

1. Duty Cycle

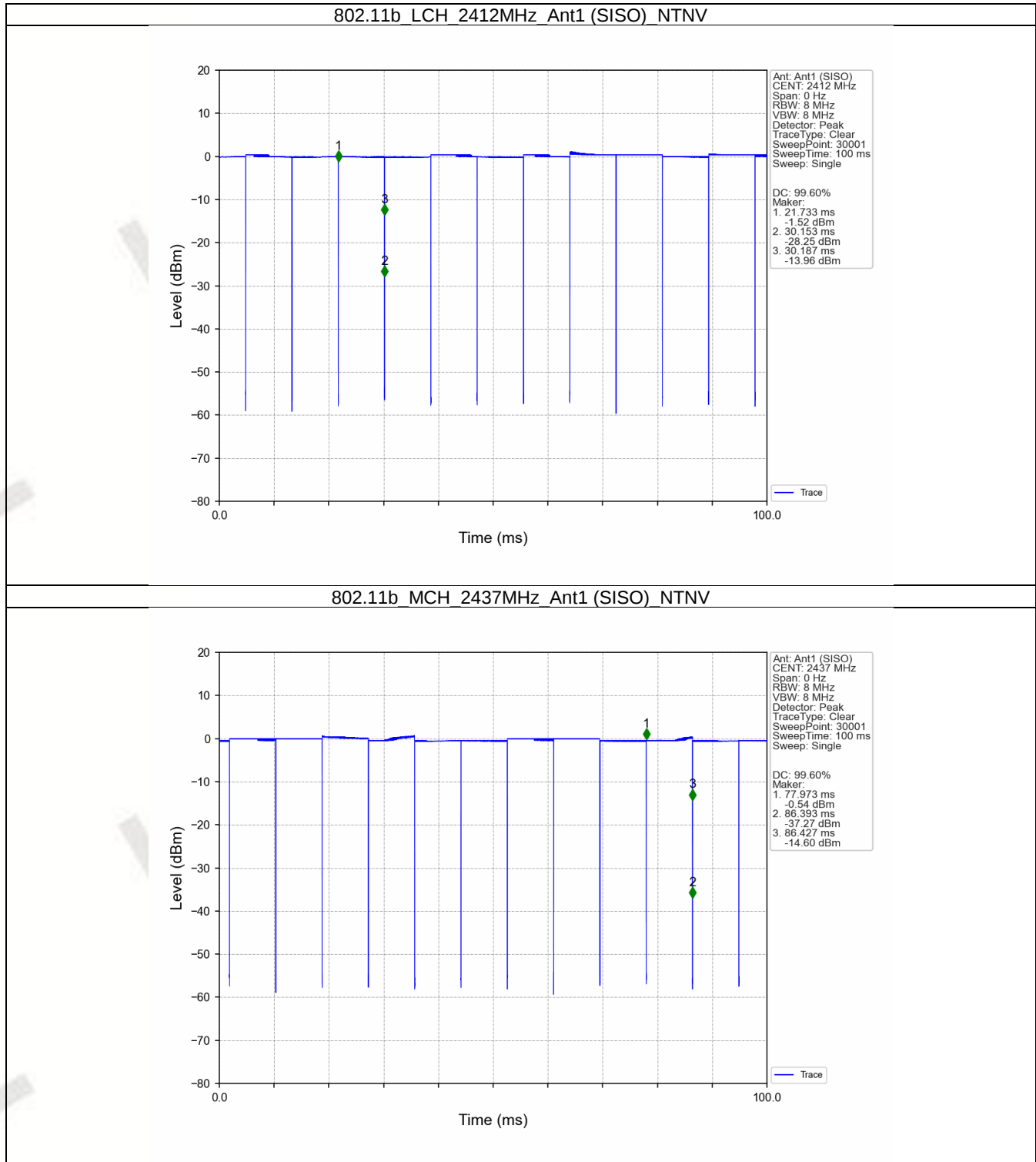
1.1 Test Result

1.1.1 Ant1

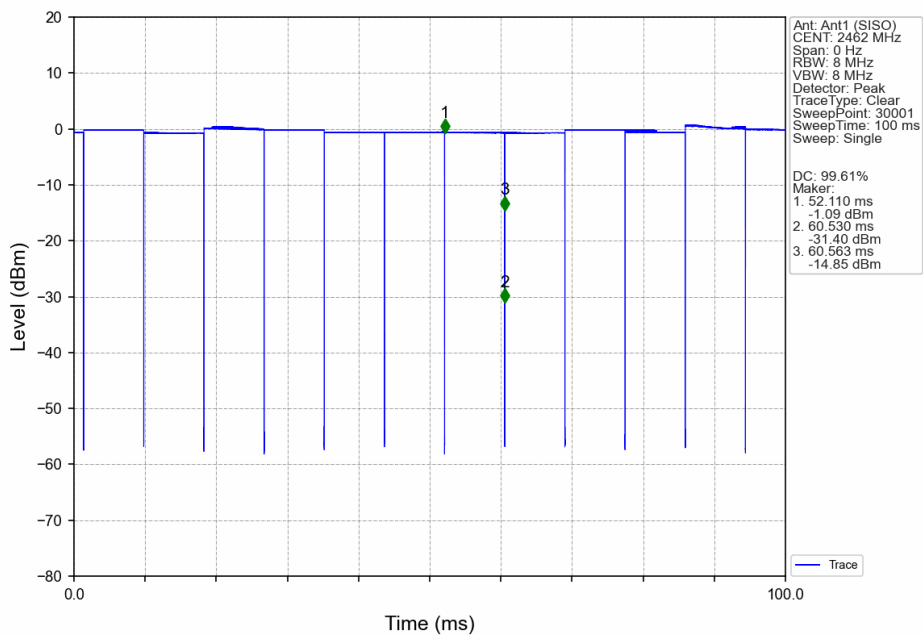
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.420	8.454	99.60	0.02	0.00
		2437	8.420	8.454	99.60	0.02	0.04
		2462	8.420	8.453	99.61	0.02	0.04
802.11g	SISO	2412	1.399	1.436	97.42	0.11	0.00
		2437	1.398	1.436	97.35	0.12	0.03
		2462	1.398	1.436	97.35	0.12	0.03
802.11n (HT20)	SISO	2412	1.310	1.347	97.25	0.12	0.03
		2437	1.309	1.348	97.11	0.13	0.03
		2462	1.311	1.348	97.26	0.12	0.00
802.11n (HT40)	SISO	2422	0.649	0.686	94.61	0.24	0.04
		2437	0.651	0.687	94.76	0.23	0.10
		2452	0.649	0.686	94.61	0.24	0.04

1.2 Test Graph

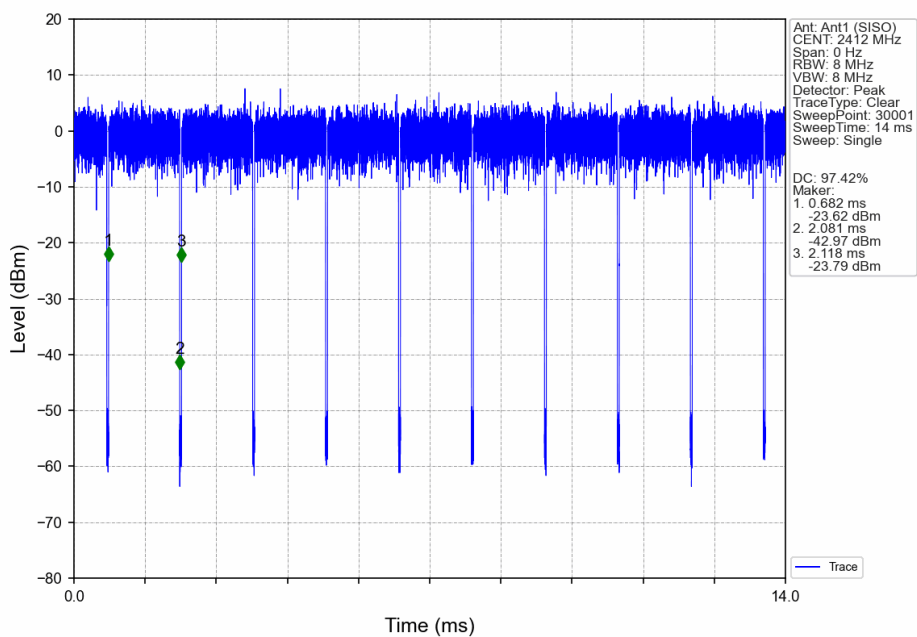
1.2.1 Ant1



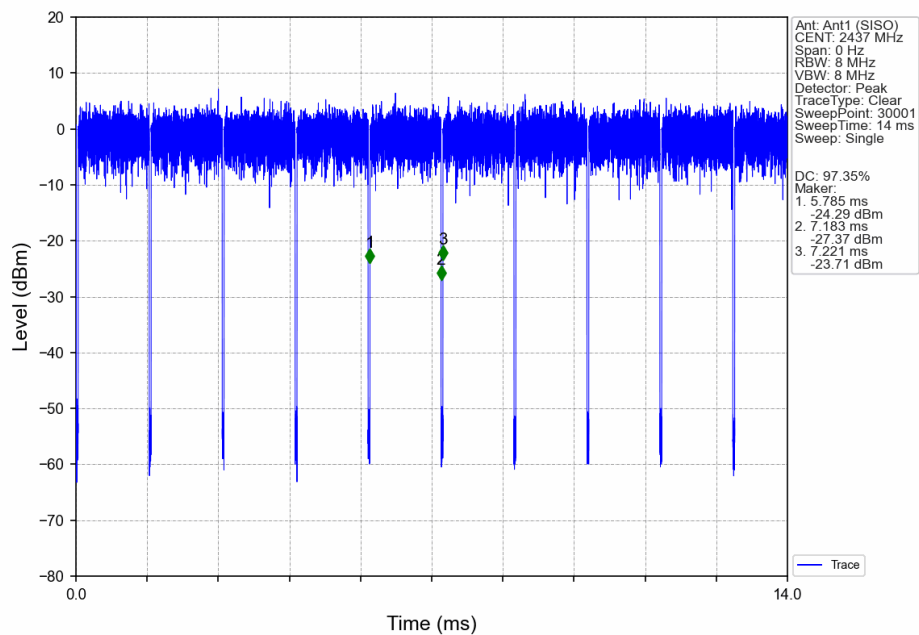
802.11b HCH 2462MHz Ant1 (SISO) NTNV



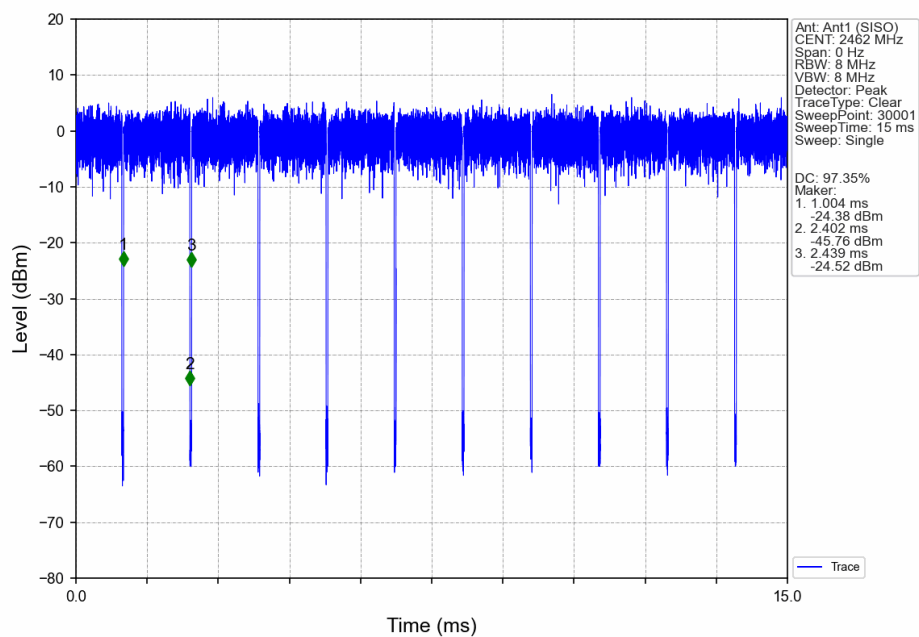
802.11g LCH 2412MHz Ant1 (SISO) NTNV



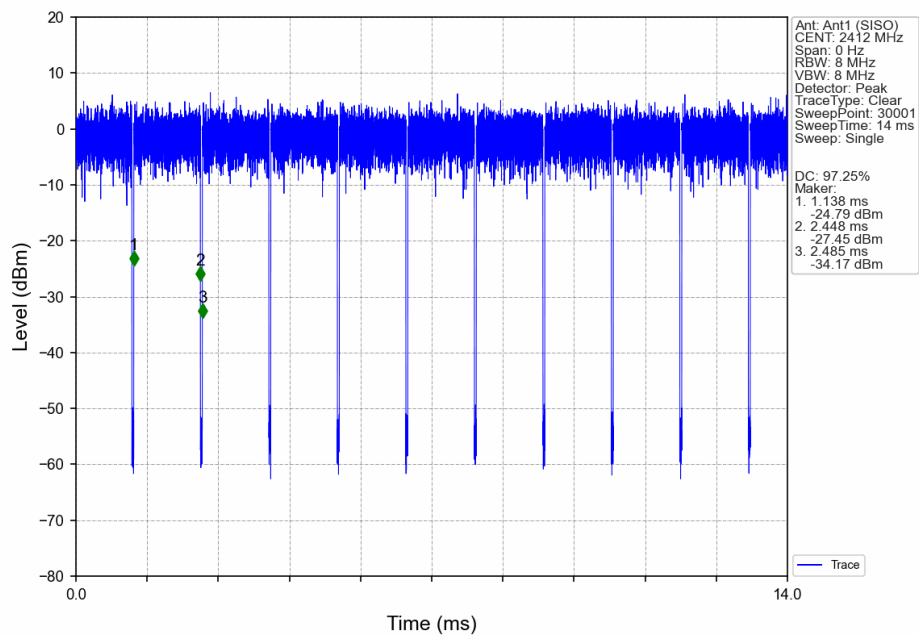
802.11g MCH 2437MHz Ant1 (SISO) NTNV



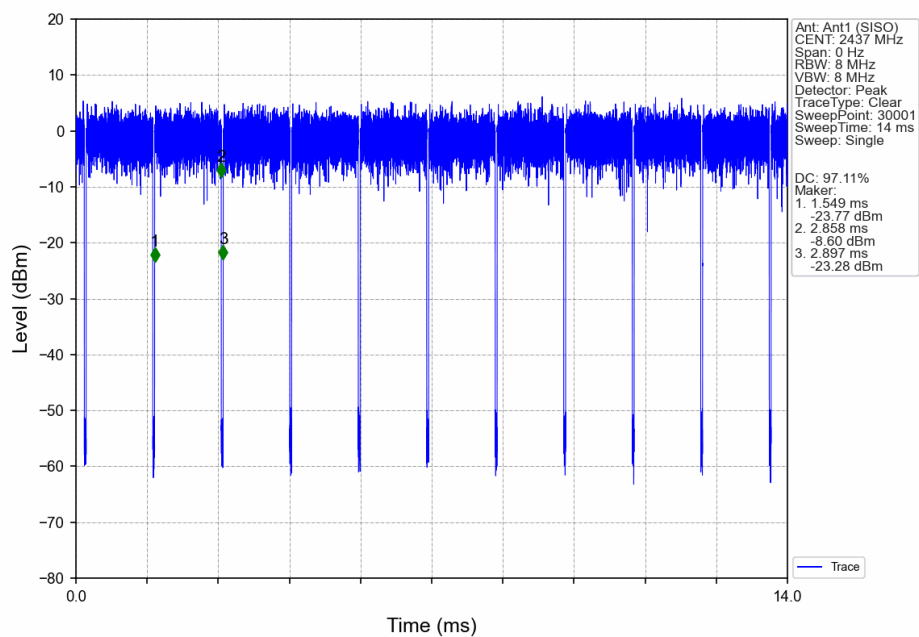
802.11g HCH 2462MHz Ant1 (SISO) NTNV



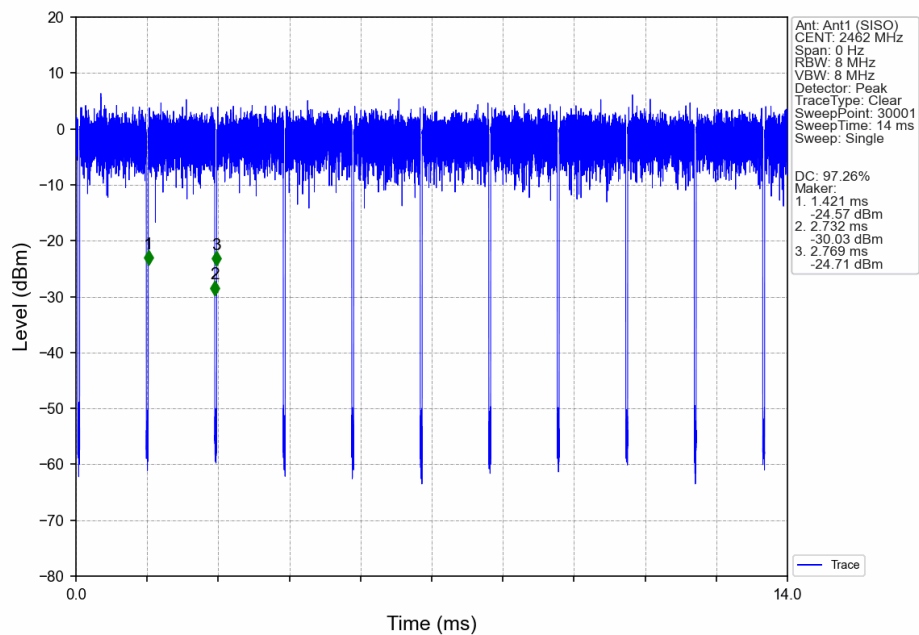
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



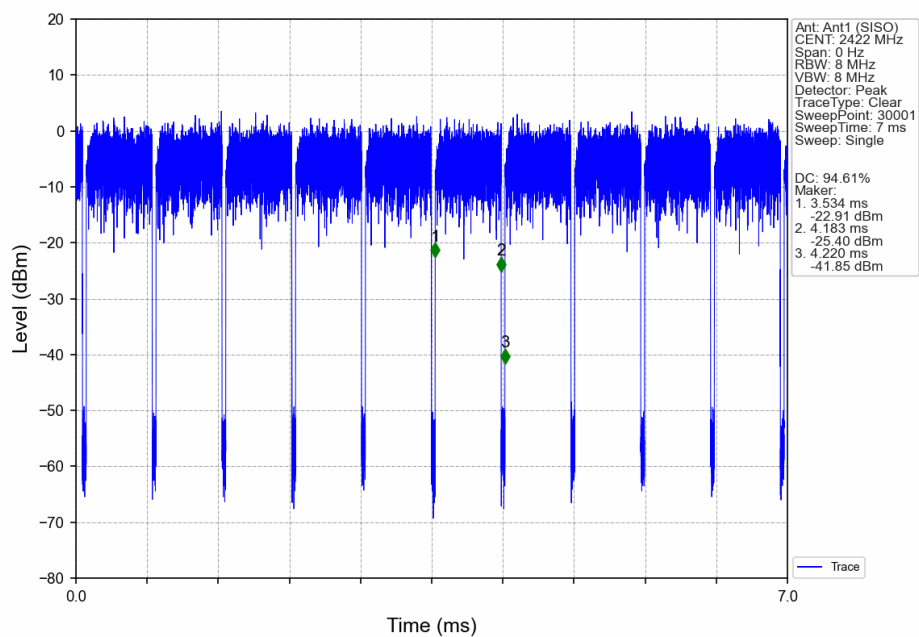
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



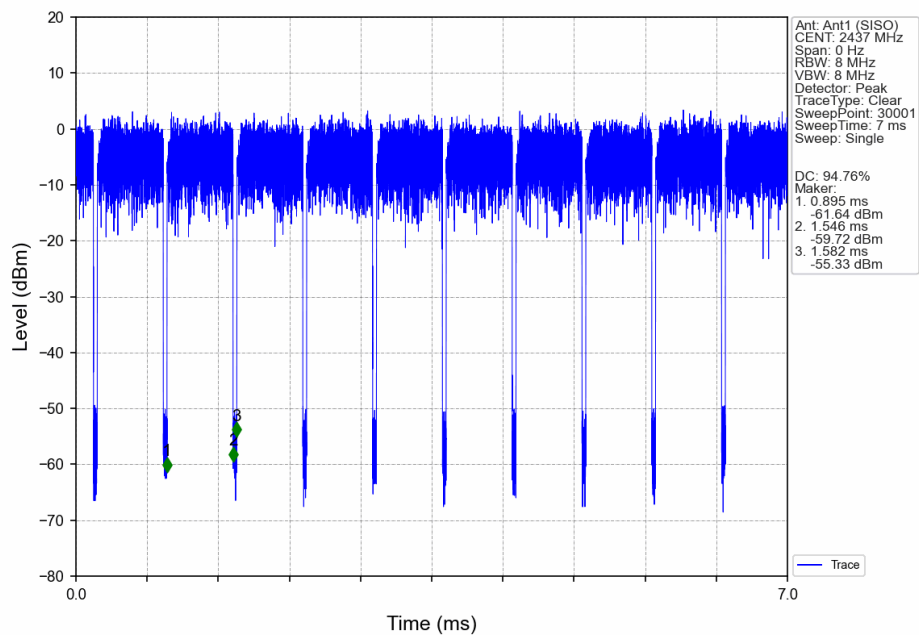
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



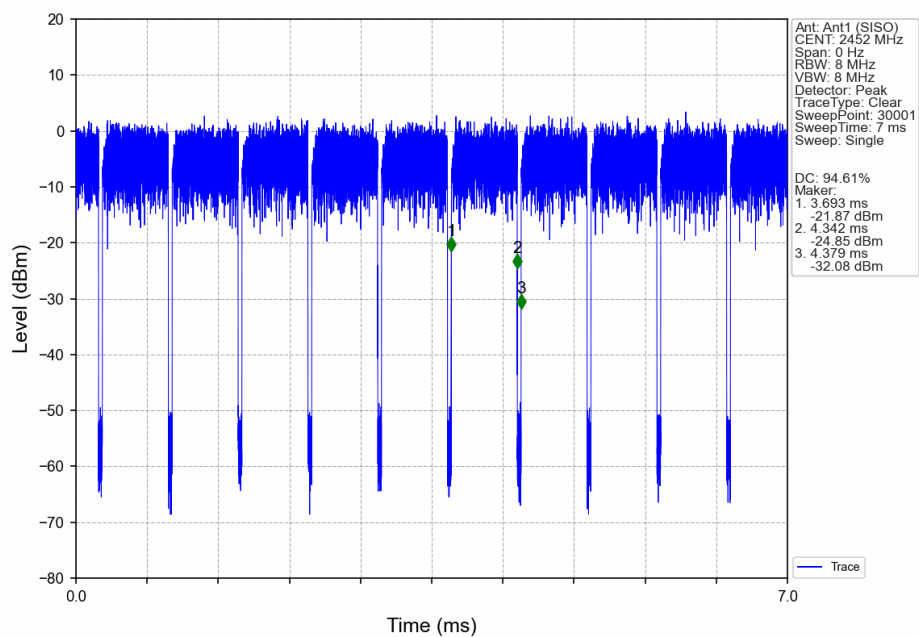
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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



2. Bandwidth

2.1 Test Result

2.1.1 OBW

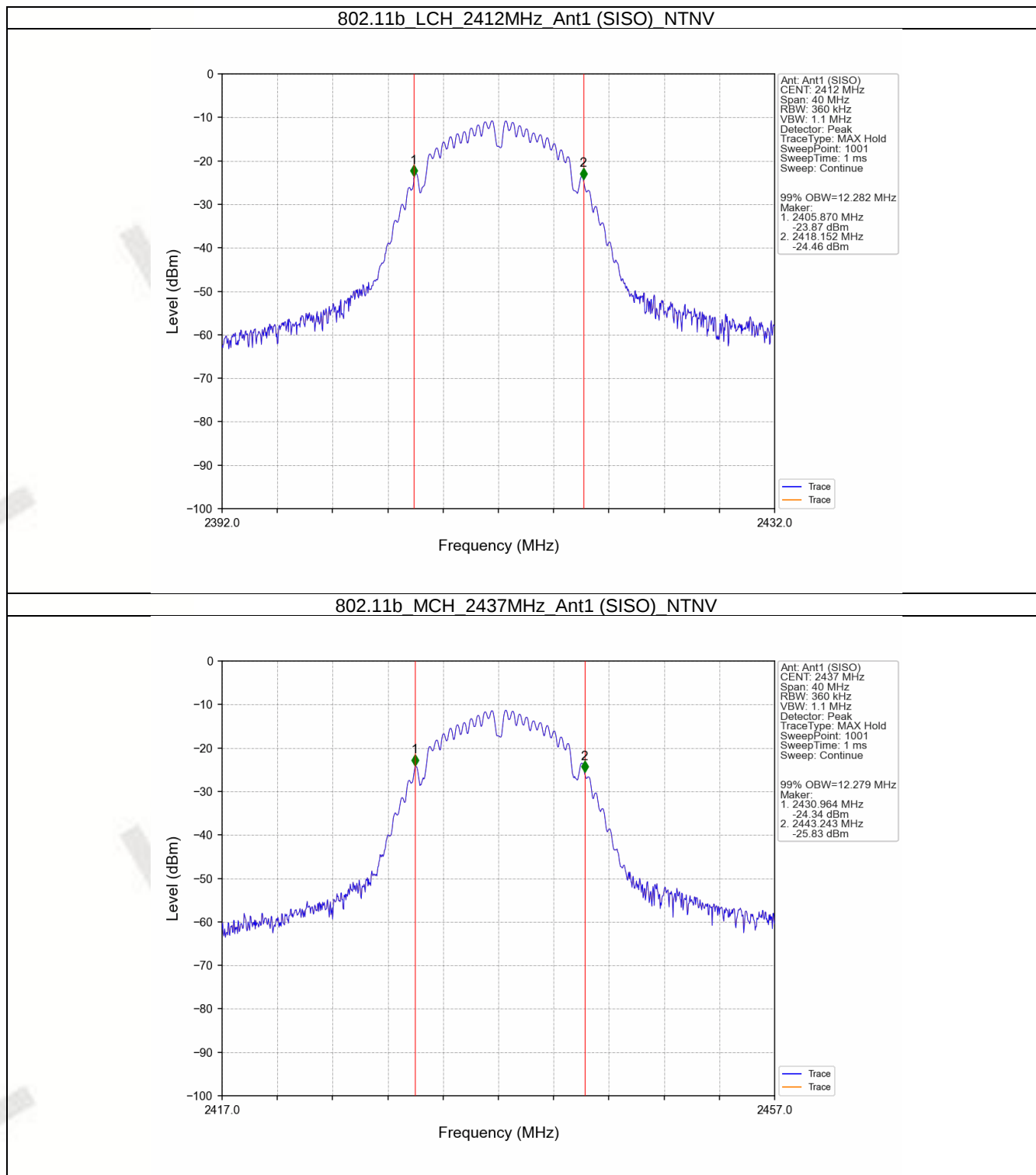
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.282	/	Pass
		2437	1	12.279	/	Pass
		2462	1	12.390	/	Pass
802.11g	SISO	2412	1	16.943	/	Pass
		2437	1	16.932	/	Pass
		2462	1	16.989	/	Pass
802.11n (HT20)	SISO	2412	1	17.721	/	Pass
		2437	1	17.724	/	Pass
		2462	1	17.777	/	Pass
802.11n (HT40)	SISO	2422	1	36.433	/	Pass
		2437	1	36.105	/	Pass
		2452	1	36.174	/	Pass

2.1.2 6dB BW

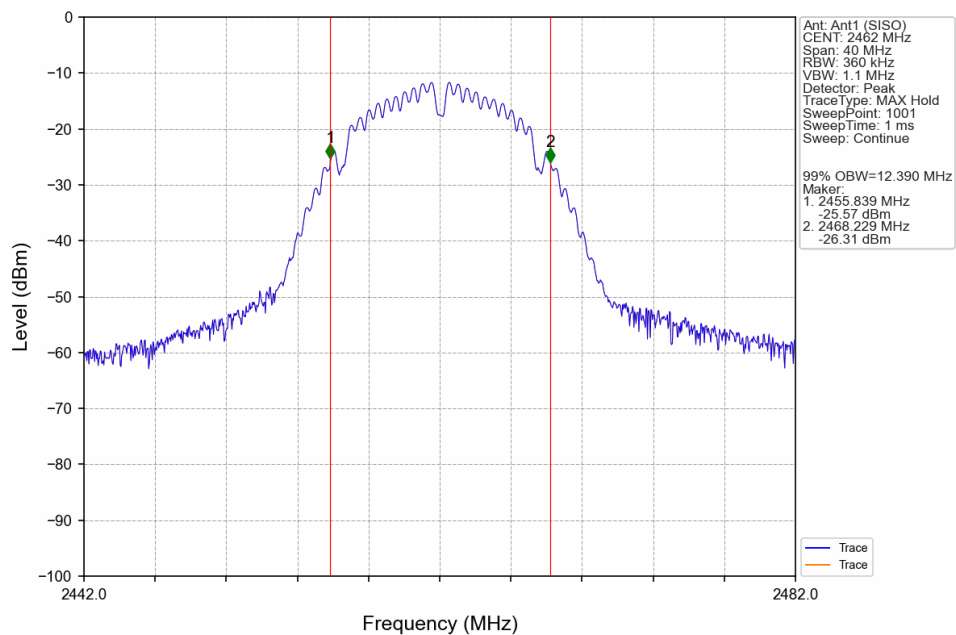
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.096	≥ 0.5	Pass
		2437	1	8.548	≥ 0.5	Pass
		2462	1	8.102	≥ 0.5	Pass
802.11g	SISO	2412	1	15.143	≥ 0.5	Pass
		2437	1	15.138	≥ 0.5	Pass
		2462	1	15.161	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.129	≥ 0.5	Pass
		2437	1	15.123	≥ 0.5	Pass
		2462	1	15.150	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.180	≥ 0.5	Pass
		2437	1	35.118	≥ 0.5	Pass
		2452	1	35.133	≥ 0.5	Pass

2.2 Test Graph

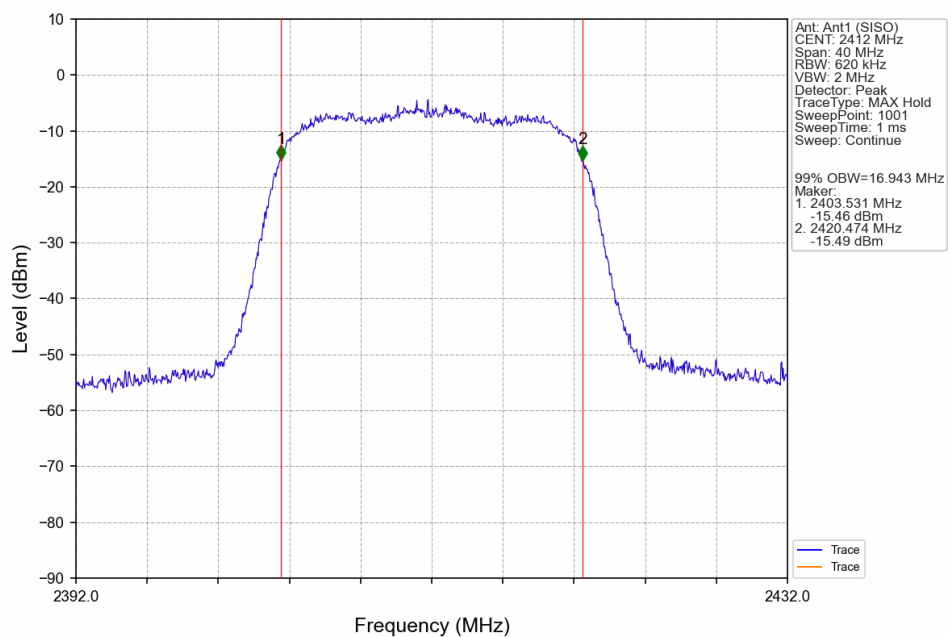
2.2.1 OBW



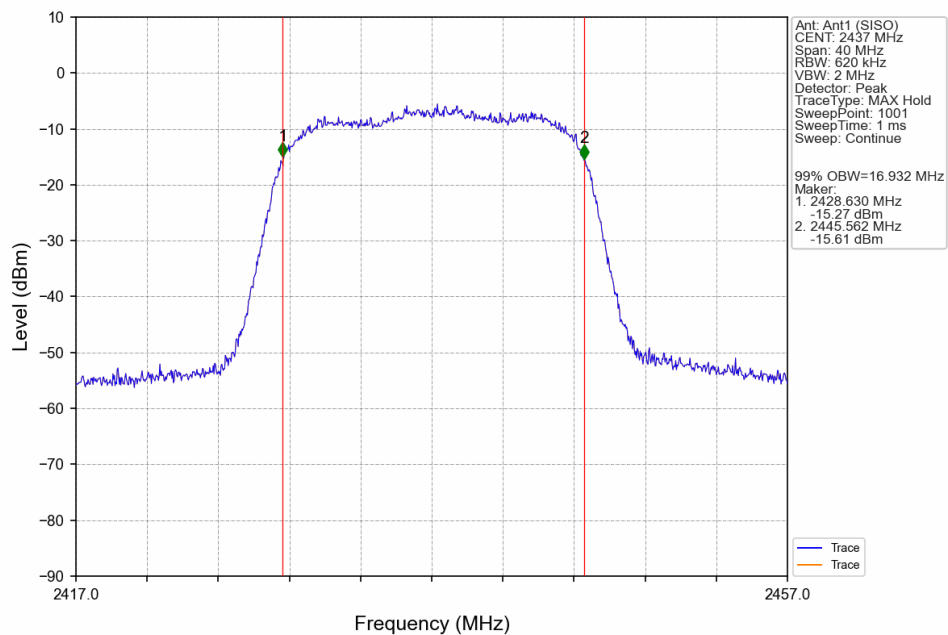
802.11b HCH 2462MHz Ant1 (SISO) NTN



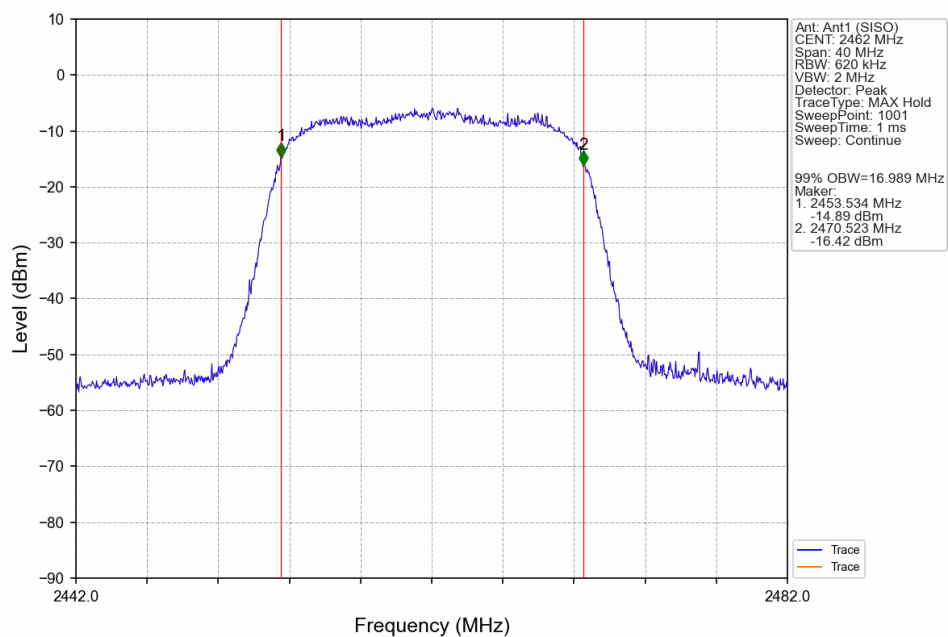
802.11g LCH 2412MHz Ant1 (SISO) NTN



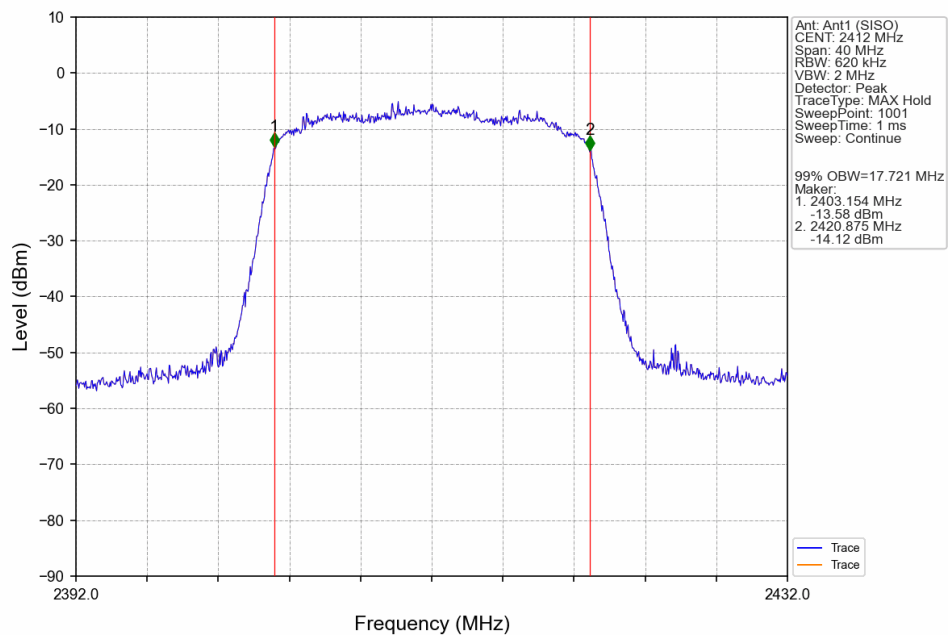
802.11g MCH 2437MHz Ant1 (SISO) NTN



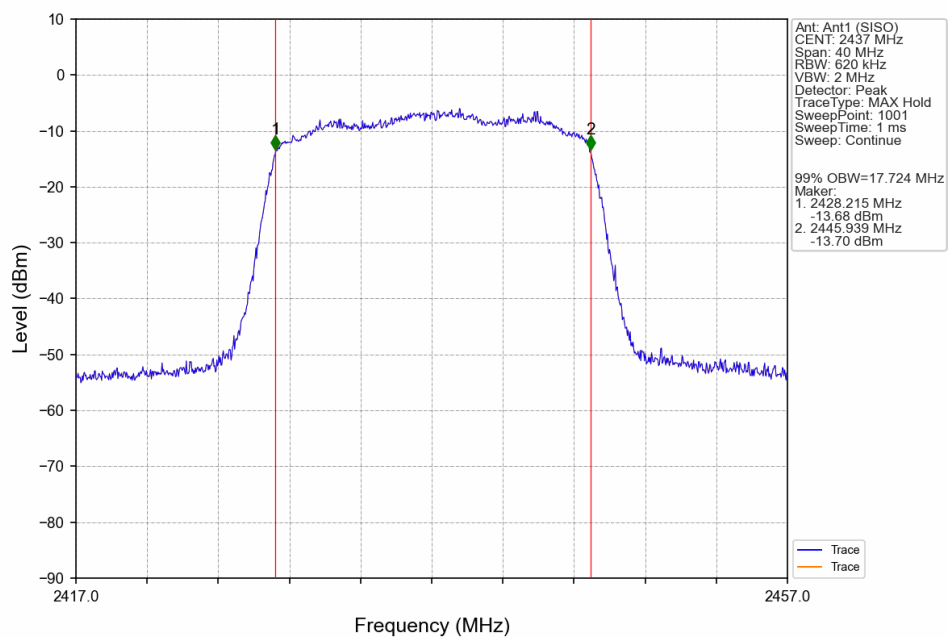
802.11g HCH 2462MHz Ant1 (SISO) NTN



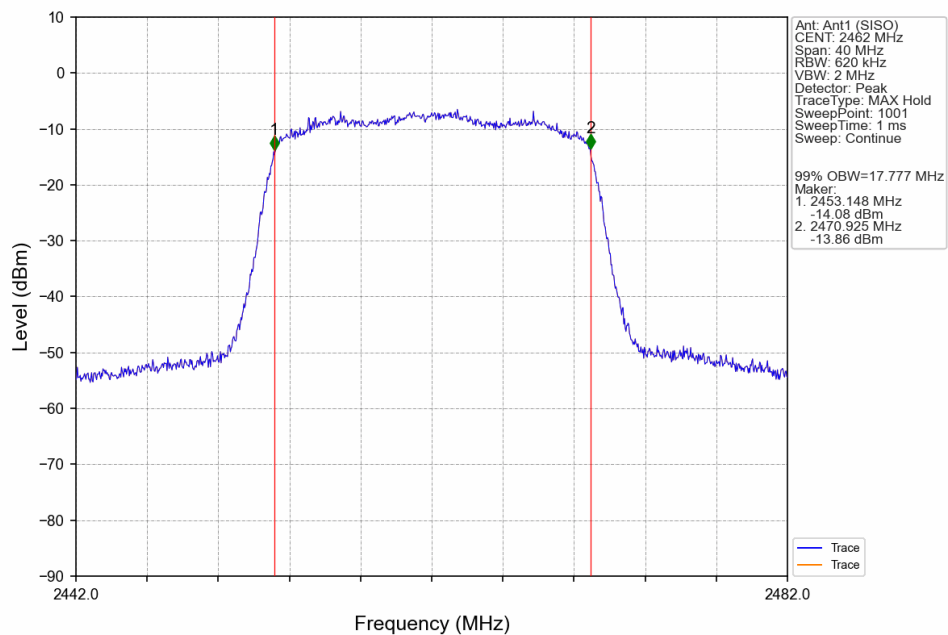
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



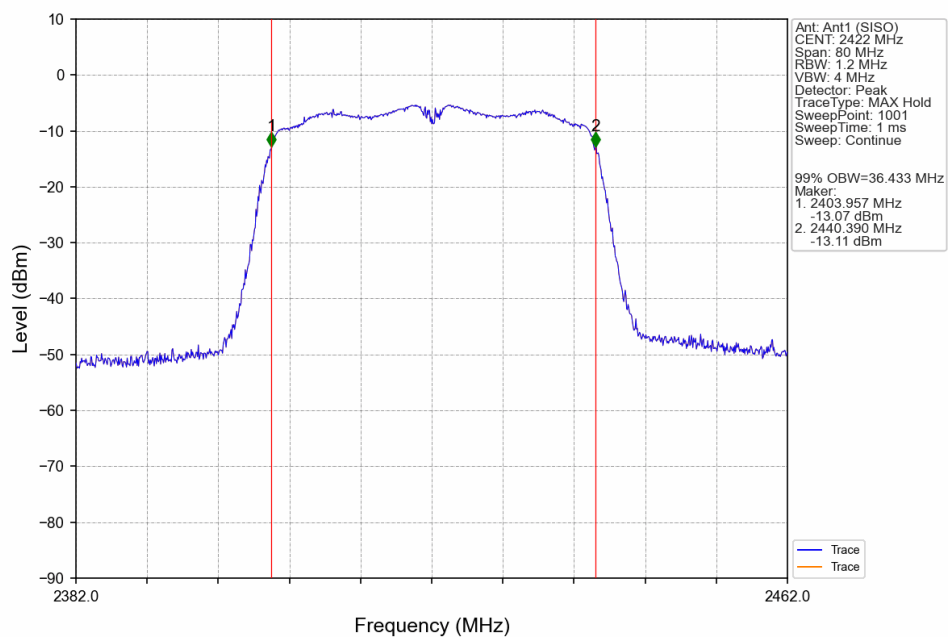
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



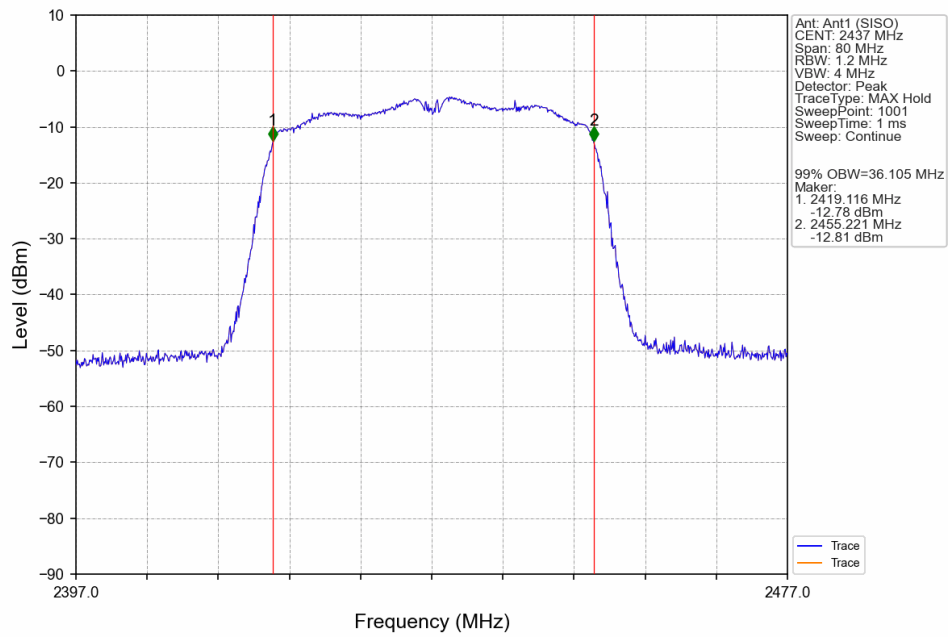
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



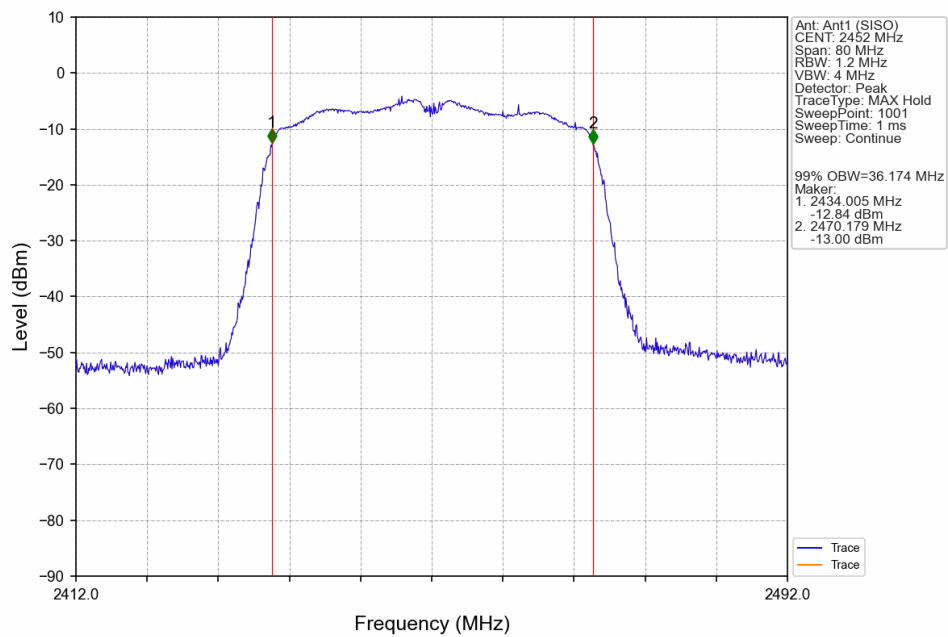
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



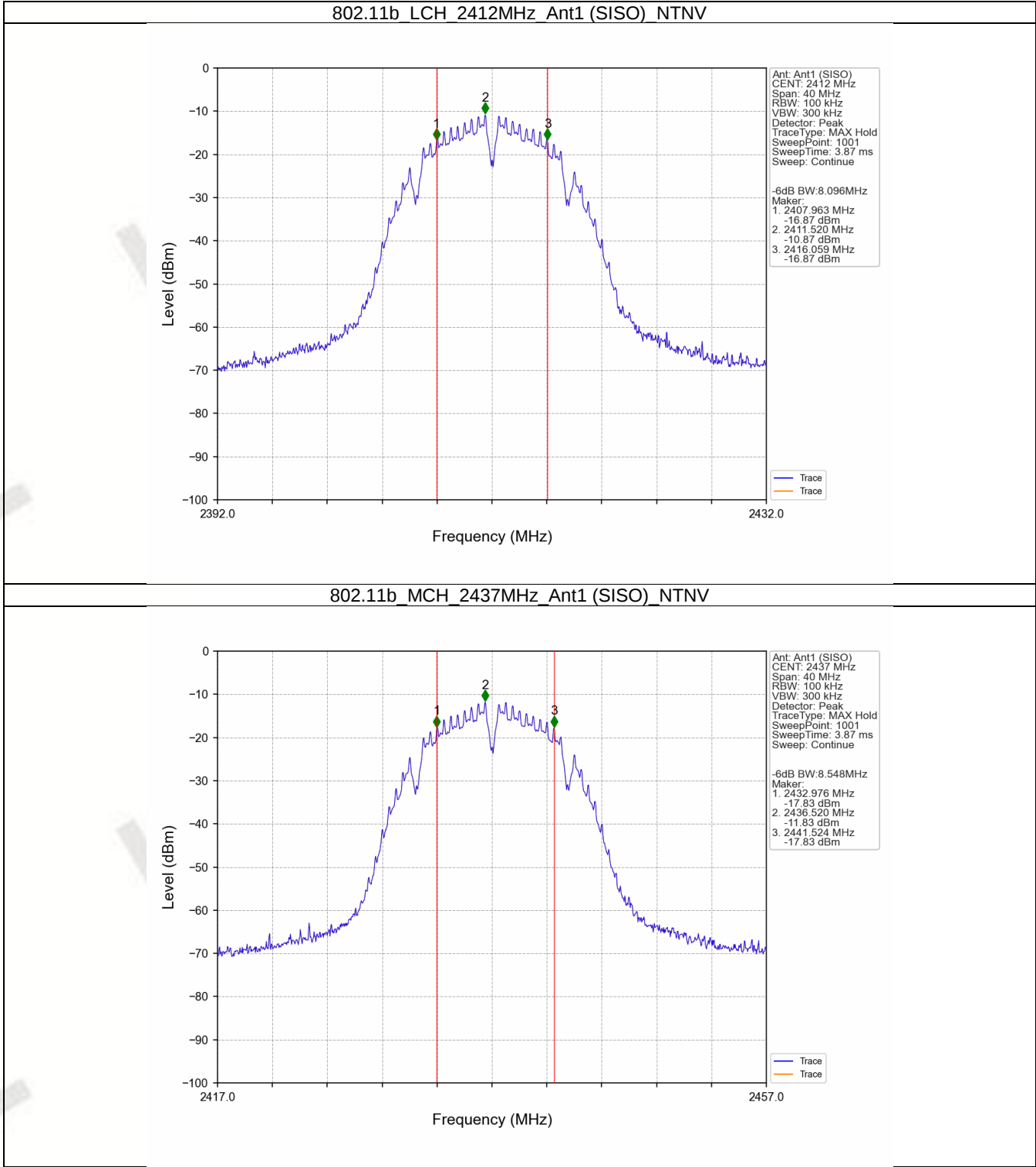
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



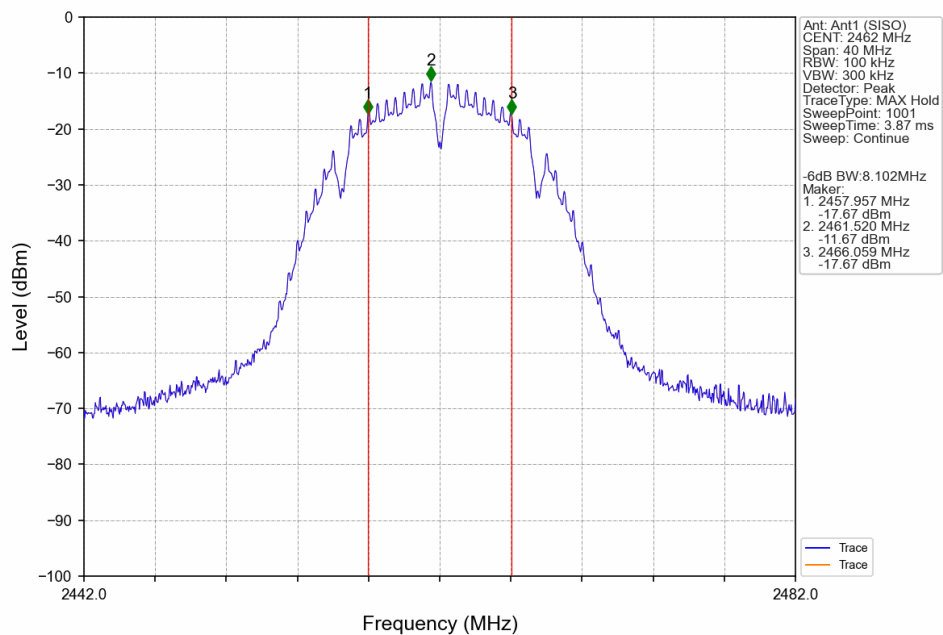
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



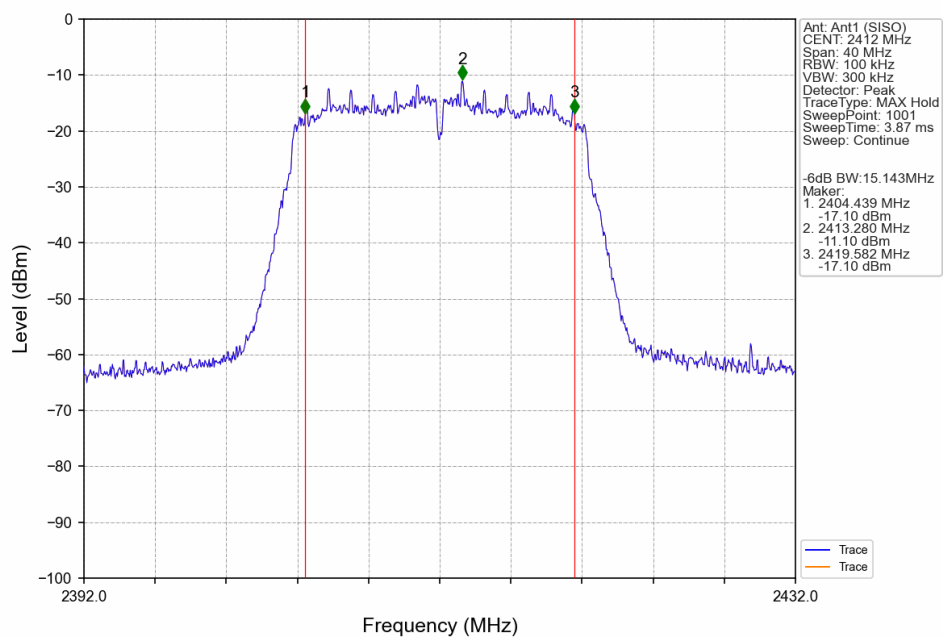
2.2.2 6dB BW



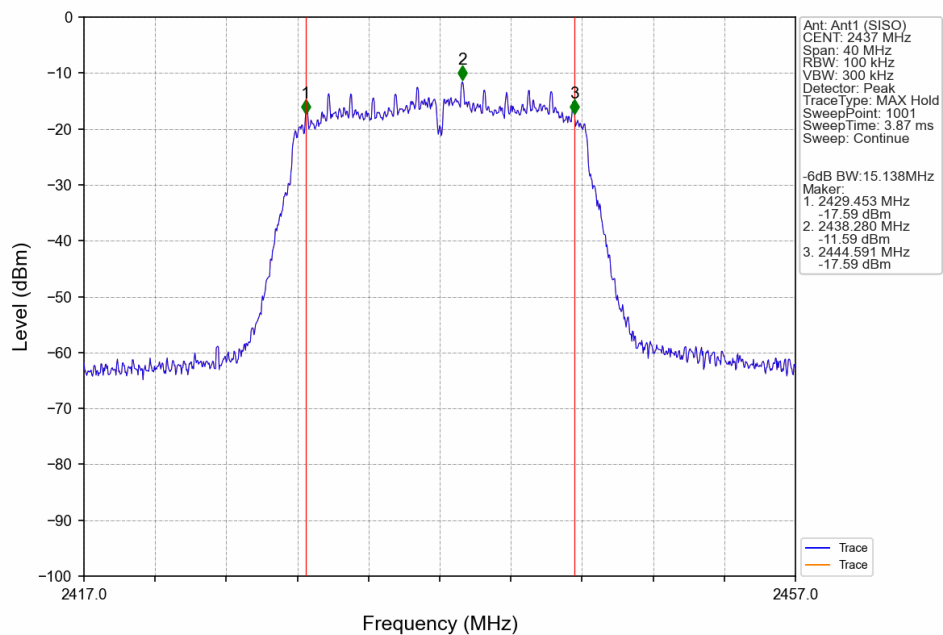
802.11b HCH 2462MHz Ant1 (SISO) NTN



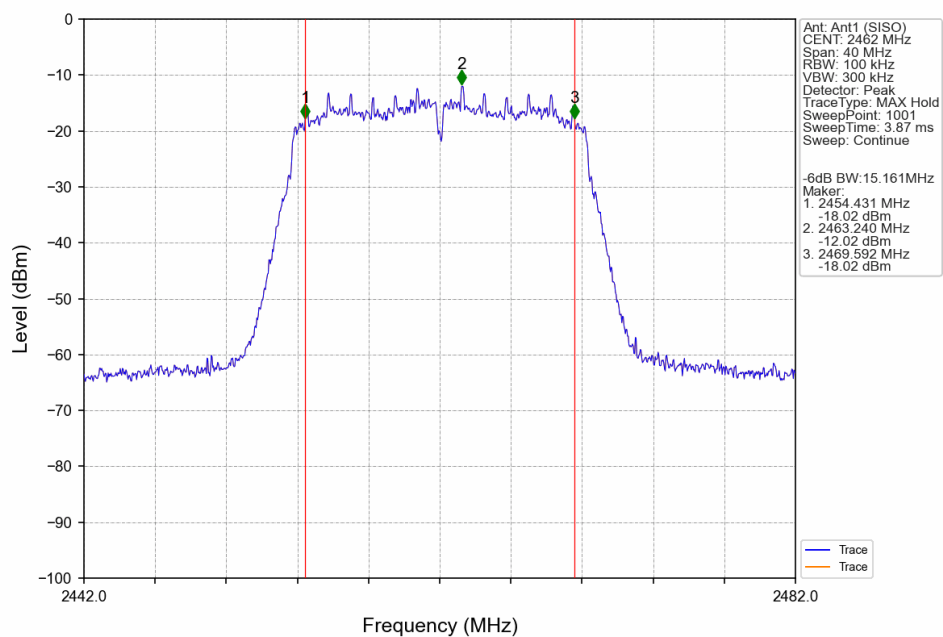
802.11g LCH 2412MHz Ant1 (SISO) NTN



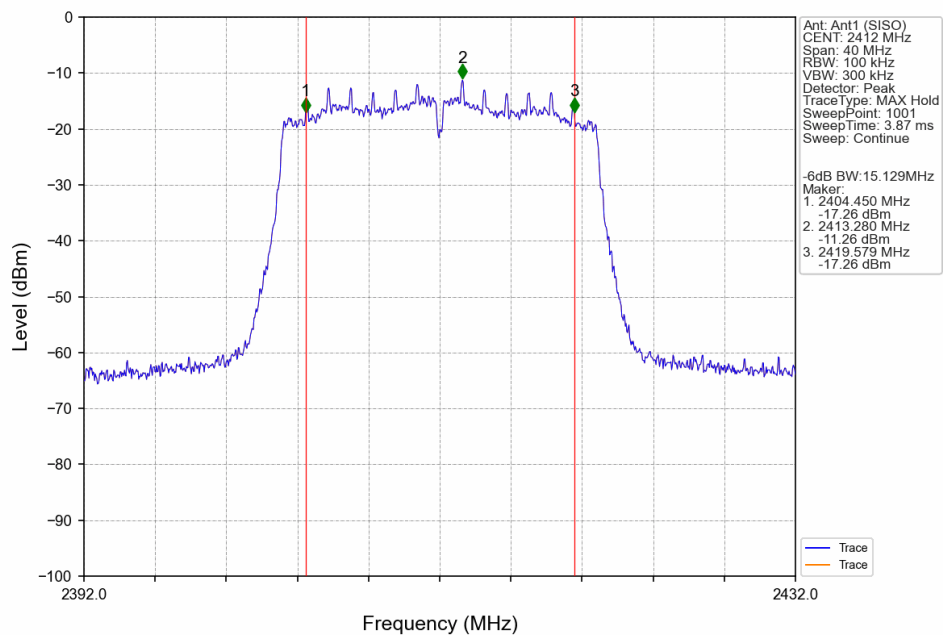
802.11g MCH 2437MHz Ant1 (SISO) NTN



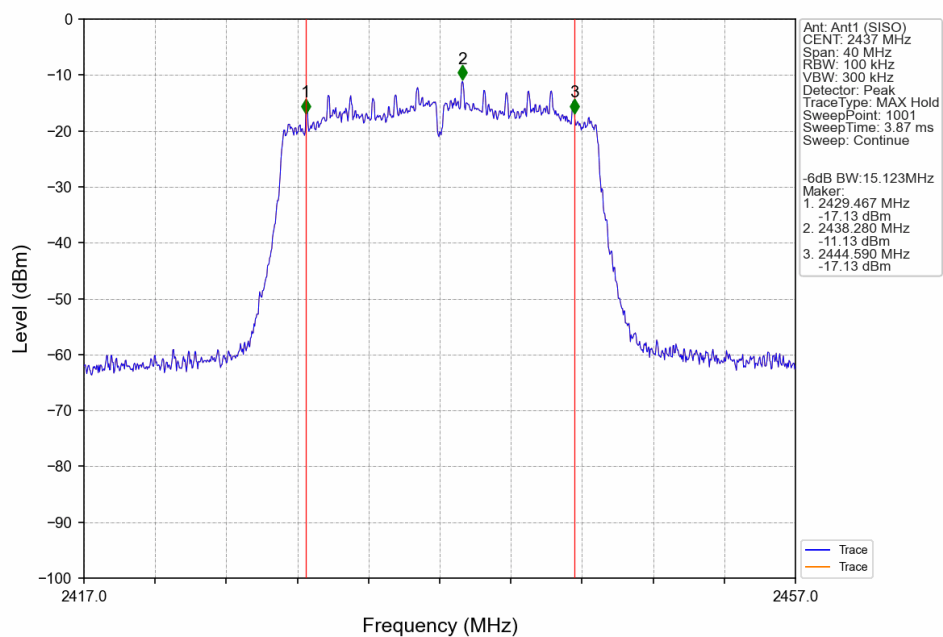
802.11g HCH 2462MHz Ant1 (SISO) NTN



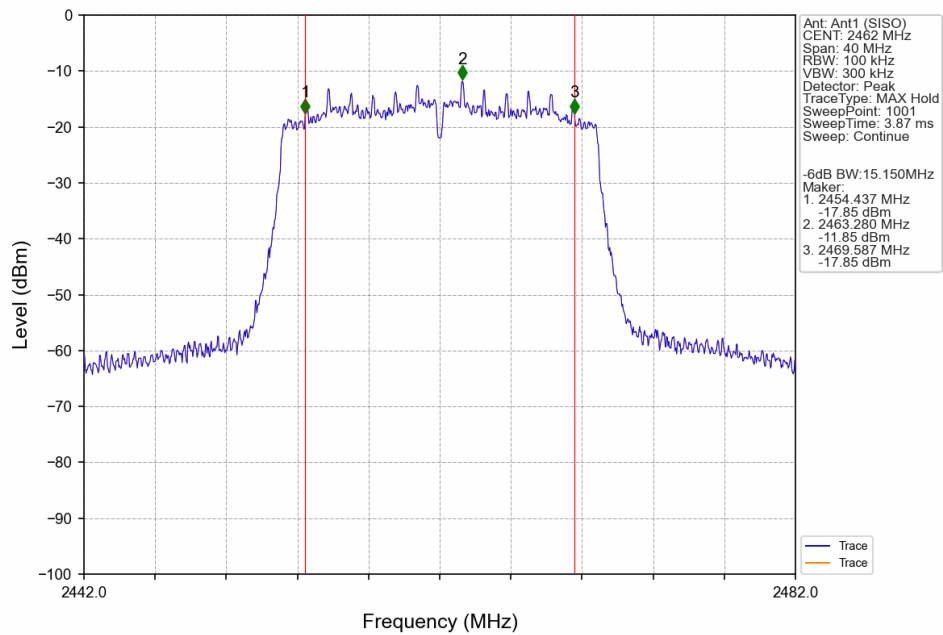
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



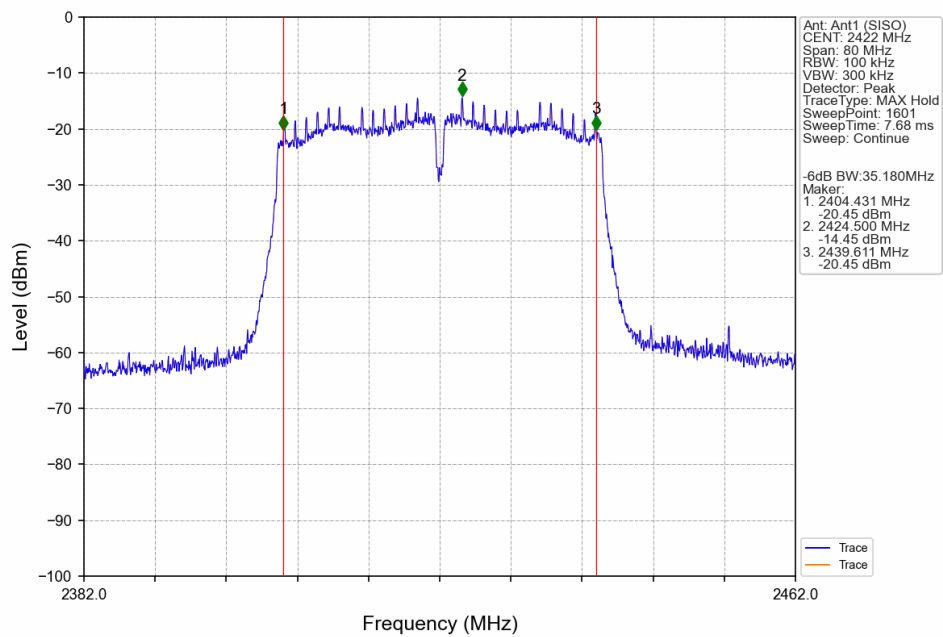
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



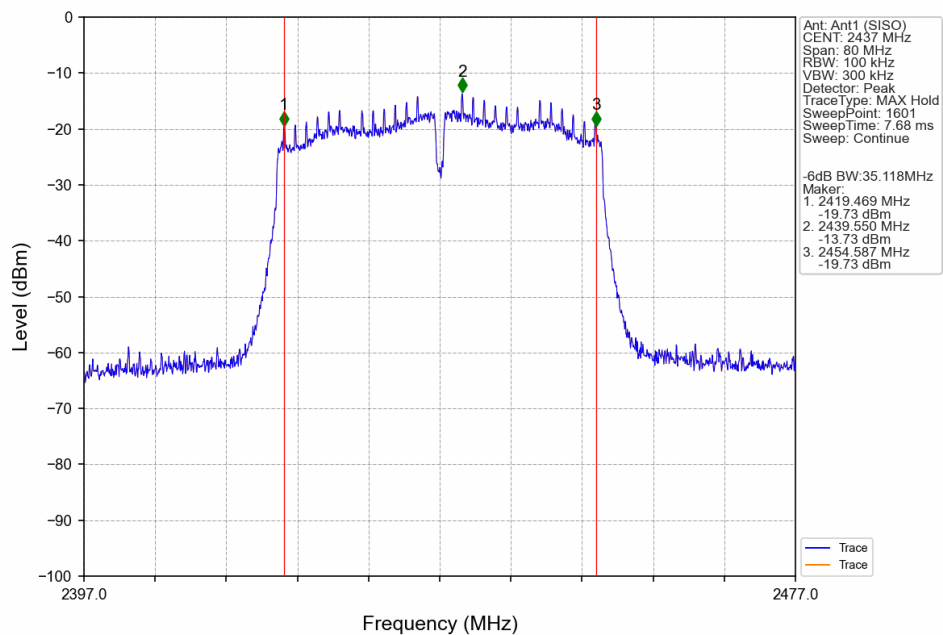
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



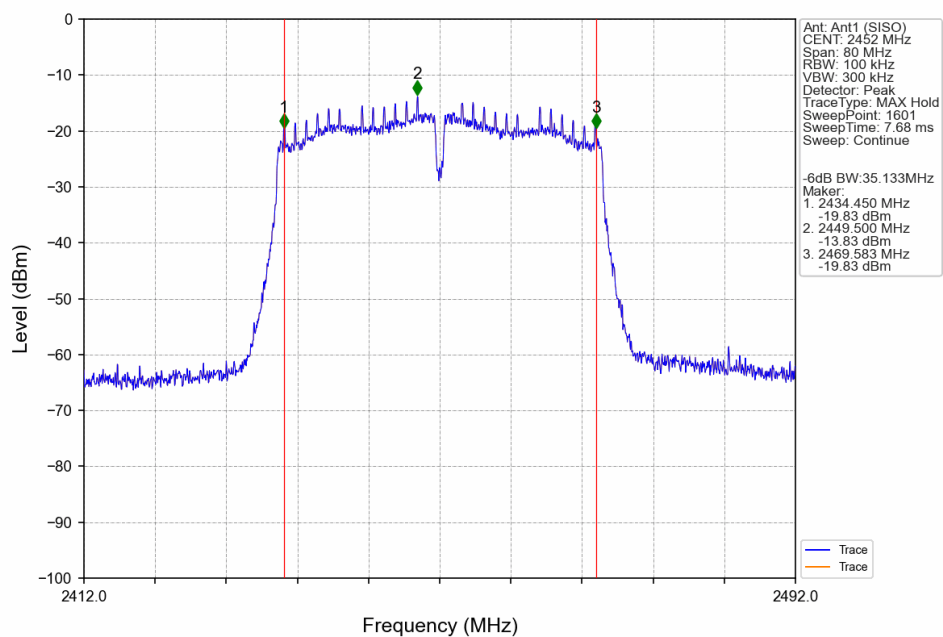
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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



3. Maximum Conducted Output Power

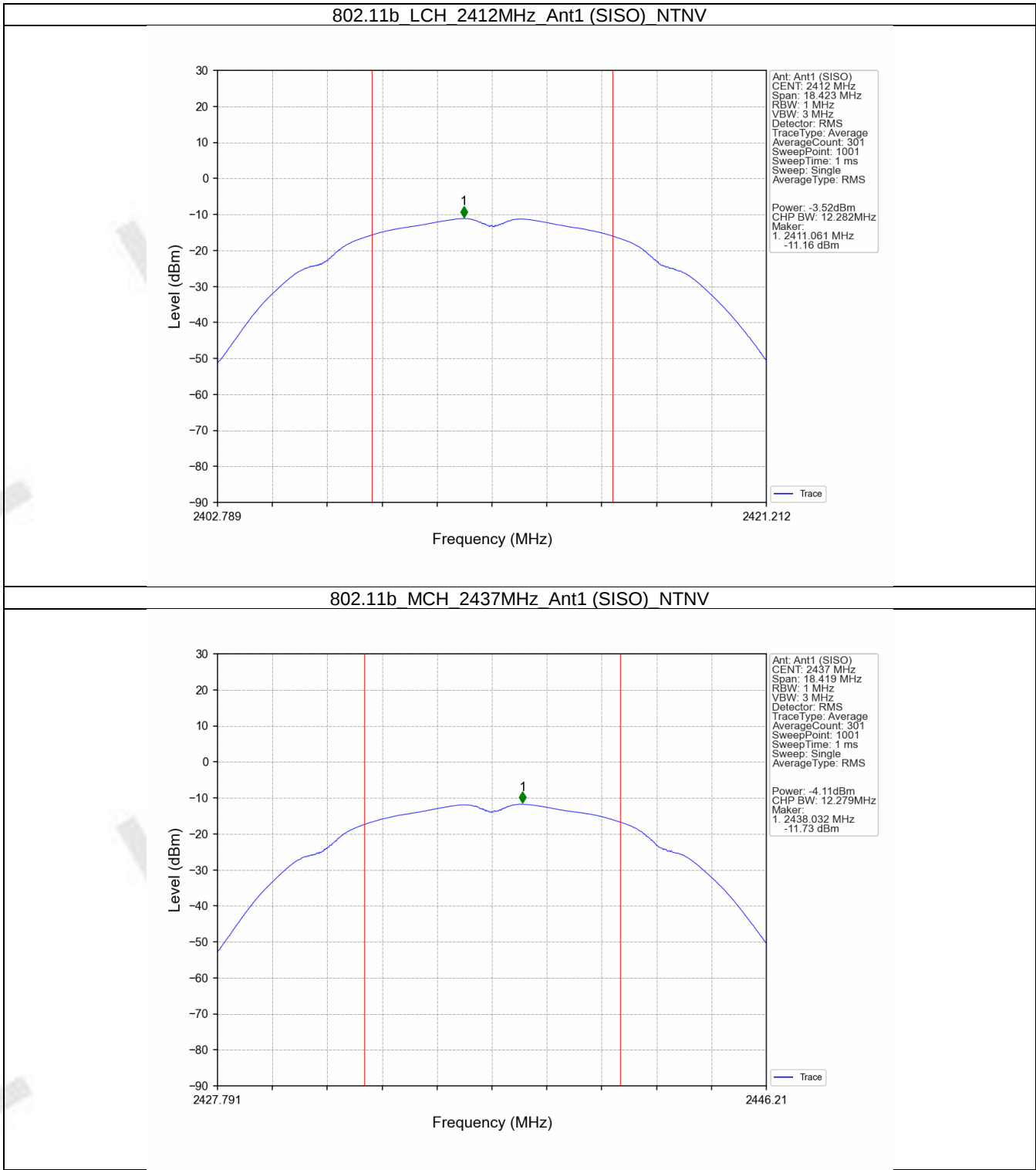
3.1 Test Result

3.1.1 Power

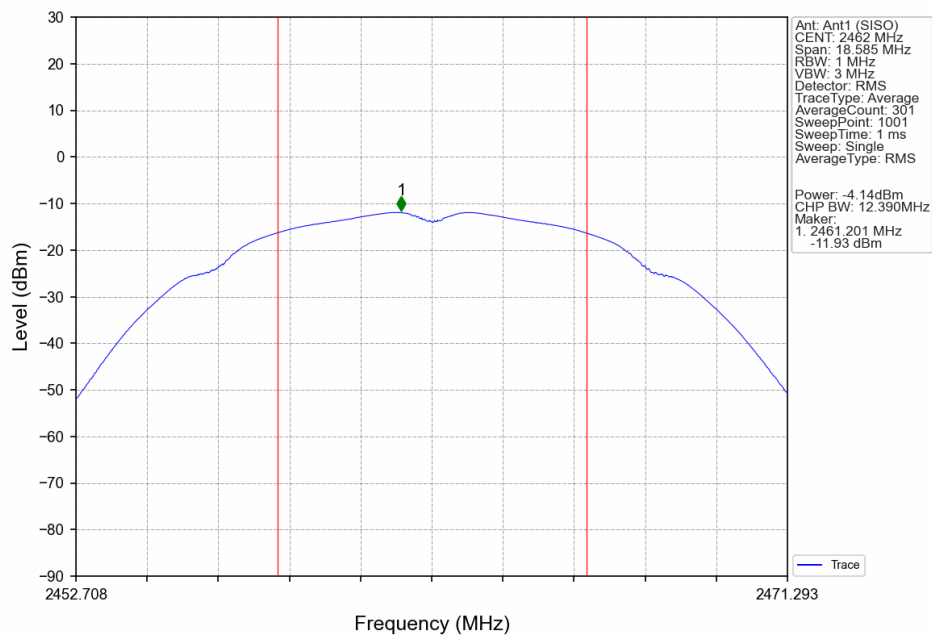
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-3.52	<=30	Pass
		2437	-4.11	<=30	Pass
		2462	-4.14	<=30	Pass
802.11g	SISO	2412	-1.14	<=30	Pass
		2437	-1.79	<=30	Pass
		2462	-1.66	<=30	Pass
802.11n (HT20)	SISO	2412	-1.42	<=30	Pass
		2437	-1.46	<=30	Pass
		2462	-1.94	<=30	Pass
802.11n (HT40)	SISO	2422	-1.43	<=30	Pass
		2437	-1.34	<=30	Pass
		2452	-1.39	<=30	Pass
Note1: Antenna Gain: Ant1: 2.78dBi;					

3.2 Test Graph

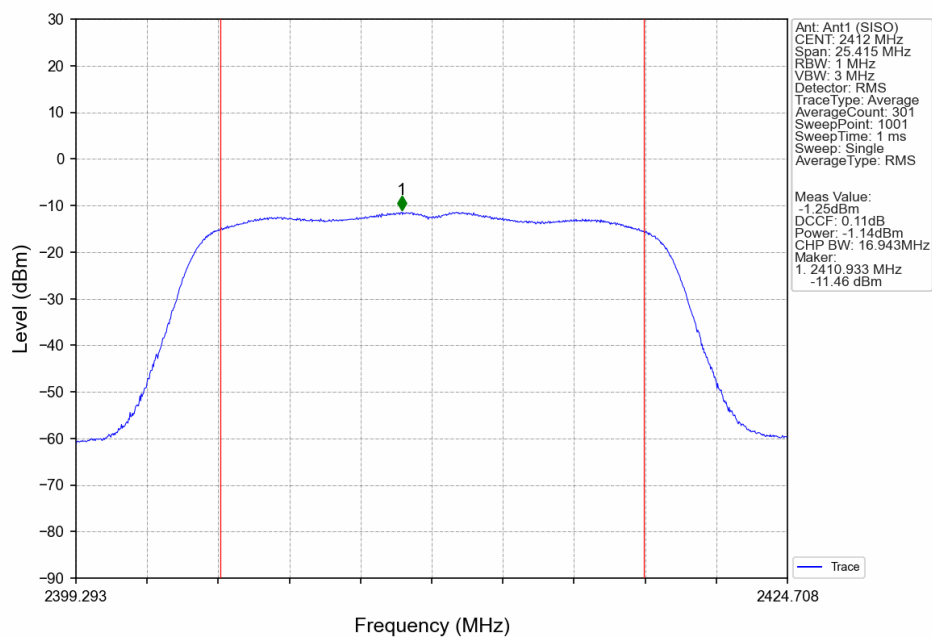
3.2.1 Power



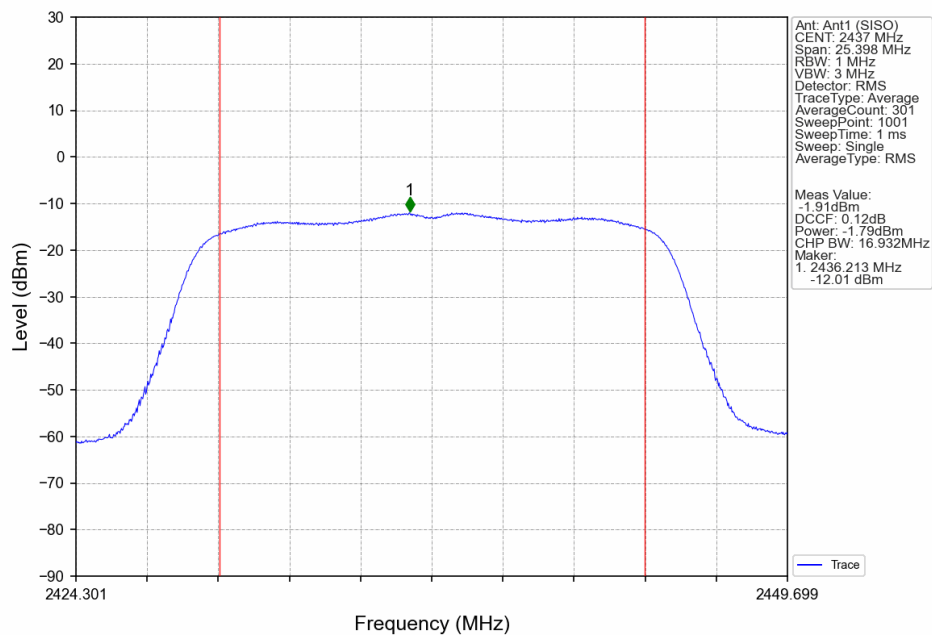
802.11b HCH 2462MHz Ant1 (SISO) NTN



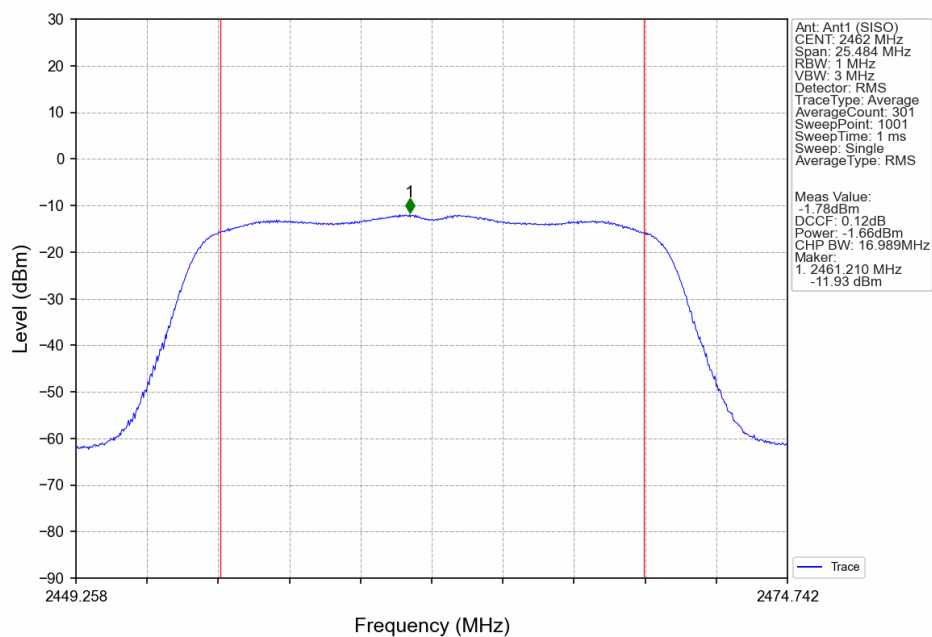
802.11g LCH 2412MHz Ant1 (SISO) NTN



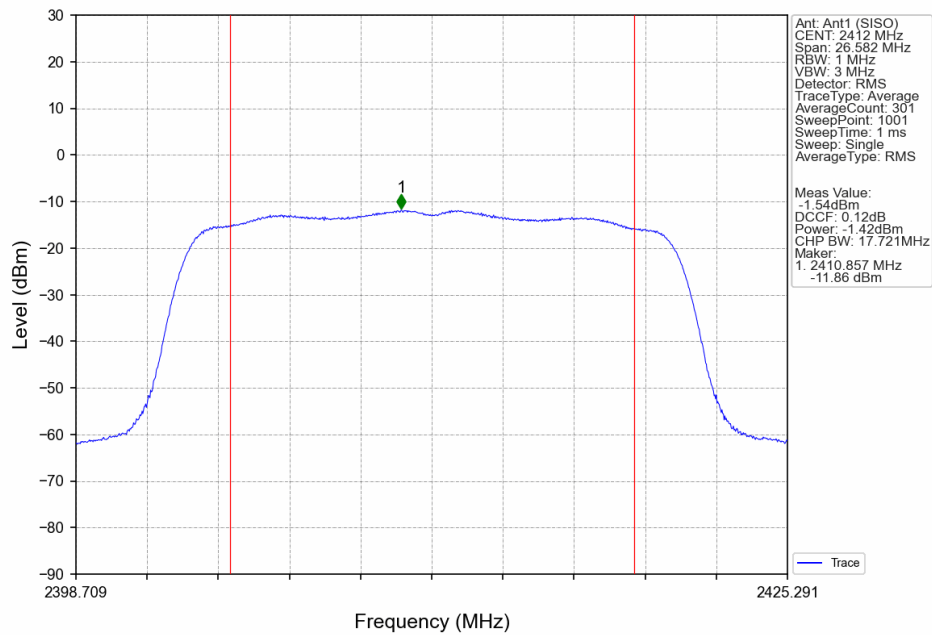
802.11g MCH 2437MHz Ant1 (SISO) NTNV



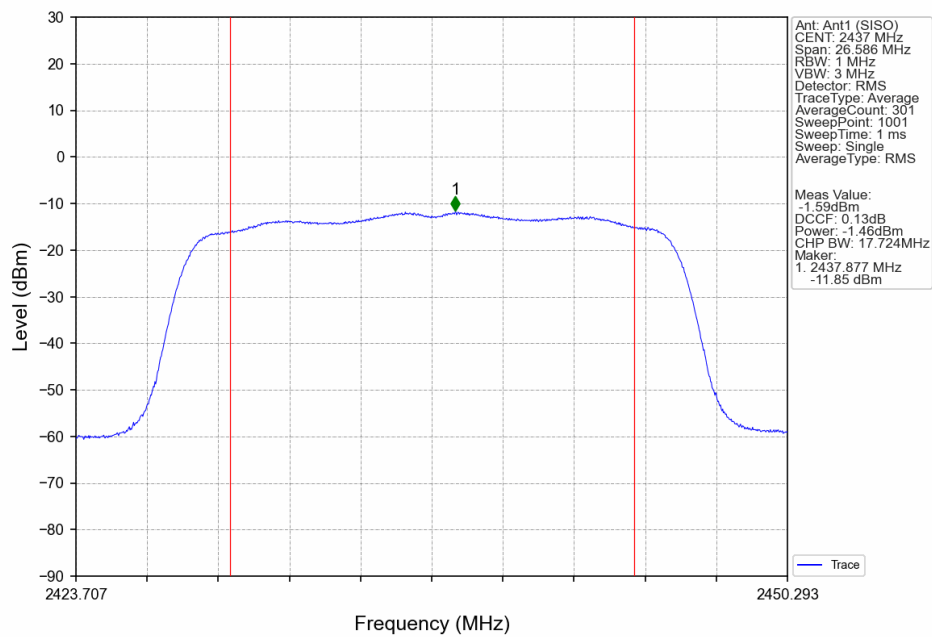
802.11g HCH 2462MHz Ant1 (SISO) NTNV



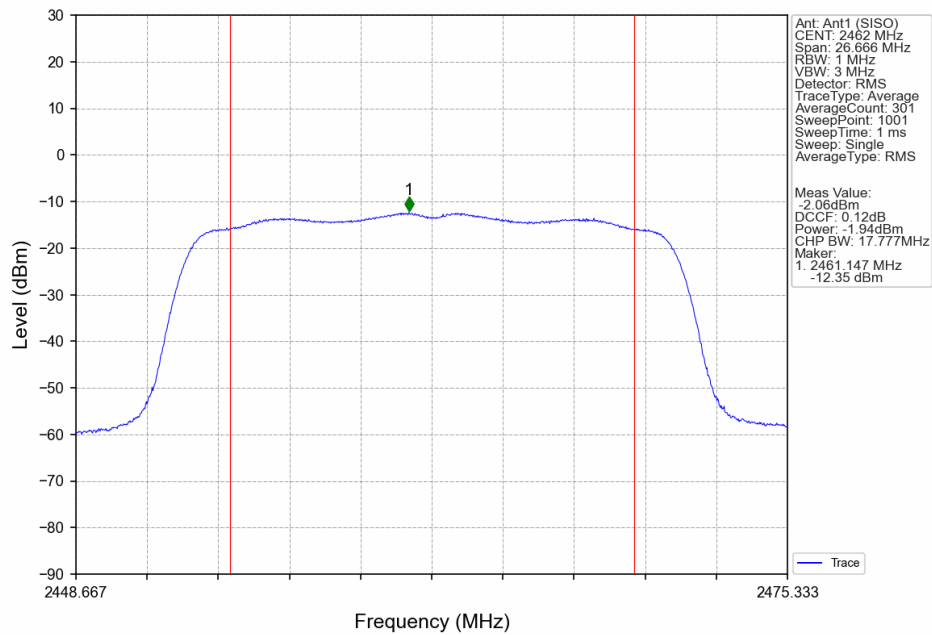
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



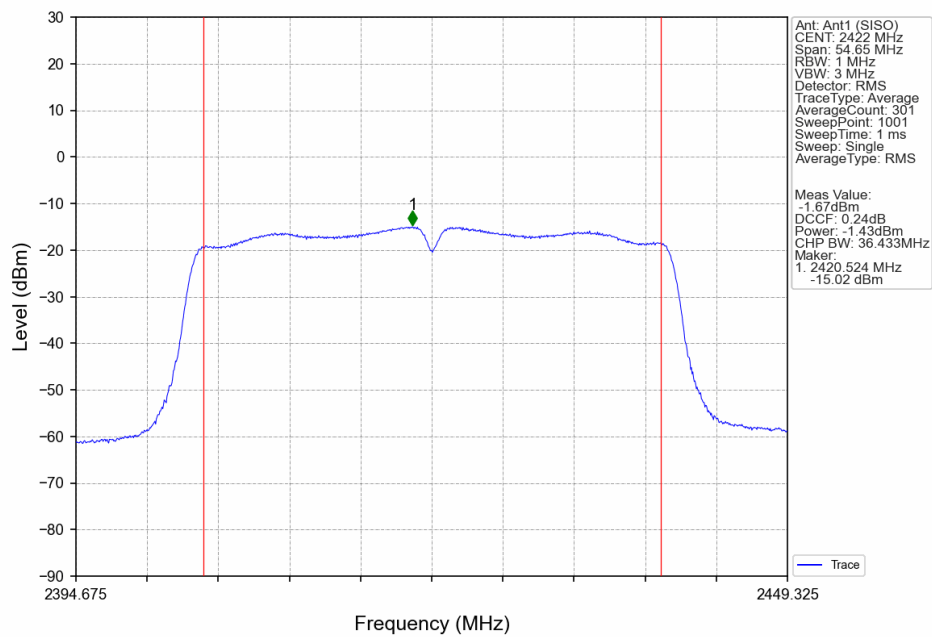
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



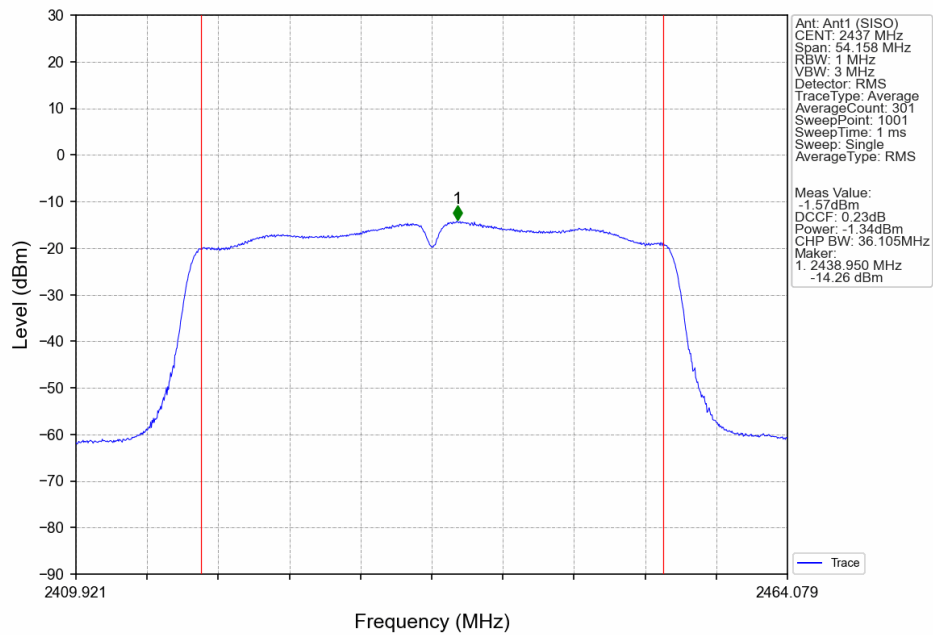
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



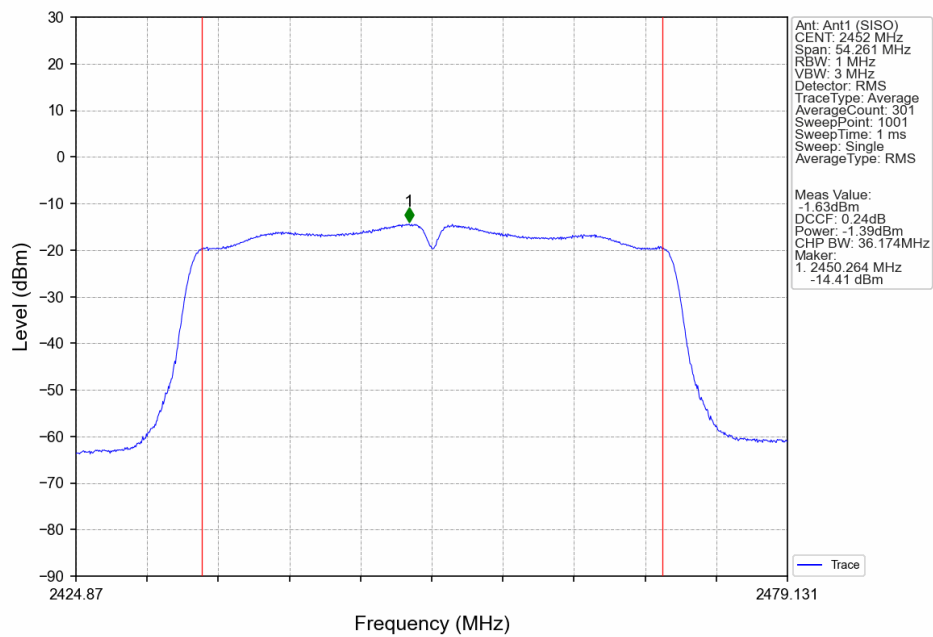
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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



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



4. Maximum Power Spectral Density

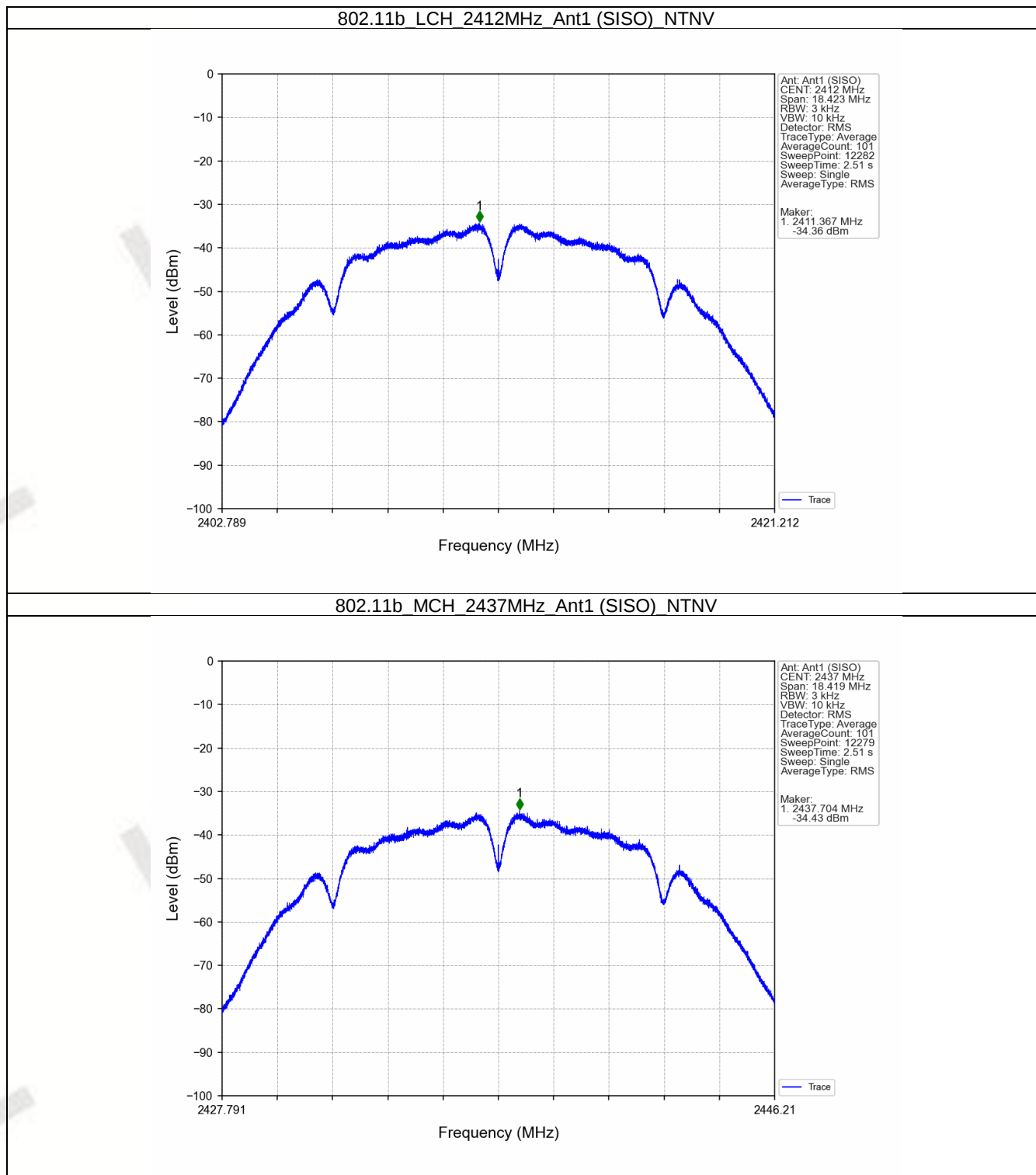
4.1 Test Result

4.1.1 PSD

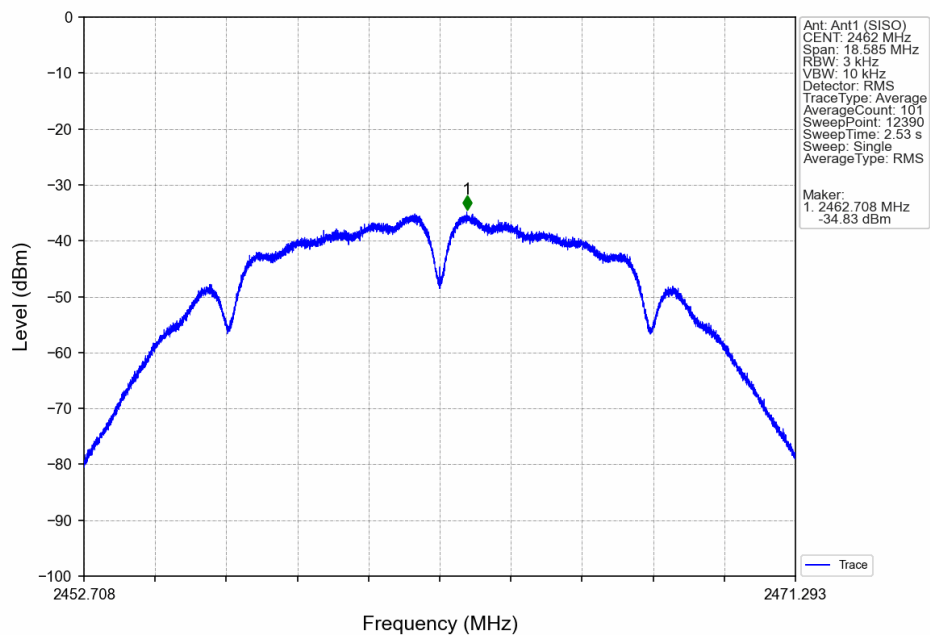
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-34.36	<=8	Pass
		2437	-34.43	<=8	Pass
		2462	-34.83	<=8	Pass
802.11g	SISO	2412	-33.94	<=8	Pass
		2437	-34.47	<=8	Pass
		2462	-34.93	<=8	Pass
802.11n (HT20)	SISO	2412	-34.28	<=8	Pass
		2437	-34.16	<=8	Pass
		2462	-34.86	<=8	Pass
802.11n (HT40)	SISO	2422	-36.32	<=8	Pass
		2437	-35.92	<=8	Pass
		2452	-35.68	<=8	Pass
Note1: Antenna Gain: Ant1: 2.78dBi;					

4.2 Test Graph

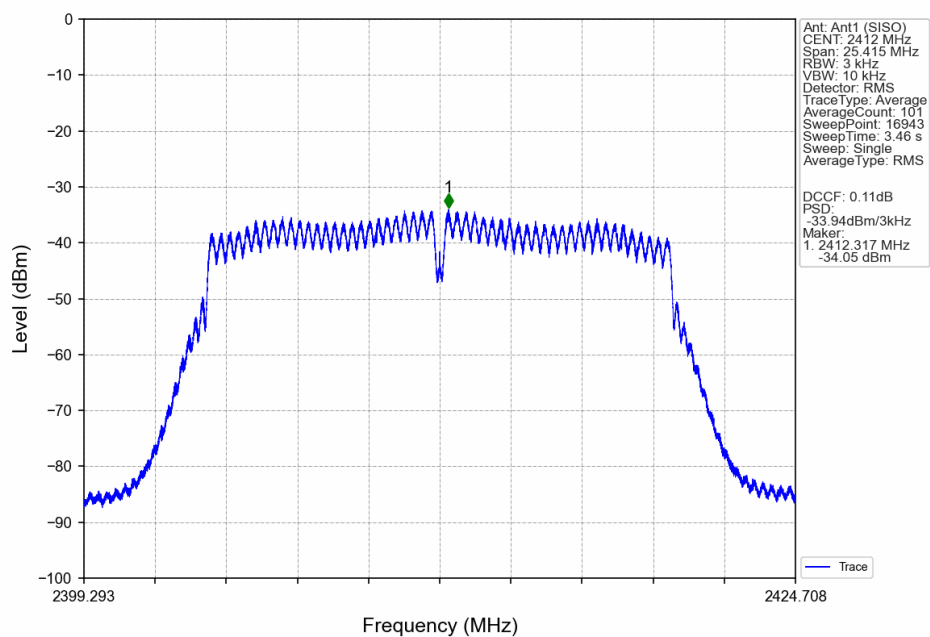
4.2.1 PSD



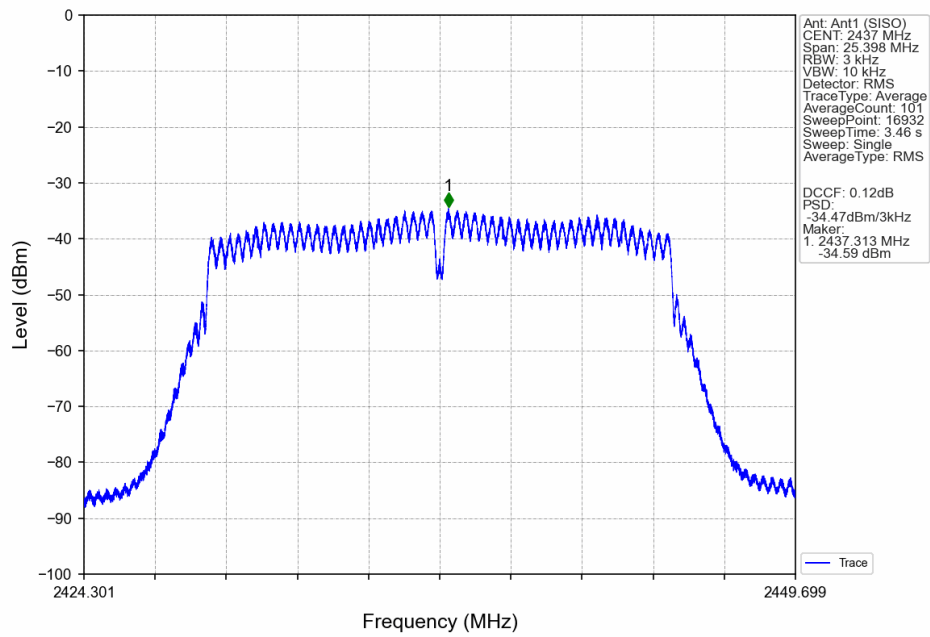
802.11b HCH 2462MHz Ant1 (SISO) NTN



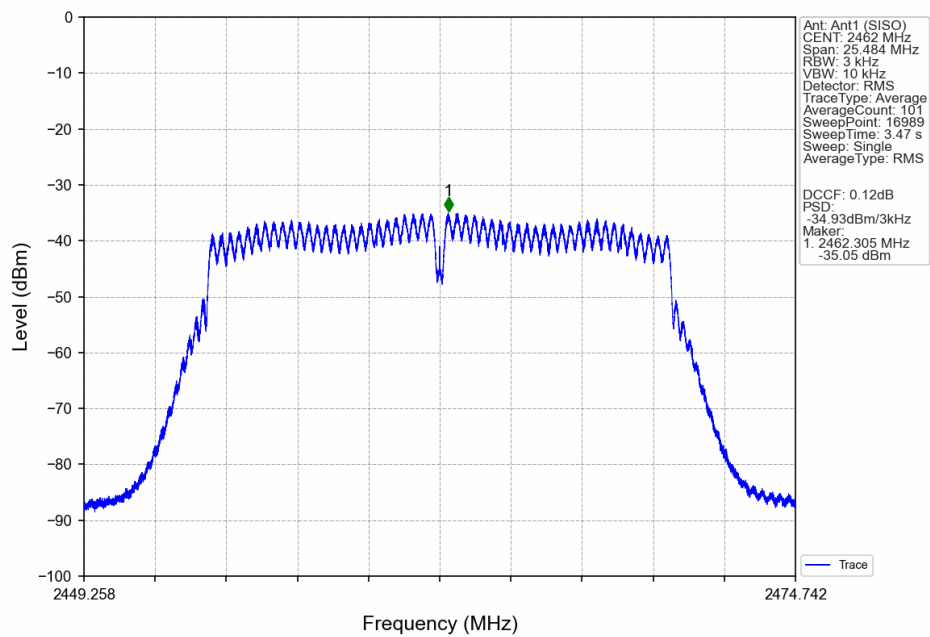
802.11g LCH 2412MHz Ant1 (SISO) NTN



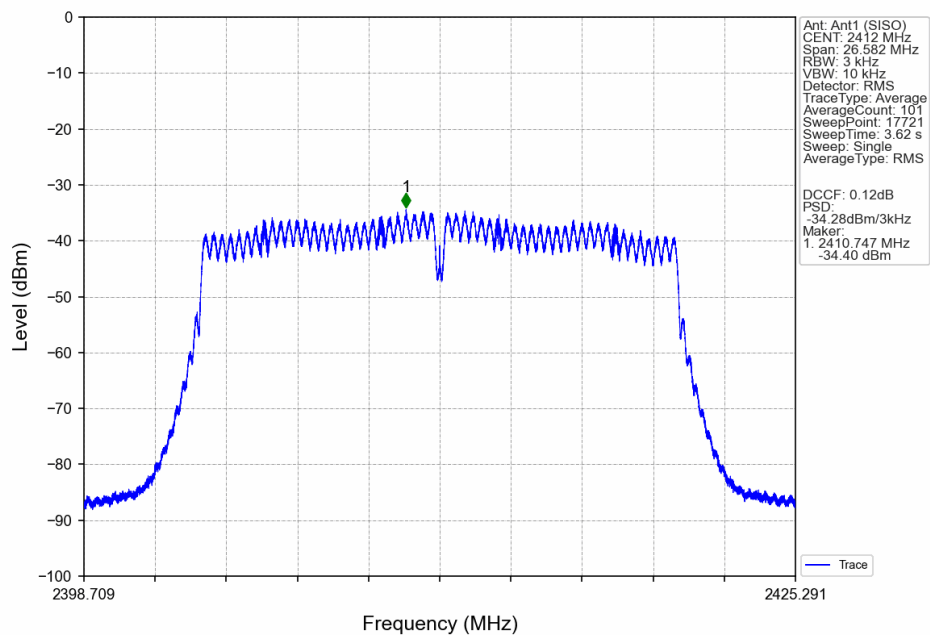
802.11g MCH 2437MHz Ant1 (SISO) NTNV



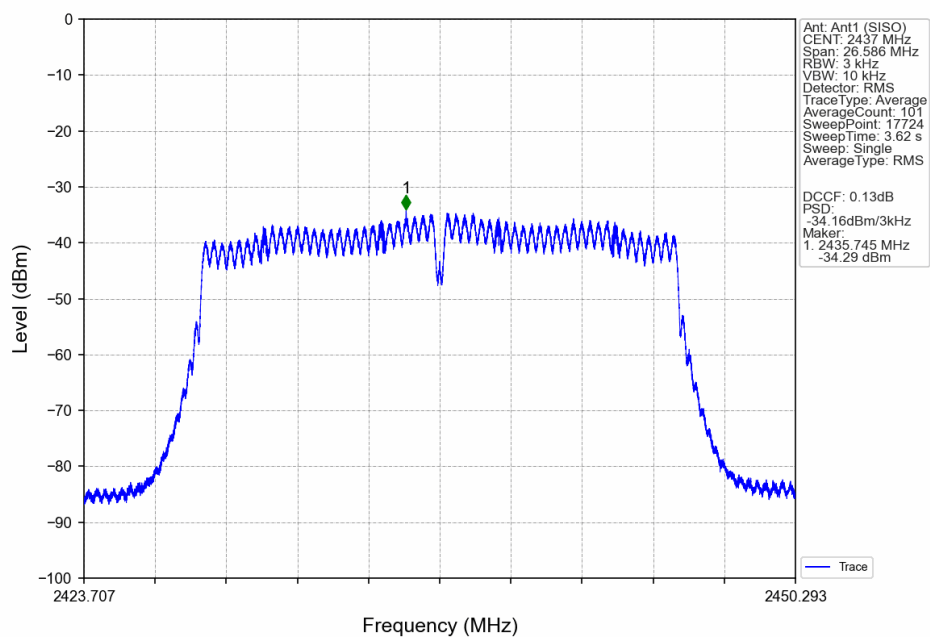
802.11g HCH 2462MHz Ant1 (SISO) NTNV



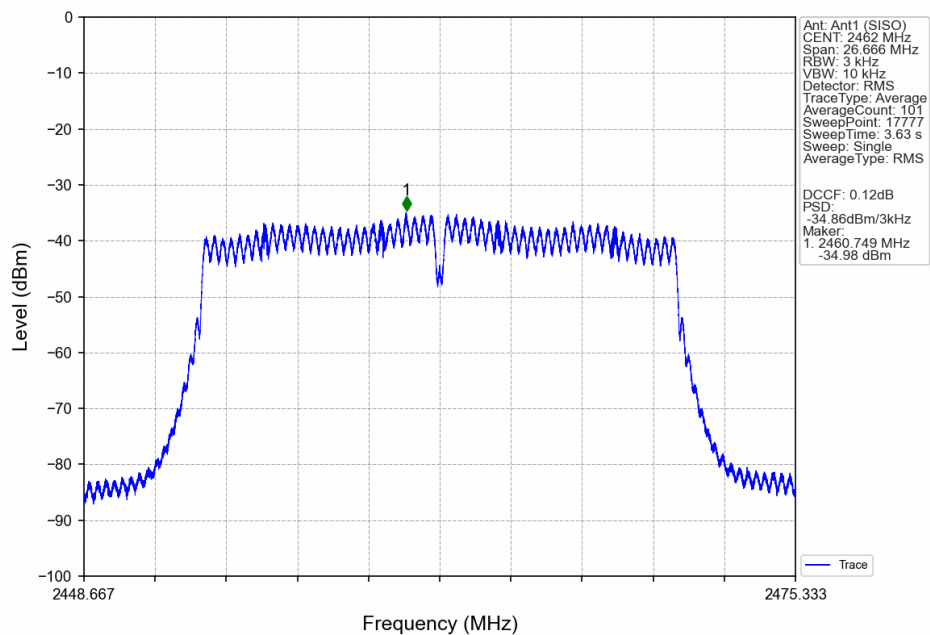
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



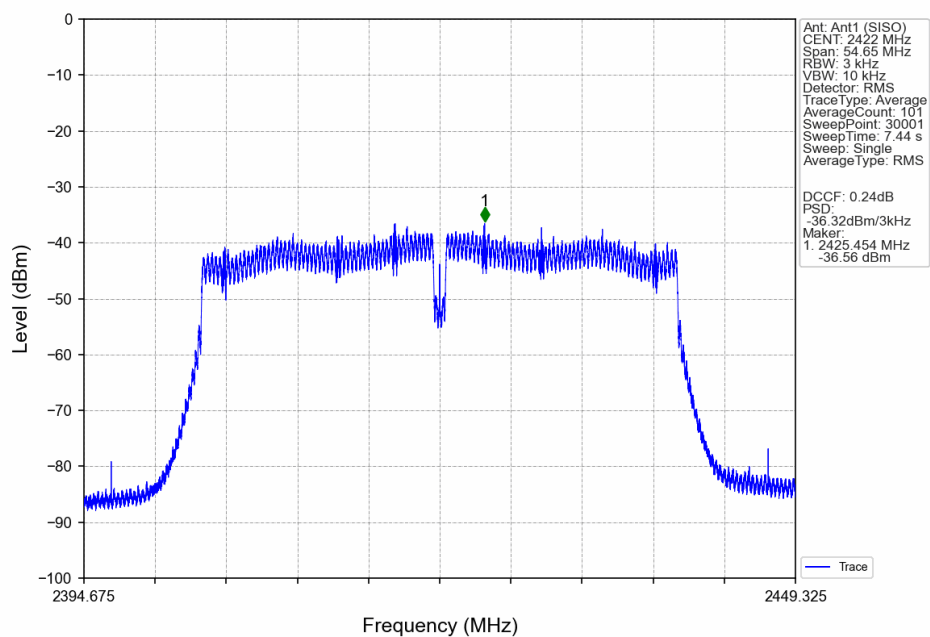
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



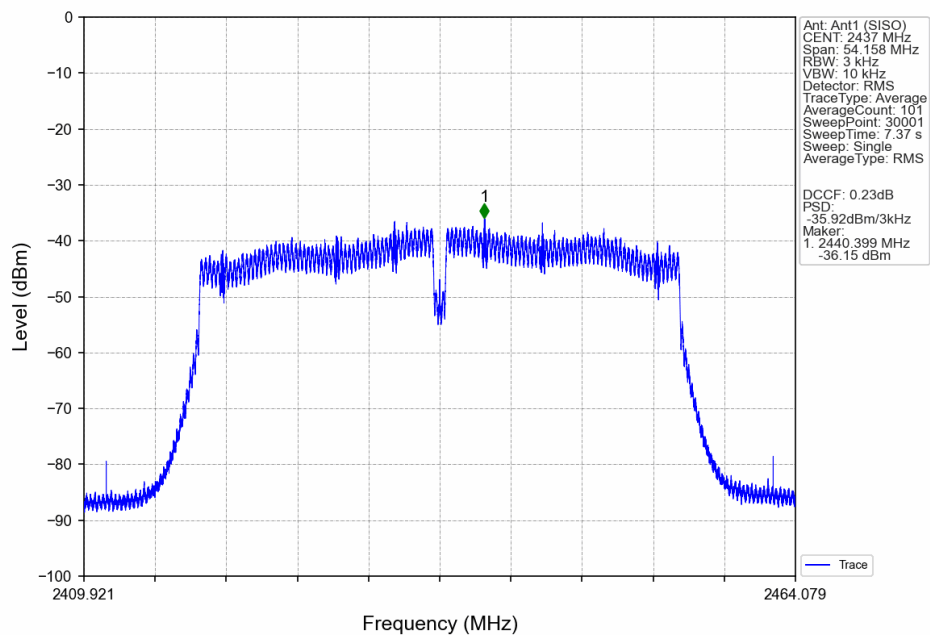
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



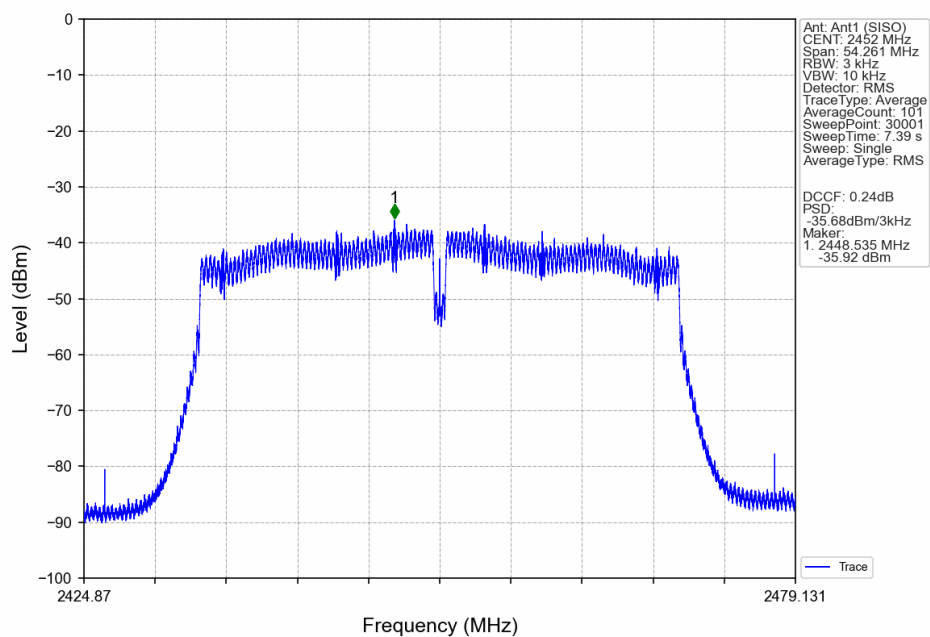
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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



802.11n(HT40) HCH 2452MHz 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	-11.04
		2437	1	-11.52
		2462	1	-11.83
802.11g	SISO	2412	1	-11.19
		2437	1	-11.47
		2462	1	-11.83
802.11n (HT20)	SISO	2412	1	-11.18
		2437	1	-11.26
		2462	1	-11.76
802.11n (HT40)	SISO	2422	1	-14.50
		2437	1	-13.89
		2452	1	-14.07

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.

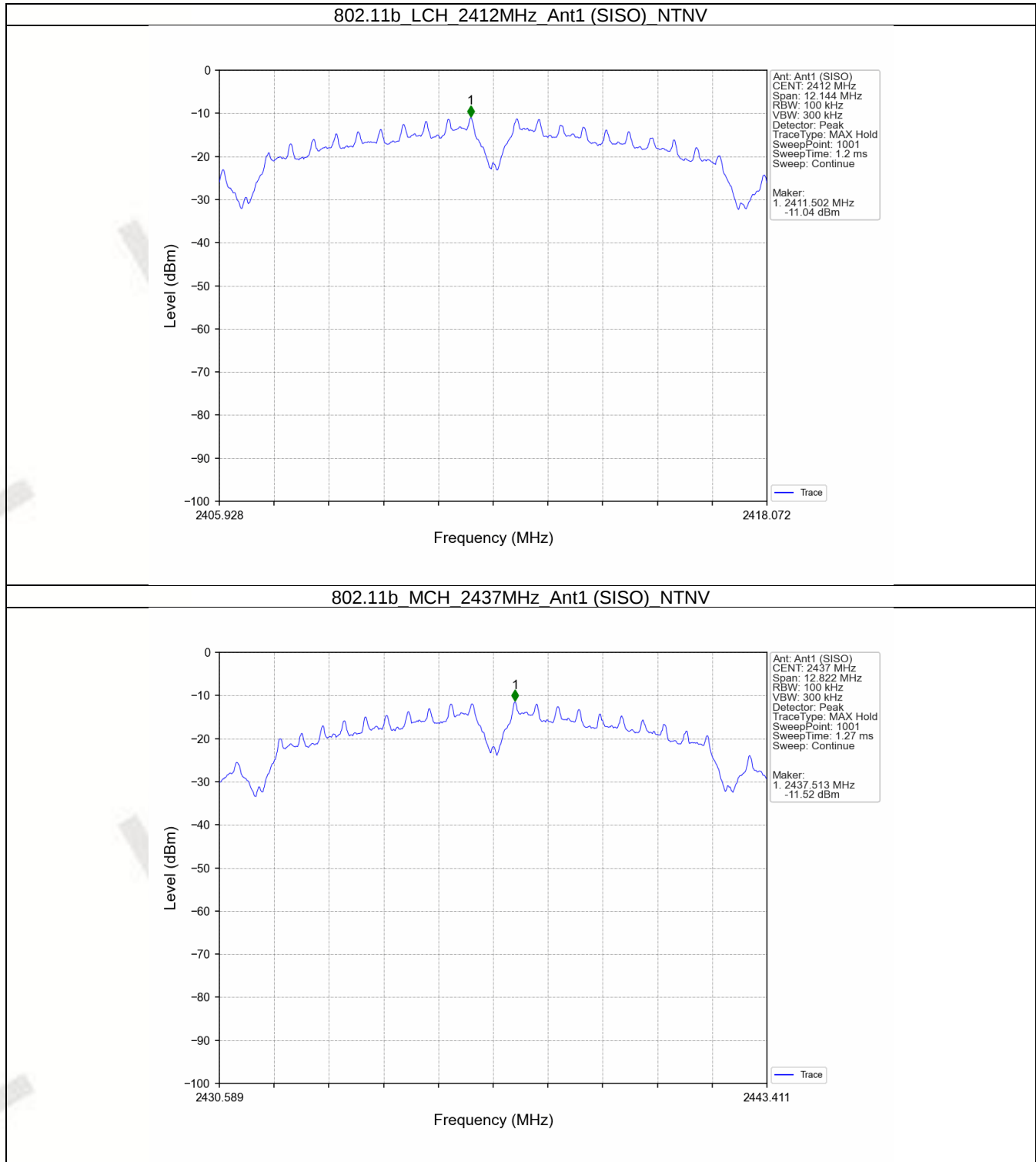
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-11.04	-41.04	Pass
		2437	1	-11.04	-41.04	Pass
		2462	1	-11.04	-41.04	Pass
802.11g	SISO	2412	1	-11.19	-41.19	Pass
		2437	1	-11.19	-41.19	Pass
		2462	1	-11.19	-41.19	Pass
802.11n (HT20)	SISO	2412	1	-11.18	-41.18	Pass
		2437	1	-11.18	-41.18	Pass
		2462	1	-11.18	-41.18	Pass
802.11n (HT40)	SISO	2422	1	-13.89	-43.89	Pass
		2437	1	-13.89	-43.89	Pass
		2452	1	-13.89	-43.89	Pass

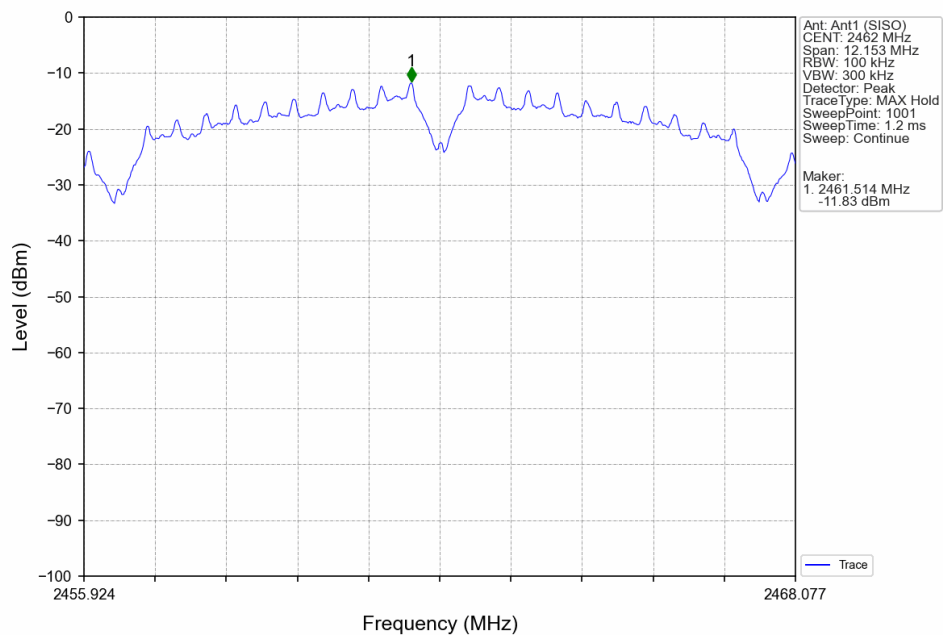
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

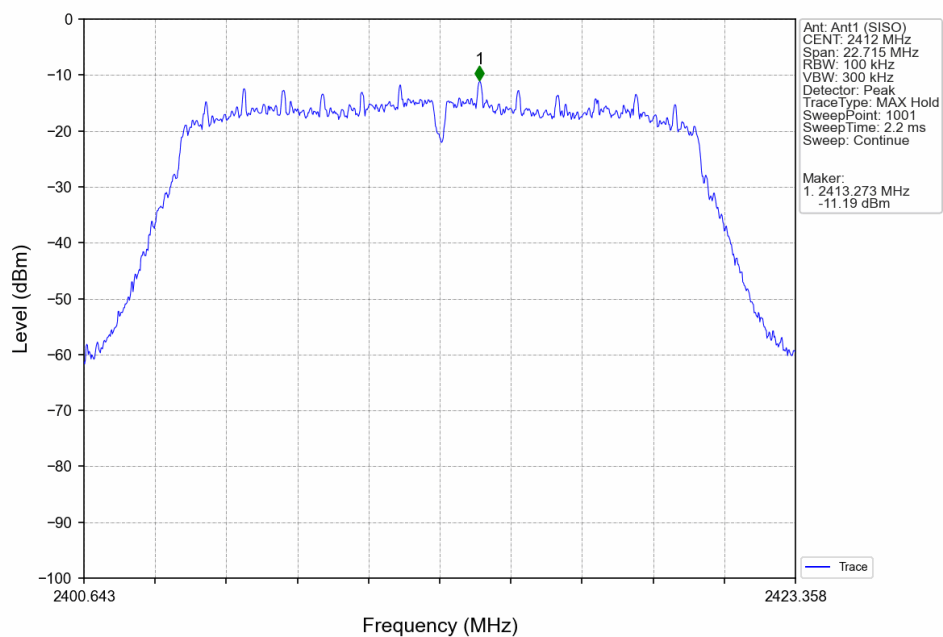
5.2.1 Ref



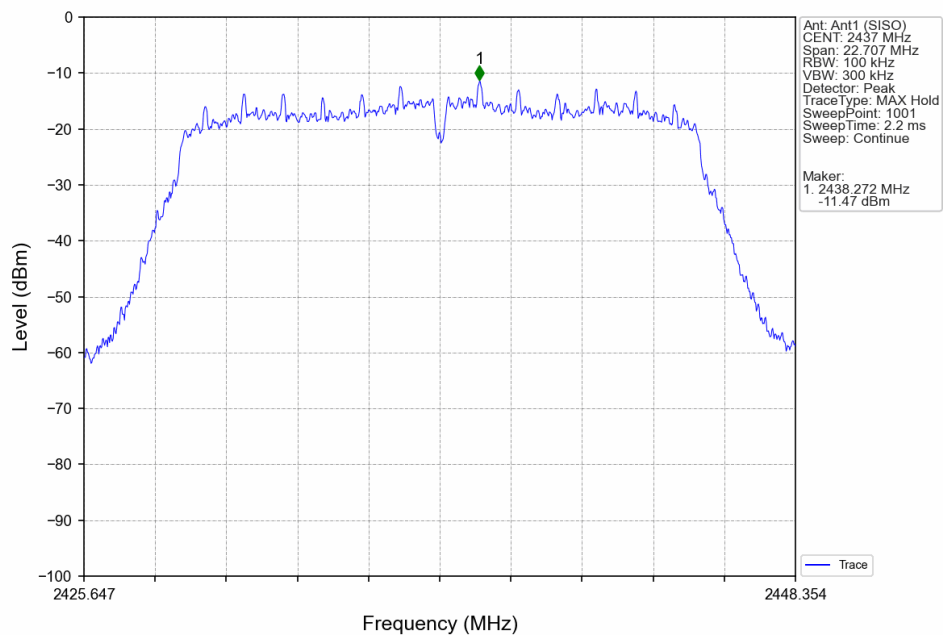
802.11b HCH 2462MHz Ant1 (SISO) NTN



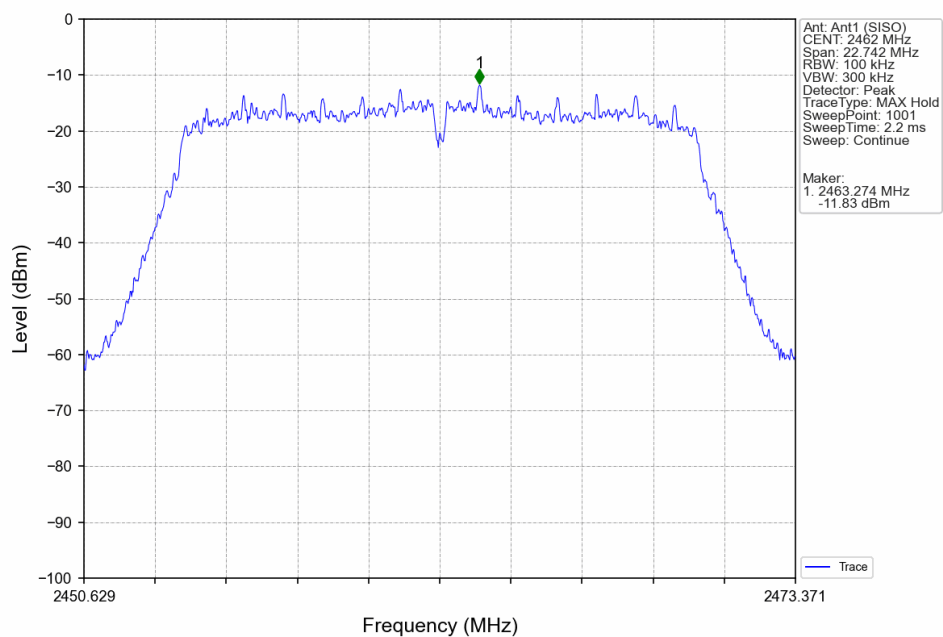
802.11g LCH 2412MHz Ant1 (SISO) NTN



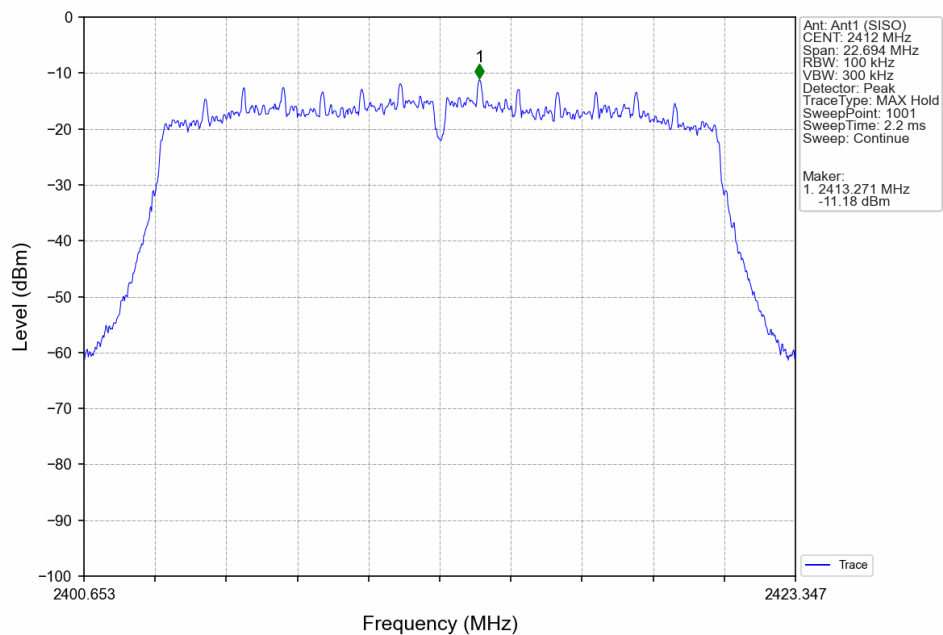
802.11g MCH 2437MHz Ant1 (SISO) NTN



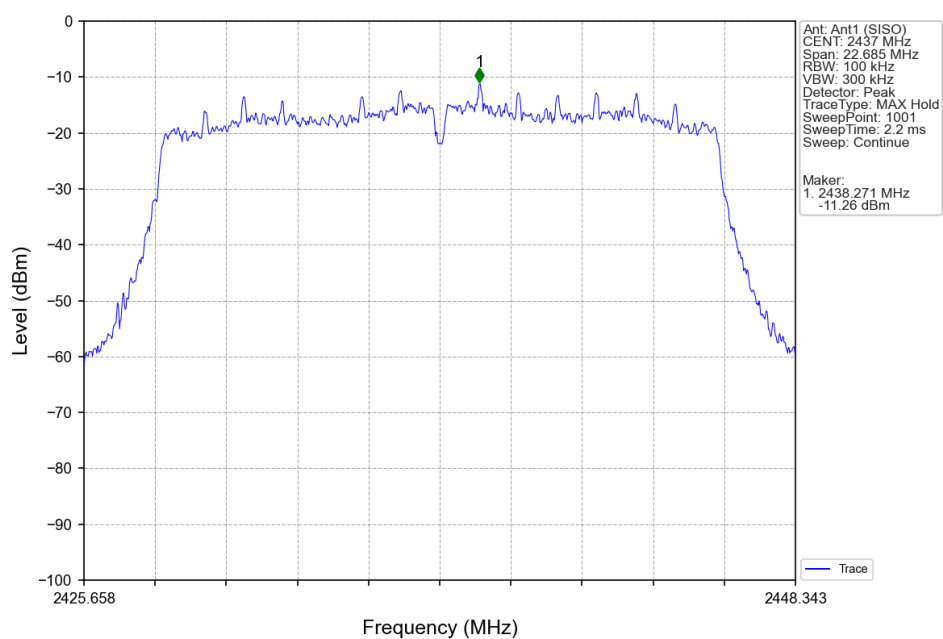
802.11g HCH 2462MHz Ant1 (SISO) NTN



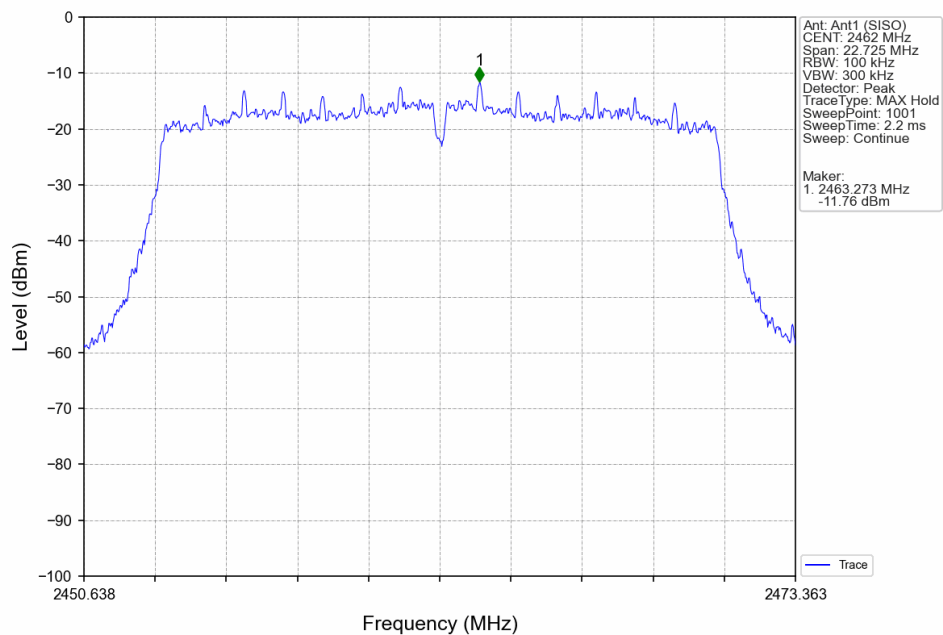
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



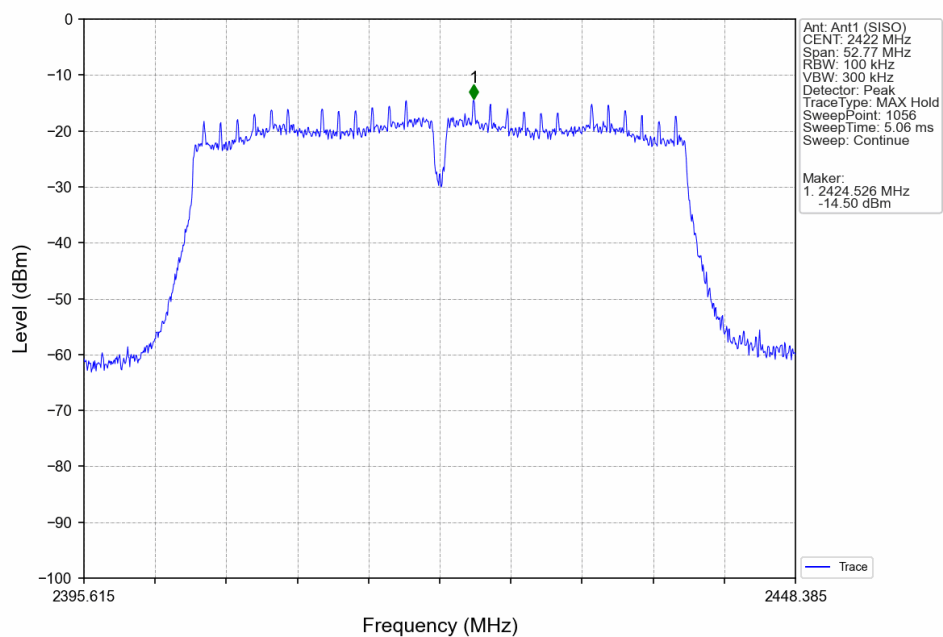
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



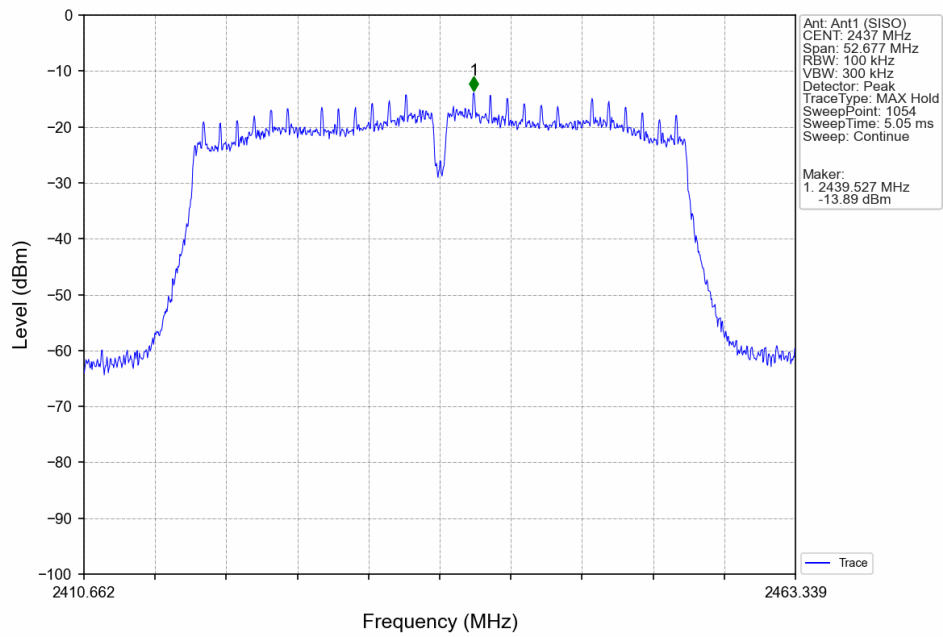
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



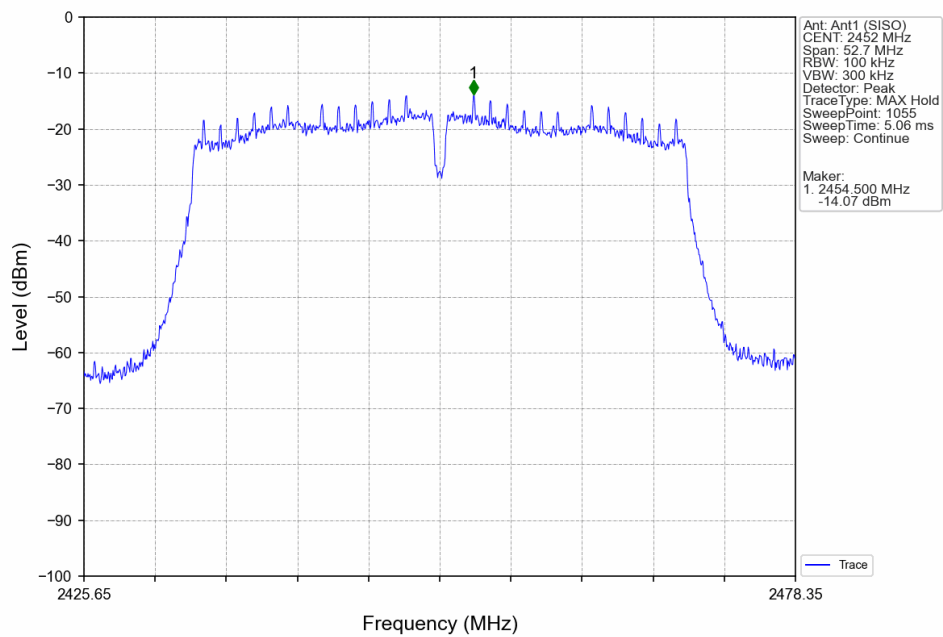
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



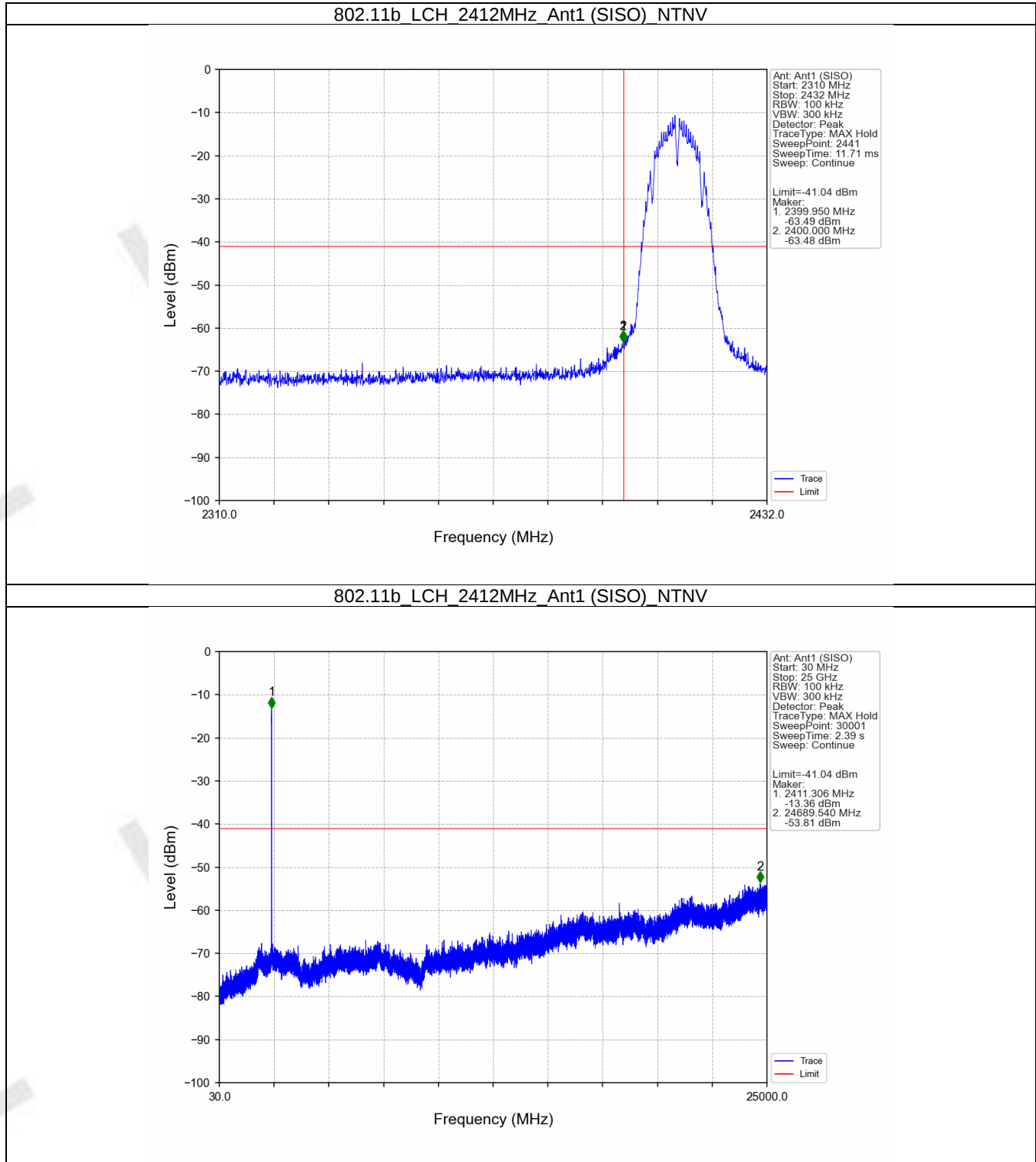
802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



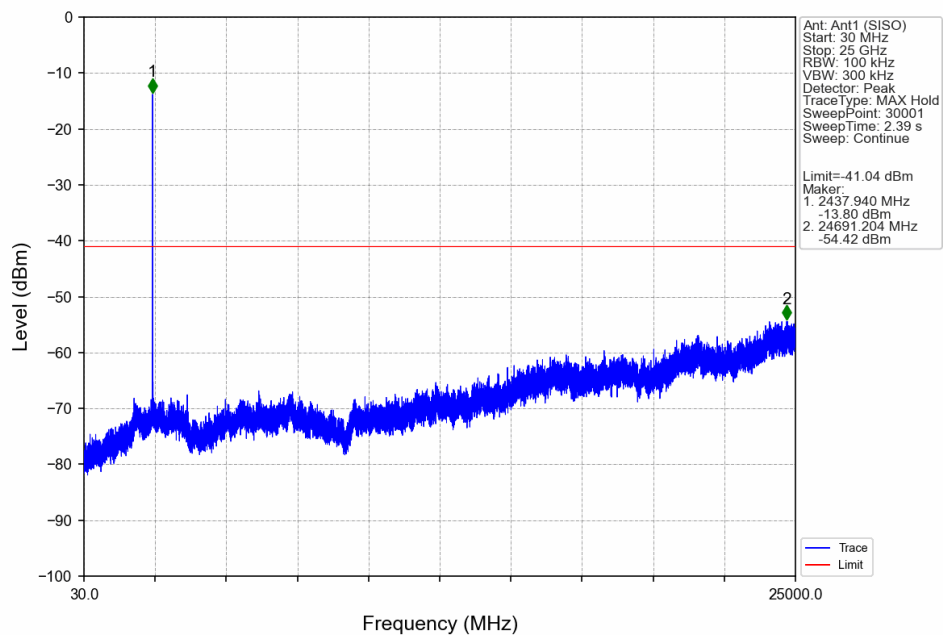
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



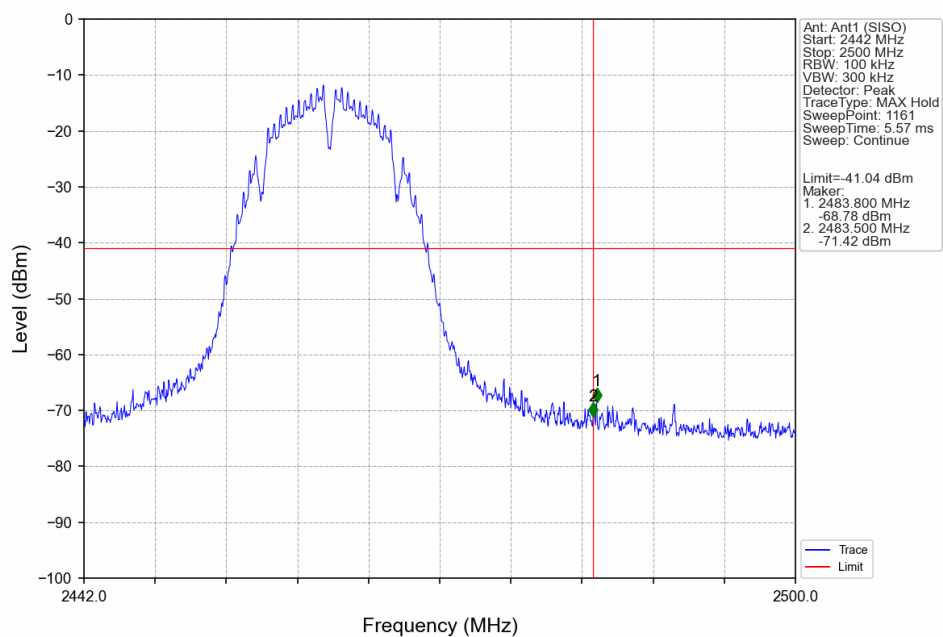
5.2.2 CSE



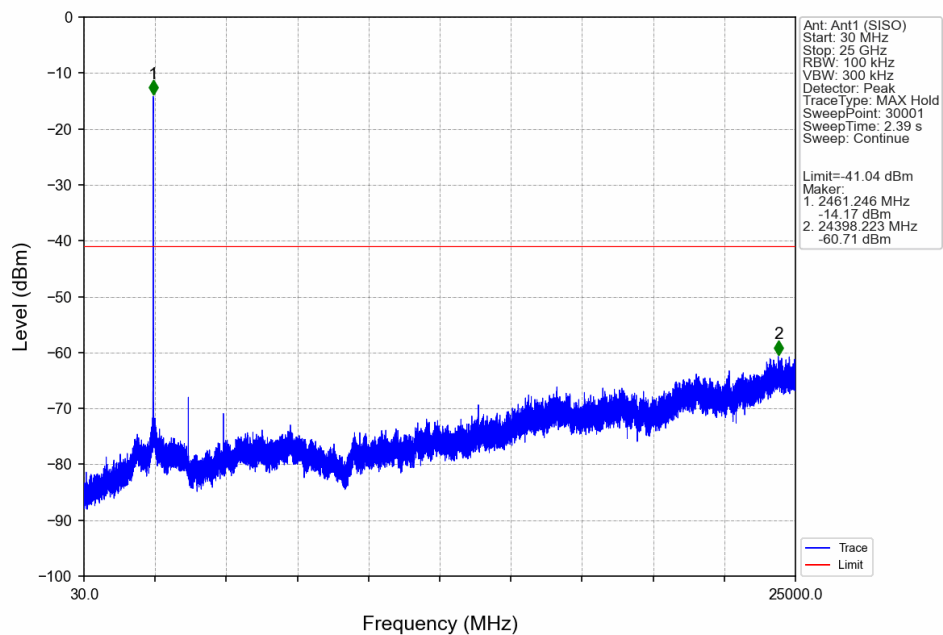
802.11b MCH 2437MHz Ant1 (SISO) NTN



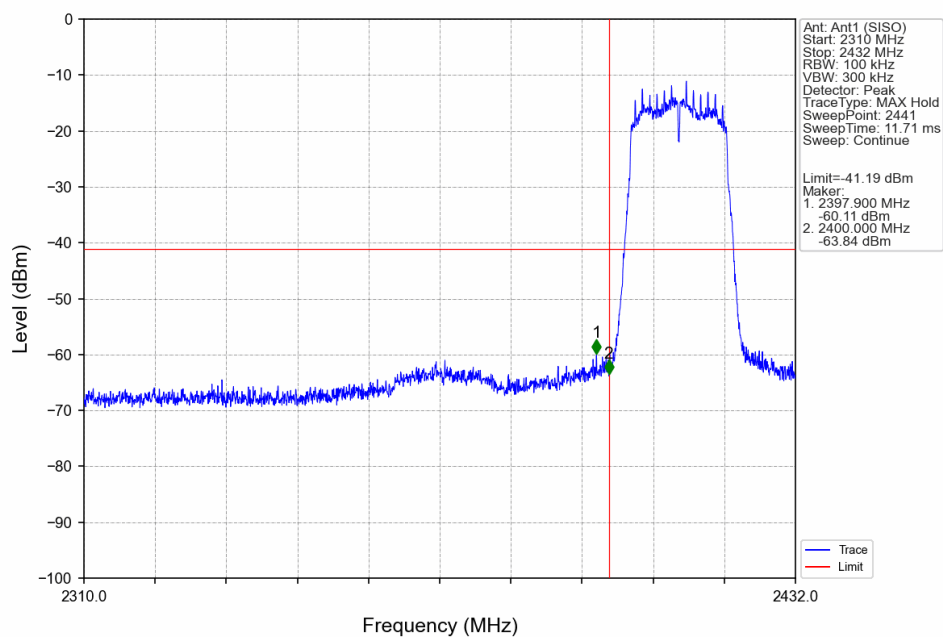
802.11b HCH 2462MHz Ant1 (SISO) NTN



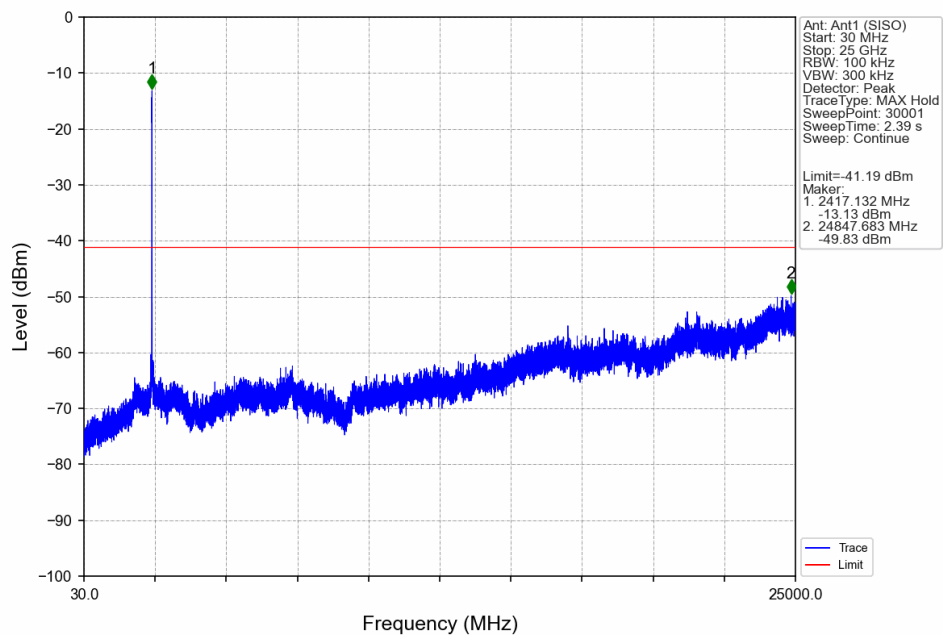
802.11b HCH 2462MHz Ant1 (SISO) NTN



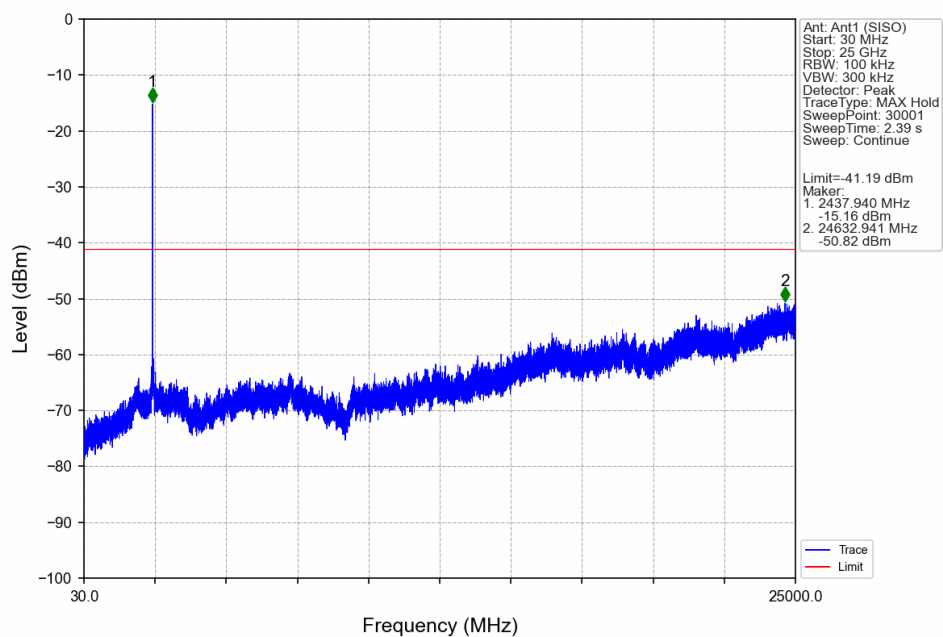
802.11g LCH 2412MHz Ant1 (SISO) NTN



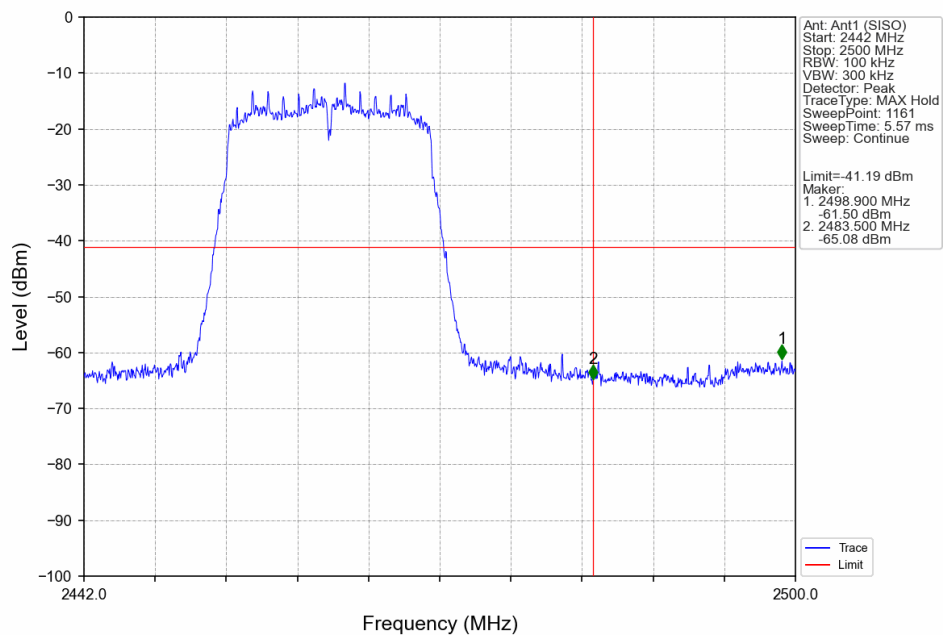
802.11g LCH 2412MHz Ant1 (SISO) NTN



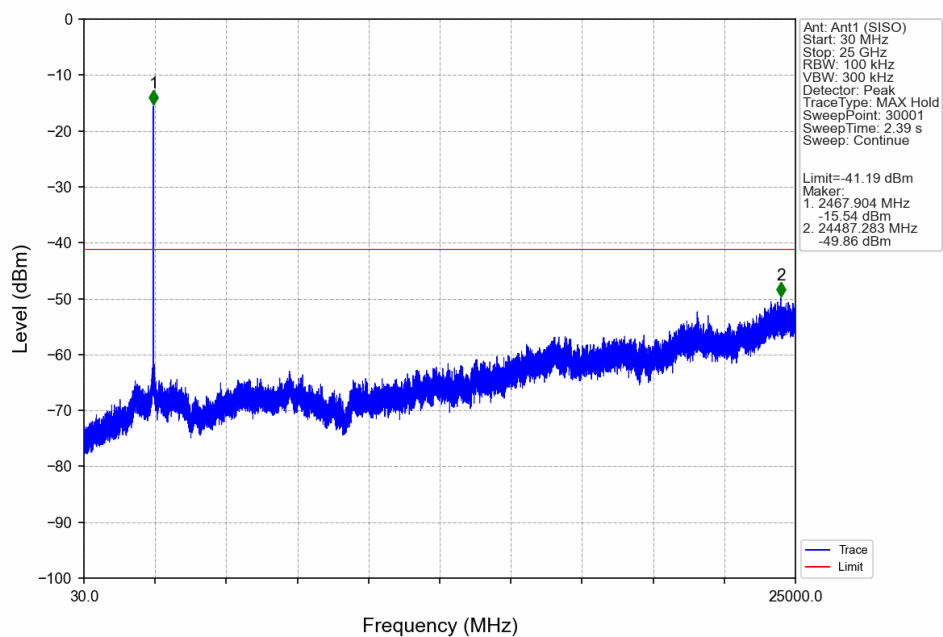
802.11g MCH 2437MHz Ant1 (SISO) NTN



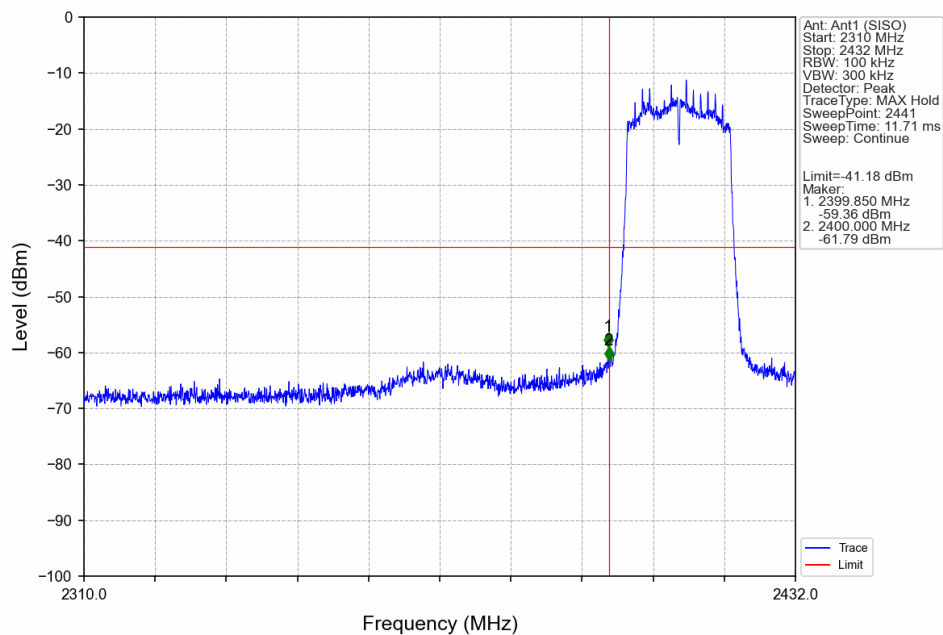
802.11g HCH 2462MHz Ant1 (SISO) NTN



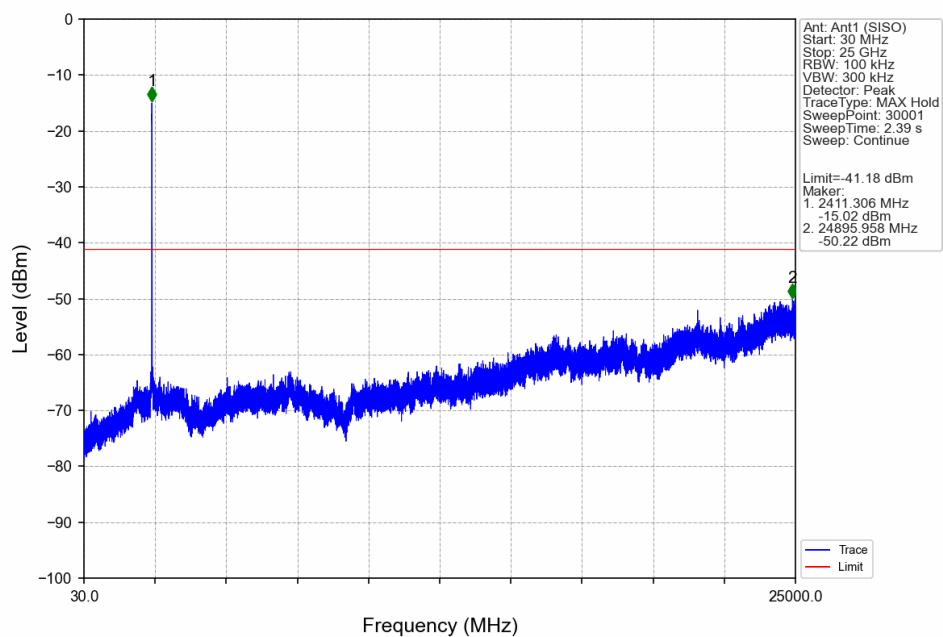
802.11g HCH 2462MHz Ant1 (SISO) NTN



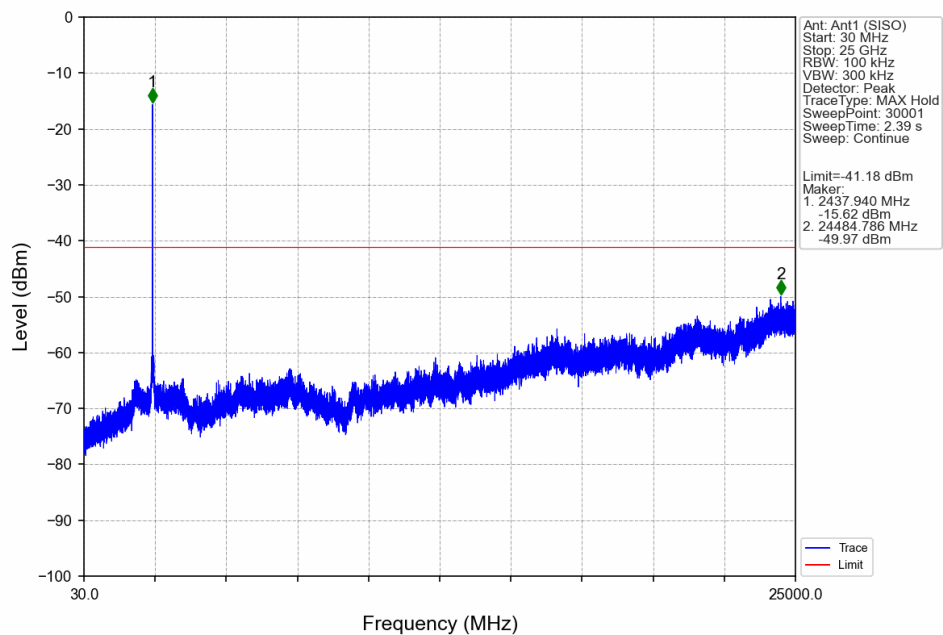
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



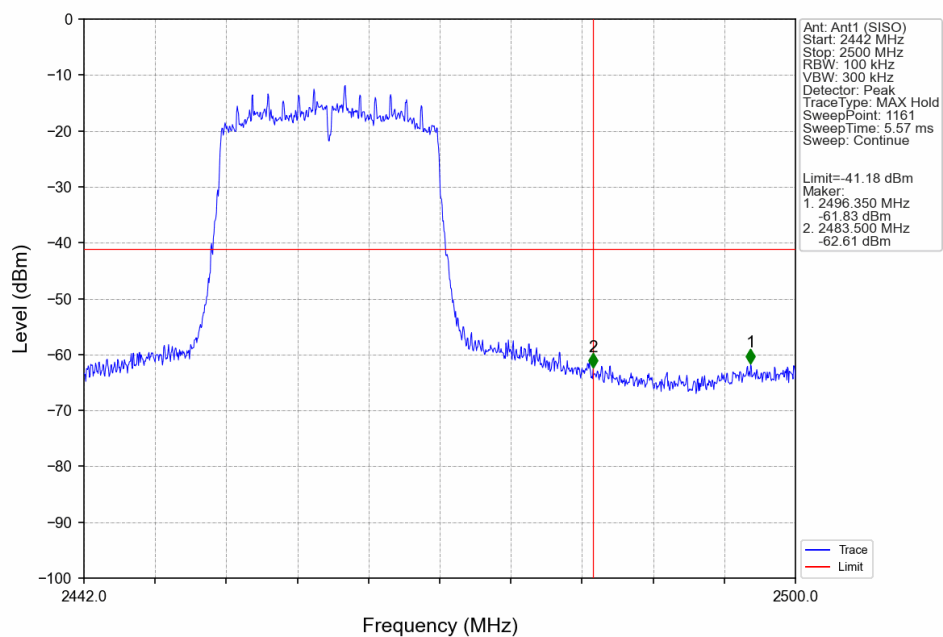
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



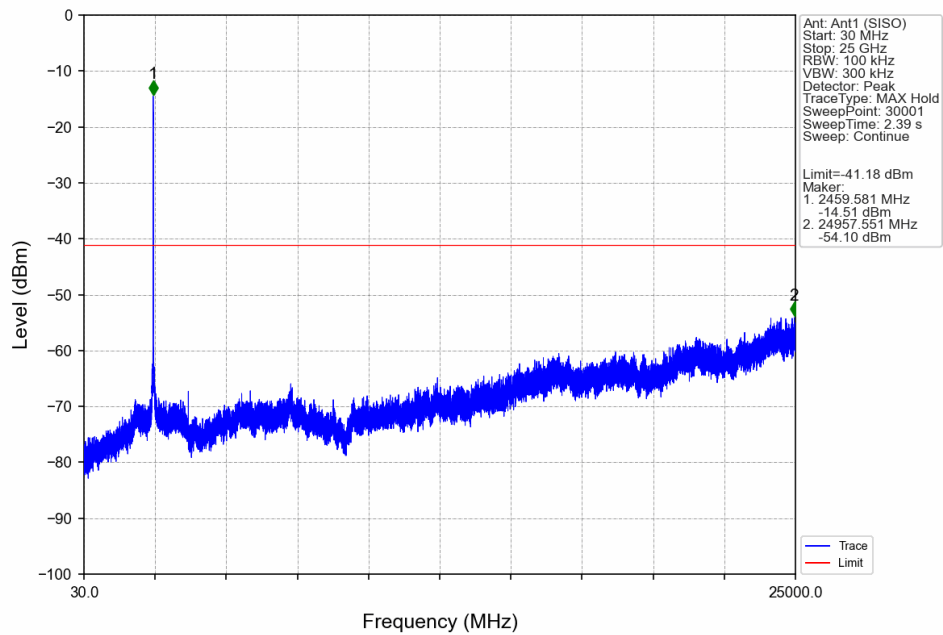
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



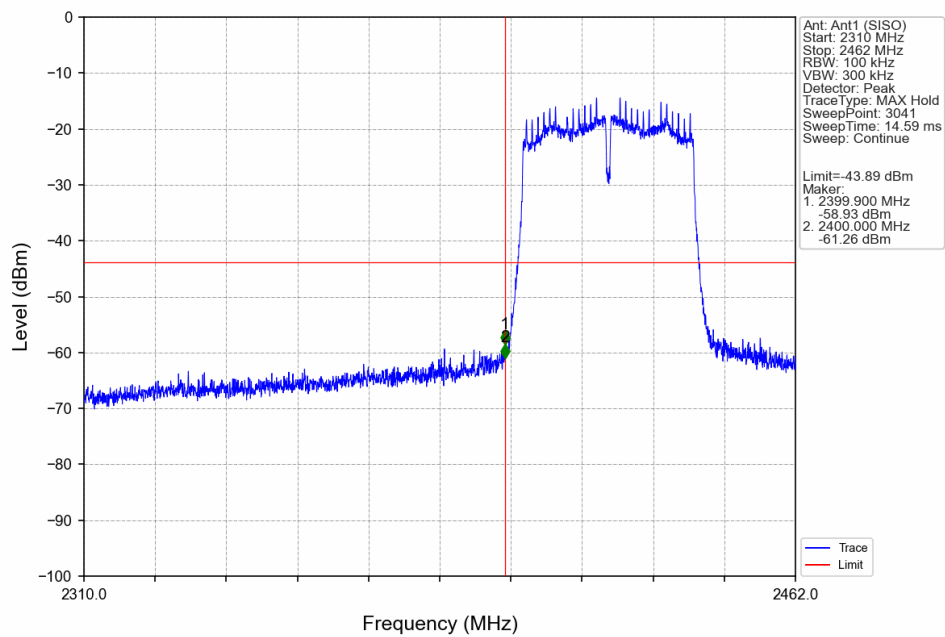
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



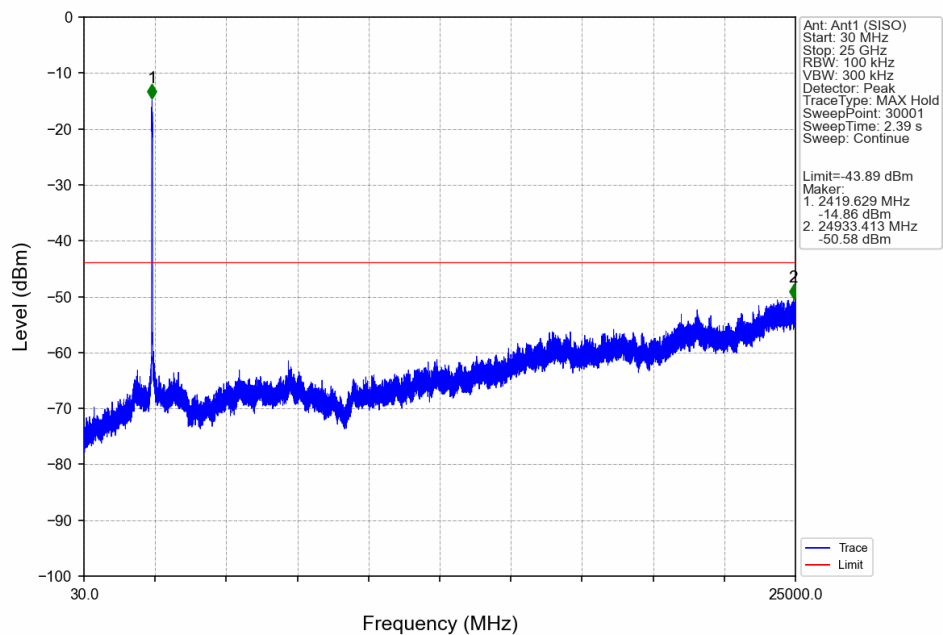
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



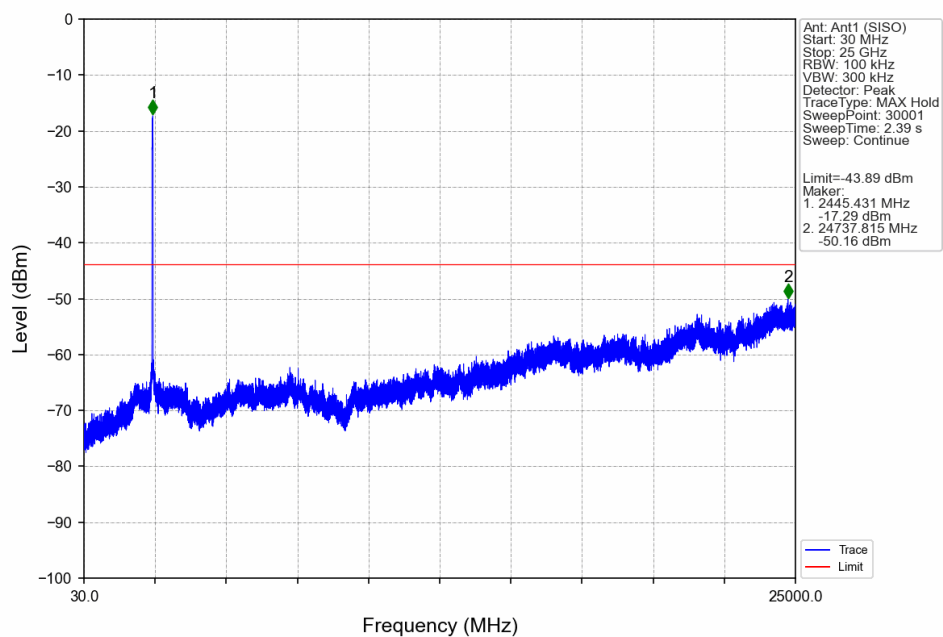
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



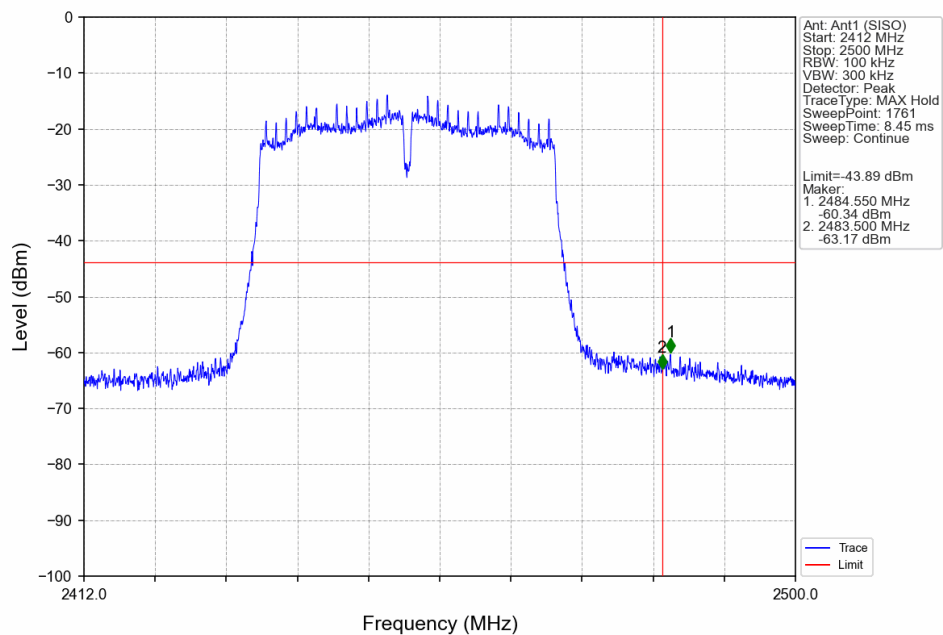
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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



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

