

Product Name : Smart Glasses

Mode: WAI3

FCC ID : 2BVNZ-WAI3

1. Duty Cycle

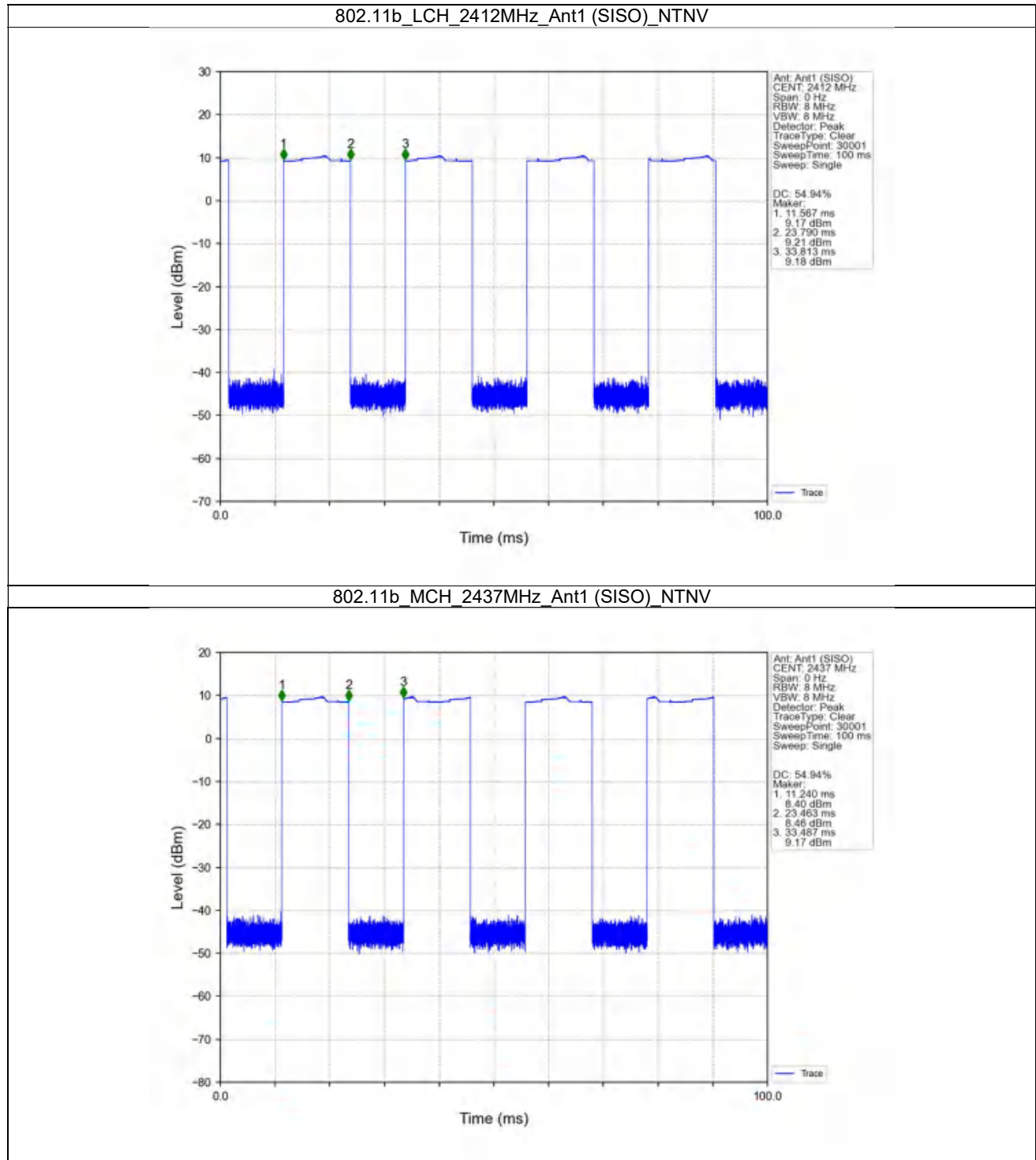
1.1 Test Result

1.1.1 Ant1

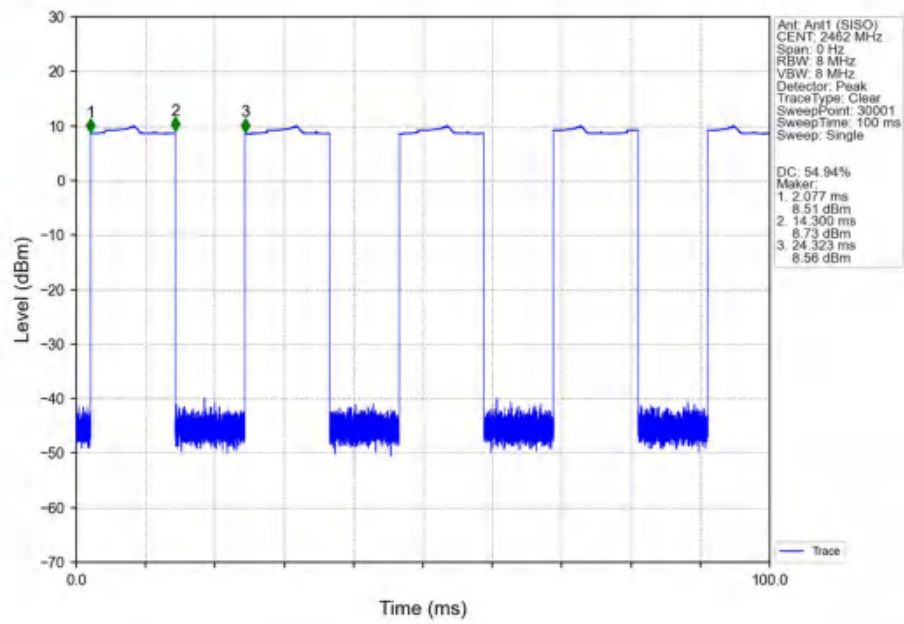
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.223	22.246	54.94	2.60	0.01
		2437	12.223	22.247	54.94	2.60	0.01
		2462	12.223	22.246	54.94	2.60	0.01
802.11g	SISO	2412	2.034	2.270	89.60	0.48	4.50
		2437	2.035	2.270	89.65	0.47	4.48
		2462	2.034	2.315	87.86	0.56	6.21
802.11n (HT20)	SISO	2412	0.227	0.453	50.11	3.00	14.01
		2437	0.227	0.435	52.18	2.82	11.94
		2462	0.227	0.462	49.13	3.09	14.97

1.2 Test Graph

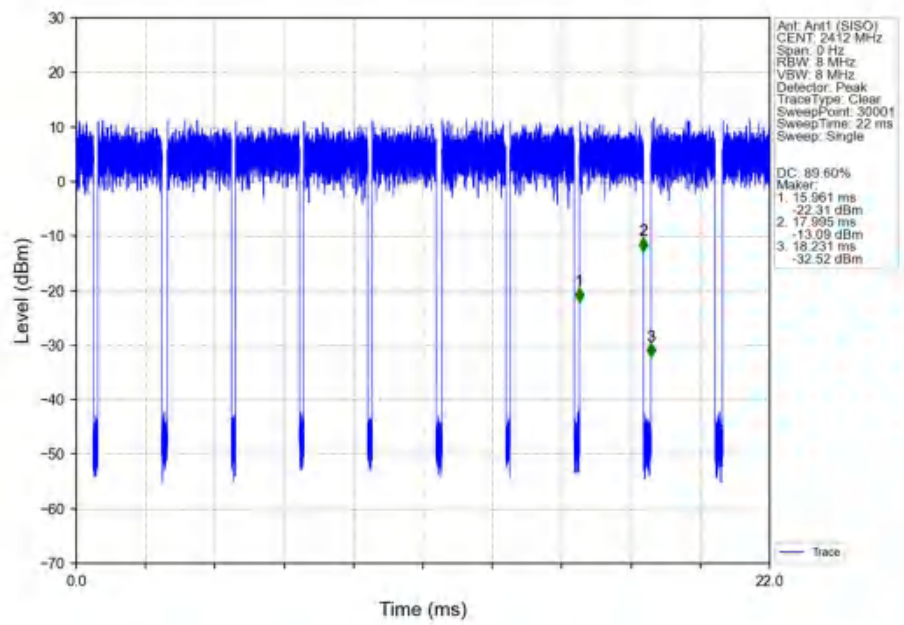
1.2.1 Ant1



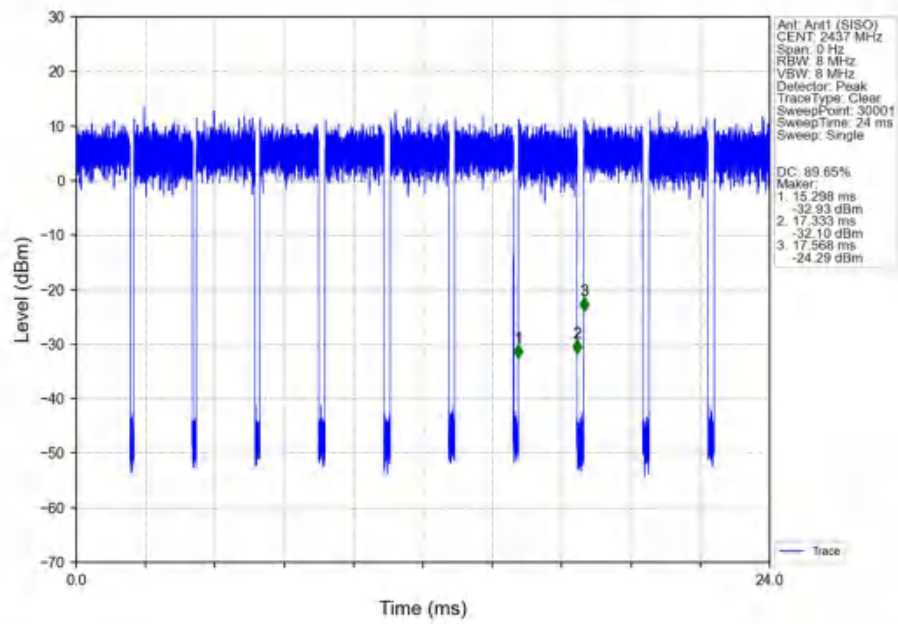
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



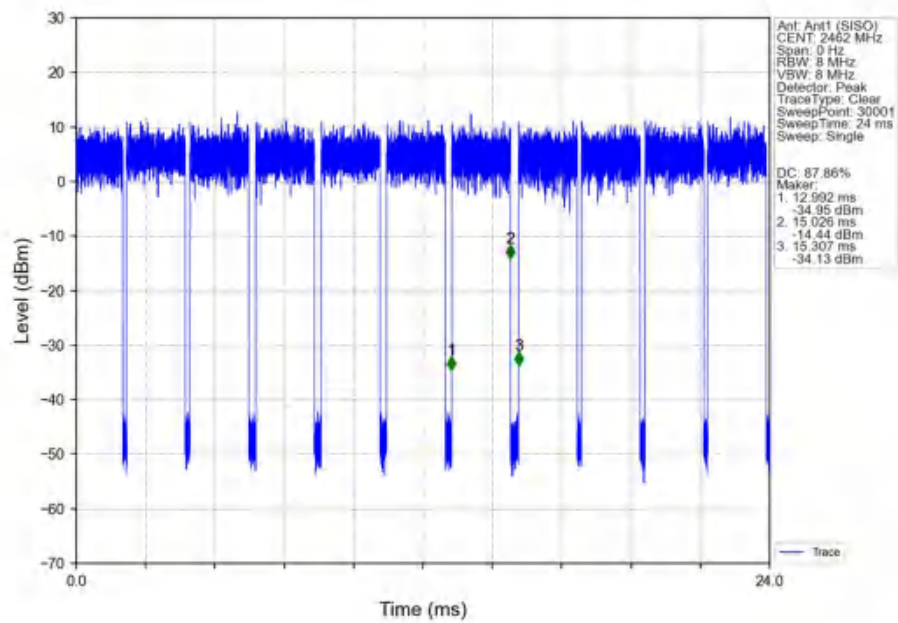
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



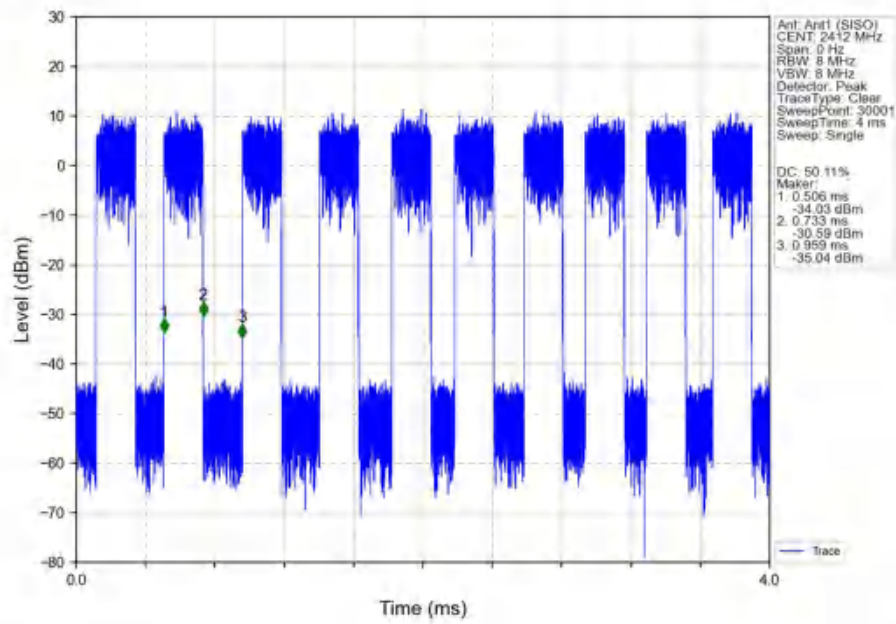
802.11g_MCH_2437MHz_Ant1 (SISO) NTN



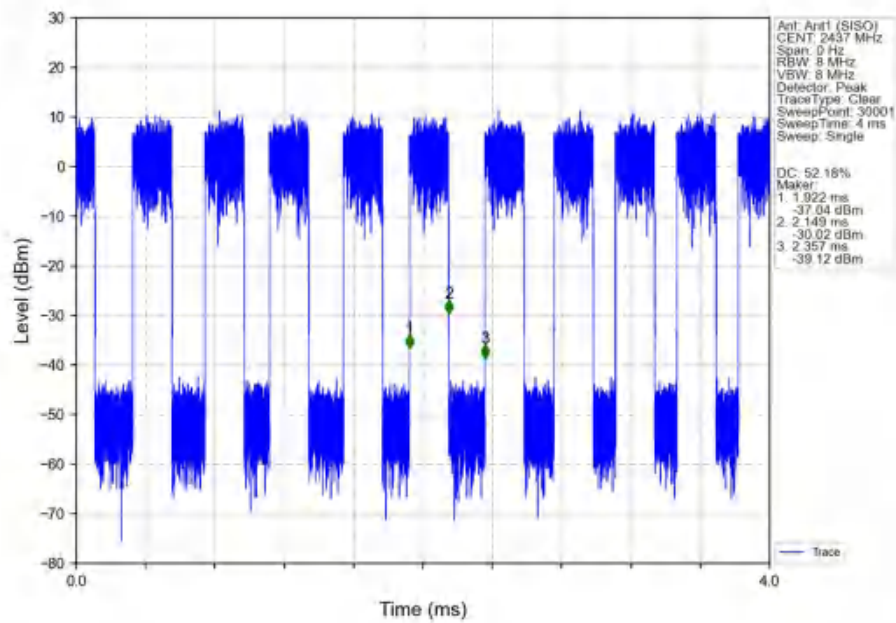
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



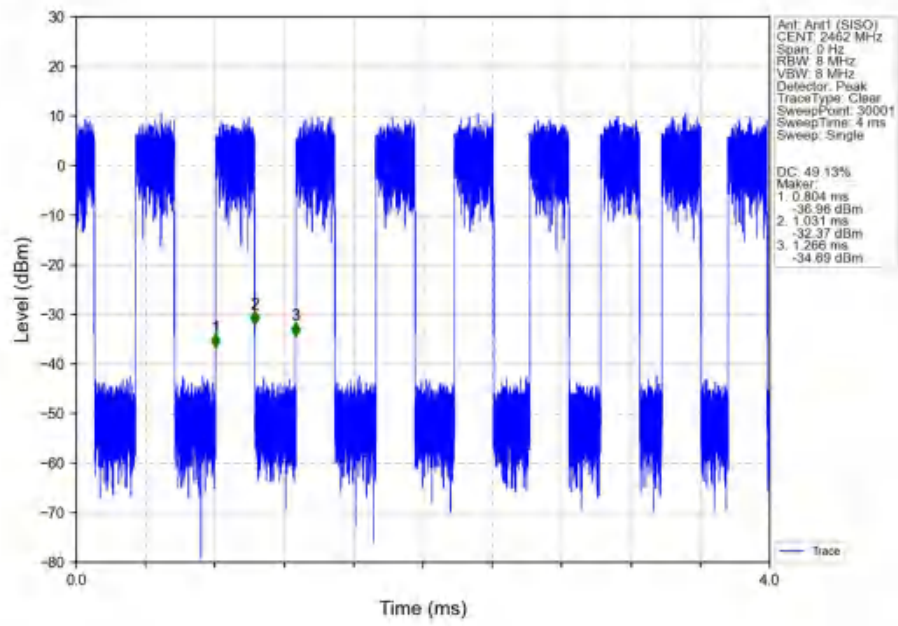
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

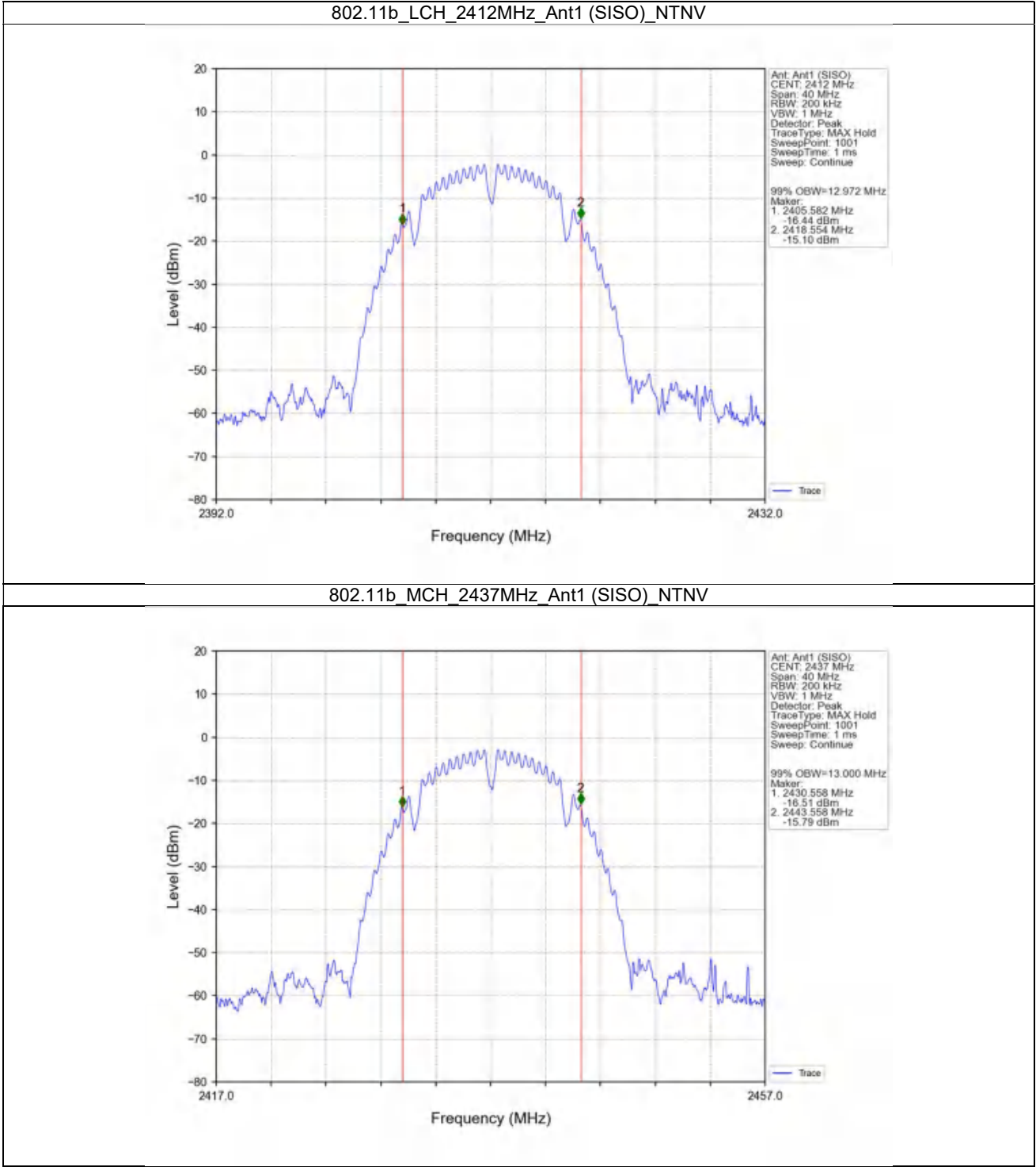
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.972	/	Pass
		2437	1	13.000	/	Pass
		2462	1	13.000	/	Pass
802.11g	SISO	2412	1	16.749	/	Pass
		2437	1	16.713	/	Pass
		2462	1	16.747	/	Pass
802.11n (HT20)	SISO	2412	1	17.801	/	Pass
		2437	1	17.782	/	Pass
		2462	1	17.783	/	Pass

2.1.2 6dB BW

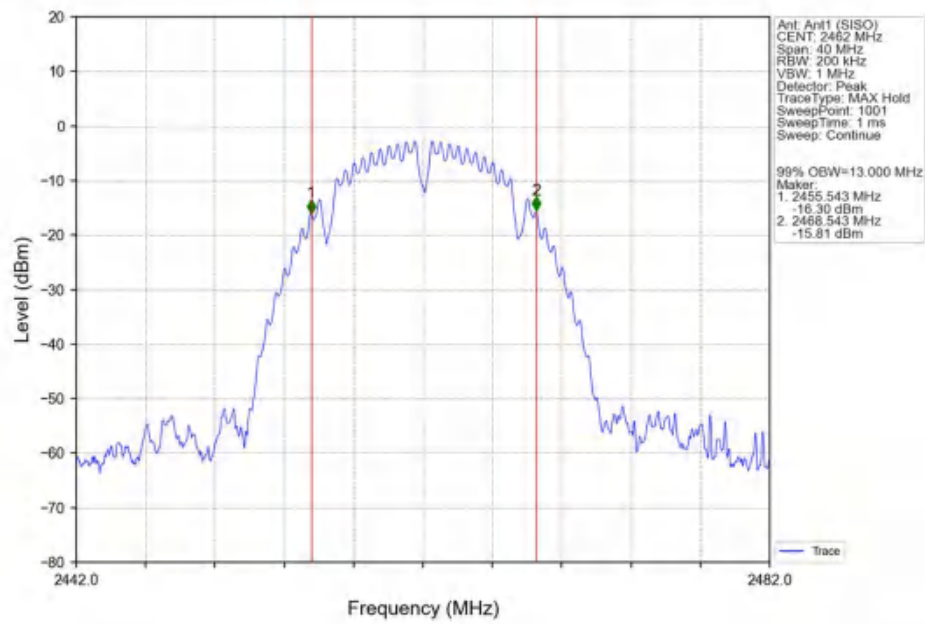
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.162	≥ 0.5	Pass
		2437	1	9.160	≥ 0.5	Pass
		2462	1	9.166	≥ 0.5	Pass
802.11g	SISO	2412	1	16.350	≥ 0.5	Pass
		2437	1	16.370	≥ 0.5	Pass
		2462	1	16.348	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.746	≥ 0.5	Pass
		2437	1	17.730	≥ 0.5	Pass
		2462	1	17.740	≥ 0.5	Pass

2.2 Test Graph

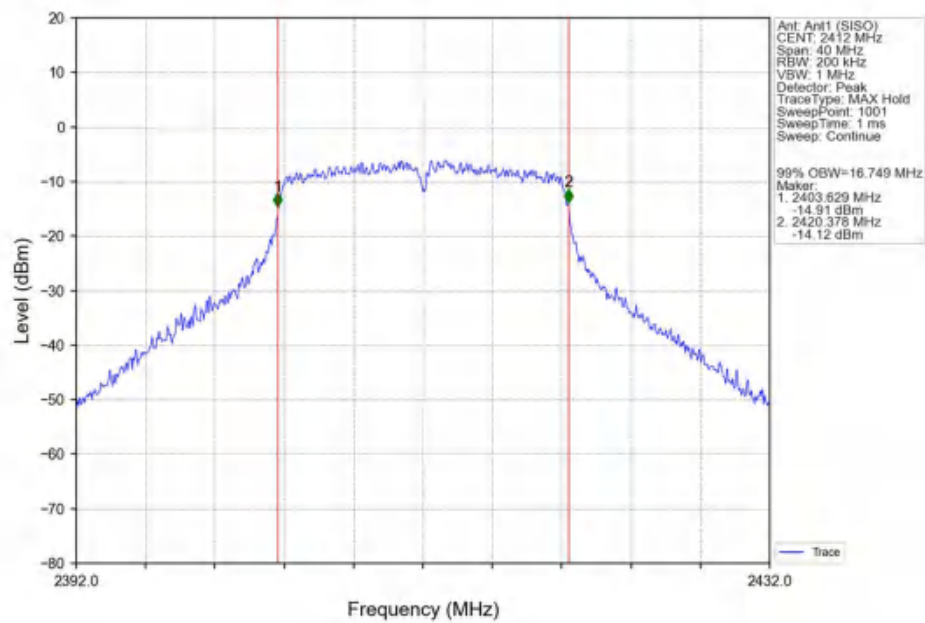
2.2.1 OBW



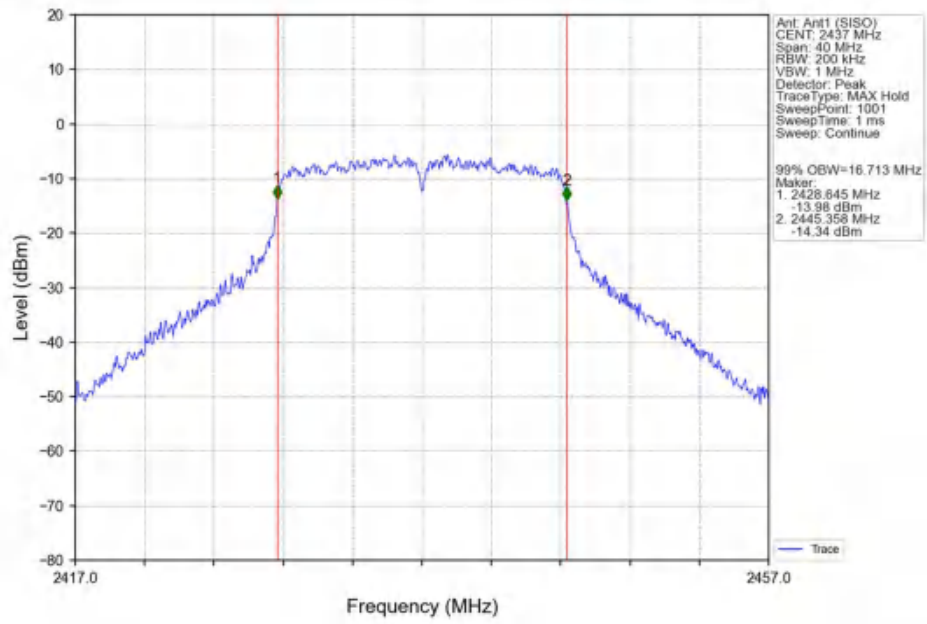
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



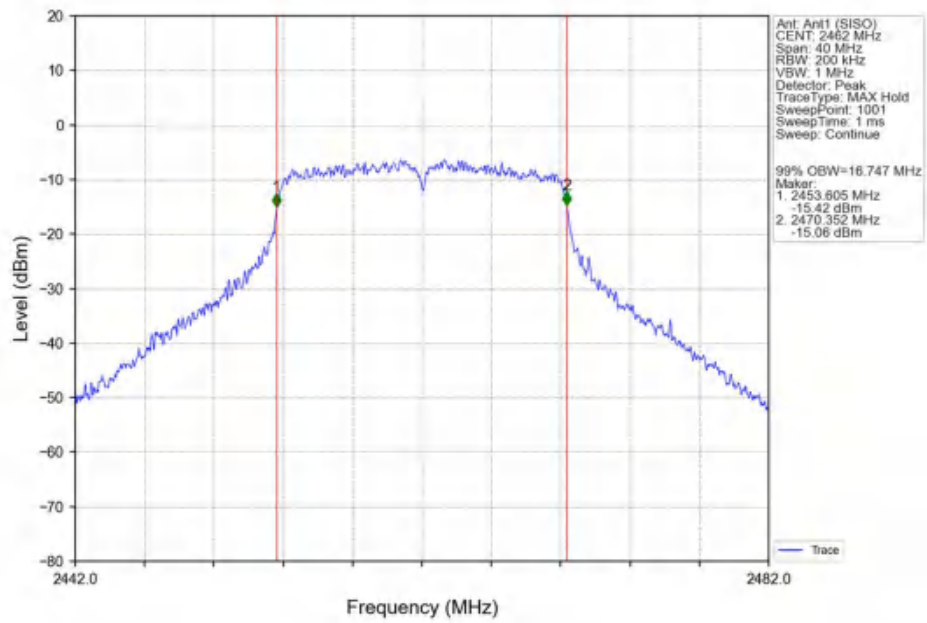
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



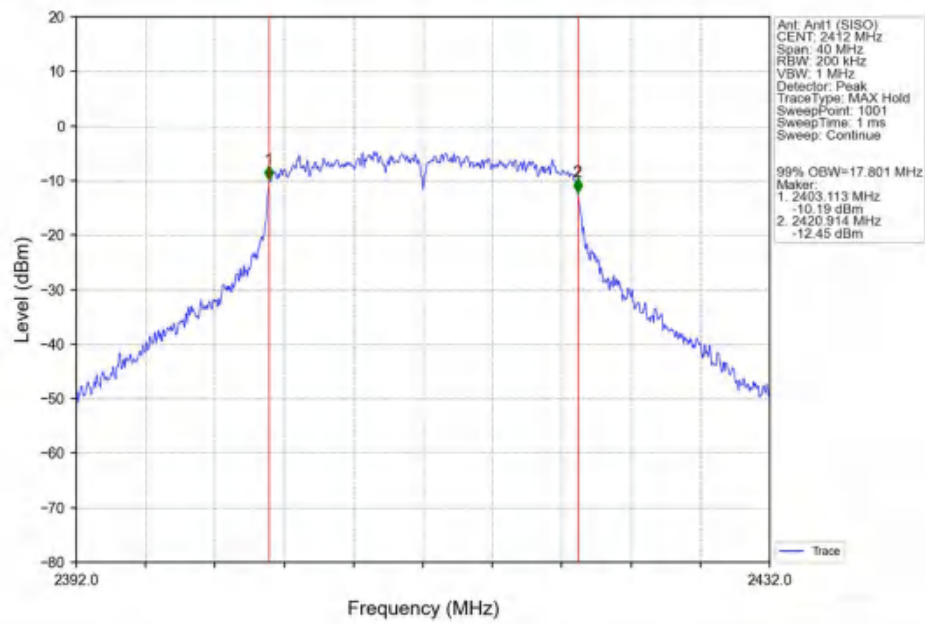
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



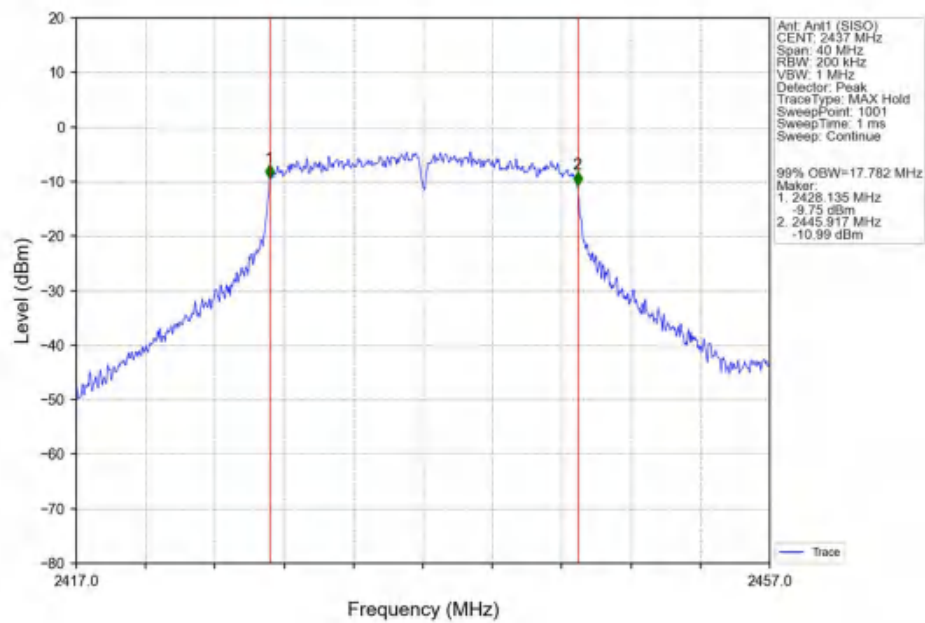
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



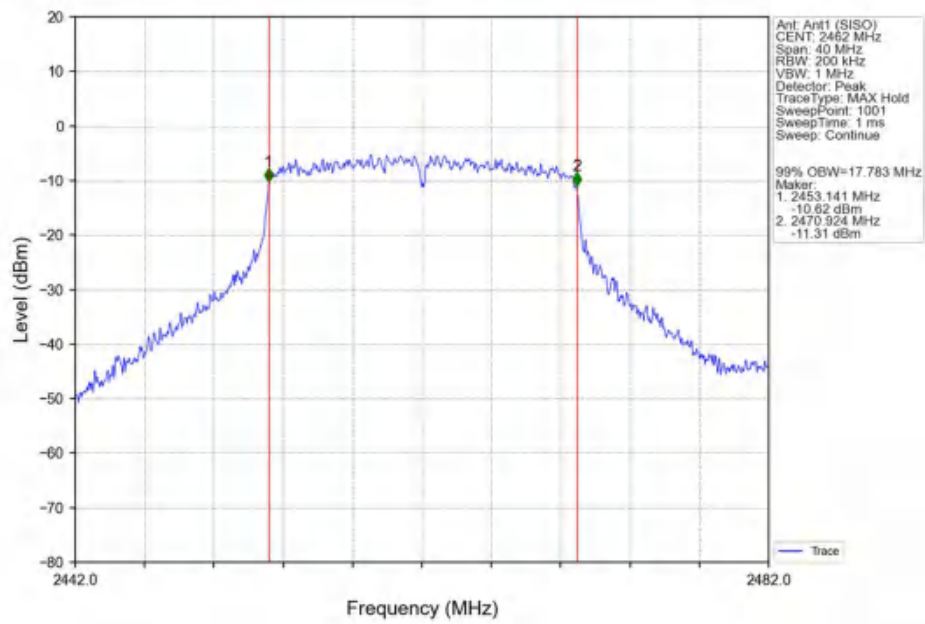
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



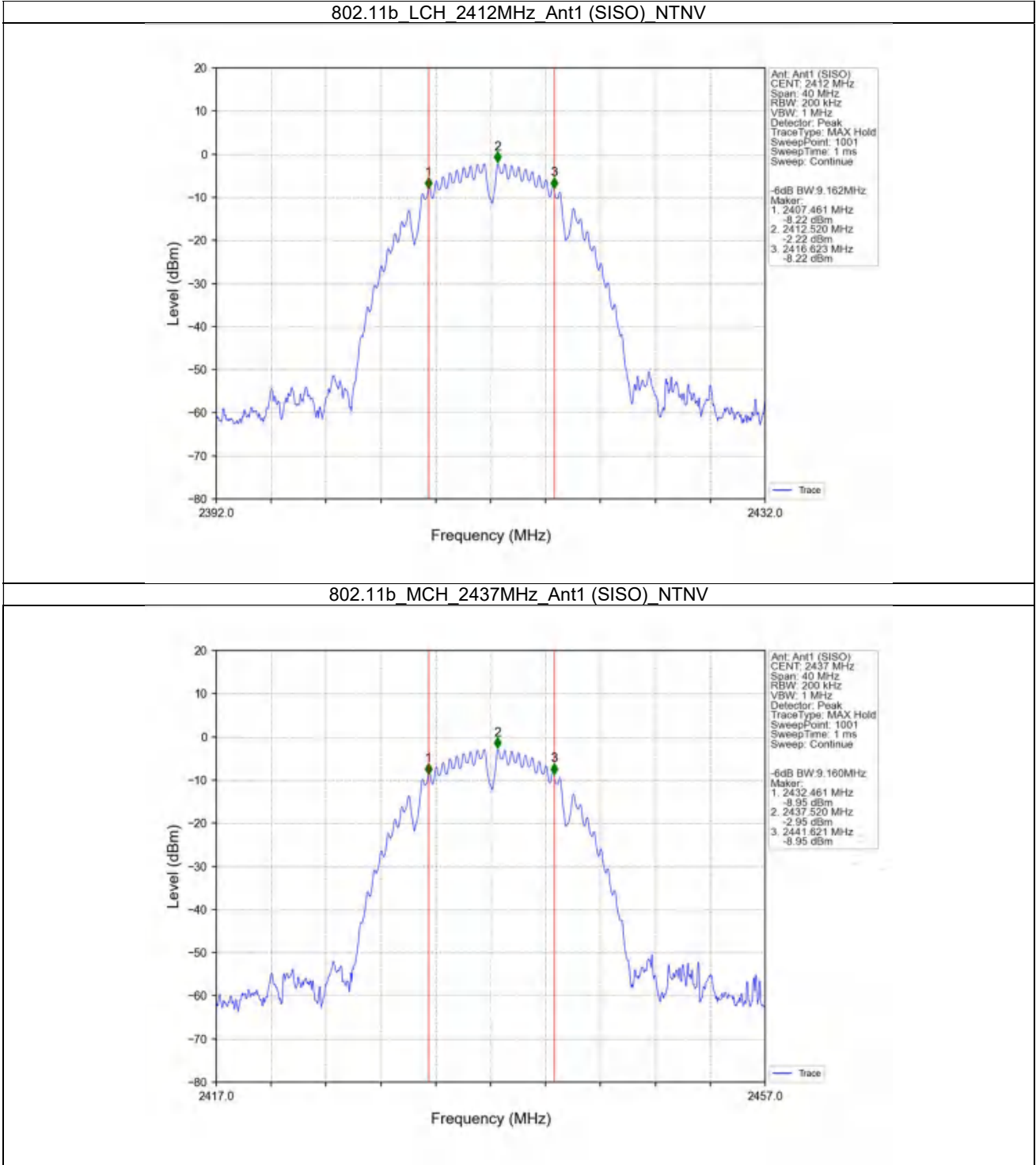
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



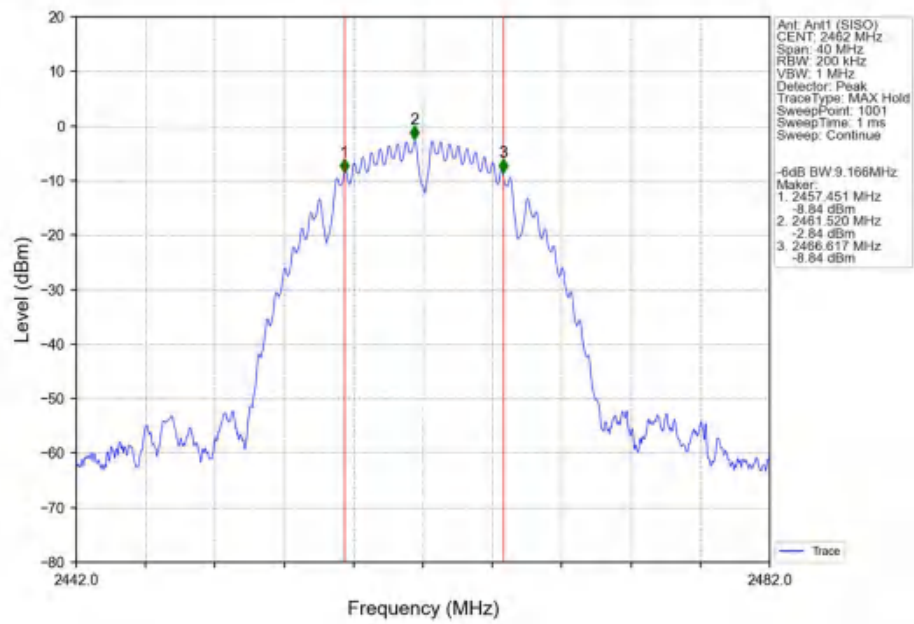
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



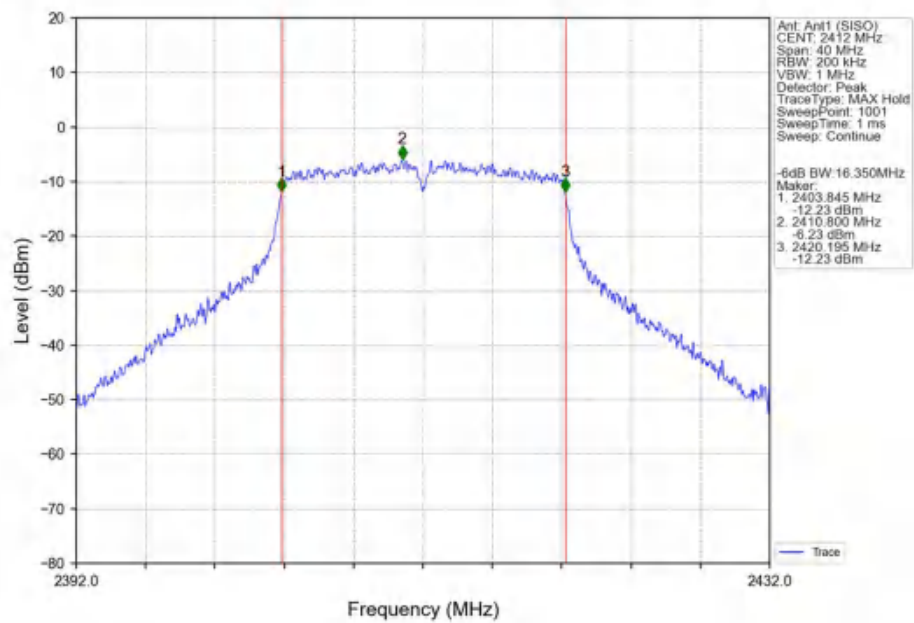
2.2.2 6dB BW



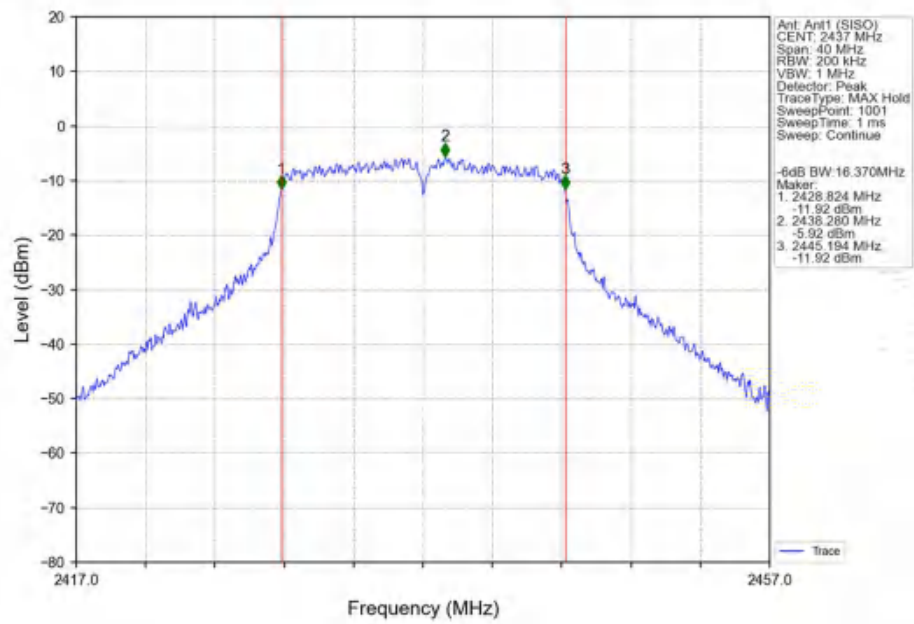
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



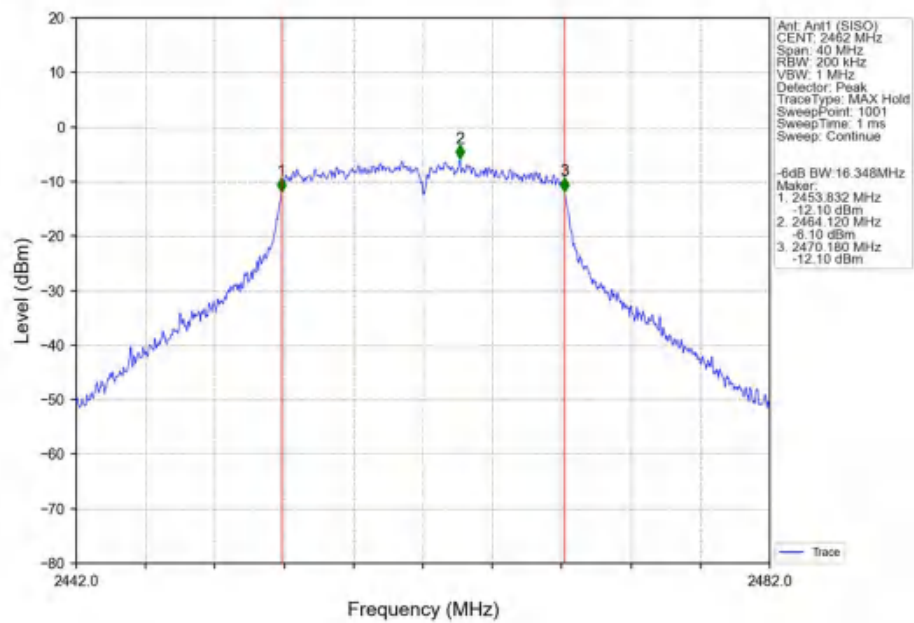
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



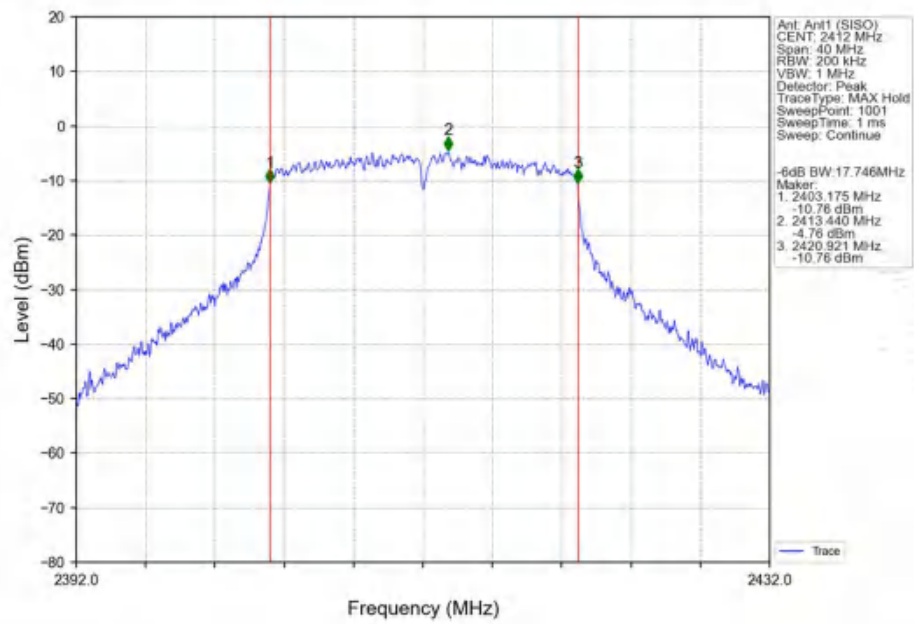
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



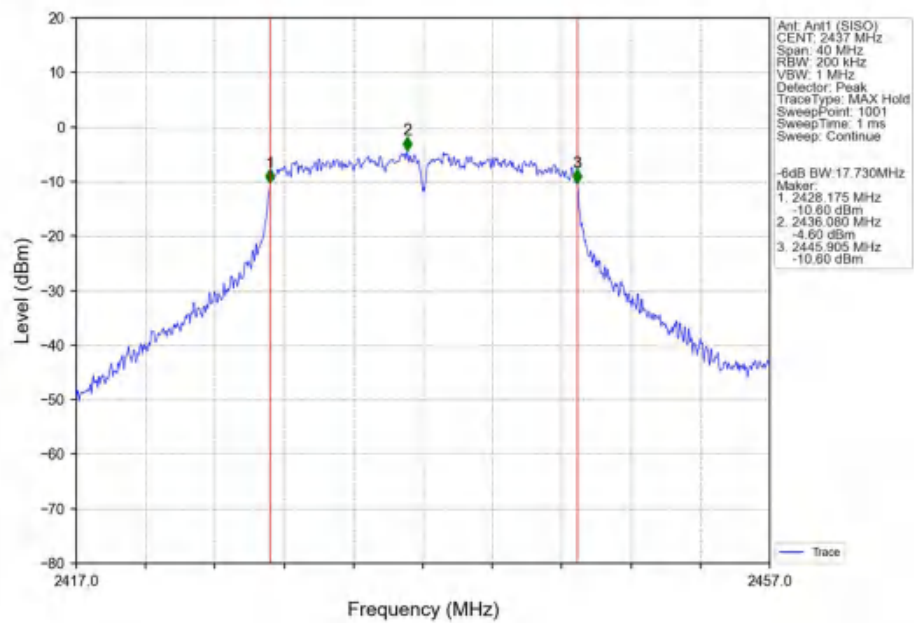
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

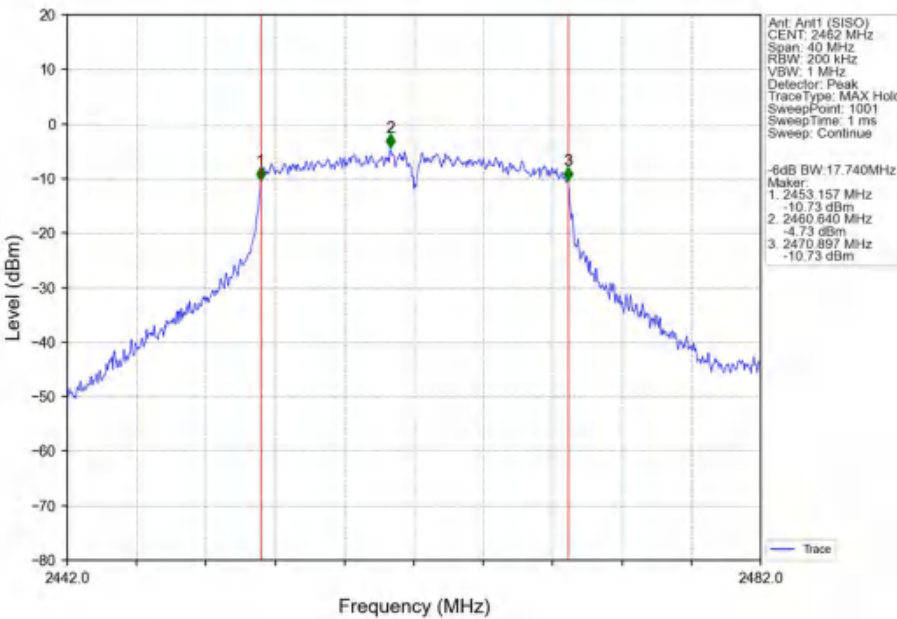


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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
			Conducted Power	Duty Cycle Factor (dB)	Total Conducted Power	Limit	
802.11b	SISO	2412	3.21	2.60	5.81	<=30	Pass
		2437	2.43	2.60	5.03	<=30	Pass
		2462	2.54	2.60	5.14	<=30	Pass
802.11g	SISO	2412	3.01	0.48	3.49	<=30	Pass
		2437	3.28	0.47	3.75	<=30	Pass
		2462	2.74	0.56	3.30	<=30	Pass
802.11n (HT20)	SISO	2412	1.72	3.00	4.72	<=30	Pass
		2437	2.01	2.82	4.83	<=30	Pass
		2462	1.2	3.09	4.29	<=30	Pass
Note1: Antenna Gain: Ant1: 2.48dBi;							

4. Maximum Power Spectral Density

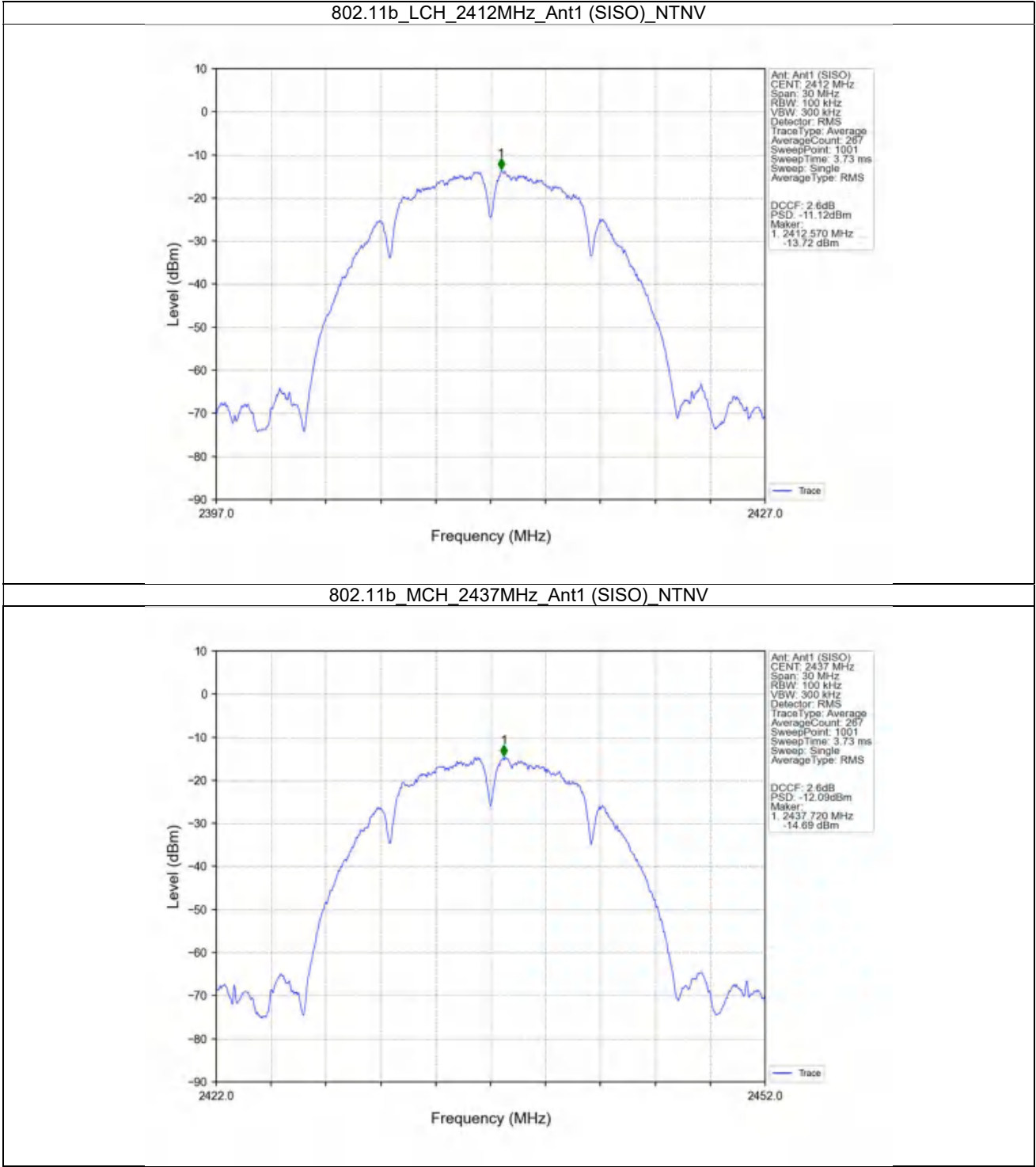
4.1 Test Result

4.1.1 PSD

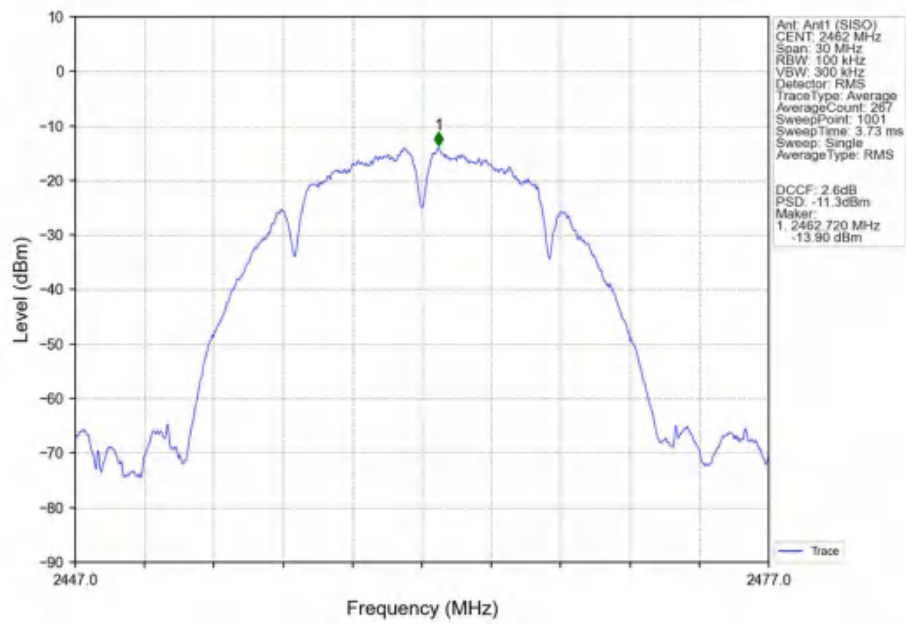
Mode	TX Type	Frequency (MHz)	Maximum PSD		Verdict
			ANT1 (dBm/100KHz)	Limit (dBm/3KHz)	
802.11b	SISO	2412	-11.12	<=8	Pass
		2437	-12.09	<=8	Pass
		2462	-11.30	<=8	Pass
802.11g	SISO	2412	-15.60	<=8	Pass
		2437	-15.57	<=8	Pass
		2462	-16.01	<=8	Pass
802.11n (HT20)	SISO	2412	-13.59	<=8	Pass
		2437	-13.06	<=8	Pass
		2462	-13.73	<=8	Pass
Note1: Antenna Gain: Ant1: 2.48dBi;					

4.2 Test Graph

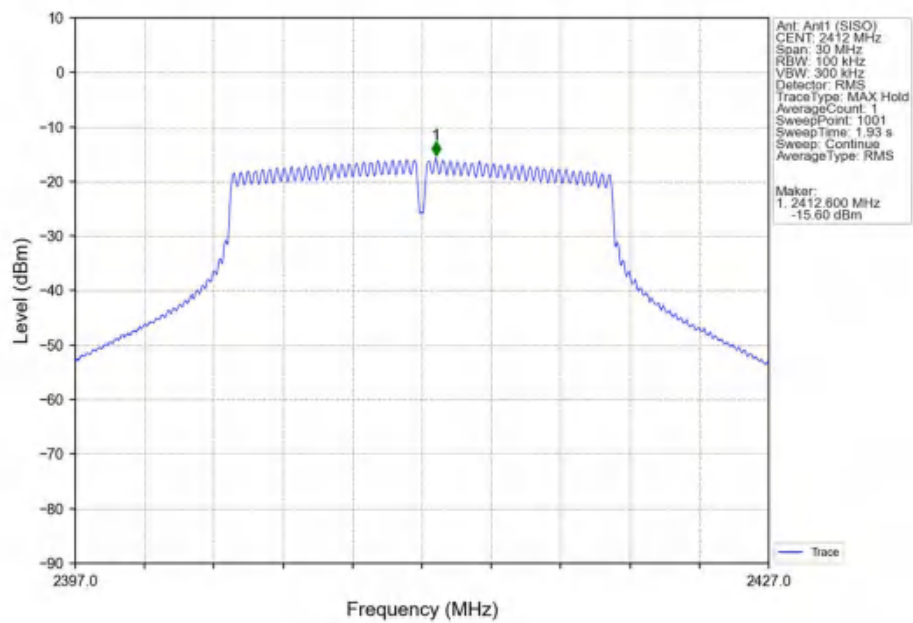
4.2.1 PSD



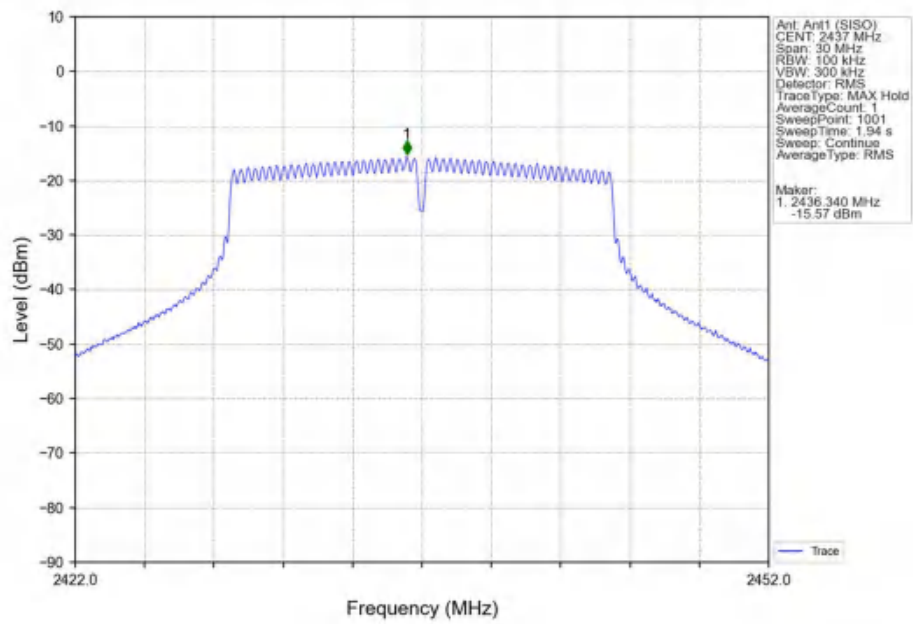
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



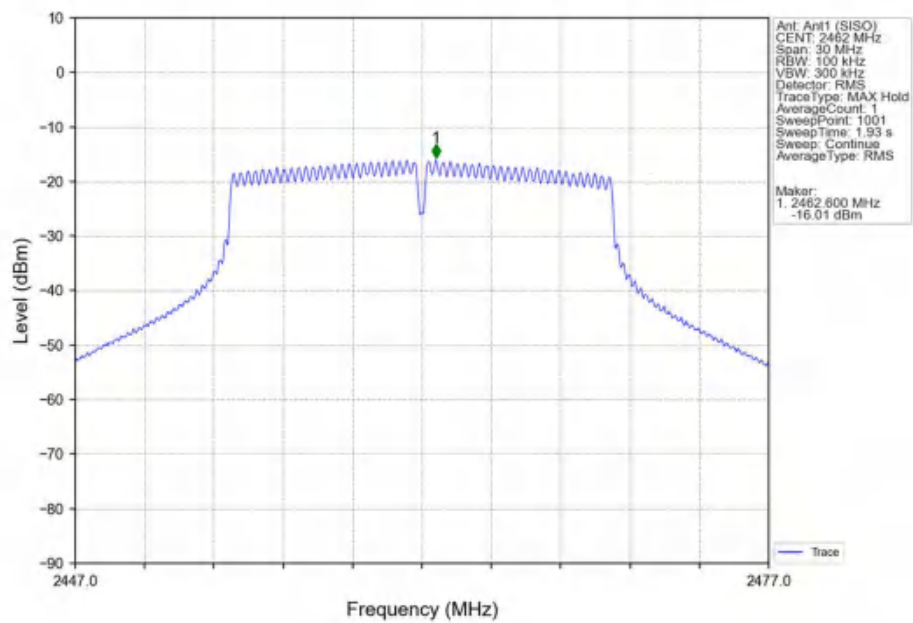
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



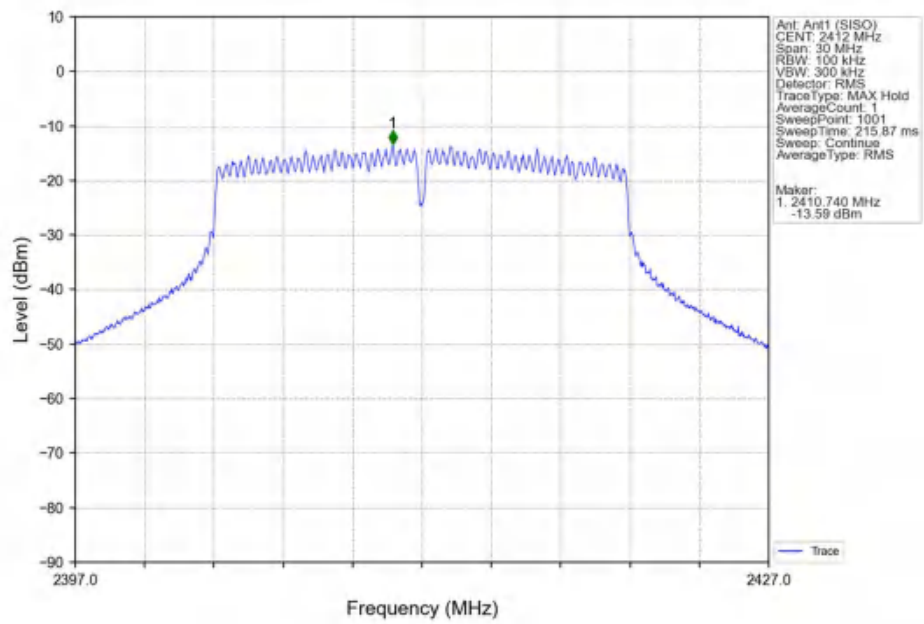
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



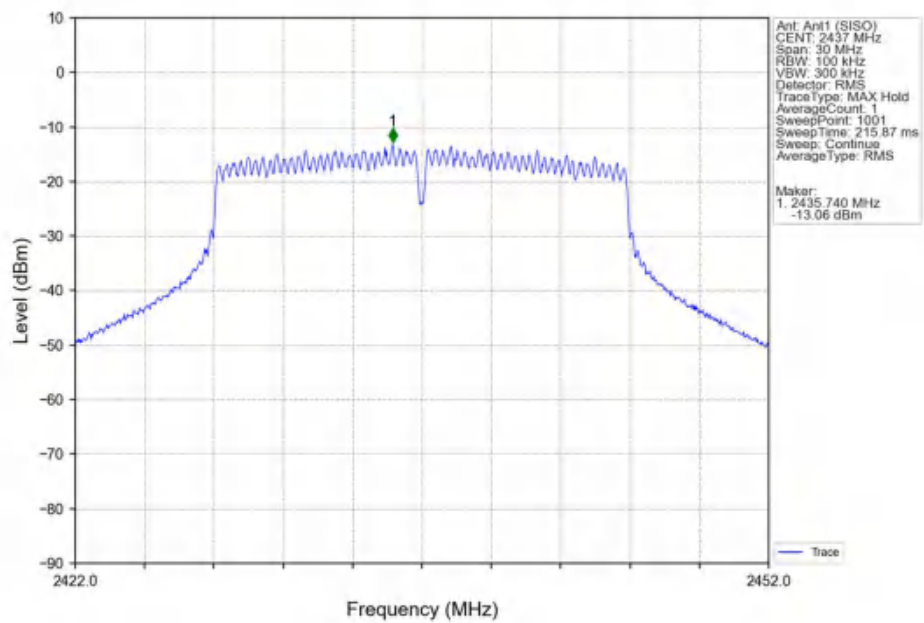
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



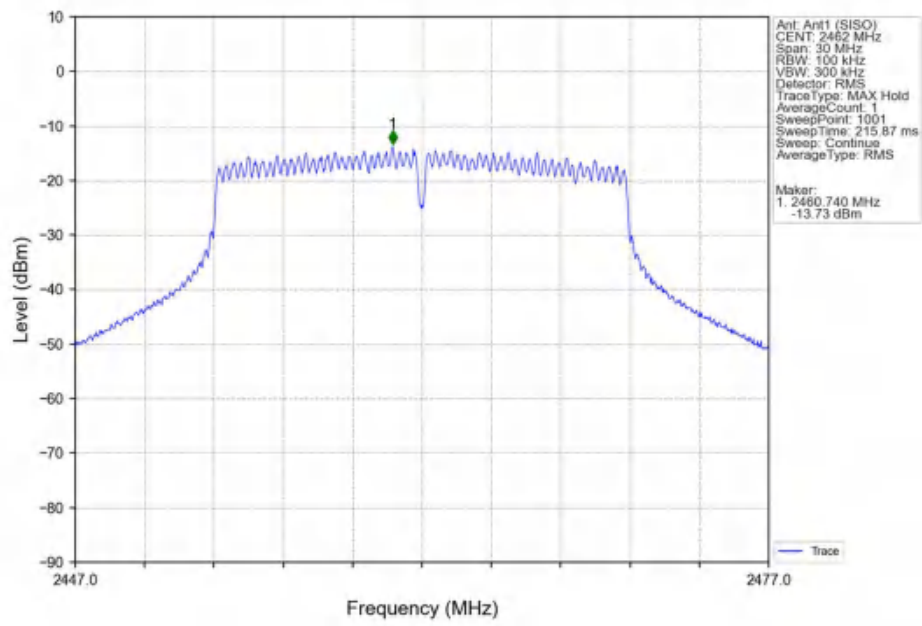
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

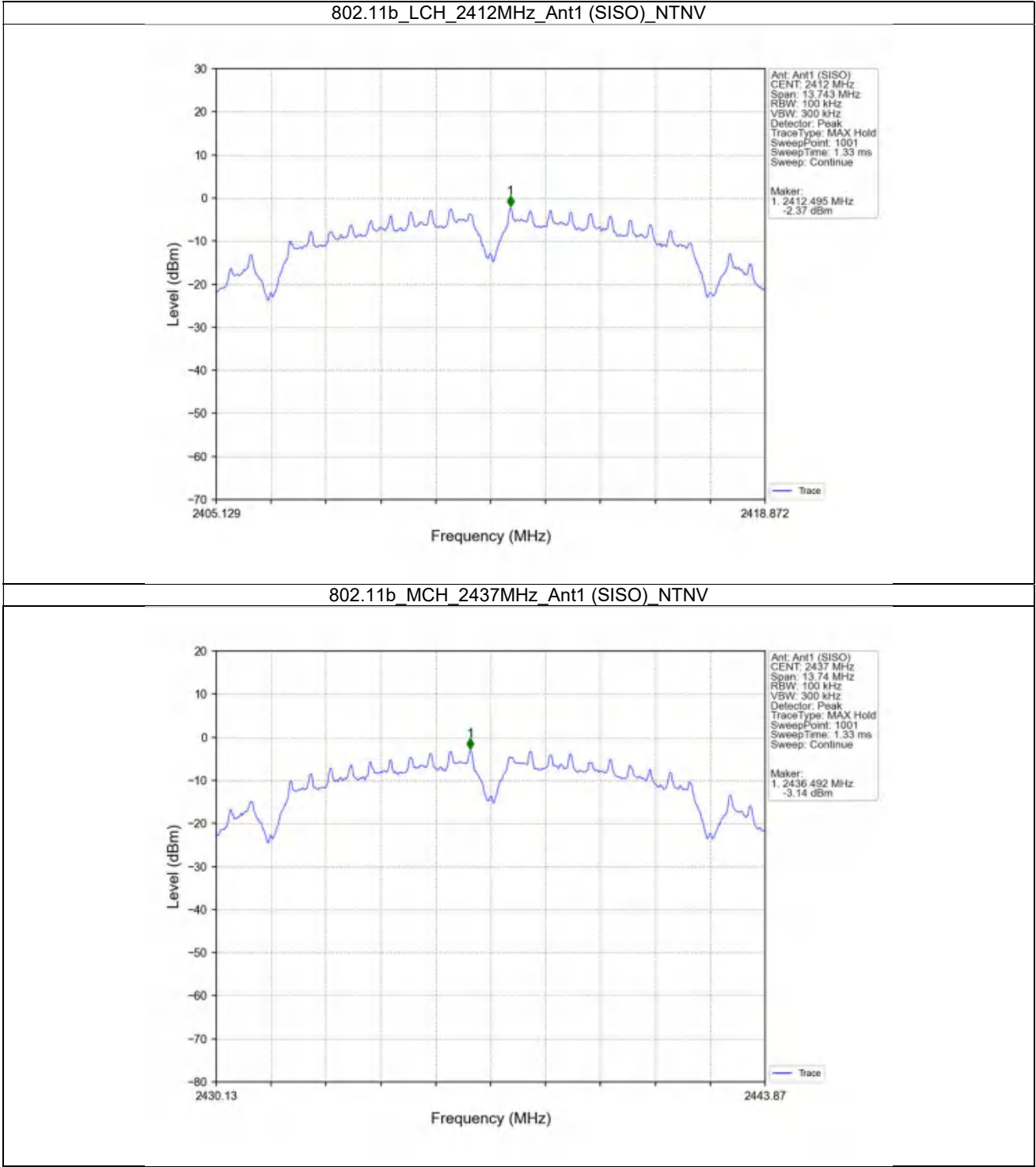
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-2.37
		2437	1	-3.14
		2462	1	-3.13
802.11g	SISO	2412	1	-7.80
		2437	1	-7.41
		2462	1	-7.58
802.11n (HT20)	SISO	2412	1	-6.04
		2437	1	-5.94
		2462	1	-6.45

5.1.2 CSE

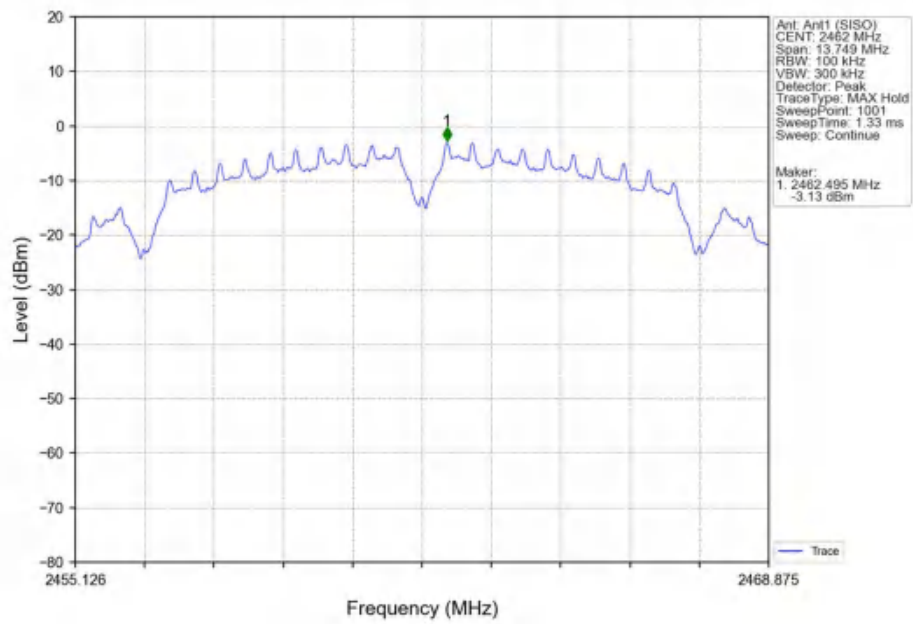
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-2.37	-32.37	Pass
		2437	1	-3.14	-33.14	Pass
		2462	1	-3.13	-33.13	Pass
802.11g	SISO	2412	1	-7.80	-37.80	Pass
		2437	1	-7.41	-37.41	Pass
		2462	1	-7.58	-37.58	Pass
802.11n (HT20)	SISO	2412	1	-6.04	-36.04	Pass
		2437	1	-5.94	-35.94	Pass
		2462	1	-6.45	-36.45	Pass

5.2 Test Graph

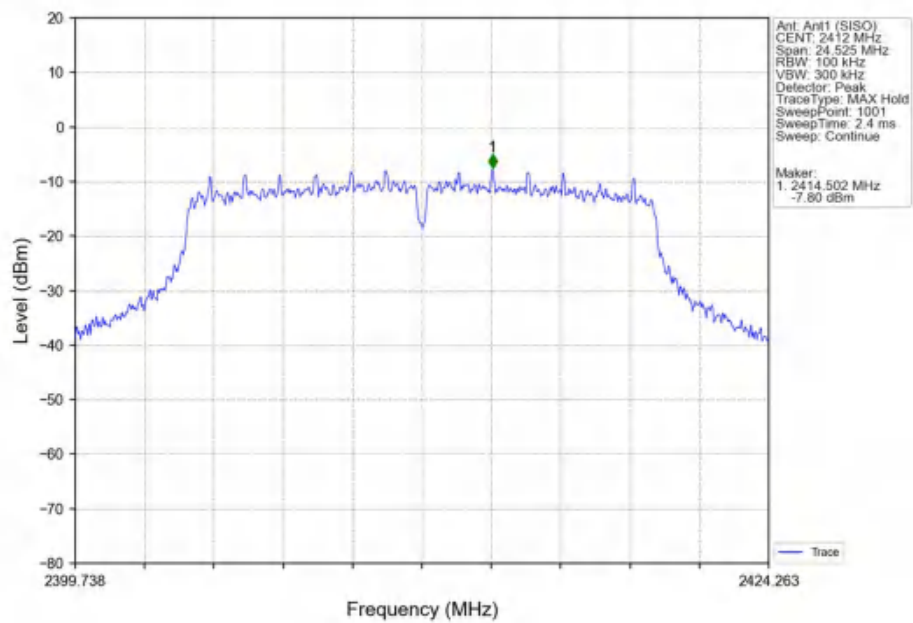
5.2.1 Ref



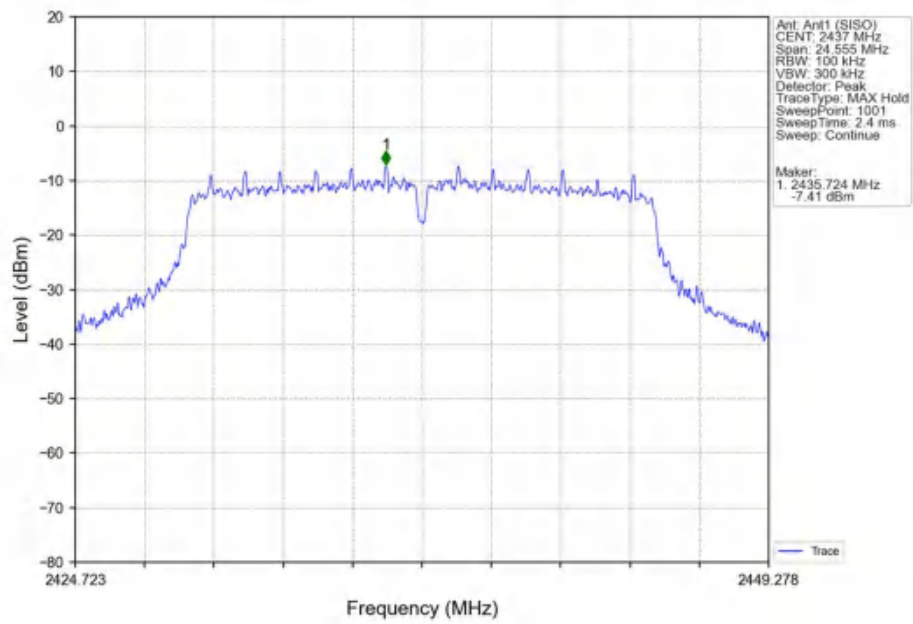
802.11b_HCH_2462MHz_Ant1 (SISO) NTN



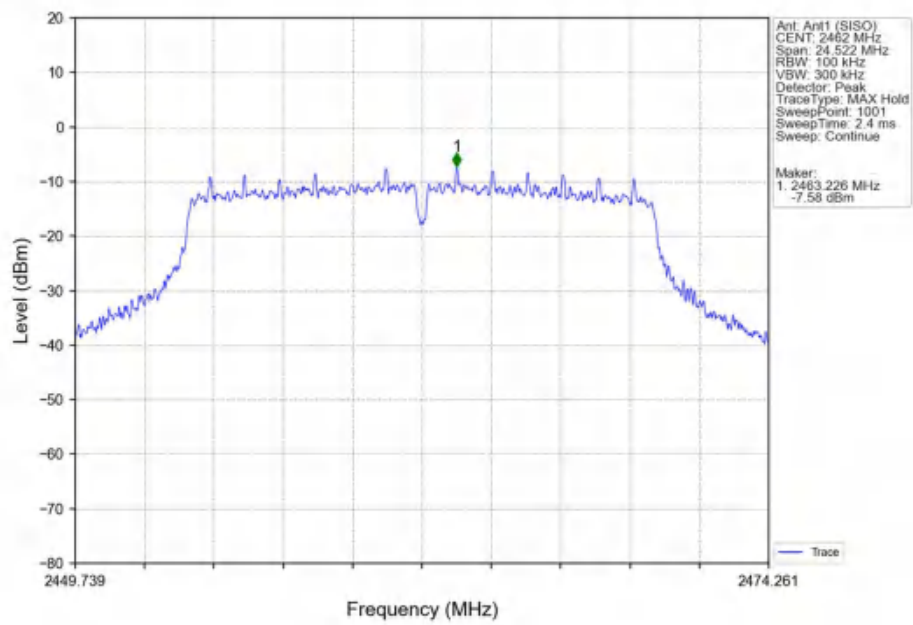
802.11g_LCH_2412MHz_Ant1 (SISO) NTN



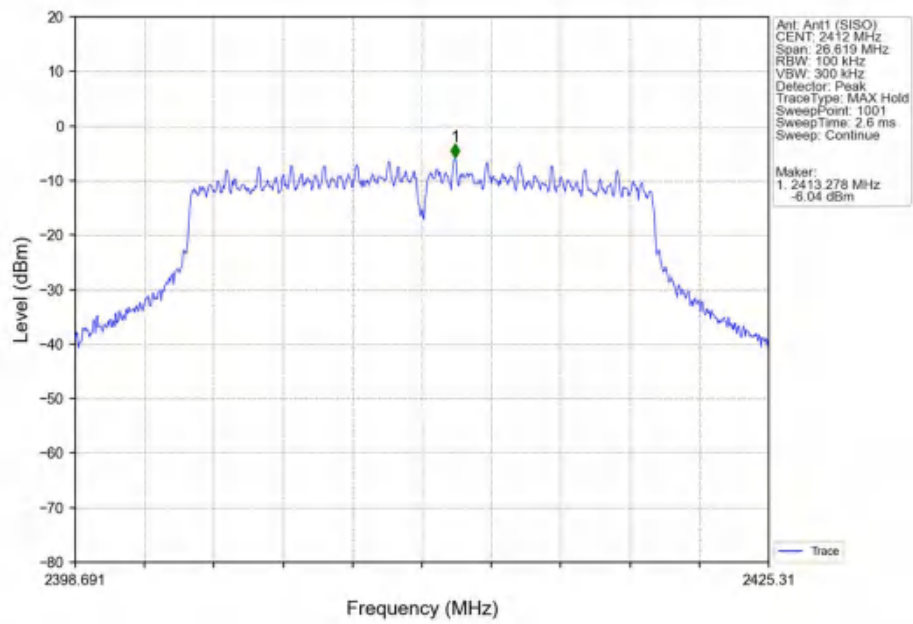
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



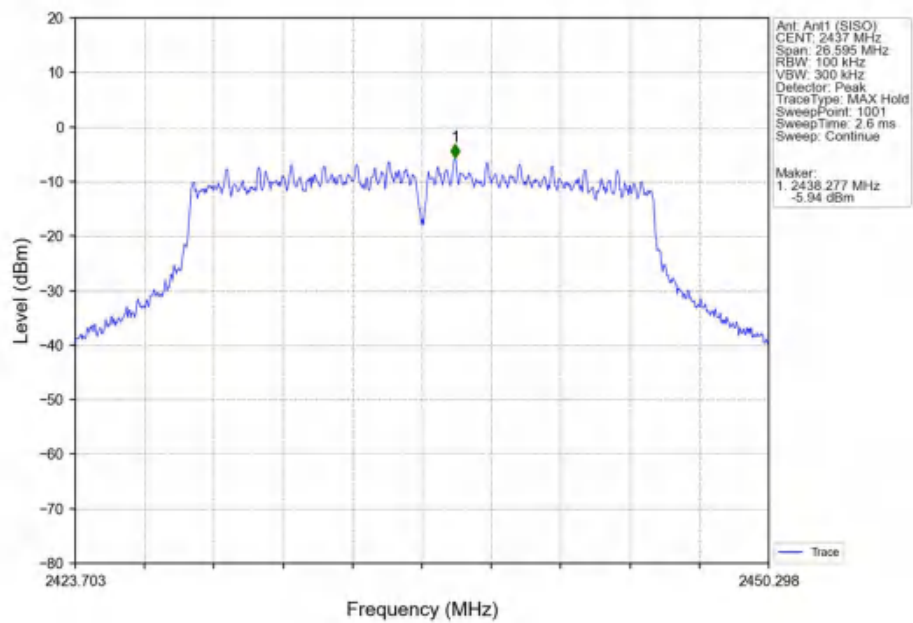
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



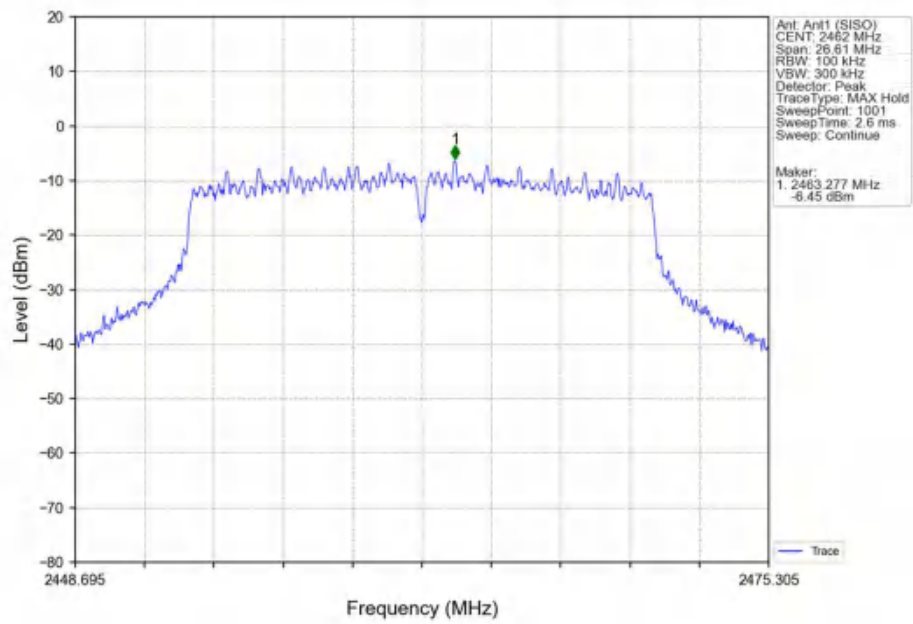
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

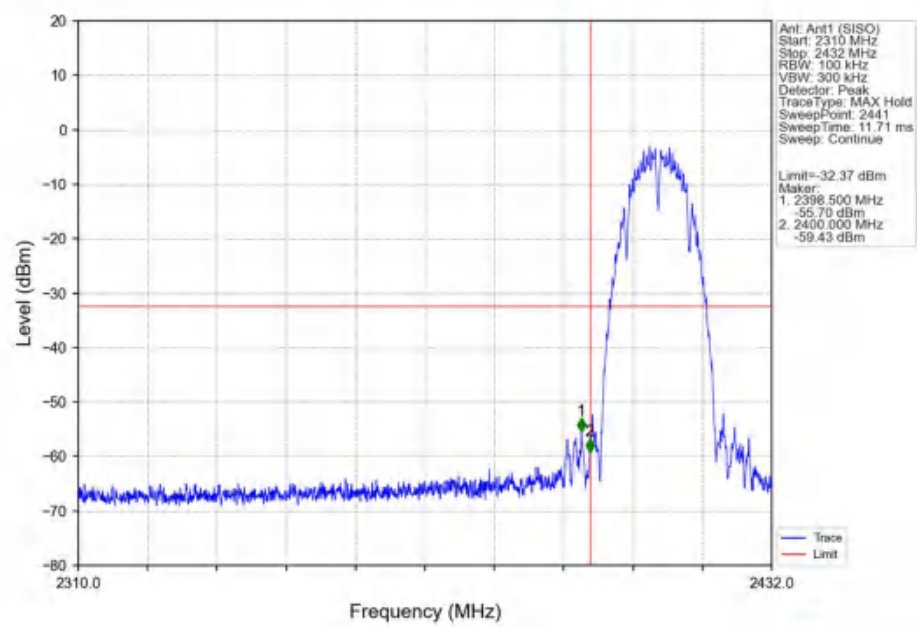


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

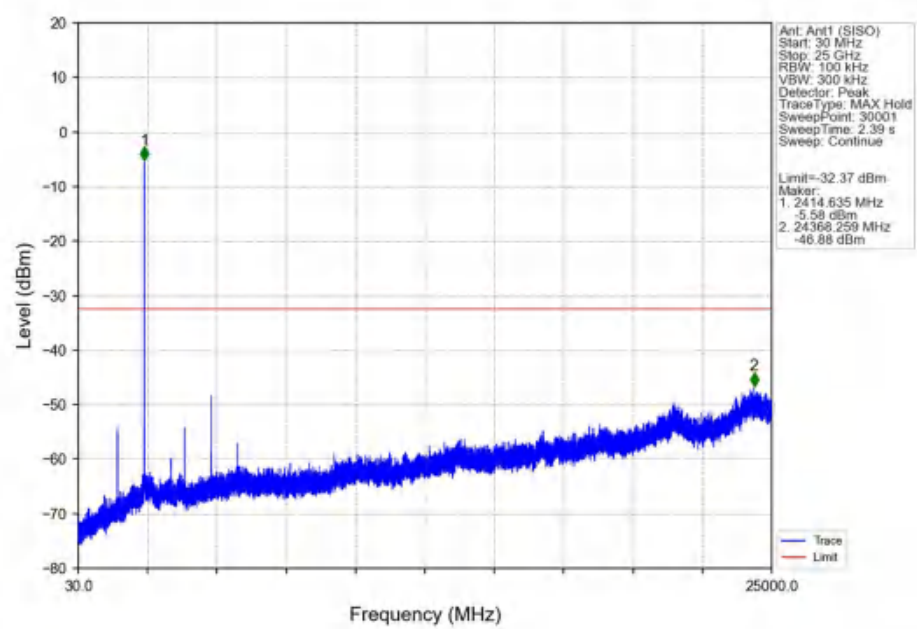


5.2.2 CSE

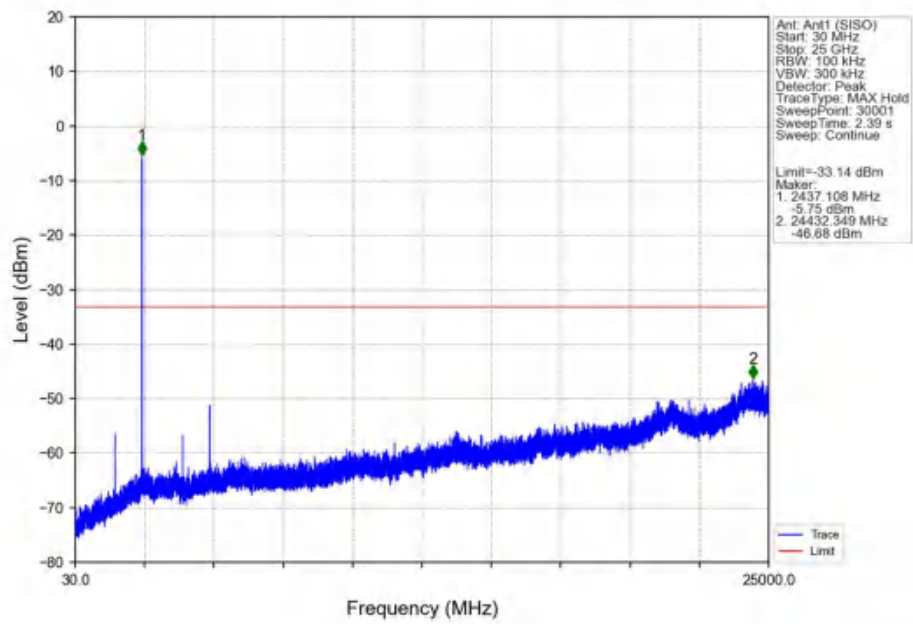
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



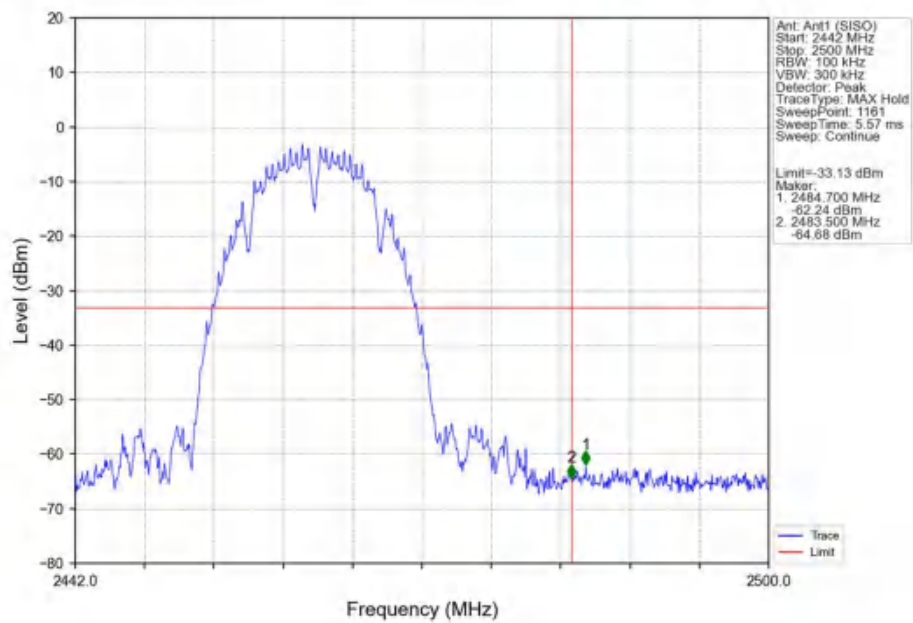
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



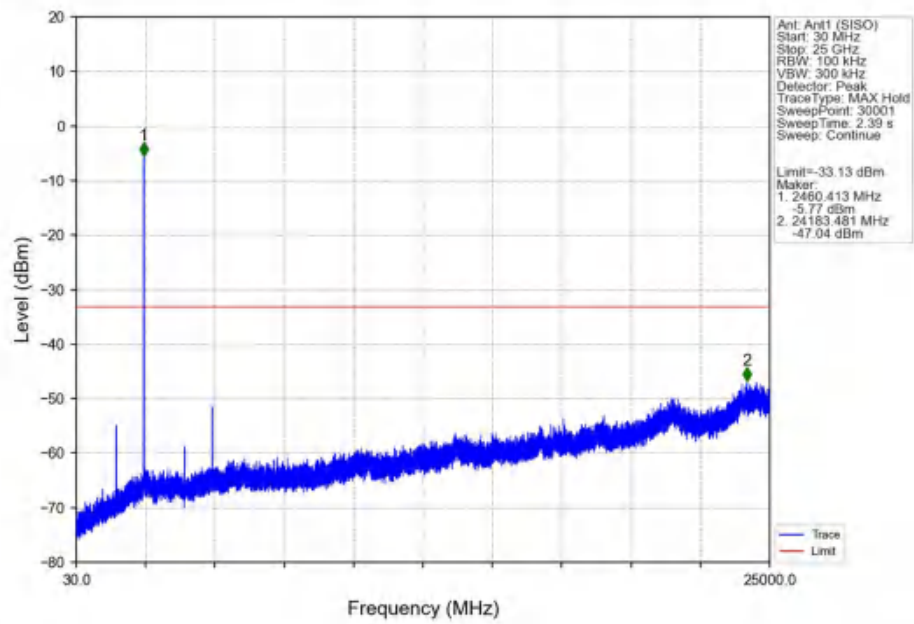
802.11b MCH 2437MHz_Ant1 (SISO) NTN



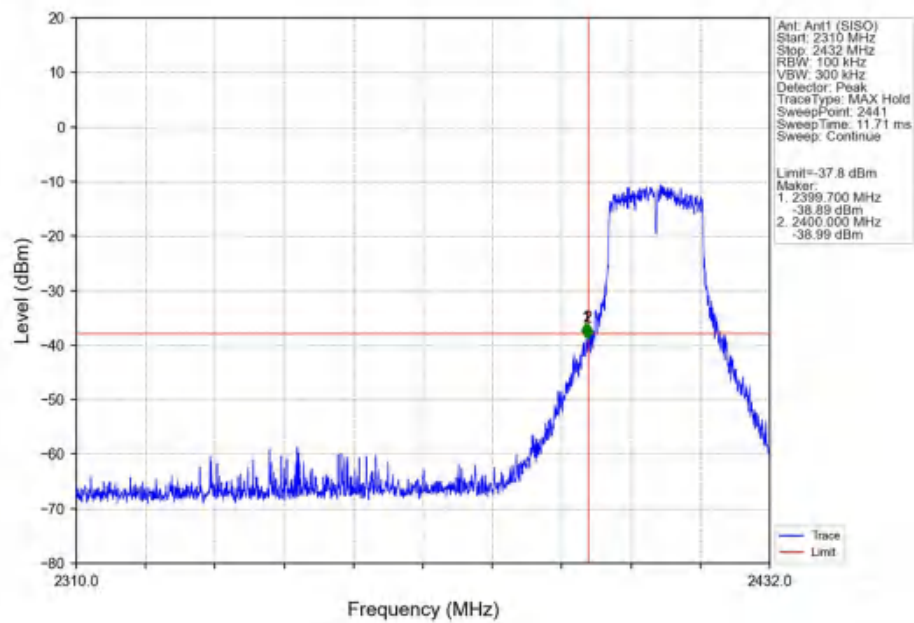
802.11b HCH 2462MHz_Ant1 (SISO) NTN



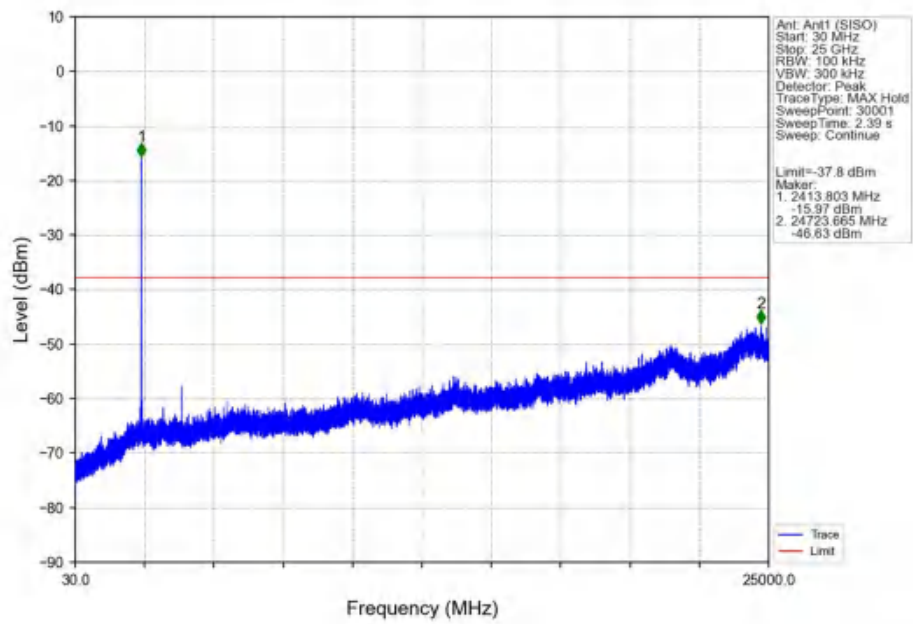
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



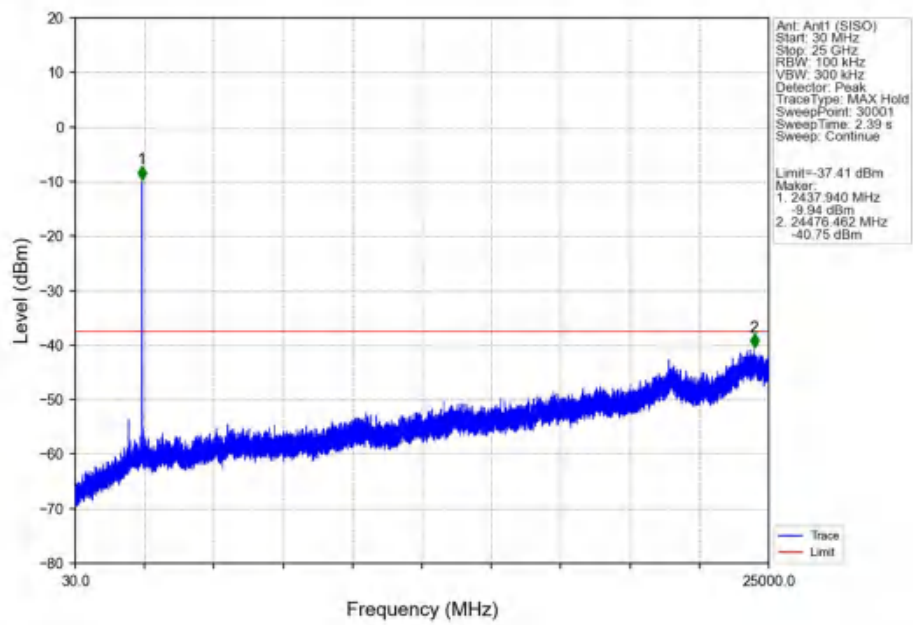
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



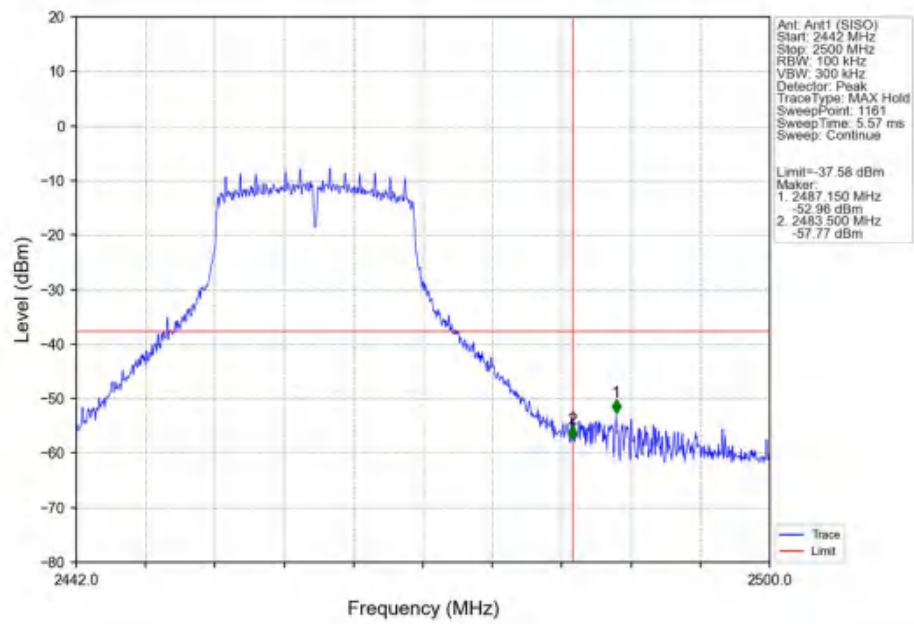
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



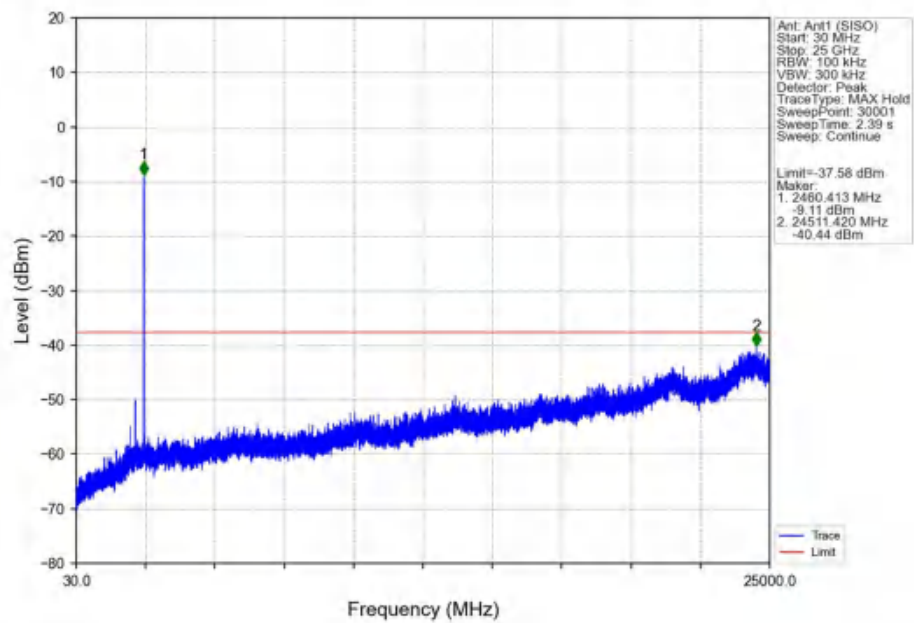
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



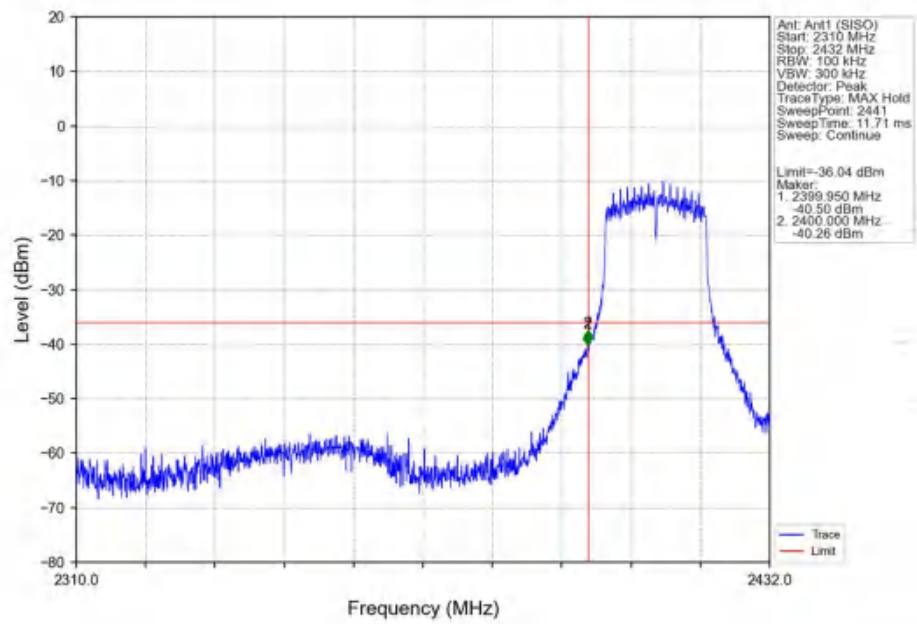
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



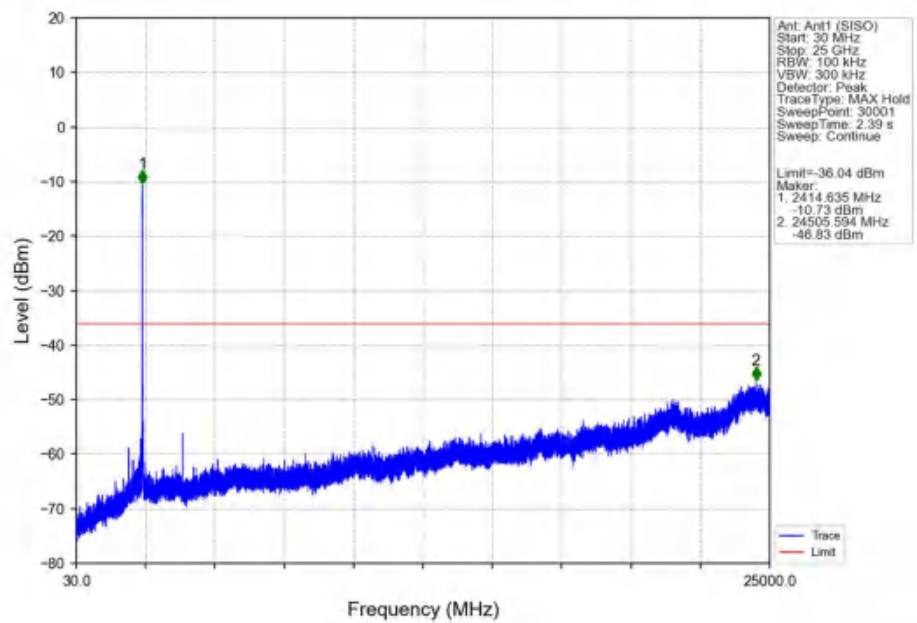
802.11g_HCH_2462MHz_Ant1 (SISO) NTN



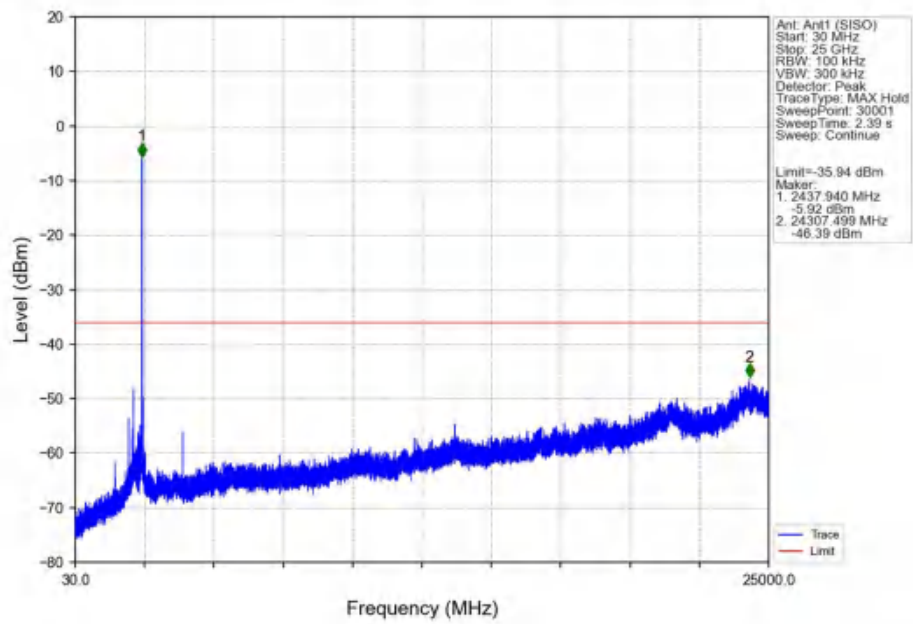
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



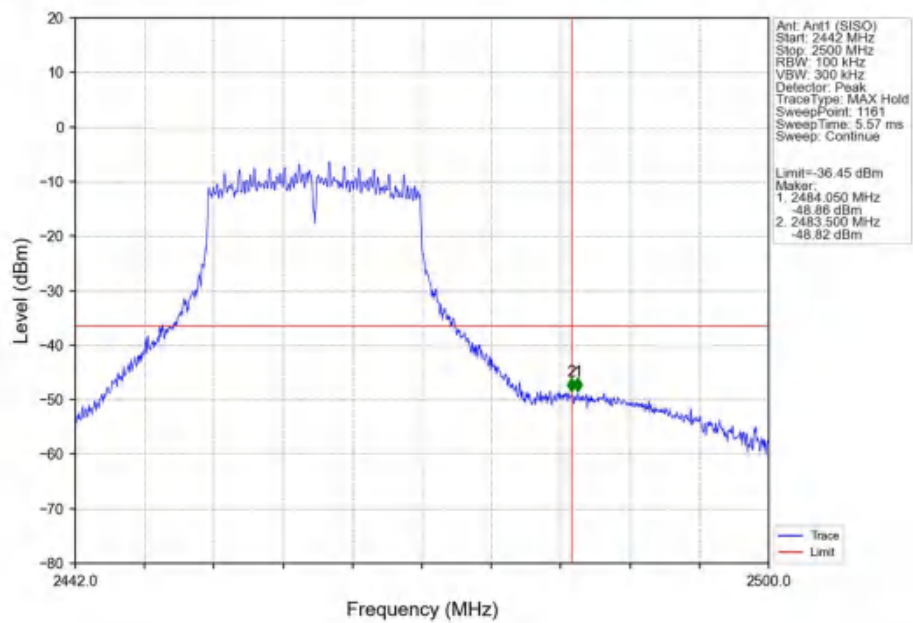
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

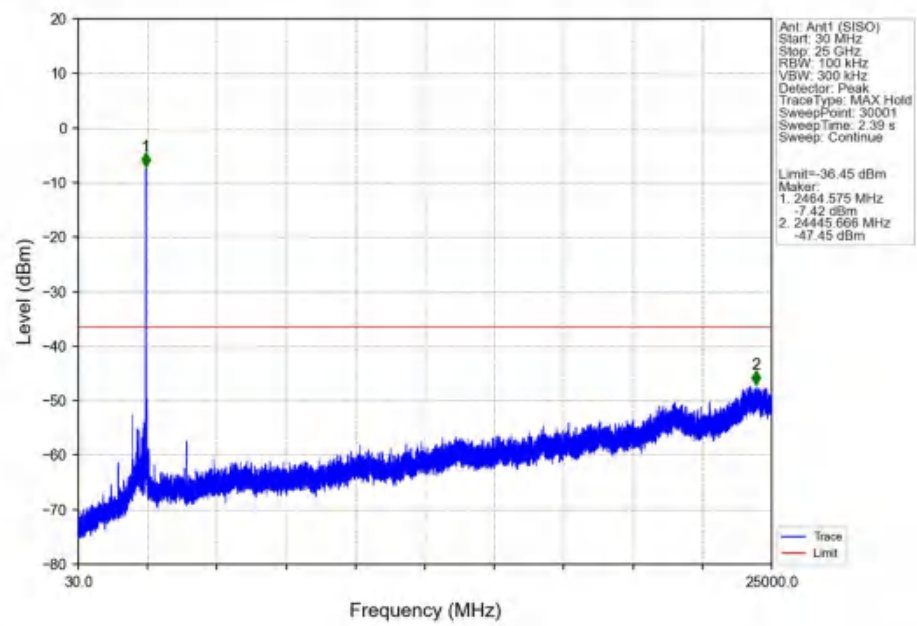


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





6. Form731

6.1 Test Result

6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0038	5.81