

Appendix A for KSCR220400050301

1. Duty Cycle

1.1 Ant1

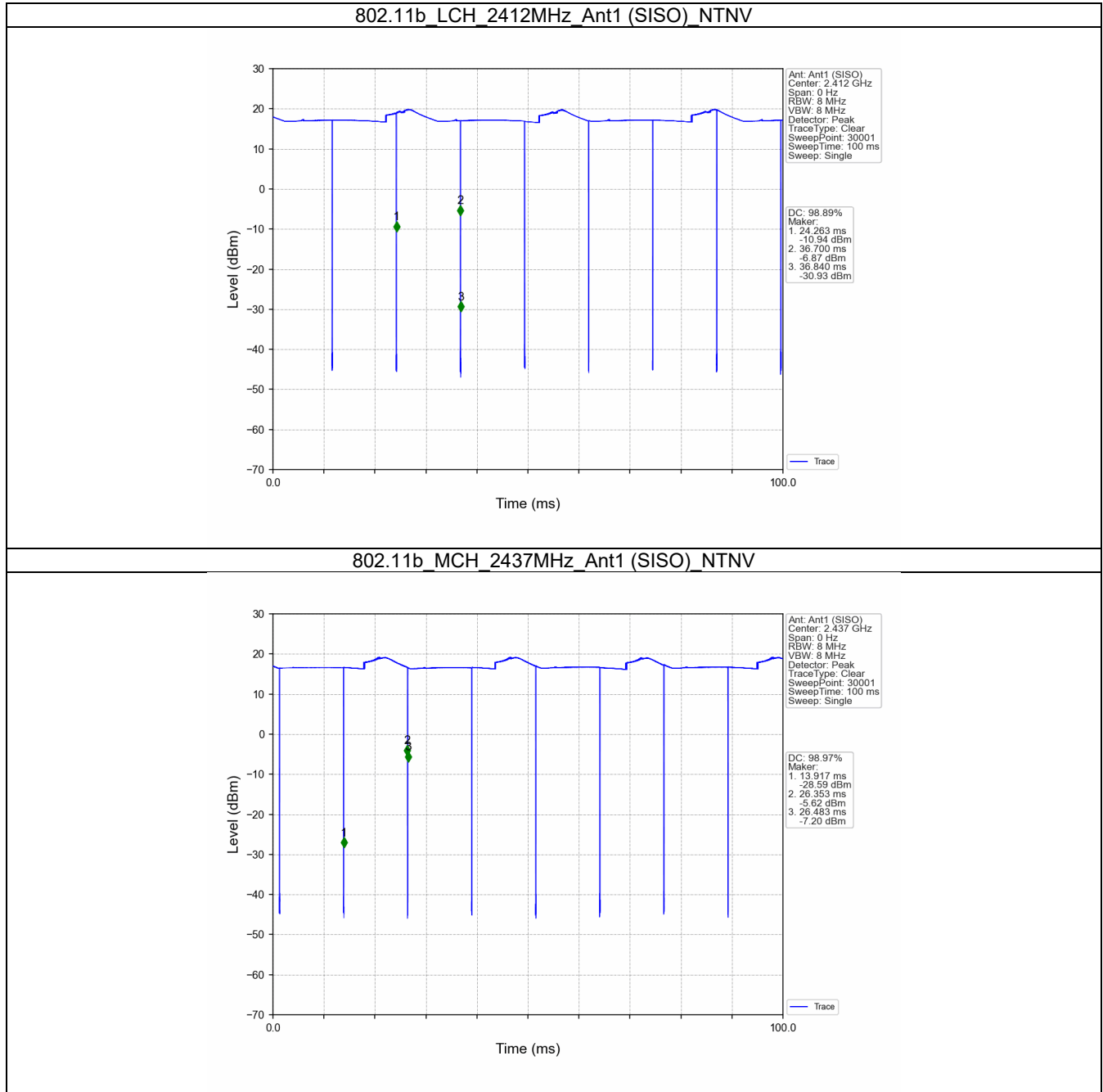
1.1.1 Test Result

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	12.437	12.577	98.89	0.05	0.13
		2437	12.436	12.566	98.97	0.05	0.05
		2462	12.433	12.737	97.61	0.10	1.35
802.11g	SISO	2412	2.066	2.101	98.33	0.07	0.03
		2437	2.065	2.100	98.33	0.07	0.03
		2462	2.065	2.100	98.33	0.07	0.03
802.11n (HT20)	SISO	2412	1.926	1.960	98.27	0.08	0.03
		2437	1.926	1.960	98.27	0.08	0.07
		2462	1.926	1.960	98.27	0.08	0.07
802.11n (HT40)	SISO	2422	0.950	0.999	95.10	0.22	0.03
		2437	0.949	0.999	94.99	0.22	0.00
		2452	0.949	0.999	94.99	0.22	0.03



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1.1.2 Test Graph



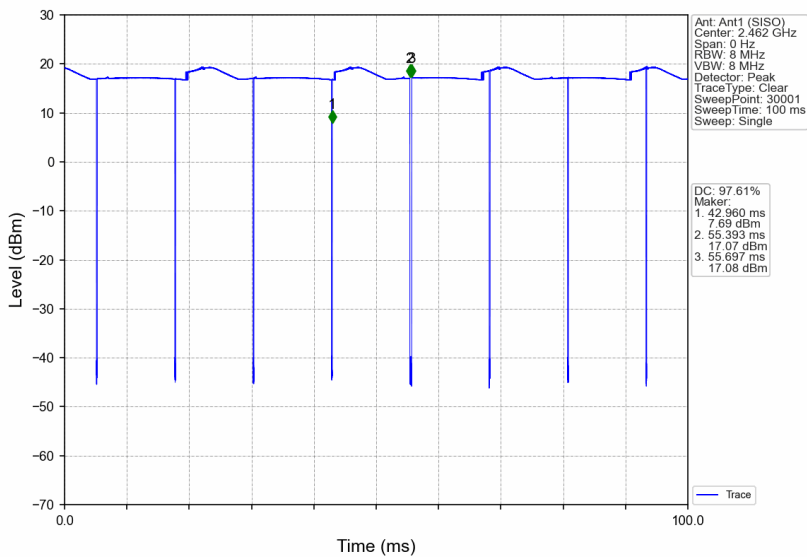
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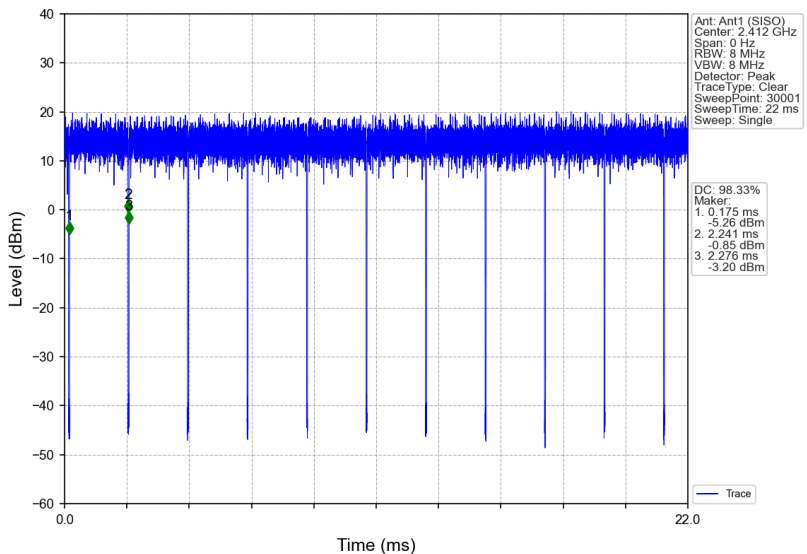
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### 802.11b HCH 2462MHz Ant1 (SISO) NTN



### 802.11g LCH 2412MHz Ant1 (SISO) NTN



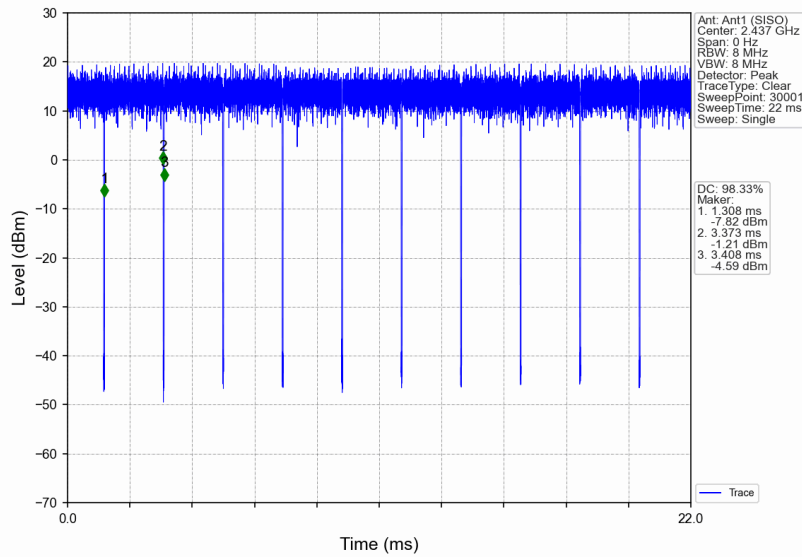
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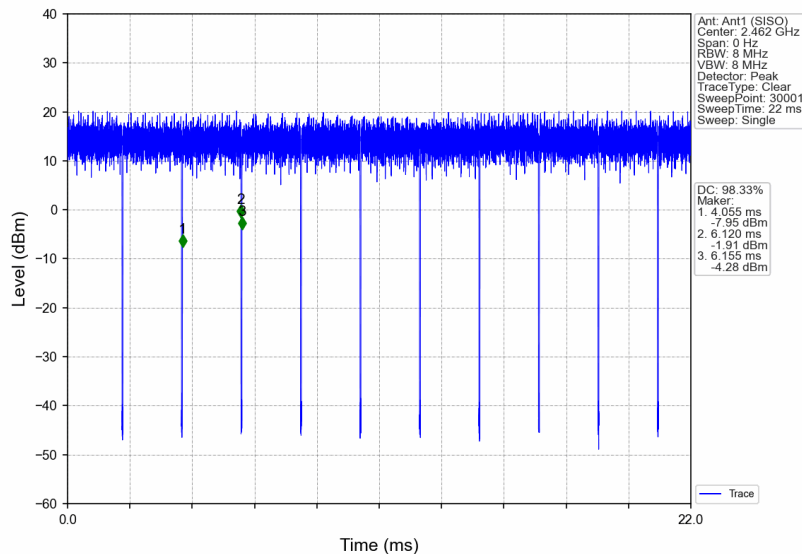
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### 802.11g MCH 2437MHz Ant1 (SISO) NTN



### 802.11g HCH 2462MHz Ant1 (SISO) NTN



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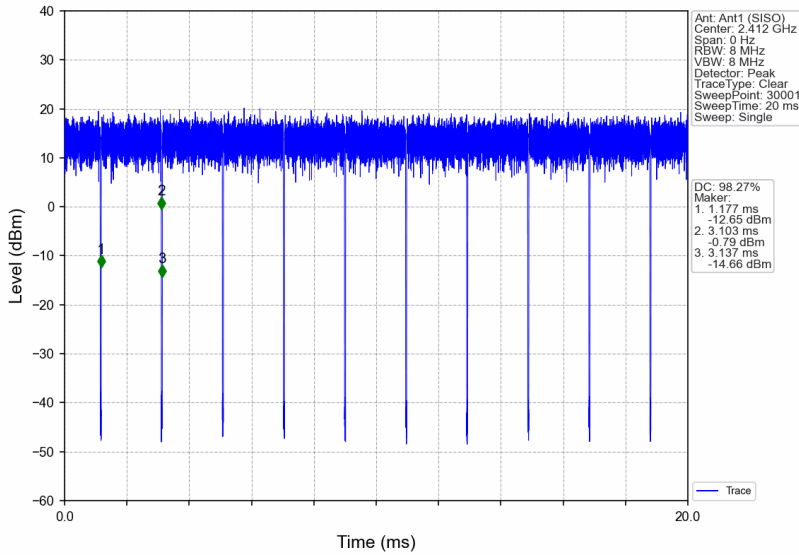
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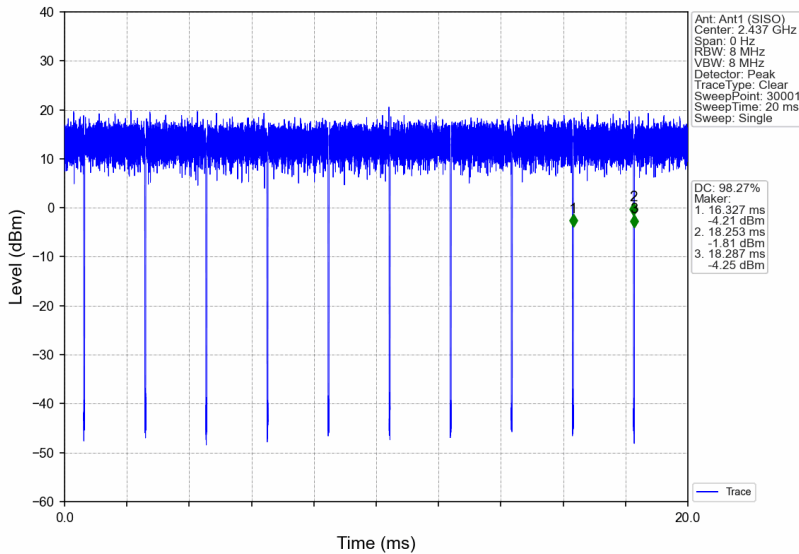
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### 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



### 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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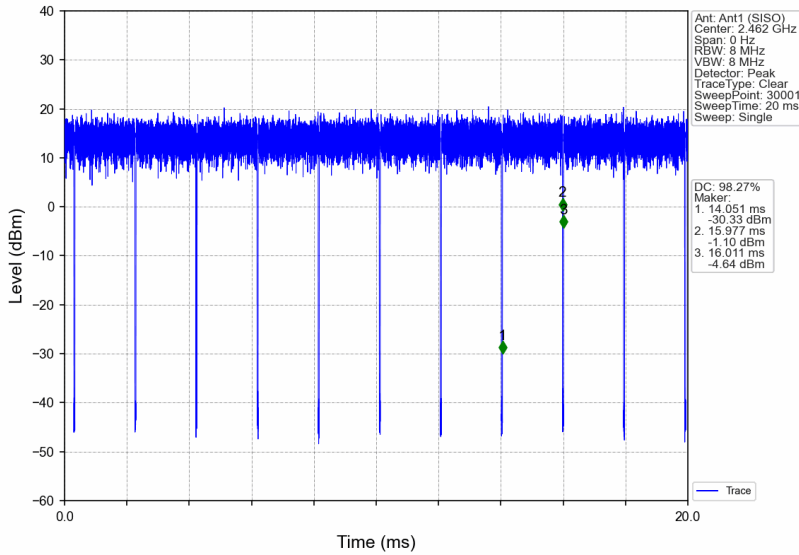
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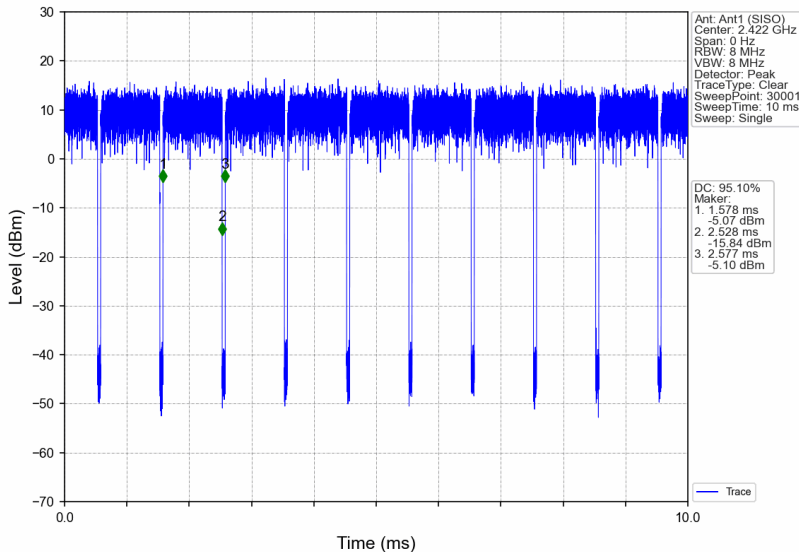
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



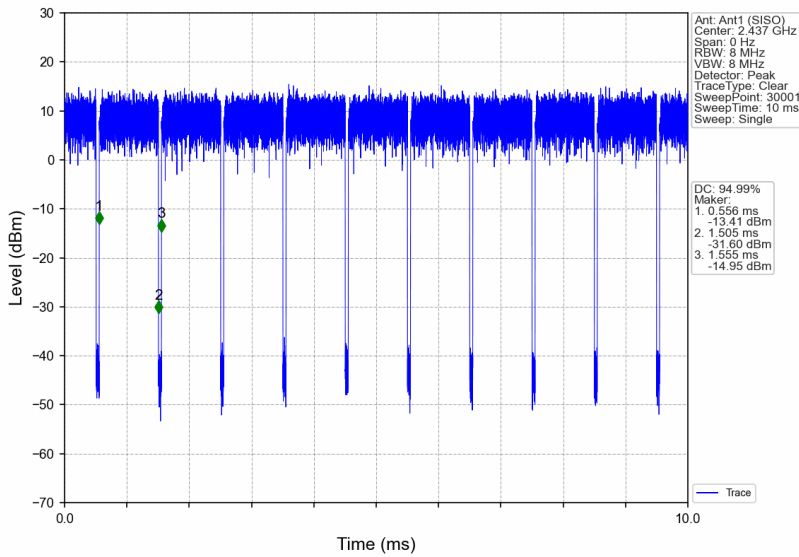
802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



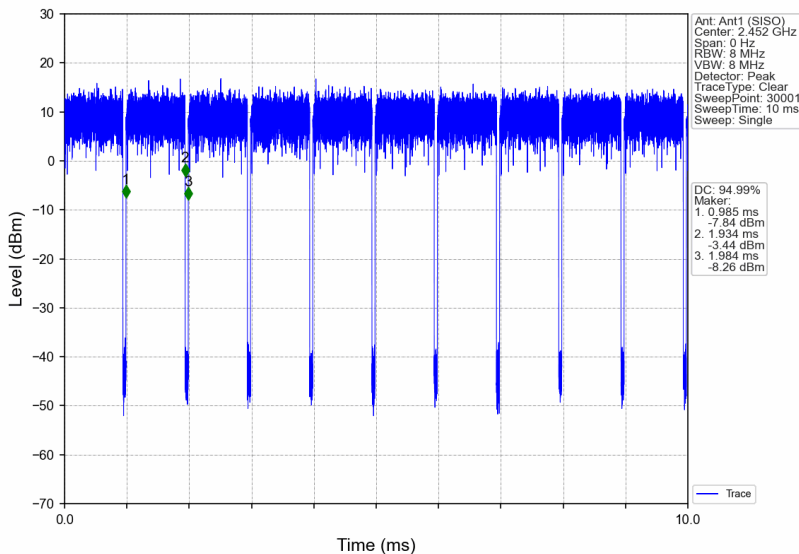
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN



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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	13.954	Pass
		2437	1	13.855	Pass
		2462	1	13.867	Pass
802.11g	SISO	2412	1	17.823	Pass
		2437	1	17.753	Pass
		2462	1	17.796	Pass
802.11n (HT20)	SISO	2412	1	18.831	Pass
		2437	1	18.761	Pass
		2462	1	18.812	Pass
802.11n (HT40)	SISO	2422	1	37.348	Pass
		2437	1	37.284	Pass
		2452	1	37.378	Pass

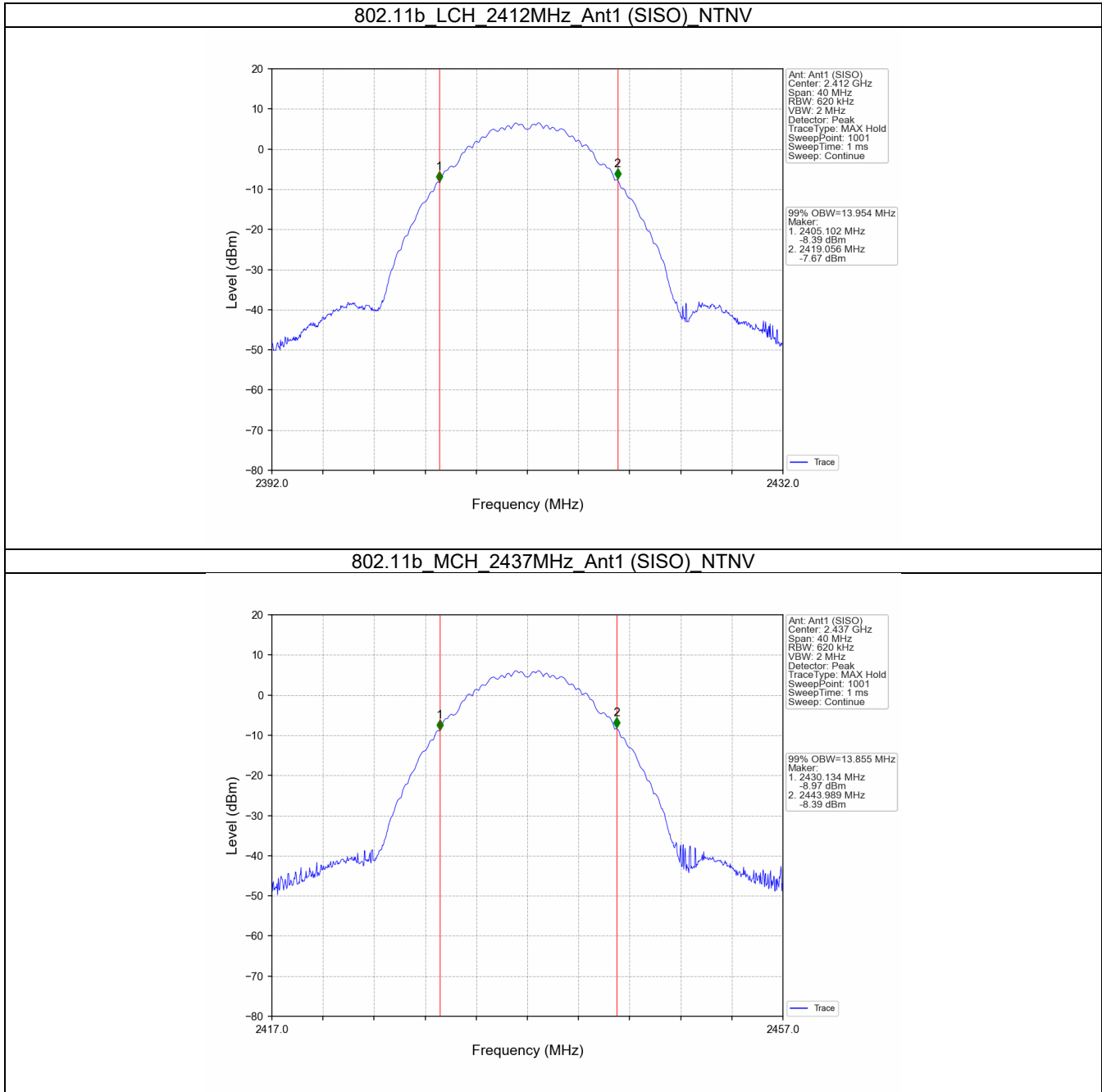


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2.1.2 Test Graph



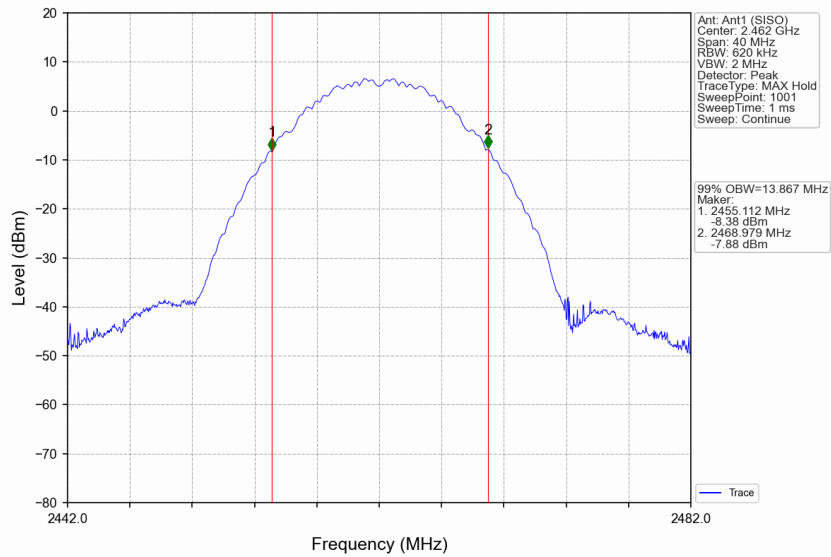
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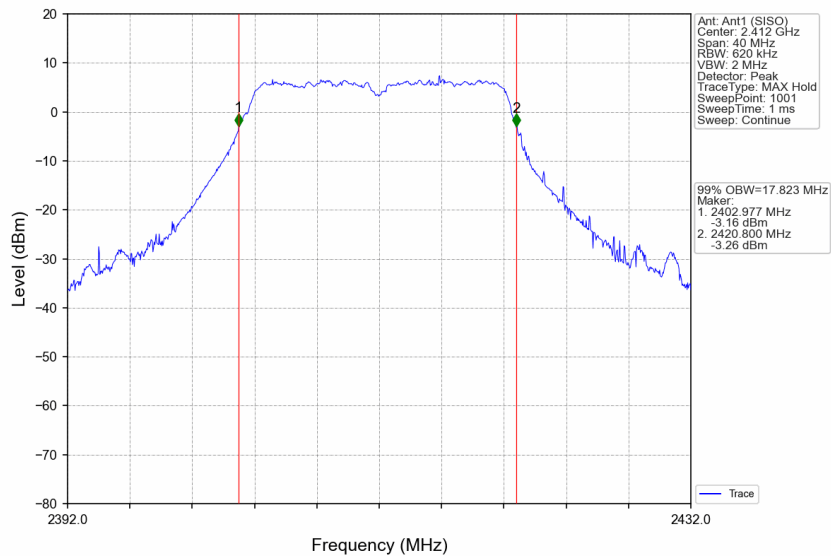
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### 802.11b HCH 2462MHz Ant1 (SISO) NTN



### 802.11g LCH 2412MHz Ant1 (SISO) NTN



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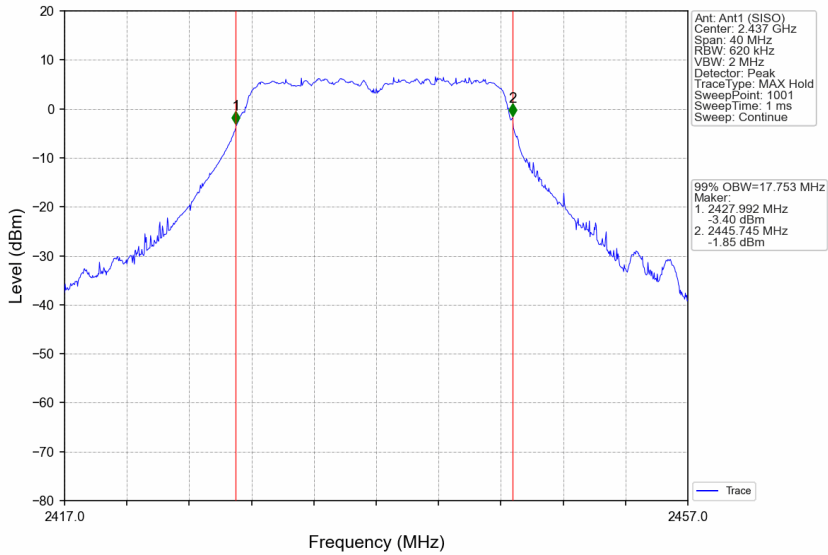
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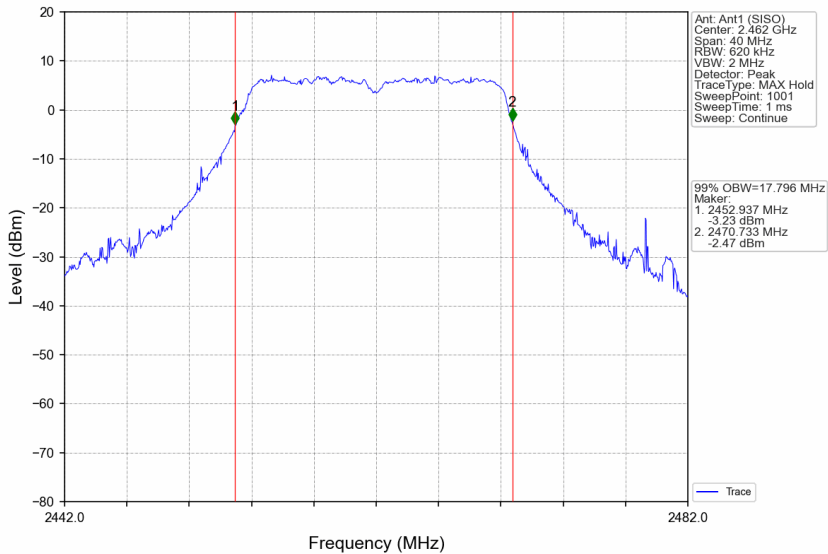
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802.11g MCH 2437MHz Ant1 (SISO) NTN



802.11g HCH 2462MHz Ant1 (SISO) NTN



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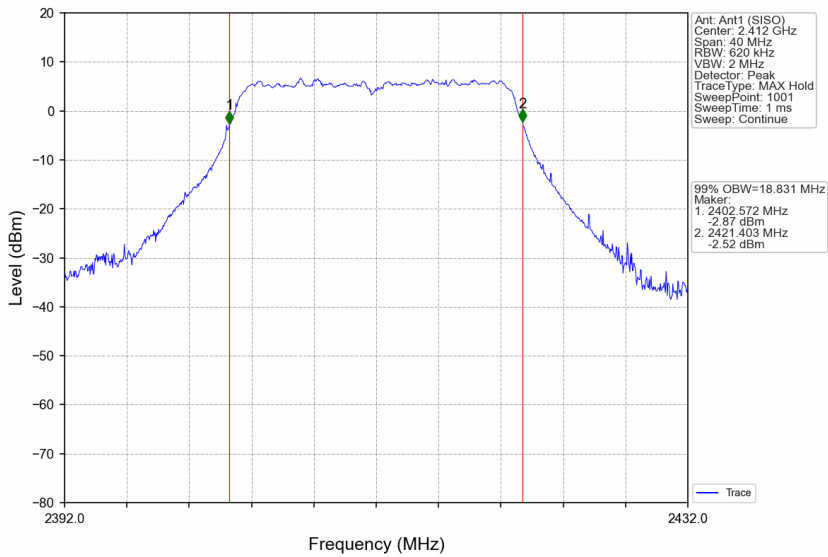
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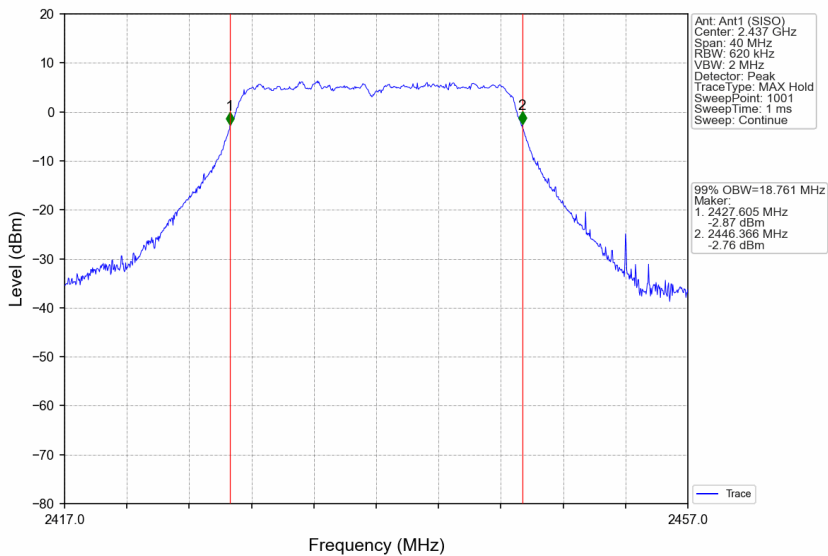
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### 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



### 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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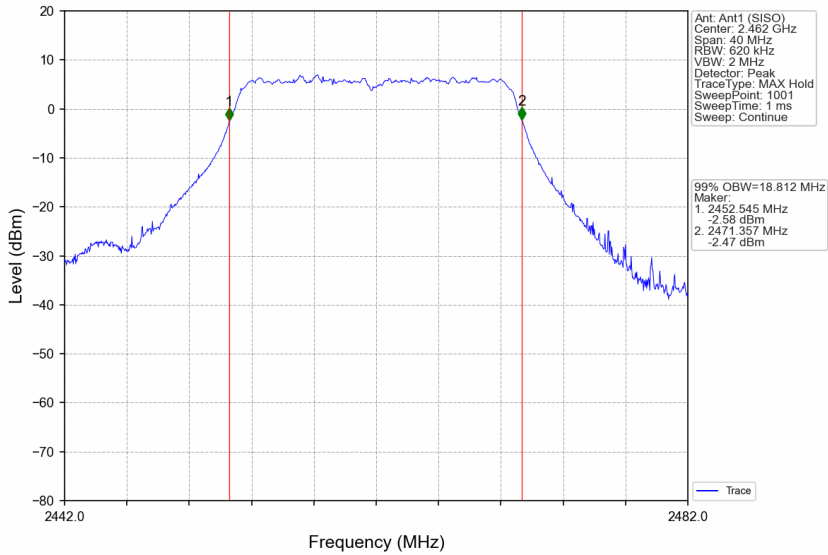
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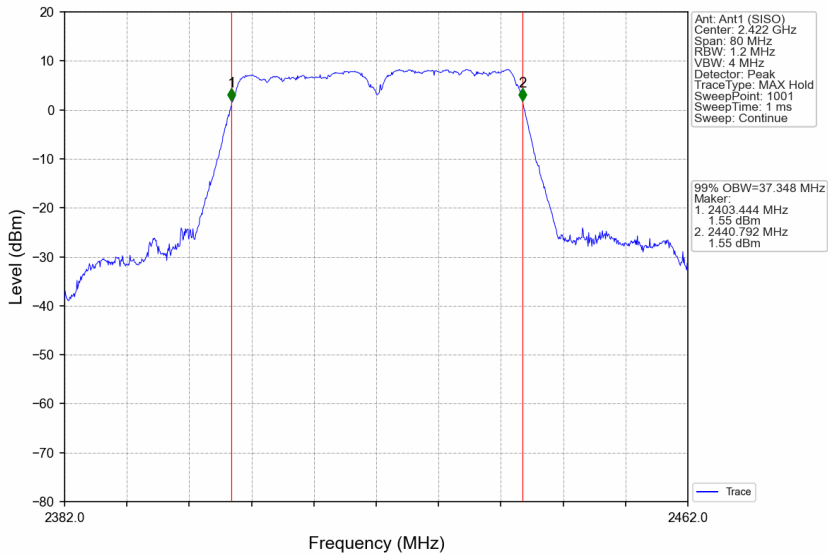
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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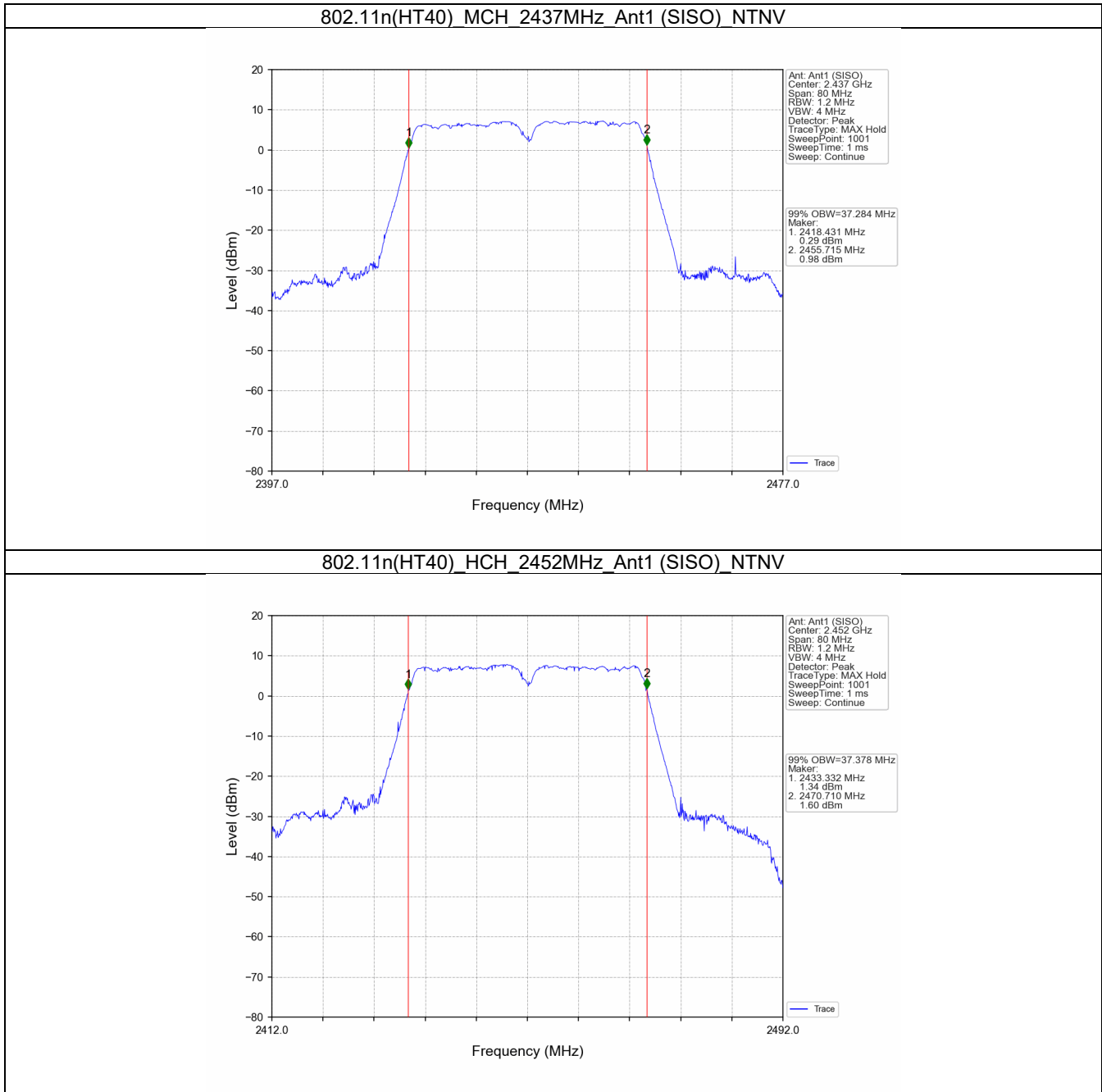
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.121	>=0.5	Pass
		2437	1	8.119	>=0.5	Pass
		2462	1	8.119	>=0.5	Pass
802.11g	SISO	2412	1	16.376	>=0.5	Pass
		2437	1	16.377	>=0.5	Pass
		2462	1	16.372	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.631	>=0.5	Pass
		2437	1	17.607	>=0.5	Pass
		2462	1	17.607	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.023	>=0.5	Pass
		2437	1	36.352	>=0.5	Pass
		2452	1	36.365	>=0.5	Pass

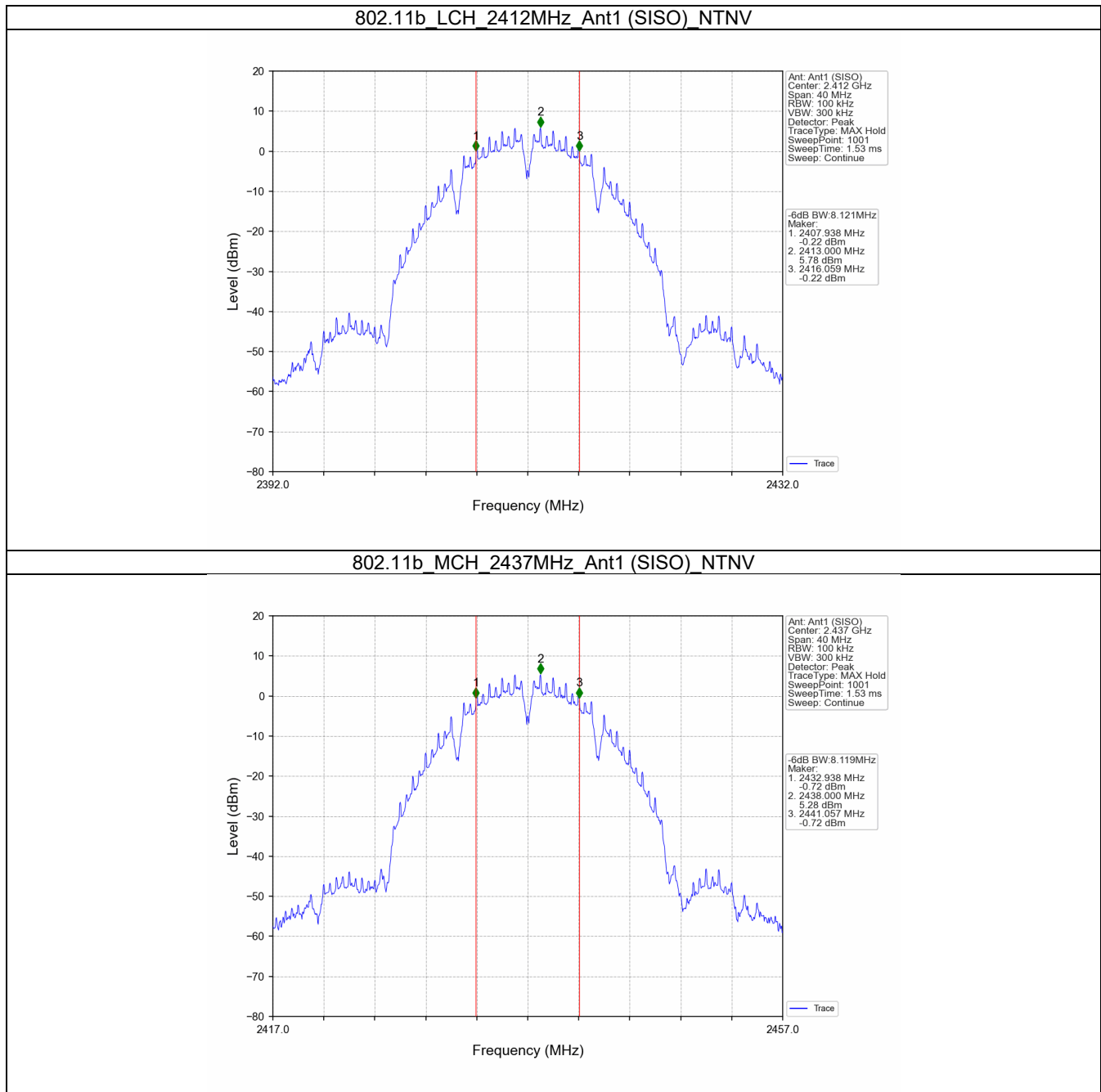


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2.2.2 Test Graph

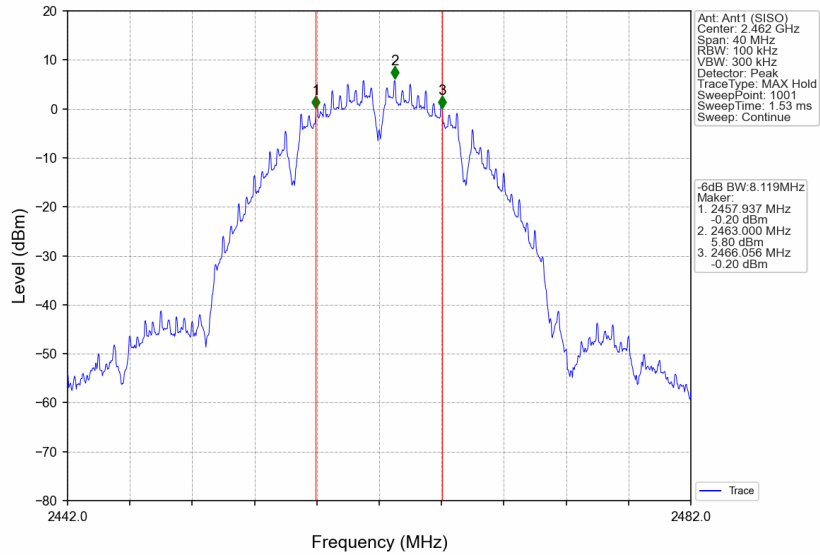


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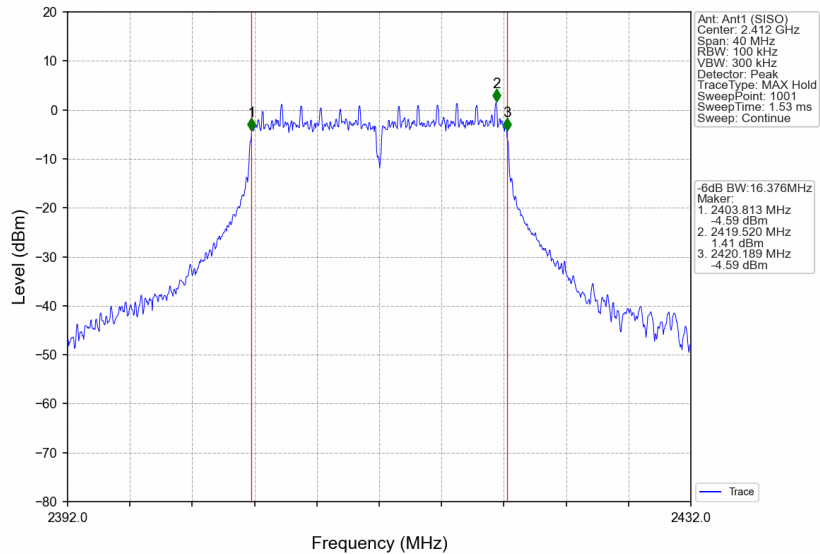
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### 802.11b HCH 2462MHz Ant1 (SISO) NTN



### 802.11g LCH 2412MHz Ant1 (SISO) NTN

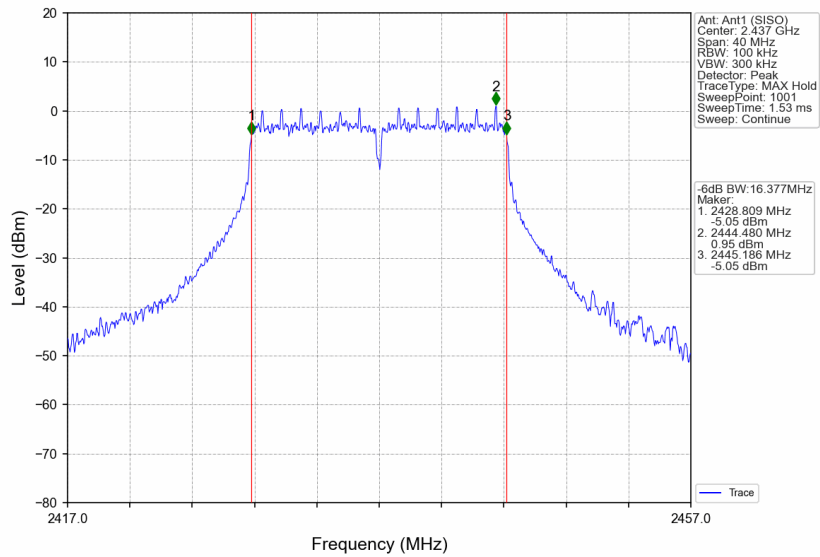


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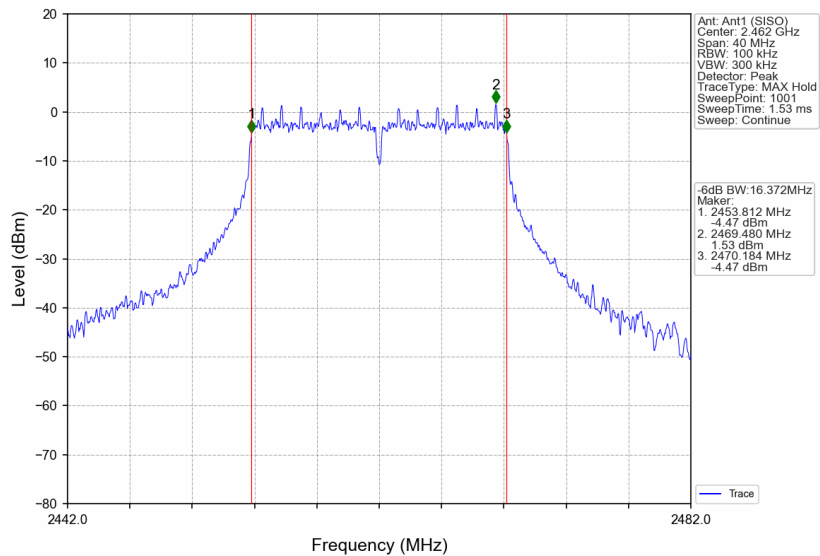
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### 802.11g MCH 2437MHz Ant1 (SISO) NTV



### 802.11g HCH 2462MHz Ant1 (SISO) NTV

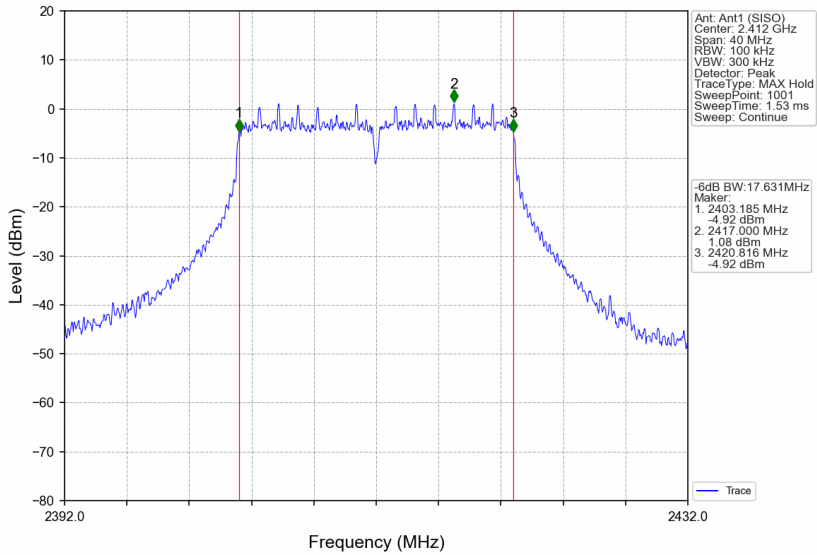


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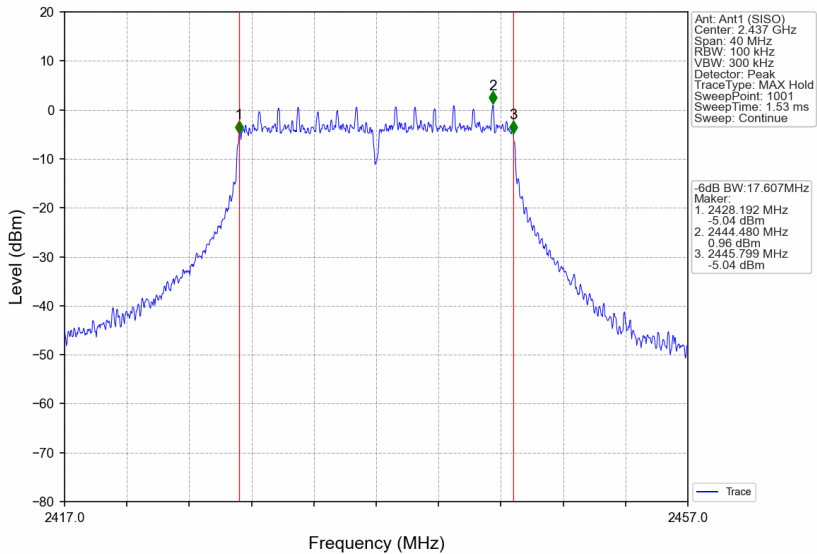
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### 802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



### 802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



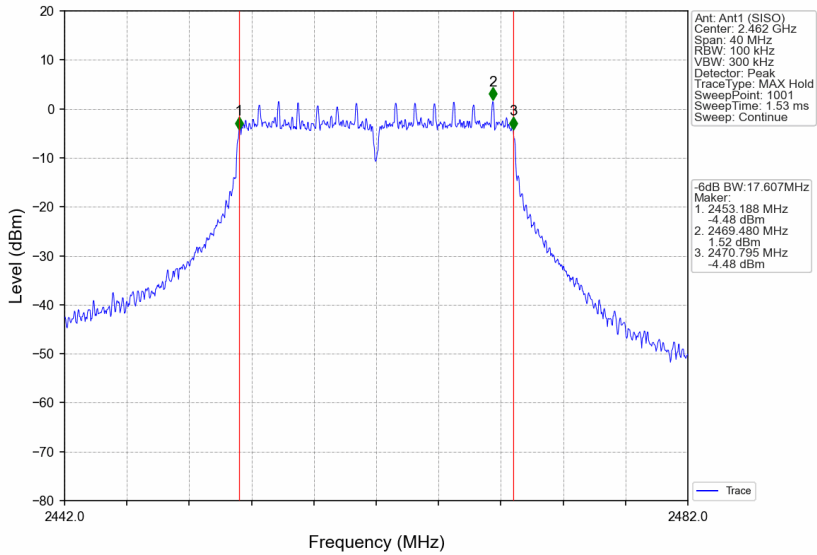
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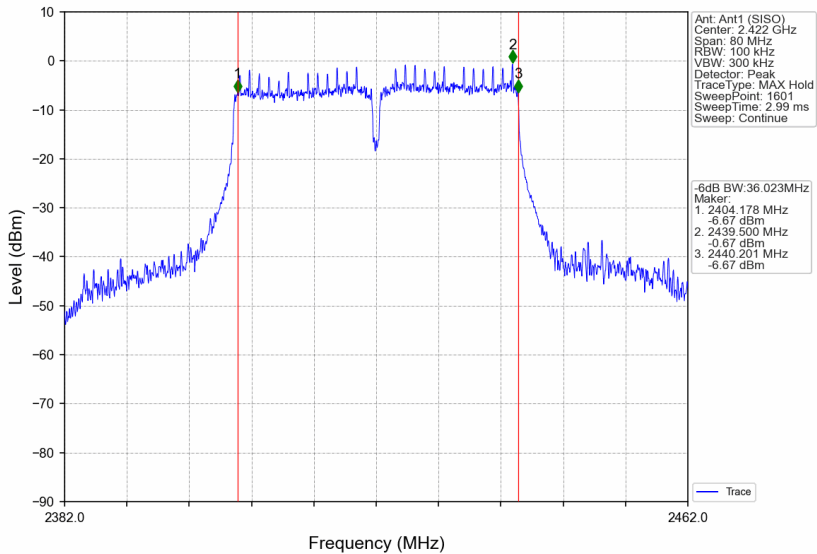
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTN



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTN



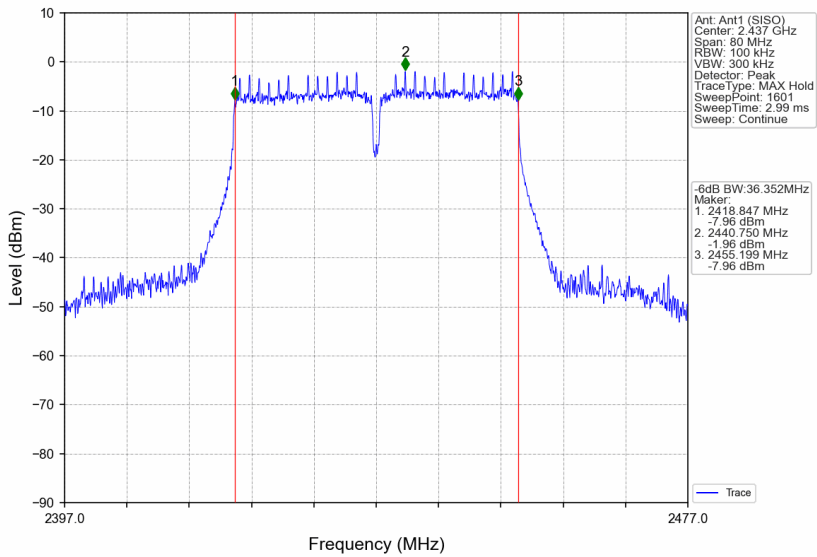
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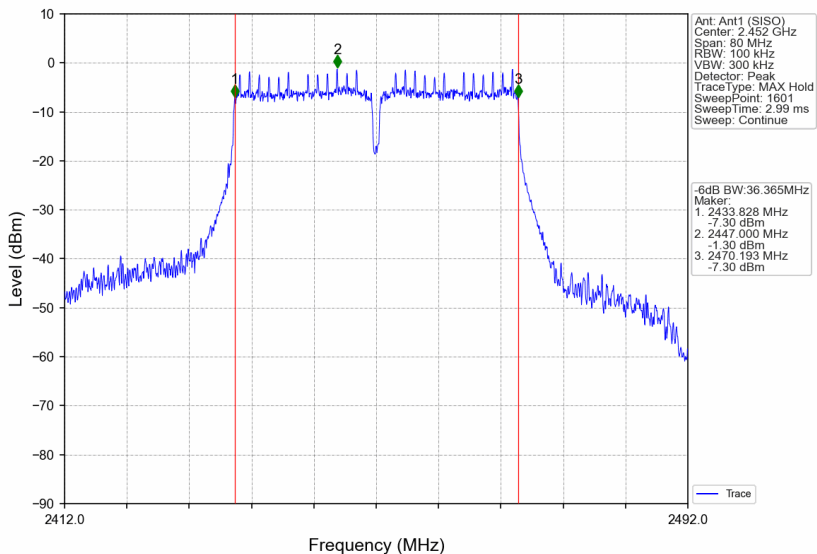
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

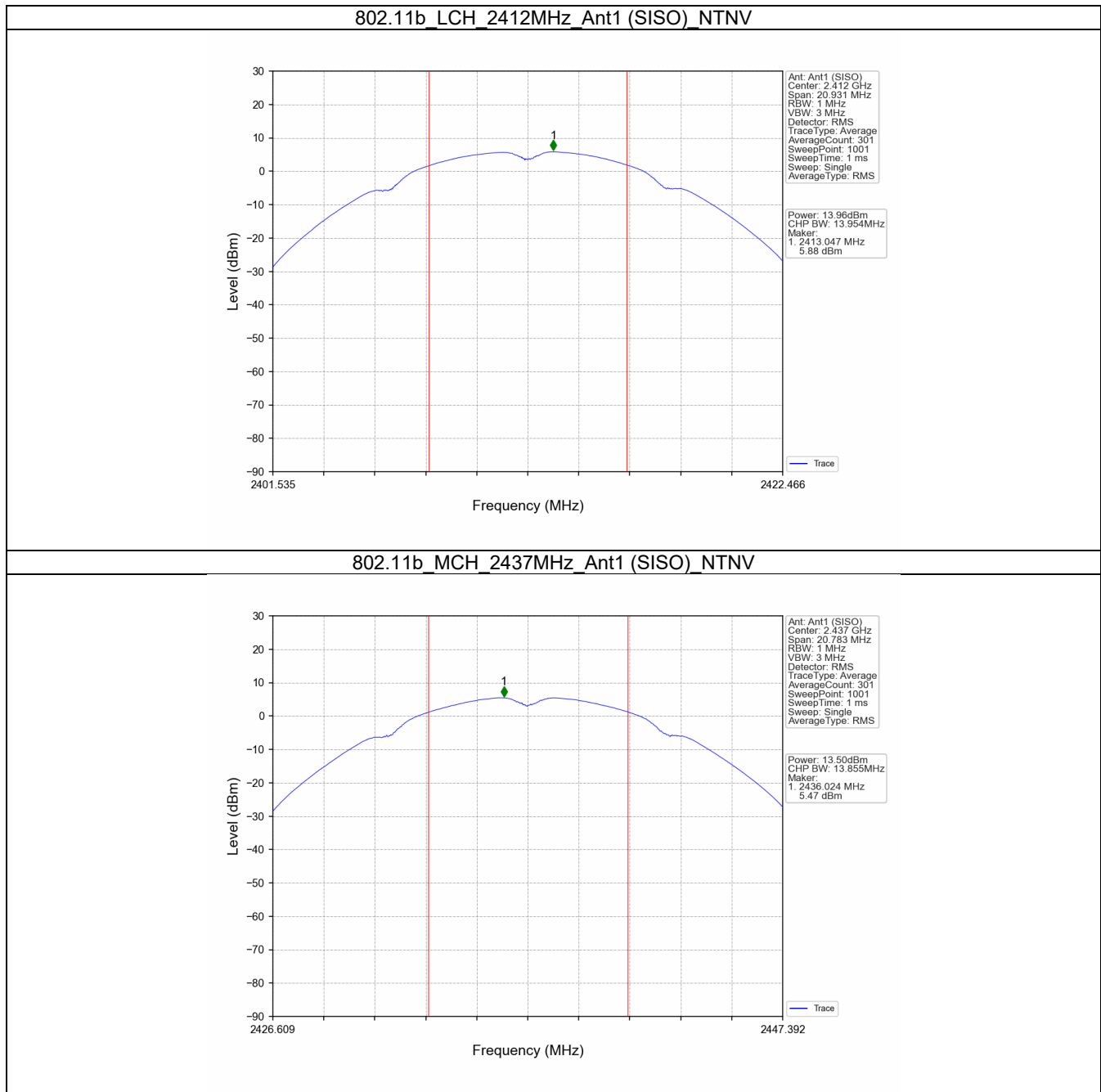
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.96	<=30	Pass
		2437	13.50	<=30	Pass
		2462	14.13	<=30	Pass
802.11g	SISO	2412	12.69	<=30	Pass
		2437	12.29	<=30	Pass
		2462	12.84	<=30	Pass
802.11n (HT20)	SISO	2412	12.63	<=30	Pass
		2437	12.23	<=30	Pass
		2462	12.77	<=30	Pass
802.11n (HT40)	SISO	2422	13.14	<=30	Pass
		2437	12.27	<=30	Pass
		2452	12.83	<=30	Pass

Note1: Antenna Gain: Ant1: 1.40dBi;



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3.1.2 Test Graph



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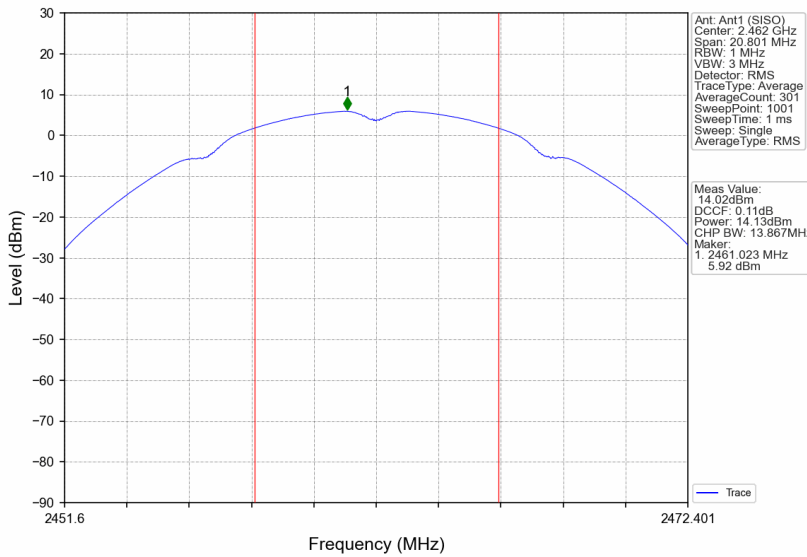
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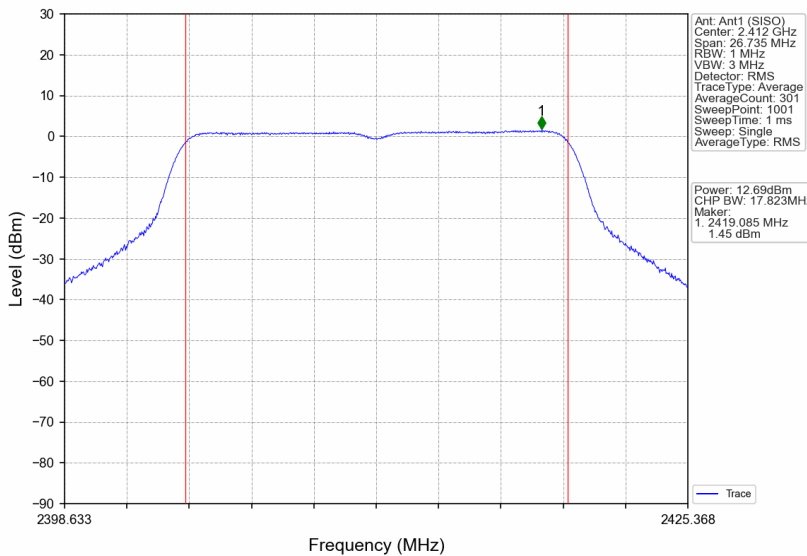
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### 802.11b HCH 2462MHz Ant1 (SISO) NTN



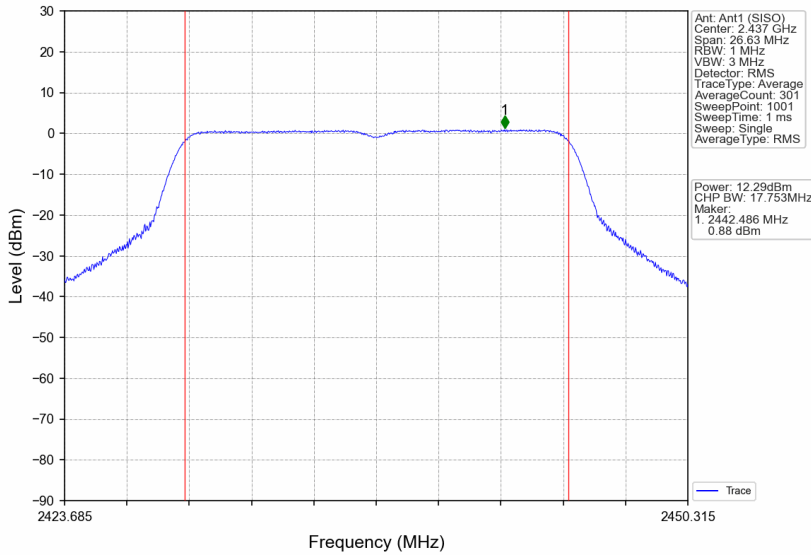
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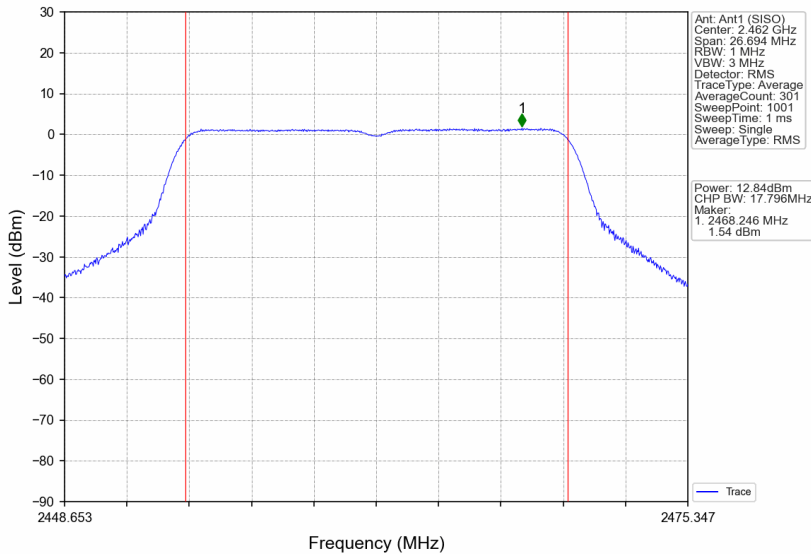
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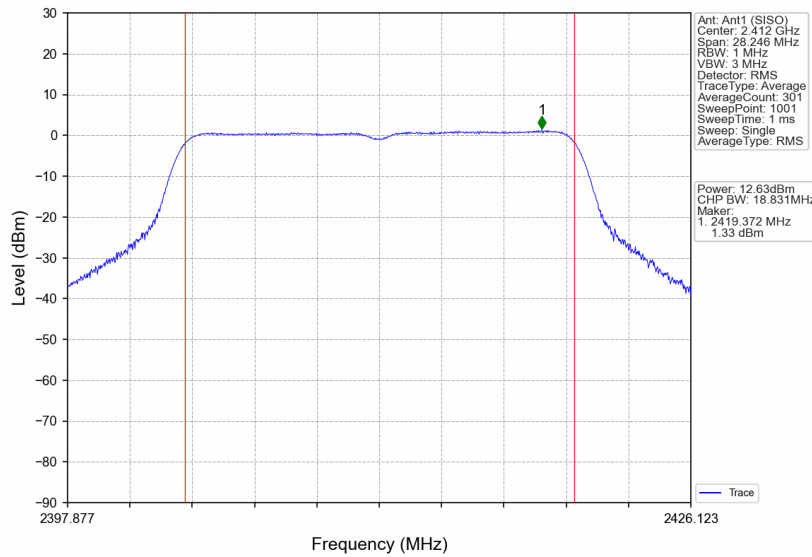
802.11g HCH 2462MHz Ant1 (SISO) NTN



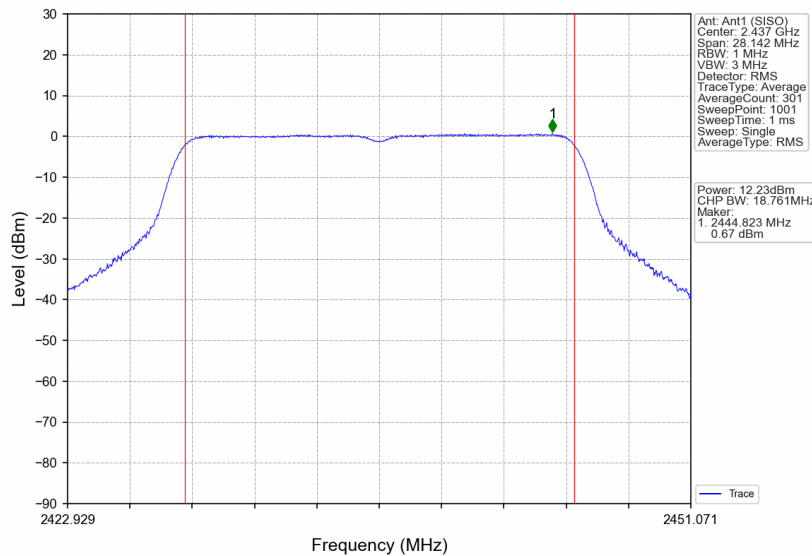
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV

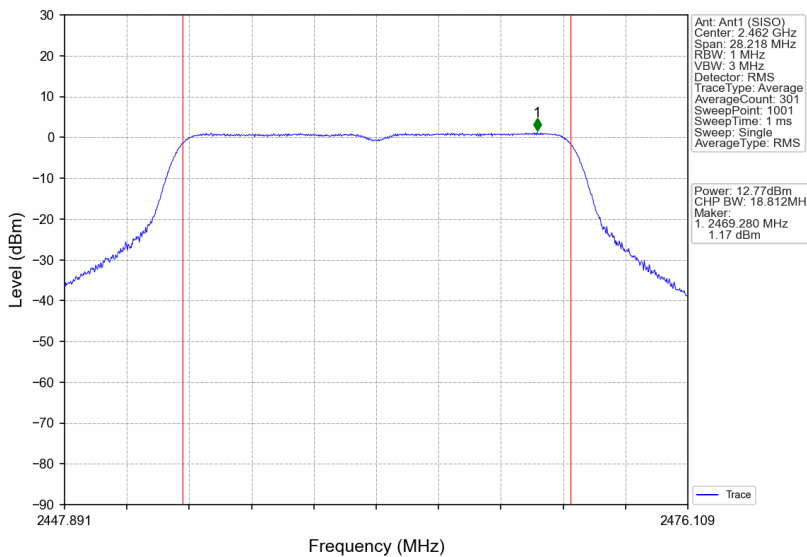


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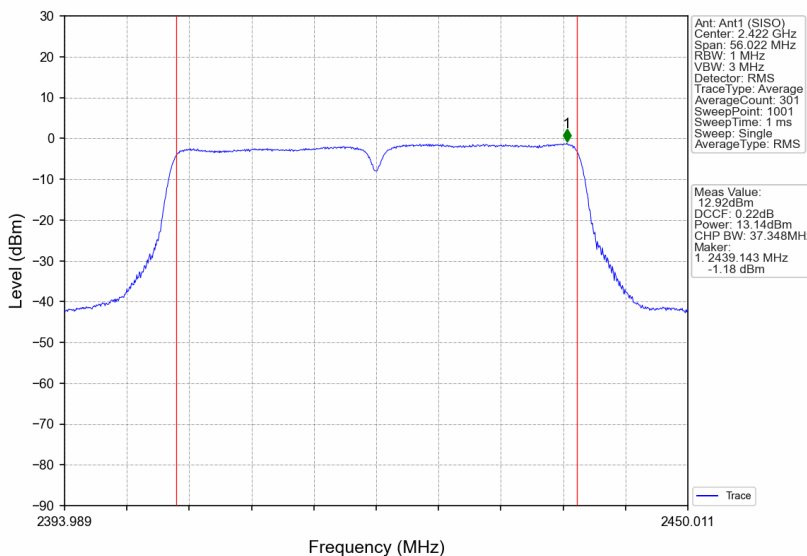
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



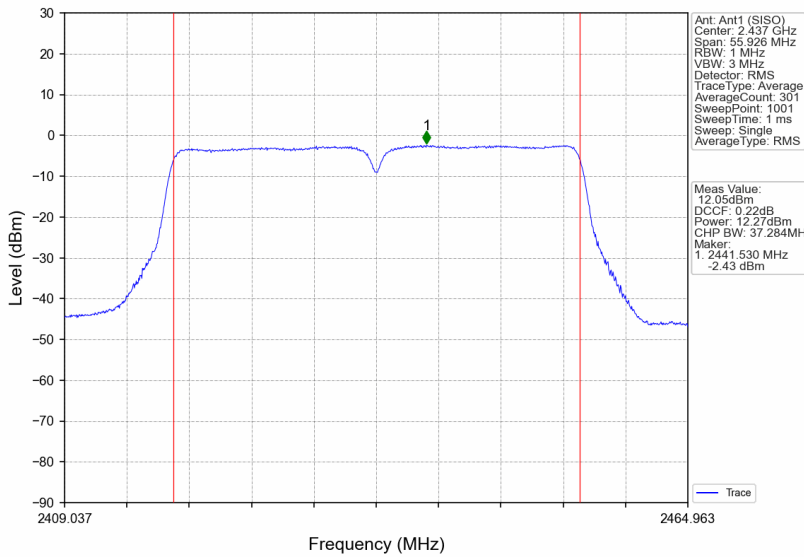
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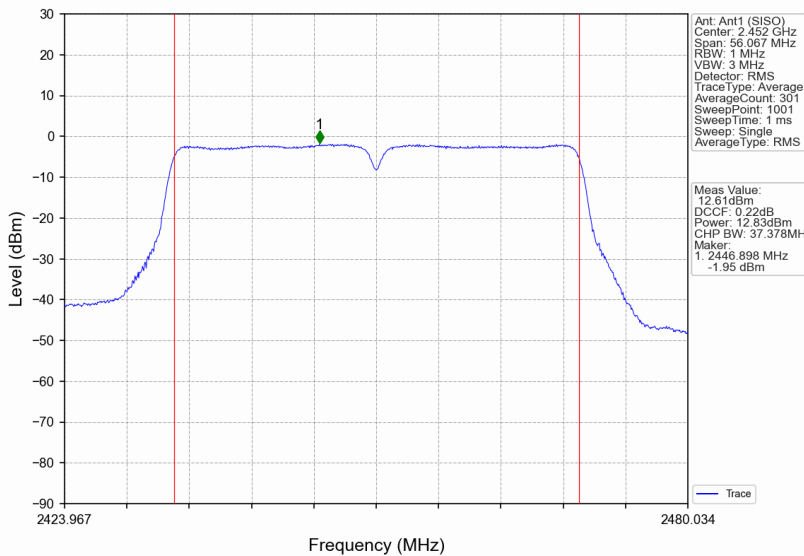
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

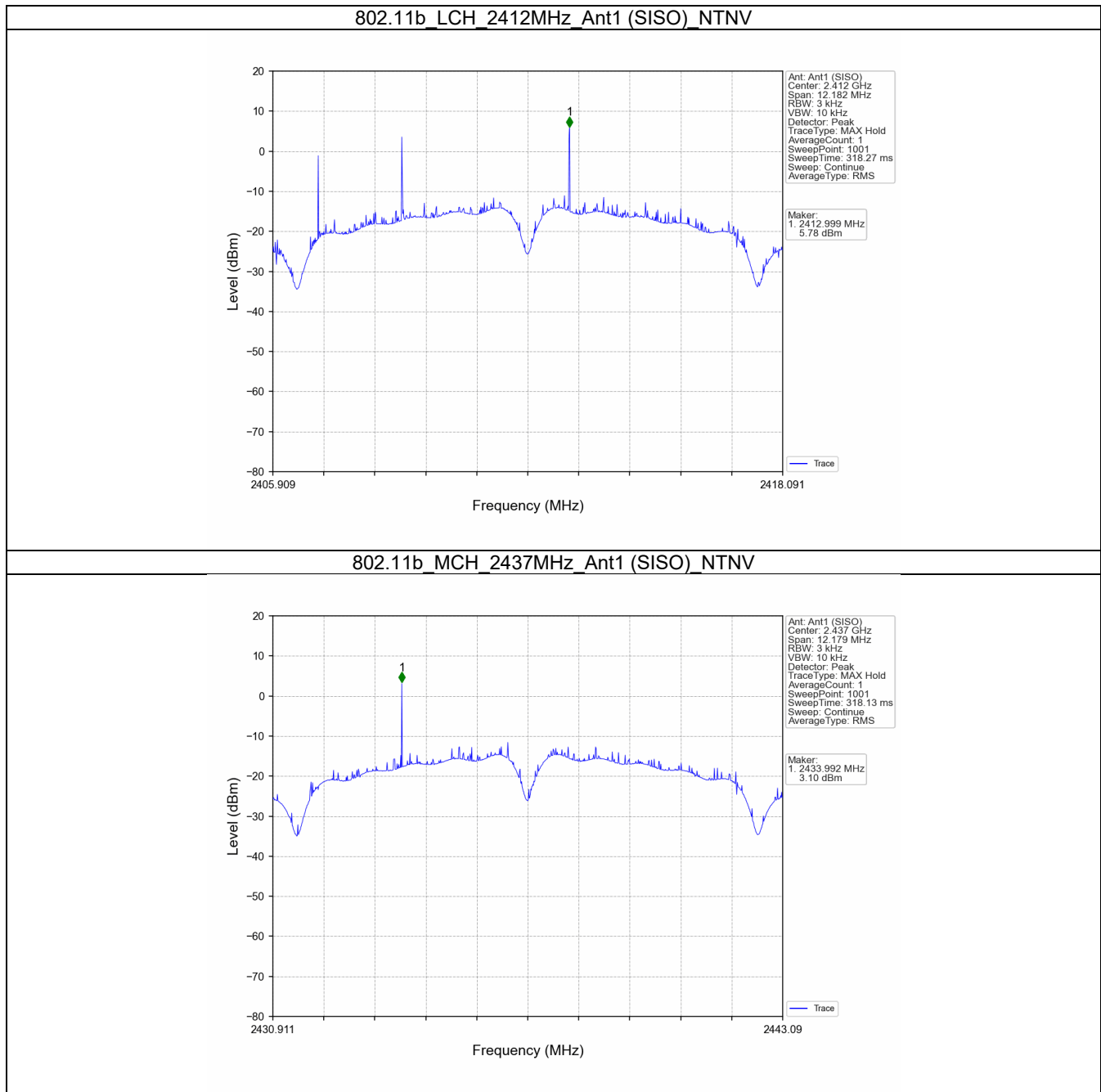
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	5.78	<=8	Pass
		2437	3.10	<=8	Pass
		2462	-10.83	<=8	Pass
802.11g	SISO	2412	-14.40	<=8	Pass
		2437	-14.79	<=8	Pass
		2462	-15.03	<=8	Pass
802.11n (HT20)	SISO	2412	-15.39	<=8	Pass
		2437	-15.17	<=8	Pass
		2462	-14.31	<=8	Pass
802.11n (HT40)	SISO	2422	-15.07	<=8	Pass
		2437	-17.68	<=8	Pass
		2452	-16.68	<=8	Pass

Note1: Antenna Gain: Ant1: 1.40dBi;



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4.1.2 Test Graph



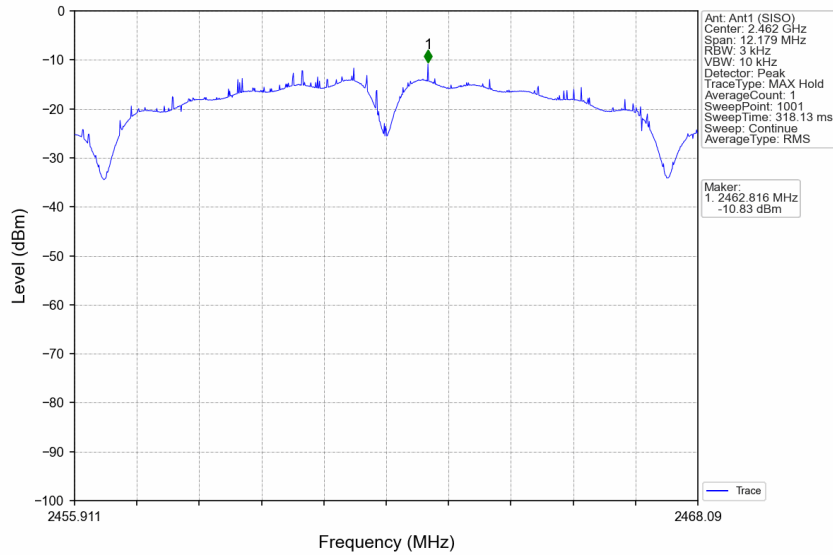
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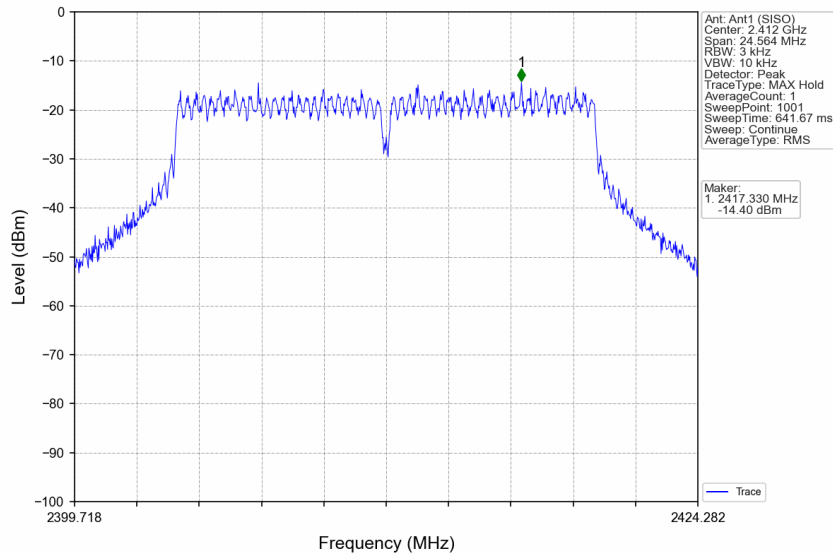
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### 802.11b HCH 2462MHz Ant1 (SISO) NTN



### 802.11g LCH 2412MHz Ant1 (SISO) NTN



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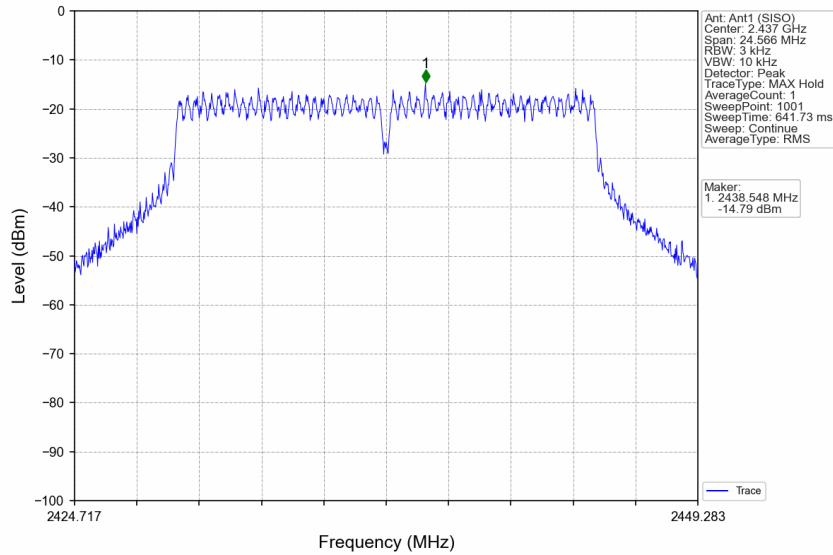
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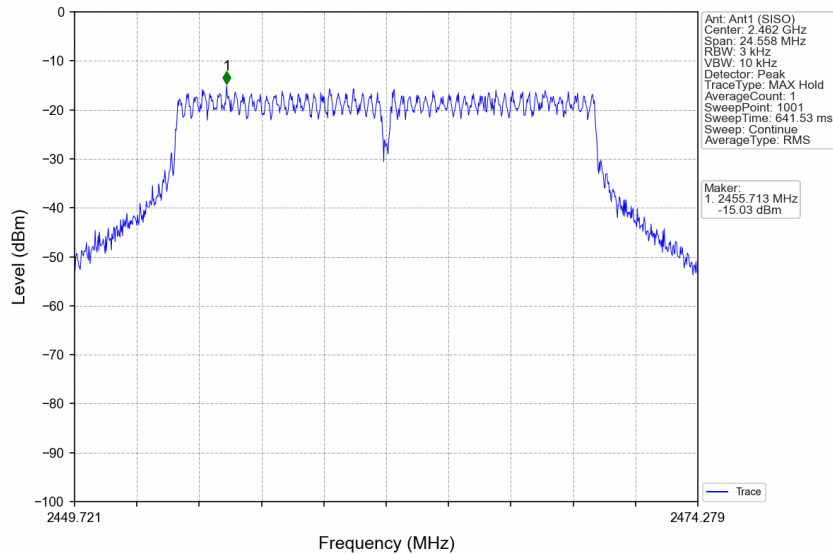
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802.11g MCH 2437MHz Ant1 (SISO) NTN



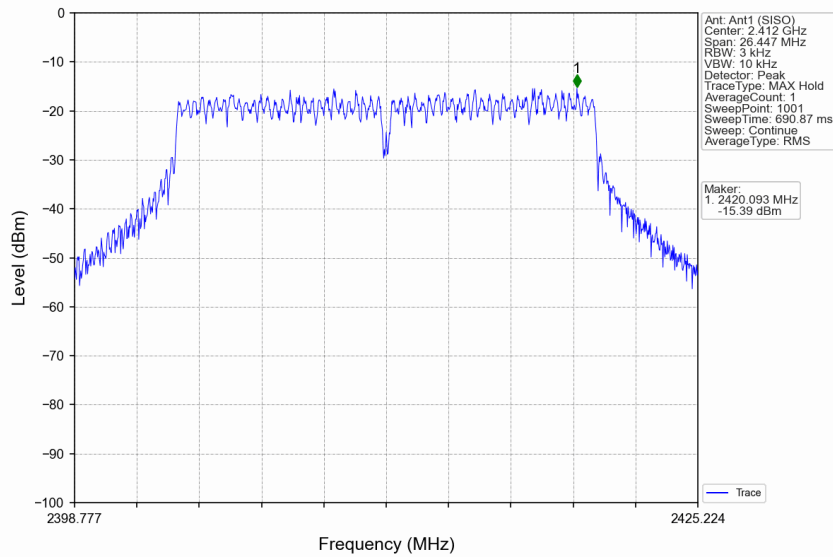
802.11g HCH 2462MHz Ant1 (SISO) NTN



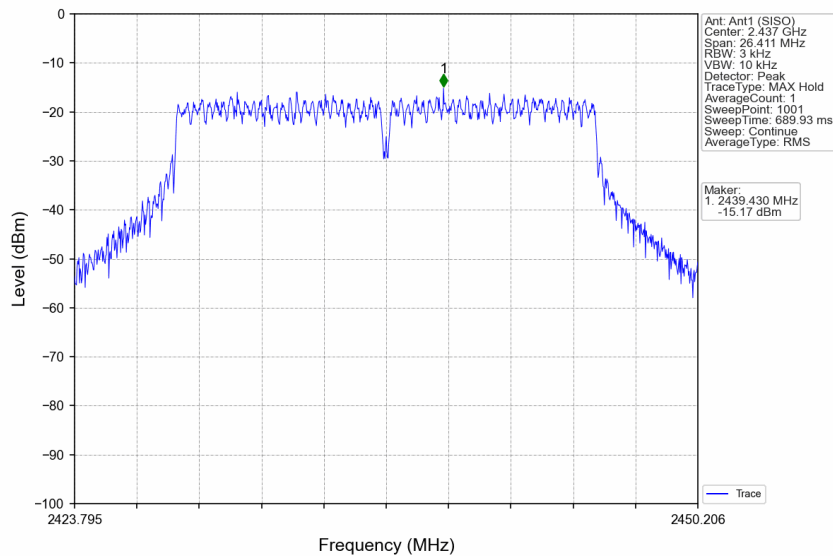
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV

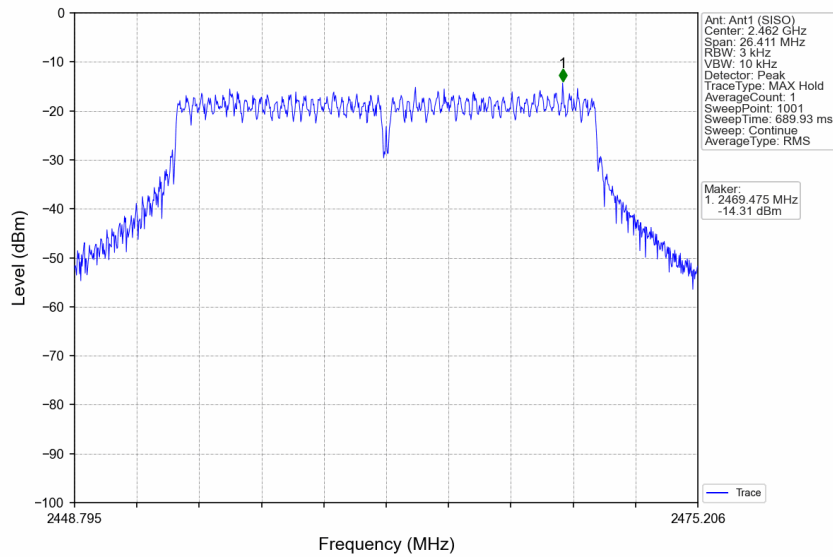


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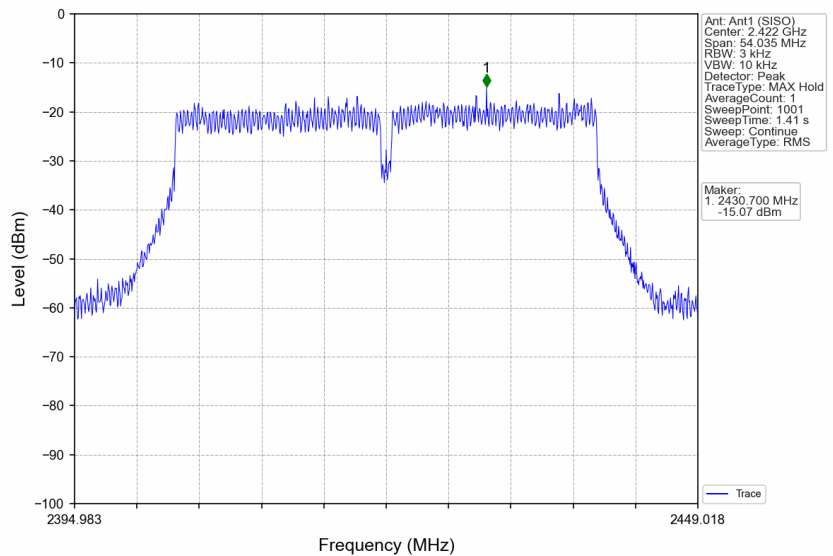
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

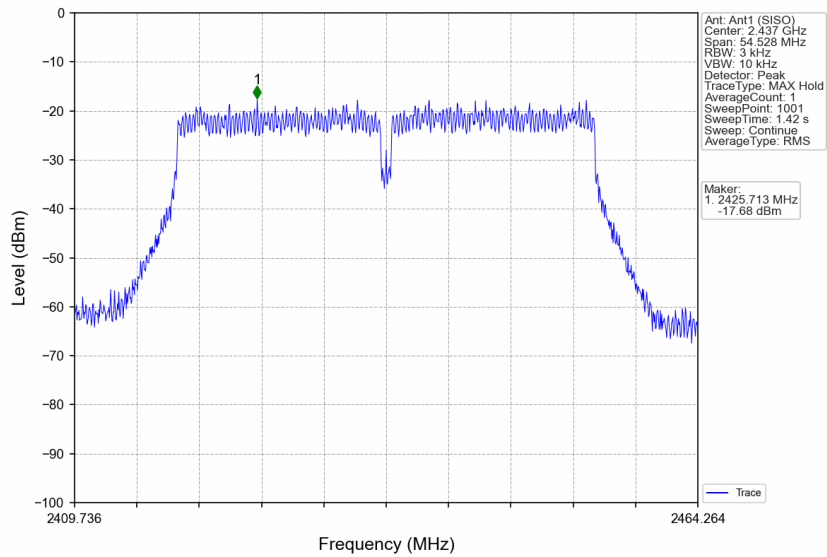


802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

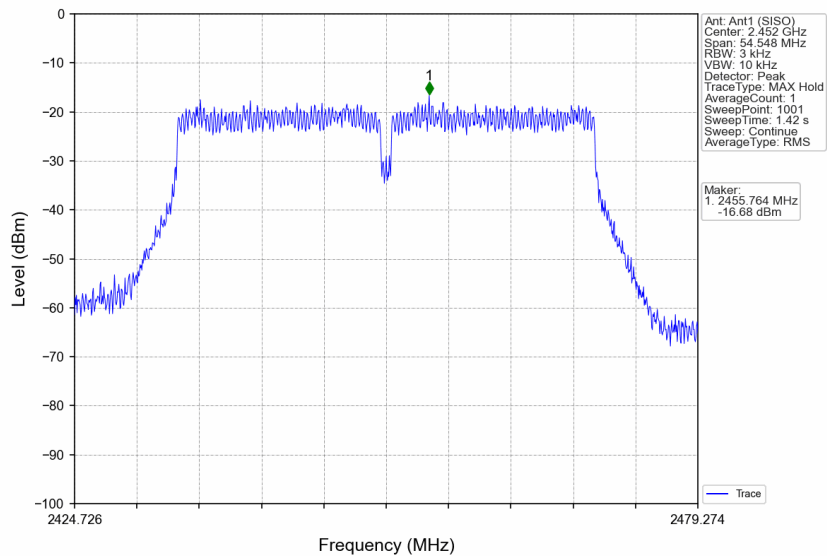


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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTN



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTN



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

### 5.1 Ref

#### 5.1.1 Test Result

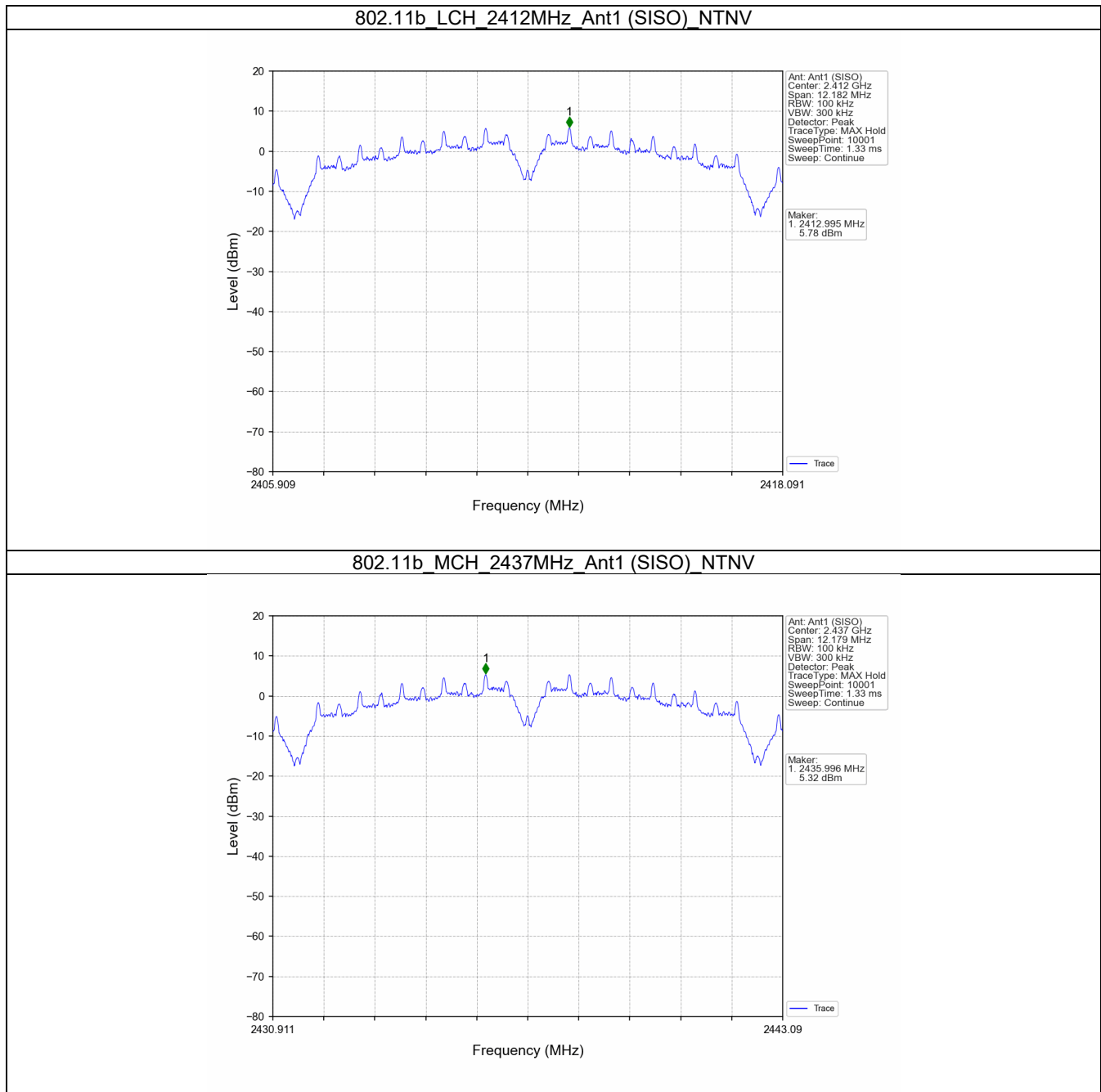
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.78
		2437	1	5.32
		2462	1	5.84
802.11g	SISO	2412	1	1.22
		2437	1	0.47
		2462	1	1.49
802.11n (HT20)	SISO	2412	1	1.06
		2437	1	0.73
		2462	1	1.33
802.11n (HT40)	SISO	2422	1	-0.68
		2437	1	-1.94
		2452	1	-1.30

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



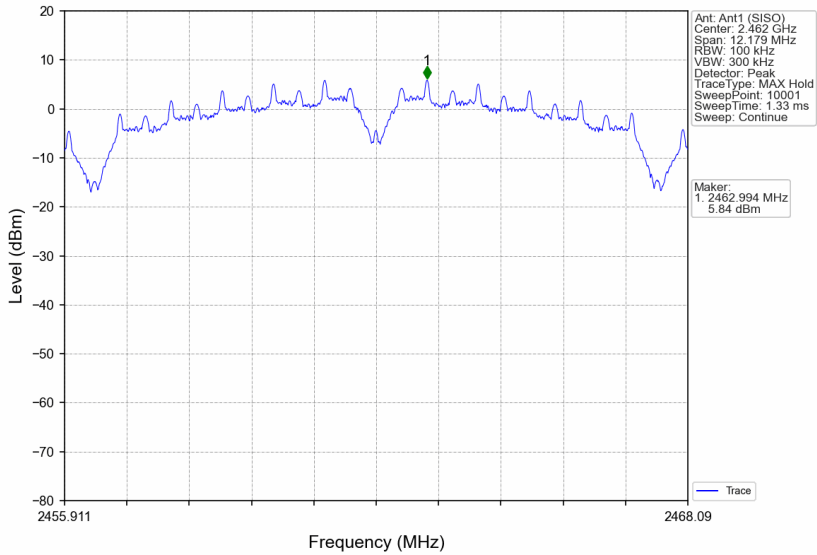
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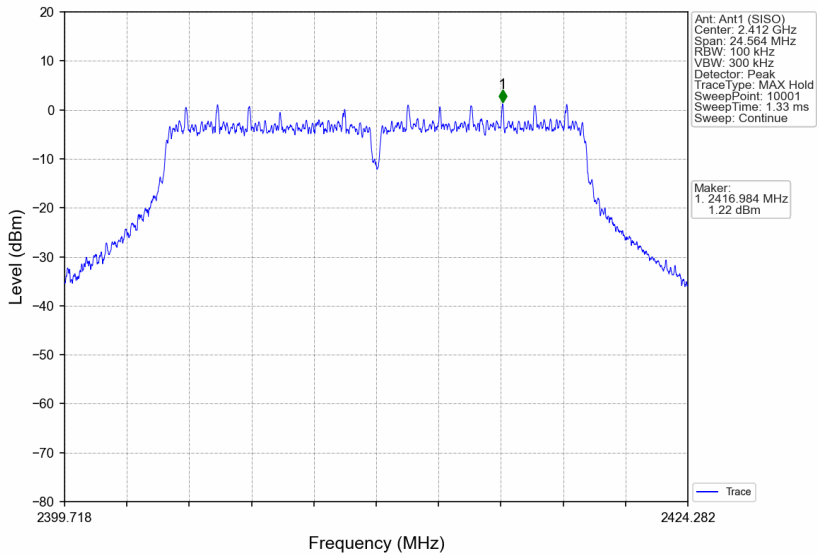
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802.11b HCH 2462MHz Ant1 (SISO) NTN



802.11g LCH 2412MHz Ant1 (SISO) NTN

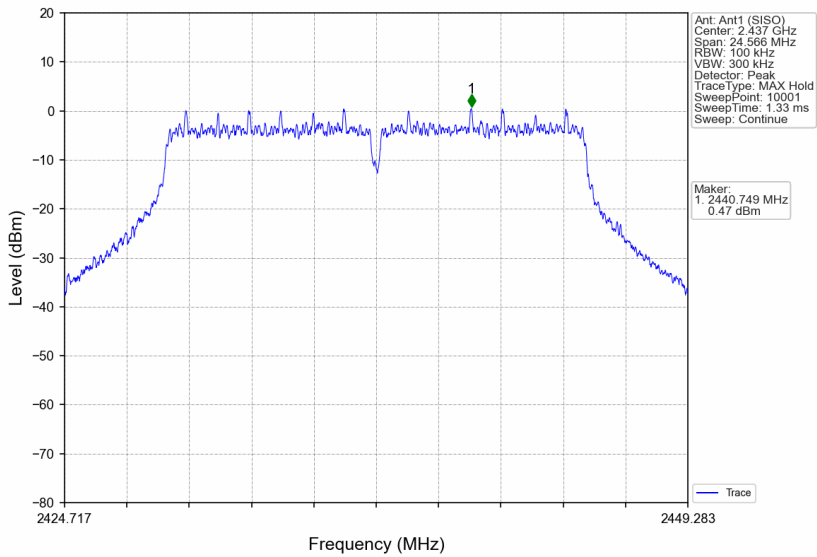


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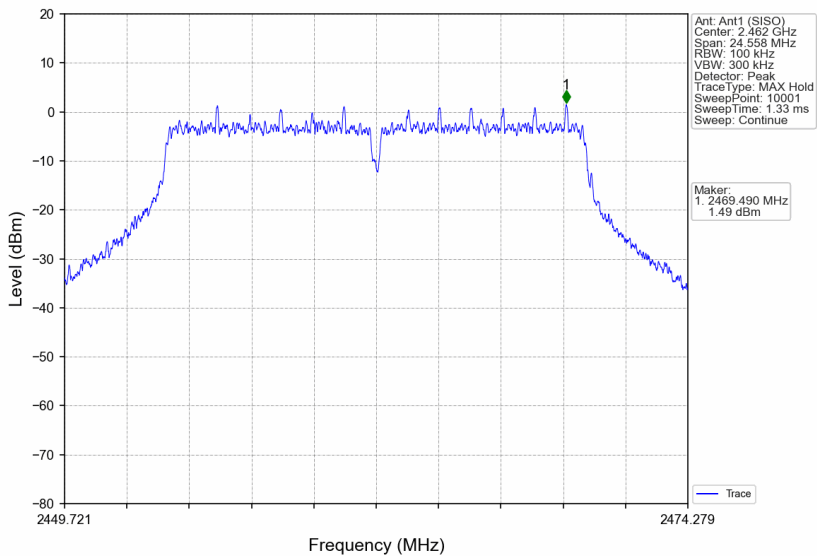
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802.11g MCH 2437MHz Ant1 (SISO) NTV



802.11g HCH 2462MHz Ant1 (SISO) NTV



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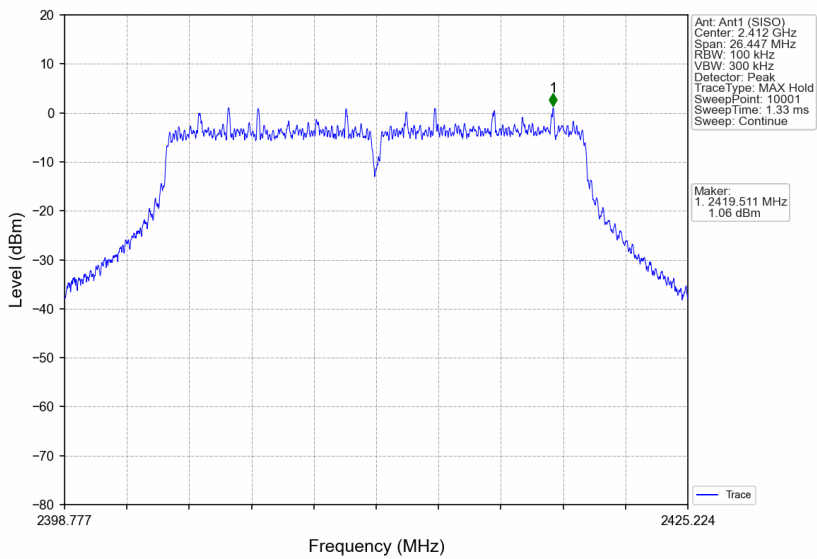
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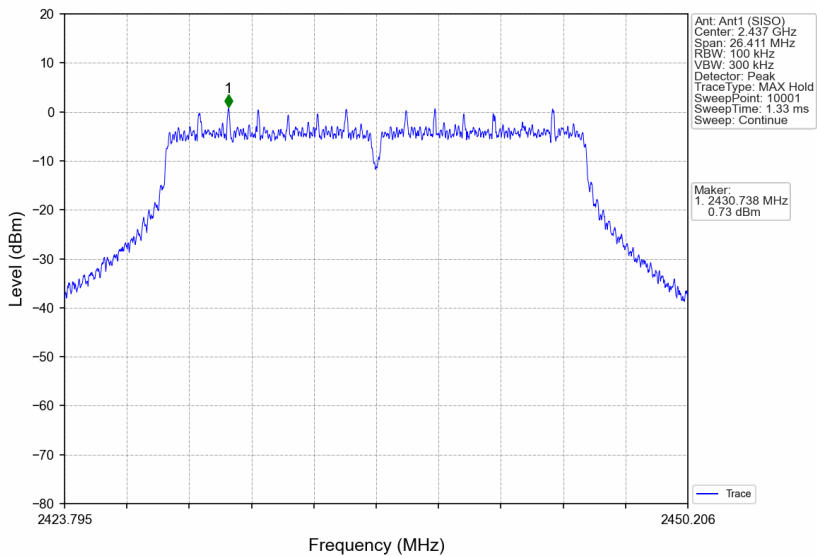
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTV



802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTV



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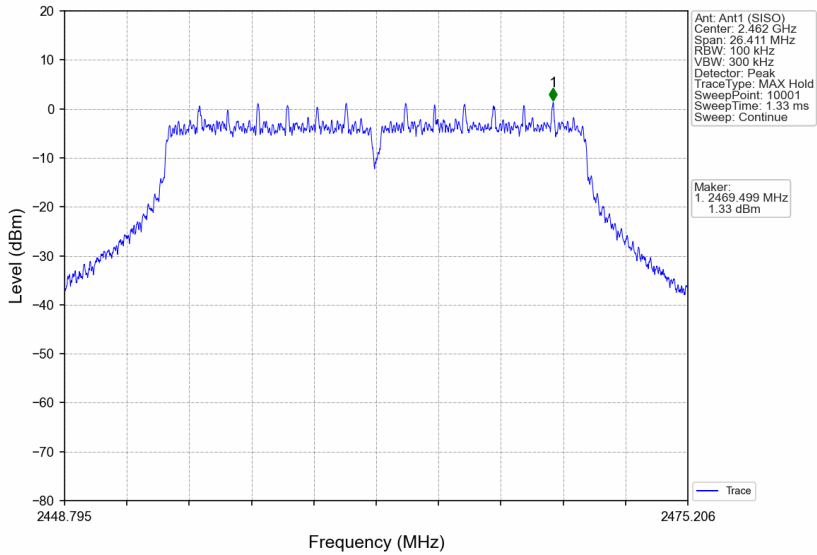
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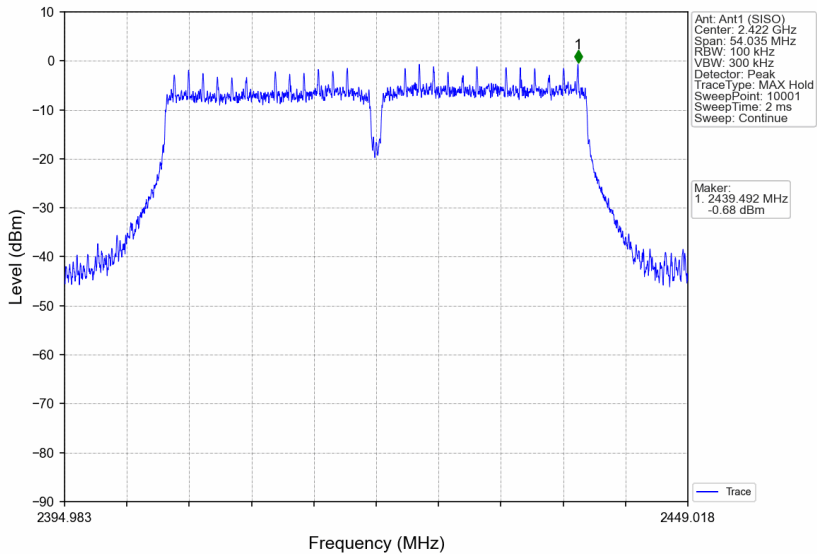
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



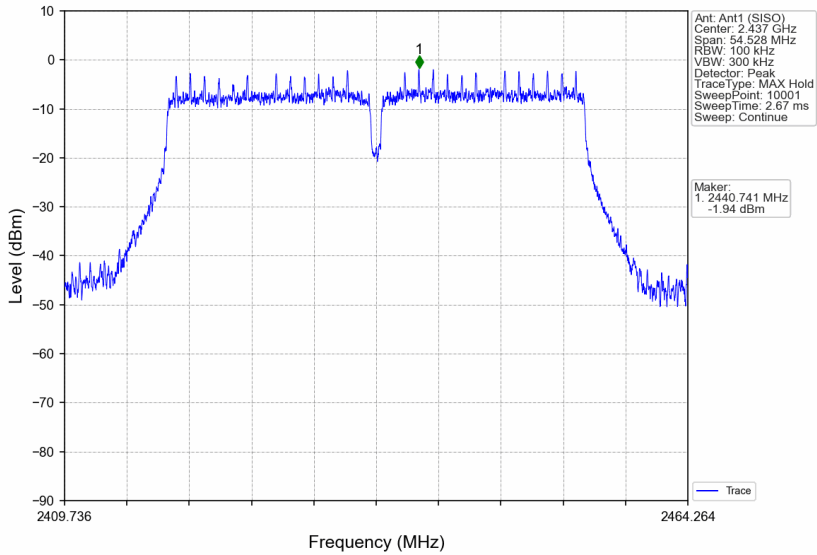
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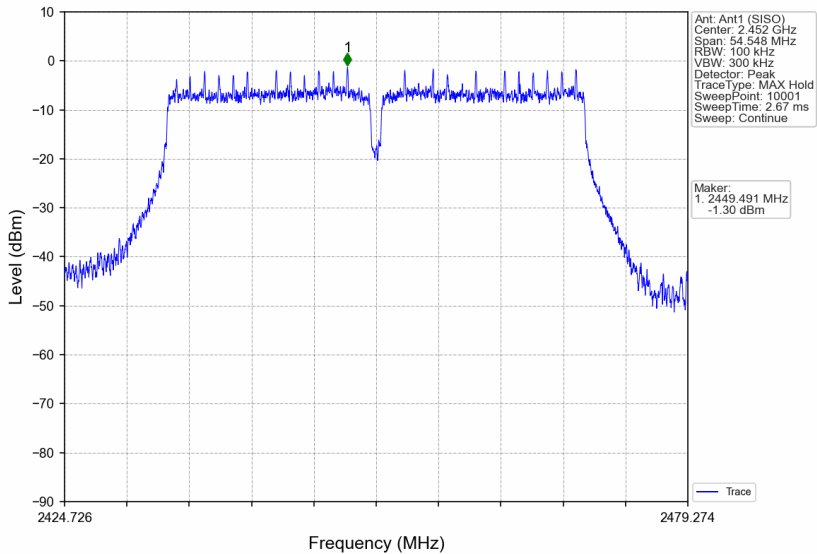
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802.11n(HT40) MCH\_2437MHz\_Ant1 (SISO) NTV



802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO) NTV



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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	5.84	-24.16	Pass
		2437	1	5.84	-24.16	Pass
		2462	1	5.84	-24.16	Pass
802.11g	SISO	2412	1	1.49	-28.51	Pass
		2437	1	1.49	-28.51	Pass
		2462	1	1.49	-28.51	Pass
802.11n (HT20)	SISO	2412	1	1.33	-28.67	Pass
		2437	1	1.33	-28.67	Pass
		2462	1	1.33	-28.67	Pass
802.11n (HT40)	SISO	2422	1	-0.68	-30.68	Pass
		2437	1	-0.68	-30.68	Pass
		2452	1	-0.68	-30.68	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.

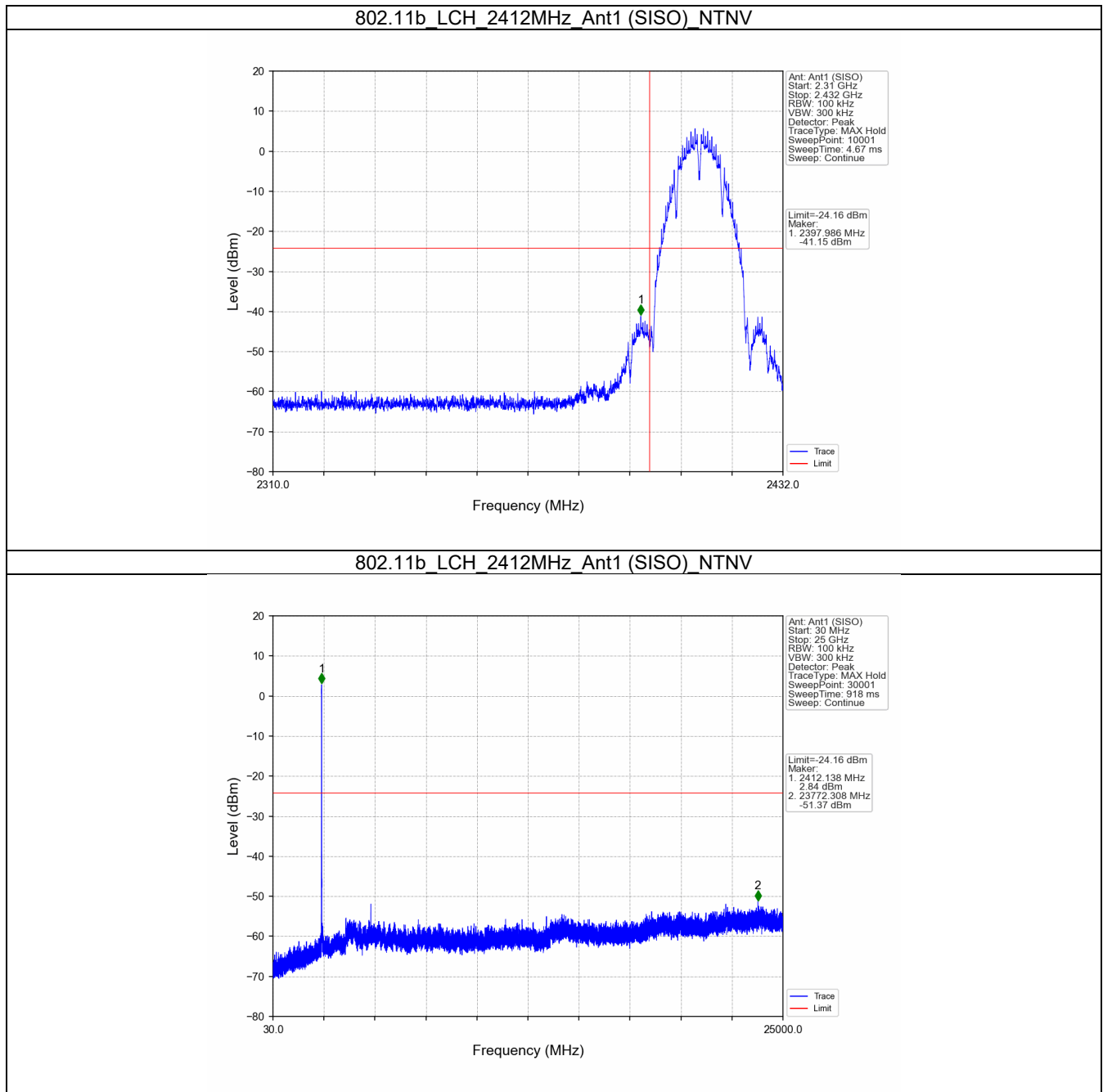


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5.2.2 Test Graph



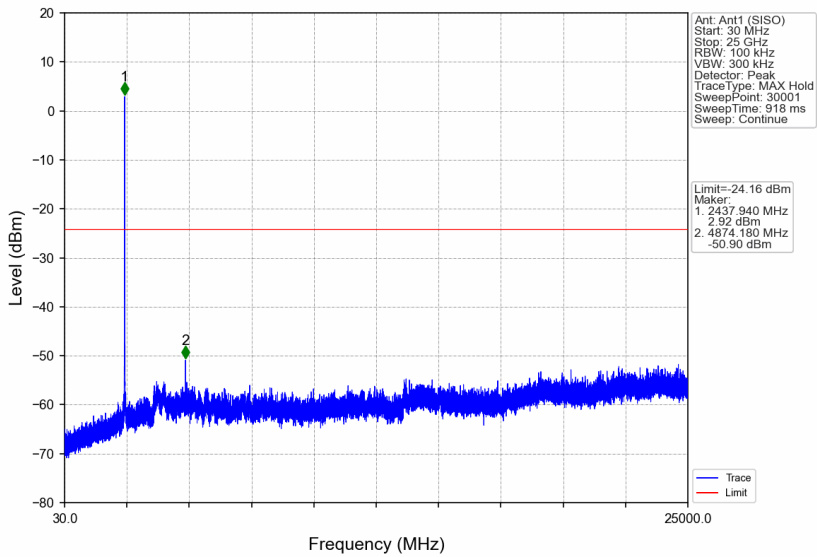
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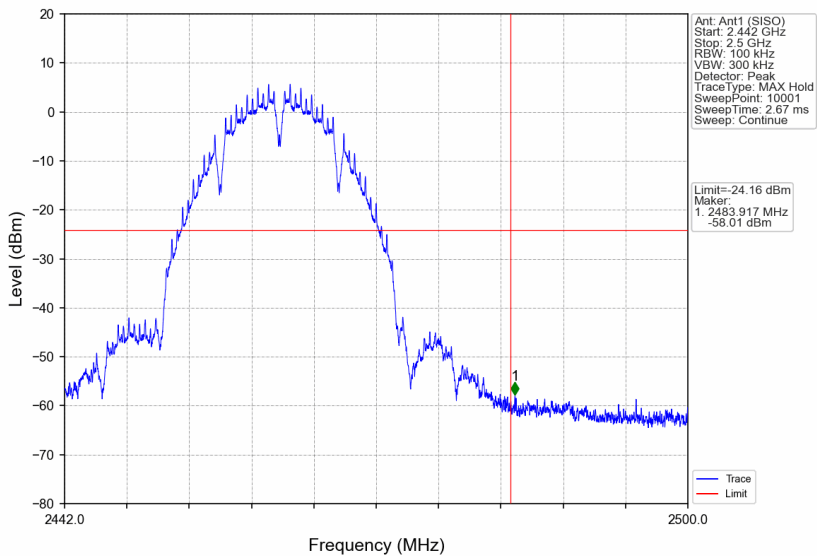
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802.11b MCH 2437MHz Ant1 (SISO) NTN



802.11b\_HCH 2462MHz\_Ant1 (SISO)\_NTNV



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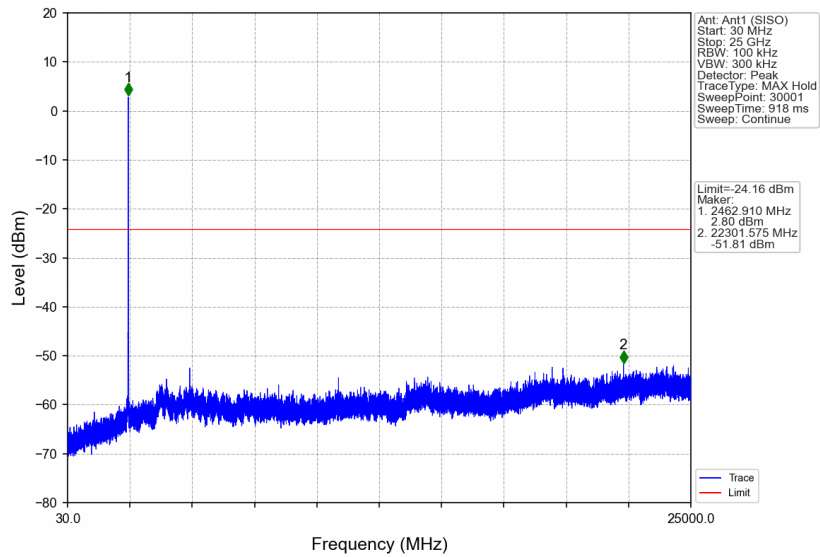
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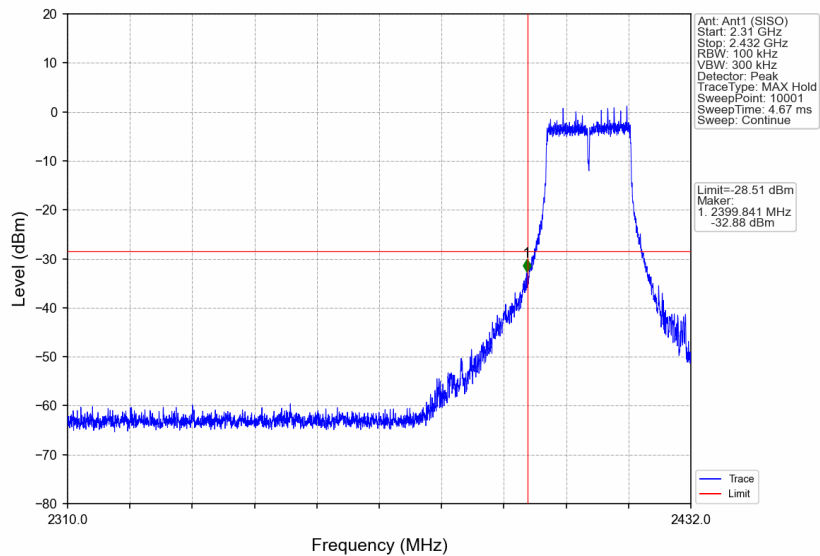
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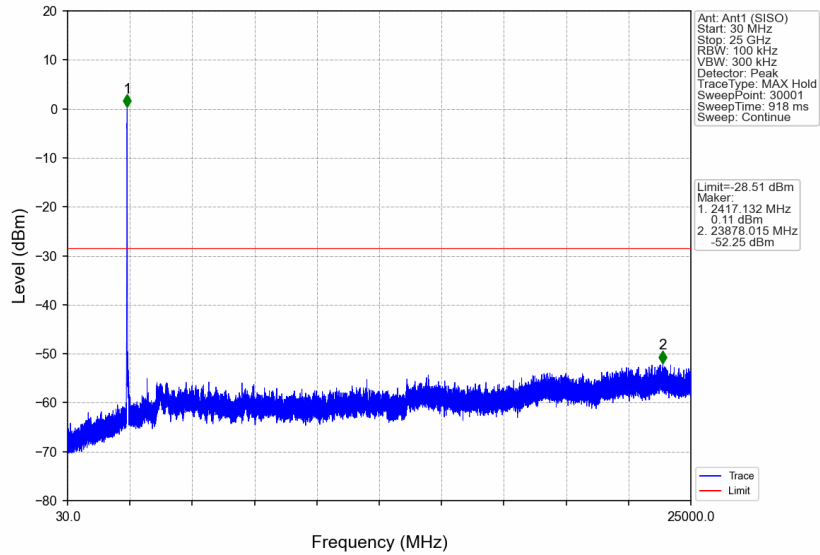
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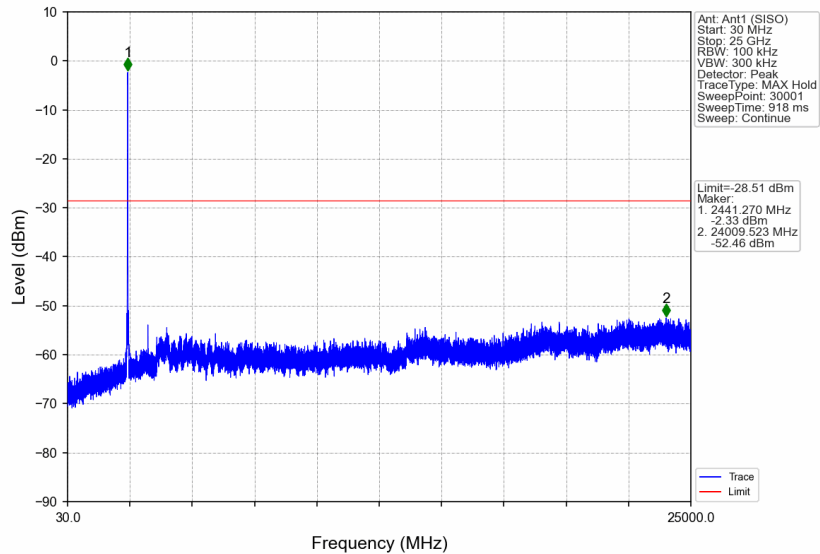
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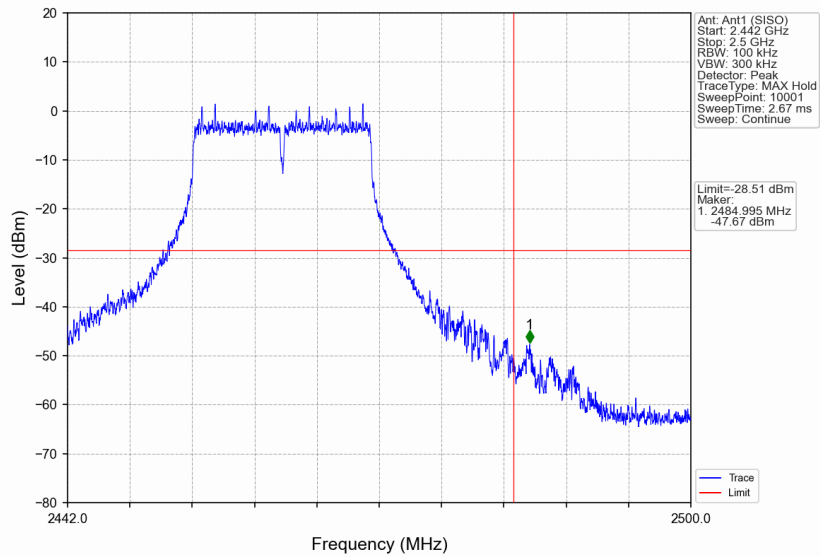
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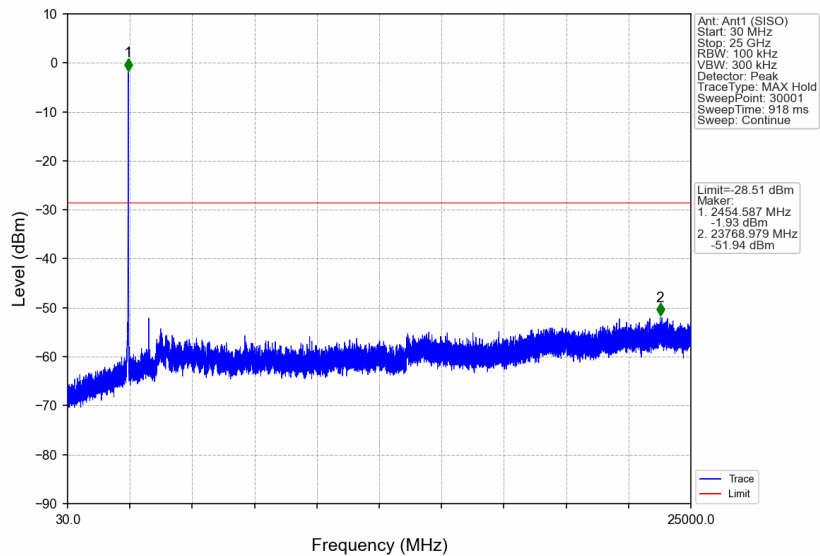
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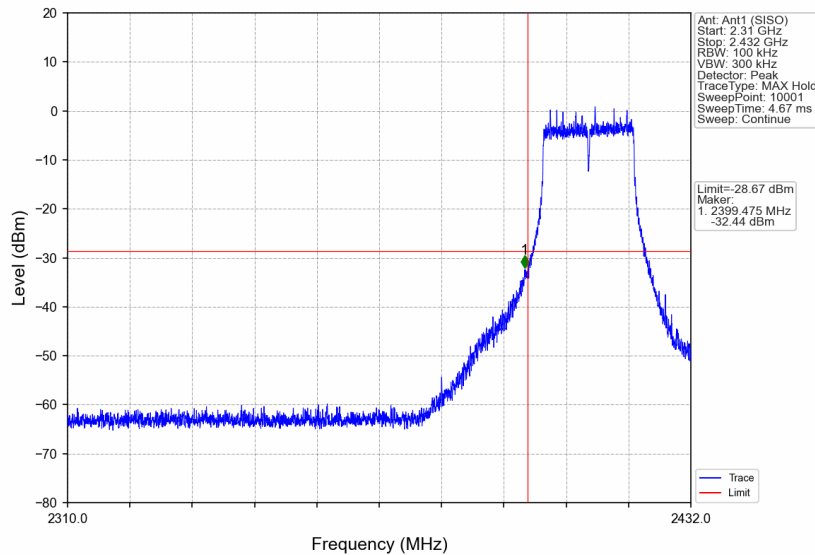


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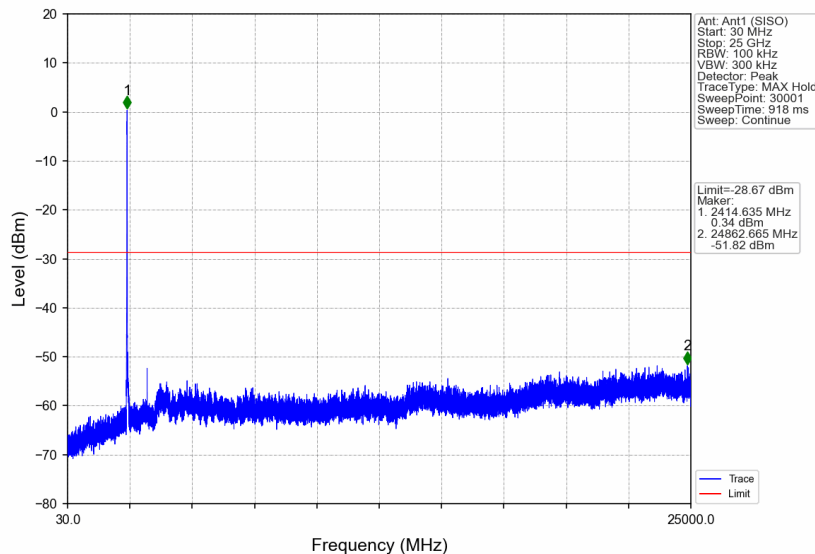
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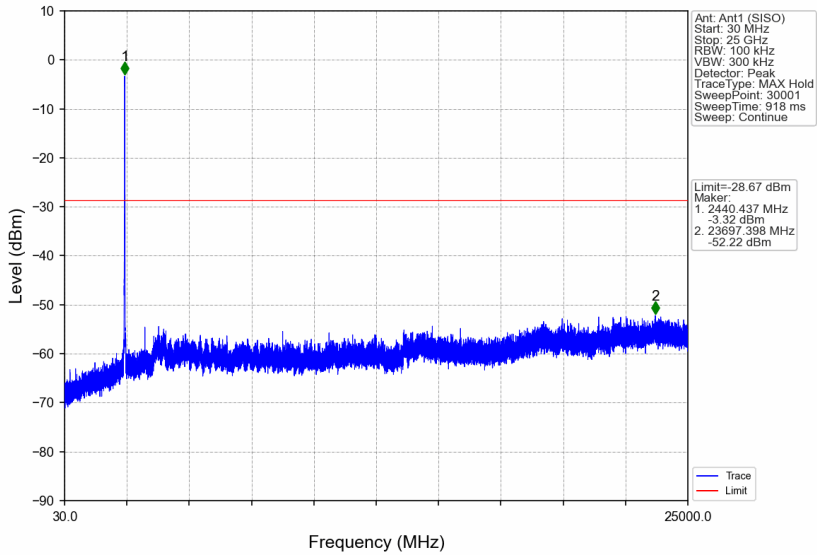


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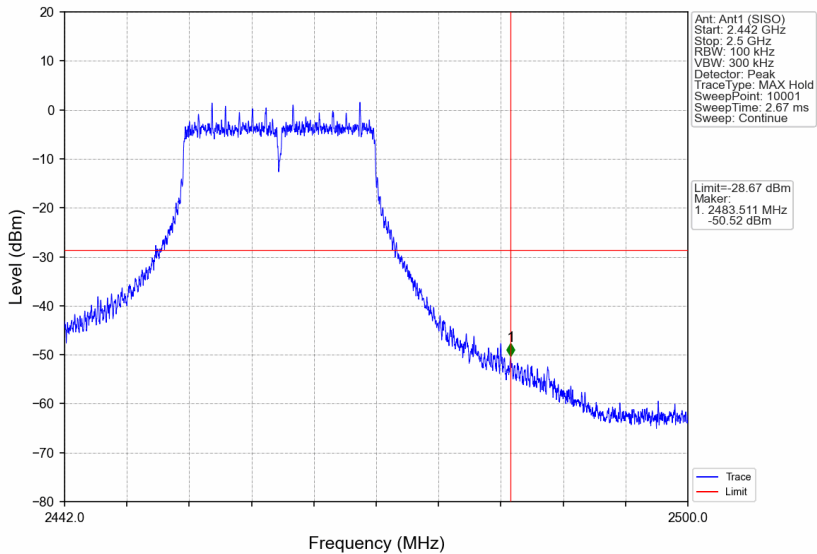
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### 802.11n(HT20) MCH\_2437MHz\_Ant1 (SISO) NTN



### 802.11n(HT20) HCH\_2462MHz\_Ant1 (SISO) NTN



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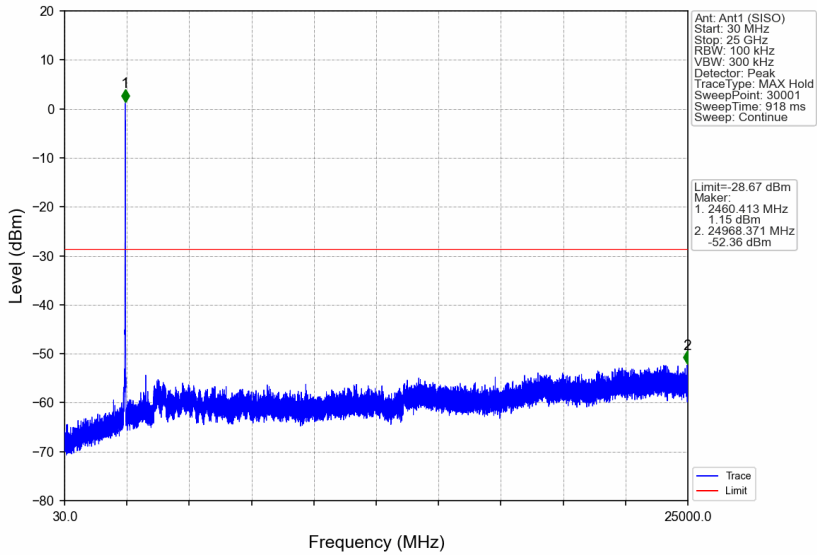
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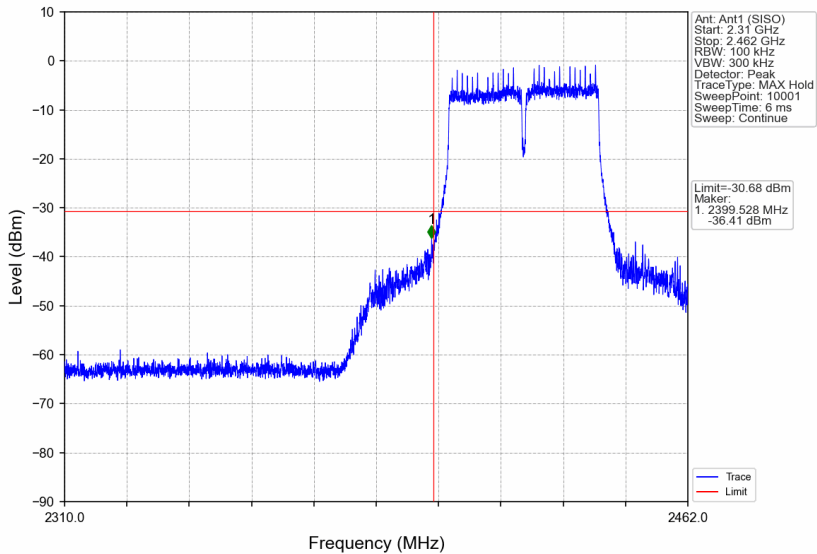
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTV



802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



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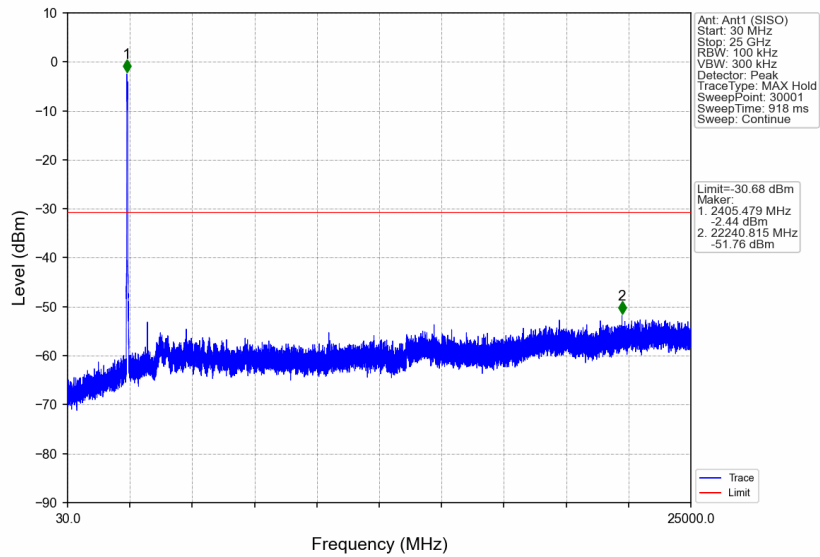
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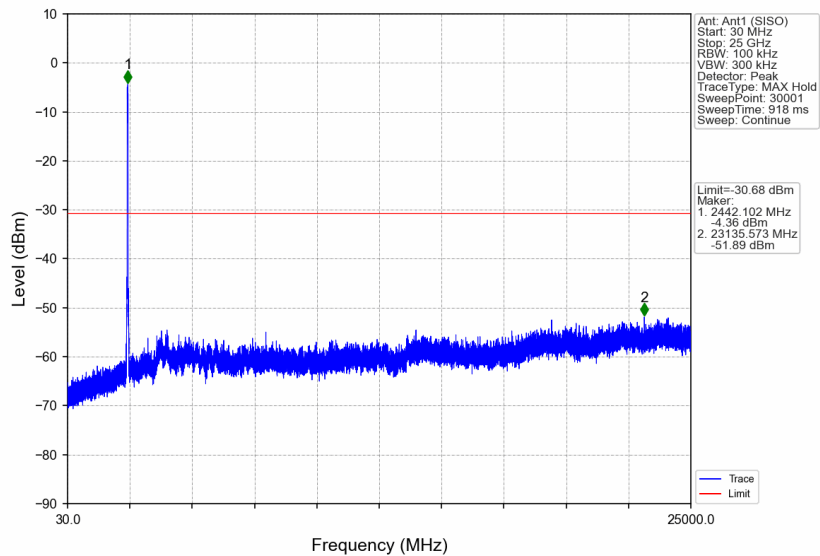
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### 802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTV



### 802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV



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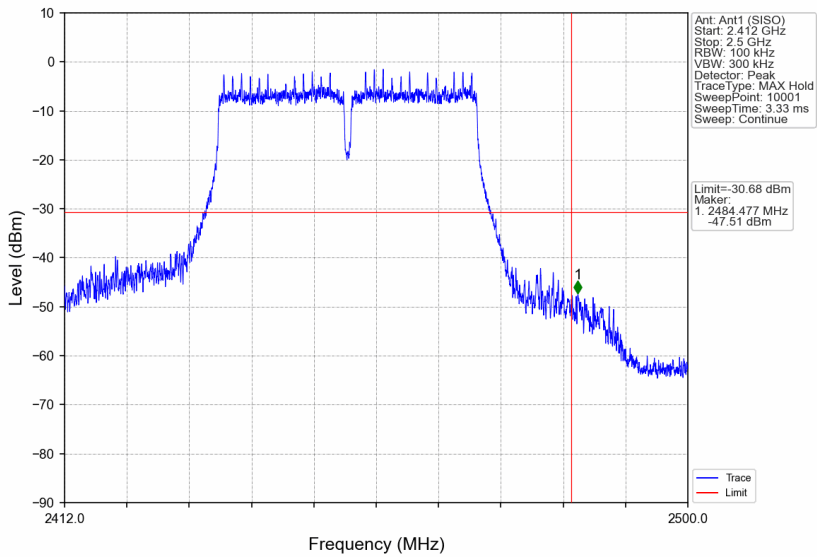
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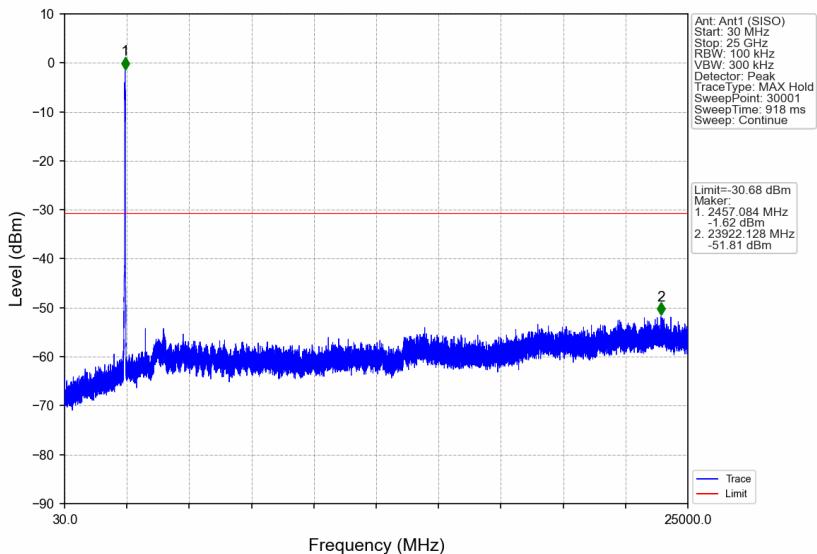
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### 802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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



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