

## 9 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

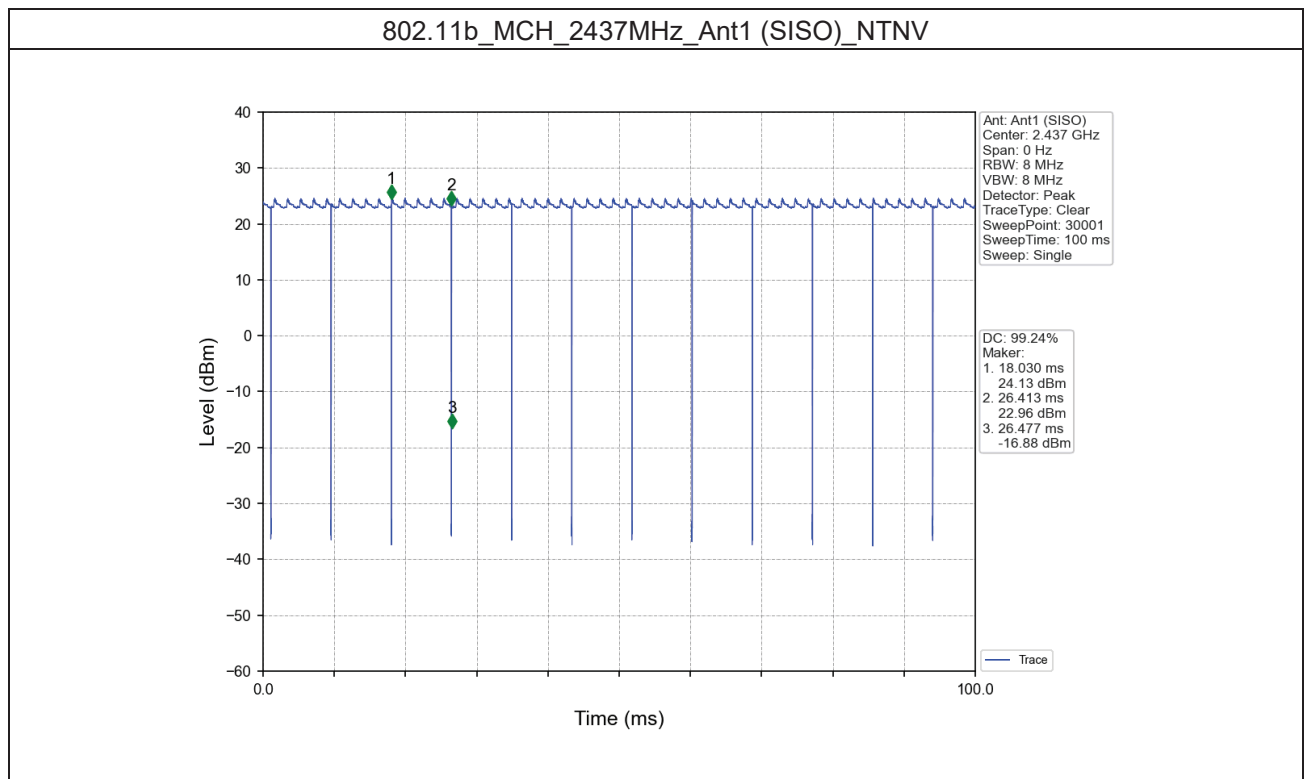
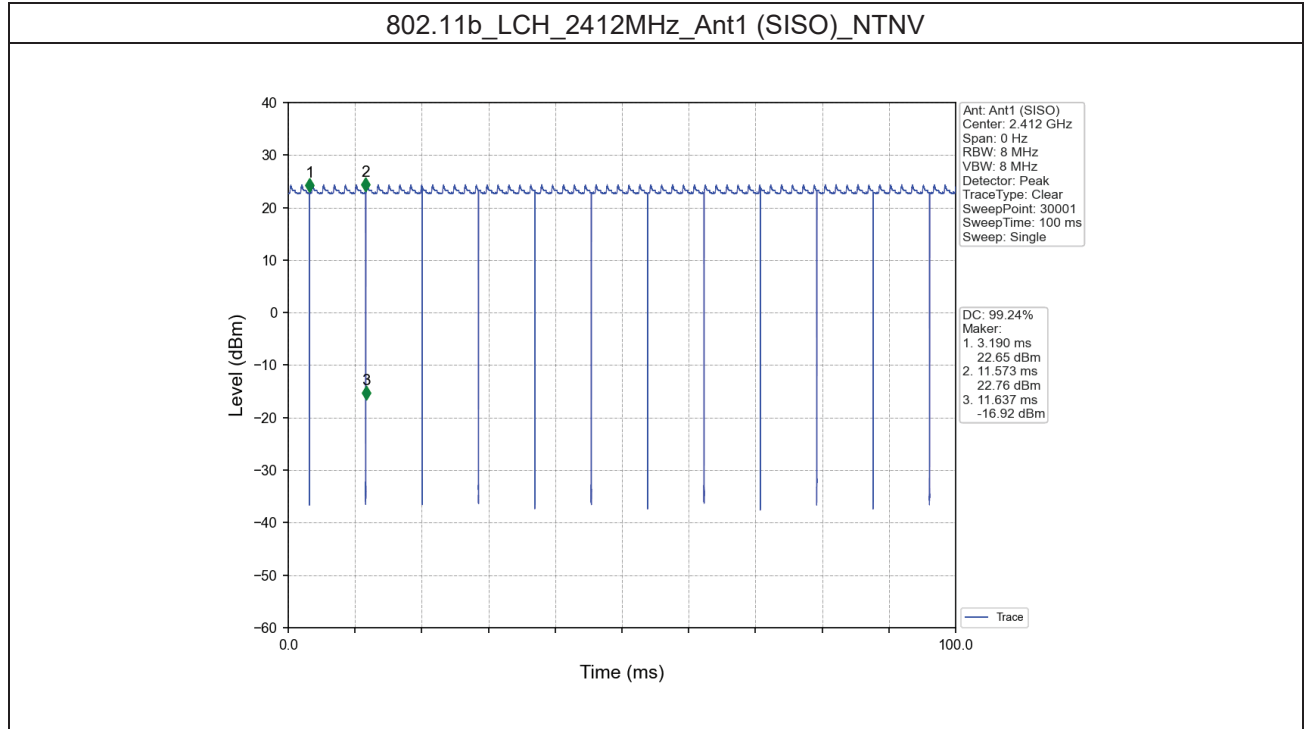
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.447	99.24	0.03	0.04
		2437	8.383	8.447	99.24	0.03	0.04
		2462	8.384	8.447	99.25	0.03	0.04
802.11g	SISO	2412	1.395	1.464	95.29	0.21	0.03
		2437	1.395	1.464	95.29	0.21	0.03
		2462	1.395	1.463	95.35	0.21	0.04
802.11n (HT20)	MIMO	2412	1.303	1.372	94.97	0.22	0.03
		2437	1.303	1.371	95.04	0.22	0.03
		2462	1.303	1.372	94.97	0.22	0.03
802.11n (HT40)	MIMO	2422	0.650	0.718	90.53	0.43	0.04
		2437	0.650	0.719	90.40	0.44	0.03
		2452	0.650	0.719	90.40	0.44	0.03



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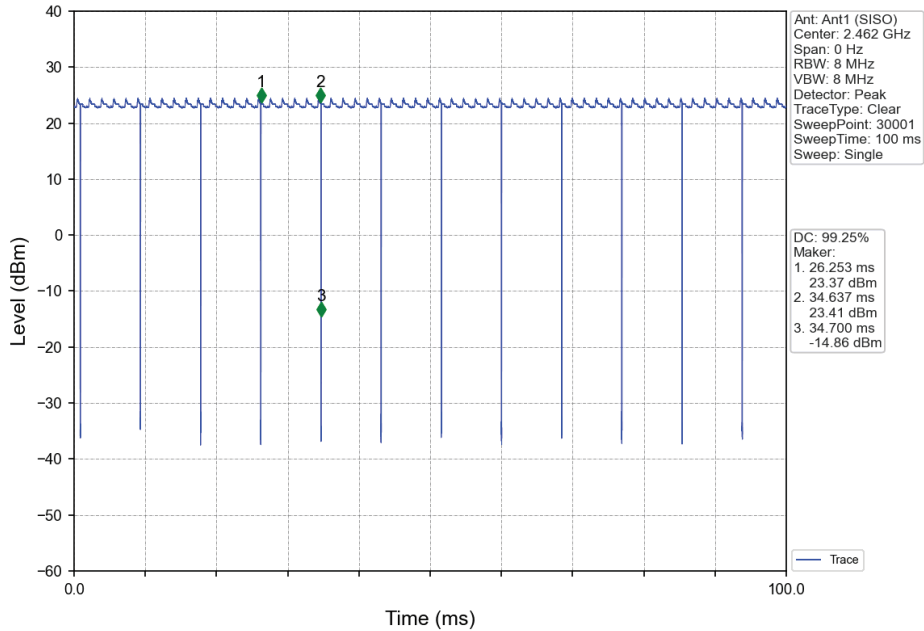
### 1.1.2 Test Graph



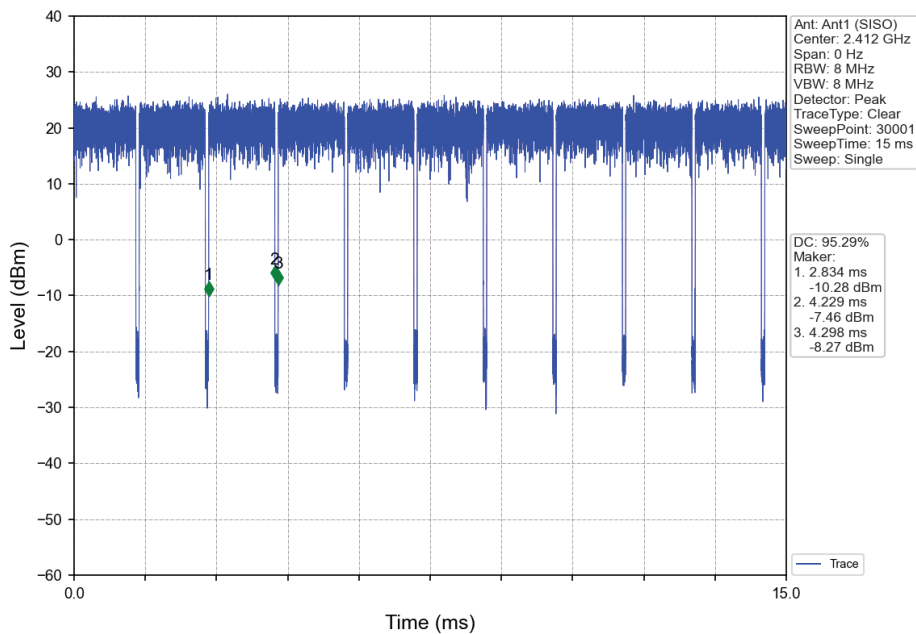
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



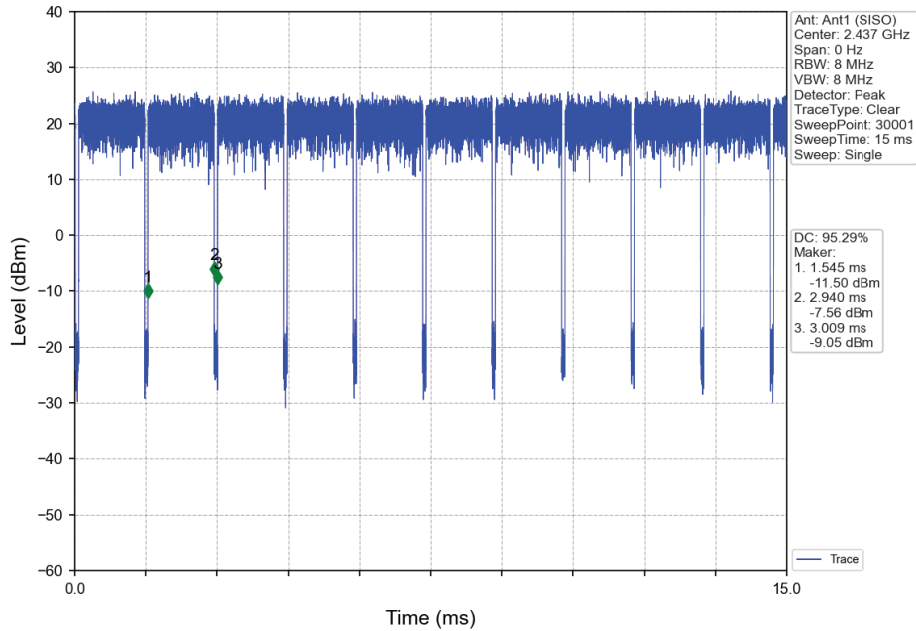
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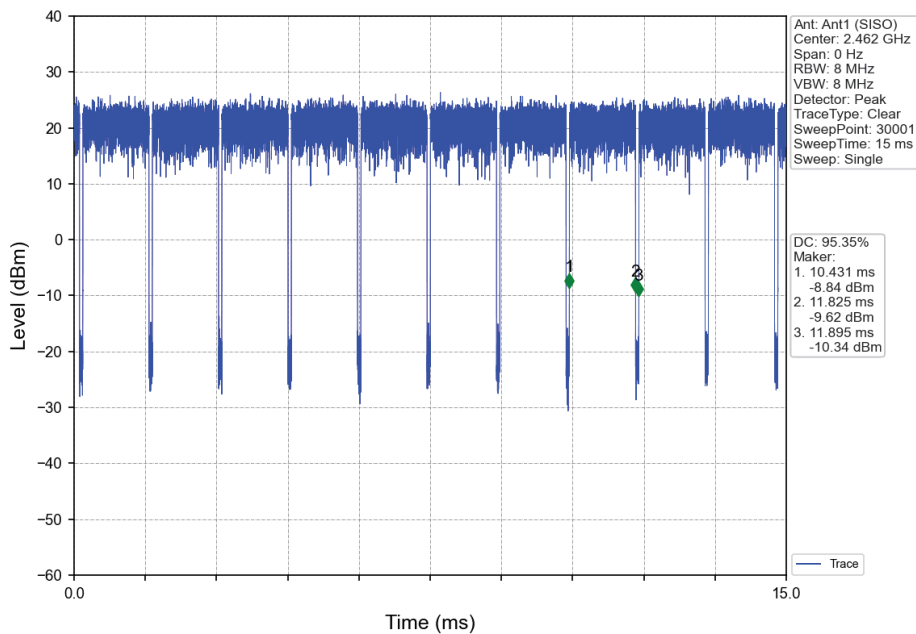
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



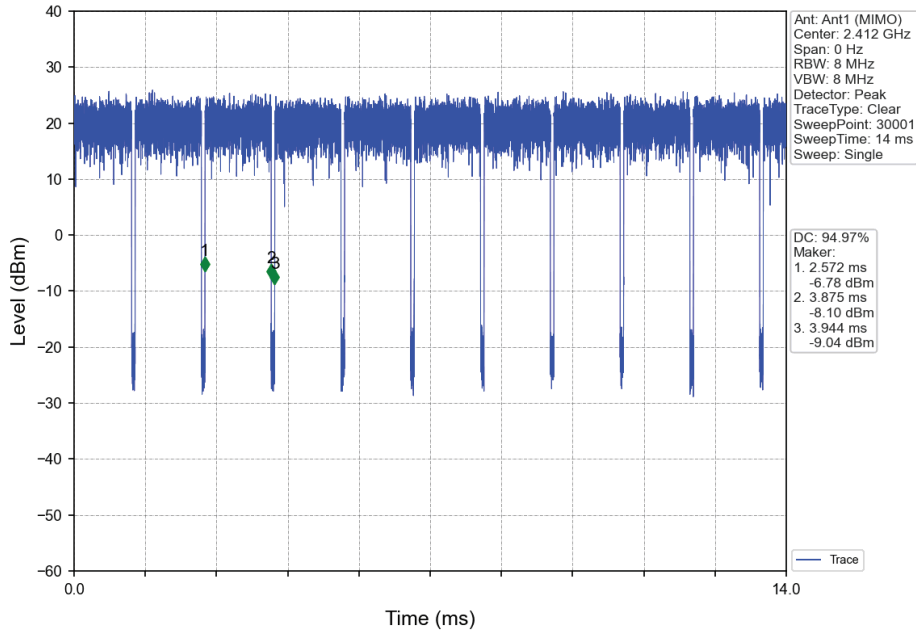
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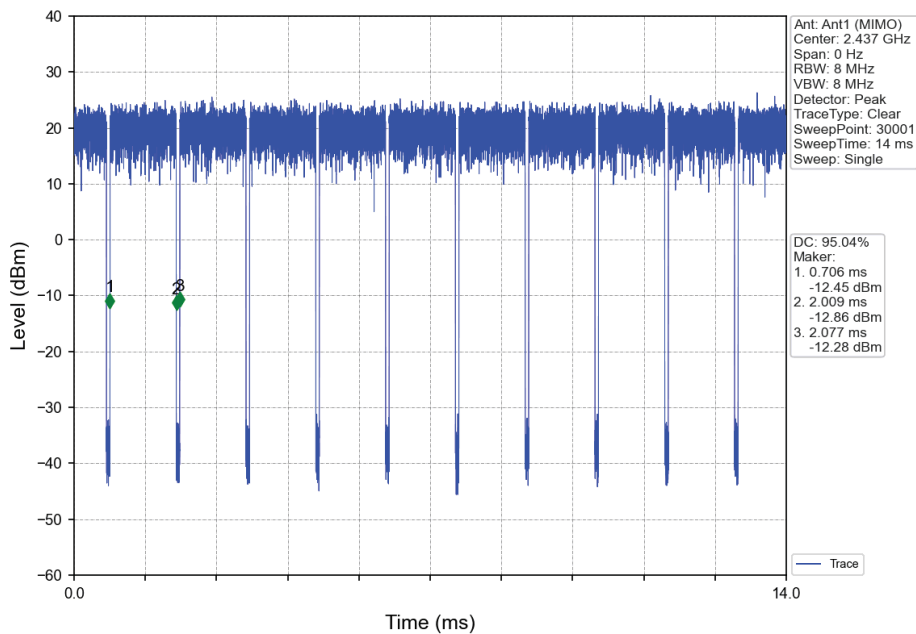
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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

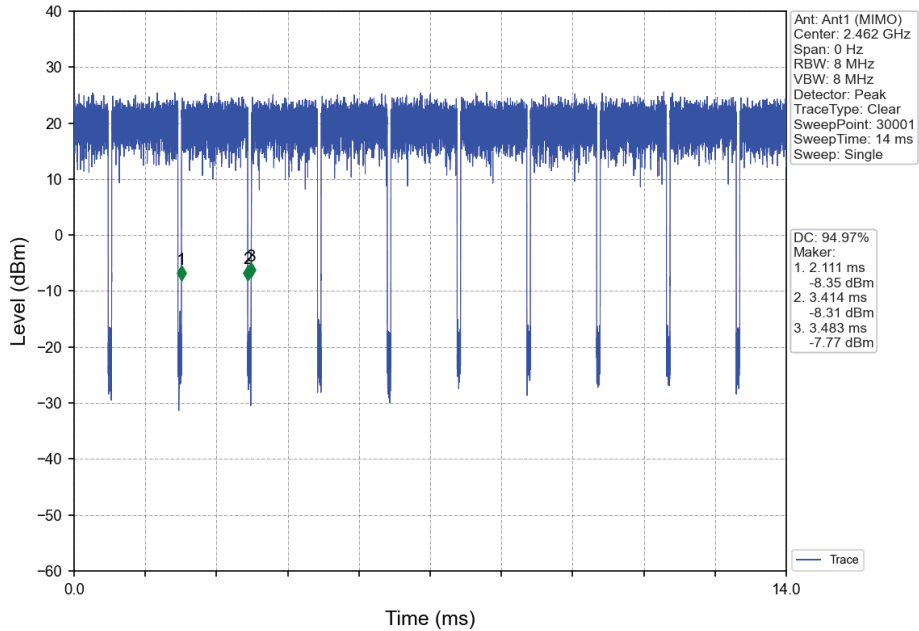


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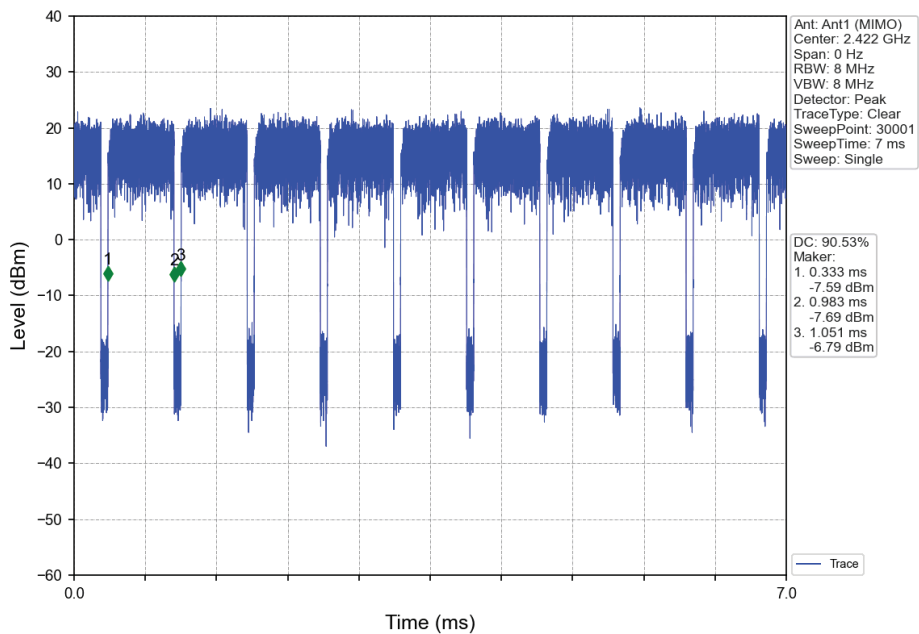
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



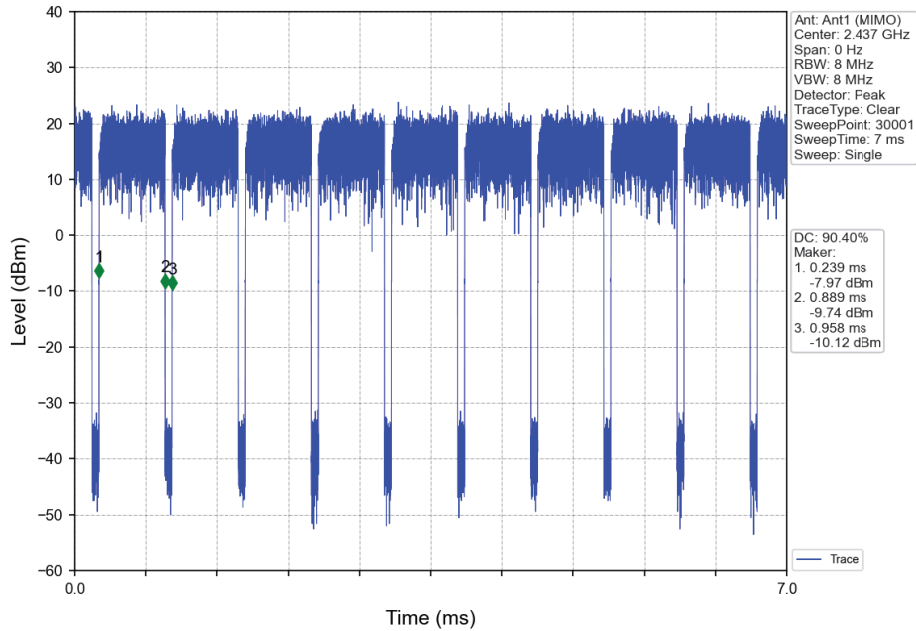
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



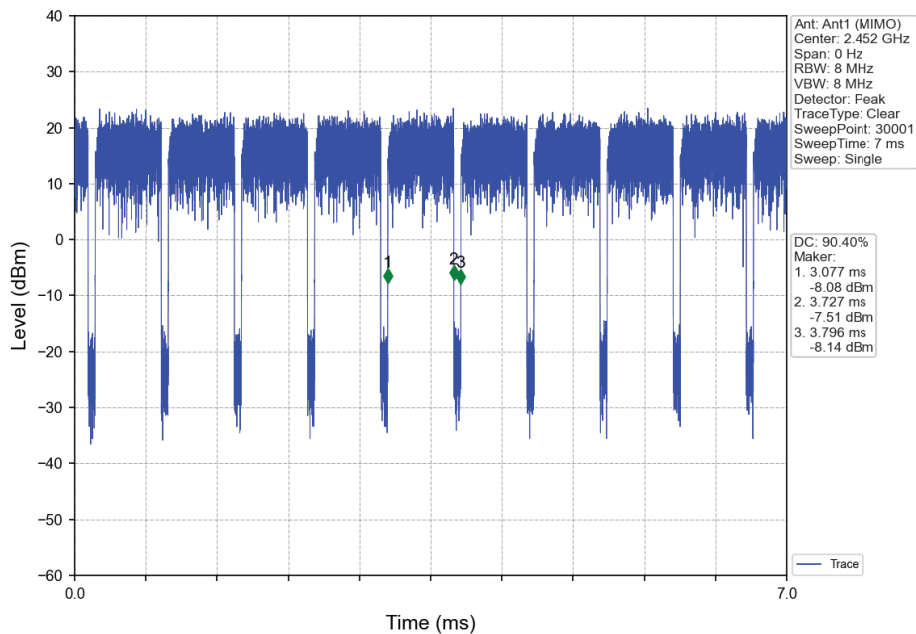
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_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	9.067	>=0.5	Pass
			2	8.581	>=0.5	Pass
		2437	1	9.088	>=0.5	Pass
			2	9.069	>=0.5	Pass
		2462	1	9.087	>=0.5	Pass
			2	9.074	>=0.5	Pass
802.11g	SISO	2412	1	15.361	>=0.5	Pass
			2	15.154	>=0.5	Pass
		2437	1	15.155	>=0.5	Pass
			2	15.160	>=0.5	Pass
		2462	1	15.166	>=0.5	Pass
			2	15.162	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.169	>=0.5	Pass
			2	16.318	>=0.5	Pass
		2437	1	15.155	>=0.5	Pass
			2	15.716	>=0.5	Pass
		2462	1	15.157	>=0.5	Pass
			2	16.296	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.126	>=0.5	Pass
			2	35.109	>=0.5	Pass
		2437	1	35.130	>=0.5	Pass
			2	35.112	>=0.5	Pass
		2452	1	35.110	>=0.5	Pass
			2	35.113	>=0.5	Pass

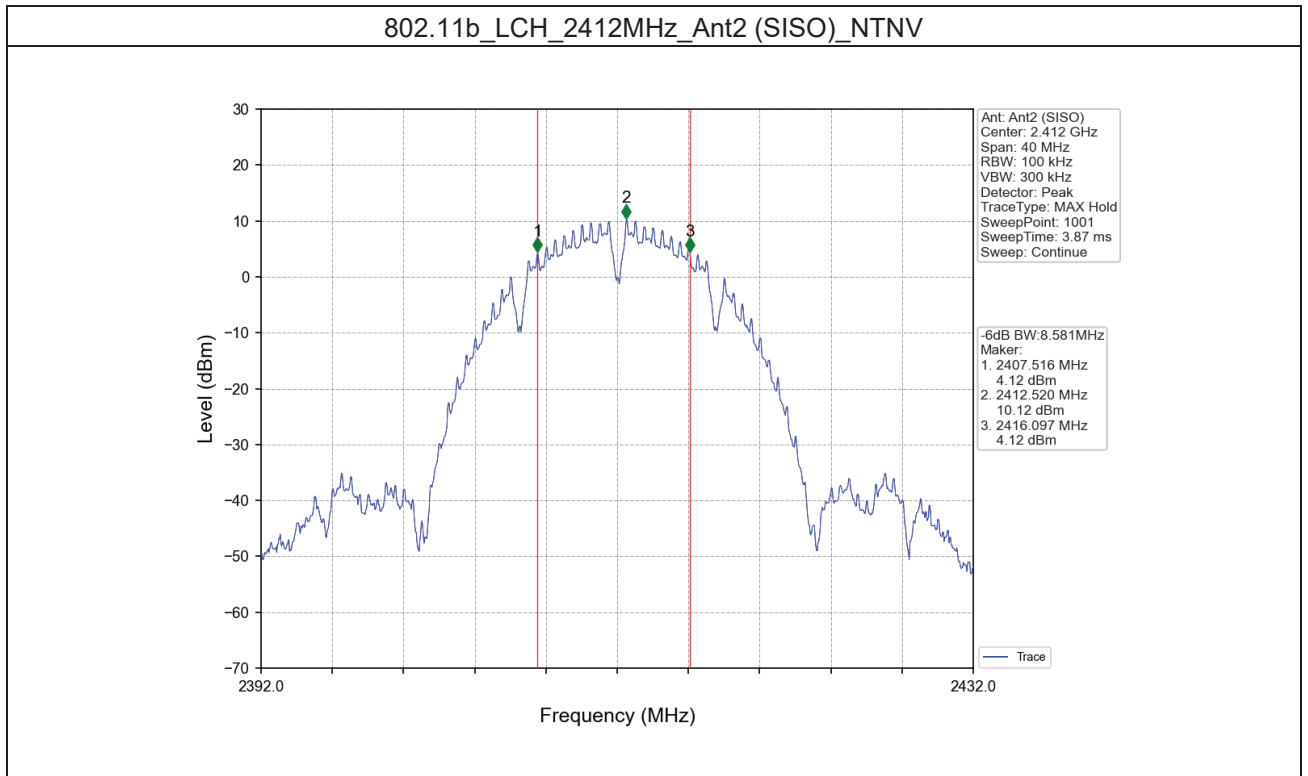
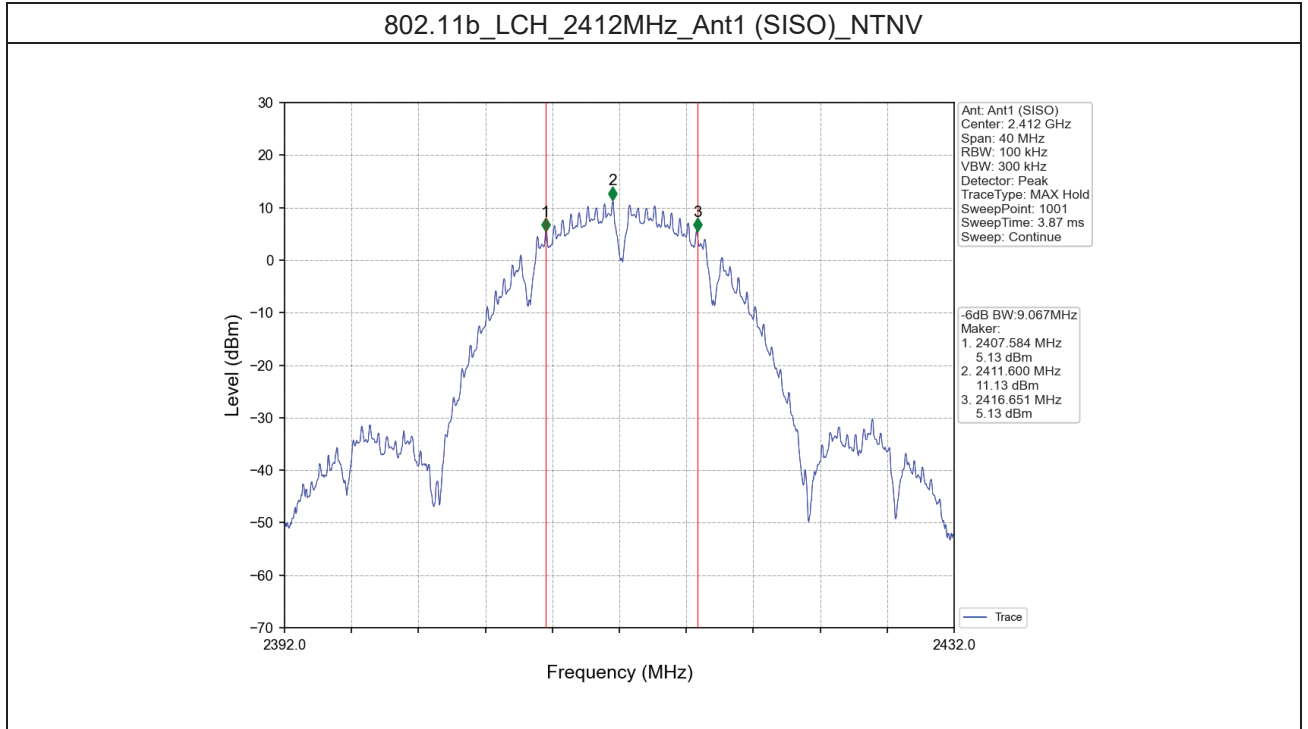


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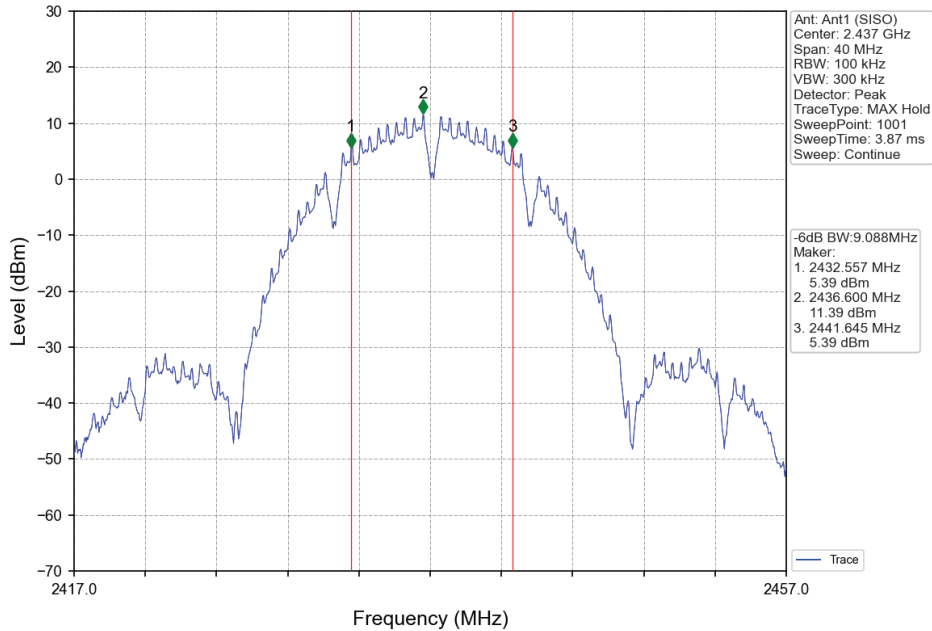
2.1.2 Test Graph



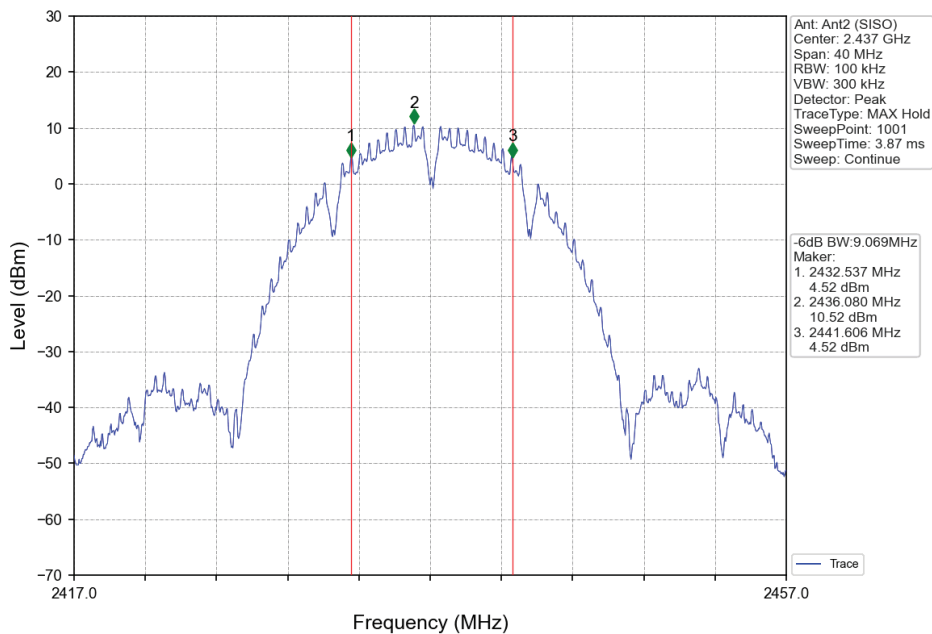
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



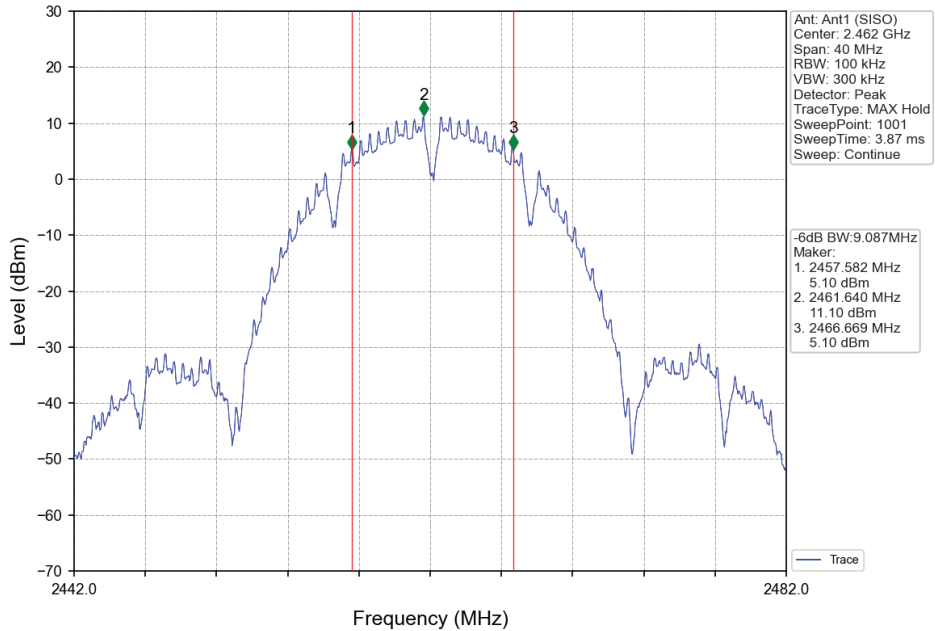
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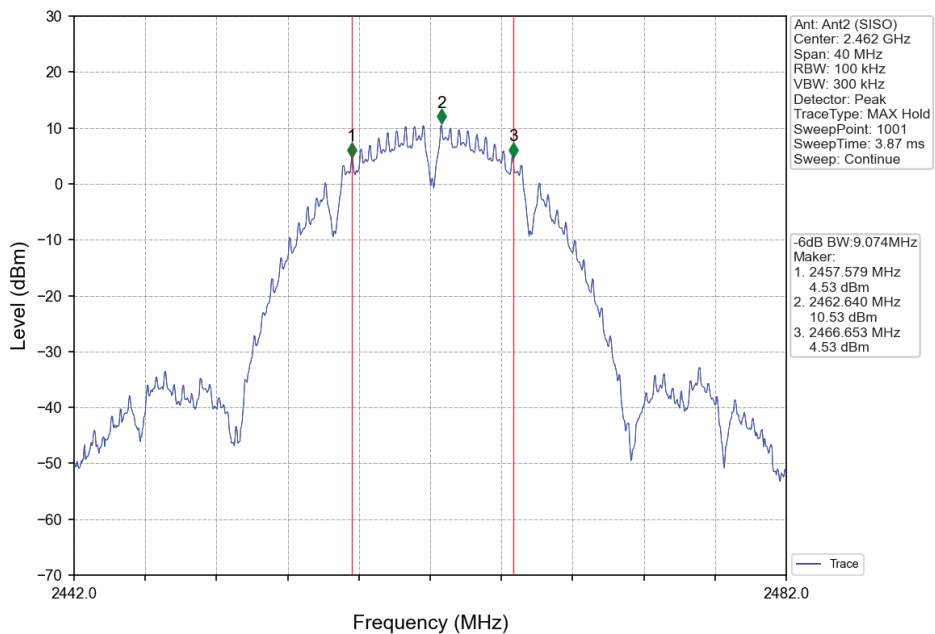
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



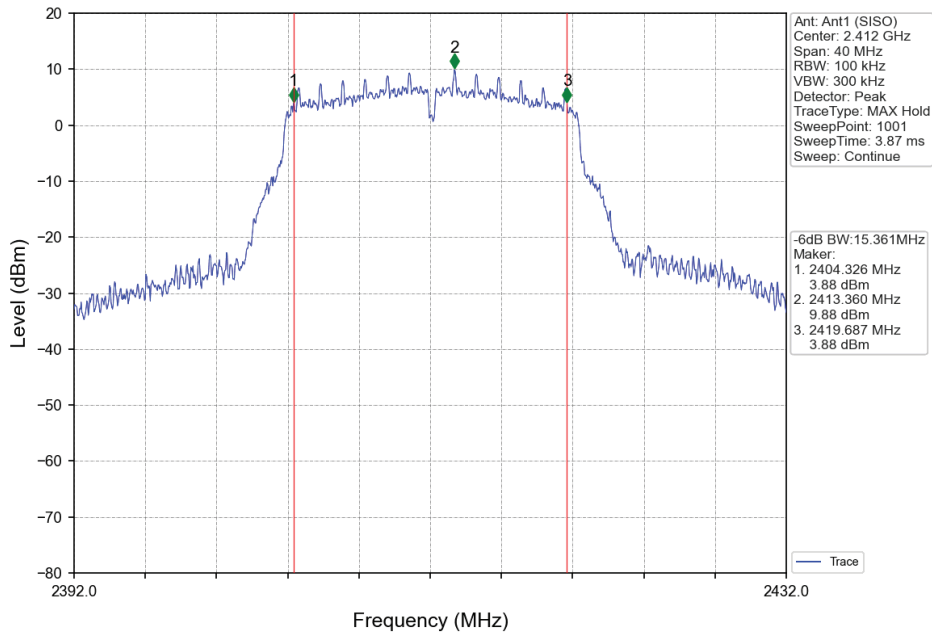
### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



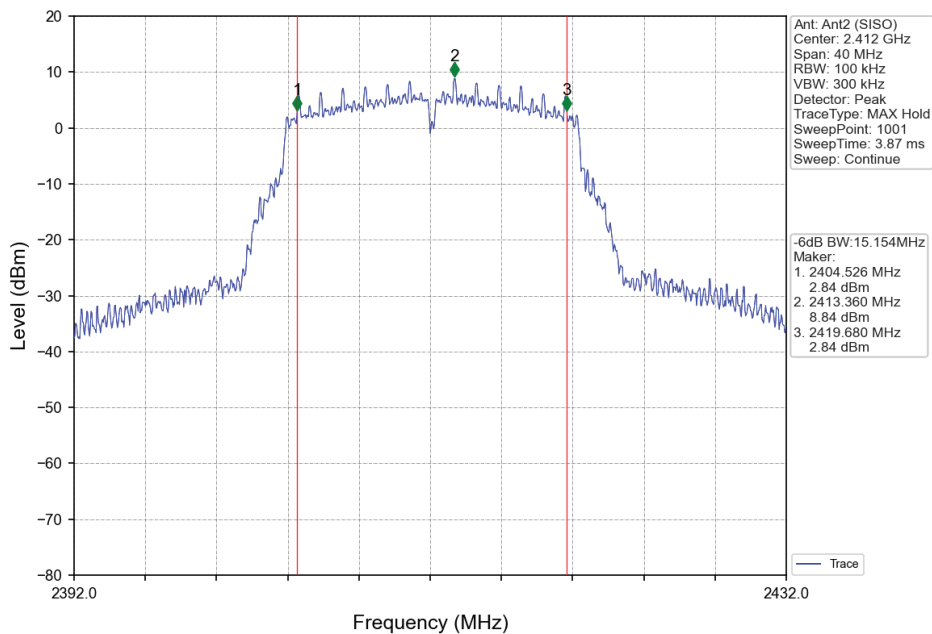
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

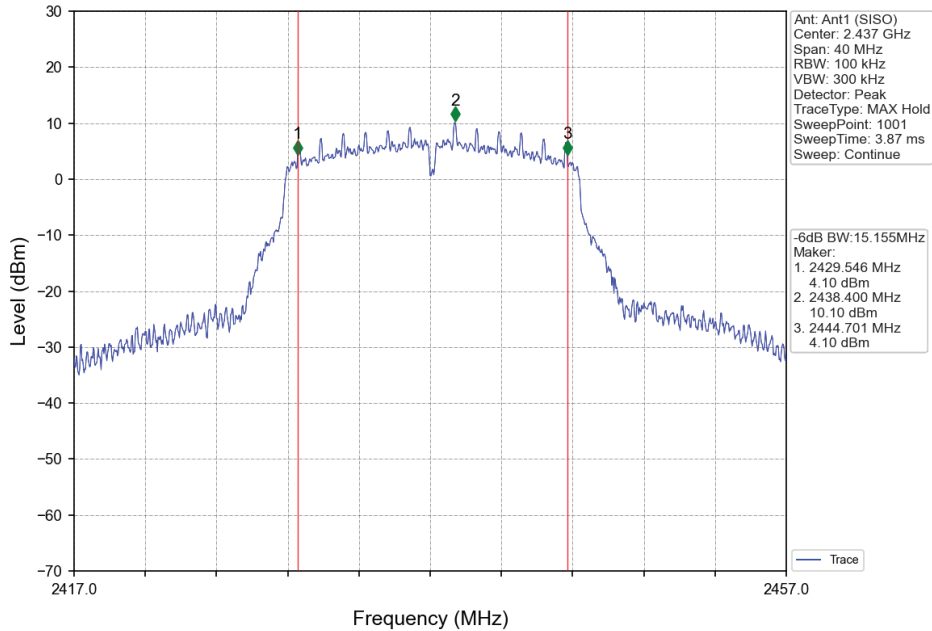


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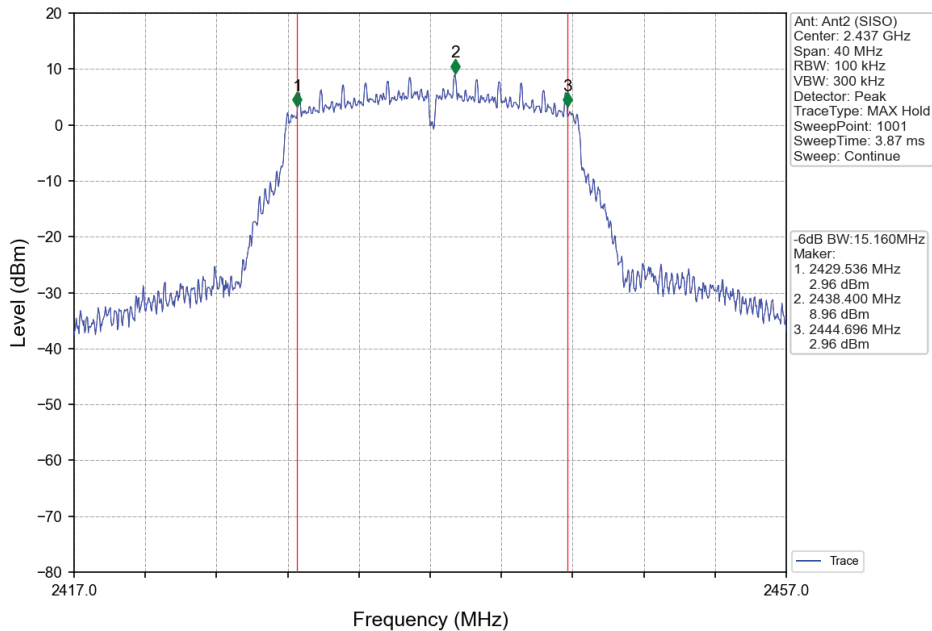
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

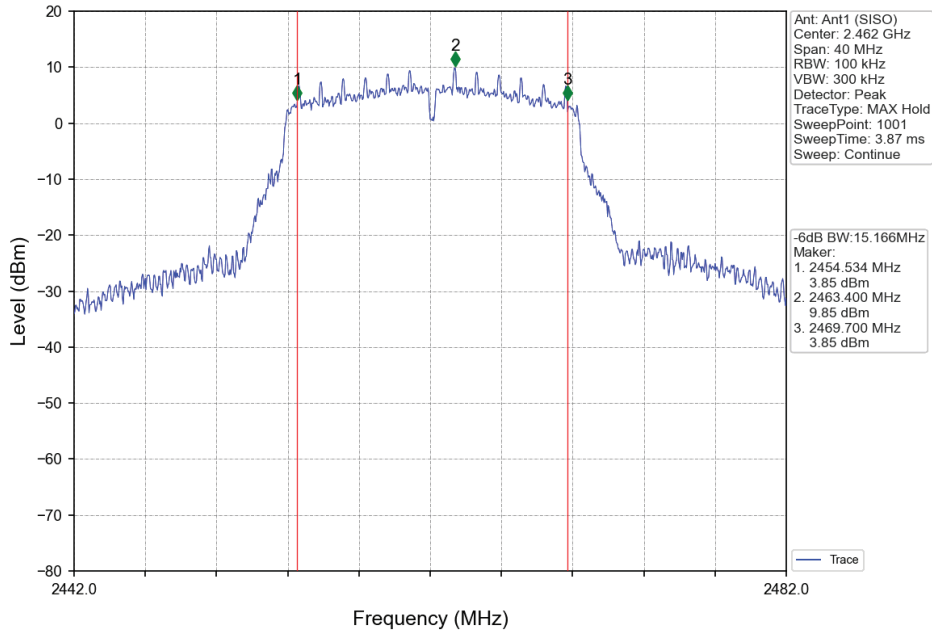


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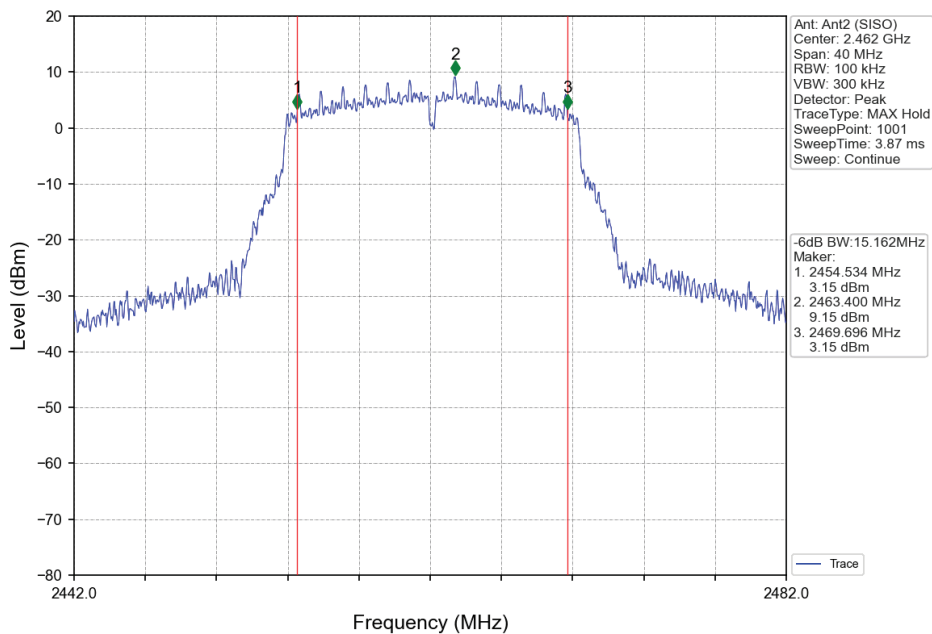
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



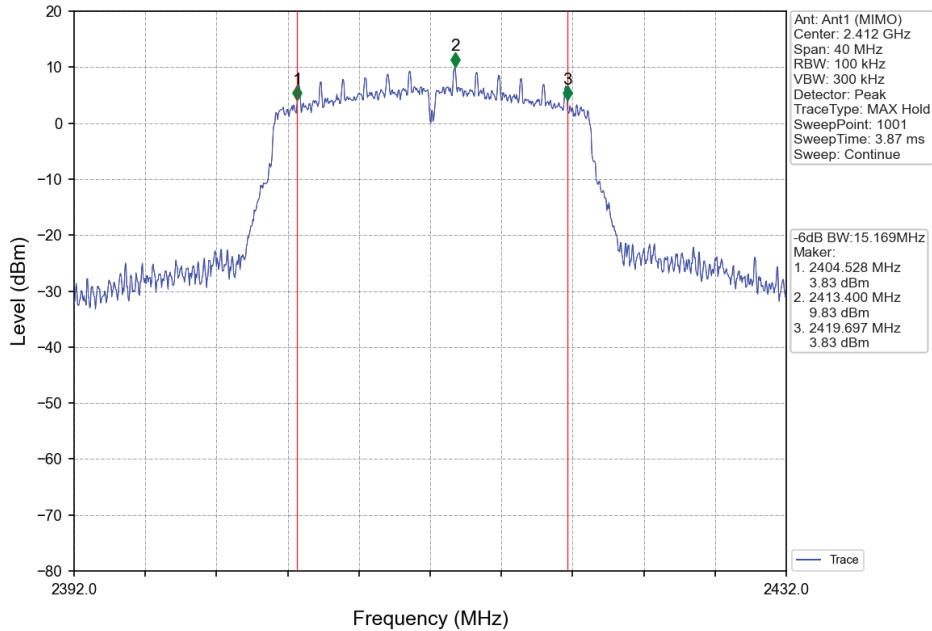
### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



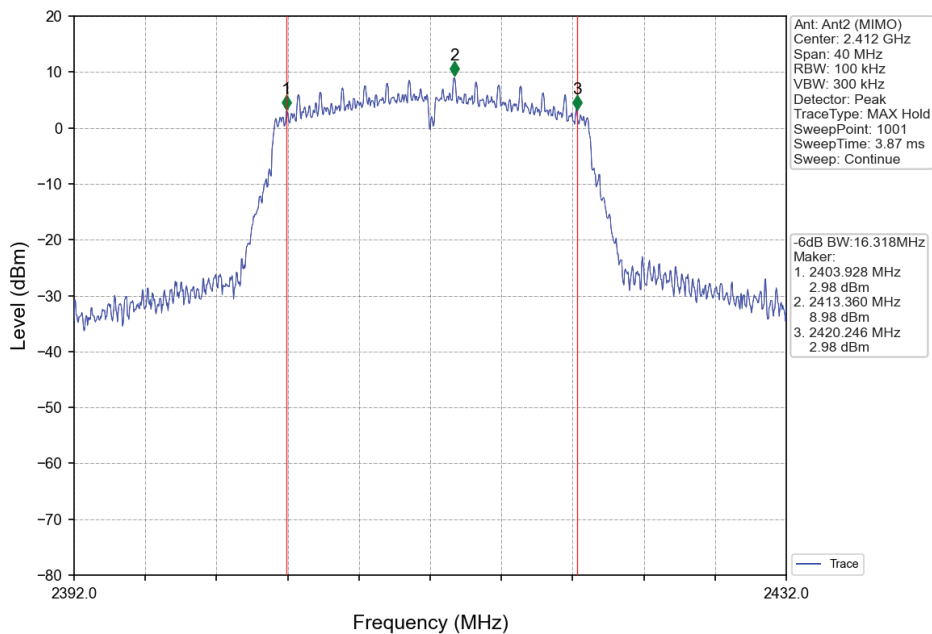
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



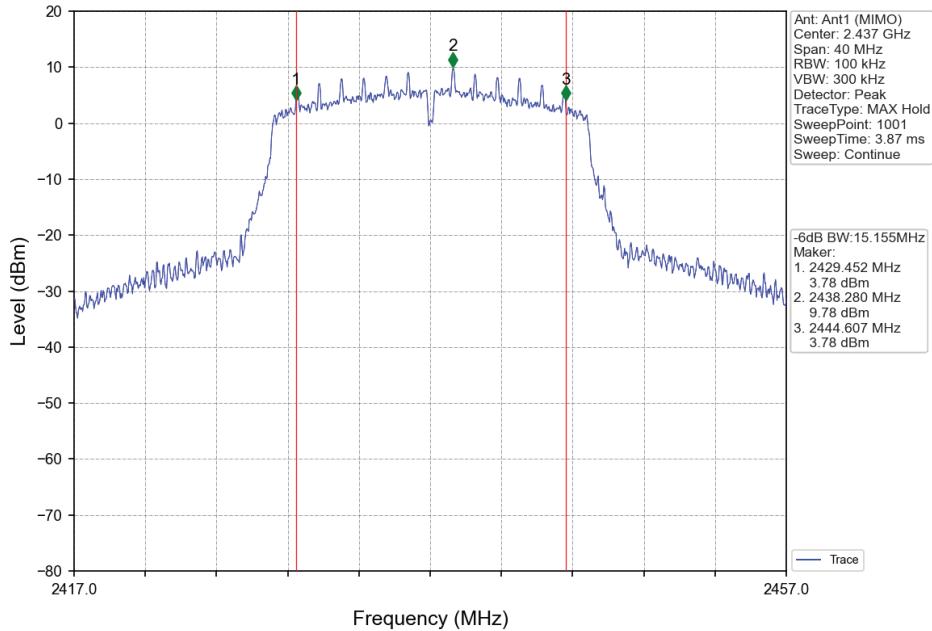
### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



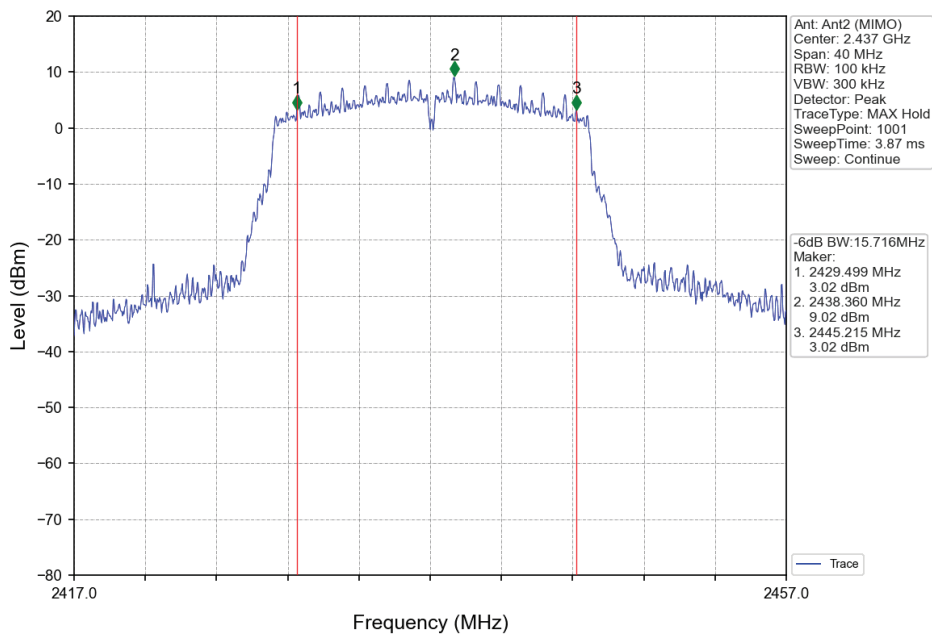
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



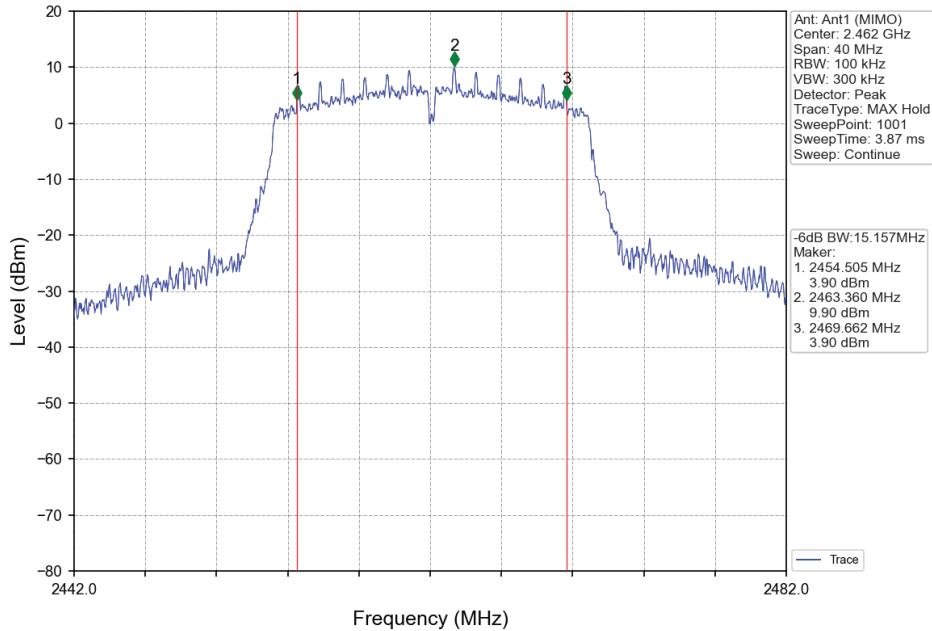
### 802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



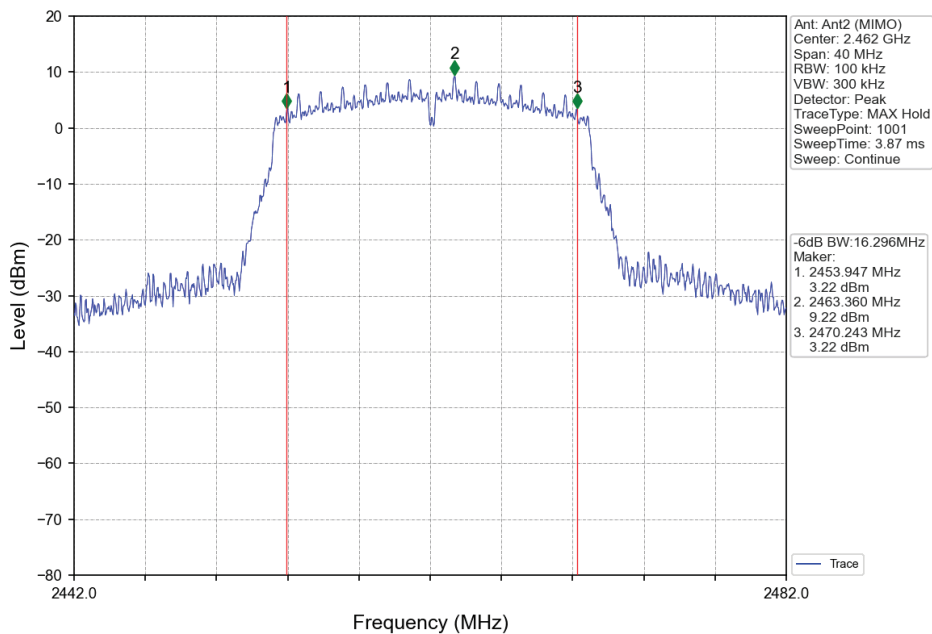
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

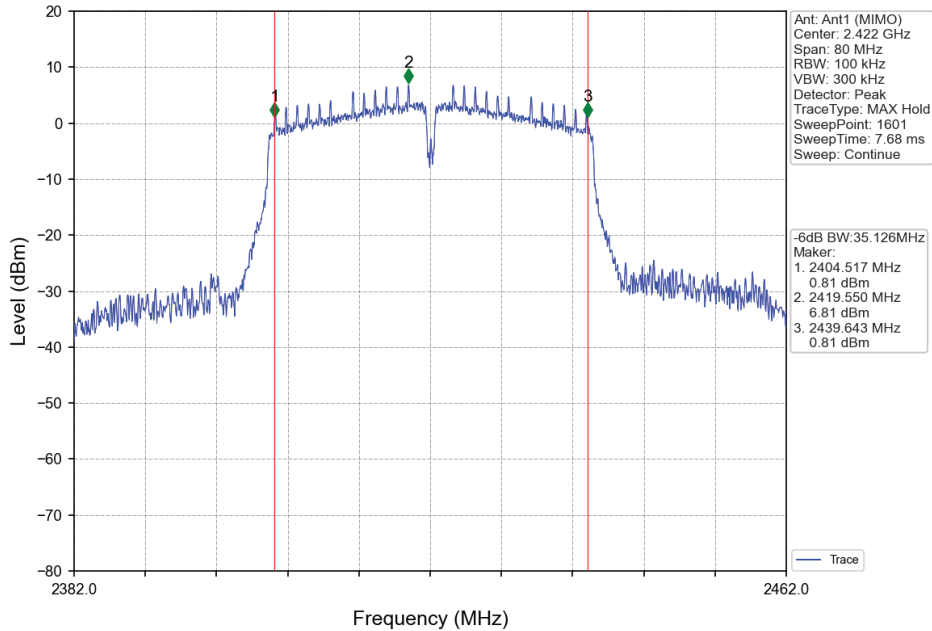


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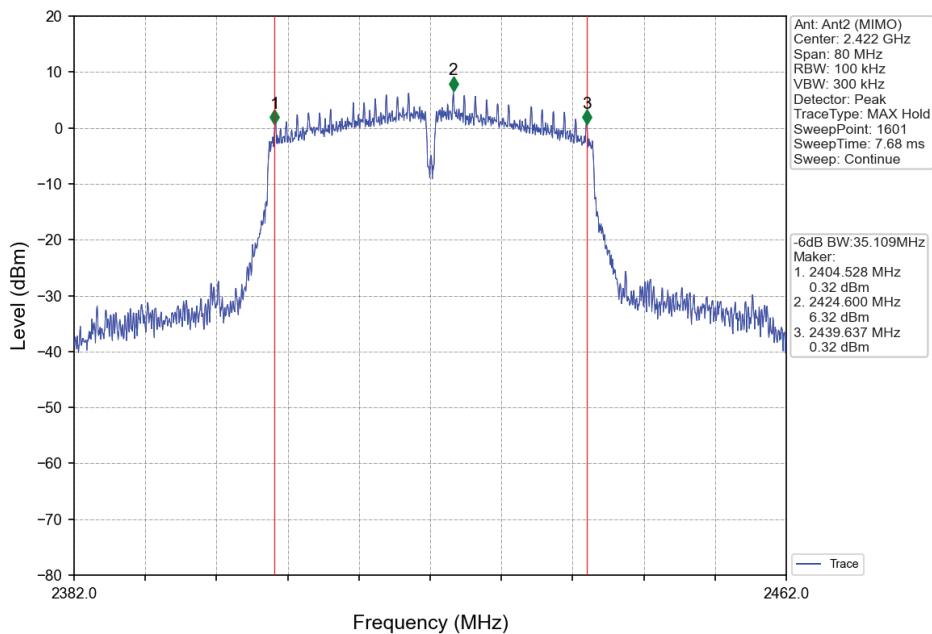
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

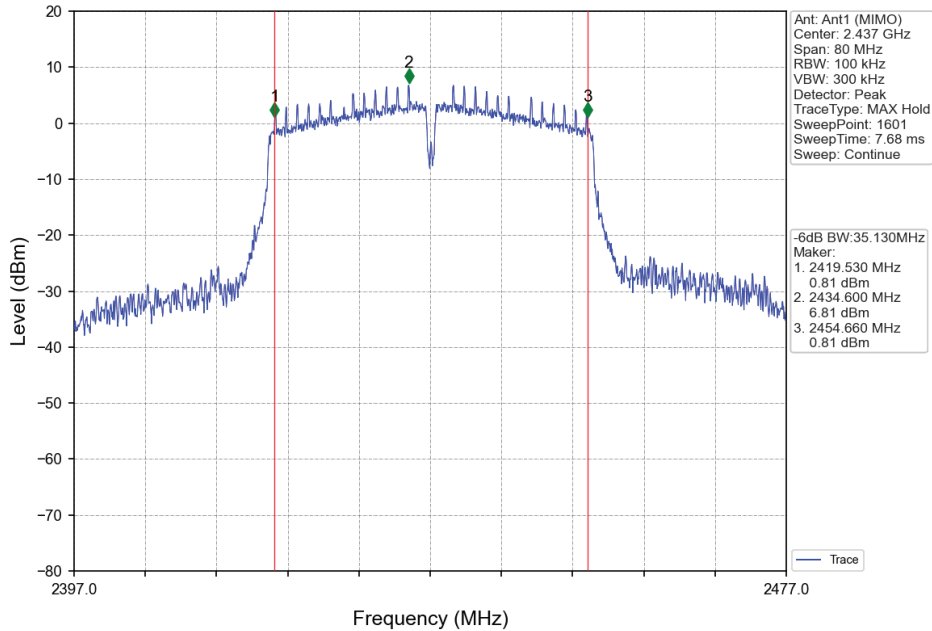


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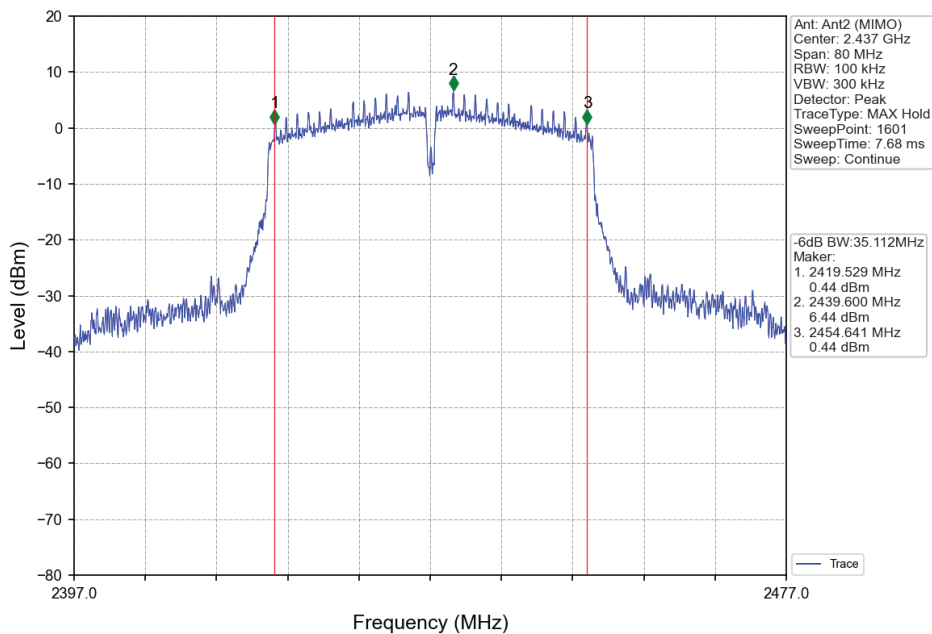
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



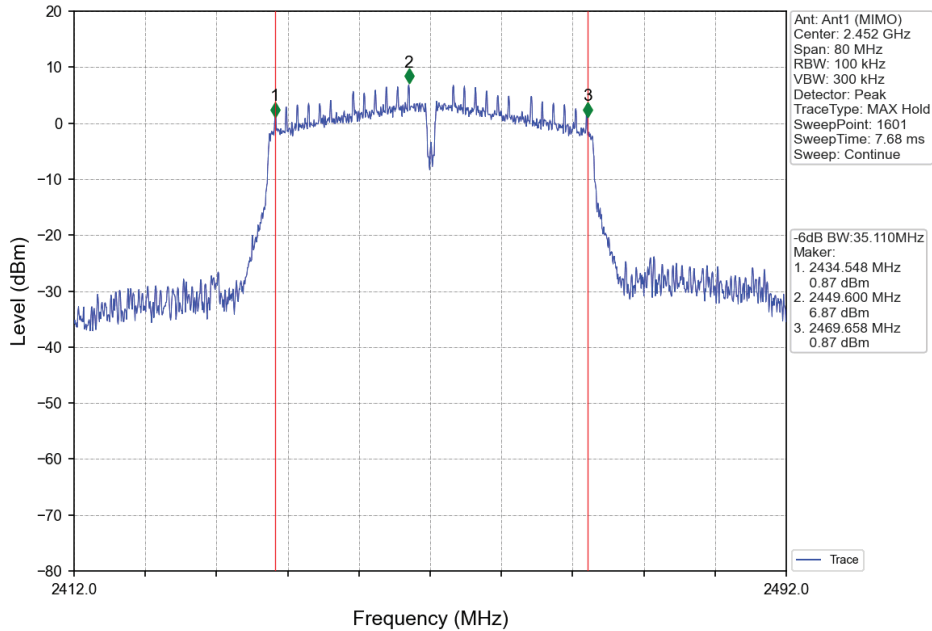
### 802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



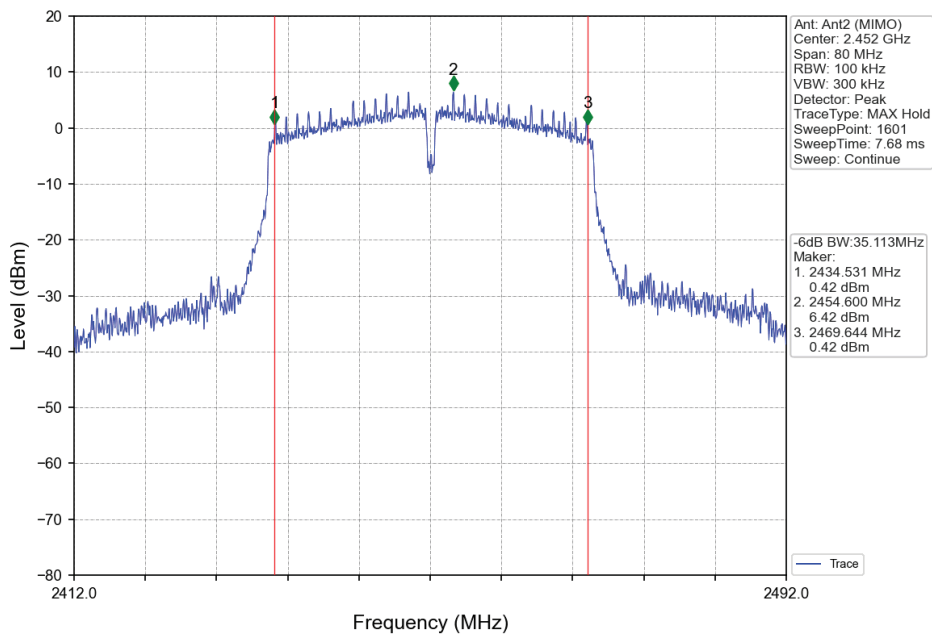
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



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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	ANT2	MIMO	Limit	
802.11b	SISO	2412	13.60	14.45	/	<=30	Pass
		2437	14.11	14.94	/	<=30	Pass
		2462	13.56	14.75	/	<=30	Pass
802.11g	SISO	2412	12.01	12.99	/	<=30	Pass
		2437	11.59	12.86	/	<=30	Pass
		2462	11.78	12.44	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.87	12.79	15.36	<=30	Pass
		2437	12.01	12.74	15.40	<=30	Pass
		2462	12.28	12.98	15.65	<=30	Pass
802.11n (HT40)	MIMO	2422	8.63	9.82	12.28	<=30	Pass
		2437	8.74	9.78	12.30	<=30	Pass
		2452	8.90	9.81	12.39	<=30	Pass



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

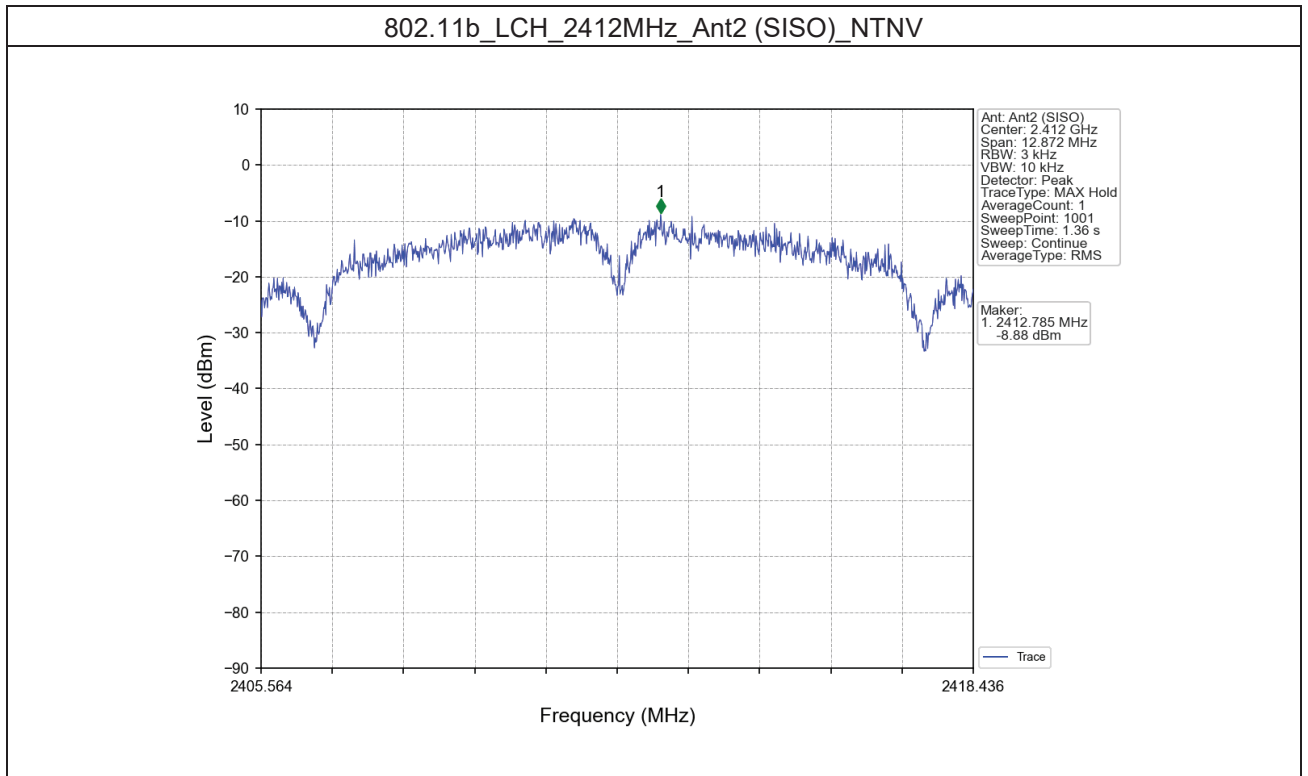
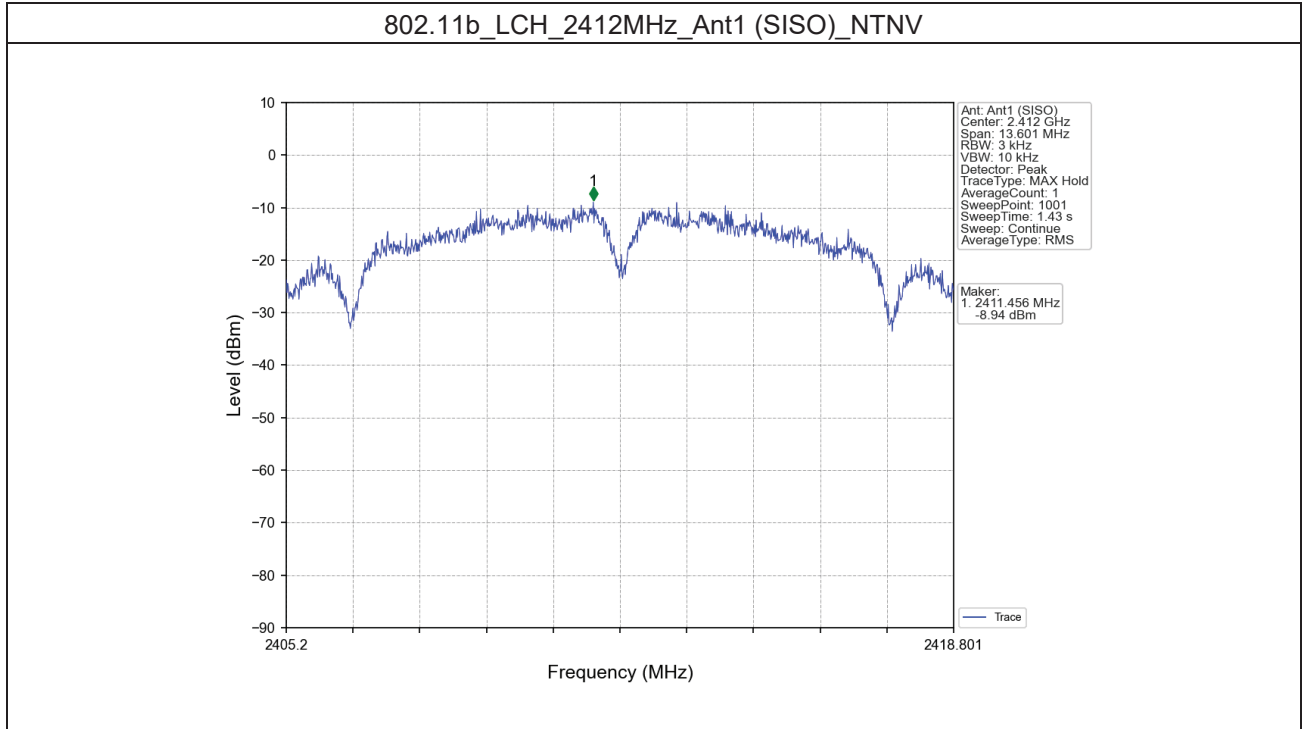
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-8.94	-8.88	/	<=8	Pass
		2437	-8.77	-7.80	/	<=8	Pass
		2462	-9.34	-8.53	/	<=8	Pass
802.11g	SISO	2412	-12.28	-11.85	/	<=8	Pass
		2437	-13.30	-11.30	/	<=8	Pass
		2462	-11.98	-12.05	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-13.26	-11.74	-10.32	<=8	Pass
		2437	-12.92	-12.30	-10.66	<=8	Pass
		2462	-12.75	-10.46	-9.62	<=8	Pass
802.11n (HT40)	MIMO	2422	-18.44	-16.99	-15.12	<=8	Pass
		2437	-18.10	-17.81	-15.60	<=8	Pass
		2452	-18.76	-17.51	-15.64	<=8	Pass



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4.1.2 Test Graph

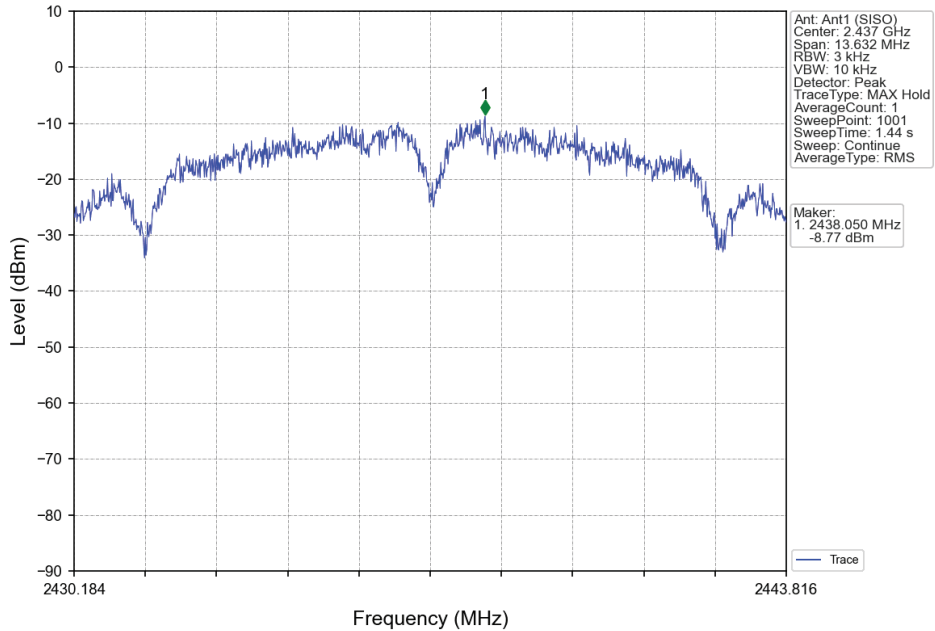


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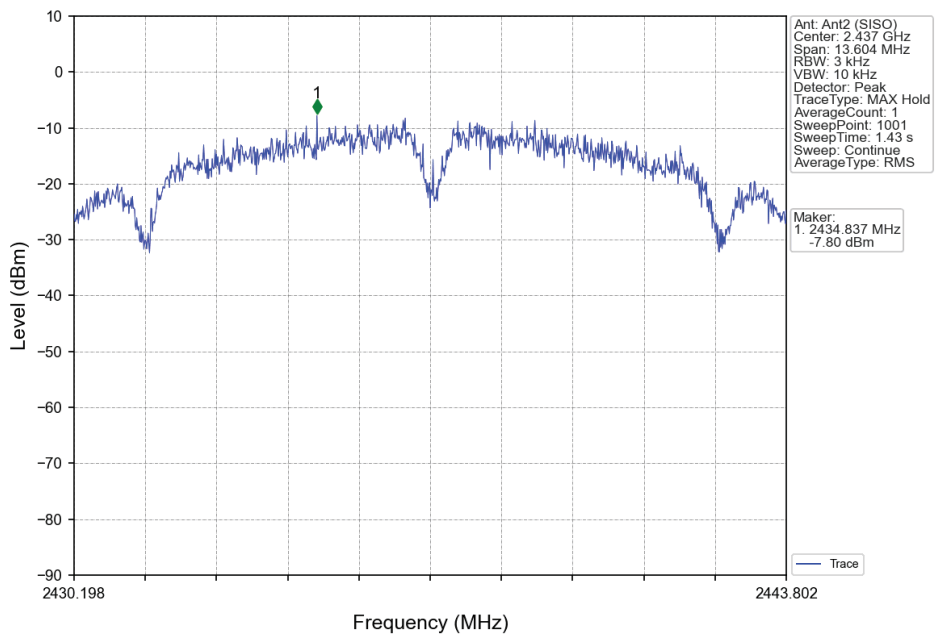
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



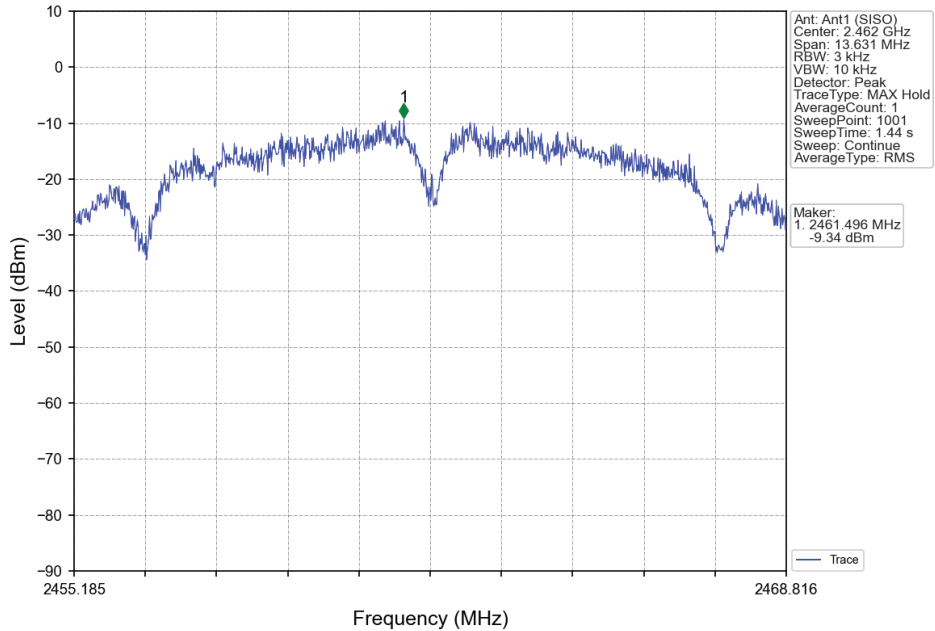
### 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



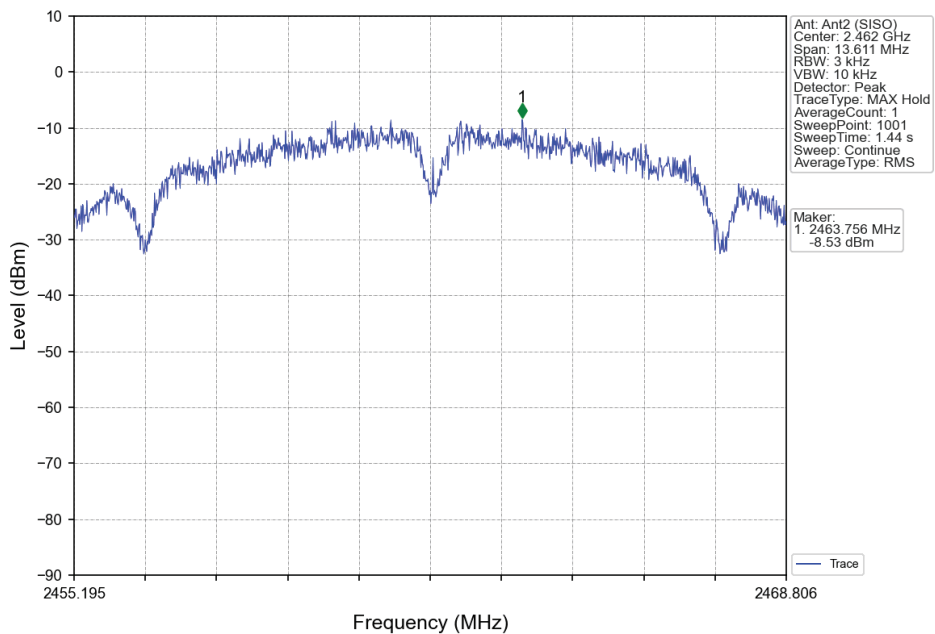
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



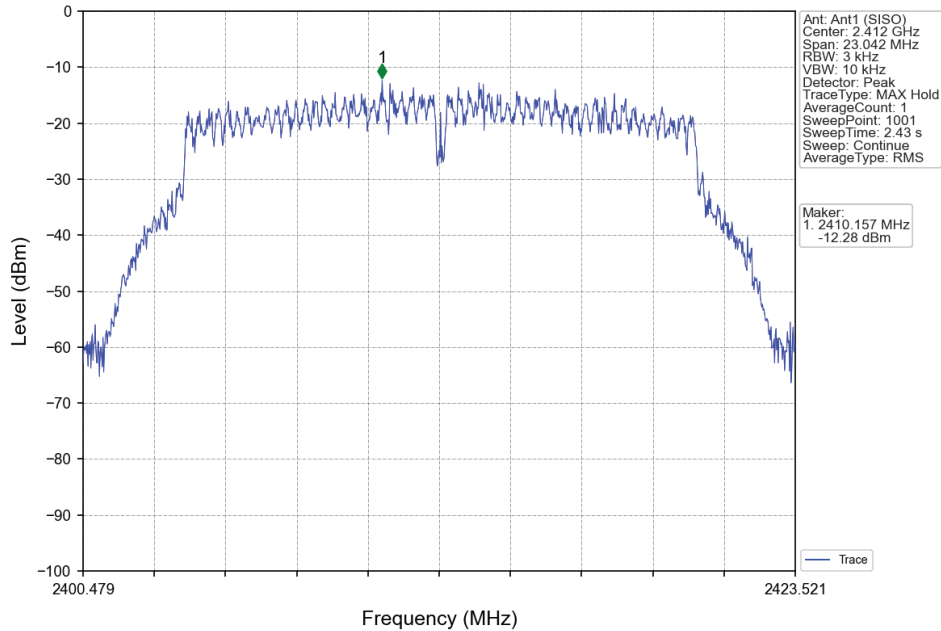
### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



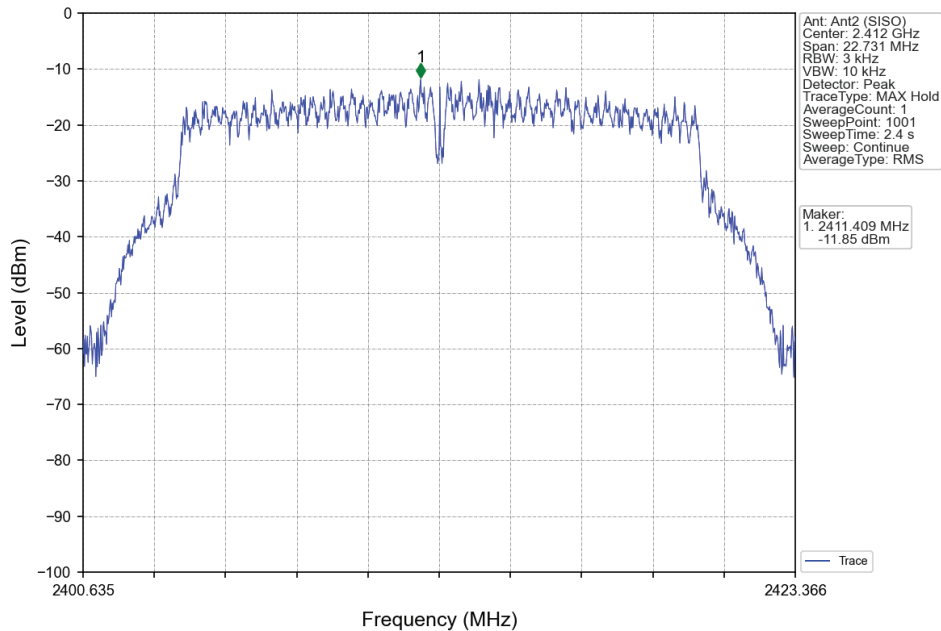
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

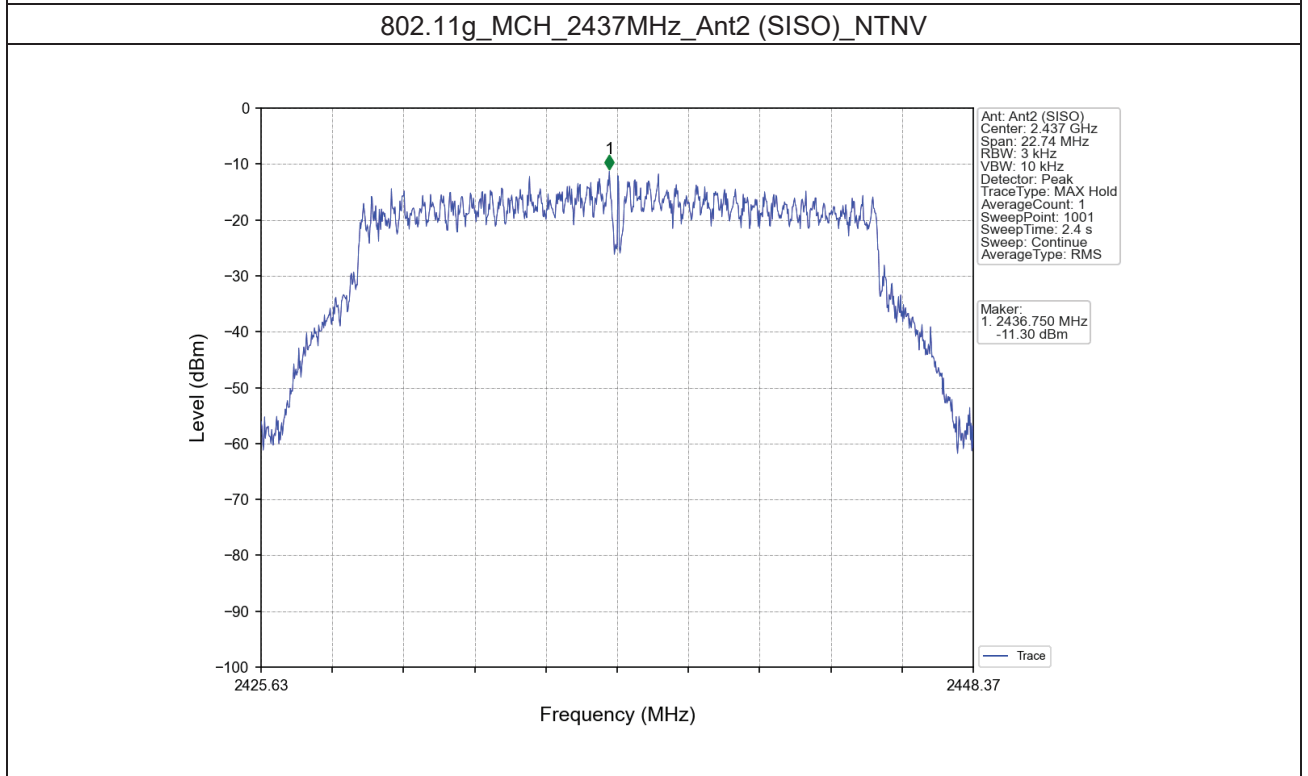
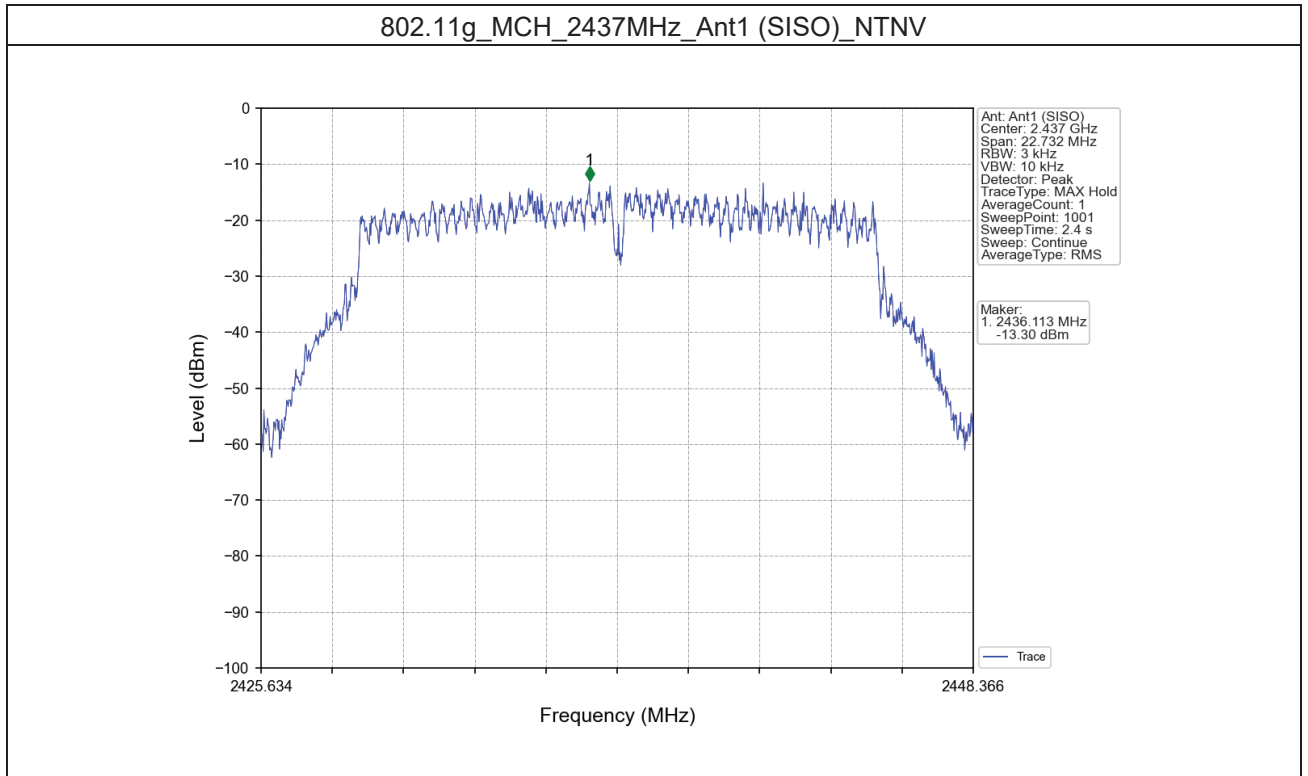


### 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



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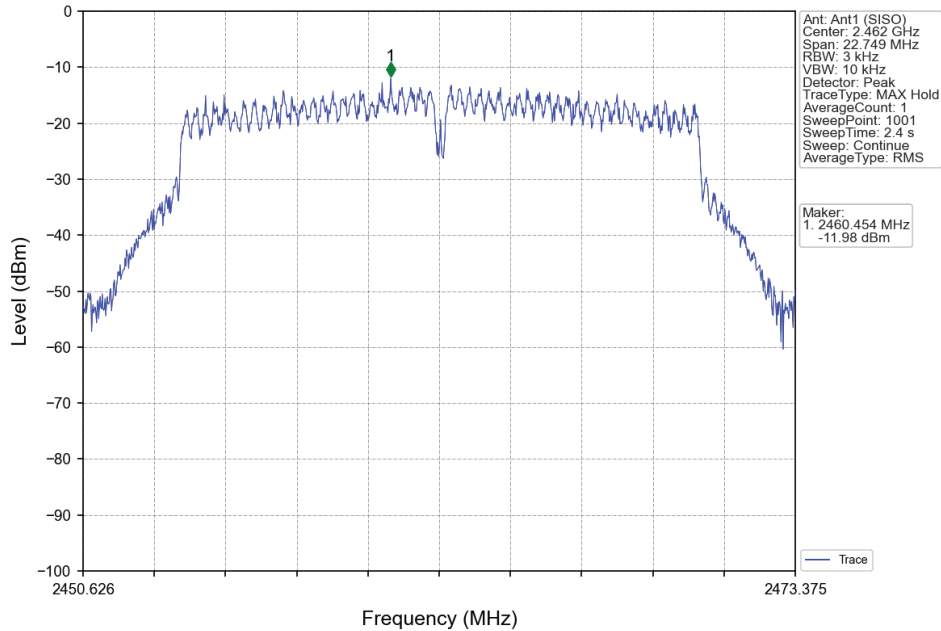


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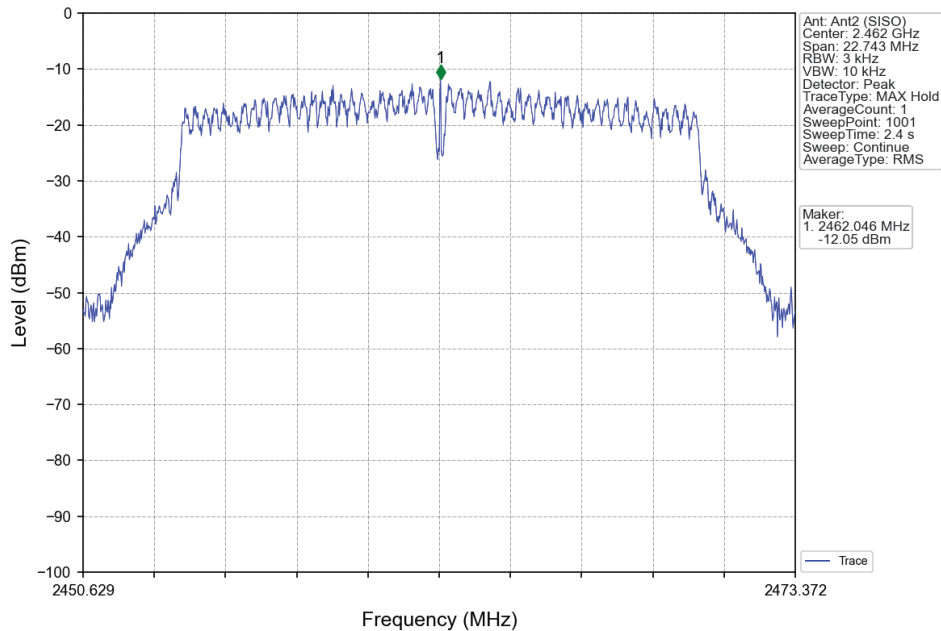
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

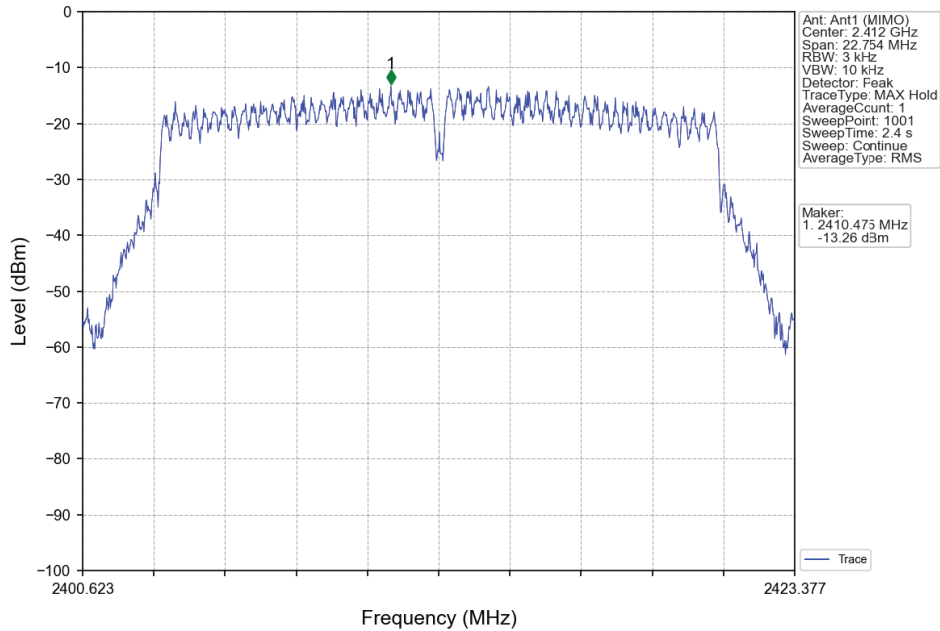


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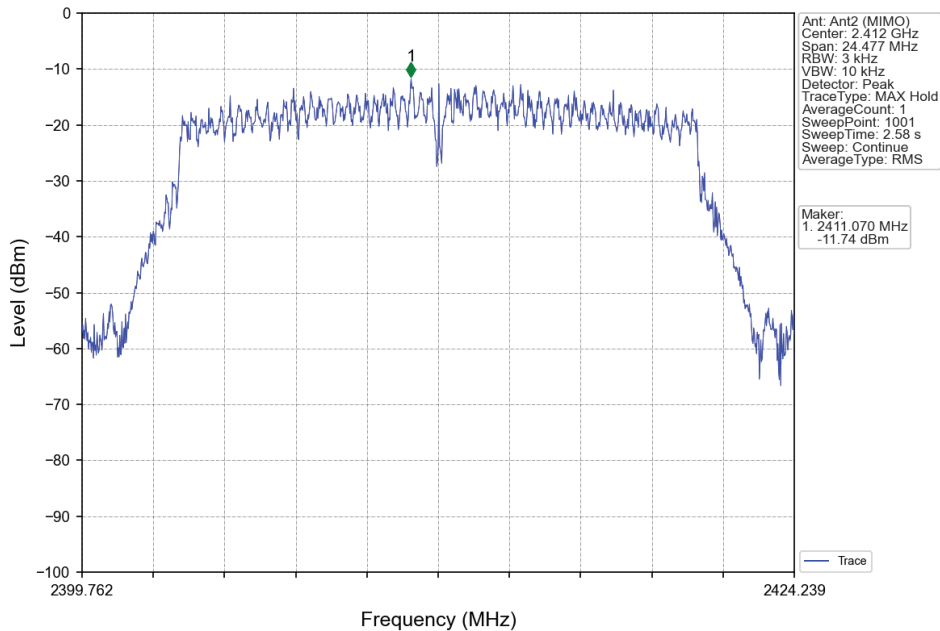
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



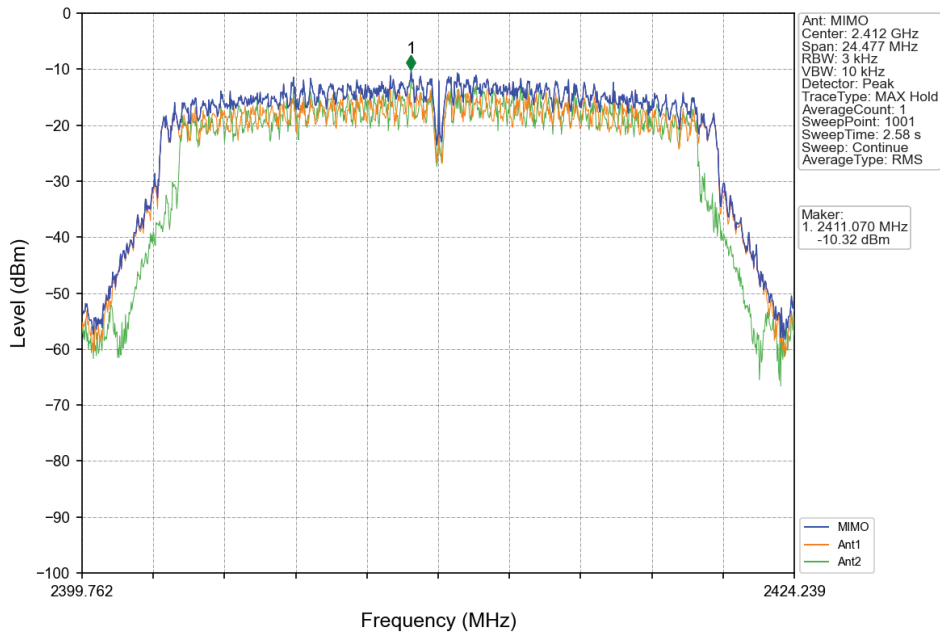
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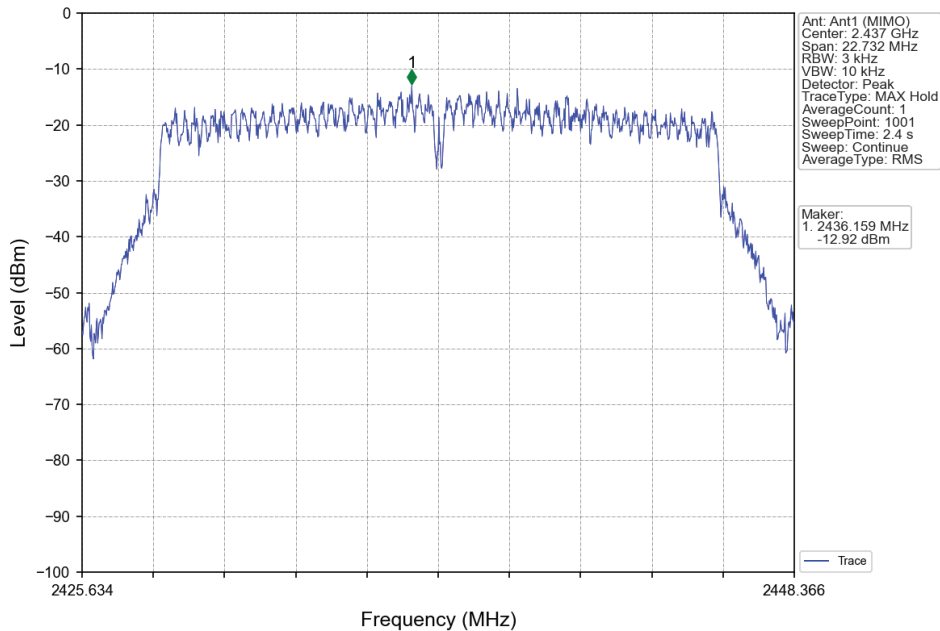
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### 802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



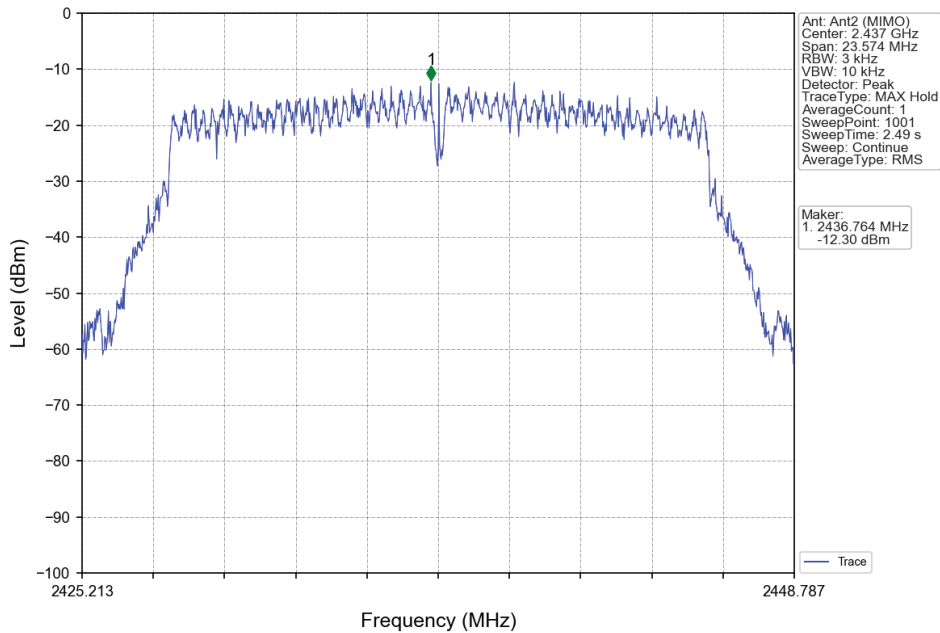
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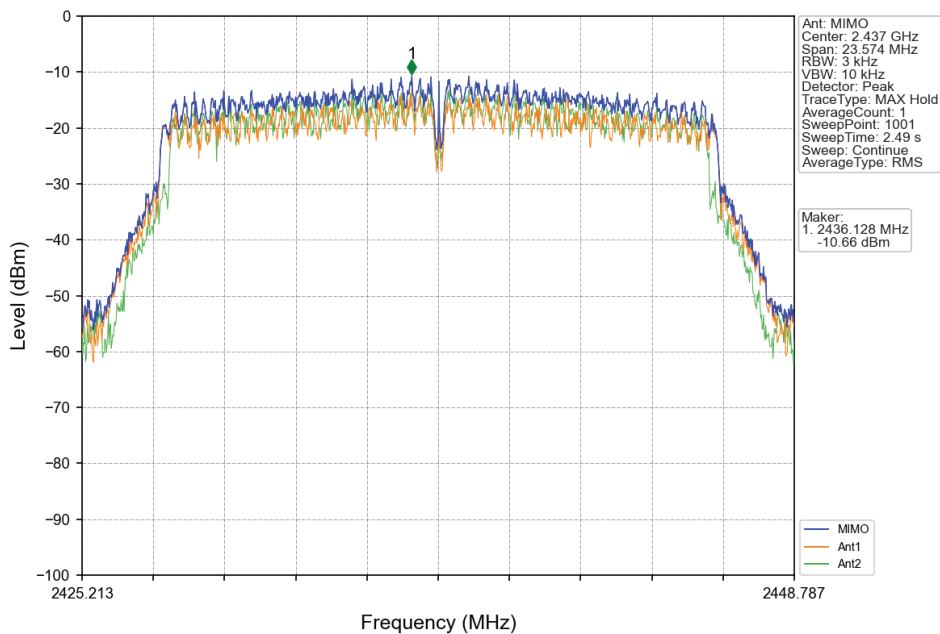
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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



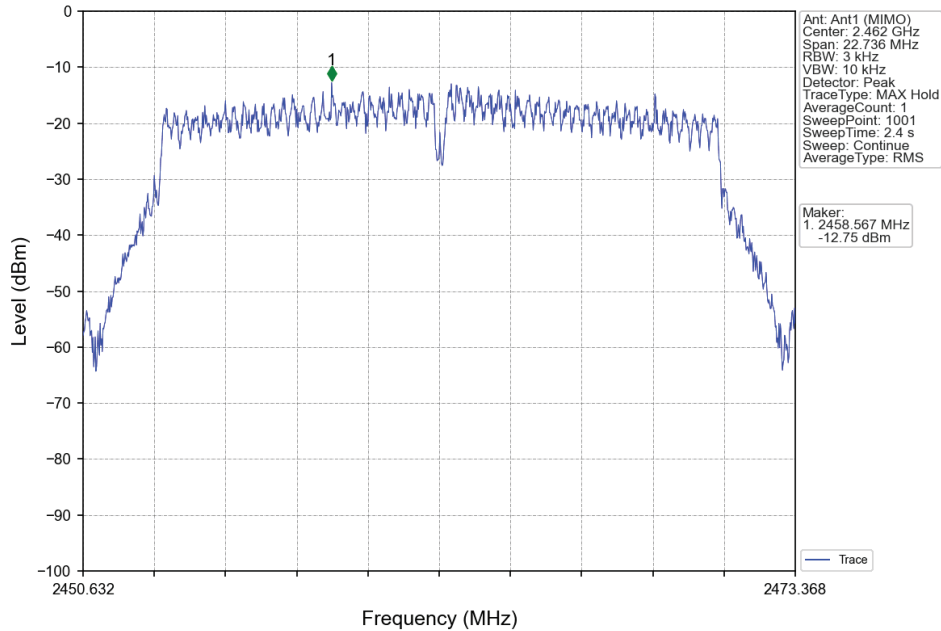
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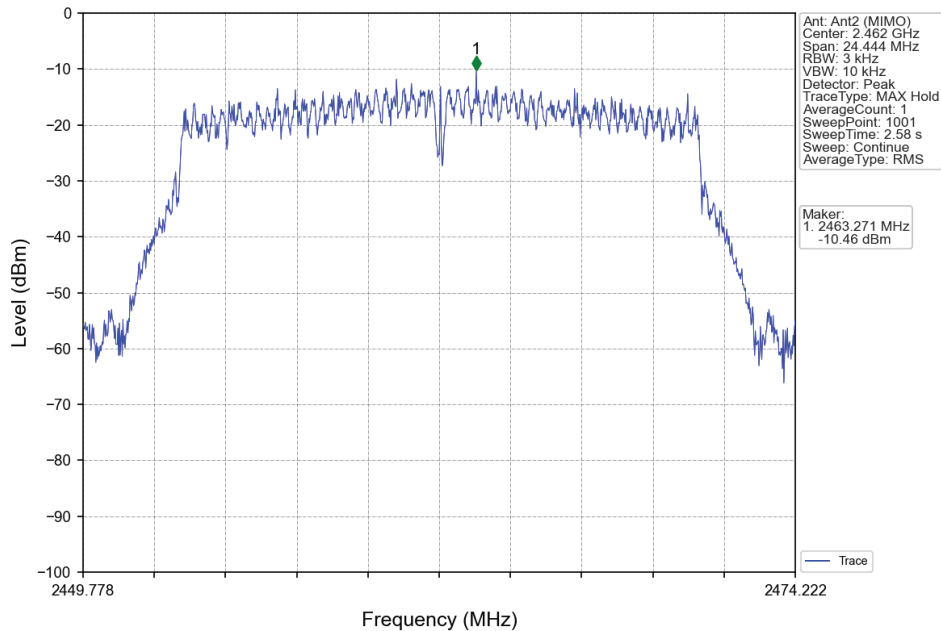
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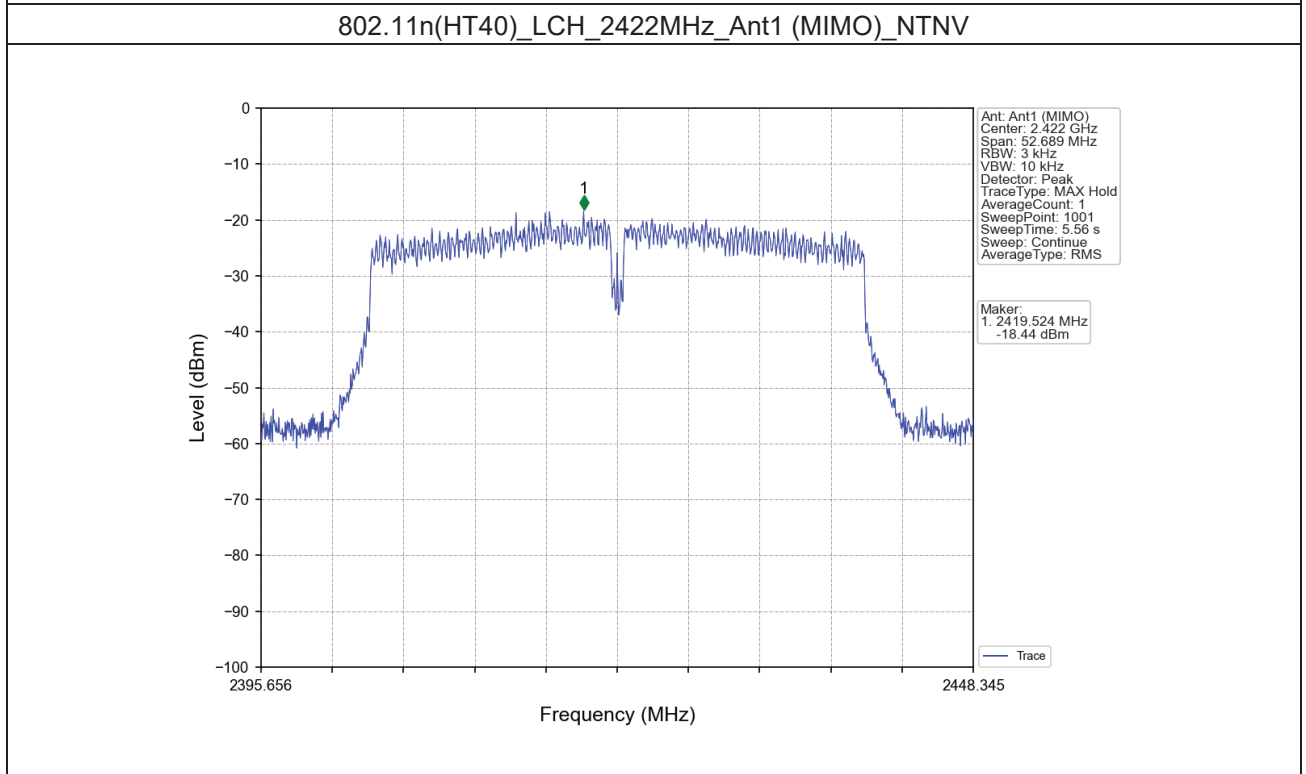
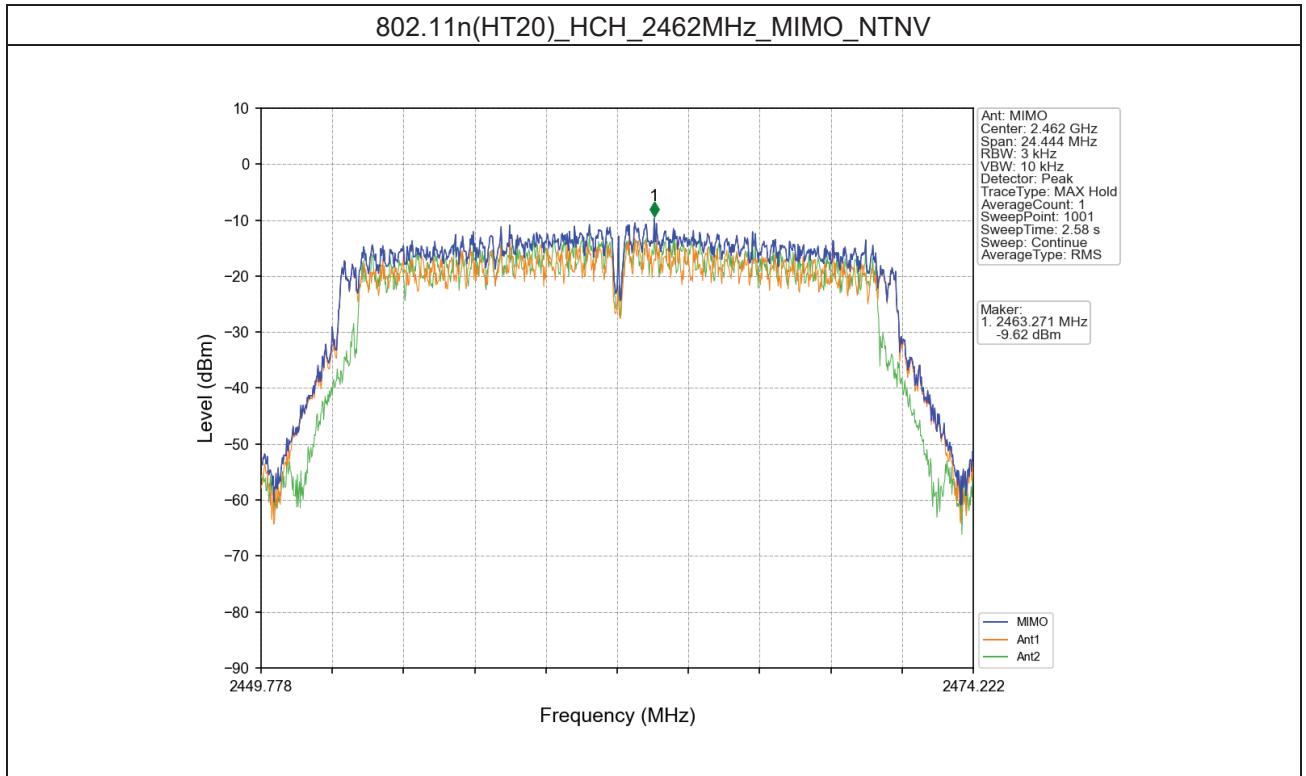
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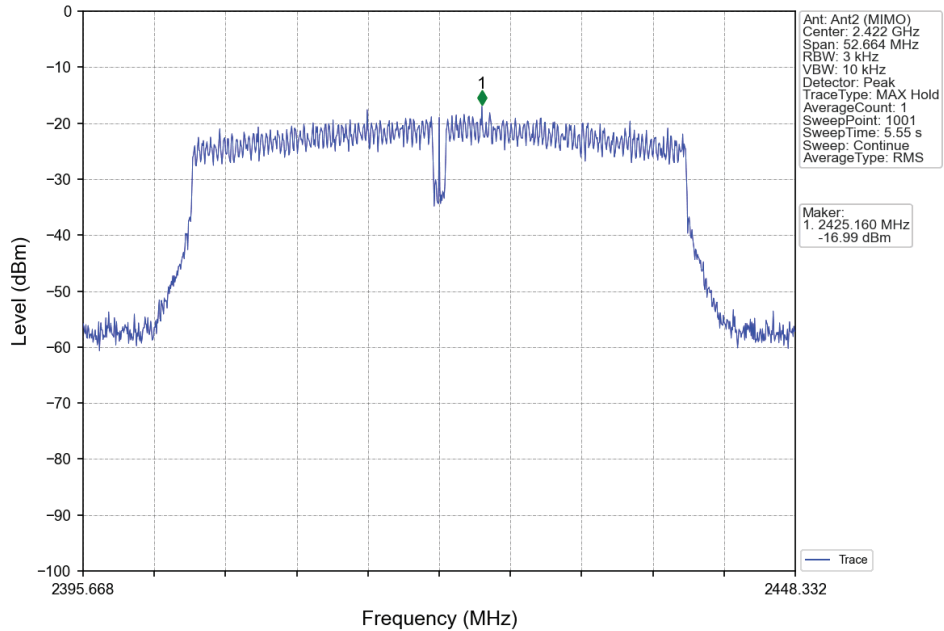


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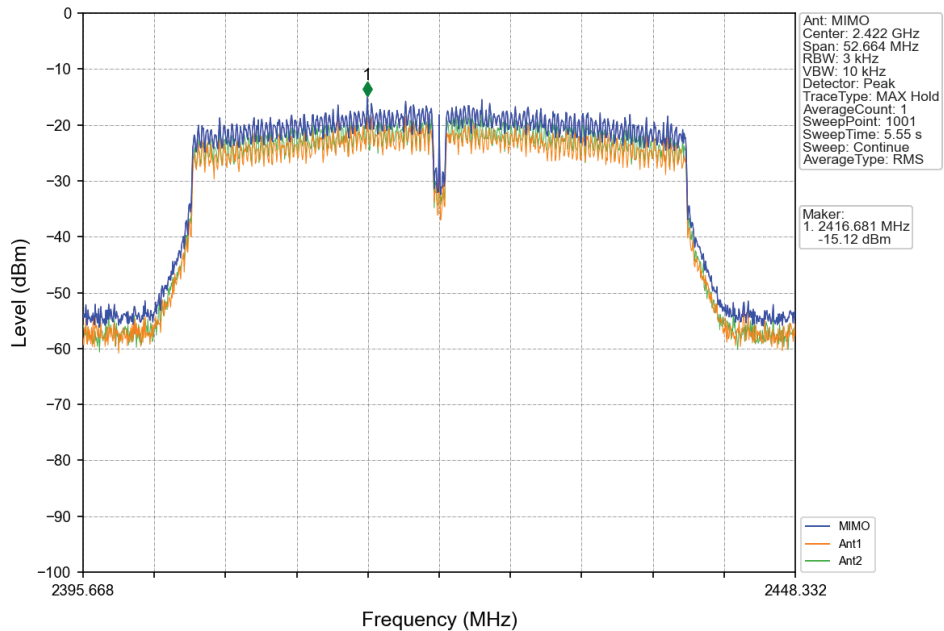
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



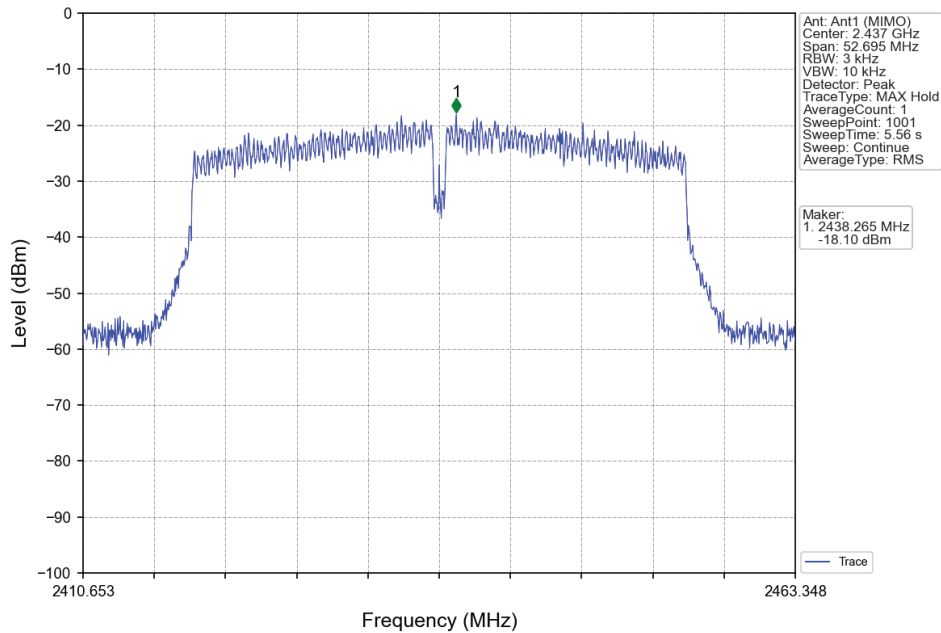
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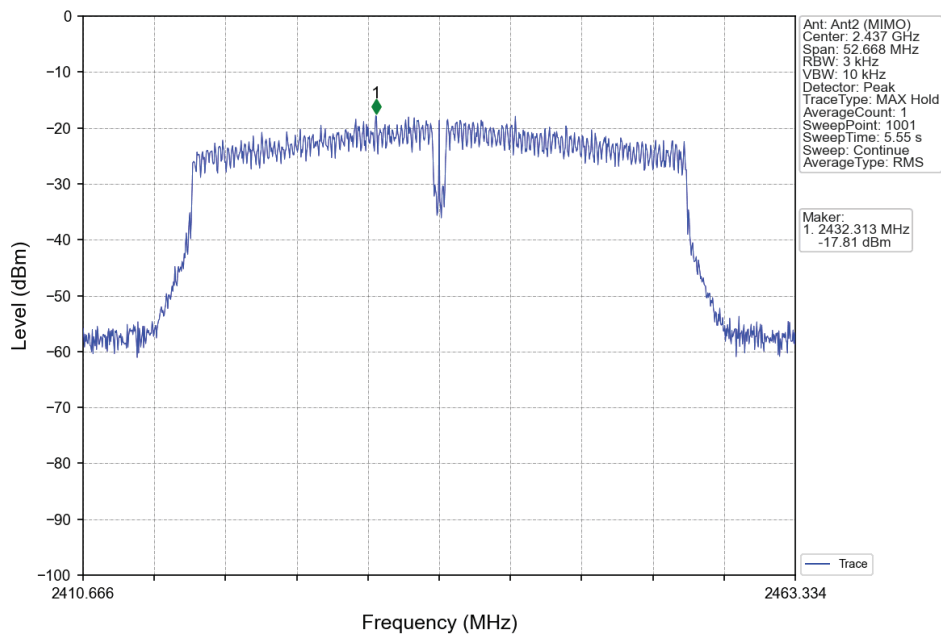
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



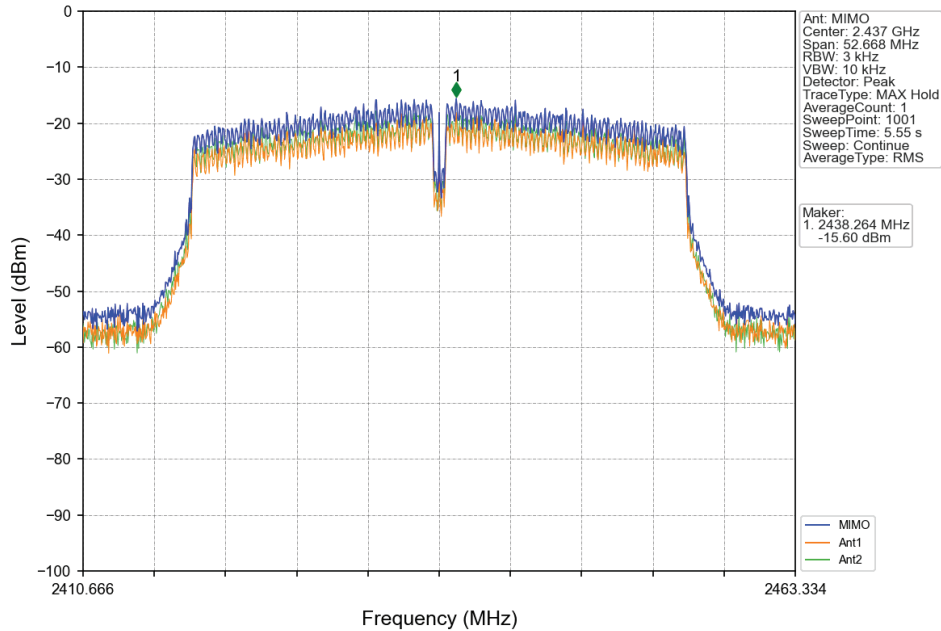
### 802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



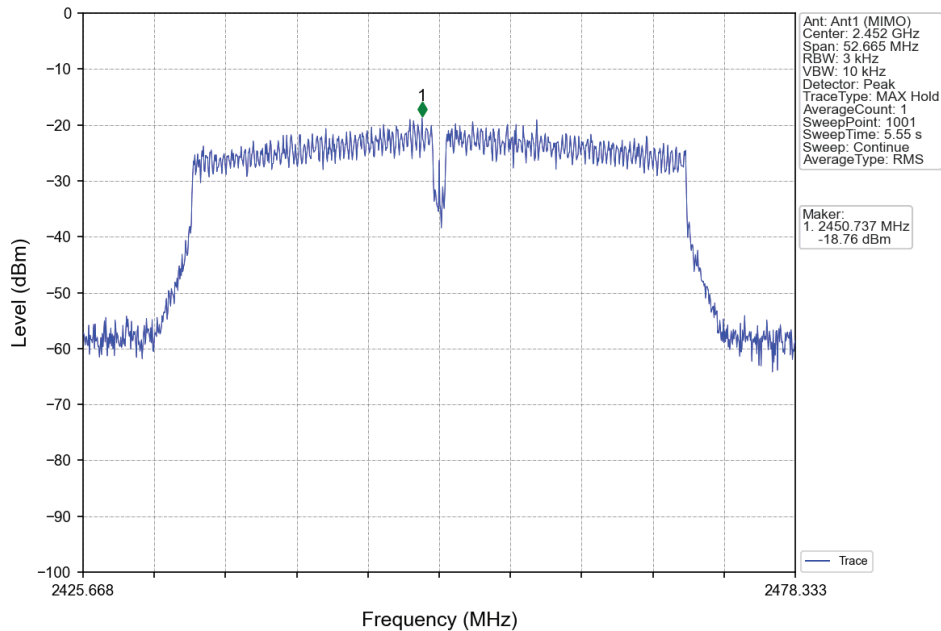
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### 802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



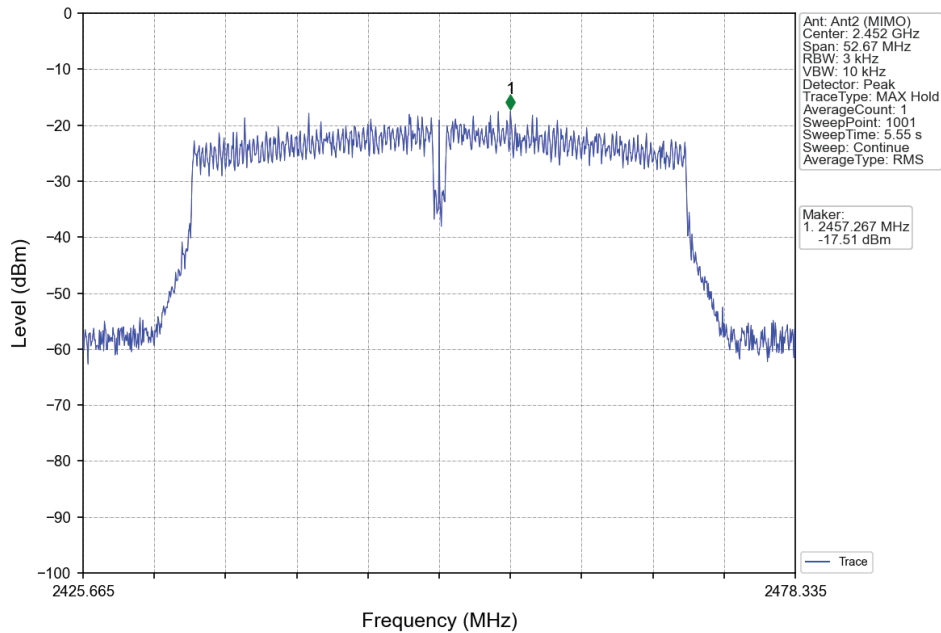
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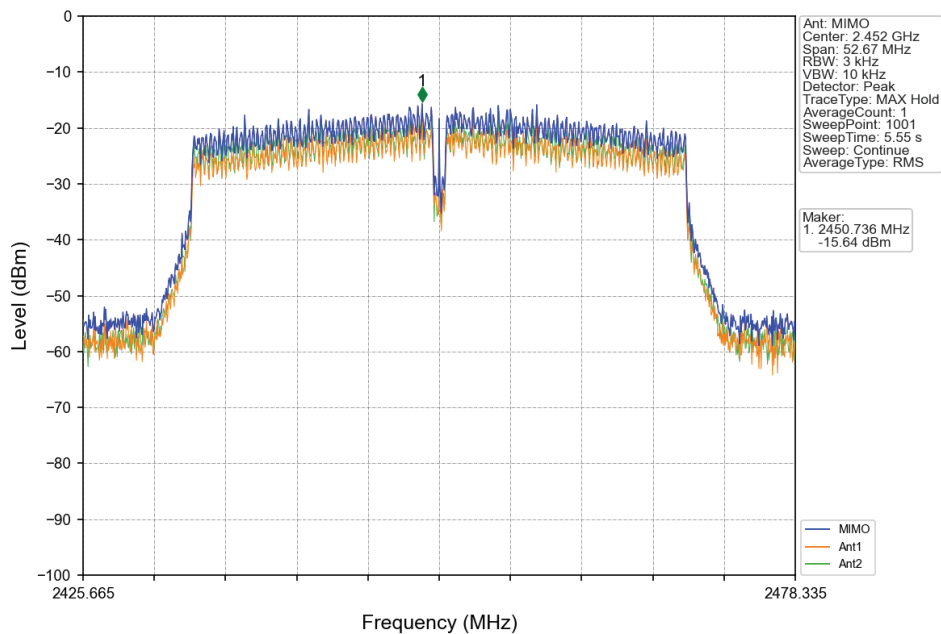
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802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_MIMO\_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	5.43
			2	6.17
		2437	1	6.12
			2	6.71
		2462	1	5.48
			2	6.64
802.11g	SISO	2412	1	2.02
			2	2.92
		2437	1	1.97
			2	2.79
		2462	1	1.85
			2	2.94
802.11n (HT20)	MIMO	2412	1	1.73
			2	2.92
		2437	1	1.78
			2	2.87
		2462	1	2.36
			2	3.06
802.11n (HT40)	MIMO	2422	1	-4.24
			2	-3.27
		2437	1	-3.90
			2	-2.95
		2452	1	-4.23
			2	-3.34

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.

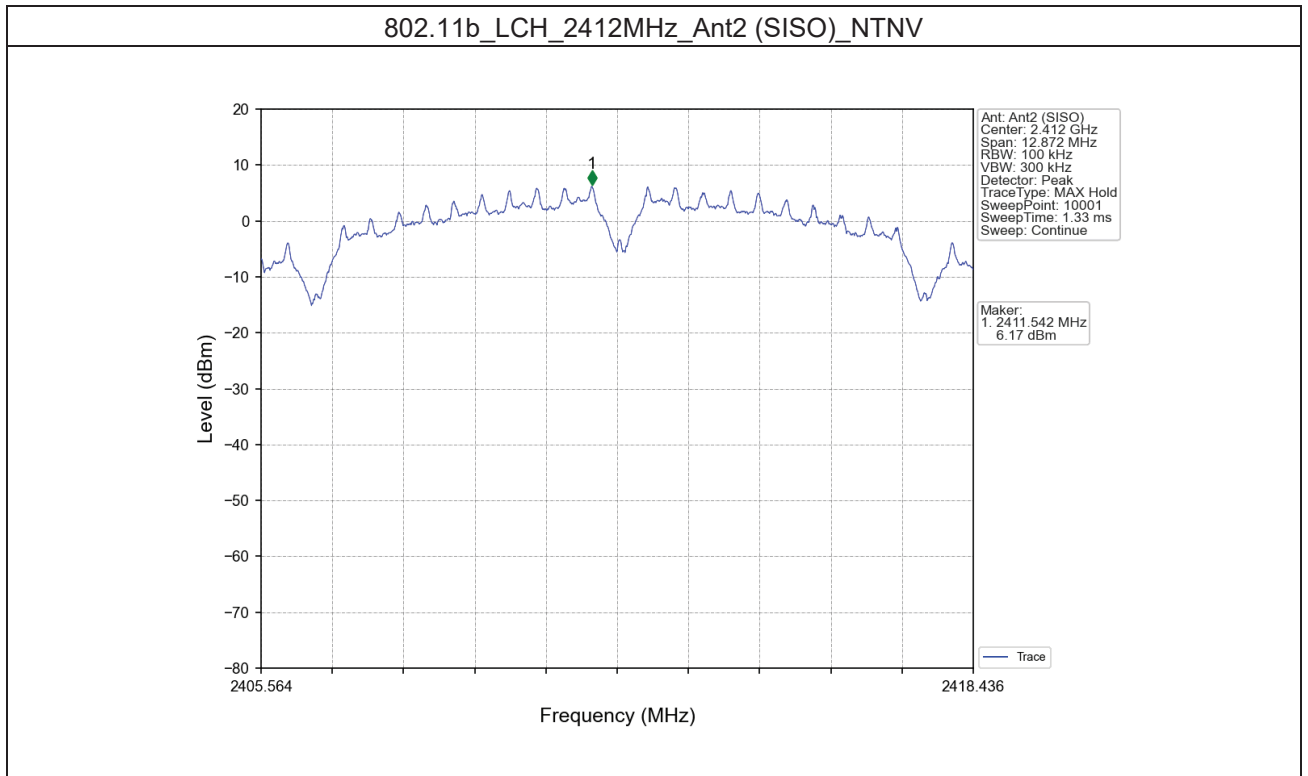
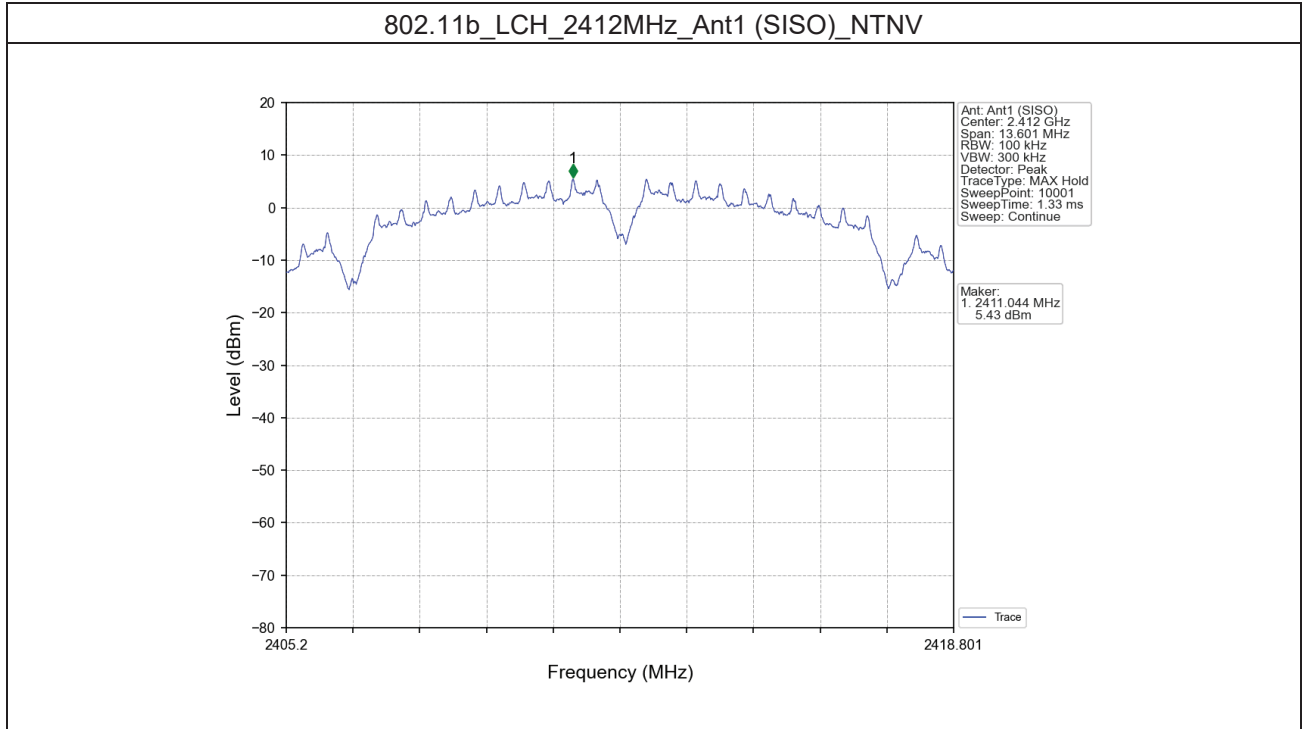


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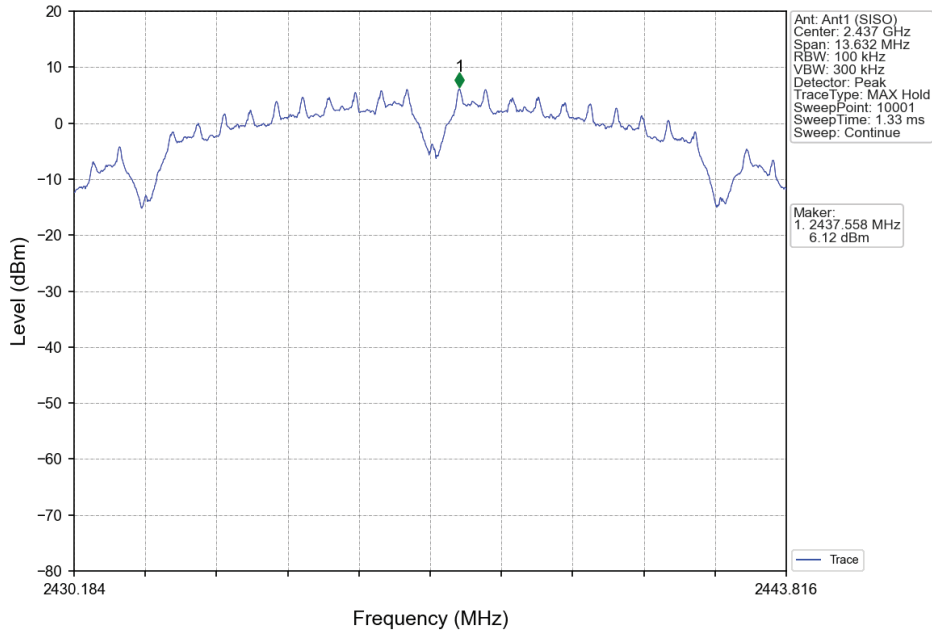
5.1.2 Test Graph



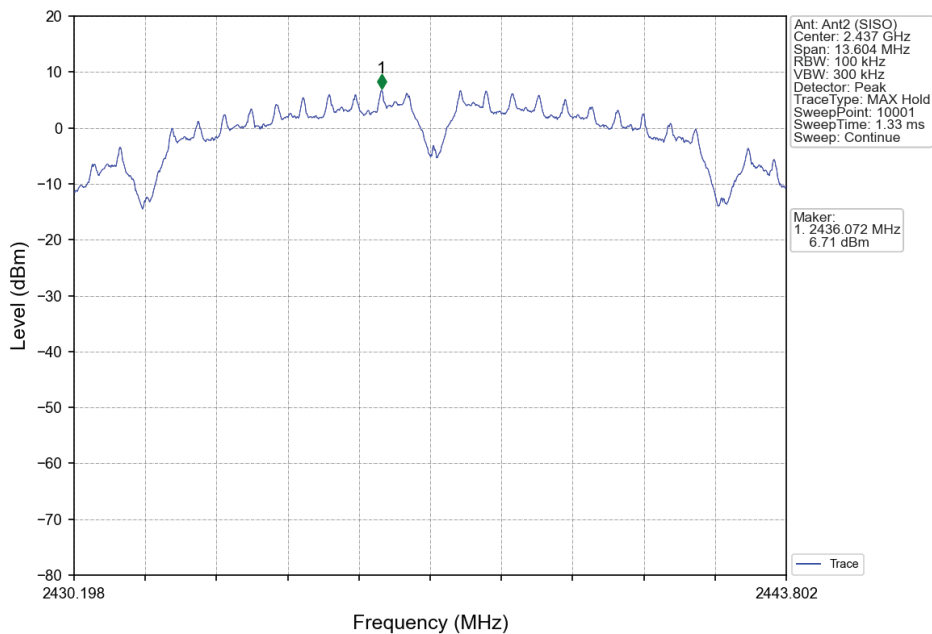
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



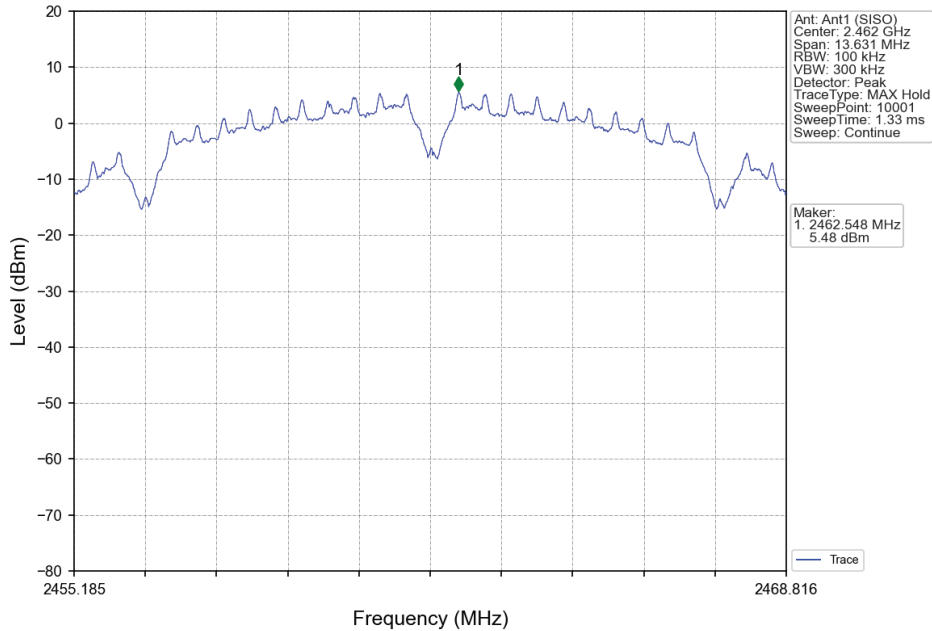
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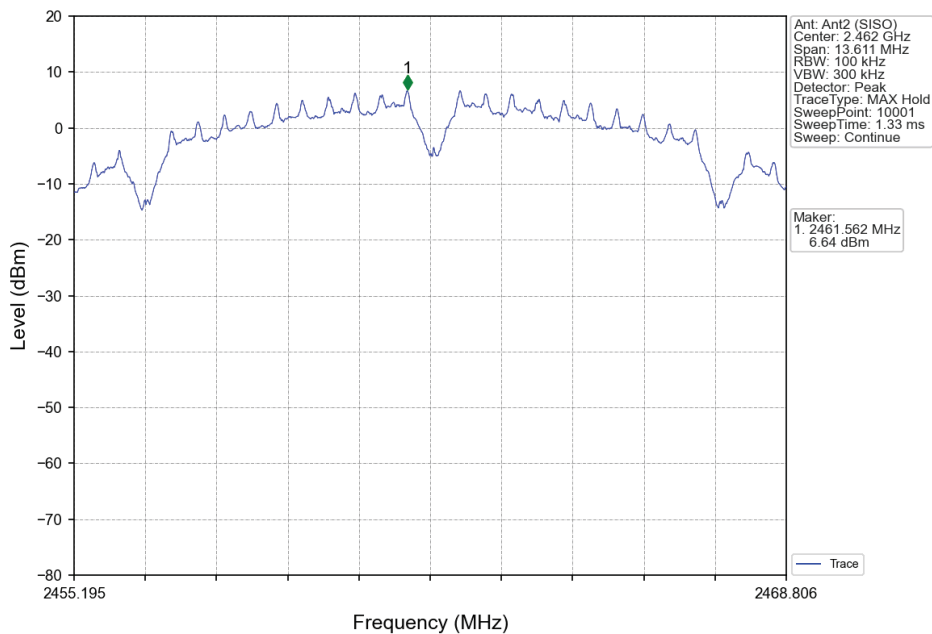
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



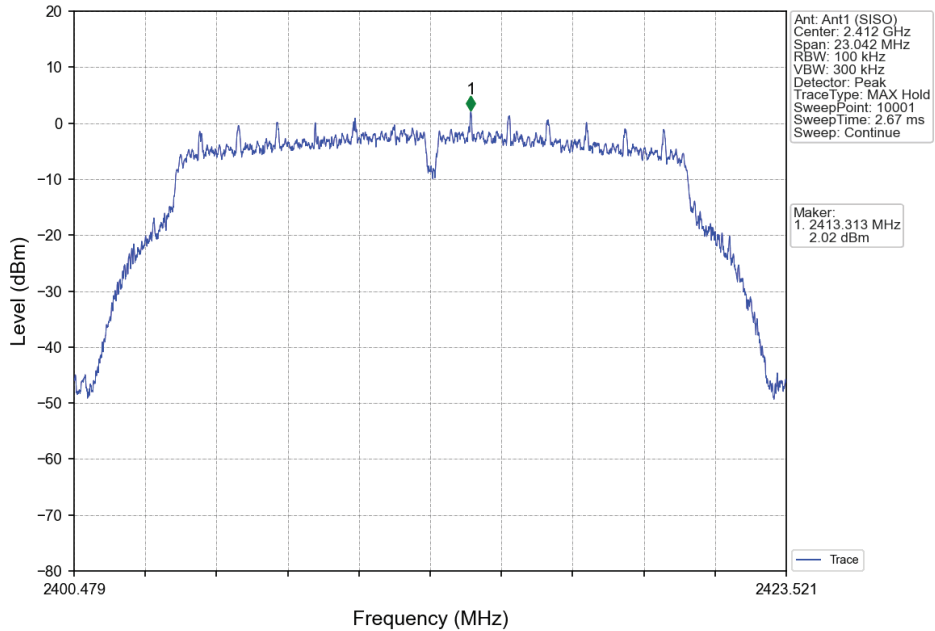
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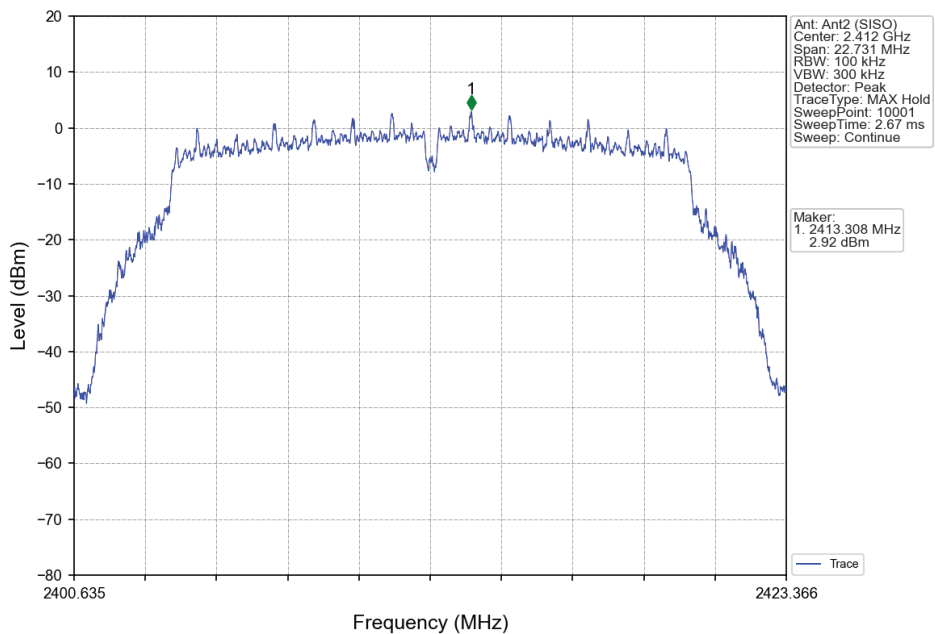
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



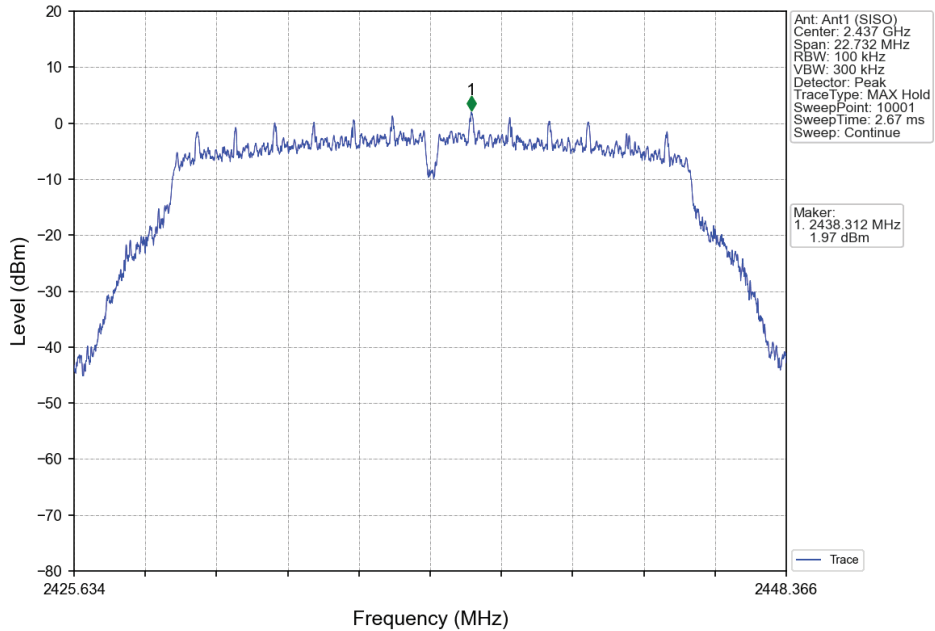
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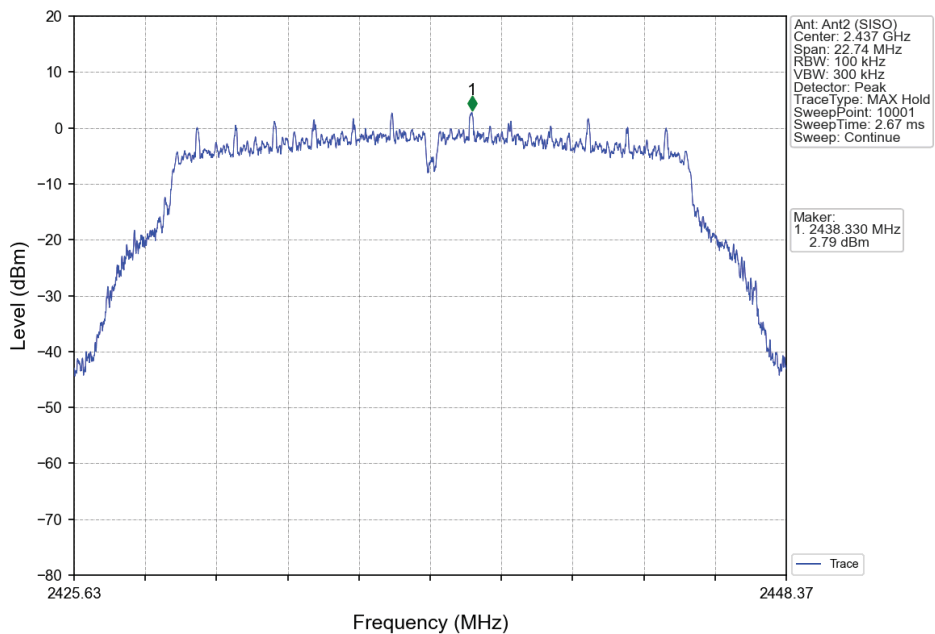
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

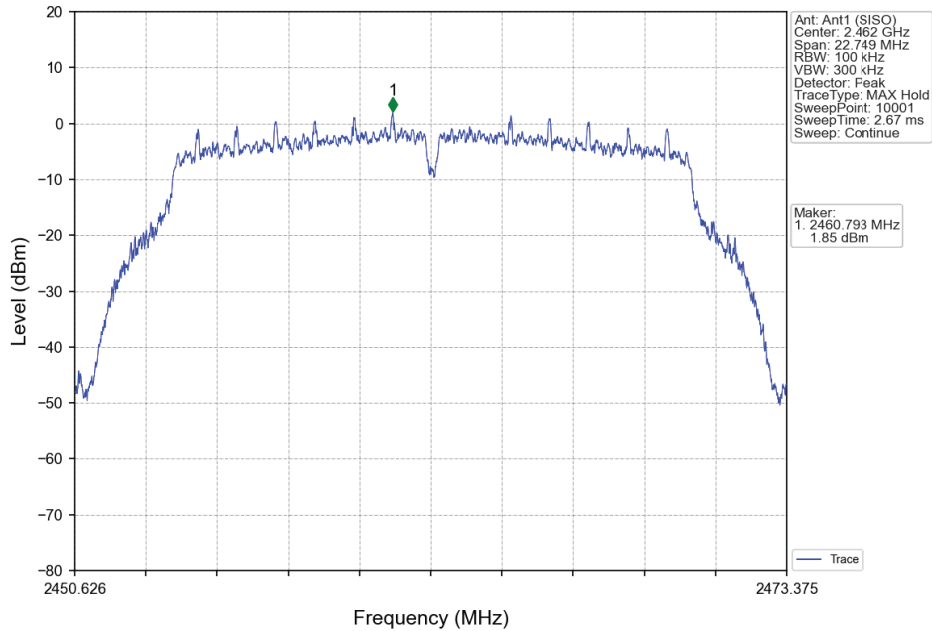


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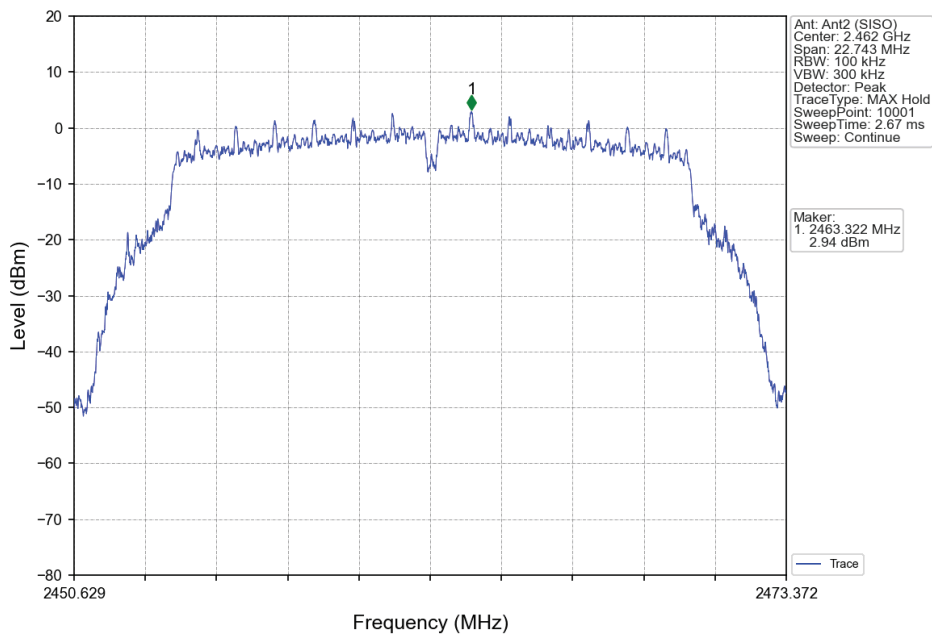
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



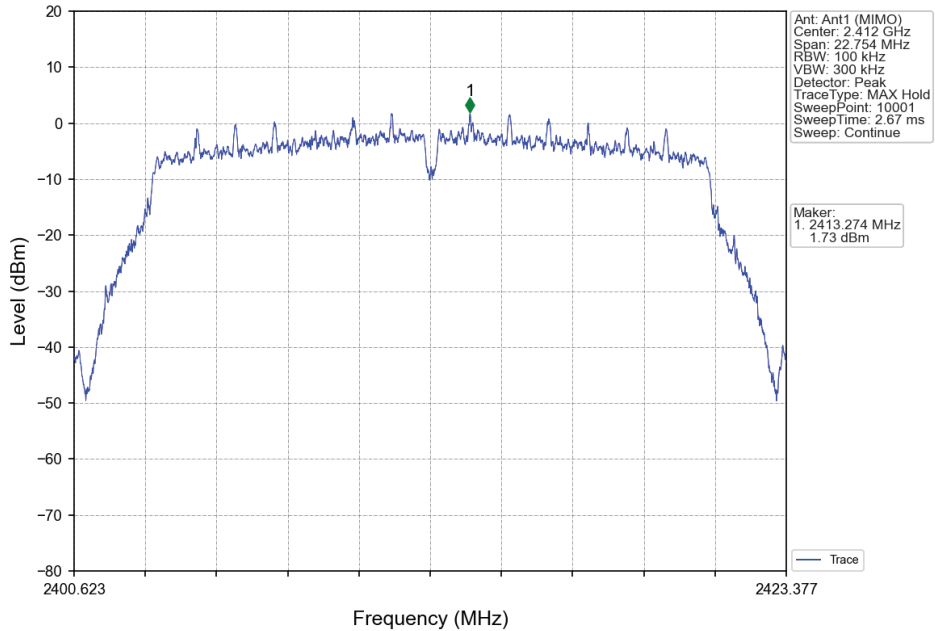
### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



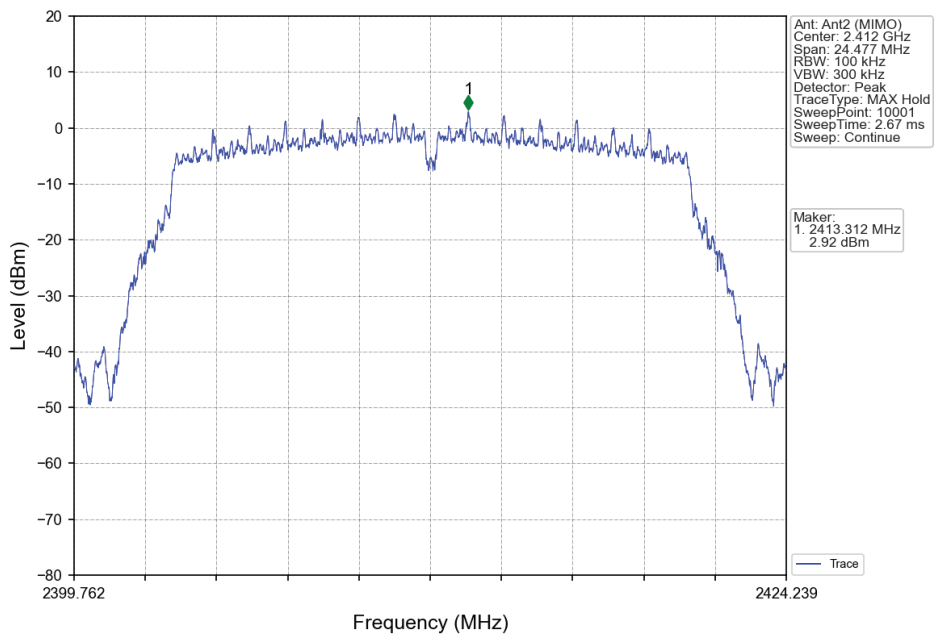
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



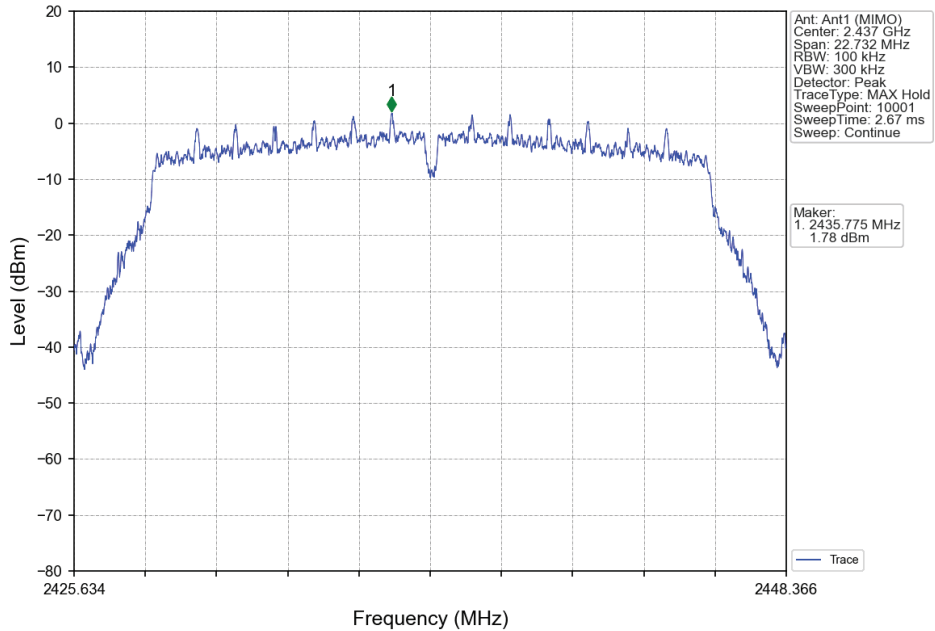
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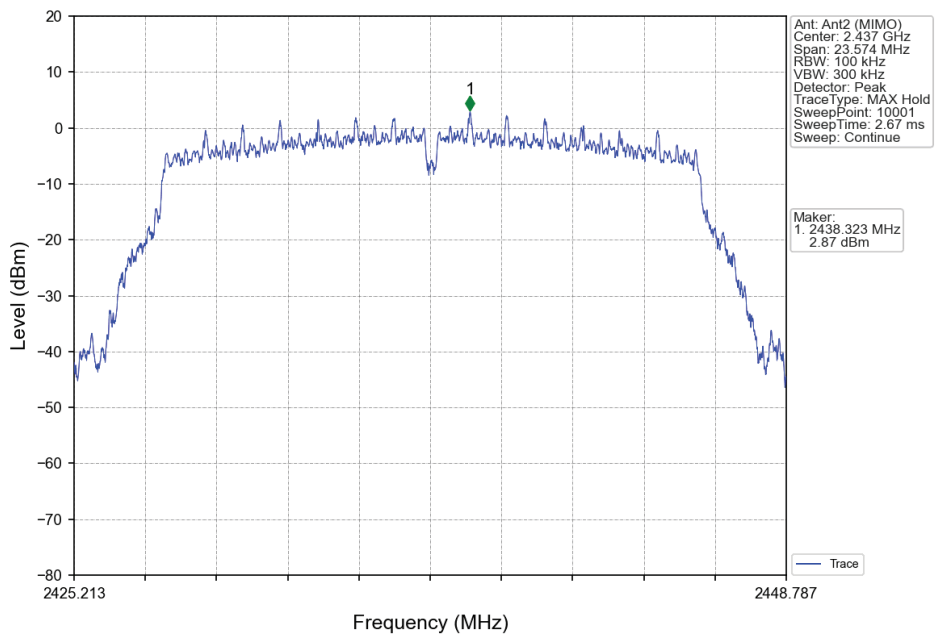
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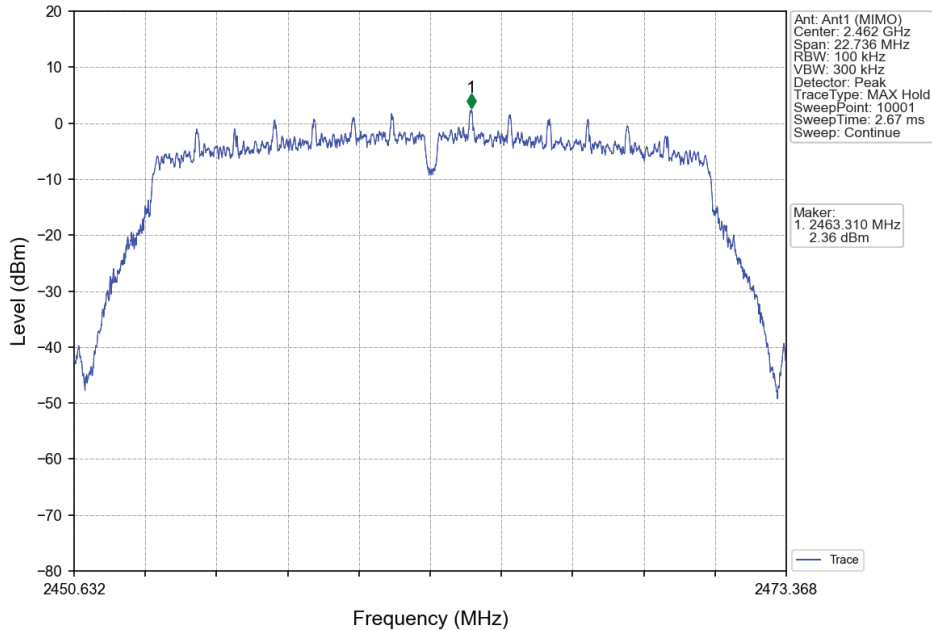
### 802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



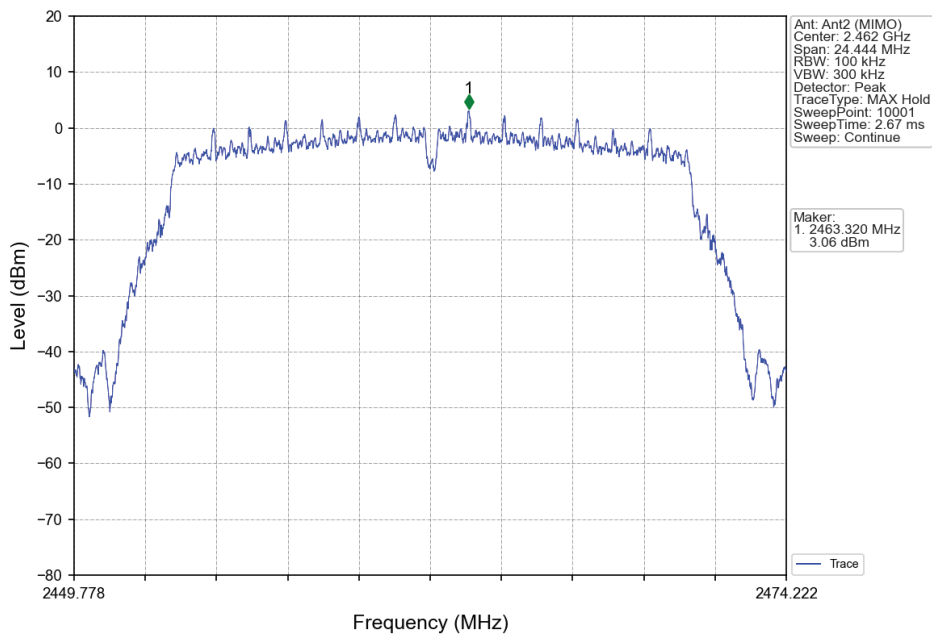
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



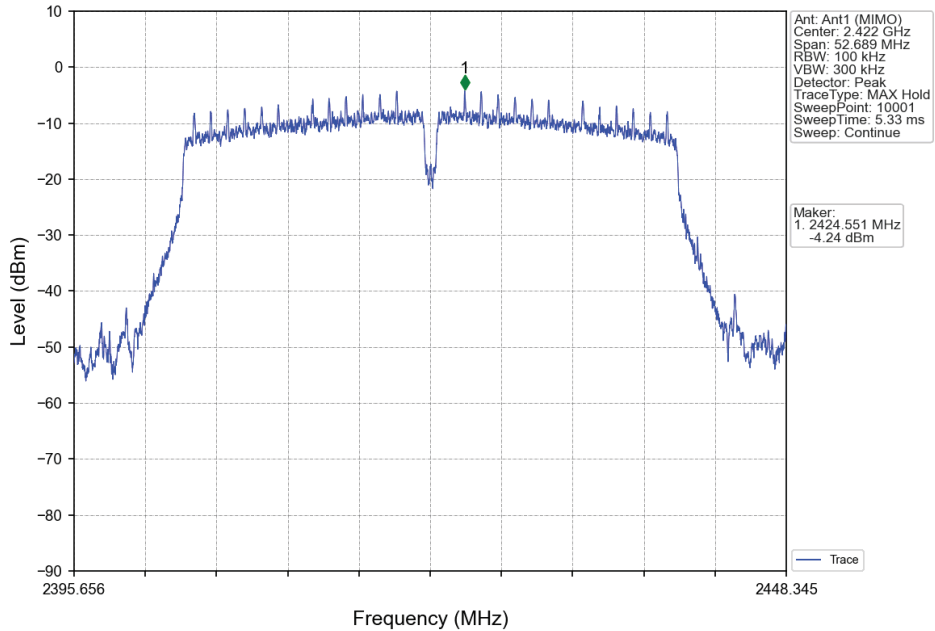
802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



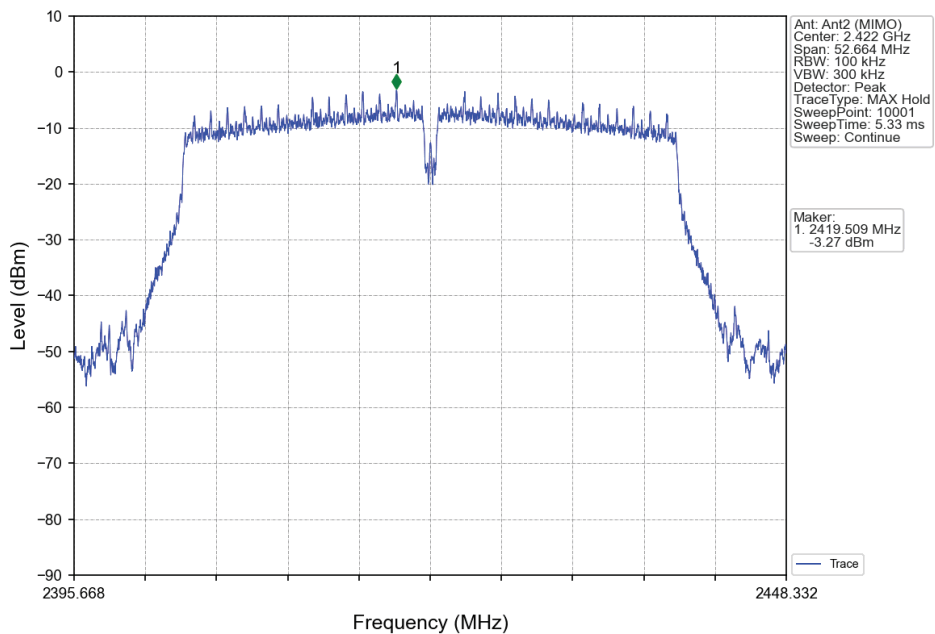
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

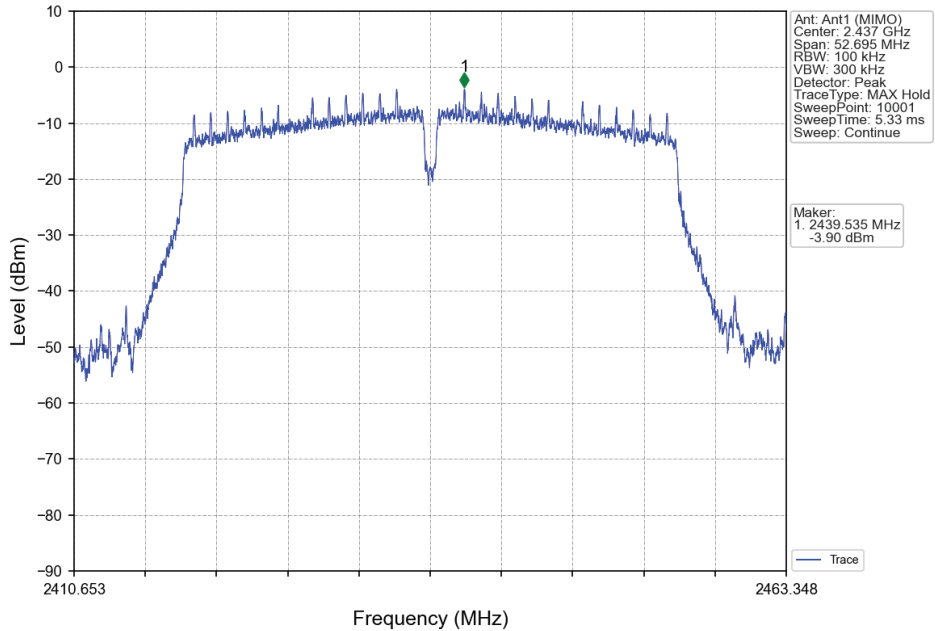


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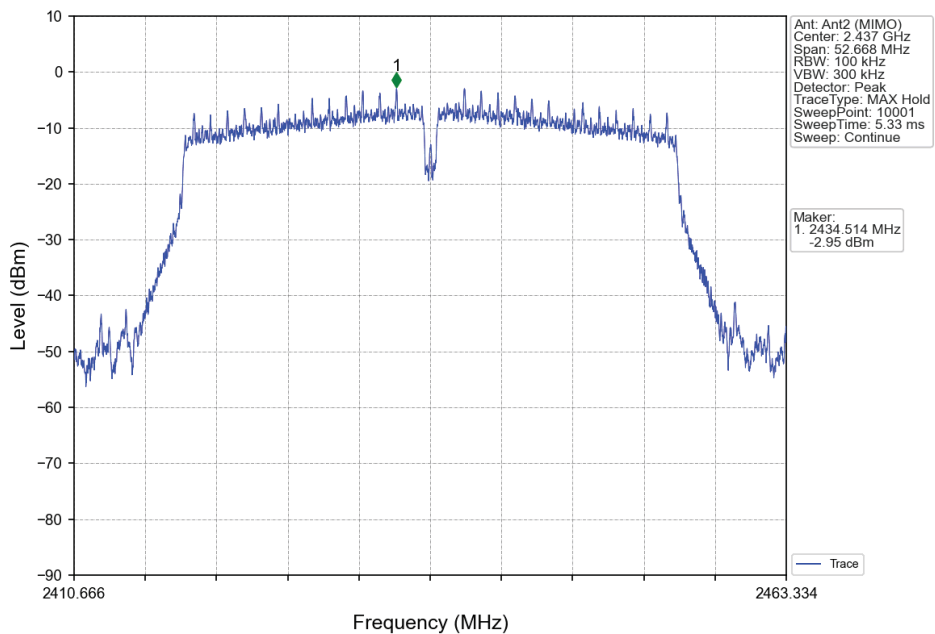
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



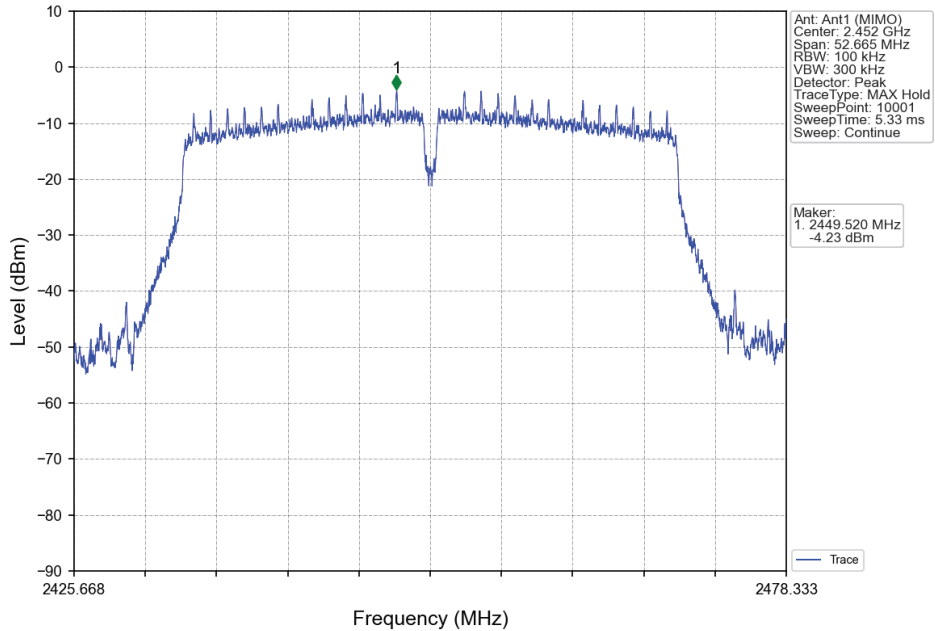
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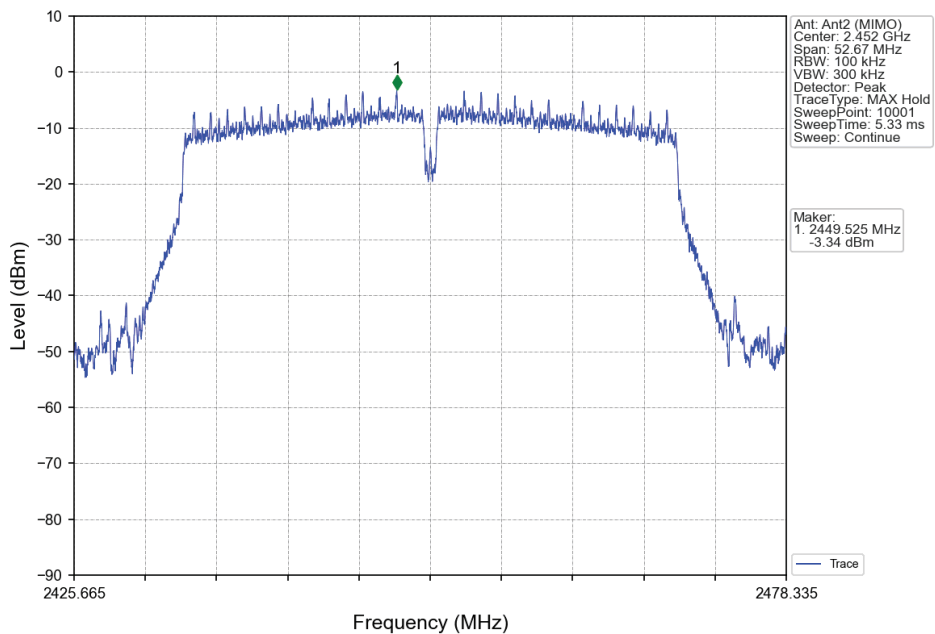
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_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	6.12	-23.88	Pass
			2	6.71	-23.29	Pass
		2437	1	6.12	-23.88	Pass
			2	6.71	-23.29	Pass
		2462	1	6.12	-23.88	Pass
			2	6.71	-23.29	Pass
802.11g	SISO	2412	1	2.02	-27.98	Pass
			2	2.94	-27.06	Pass
		2437	1	2.02	-27.98	Pass
			2	2.94	-27.06	Pass
		2462	1	2.02	-27.98	Pass
			2	2.94	-27.06	Pass
802.11n (HT20)	MIMO	2412	1	2.36	-27.64	Pass
			2	3.06	-26.94	Pass
		2437	1	2.36	-27.64	Pass
			2	3.06	-26.94	Pass
		2462	1	2.36	-27.64	Pass
			2	3.06	-26.94	Pass
802.11n (HT40)	MIMO	2422	1	-3.90	-33.90	Pass
			2	-2.95	-32.95	Pass
		2437	1	-3.90	-33.90	Pass
			2	-2.95	-32.95	Pass
		2452	1	-3.90	-33.90	Pass
			2	-2.95	-32.95	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.

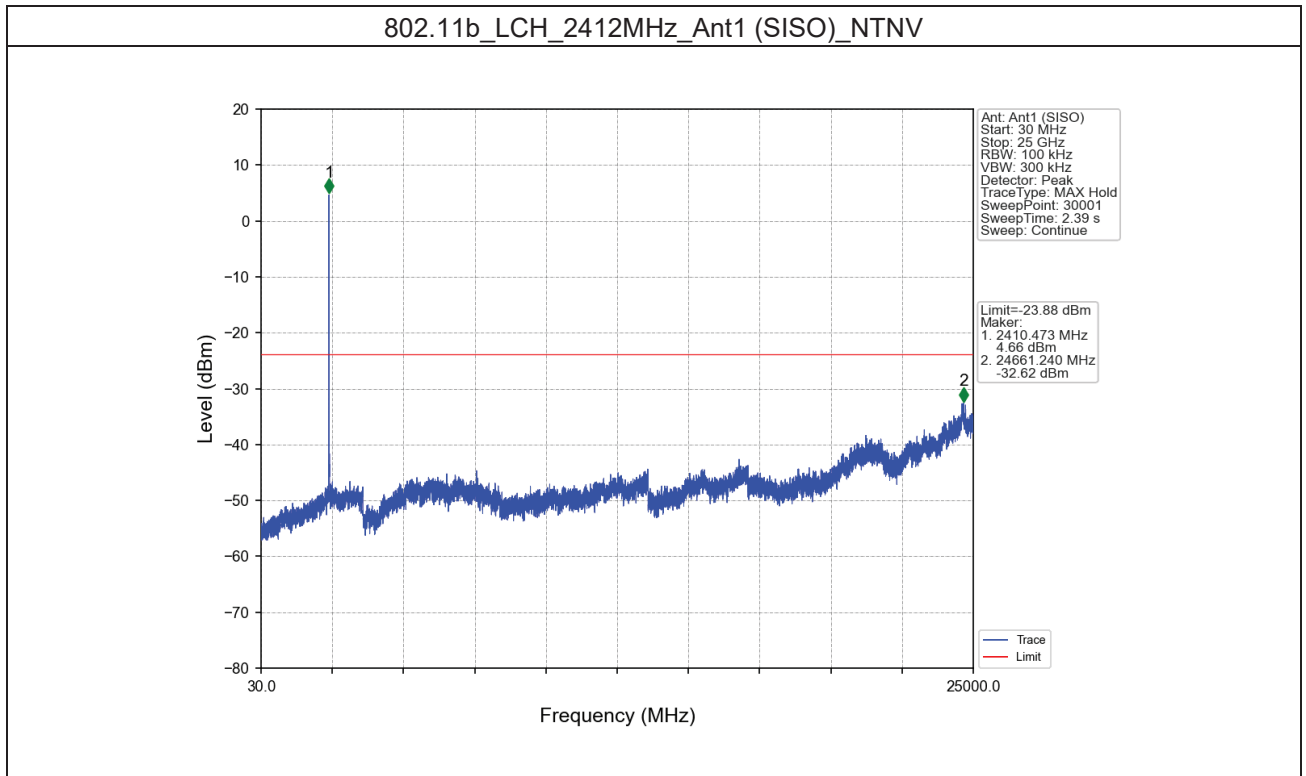
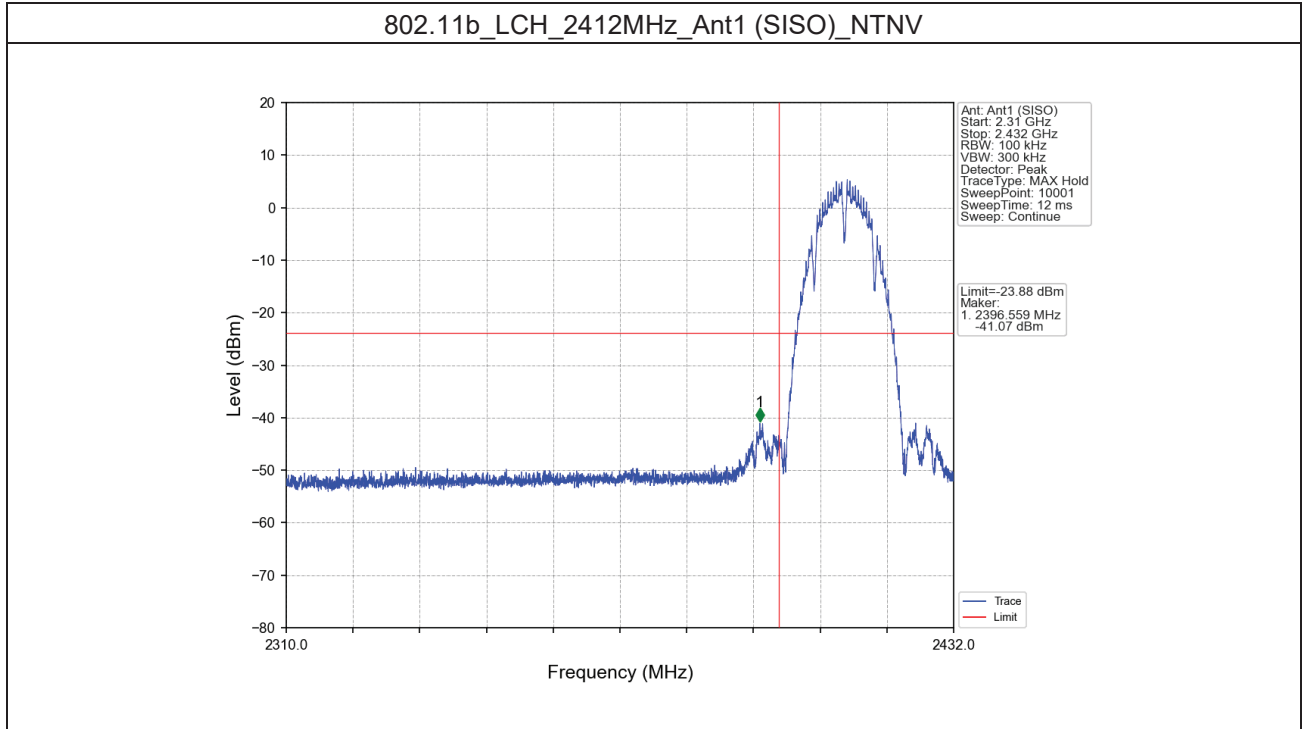
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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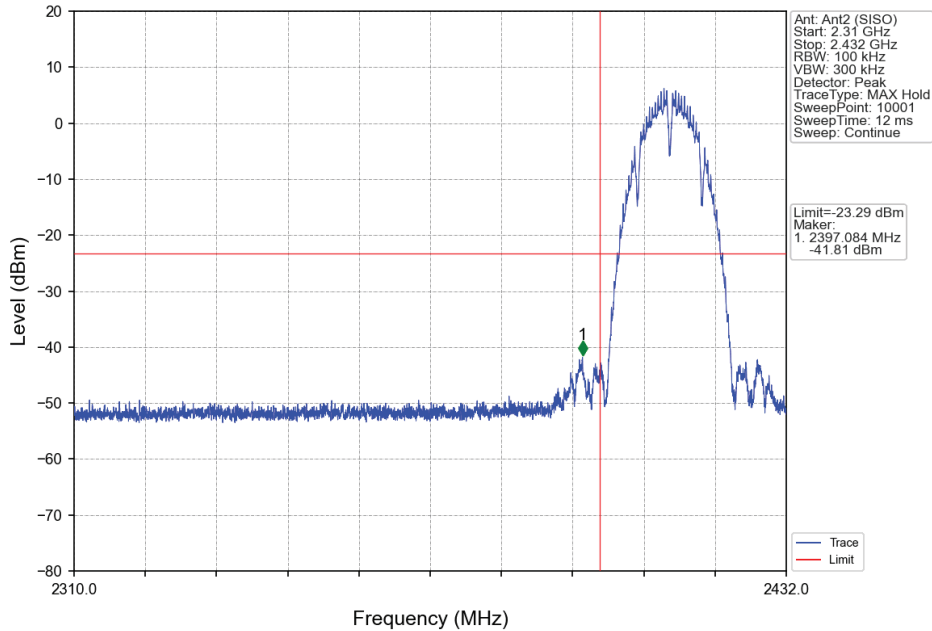
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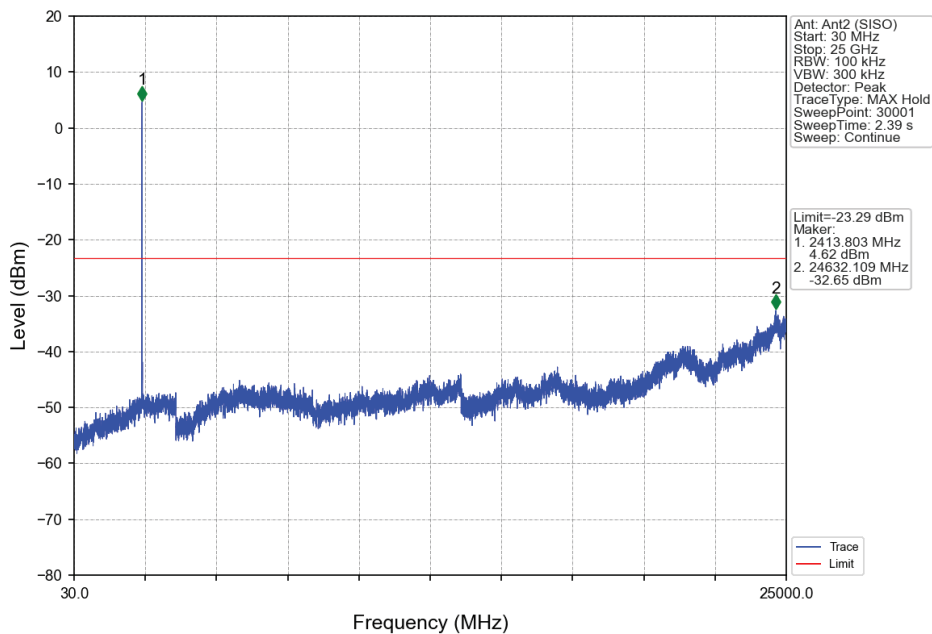
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### 802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



### 802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

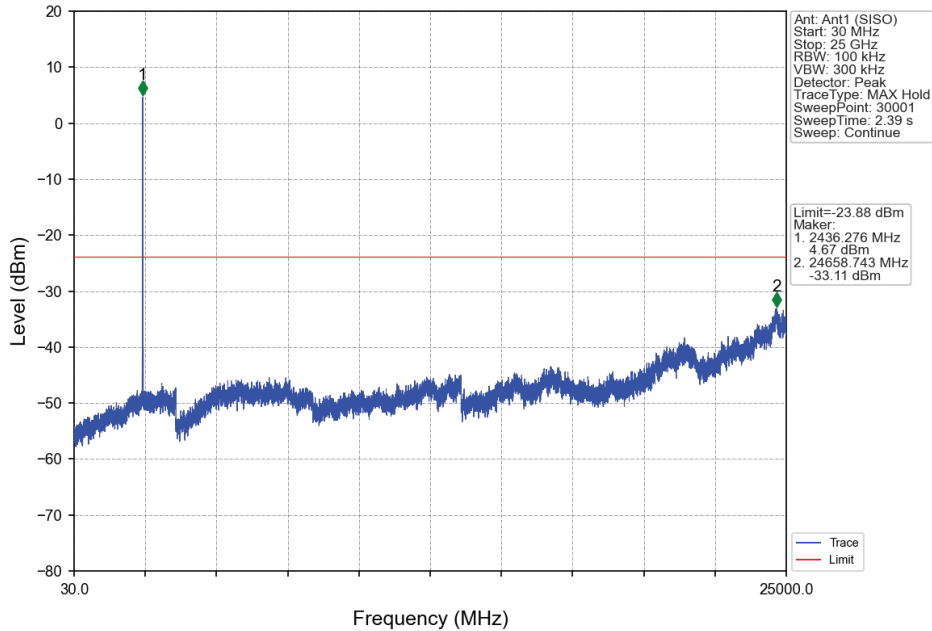


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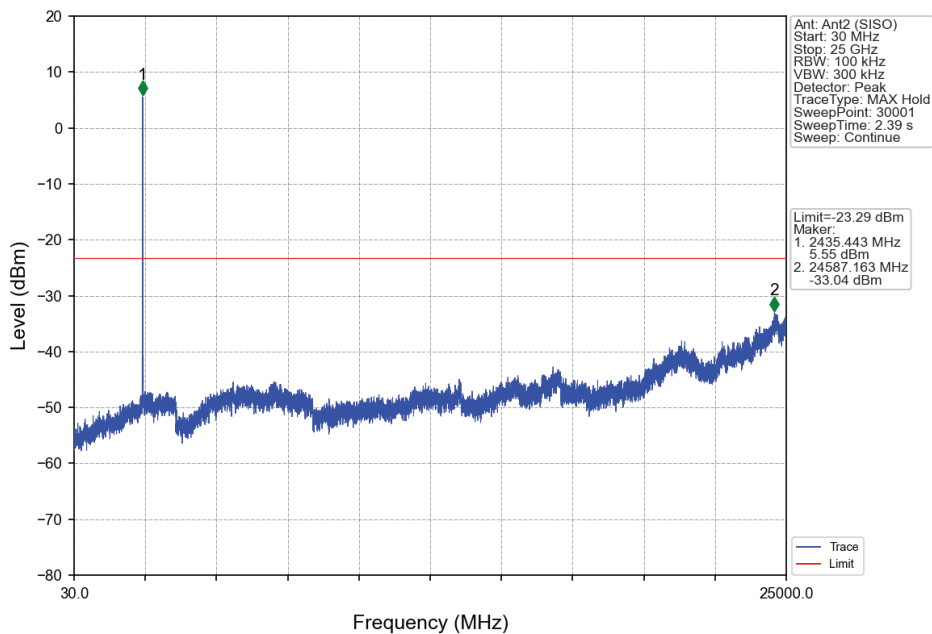
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



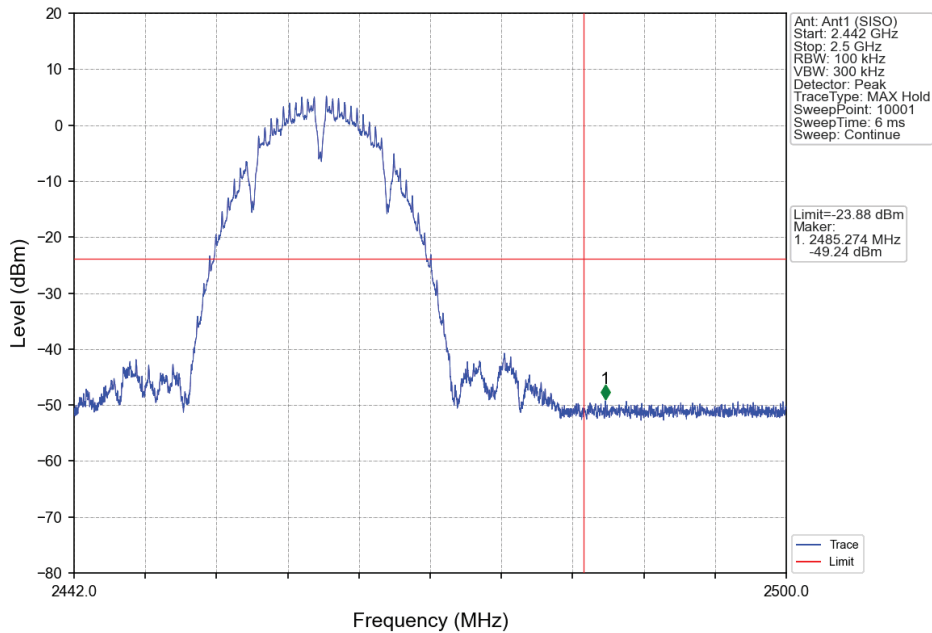
### 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



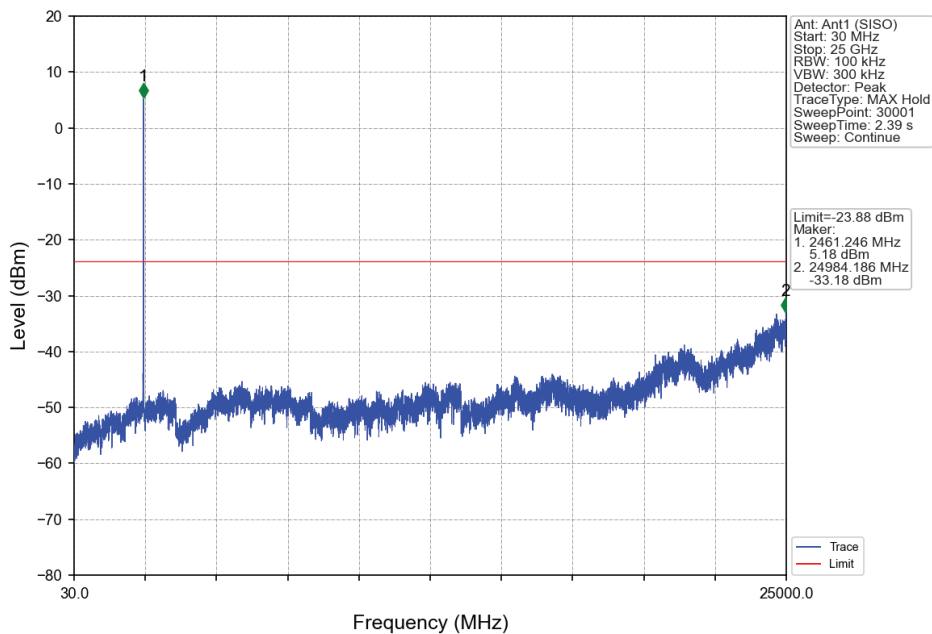
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



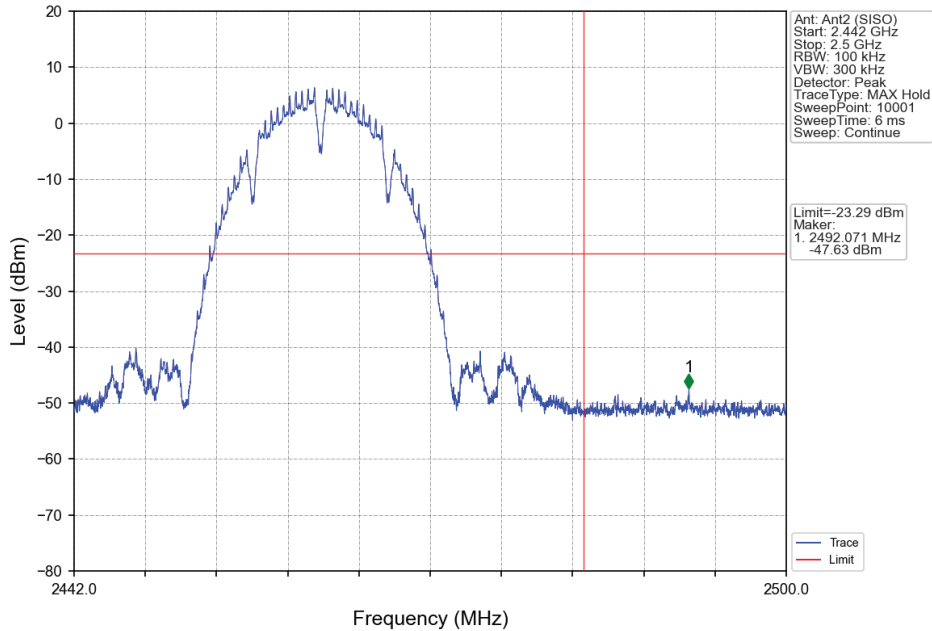
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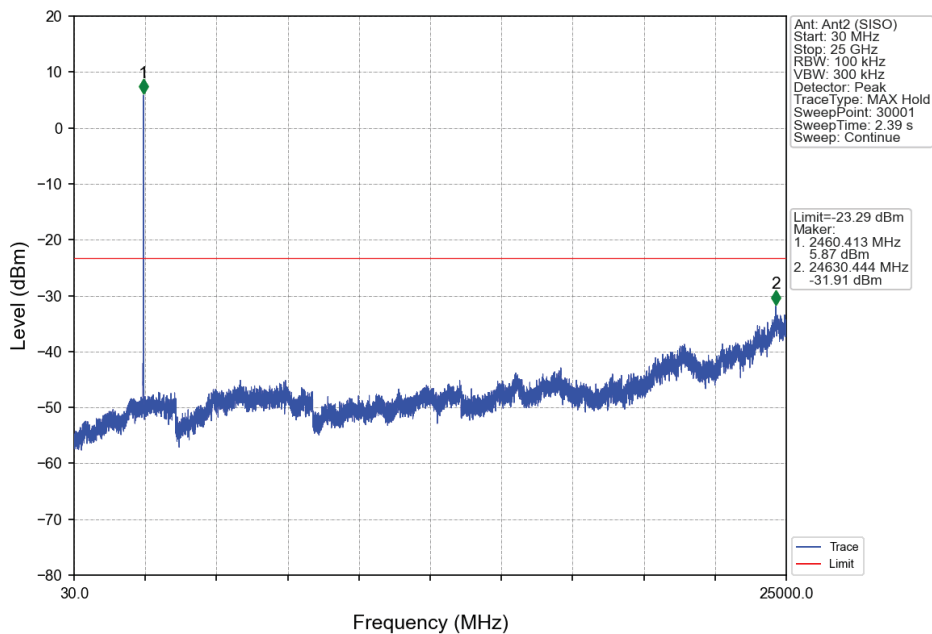
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### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



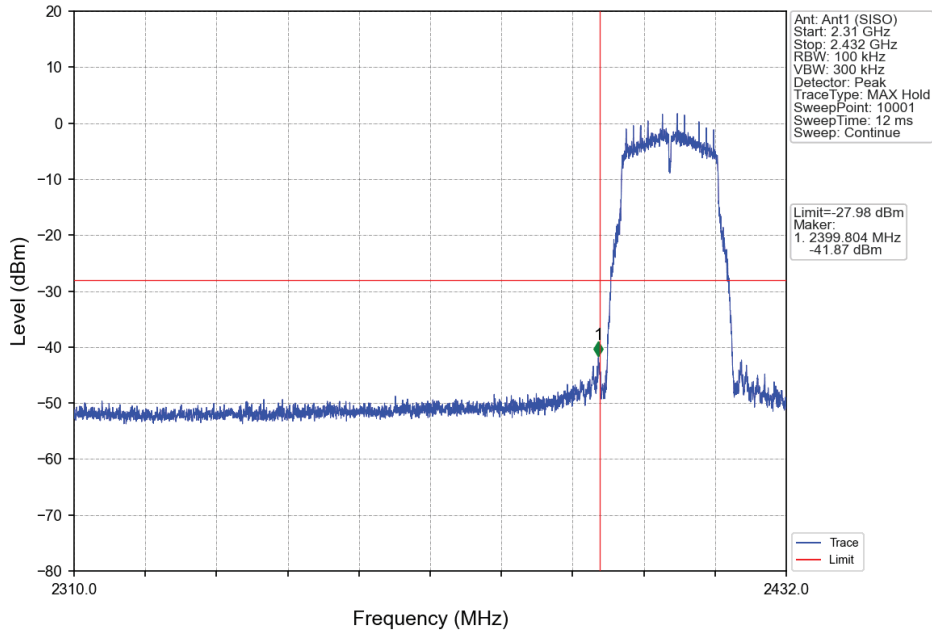
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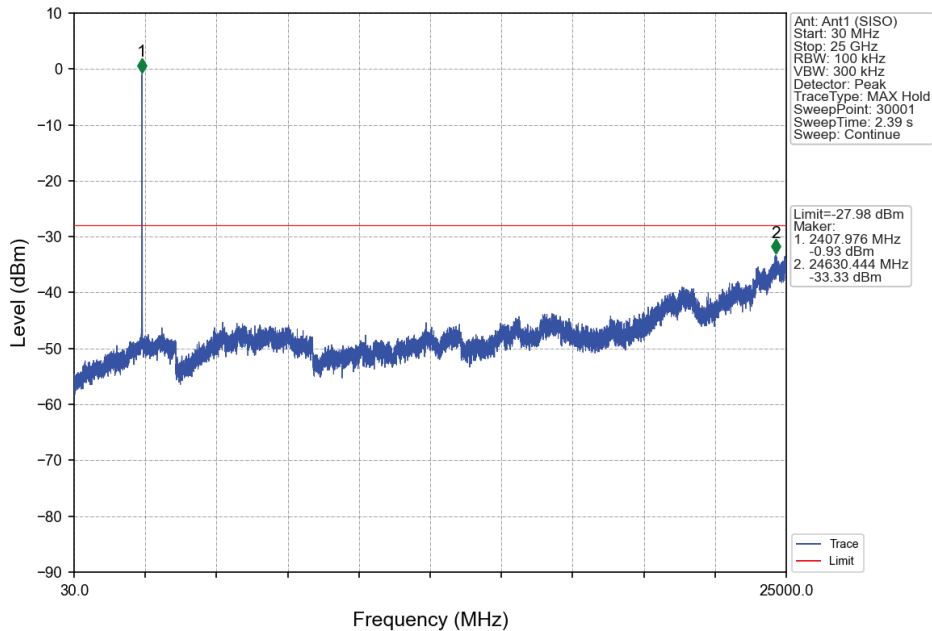
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



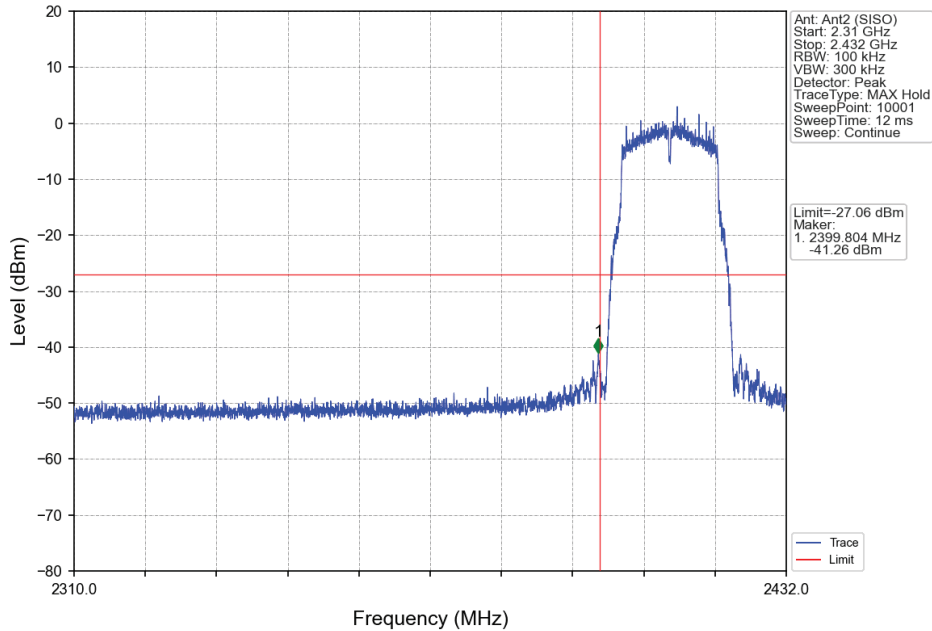
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



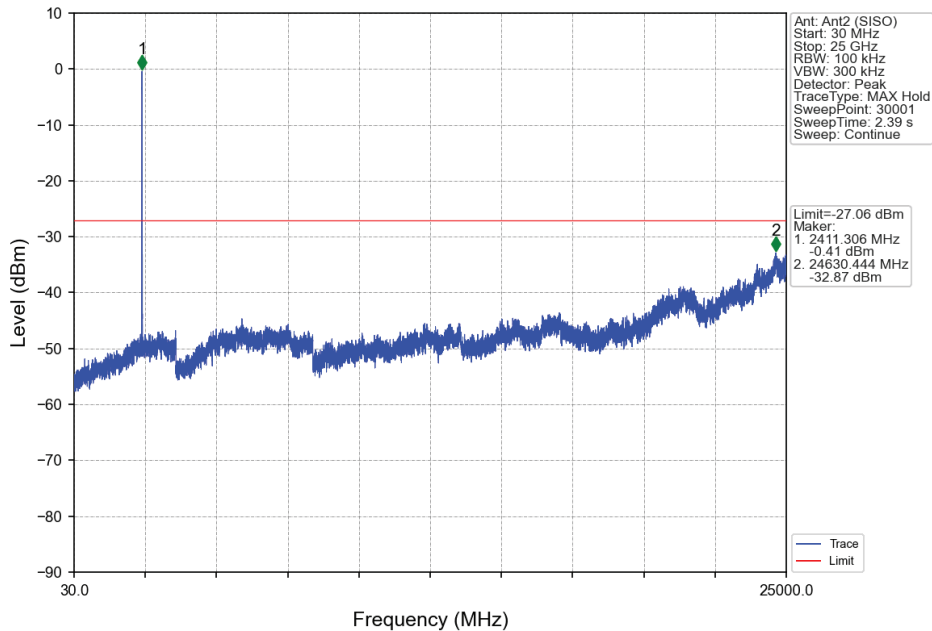
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### 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



### 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

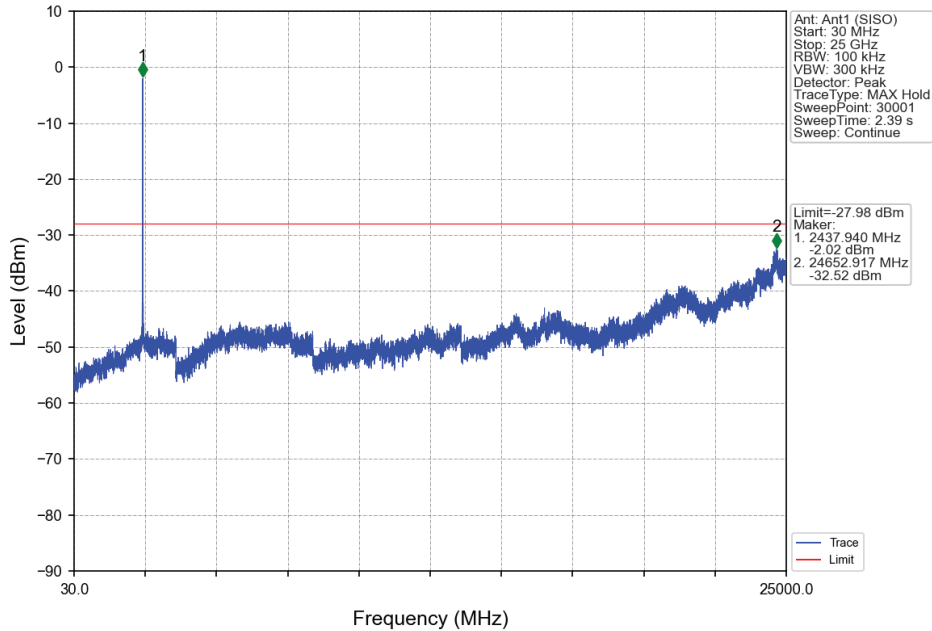


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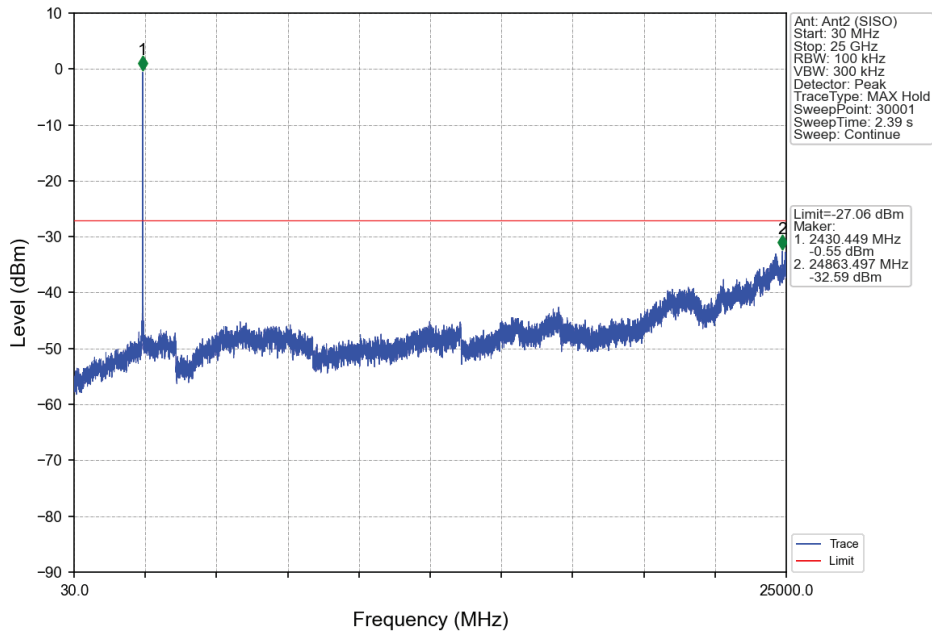
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



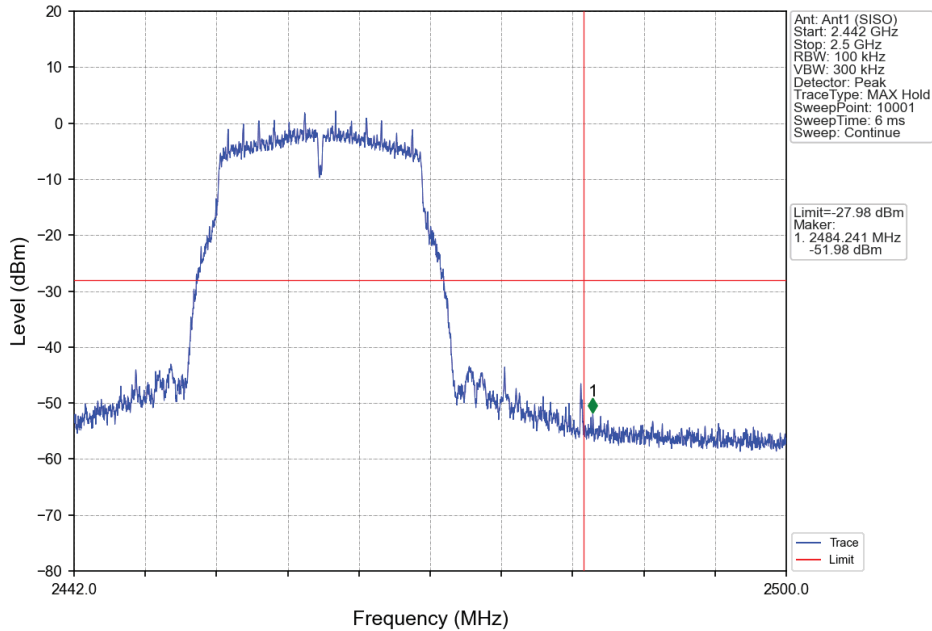
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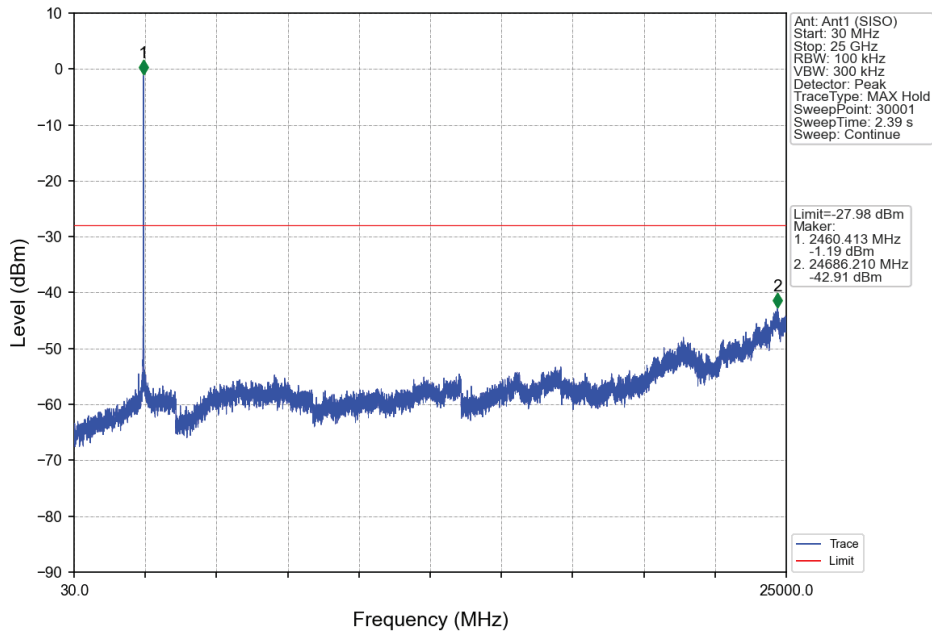
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



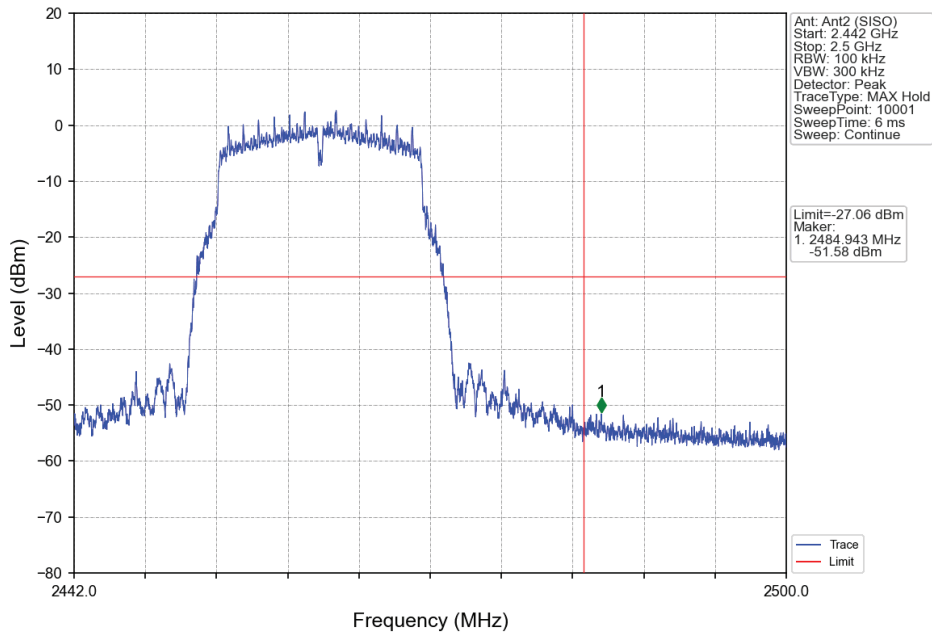
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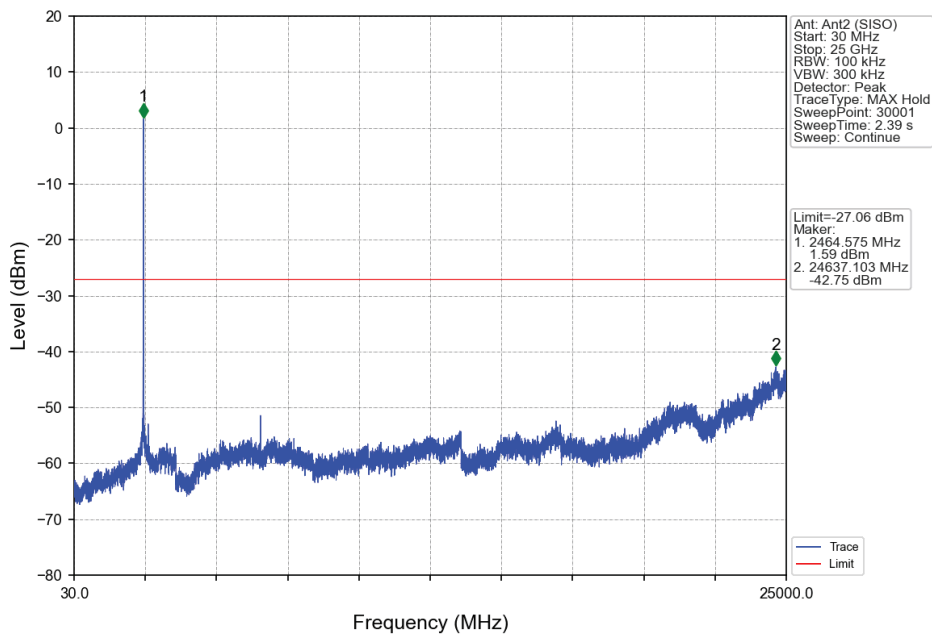
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### 802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



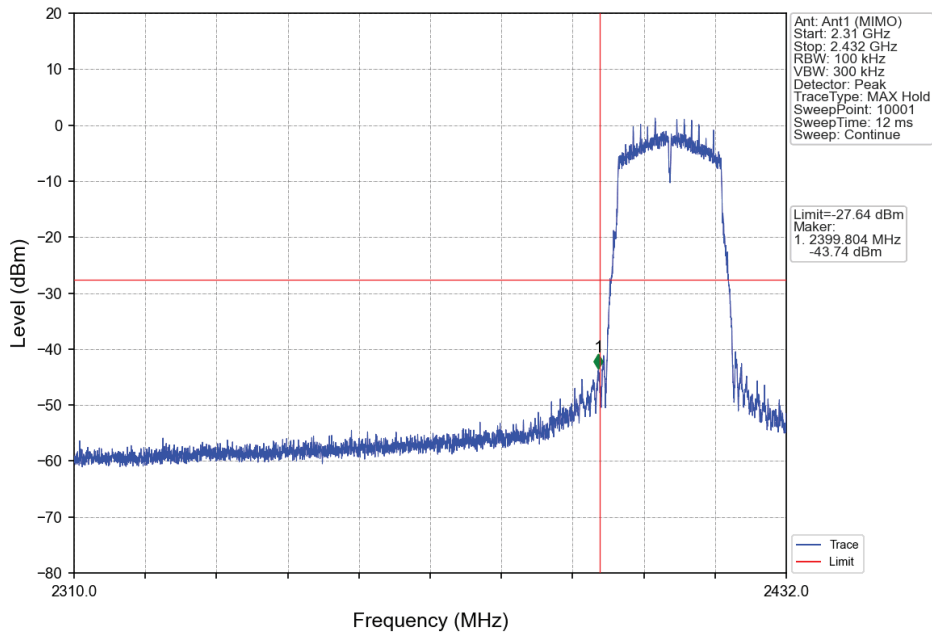
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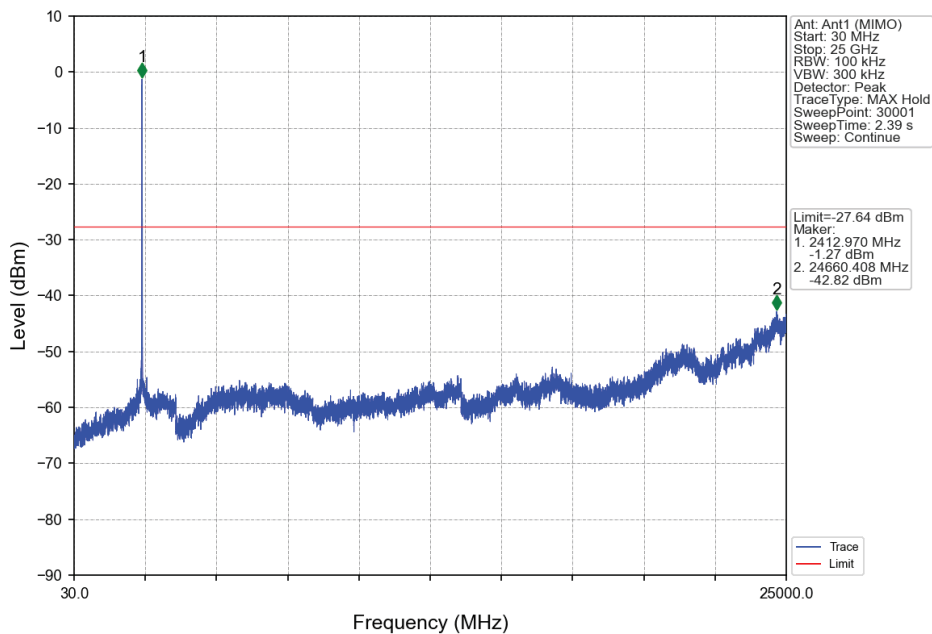
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



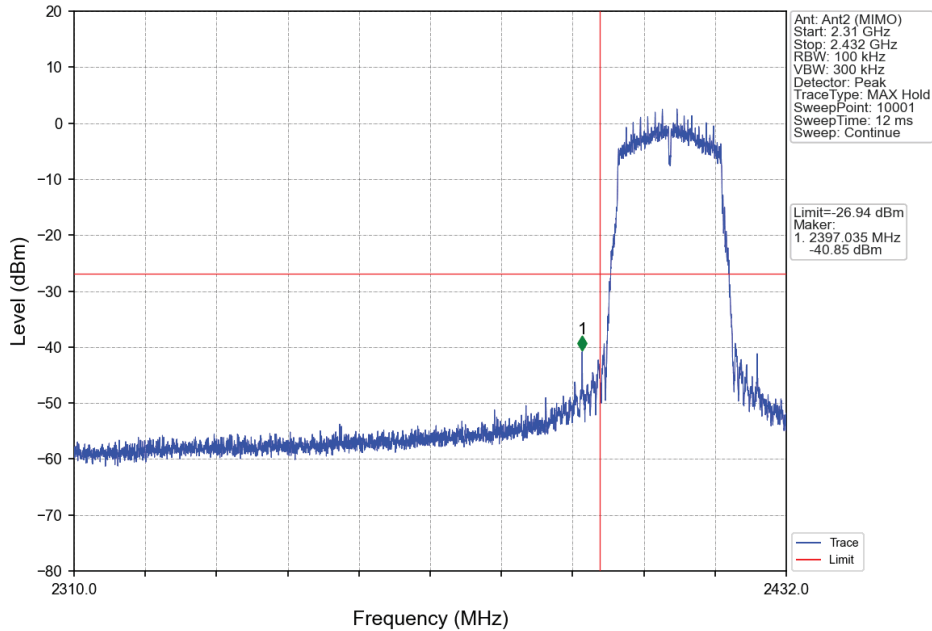
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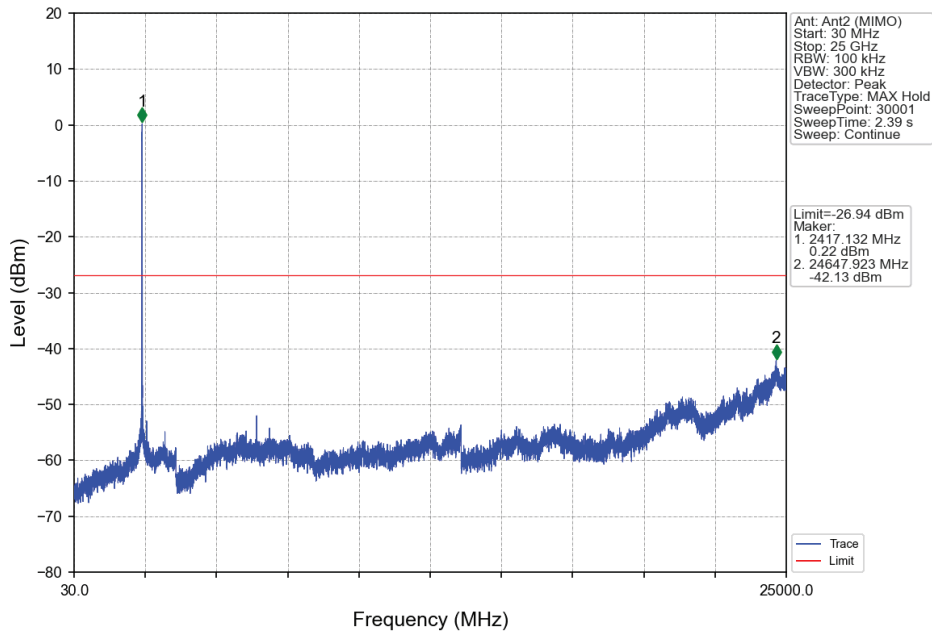
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

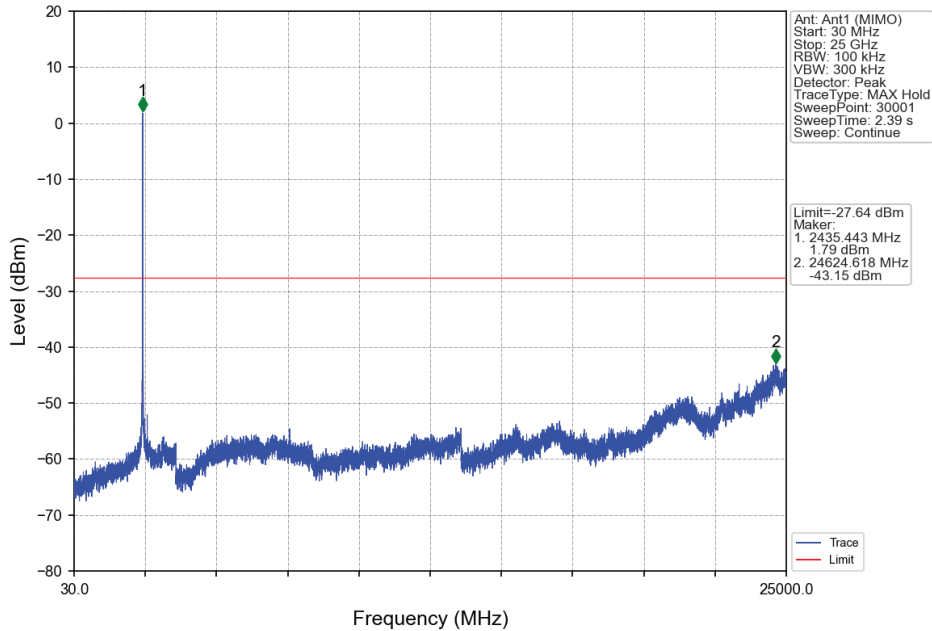


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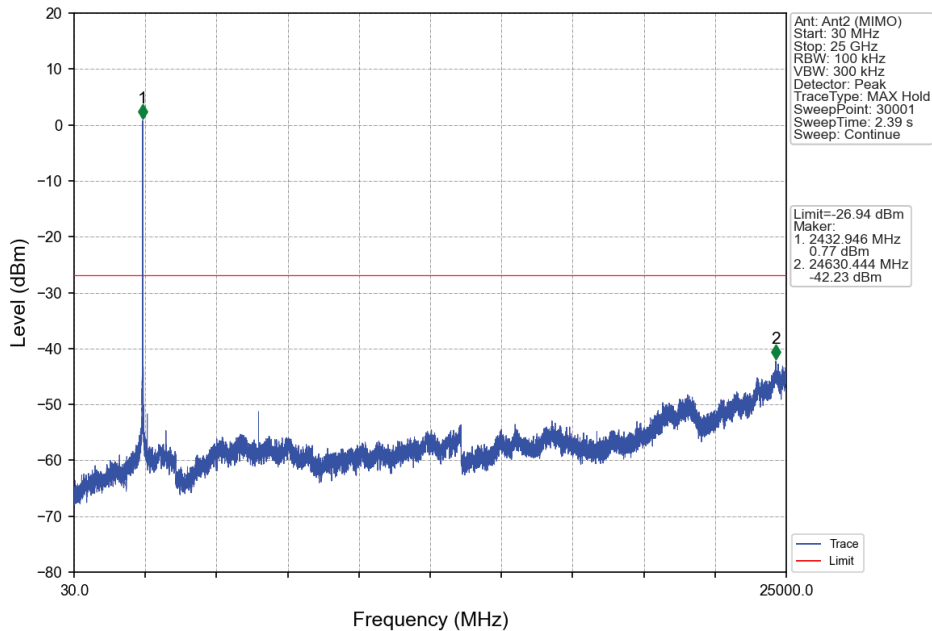
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



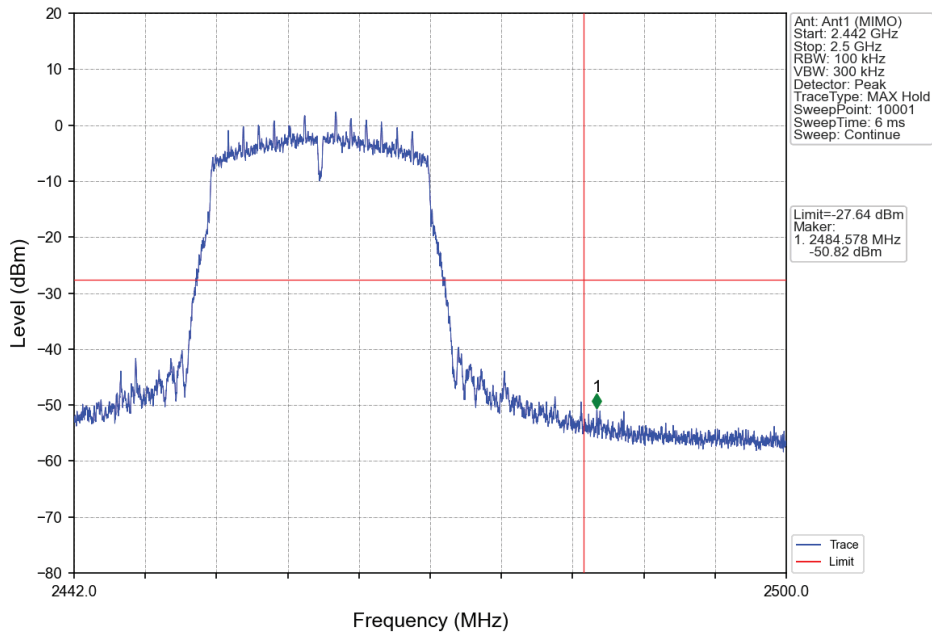
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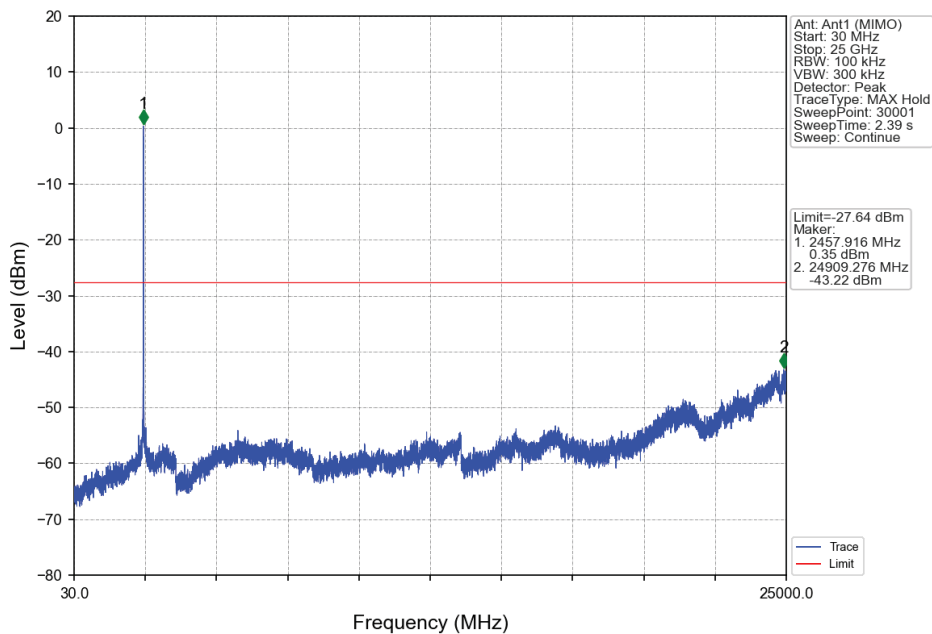
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



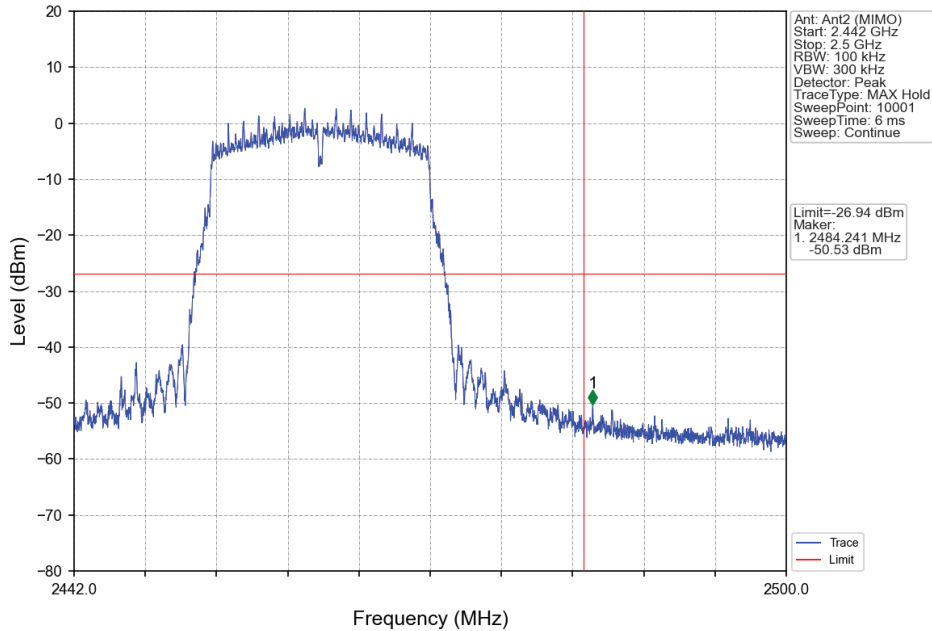
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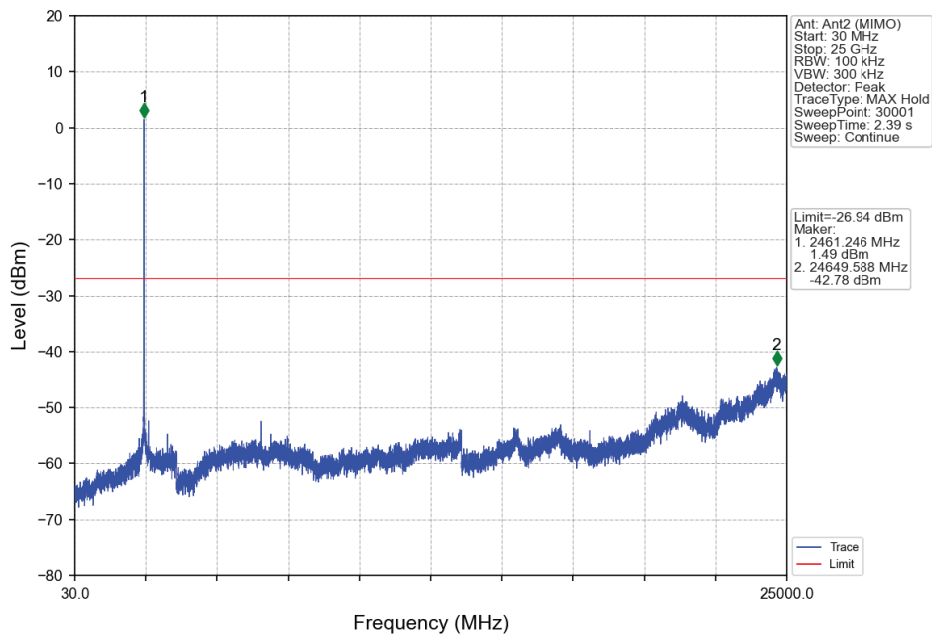
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



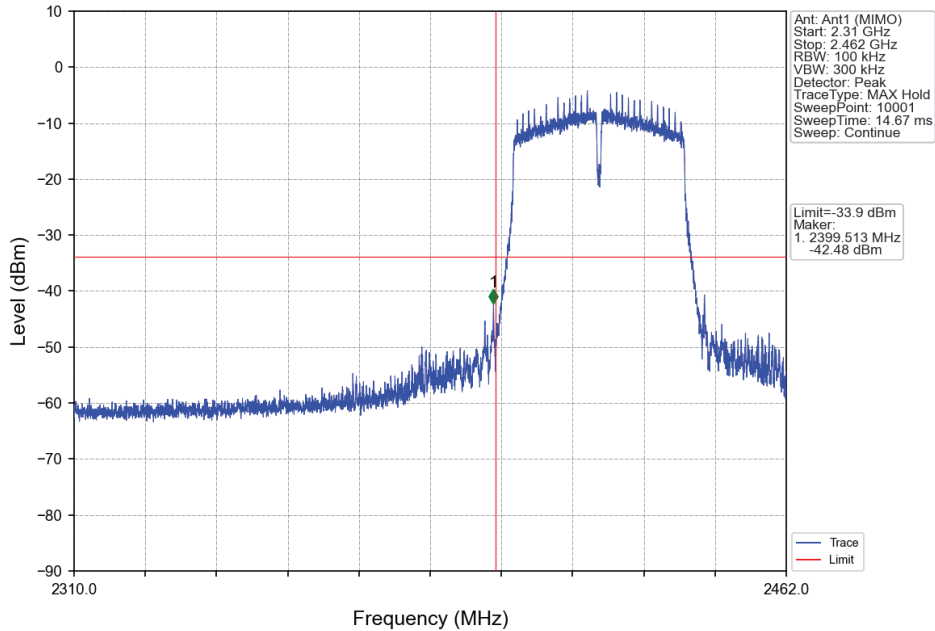
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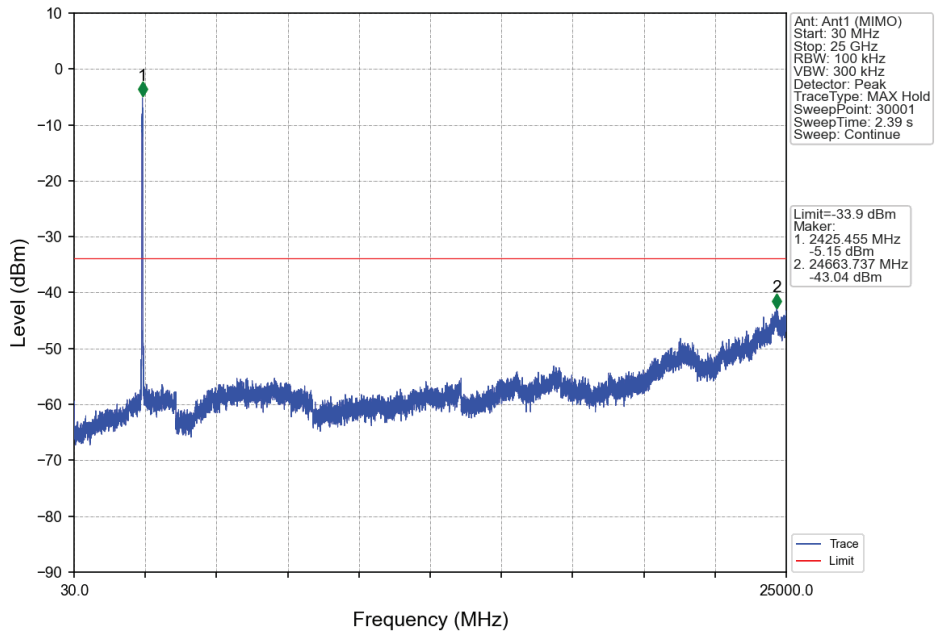
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



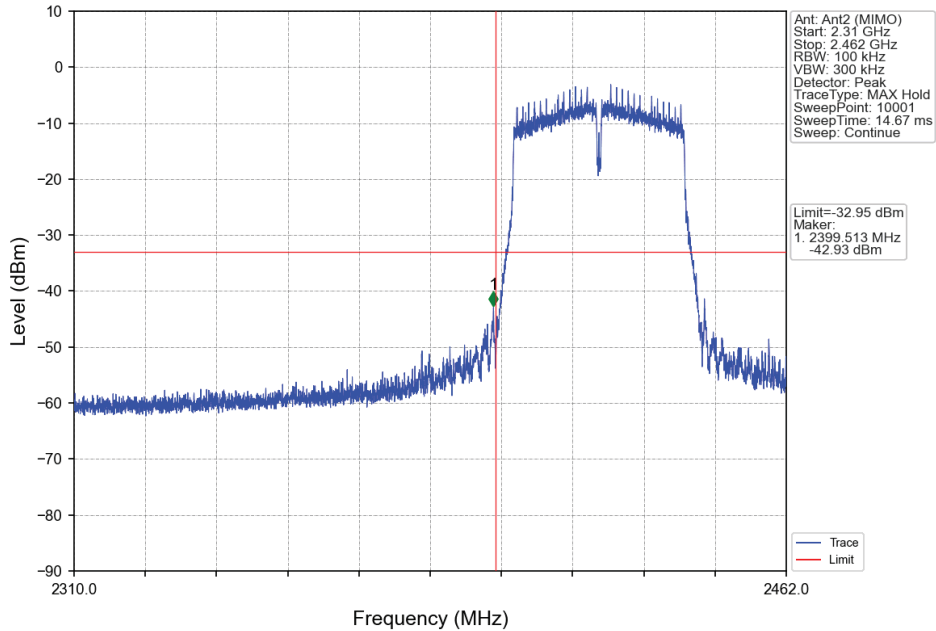
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



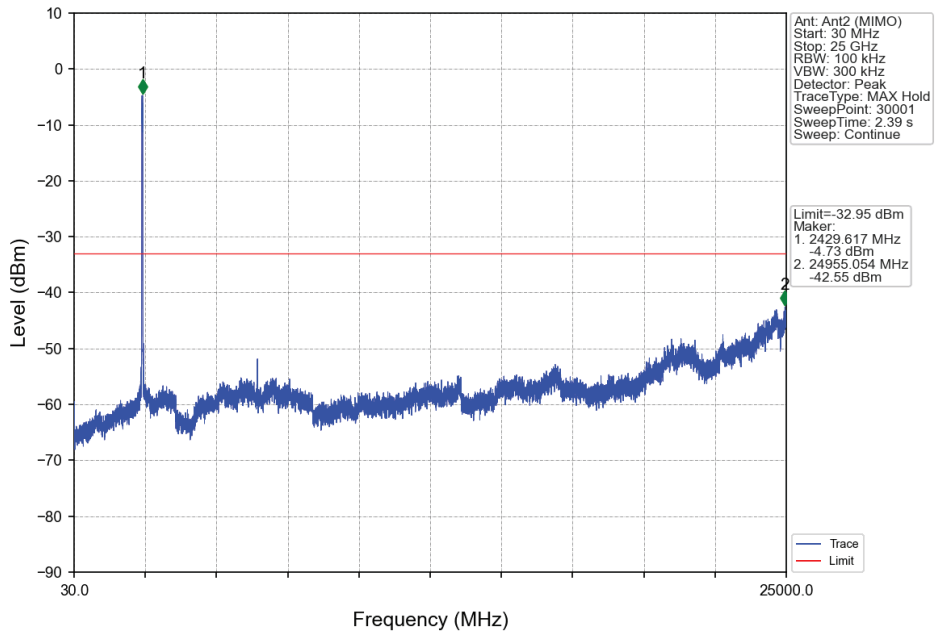
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

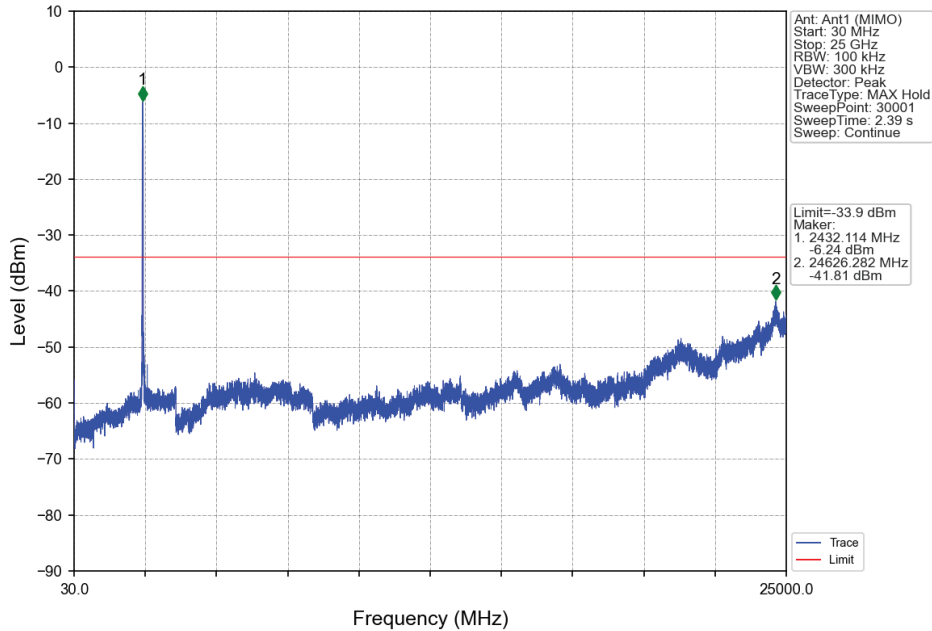


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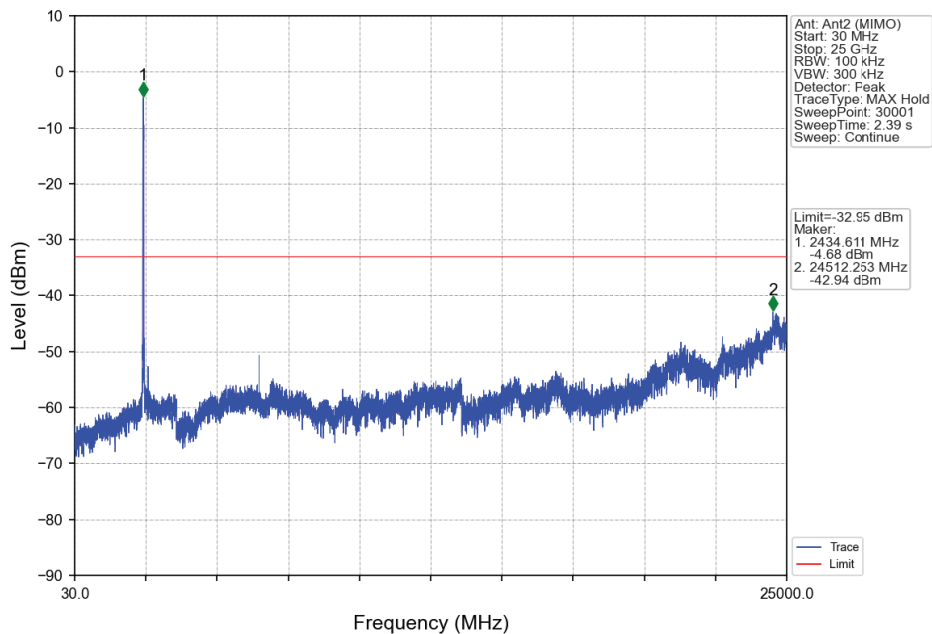
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



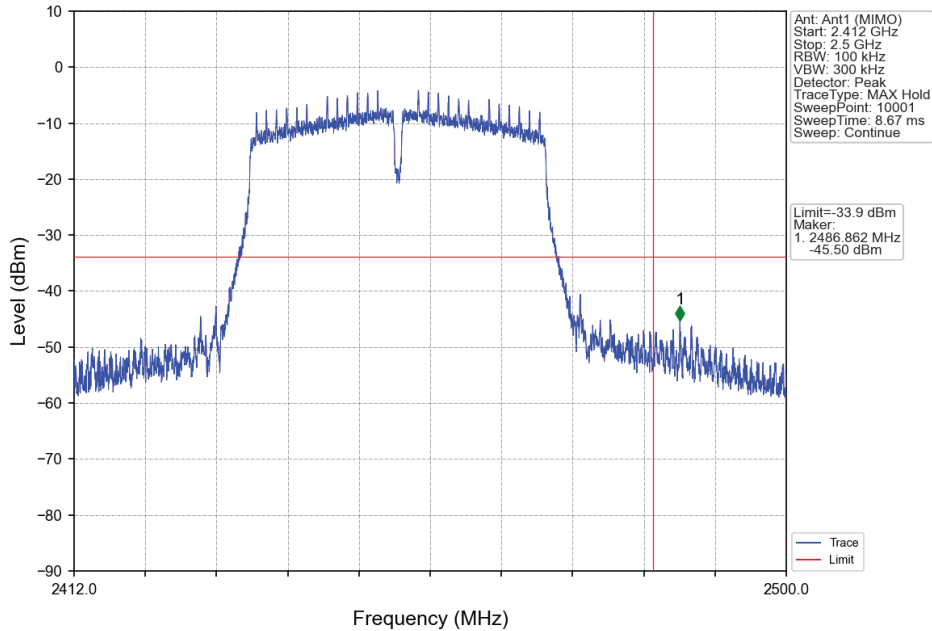
### 802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



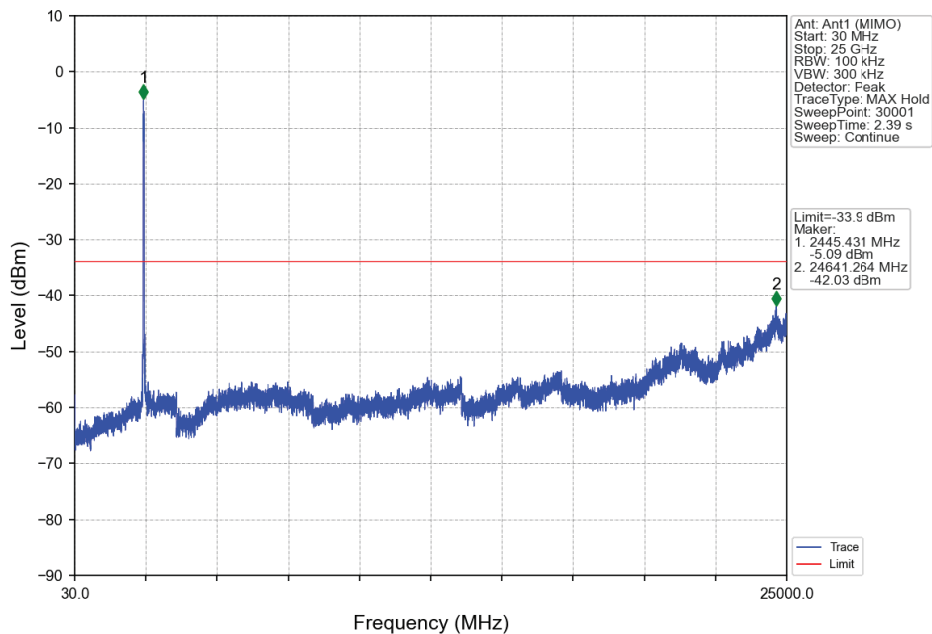
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



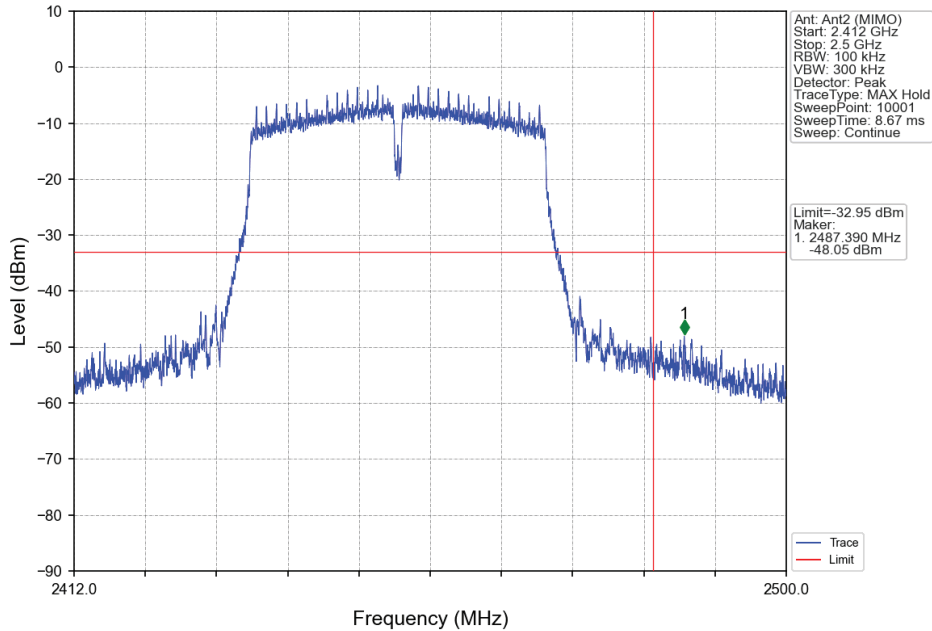
### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



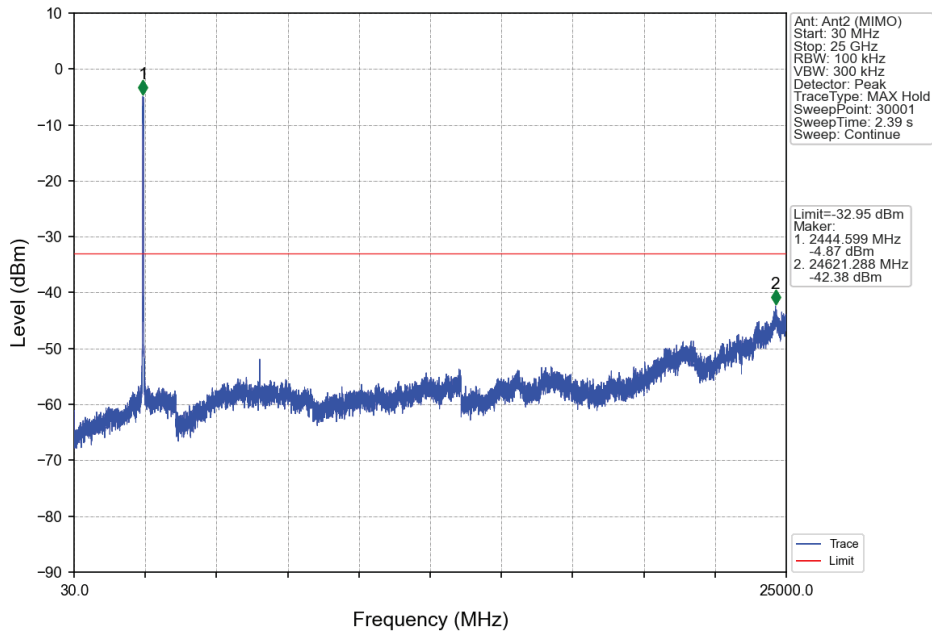
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



- End of the Report -



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