

Appendix for 15.247

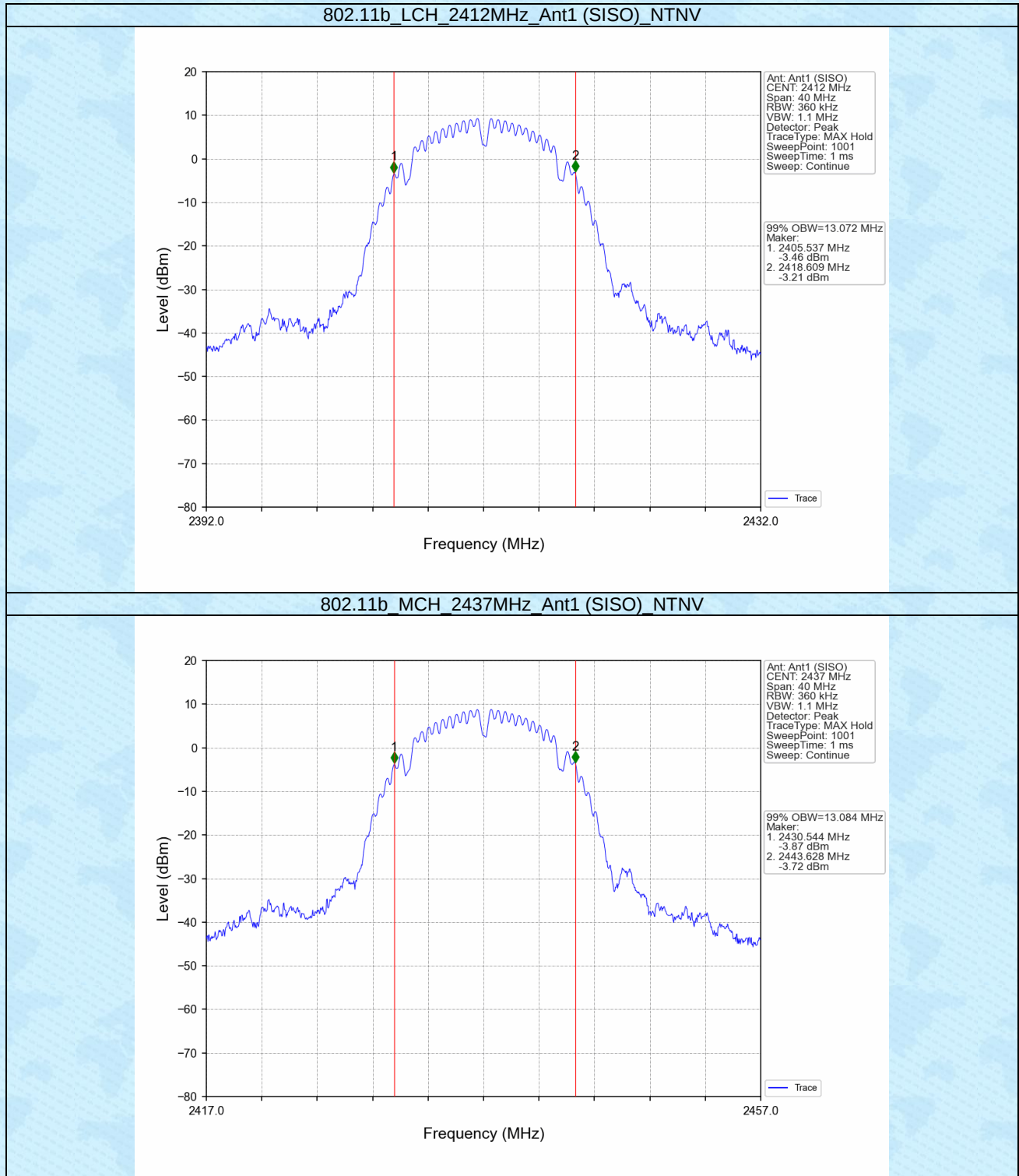
1. Bandwidth

1.1 OBW

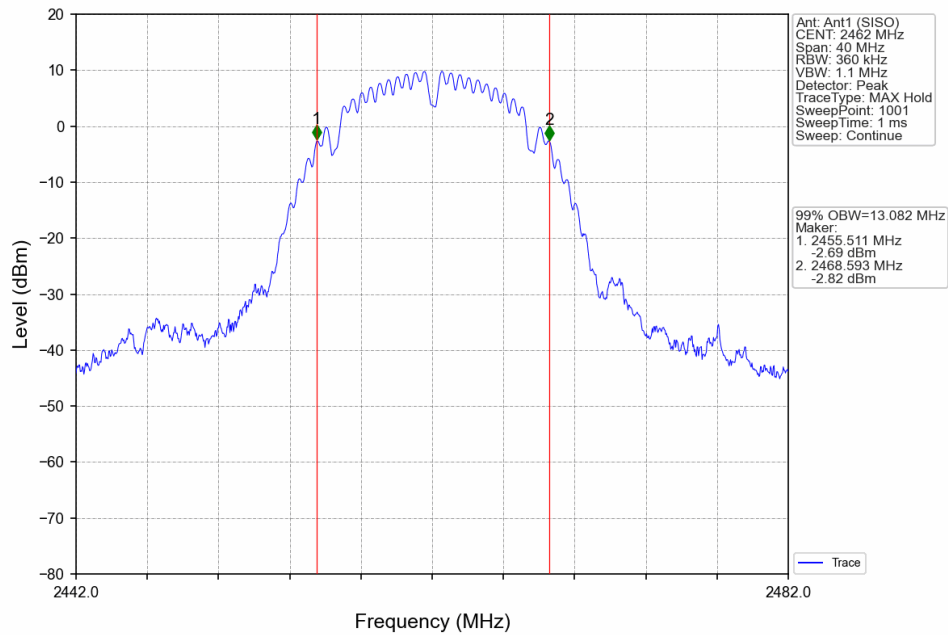
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.072	Pass
		2437	1	13.084	Pass
		2462	1	13.082	Pass
802.11g	SISO	2412	1	18.533	Pass
		2437	1	18.646	Pass
		2462	1	18.572	Pass
802.11n (HT20)	SISO	2412	1	19.189	Pass
		2437	1	19.344	Pass
		2462	1	19.324	Pass
802.11n (HT40)	SISO	2422	1	38.083	Pass
		2437	1	38.200	Pass
		2452	1	37.904	Pass

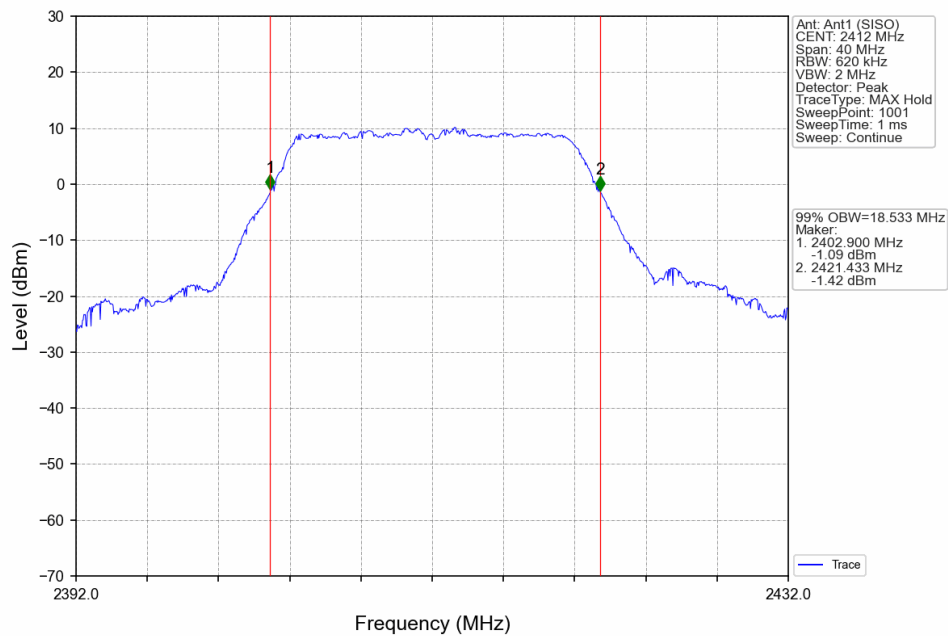
1.1.2 Test Graph



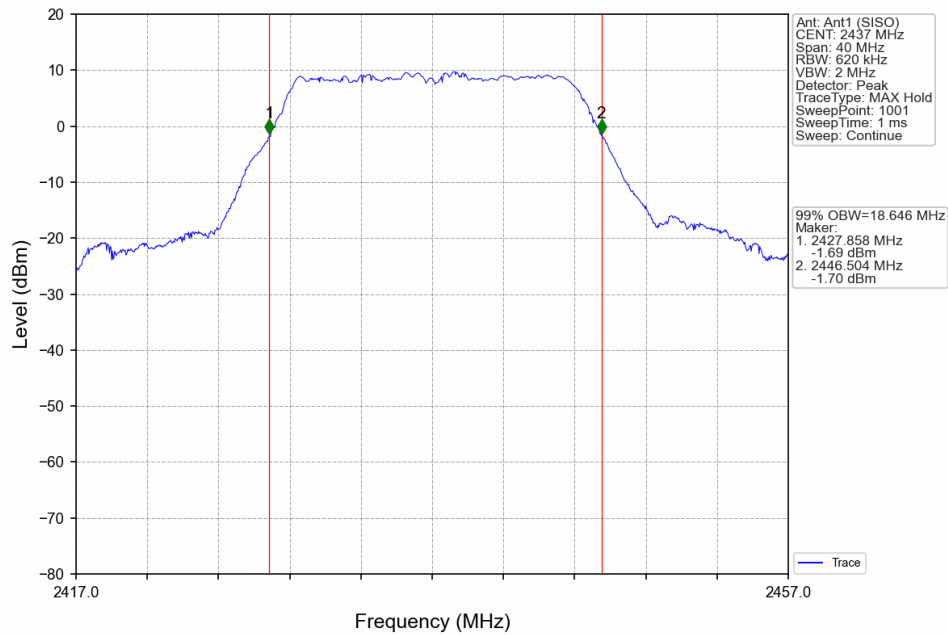
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



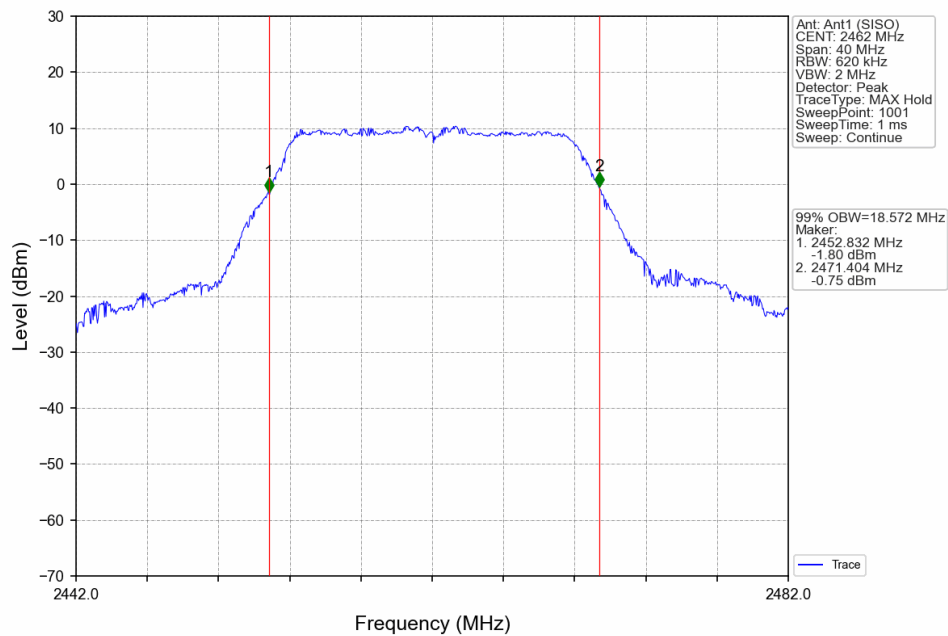
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



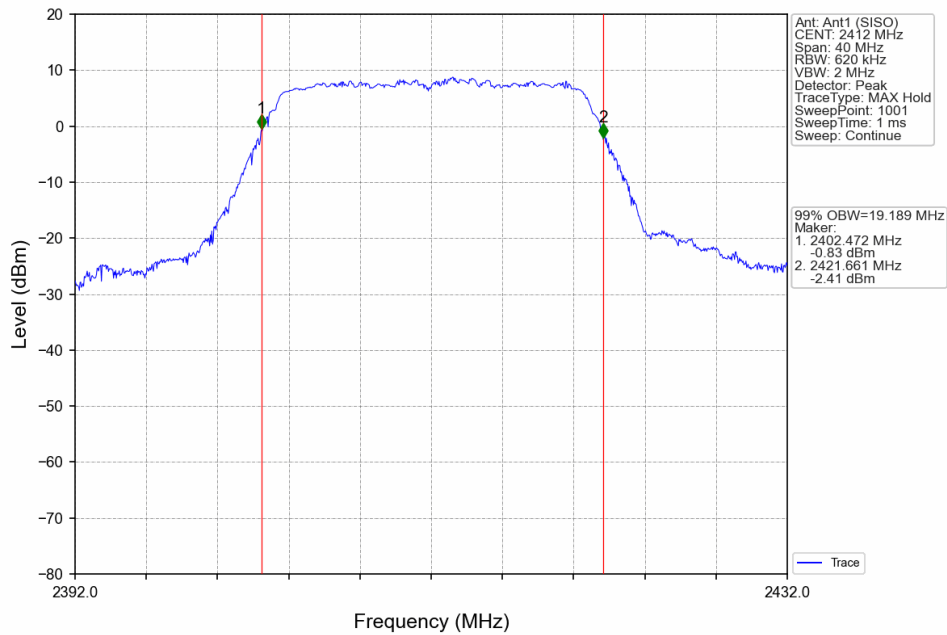
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



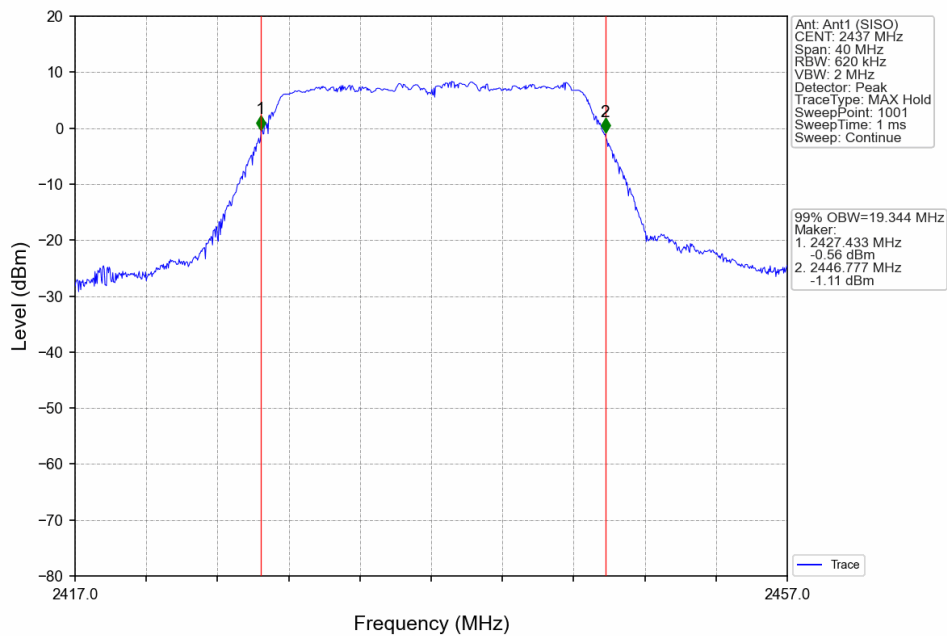
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



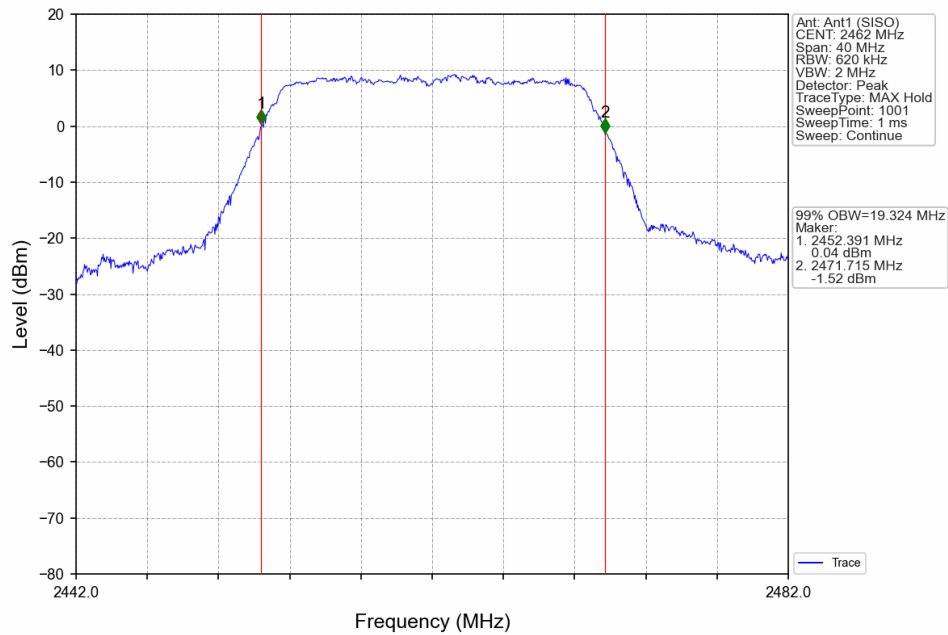
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



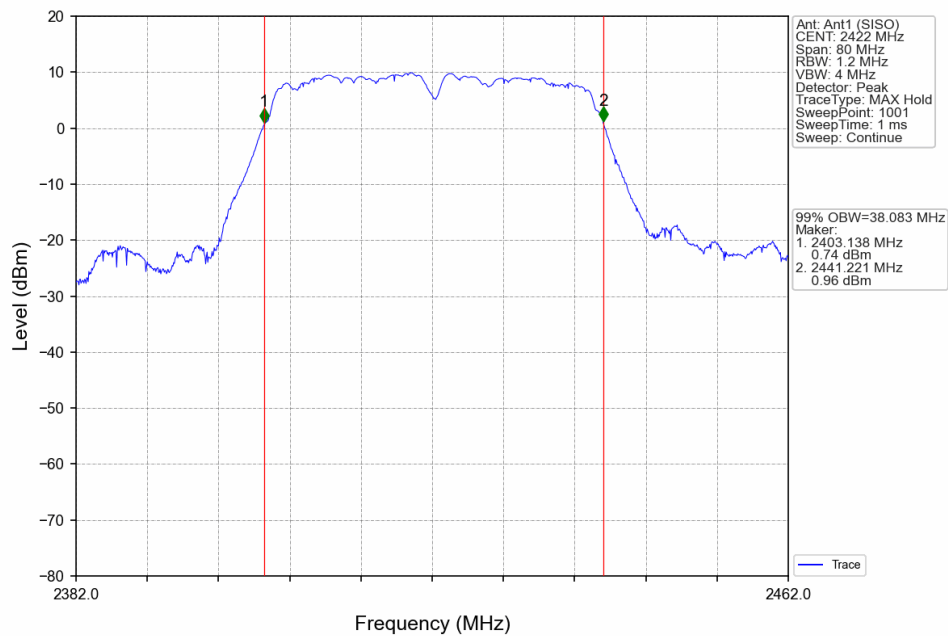
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



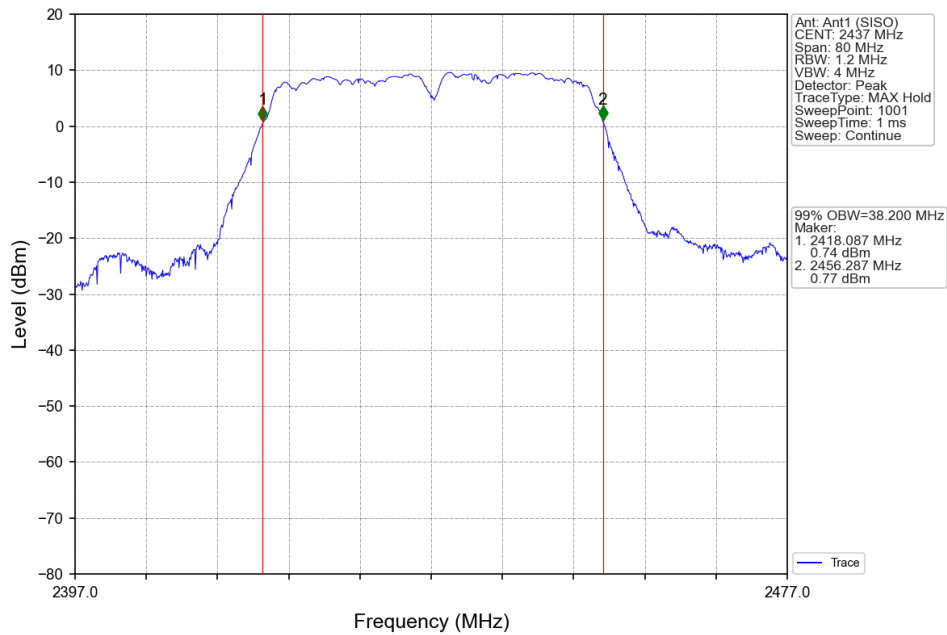
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



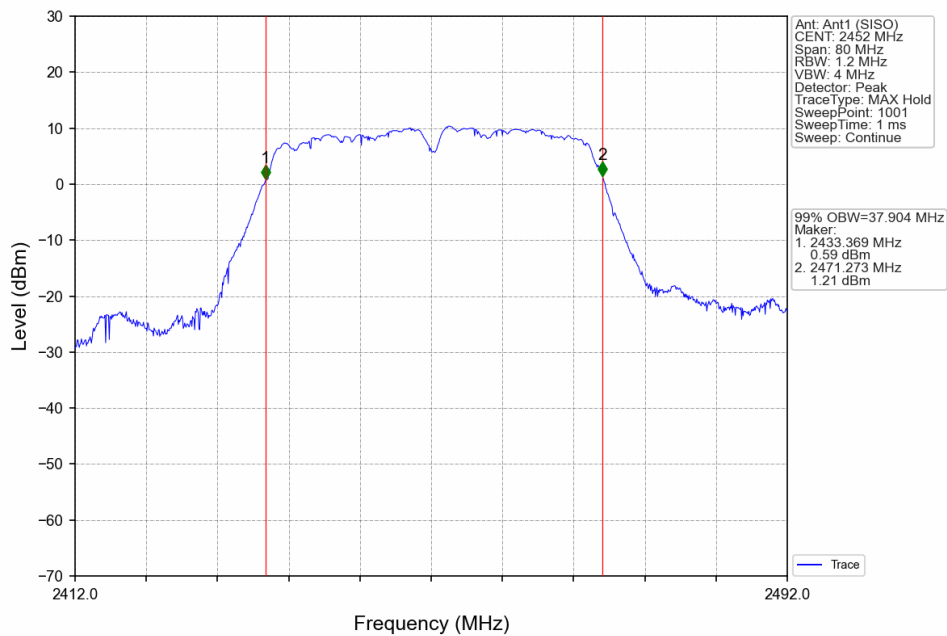
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

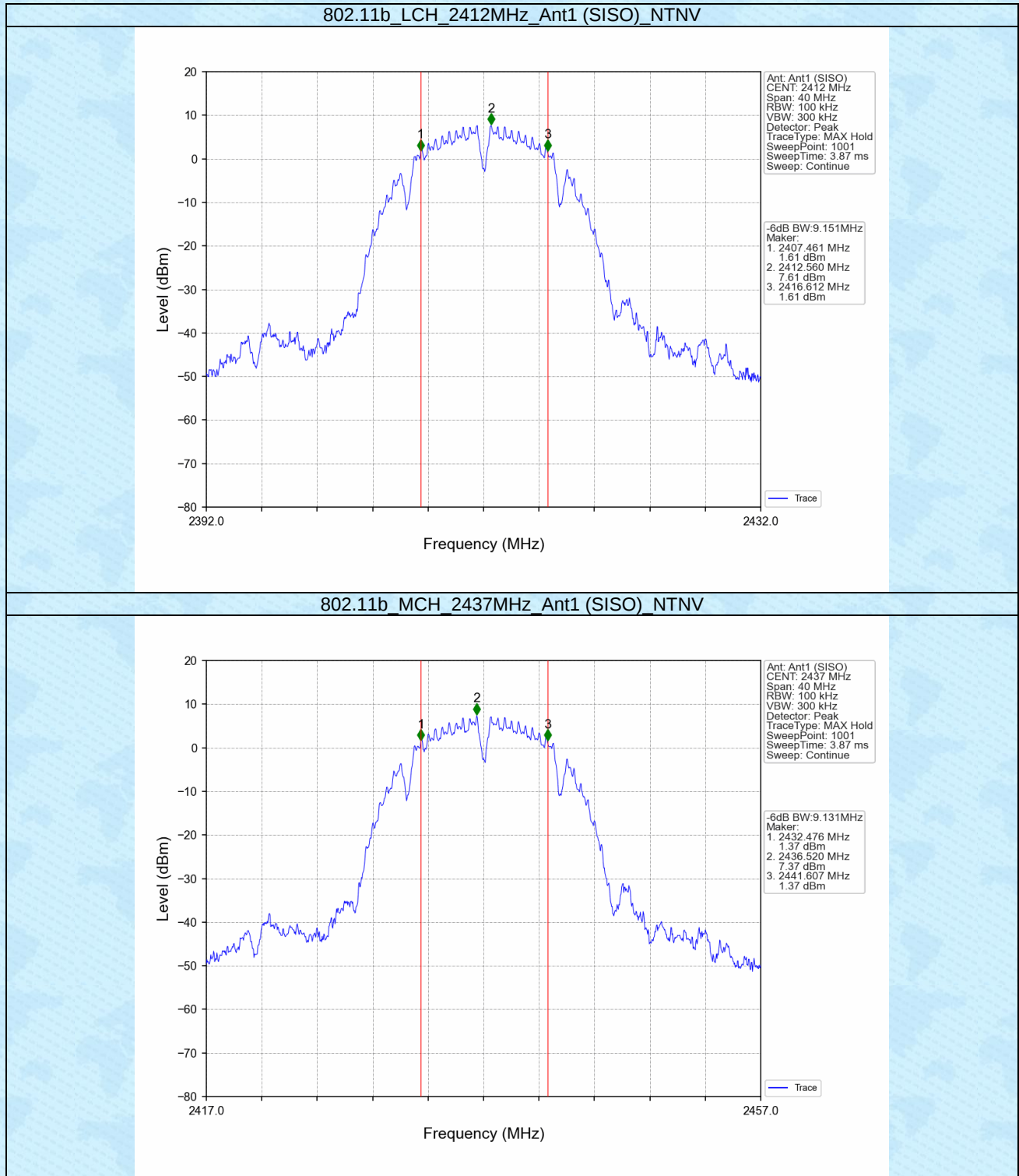


1.2 6dB BW

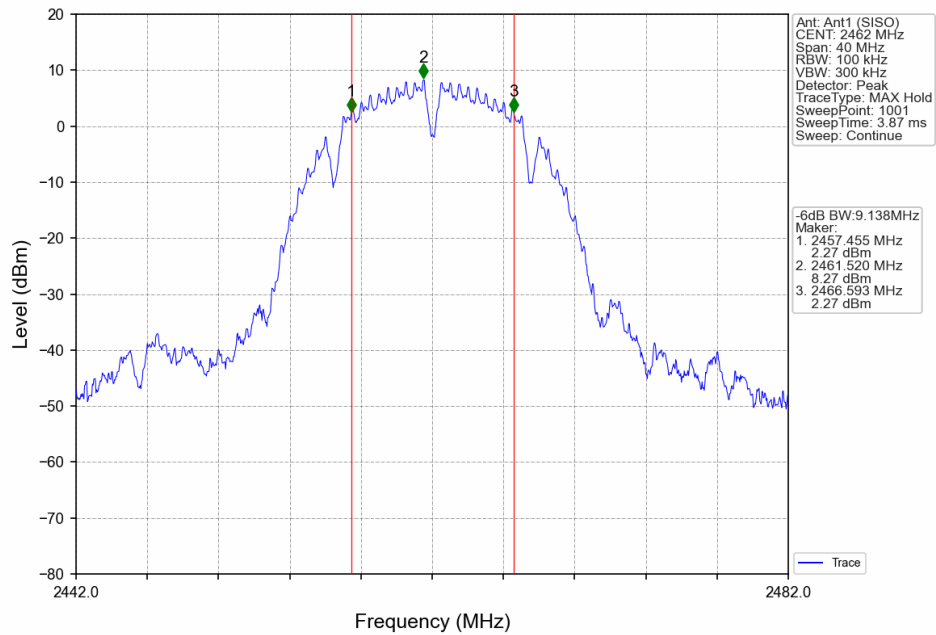
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.151	≥ 0.5	Pass
		2437	1	9.131	≥ 0.5	Pass
		2462	1	9.138	≥ 0.5	Pass
802.11g	SISO	2412	1	16.051	≥ 0.5	Pass
		2437	1	16.345	≥ 0.5	Pass
		2462	1	16.351	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.534	≥ 0.5	Pass
		2437	1	17.590	≥ 0.5	Pass
		2462	1	17.590	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.666	≥ 0.5	Pass
		2437	1	35.980	≥ 0.5	Pass
		2452	1	35.187	≥ 0.5	Pass

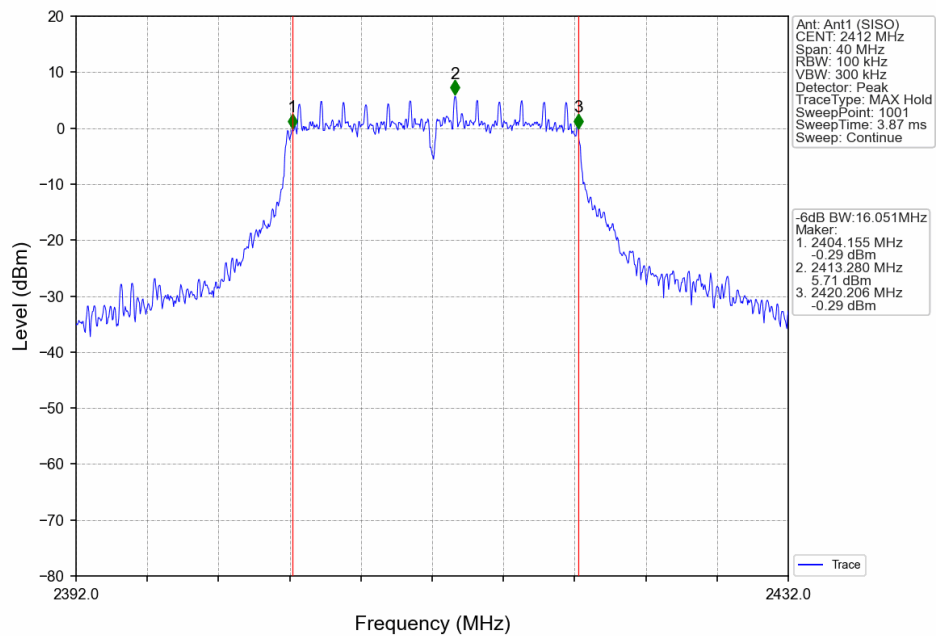
1.2.2 Test Graph



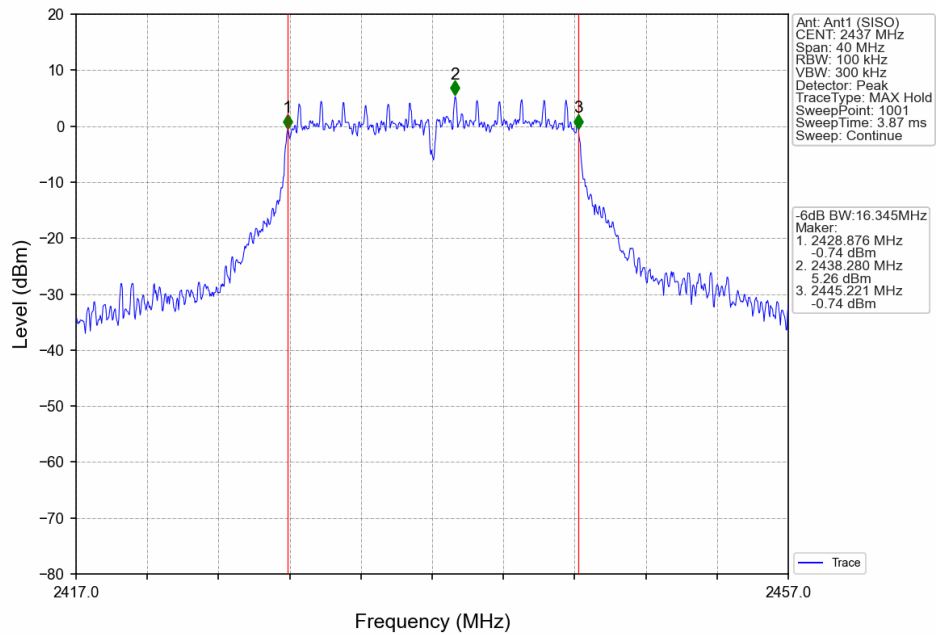
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



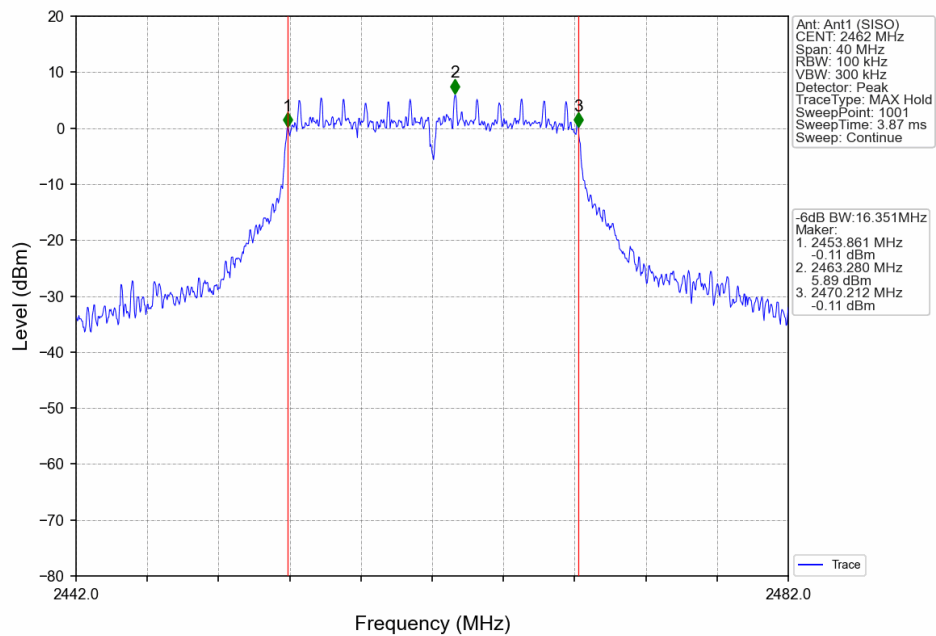
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



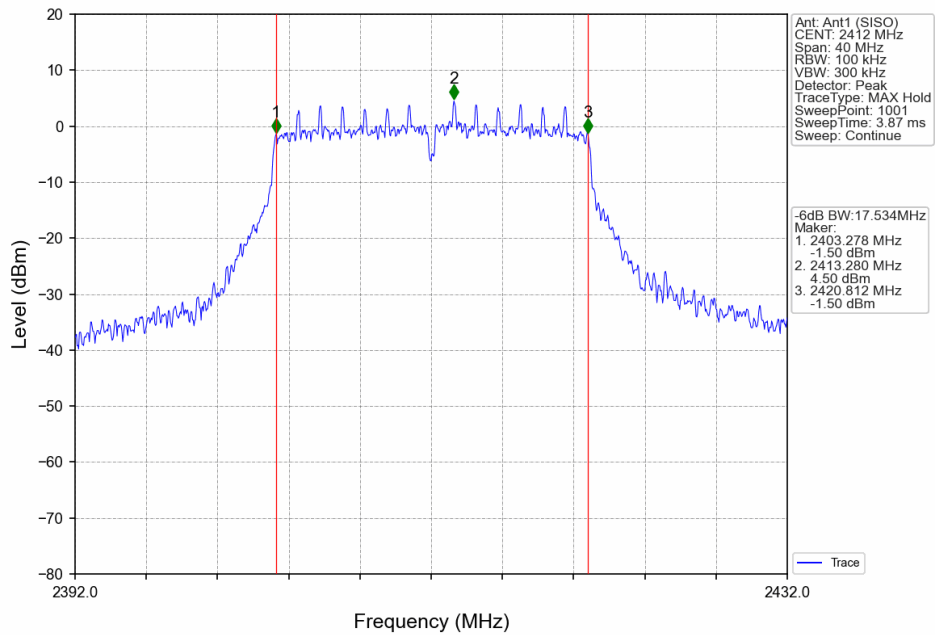
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



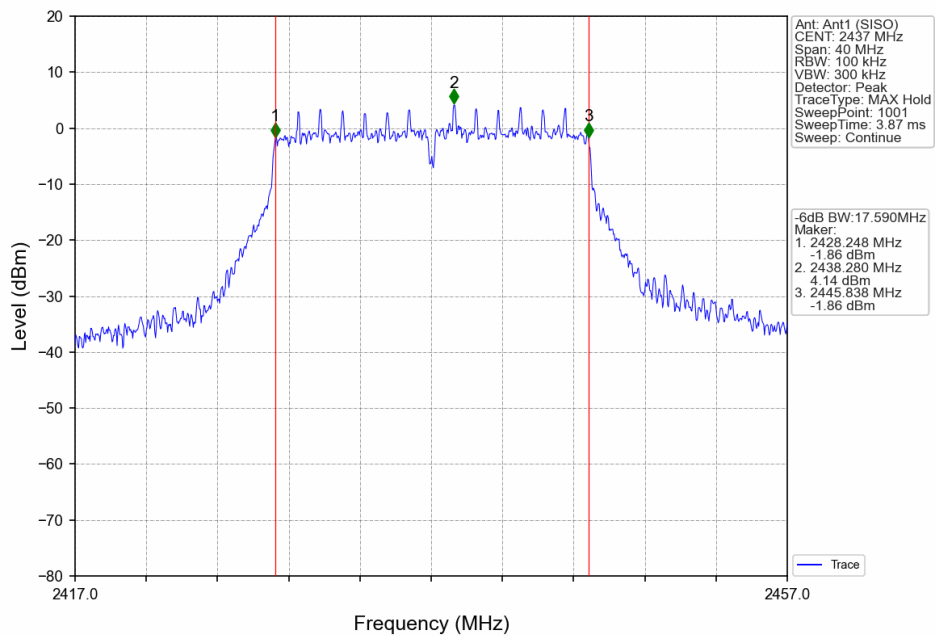
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



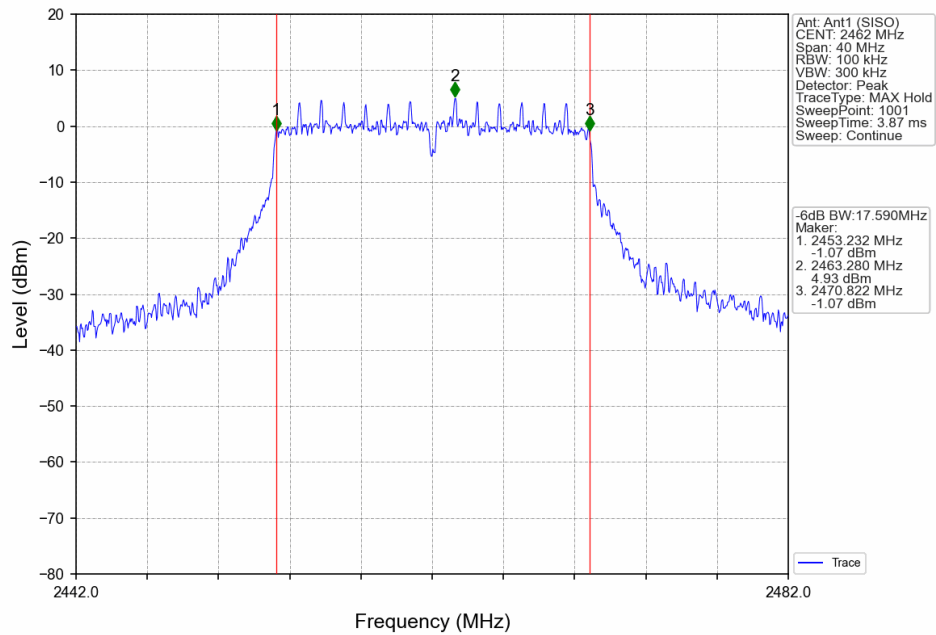
802.11n(HT20) LCH 2412MHz_Ant1 (SISO) NTN



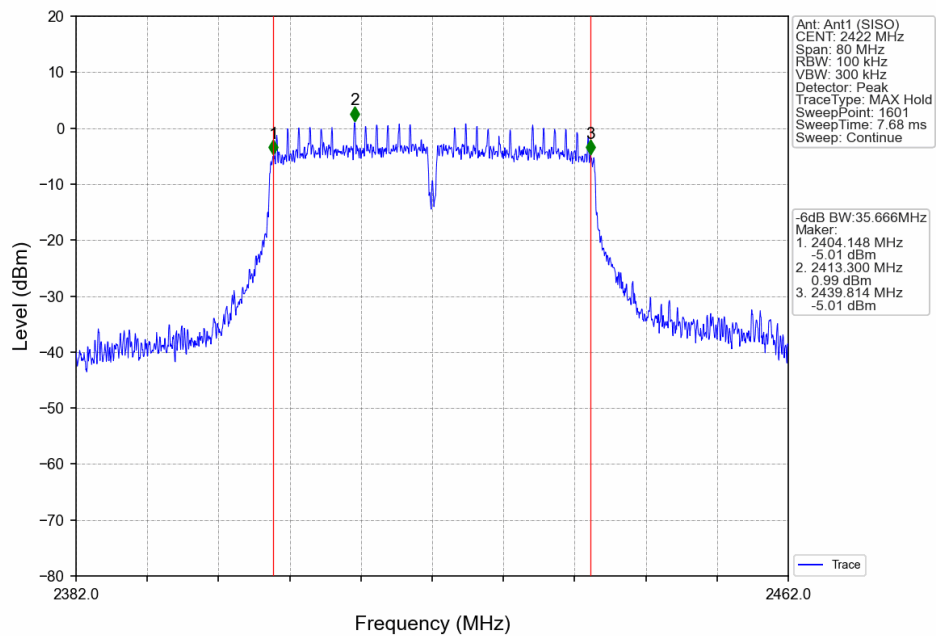
802.11n(HT20) MCH 2437MHz_Ant1 (SISO) NTN



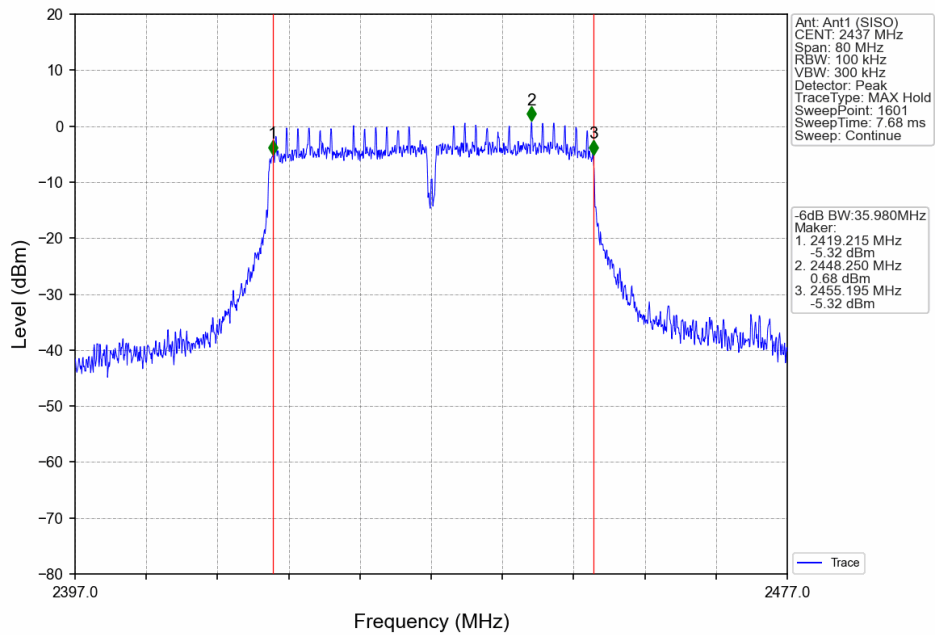
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



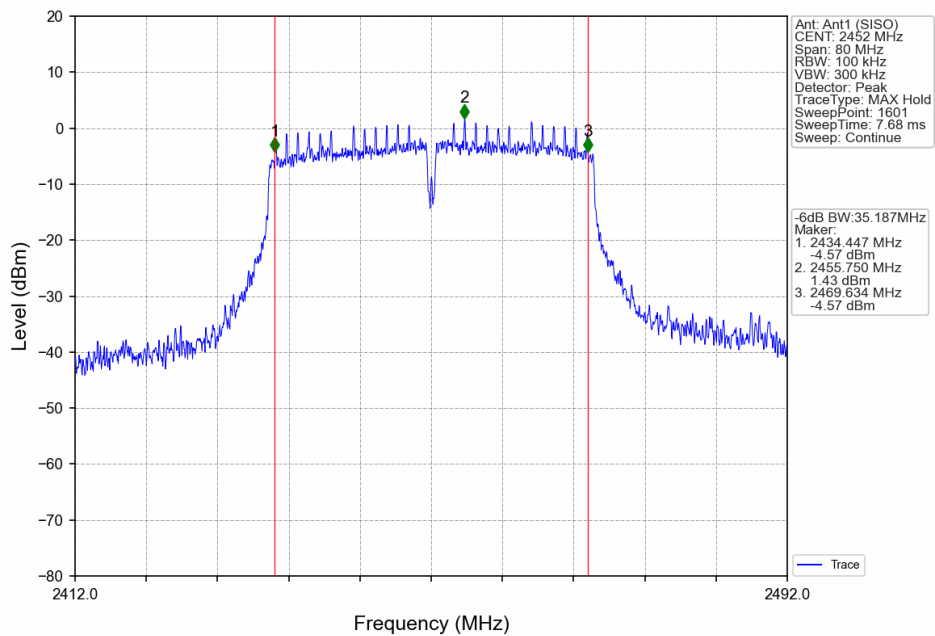
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

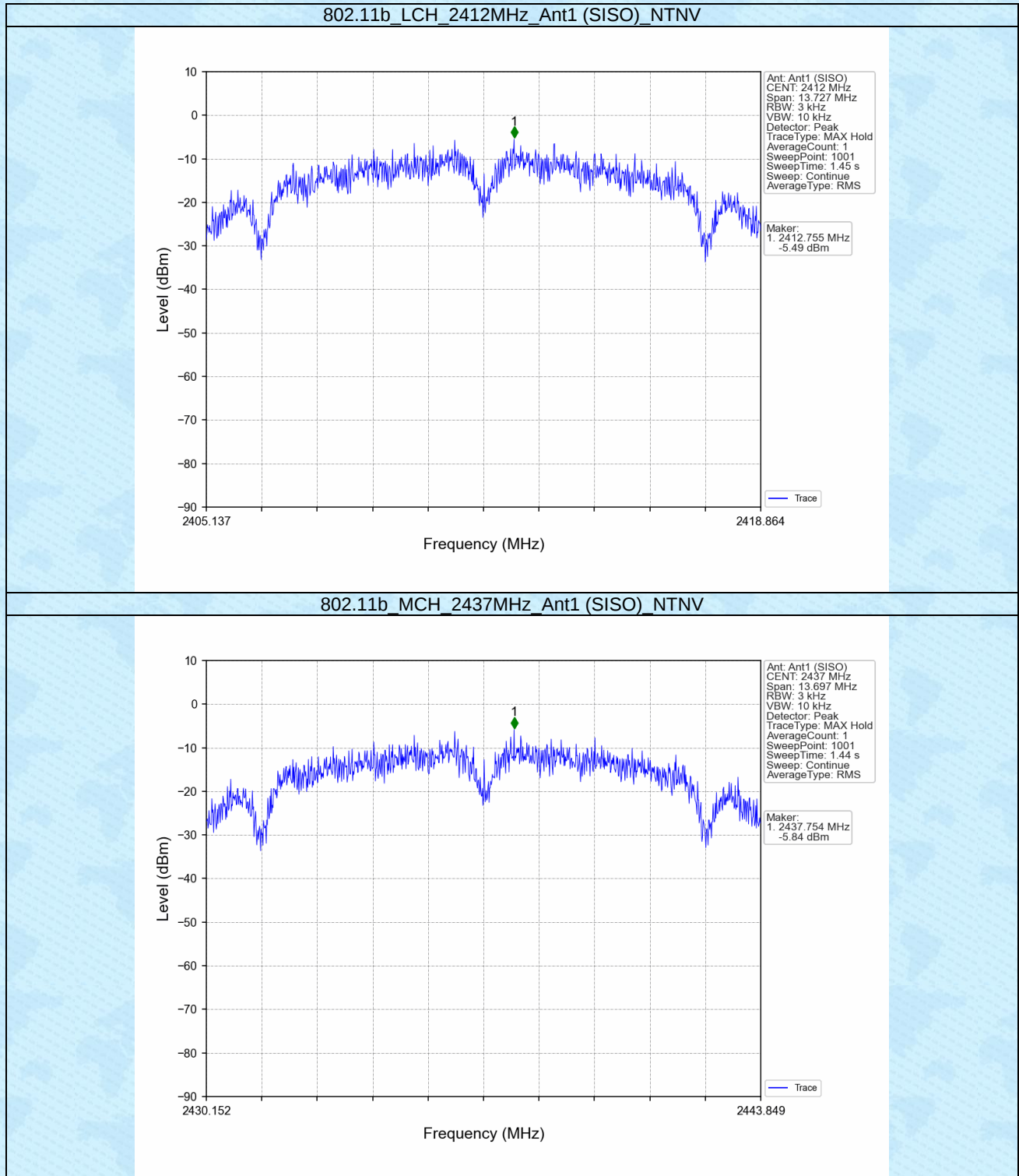
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	19.90	<=30	Pass
		2437	19.43	<=30	Pass
		2462	20.39	<=30	Pass
802.11g	SISO	2412	23.52	<=30	Pass
		2437	23.36	<=30	Pass
		2462	24.00	<=30	Pass
802.11n (HT20)	SISO	2412	22.54	<=30	Pass
		2437	22.41	<=30	Pass
		2462	23.29	<=30	Pass
802.11n (HT40)	SISO	2422	22.27	<=30	Pass
		2437	22.26	<=30	Pass
		2452	22.47	<=30	Pass

3. Maximum Power Spectral Density

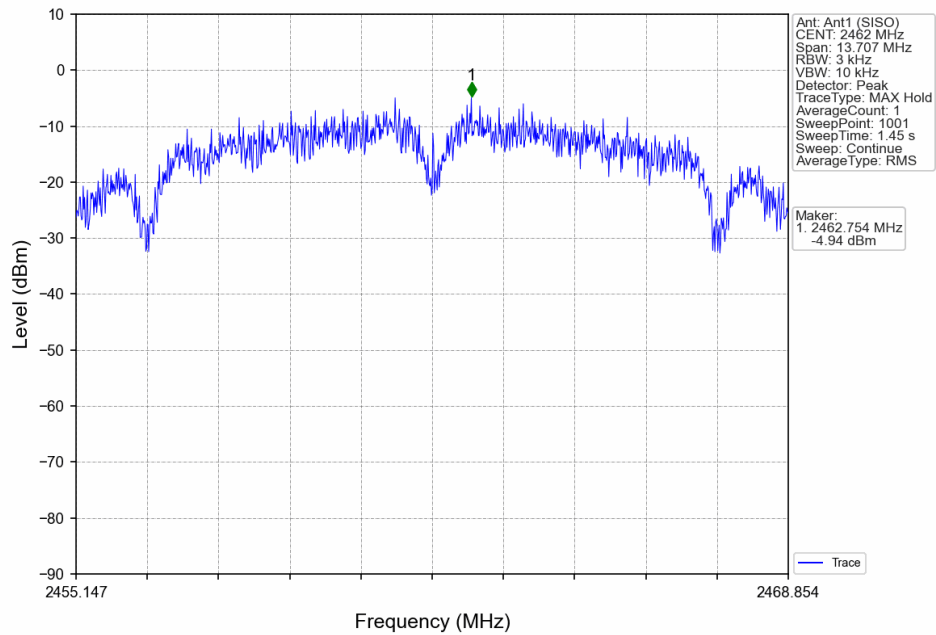
3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-5.49	<=8	Pass
		2437	-5.84	<=8	Pass
		2462	-4.94	<=8	Pass
802.11g	SISO	2412	-9.73	<=8	Pass
		2437	-10.26	<=8	Pass
		2462	-9.59	<=8	Pass
802.11n (HT20)	SISO	2412	-10.47	<=8	Pass
		2437	-10.89	<=8	Pass
		2462	-9.70	<=8	Pass
802.11n (HT40)	SISO	2422	-12.52	<=8	Pass
		2437	-14.74	<=8	Pass
		2452	-12.24	<=8	Pass

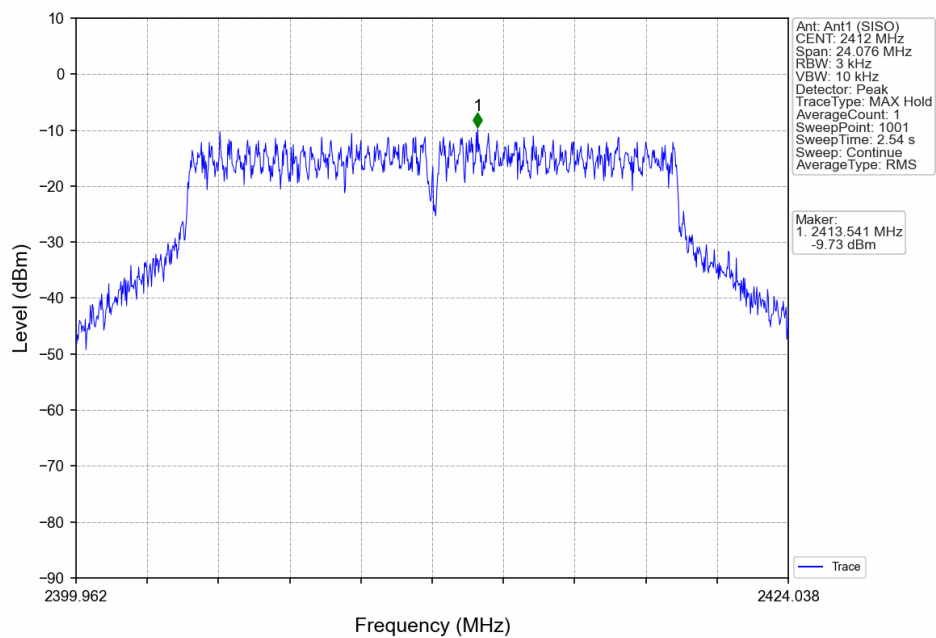
3.2 Test Graph



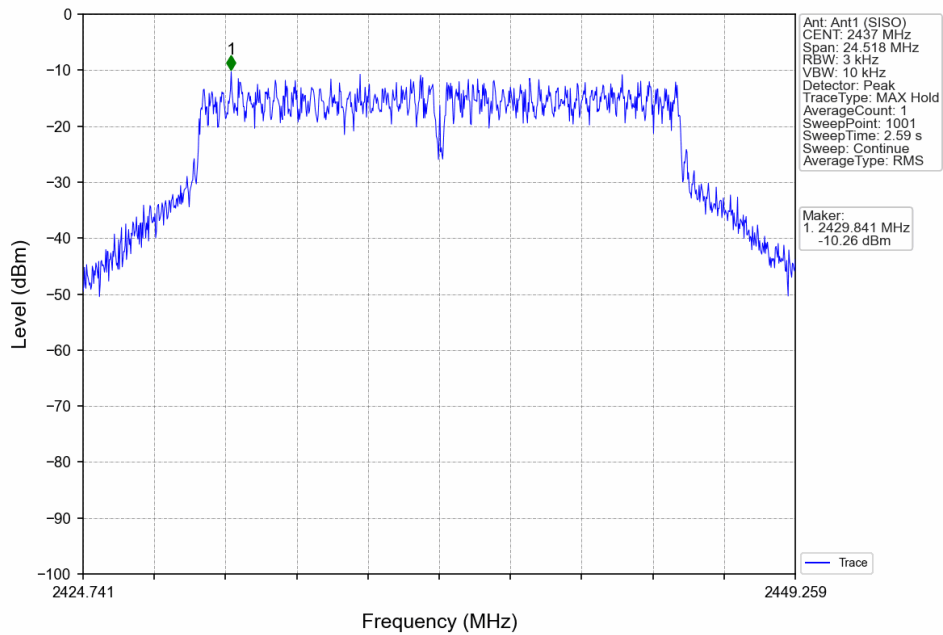
802.11b HCH 2462MHz Ant1 (SISO) NTNV



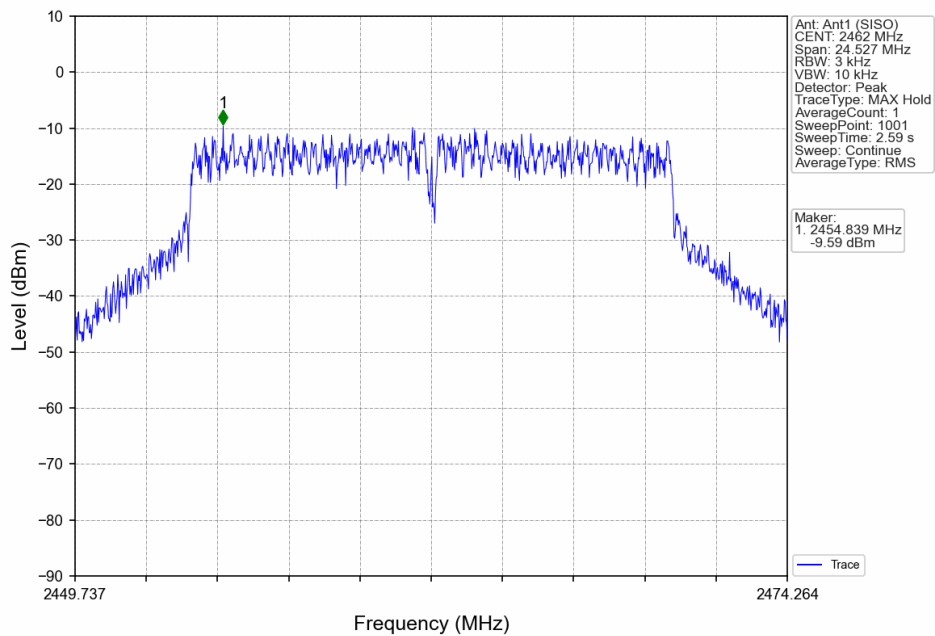
802.11g LCH 2412MHz Ant1 (SISO) NTNV



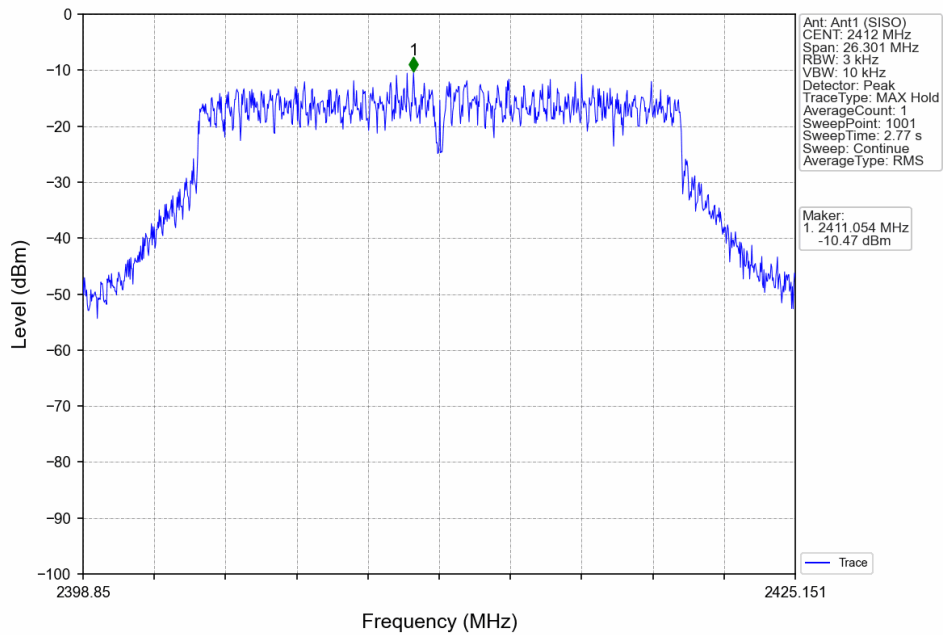
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



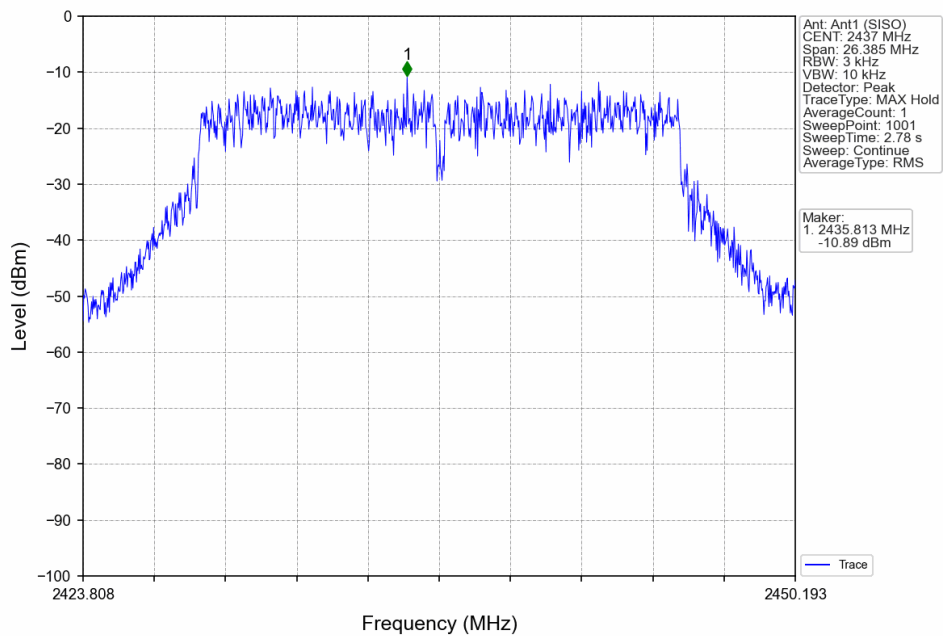
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



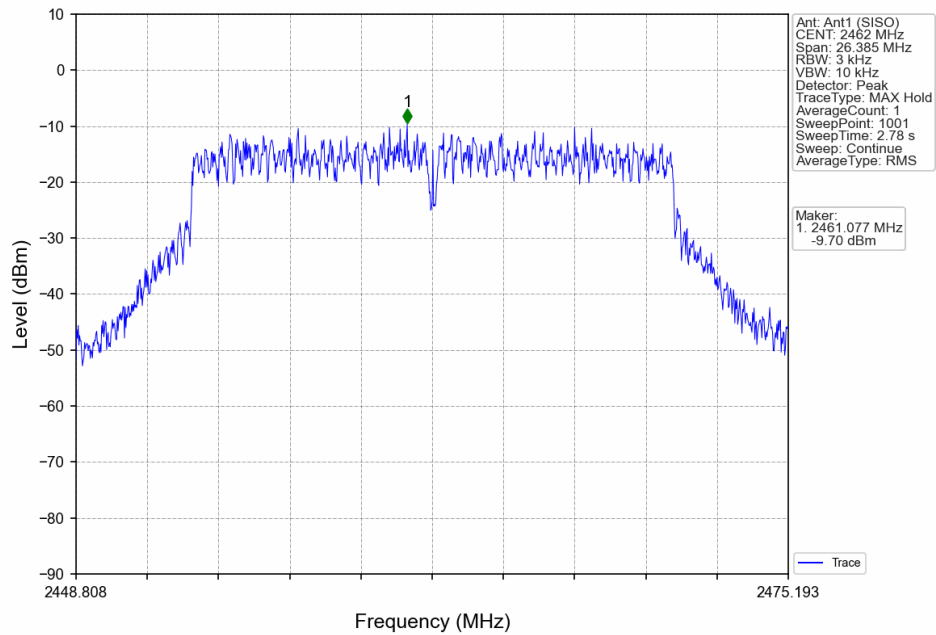
802.11n(HT20) LCH 2412MHz_Ant1 (SISO) NTN



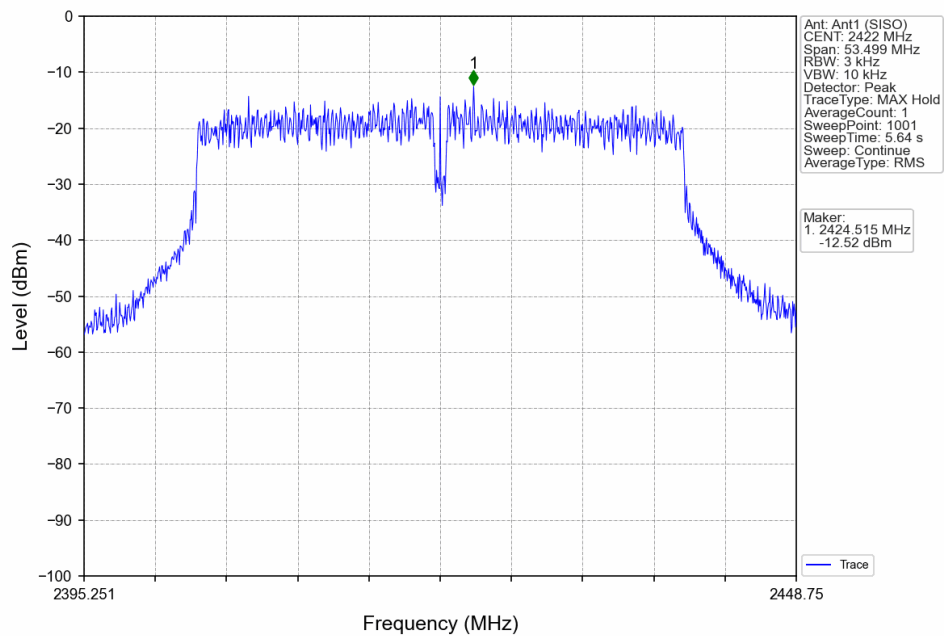
802.11n(HT20) MCH 2437MHz_Ant1 (SISO) NTN



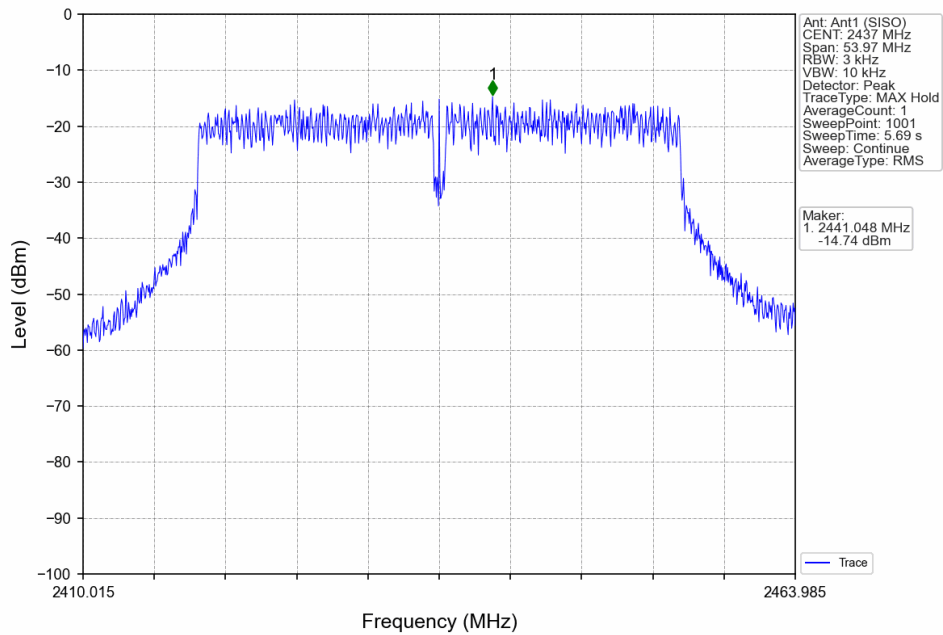
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



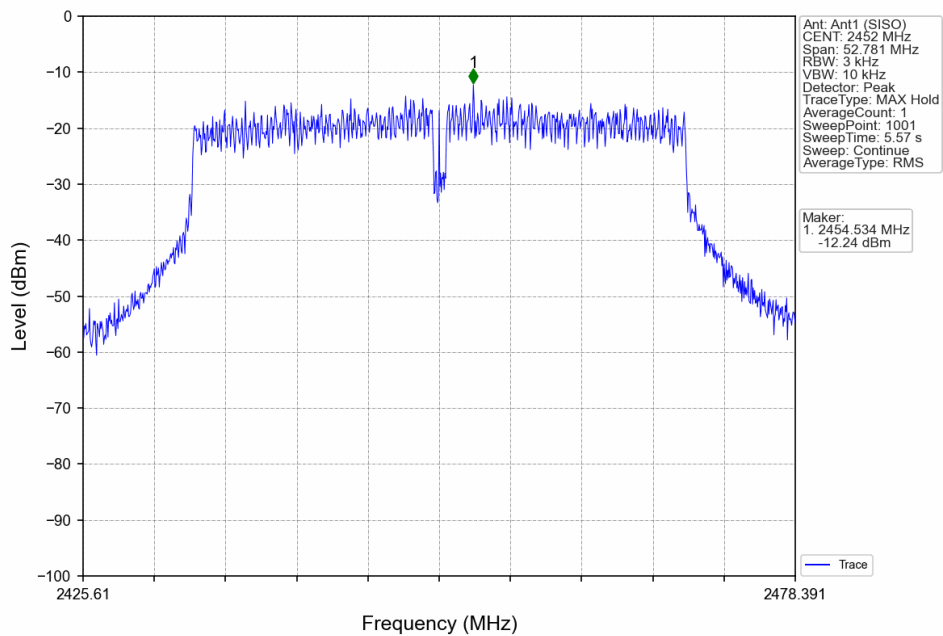
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTN



802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTN



4. Unwanted Emissions In Non-restricted Frequency Bands

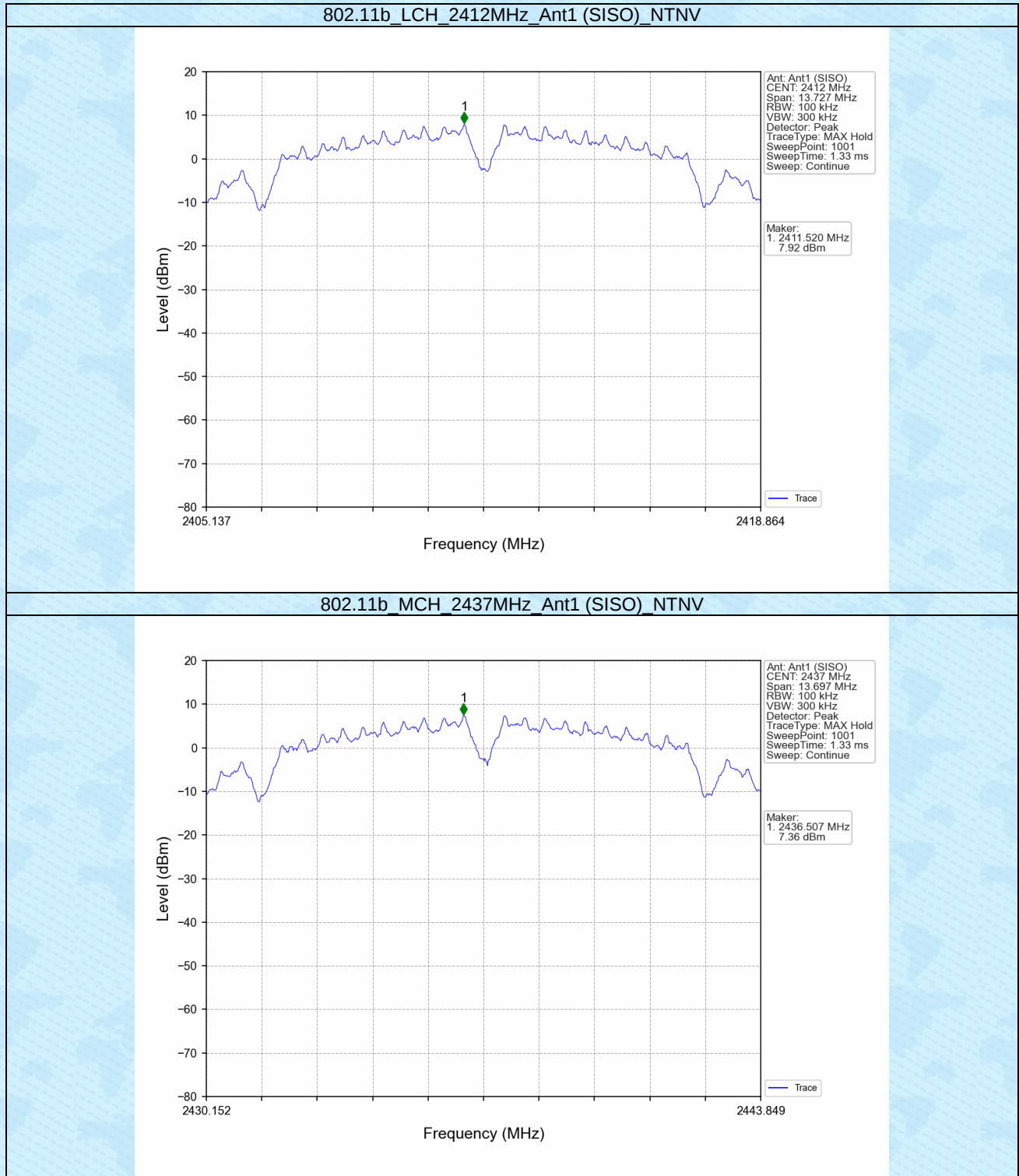
4.1 Ref

4.1.1 Test Result

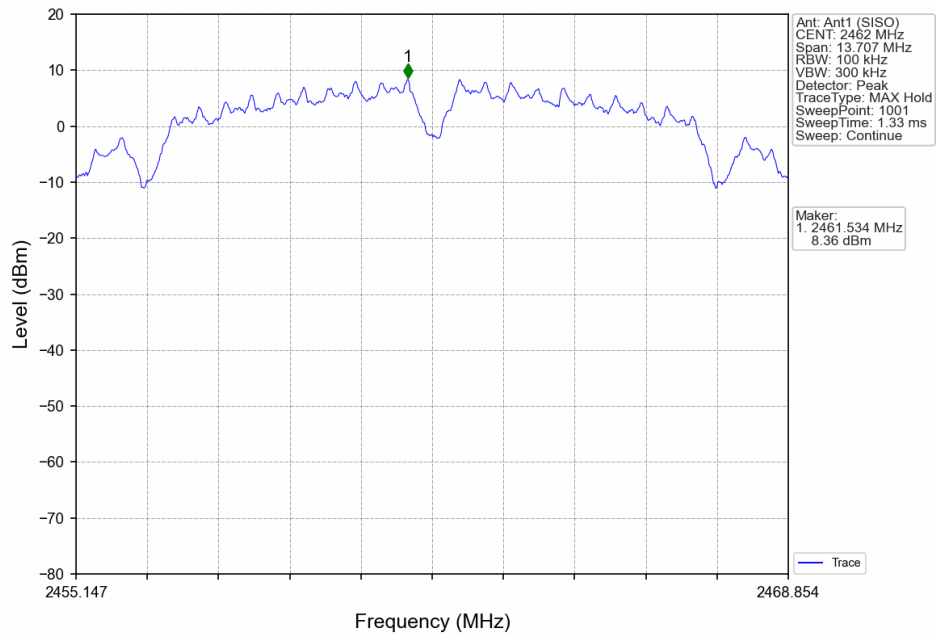
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.92
		2437	1	7.36
		2462	1	8.36
802.11g	SISO	2412	1	5.60
		2437	1	4.78
		2462	1	5.90
802.11n (HT20)	SISO	2412	1	3.85
		2437	1	4.09
		2462	1	5.08
802.11n (HT40)	SISO	2422	1	0.68
		2437	1	1.03
		2452	1	1.39

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.

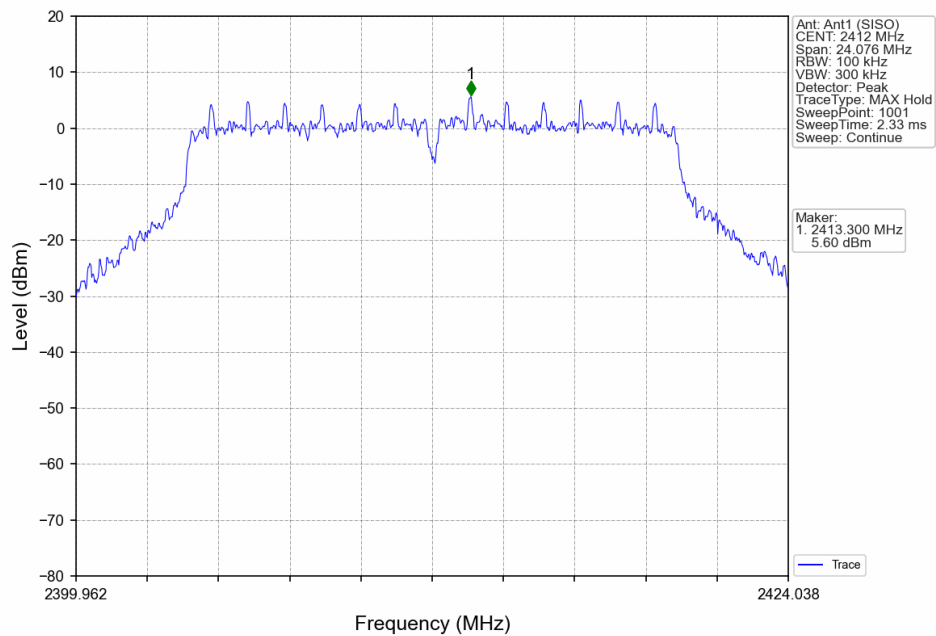
4.1.2 Test Graph



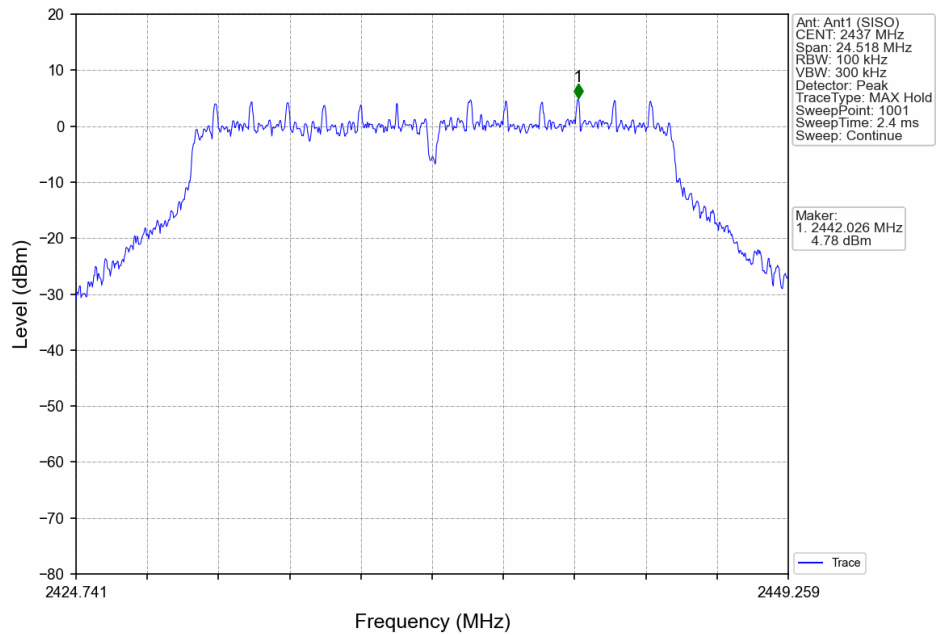
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



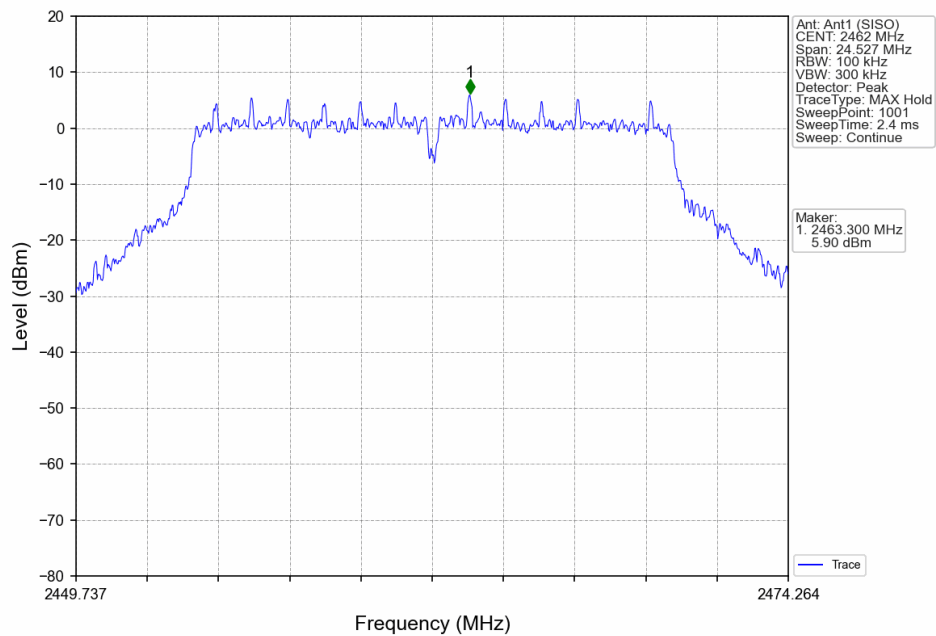
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



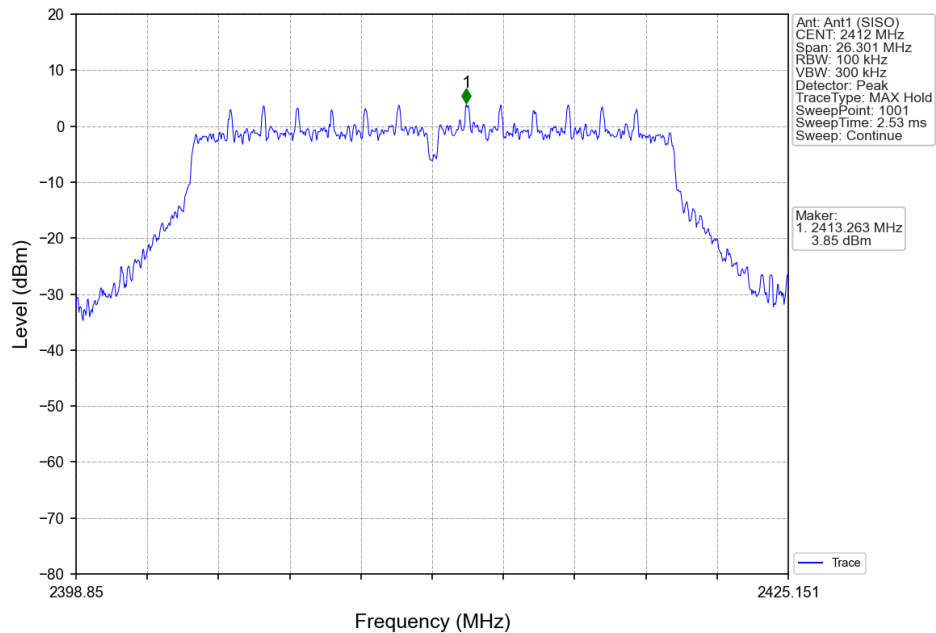
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



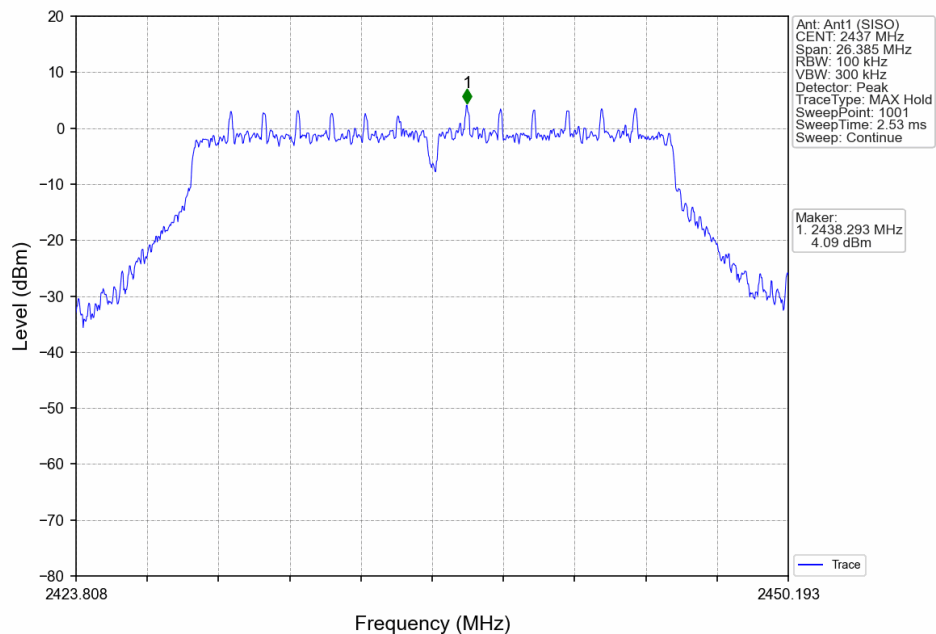
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



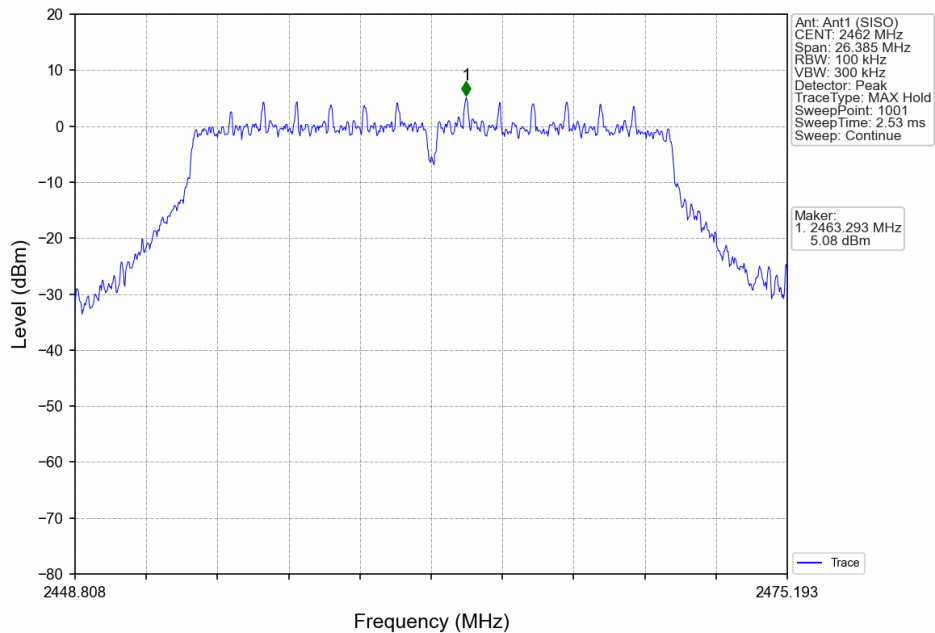
802.11n(HT20) LCH 2412MHz_Ant1 (SISO) NTN



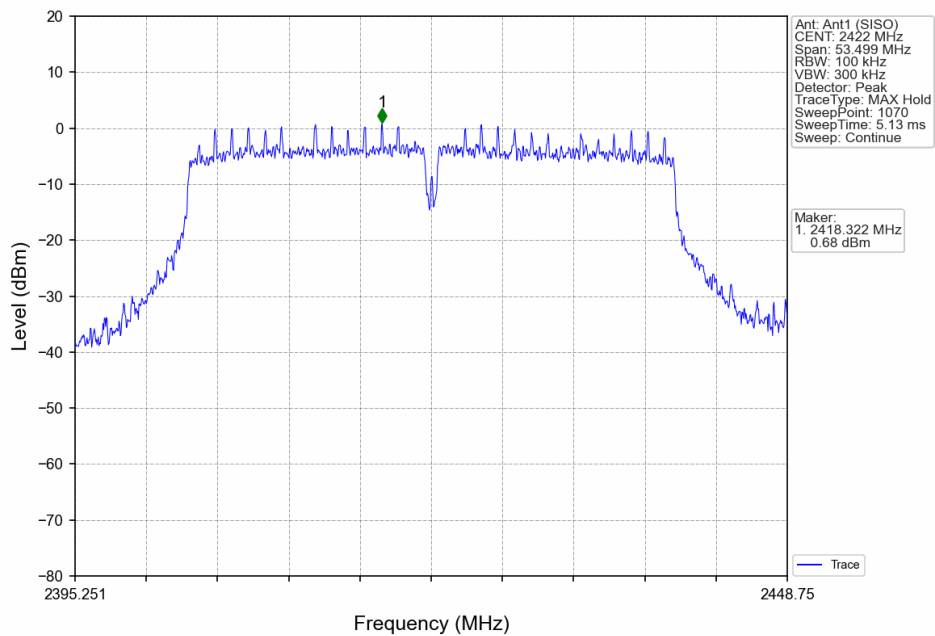
802.11n(HT20) MCH 2437MHz_Ant1 (SISO) NTN



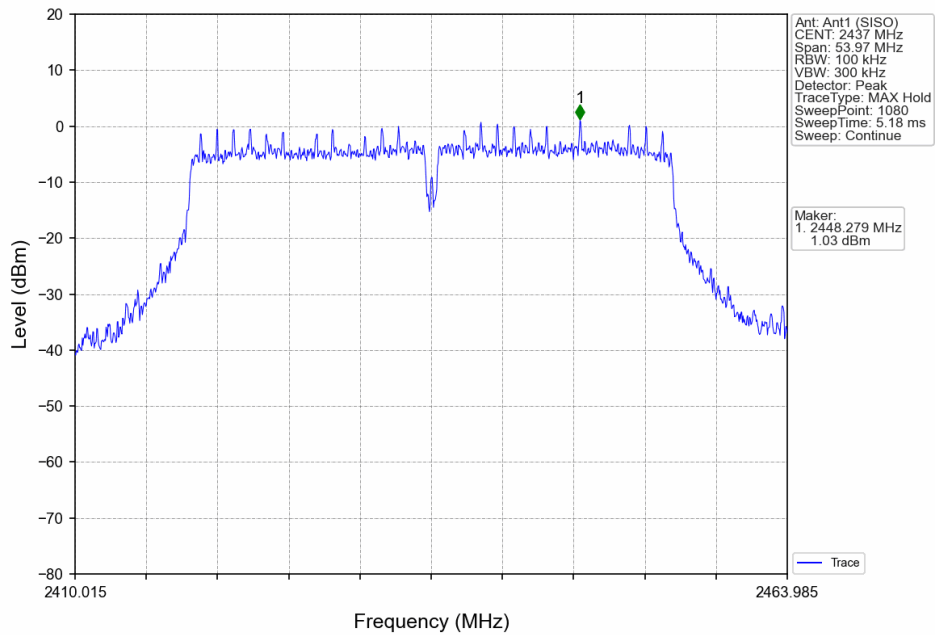
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



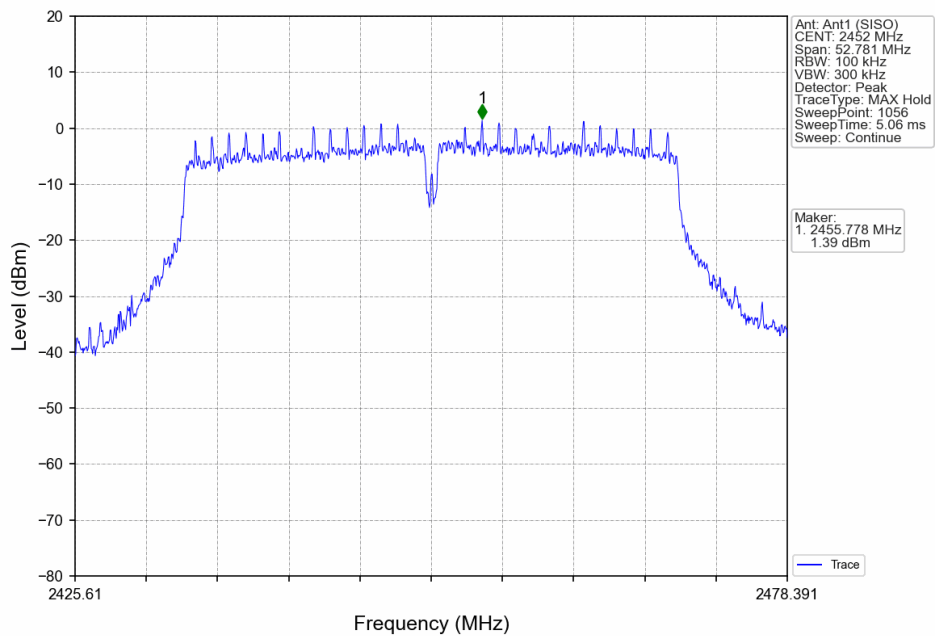
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



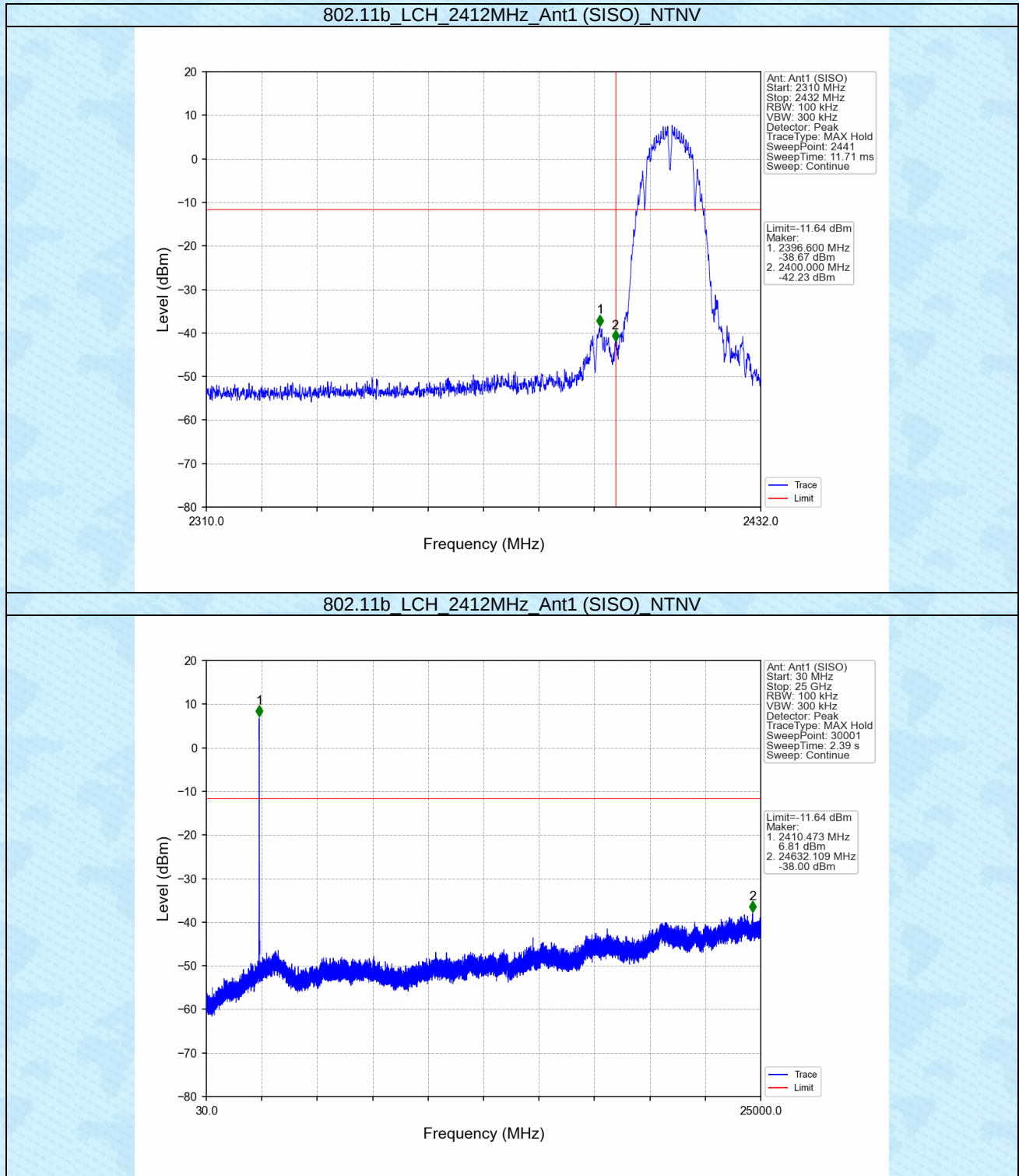
4.2 CSE

4.2.1 Test Result

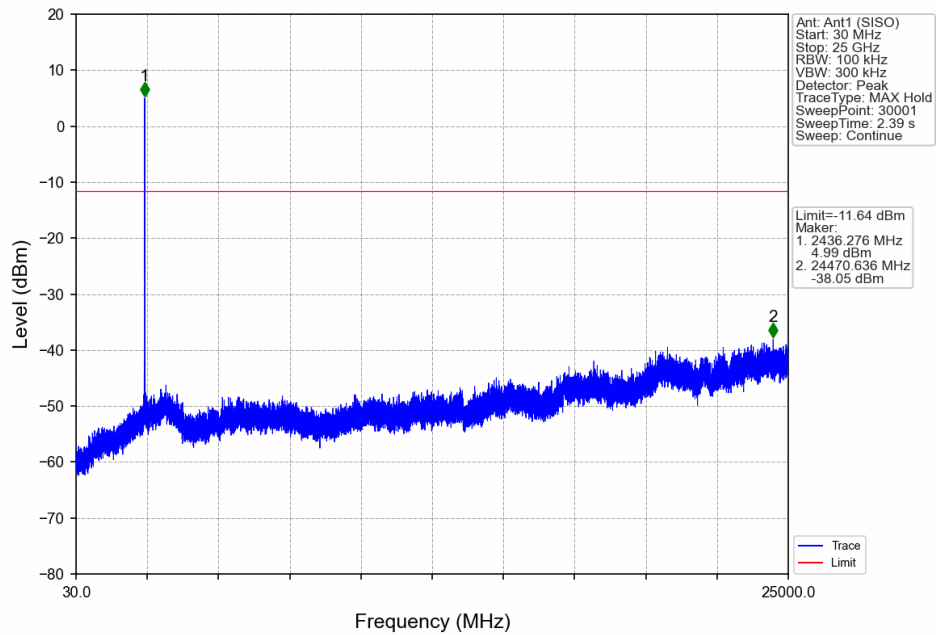
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.36	-11.64	Pass
		2437	1	8.36	-11.64	Pass
		2462	1	8.36	-11.64	Pass
802.11g	SISO	2412	1	5.90	-14.10	Pass
		2437	1	5.90	-14.10	Pass
		2462	1	5.90	-14.10	Pass
802.11n (HT20)	SISO	2412	1	5.08	-14.92	Pass
		2437	1	5.08	-14.92	Pass
		2462	1	5.08	-14.92	Pass
802.11n (HT40)	SISO	2422	1	1.39	-18.61	Pass
		2437	1	1.39	-18.61	Pass
		2452	1	1.39	-18.61	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.

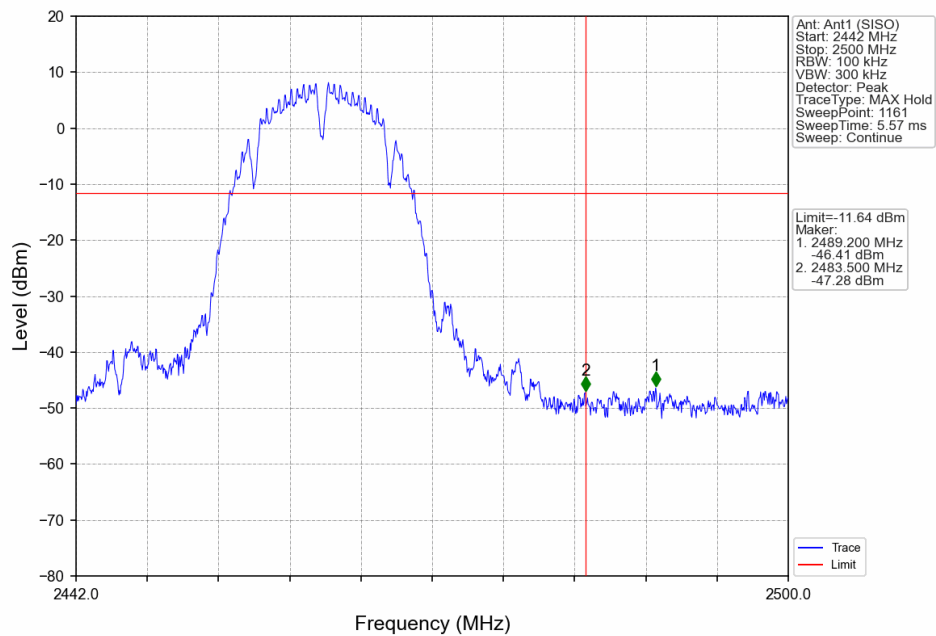
4.2.2 Test Graph



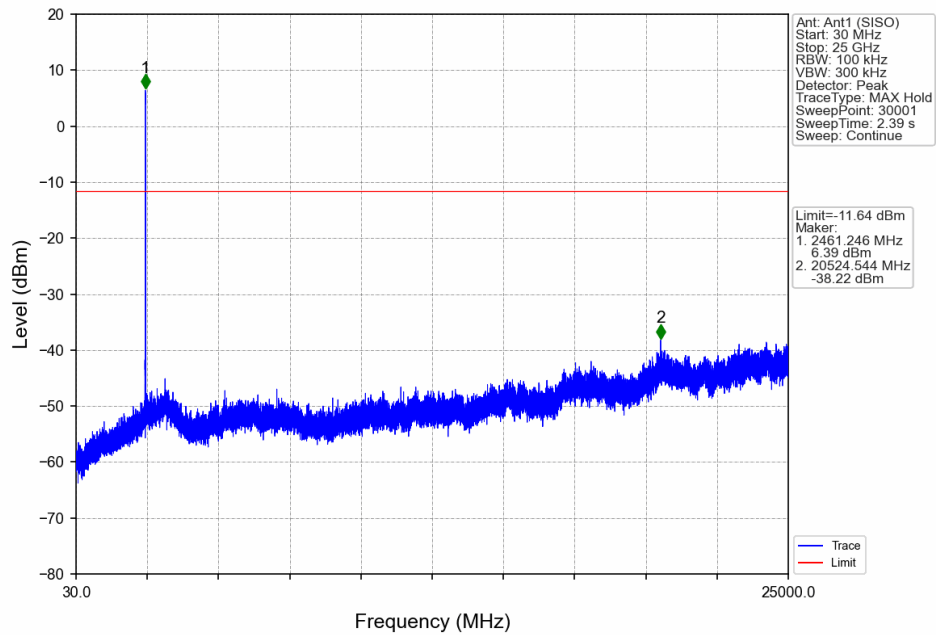
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



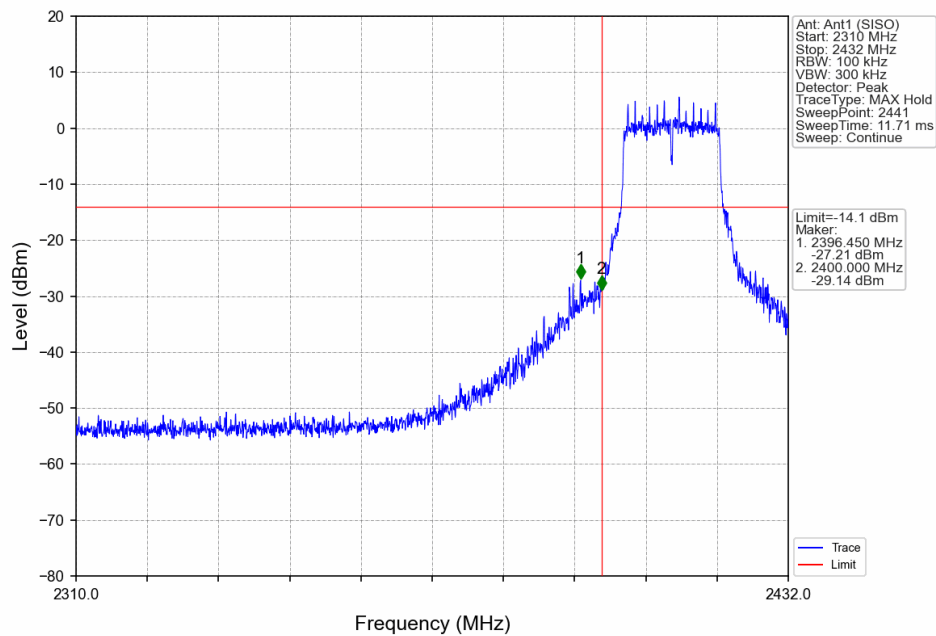
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



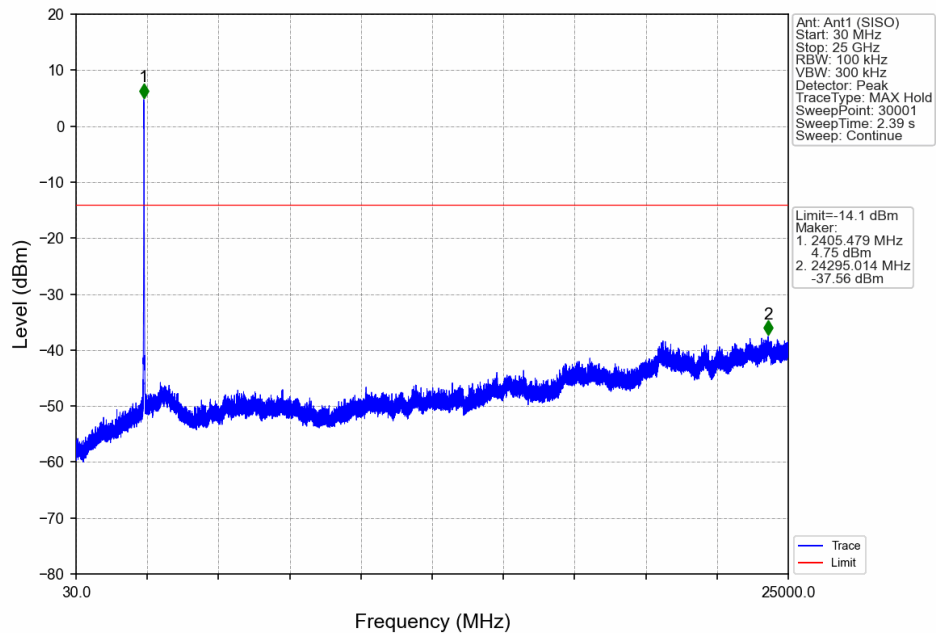
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



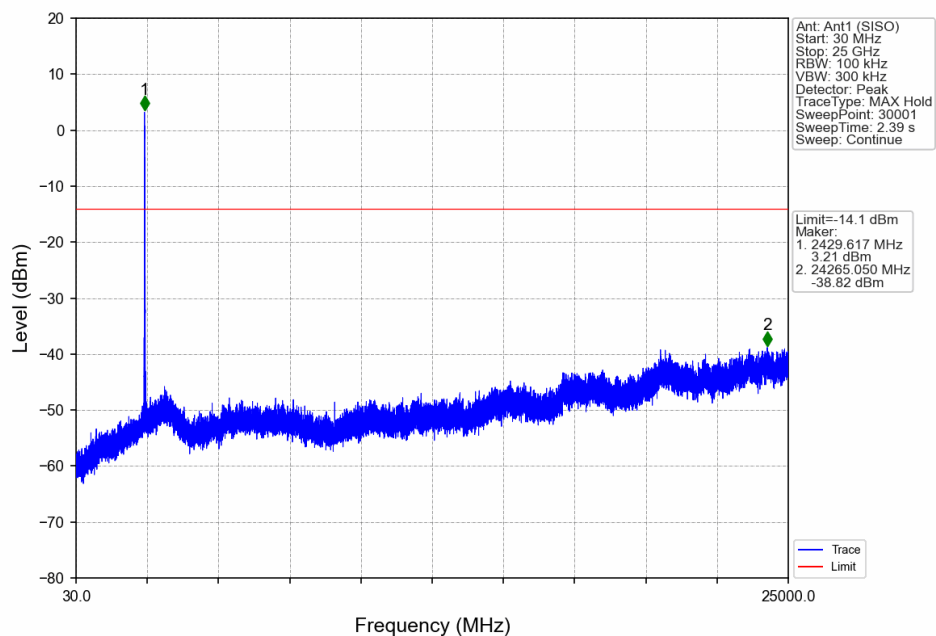
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



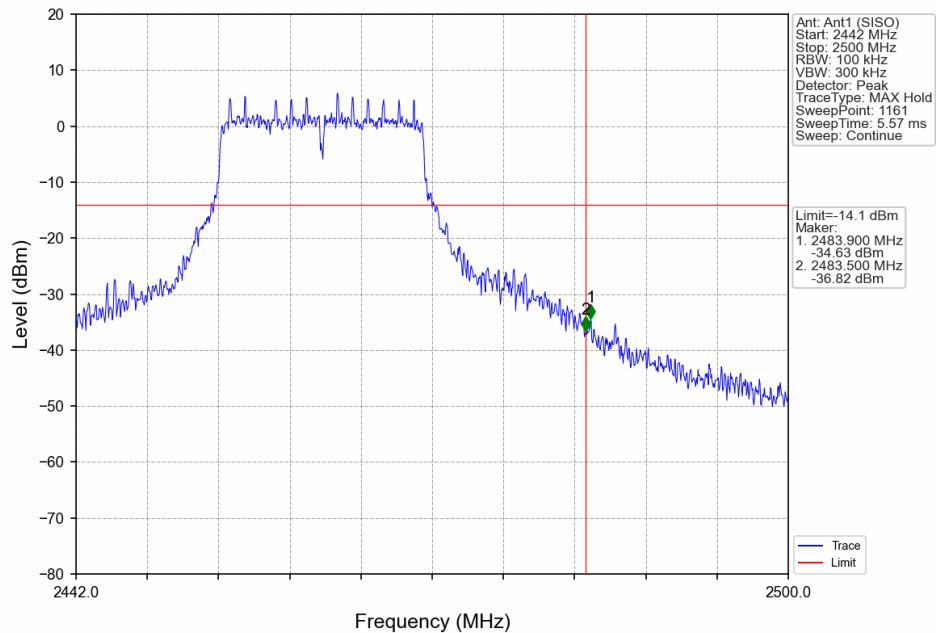
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



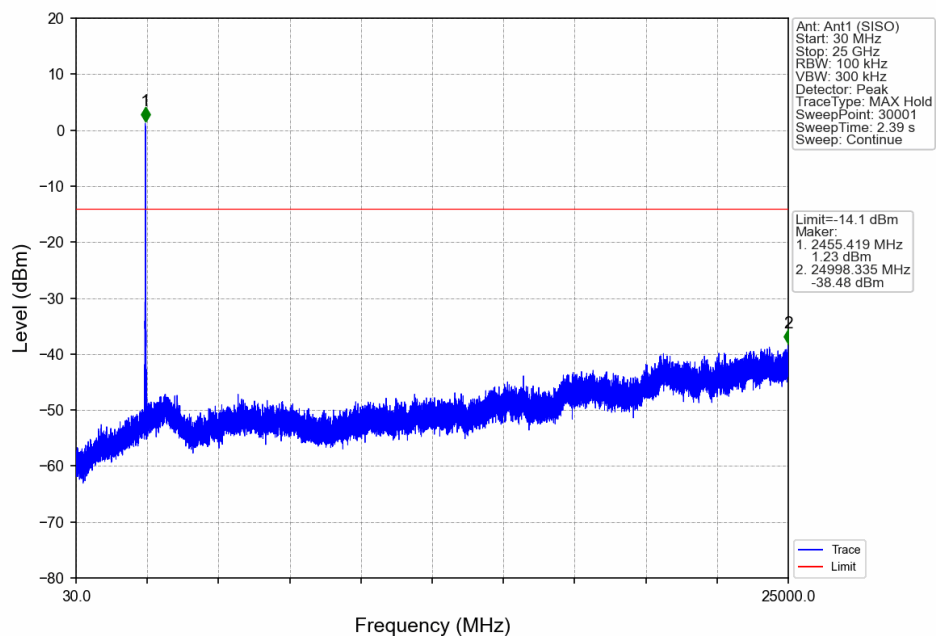
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



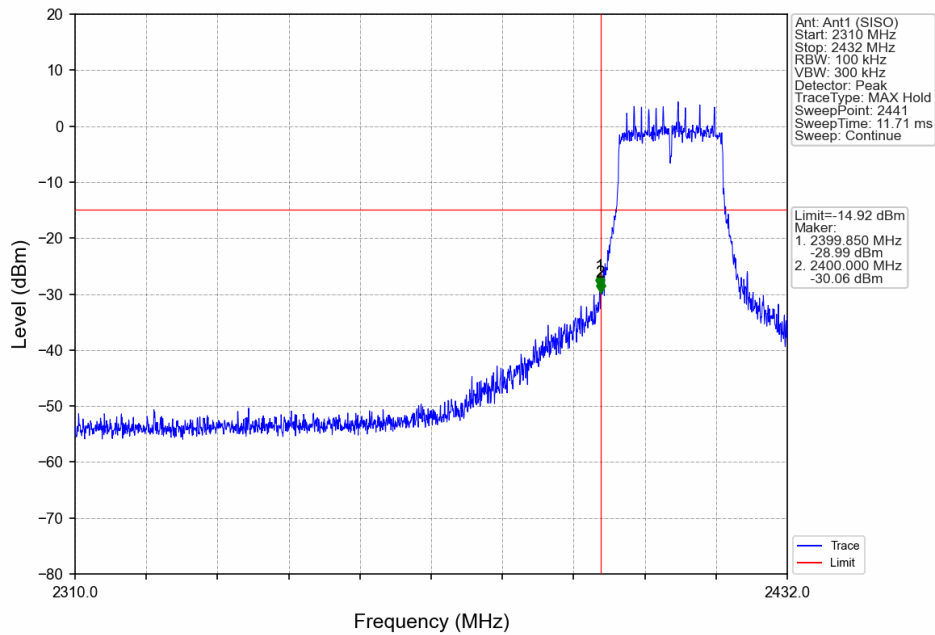
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



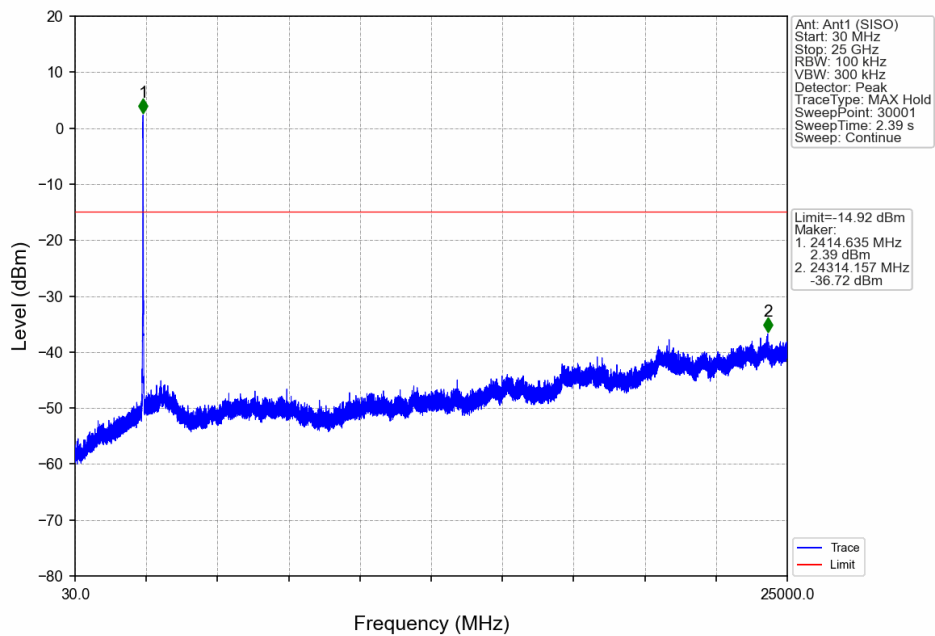
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



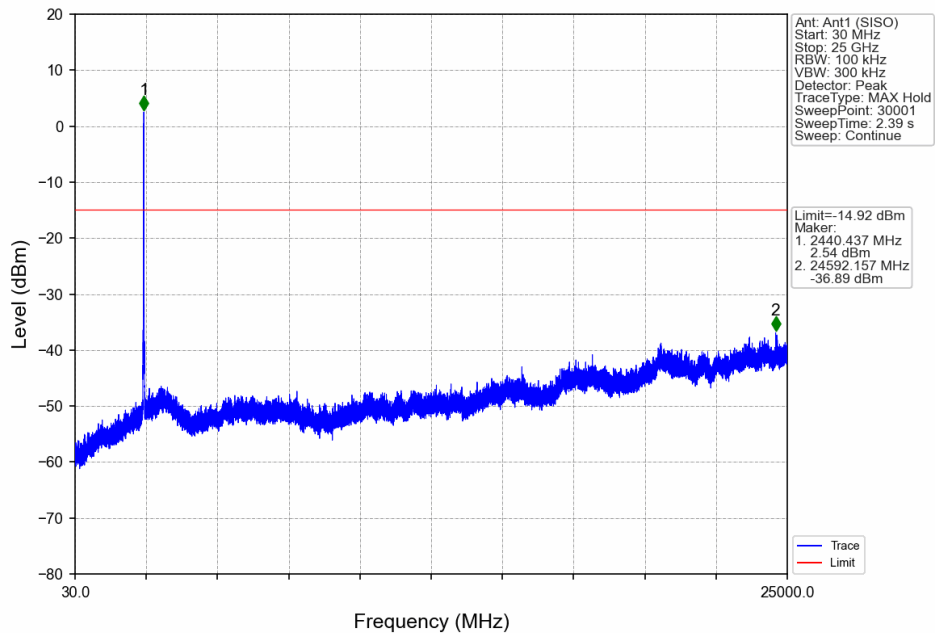
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



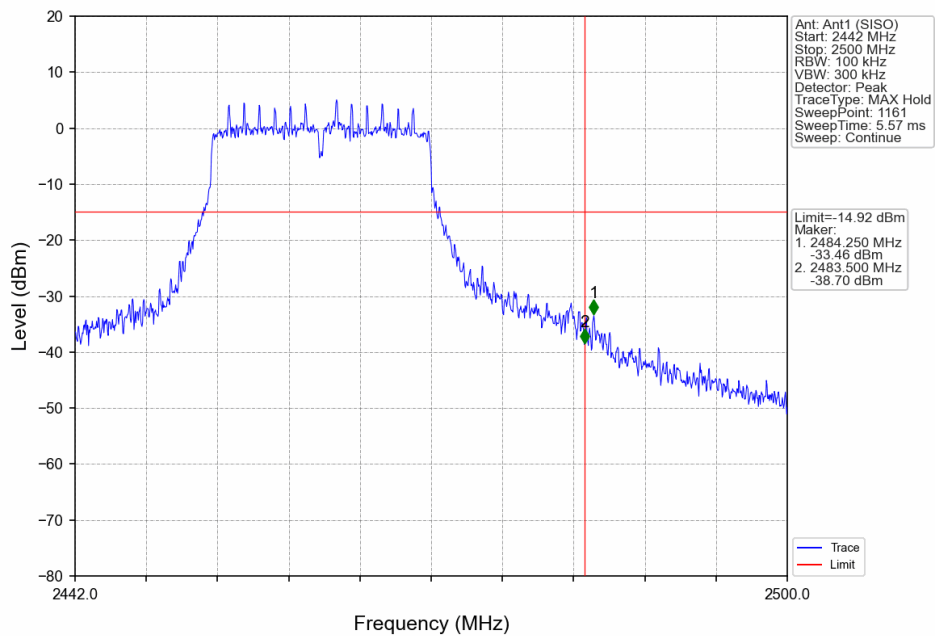
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



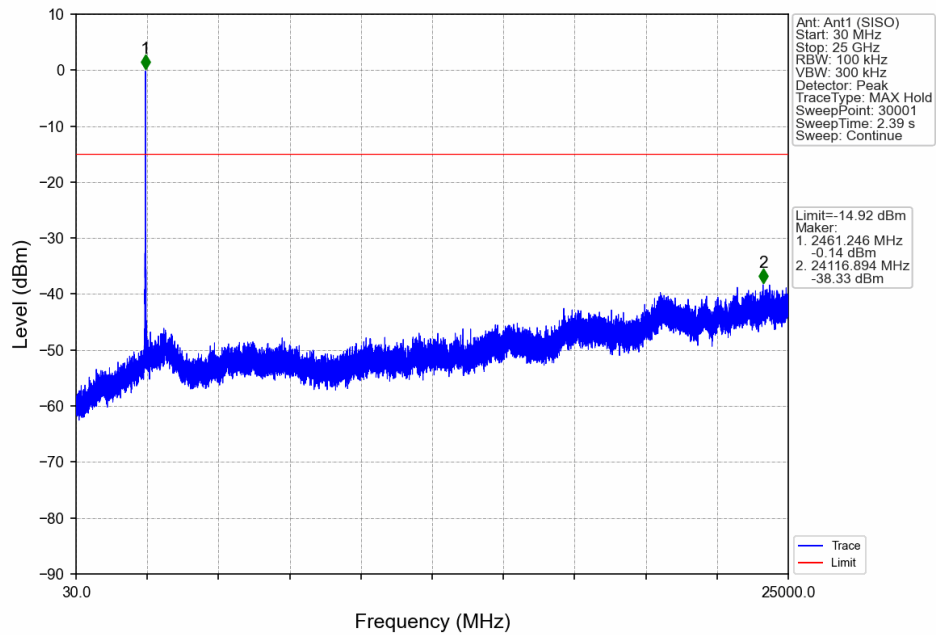
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



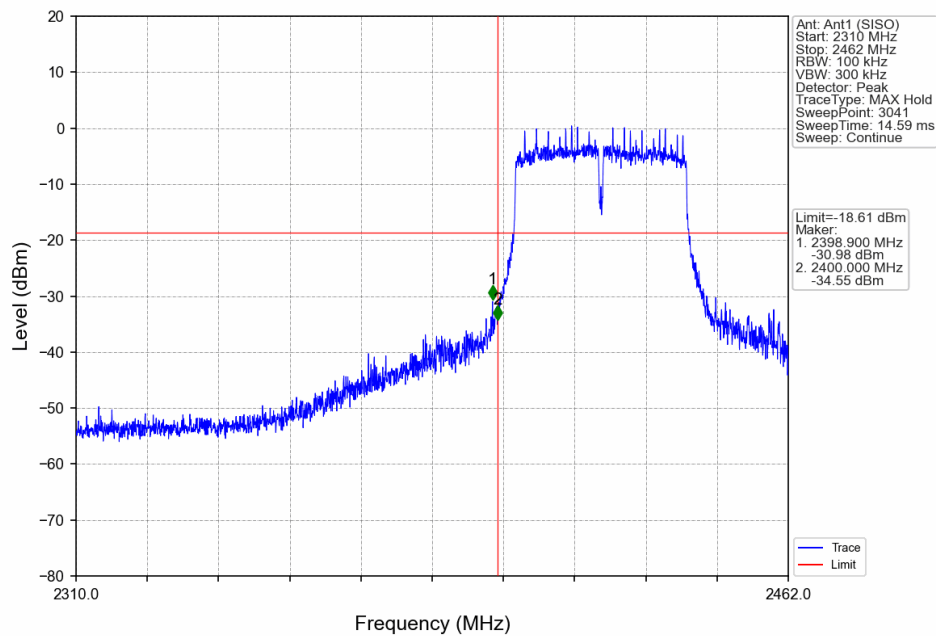
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



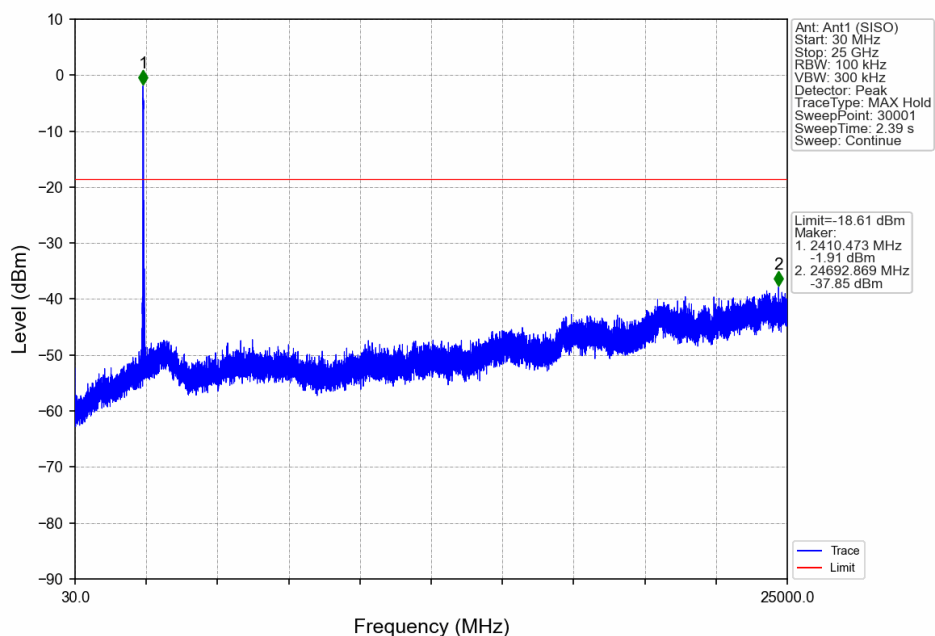
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



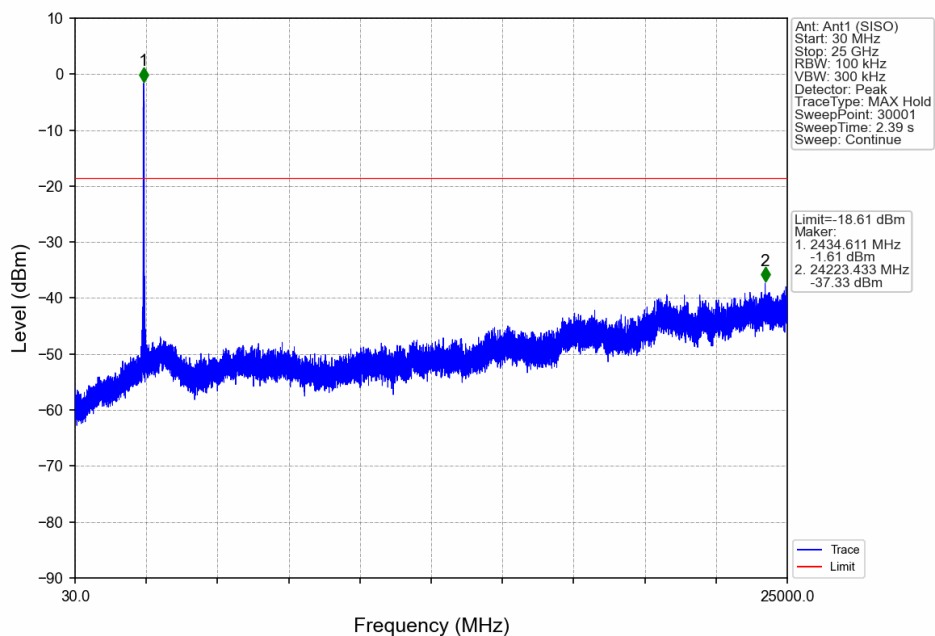
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



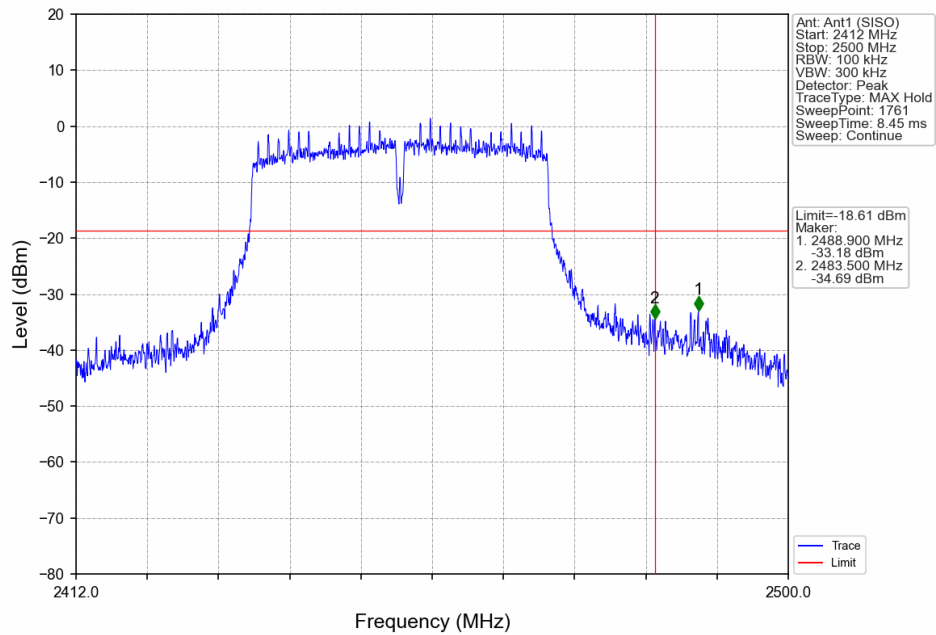
802.11n(HT40) LCH 2422MHz_Ant1 (SISO) NTNv



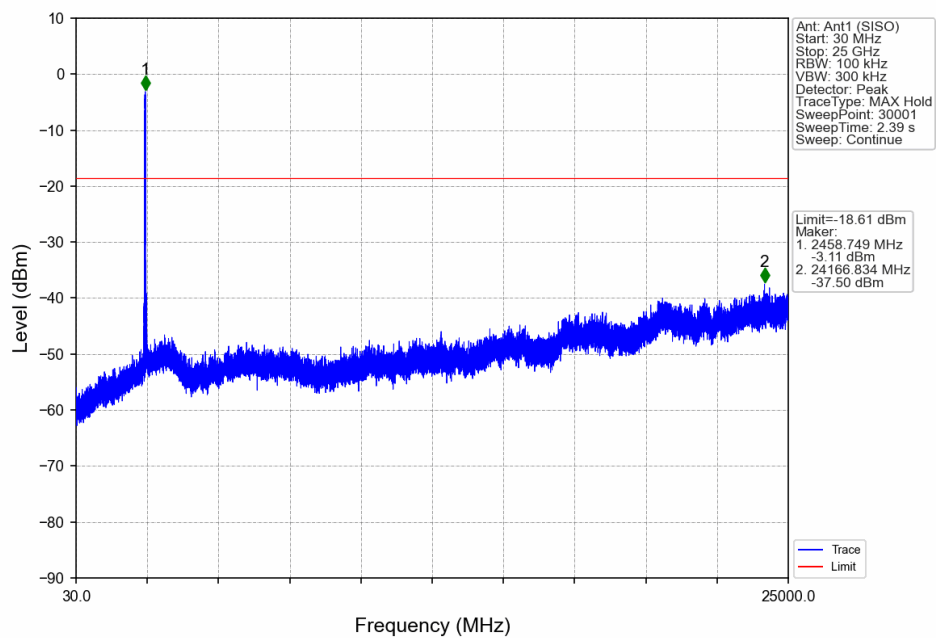
802.11n(HT40) MCH 2437MHz_Ant1 (SISO) NTNv



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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