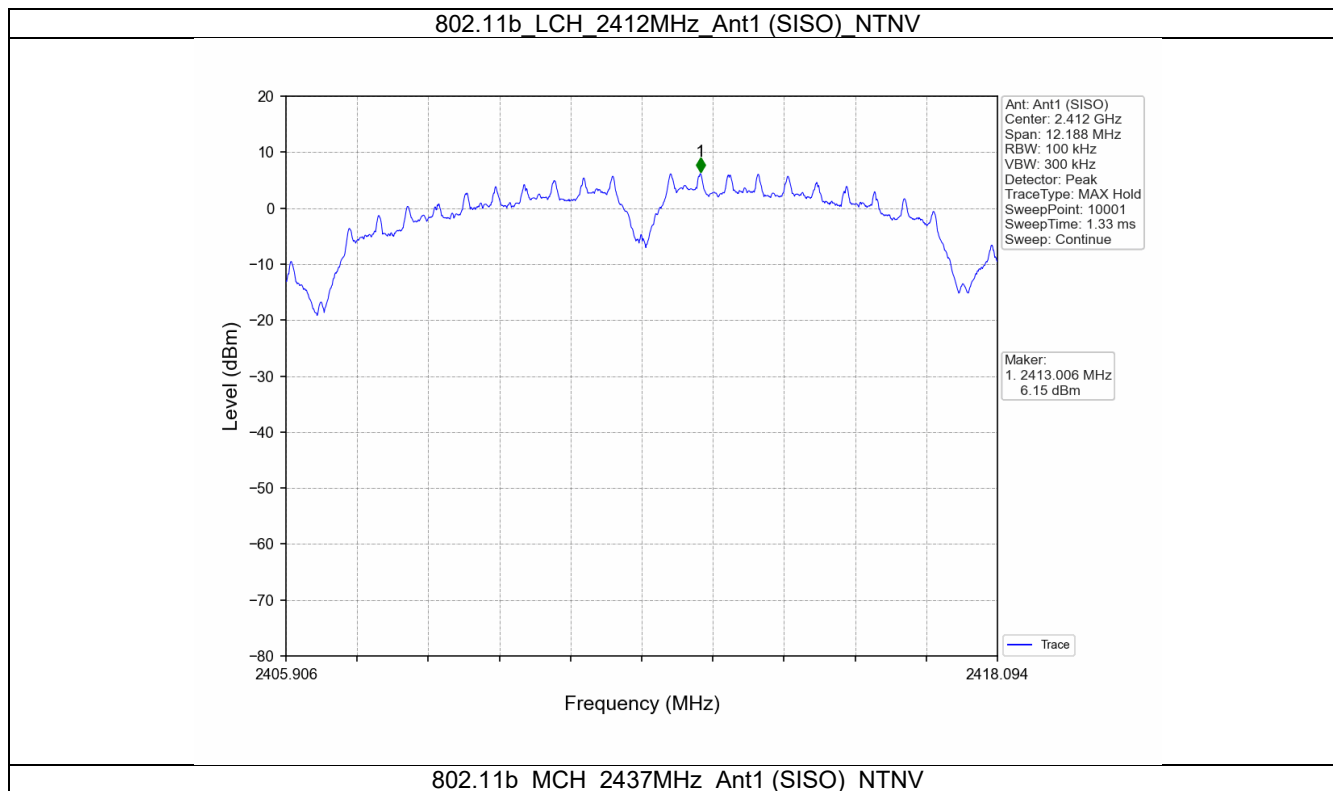
5.1 Ref

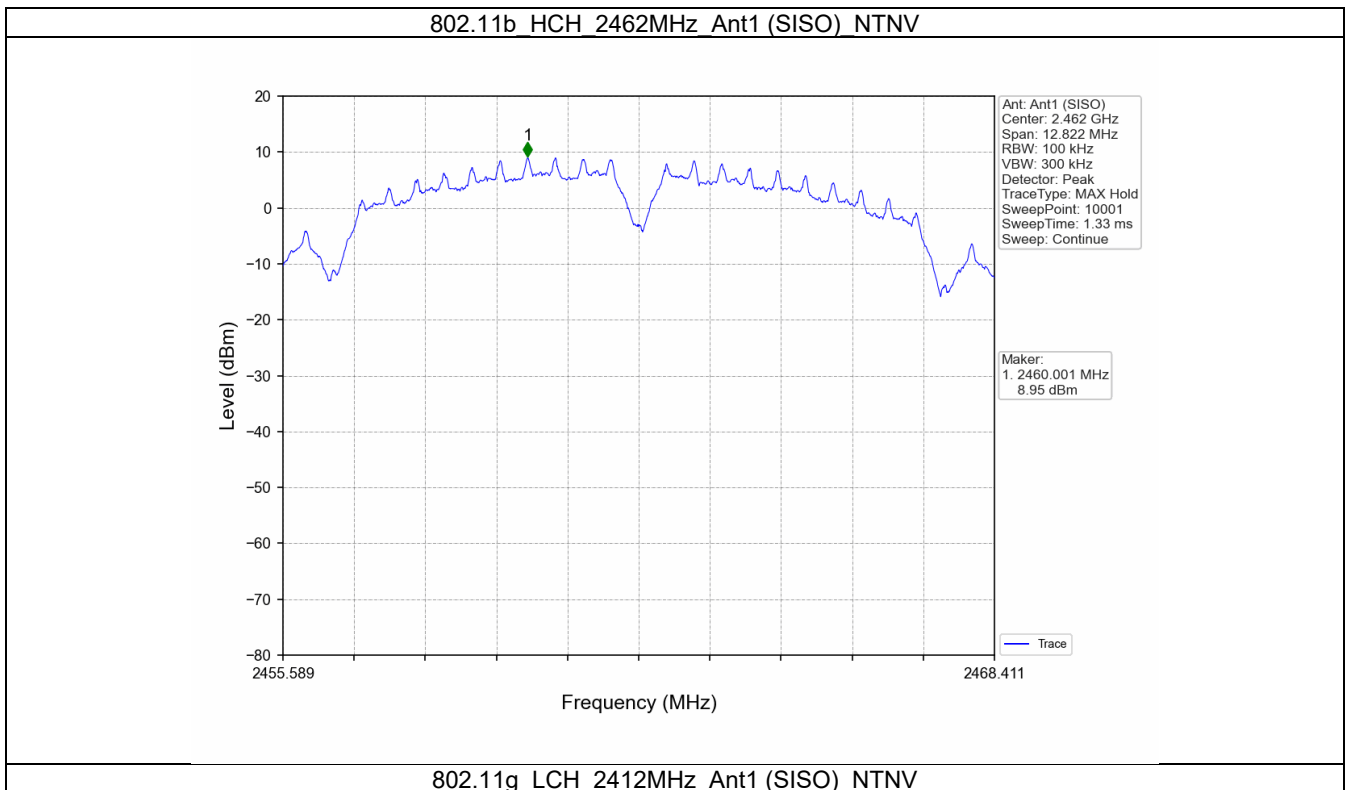
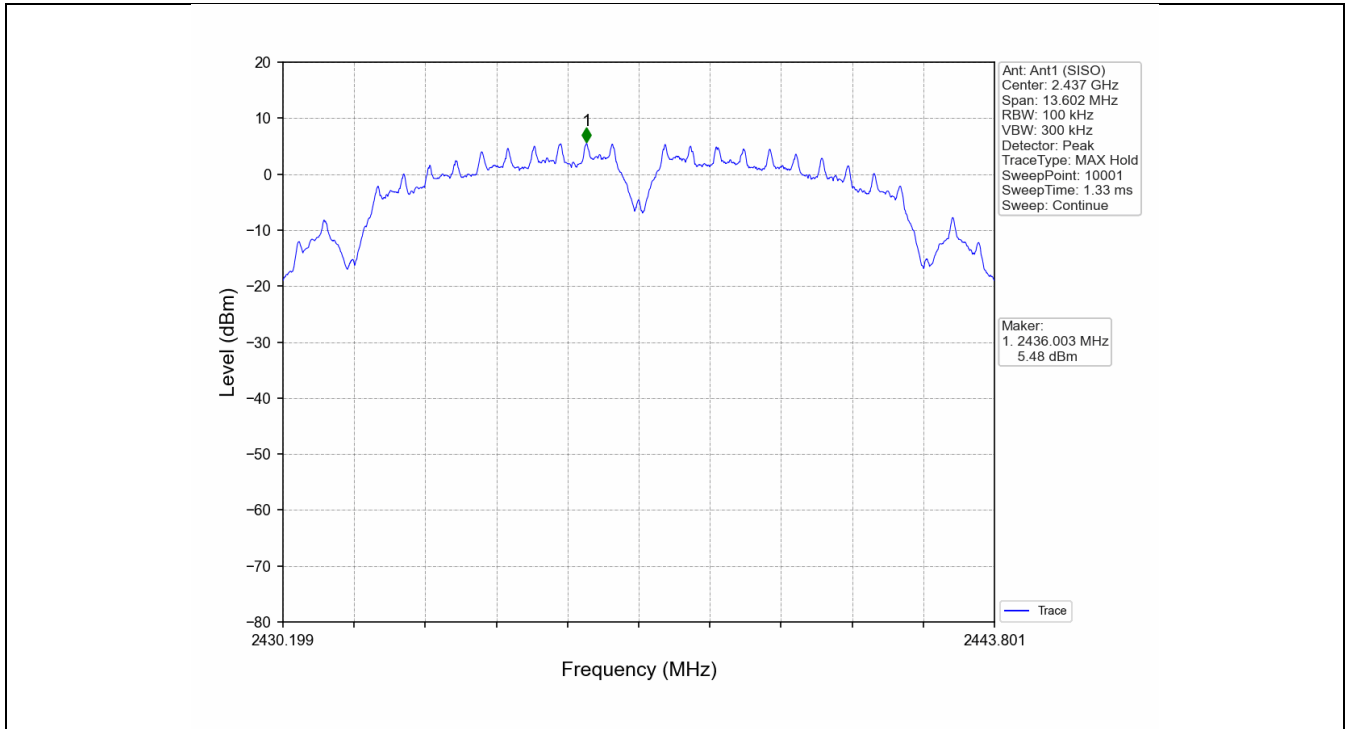
5.1.1 Test Result

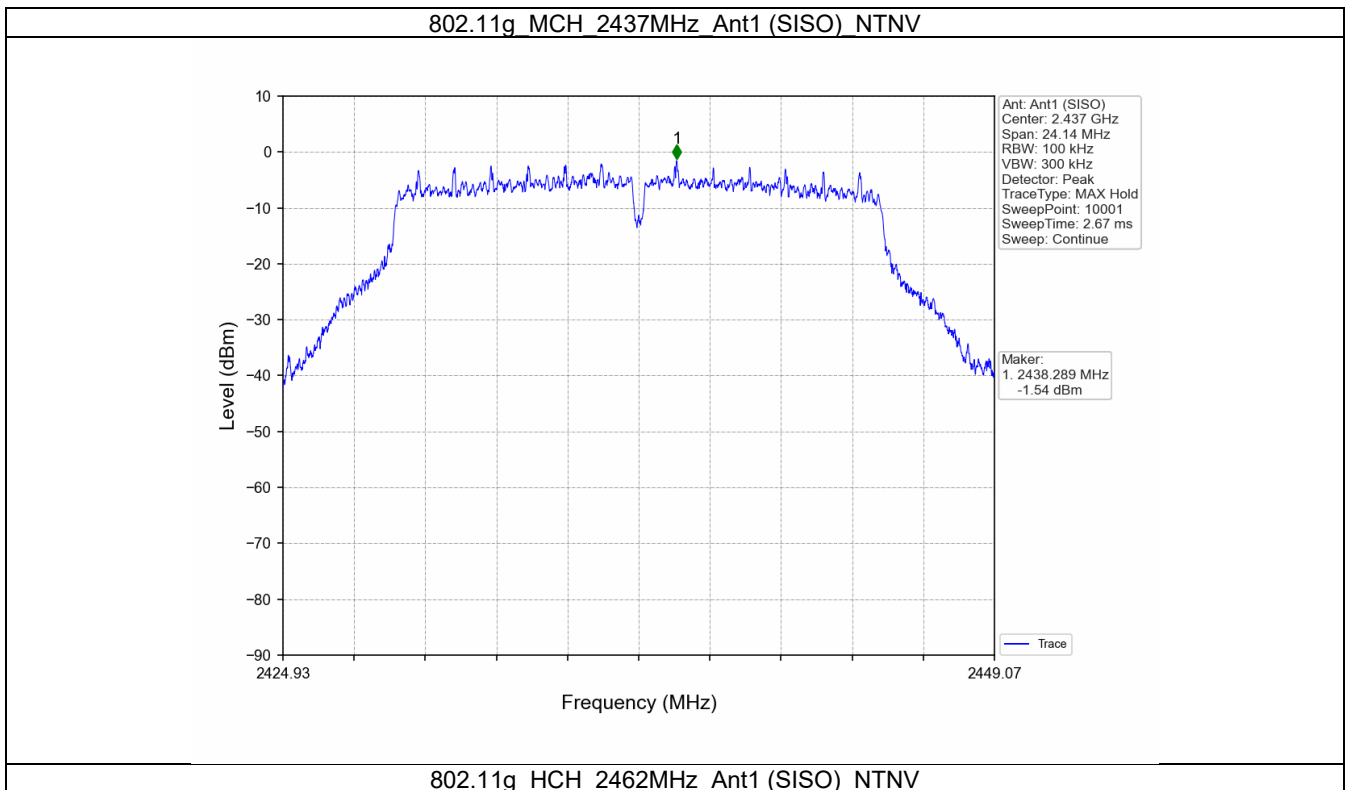
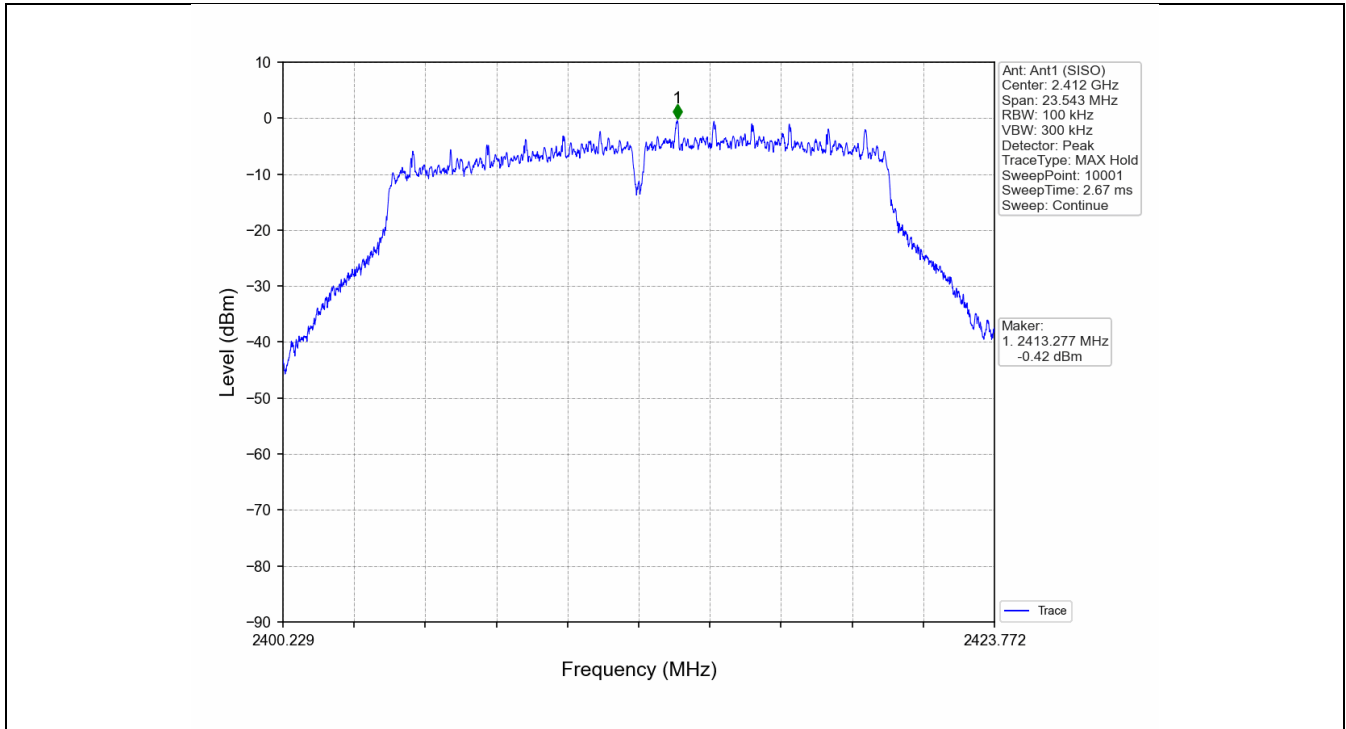
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.15
		2437	1	5.48
		2462	1	8.95
802.11g	SISO	2412	1	-0.42
		2437	1	-1.54
		2462	1	0.02
802.11n (HT20)	SISO	2412	1	-0.65
		2437	1	-1.68
		2462	1	-0.79

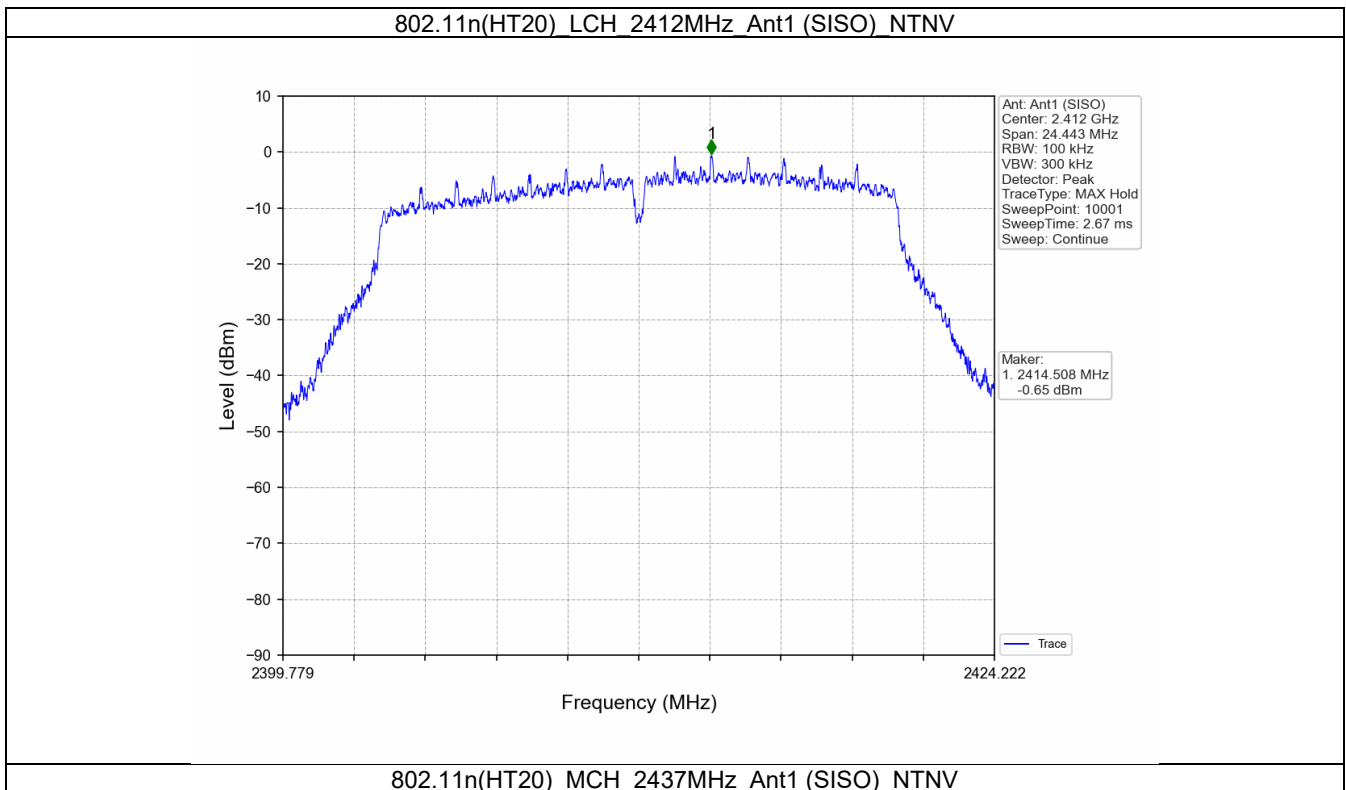
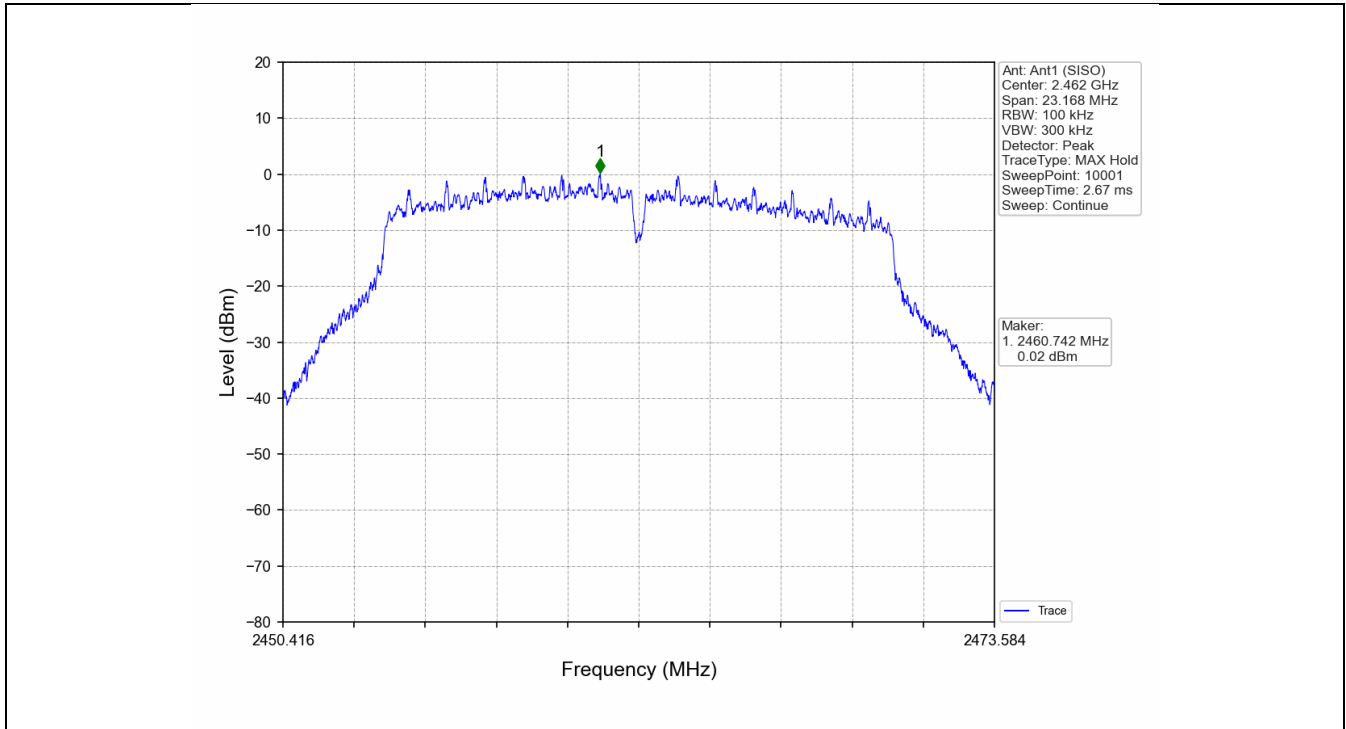
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

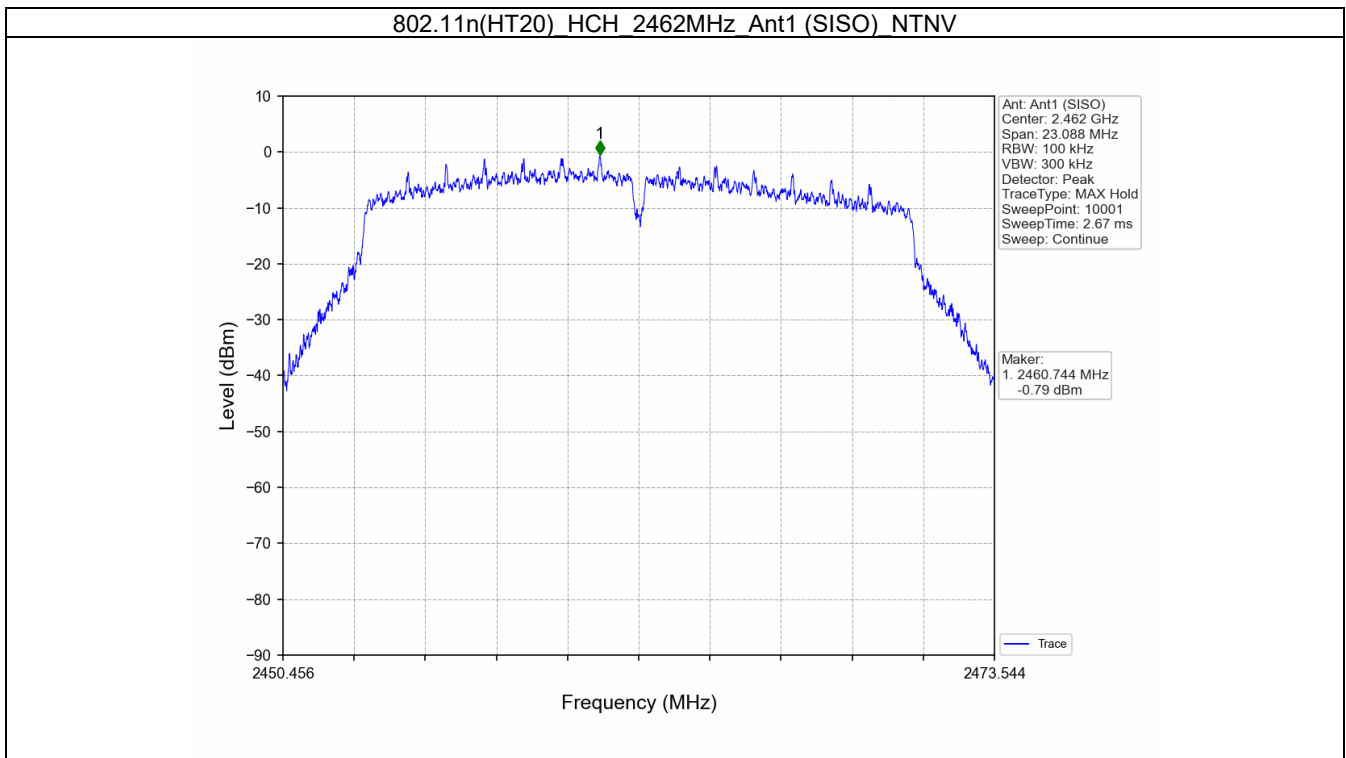
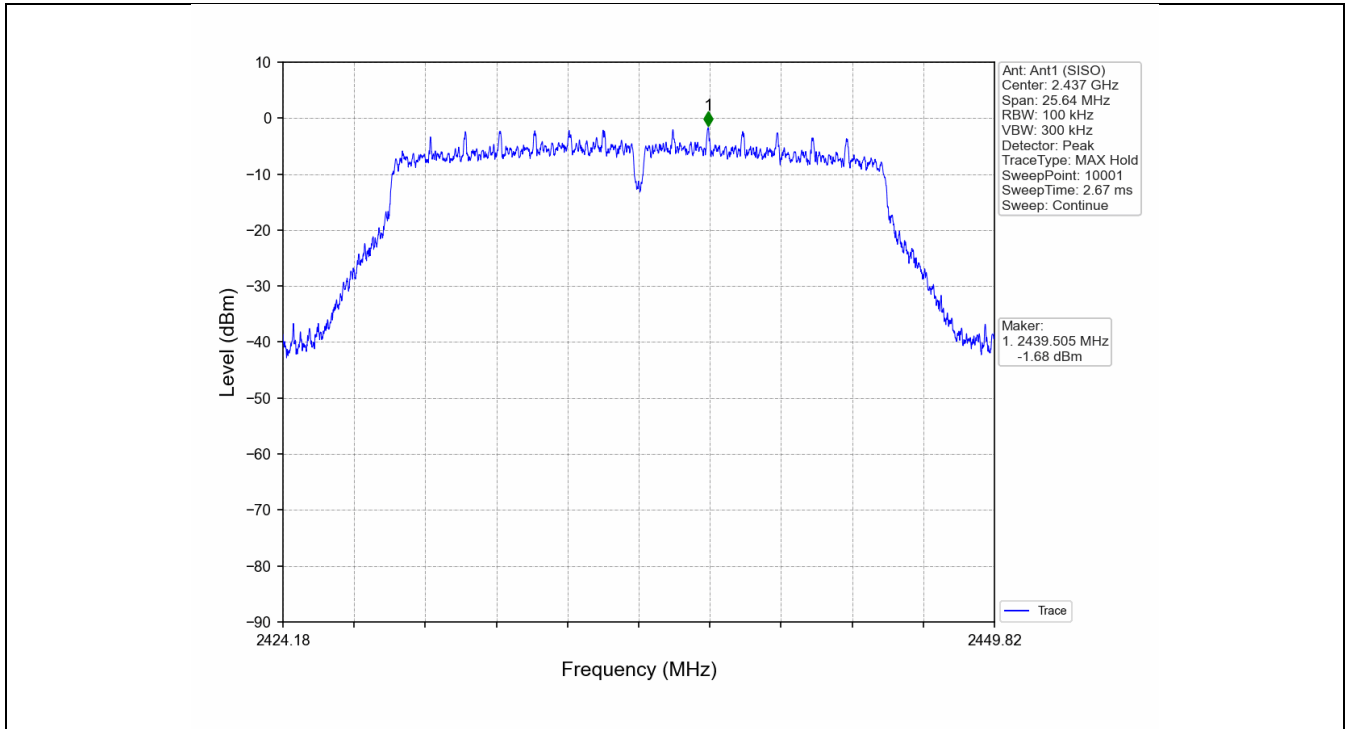
5.1.2 Test Graph











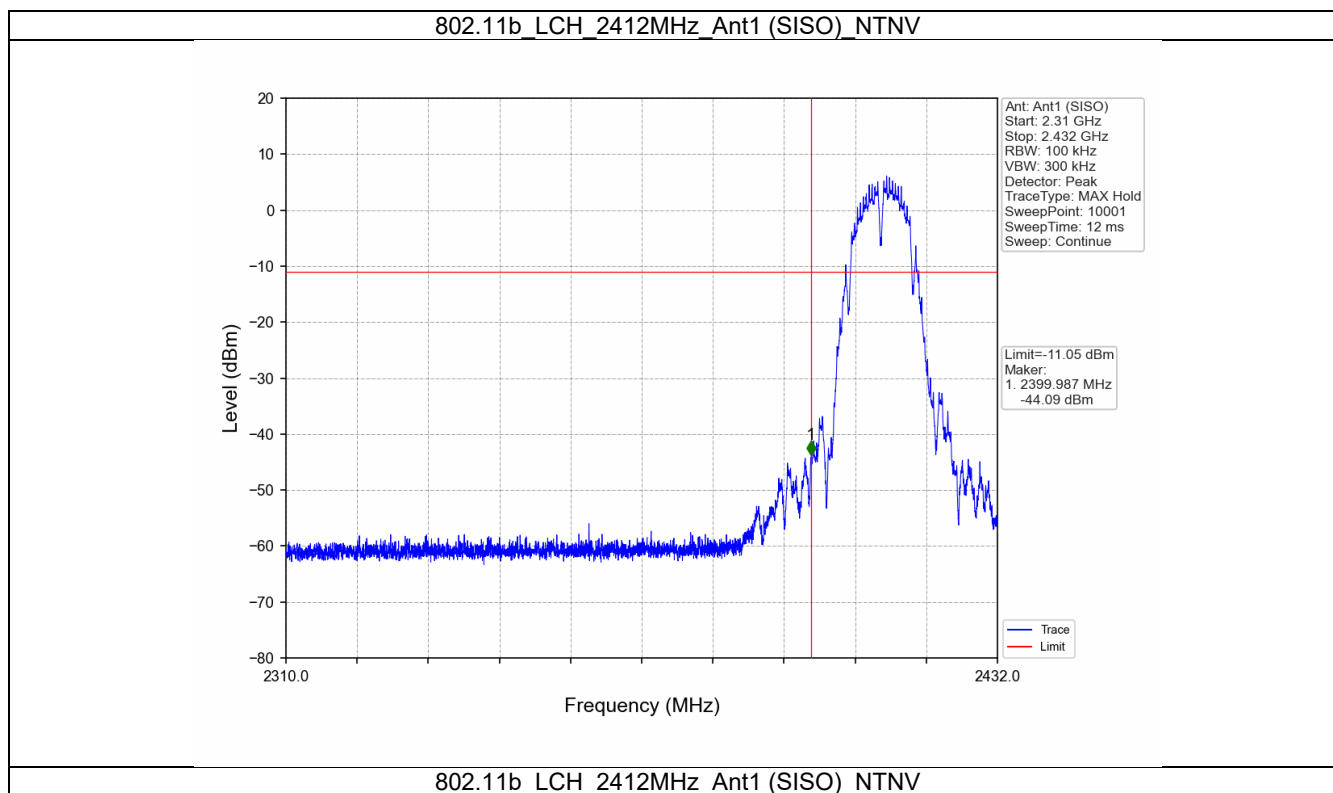
5.2 CSE

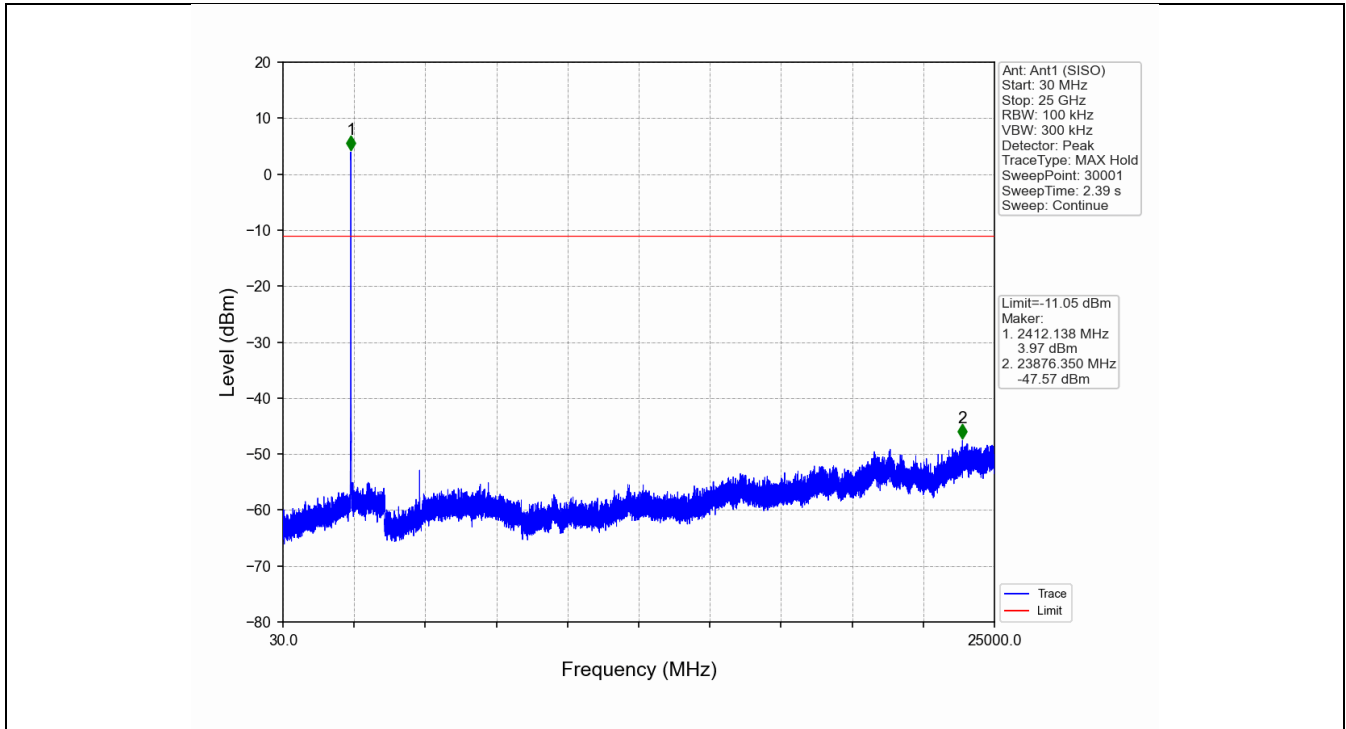
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.95	-11.05	Pass
		2437	1	8.95	-11.05	Pass
		2462	1	8.95	-11.05	Pass
802.11g	SISO	2412	1	0.02	-19.98	Pass
		2437	1	0.02	-19.98	Pass
		2462	1	0.02	-19.98	Pass
802.11n (HT20)	SISO	2412	1	-0.65	-20.65	Pass
		2437	1	-0.65	-20.65	Pass
		2462	1	-0.65	-20.65	Pass

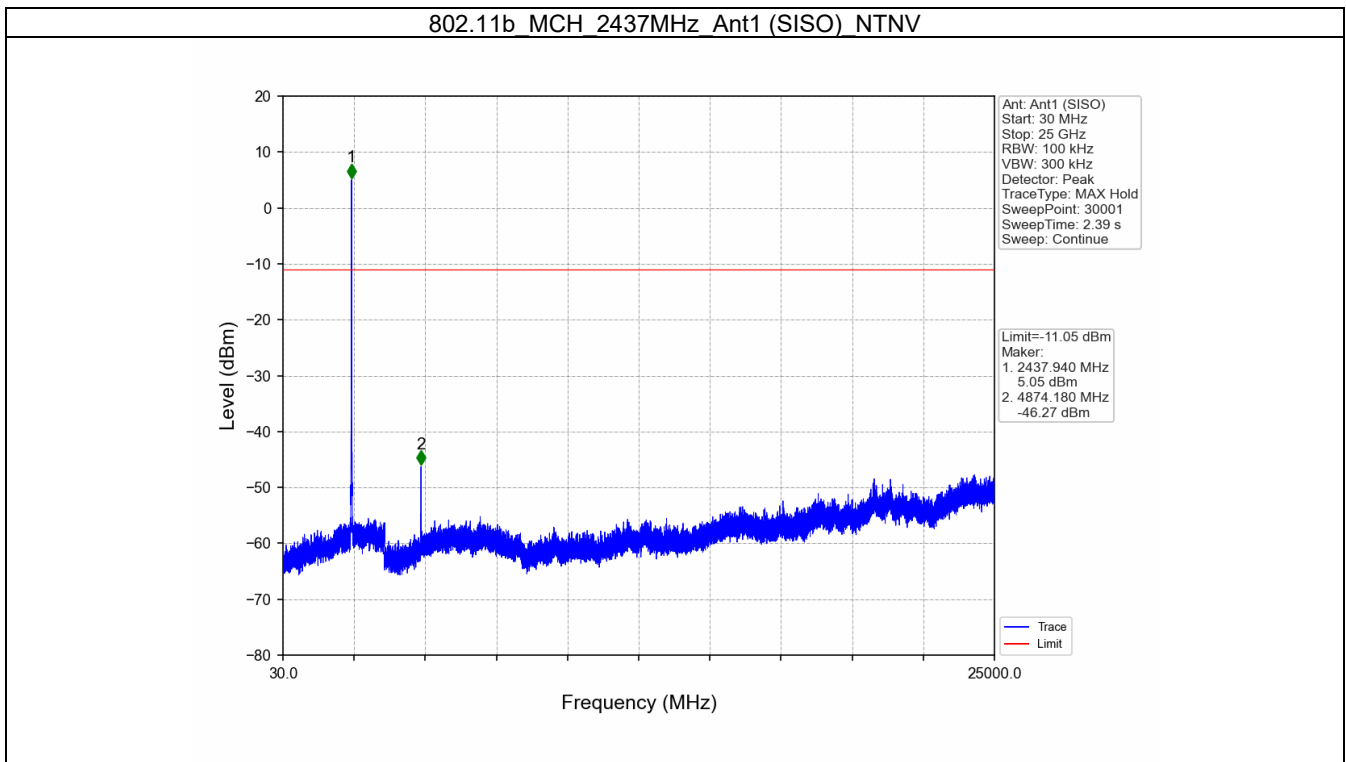
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

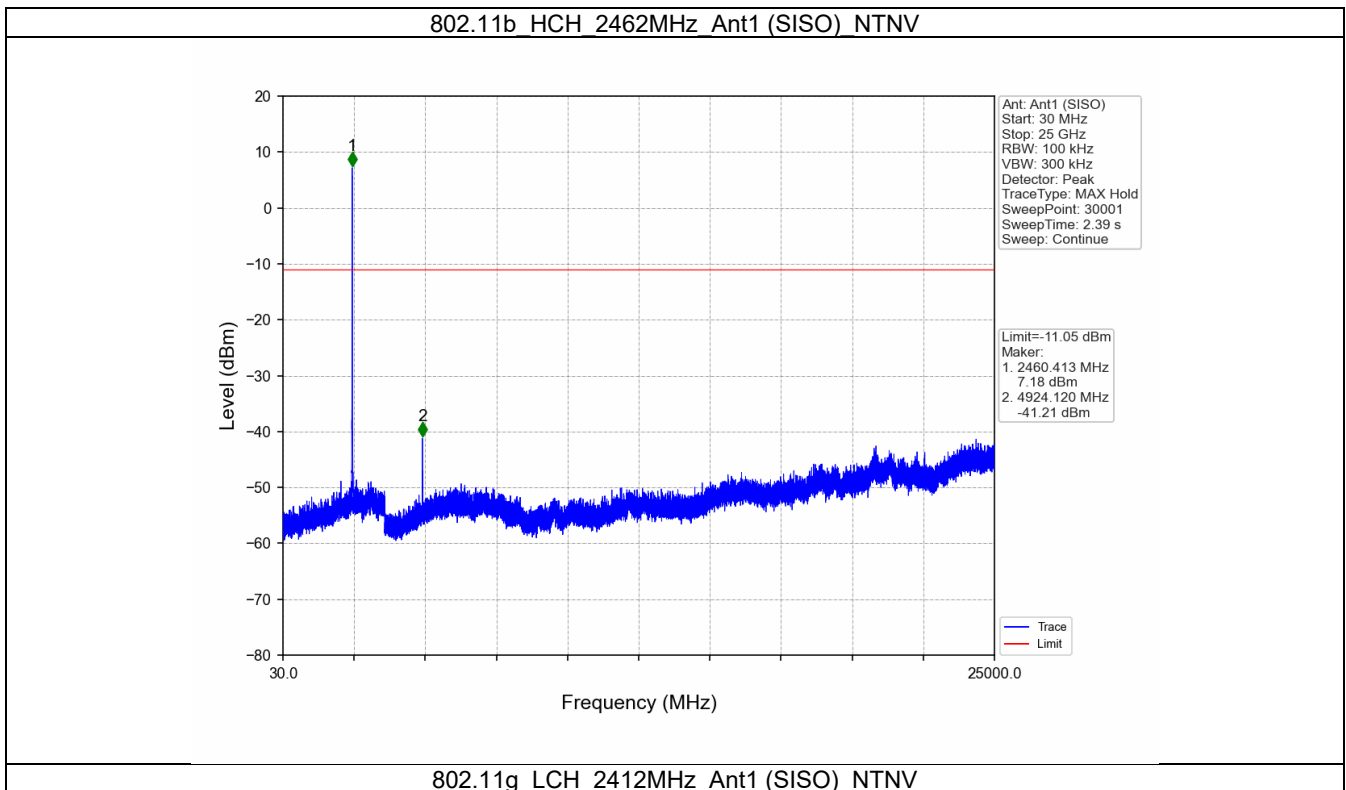
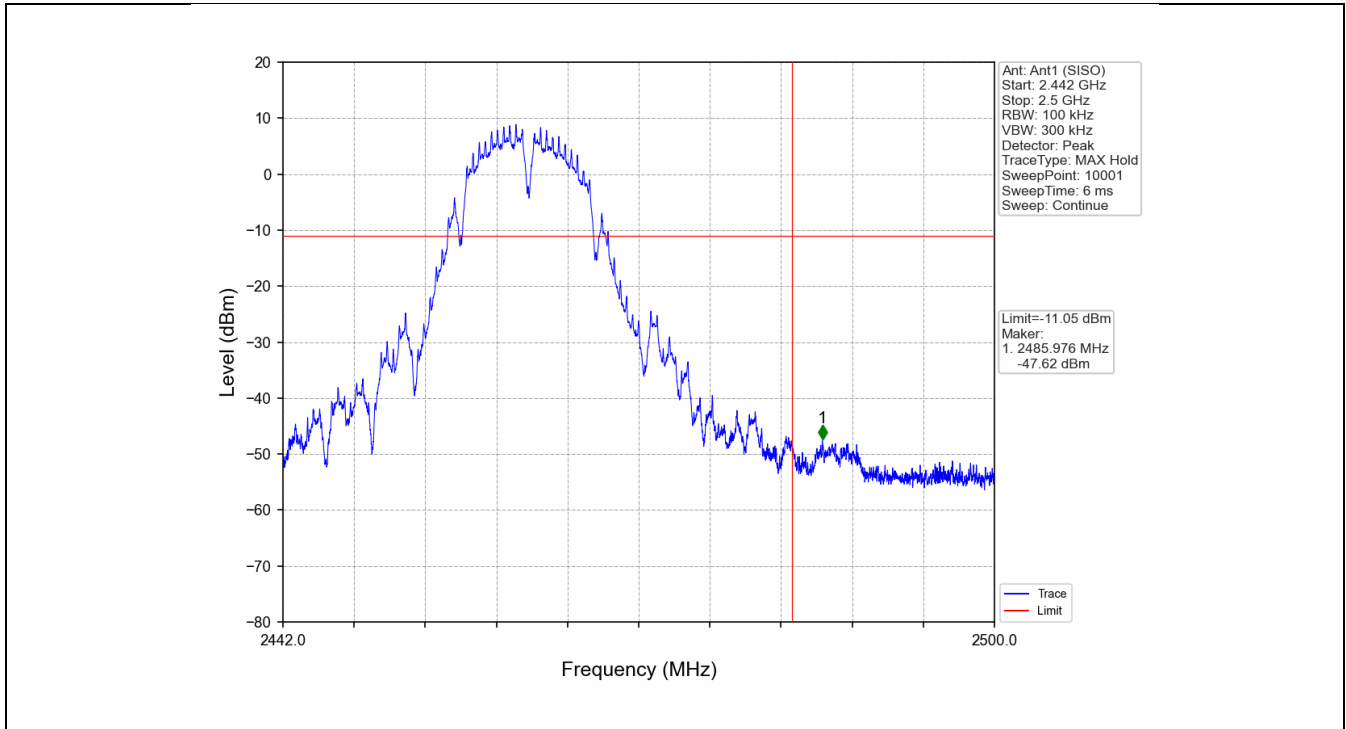


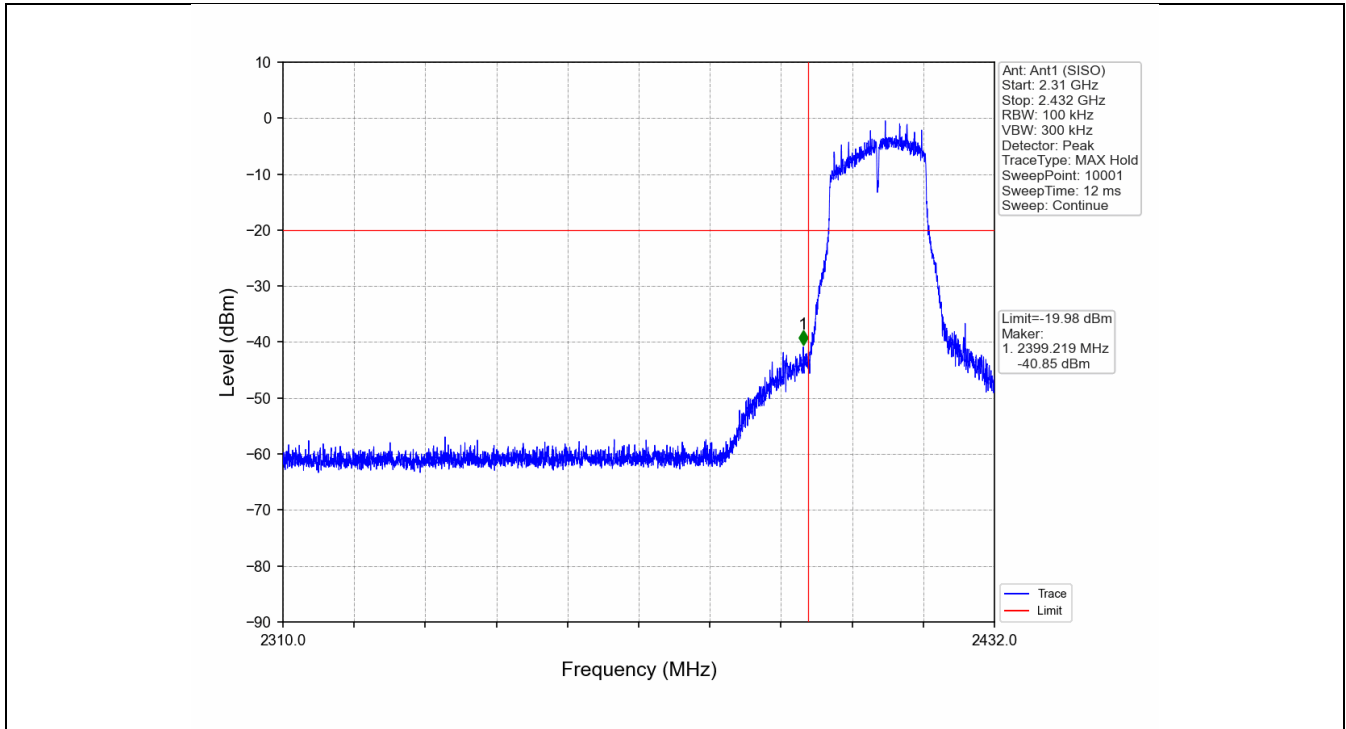


802.11b MCH 2437MHz Ant1 (SISO) NTN

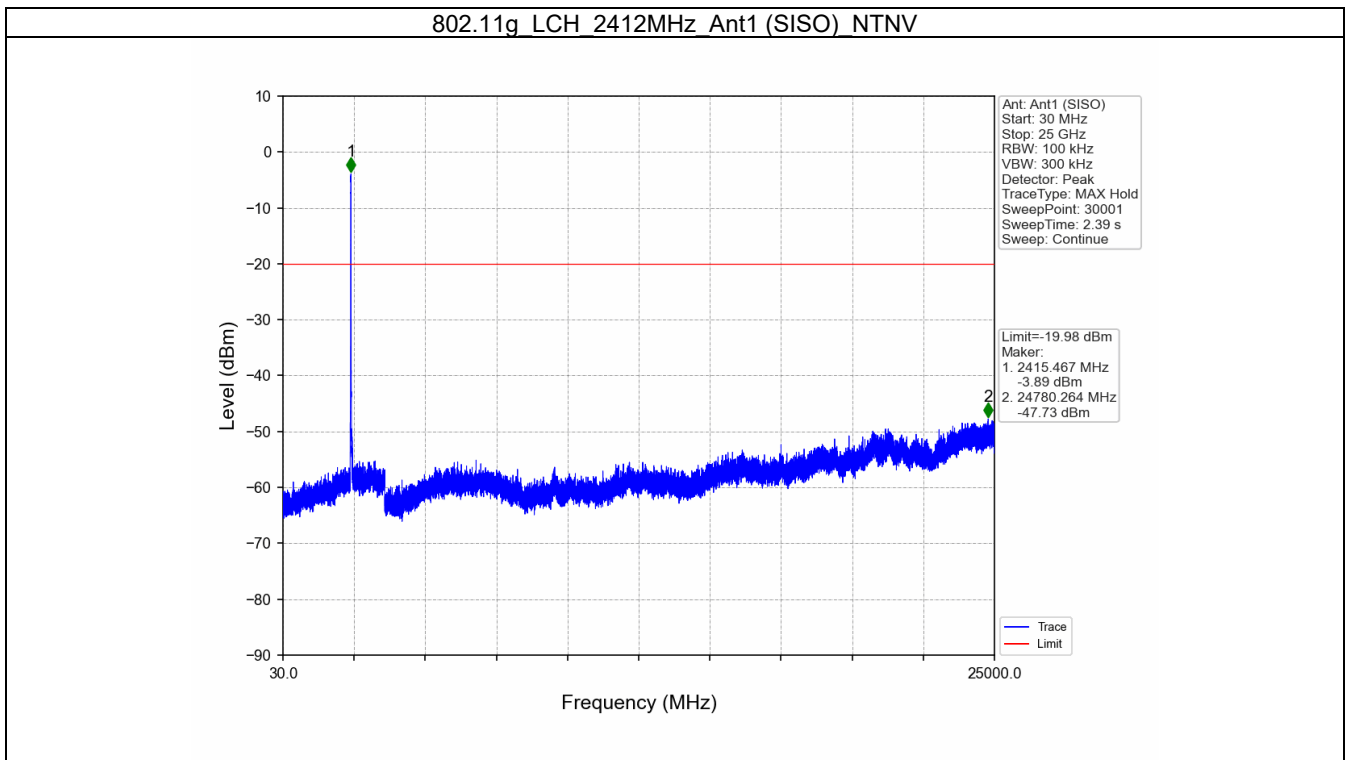


802.11b HCH 2462MHz Ant1 (SISO) NTN

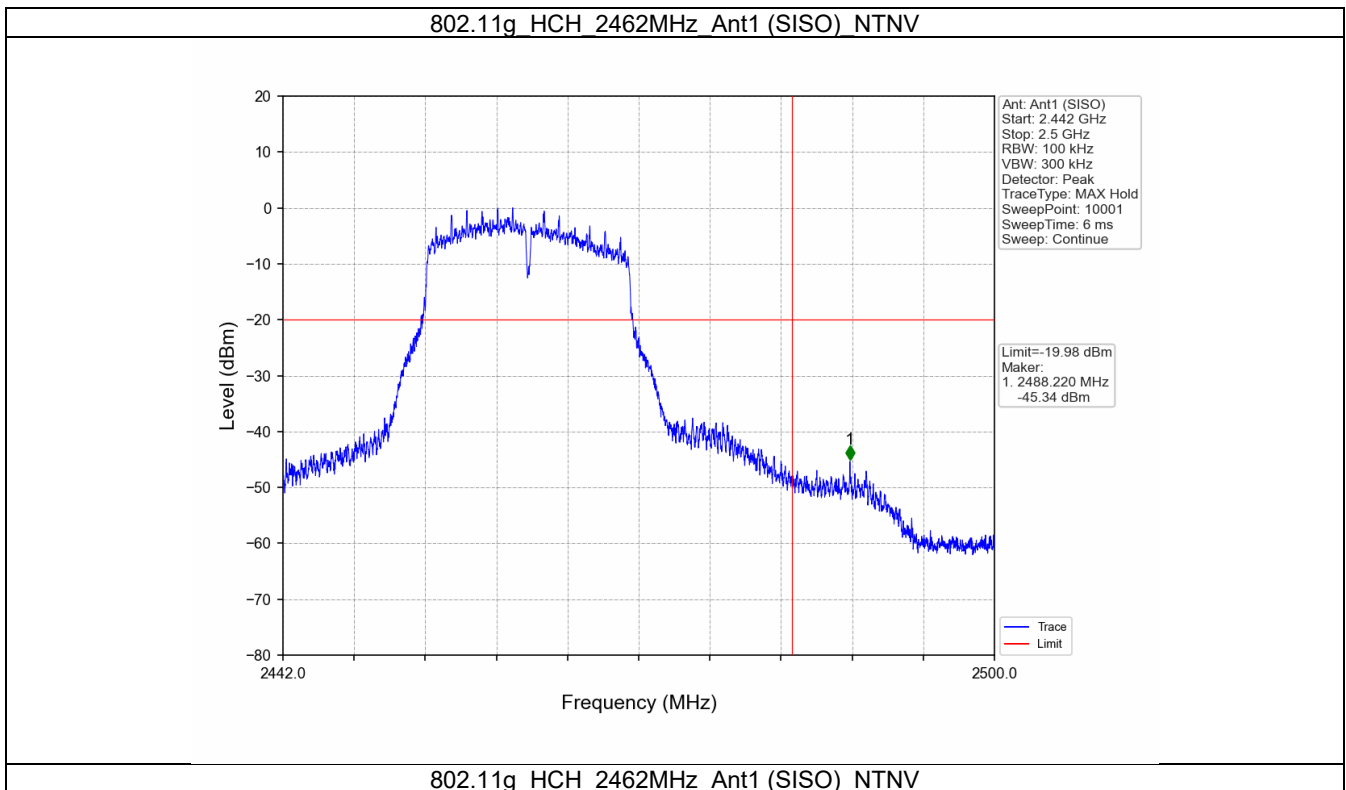
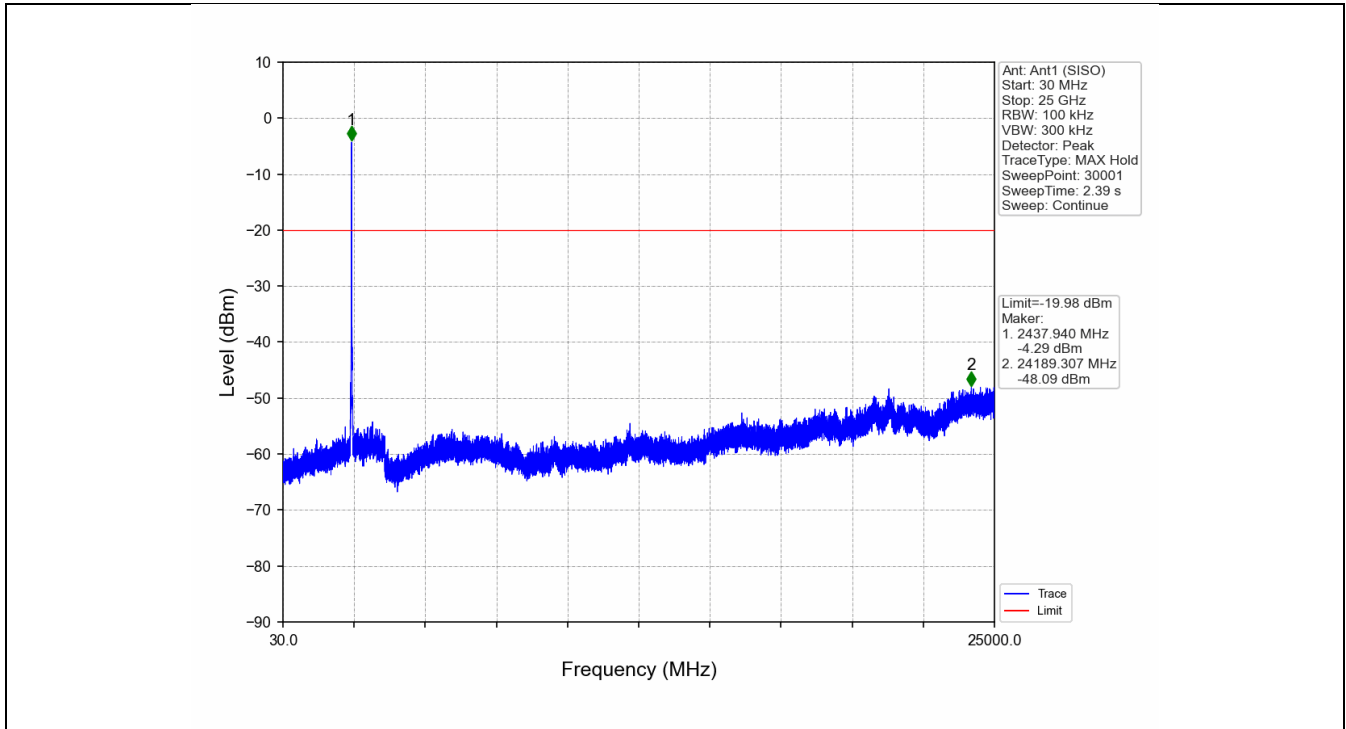


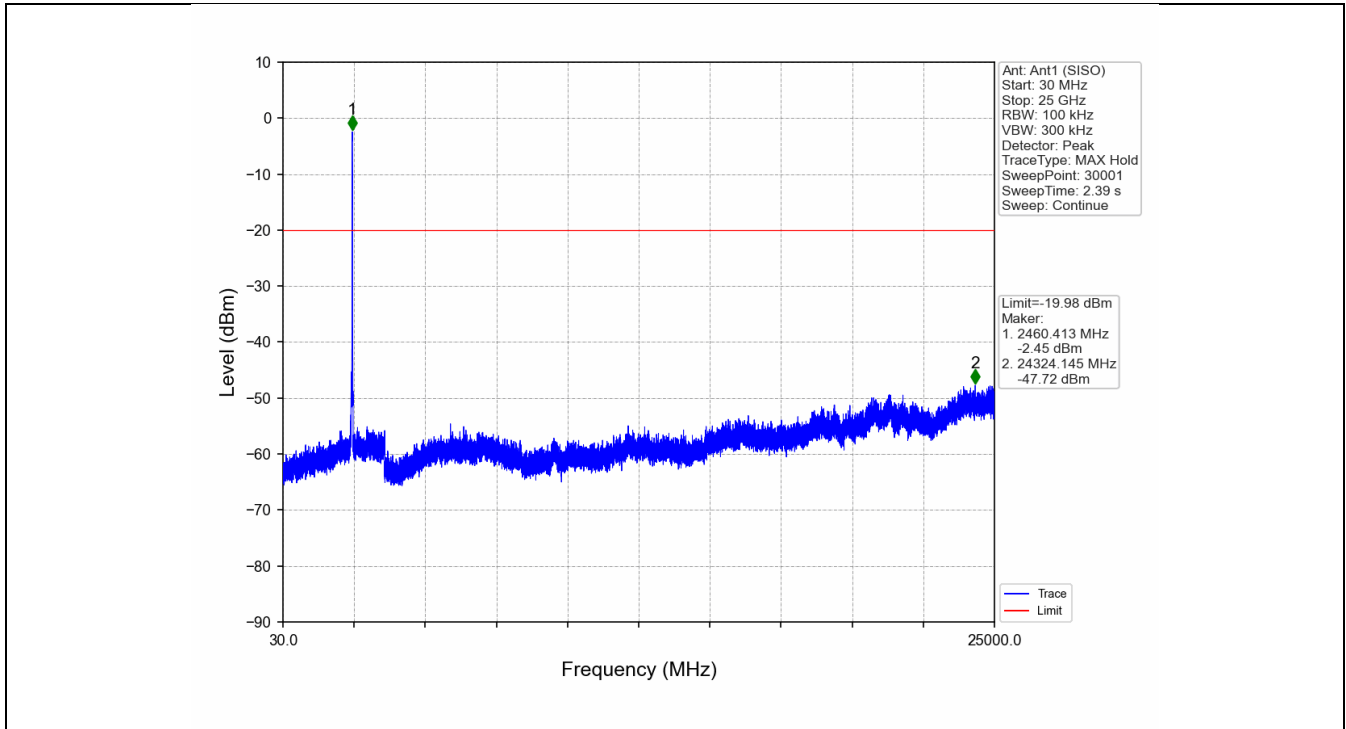


802.11g LCH 2412MHz Ant1 (SISO) NTN

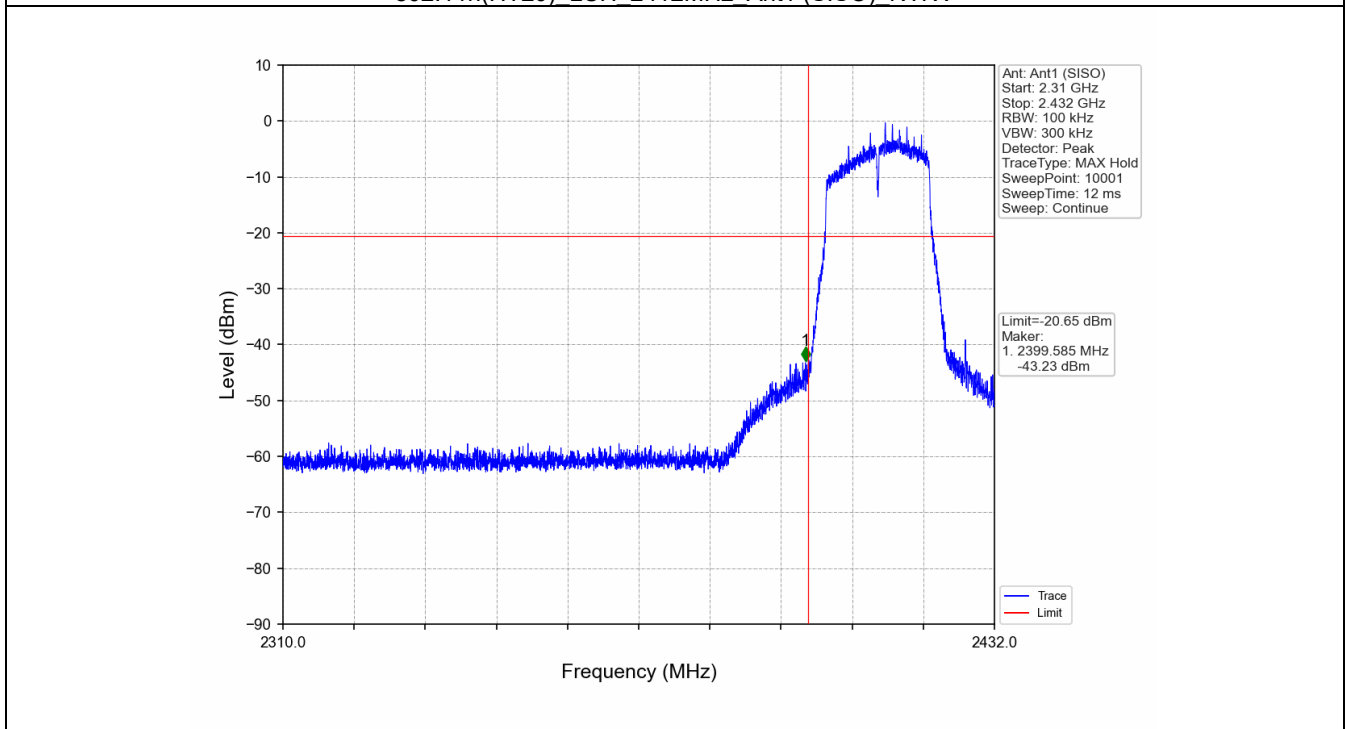


802.11g MCH 2437MHz Ant1 (SISO) NTN

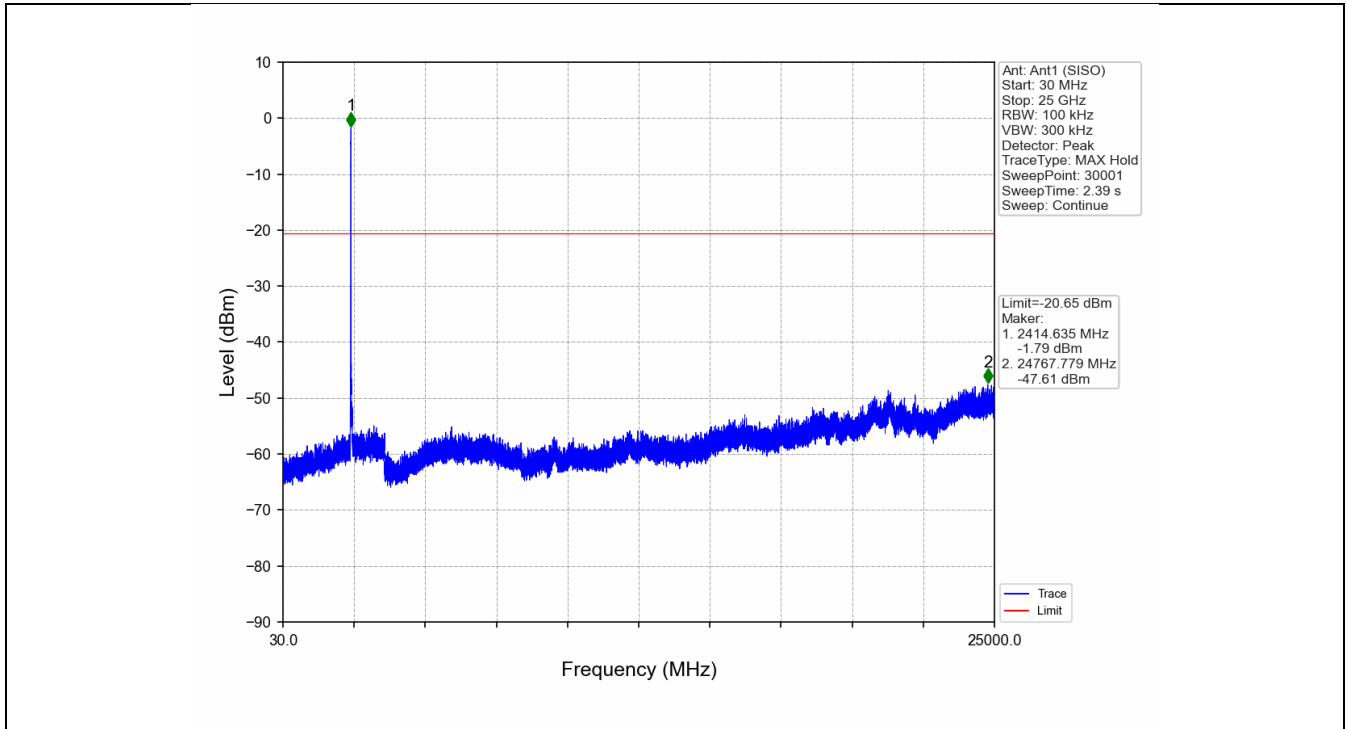




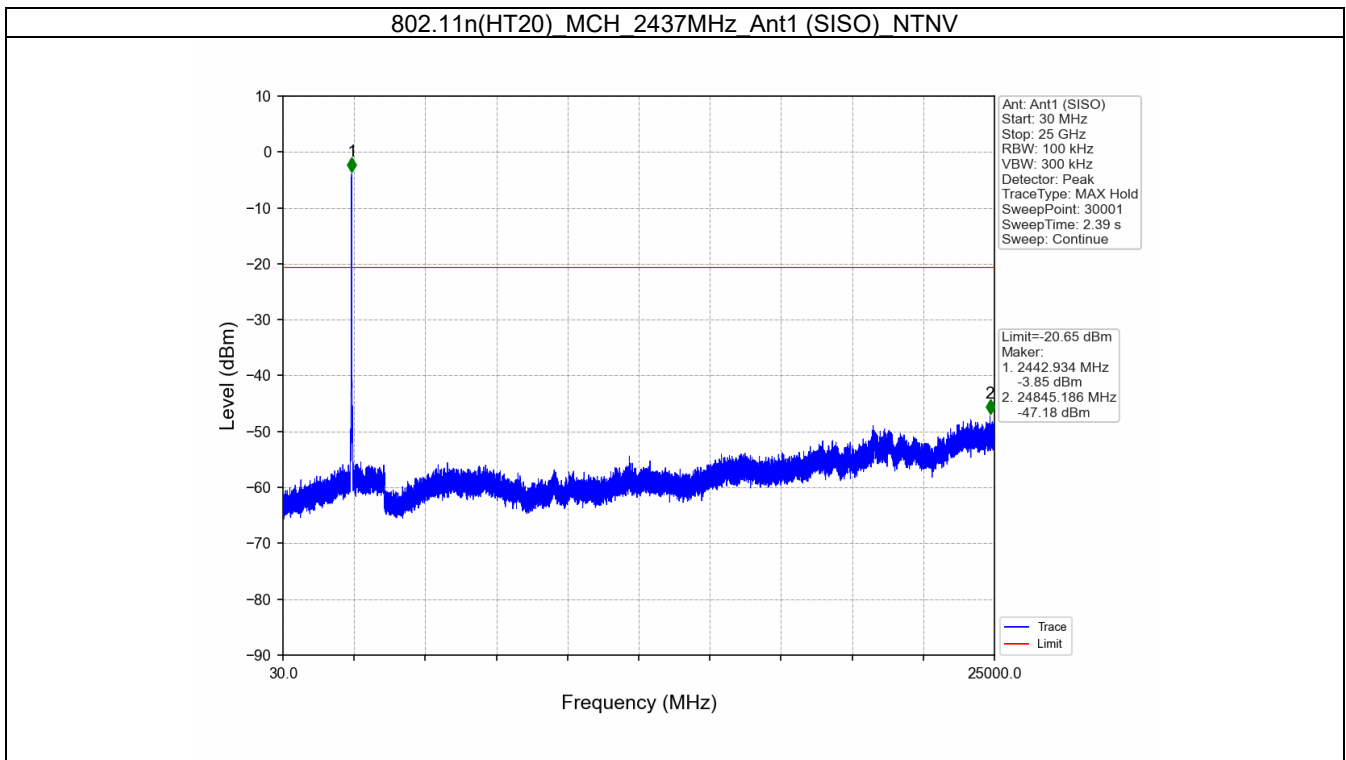
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

