

Appendix for 15.247

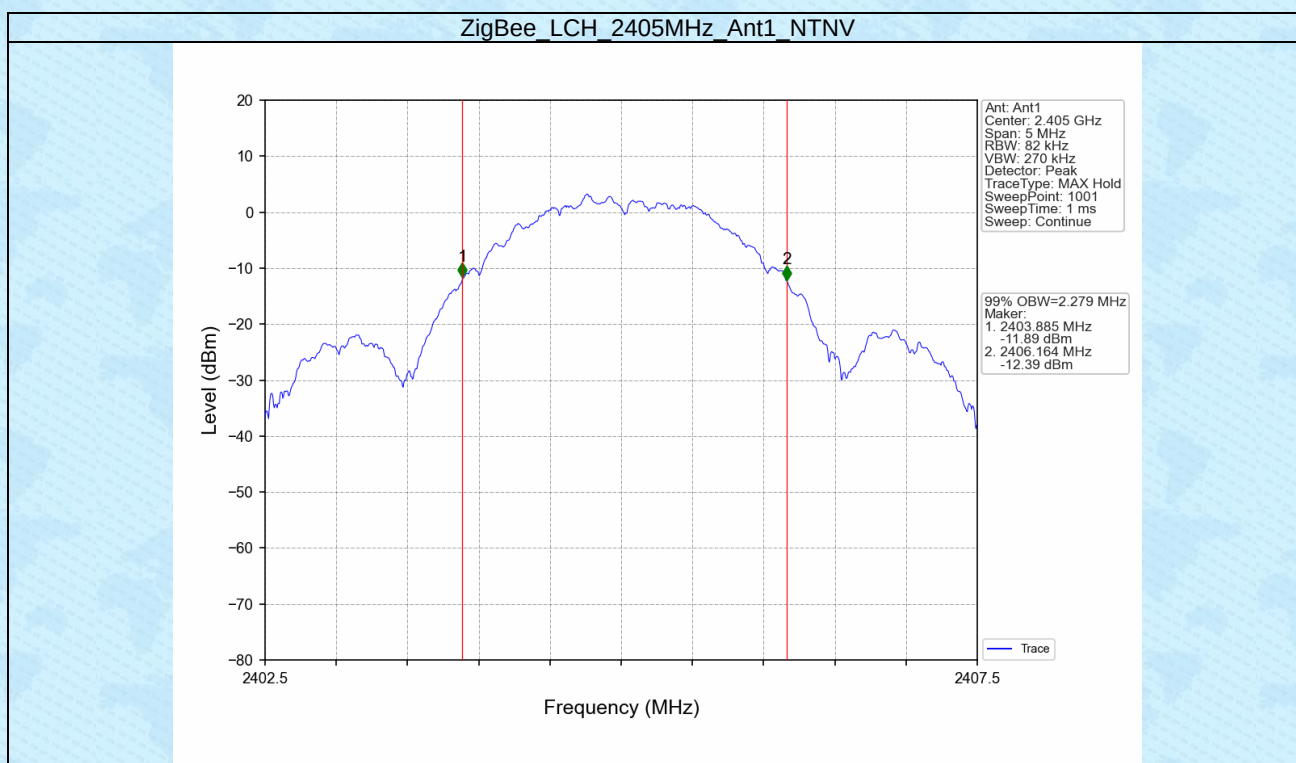
1. Bandwidth

1.1 OBW

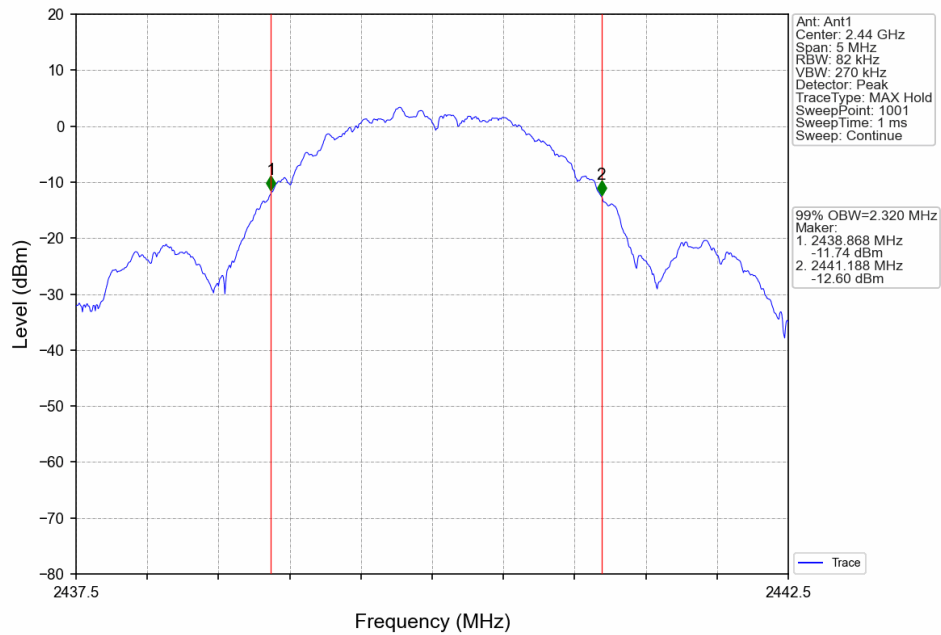
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
ZigBee	SISO	2405	1	2.279	Pass
		2440	1	2.320	Pass
		2480	1	2.311	Pass

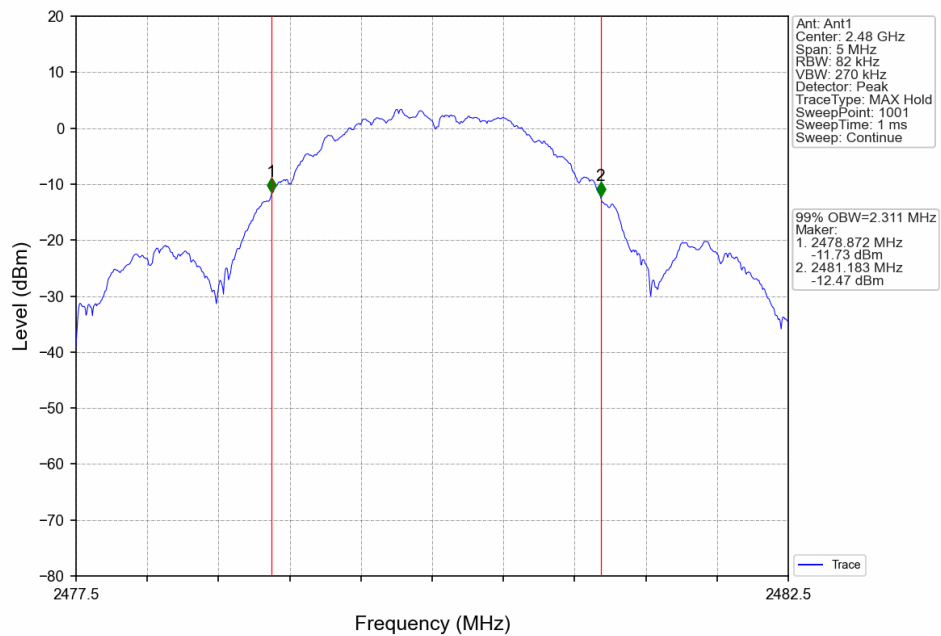
1.1.2 Test Graph



ZigBee_MCH_2440MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV

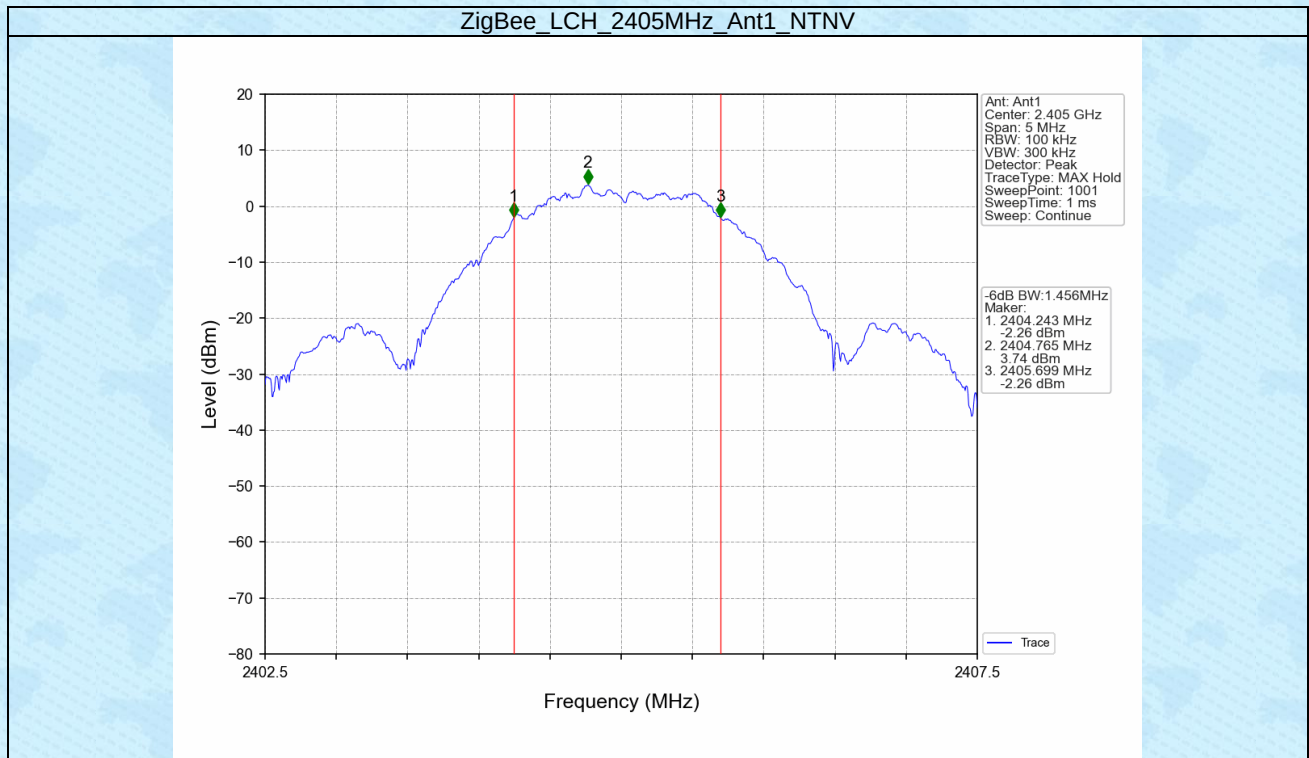


1.2 6dB BW

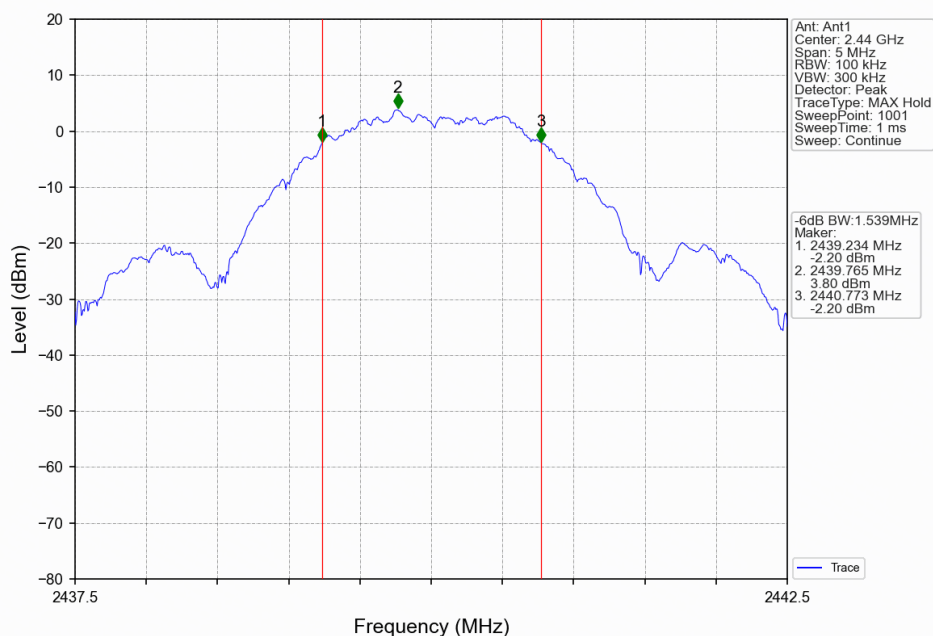
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
ZigBee	SISO	2405	1	1.456	≥ 0.5	Pass
		2440	1	1.539	≥ 0.5	Pass
		2480	1	1.525	≥ 0.5	Pass

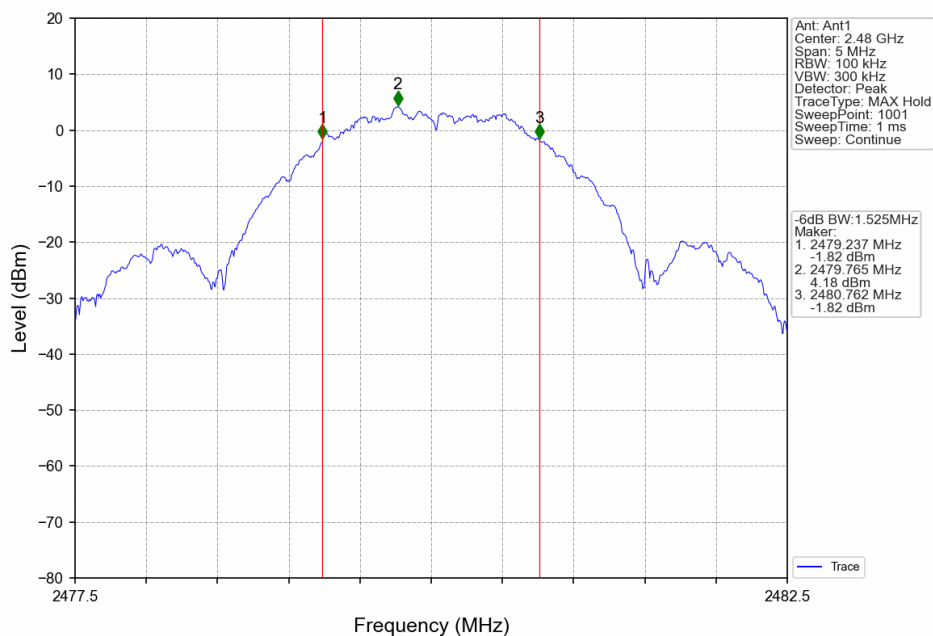
1.2.2 Test Graph



ZigBee_MCH_2440MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV



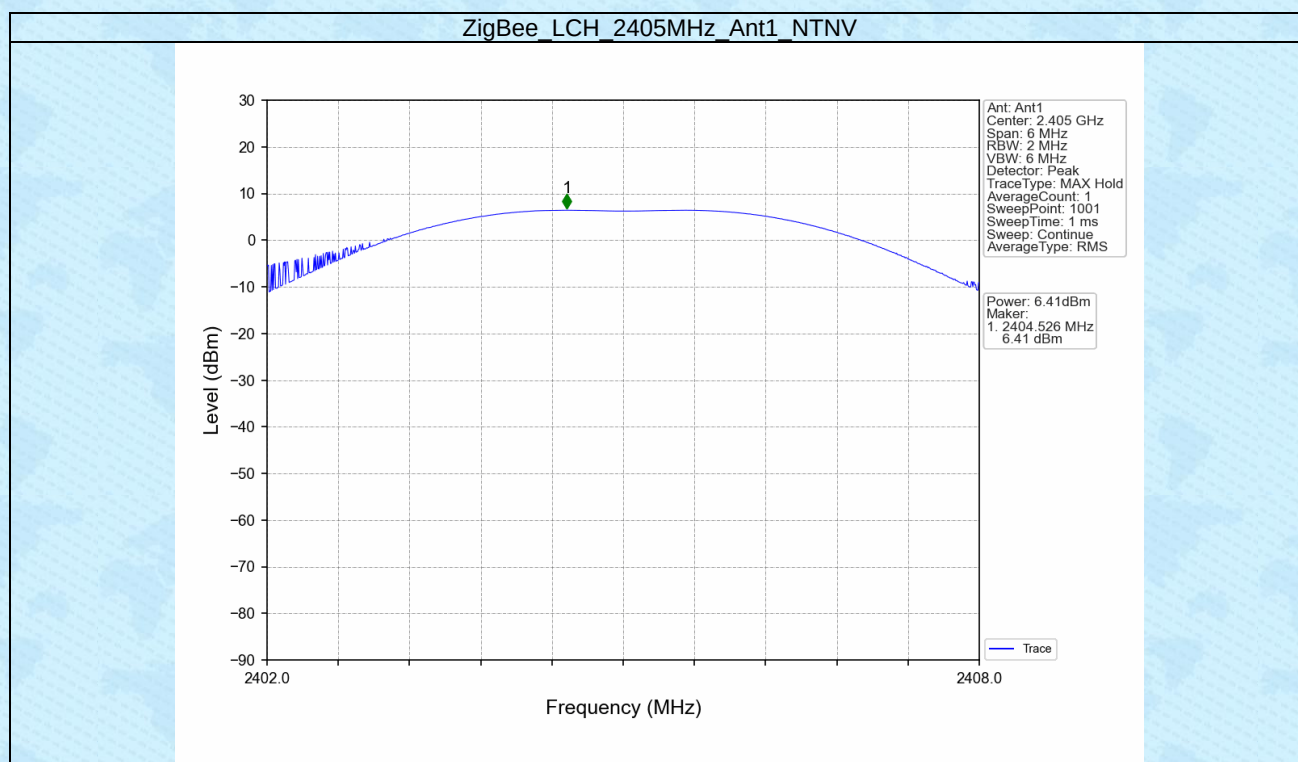
2. Maximum Conducted Output Power

2.1 Test Result

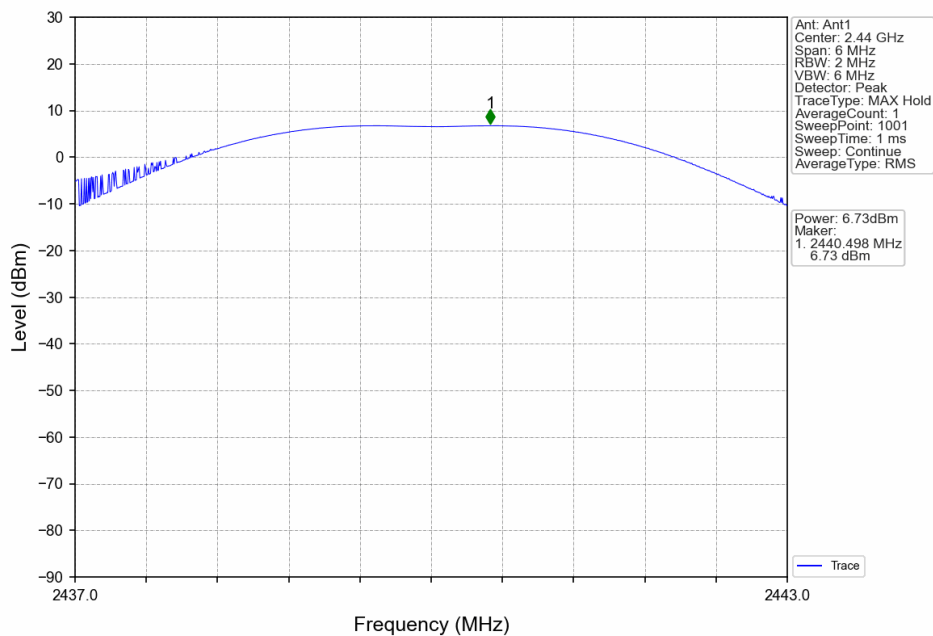
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
ZigBee	SISO	2405	6.41	<=30	Pass
		2440	6.73	<=30	Pass
		2480	6.99	<=30	Pass

Note1: Antenna Gain: Ant1: -2.61dBi;

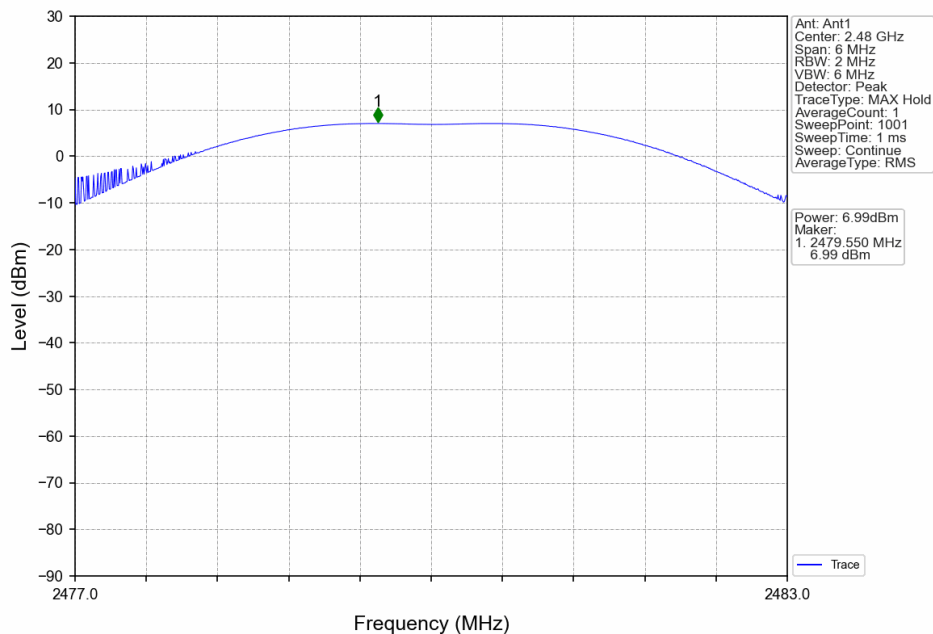
2.2 Test Graph



ZigBee_MCH_2440MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV



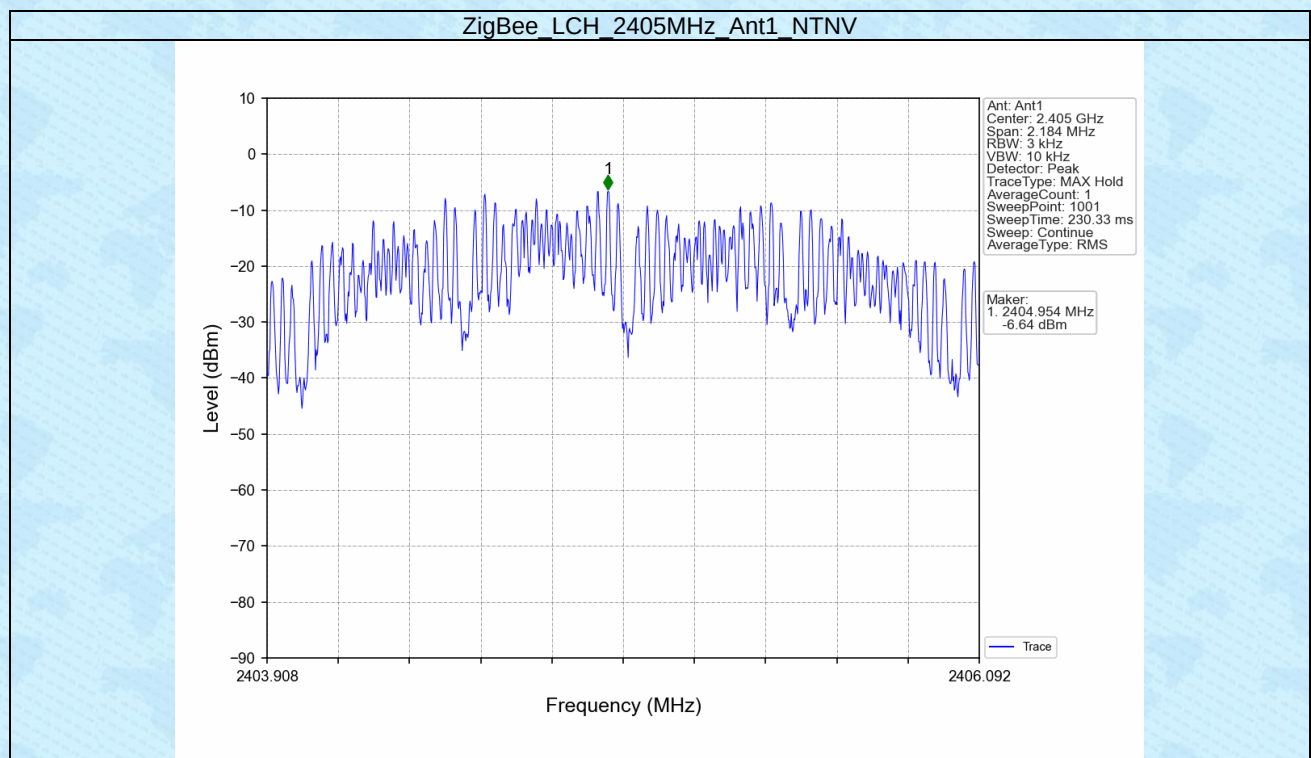
3. Maximum Power Spectral Density

3.1 Test Result

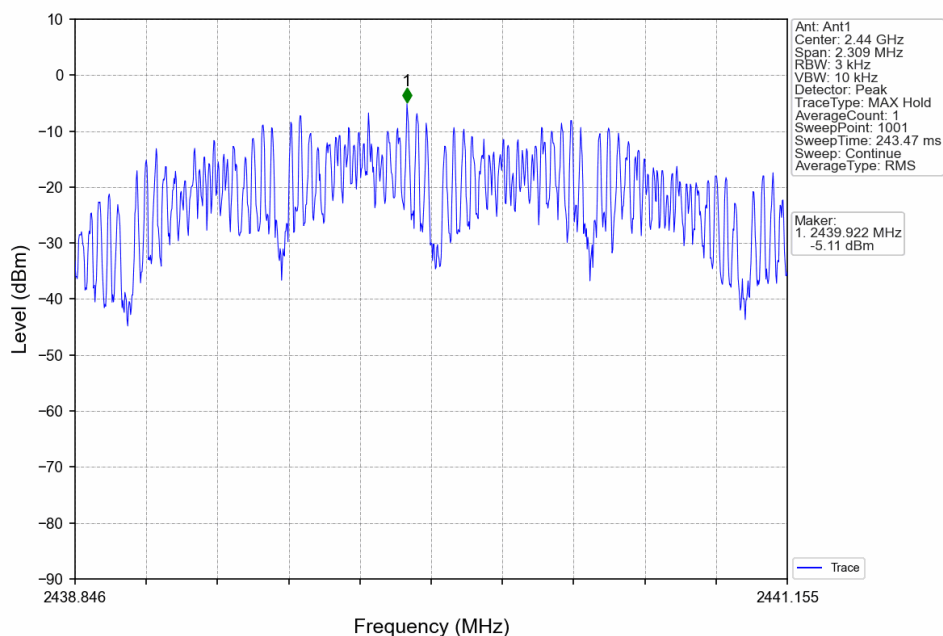
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
ZigBee	SISO	2405	-6.64	<=8	Pass
		2440	-5.11	<=8	Pass
		2480	-4.92	<=8	Pass

Note1: Antenna Gain: Ant1: -2.61dBi;

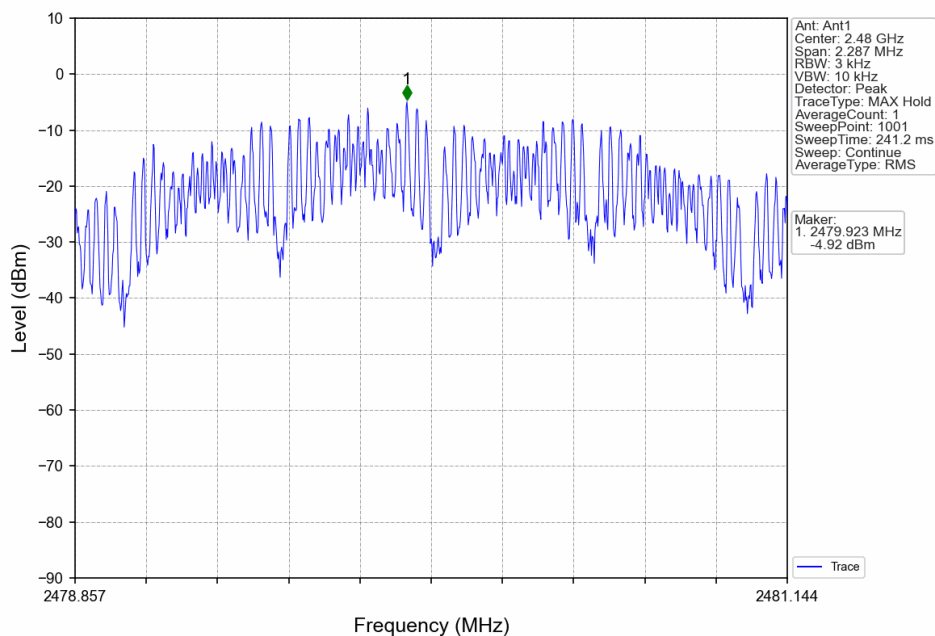
3.2 Test Graph



ZigBee_MCH_2440MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV



4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

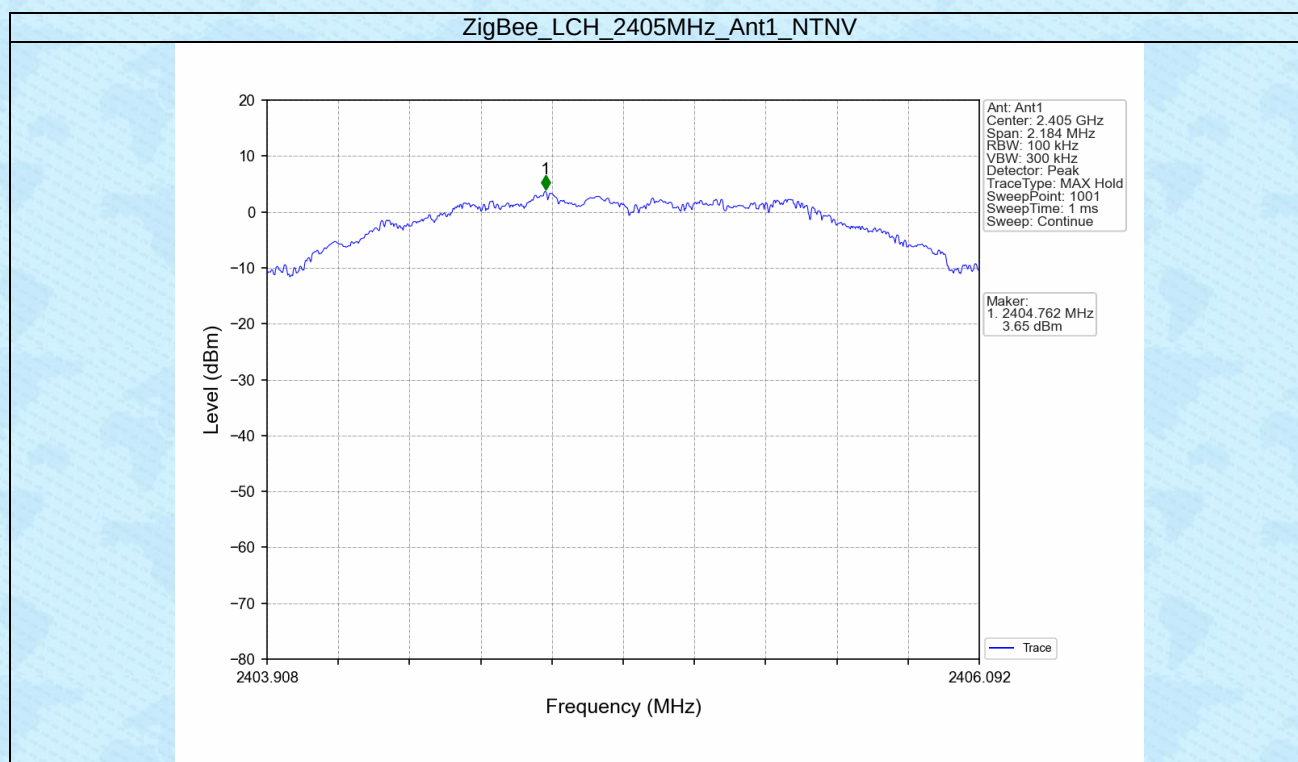
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
ZigBee	SISO	2405	1	3.65
		2440	1	3.79
		2480	1	4.01

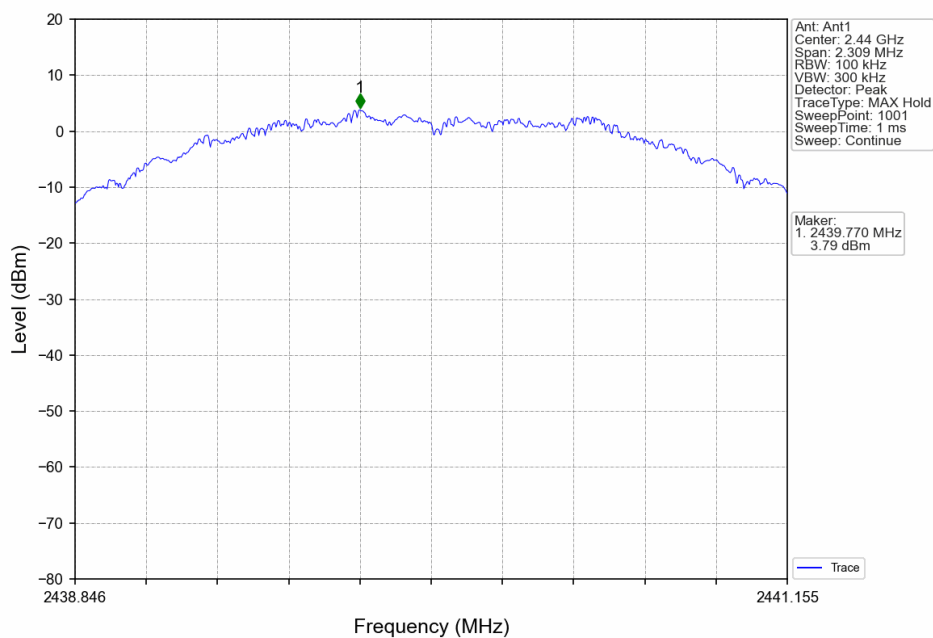
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

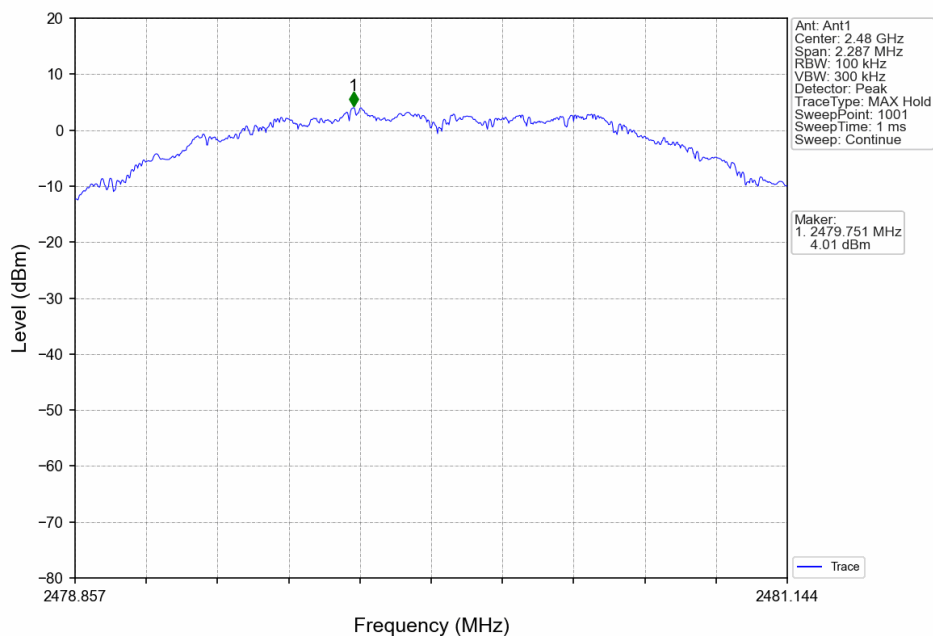
4.1.2 Test Graph



ZigBee_MCH_2440MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV



4.2 CSE

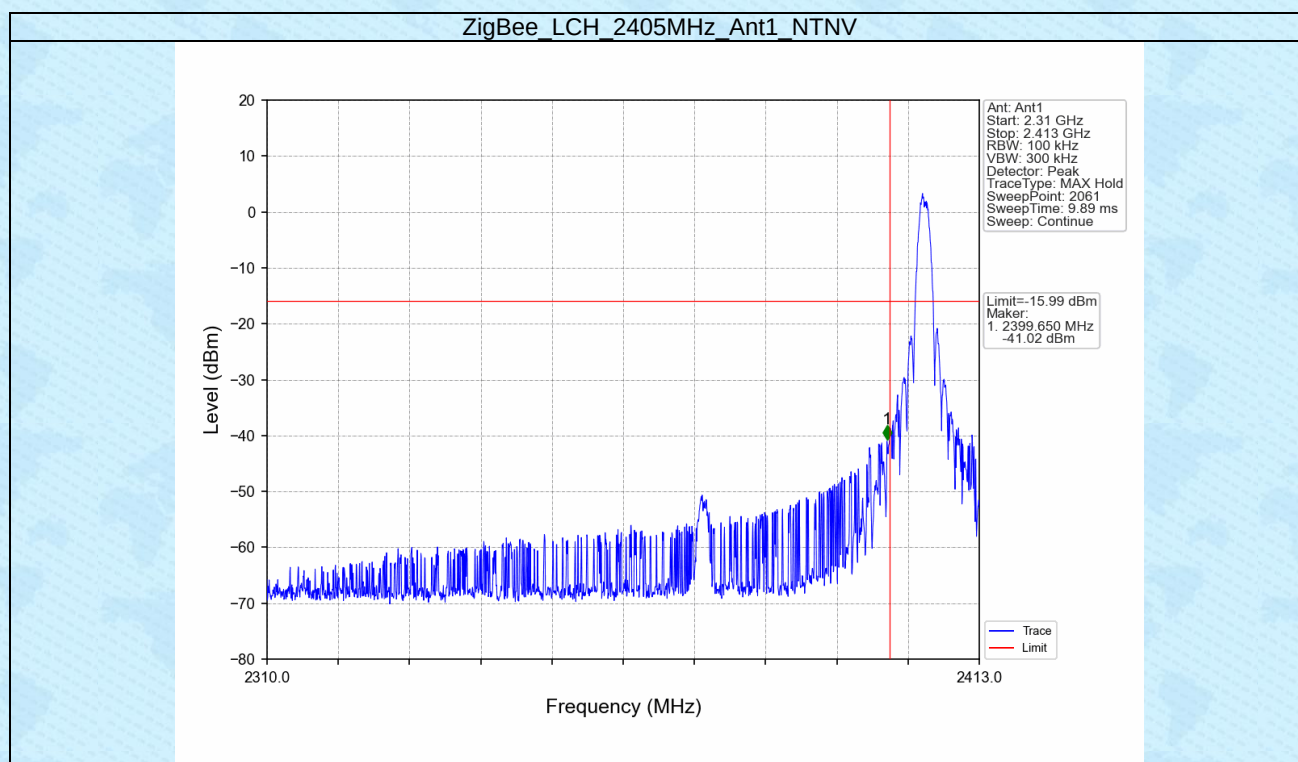
4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
ZigBee	SISO	2405	1	4.01	-15.99	Pass
		2440	1	4.01	-15.99	Pass
		2480	1	4.01	-15.99	Pass

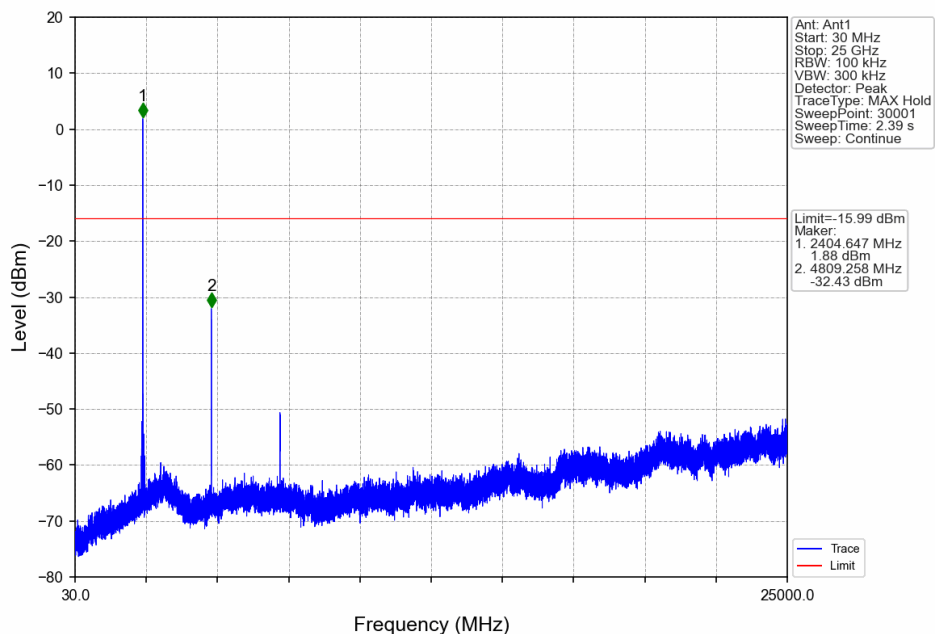
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

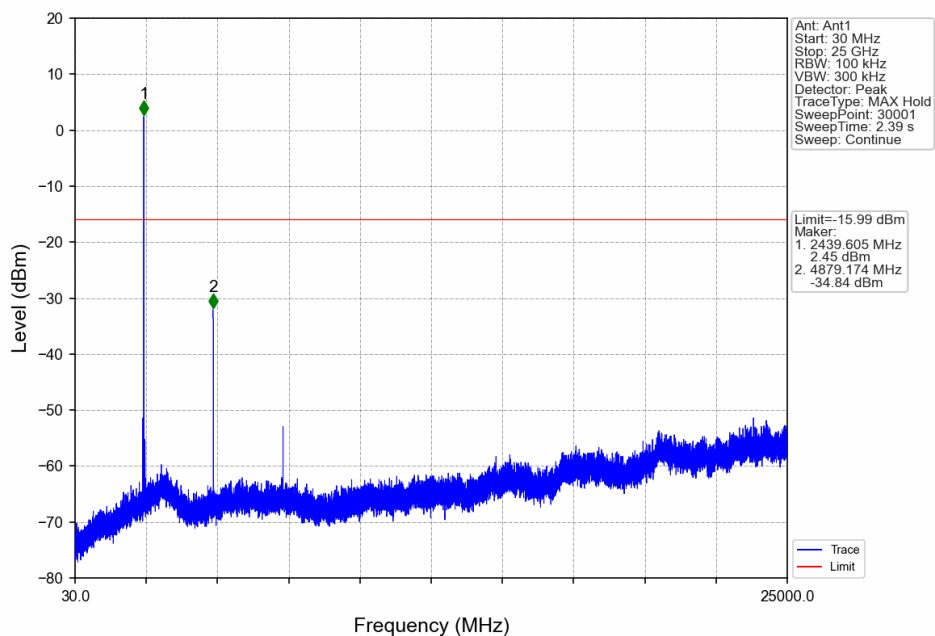
4.2.2 Test Graph



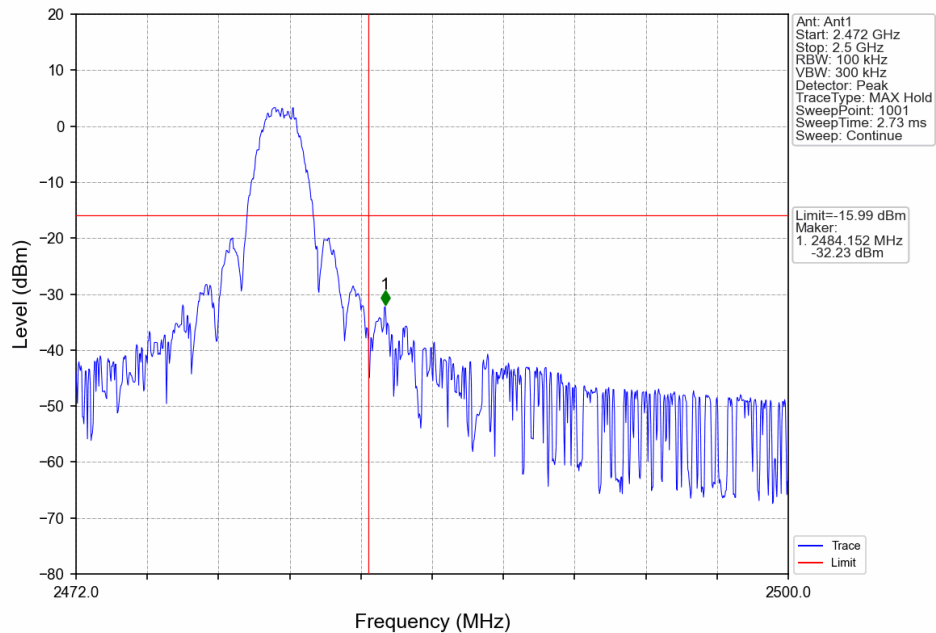
ZigBee_LCH_2405MHz_Ant1_NTNV



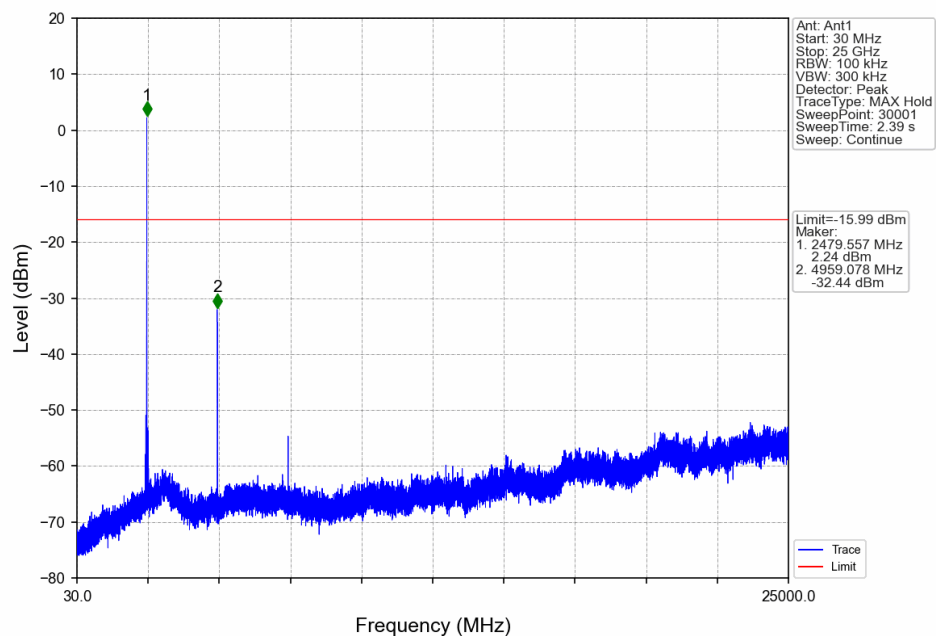
ZigBee_MCH_2440MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV



ZigBee_HCH_2480MHz_Ant1_NTNV



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