

Appendix A for SHEM210800969701

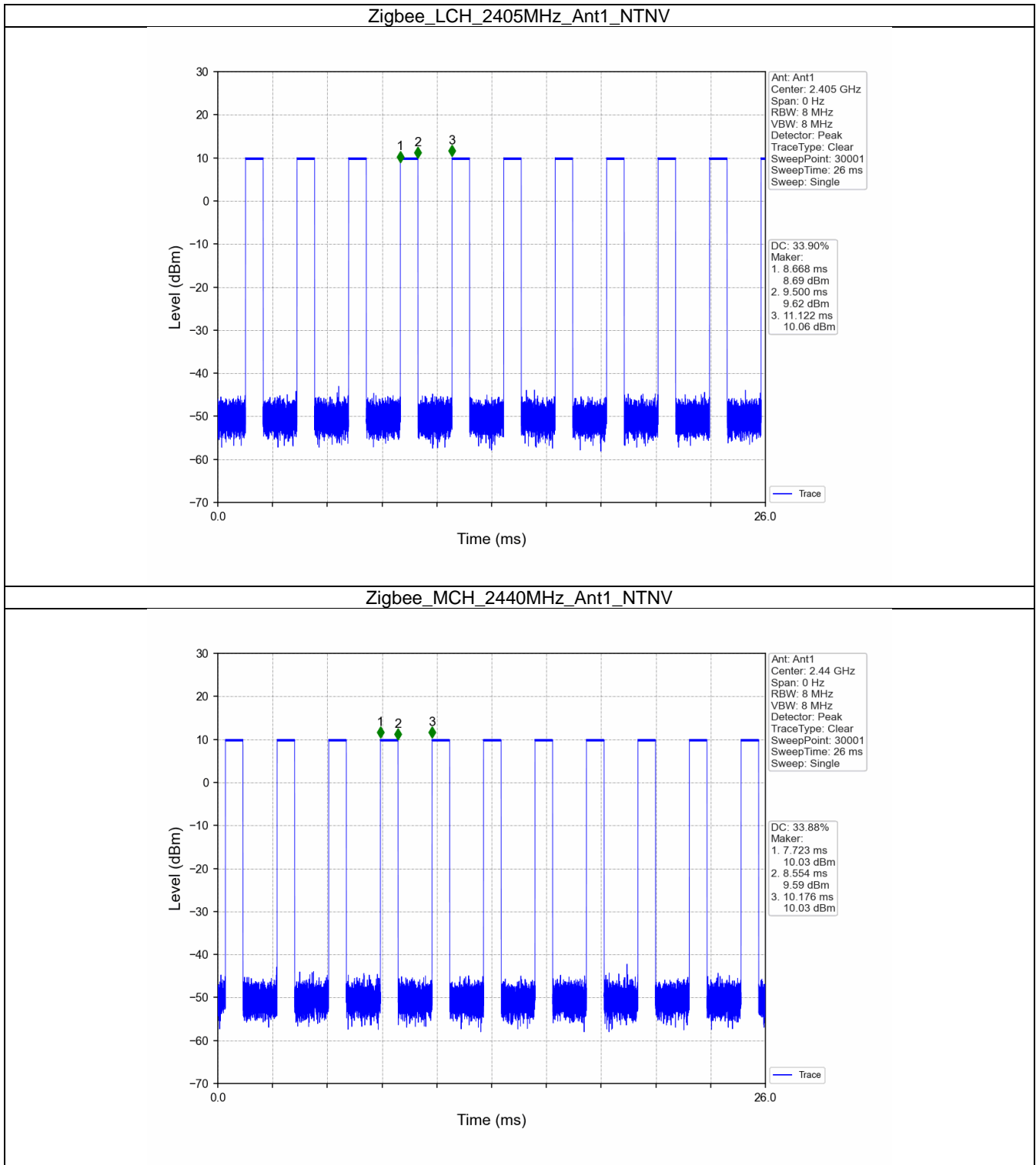
1. Duty Cycle

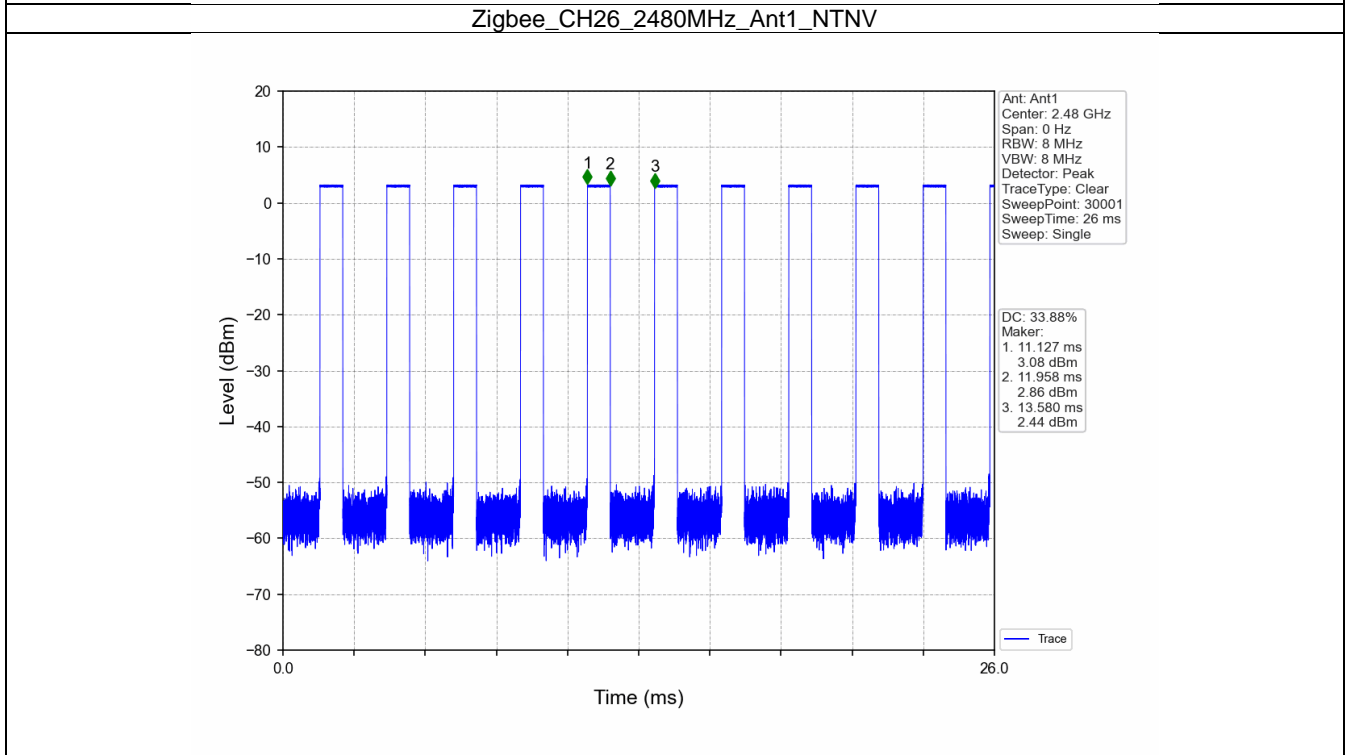
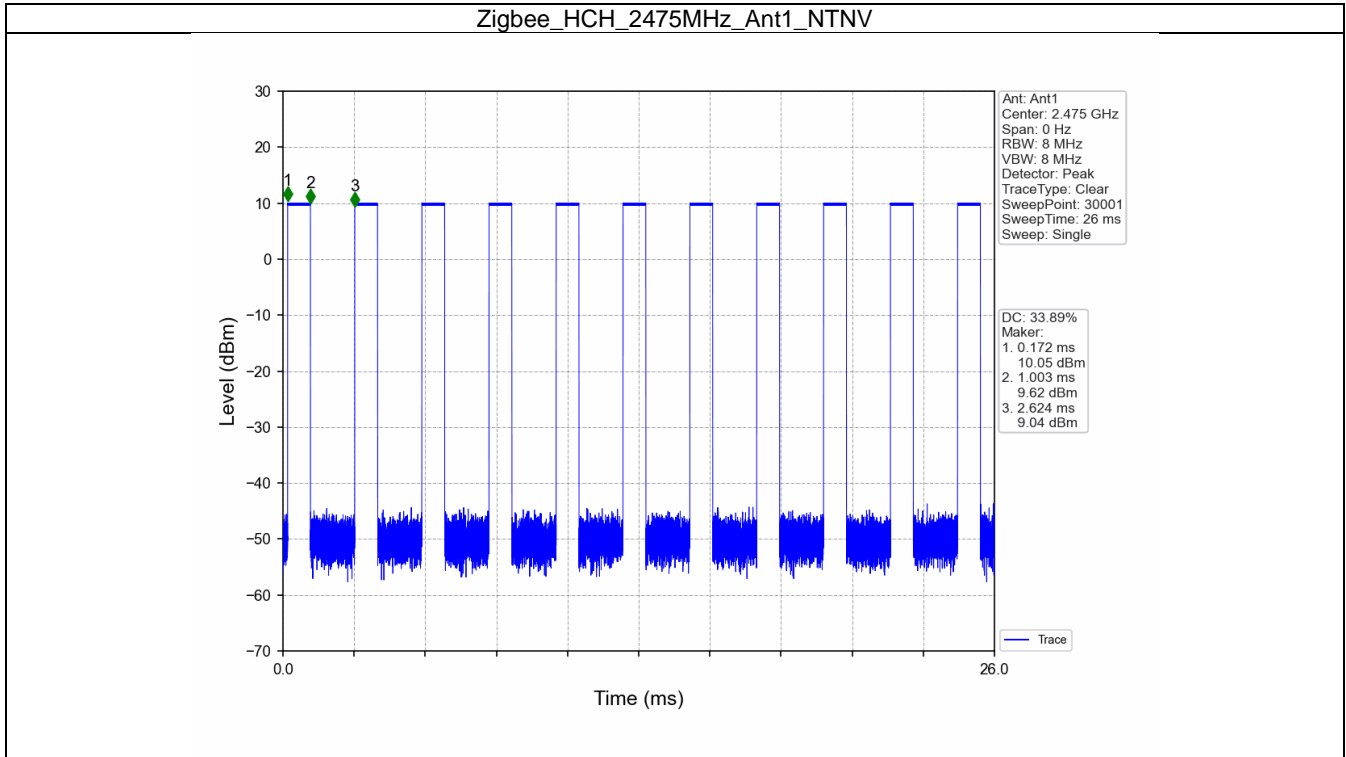
1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
Zigbee	SISO	2405	0.832	2.454	33.90	4.70	0.14
		2440	0.831	2.453	33.88	4.70	0.17
		2475	0.831	2.452	33.89	4.70	0.17
		2480	0.831	2.453	33.88	4.70	0.16

1.1.2 Test Graph





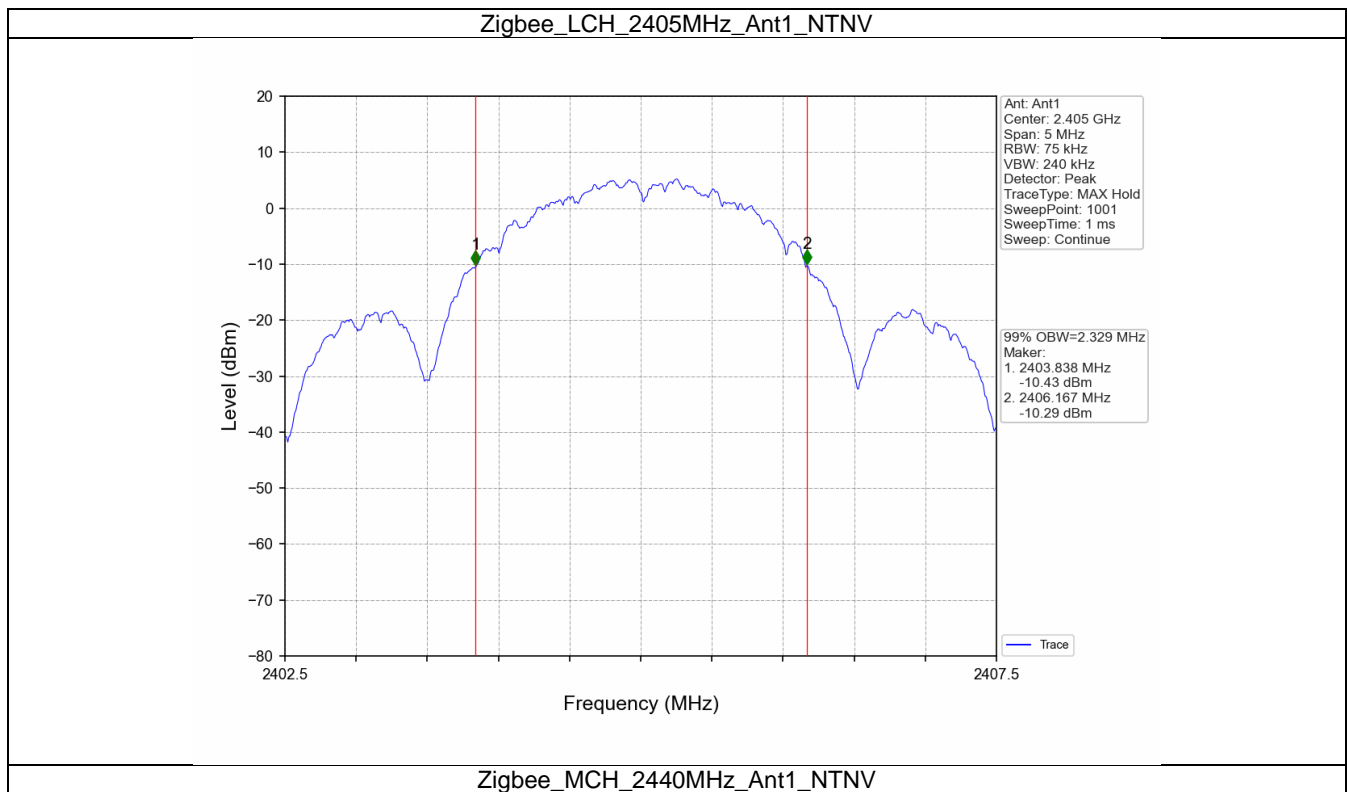
## 2. Bandwidth

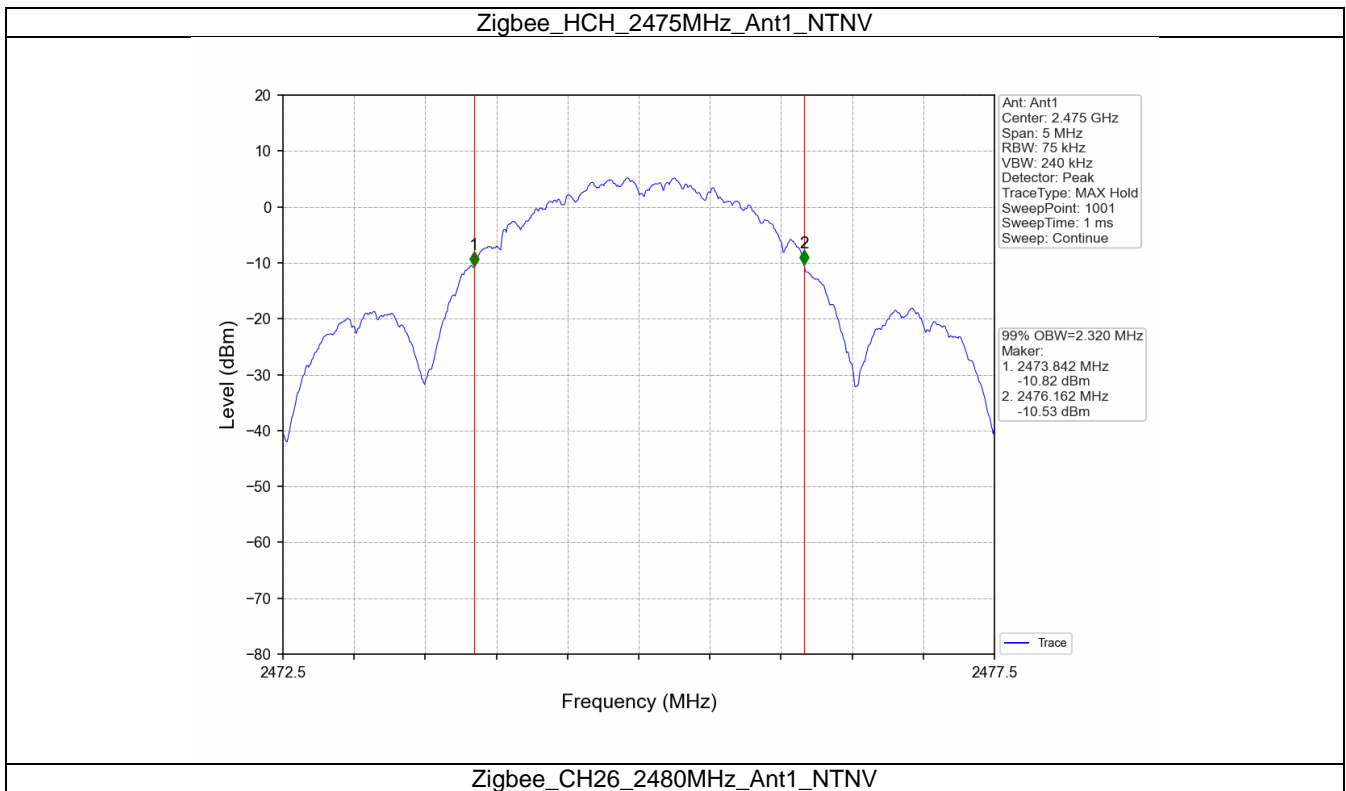
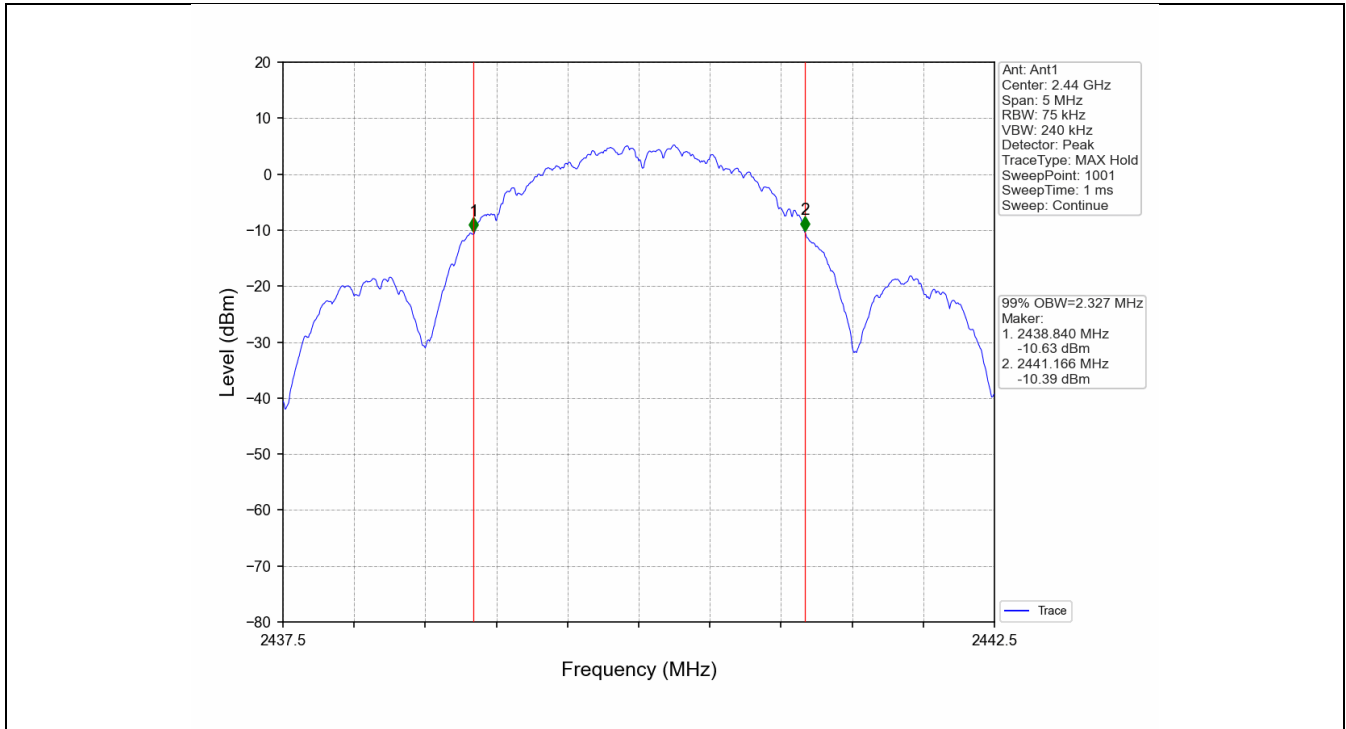
## 2.1 OBW

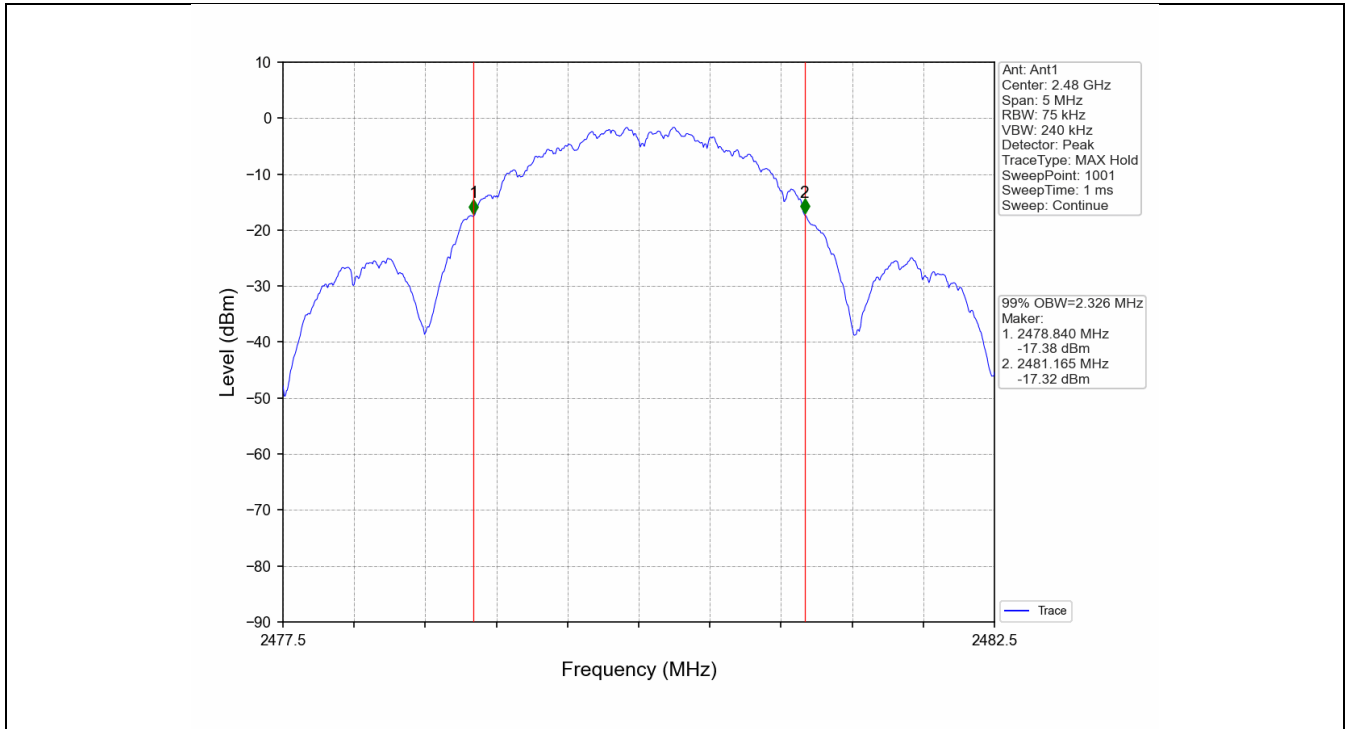
### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)		Verdict
				Result		
Zigbee	SISO	2405	1	2.329		Pass
		2440	1	2.327		Pass
		2475	1	2.320		Pass
		2480	1	2.326		Pass

### 2.1.2 Test Graph





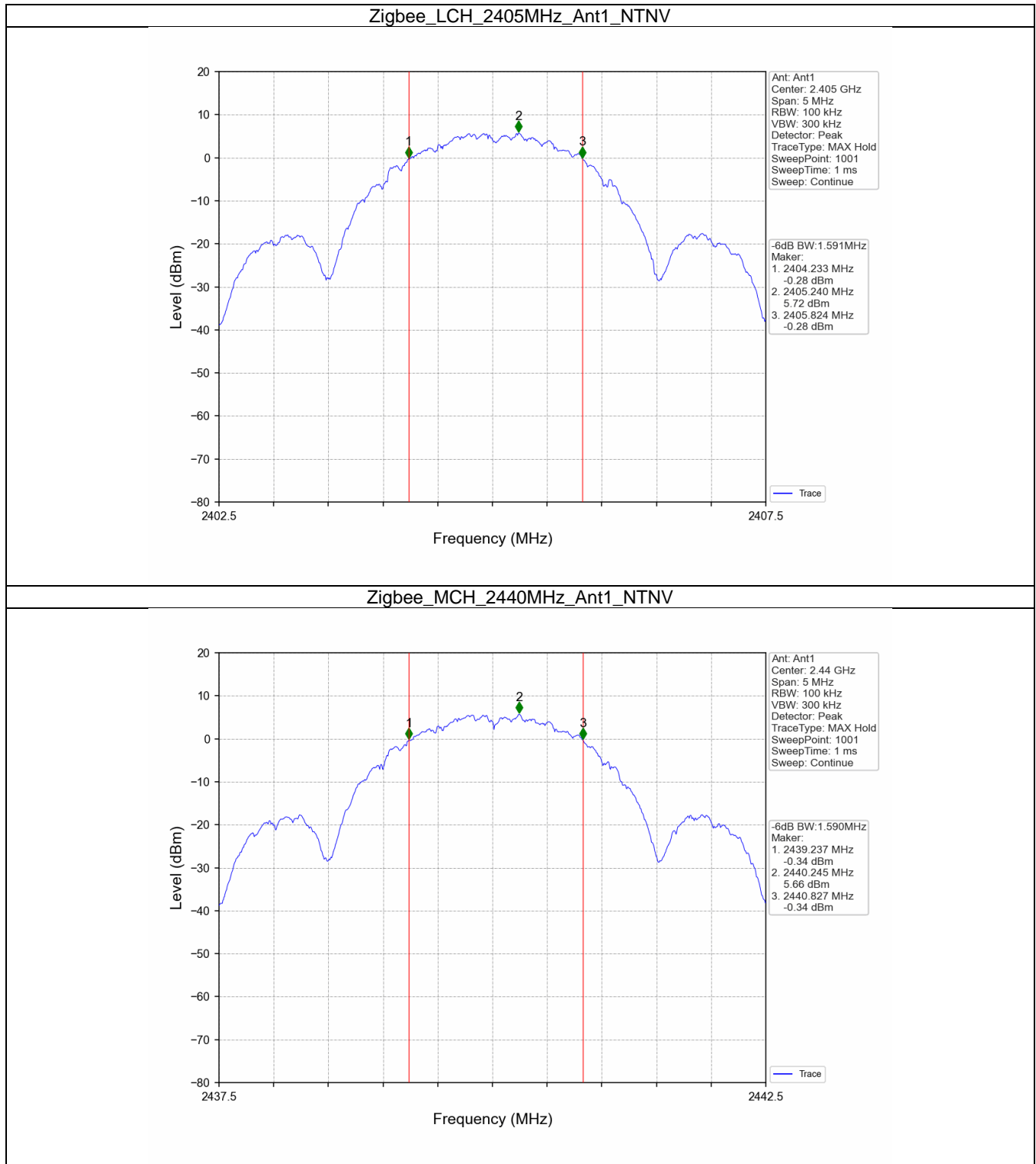


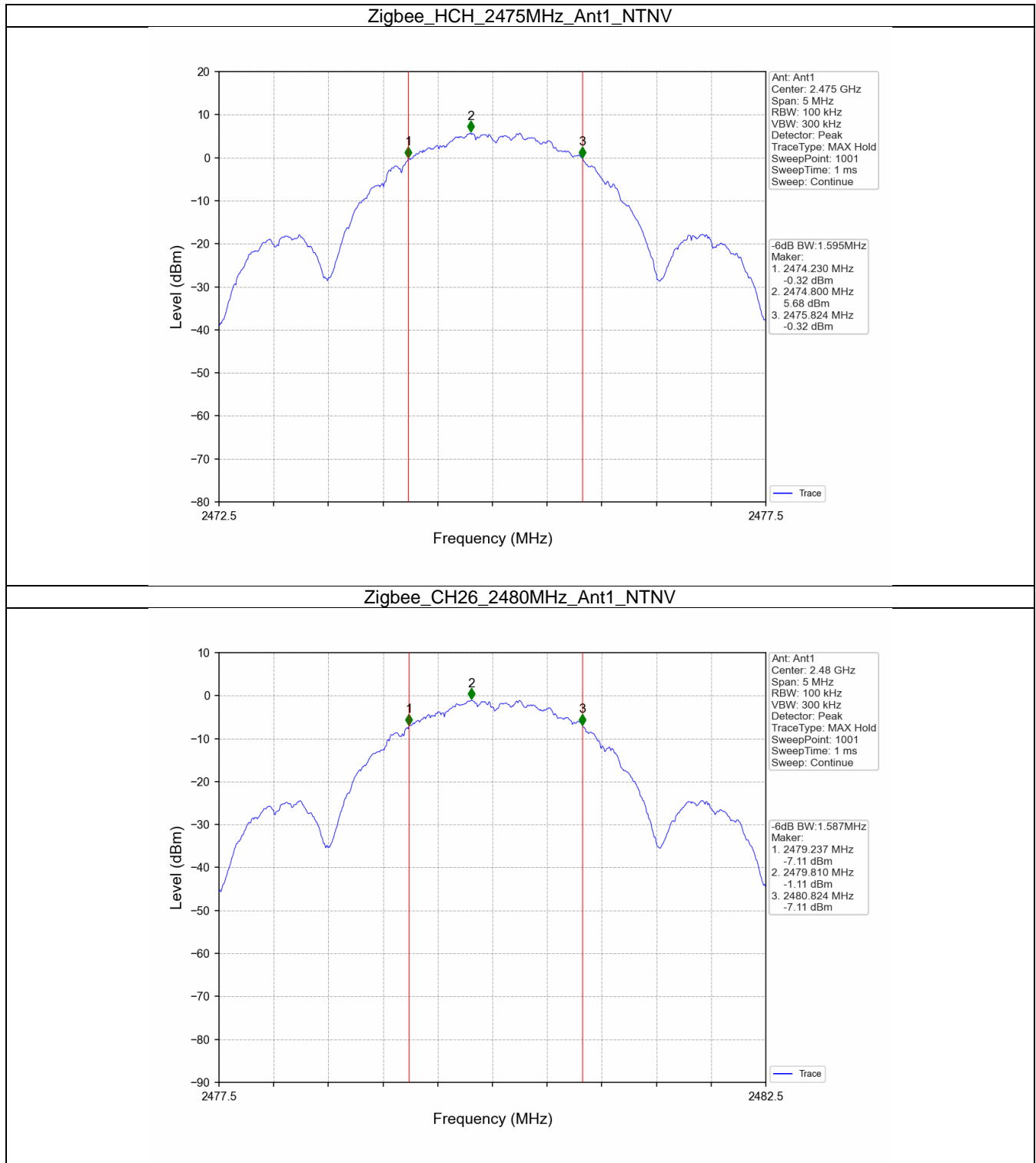
## 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
Zigbee	SISO	2405	1	1.591	$\geq 0.5$	Pass
		2440	1	1.590	$\geq 0.5$	Pass
		2475	1	1.595	$\geq 0.5$	Pass
		2480	1	1.587	$\geq 0.5$	Pass

### 2.2.2 Test Graph





### 3. Maximum Conducted Output Power



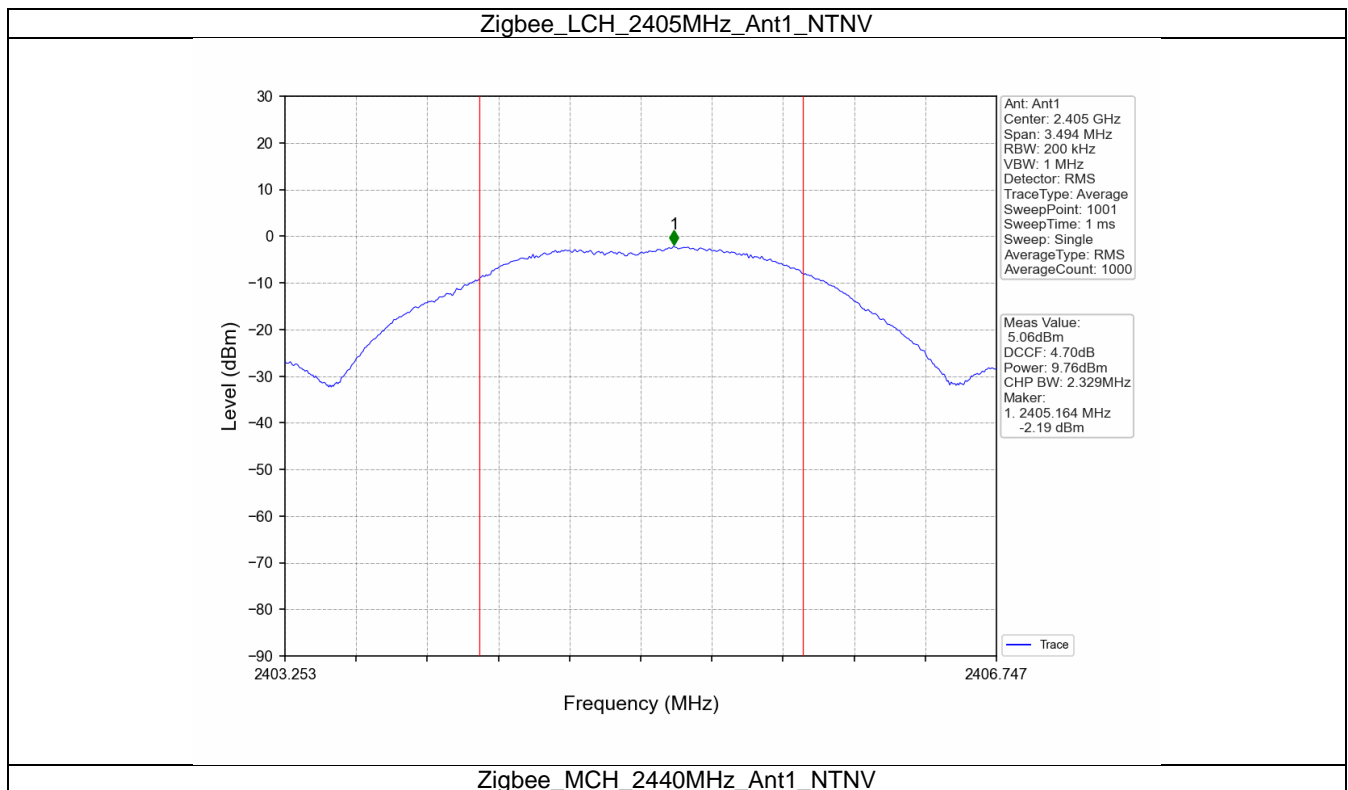
### 3.1 Power

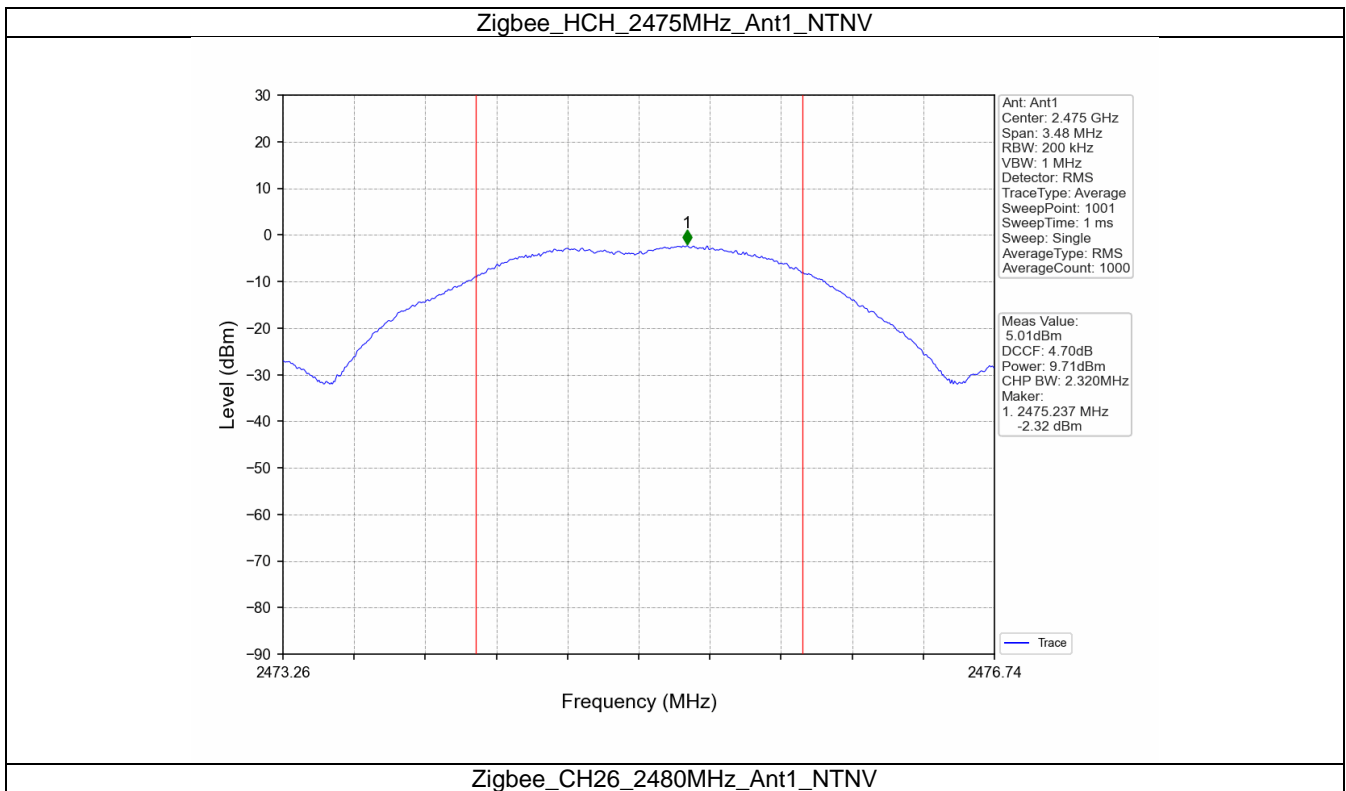
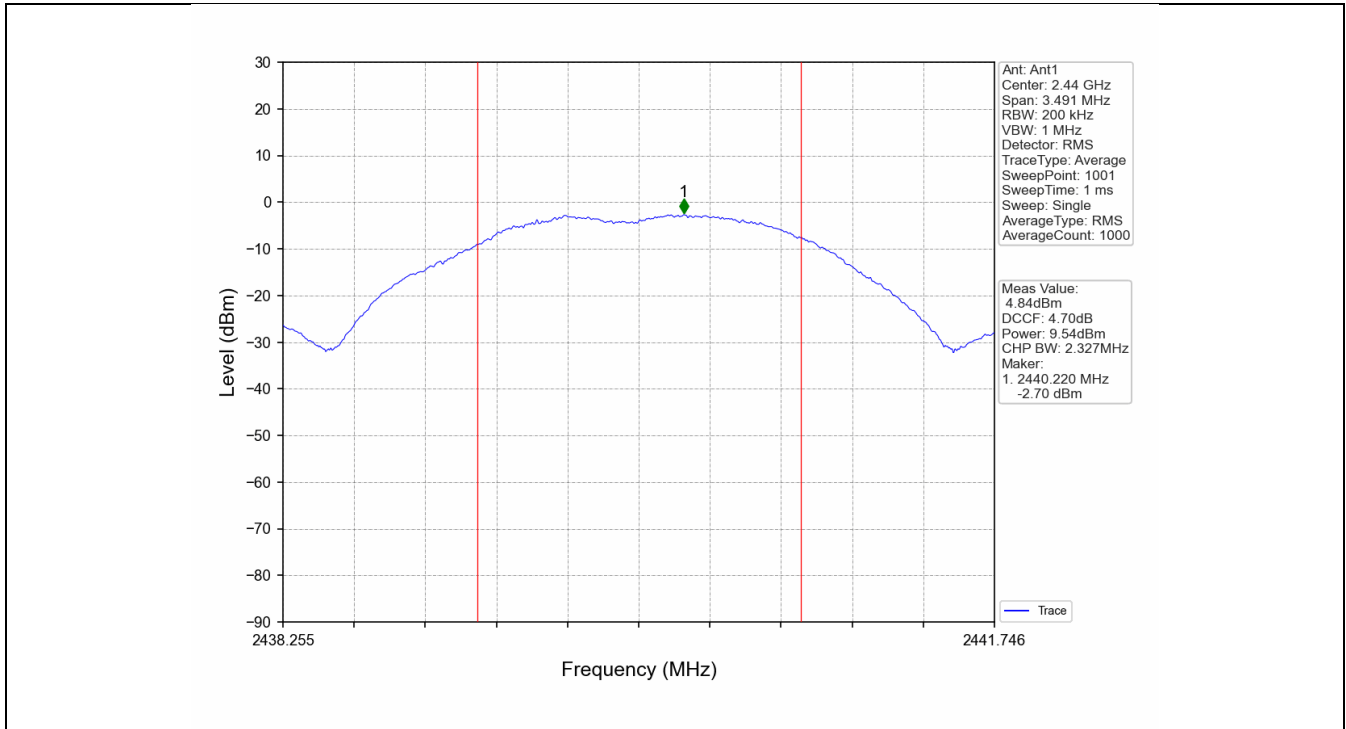
#### 3.1.1 Test Result

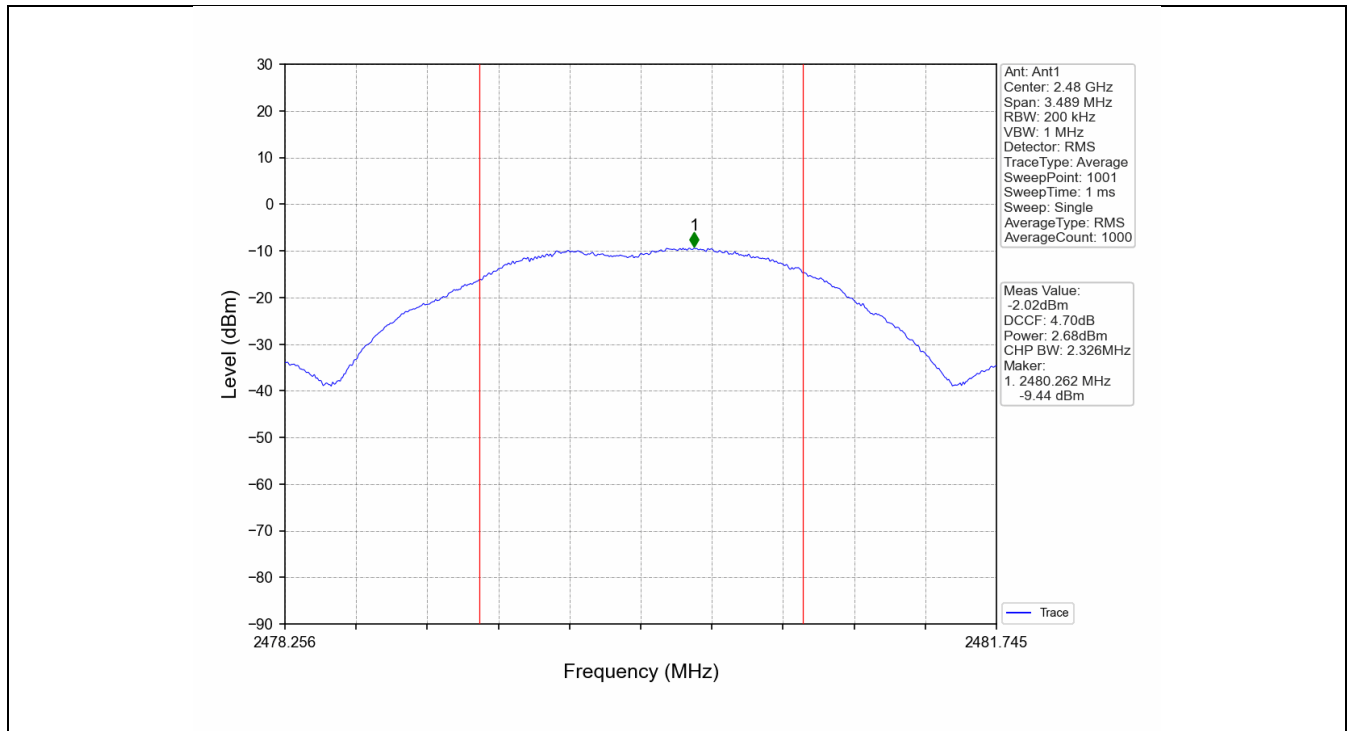
Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
Zigbee	SISO	2405	9.76	<=30	Pass
		2440	9.54	<=30	Pass
		2475	9.71	<=30	Pass
		2480	2.68	<=30	Pass

Note1: Antenna Gain: Ant1: 3.61dBi;

#### 3.1.2 Test Graph







## 4. Maximum Power Spectral Density

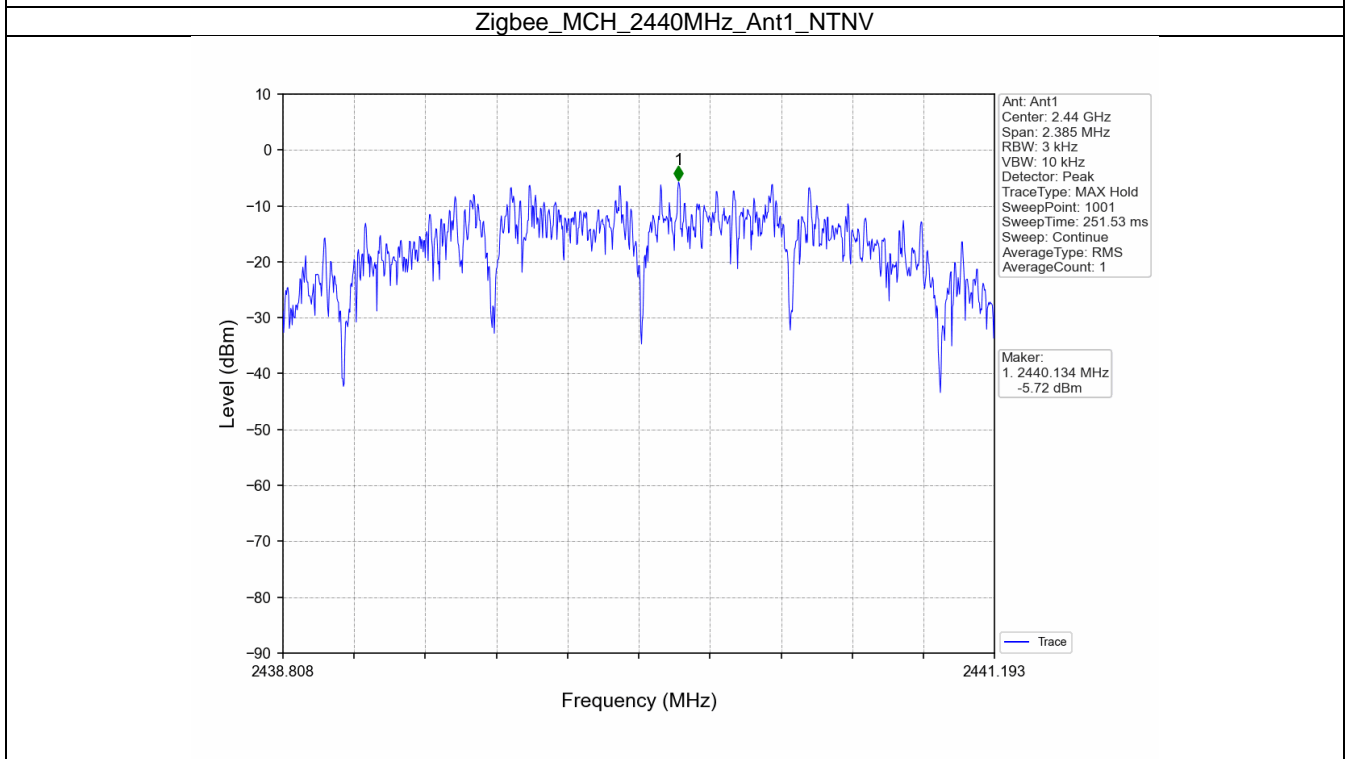
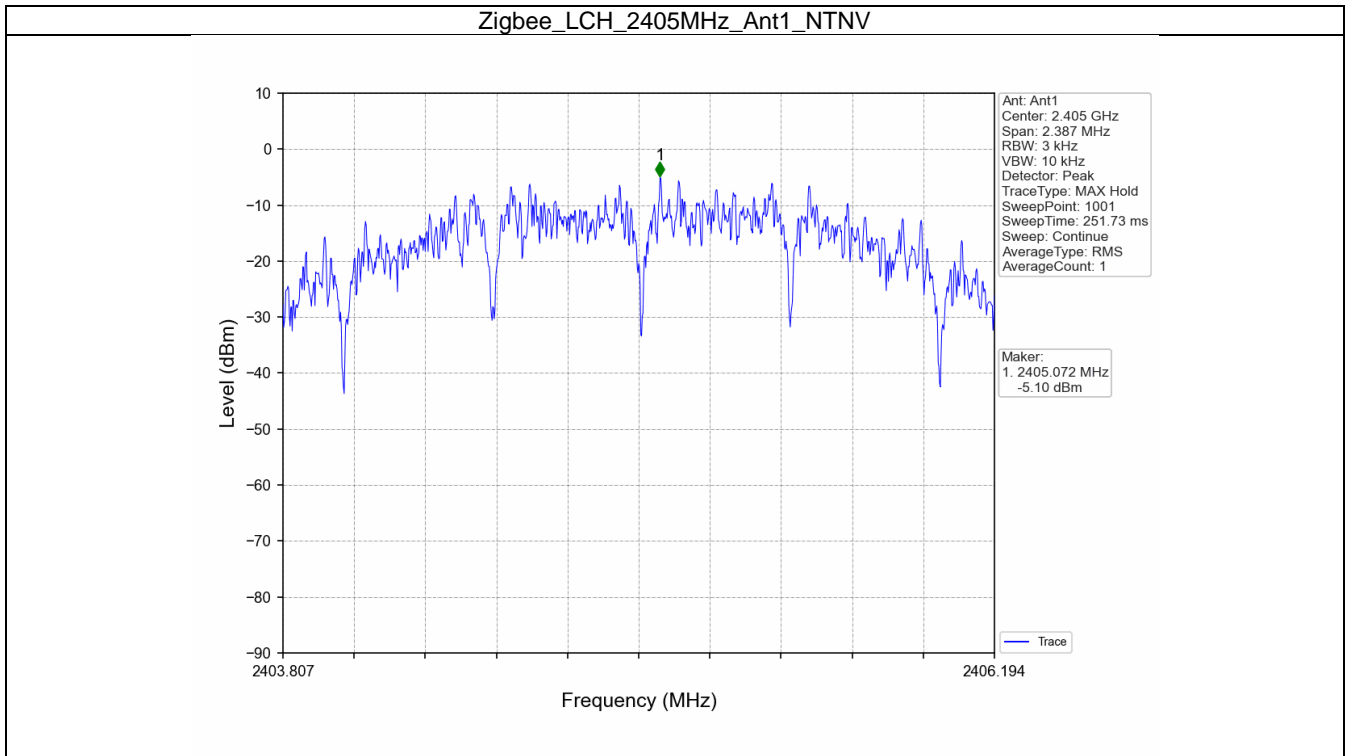
### 4.1 PSD

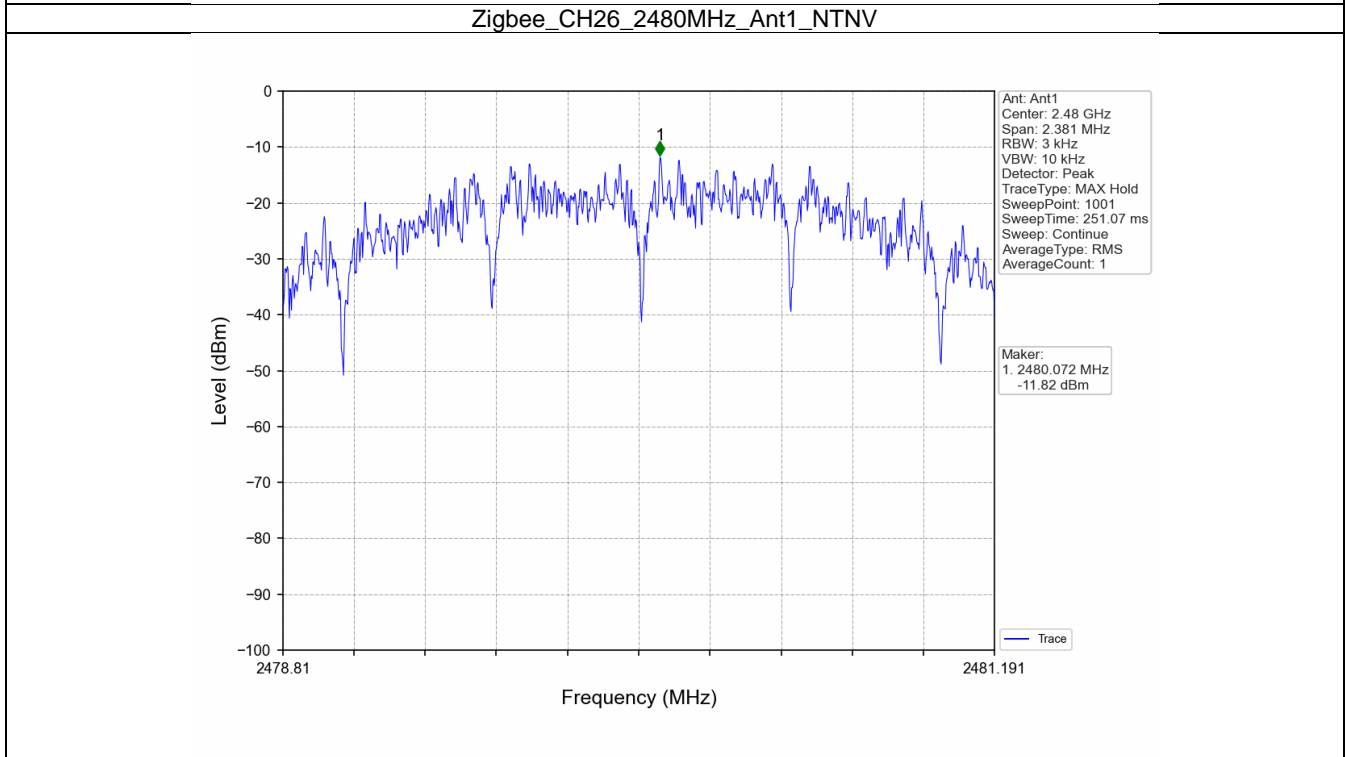
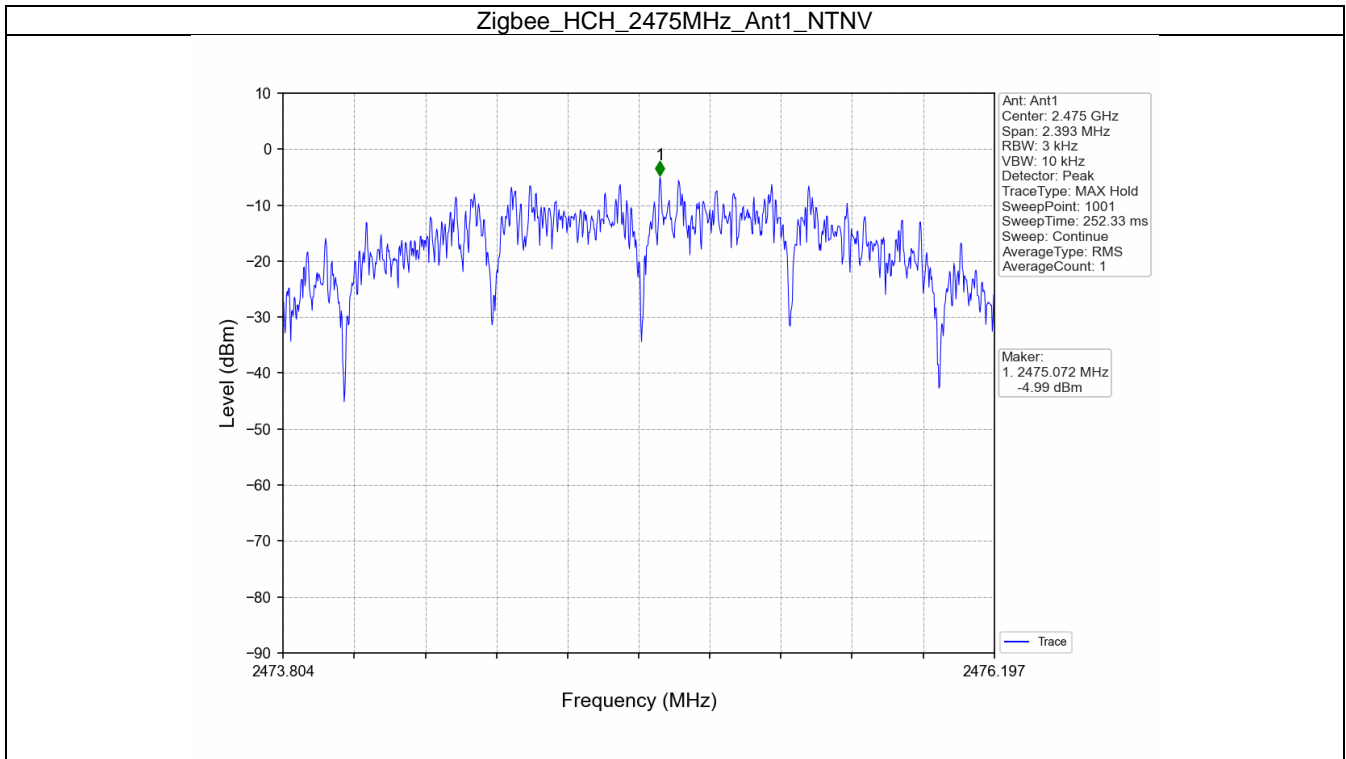
#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
Zigbee	SISO	2405	-5.10	<=8	Pass
		2440	-5.72	<=8	Pass
		2475	-4.99	<=8	Pass
		2480	-11.82	<=8	Pass

Note1: Antenna Gain: Ant1: 3.61dBi;

4.1.2 Test Graph





## 5. Unwanted Emissions In Non-restricted Frequency Bands

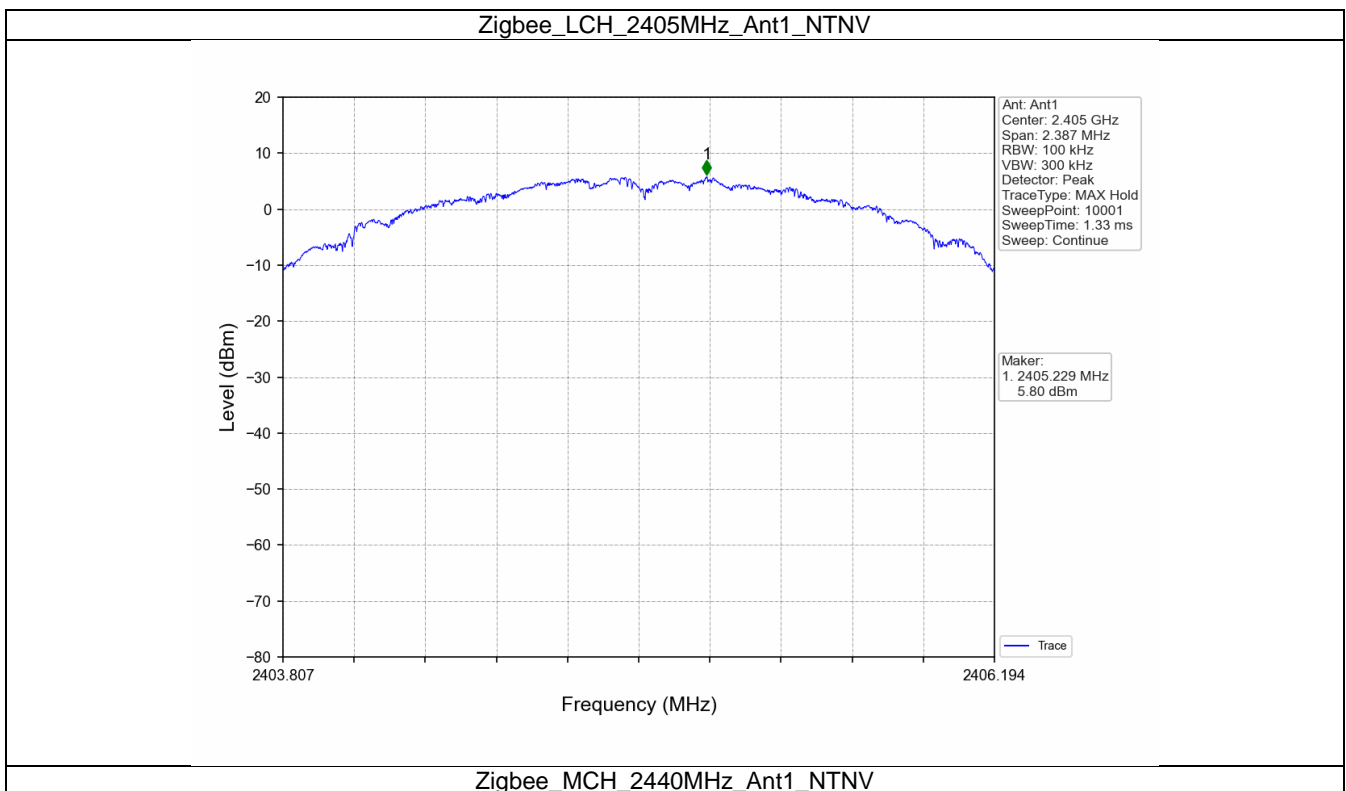
## 5.1 Ref

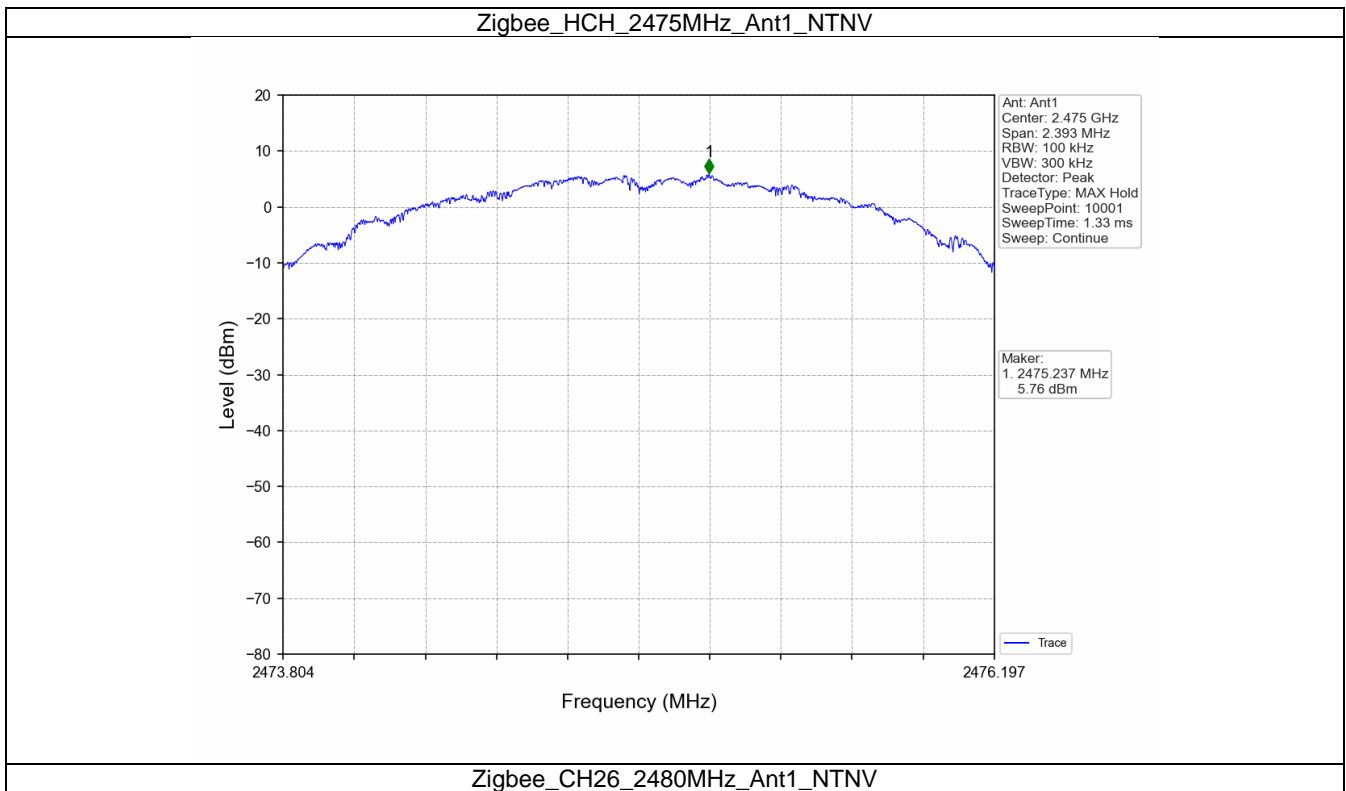
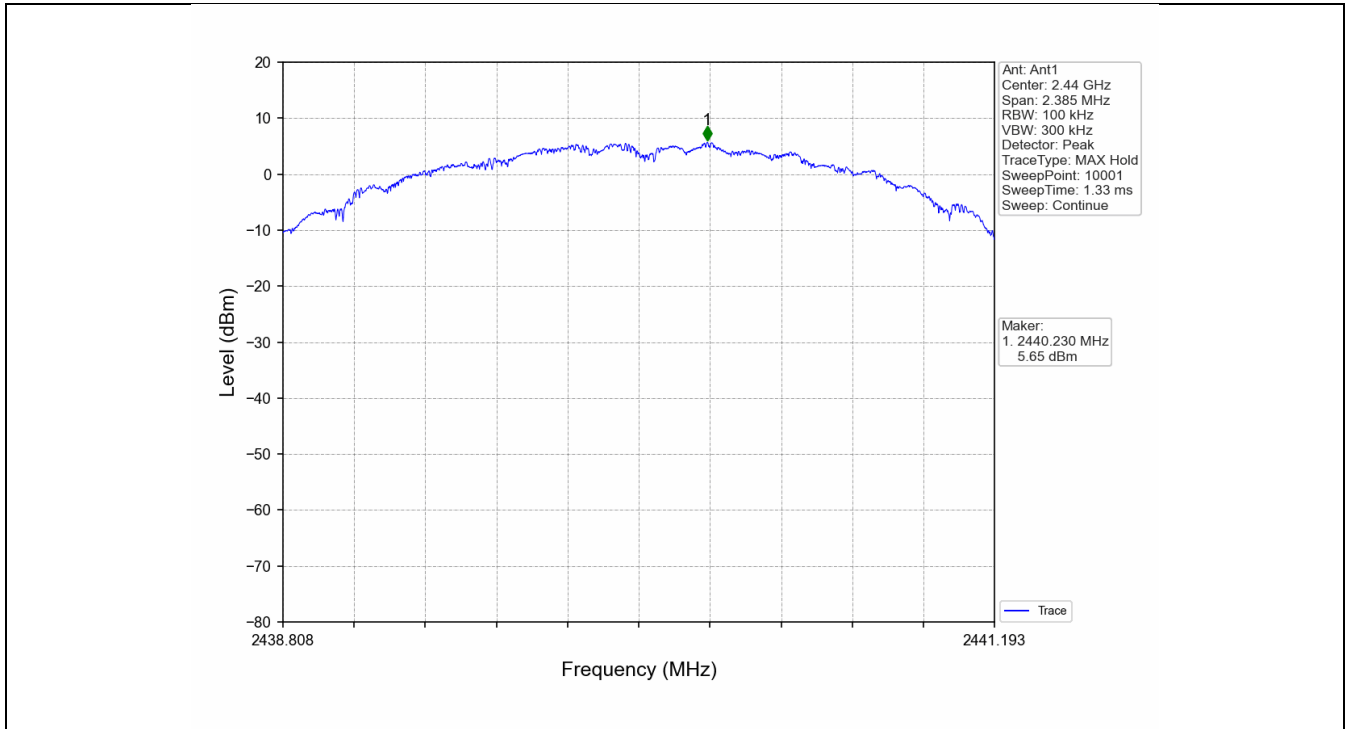
### 5.1.1 Test Result

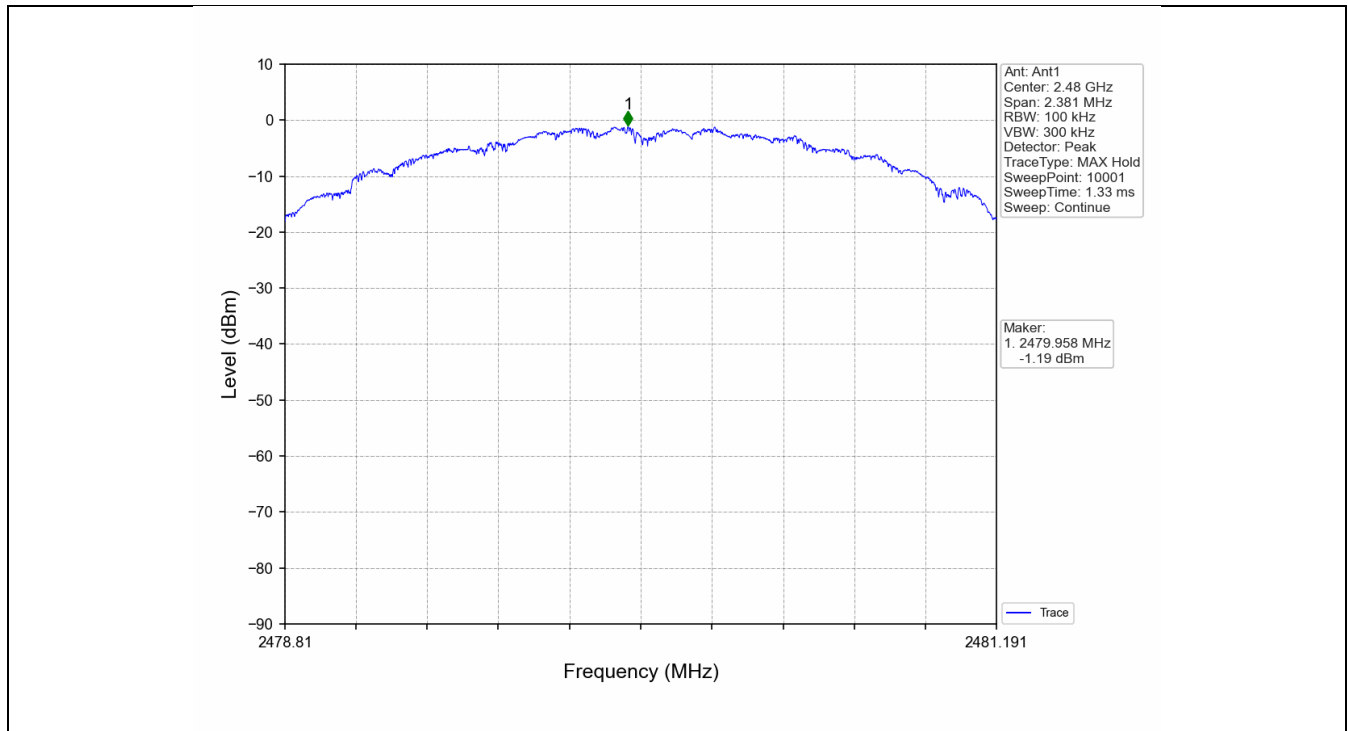
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
Zigbee	SISO	2405	1	<b>5.80</b>
		2440	1	5.65
		2475	1	5.76
		2480	1	-1.19

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 Test Graph







## 5.2 CSE

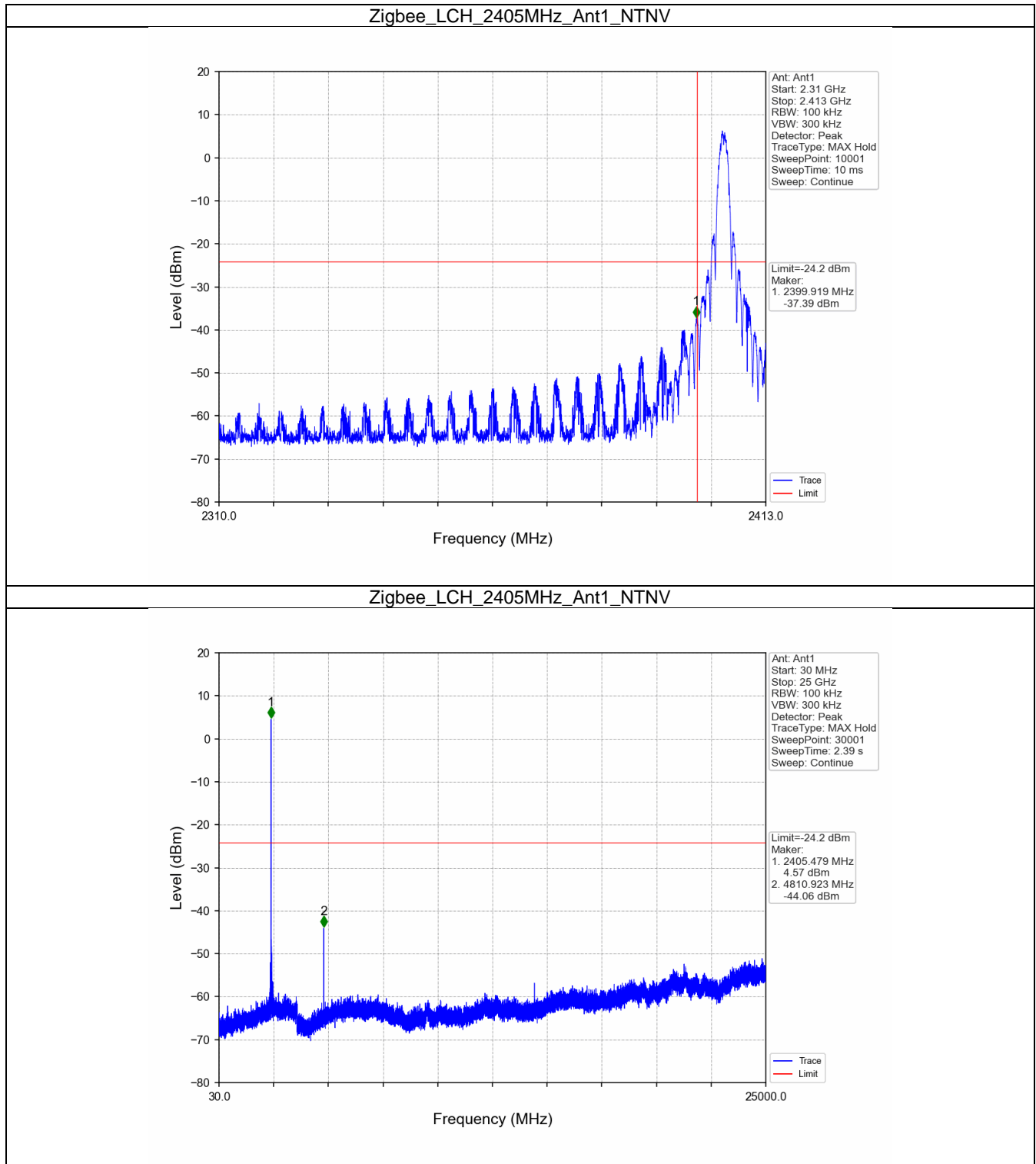
### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
Zigbee	SISO	2405	1	5.80	-24.20	Pass
		2440	1	5.80	-24.20	Pass
		2475	1	5.80	-24.20	Pass
		2480	1	5.80	-24.20	Pass

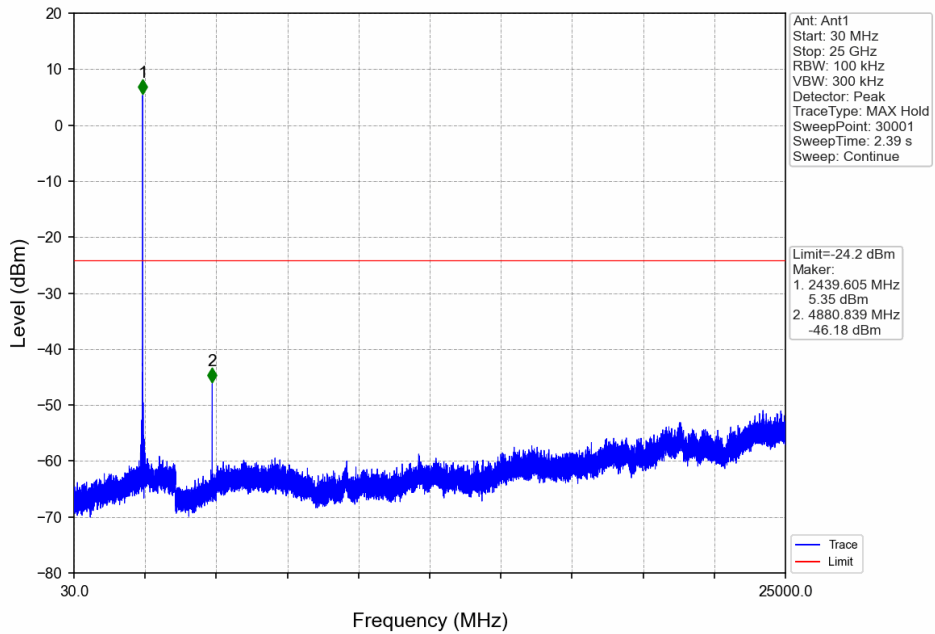
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



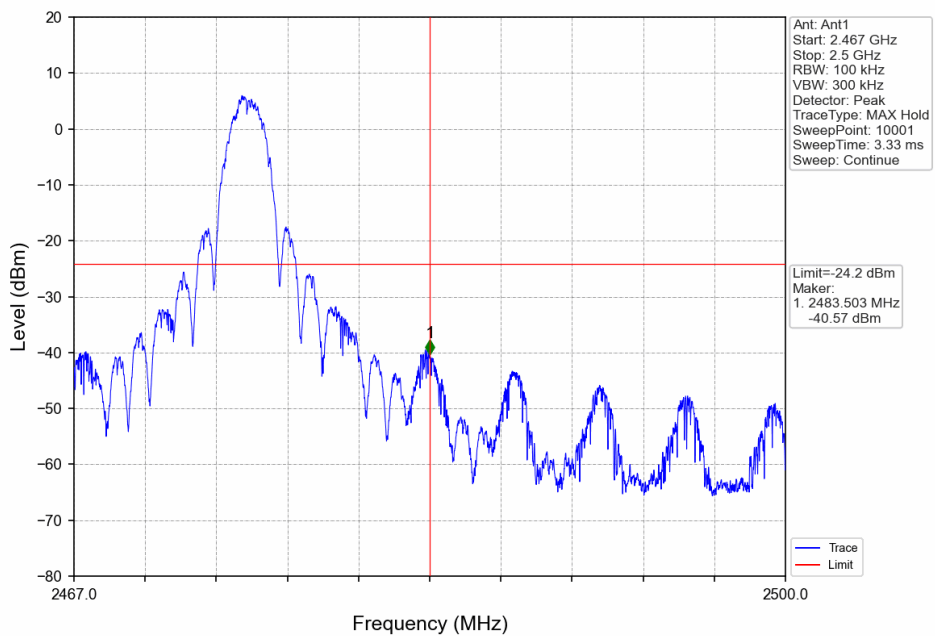
5.2.2 Test Graph



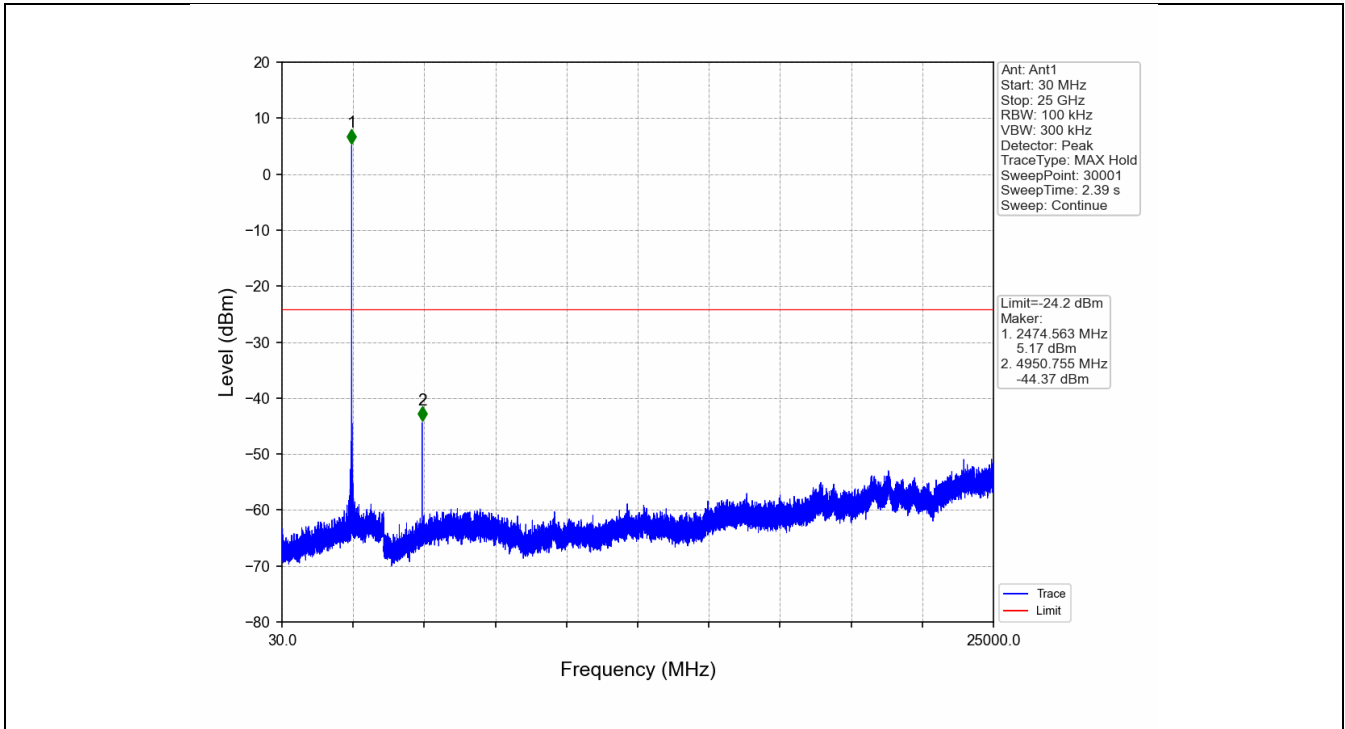
Zigbee\_MCH\_2440MHz\_Ant1\_NTNV



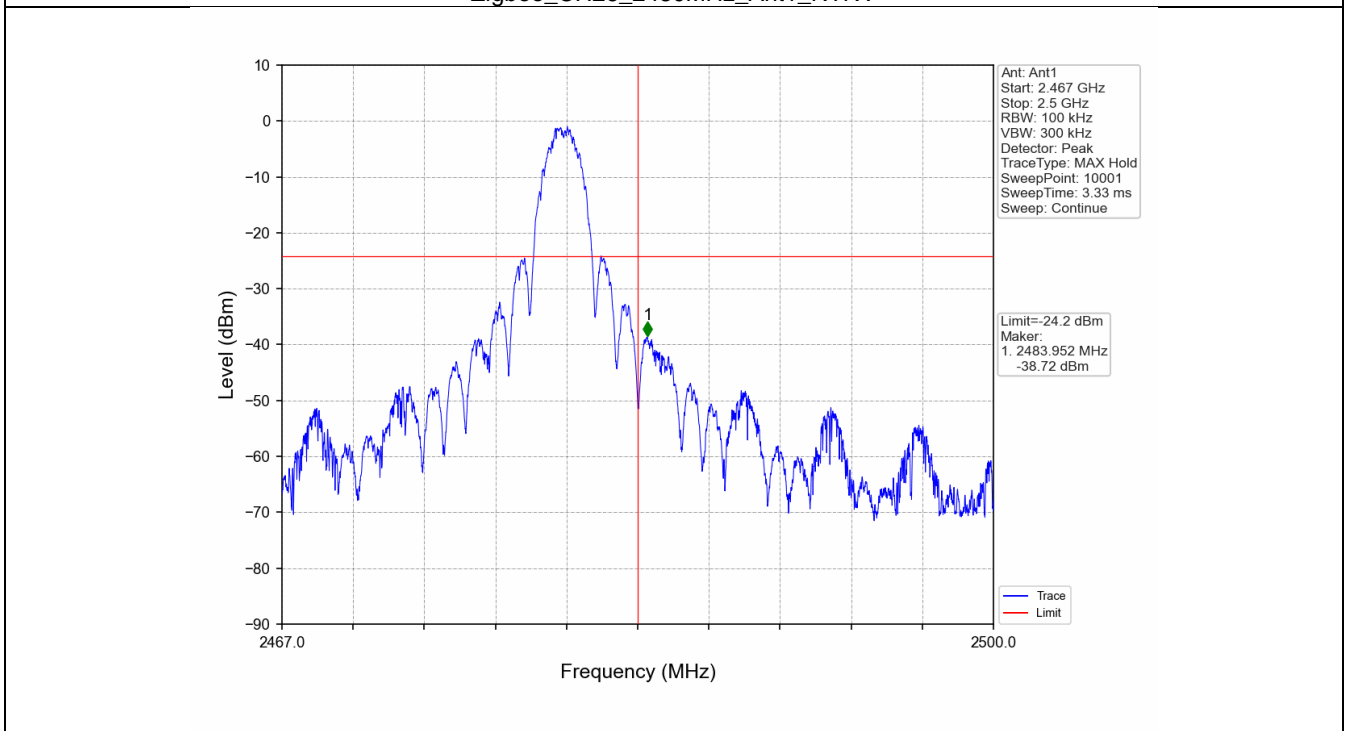
Zigbee\_HCH\_2475MHz\_Ant1\_NTNV



Zigbee\_HCH\_2475MHz\_Ant1\_NTNV



Zigbee\_CH26\_2480MHz\_Ant1\_NTNV



Zigbee\_CH26\_2480MHz\_Ant1\_NTNV

