

Appendix RF test data for WIFI2.4G

1. Duty Cycle

1.1 Test Result

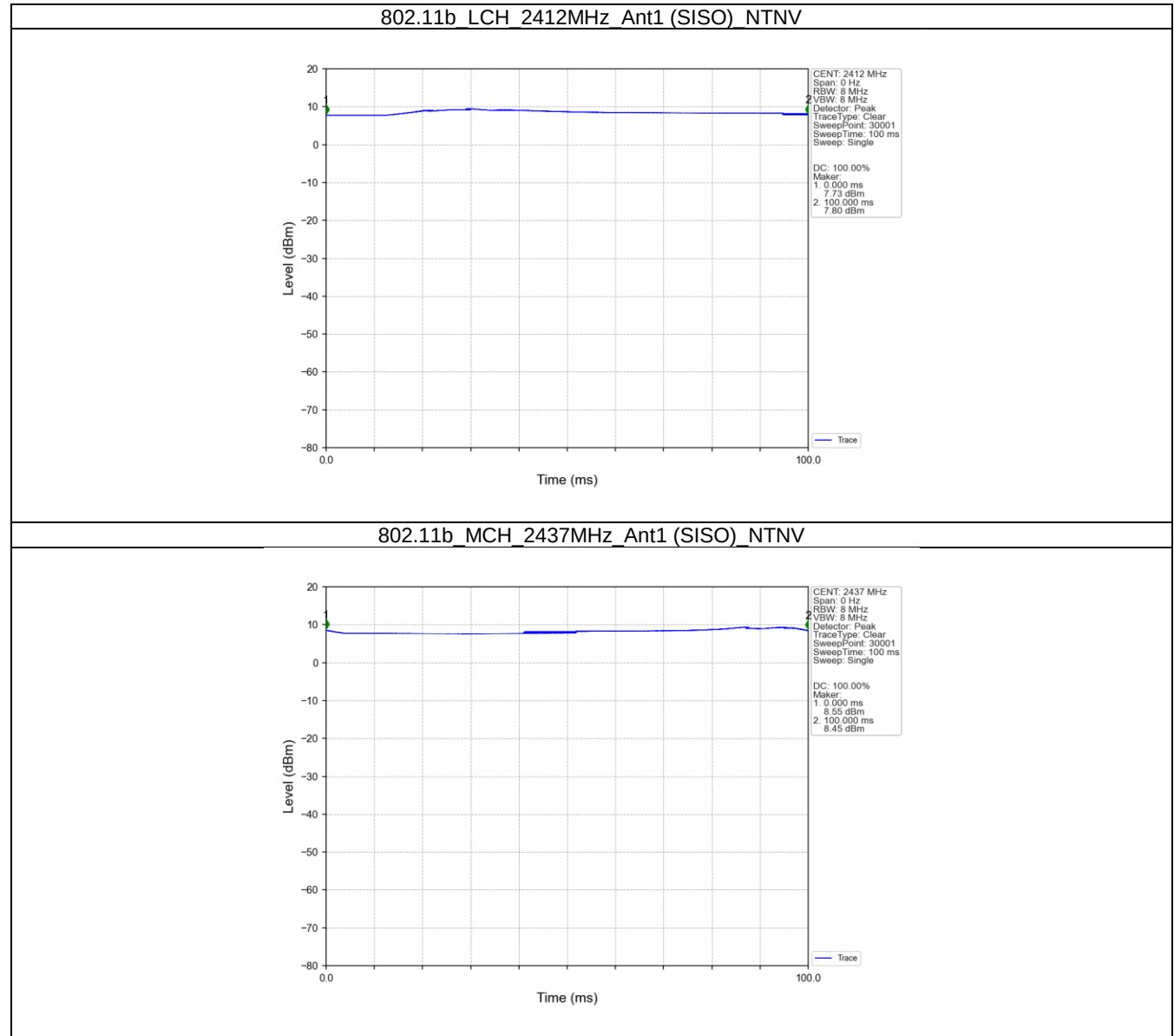
1.1.1 Ant1

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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00



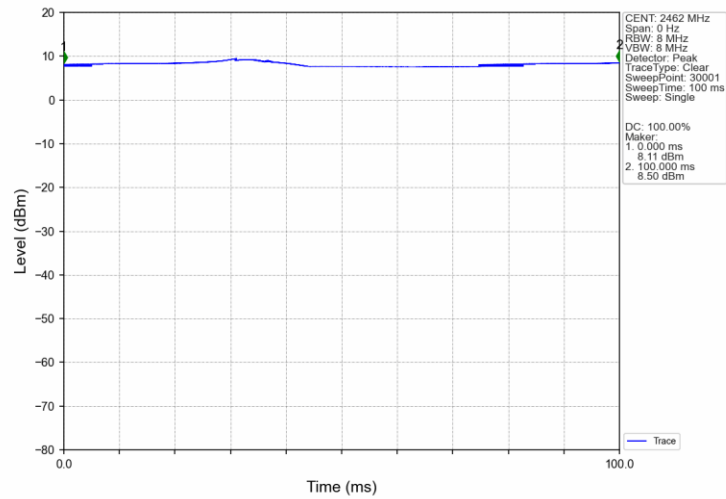
1.2 Test Graph

1.2.1 Ant1

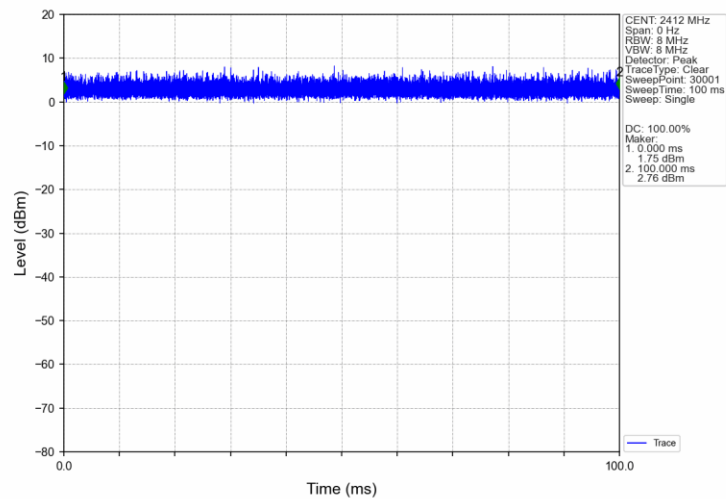




802.11b HCH 2462MHz_Ant1 (SISO) NTN

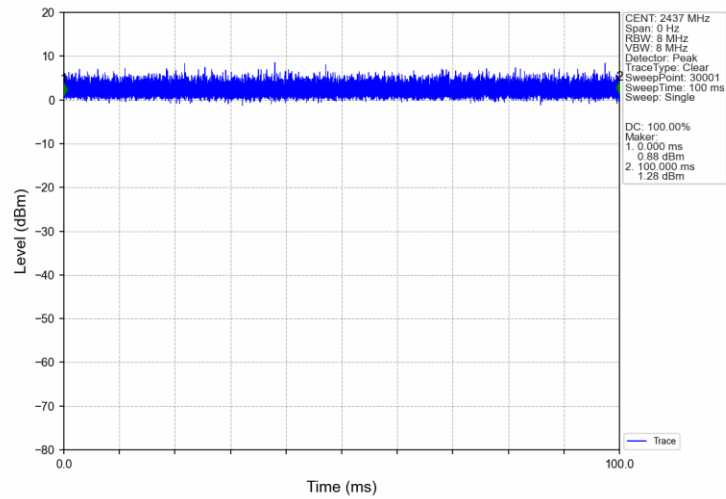


802.11g LCH 2412MHz_Ant1 (SISO) NTN

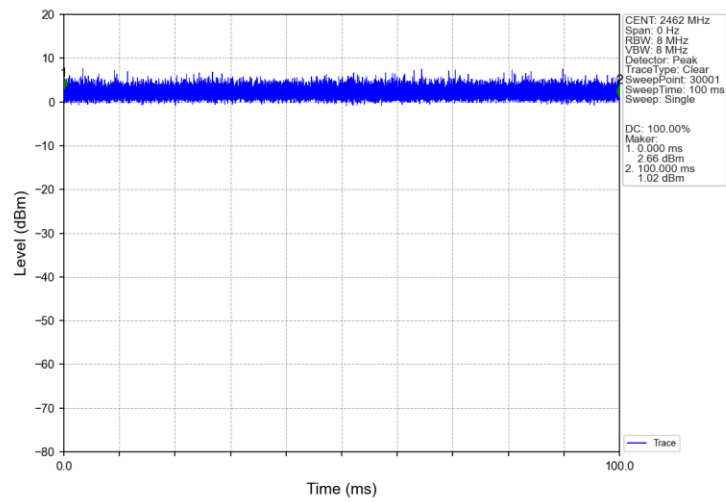




802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

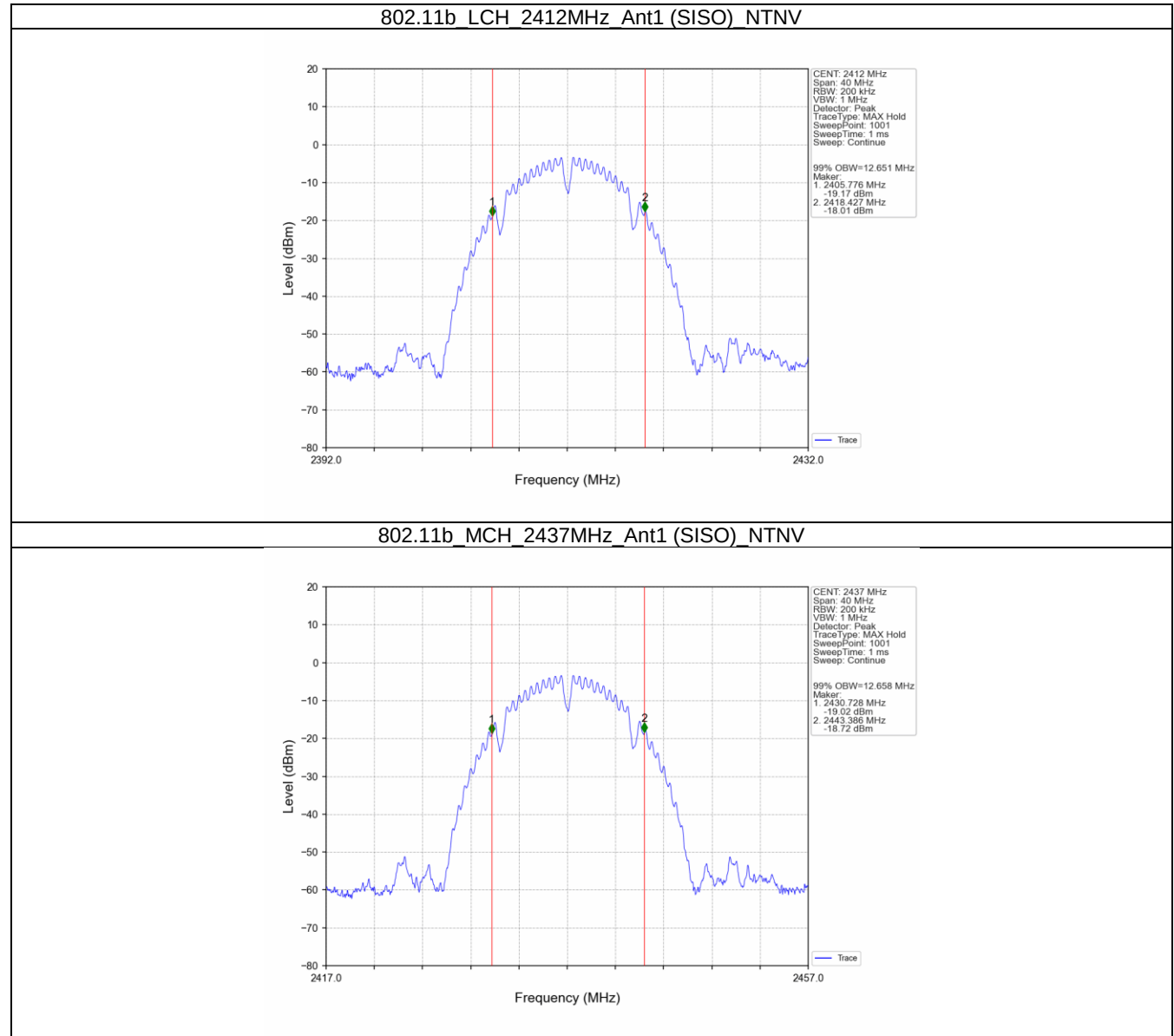
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.651	/	Pass
		2437	1	12.658	/	Pass
		2462	1	12.733	/	Pass
802.11g	SISO	2412	1	16.629	/	Pass
		2437	1	16.705	/	Pass
		2462	1	16.753	/	Pass

2.1.2 6dB BW

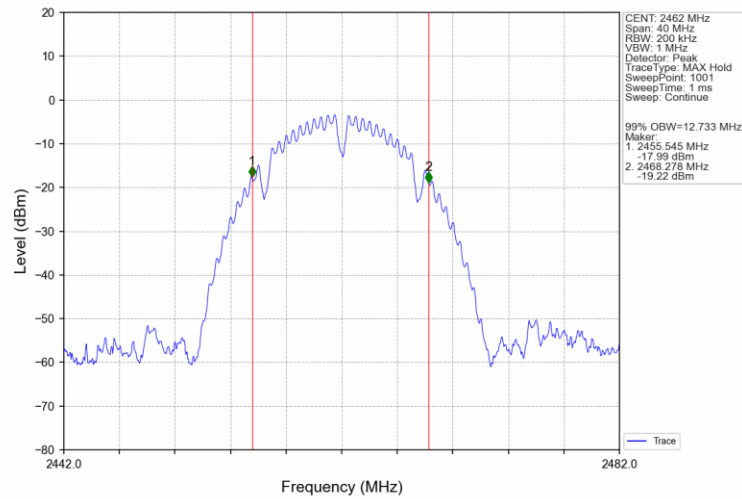
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.154	≥ 0.5	Pass
		2437	1	8.157	≥ 0.5	Pass
		2462	1	8.155	≥ 0.5	Pass
802.11g	SISO	2412	1	16.366	≥ 0.5	Pass
		2437	1	16.490	≥ 0.5	Pass
		2462	1	16.571	≥ 0.5	Pass

2.2 Test Graph

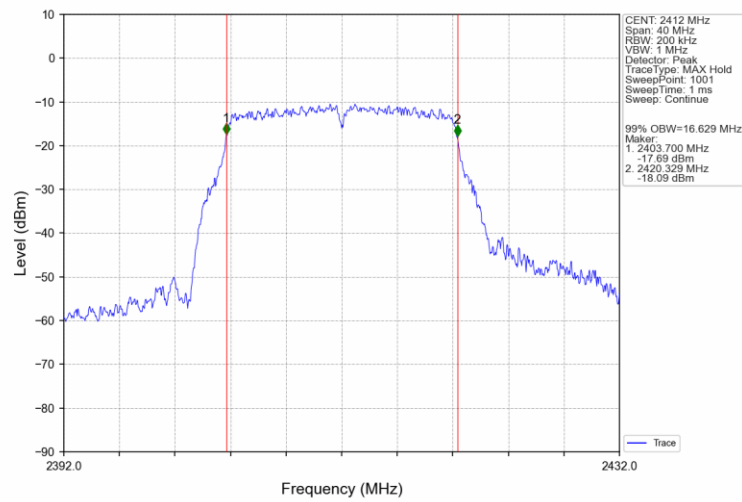
2.2.1 OBW



802.11b HCH 2462MHz_Ant1 (SISO) NTNv

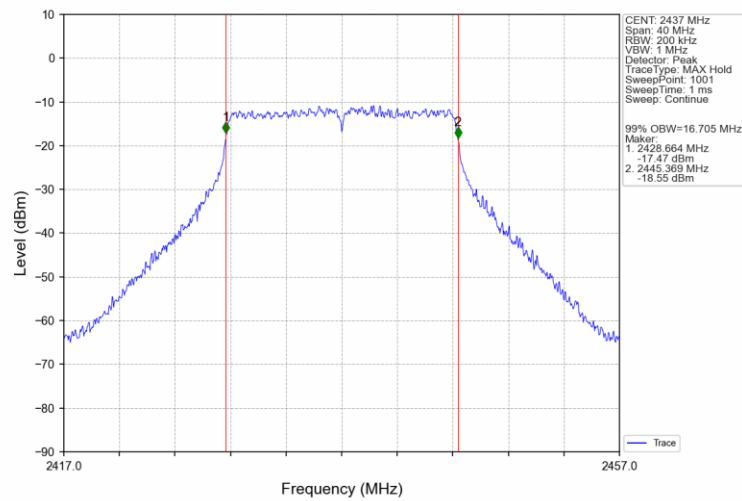


802.11g LCH 2412MHz_Ant1 (SISO) NTNv

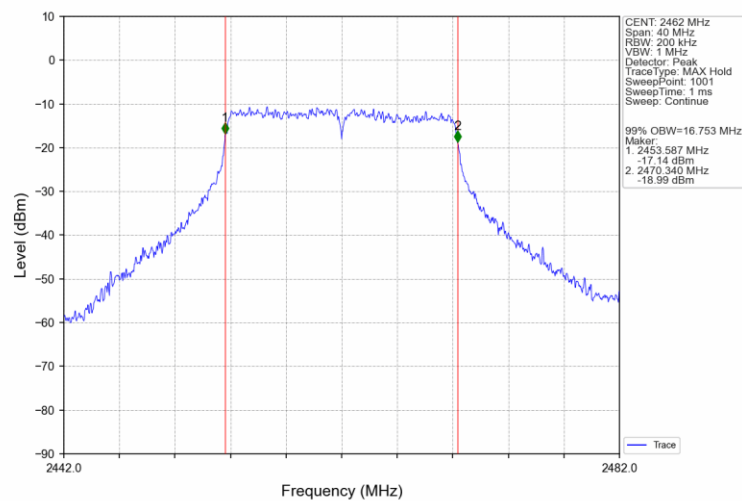




802.11g_MCH_2437MHz_Ant1 (SISO) NTNv

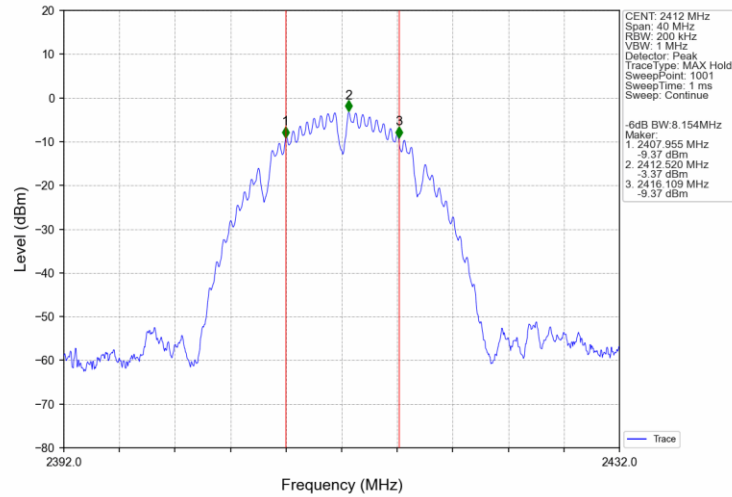


802.11g_HCH_2462MHz_Ant1 (SISO) NTNv

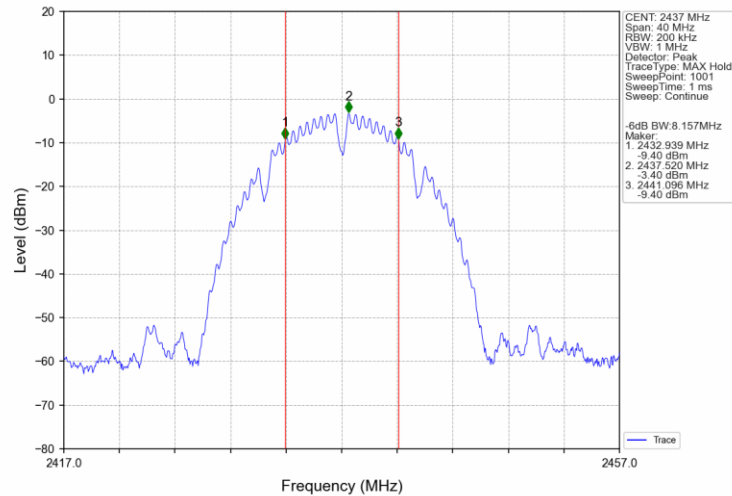


2.2.2 6dB BW

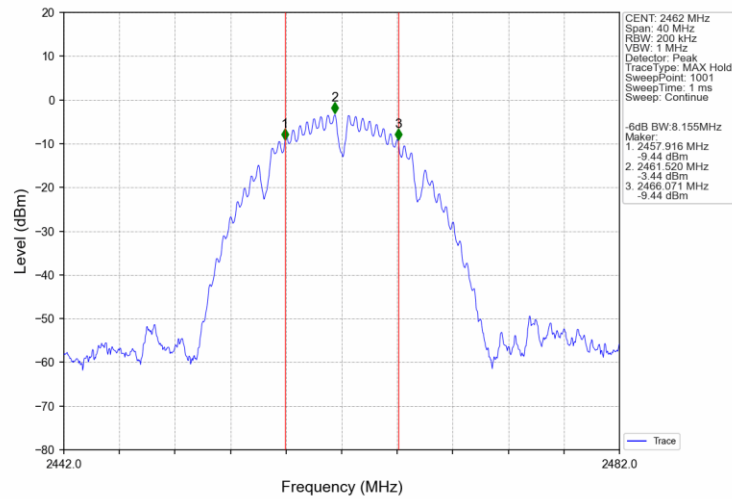
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



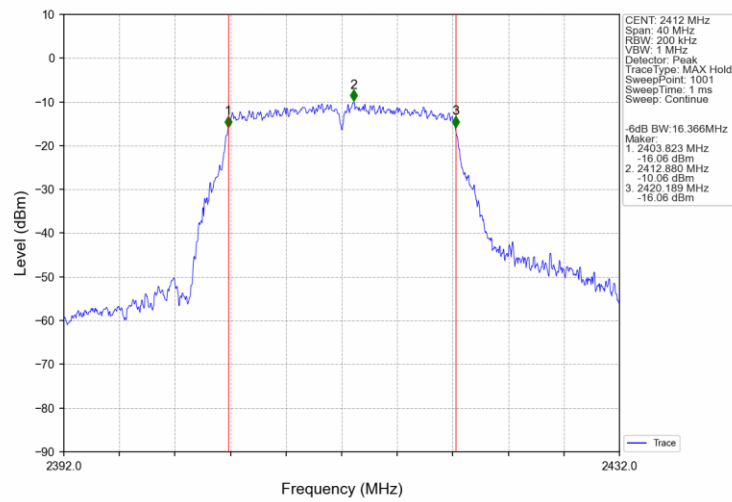
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b HCH 2462MHz_Ant1 (SISO) NTNv

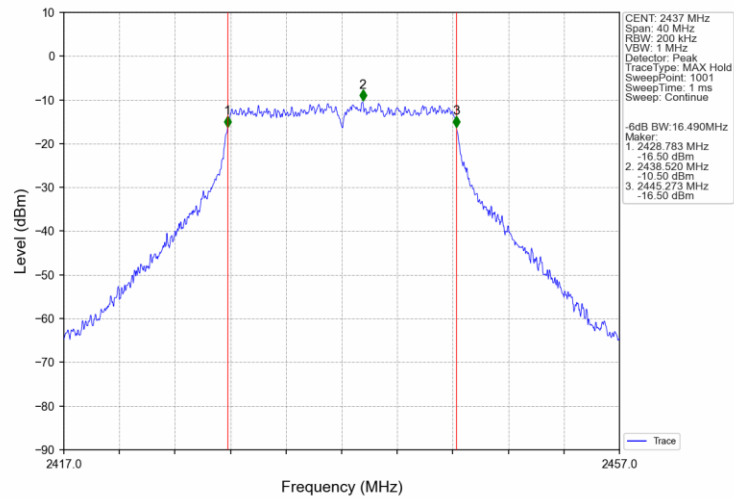


802.11g LCH 2412MHz_Ant1 (SISO) NTNv

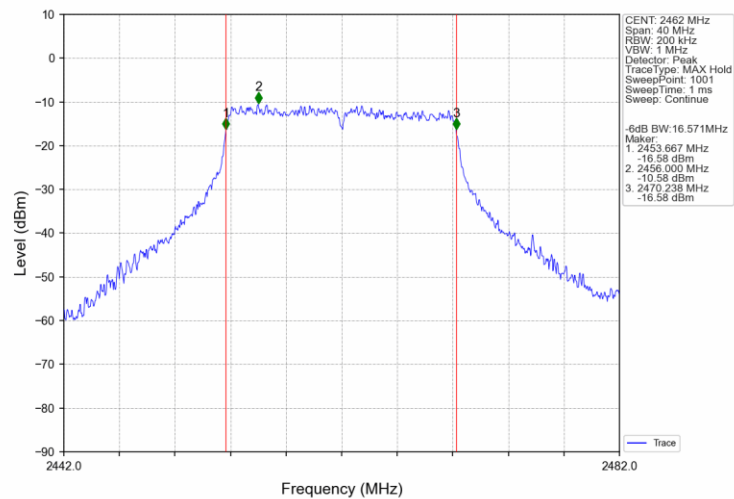




802.11g MCH 2437MHz Ant1 (SISO) NTNv



802.11g HCH 2462MHz Ant1 (SISO) NTNv





3. Maximum Conducted Output Power

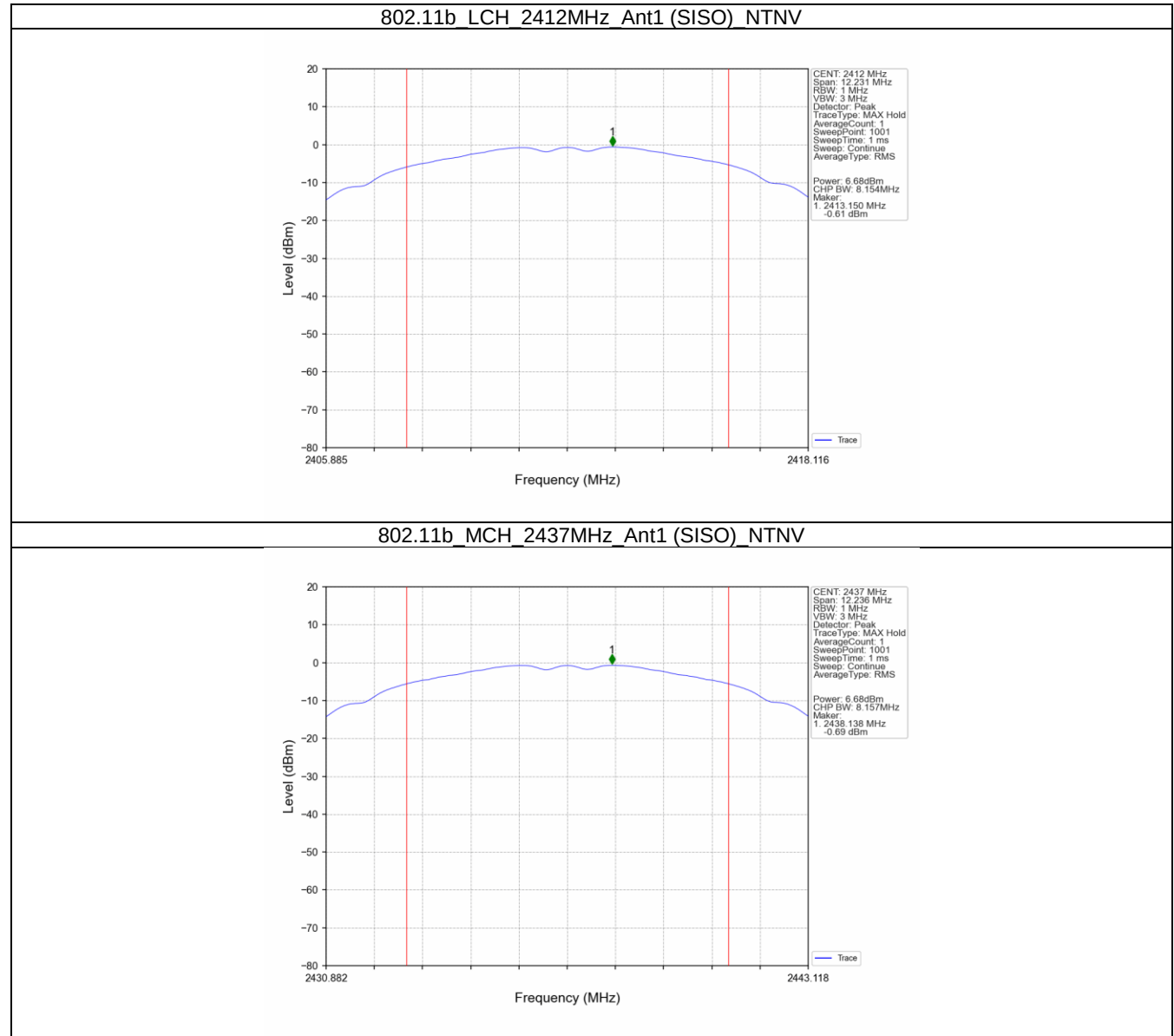
3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	6.68	<=30	Pass
		2437	6.68	<=30	Pass
		2462	6.62	<=30	Pass
802.11g	SISO	2412	7.28	<=30	Pass
		2437	7.12	<=30	Pass
		2462	7.11	<=30	Pass
Note1: Antenna Gain: Ant1: 3.64dBi;					

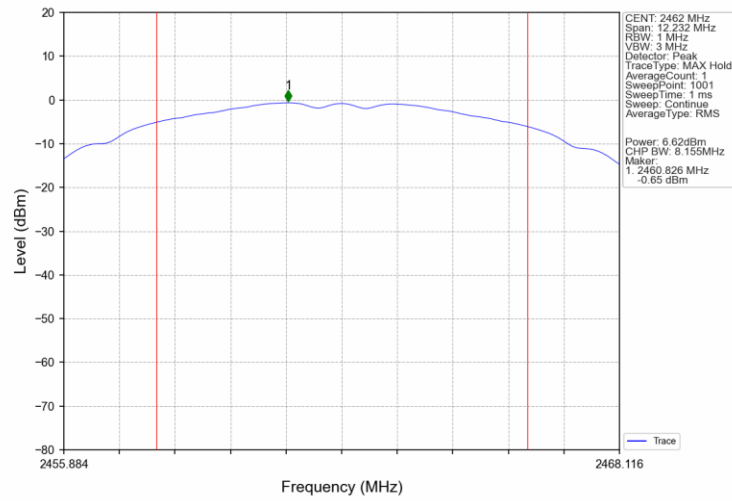
3.2 Test Graph

3.2.1 Power

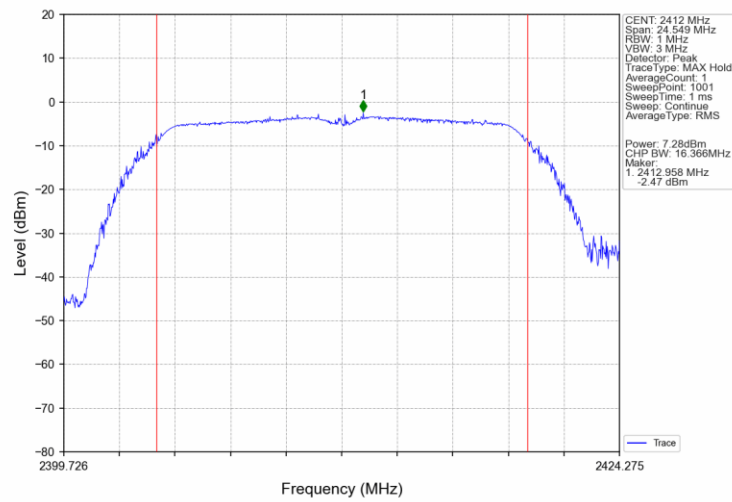




802.11b HCH 2462MHz Ant1 (SISO) NTN

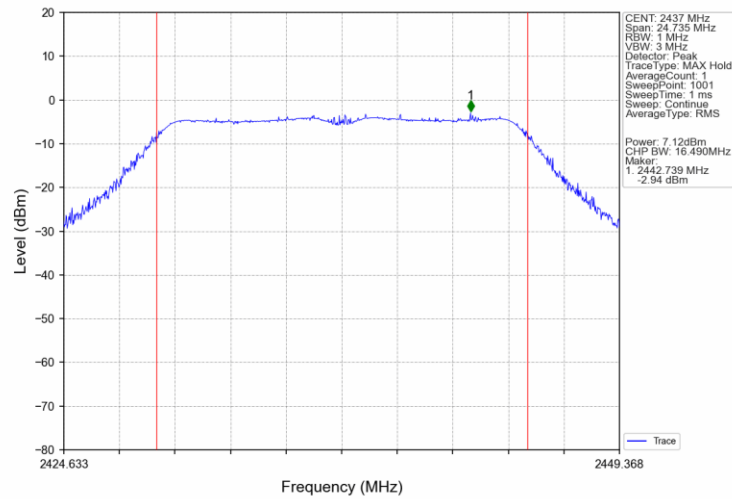


802.11g LCH 2412MHz Ant1 (SISO) NTN

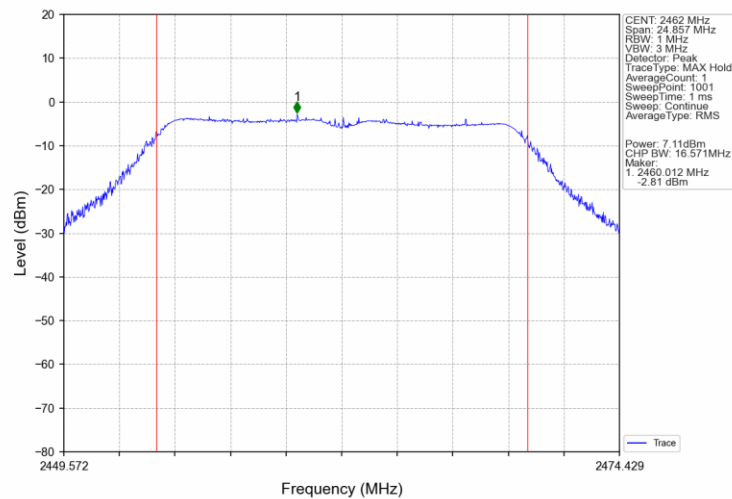




802.11g_MCH_2437MHz_Ant1 (SISO) NTN



802.11g_HCH_2462MHz_Ant1 (SISO) NTN



4. Maximum Power Spectral Density

4.1 Test Result

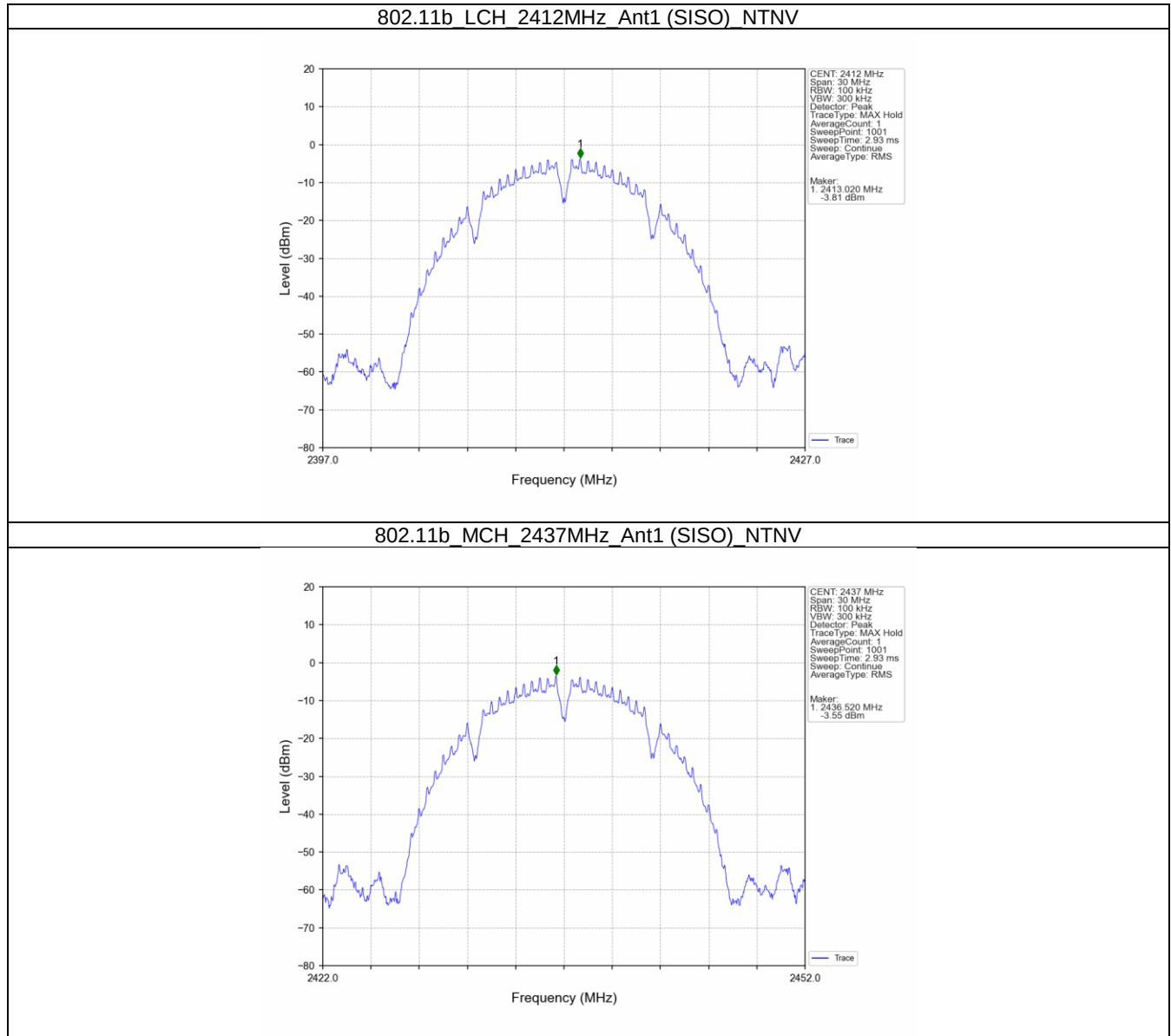
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
802.11b	SISO	2412	-3.81dBm/100kHz	<=8	Pass
		2437	-3.55dBm/100kHz	<=8	Pass
		2462	-3.71dBm/100kHz	<=8	Pass
802.11g	SISO	2412	-13.63dBm/100kHz	<=8	Pass
		2437	-14.15dBm/100kHz	<=8	Pass
		2462	-13.91dBm/100kHz	<=8	Pass

Note1: Antenna Gain: Ant1: 3.64dBi;

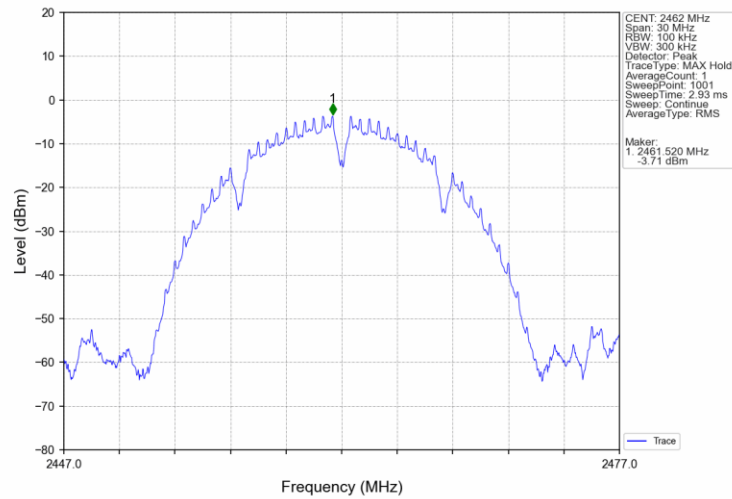
4.2 Test Graph

4.2.1 PSD

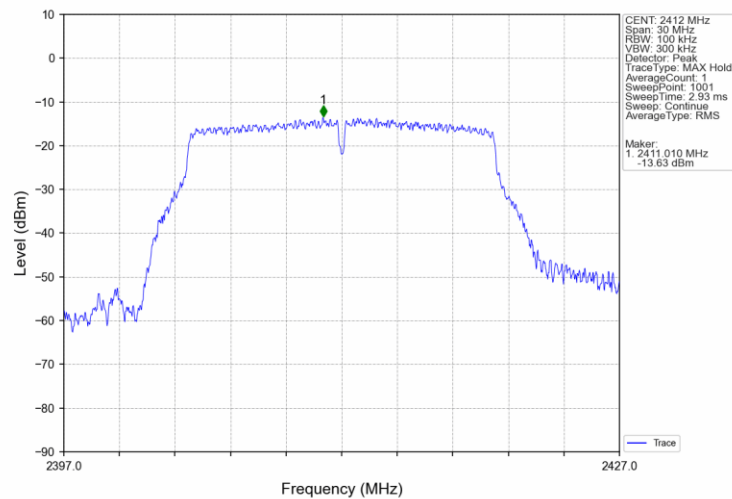




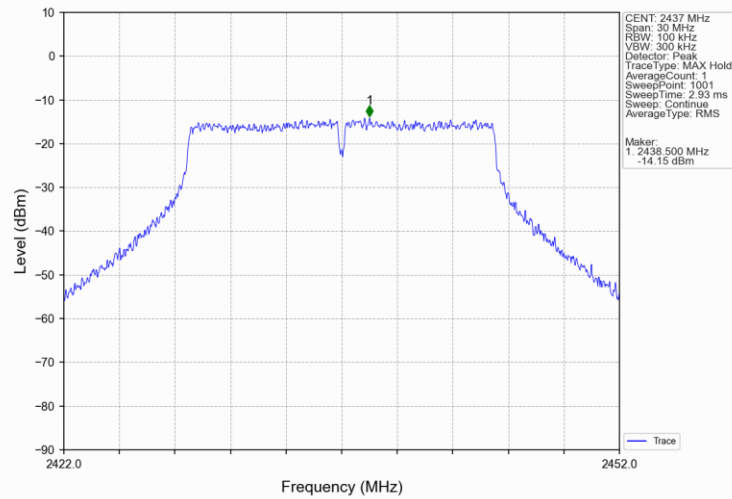
802.11b HCH 2462MHz_Ant1 (SISO)_NTNV



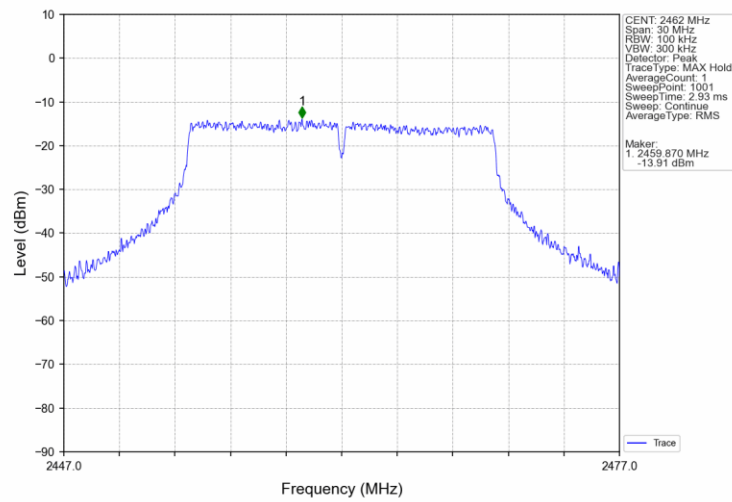
802.11g LCH 2412MHz_Ant1 (SISO)_NTNV



802.11g MCH 2437MHz_Ant1 (SISO) NTNv



802.11g HCH 2462MHz_Ant1 (SISO) NTNv



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

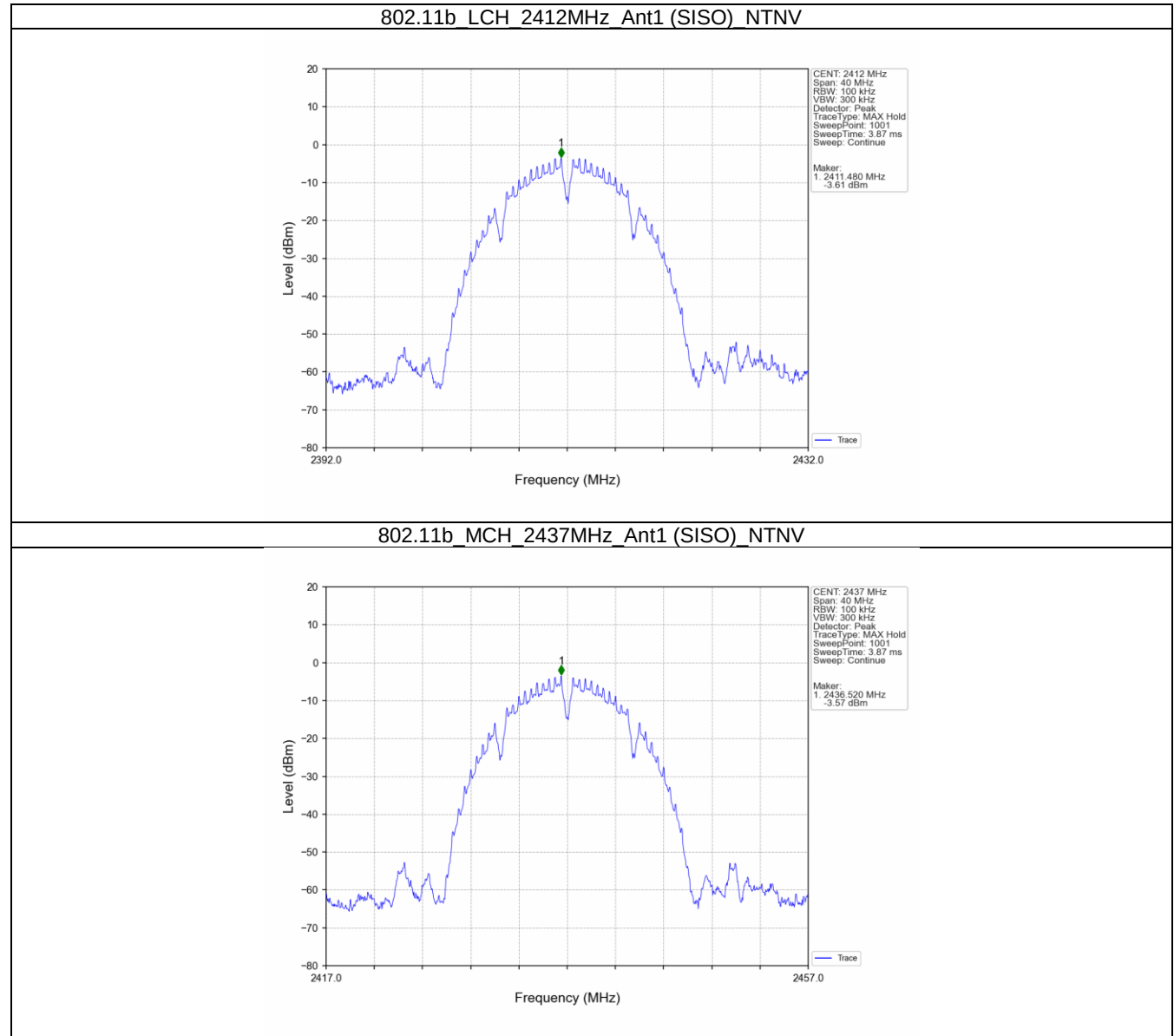
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-3.61
		2437	1	-3.57
		2462	1	-3.79
802.11g	SISO	2412	1	-13.42
		2437	1	-13.88
		2462	1	-13.88

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-3.61	-23.61	Pass
		2437	1	-3.57	-23.57	Pass
		2462	1	-3.79	-23.79	Pass
802.11g	SISO	2412	1	-13.42	-33.42	Pass
		2437	1	-13.88	-33.88	Pass
		2462	1	-13.88	-33.88	Pass

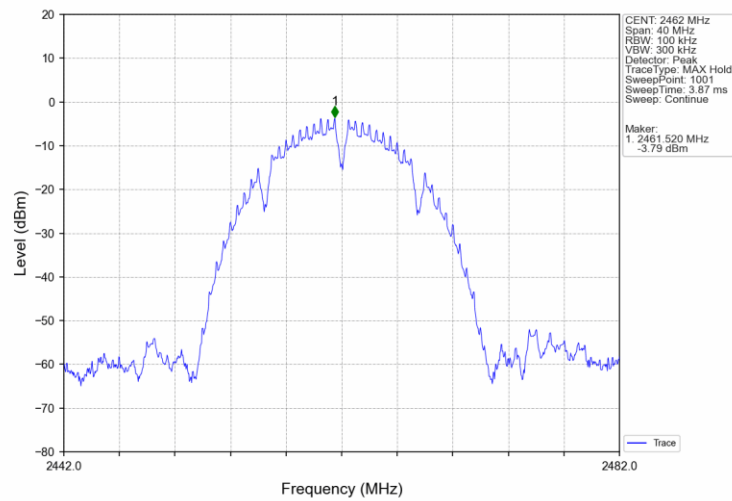
5.2 Test Graph

5.2.1 Ref

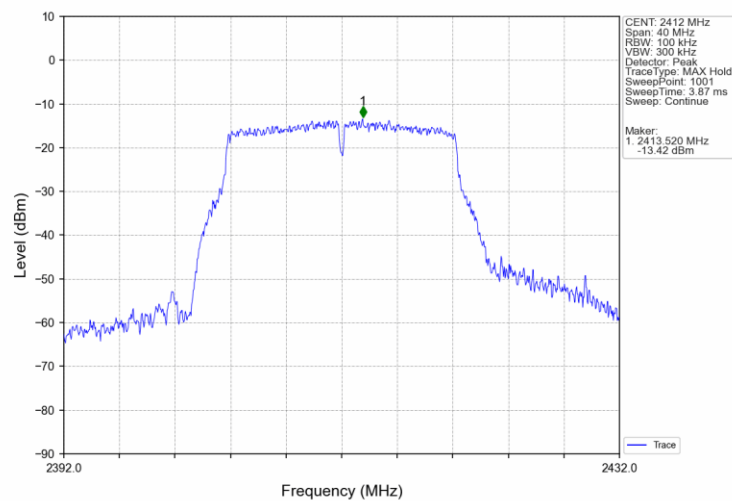




802.11b HCH 2462MHz_Ant1 (SISO) NTNv

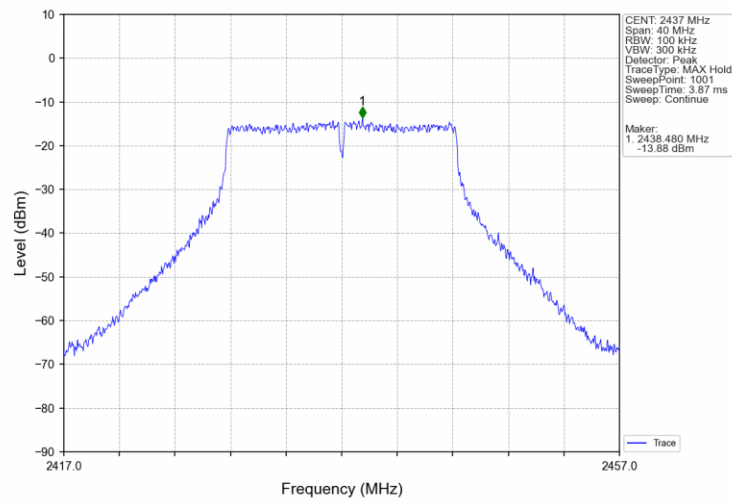


802.11g LCH 2412MHz_Ant1 (SISO) NTNv

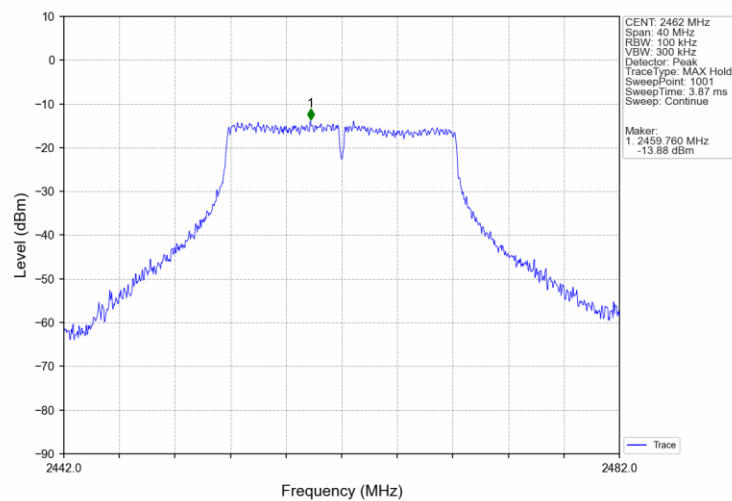




802.11g_MCH_2437MHz_Ant1 (SISO) NTNv

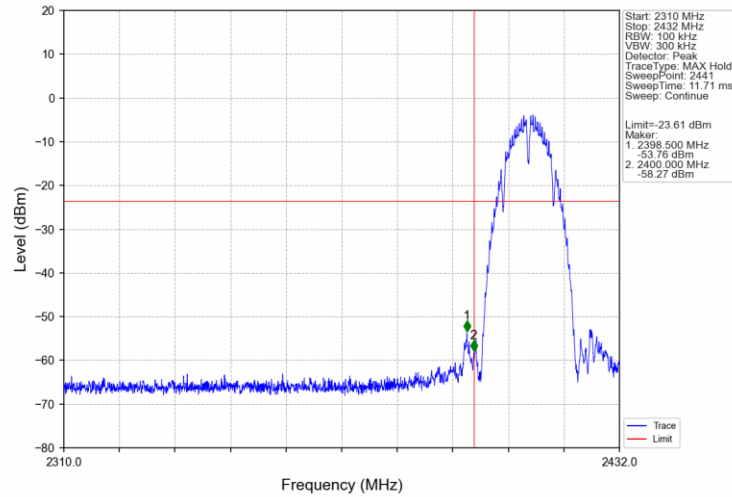


802.11g_HCH_2462MHz_Ant1 (SISO) NTNv

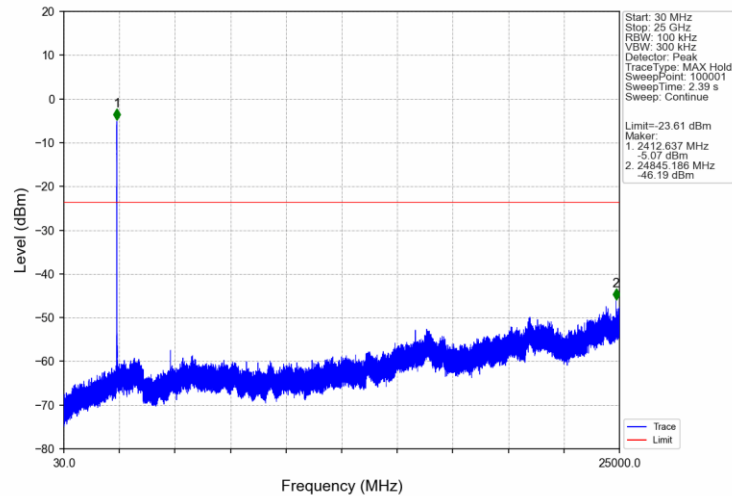


5.2.2 CSE

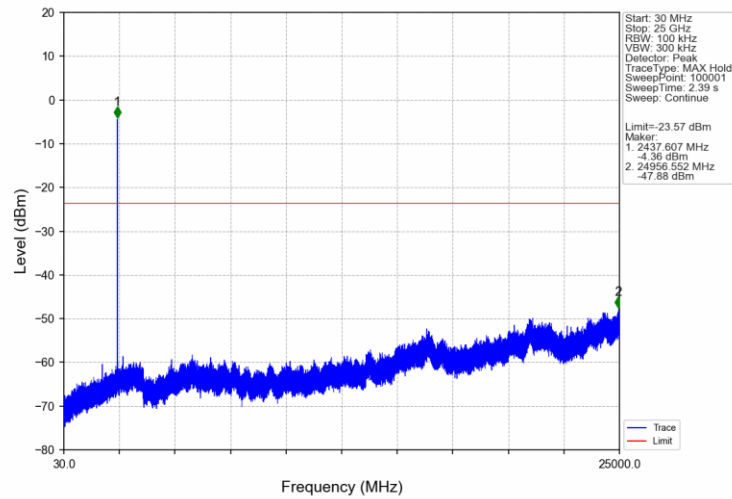
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



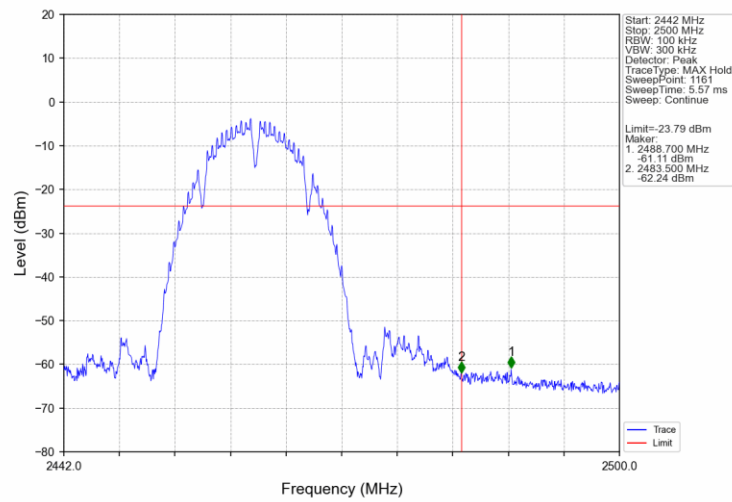
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



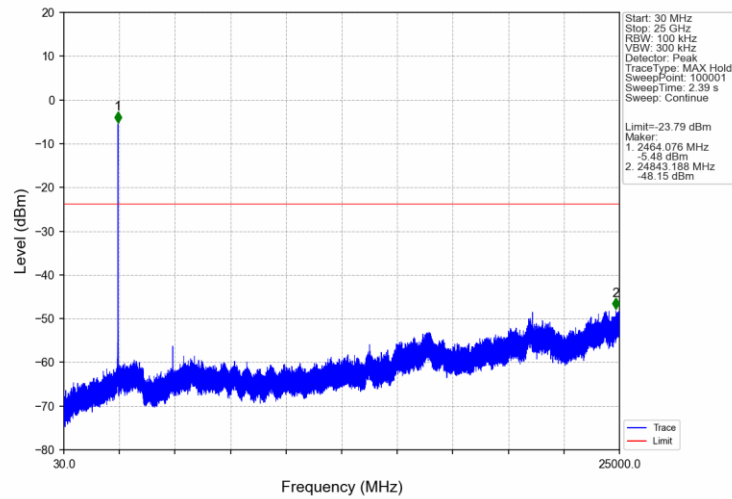
802.11b MCH 2437MHz_Ant1 (SISO) NTN



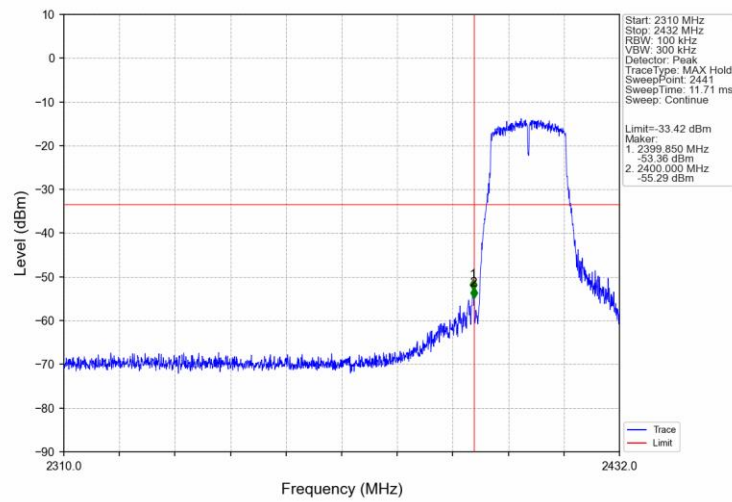
802.11b_HCH_2462MHz_Ant1 (SISO) NTN



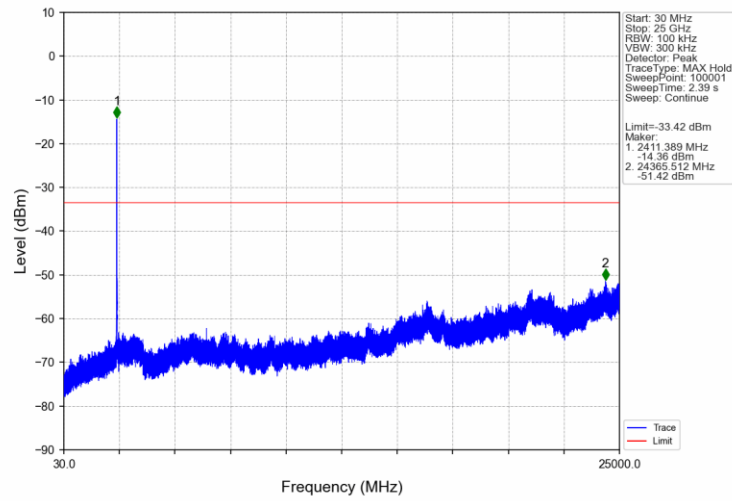
802.11b HCH 2462MHz_Ant1 (SISO) NTNv



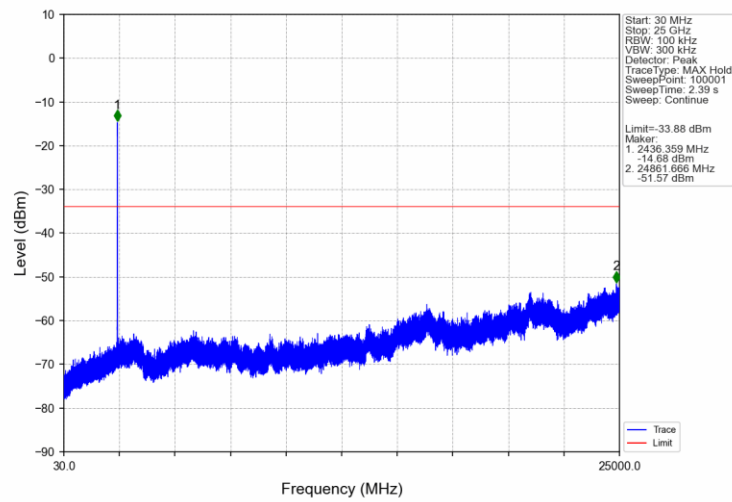
802.11g LCH 2412MHz_Ant1 (SISO) NTNv



802.11g_LCH_2412MHz_Ant1 (SISO) NTN

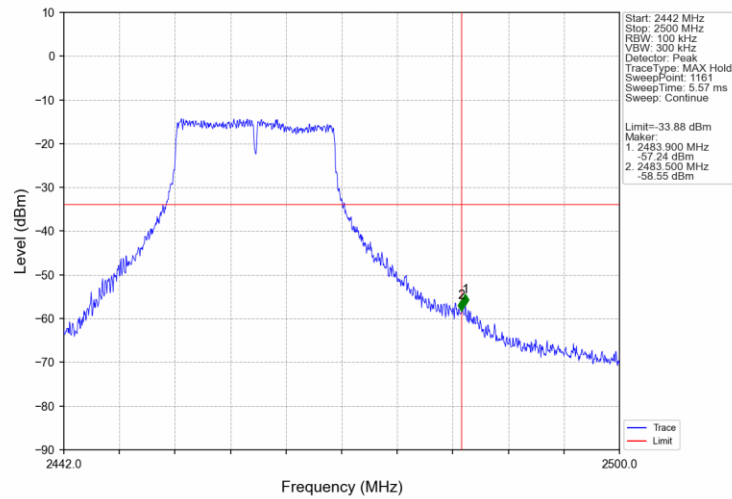


802.11g_MCH_2437MHz_Ant1 (SISO) NTN

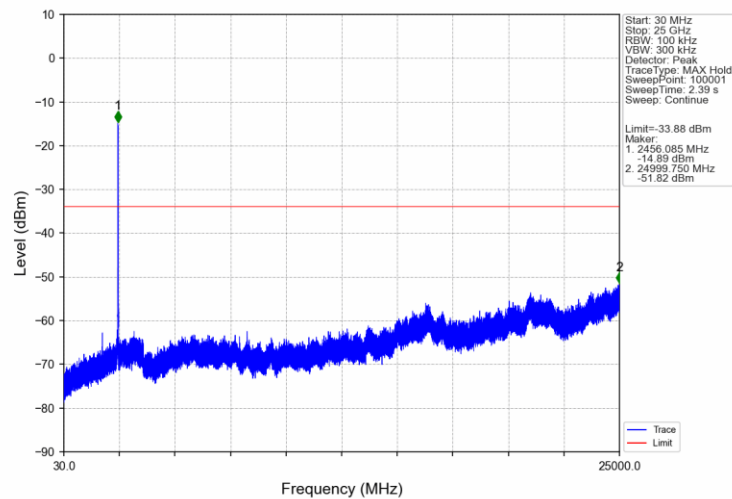




802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



***** End of Report *****