

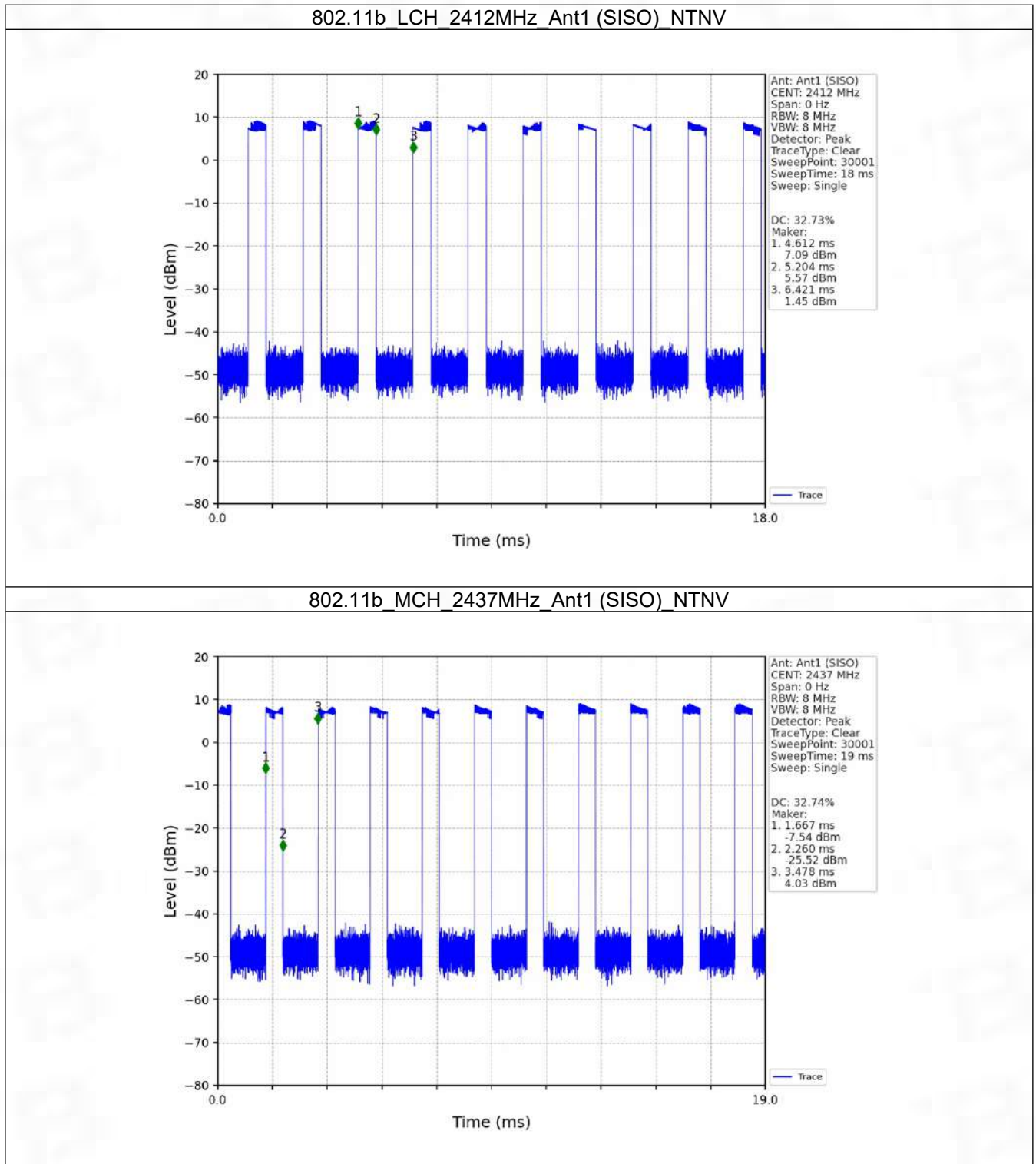
Appendix – 2.4G WIFI

1. Duty Cycle

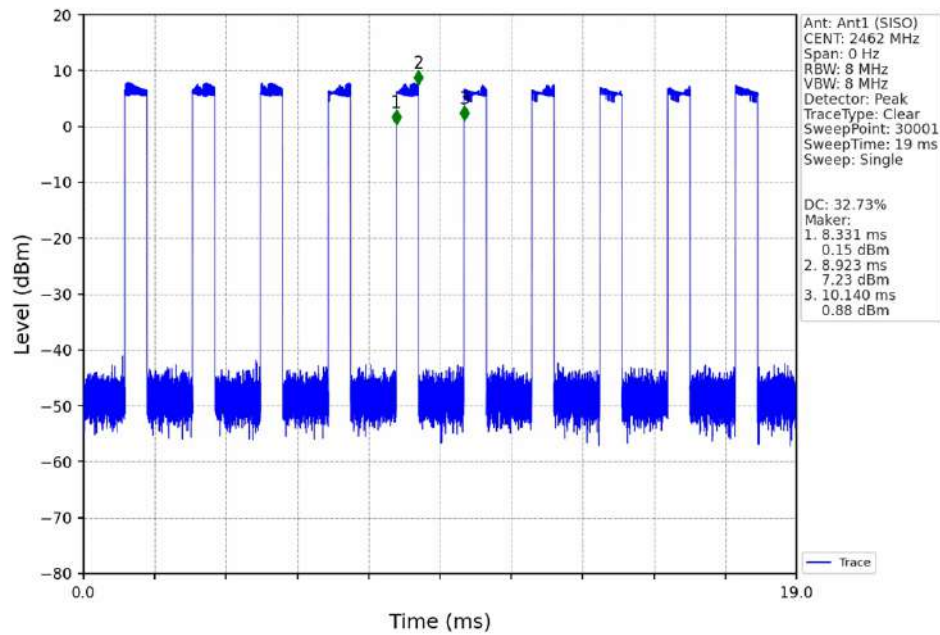
1.1 Test Result

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	0.592	1.809	32.73	4.85	0.03
		2437	0.593	1.811	32.74	4.85	0.10
		2462	0.592	1.809	32.73	4.85	0.09
802.11g	SISO	2412	0.585	1.798	32.54	4.88	0.04
		2437	0.584	1.804	32.37	4.90	0.15
		2462	0.585	1.798	32.54	4.88	0.04
802.11n (HT20)	SISO	2412	0.561	1.782	31.48	5.02	0.17
		2437	0.561	1.779	31.53	5.01	0.11
		2462	0.561	1.781	31.50	5.02	0.13

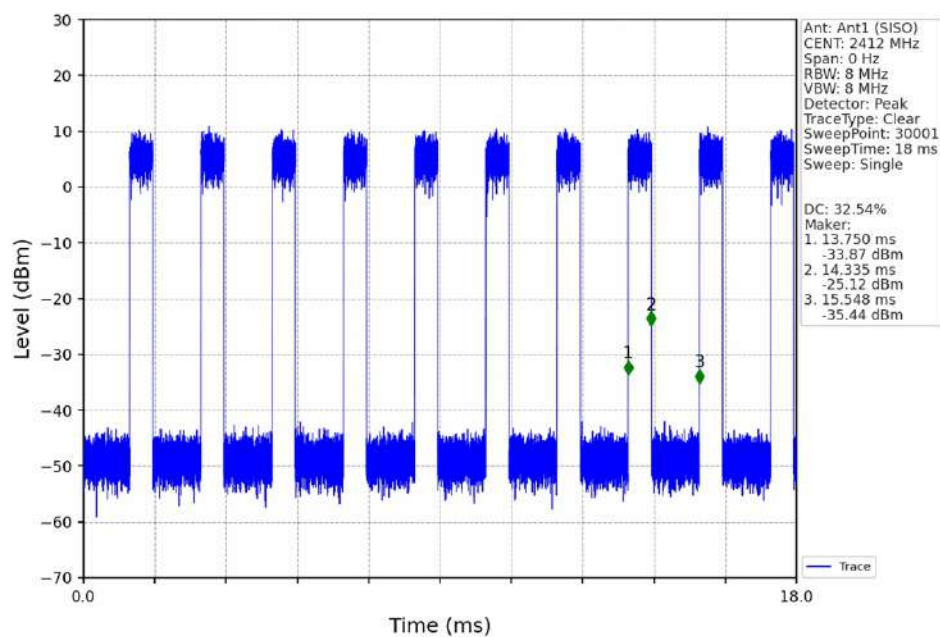
1.2 Test Graph



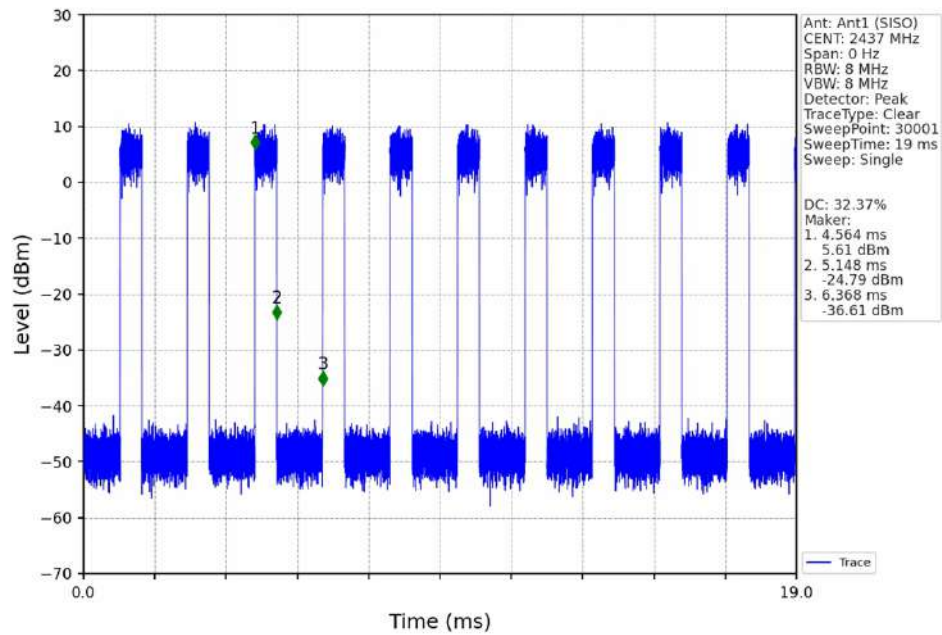
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



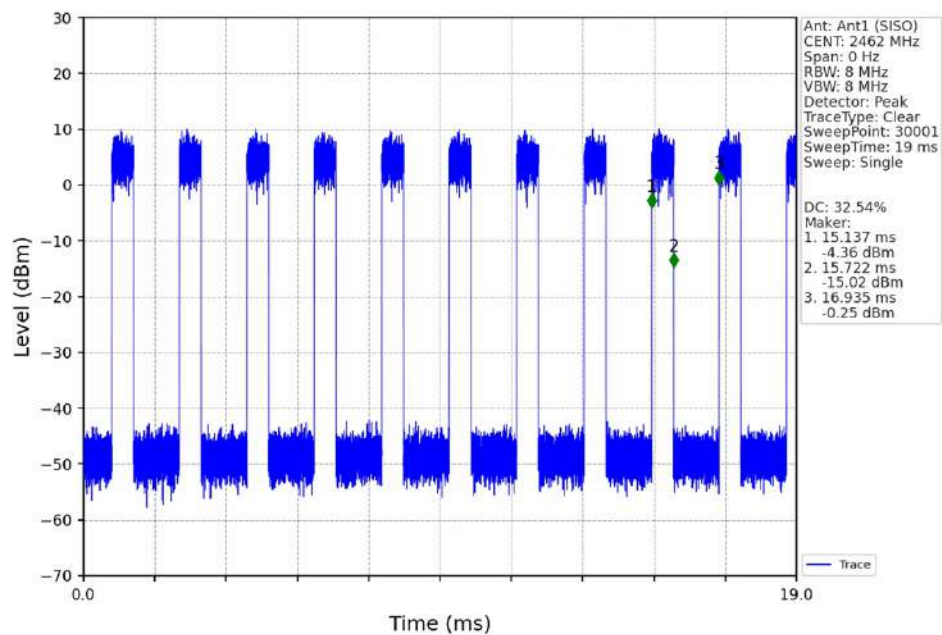
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



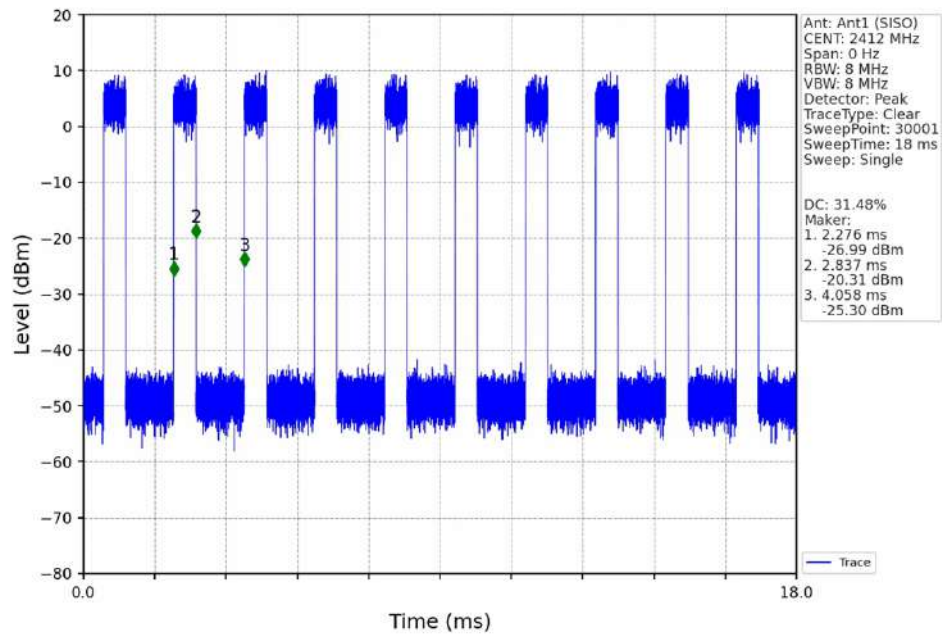
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



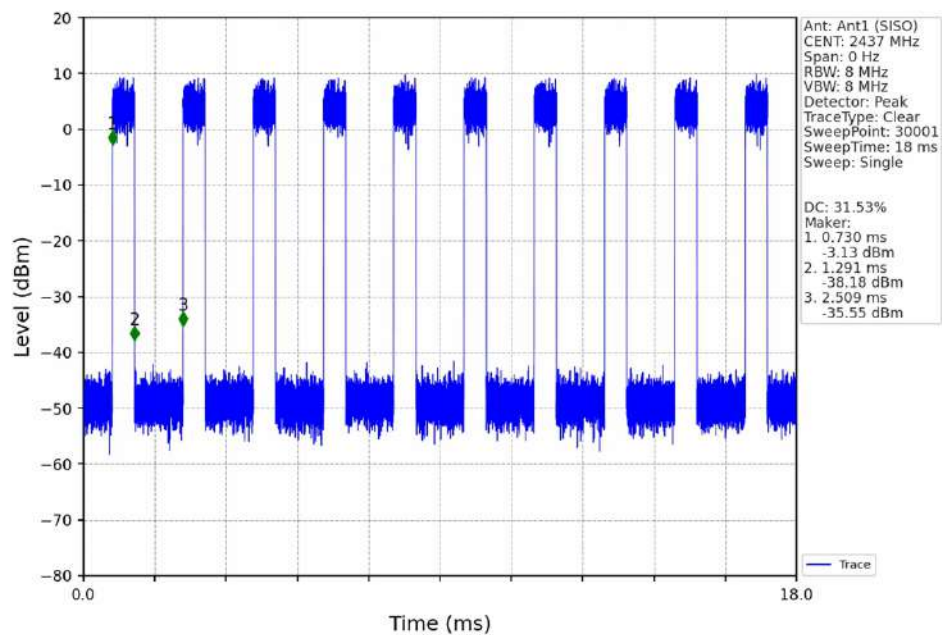
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



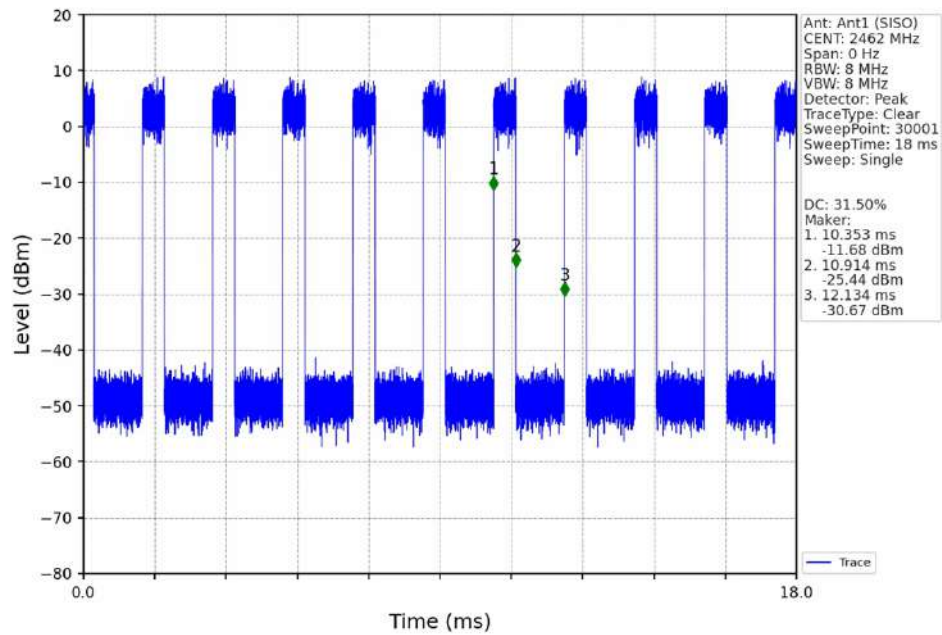
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

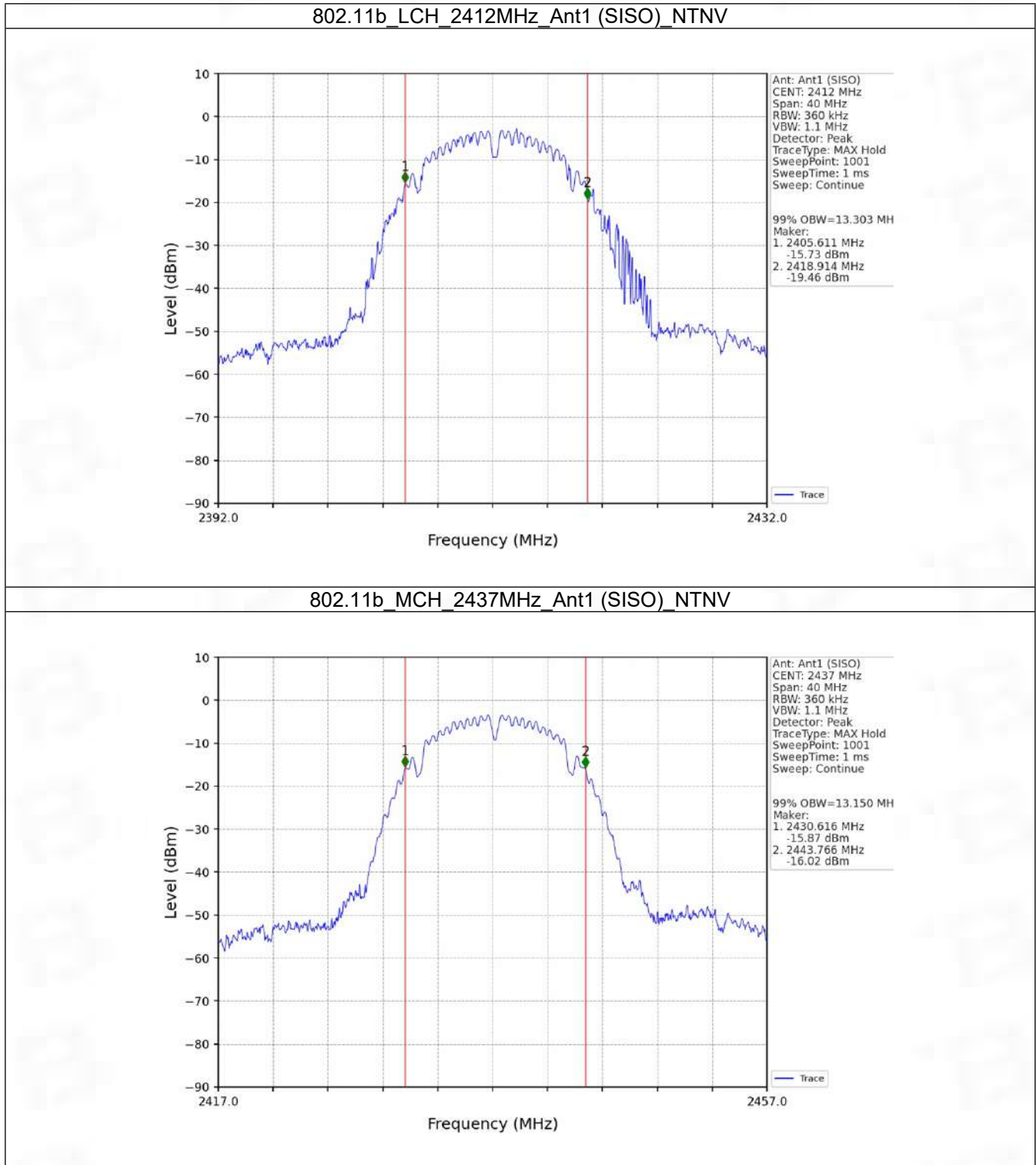
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.303	/	Pass
		2437	1	13.150	/	Pass
		2462	1	13.114	/	Pass
802.11g	SISO	2412	1	19.877	/	Pass
		2437	1	19.668	/	Pass
		2462	1	19.046	/	Pass
802.11n (HT20)	SISO	2412	1	20.189	/	Pass
		2437	1	20.444	/	Pass
		2462	1	19.460	/	Pass

2.1.2 6dB BW

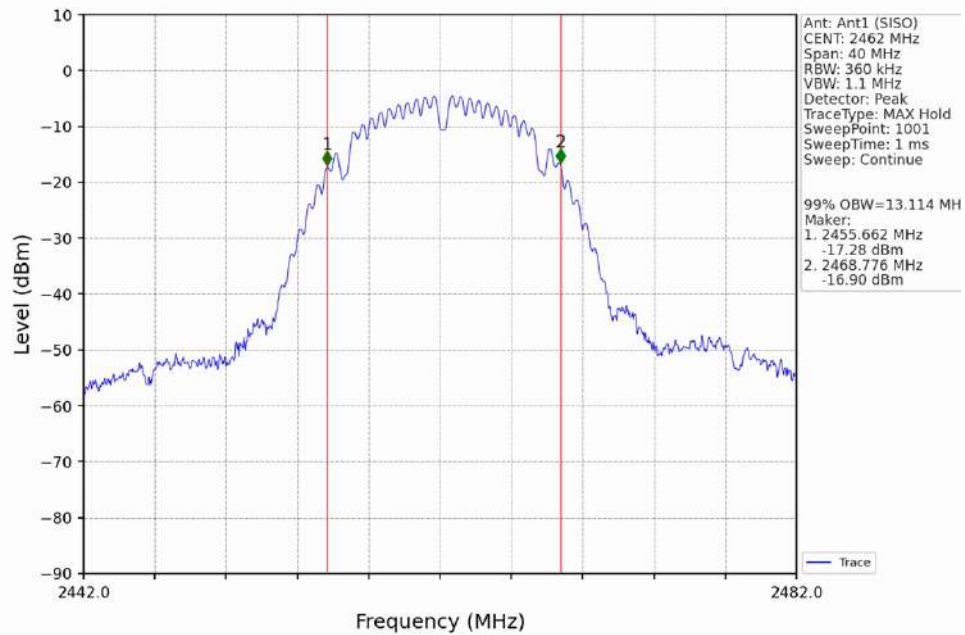
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.261	≥ 0.5	Pass
		2437	1	10.132	≥ 0.5	Pass
		2462	1	9.665	≥ 0.5	Pass
802.11g	SISO	2412	1	17.245	≥ 0.5	Pass
		2437	1	18.253	≥ 0.5	Pass
		2462	1	17.312	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	18.512	≥ 0.5	Pass
		2437	1	18.697	≥ 0.5	Pass
		2462	1	18.771	≥ 0.5	Pass

2.2 Test Graph

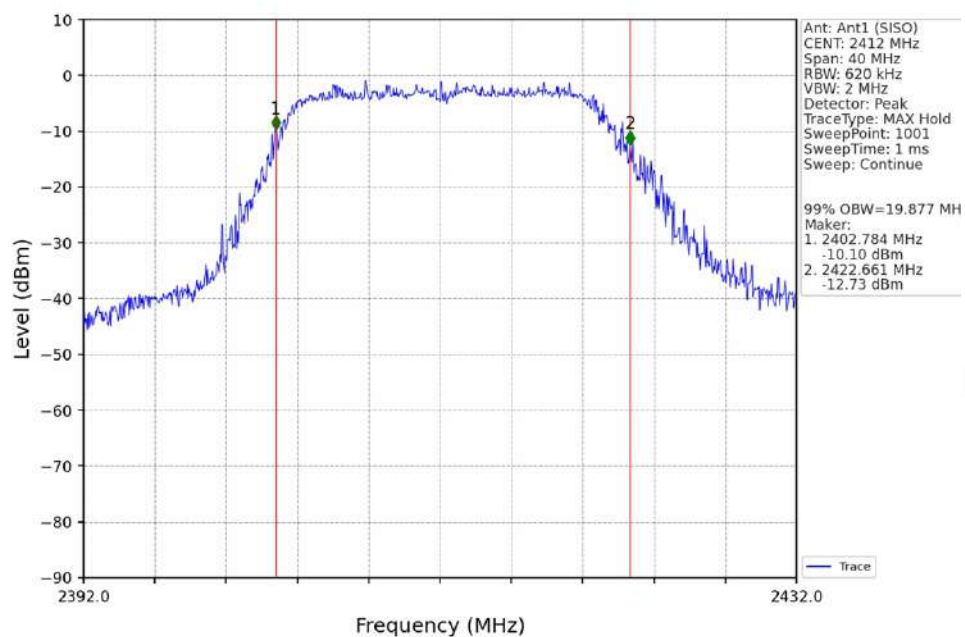
2.2.1 OBW



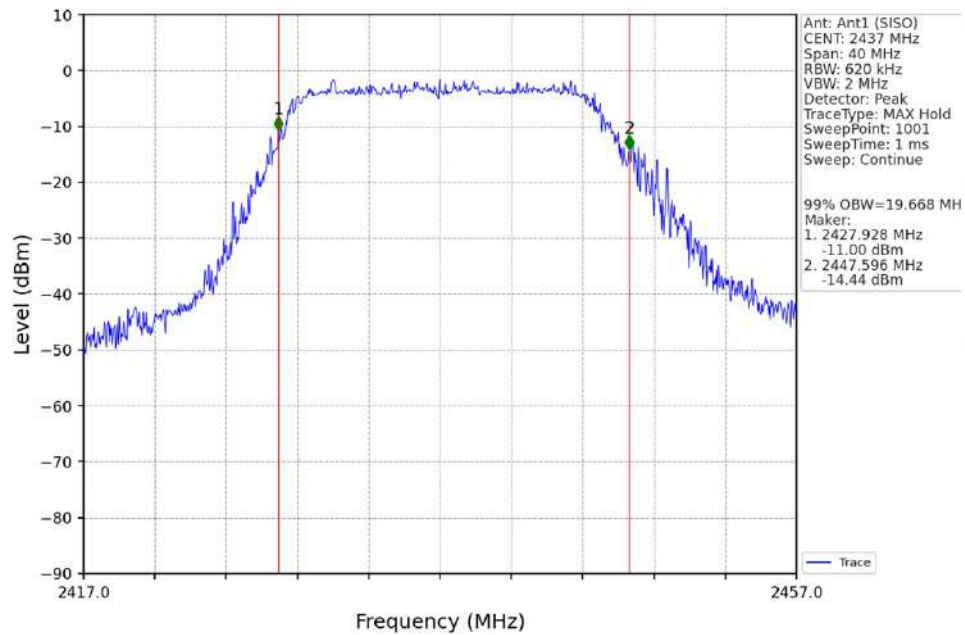
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



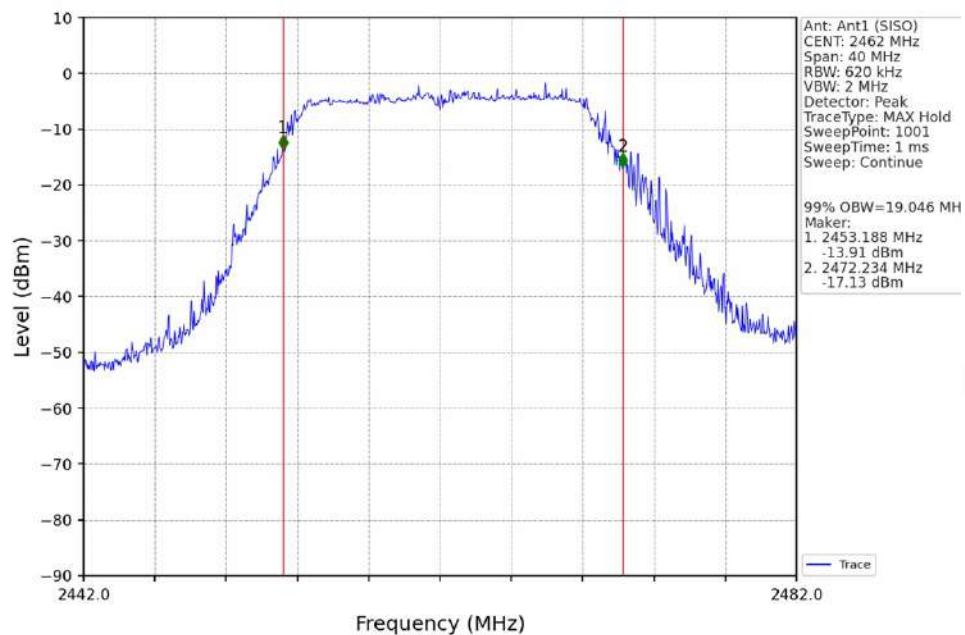
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



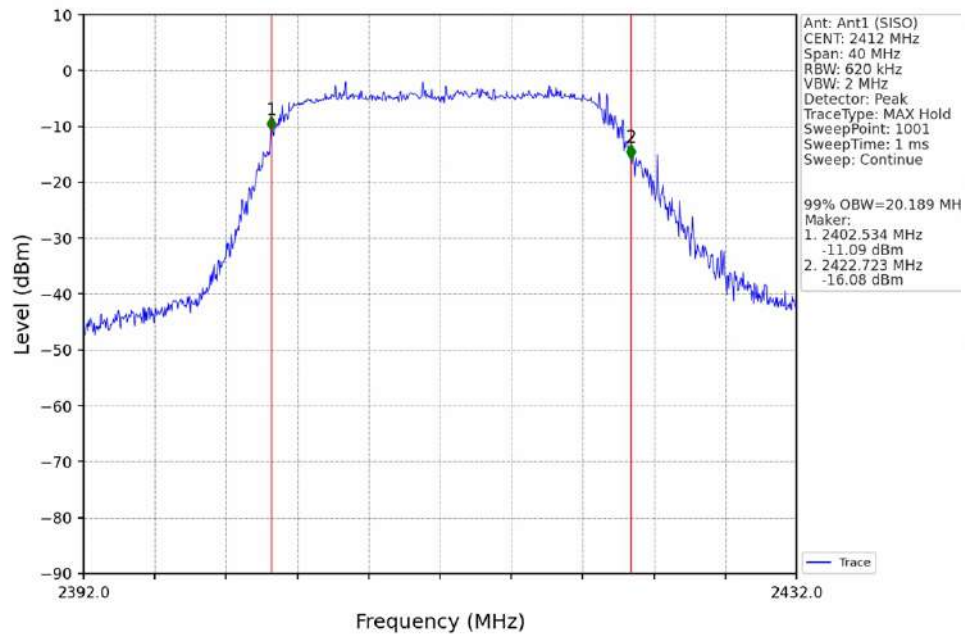
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



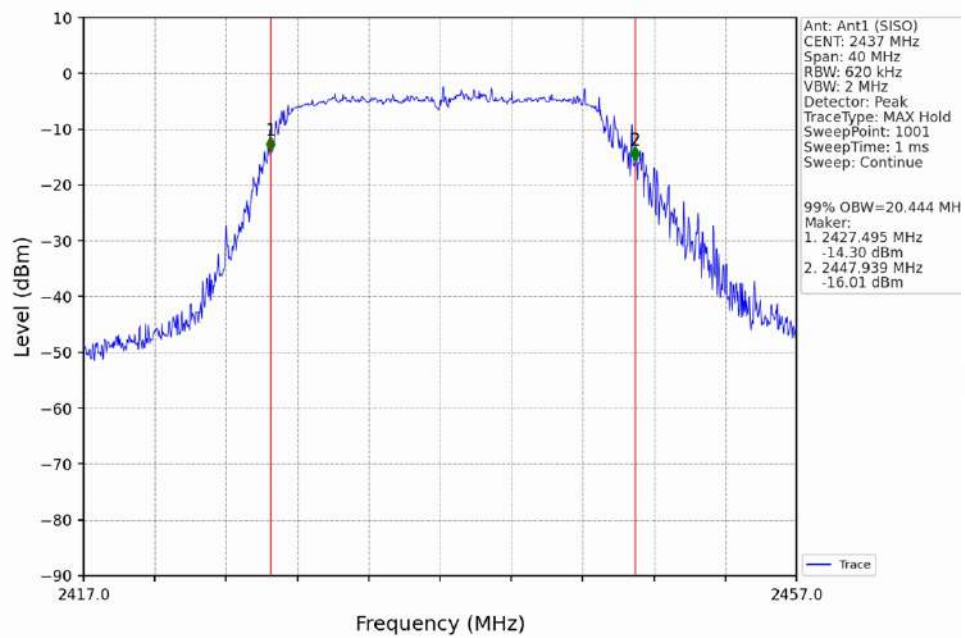
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



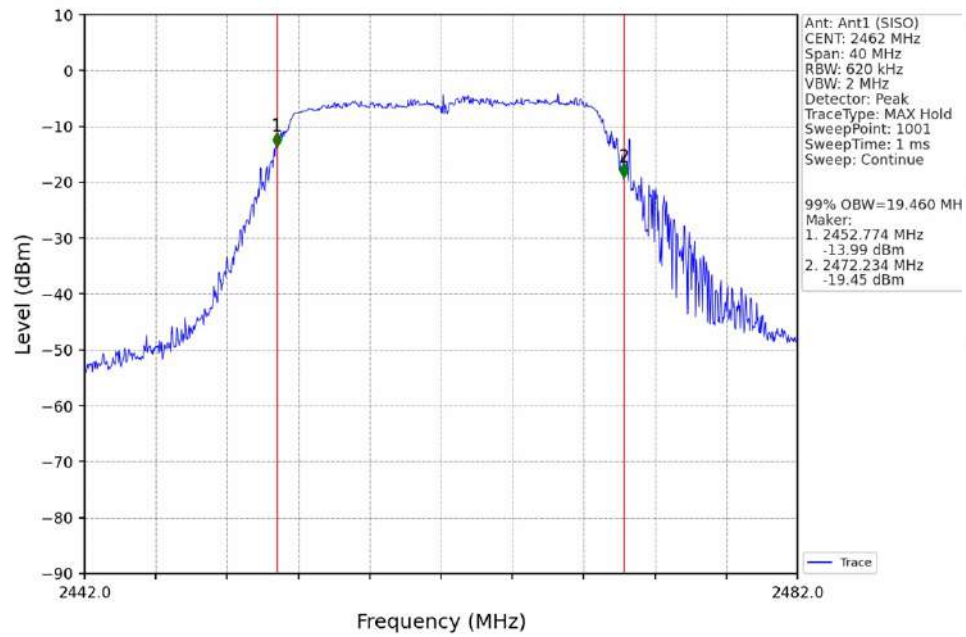
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



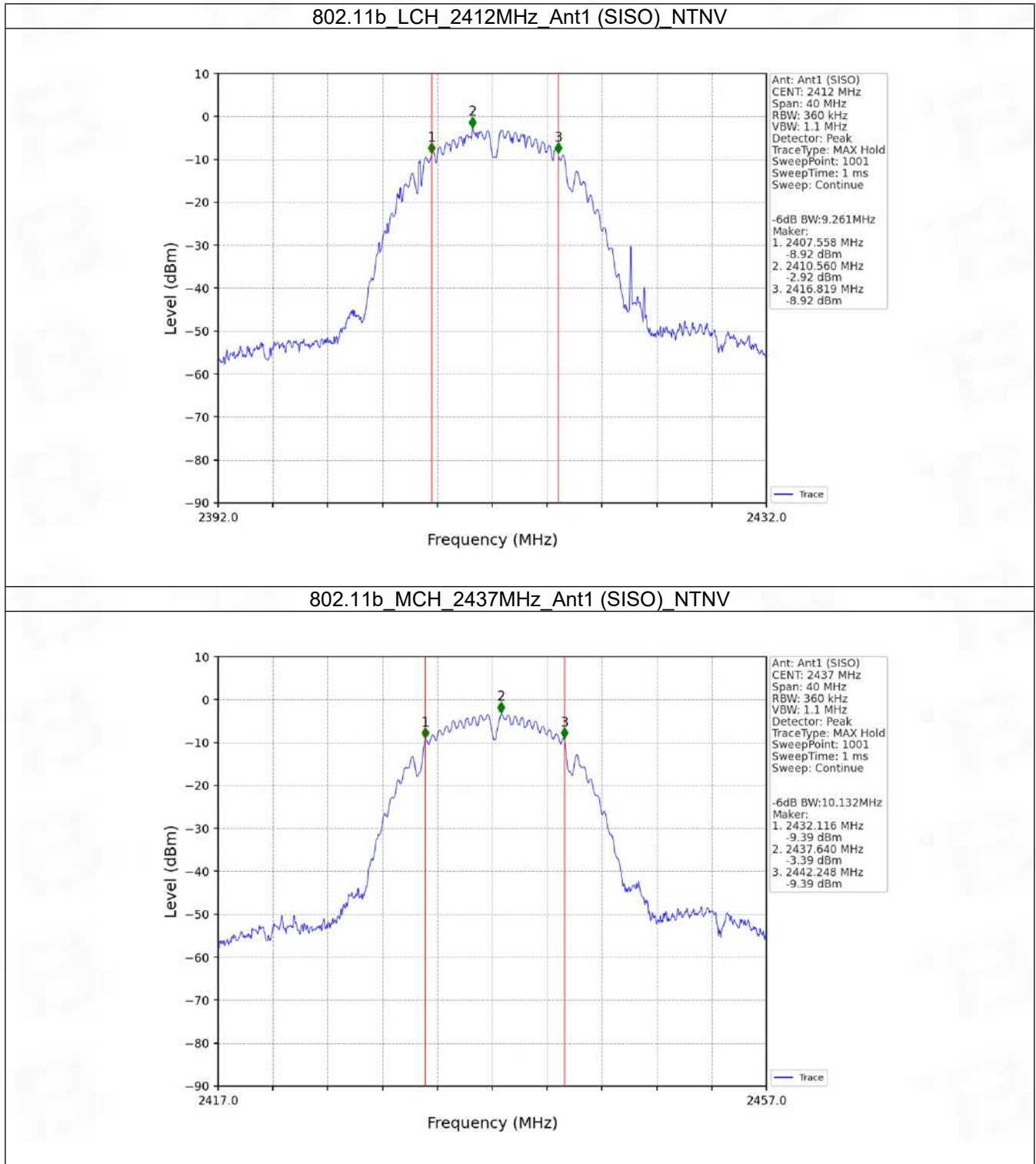
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



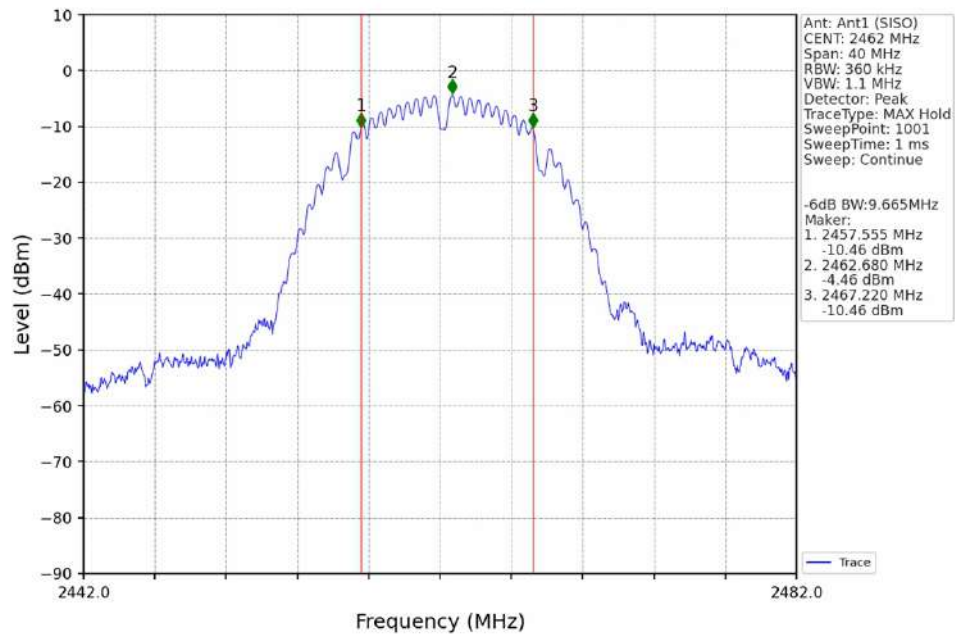
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



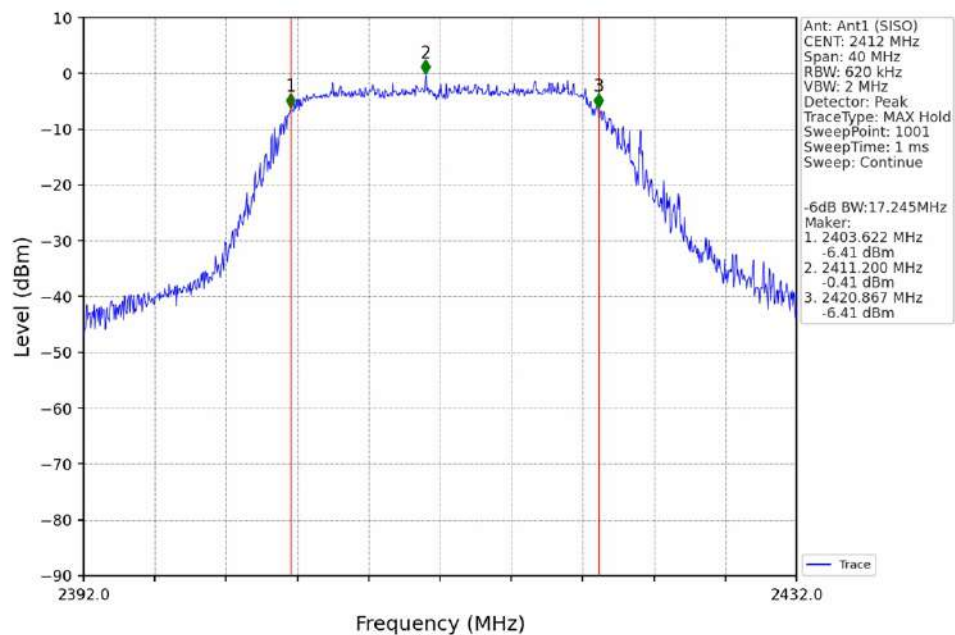
2.2.2 6dB BW



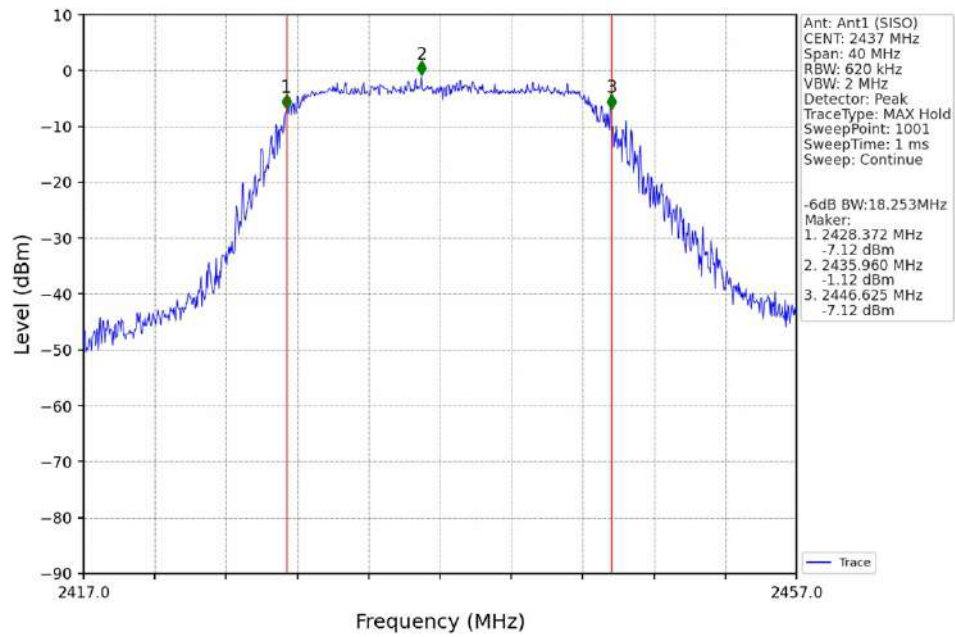
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



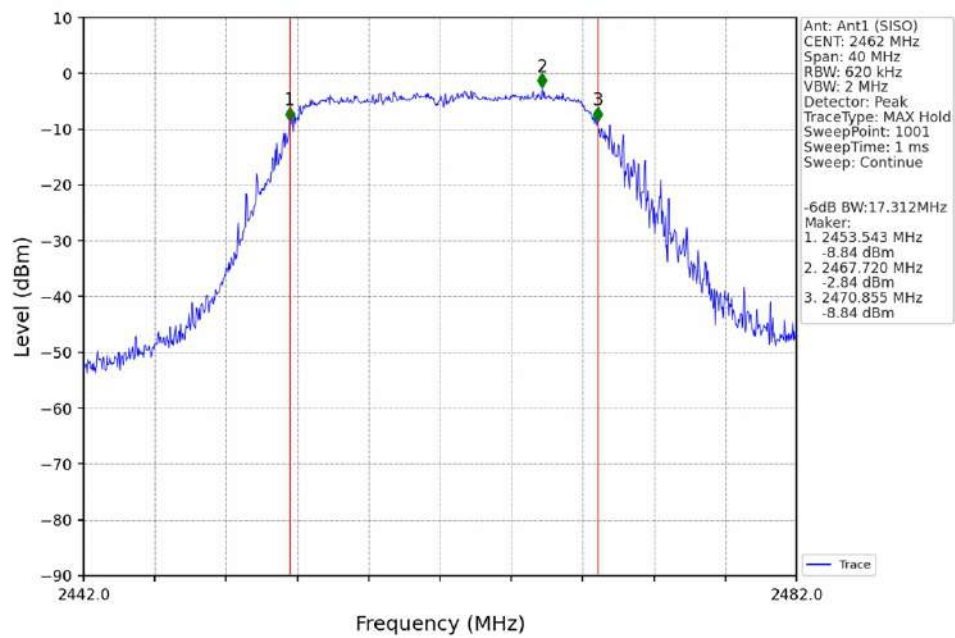
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



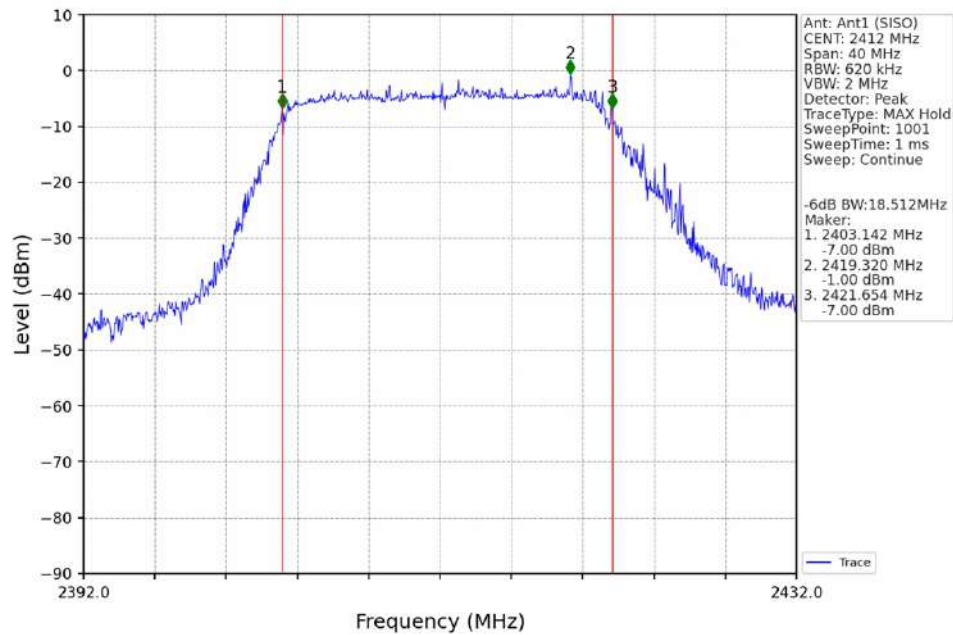
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



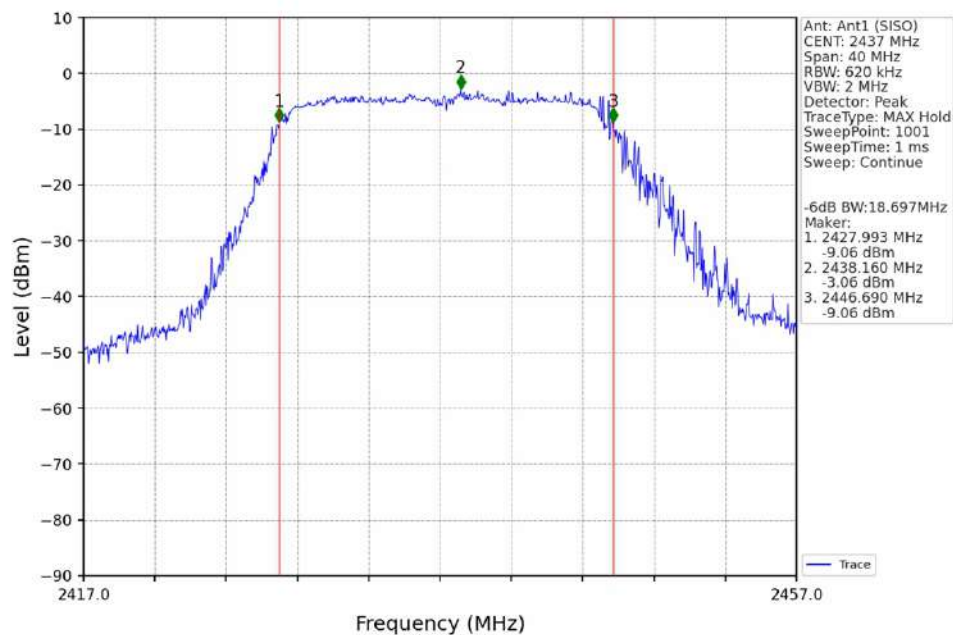
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



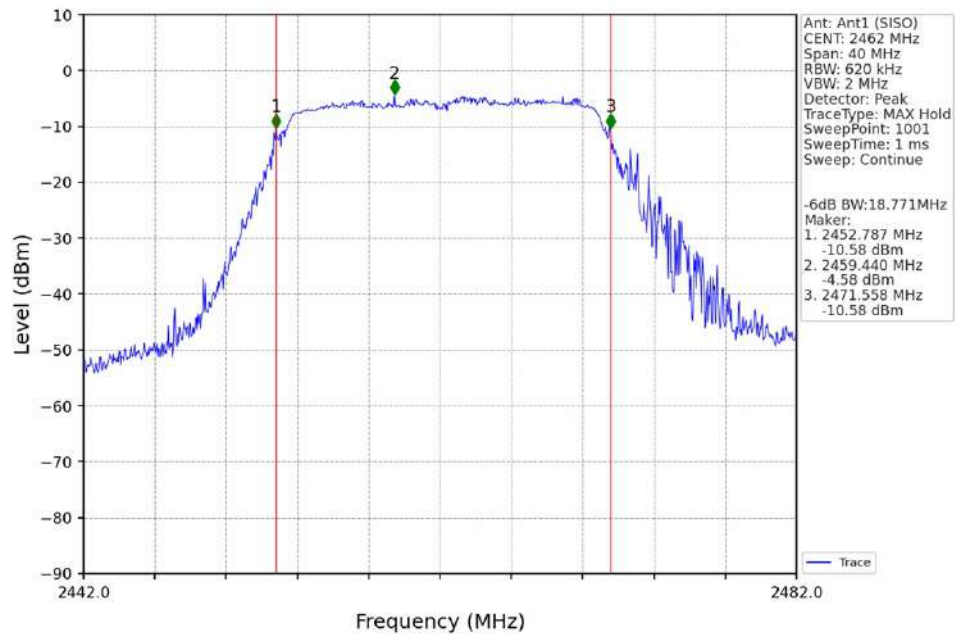
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

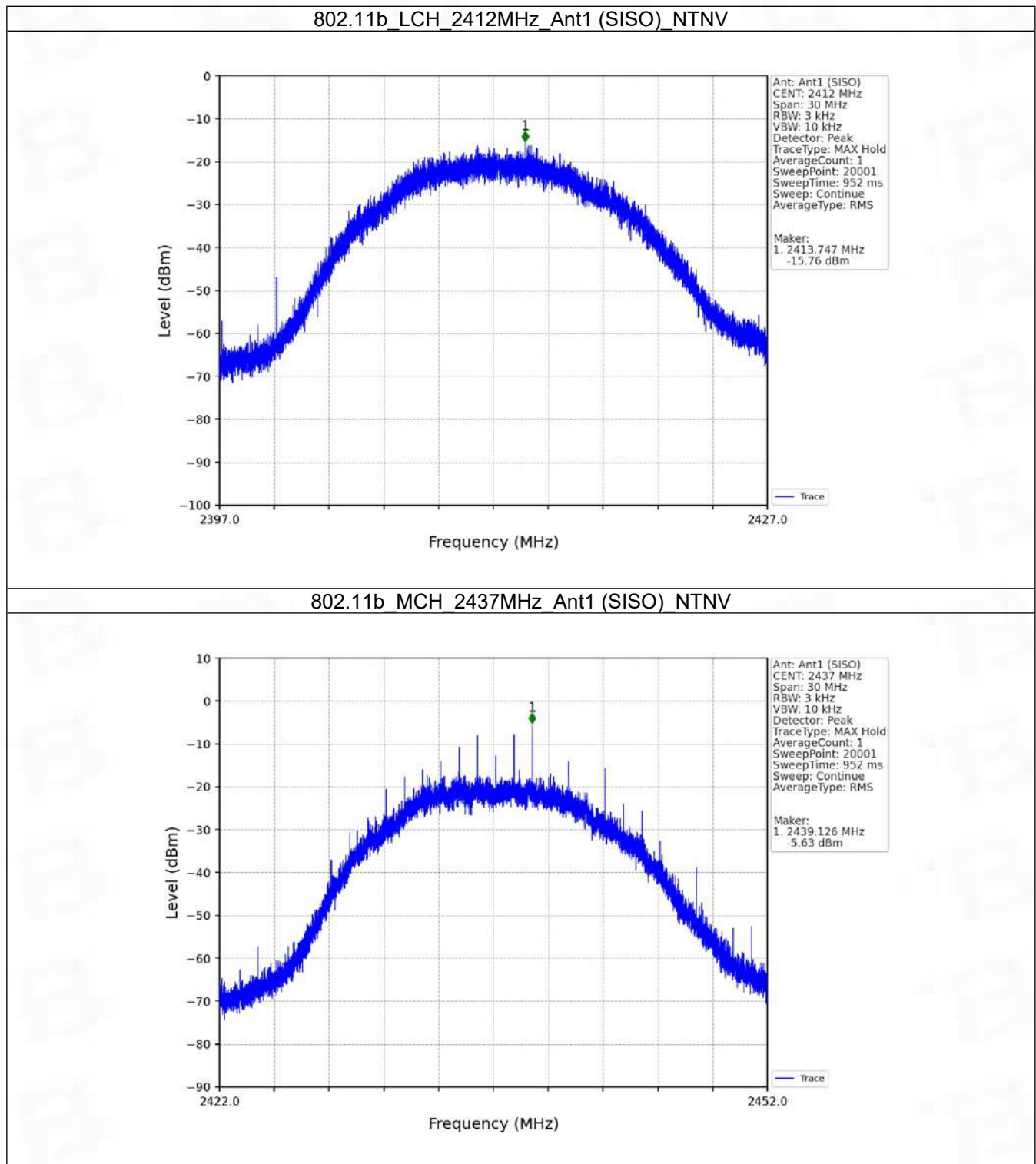
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	7.46	<=30	Pass
		2437	7.66	<=30	Pass
		2462	6.29	<=30	Pass
802.11g	SISO	2412	11.50	<=30	Pass
		2437	11.39	<=30	Pass
		2462	10.42	<=30	Pass
802.11n (HT20)	SISO	2412	10.48	<=30	Pass
		2437	10.50	<=30	Pass
		2462	9.31	<=30	Pass

4. Maximum Power Spectral Density

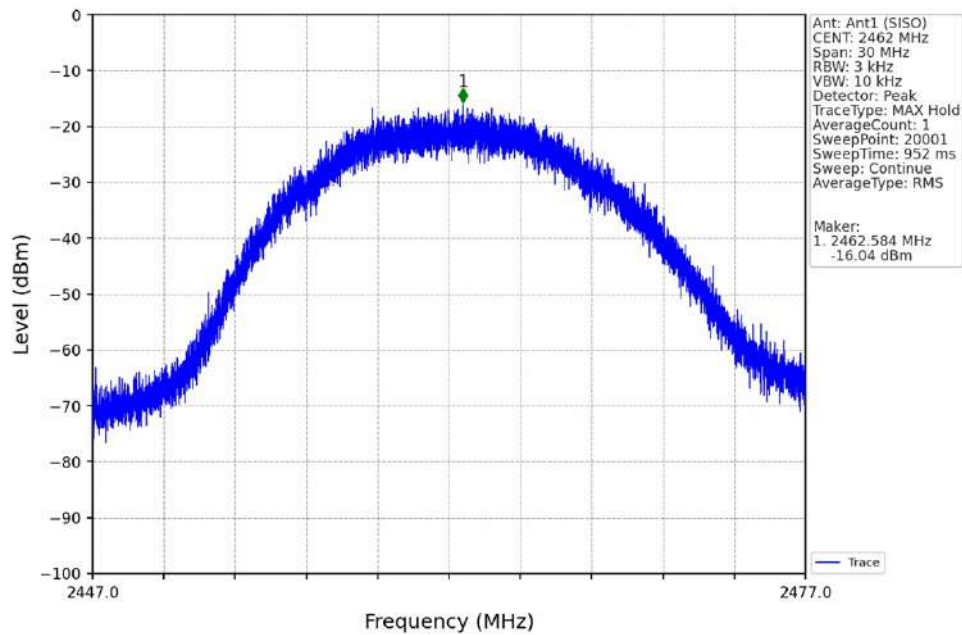
4.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-15.76	≤ 8	Pass
		2437	-5.63	≤ 8	Pass
		2462	-16.04	≤ 8	Pass
802.11g	SISO	2412	-18.62	≤ 8	Pass
		2437	-18.96	≤ 8	Pass
		2462	-17.60	≤ 8	Pass
802.11n (HT20)	SISO	2412	-19.47	≤ 8	Pass
		2437	-19.92	≤ 8	Pass
		2462	-20.52	≤ 8	Pass

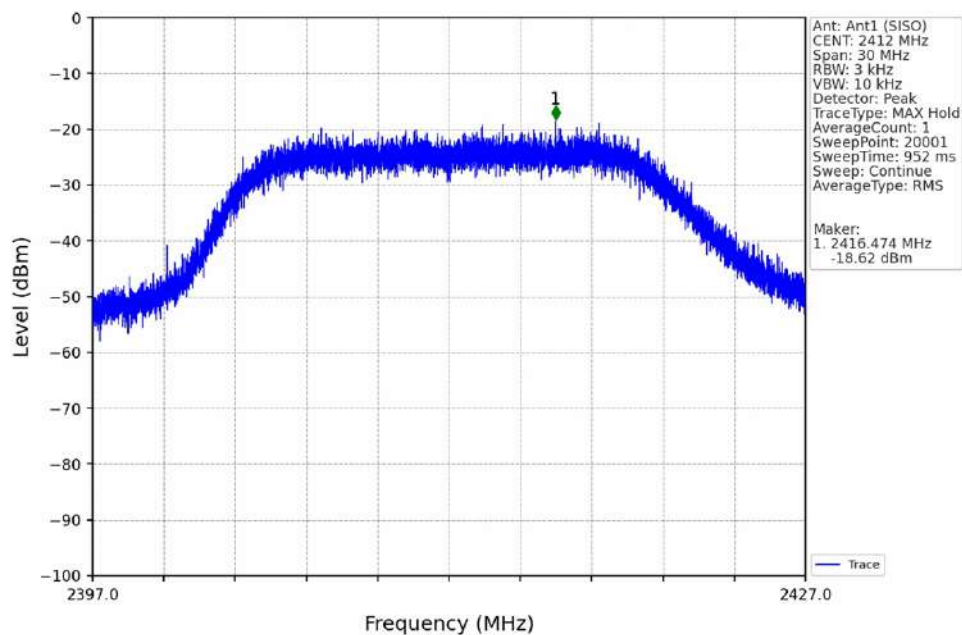
4.2 Test Graph



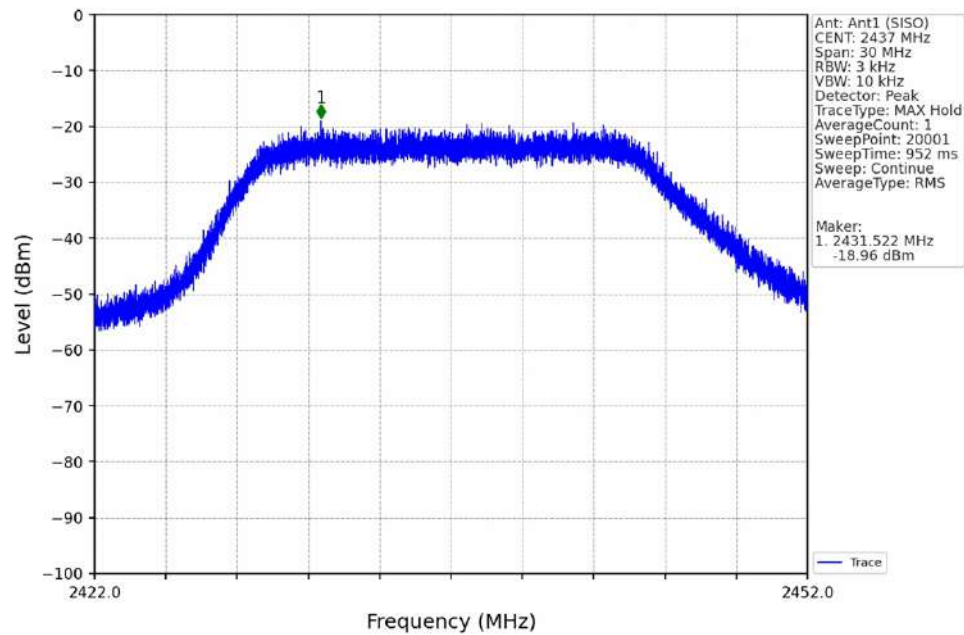
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



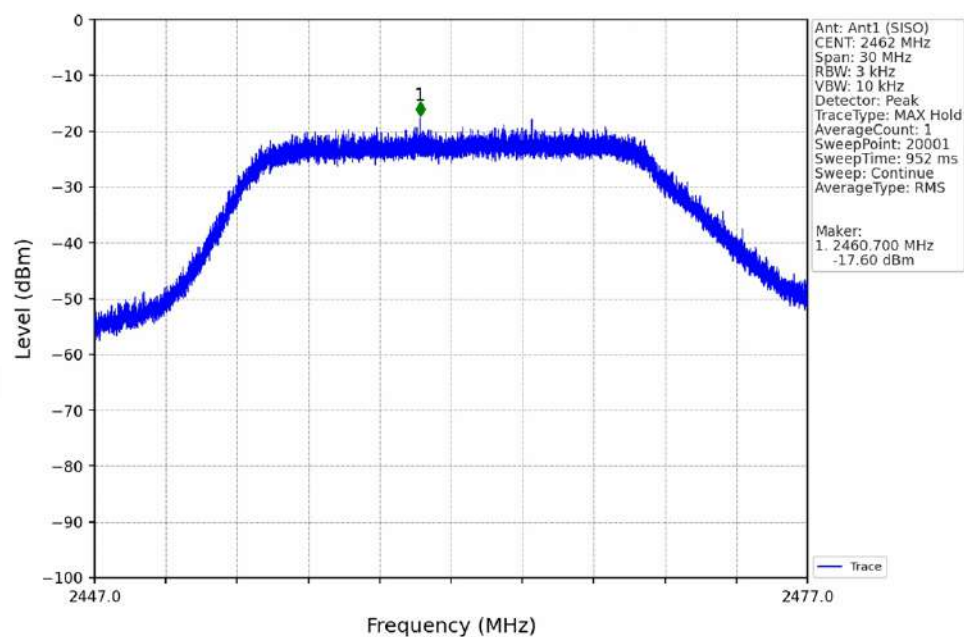
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



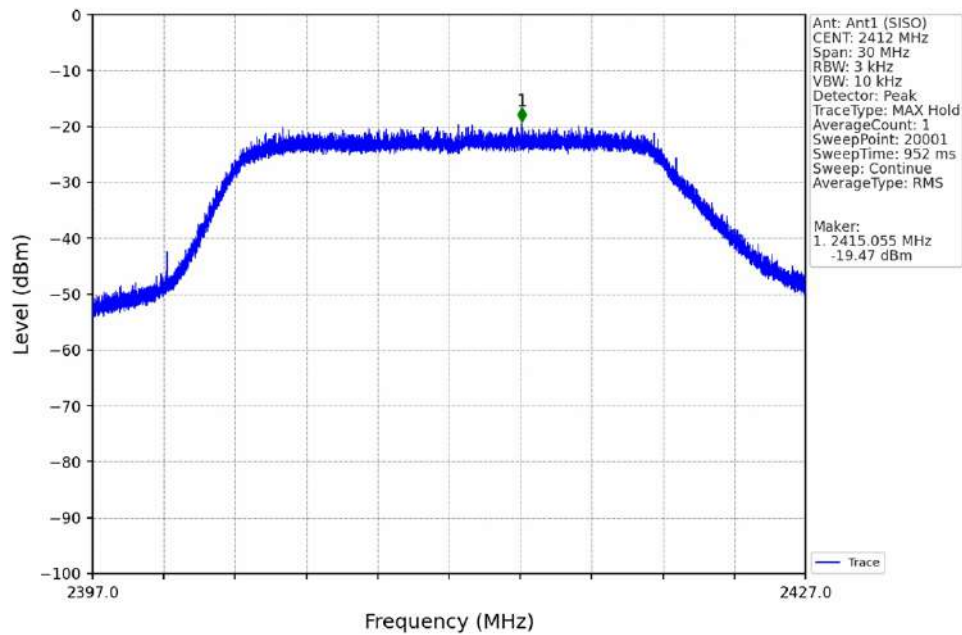
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



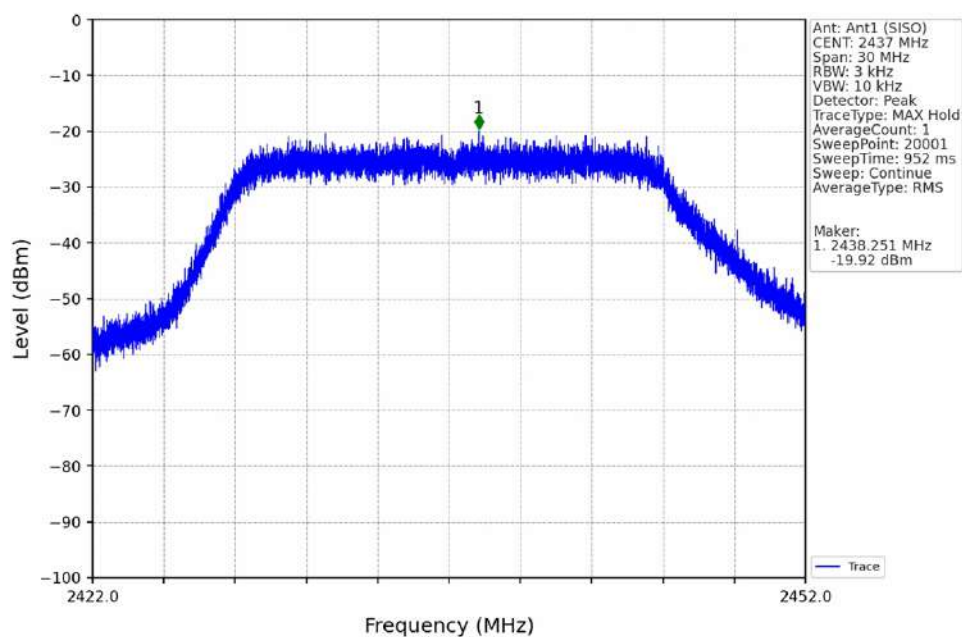
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



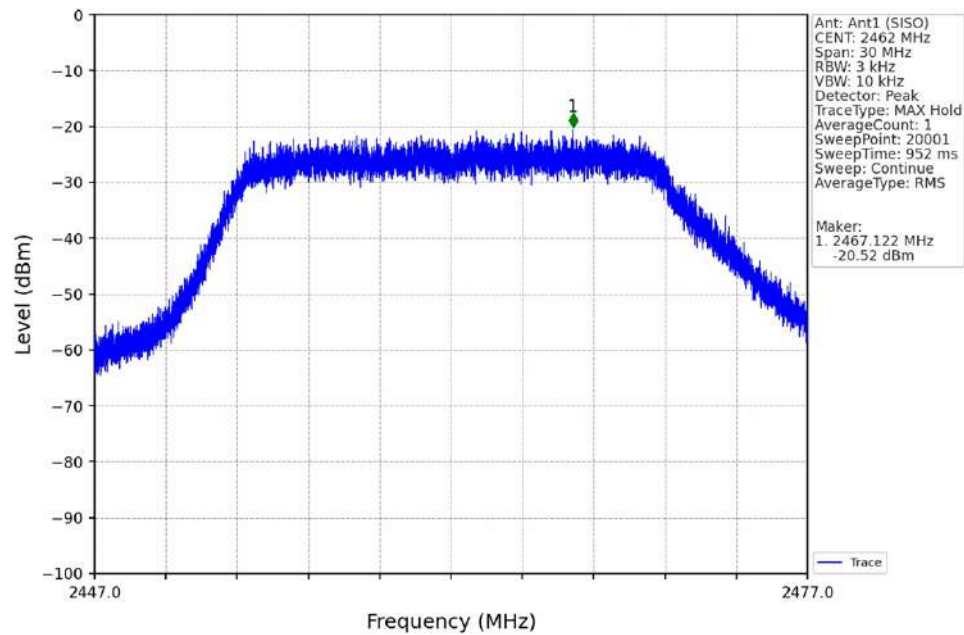
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

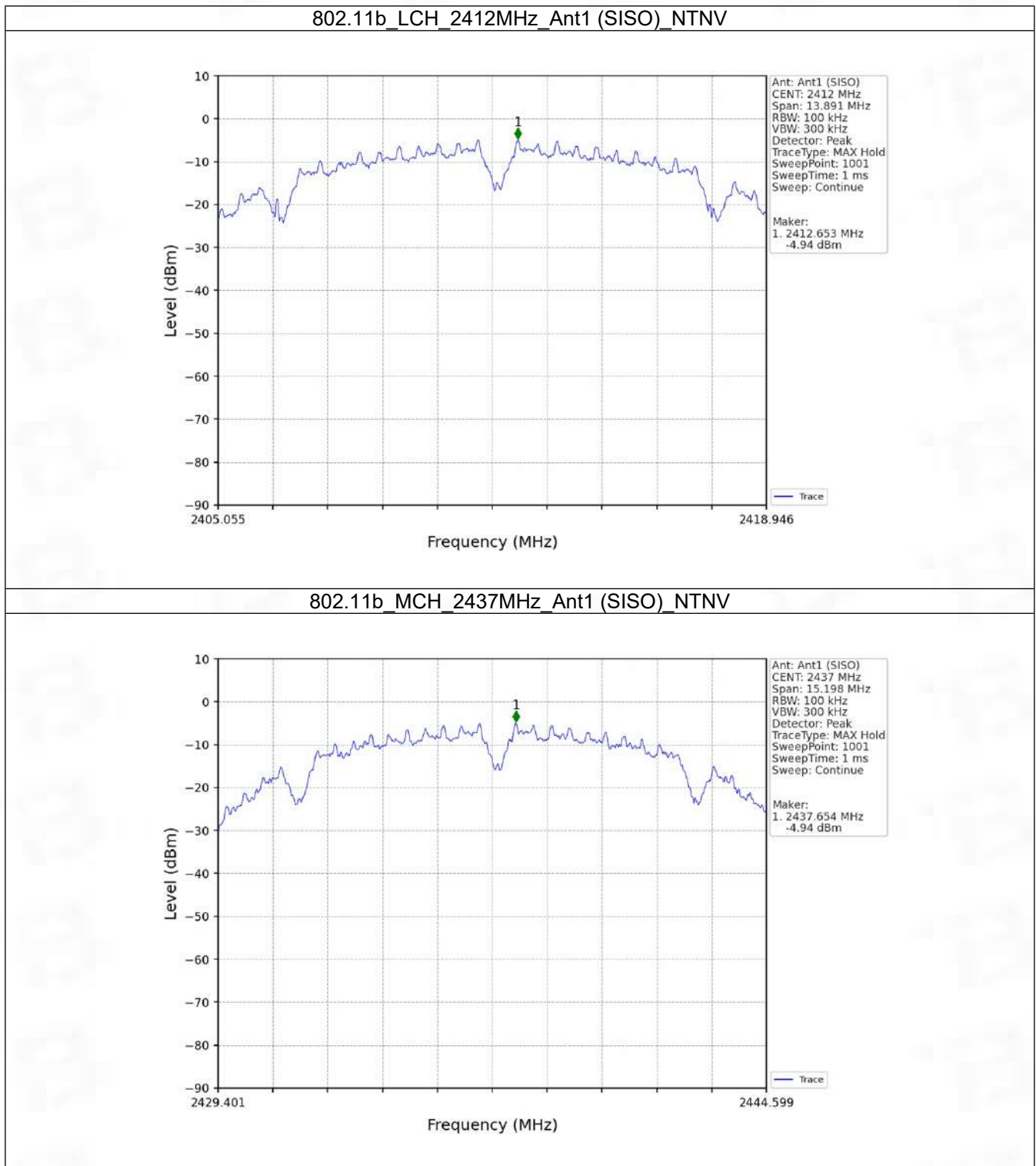
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-4.94
		2437	1	-4.94
		2462	1	-6.23
802.11g	SISO	2412	1	-7.28
		2437	1	-7.66
		2462	1	-8.25
802.11n (HT20)	SISO	2412	1	-8.17
		2437	1	-8.48
		2462	1	-9.30

5.1.2 CSE

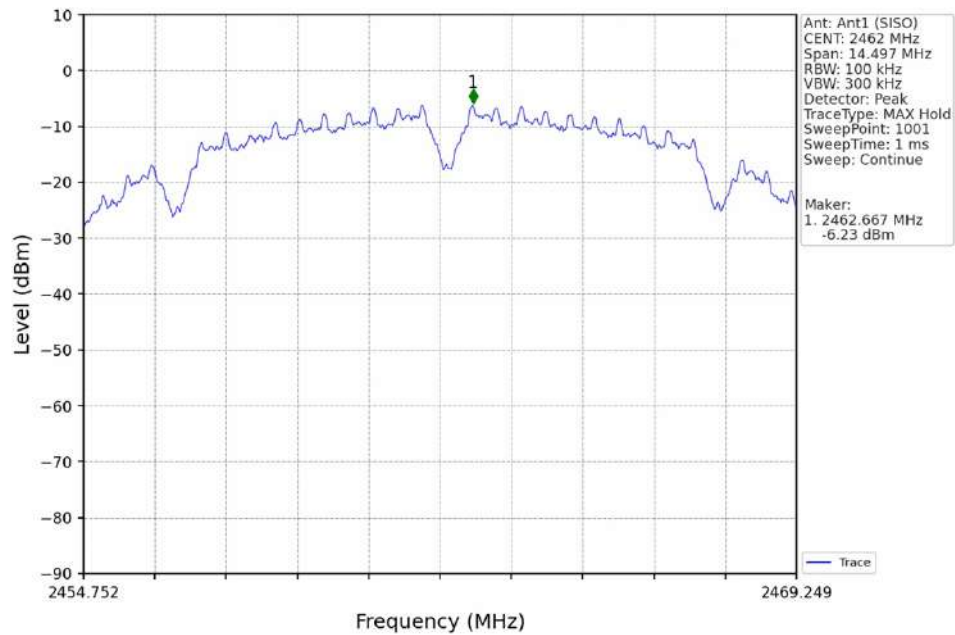
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-4.94	-24.94	Pass
		2437	1	-4.94	-24.94	Pass
		2462	1	-6.23	-26.23	Pass
802.11g	SISO	2412	1	-7.28	-27.28	Pass
		2437	1	-7.66	-27.66	Pass
		2462	1	-8.25	-28.25	Pass
802.11n (HT20)	SISO	2412	1	-8.17	-28.17	Pass
		2437	1	-8.48	-28.48	Pass
		2462	1	-9.30	-29.30	Pass

5.2 Test Graph

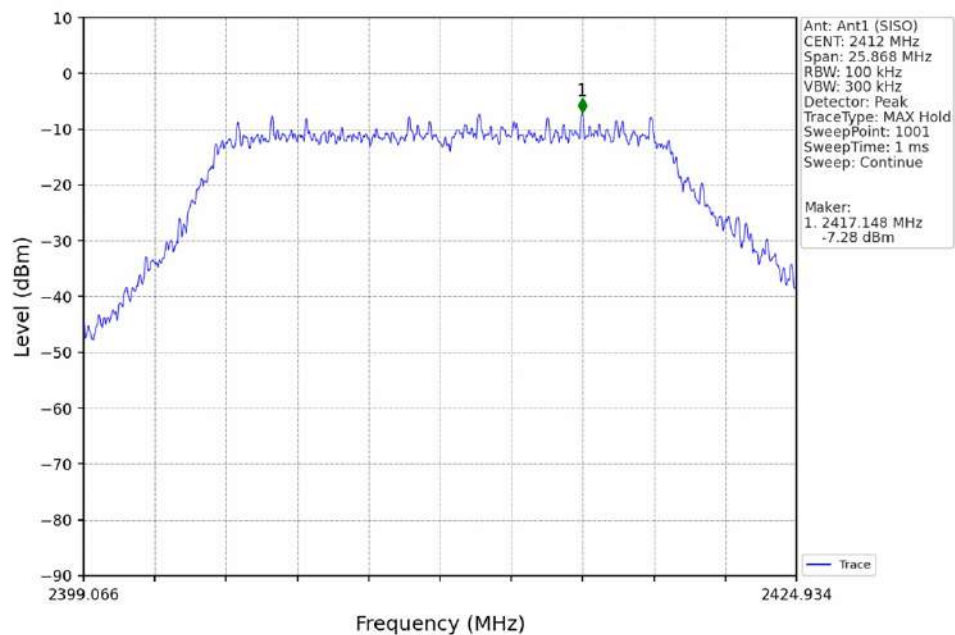
5.2.1 Ref



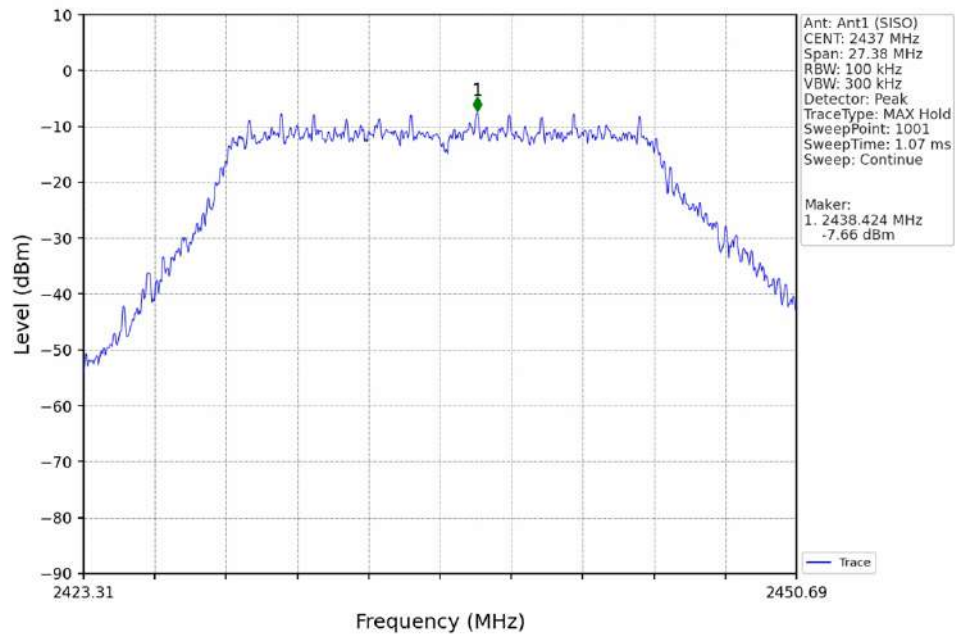
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



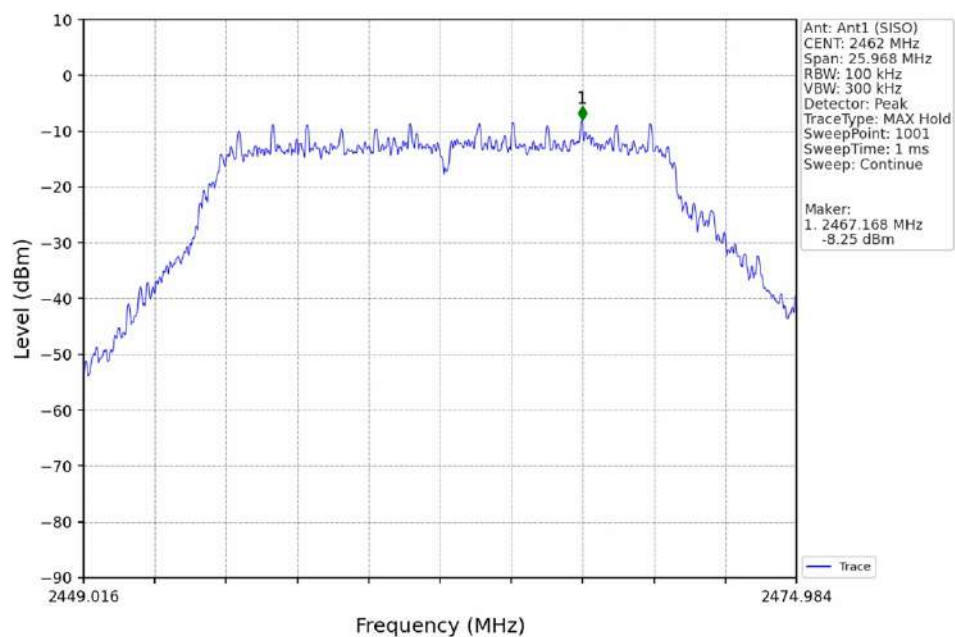
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



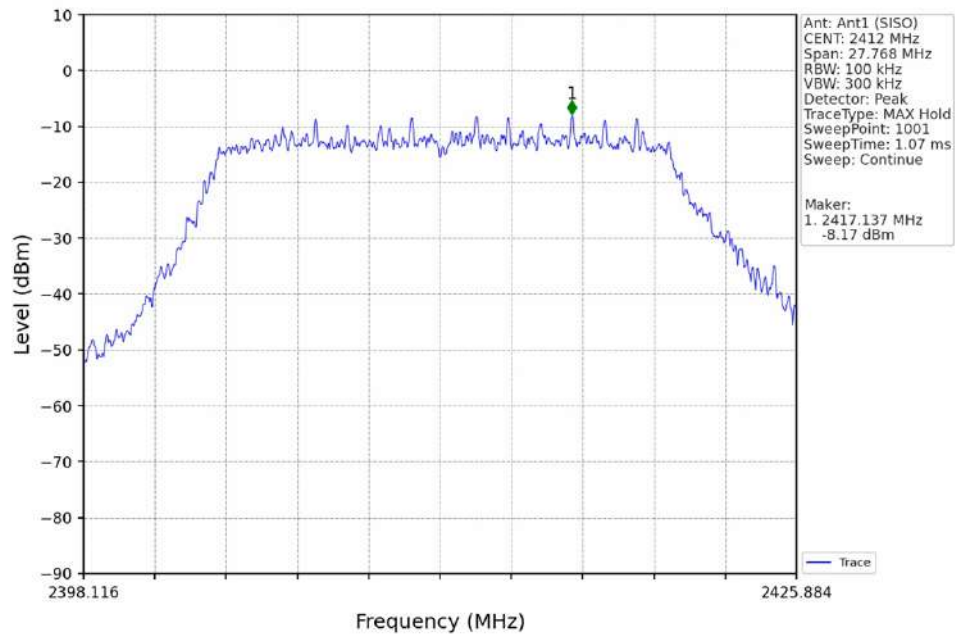
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



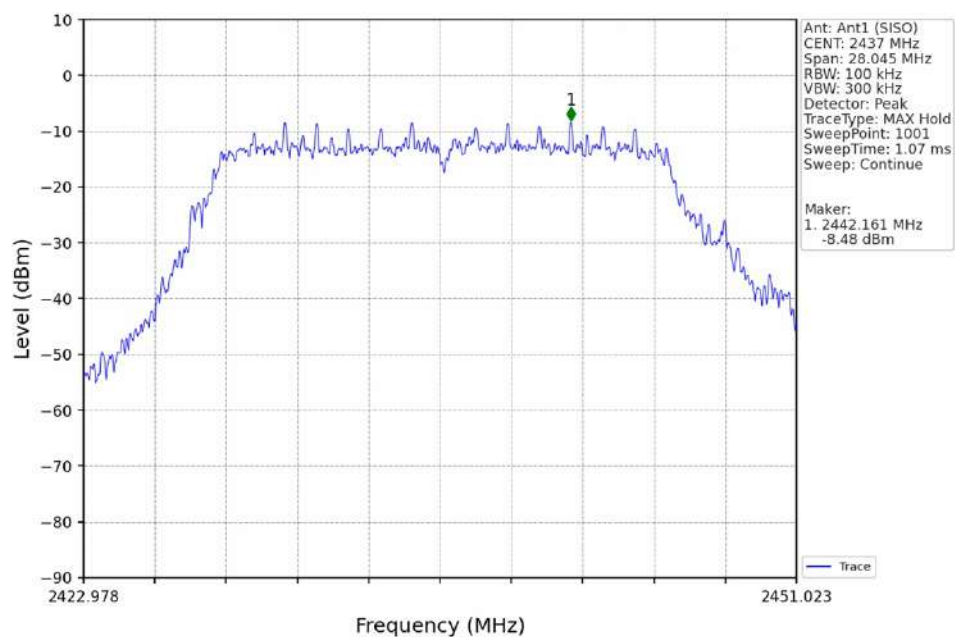
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



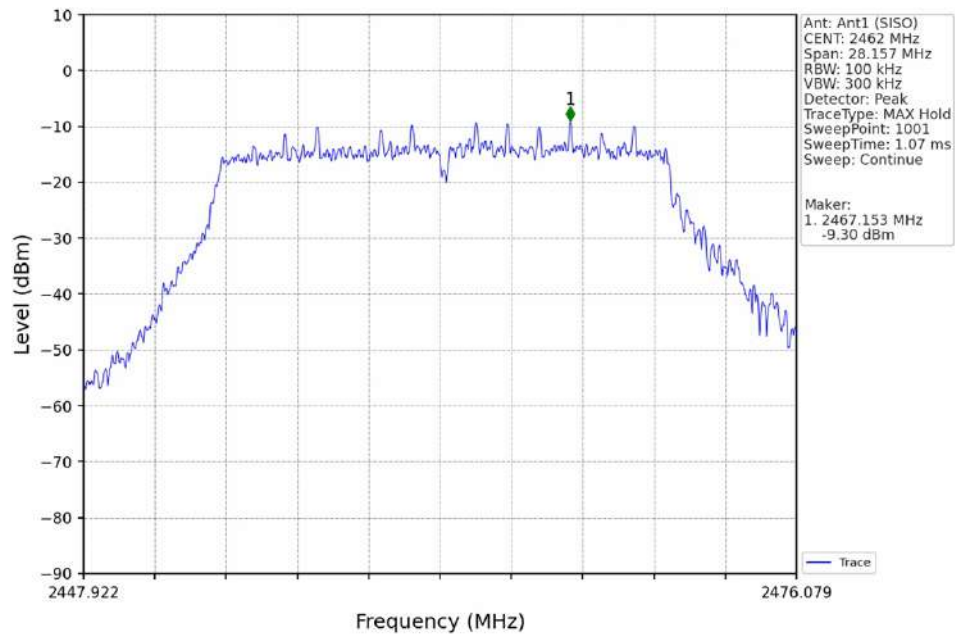
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



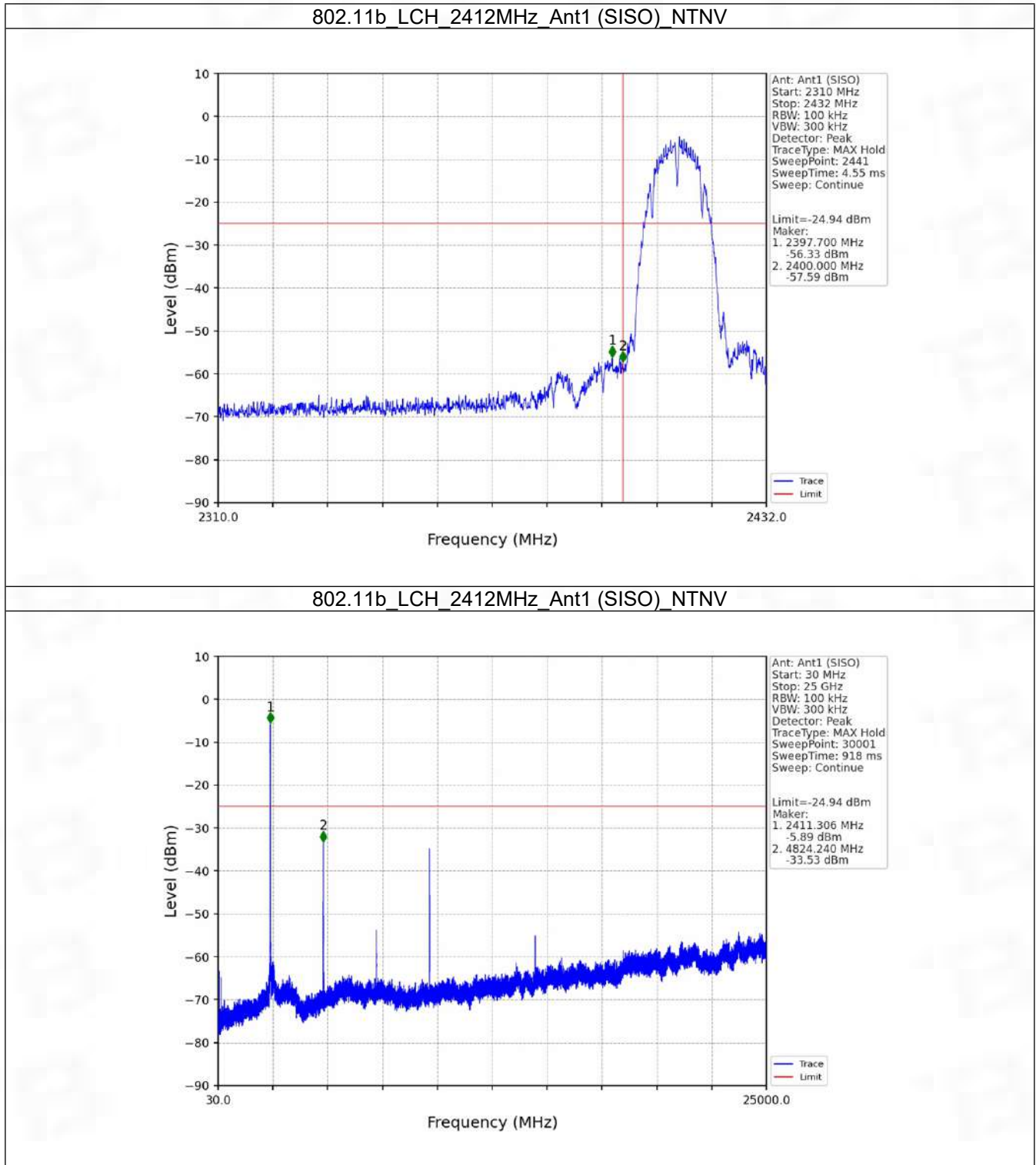
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



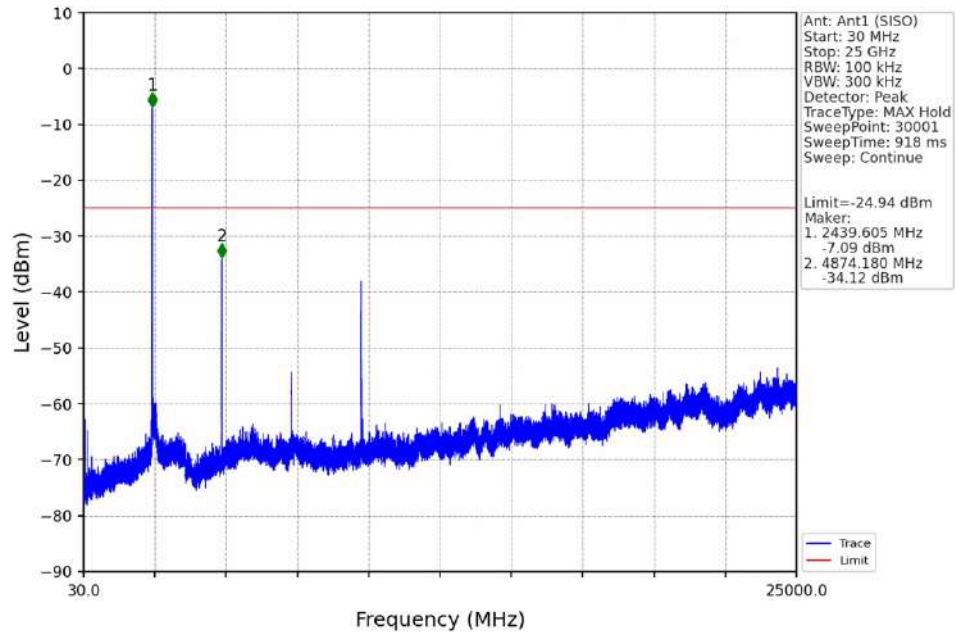
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



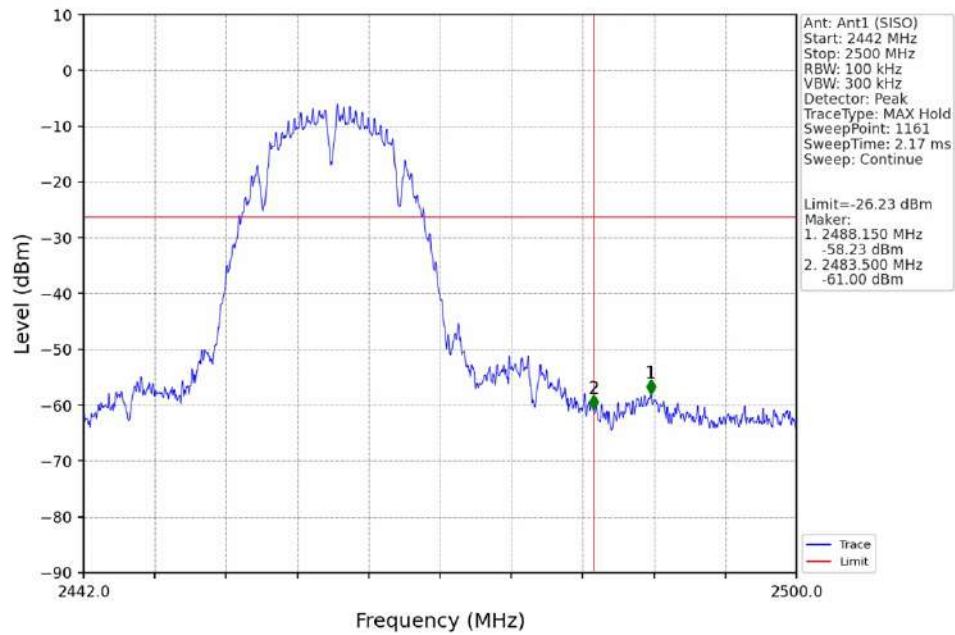
5.2.2 CSE



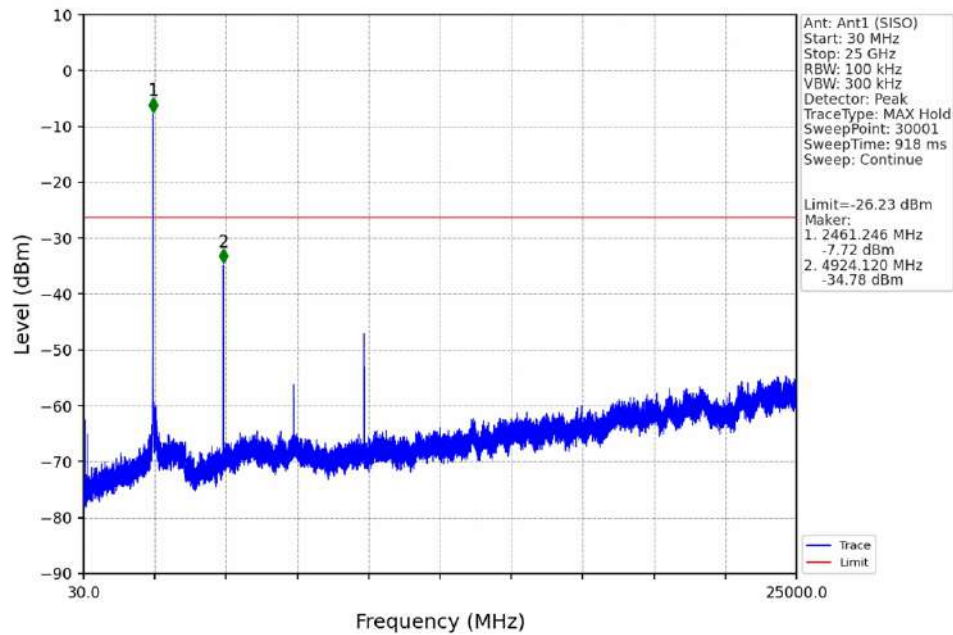
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



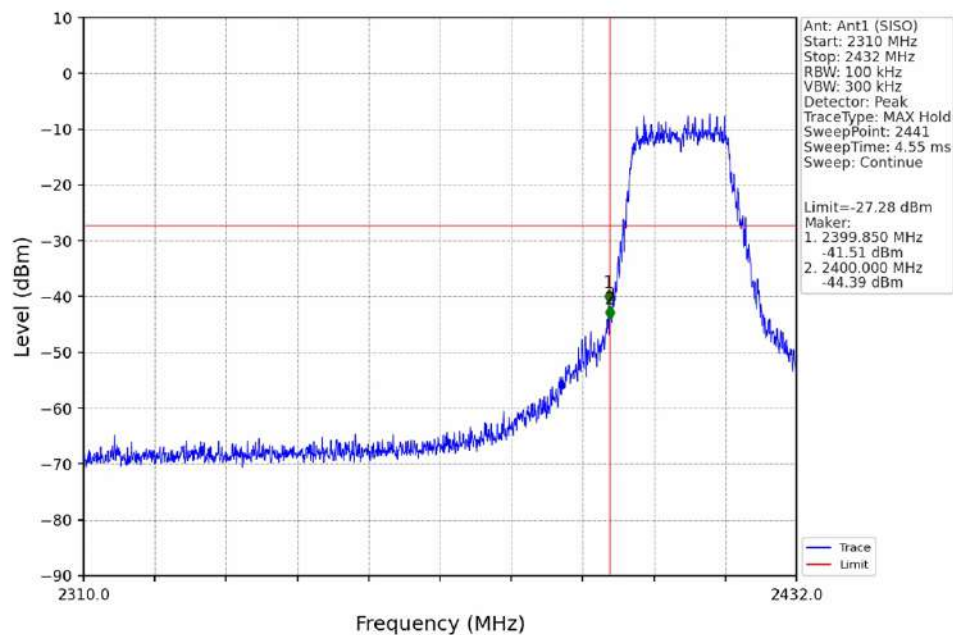
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



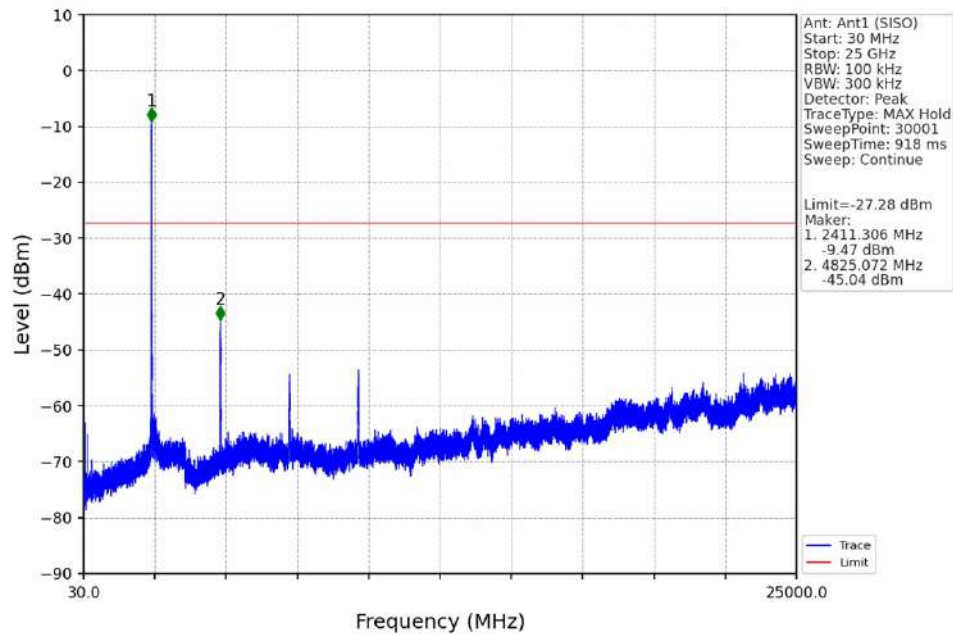
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



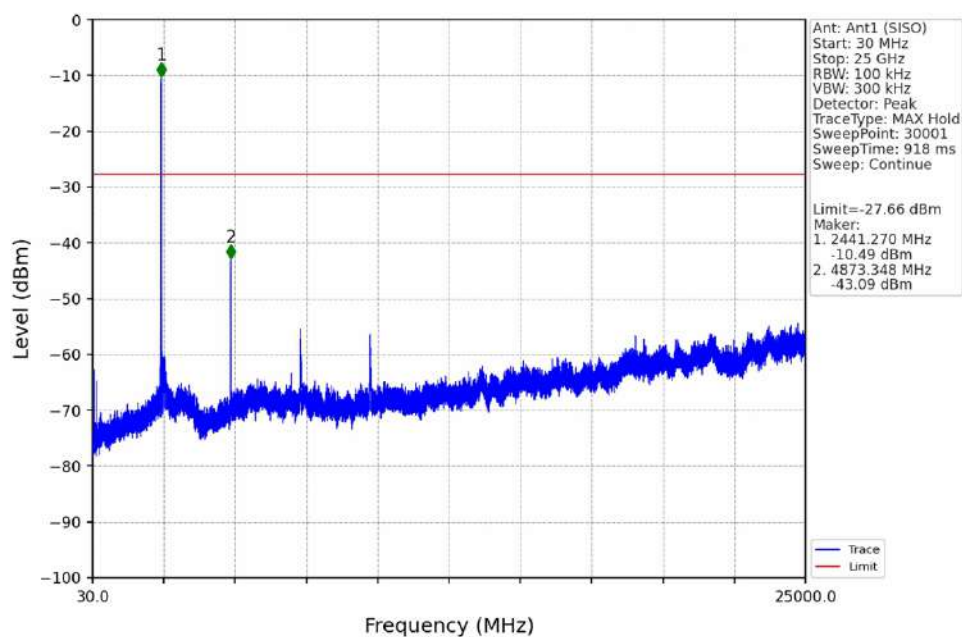
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



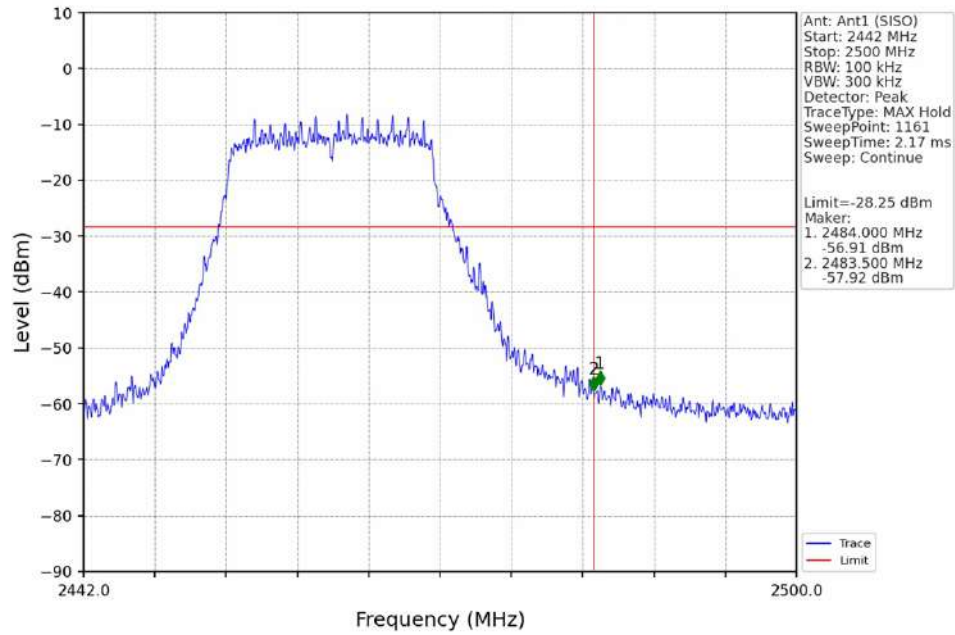
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



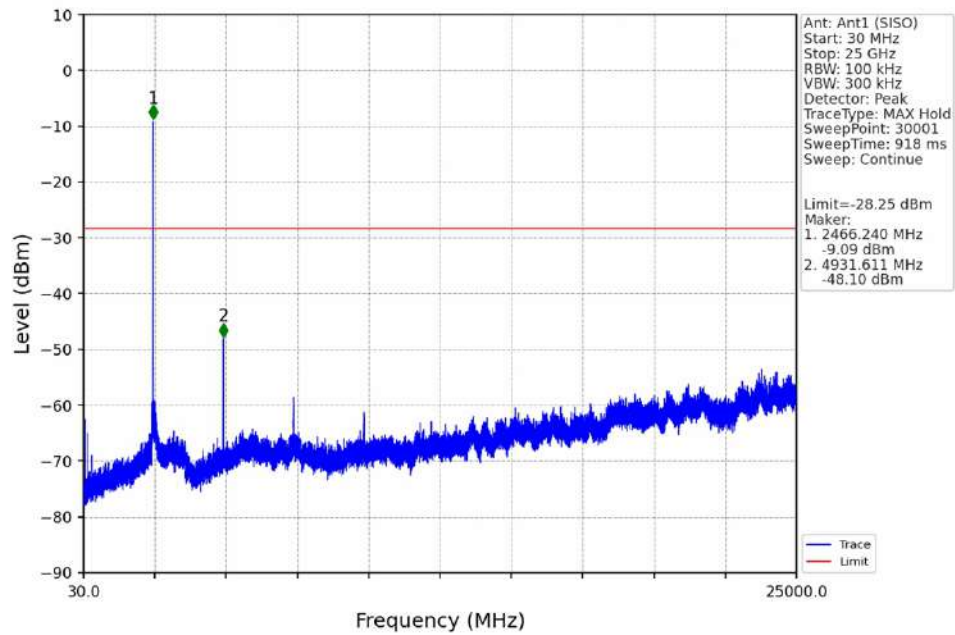
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



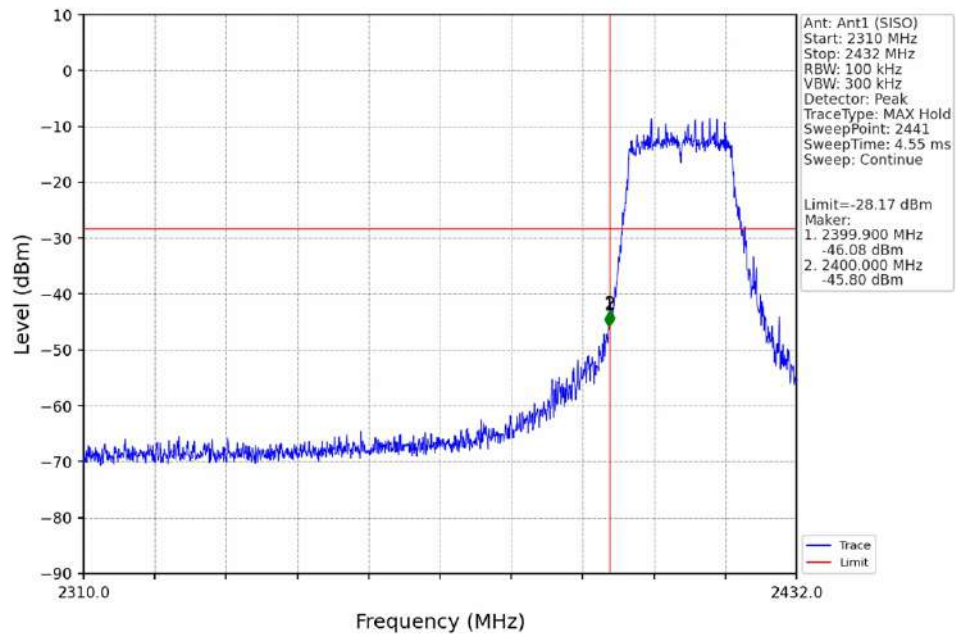
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



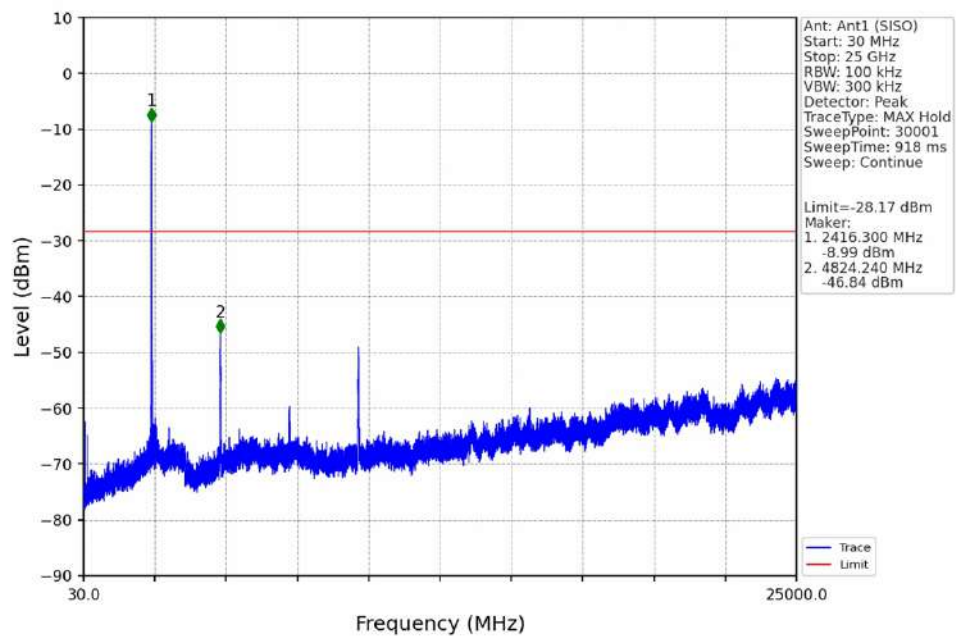
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



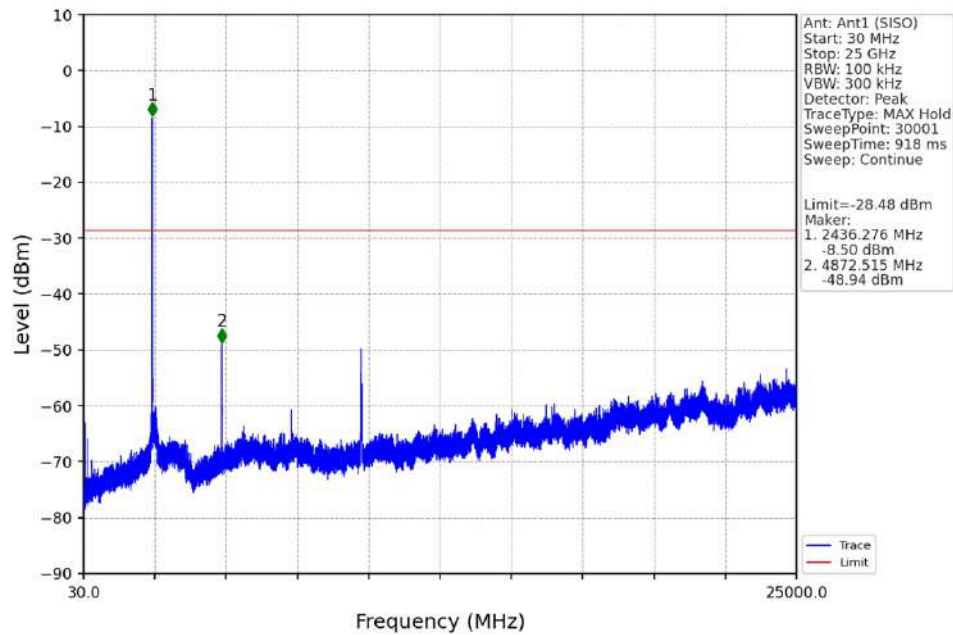
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



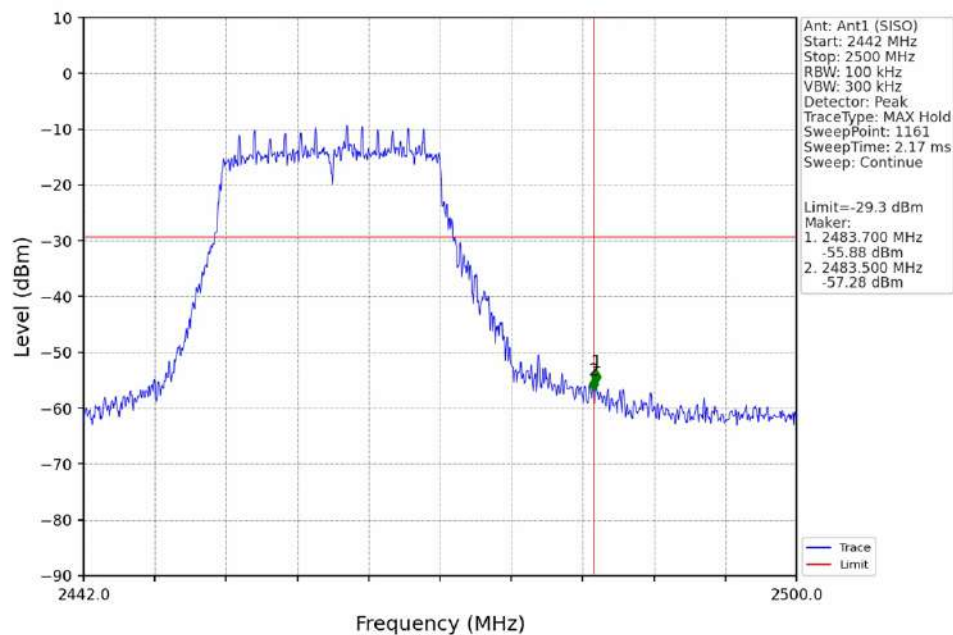
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

