

1. Bandwidth

1.1 Test Result

1.1.1 OBW

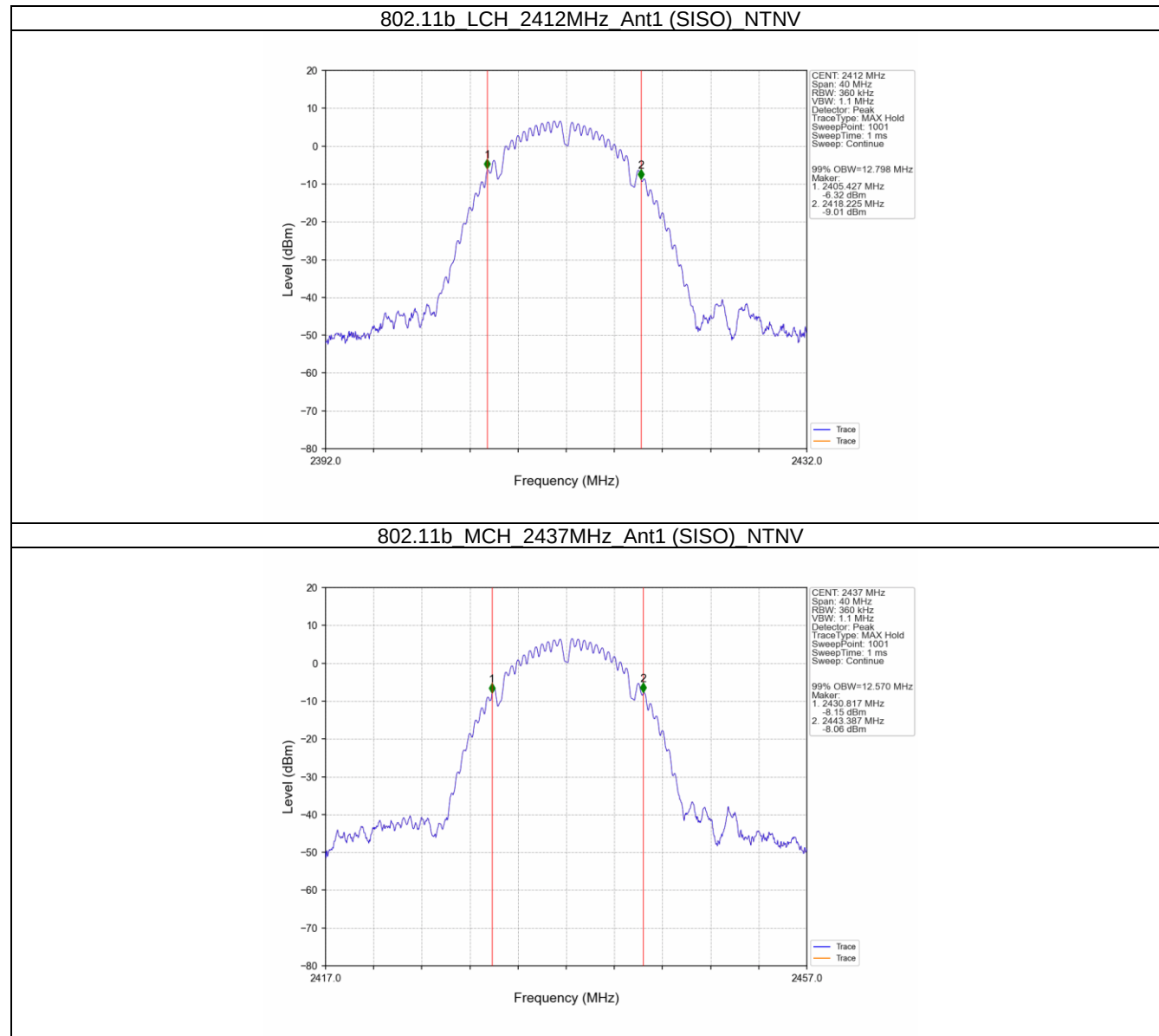
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.798	/	Pass
		2437	1	12.570	/	Pass
		2462	1	13.083	/	Pass
802.11g	SISO	2412	1	17.435	/	Pass
		2437	1	17.462	/	Pass
		2462	1	17.950	/	Pass
802.11n (HT20)	SISO	2412	1	18.161	/	Pass
		2437	1	18.269	/	Pass
		2462	1	18.635	/	Pass
802.11n (HT40)	SISO	2422	1	37.023	/	Pass
		2437	1	36.867	/	Pass
		2452	1	36.808	/	Pass

1.1.2 6dB BW

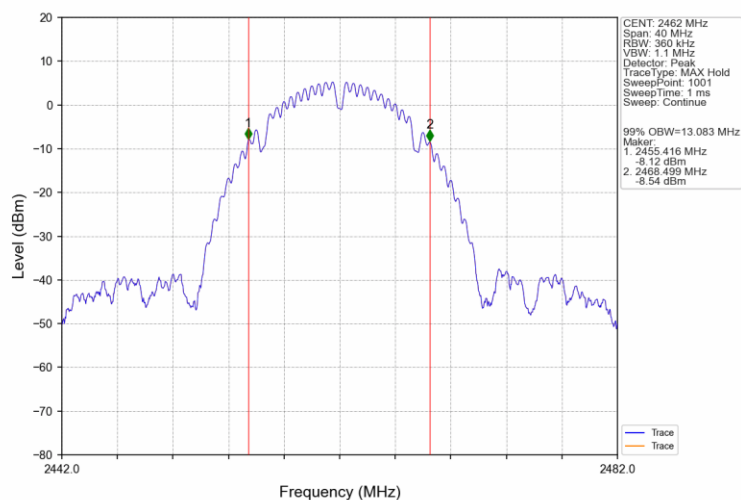
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.105	≥ 0.5	Pass
		2437	1	8.558	≥ 0.5	Pass
		2462	1	8.081	≥ 0.5	Pass
802.11g	SISO	2412	1	16.388	≥ 0.5	Pass
		2437	1	16.353	≥ 0.5	Pass
		2462	1	16.381	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.614	≥ 0.5	Pass
		2437	1	17.601	≥ 0.5	Pass
		2462	1	17.644	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.449	≥ 0.5	Pass
		2437	1	36.000	≥ 0.5	Pass
		2452	1	34.133	≥ 0.5	Pass

1.2 Test Graph

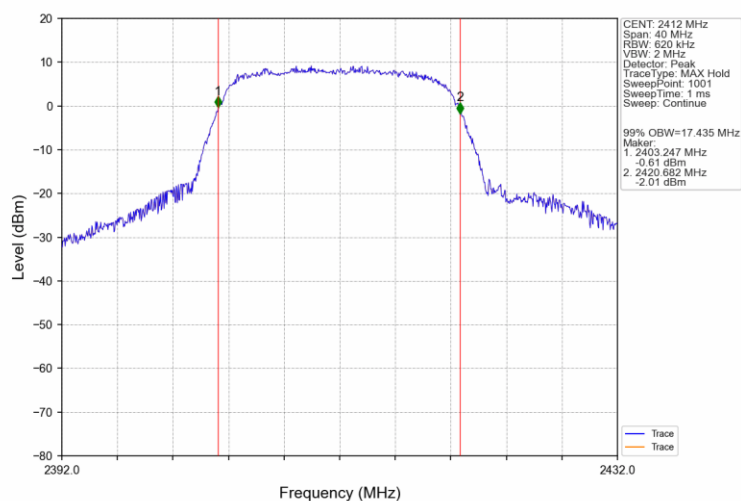
1.2.1 OBW



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

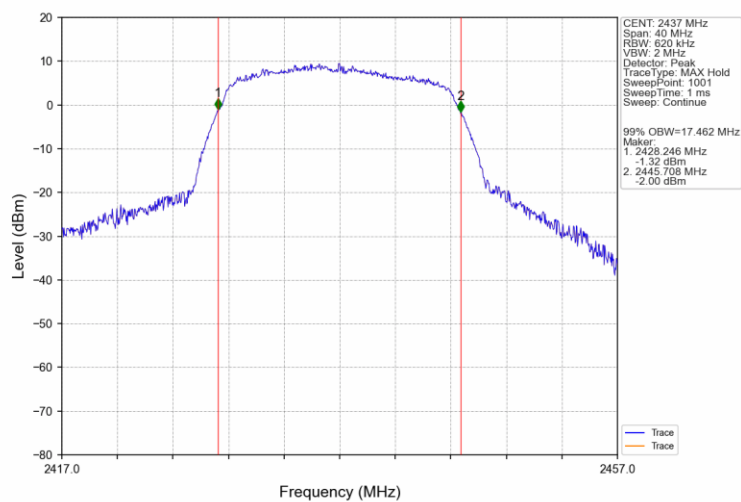


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

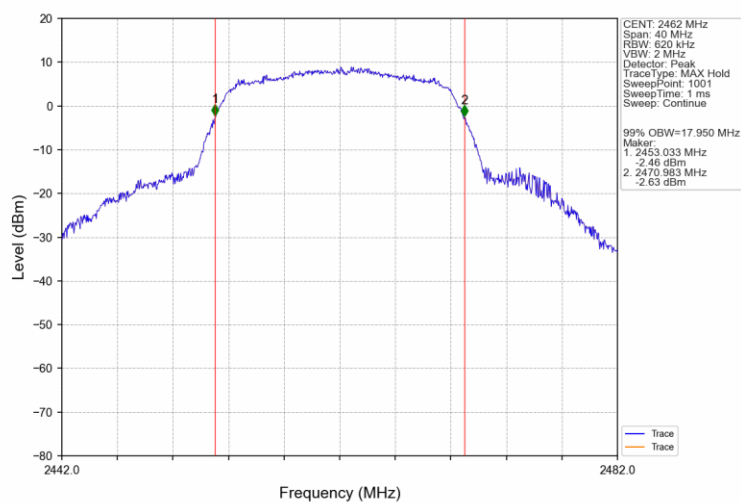




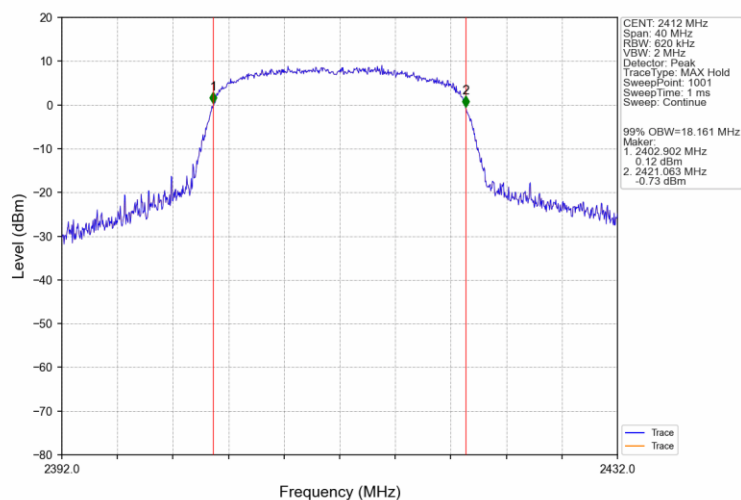
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



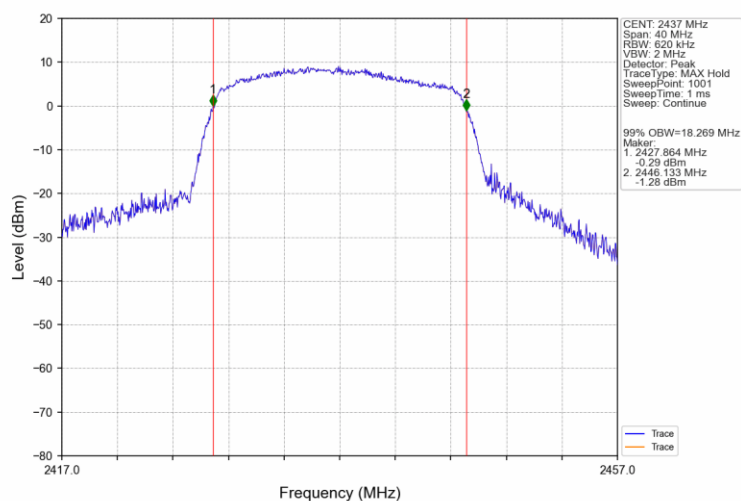
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



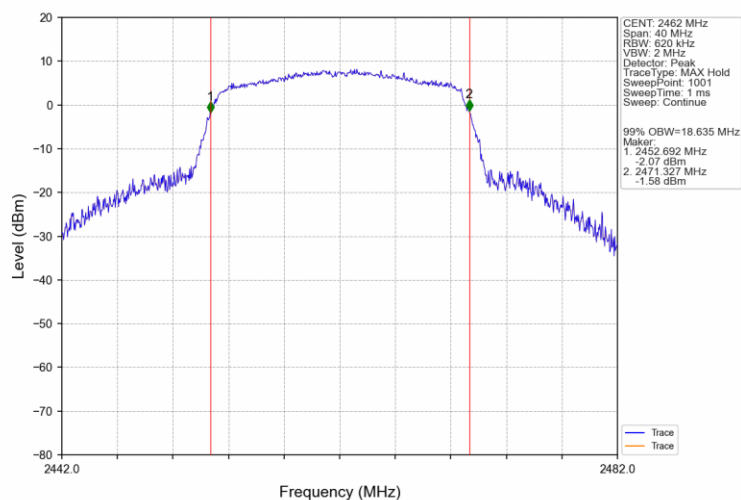
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



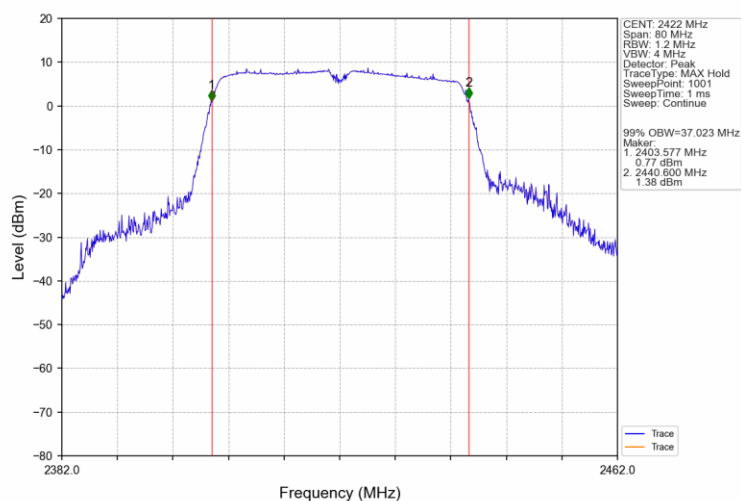
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



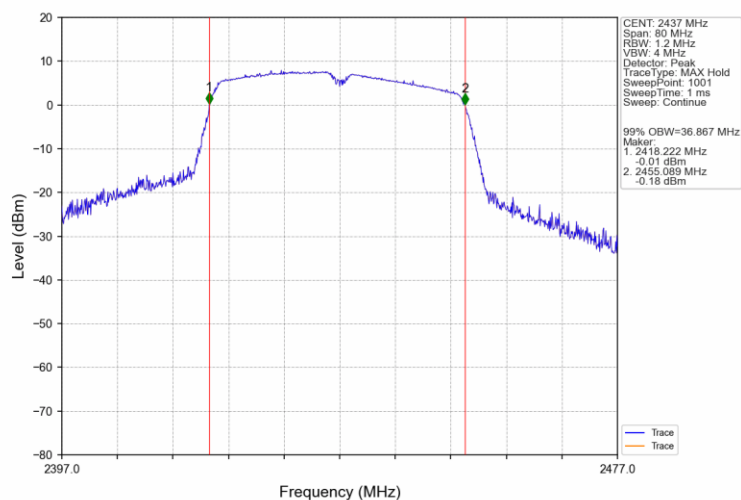
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



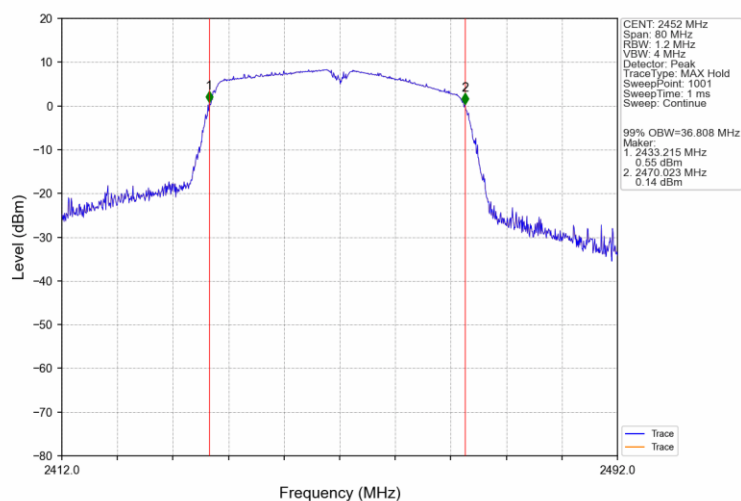
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

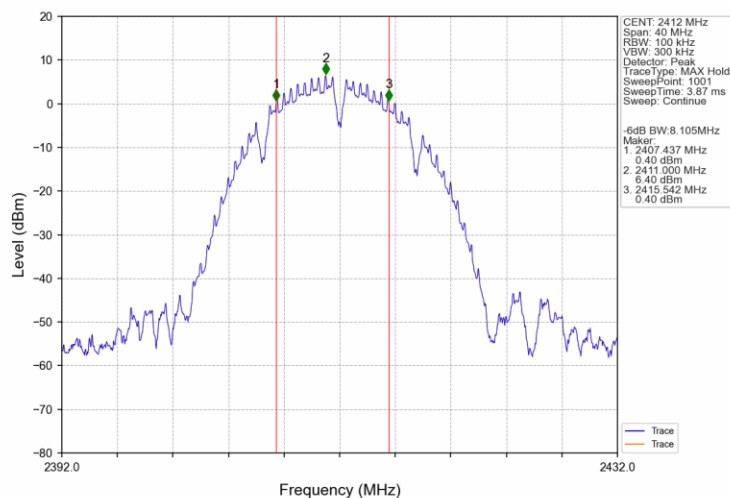


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

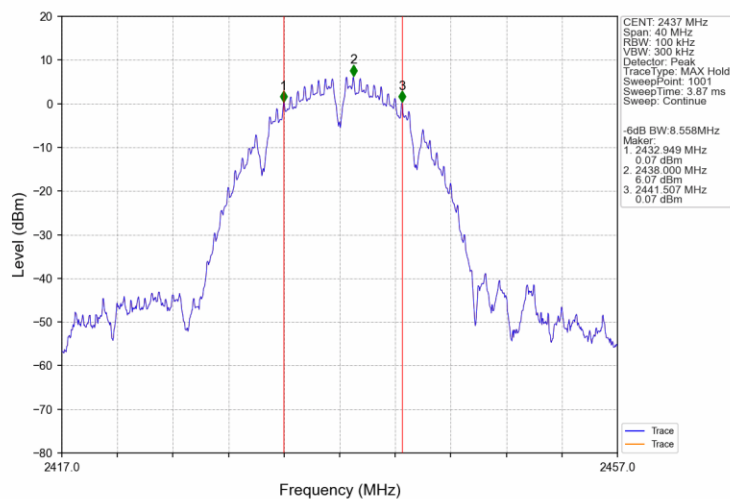


1.2.2 6dB BW

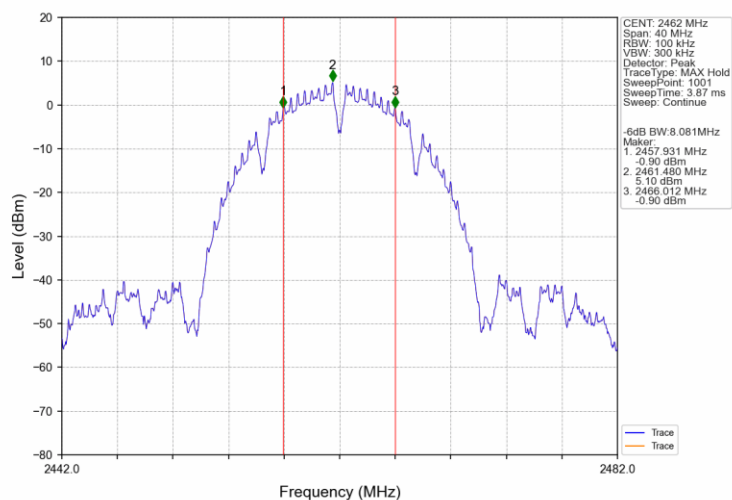
802.11b LCH 2412MHz Ant1 (SISO) NTN



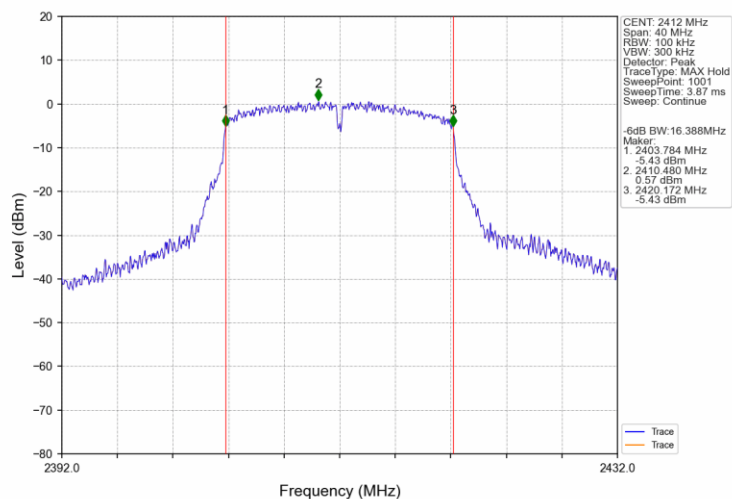
802.11b MCH 2437MHz Ant1 (SISO) NTN



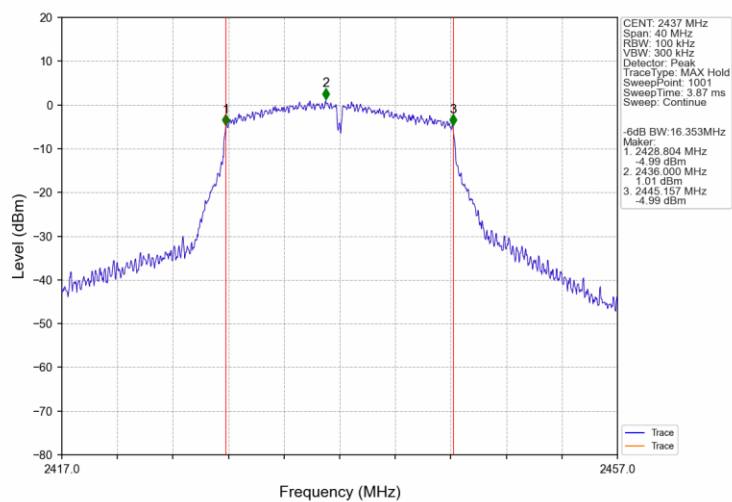
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



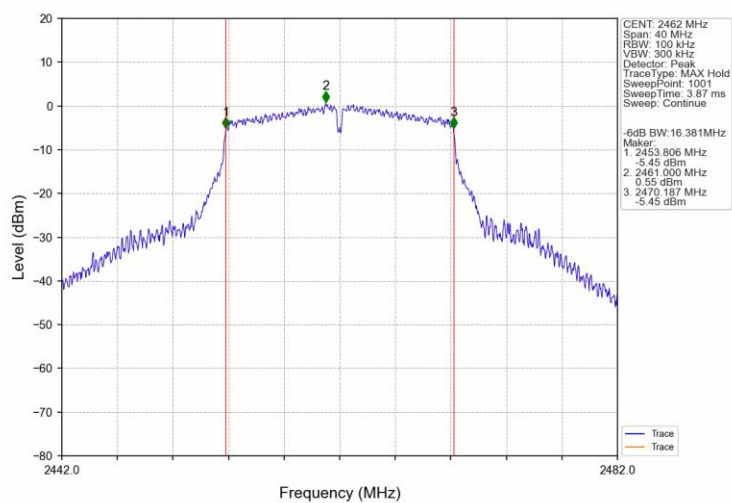
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



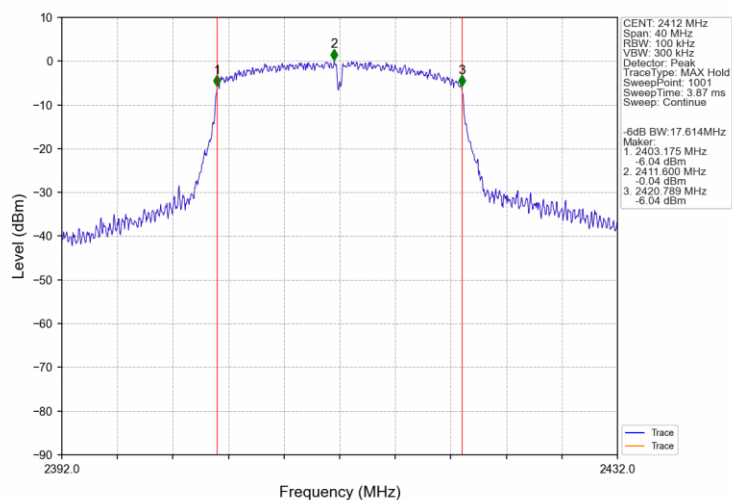
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



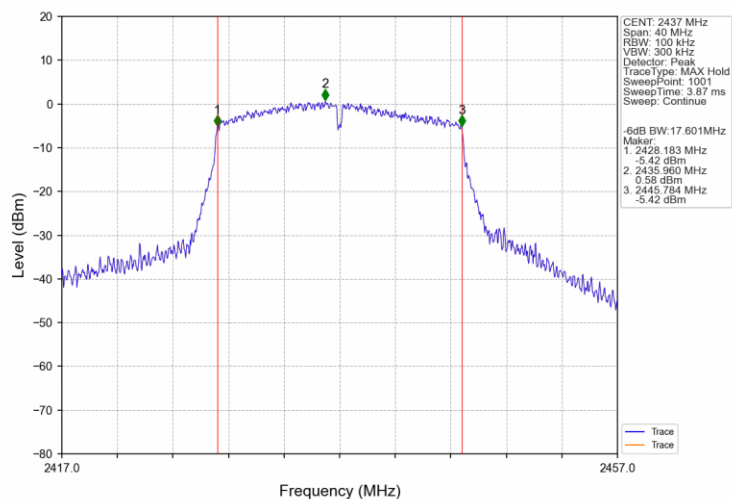
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



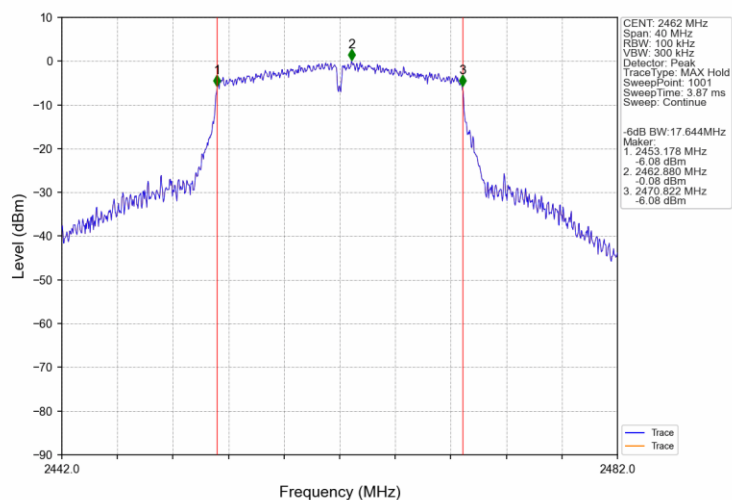
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



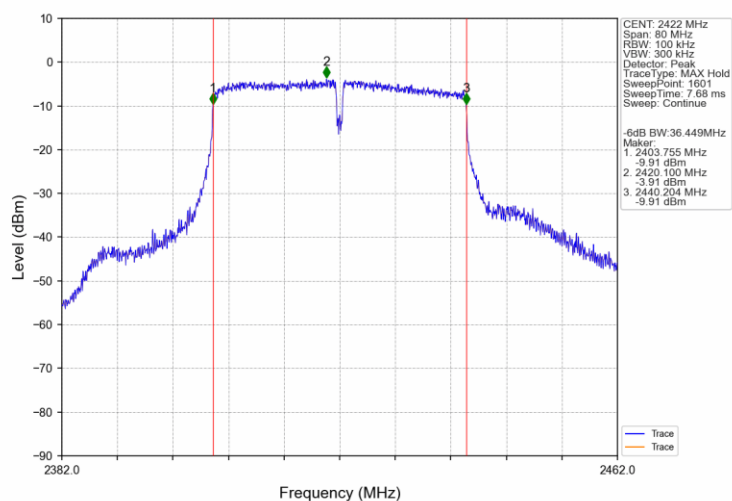
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



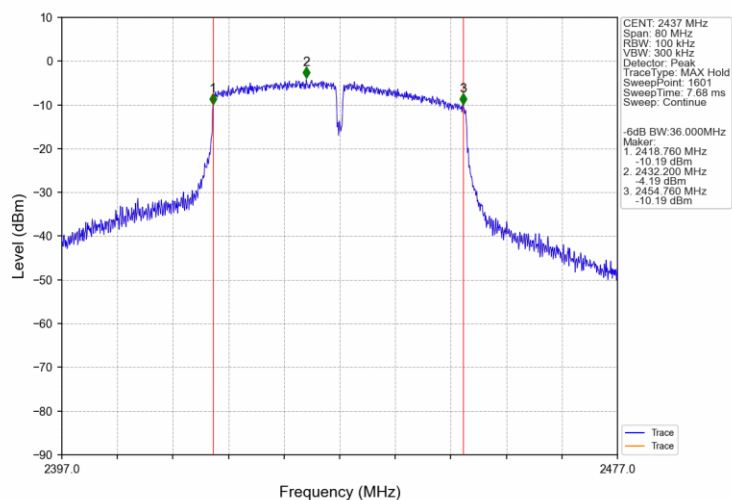
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



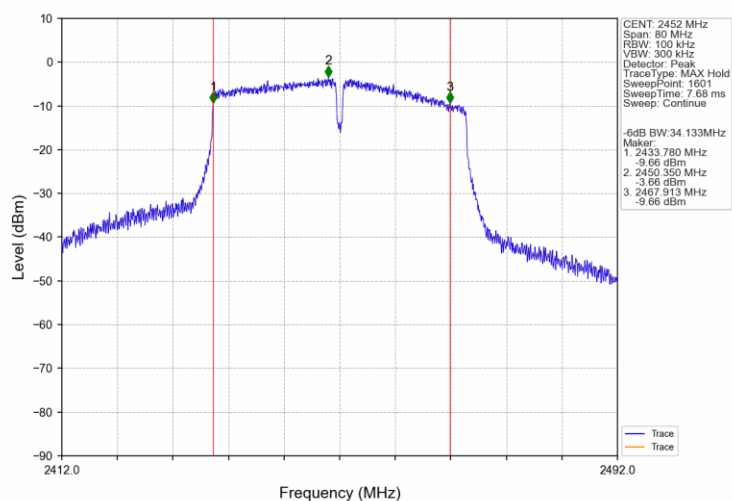
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.56	<=30	Pass
		2437	16.61	<=30	Pass
		2462	15.35	<=30	Pass
802.11g	SISO	2412	21.47	<=30	Pass
		2437	21.18	<=30	Pass
		2462	20.65	<=30	Pass
802.11n (HT20)	SISO	2412	21.19	<=30	Pass
		2437	21.02	<=30	Pass
		2462	20.59	<=30	Pass
802.11n (HT40)	SISO	2422	20.62	<=30	Pass
		2437	19.44	<=30	Pass
		2452	19.81	<=30	Pass

Note1: Antenna Gain: Ant1: 1.96dBi;

2.1.2 EIRP

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	18.52	<=36.02	Pass
		2437	18.57	<=36.02	Pass
		2462	17.31	<=36.02	Pass
802.11g	SISO	2412	23.43	<=36.02	Pass
		2437	23.14	<=36.02	Pass
		2462	22.61	<=36.02	Pass
802.11n (HT20)	SISO	2412	23.15	<=36.02	Pass
		2437	22.98	<=36.02	Pass
		2462	22.55	<=36.02	Pass
802.11n (HT40)	SISO	2422	22.58	<=36.02	Pass
		2437	21.40	<=36.02	Pass
		2452	21.77	<=36.02	Pass

Note1: Antenna Gain: Ant1: 1.96dBi;
Note2: E.I.R.P = Measured Power + Antenna Gain



3. Maximum Power Spectral Density

3.1 Test Result

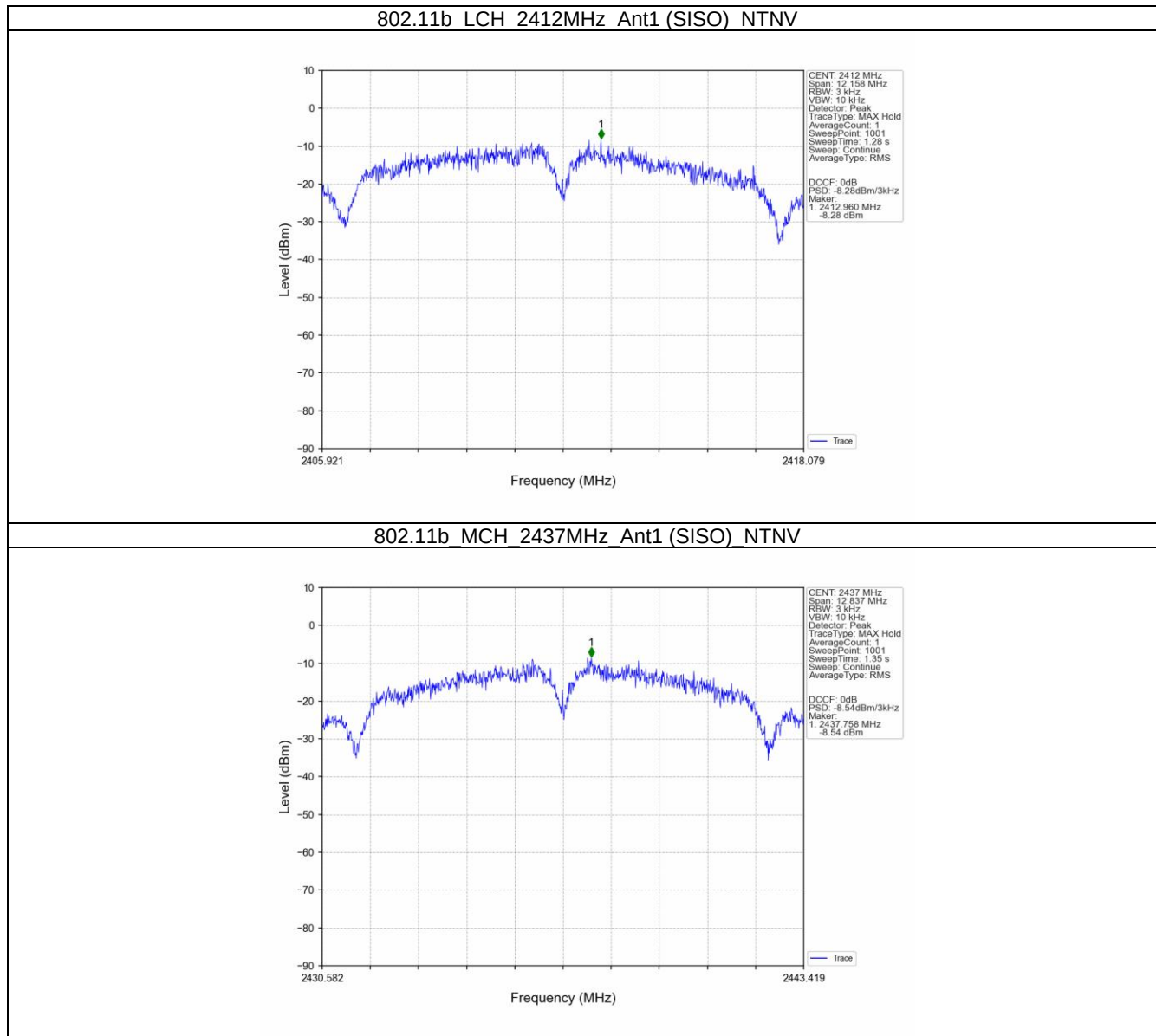
3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.28	<=8	Pass
		2437	-8.54	<=8	Pass
		2462	-10.38	<=8	Pass
802.11g	SISO	2412	-11.34	<=8	Pass
		2437	-11.58	<=8	Pass
		2462	-10.61	<=8	Pass
802.11n (HT20)	SISO	2412	-12.14	<=8	Pass
		2437	-12.06	<=8	Pass
		2462	-12.95	<=8	Pass
802.11n (HT40)	SISO	2422	-14.90	<=8	Pass
		2437	-16.21	<=8	Pass
		2452	-14.88	<=8	Pass

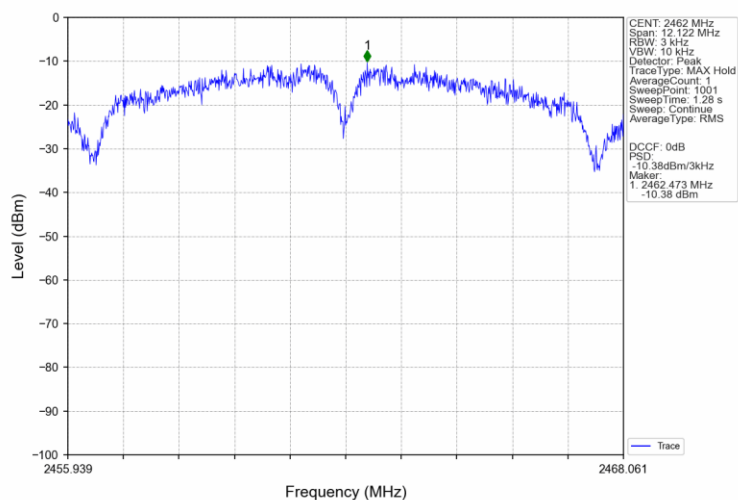
Note1: Antenna Gain: Ant1: 1.96dBi;

3.2 Test Graph

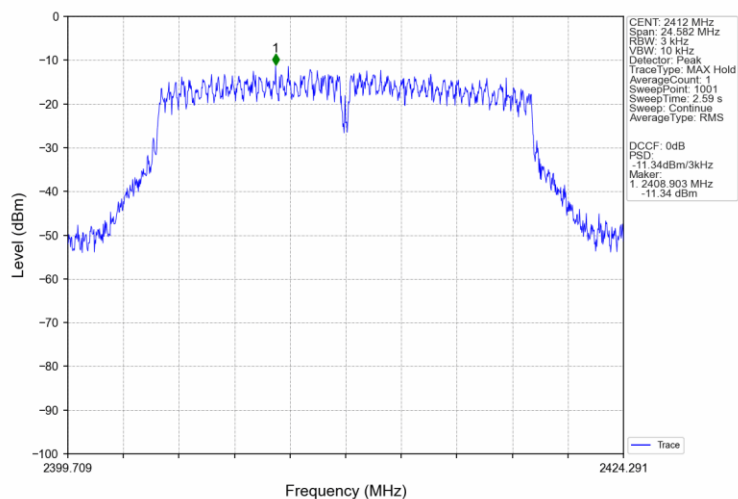
3.2.1 PSD



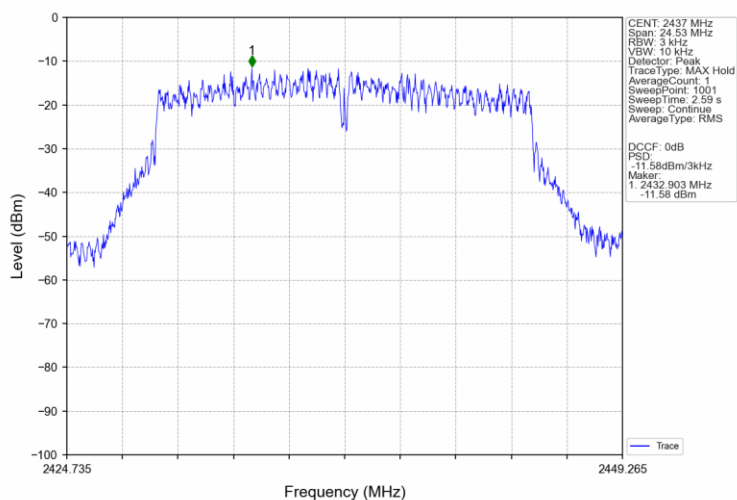
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



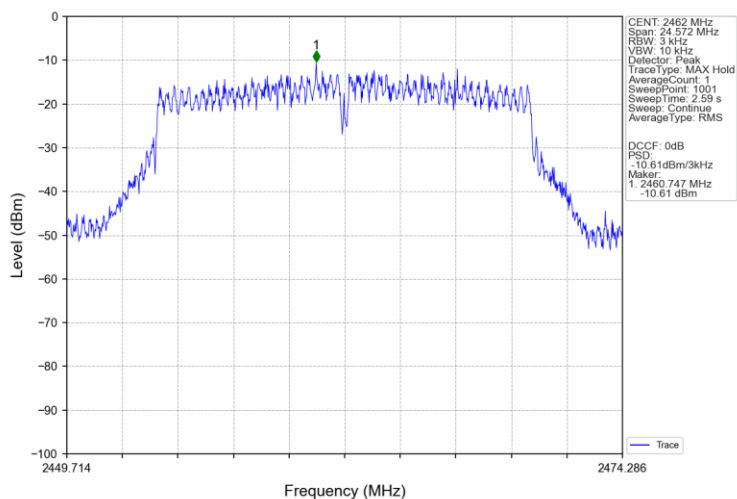
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



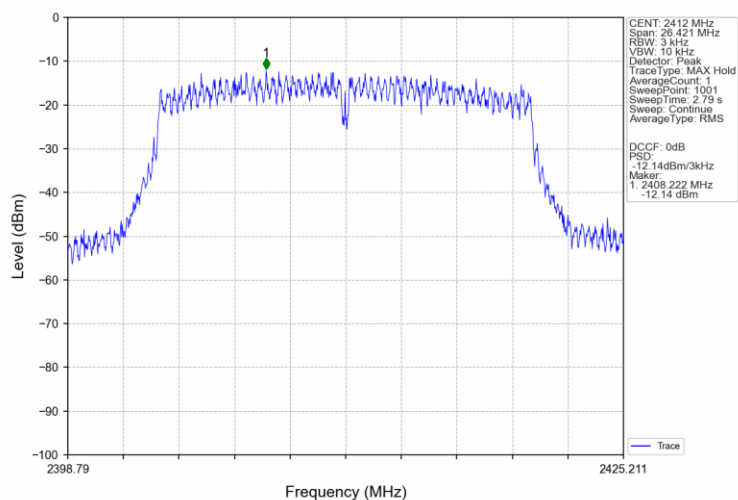
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



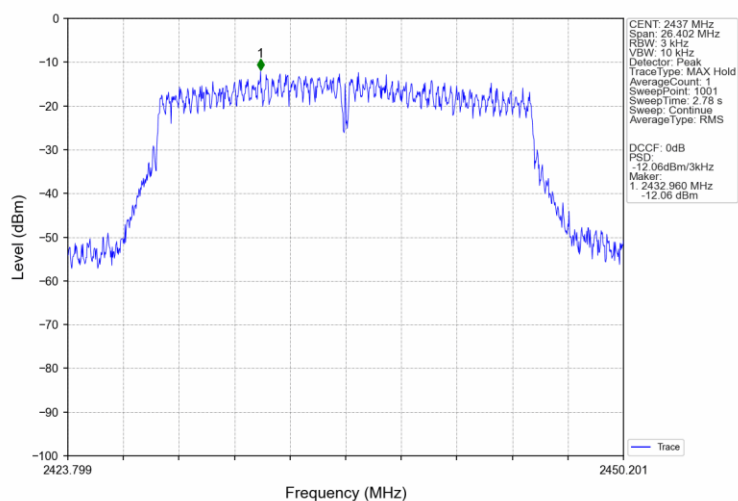
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



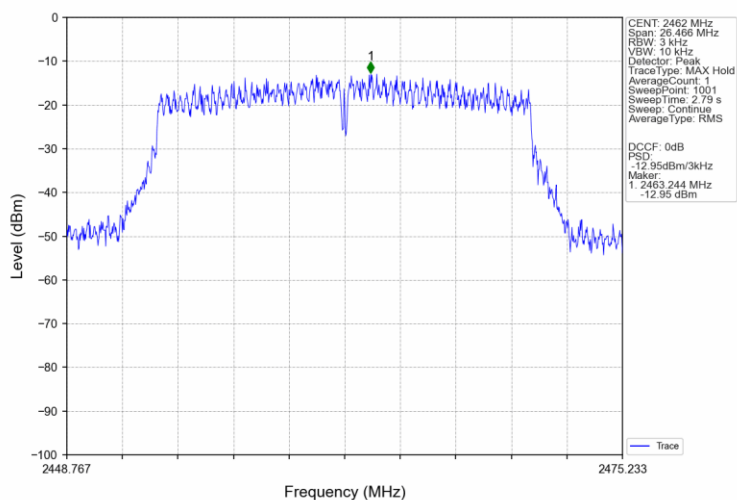
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



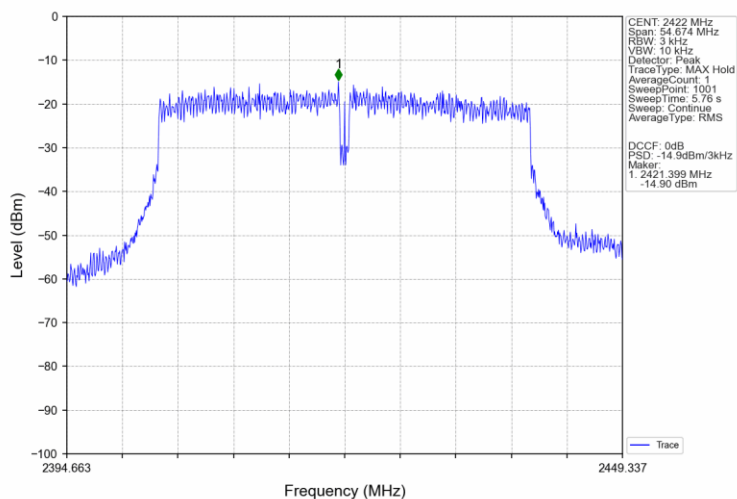
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



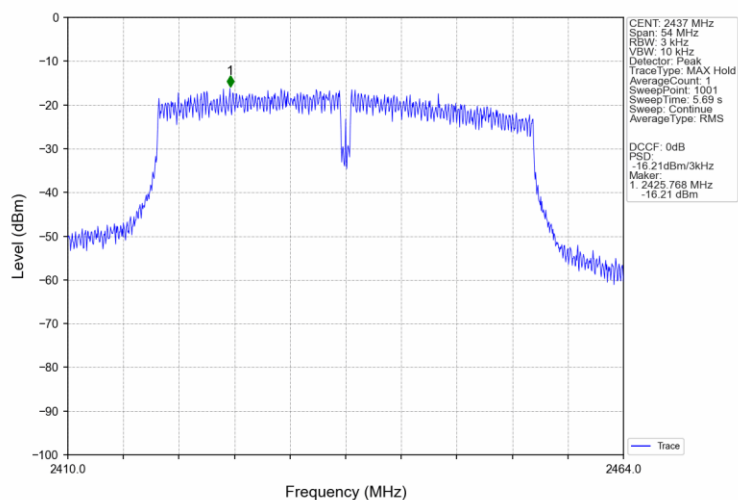
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



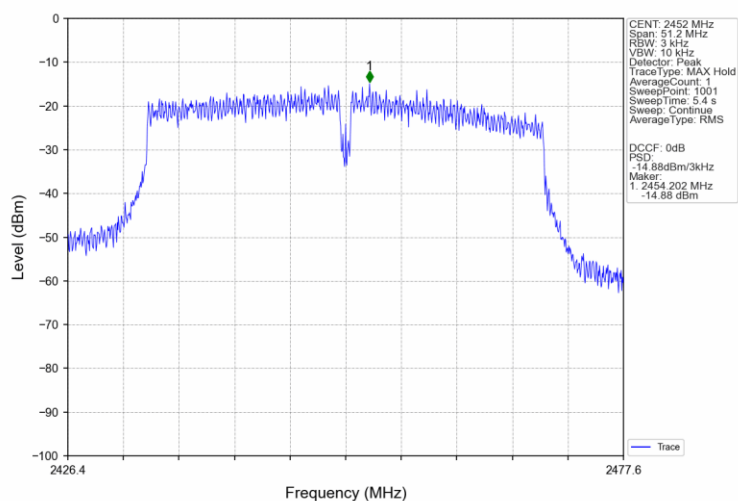
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	6.36
		2437	1	6.16
		2462	1	4.82
802.11g	SISO	2412	1	0.19
		2437	1	0.89
		2462	1	0.20
802.11n (HT20)	SISO	2412	1	-0.14
		2437	1	0.11
		2462	1	-0.39
802.11n (HT40)	SISO	2422	1	-3.99
		2437	1	-4.80
		2452	1	-3.58

Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

4.1.2 CSE

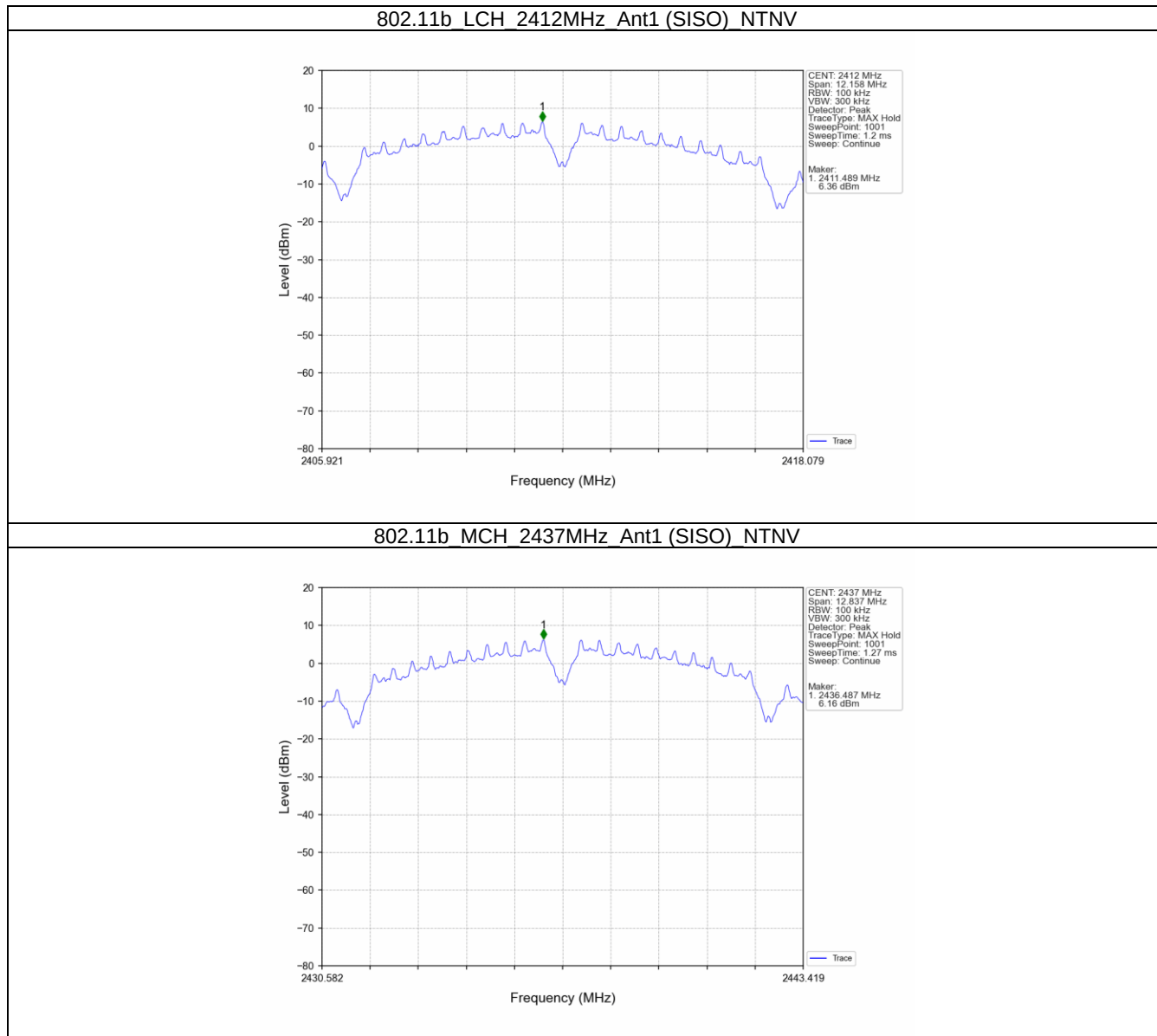
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	6.36	-13.64	Pass
		2437	1	6.16	-13.84	Pass
		2462	1	4.82	-15.18	Pass
802.11g	SISO	2412	1	0.19	-19.81	Pass
		2437	1	0.89	-19.11	Pass
		2462	1	0.20	-19.80	Pass
802.11n (HT20)	SISO	2412	1	-0.14	-20.14	Pass
		2437	1	0.11	-19.89	Pass
		2462	1	-0.39	-20.39	Pass
802.11n (HT40)	SISO	2422	1	-3.99	-23.99	Pass
		2437	1	-4.80	-24.80	Pass
		2452	1	-3.58	-23.58	Pass

Note1: Refer to RSS-247 Issue 3 section 5.5 and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

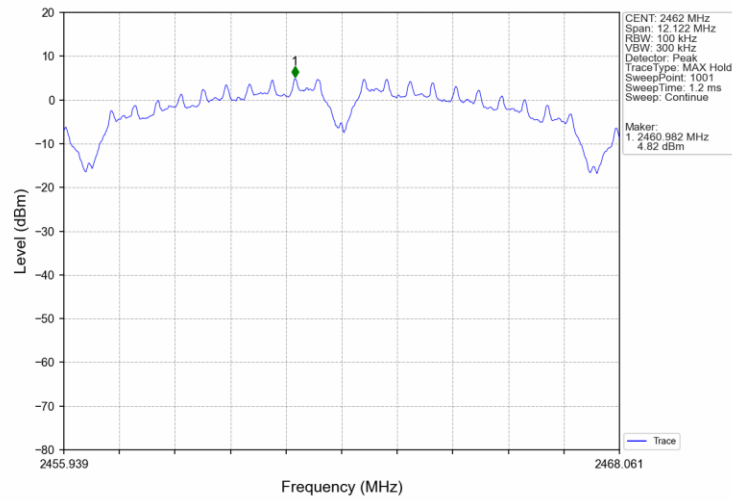


4.2 Test Graph

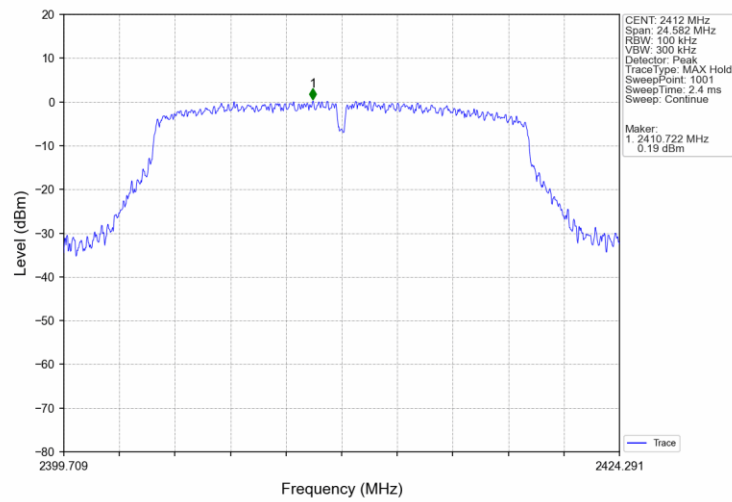
4.2.1 Ref



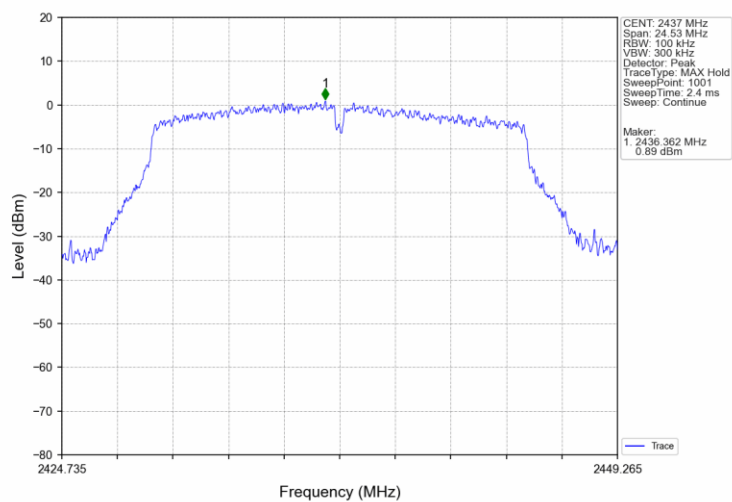
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



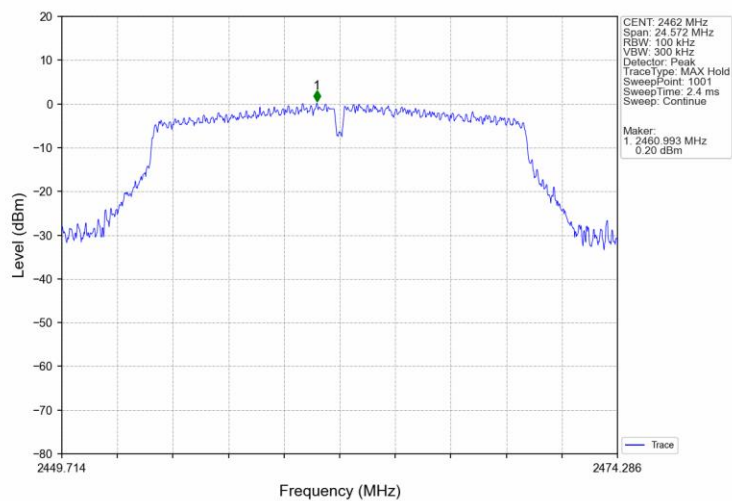
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



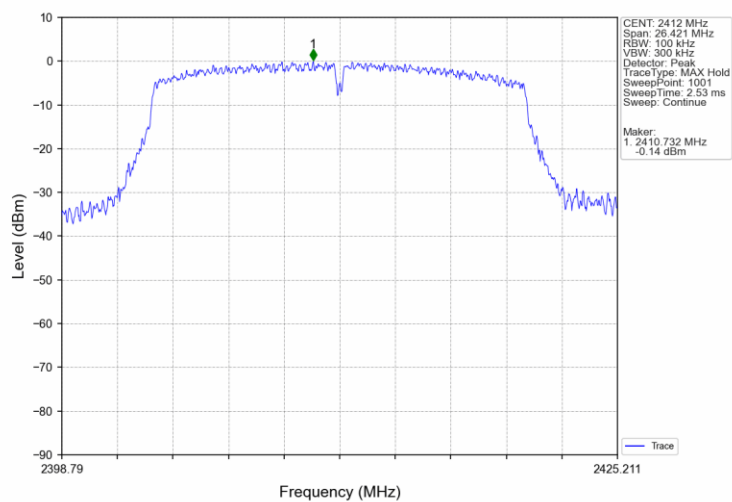
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



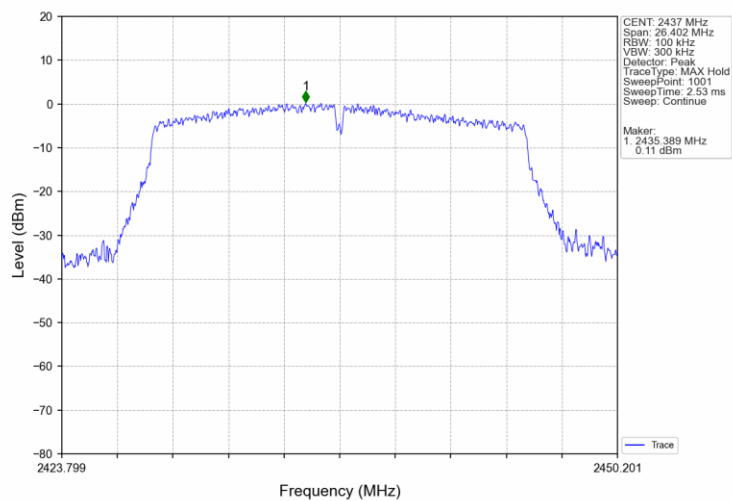
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



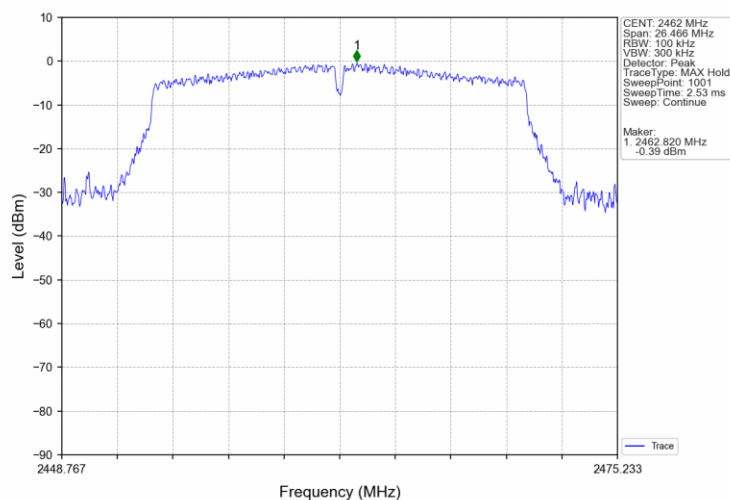
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



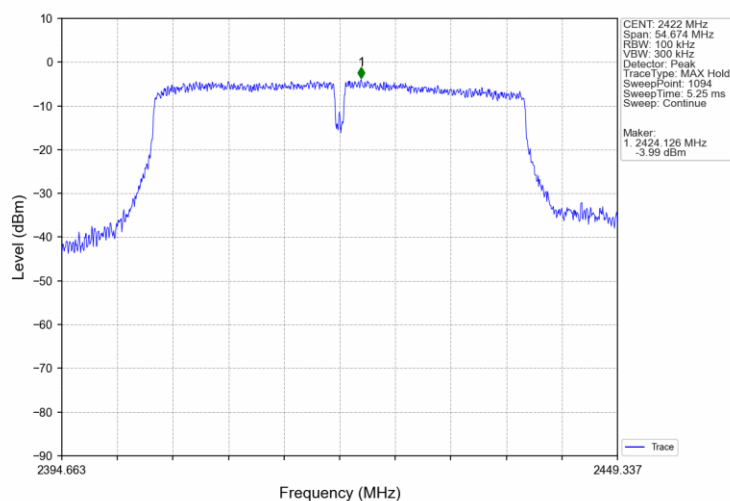
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



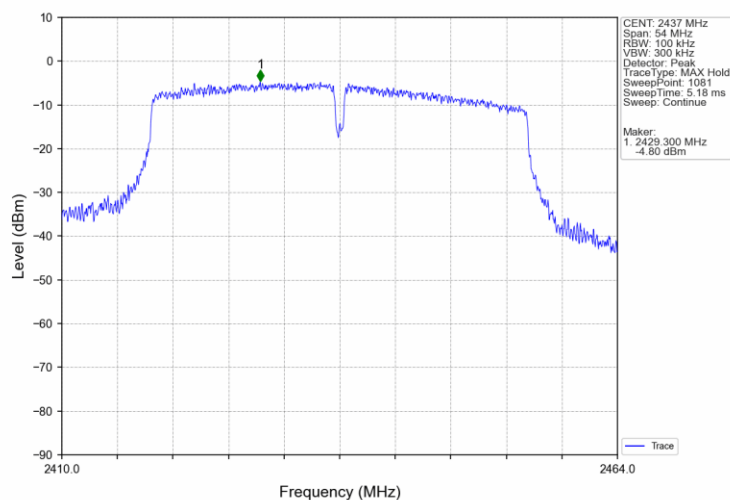
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



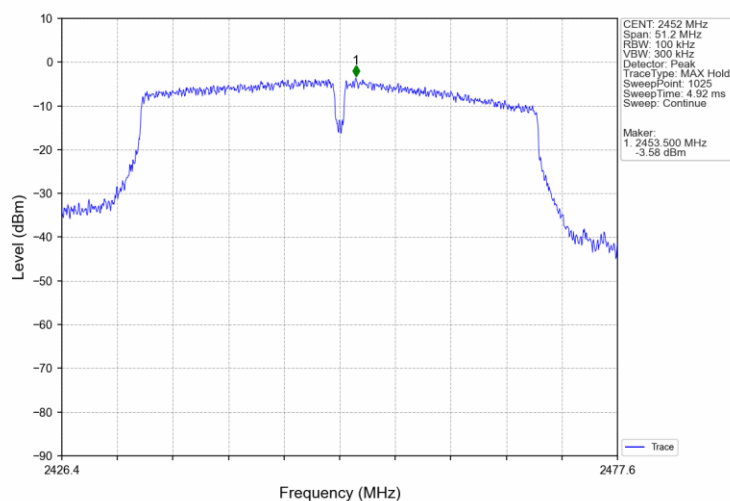
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

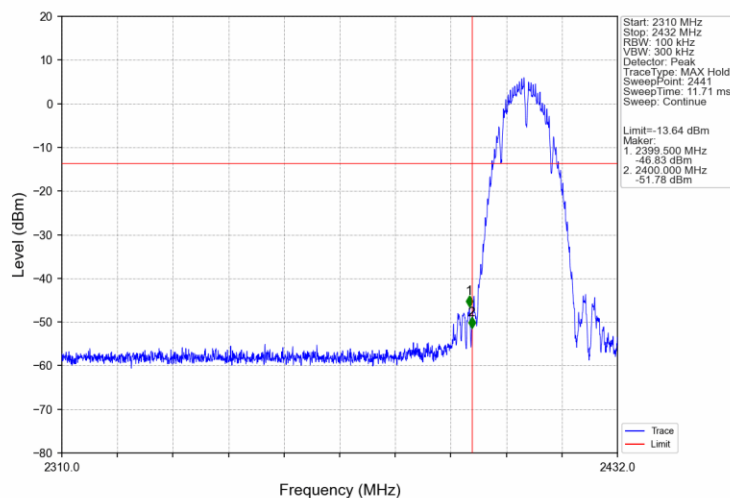


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

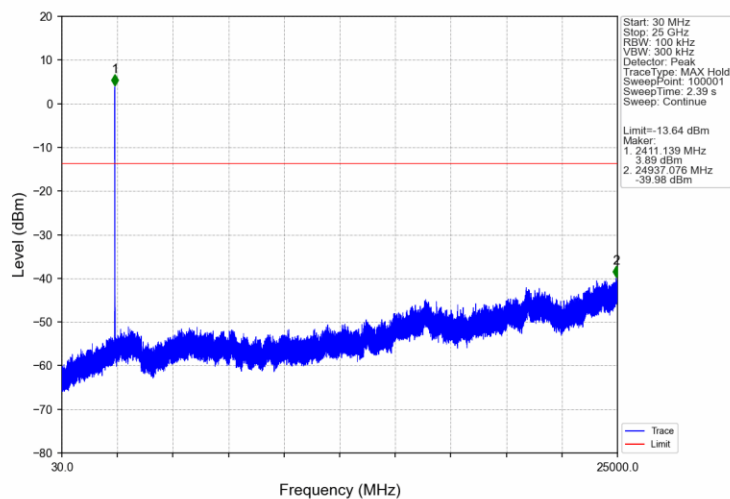


4.2.2 CSE

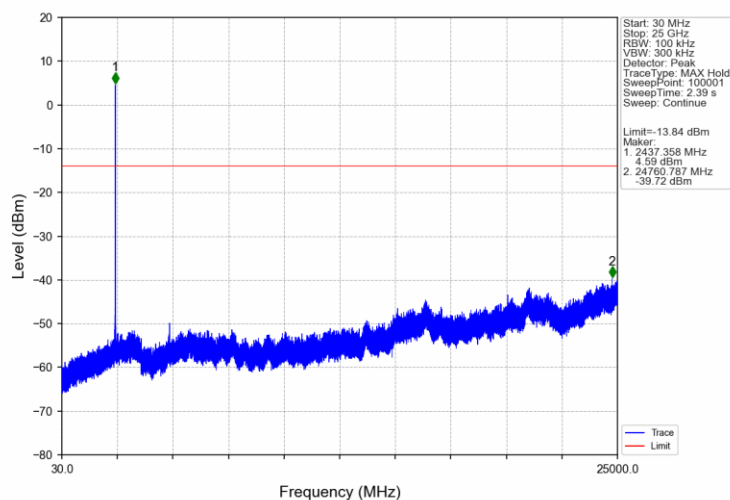
802.11b LCH 2412MHz Ant1 (SISO) NTN



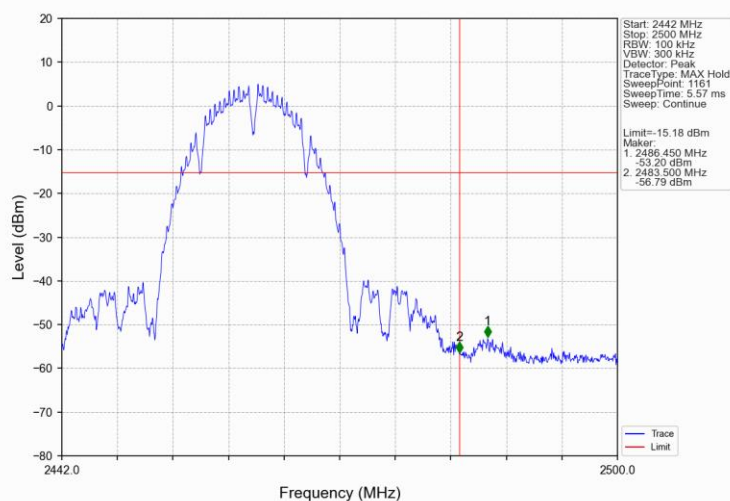
802.11b LCH 2412MHz Ant1 (SISO) NTN



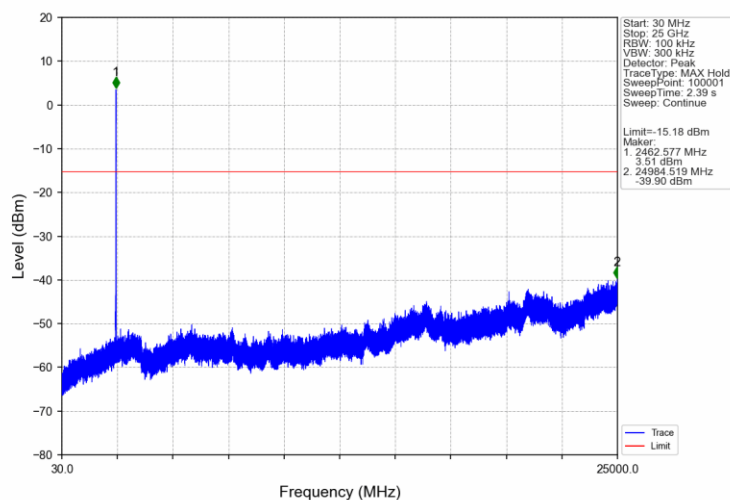
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



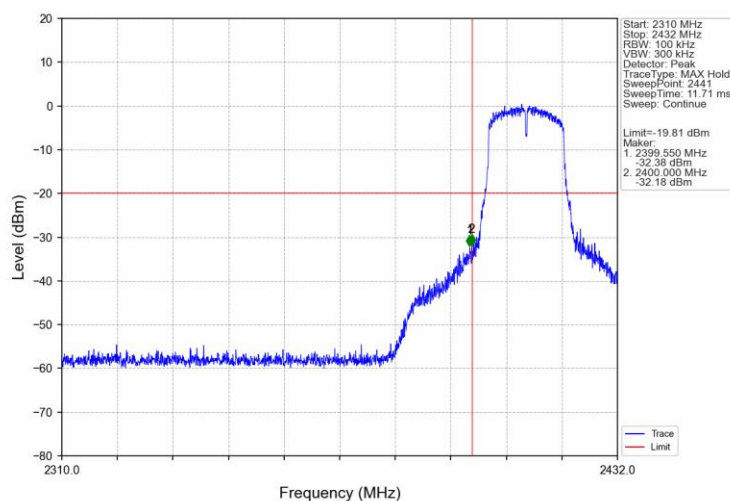
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



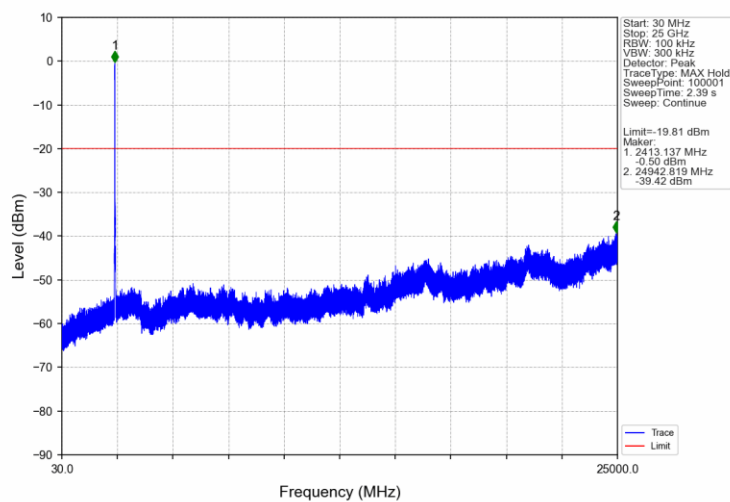
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



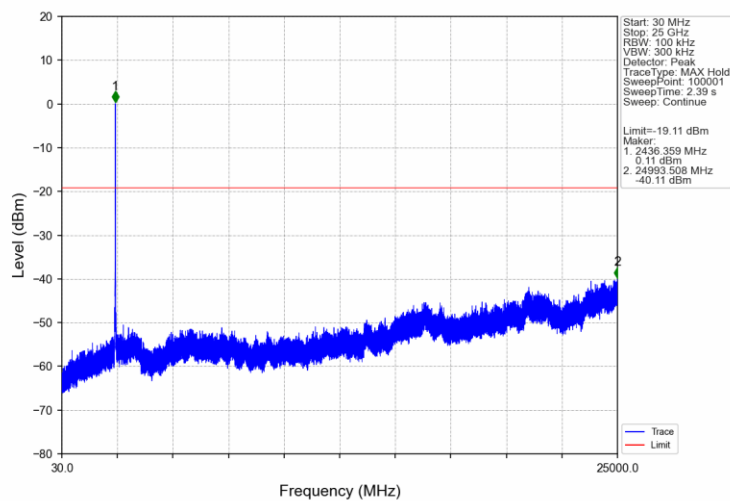
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



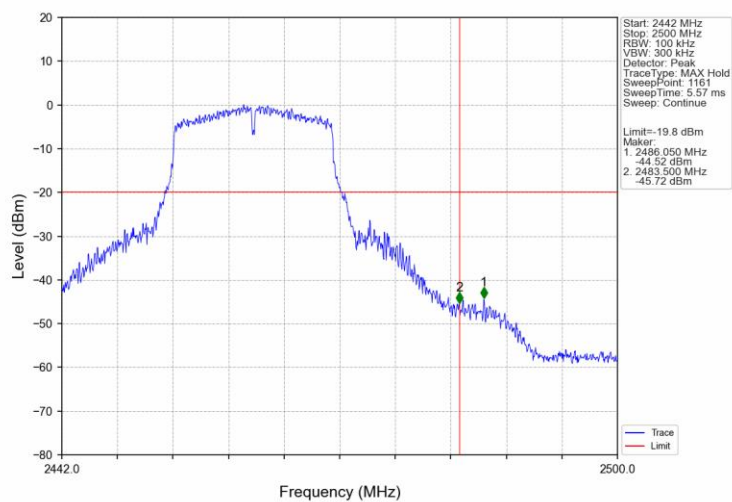
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



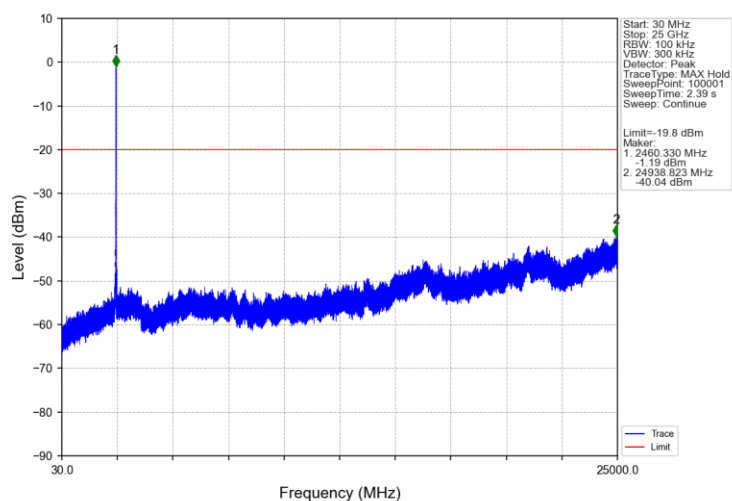
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



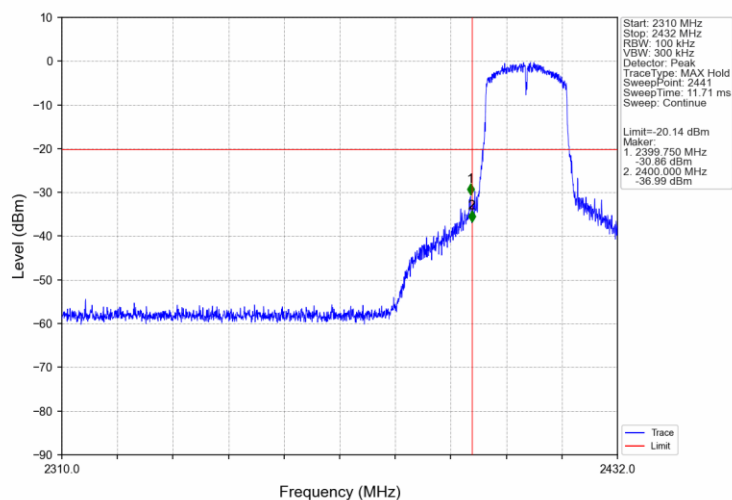
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



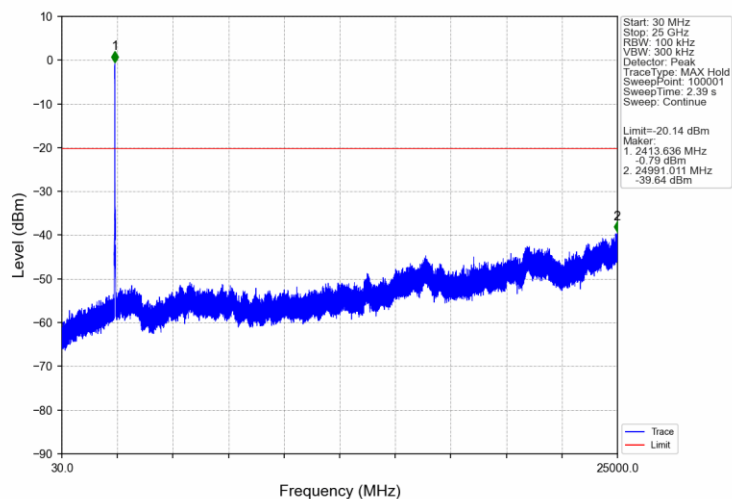
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



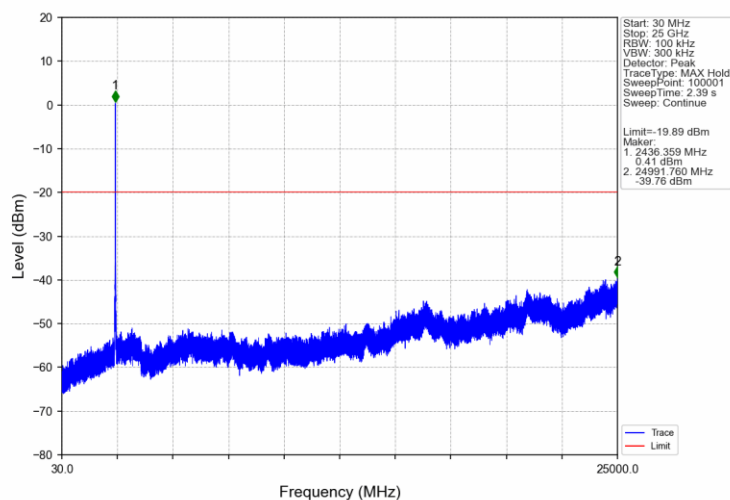
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



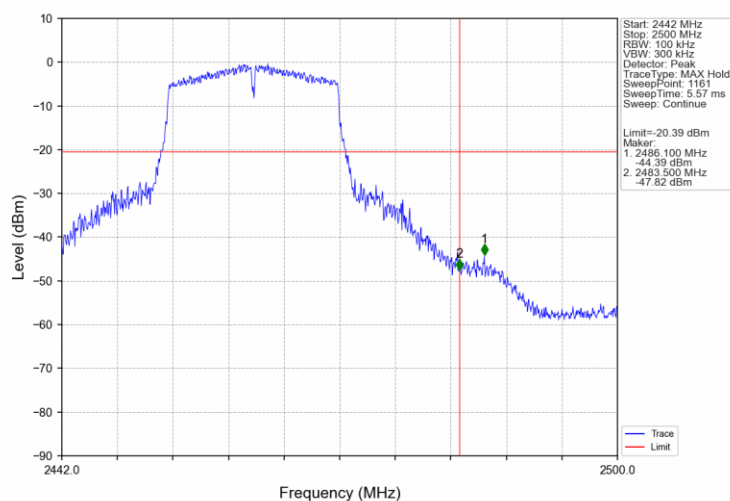
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



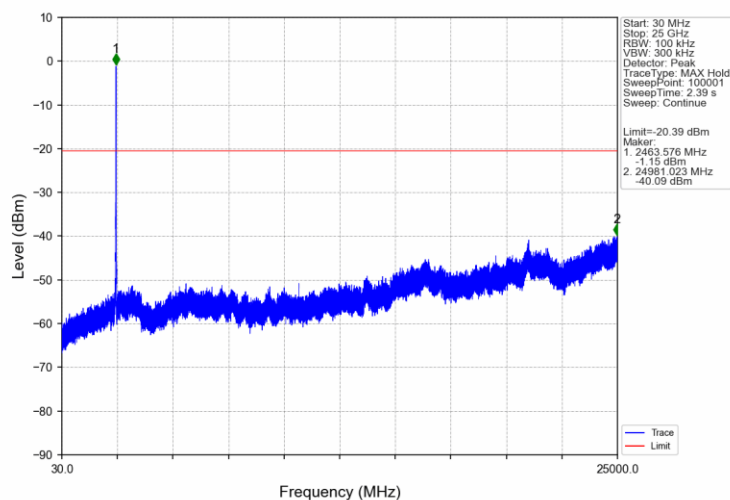
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



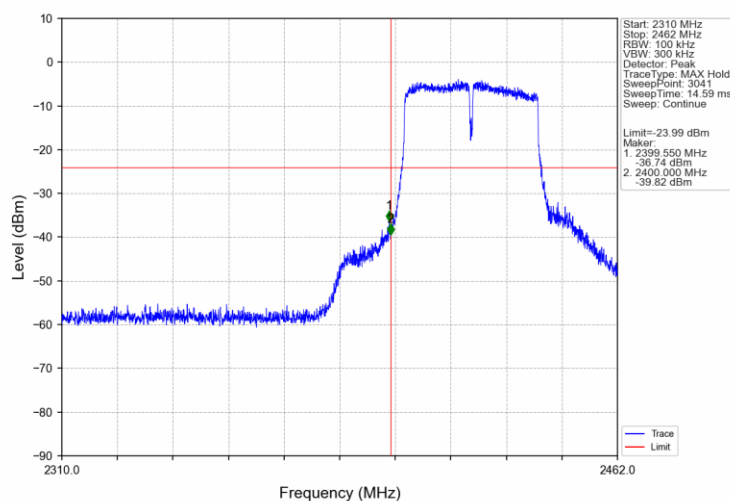
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



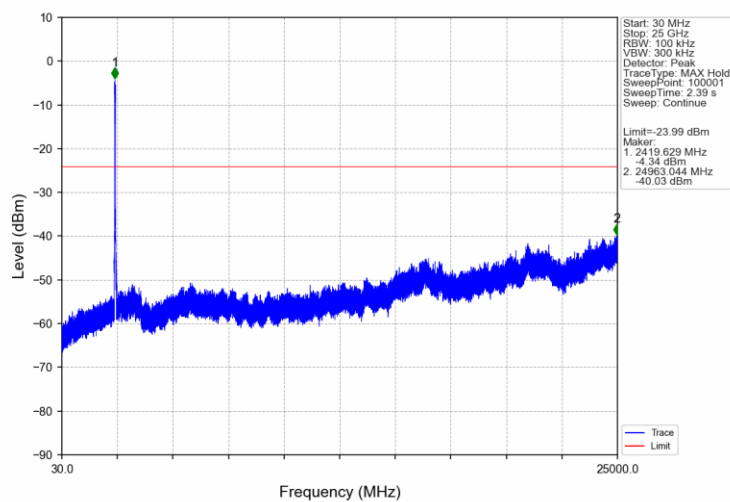
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



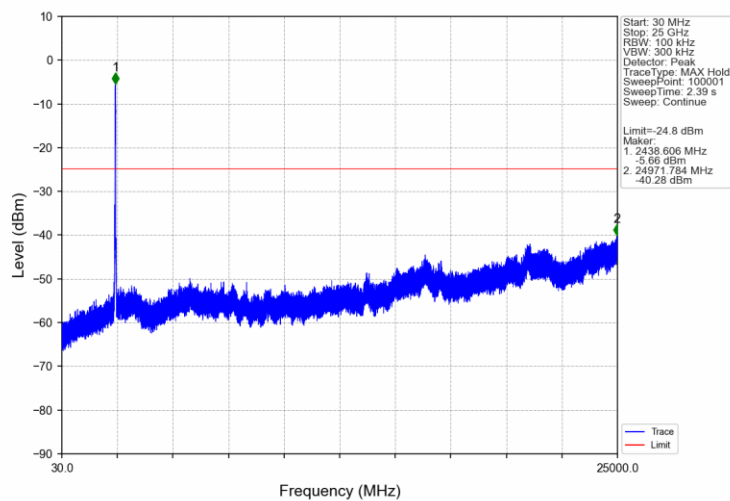
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



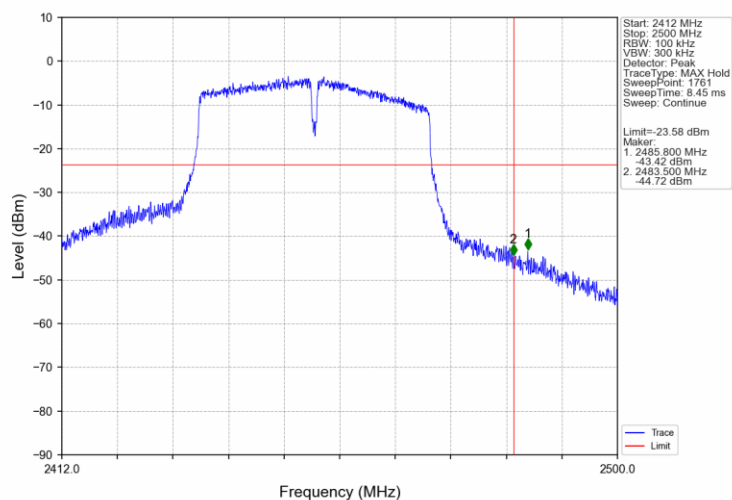
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



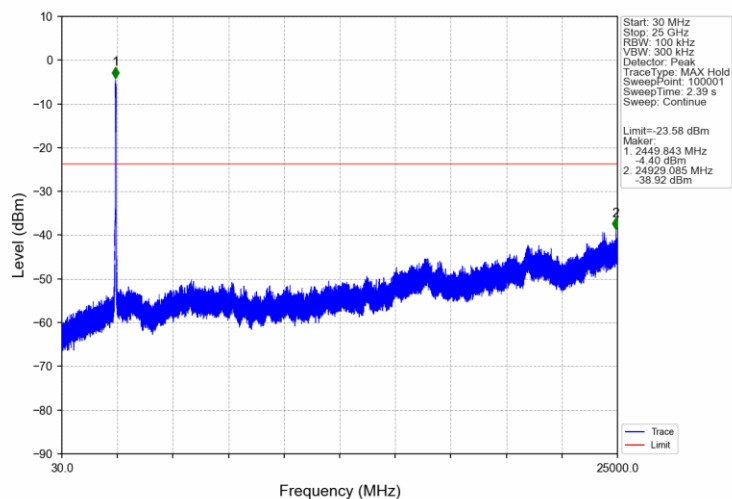
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





5. Form731

5.1 Test Result

5.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.1403	21.47
2422	2452	0.1153	20.62

Mode	Lower Freq. (MHz)	High Freq. (MHz)	MAX Power (W)	MAX Power (dBm)	MIN Power (W)	MIN Power (dBm)	Emission Designator	MAX OBW (MHz)
802.11b	2412	2462	0.0458	16.61	0.0343	15.35	13M1G1D	13.083
802.11g	2412	2462	0.1403	21.47	0.1161	20.65	17M9D1D	17.95
802.11n (HT20)	2412	2462	0.1315	21.19	0.1146	20.59	18M6D1D	18.635
802.11n (HT40)	2422	2452	0.1153	20.62	0.0879	19.44	37M0D1D	37.023