

## Appendix C for KSCR220300041303

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.610	8.706	98.90	0.05	0.04
		2437	8.610	8.707	98.89	0.05	0.04
		2462	8.607	8.704	98.89	0.05	0.04
802.11g	SISO	2412	1.429	1.531	93.34	0.30	0.03
		2437	1.429	1.531	93.34	0.30	0.03
		2462	1.429	1.532	93.28	0.30	0.06
802.11n (HT20)	SISO	2412	1.336	1.439	92.84	0.32	0.03
		2437	1.336	1.438	92.91	0.32	0.03
		2462	1.338	1.439	92.98	0.32	0.03
802.11n (HT40)	SISO	2422	0.130	0.231	56.28	2.50	0.03
		2437	0.129	0.231	55.84	2.53	0.06
		2452	0.129	0.231	55.84	2.53	0.07



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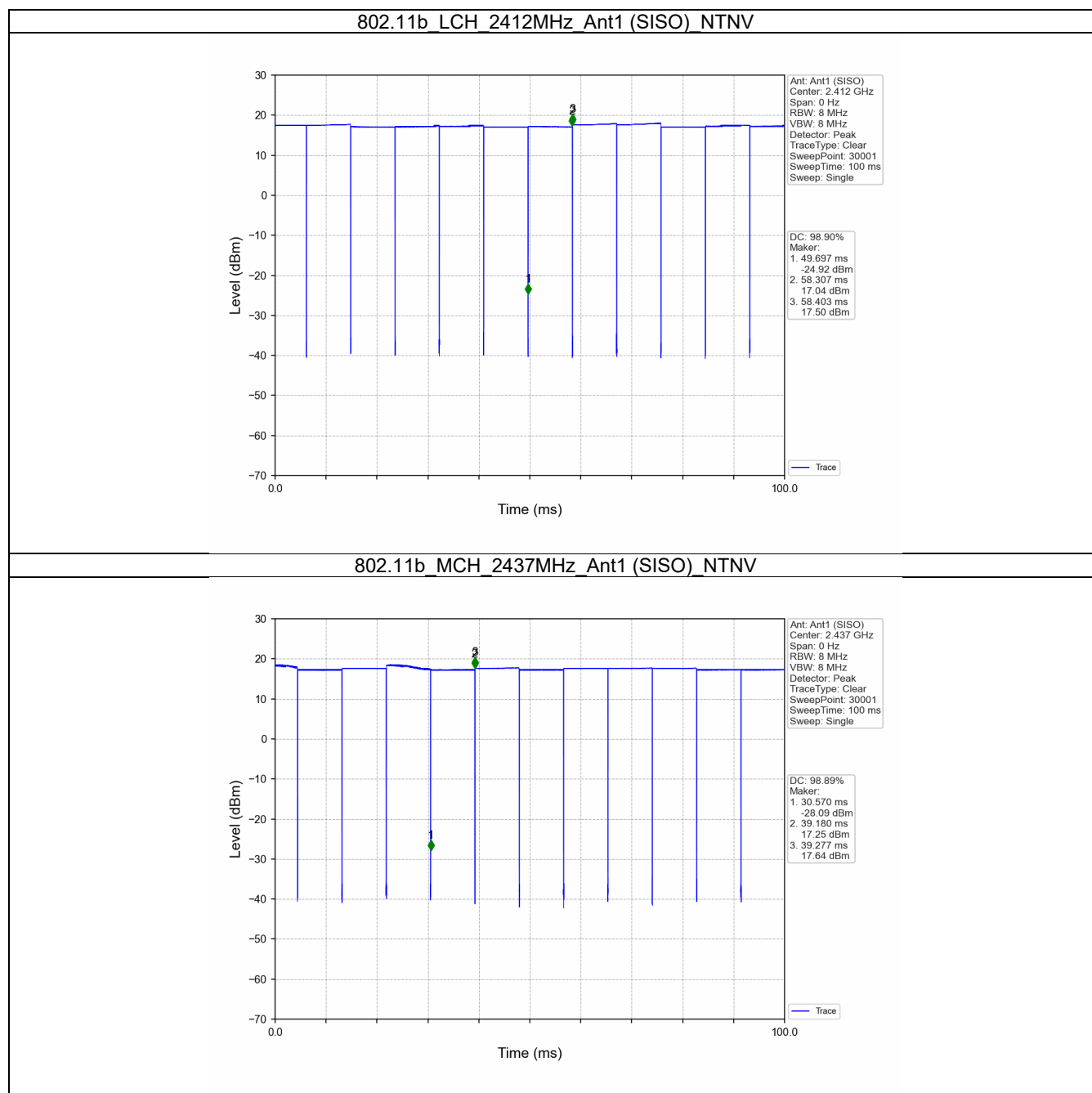
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### 1.1.2 Test Graph



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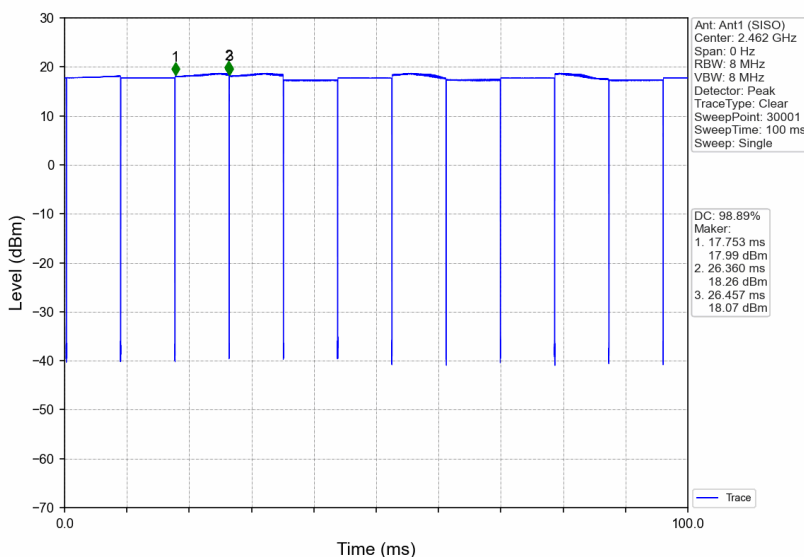
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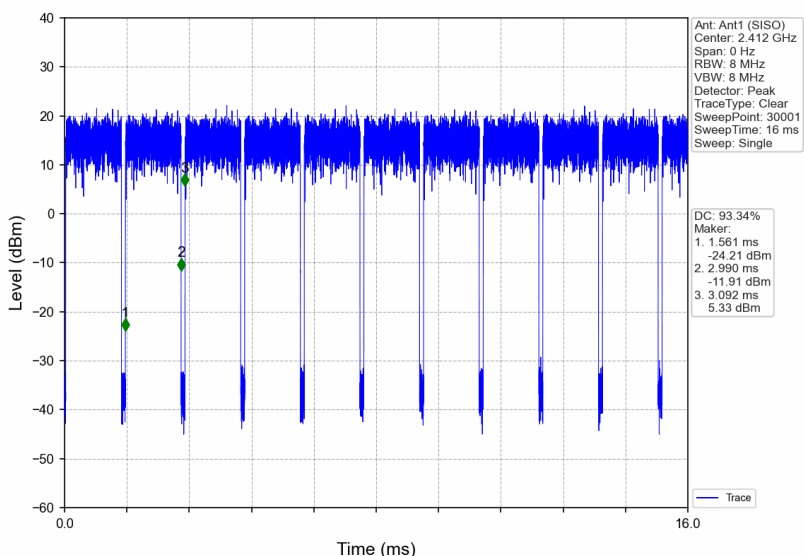
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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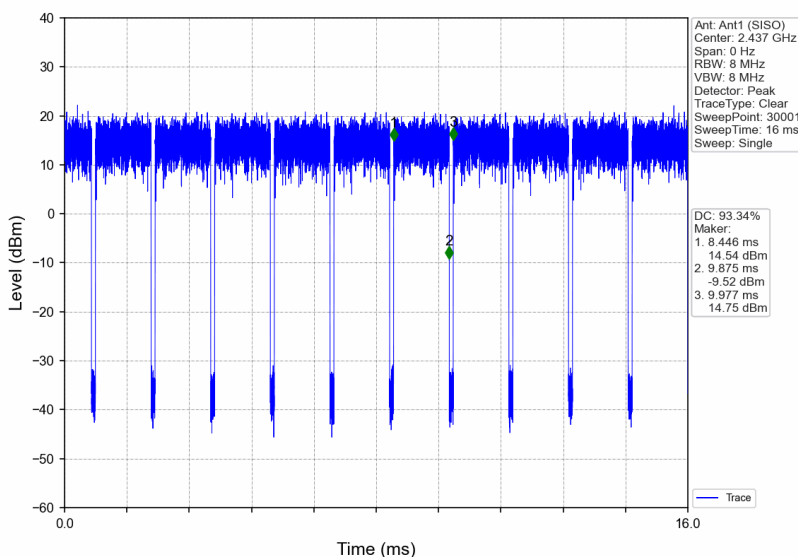
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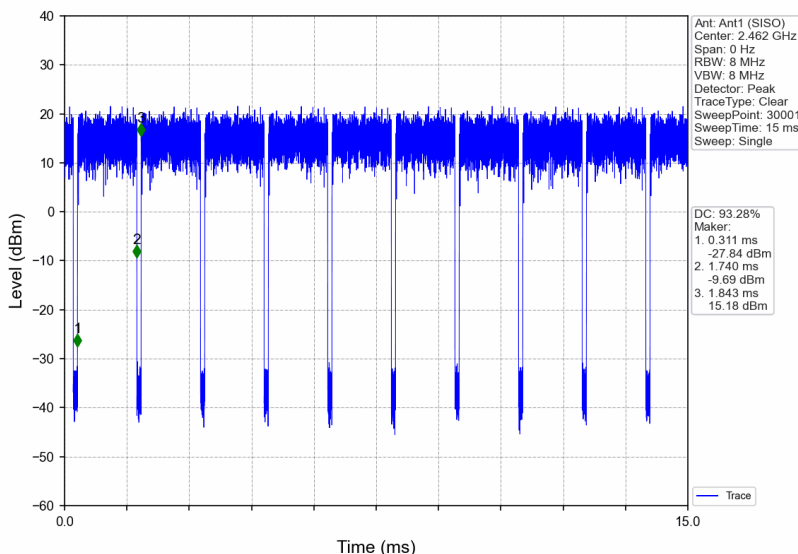
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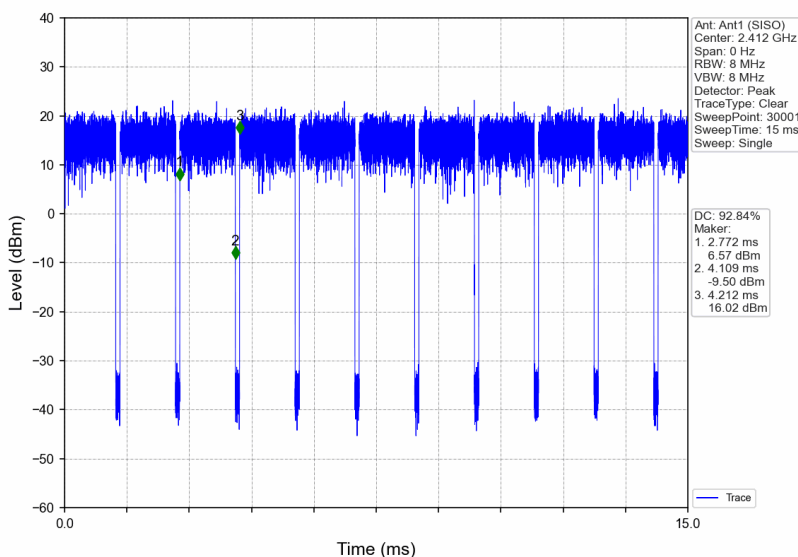
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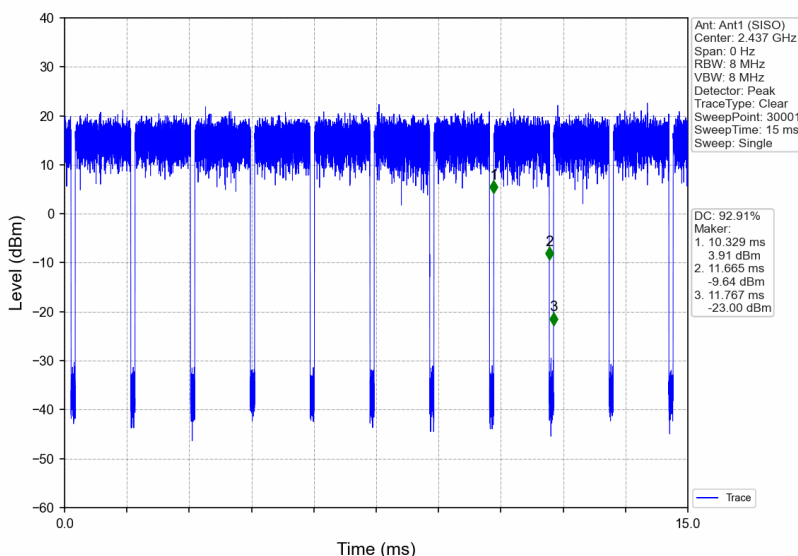
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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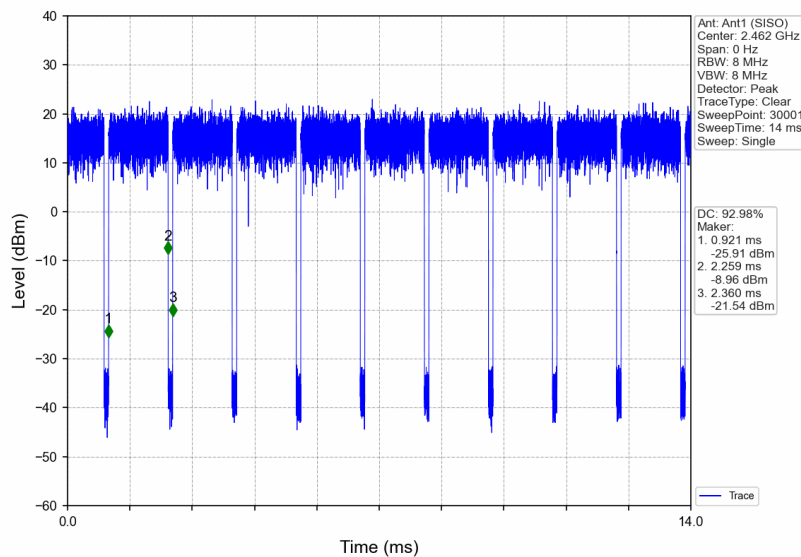
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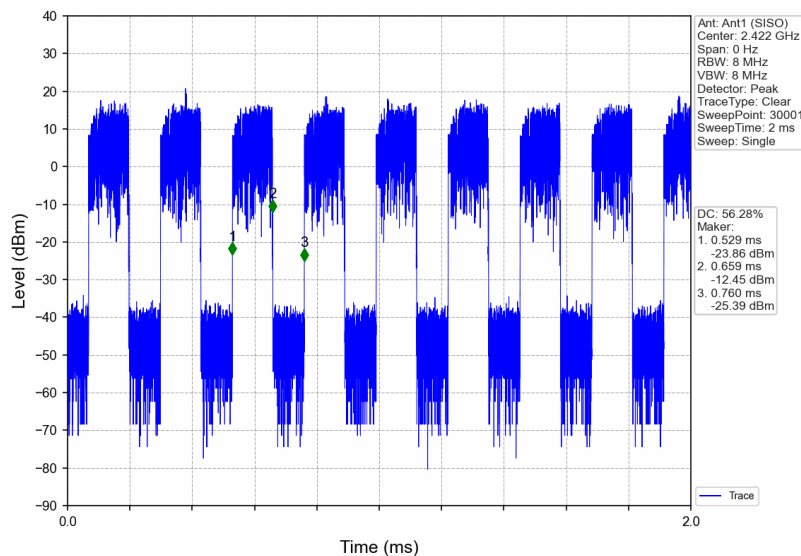
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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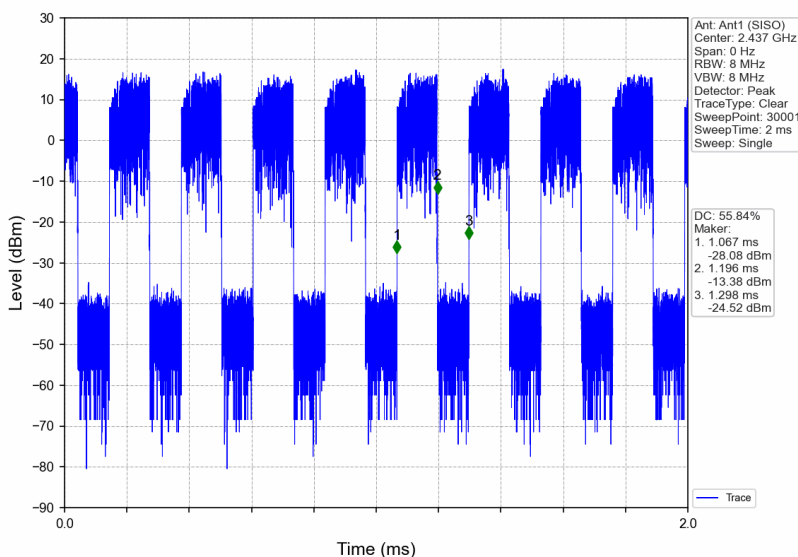
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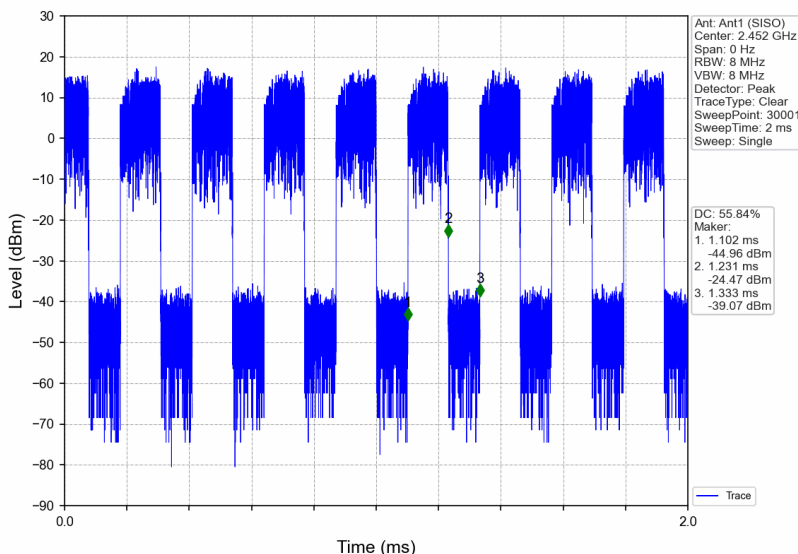
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.443	Pass
		2437	1	11.465	Pass
		2462	1	11.596	Pass
802.11g	SISO	2412	1	17.683	Pass
		2437	1	17.956	Pass
		2462	1	17.639	Pass
802.11n (HT20)	SISO	2412	1	18.576	Pass
		2437	1	18.817	Pass
		2462	1	18.523	Pass
802.11n (HT40)	SISO	2422	1	36.473	Pass
		2437	1	36.606	Pass
		2452	1	36.632	Pass



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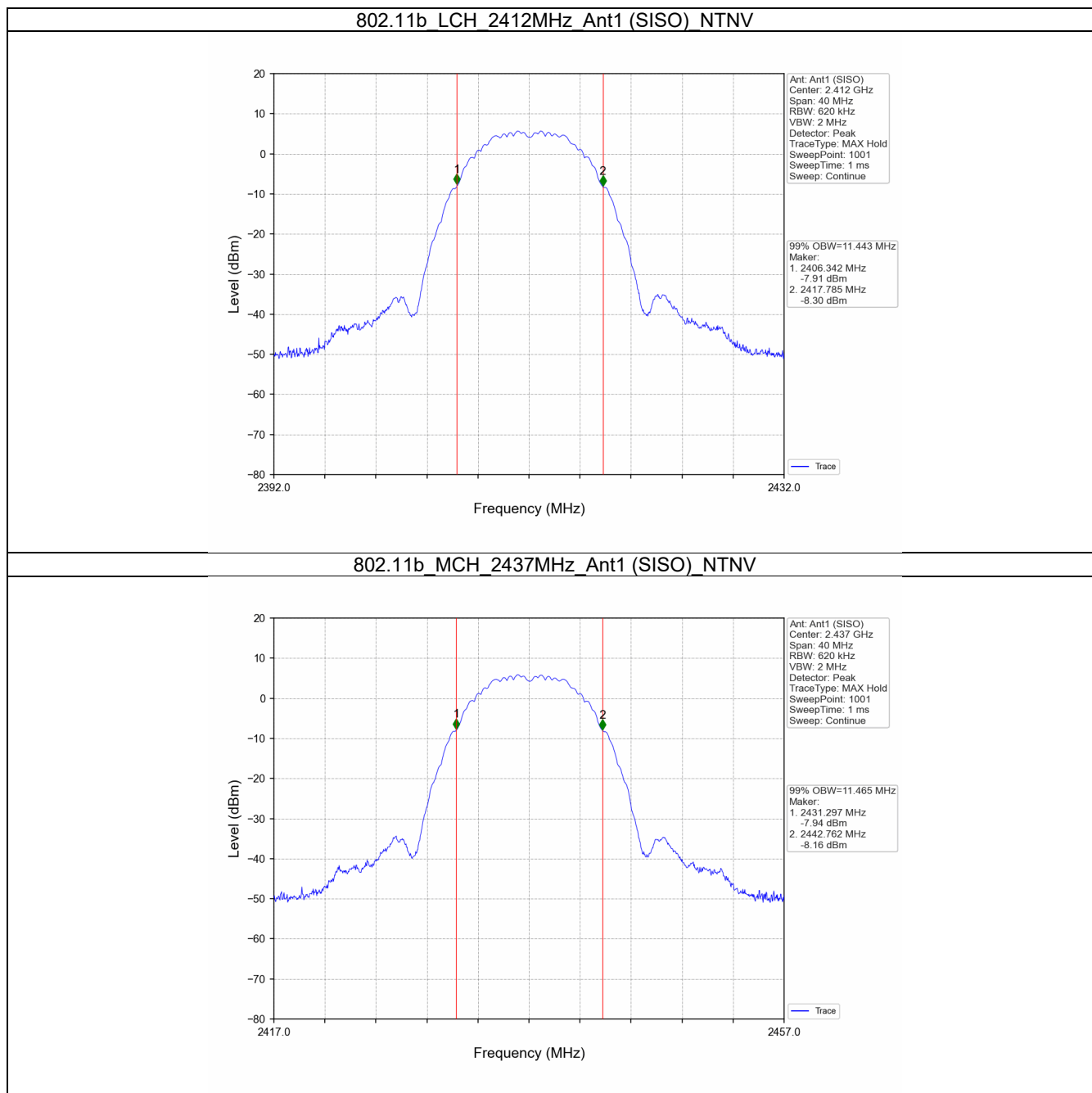
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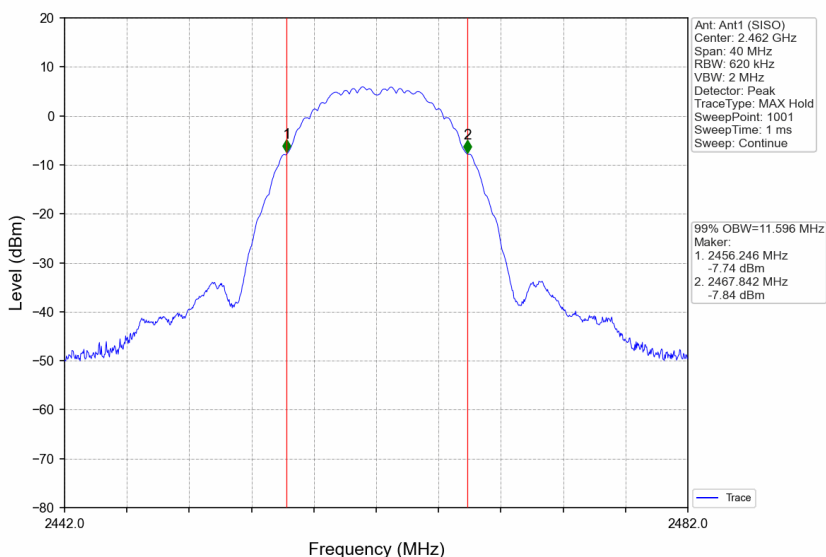
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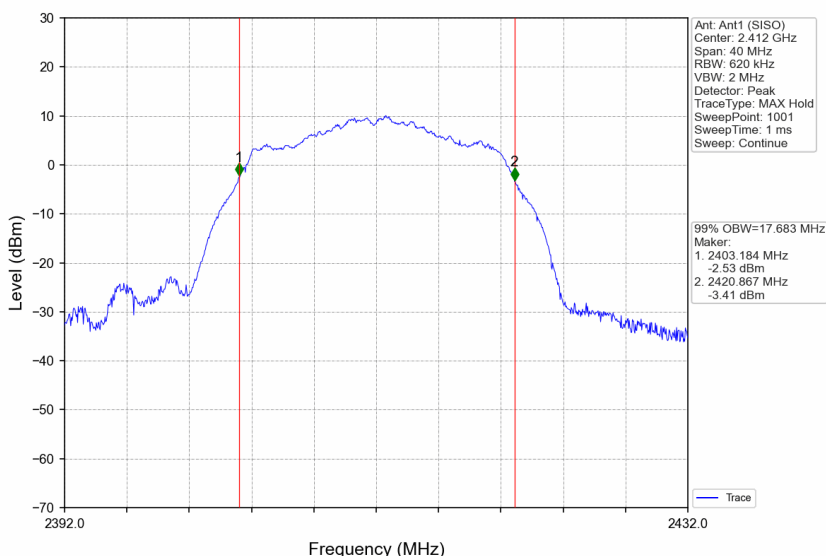
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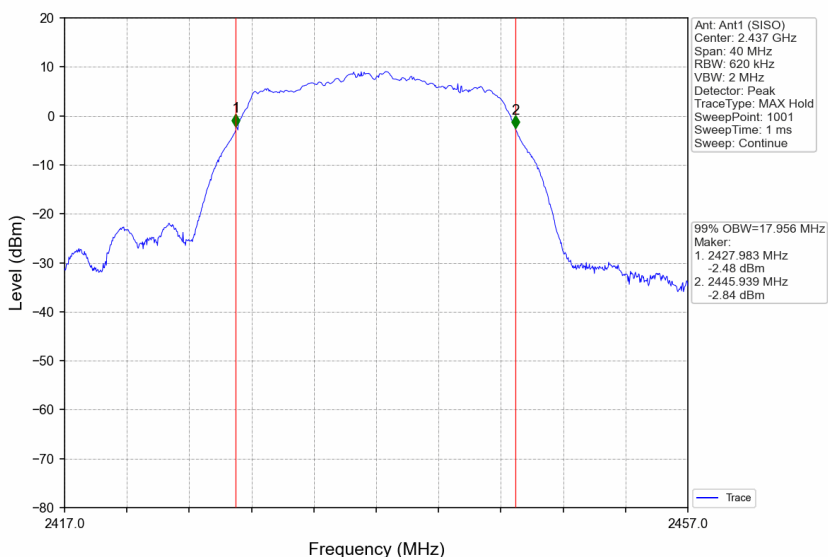
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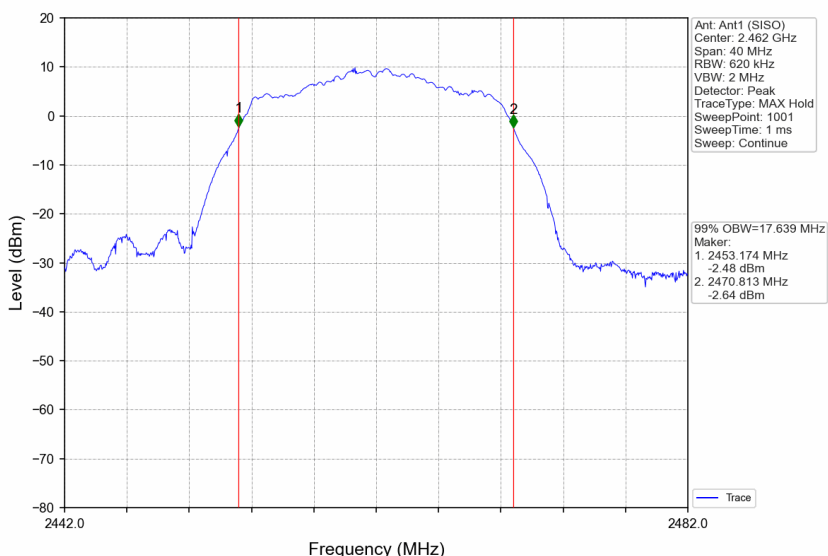
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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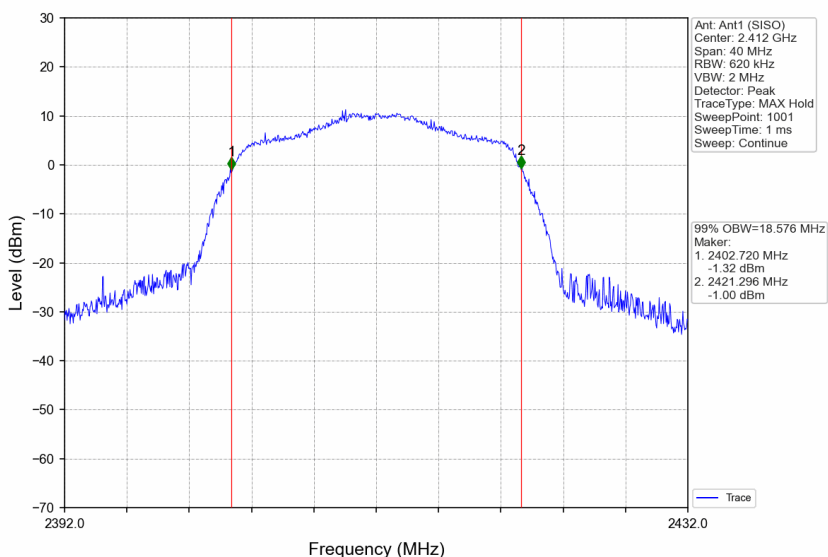
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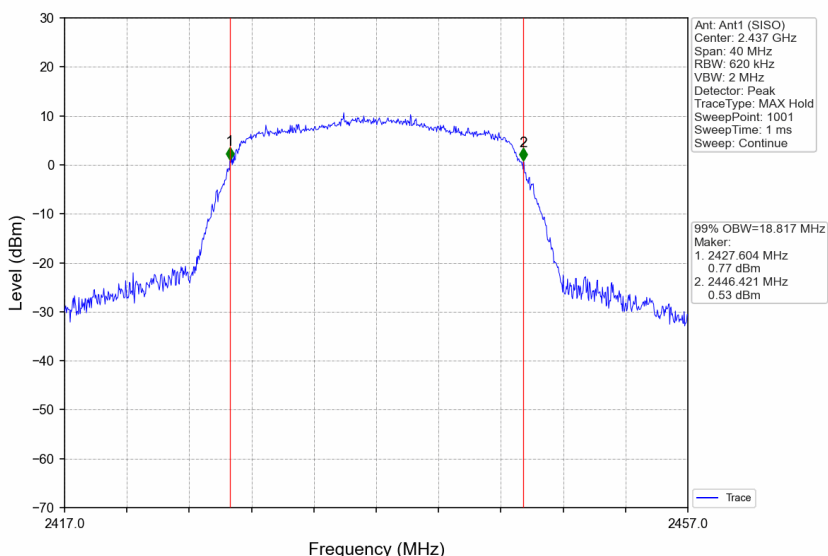
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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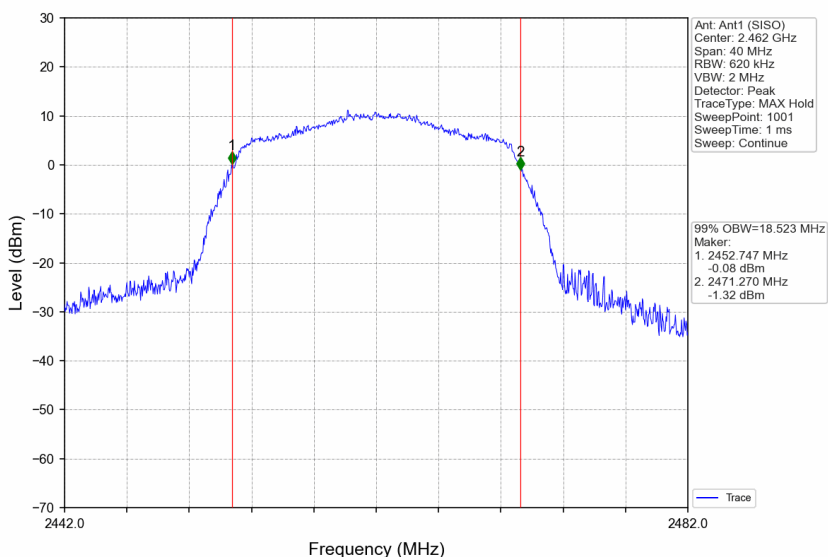
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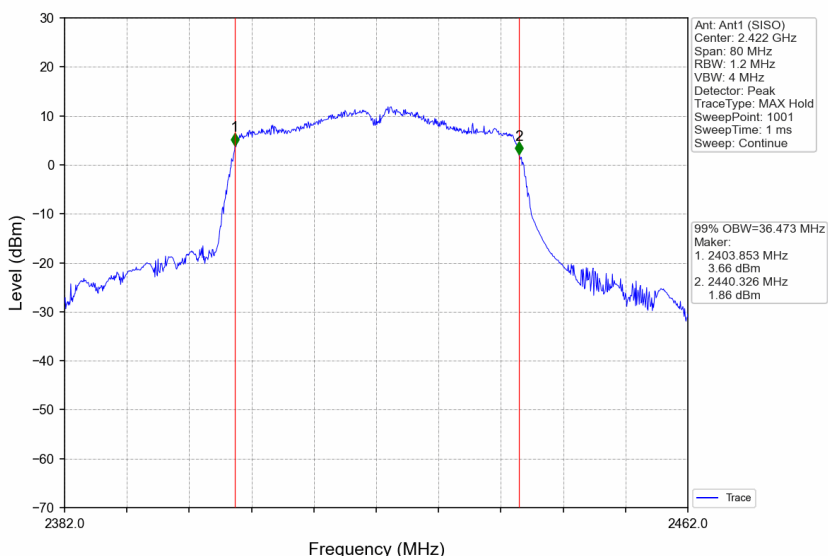
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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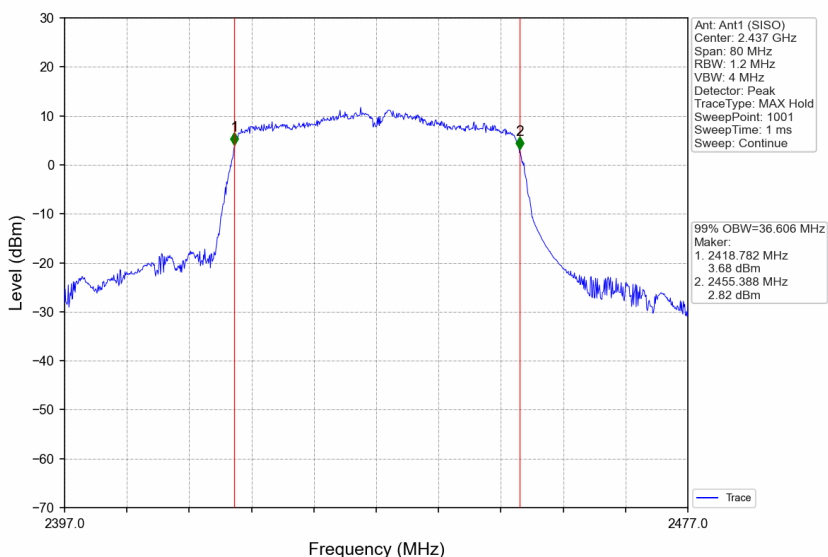
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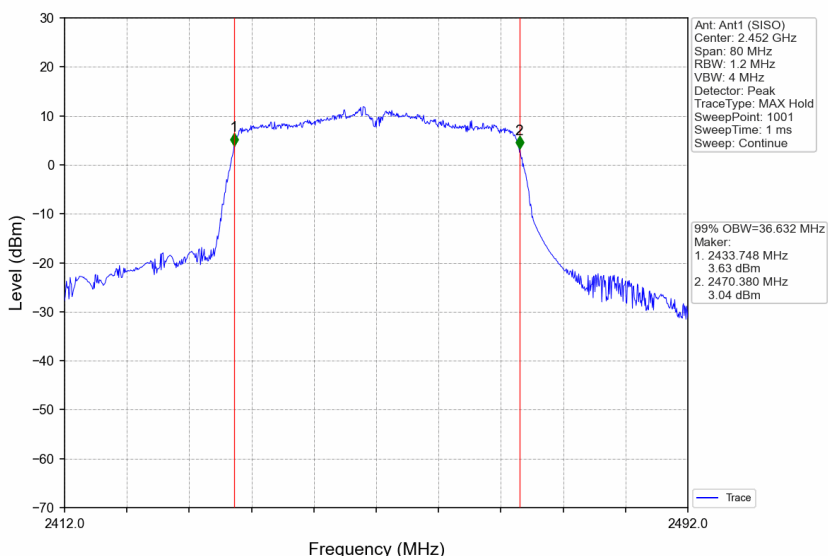
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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## 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.130	$\geq 0.5$	Pass
		2437	1	8.137	$\geq 0.5$	Pass
		2462	1	8.131	$\geq 0.5$	Pass
802.11g	SISO	2412	1	15.227	$\geq 0.5$	Pass
		2437	1	16.331	$\geq 0.5$	Pass
		2462	1	15.213	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	15.240	$\geq 0.5$	Pass
		2437	1	16.977	$\geq 0.5$	Pass
		2462	1	15.369	$\geq 0.5$	Pass
802.11n (HT40)	SISO	2422	1	35.796	$\geq 0.5$	Pass
		2437	1	36.400	$\geq 0.5$	Pass
		2452	1	36.413	$\geq 0.5$	Pass



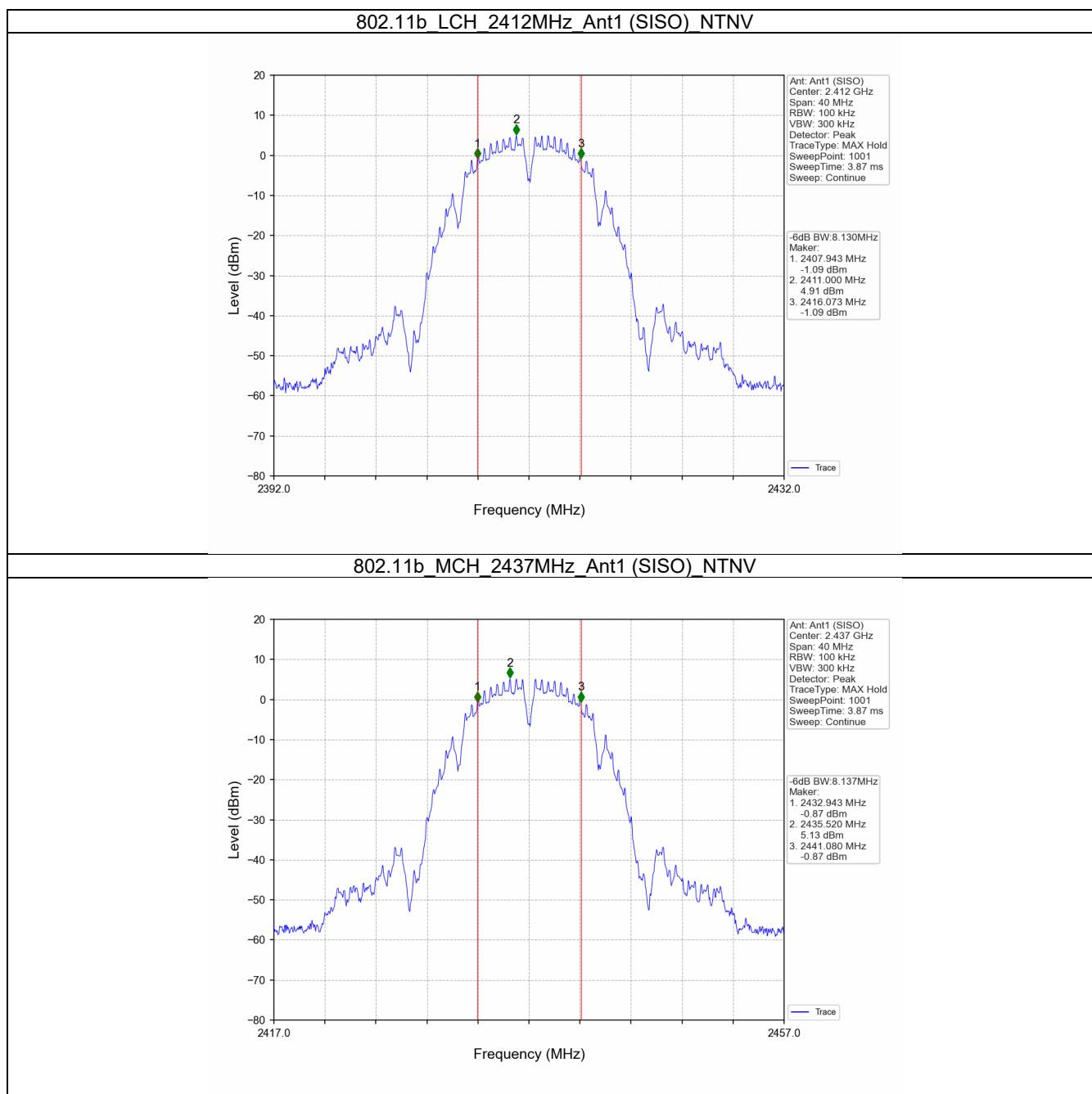
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### 2.2.2 Test Graph



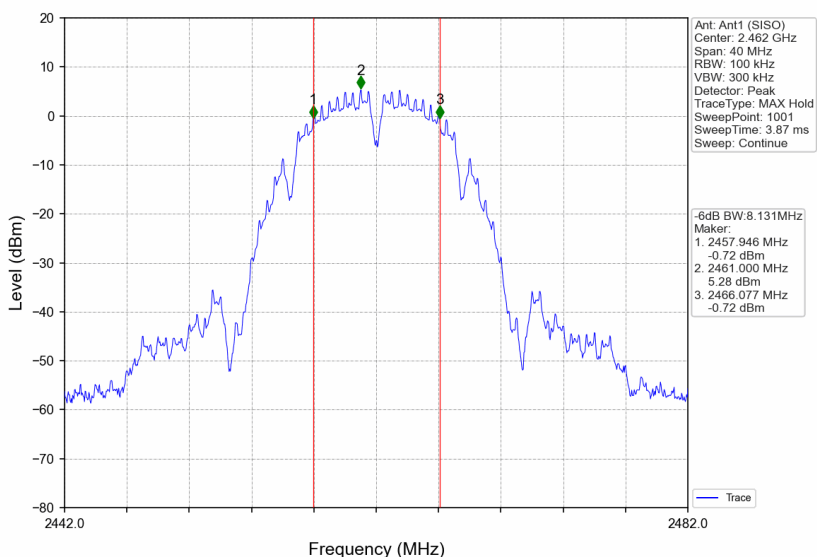
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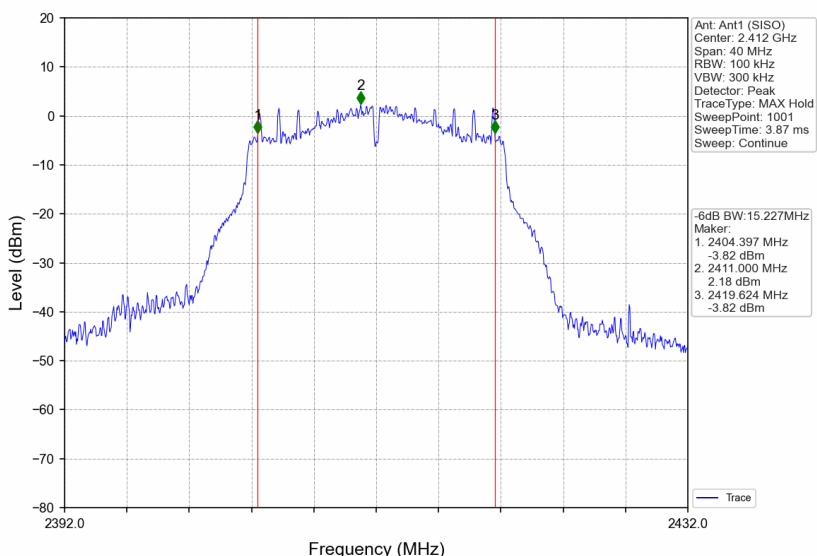
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



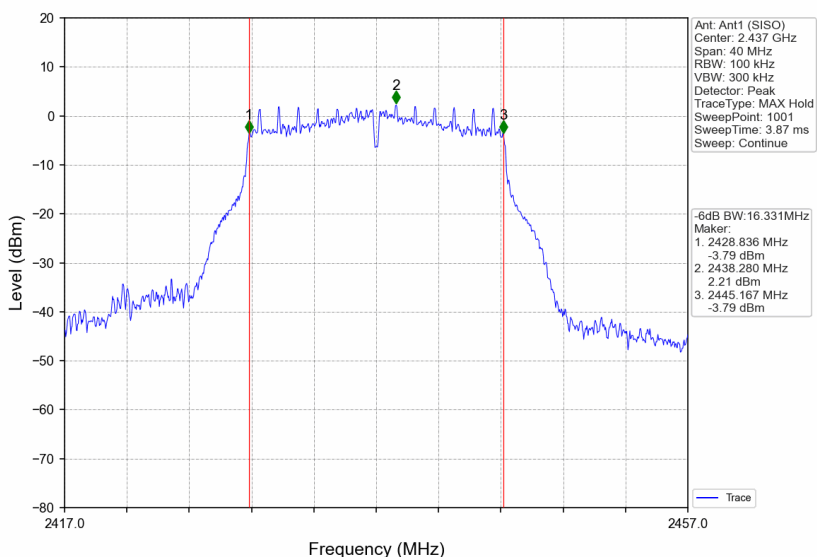
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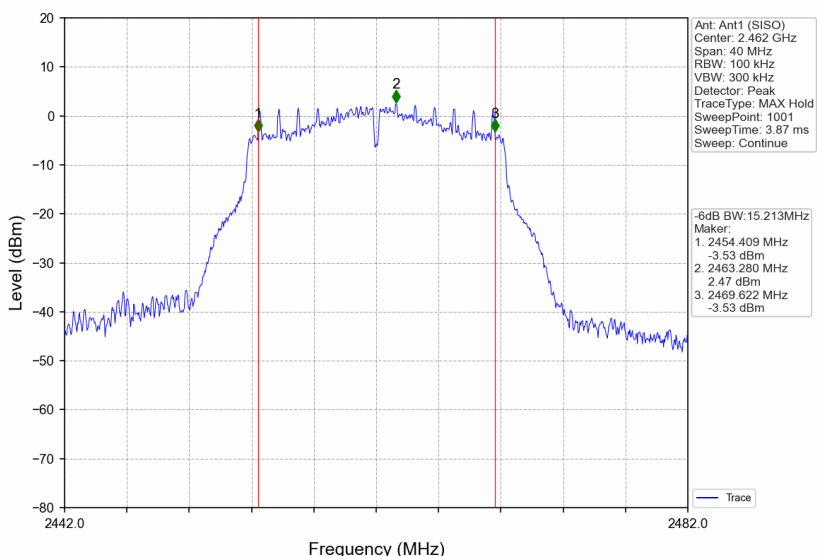
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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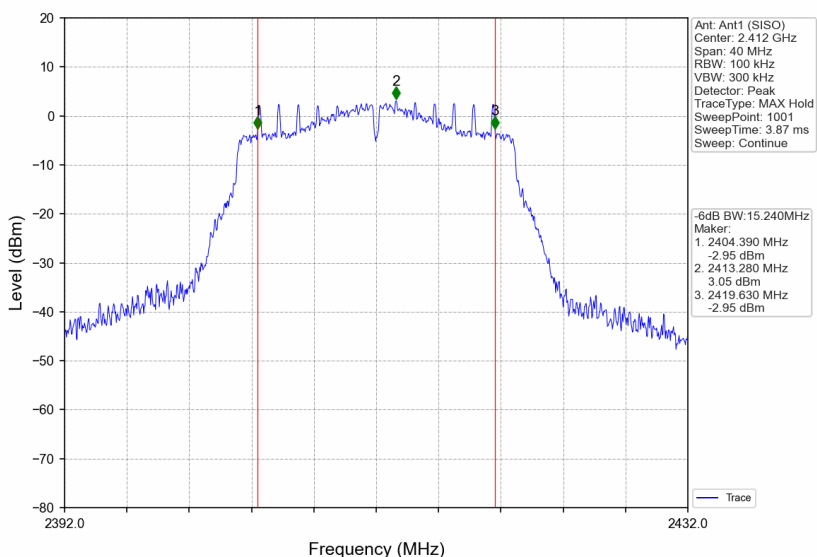
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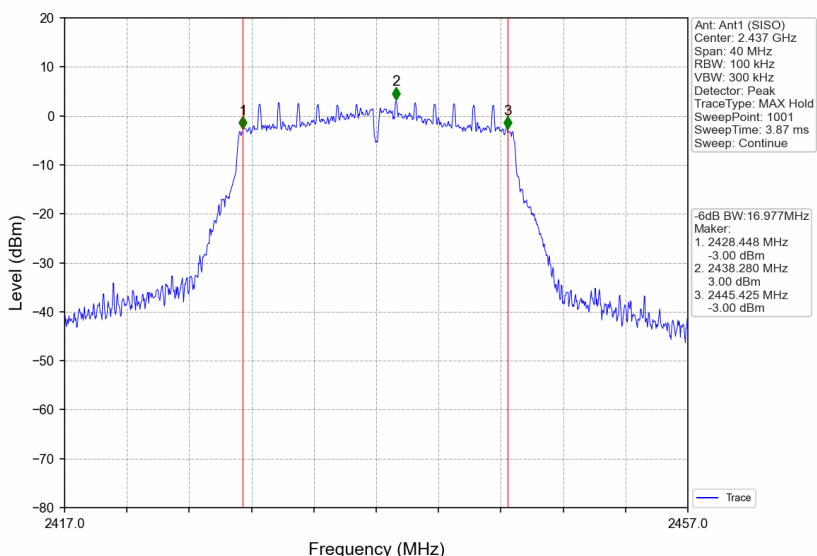
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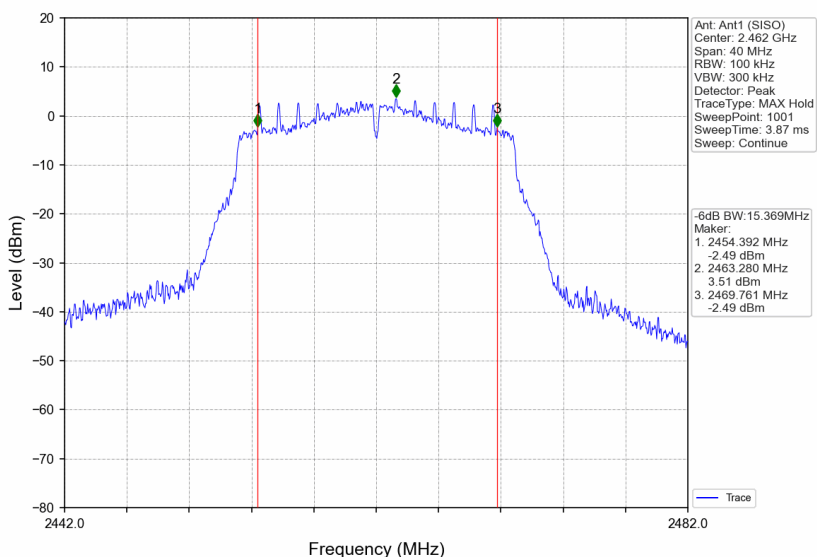
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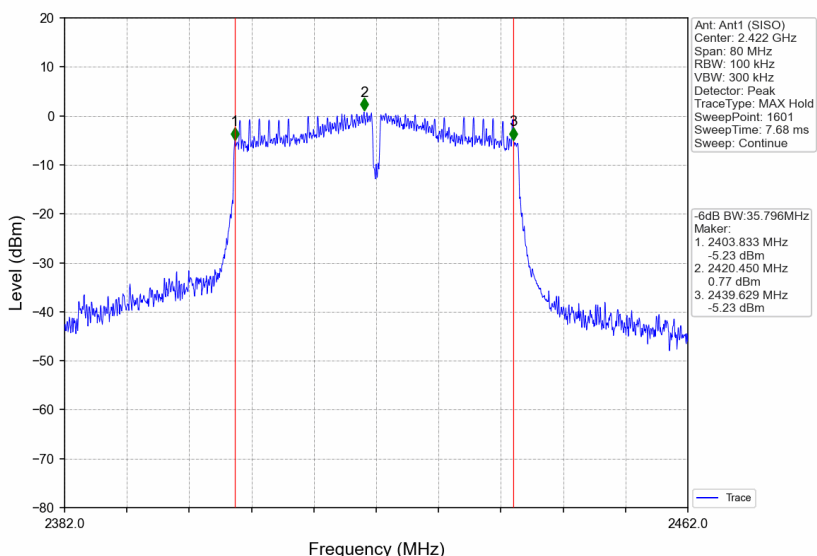
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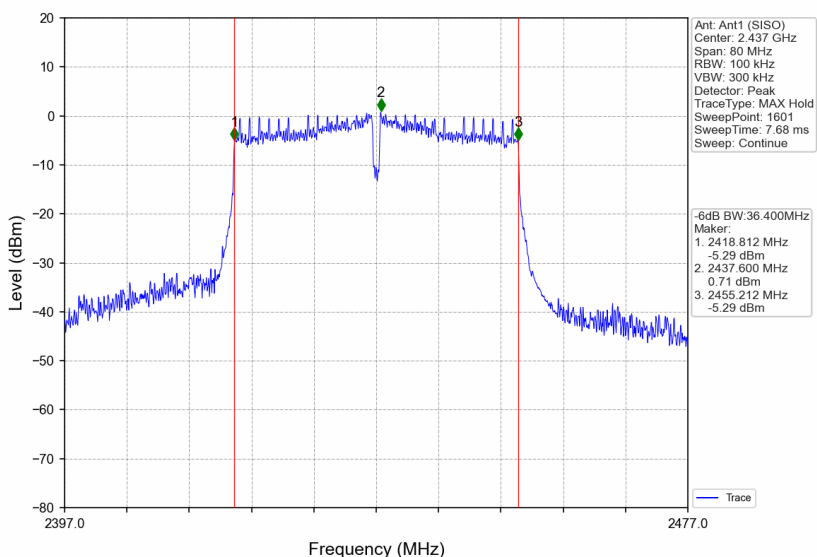
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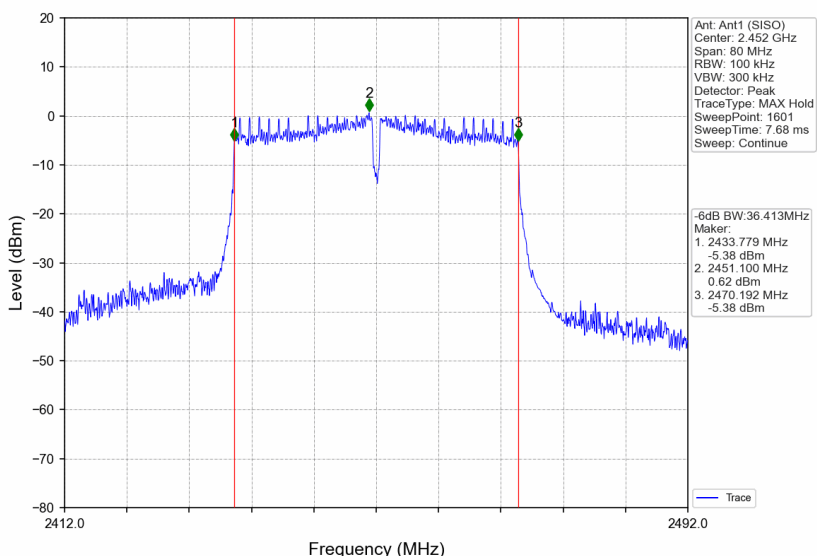
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## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.21	<=30	Pass
		2437	13.37	<=30	Pass
		2462	13.50	<=30	Pass
802.11g	SISO	2412	13.28	<=30	Pass
		2437	13.45	<=30	Pass
		2462	13.63	<=30	Pass
802.11n (HT20)	SISO	2412	13.79	<=30	Pass
		2437	14.14	<=30	Pass
		2462	14.16	<=30	Pass
802.11n (HT40)	SISO	2422	14.04	<=30	Pass
		2437	14.19	<=30	Pass
		2452	14.08	<=30	Pass

Note1: Antenna Gain: Ant1: 2.88dBi;



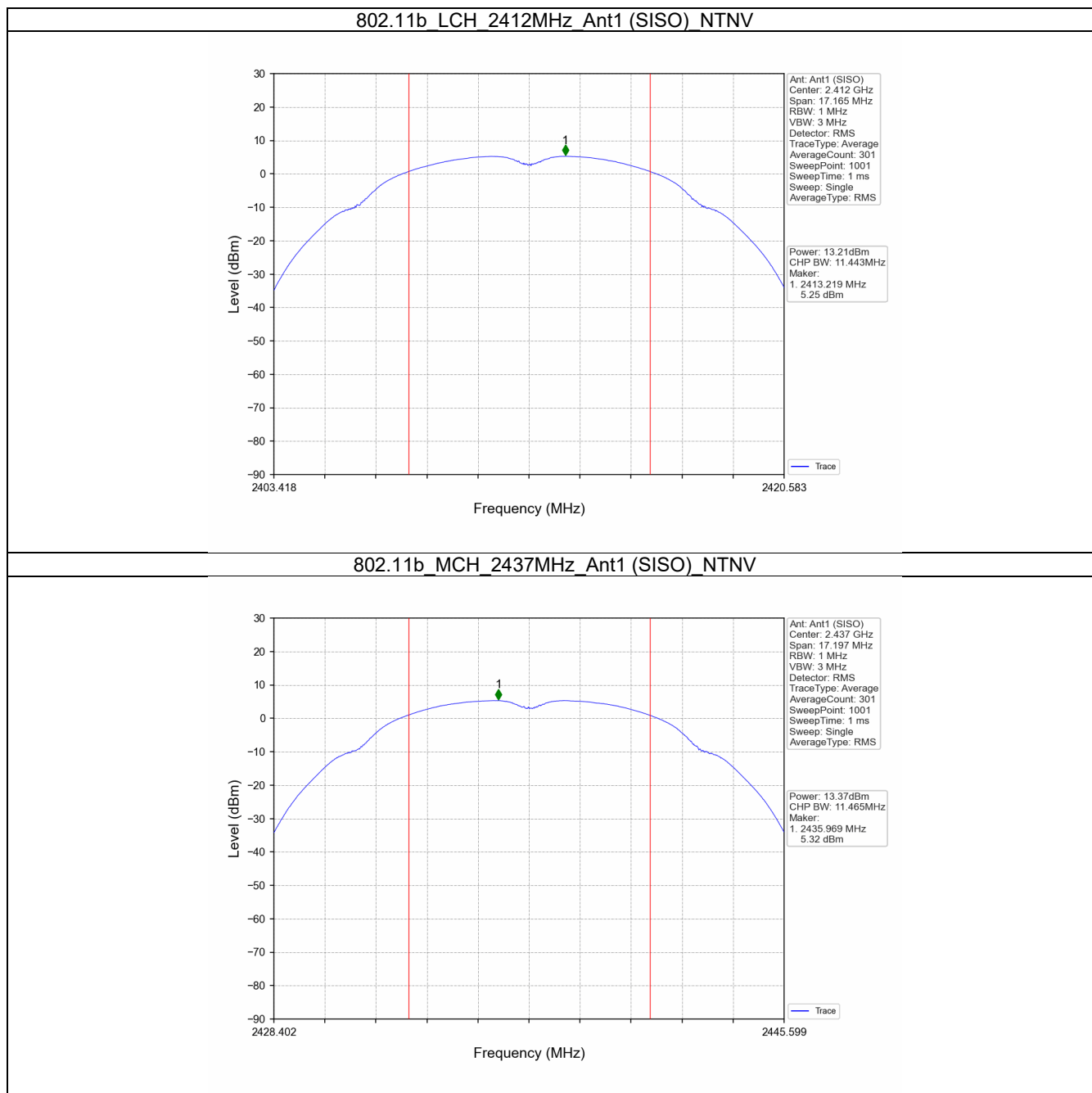
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### 3.1.2 Test Graph



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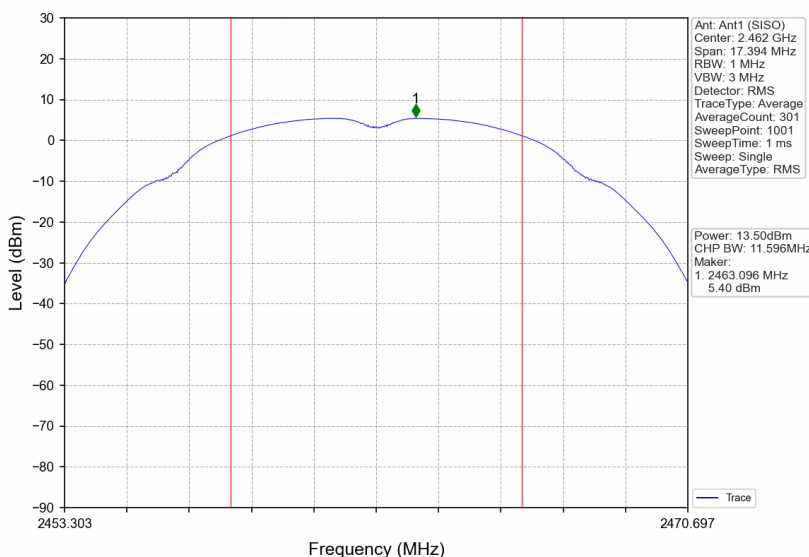
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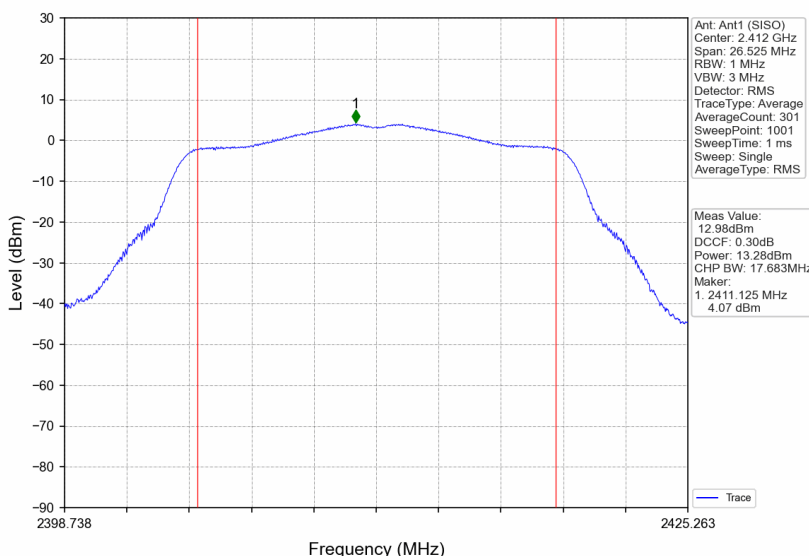
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



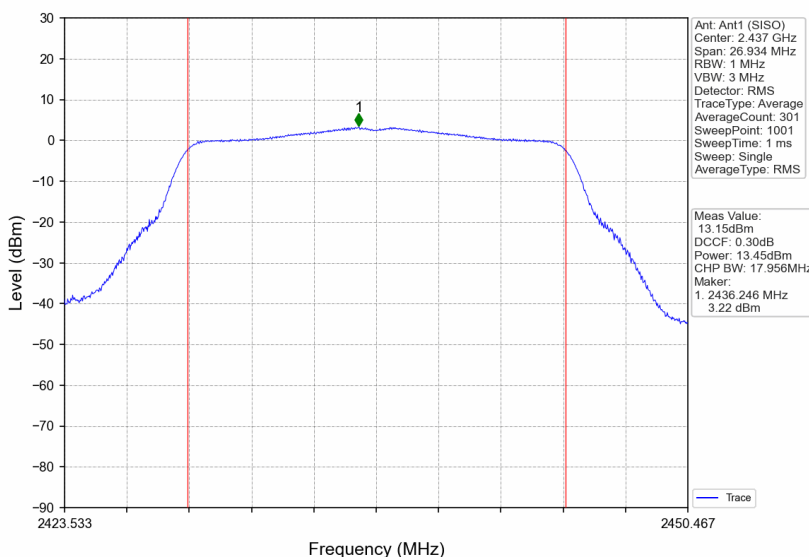
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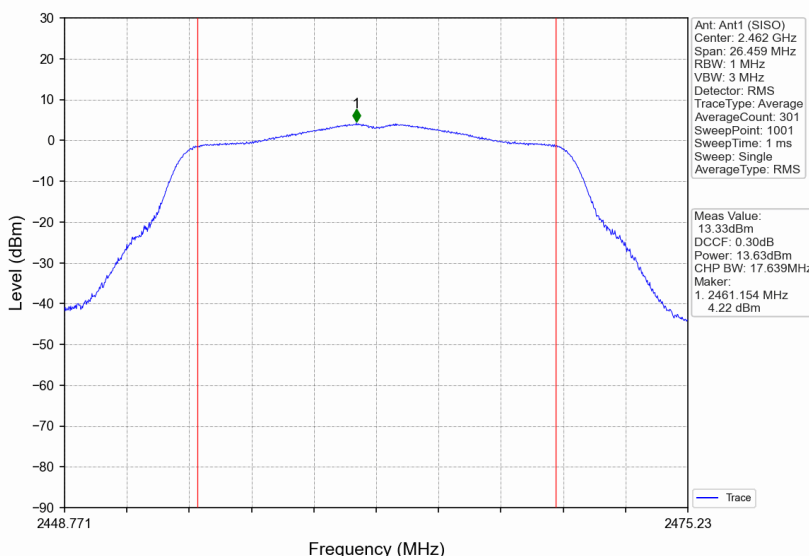
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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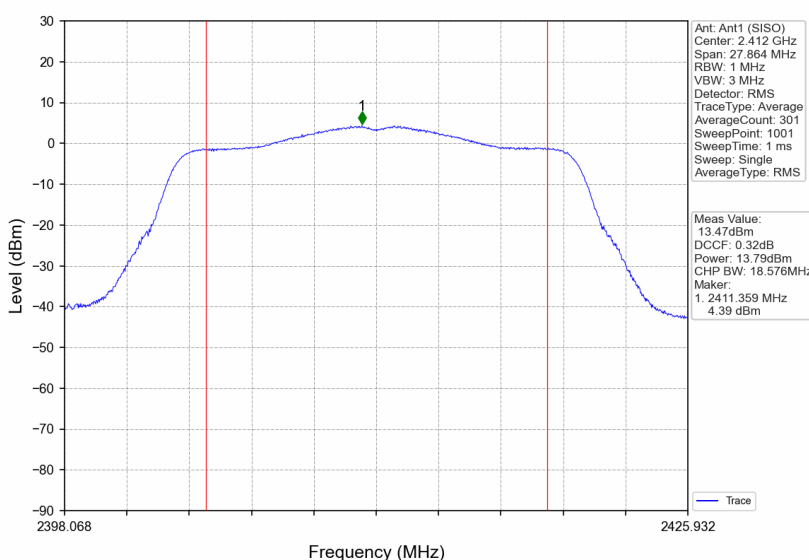
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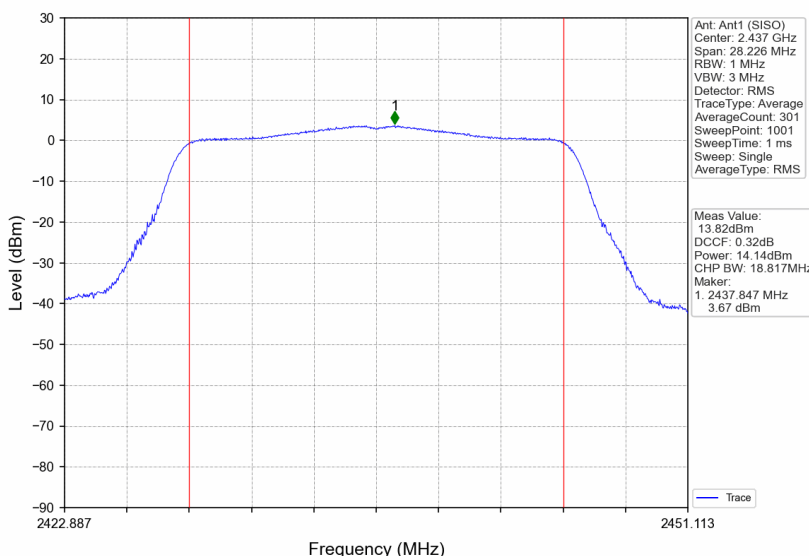
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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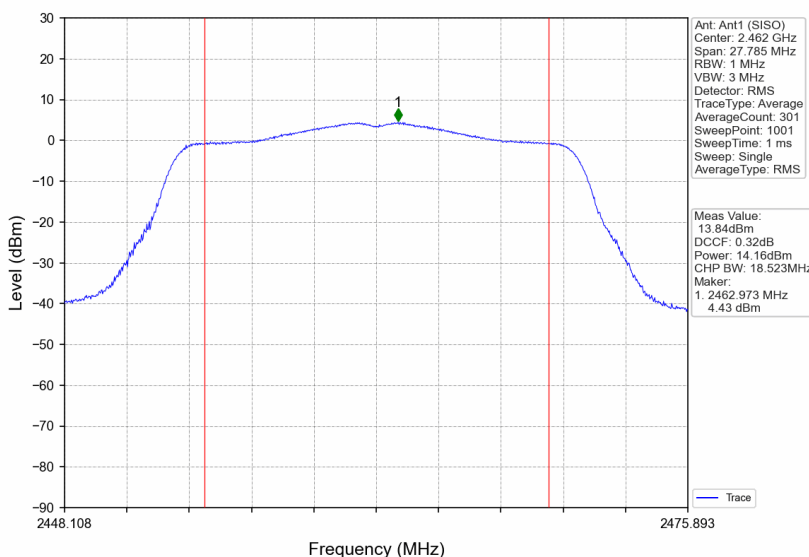
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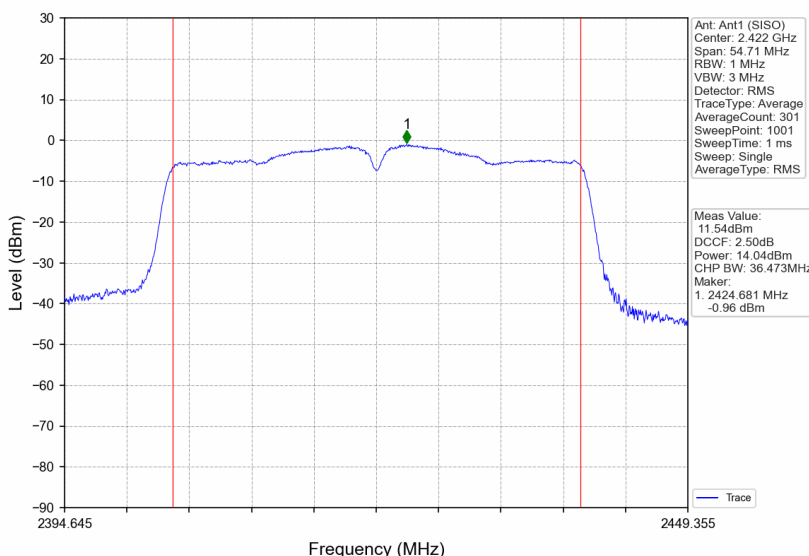
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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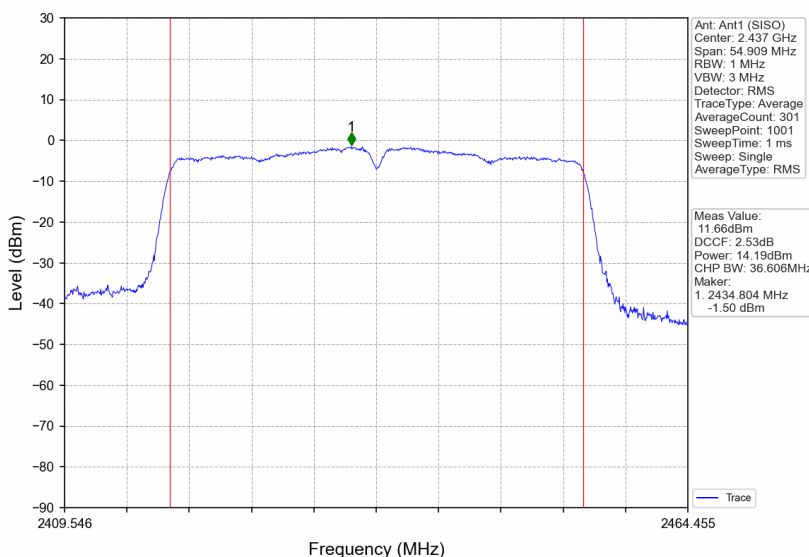
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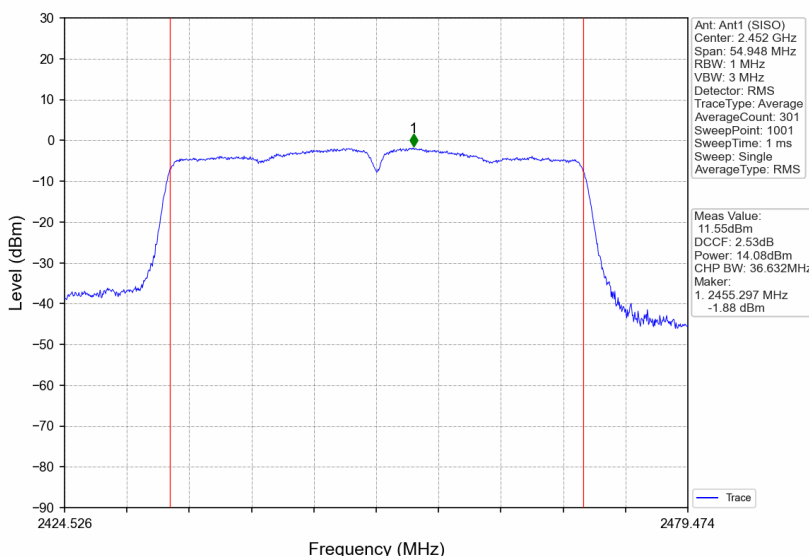
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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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	-9.65	<=8	Pass
		2437	-8.16	<=8	Pass
		2462	-9.06	<=8	Pass
802.11g	SISO	2412	-9.33	<=8	Pass
		2437	-11.06	<=8	Pass
		2462	-9.58	<=8	Pass
802.11n (HT20)	SISO	2412	-9.73	<=8	Pass
		2437	-10.67	<=8	Pass
		2462	-9.14	<=8	Pass
802.11n (HT40)	SISO	2422	-13.04	<=8	Pass
		2437	-13.79	<=8	Pass
		2452	-15.44	<=8	Pass

Note1: Antenna Gain: Ant1: 2.88dBi;



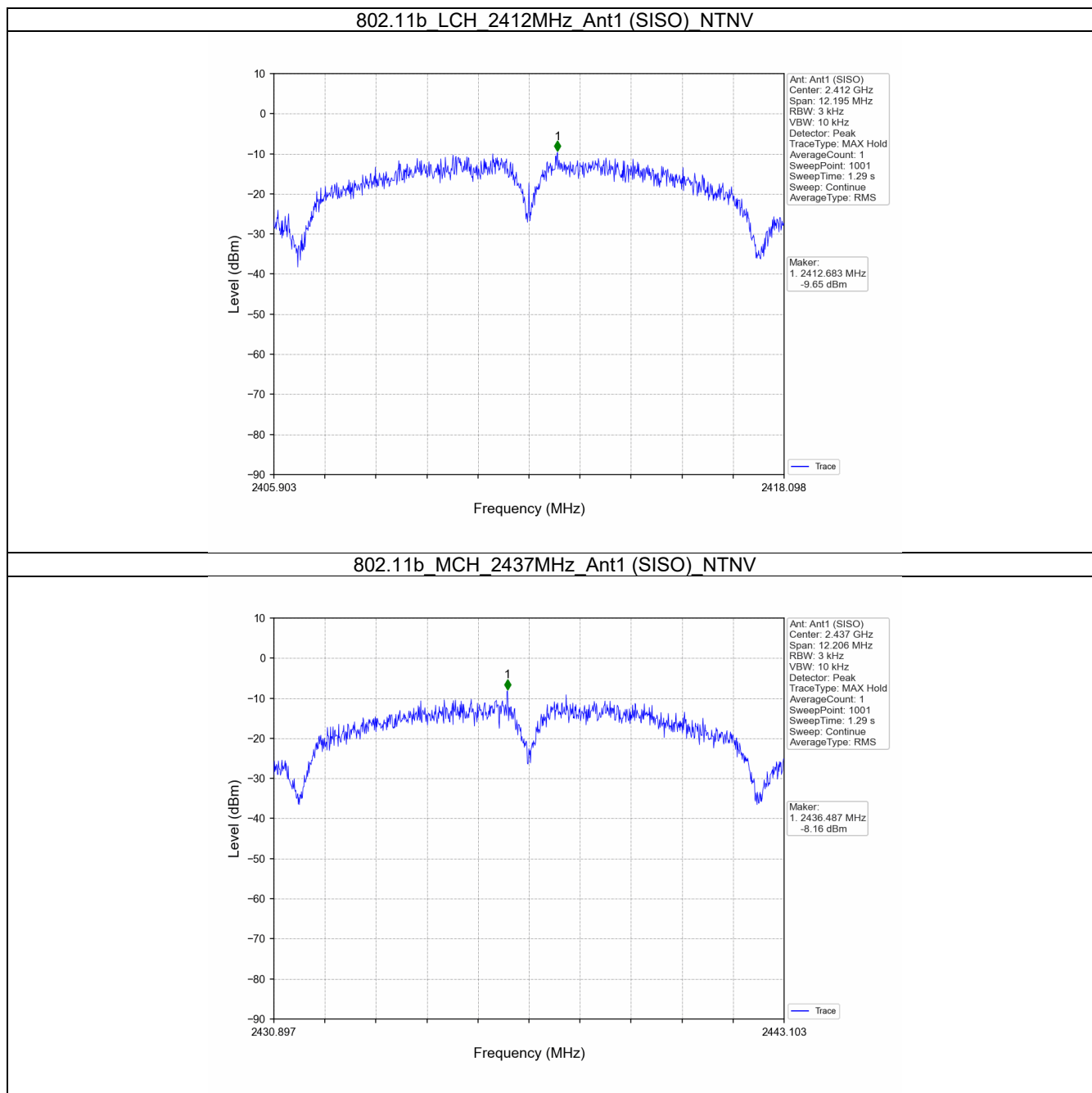
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### 4.1.2 Test Graph



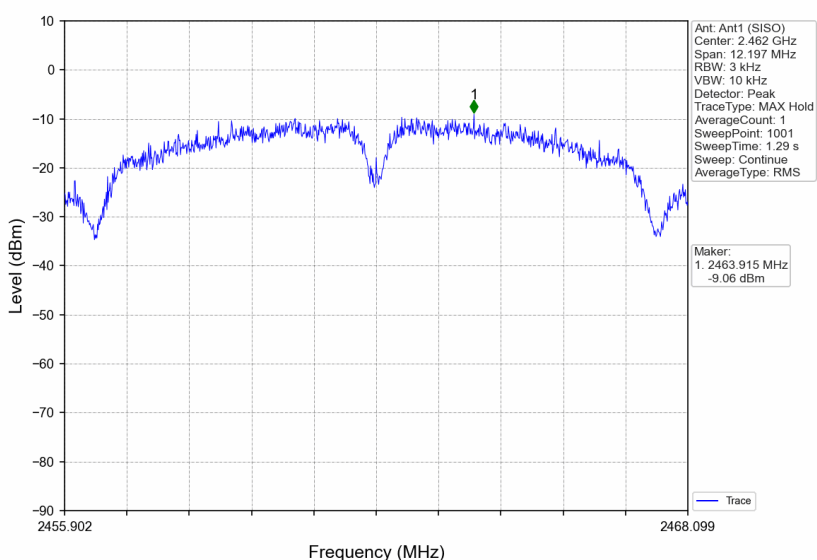
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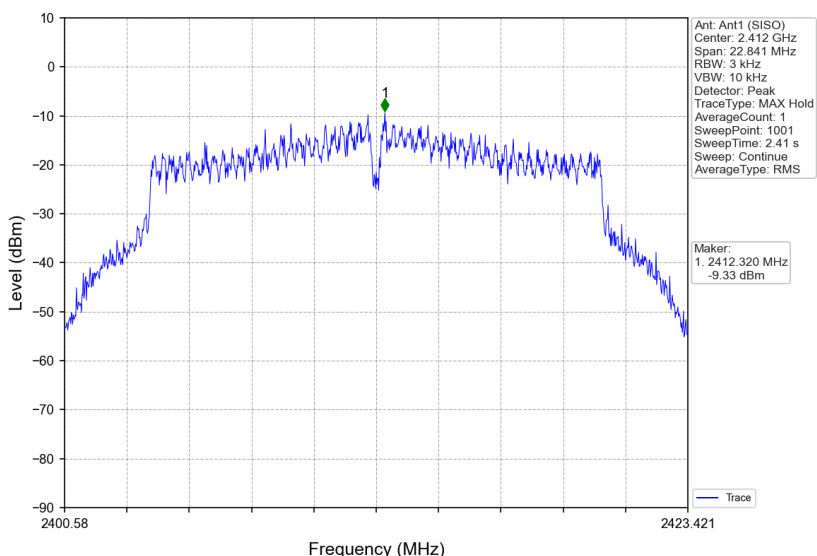
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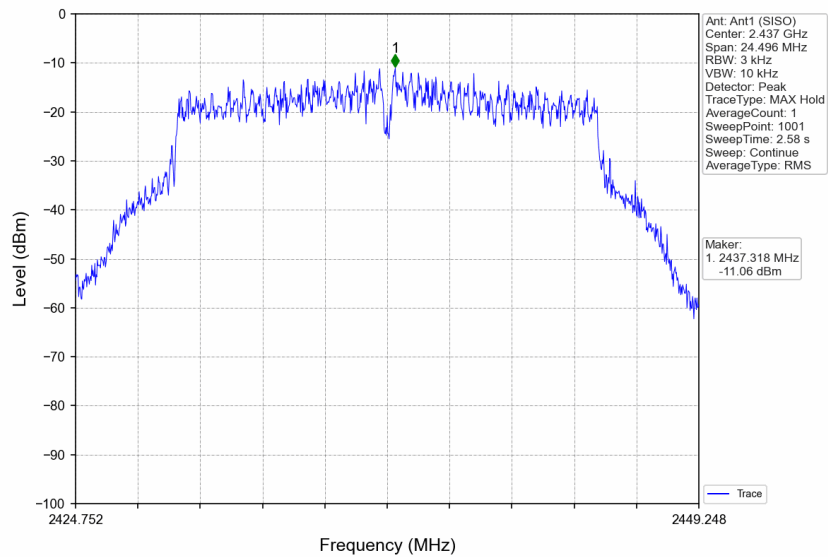
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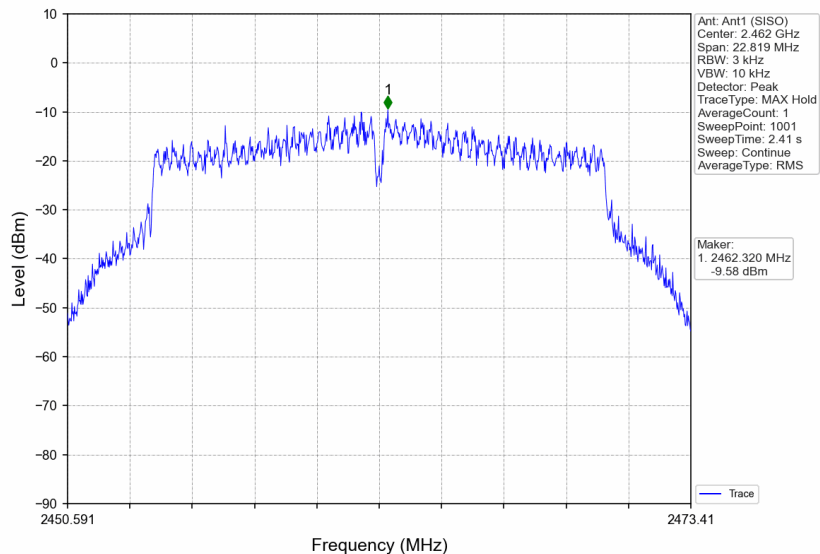
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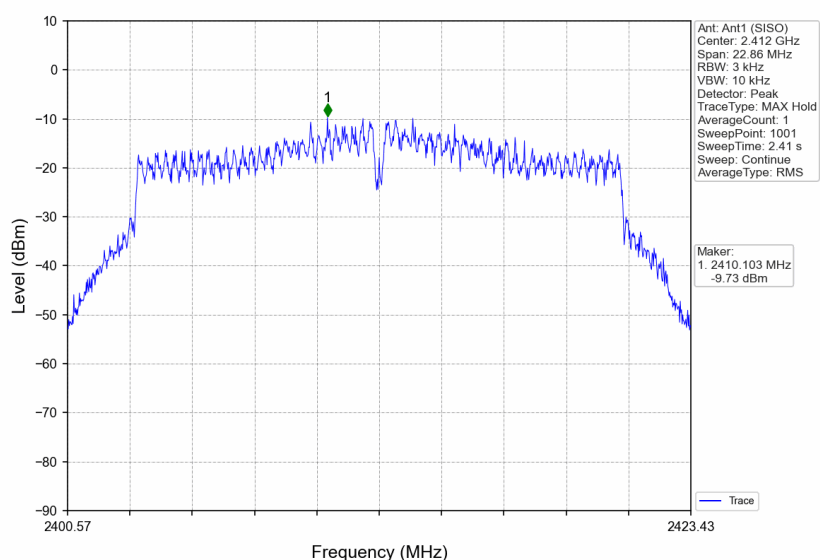
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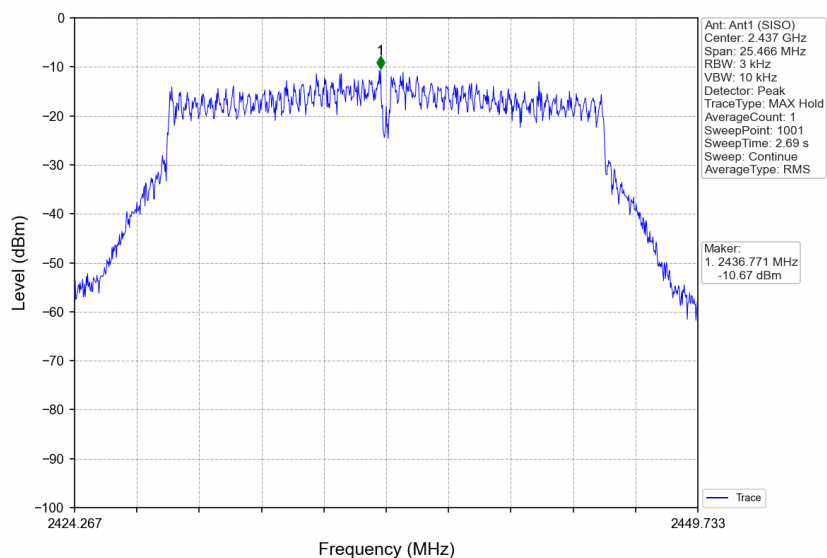
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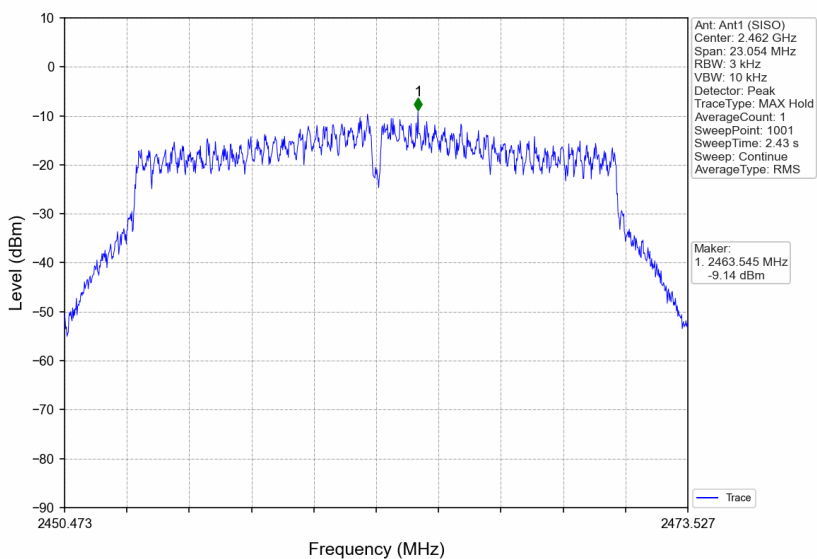
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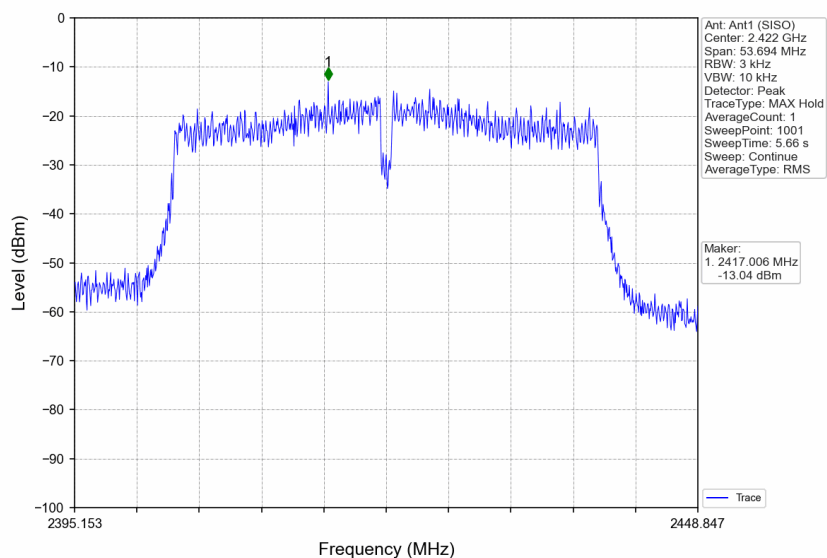
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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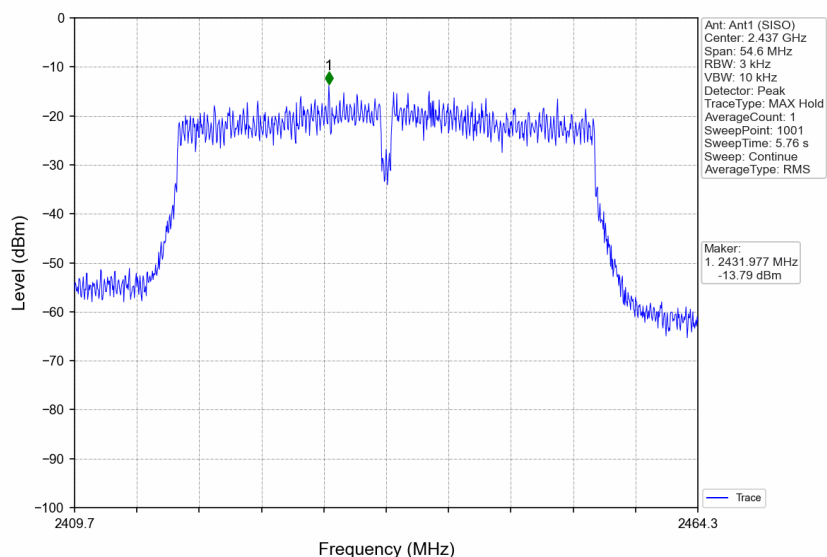
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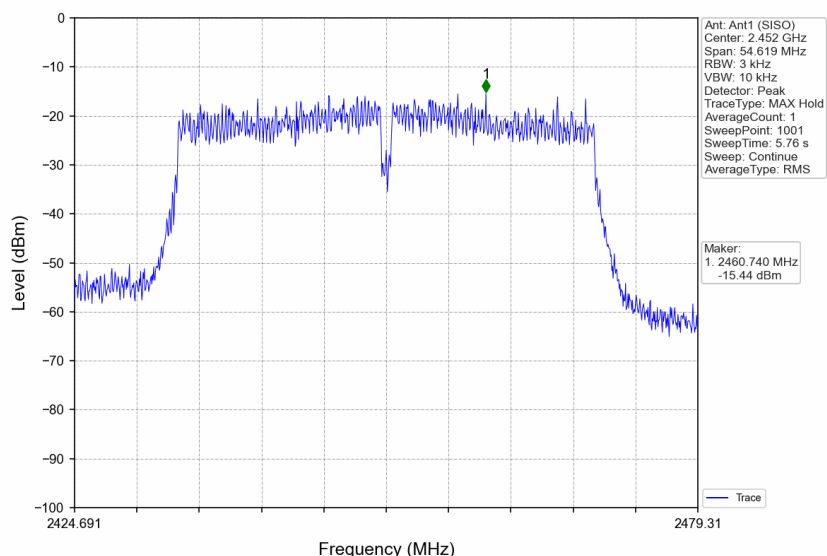
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.01
		2437	1	5.29
		2462	1	5.29
802.11g	SISO	2412	1	2.13
		2437	1	1.90
		2462	1	2.30
802.11n (HT20)	SISO	2412	1	2.80
		2437	1	3.03
		2462	1	3.30
802.11n (HT40)	SISO	2422	1	0.52
		2437	1	0.52
		2452	1	0.52

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.

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.



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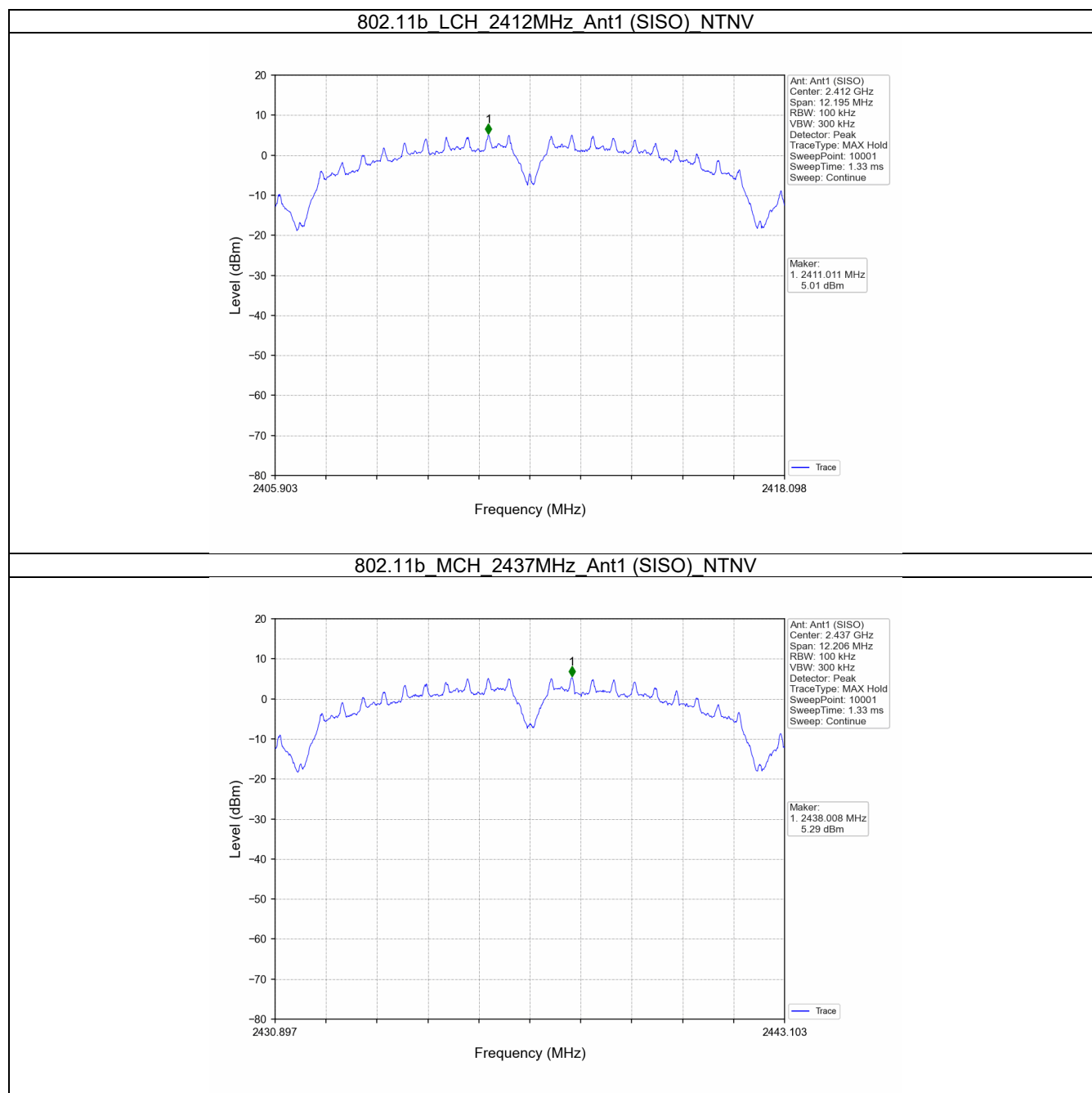
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## 5.1.2 Test Graph



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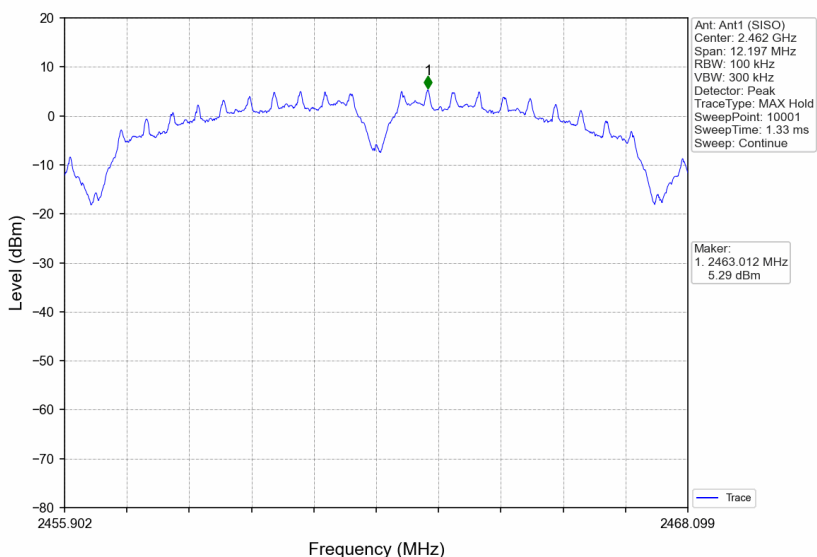
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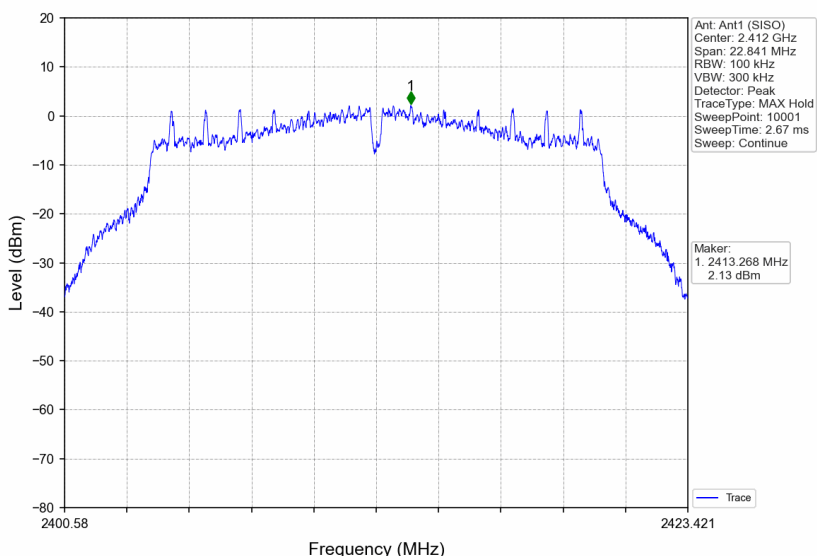
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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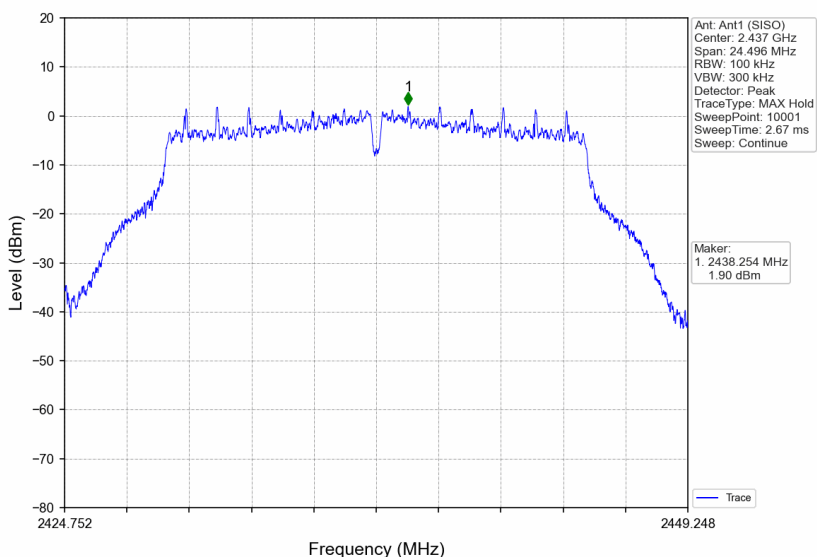
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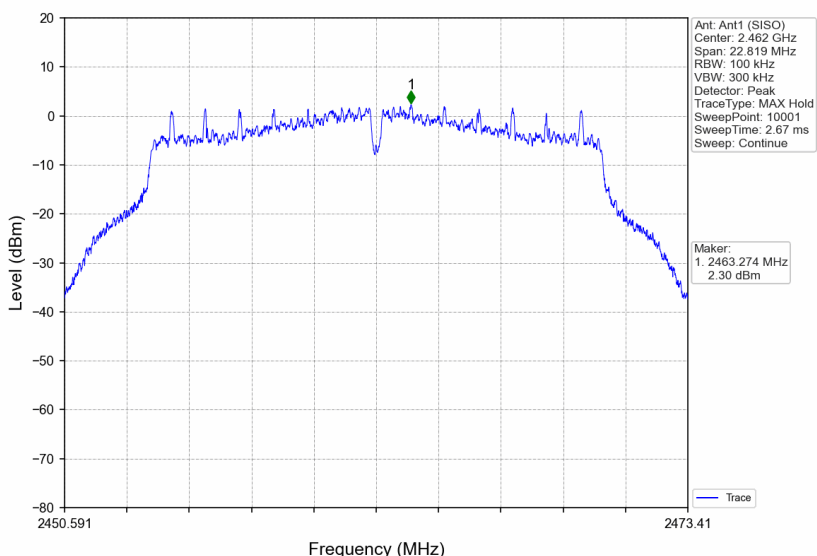
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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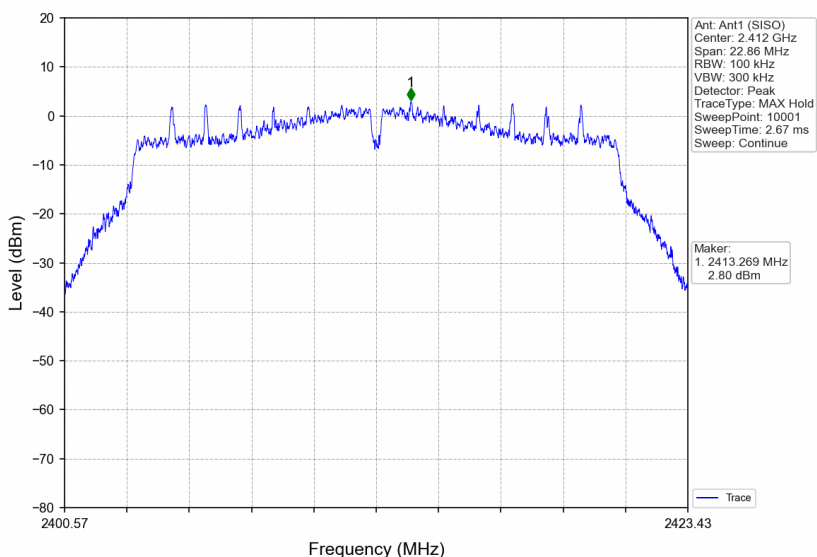
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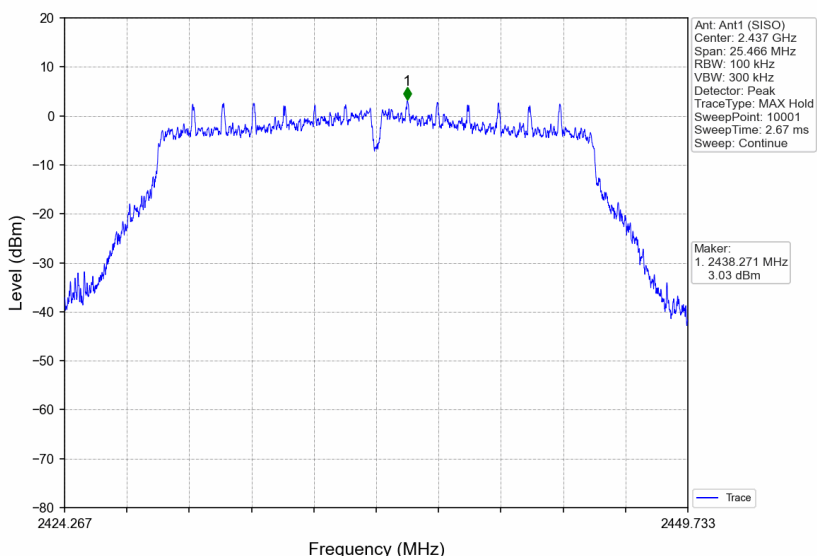
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



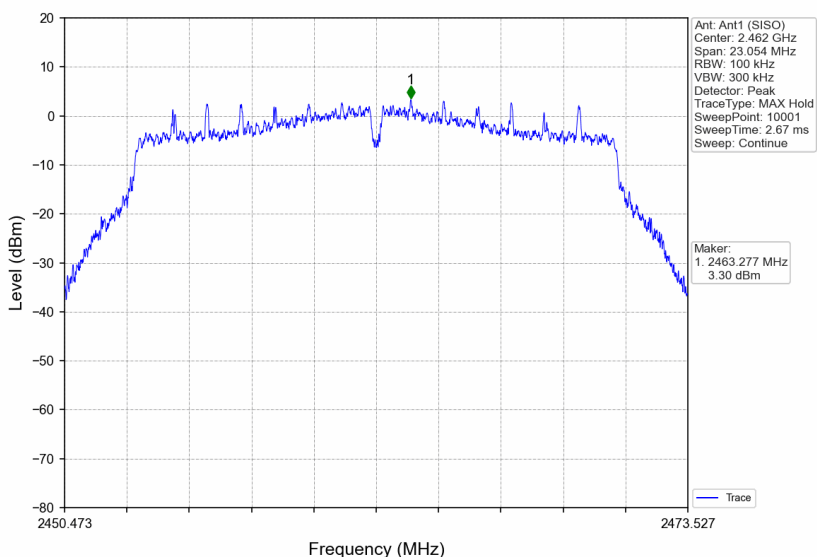
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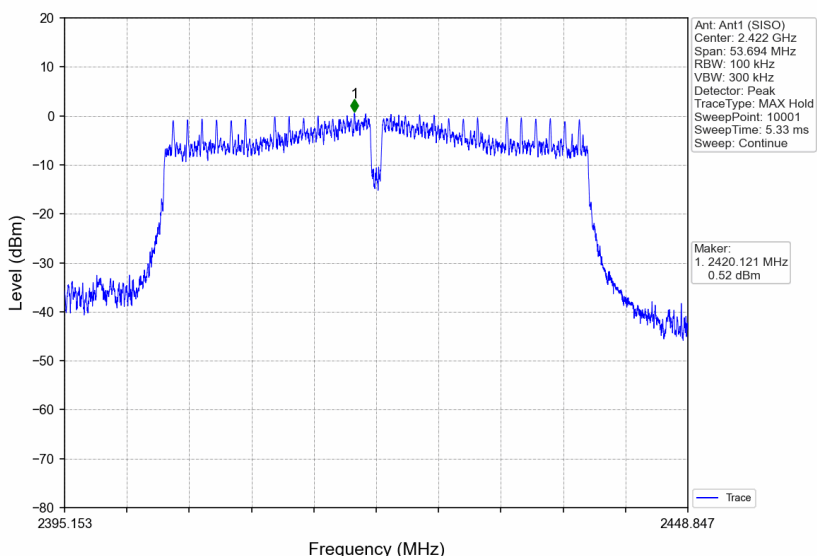
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



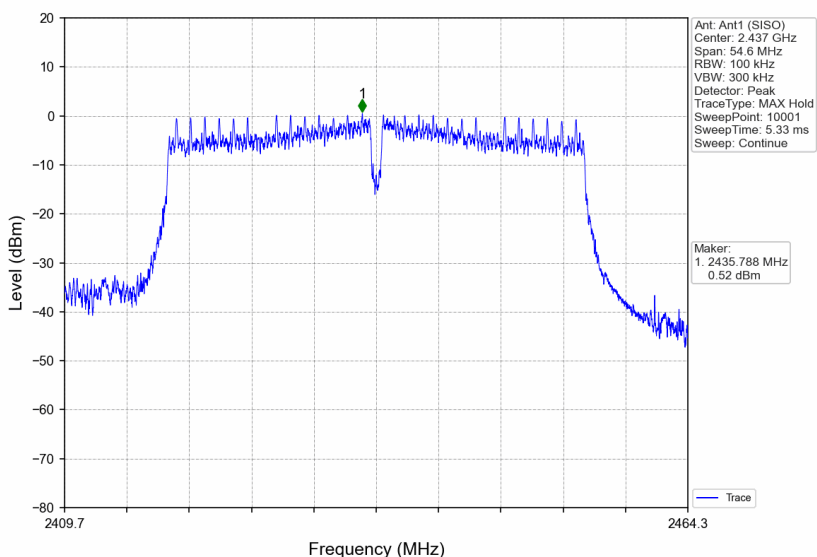
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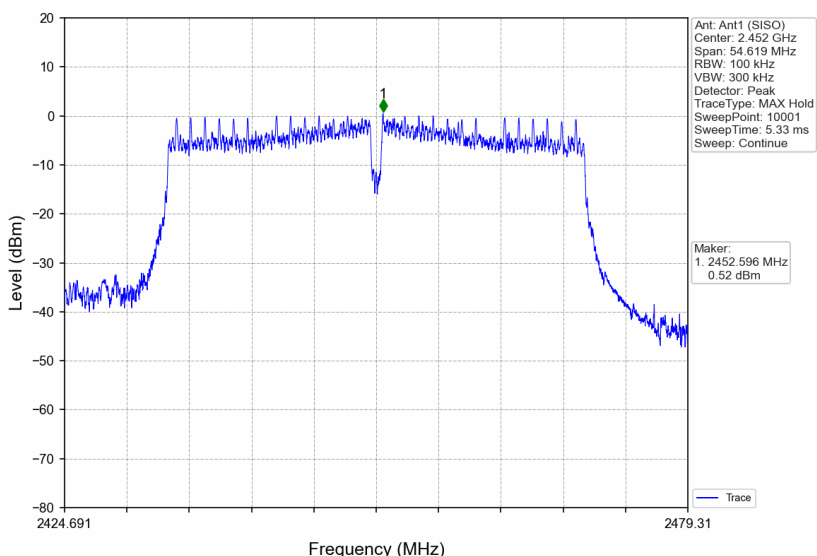
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.29	-24.71	Pass
		2437	1	5.29	-24.71	Pass
		2462	1	5.29	-24.71	Pass
802.11g	SISO	2412	1	2.30	-27.70	Pass
		2437	1	2.30	-27.70	Pass
		2462	1	2.30	-27.70	Pass
802.11n (HT20)	SISO	2412	1	3.30	-26.70	Pass
		2437	1	3.30	-26.70	Pass
		2462	1	3.30	-26.70	Pass
802.11n (HT40)	SISO	2422	1	0.52	-29.48	Pass
		2437	1	0.52	-29.48	Pass
		2452	1	0.52	-29.48	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.

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.



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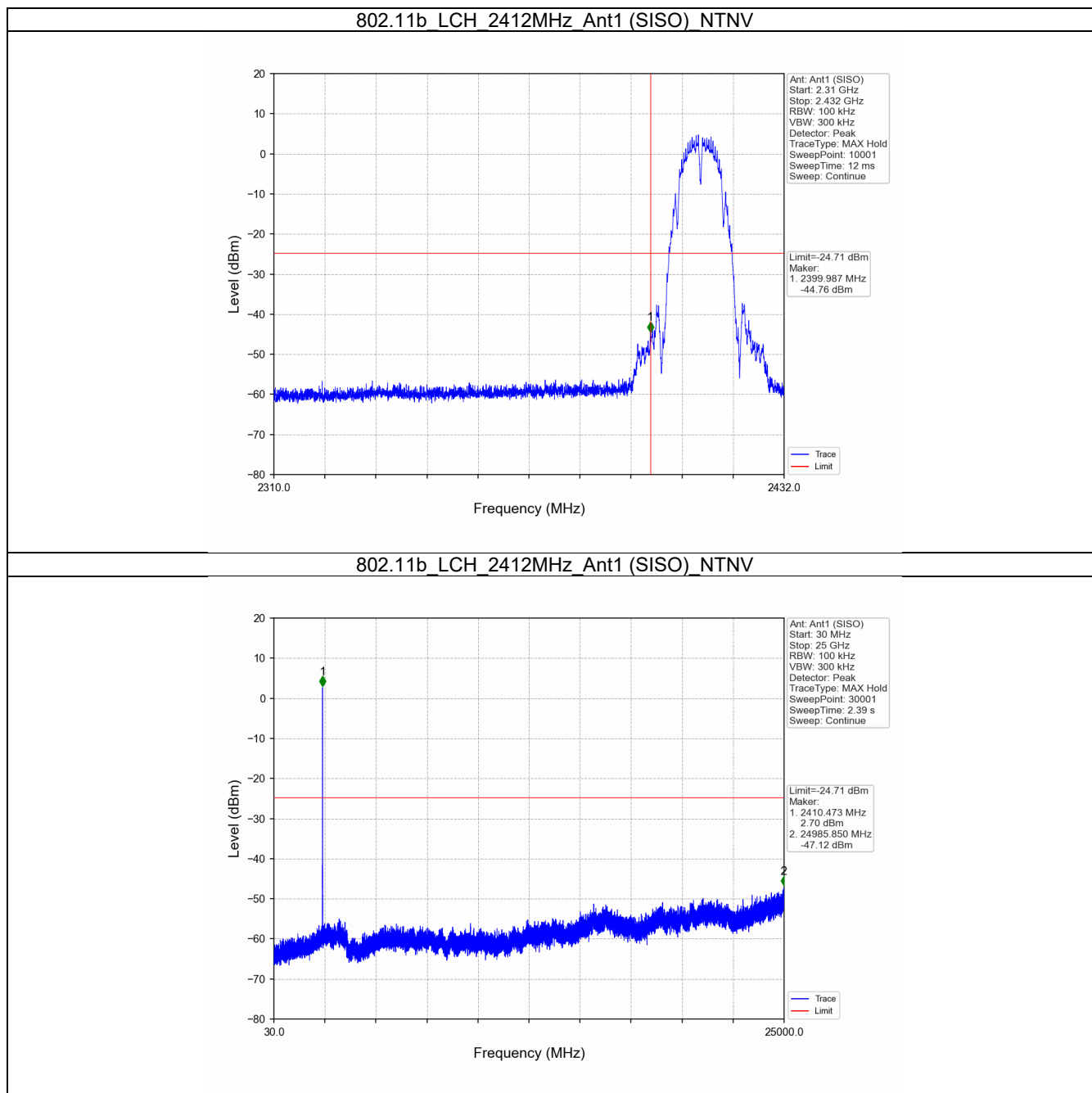
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### 5.2.2 Test Graph



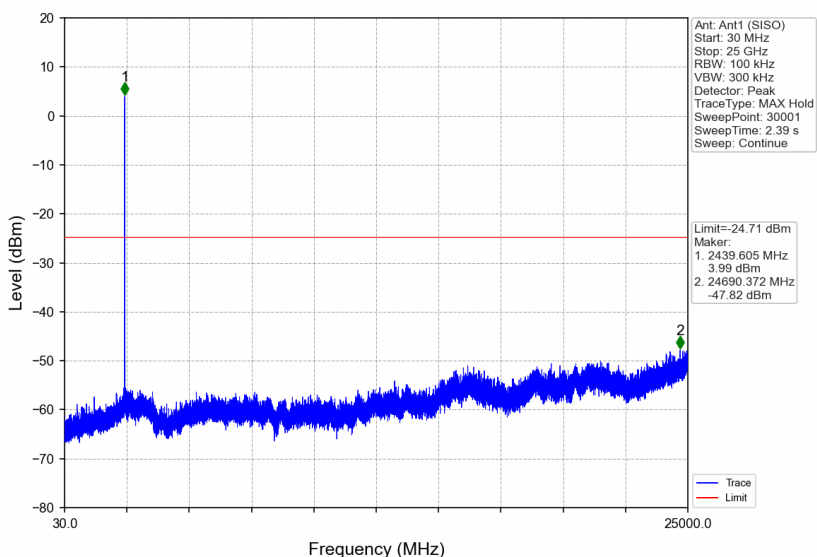
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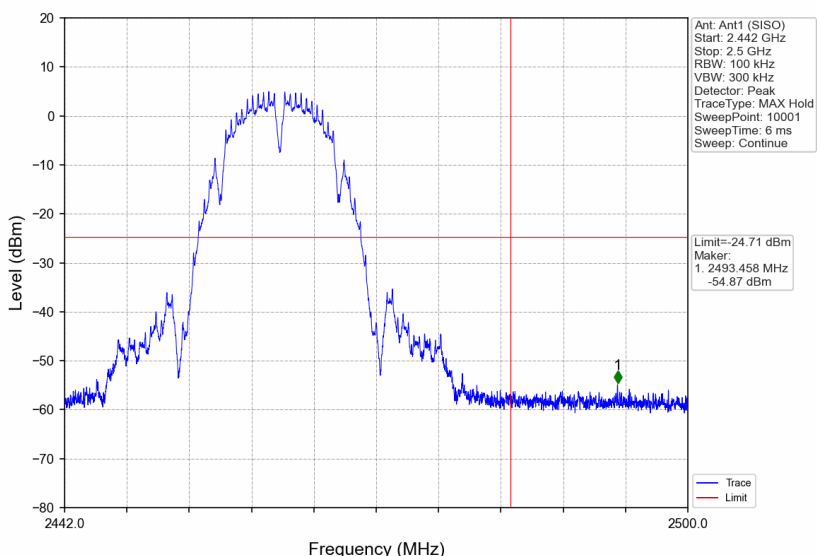
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



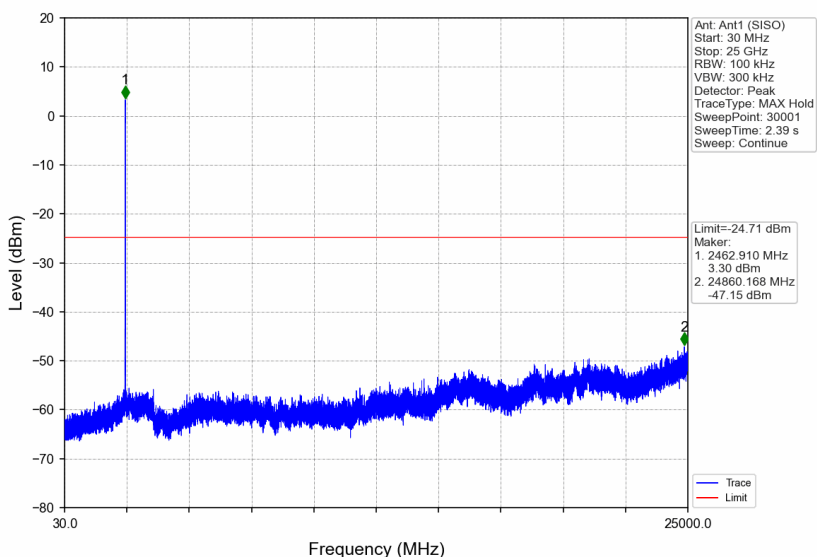
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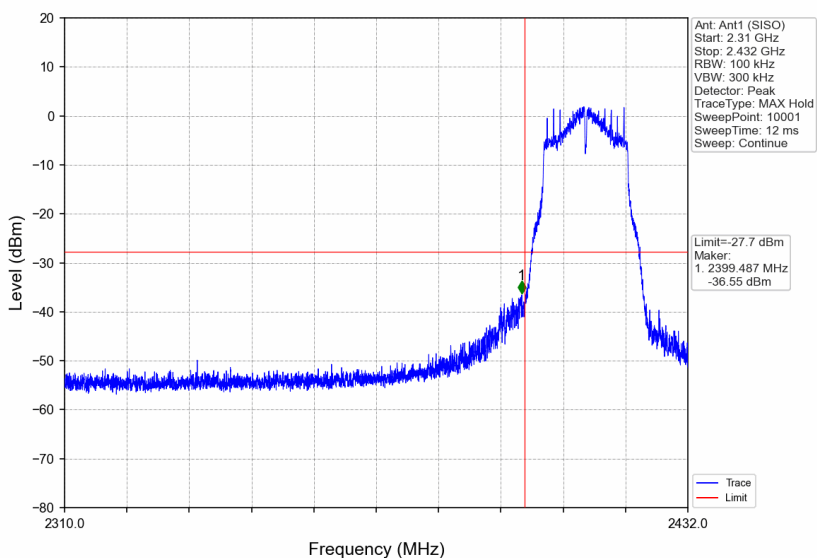
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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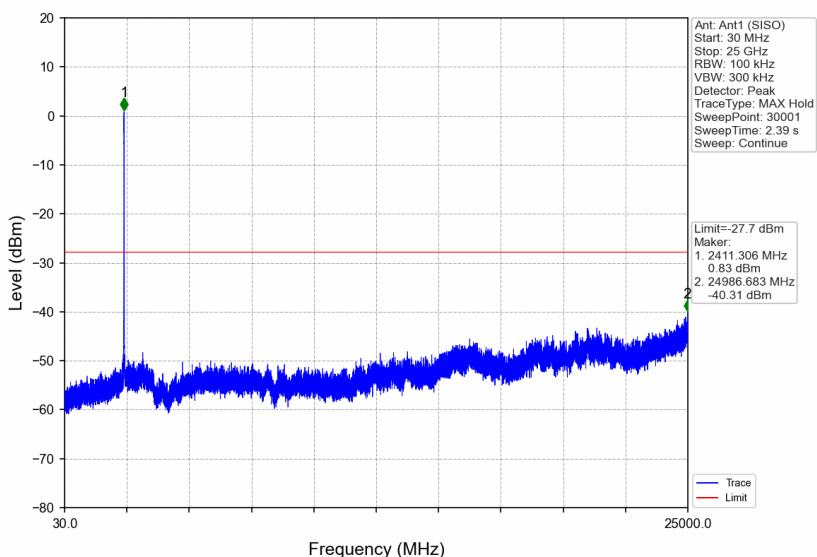
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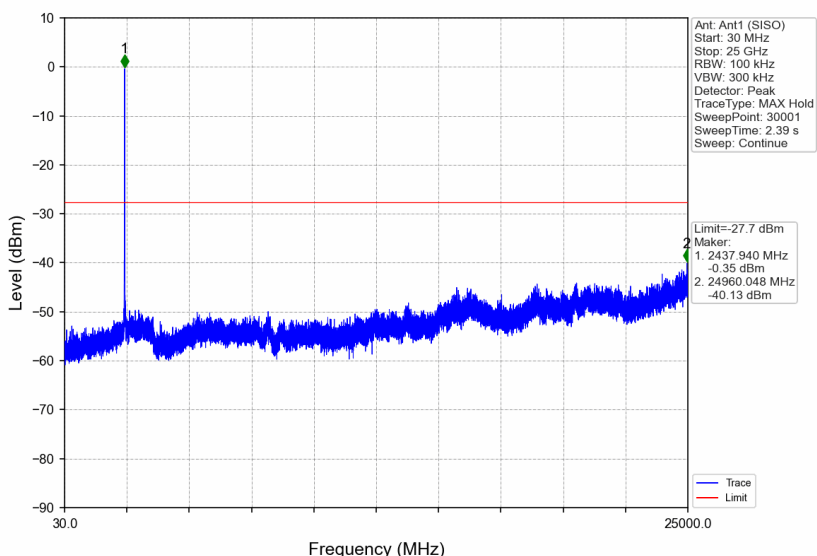
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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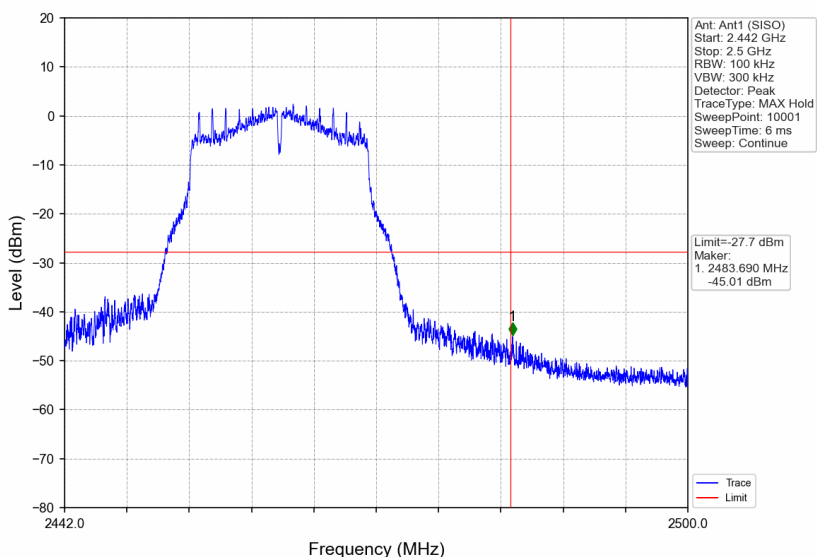
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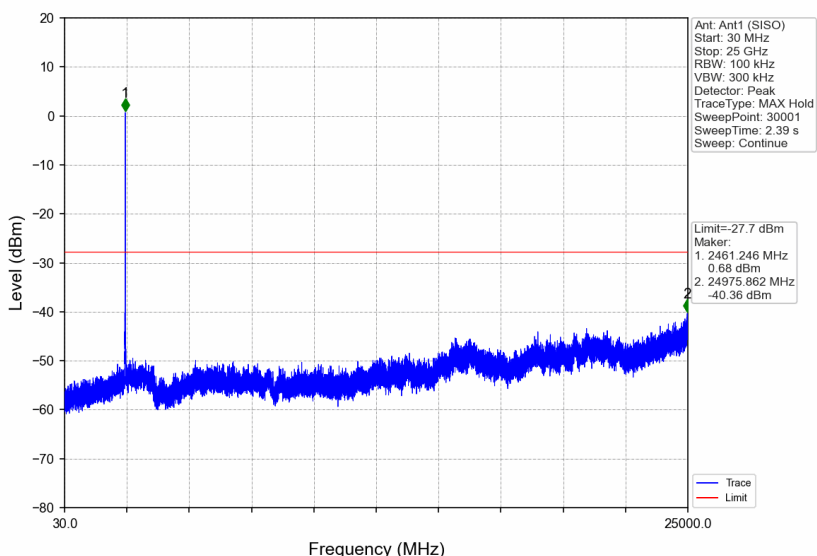
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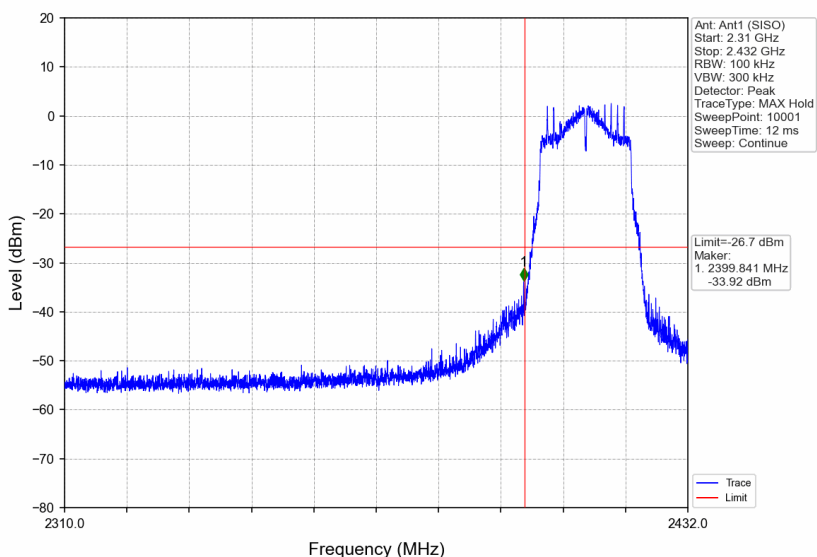
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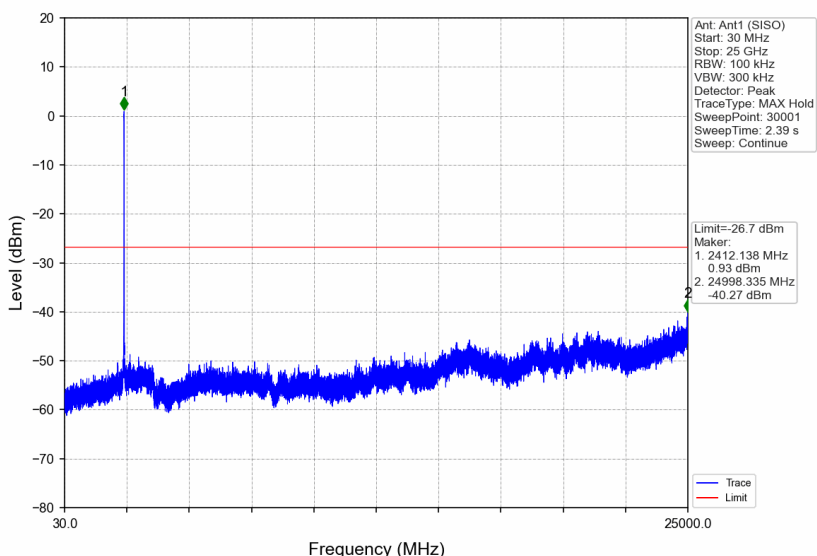
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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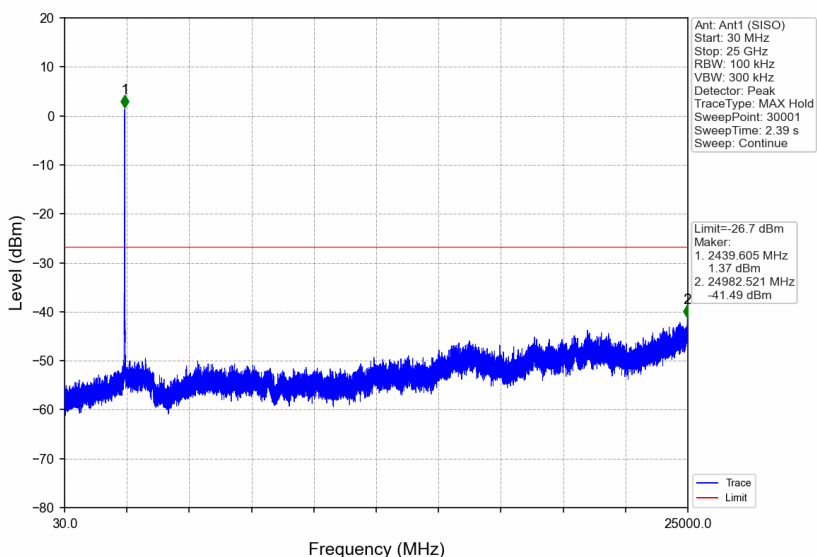
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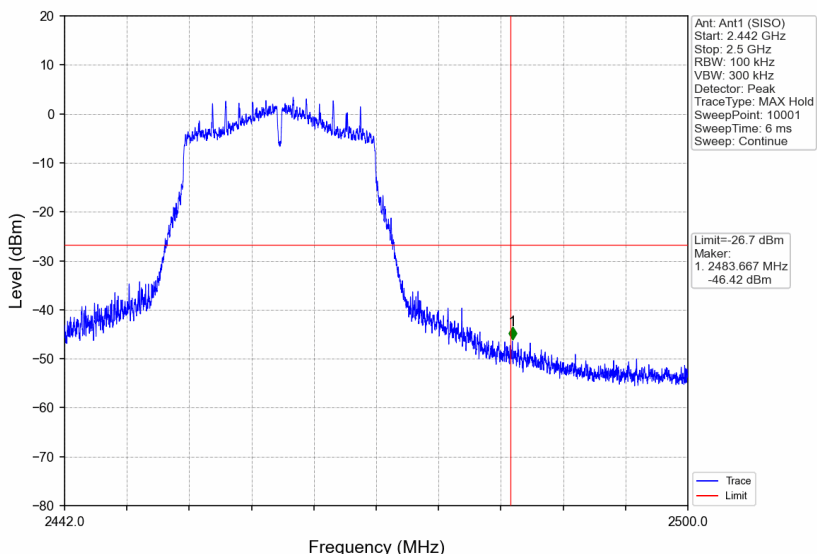
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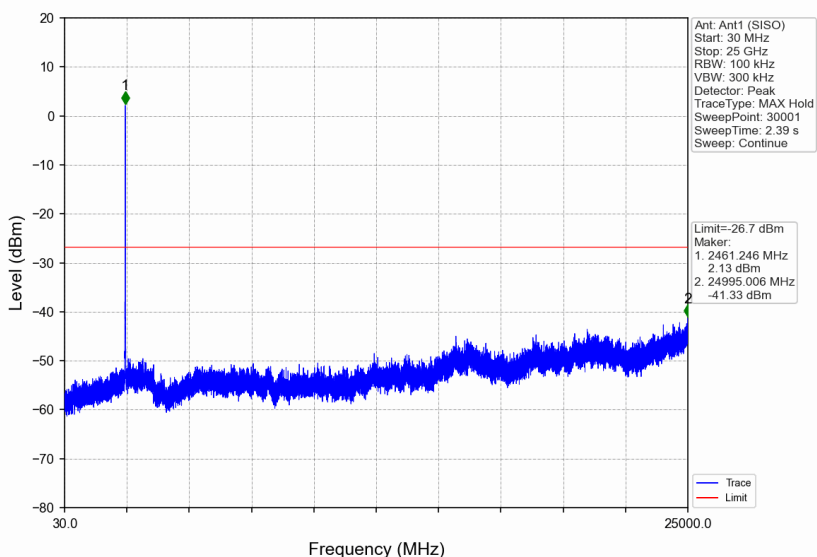
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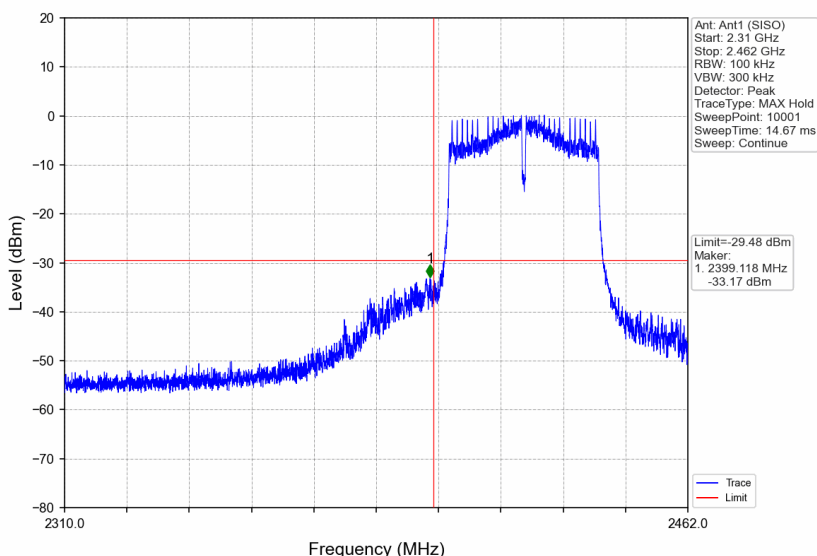
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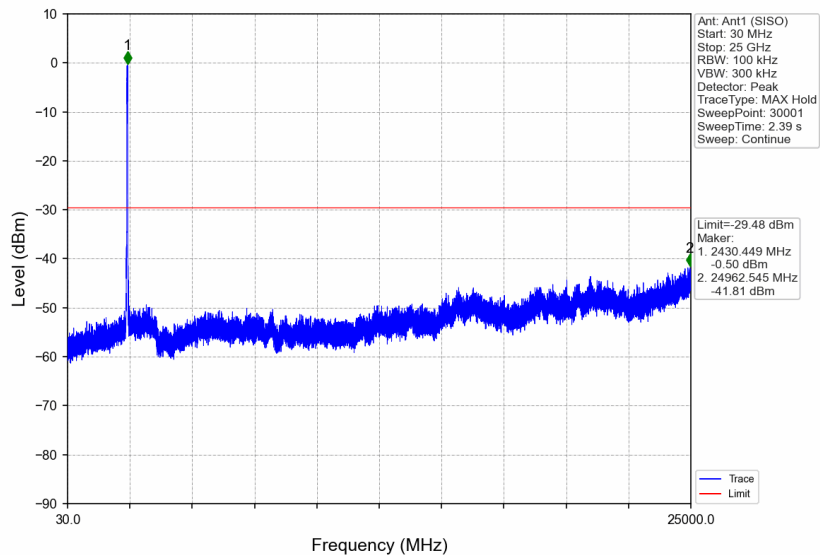
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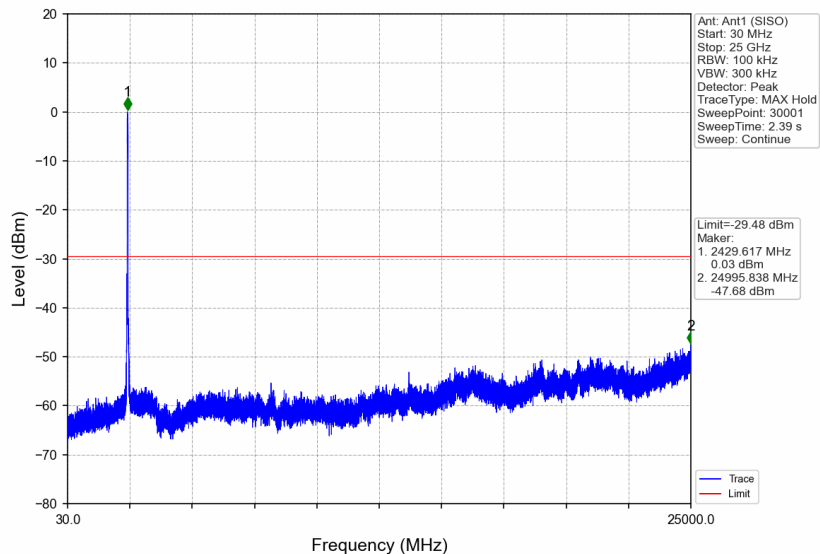
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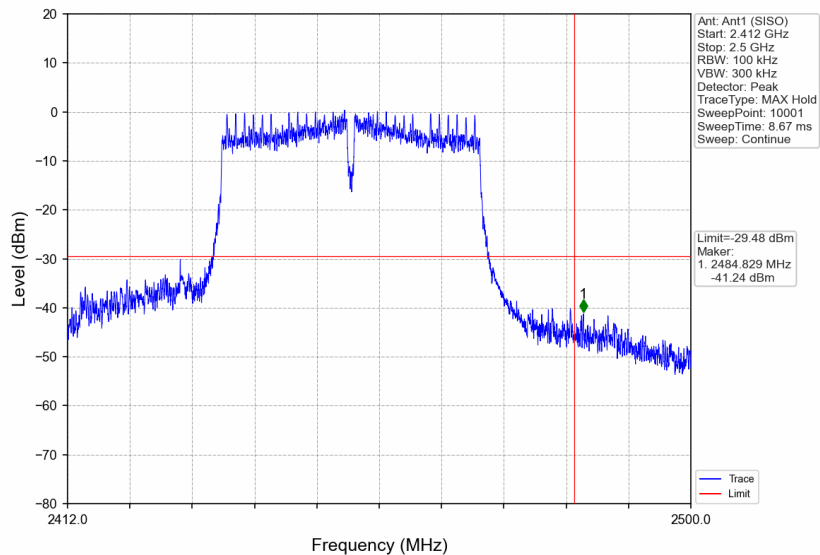
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