

## Appendix A for KSEM210700102501

### 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	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
802.11n (HT20)	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
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



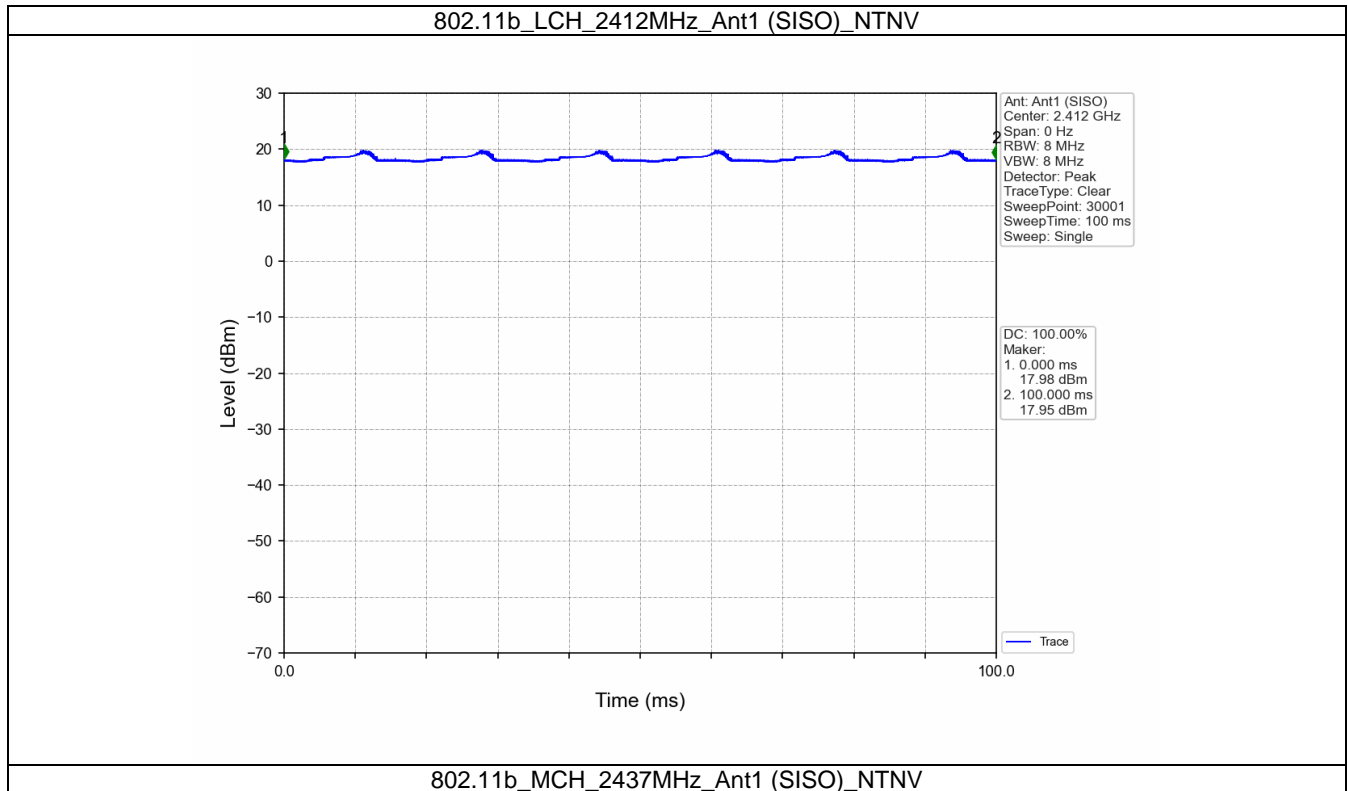
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### 1.1.2 Test Graph

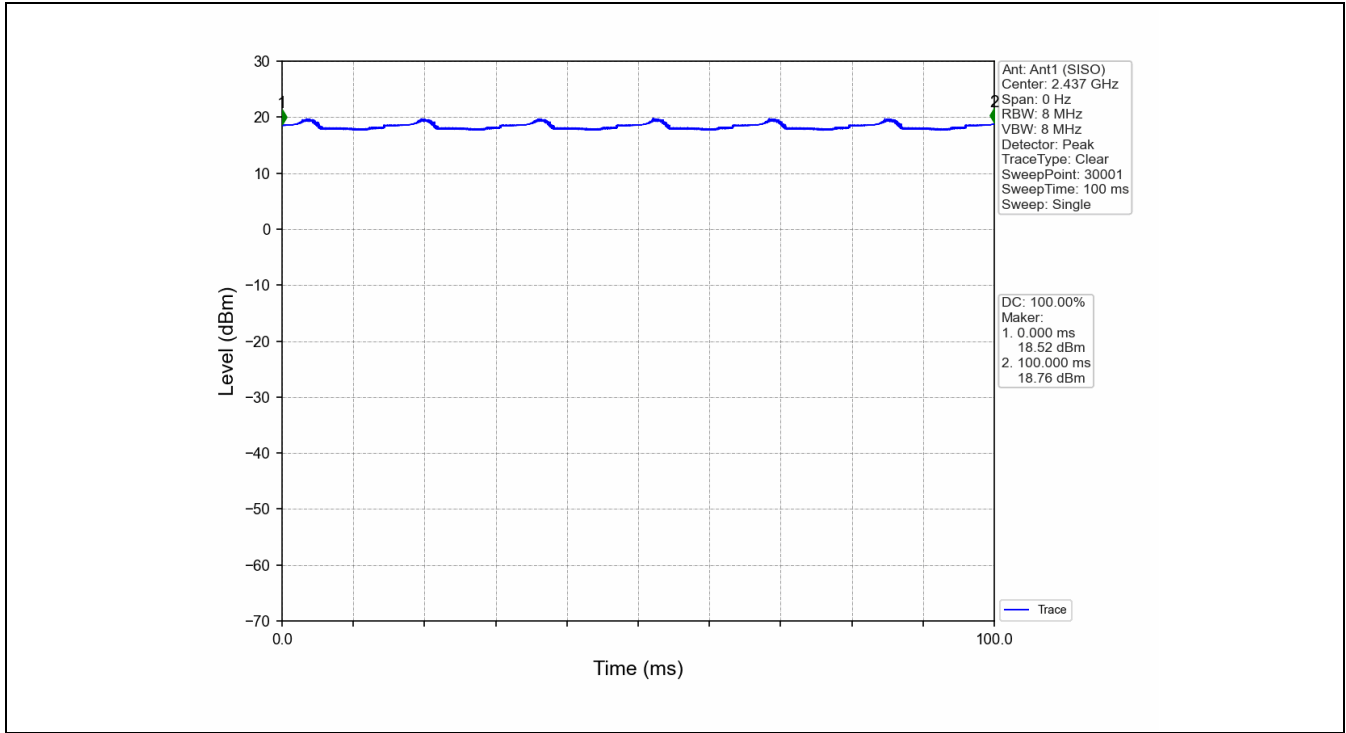


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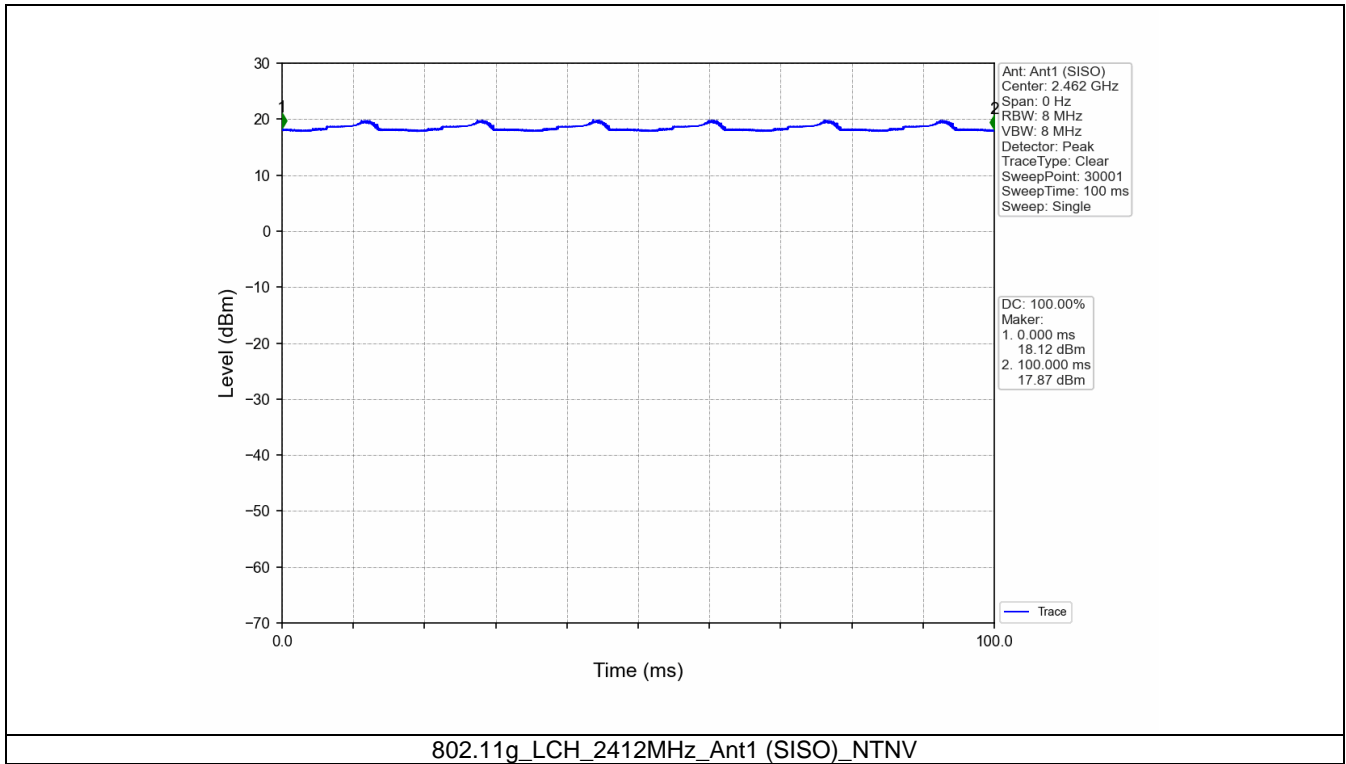
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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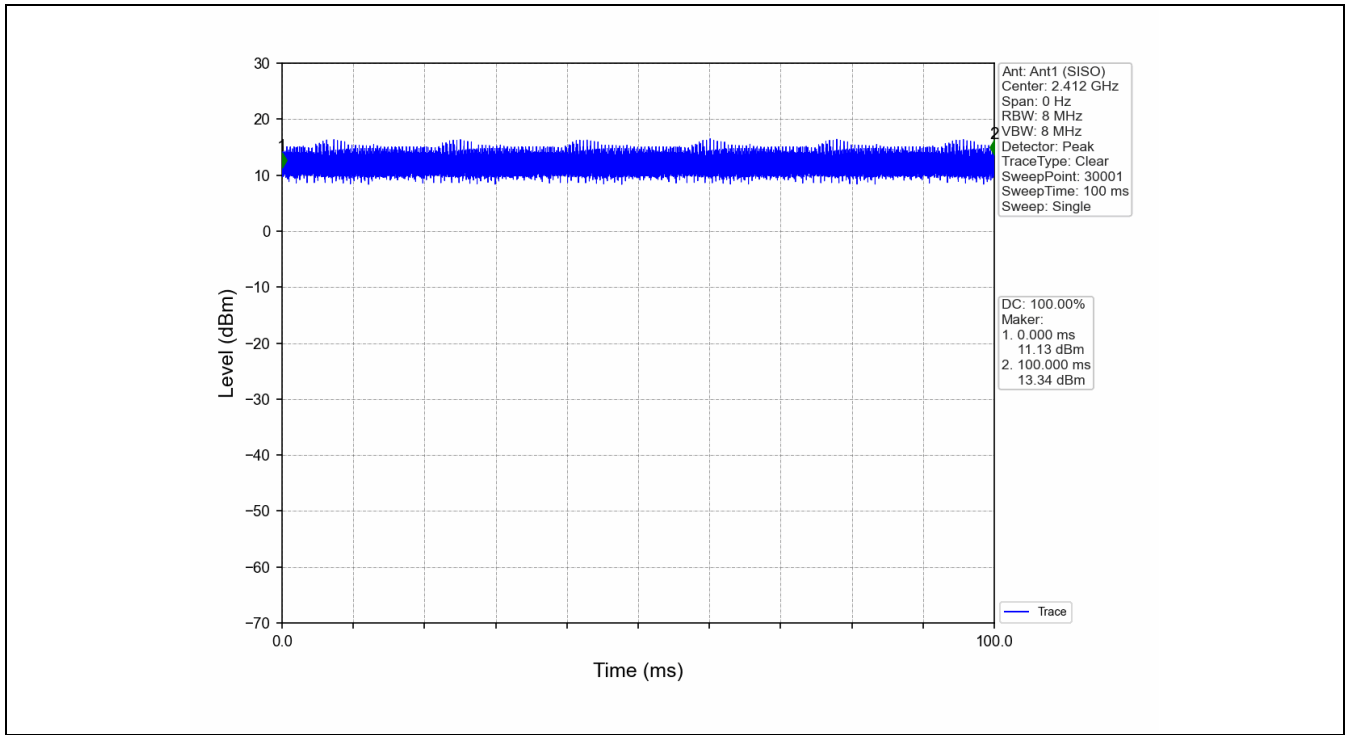


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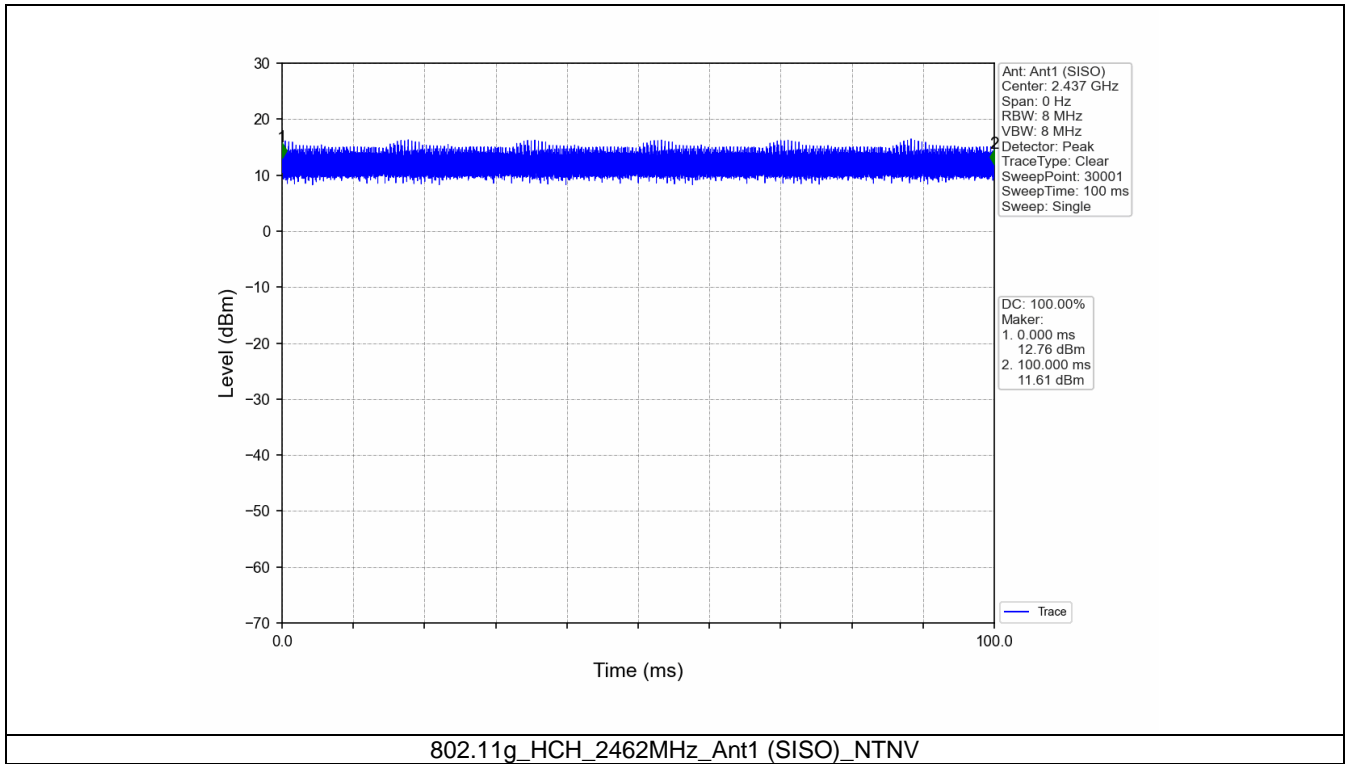


802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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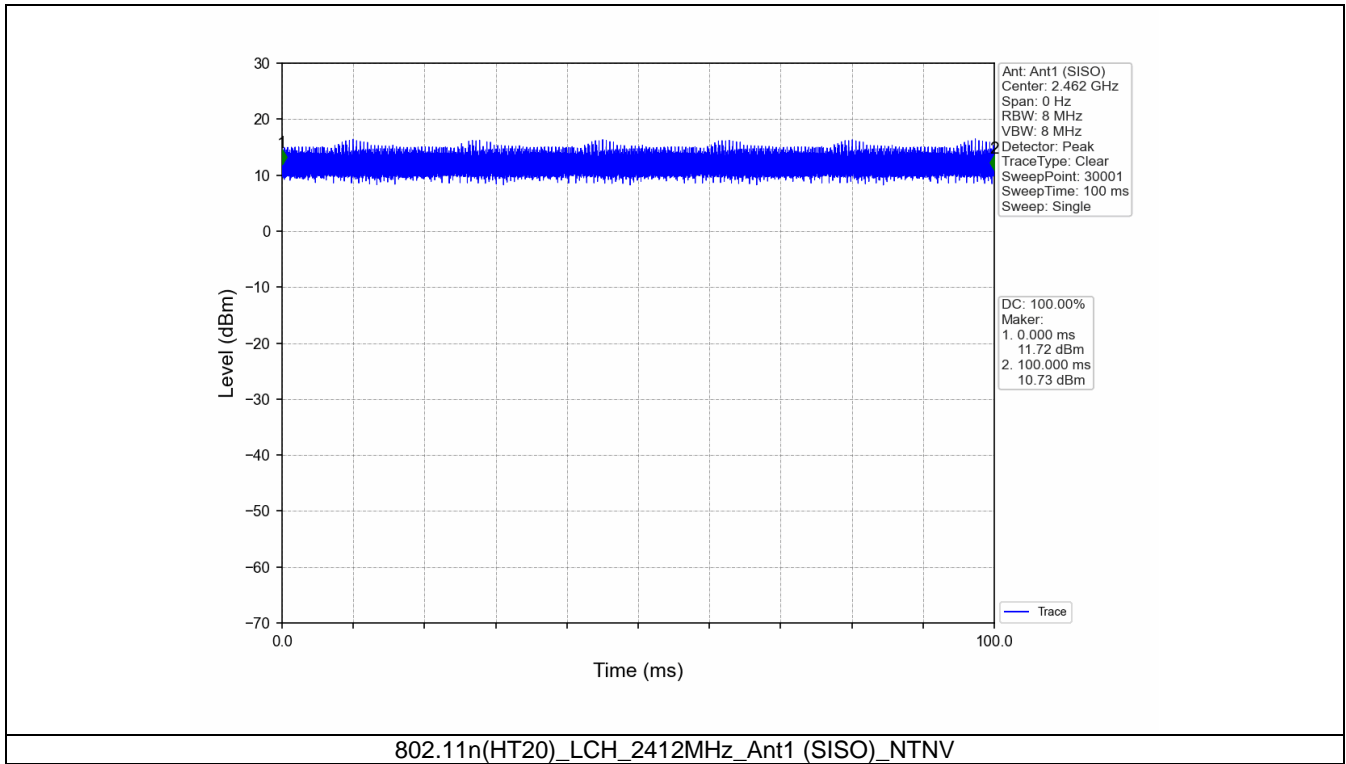


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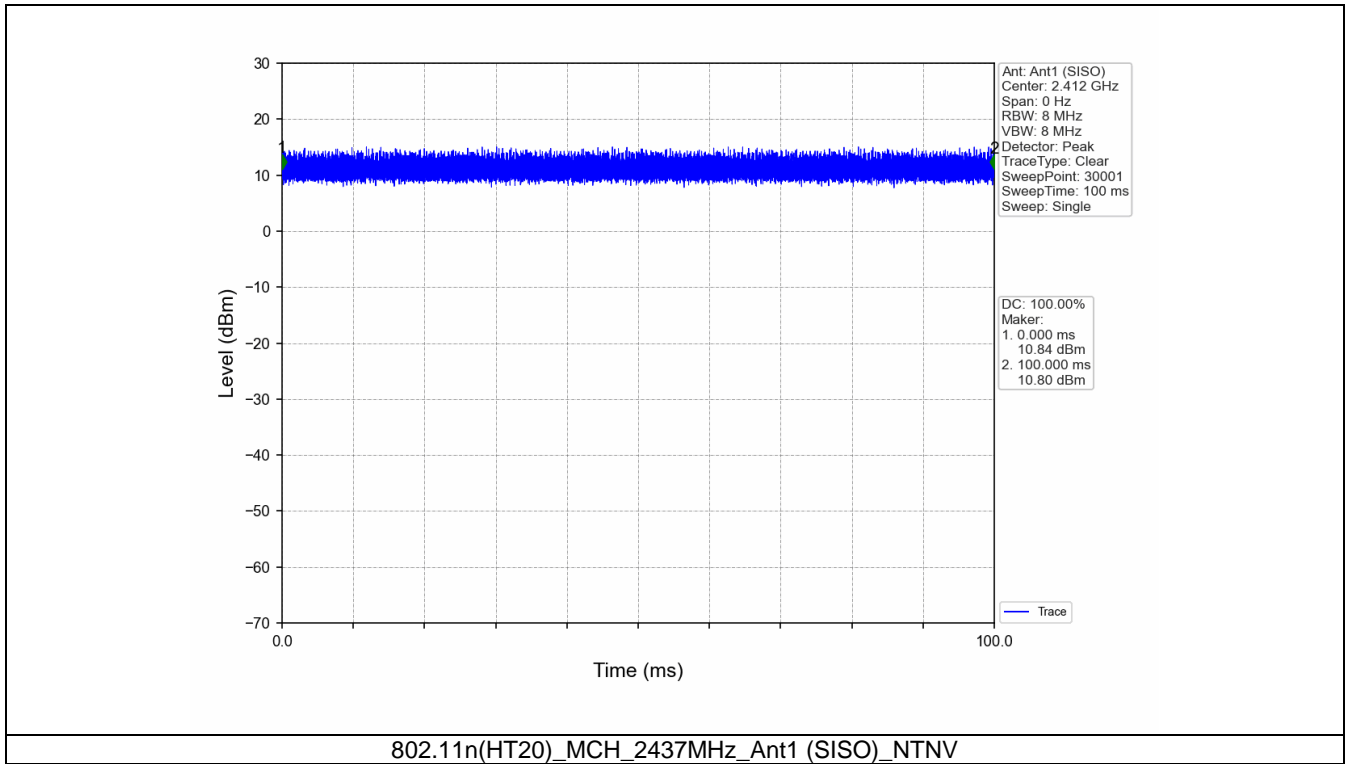


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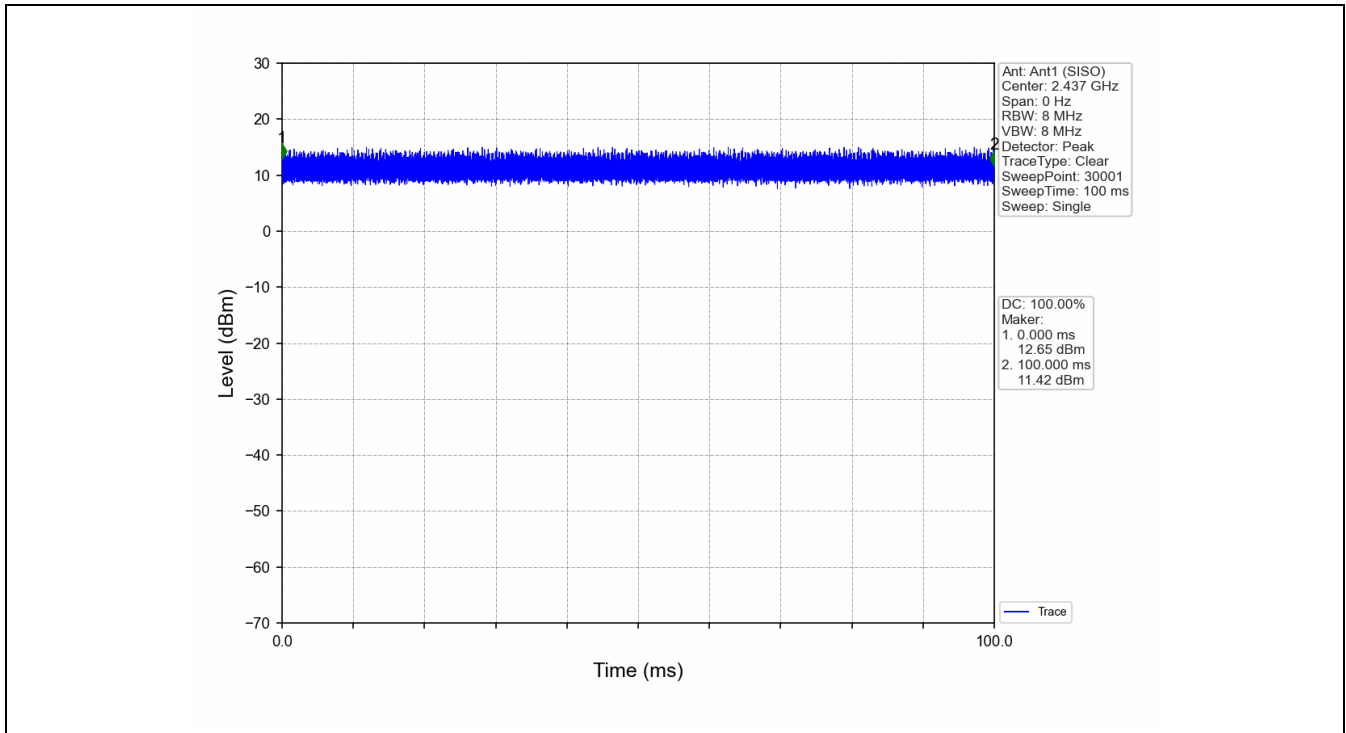
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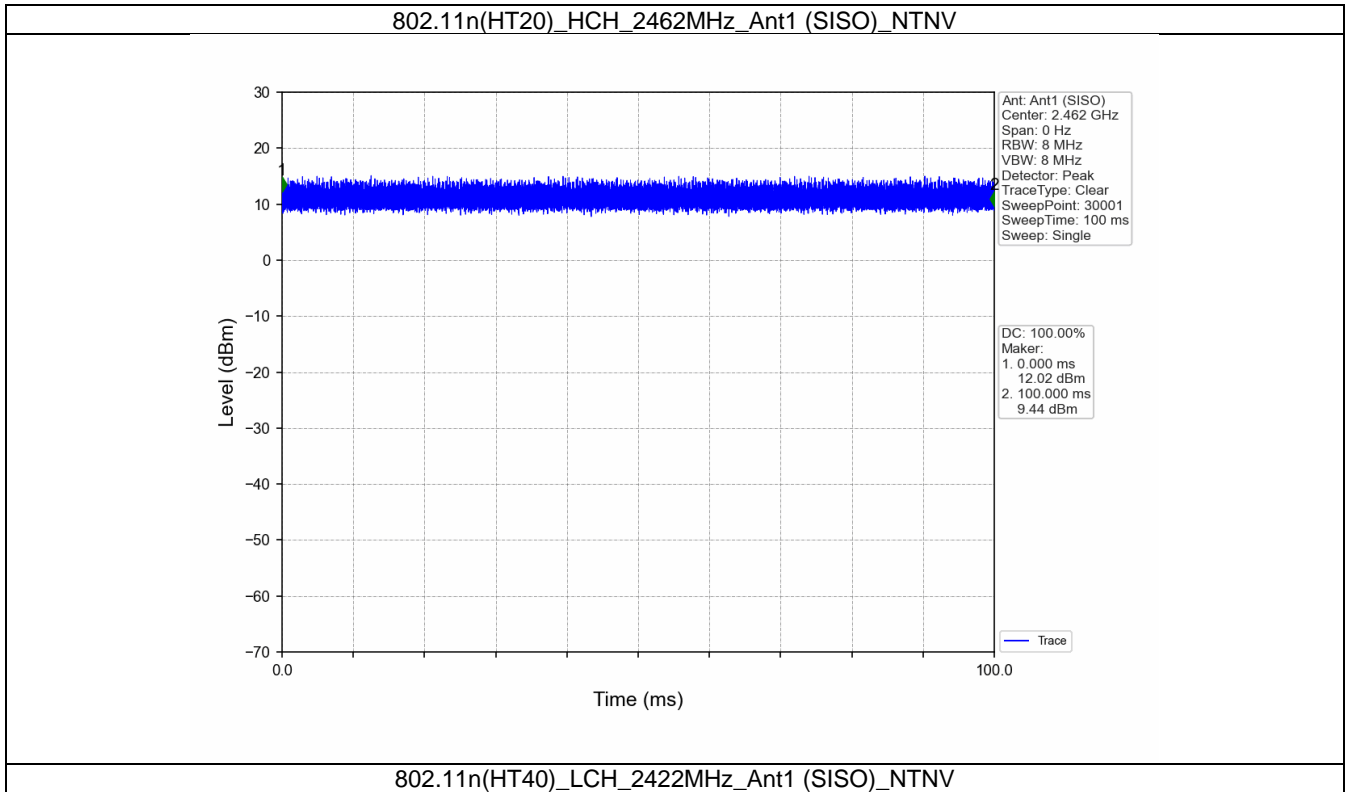


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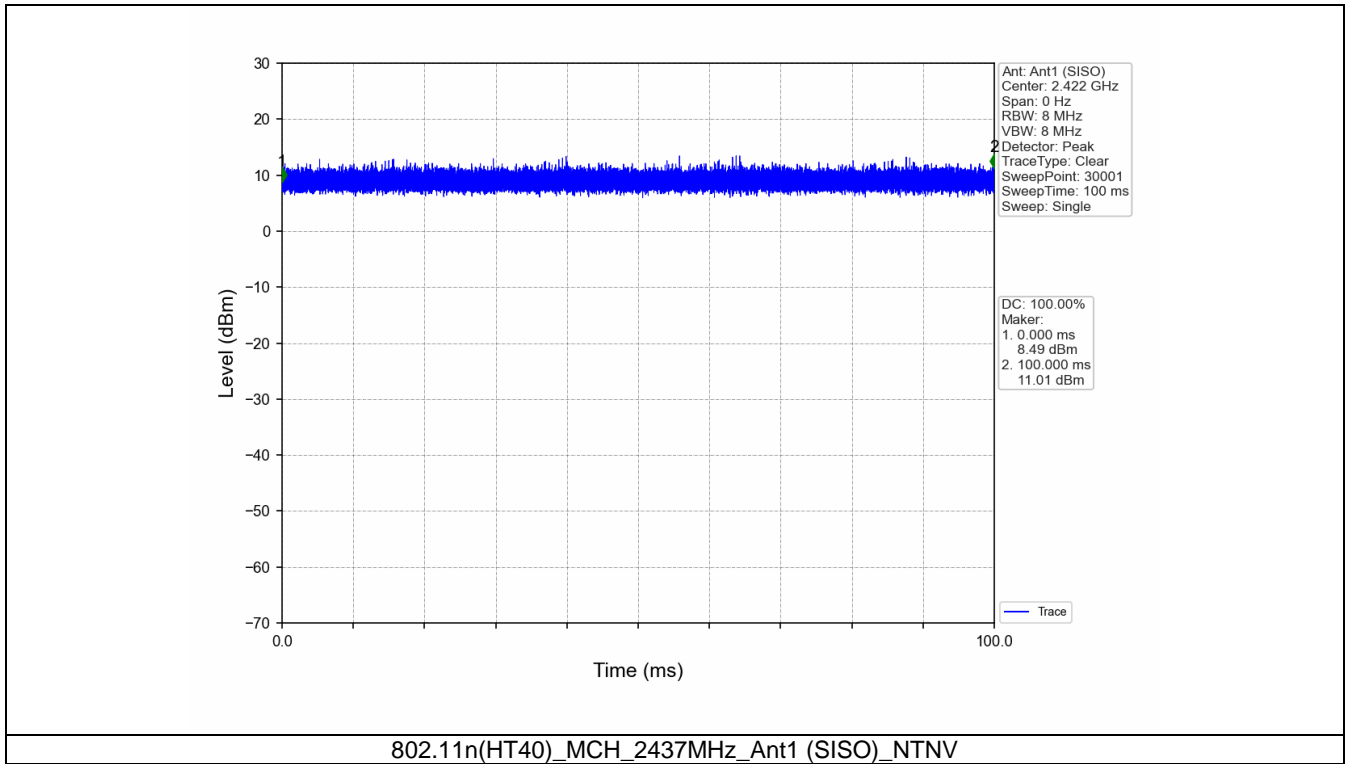
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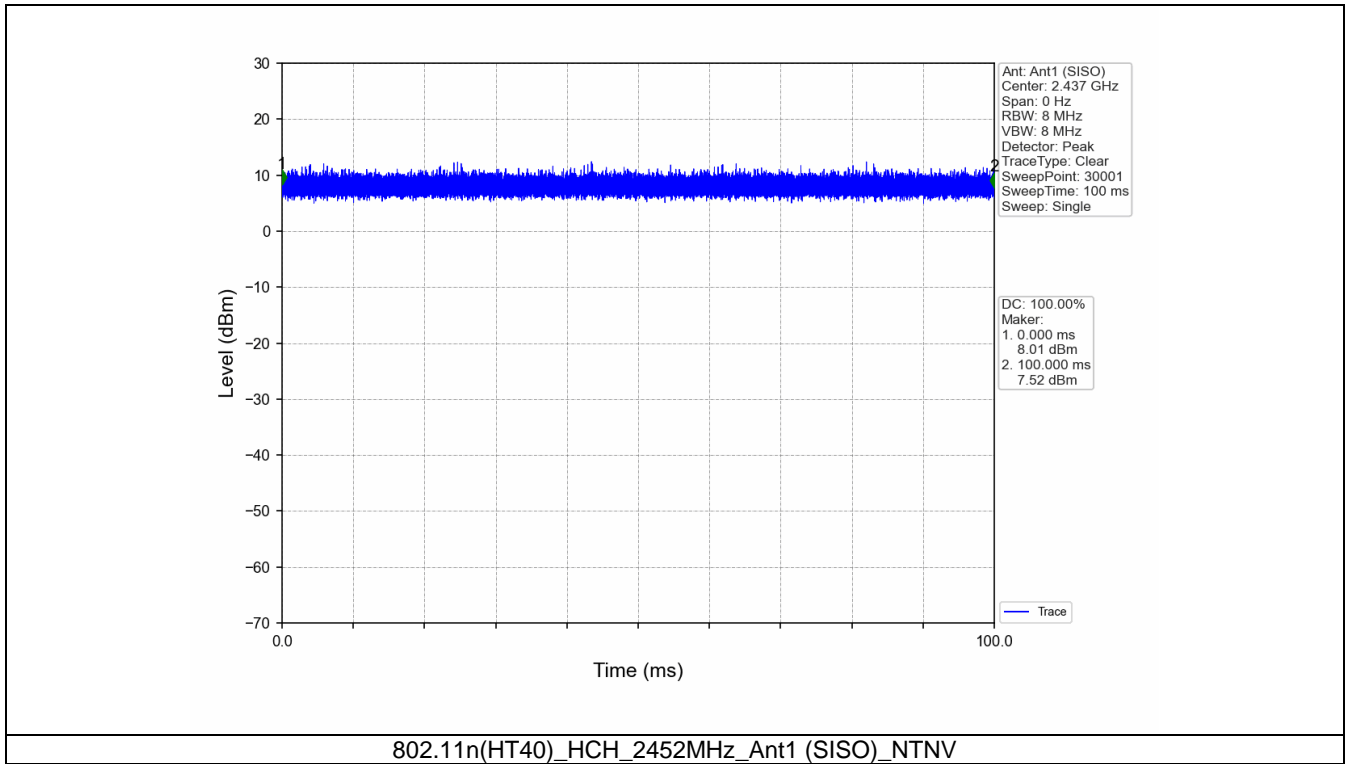


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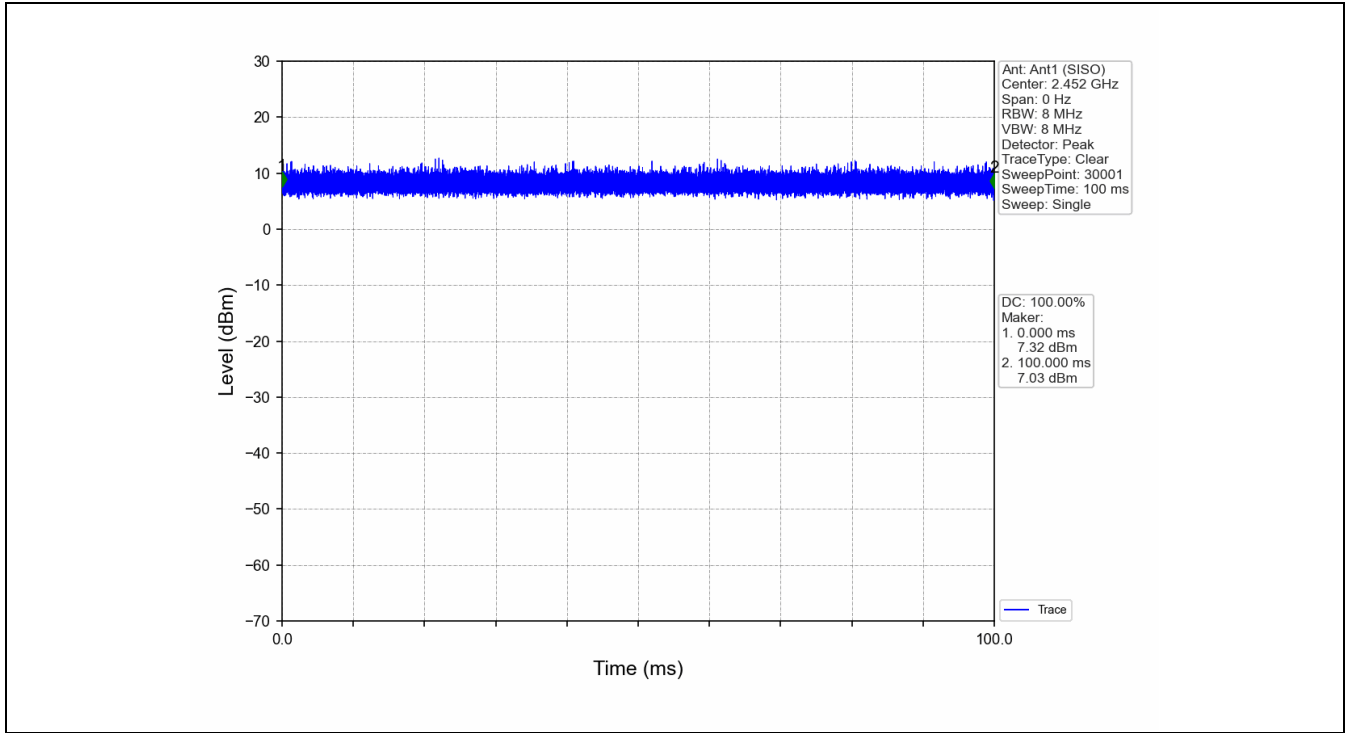


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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	SISO	2412	1	14.711	/	Pass
		2437	1	14.739	/	Pass
		2462	1	14.779	/	Pass
802.11g	SISO	2412	1	17.678	/	Pass
		2437	1	17.636	/	Pass
		2462	1	17.751	/	Pass
802.11n (HT20)	SISO	2412	1	18.674	/	Pass
		2437	1	18.502	/	Pass
		2462	1	19.623	/	Pass
802.11n (HT40)	SISO	2422	1	35.957	/	Pass
		2437	1	35.977	/	Pass
		2452	1	35.978	/	Pass

#### 2.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV
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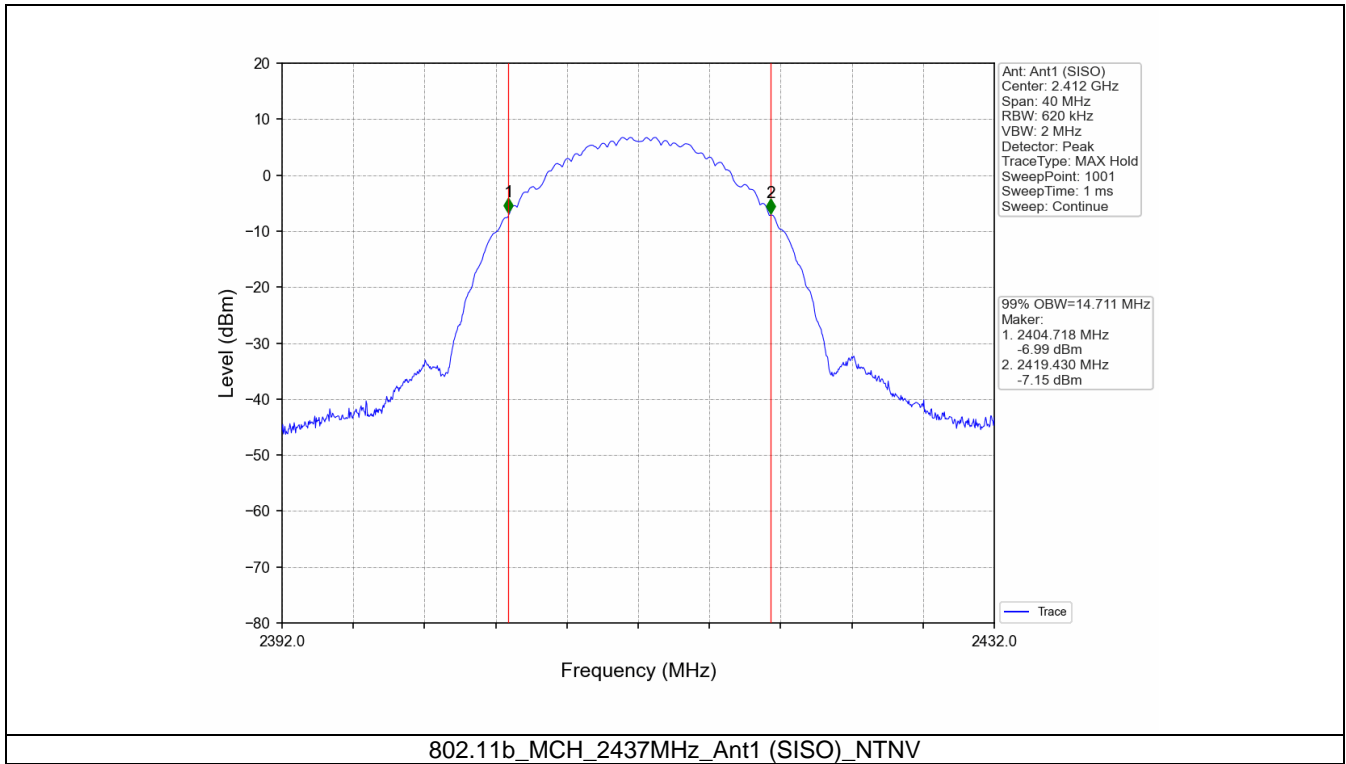


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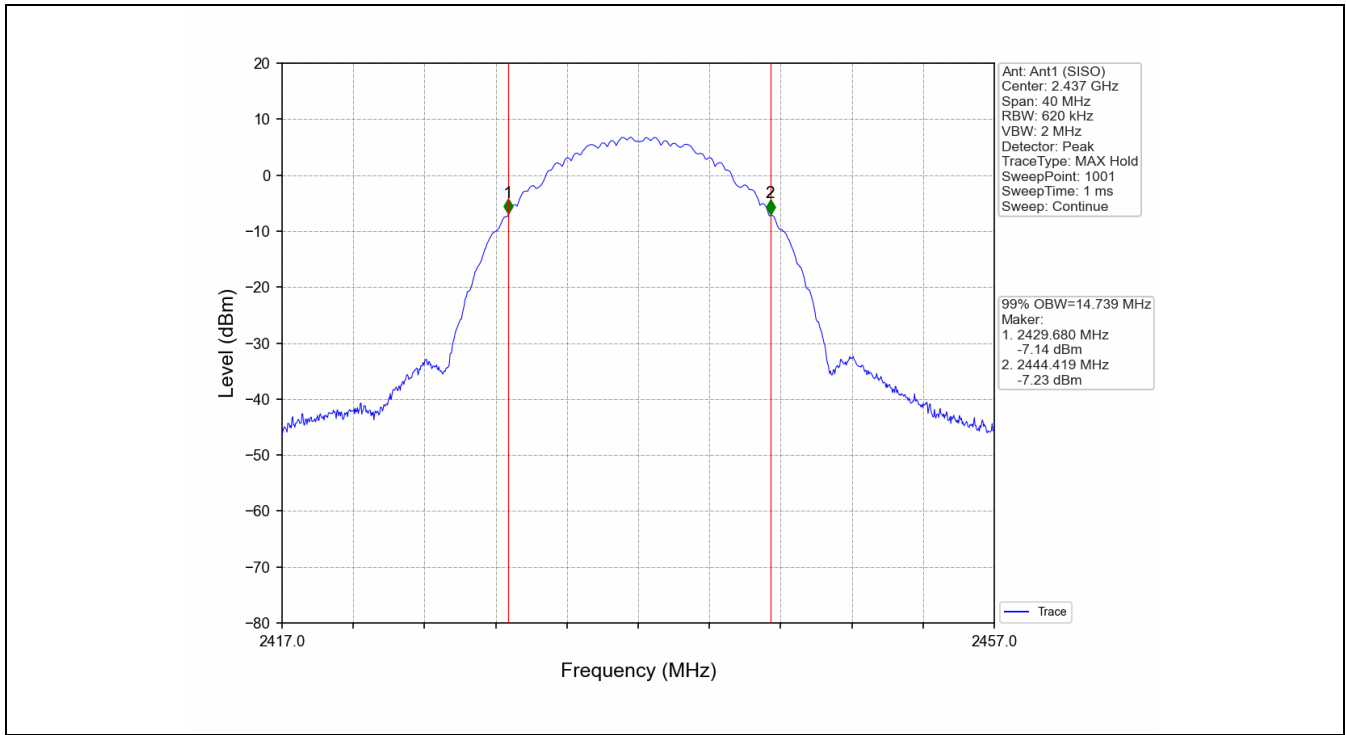


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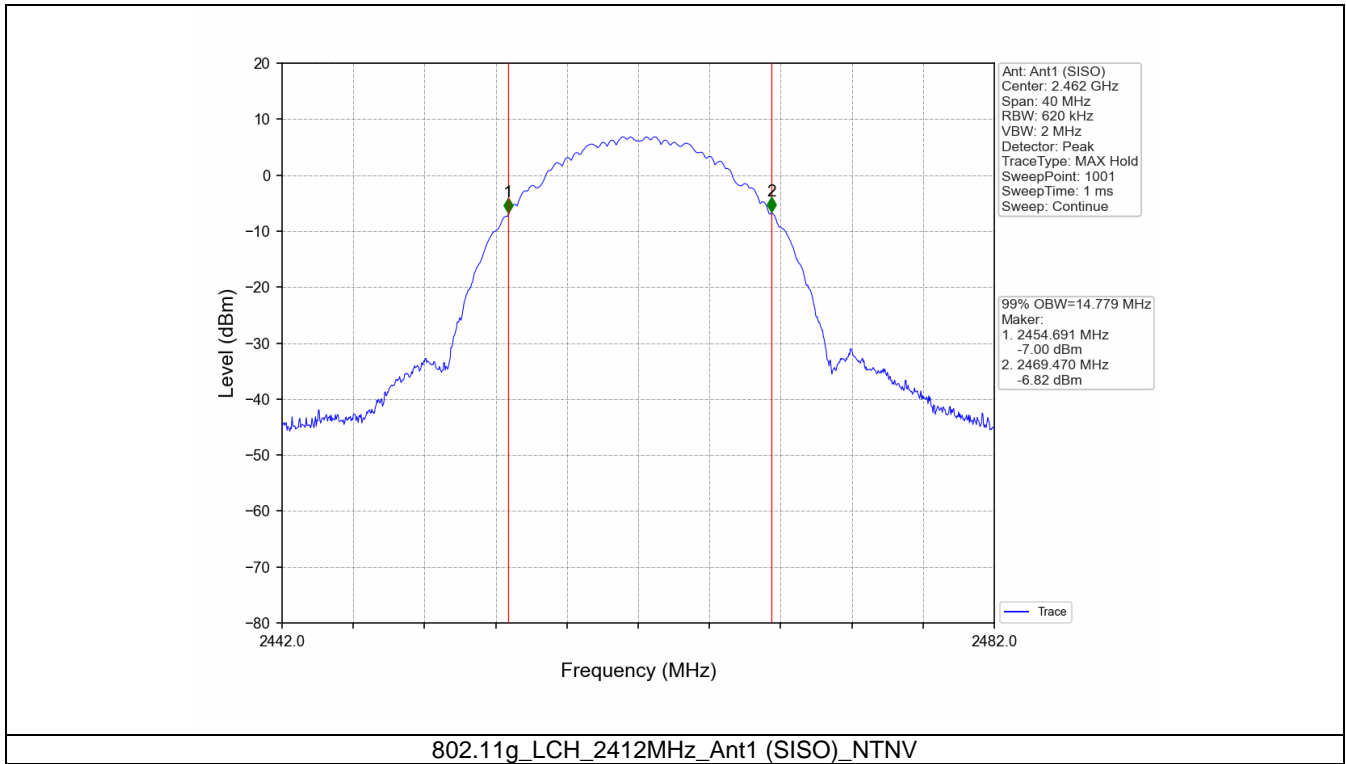
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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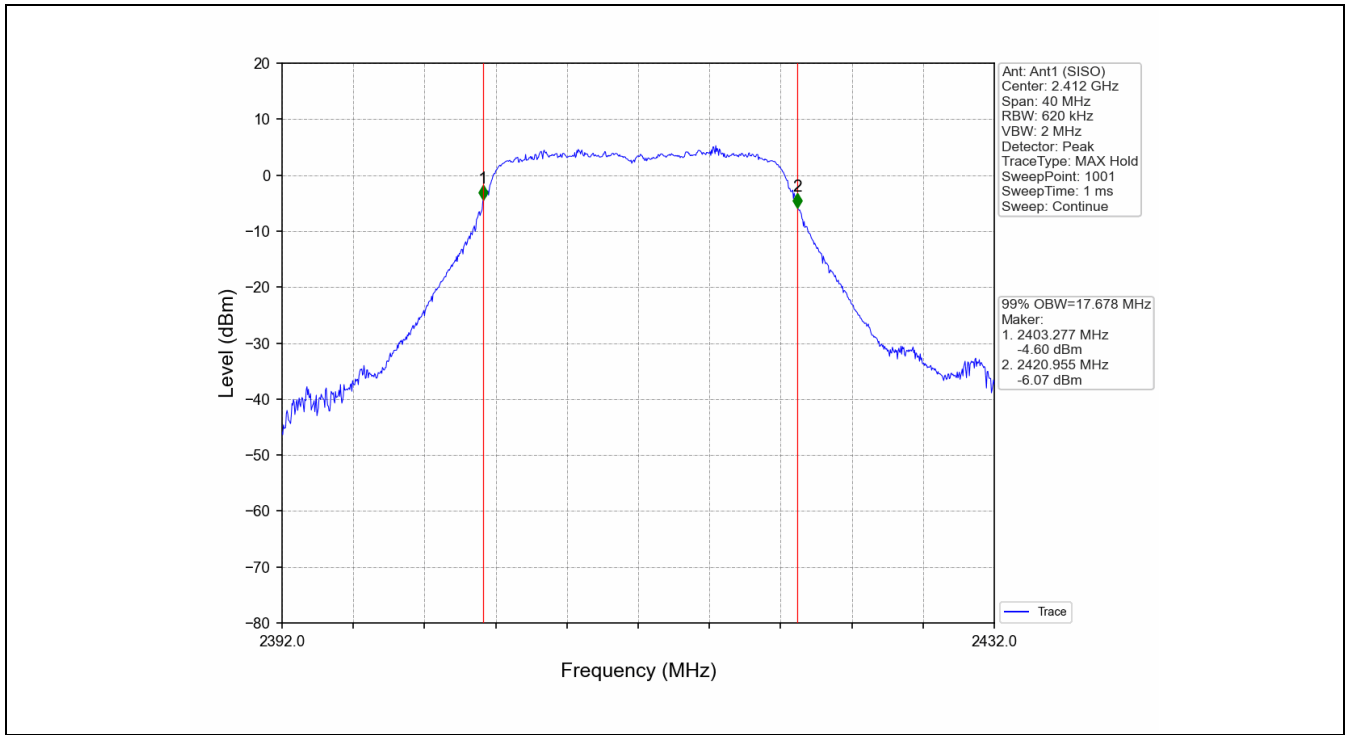




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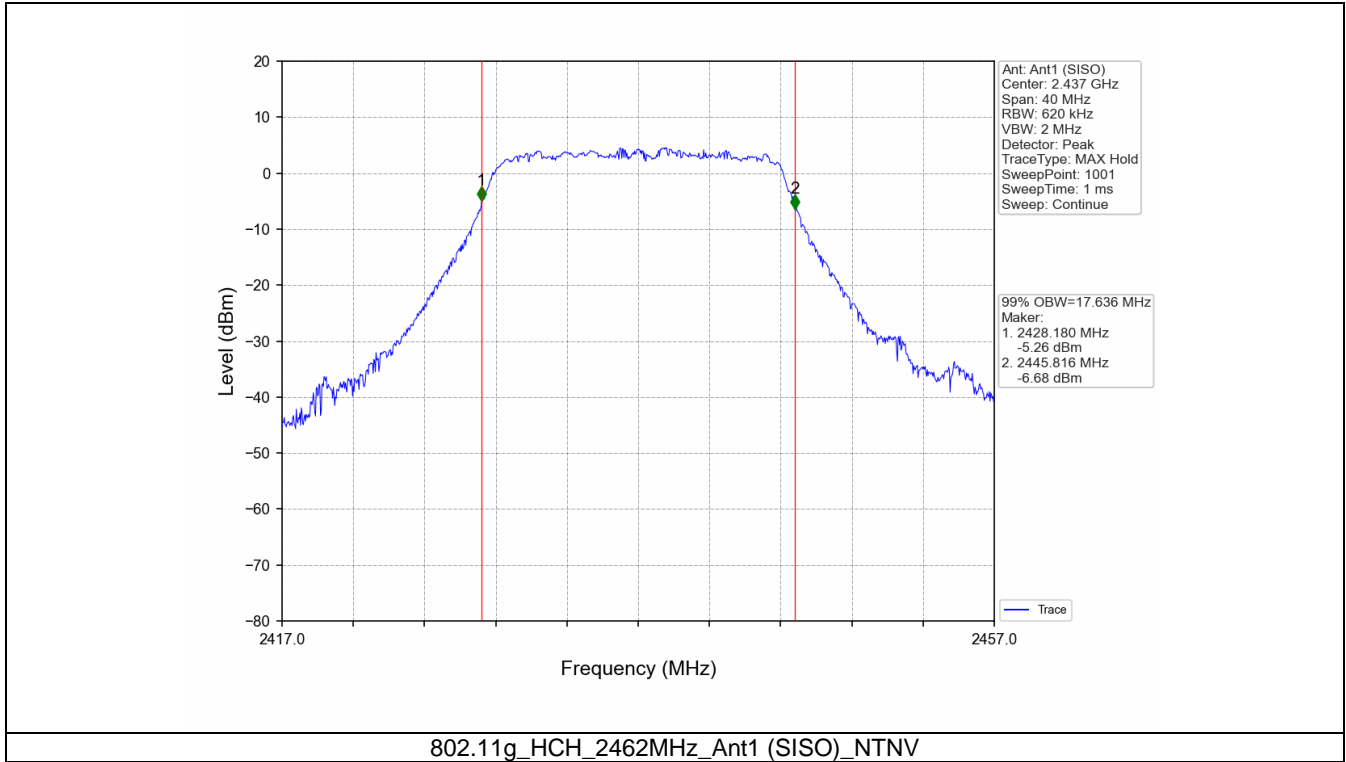


802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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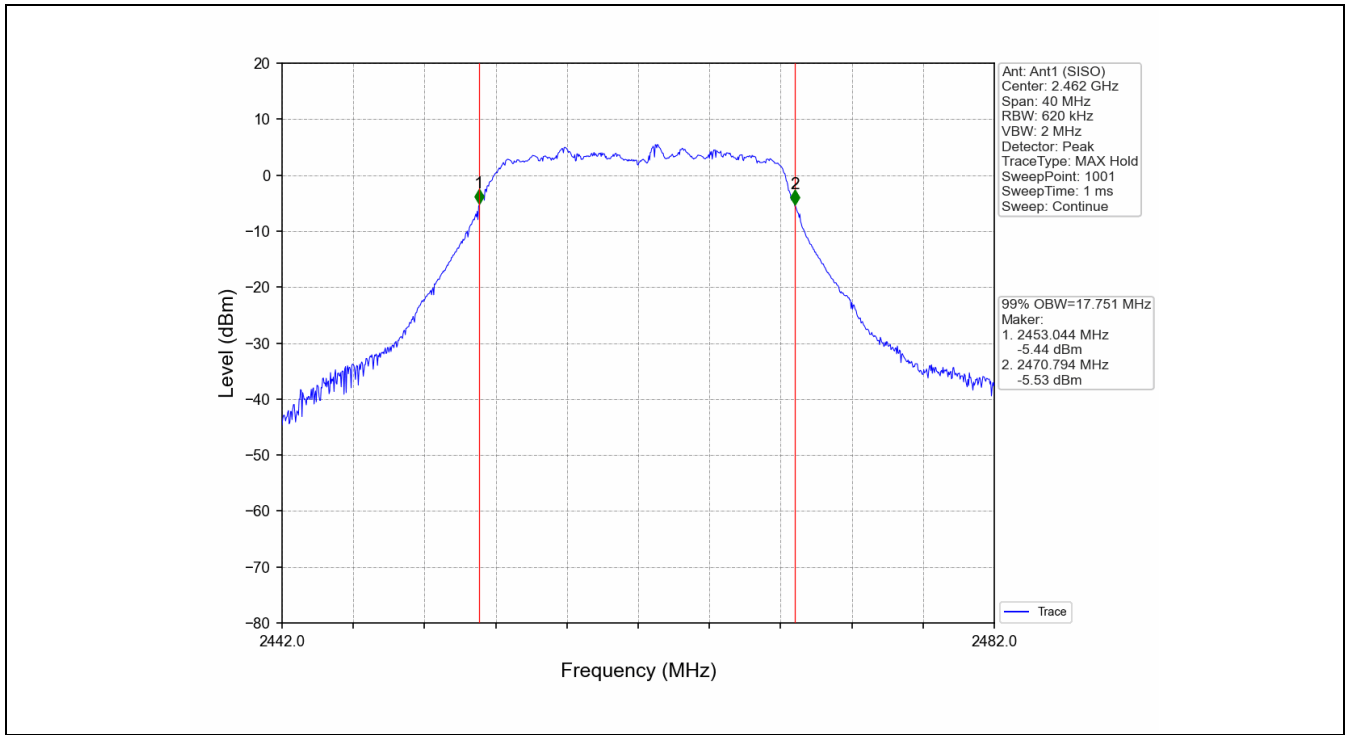


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



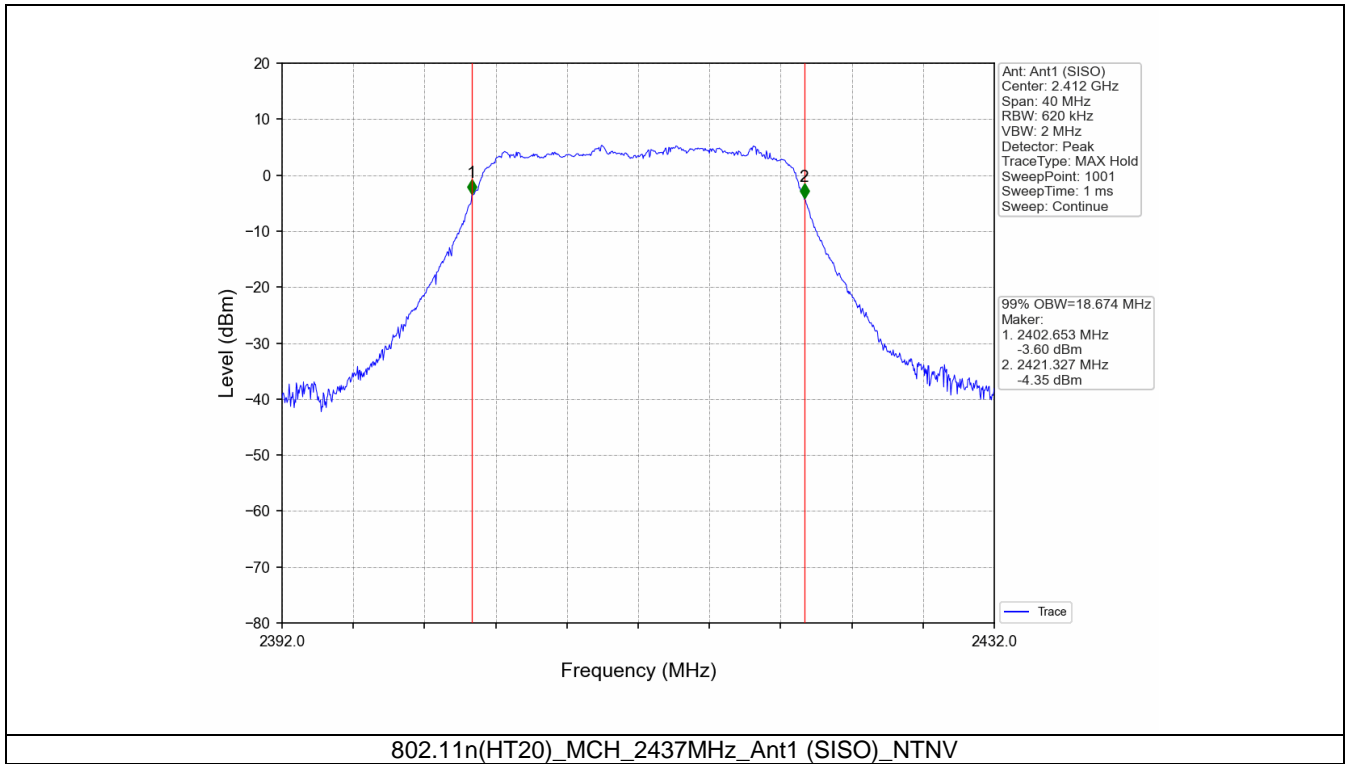
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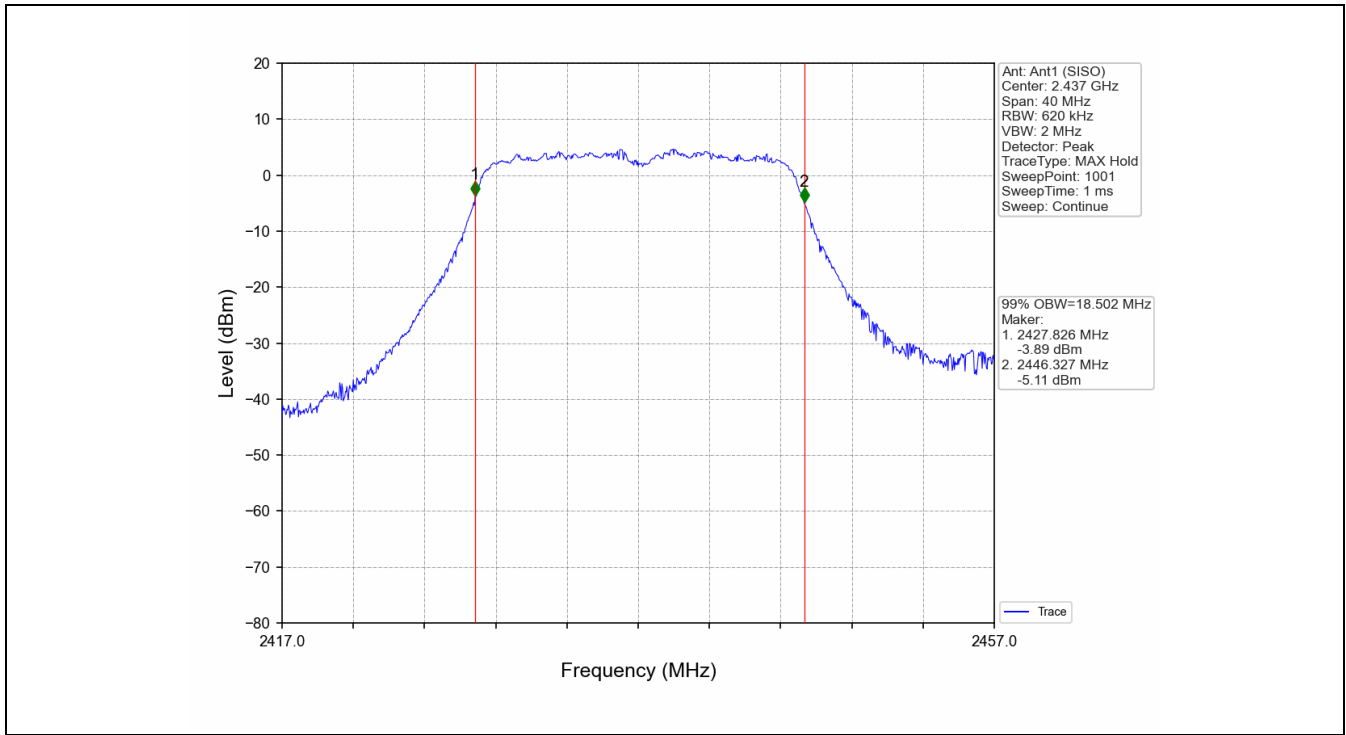
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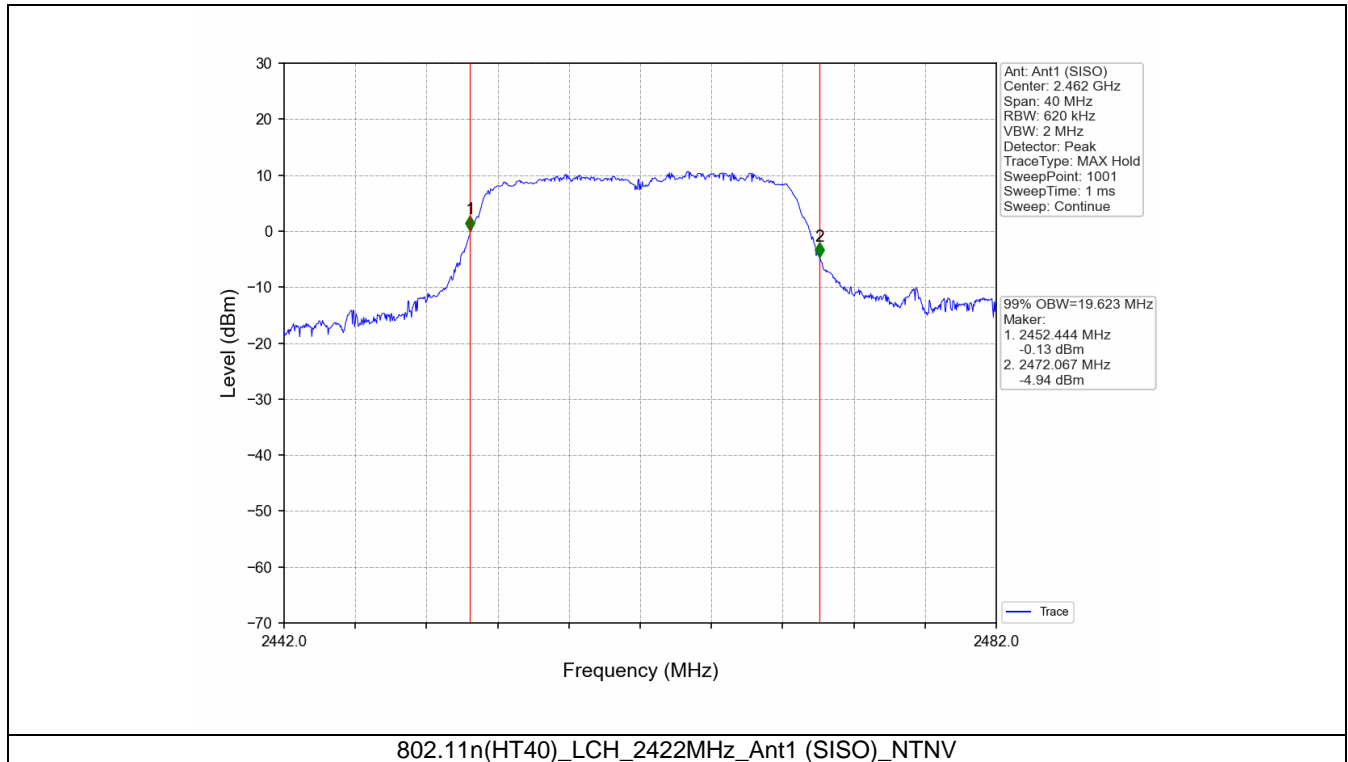


802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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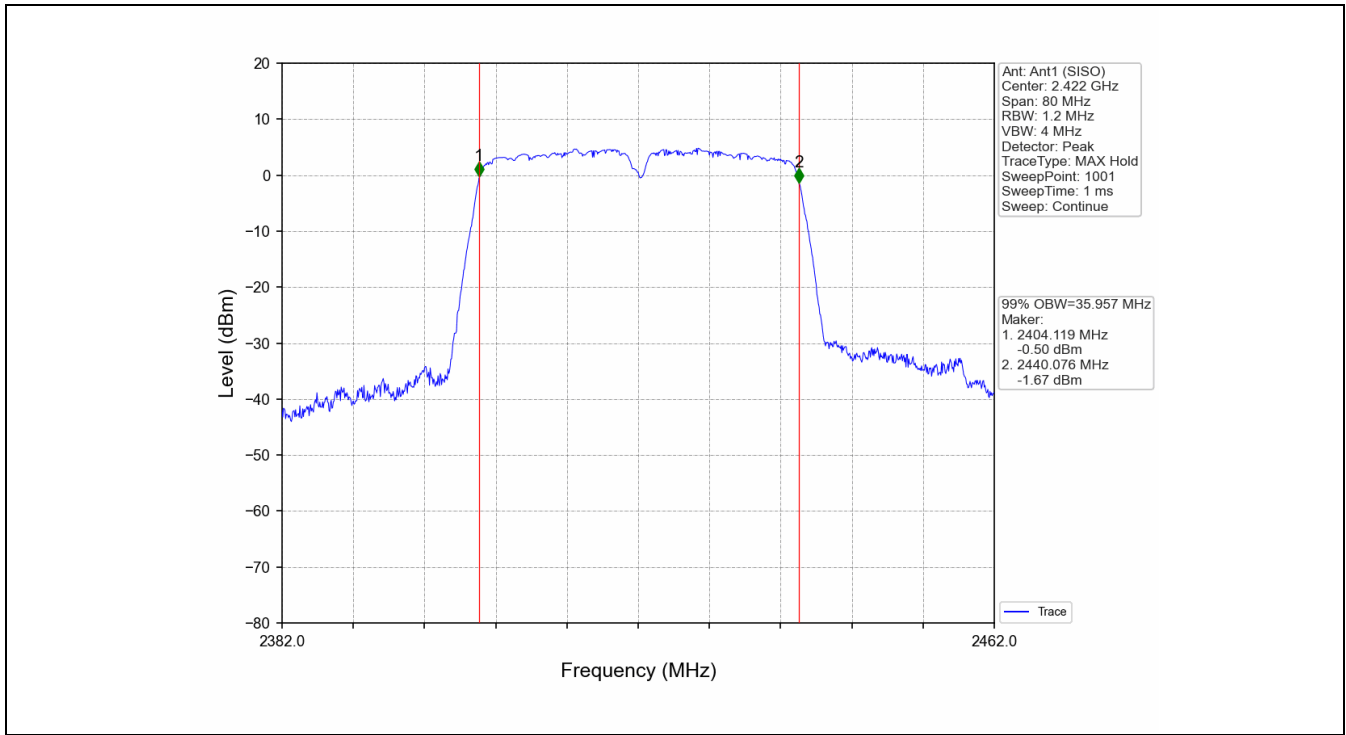
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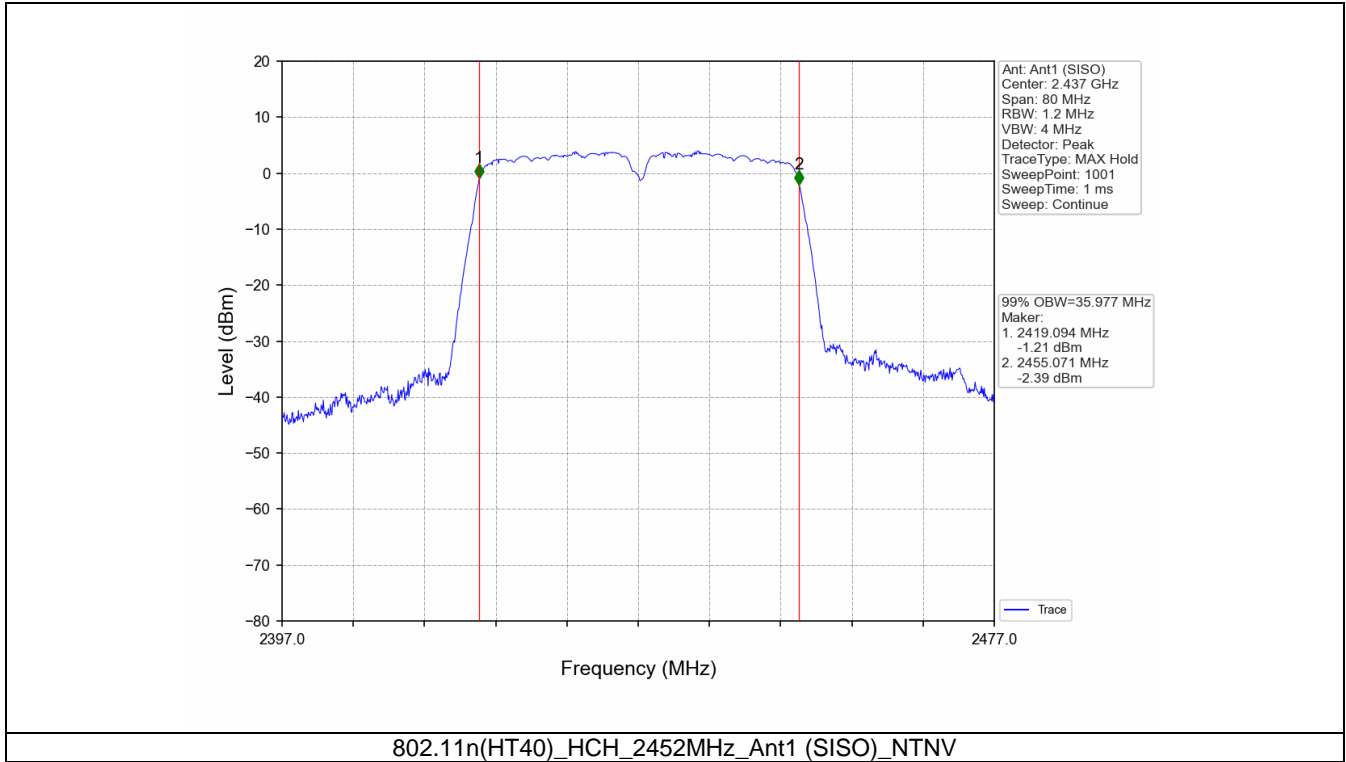
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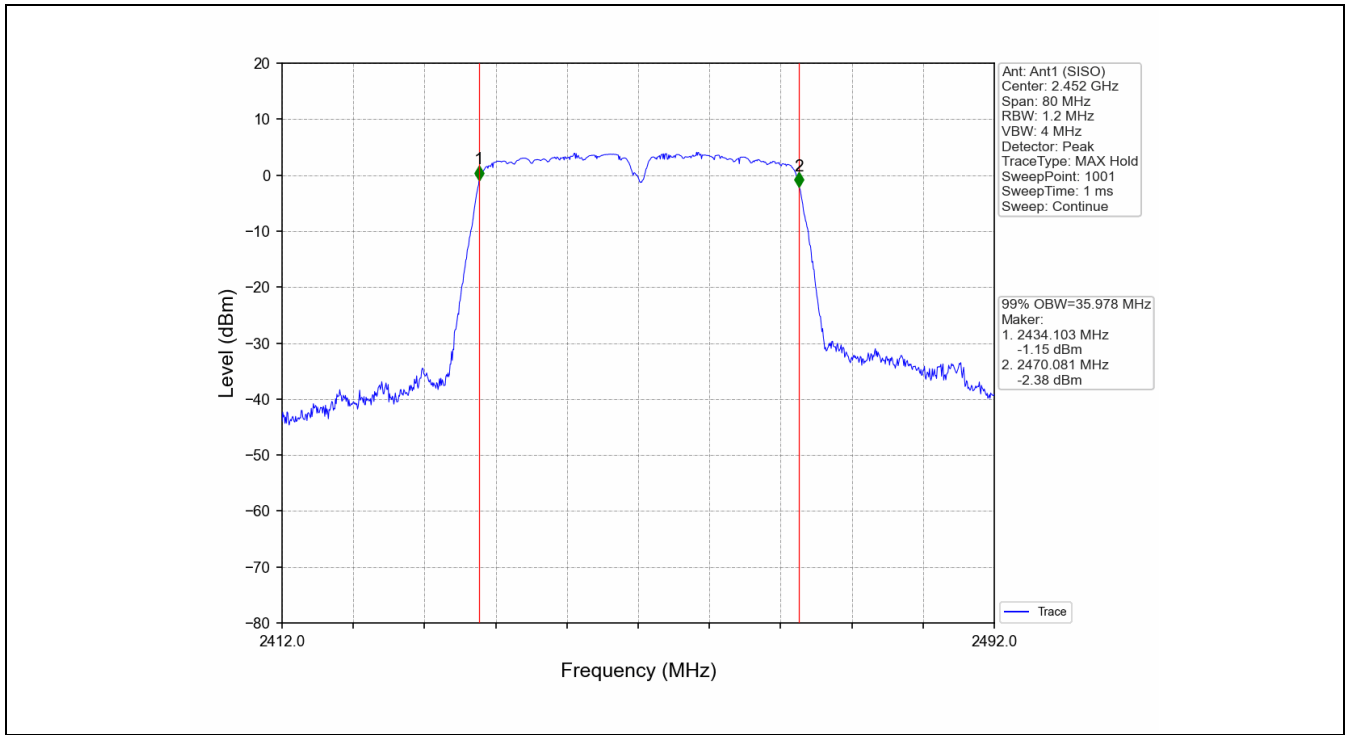
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## 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	SISO	2412	1	10.081	>=0.5	Pass
		2437	1	10.083	>=0.5	Pass
		2462	1	10.074	>=0.5	Pass
802.11g	SISO	2412	1	16.335	>=0.5	Pass
		2437	1	16.370	>=0.5	Pass
		2462	1	16.335	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.080	>=0.5	Pass
		2437	1	17.167	>=0.5	Pass
		2462	1	17.548	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.386	>=0.5	Pass
		2437	1	36.399	>=0.5	Pass
		2452	1	36.400	>=0.5	Pass



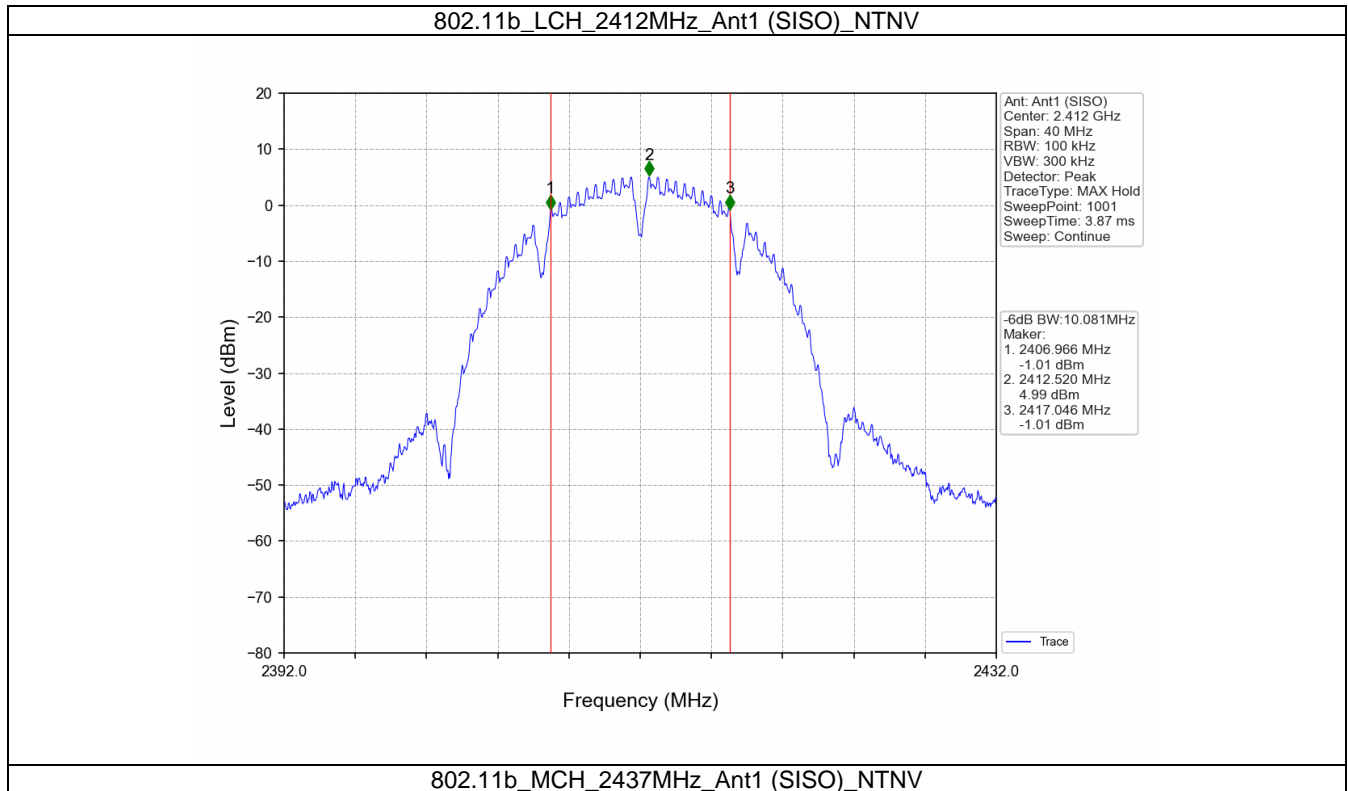
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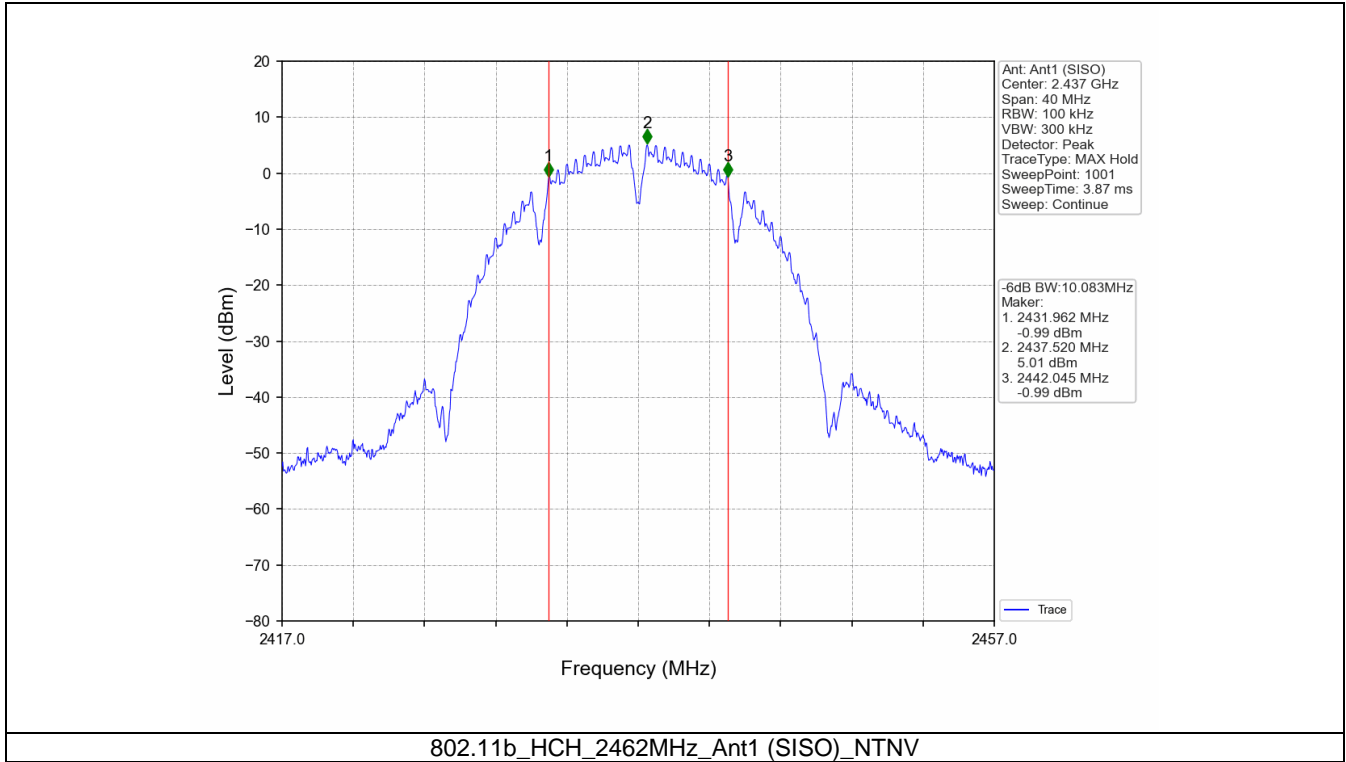
### 2.2.2 Test Graph



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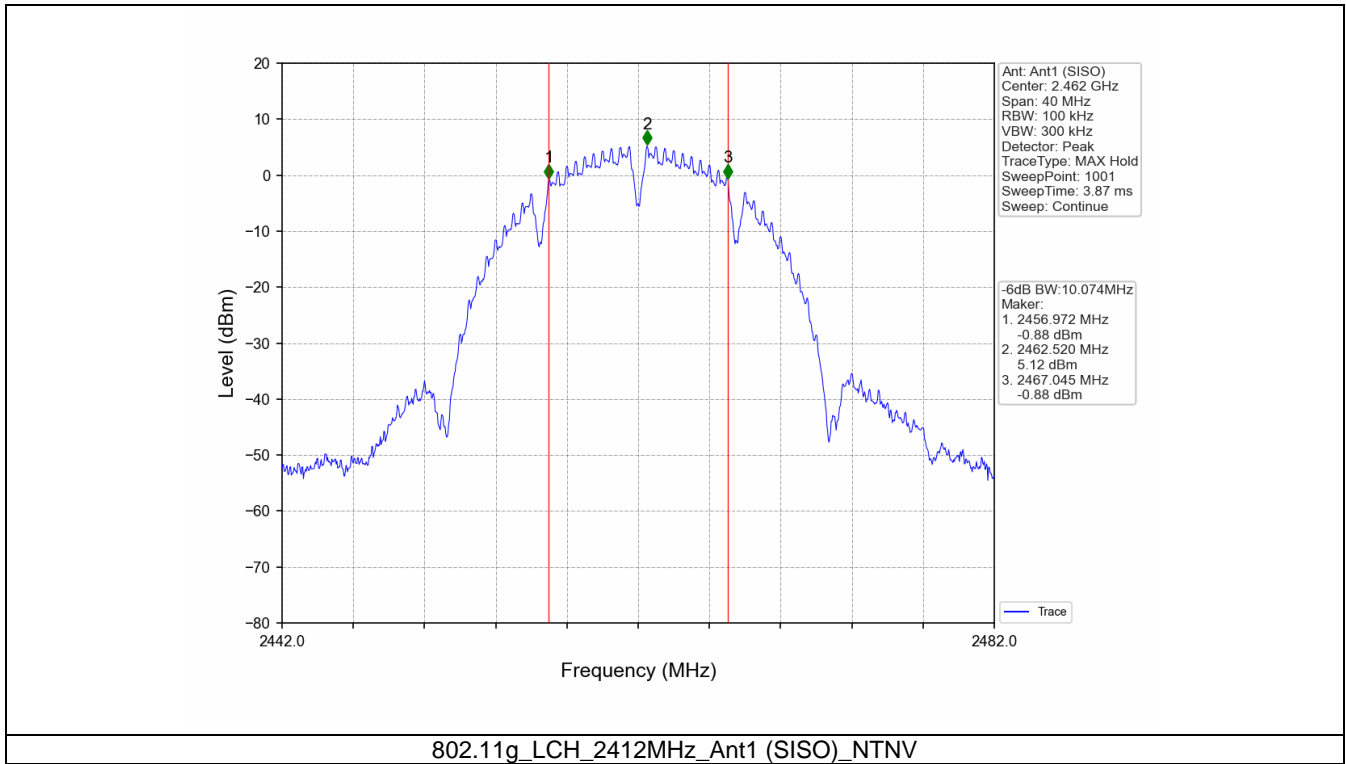


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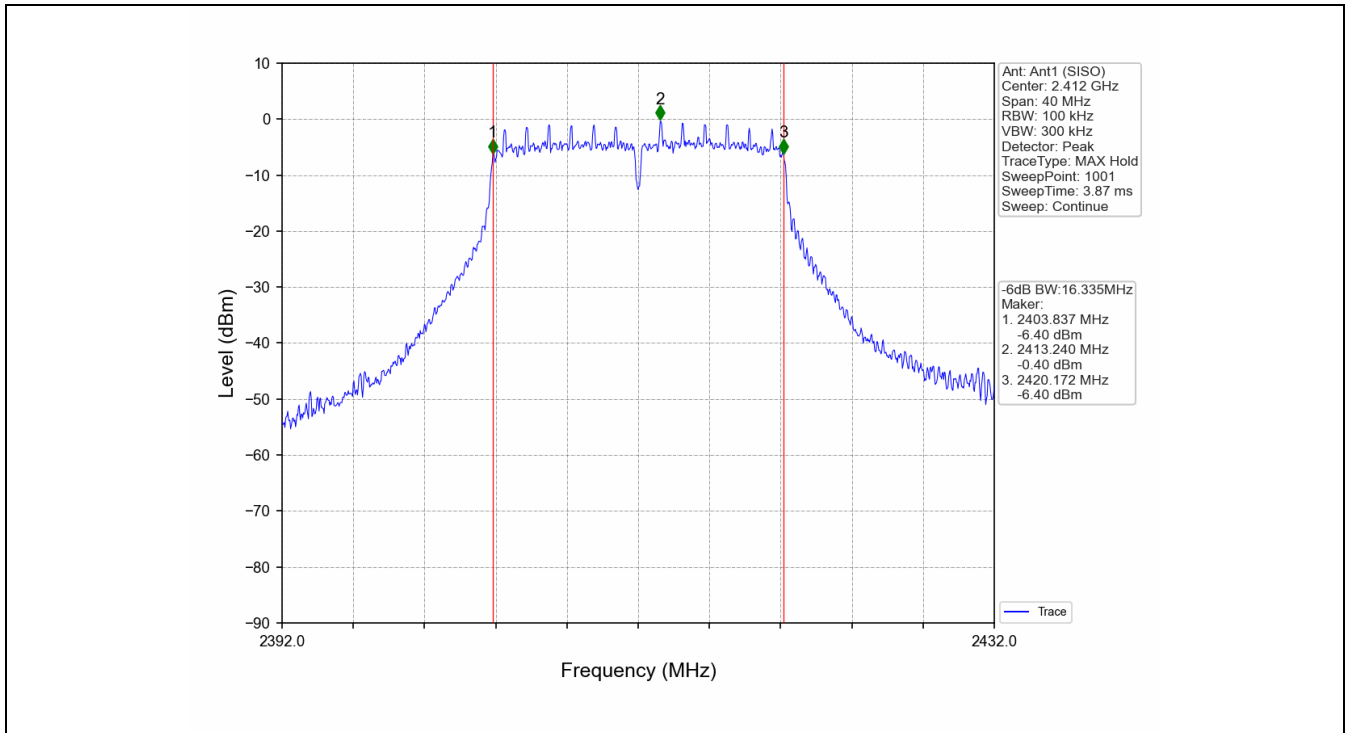


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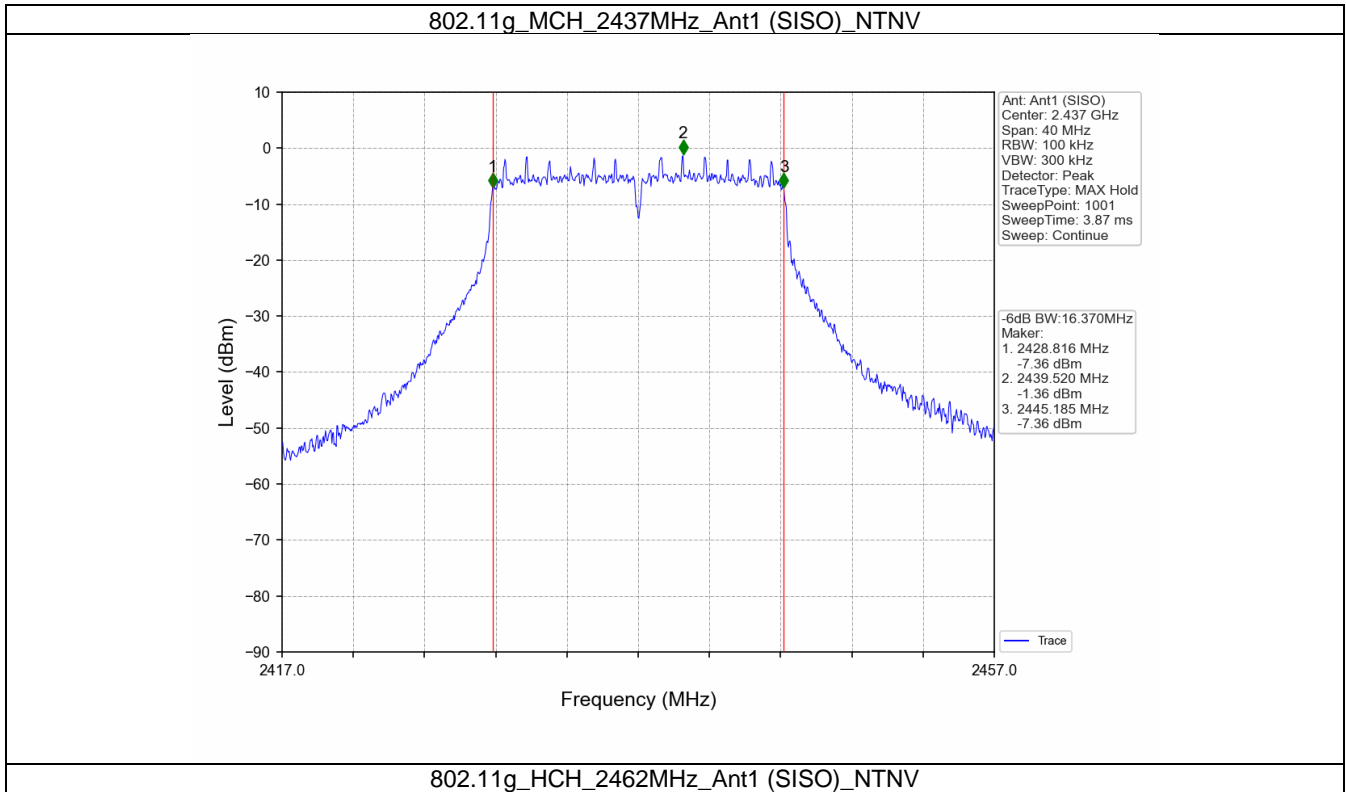


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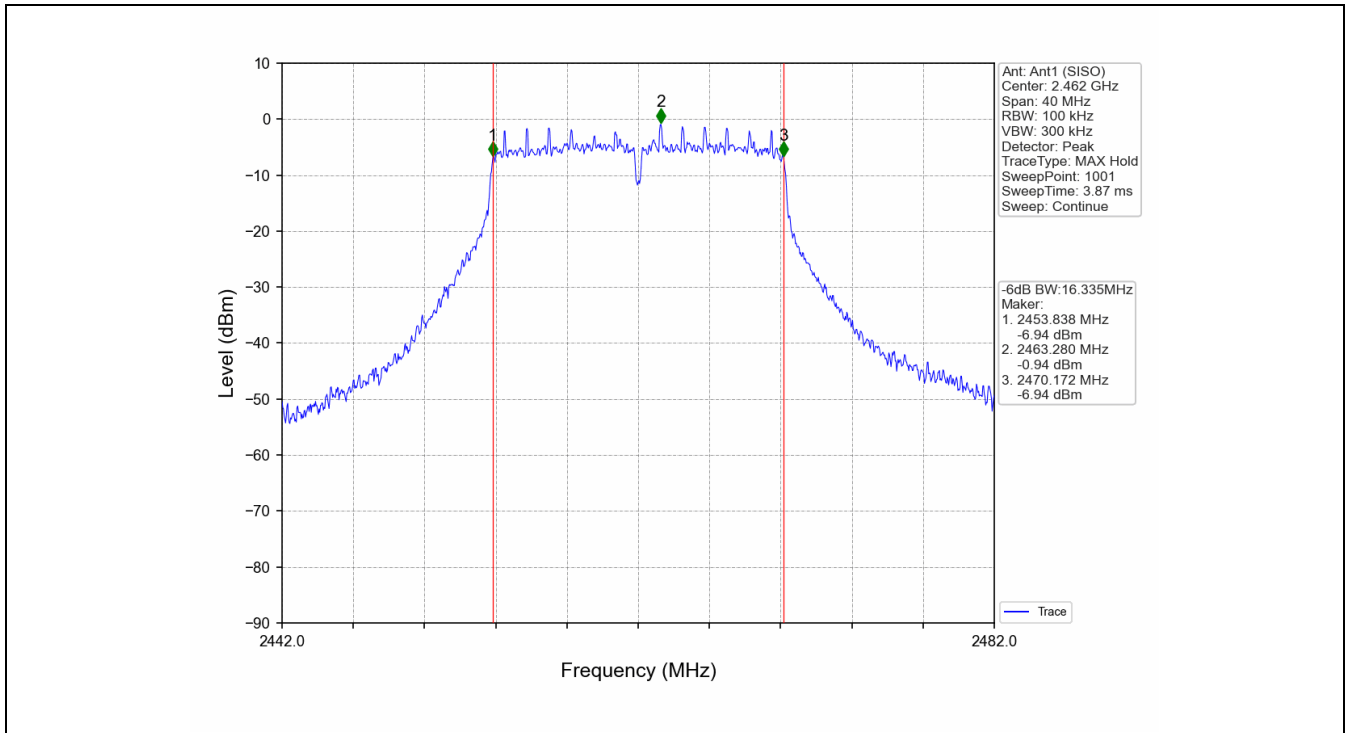
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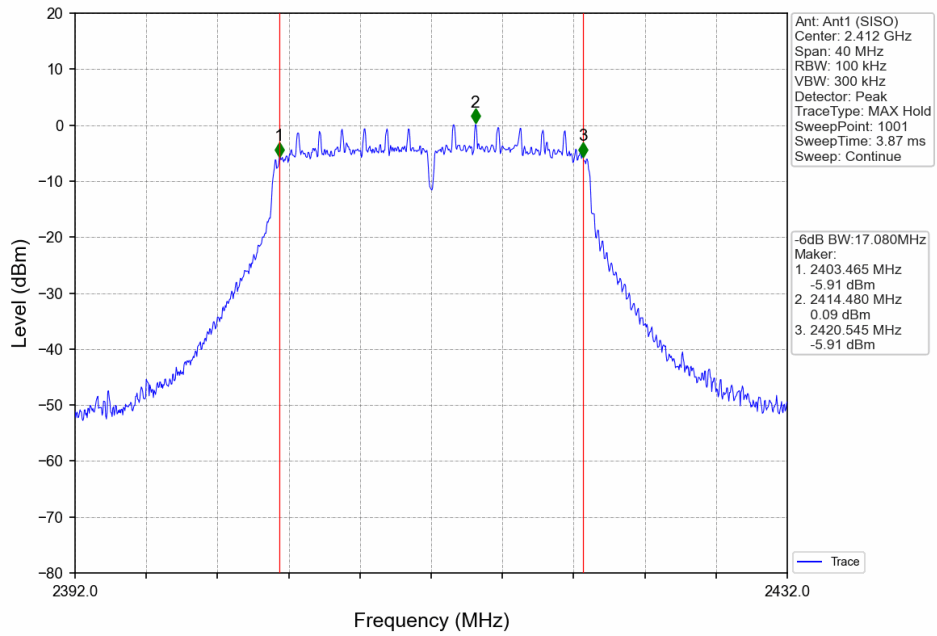
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

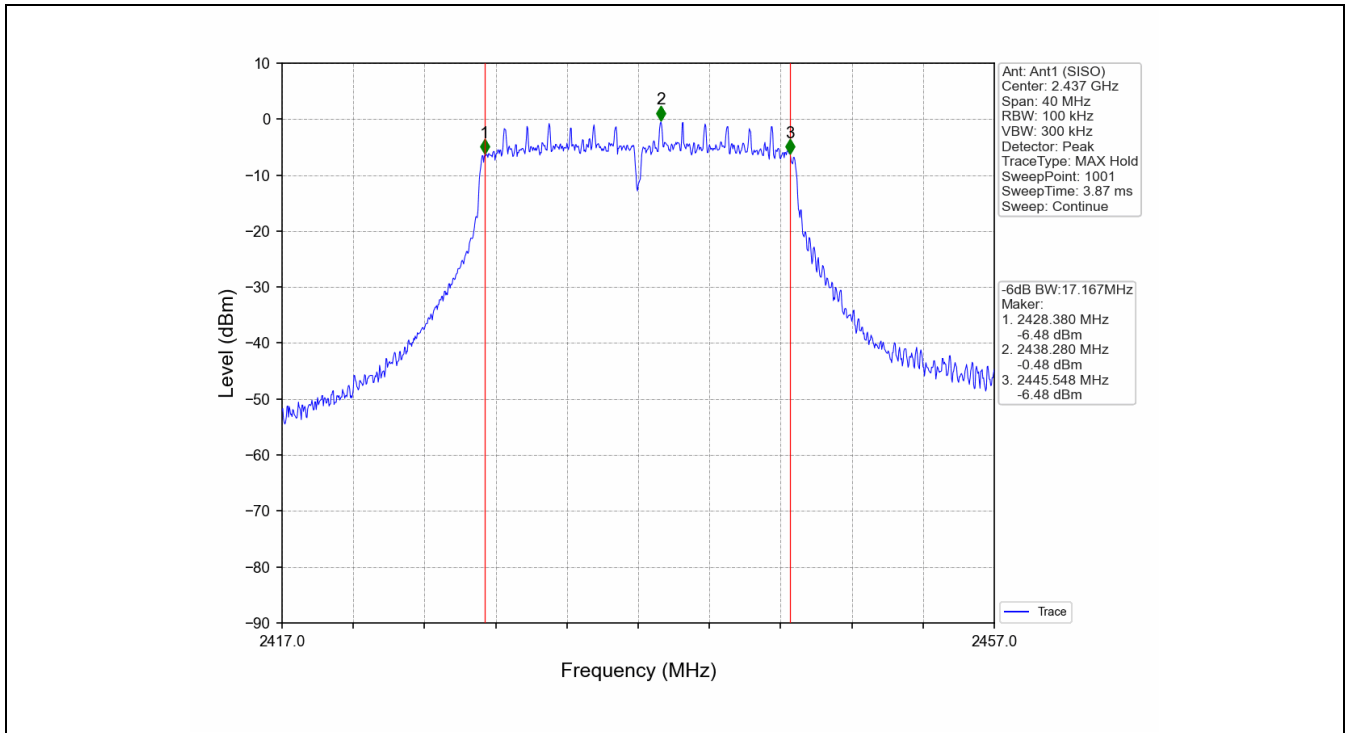


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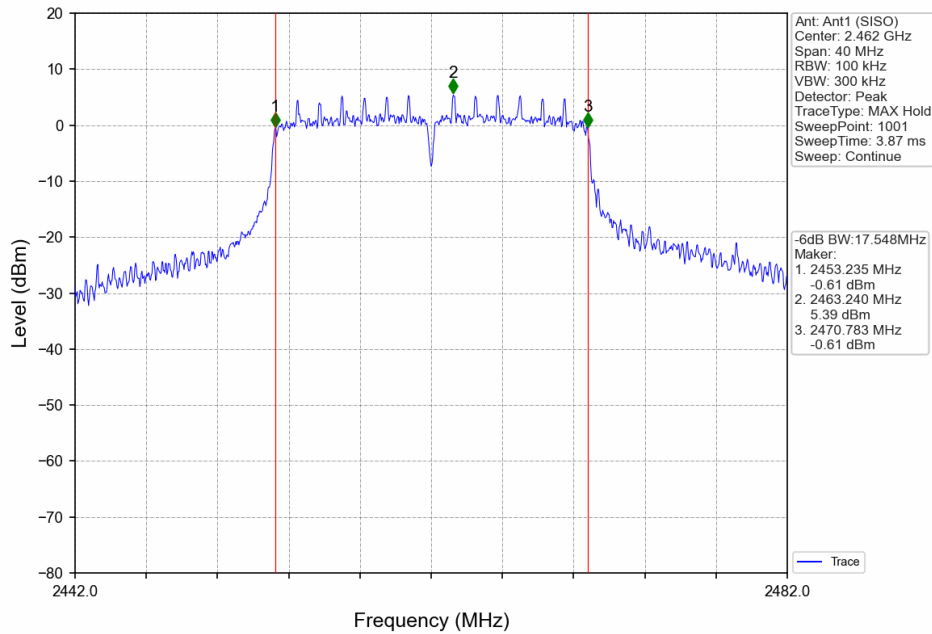
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

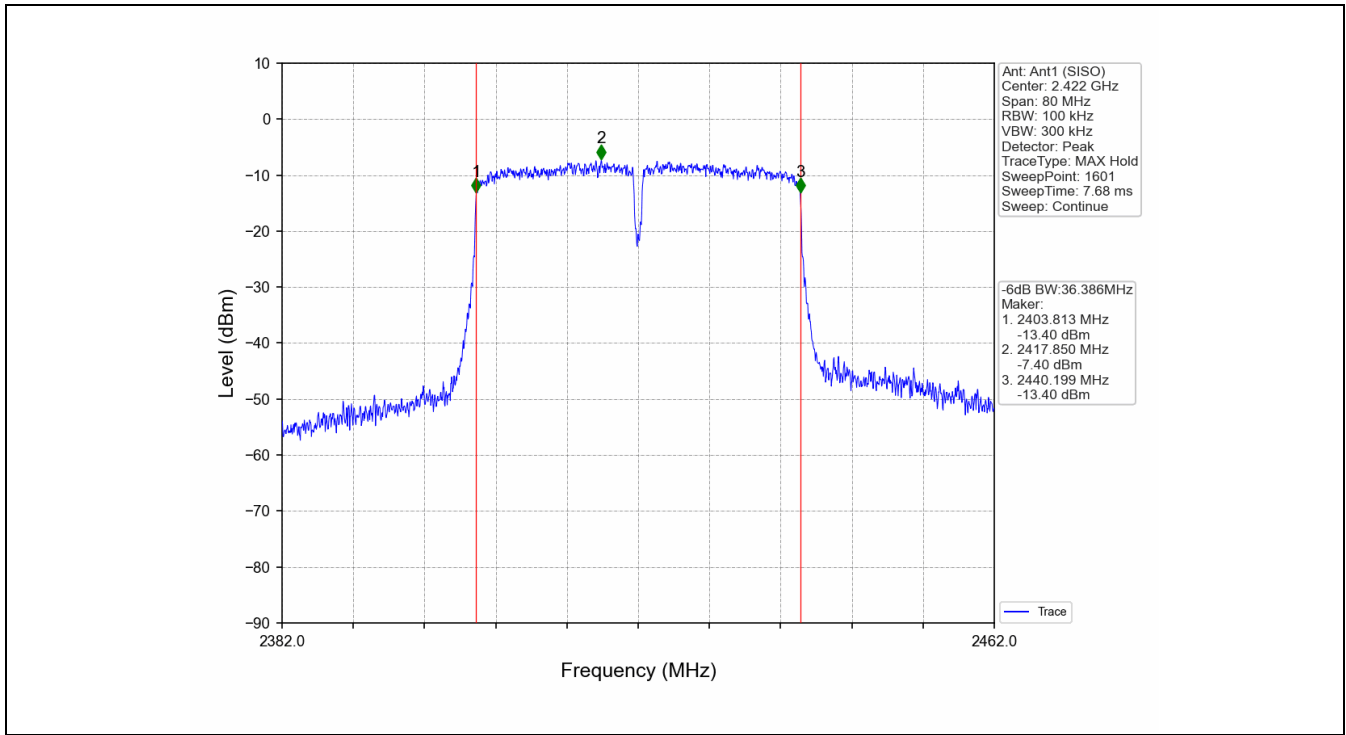


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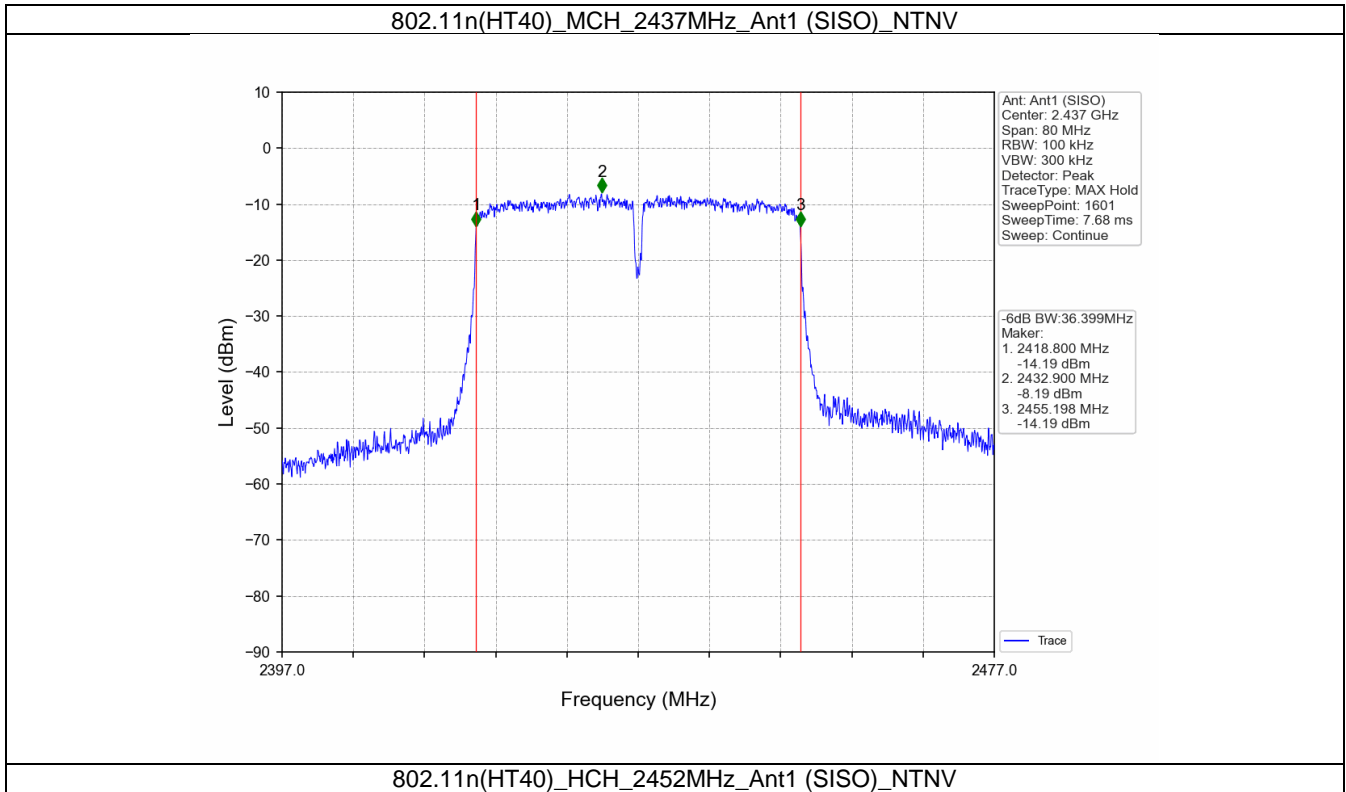
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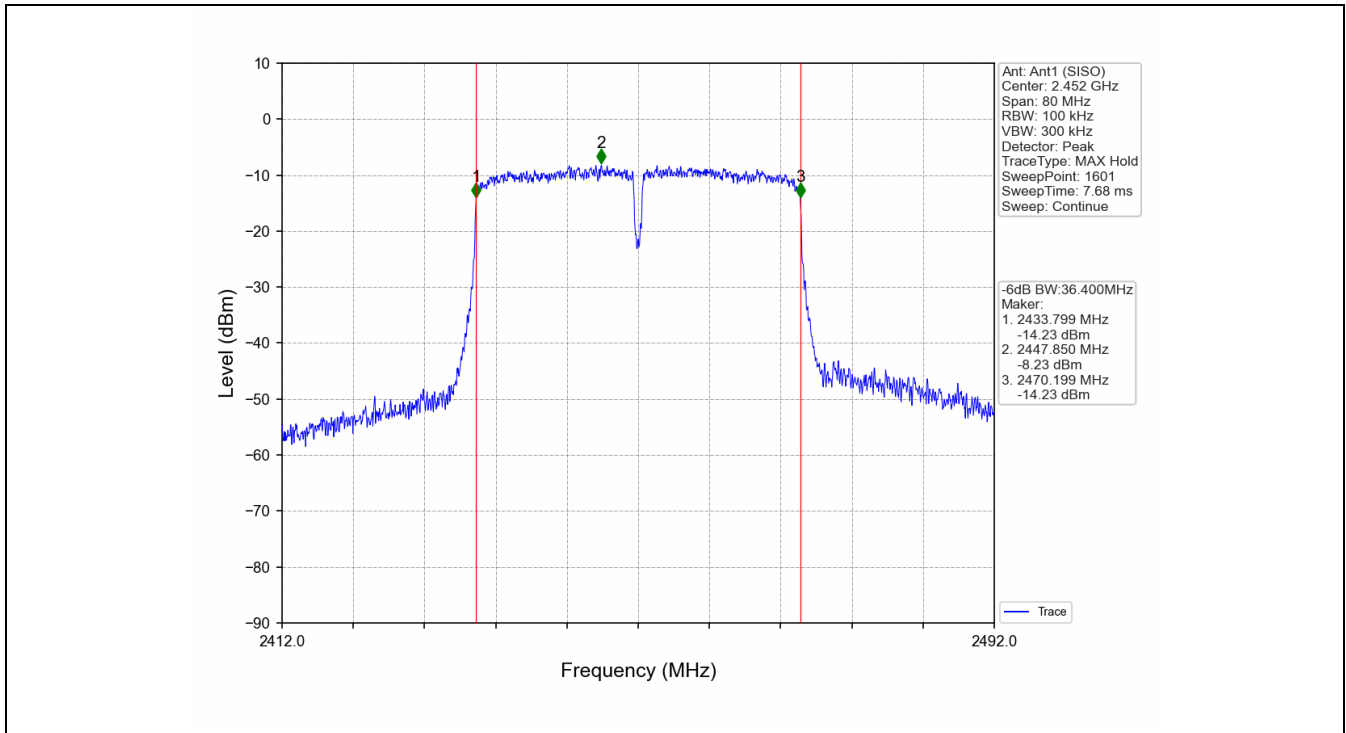


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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	17.38	<=30	Pass
		2437	17.39	<=30	Pass
		2462	17.51	<=30	Pass
802.11g	SISO	2412	18.08	<=30	Pass
		2437	17.64	<=30	Pass
		2462	17.67	<=30	Pass
802.11n (HT20)	SISO	2412	18.16	<=30	Pass
		2437	17.98	<=30	Pass
		2462	23.97	<=30	Pass
802.11n (HT40)	SISO	2422	17.33	<=30	Pass
		2437	16.55	<=30	Pass
		2452	16.60	<=30	Pass

Note1: Antenna Gain: Ant1: 0.50dBi;

### 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	-15.10	<=8	Pass
		2437	-15.11	<=8	Pass
		2462	-14.96	<=8	Pass
802.11g	SISO	2412	-15.04	<=8	Pass
		2437	-15.08	<=8	Pass
		2462	-14.66	<=8	Pass
802.11n (HT20)	SISO	2412	-14.23	<=8	Pass
		2437	-14.70	<=8	Pass
		2462	-7.53	<=8	Pass
802.11n (HT40)	SISO	2422	-18.42	<=8	Pass
		2437	-20.92	<=8	Pass
		2452	-19.10	<=8	Pass

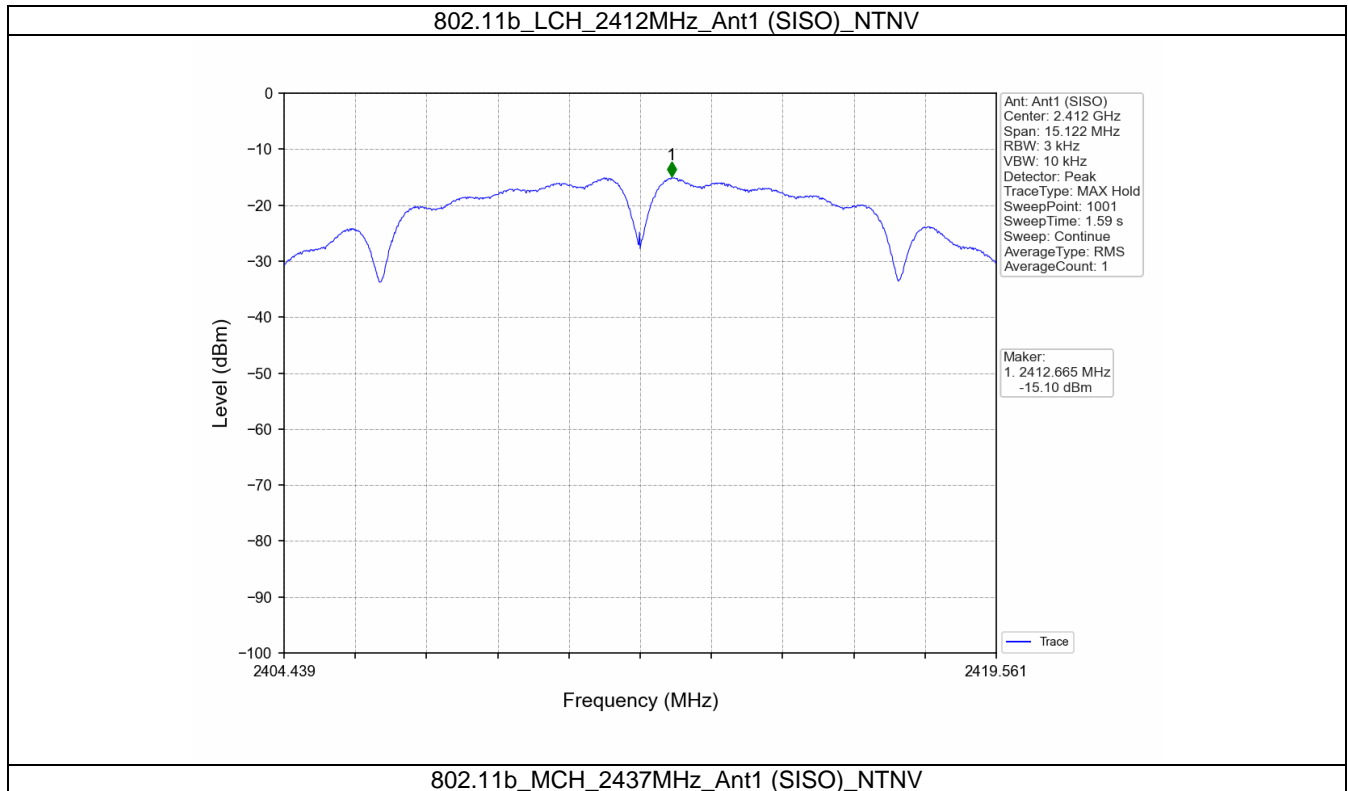
Note1: Antenna Gain: Ant1: 0.50dBi;



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### 4.1.2 Test Graph



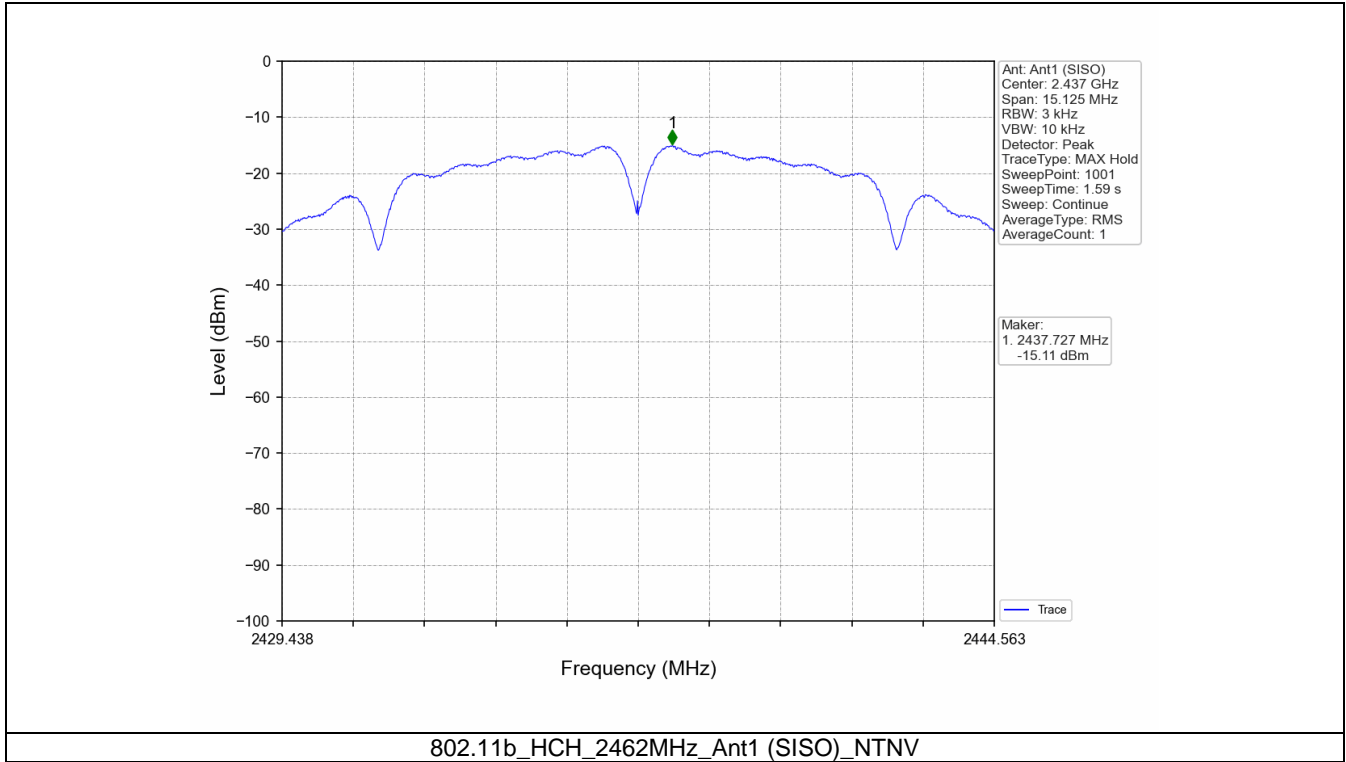
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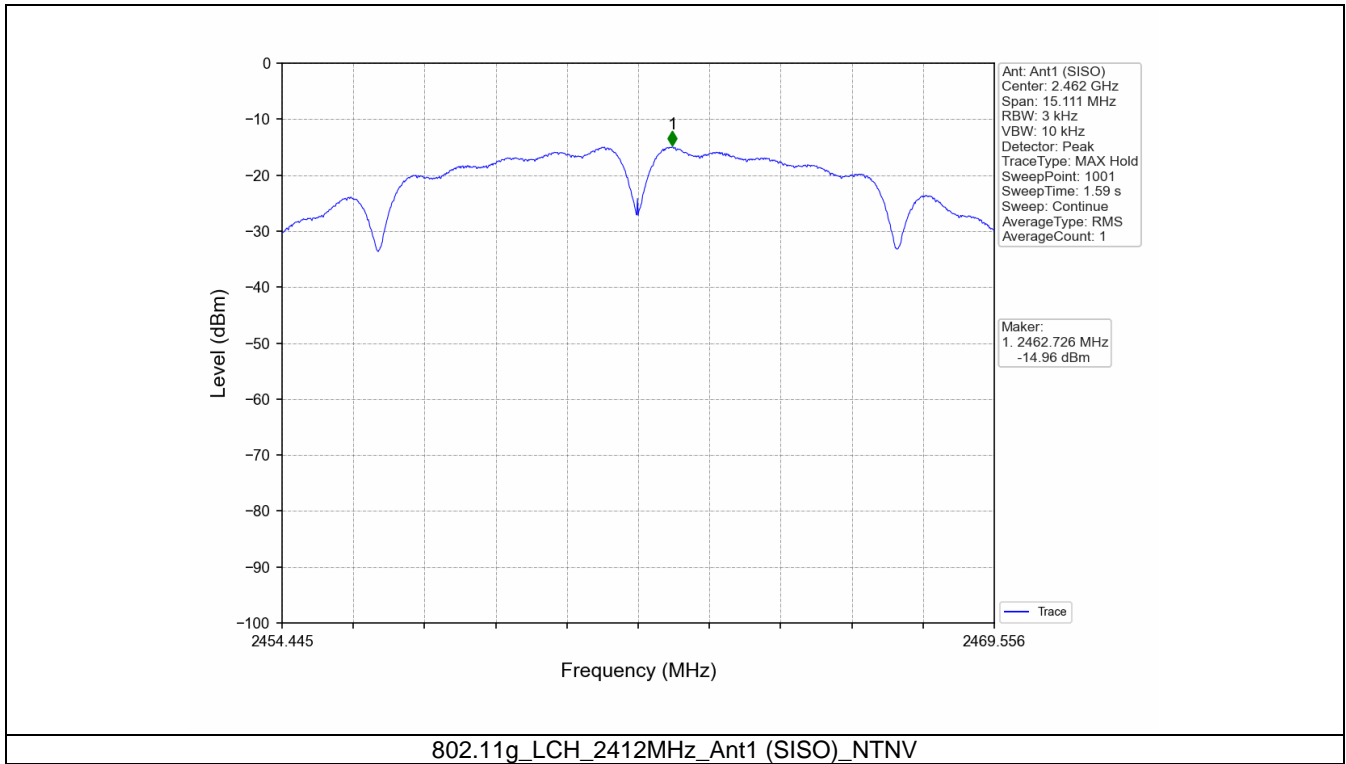


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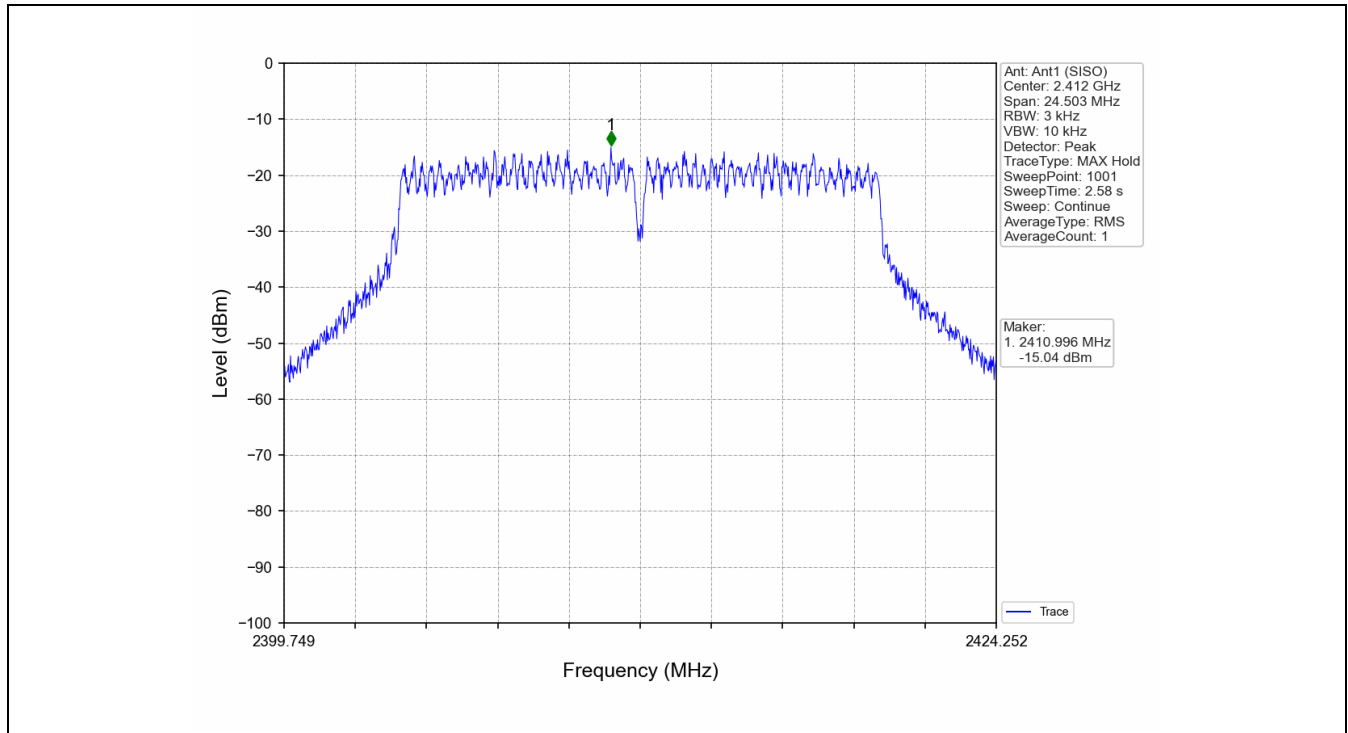


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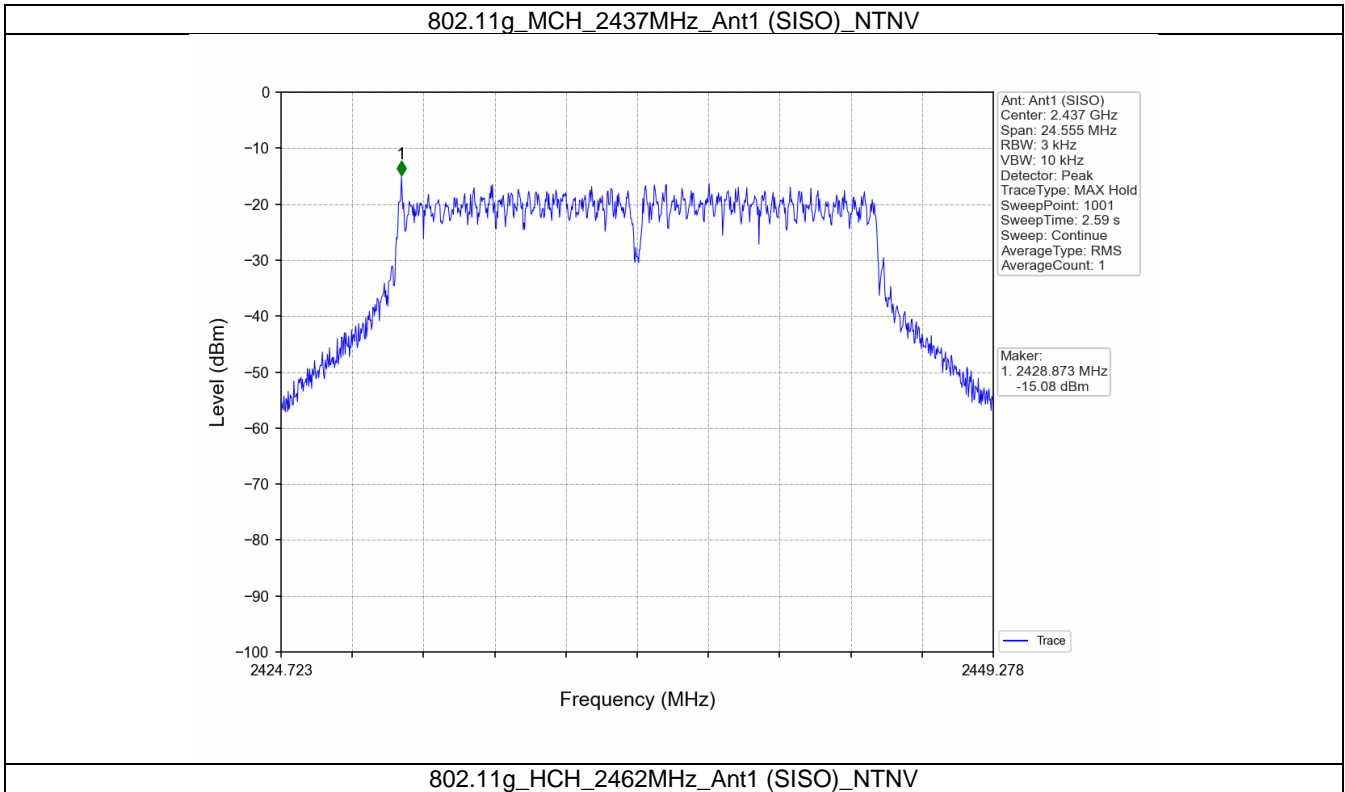
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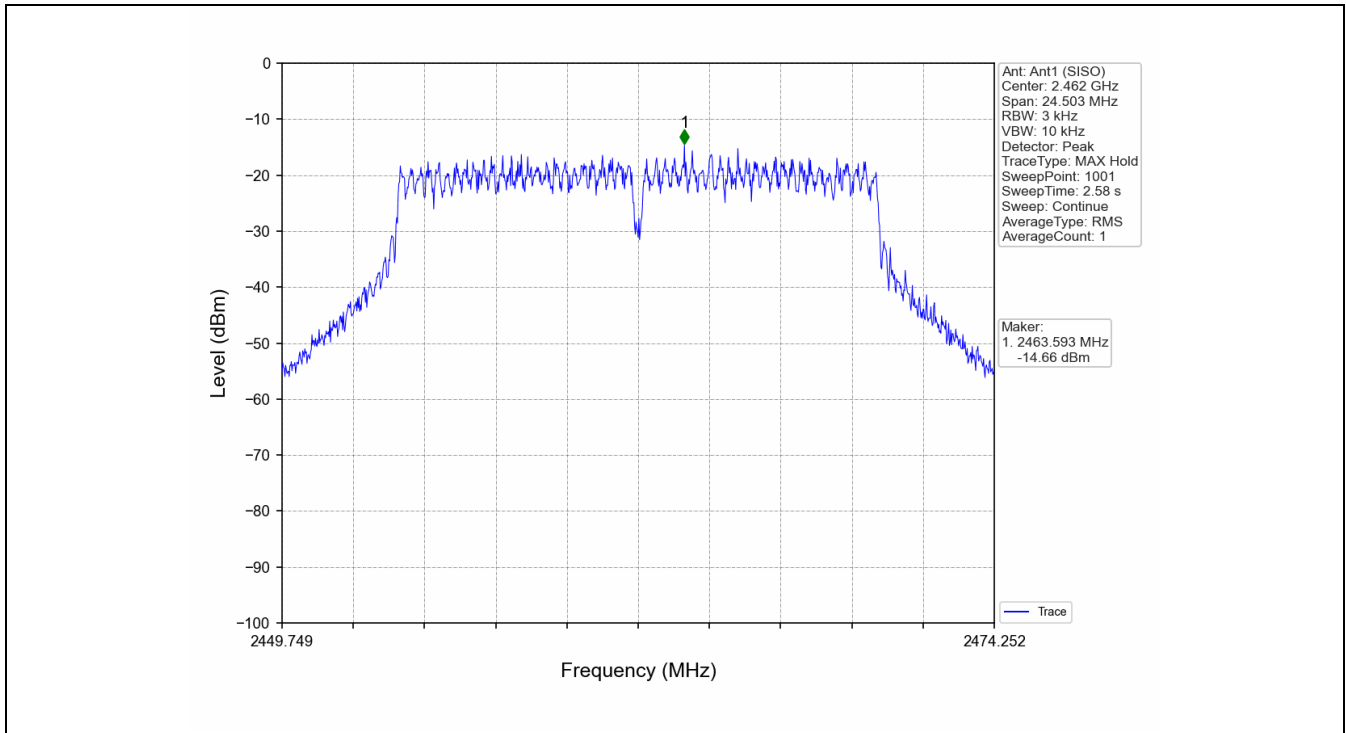
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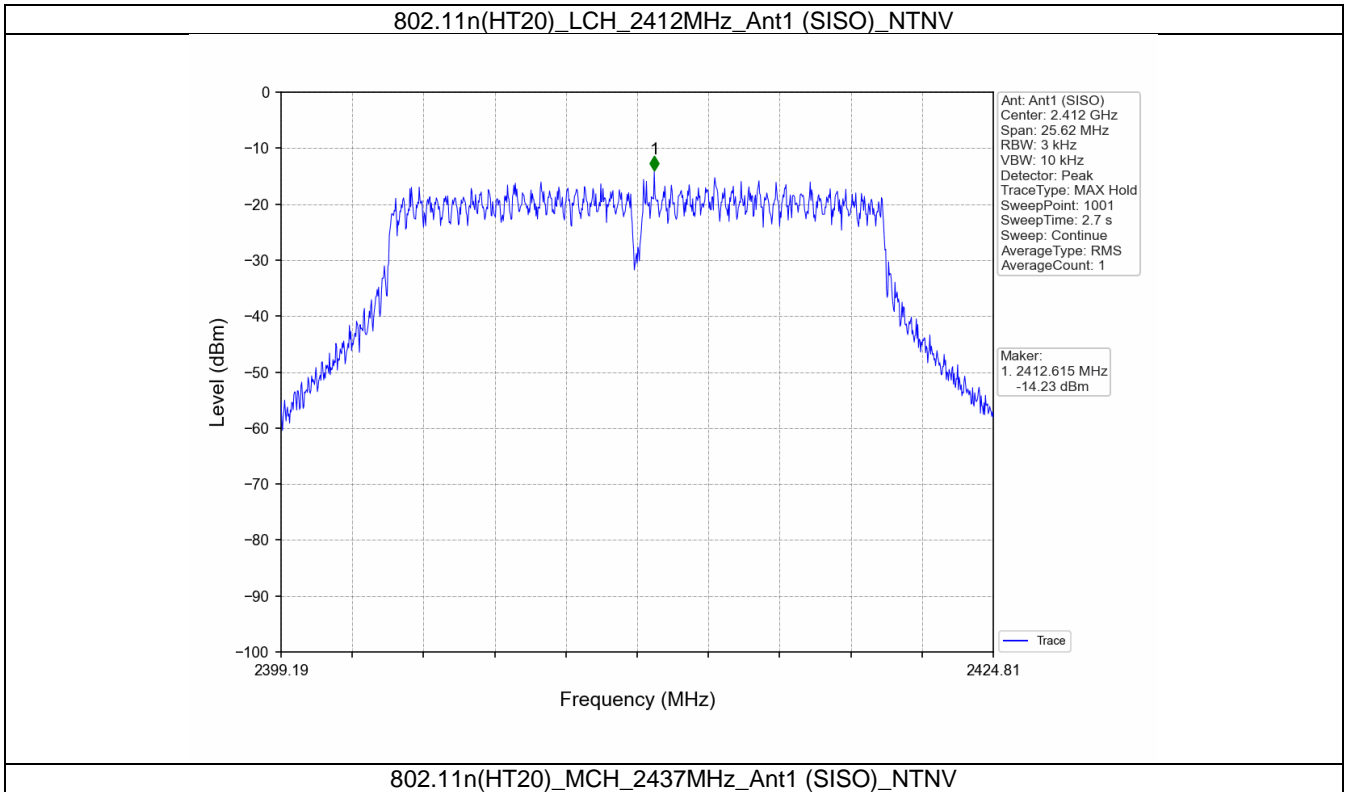
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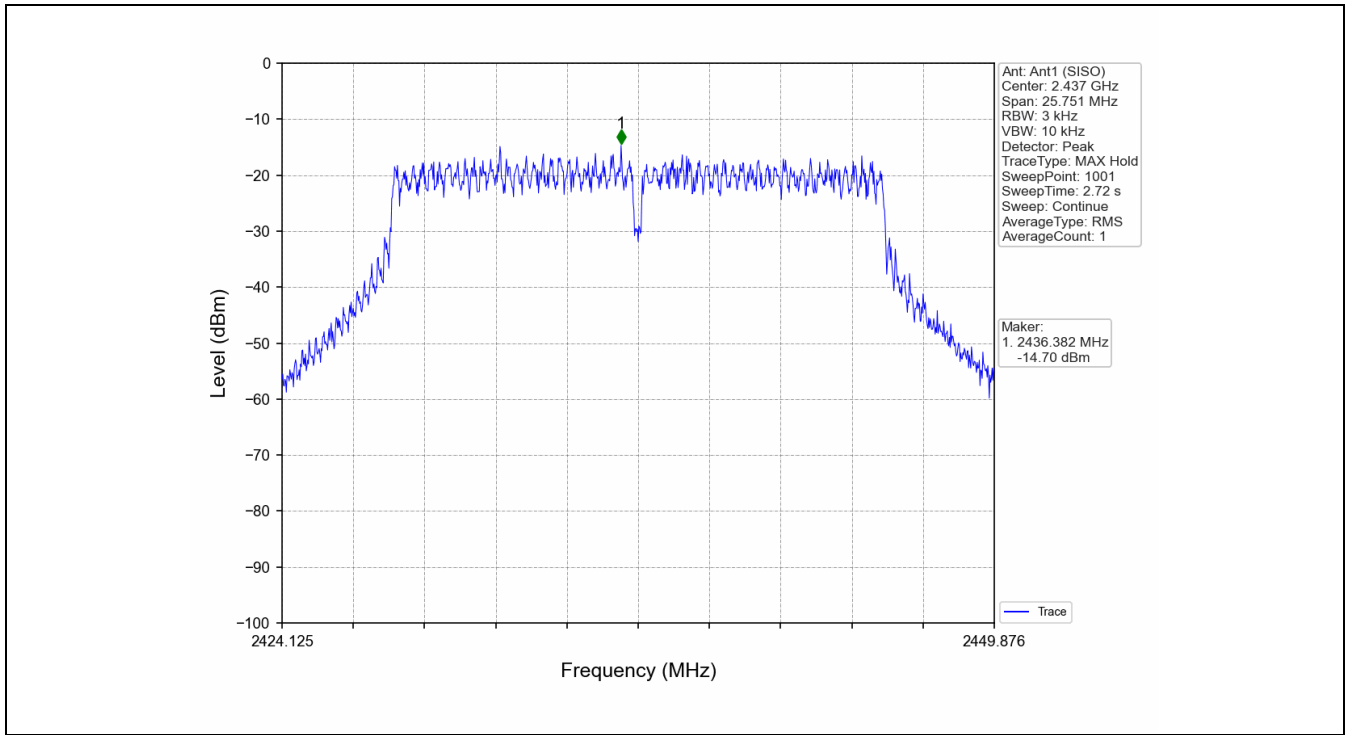


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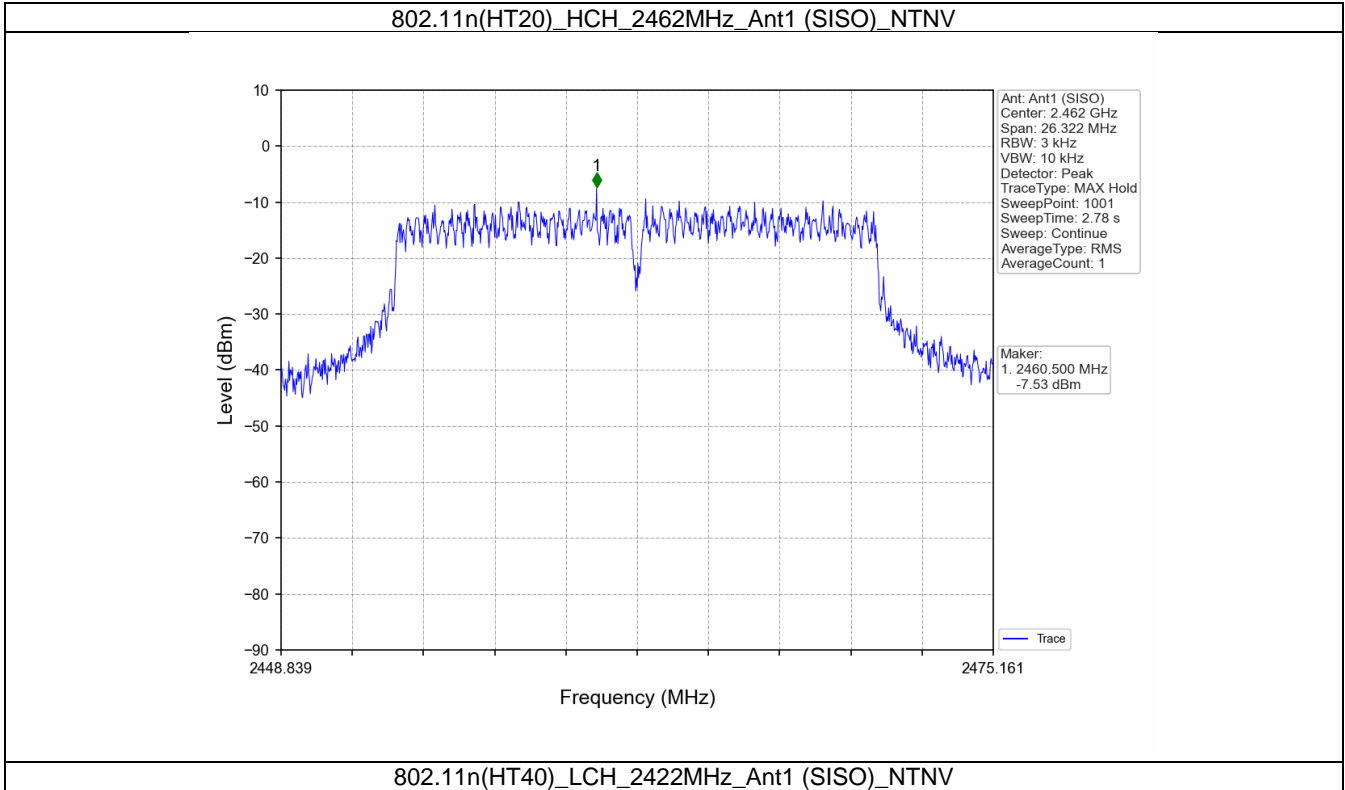
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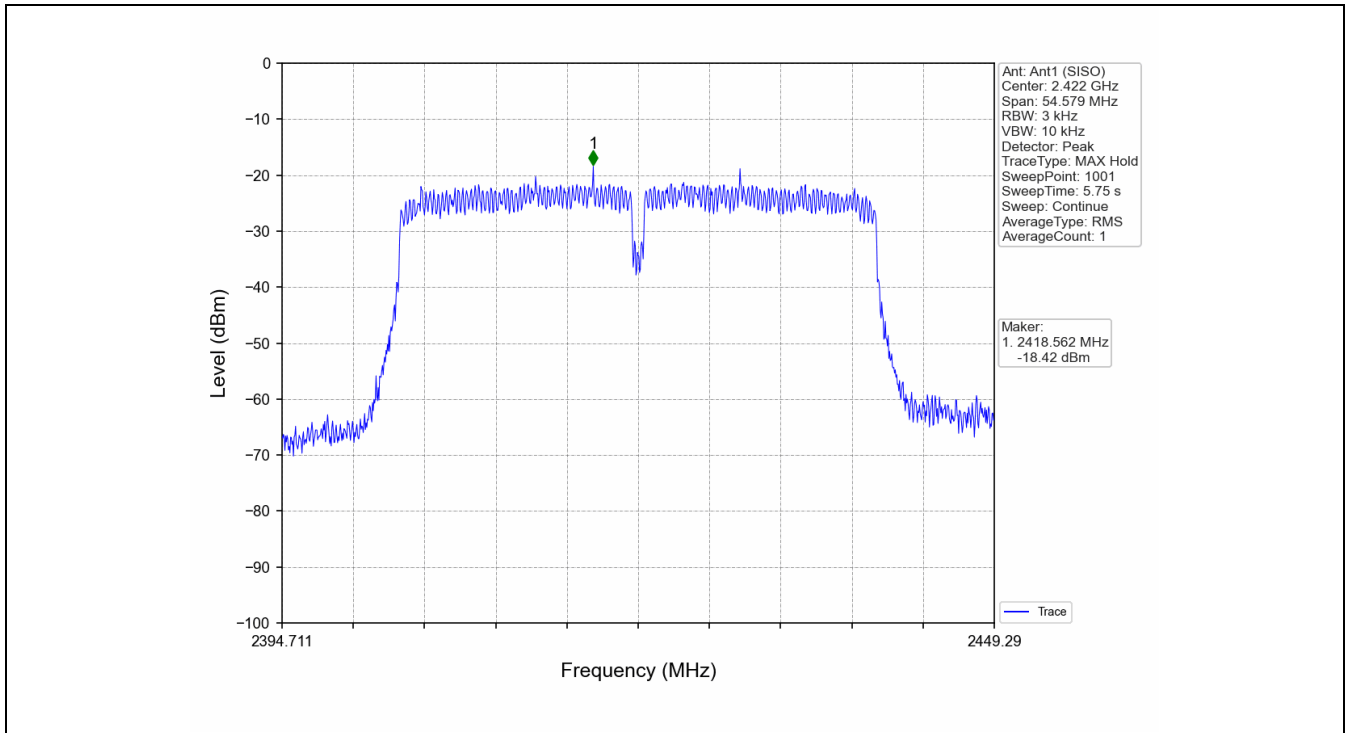
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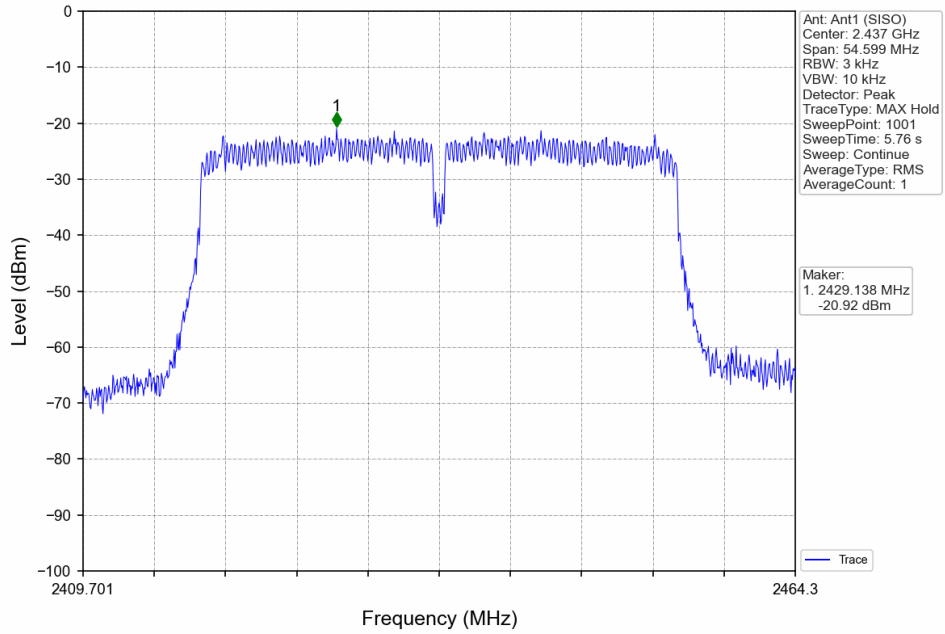


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

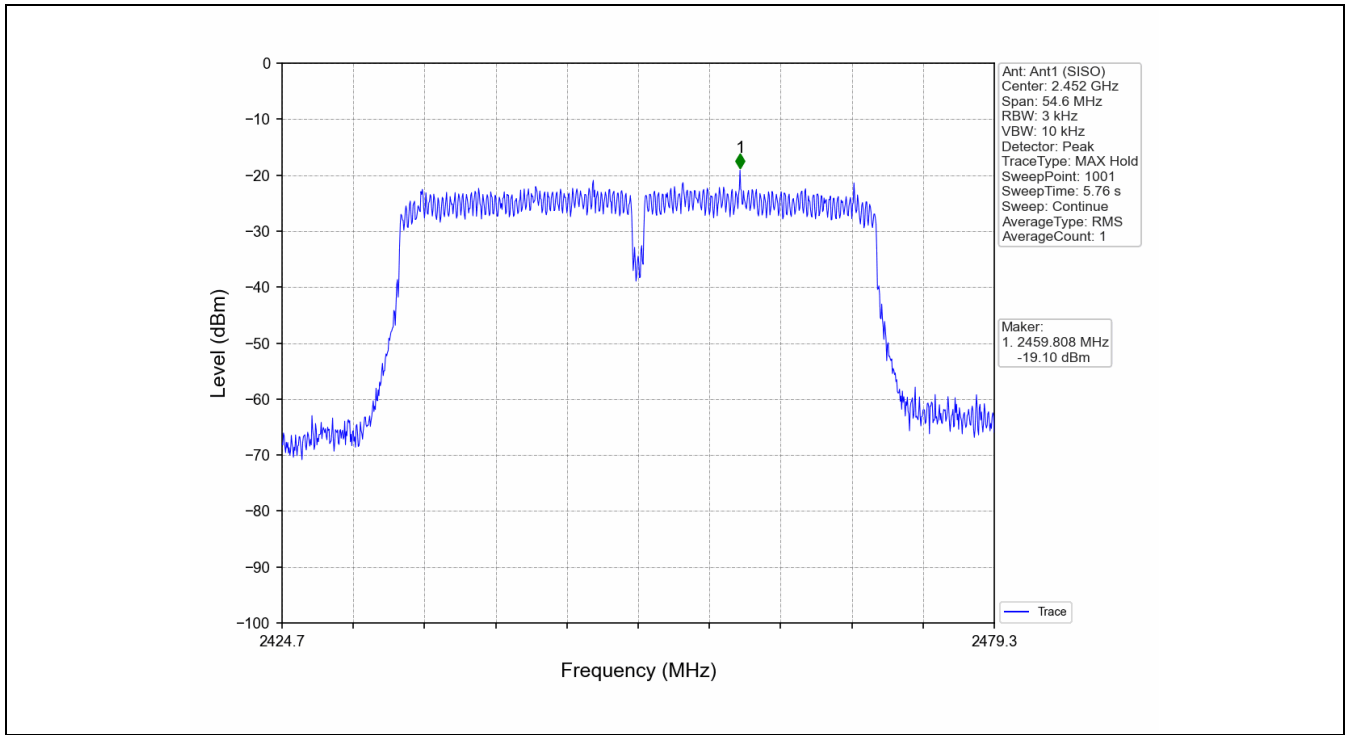


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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.75
		2437	1	4.80
		2462	1	4.94
802.11g	SISO	2412	1	-0.55
		2437	1	-1.51
		2462	1	-1.32
802.11n (HT20)	SISO	2412	1	-0.15
		2437	1	-0.57
		2462	1	5.52
802.11n (HT40)	SISO	2422	1	-7.63
		2437	1	-8.47
		2452	1	-3.22

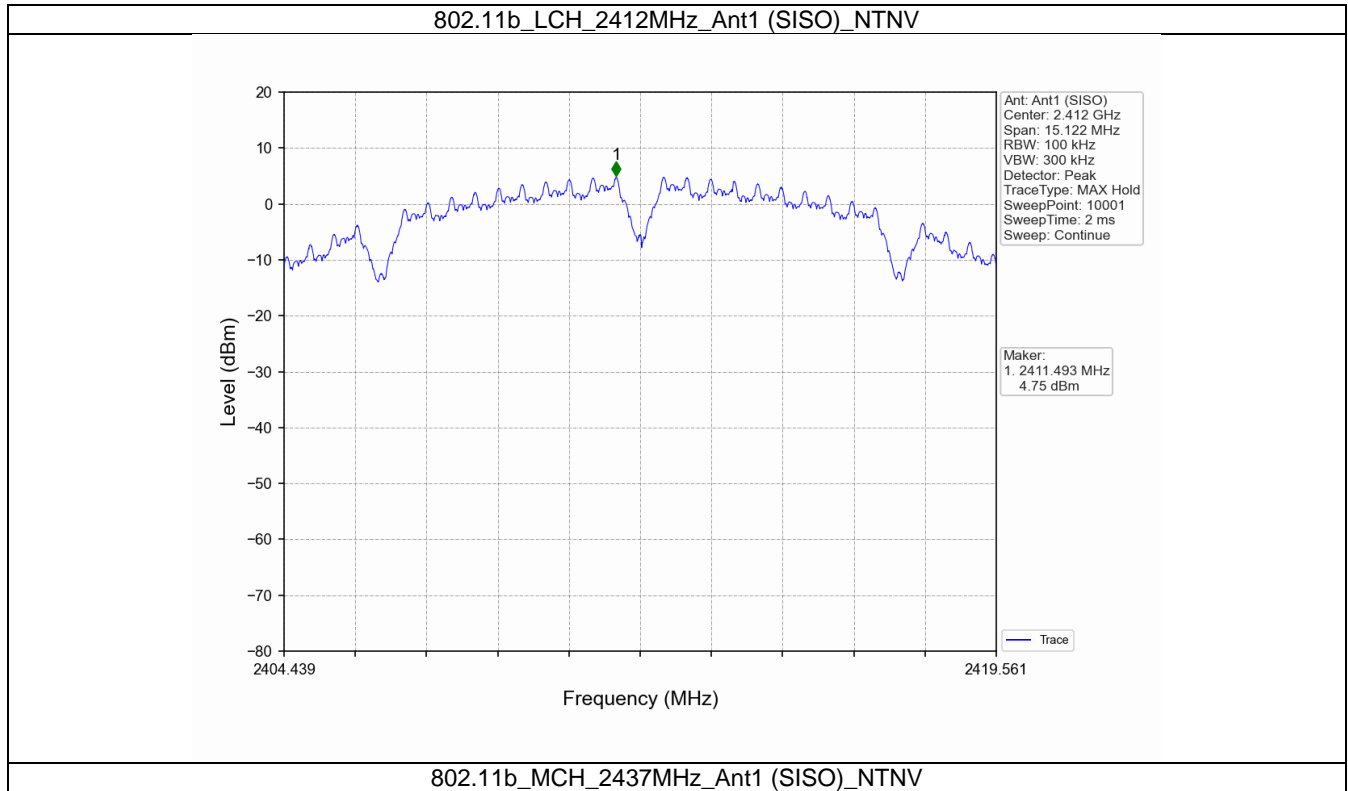
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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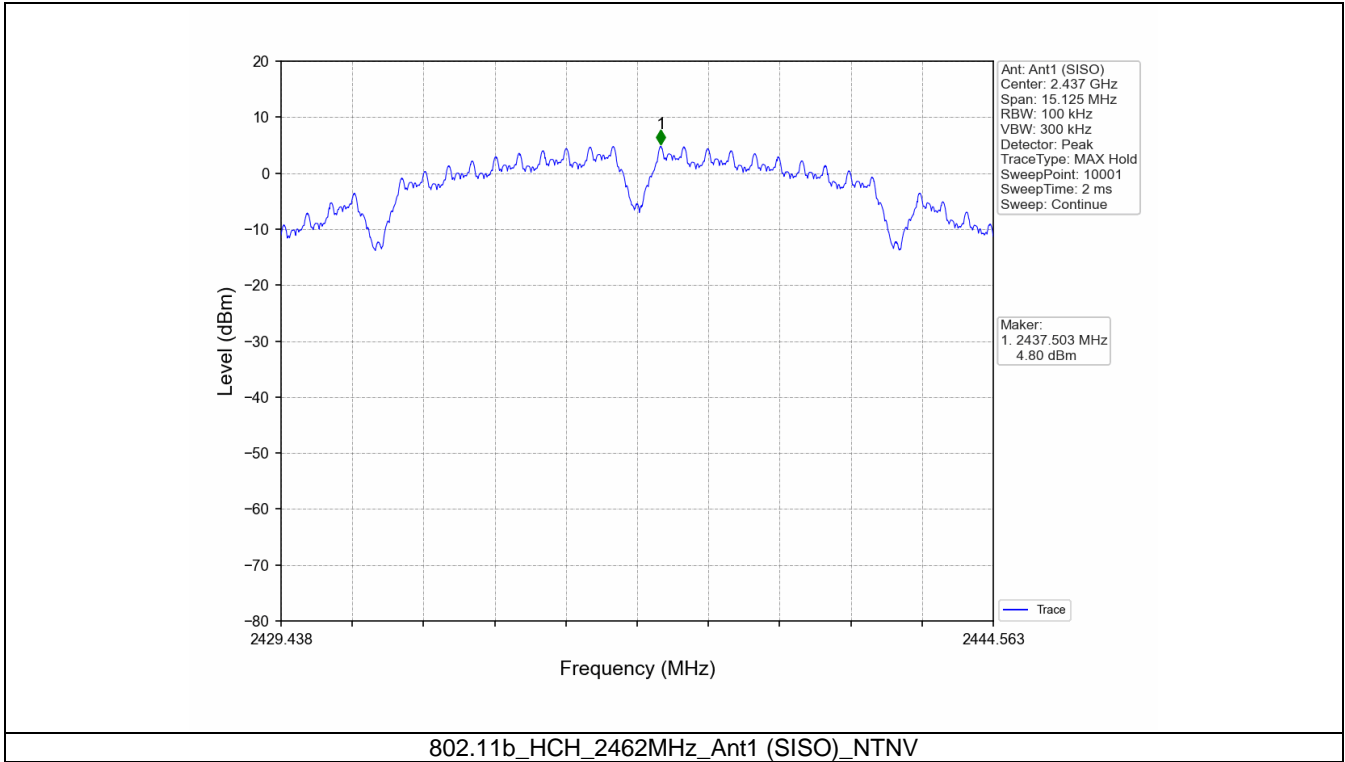
5.1.2 Test Graph



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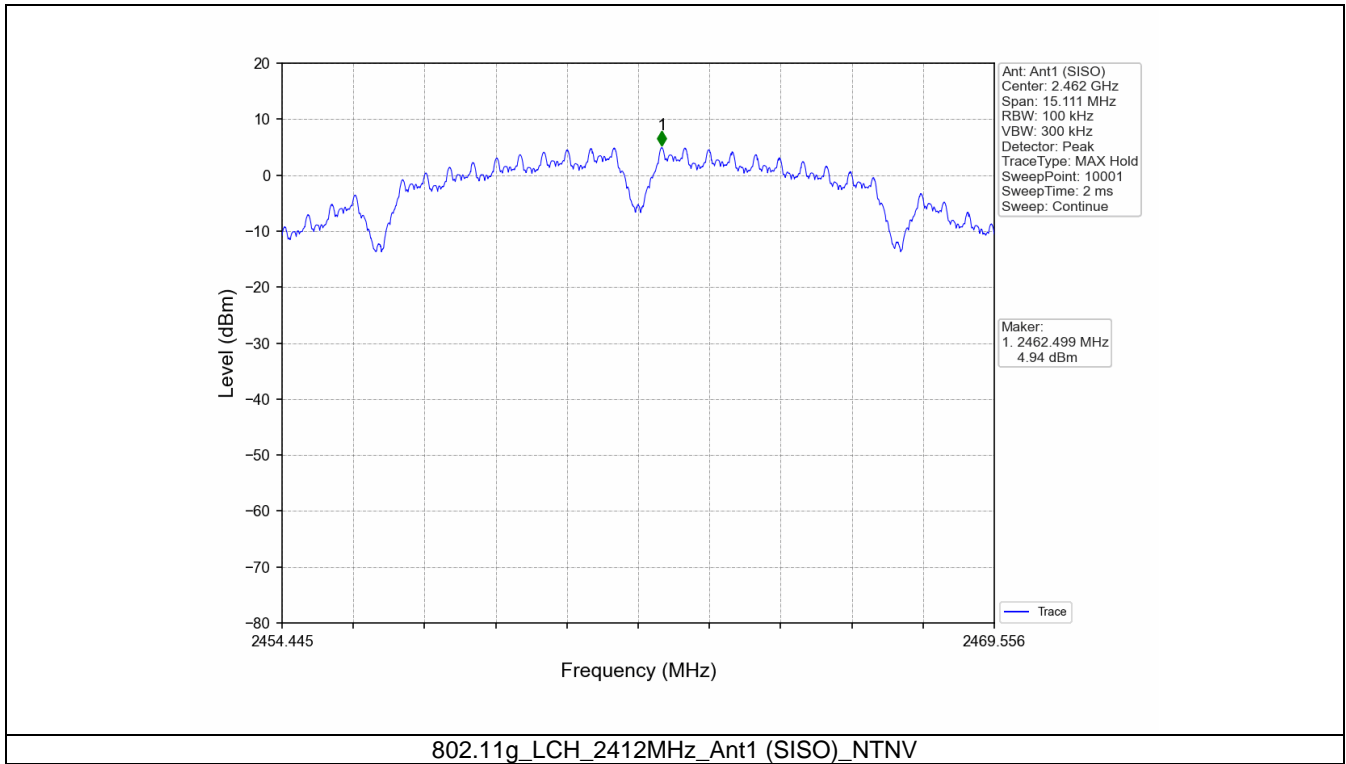
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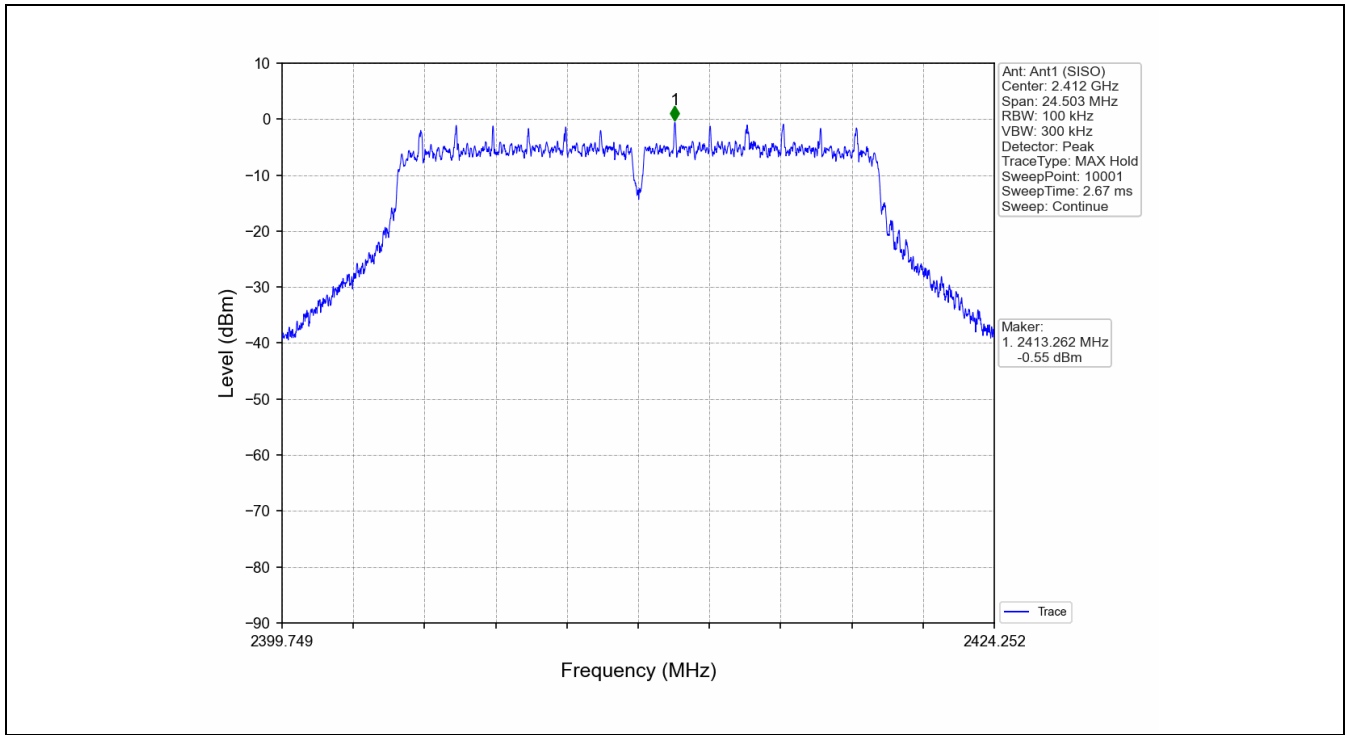
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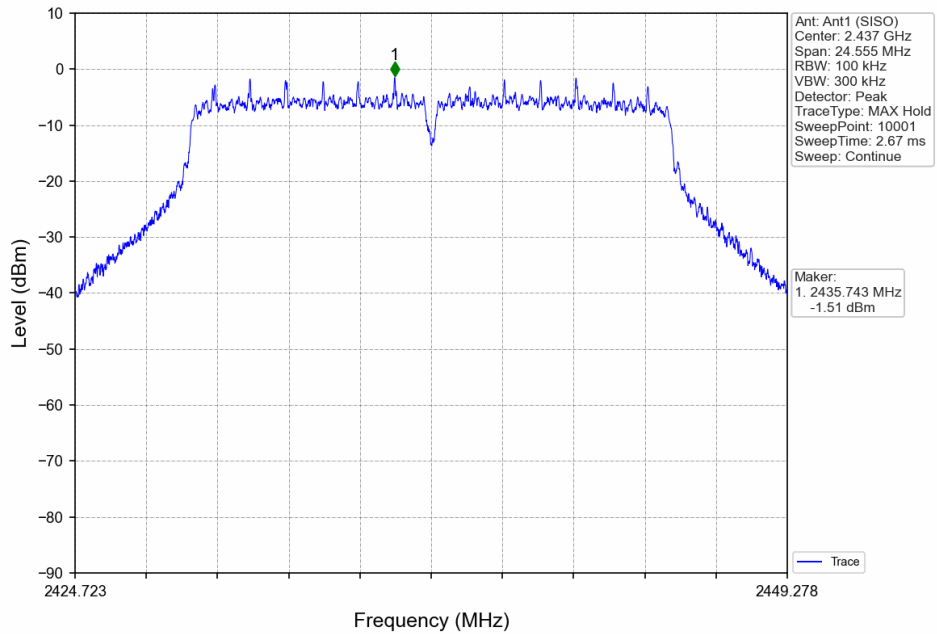
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

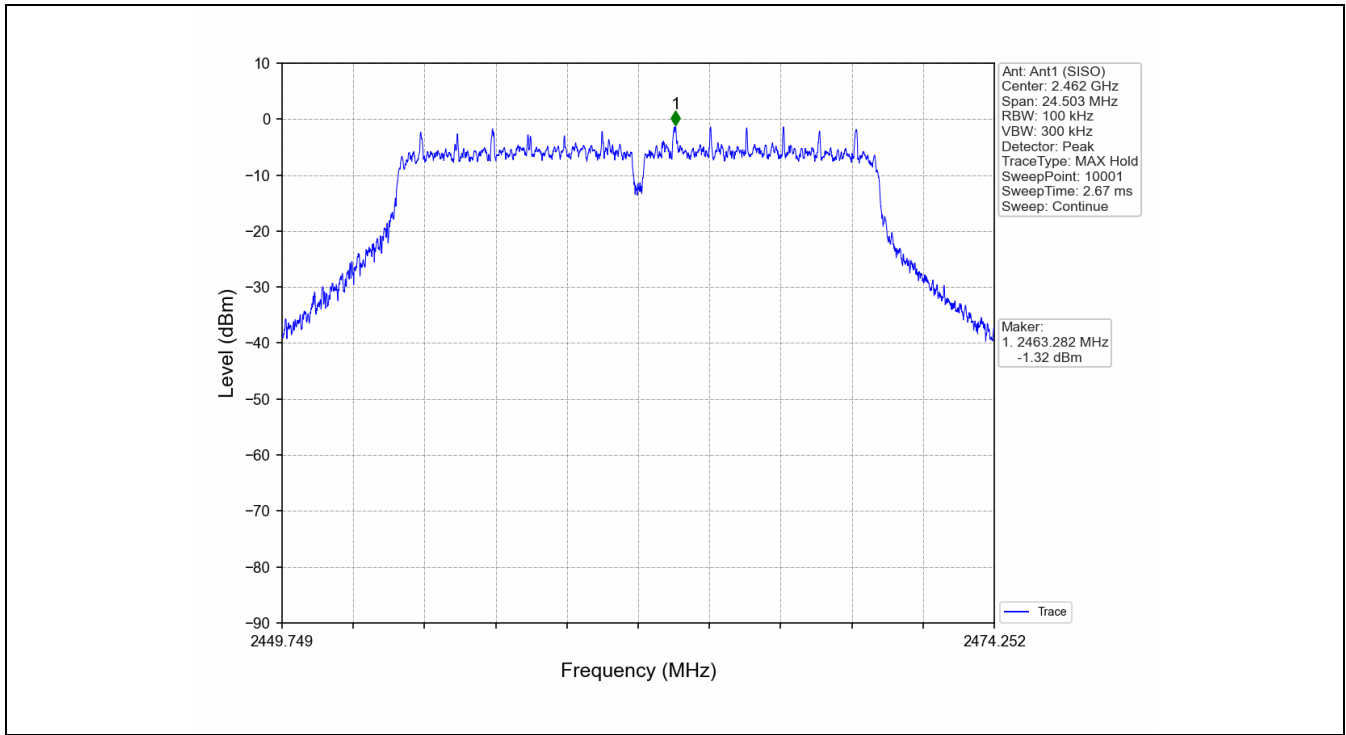


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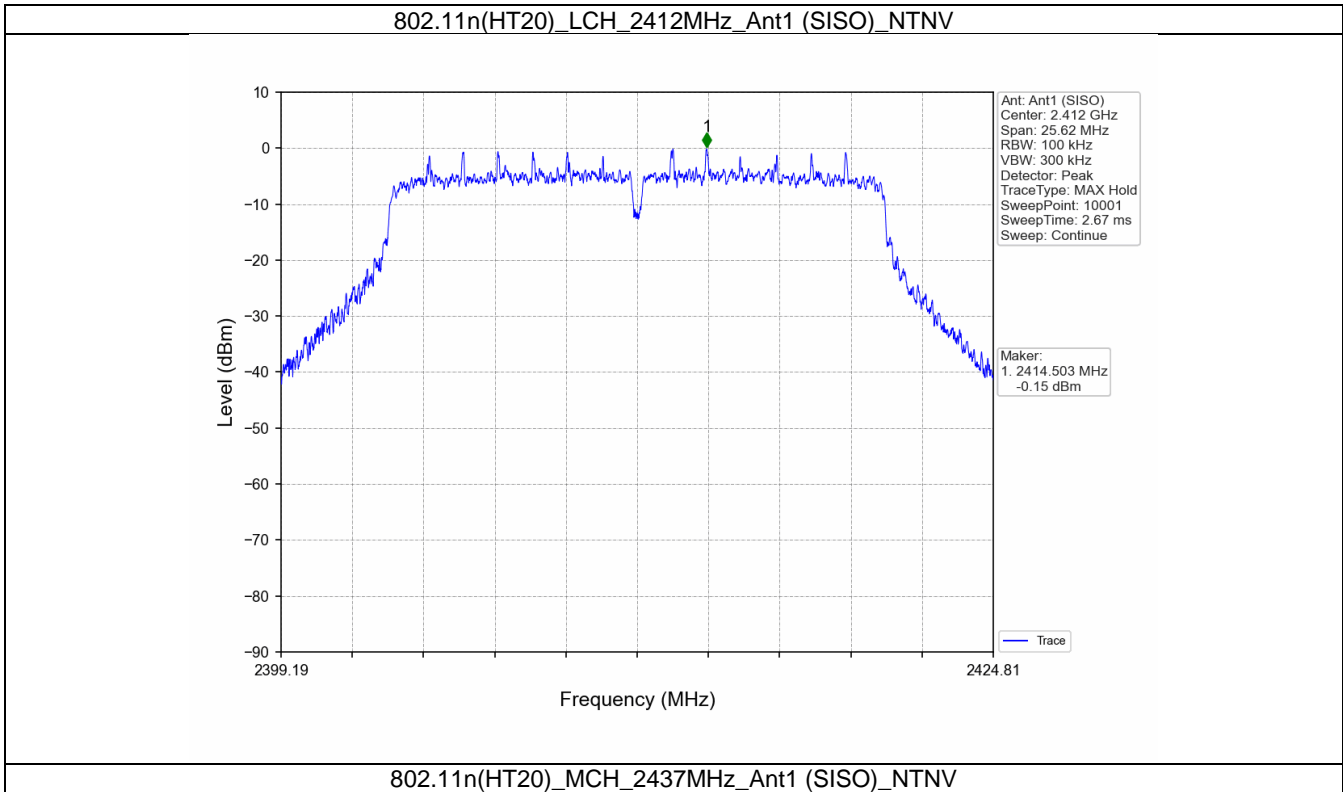


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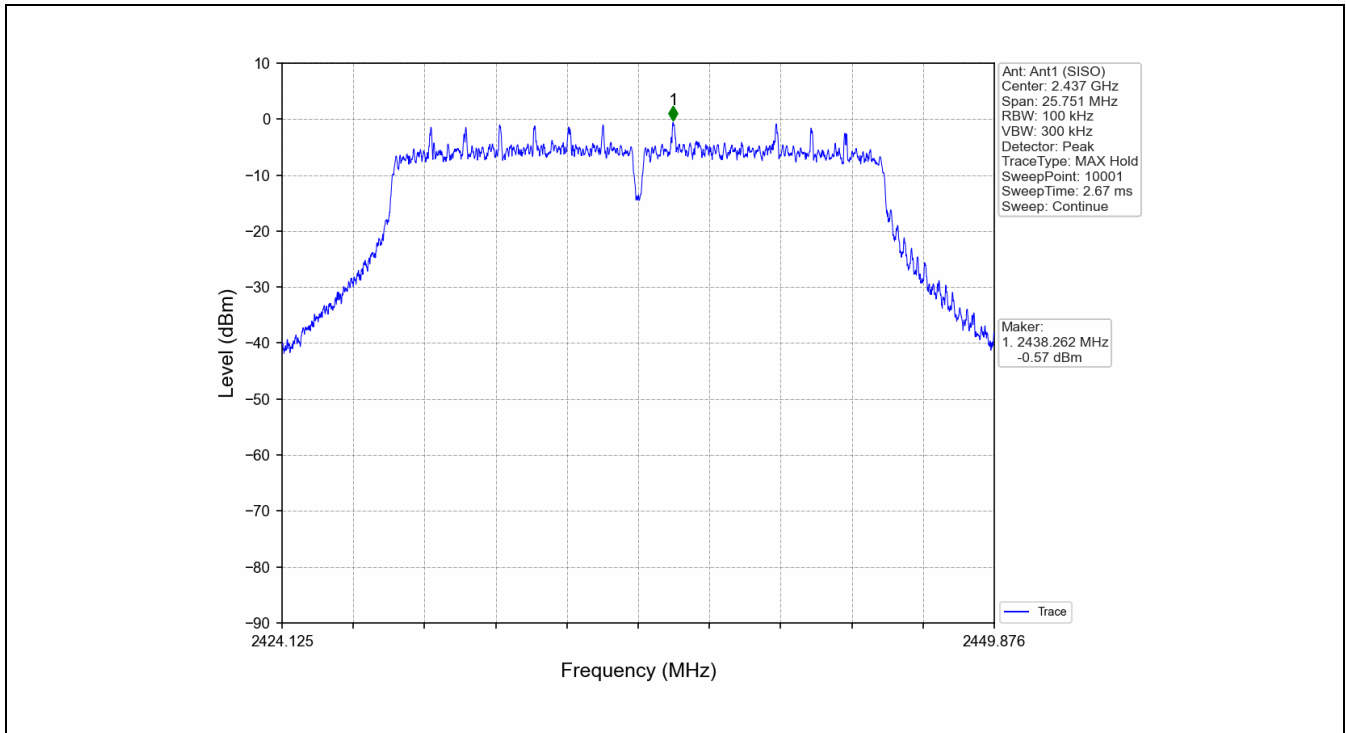


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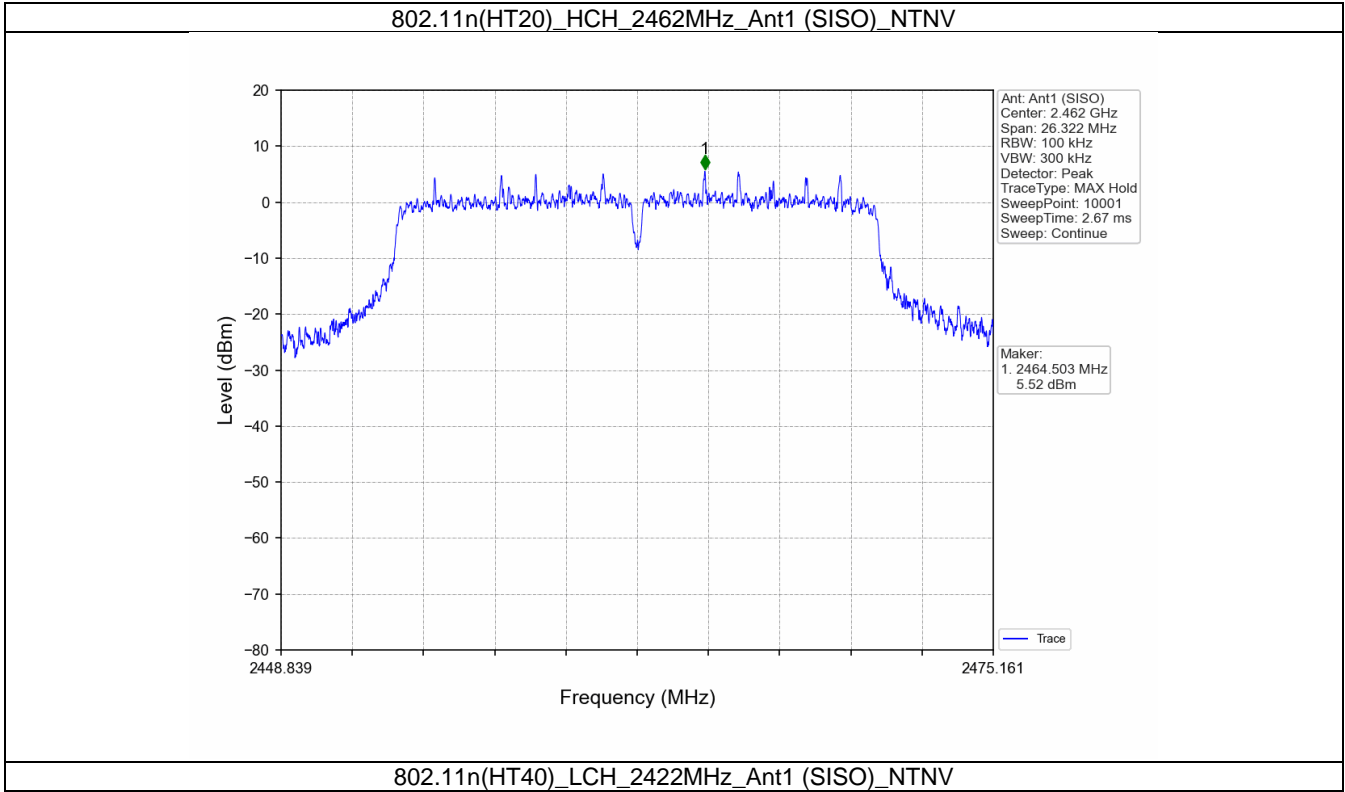
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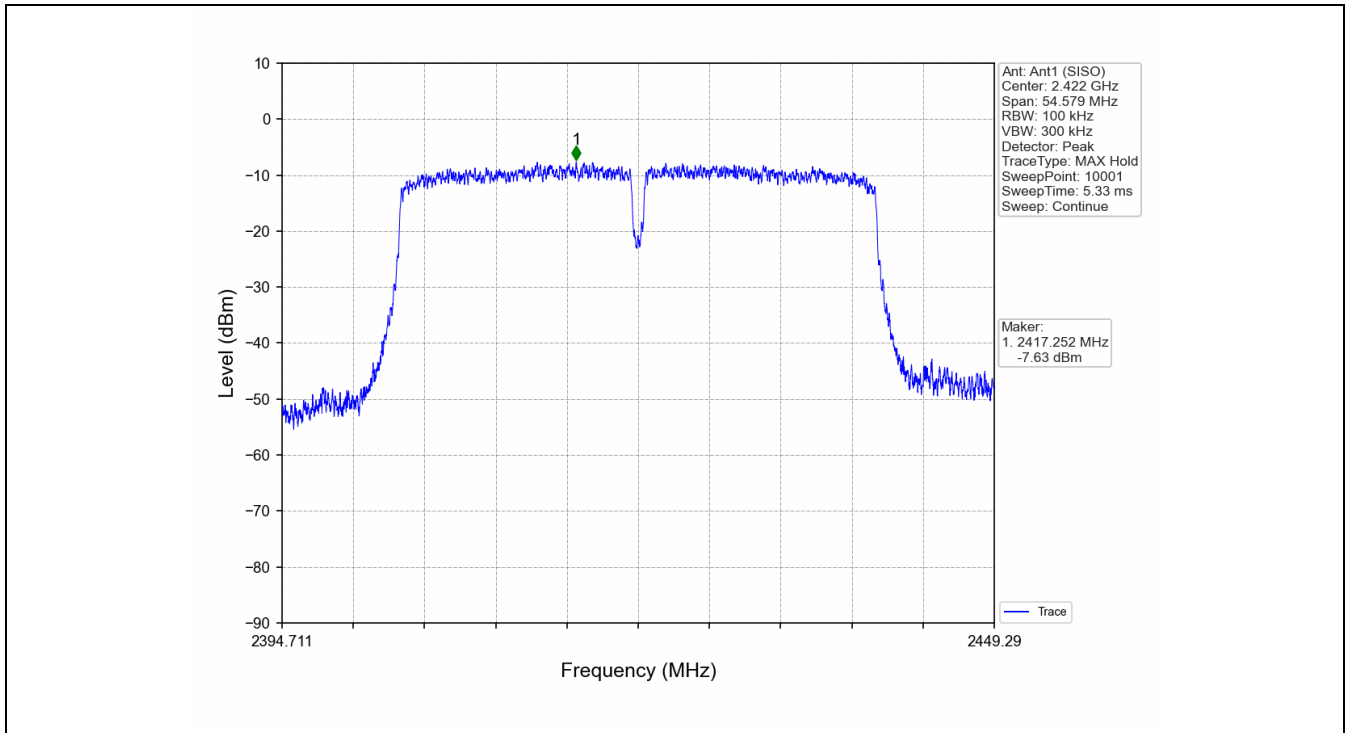


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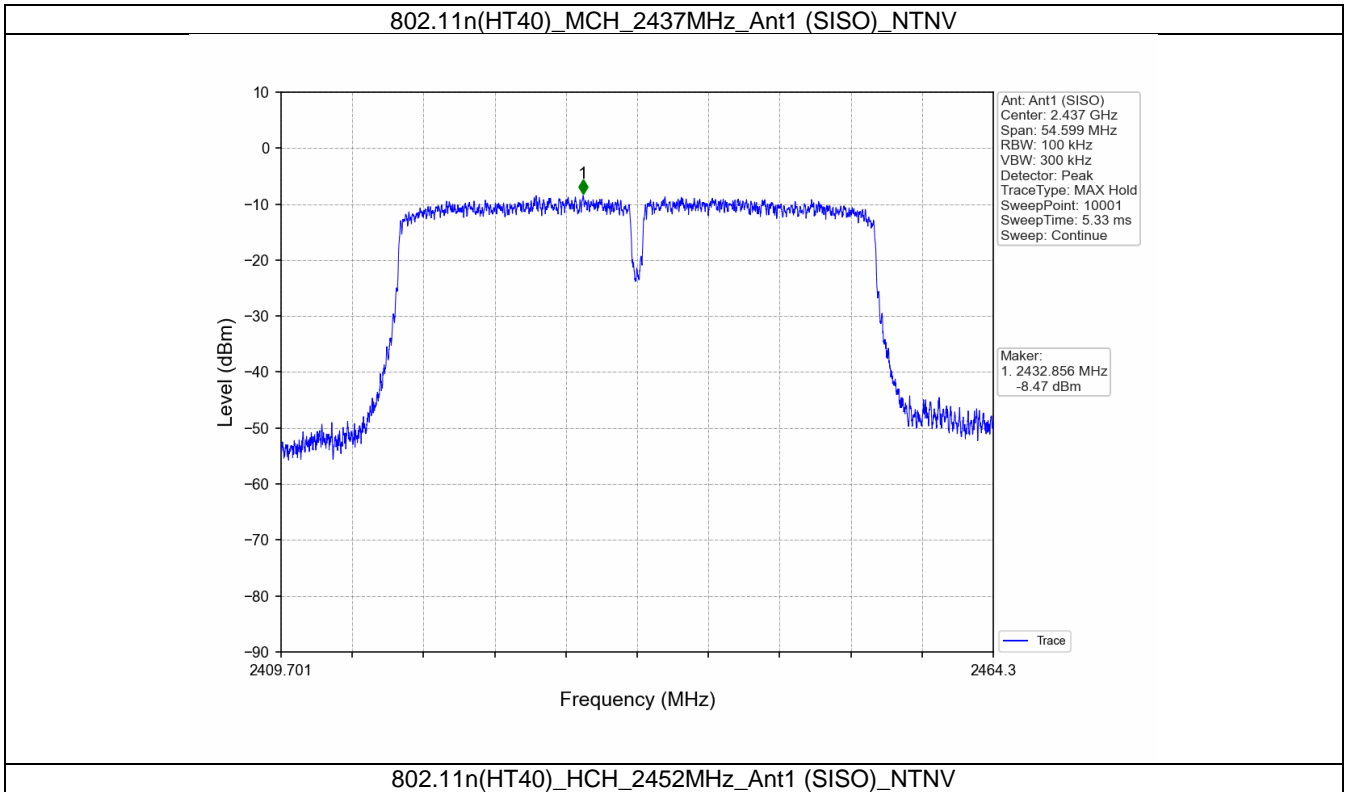


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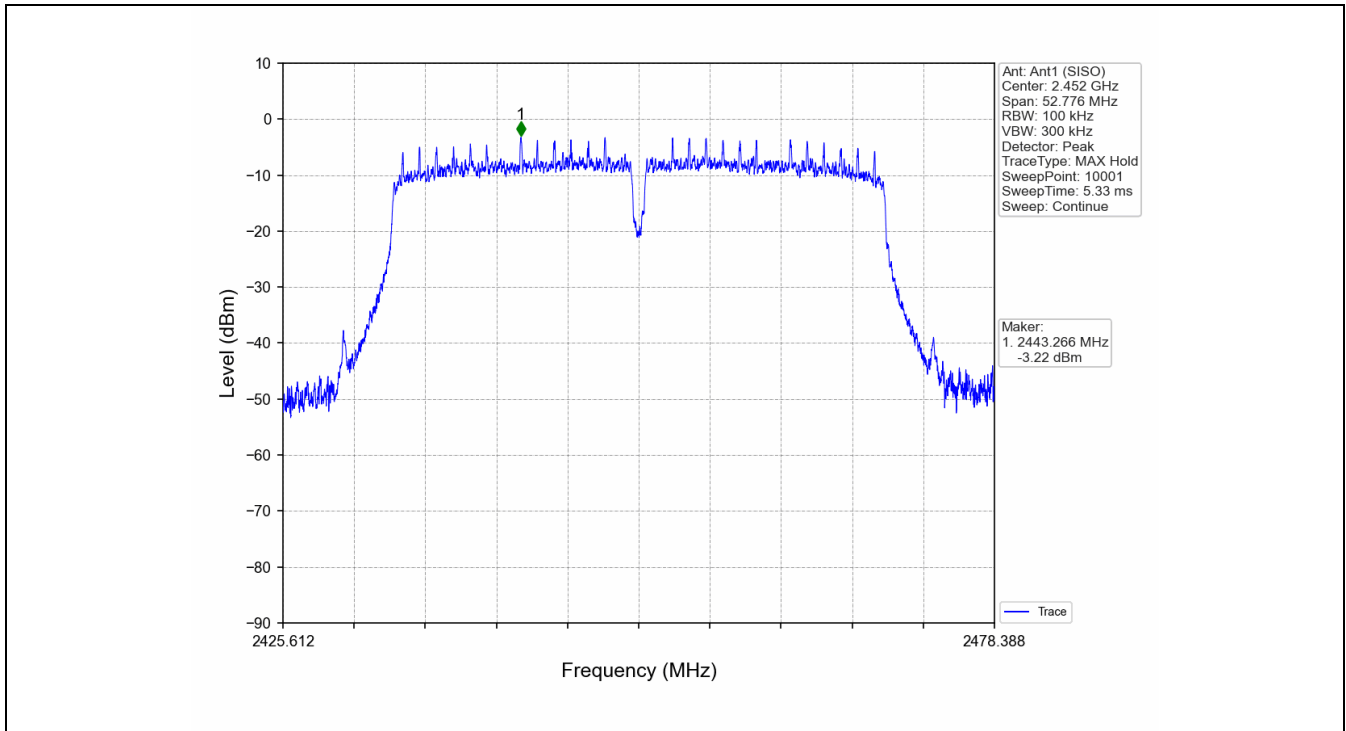


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### 5.2 CSE

#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.75	-15.25	Pass
		2437	1	4.80	-15.20	Pass
		2462	1	4.94	-15.06	Pass
802.11g	SISO	2412	1	-0.55	-20.55	Pass
		2437	1	-1.51	-21.51	Pass
		2462	1	-1.32	-21.32	Pass
802.11n (HT20)	SISO	2412	1	-0.15	-20.15	Pass
		2437	1	-0.57	-20.57	Pass
		2462	1	5.52	-14.48	Pass
802.11n (HT40)	SISO	2422	1	-7.63	-27.63	Pass
		2437	1	-8.47	-28.47	Pass
		2452	1	-2.13	-22.13	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

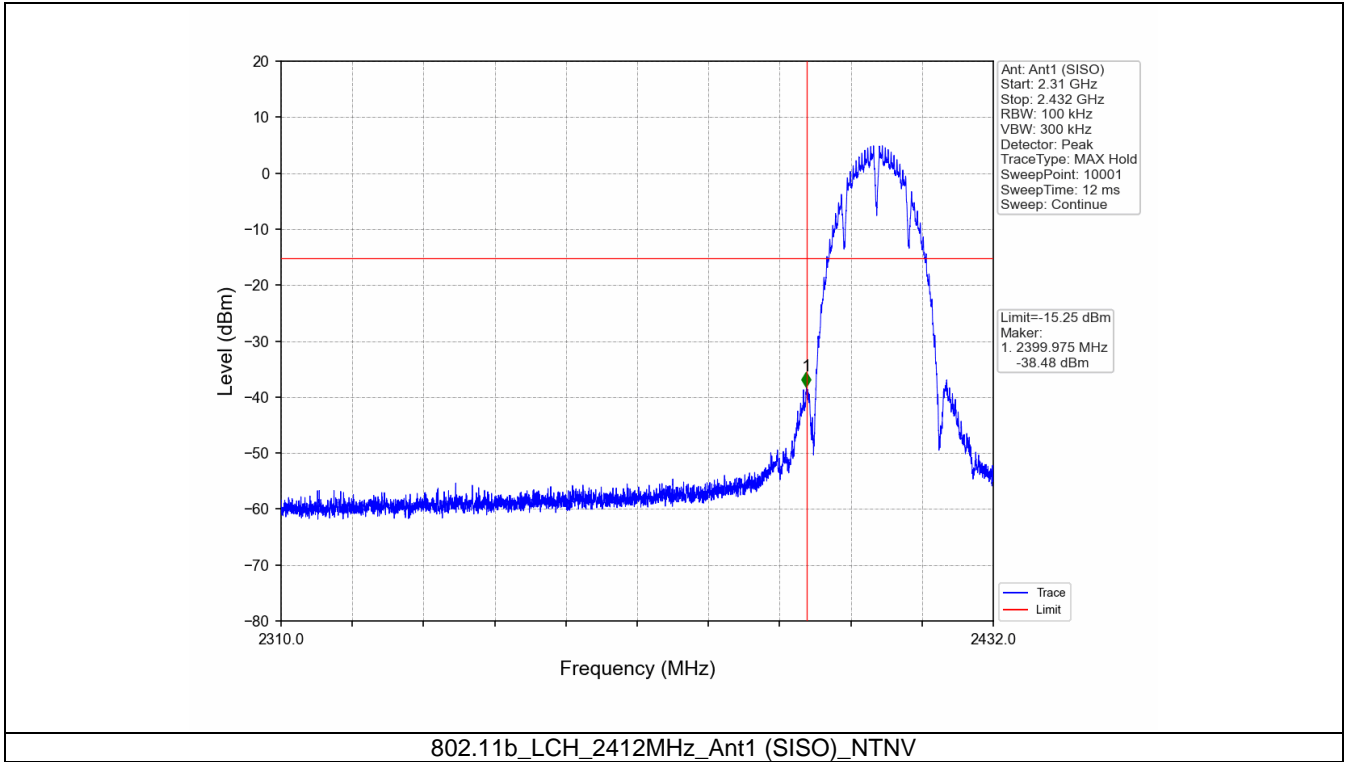
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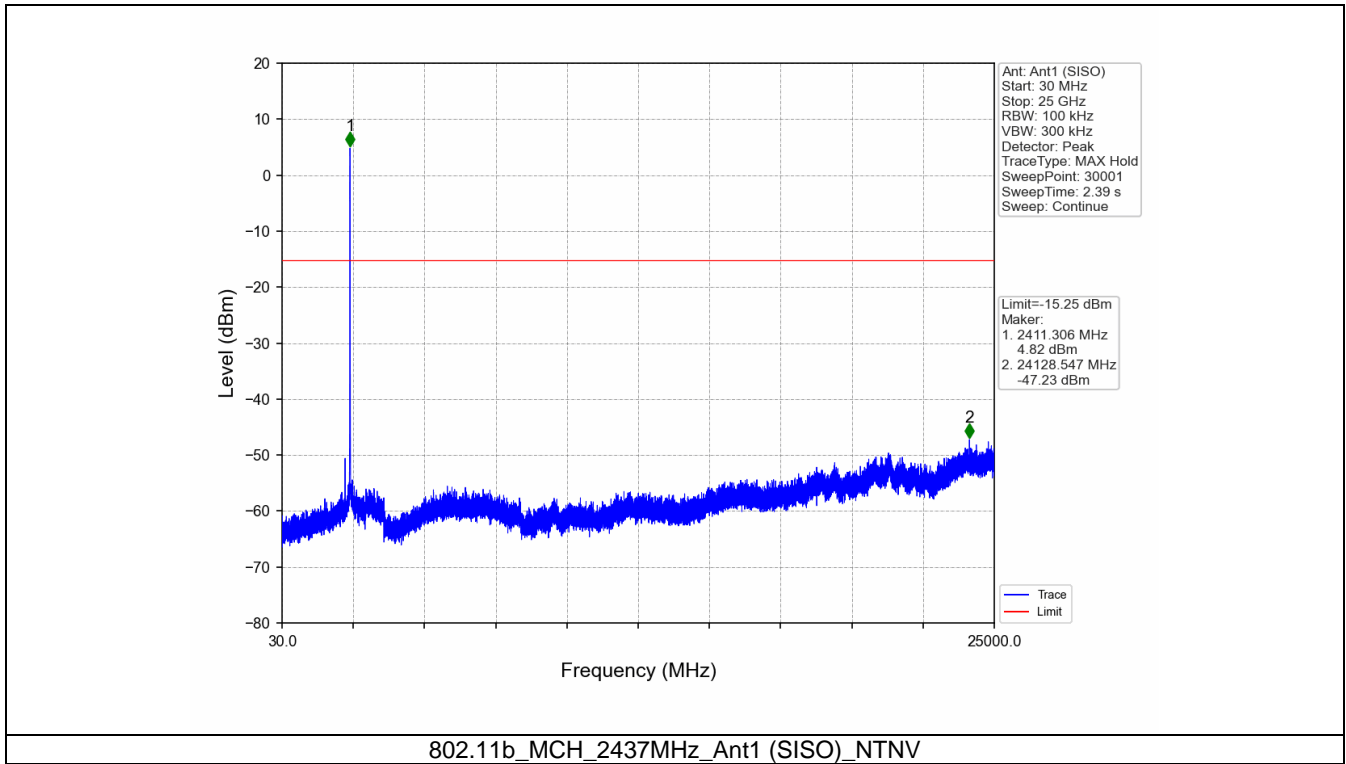


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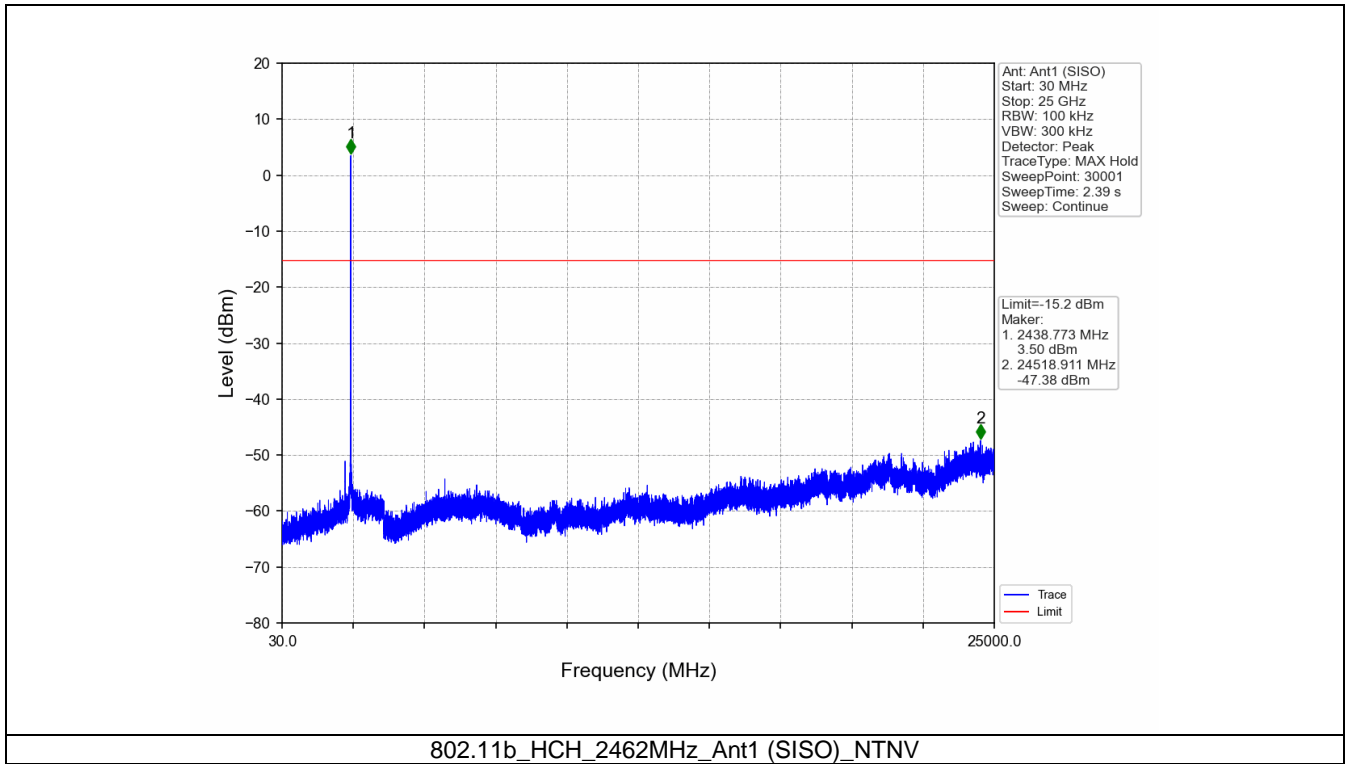
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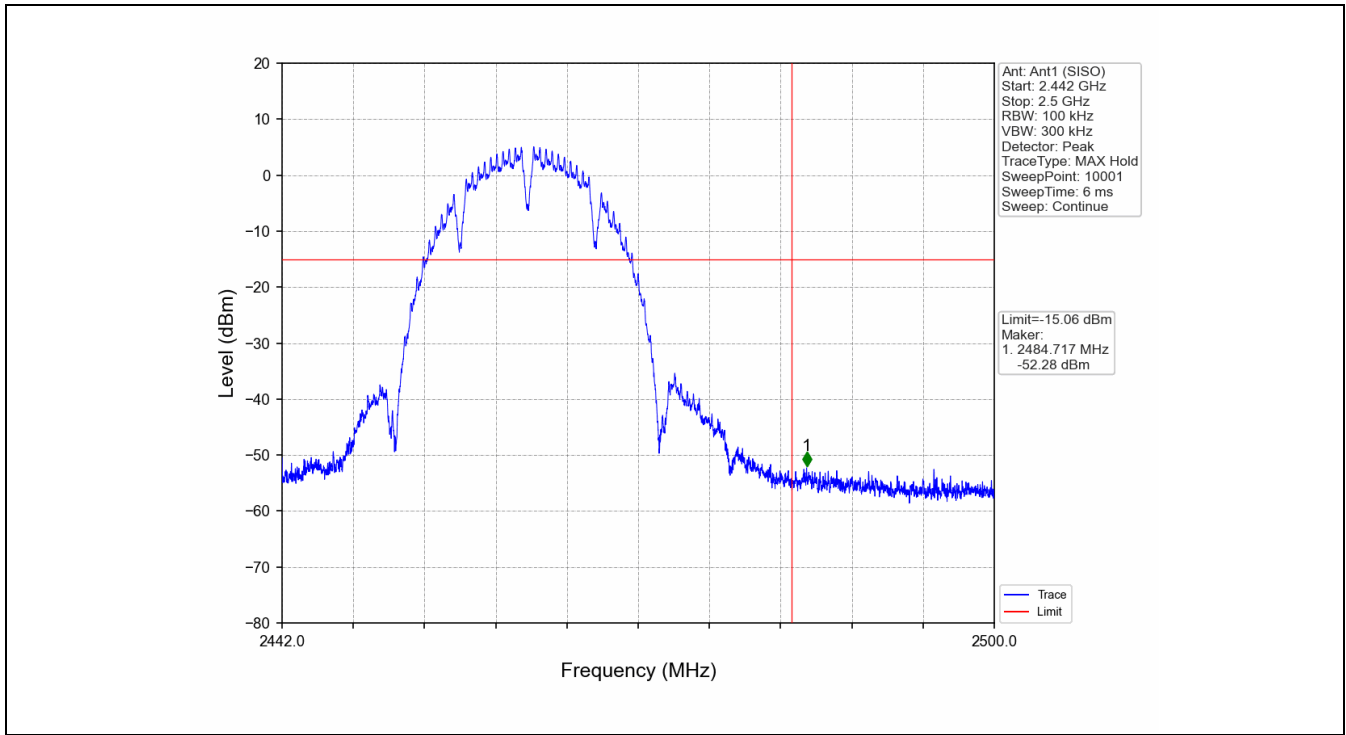
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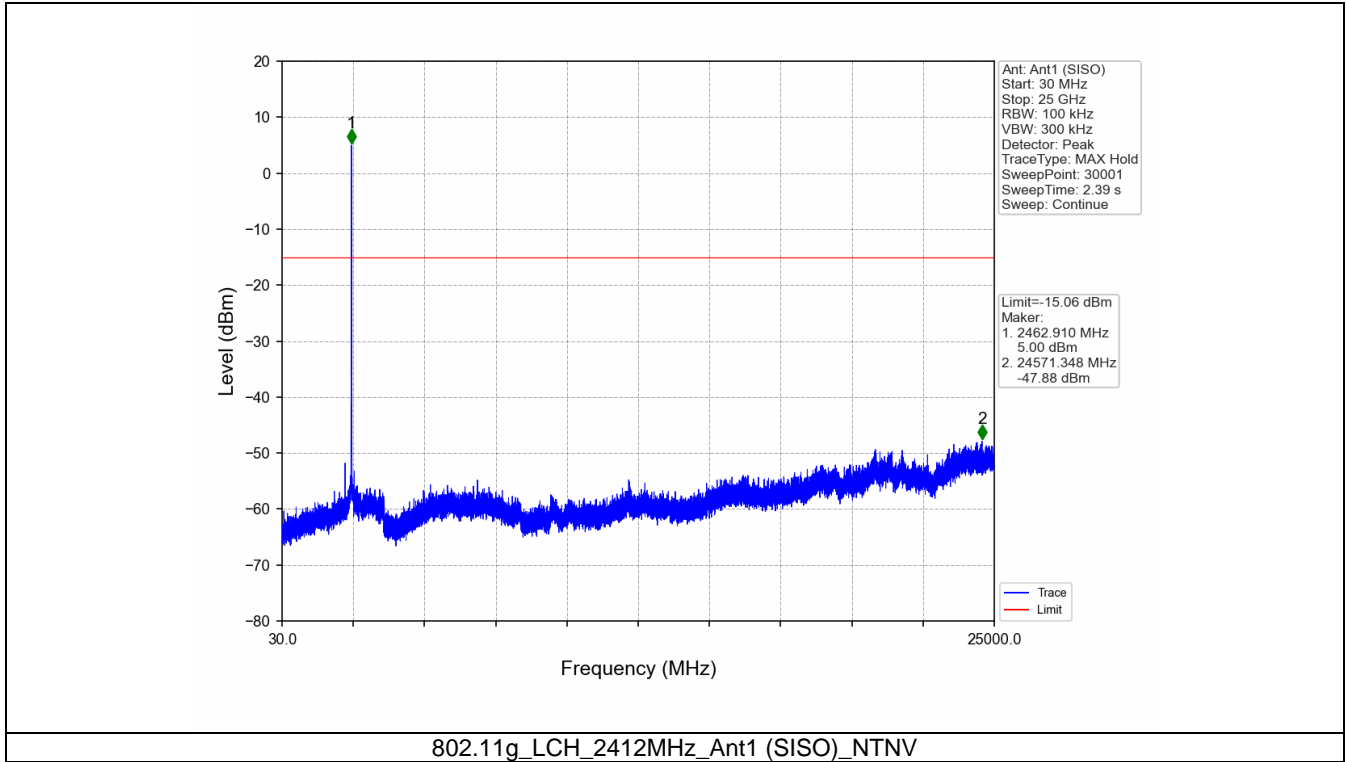
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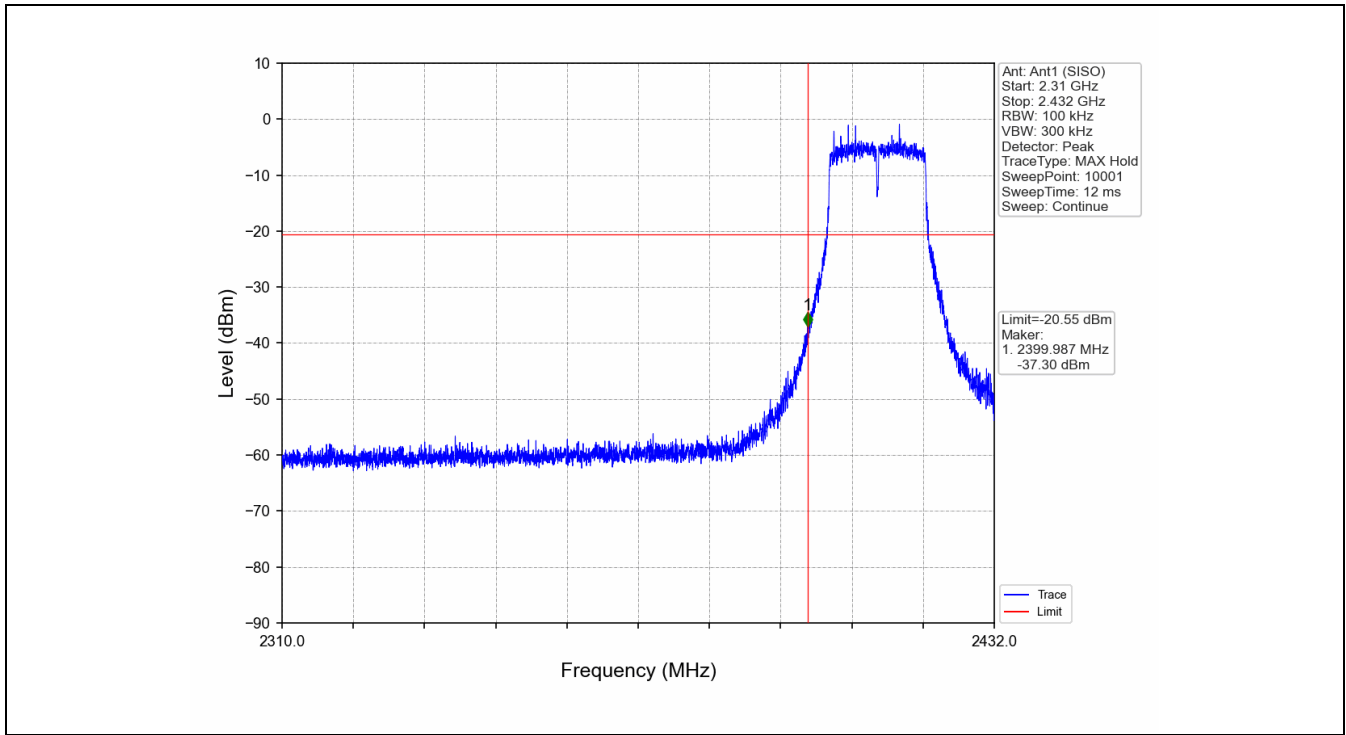


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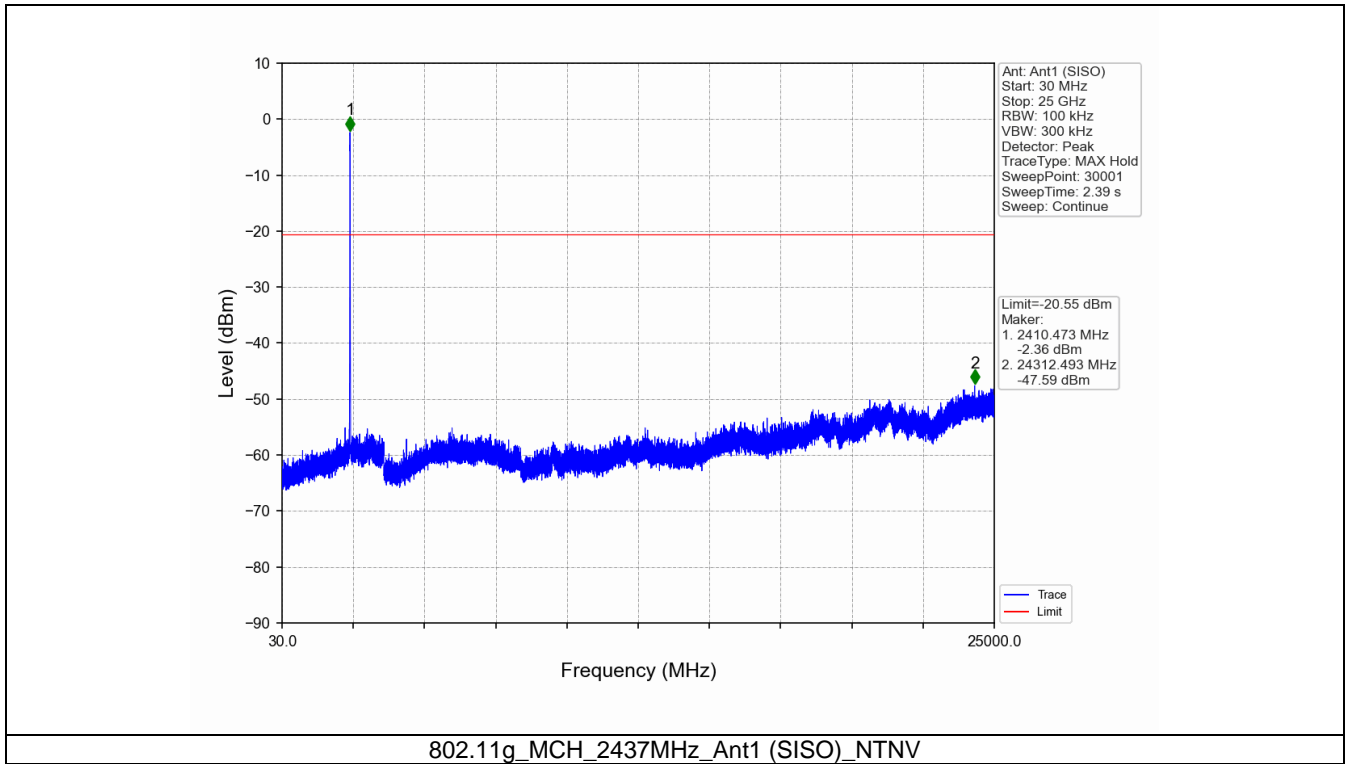


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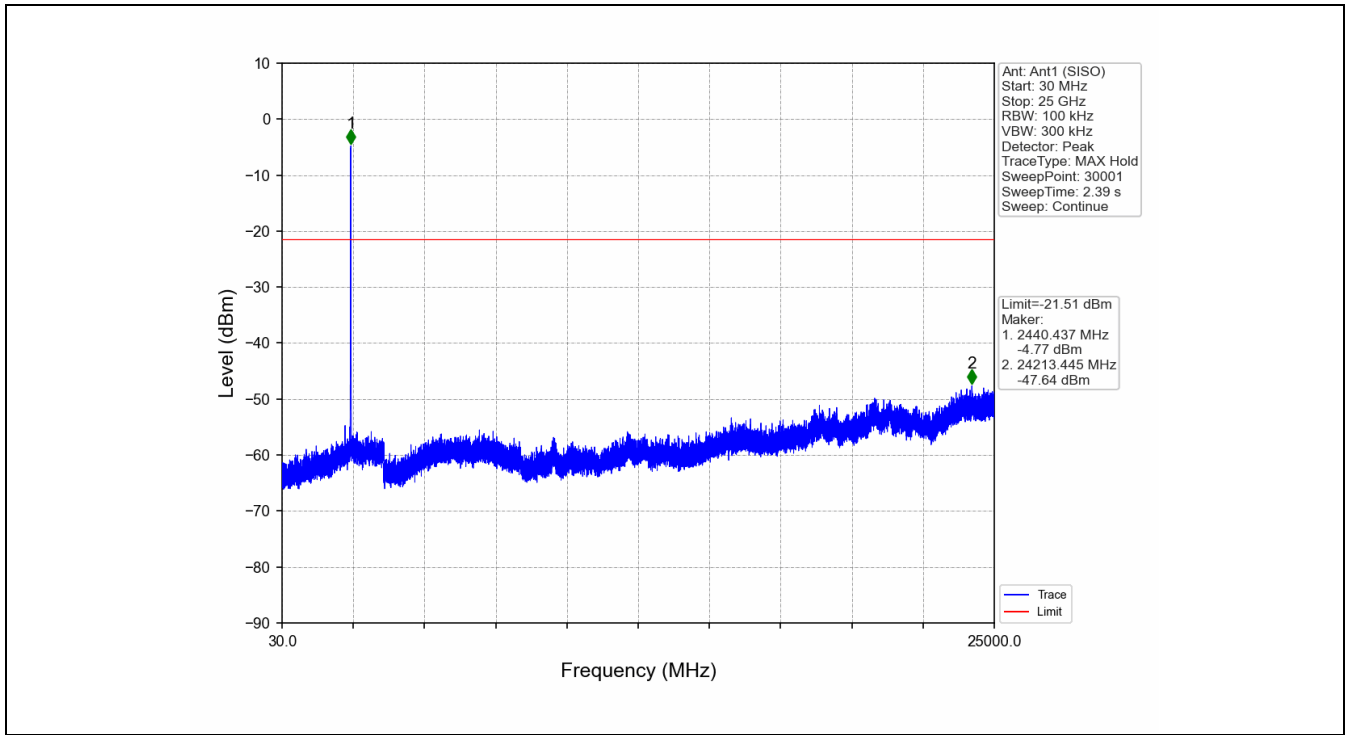
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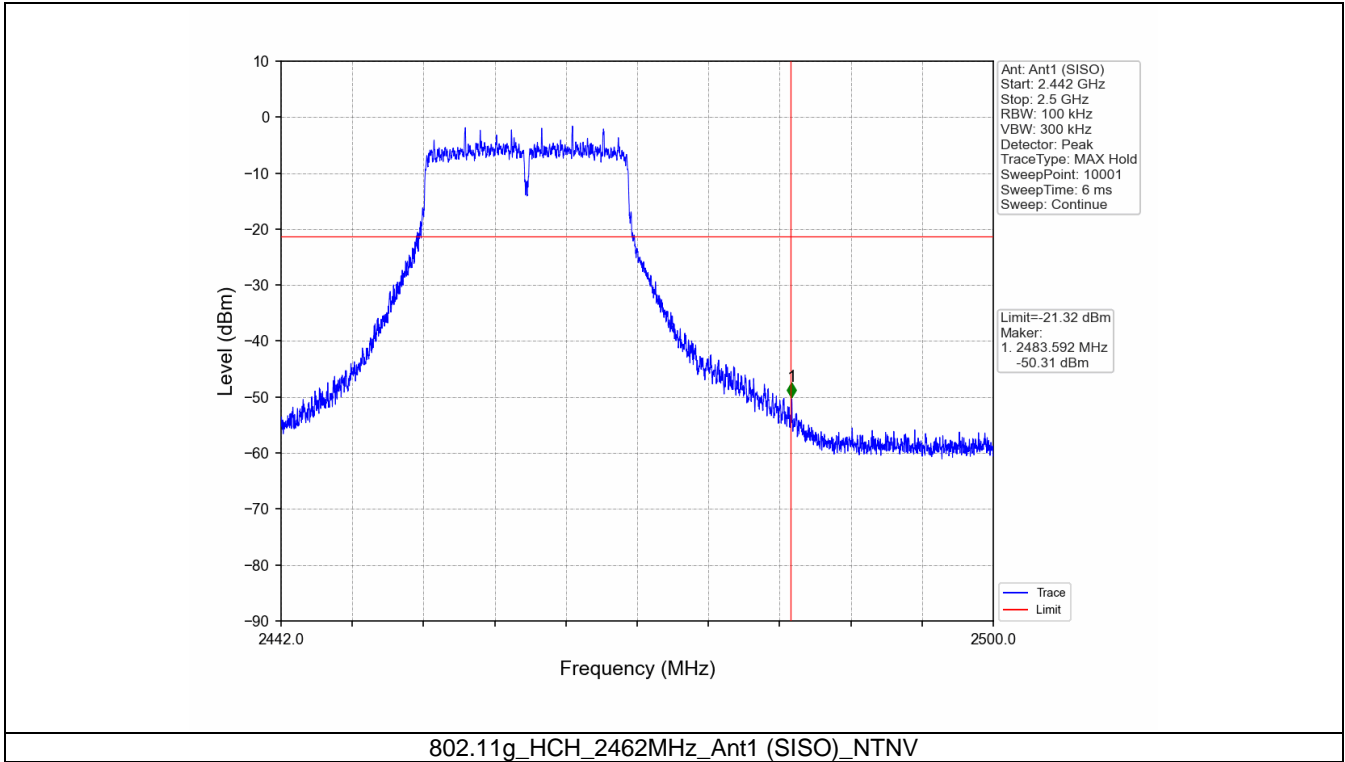


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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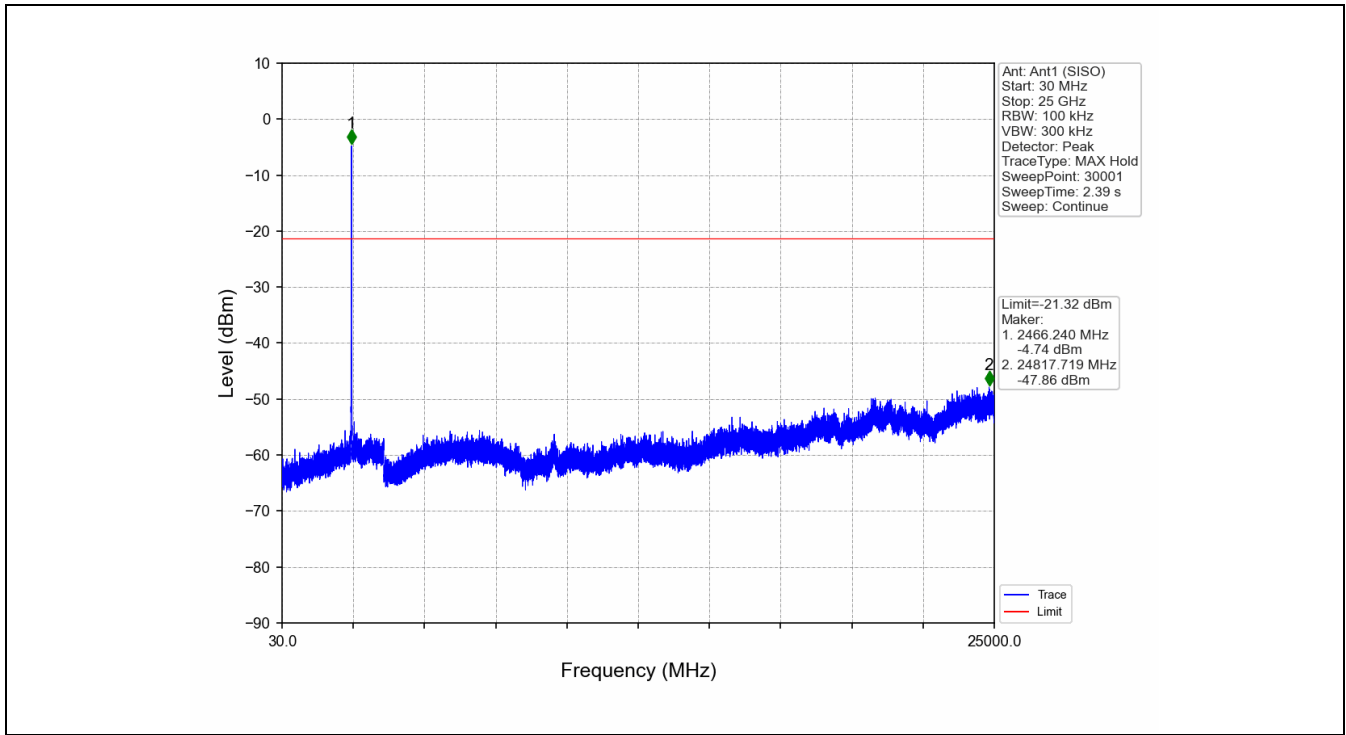


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

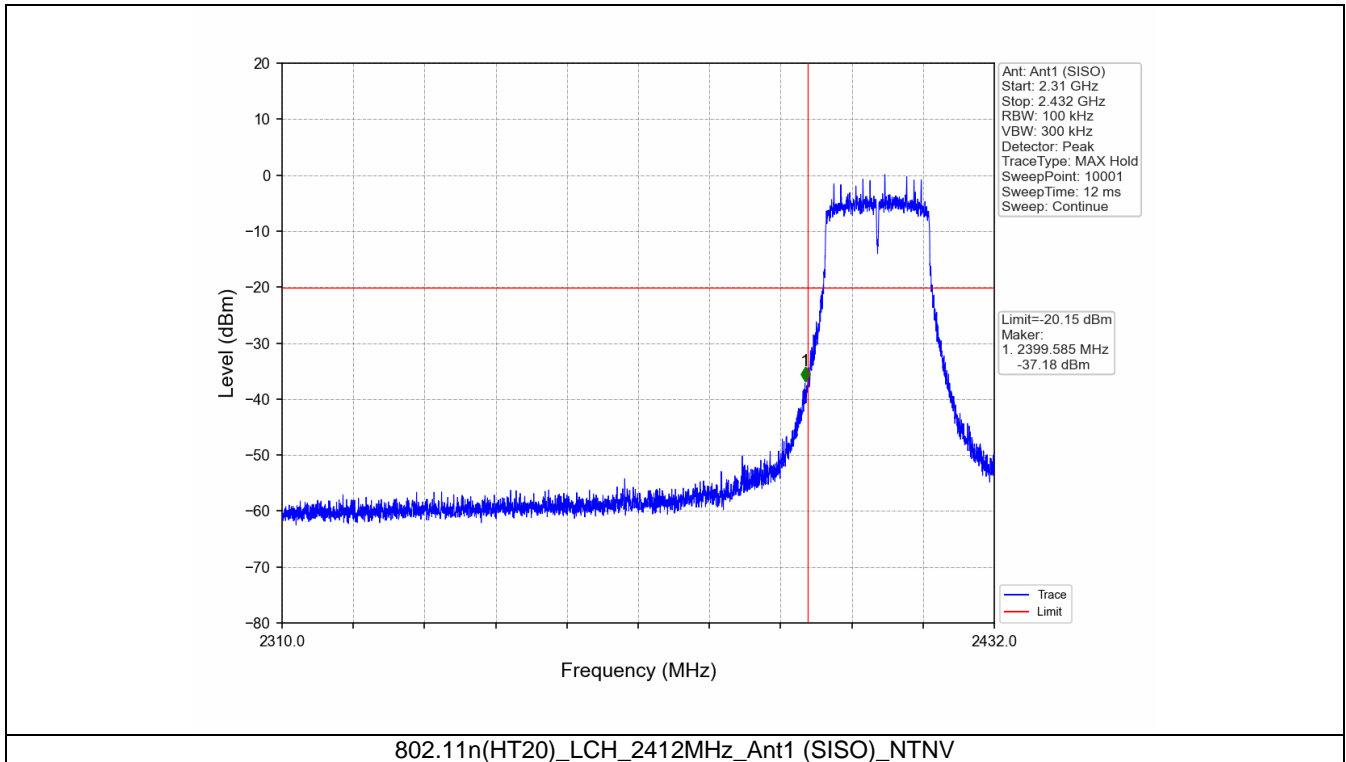


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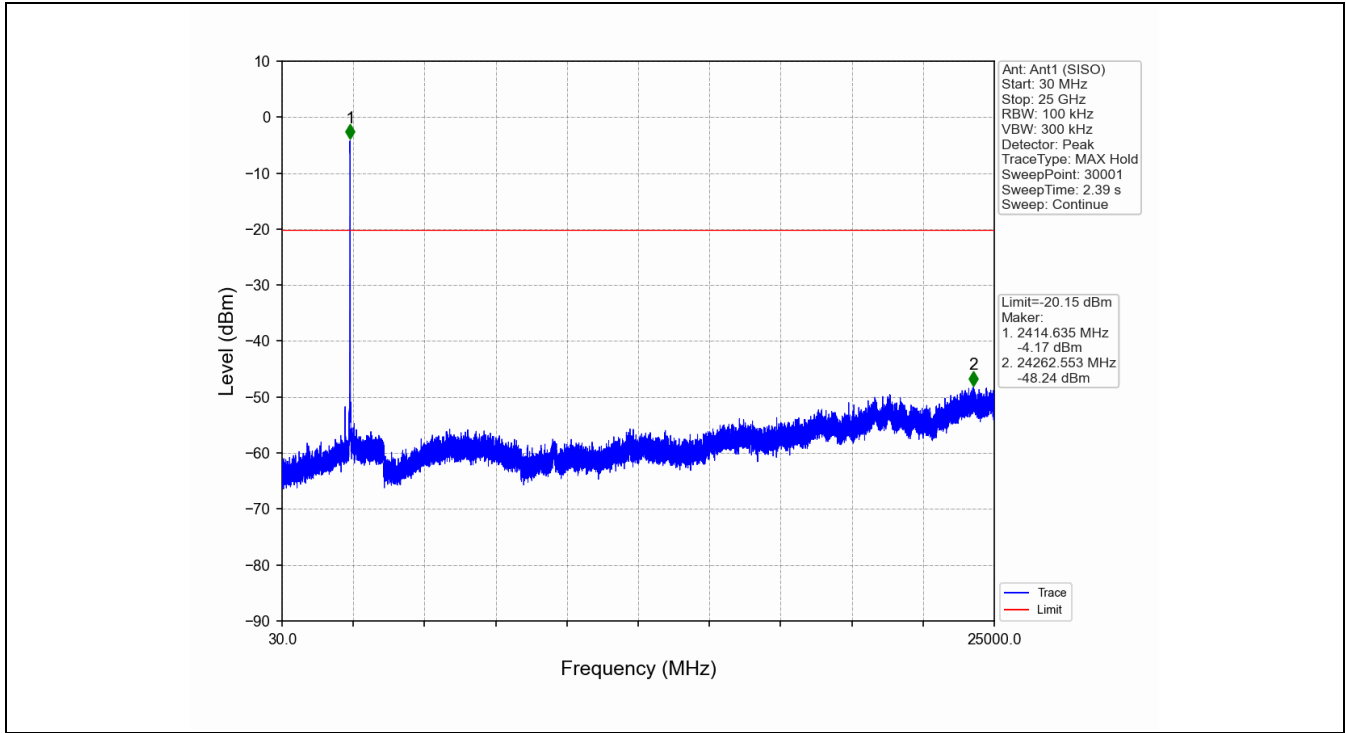


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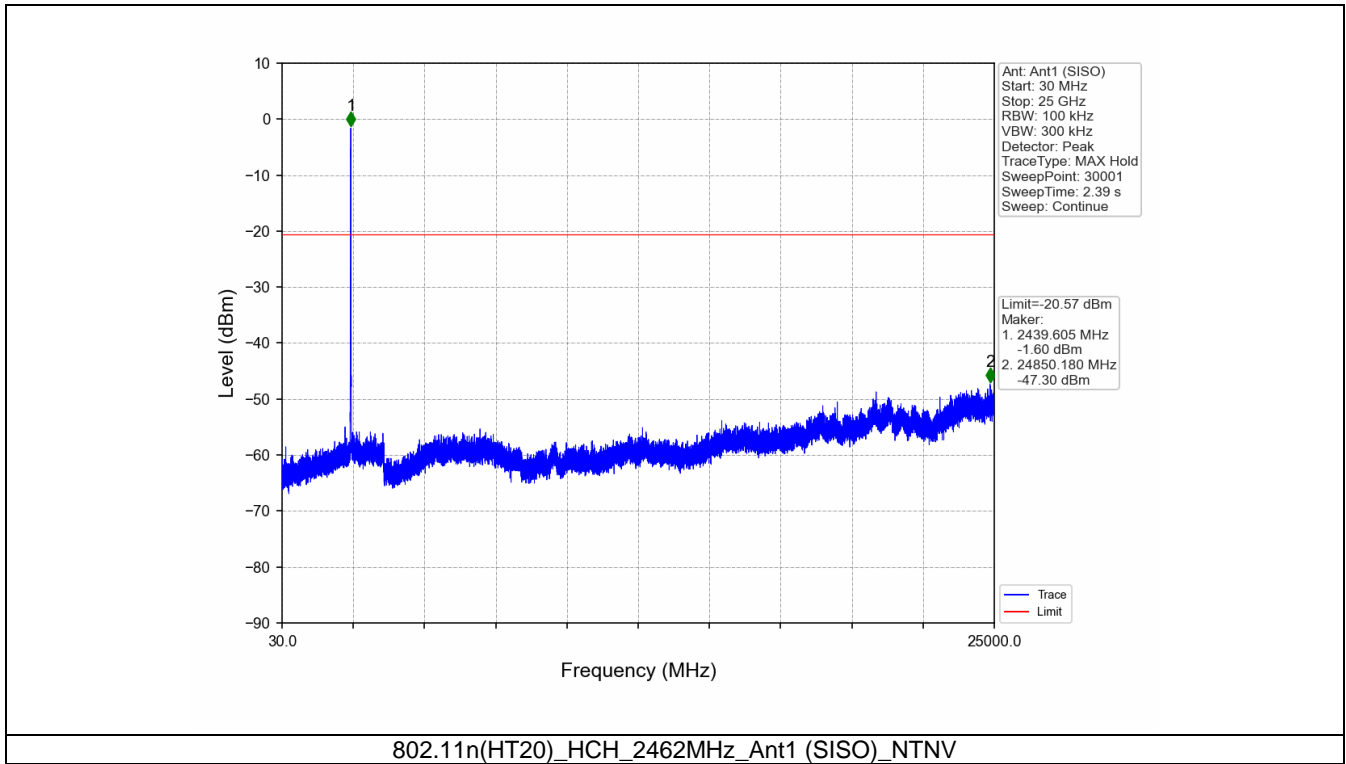


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



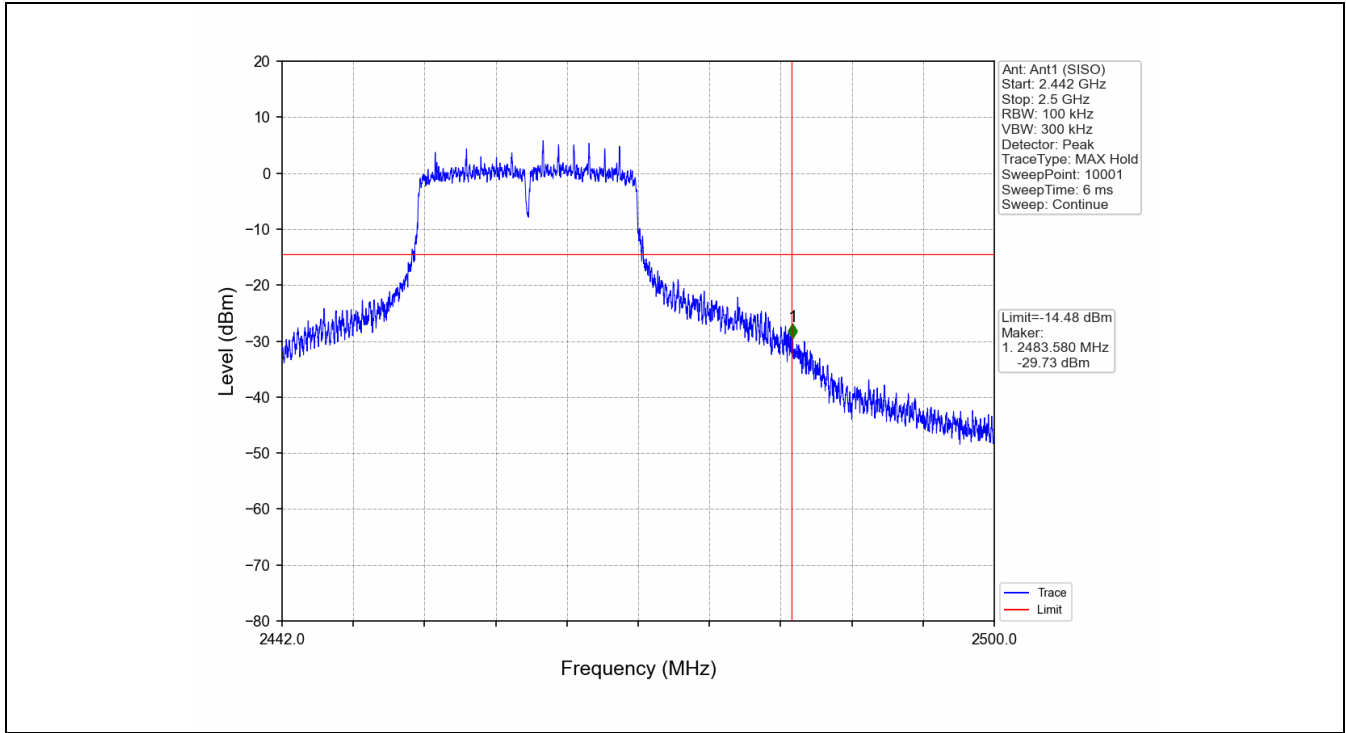
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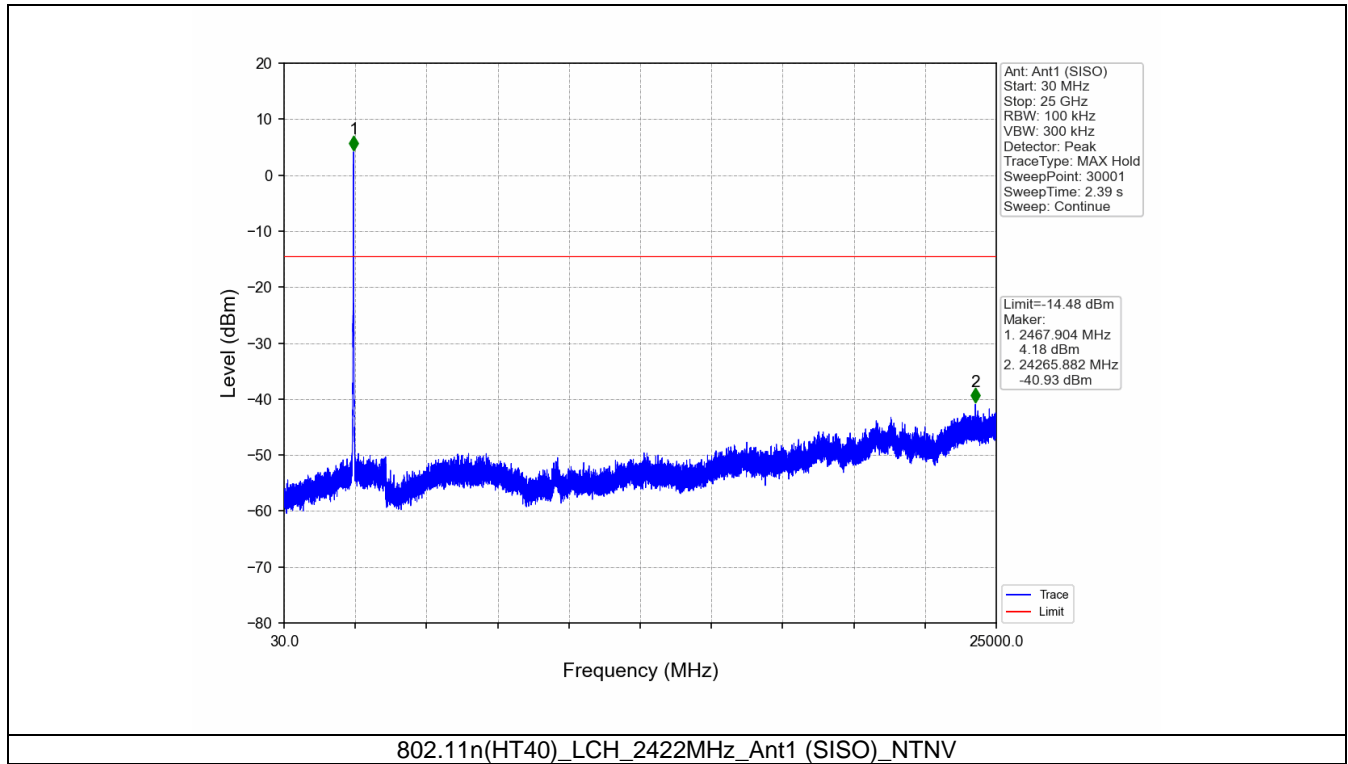


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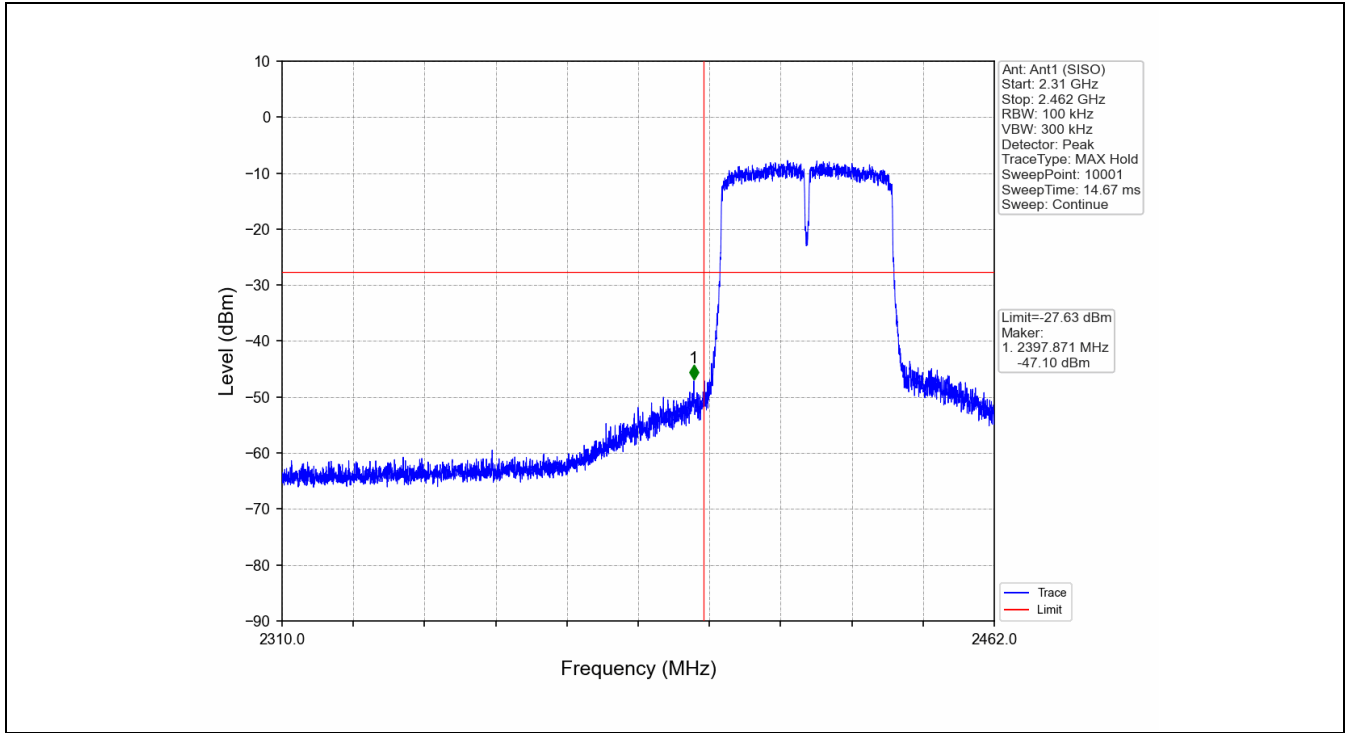
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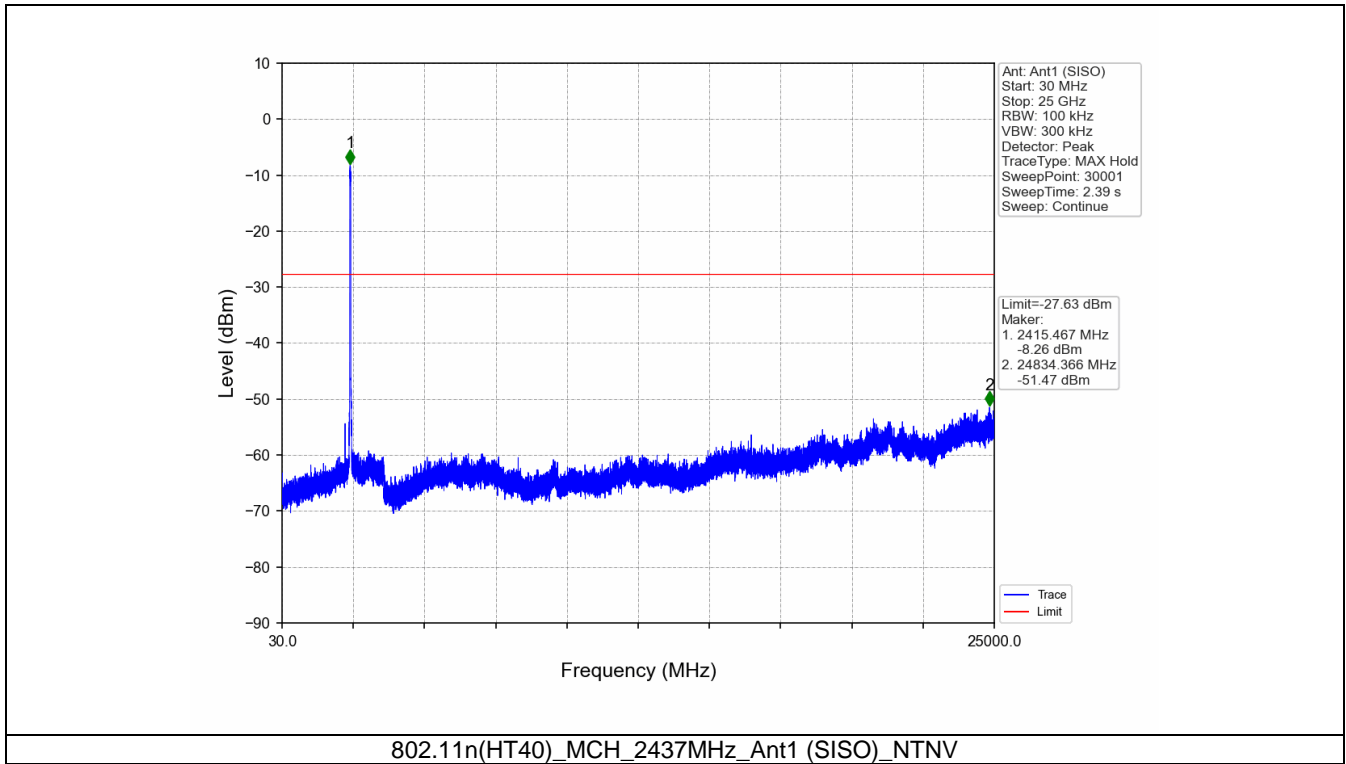
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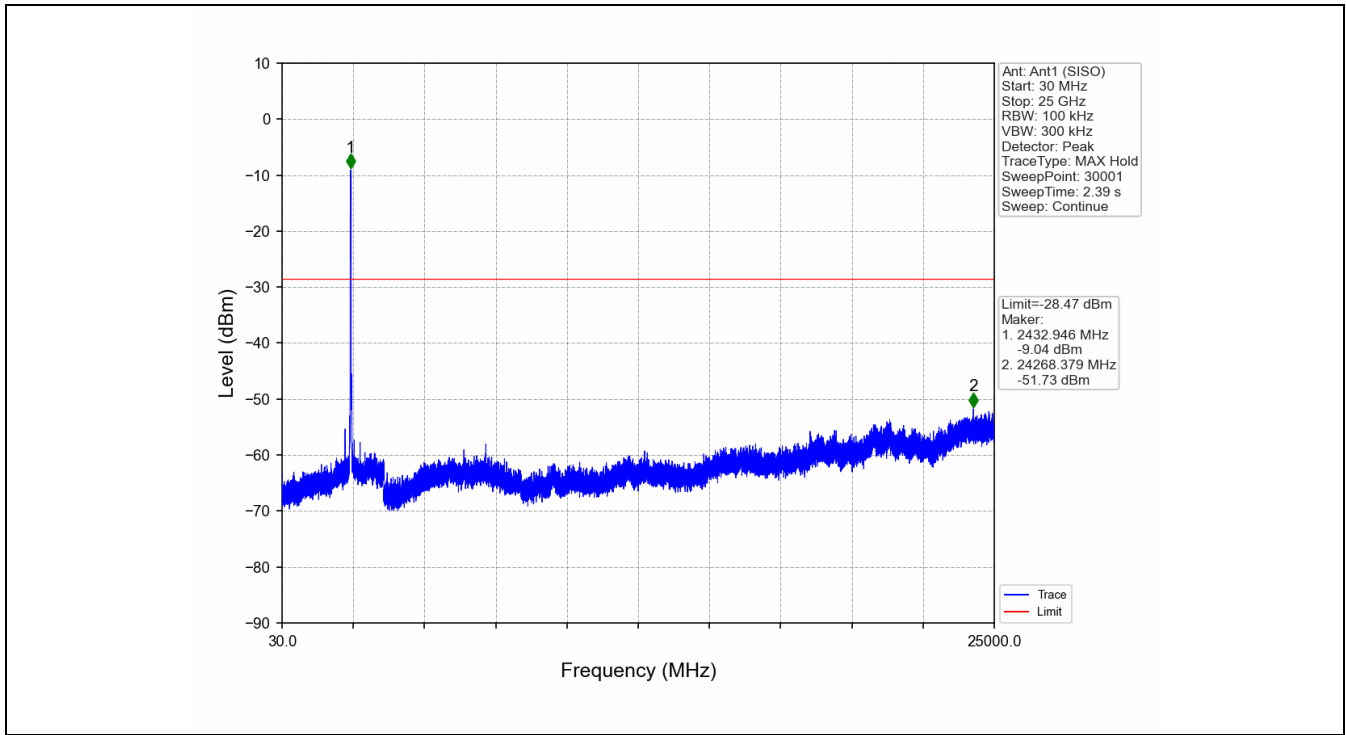
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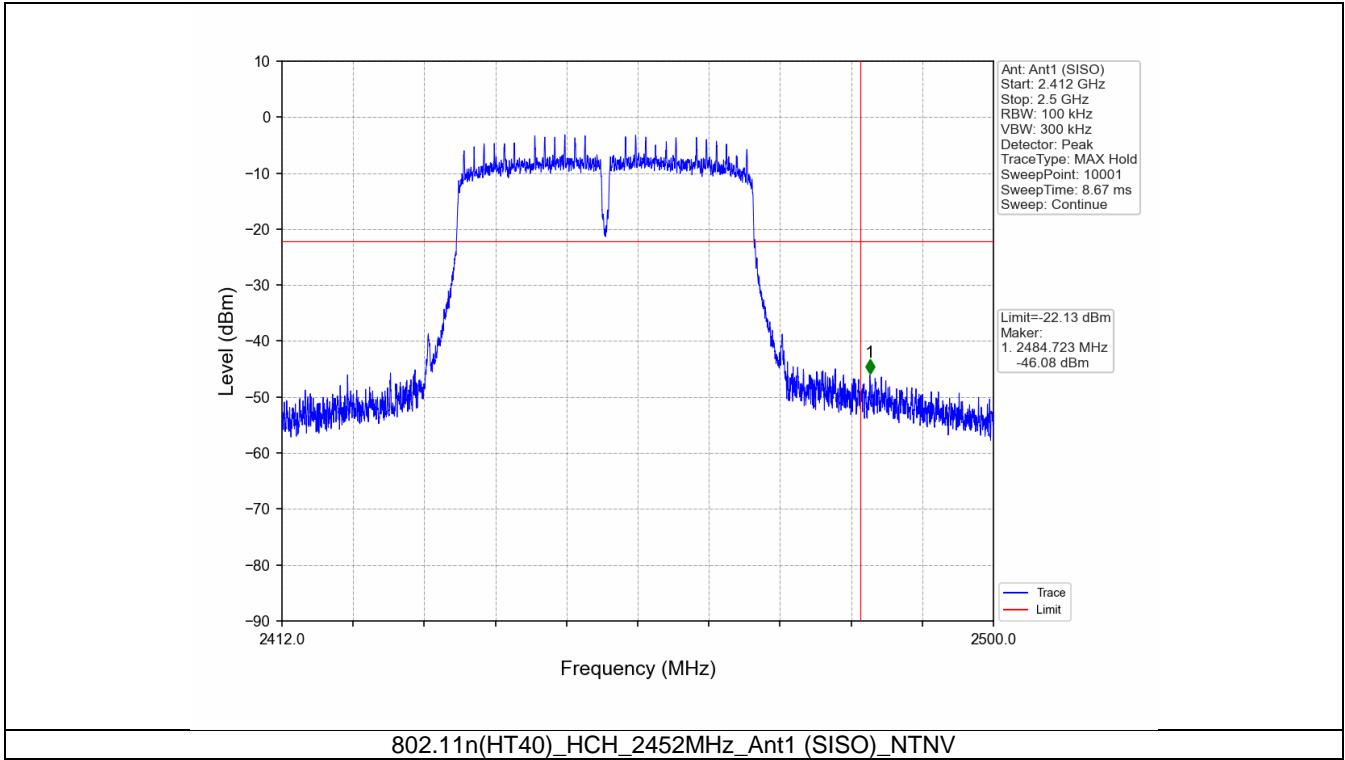


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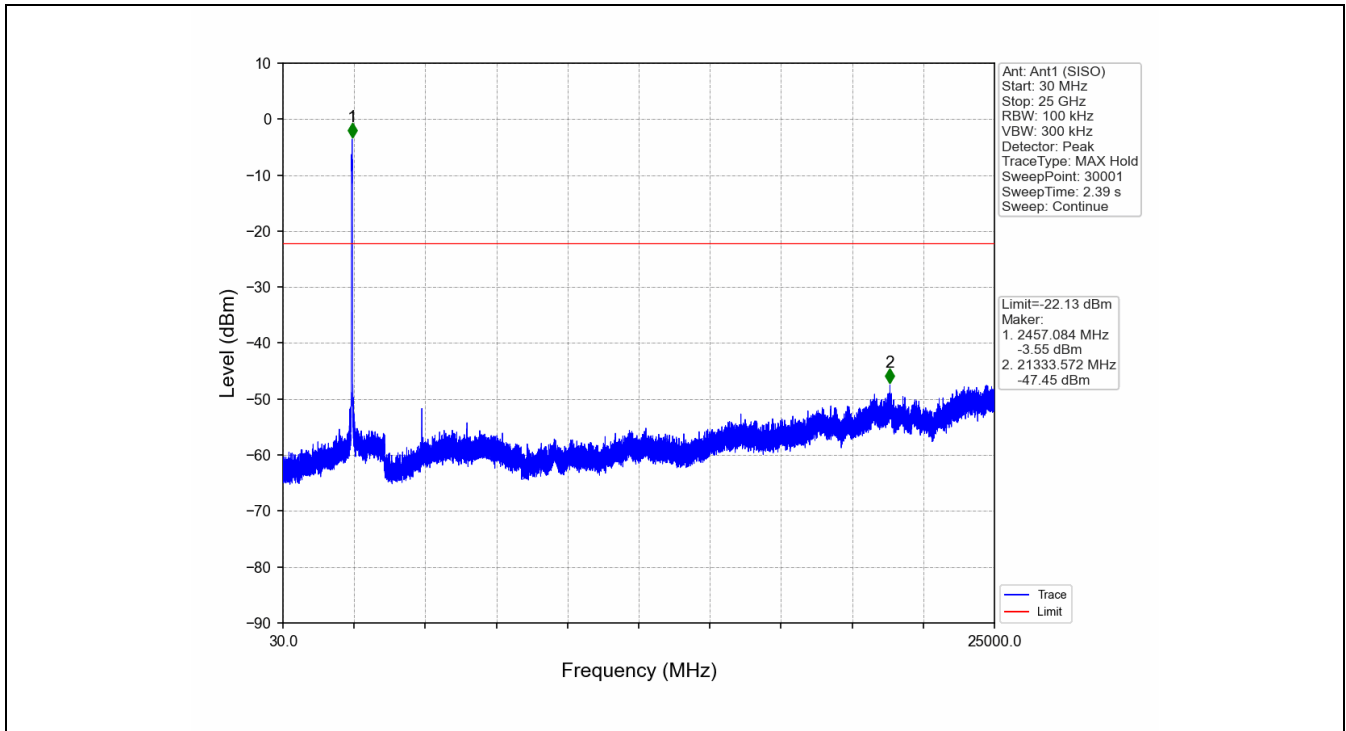
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