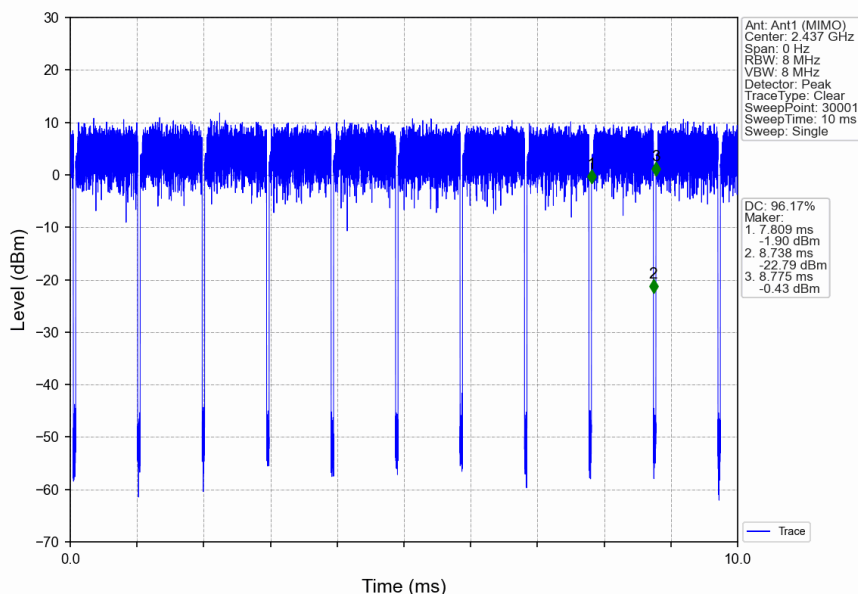
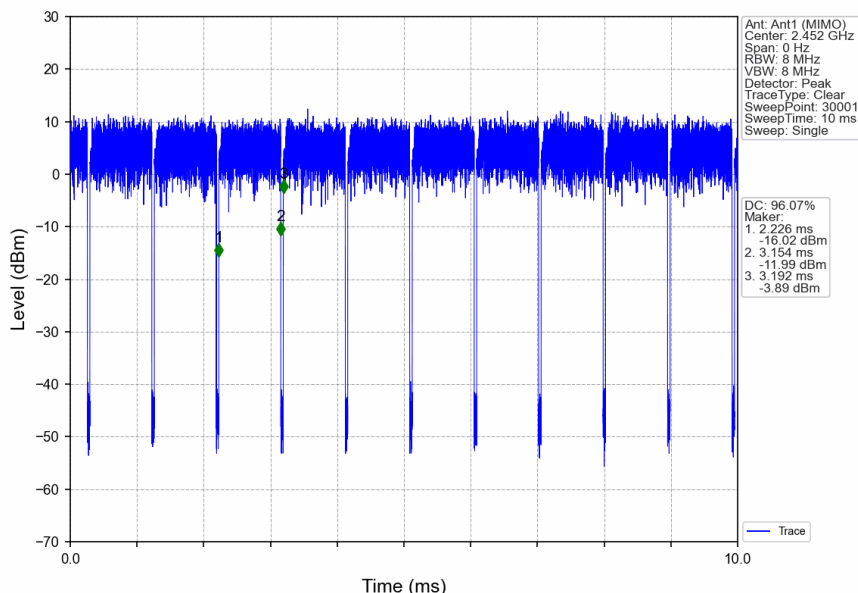


### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



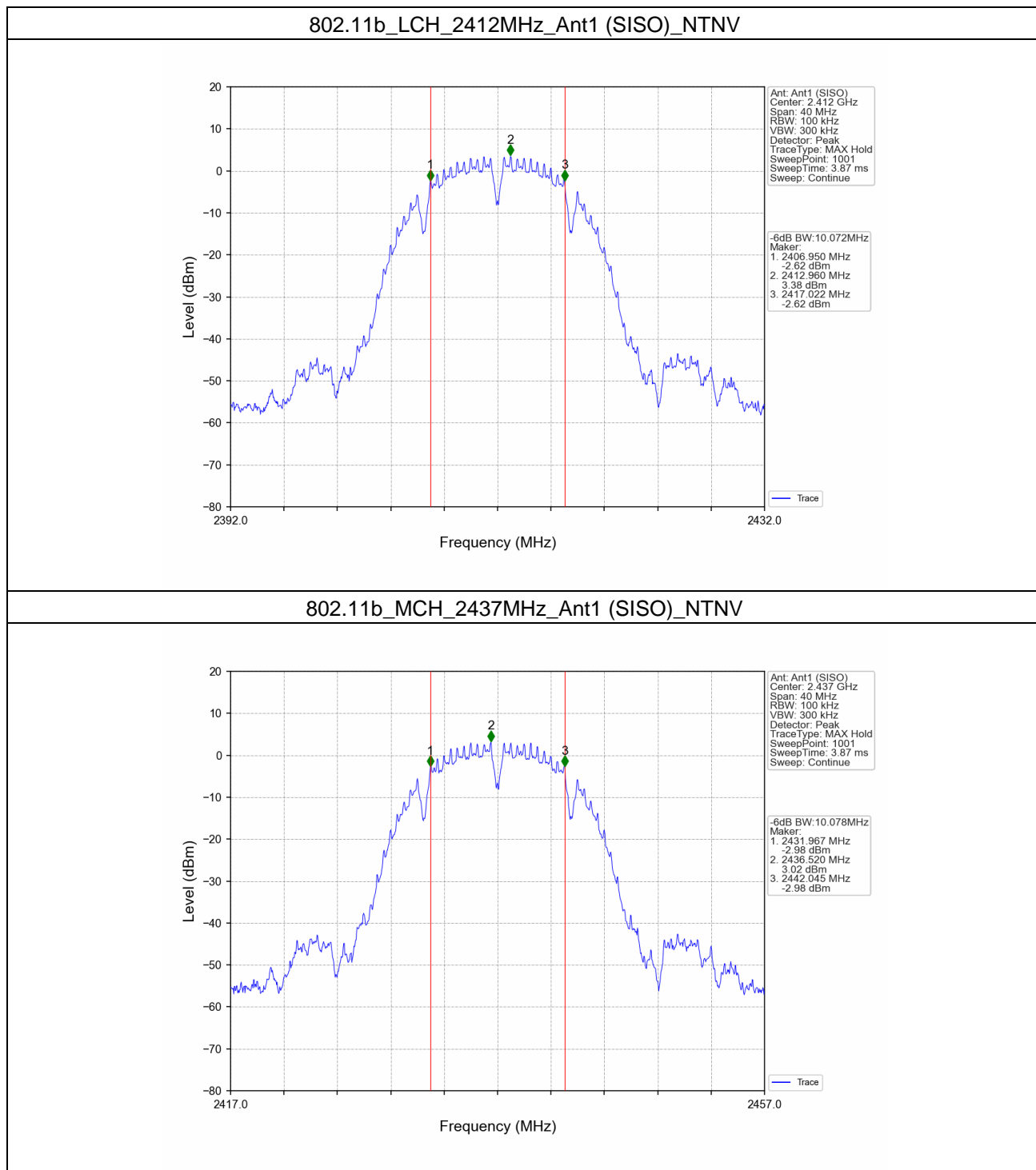
## 2. Bandwidth

### 2.1 6dB BW

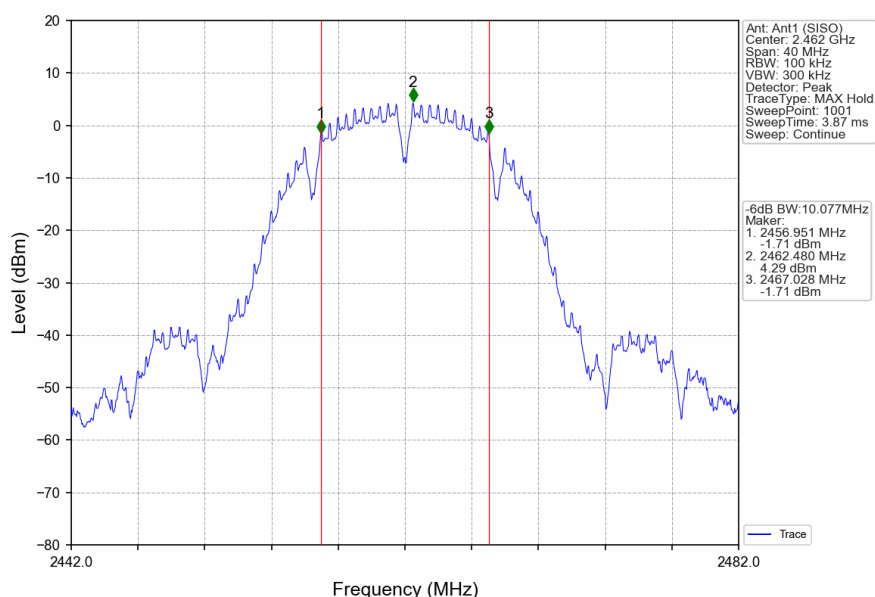
#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.072	$\geq 0.5$	Pass
		2437	1	10.078	$\geq 0.5$	Pass
		2462	1	10.077	$\geq 0.5$	Pass
802.11g	SISO	2412	1	15.149	$\geq 0.5$	Pass
		2437	1	15.142	$\geq 0.5$	Pass
		2462	1	15.136	$\geq 0.5$	Pass
802.11n (HT20)	MIMO	2412	1	15.149	$\geq 0.5$	Pass
		2437	1	15.148	$\geq 0.5$	Pass
		2462	1	15.141	$\geq 0.5$	Pass
802.11n (HT40)	MIMO	2422	1	33.856	$\geq 0.5$	Pass
		2437	1	33.864	$\geq 0.5$	Pass
		2452	1	33.869	$\geq 0.5$	Pass

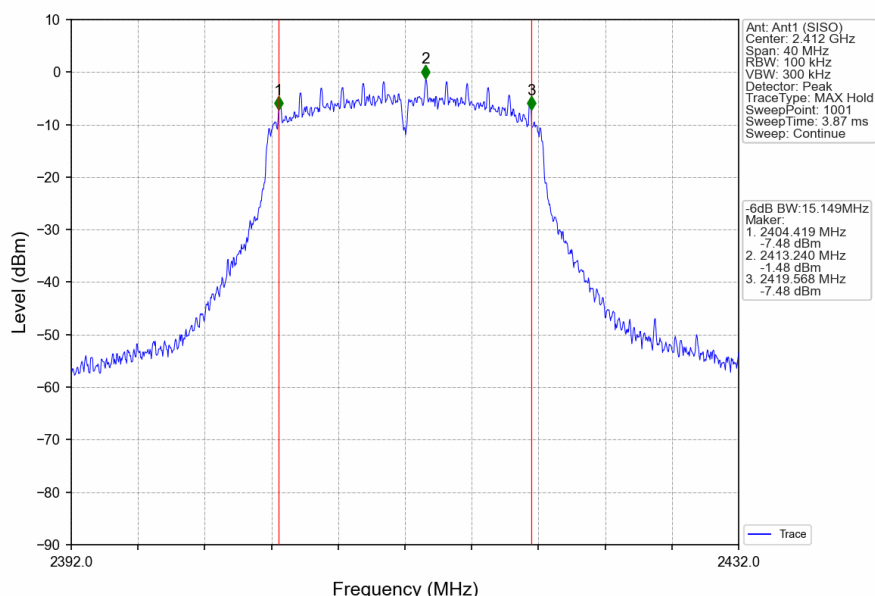
### 2.2.2 Test Graph



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



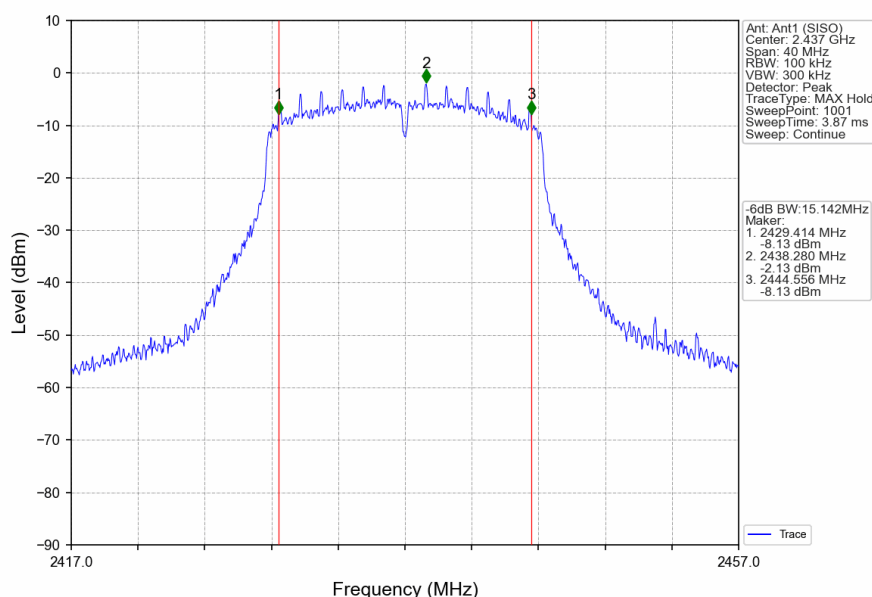
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



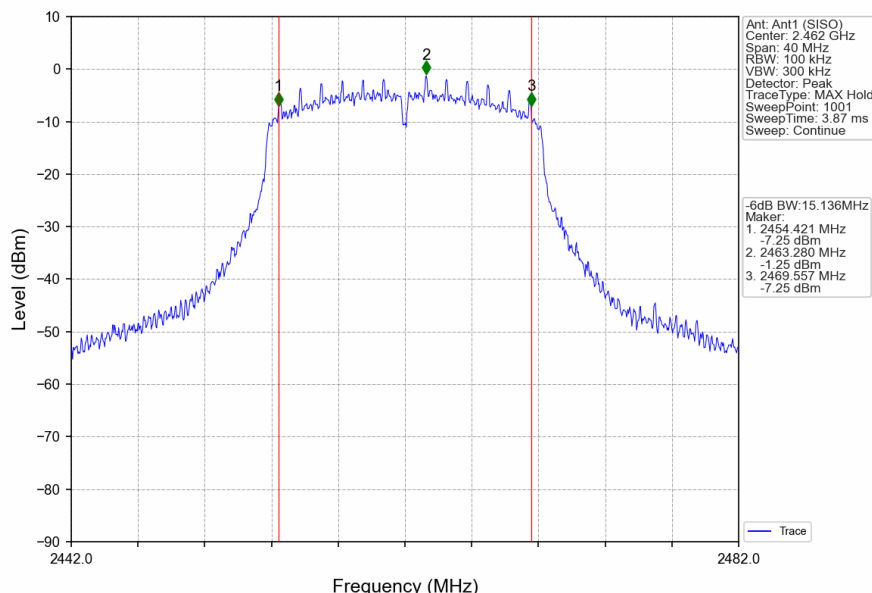
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

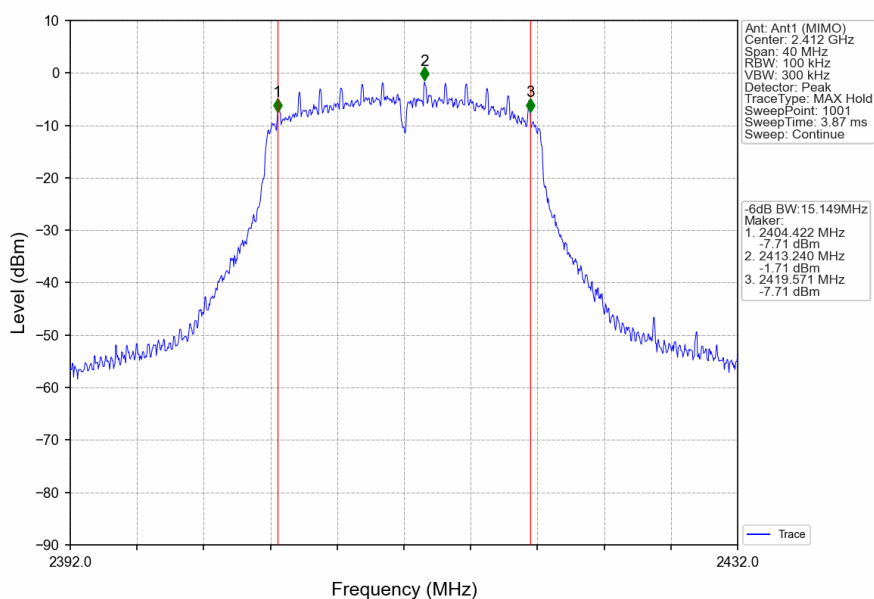


### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

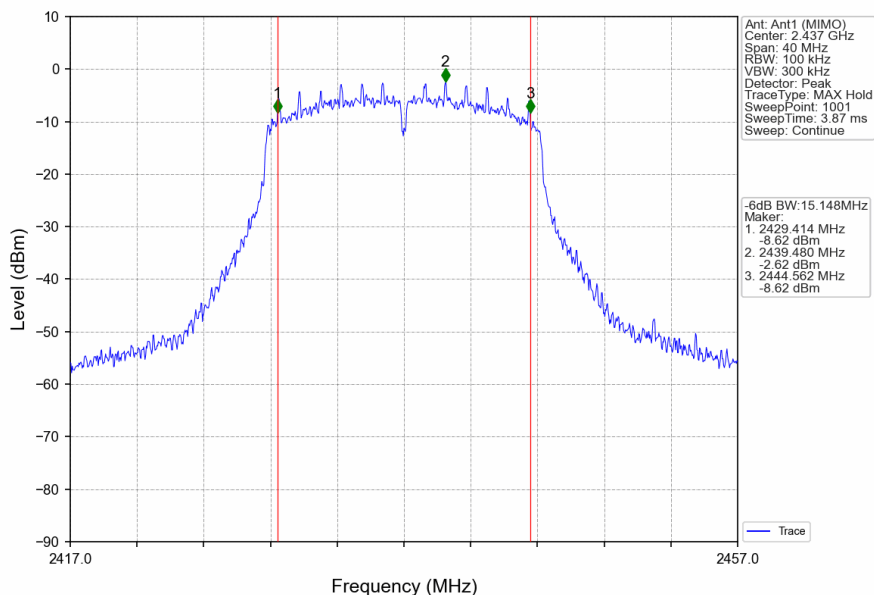




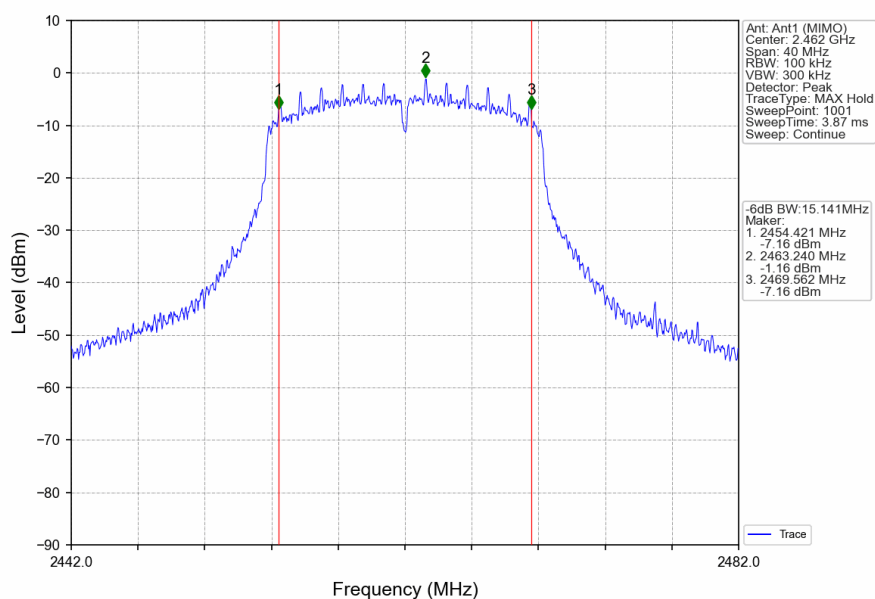
### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



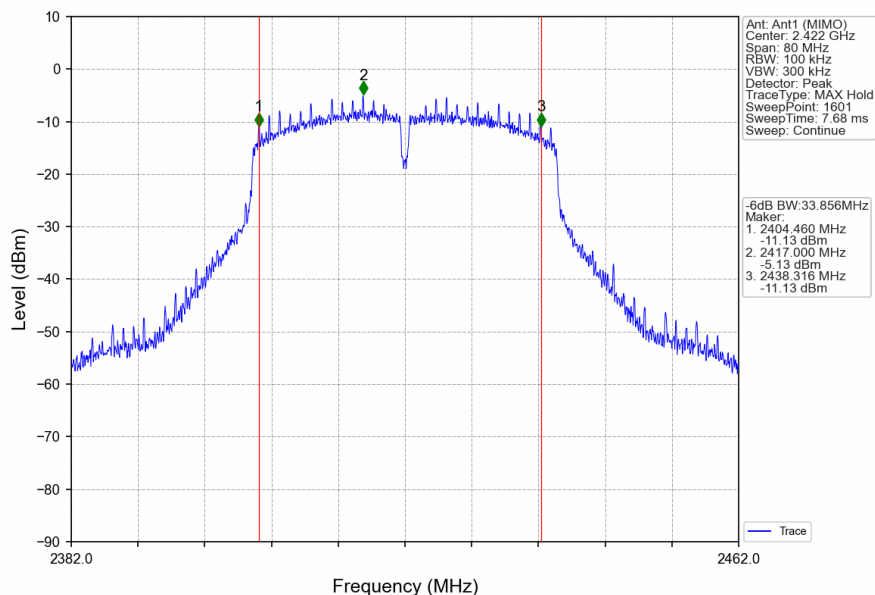
### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



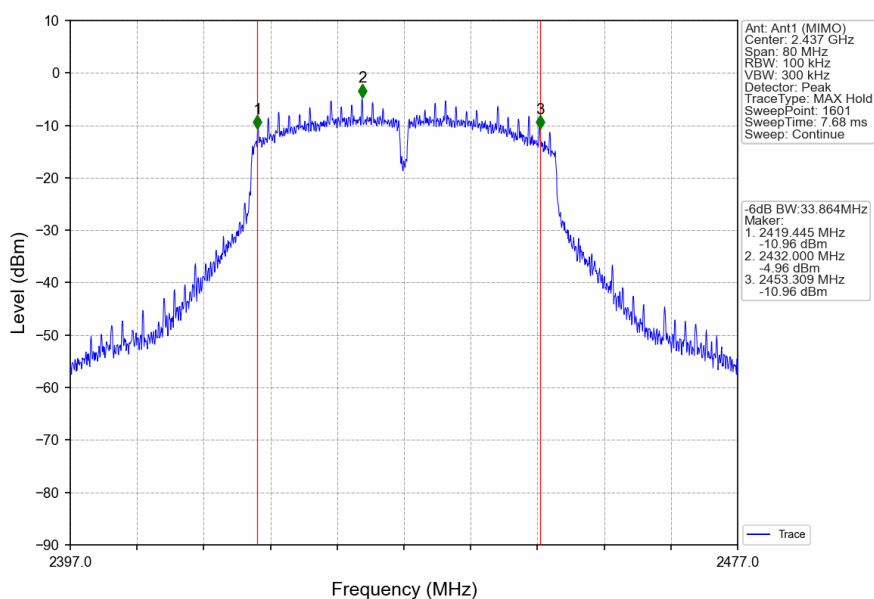
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



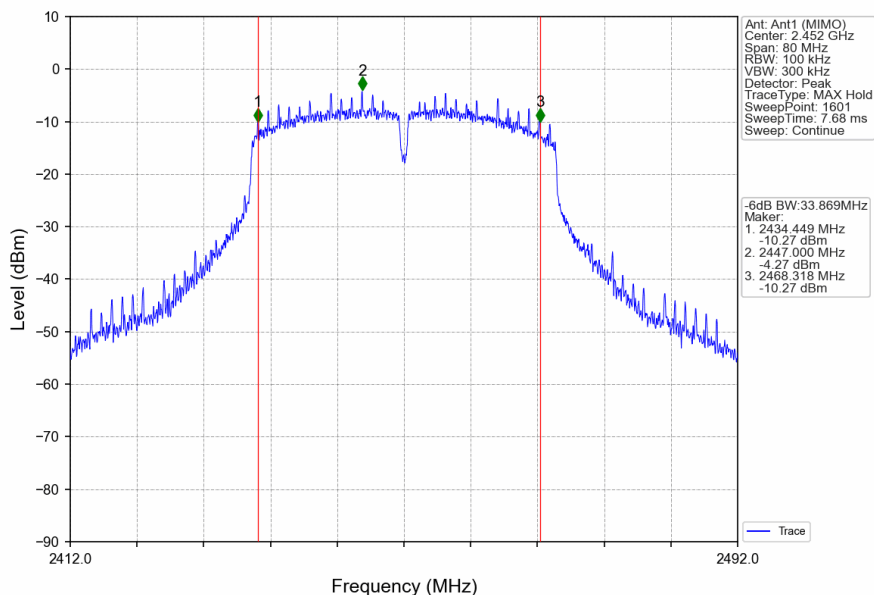
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	15.13	15.29	/	<=30	Pass
		2437	15.02	15.94	/	<=30	Pass
		2462	15.87	17.00	/	<=30	Pass
802.11g	SISO	2412	16.06	15.65	/	<=30	Pass
		2437	15.49	16.49	/	<=30	Pass
		2462	16.23	17.72	/	<=30	Pass
802.11n (HT20)	MIMO	2412	16.06	15.71	18.90	<=29	Pass
		2437	15.48	16.47	19.01	<=29	Pass
		2462	16.20	17.71	20.03	<=29	Pass
802.11n (HT40)	MIMO	2422	15.79	15.73	18.77	<=29	Pass
		2437	15.90	16.68	19.32	<=29	Pass
		2452	16.60	16.95	19.79	<=29	Pass

Note1: Antenna Gain: Ant1: 5.00dBi; Ant2: 5.00dBi;  
 Note2: Directional Gain: 8.01dBi  
 The directional gain is 8.01 dBi, which exceed 6dBi 2.01 dB, the total power limit will be reduced by 1 dB for MIMO.

## 4. Maximum Power Spectral Density

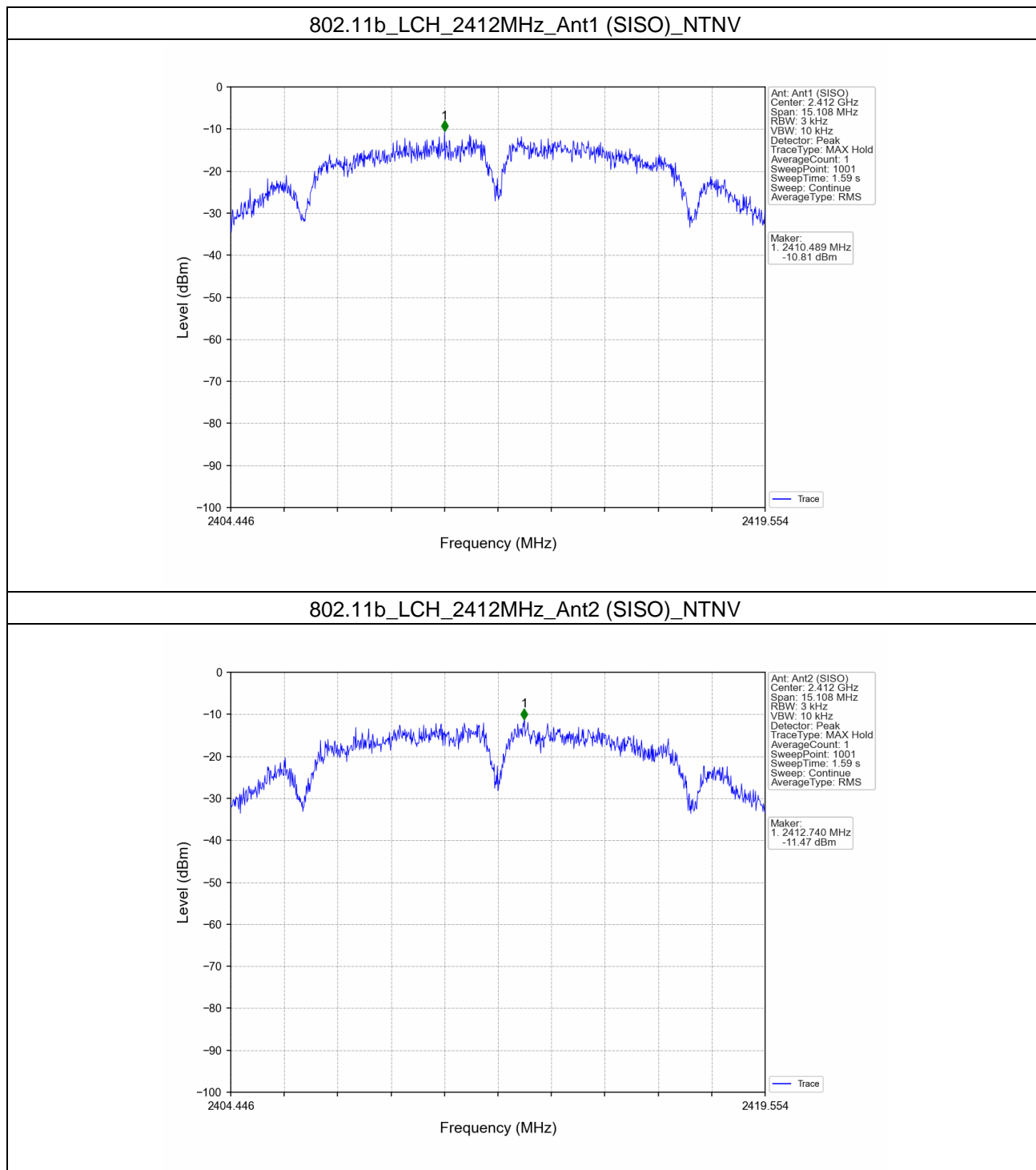
### 4.1 PSD

#### 4.1.1 Test Result

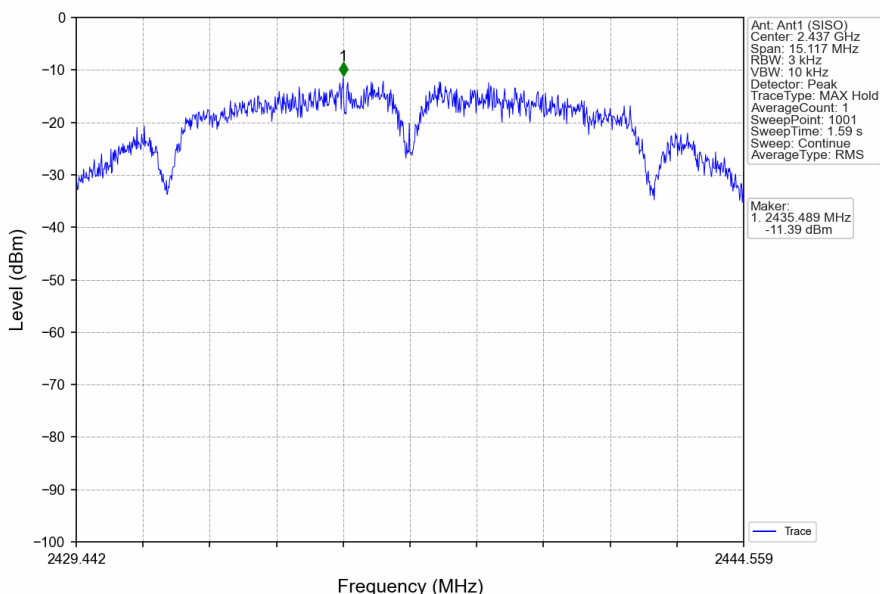
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	-10.81	-11.47	/	<=8	Pass
		2437	-11.39	-9.87	/	<=8	Pass
		2462	-10.54	-9.09	/	<=8	Pass
802.11g	SISO	2412	-15.84	-16.70	/	<=8	Pass
		2437	-17.43	-16.64	/	<=8	Pass
		2462	-15.85	-16.16	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-16.92	-16.86	-15.07	<=7	Pass
		2437	-17.01	-16.59	-14.51	<=7	Pass
		2462	-16.91	-15.17	-13.86	<=7	Pass
802.11n (HT40)	MIMO	2422	-17.56	-20.05	-16.57	<=7	Pass
		2437	-17.21	-19.42	-16.01	<=7	Pass
		2452	-19.60	-18.65	-16.39	<=7	Pass

Note1: Antenna Gain: Ant1: 5.00dBi; Ant2: 5.00dBi;  
 Note2: Directional Gain: 8.01dBi  
 The directional gain is 8.01 dBi, which exceed 6dBi 2.01 dB, the total power limit will be reduced by 1 dB for MIMO.

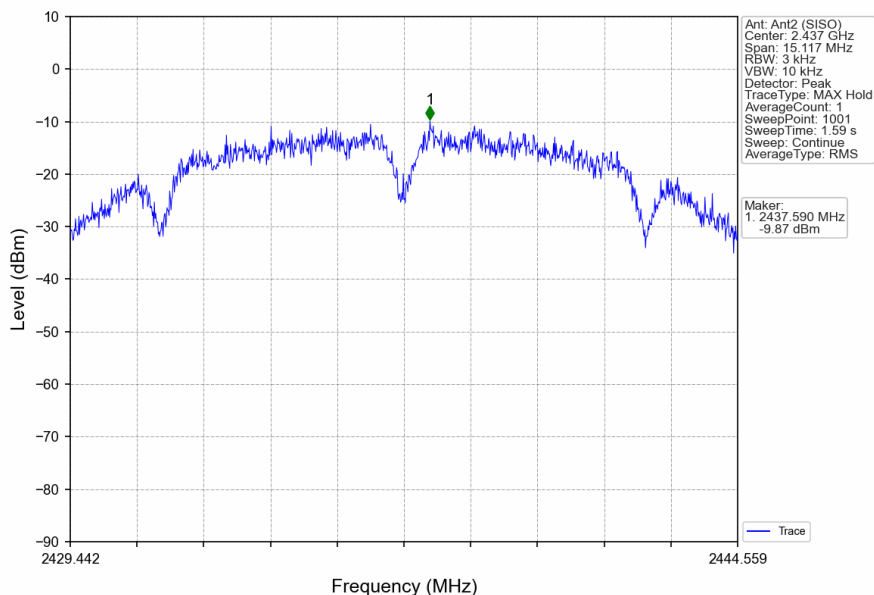
### 4.1.2 Test Graph



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



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

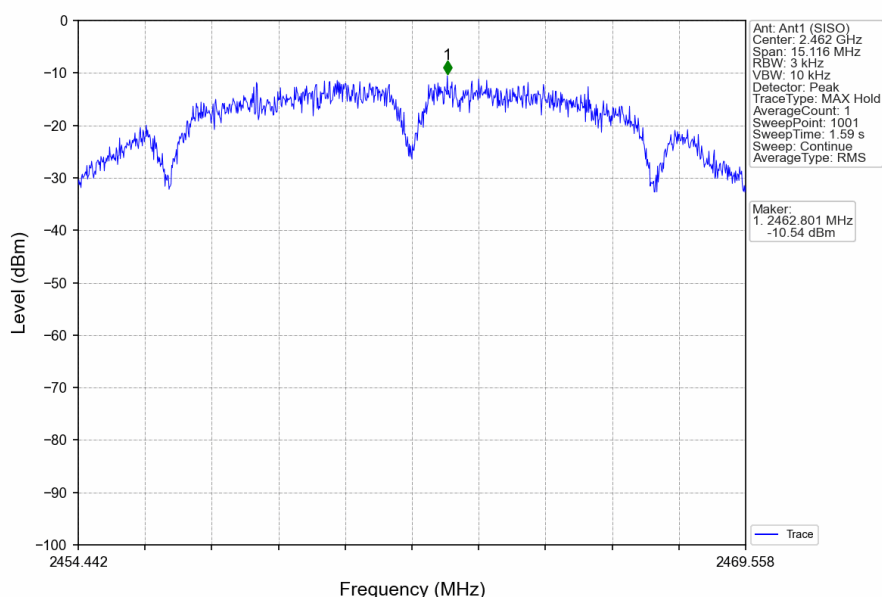


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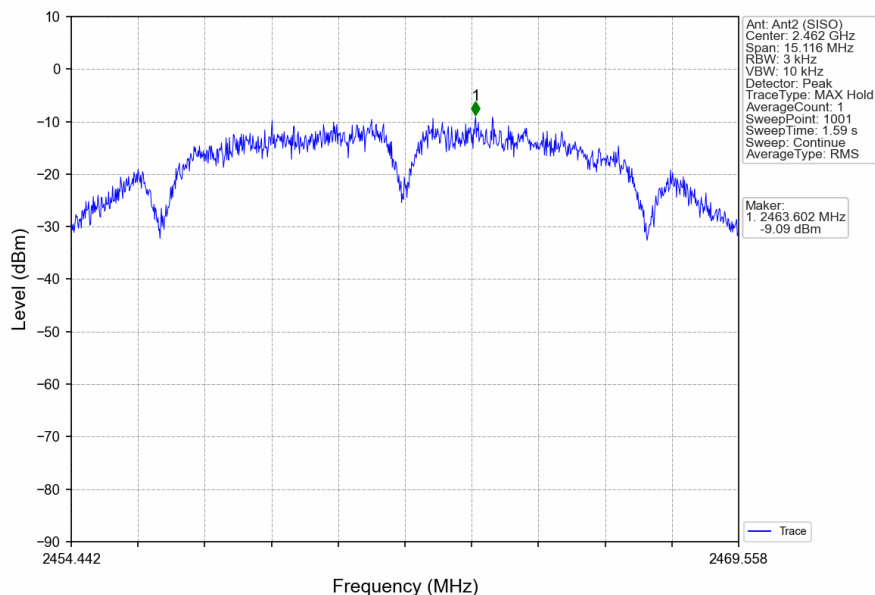
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



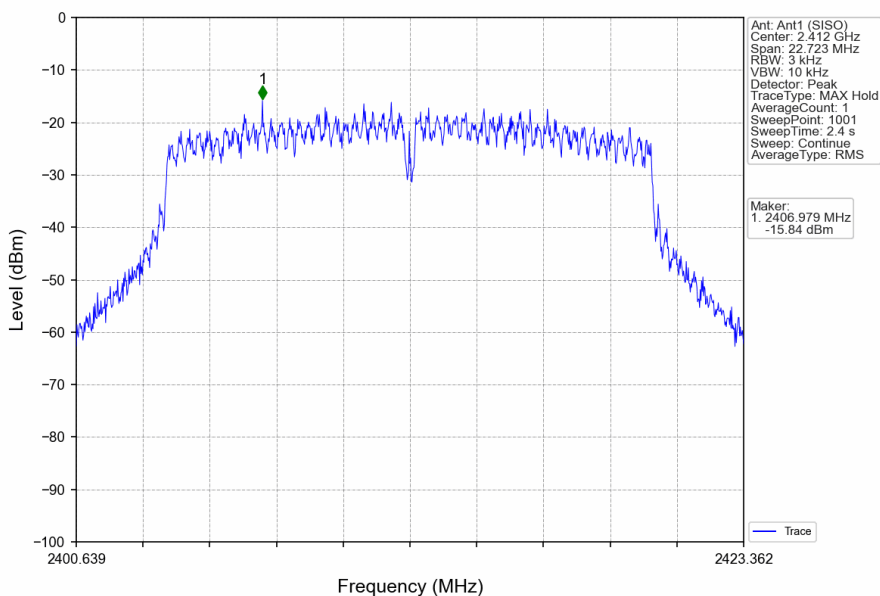
### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



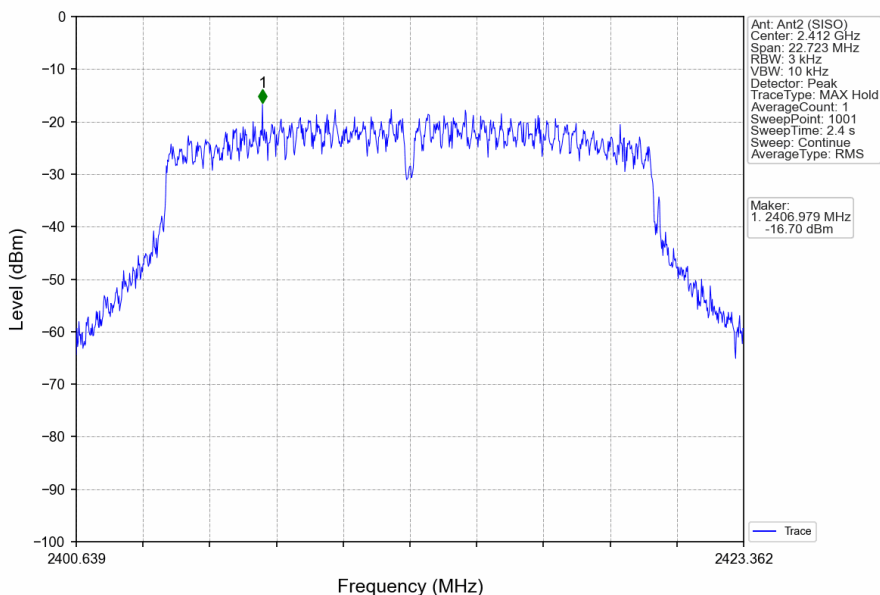
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



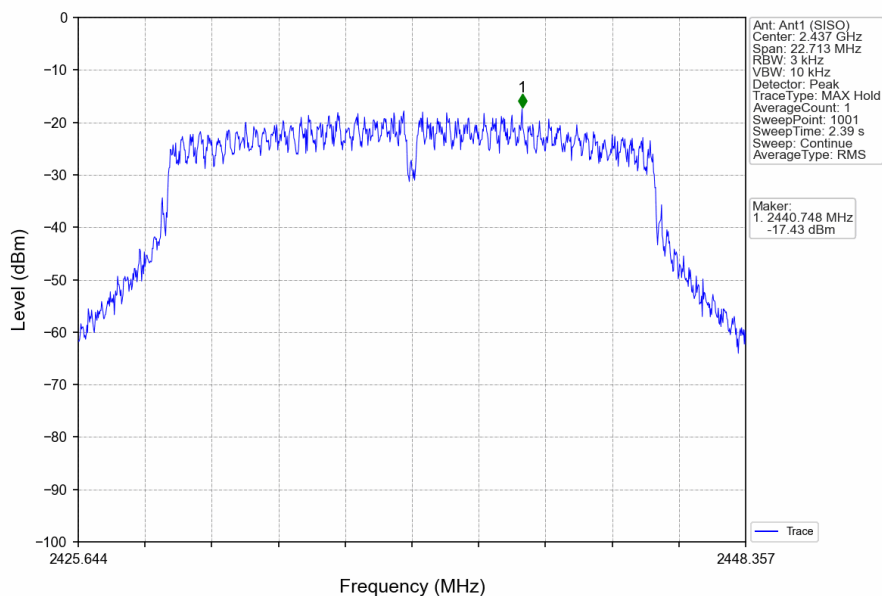
### 802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



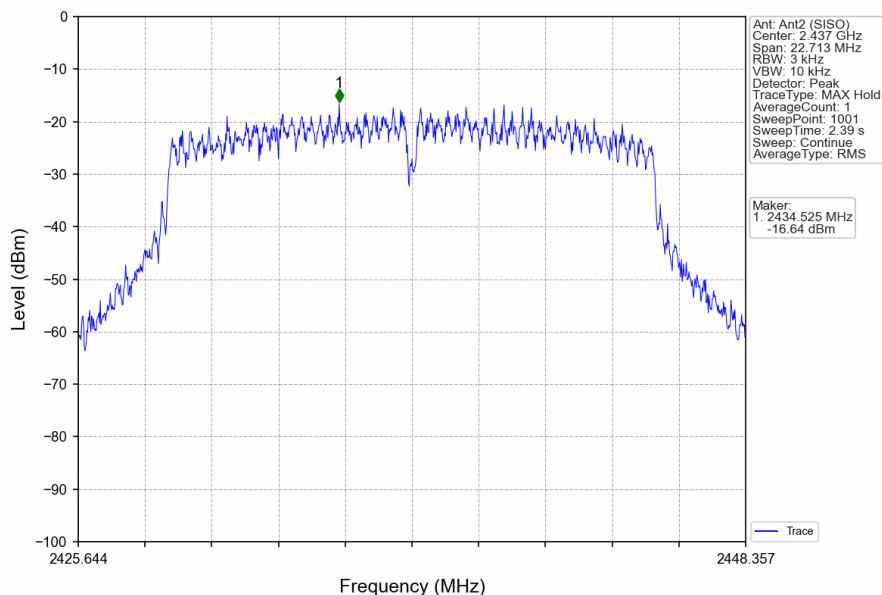
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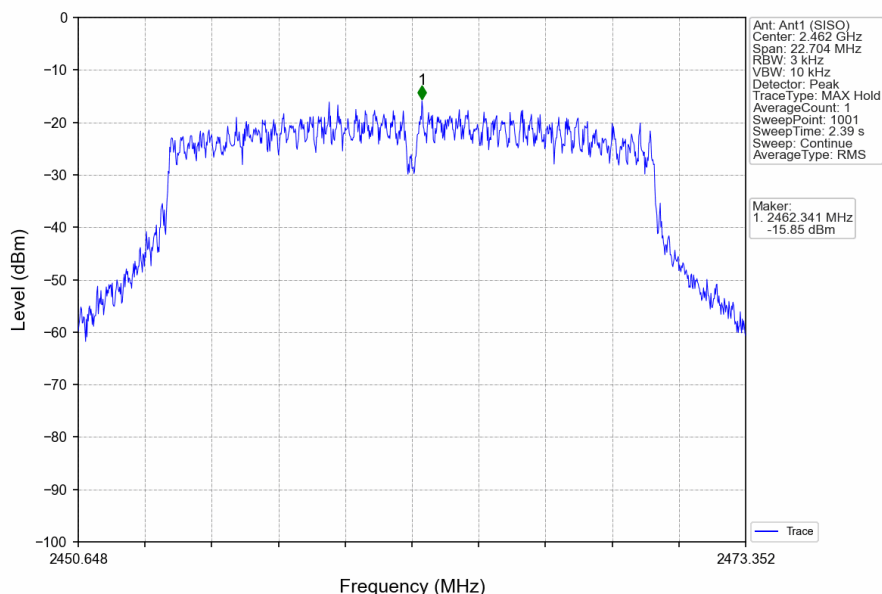
### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



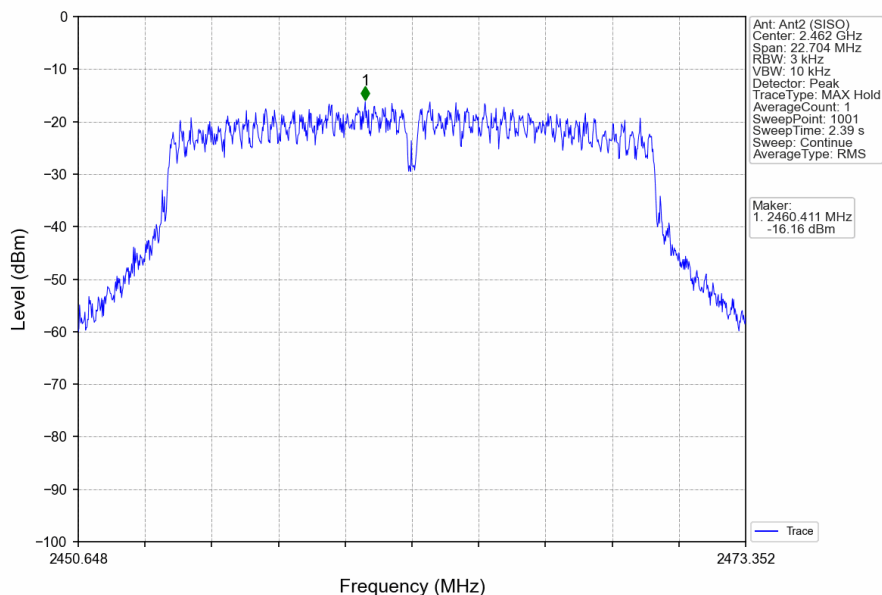
### 802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



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



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

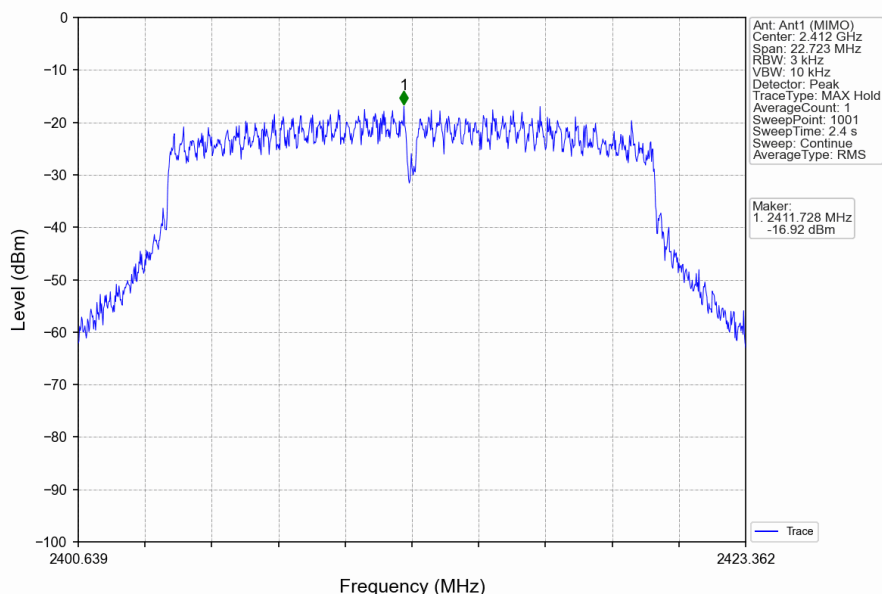


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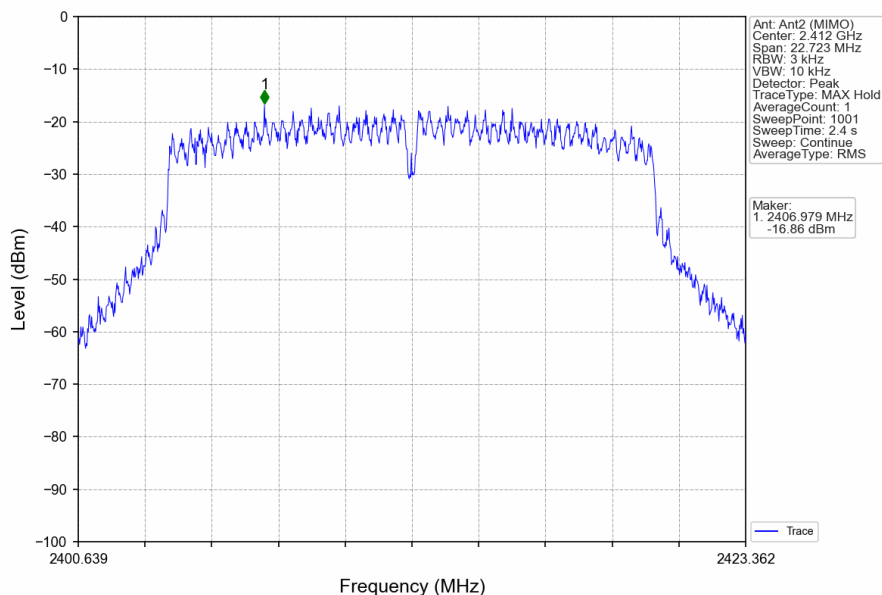
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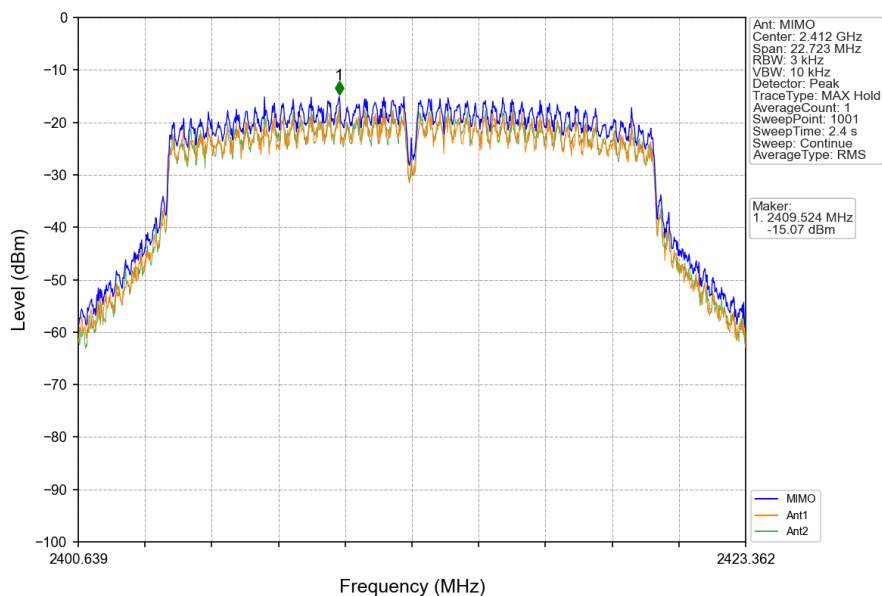
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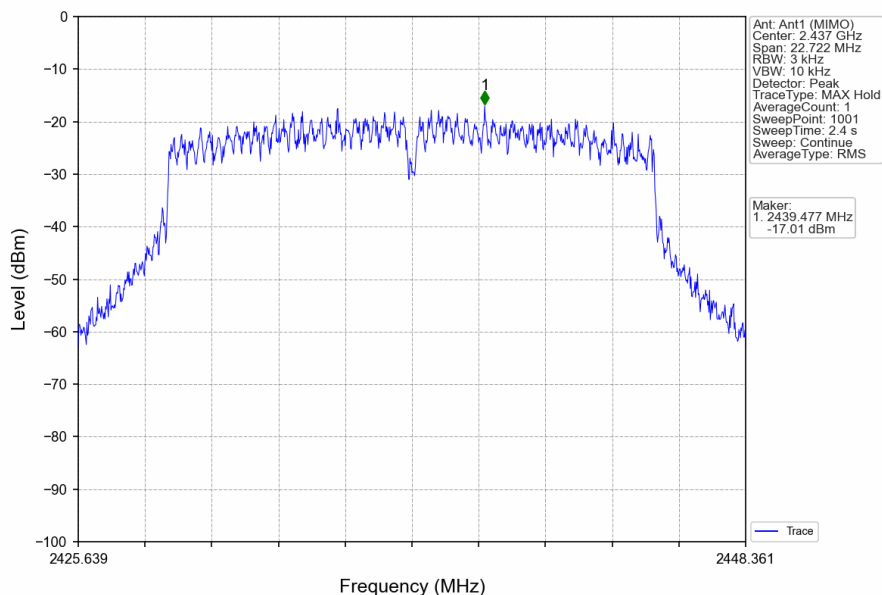
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### 802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



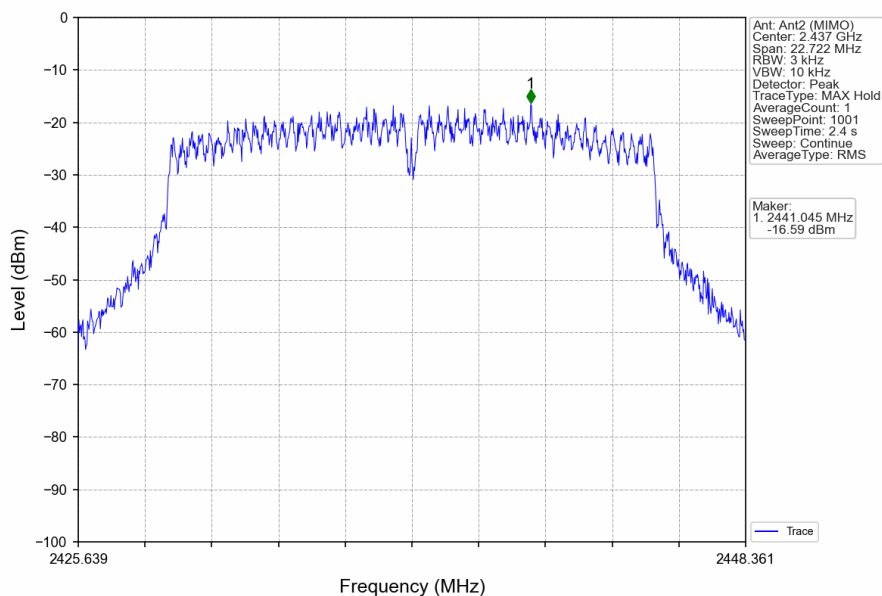
### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



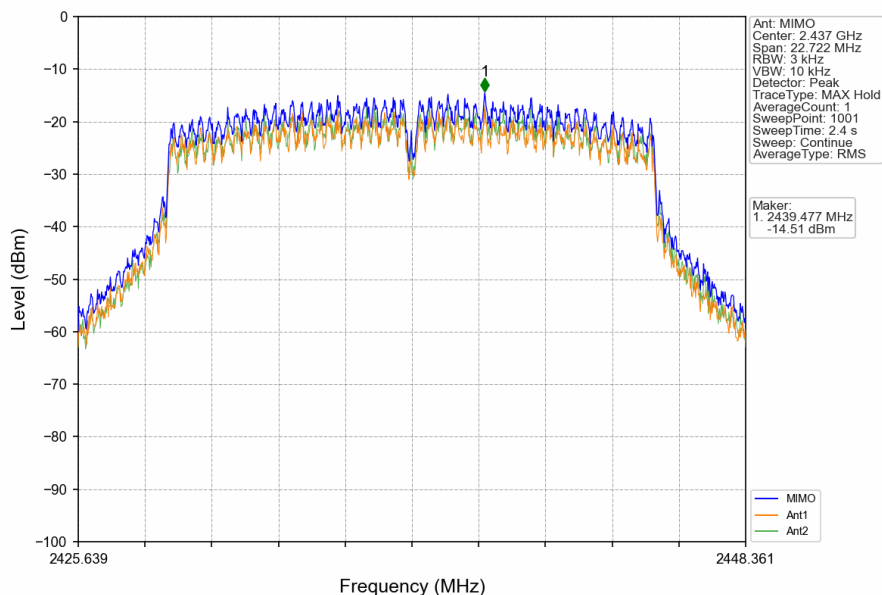
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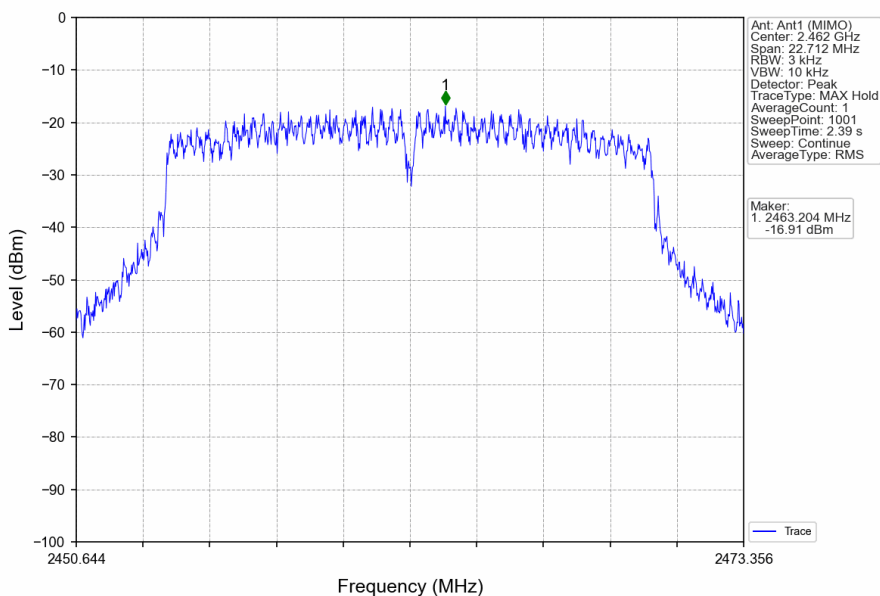
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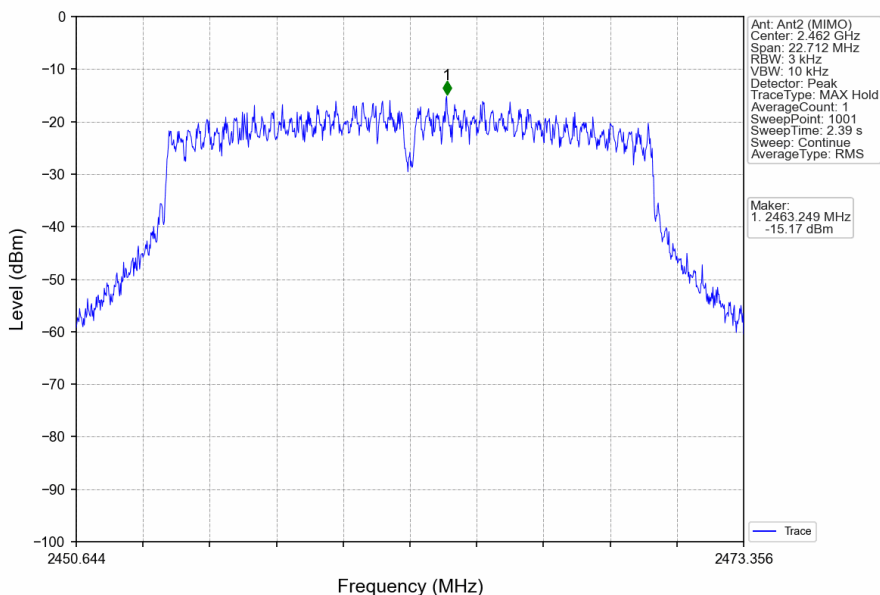
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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

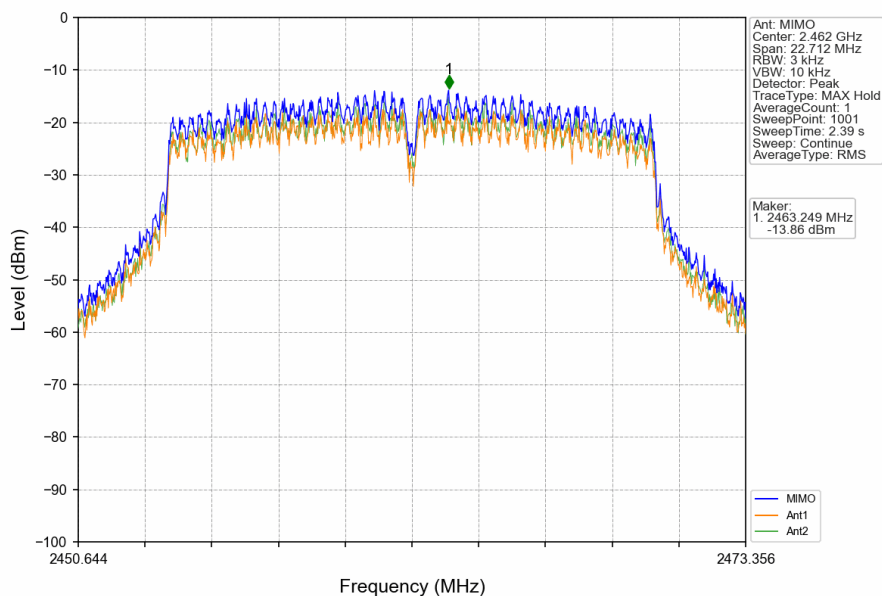


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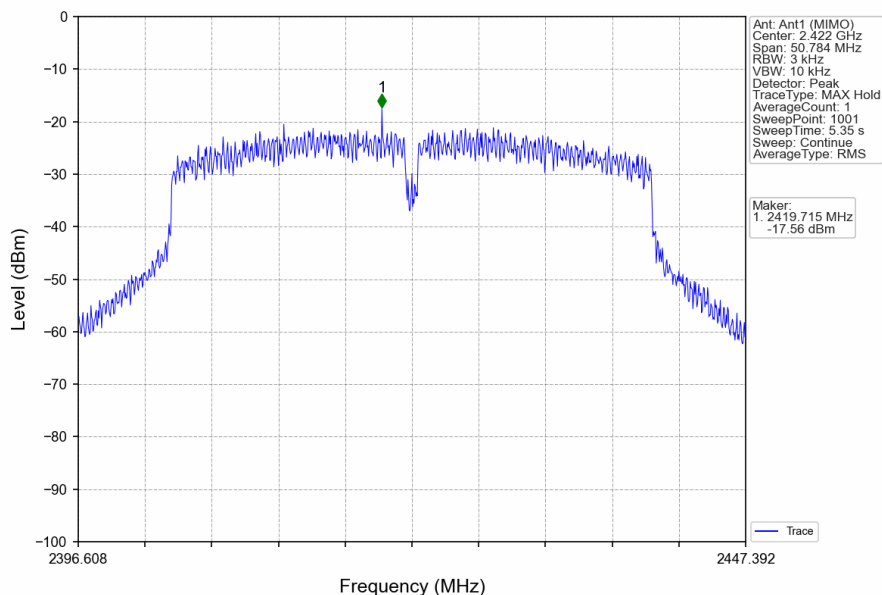
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### 802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



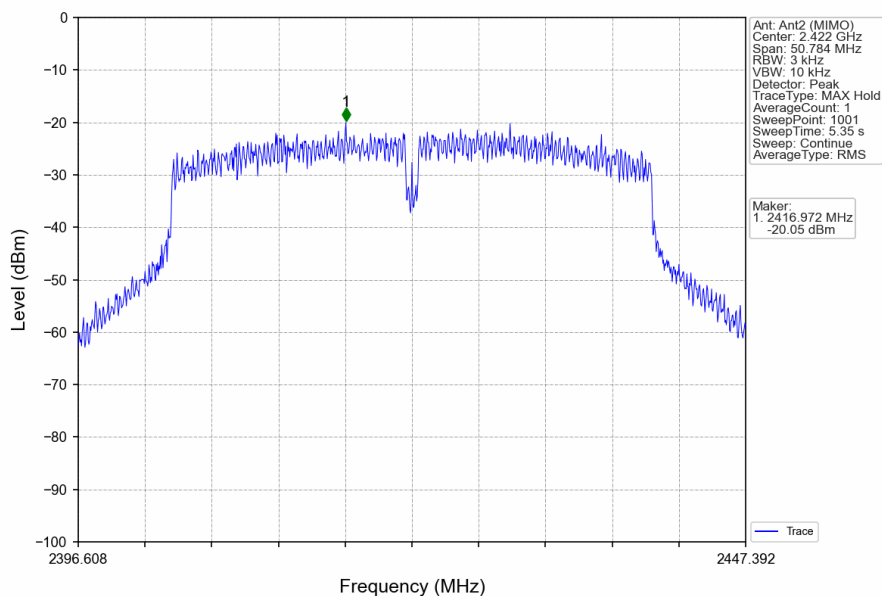
### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



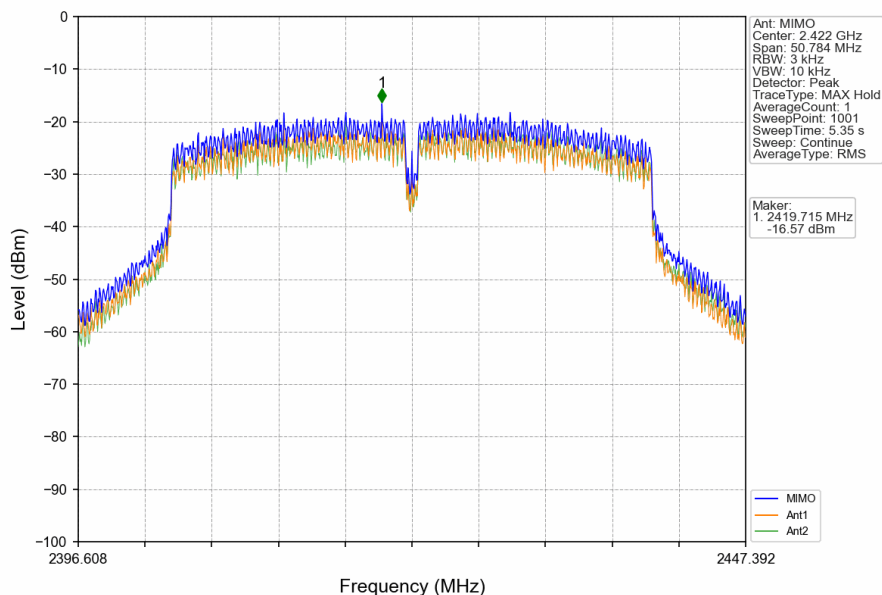
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



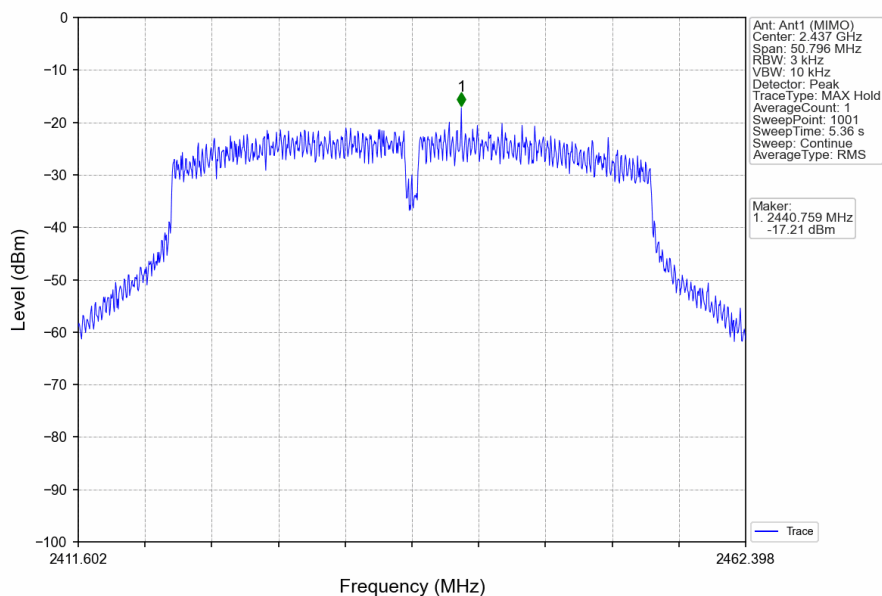
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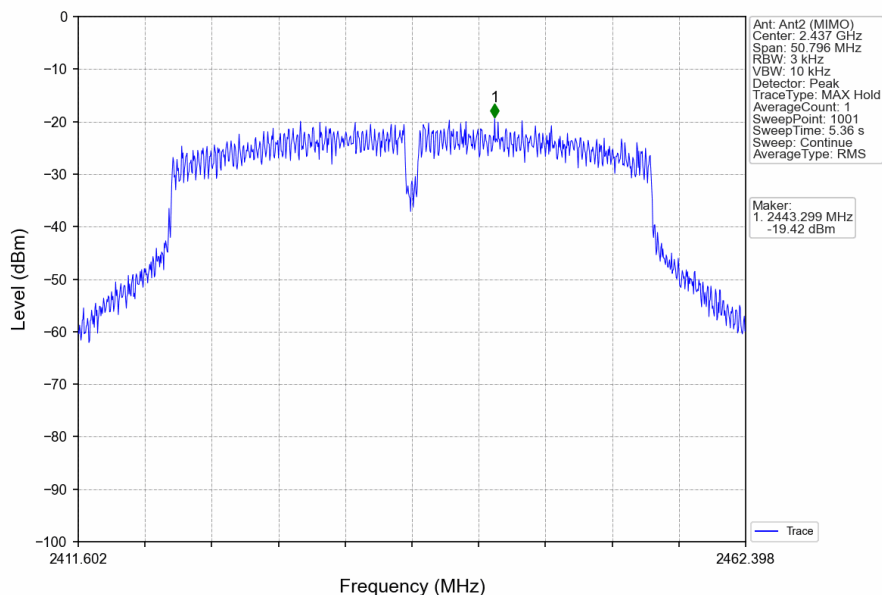
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



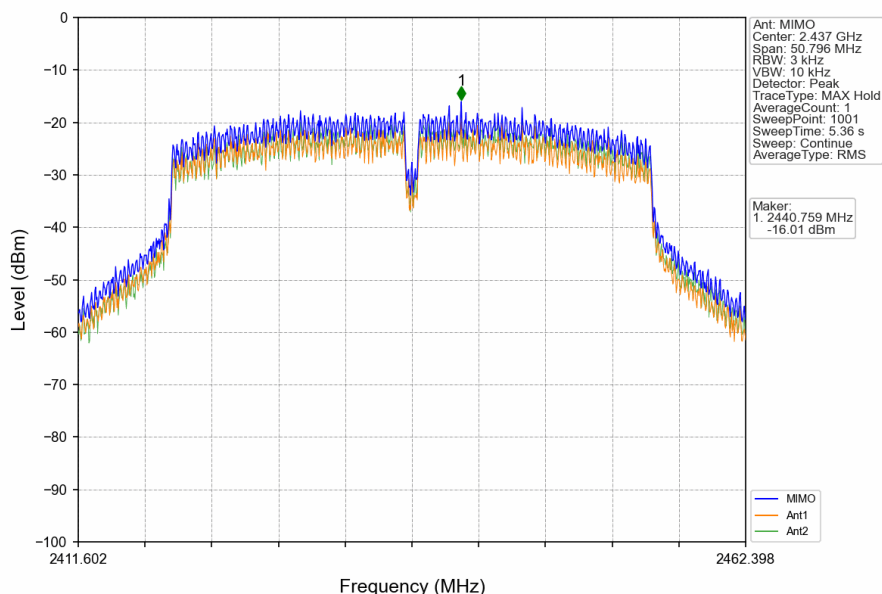
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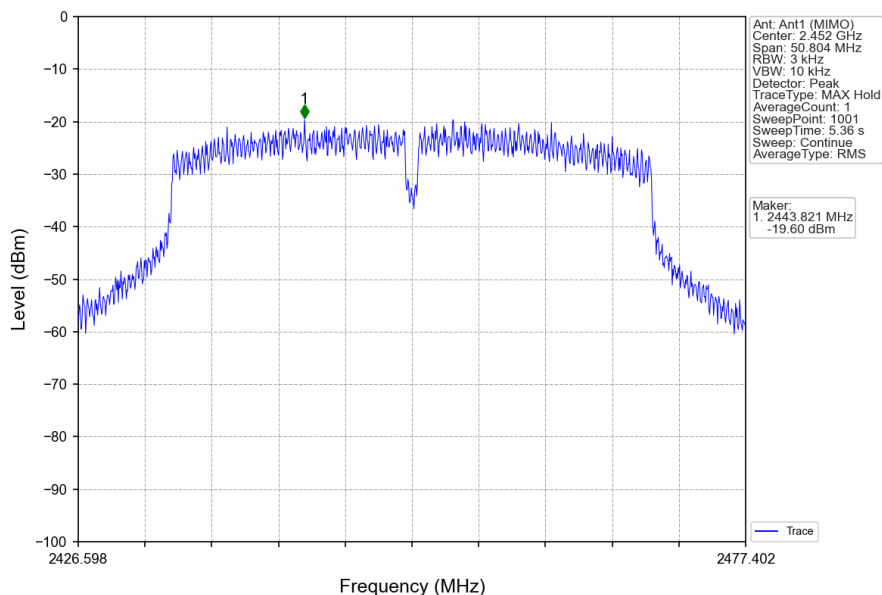
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### 802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



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

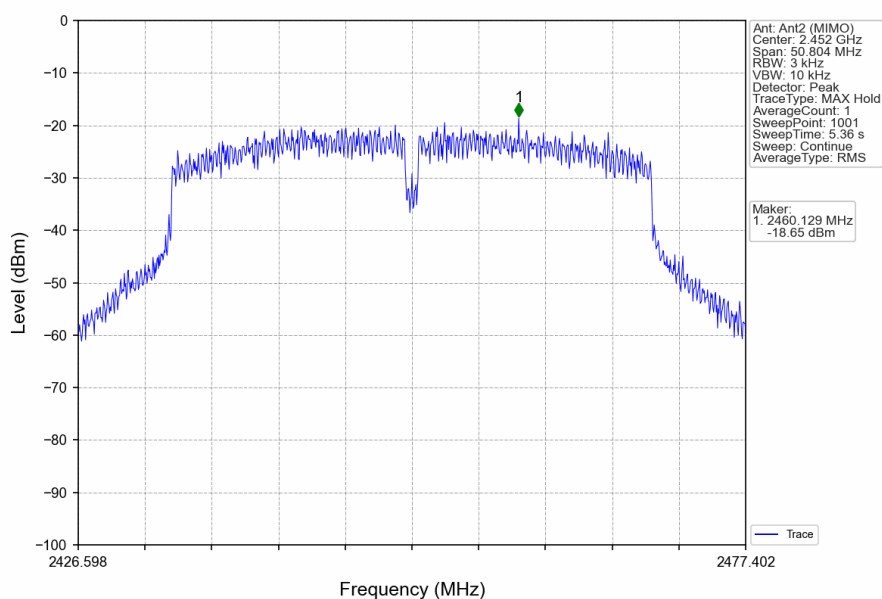


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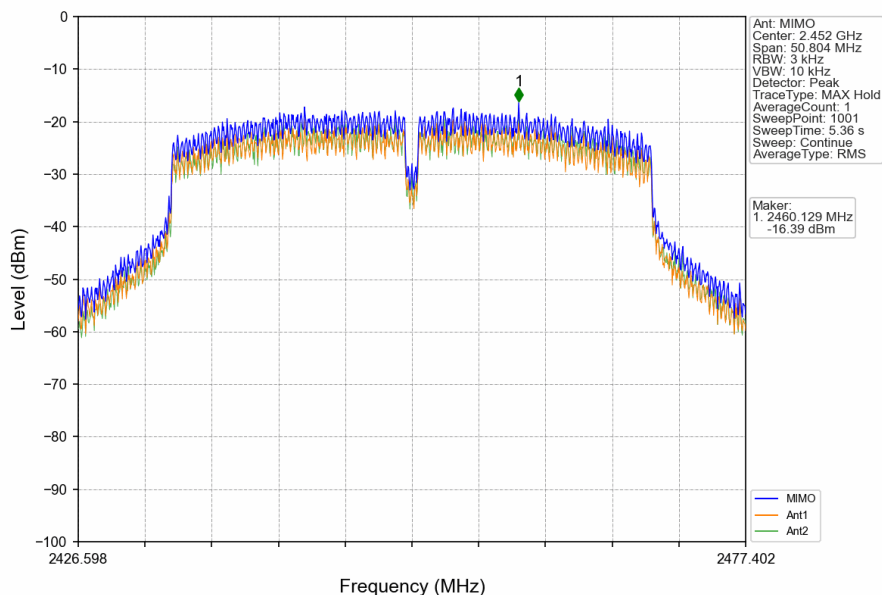
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant2 (MIMO)\_NTNV



### 802.11n(HT40)\_HCH\_2452MHz\_MIMO\_NTNV



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

#### 5.1 Ref

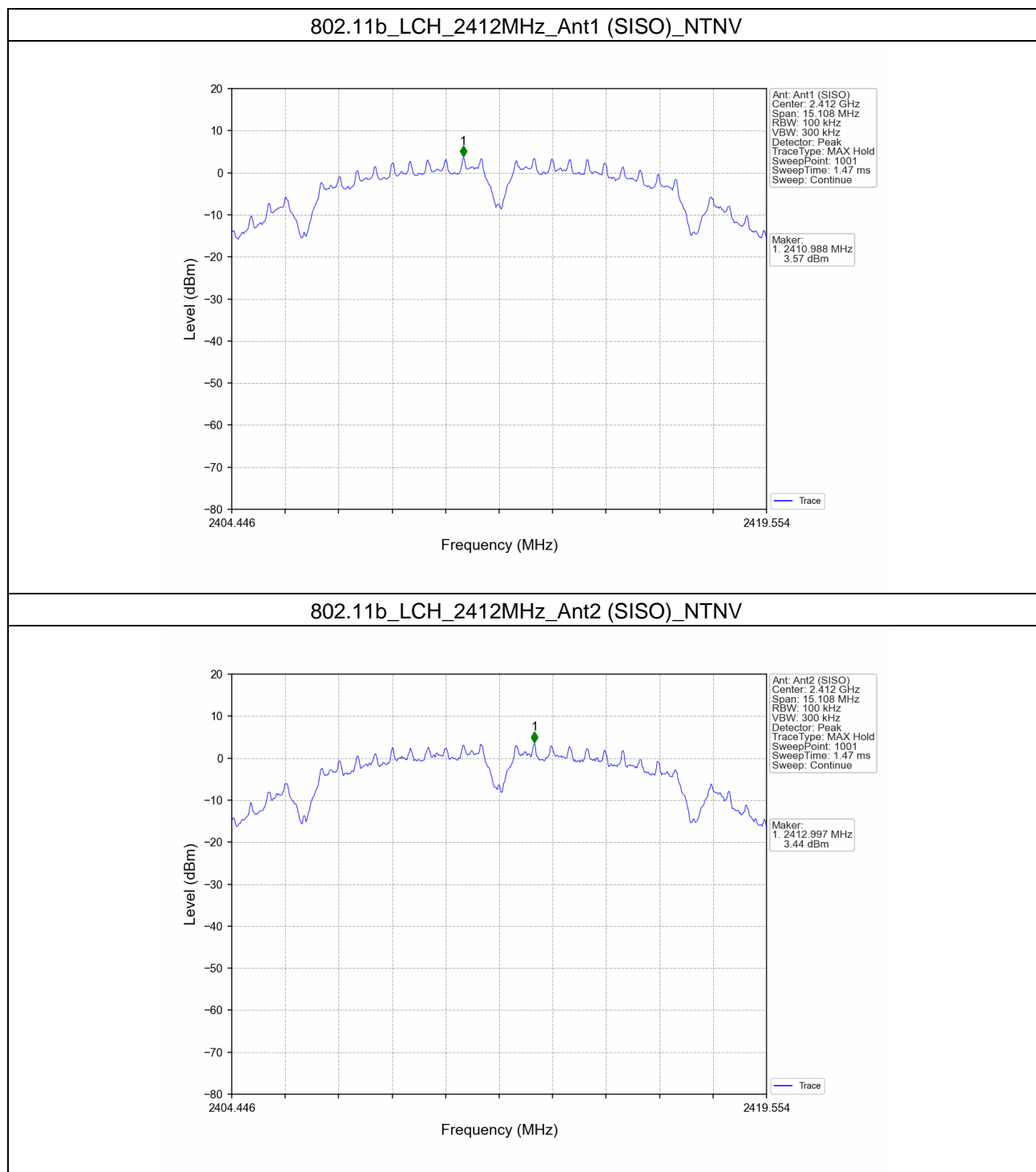
##### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	3.57
			2	3.44
		2437	1	3.33
			2	4.38
		2462	1	4.34
			2	5.49
802.11g	SISO	2412	1	-1.82
			2	-2.28
		2437	1	-2.14
			2	-1.55
		2462	1	-1.12
			2	-0.71
802.11n (HT20)	MIMO	2412	1	-1.78
			2	-2.29
		2437	1	-2.68
			2	-1.46
		2462	1	-1.13
			2	-0.43
802.11n (HT40)	MIMO	2422	1	-5.44
			2	-4.94
		2437	1	-5.03
			2	-4.31
		2452	1	-4.31
			2	-4.00

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.

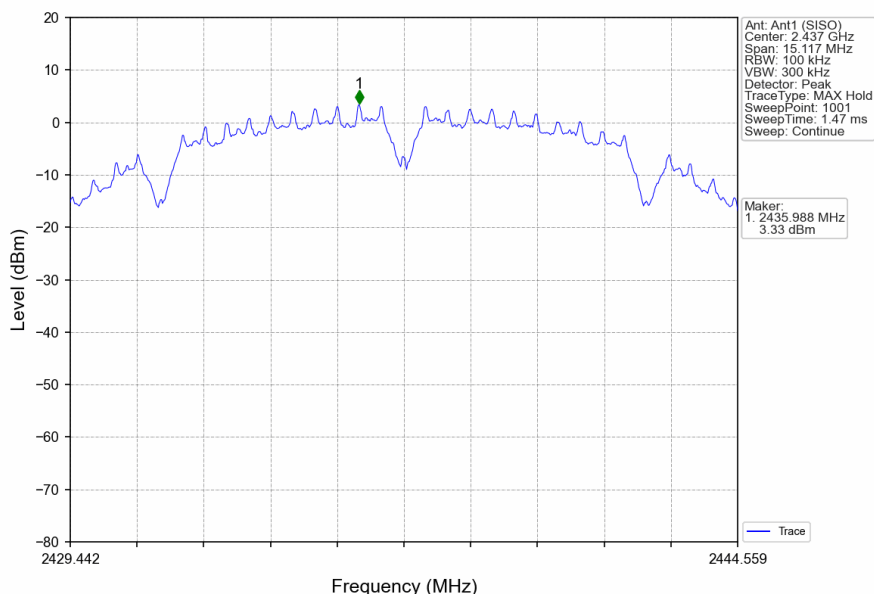
### 5.1.2 Test Graph



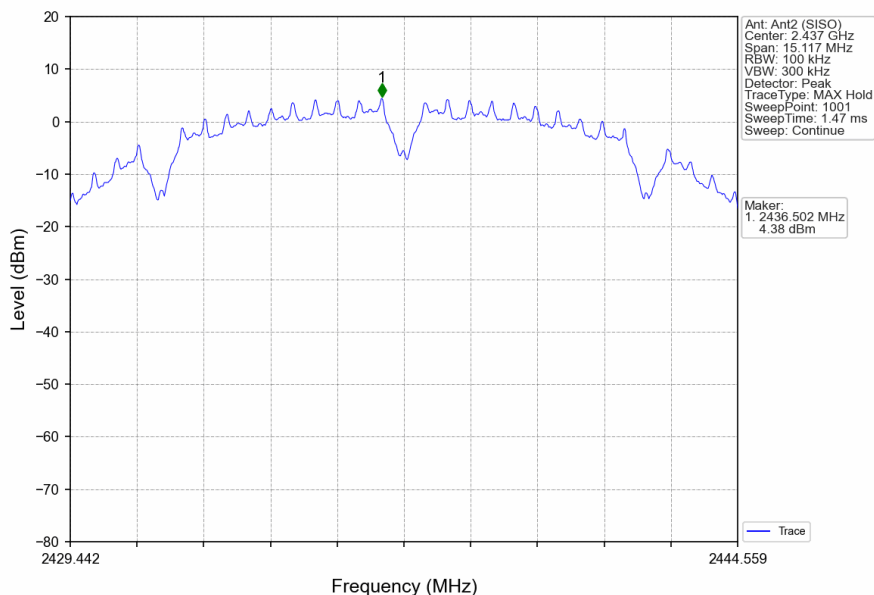
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### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

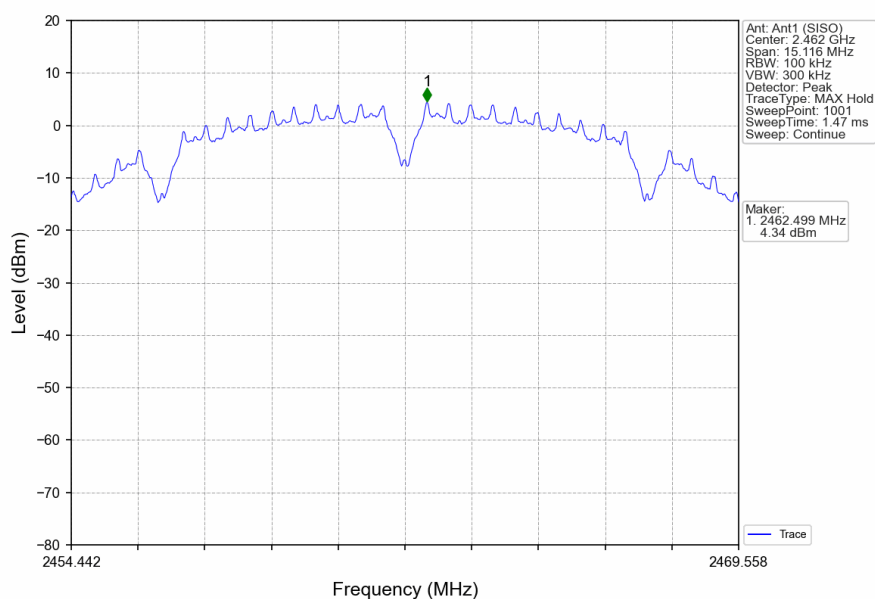


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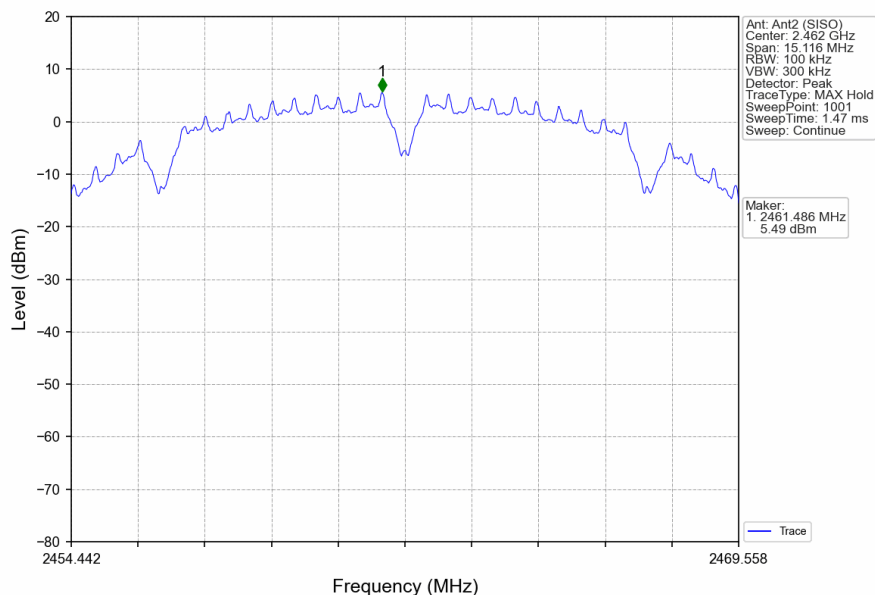
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



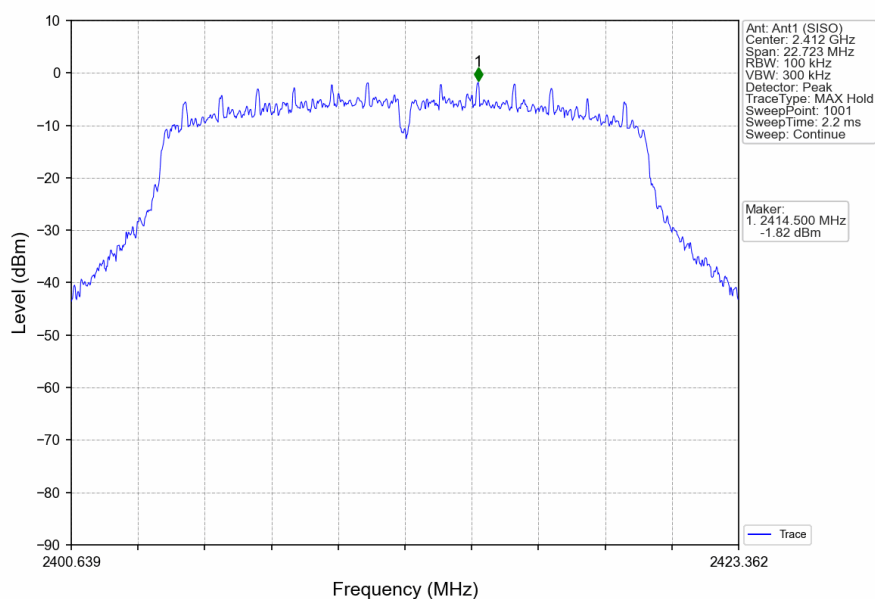
### 802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



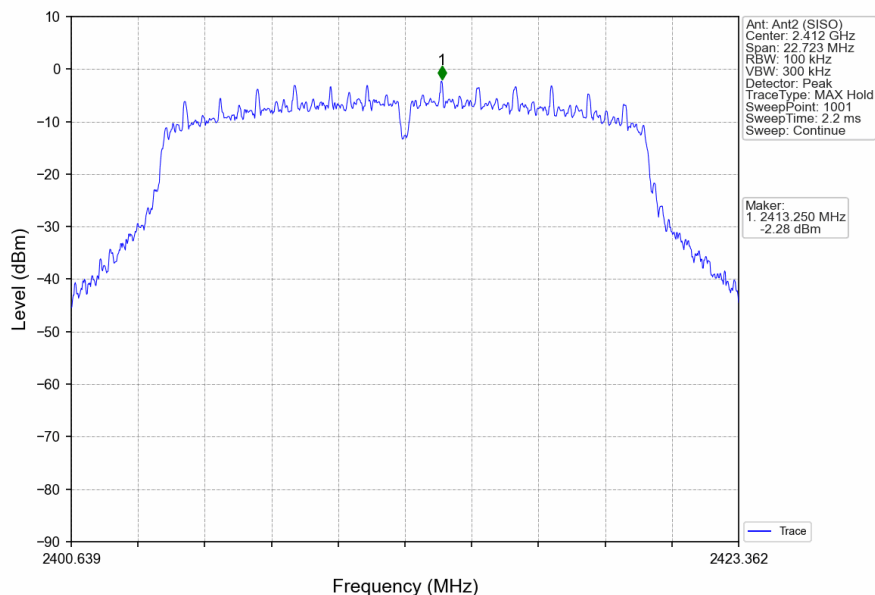
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### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



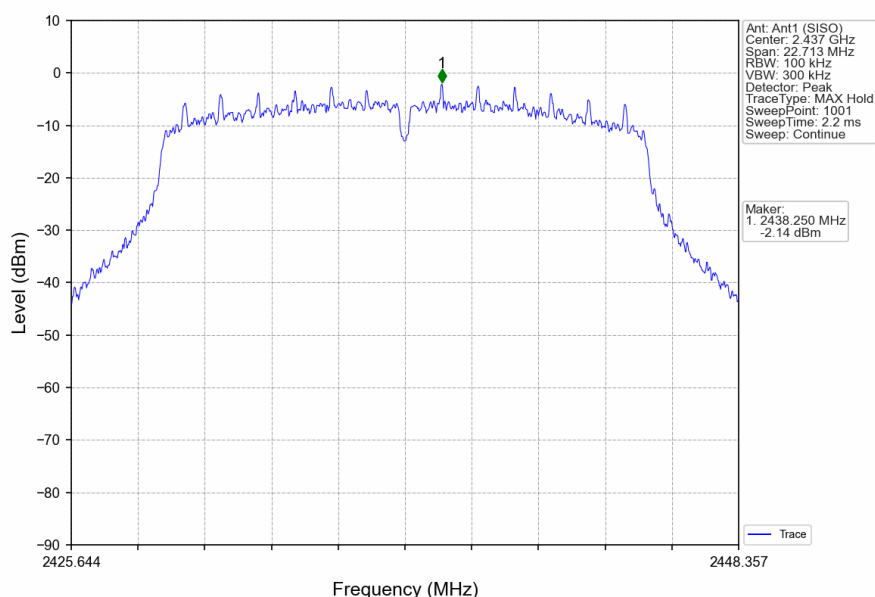
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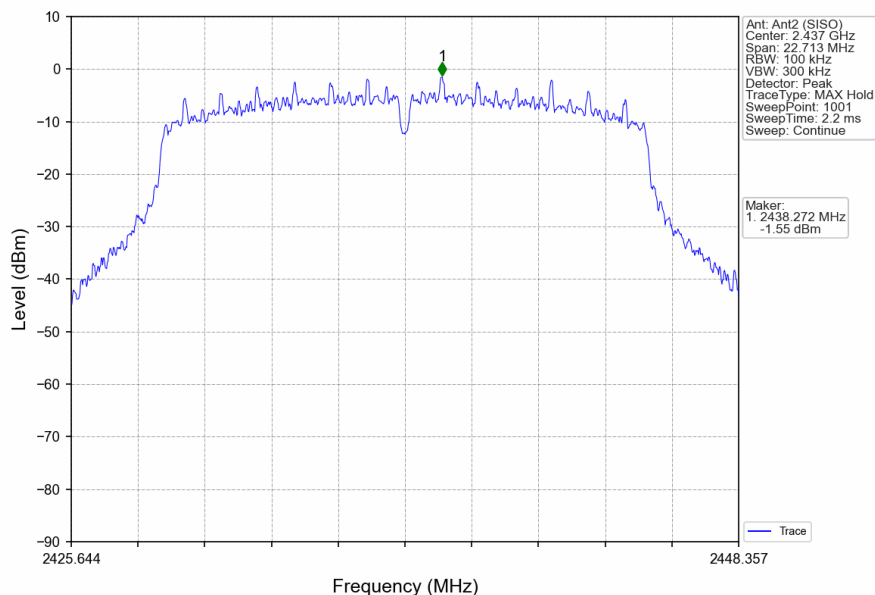
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



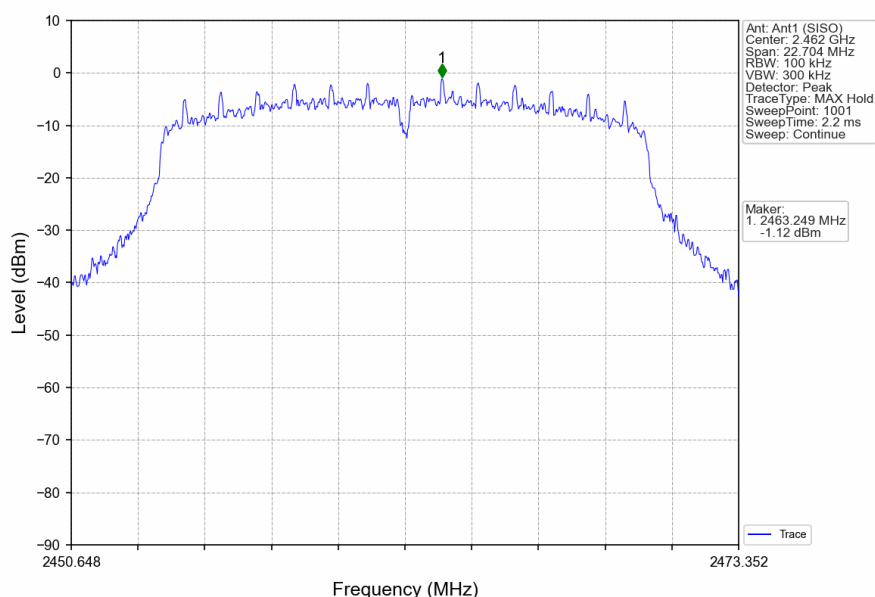
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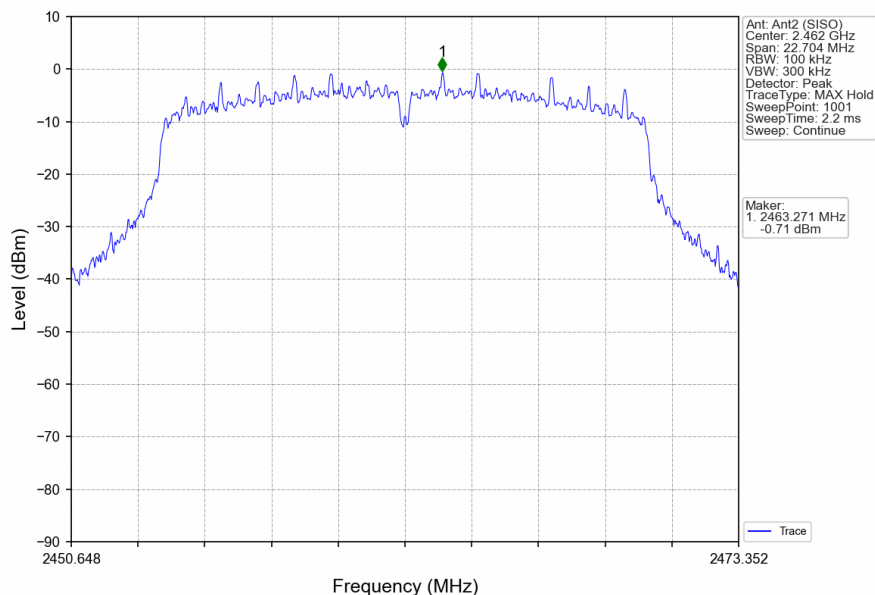
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### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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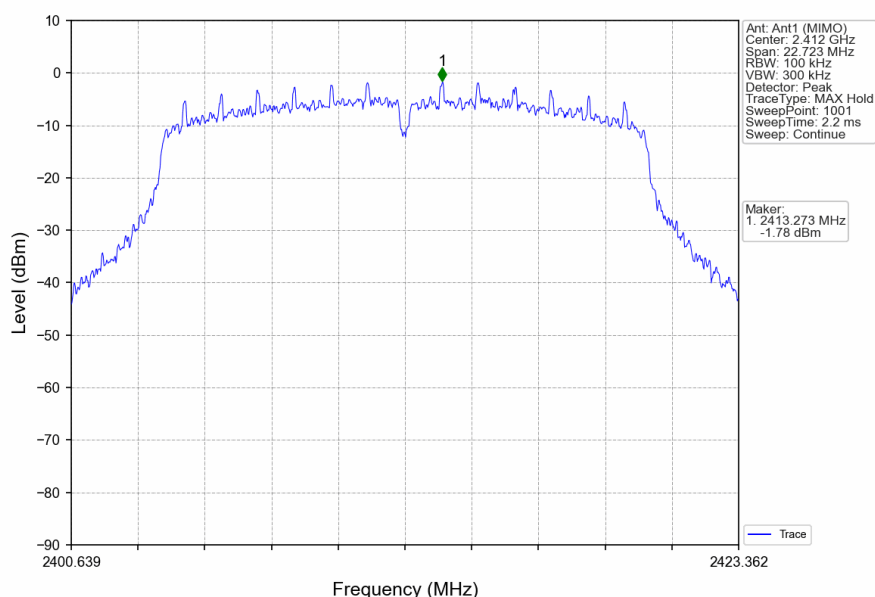
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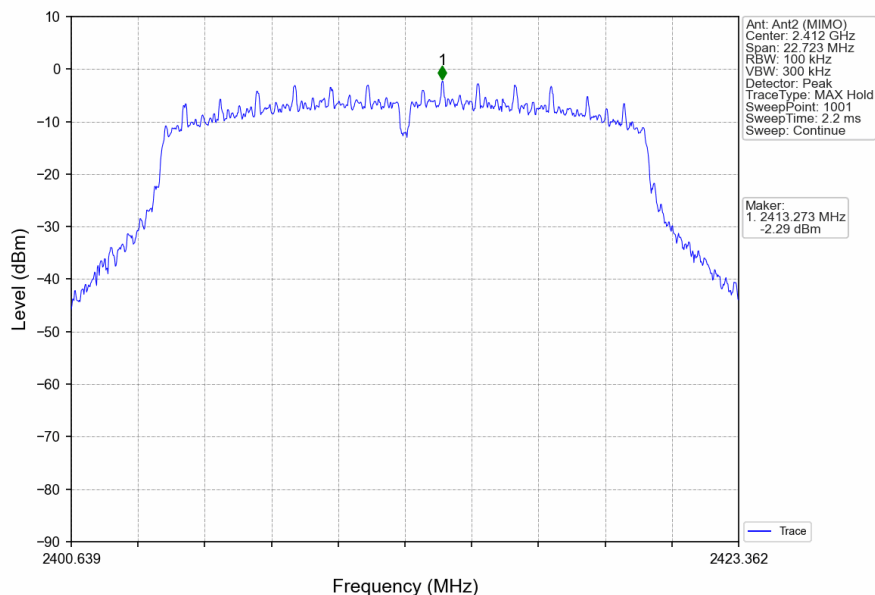
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



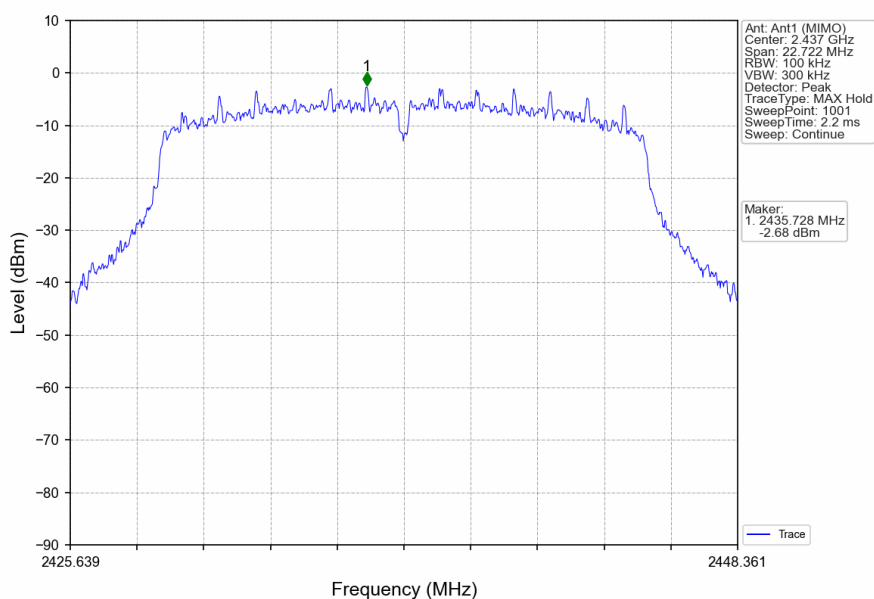
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



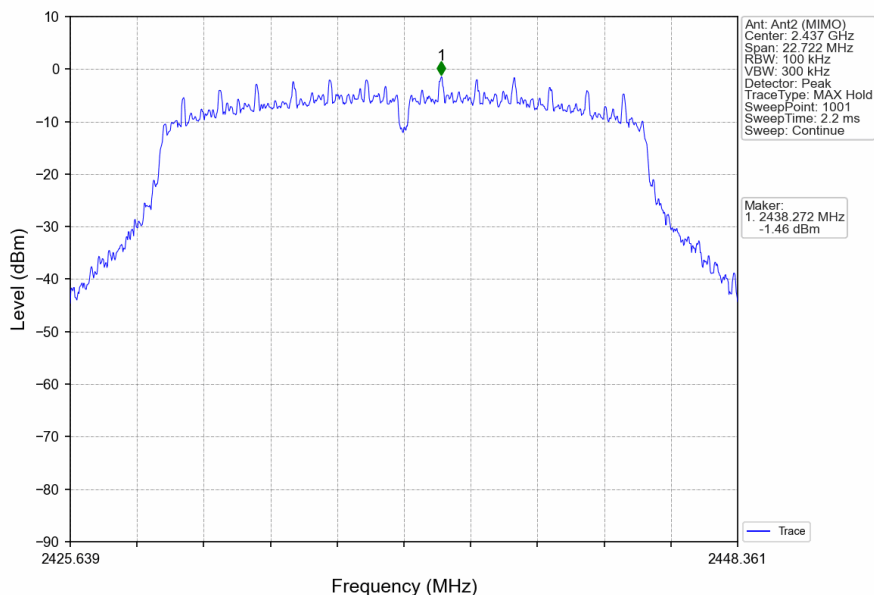
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### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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

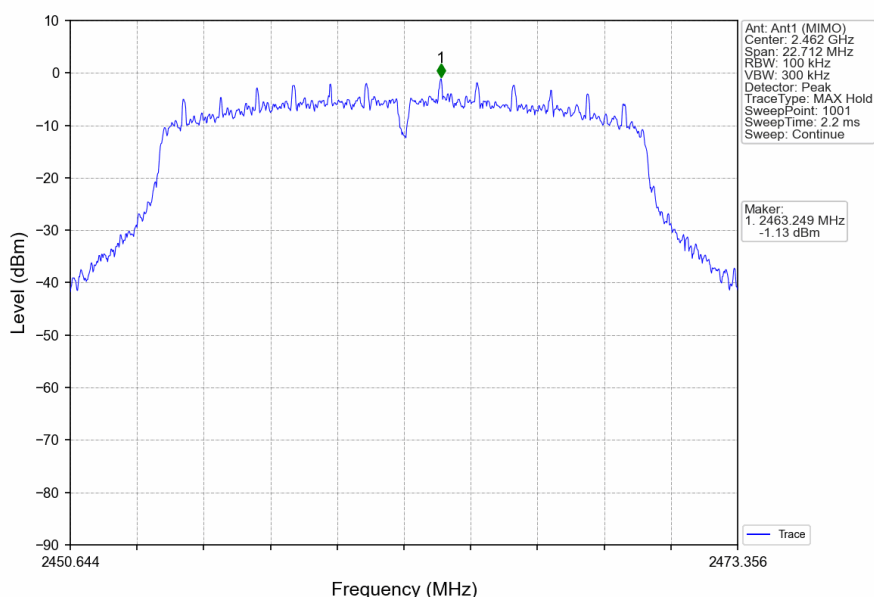


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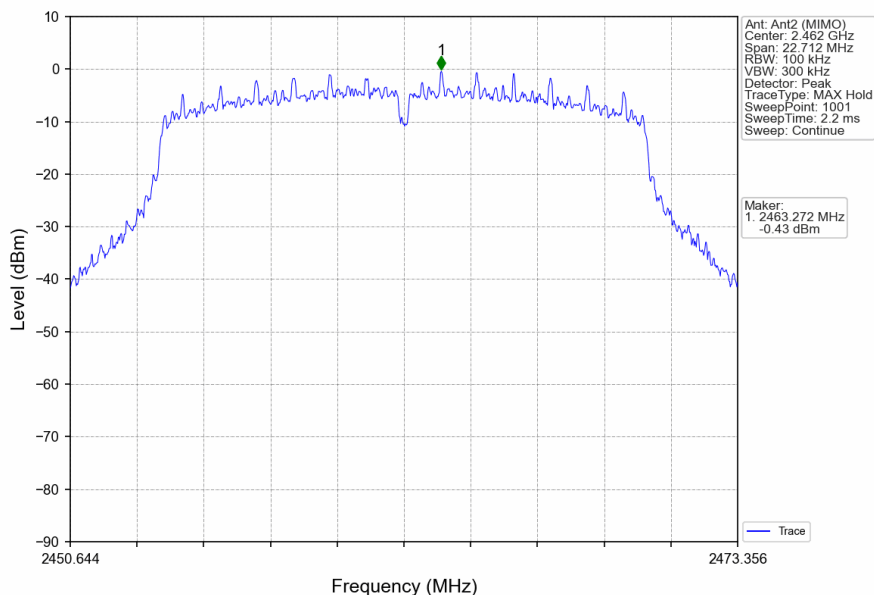
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### 802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



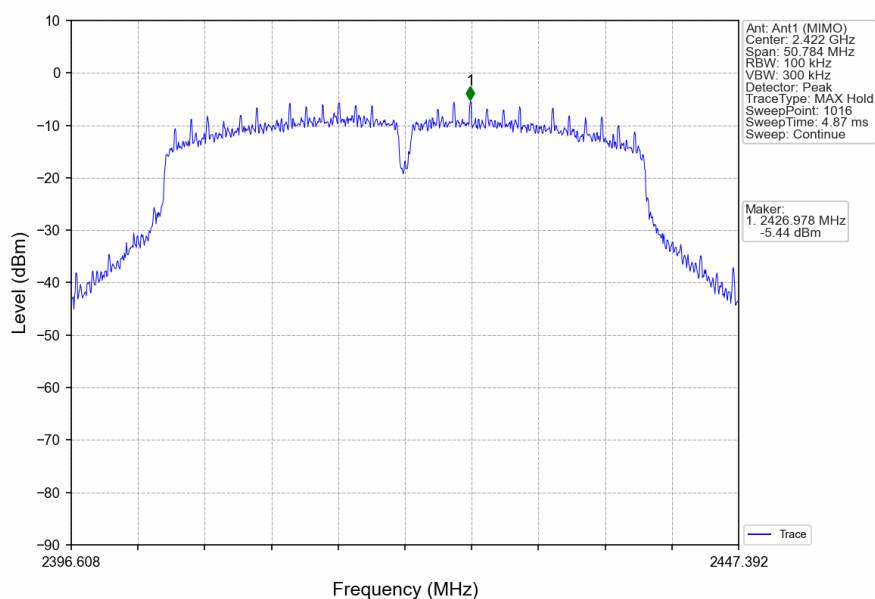
### 802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



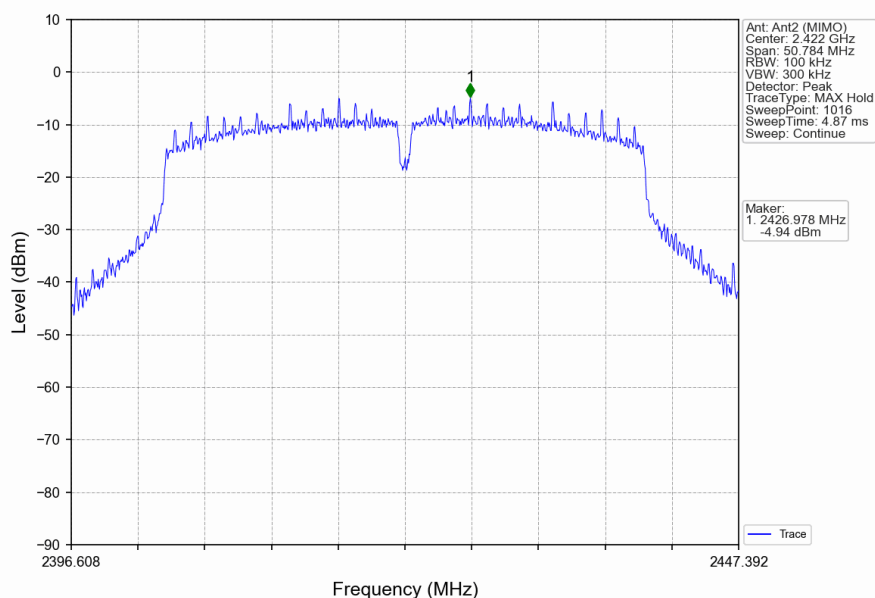
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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

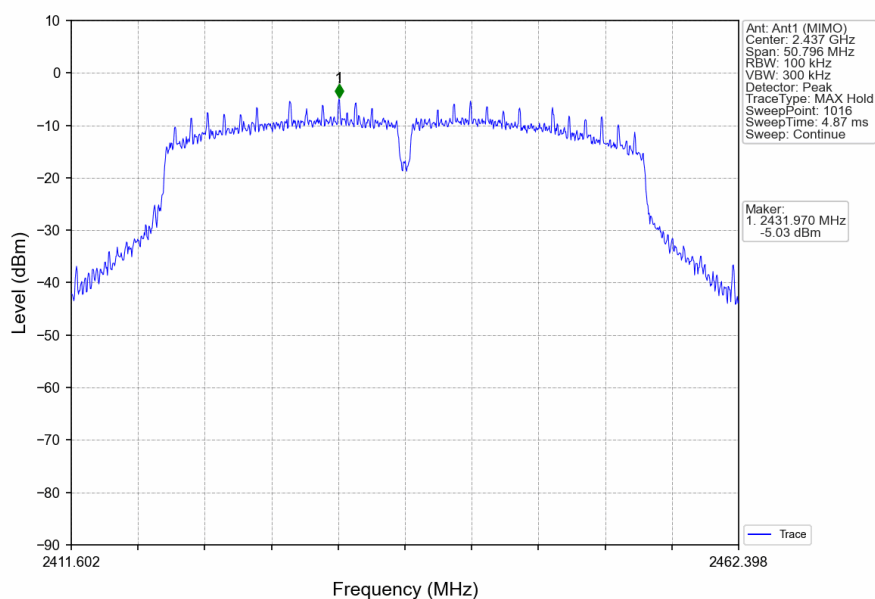


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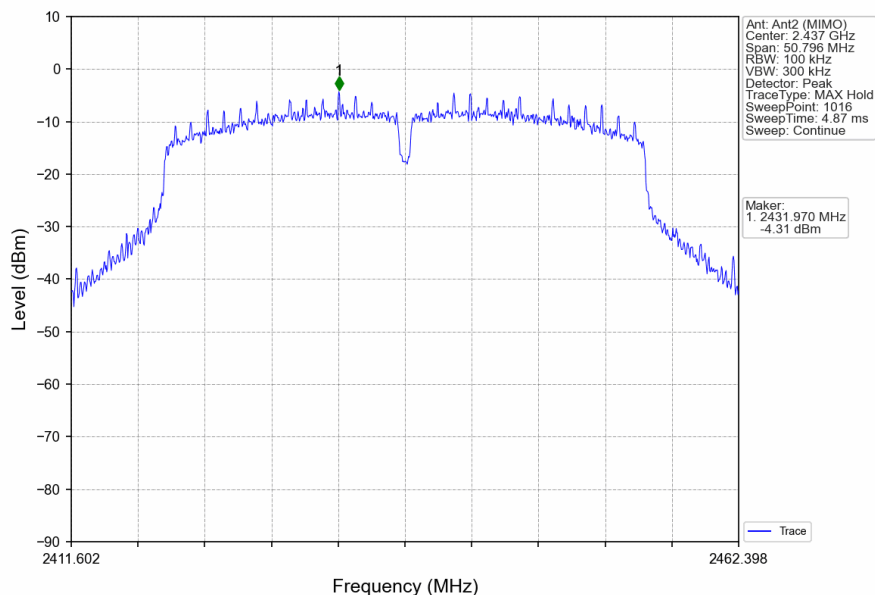
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### 802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



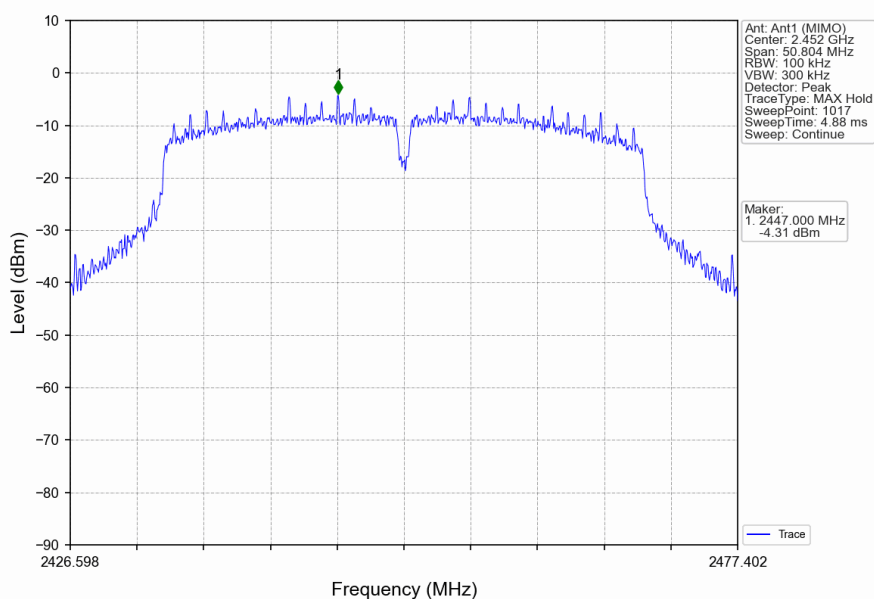
### 802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



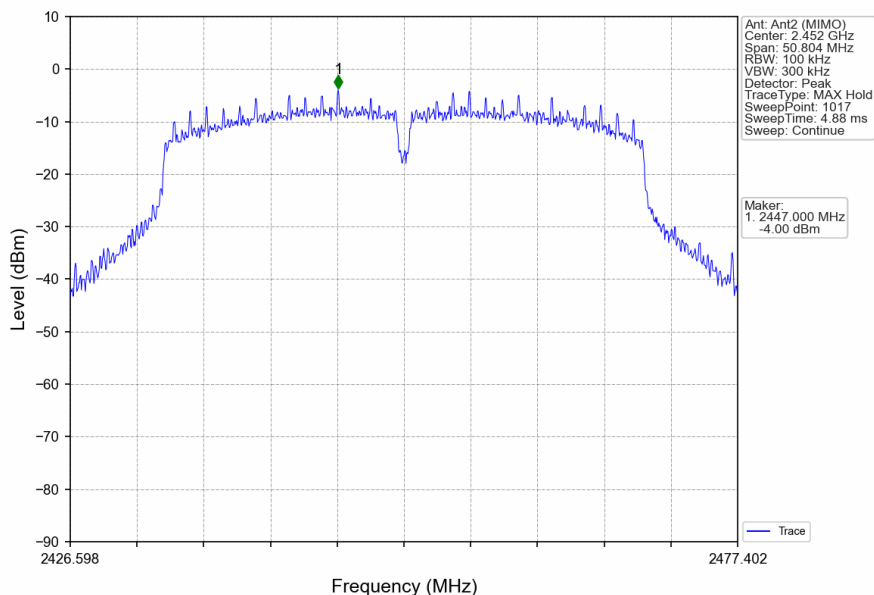
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



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



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### 5.2 CSE

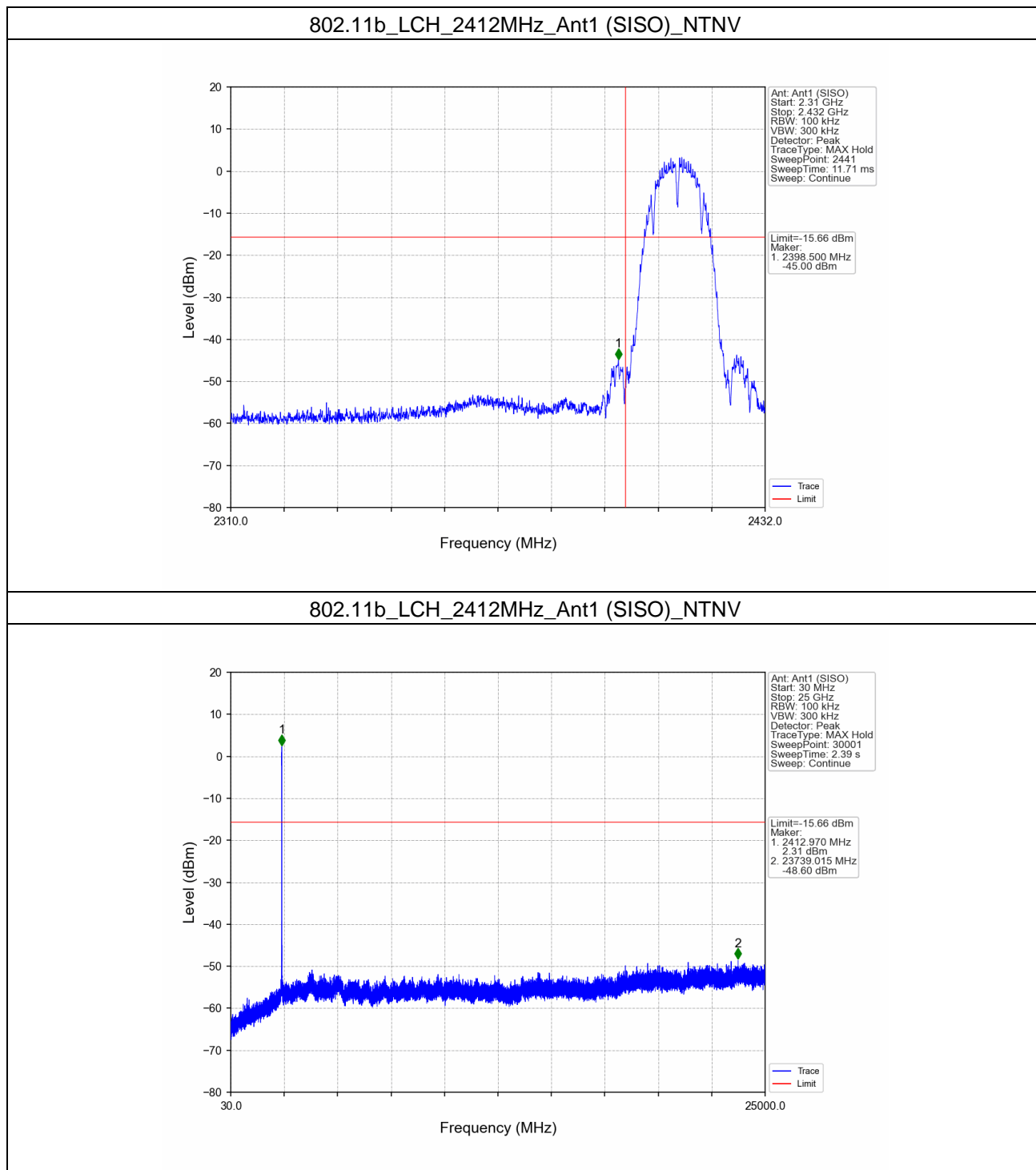
#### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.34	-15.66	Pass
			2	5.49	-14.51	Pass
		2437	1	4.34	-15.66	Pass
			2	5.49	-14.51	Pass
		2462	1	4.34	-15.66	Pass
			2	5.49	-14.51	Pass
802.11g	SISO	2412	1	-1.12	-21.12	Pass
			2	-0.71	-20.71	Pass
		2437	1	-1.12	-21.12	Pass
			2	-0.71	-20.71	Pass
		2462	1	-1.12	-21.12	Pass
			2	-0.71	-20.71	Pass
802.11n (HT20)	MIMO	2412	1	-1.13	-21.13	Pass
			2	-0.43	-20.43	Pass
		2437	1	-1.13	-21.13	Pass
			2	-0.43	-20.43	Pass
		2462	1	-1.13	-21.13	Pass
			2	-0.43	-20.43	Pass
802.11n (HT40)	MIMO	2422	1	-4.31	-24.31	Pass
			2	-4.00	-24.00	Pass
		2437	1	-4.31	-24.31	Pass
			2	-4.00	-24.00	Pass
		2452	1	-4.31	-24.31	Pass
			2	-4.00	-24.00	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.

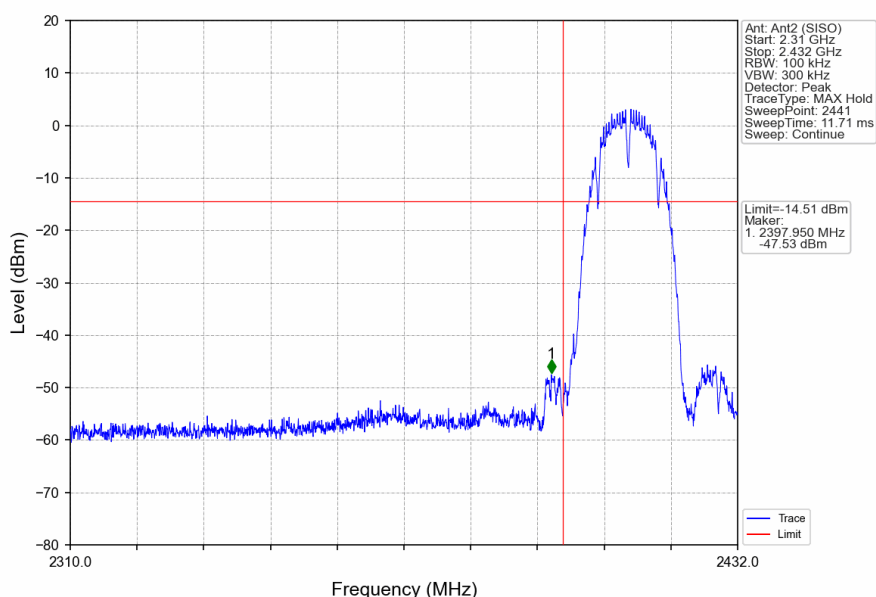
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

### 5.2.2 Test Graph

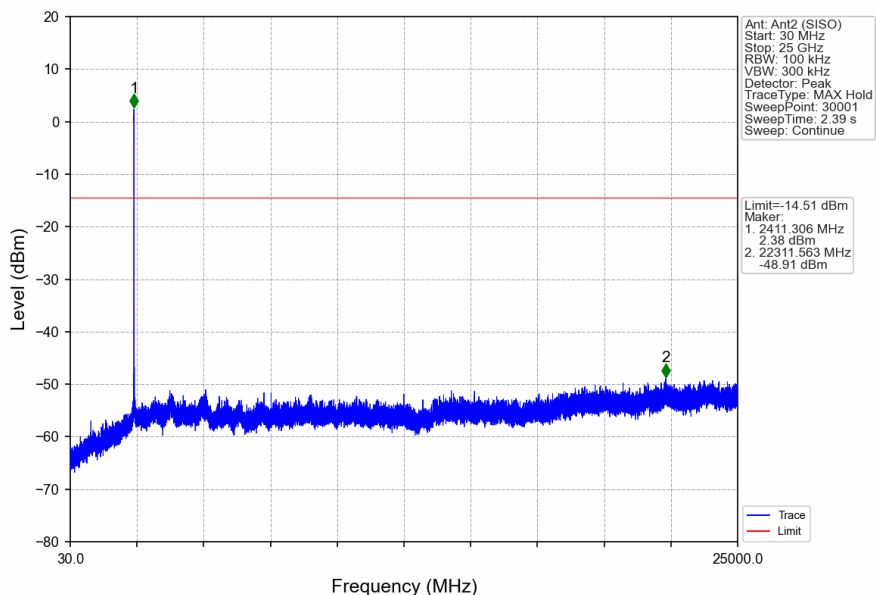




### 802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



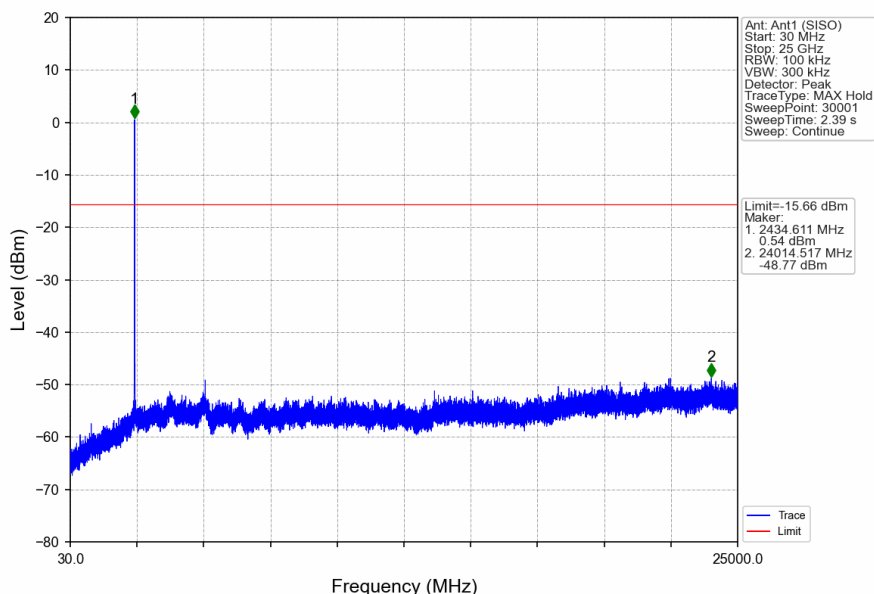
### 802.11b\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



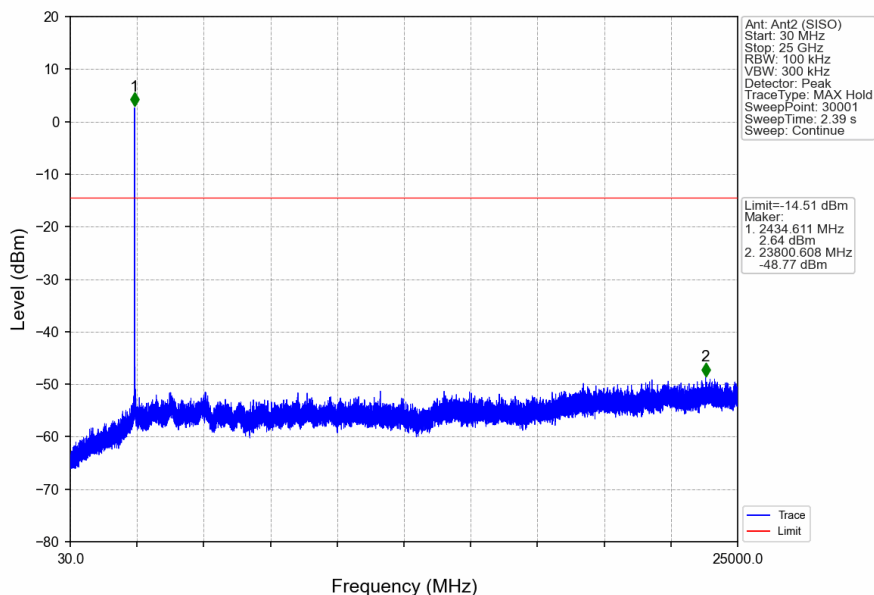
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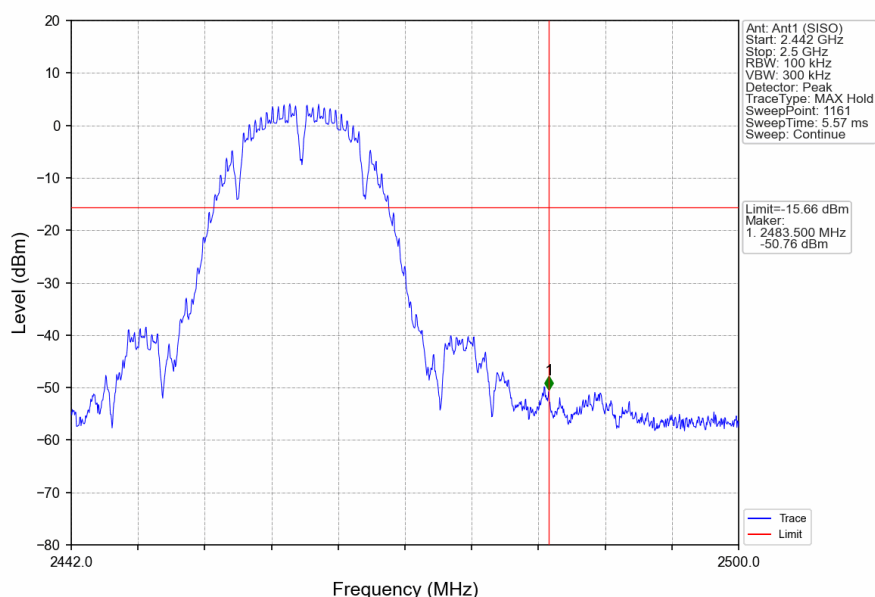
### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



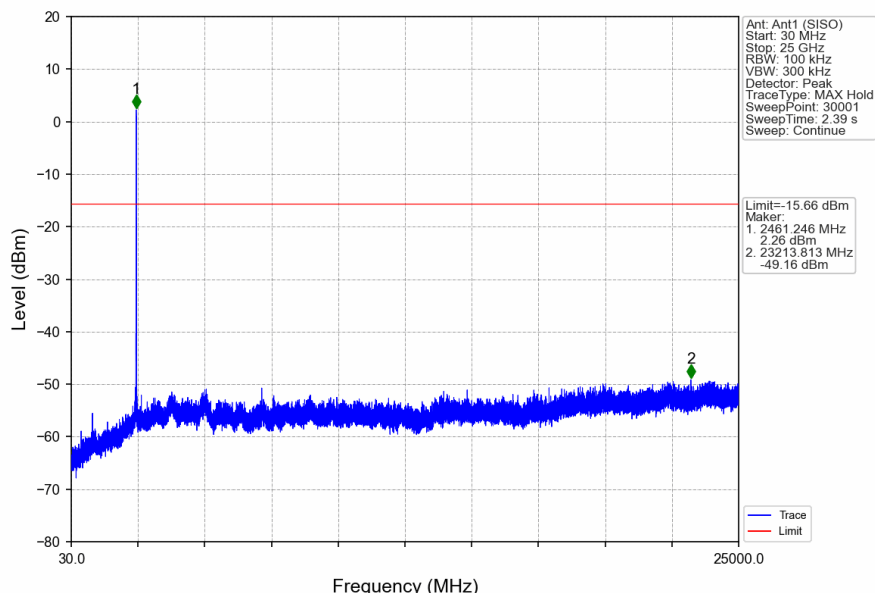
### 802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



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



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



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