



1. Duty Cycle

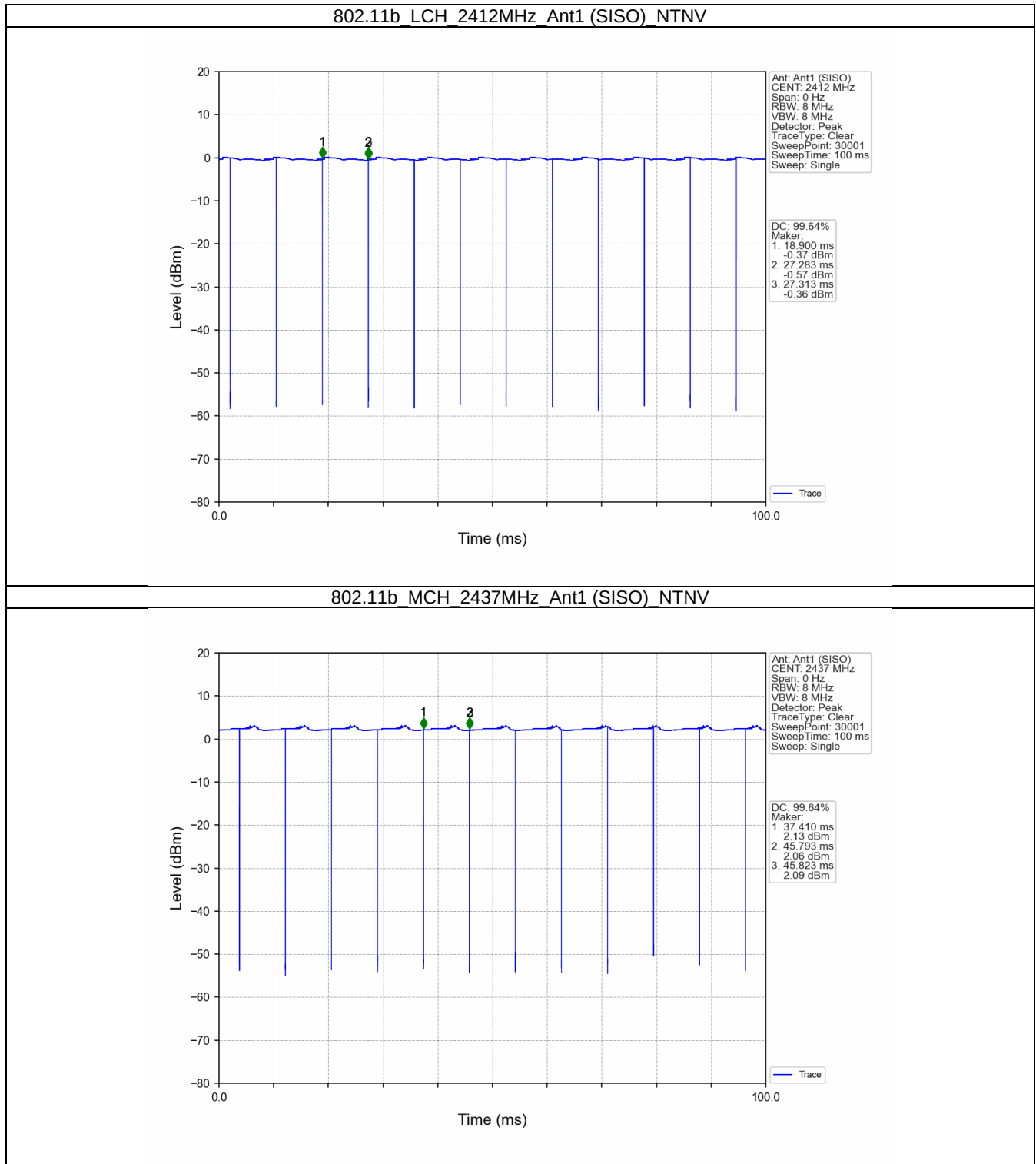
1.1 Ant1

1.1.1 Test Result

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	8.383	8.413	99.64	0.02	0.04
		2437	8.383	8.413	99.64	0.02	0.04
		2462	8.383	8.413	99.64	0.02	0.04
802.11g	SISO	2412	1.392	1.428	97.48	0.11	0.03
		2437	1.392	1.427	97.55	0.11	0.07
		2462	1.395	1.428	97.69	0.10	0.03
802.11n (HT20)	SISO	2412	1.300	1.336	97.31	0.12	0.03
		2437	1.300	1.336	97.31	0.12	0.00
		2462	1.300	1.335	97.38	0.12	0.04
802.11n (HT40)	SISO	2422	0.650	0.683	95.17	0.22	0.03
		2437	0.649	0.684	94.88	0.23	0.07
		2452	0.649	0.684	94.88	0.23	0.07

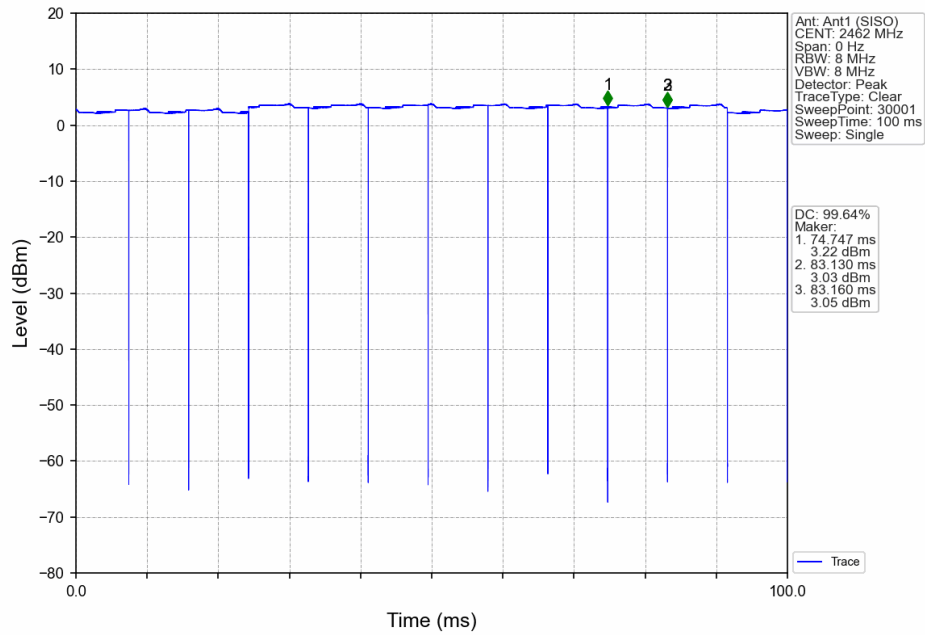


1.1.2 Test Graph

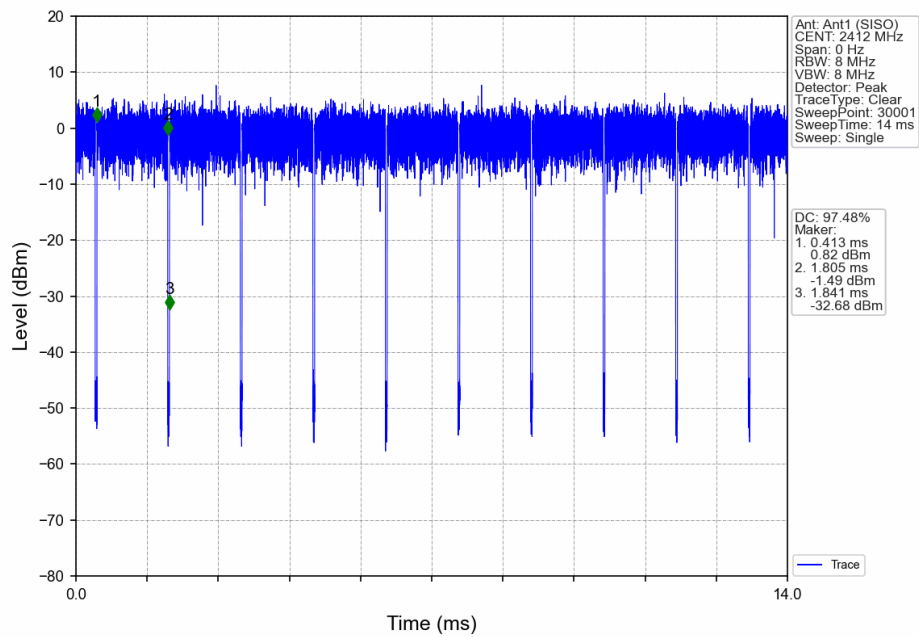




802.11b HCH 2462MHz Ant1 (SISO) NTN

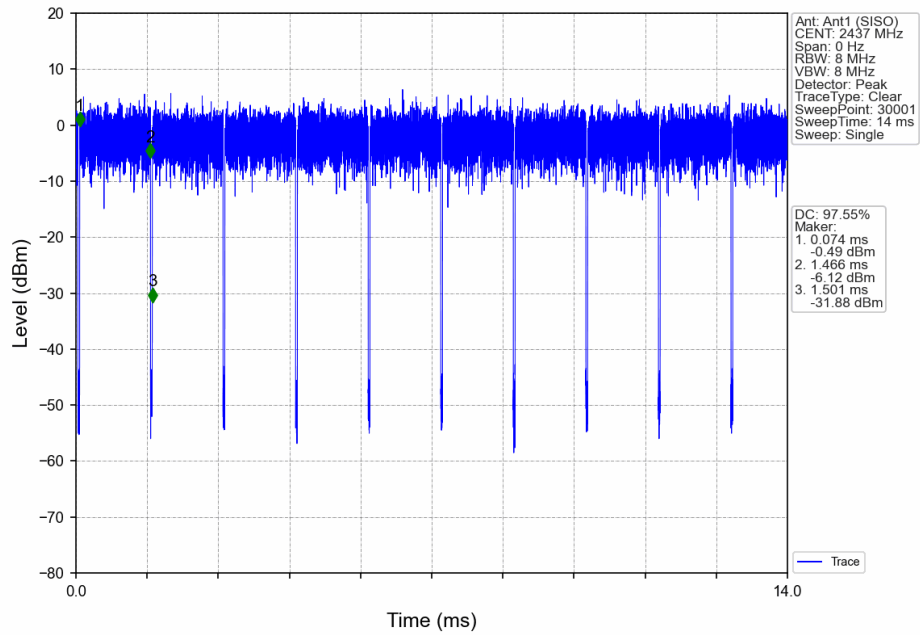


802.11g LCH 2412MHz Ant1 (SISO) NTN

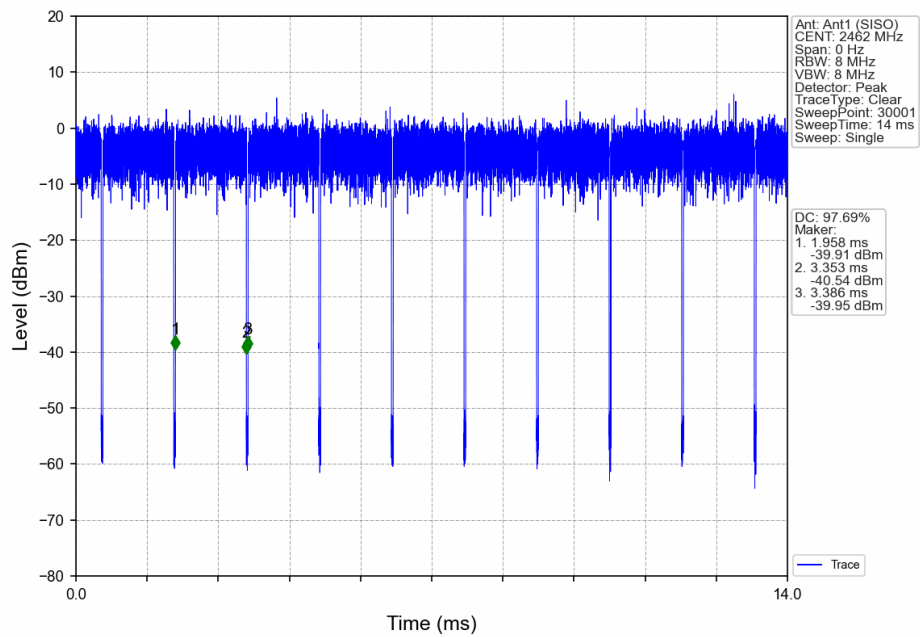




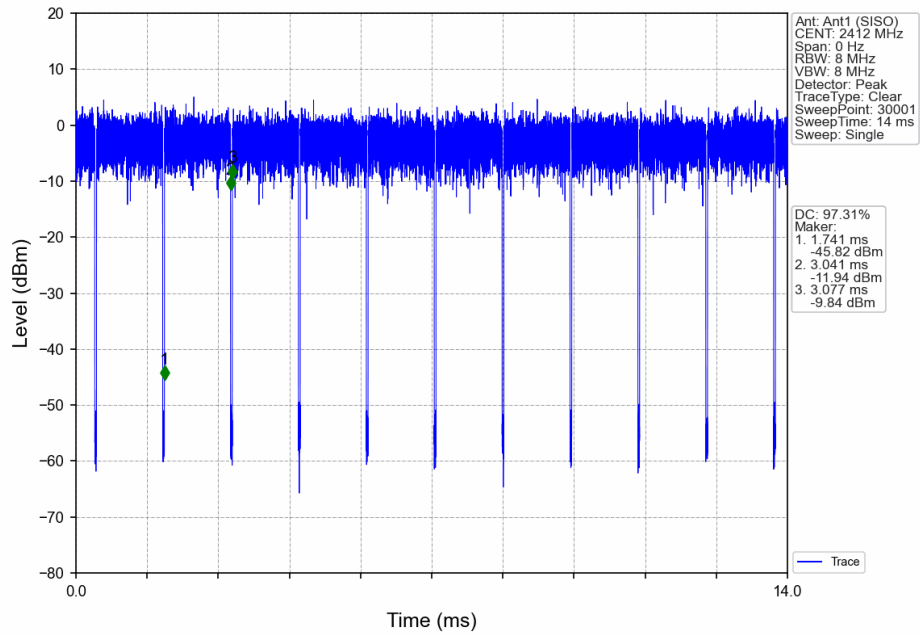
802.11g MCH 2437MHz Ant1 (SISO) NTN



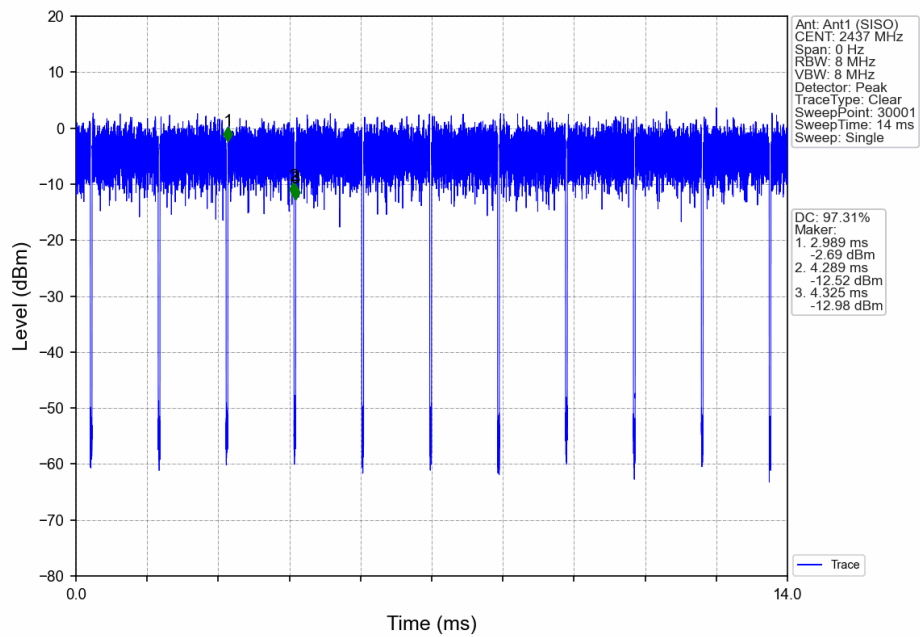
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



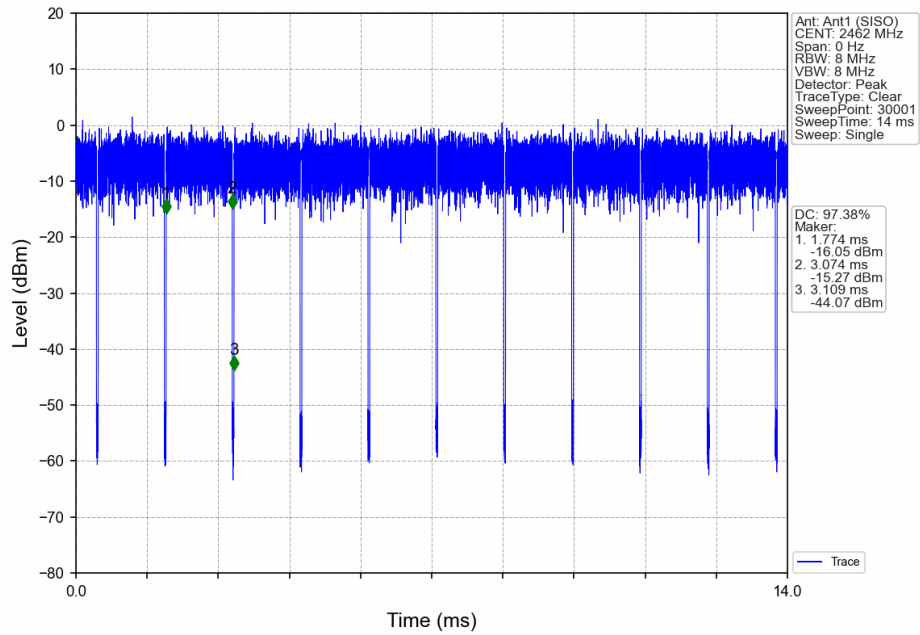
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



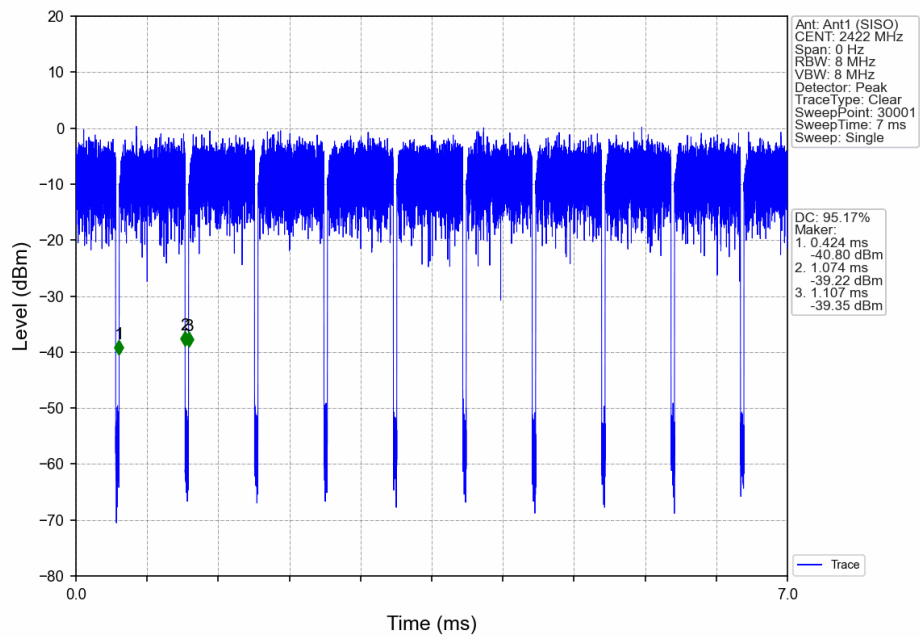
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



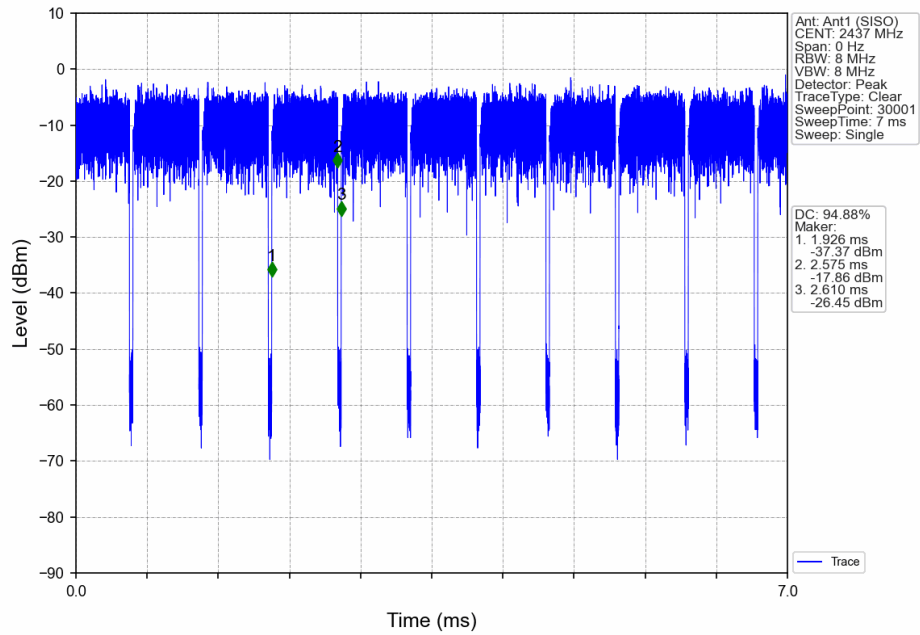
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



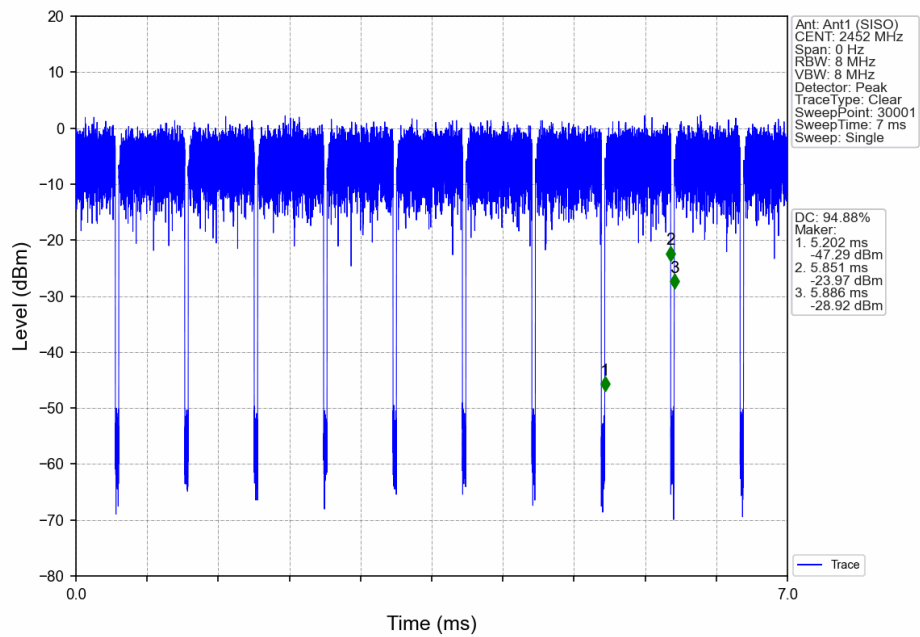
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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



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





2. Bandwidth

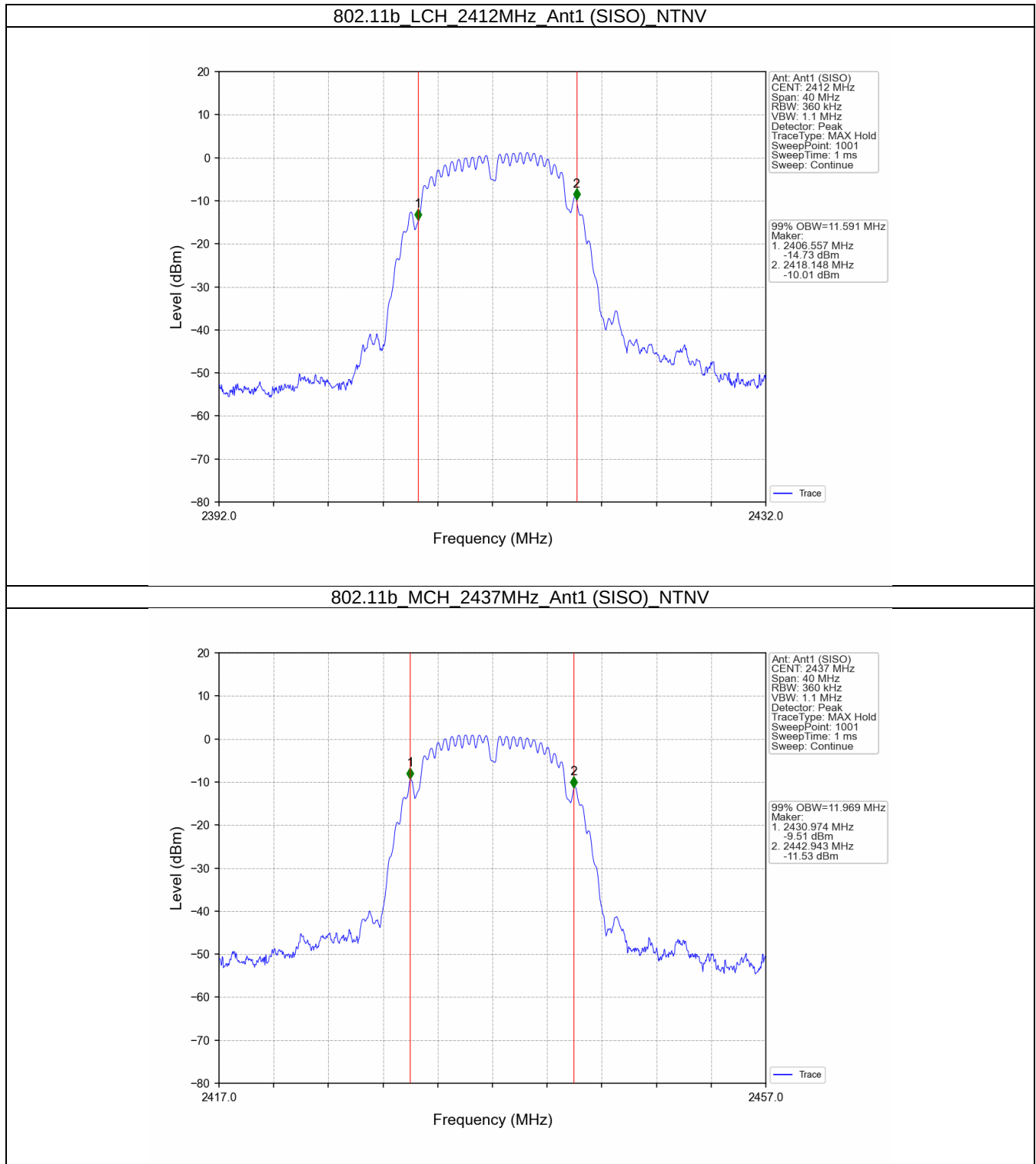
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.591	/	Pass
		2437	1	11.969	/	Pass
		2462	1	11.873	/	Pass
802.11g	SISO	2412	1	17.429	/	Pass
		2437	1	17.779	/	Pass
		2462	1	17.454	/	Pass
802.11n (HT20)	SISO	2412	1	18.050	/	Pass
		2437	1	18.426	/	Pass
		2462	1	18.025	/	Pass
802.11n (HT40)	SISO	2422	1	36.060	/	Pass
		2437	1	36.914	/	Pass
		2452	1	37.609	/	Pass

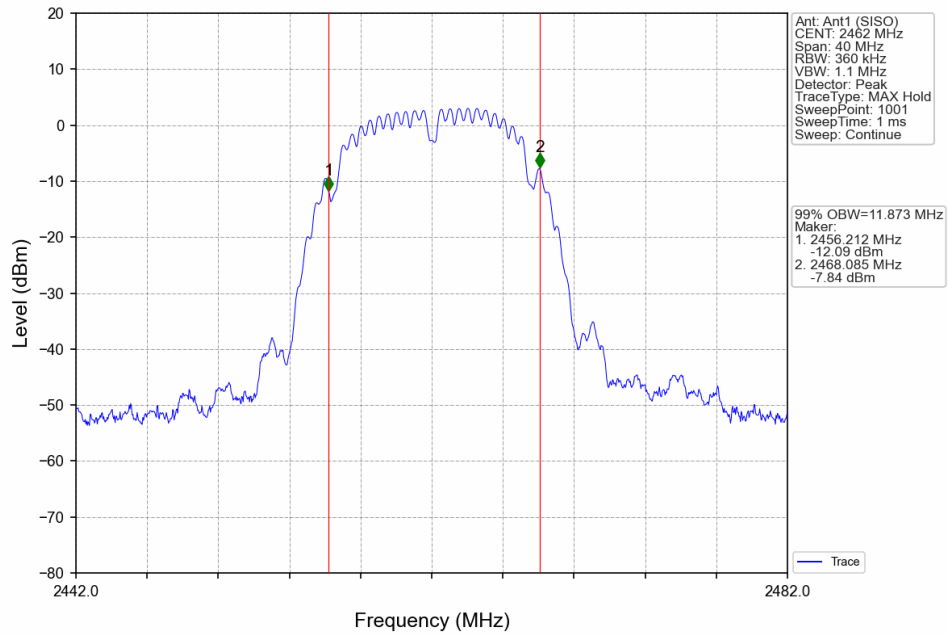


2.1.2 Test Graph

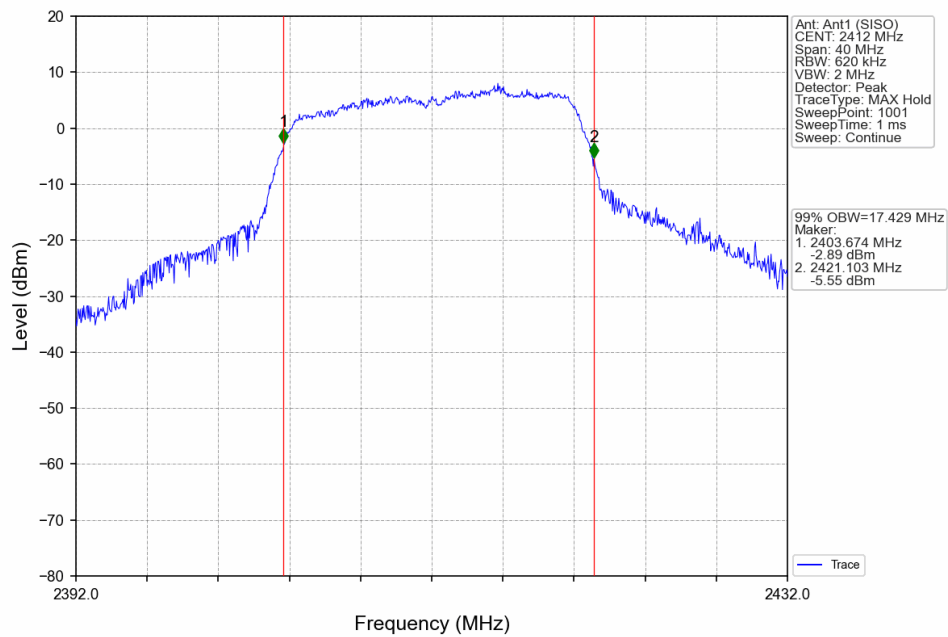




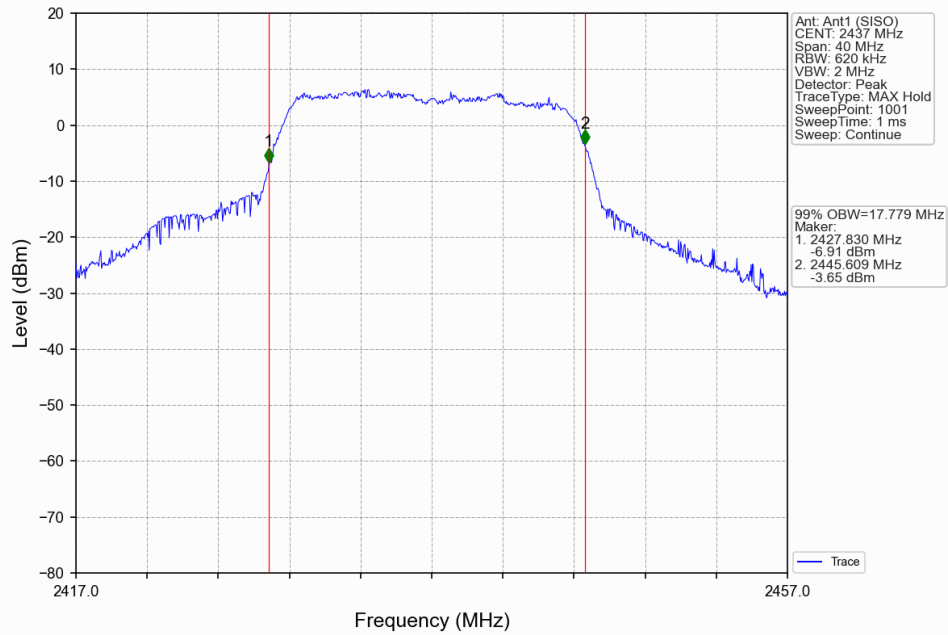
802.11b HCH 2462MHz Ant1 (SISO) NTN



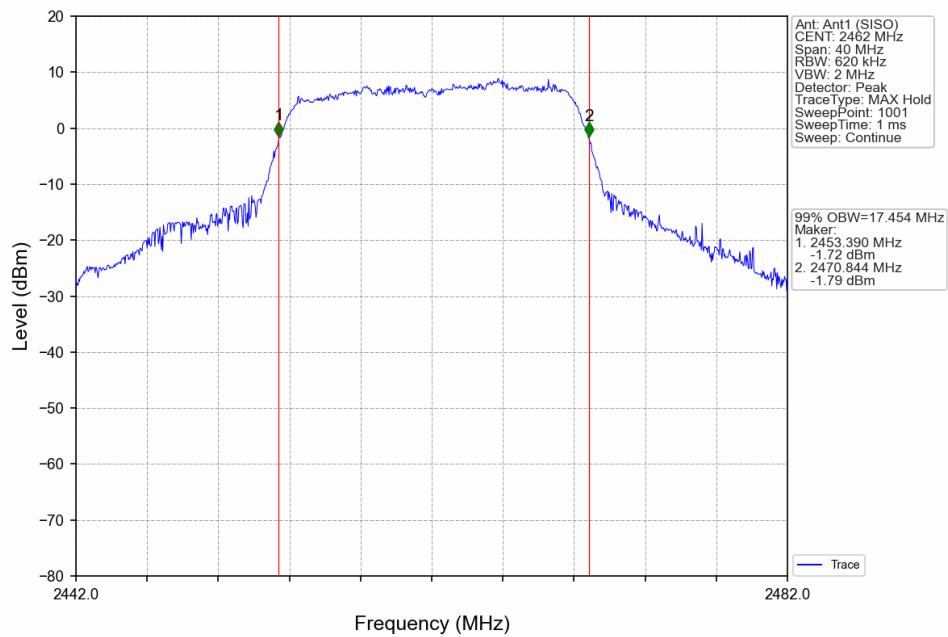
802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g MCH 2437MHz Ant1 (SISO) NTN

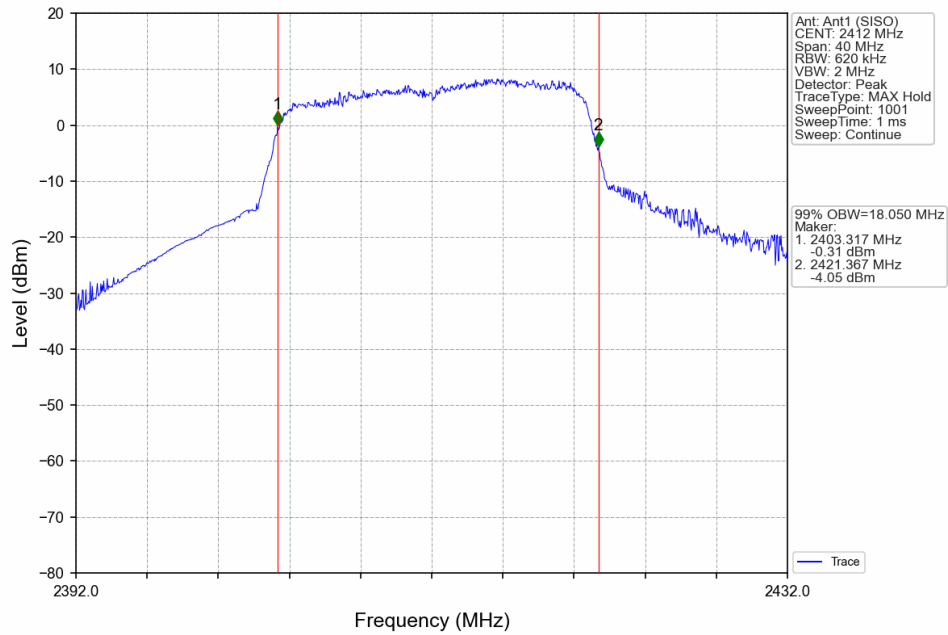


802.11g HCH 2462MHz Ant1 (SISO) NTN

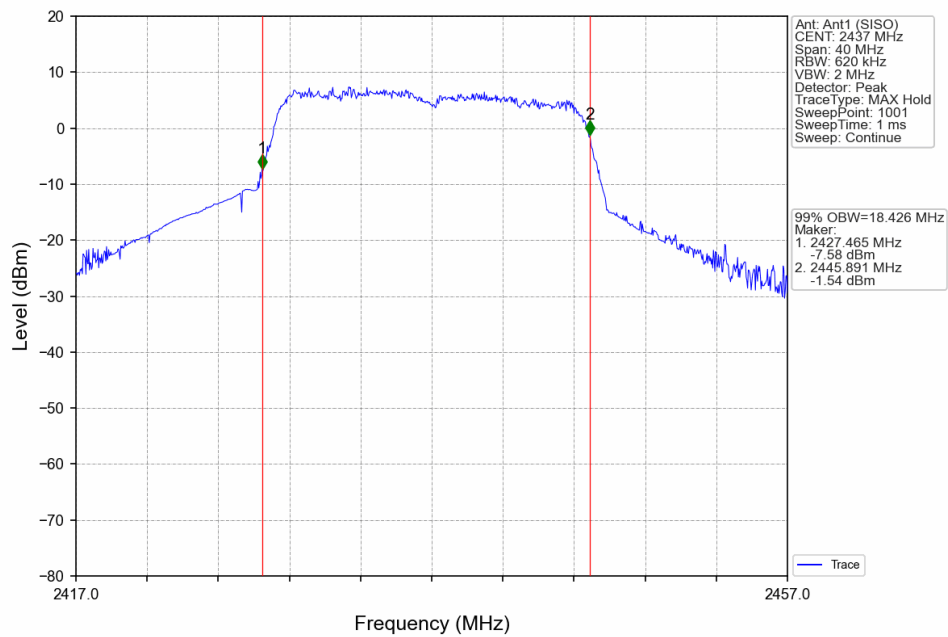




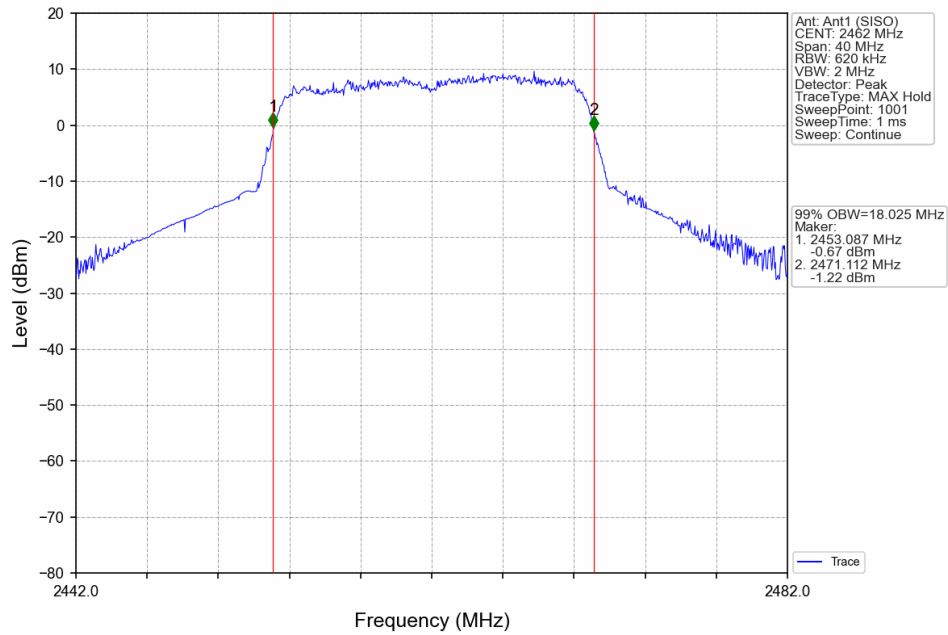
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



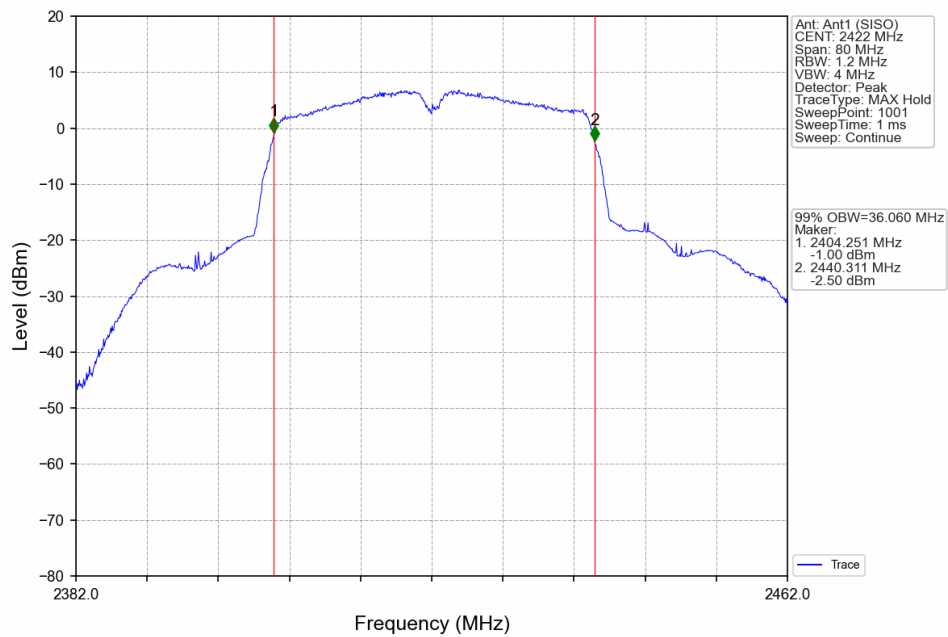
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



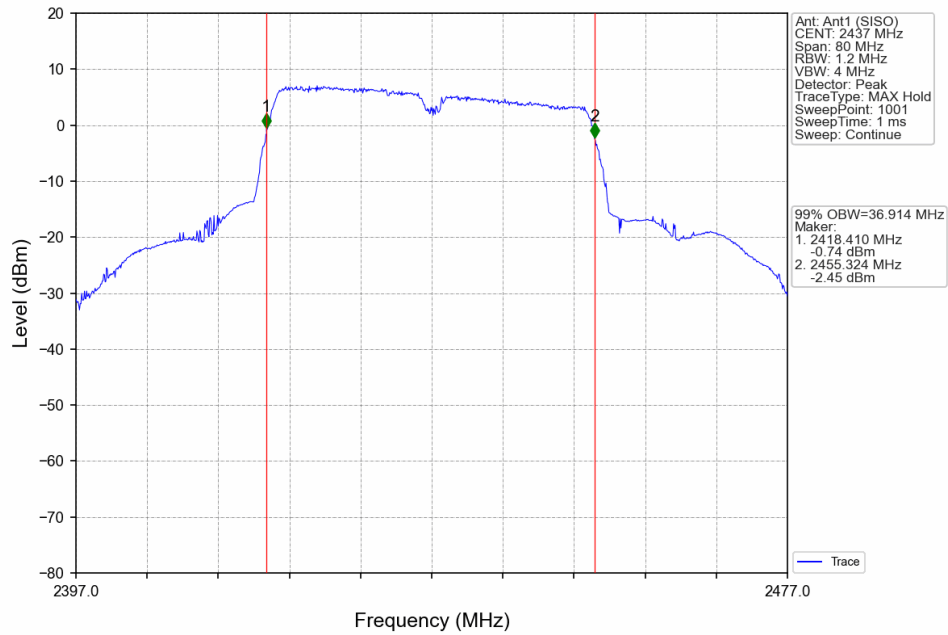
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



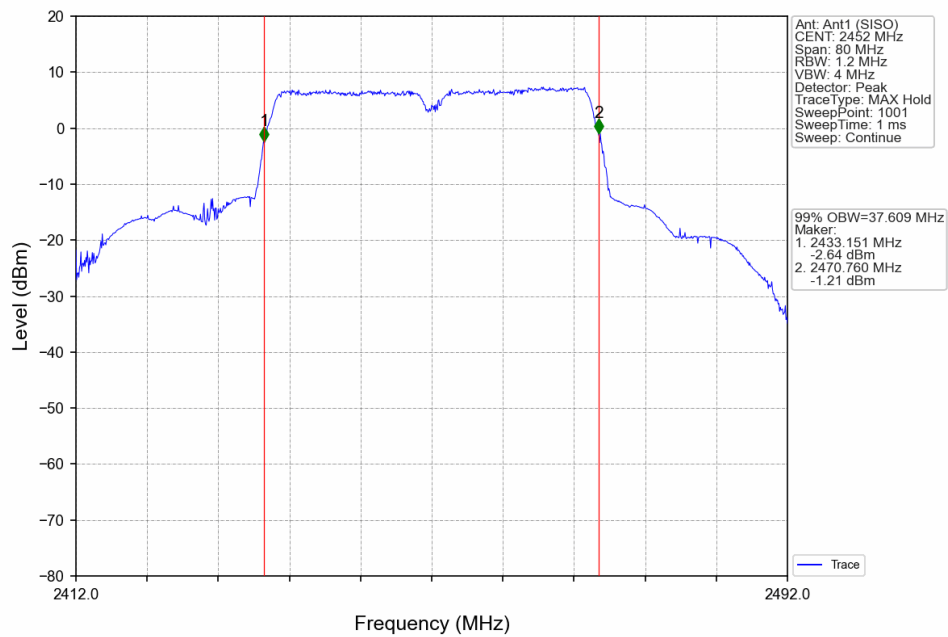
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV



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



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





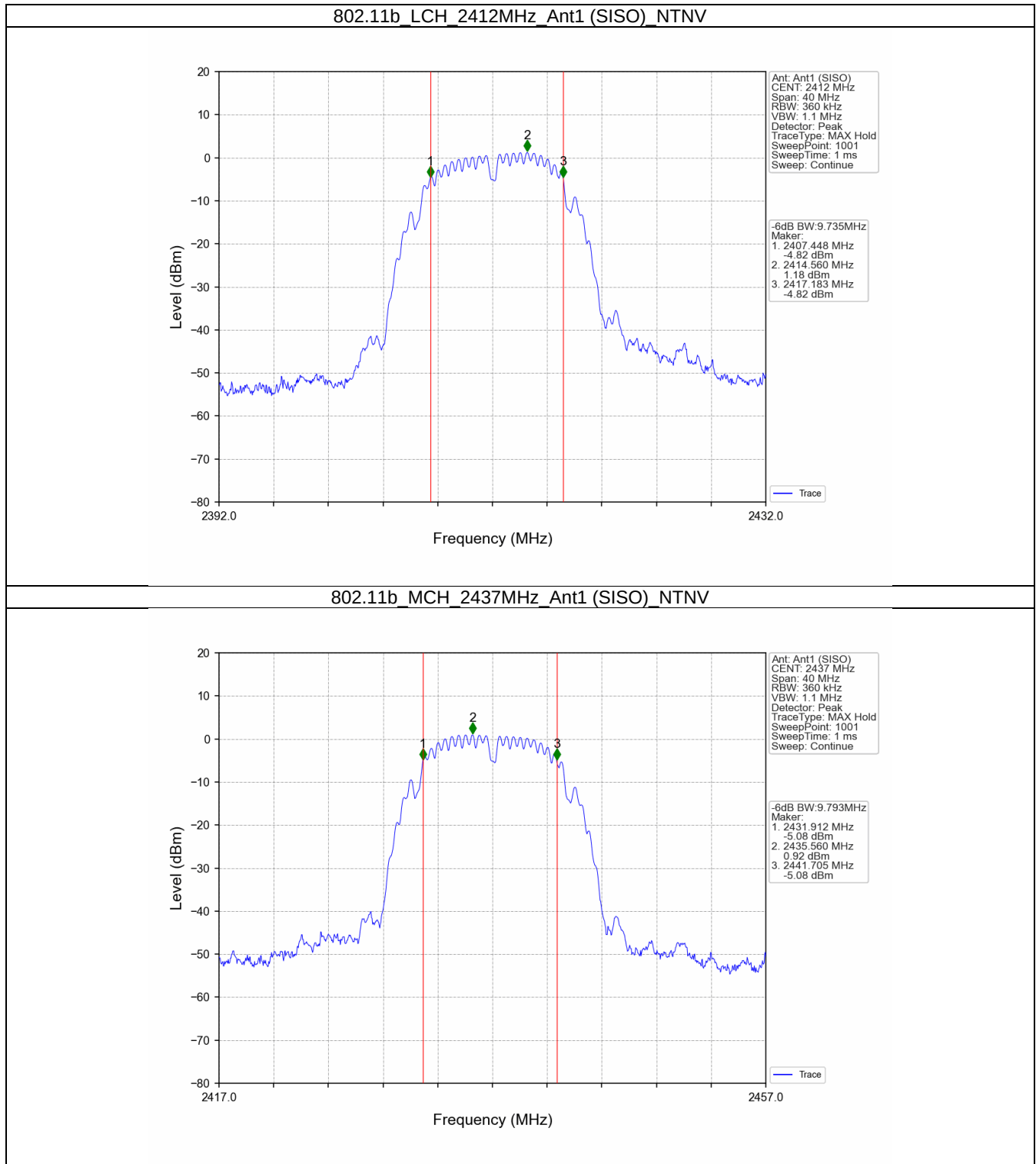
2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.735	≥ 0.5	Pass
		2437	1	9.793	≥ 0.5	Pass
		2462	1	9.784	≥ 0.5	Pass
802.11g	SISO	2412	1	15.772	≥ 0.5	Pass
		2437	1	16.446	≥ 0.5	Pass
		2462	1	16.273	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.885	≥ 0.5	Pass
		2437	1	17.355	≥ 0.5	Pass
		2462	1	17.284	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	34.970	≥ 0.5	Pass
		2437	1	35.947	≥ 0.5	Pass
		2452	1	36.393	≥ 0.5	Pass

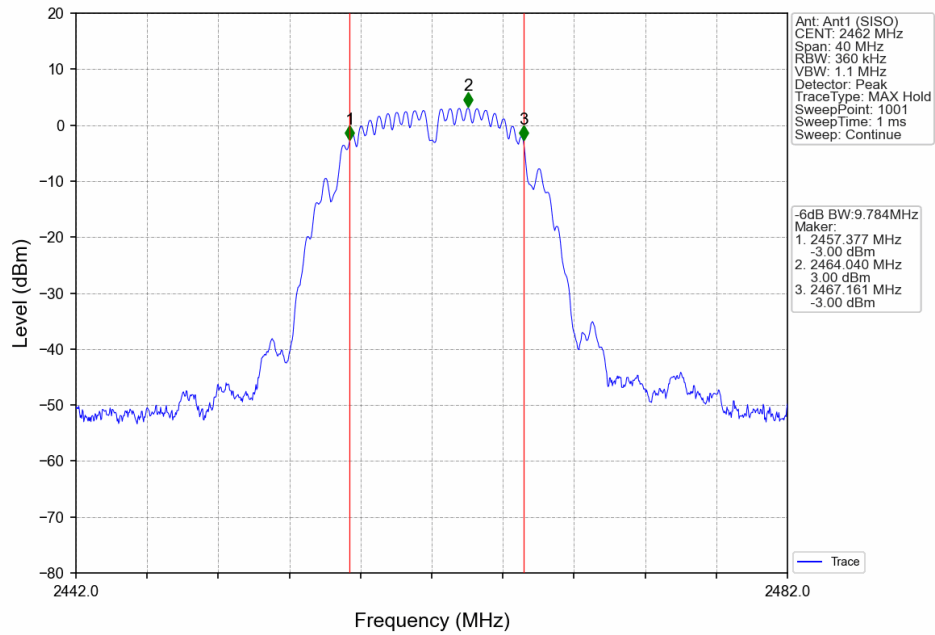


2.2.2 Test Graph

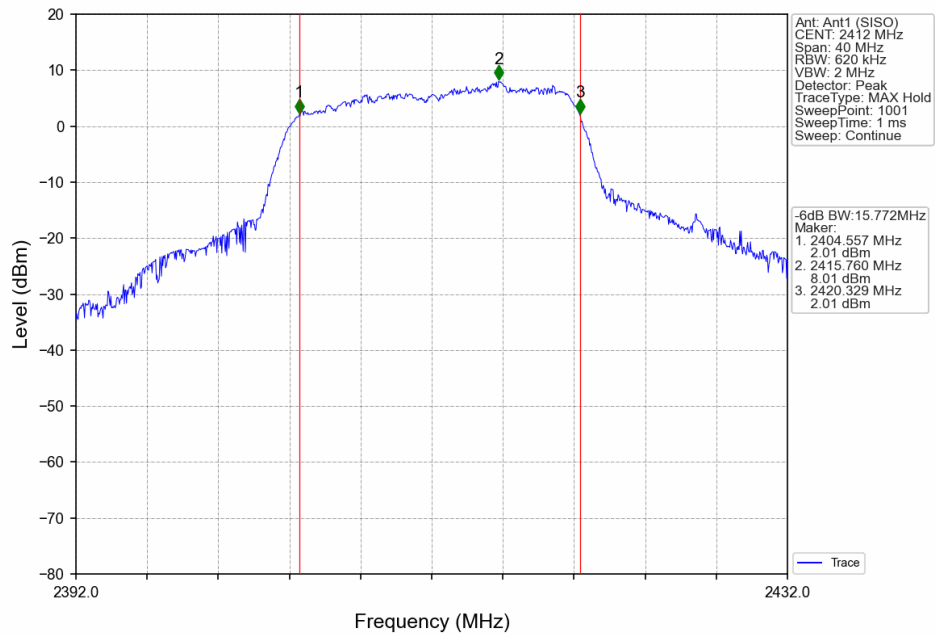




802.11b HCH 2462MHz Ant1 (SISO) NTN

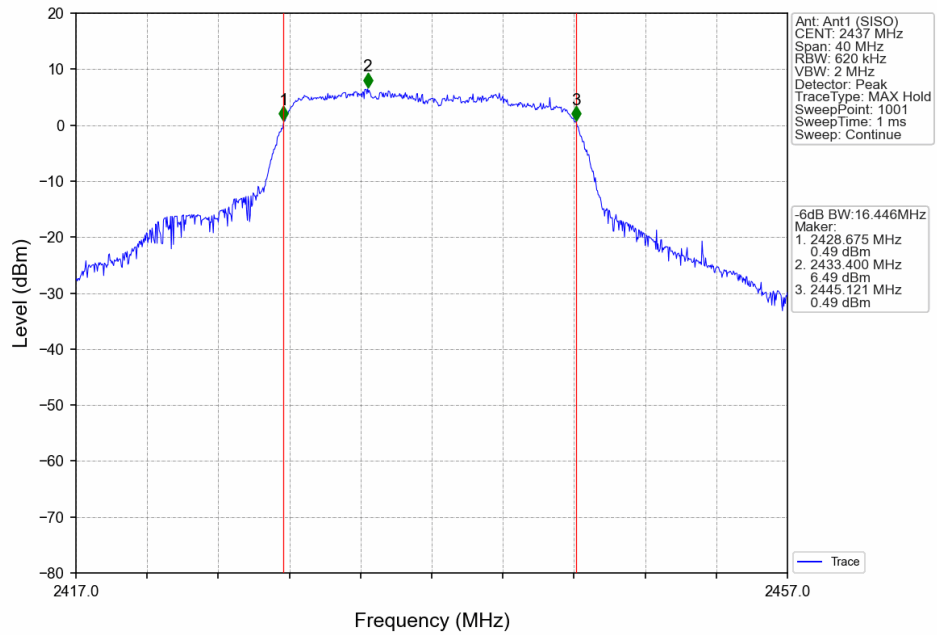


802.11g LCH 2412MHz Ant1 (SISO) NTN

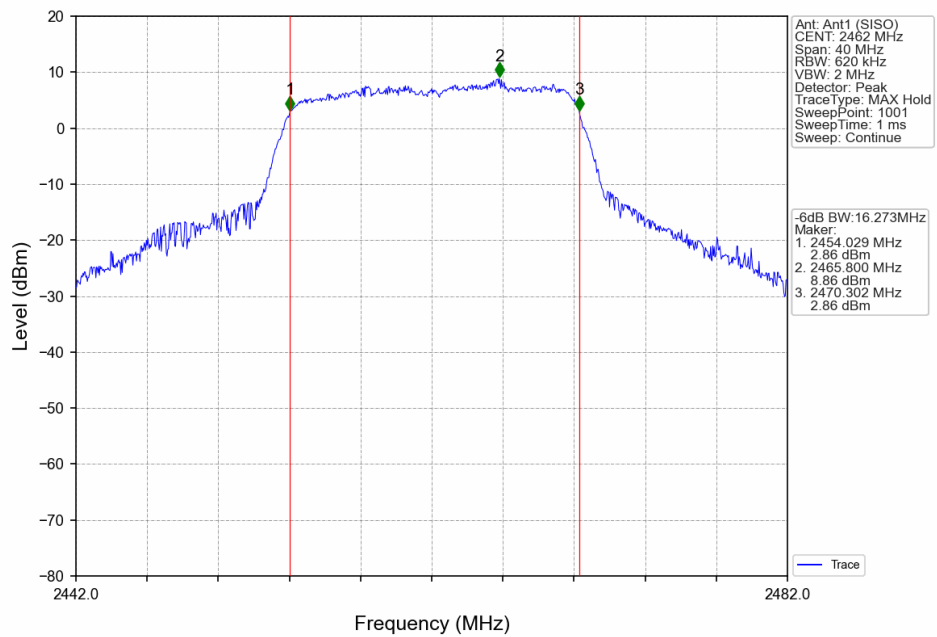




802.11g MCH 2437MHz Ant1 (SISO) NTN

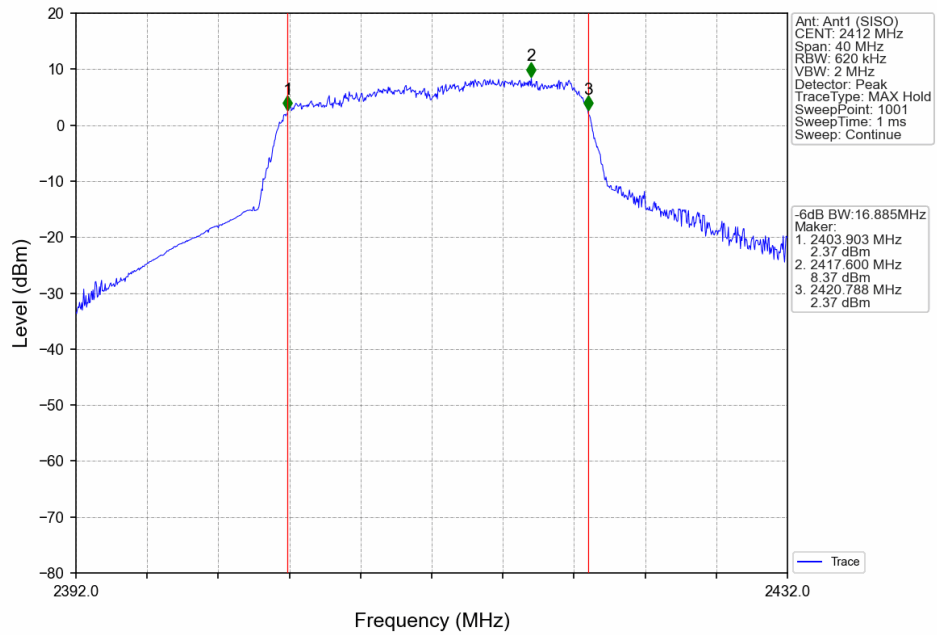


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

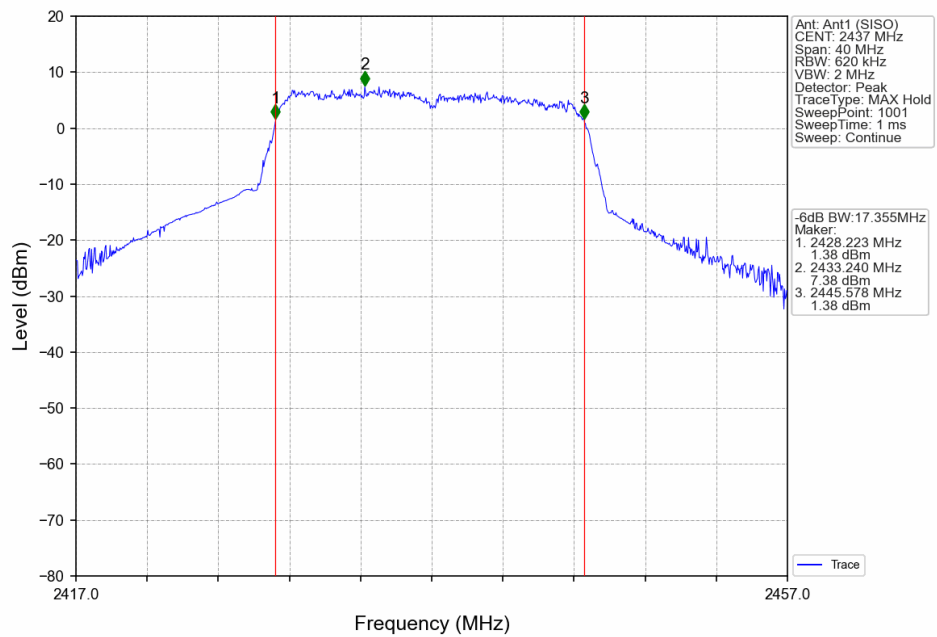




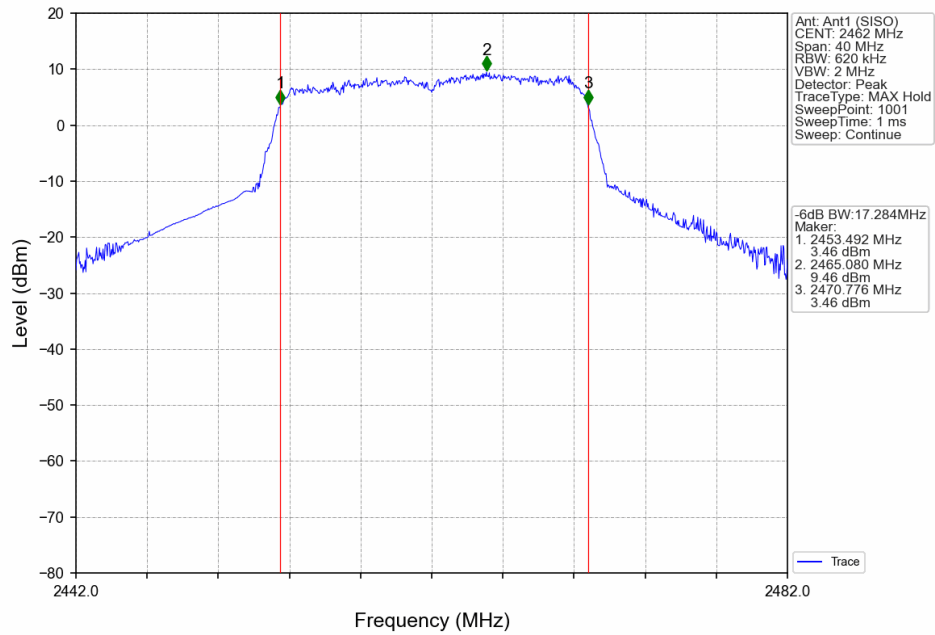
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTN



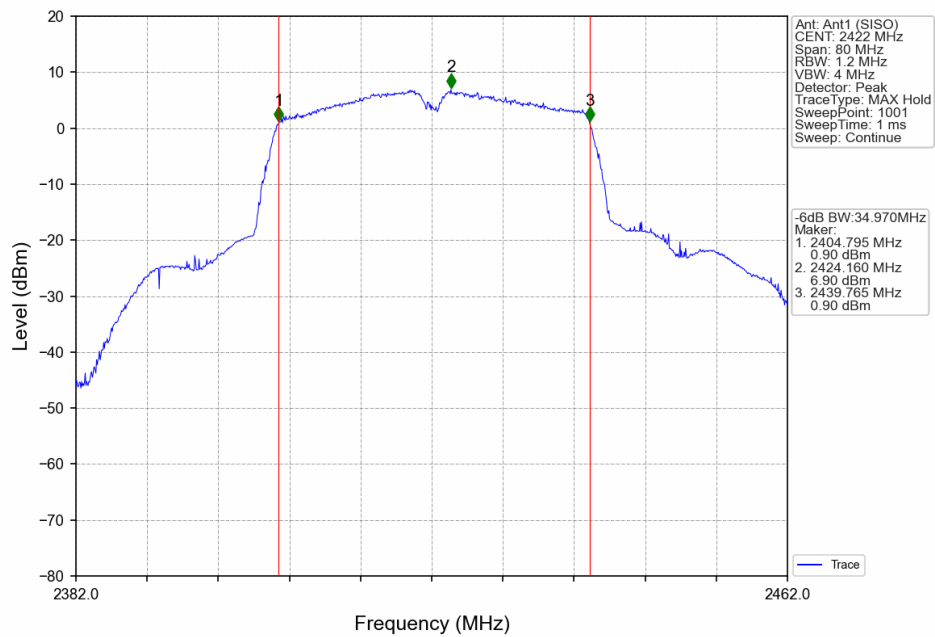
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTN



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

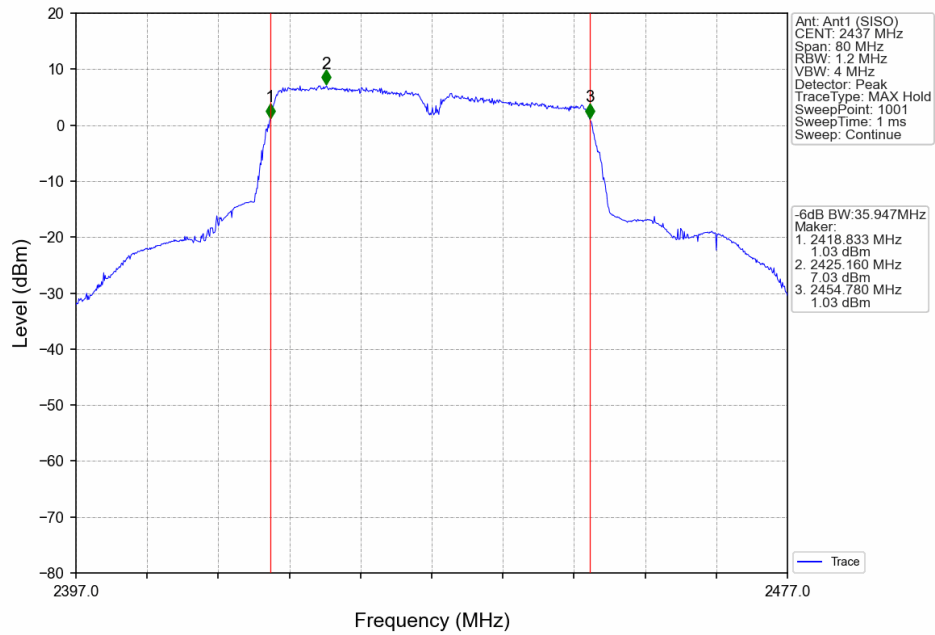


802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV

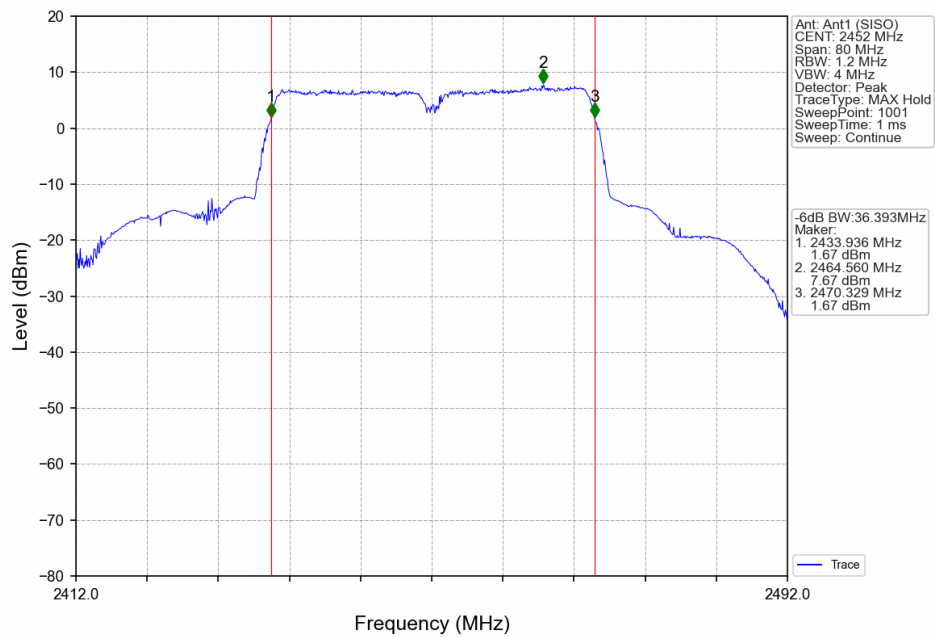




802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	1.30	<=30	Pass
		2437	3.46	<=30	Pass
		2462	2.99	<=30	Pass
802.11g	SISO	2412	6.22	<=30	Pass
		2437	5.07	<=30	Pass
		2462	3.01	<=30	Pass
802.11n (HT20)	SISO	2412	4.73	<=30	Pass
		2437	3.76	<=30	Pass
		2462	0.53	<=30	Pass
802.11n (HT40)	SISO	2422	1.49	<=30	Pass
		2437	1.41	<=30	Pass
		2452	7.07	<=30	Pass
Note1: Antenna Gain: Ant1: 2.51dBi;					



4. Maximum Power Spectral Density

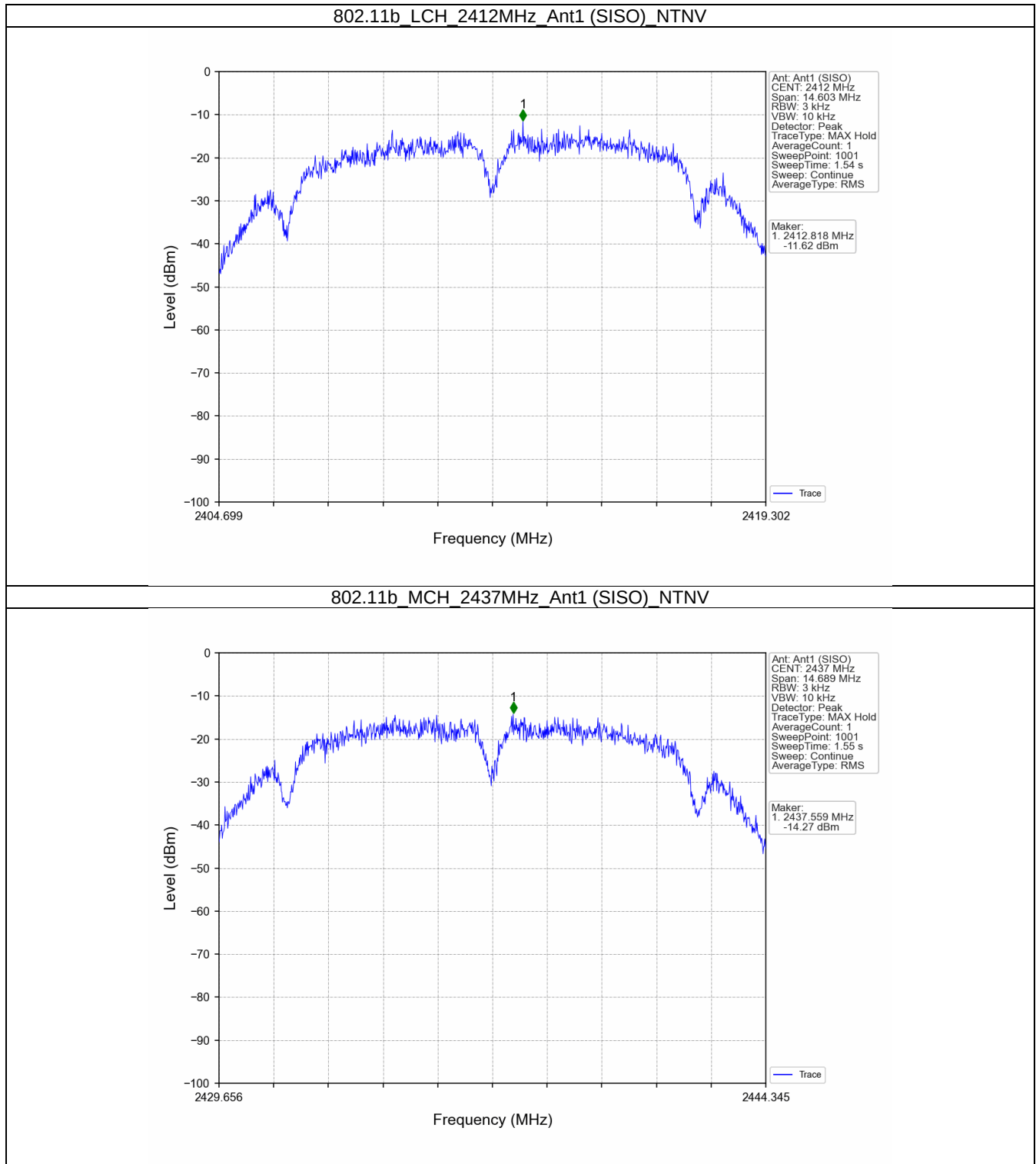
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-11.62	<=8	Pass
		2437	-14.27	<=8	Pass
		2462	-12.16	<=8	Pass
802.11g	SISO	2412	-12.86	<=8	Pass
		2437	-14.42	<=8	Pass
		2462	-12.68	<=8	Pass
802.11n (HT20)	SISO	2412	-13.24	<=8	Pass
		2437	-13.79	<=8	Pass
		2462	-12.76	<=8	Pass
802.11n (HT40)	SISO	2422	-18.59	<=8	Pass
		2437	-17.95	<=8	Pass
		2452	-17.39	<=8	Pass
Note1: Antenna Gain: Ant1: 2.51dBi;					

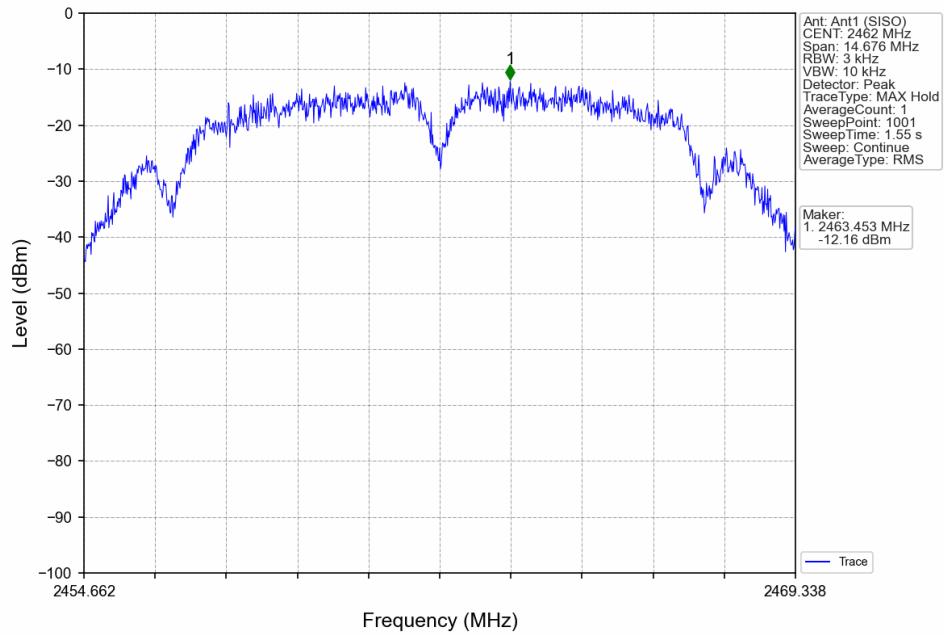


4.1.2 Test Graph

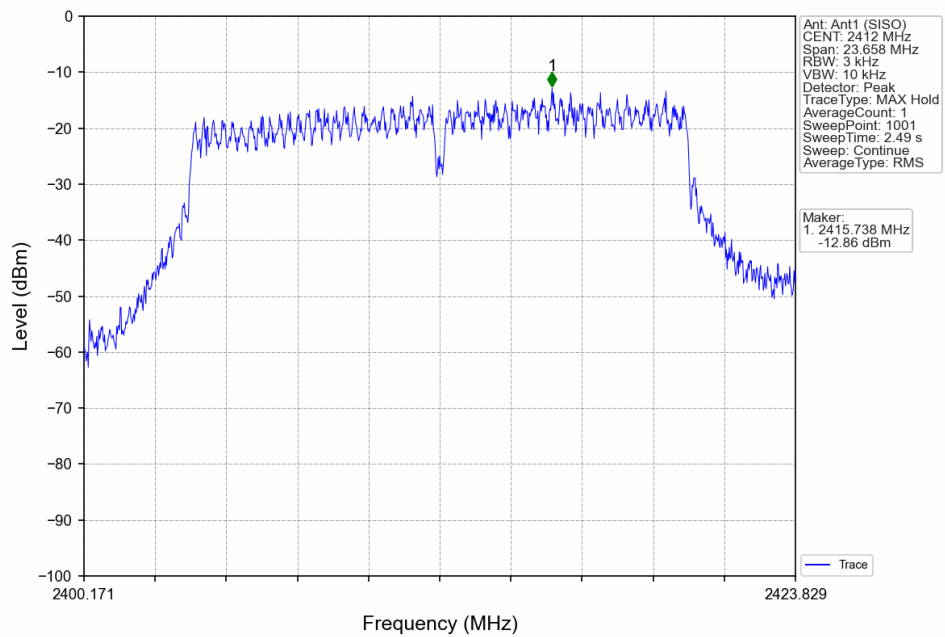




802.11b HCH 2462MHz Ant1 (SISO) NTNv

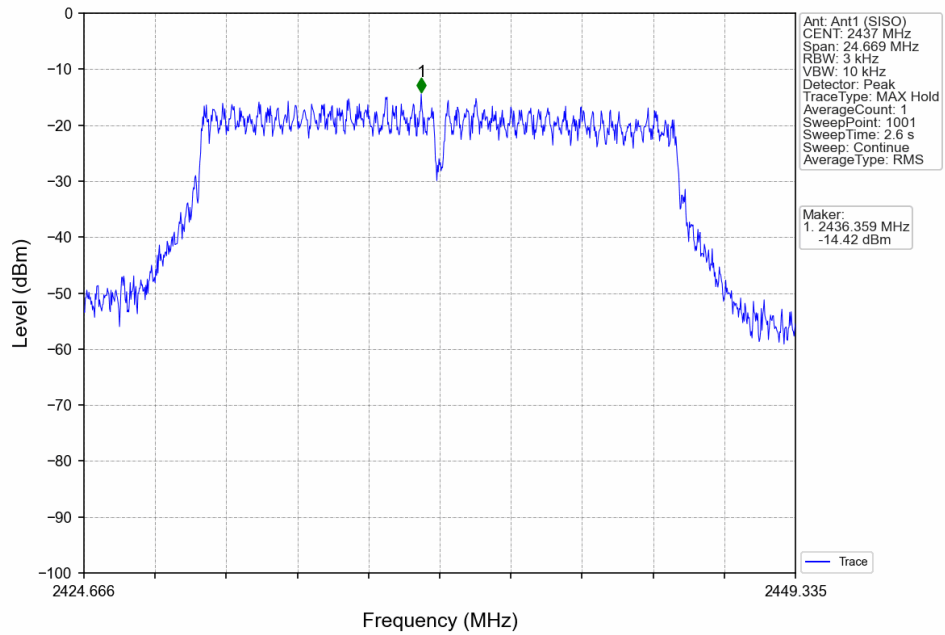


802.11g LCH 2412MHz Ant1 (SISO) NTNv

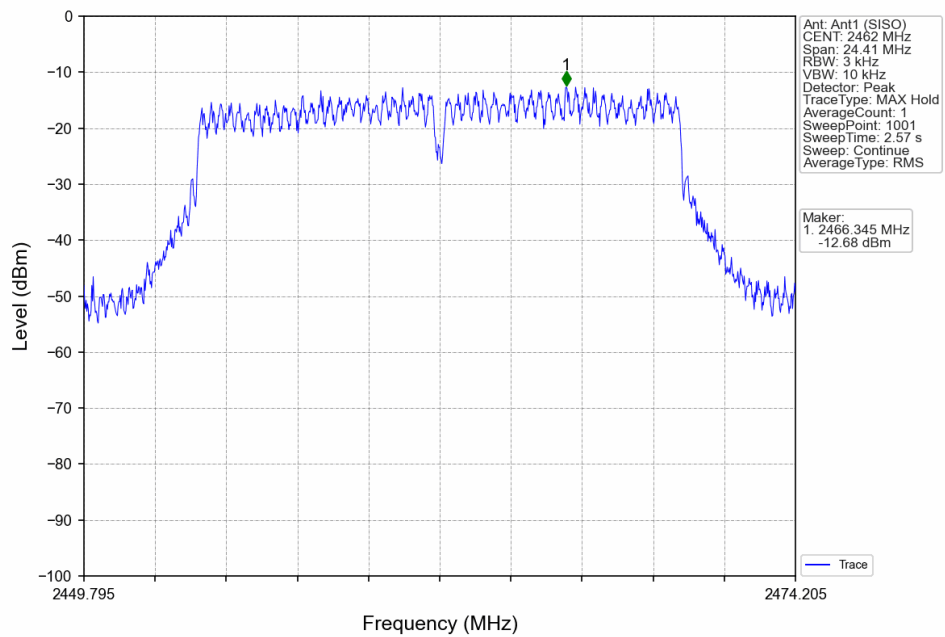




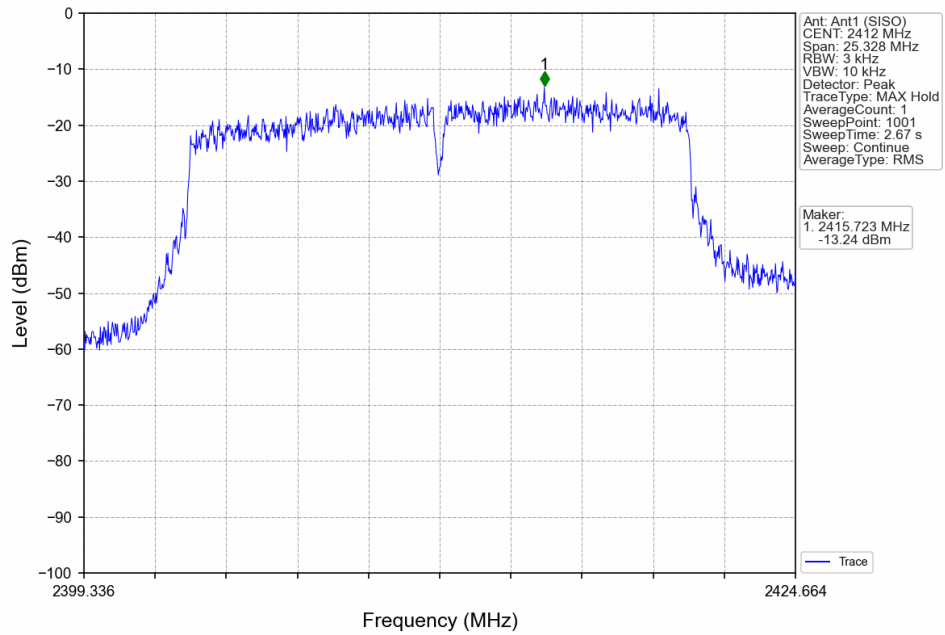
802.11g MCH 2437MHz Ant1 (SISO) NTN



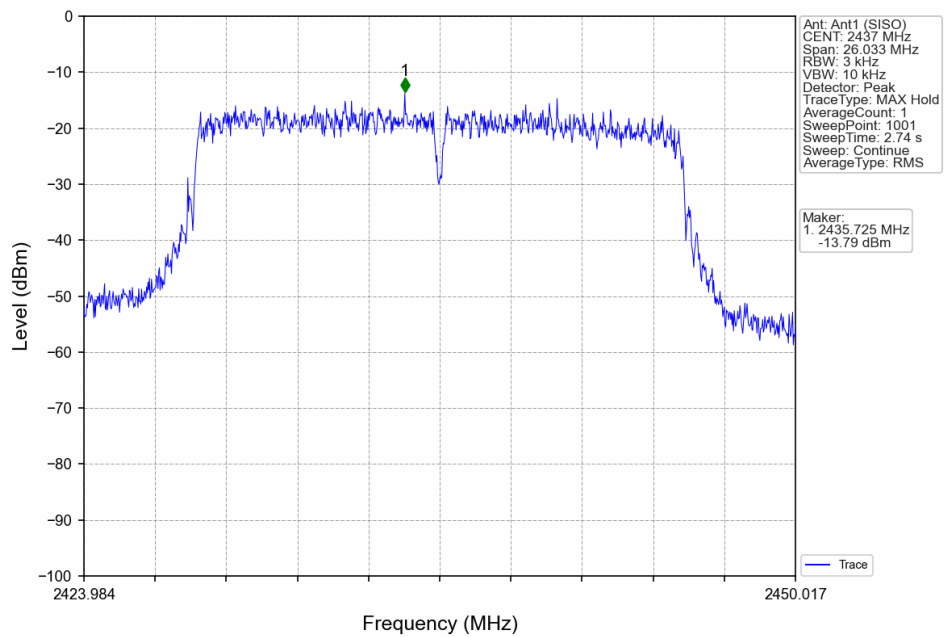
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



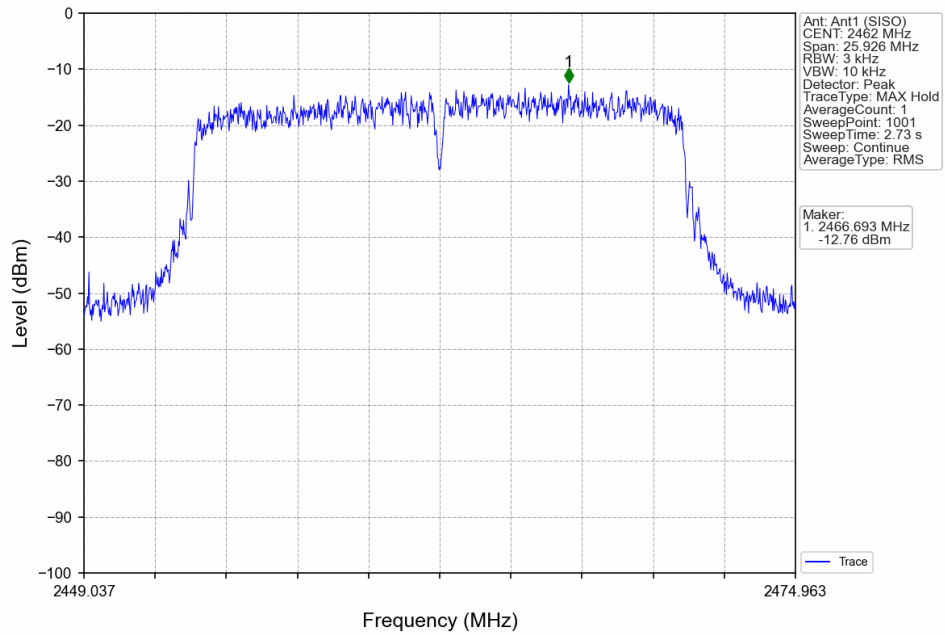
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



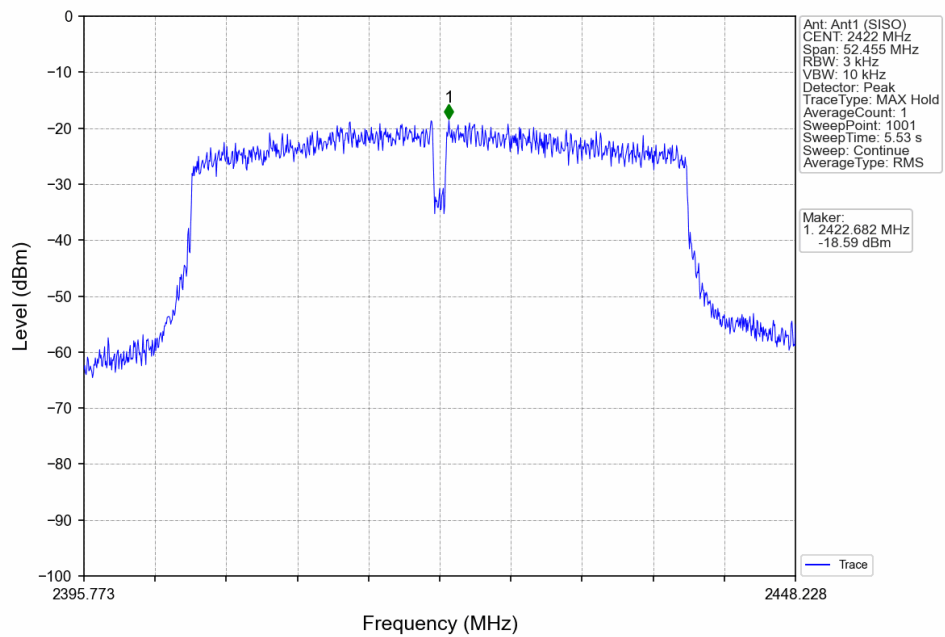
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



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

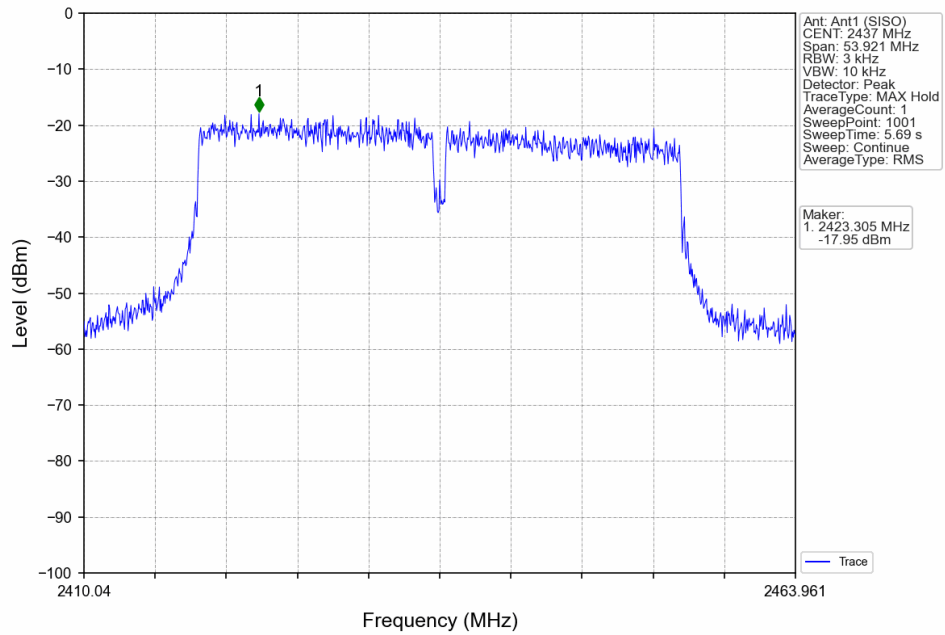


802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV

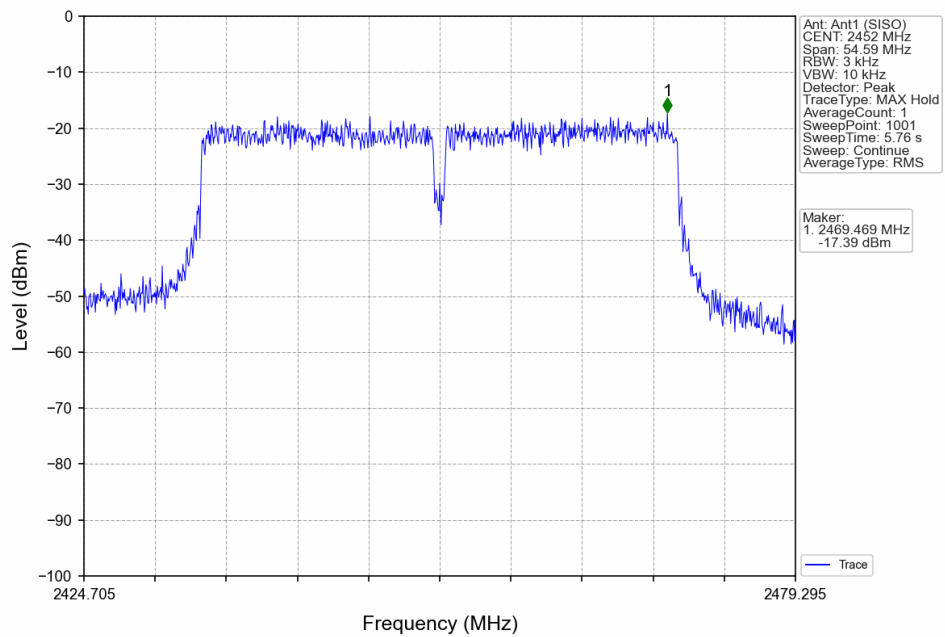




802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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





5. Unwanted Emissions In Non-restricted Frequency Bands

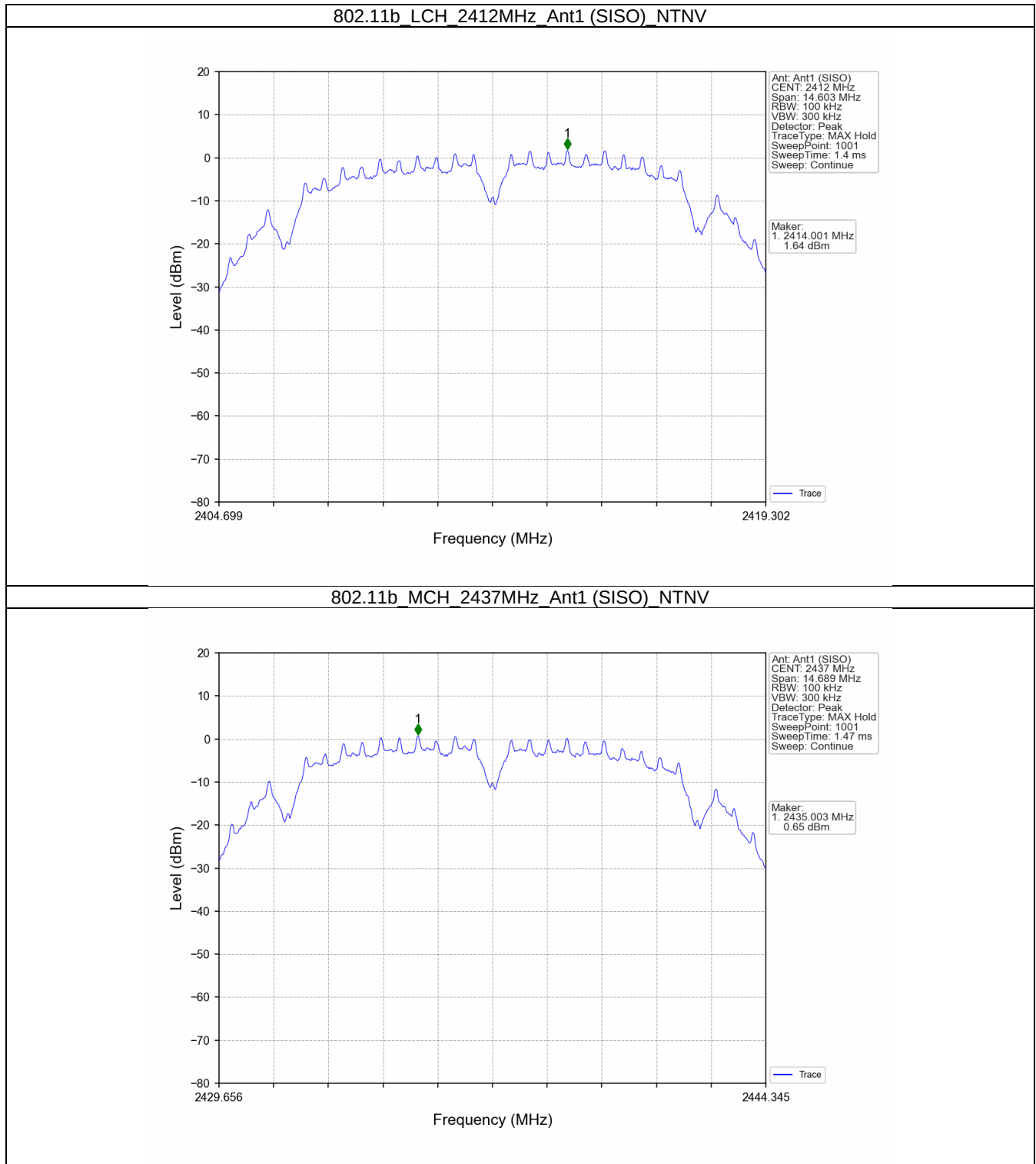
5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	1.64
		2437	1	0.65
		2462	1	2.87
802.11g	SISO	2412	1	1.43
		2437	1	0.40
		2462	1	2.56
802.11n (HT20)	SISO	2412	1	1.61
		2437	1	0.20
		2462	1	2.48
802.11n (HT40)	SISO	2422	1	-2.56
		2437	1	-2.53
		2452	1	-1.83
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.				

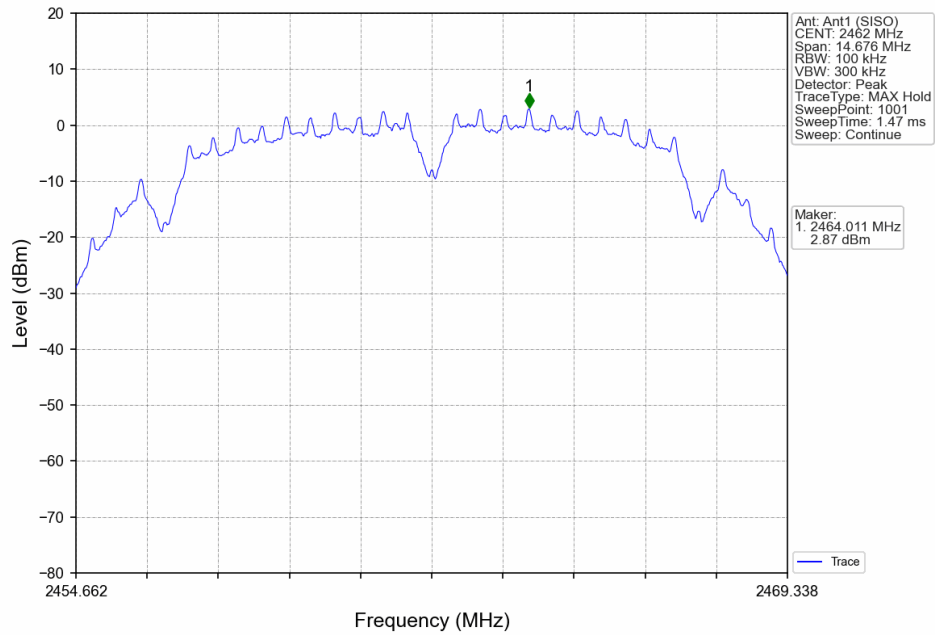


5.1.2 Test Graph

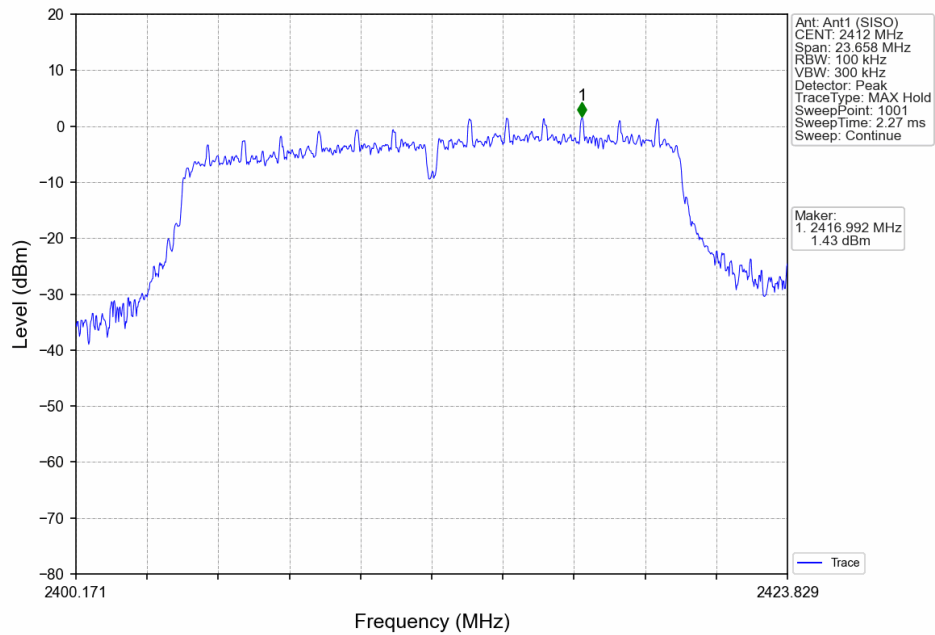




802.11b HCH 2462MHz Ant1 (SISO) NTN

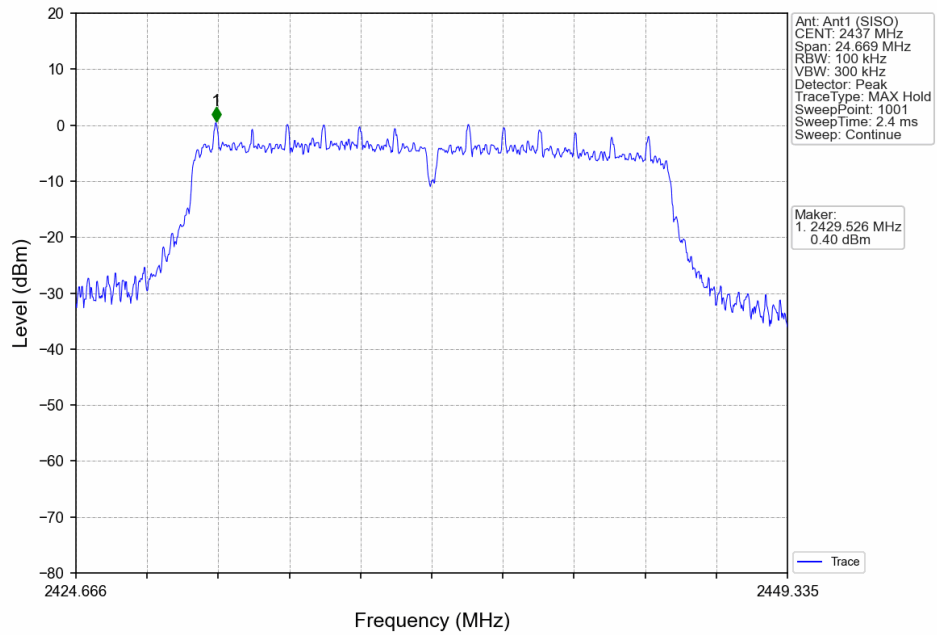


802.11g LCH 2412MHz Ant1 (SISO) NTN

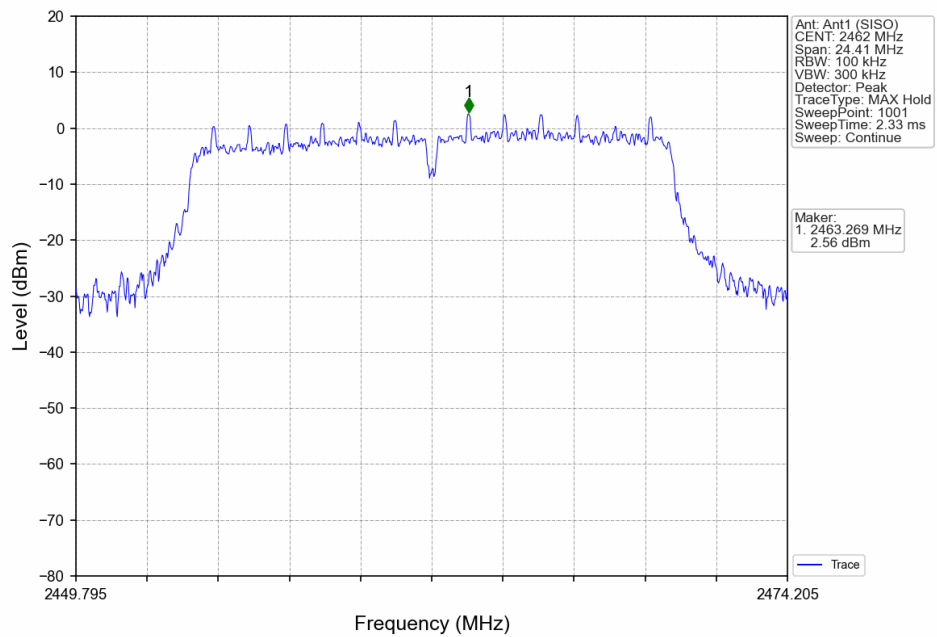




802.11g MCH 2437MHz Ant1 (SISO) NTN

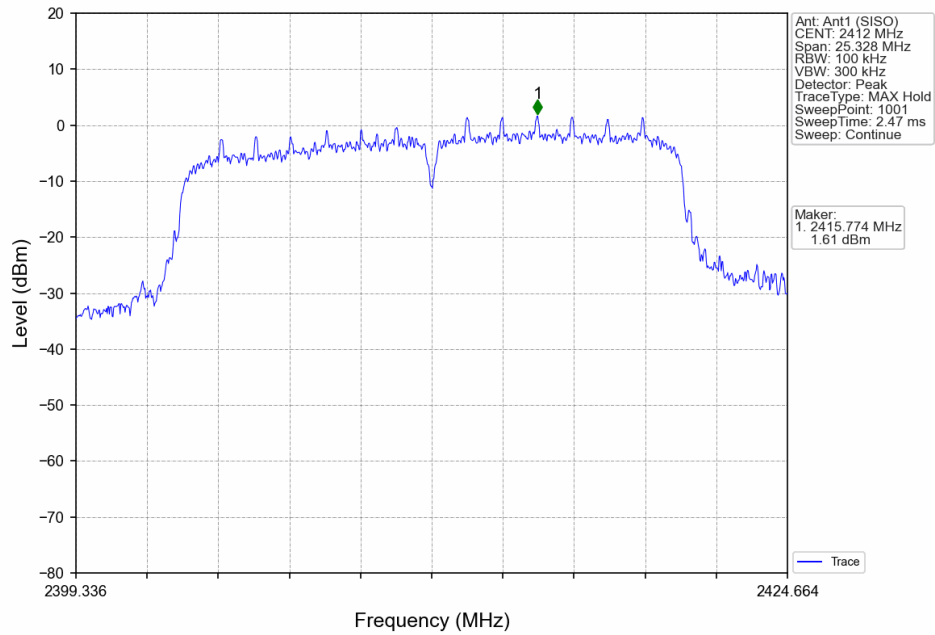


802.11g_HCH_2462MHz_Ant1 (SISO) NTN

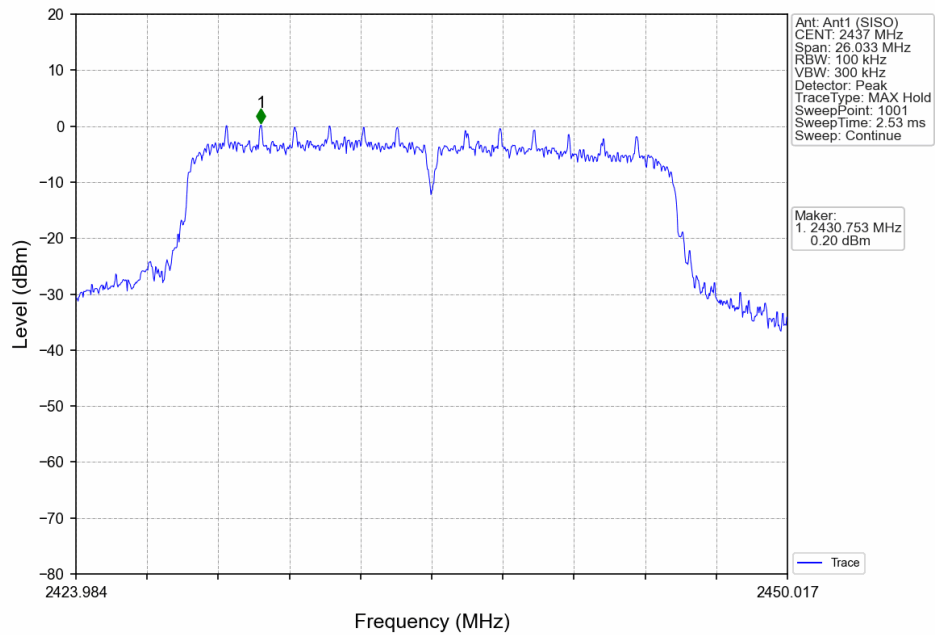




802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

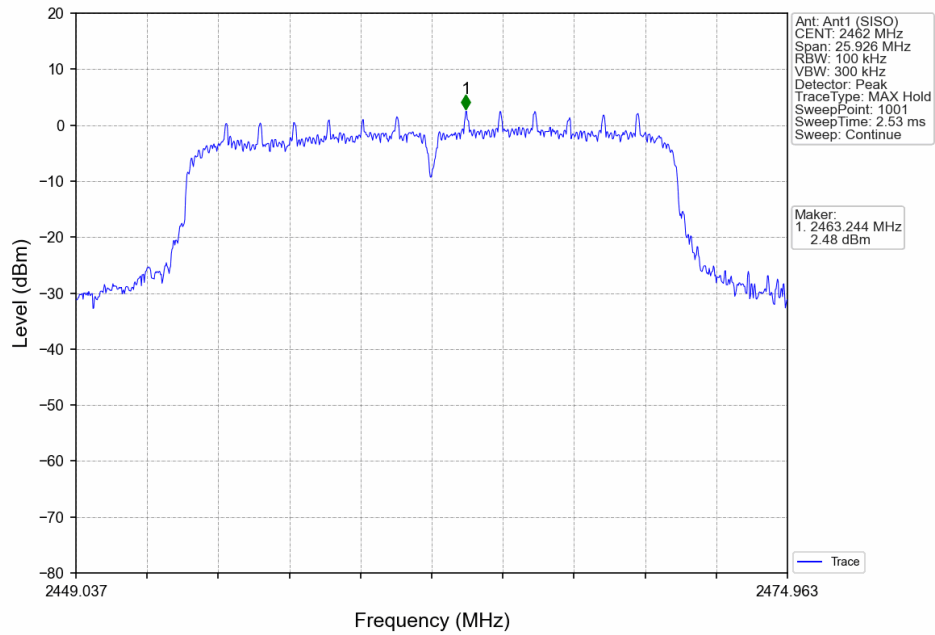


802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV

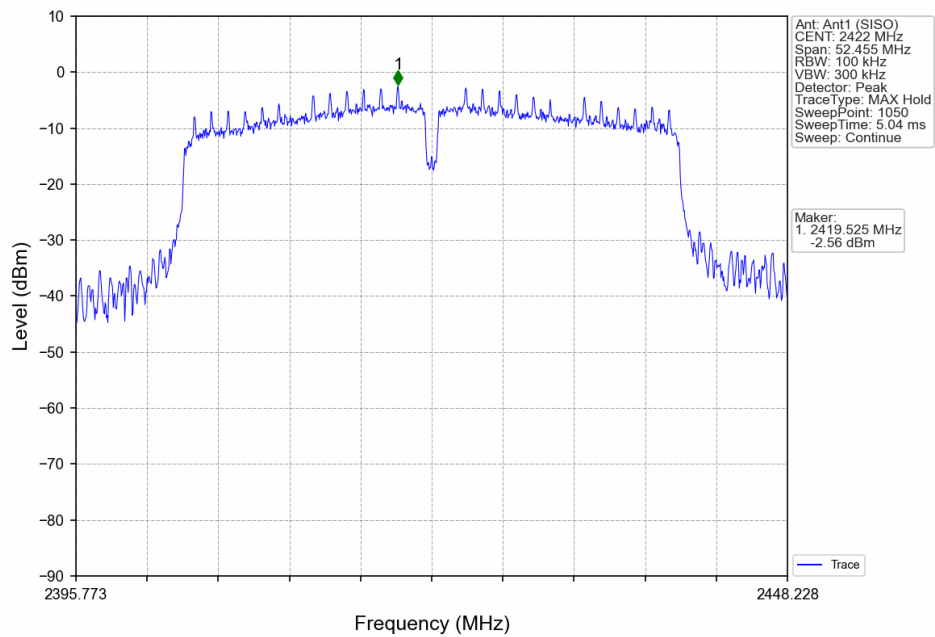




802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV

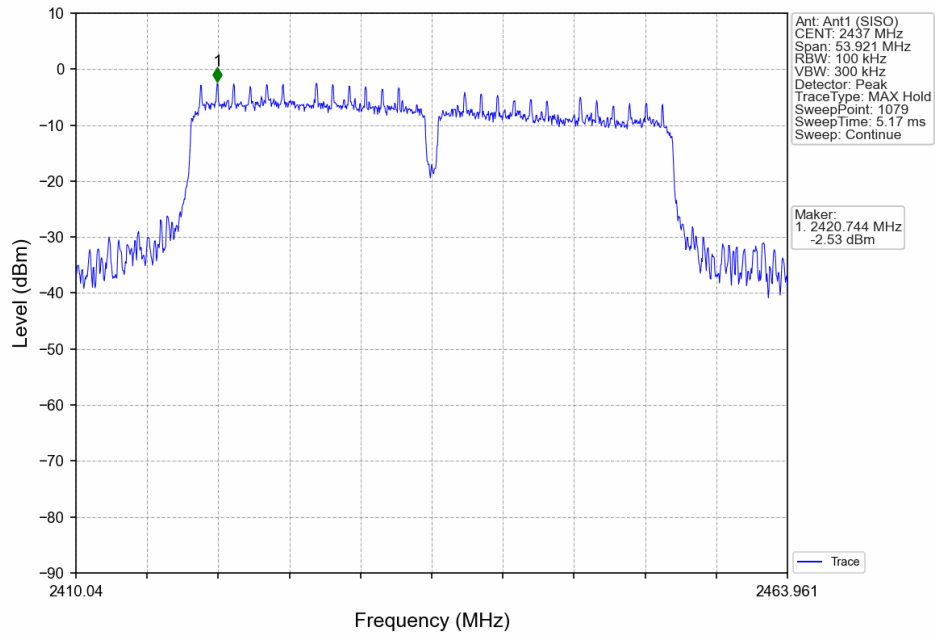


802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV

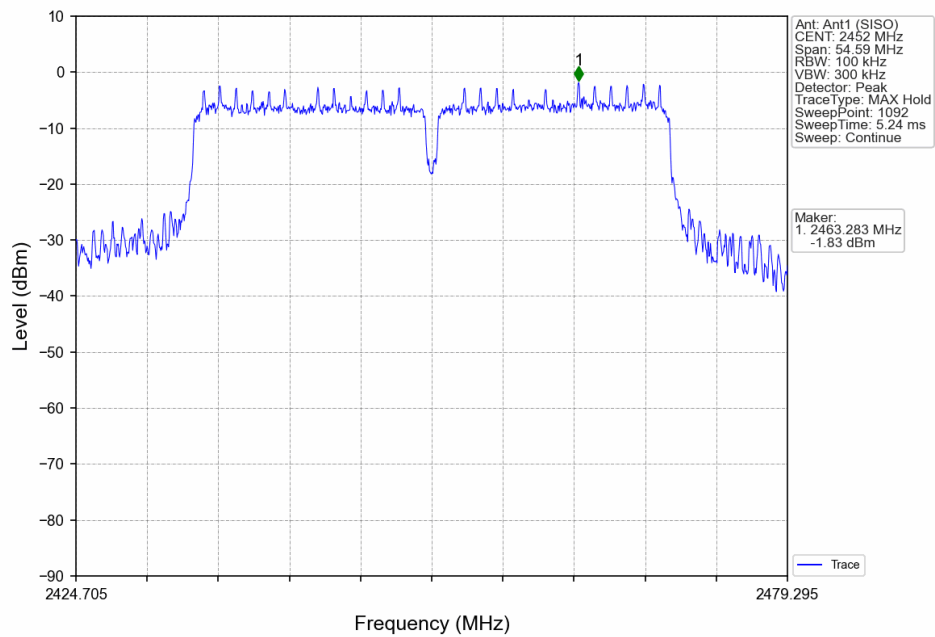




802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV



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

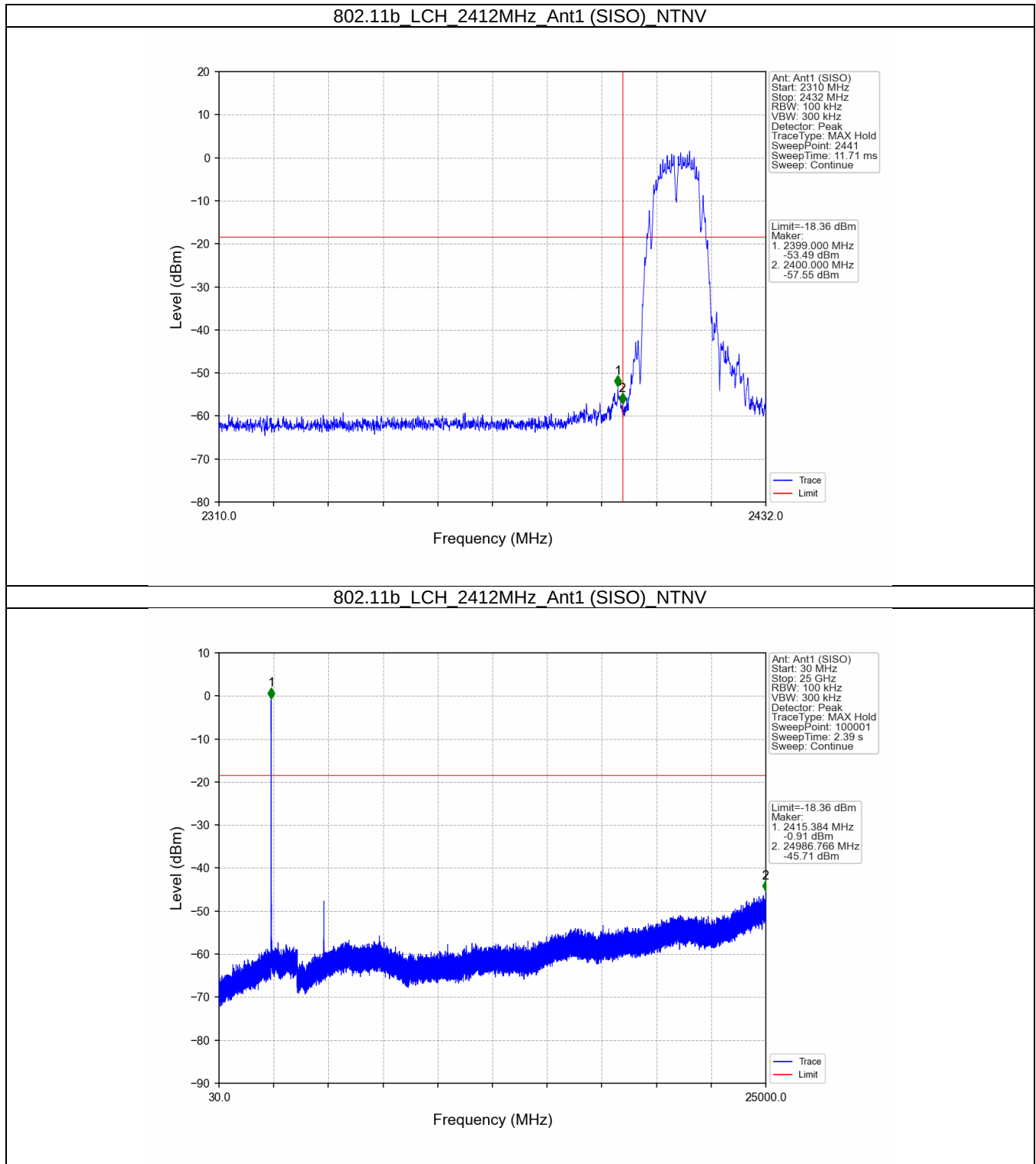


5.2 CSE

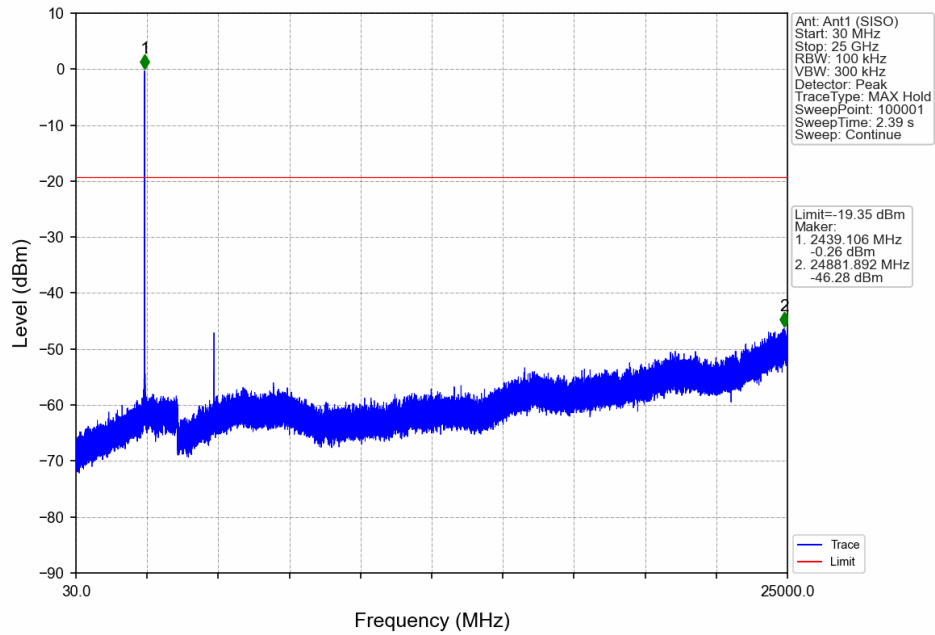
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	1.64	-18.36	Pass
		2437	1	0.65	-19.35	Pass
		2462	1	2.87	-17.13	Pass
802.11g	SISO	2412	1	1.43	-18.57	Pass
		2437	1	0.40	-19.60	Pass
		2462	1	2.56	-17.44	Pass
802.11n (HT20)	SISO	2412	1	1.61	-18.39	Pass
		2437	1	0.20	-19.80	Pass
		2462	1	2.48	-17.52	Pass
802.11n (HT40)	SISO	2422	1	-2.56	-22.56	Pass
		2437	1	-2.53	-22.53	Pass
		2452	1	-1.83	-21.83	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.						

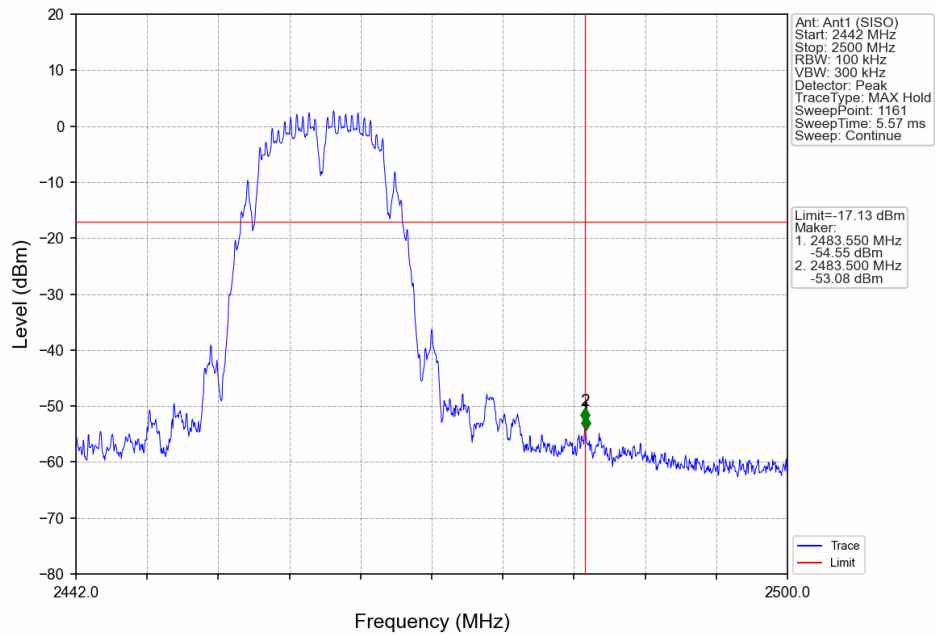
5.2.2 Test Graph



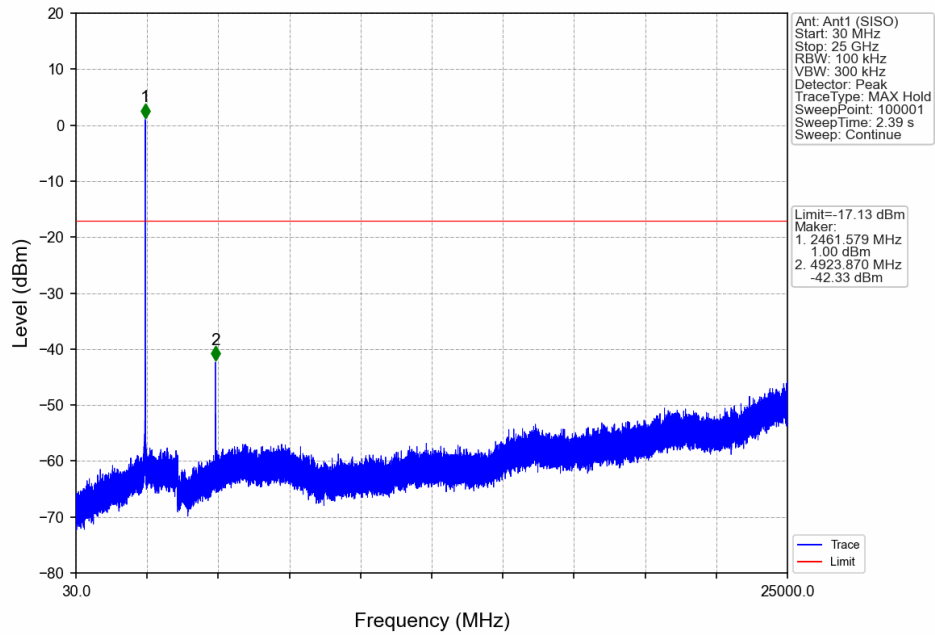
802.11b MCH 2437MHz Ant1 (SISO) NTN



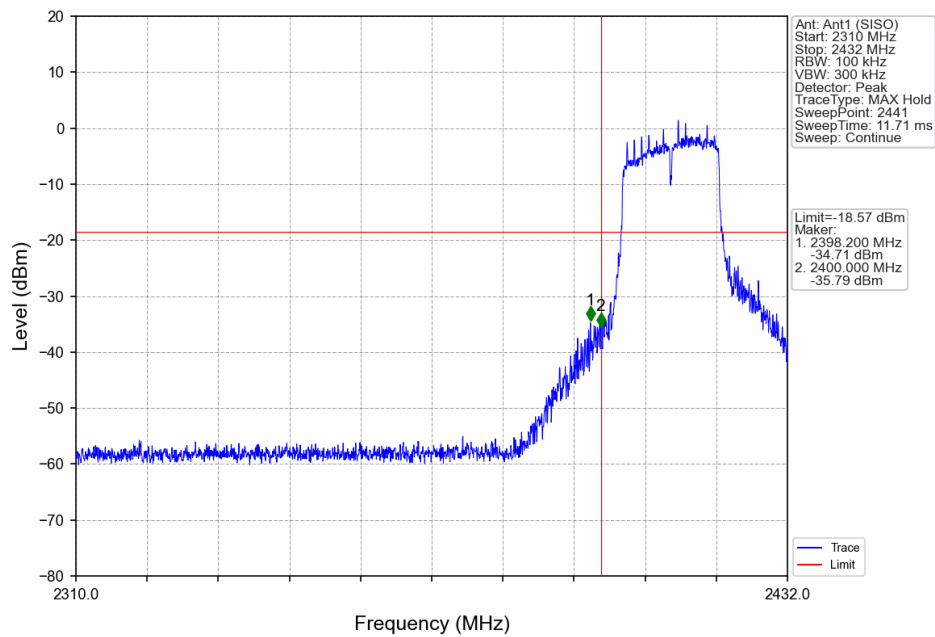
802.11b_HCH_2462MHz_Ant1 (SISO)_NTN



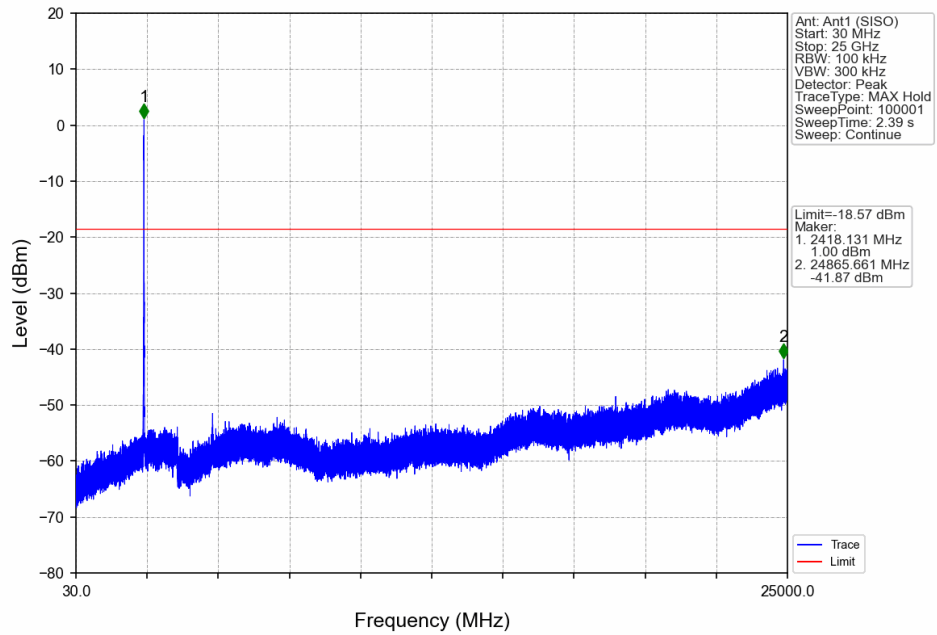
802.11b HCH 2462MHz Ant1 (SISO) NTN



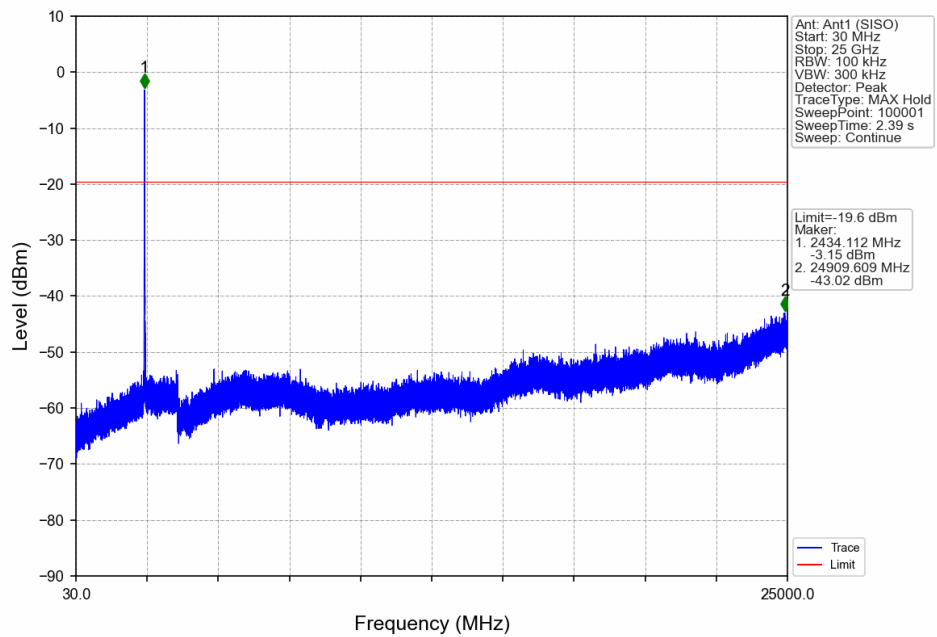
802.11g LCH 2412MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN

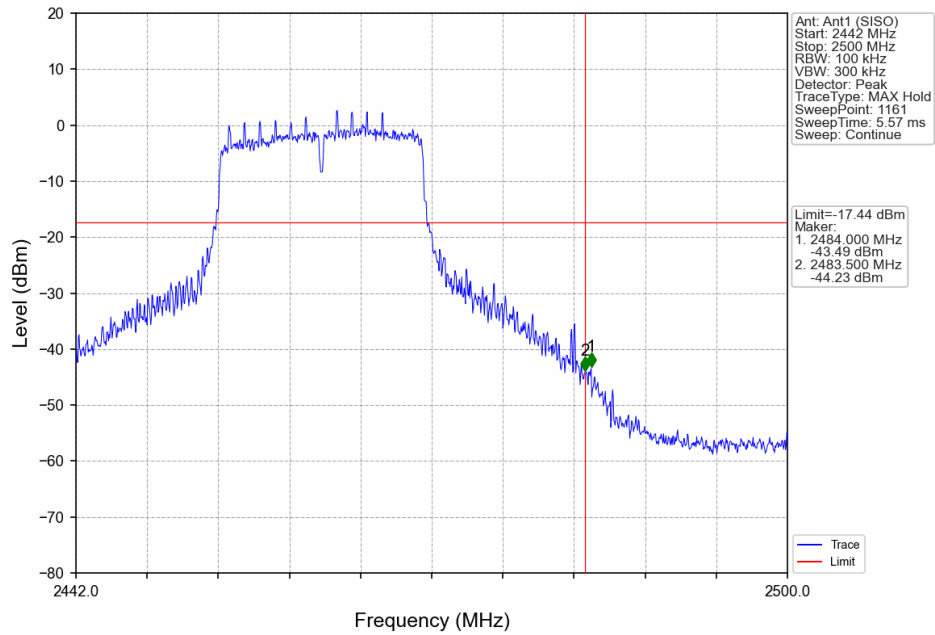


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

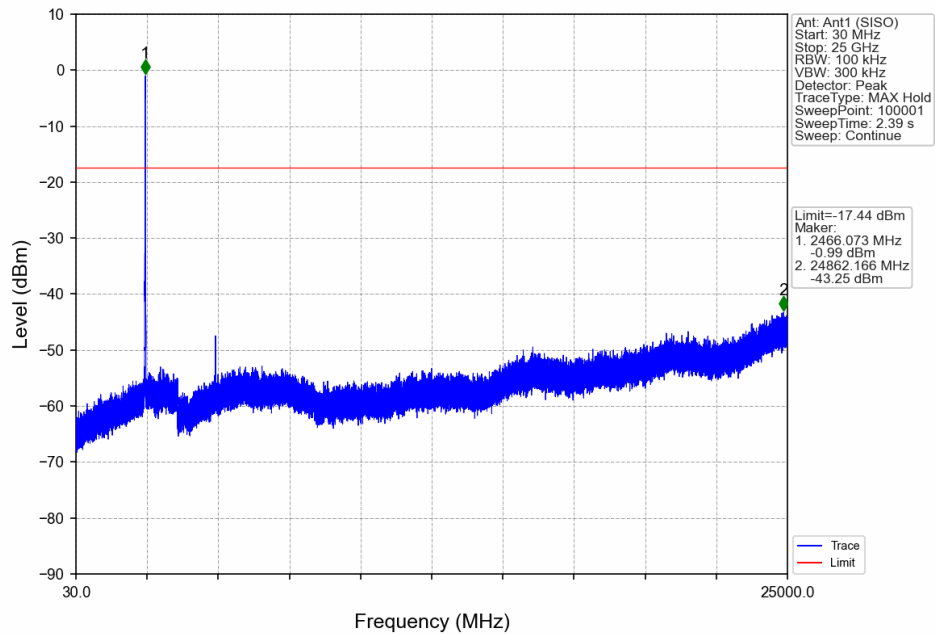




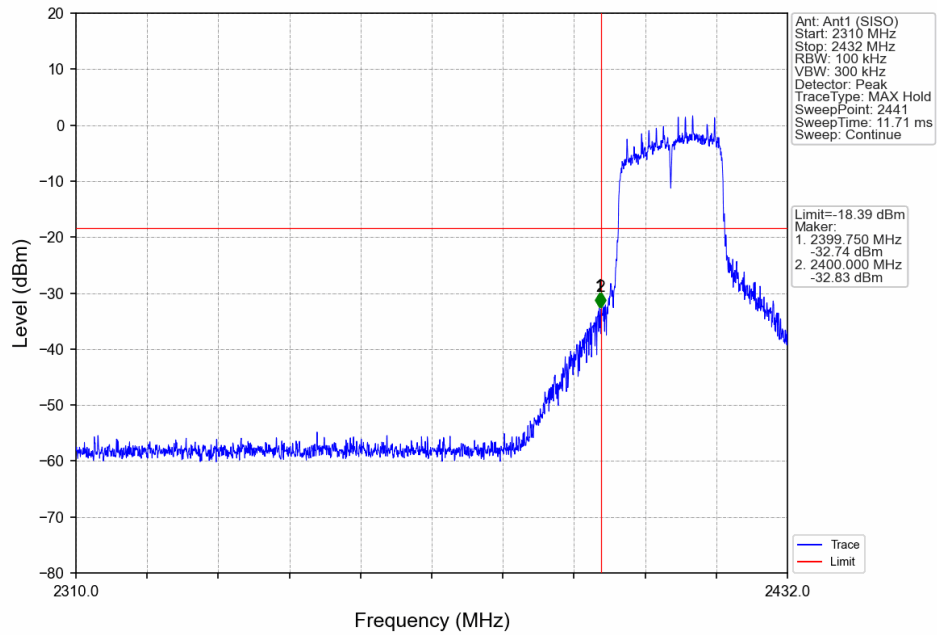
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



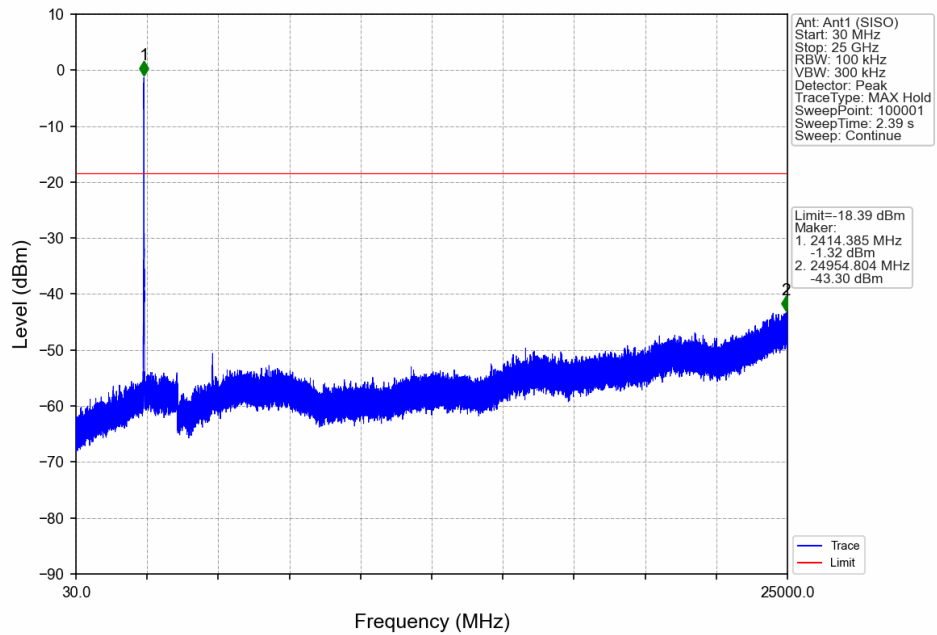
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



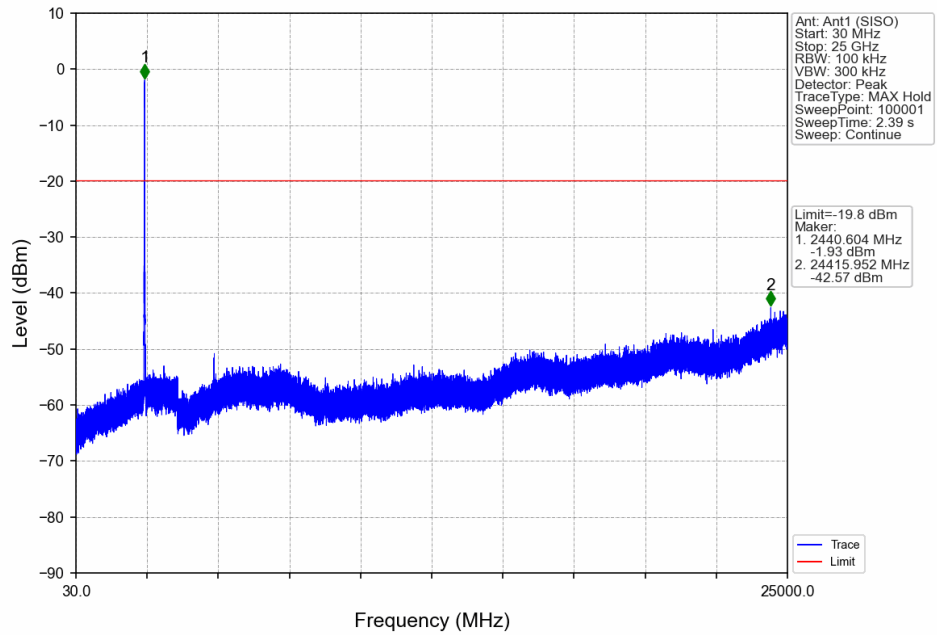
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



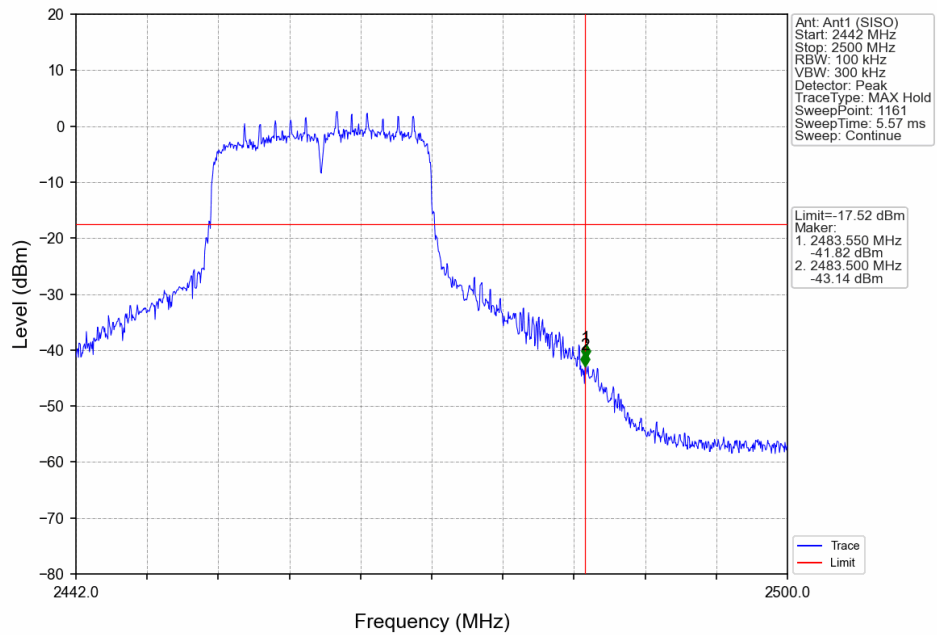
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



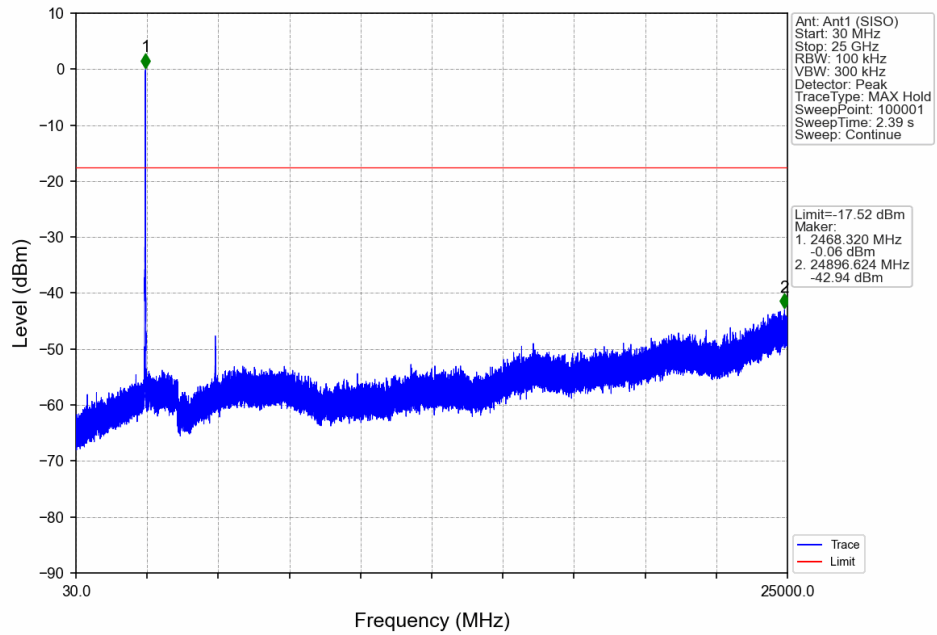
802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV



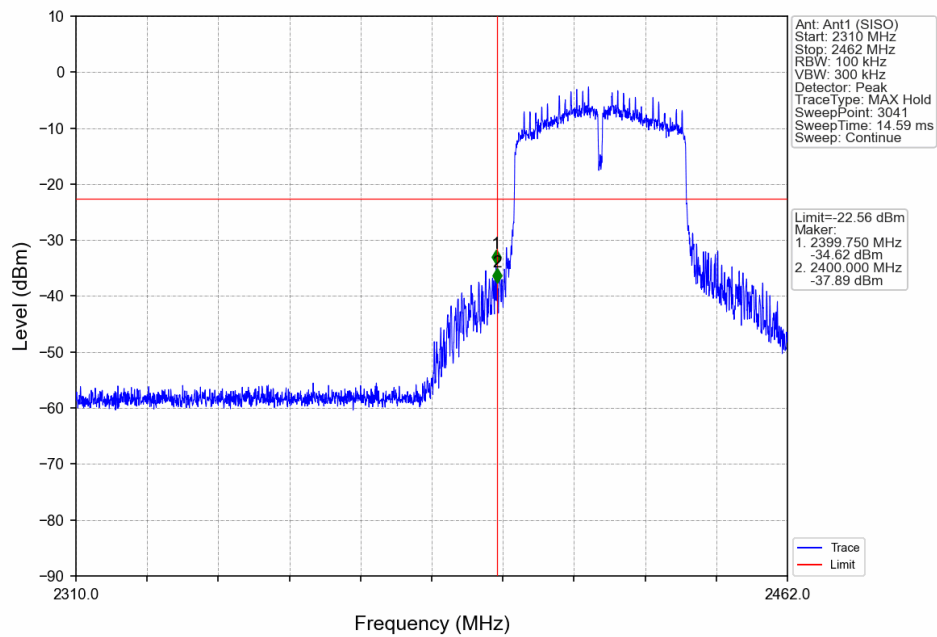
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



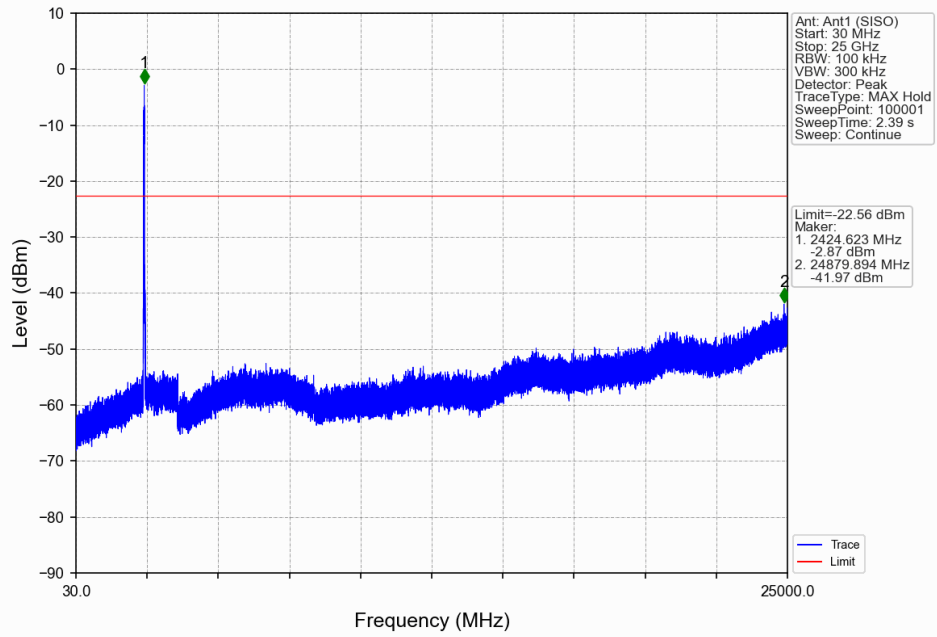
802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



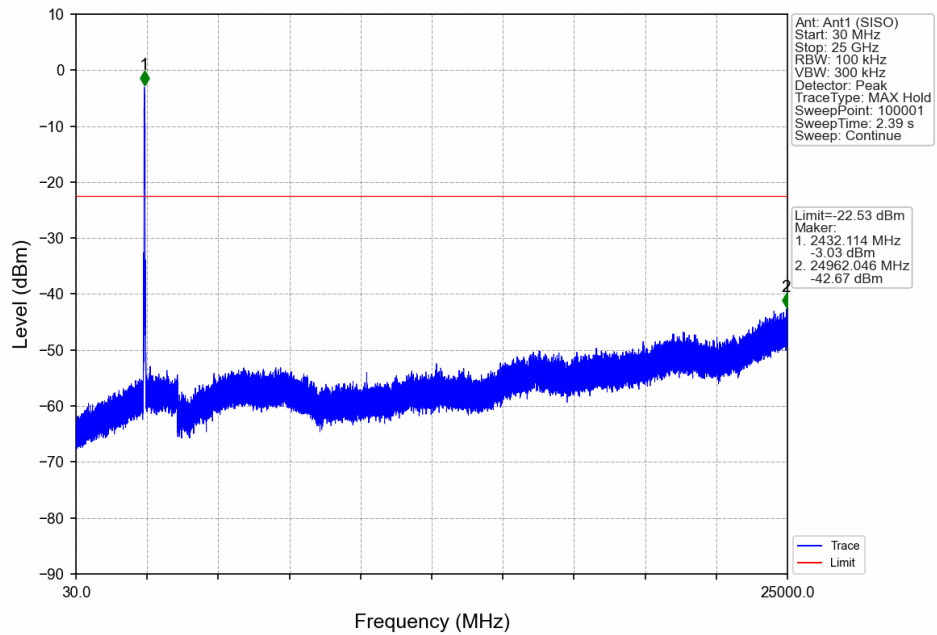
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



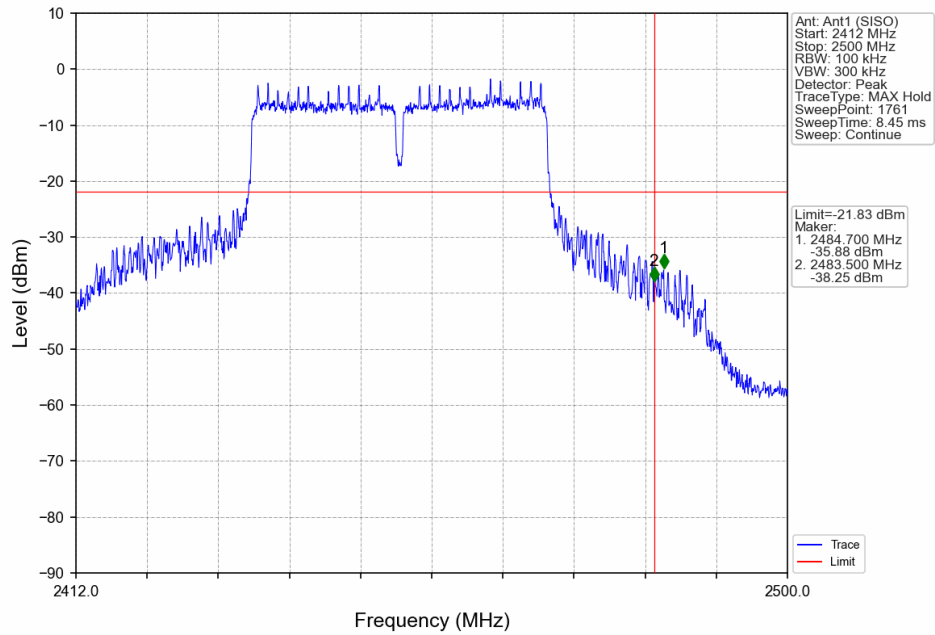
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTVN



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



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



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

