

## 10 Appendix

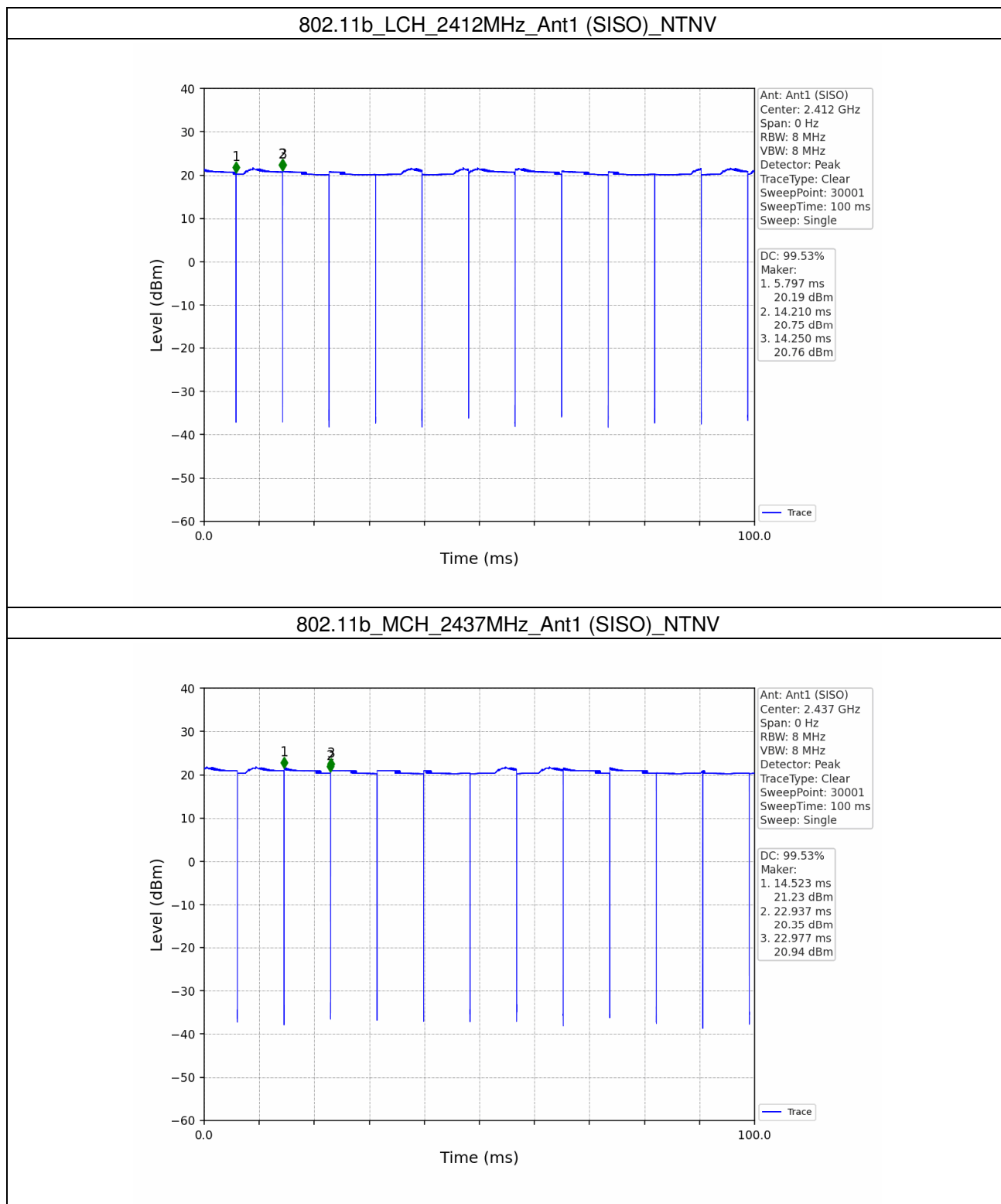
### 1. Duty Cycle

#### 1.1 Ant1

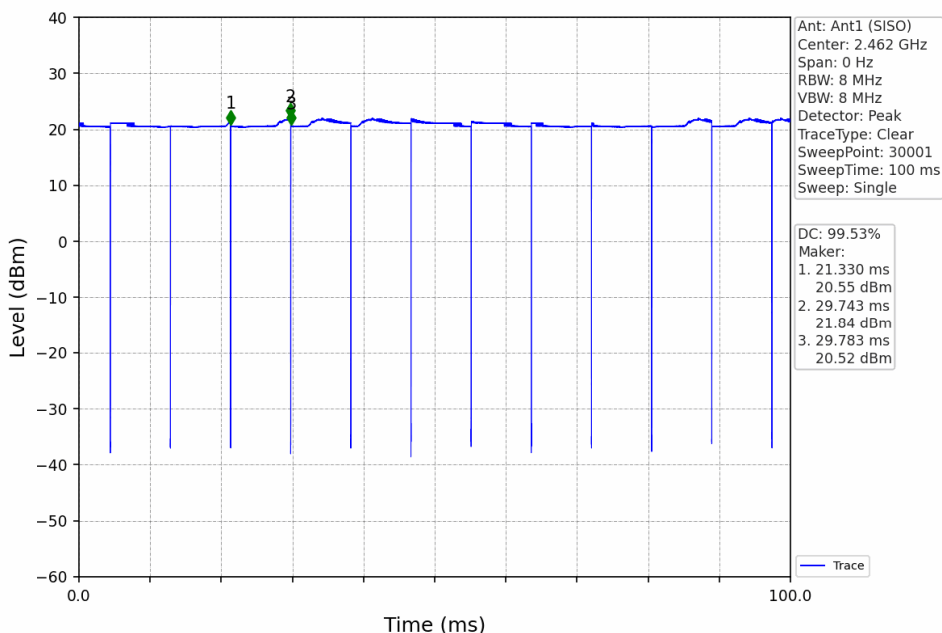
##### 1.1.1 Test Result

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	8.413	8.453	99.53	0.02	0.04
		2437	8.414	8.454	99.53	0.02	0.04
		2462	8.413	8.453	99.53	0.02	0.04
802.11g	SISO	2412	1.396	1.438	97.08	0.13	0.03
		2437	1.395	1.437	97.08	0.13	0.03
		2462	1.395	1.437	97.08	0.13	0.03
802.11n (HT20)	SISO	2412	1.308	1.349	96.96	0.13	0.03
		2437	1.308	1.349	96.96	0.13	0.03
		2462	1.307	1.349	96.89	0.14	0.03

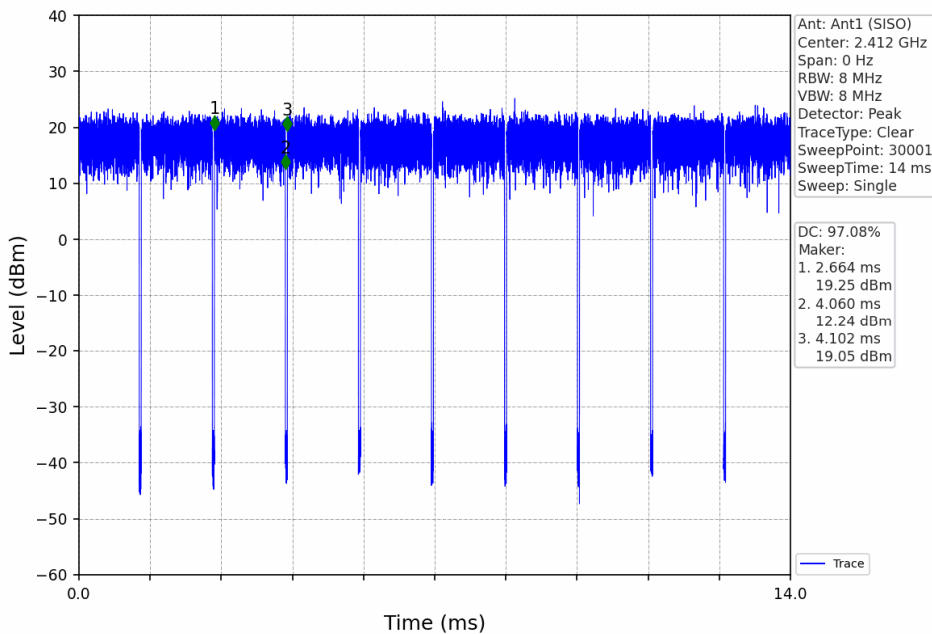
## 1.1.2 Test Graph



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

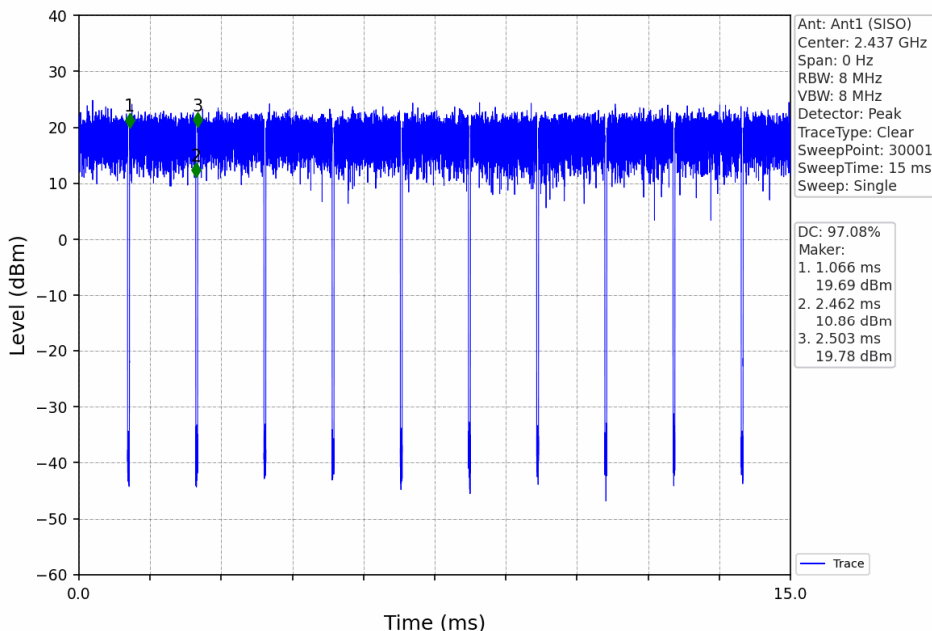


### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

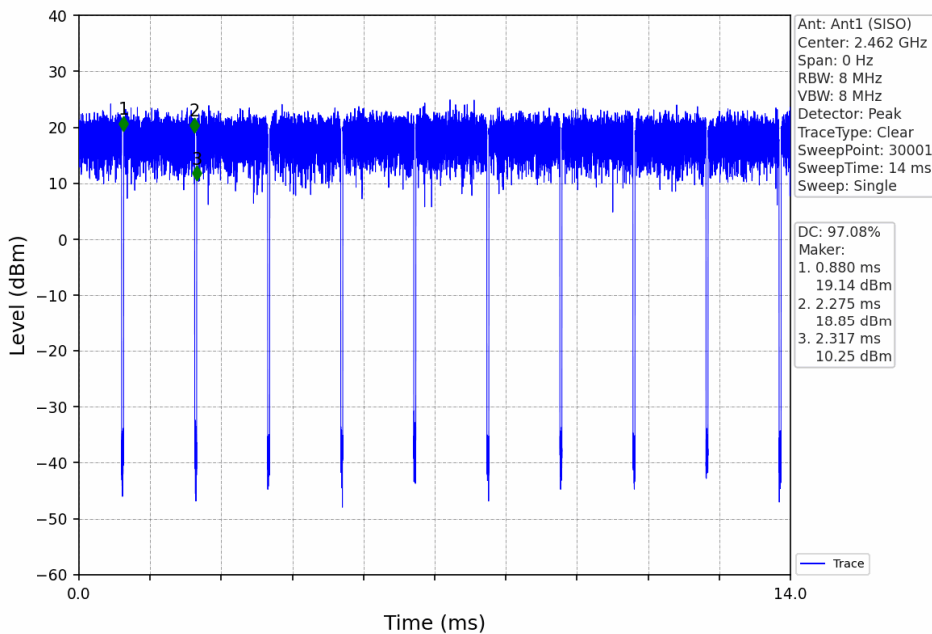


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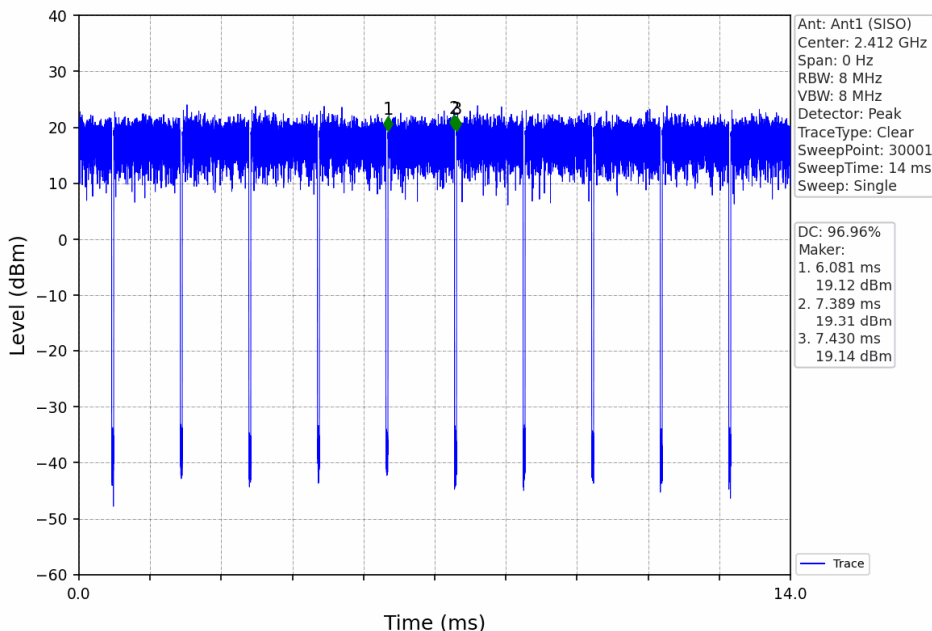
### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



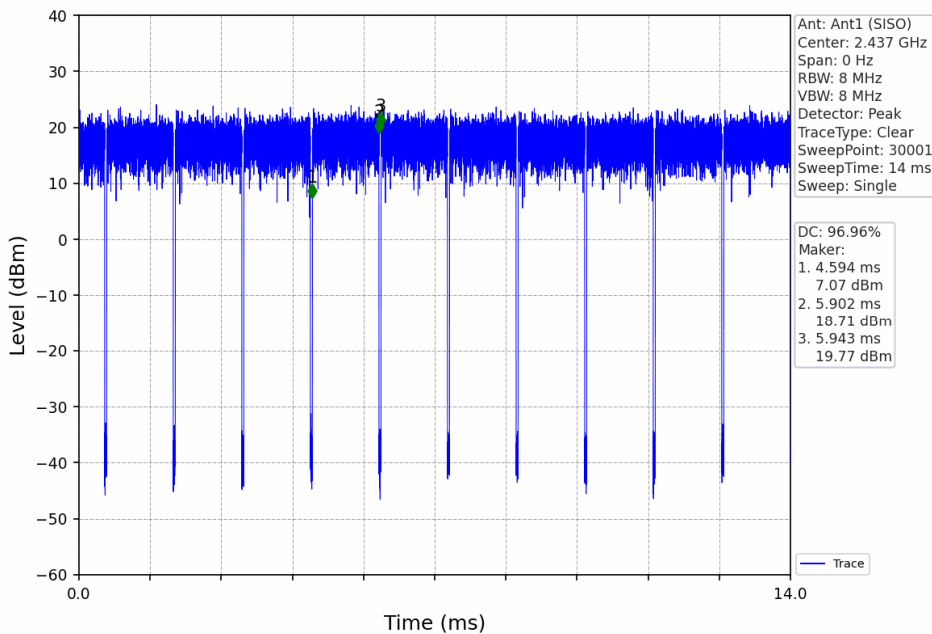
### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



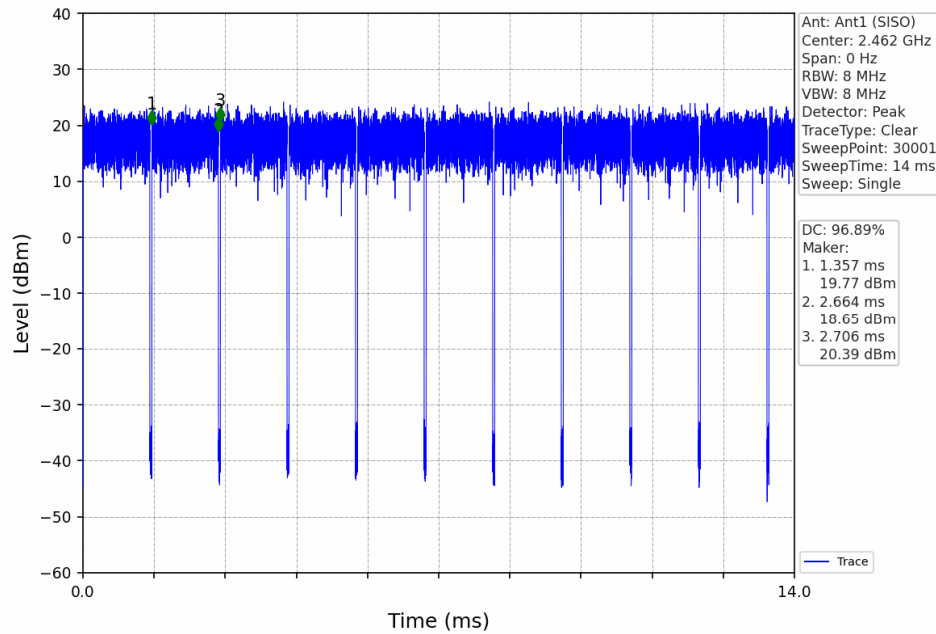
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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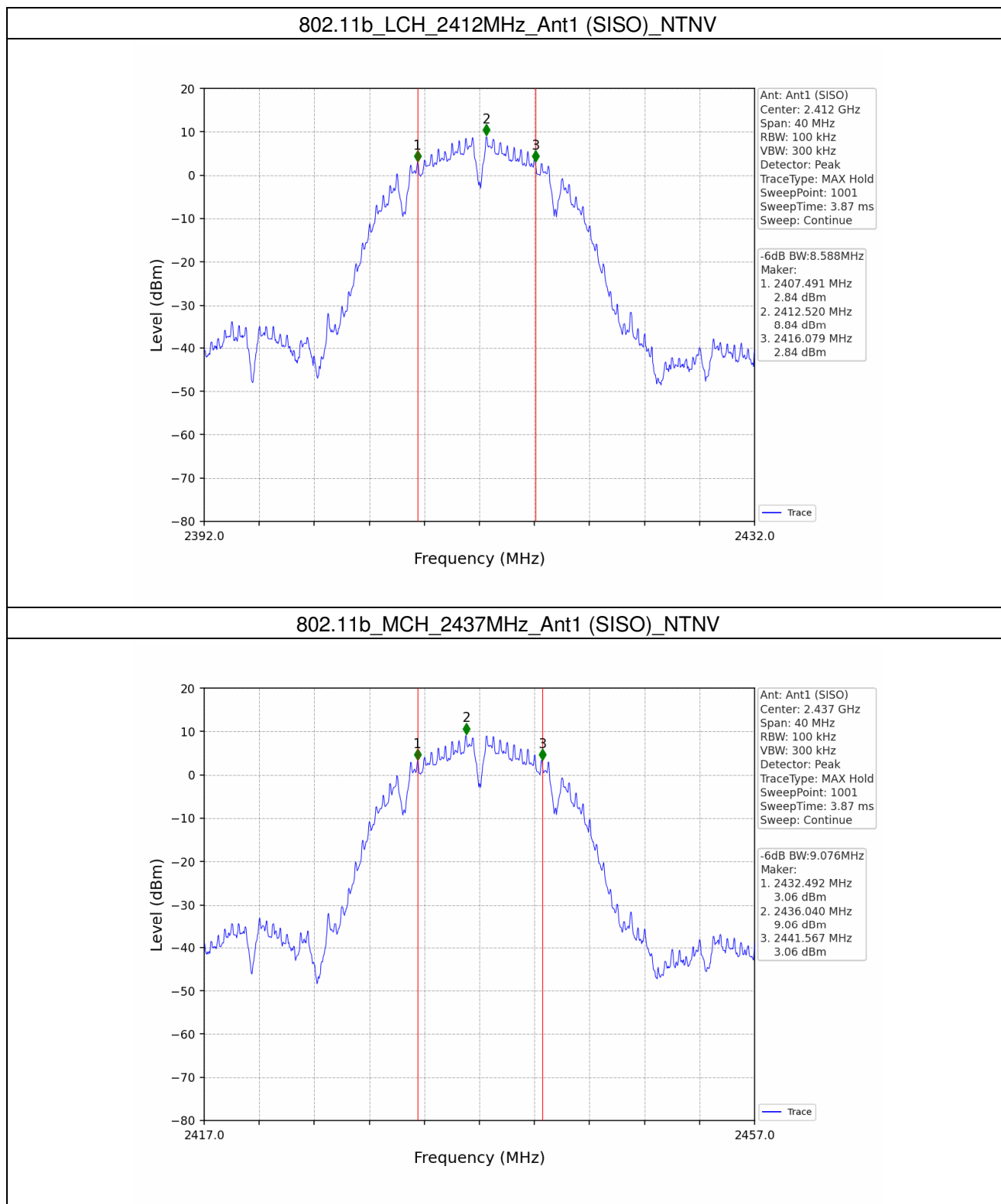
## 2. Bandwidth

### 2.1 6dB BW

#### 2.1.1 Test Result

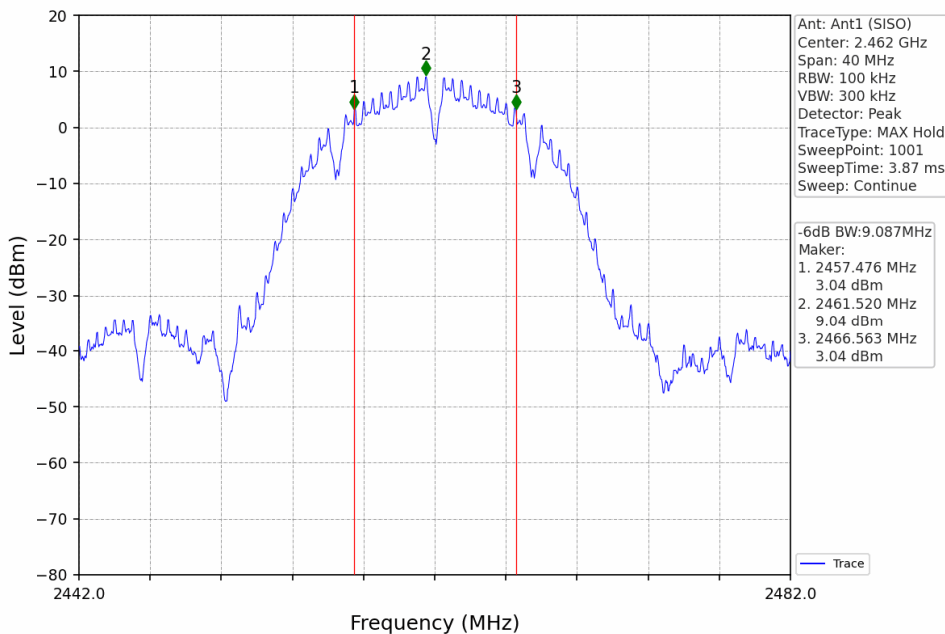
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.588	$\geq 0.5$	Pass
		2437	1	9.076	$\geq 0.5$	Pass
		2462	1	9.087	$\geq 0.5$	Pass
802.11g	SISO	2412	1	15.140	$\geq 0.5$	Pass
		2437	1	15.158	$\geq 0.5$	Pass
		2462	1	15.153	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	15.150	$\geq 0.5$	Pass
		2437	1	15.163	$\geq 0.5$	Pass
		2462	1	15.140	$\geq 0.5$	Pass

## 2.2.2 Test Graph

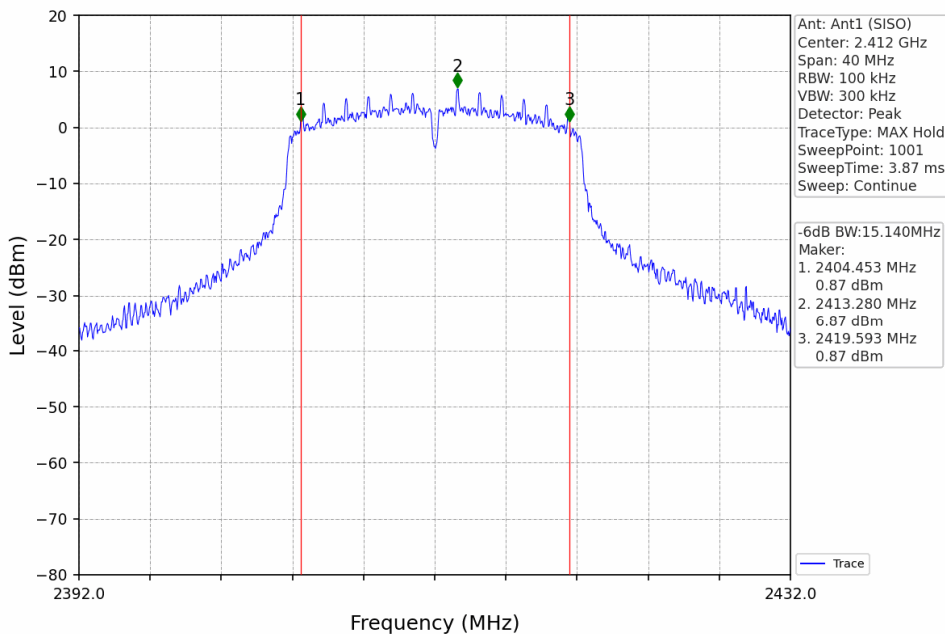




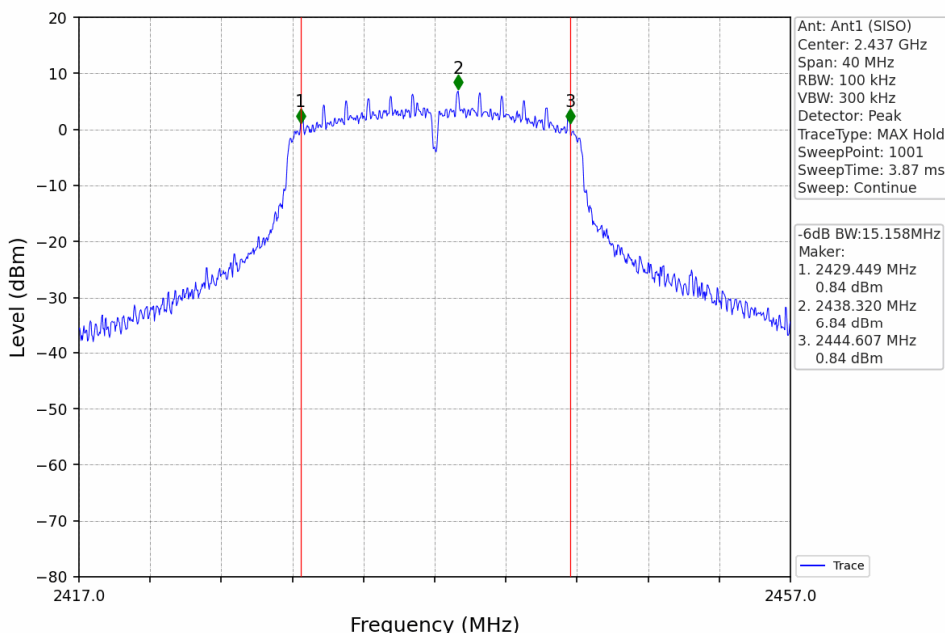
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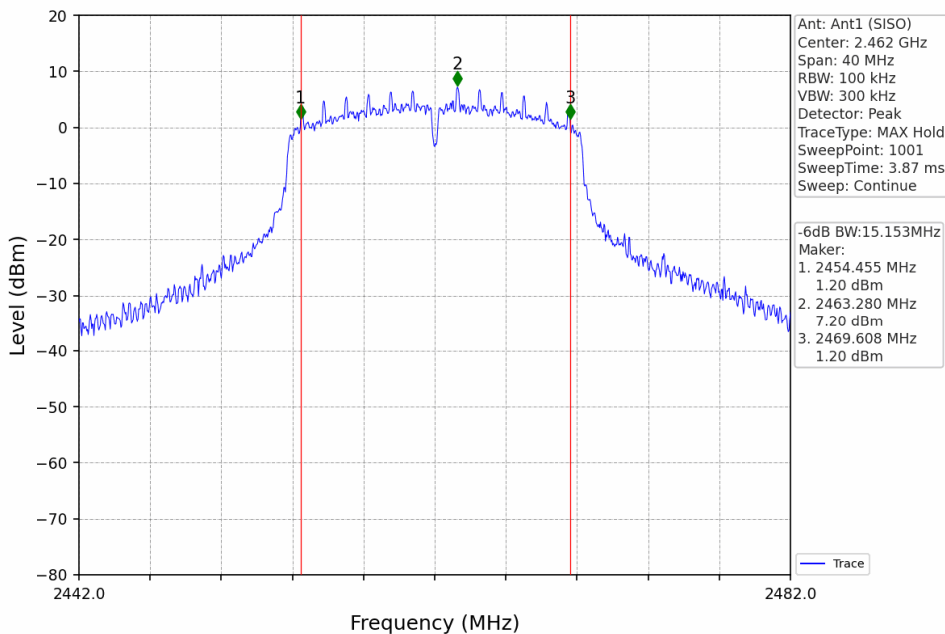
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



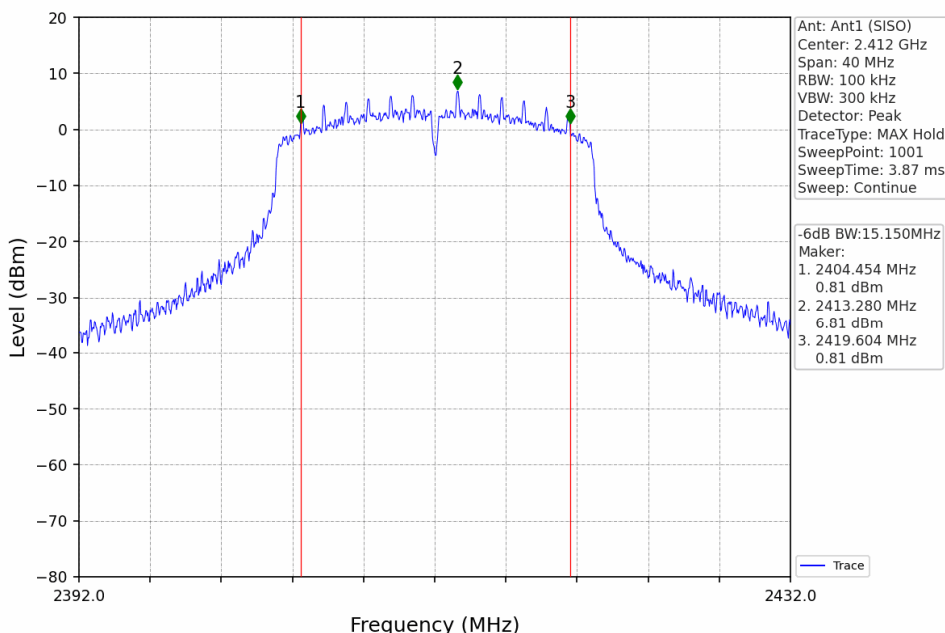
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



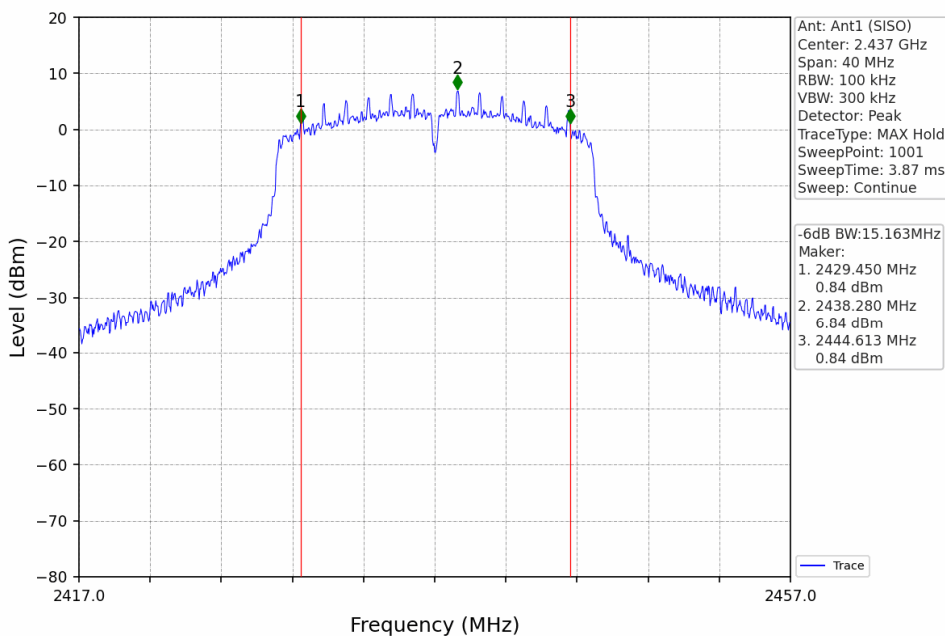
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



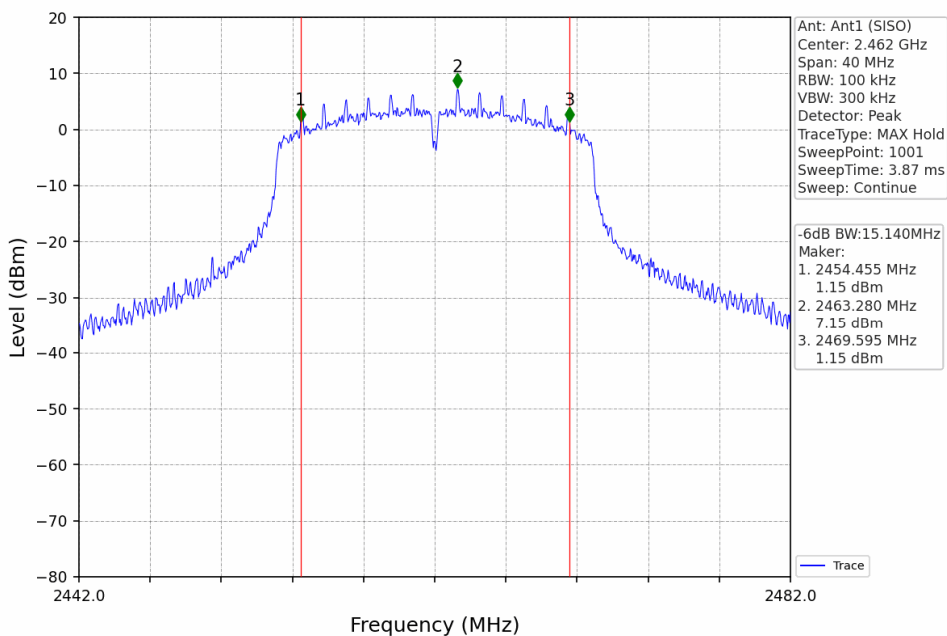
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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 AV Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	16.94	<=30	Pass
		2437	17.14	<=30	Pass
		2462	17.26	<=30	Pass
802.11g	SISO	2412	16.88	<=30	Pass
		2437	17.00	<=30	Pass
		2462	17.24	<=30	Pass
802.11n (HT20)	SISO	2412	16.79	<=30	Pass
		2437	16.97	<=30	Pass
		2462	16.99	<=30	Pass

Note1: Antenna Gain: Ant1: 1.50dBi;



#### 4. Maximum Power Spectral Density

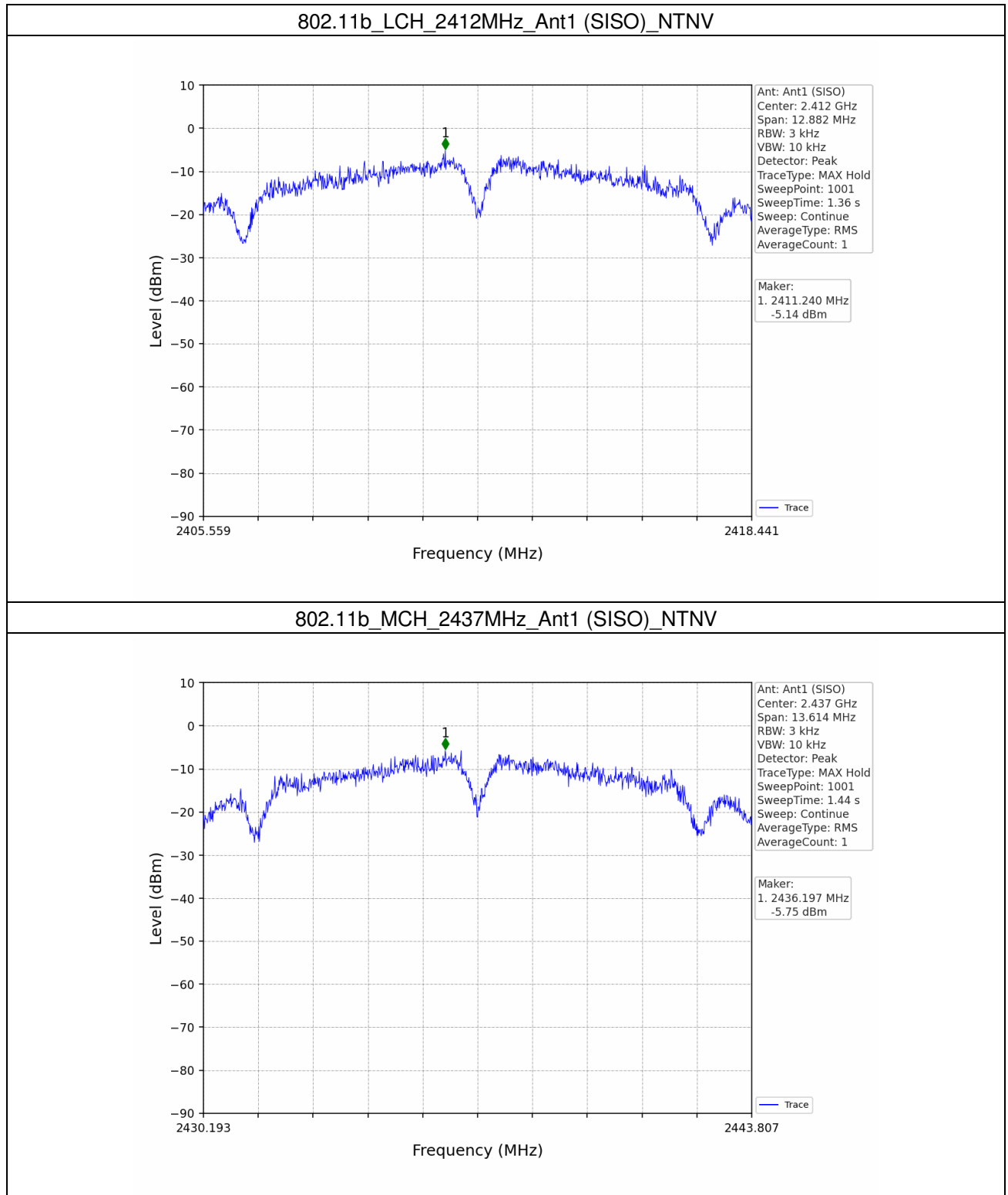
##### 4.1 PSD

##### 4.1.1 Test Result

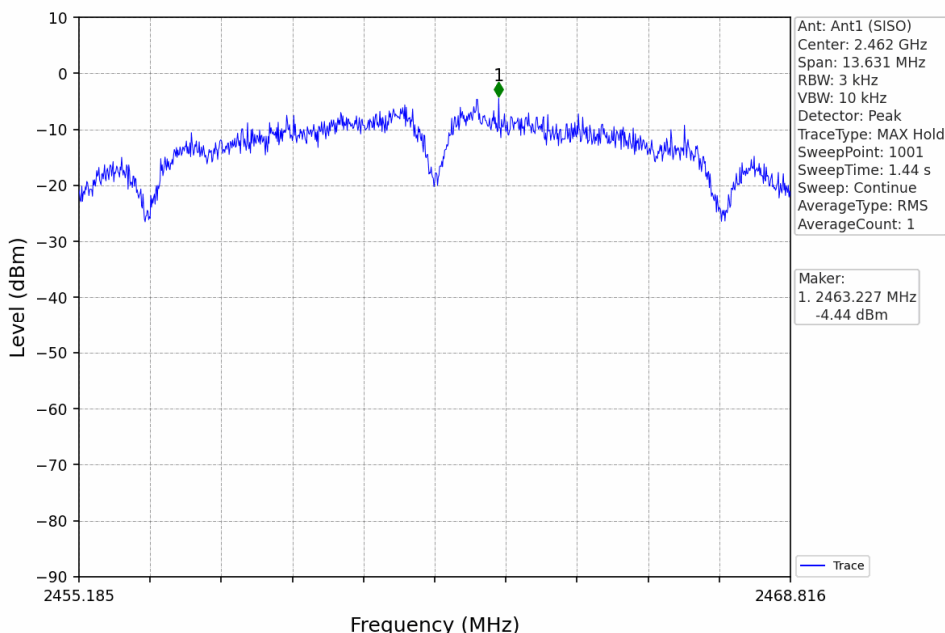
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-5.14	<=8	Pass
		2437	-5.75	<=8	Pass
		2462	-4.44	<=8	Pass
802.11g	SISO	2412	-8.09	<=8	Pass
		2437	-7.17	<=8	Pass
		2462	-6.90	<=8	Pass
802.11n (HT20)	SISO	2412	-7.68	<=8	Pass
		2437	-7.78	<=8	Pass
		2462	-7.59	<=8	Pass

Note1: Antenna Gain: Ant1: 1.50dBi;

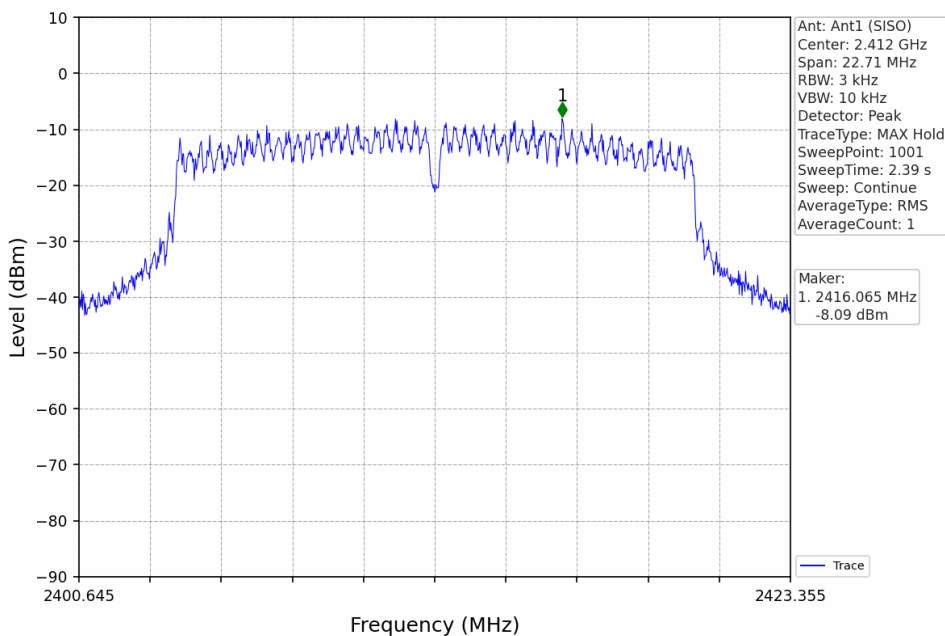
## 4.1.2 Test Graph



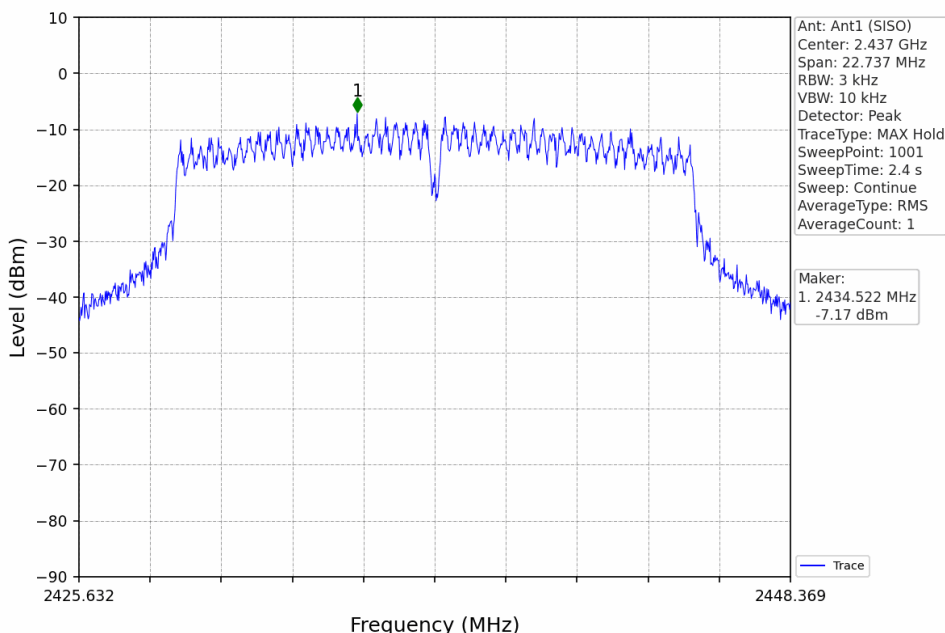
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



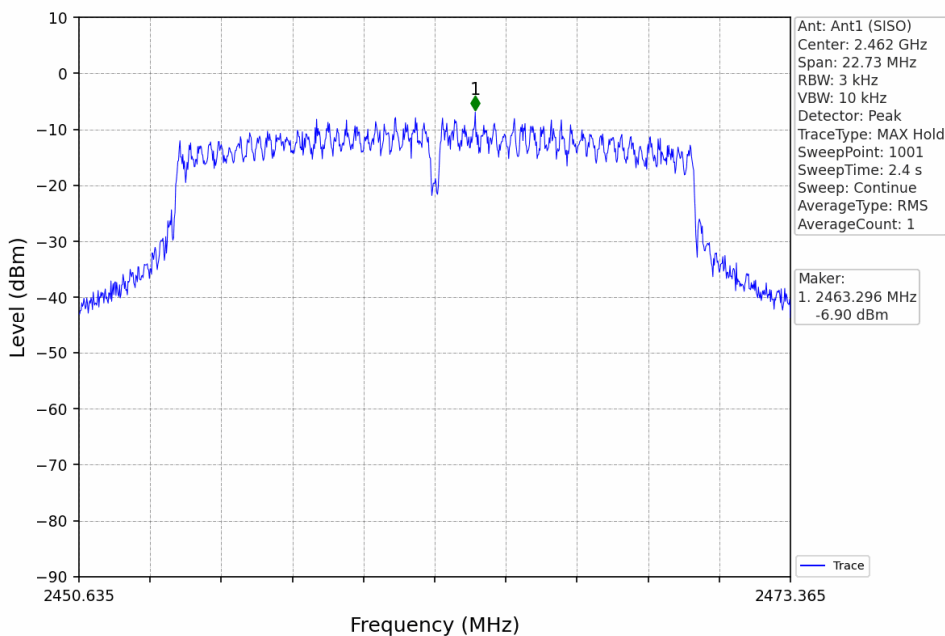
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



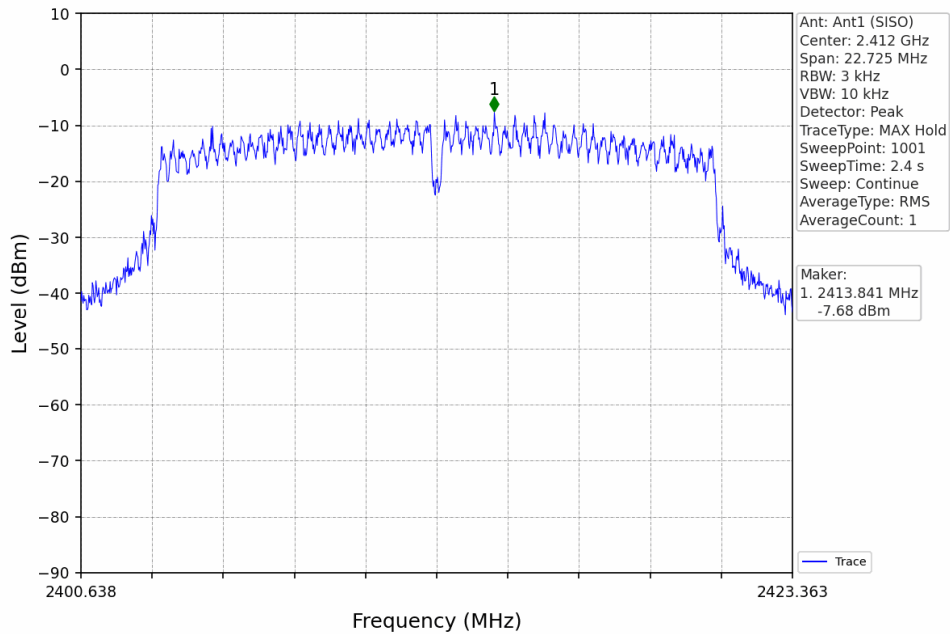
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



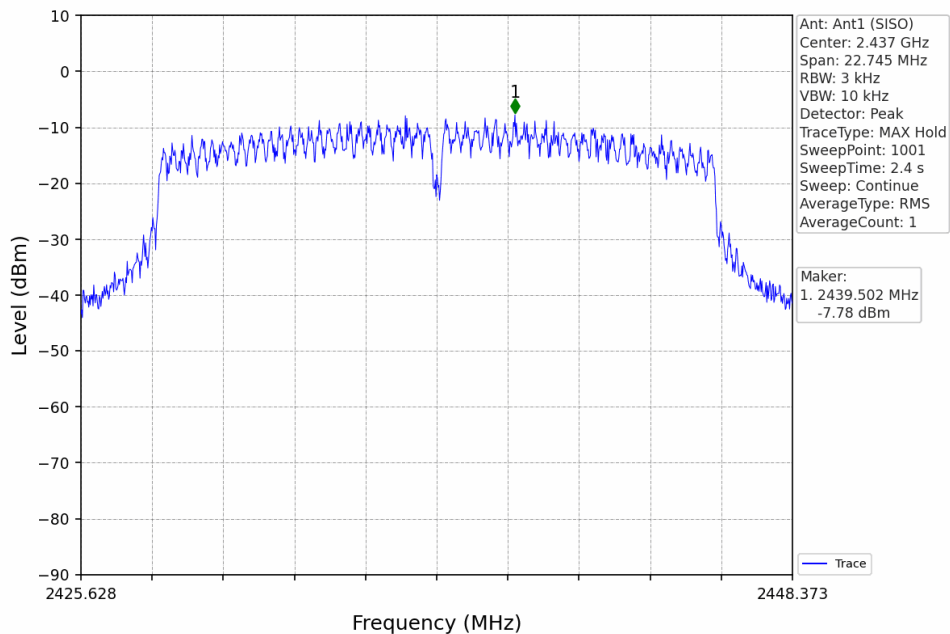
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

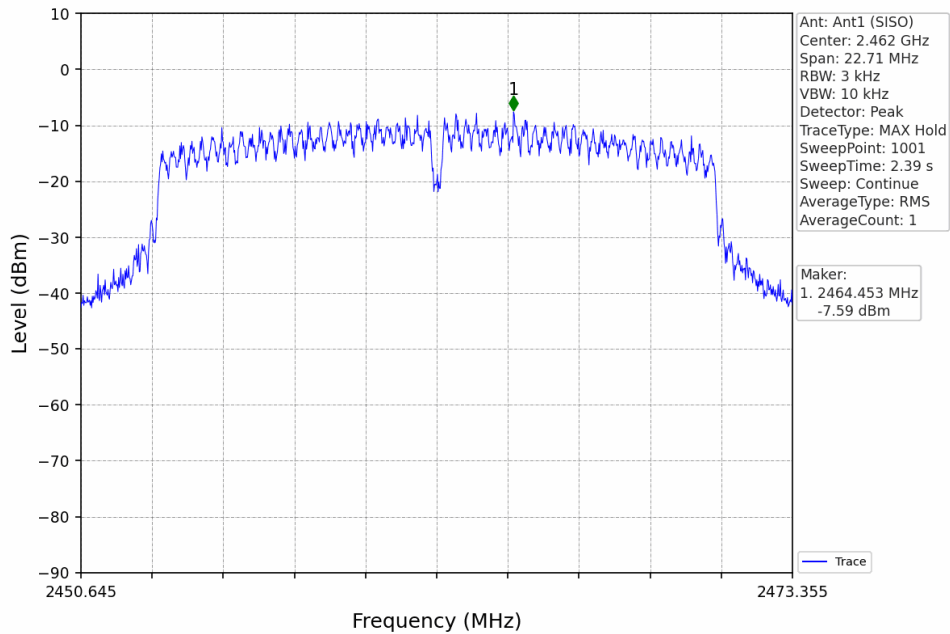


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV





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



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

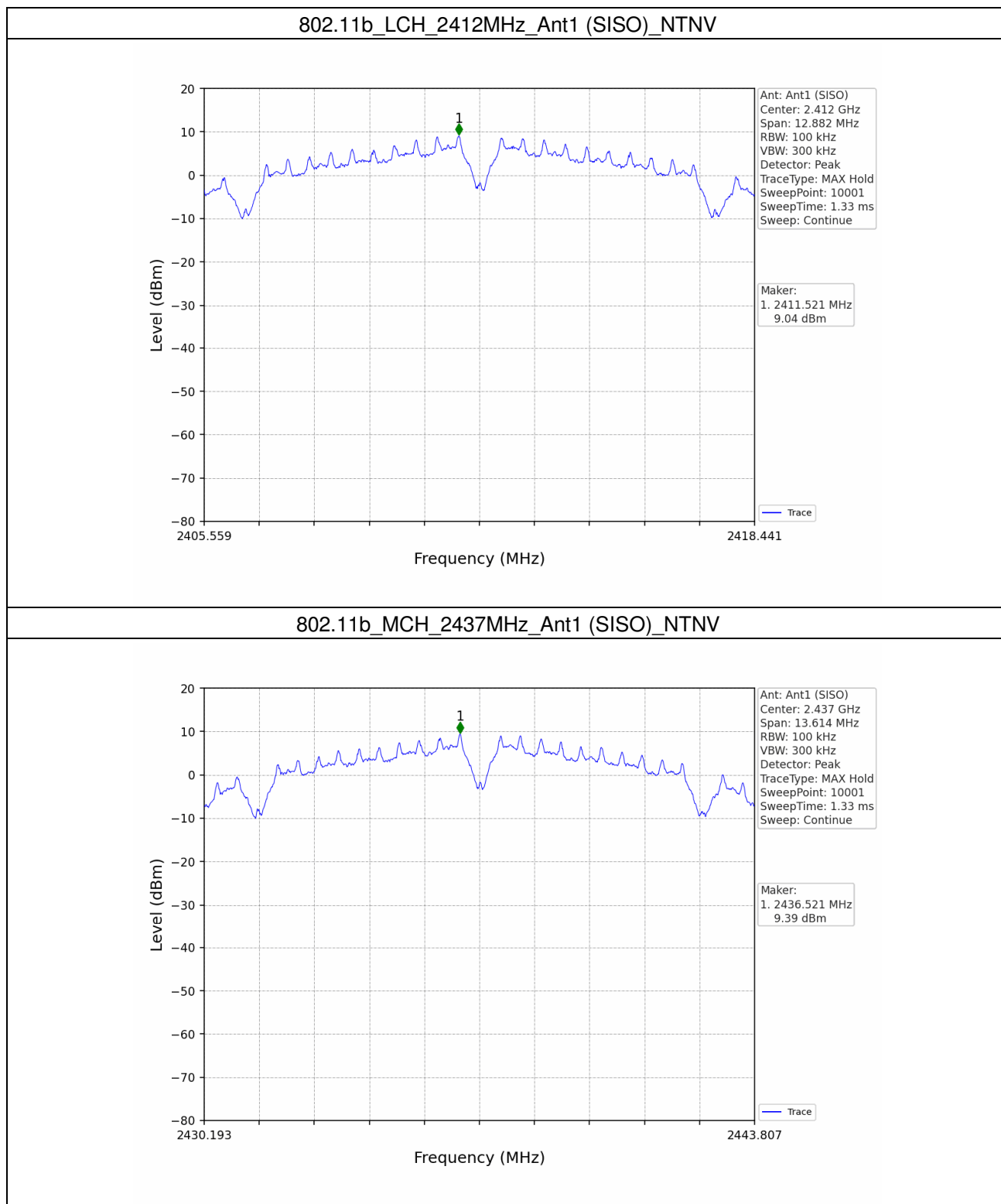
### 5.1 Ref

#### 5.1.1 Test Result

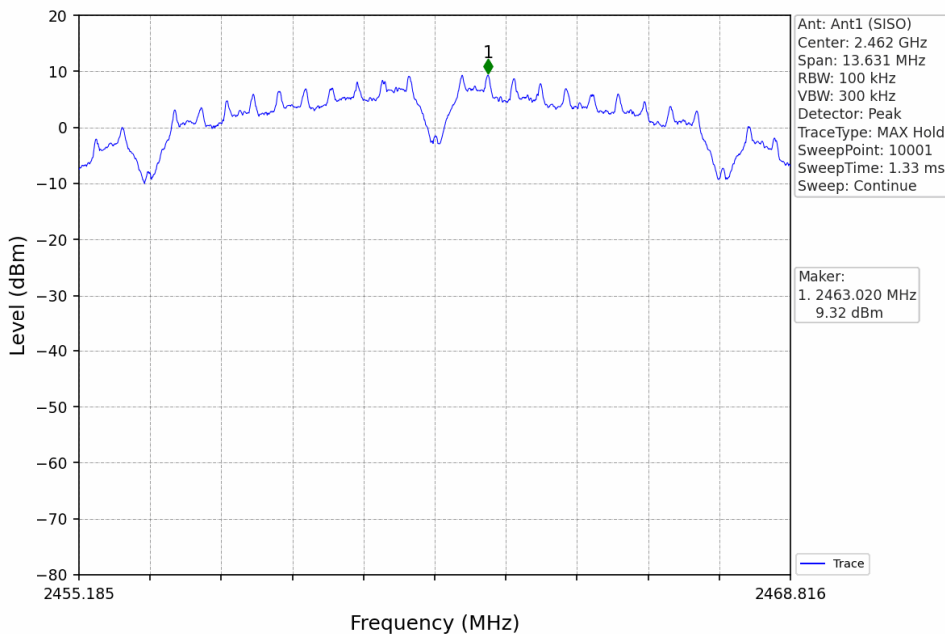
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	9.04
		2437	1	9.39
		2462	1	9.32
802.11g	SISO	2412	1	6.71
		2437	1	6.97
		2462	1	6.69
802.11n (HT20)	SISO	2412	1	6.88
		2437	1	7.03
		2462	1	6.35

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.

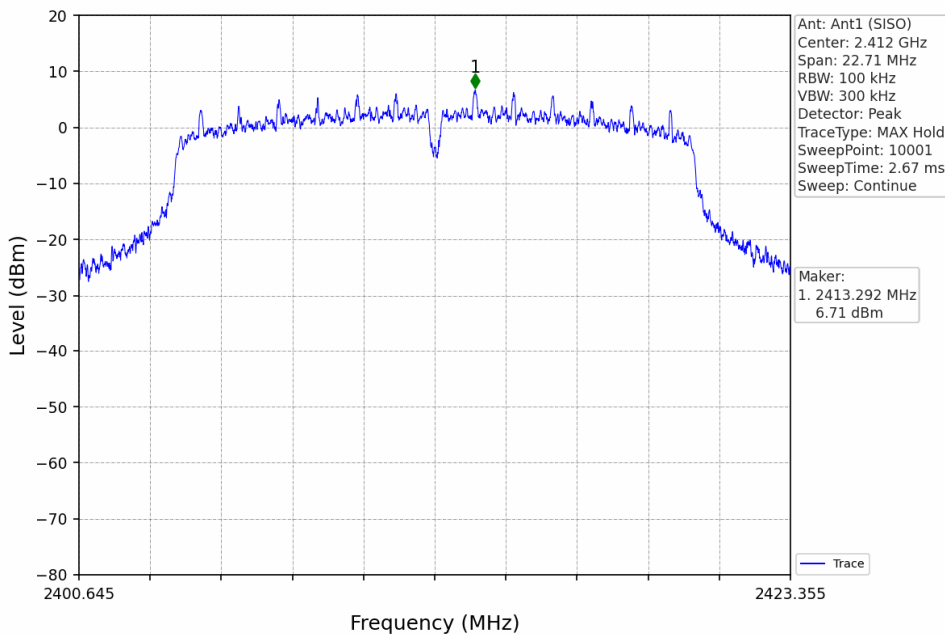
## 5.1.2 Test Graph



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



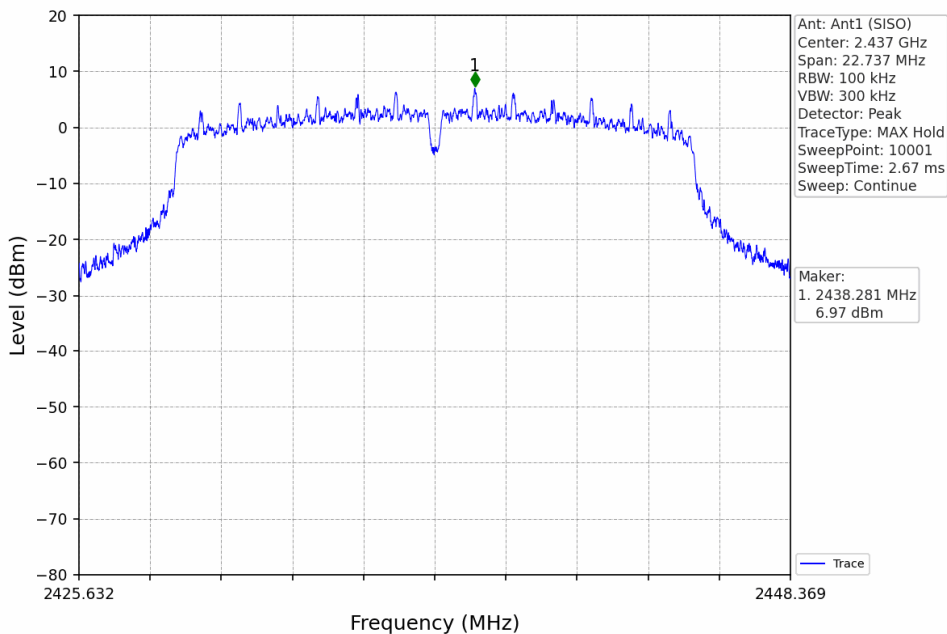
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



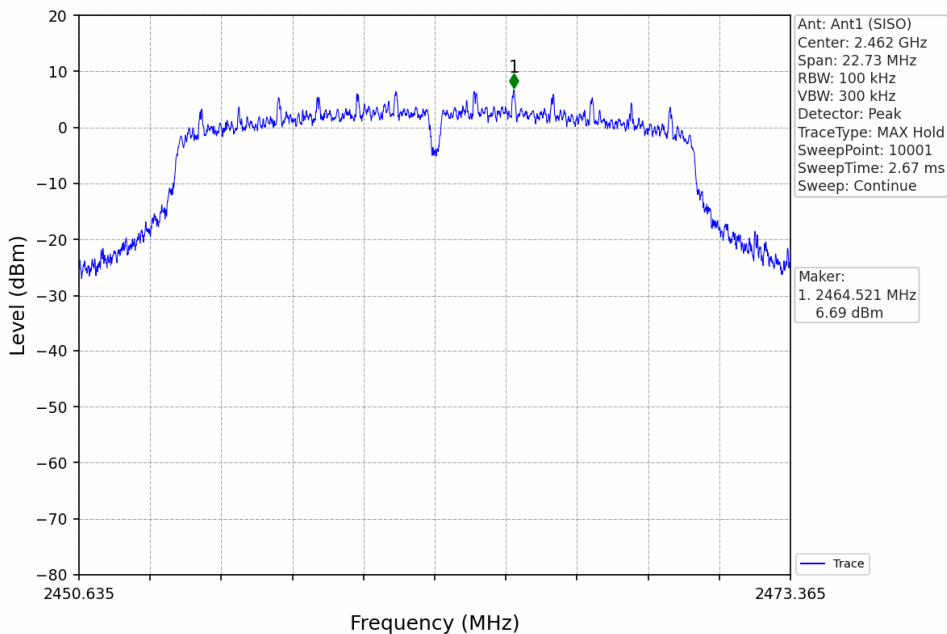
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

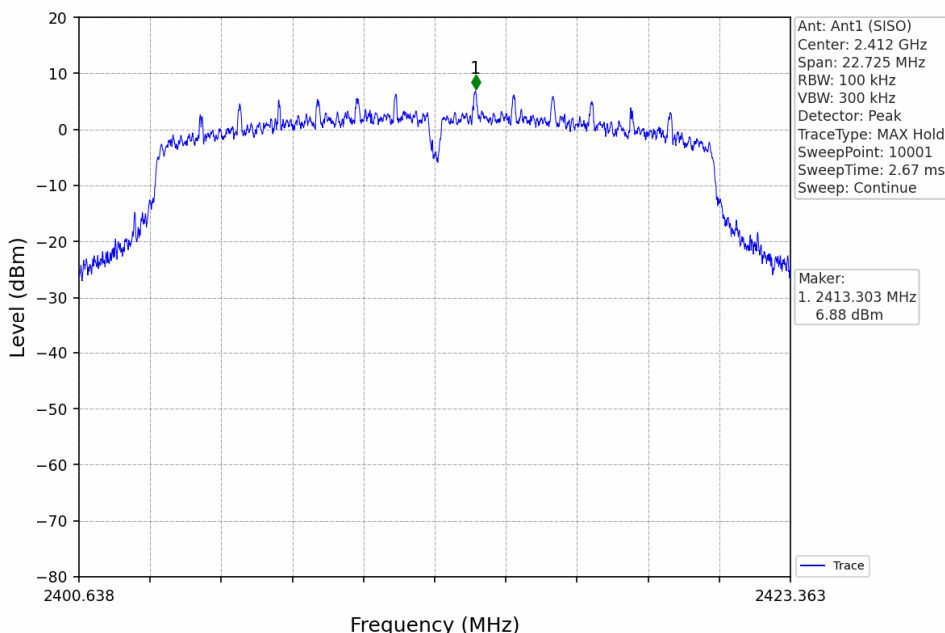


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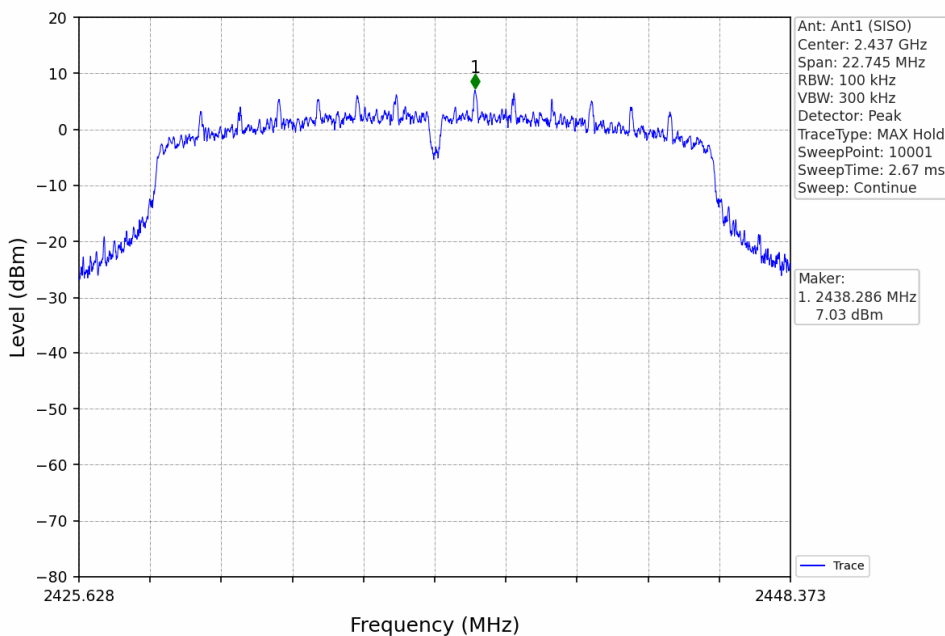
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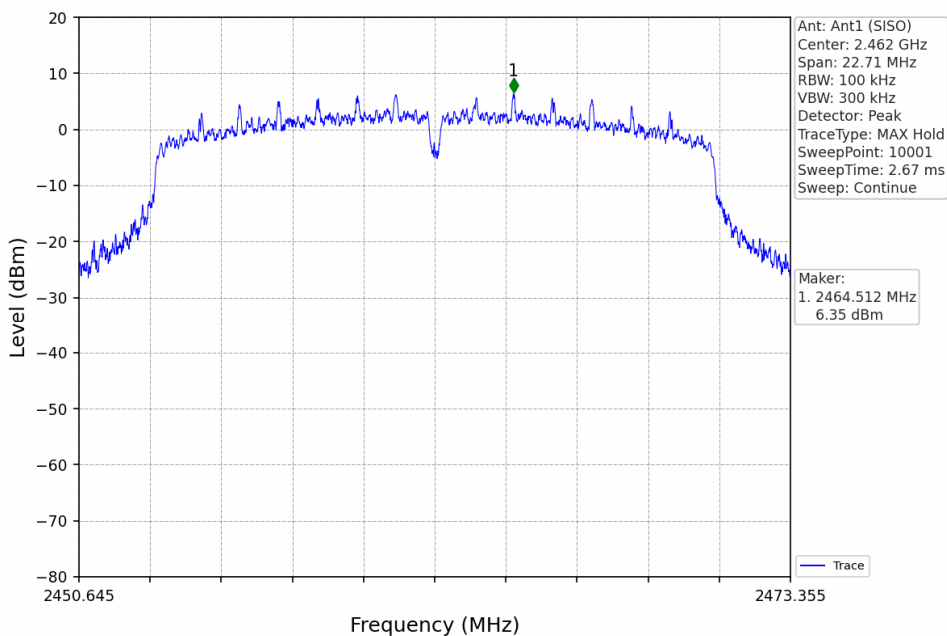
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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



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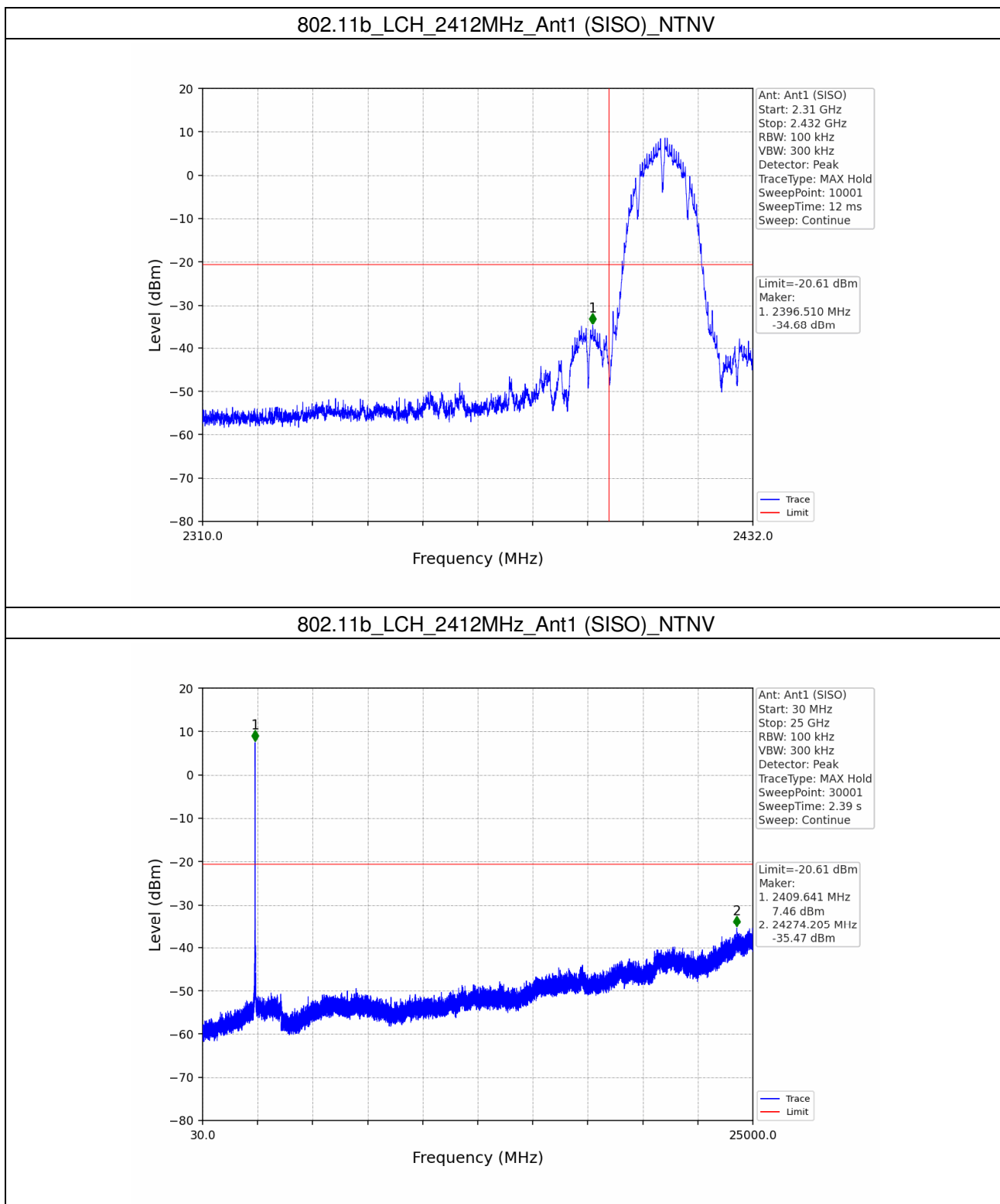
## 5.2 CSE

## 5.2.1 Test Result

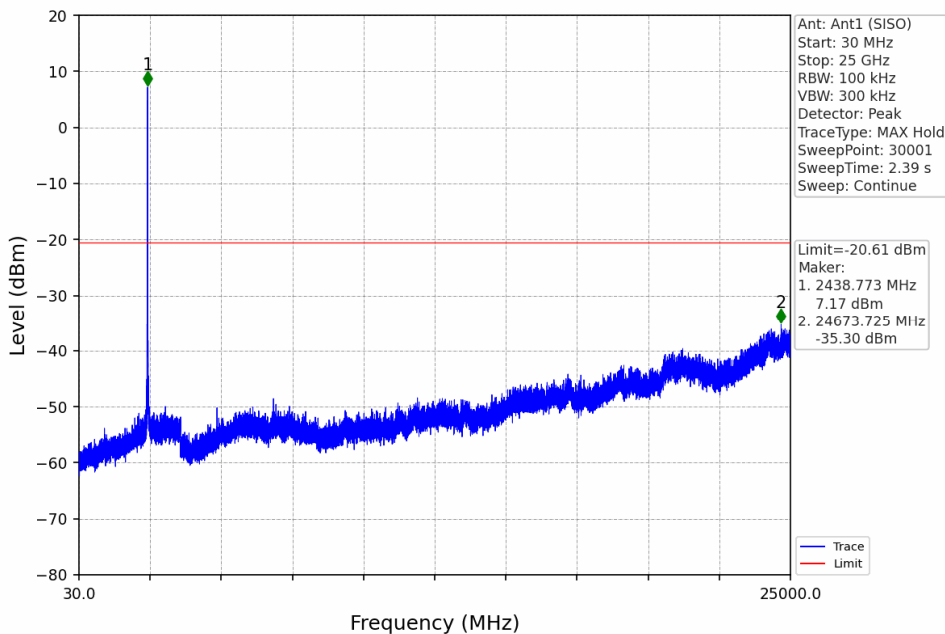
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.39	-20.61	Pass
		2437	1	9.39	-20.61	Pass
		2462	1	9.39	-20.61	Pass
802.11g	SISO	2412	1	6.97	-23.03	Pass
		2437	1	6.97	-23.03	Pass
		2462	1	6.97	-23.03	Pass
802.11n (HT20)	SISO	2412	1	7.03	-22.97	Pass
		2437	1	7.03	-22.97	Pass
		2462	1	7.03	-22.97	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.

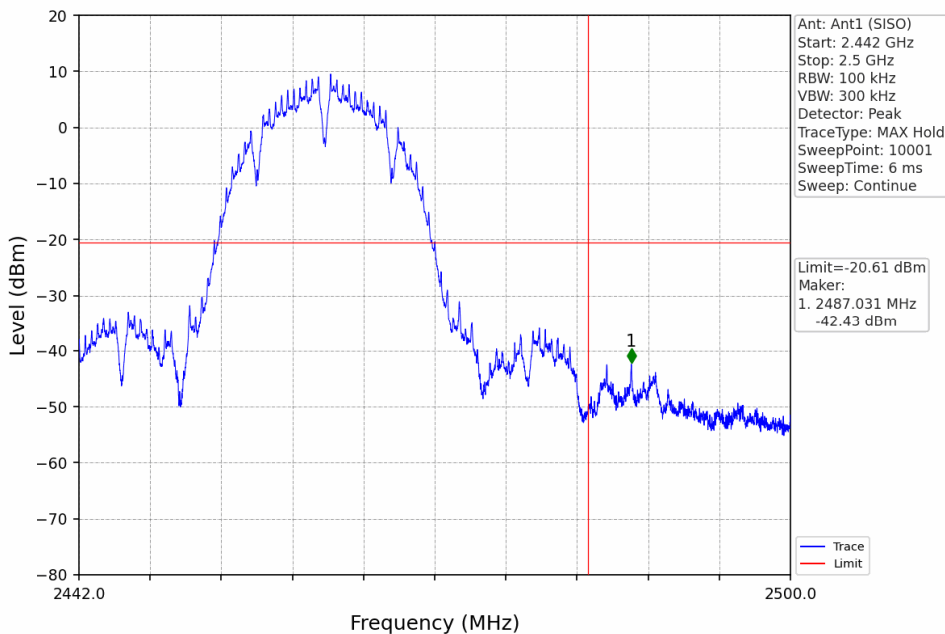
### 5.2.2 Test Graph



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

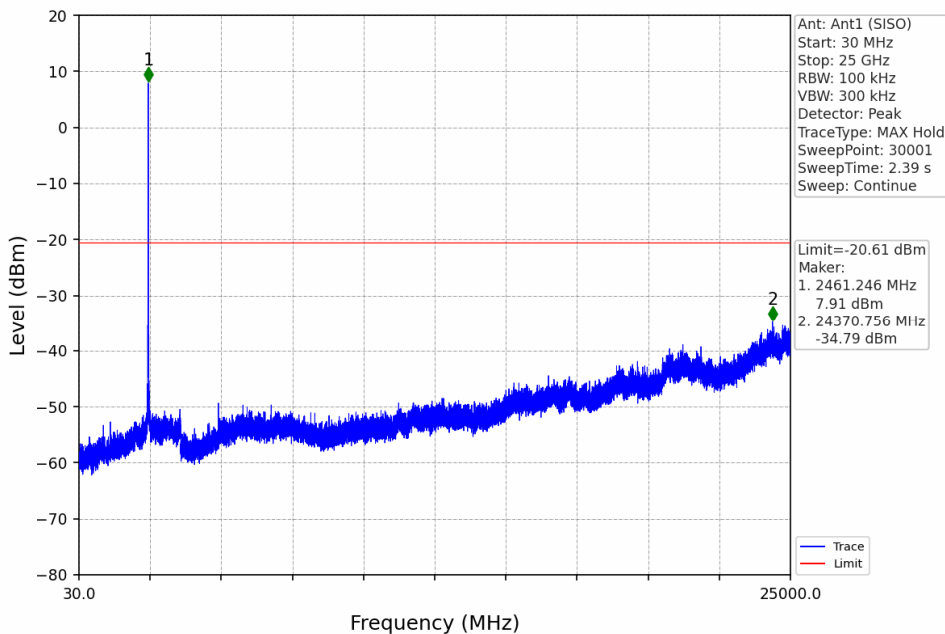


### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

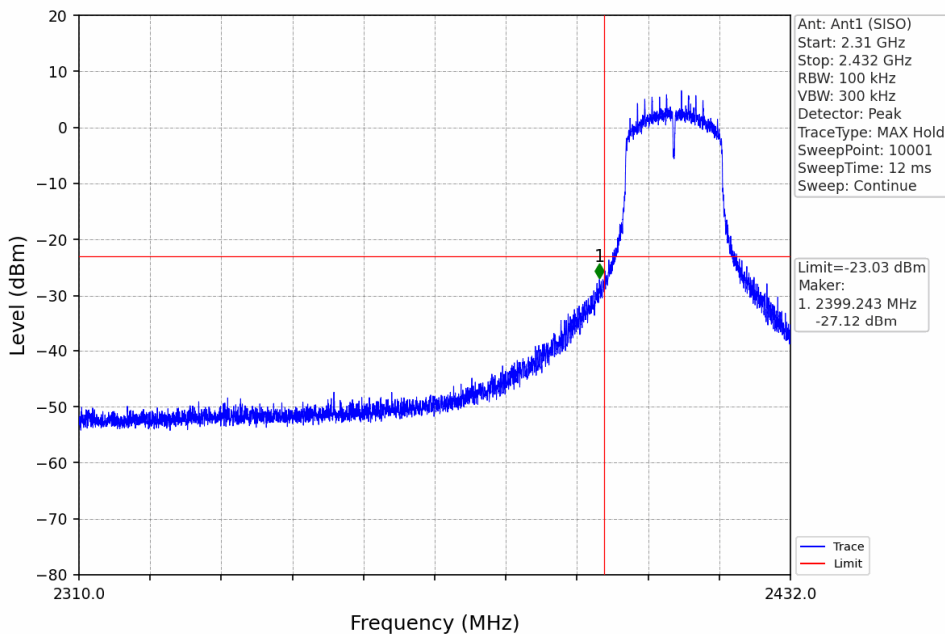




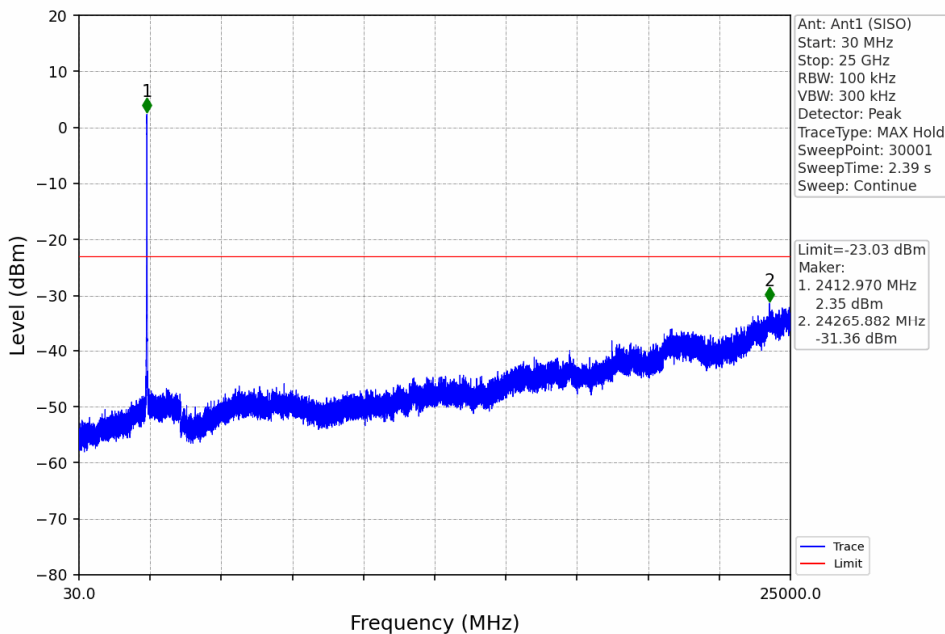
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



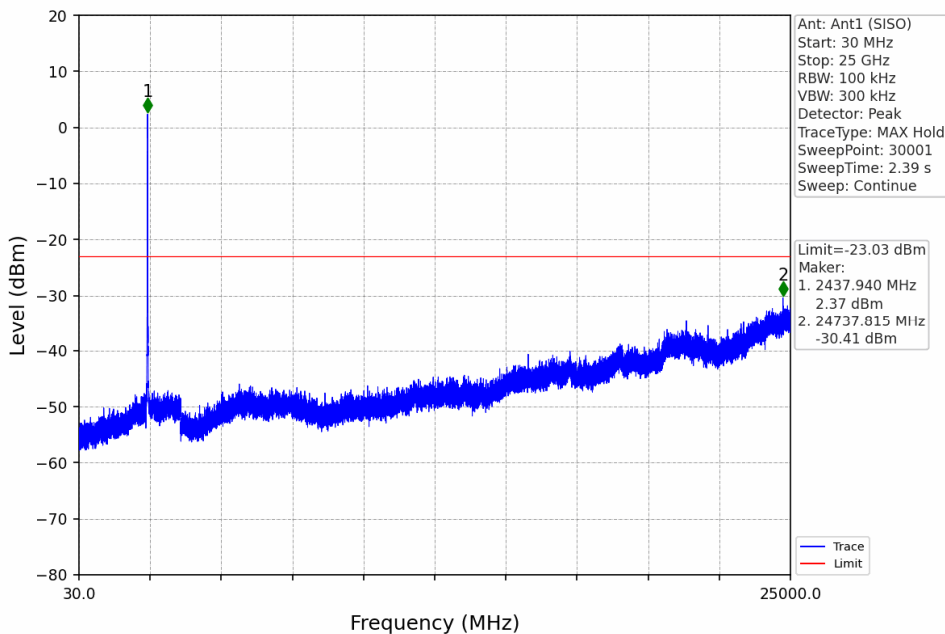
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



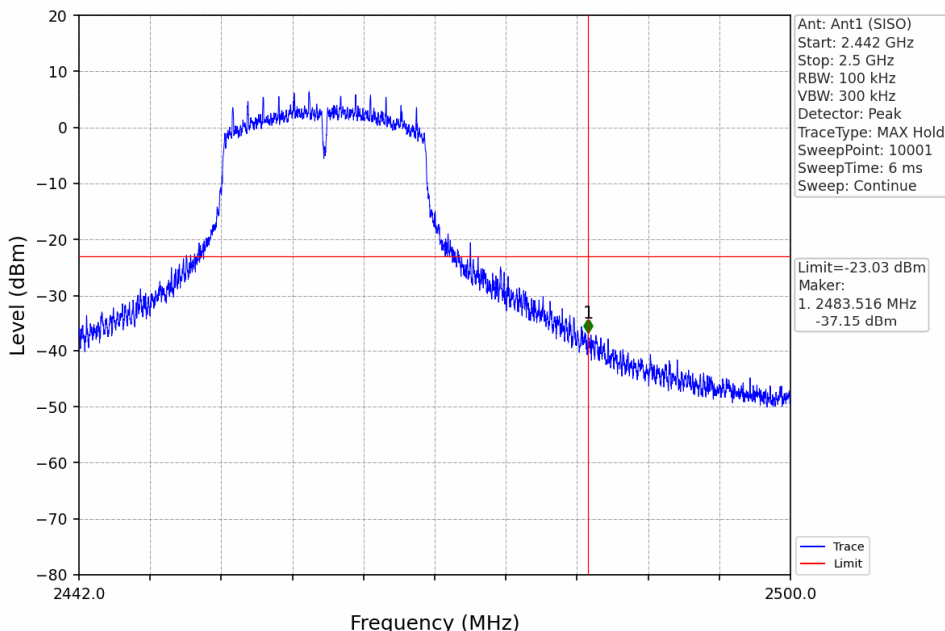
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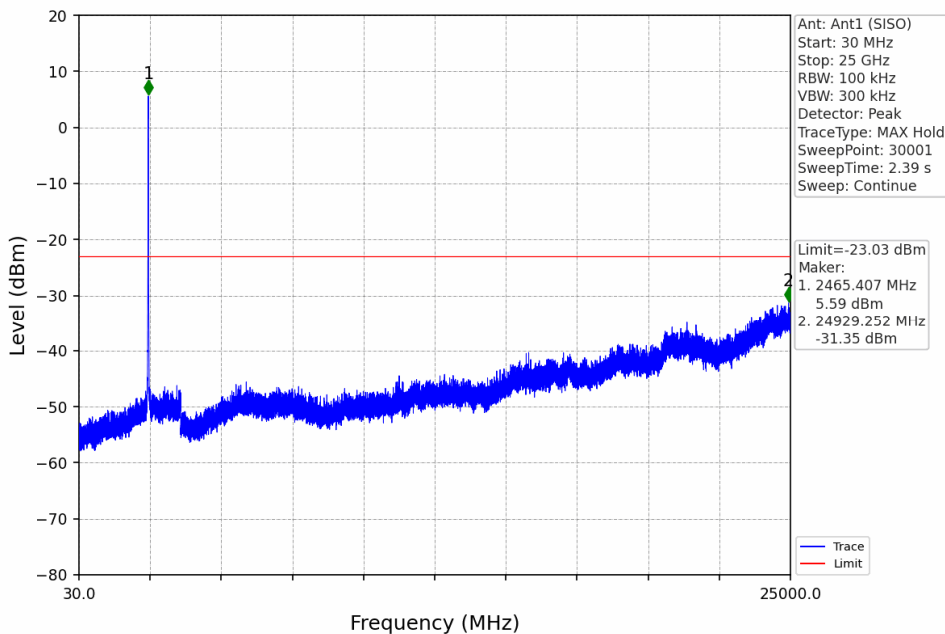
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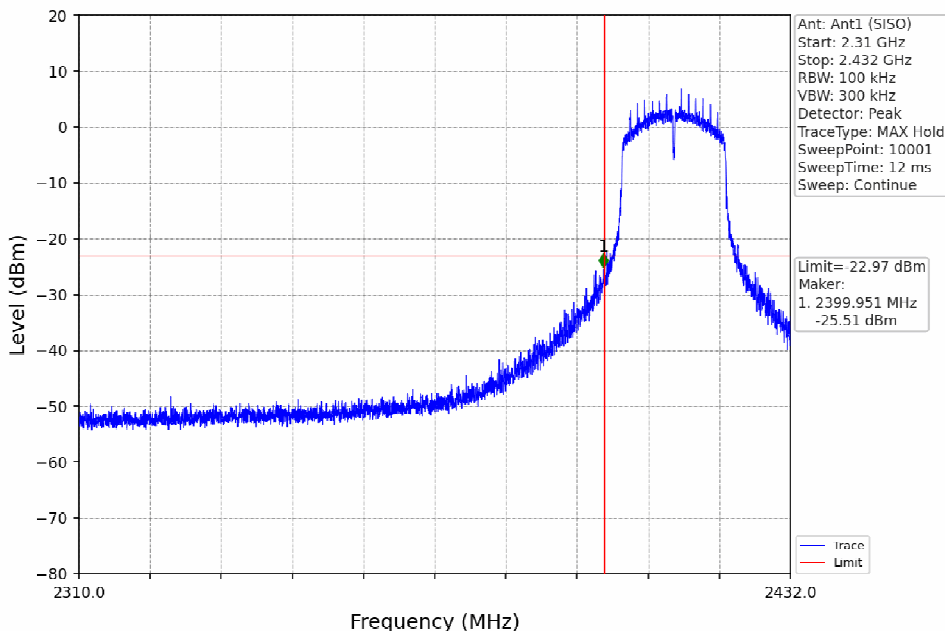
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



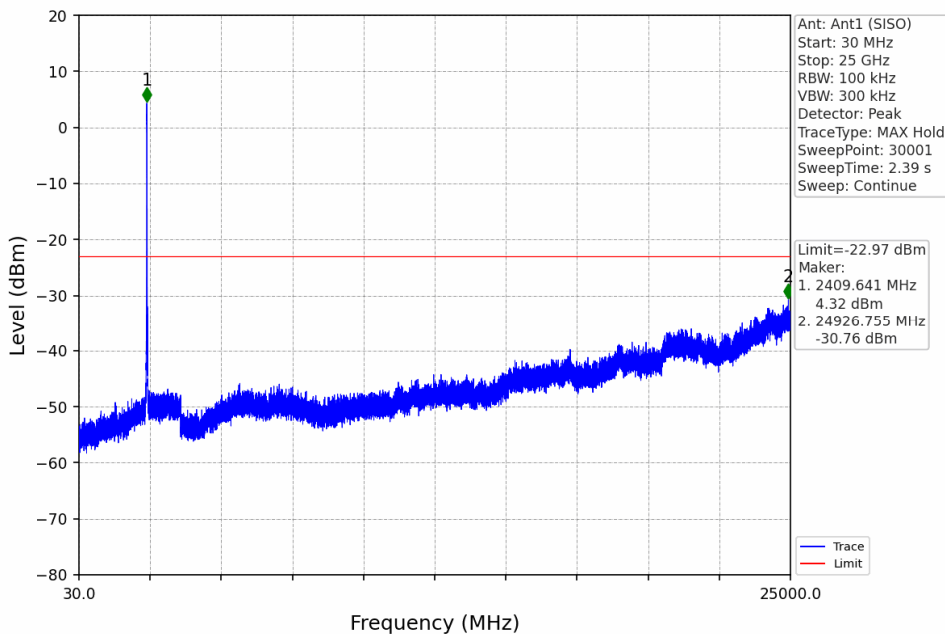
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



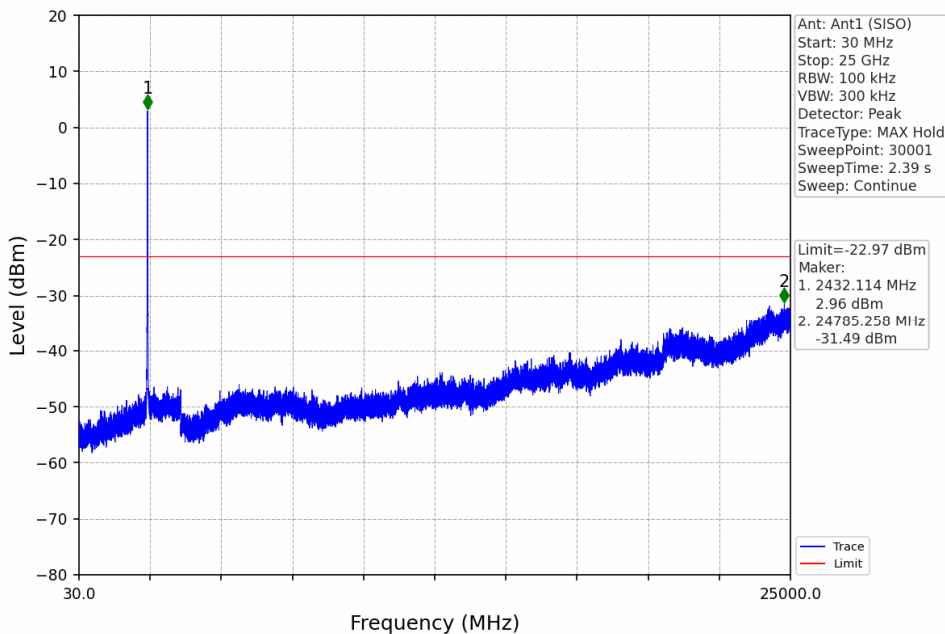
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



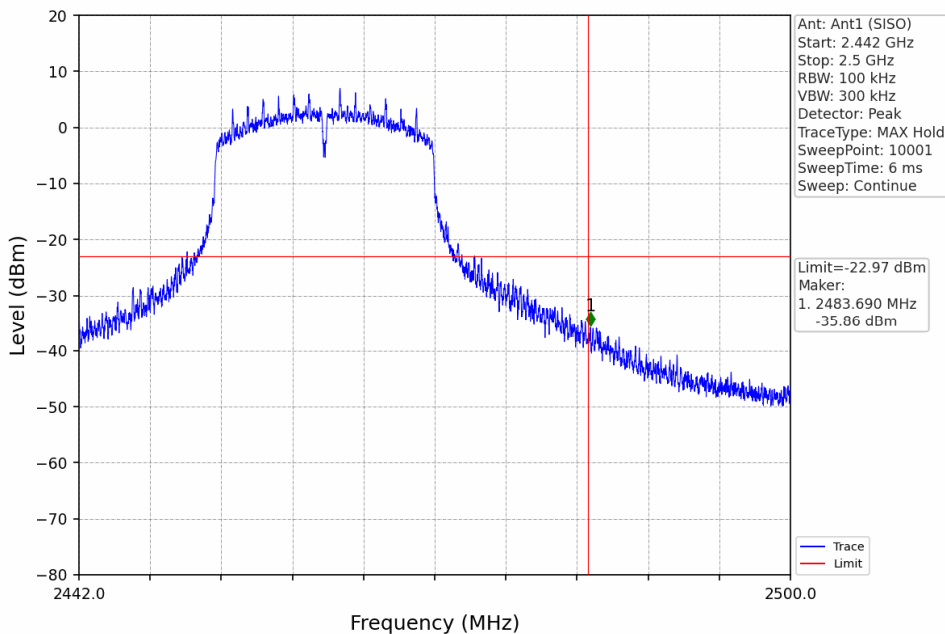
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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

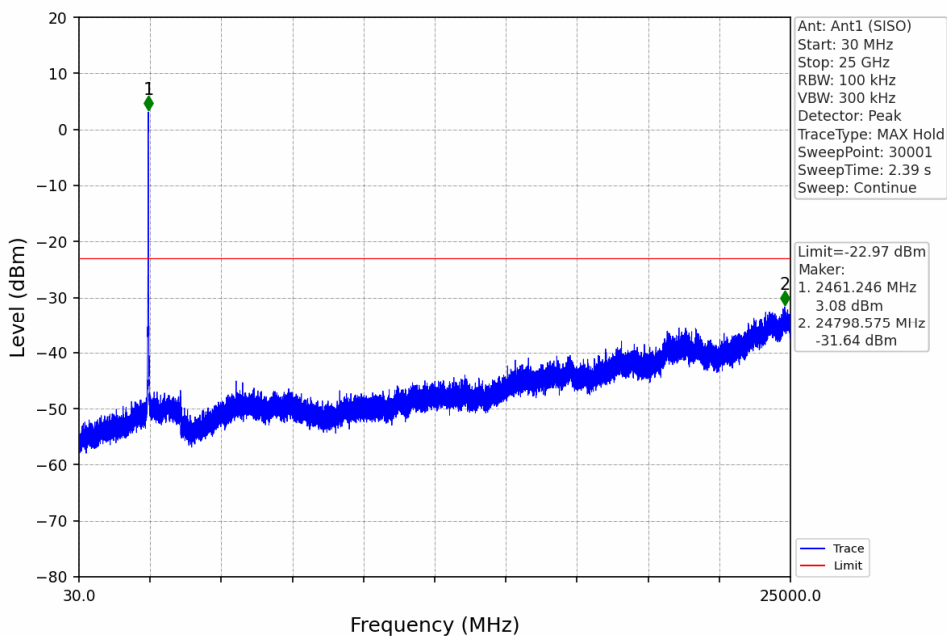


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



- End of the Report -