

## 10 Appendix

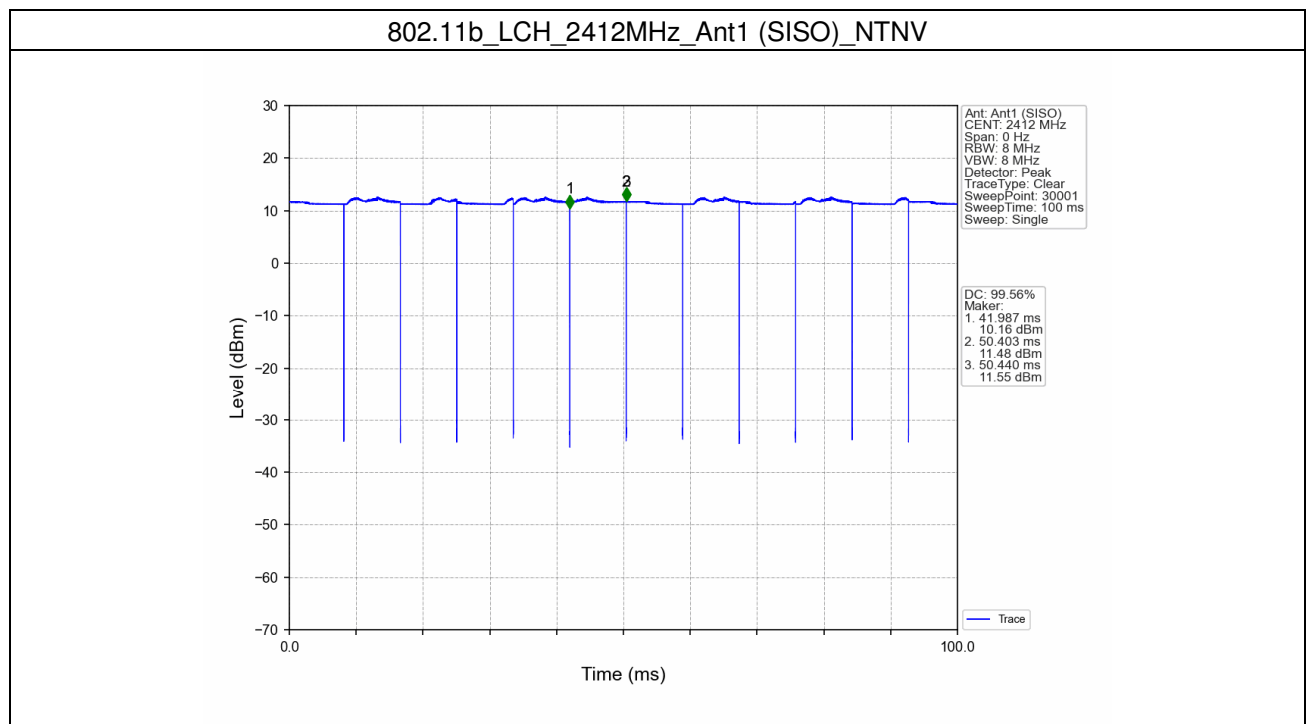
### 1. Duty Cycle

#### 1.1 Ant1

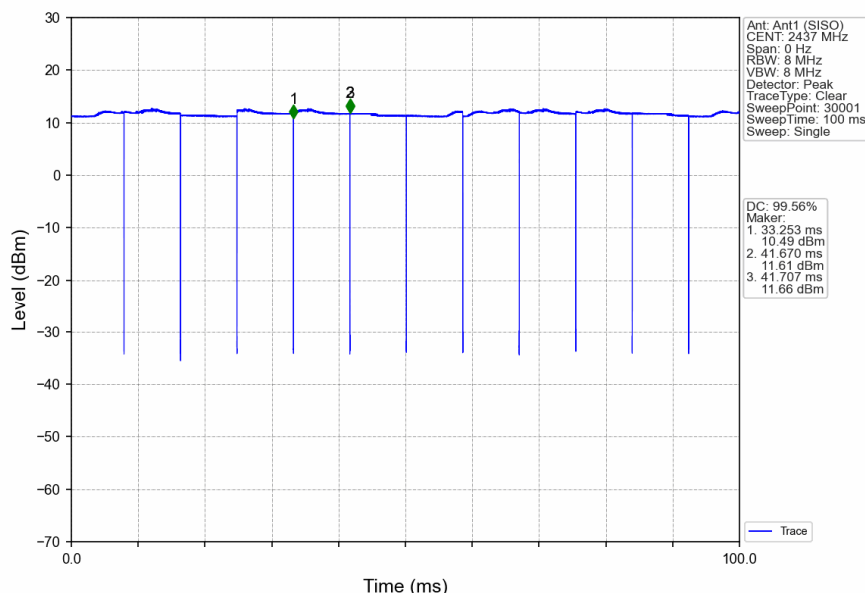
##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.416	8.453	99.56	0.02	0.04
		2437	8.417	8.454	99.56	0.02	0.04
		2462	8.417	8.453	99.57	0.02	0.04
802.11g	SISO	2412	1.397	1.439	97.08	0.13	0.03
		2437	1.396	1.438	97.08	0.13	0.03
		2462	1.397	1.440	97.01	0.13	0.06
802.11n (HT20)	SISO	2412	1.308	1.351	96.82	0.14	0.07
		2437	1.308	1.351	96.82	0.14	0.03
		2462	1.308	1.351	96.82	0.14	0.03

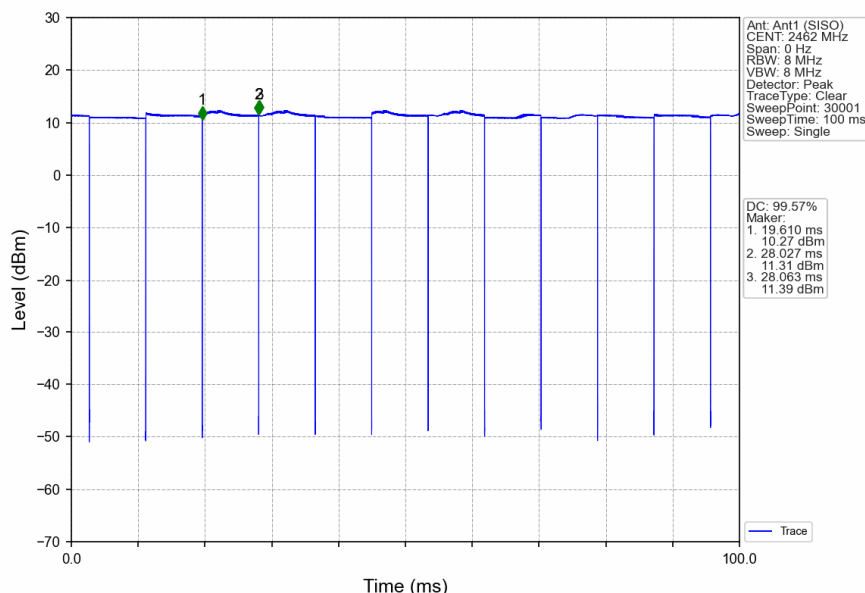
##### 1.1.2 Test Graph



### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



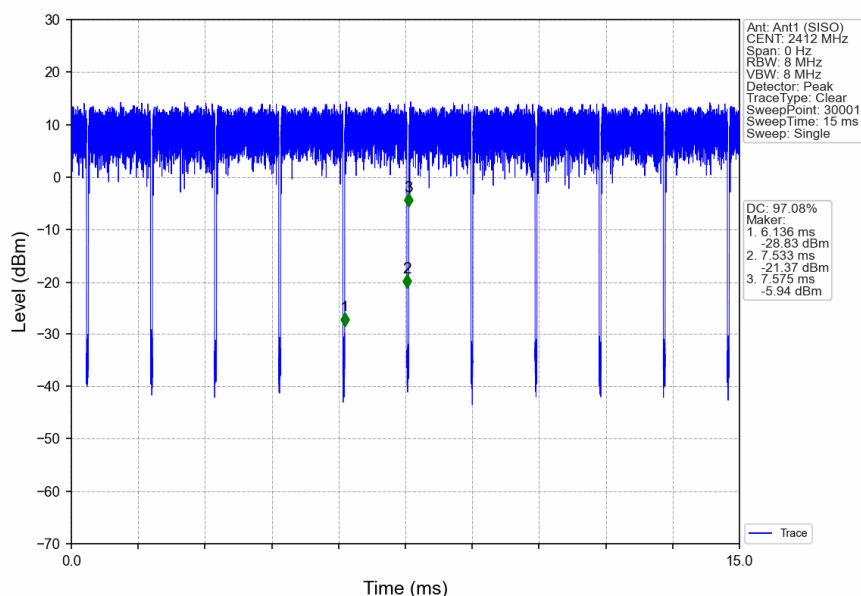
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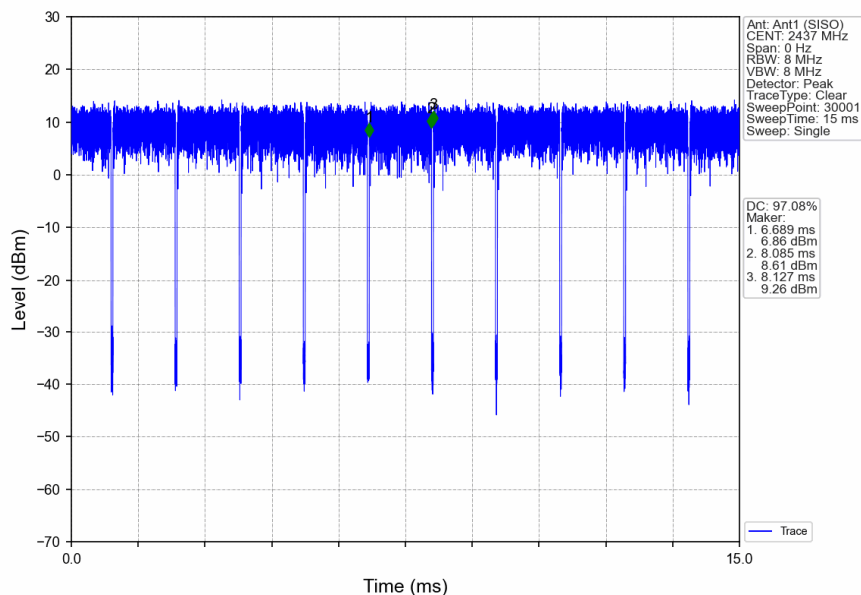
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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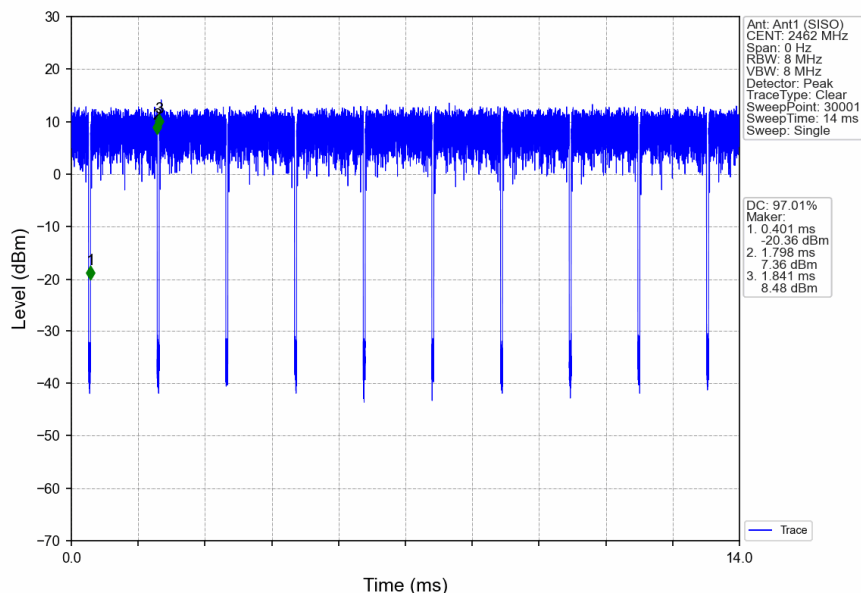
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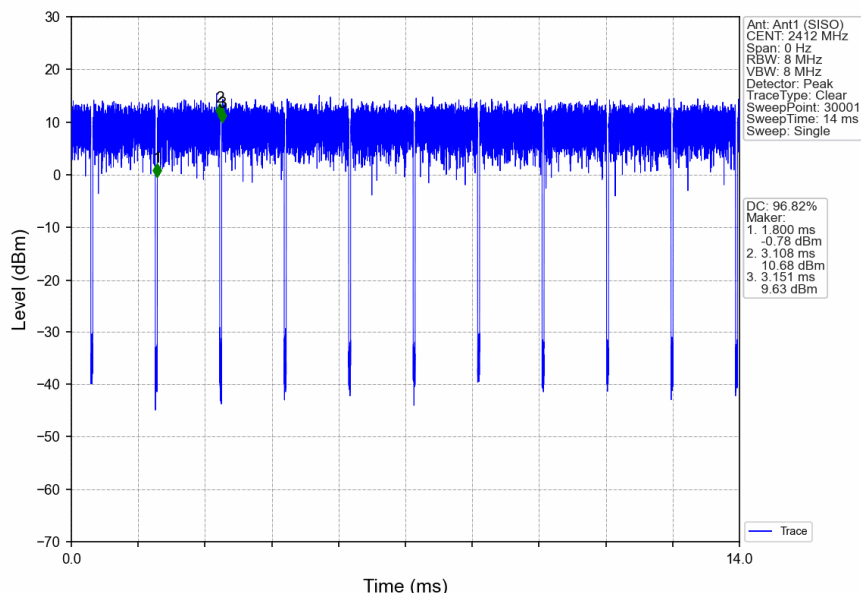
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



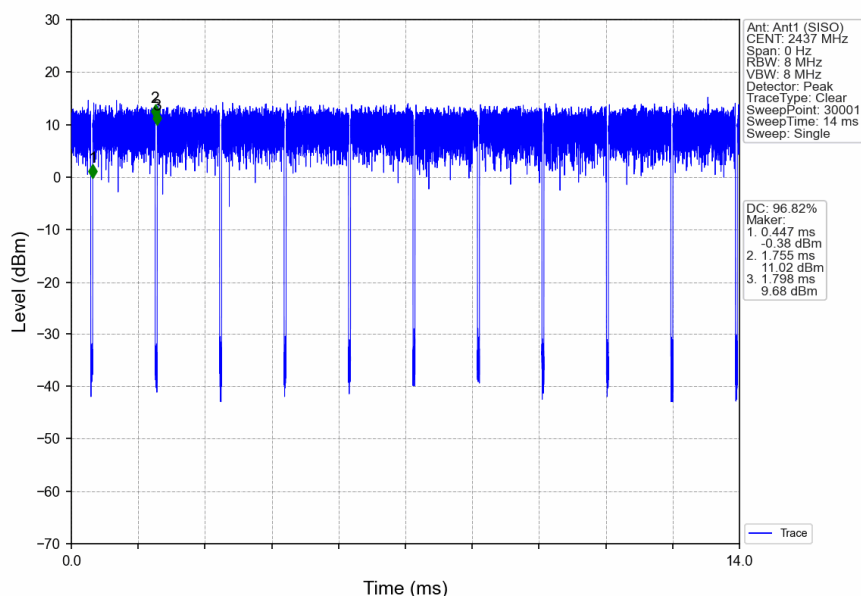
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



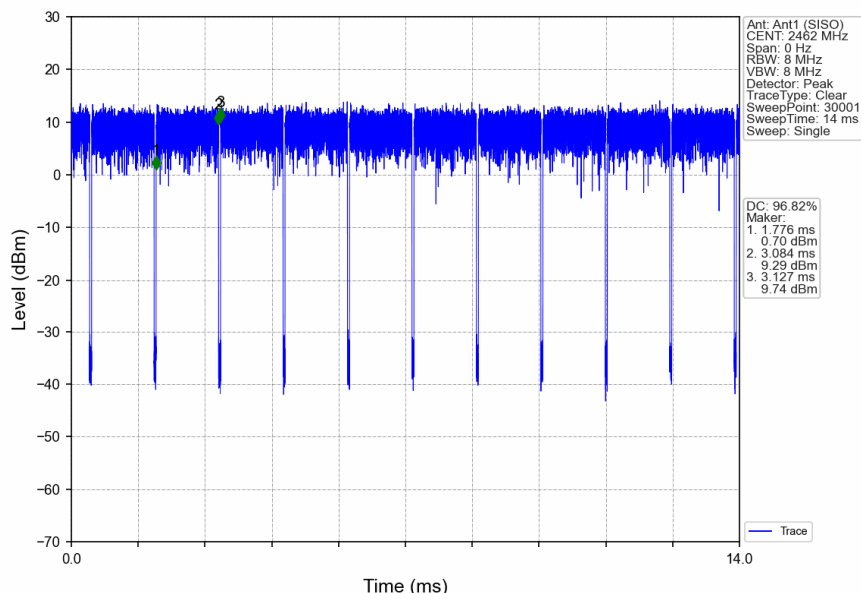
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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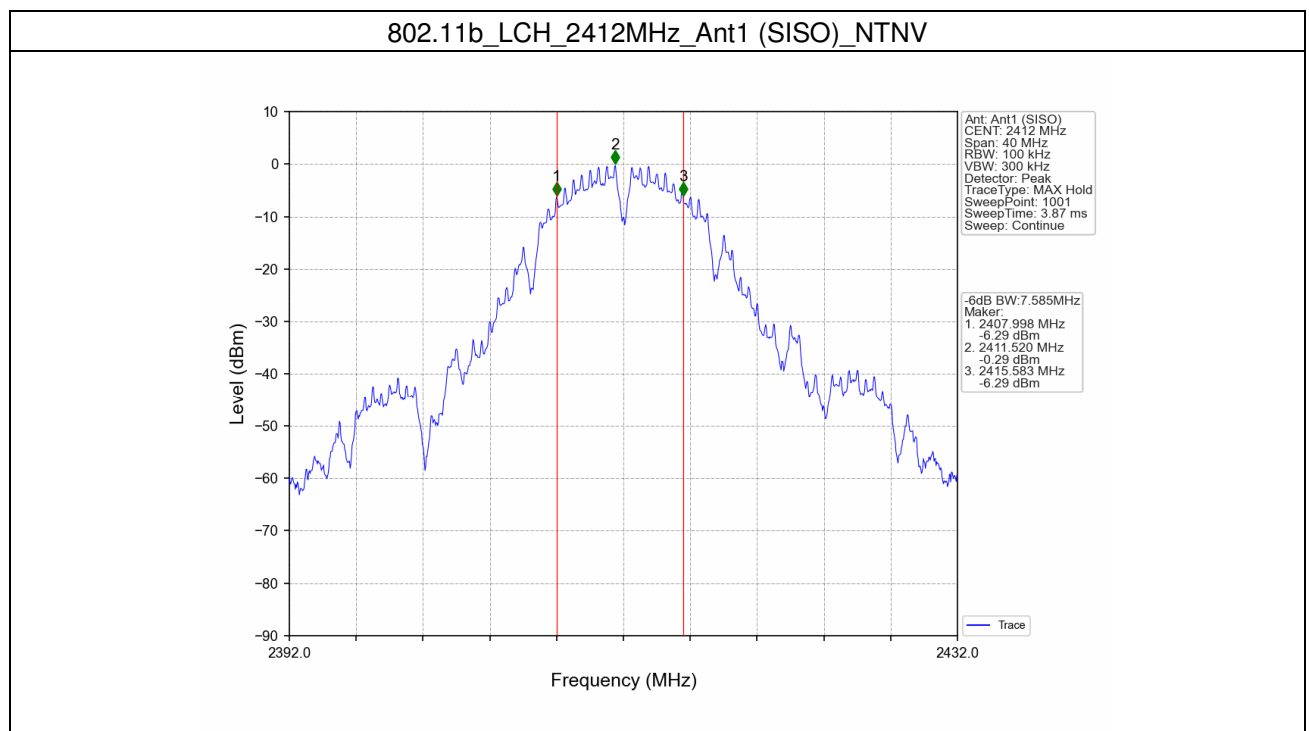
## 2. Bandwidth

### 2.1 6dB BW

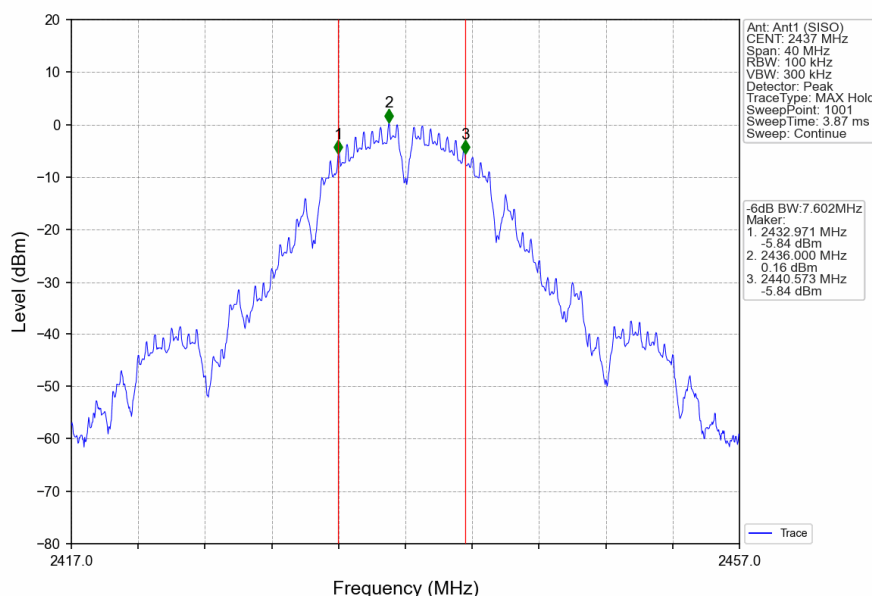
#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.585	$\geq 0.5$	Pass
		2437	1	7.602	$\geq 0.5$	Pass
		2462	1	7.577	$\geq 0.5$	Pass
802.11g	SISO	2412	1	15.365	$\geq 0.5$	Pass
		2437	1	15.451	$\geq 0.5$	Pass
		2462	1	15.208	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	15.207	$\geq 0.5$	Pass
		2437	1	15.236	$\geq 0.5$	Pass
		2462	1	15.220	$\geq 0.5$	Pass

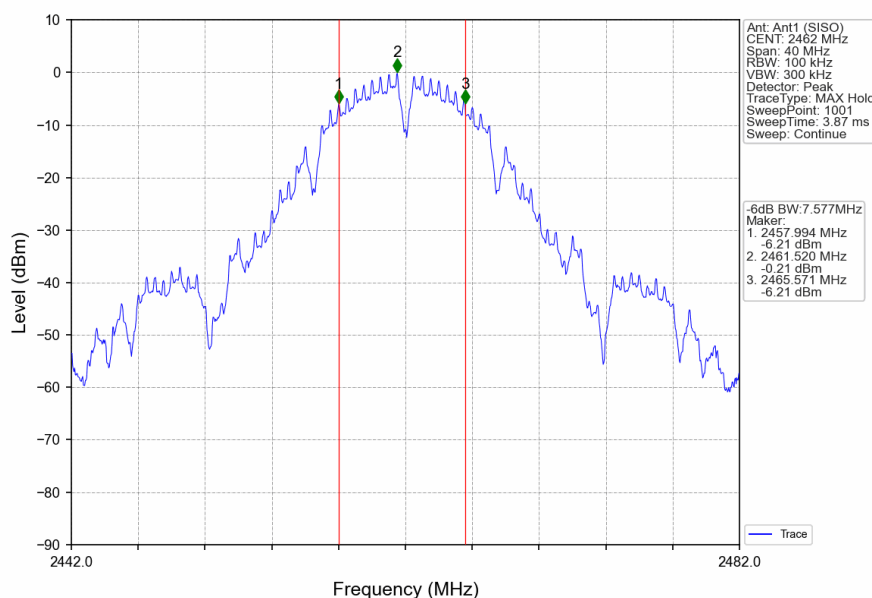
#### 2.1.2 Test Graph



### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



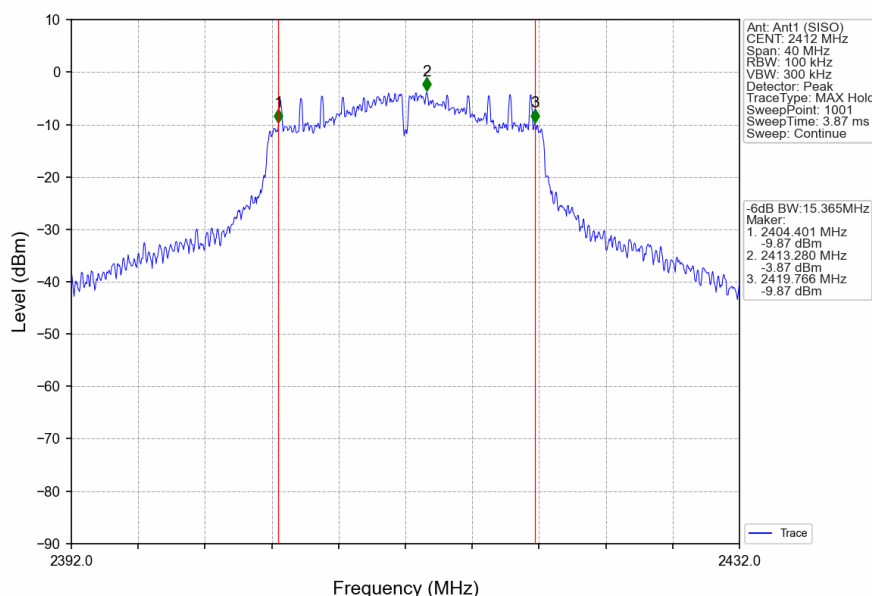
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



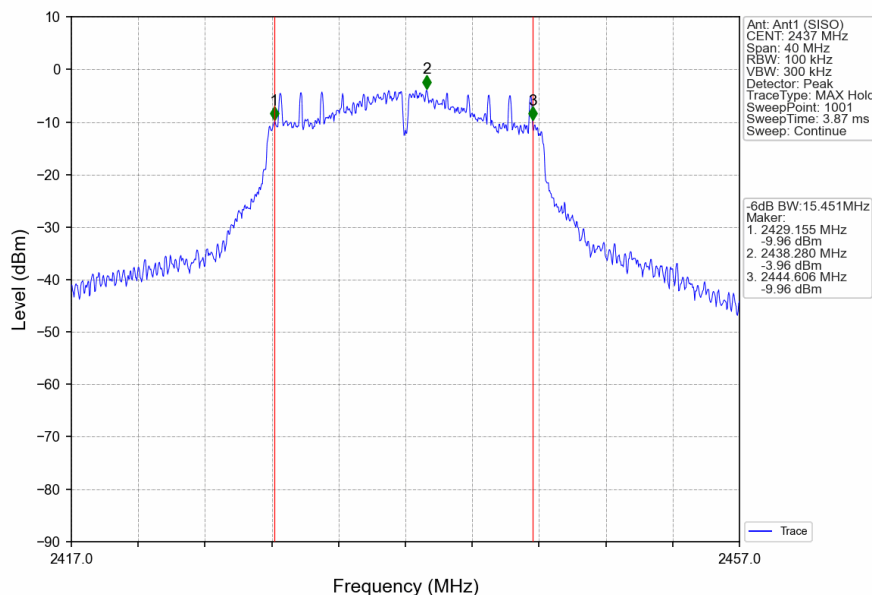
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

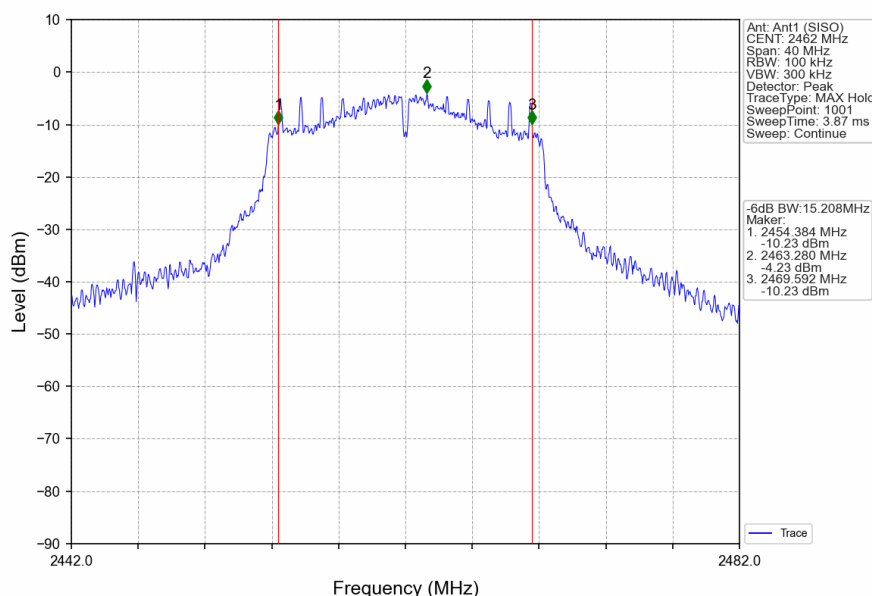


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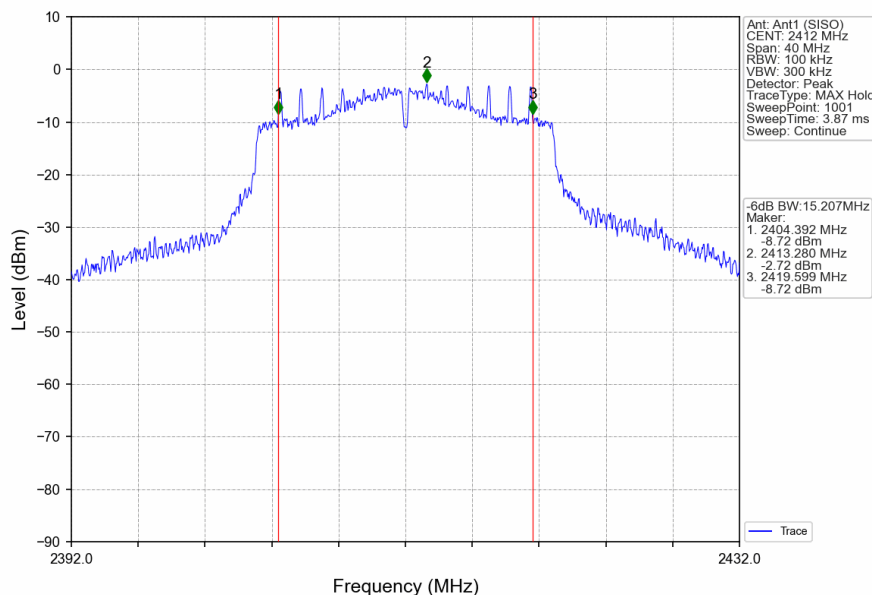
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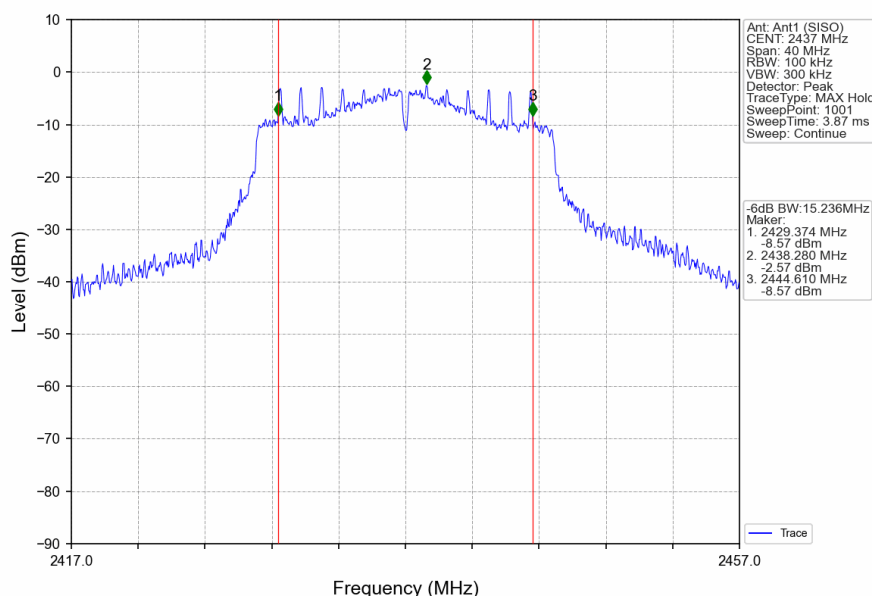
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



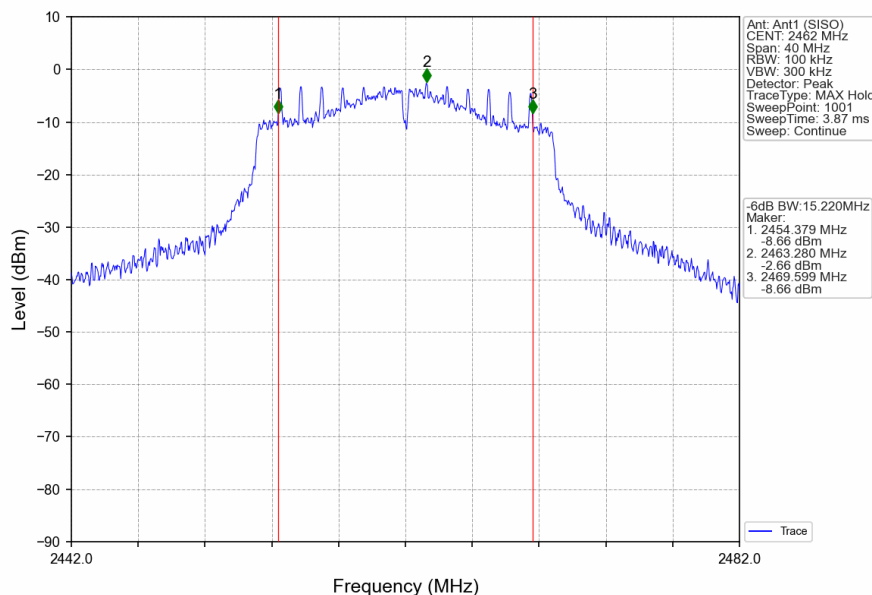
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	12.62	<=30	Pass
		2437	12.80	<=30	Pass
		2462	12.33	<=30	Pass
802.11g	SISO	2412	15.05	<=30	Pass
		2437	14.98	<=30	Pass
		2462	14.53	<=30	Pass
802.11n (HT20)	SISO	2412	15.59	<=30	Pass
		2437	15.59	<=30	Pass
		2462	15.27	<=30	Pass

Note1: Antenna Gain: Ant1: 2.16 dBi;



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### 4. Maximum Power Spectral Density

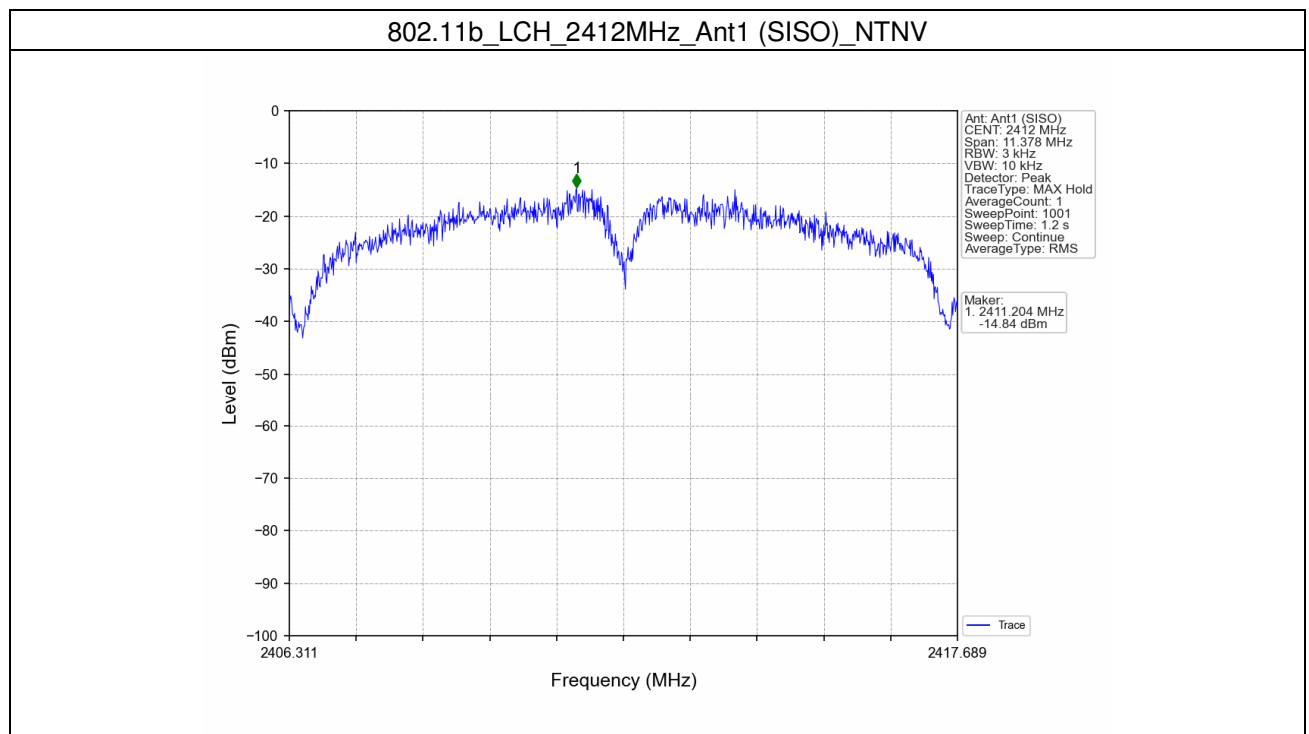
#### 4.1 PSD

##### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-14.84	<=8	Pass
		2437	-14.51	<=8	Pass
		2462	-13.78	<=8	Pass
802.11g	SISO	2412	-15.44	<=8	Pass
		2437	-15.87	<=8	Pass
		2462	-15.63	<=8	Pass
802.11n (HT20)	SISO	2412	-15.30	<=8	Pass
		2437	-16.03	<=8	Pass
		2462	-16.07	<=8	Pass

Note1: Antenna Gain: Ant1: 2.16 dBi;

##### 4.1.2 Test Graph

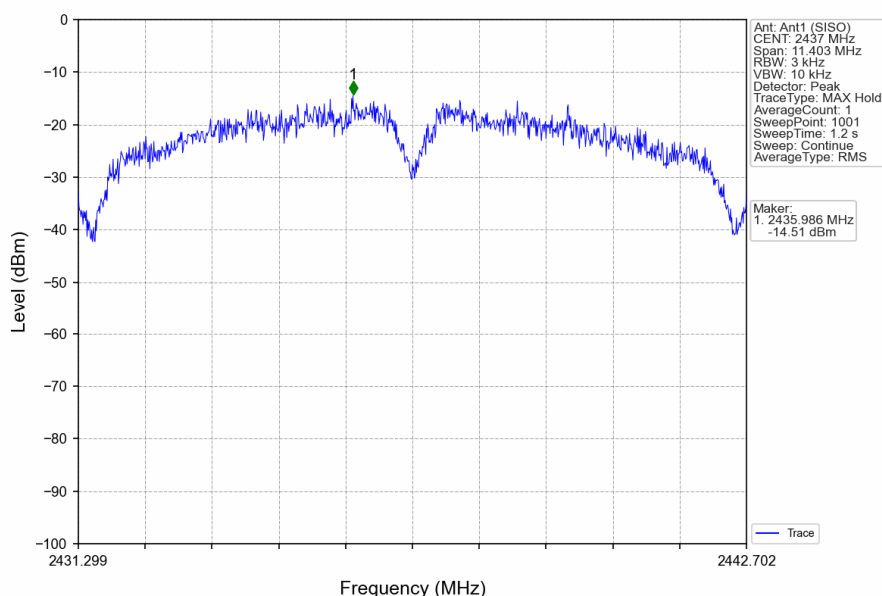


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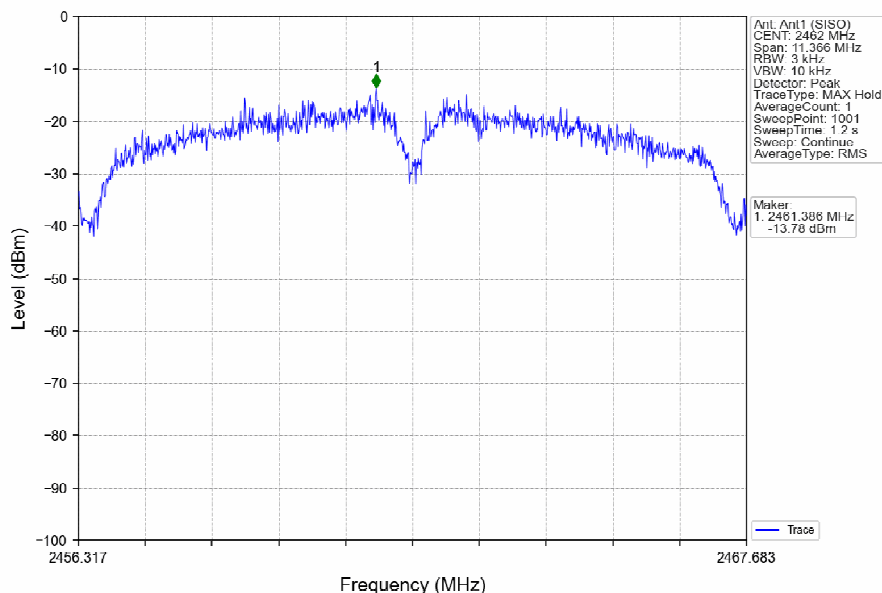
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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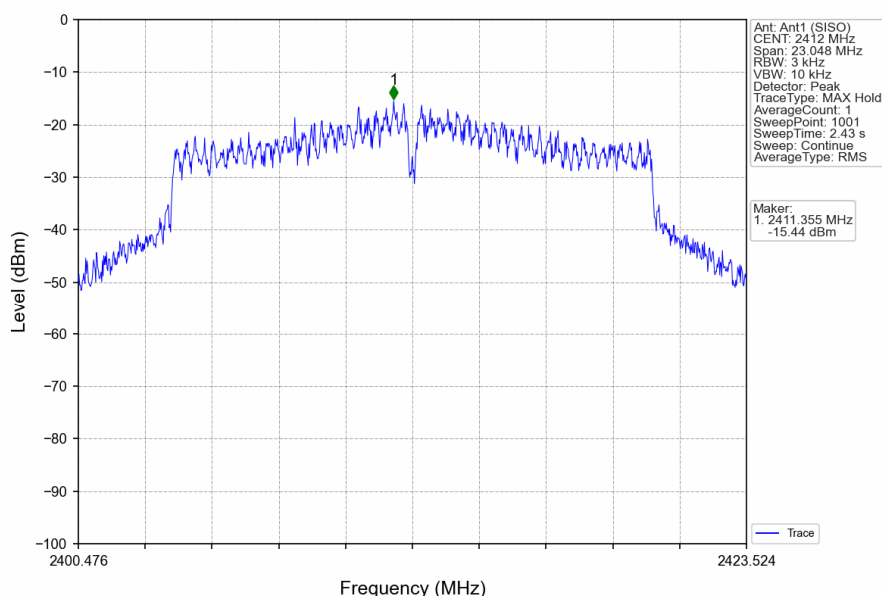
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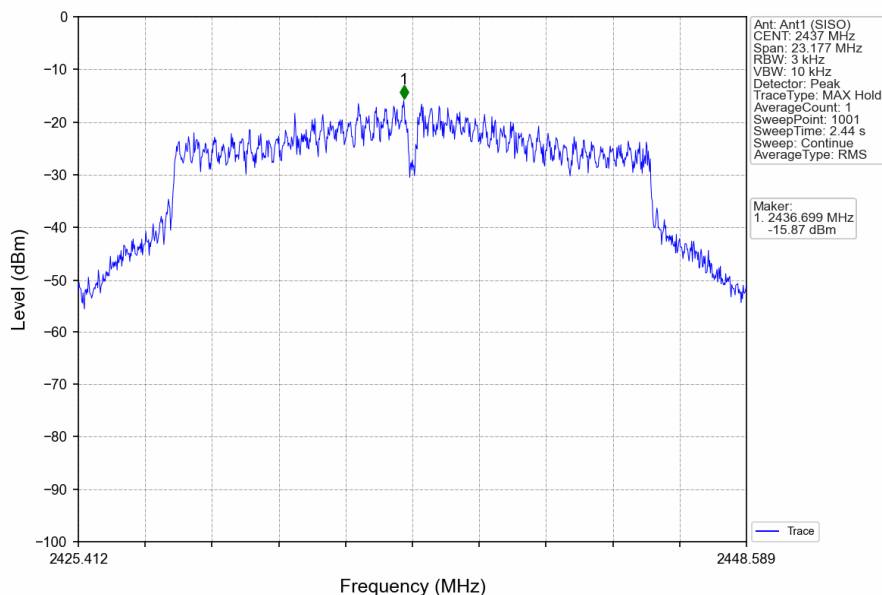
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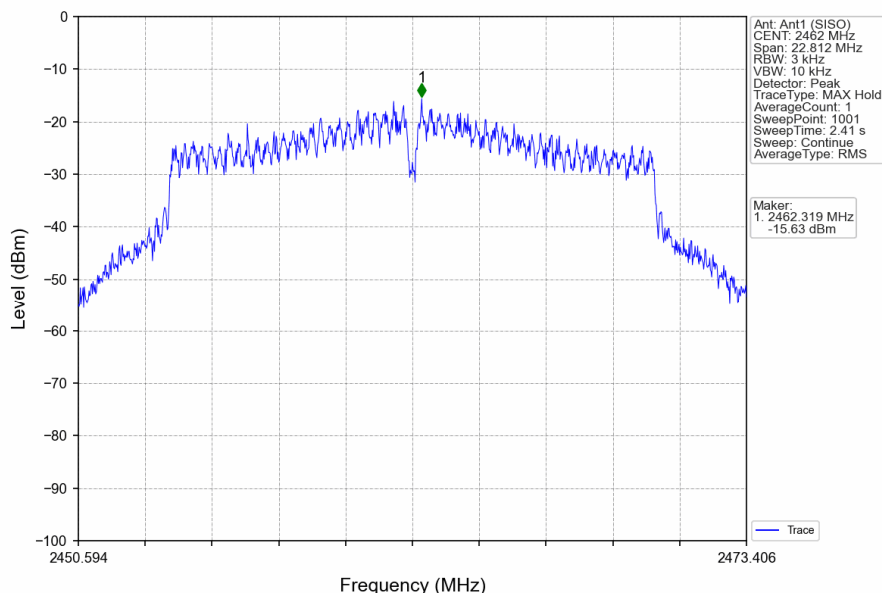
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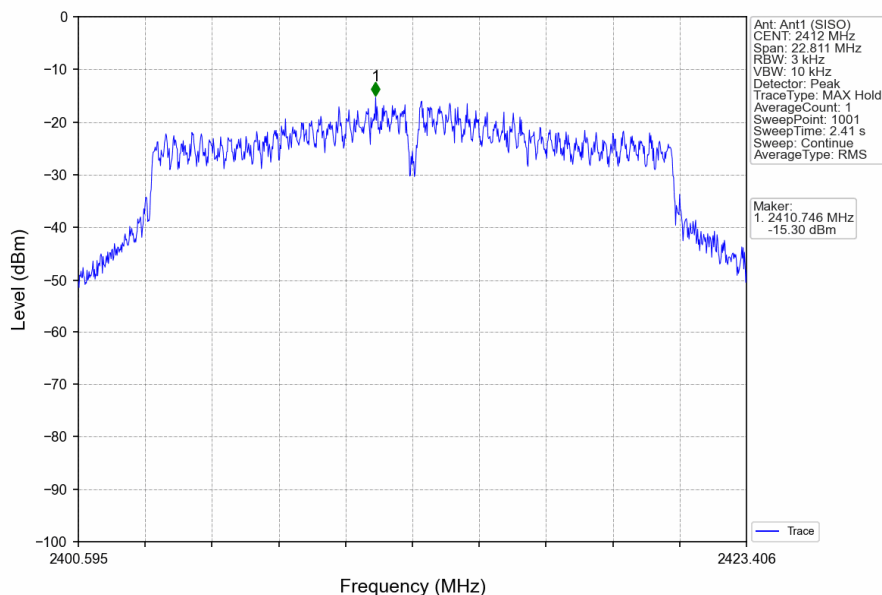
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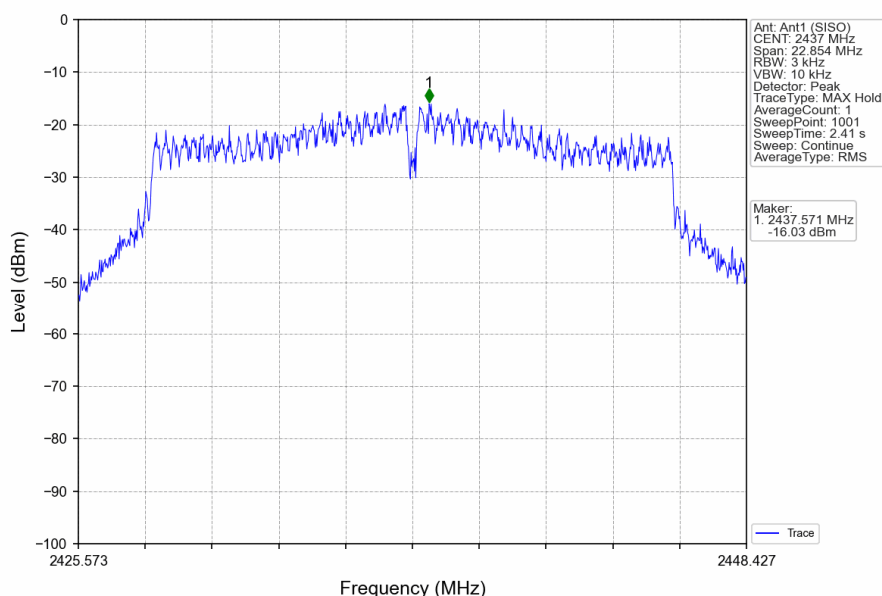
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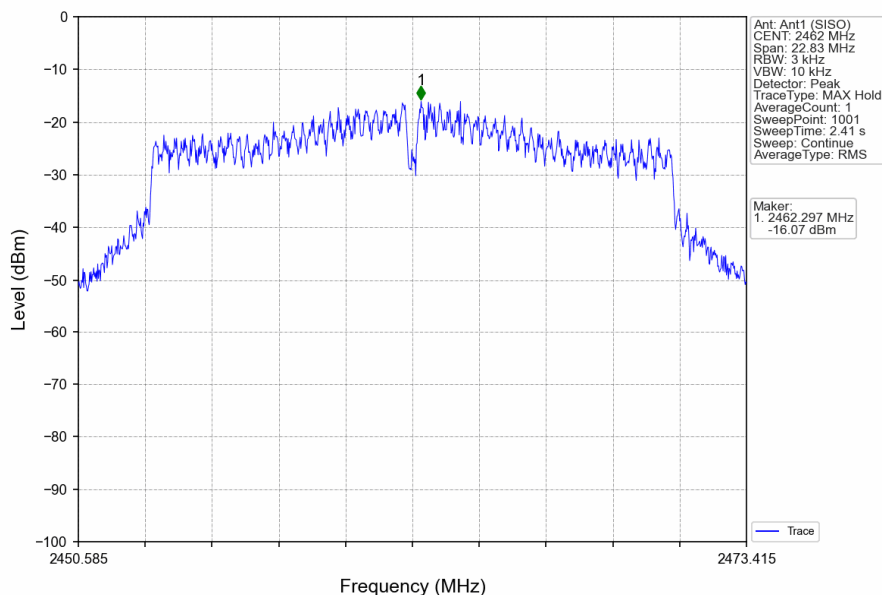
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

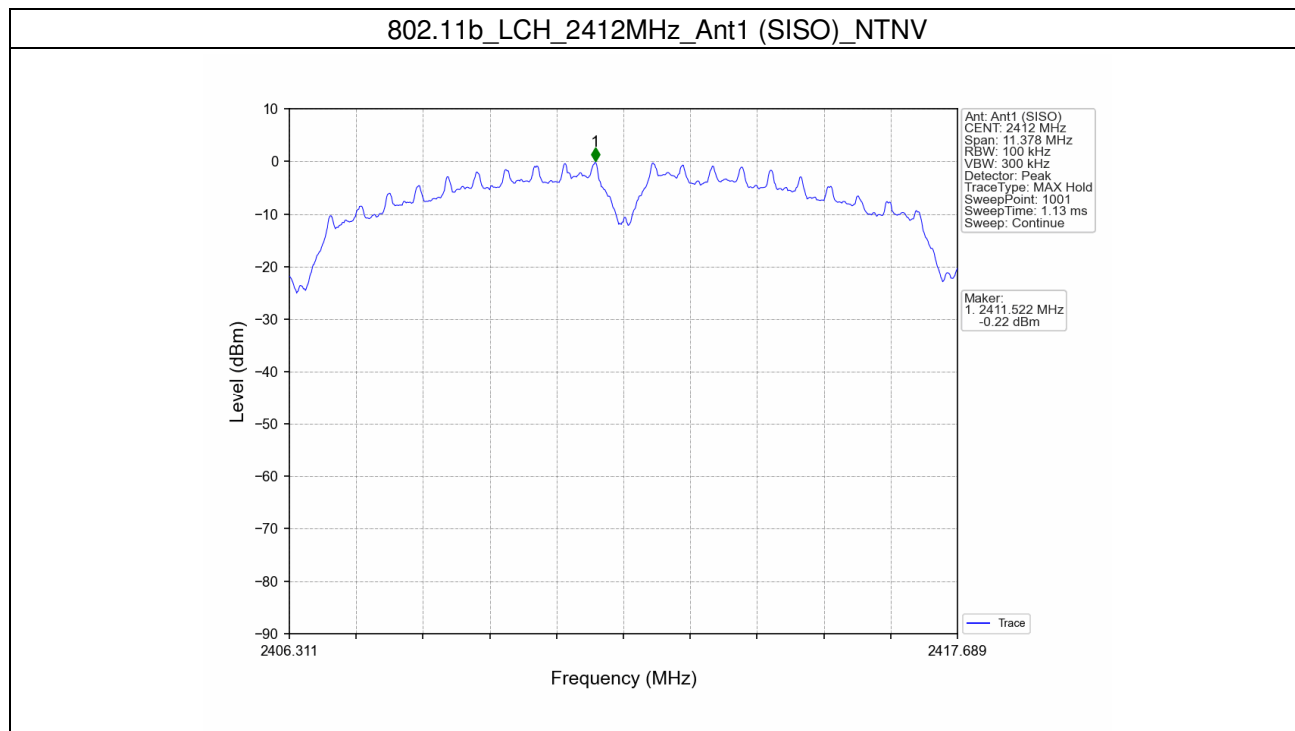
#### 5.1 Ref

##### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.22
		2437	1	-0.05
		2462	1	-0.37
802.11g	SISO	2412	1	-3.95
		2437	1	-4.04
		2462	1	-4.10
802.11n (HT20)	SISO	2412	1	-2.95
		2437	1	-2.70
		2462	1	-2.64

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



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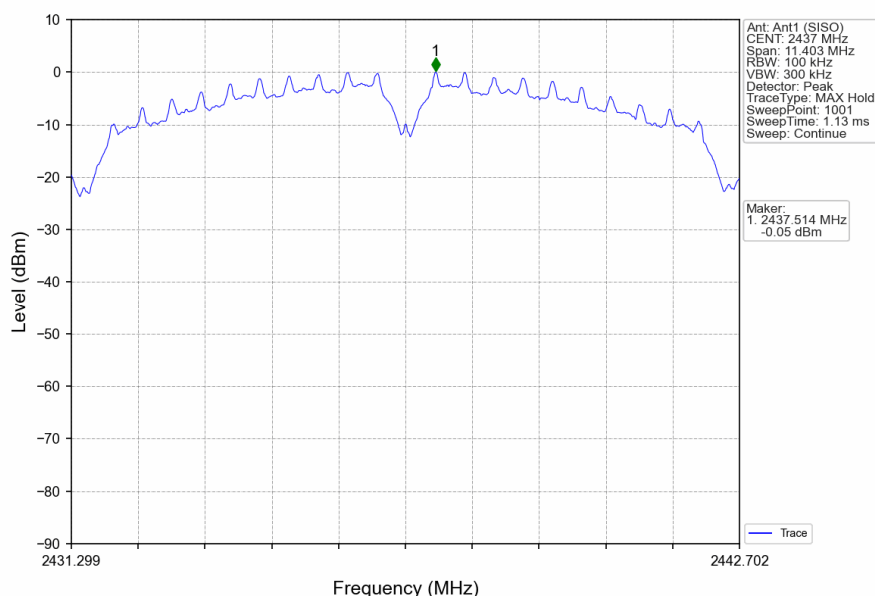
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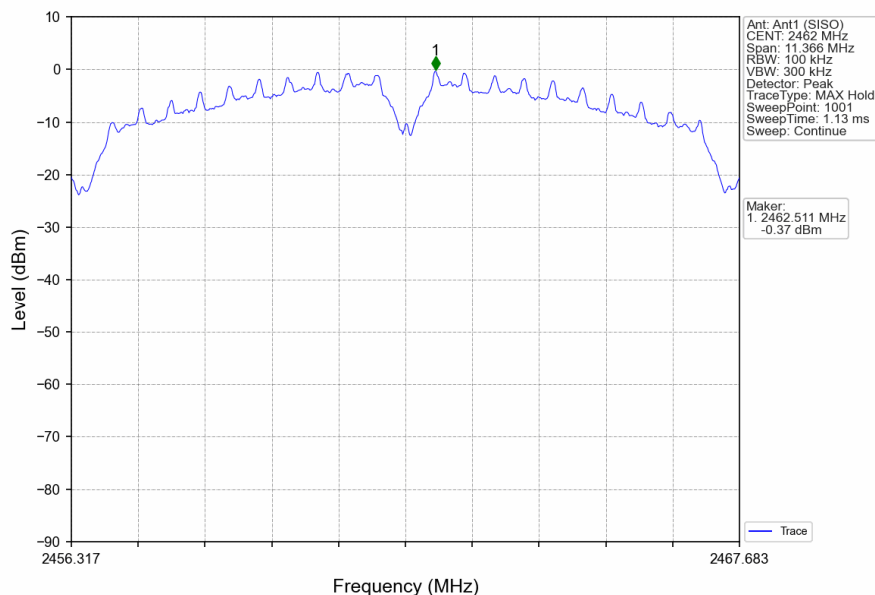
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

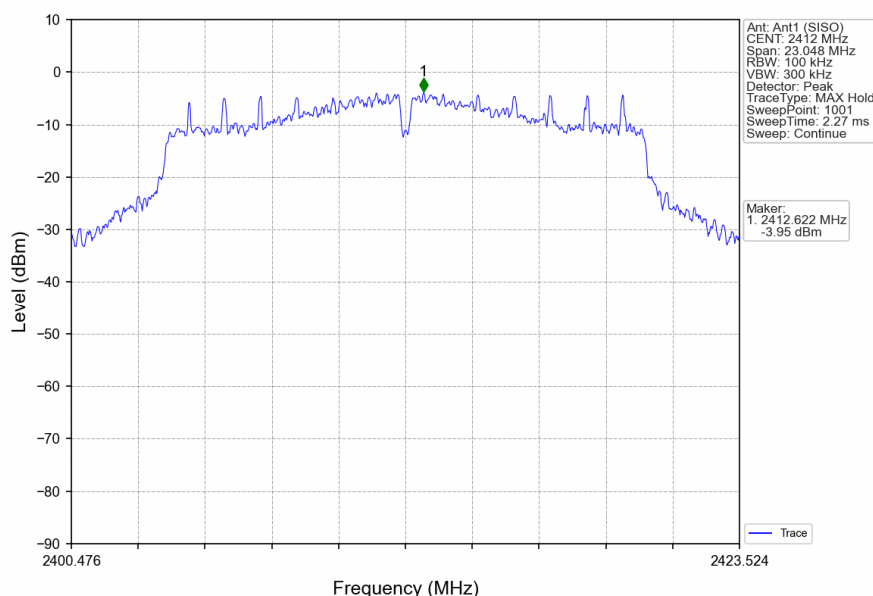


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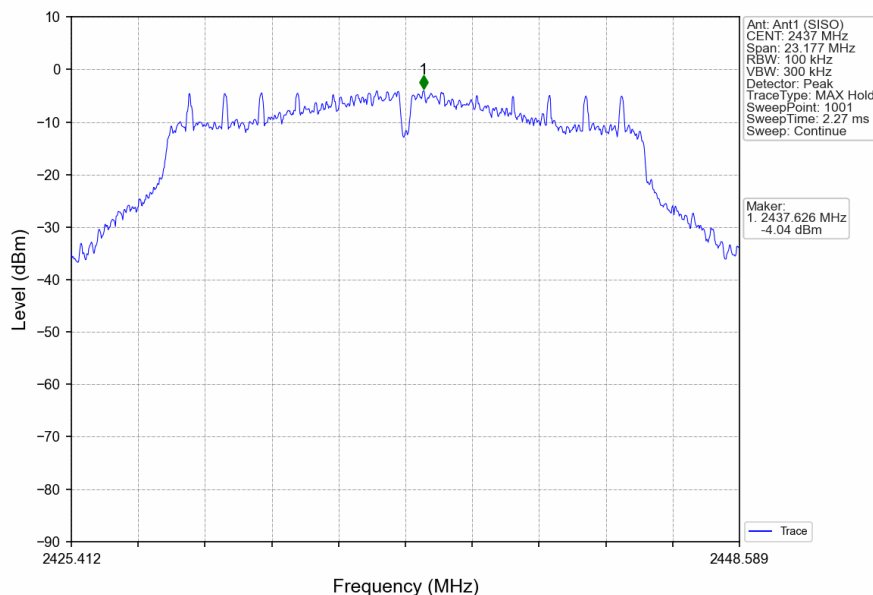
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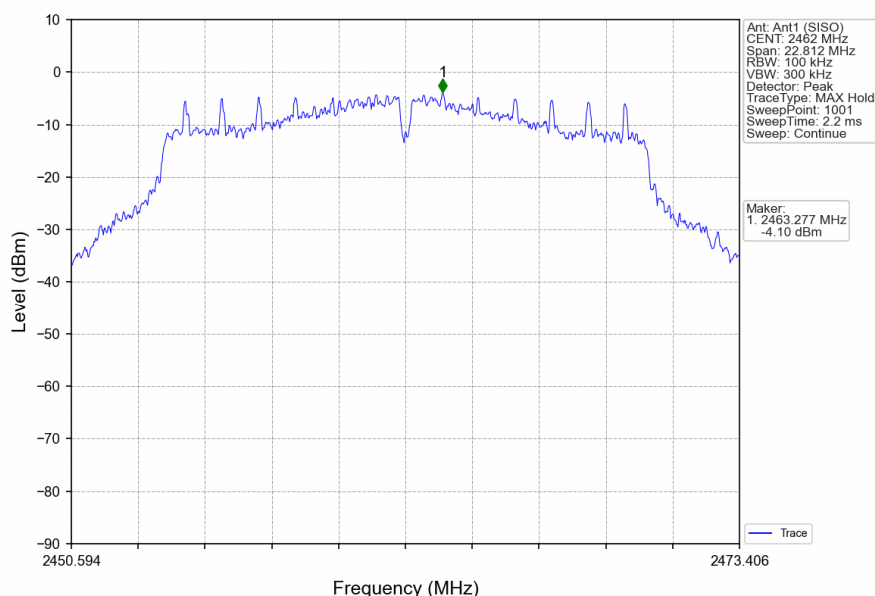
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



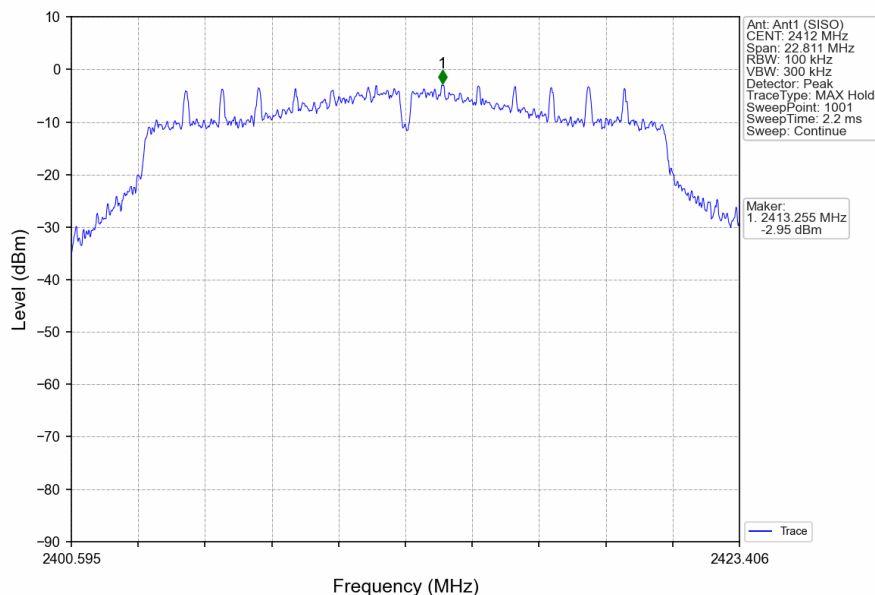
### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



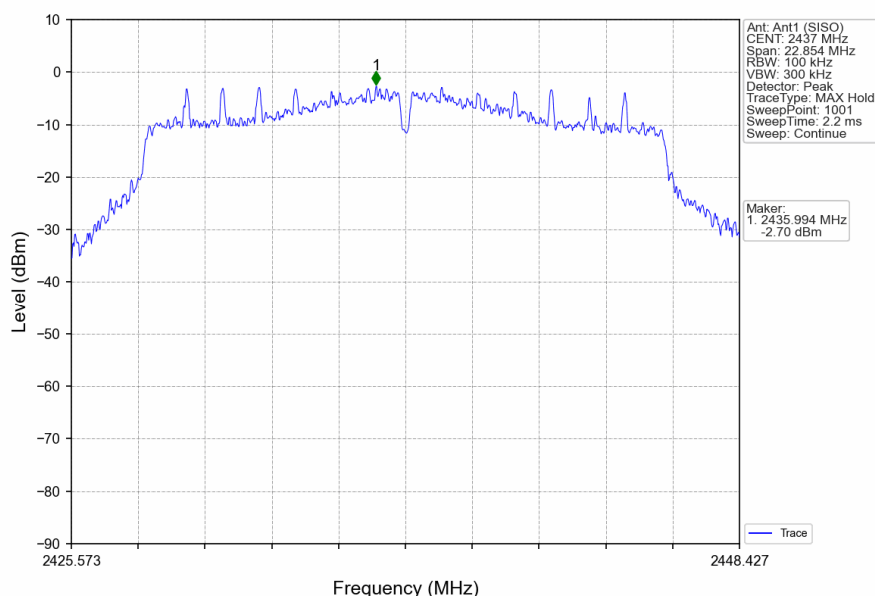
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



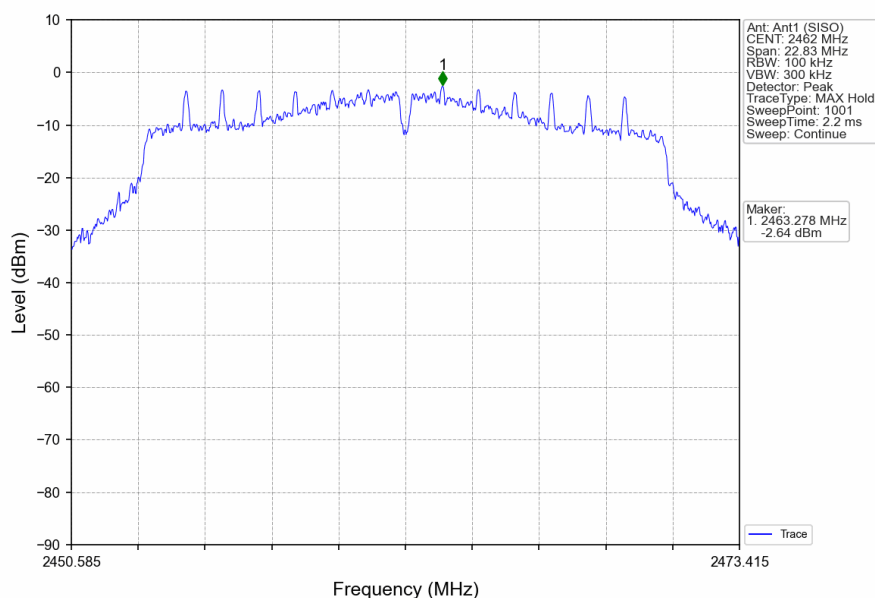
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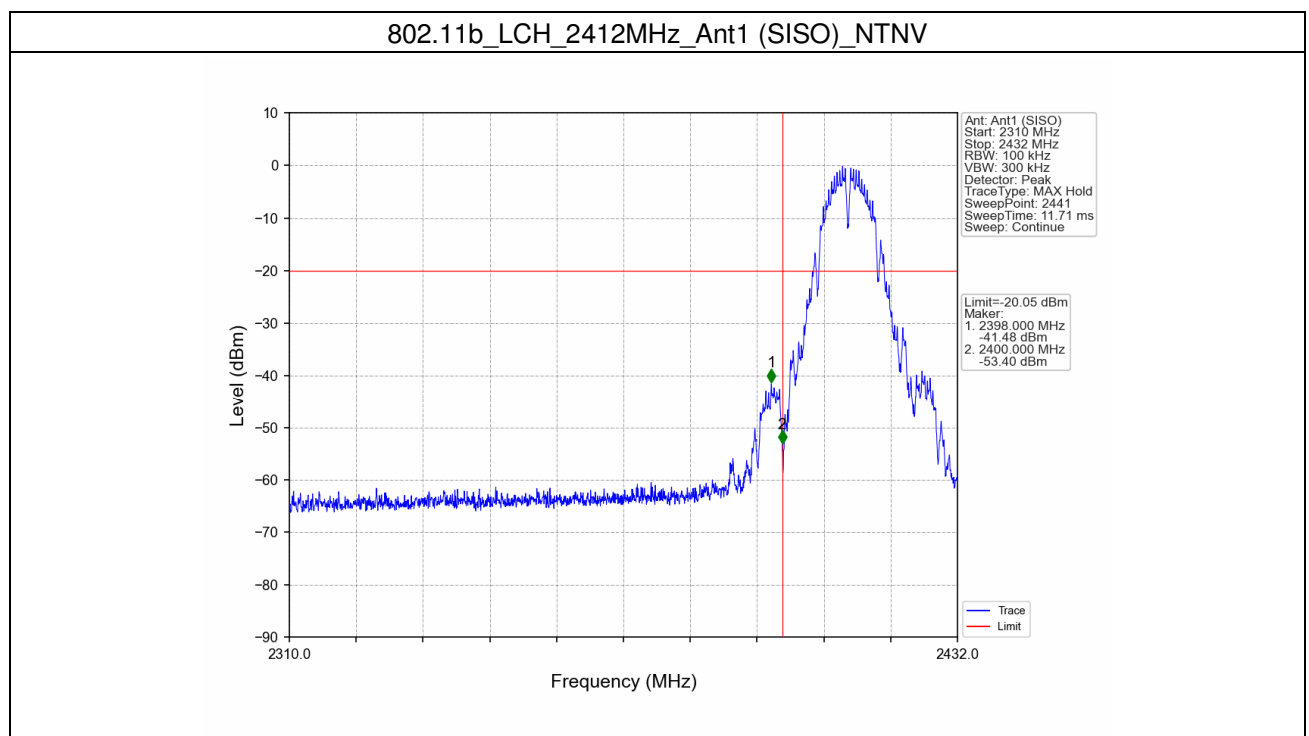
### 5.2 CSE and Band Edges

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.05	-20.05	Pass
		2437	1	-0.05	-20.05	Pass
		2462	1	-0.05	-20.05	Pass
802.11g	SISO	2412	1	-3.95	-23.95	Pass
		2437	1	-3.95	-23.95	Pass
		2462	1	-3.95	-23.95	Pass
802.11n (HT20)	SISO	2412	1	-2.64	-22.64	Pass
		2437	1	-2.64	-22.64	Pass
		2462	1	-2.64	-22.64	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

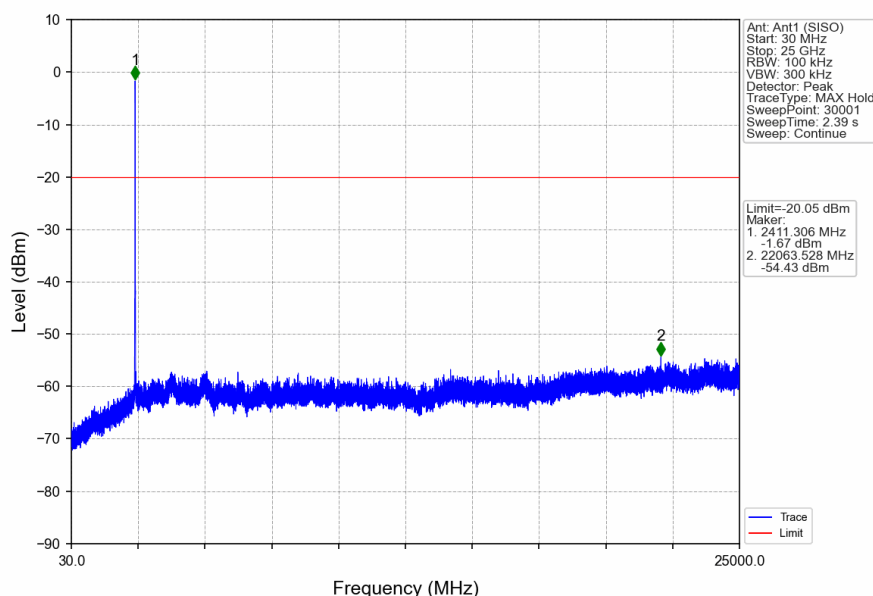


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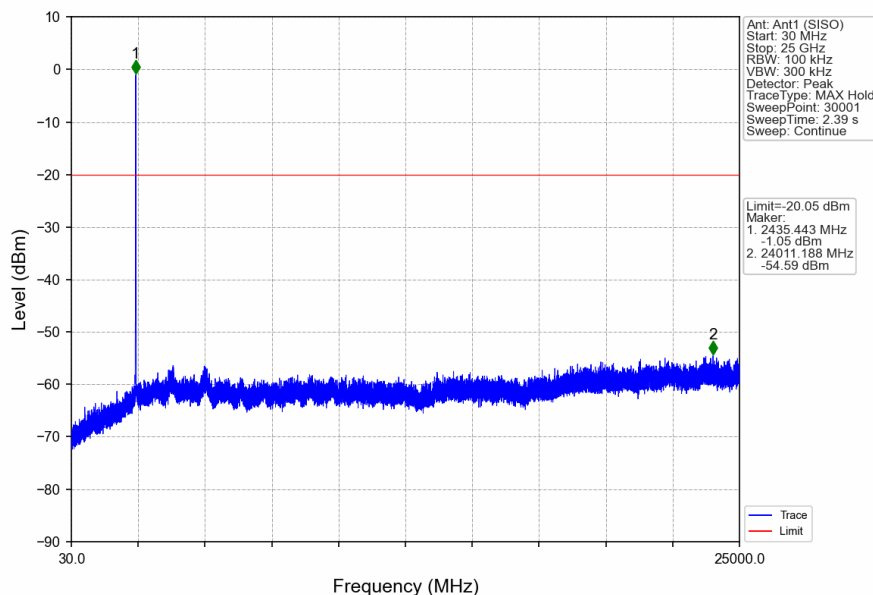
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### 802.11b\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

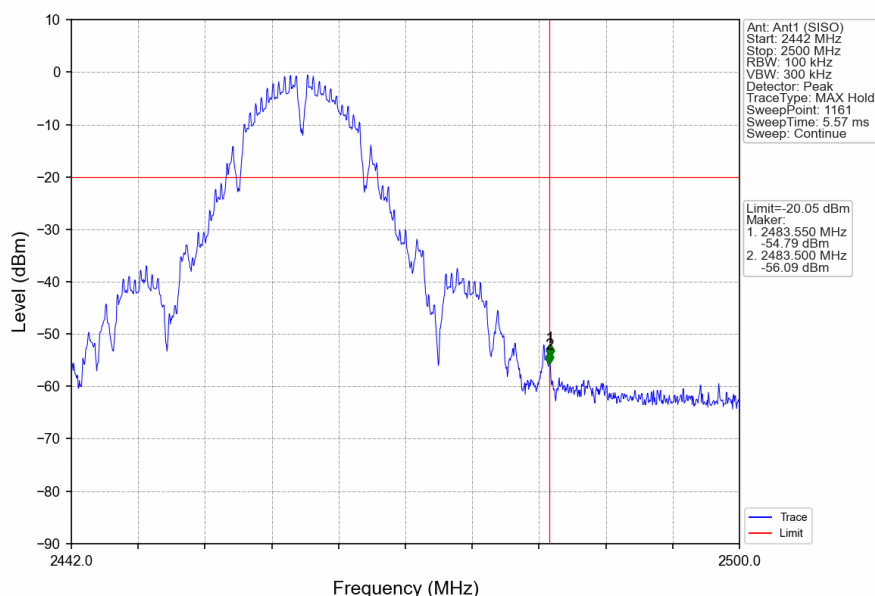


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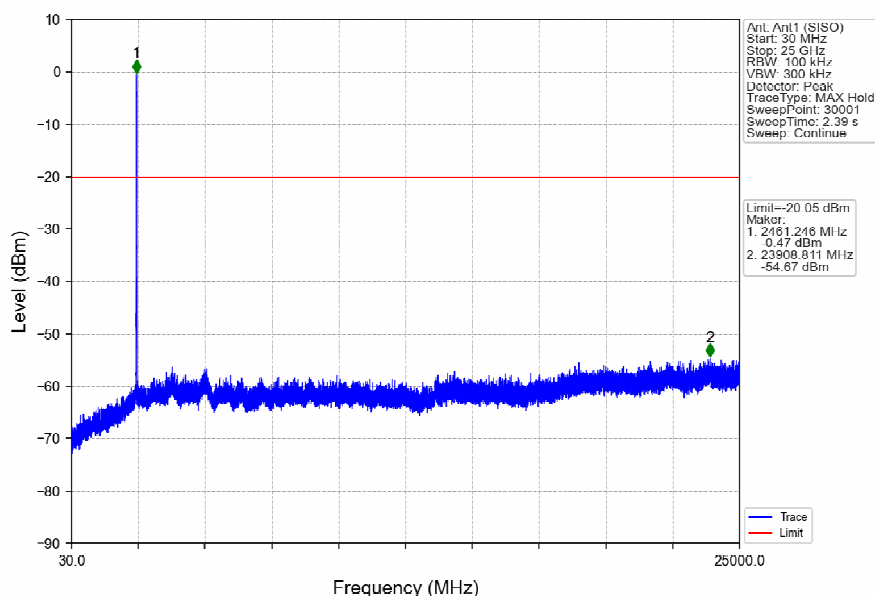
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



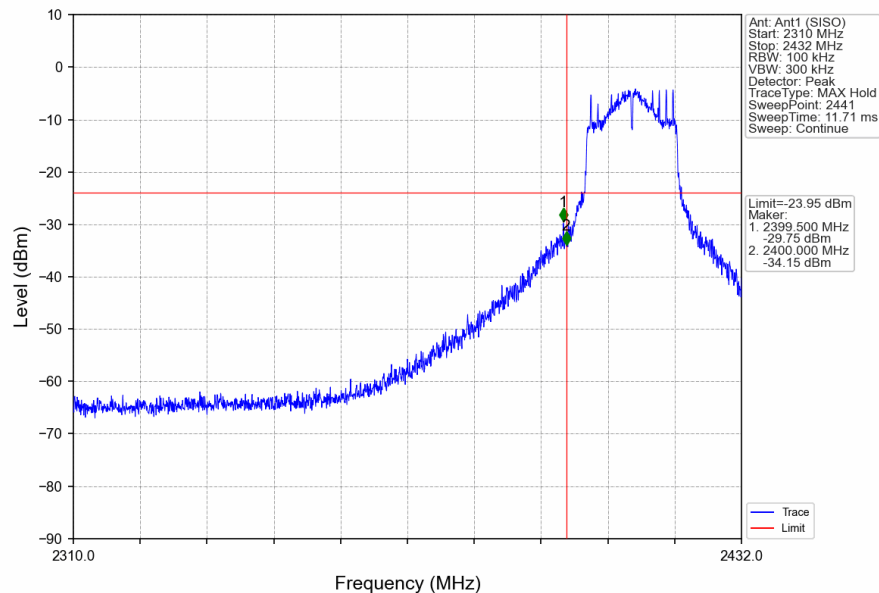
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



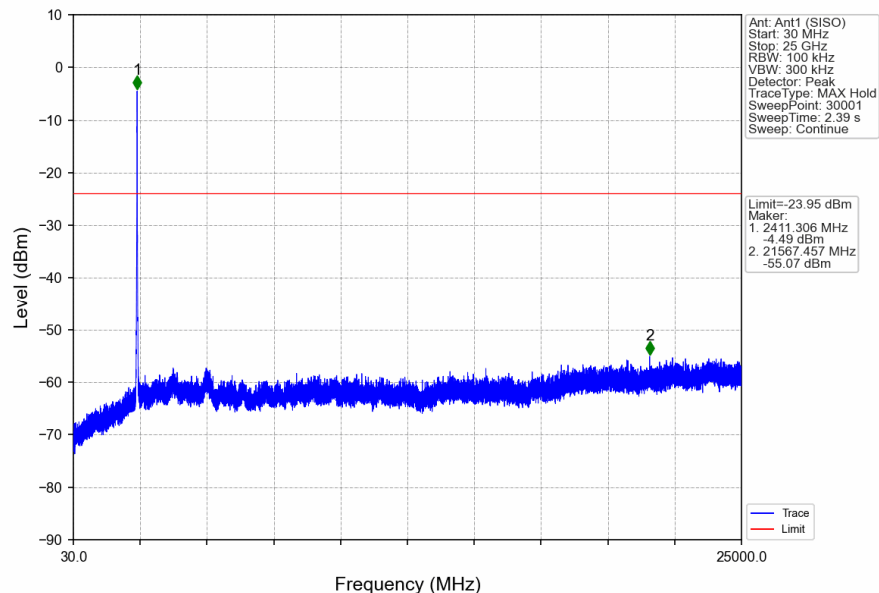
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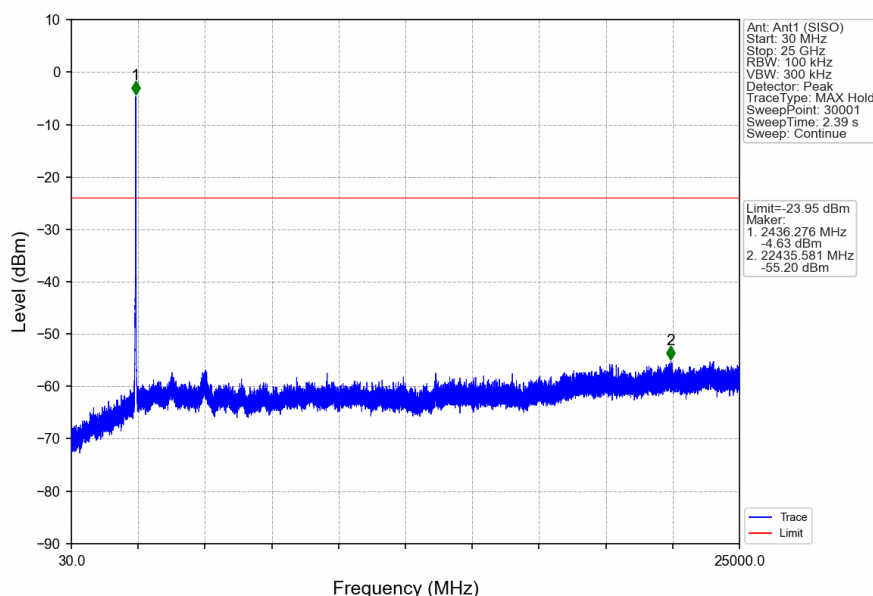
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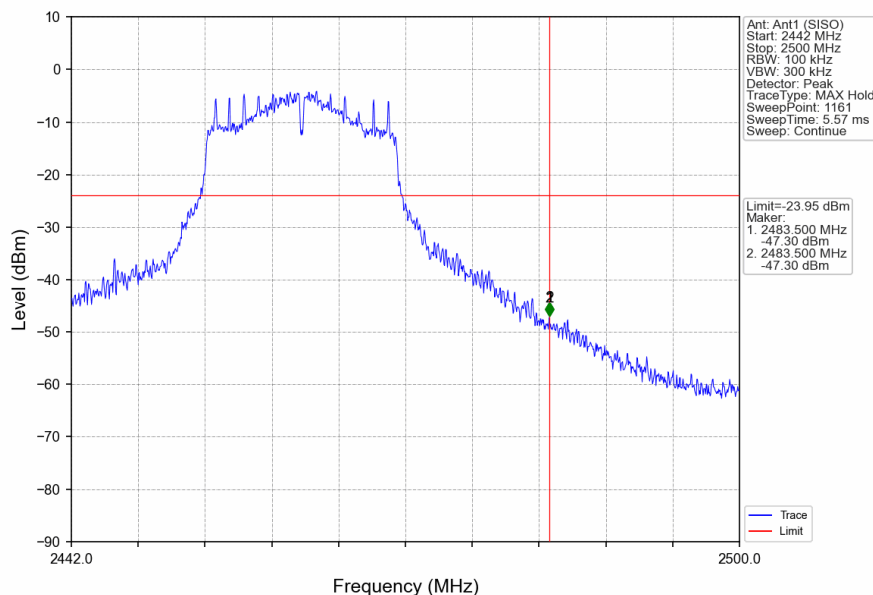
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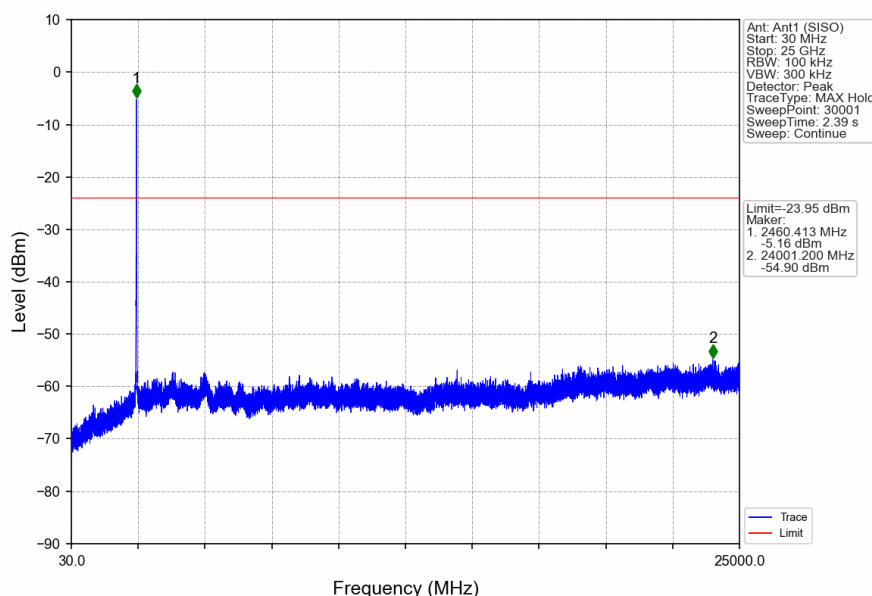
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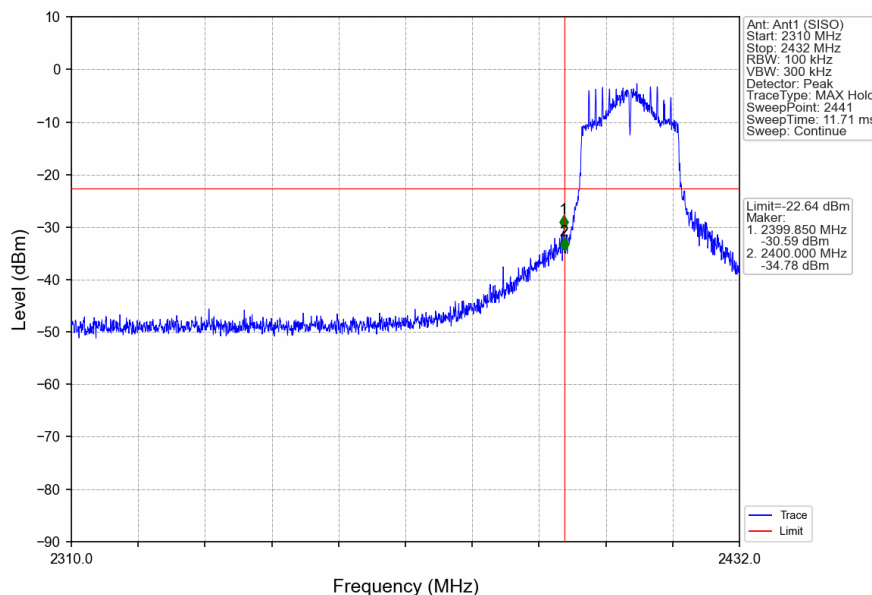
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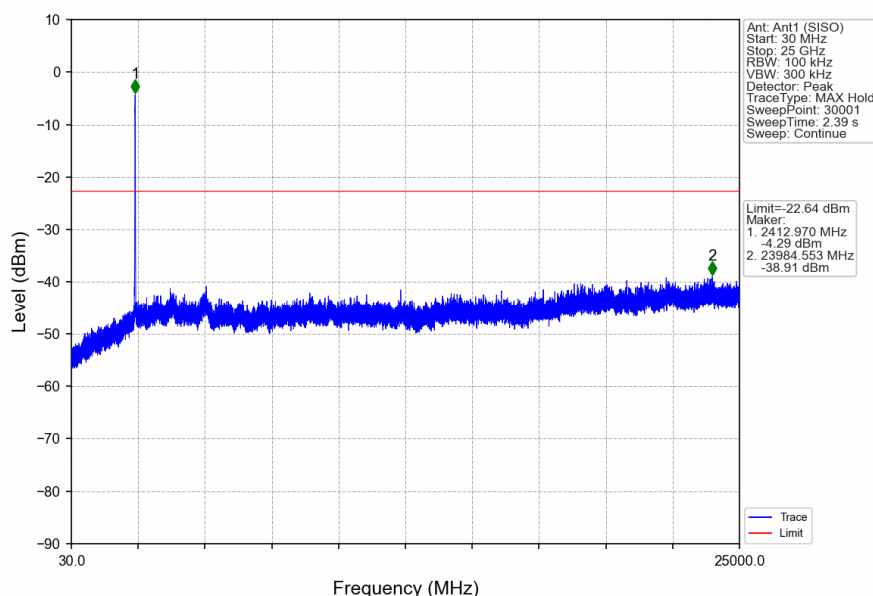
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



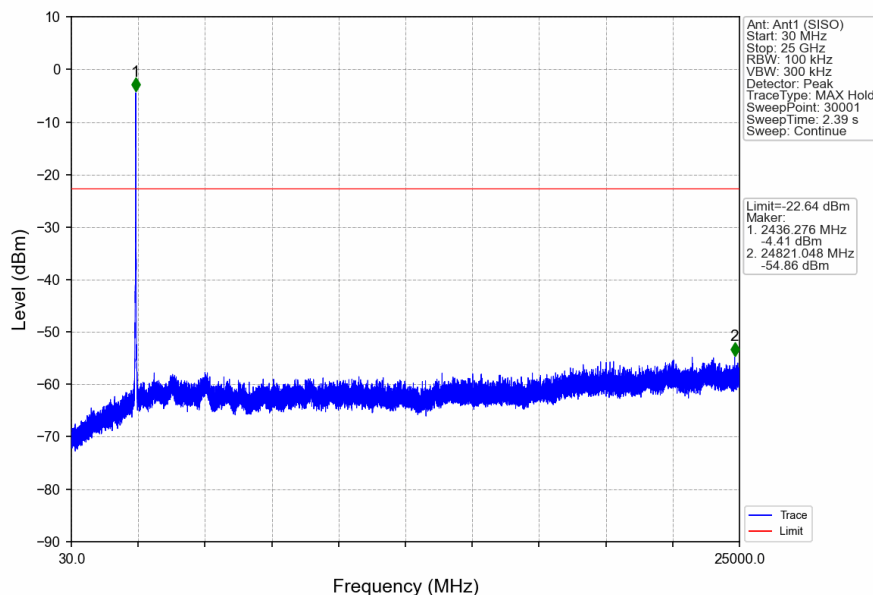
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

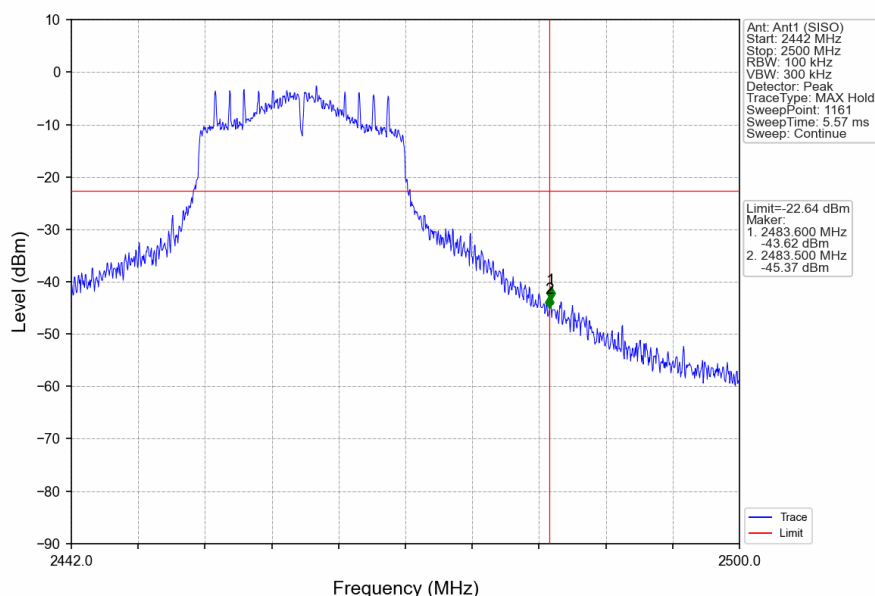


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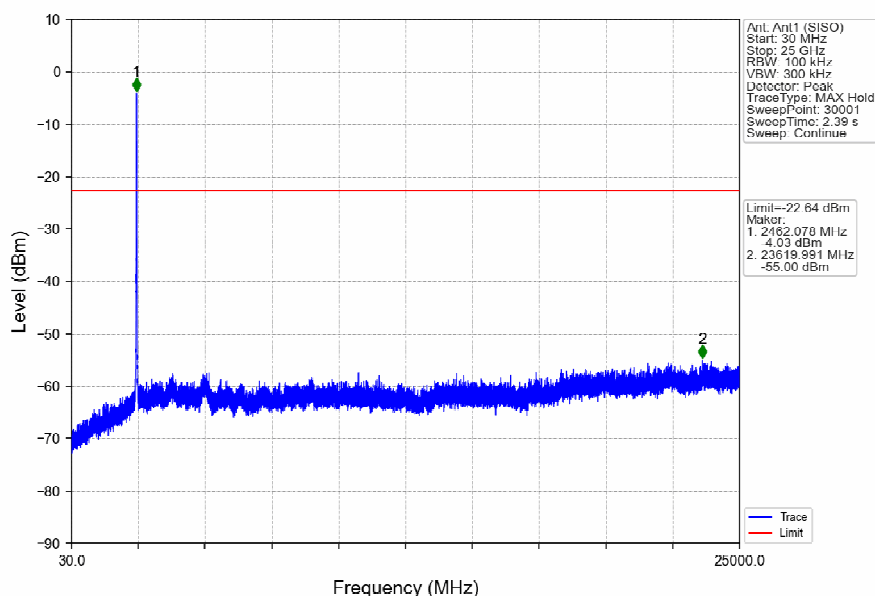
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



- End of the Report -



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