

Appendix RF Test Data for 2.4GWIFI

Company: : Wuchao (Shenzhen) Technology Development Co., Ltd.

EUT : SMART AI GLASSES

FCC ID: : 2BMKL-M01PRO

Model Number : M01 Pro

Report No. : HTT202510709F02

Reviewed By : Heber He

1. Duty Cycle

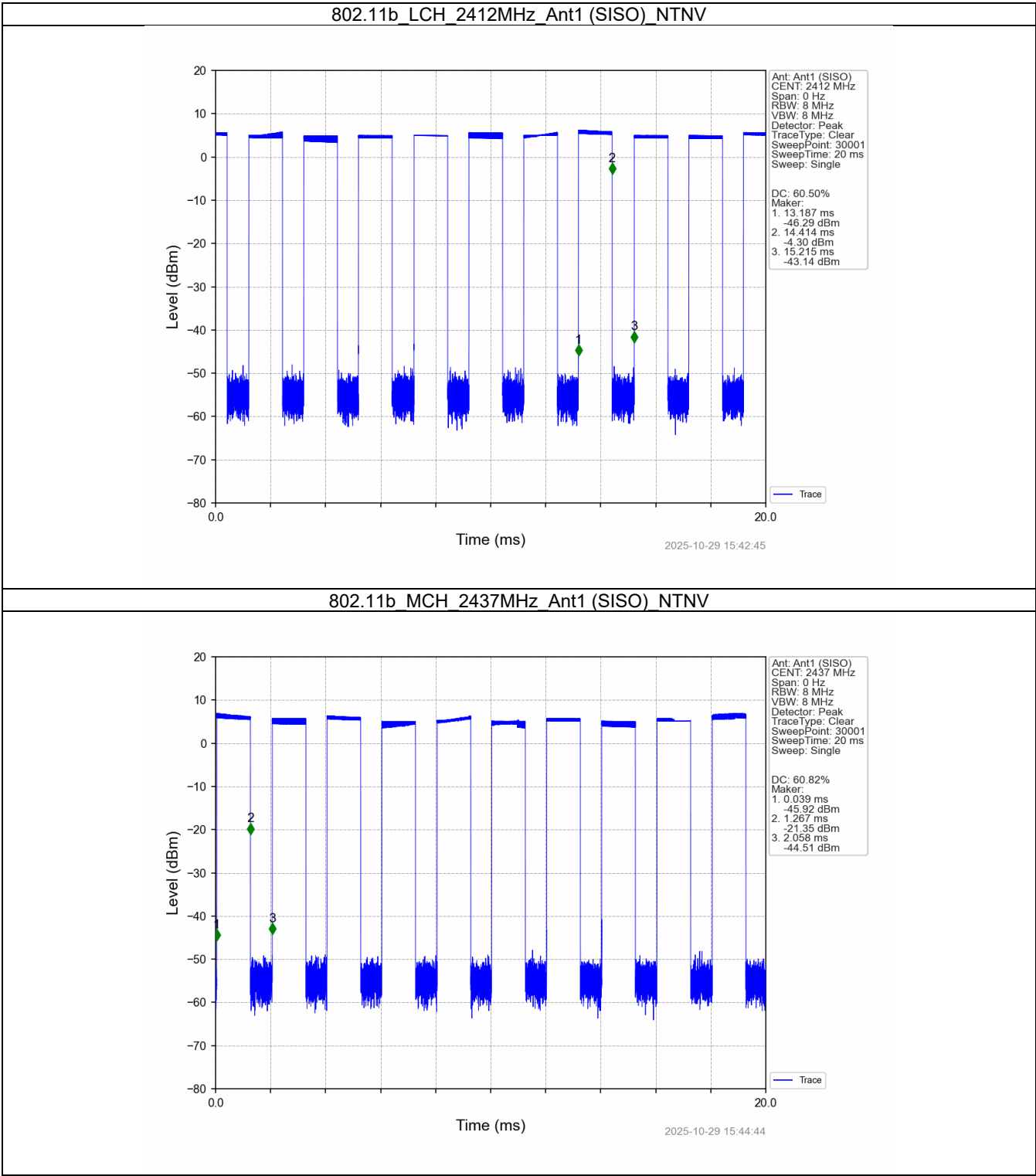
1.1 Test Result

1.1.1 Ant1

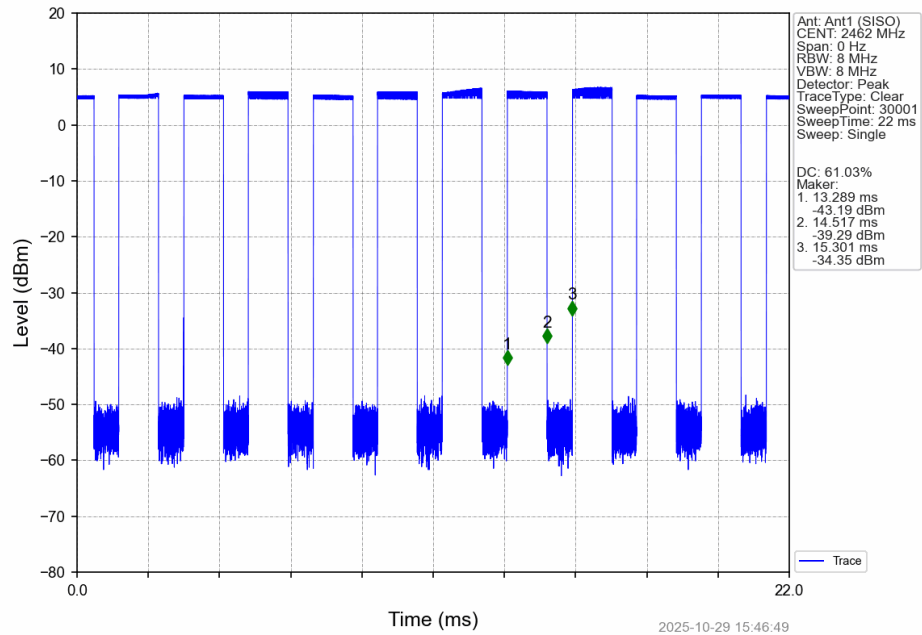
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	1.227	2.028	60.50	2.18	1.33
		2437	1.228	2.019	60.82	2.16	1.13
		2462	1.228	2.012	61.03	2.14	0.90
802.11g	SISO	2412	0.547	1.011	54.10	2.67	1.48
		2437	0.547	1.020	53.63	2.71	1.96
		2462	0.544	1.020	53.33	2.73	1.97
802.11n (HT20)	SISO	2412	0.548	1.024	53.52	2.72	1.95
		2437	0.549	1.015	54.09	2.67	1.99
		2462	0.550	1.015	54.19	2.66	1.48

1.2 Test Graph

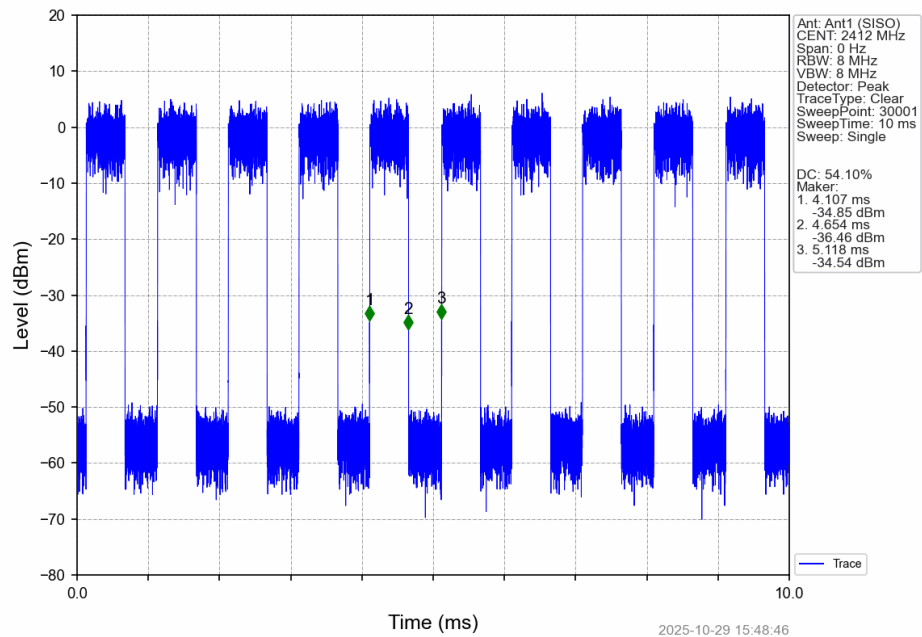
1.2.1 Ant1



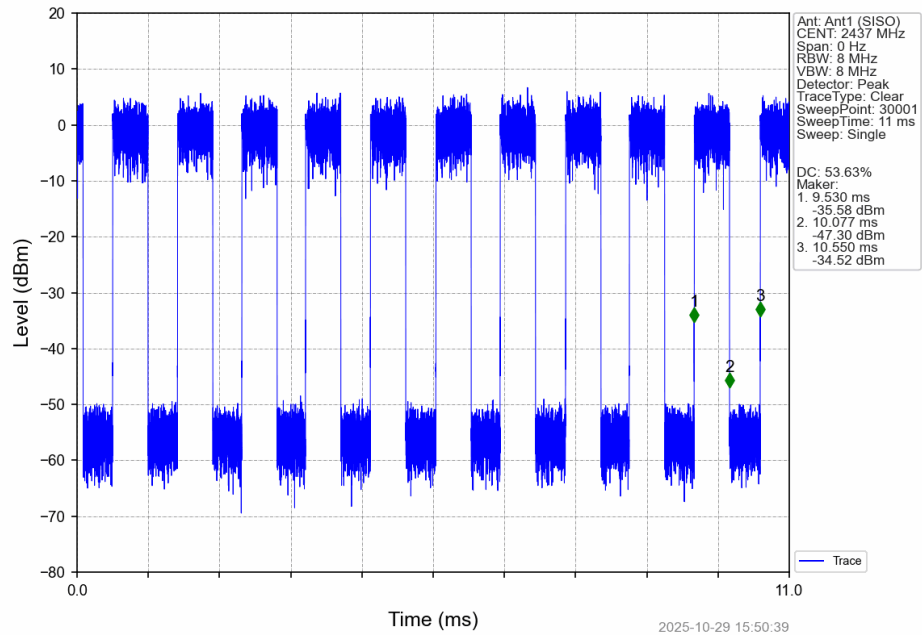
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



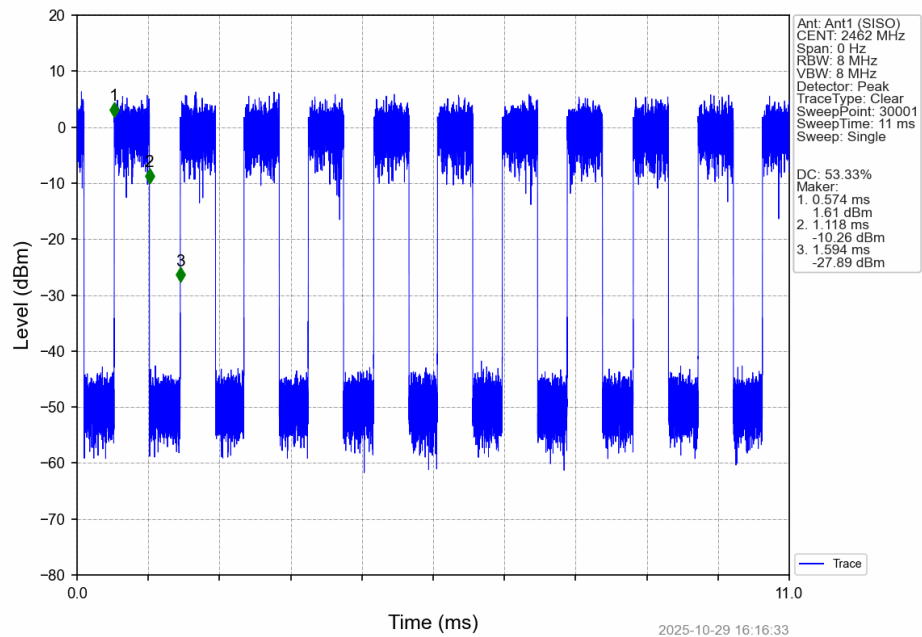
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



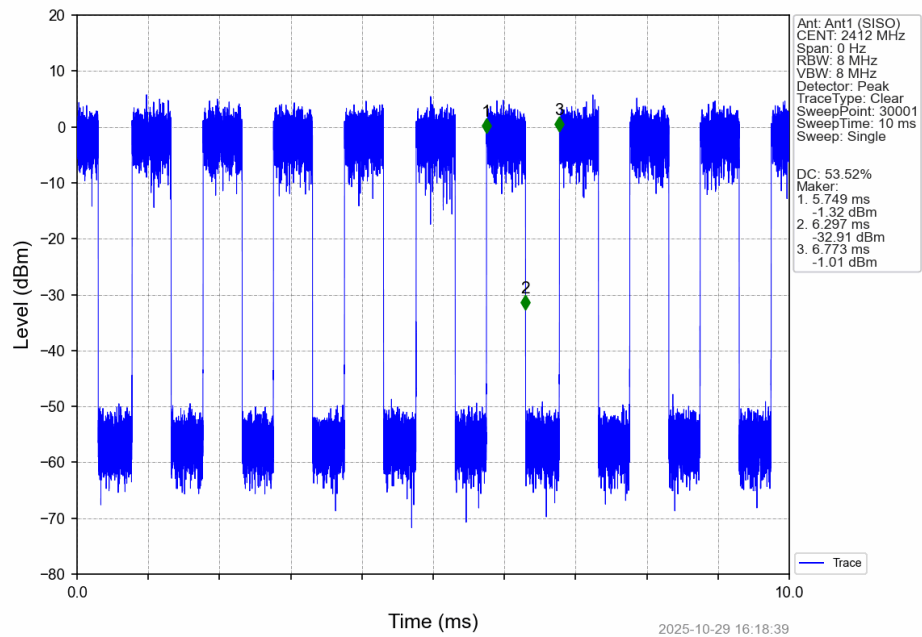
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



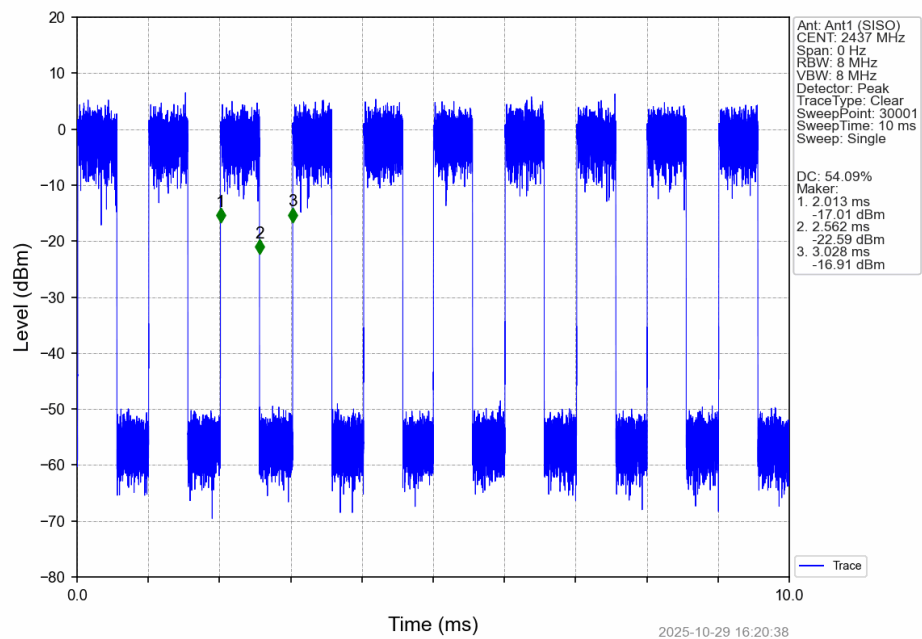
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



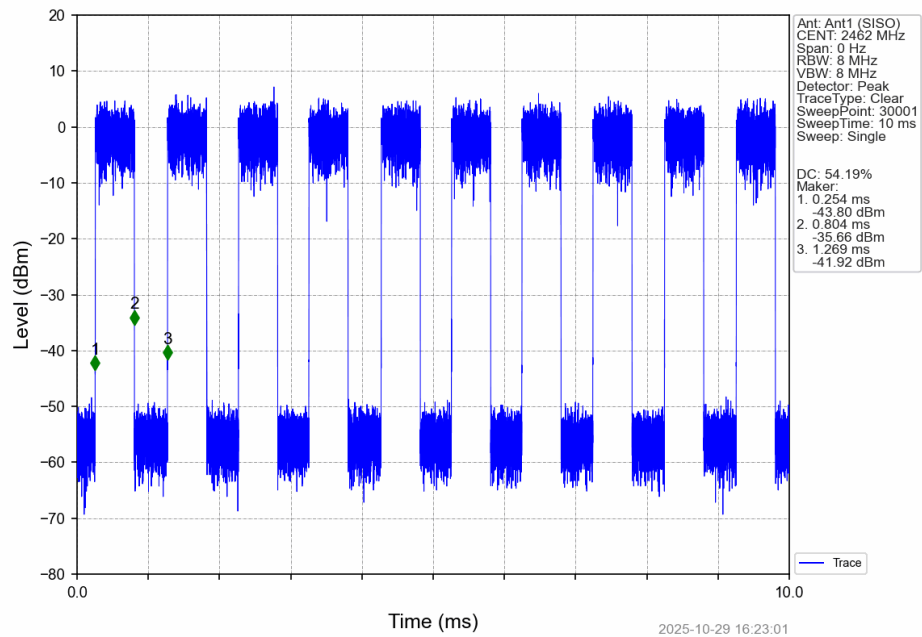
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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

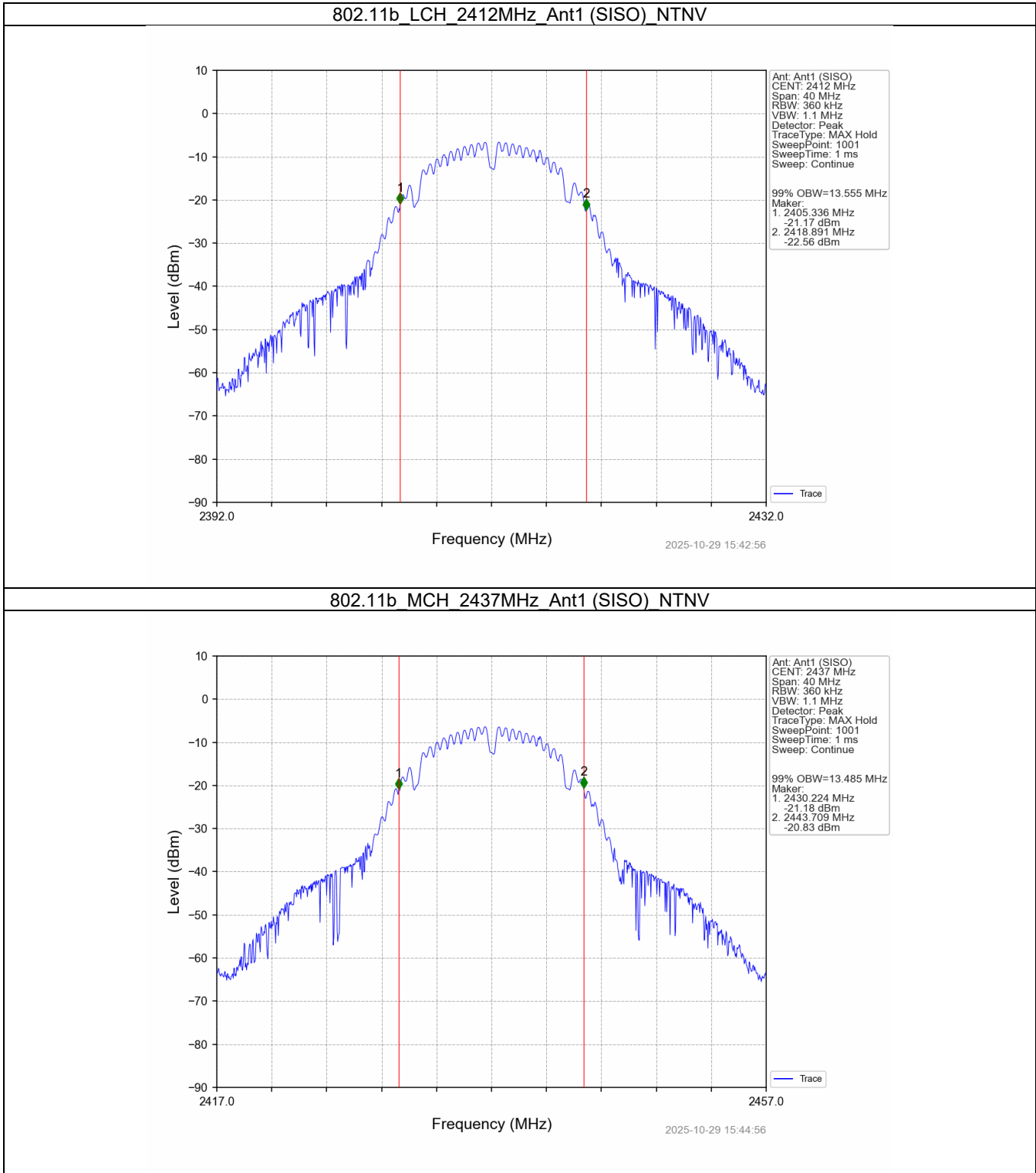
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.555	/	Pass
		2437	1	13.485	/	Pass
		2462	1	13.456	/	Pass
802.11g	SISO	2412	1	17.537	/	Pass
		2437	1	17.558	/	Pass
		2462	1	17.580	/	Pass
802.11n (HT20)	SISO	2412	1	18.058	/	Pass
		2437	1	18.016	/	Pass
		2462	1	18.033	/	Pass

2.1.2 6dB BW

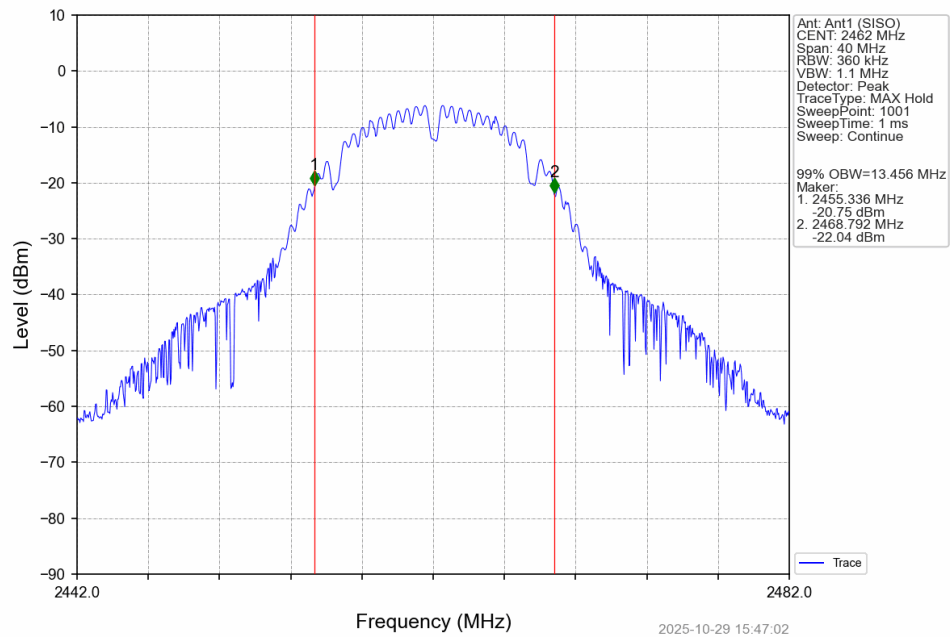
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.671	≥ 0.5	Pass
		2437	1	9.294	≥ 0.5	Pass
		2462	1	9.286	≥ 0.5	Pass
802.11g	SISO	2412	1	16.677	≥ 0.5	Pass
		2437	1	17.101	≥ 0.5	Pass
		2462	1	16.696	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.582	≥ 0.5	Pass
		2437	1	17.779	≥ 0.5	Pass
		2462	1	17.612	≥ 0.5	Pass

2.2 Test Graph

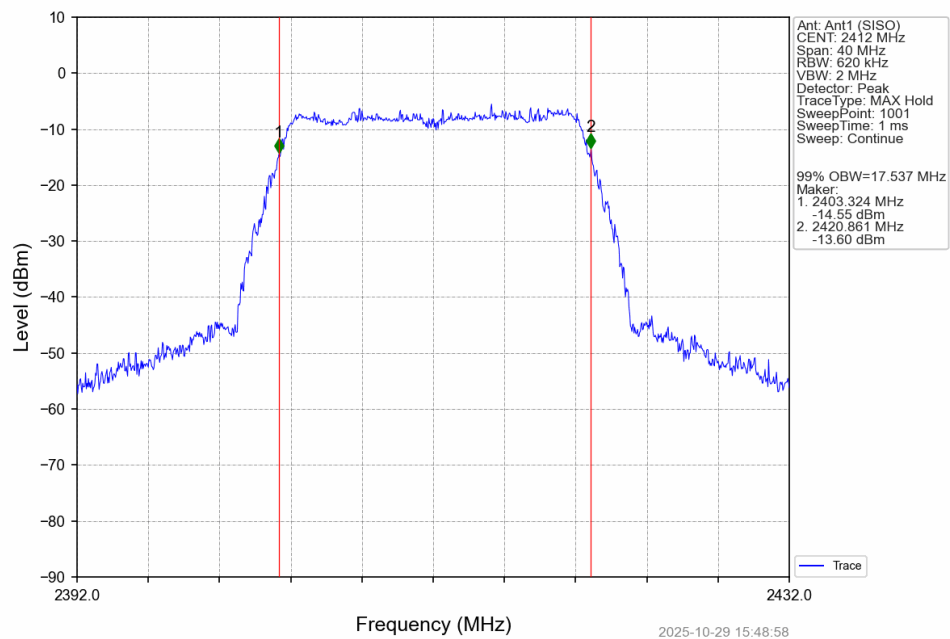
2.2.1 OBW



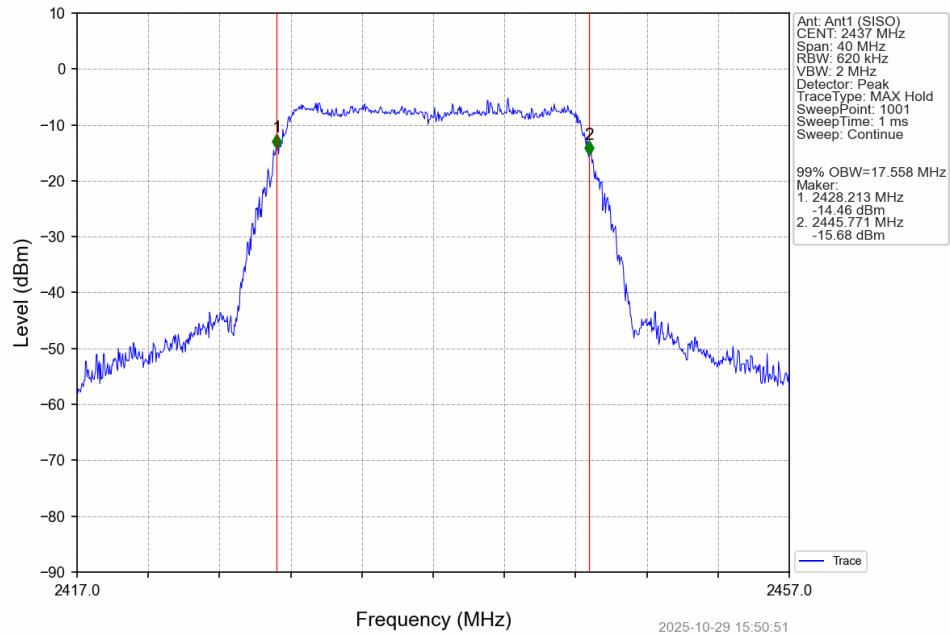
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



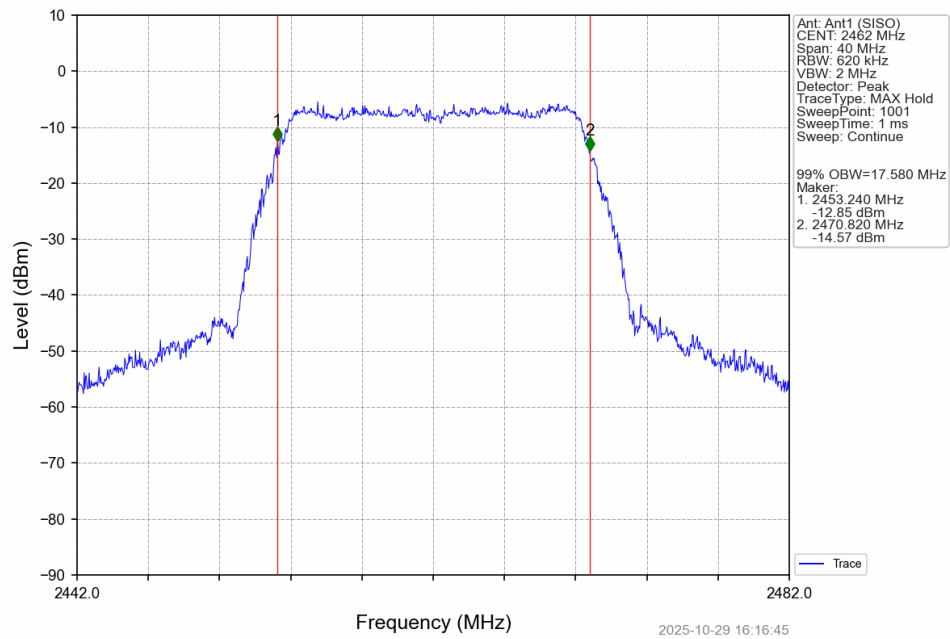
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



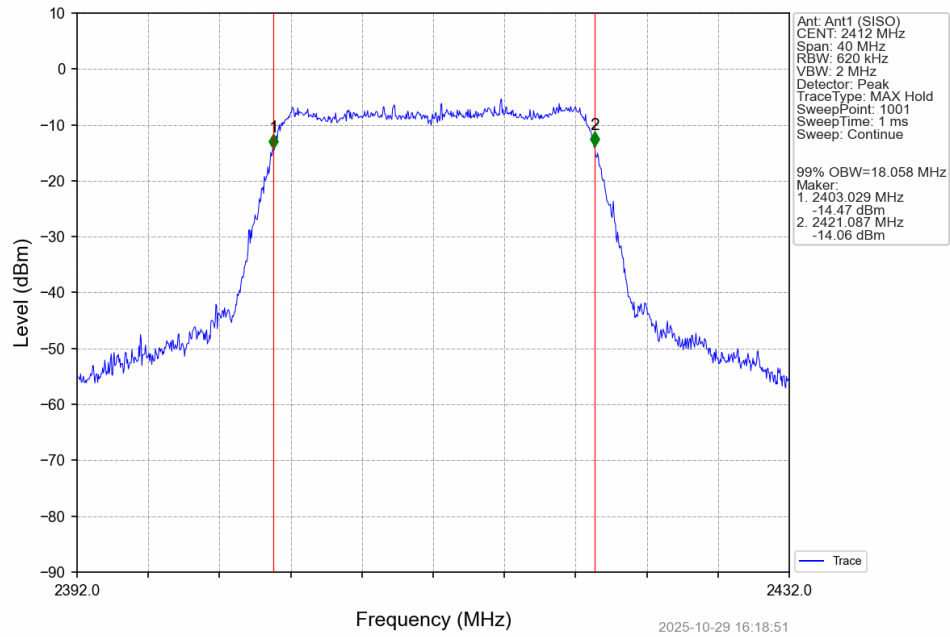
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



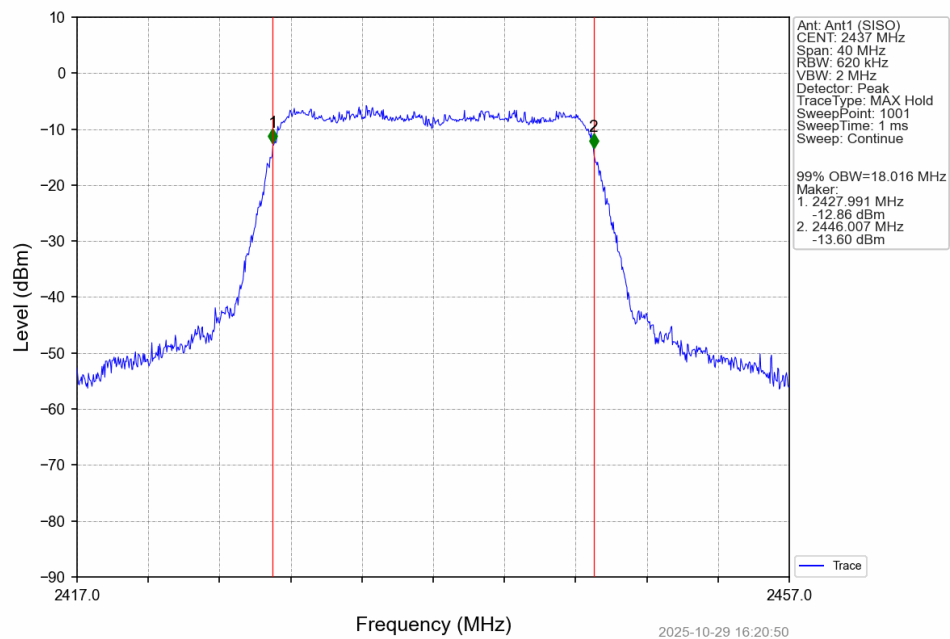
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



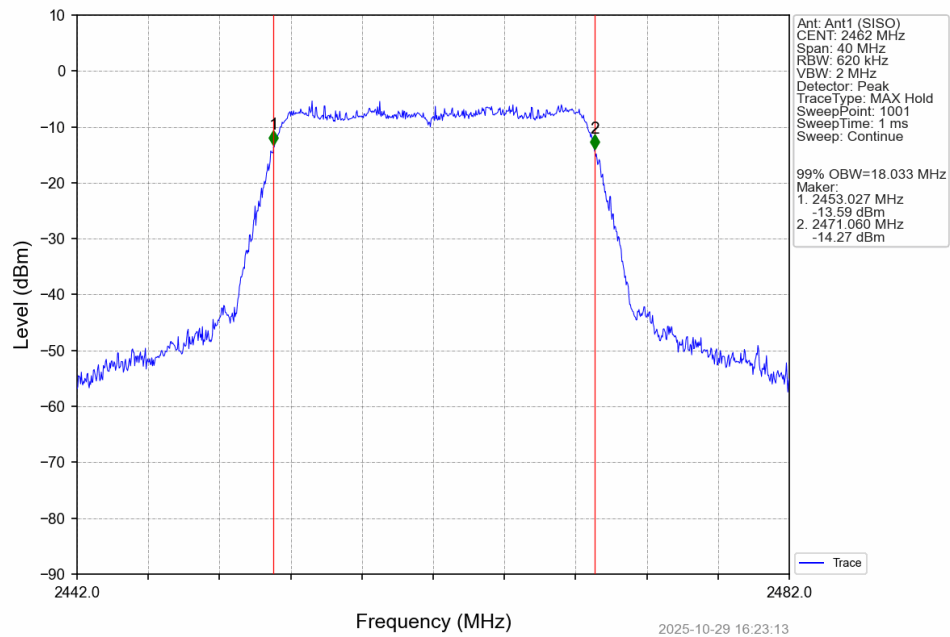
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



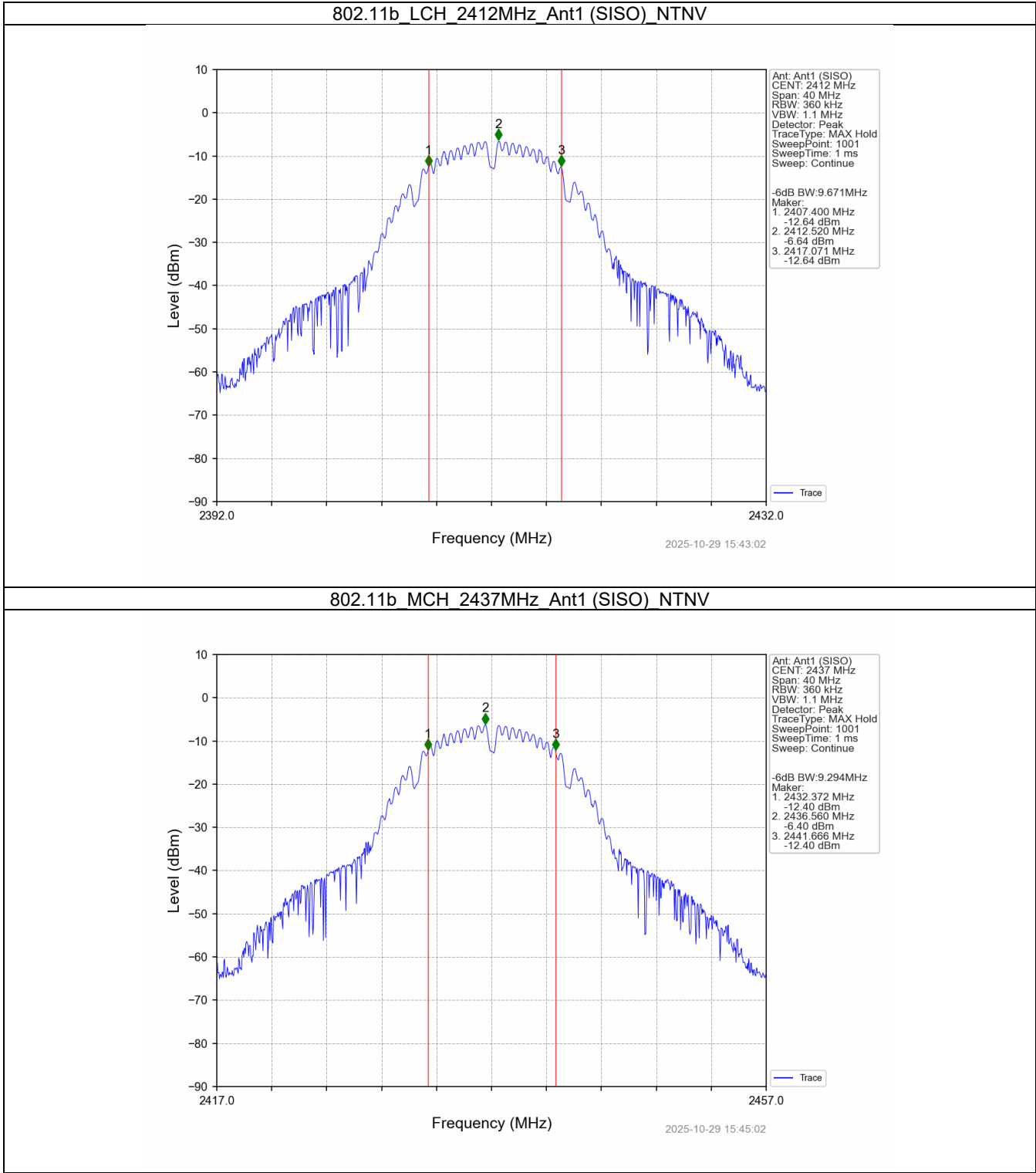
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



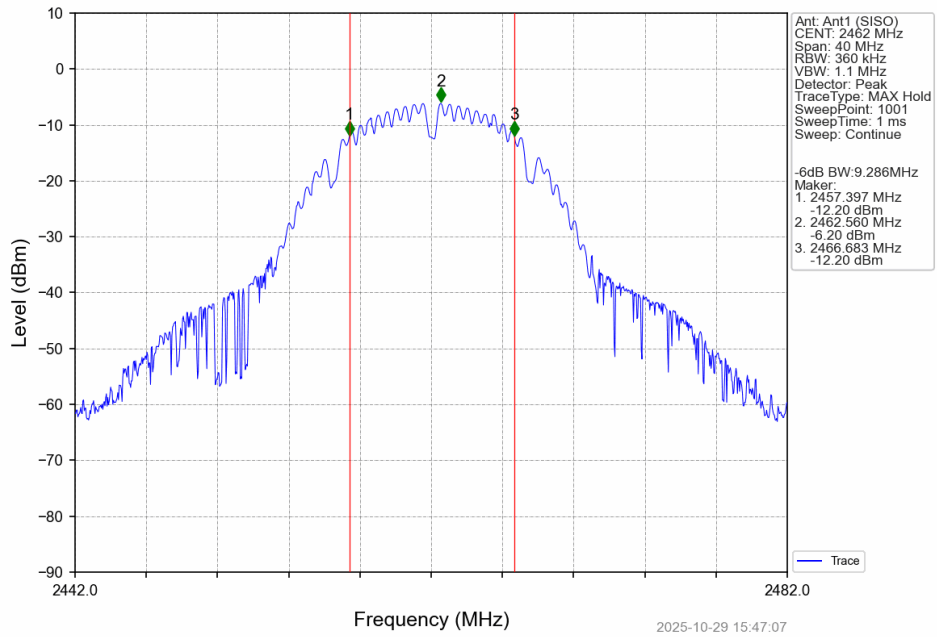
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



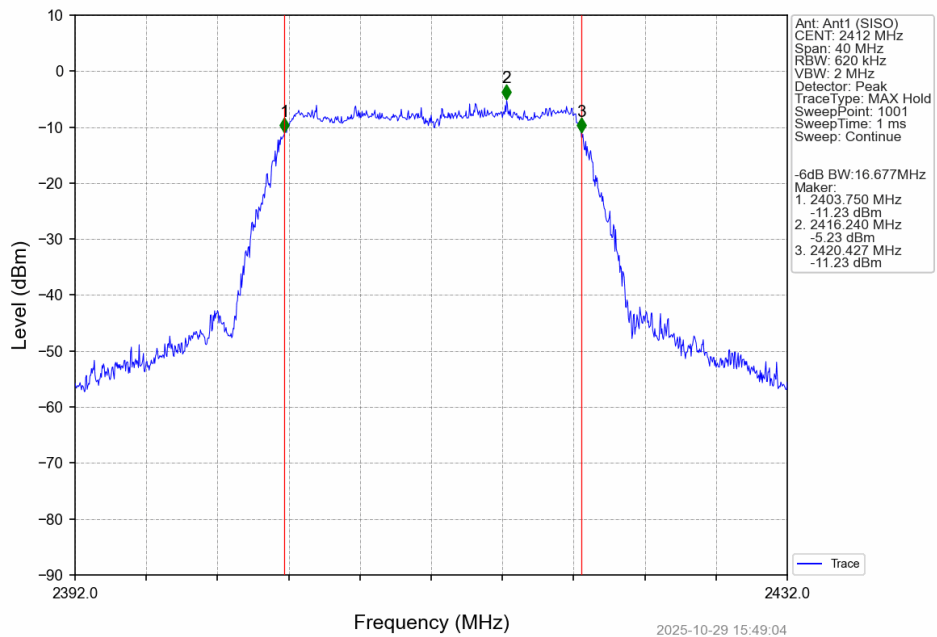
2.2.2 6dB BW



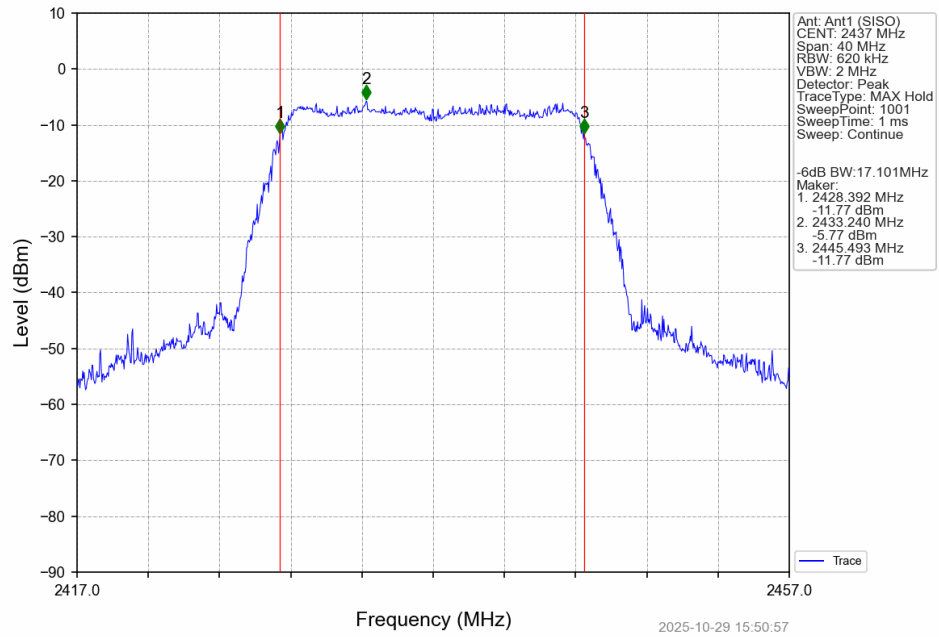
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



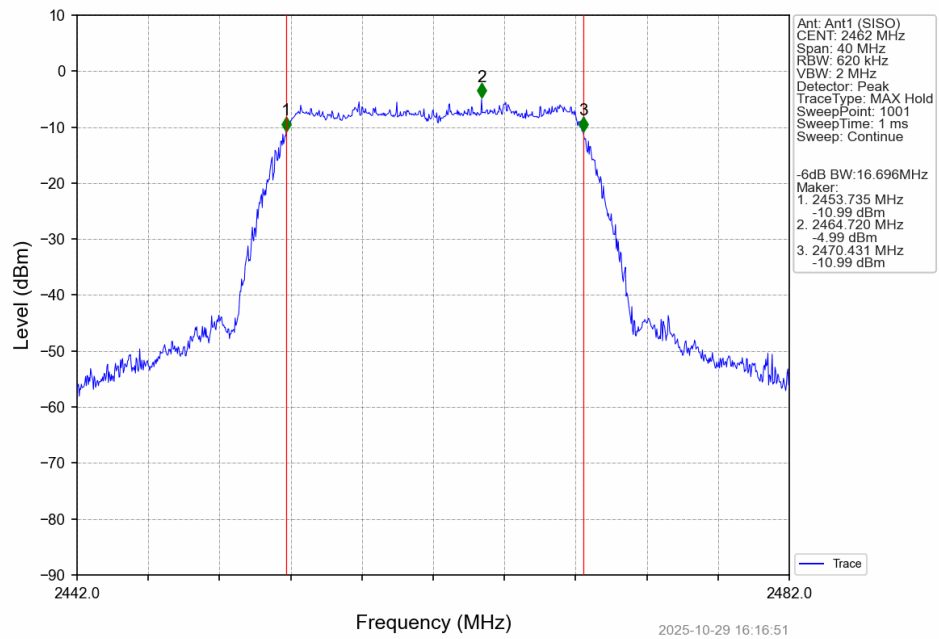
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



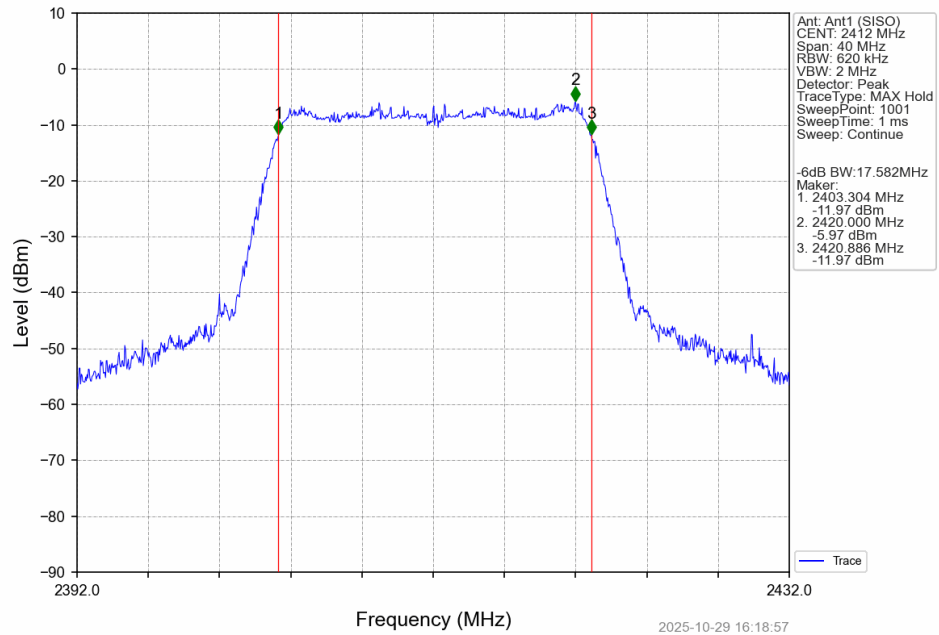
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



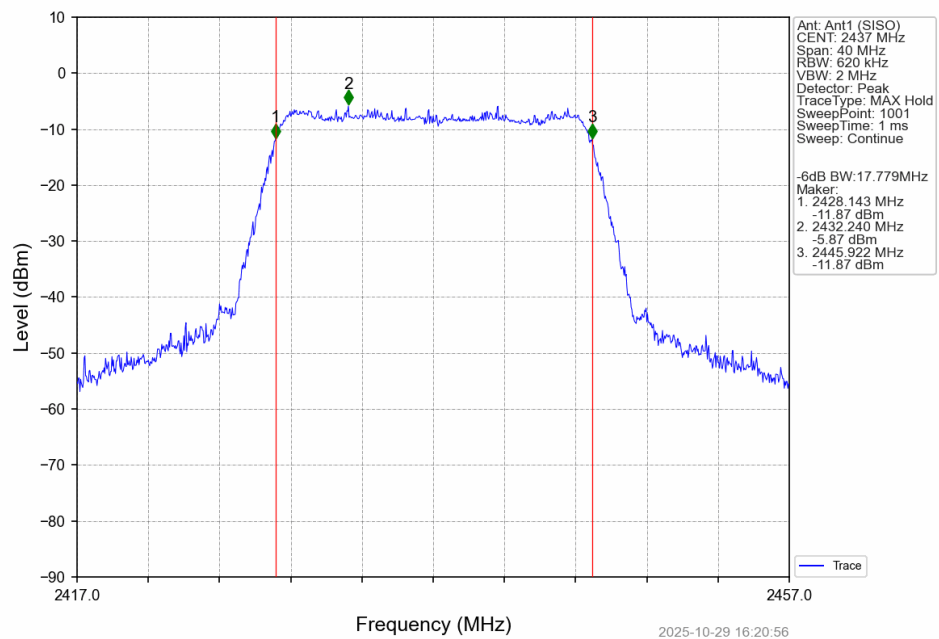
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



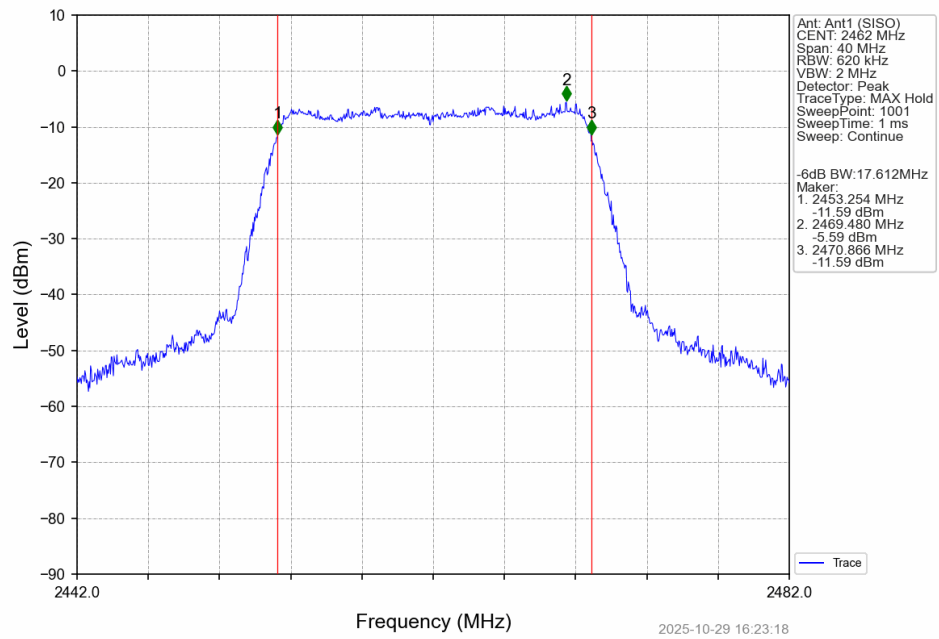
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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	4.32	<=30	Pass
		2437	4.48	<=30	Pass
		2462	4.65	<=30	Pass
802.11g	SISO	2412	6.96	<=30	Pass
		2437	7.34	<=30	Pass
		2462	7.46	<=30	Pass
802.11n (HT20)	SISO	2412	7.02	<=30	Pass
		2437	7.35	<=30	Pass
		2462	7.49	<=30	Pass

4. Maximum Power Spectral Density

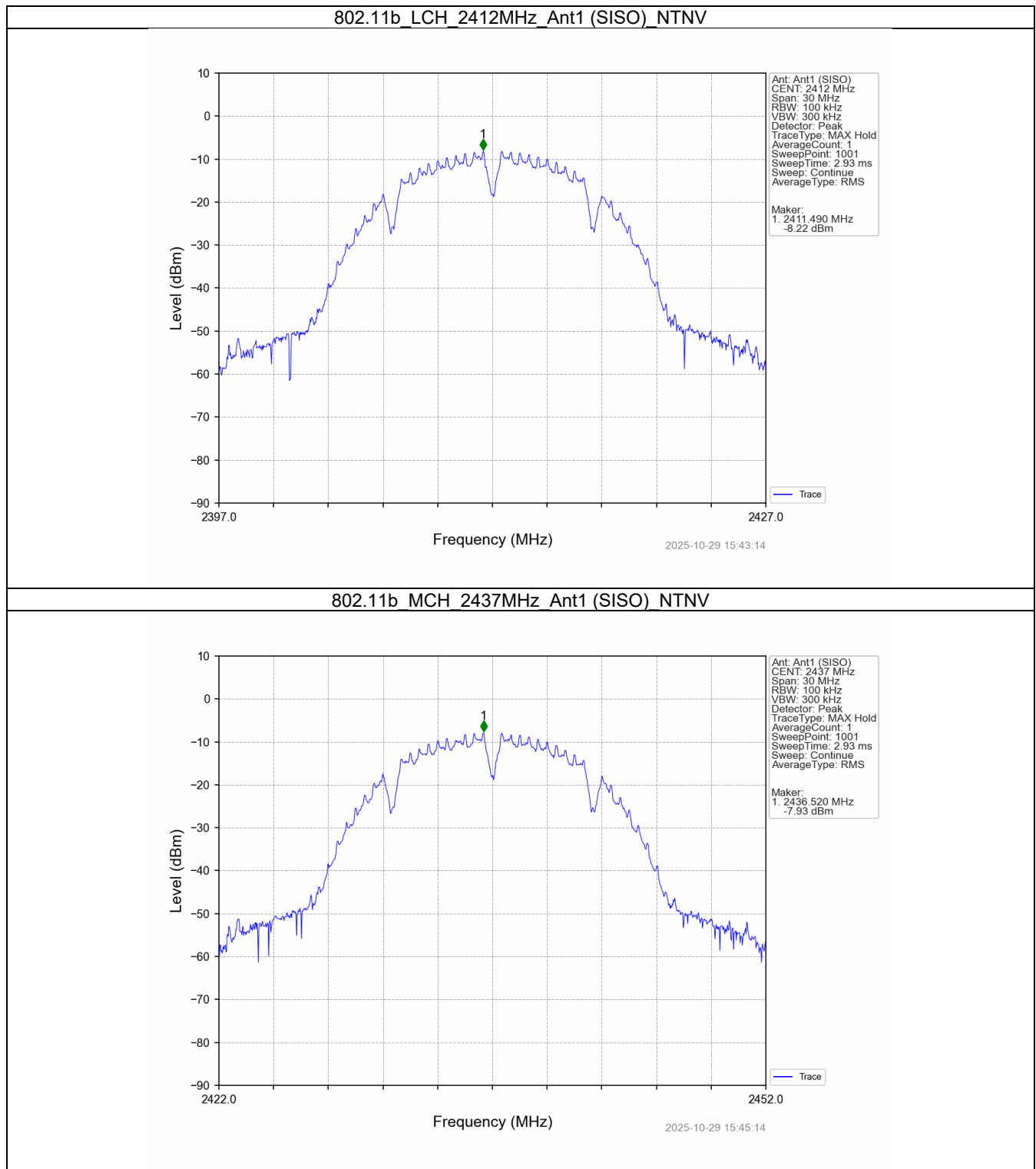
4.1 Test Result

4.1.1 PSD

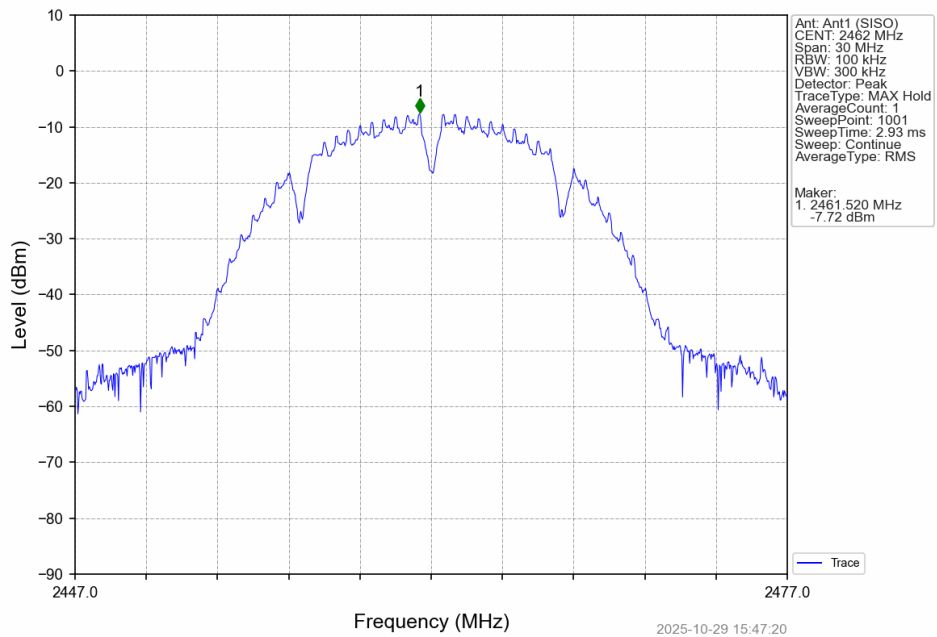
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.22	<=8	Pass
		2437	-7.93	<=8	Pass
		2462	-7.72	<=8	Pass
802.11g	SISO	2412	-10.96	<=8	Pass
		2437	-10.72	<=8	Pass
		2462	-10.73	<=8	Pass
802.11n (HT20)	SISO	2412	-11.00	<=8	Pass
		2437	-11.30	<=8	Pass
		2462	-10.78	<=8	Pass

4.2 Test Graph

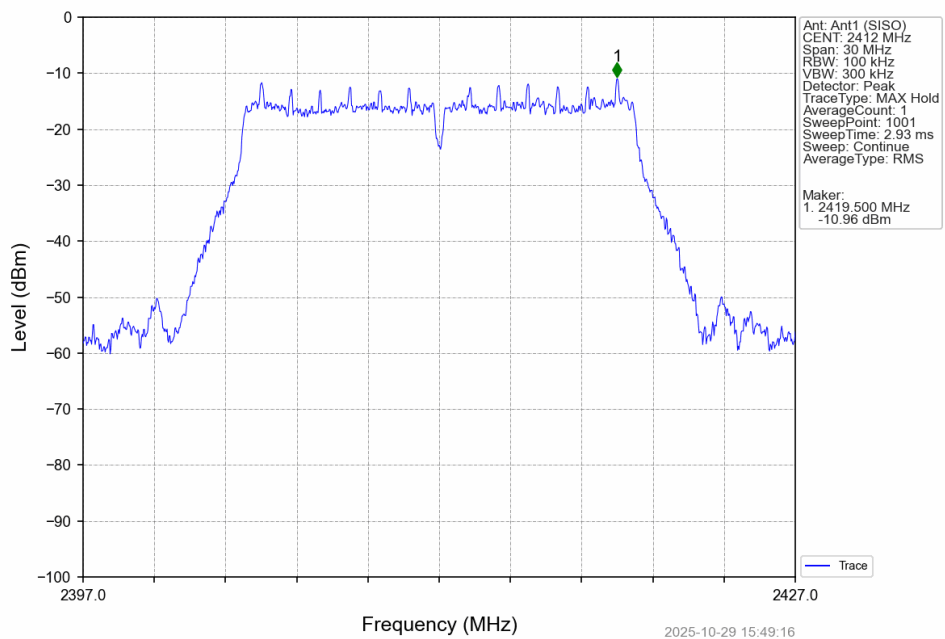
4.2.1 PSD



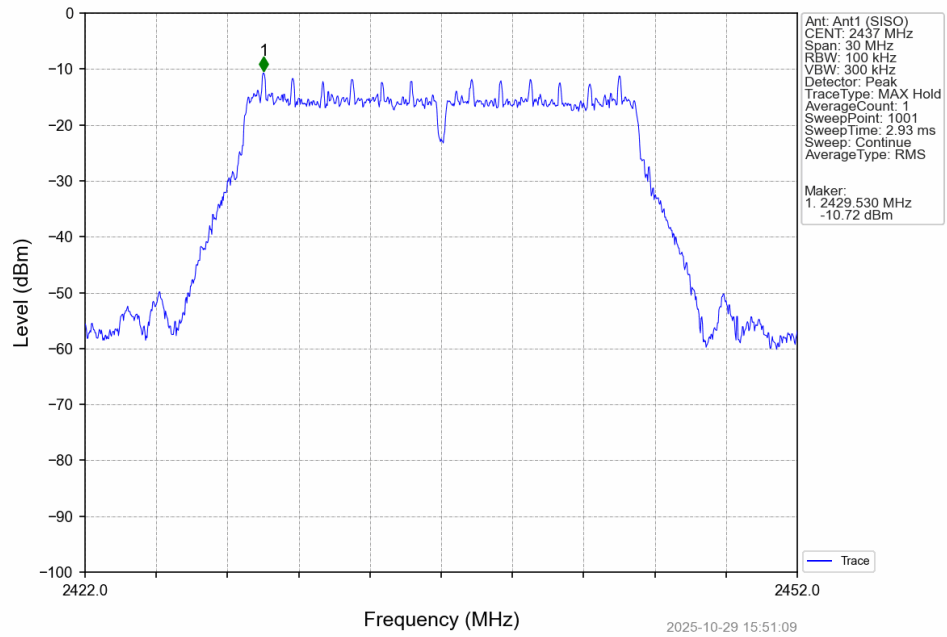
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



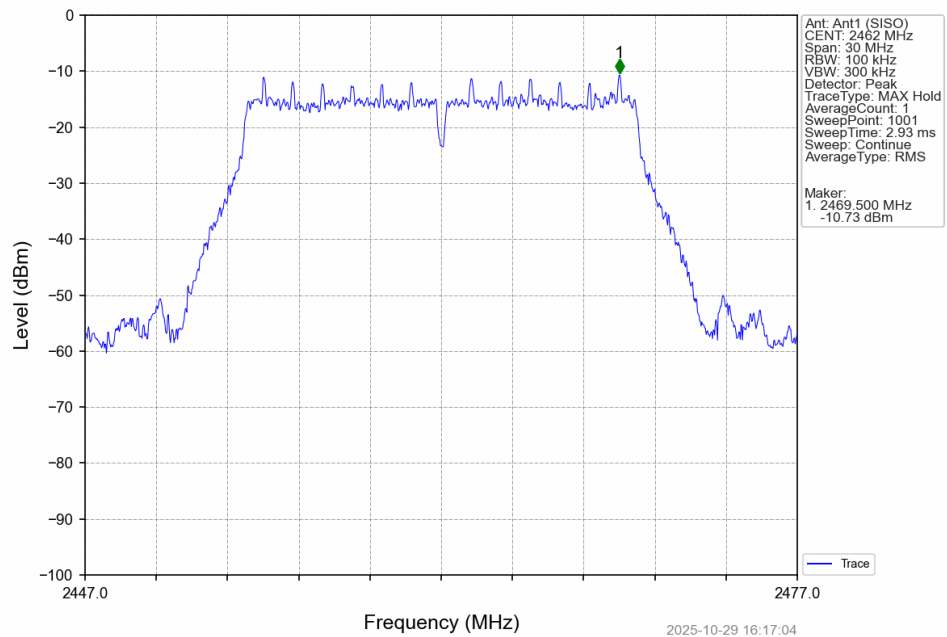
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



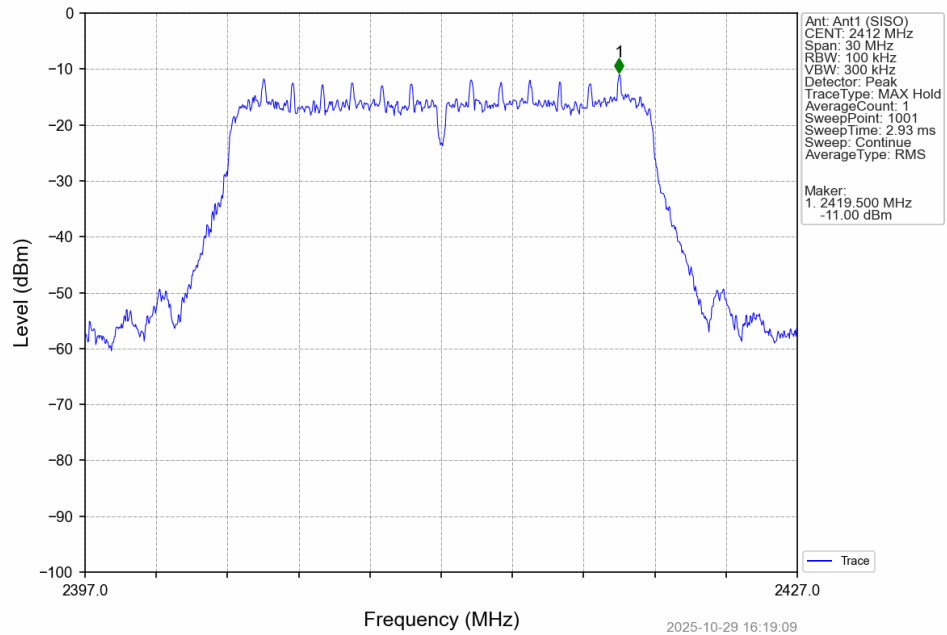
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



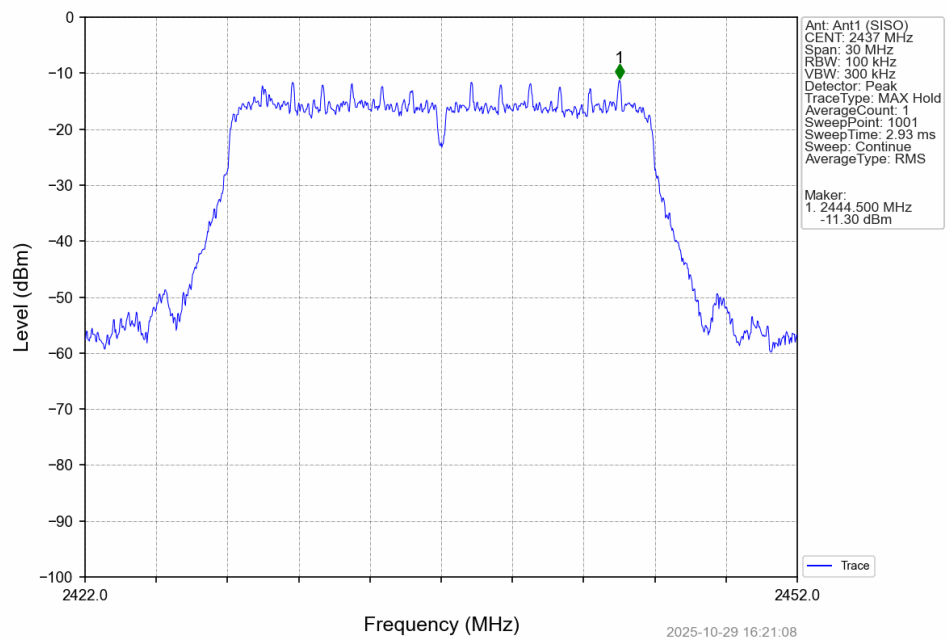
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



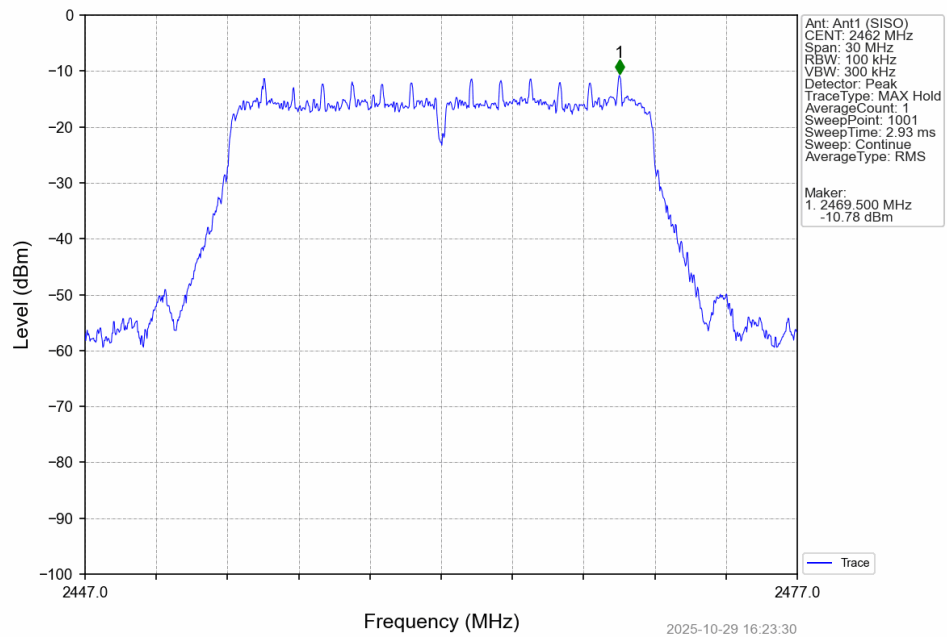
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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

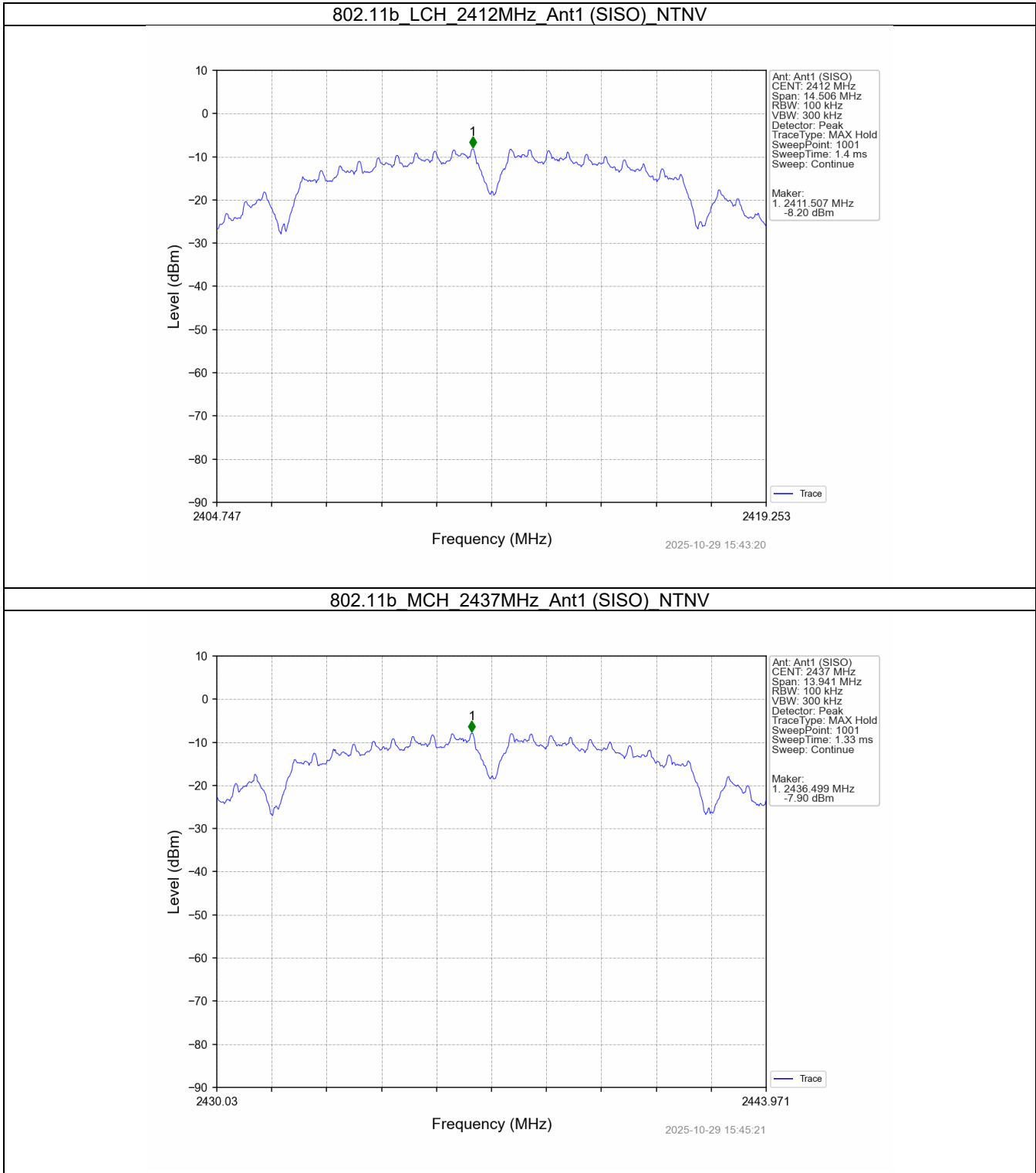
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-8.20
		2437	1	-7.90
		2462	1	-7.72
802.11g	SISO	2412	1	-10.97
		2437	1	-10.85
		2462	1	-10.75
802.11n (HT20)	SISO	2412	1	-10.91
		2437	1	-10.76
		2462	1	-10.75
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

5.1.2 CSE

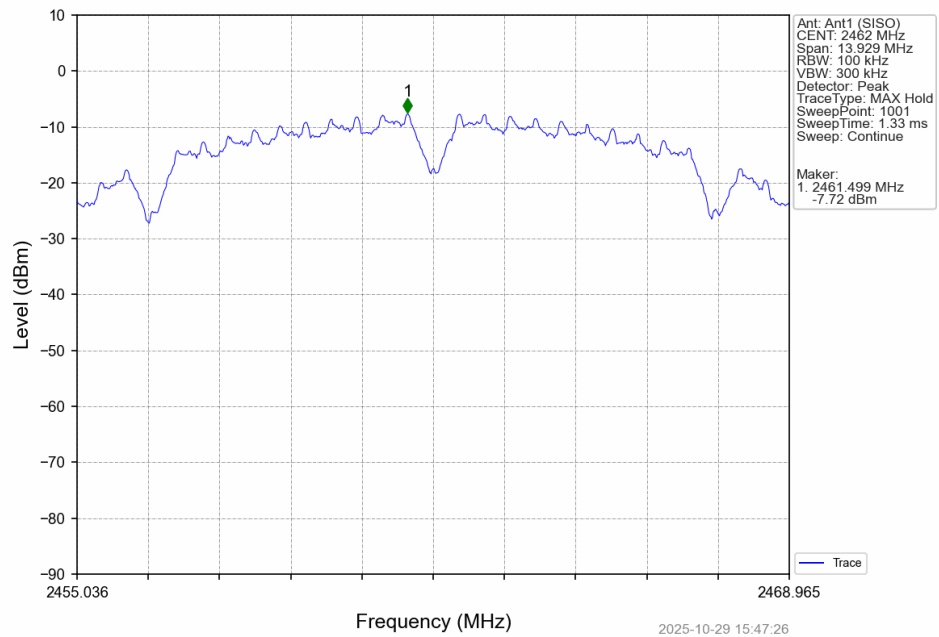
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-8.20	-28.20	Pass
		2437	1	-7.90	-27.90	Pass
		2462	1	-7.72	-27.72	Pass
802.11g	SISO	2412	1	-10.97	-30.97	Pass
		2437	1	-10.85	-30.85	Pass
		2462	1	-10.75	-30.75	Pass
802.11n (HT20)	SISO	2412	1	-10.91	-30.91	Pass
		2437	1	-10.76	-30.76	Pass
		2462	1	-10.75	-30.75	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

5.2 Test Graph

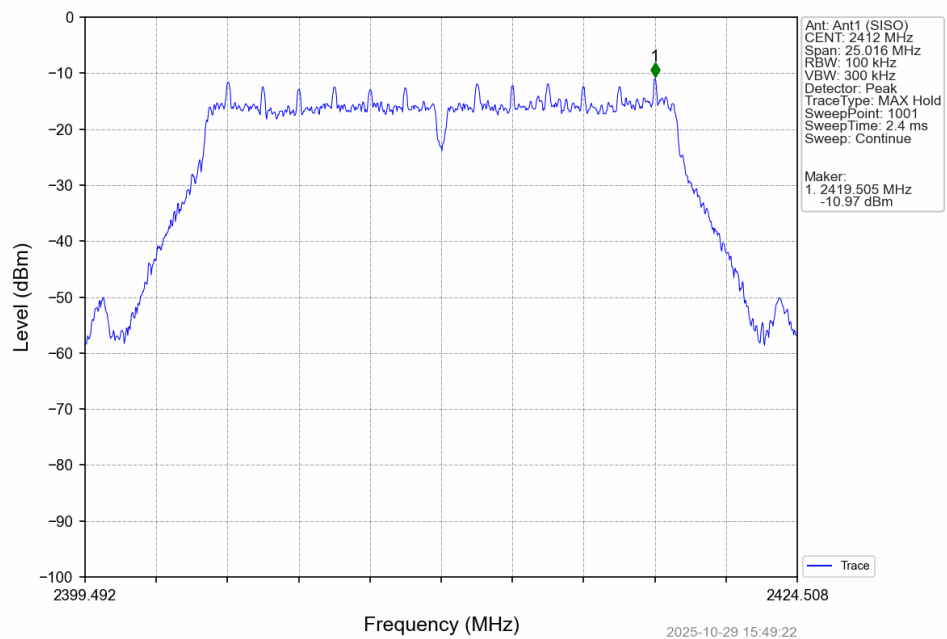
5.2.1 Ref



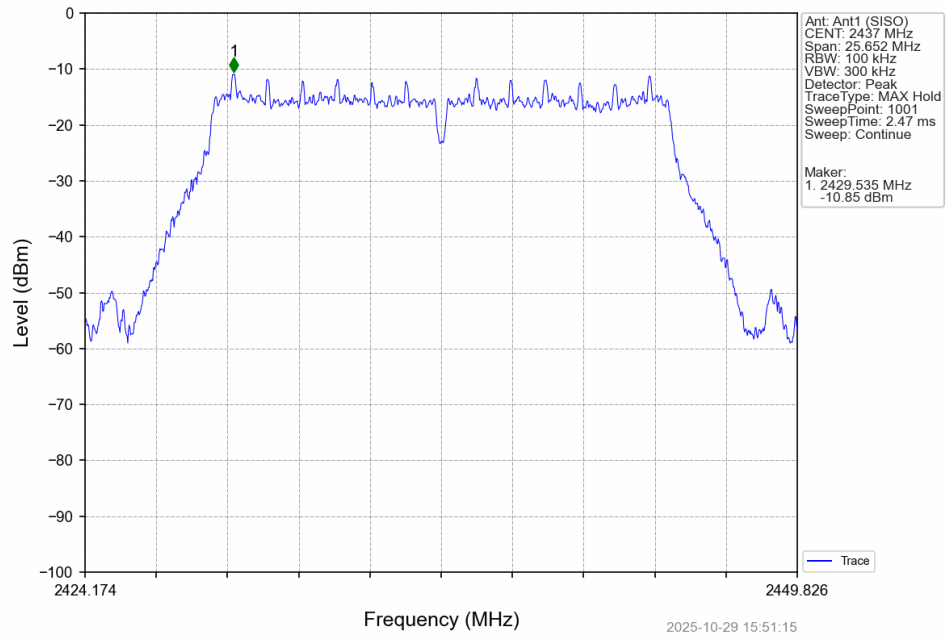
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



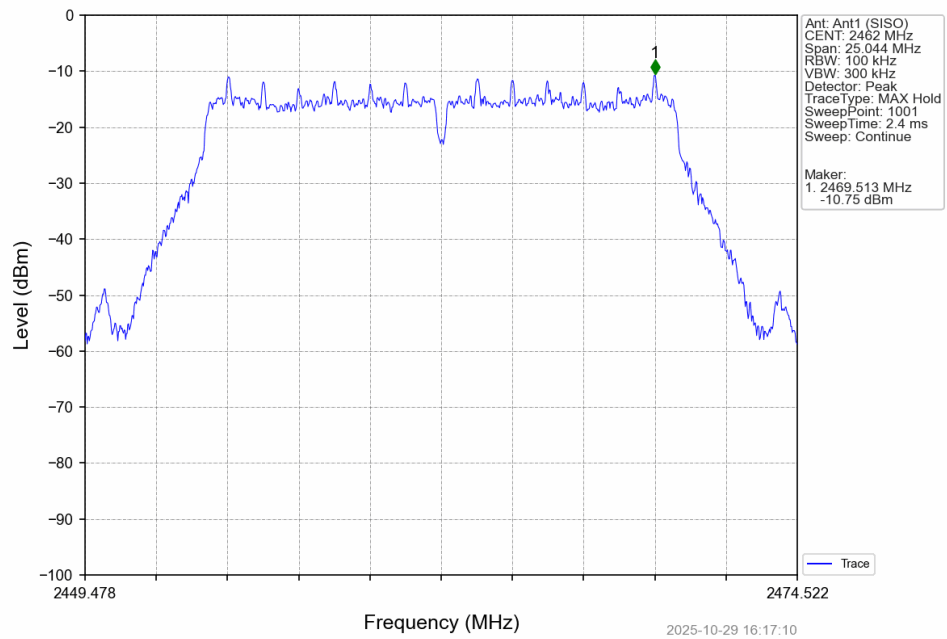
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



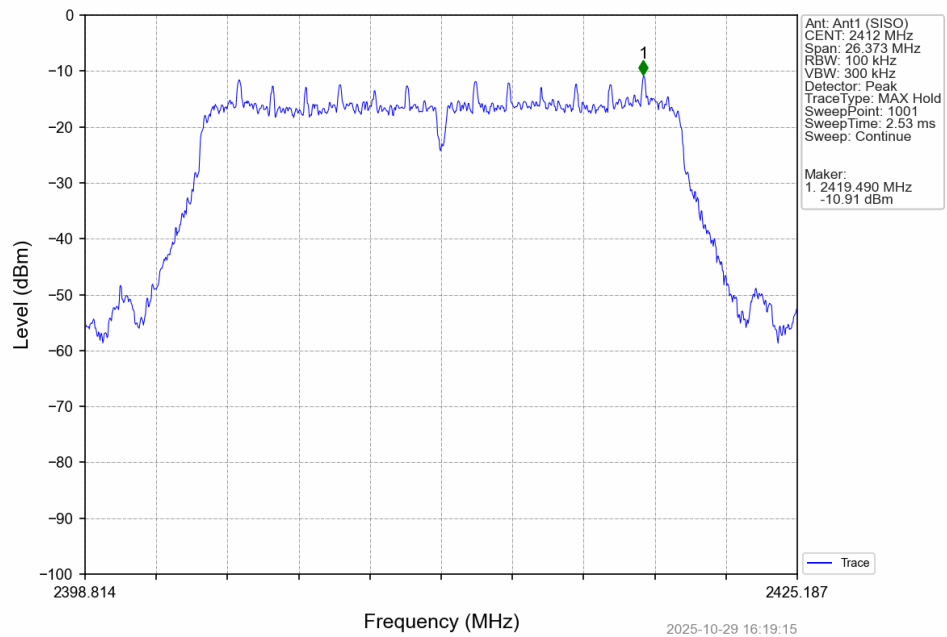
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



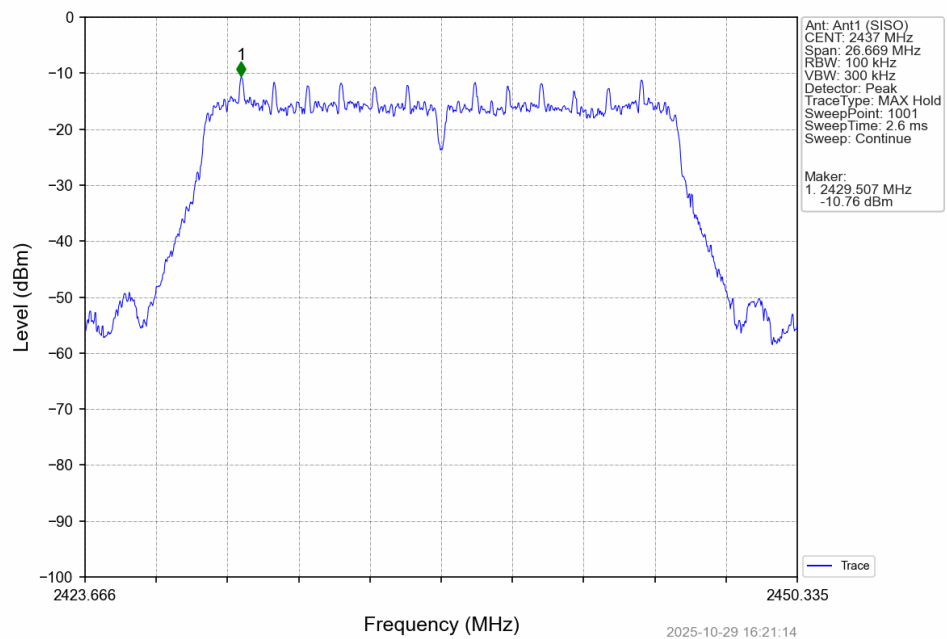
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



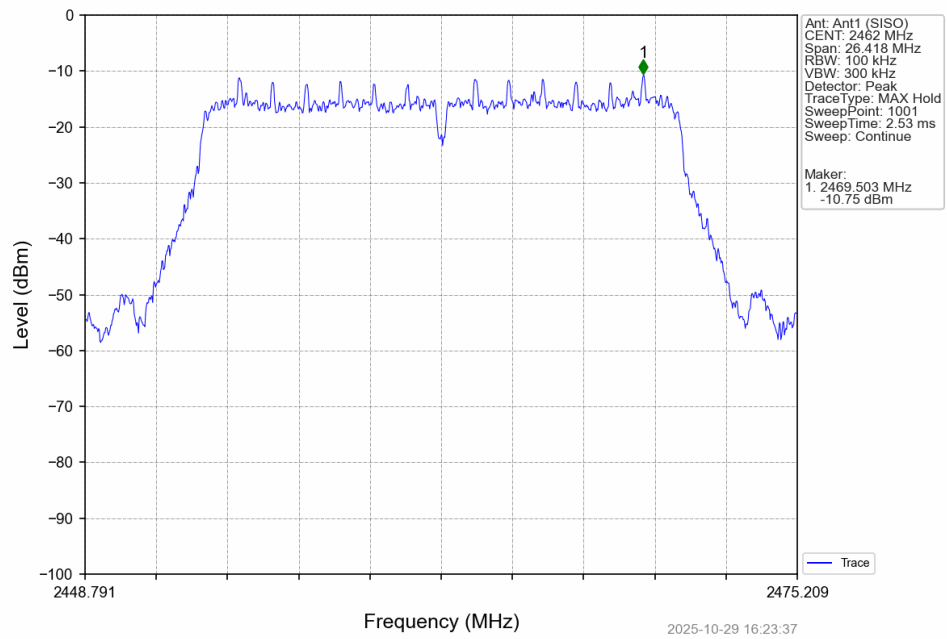
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



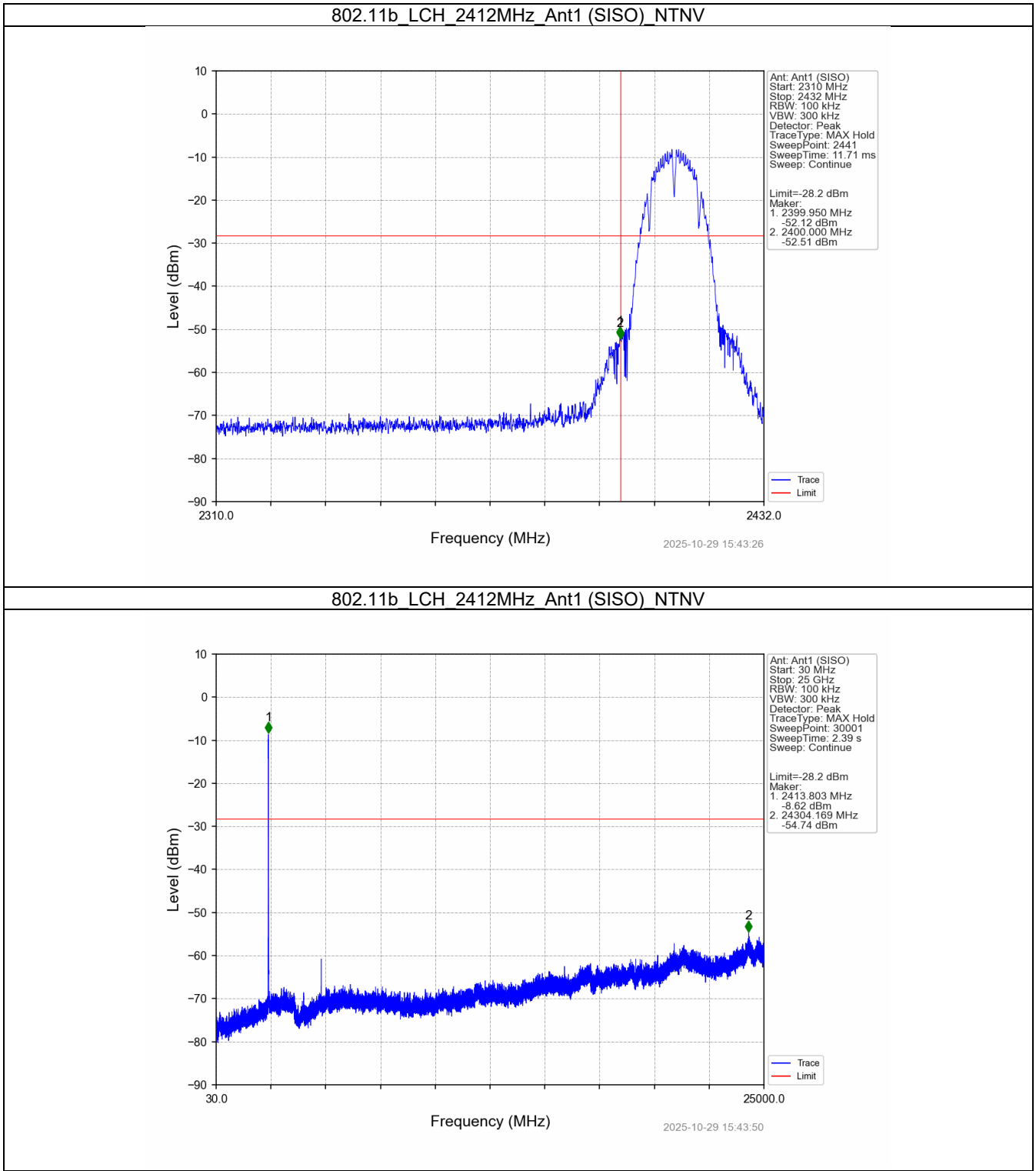
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



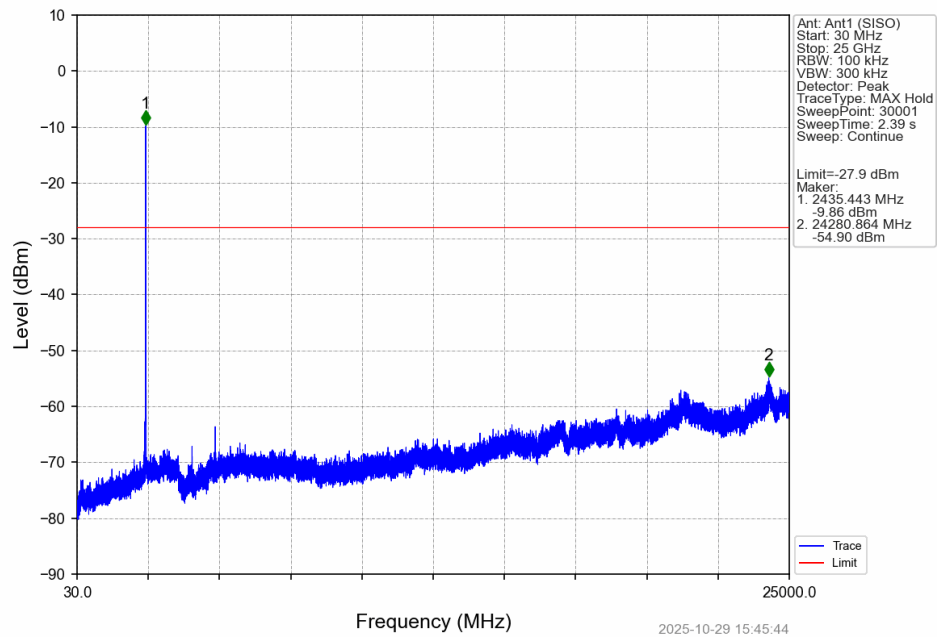
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



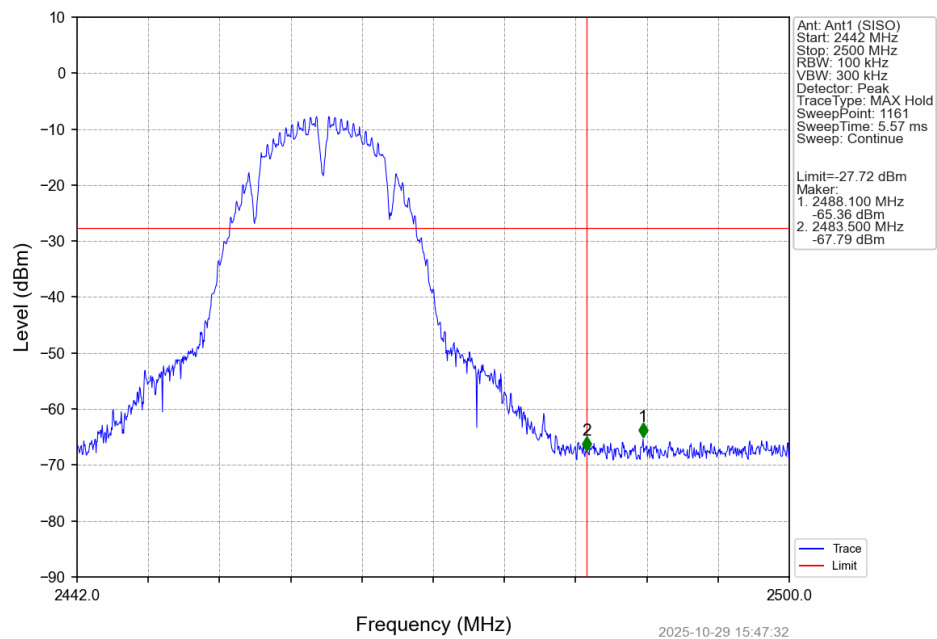
5.2.2 CSE



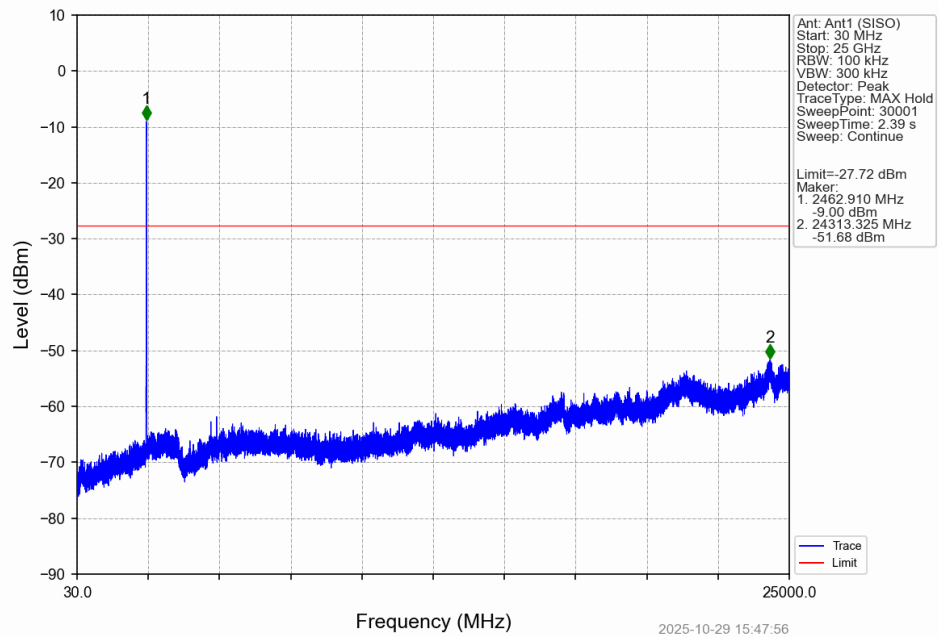
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



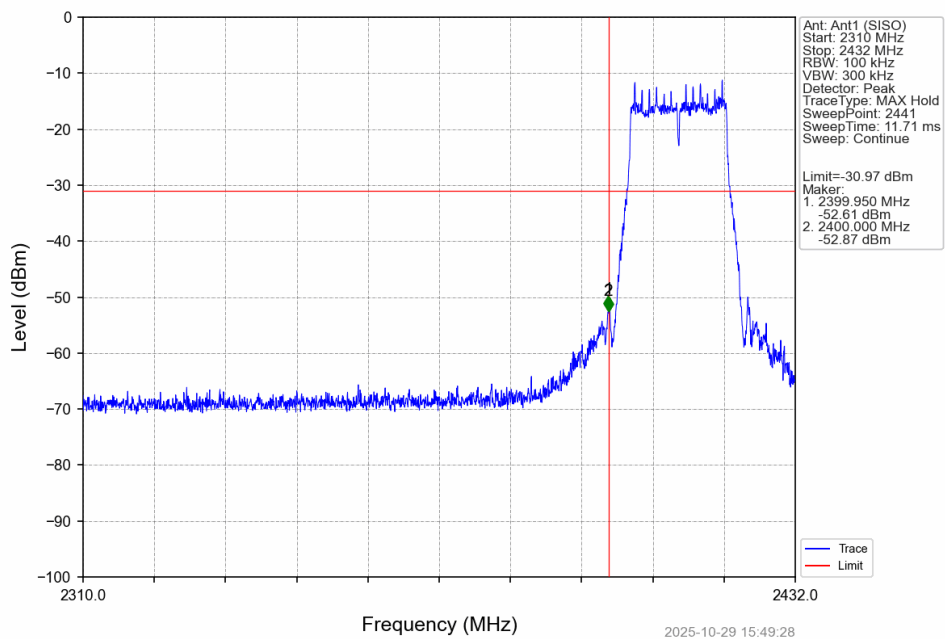
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



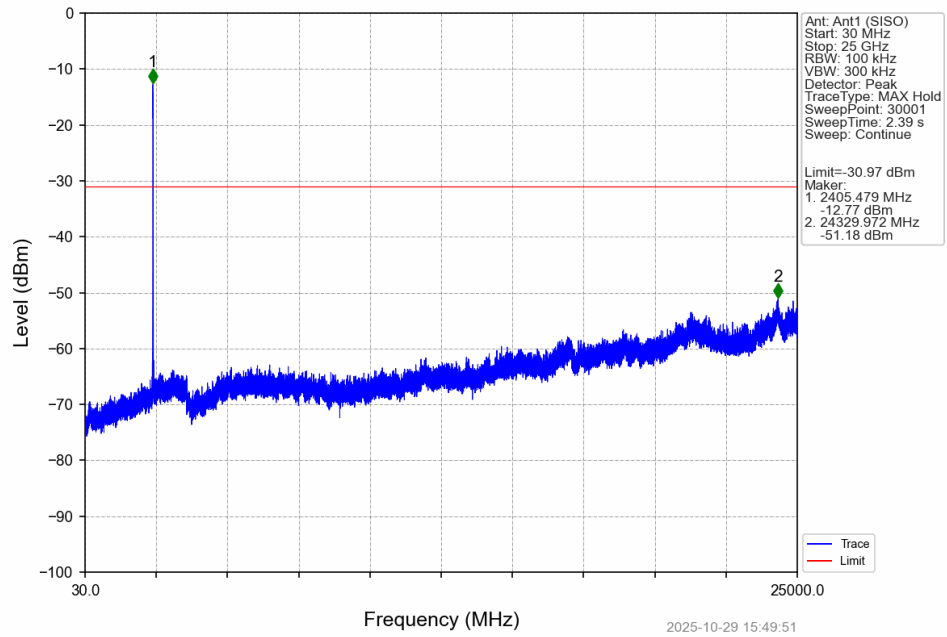
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



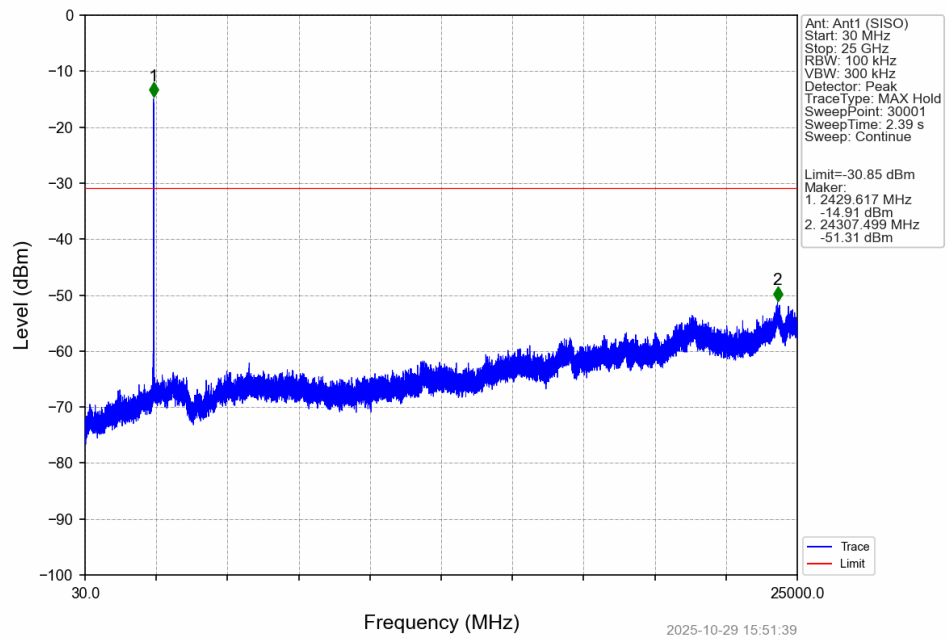
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



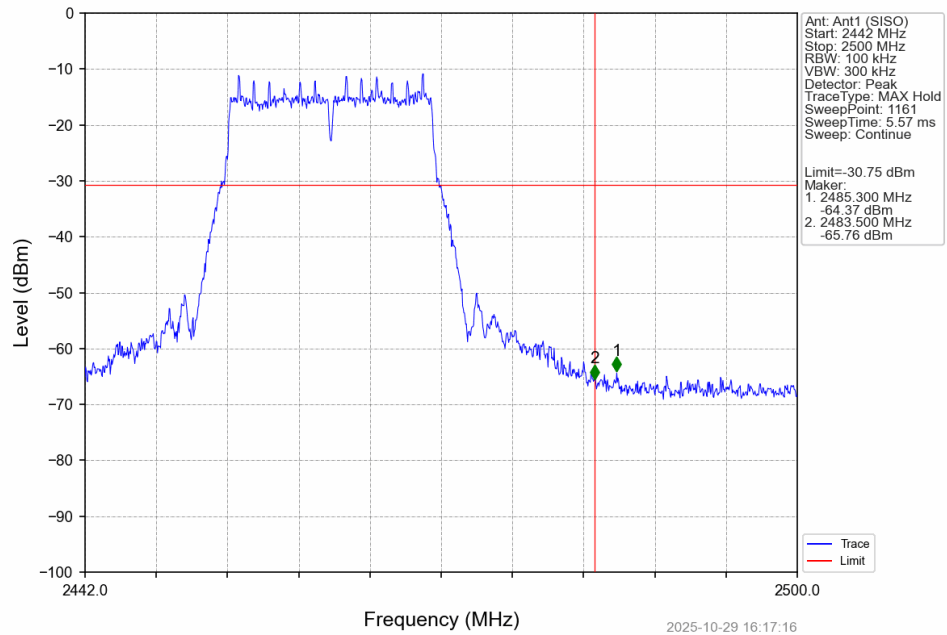
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



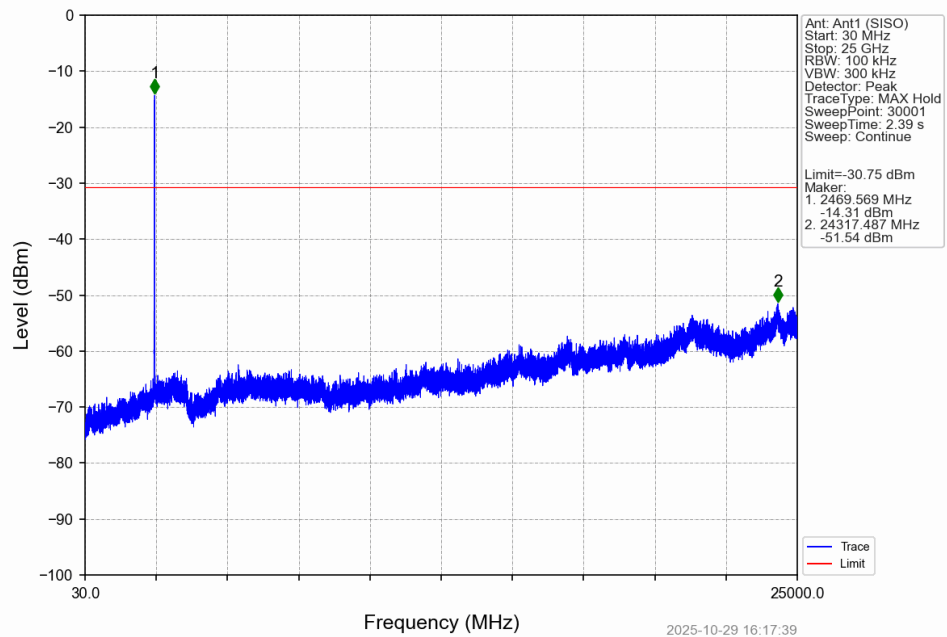
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



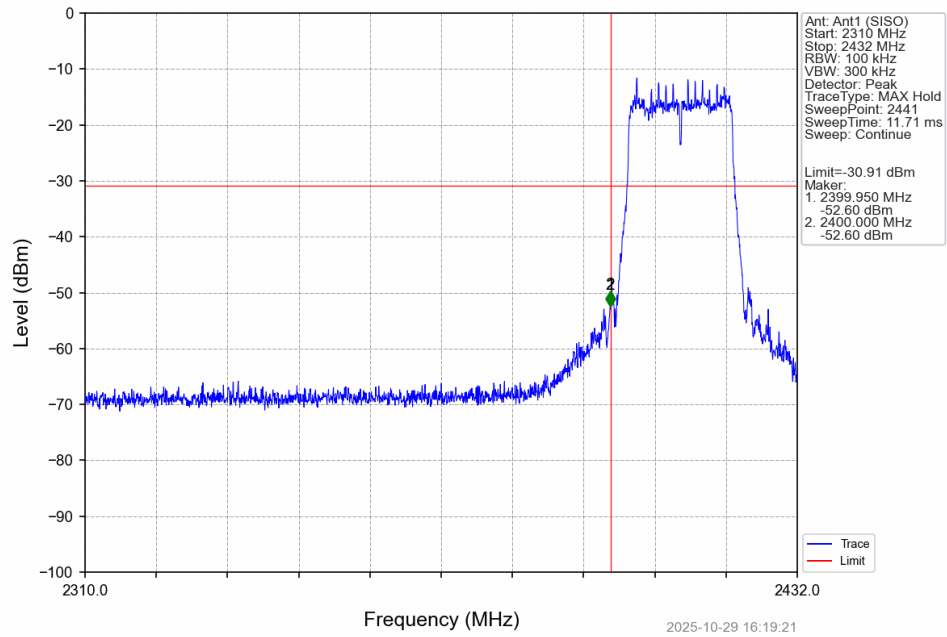
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



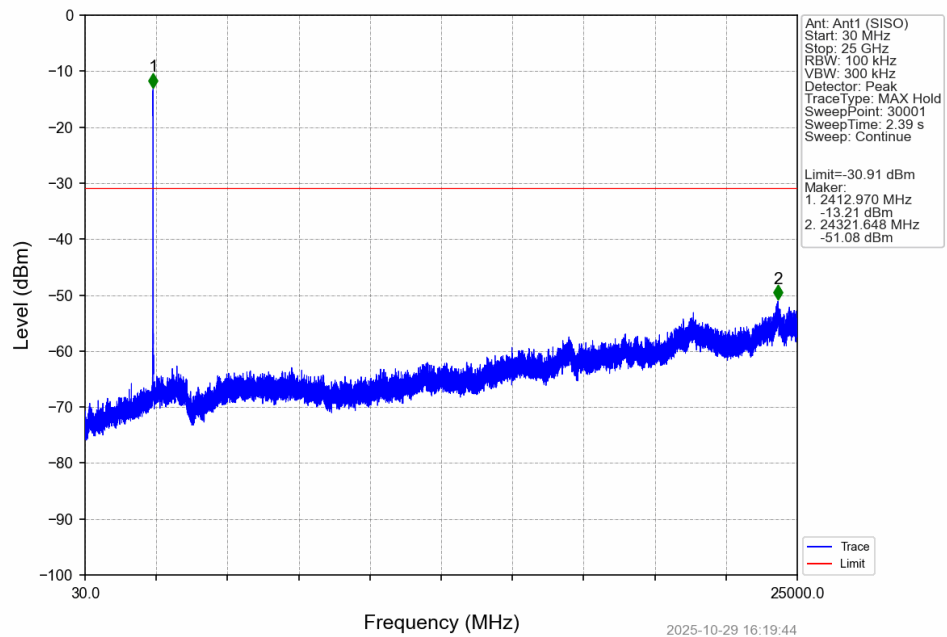
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



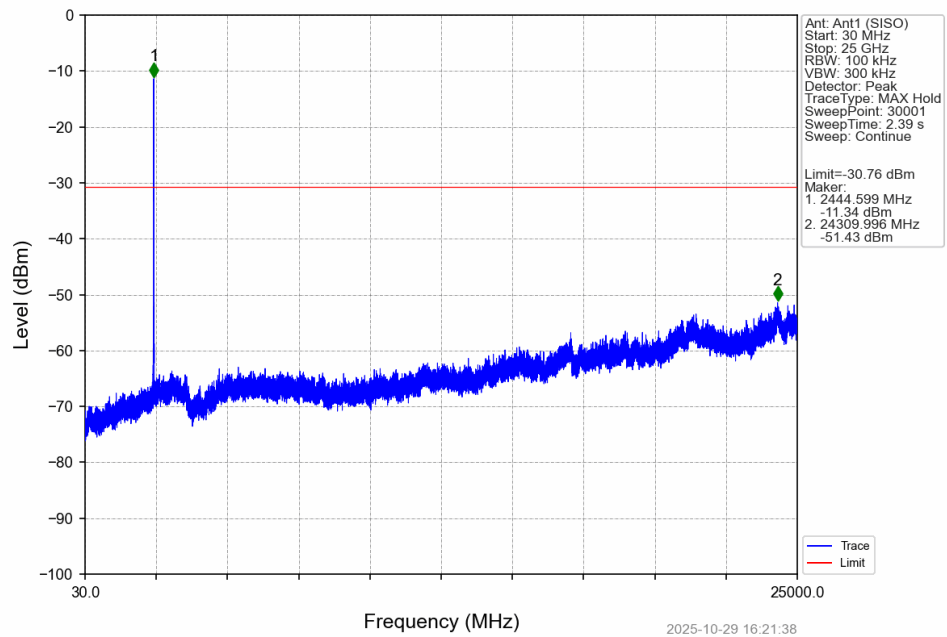
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



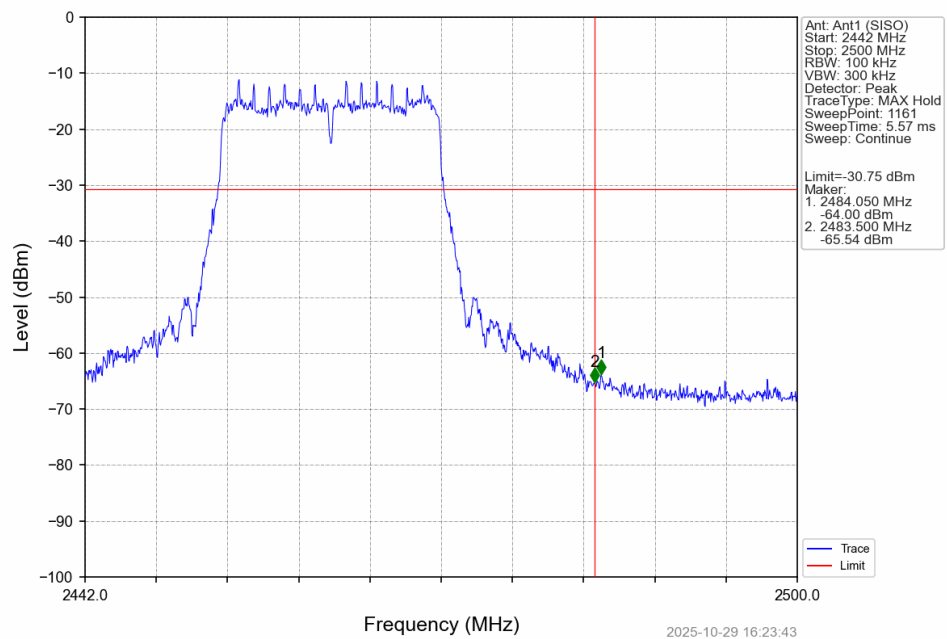
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

