

1. Bandwidth

1.1 Test Result

1.1.1 OBW

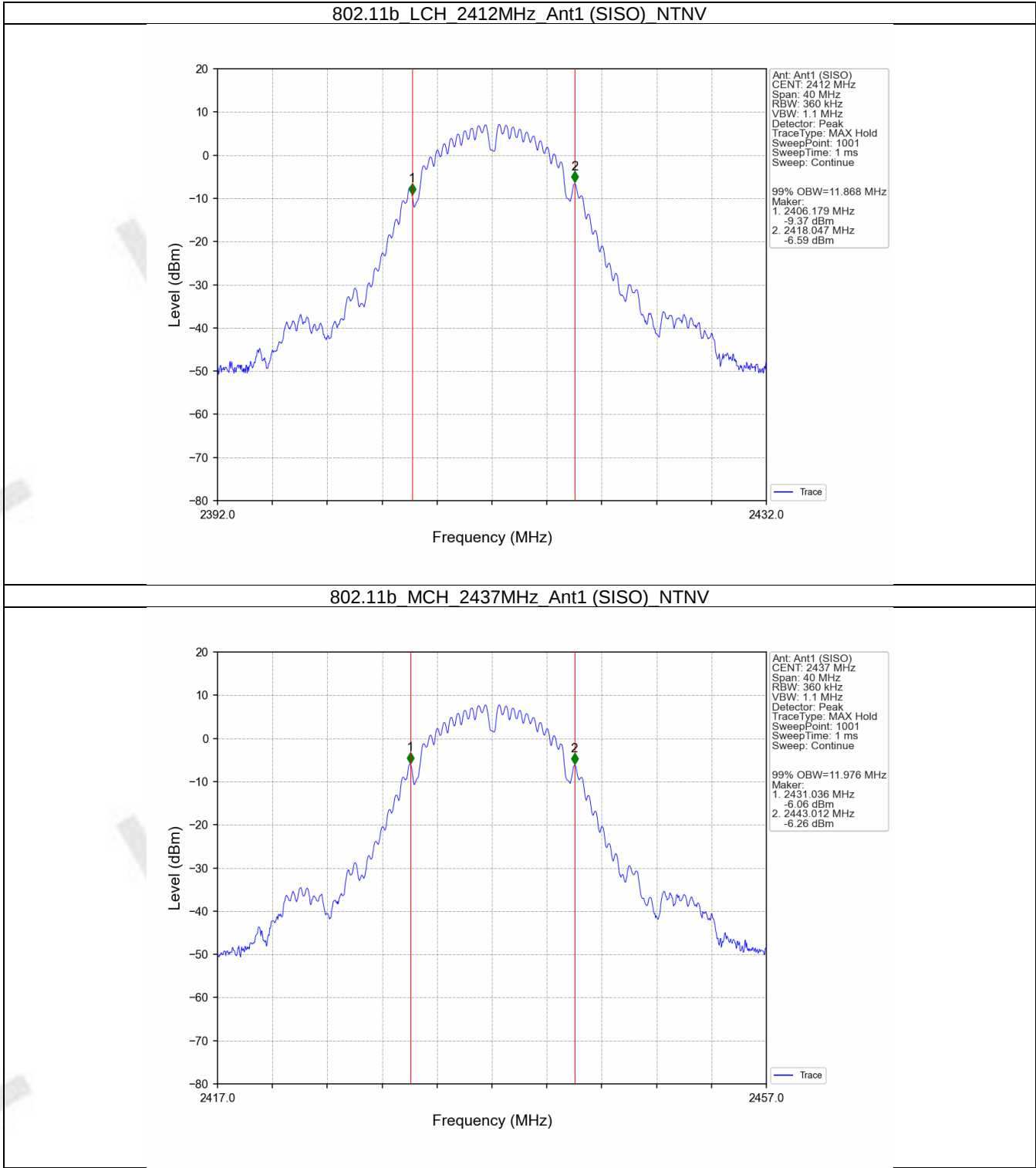
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.868	/	Pass
		2437	1	11.976	/	Pass
		2462	1	12.010	/	Pass
802.11g	SISO	2412	1	18.768	/	Pass
		2437	1	18.476	/	Pass
		2462	1	18.414	/	Pass
802.11n (HT20)	SISO	2412	1	19.668	/	Pass
		2437	1	19.508	/	Pass
		2462	1	19.359	/	Pass
802.11n (HT40)	SISO	2422	1	37.405	/	Pass
		2437	1	37.457	/	Pass
		2452	1	20.227	/	Pass

1.1.2 6dB BW

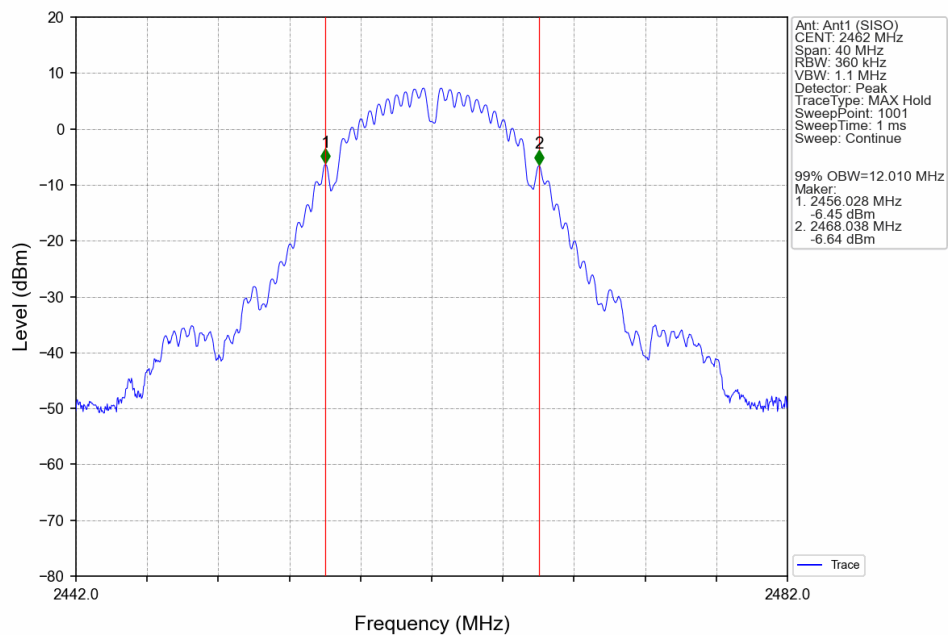
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.617	≥ 0.5	Pass
		2437	1	8.098	≥ 0.5	Pass
		2462	1	7.612	≥ 0.5	Pass
802.11g	SISO	2412	1	15.671	≥ 0.5	Pass
		2437	1	15.519	≥ 0.5	Pass
		2462	1	15.479	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.509	≥ 0.5	Pass
		2437	1	15.492	≥ 0.5	Pass
		2462	1	15.483	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.163	≥ 0.5	Pass
		2437	1	35.172	≥ 0.5	Pass
		2452	1	16.676	≥ 0.5	Pass

1.2 Test Graph

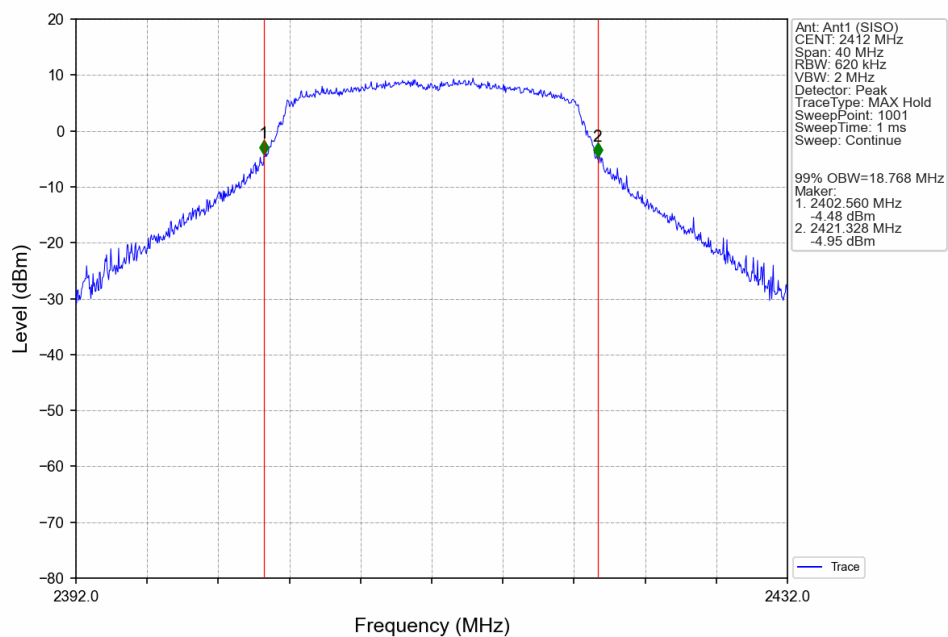
1.2.1 OBW



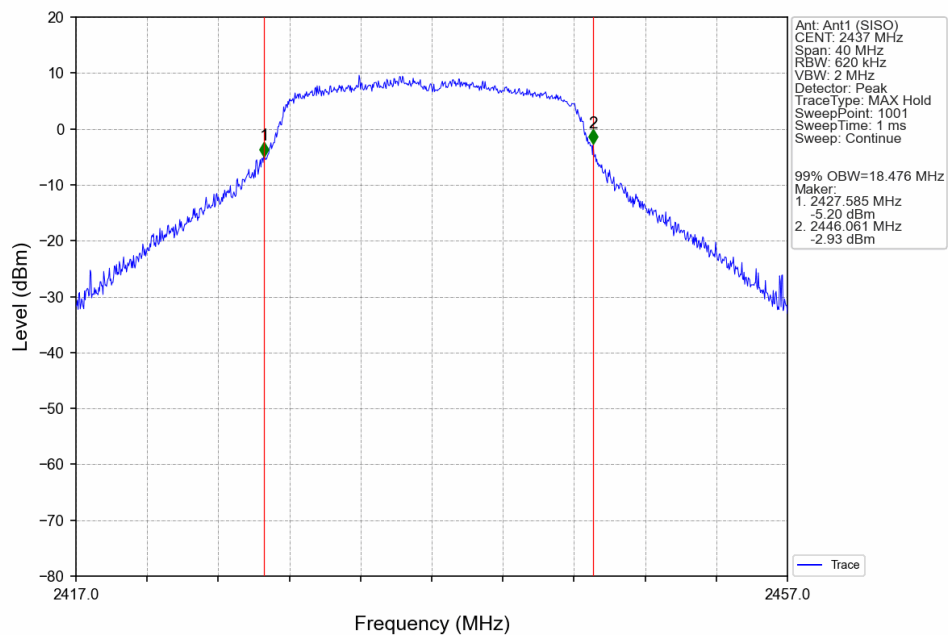
802.11b HCH 2462MHz Ant1 (SISO) NTN



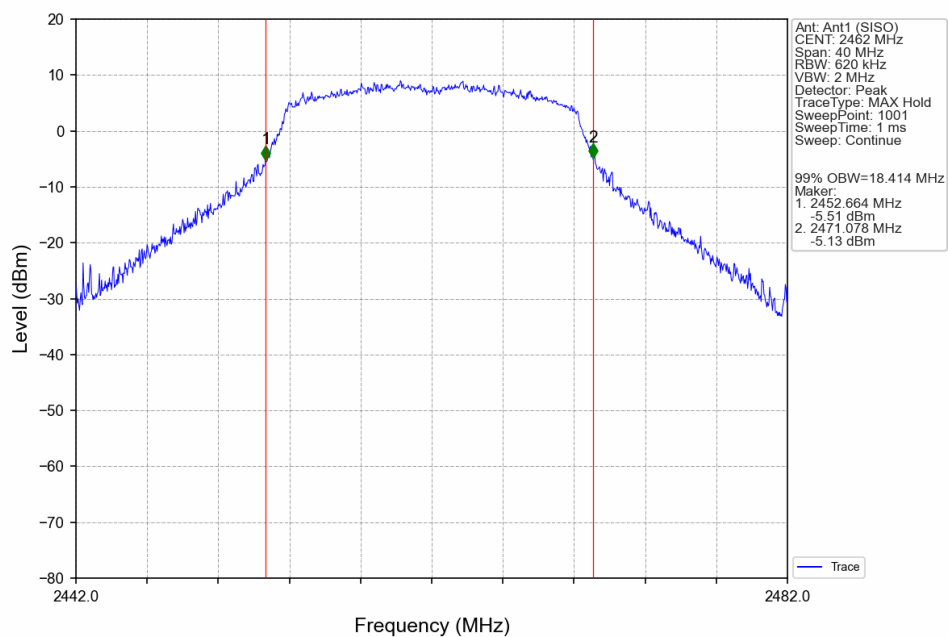
802.11g LCH 2412MHz Ant1 (SISO) NTN



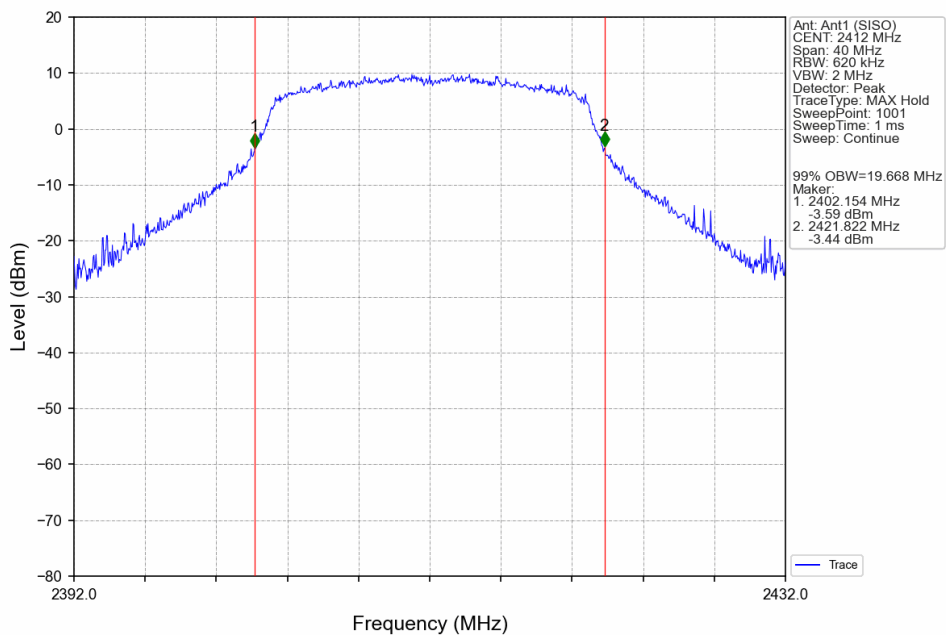
802.11g MCH 2437MHz Ant1 (SISO) NTV



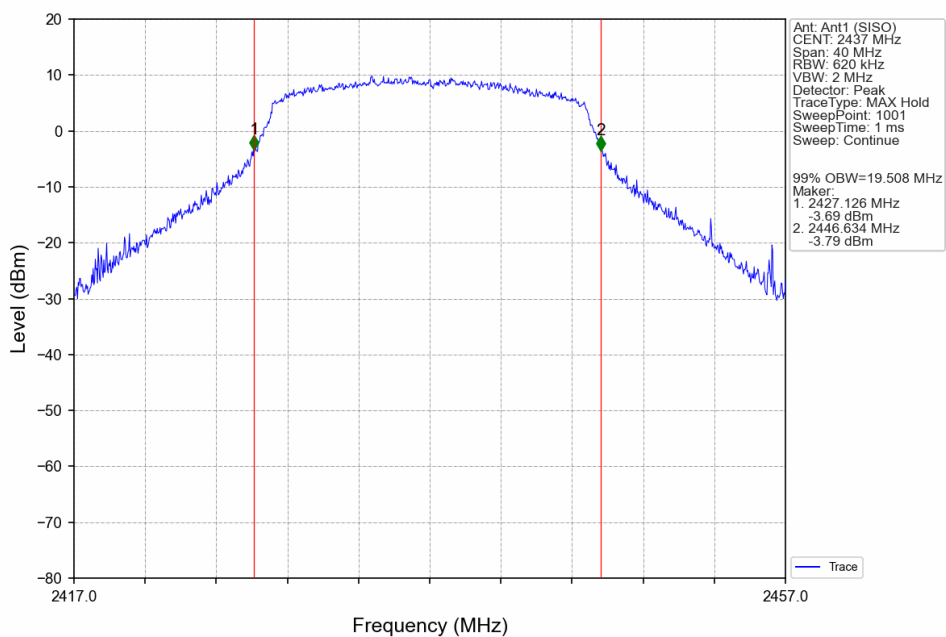
802.11g HCH 2462MHz Ant1 (SISO) NTV



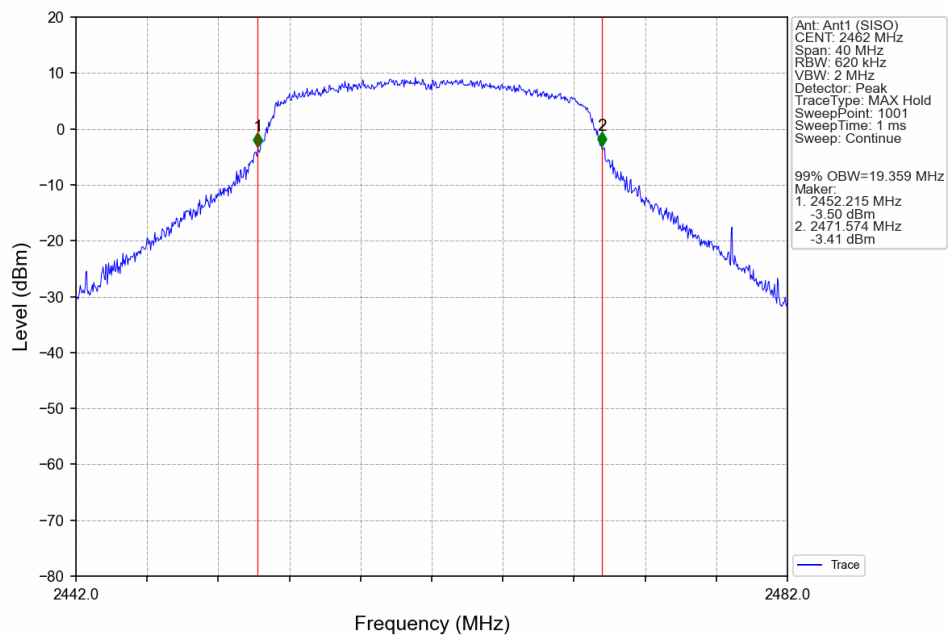
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



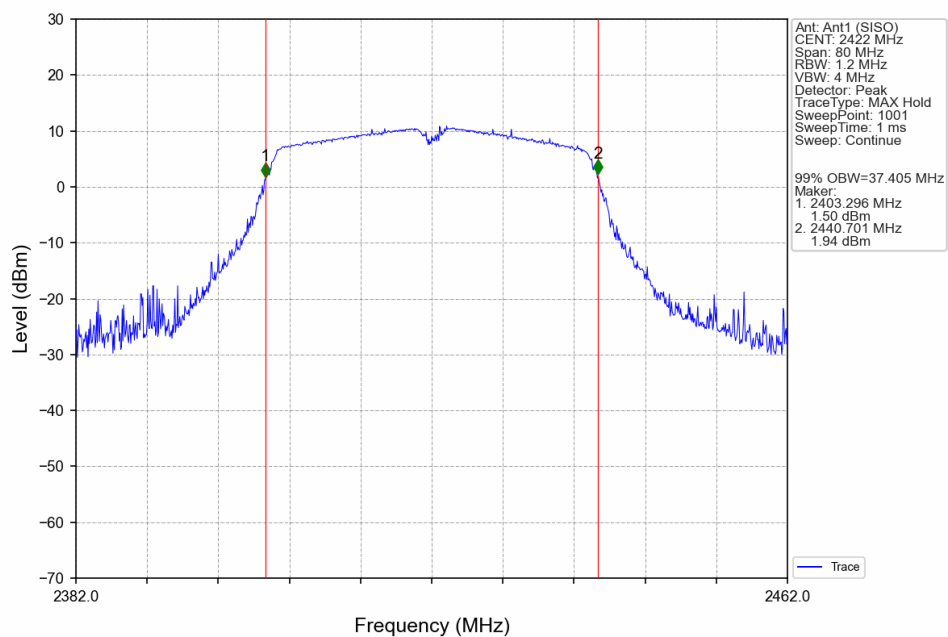
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



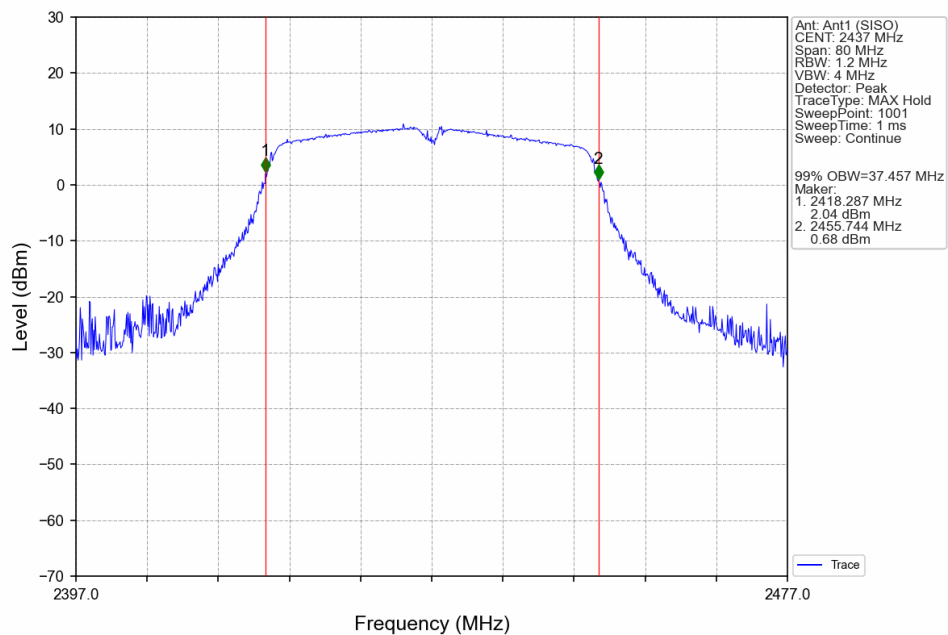
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



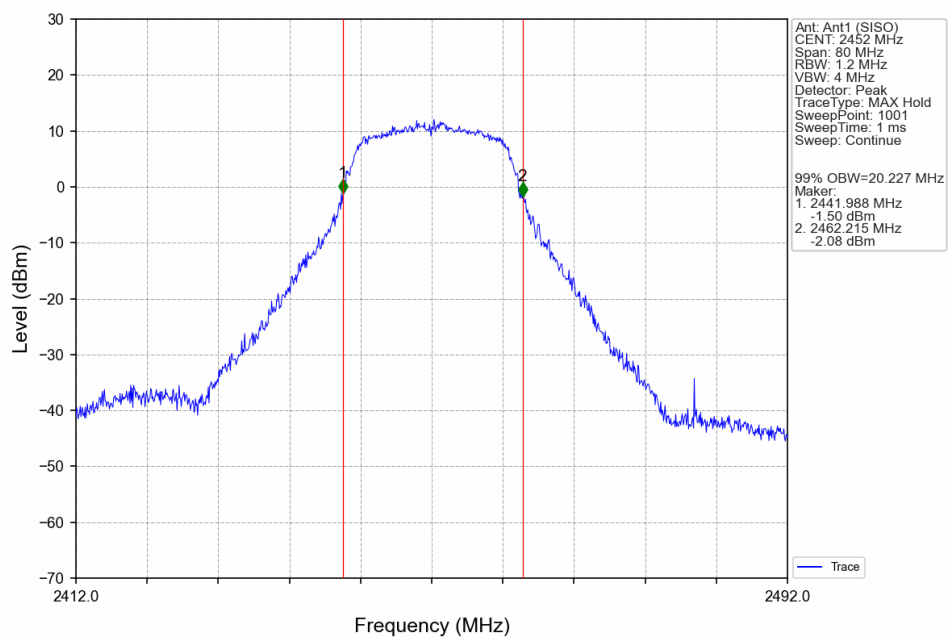
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



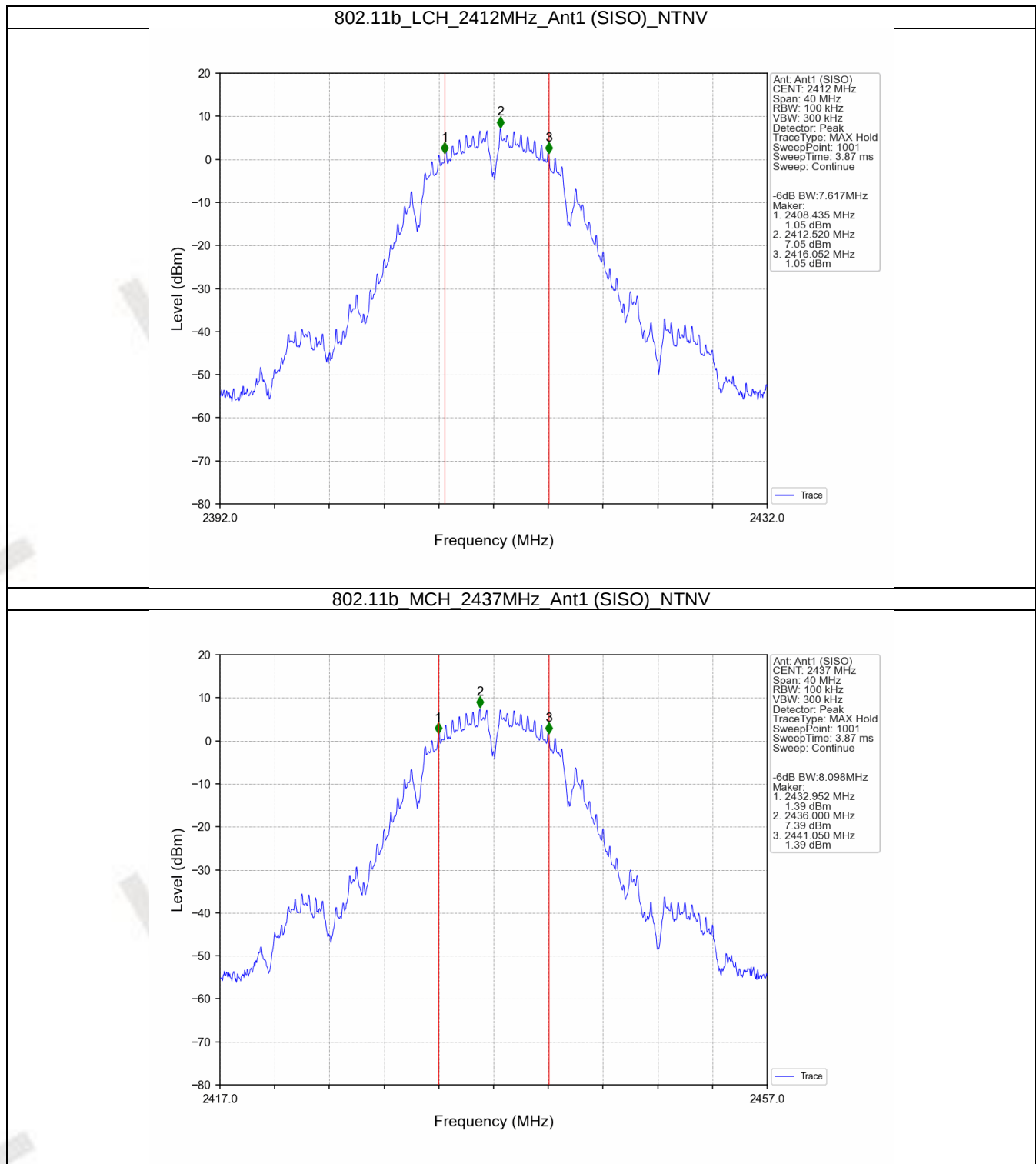
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



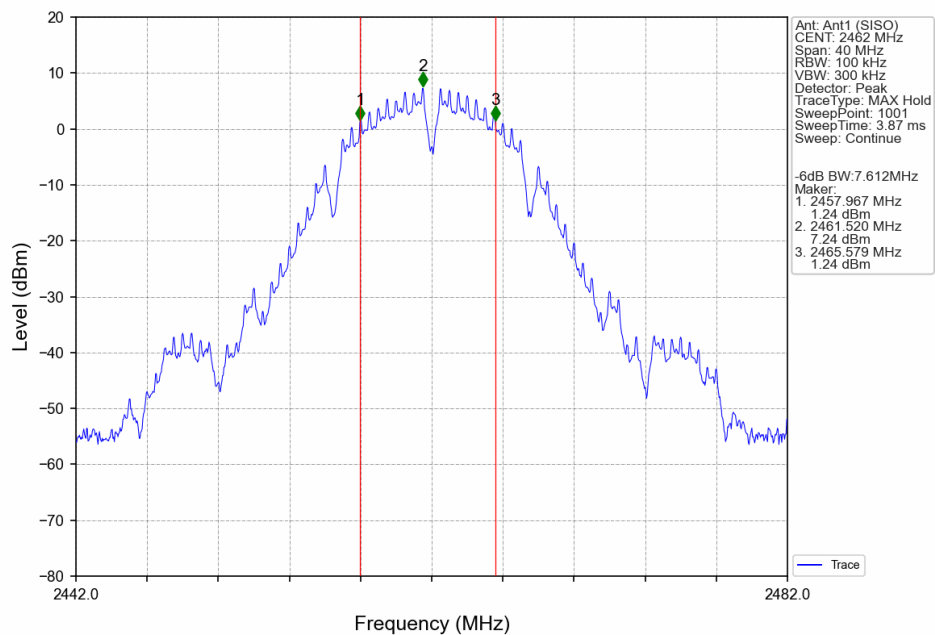
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



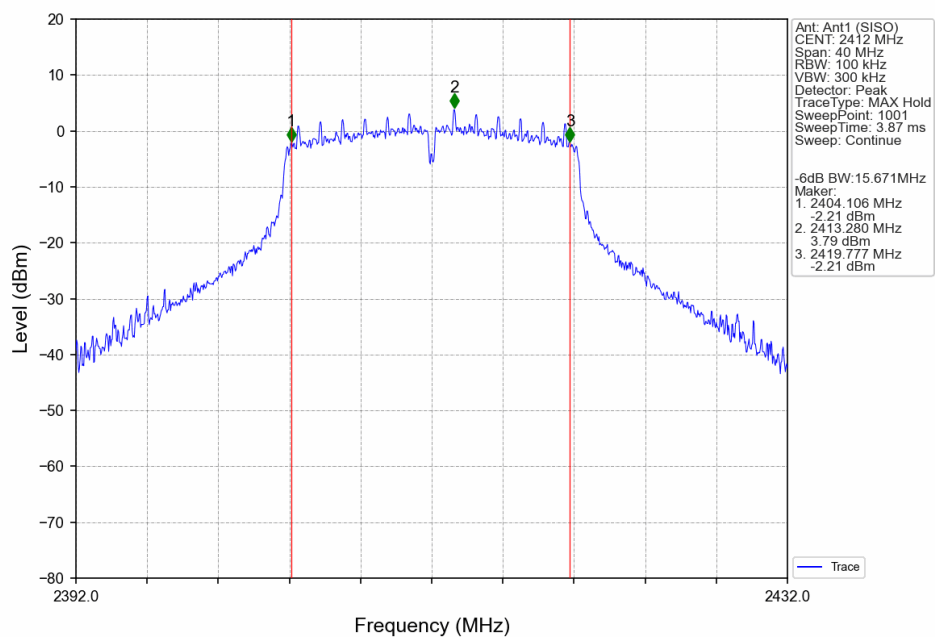
1.2.2 6dB BW



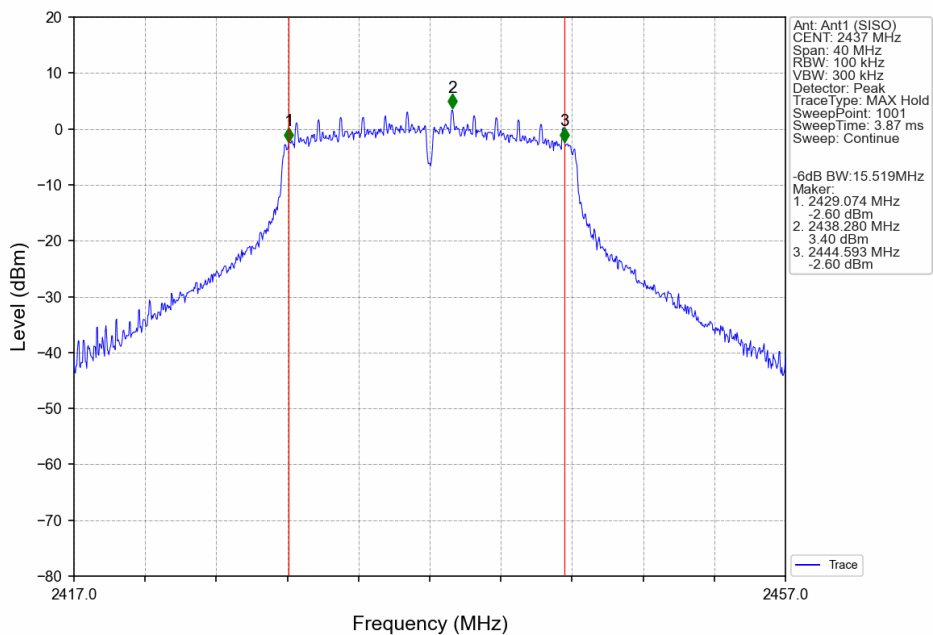
802.11b HCH 2462MHz Ant1 (SISO) NTN



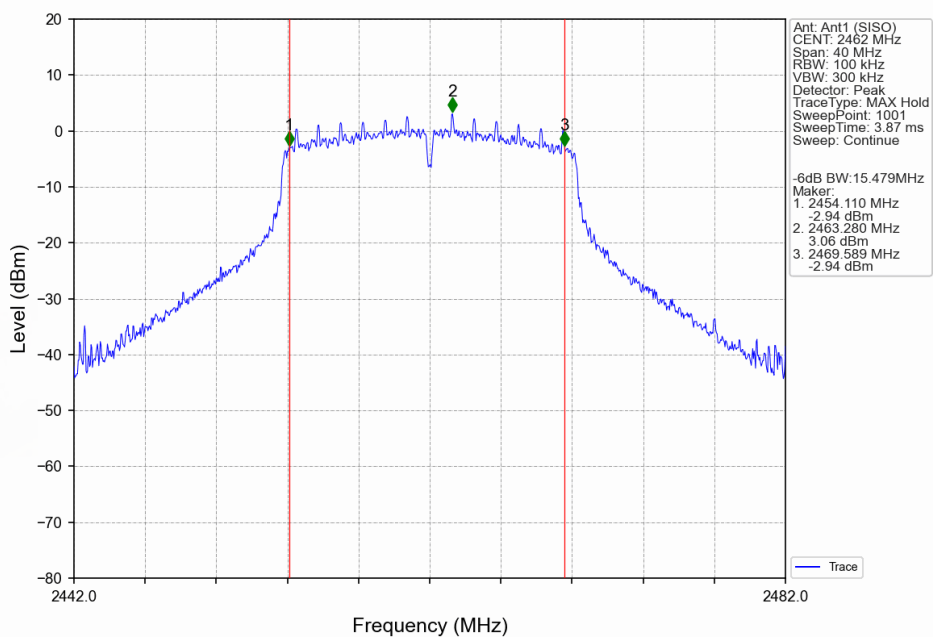
802.11g LCH 2412MHz Ant1 (SISO) NTN



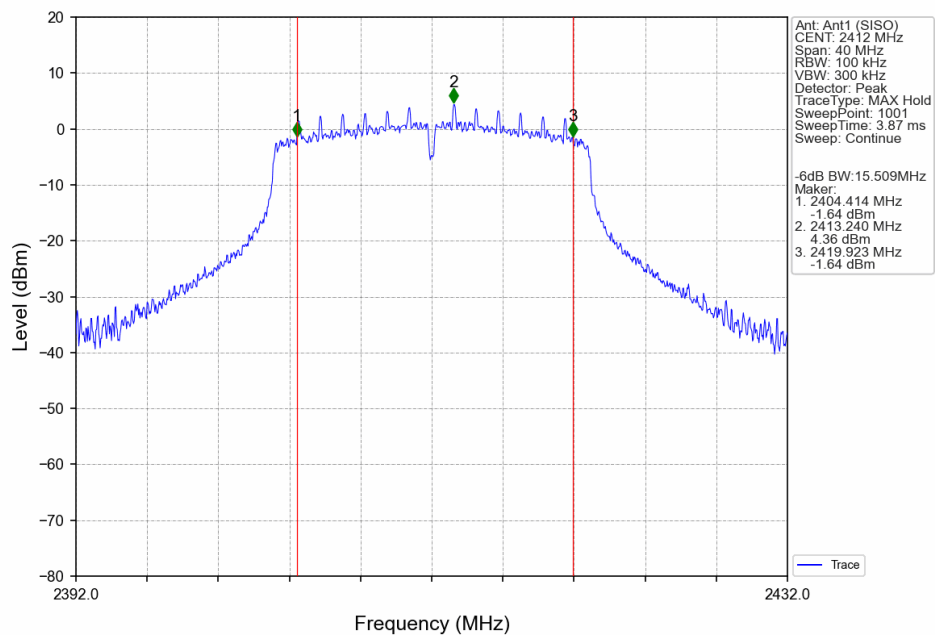
802.11g MCH 2437MHz Ant1 (SISO) NTNv



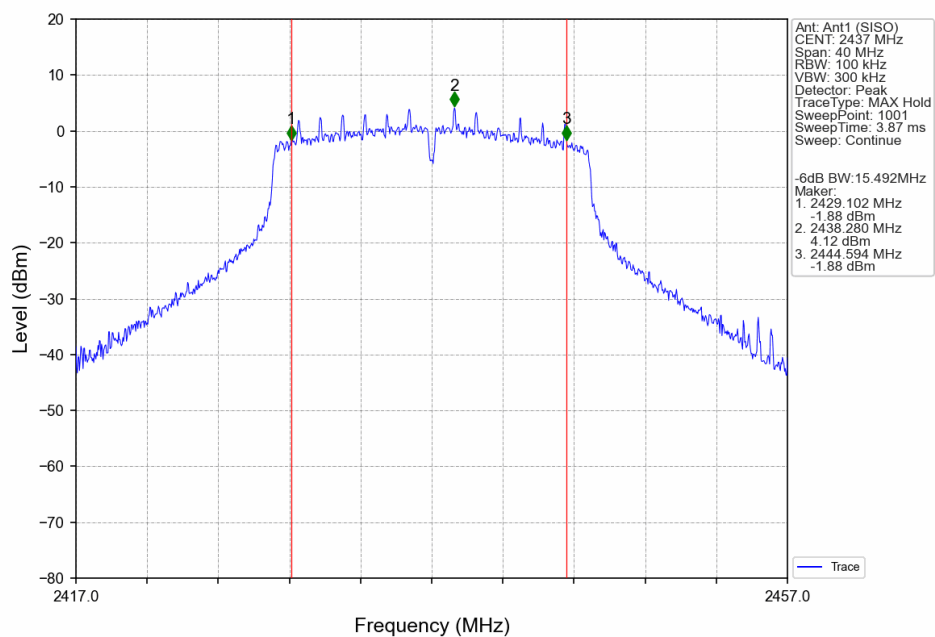
802.11g HCH 2462MHz Ant1 (SISO) NTNv



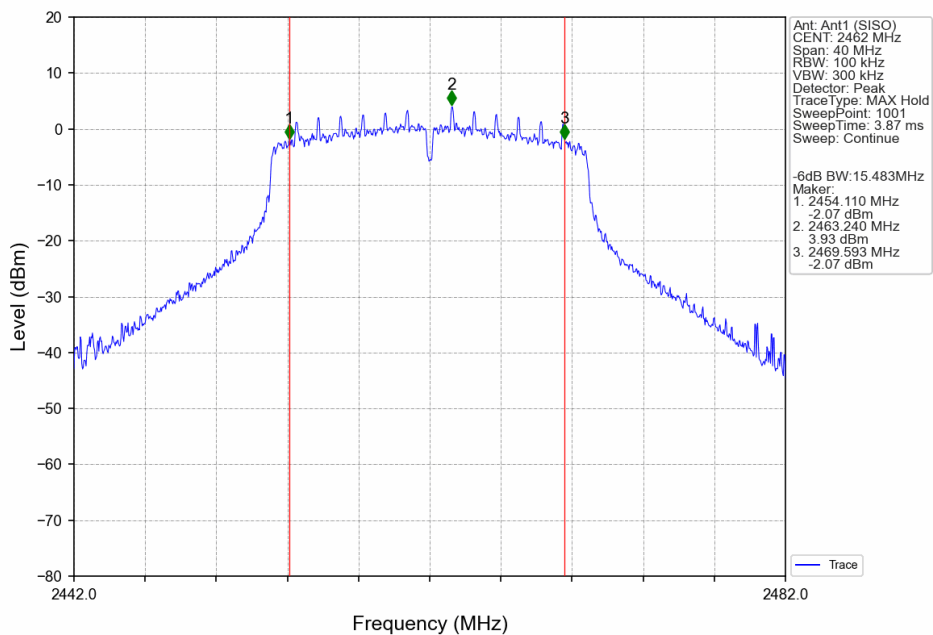
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



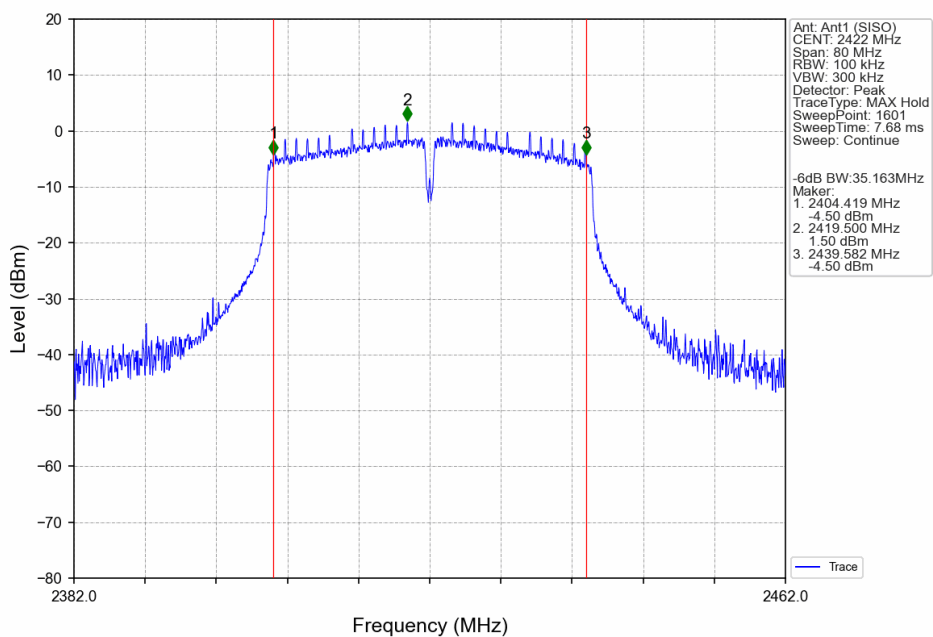
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



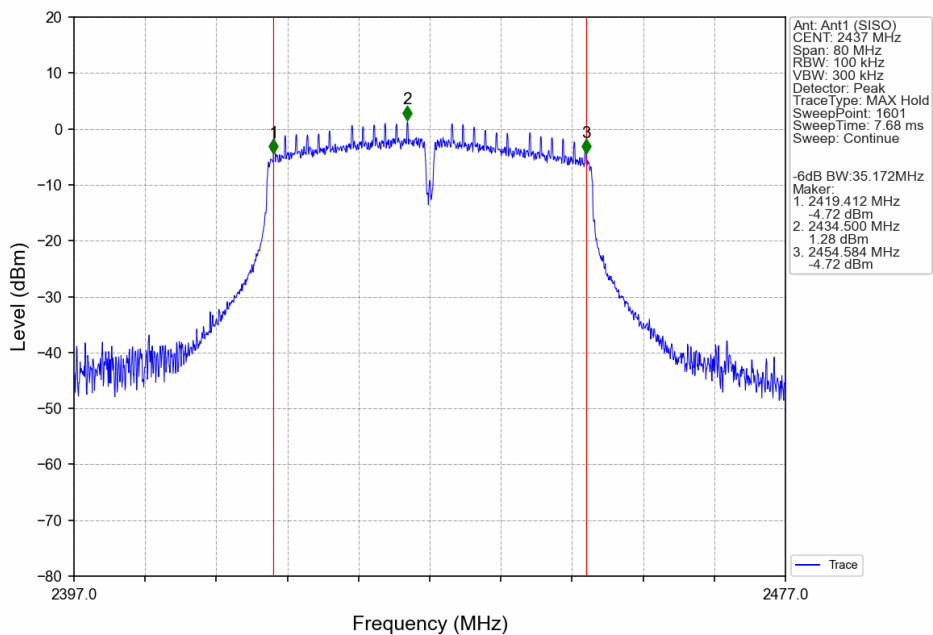
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



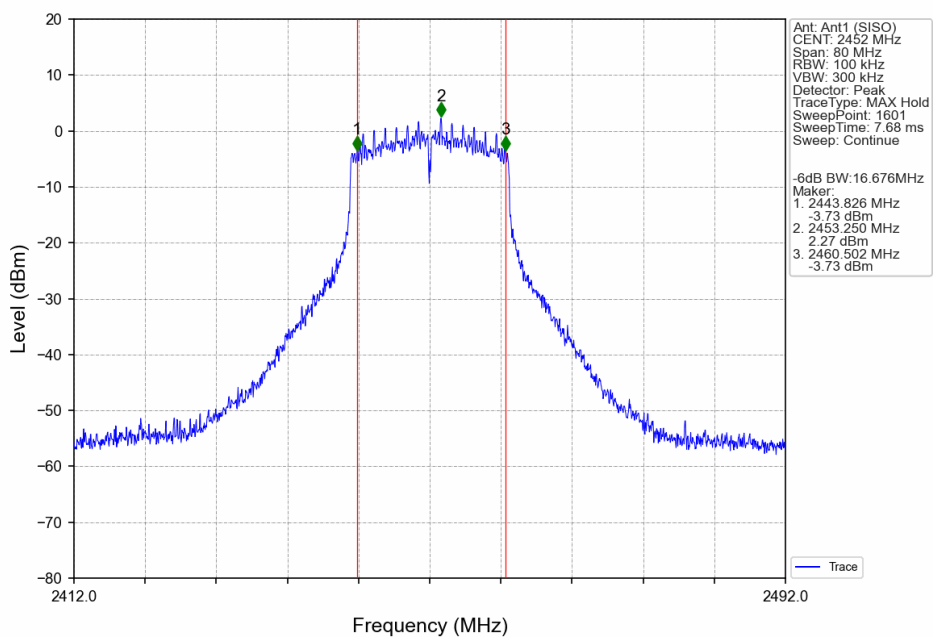
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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

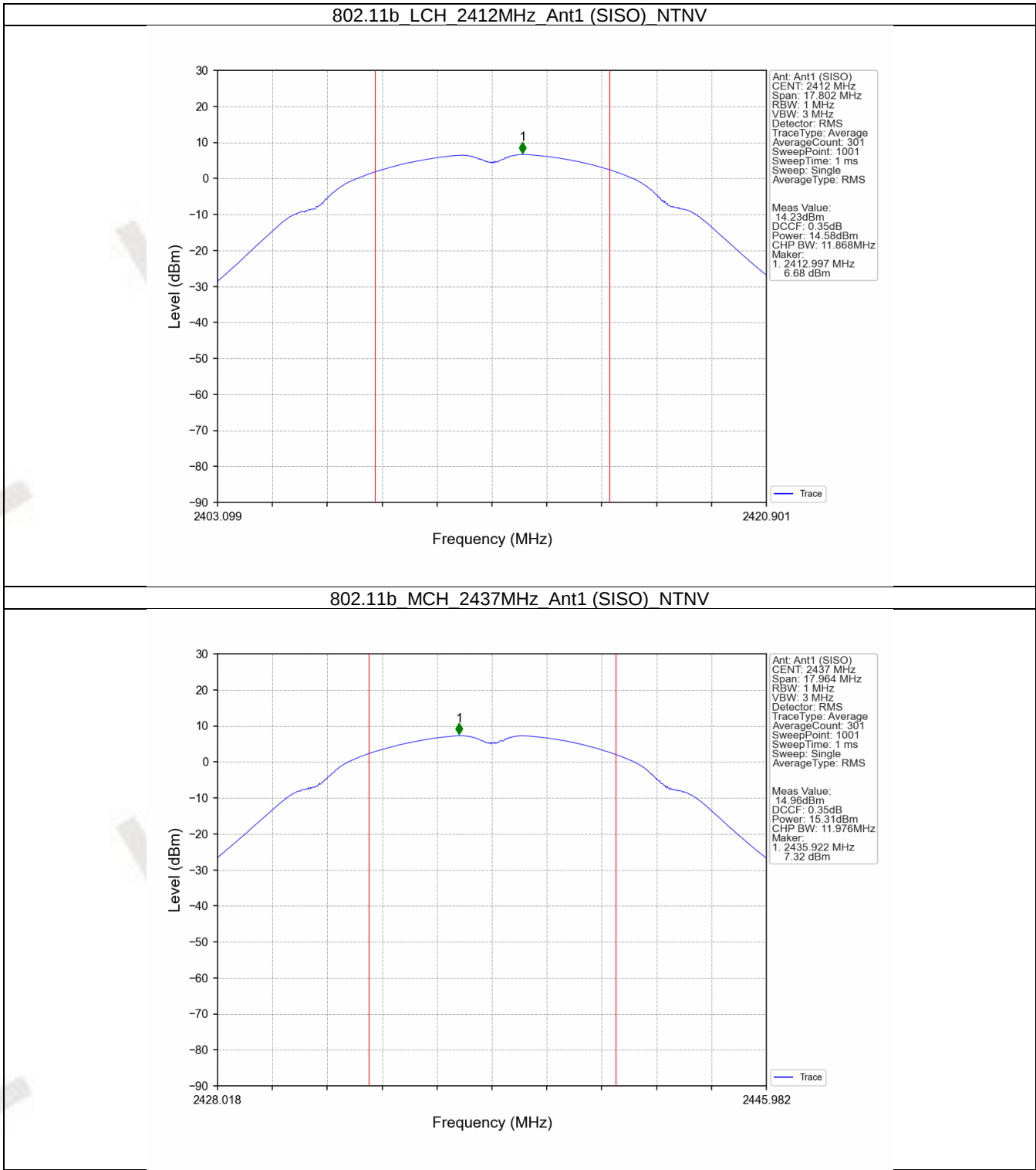
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.58	<=30	Pass
		2437	15.31	<=30	Pass
		2462	14.86	<=30	Pass
802.11g	SISO	2412	14.23	<=30	Pass
		2437	13.79	<=30	Pass
		2462	13.47	<=30	Pass
802.11n (HT20)	SISO	2412	14.21	<=30	Pass
		2437	14.54	<=30	Pass
		2462	14.24	<=30	Pass
802.11n (HT40)	SISO	2422	14.61	<=30	Pass
		2437	14.45	<=30	Pass
		2452	12.68	<=30	Pass

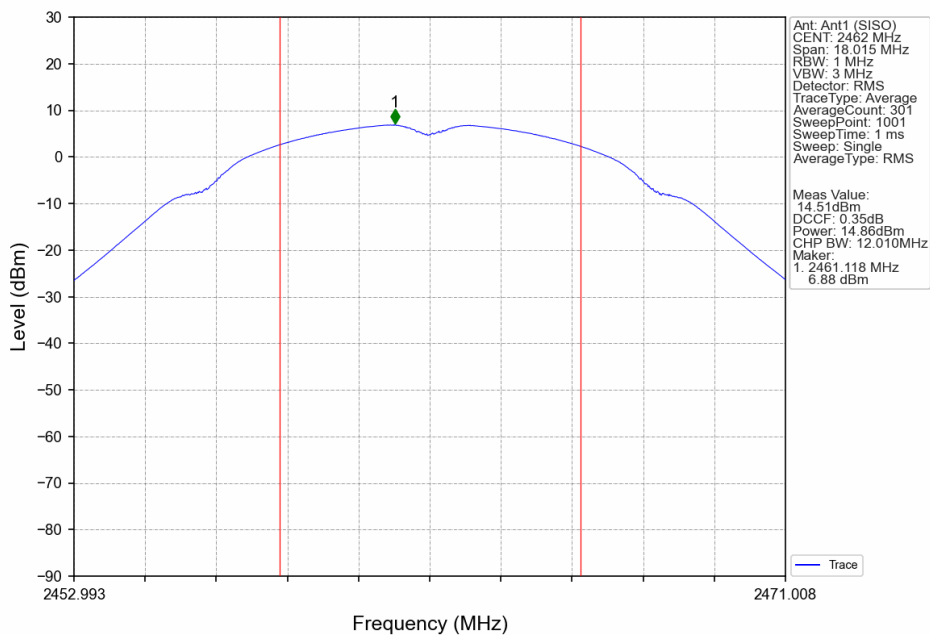
Note1: Antenna Gain: Ant1: 3.02dBi;

2.2 Test Graph

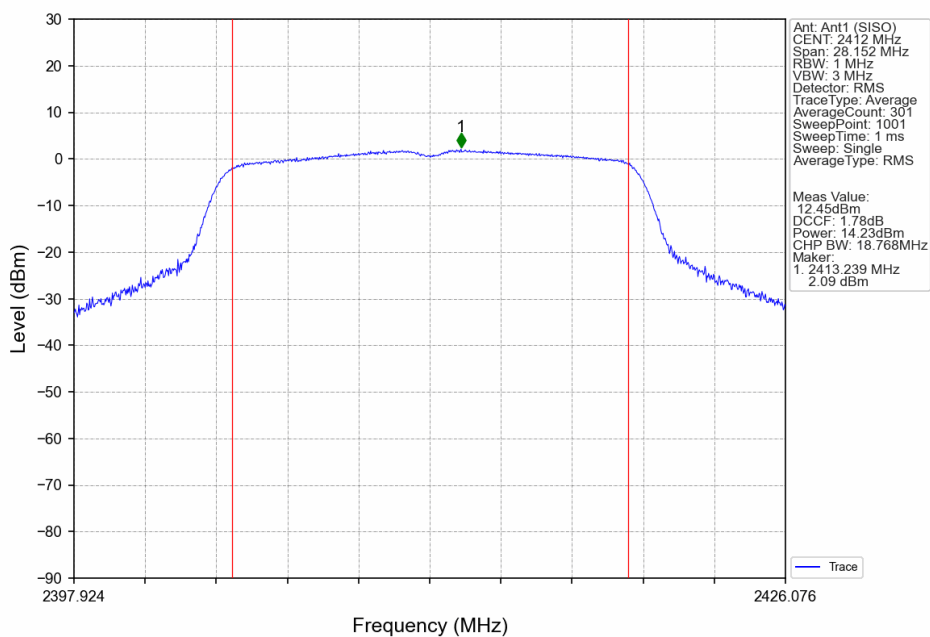
2.2.1 Power



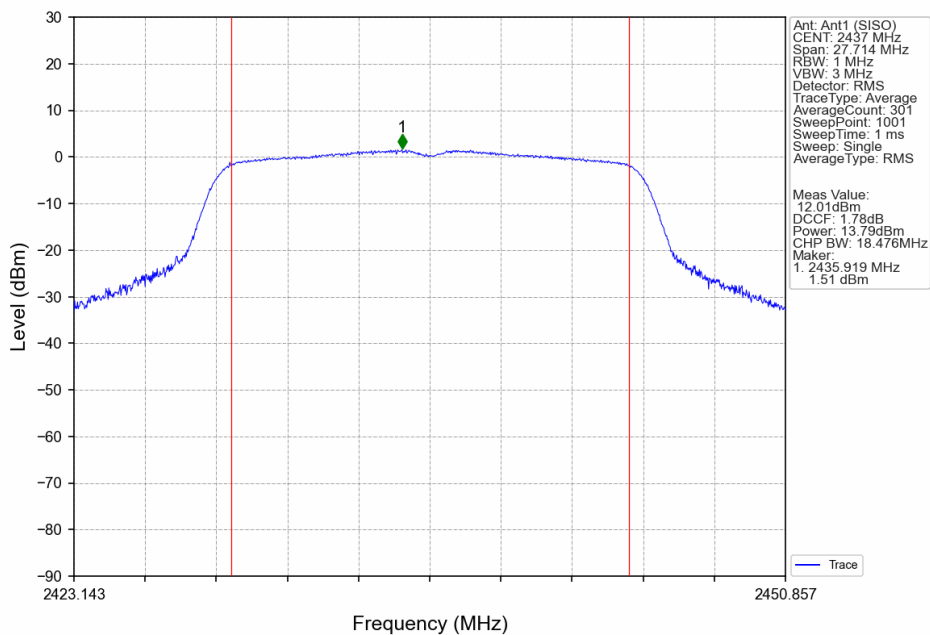
802.11b HCH 2462MHz Ant1 (SISO) NTN



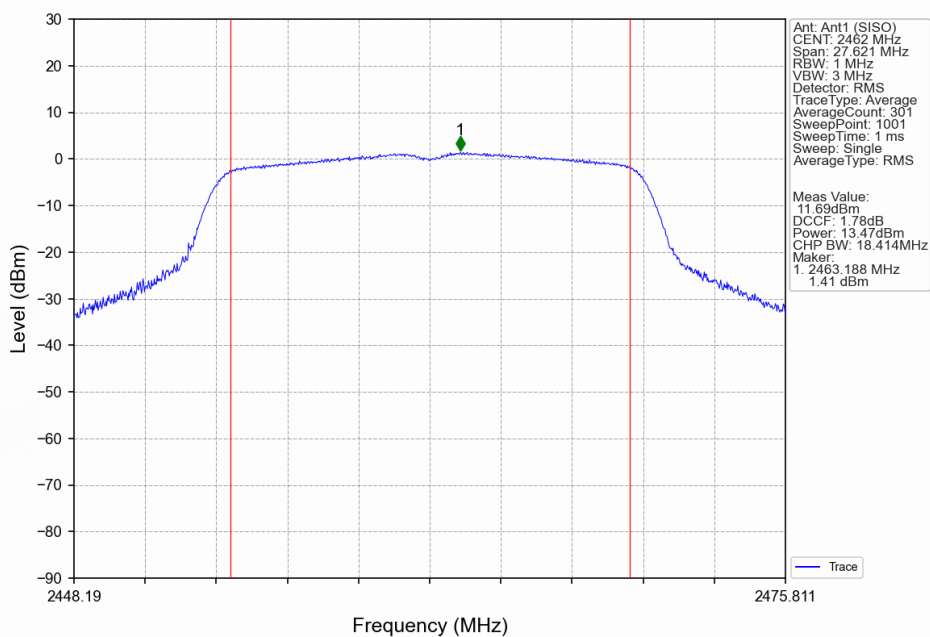
802.11g LCH 2412MHz Ant1 (SISO) NTN



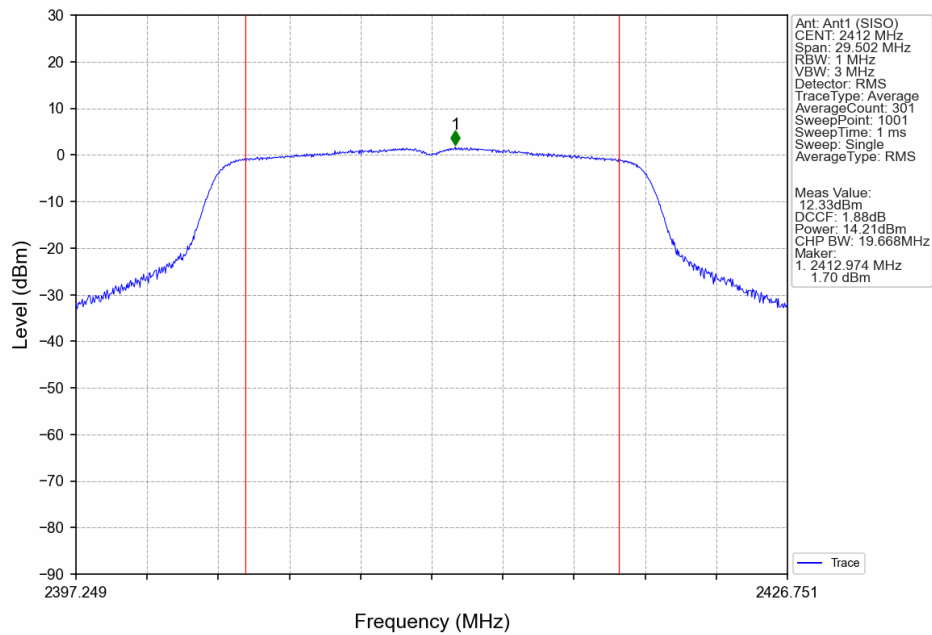
802.11g MCH 2437MHz Ant1 (SISO) NTN



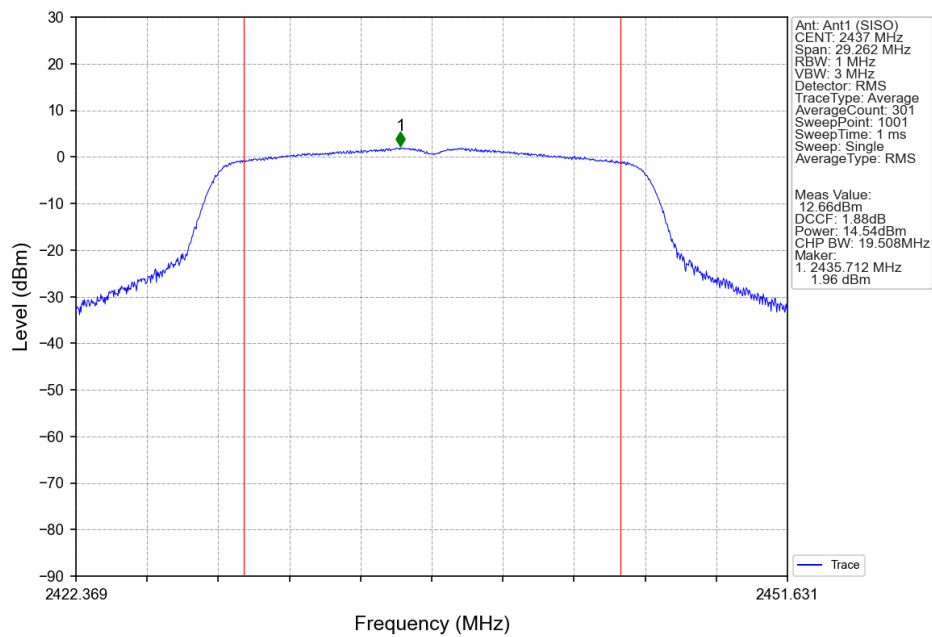
802.11g HCH 2462MHz Ant1 (SISO) NTN



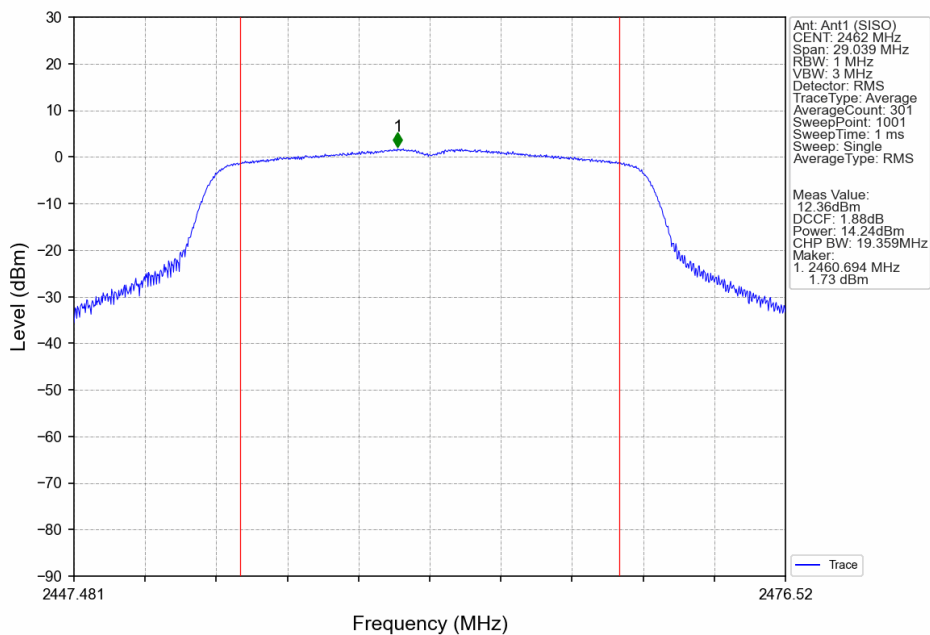
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



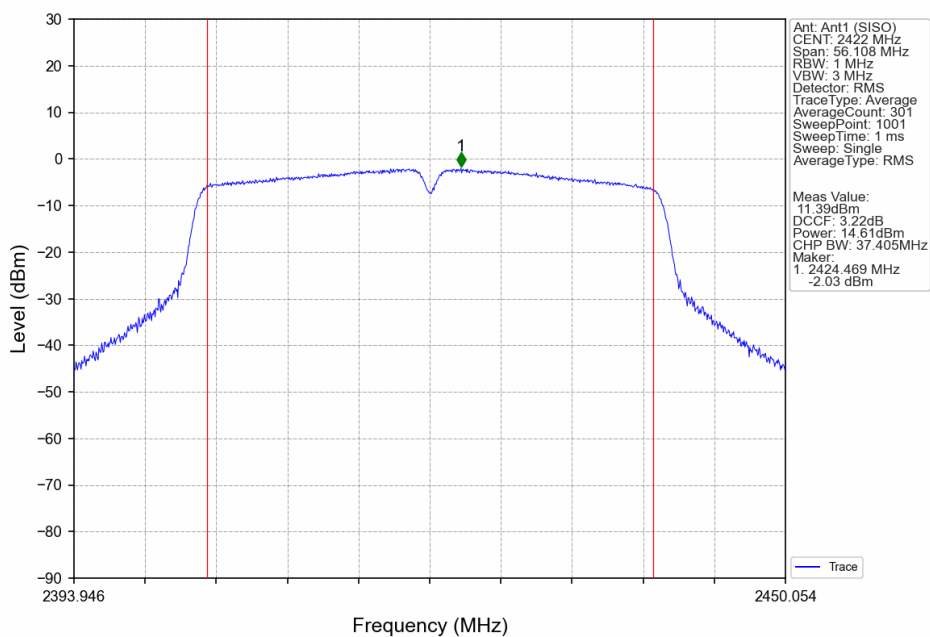
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



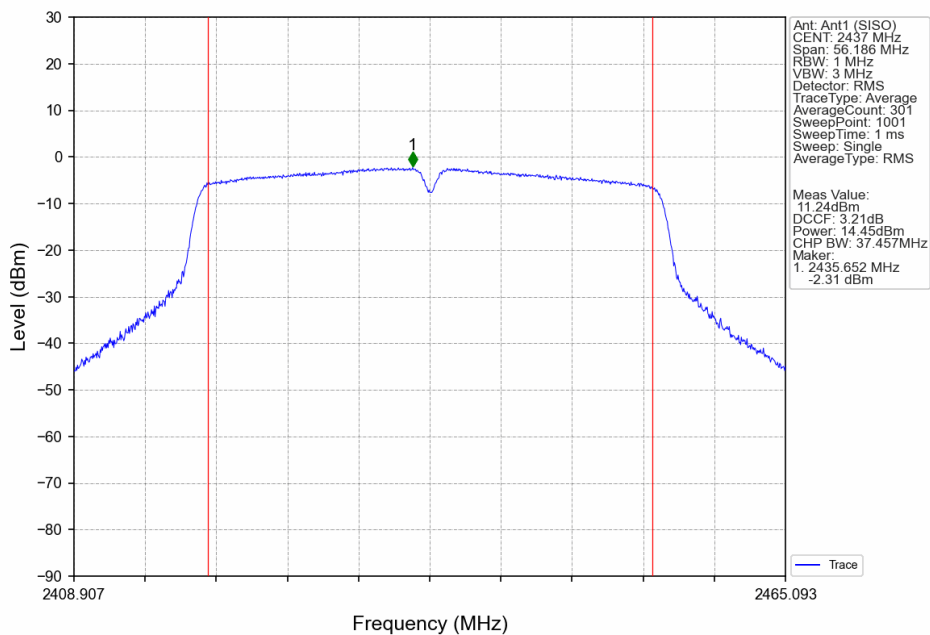
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



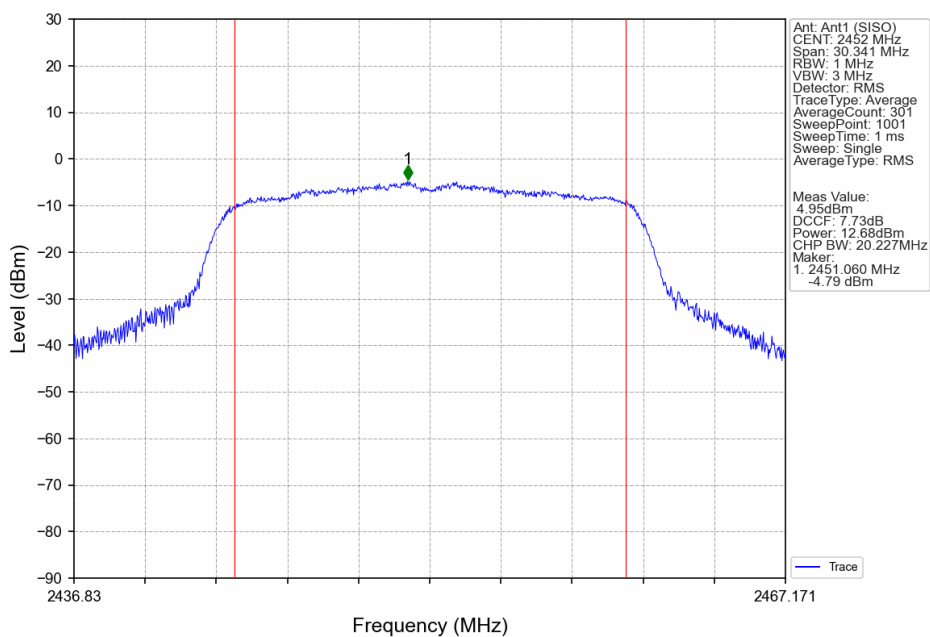
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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



3. Maximum Power Spectral Density

3.1 Test Result

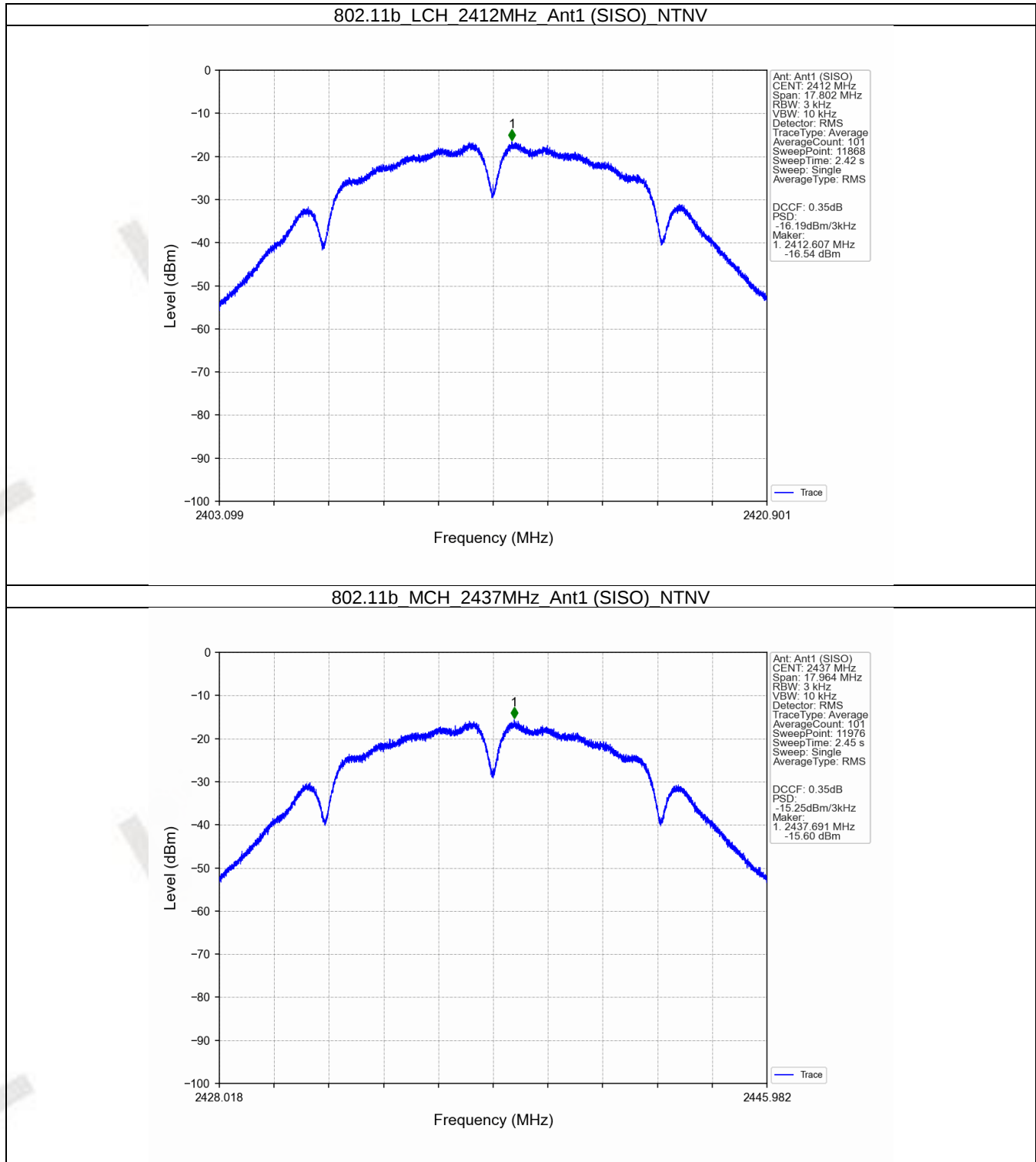
3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-16.19	<=8	Pass
		2437	-15.25	<=8	Pass
		2462	-15.85	<=8	Pass
802.11g	SISO	2412	-19.41	<=8	Pass
		2437	-19.08	<=8	Pass
		2462	-19.65	<=8	Pass
802.11n (HT20)	SISO	2412	-18.41	<=8	Pass
		2437	-17.94	<=8	Pass
		2462	-18.88	<=8	Pass
802.11n (HT40)	SISO	2422	-17.57	<=8	Pass
		2437	-18.29	<=8	Pass
		2452	-17.06	<=8	Pass

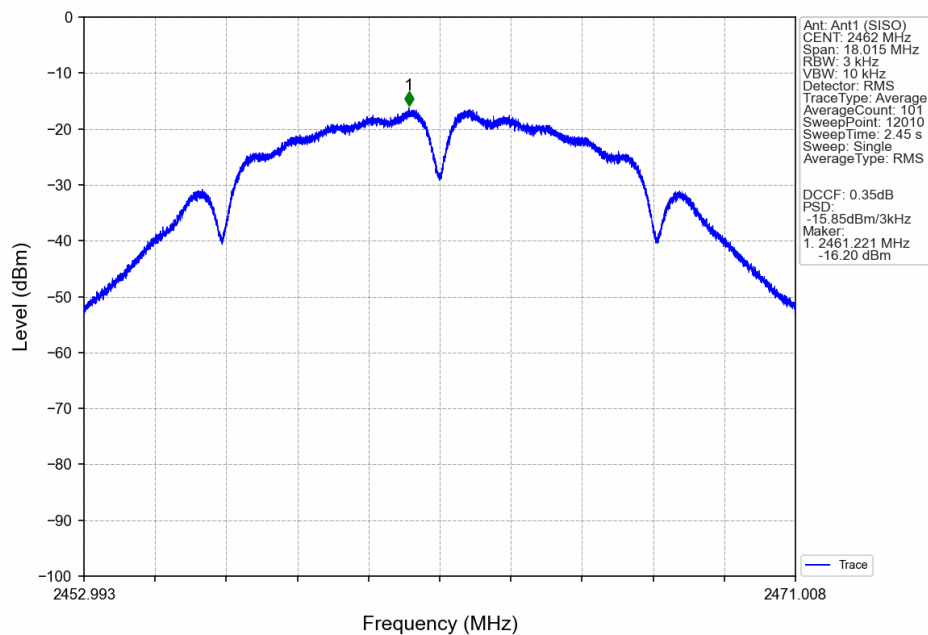
Note1: Antenna Gain: Ant1: 3.02dBi;

3.2 Test Graph

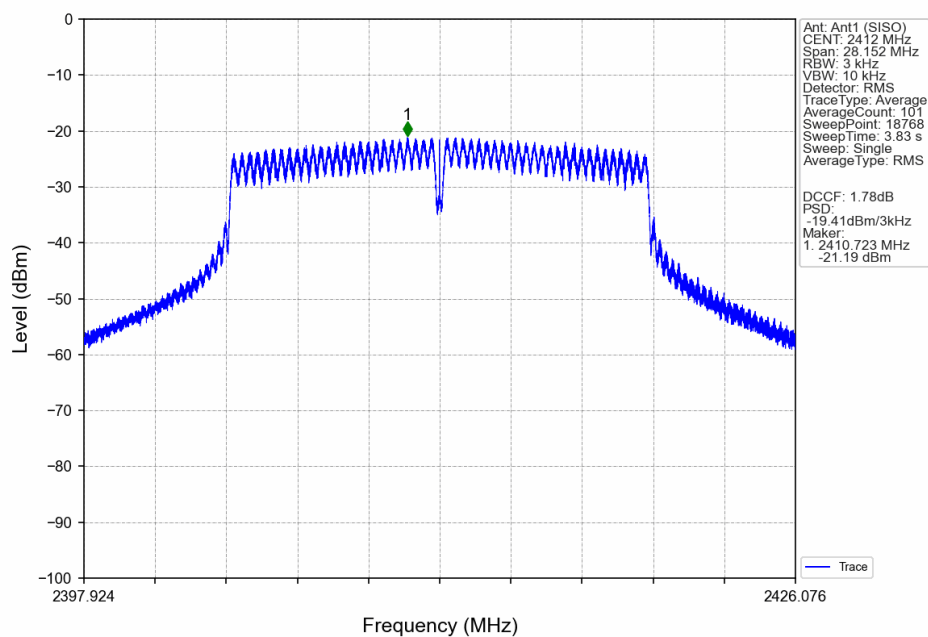
3.2.1 PSD



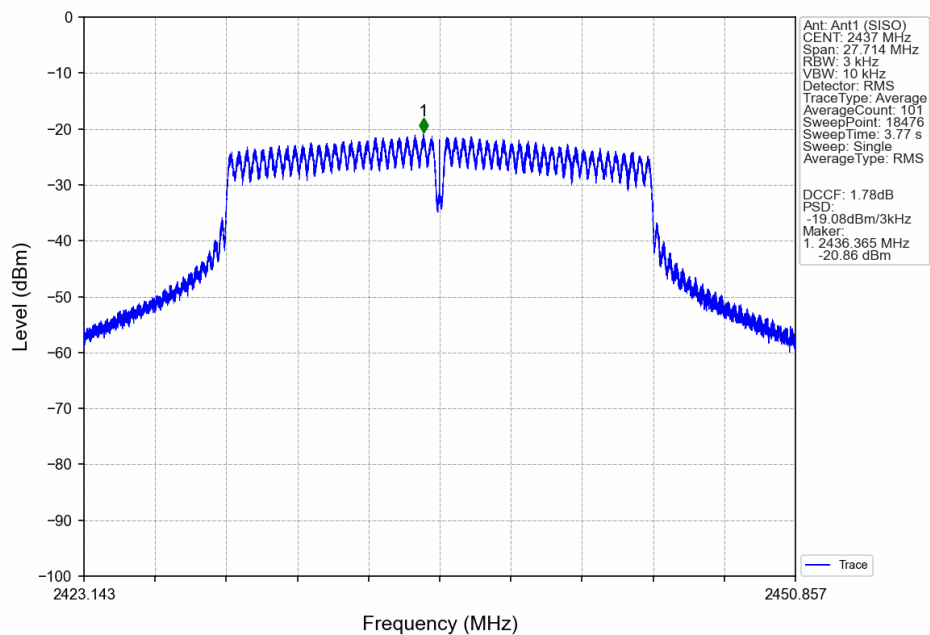
802.11b HCH 2462MHz Ant1 (SISO) NTN



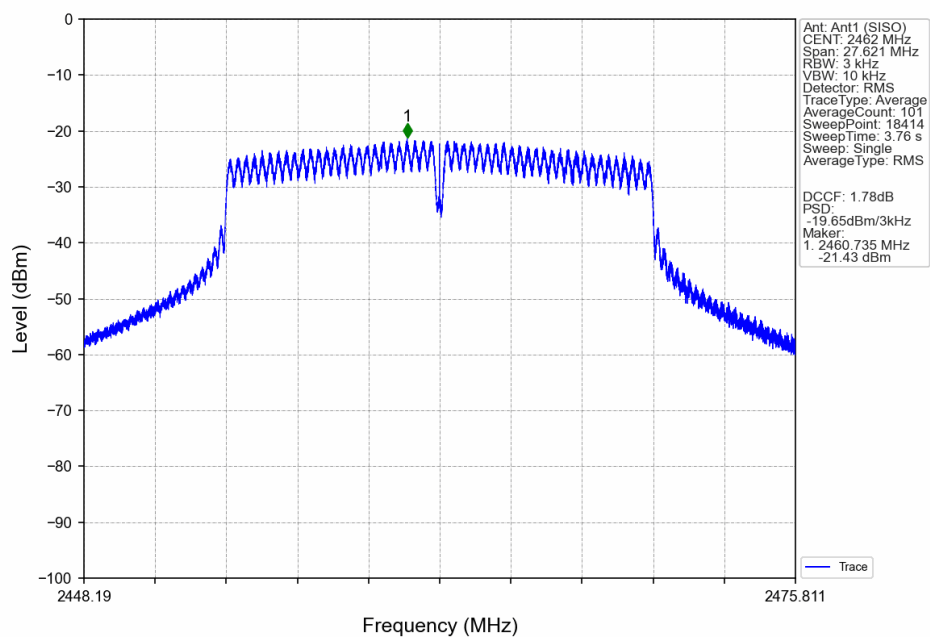
802.11g LCH 2412MHz Ant1 (SISO) NTN



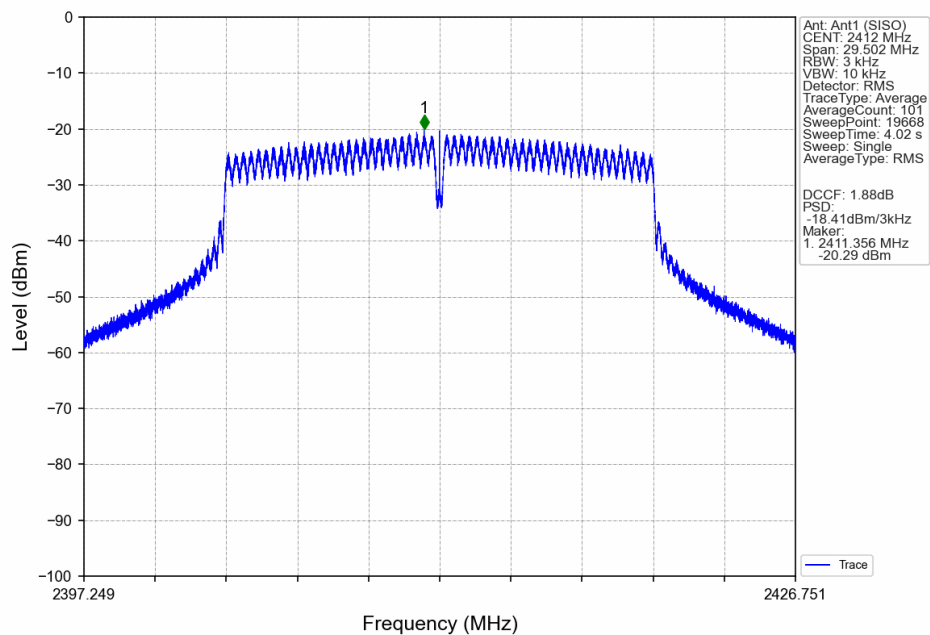
802.11g MCH 2437MHz Ant1 (SISO) NTNV



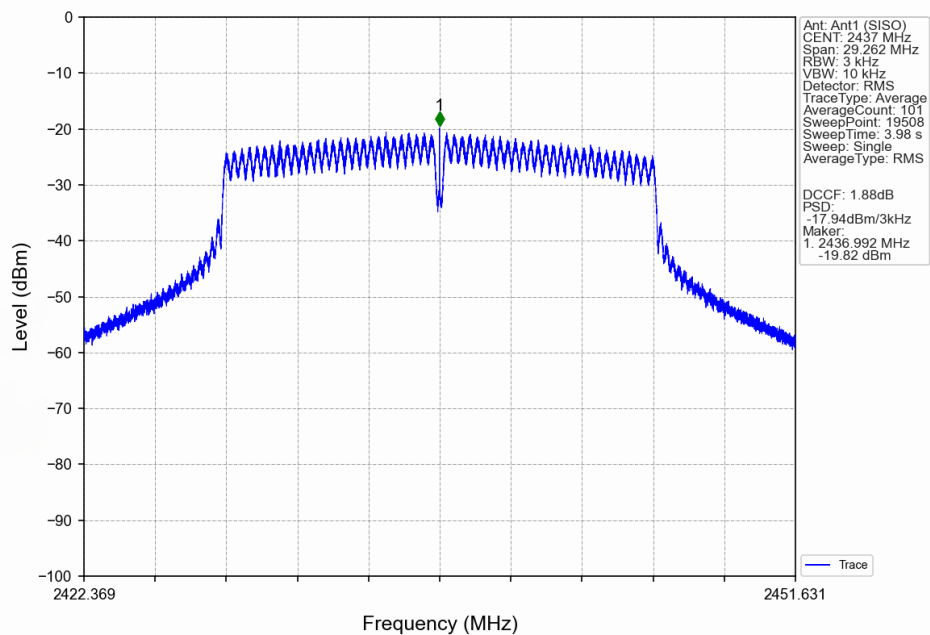
802.11g HCH 2462MHz Ant1 (SISO) NTNV



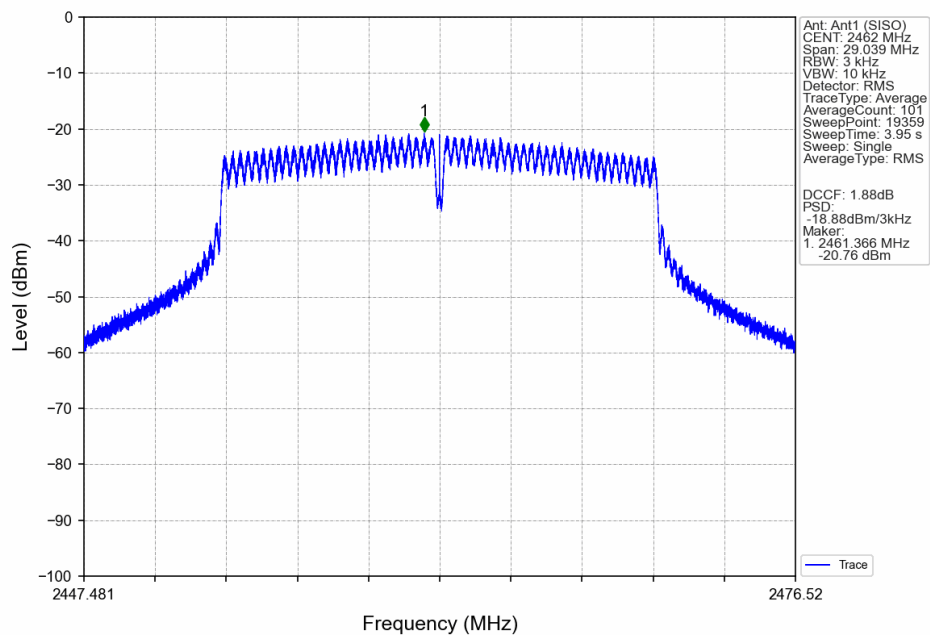
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



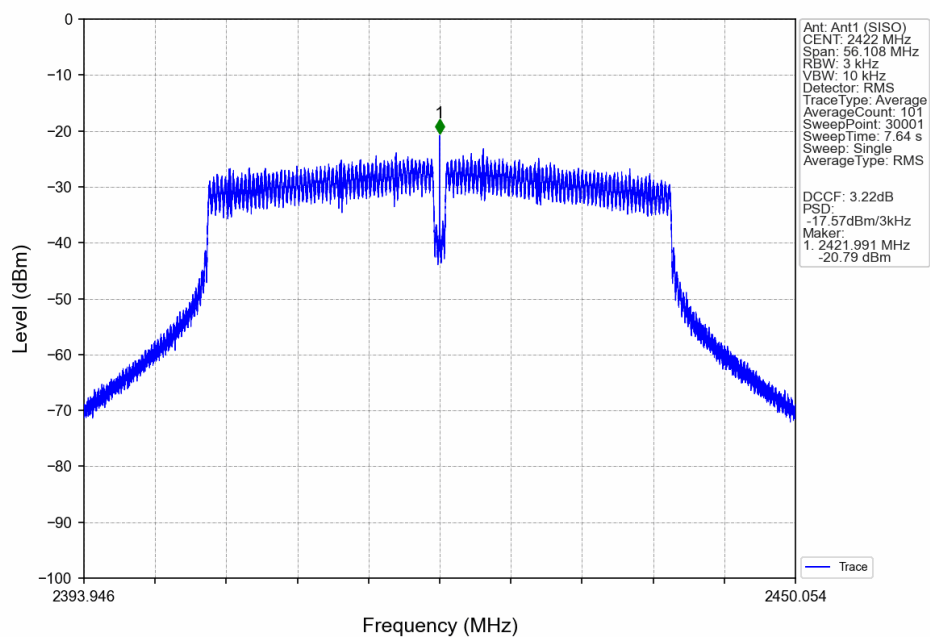
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



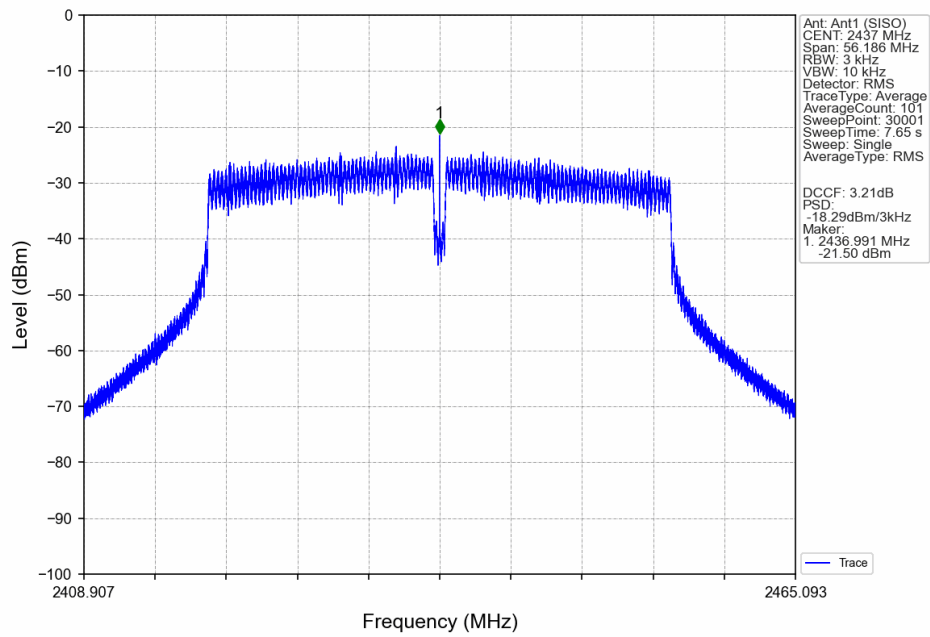
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



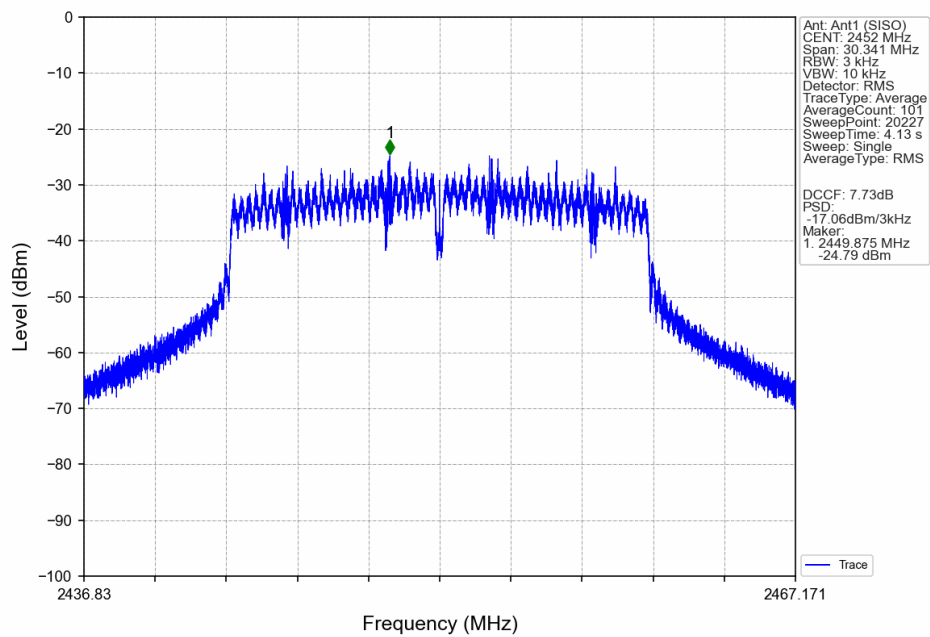
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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



4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Test Result

4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	7.07
		2437	1	7.71
		2462	1	7.01
802.11g	SISO	2412	1	3.31
		2437	1	3.26
		2462	1	2.54
802.11n (HT20)	SISO	2412	1	4.12
		2437	1	3.20
		2462	1	2.91
802.11n (HT40)	SISO	2422	1	1.47
		2437	1	1.26
		2452	1	1.78

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.

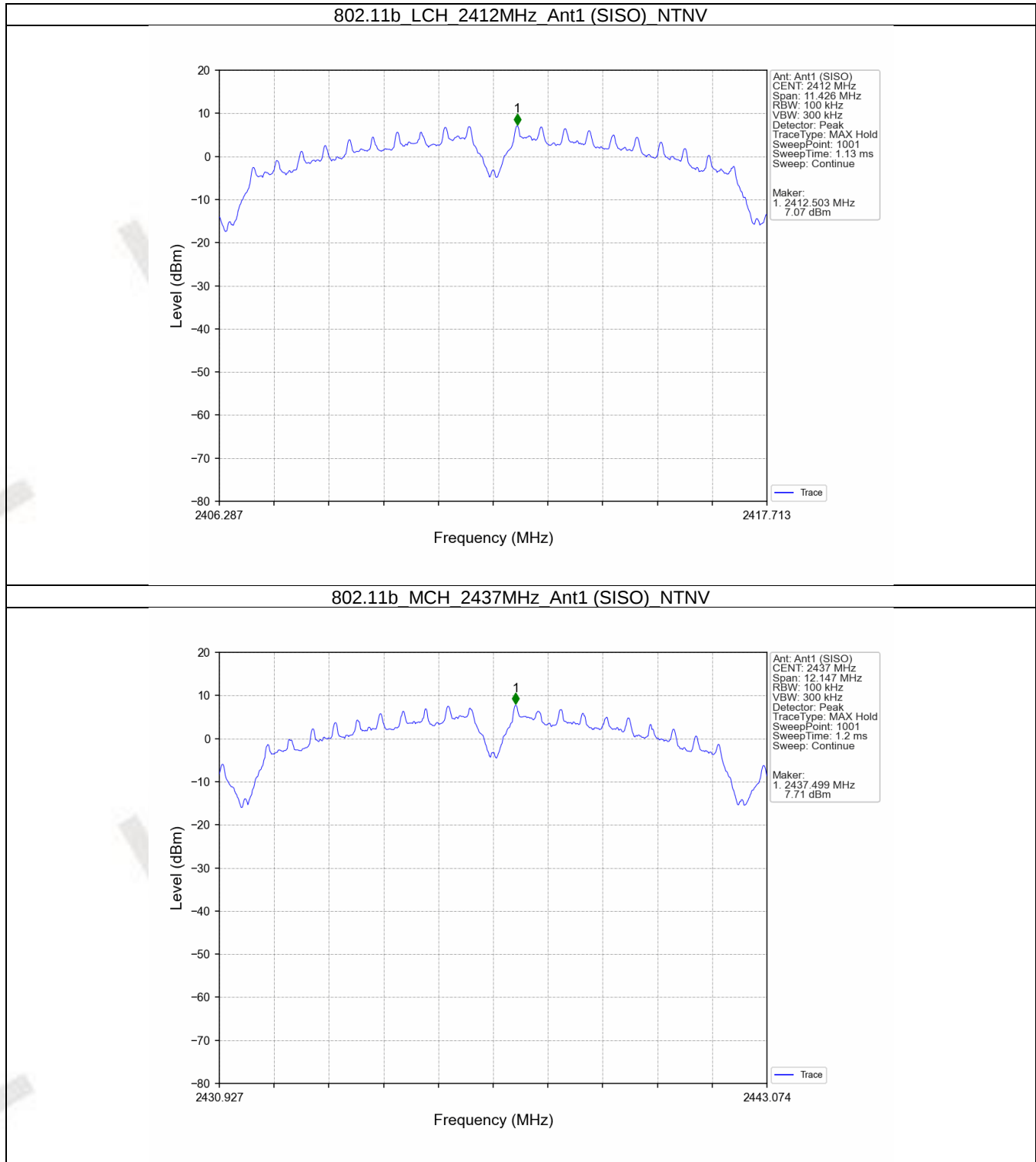
4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.71	-22.29	Pass
		2437	1	7.71	-22.29	Pass
		2462	1	7.71	-22.29	Pass
802.11g	SISO	2412	1	3.31	-26.69	Pass
		2437	1	3.31	-26.69	Pass
		2462	1	3.31	-26.69	Pass
802.11n (HT20)	SISO	2412	1	4.12	-25.88	Pass
		2437	1	4.12	-25.88	Pass
		2462	1	4.12	-25.88	Pass
802.11n (HT40)	SISO	2422	1	1.78	-28.22	Pass
		2437	1	1.78	-28.22	Pass
		2452	1	1.78	-28.22	Pass

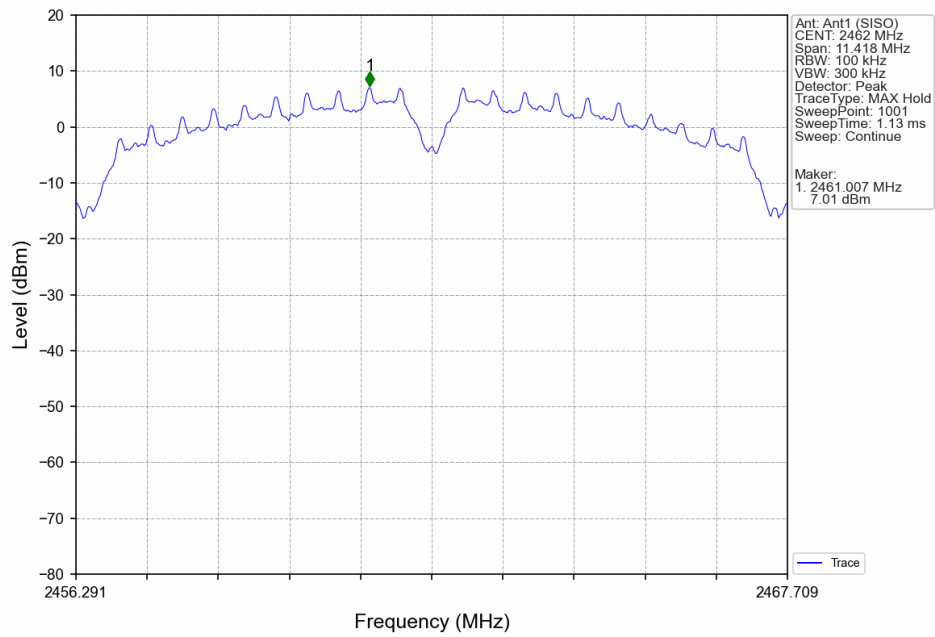
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

4.2 Test Graph

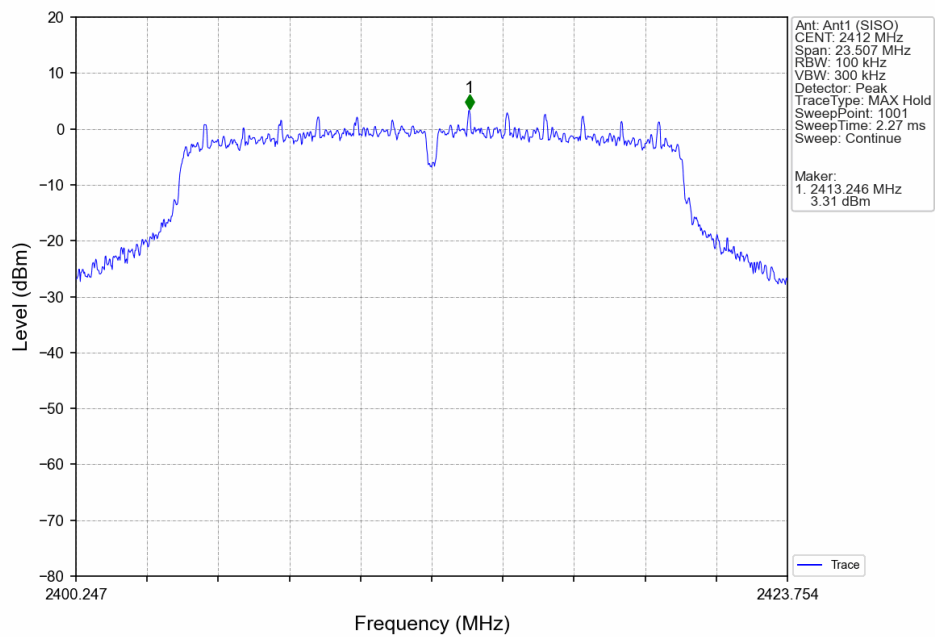
4.2.1 Ref



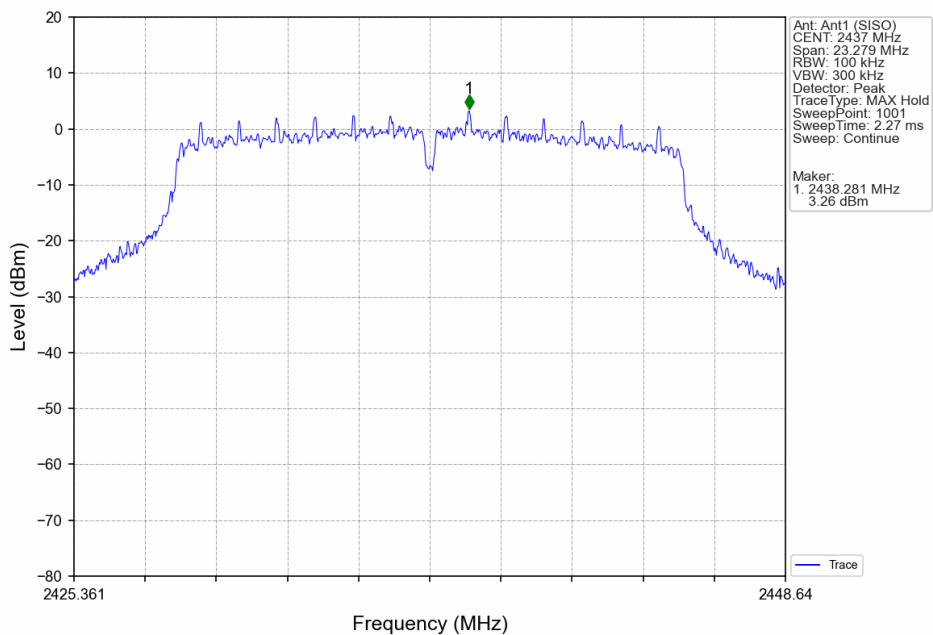
802.11b HCH 2462MHz Ant1 (SISO) NTN



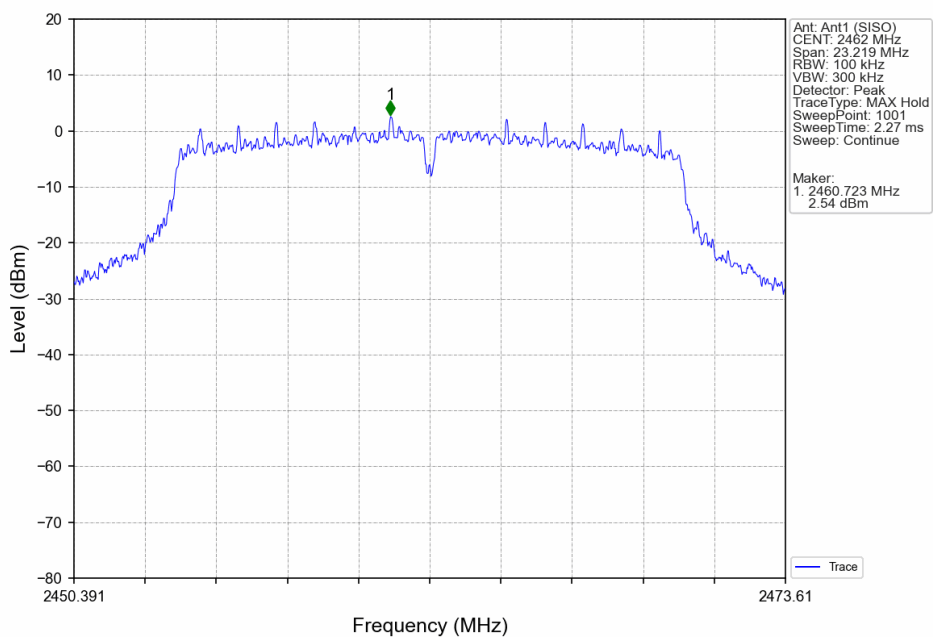
802.11g LCH 2412MHz Ant1 (SISO) NTN



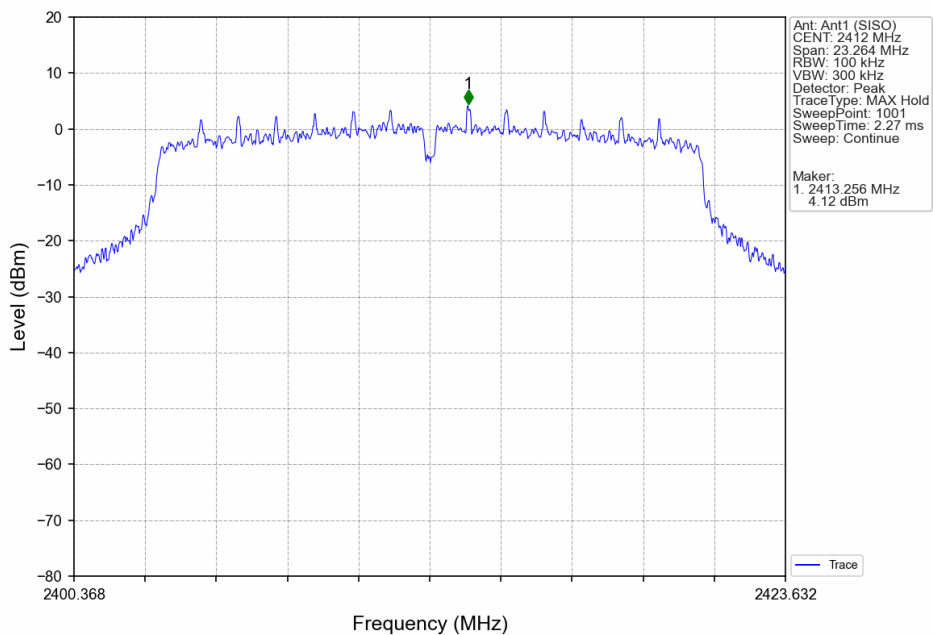
802.11g MCH 2437MHz Ant1 (SISO) NTN



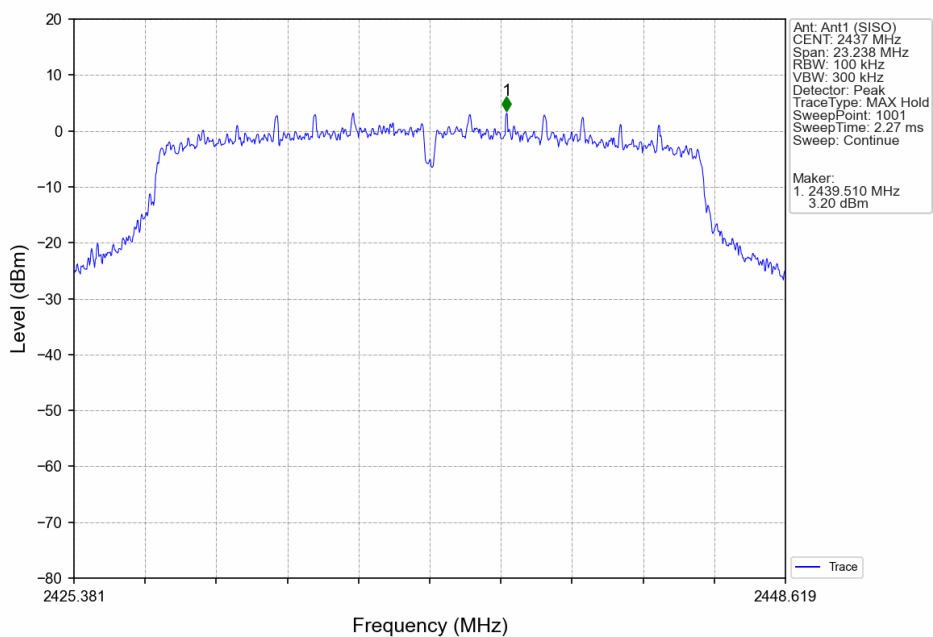
802.11g HCH 2462MHz Ant1 (SISO) NTN



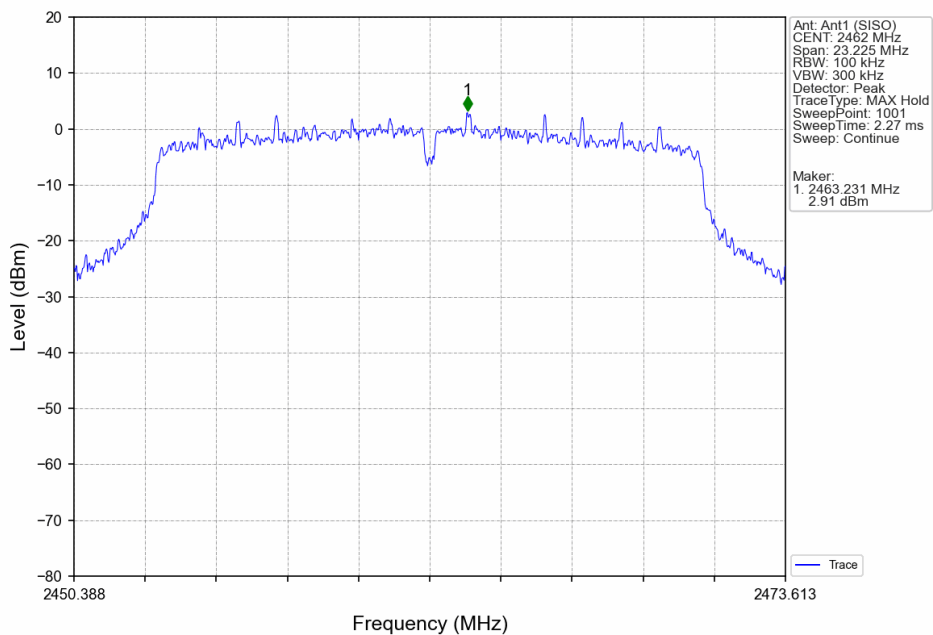
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



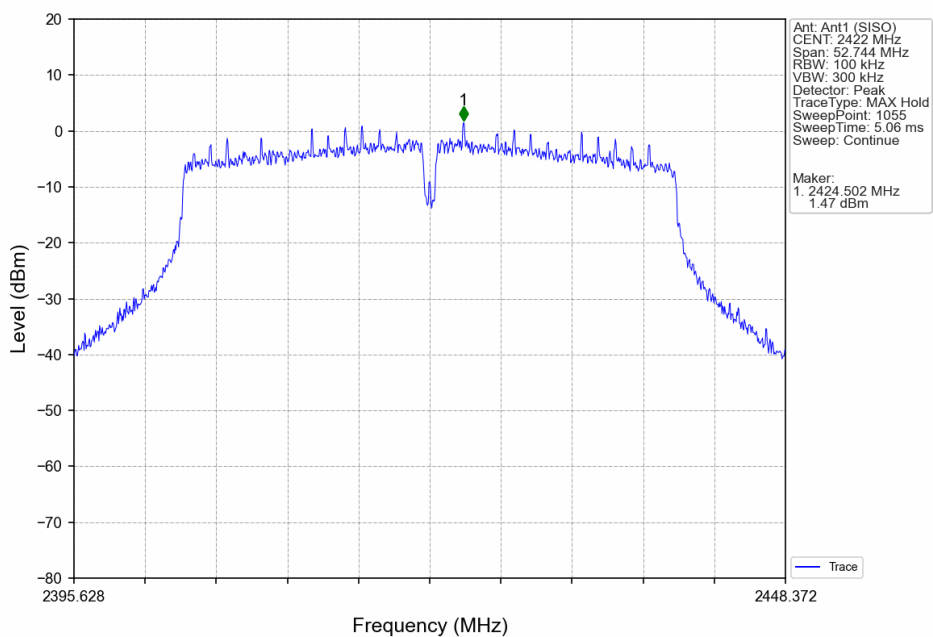
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



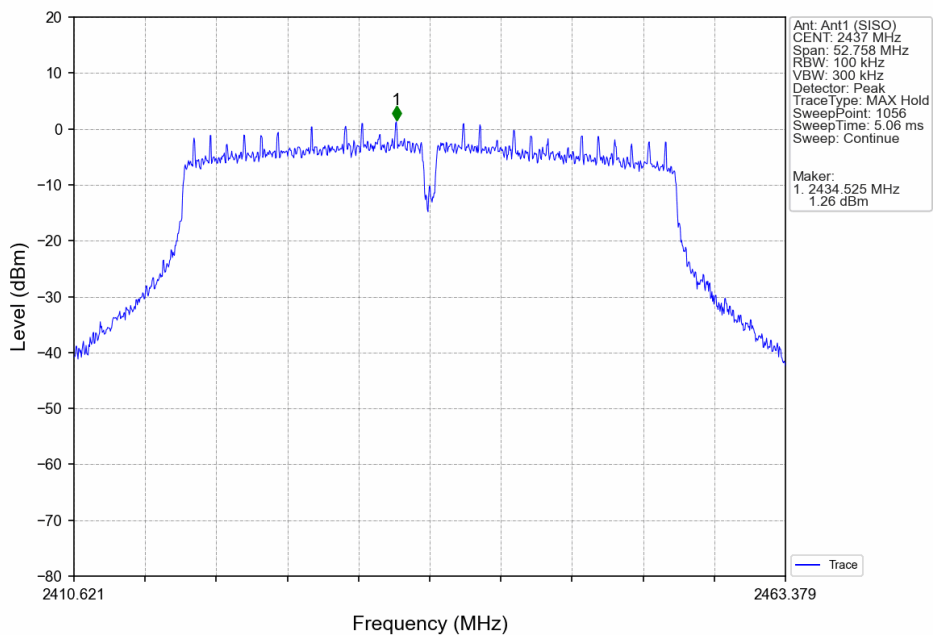
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



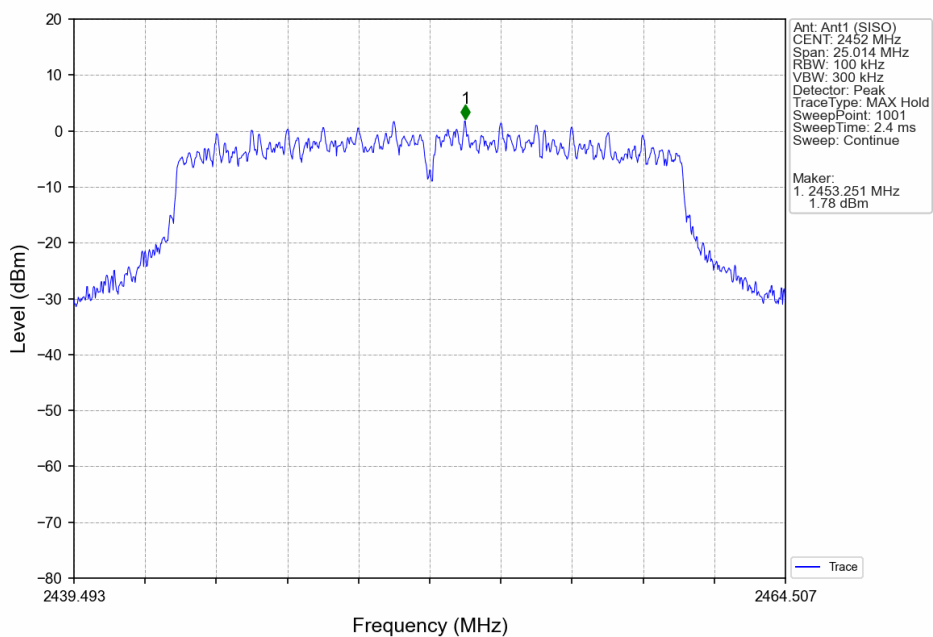
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



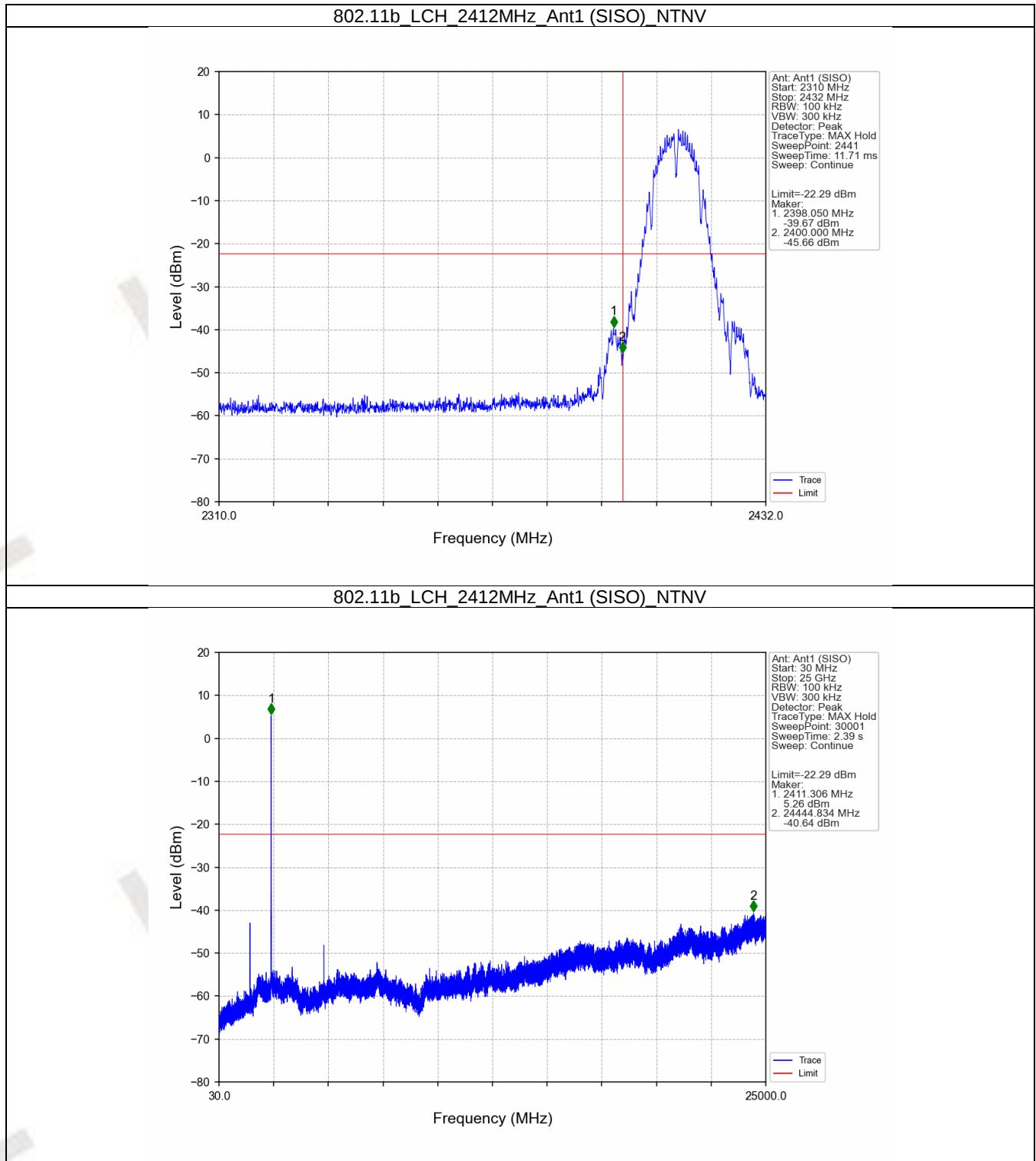
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



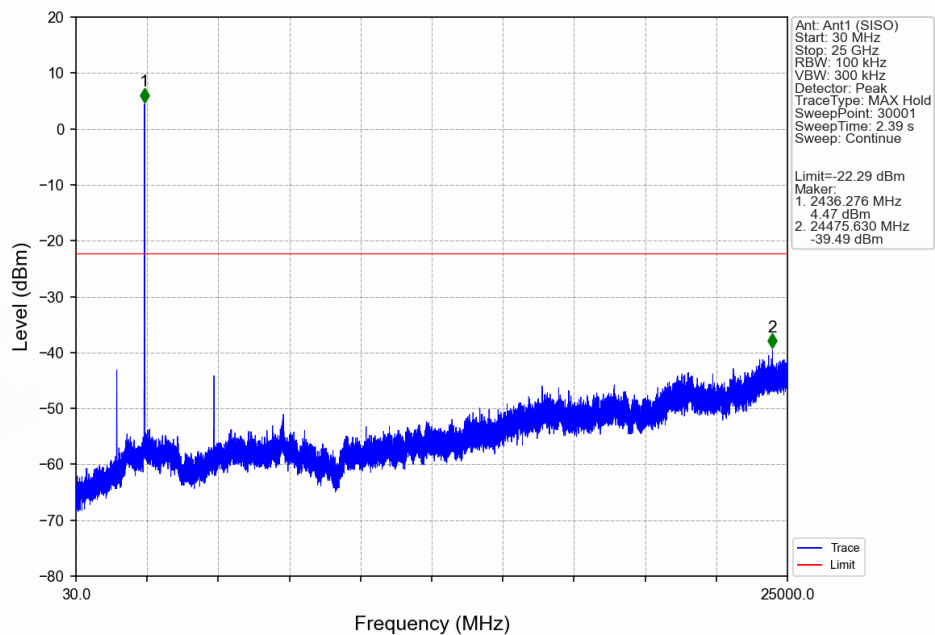
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



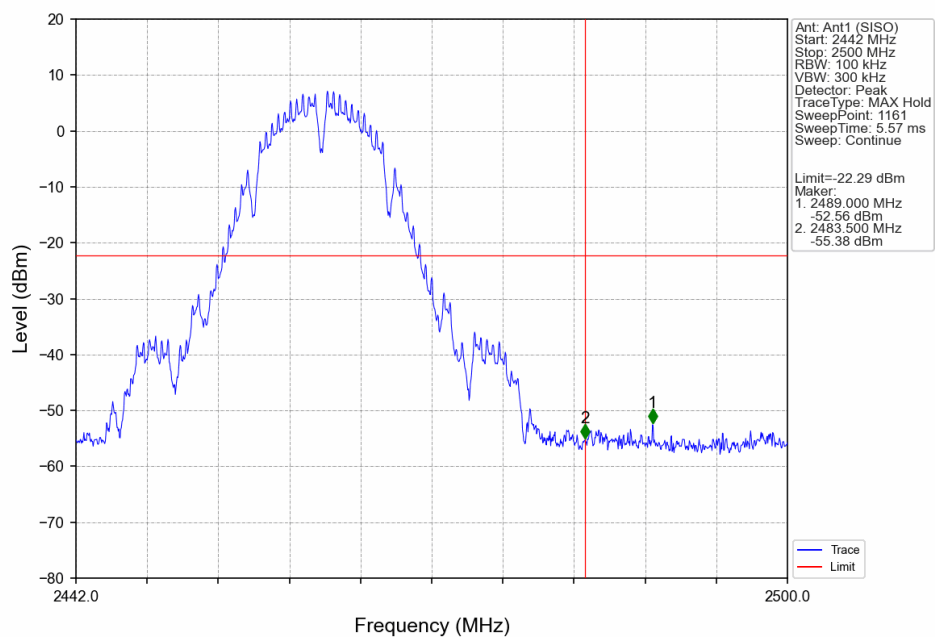
4.2.2 CSE



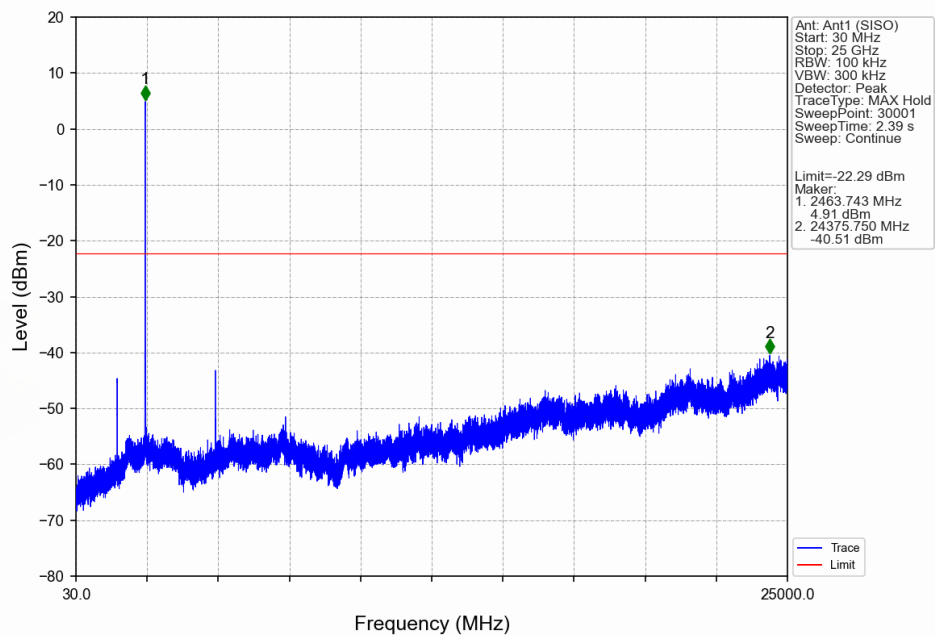
802.11b MCH 2437MHz Ant1 (SISO) NTN



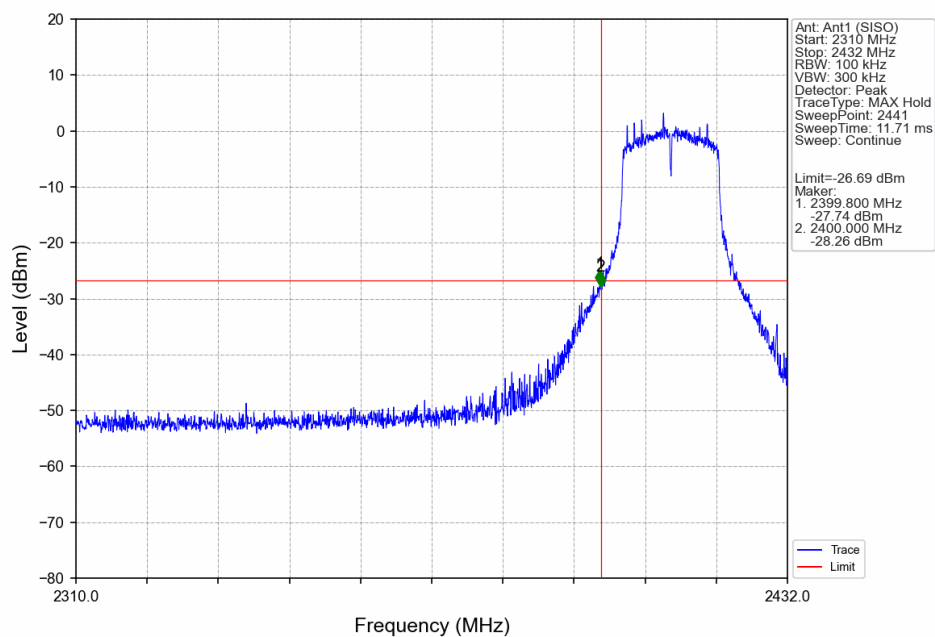
802.11b HCH 2462MHz Ant1 (SISO) NTN



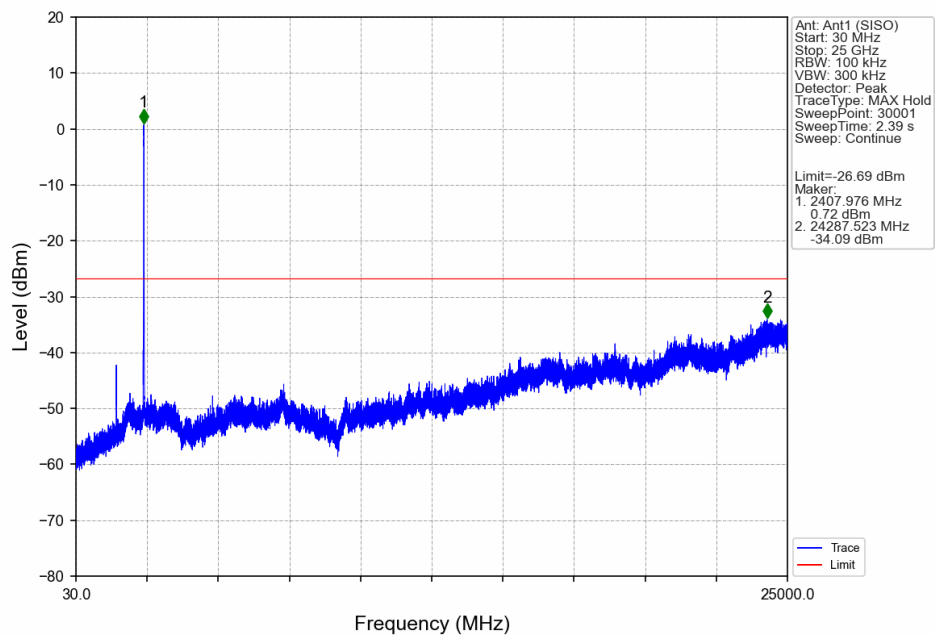
802.11b HCH 2462MHz Ant1 (SISO) NTN



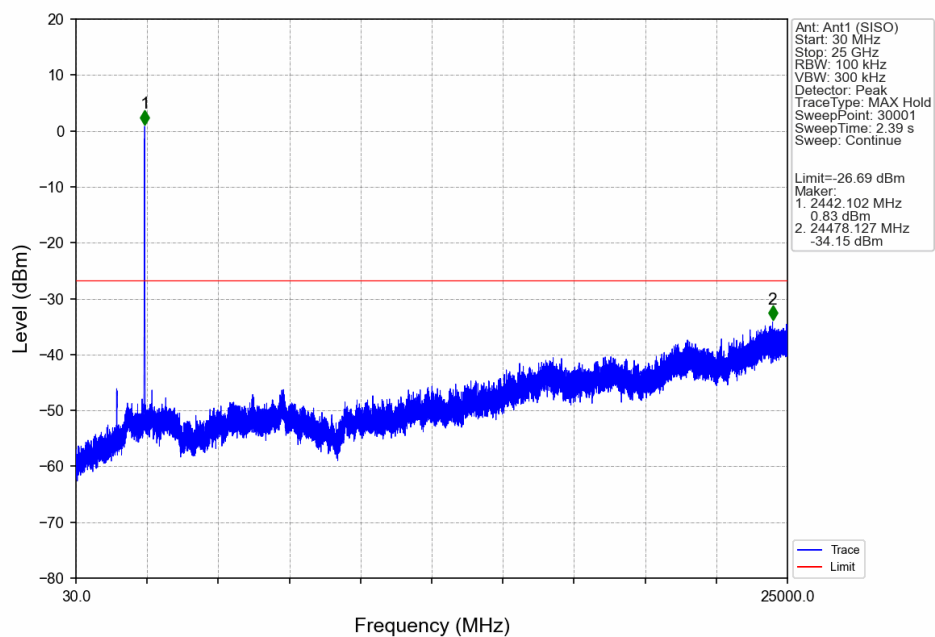
802.11g LCH 2412MHz Ant1 (SISO) NTN



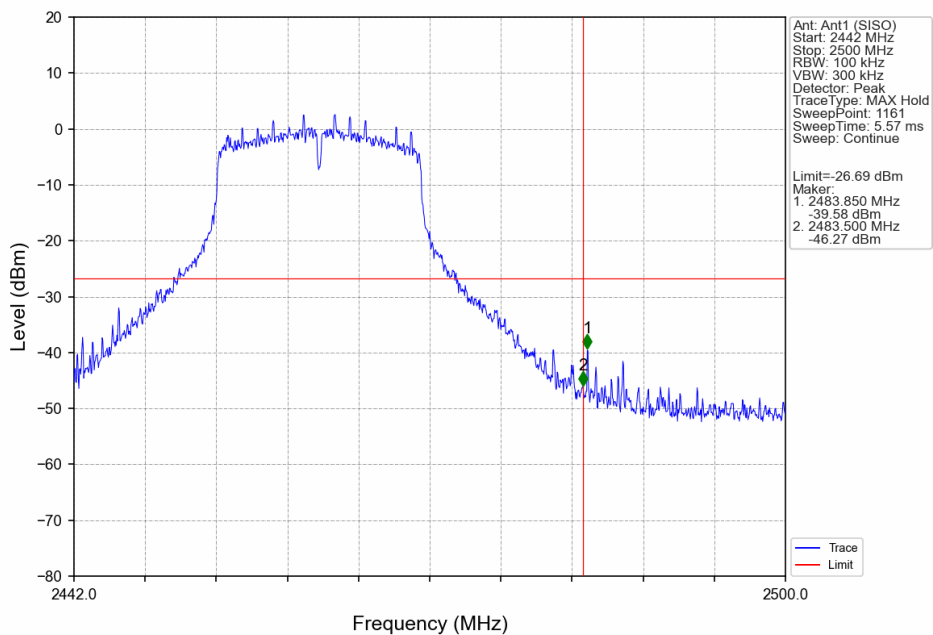
802.11g LCH 2412MHz Ant1 (SISO) NTN



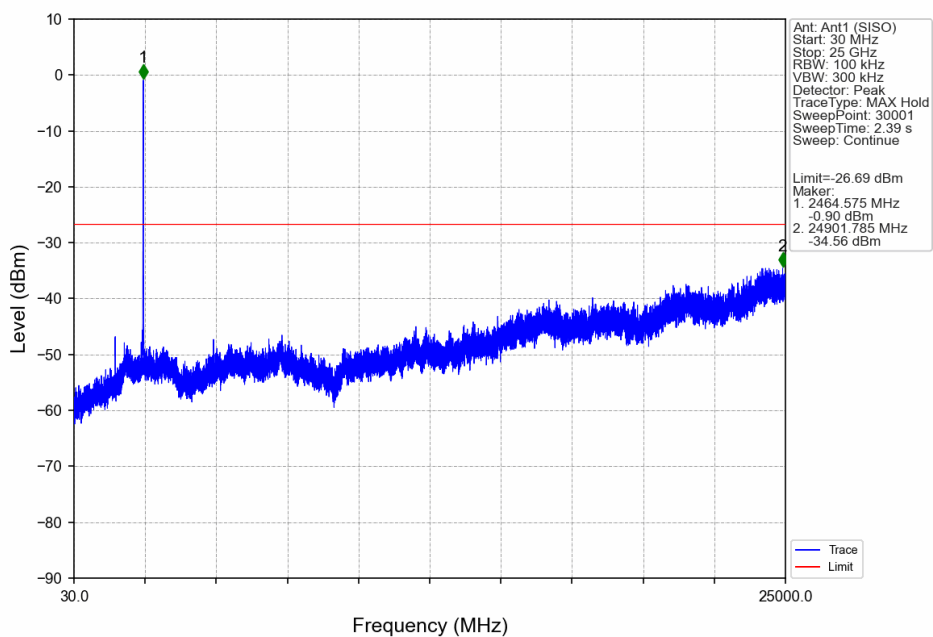
802.11g MCH 2437MHz Ant1 (SISO) NTN



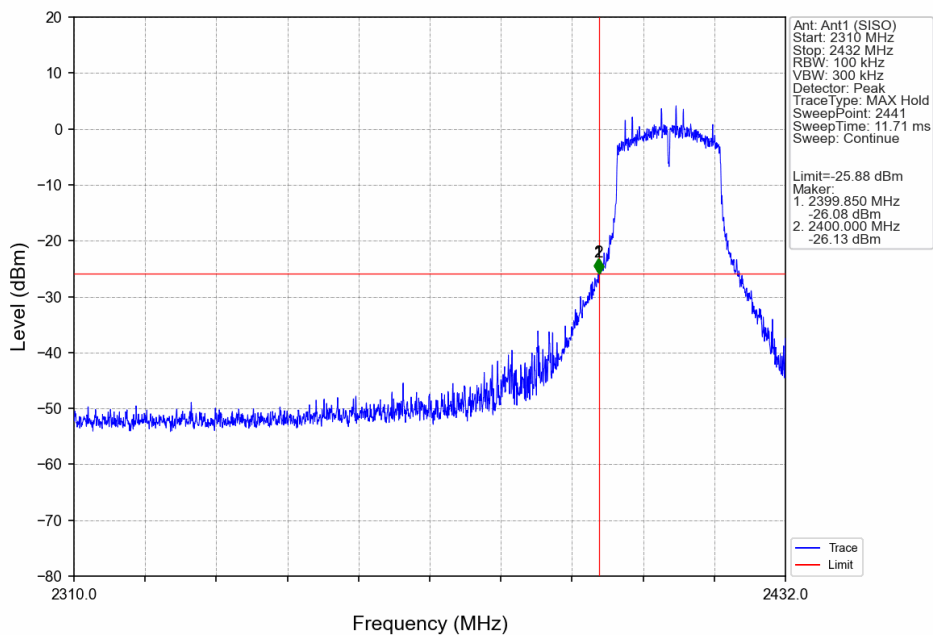
802.11g HCH 2462MHz Ant1 (SISO) NTN



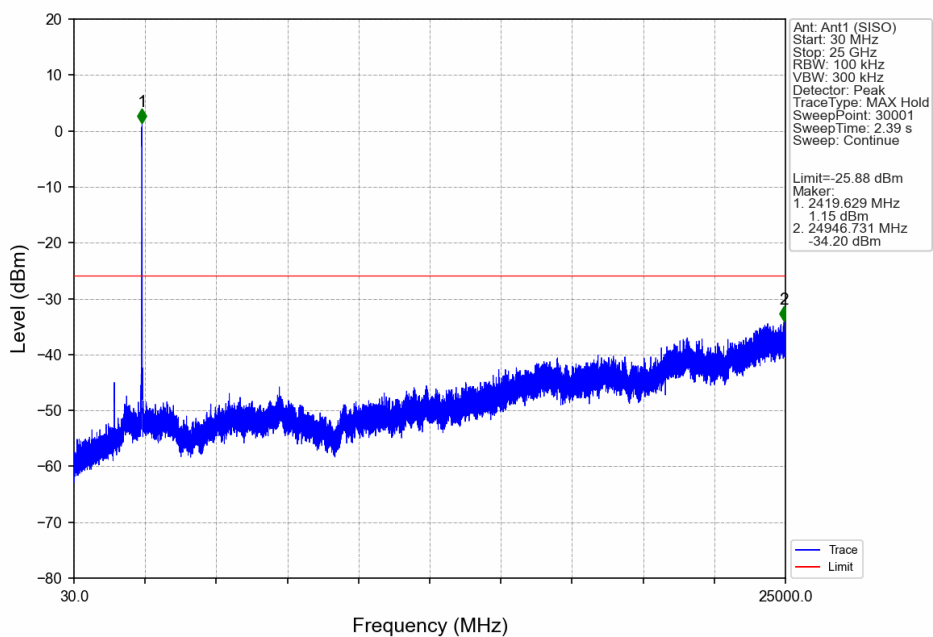
802.11g HCH 2462MHz Ant1 (SISO) NTN



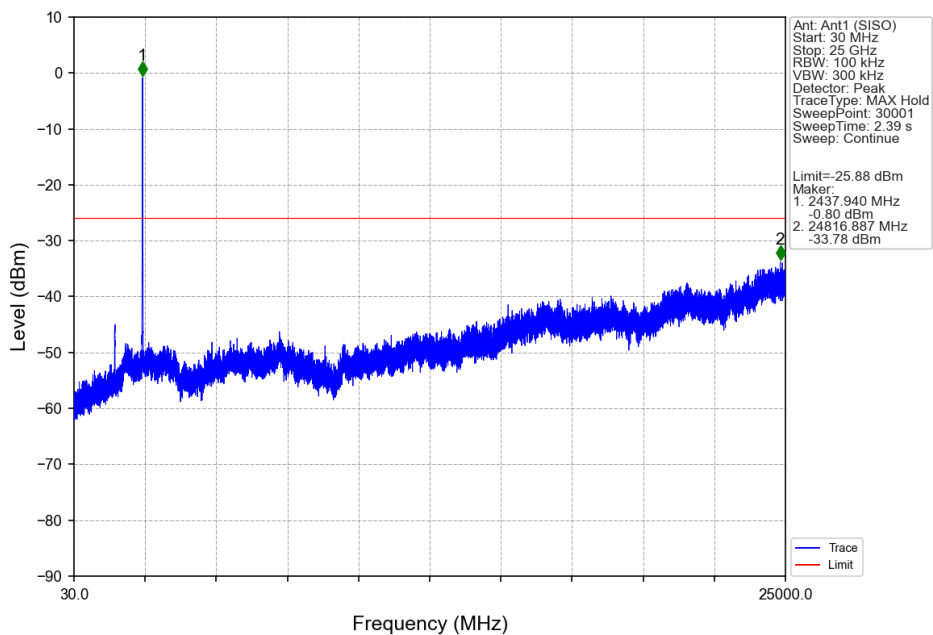
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



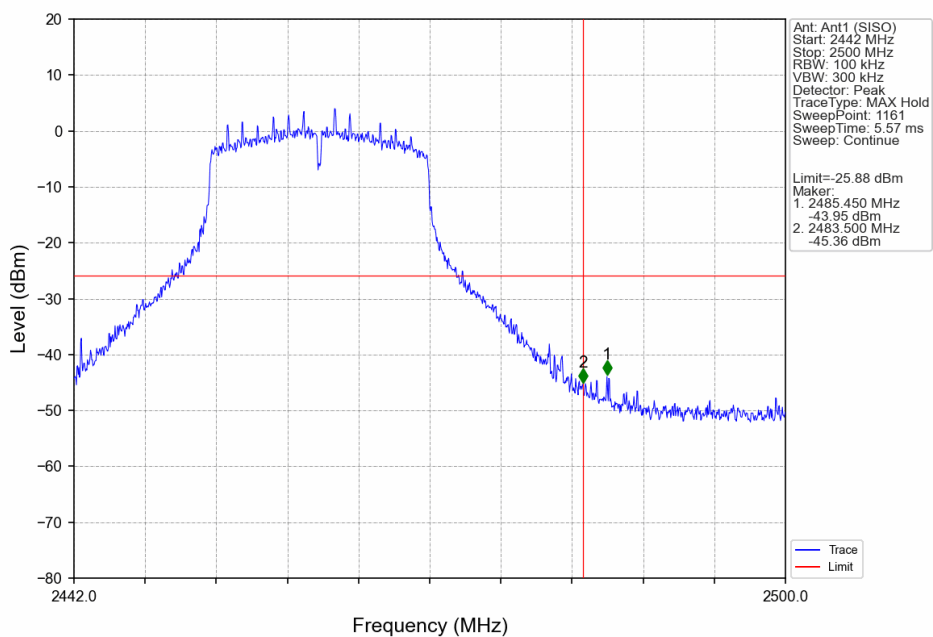
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



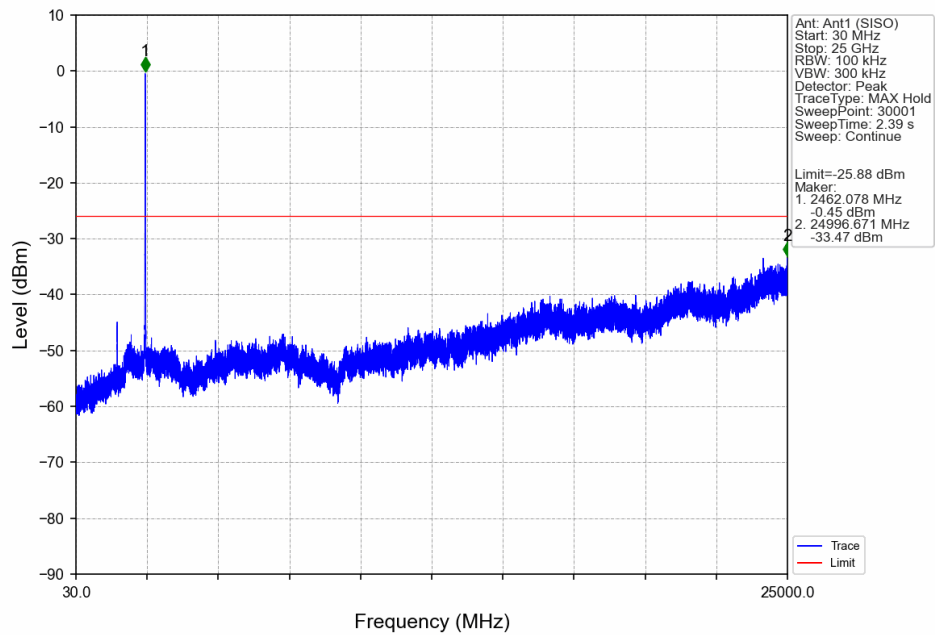
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



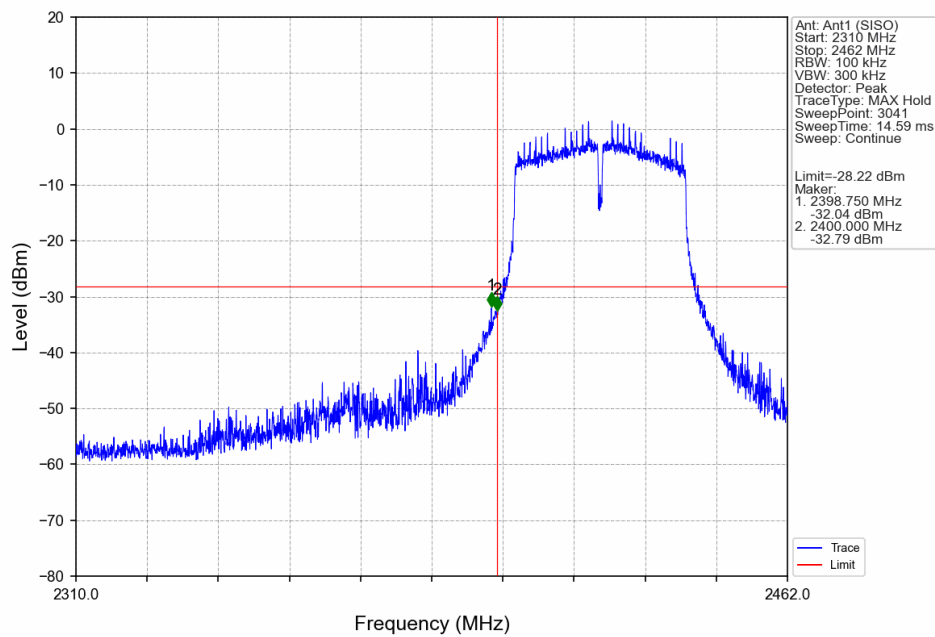
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



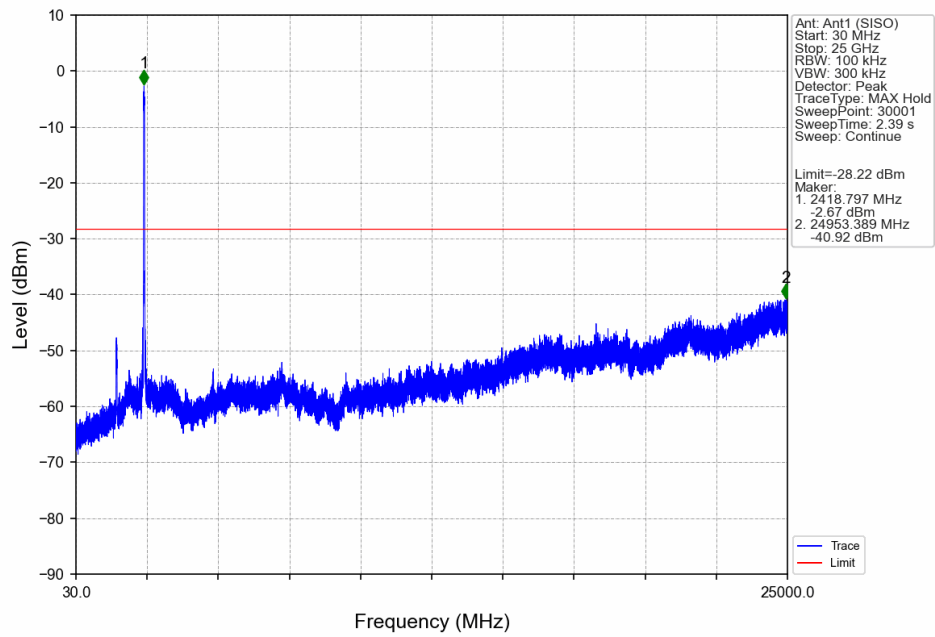
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



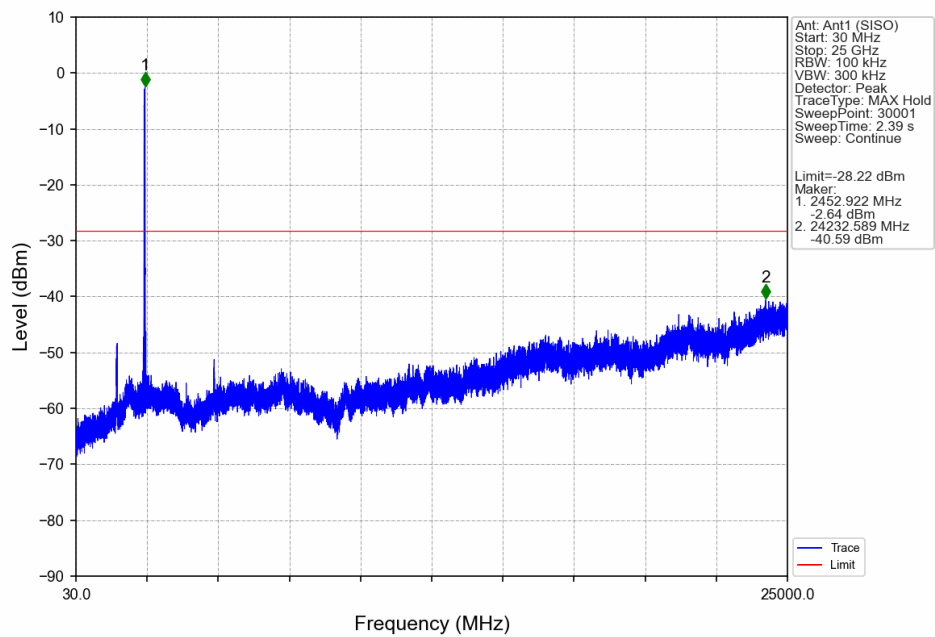
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



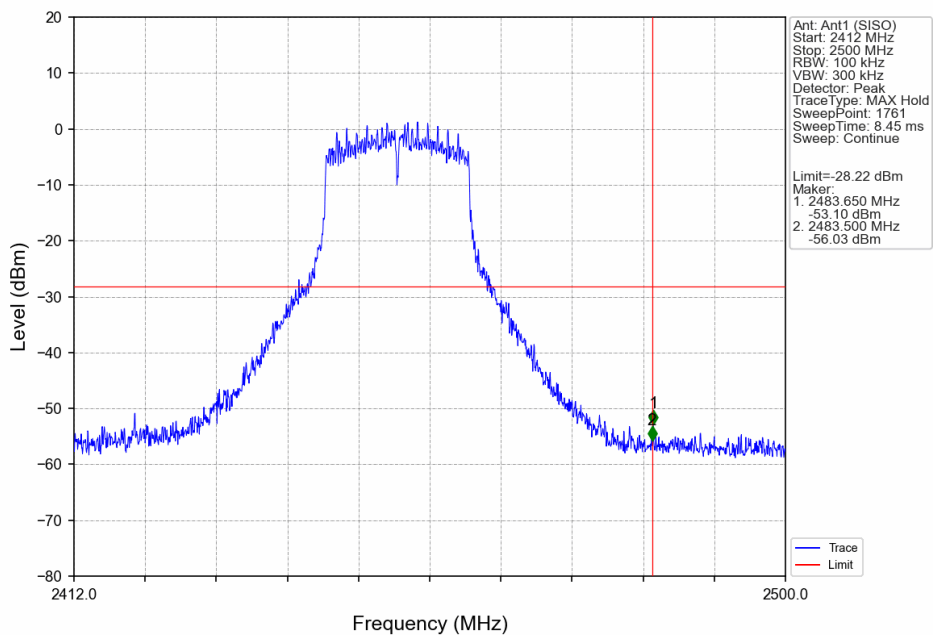
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



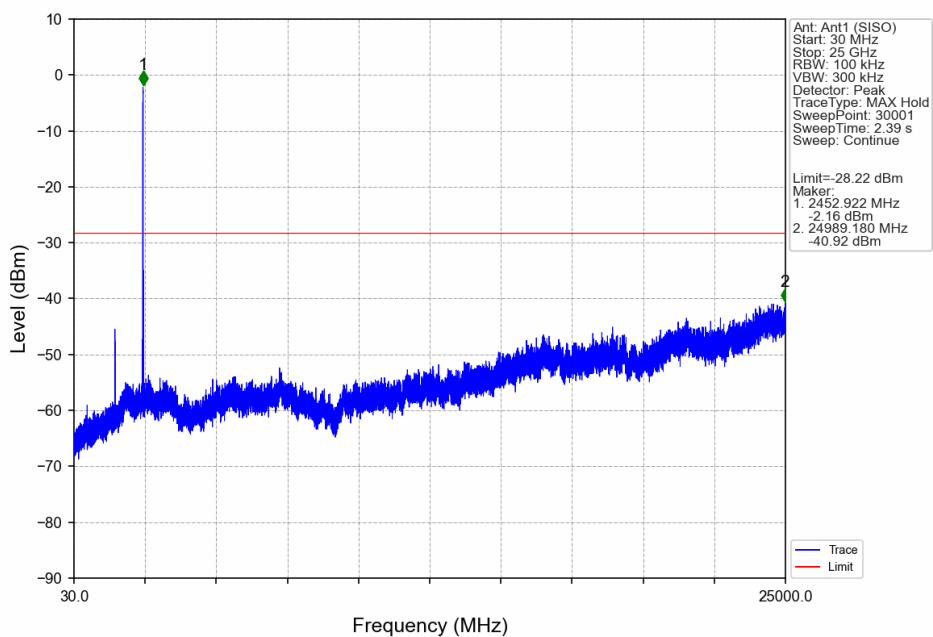
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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



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



5. Duty Cycle

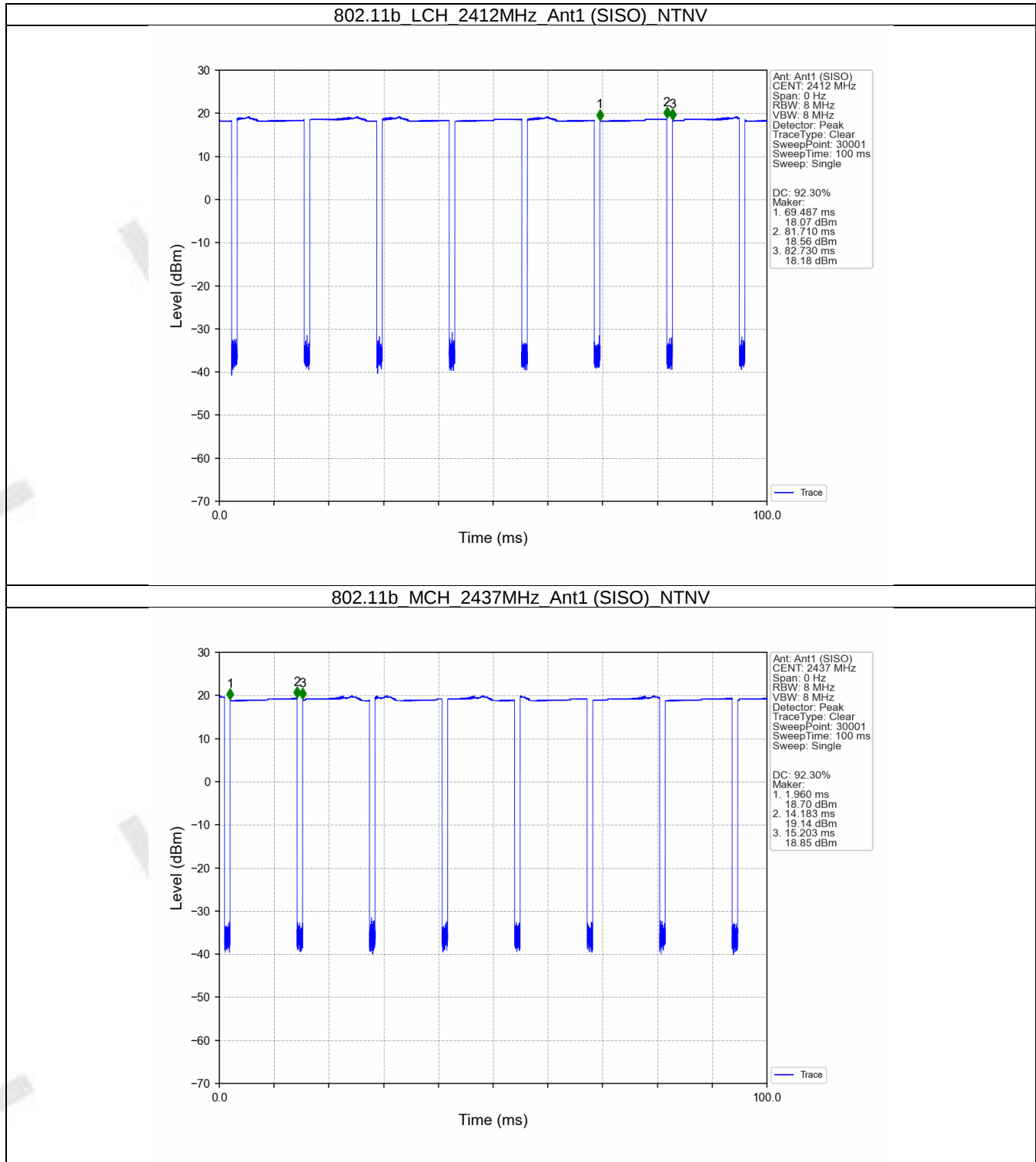
5.1 Test Result

5.1.1 Ant1

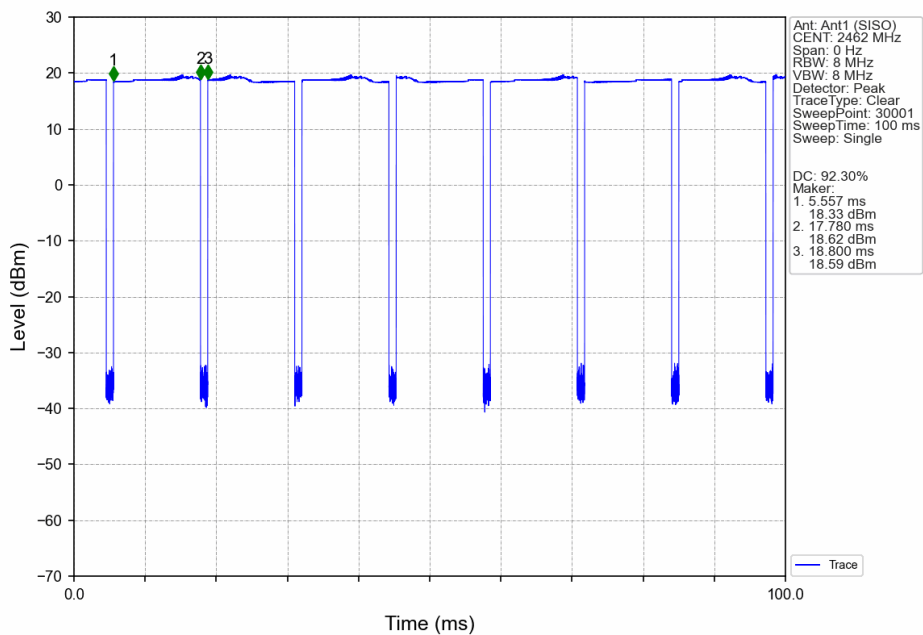
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.223	13.243	92.30	0.35	0.03
		2437	12.223	13.243	92.30	0.35	0.03
		2462	12.223	13.243	92.30	0.35	0.03
802.11g	SISO	2412	2.034	3.063	66.41	1.78	0.22
		2437	2.034	3.062	66.43	1.78	0.24
		2462	2.034	3.062	66.43	1.78	0.22
802.11n (HT20)	SISO	2412	1.894	2.918	64.91	1.88	0.03
		2437	1.894	2.922	64.82	1.88	0.23
		2462	1.895	2.923	64.83	1.88	0.22
802.11n (HT40)	SISO	2422	0.934	1.961	47.63	3.22	0.23
		2437	0.934	1.954	47.80	3.21	0.03
		2452	0.227	1.347	16.85	7.73	1.38

5.2 Test Graph

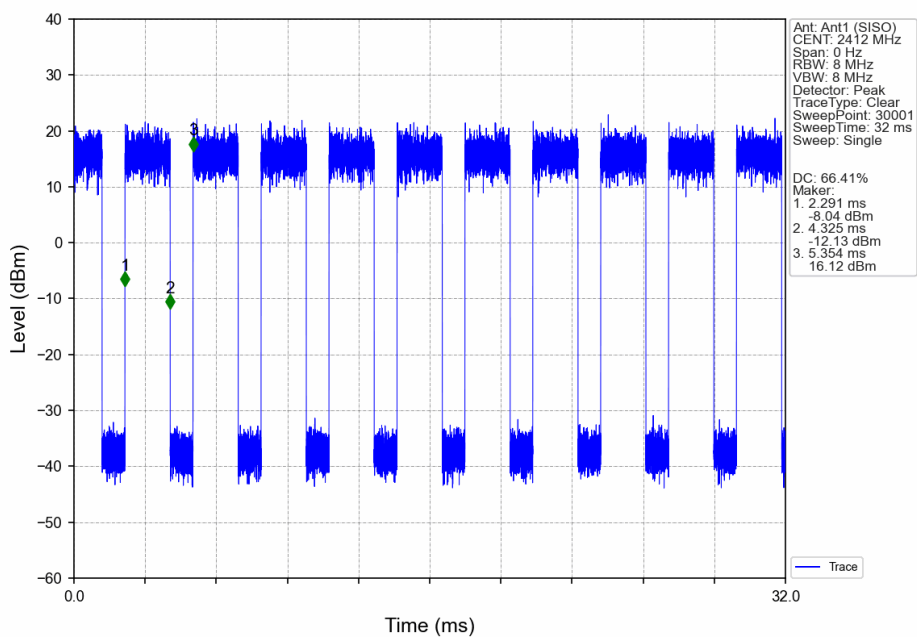
5.2.1 Ant1



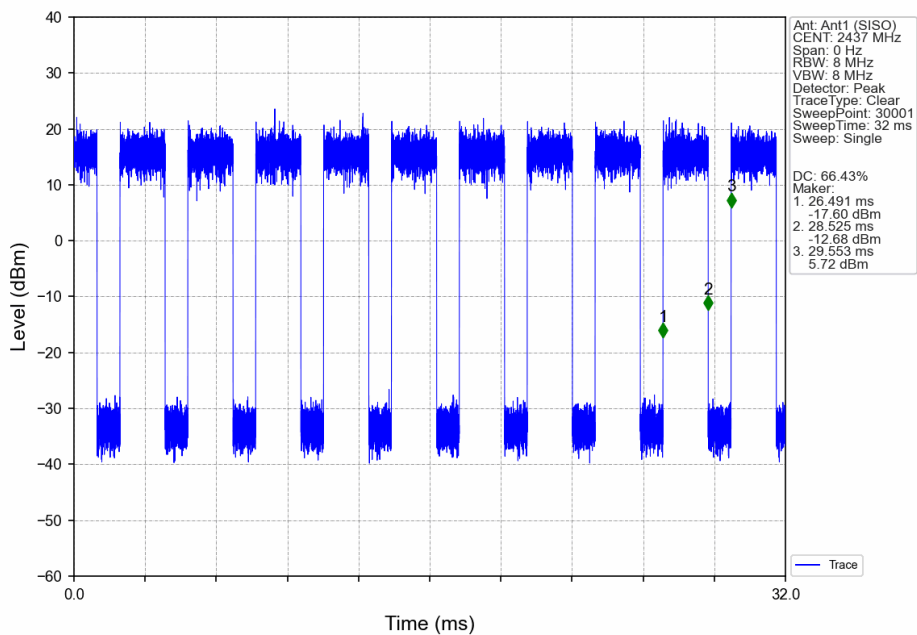
802.11b HCH 2462MHz Ant1 (SISO) NTN



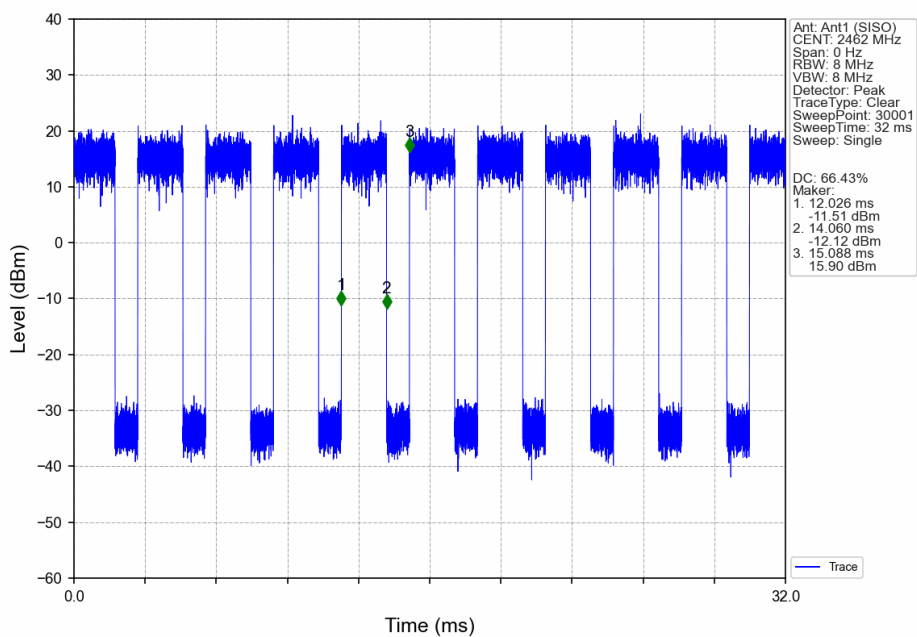
802.11g LCH 2412MHz Ant1 (SISO) NTN



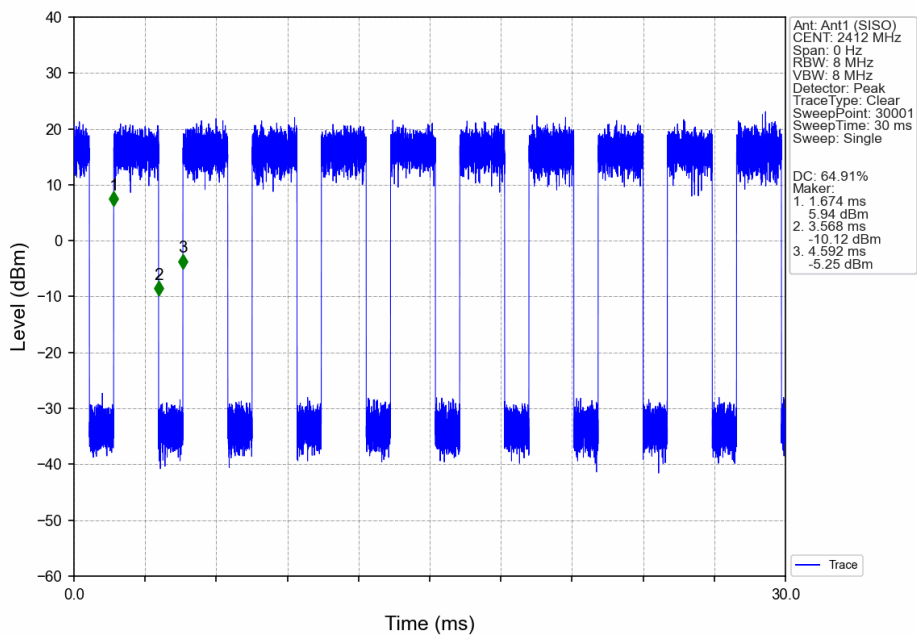
802.11g MCH 2437MHz Ant1 (SISO) NTN



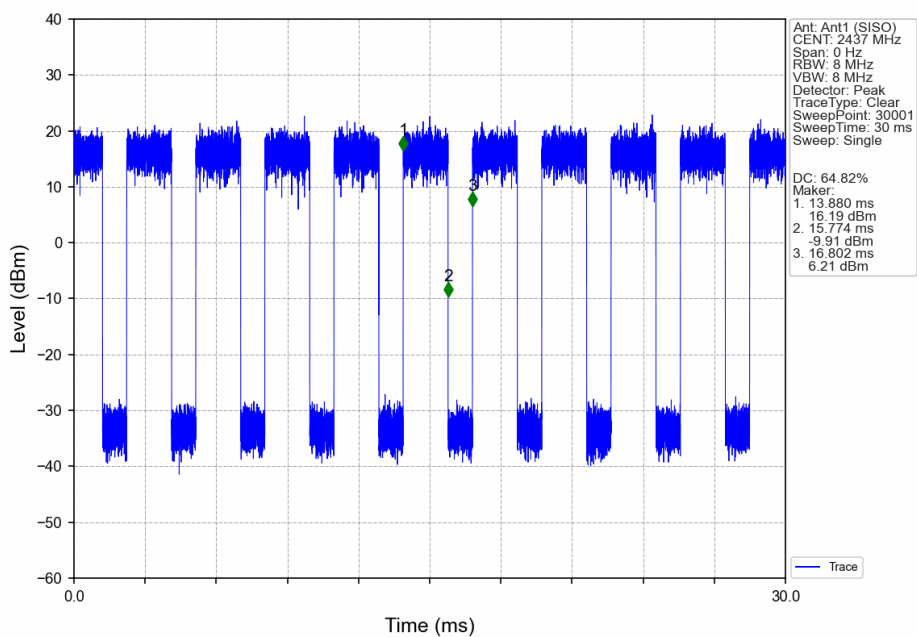
802.11g HCH 2462MHz Ant1 (SISO) NTN



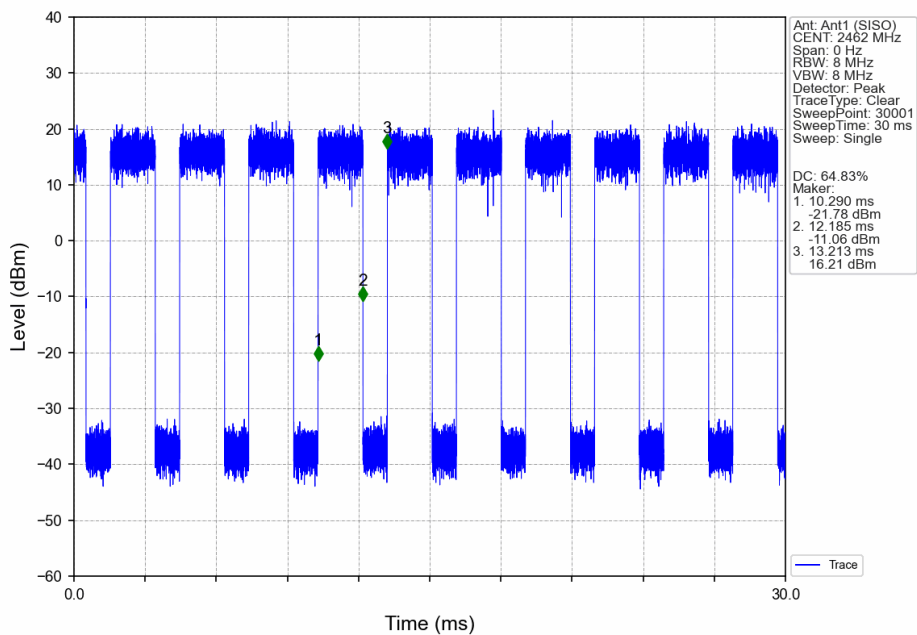
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



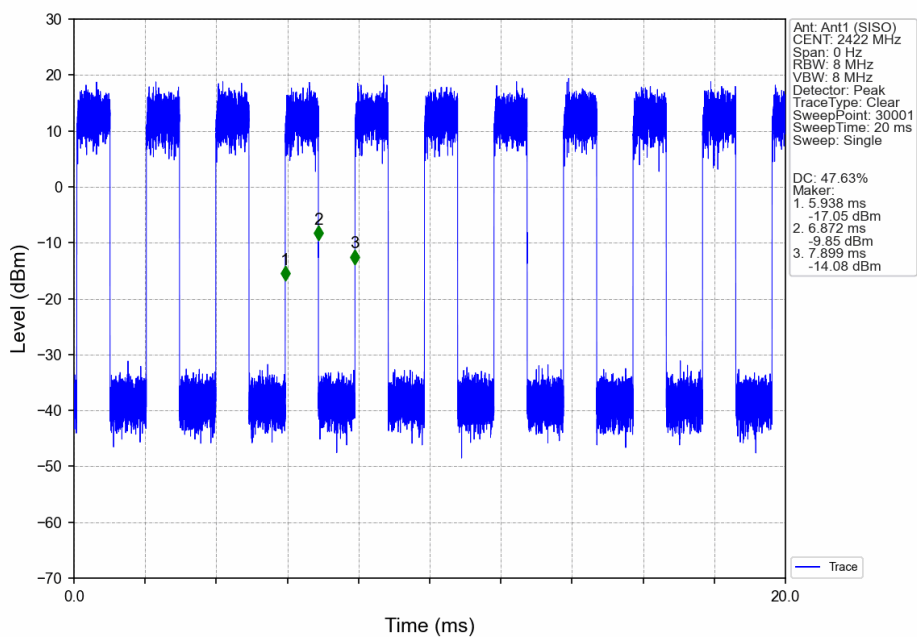
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



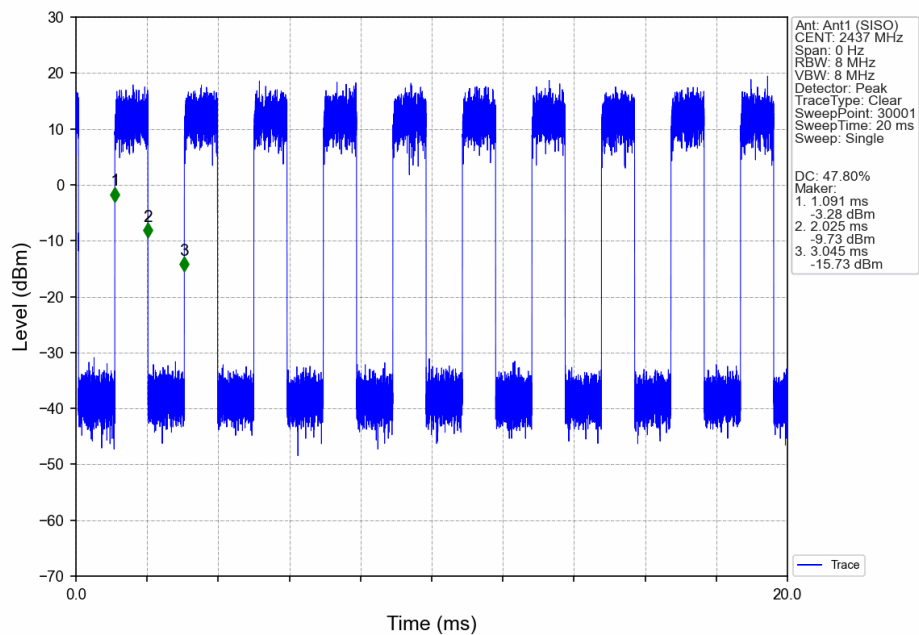
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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

