

Appendix A for SHCR211200092501

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

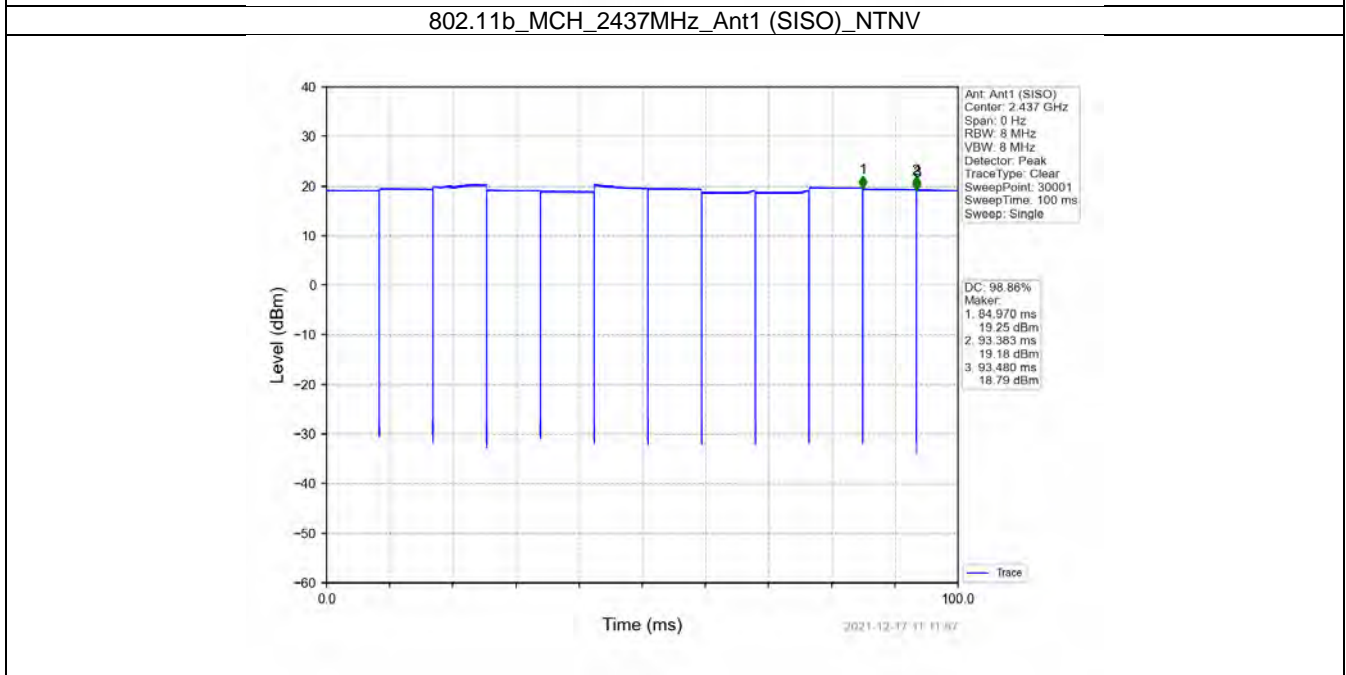
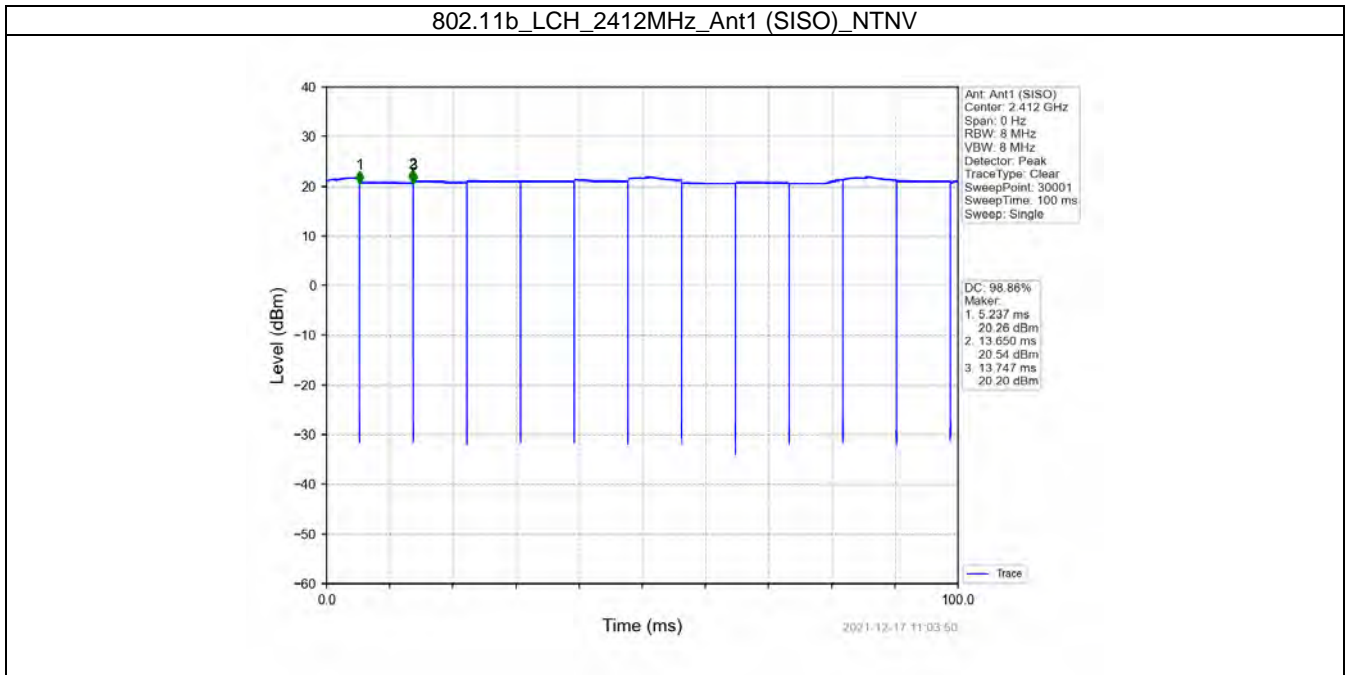
Ant1						
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	SISO	2412	8.413	8.510	98.86	0.05
		2437	8.413	8.510	98.86	0.05
		2462	8.414	9.037	93.11	0.31
802.11g	SISO	2412	2.063	2.093	98.57	0.06
		2437	2.063	2.093	98.57	0.06
		2462	2.063	2.093	98.57	0.06
802.11n (HT20)	MIMO	2412	1.308	1.734	75.43	1.22
		2437	1.307	1.733	75.42	1.23
		2462	1.307	1.407	92.89	0.32



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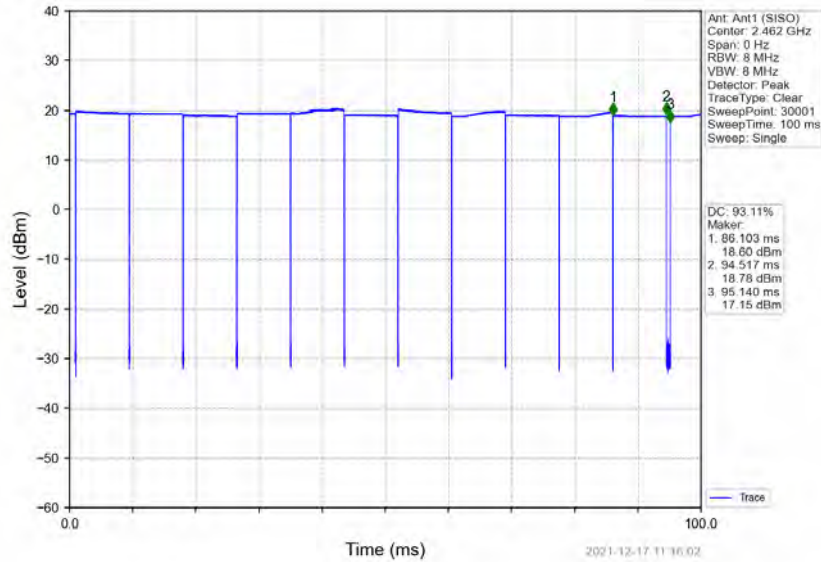
1.1.2 Test Graph



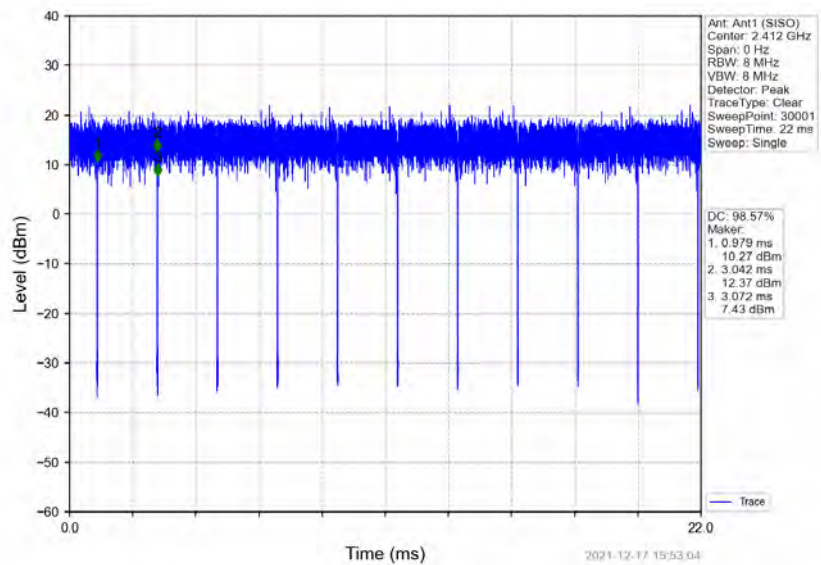
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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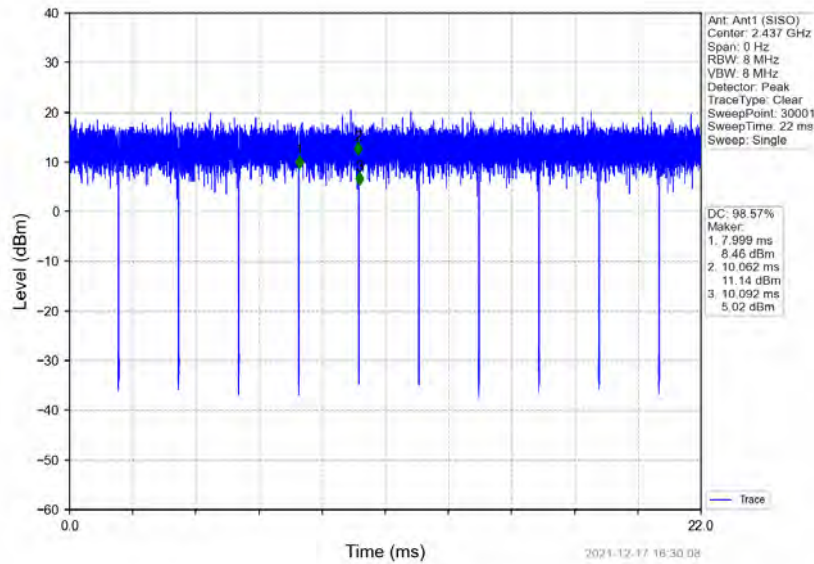
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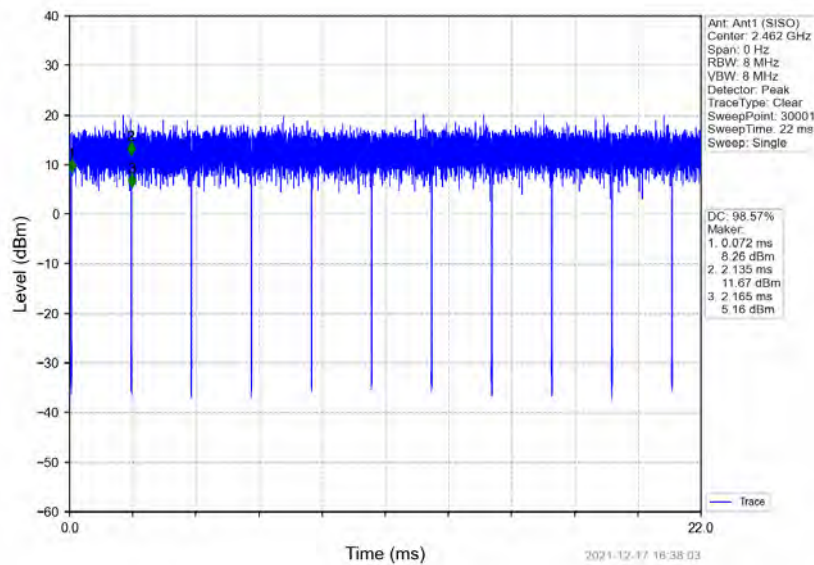
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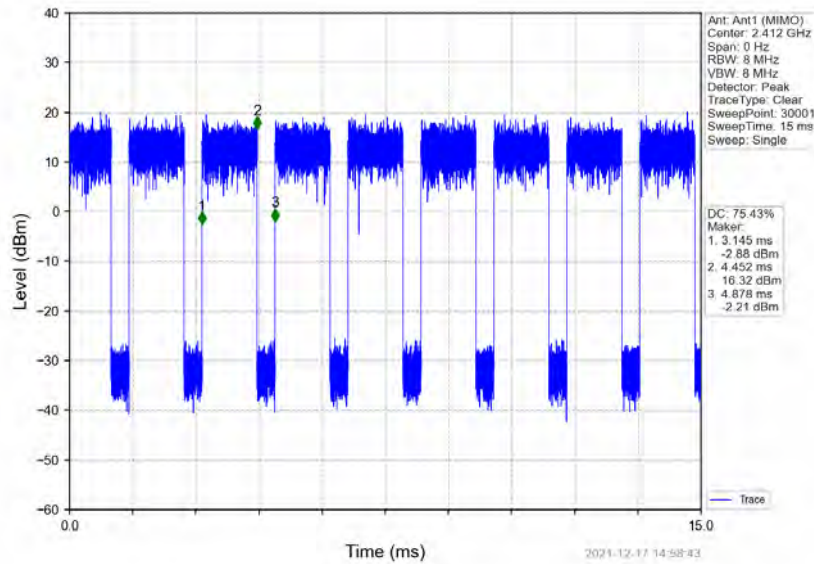
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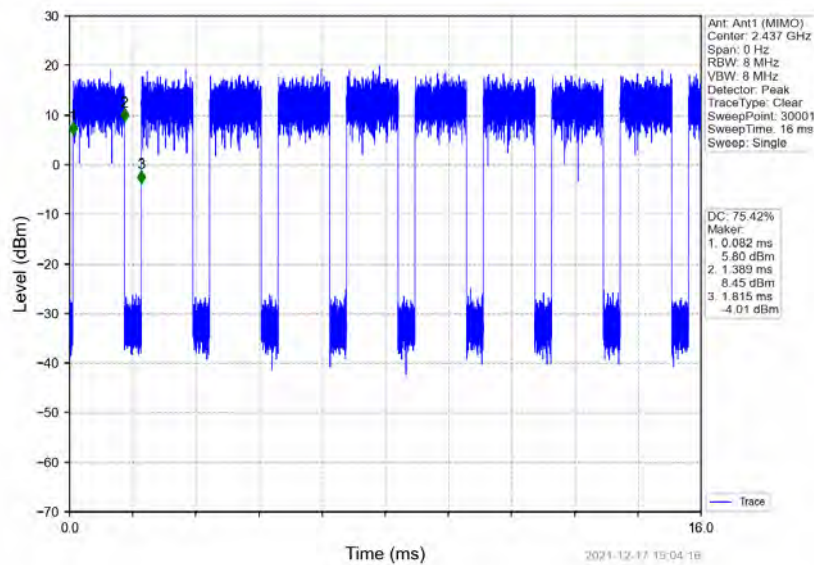
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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



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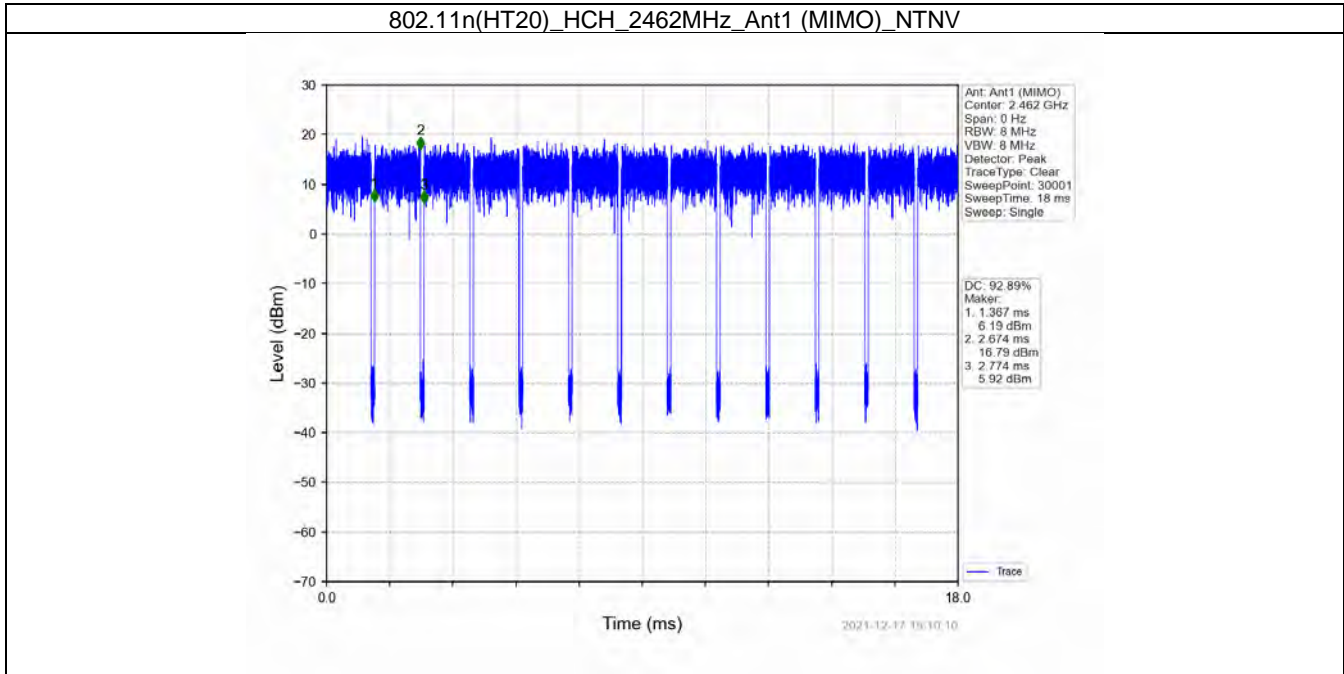
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

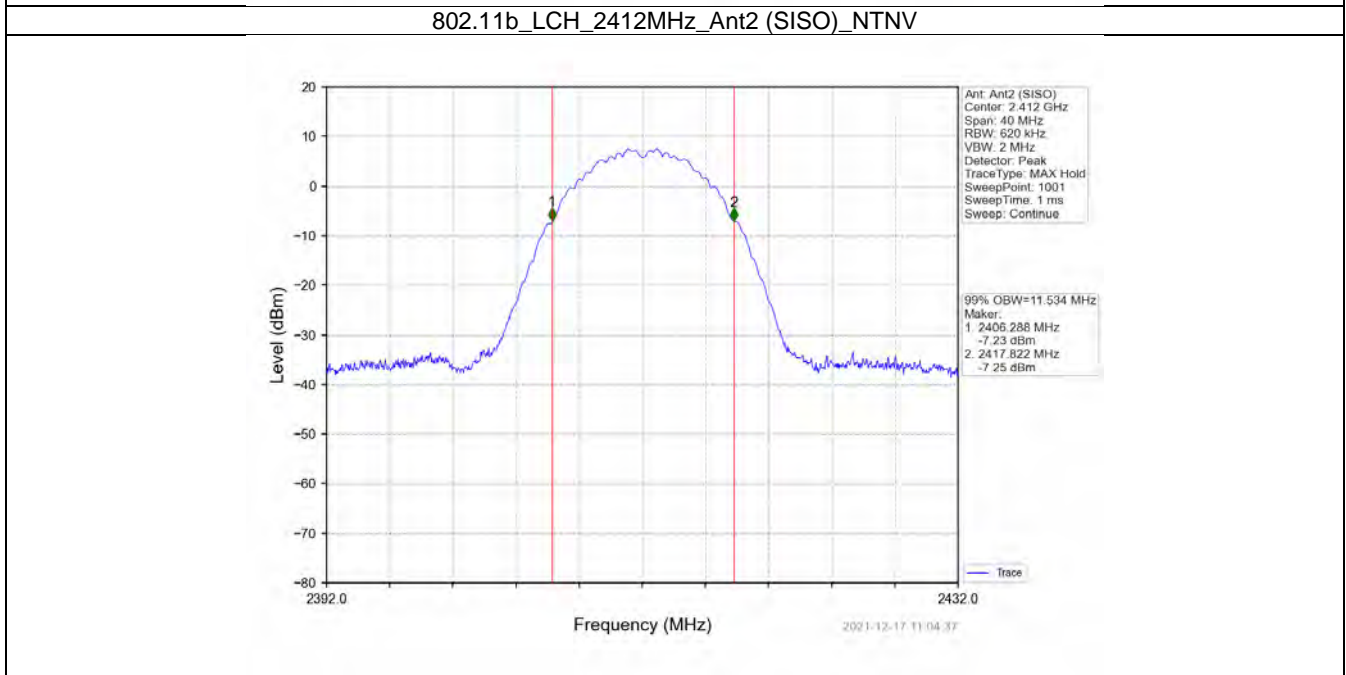
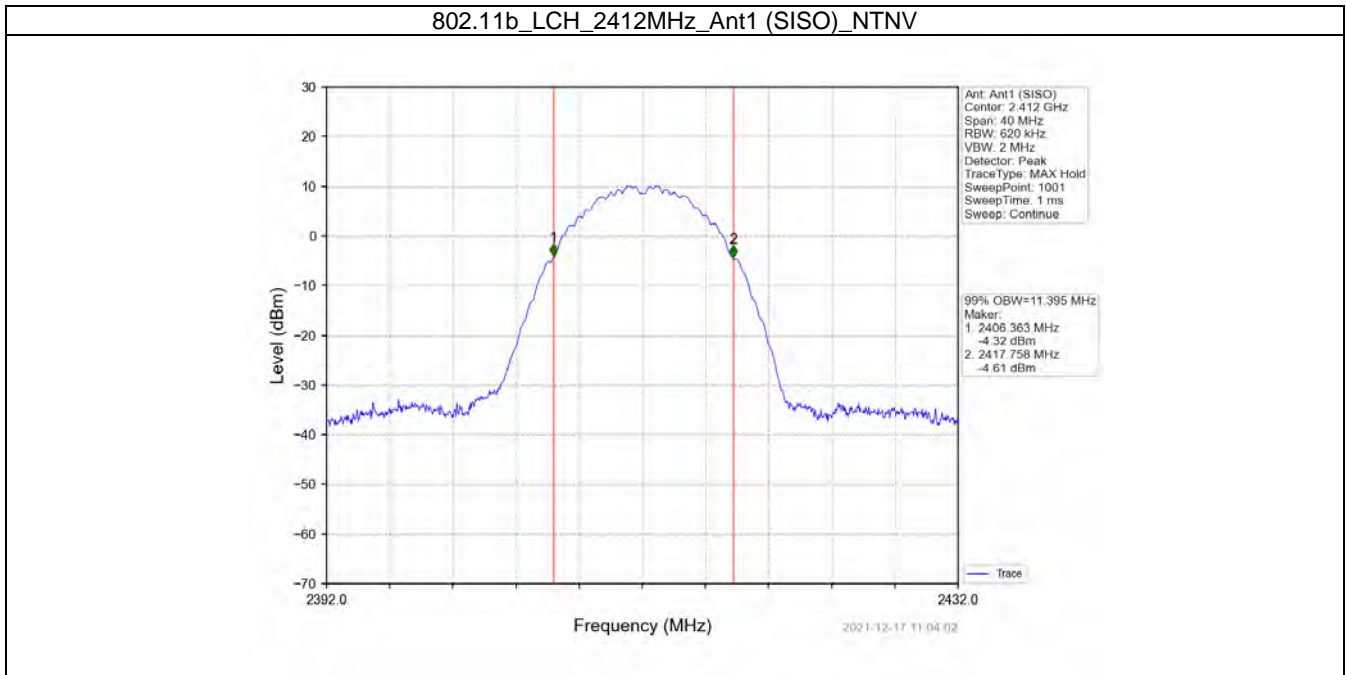
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	11.395	Pass
			2	11.534	Pass
		2437	1	11.306	Pass
			2	11.478	Pass
		2462	1	11.364	Pass
			2	11.515	Pass
802.11g	SISO	2412	1	17.929	Pass
			2	17.974	Pass
		2437	1	17.899	Pass
			2	17.965	Pass
		2462	1	17.933	Pass
			2	17.942	Pass
802.11n (HT20)	MIMO	2412	1	18.918	Pass
			2	18.248	Pass
		2437	1	18.902	Pass
			2	18.255	Pass
		2462	1	18.888	Pass
			2	18.265	Pass



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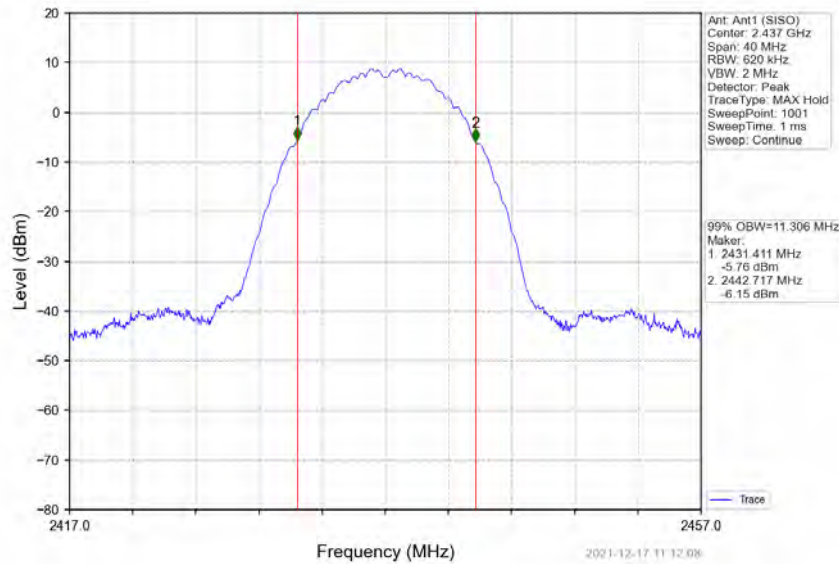
2.1.2 Test Graph



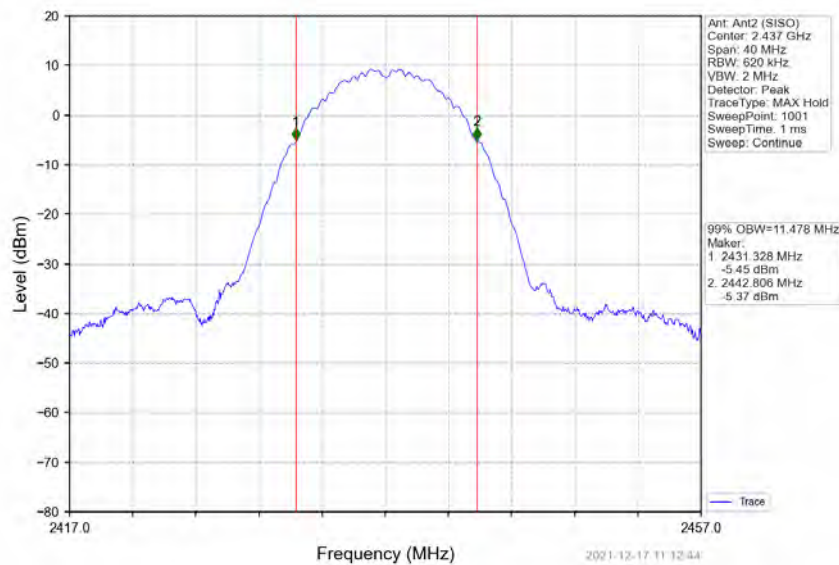
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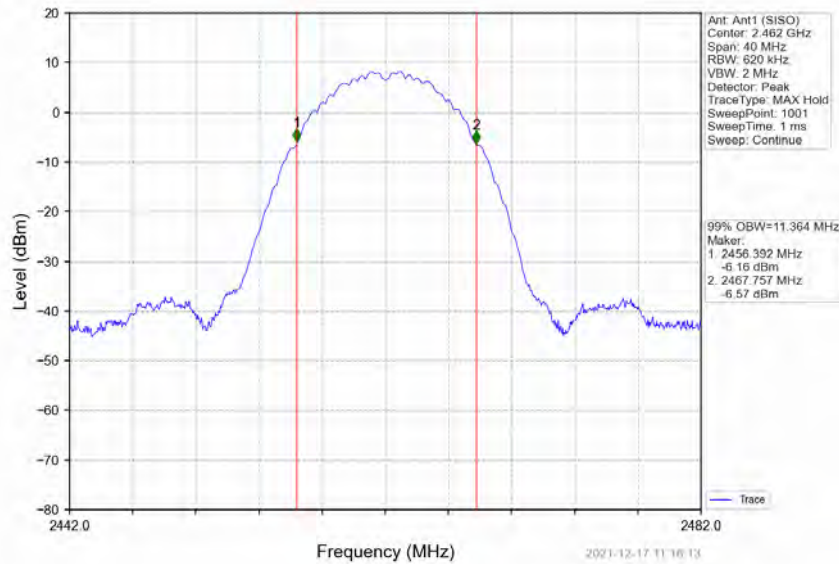
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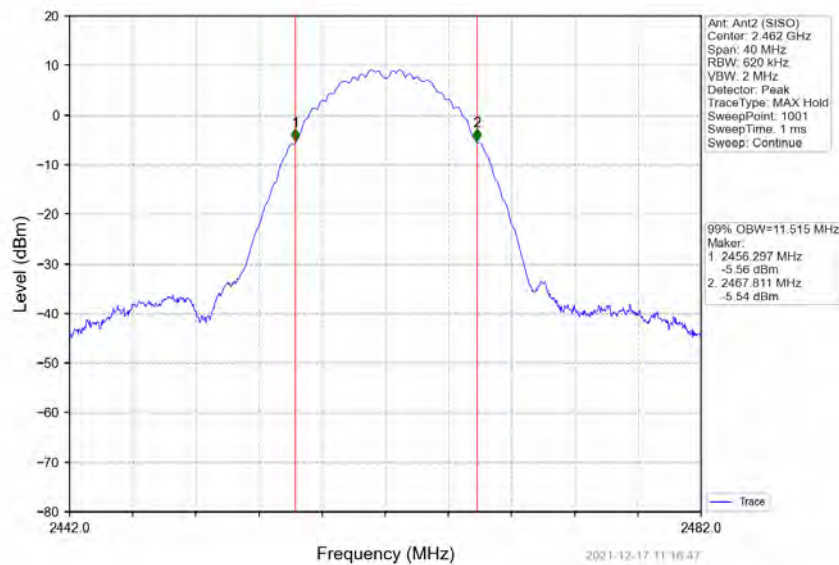




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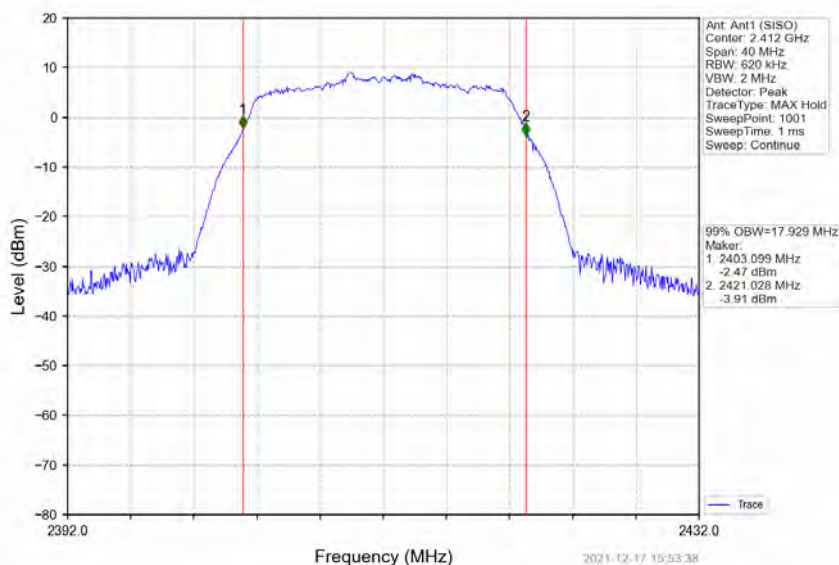
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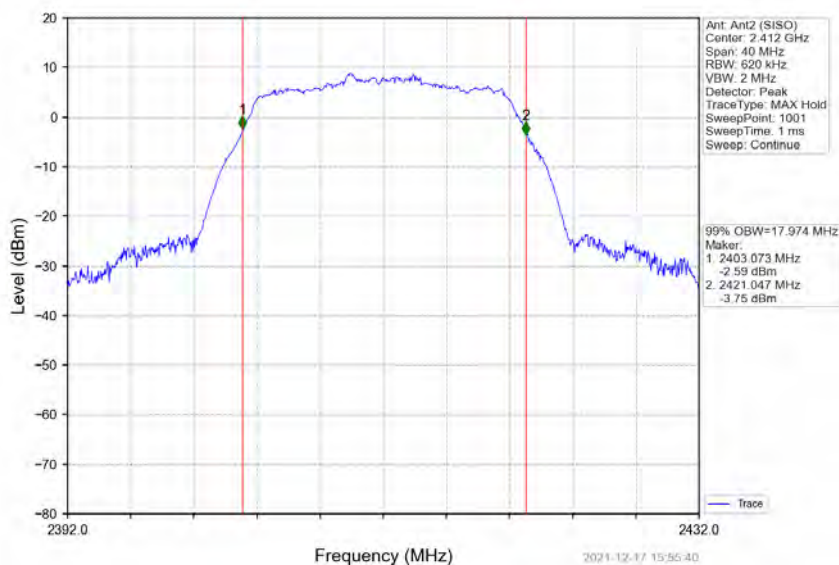
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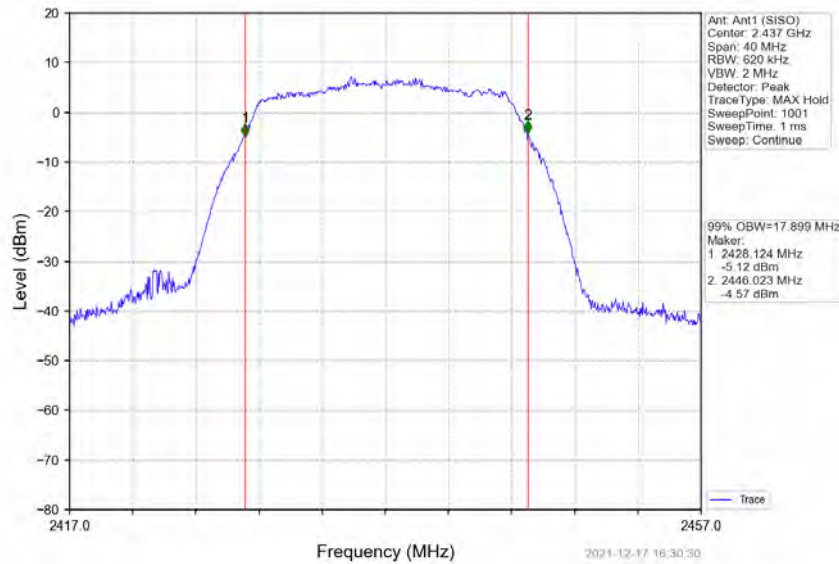
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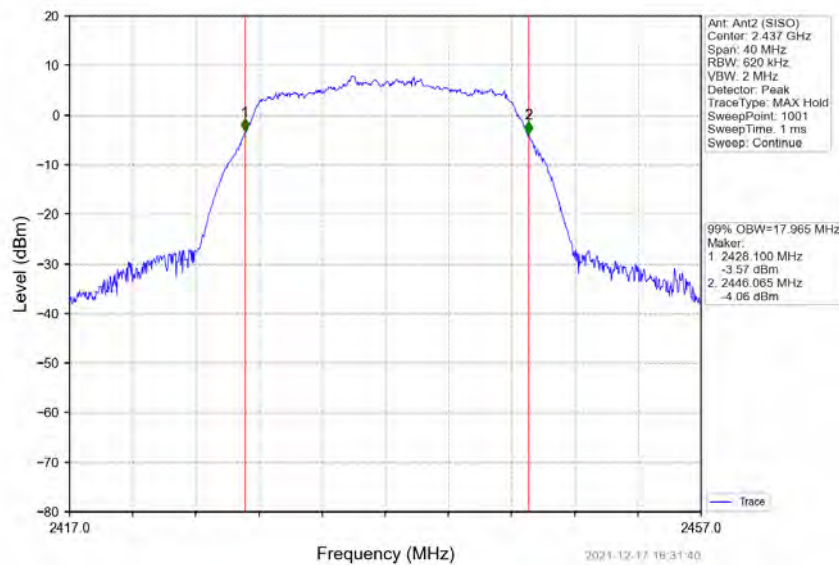
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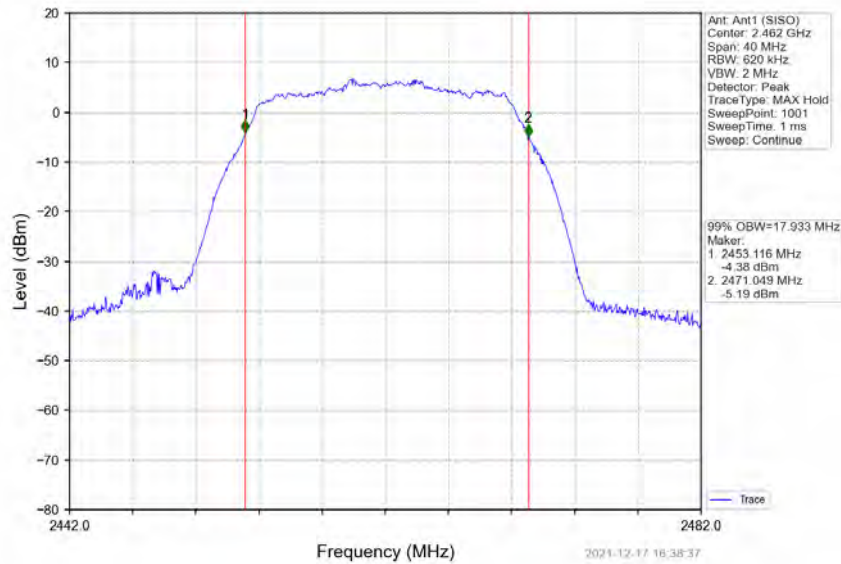
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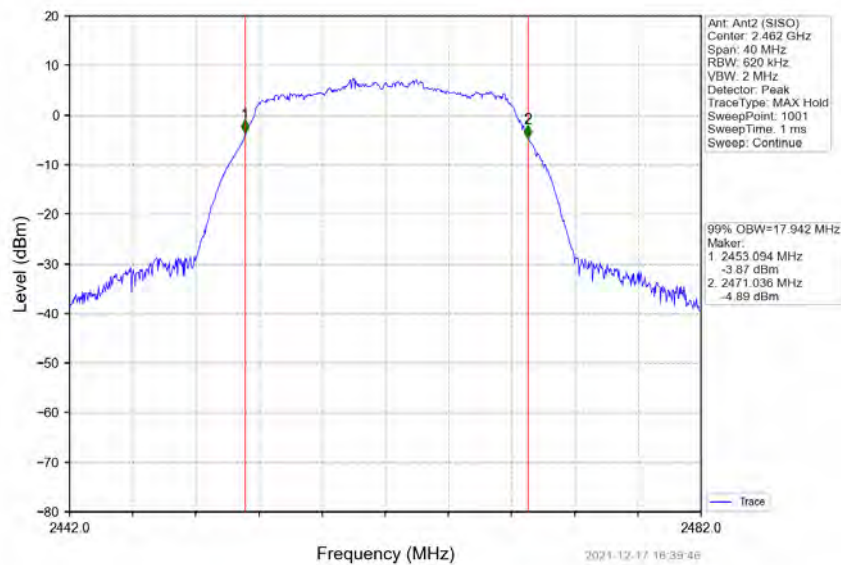
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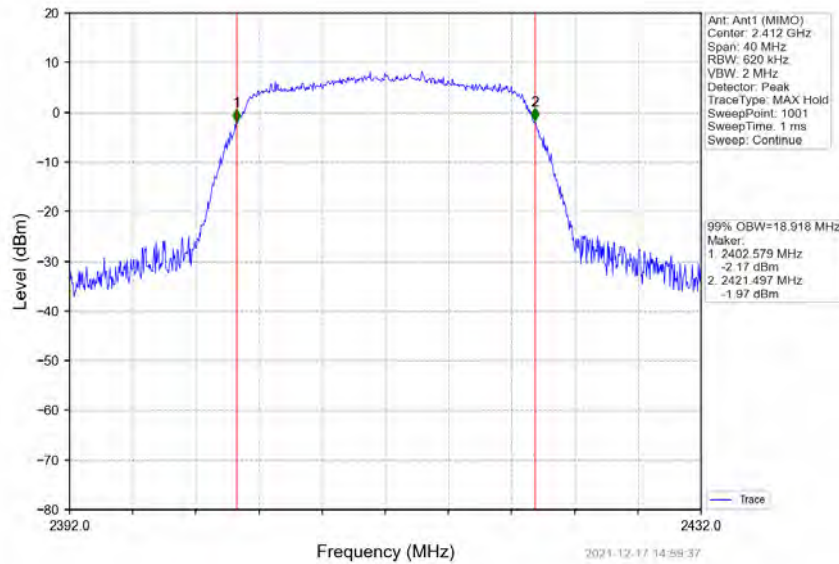
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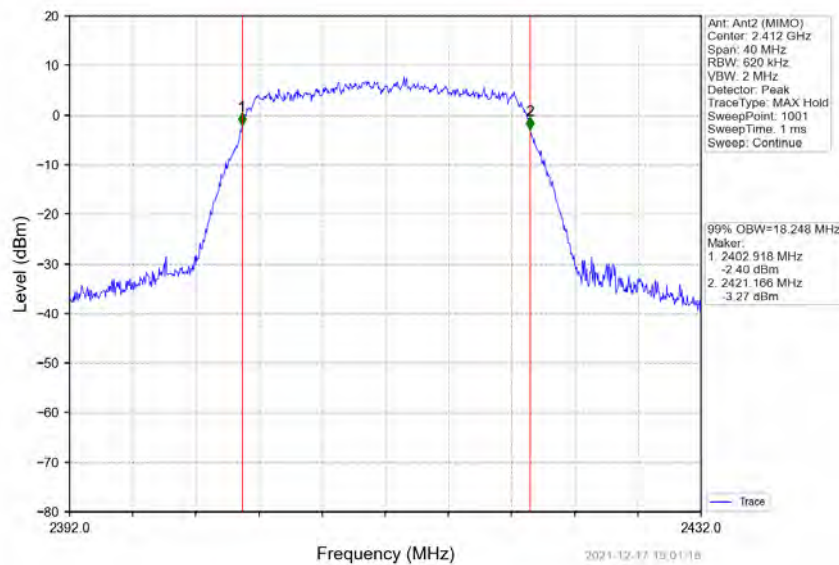
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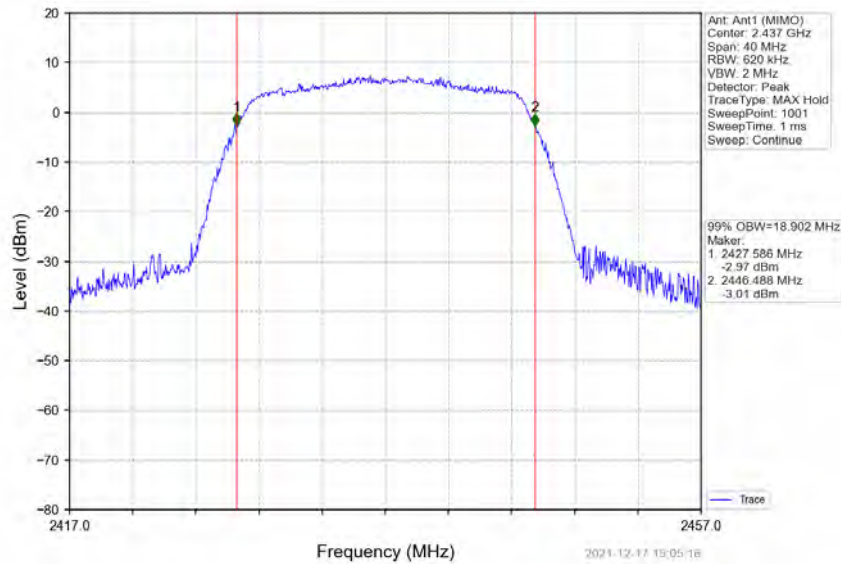
802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



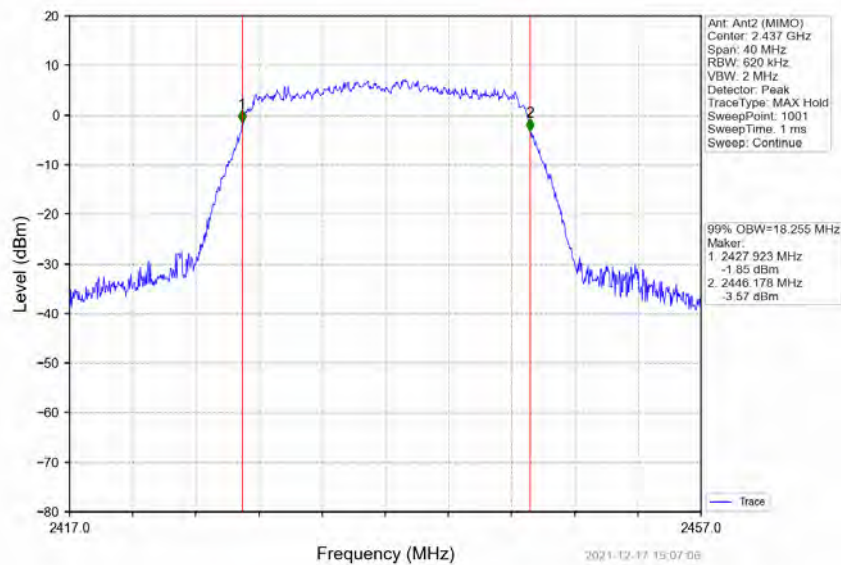
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



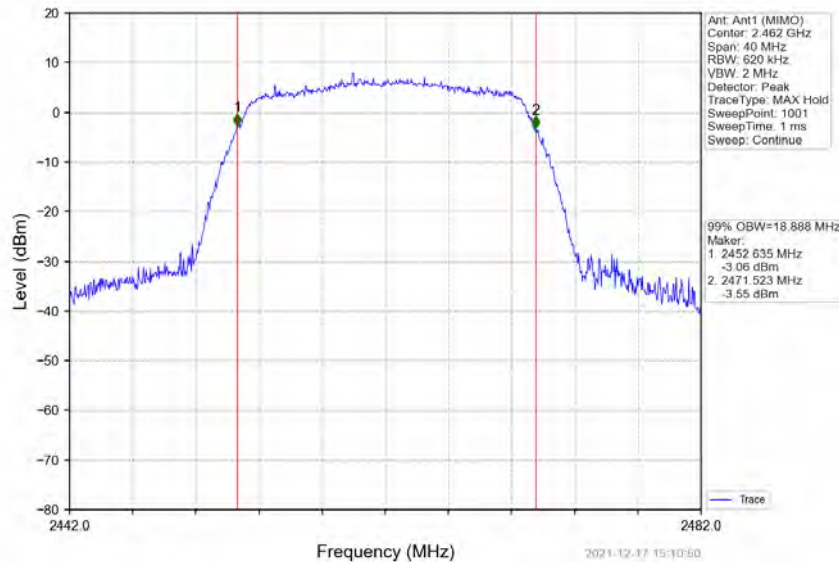
802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



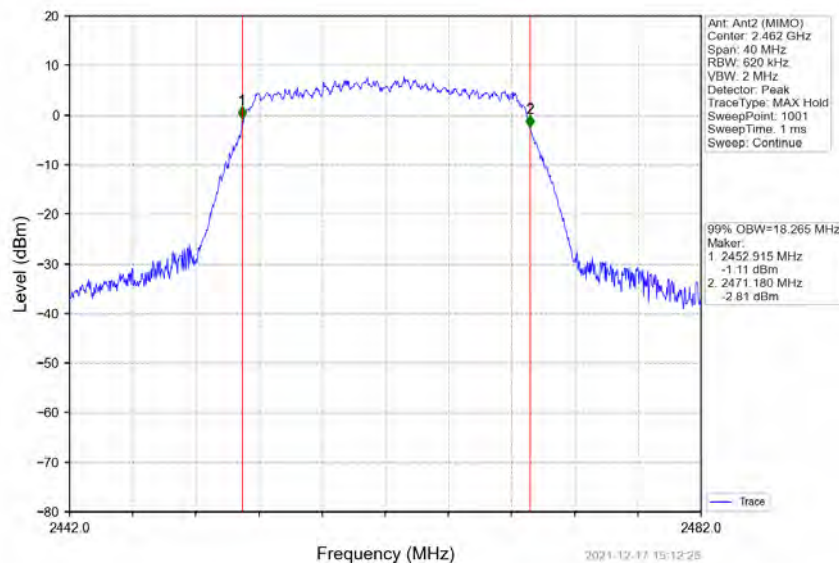
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



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



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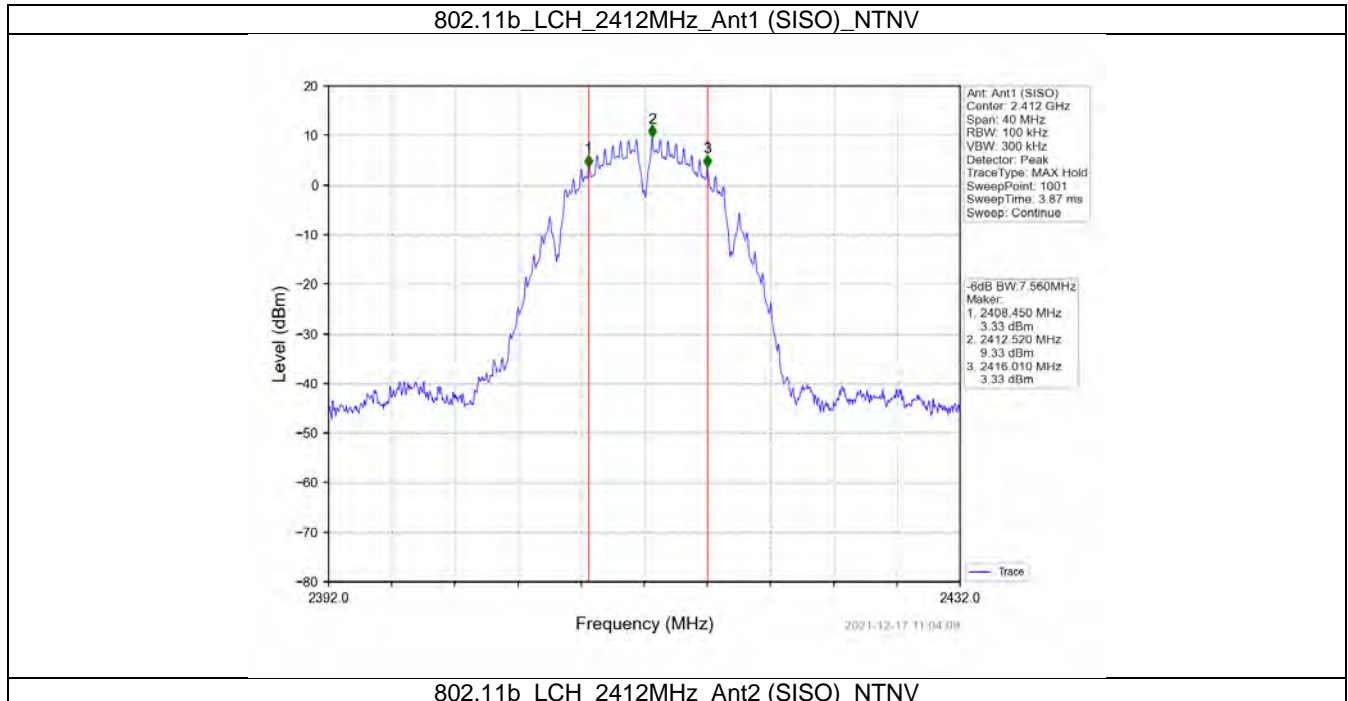
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.560	>=0.5	Pass
			2	8.021	>=0.5	Pass
		2437	1	7.595	>=0.5	Pass
			2	7.129	>=0.5	Pass
		2462	1	7.597	>=0.5	Pass
			2	8.050	>=0.5	Pass
802.11g	SISO	2412	1	16.375	>=0.5	Pass
			2	16.370	>=0.5	Pass
		2437	1	16.378	>=0.5	Pass
			2	16.386	>=0.5	Pass
		2462	1	16.373	>=0.5	Pass
			2	16.383	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.611	>=0.5	Pass
			2	17.633	>=0.5	Pass
		2437	1	17.605	>=0.5	Pass
			2	17.642	>=0.5	Pass
		2462	1	17.594	>=0.5	Pass
			2	17.624	>=0.5	Pass

2.2.2 Test Graph



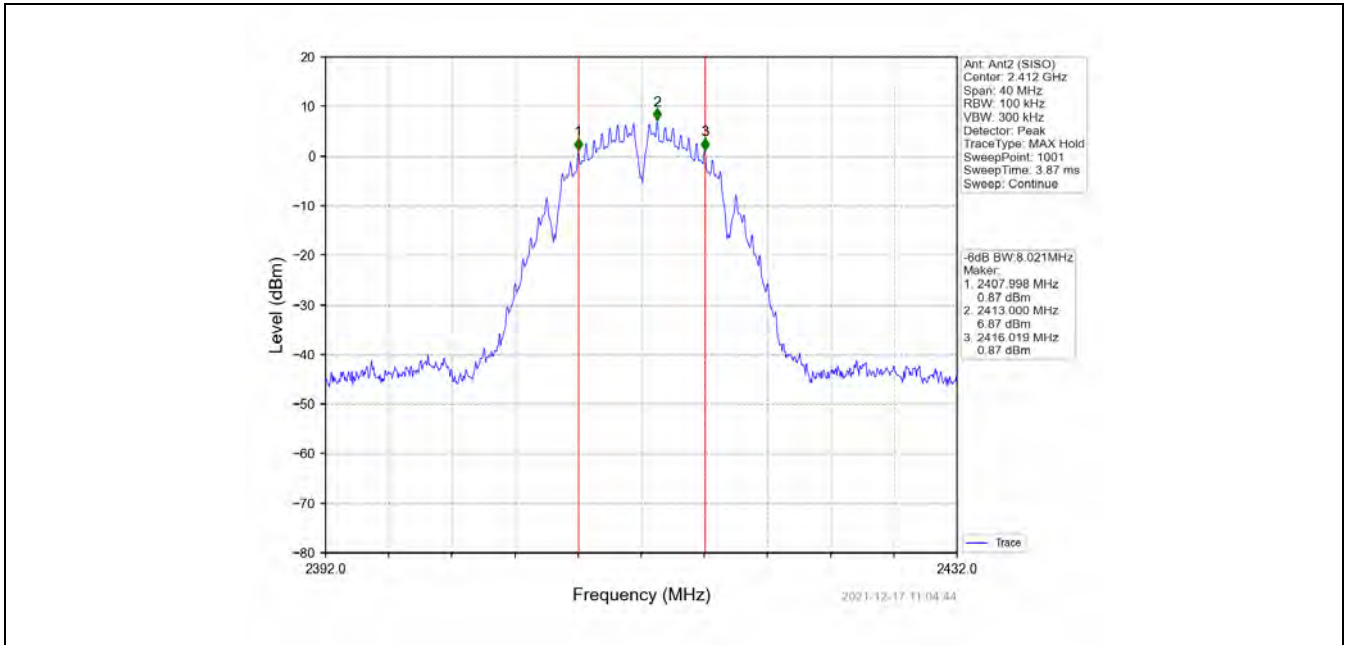
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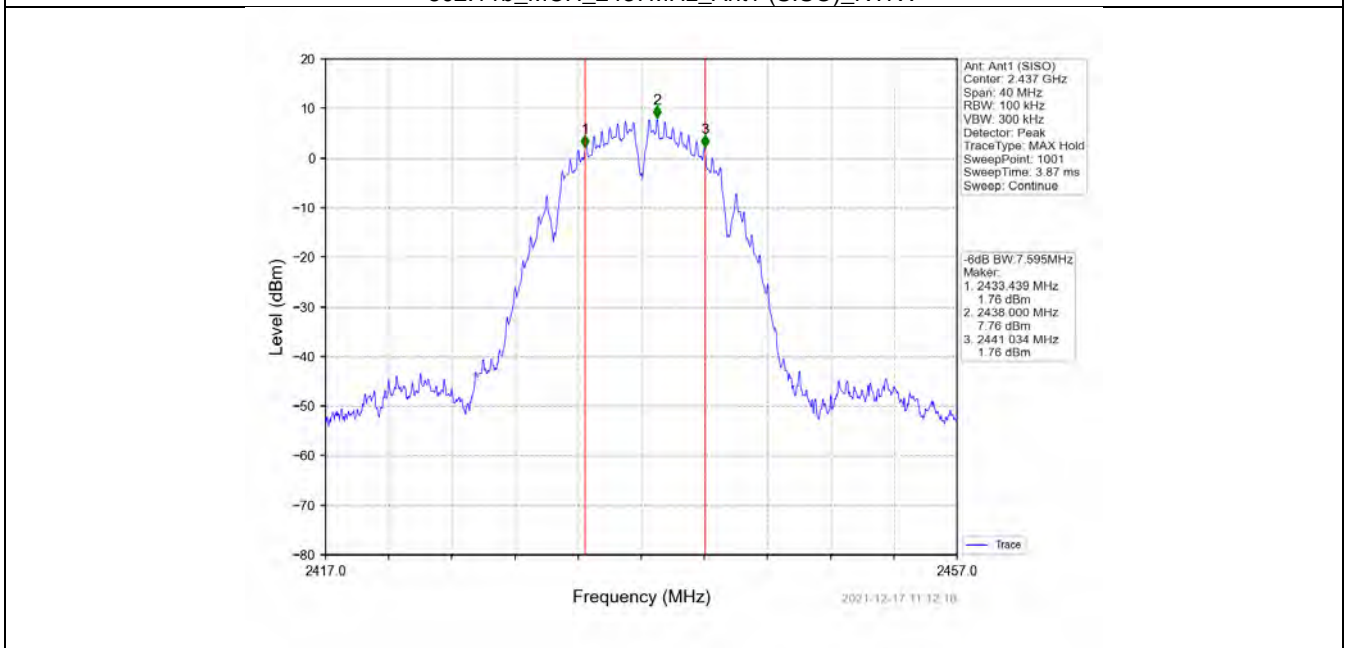
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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

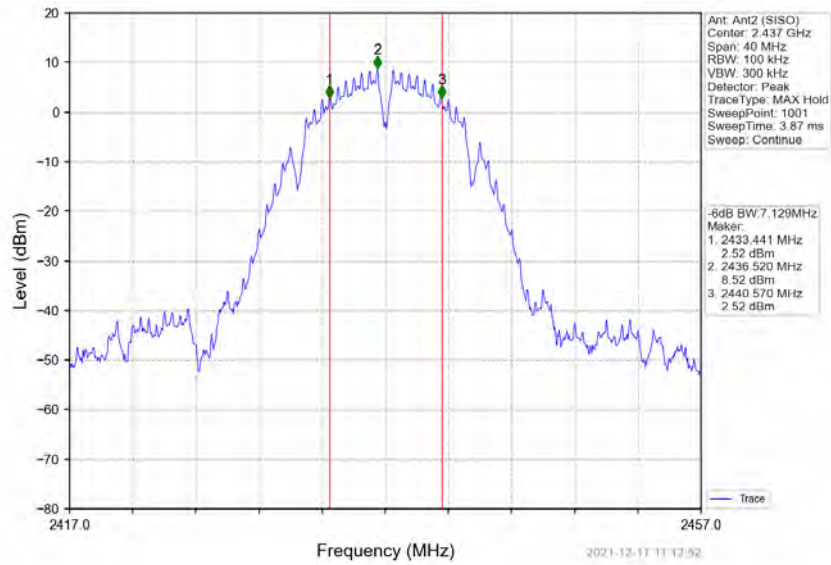


802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

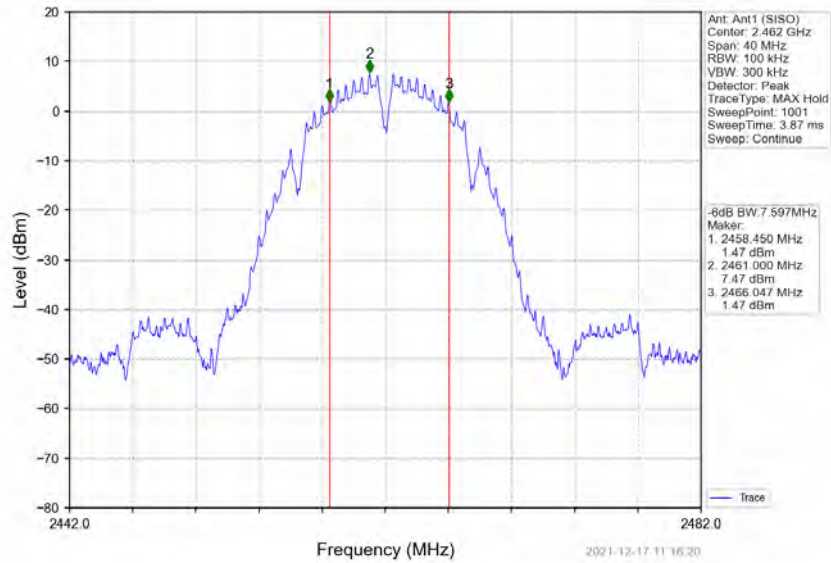


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

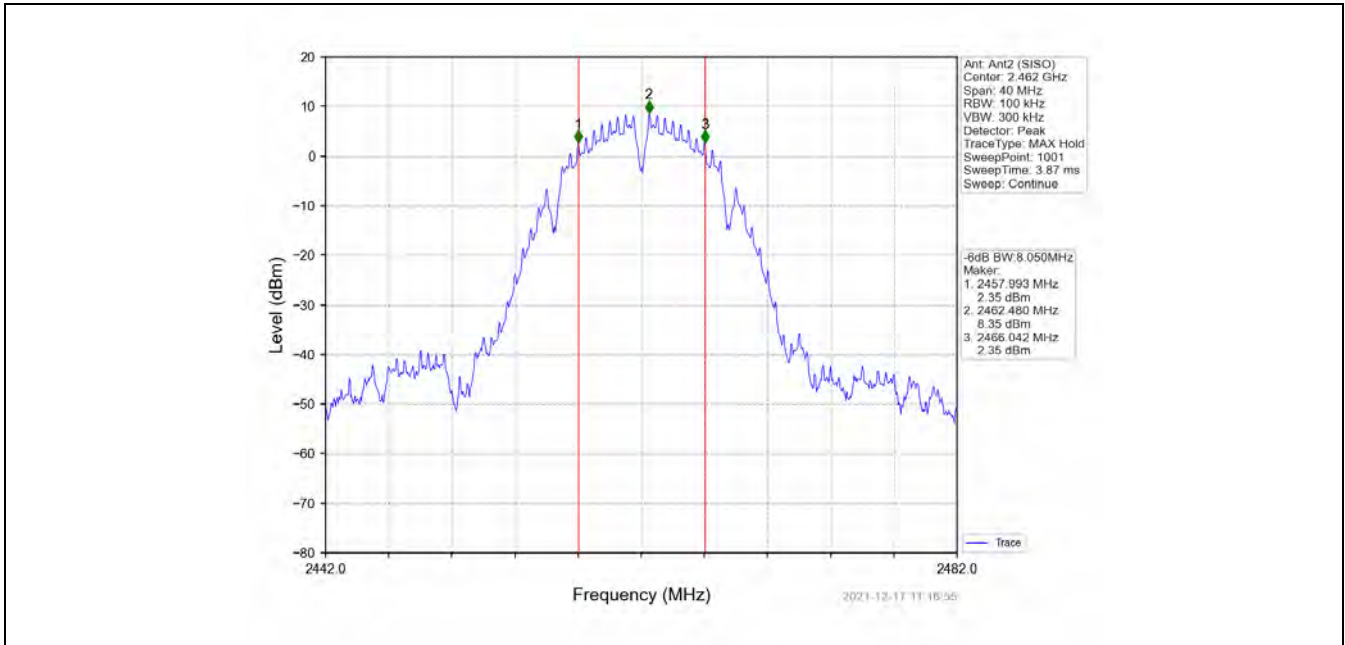
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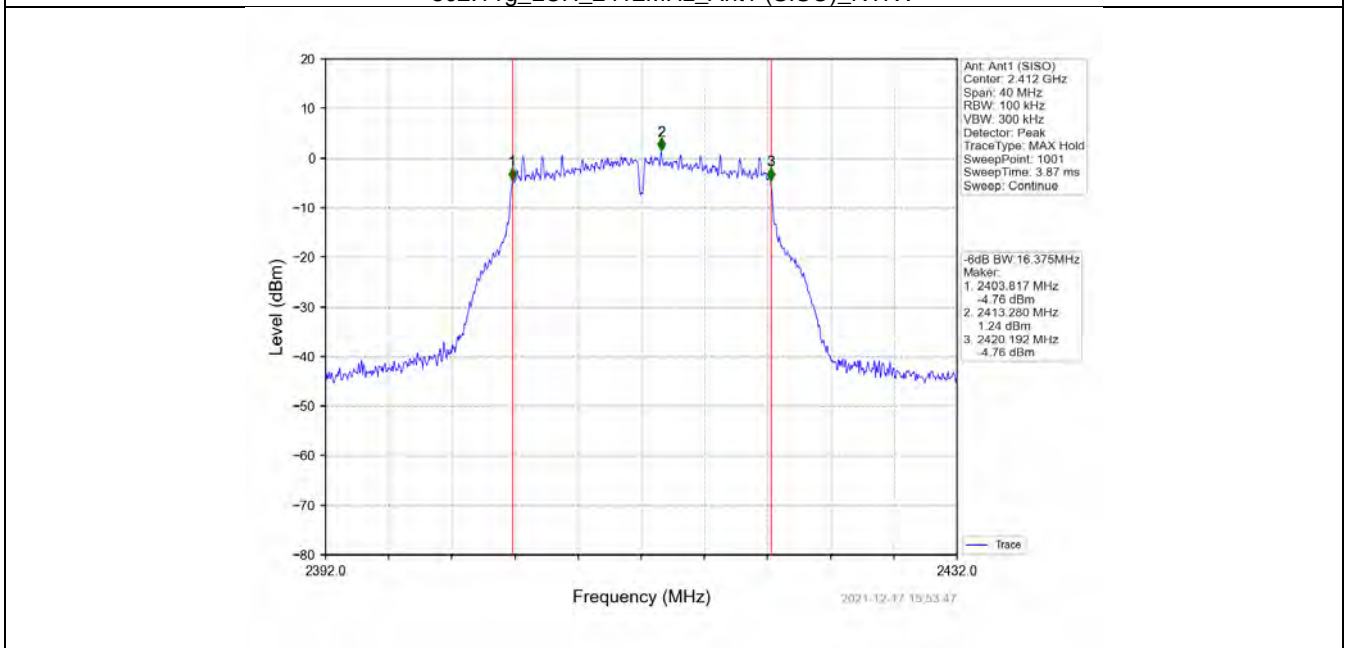
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

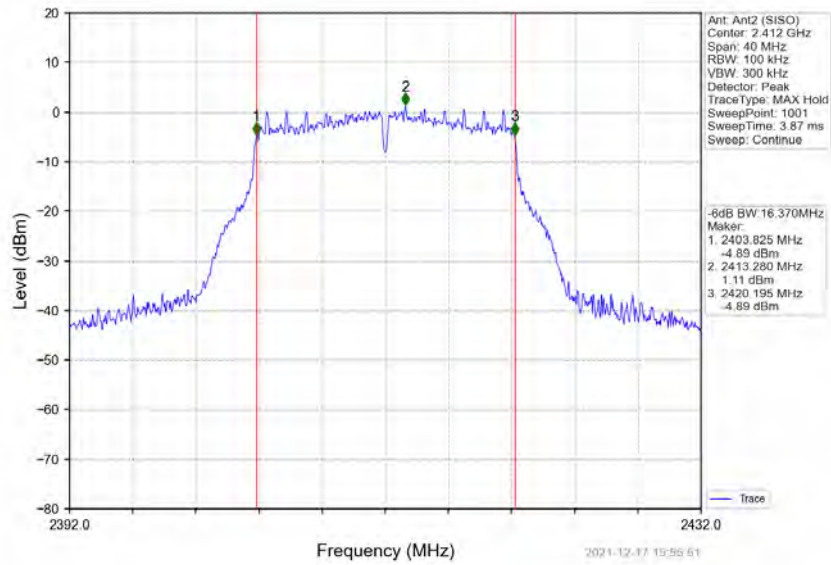


802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV

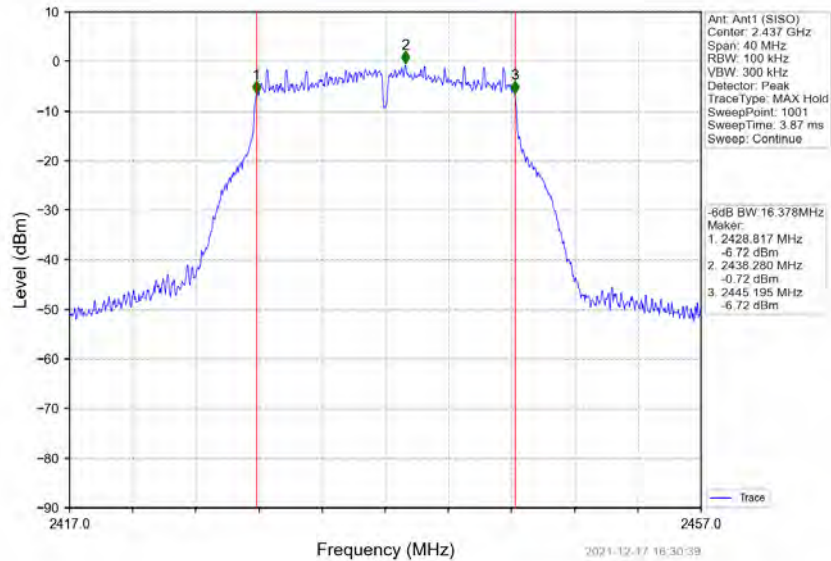


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

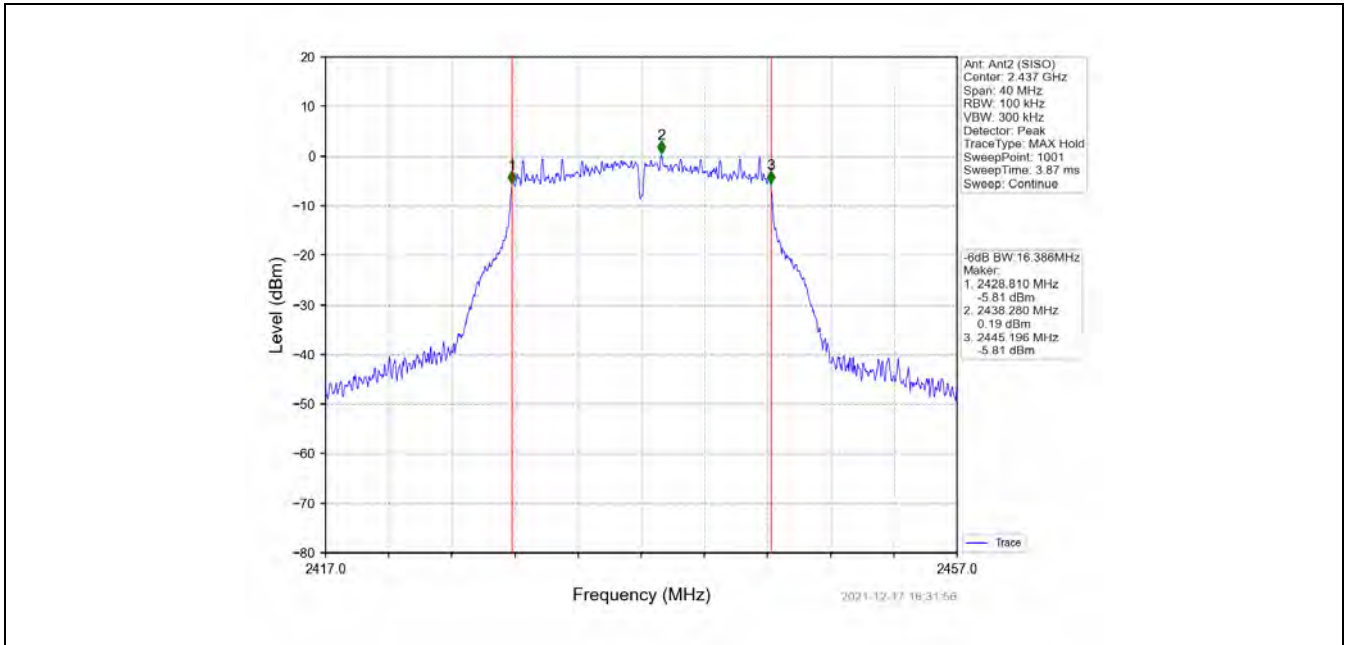


802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

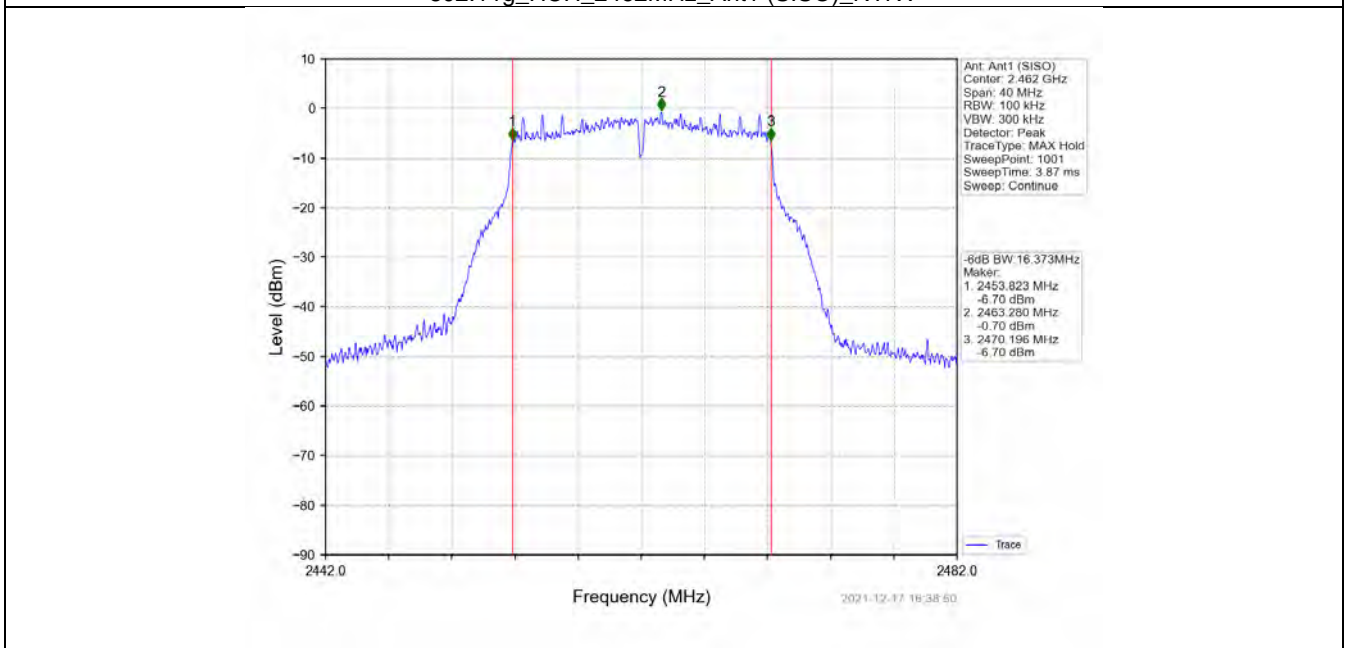


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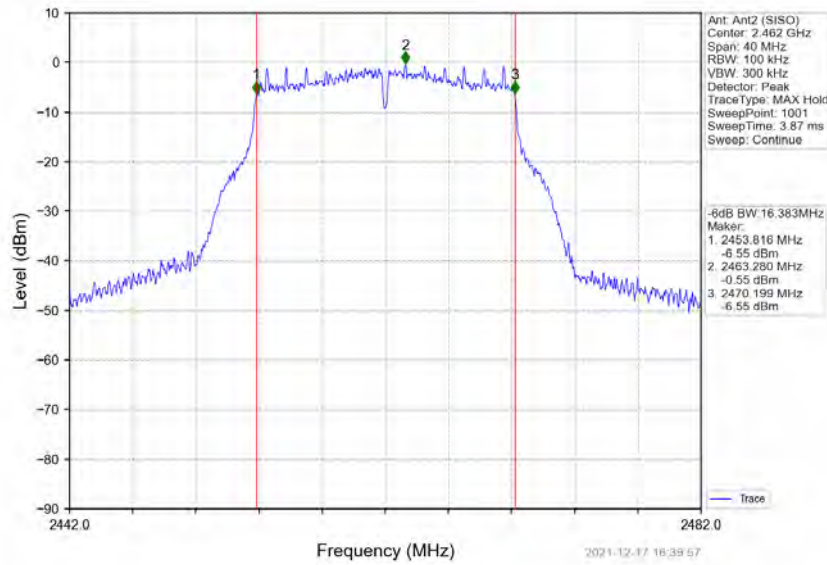


802.11g\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV

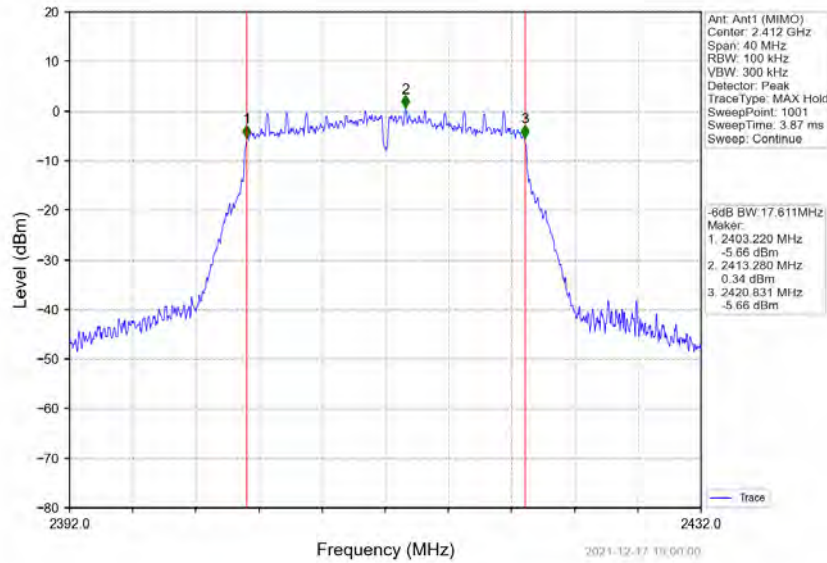


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV

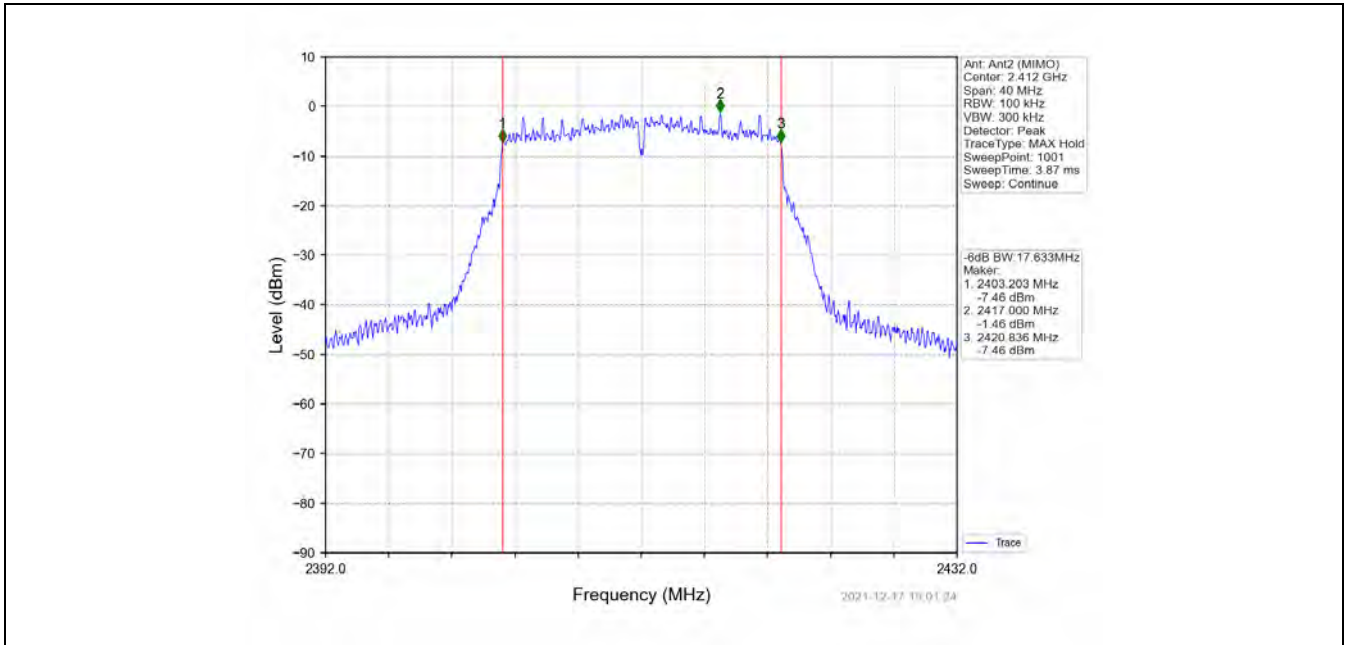


802.11n(HT20)\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV

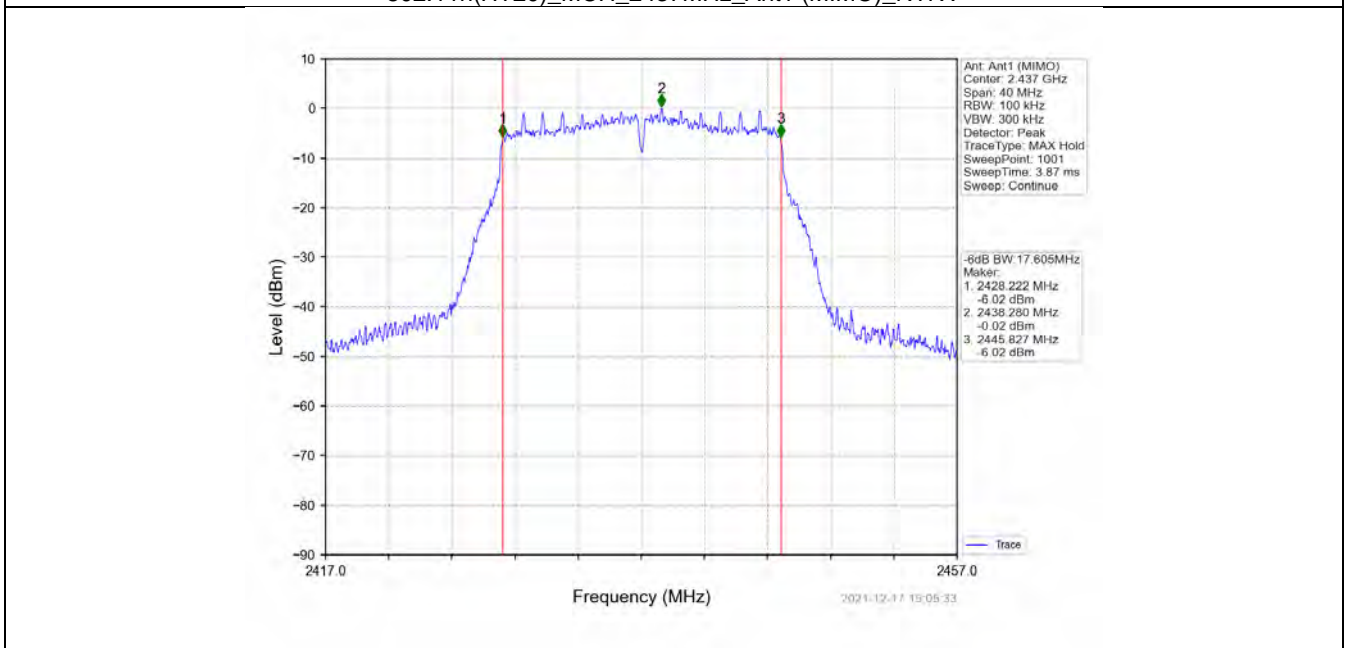


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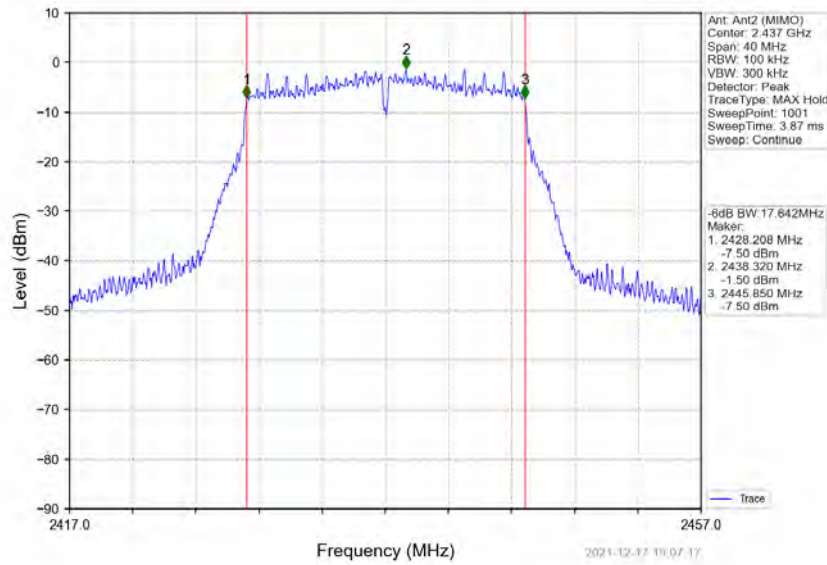


802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

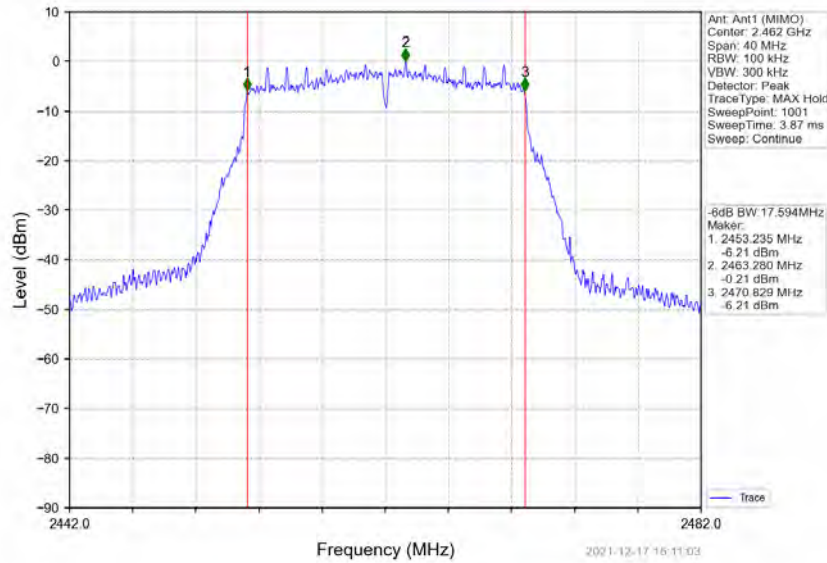


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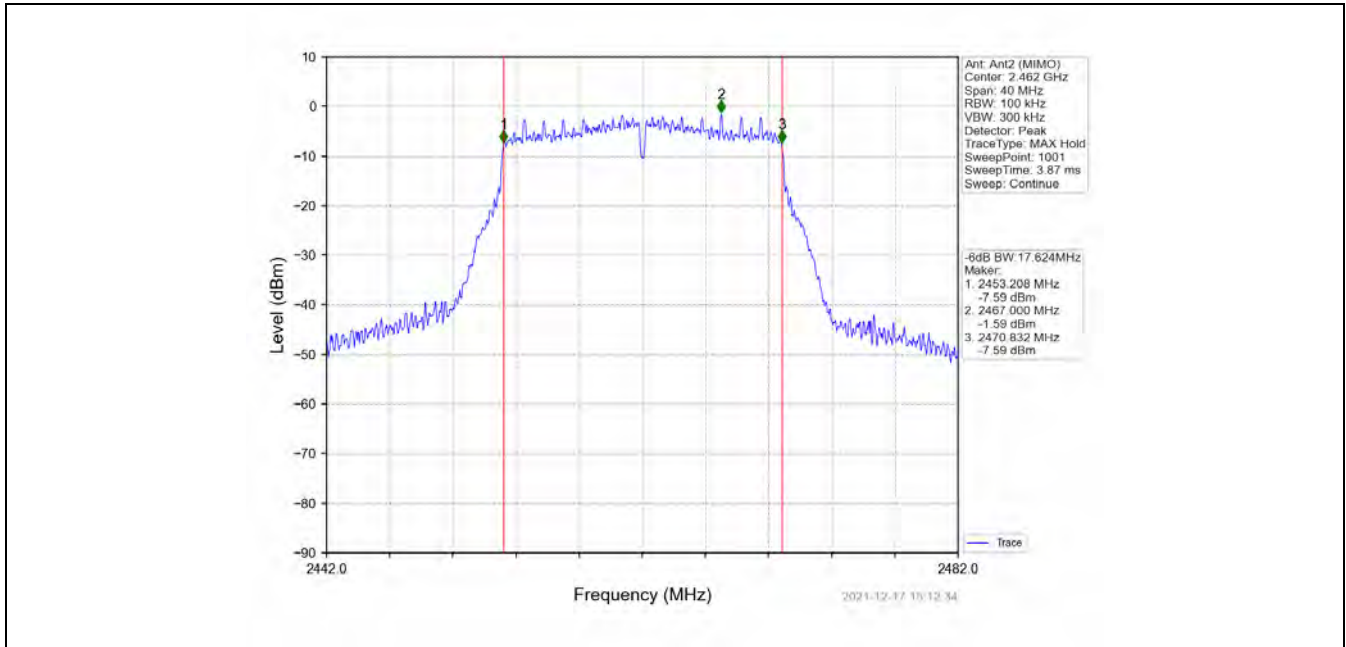
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	15.91	16.26	/	<=30	Pass
		2437	15.33	16.10	/	<=30	Pass
		2462	15.34	16.06	/	<=30	Pass
802.11g	SISO	2412	11.75	11.70	/	<=30	Pass
		2437	11.11	11.56	/	<=30	Pass
		2462	10.95	11.24	/	<=30	Pass
802.11n (HT20)	MIMO	2412	13.02	10.72	15.03	<=30	Pass
		2437	11.62	9.91	13.86	<=30	Pass
		2462	10.42	9.47	12.98	<=30	Pass

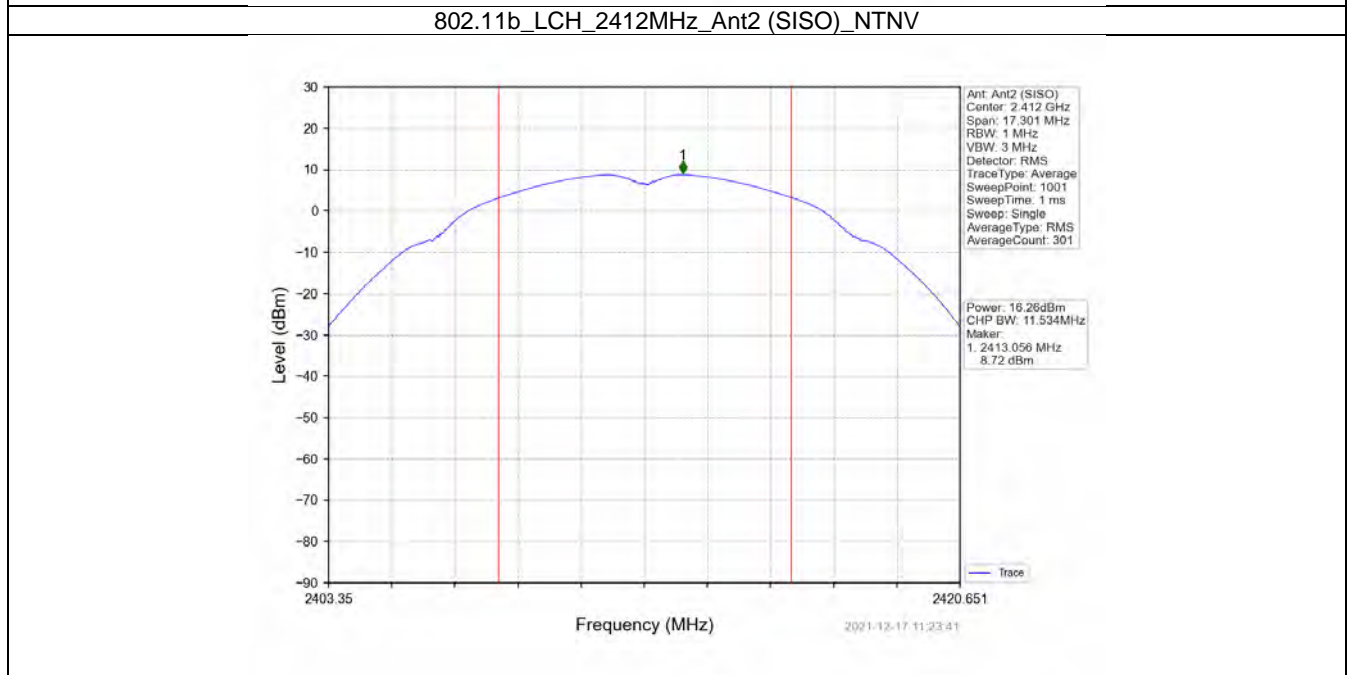
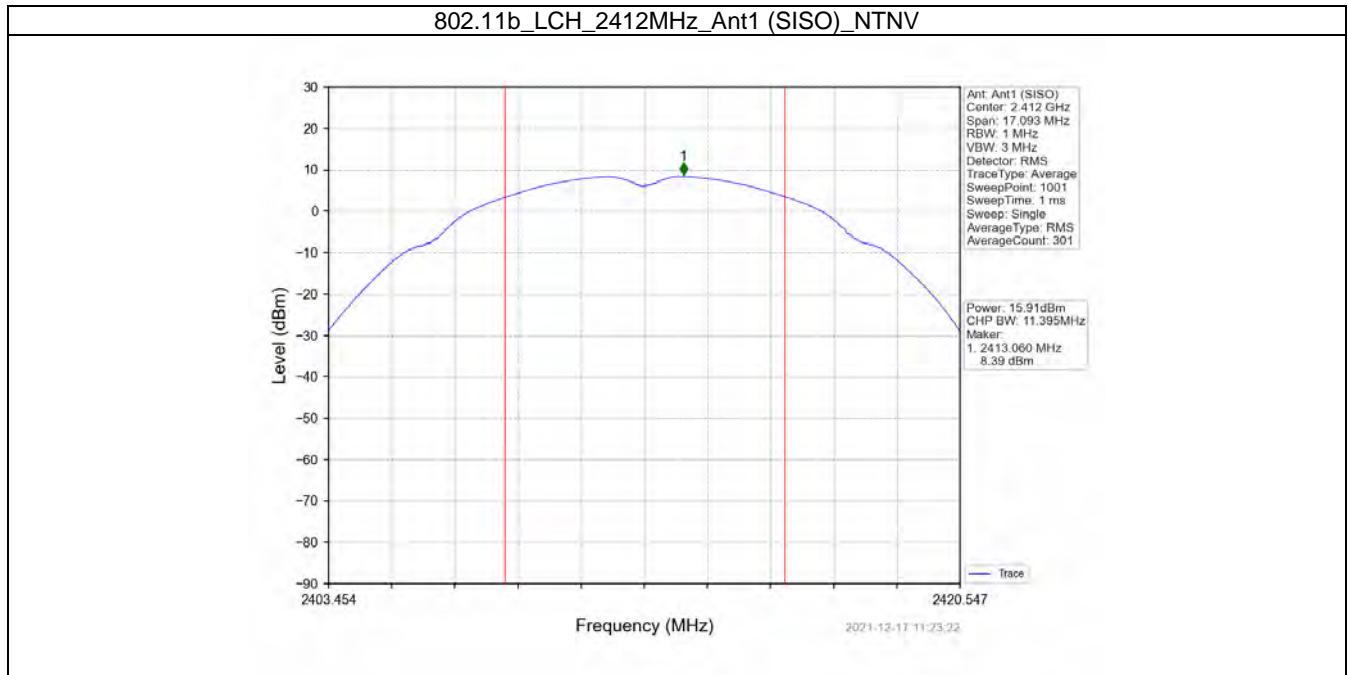
Note1: Antenna Gain: Ant1: 1.68dBi; Ant2: 3.42dBi;  
Note2: Directional Gain: 5.60dBi



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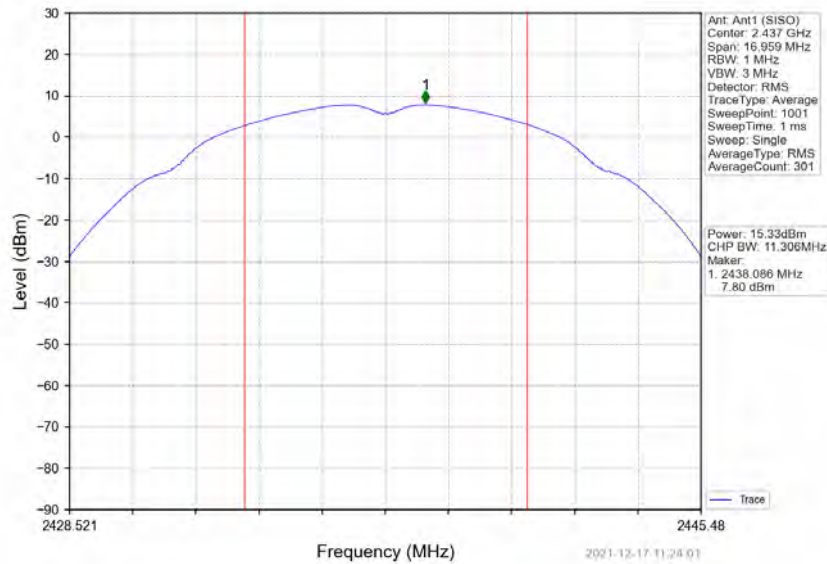
3.1.2 Test Graph



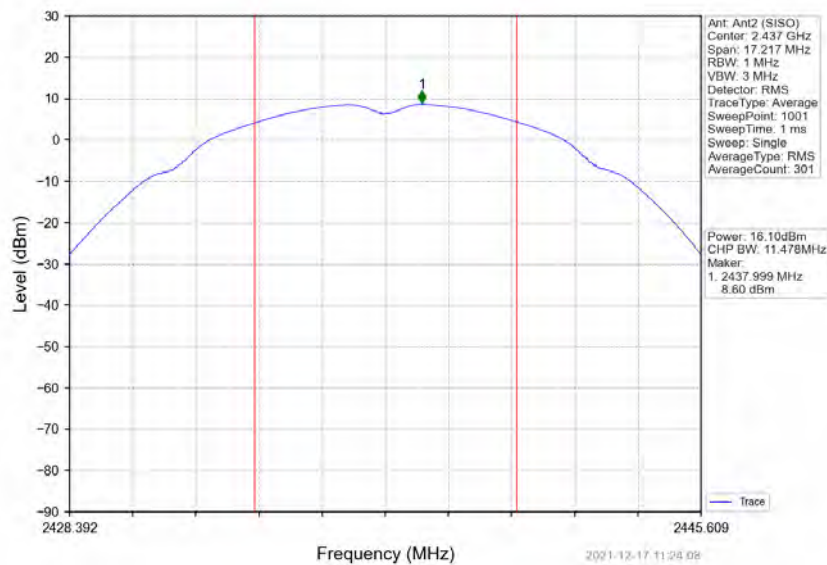
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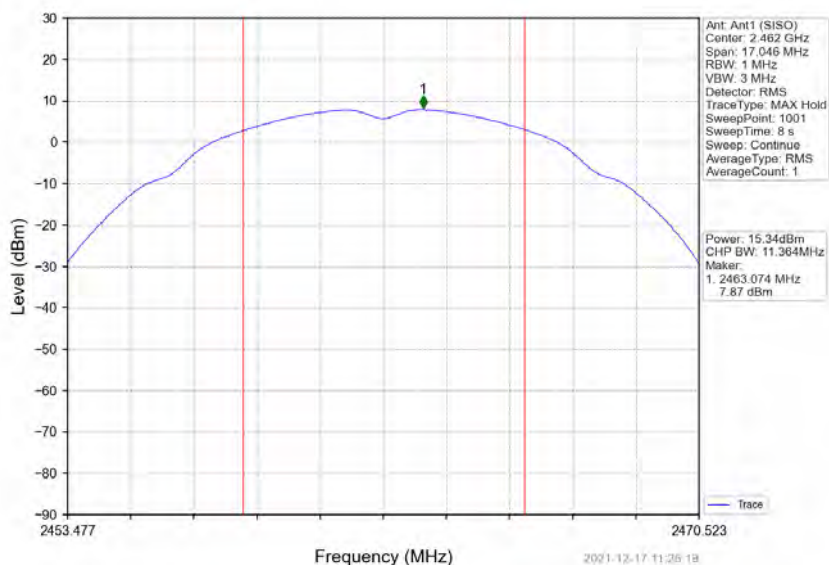
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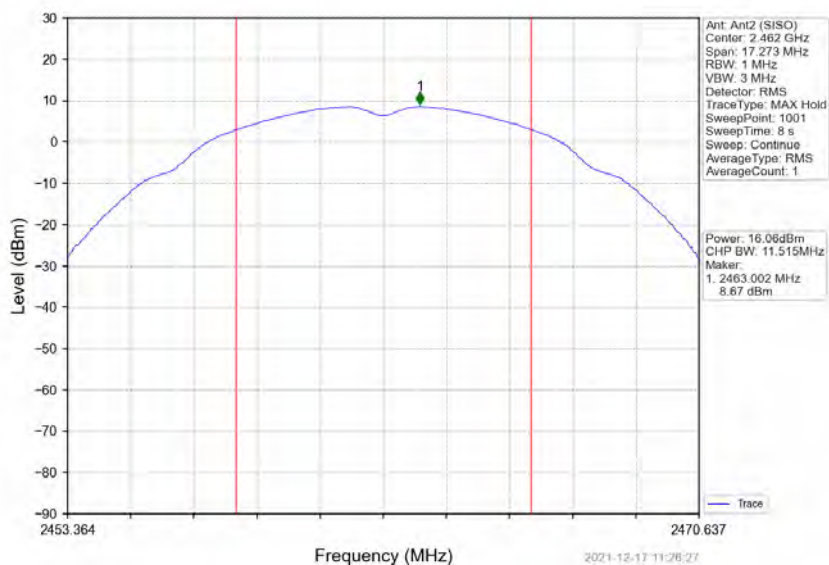
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802.11b\_HCH\_2462MHz\_Ant2 (SISO)\_NTNV



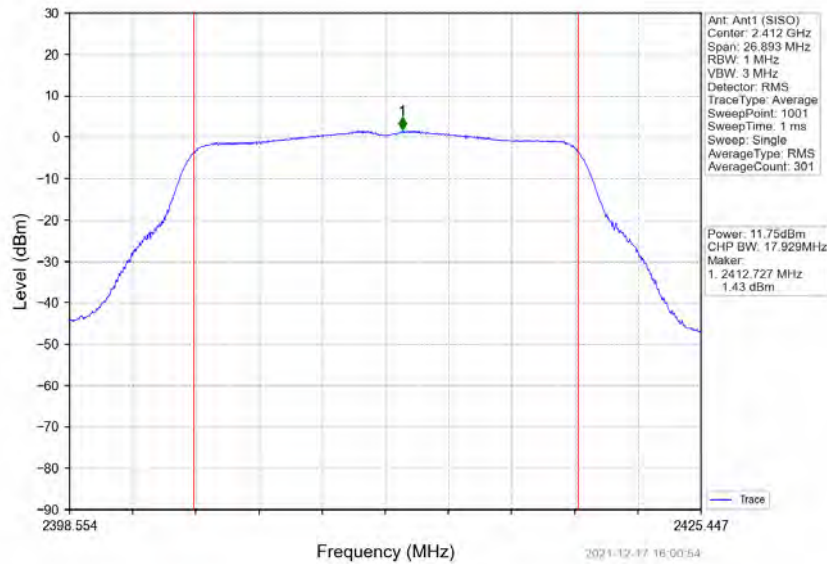
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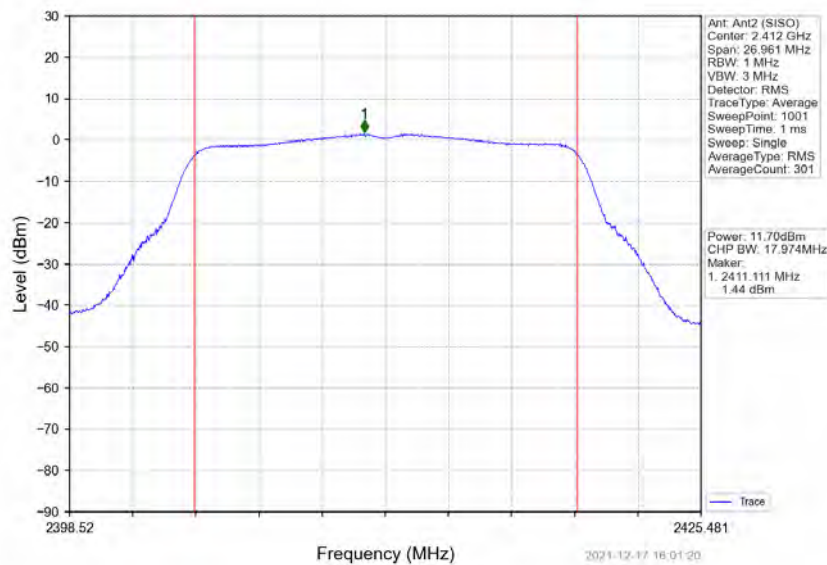
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802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



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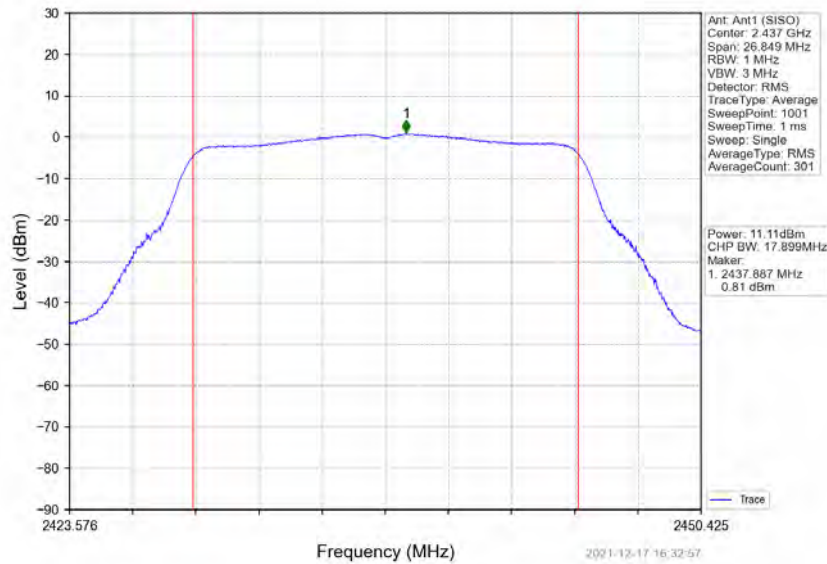
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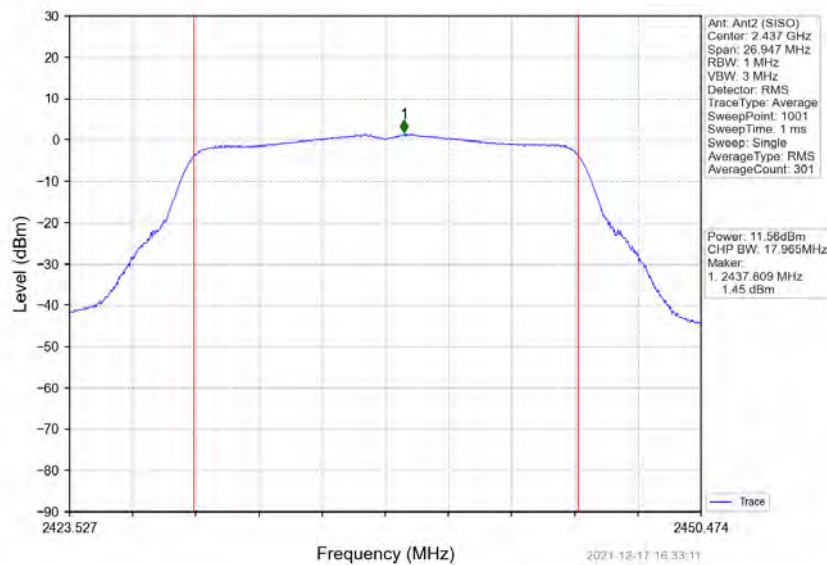


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



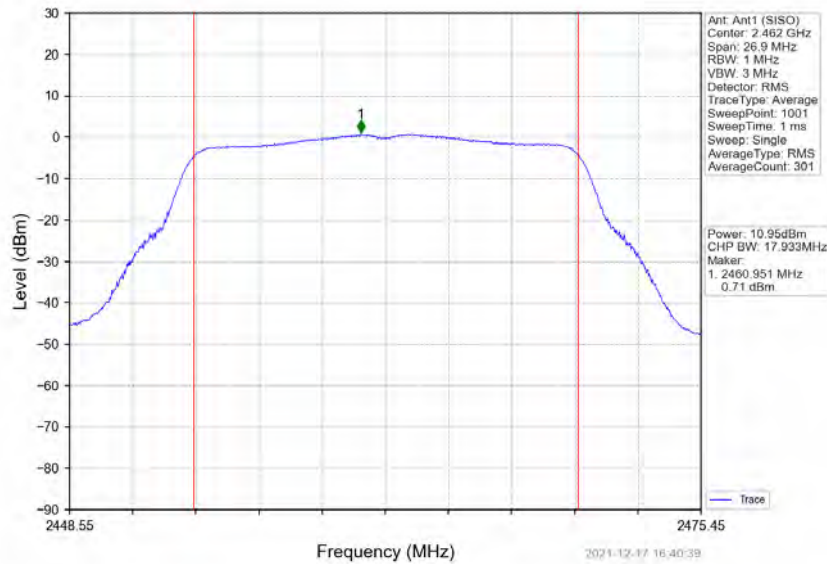
802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



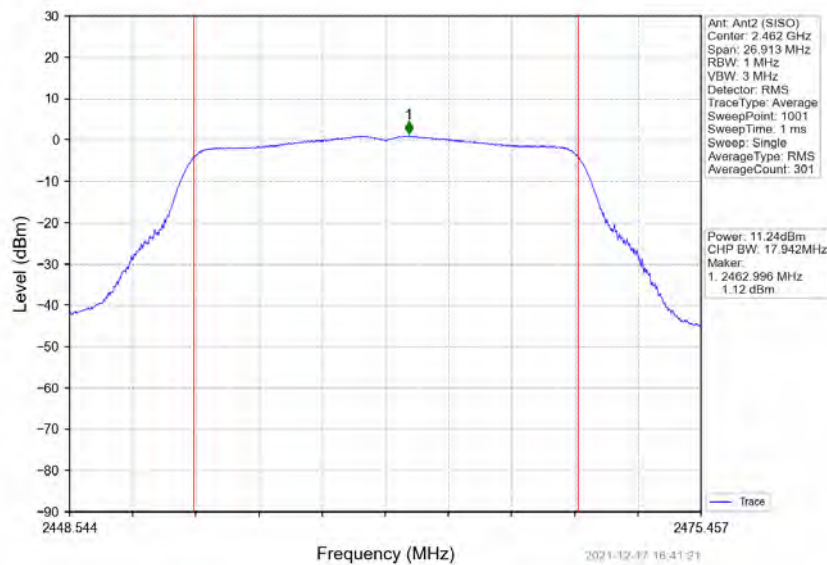
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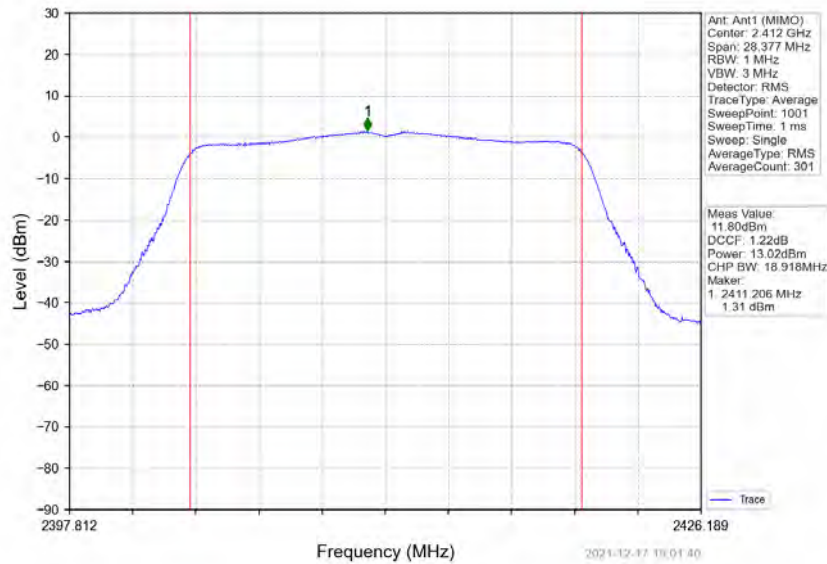
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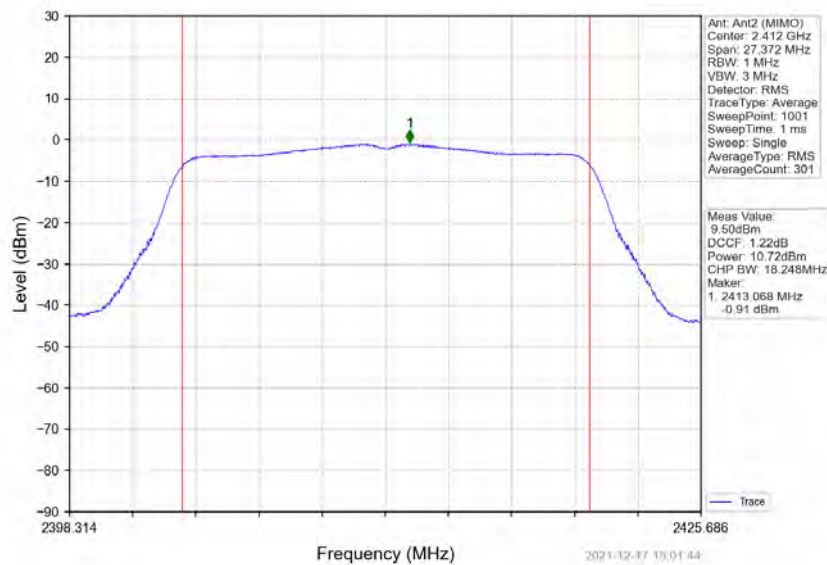
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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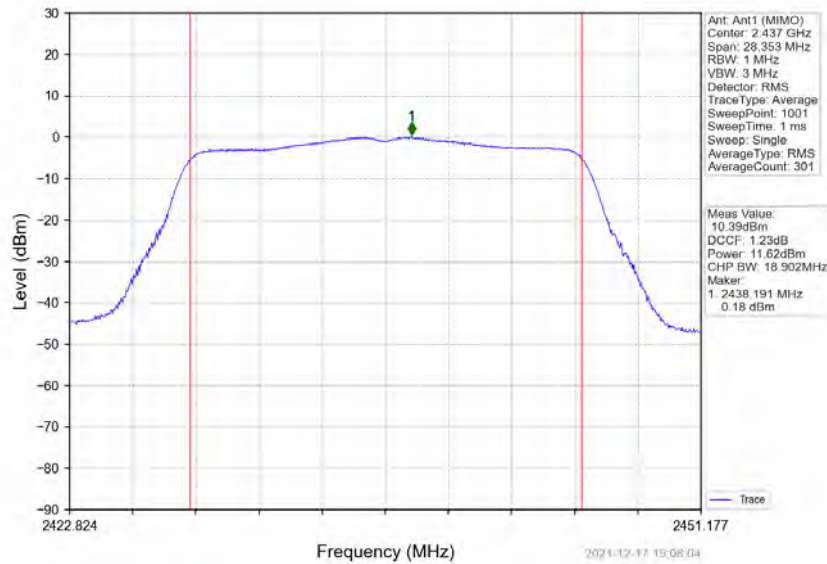
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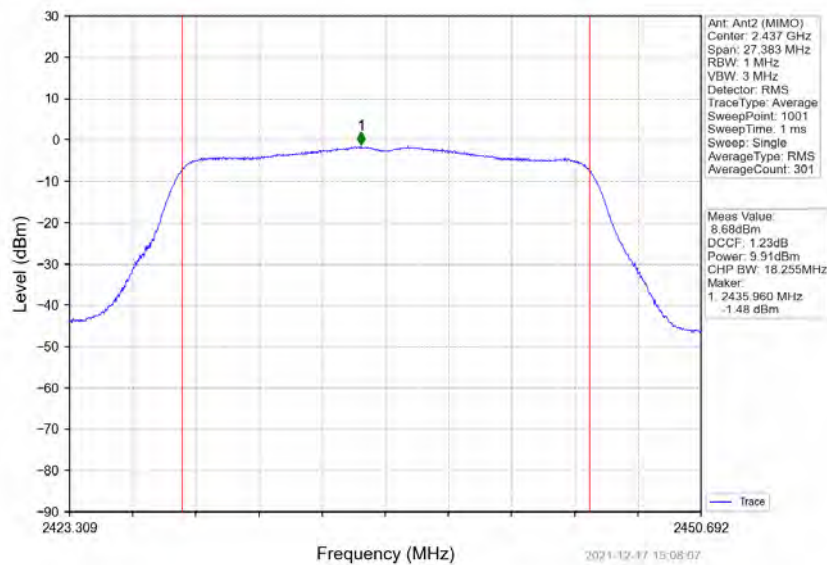




802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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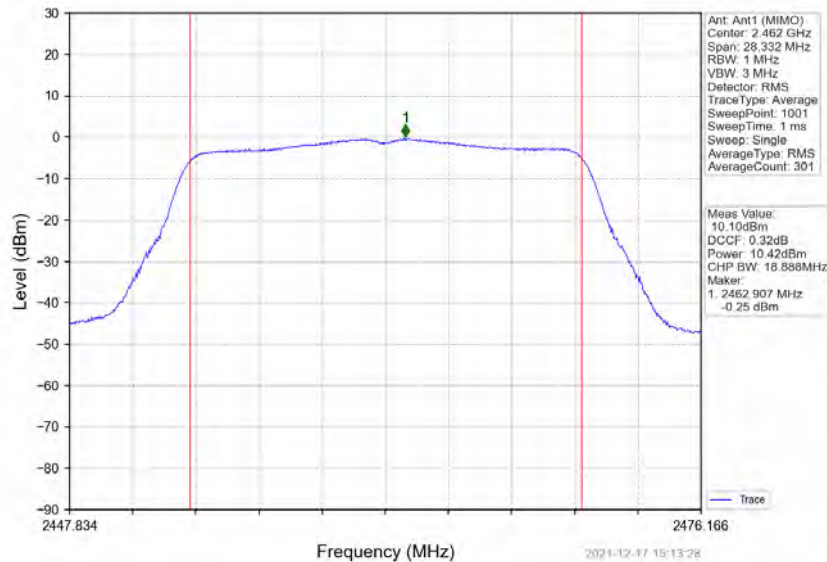
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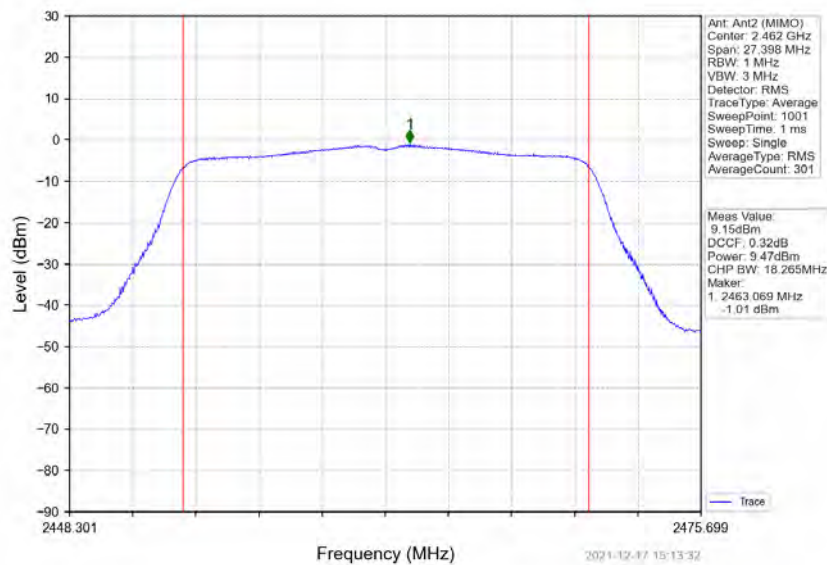
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## 4. Maximum Power Spectral Density

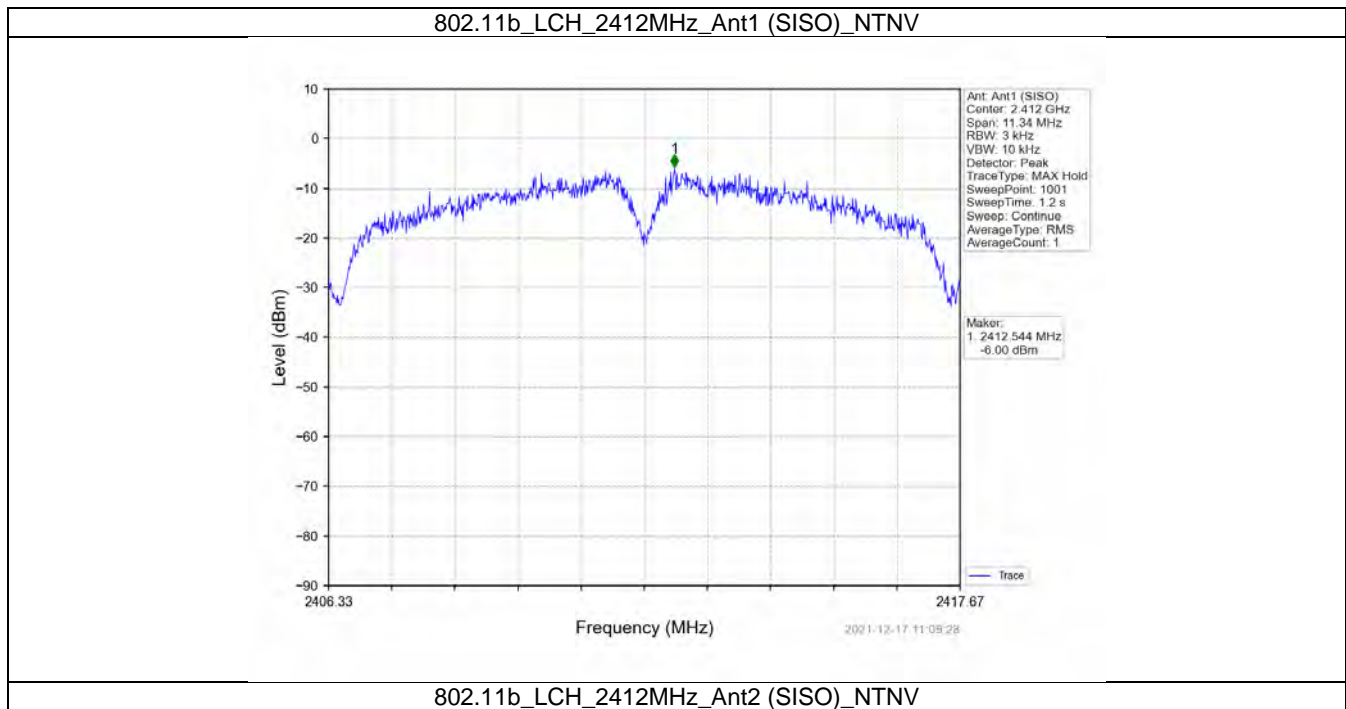
### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-6.00	-6.03	/	<=8	Pass
		2437	-5.15	-5.77	/	<=8	Pass
		2462	-6.73	-6.52	/	<=8	Pass
802.11g	SISO	2412	-12.22	-12.06	/	<=8	Pass
		2437	-13.36	-12.36	/	<=8	Pass
		2462	-13.52	-13.13	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-12.59	-14.72	-11.20	<=8	Pass
		2437	-12.61	-14.34	-10.97	<=8	Pass
		2462	-12.86	-14.14	-11.57	<=8	Pass

Note1: Antenna Gain: Ant1: 1.68dBi; Ant2: 3.42dBi;

#### 4.1.2 Test Graph

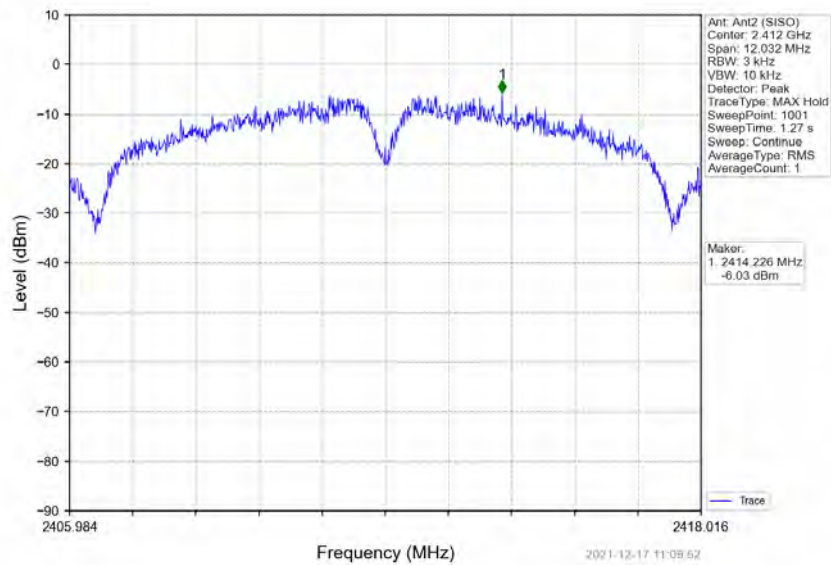


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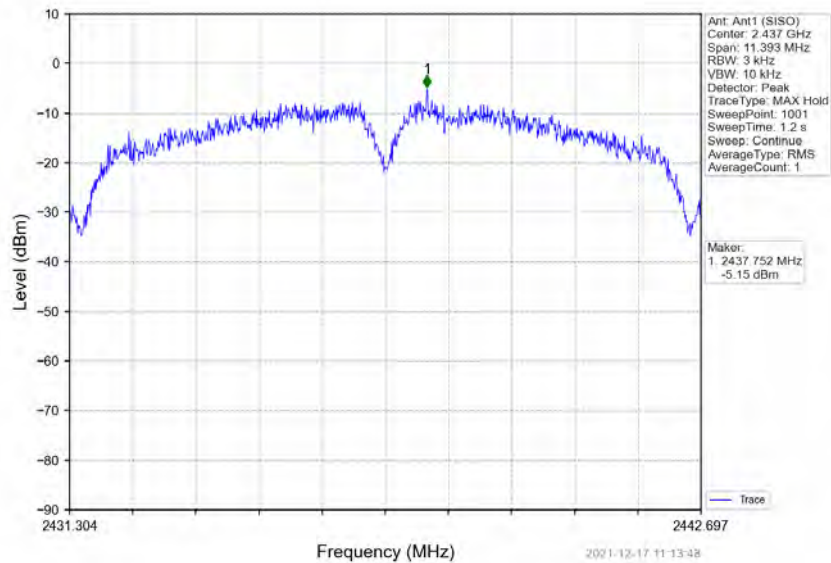
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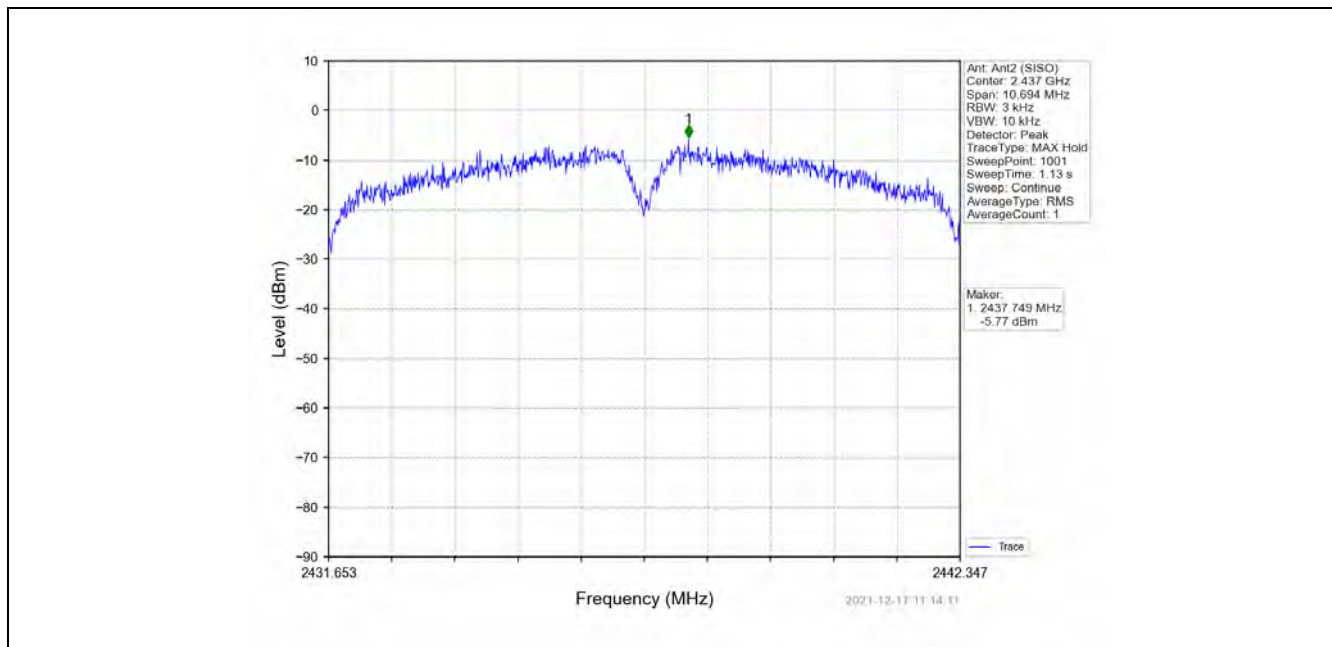


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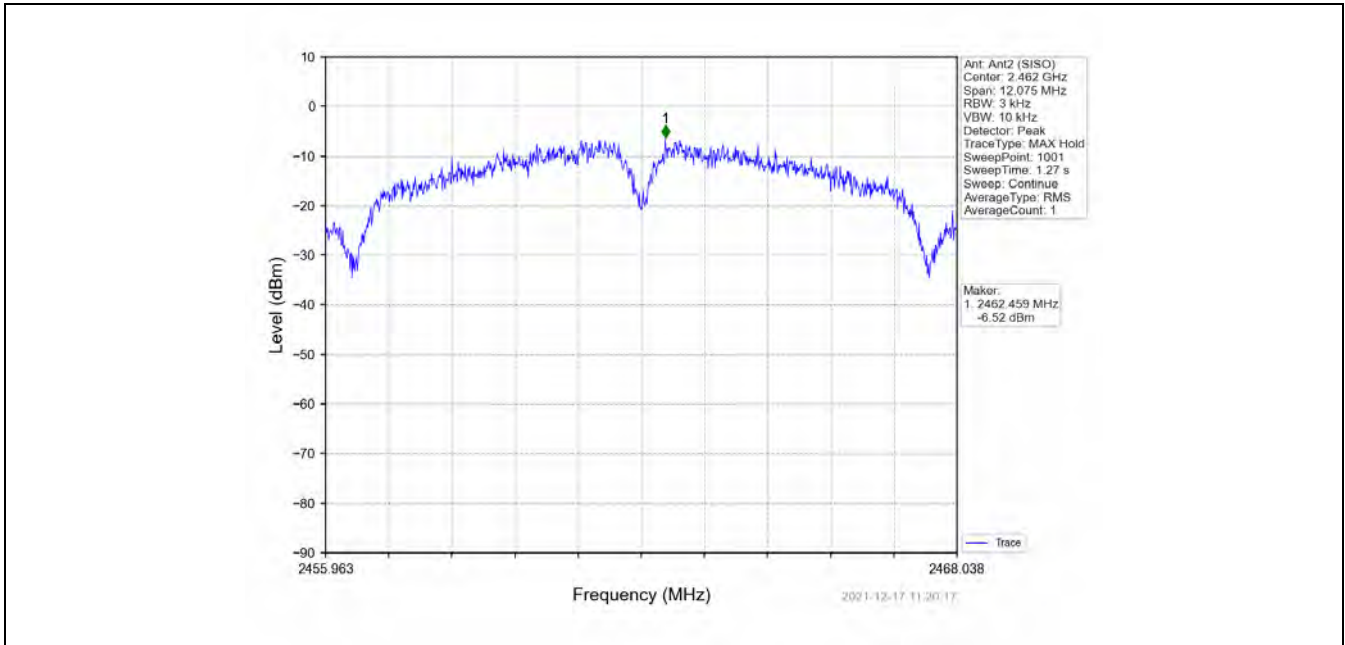


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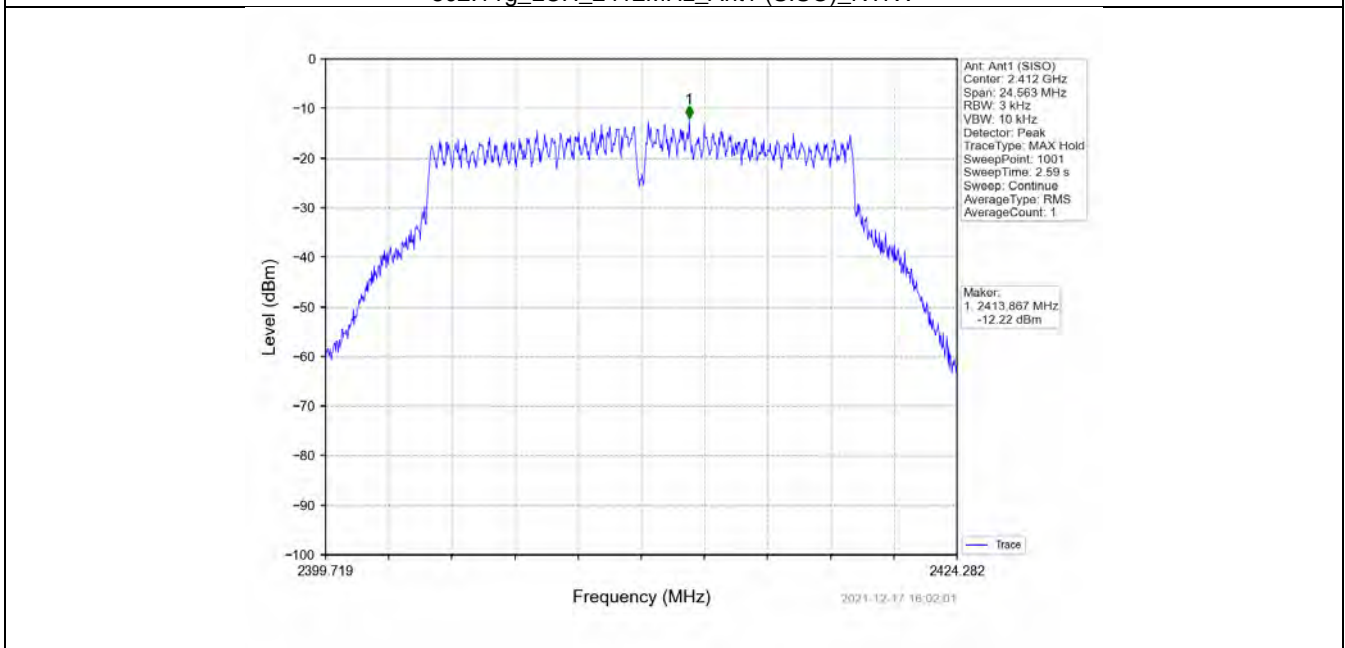


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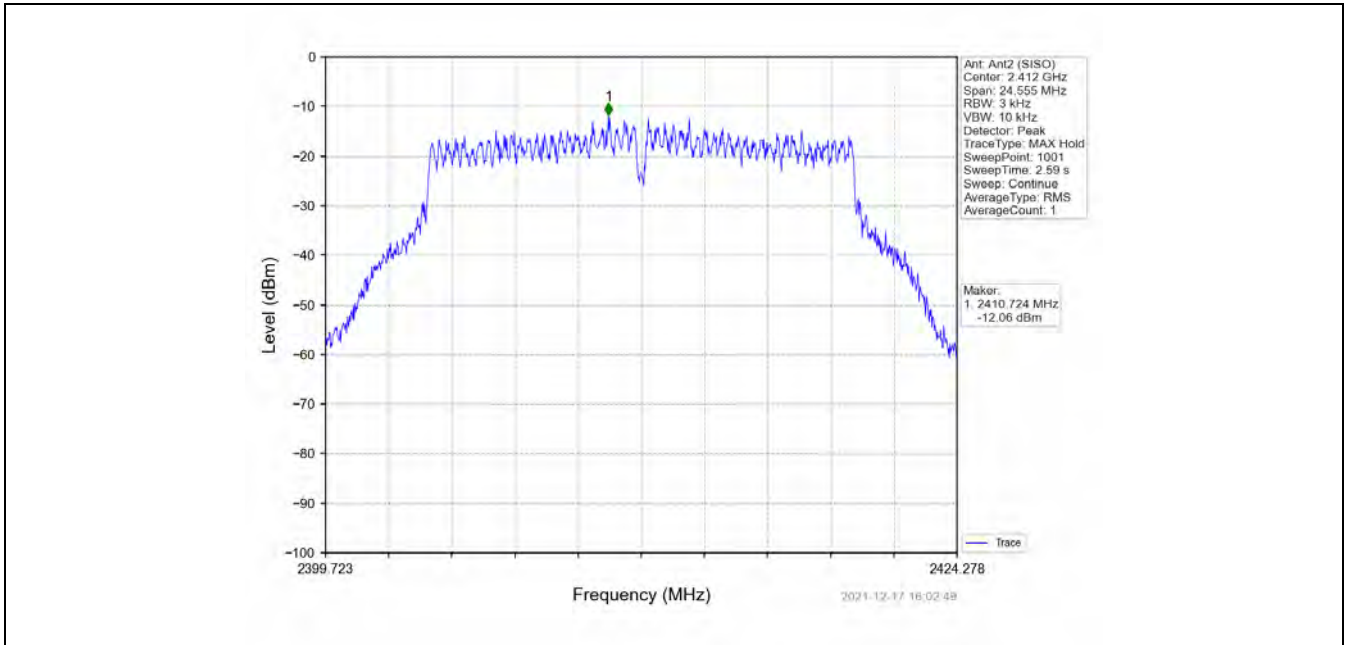
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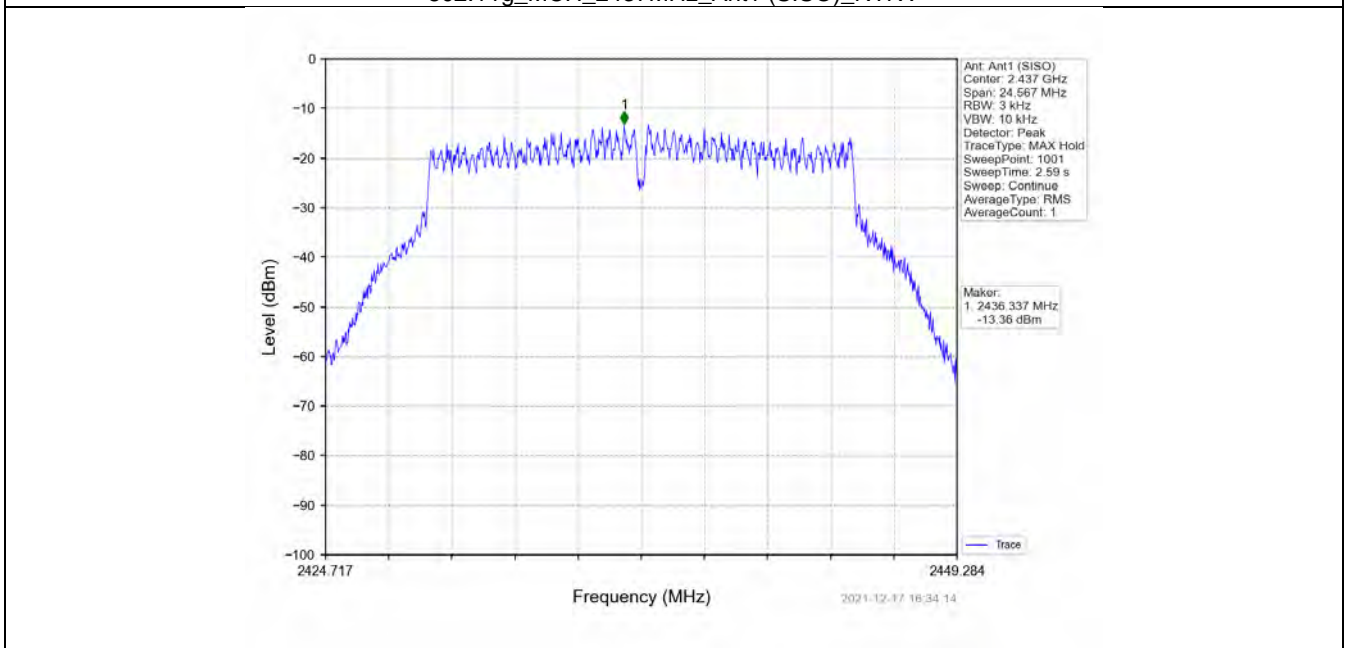
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

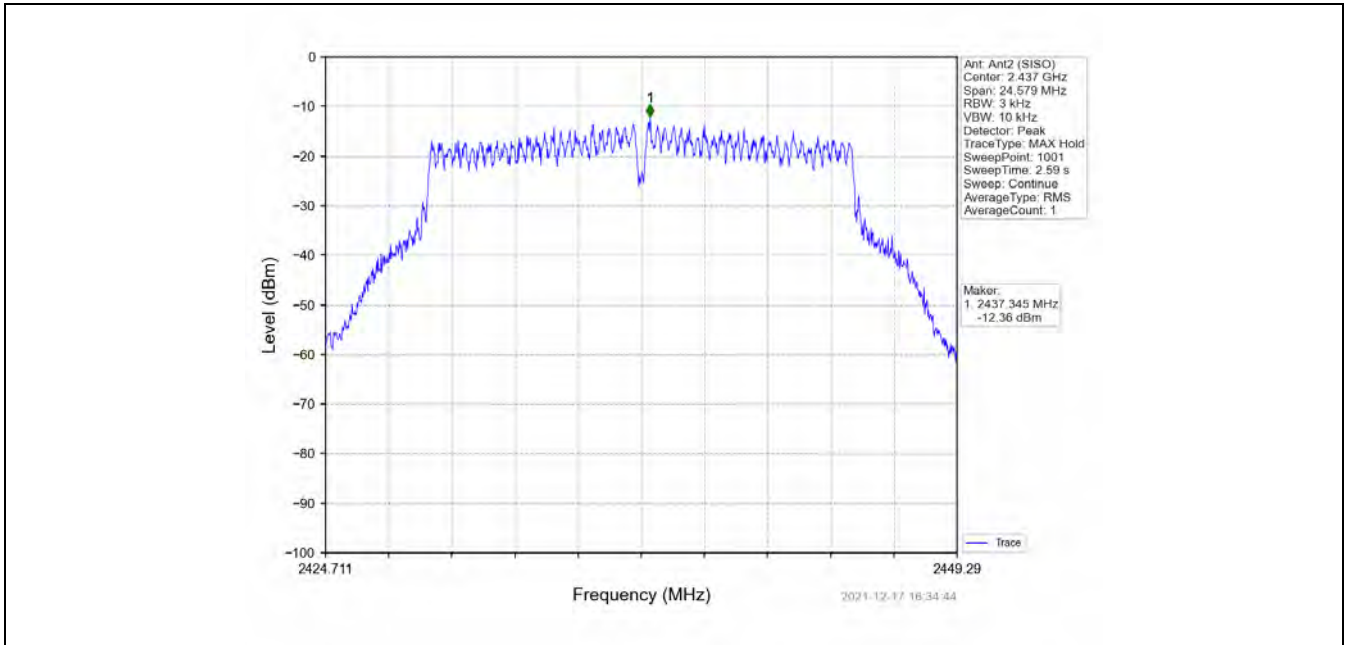


802.11g\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

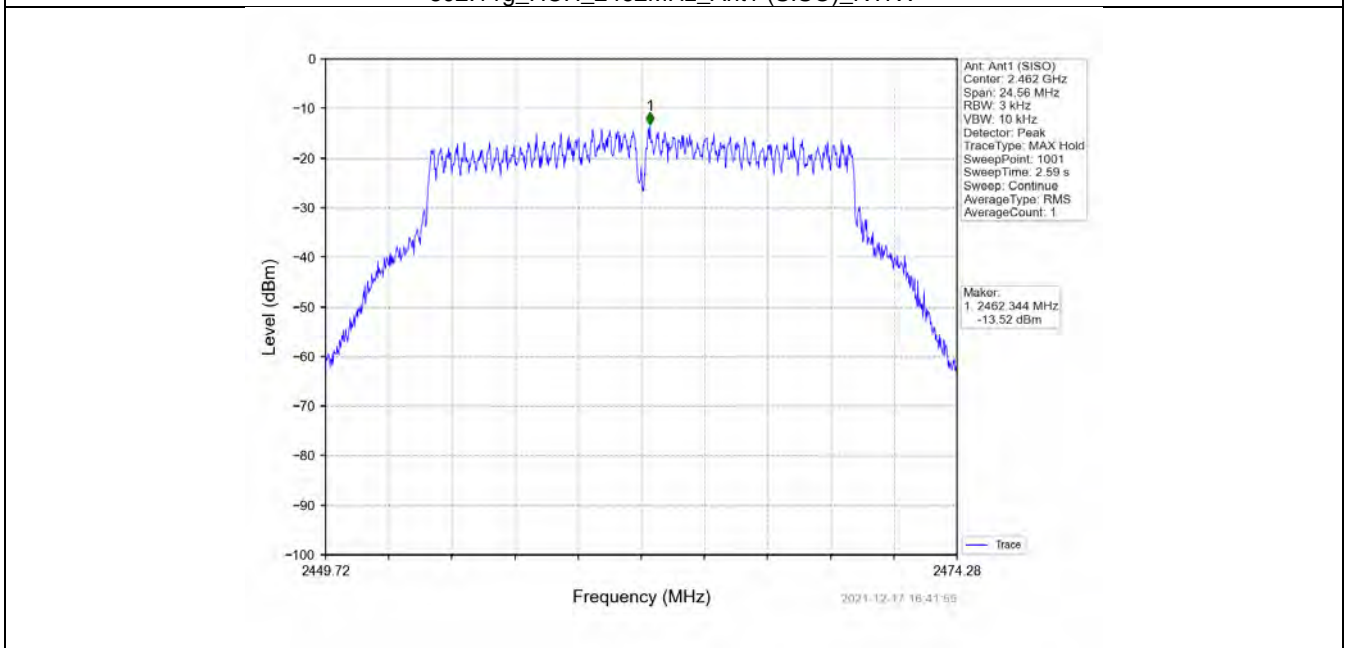


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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



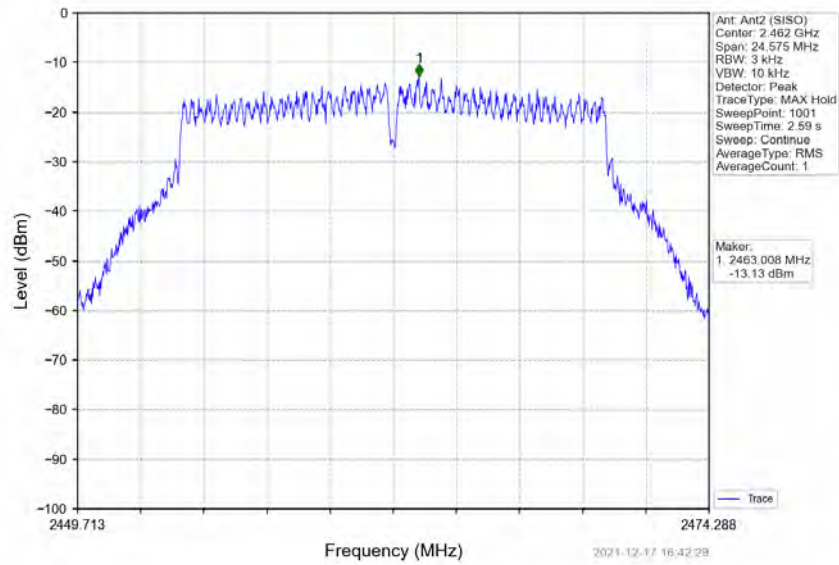
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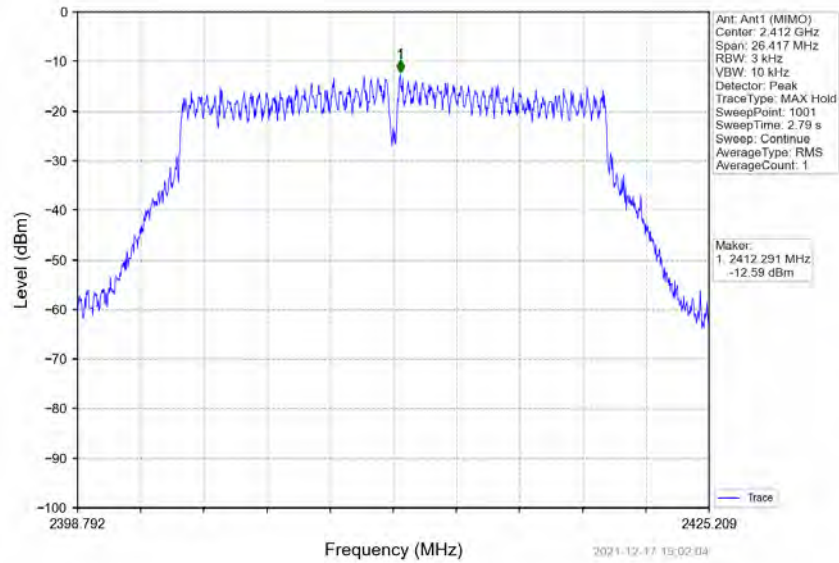
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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

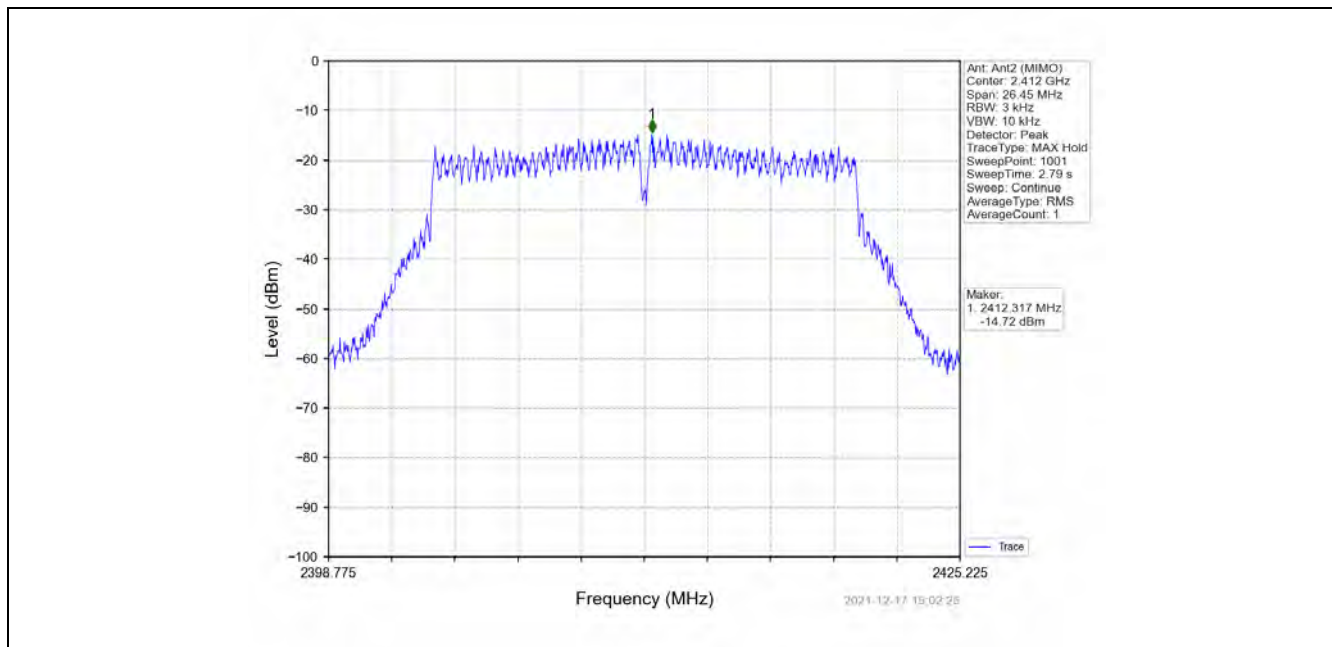
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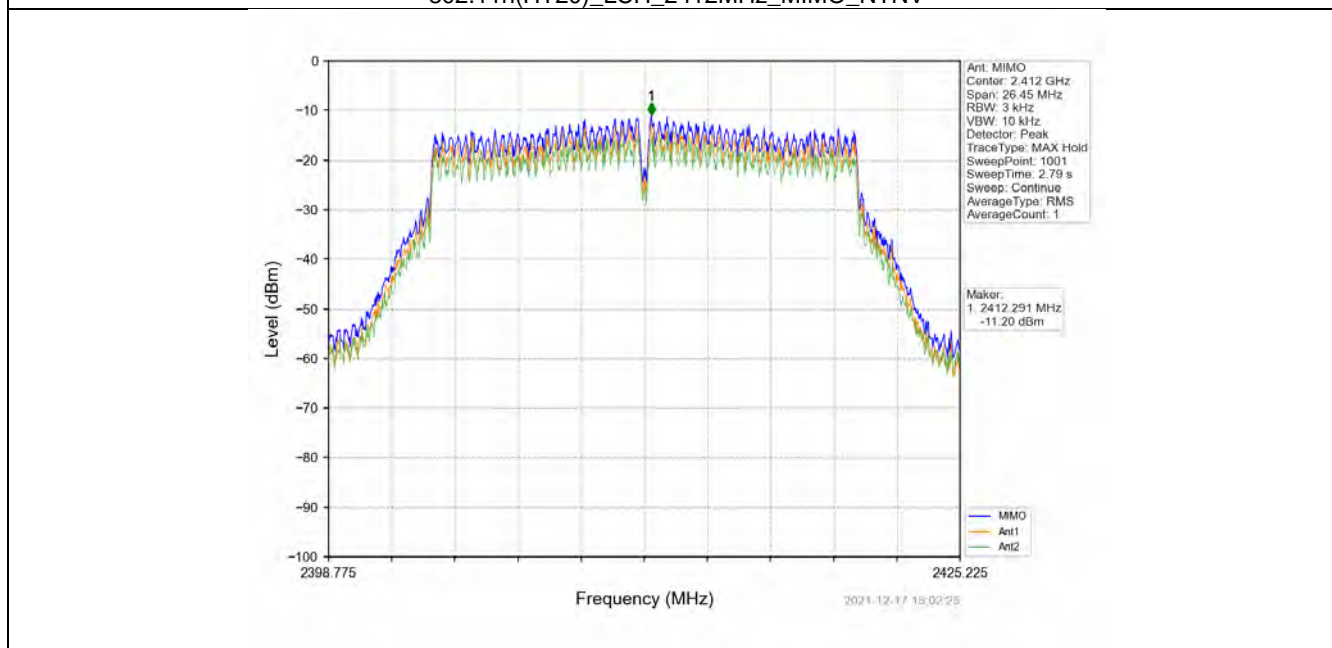
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802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV

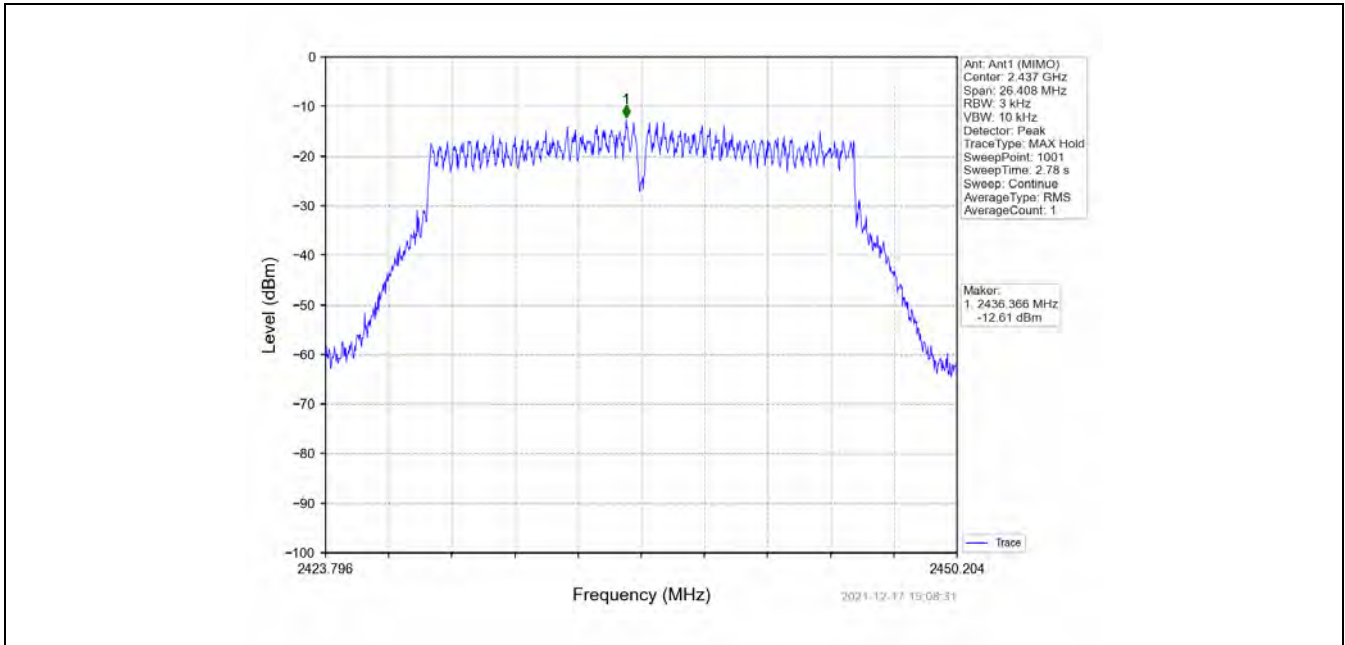


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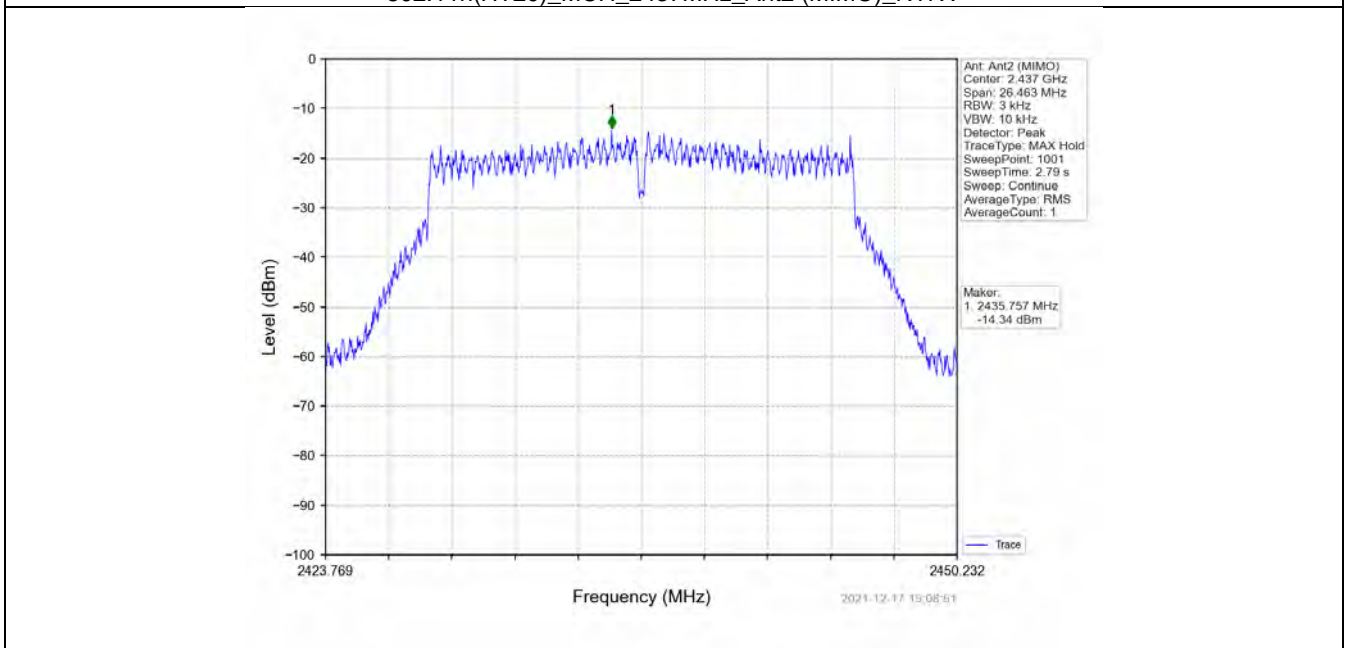


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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

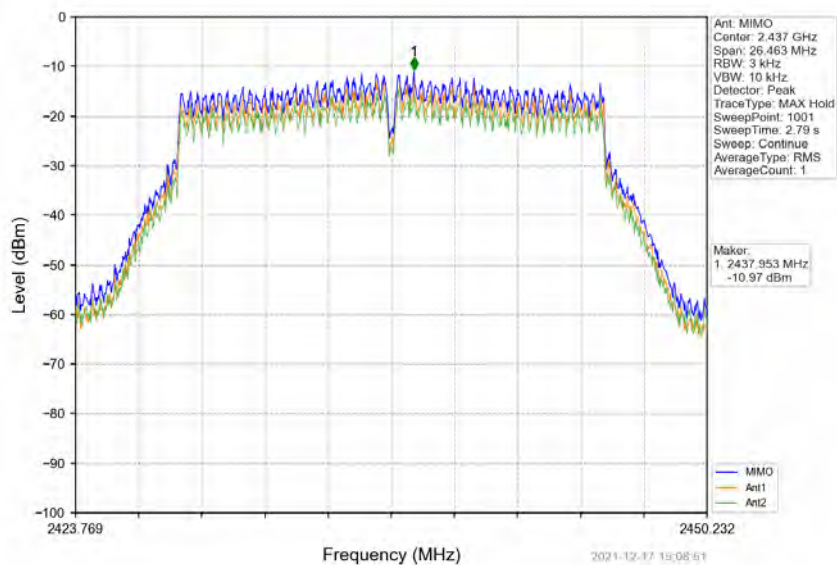


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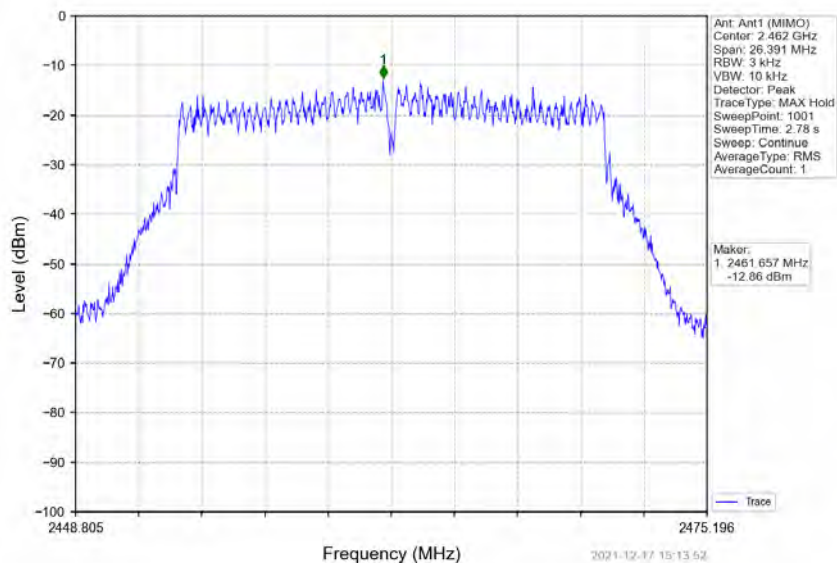


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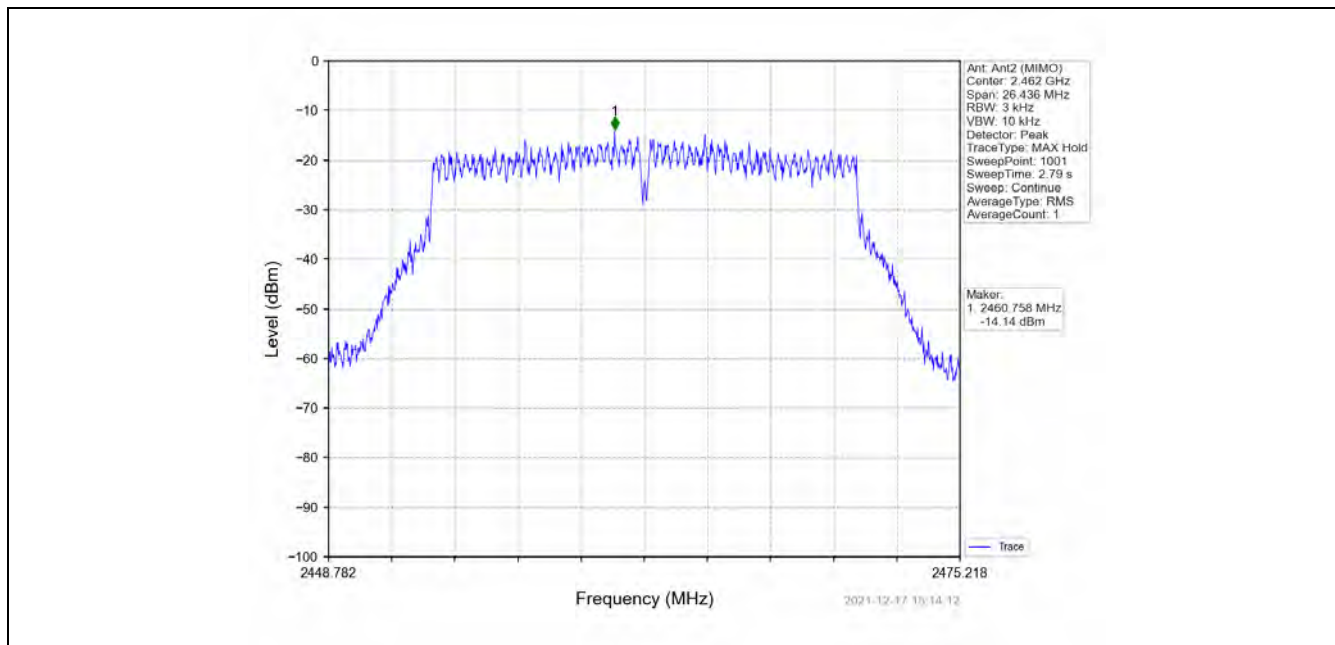


802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

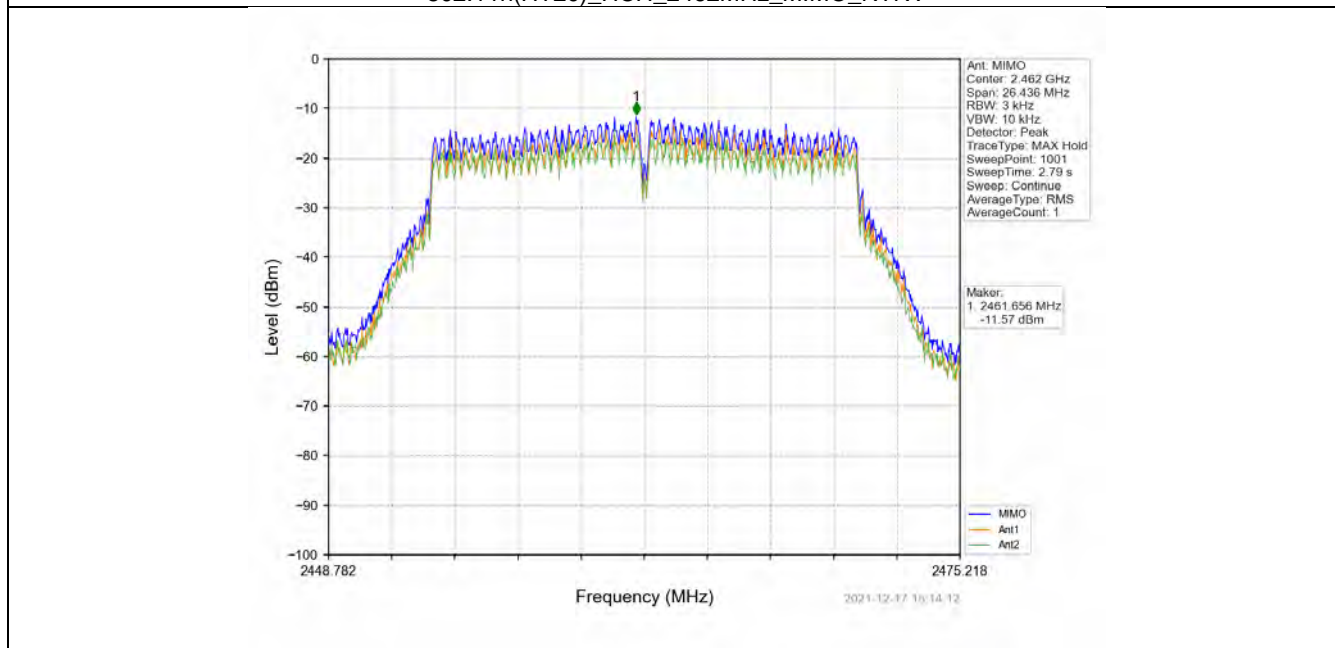


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802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



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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	8.23
			2	8.52
		2437	1	7.39
			2	8.25
		2462	1	8.06
			2	8.44
802.11g	SISO	2412	1	-0.37
			2	-0.22
		2437	1	-0.71
			2	-0.63
		2462	1	-0.76
			2	-0.84
802.11n (HT20)	MIMO	2412	1	0.34
			2	-1.40
		2437	1	-0.44
			2	-1.68
		2462	1	-0.66
			2	-2.09

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.

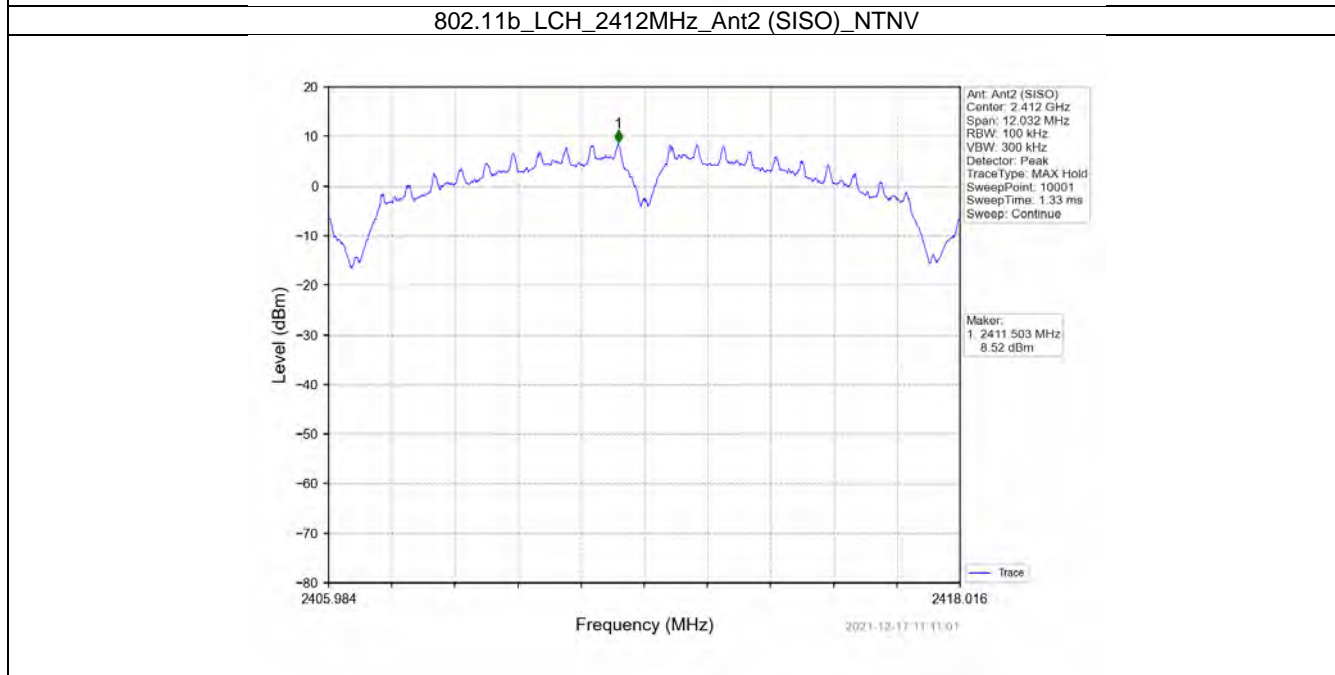
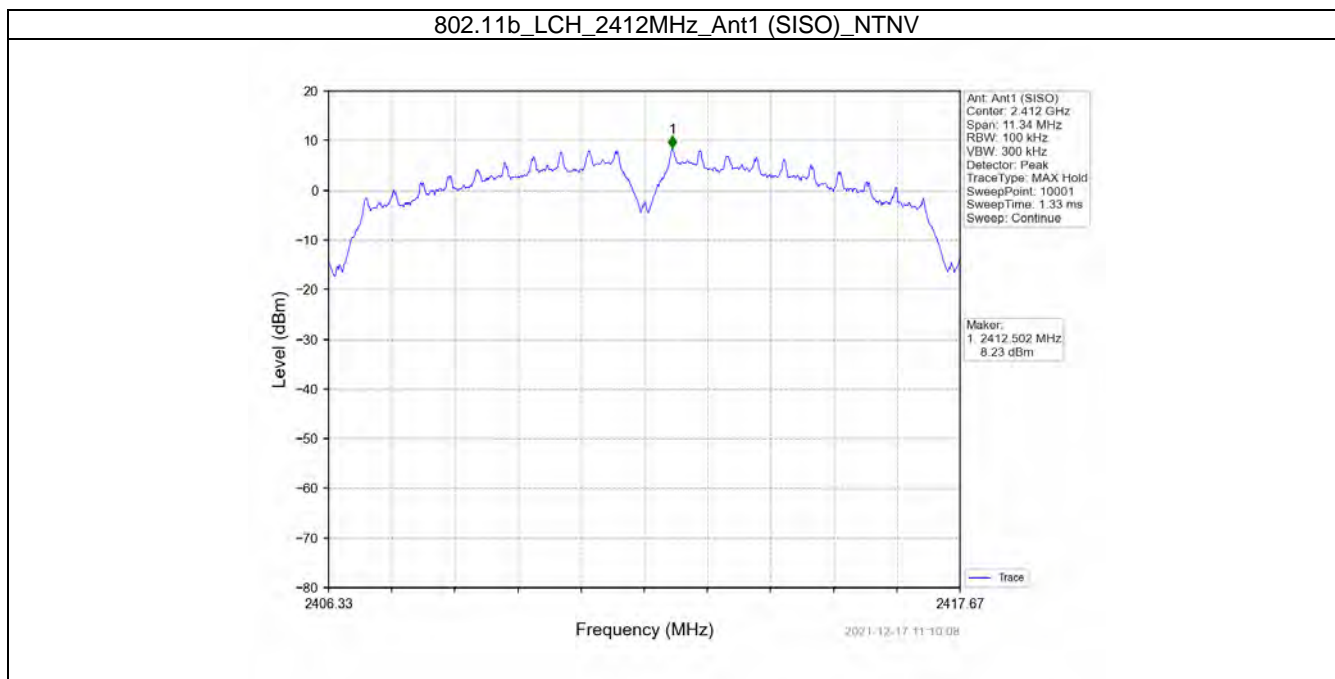


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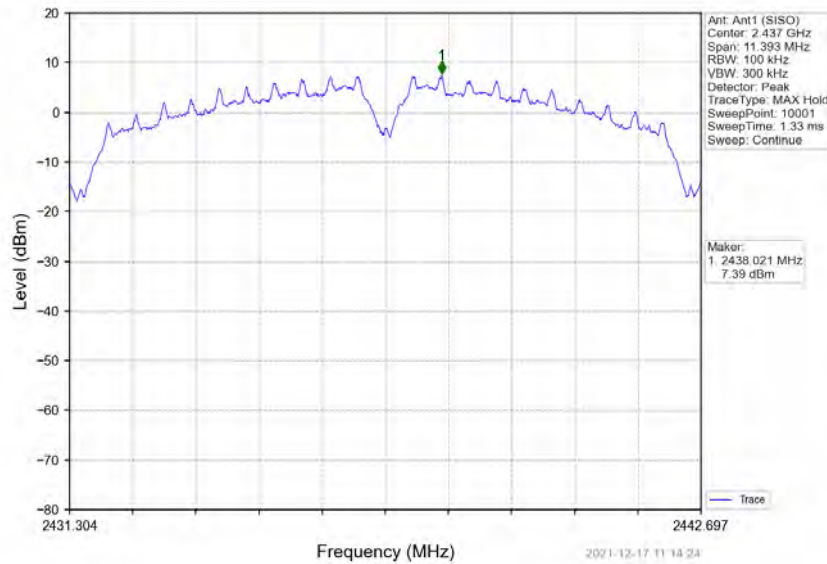
5.1.2 Test Graph



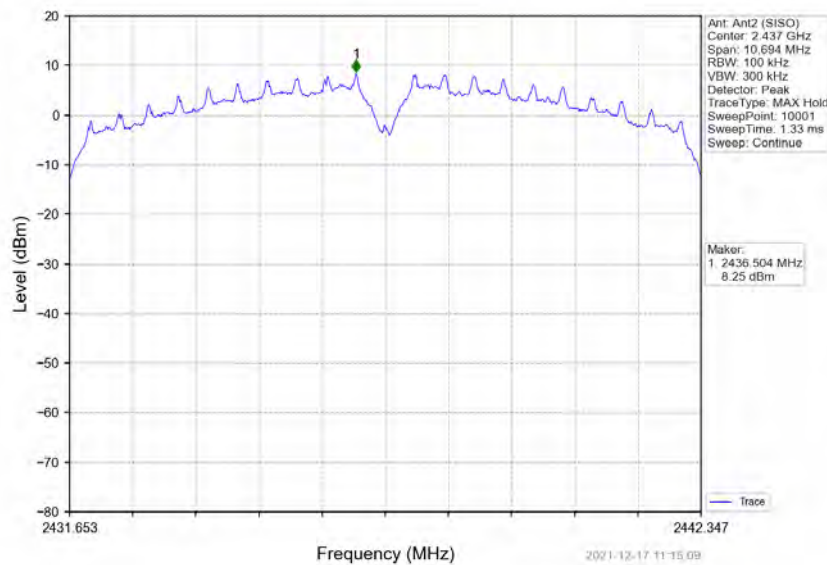
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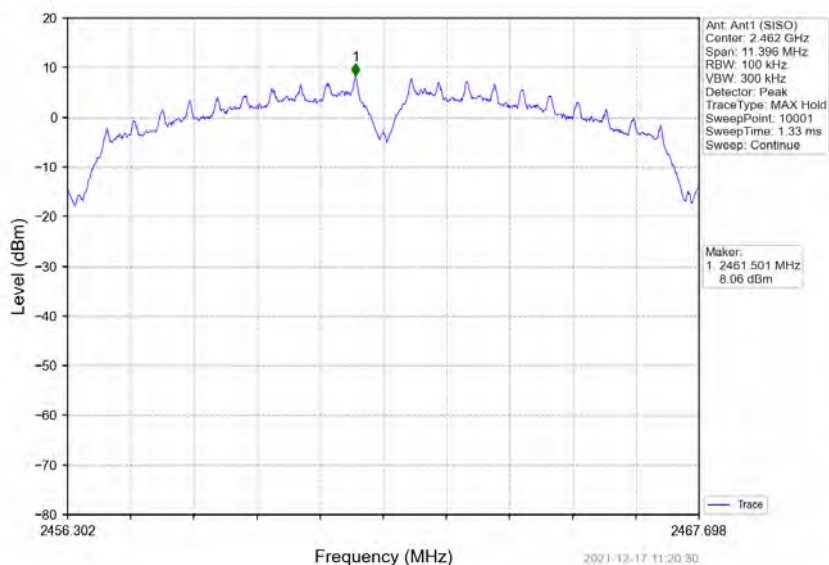
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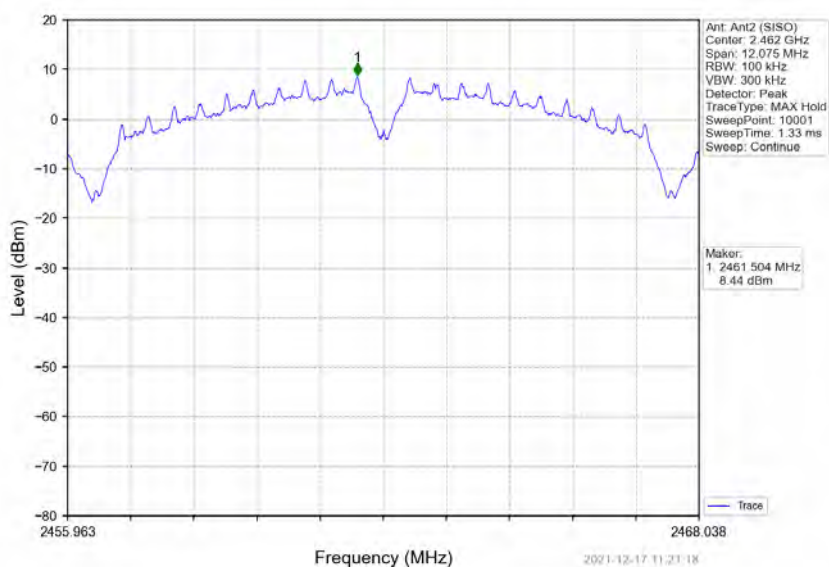




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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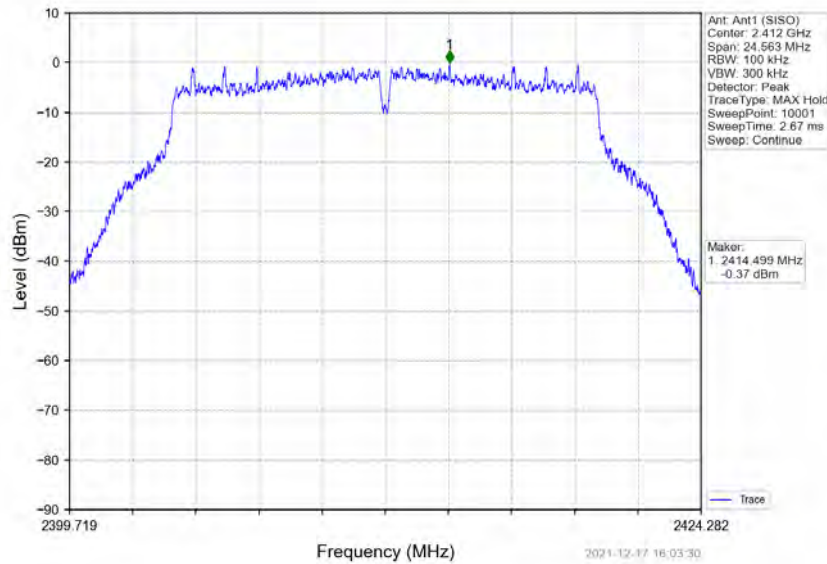
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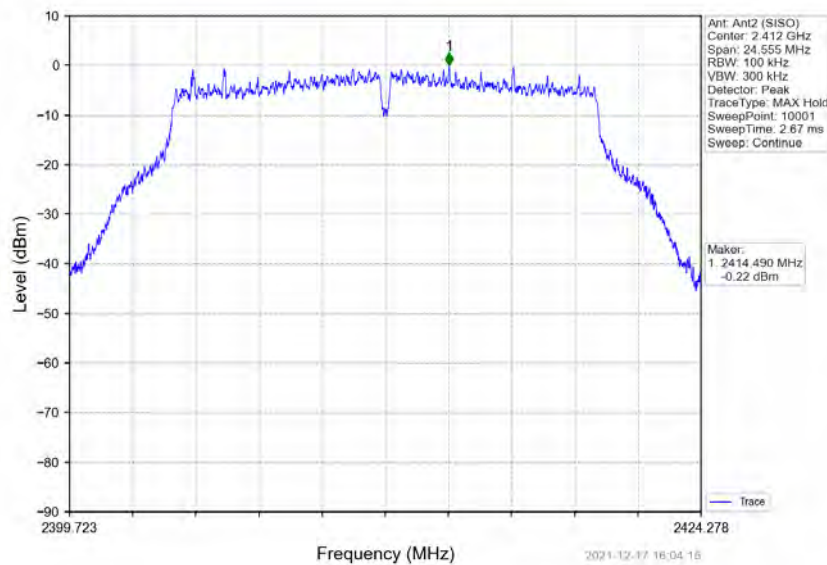
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802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



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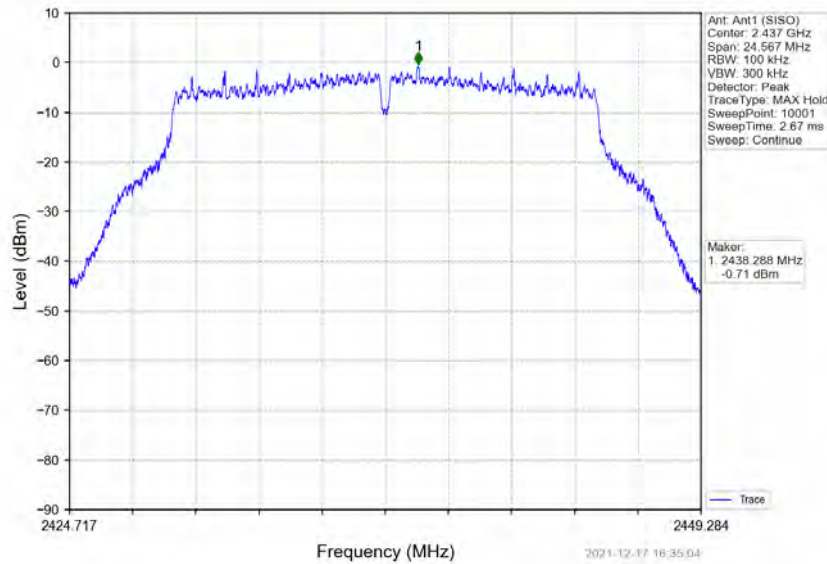
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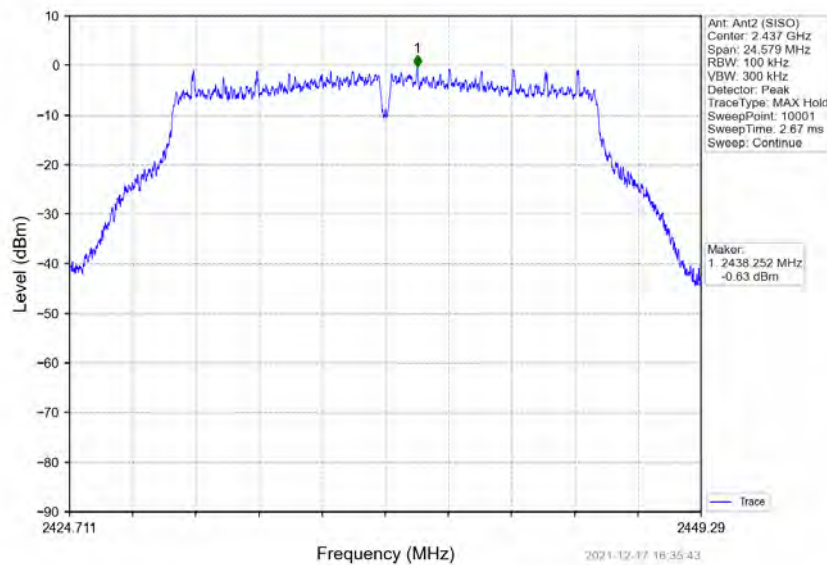
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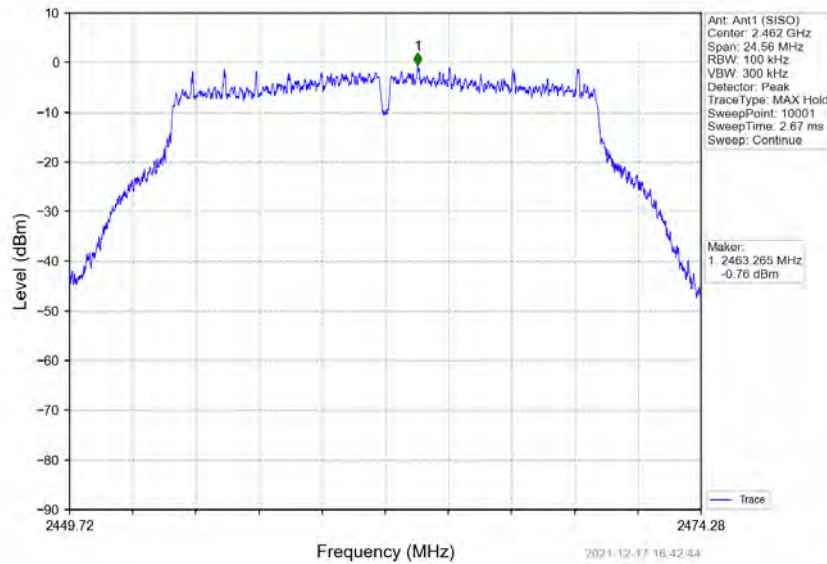
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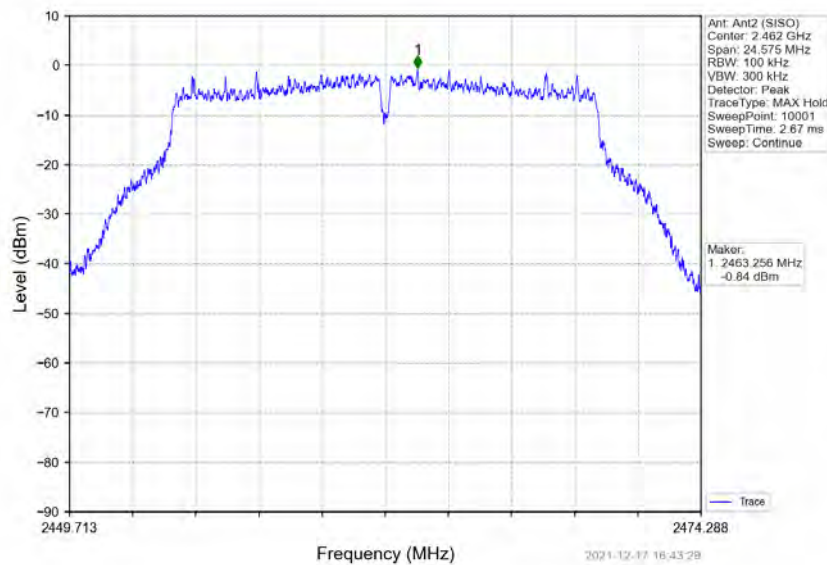
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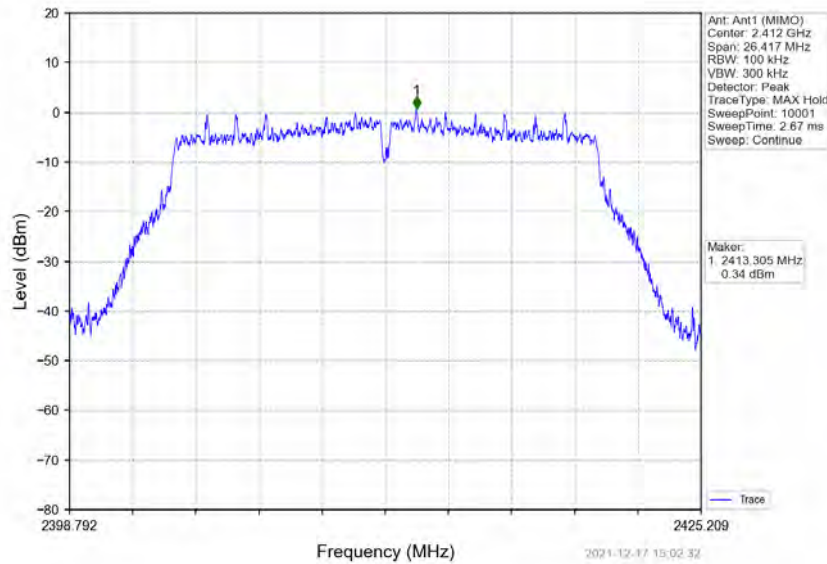
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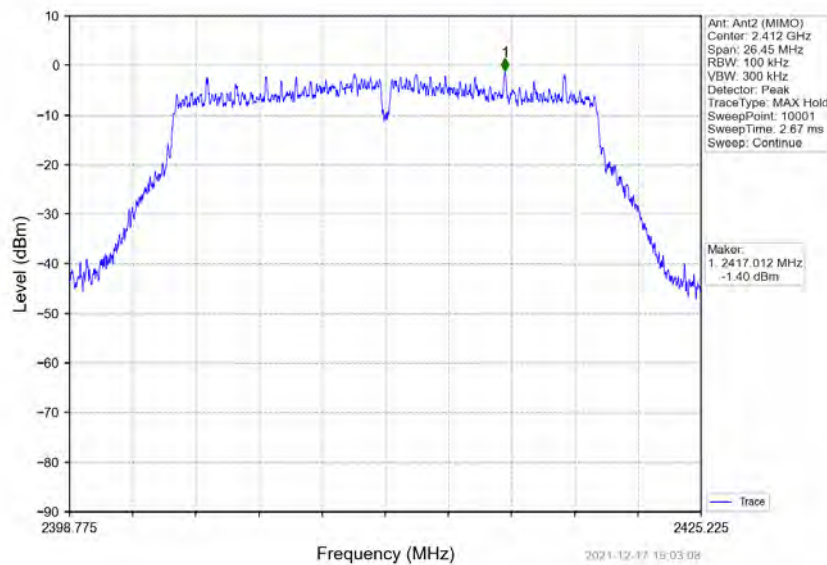
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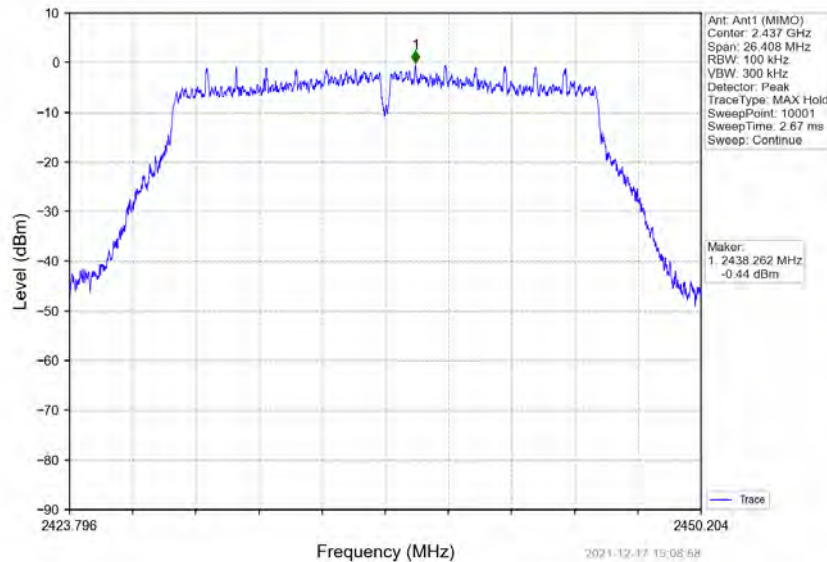
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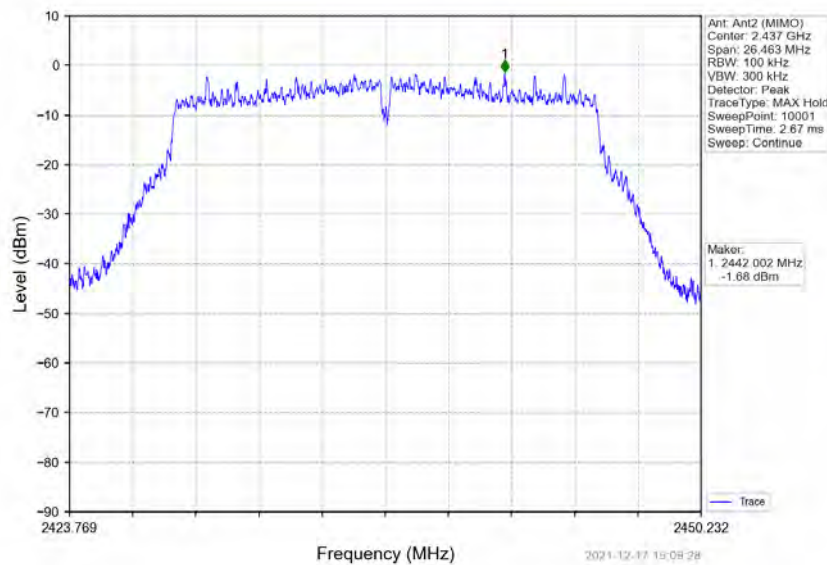
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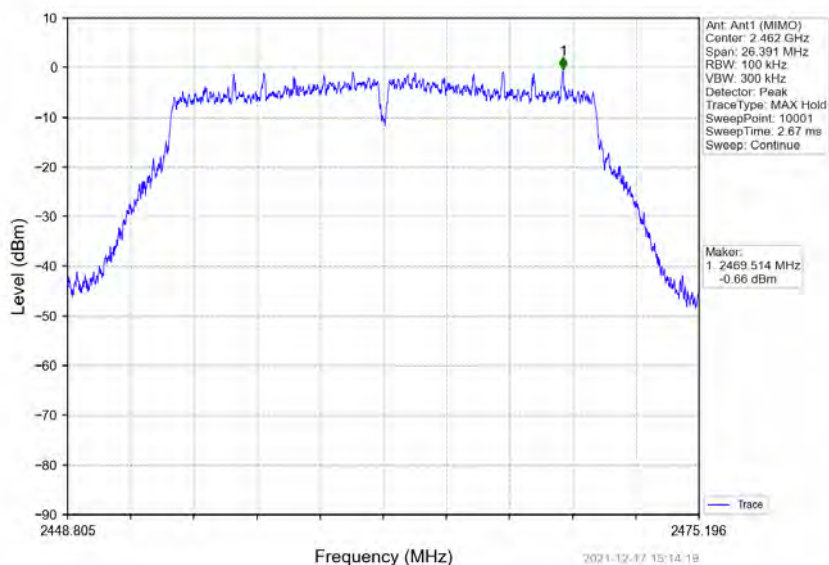
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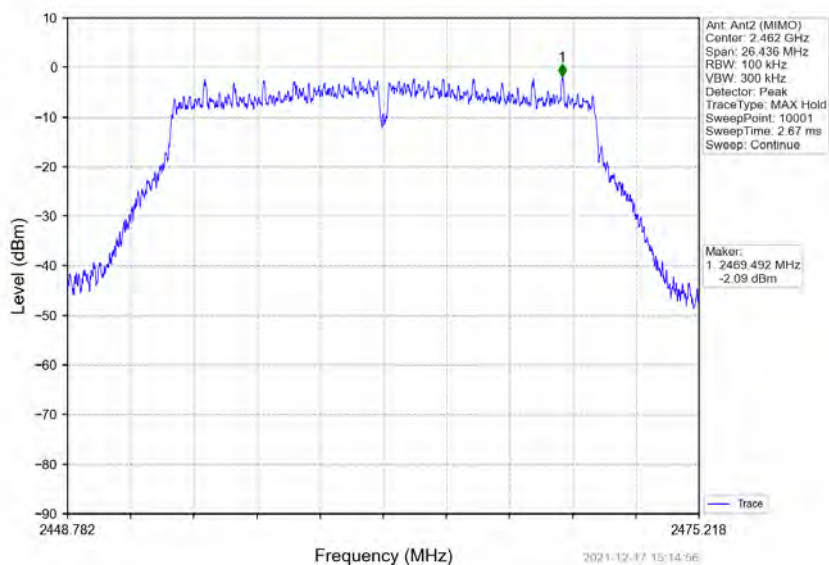
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.23	-21.77	Pass
			2	8.52	-21.48	Pass
		2437	1	8.23	-21.77	Pass
			2	8.52	-21.48	Pass
		2462	1	8.23	-21.77	Pass
			2	8.52	-21.48	Pass
802.11g	SISO	2412	1	-0.37	-30.37	Pass
			2	-0.22	-30.22	Pass
		2437	1	-0.37	-30.37	Pass
			2	-0.22	-30.22	Pass
		2462	1	-0.37	-30.37	Pass
			2	-0.22	-30.22	Pass
802.11n (HT20)	MIMO	2412	1	0.34	-29.66	Pass
			2	-1.40	-31.40	Pass
		2437	1	0.34	-29.66	Pass
			2	-1.40	-31.40	Pass
		2462	1	0.34	-29.66	Pass
			2	-1.40	-31.40	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.



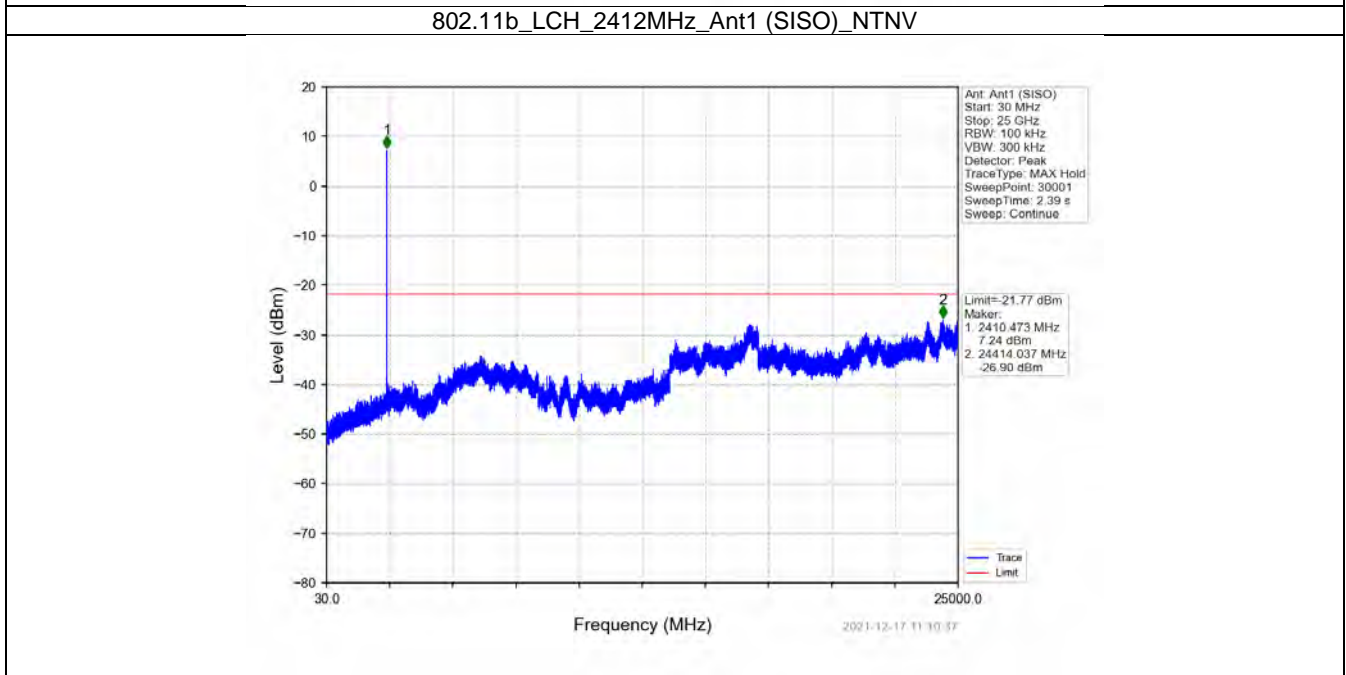
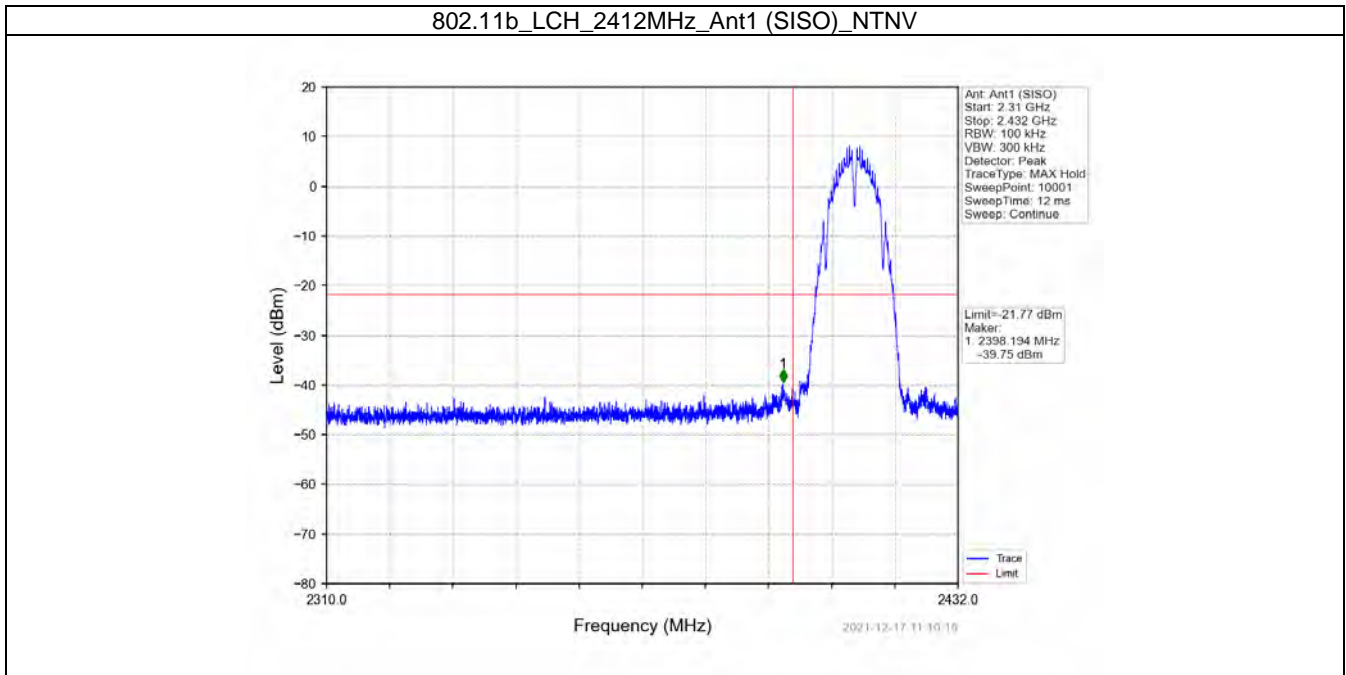
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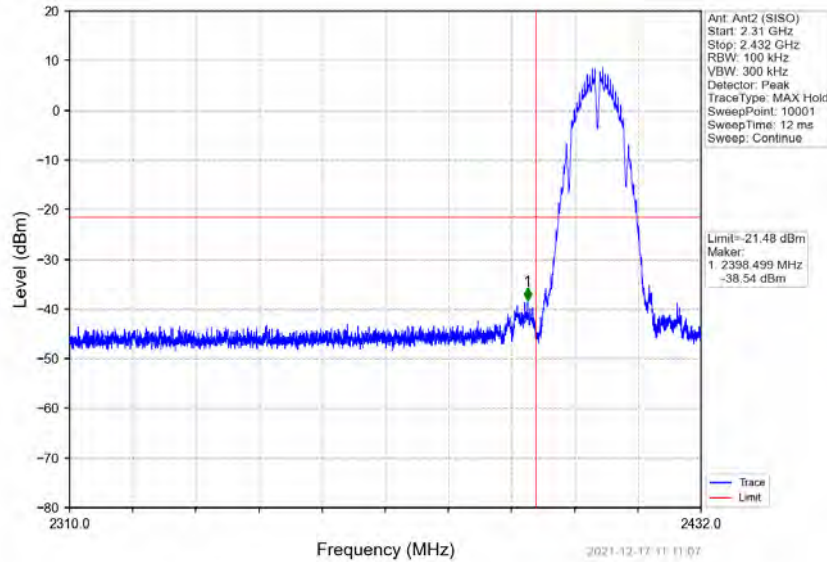
5.2.2 Test Graph



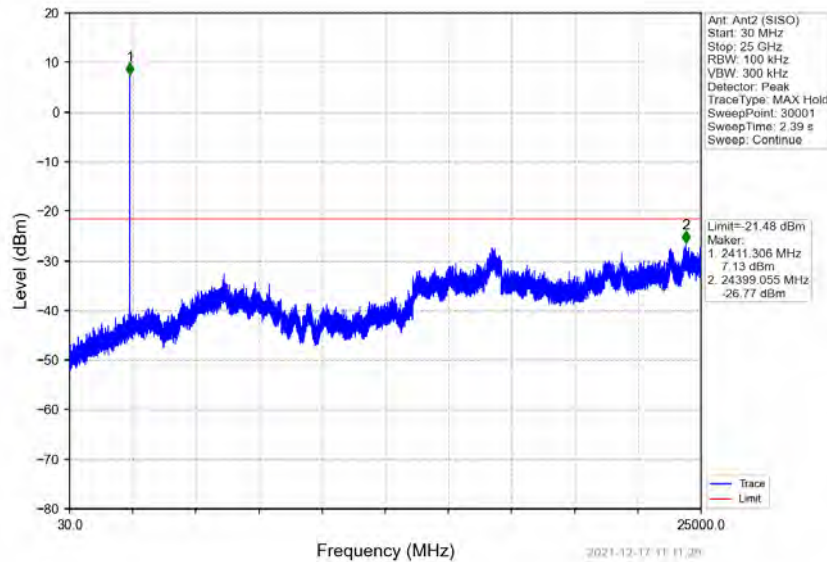
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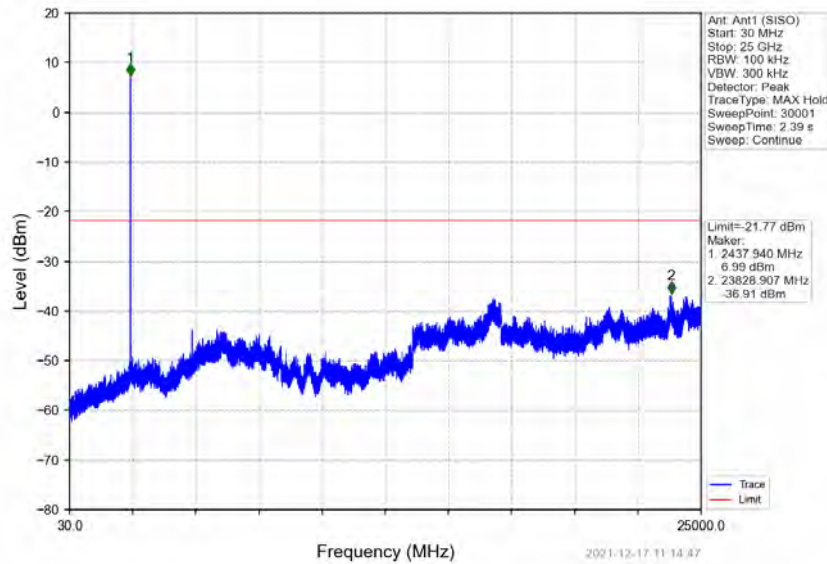
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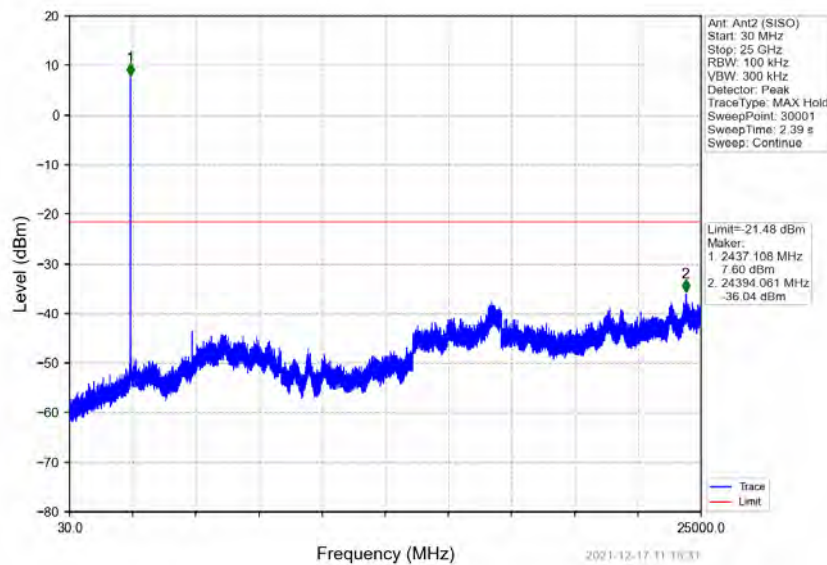
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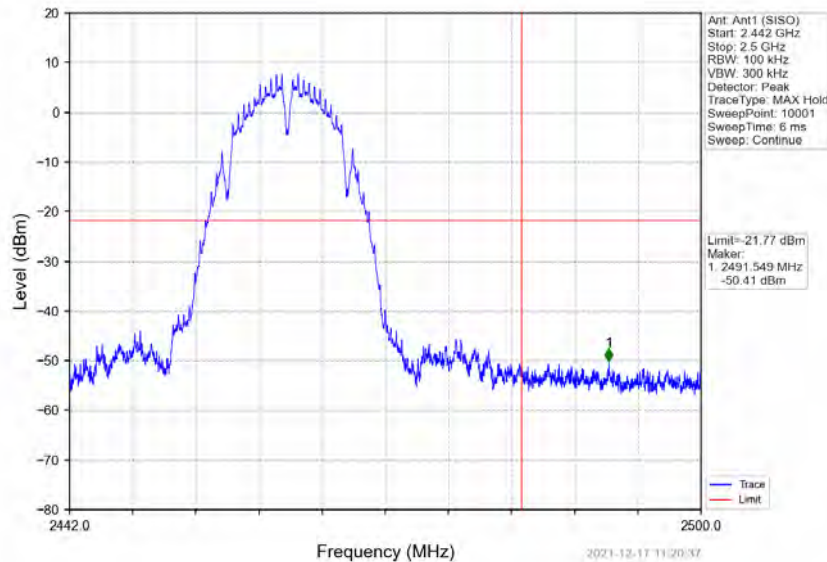
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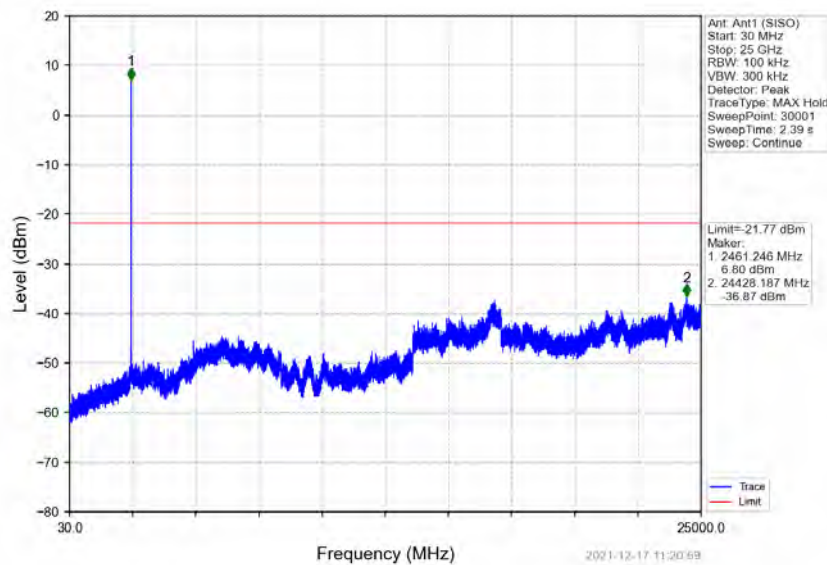
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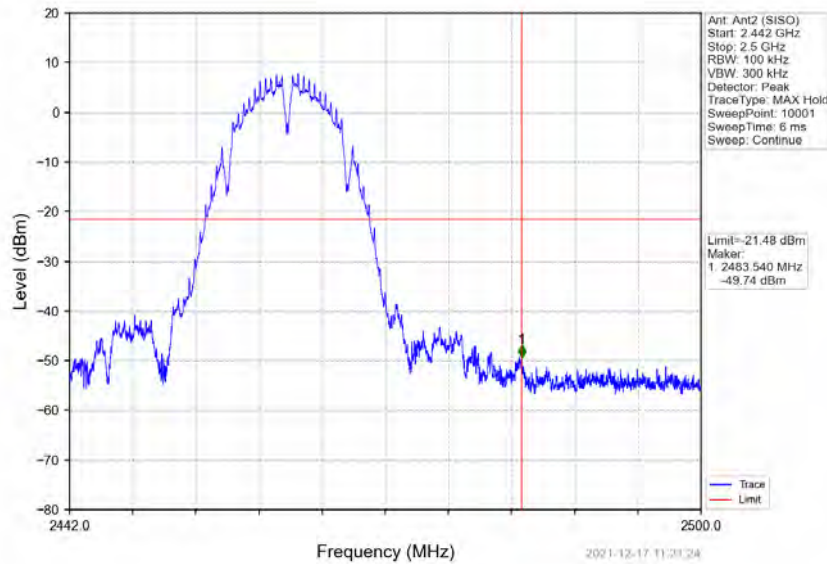
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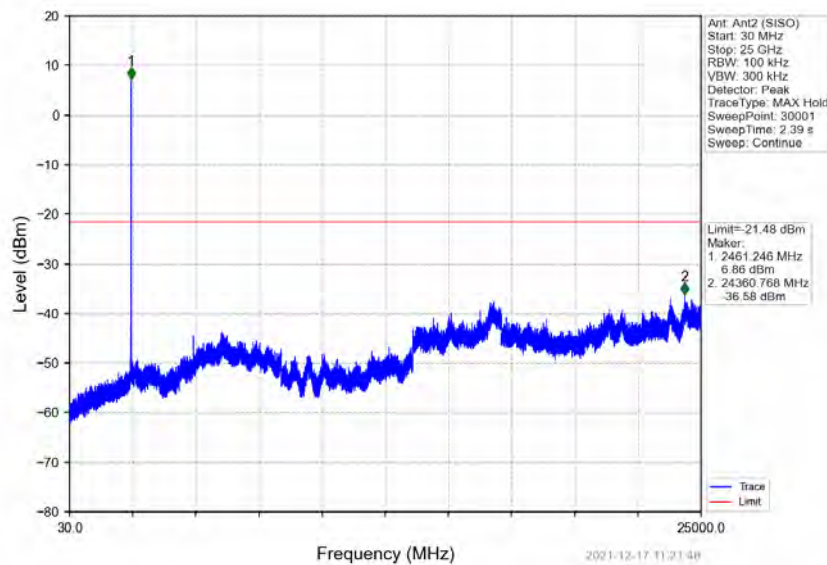


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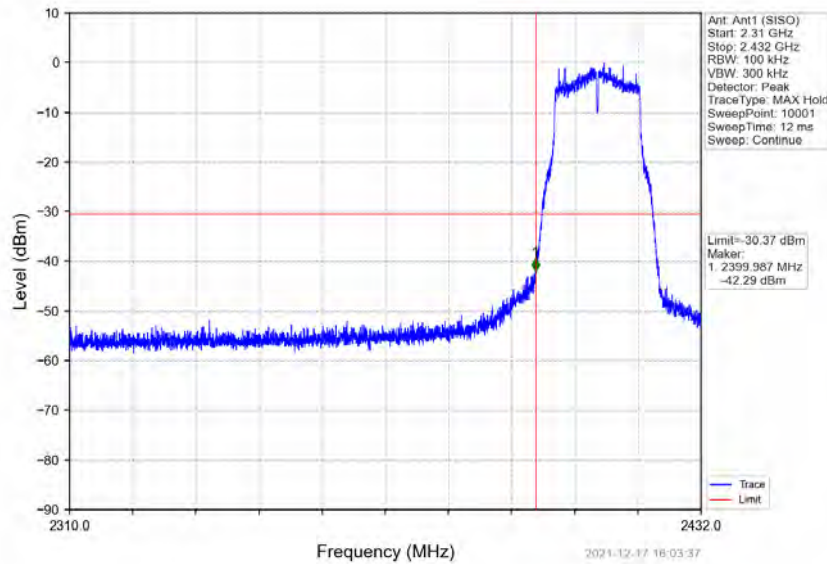
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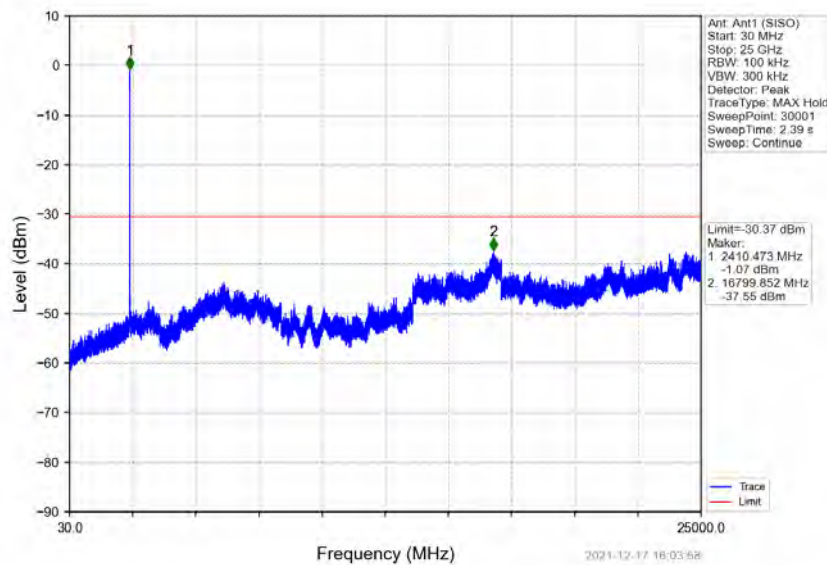
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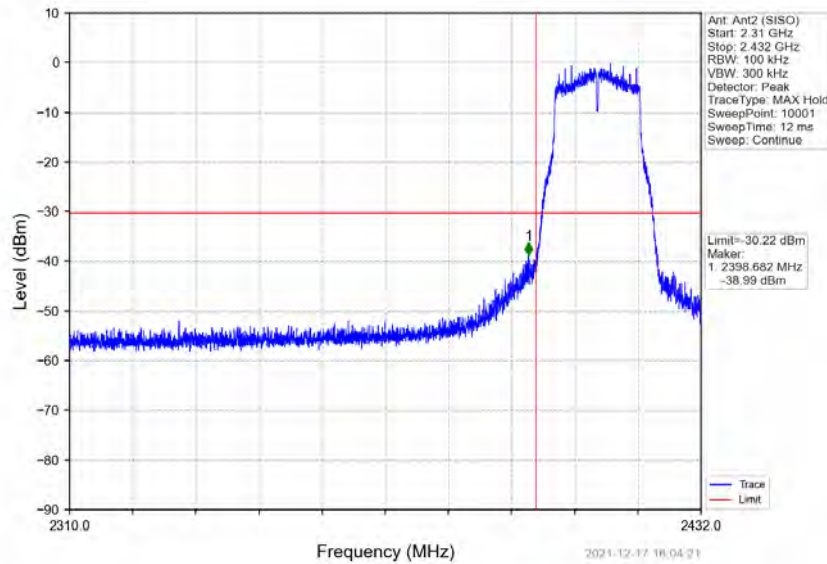
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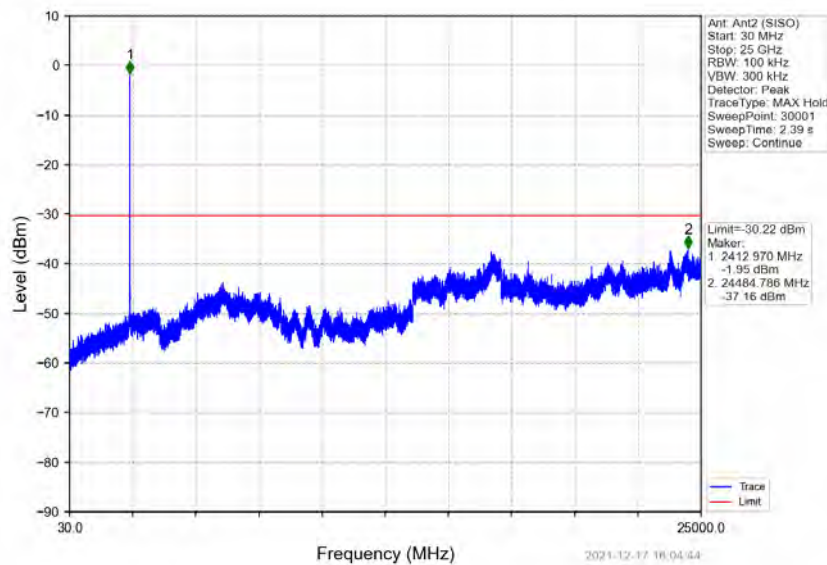
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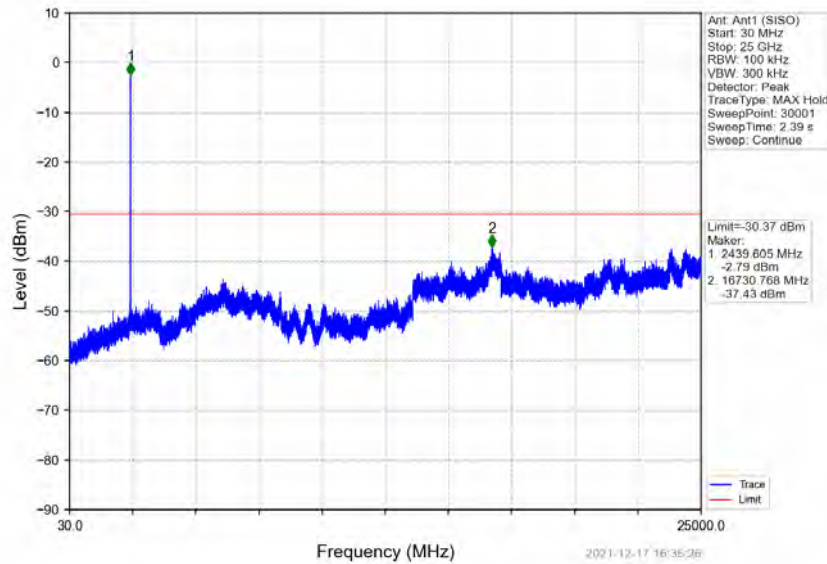
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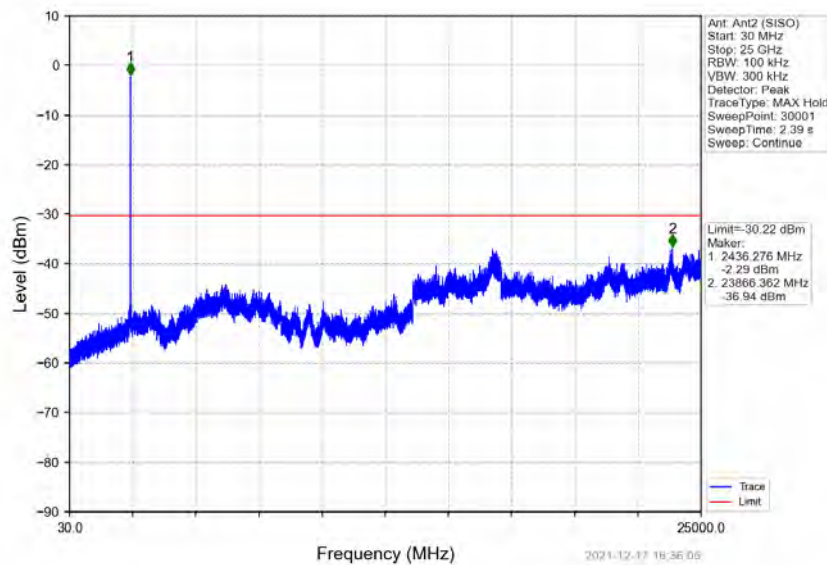
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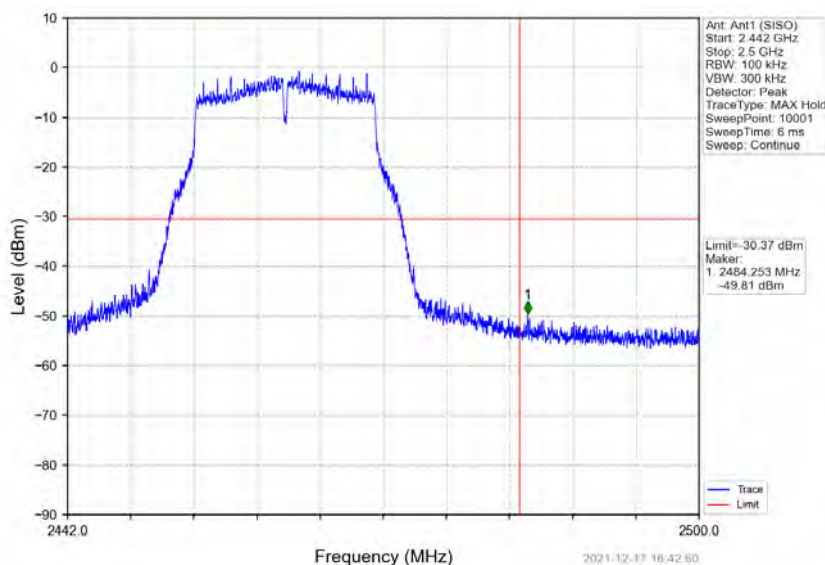
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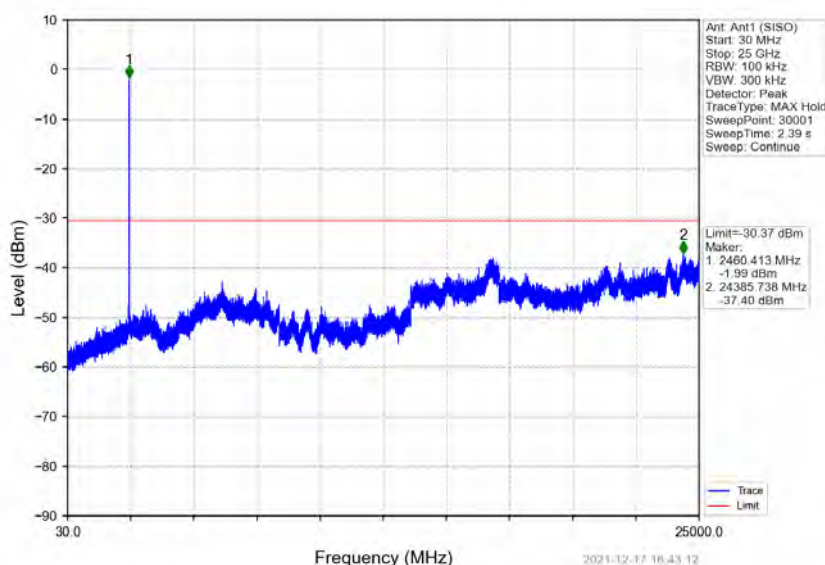




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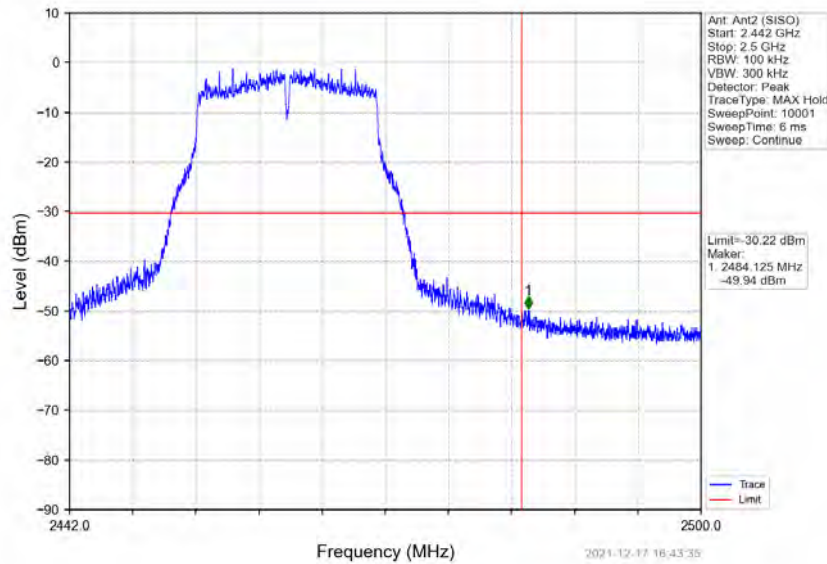
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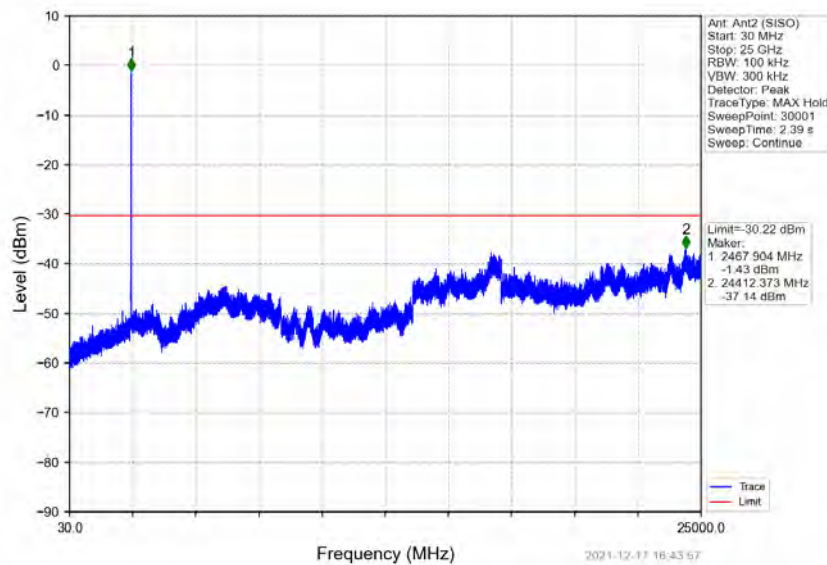
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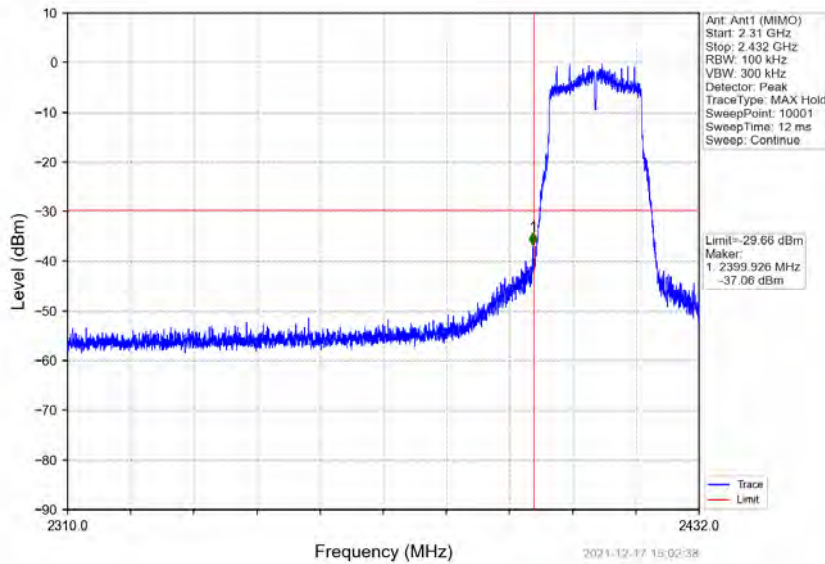
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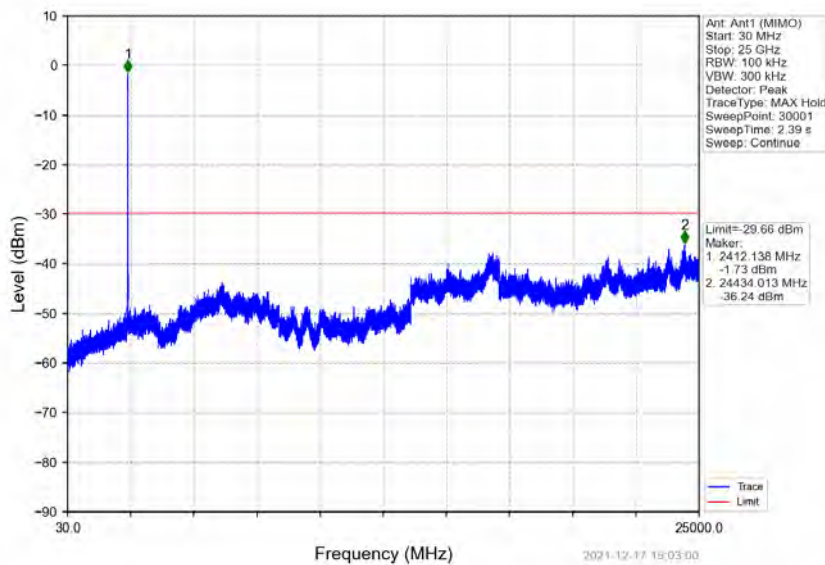
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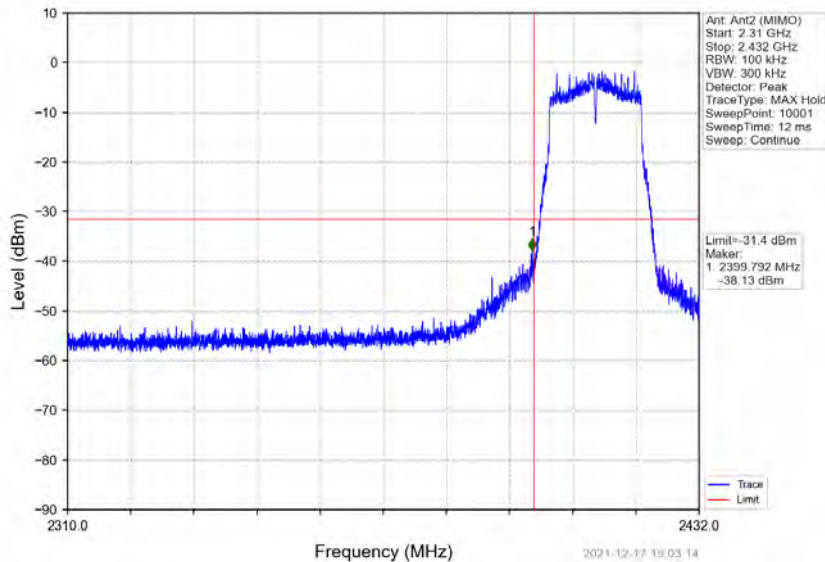
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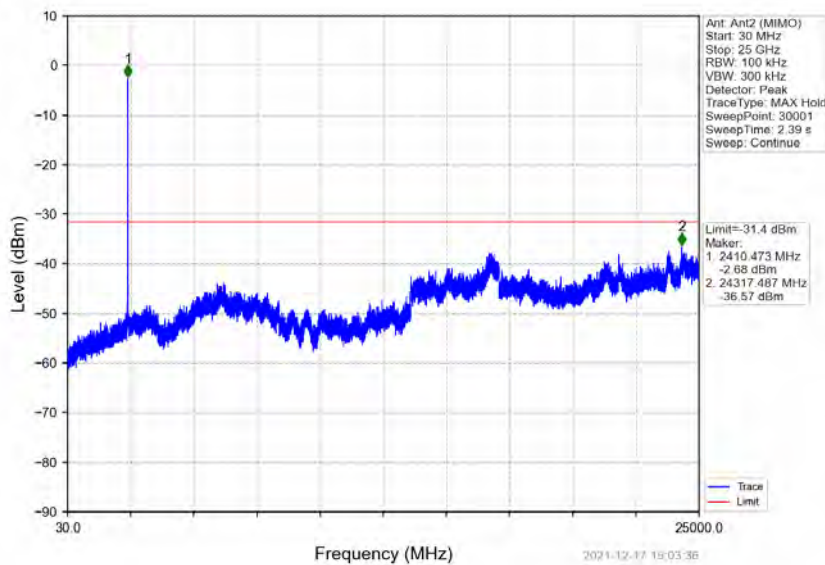
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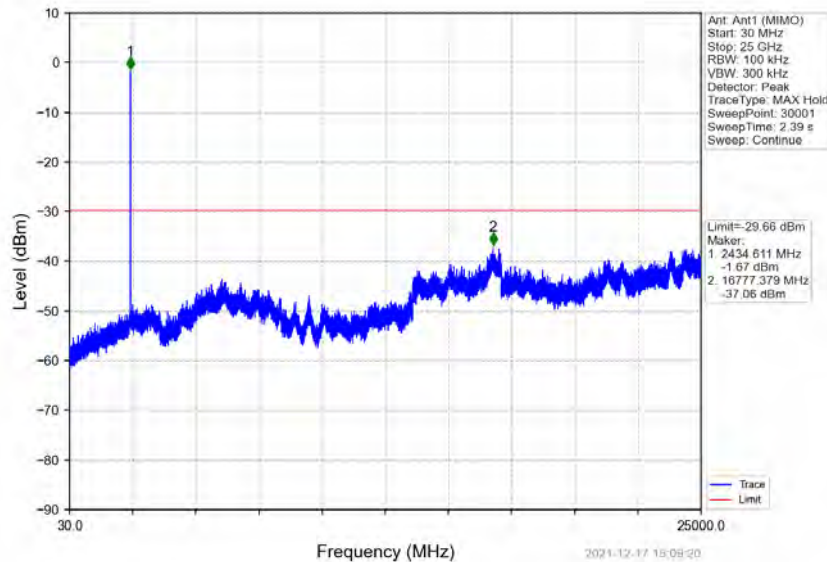
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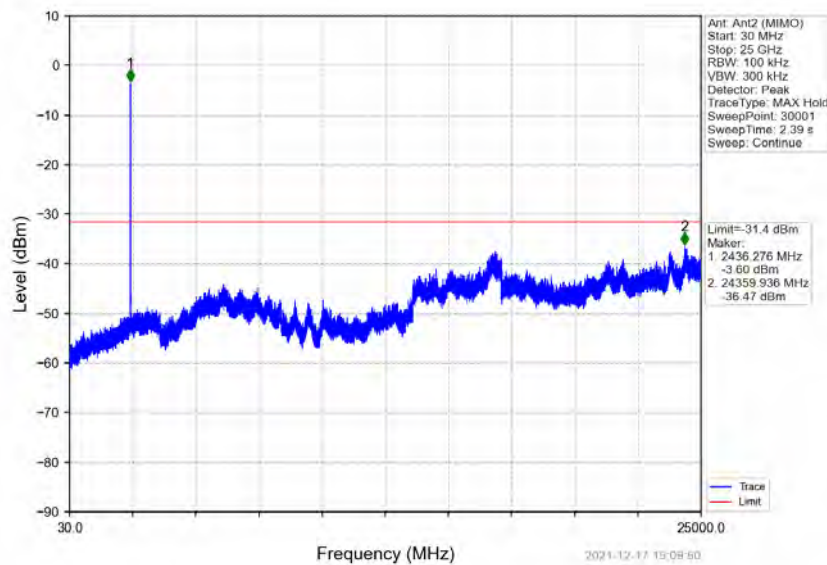
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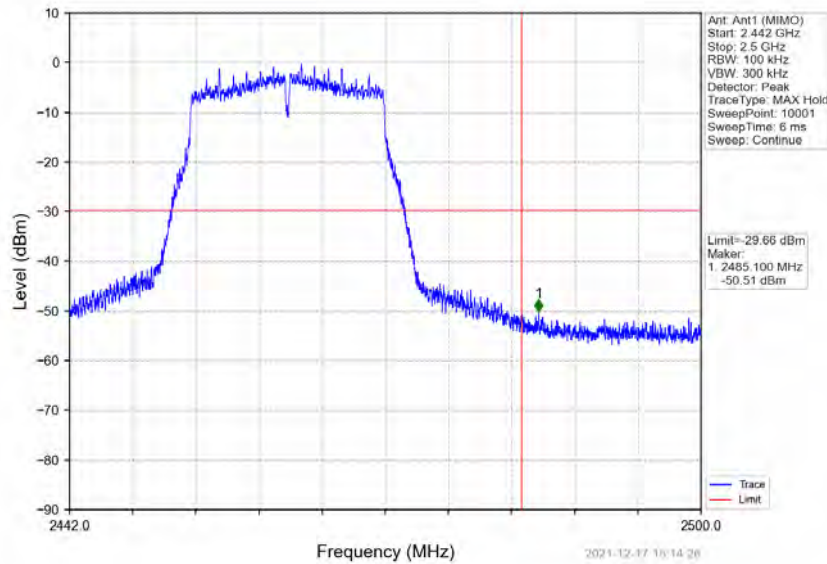
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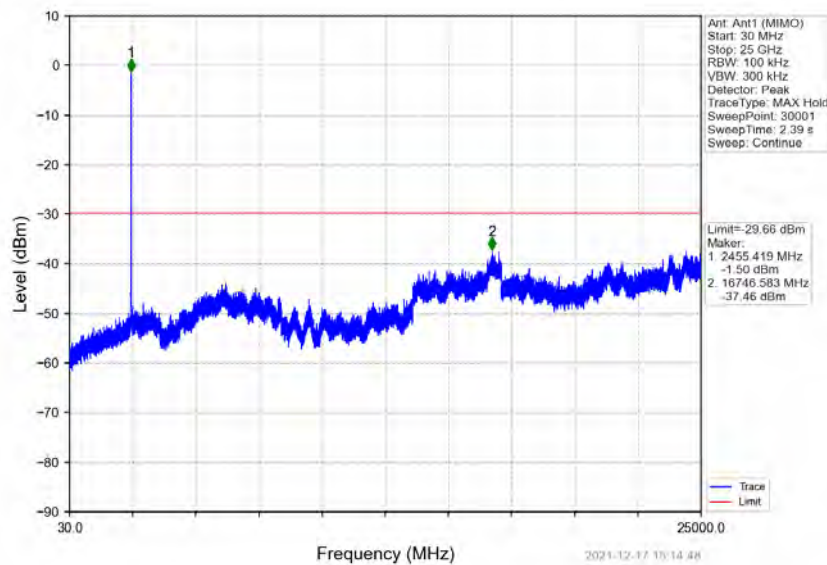
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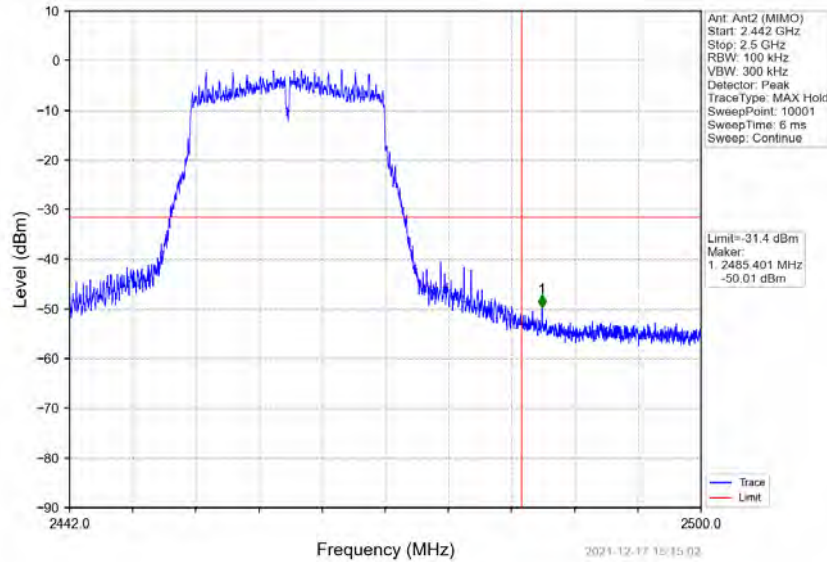
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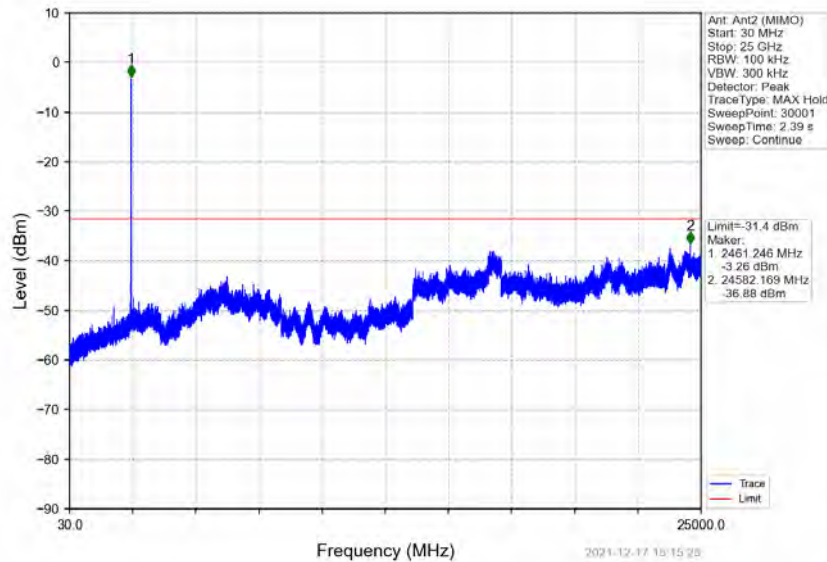
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