

1. Duty Cycle

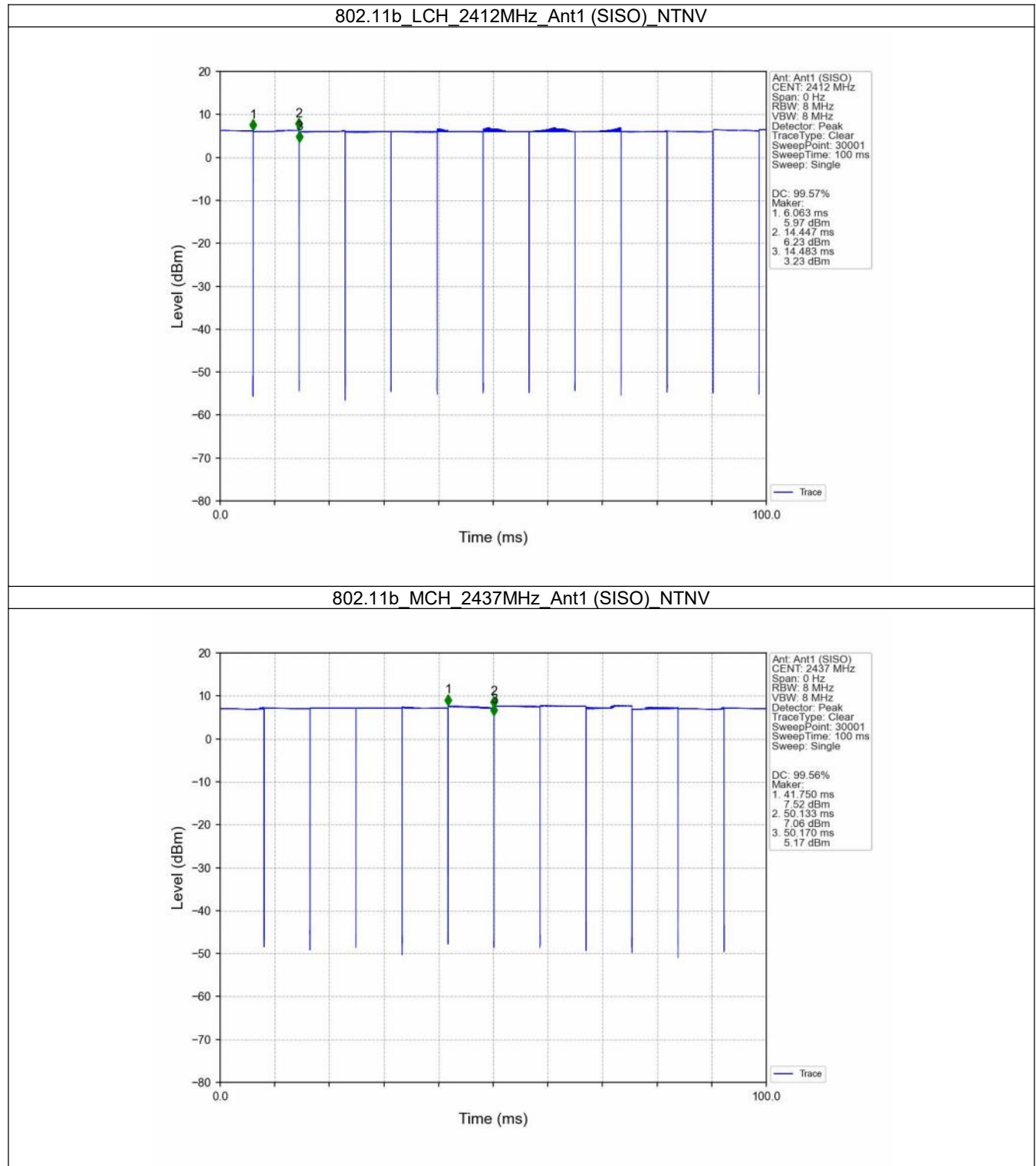
1.1 Test Result

1.1.1 Ant1

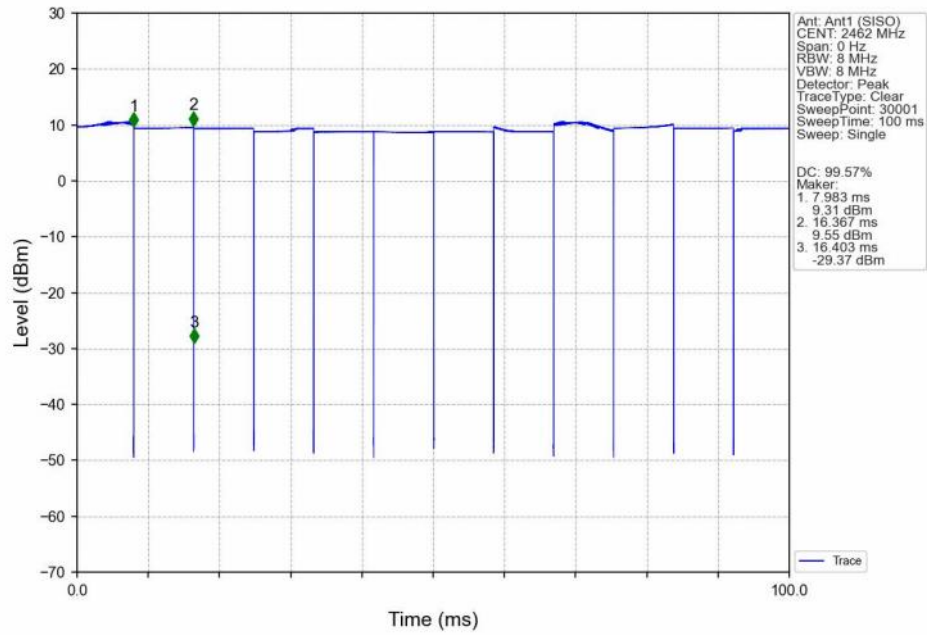
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.384	8.420	99.57	0.02	0.00
		2437	8.383	8.420	99.56	0.02	0.04
		2462	8.384	8.420	99.57	0.02	0.04
802.11g	SISO	2412	1.392	1.428	97.48	0.11	0.06
		2437	1.392	1.427	97.55	0.11	0.03
		2462	1.394	1.437	97.01	0.13	0.03
802.11n (HT20)	SISO	2412	1.301	1.336	97.38	0.12	0.07
		2437	1.300	1.336	97.31	0.12	0.03
		2462	1.302	1.345	96.80	0.14	0.03
802.11n (HT40)	SISO	2422	0.649	0.683	95.02	0.22	0.03
		2437	0.648	0.683	94.88	0.23	0.04
		2452	0.648	0.683	94.88	0.23	0.07

1.2 Test Graph

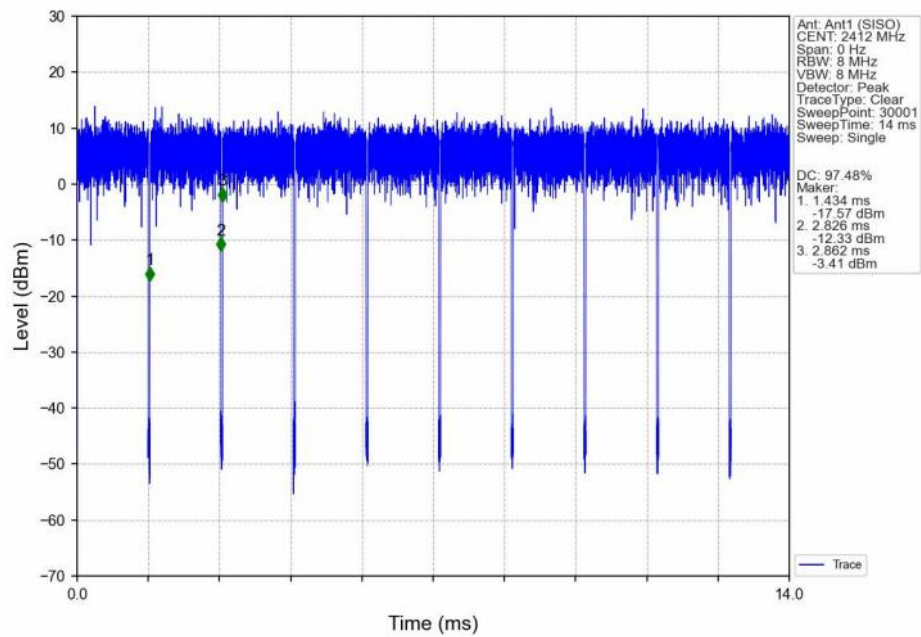
1.2.1 Ant1



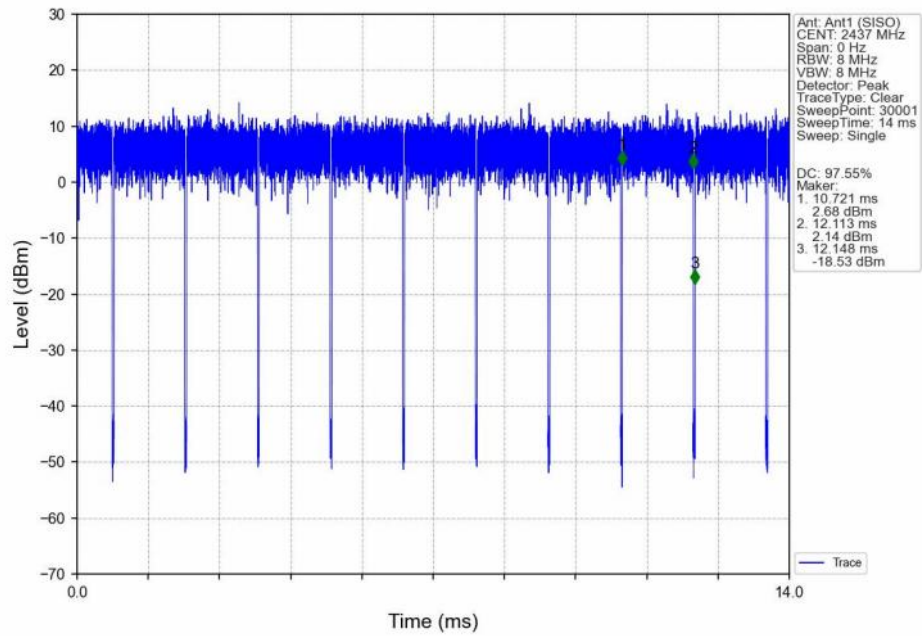
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



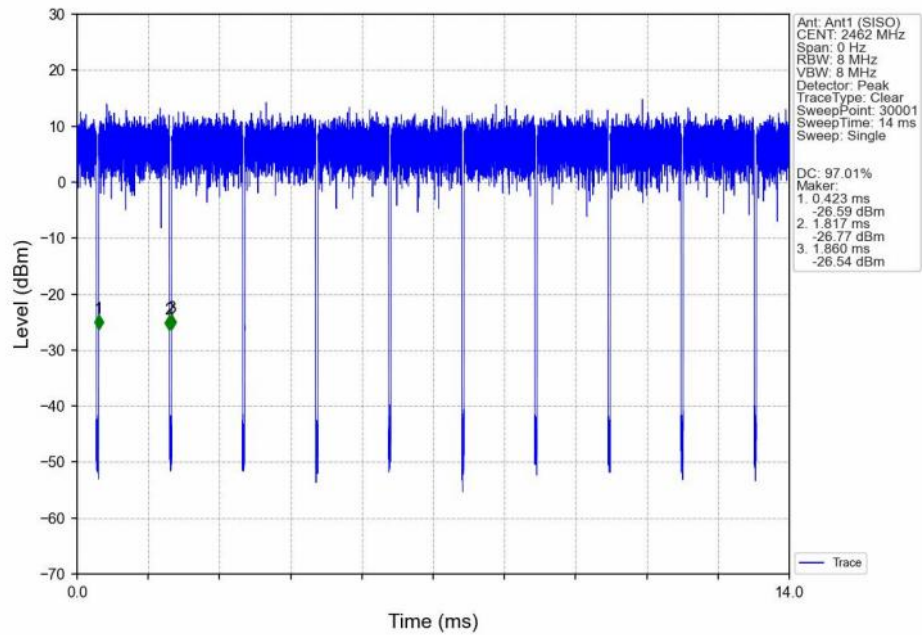
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



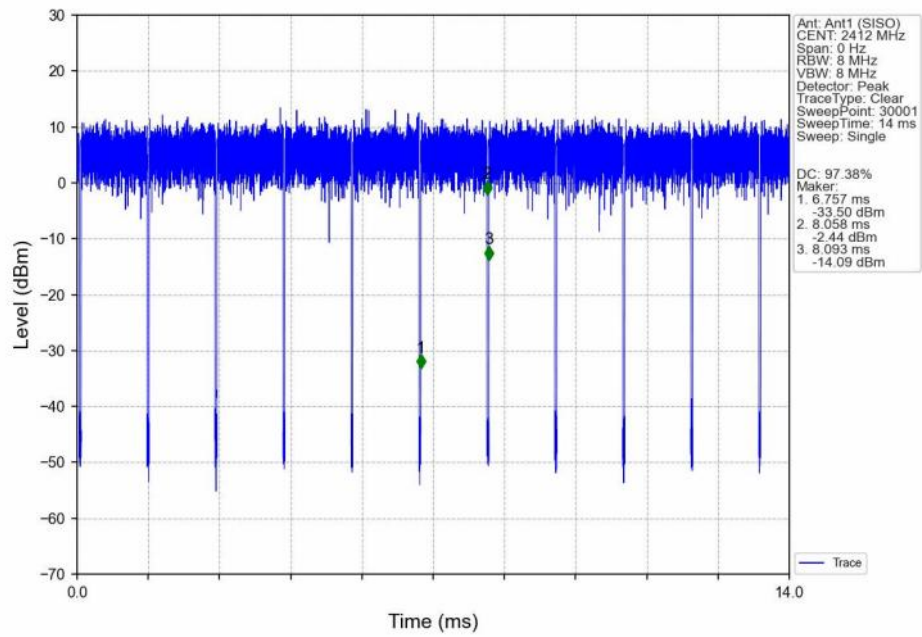
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



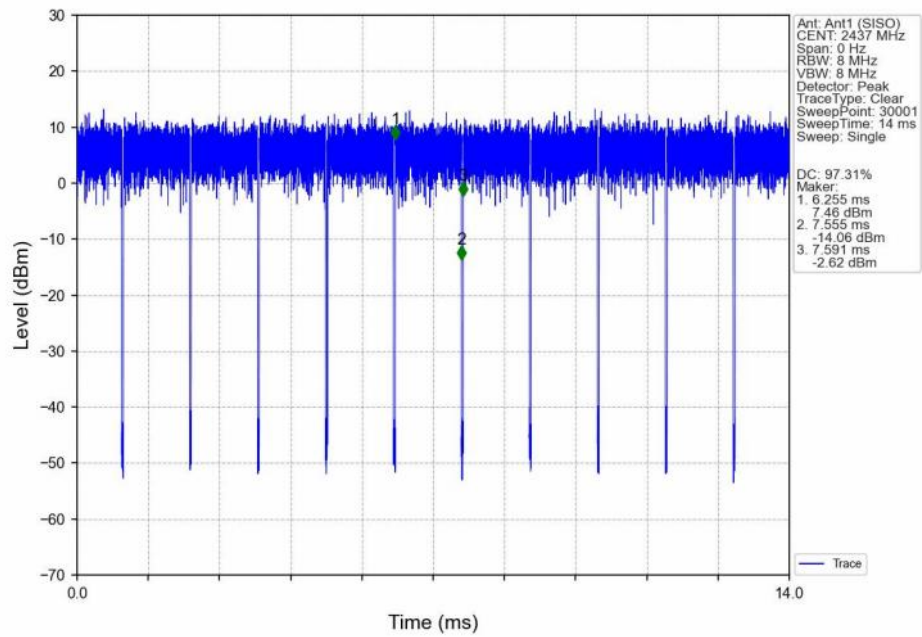
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



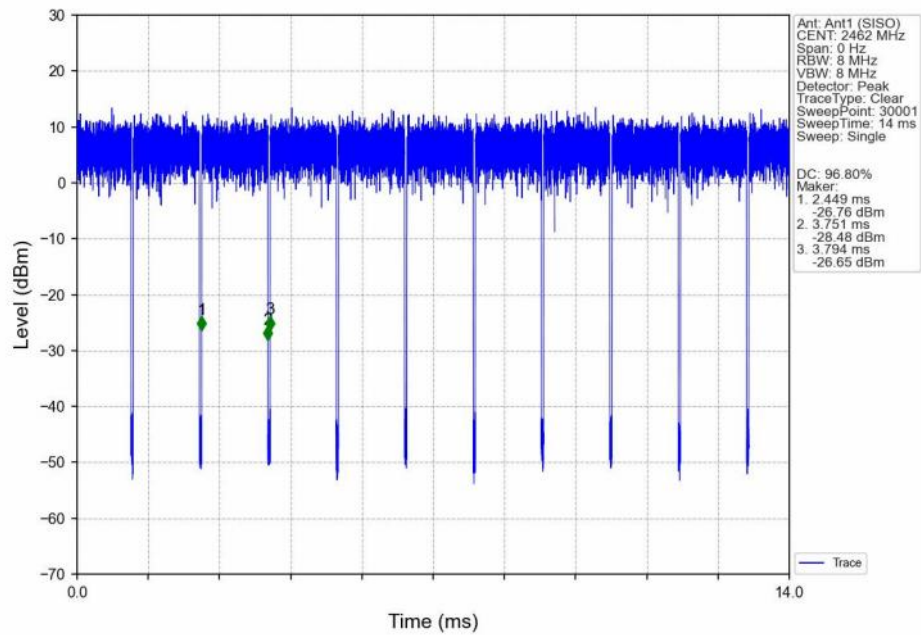
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



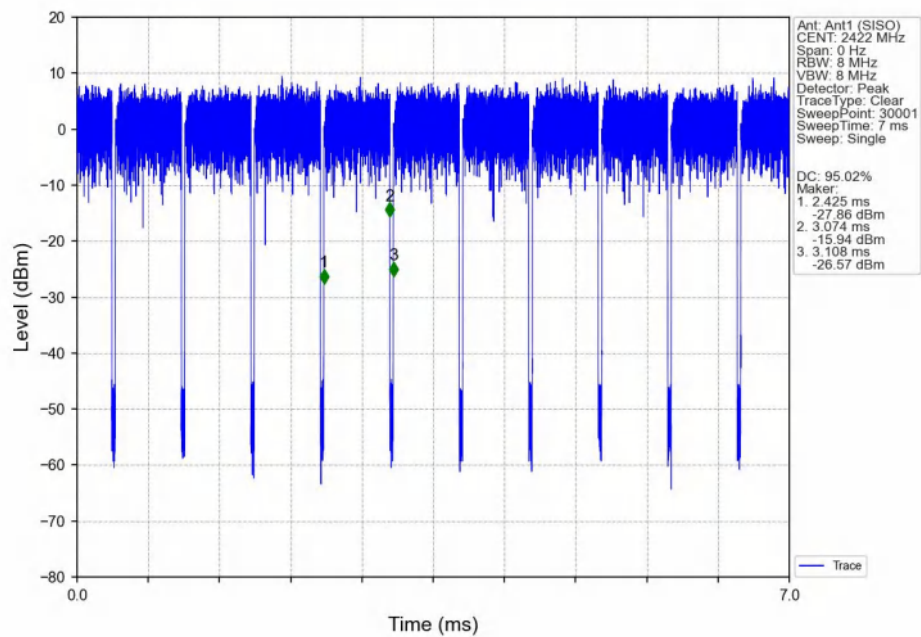
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



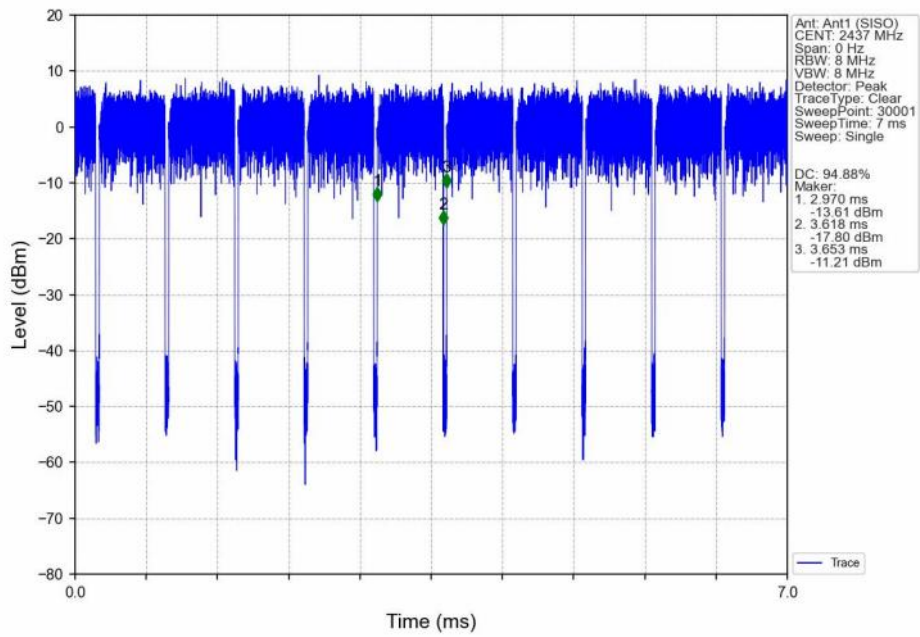
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



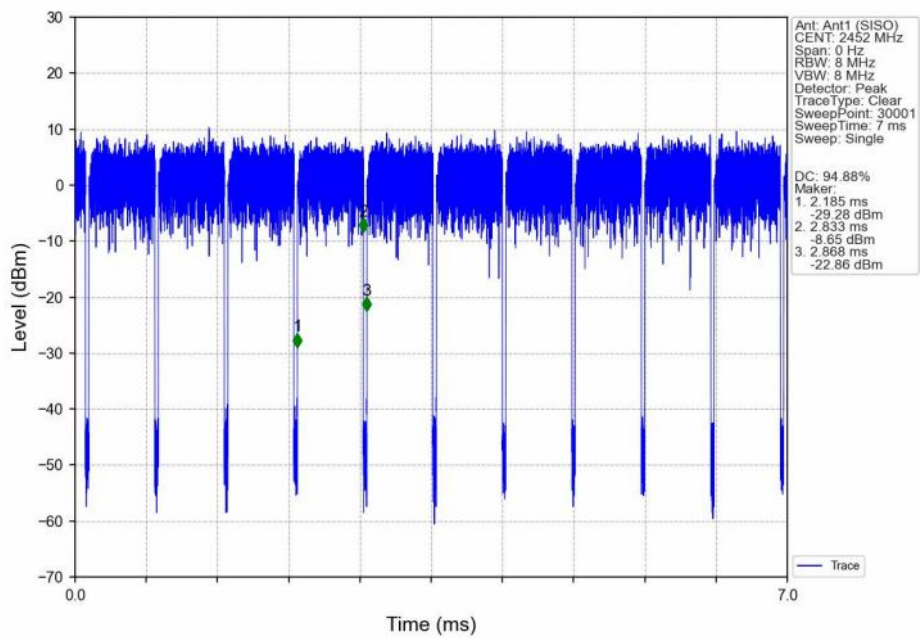
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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	10.901	/	Pass
		2437	1	13.398	/	Pass
		2462	1	13.712	/	Pass
802.11g	SISO	2412	1	16.669	/	Pass
		2437	1	16.715	/	Pass
		2462	1	17.265	/	Pass
802.11n (HT20)	SISO	2412	1	17.747	/	Pass
		2437	1	17.726	/	Pass
		2462	1	18.244	/	Pass
802.11n (HT40)	SISO	2422	1	36.573	/	Pass
		2437	1	36.583	/	Pass
		2452	1	36.586	/	Pass

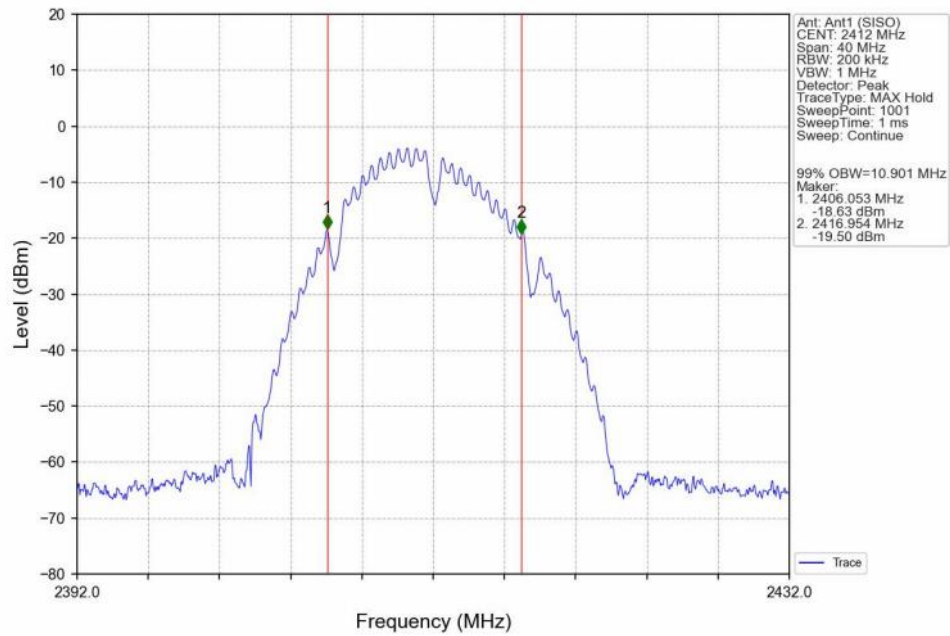
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	6.176	≥ 0.5	Pass
		2437	1	8.649	≥ 0.5	Pass
		2462	1	9.123	≥ 0.5	Pass
802.11g	SISO	2412	1	16.622	≥ 0.5	Pass
		2437	1	16.479	≥ 0.5	Pass
		2462	1	16.619	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.718	≥ 0.5	Pass
		2437	1	17.713	≥ 0.5	Pass
		2462	1	17.961	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.316	≥ 0.5	Pass
		2437	1	36.516	≥ 0.5	Pass
		2452	1	36.446	≥ 0.5	Pass

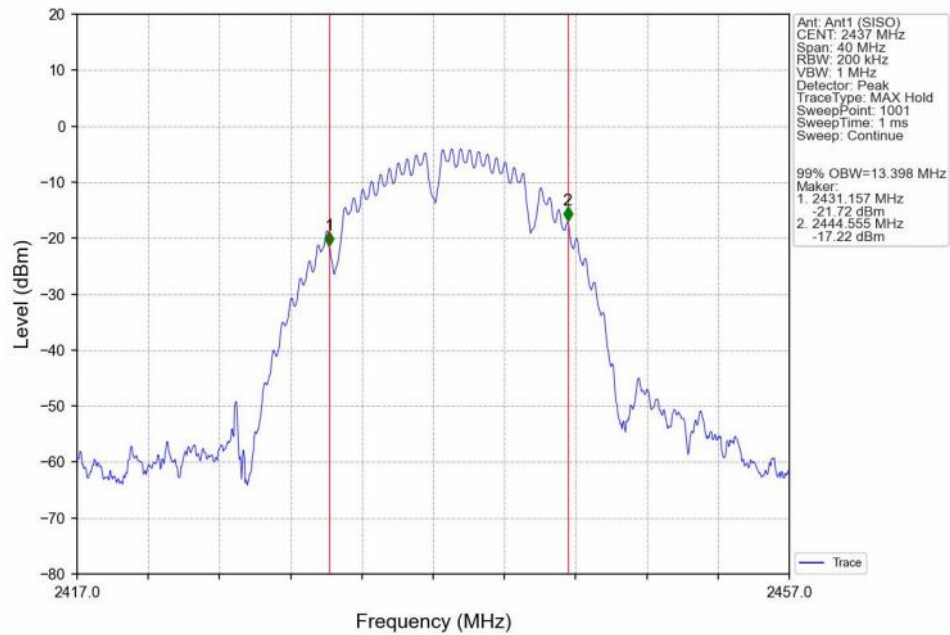
2.2 Test Graph

2.2.1 OBW

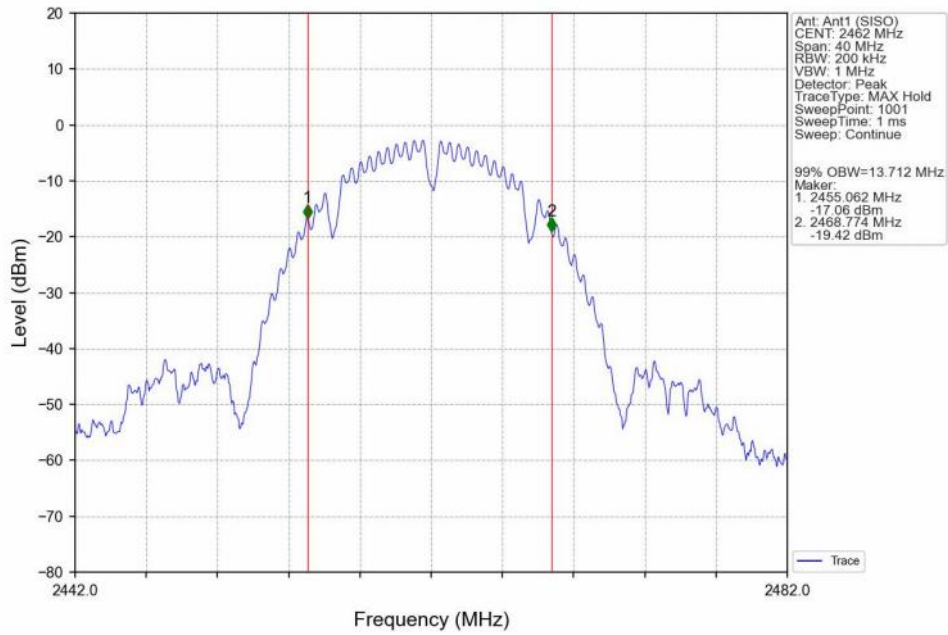
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



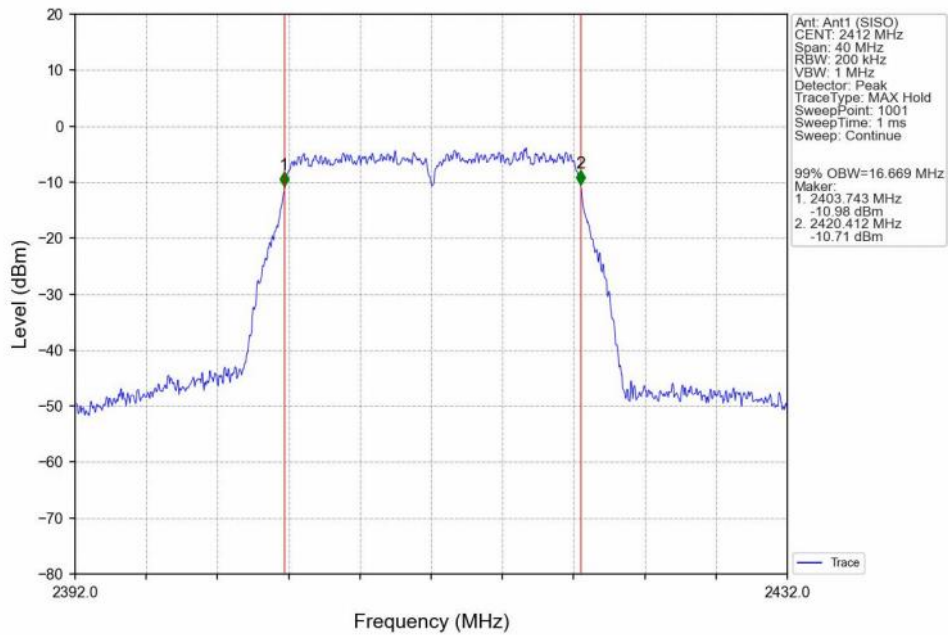
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



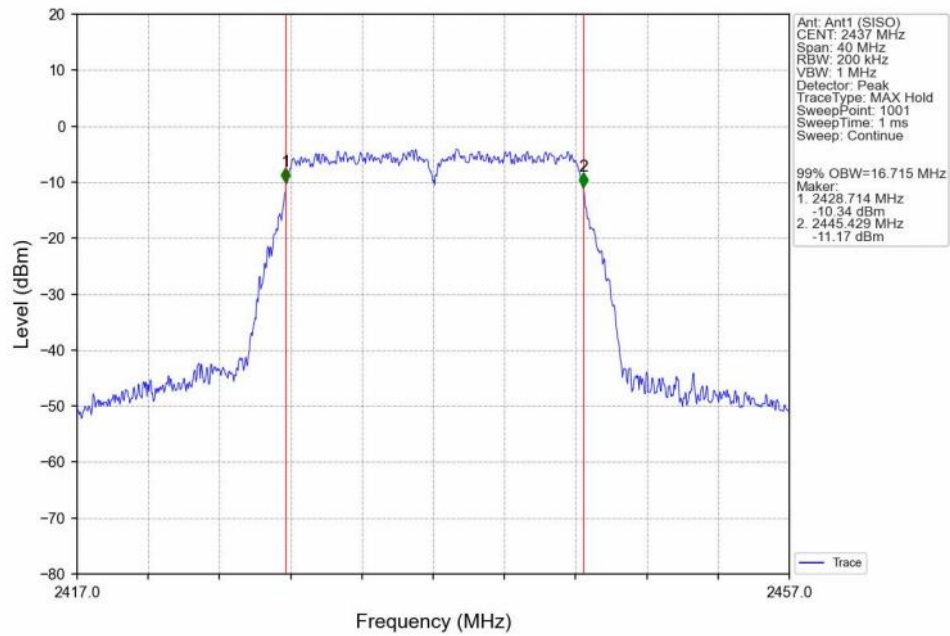
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



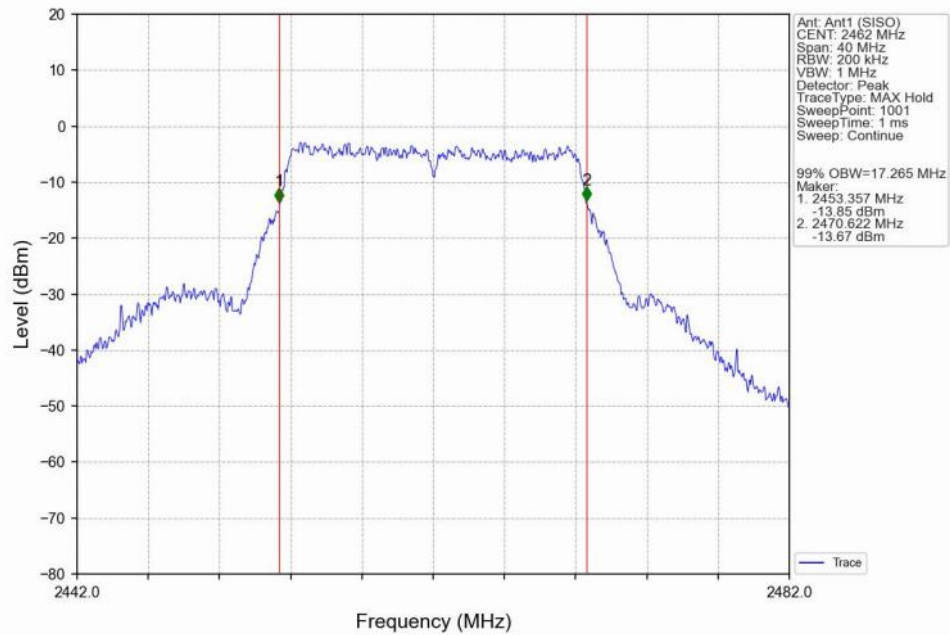
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



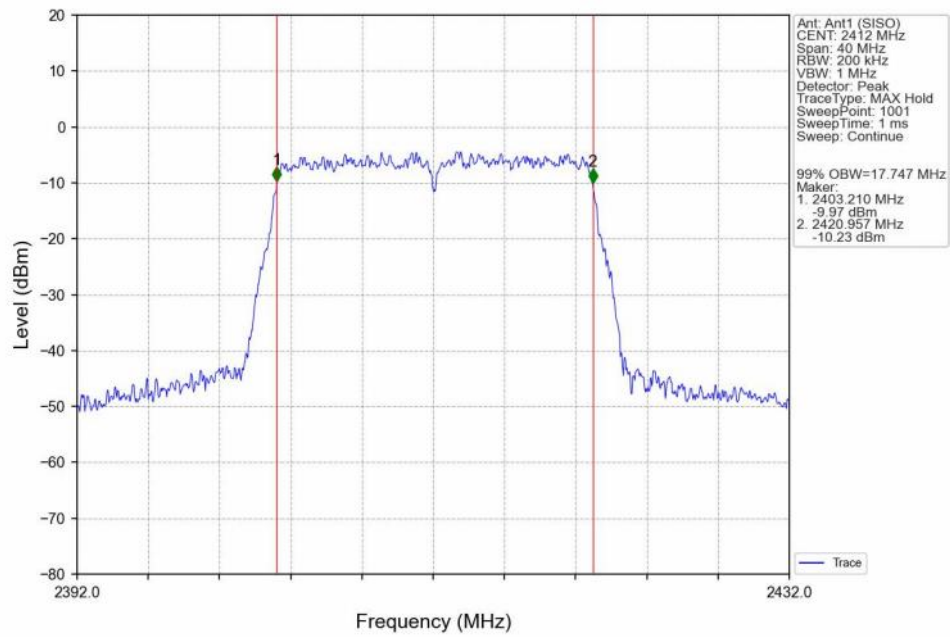
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



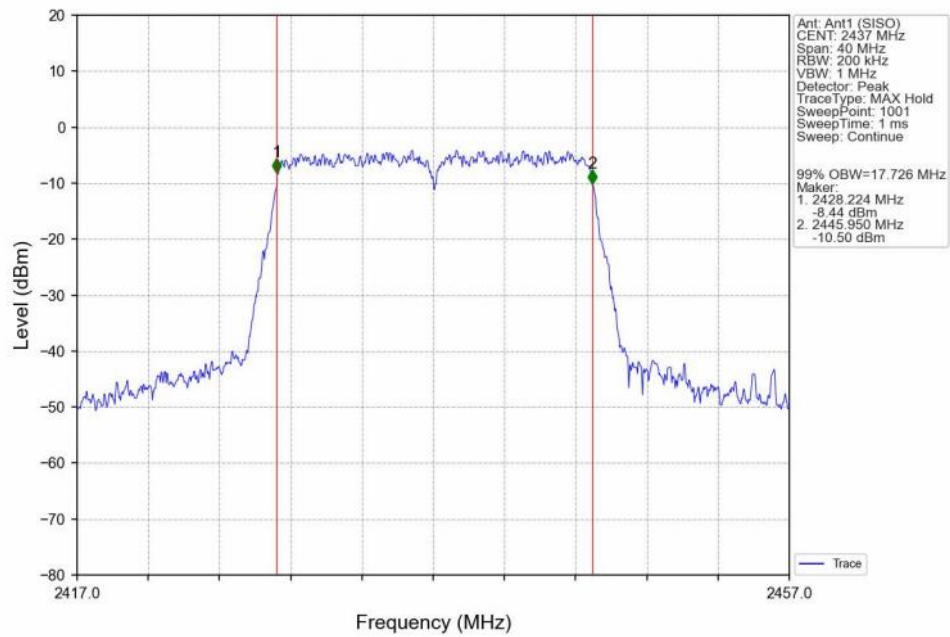
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



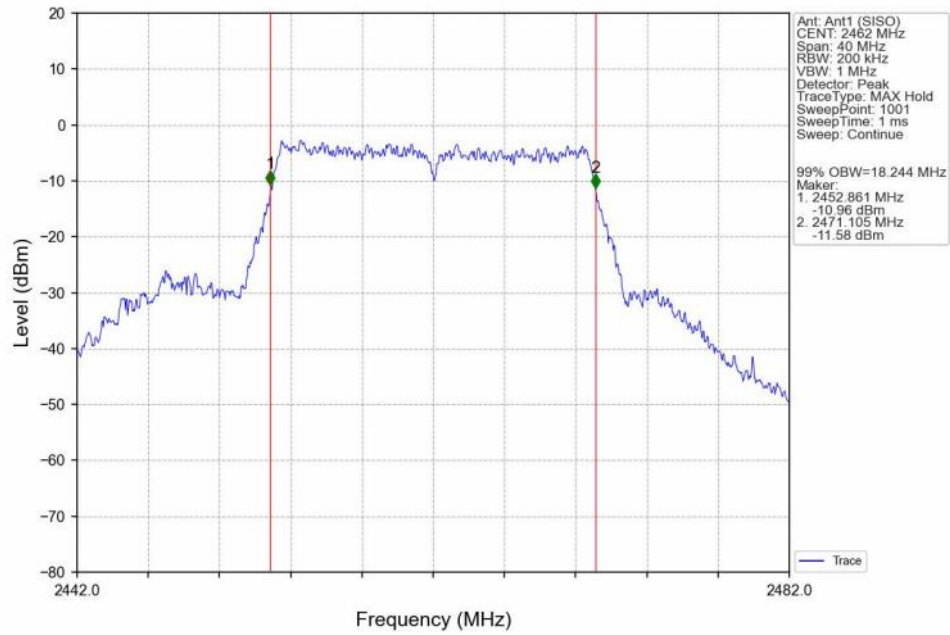
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



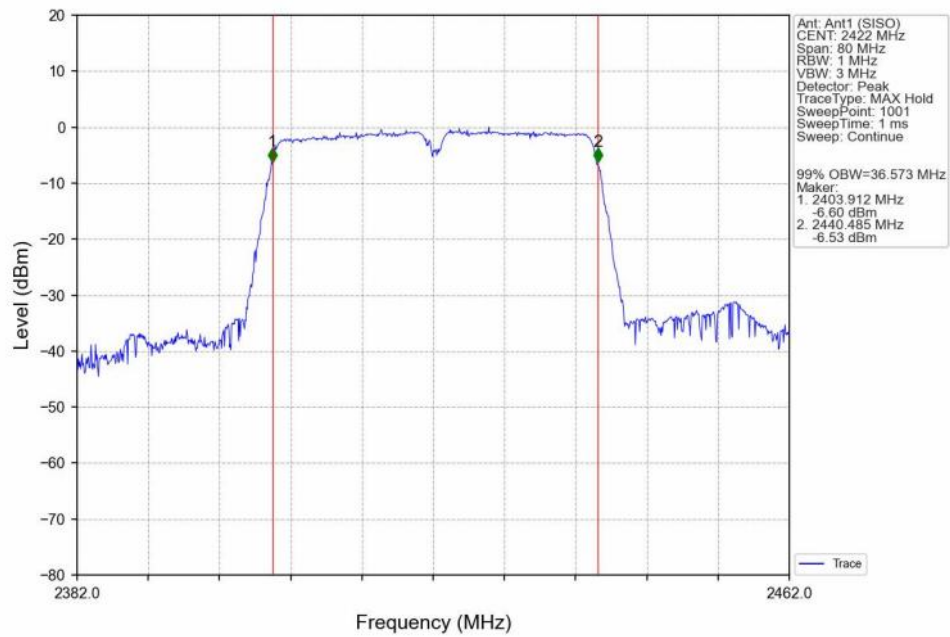
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



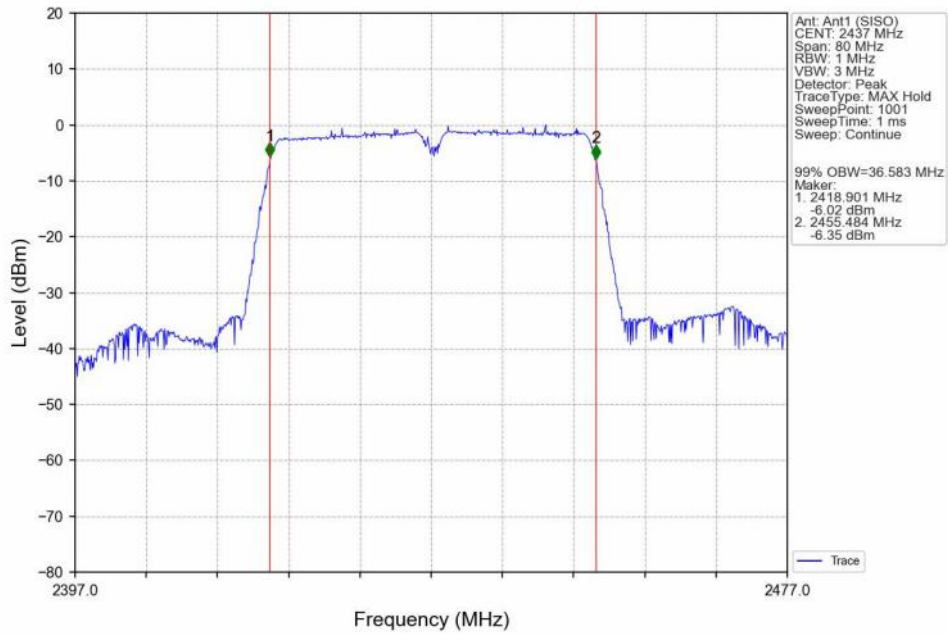
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



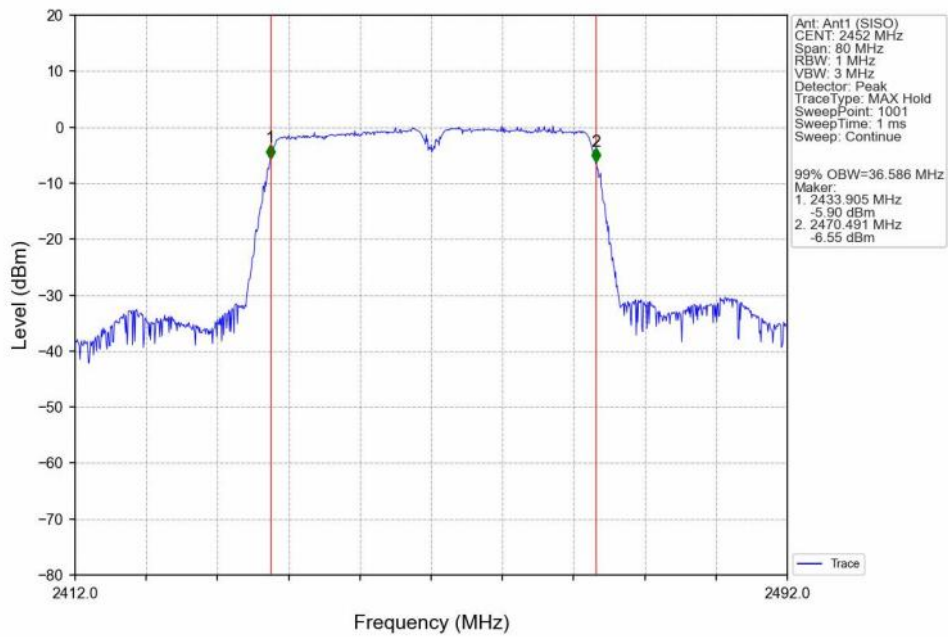
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

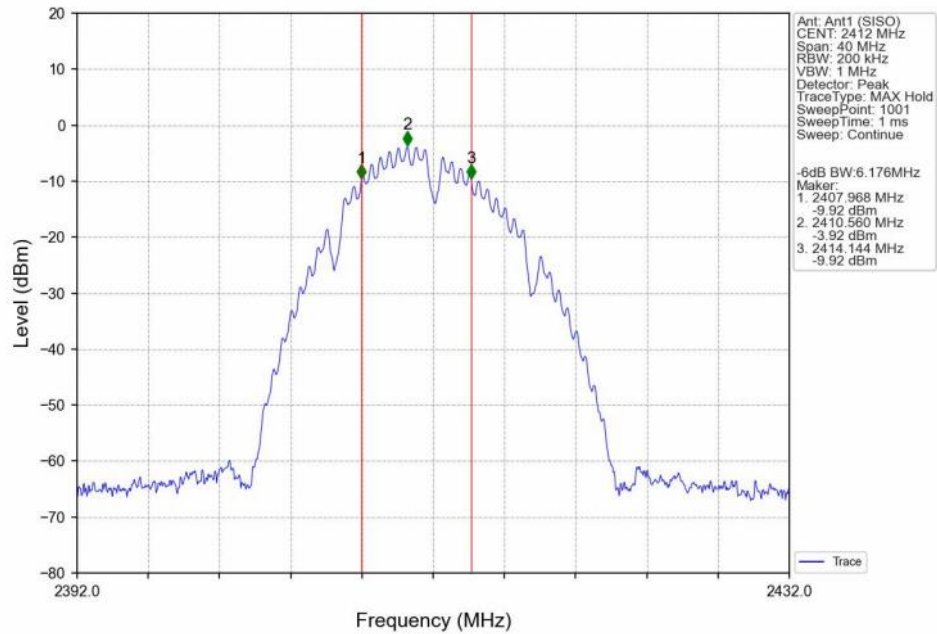


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

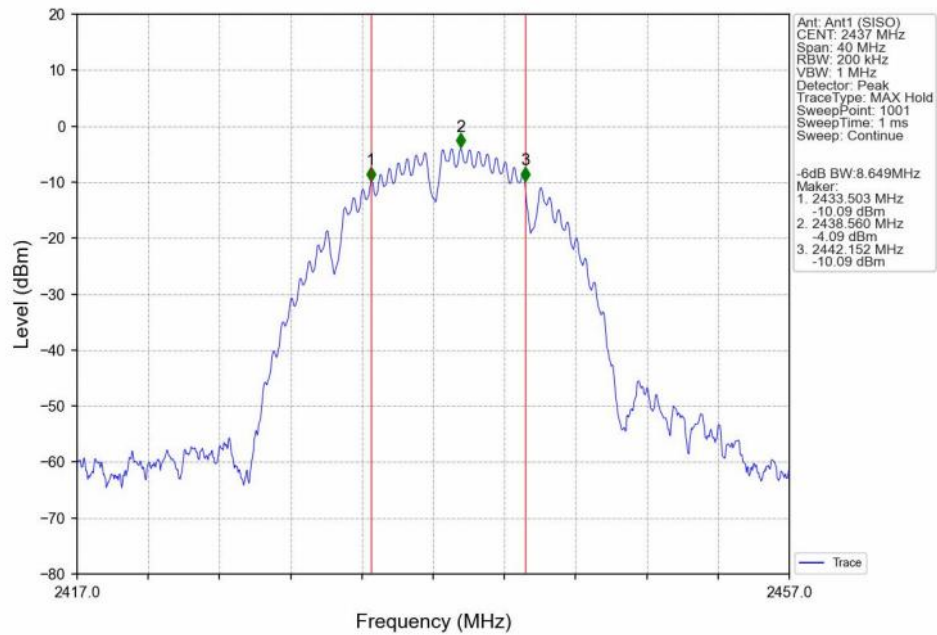


2.2.2 6dB BW

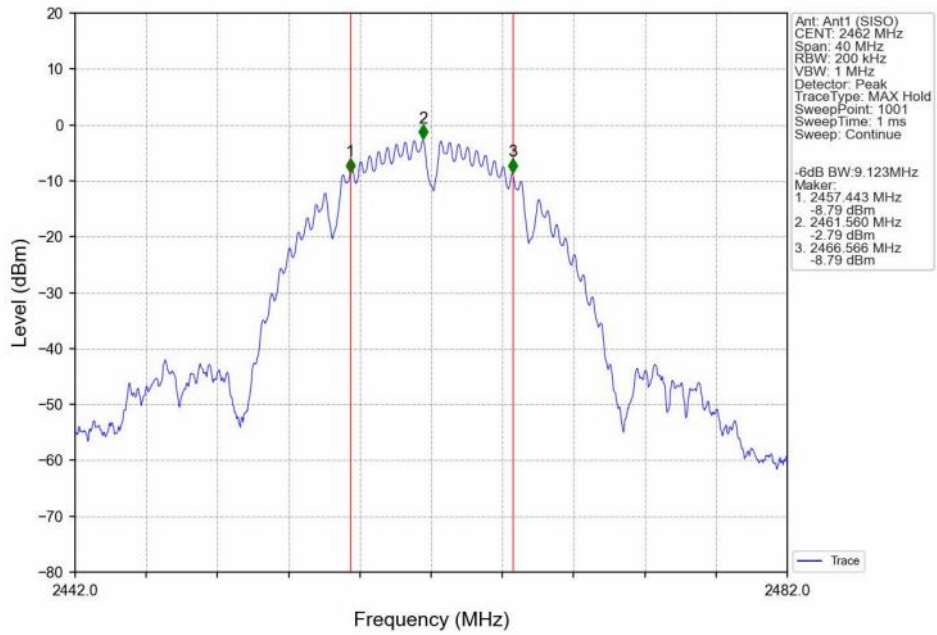
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



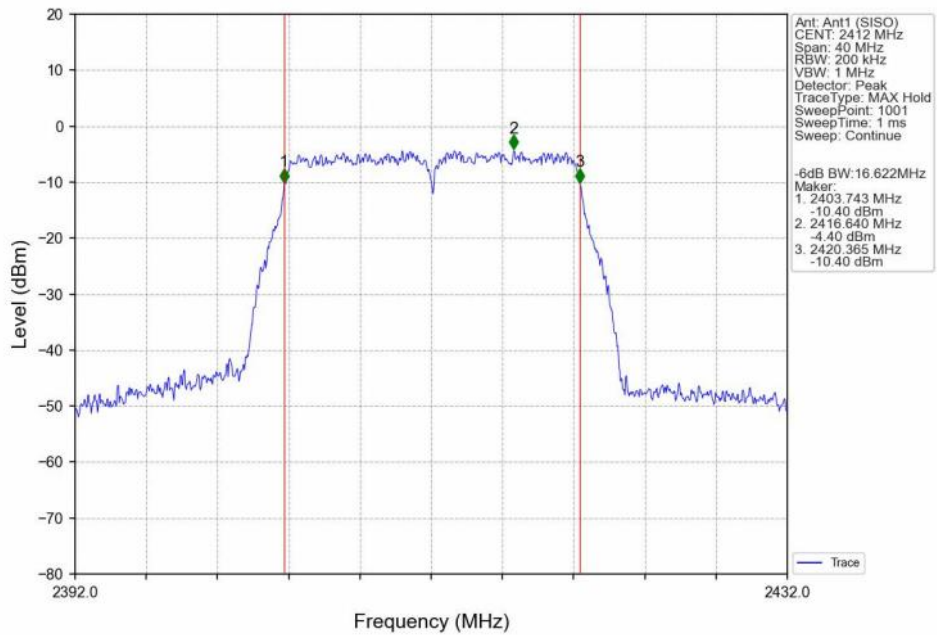
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



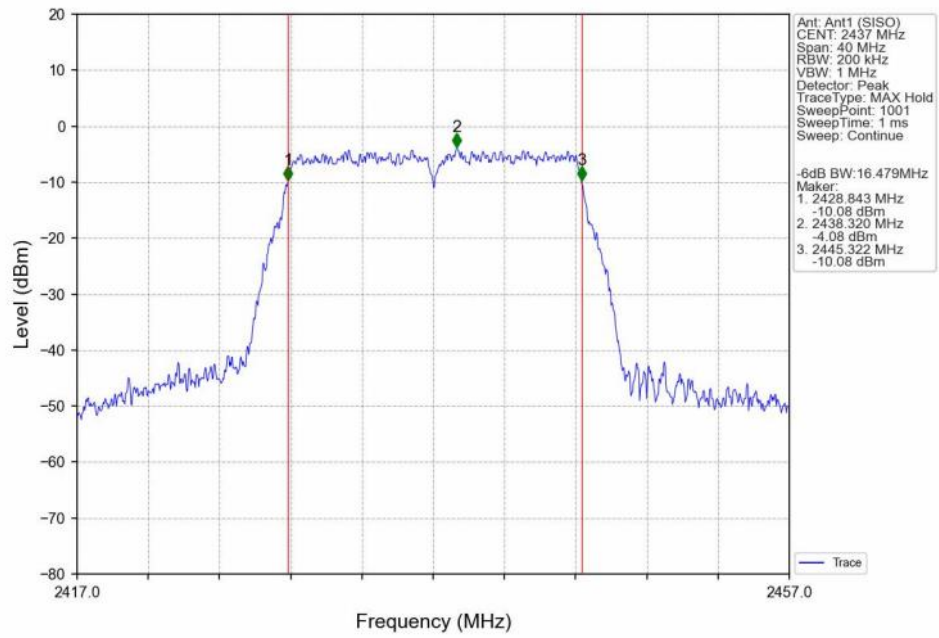
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



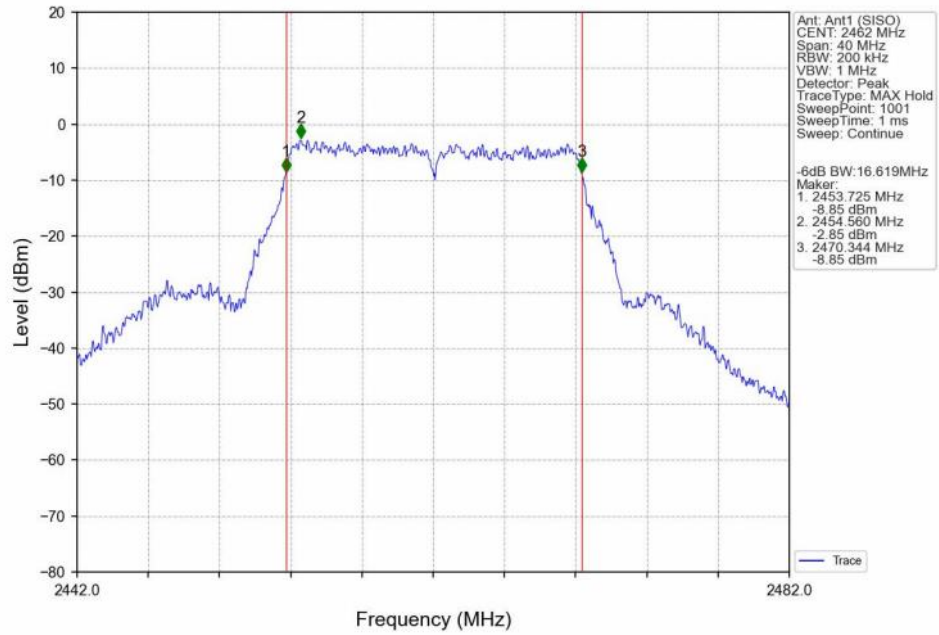
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



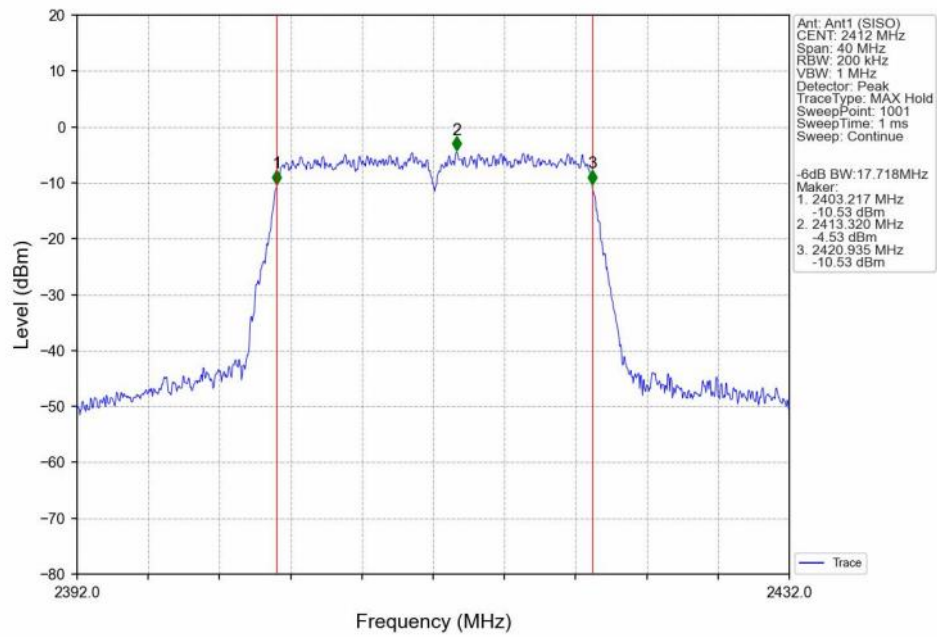
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



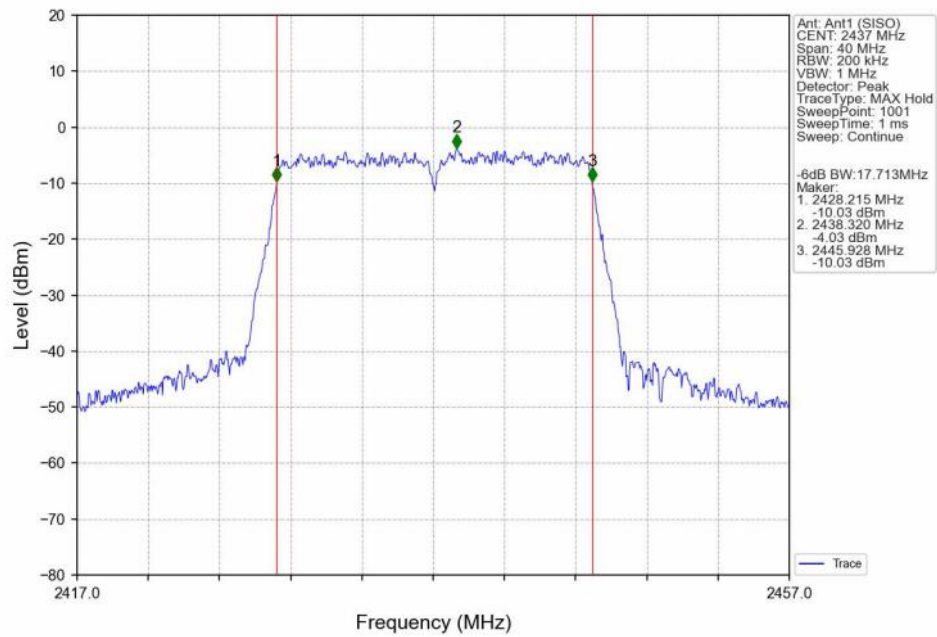
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



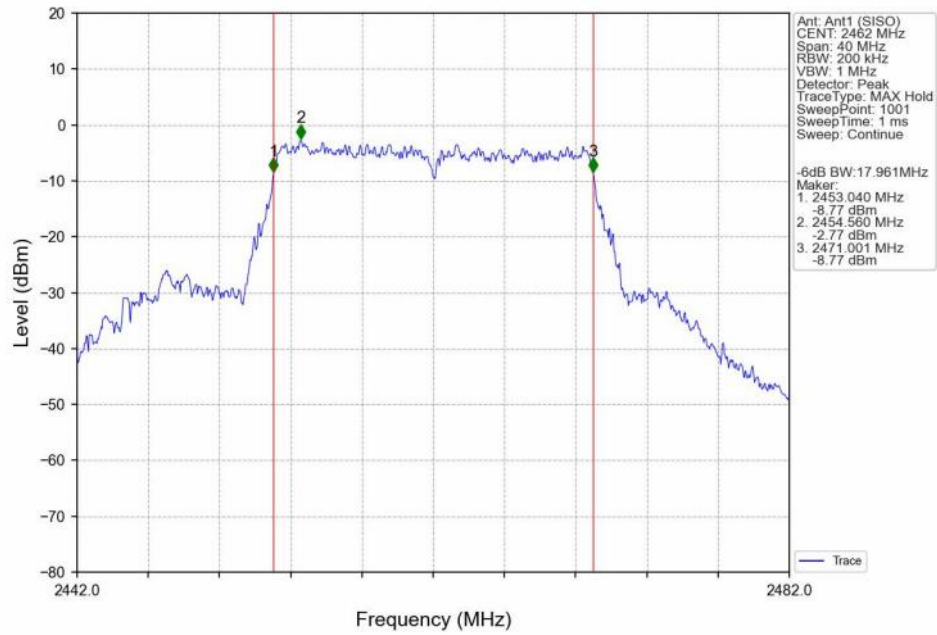
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



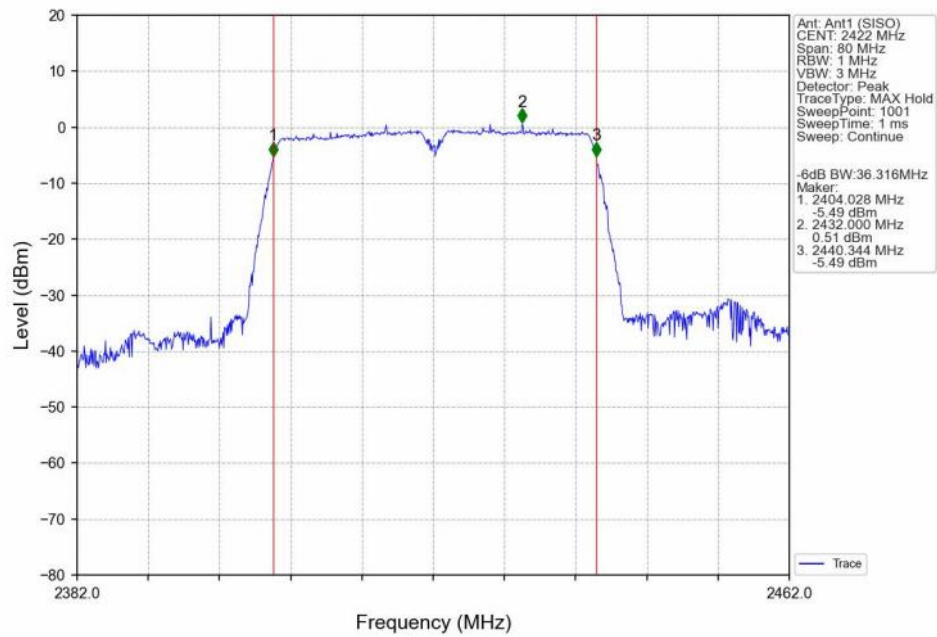
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



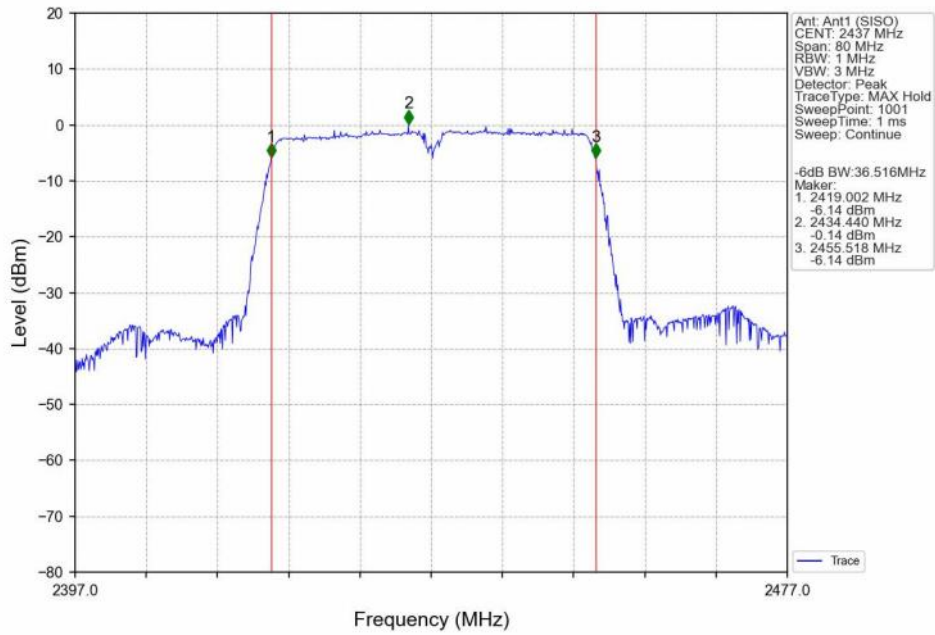
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



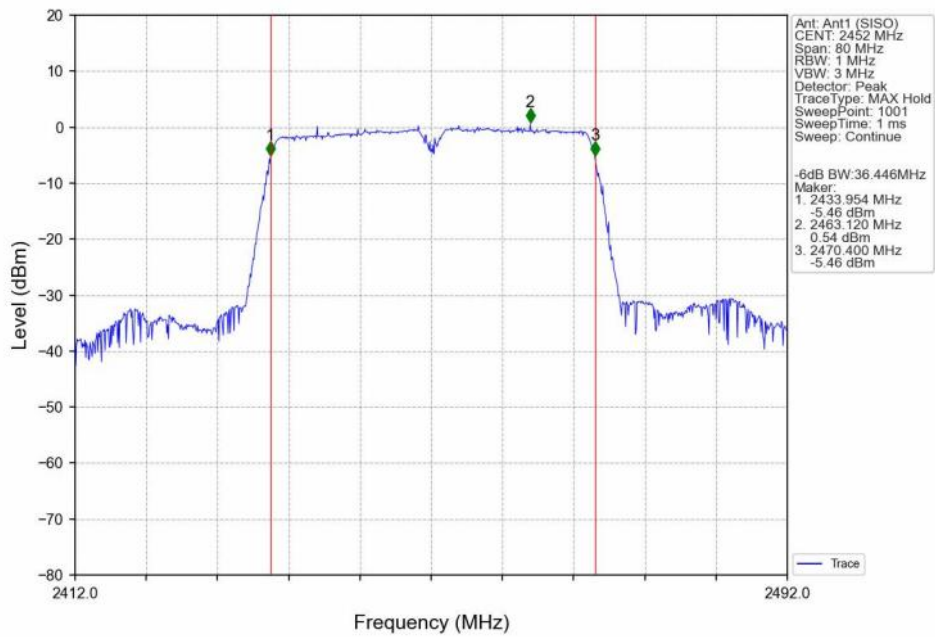
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

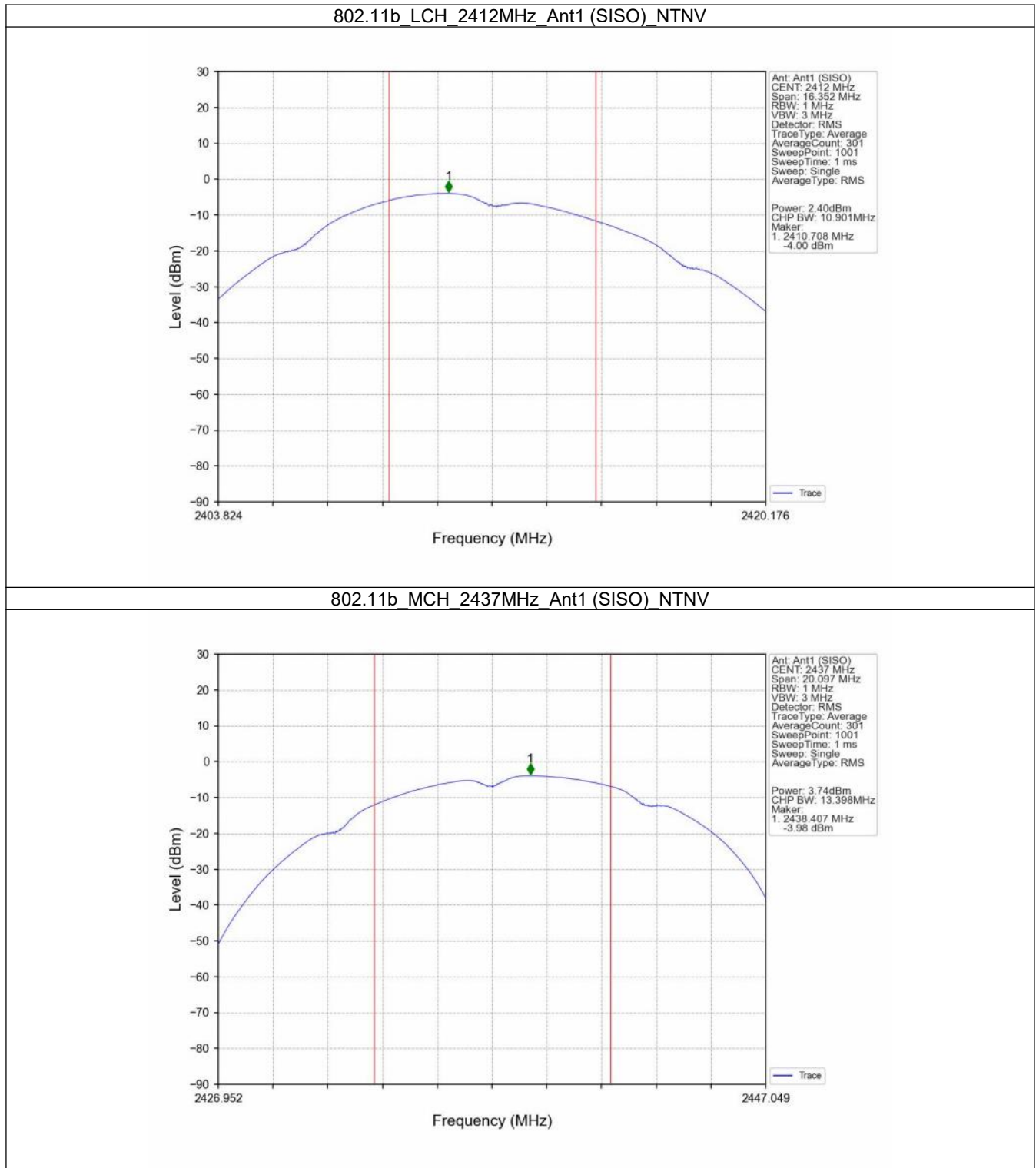
3.1 Test Result

3.1.1 Power

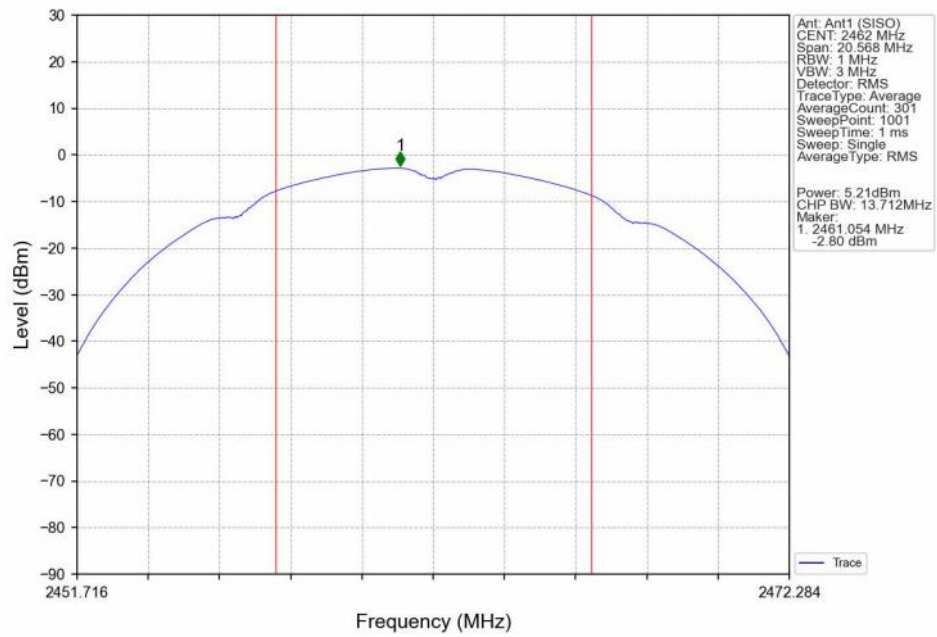
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	2.40	<=30	Pass
		2437	3.74	<=30	Pass
		2462	5.21	<=30	Pass
802.11g	SISO	2412	5.74	<=30	Pass
		2437	5.92	<=30	Pass
		2462	6.91	<=30	Pass
802.11n (HT20)	SISO	2412	5.58	<=30	Pass
		2437	6.04	<=30	Pass
		2462	7.02	<=30	Pass
802.11n (HT40)	SISO	2422	6.02	<=30	Pass
		2437	5.49	<=30	Pass
		2452	6.28	<=30	Pass
Note1: Antenna Gain: Ant1: 2.08dBi;					

3.2 Test Graph

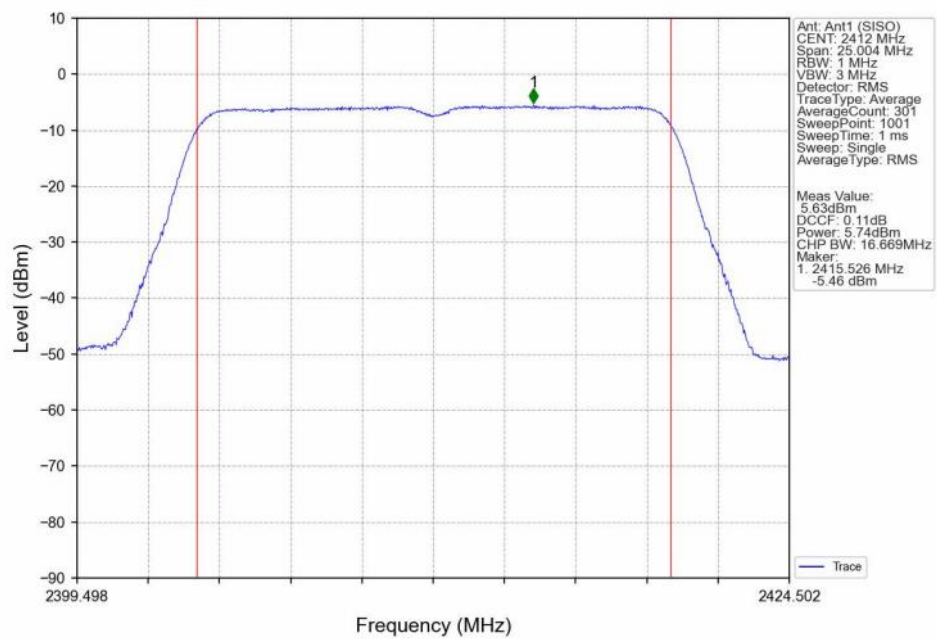
3.2.1 Power



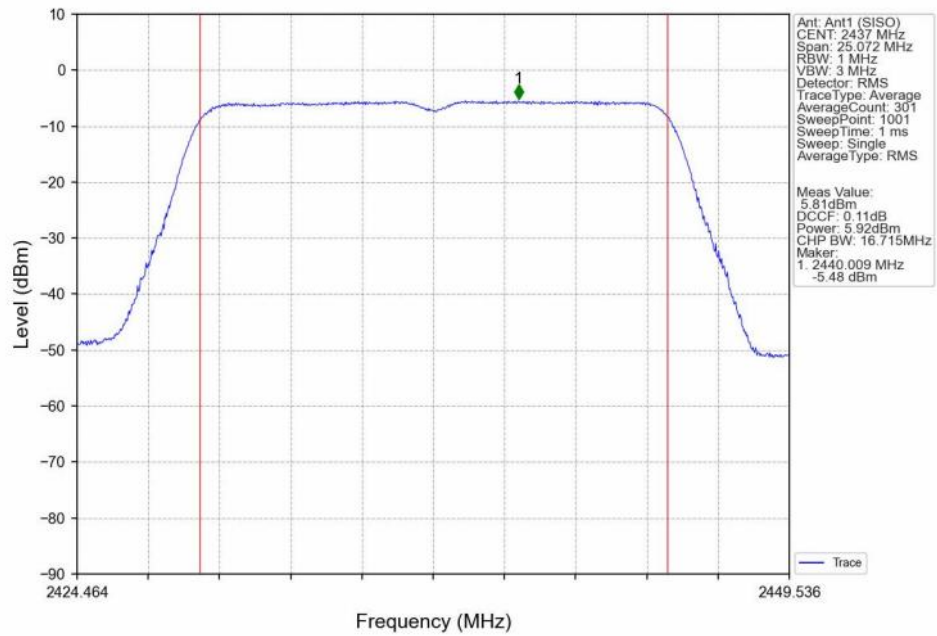
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



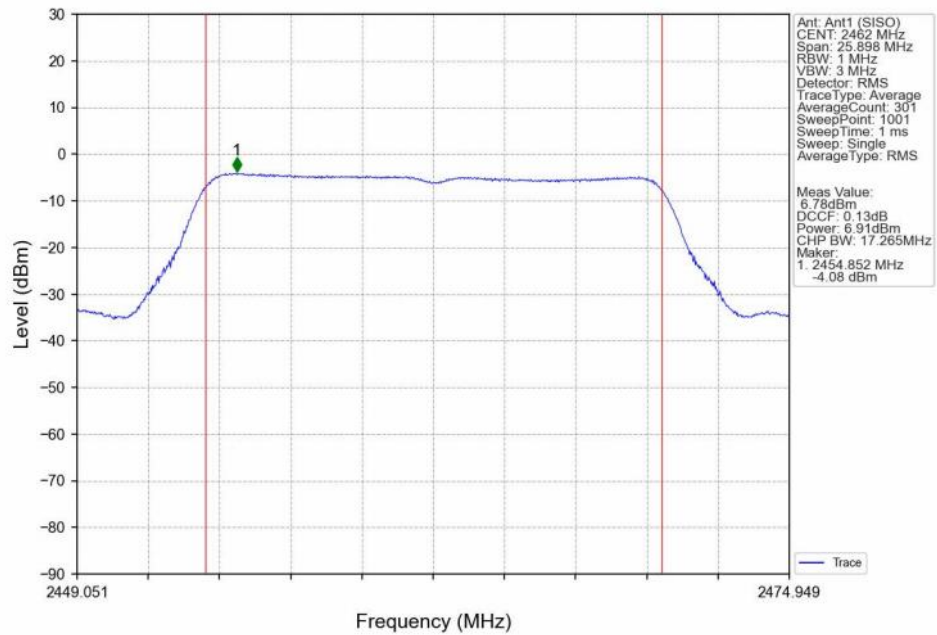
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



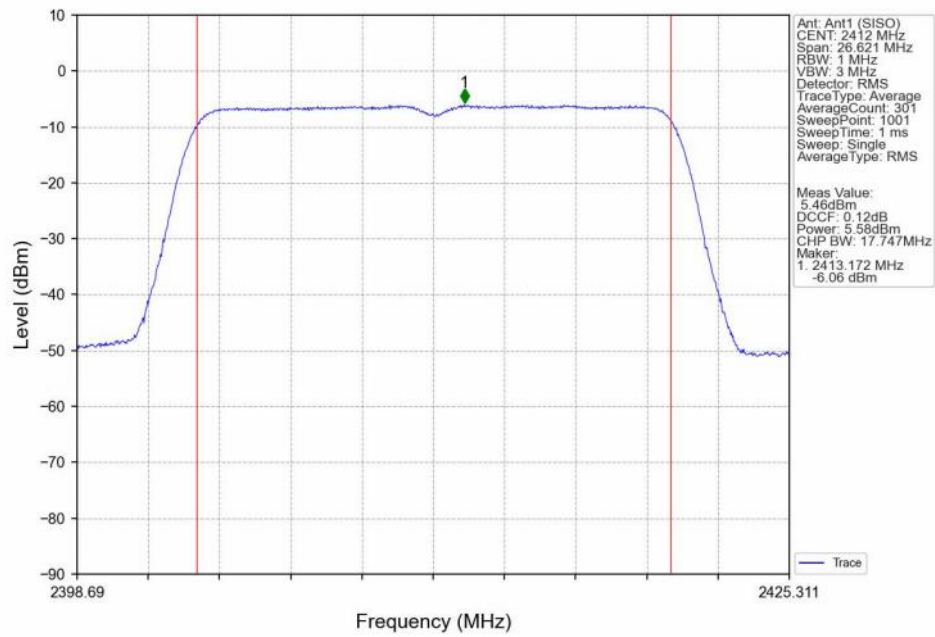
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



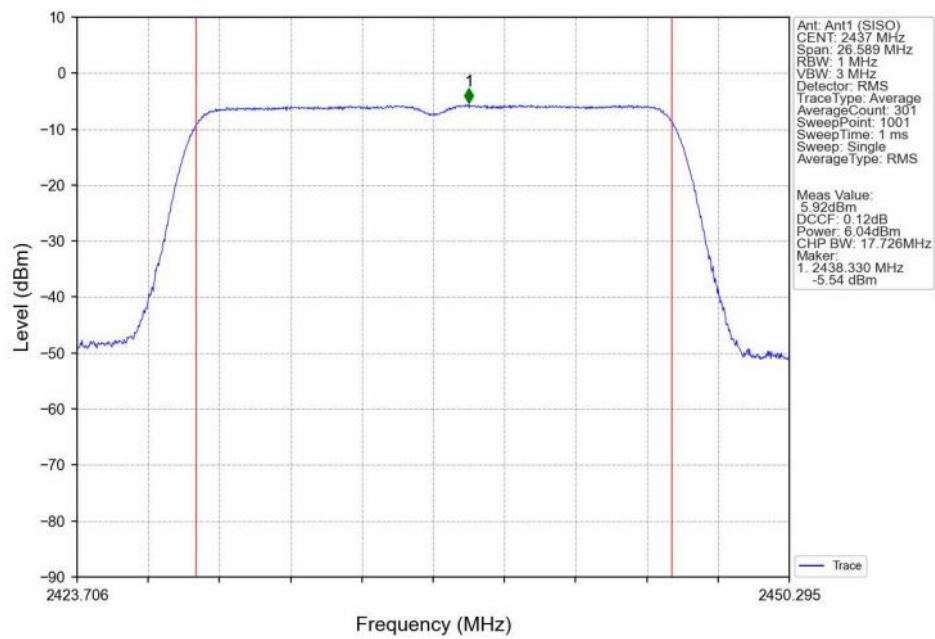
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



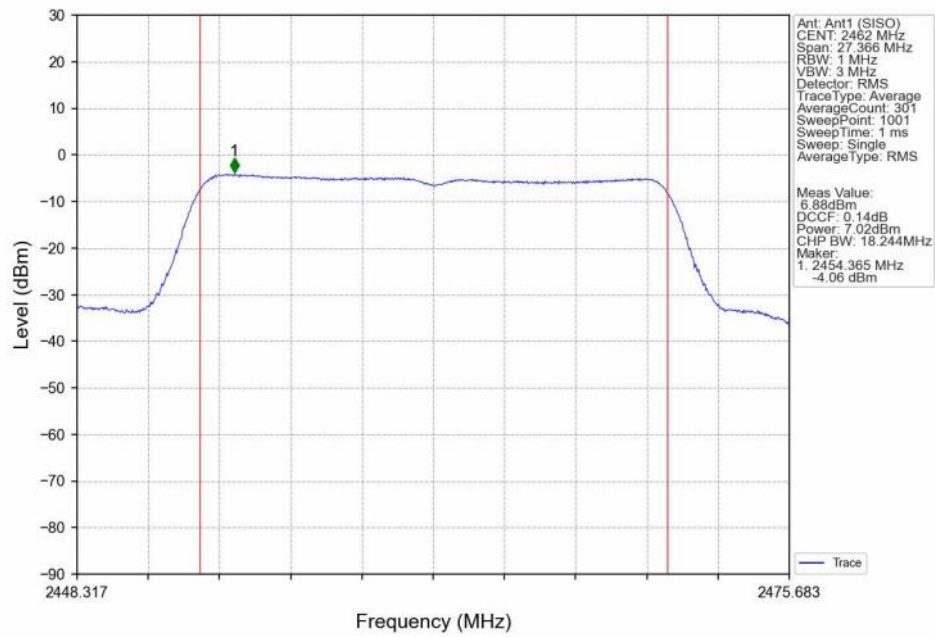
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



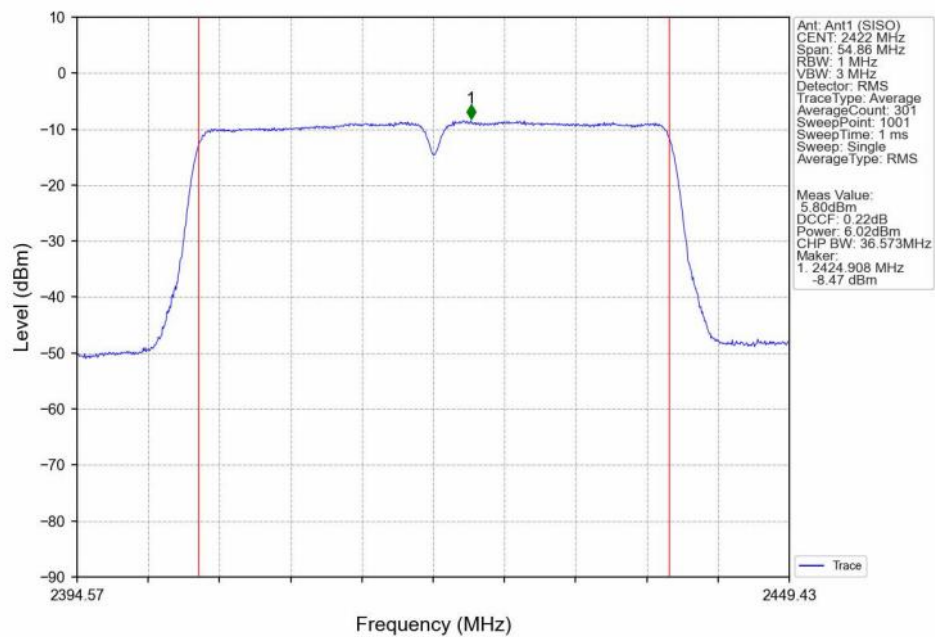
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



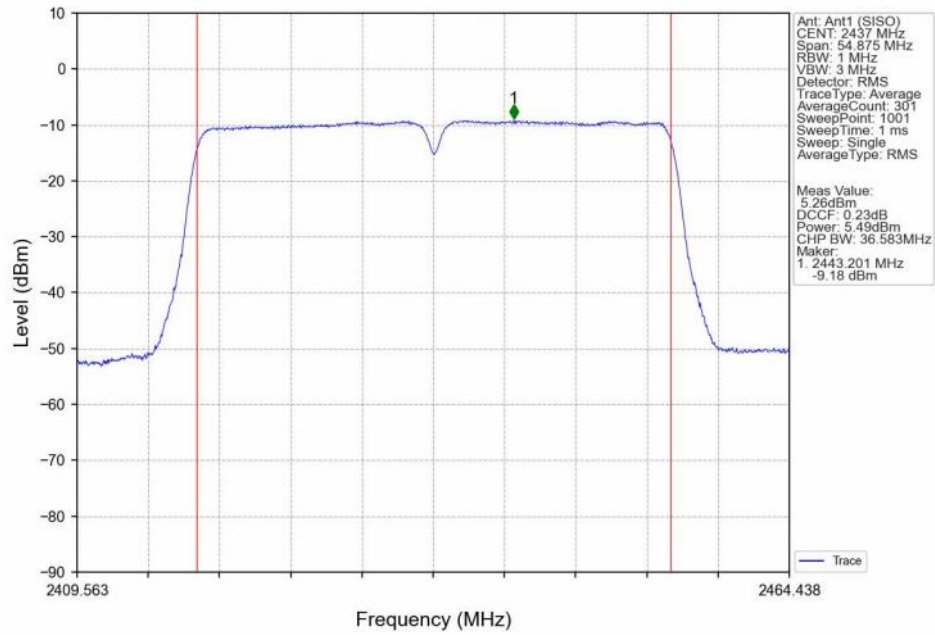
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



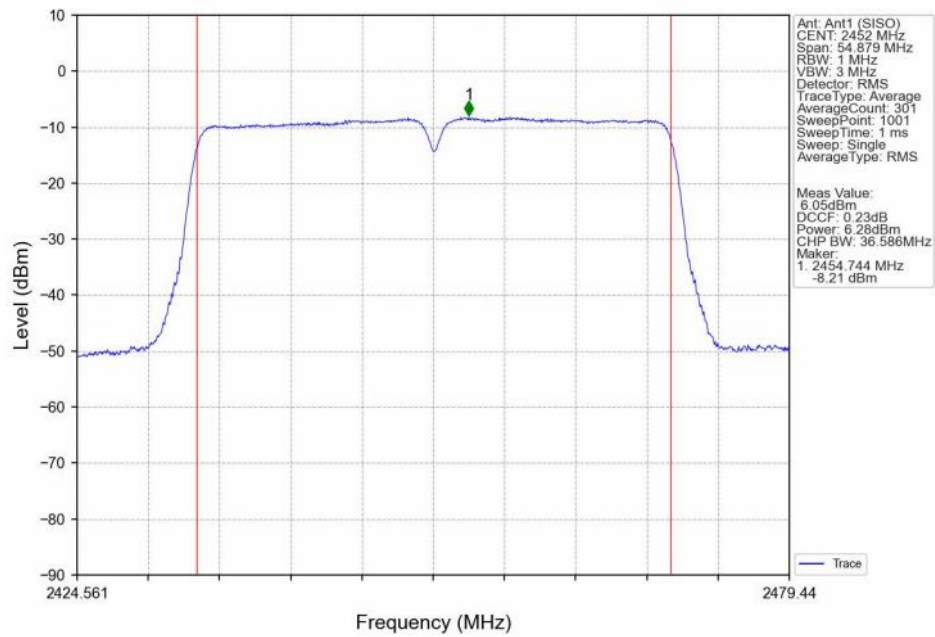
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



4. Maximum Power Spectral Density

4.1 Test Result

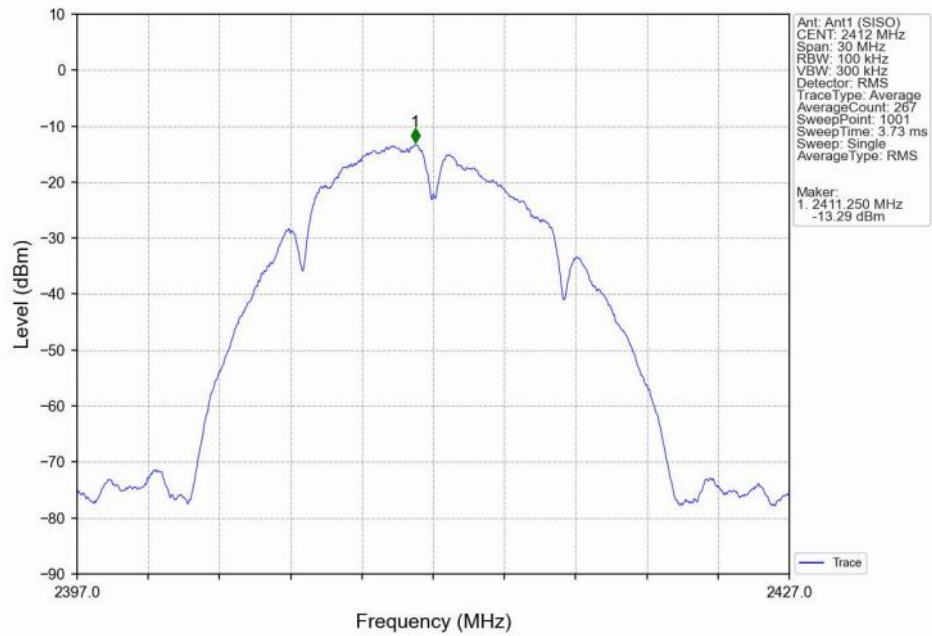
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD			Verdict
			ANT1(dBm/100KHz)	ANT1(dBm/3KHz)	Limit(dBm/3KHz)	
802.11b	SISO	2412	-13.29	-28.52	<=8	Pass
		2437	-13.08	-28.31	<=8	Pass
		2462	-11.68	-26.91	<=8	Pass
802.11g	SISO	2412	-14.63	-29.86	<=8	Pass
		2437	-14.27	-29.50	<=8	Pass
		2462	-12.93	-28.16	<=8	Pass
802.11n (HT20)	SISO	2412	-14.97	-30.20	<=8	Pass
		2437	-14.24	-29.47	<=8	Pass
		2462	-12.81	-28.04	<=8	Pass
802.11n (HT40)	SISO	2422	-16.83	-32.06	<=8	Pass
		2437	-17.75	-32.98	<=8	Pass
		2452	-16.91	-32.14	<=8	Pass
Note1: Antenna Gain: Ant1: 2.08dBi; Note2: ANT1(dBm/3KHz) = ANT1(dBm/100KHz) + 10log(3/100)						

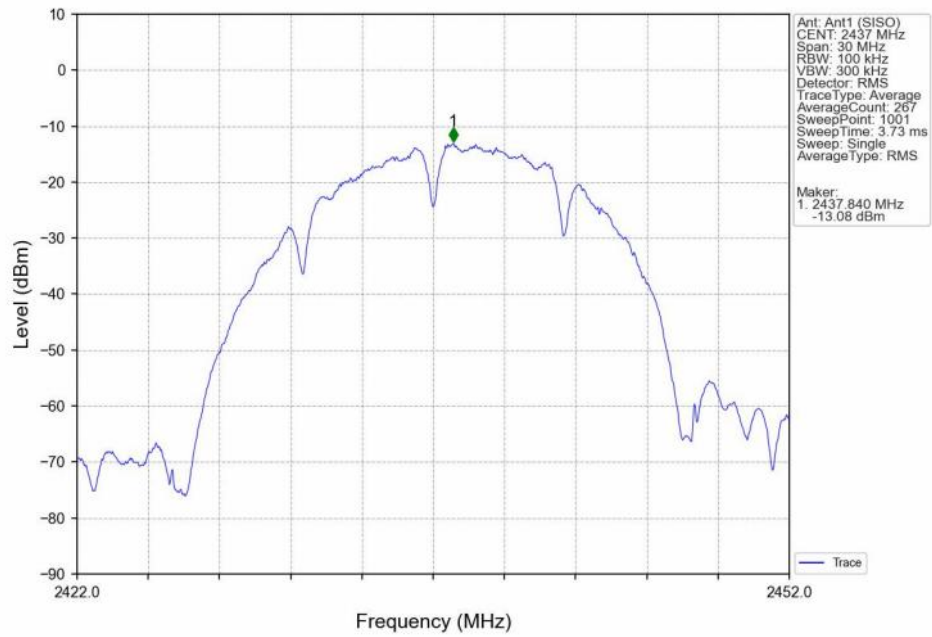
4.2 Test Graph

4.2.1 PSD

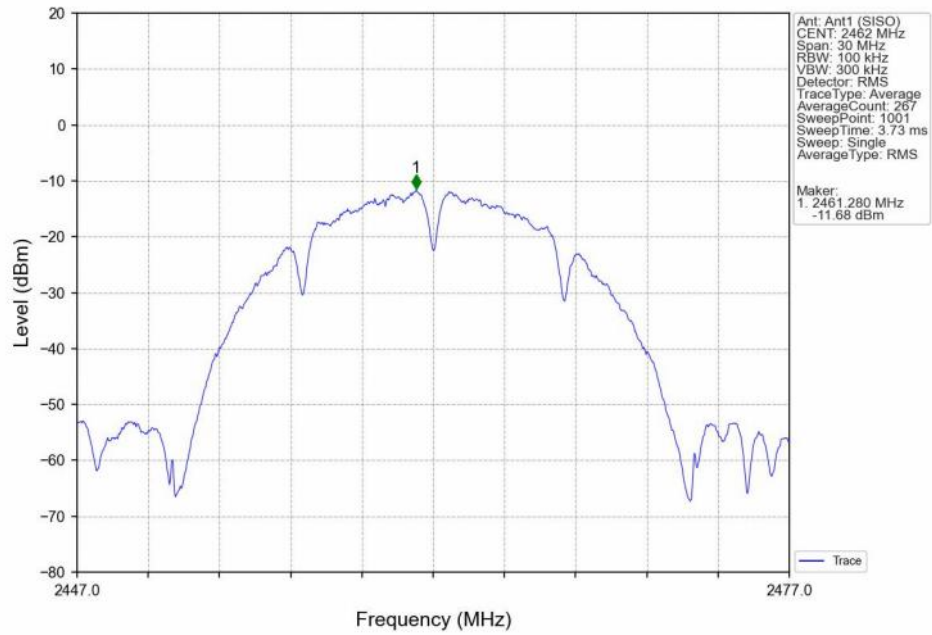
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



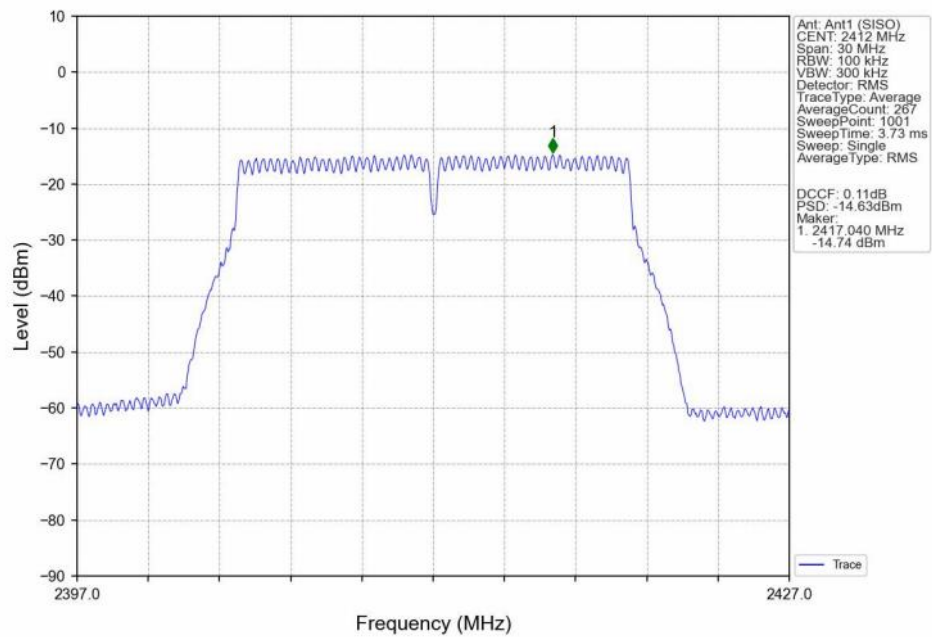
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



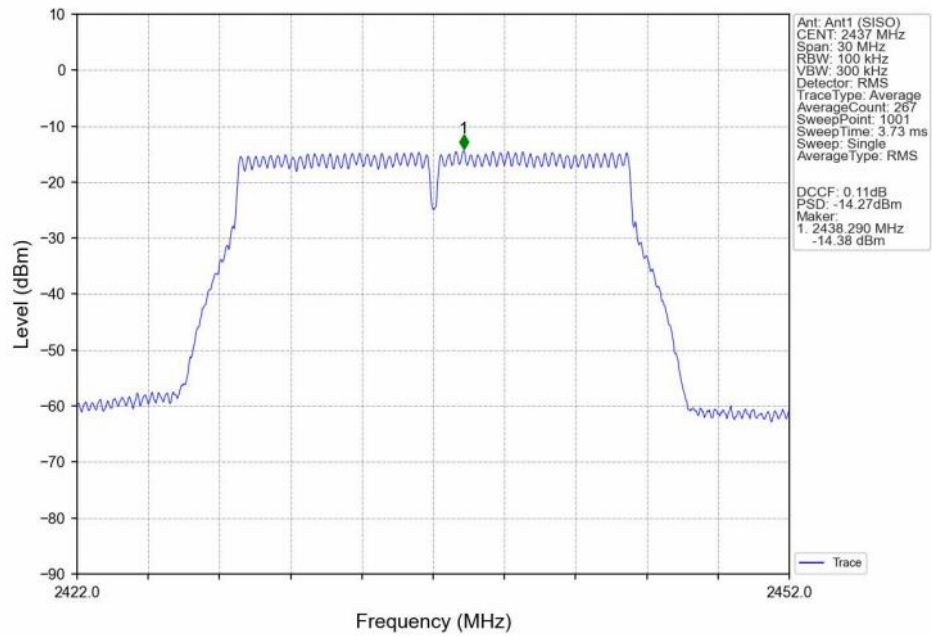
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



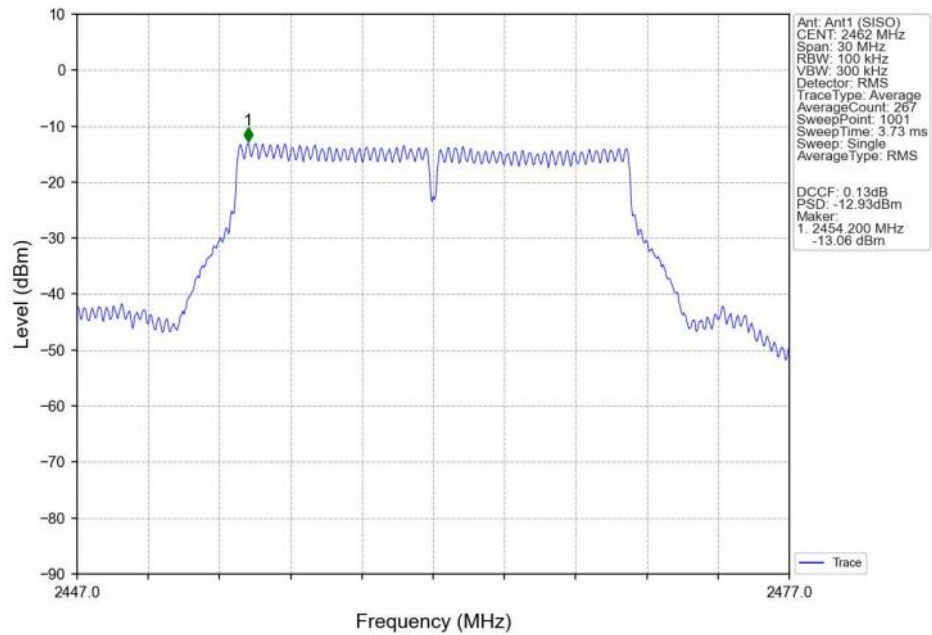
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



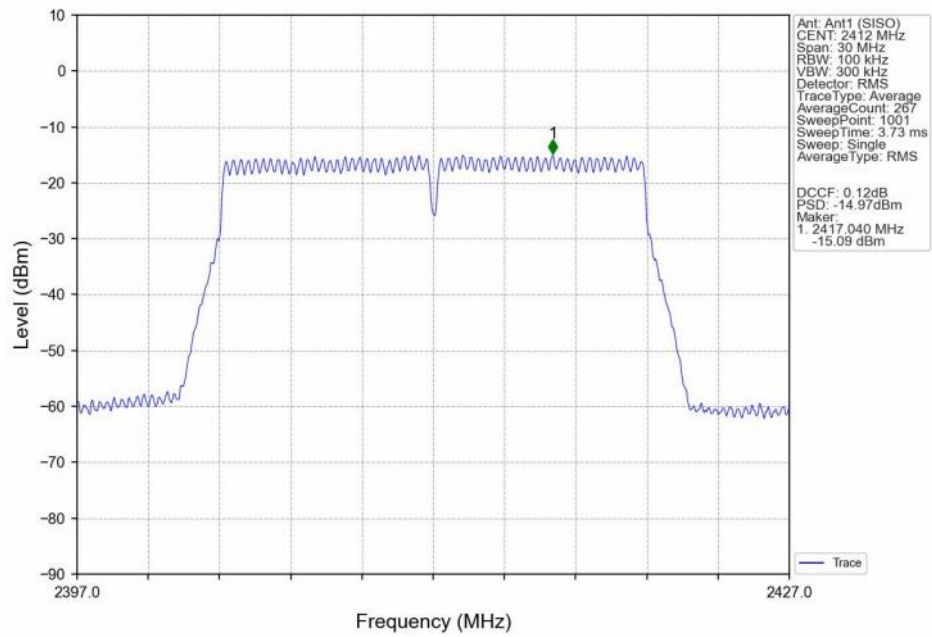
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



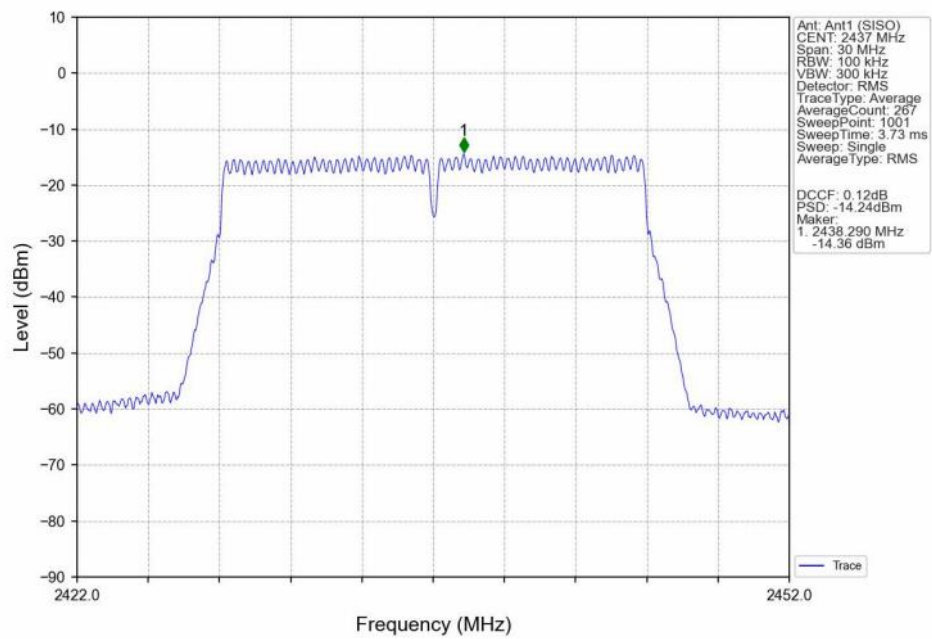
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



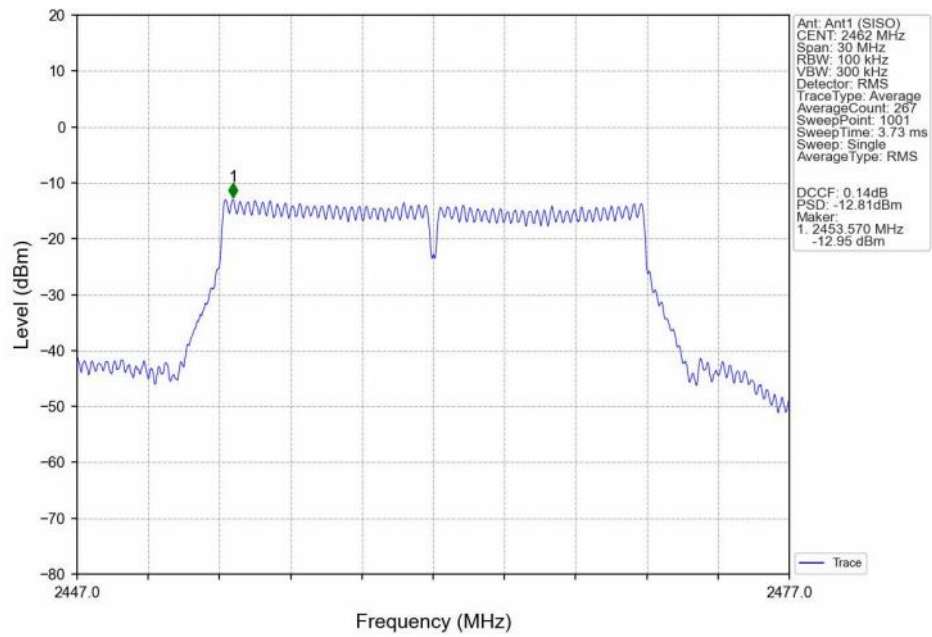
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



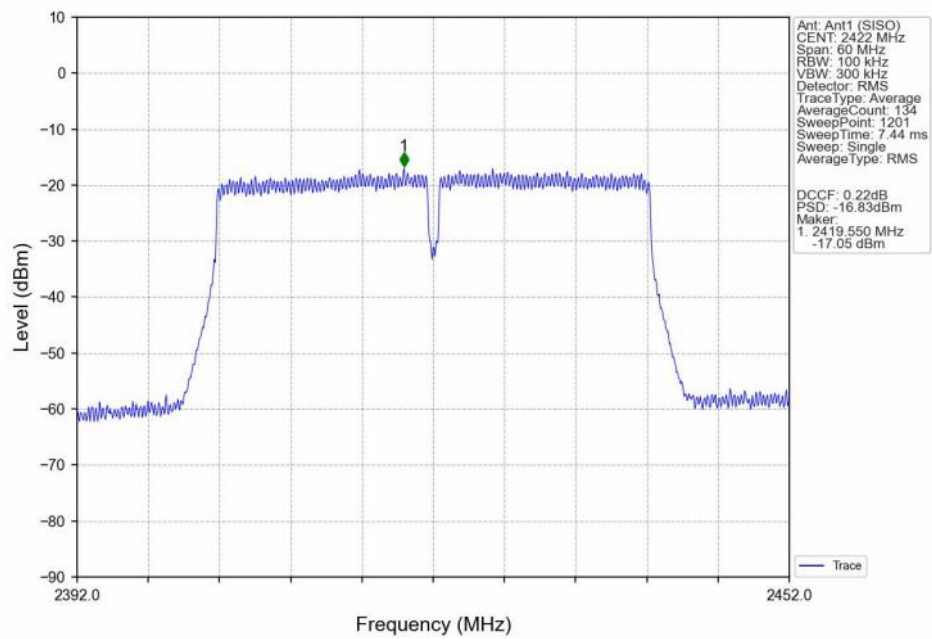
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



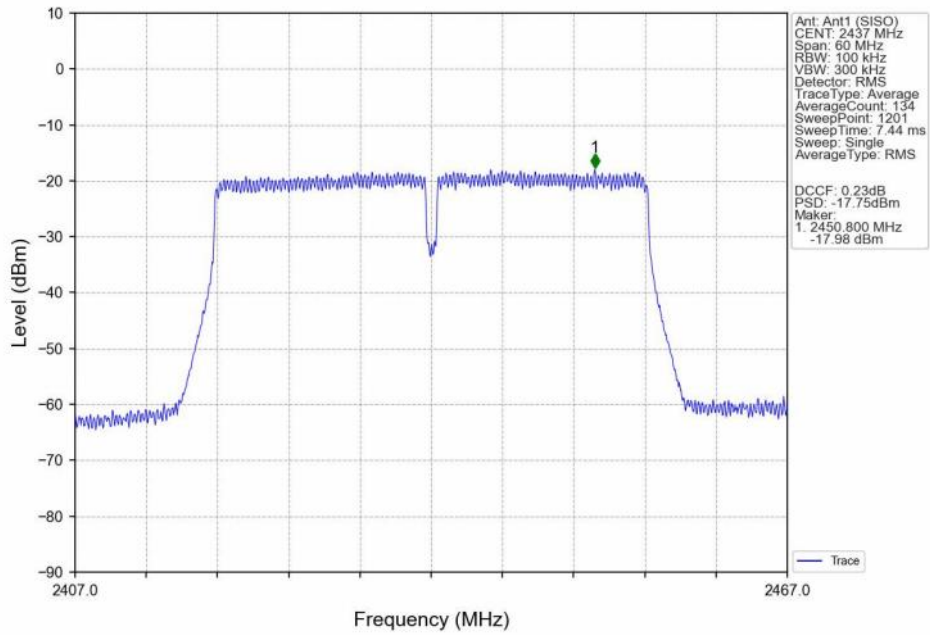
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



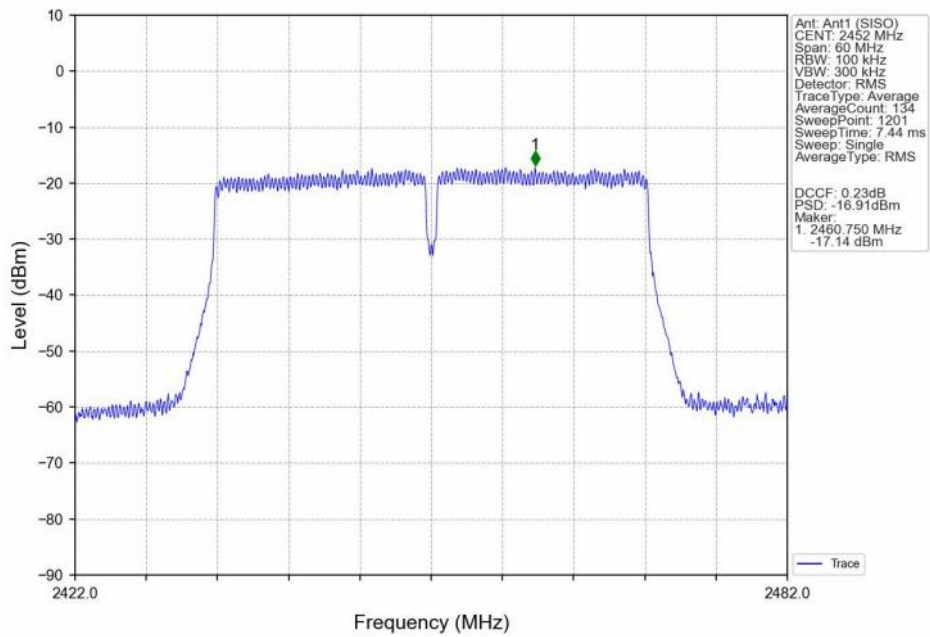
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. 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	-4.22
		2437	1	-4.17
		2462	1	-2.97
802.11g	SISO	2412	1	-5.22
		2437	1	-5.27
		2462	1	-3.90
802.11n (HT20)	SISO	2412	1	-5.39
		2437	1	-4.95
		2462	1	-3.99
802.11n (HT40)	SISO	2422	1	-7.96
		2437	1	-8.56
		2452	1	-7.60

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-4.22	-34.22	Pass
		2437	1	-4.17	-34.17	Pass
		2462	1	-2.97	-32.97	Pass
802.11g	SISO	2412	1	-5.22	-35.22	Pass
		2437	1	-5.27	-35.27	Pass
		2462	1	-3.90	-33.90	Pass
802.11n (HT20)	SISO	2412	1	-5.39	-35.39	Pass
		2437	1	-4.95	-34.95	Pass
		2462	1	-3.99	-33.99	Pass
802.11n (HT40)	SISO	2422	1	-7.96	-37.96	Pass
		2437	1	-8.56	-38.56	Pass
		2452	1	-7.60	-37.60	Pass

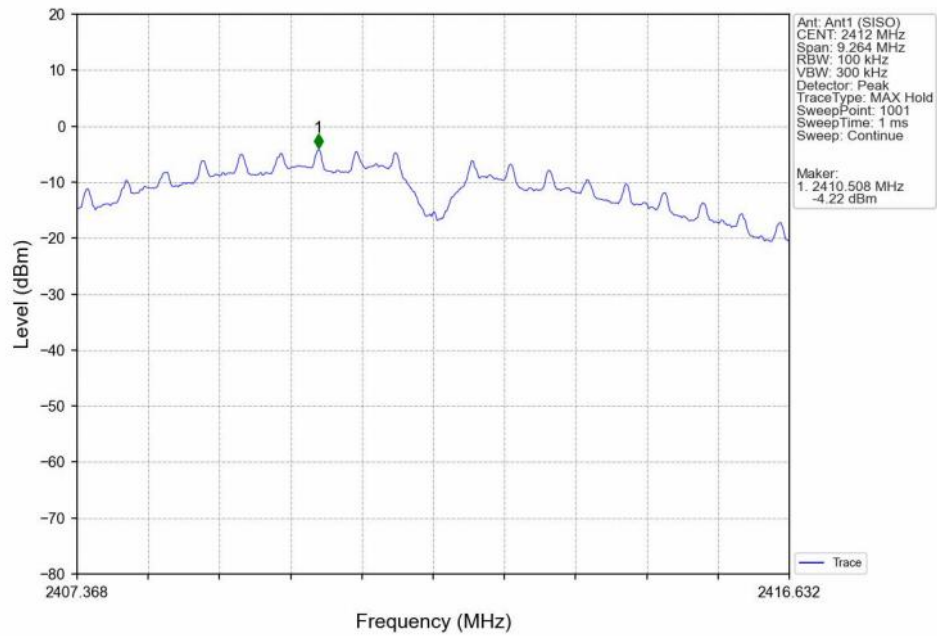
5.1.3. Band Edge Measurement

Mode	Frequency (MHz)	Max Value (dBm)	Limit (dBm)	Verdict
802.11b	2412	-63.81	-34.22	Pass
	2462	-58.66	-32.97	Pass
802.11g	2412	-46.89	-35.22	Pass
	2462	-47.10	-33.90	Pass
802.11n (HT20)	2412	-47.26	-35.39	Pass
	2462	-47.41	-33.99	Pass
802.11n (HT40)	2422	-45.12	-37.96	Pass
	2452	-44.67	-37.60	Pass

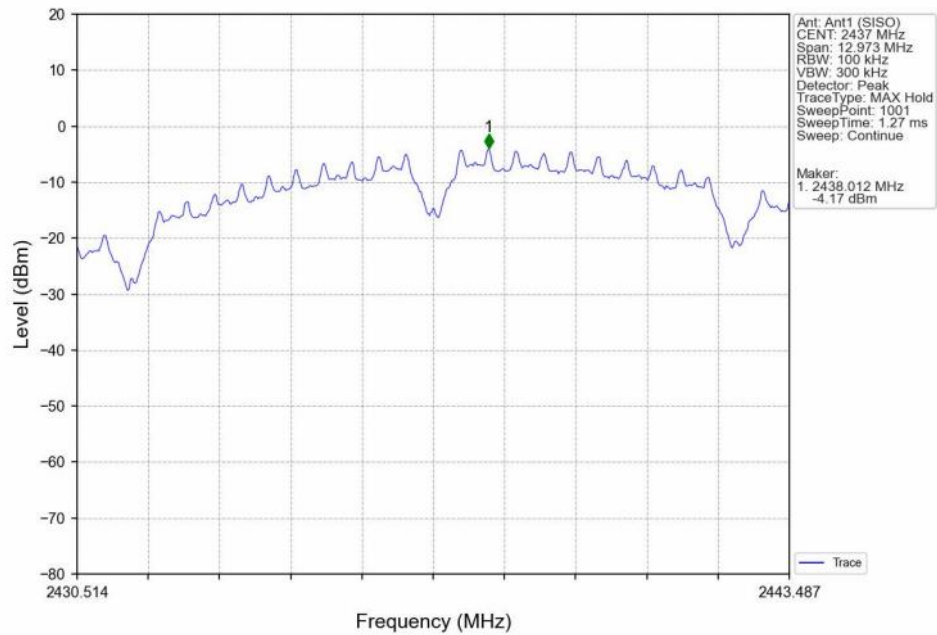
5.2 Test Graph

5.2.1 Ref

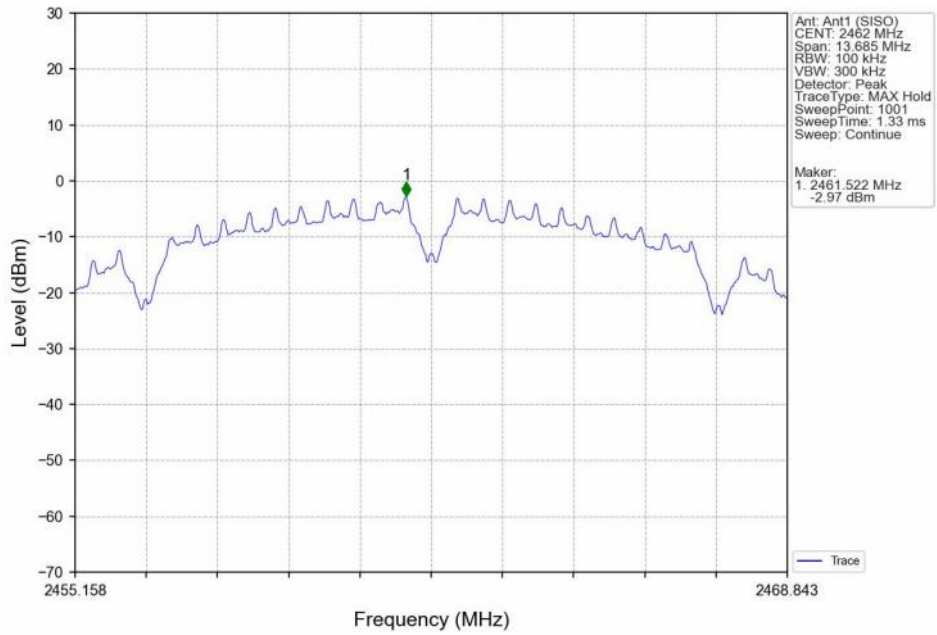
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



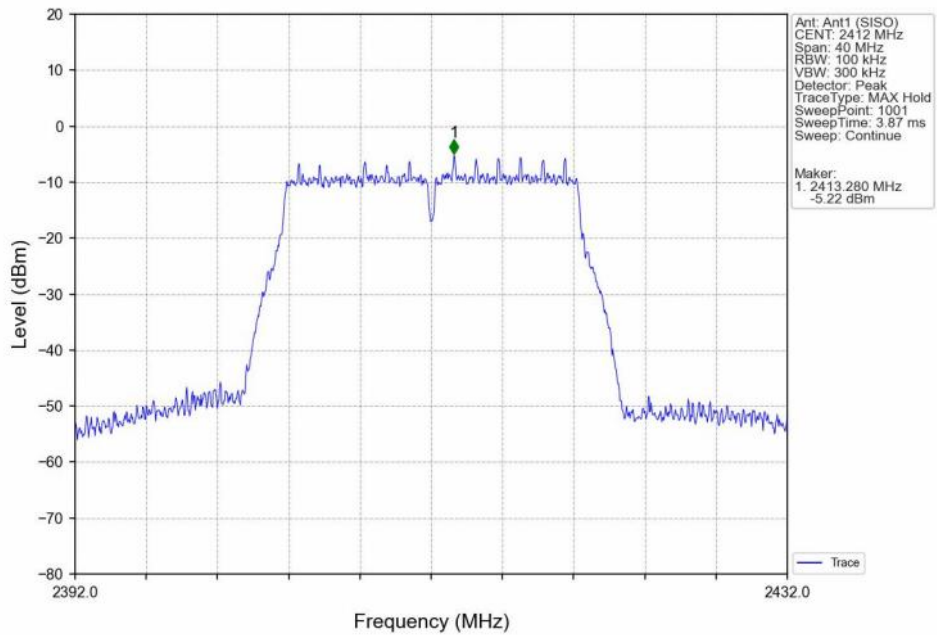
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



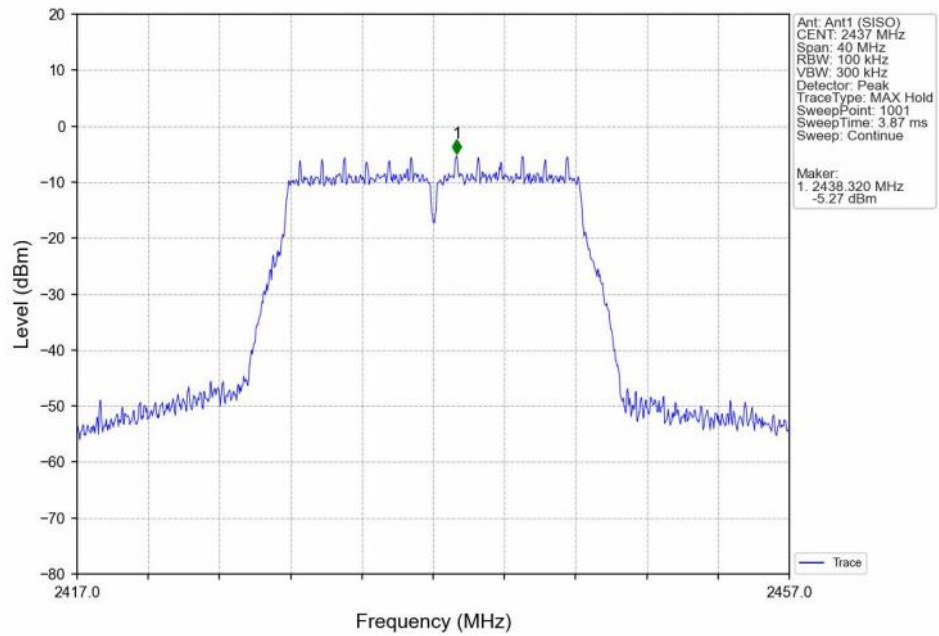
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



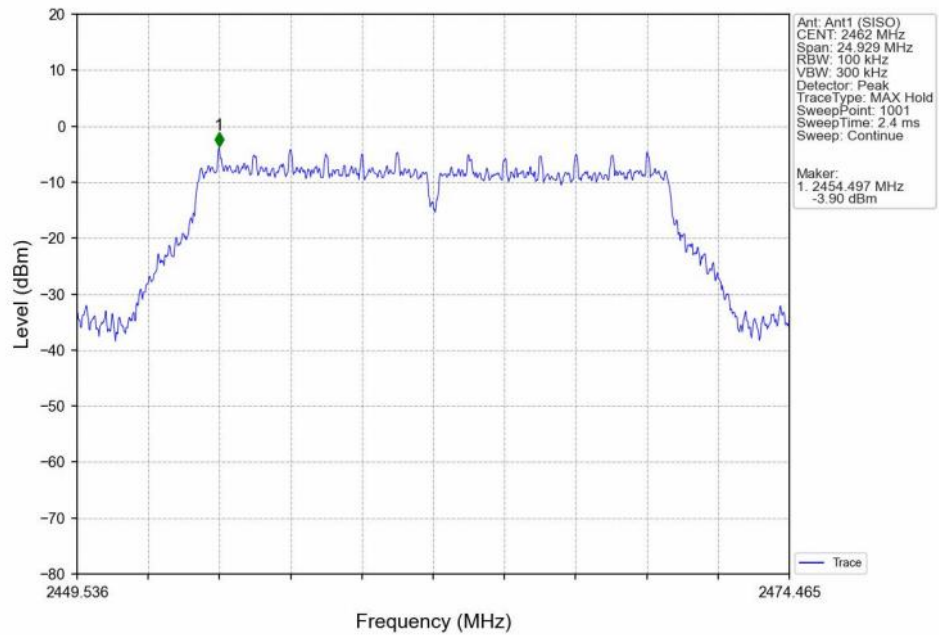
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



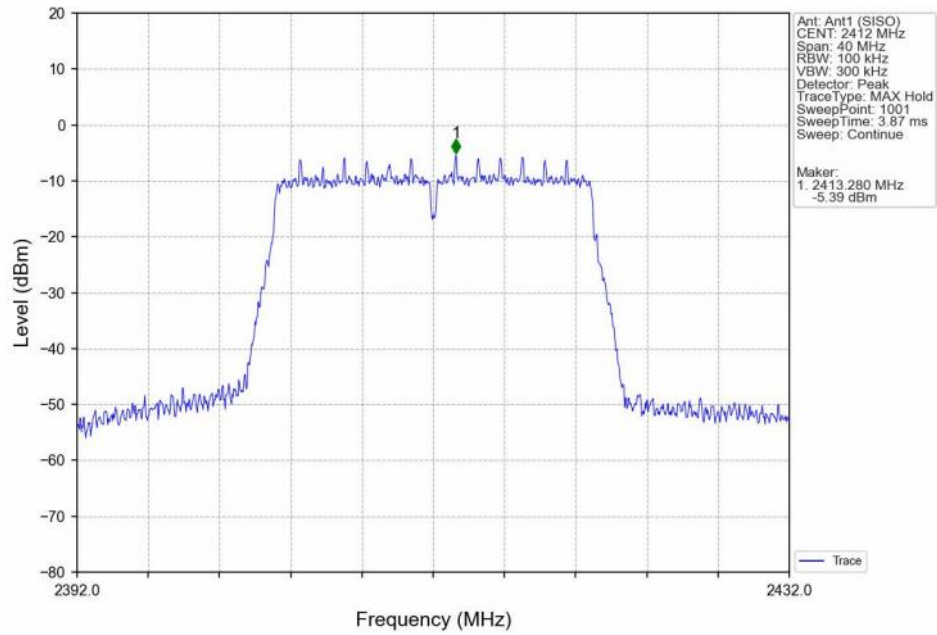
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



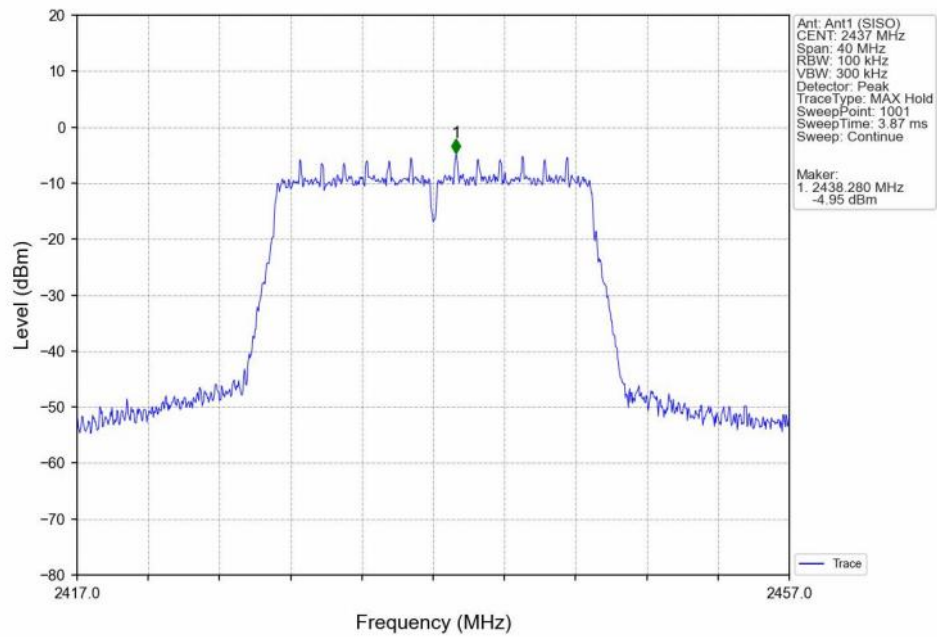
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



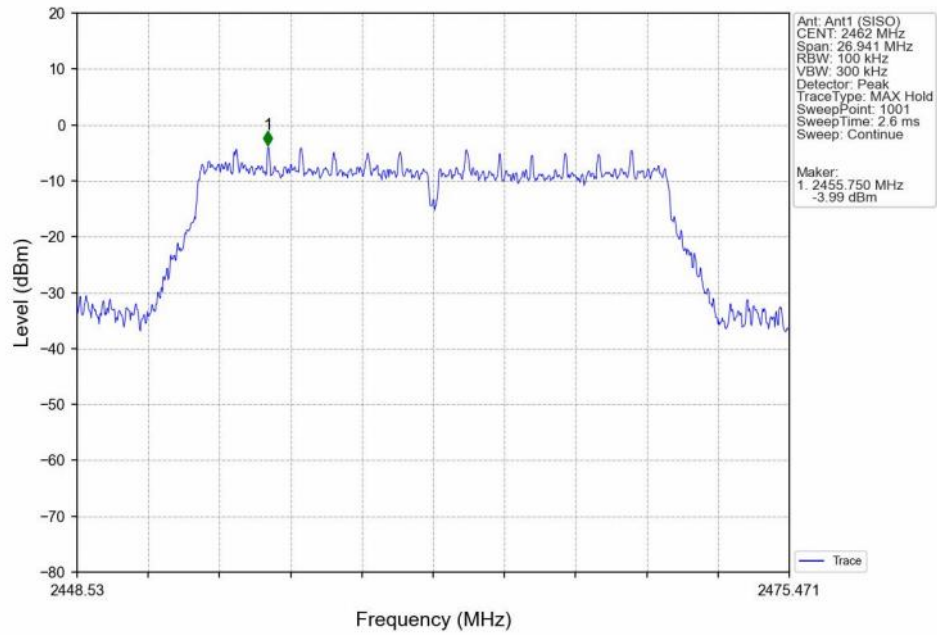
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



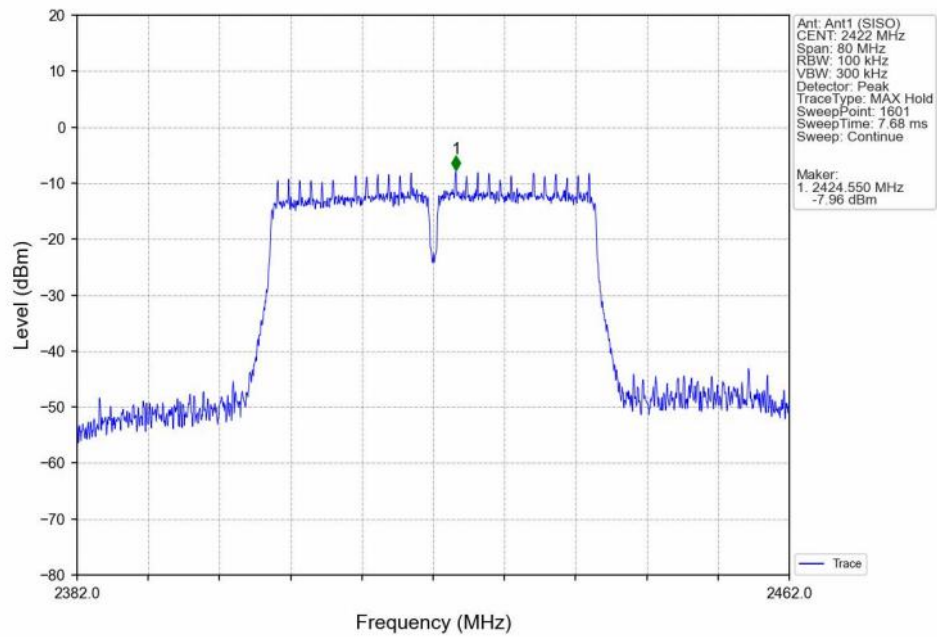
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



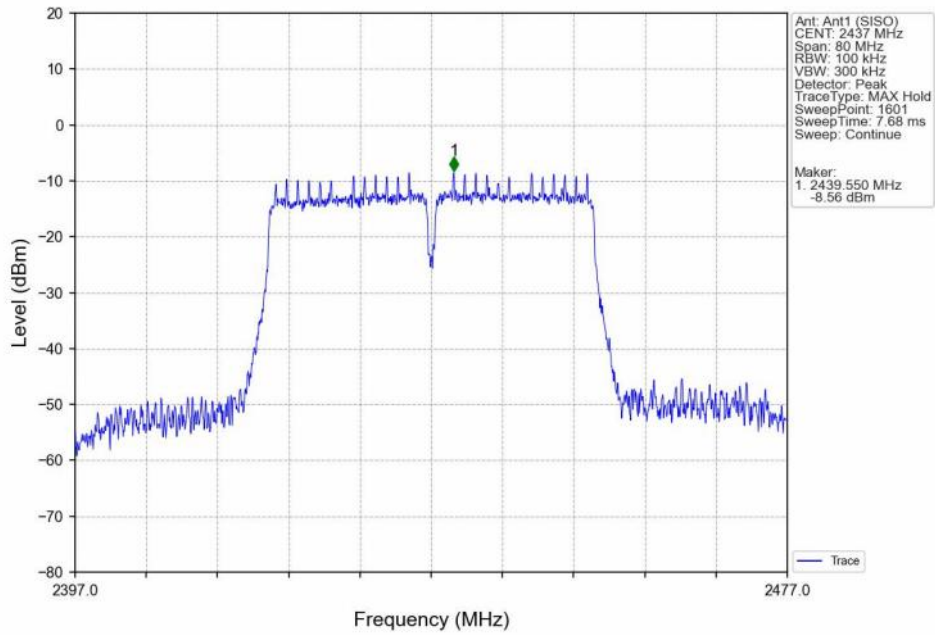
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



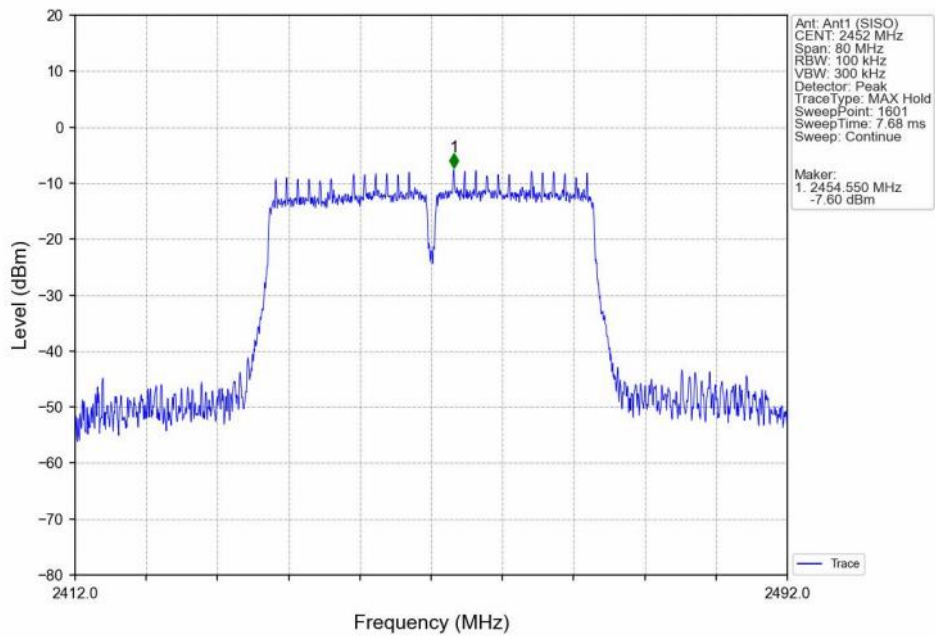
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

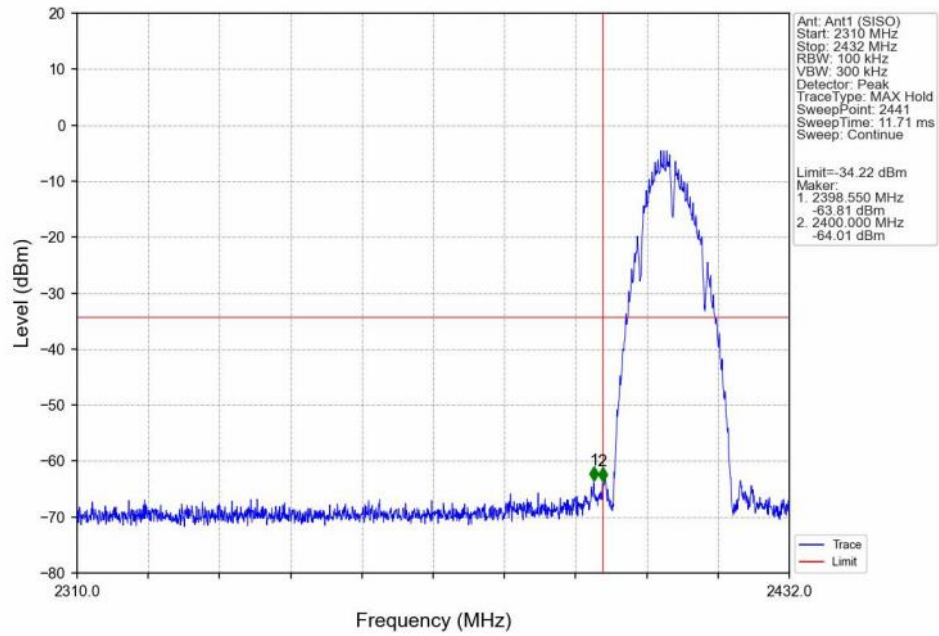


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

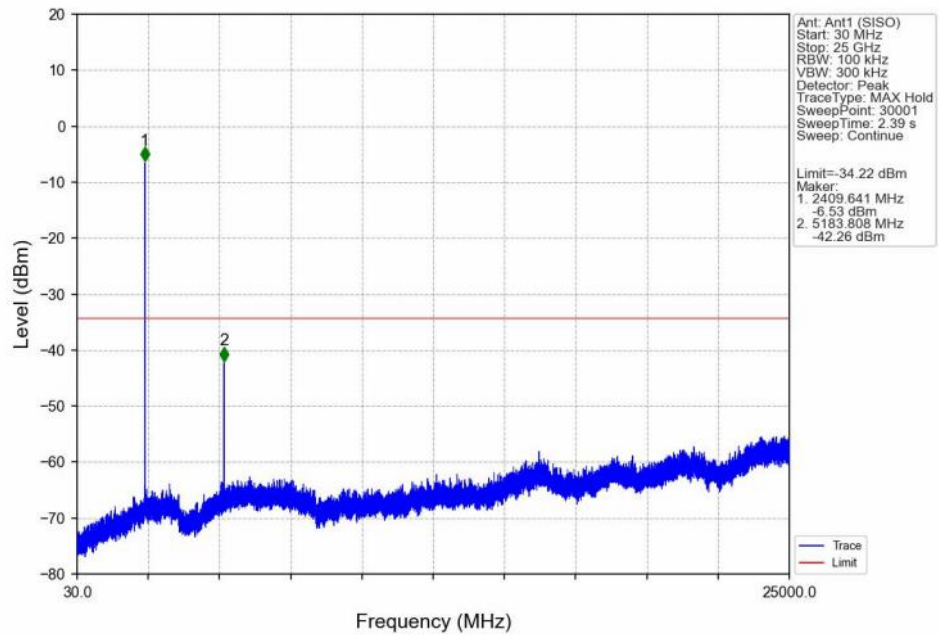


5.2.2 CSE

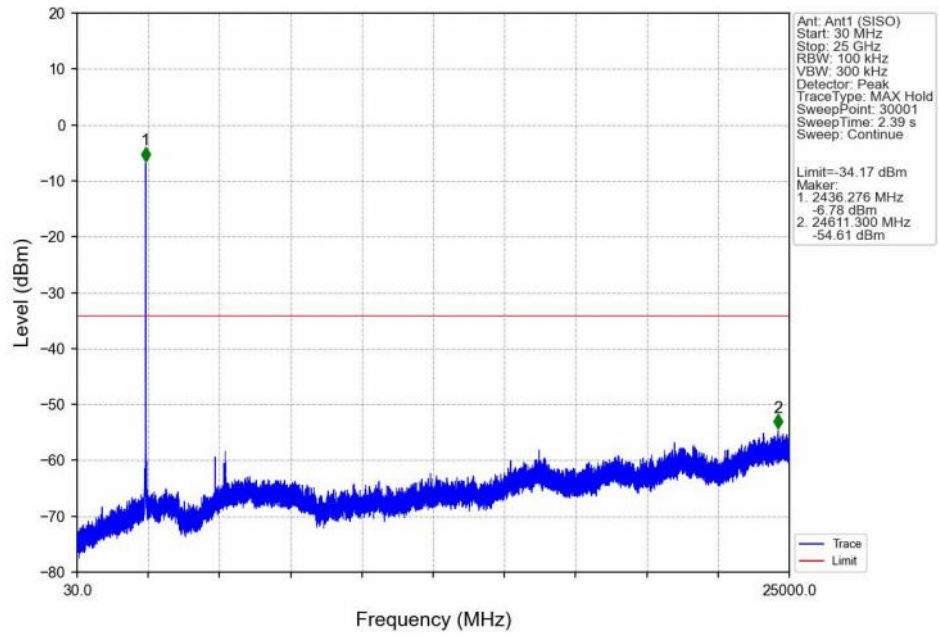
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



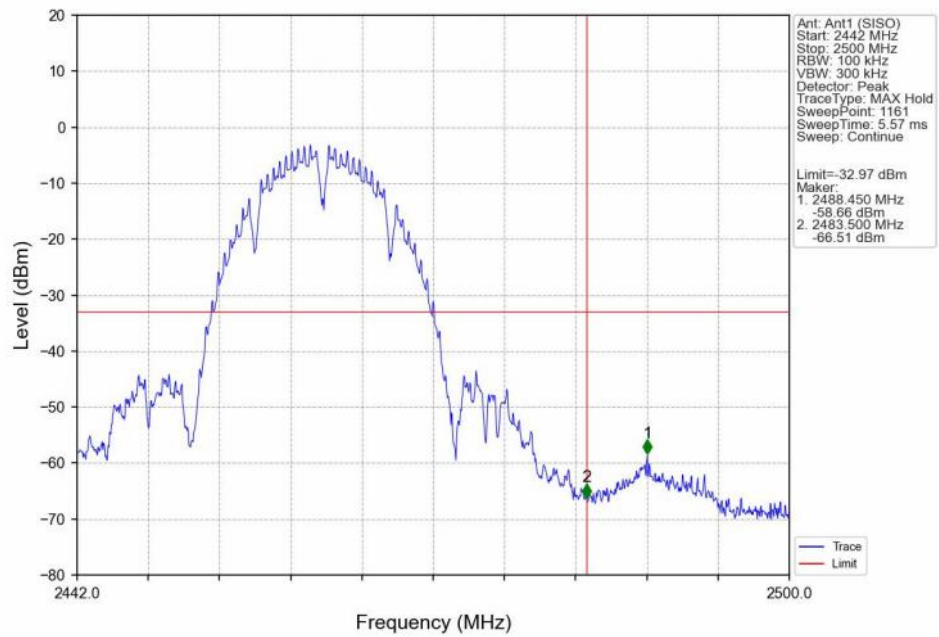
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



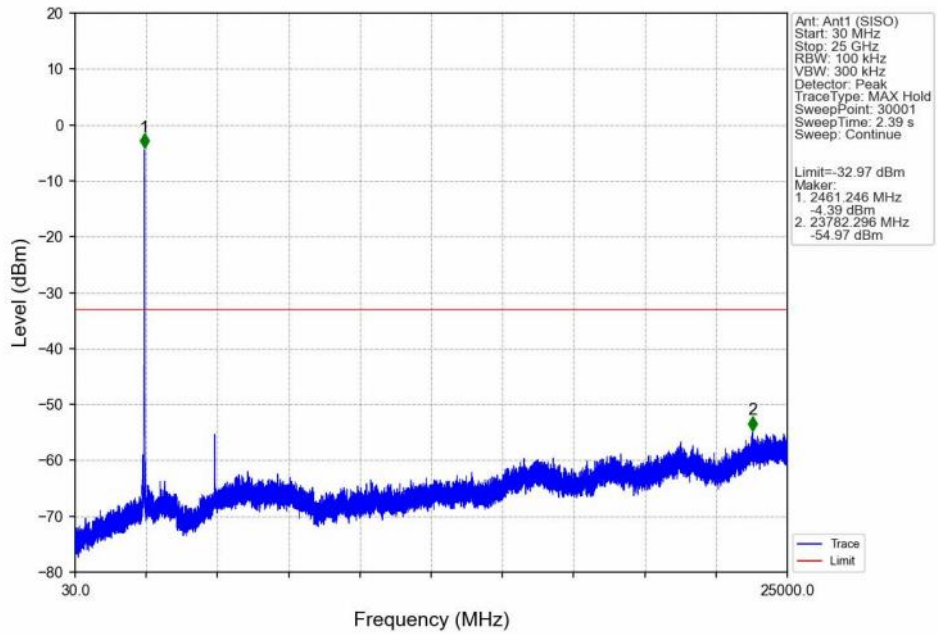
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



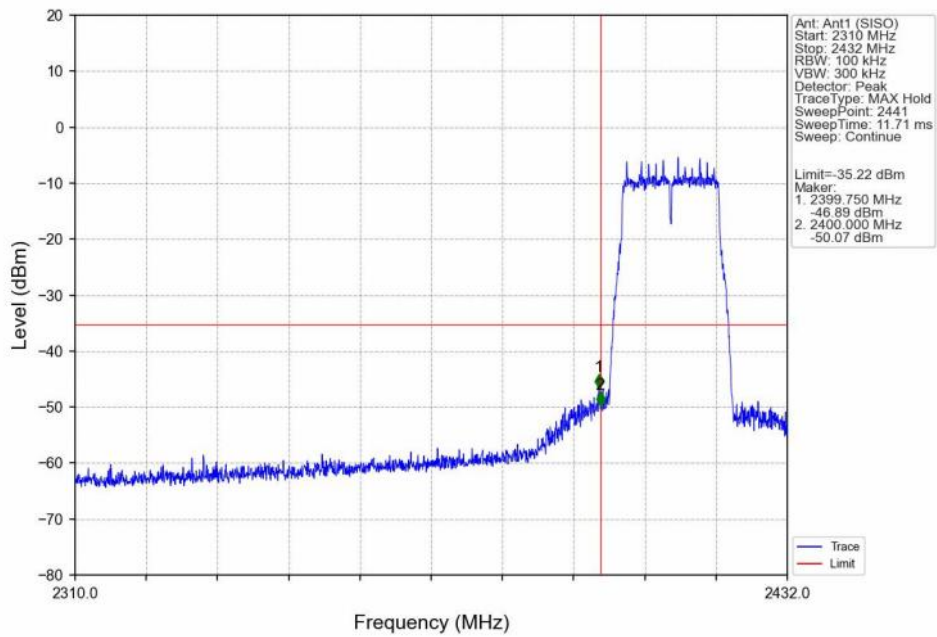
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



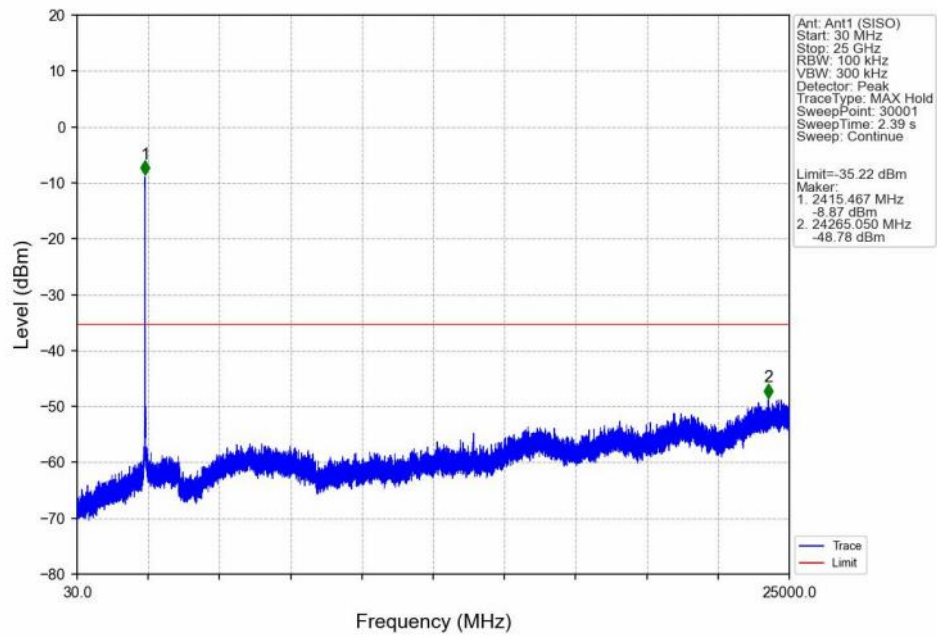
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



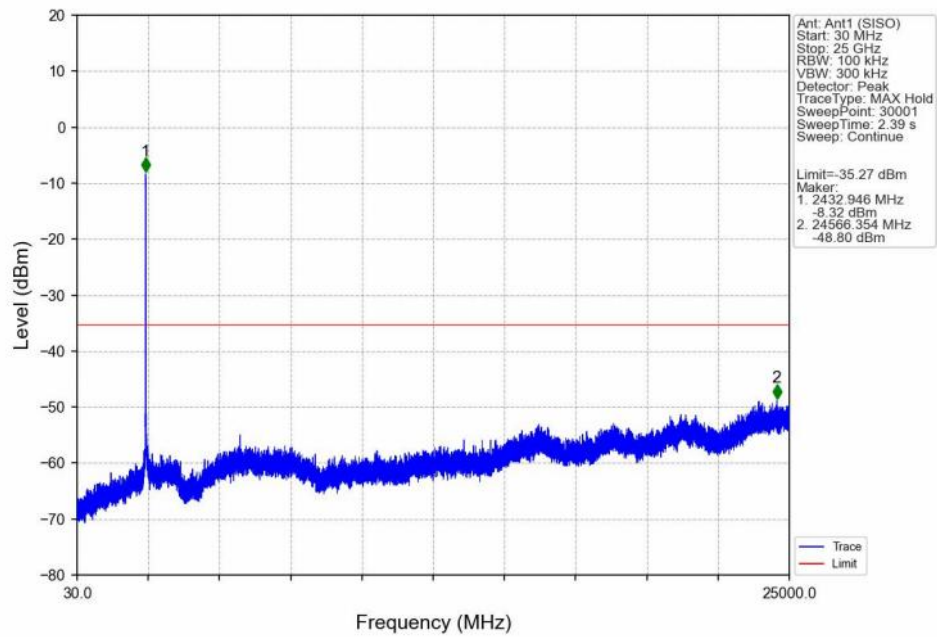
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



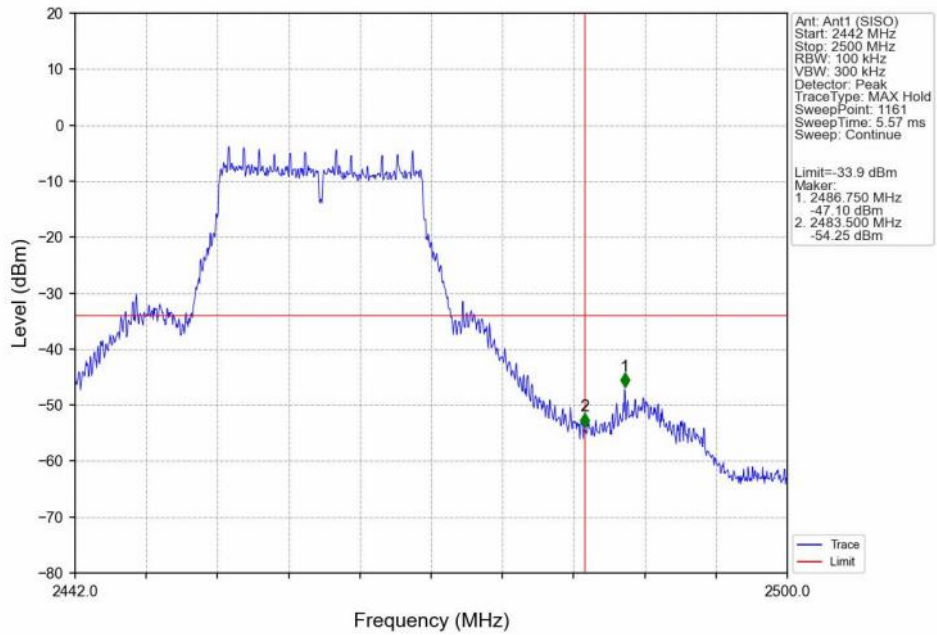
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



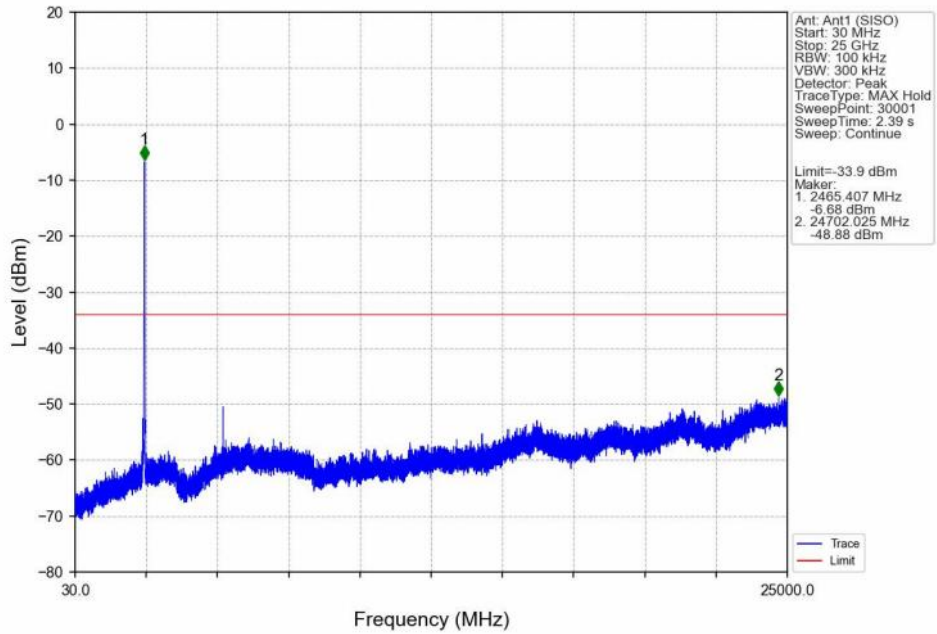
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



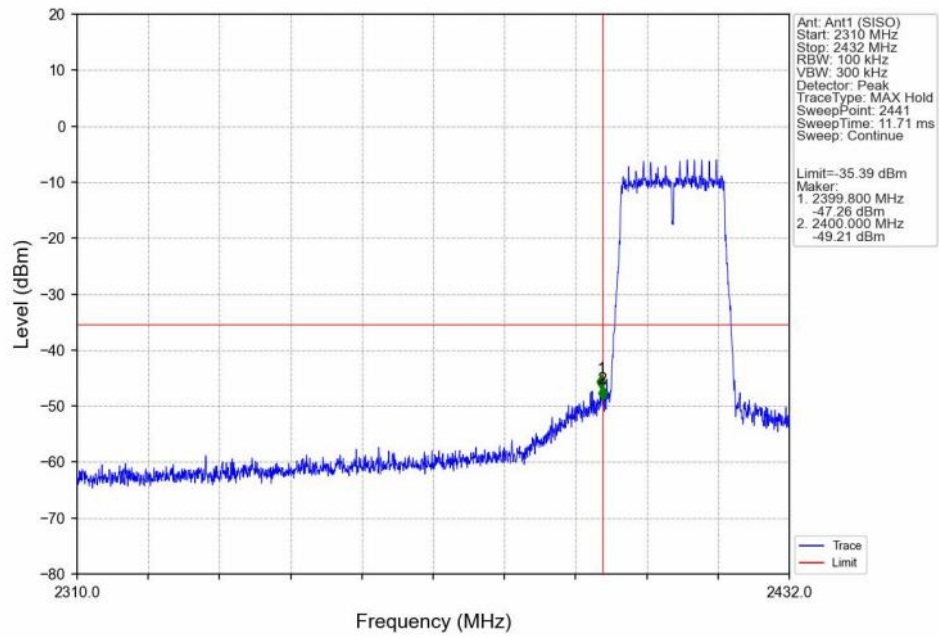
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



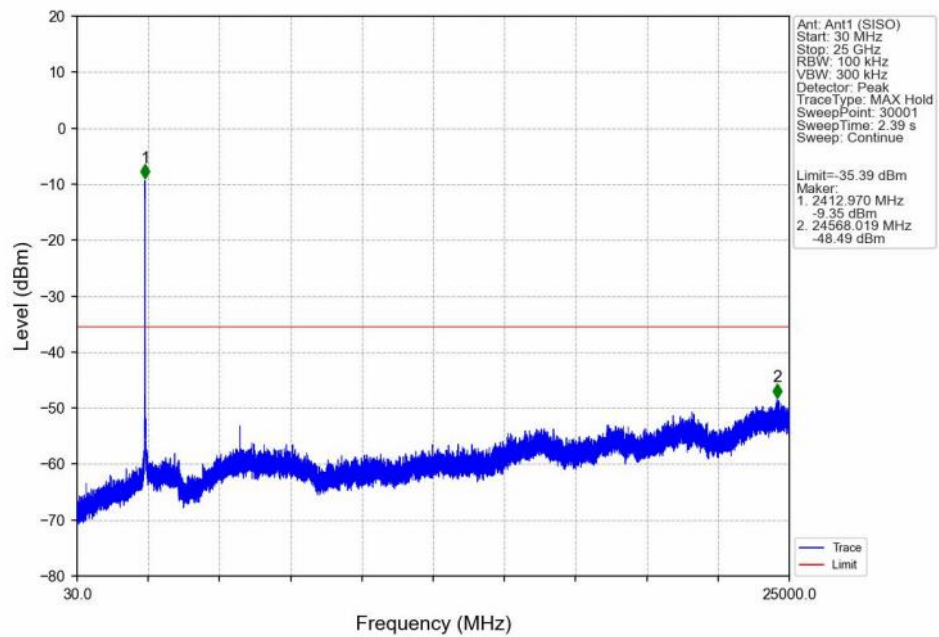
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



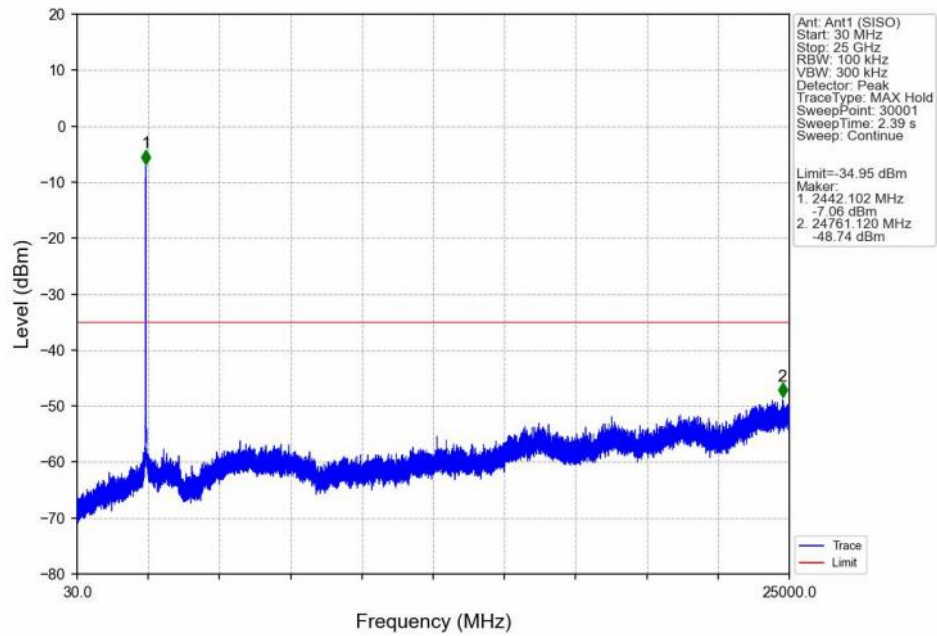
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



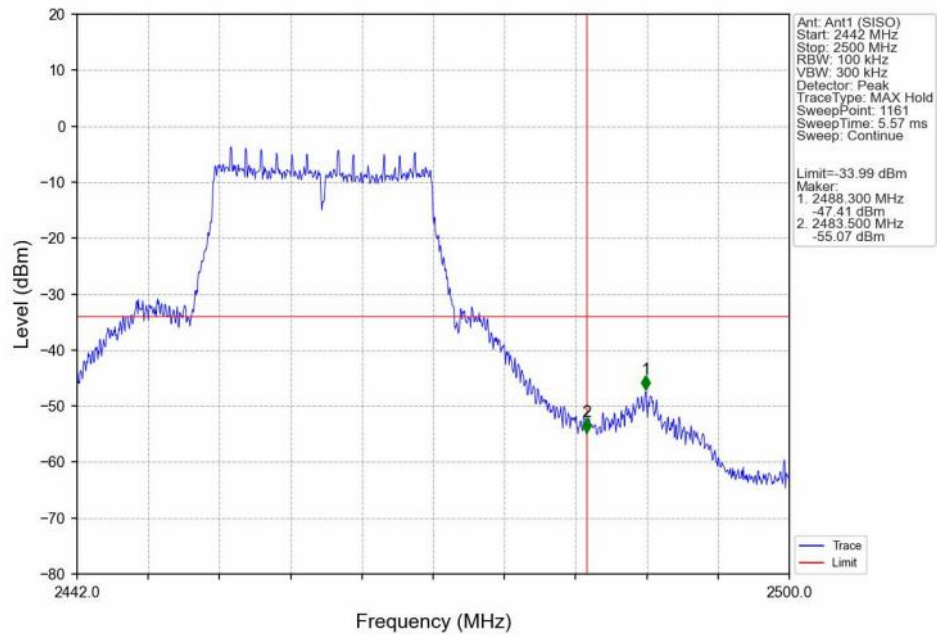
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



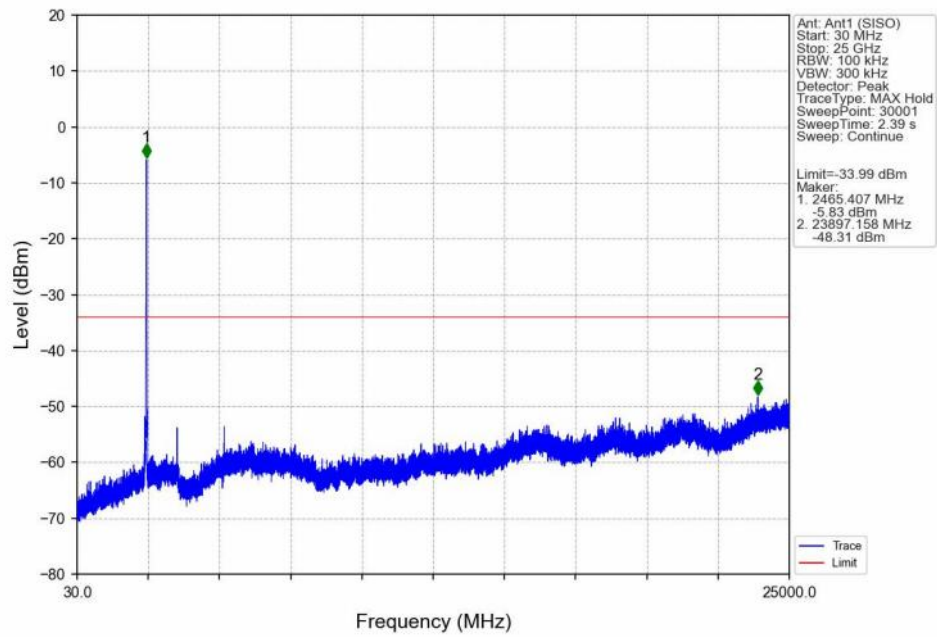
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



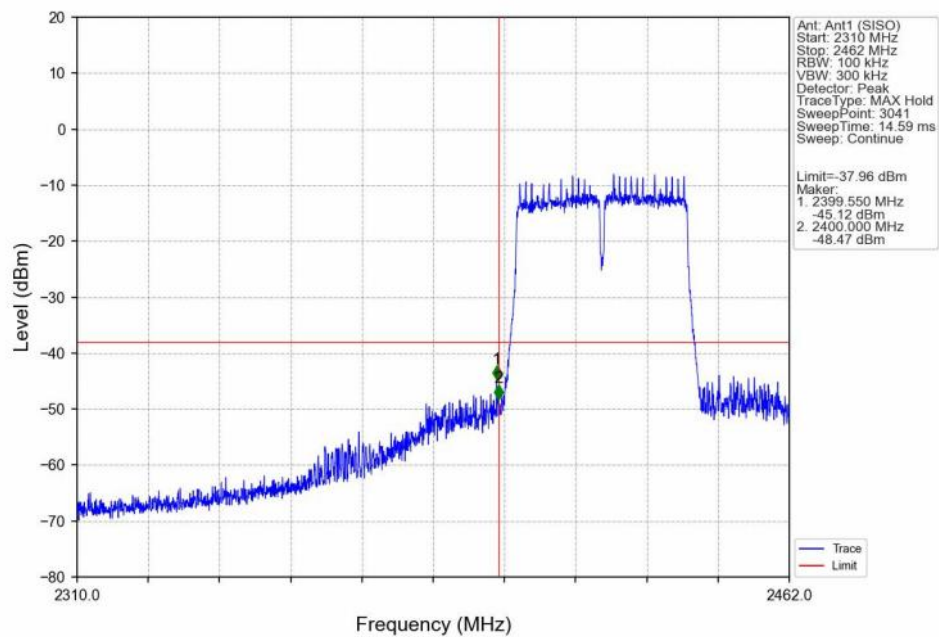
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



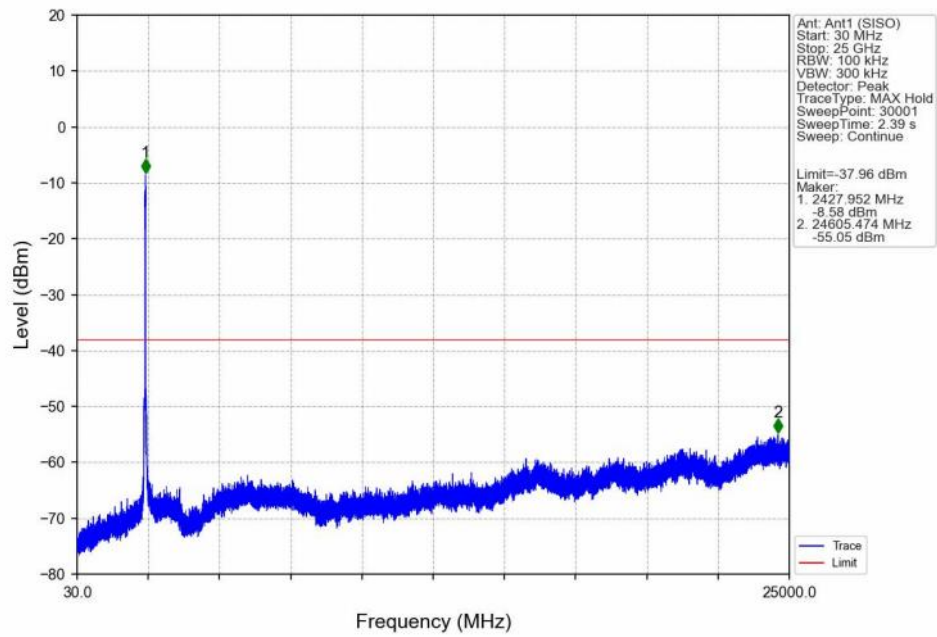
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



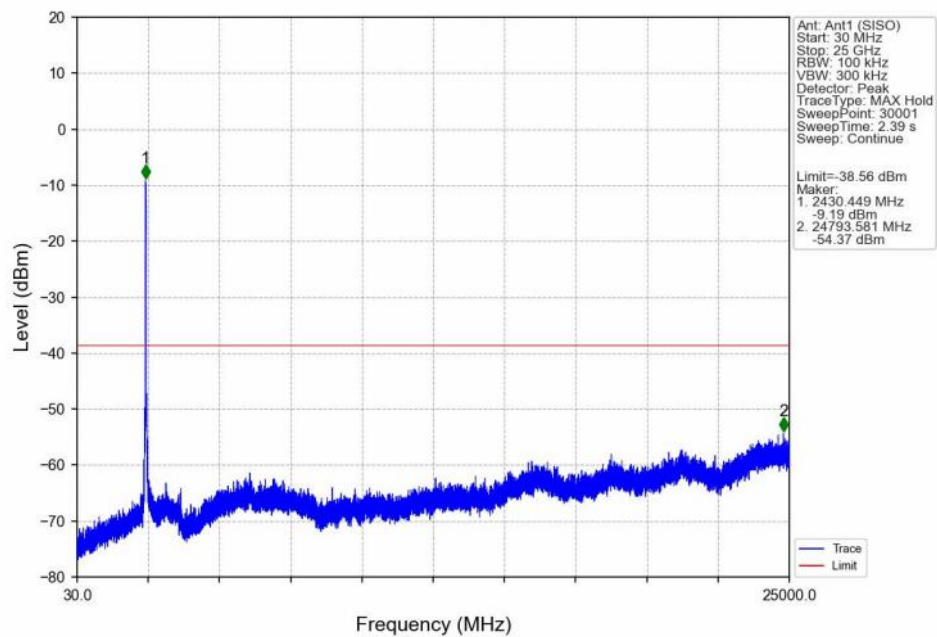
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



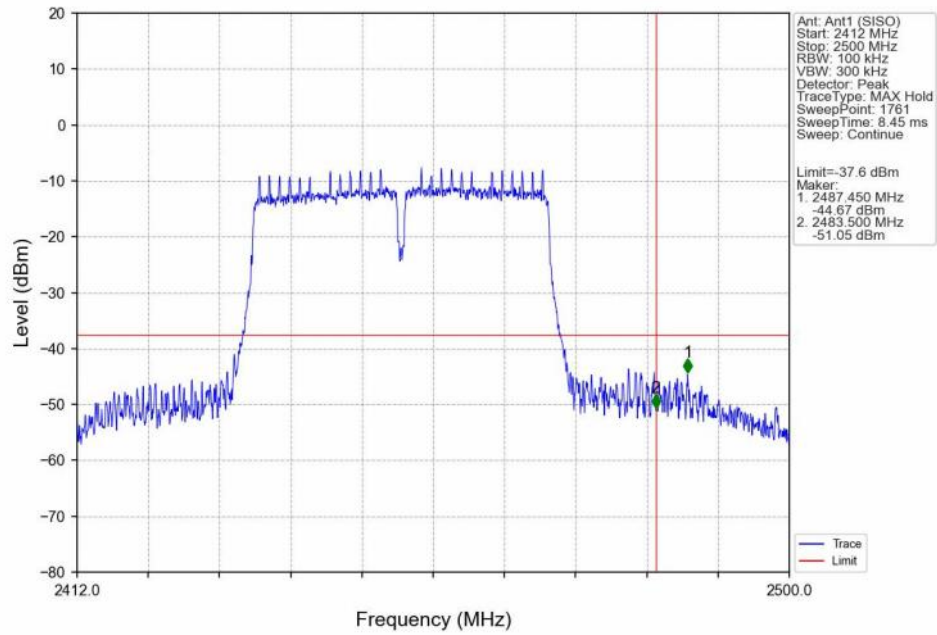
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



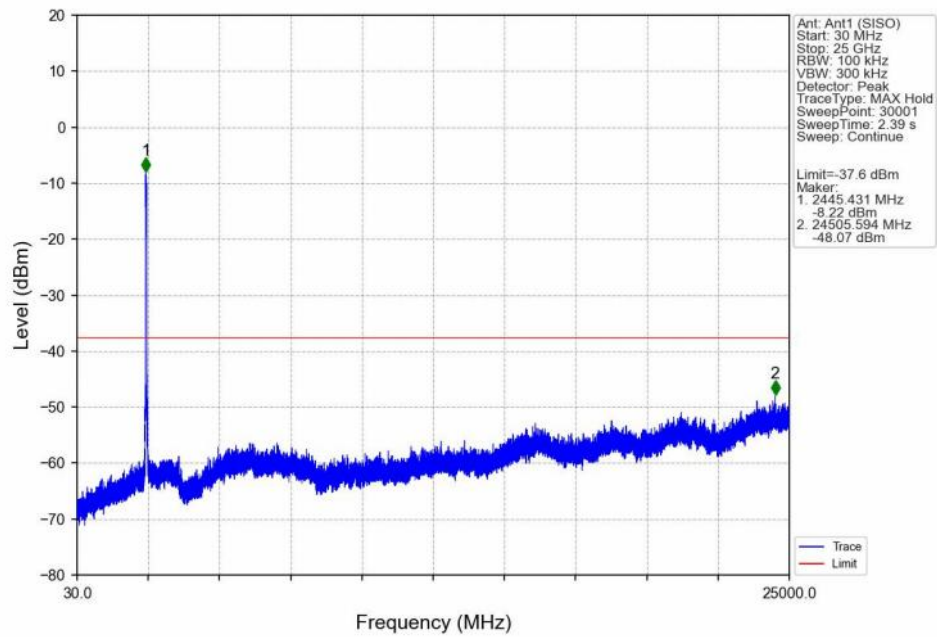
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



-THE END-