

1. Duty Cycle

1.1 Test Result

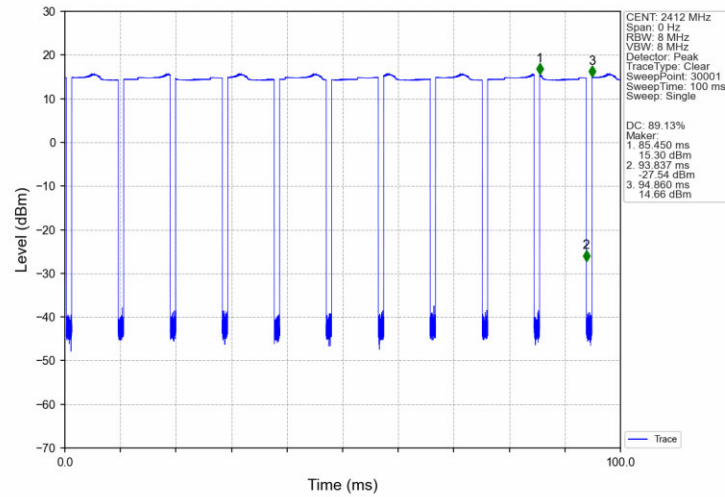
1.1.1 Ant1

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	8.387	9.410	89.13	0.50	0.51
		2437	8.383	9.390	89.28	0.49	0.35
		2462	8.386	9.393	89.28	0.49	0.35
802.11g	SISO	2412	1.393	2.372	58.73	2.31	0.29
		2437	1.393	2.363	58.95	2.30	1.42
		2462	1.392	2.362	58.93	2.30	0.05
802.11n (HT20)	SISO	2412	1.289	2.295	56.17	2.51	0.90
		2437	1.288	2.268	56.79	2.46	0.29
		2462	1.289	2.268	56.83	2.45	1.67
802.11n (HT40)	SISO	2422	0.632	1.603	39.43	4.04	17.65
		2437	0.633	1.613	39.24	4.06	0.24
		2452	0.634	1.675	37.85	4.22	12.09

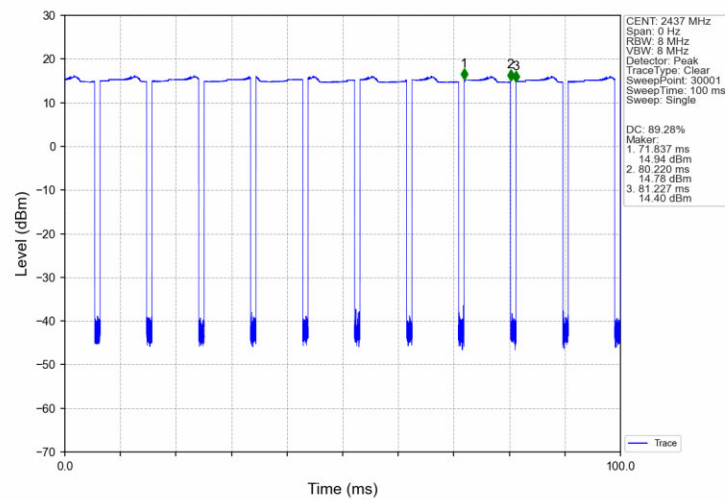
1.2 Test Graph

1.2.1 Ant1

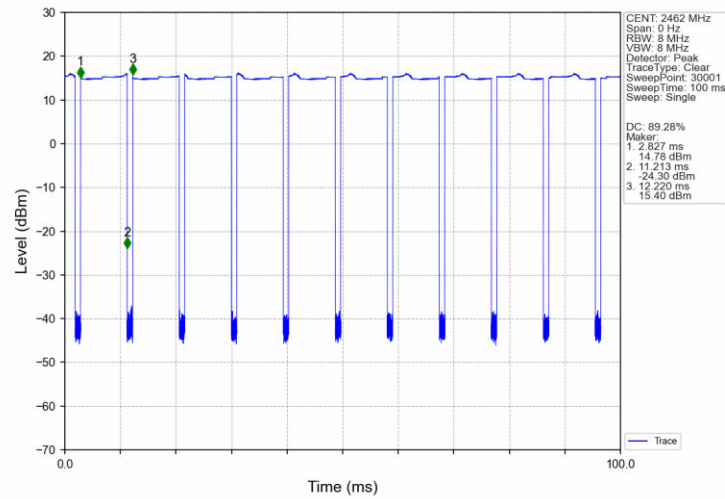
802.11b LCH 2412MHz Ant1 (SISO) NTN



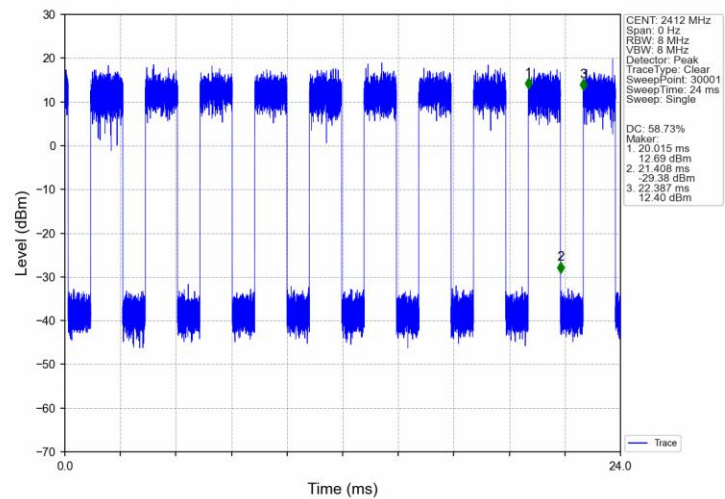
802.11b MCH 2437MHz Ant1 (SISO) NTN



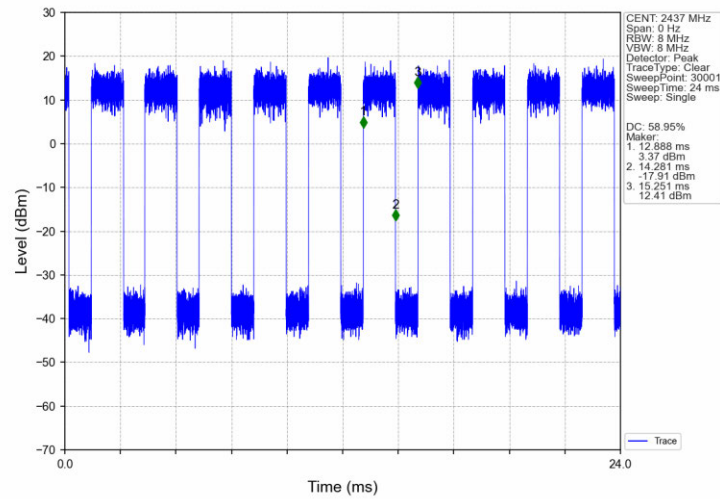
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



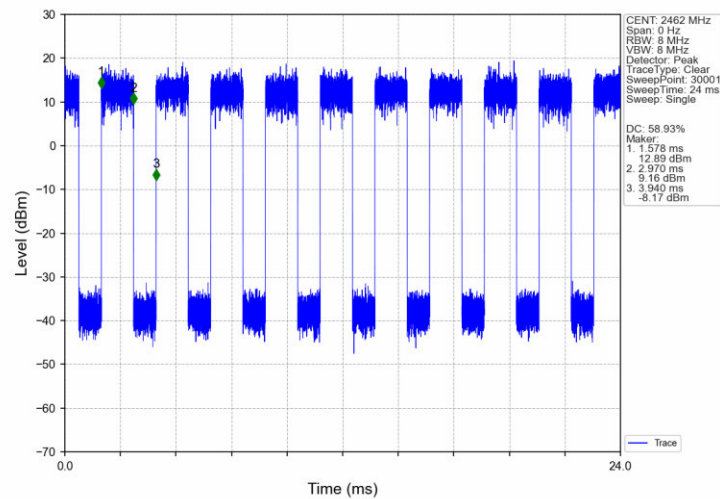
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



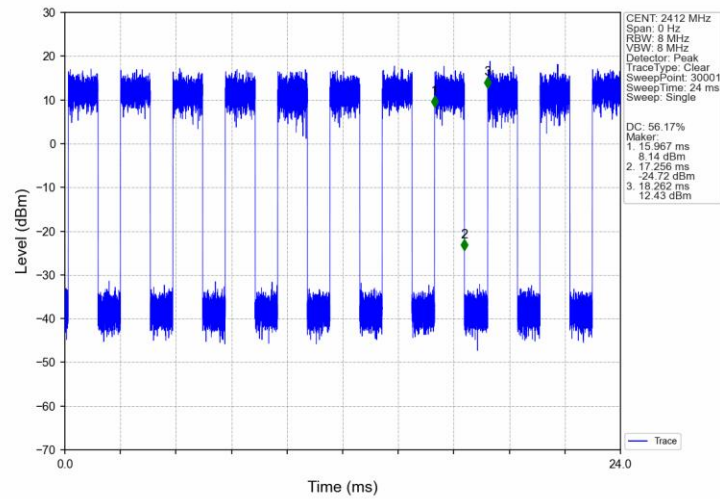
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



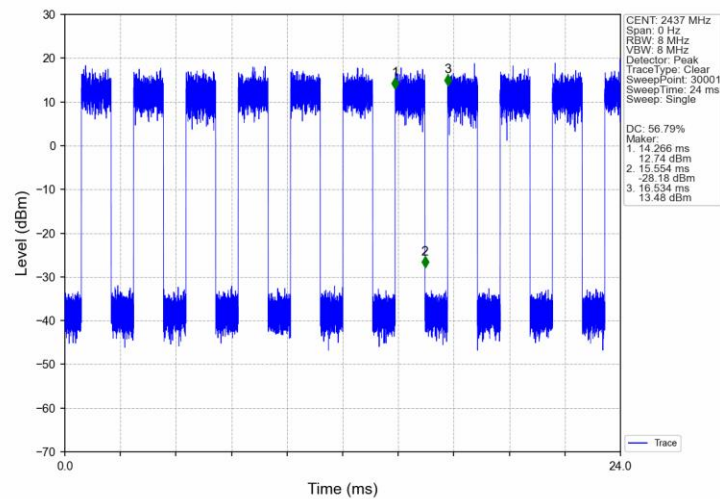
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



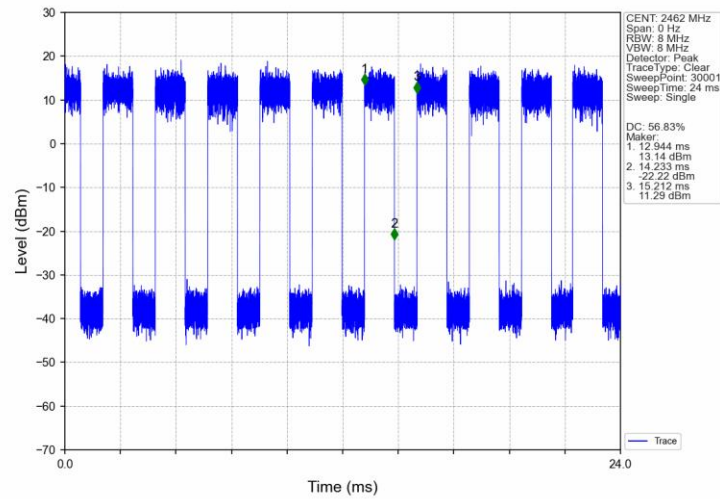
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



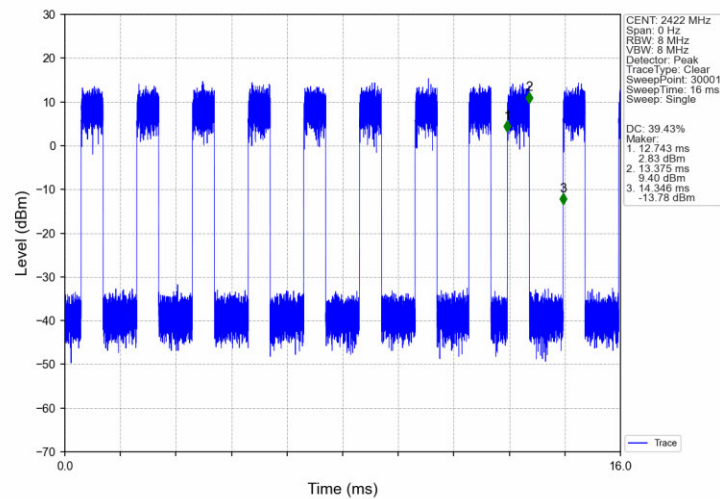
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



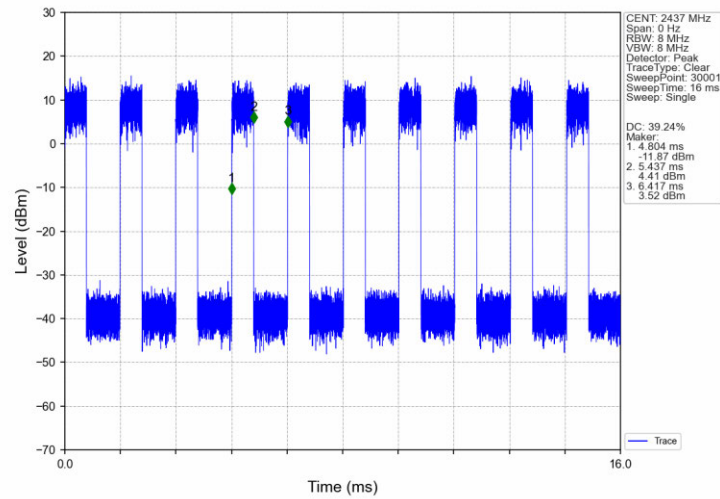
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



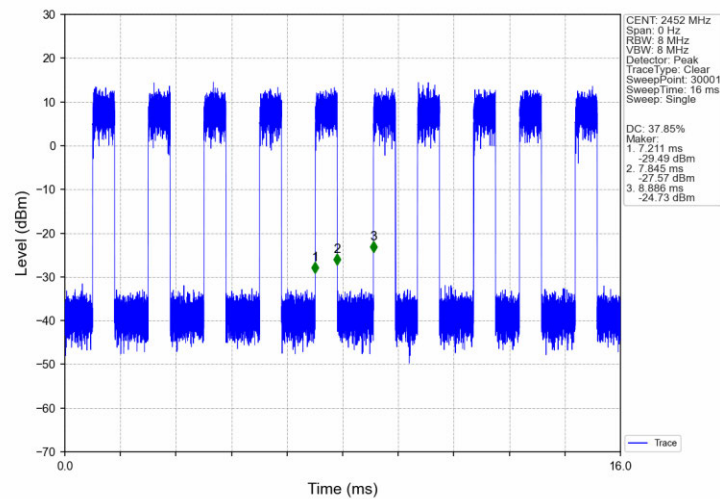
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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

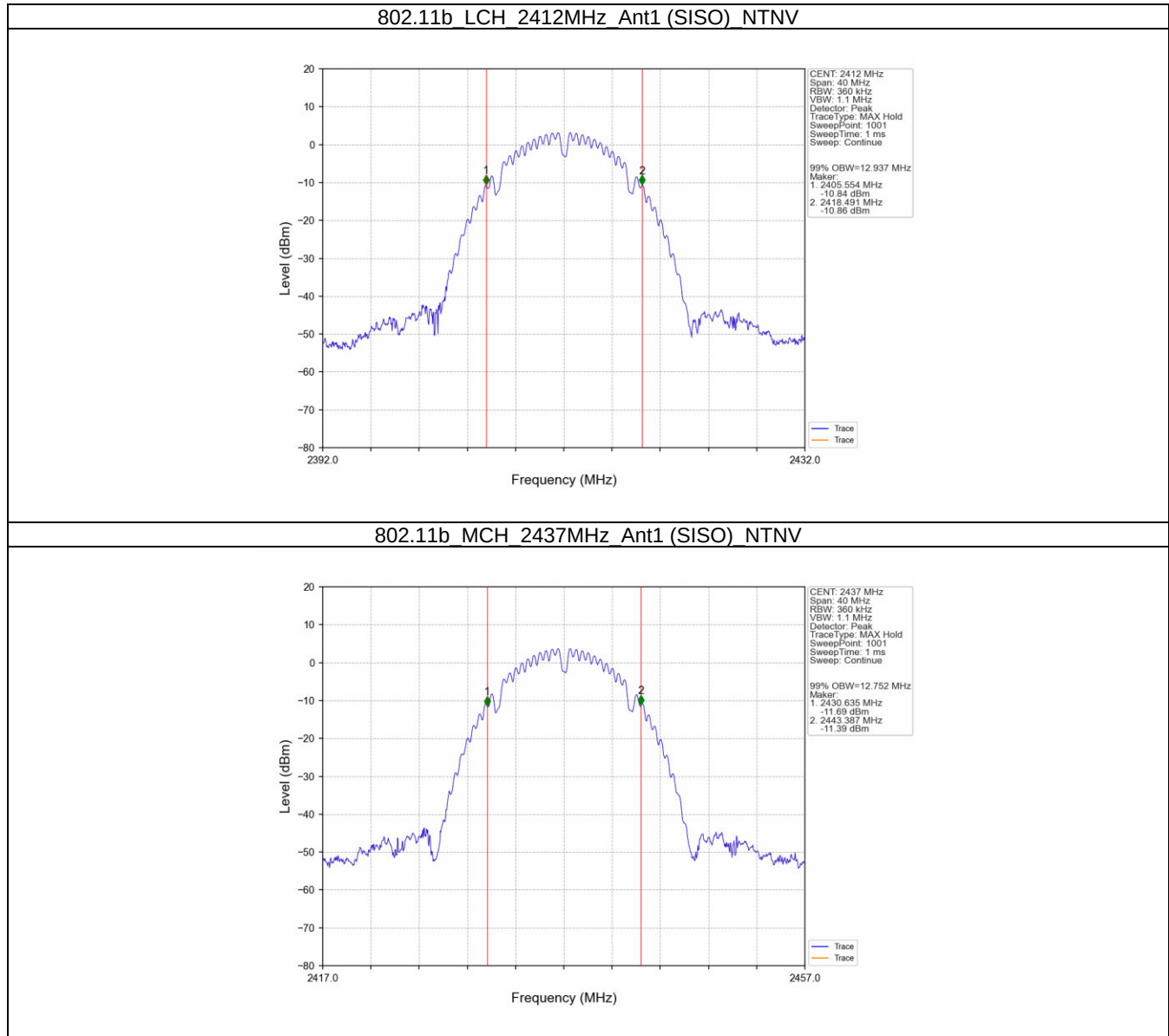
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.937	/	Pass
		2437	1	12.752	/	Pass
		2462	1	12.582	/	Pass
802.11g	SISO	2412	1	17.330	/	Pass
		2437	1	17.296	/	Pass
		2462	1	17.201	/	Pass
802.11n (HT20)	SISO	2412	1	18.148	/	Pass
		2437	1	18.062	/	Pass
		2462	1	18.006	/	Pass
802.11n (HT40)	SISO	2422	1	36.443	/	Pass
		2437	1	36.020	/	Pass
		2452	1	36.408	/	Pass

2.1.2 6dB BW

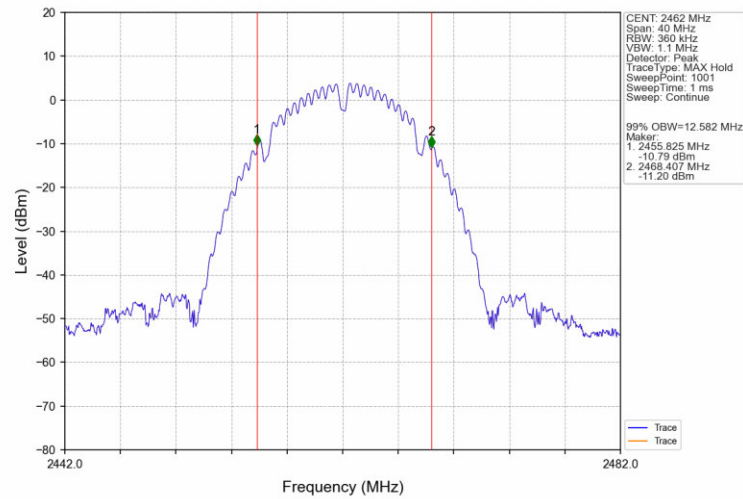
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.108	≥ 0.5	Pass
		2437	1	8.082	≥ 0.5	Pass
		2462	1	8.089	≥ 0.5	Pass
802.11g	SISO	2412	1	15.154	≥ 0.5	Pass
		2437	1	15.131	≥ 0.5	Pass
		2462	1	15.141	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	15.154	≥ 0.5	Pass
		2437	1	15.150	≥ 0.5	Pass
		2462	1	15.144	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.114	≥ 0.5	Pass
		2437	1	32.595	≥ 0.5	Pass
		2452	1	35.173	≥ 0.5	Pass

2.2 Test Graph

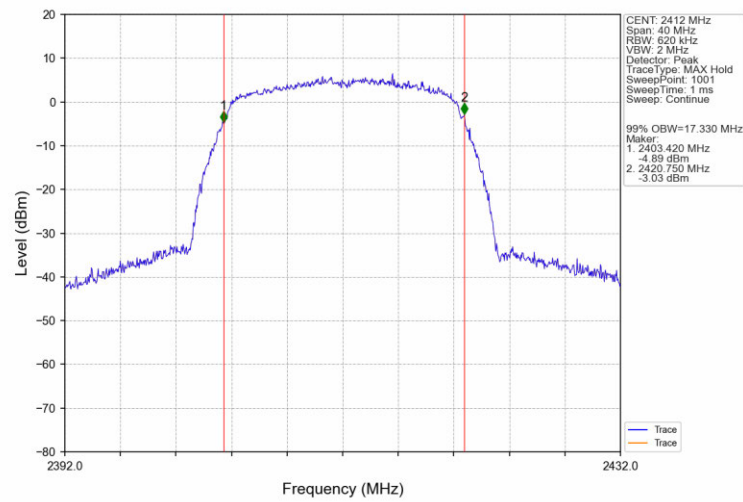
2.2.1 OBW



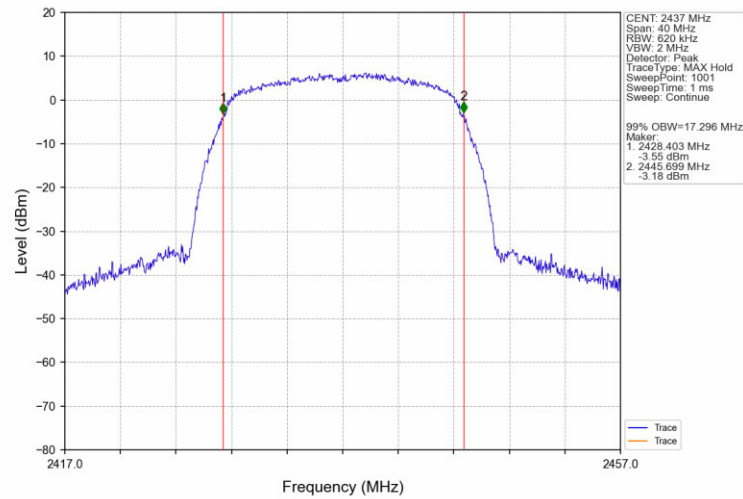
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



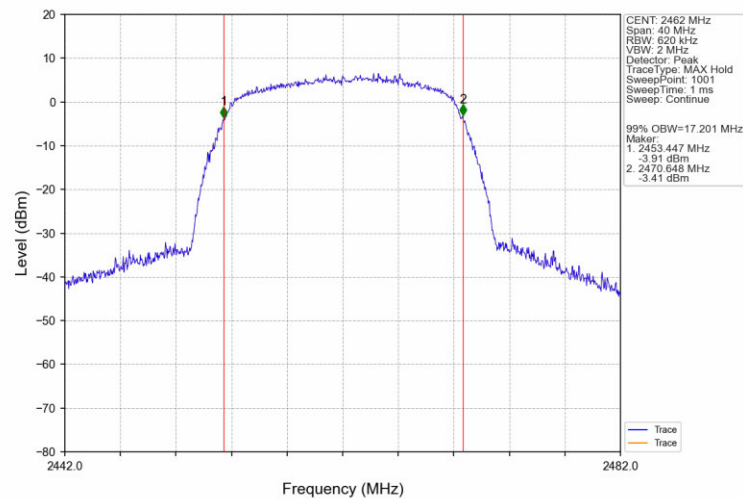
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



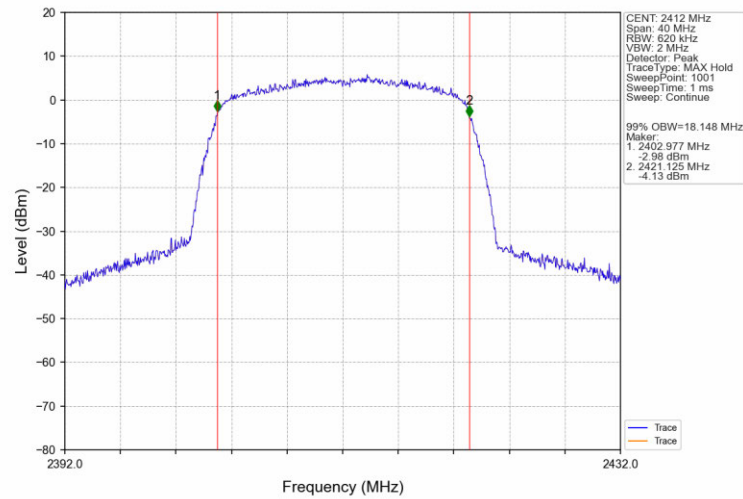
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



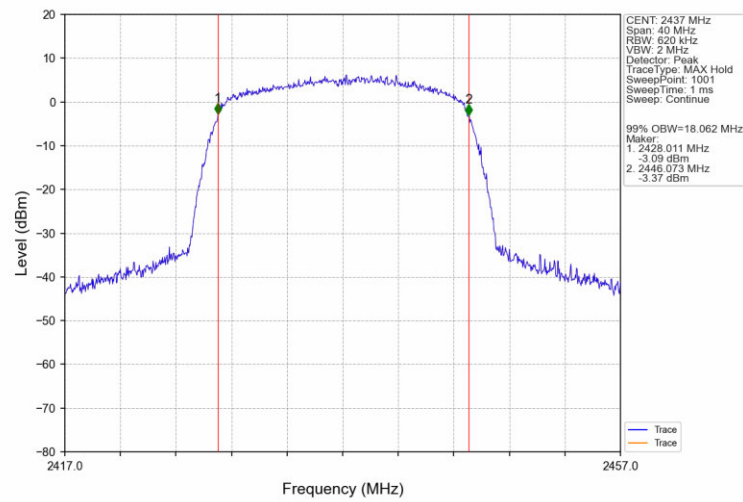
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



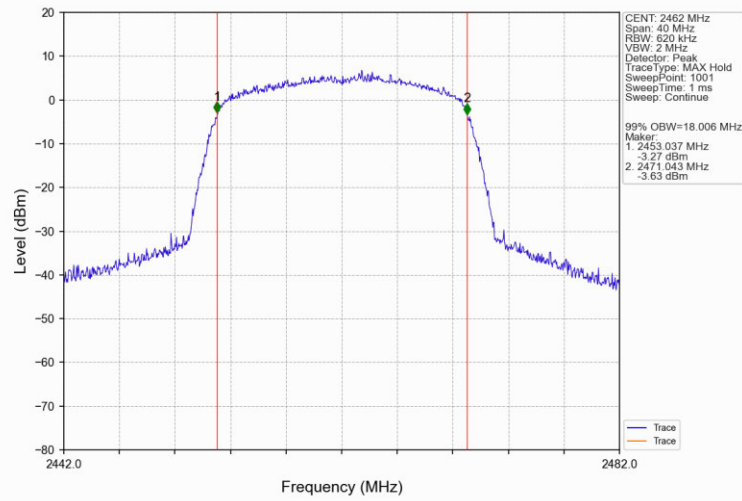
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



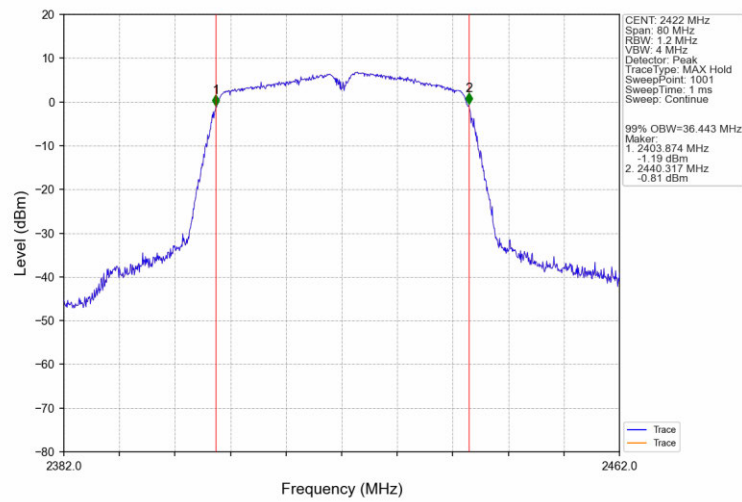
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



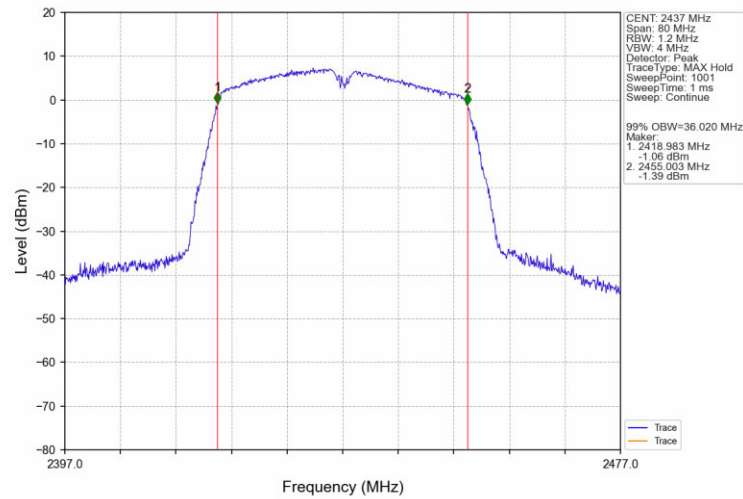
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



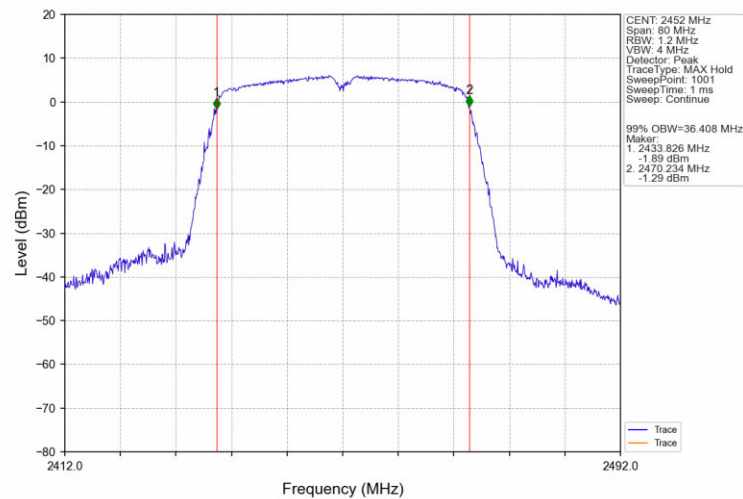
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

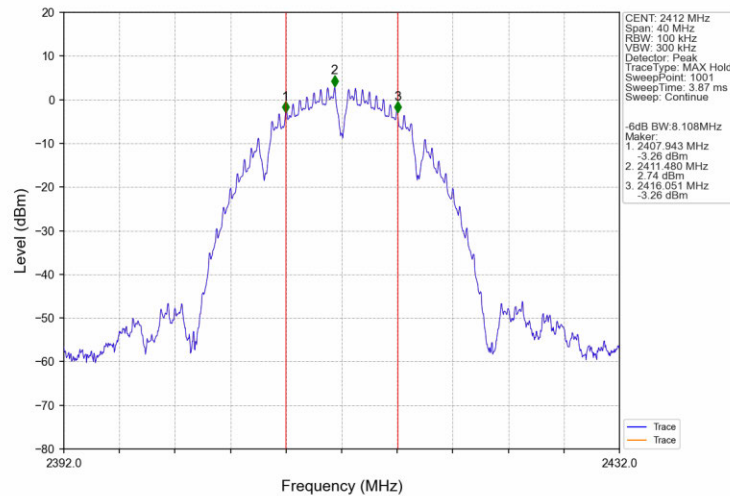


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

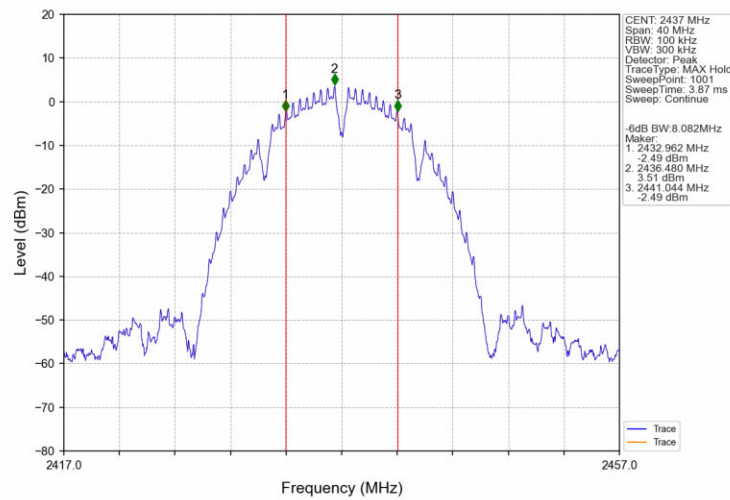


2.2.2 6dB BW

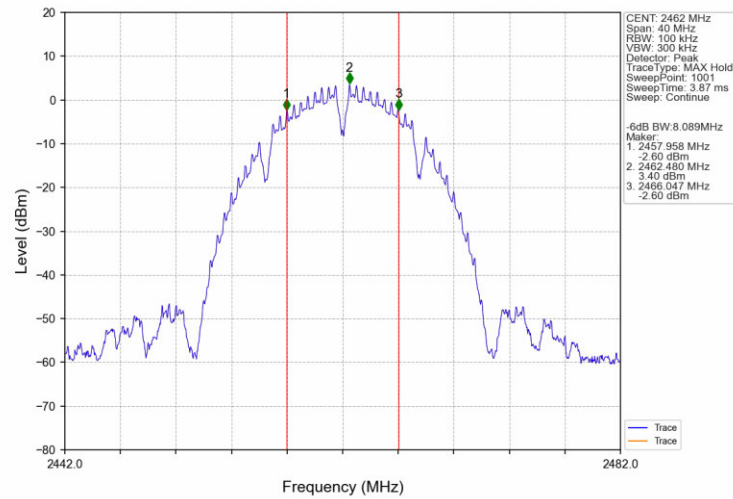
802.11b LCH 2412MHz Ant1 (SISO) NTN



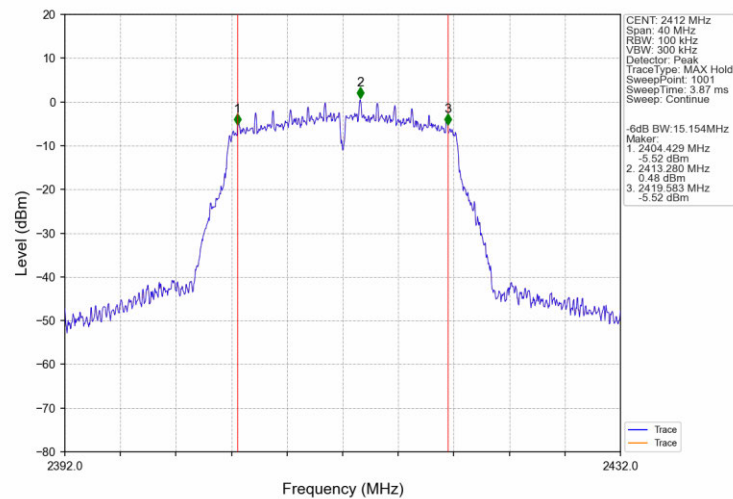
802.11b MCH 2437MHz Ant1 (SISO) NTN



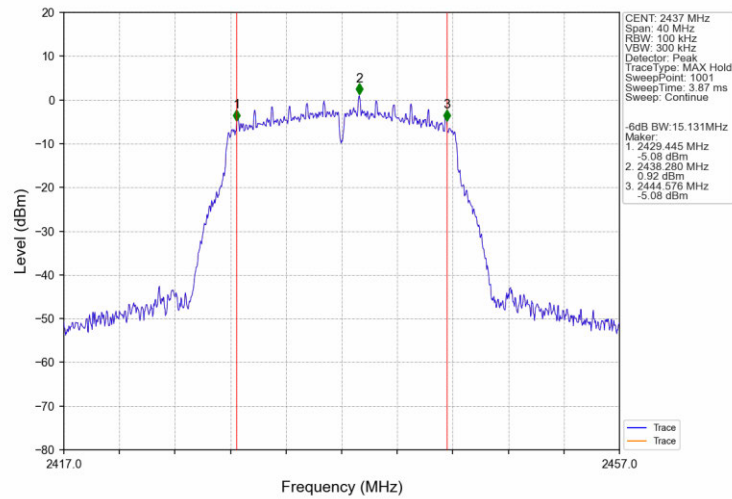
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



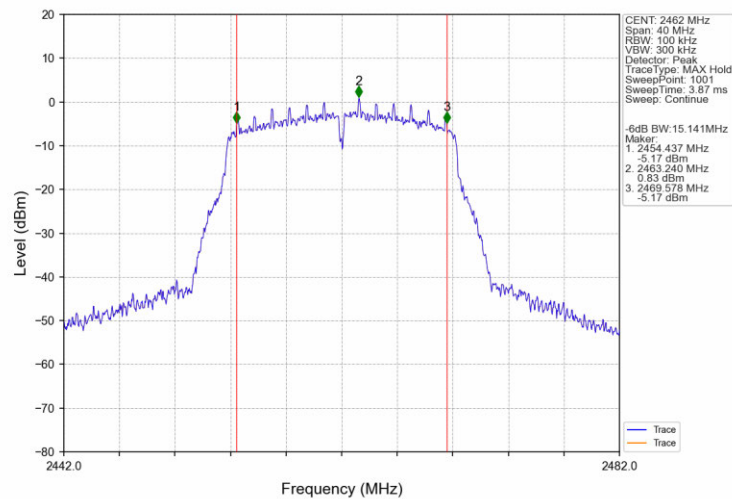
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



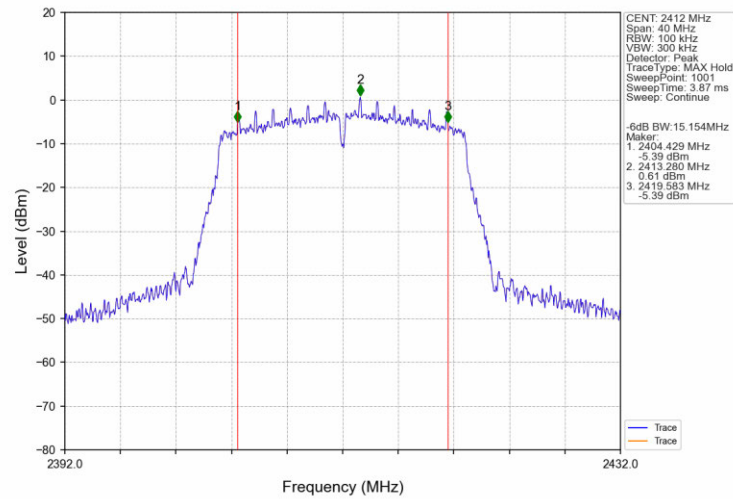
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



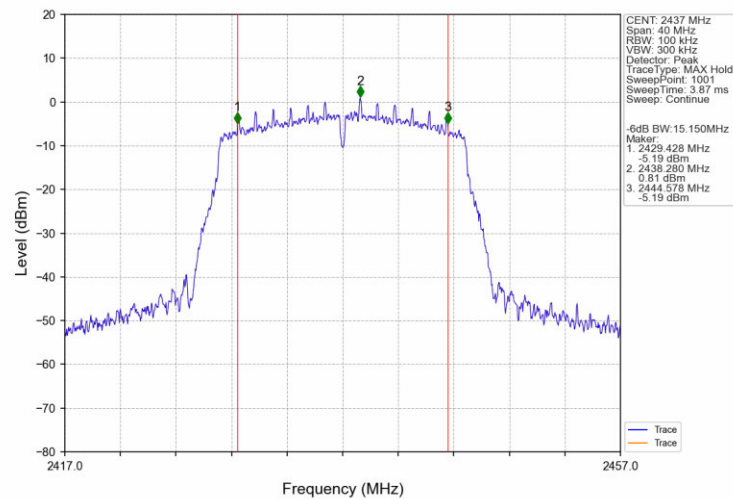
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



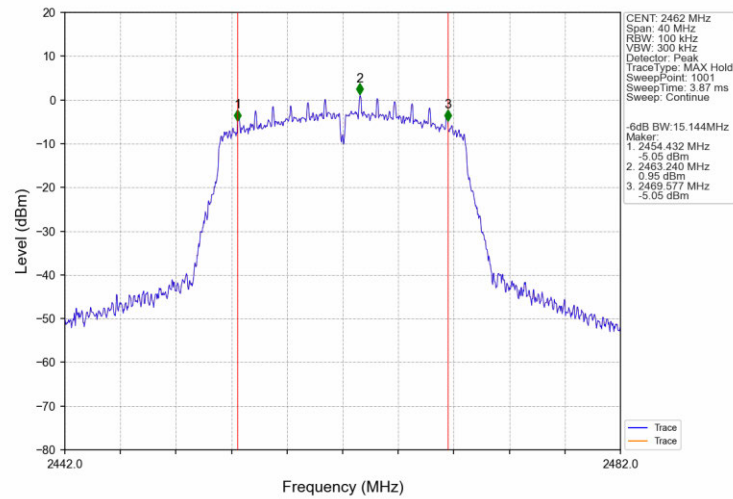
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



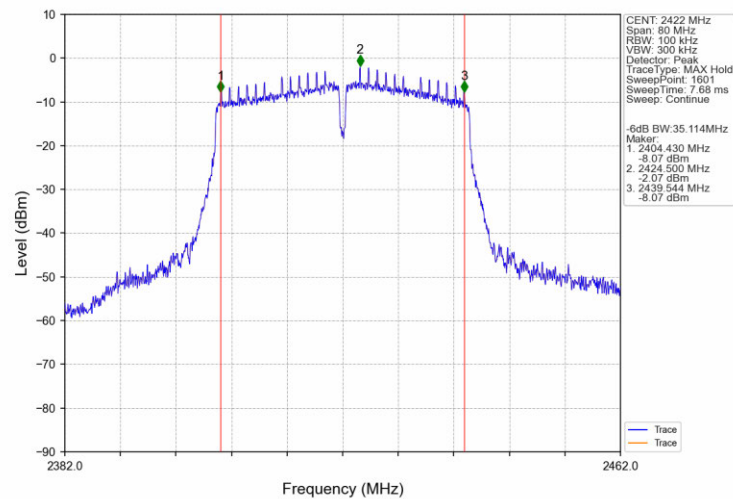
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



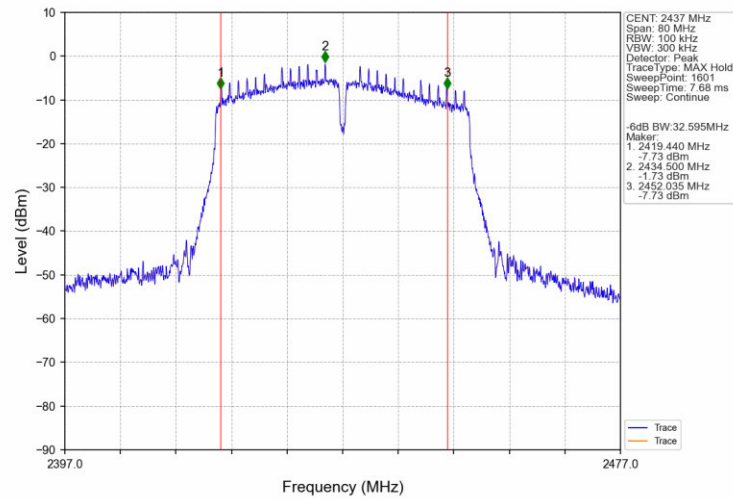
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



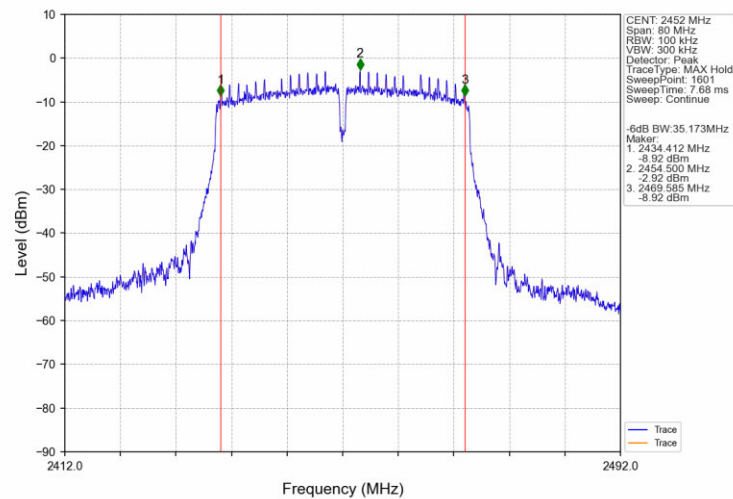
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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 Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.31	<=30	Pass
		2437	13.69	<=30	Pass
		2462	13.74	<=30	Pass
802.11g	SISO	2412	18.01	<=30	Pass
		2437	18.20	<=30	Pass
		2462	18.25	<=30	Pass
802.11n (HT20)	SISO	2412	17.70	<=30	Pass
		2437	17.87	<=30	Pass
		2462	17.92	<=30	Pass
802.11n (HT40)	SISO	2422	18.18	<=30	Pass
		2437	18.18	<=30	Pass
		2452	18.15	<=30	Pass

Note1: Antenna Gain: Ant1: 0.65dBi;

4. Maximum Power Spectral Density

4.1 Test Result

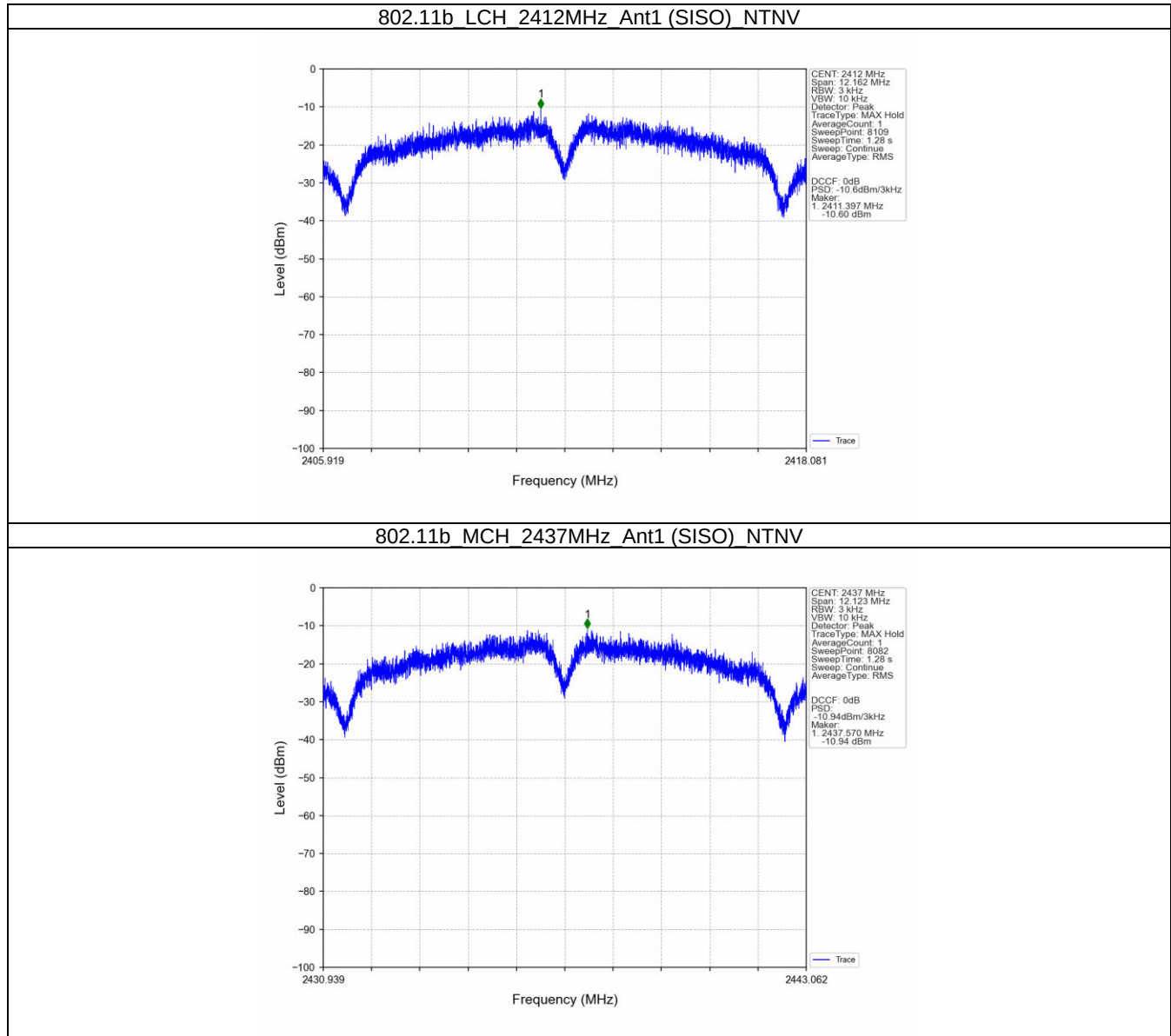
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-10.60	≤ 8	Pass
		2437	-10.94	≤ 8	Pass
		2462	-10.52	≤ 8	Pass
802.11g	SISO	2412	-13.93	≤ 8	Pass
		2437	-13.47	≤ 8	Pass
		2462	-12.71	≤ 8	Pass
802.11n (HT20)	SISO	2412	-14.69	≤ 8	Pass
		2437	-14.28	≤ 8	Pass
		2462	-13.00	≤ 8	Pass
802.11n (HT40)	SISO	2422	-16.30	≤ 8	Pass
		2437	-15.90	≤ 8	Pass
		2452	-17.04	≤ 8	Pass

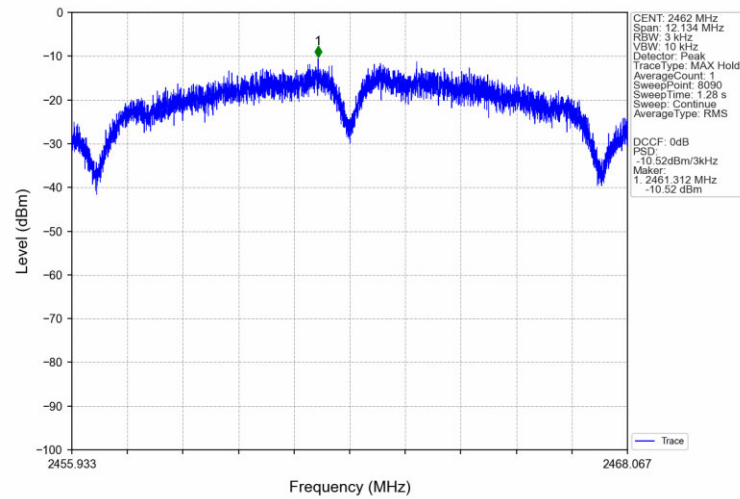
Note1: Antenna Gain: Ant1: 0.65dBi;

4.2 Test Graph

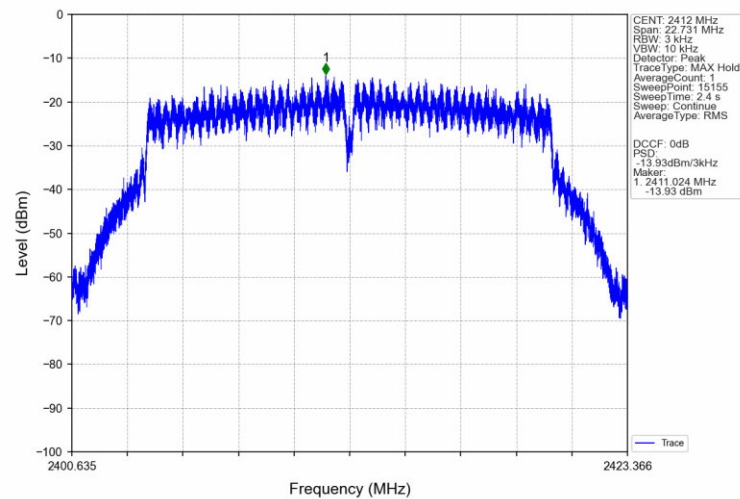
4.2.1 PSD



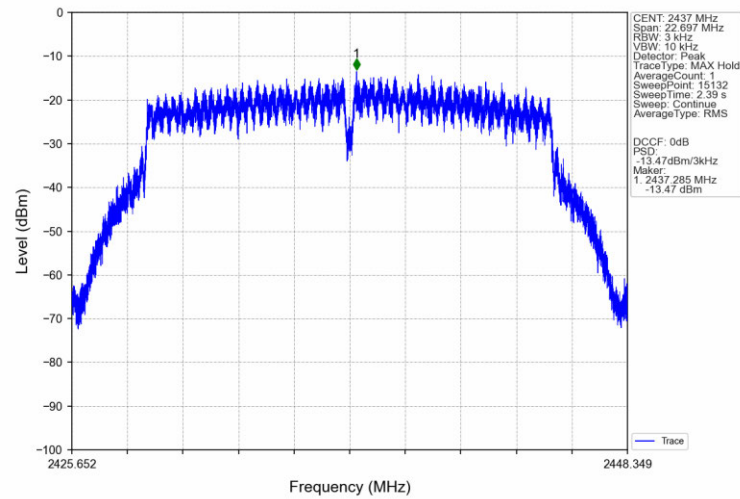
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



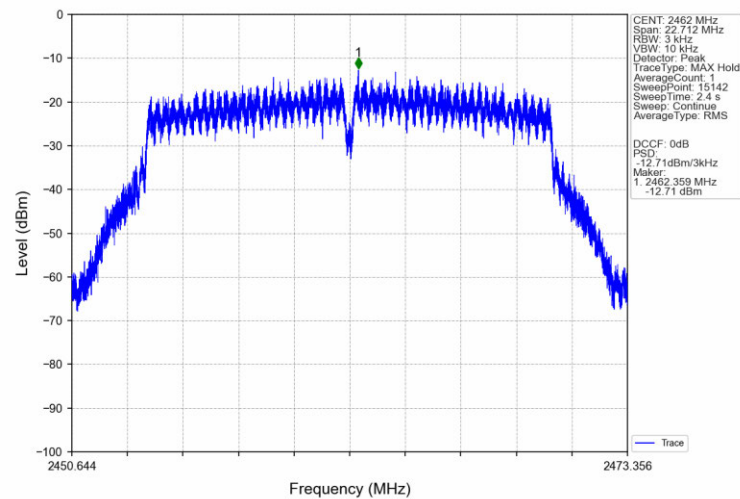
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



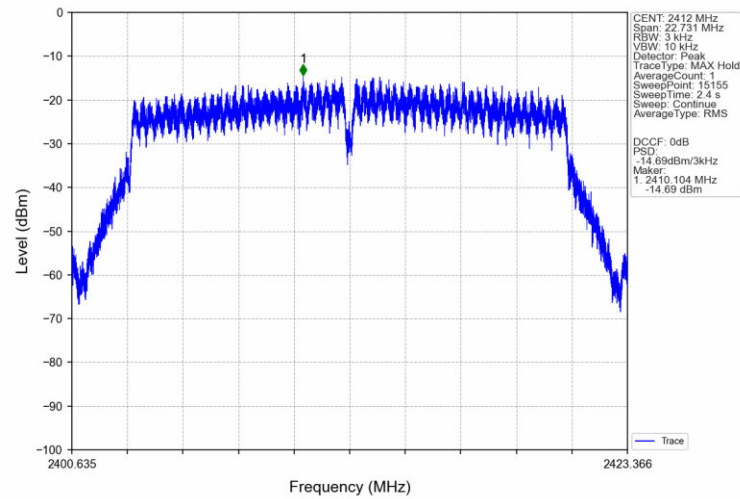
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



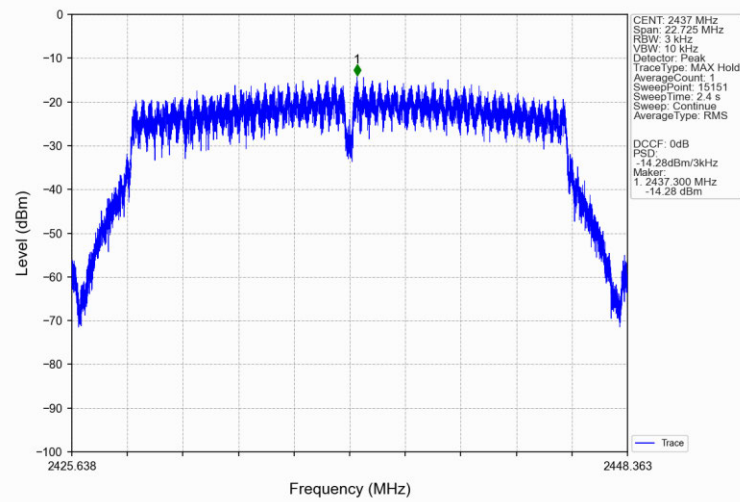
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



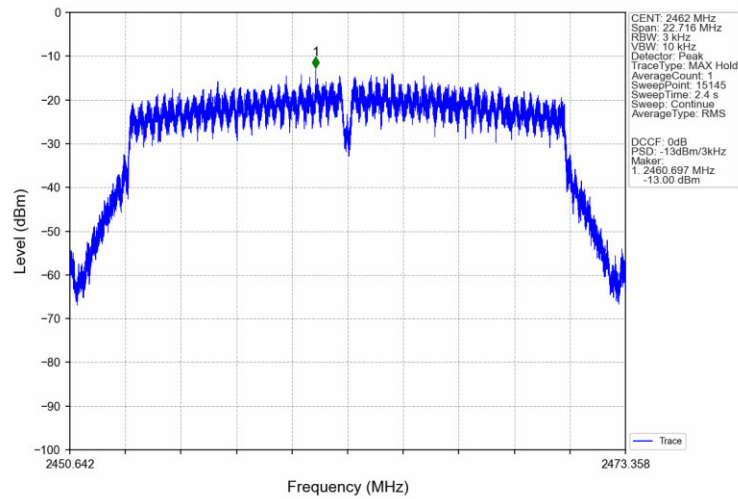
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



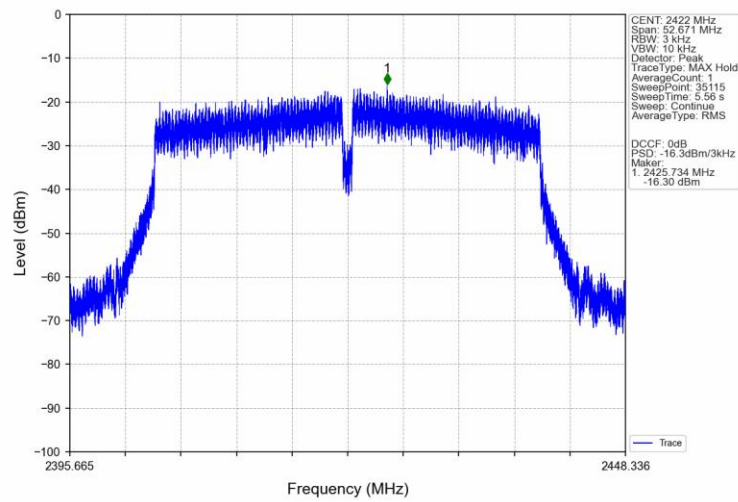
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



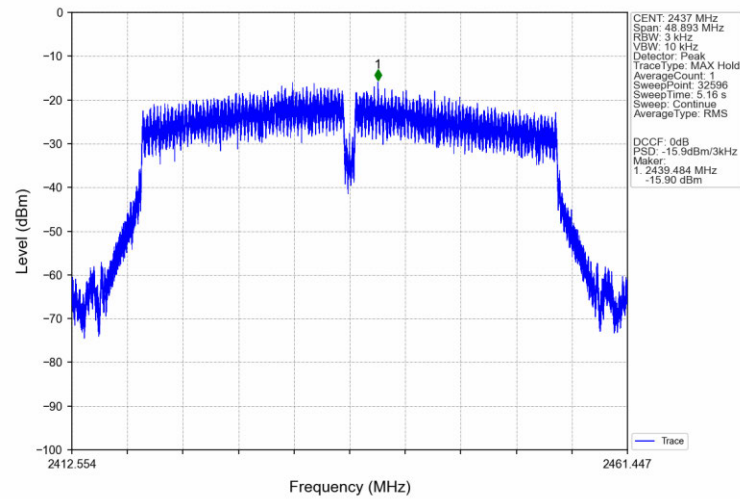
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



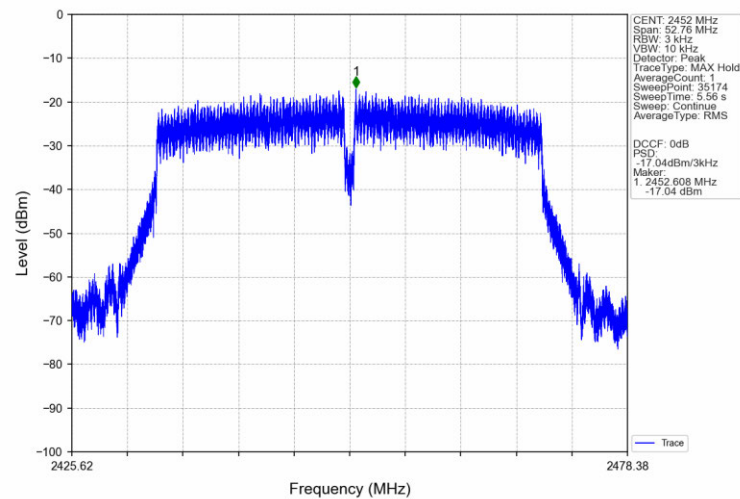
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. 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	2.81
		2437	1	3.42
		2462	1	3.37
802.11g	SISO	2412	1	0.54
		2437	1	0.93
		2462	1	0.47
802.11n (HT20)	SISO	2412	1	0.22
		2437	1	0.58
		2462	1	0.18
802.11n (HT40)	SISO	2422	1	-2.03
		2437	1	-2.04
		2452	1	-3.02

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.

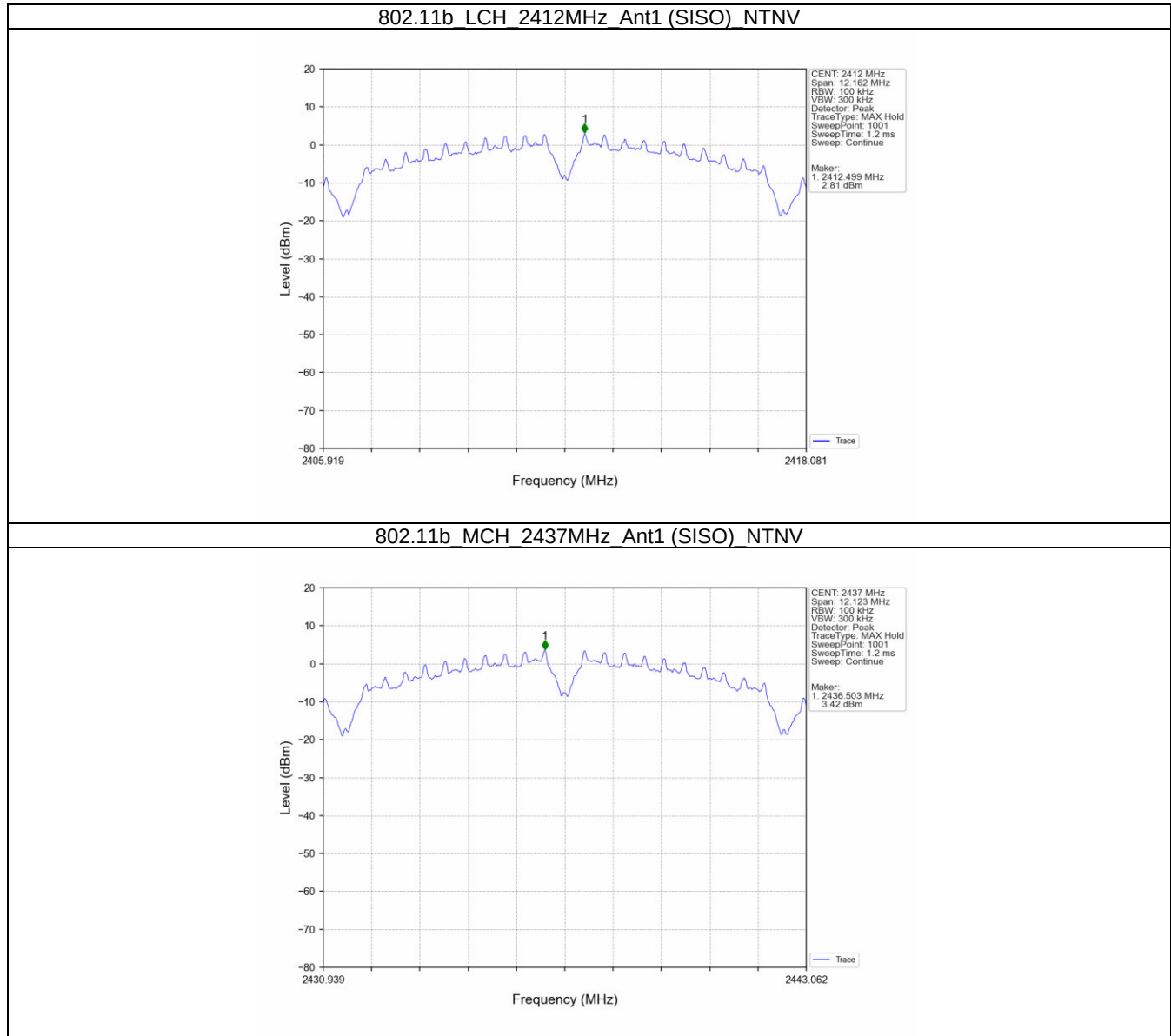
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.81	-17.19	Pass
		2437	1	3.42	-16.58	Pass
		2462	1	3.37	-16.63	Pass
802.11g	SISO	2412	1	0.54	-19.46	Pass
		2437	1	0.93	-19.07	Pass
		2462	1	0.47	-19.53	Pass
802.11n (HT20)	SISO	2412	1	0.22	-19.78	Pass
		2437	1	0.58	-19.42	Pass
		2462	1	0.18	-19.82	Pass
802.11n (HT40)	SISO	2422	1	-2.03	-22.03	Pass
		2437	1	-2.04	-22.04	Pass
		2452	1	-3.02	-23.02	Pass

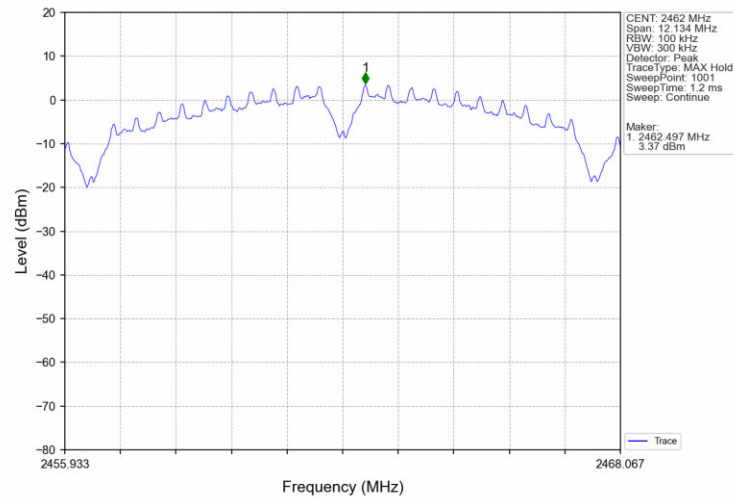
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

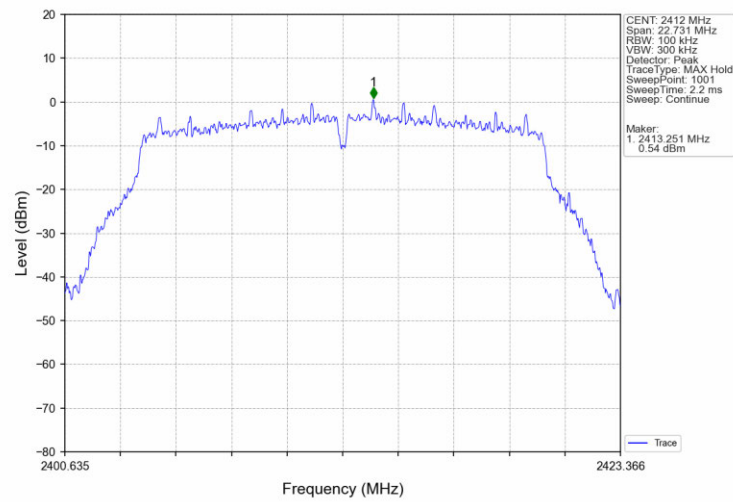
5.2.1 Ref



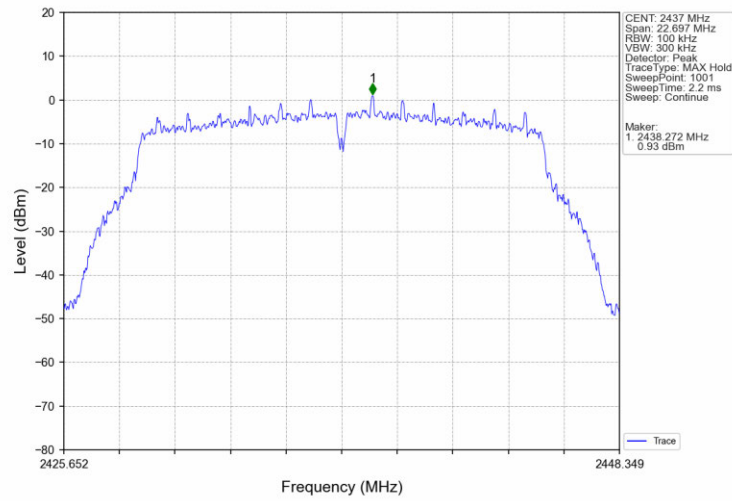
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



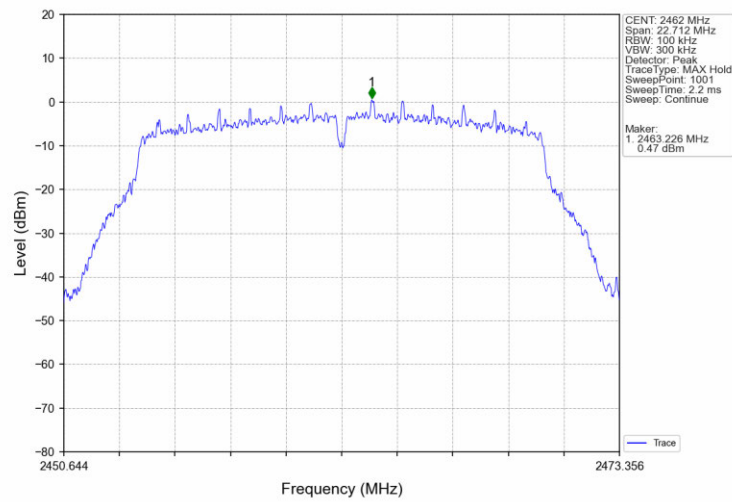
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



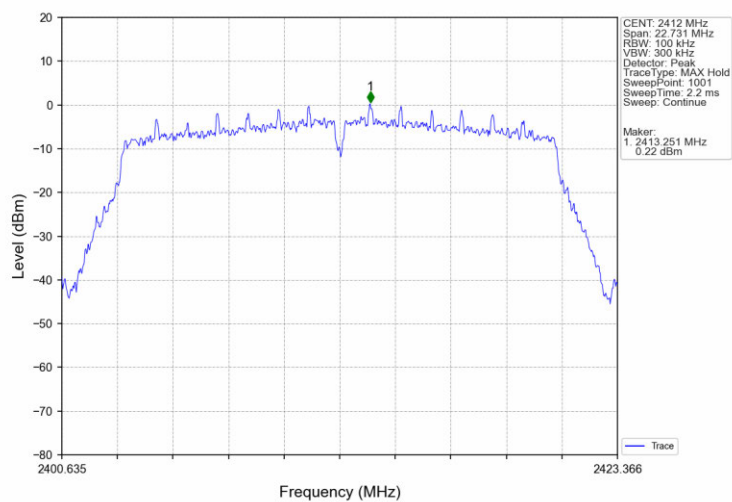
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



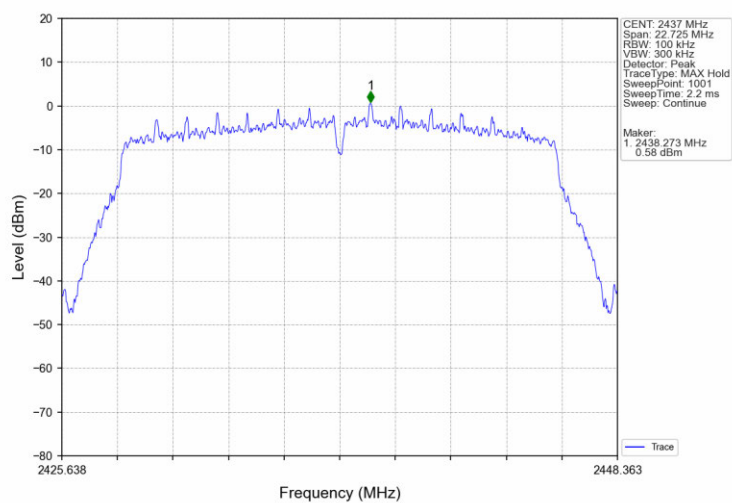
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



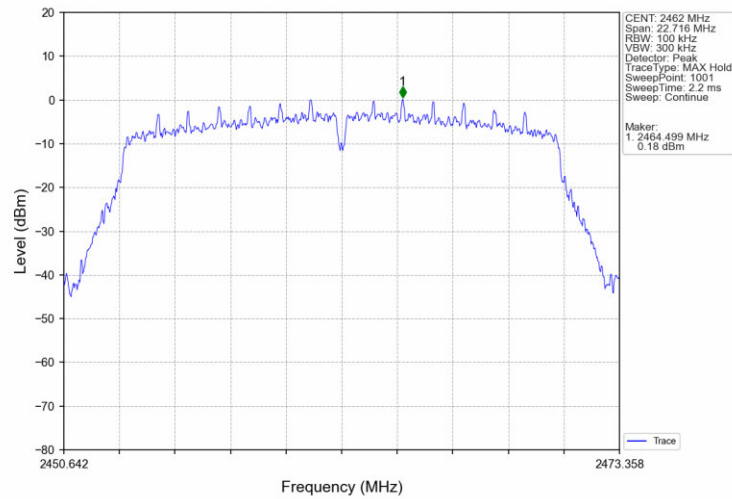
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



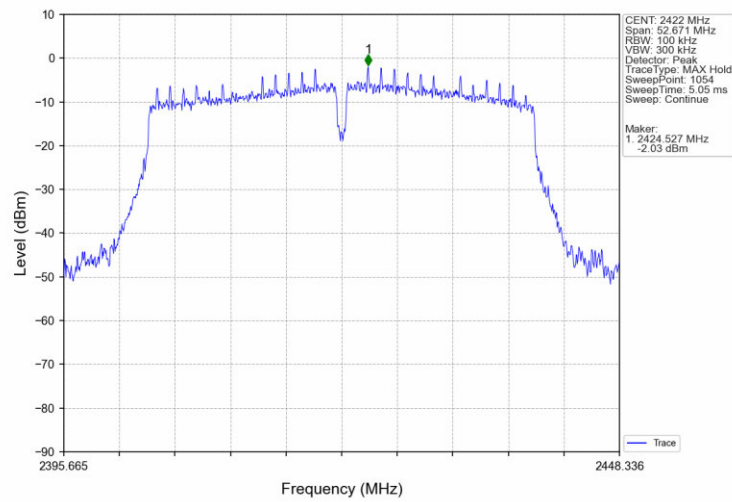
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



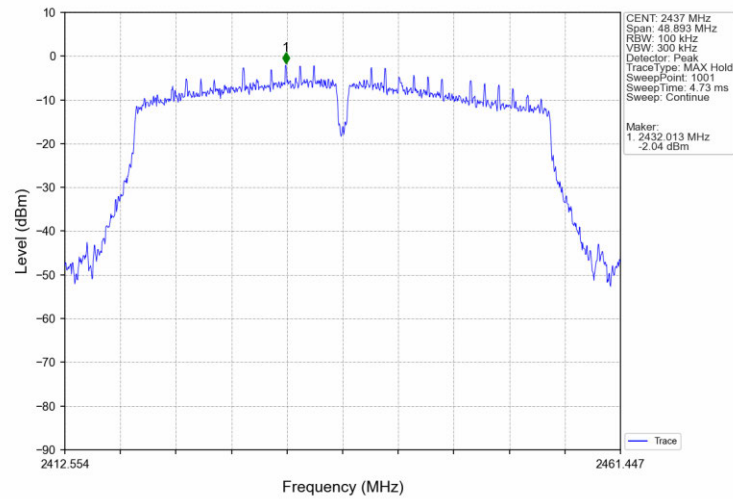
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



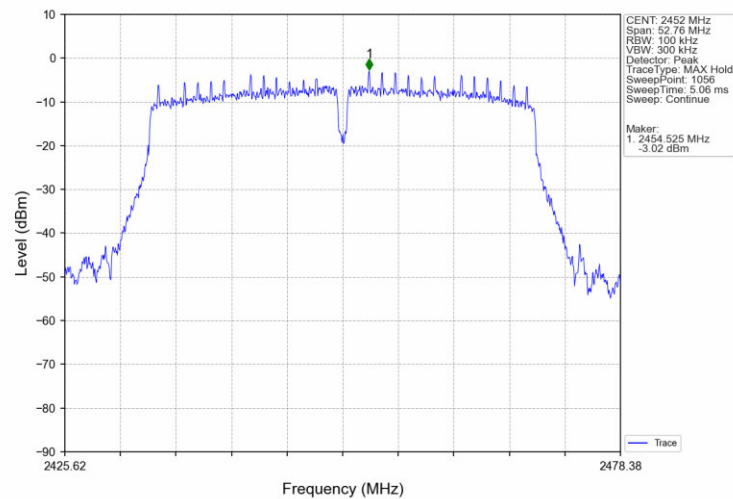
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

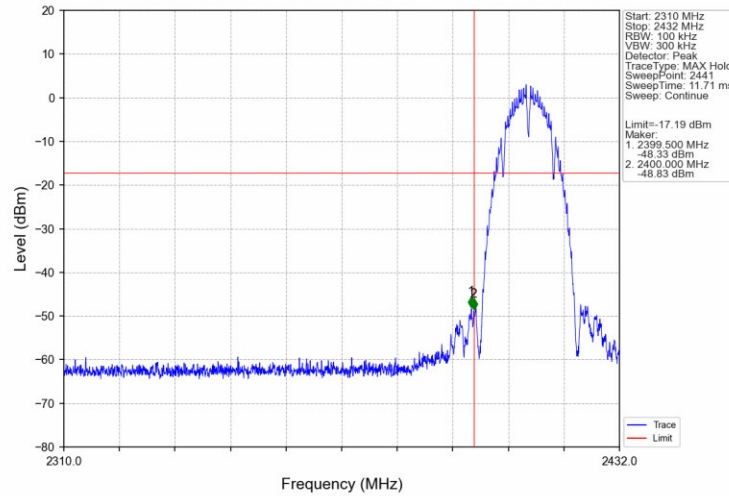


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

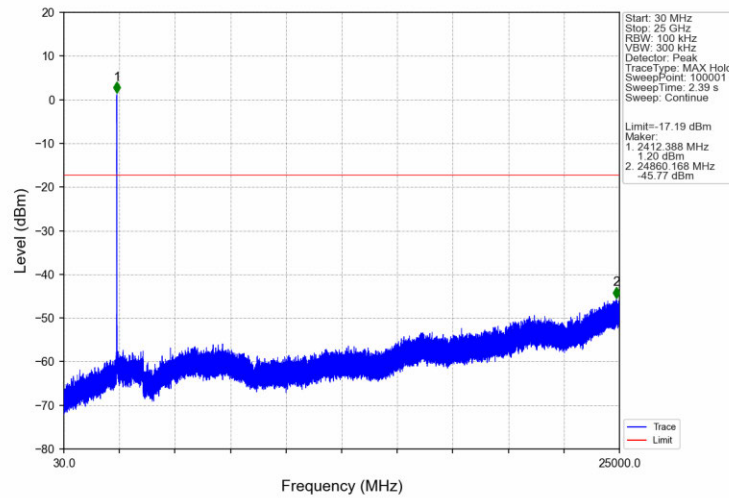


5.2.2 CSE

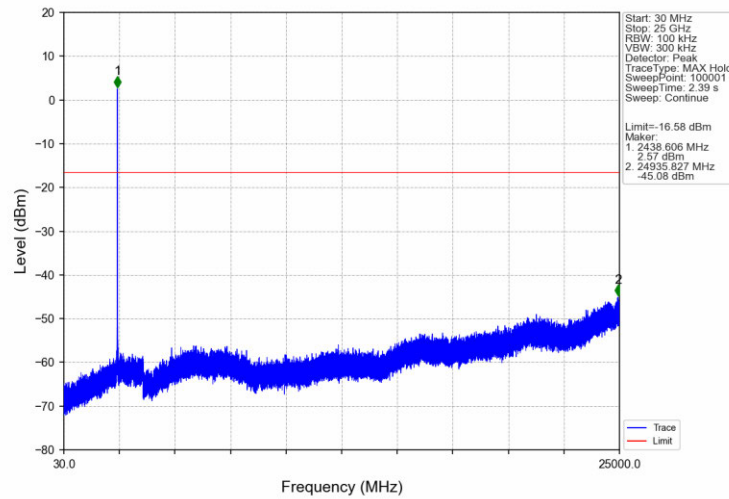
802.11b LCH 2412MHz Ant1 (SISO) NTN



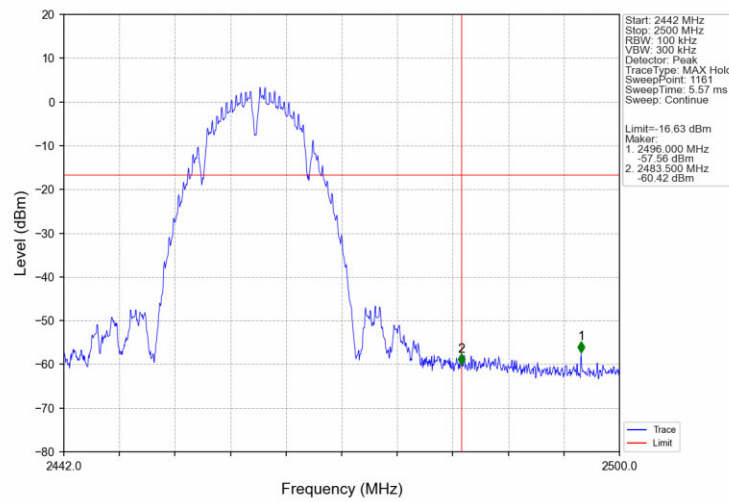
802.11b LCH 2412MHz Ant1 (SISO) NTN



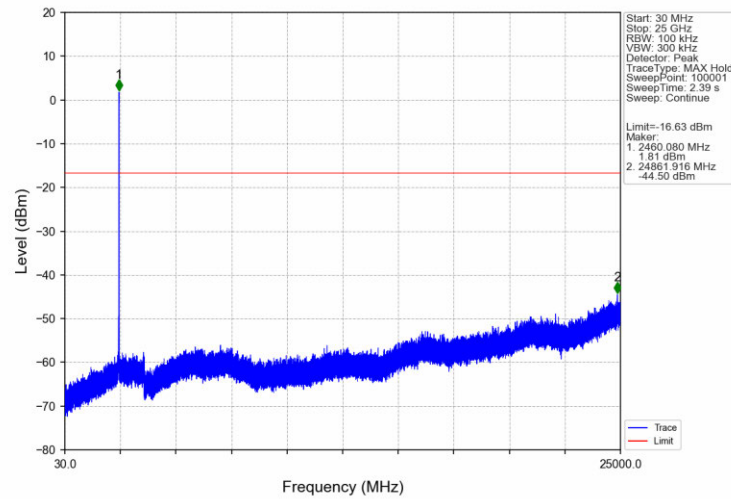
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



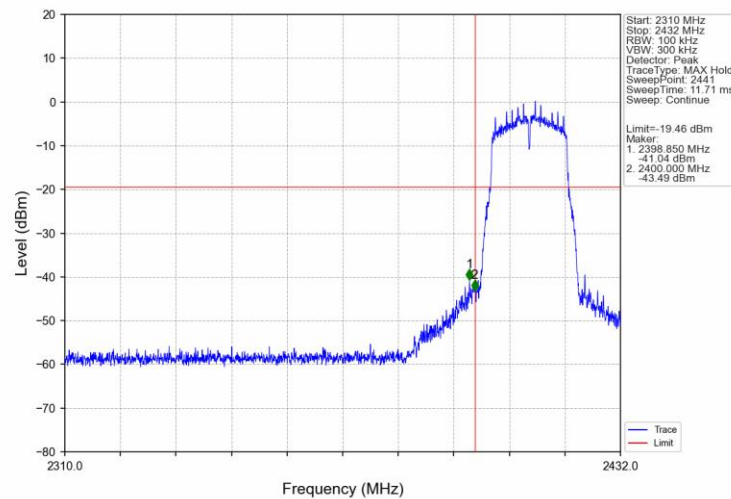
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



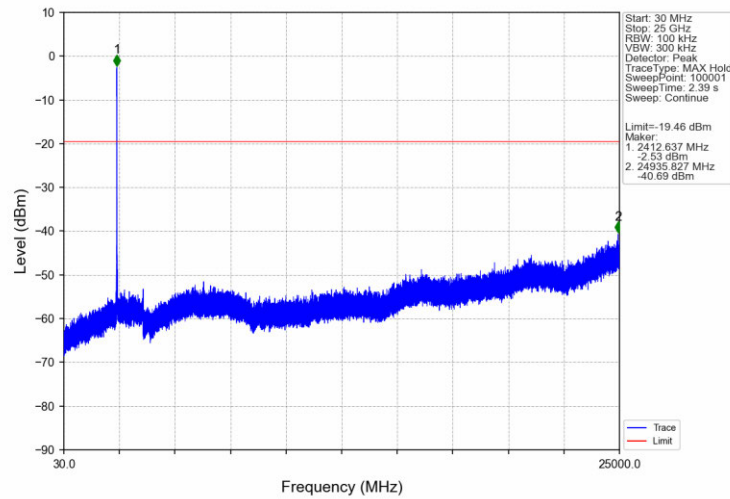
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



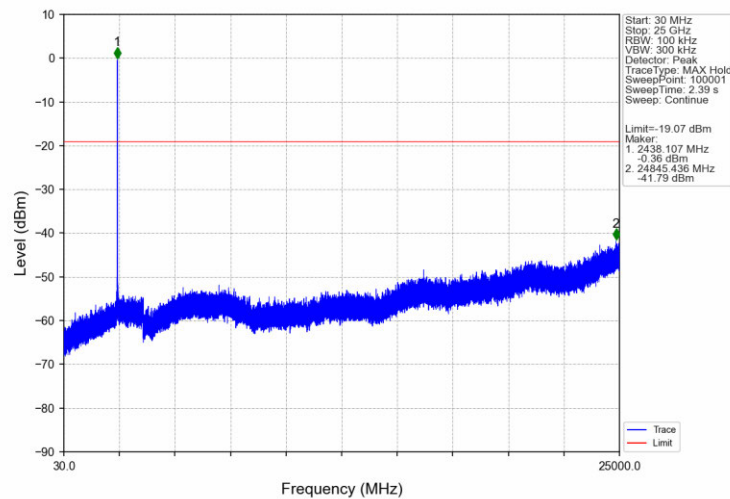
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



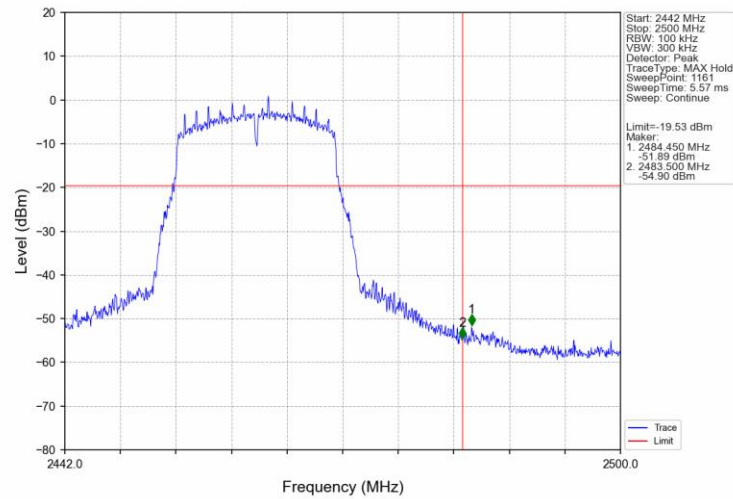
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



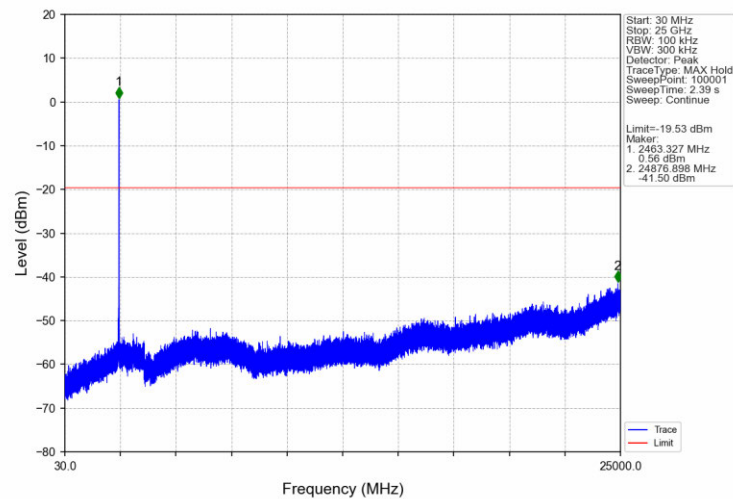
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



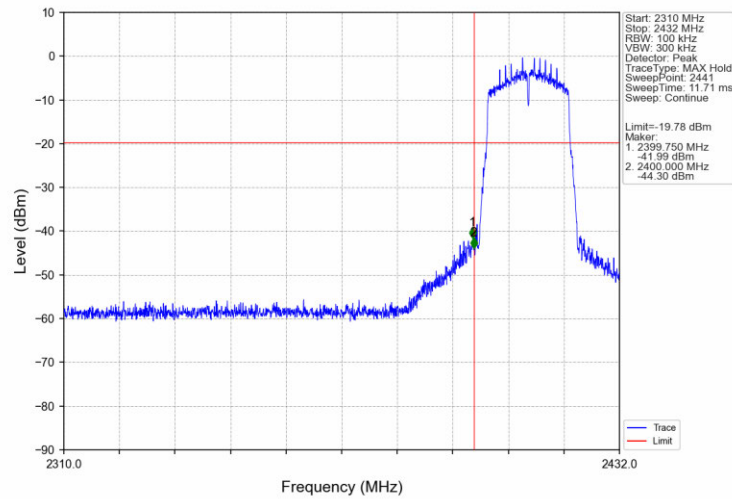
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



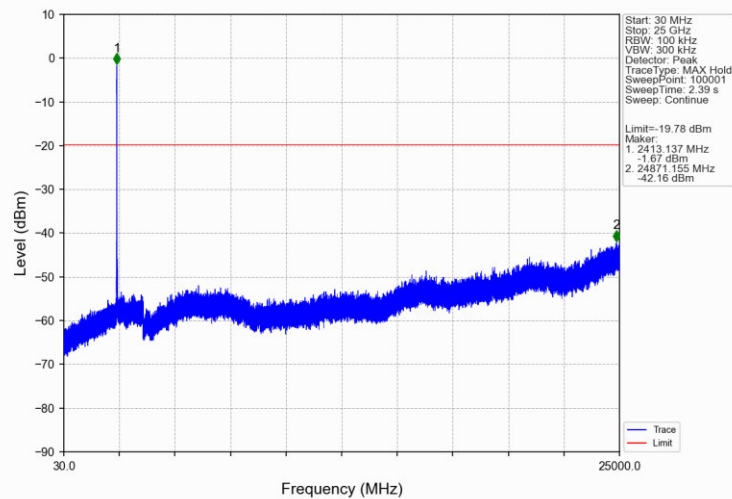
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



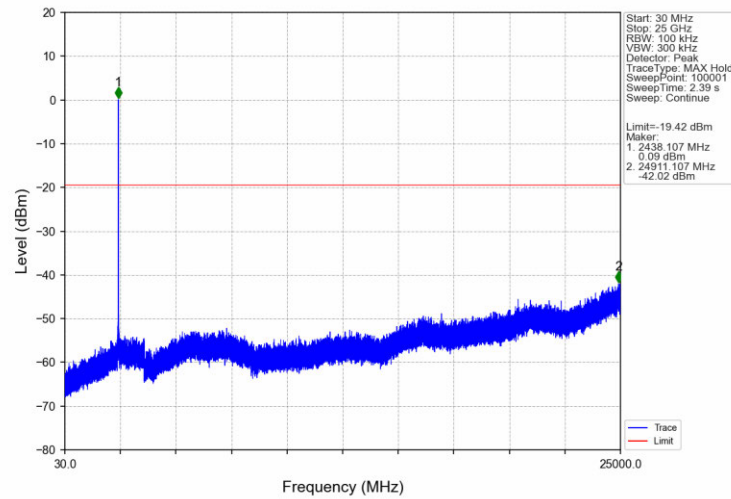
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



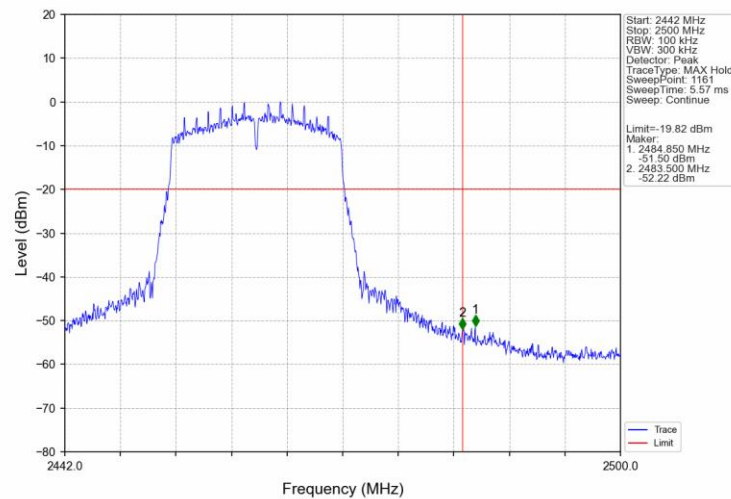
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



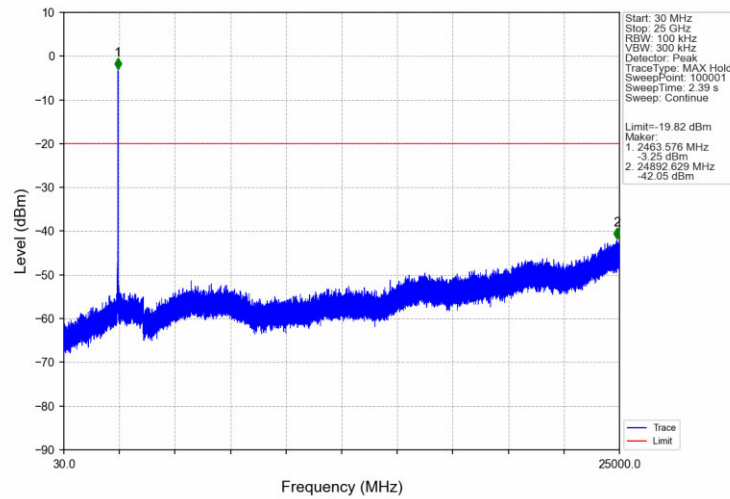
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



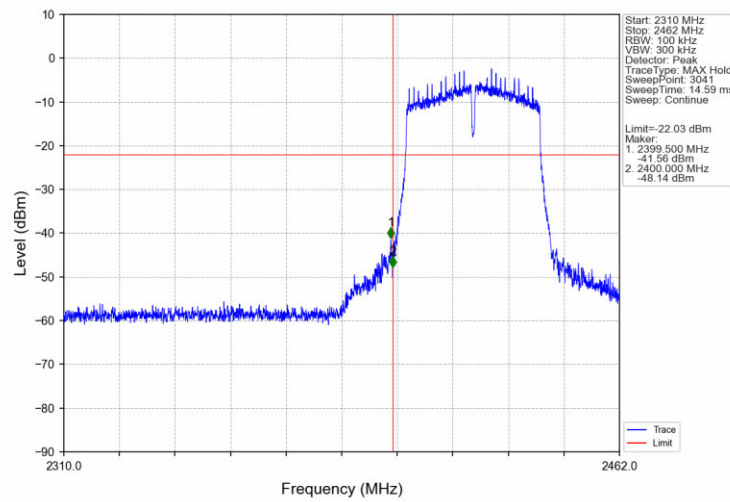
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



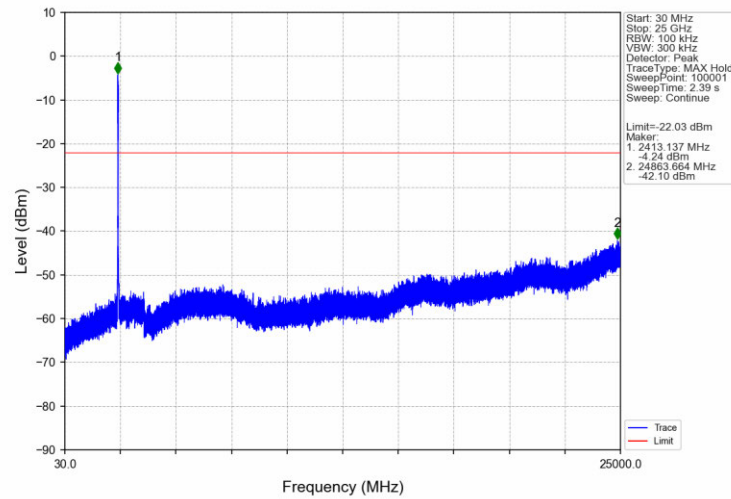
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



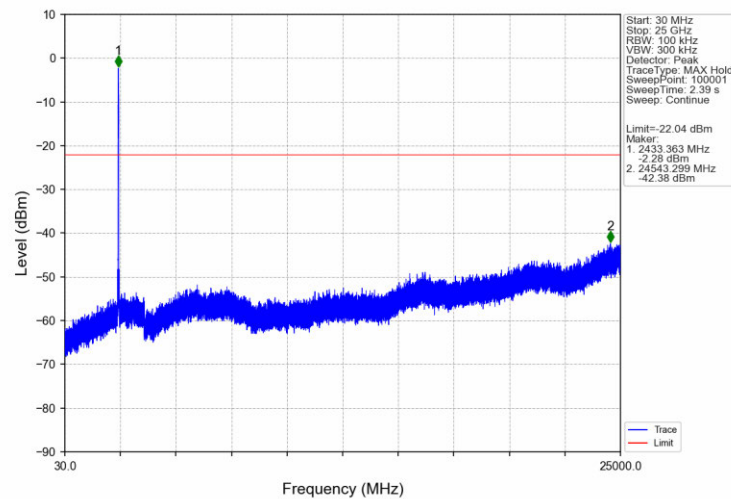
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



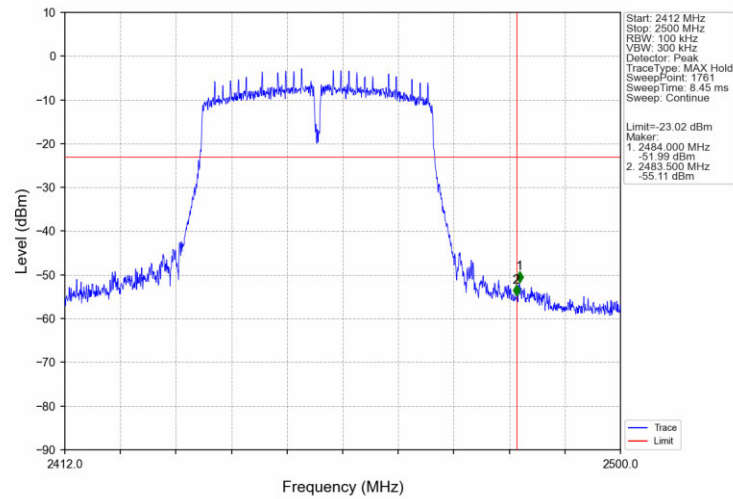
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



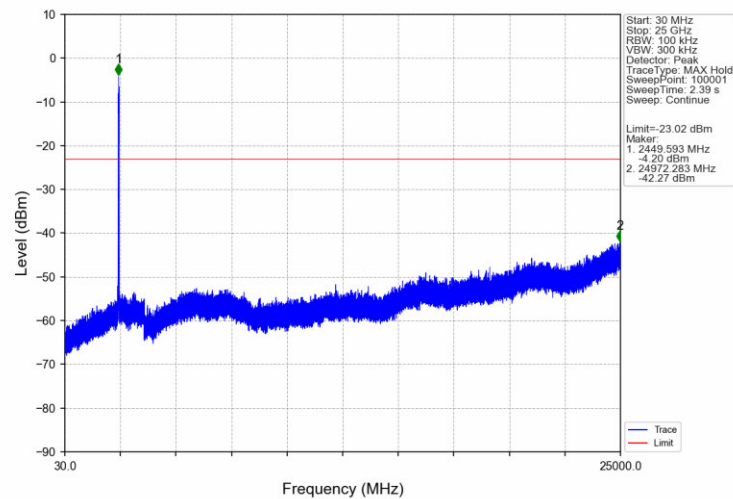
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0668	18.25
2422	2452	0.0658	18.18