

Appendix RF Test Data for 2.4G WIFI

Company: : Dongguan Yuemeixuan Technology Co., Ltd.

EUT : AI CAMERA

FCC ID: : 2AZGF-AI01

Model Number : AI01

Report No. : HTT2026031136F01

Reviewed By : Heber He

1. Duty Cycle

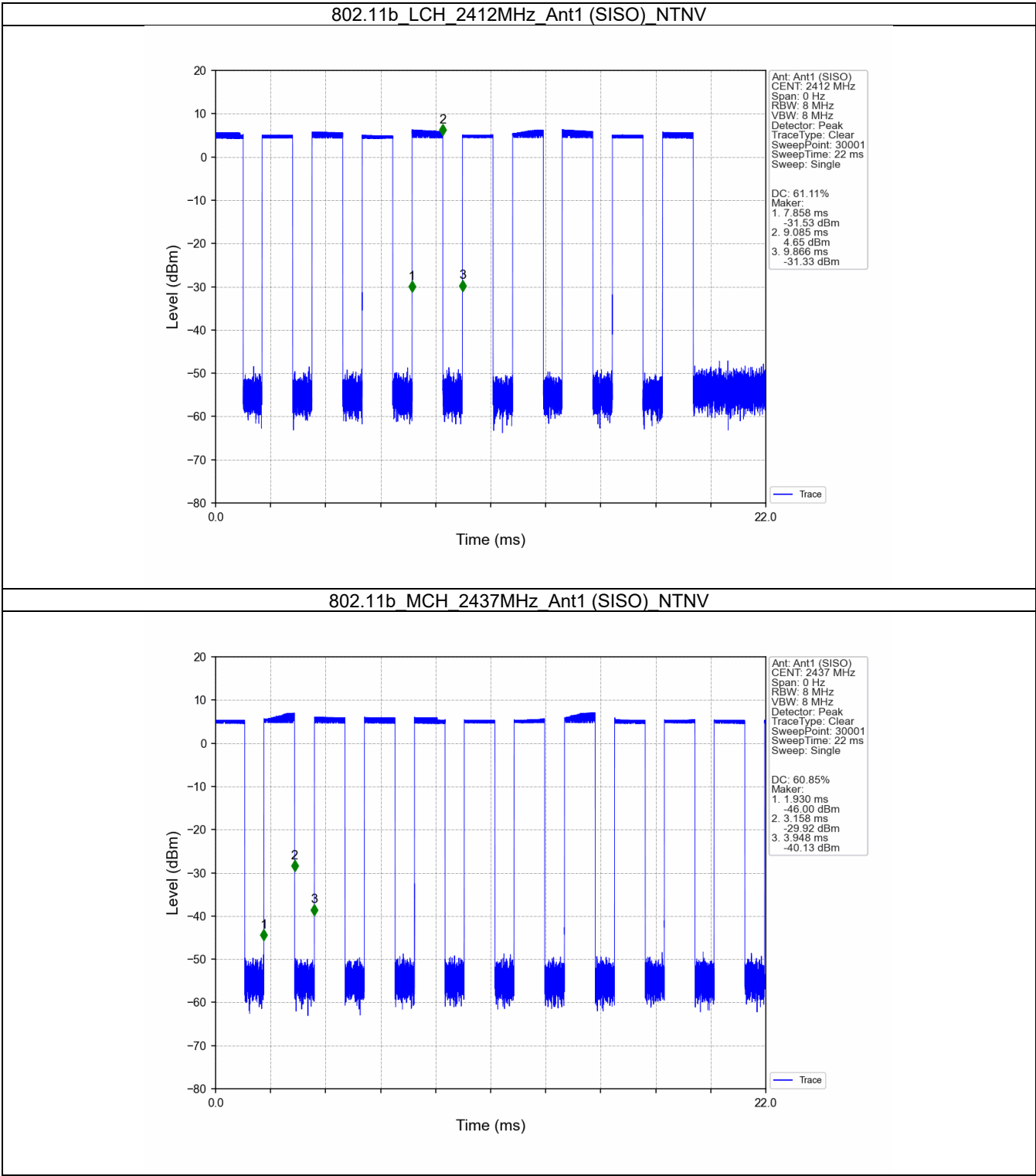
1.1 Test Result

1.1.1 Ant1

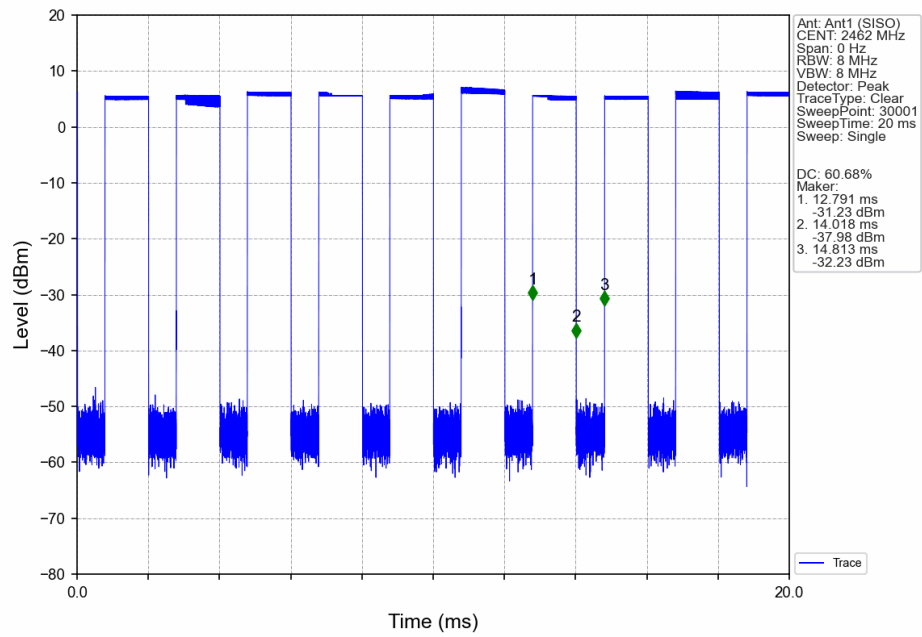
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.227	2.008	61.11	2.14	0.85
		2437	1.228	2.018	60.85	2.16	0.79
		2462	1.227	2.022	60.68	2.17	0.81
802.11g	SISO	2412	0.547	1.246	43.90	3.58	11.16
		2437	0.545	1.011	53.91	2.68	13.87
		2462	0.545	1.020	53.43	2.72	1.95
802.11n (HT20)	SISO	2412	0.550	1.015	54.19	2.66	1.48
		2437	0.550	1.015	54.19	2.66	1.48
		2462	0.551	1.024	53.81	2.69	1.98

1.2 Test Graph

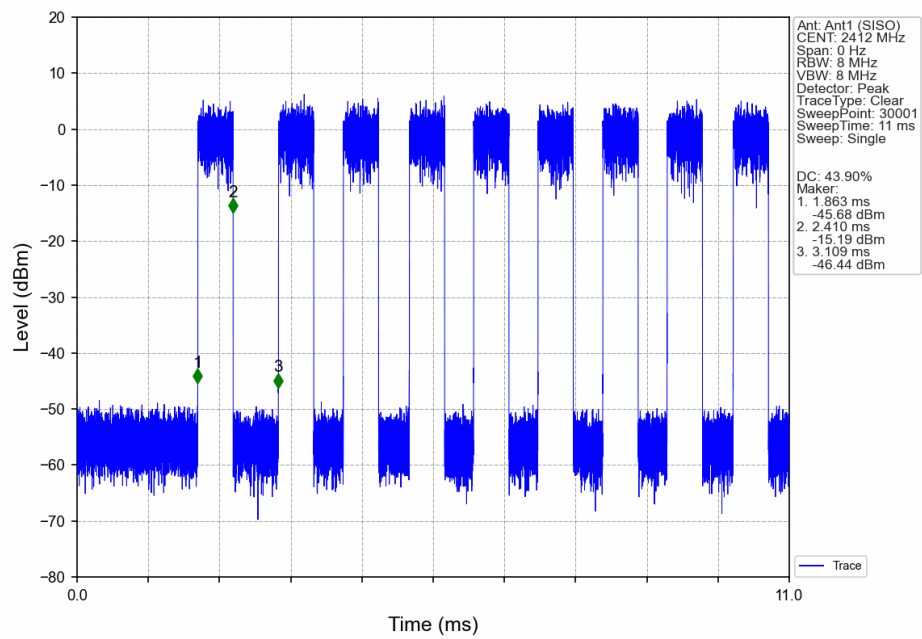
1.2.1 Ant1



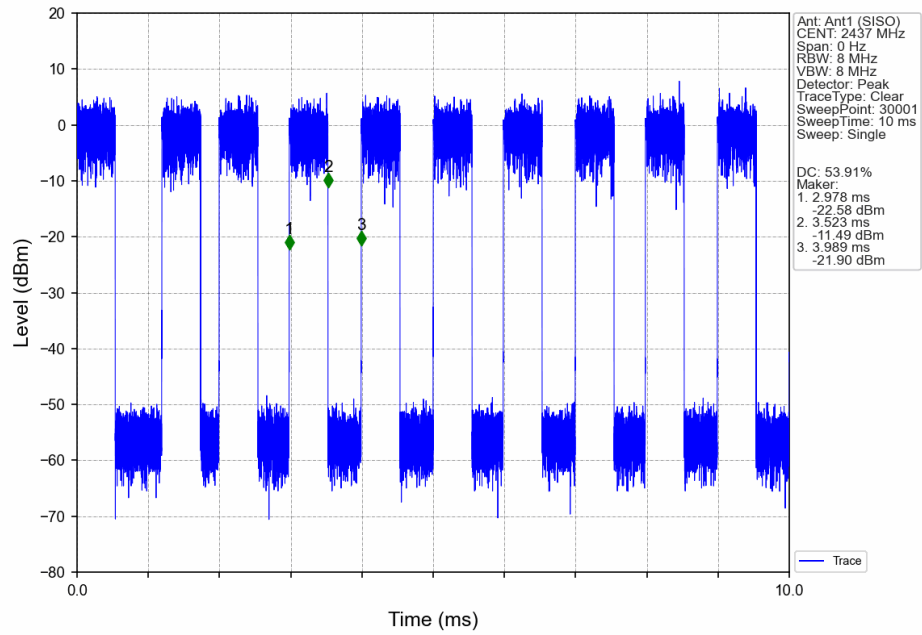
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



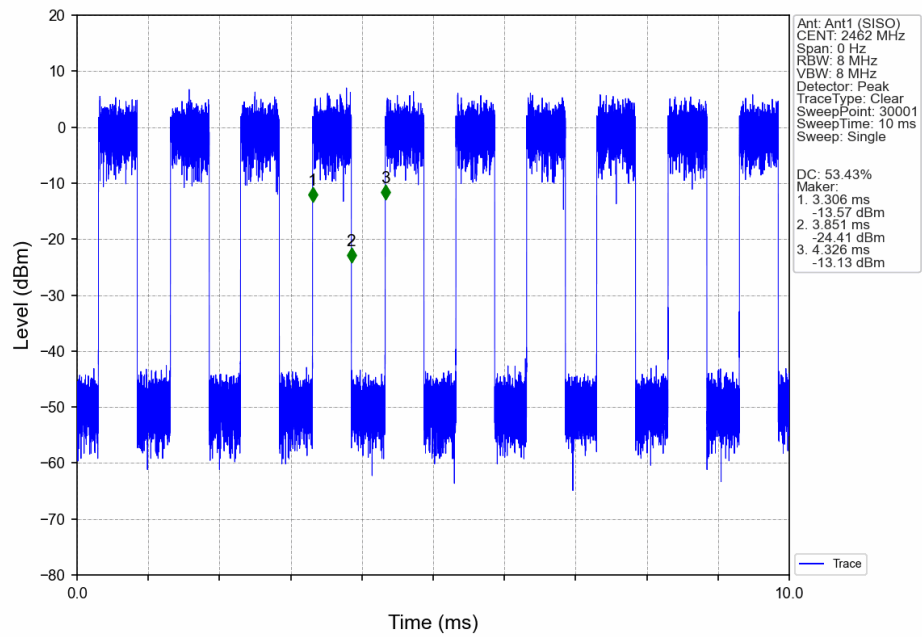
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



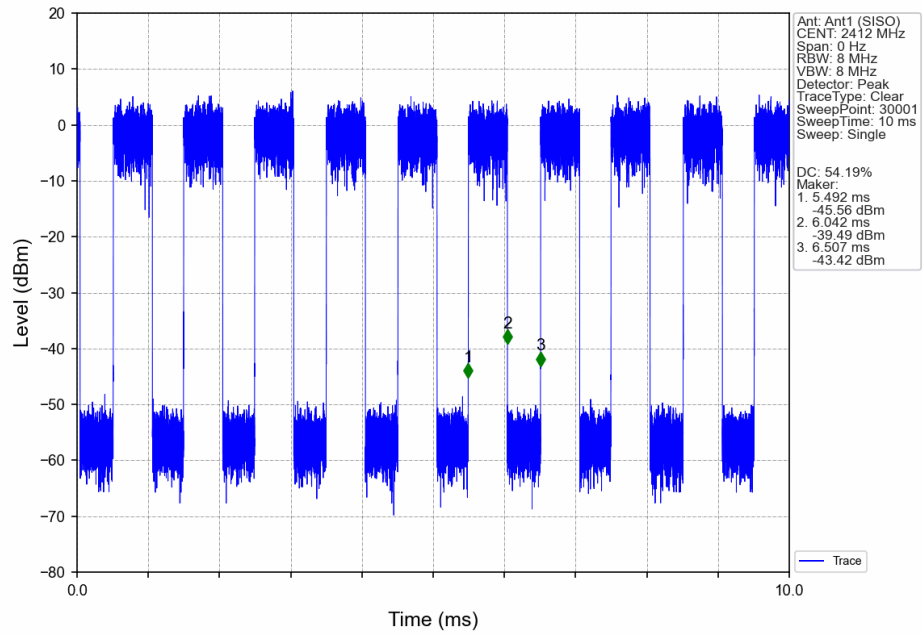
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



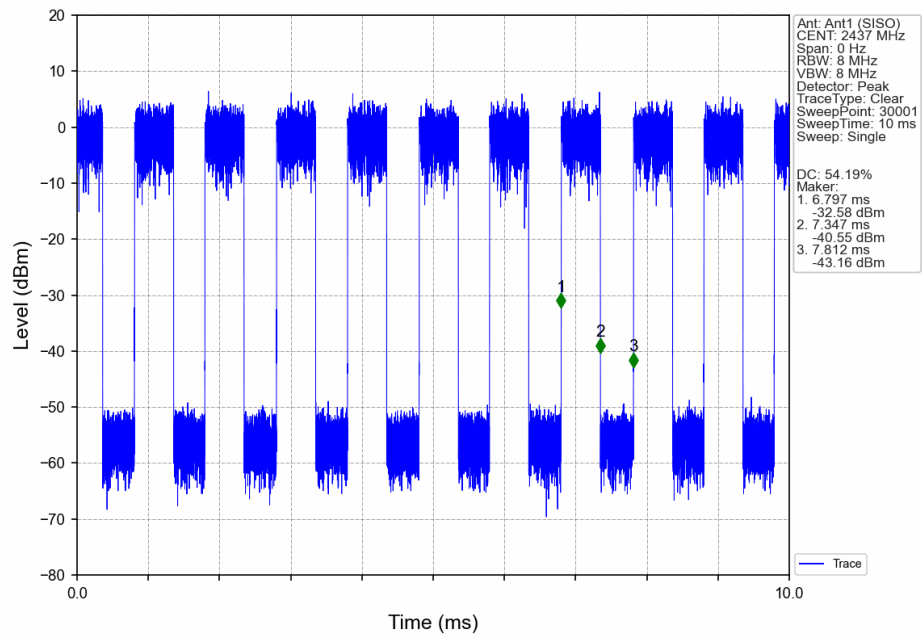
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



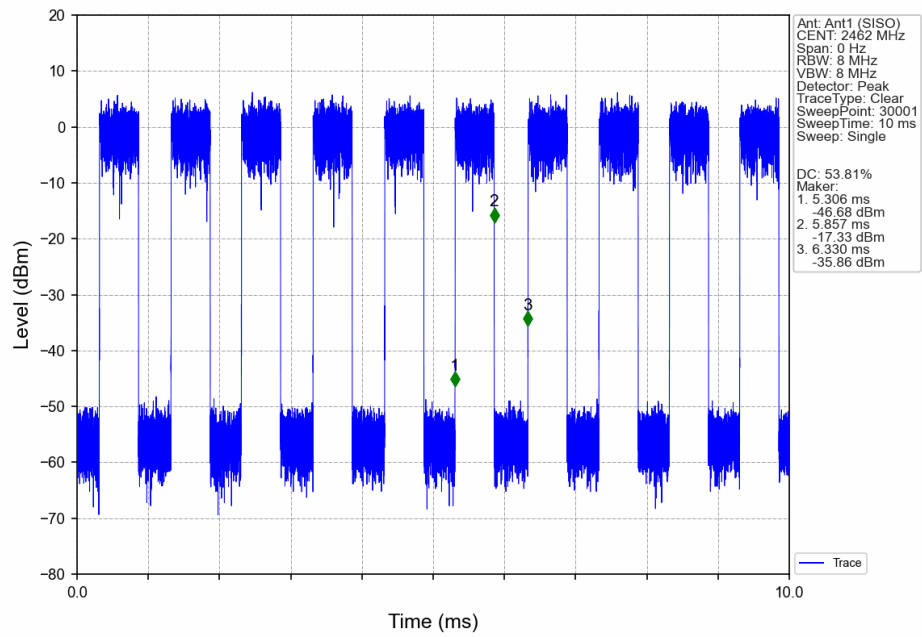
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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

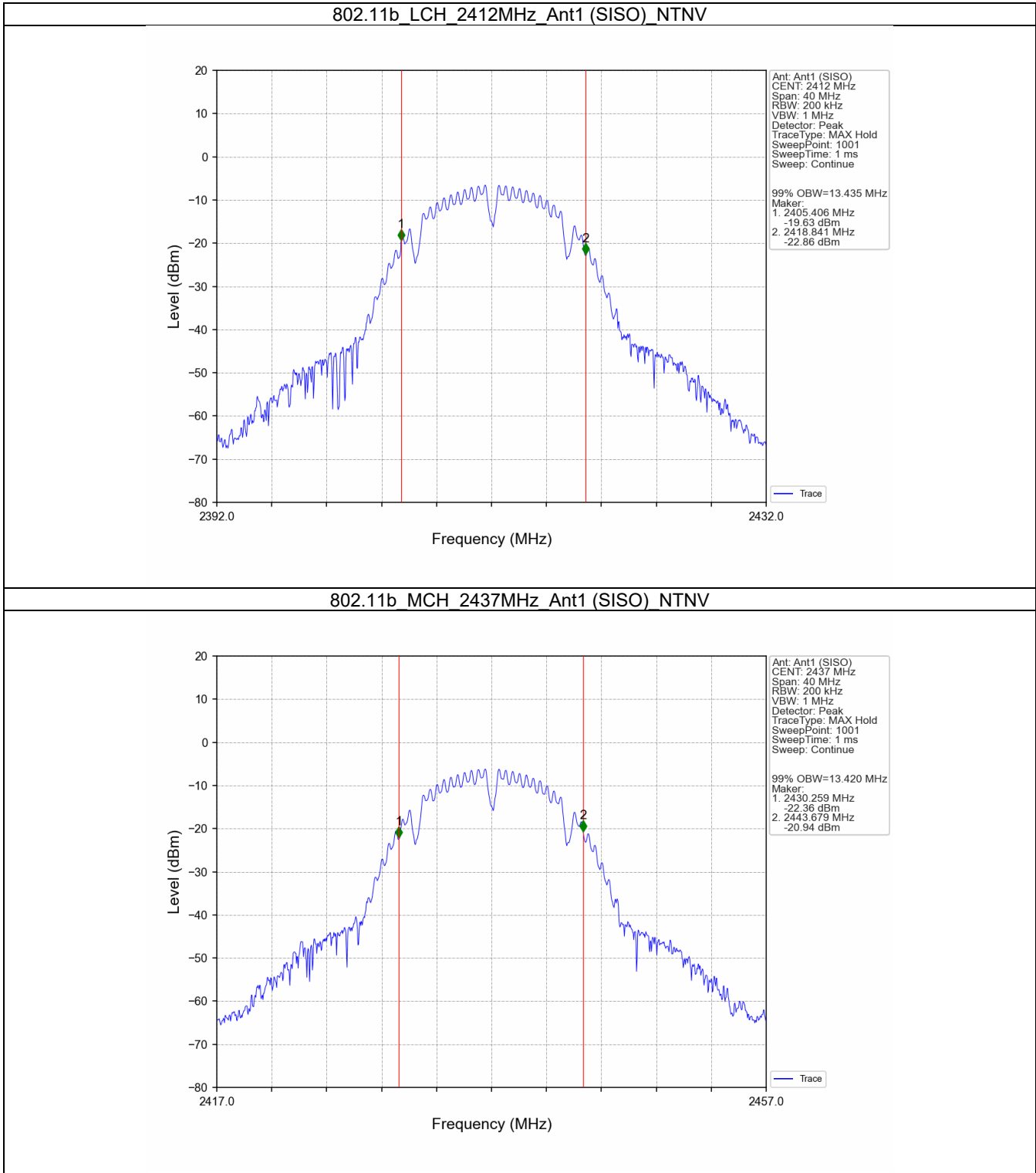
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.435	/	Pass
		2437	1	13.420	/	Pass
		2462	1	13.341	/	Pass
802.11g	SISO	2412	1	16.722	/	Pass
		2437	1	16.732	/	Pass
		2462	1	16.728	/	Pass
802.11n (HT20)	SISO	2412	1	17.601	/	Pass
		2437	1	17.592	/	Pass
		2462	1	17.580	/	Pass

2.1.2 6dB BW

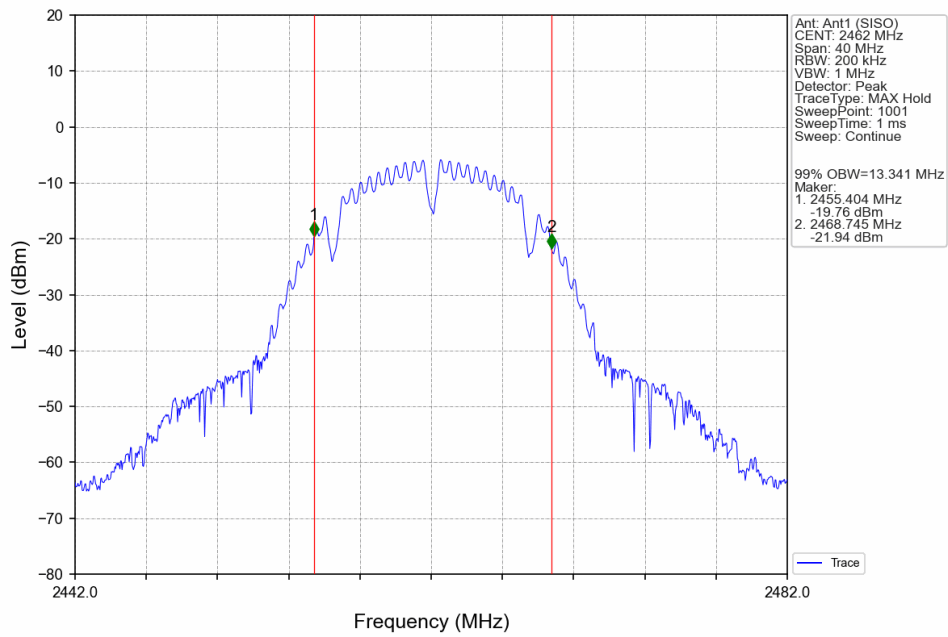
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.588	≥ 0.5	Pass
		2437	1	9.191	≥ 0.5	Pass
		2462	1	9.201	≥ 0.5	Pass
802.11g	SISO	2412	1	16.585	≥ 0.5	Pass
		2437	1	16.547	≥ 0.5	Pass
		2462	1	16.515	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.514	≥ 0.5	Pass
		2437	1	17.596	≥ 0.5	Pass
		2462	1	17.516	≥ 0.5	Pass

2.2 Test Graph

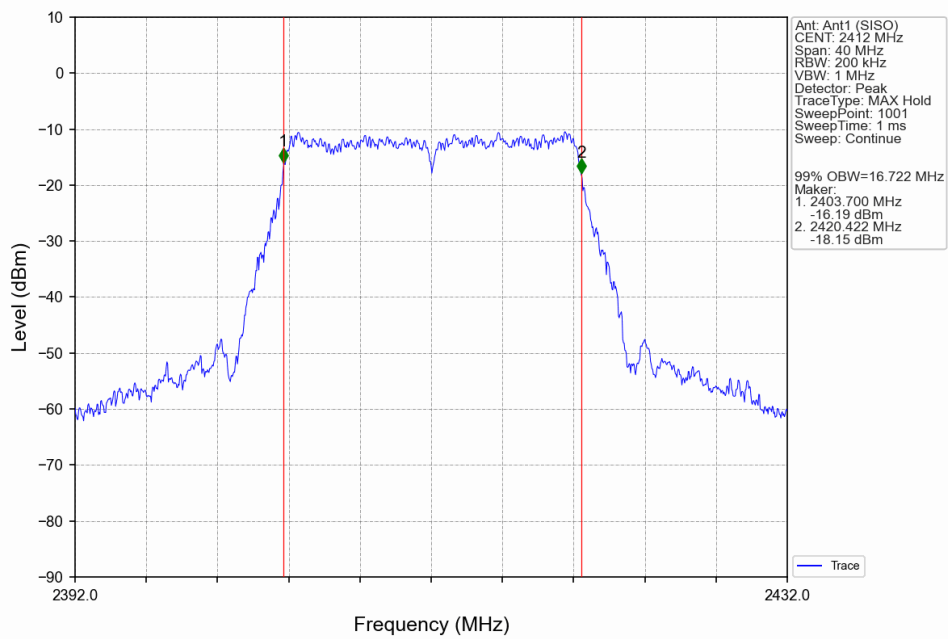
2.2.1 OBW



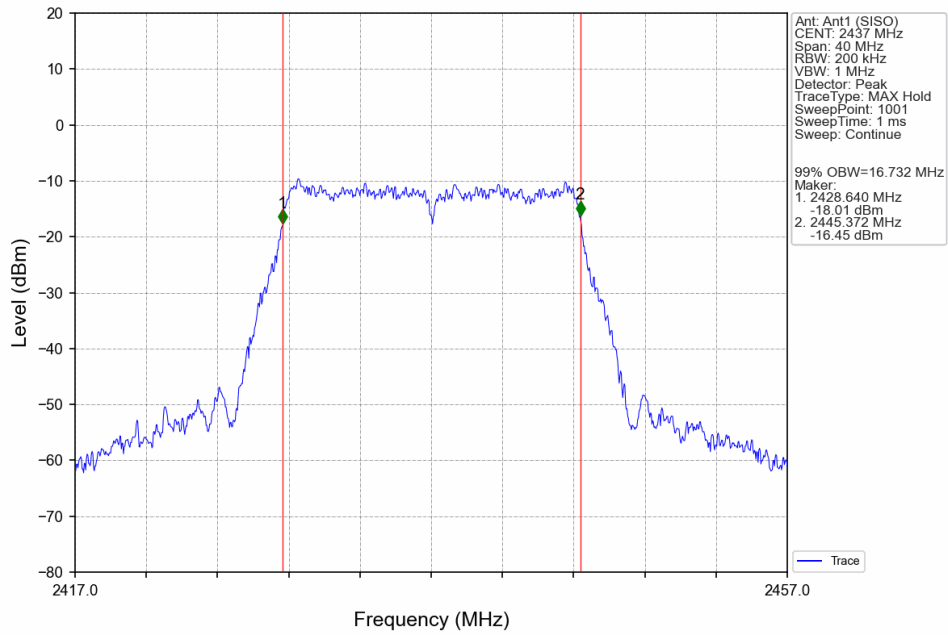
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



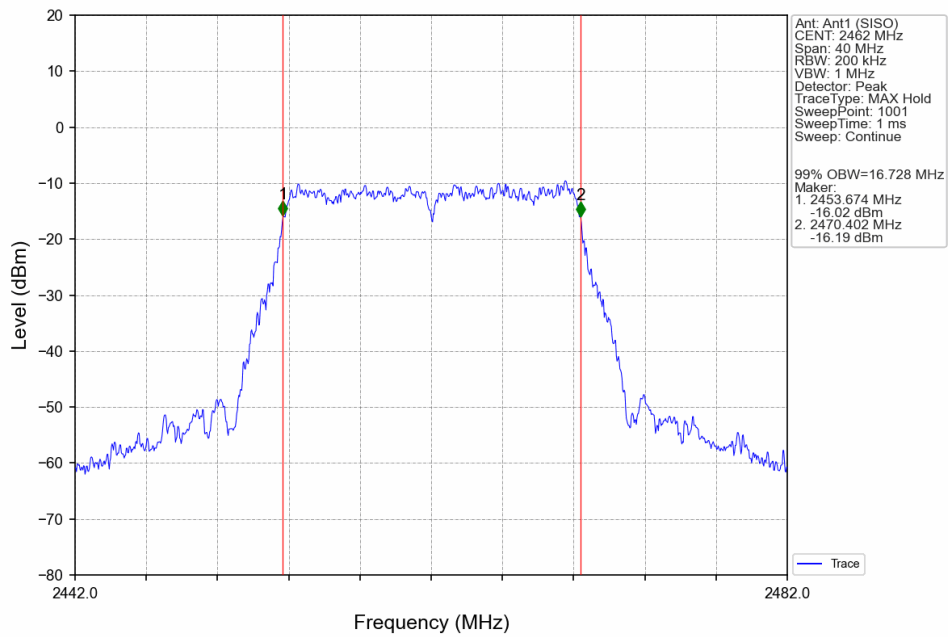
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



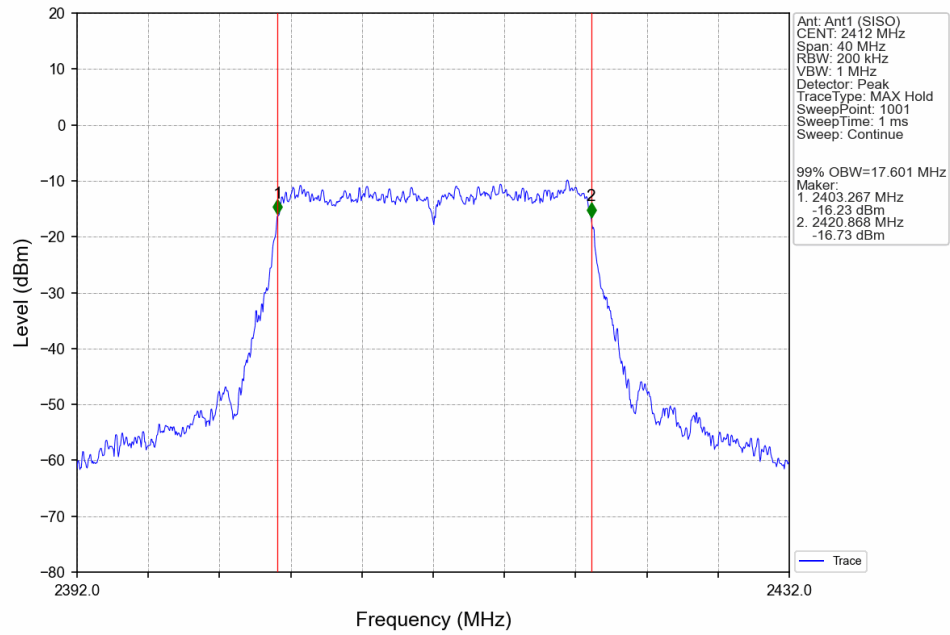
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



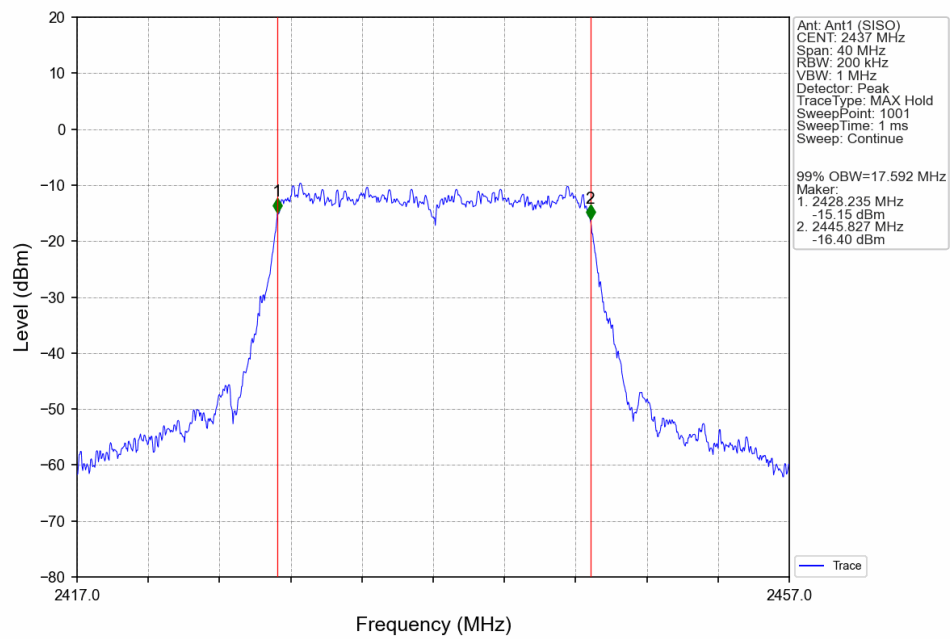
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



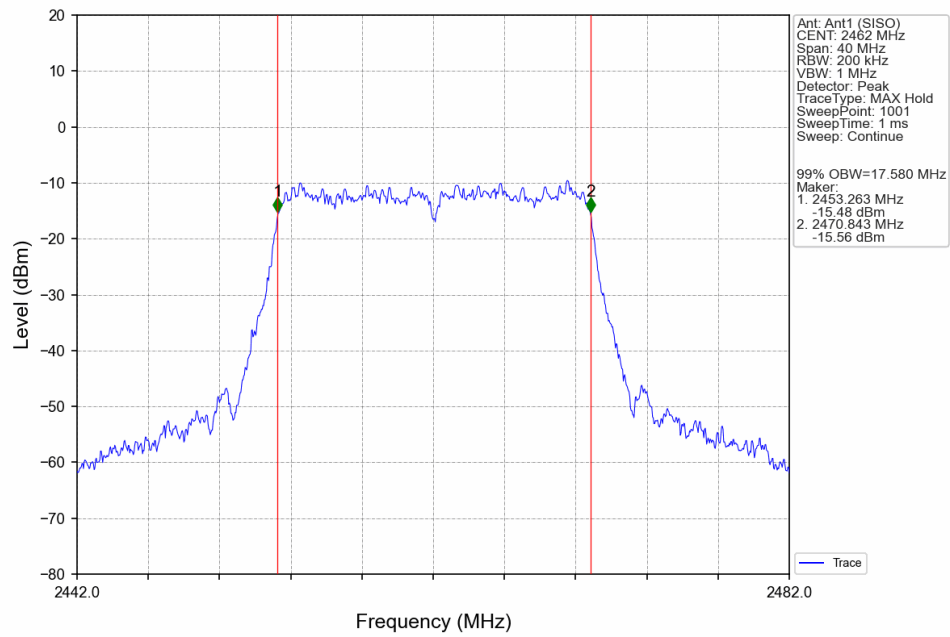
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



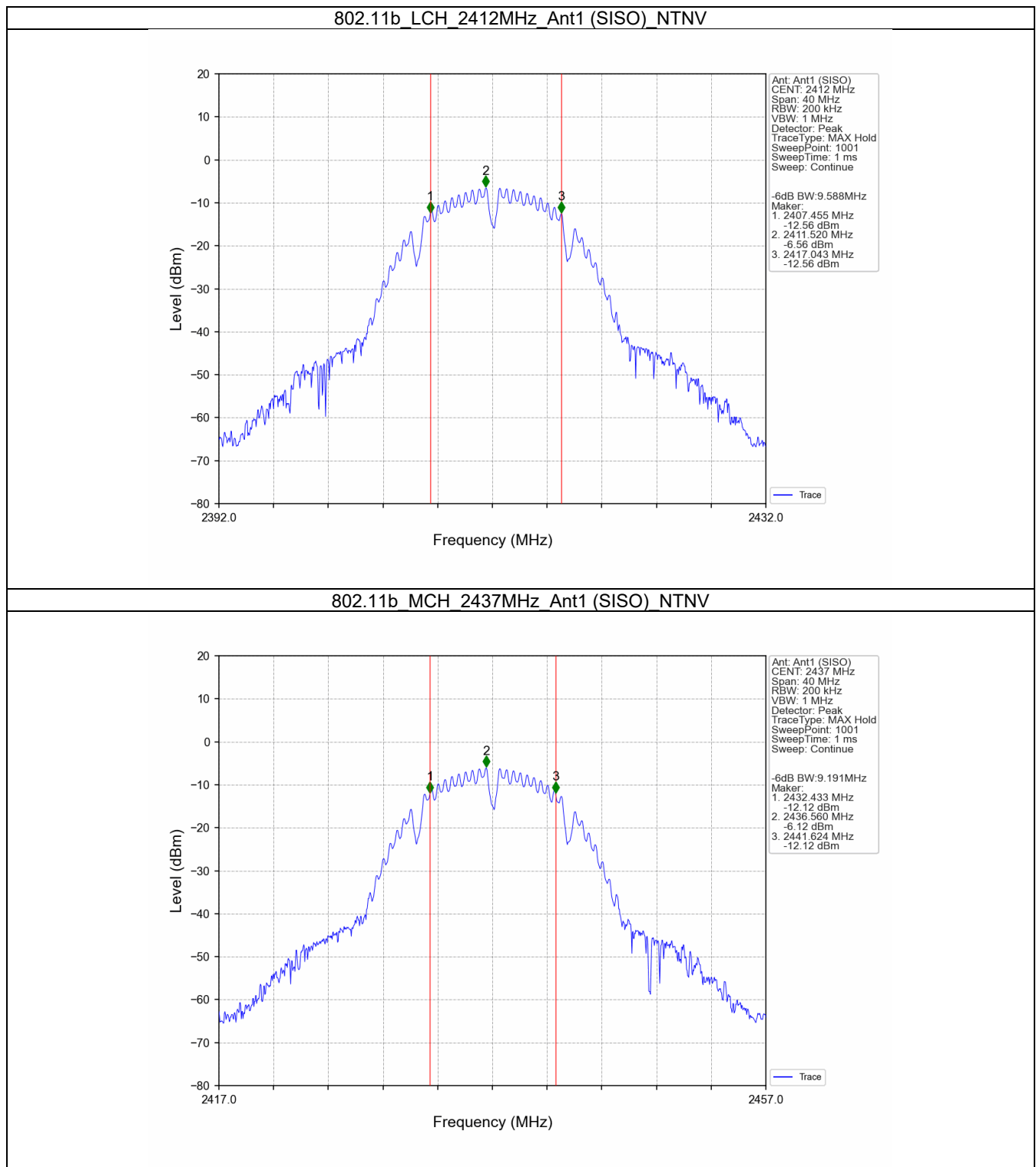
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



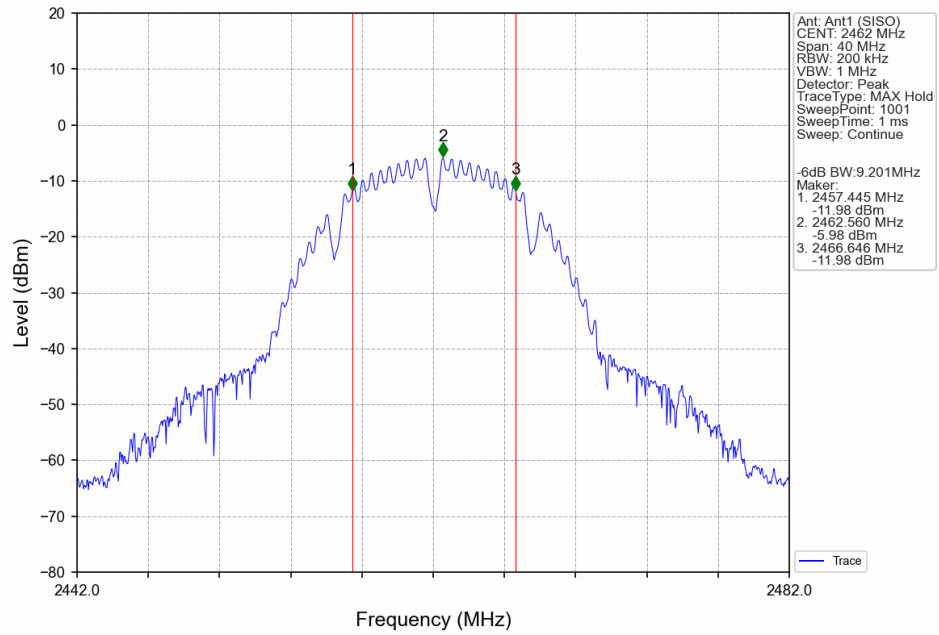
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



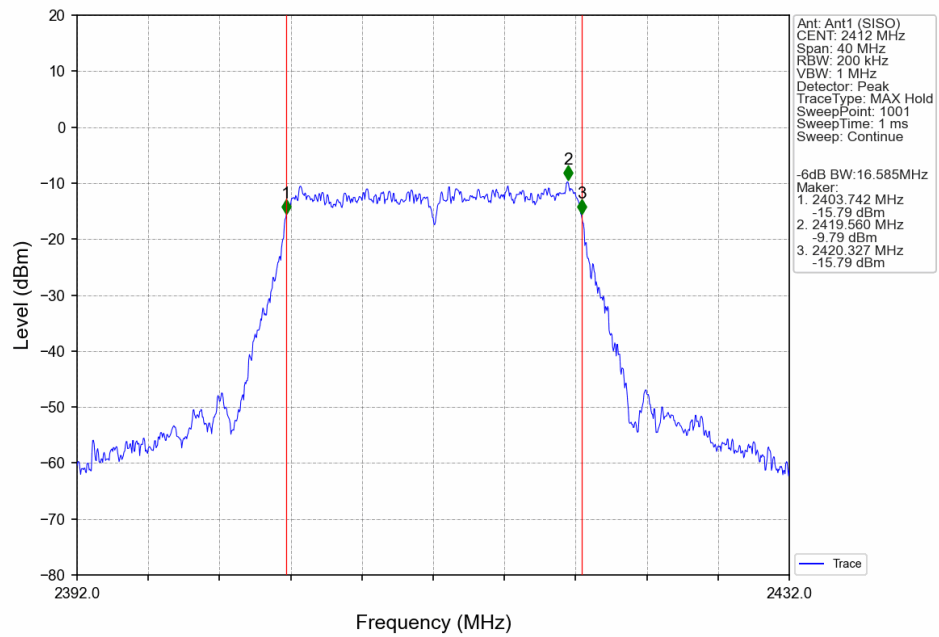
2.2.2 6dB BW



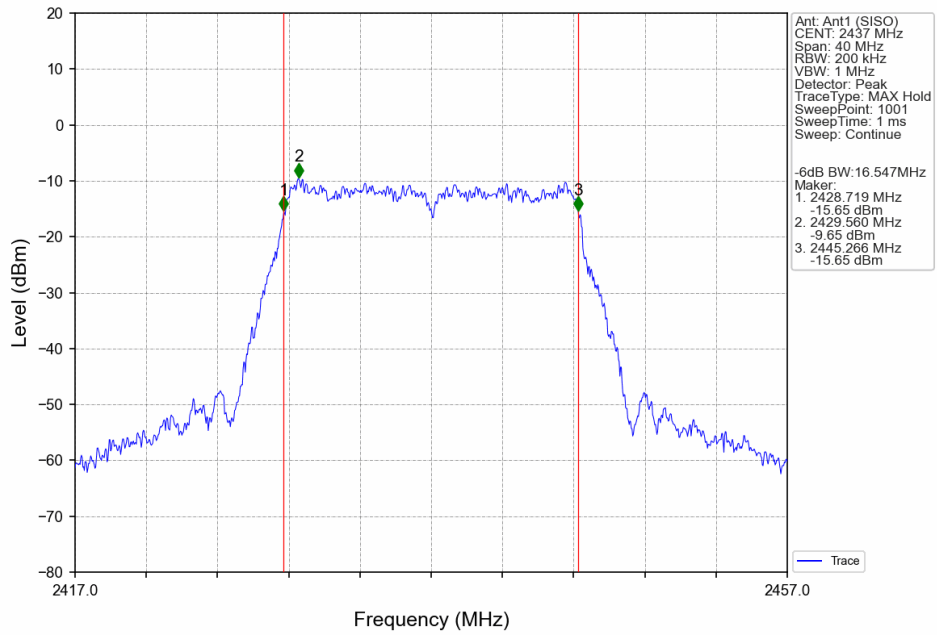
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



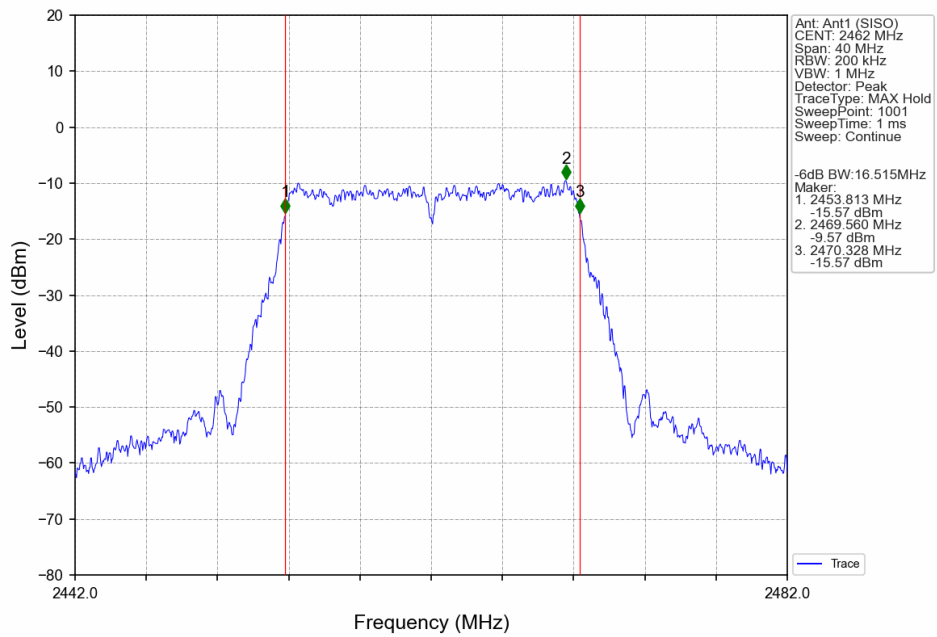
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



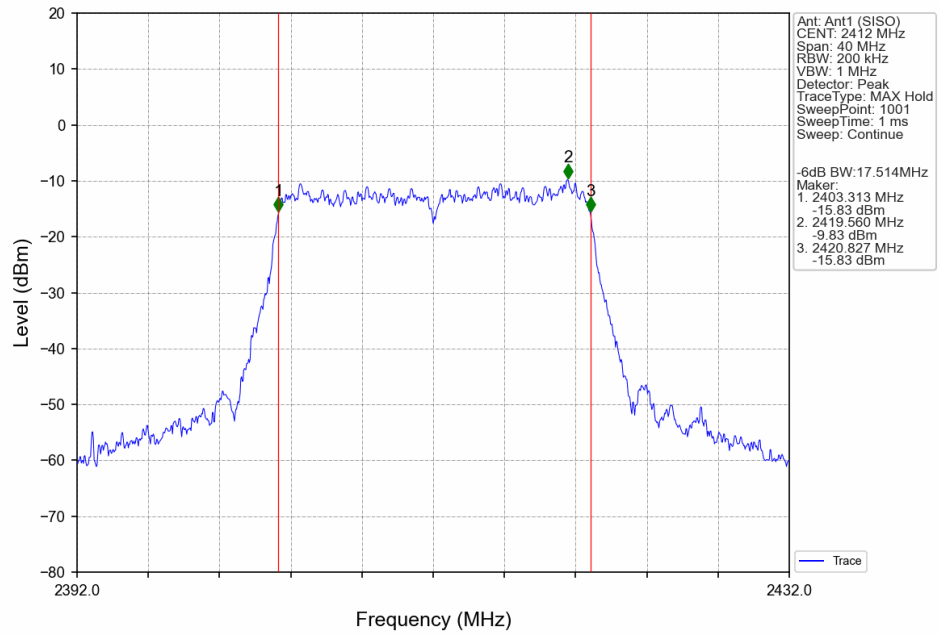
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



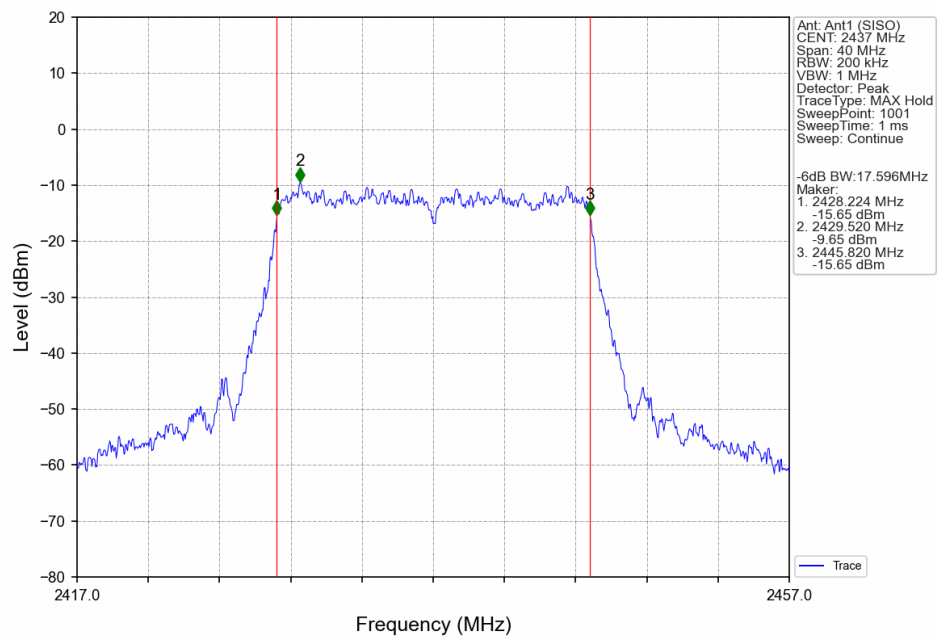
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



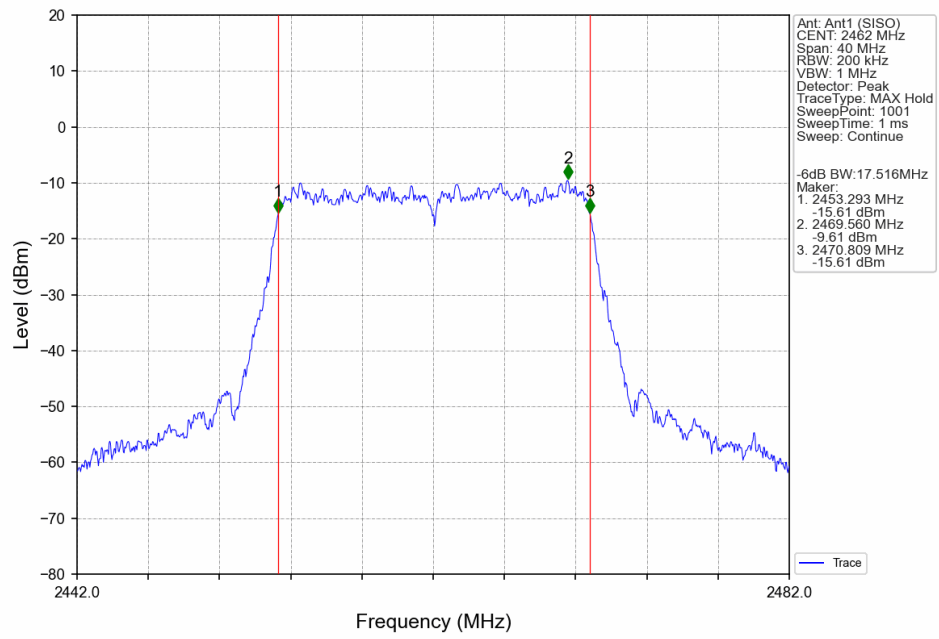
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	4.38	<=30	Pass
		2437	4.66	<=30	Pass
		2462	4.97	<=30	Pass
802.11g	SISO	2412	7.13	<=30	Pass
		2437	7.41	<=30	Pass
		2462	7.65	<=30	Pass
802.11n (HT20)	SISO	2412	7.23	<=30	Pass
		2437	7.46	<=30	Pass
		2462	7.70	<=30	Pass

4. Maximum Power Spectral Density

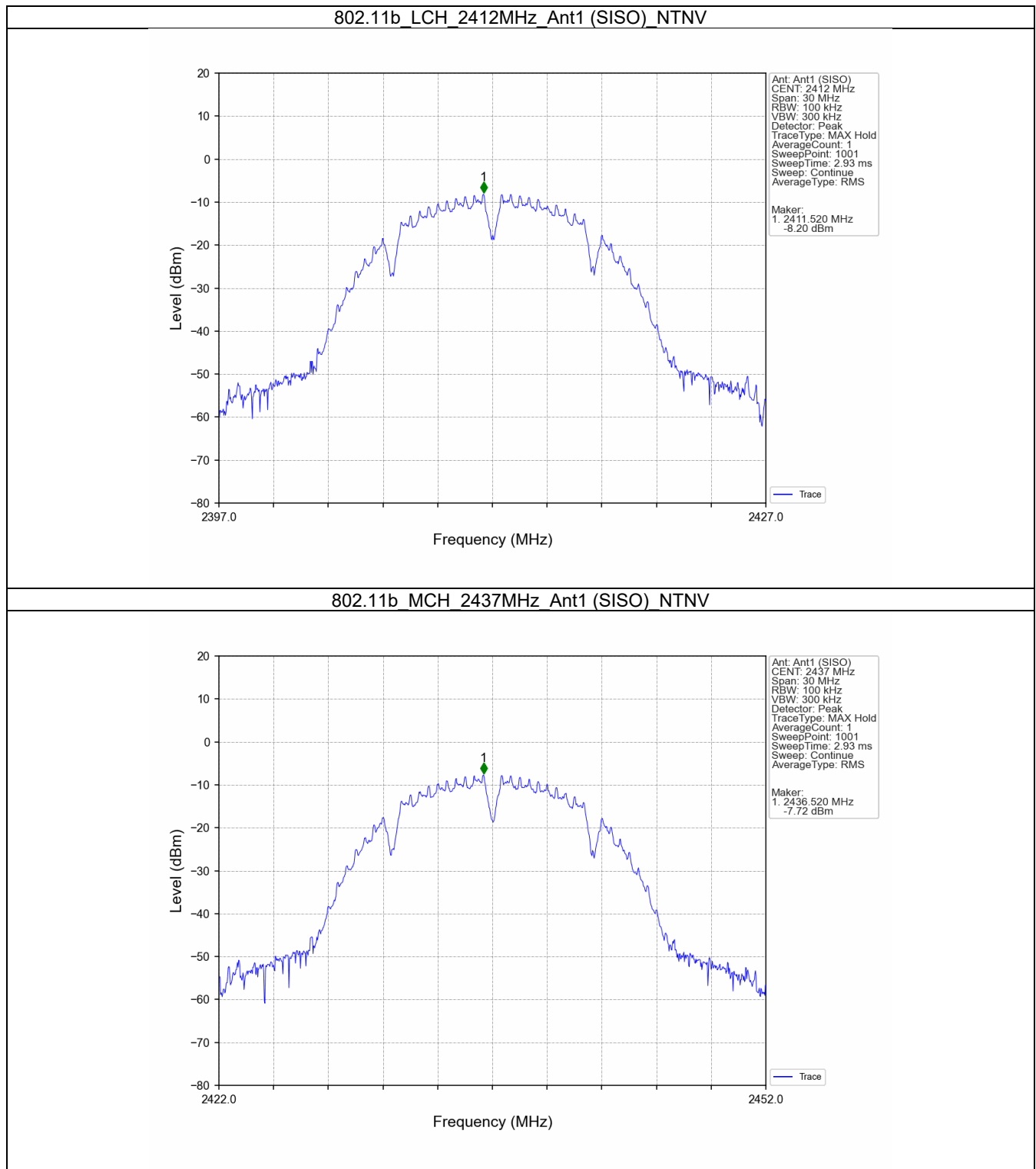
4.1 Test Result

4.1.1 PSD

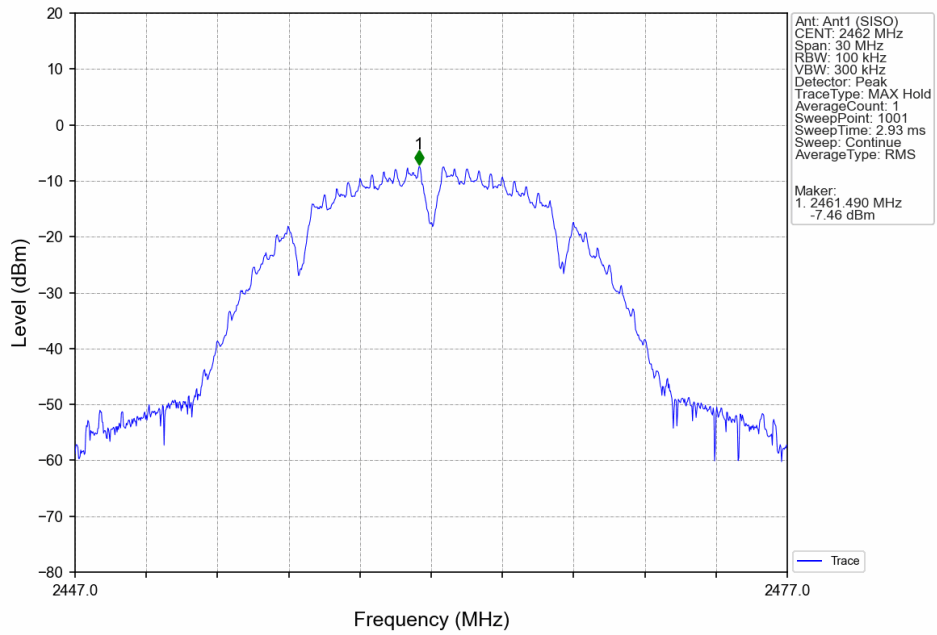
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.20	<=8	Pass
		2437	-7.72	<=8	Pass
		2462	-7.46	<=8	Pass
802.11g	SISO	2412	-10.65	<=8	Pass
		2437	-10.80	<=8	Pass
		2462	-10.48	<=8	Pass
802.11n (HT20)	SISO	2412	-10.66	<=8	Pass
		2437	-10.49	<=8	Pass
		2462	-10.43	<=8	Pass

4.2 Test Graph

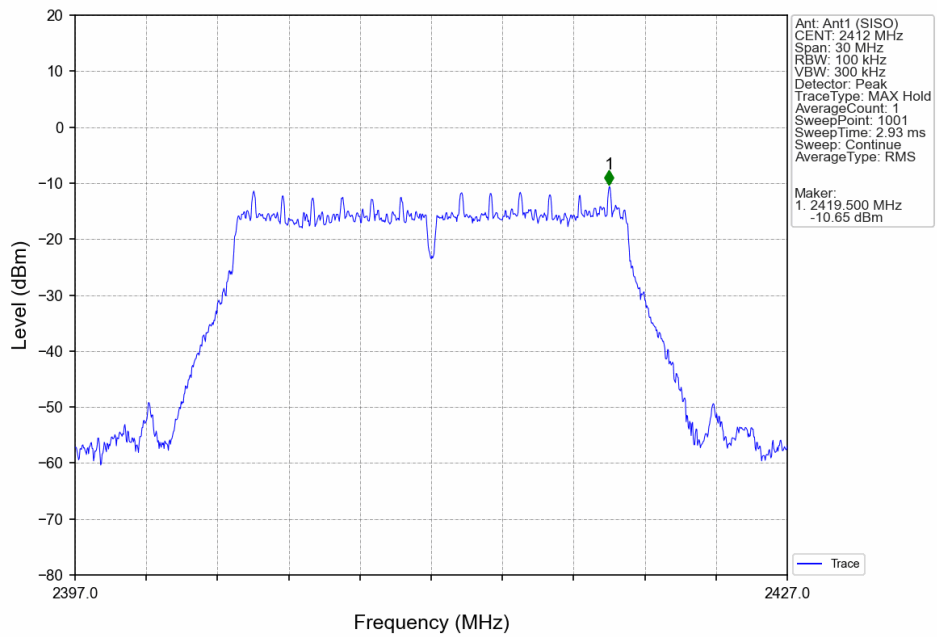
4.2.1 PSD



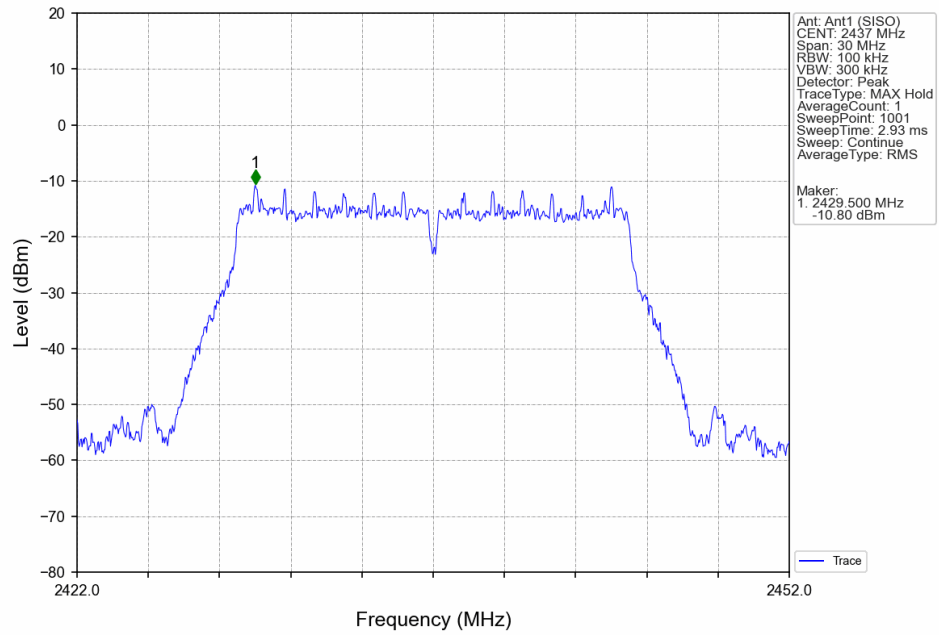
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



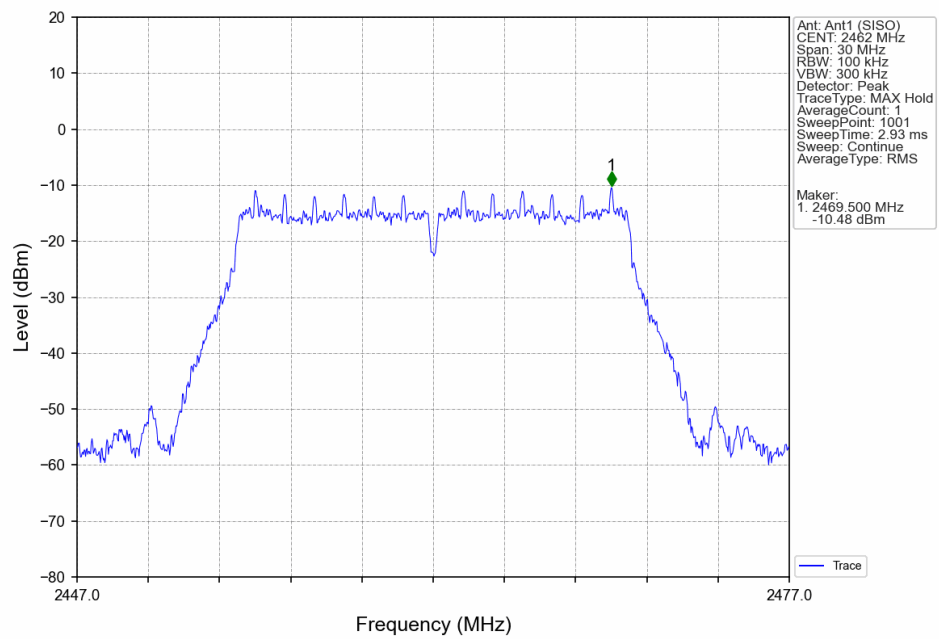
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



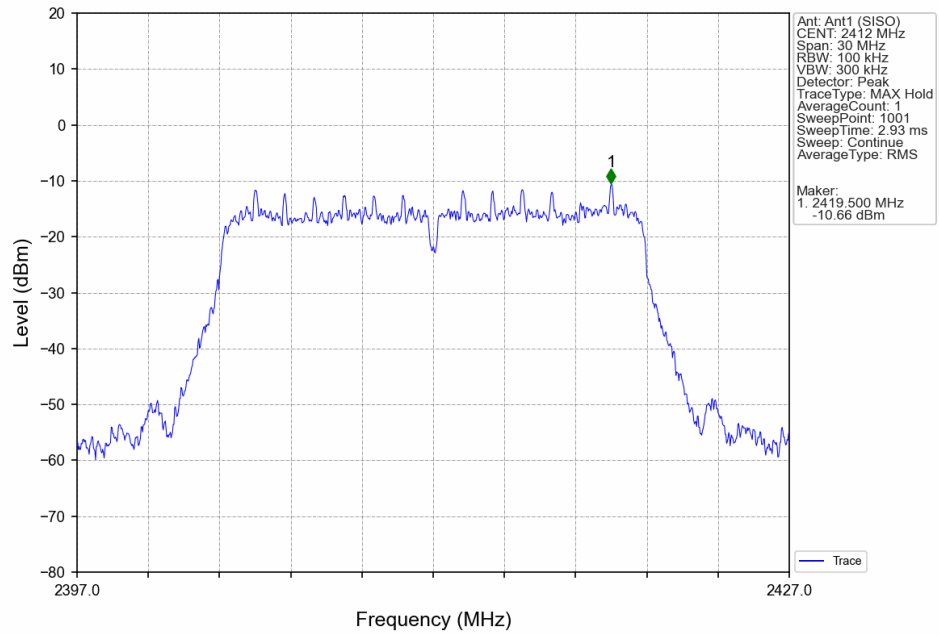
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



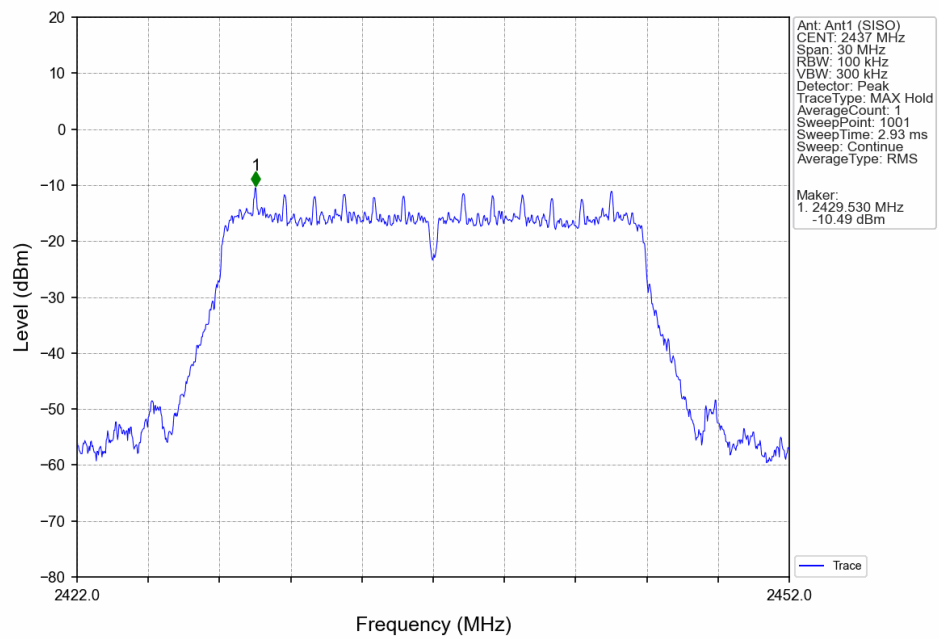
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



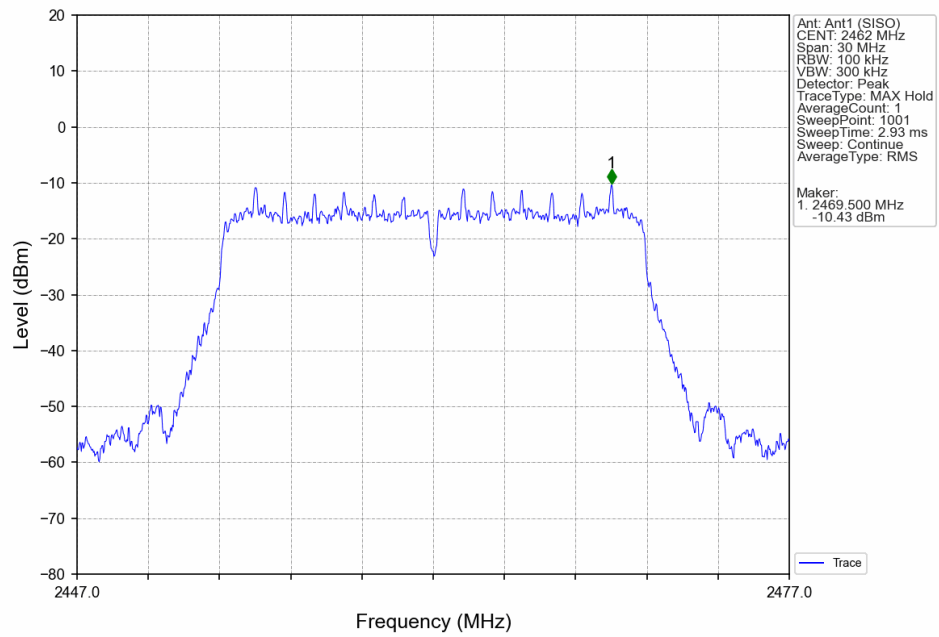
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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

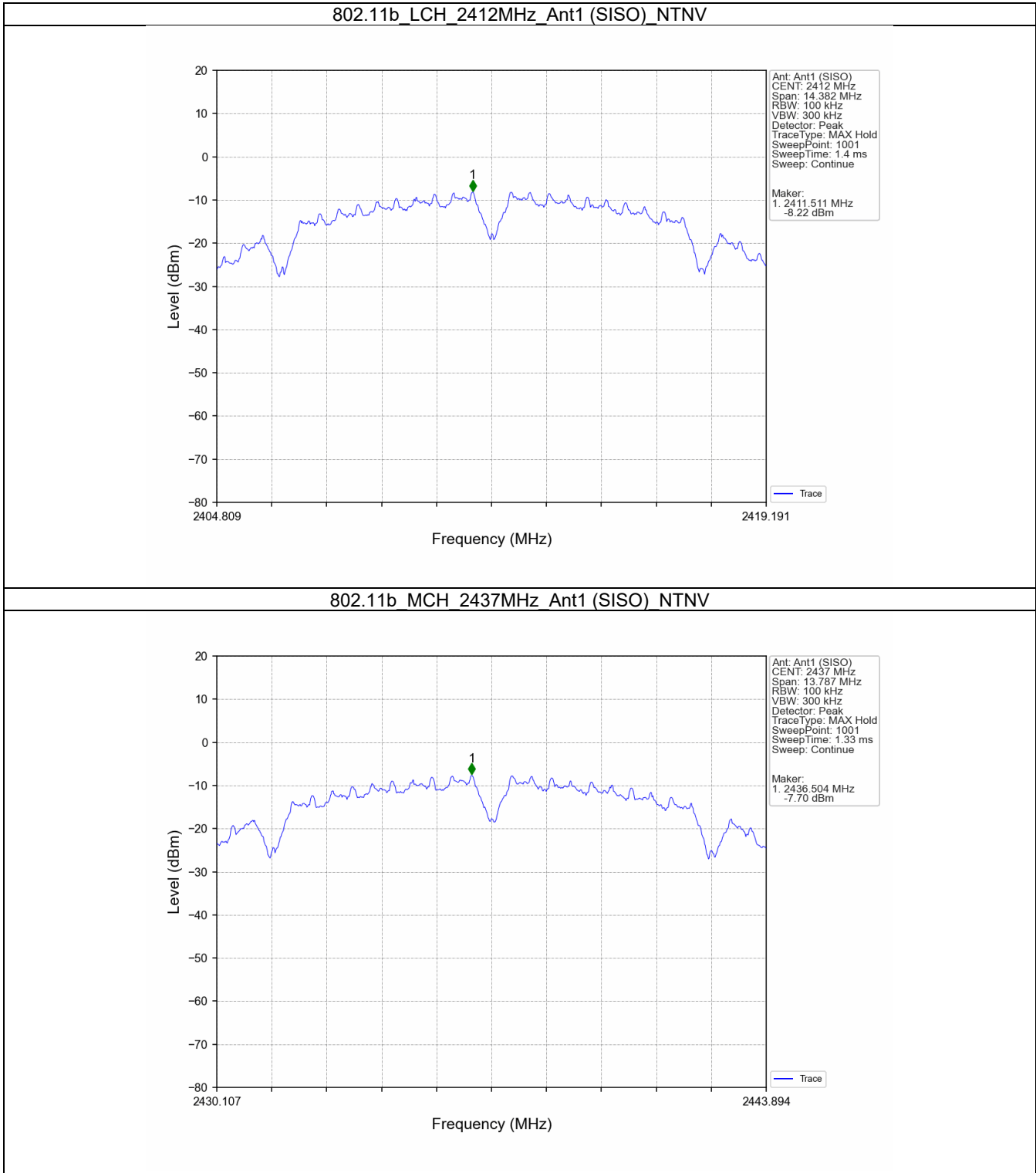
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-8.22
		2437	1	-7.70
		2462	1	-7.41
802.11g	SISO	2412	1	-10.64
		2437	1	-10.62
		2462	1	-10.47
802.11n (HT20)	SISO	2412	1	-10.67
		2437	1	-10.75
		2462	1	-10.41

5.1.2 CSE

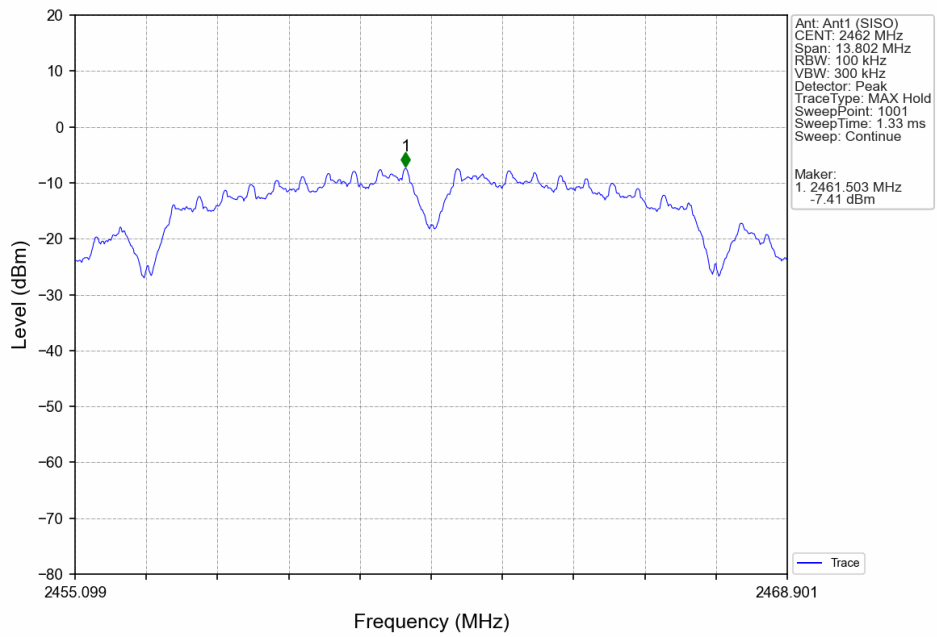
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-8.22	-28.22	Pass
		2437	1	-7.70	-27.70	Pass
		2462	1	-7.41	-27.41	Pass
802.11g	SISO	2412	1	-10.64	-30.64	Pass
		2437	1	-10.62	-30.62	Pass
		2462	1	-10.47	-30.47	Pass
802.11n (HT20)	SISO	2412	1	-10.67	-30.67	Pass
		2437	1	-10.75	-30.75	Pass
		2462	1	-10.41	-30.41	Pass

5.2 Test Graph

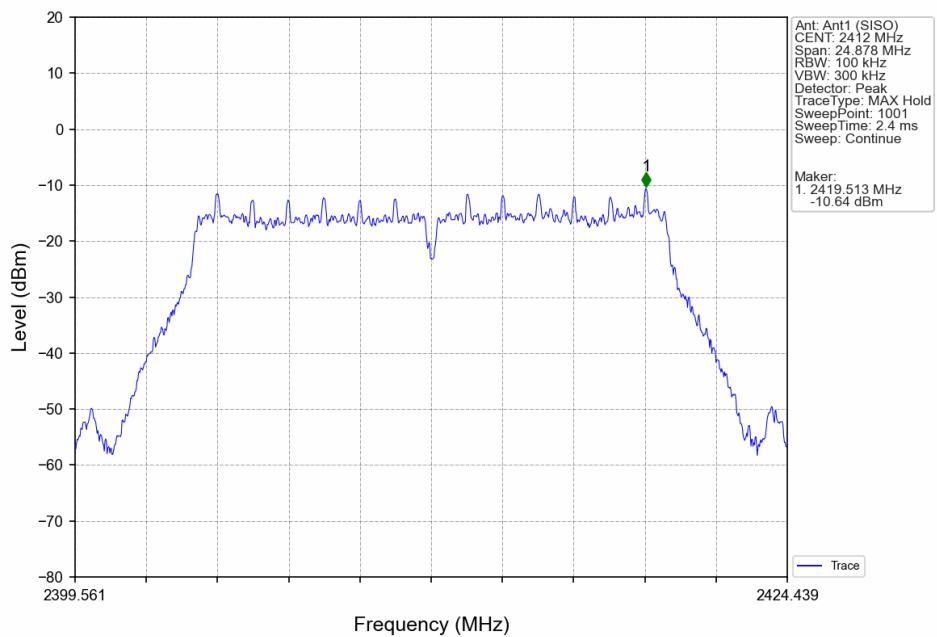
5.2.1 Ref



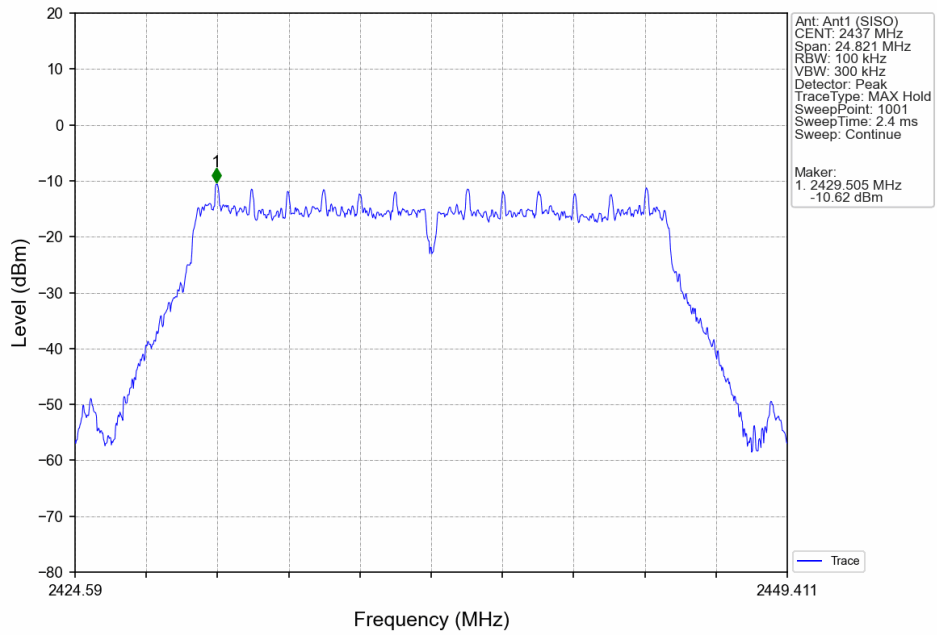
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



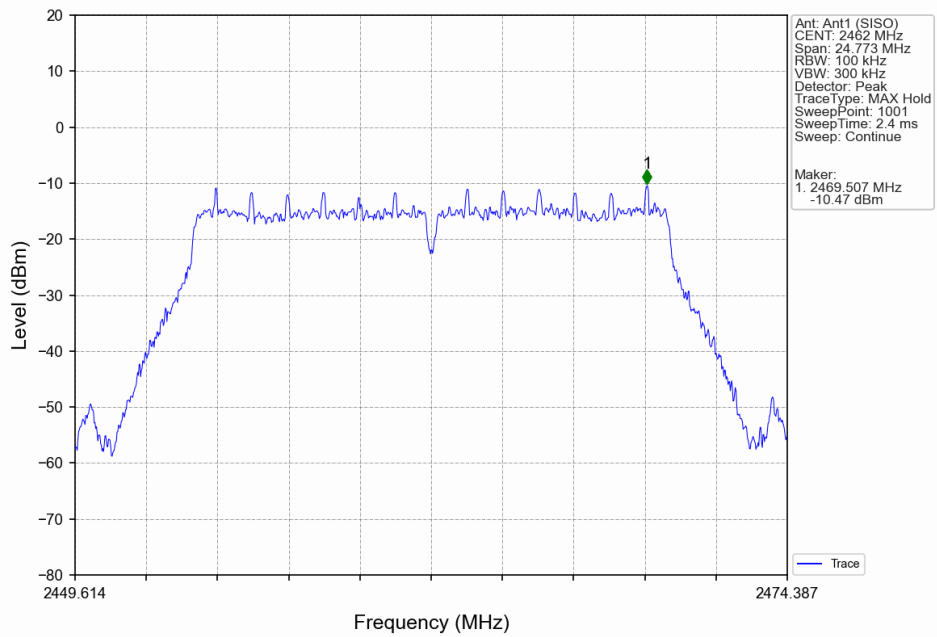
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



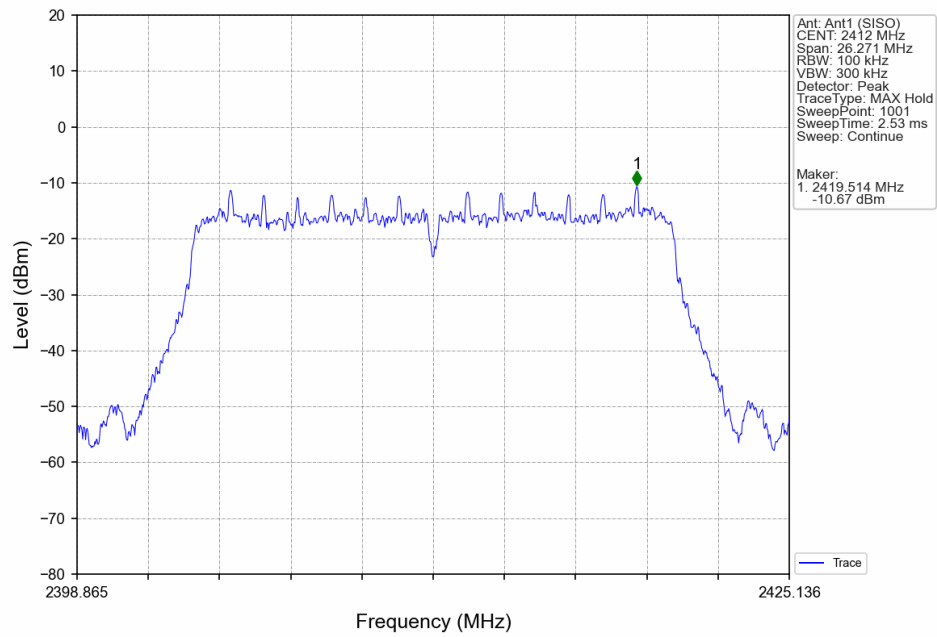
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



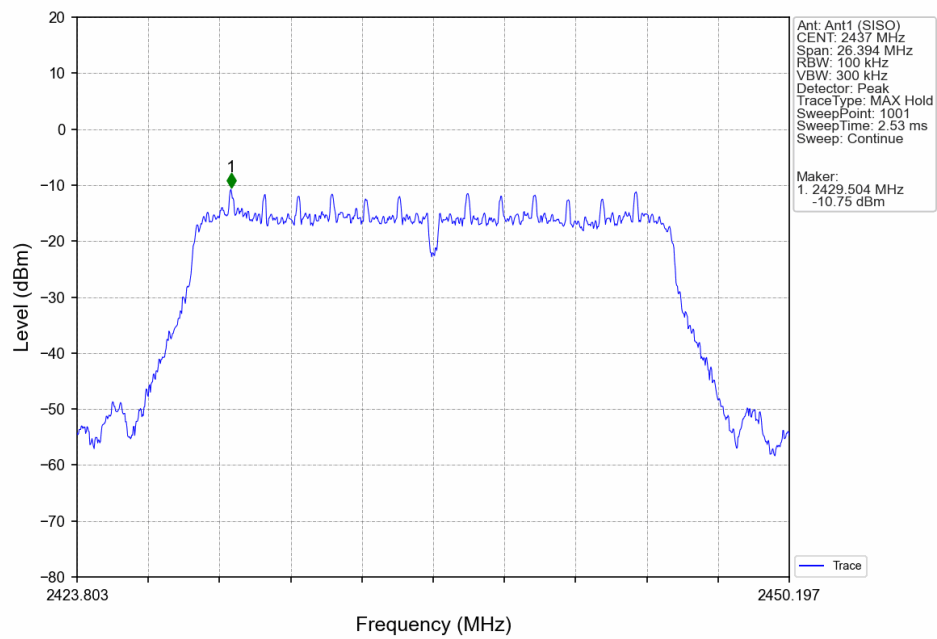
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



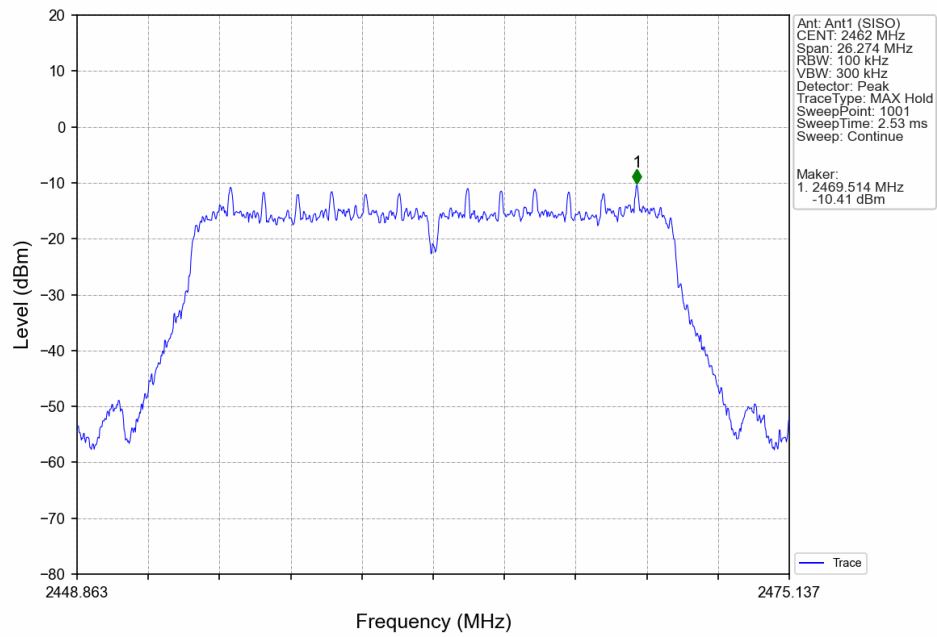
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



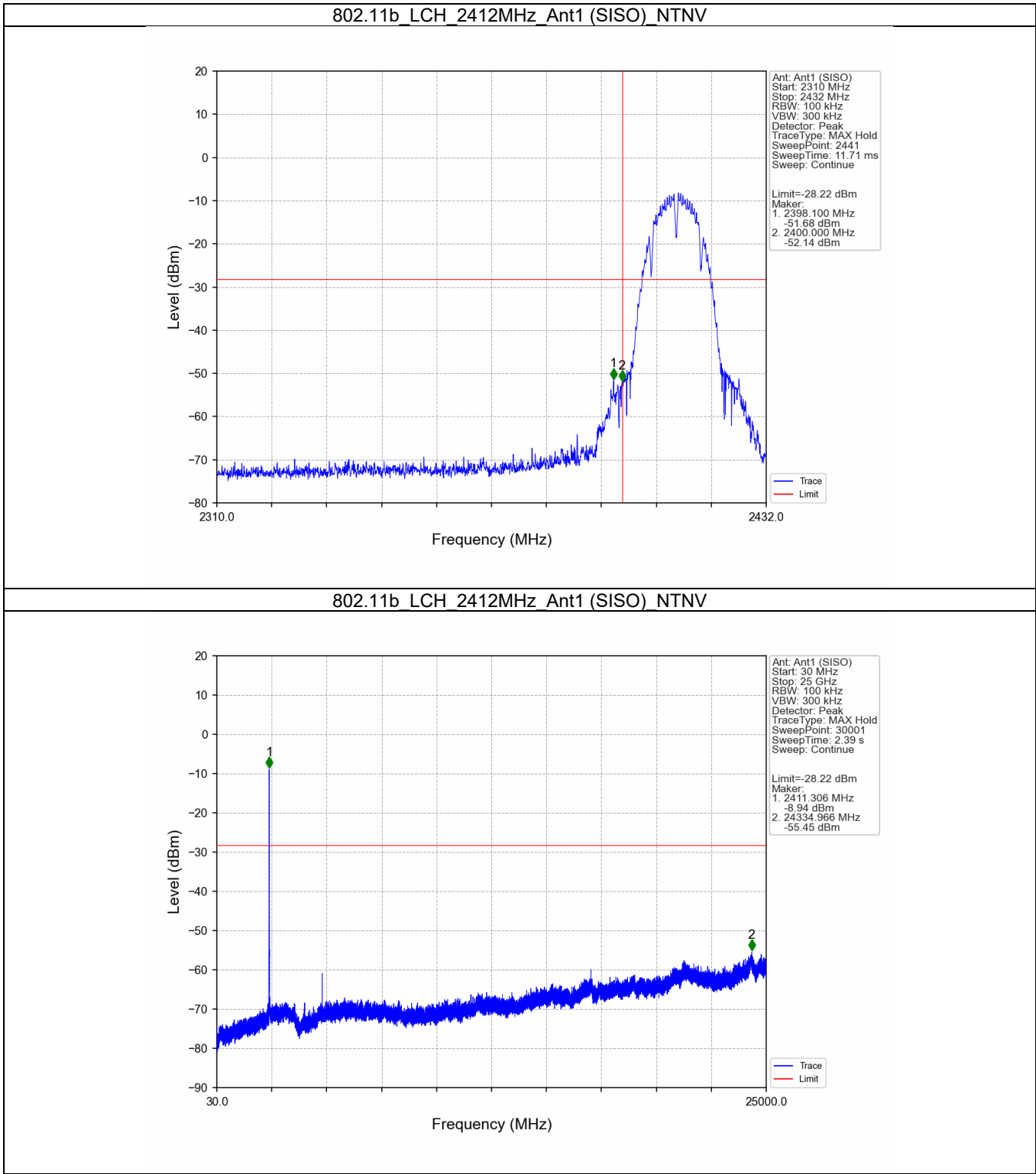
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



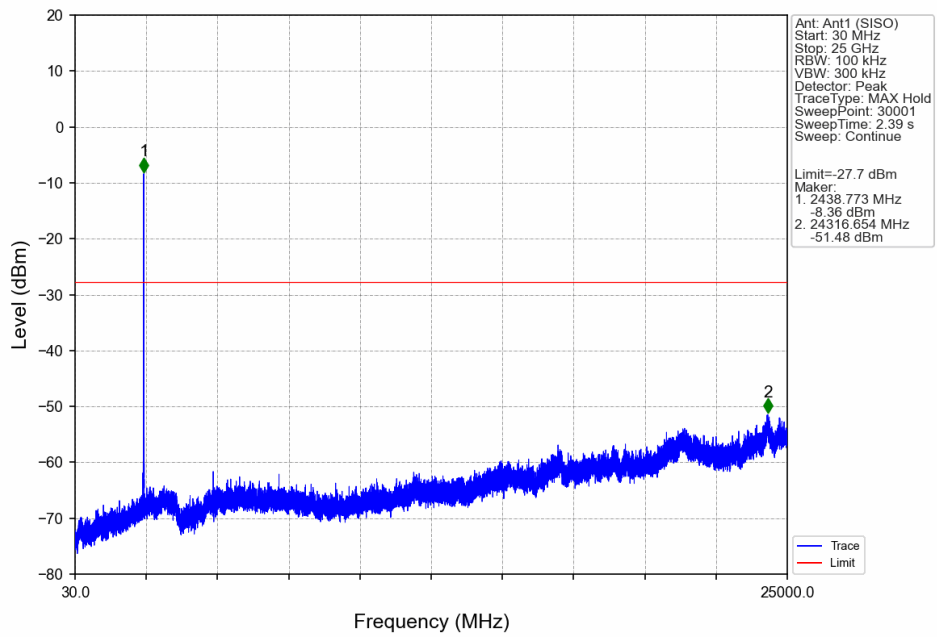
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



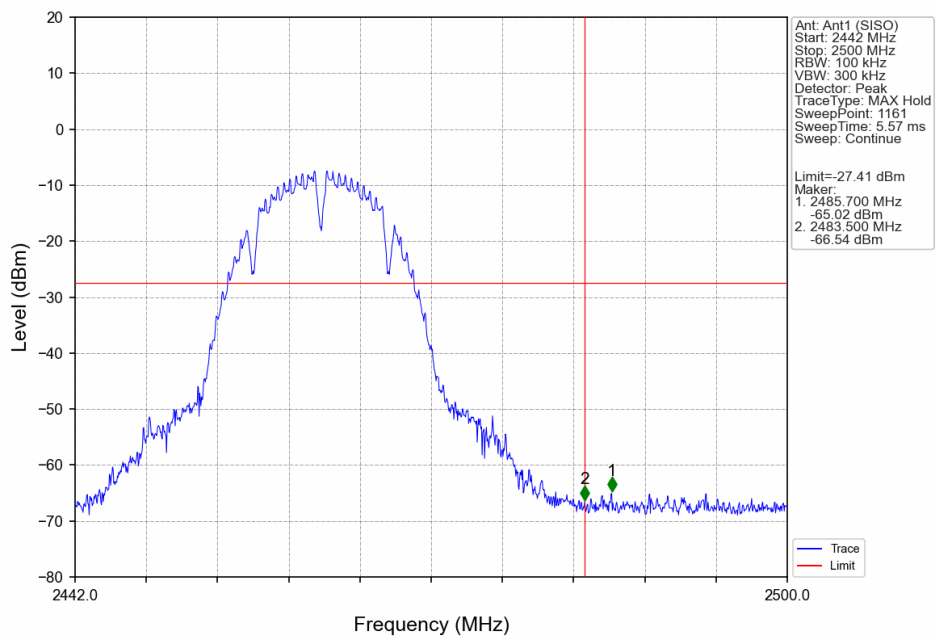
5.2.2 CSE



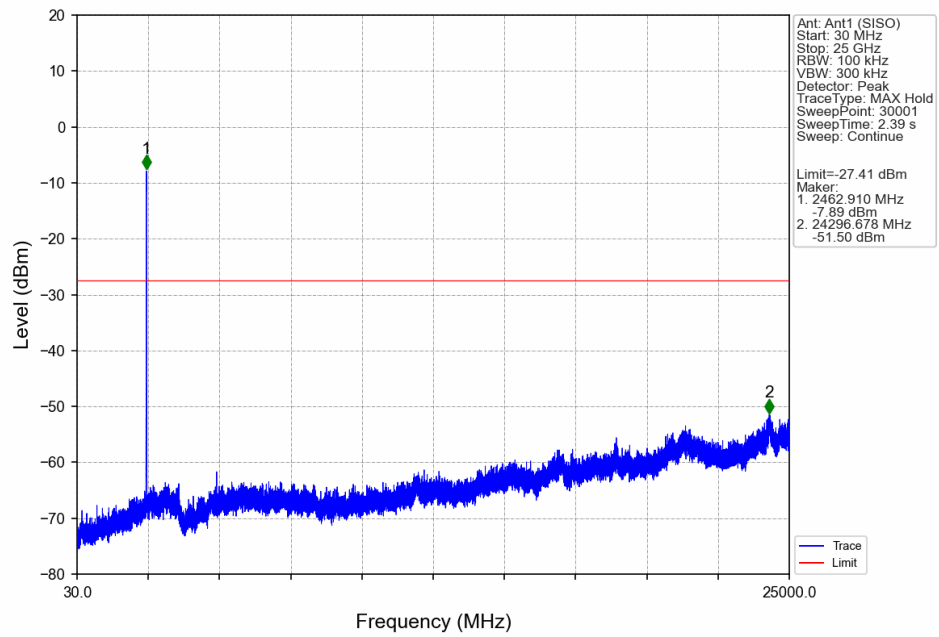
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



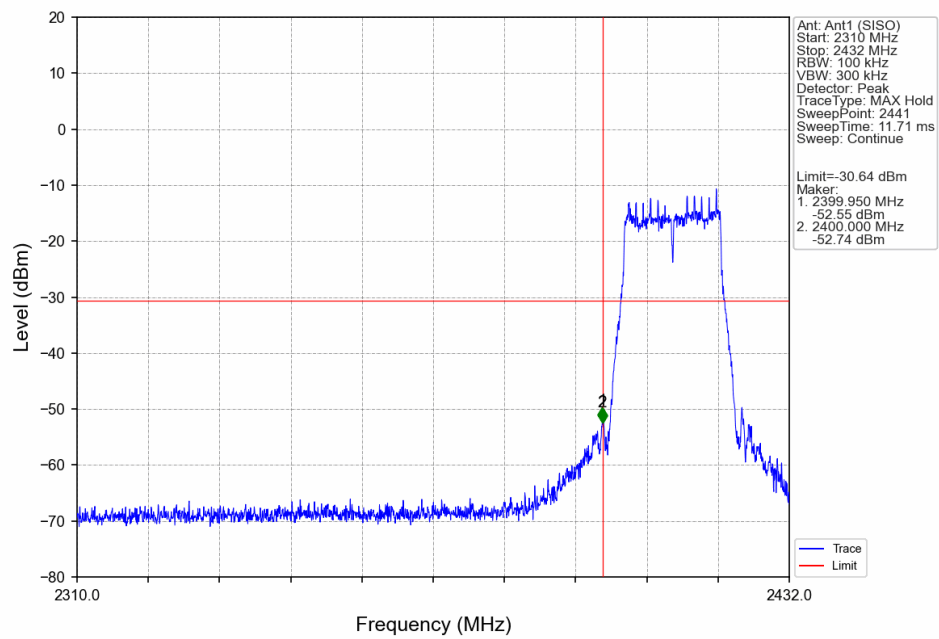
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



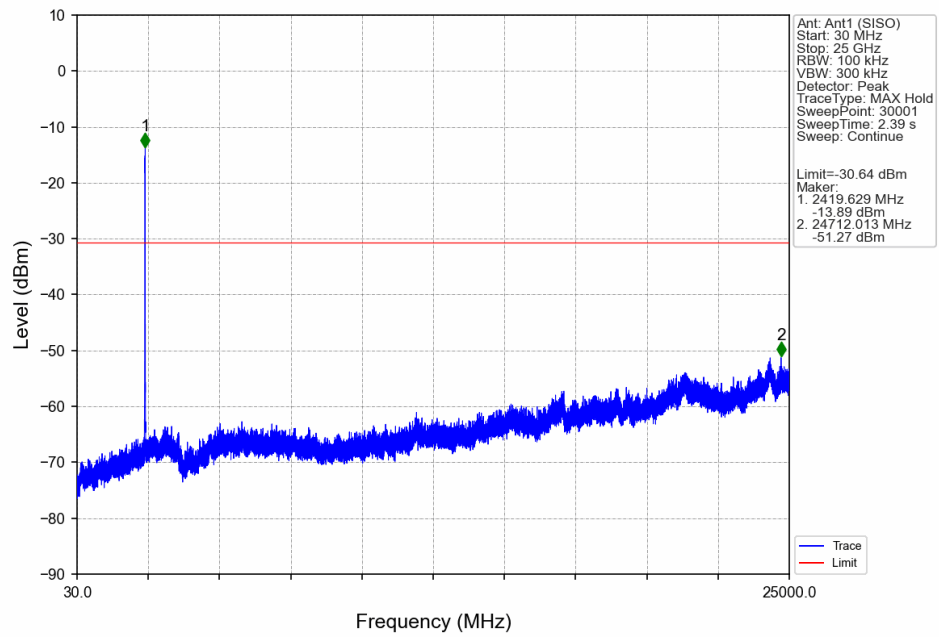
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



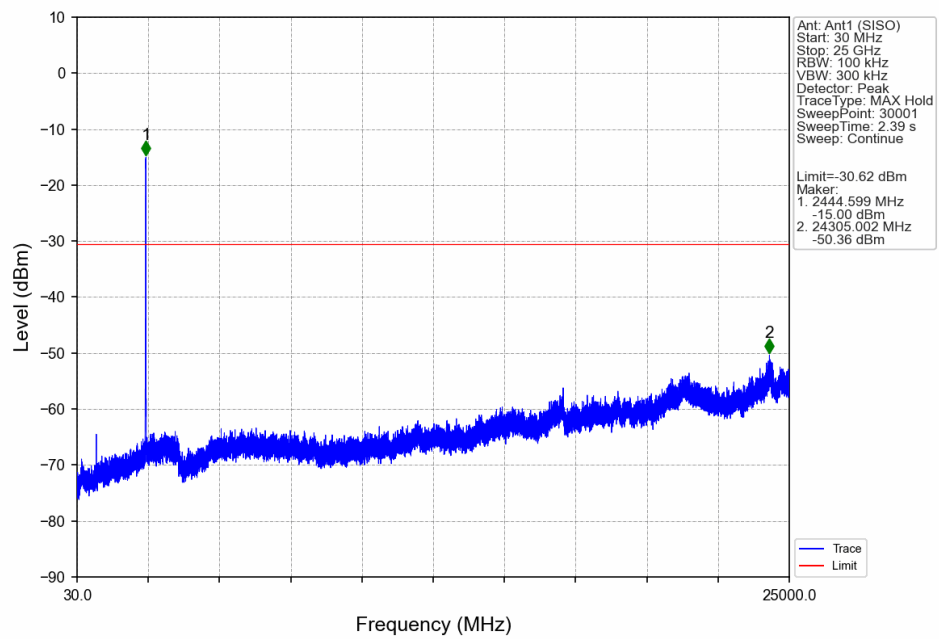
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



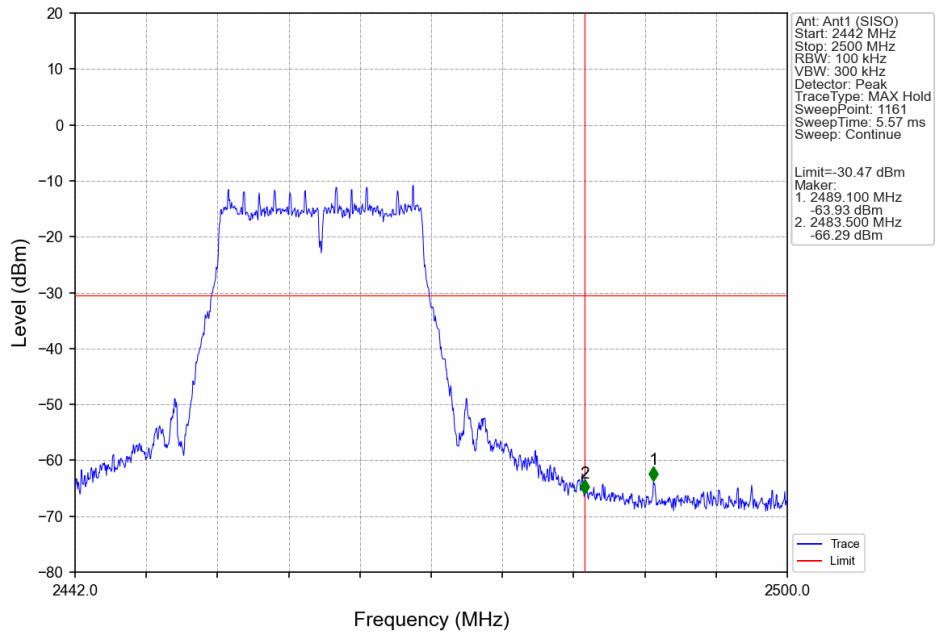
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



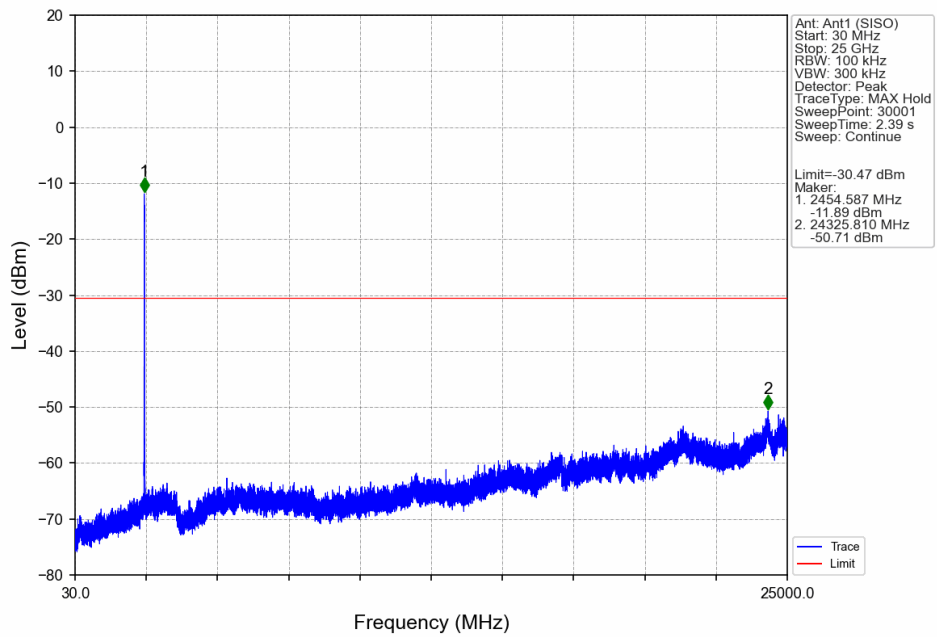
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



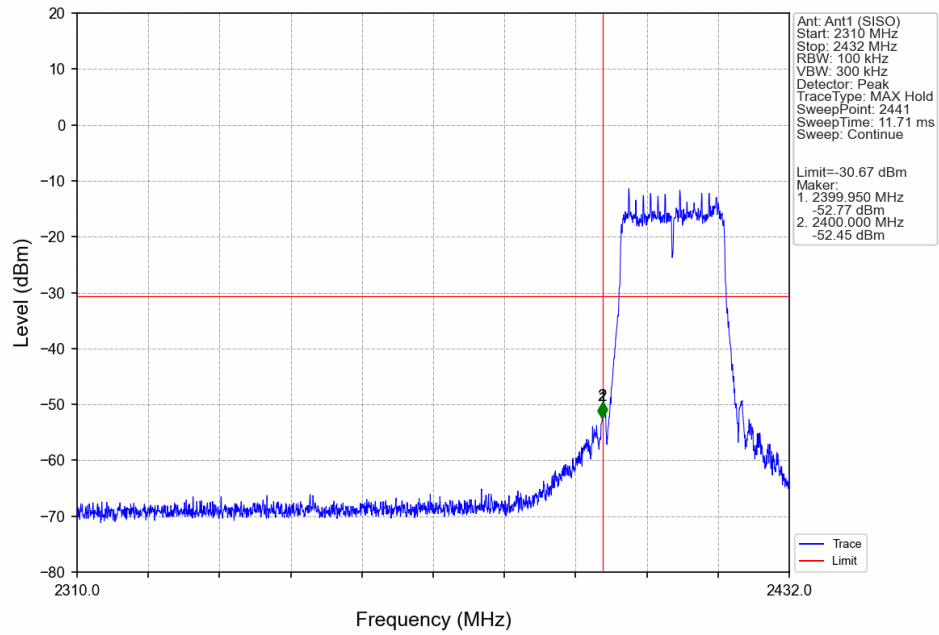
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



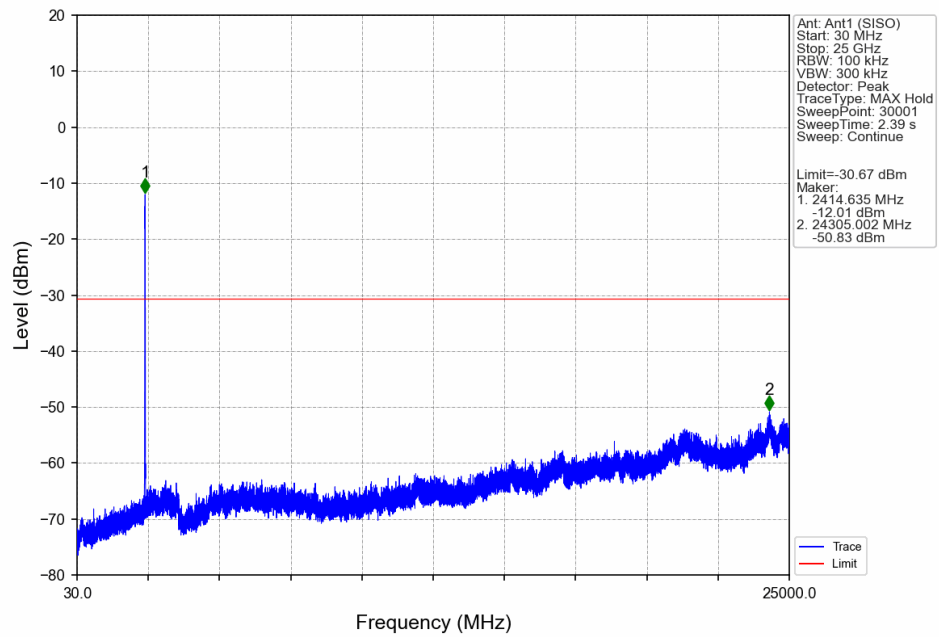
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



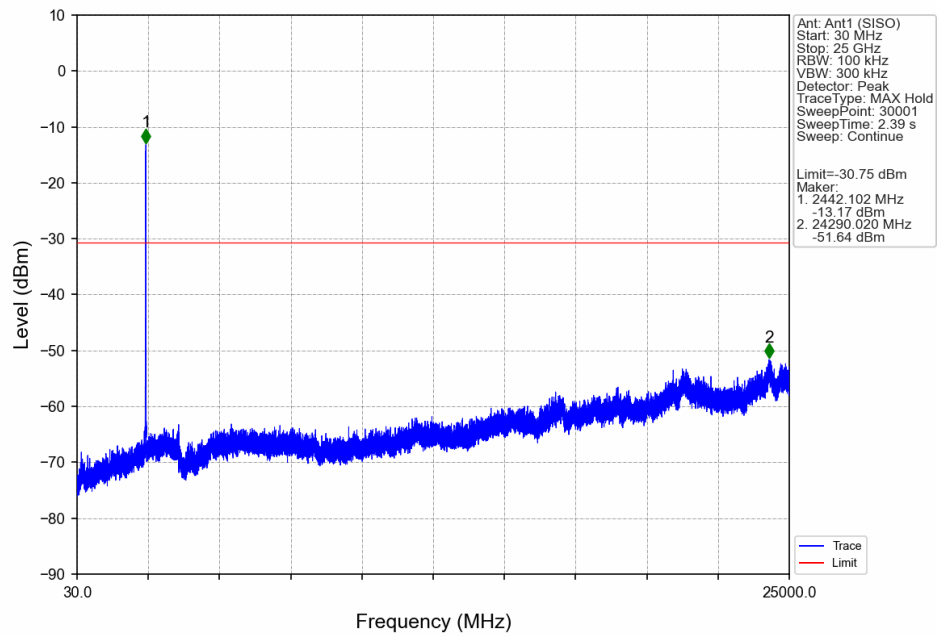
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



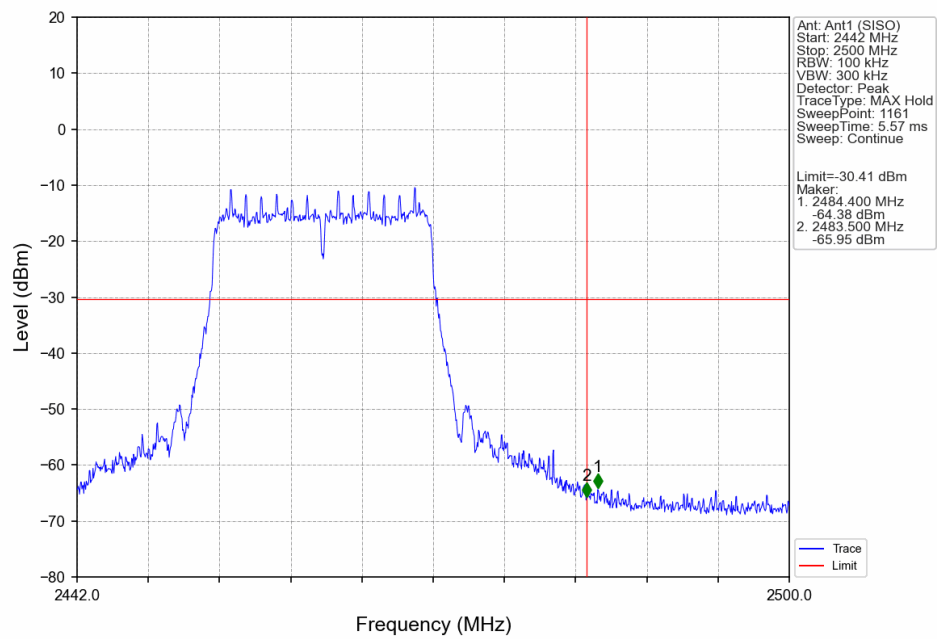
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

