

## Appendix A for KSCR210900011901

### 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	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	MIMO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	MIMO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00



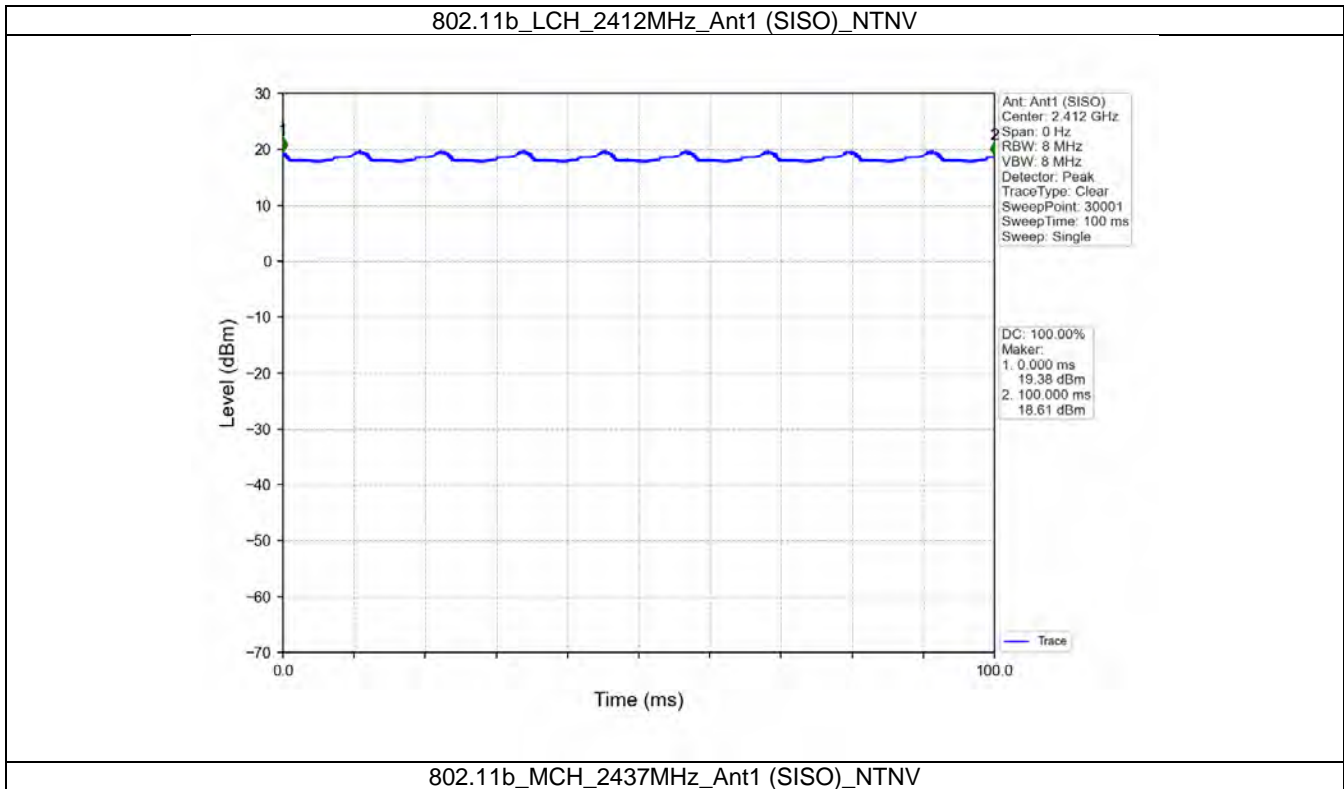
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1.1.2 Test Graph



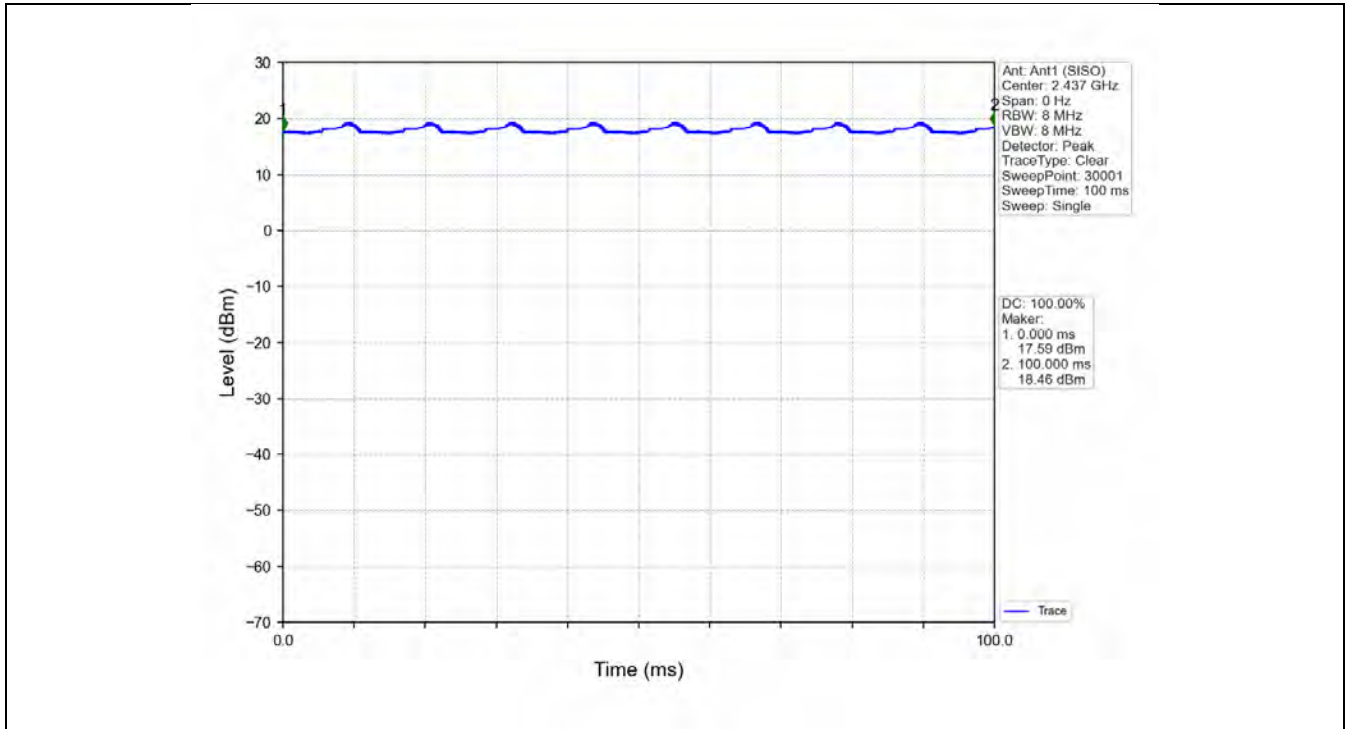
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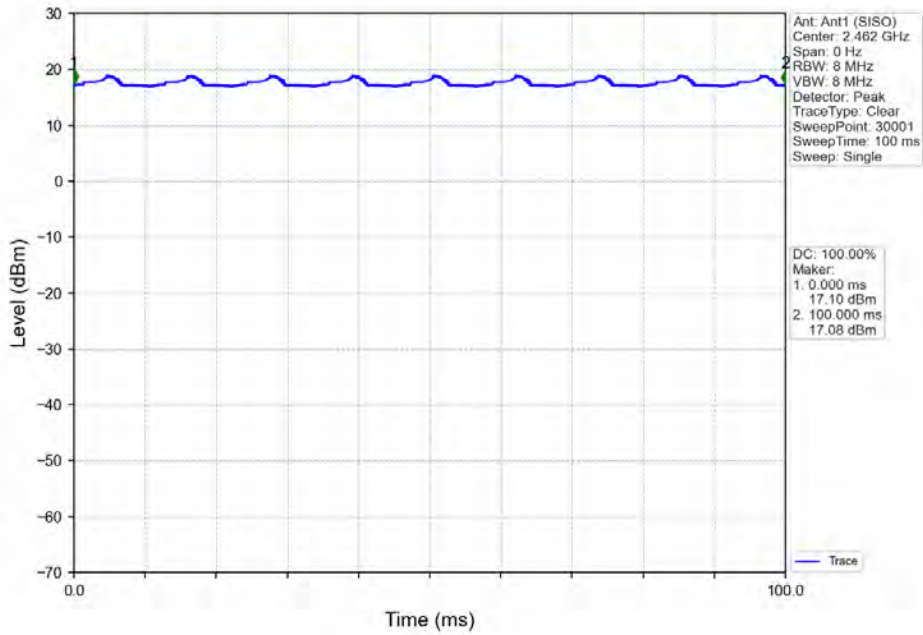
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

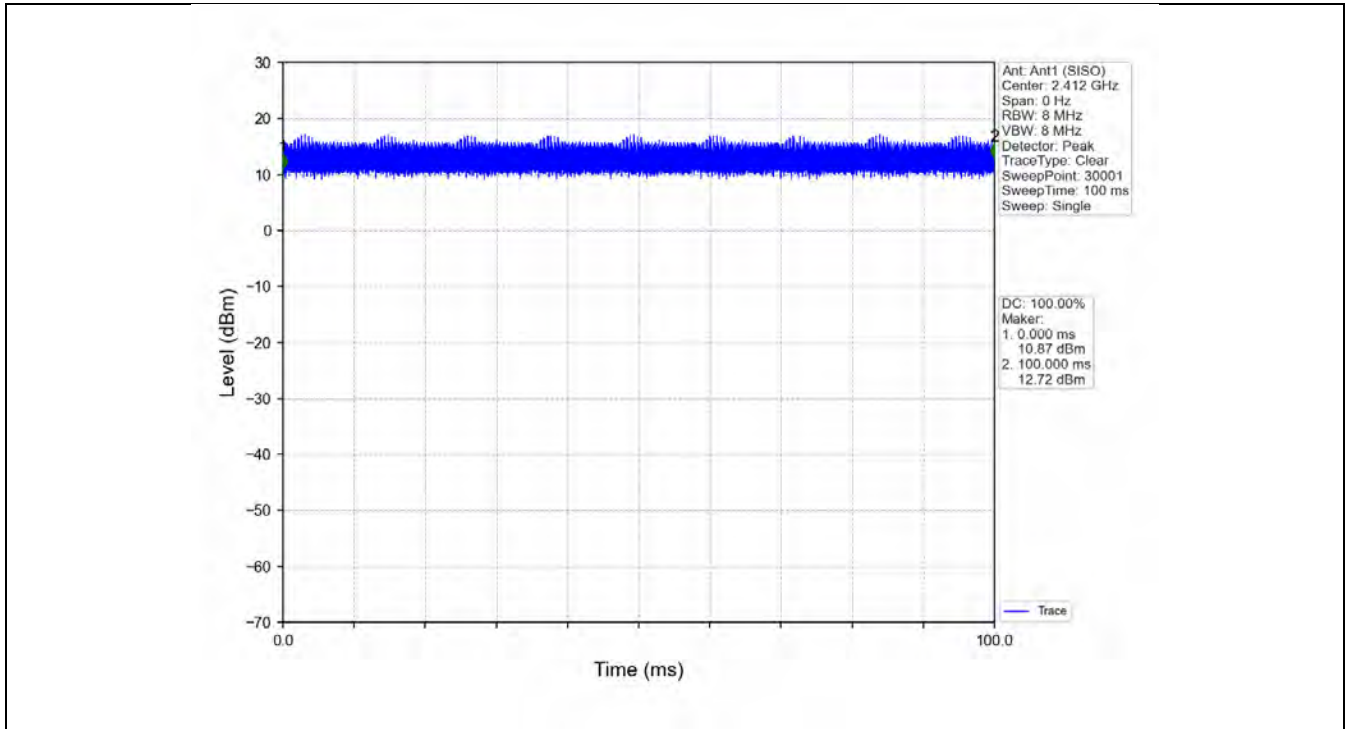


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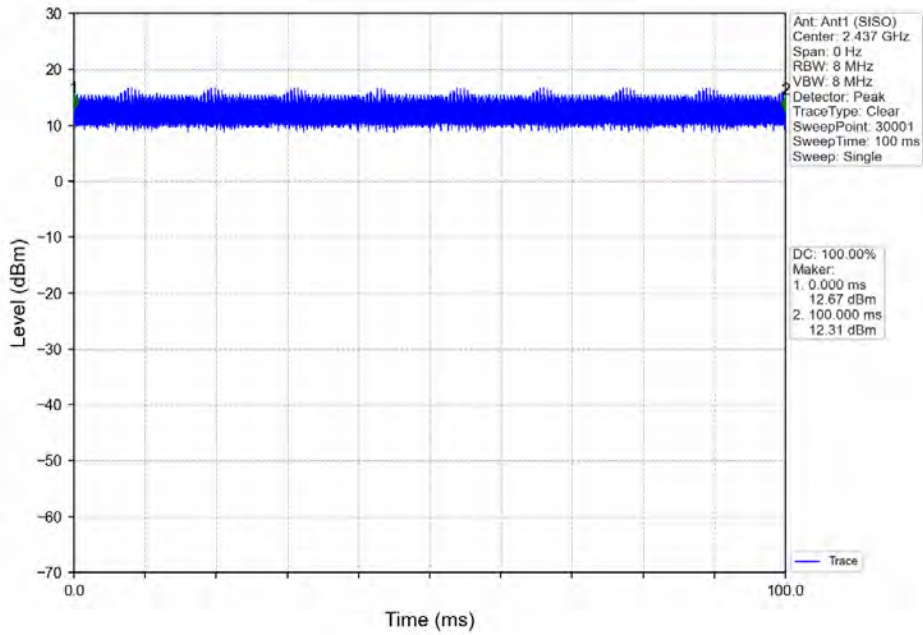
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

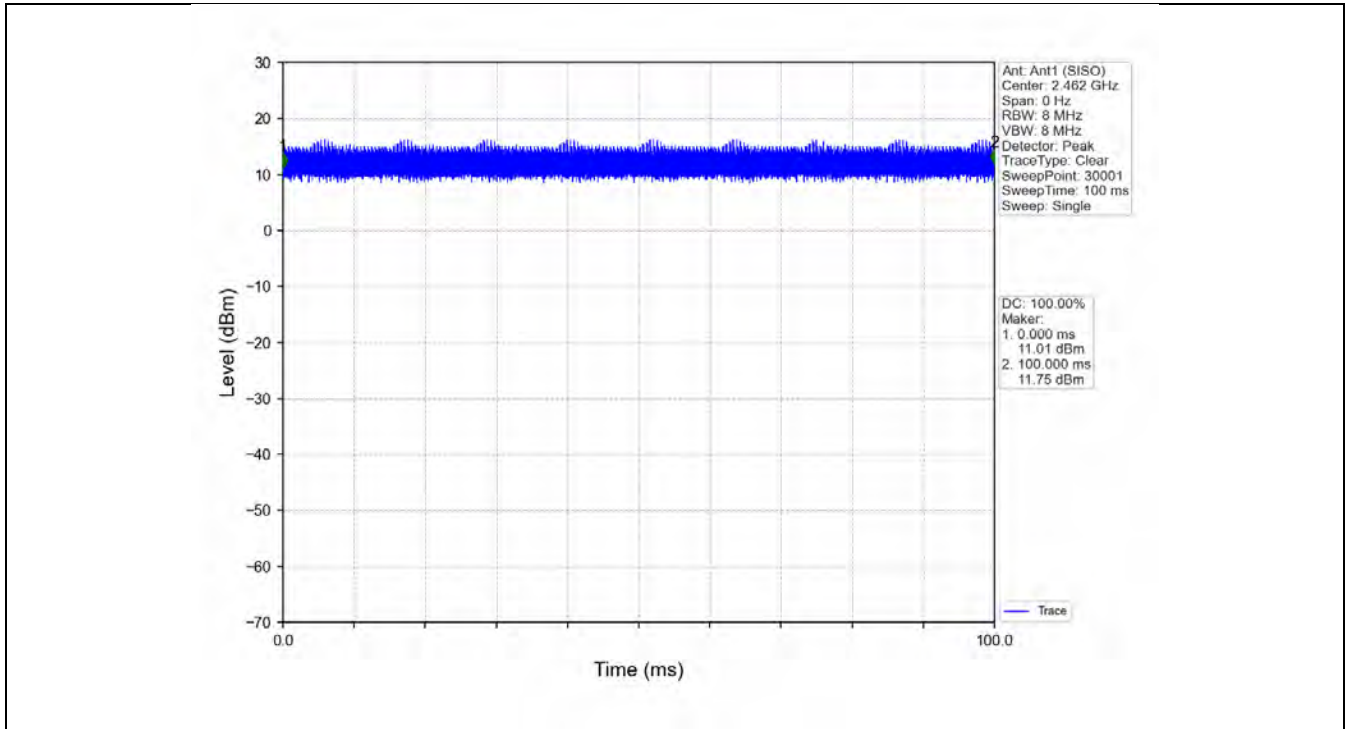


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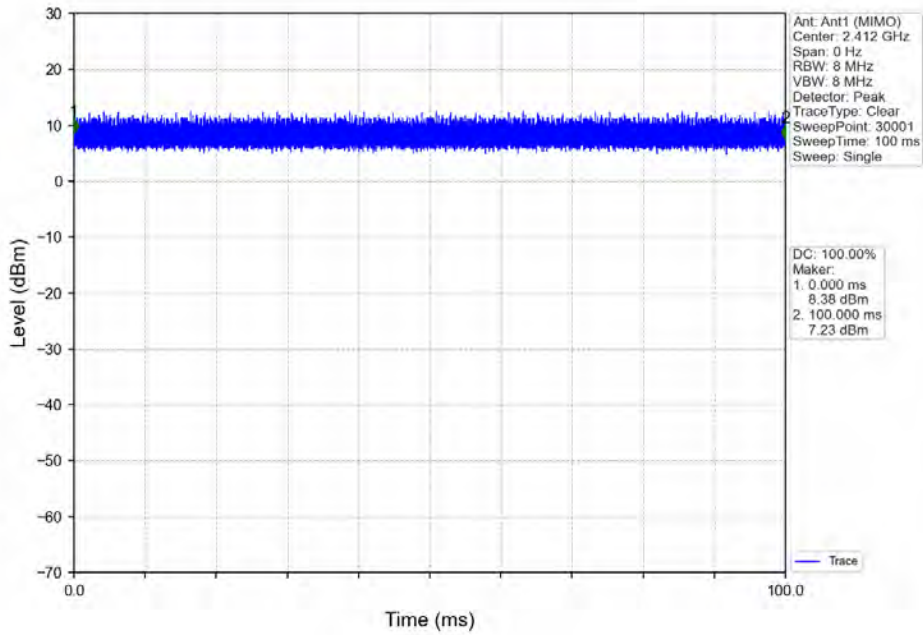
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



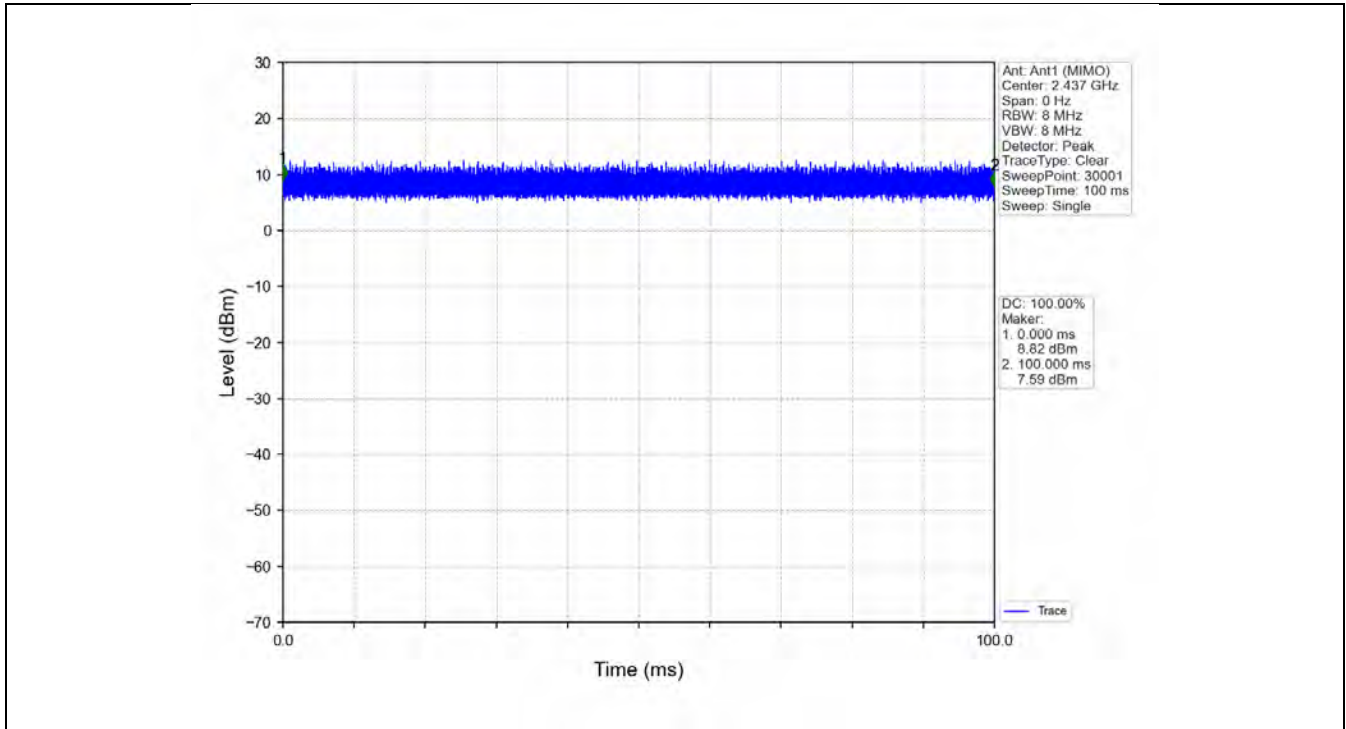
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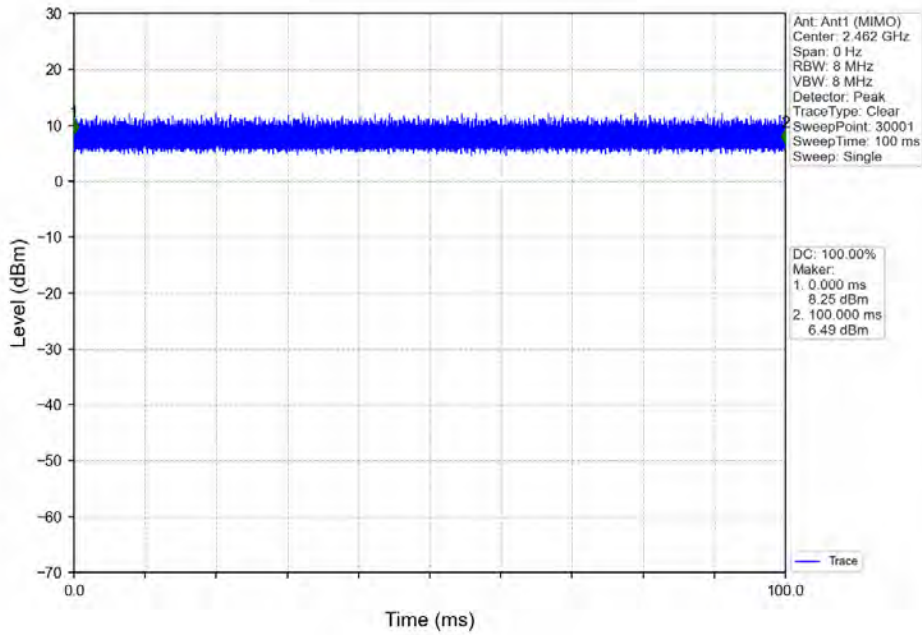
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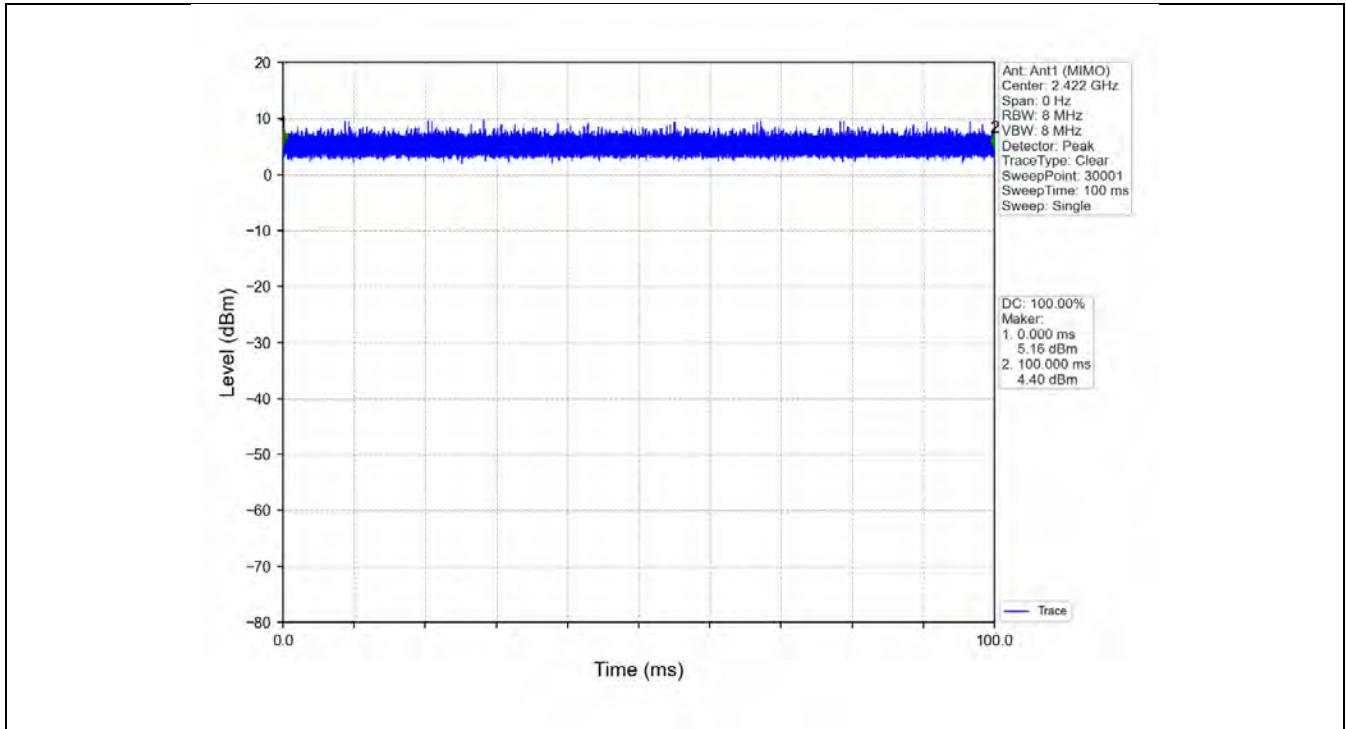


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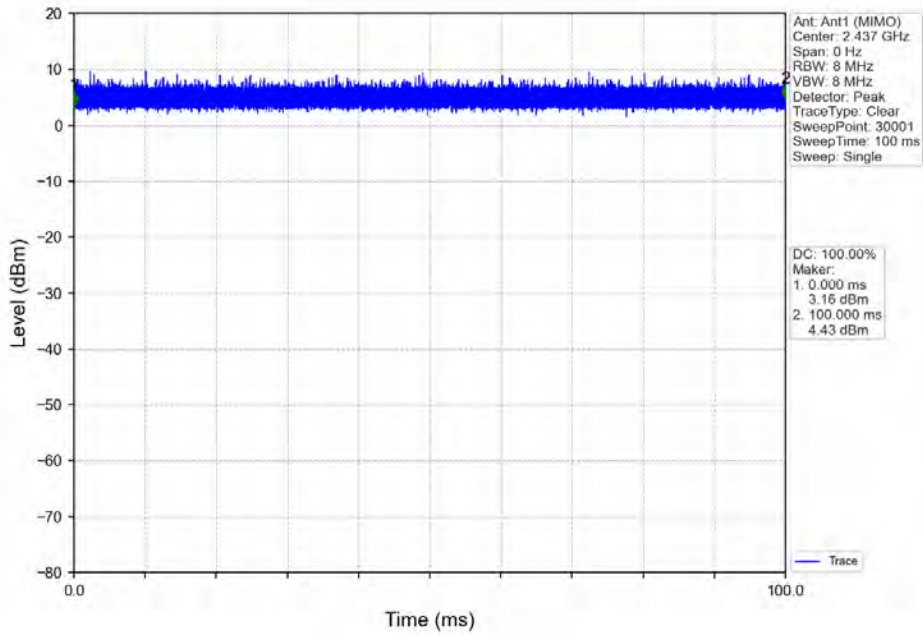
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV

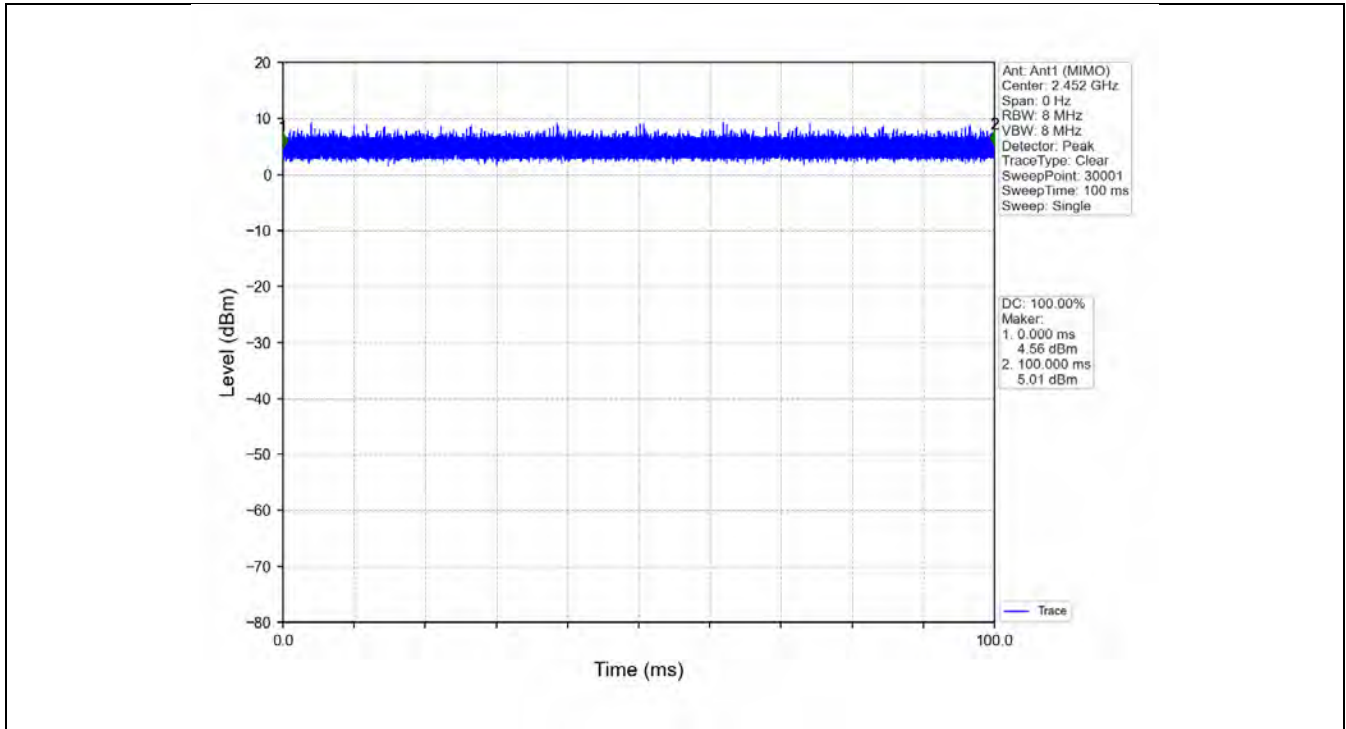


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## 2. Bandwidth

### 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	14.924	Pass
			2	14.932	Pass
		2437	1	14.928	Pass
			2	14.928	Pass
		2462	1	14.916	Pass
			2	14.918	Pass
802.11g	SISO	2412	1	17.660	Pass
			2	17.666	Pass
		2437	1	17.657	Pass
			2	17.670	Pass
		2462	1	17.658	Pass
			2	17.670	Pass
802.11n (HT20)	MIMO	2412	1	18.481	Pass
			2	18.506	Pass
		2437	1	18.468	Pass
			2	18.516	Pass
		2462	1	18.467	Pass
			2	18.514	Pass
802.11n (HT40)	MIMO	2422	1	36.091	Pass
			2	36.120	Pass
		2437	1	36.086	Pass
			2	36.111	Pass
		2452	1	36.076	Pass
			2	36.110	Pass

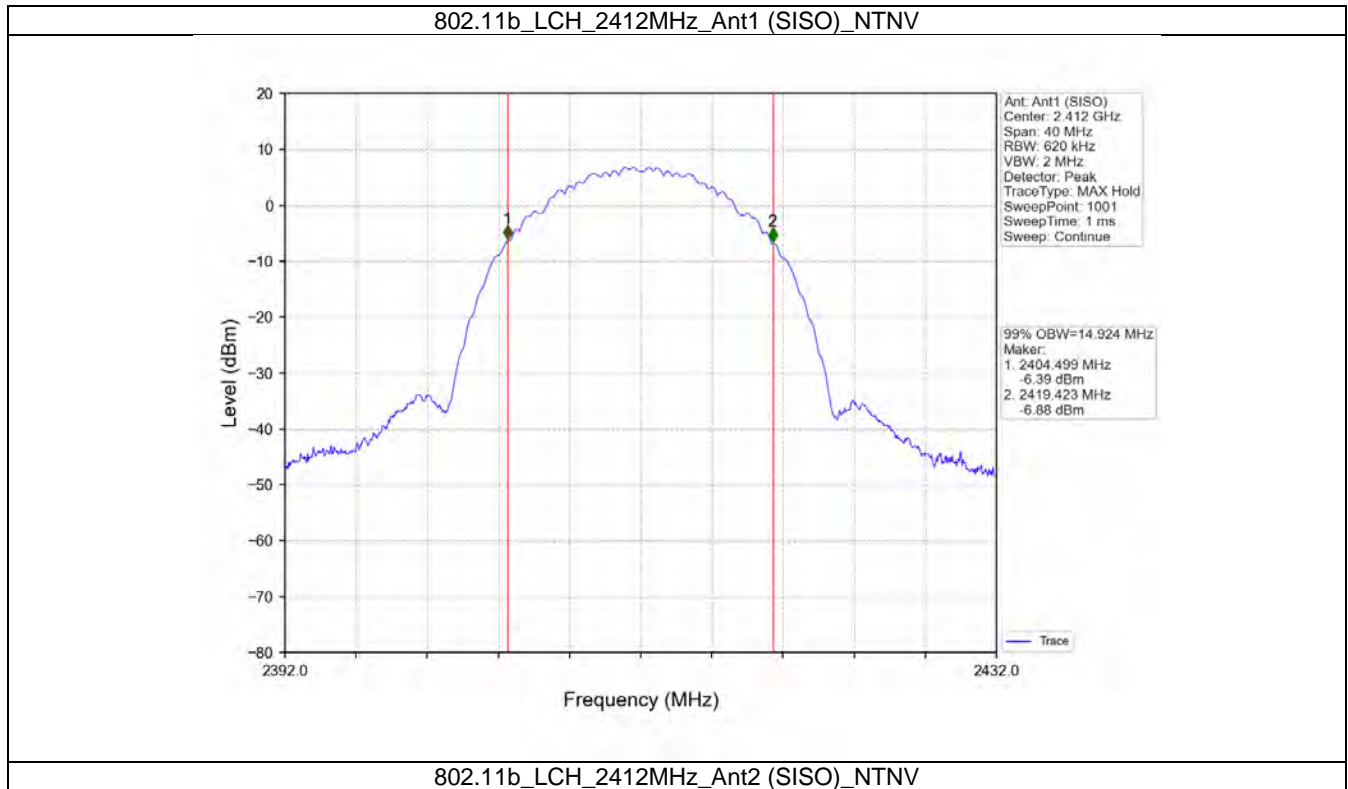


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2.1.2 Test Graph



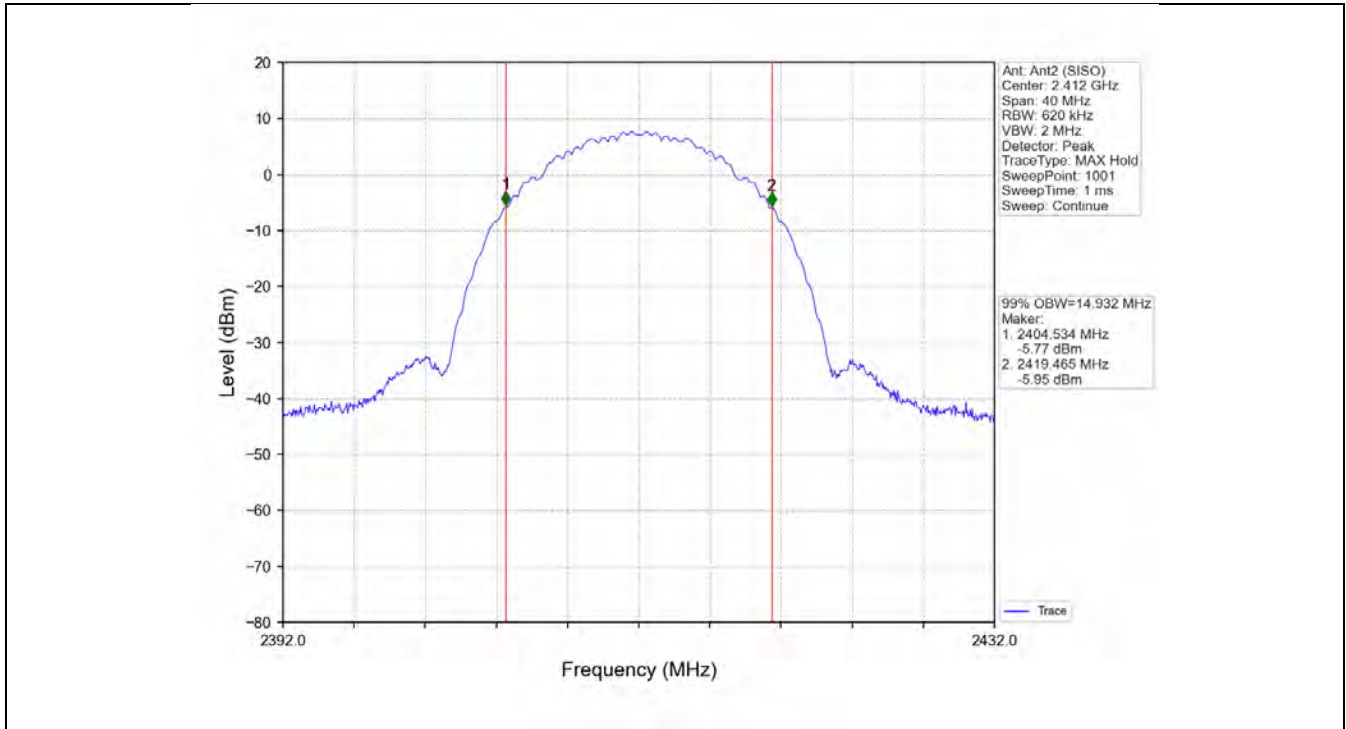
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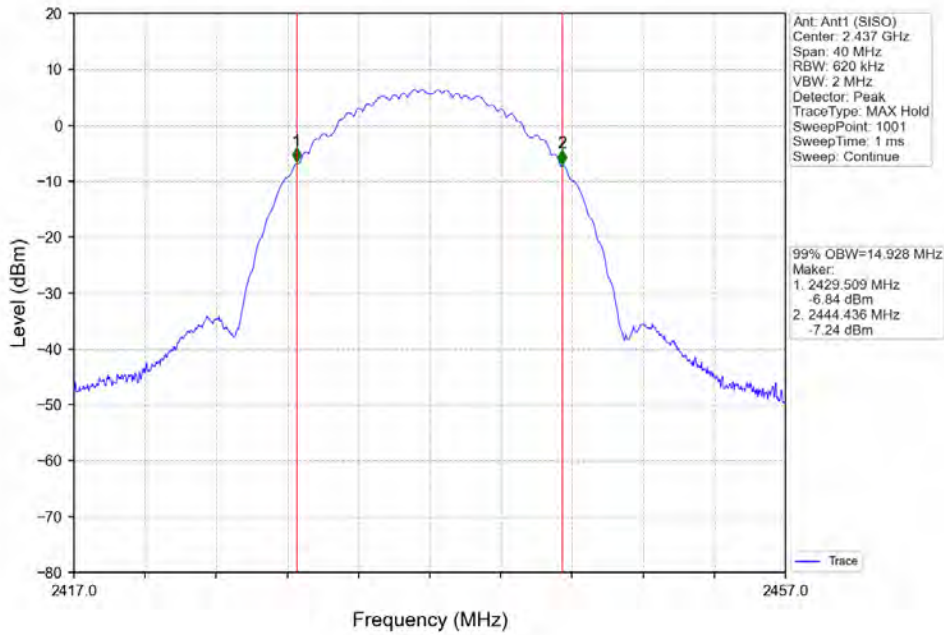
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802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV



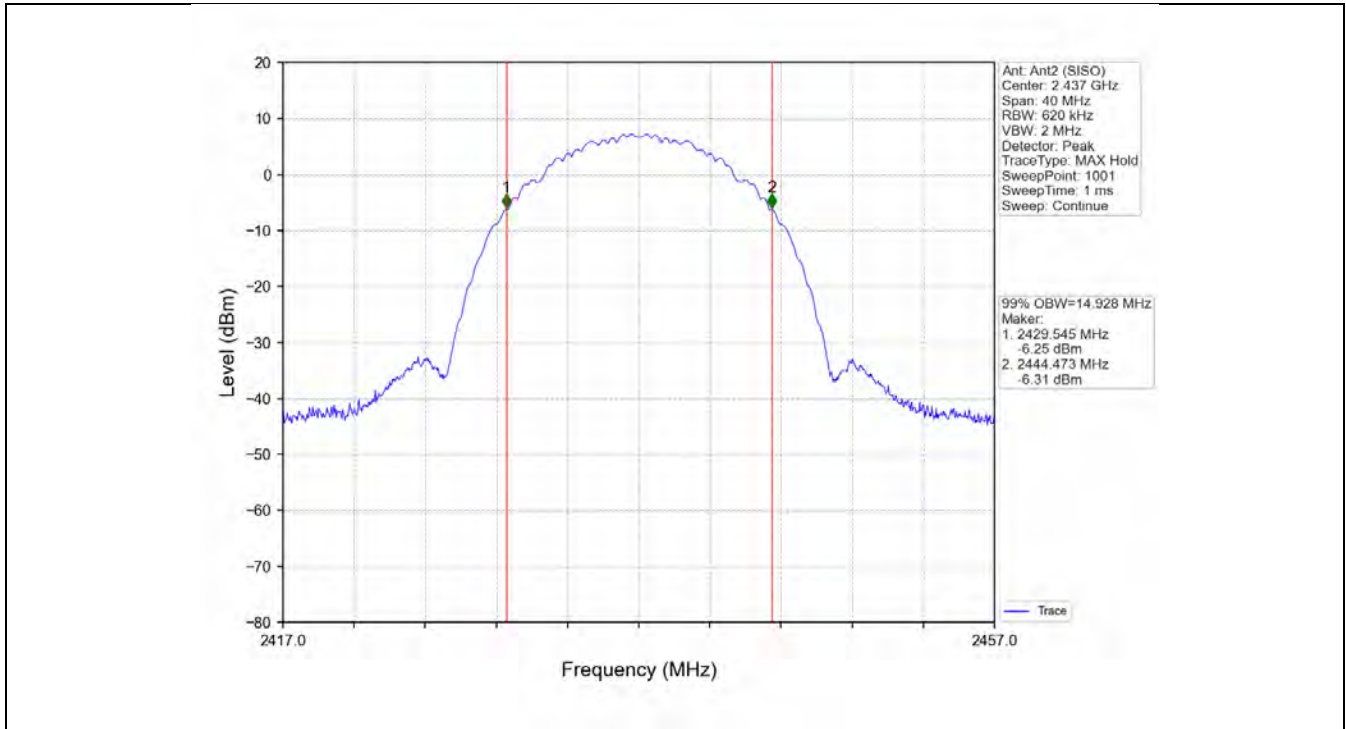
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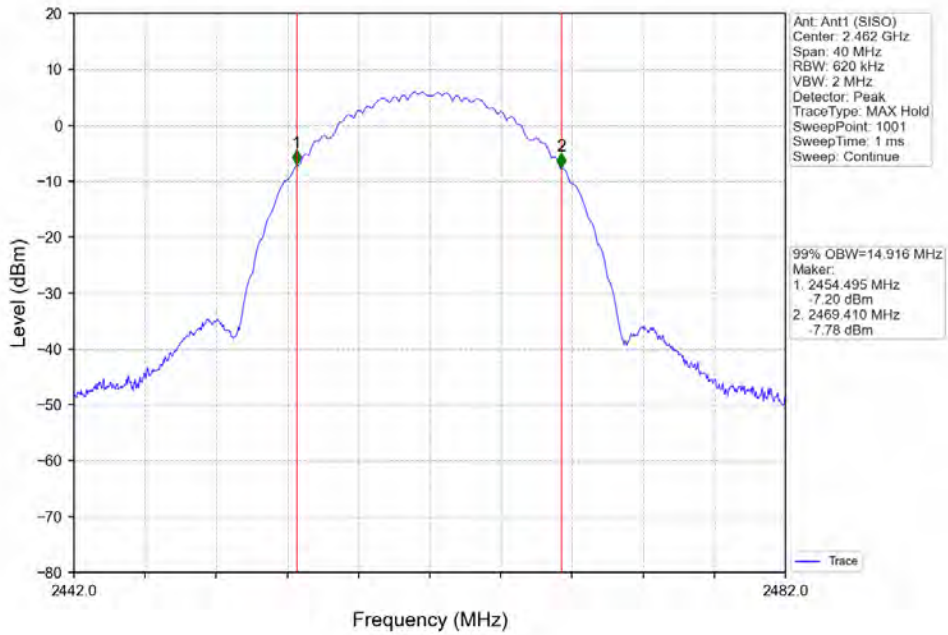
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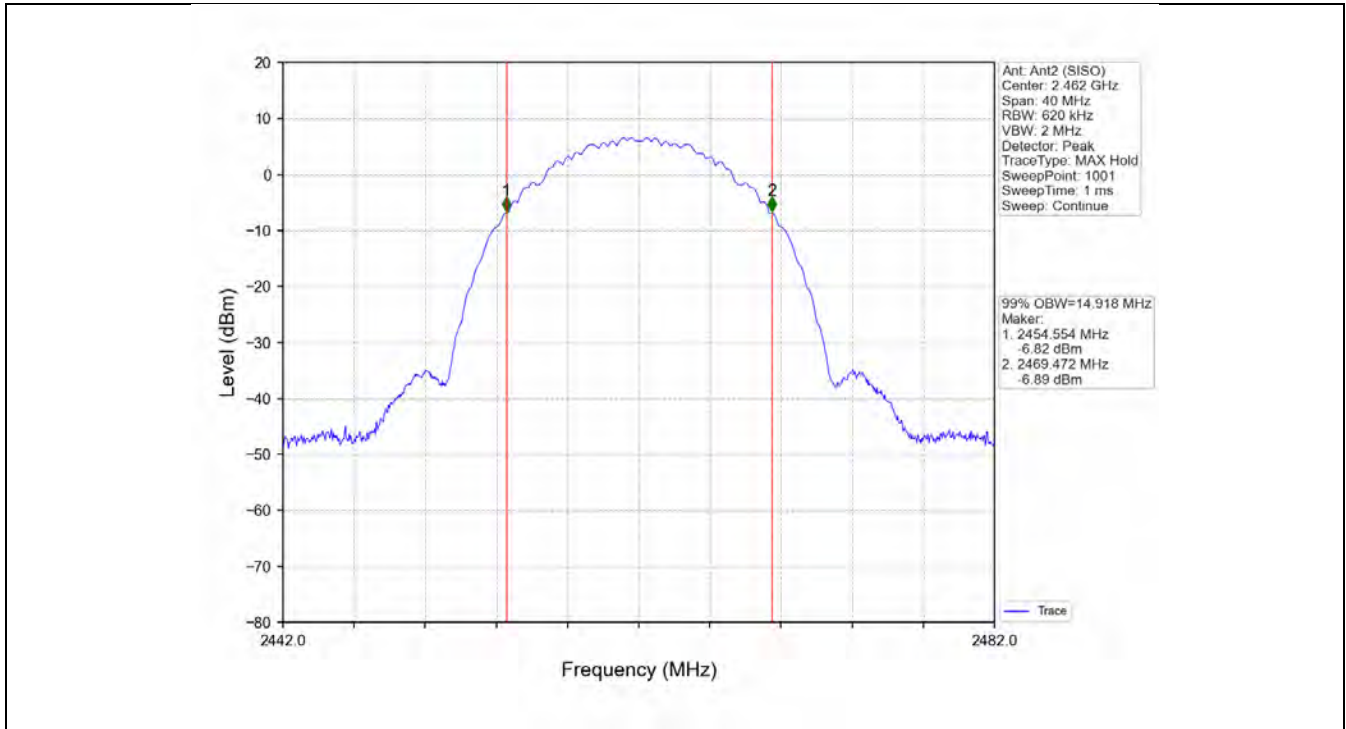
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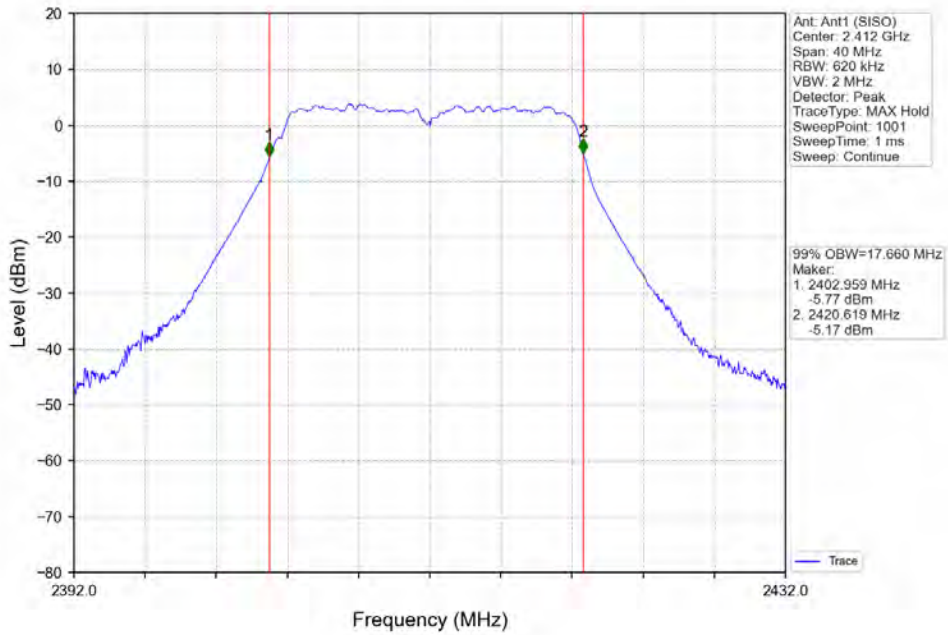
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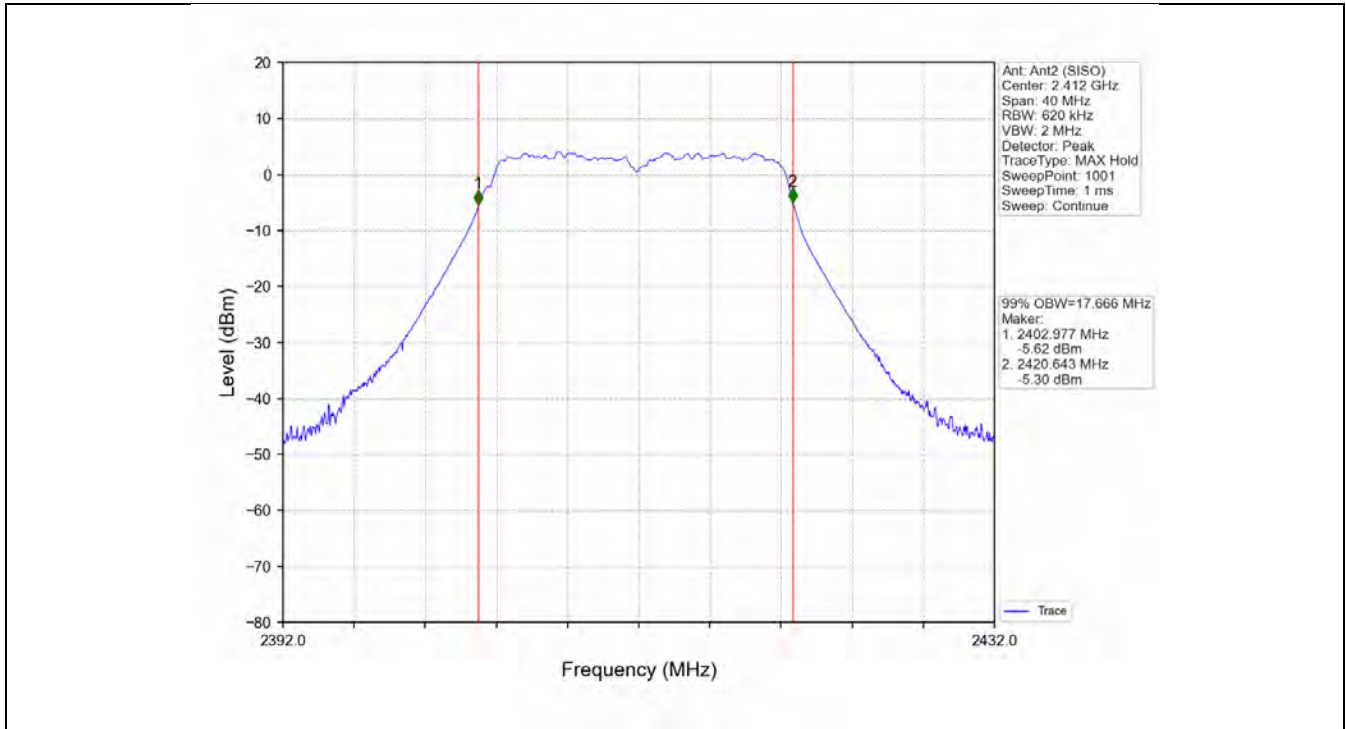
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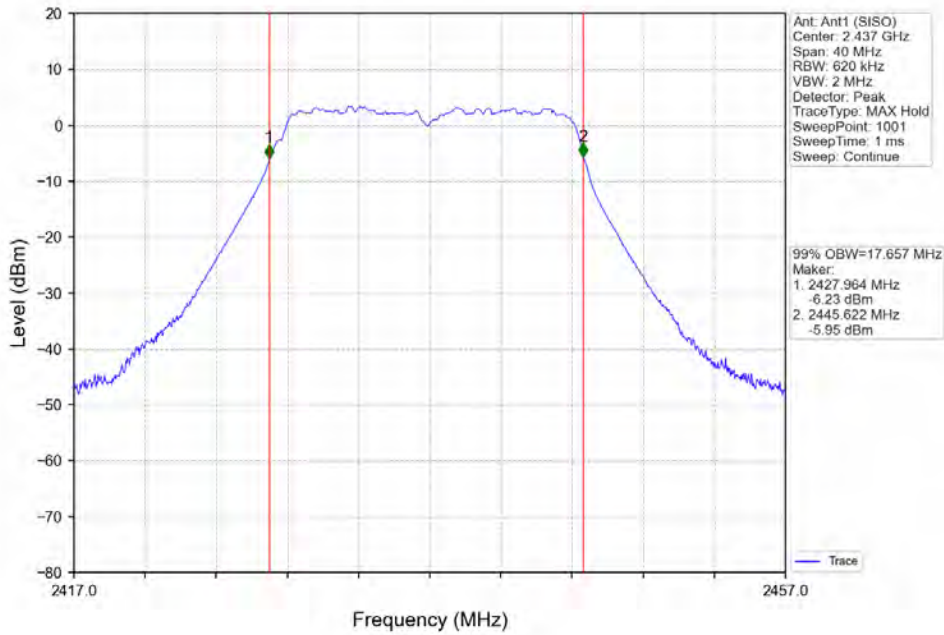
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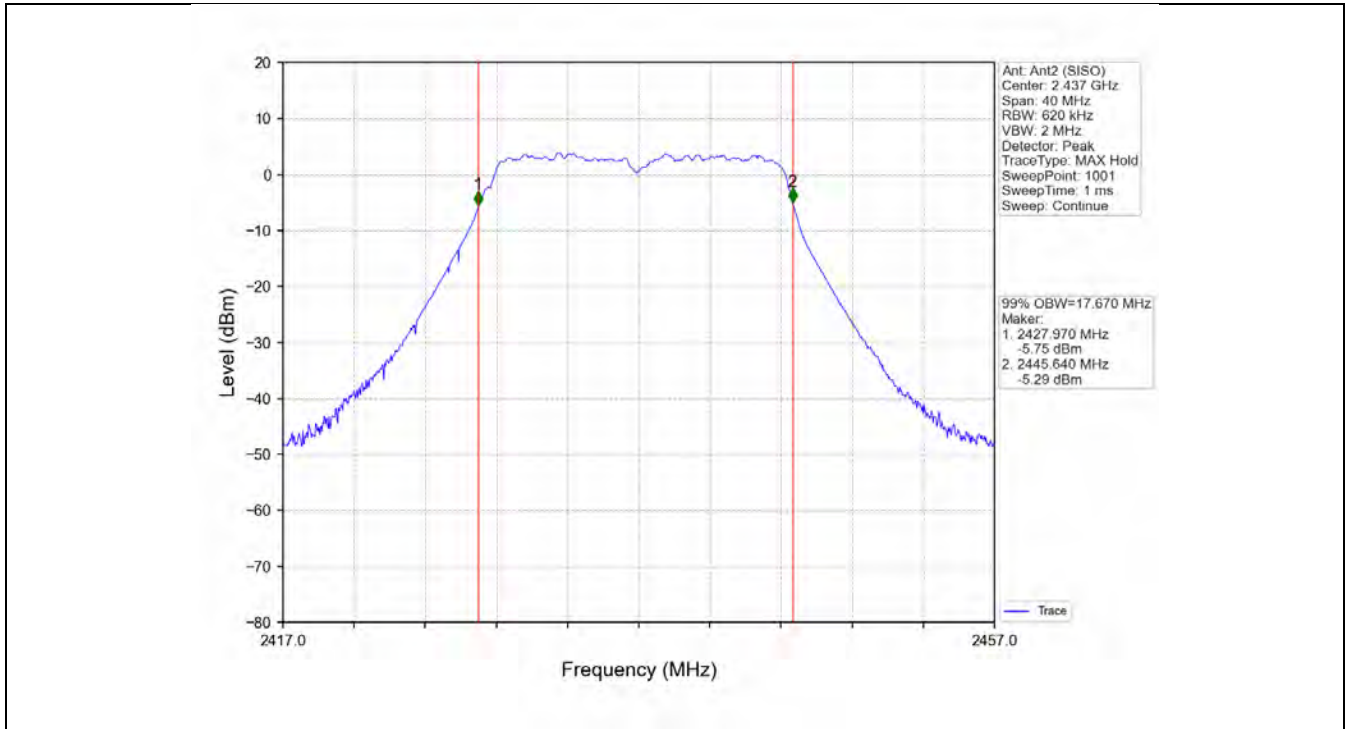
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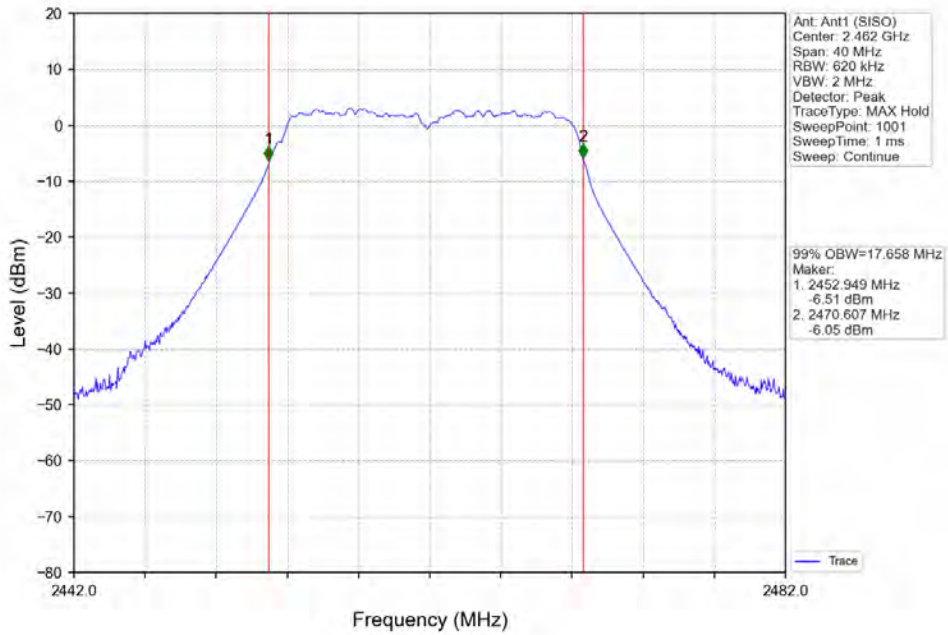
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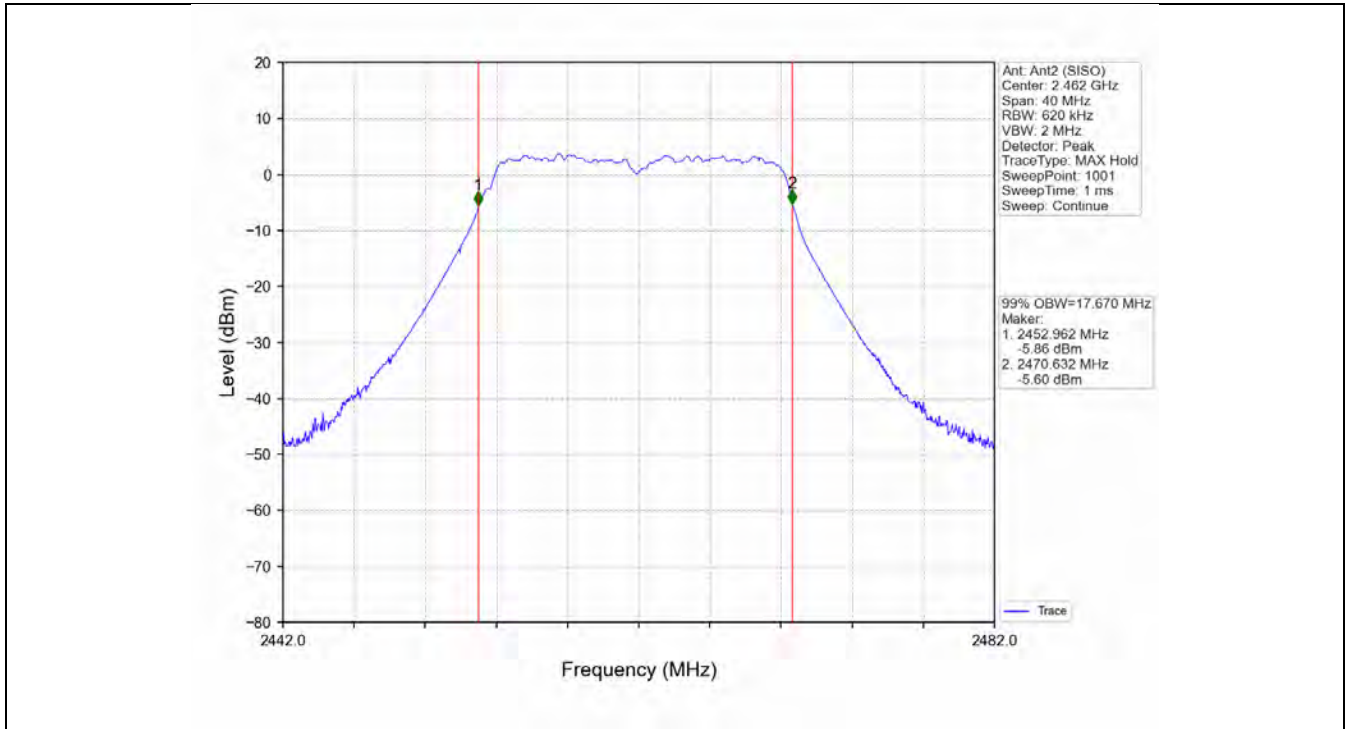
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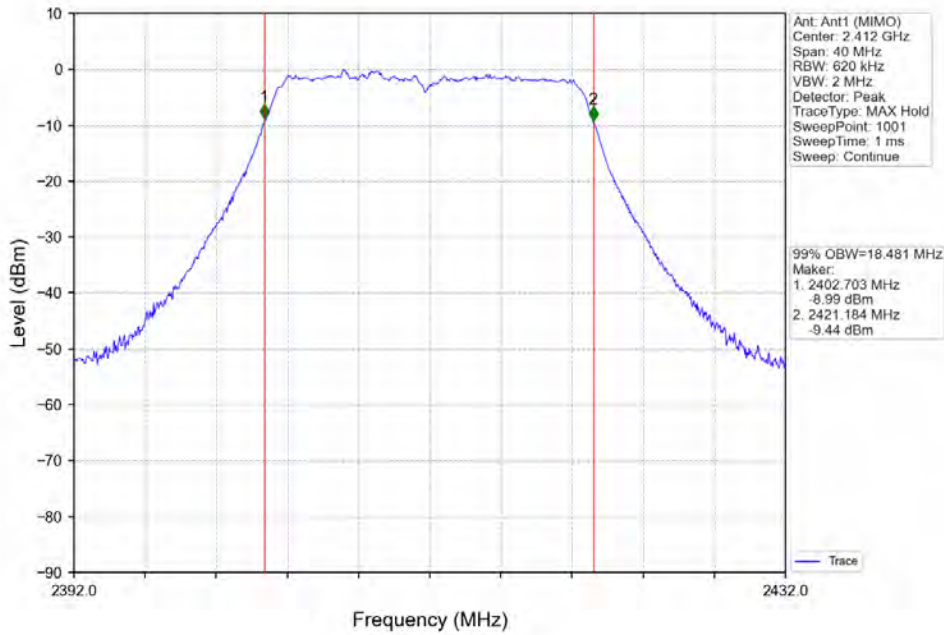
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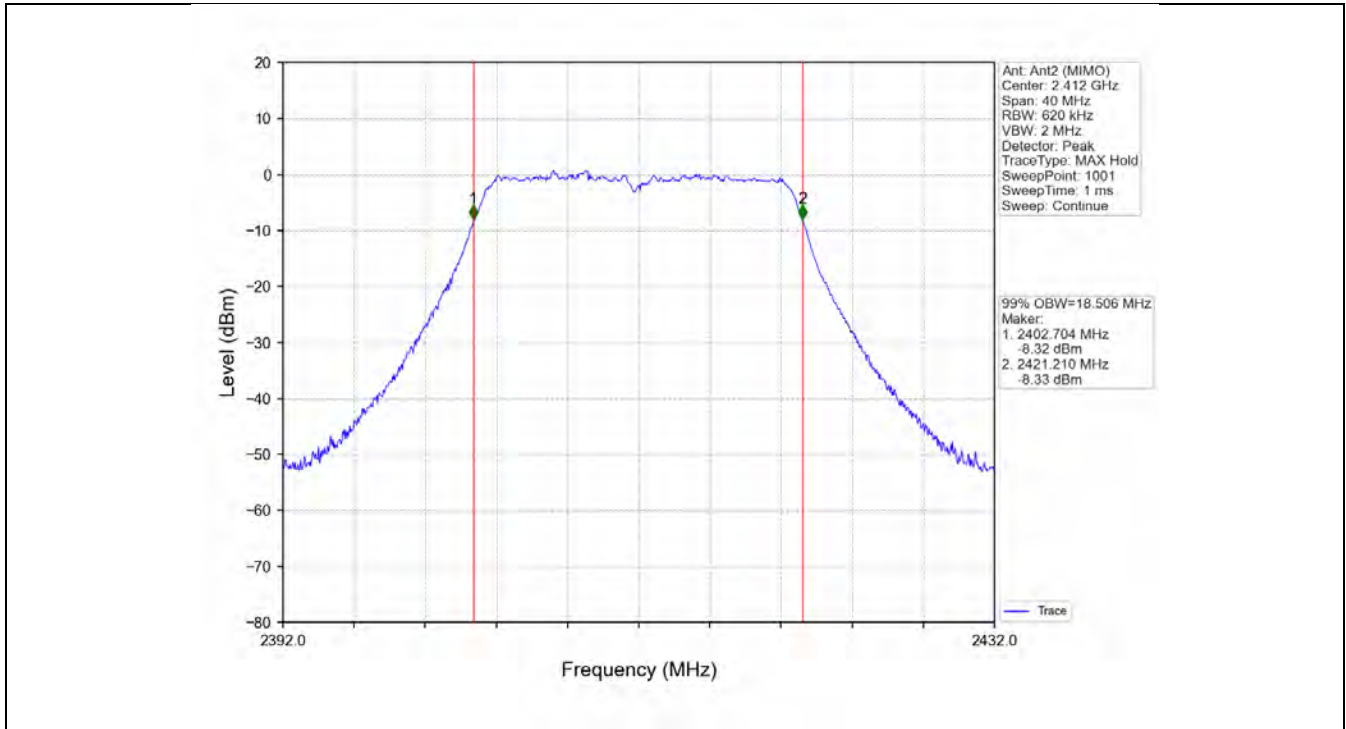
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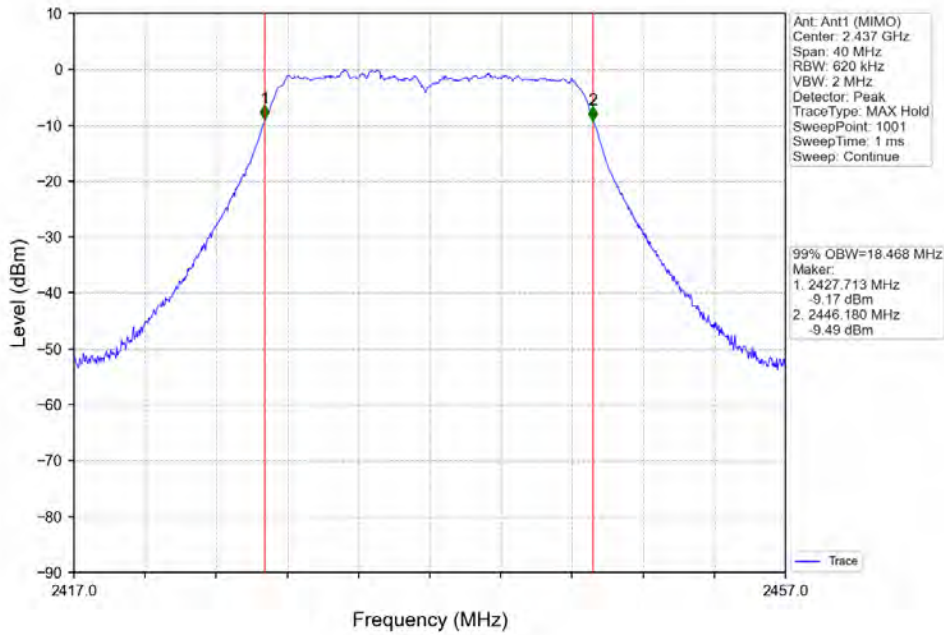
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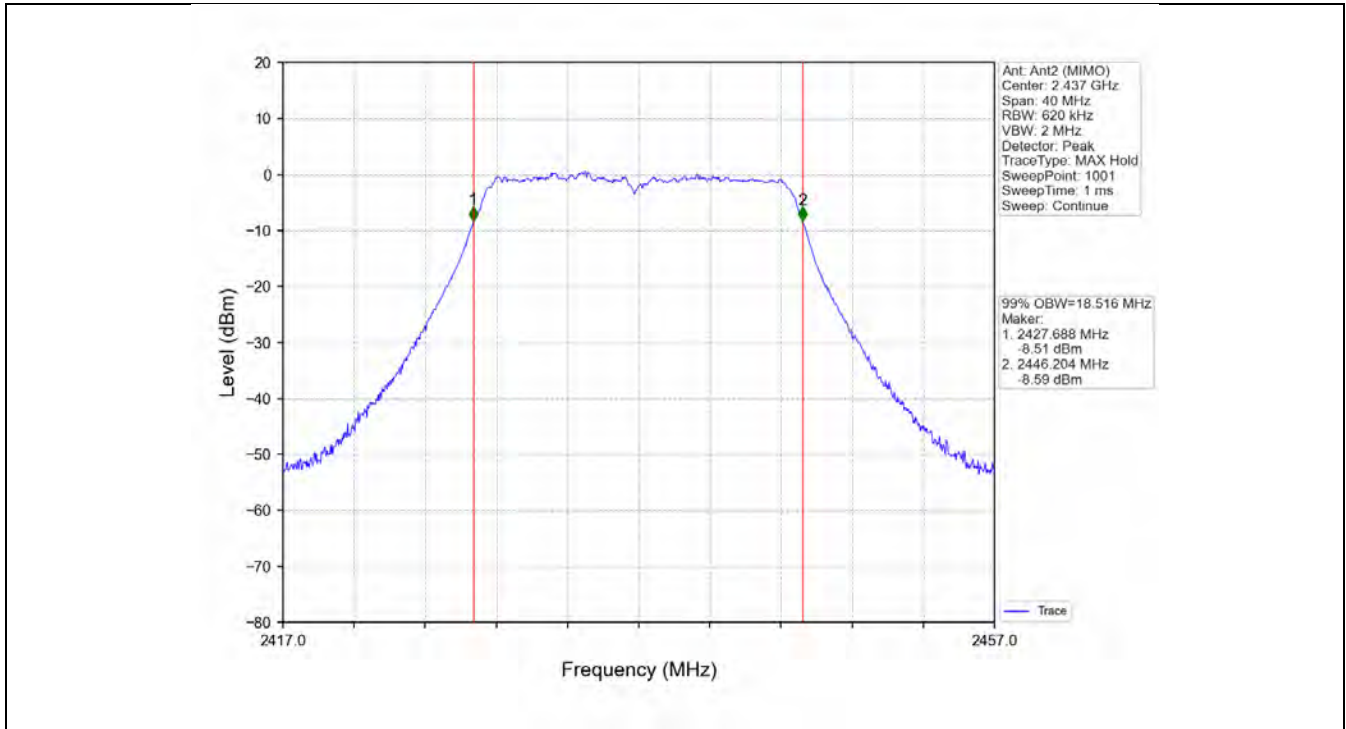


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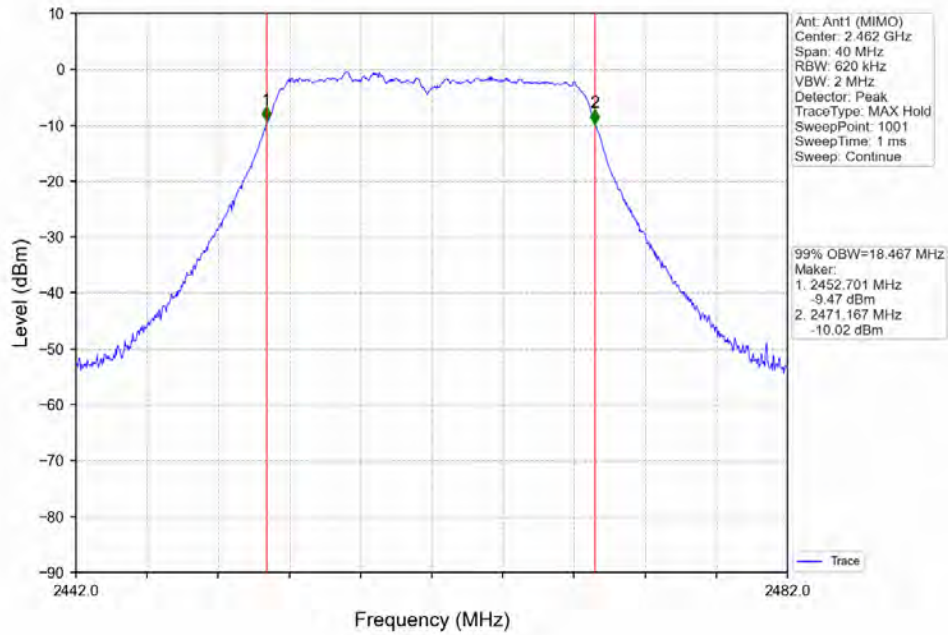
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802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

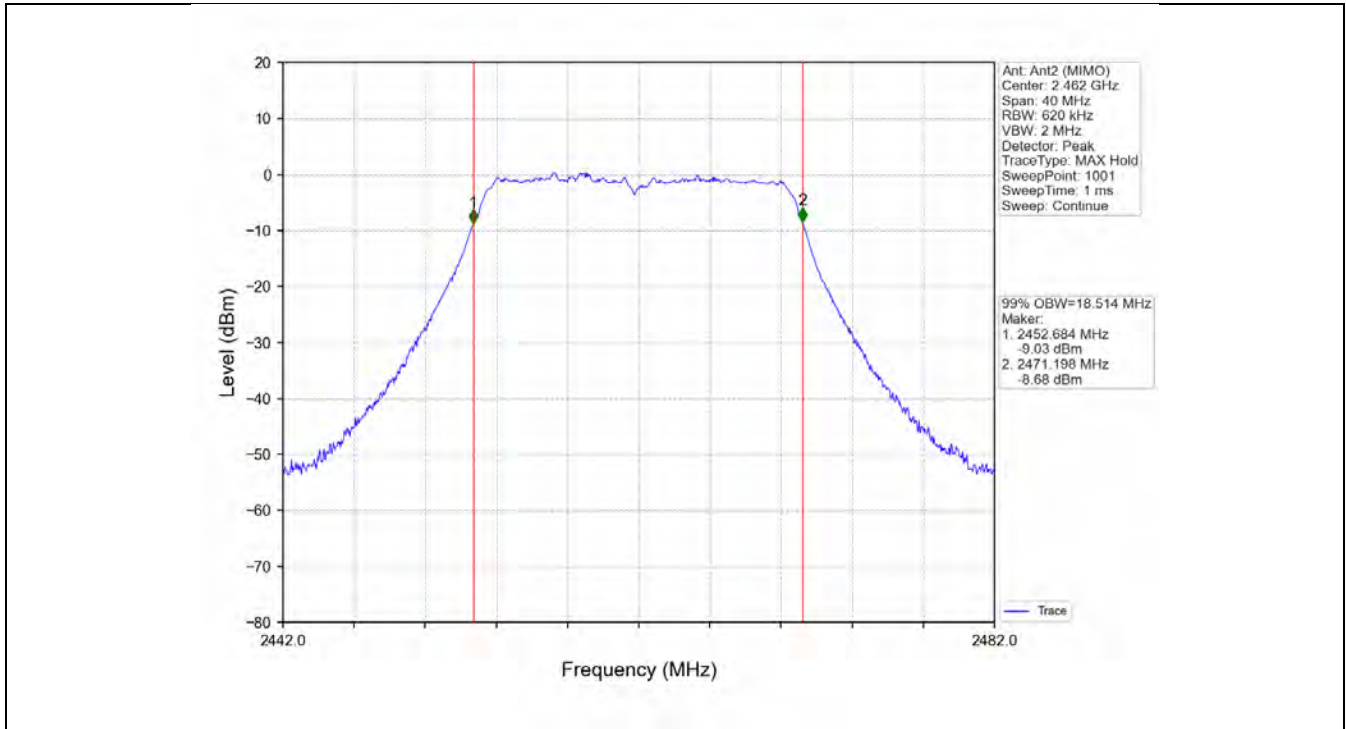


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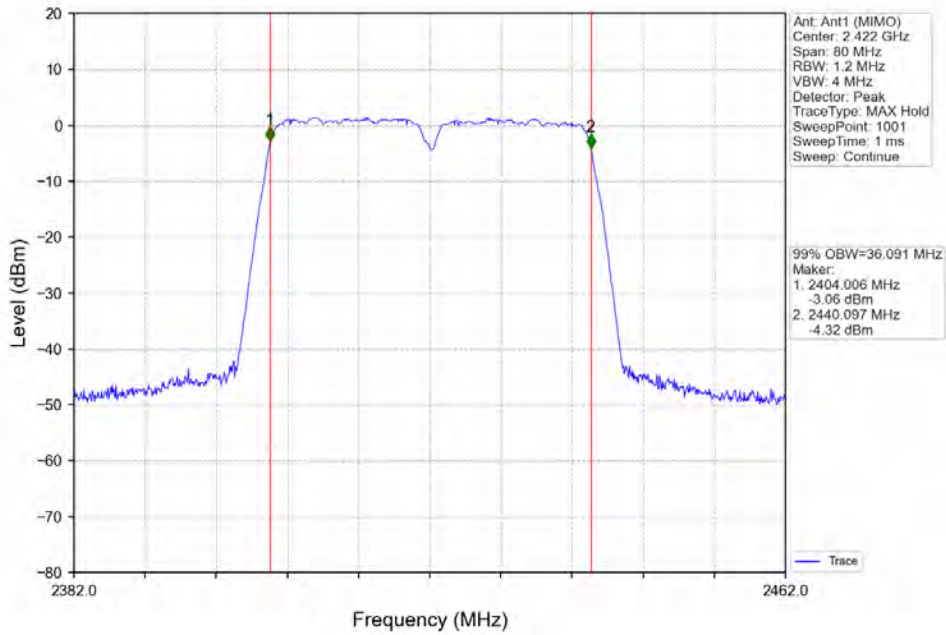
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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

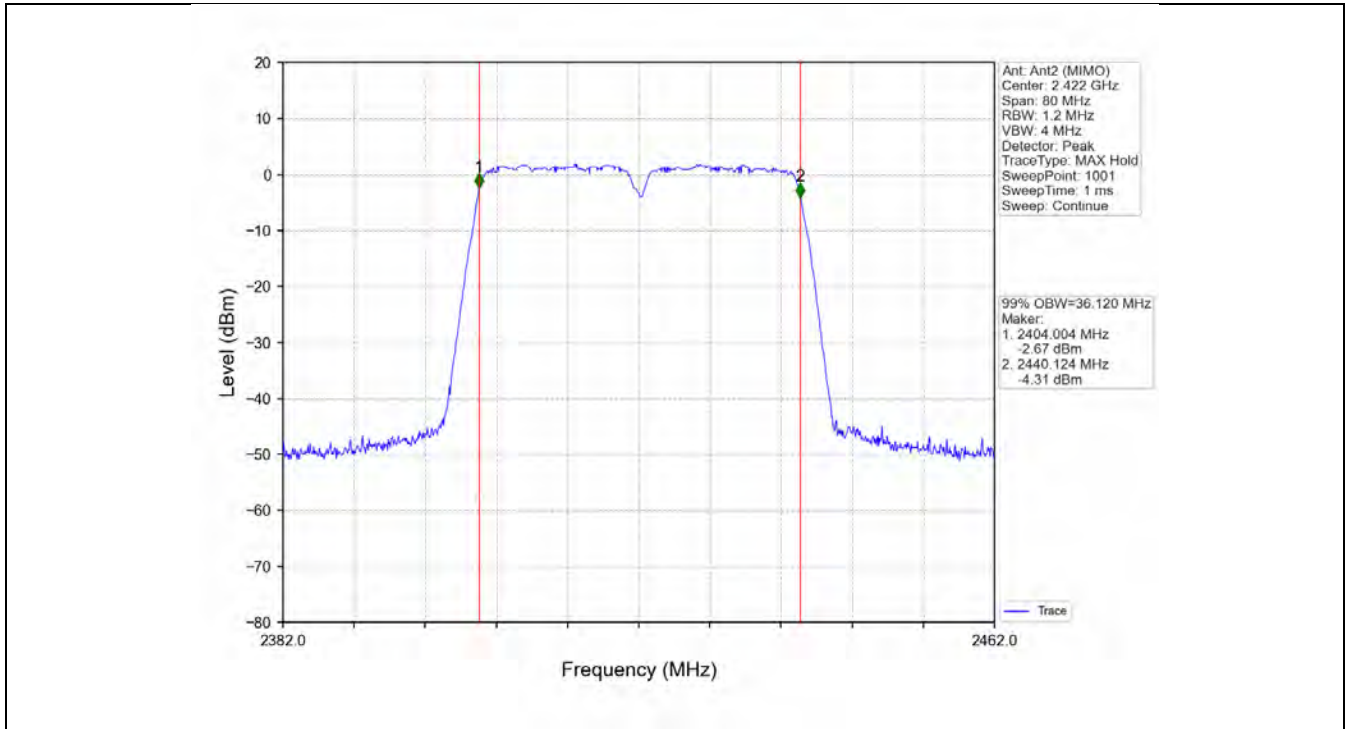


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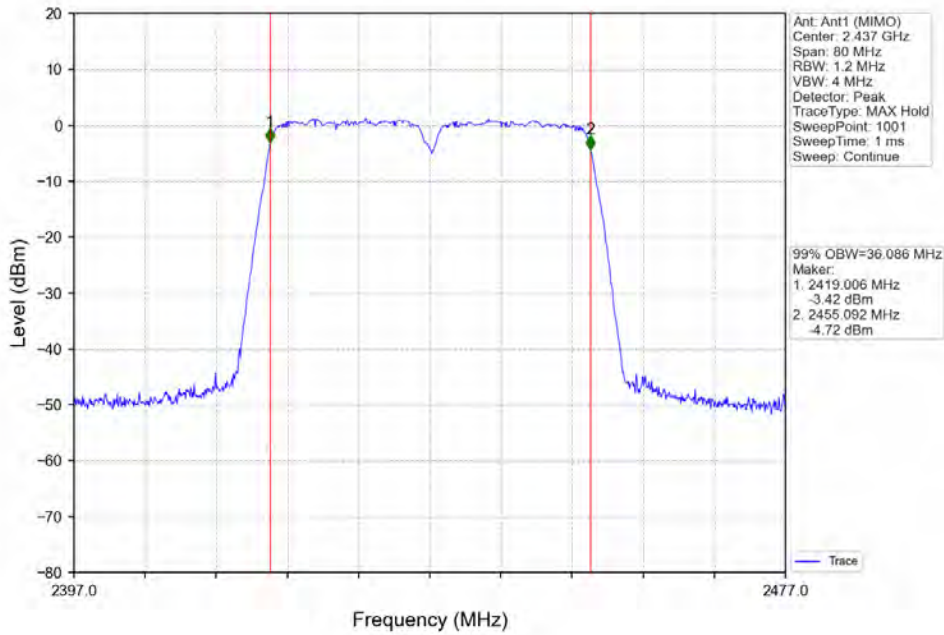
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802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

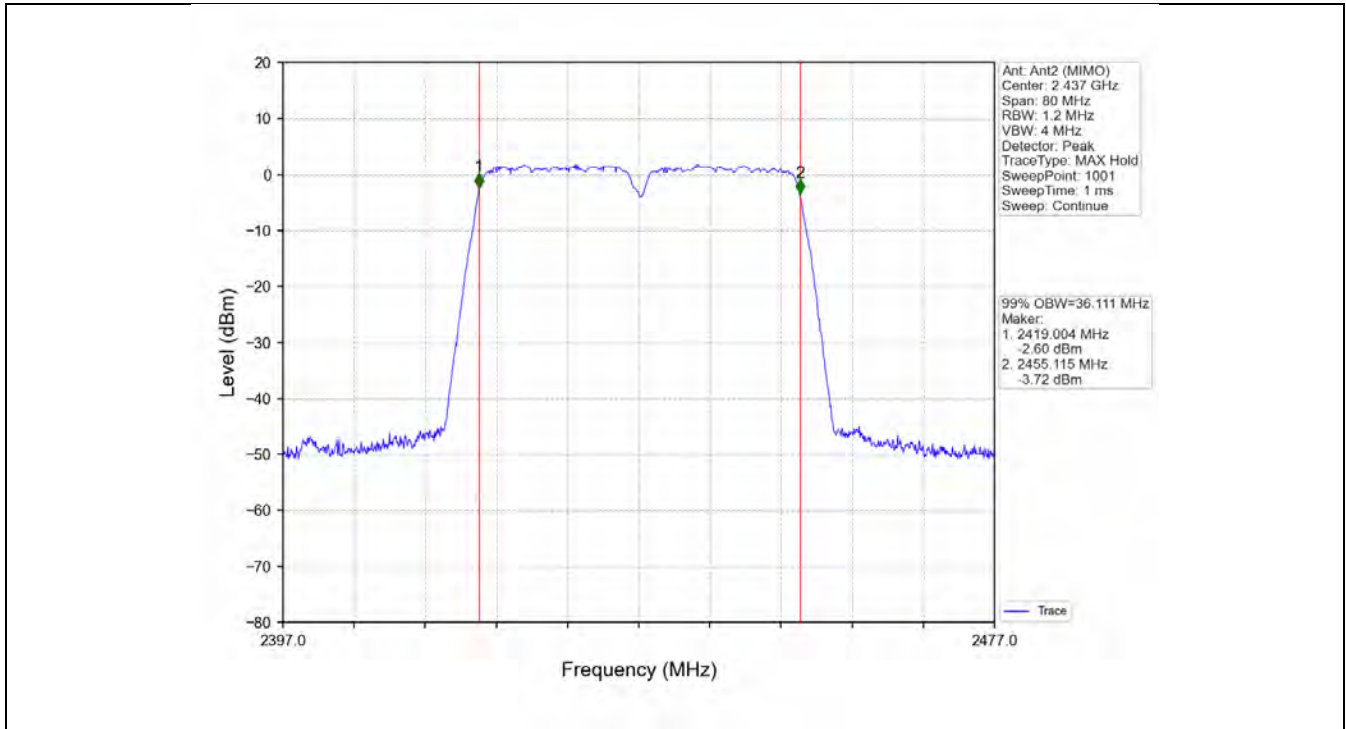


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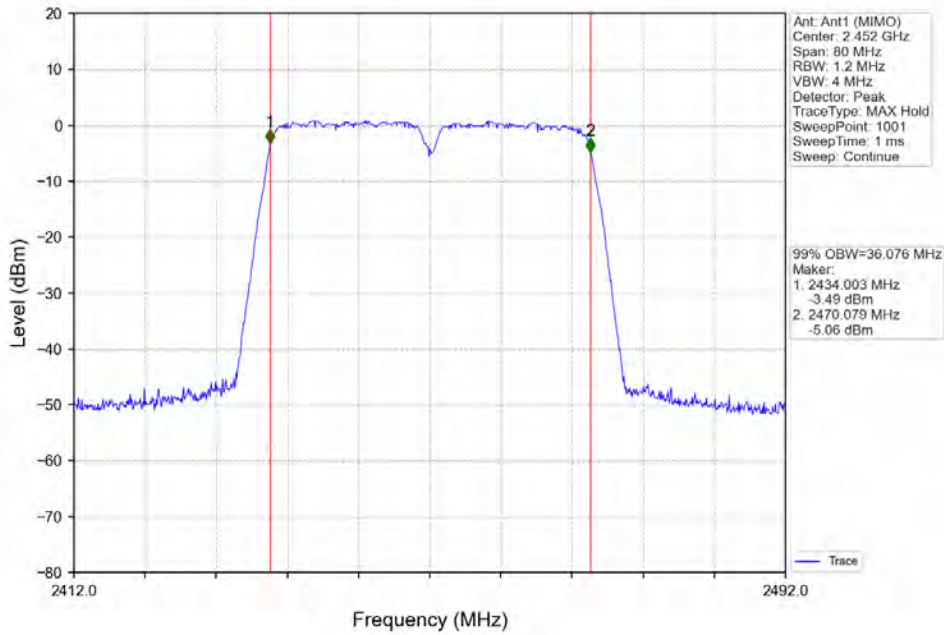
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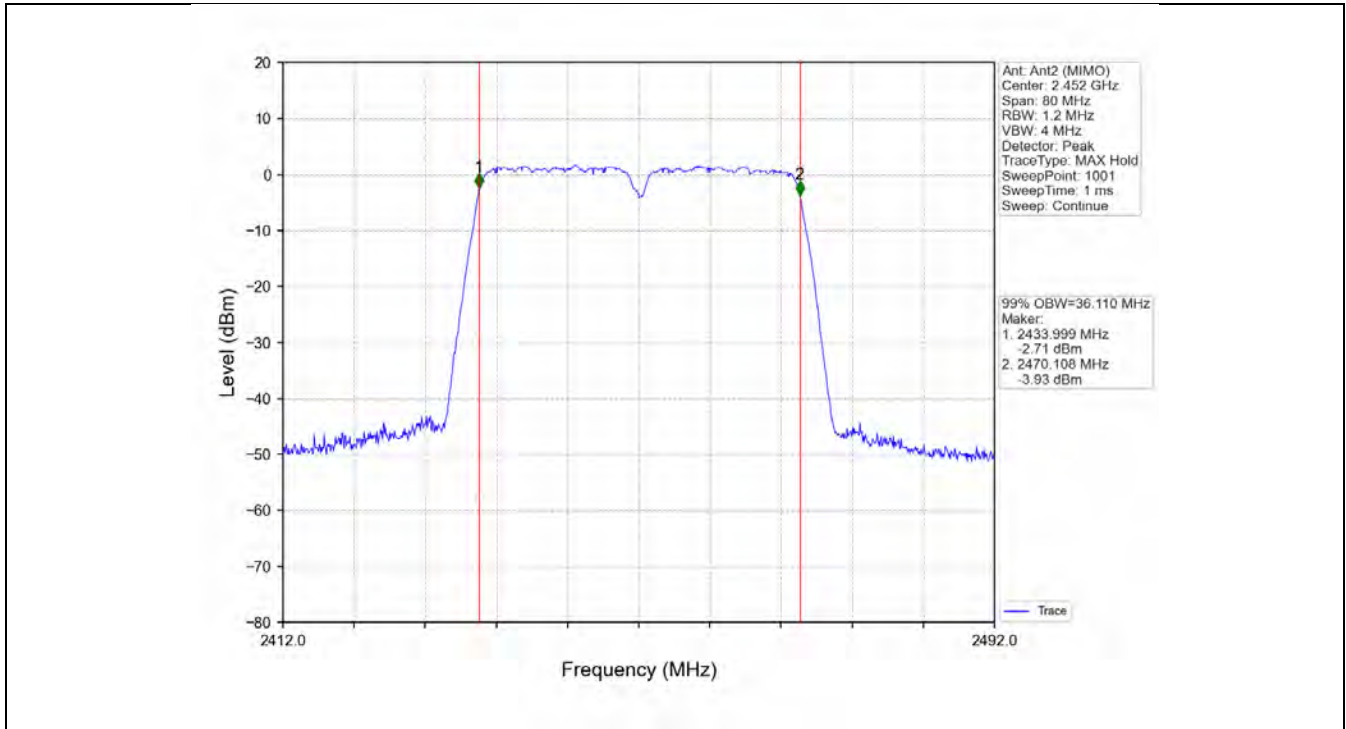


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## 2.2 6dB BW

### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.094	>=0.5	Pass
			2	10.106	>=0.5	Pass
		2437	1	10.108	>=0.5	Pass
			2	10.110	>=0.5	Pass
		2462	1	10.107	>=0.5	Pass
			2	10.108	>=0.5	Pass
802.11g	SISO	2412	1	16.593	>=0.5	Pass
			2	16.595	>=0.5	Pass
		2437	1	16.594	>=0.5	Pass
			2	16.597	>=0.5	Pass
		2462	1	16.590	>=0.5	Pass
			2	16.597	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.781	>=0.5	Pass
			2	17.782	>=0.5	Pass
		2437	1	17.766	>=0.5	Pass
			2	17.777	>=0.5	Pass
		2462	1	17.763	>=0.5	Pass
			2	17.792	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	36.461	>=0.5	Pass
			2	36.449	>=0.5	Pass
		2437	1	36.438	>=0.5	Pass
			2	36.458	>=0.5	Pass
		2452	1	36.435	>=0.5	Pass
			2	36.453	>=0.5	Pass



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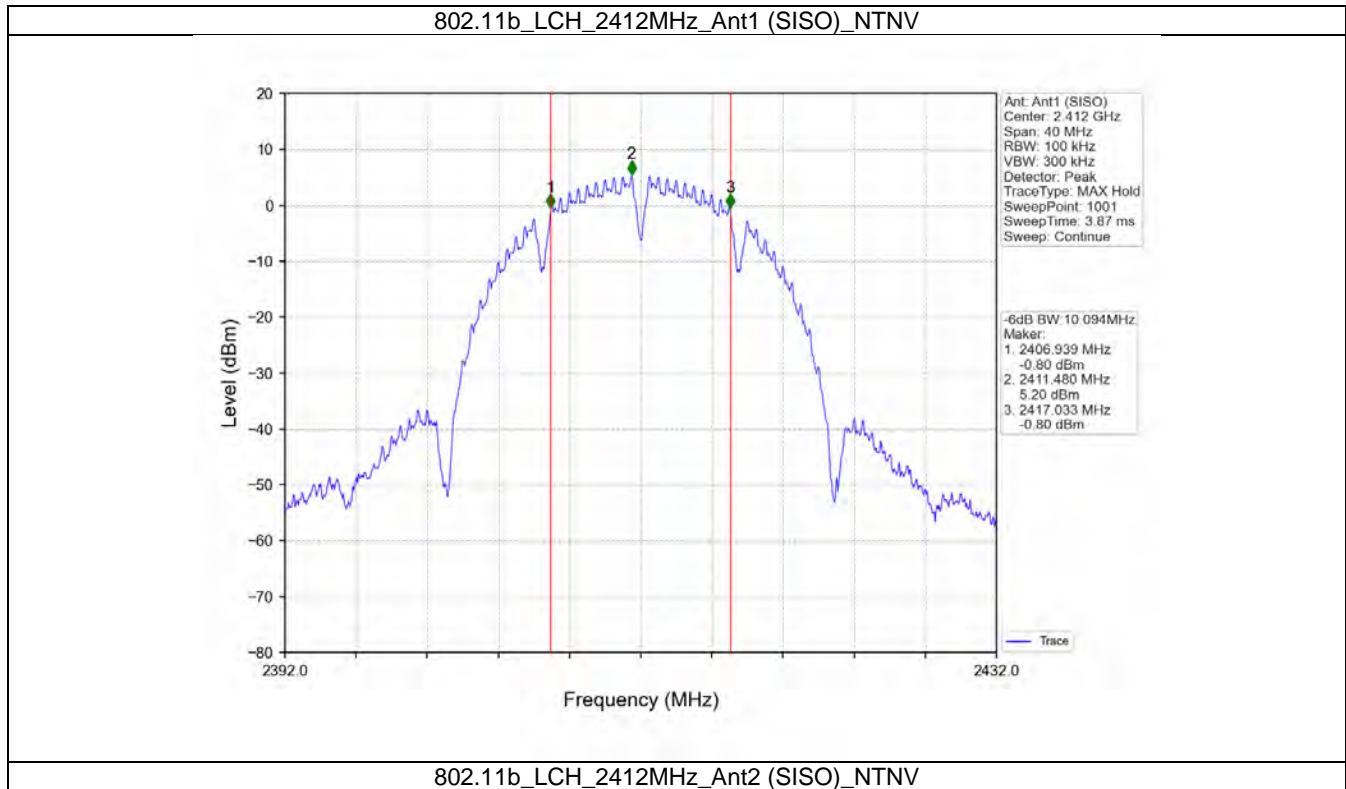
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### 2.2.2 Test Graph



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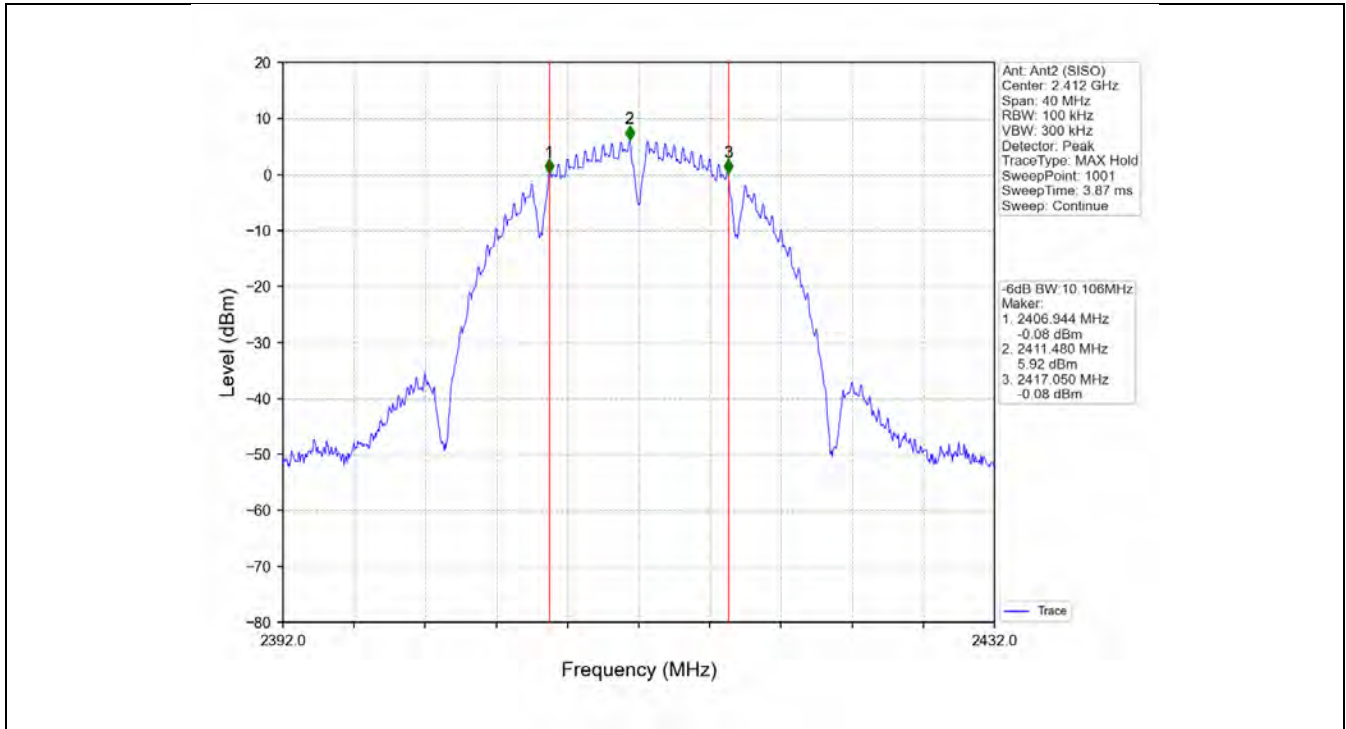
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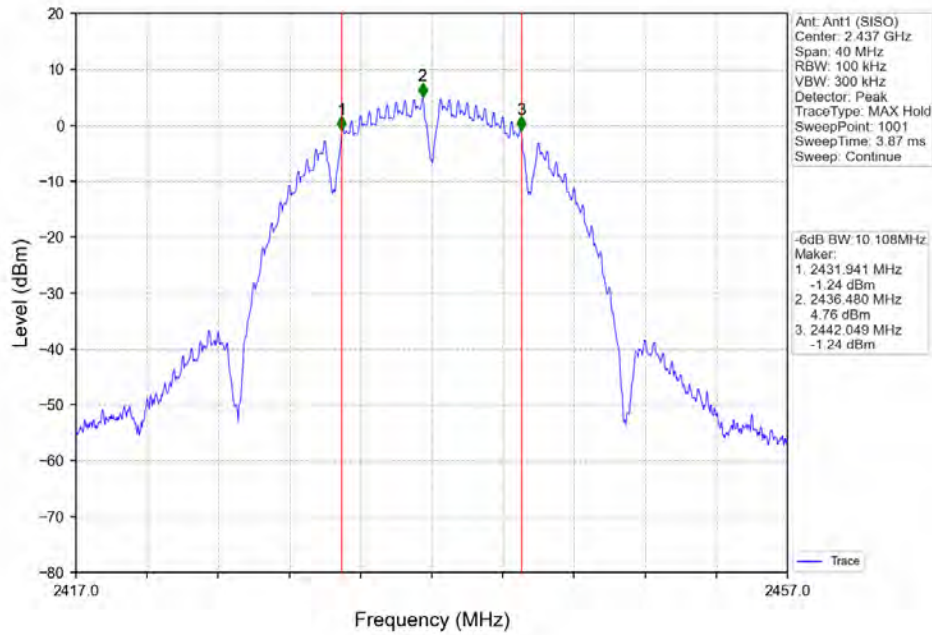
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802.11b\_MCH\_2437MHz\_Ant2 (SISO)\_NTNV

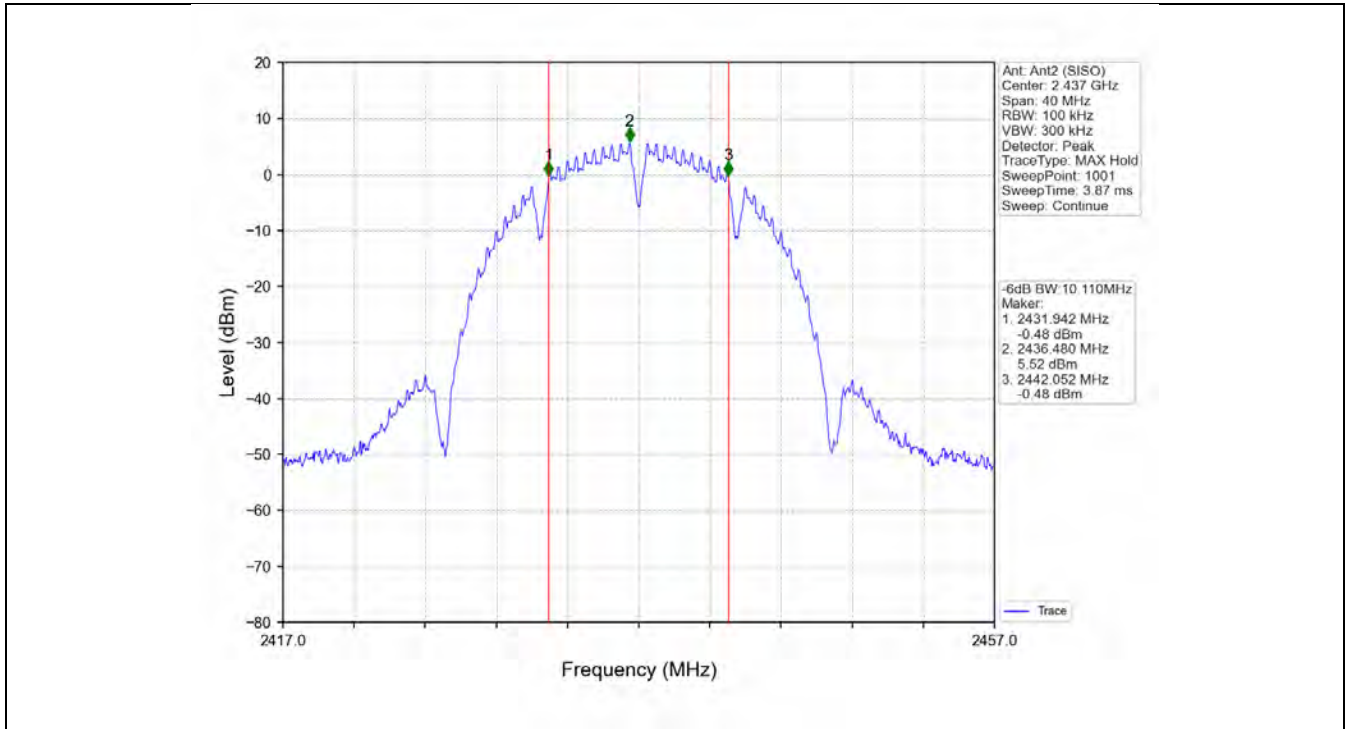


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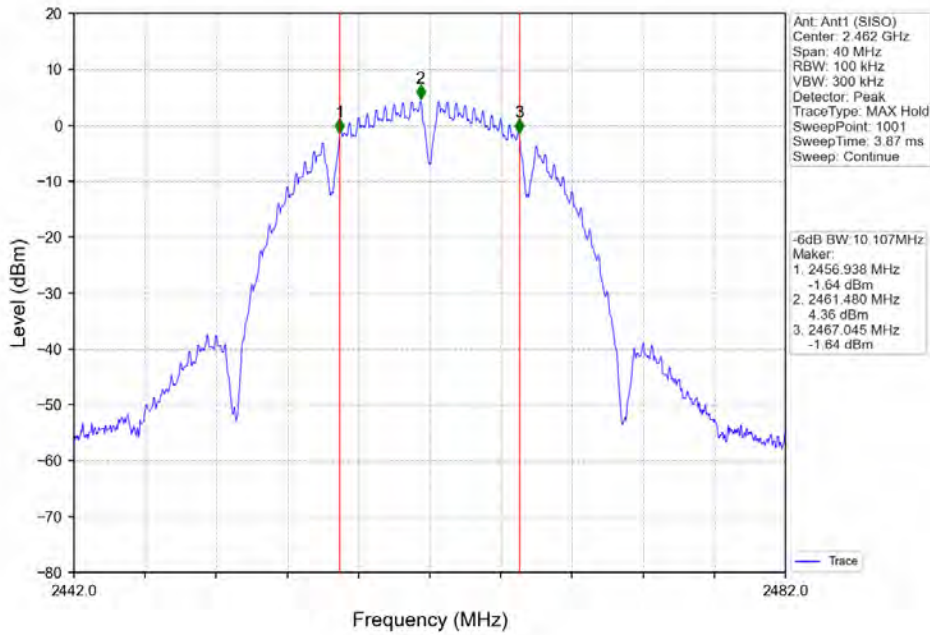
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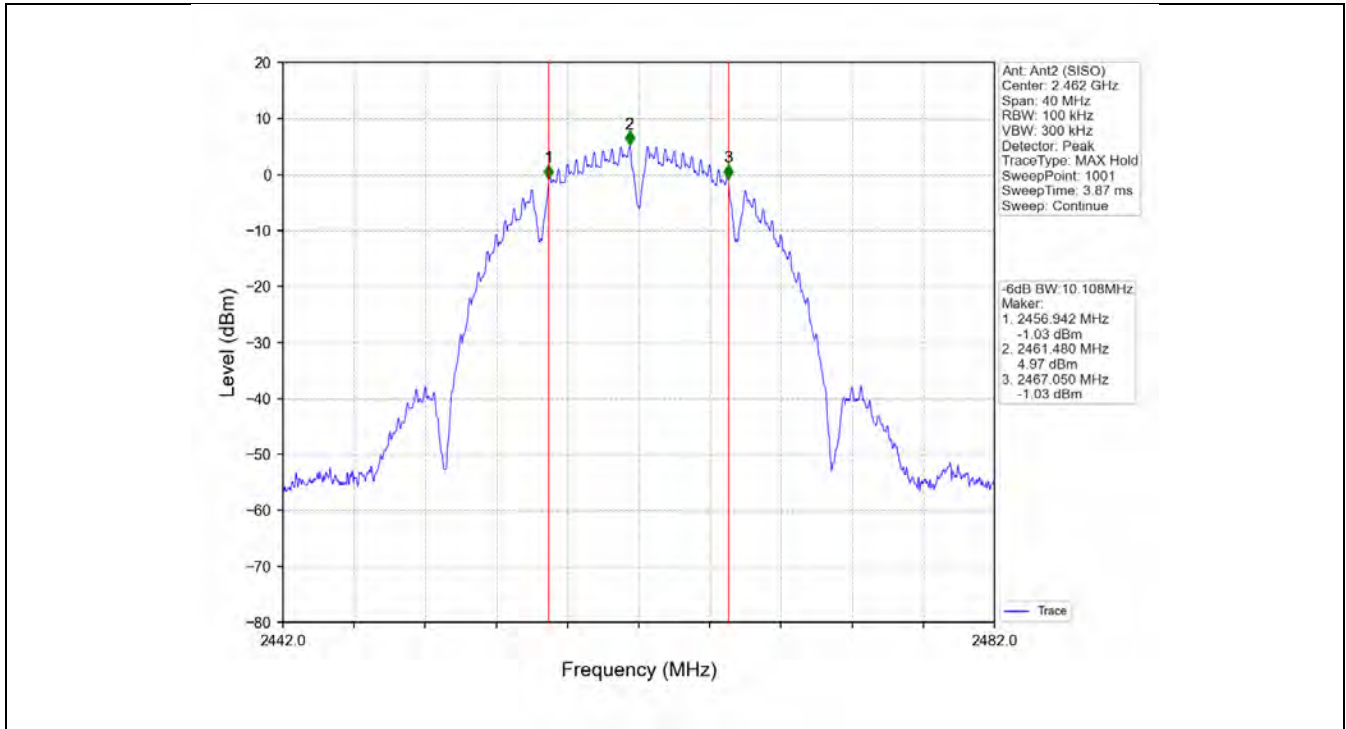


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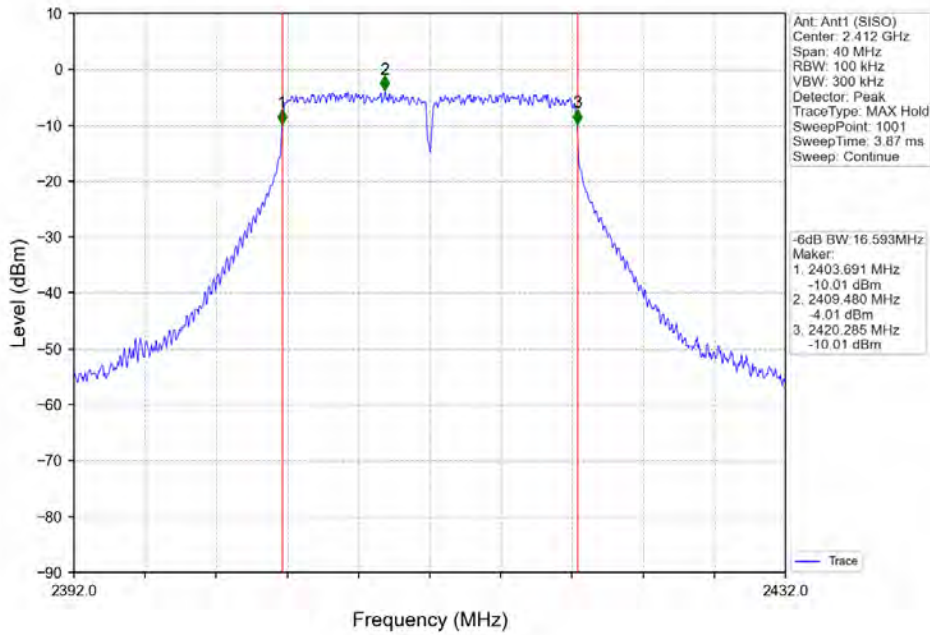
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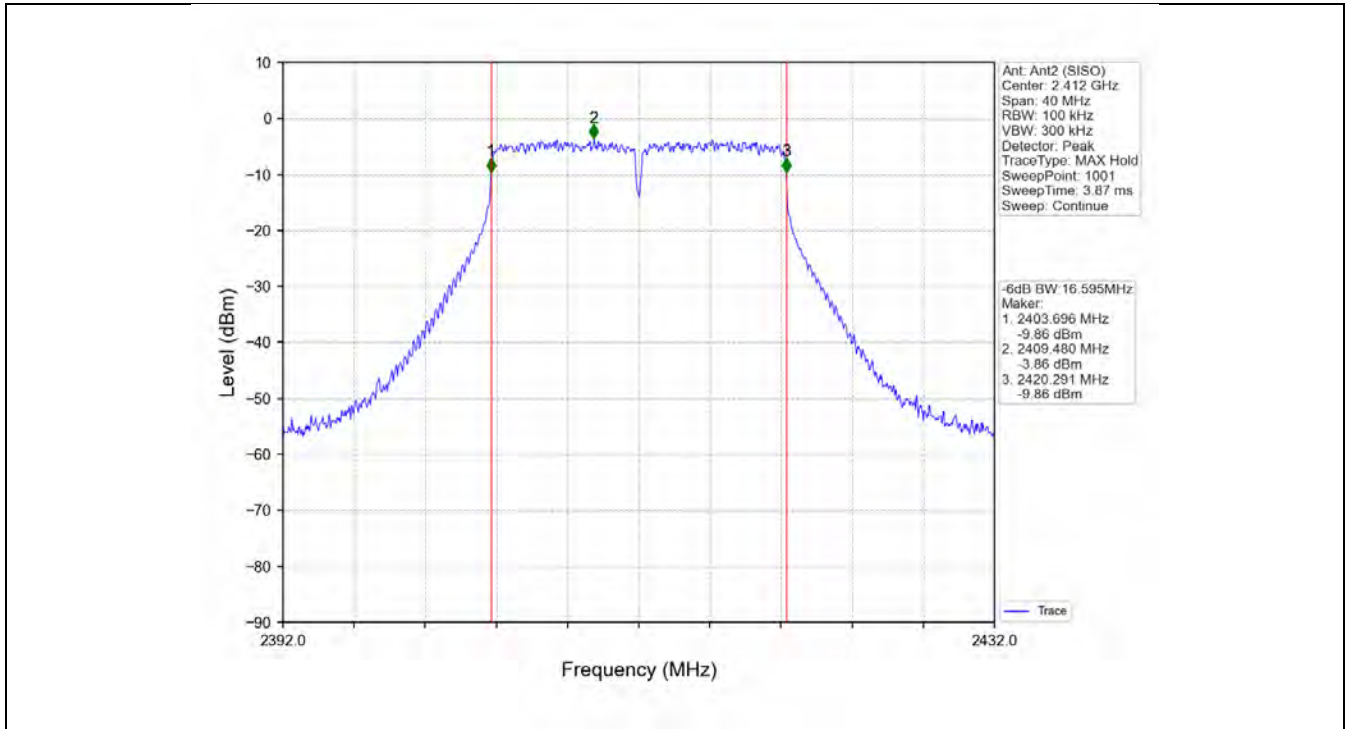
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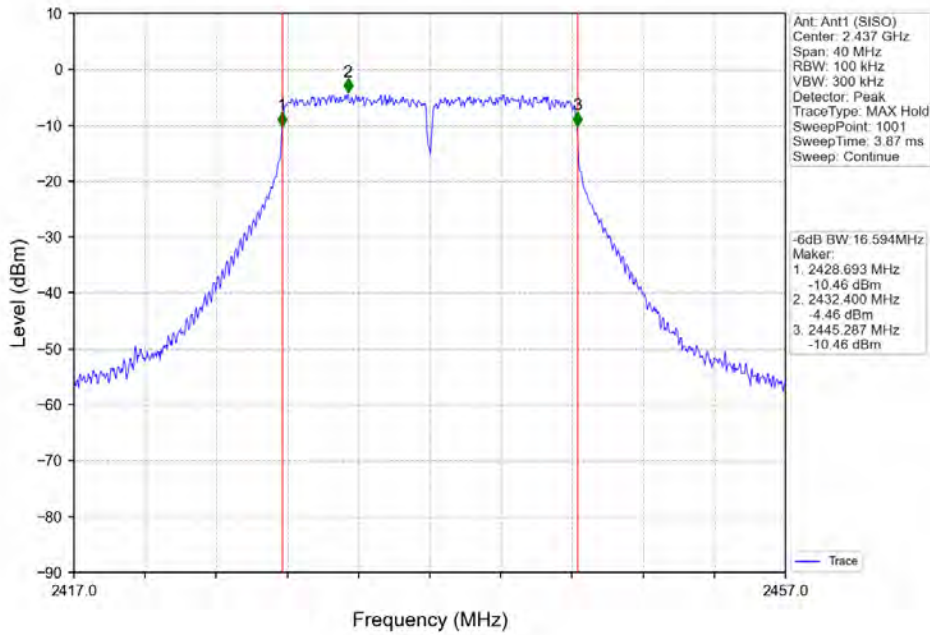


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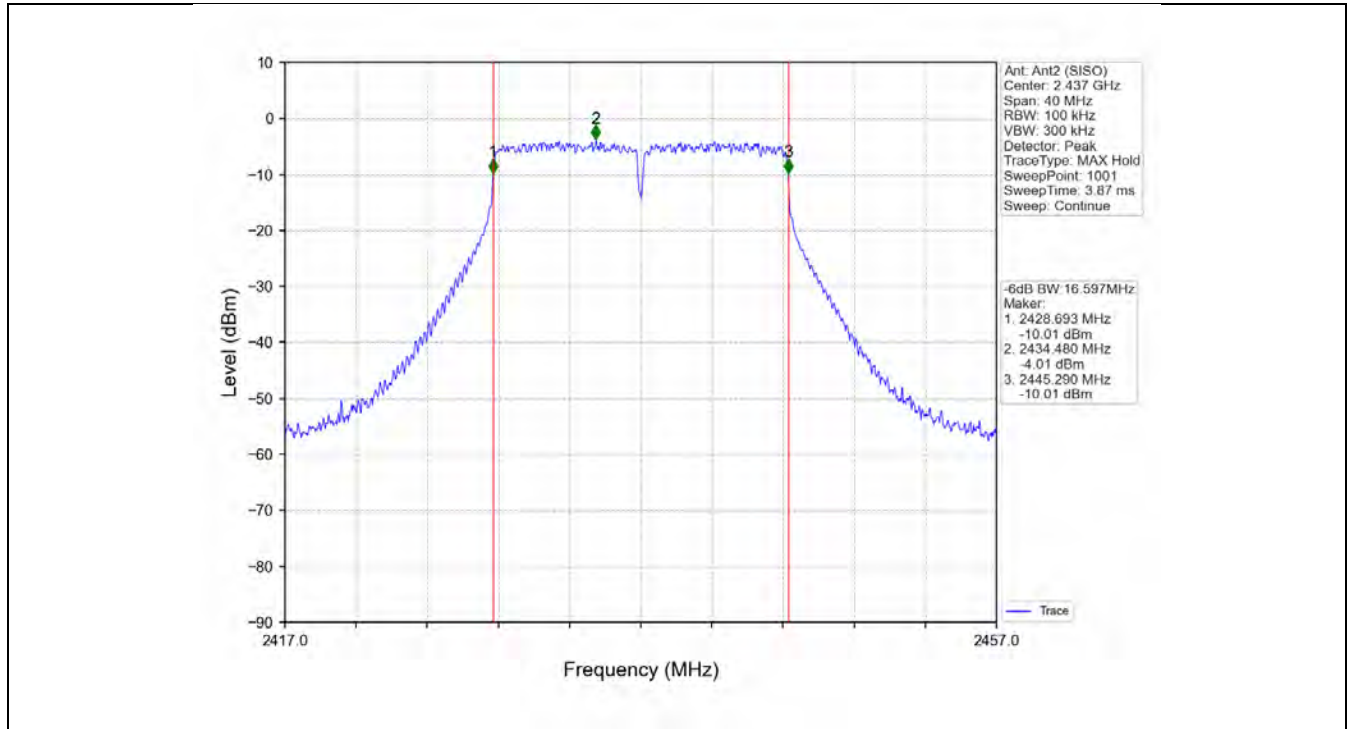


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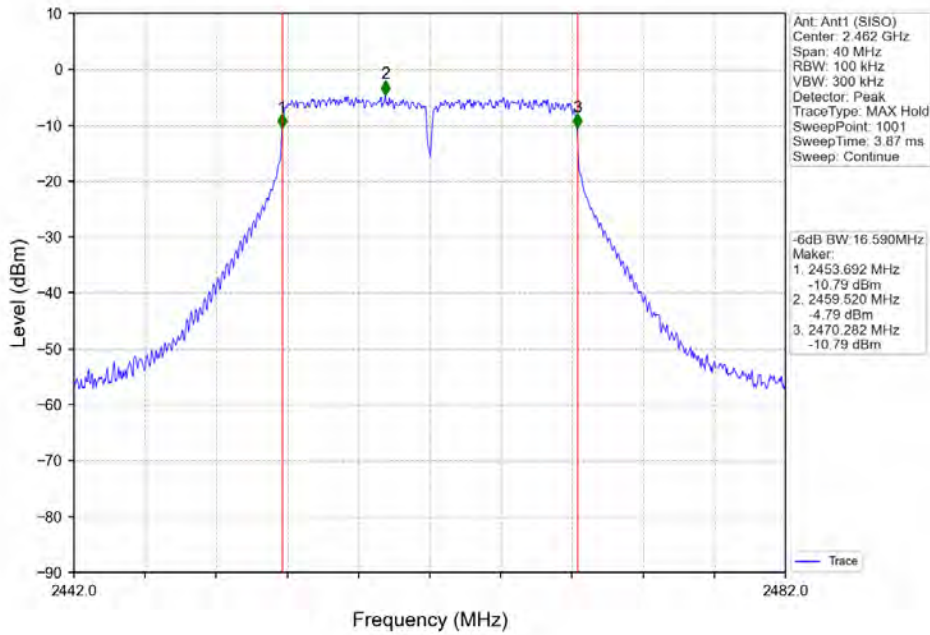
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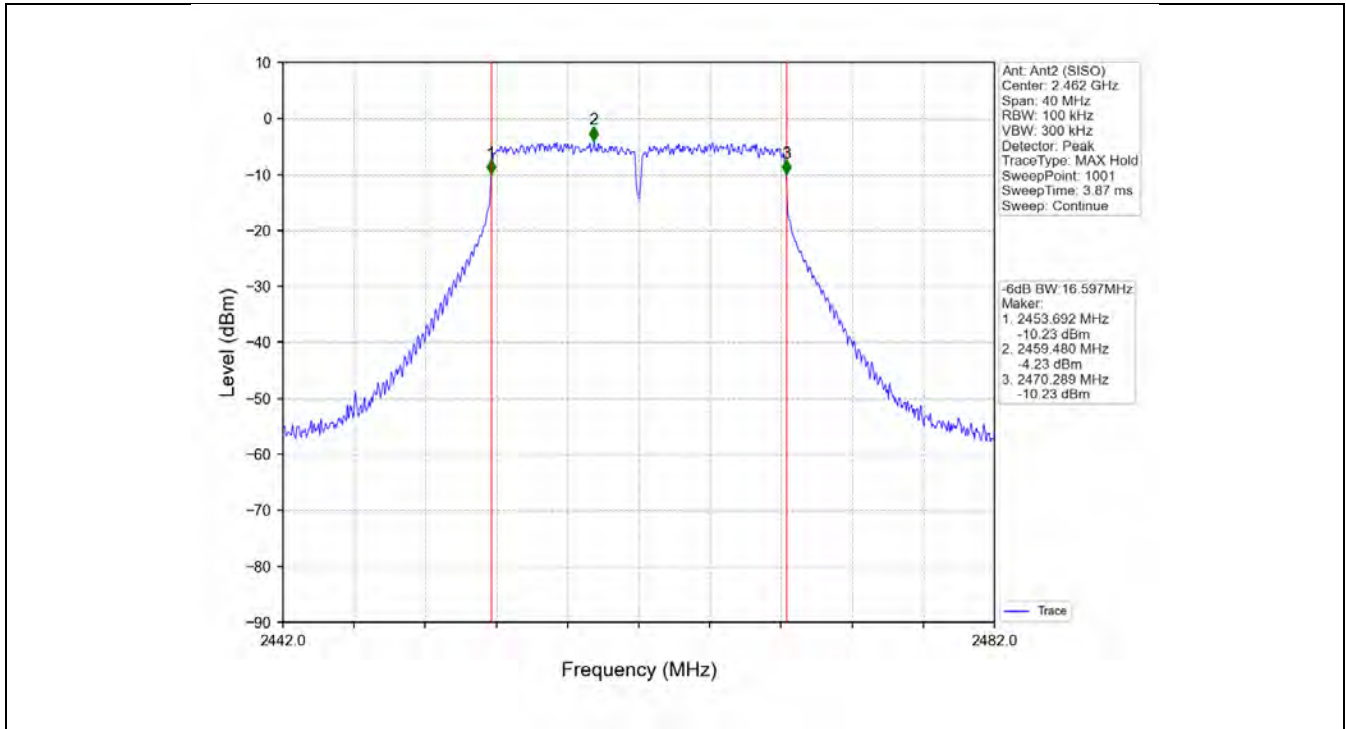


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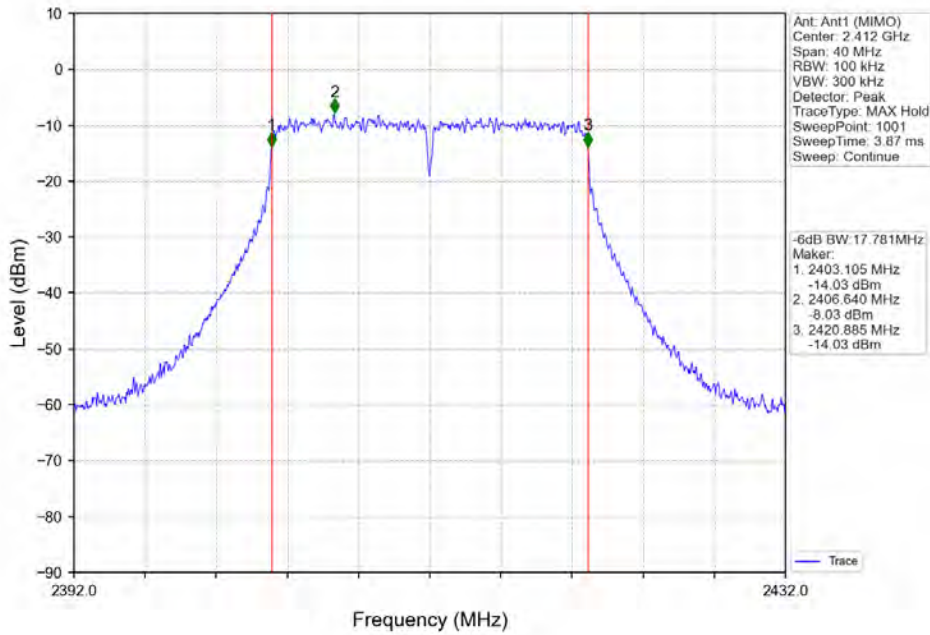


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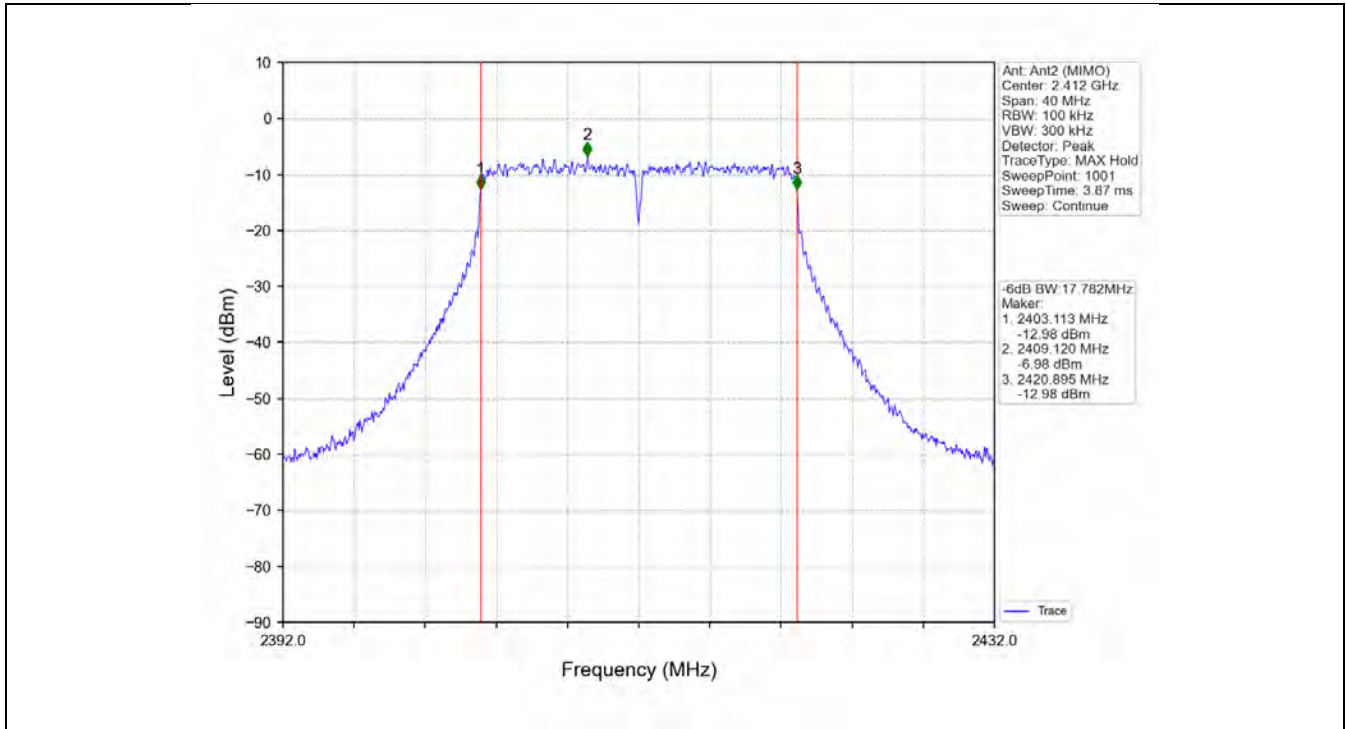
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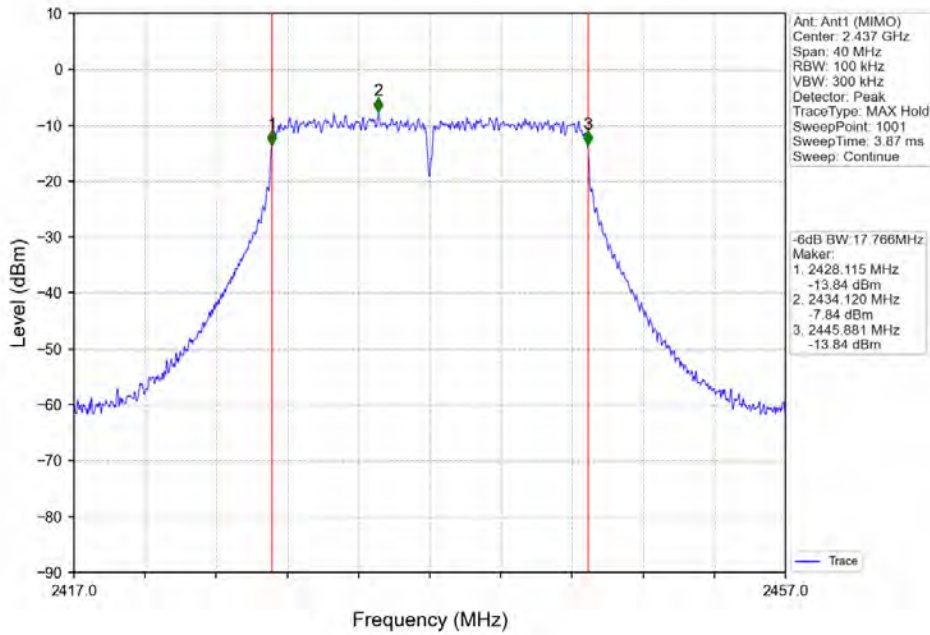
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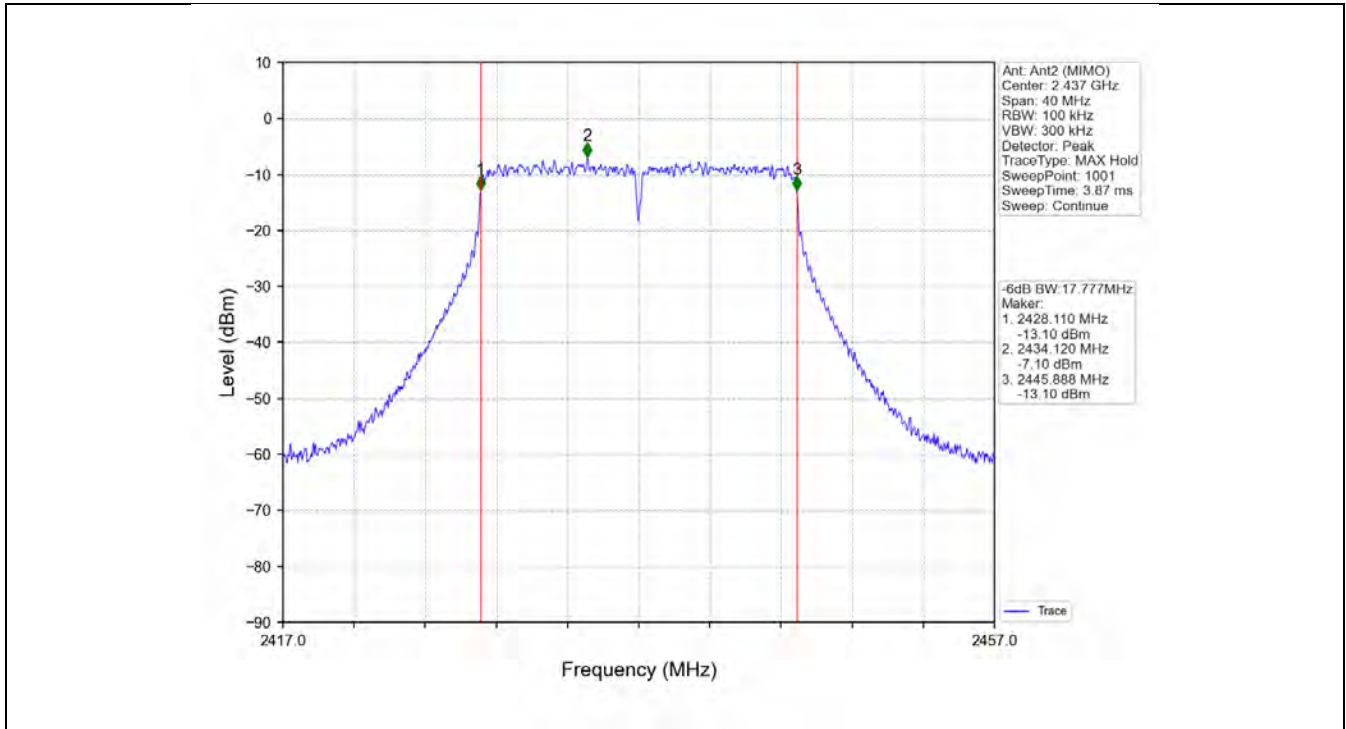


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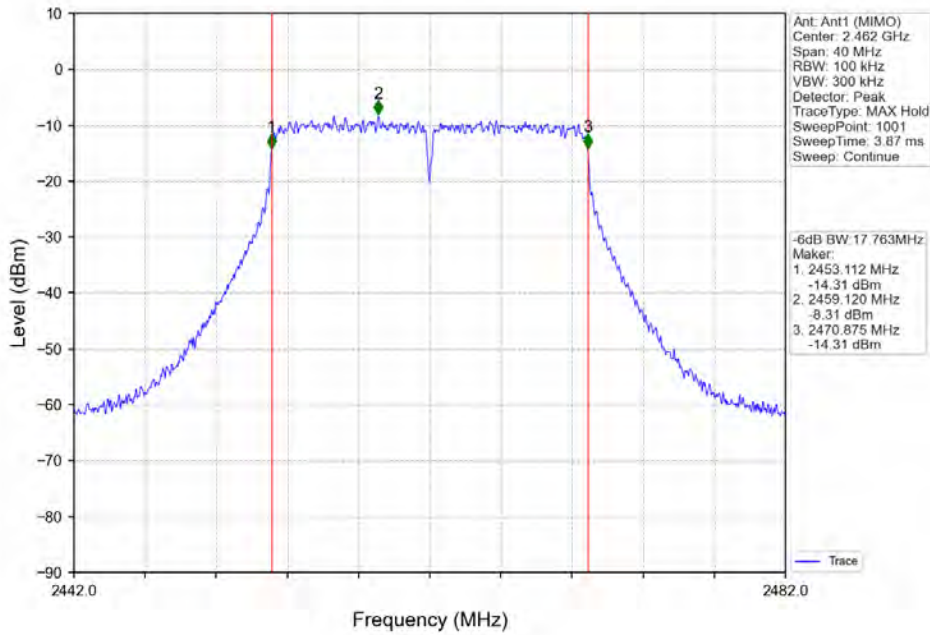
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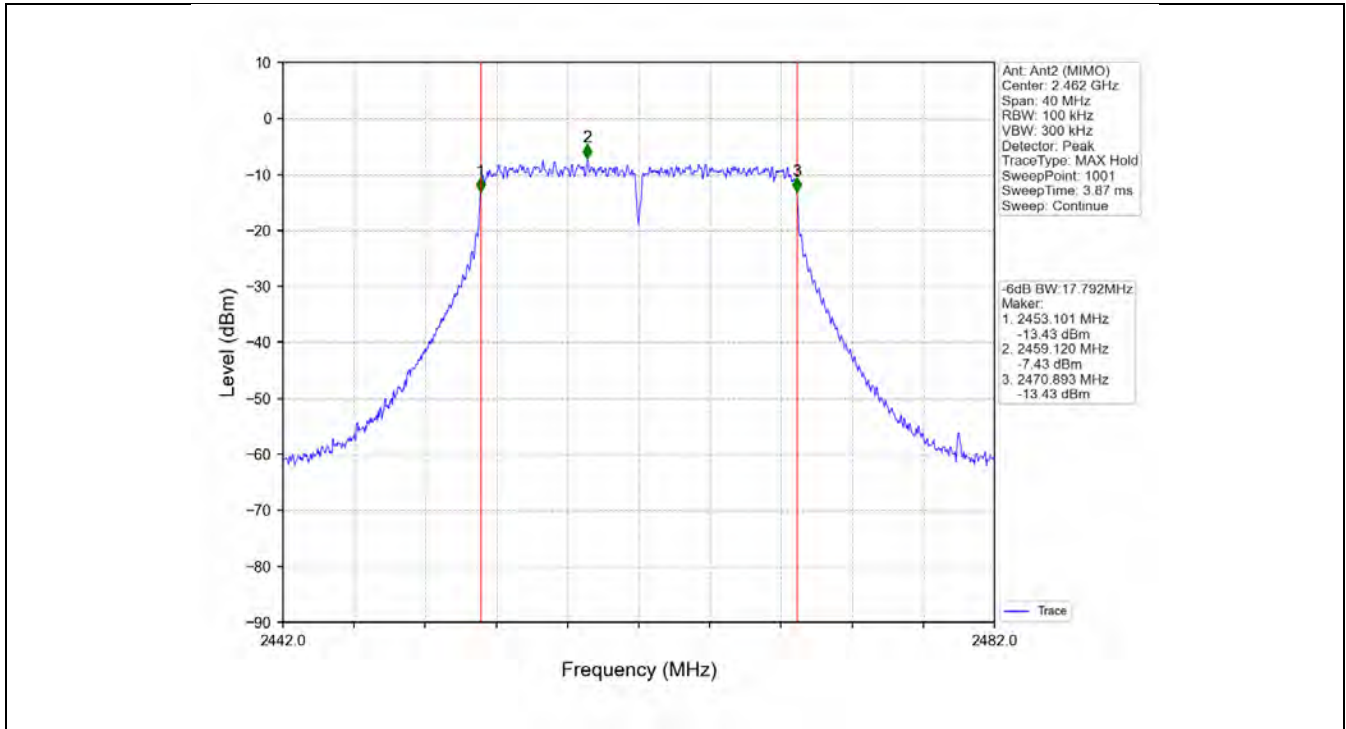


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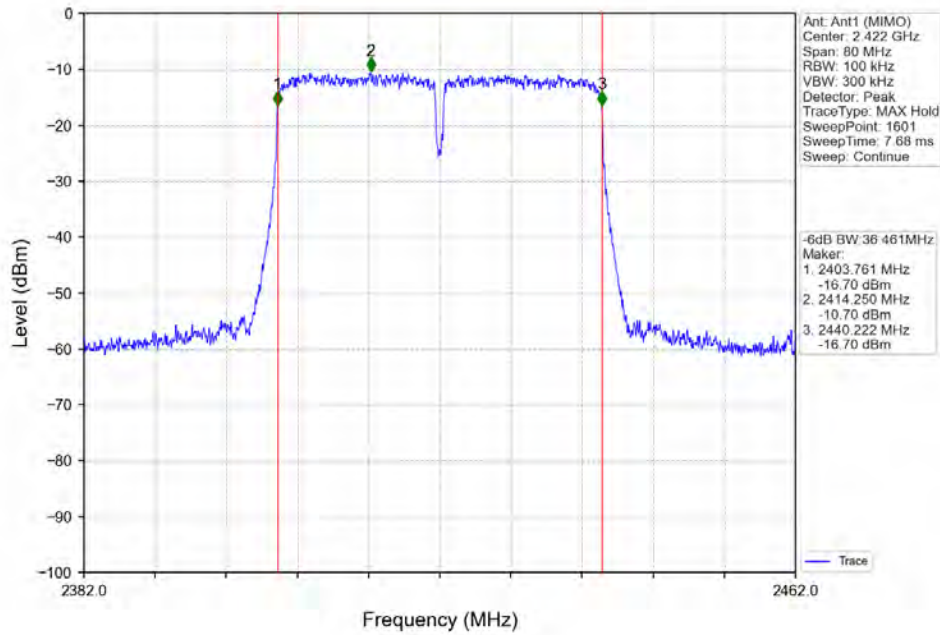
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



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



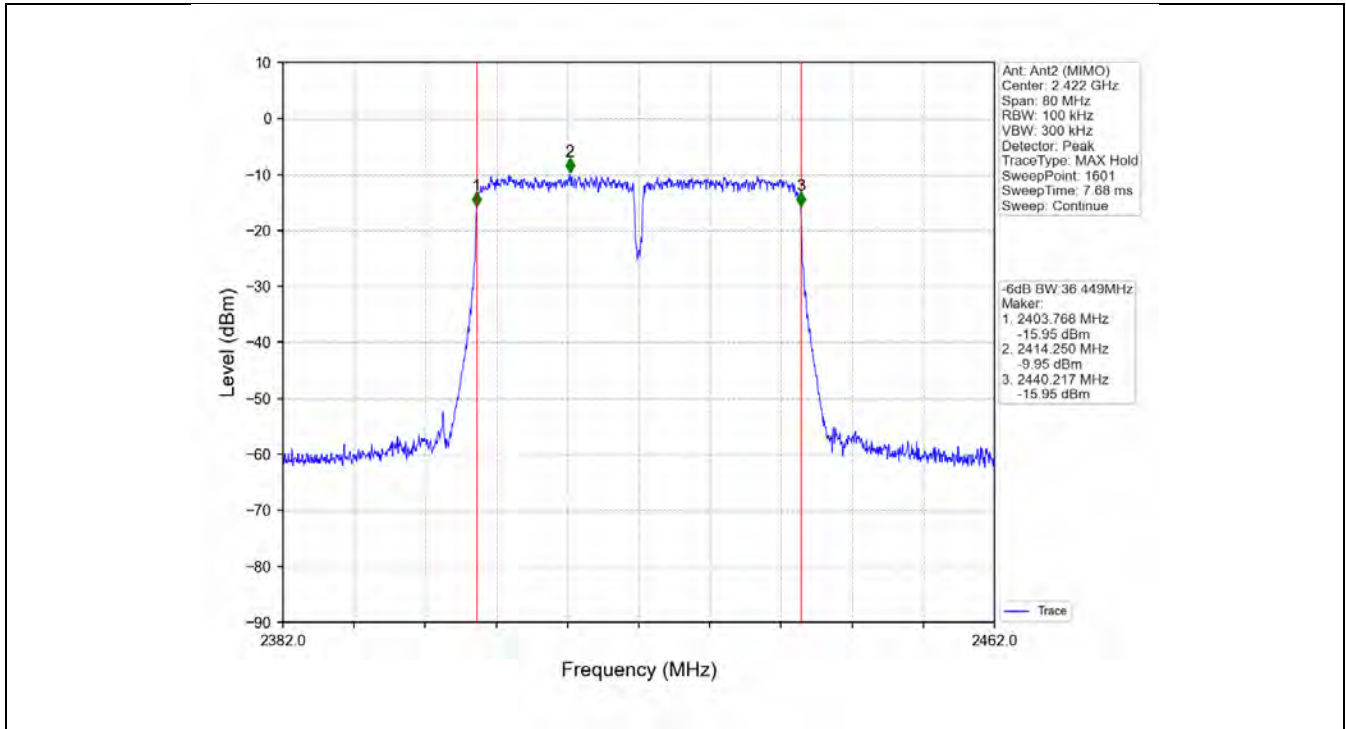
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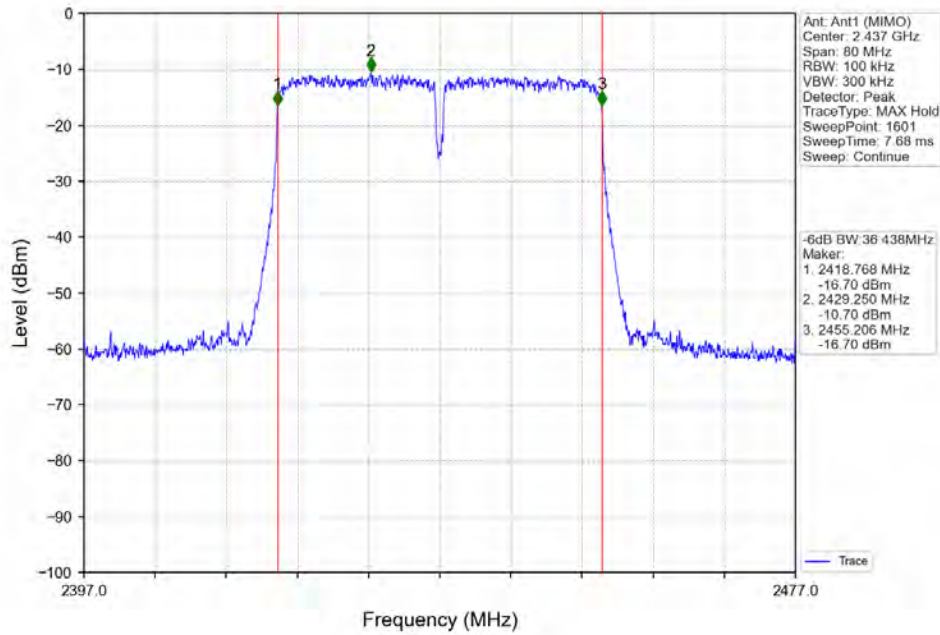
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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

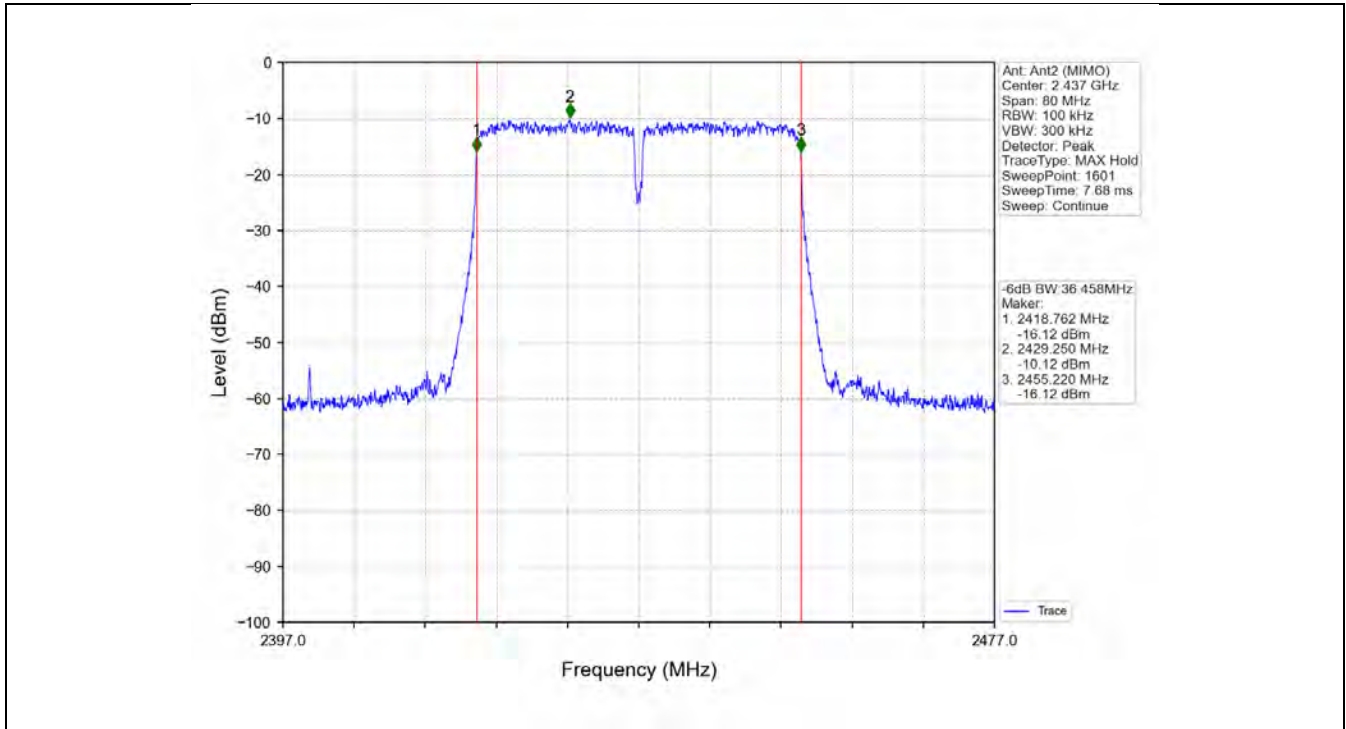


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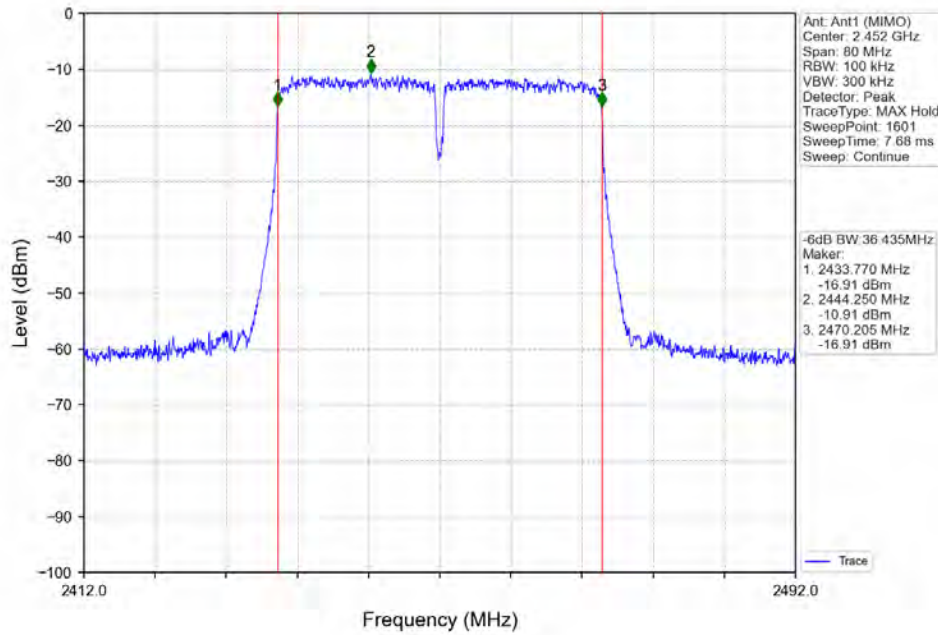
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



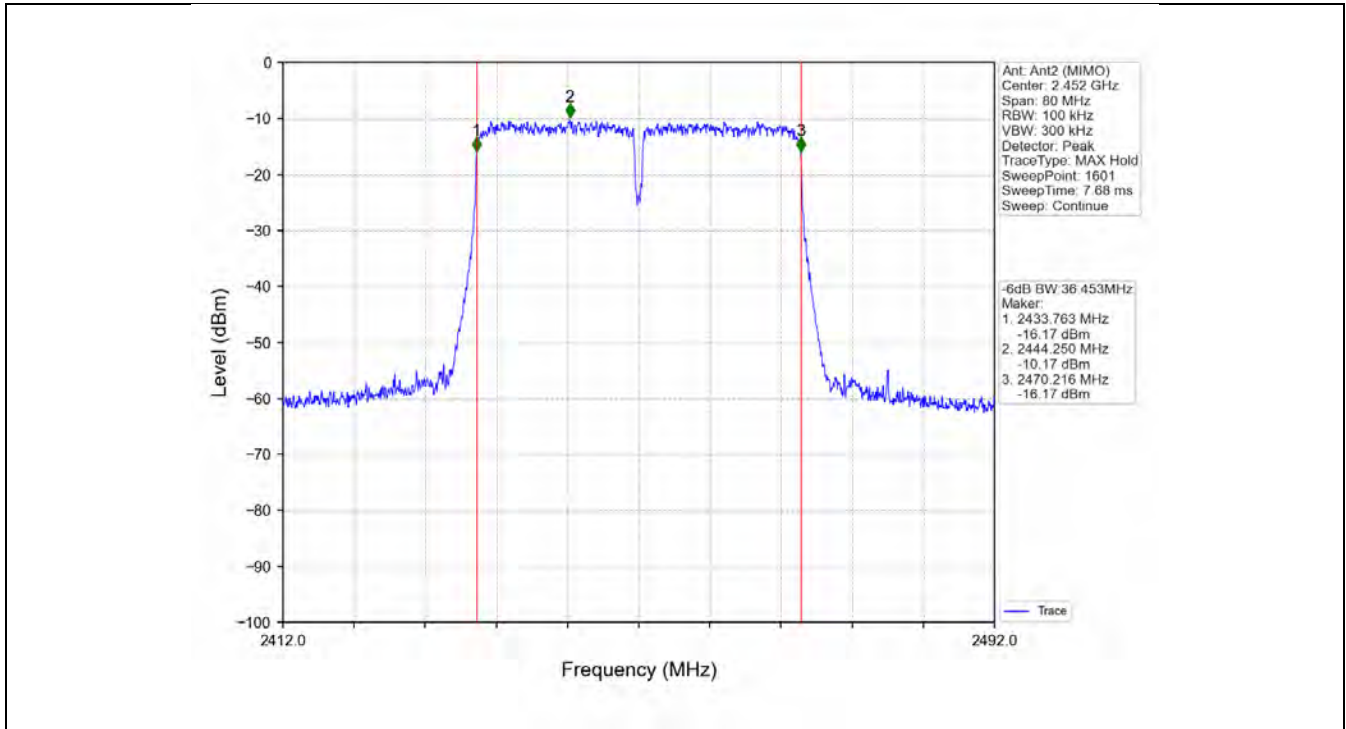
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### 3. Maximum Conducted Output Power

#### 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	17.54	17.74	/	<=30	Pass
		2437	17.12	17.94	/	<=30	Pass
		2462	17.20	17.35	/	<=30	Pass
802.11g	SISO	2412	17.74	17.99	/	<=30	Pass
		2437	17.37	17.82	/	<=30	Pass
		2462	16.92	17.61	/	<=30	Pass
802.11n (HT20)	MIMO	2412	13.58	14.56	17.11	<=30	Pass
		2437	13.65	14.39	17.05	<=30	Pass
		2462	13.17	14.17	16.71	<=30	Pass
802.11n (HT40)	MIMO	2422	14.31	14.85	17.60	<=30	Pass
		2437	14.07	14.73	17.42	<=30	Pass
		2452	13.79	14.60	17.22	<=30	Pass

Note1: Antenna Gain: Ant1: 2.15dBi; Ant2: 2.15dBi;  
Note2: Directional Gain: 5.16dBi

### 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	-14.97	-14.29	/	<=8	Pass
		2437	-15.41	-14.67	/	<=8	Pass
		2462	-15.34	-15.20	/	<=8	Pass
802.11g	SISO	2412	-18.54	-18.26	/	<=8	Pass
		2437	-18.97	-18.57	/	<=8	Pass
		2462	-19.41	-18.69	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-22.51	-21.09	-19.10	<=8	Pass
		2437	-21.93	-21.19	-18.53	<=8	Pass
		2462	-22.35	-21.87	-19.38	<=8	Pass
802.11n (HT40)	MIMO	2422	-23.55	-22.92	-20.47	<=8	Pass
		2437	-22.12	-23.30	-19.84	<=8	Pass
		2452	-22.73	-23.02	-20.52	<=8	Pass

Note1: Antenna Gain: Ant1: 2.15dBi; Ant2: 2.15dBi;



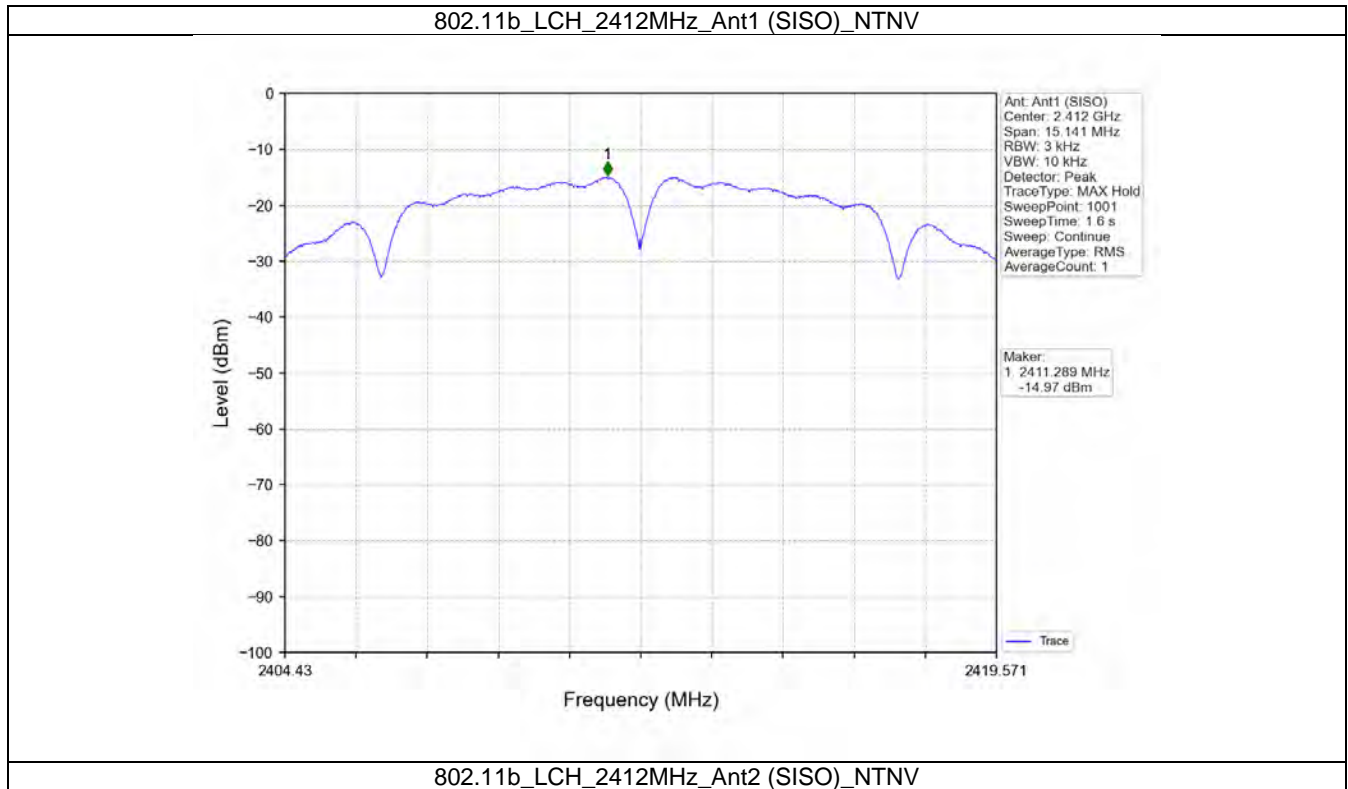
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### 4.1.2 Test Graph

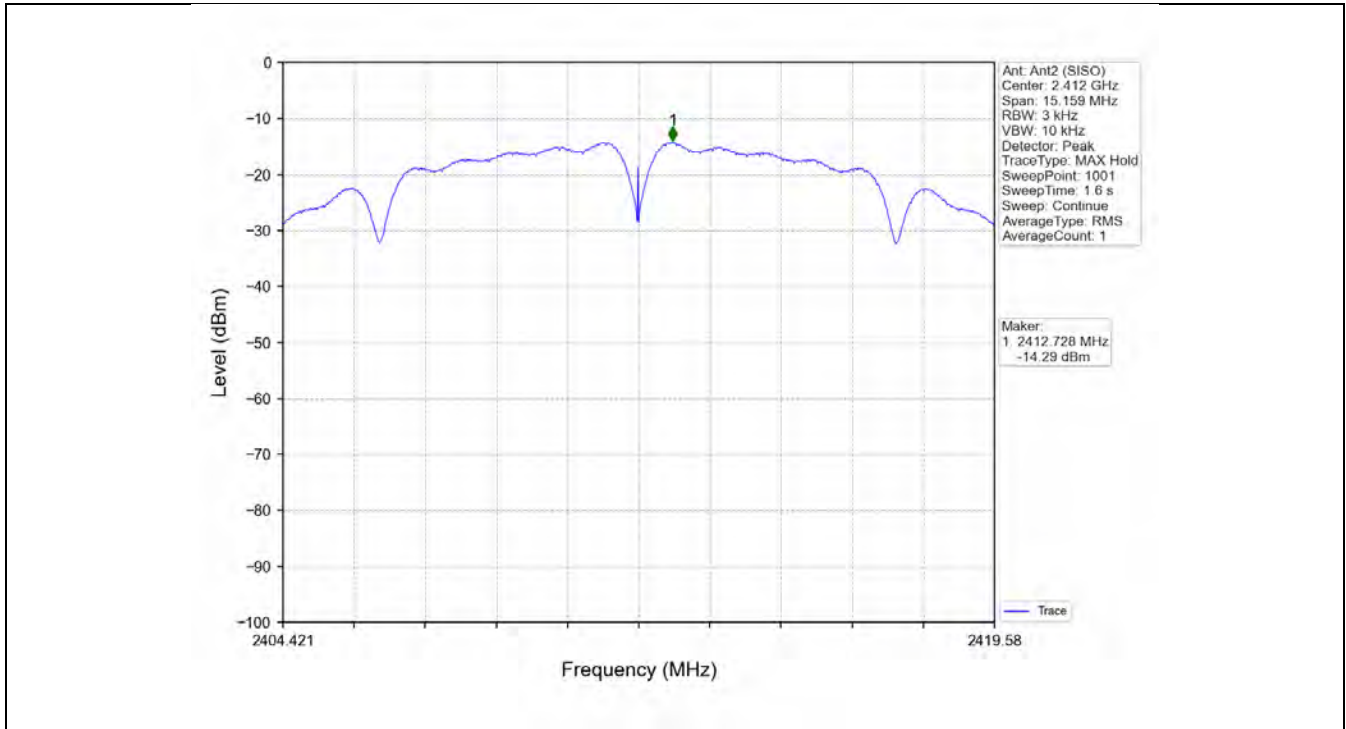


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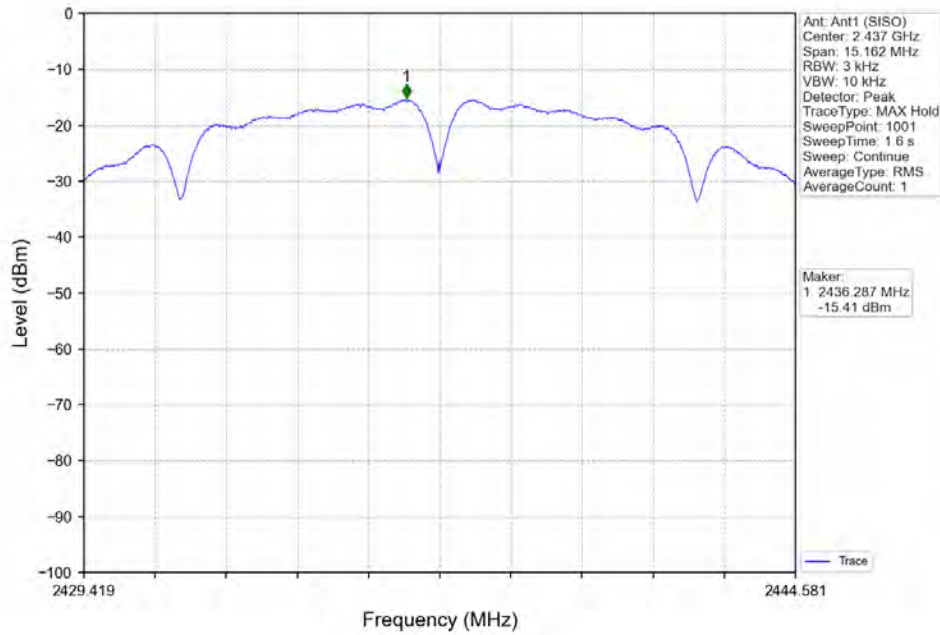
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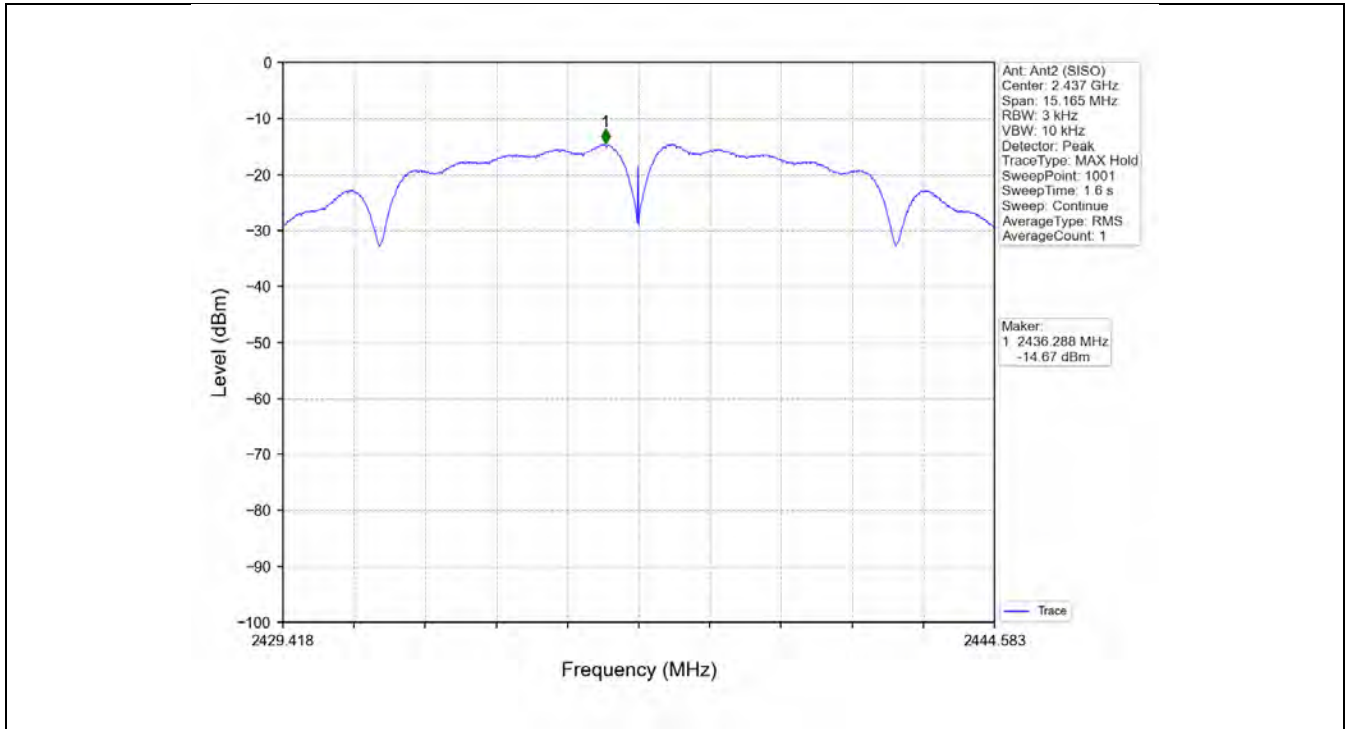
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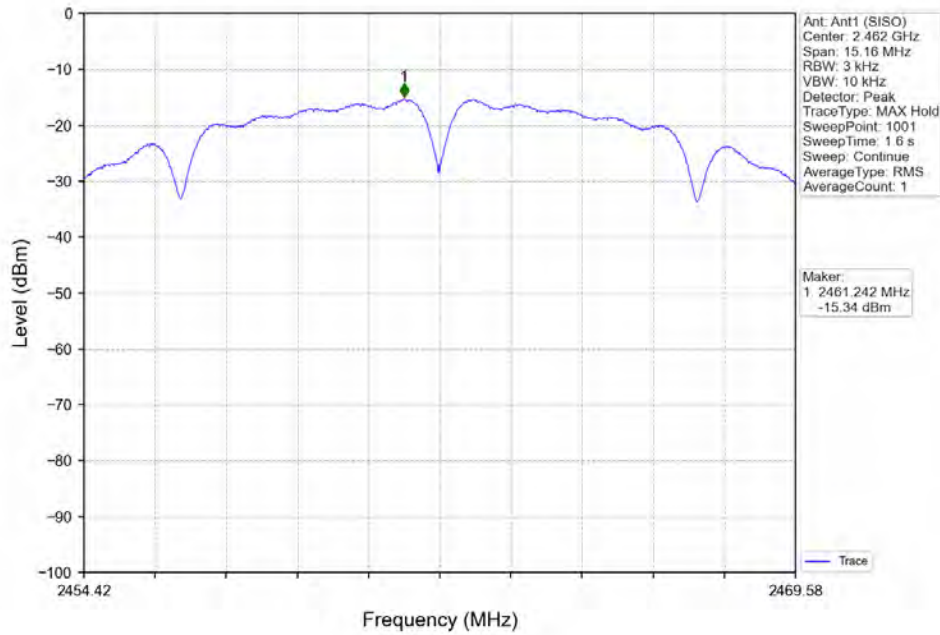
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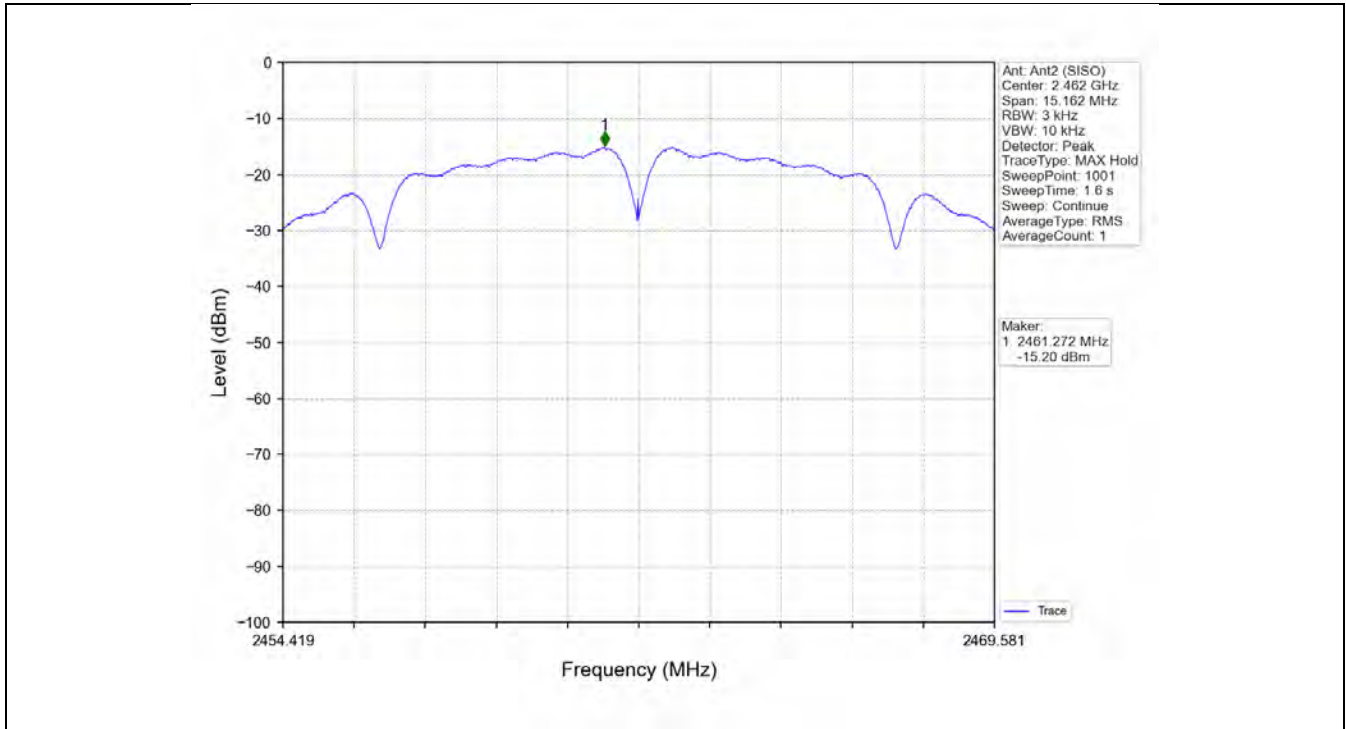


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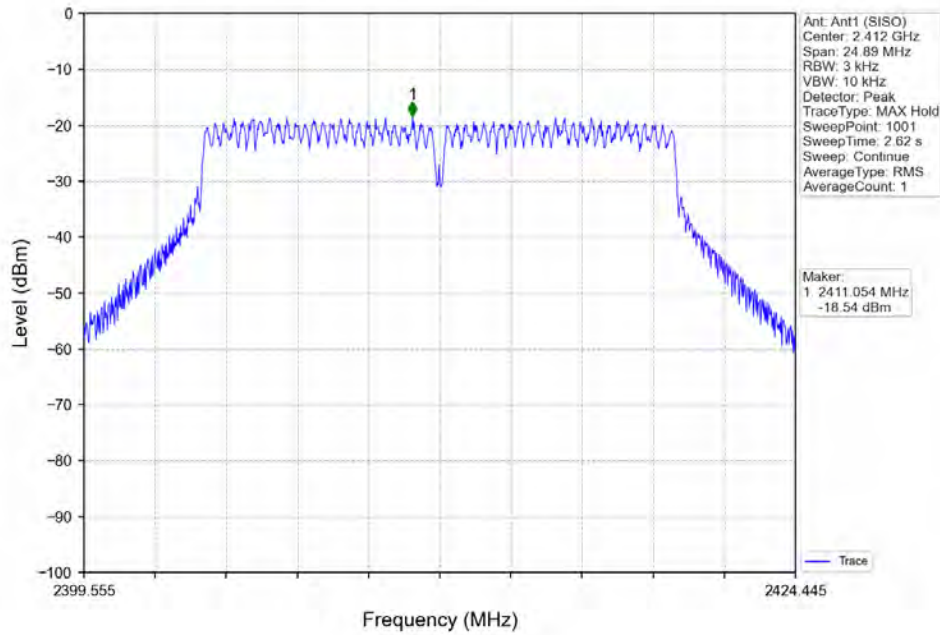
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



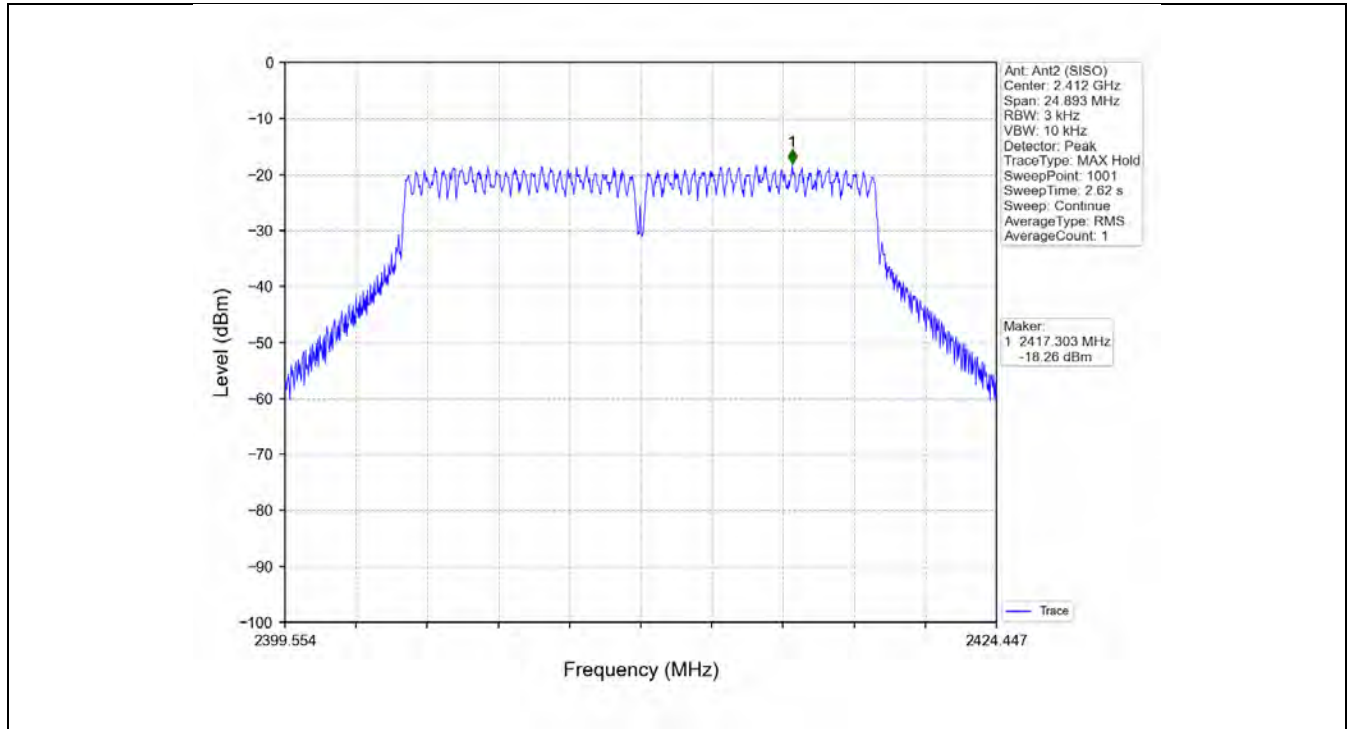
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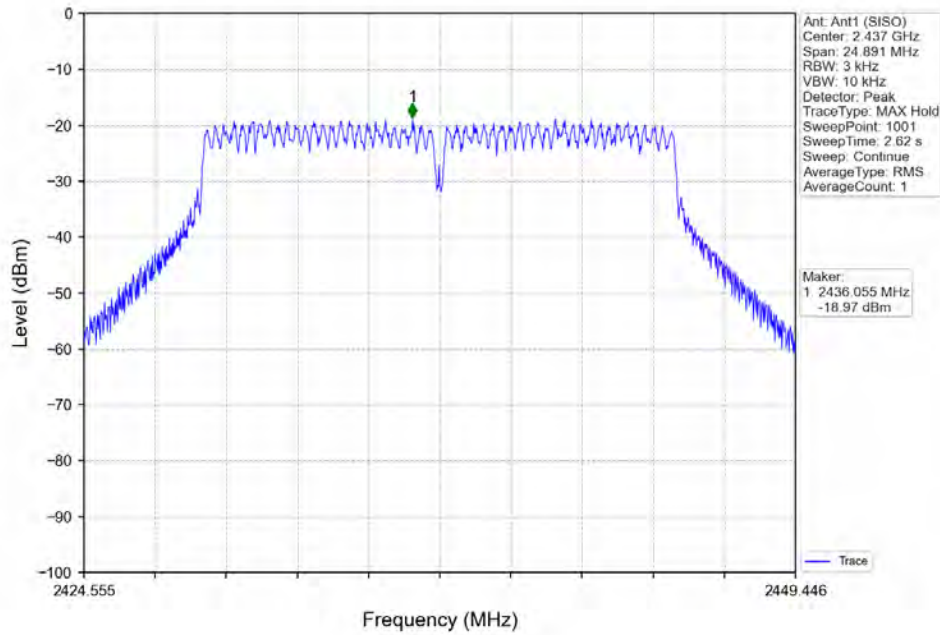
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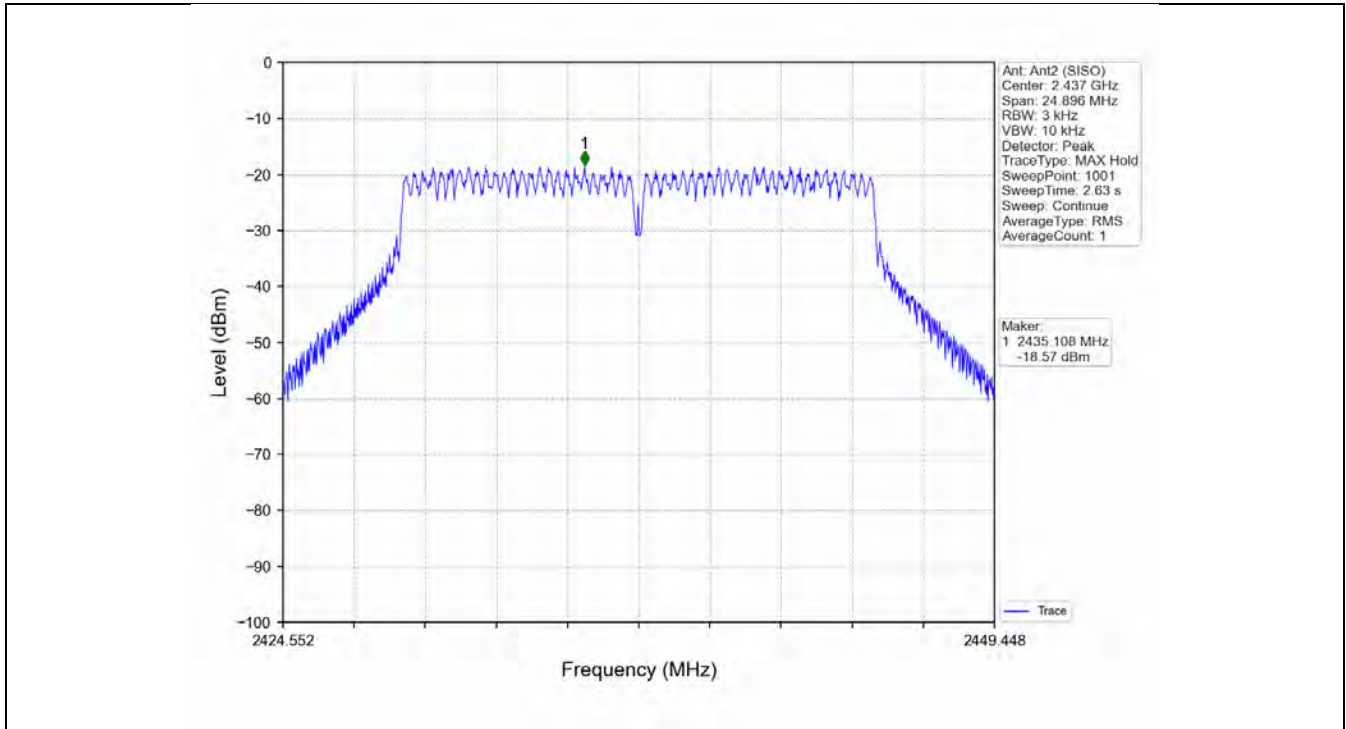
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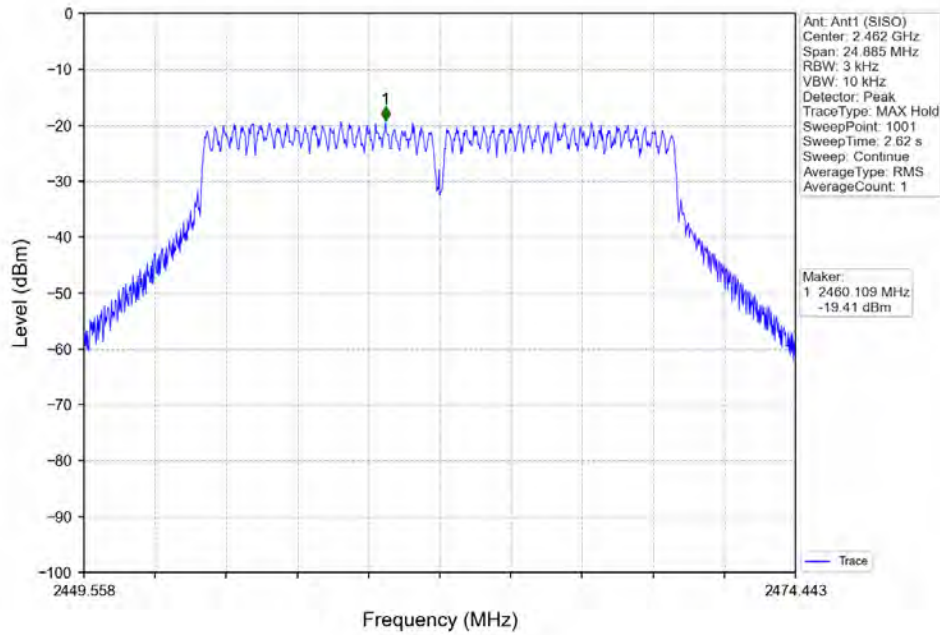
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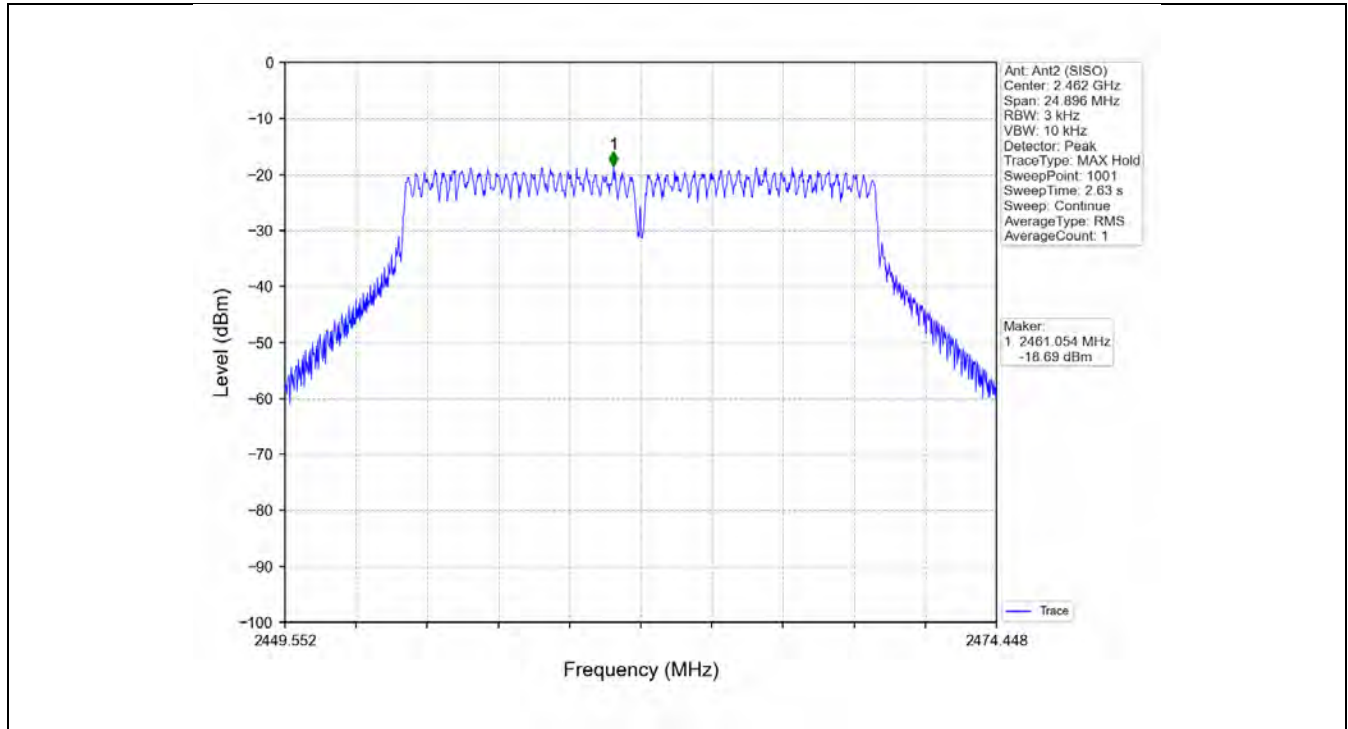
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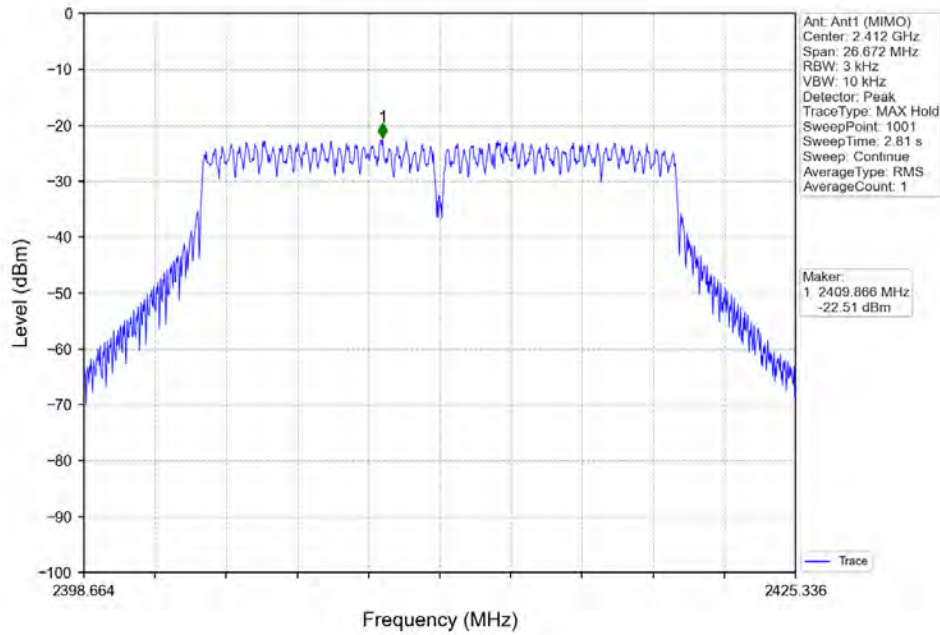
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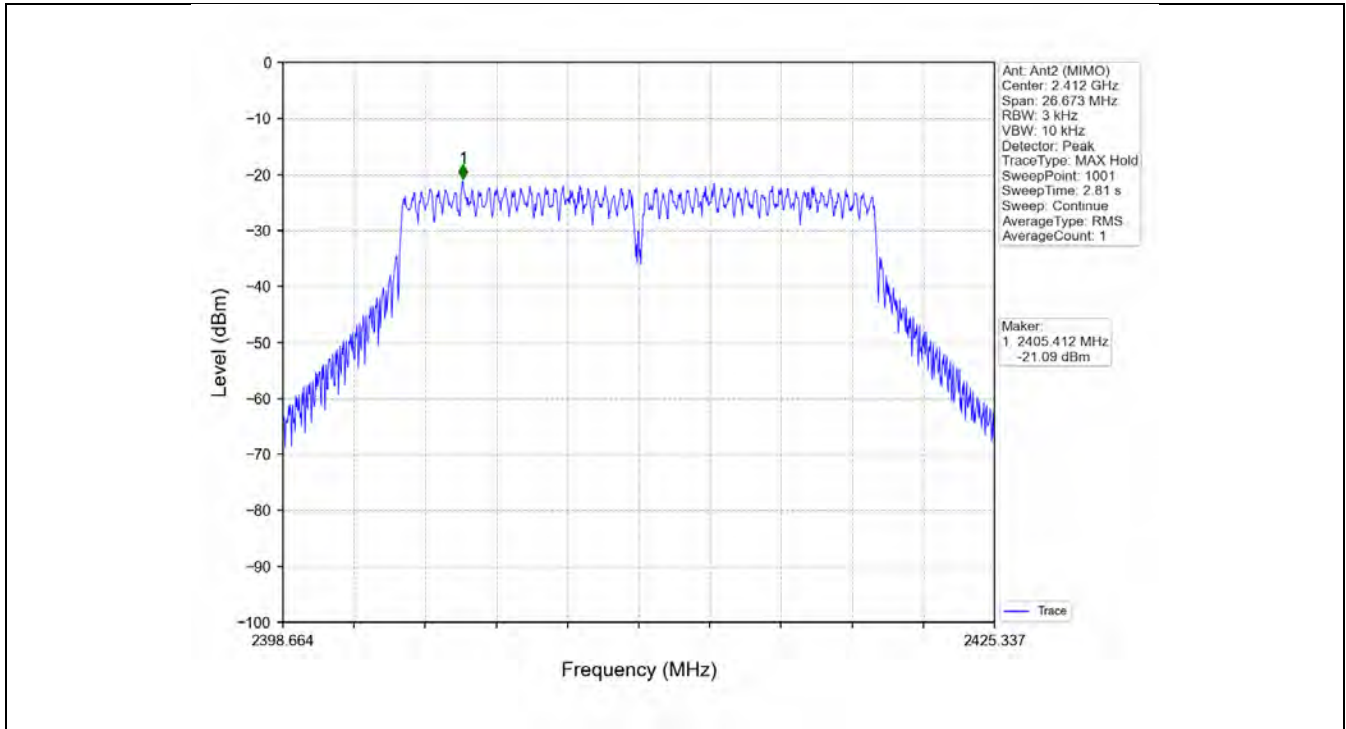
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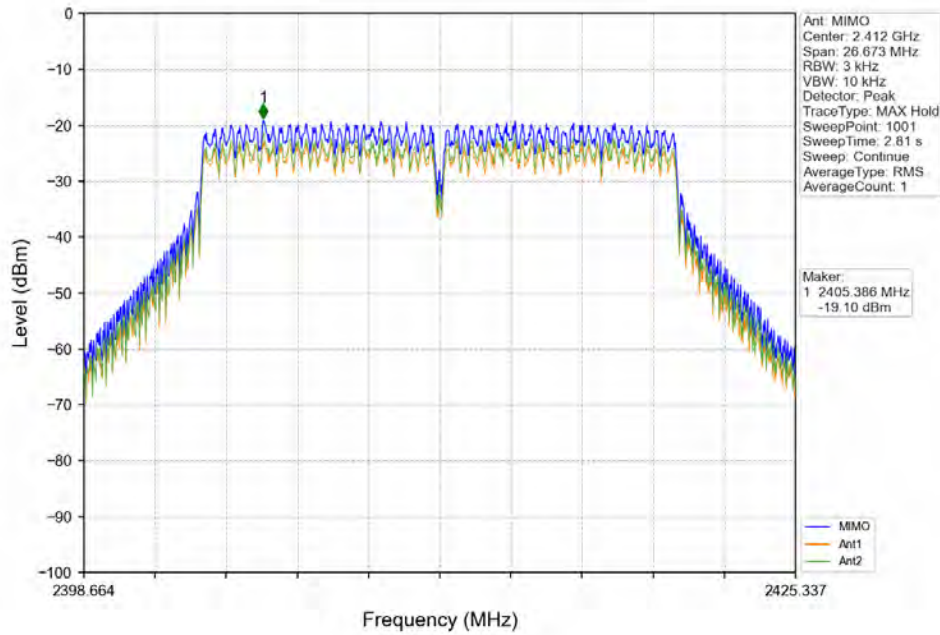
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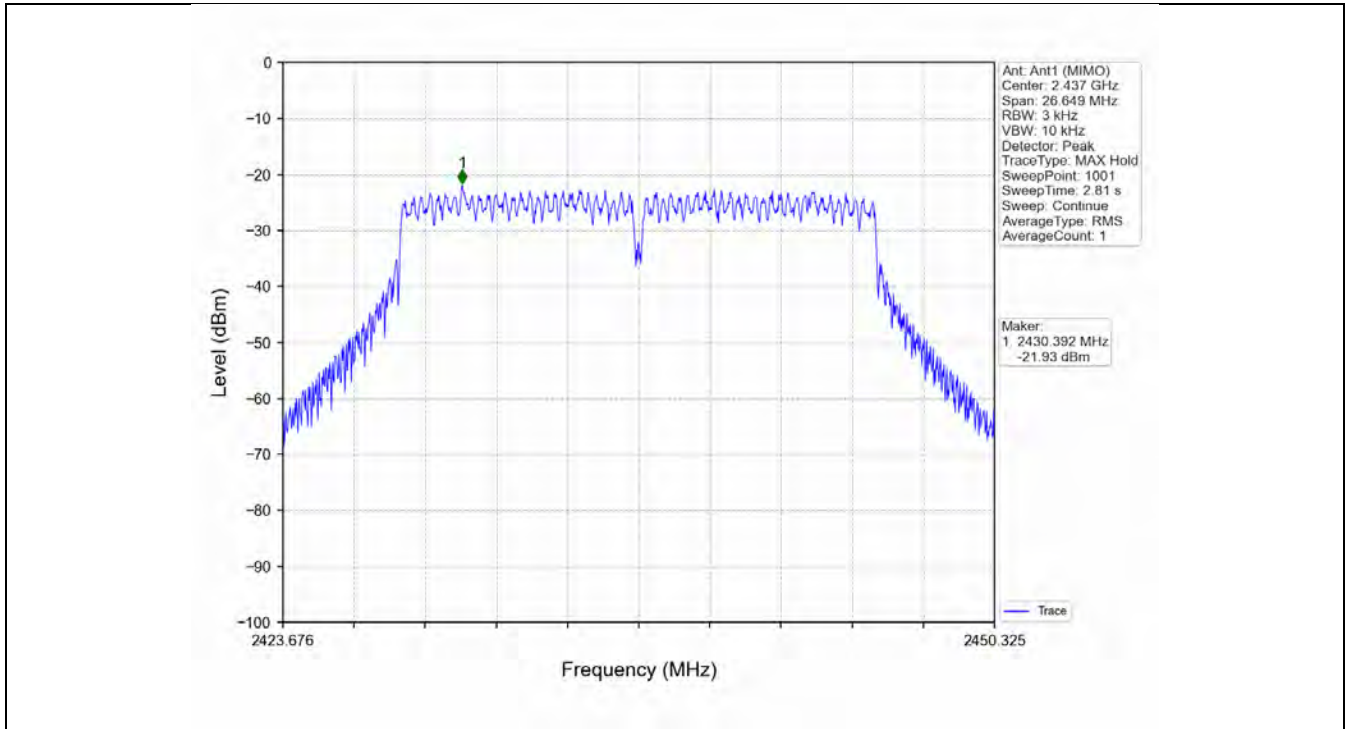


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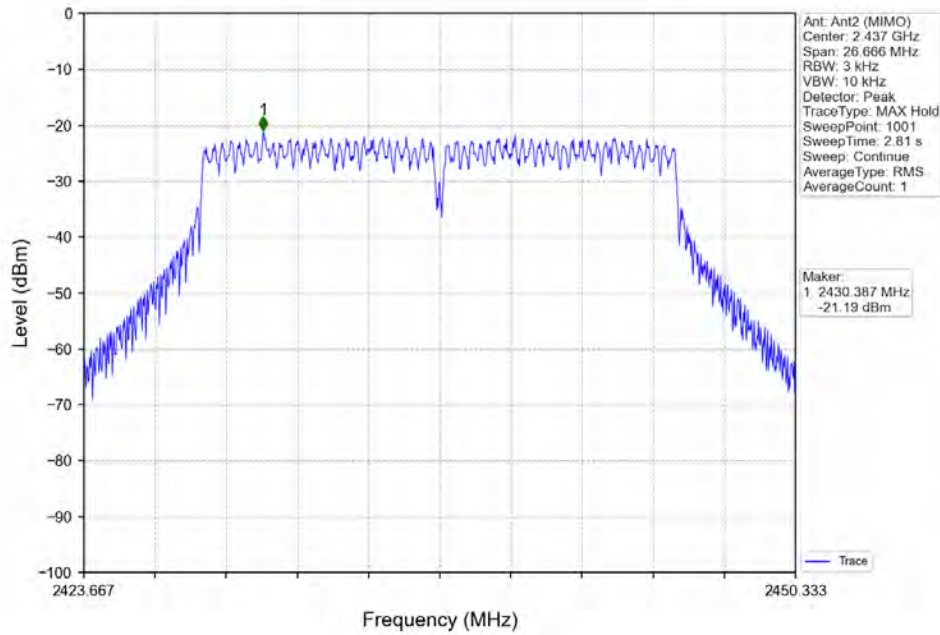
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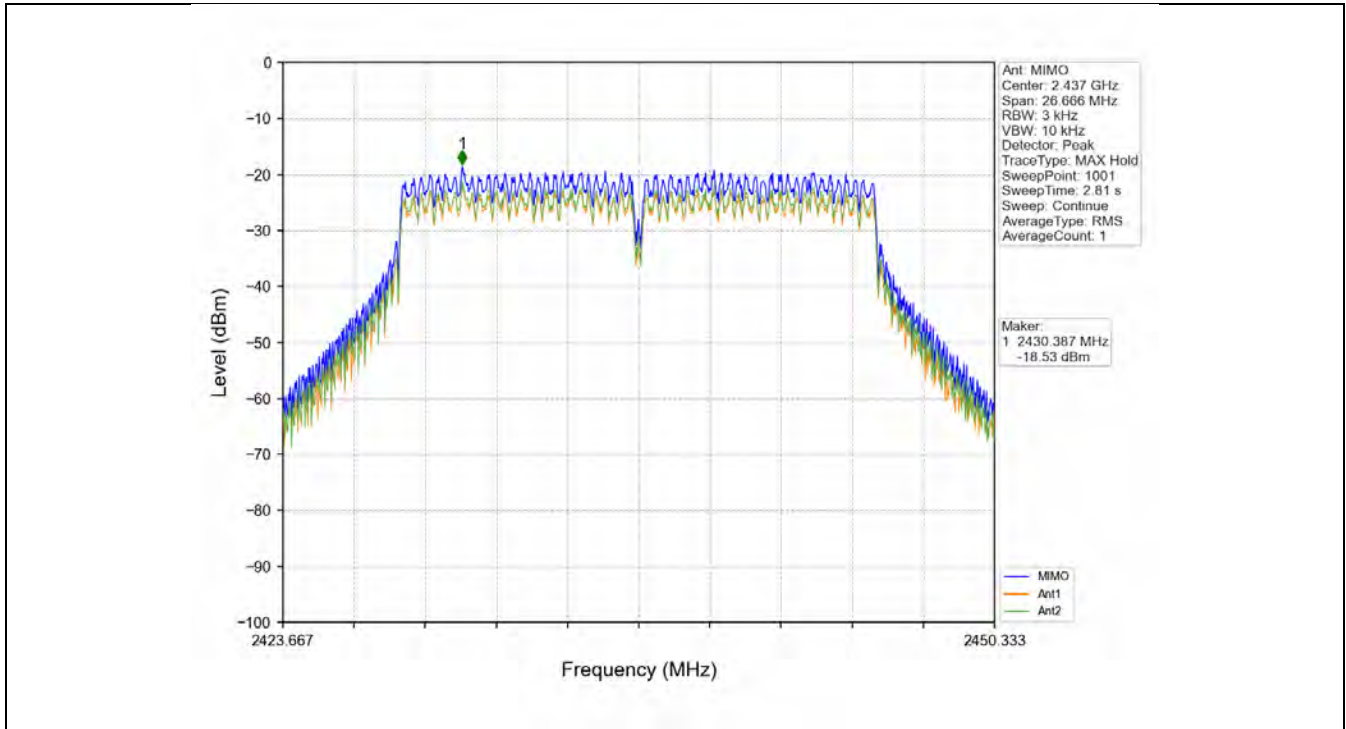


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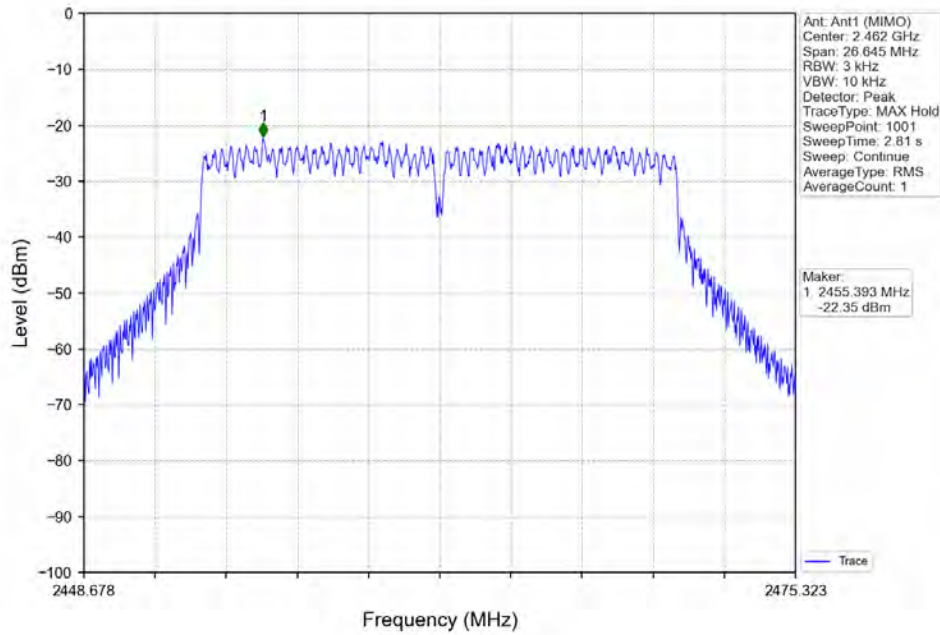
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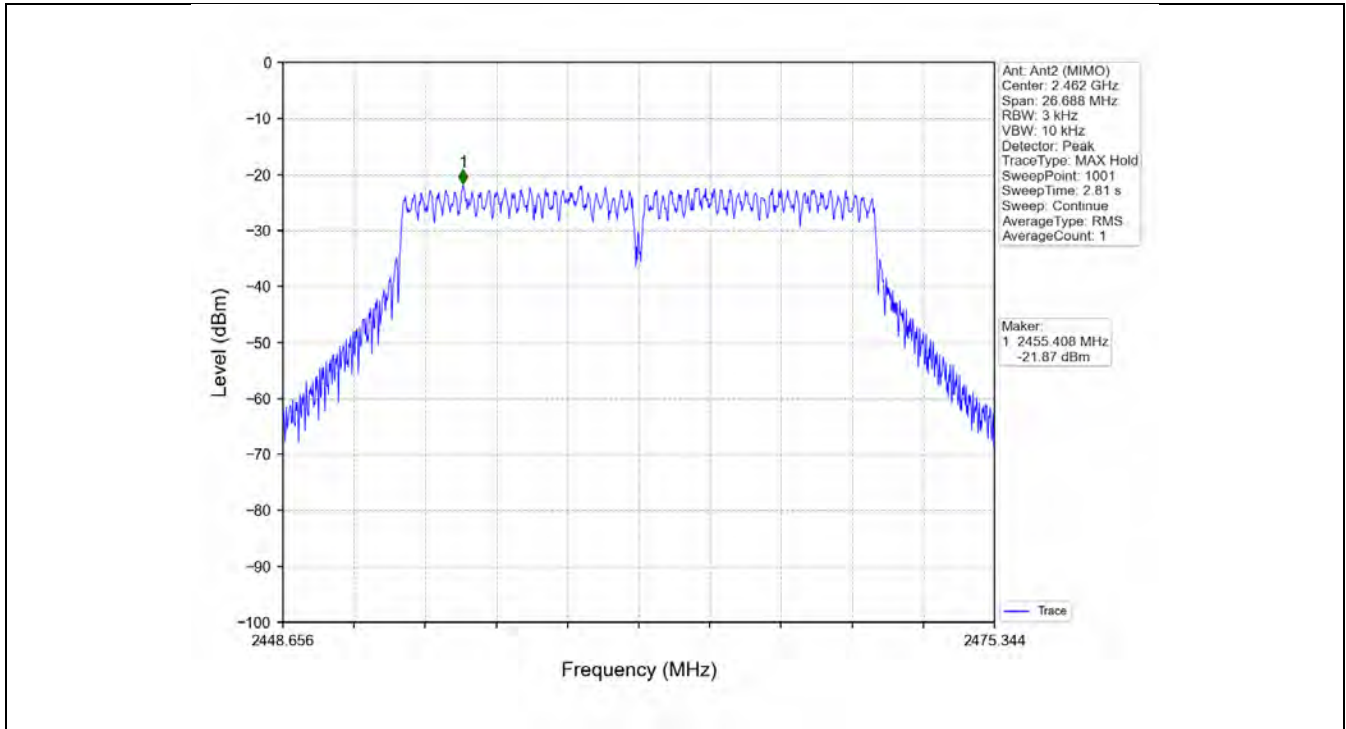
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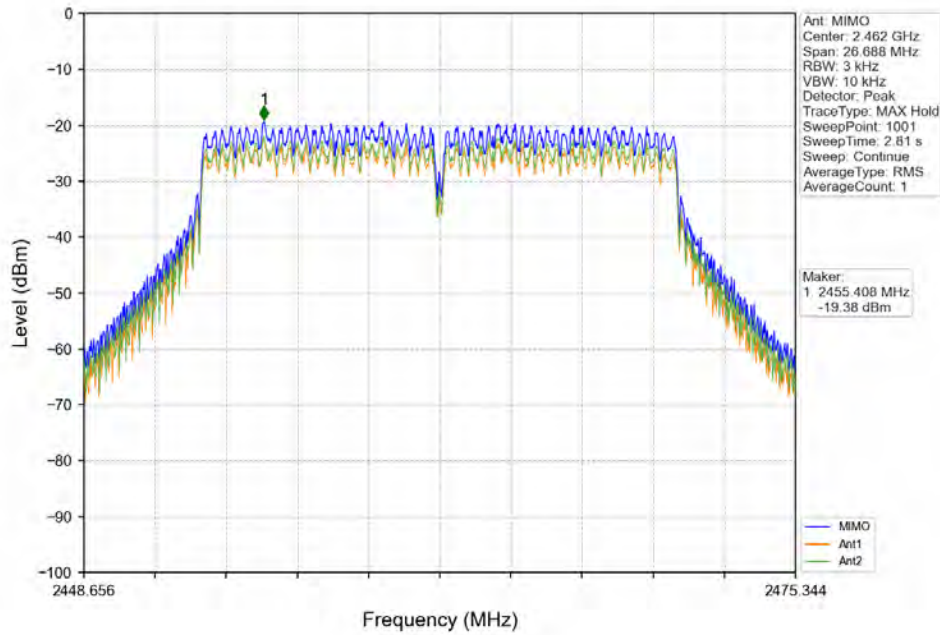
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802.11n(HT20)\_HCH\_2462MHz\_MIMO\_NTNV



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

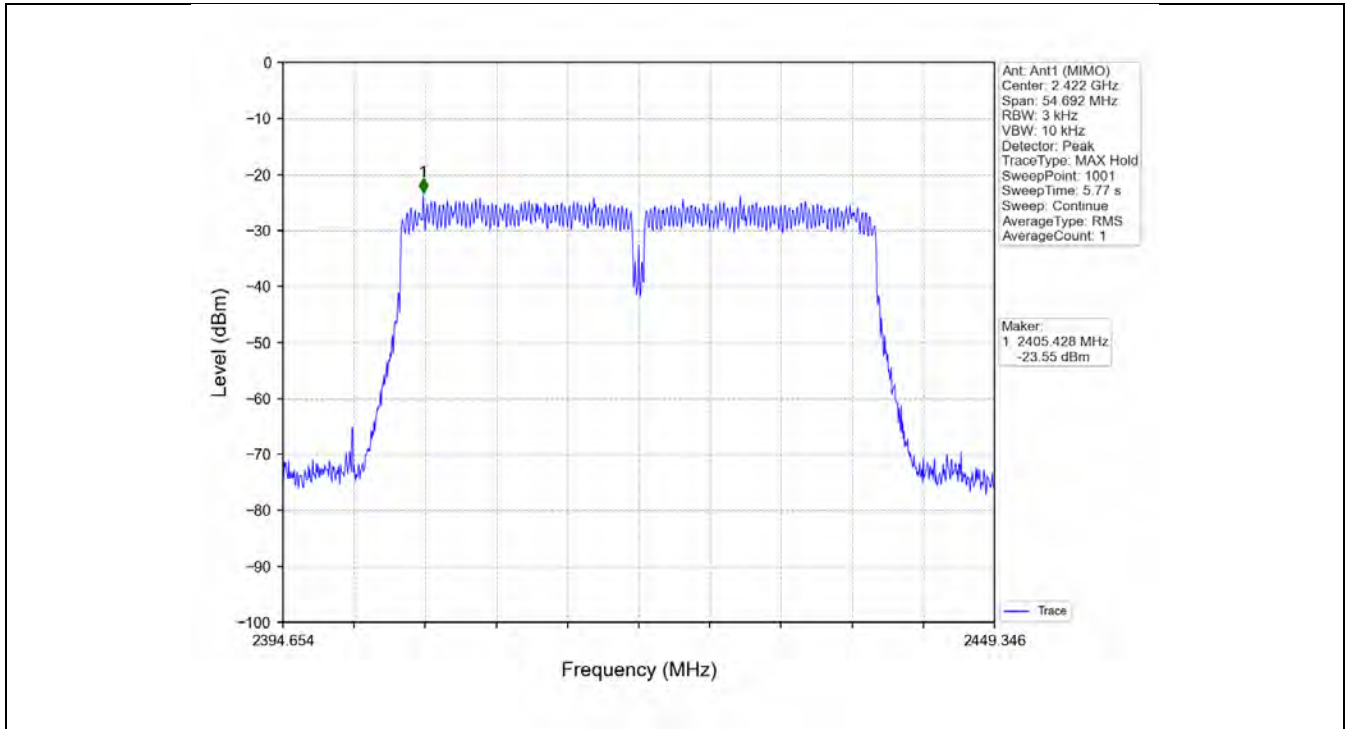


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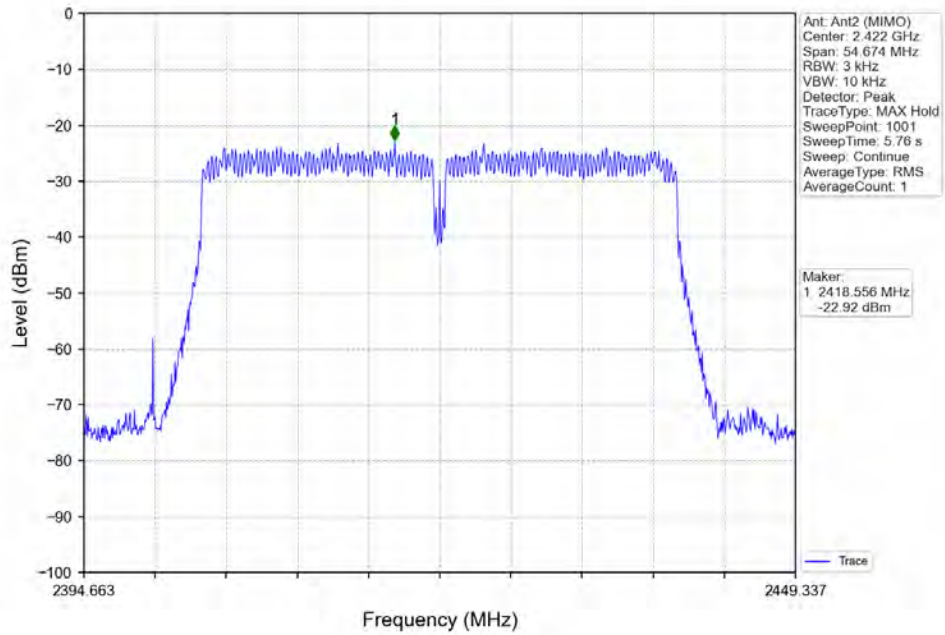
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV



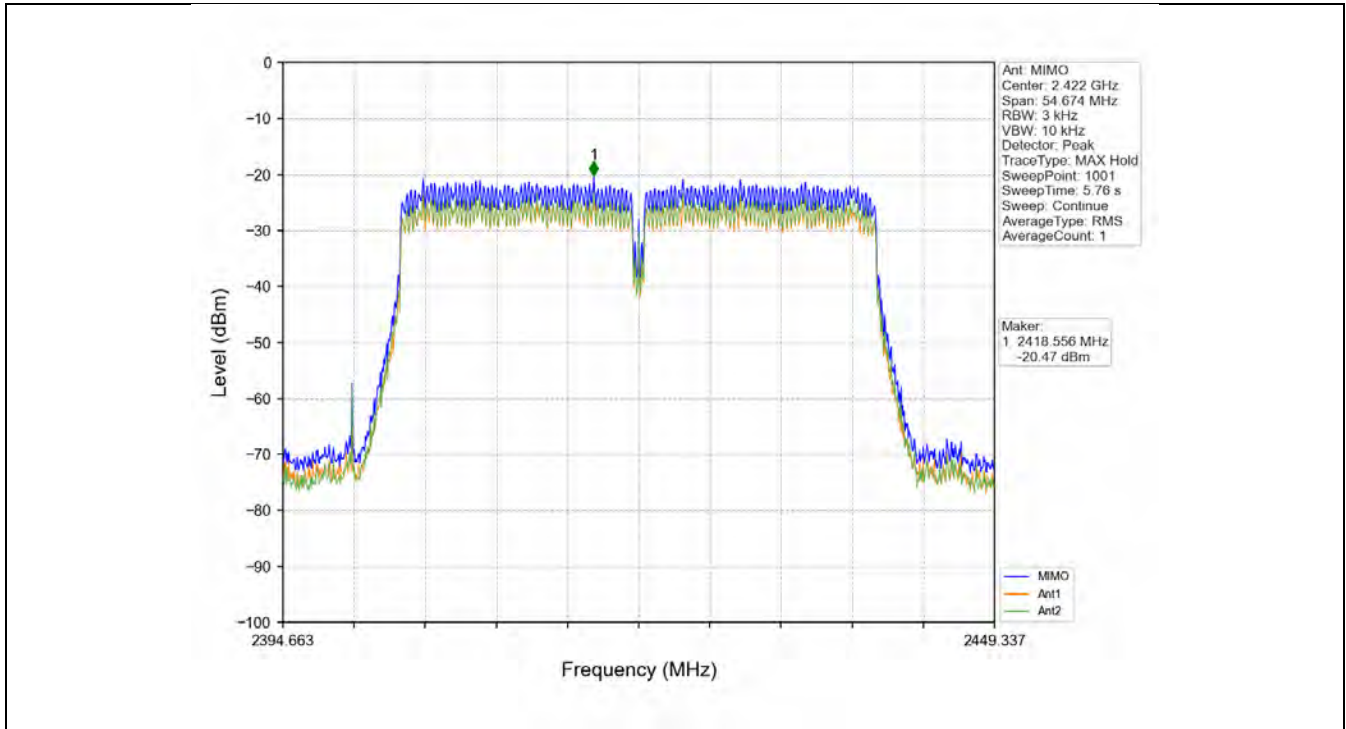
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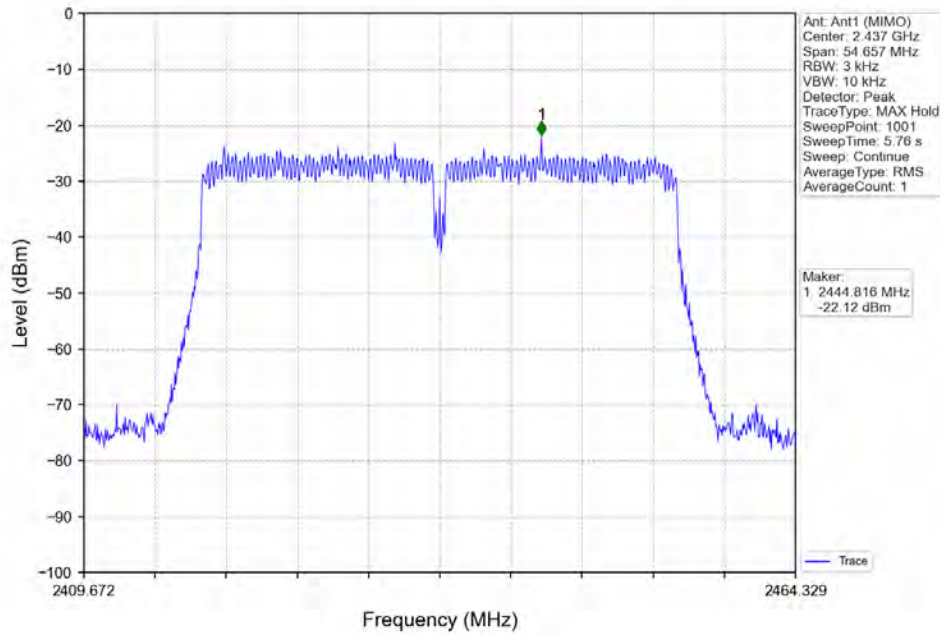
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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



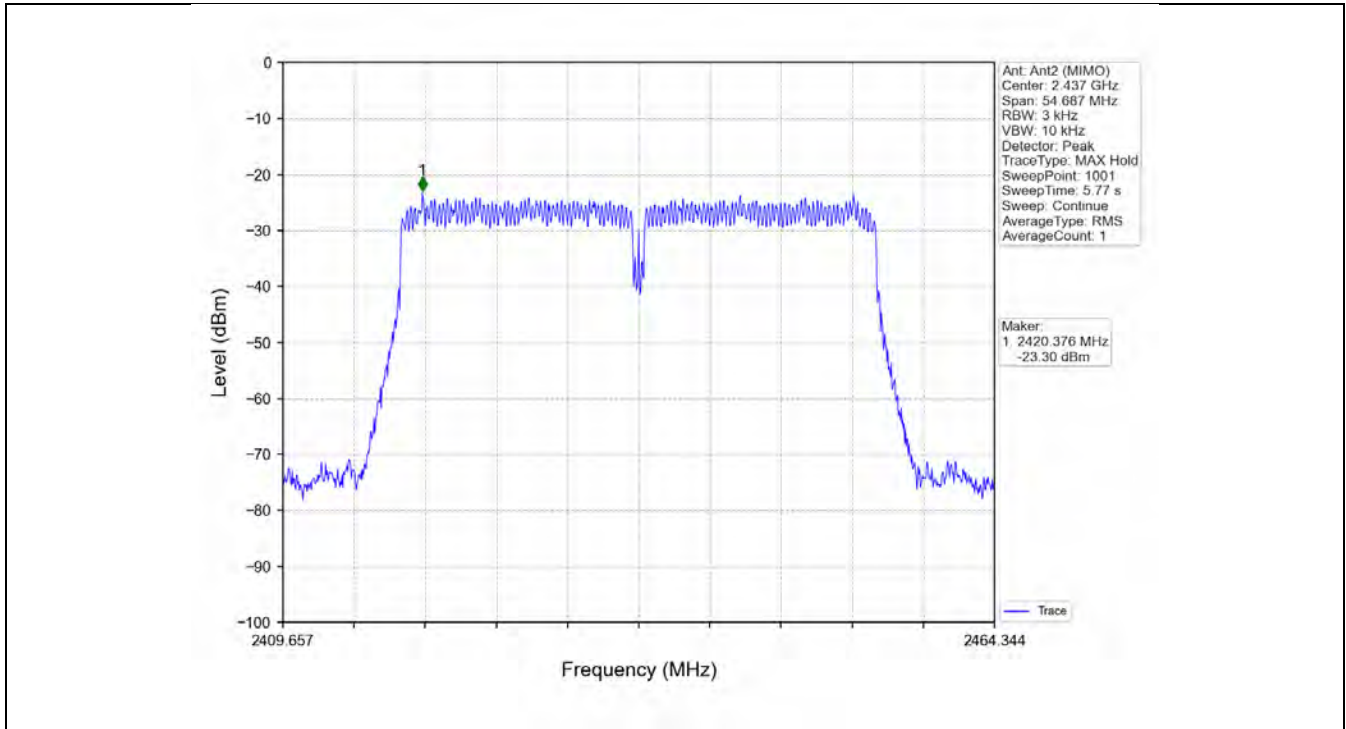
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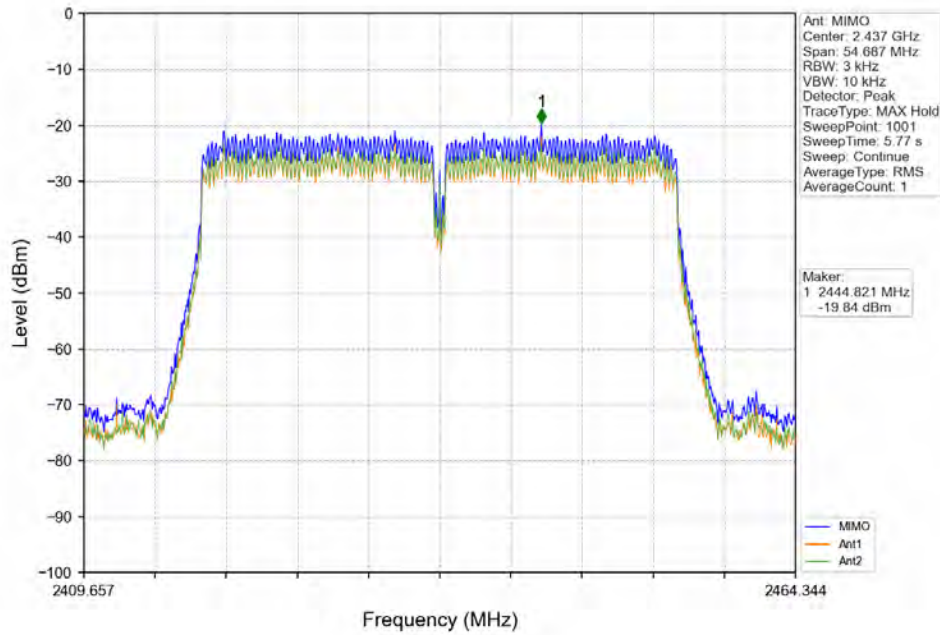
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802.11n(HT40)\_MCH\_2437MHz\_MIMO\_NTNV



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

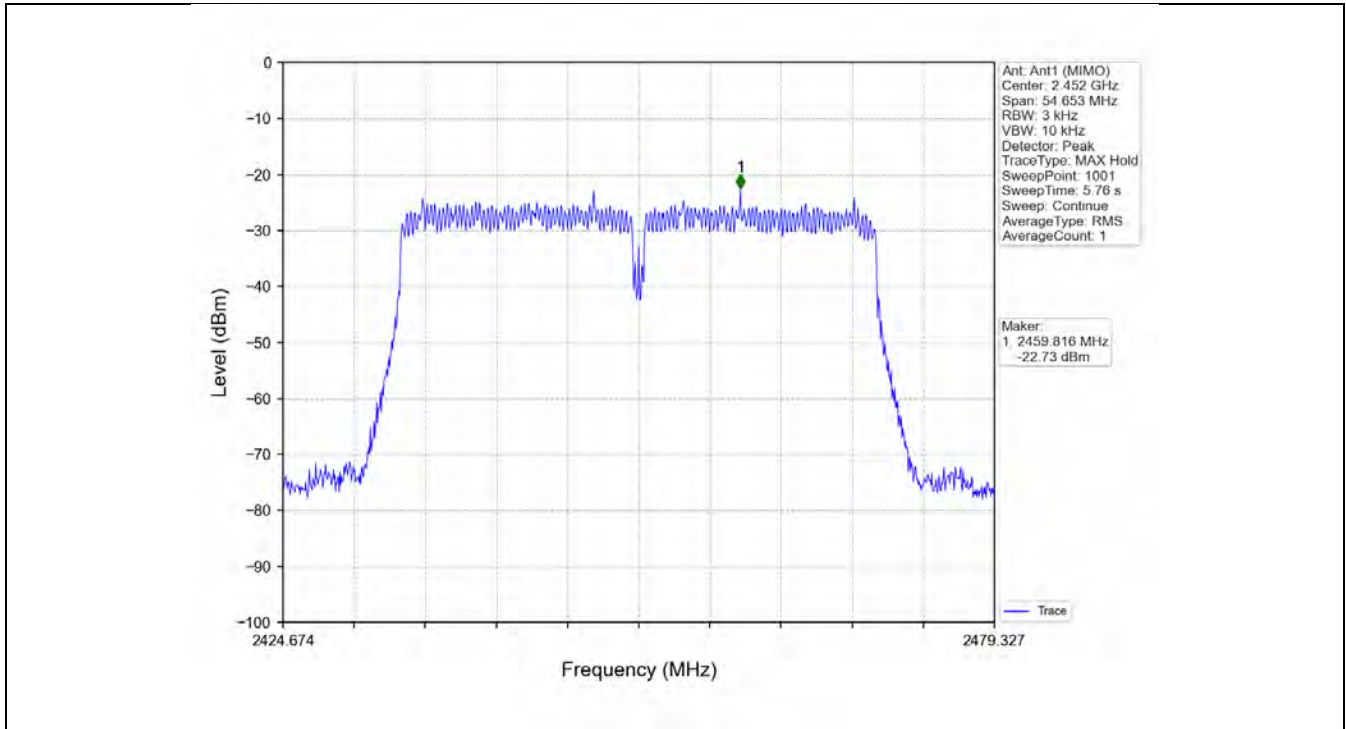


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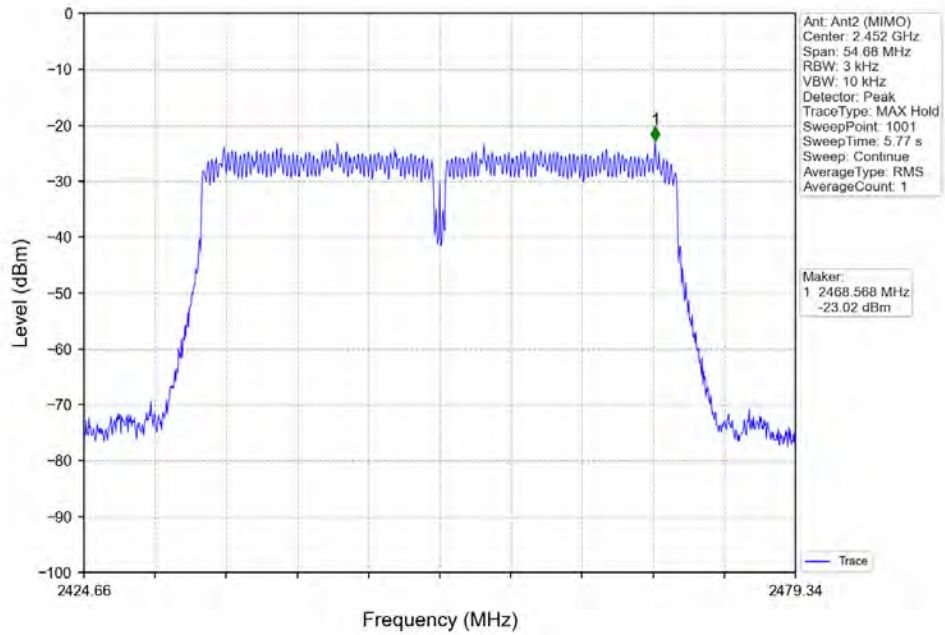
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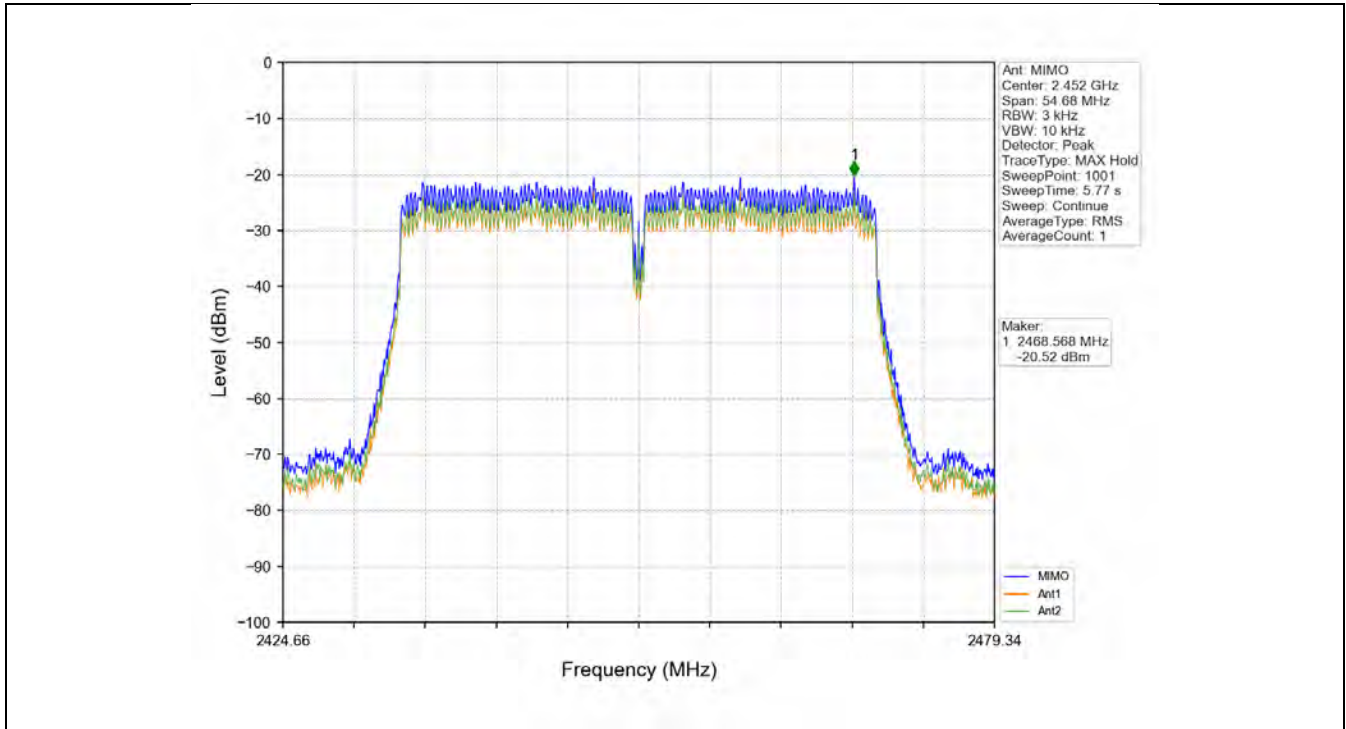
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.00
			2	5.71
		2437	1	4.58
			2	5.33
		2462	1	4.68
			2	4.81
802.11g	SISO	2412	1	-4.01
			2	-3.97
		2437	1	-4.41
			2	-4.03
		2462	1	-4.82
			2	-4.33
802.11n (HT20)	MIMO	2412	1	-7.93
			2	-6.93
		2437	1	-7.88
			2	-7.10
		2462	1	-8.27
			2	-7.32
802.11n (HT40)	MIMO	2422	1	-10.81
			2	-10.13
		2437	1	-11.00
			2	-10.11
		2452	1	-10.91
			2	-10.22

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.



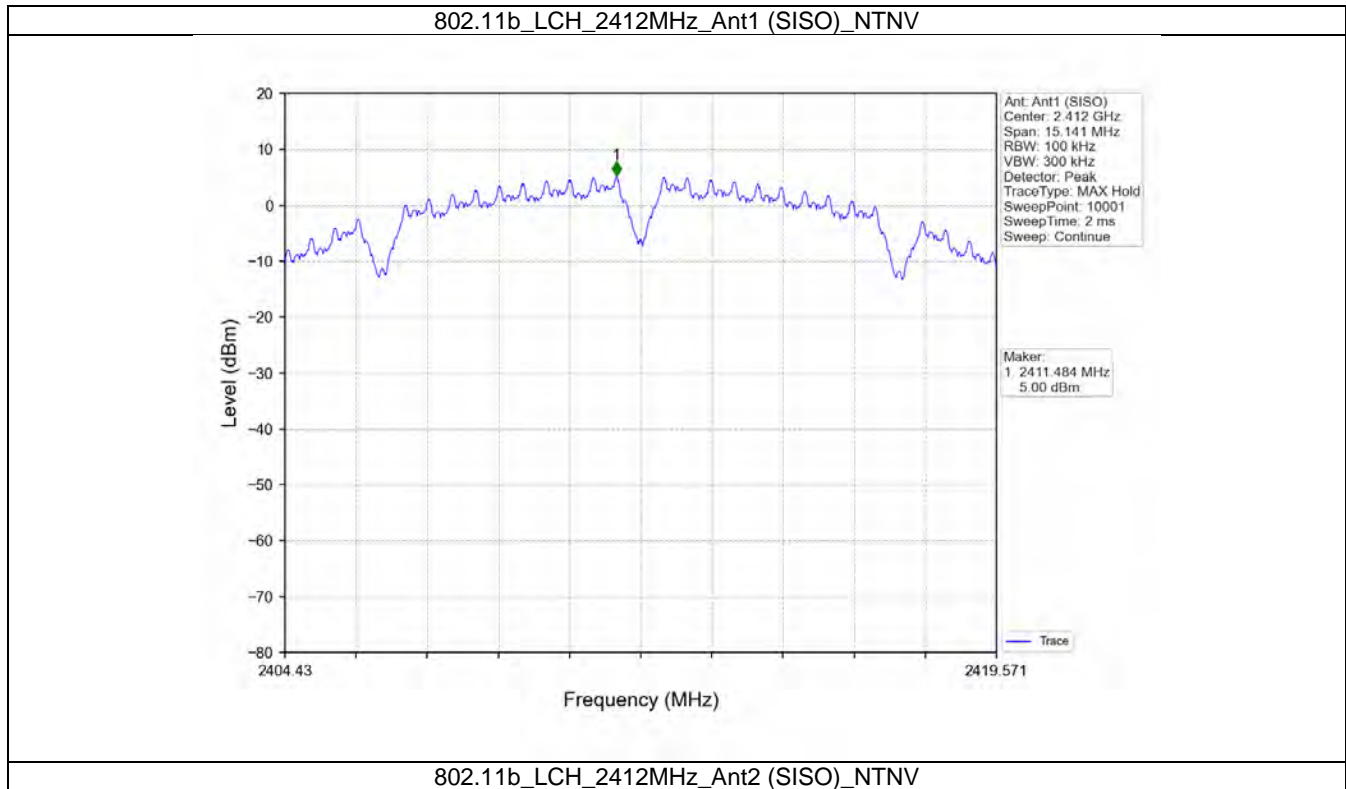
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5.1.2 Test Graph



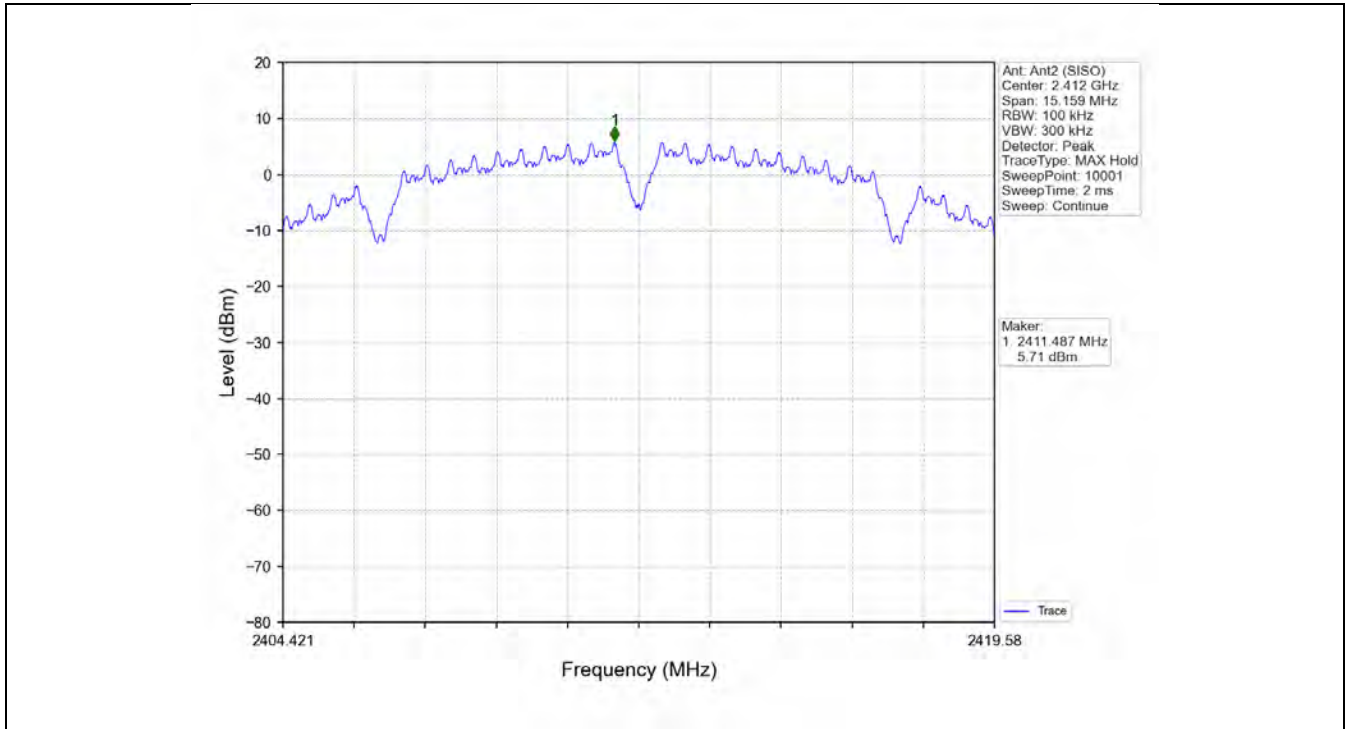
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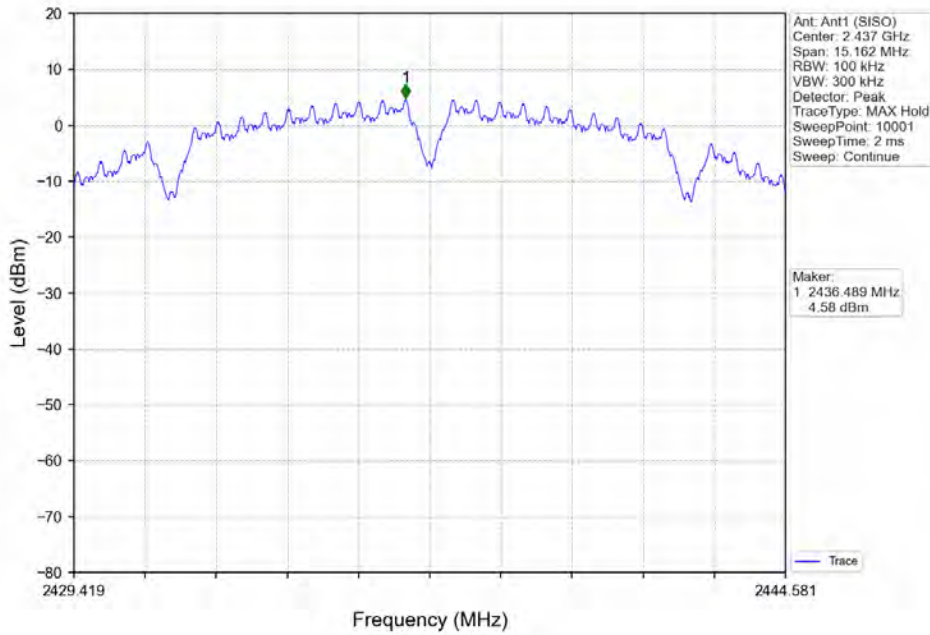
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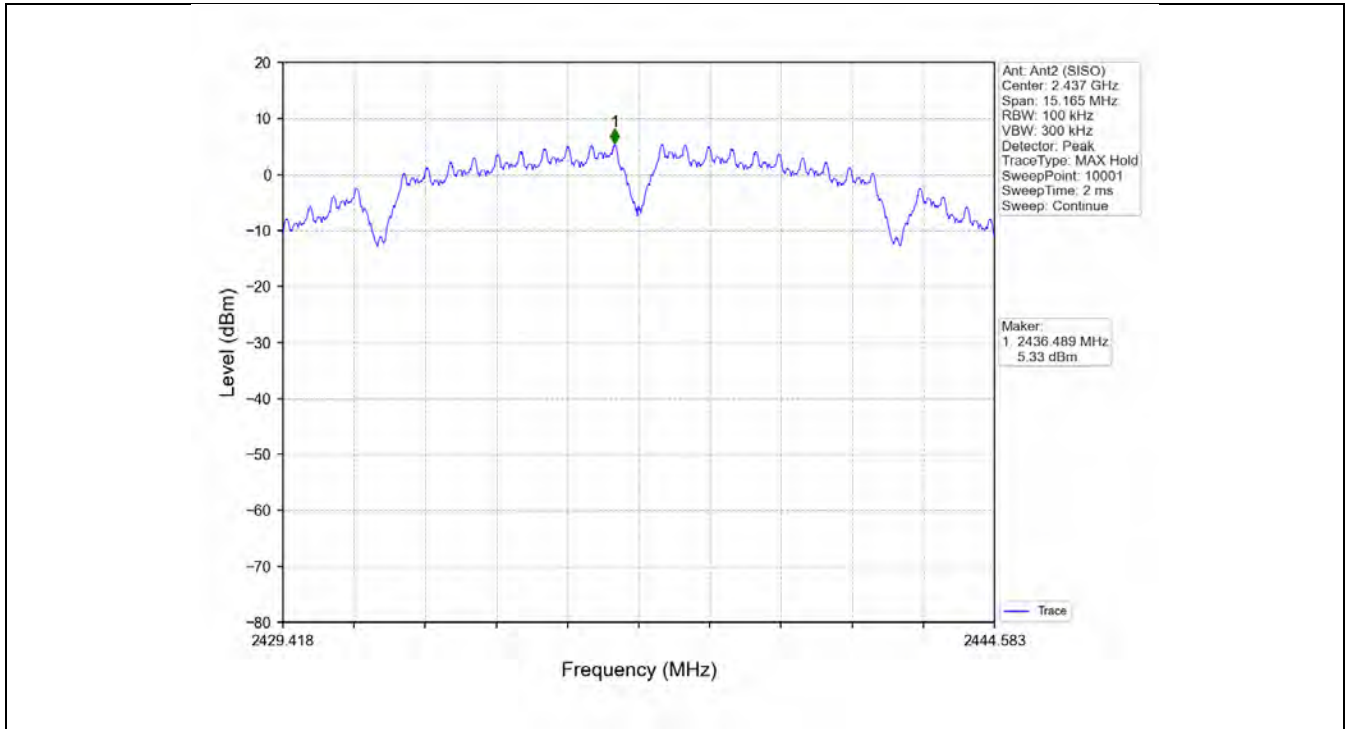
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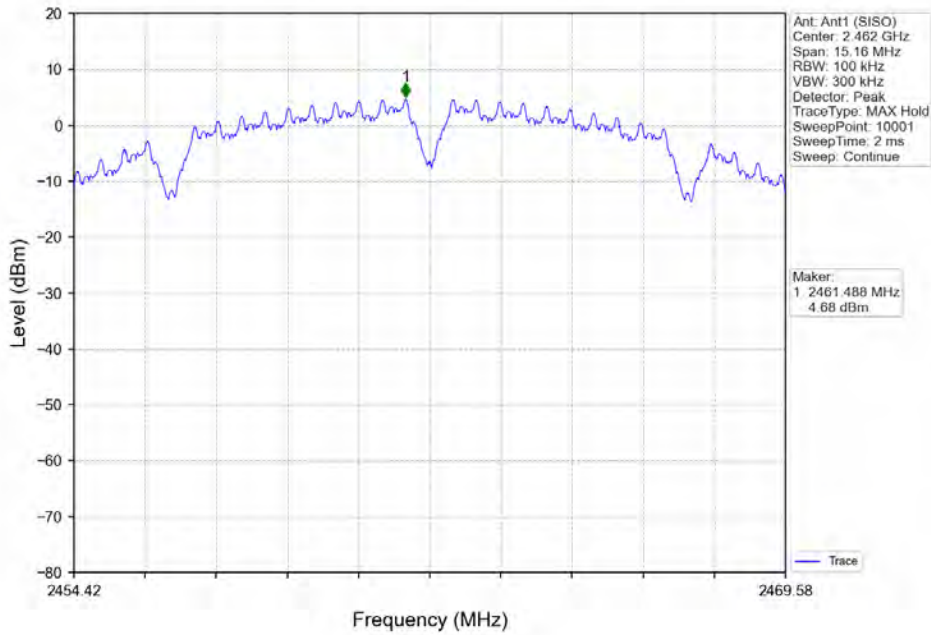
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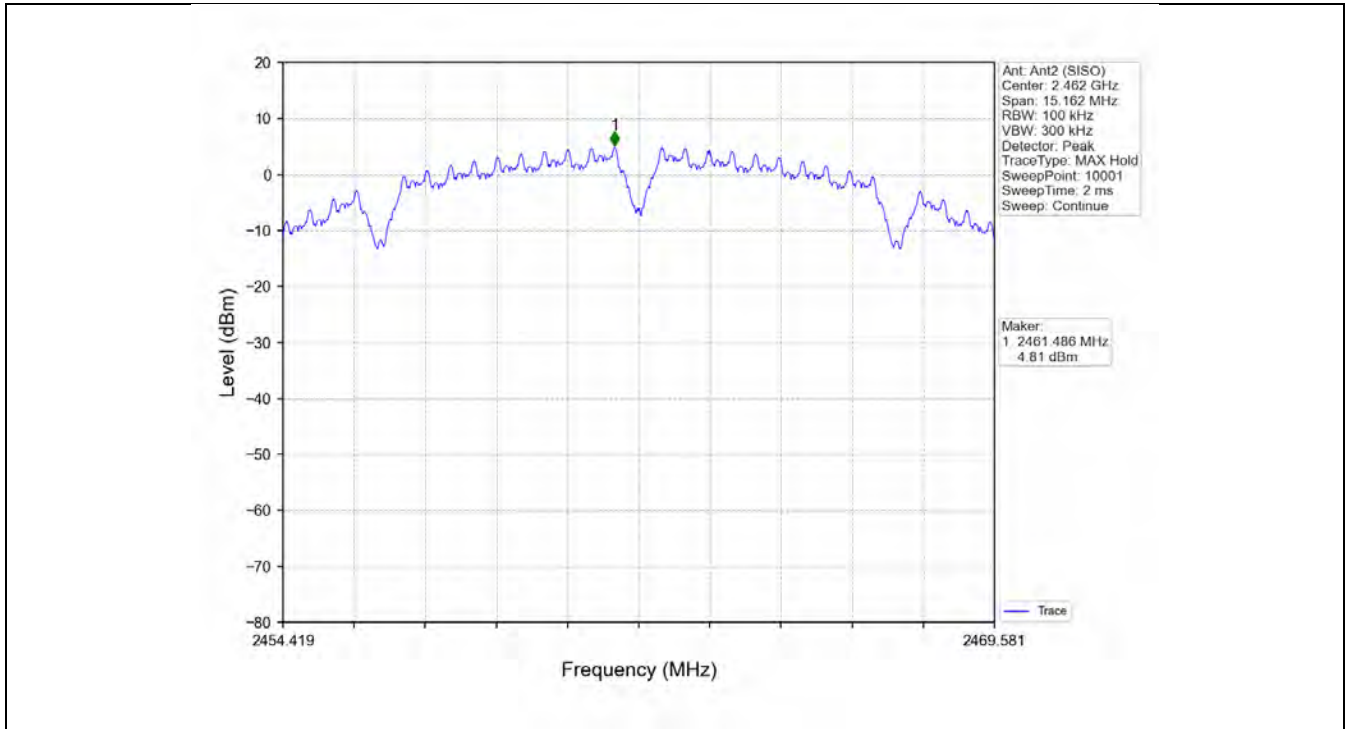
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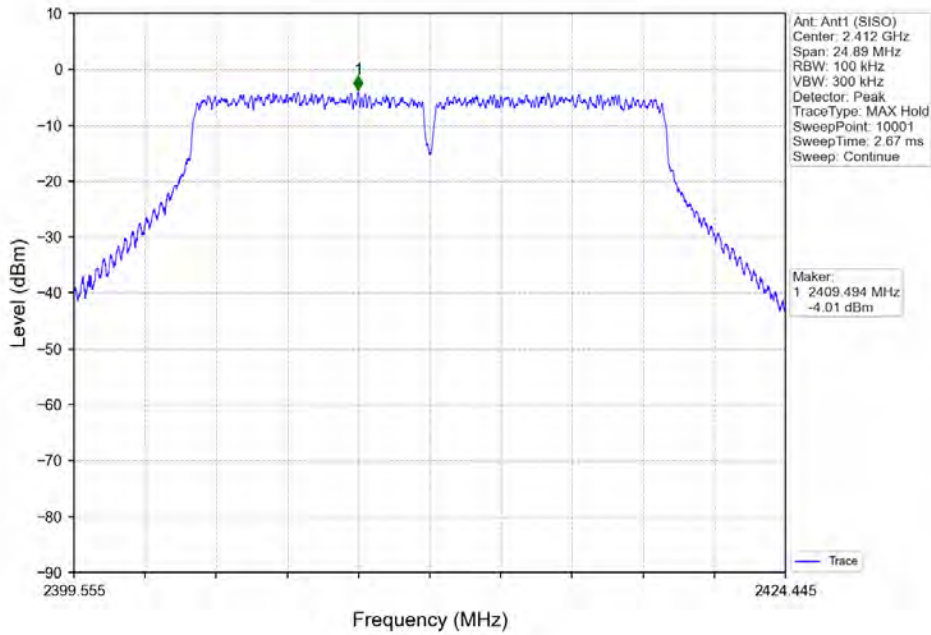
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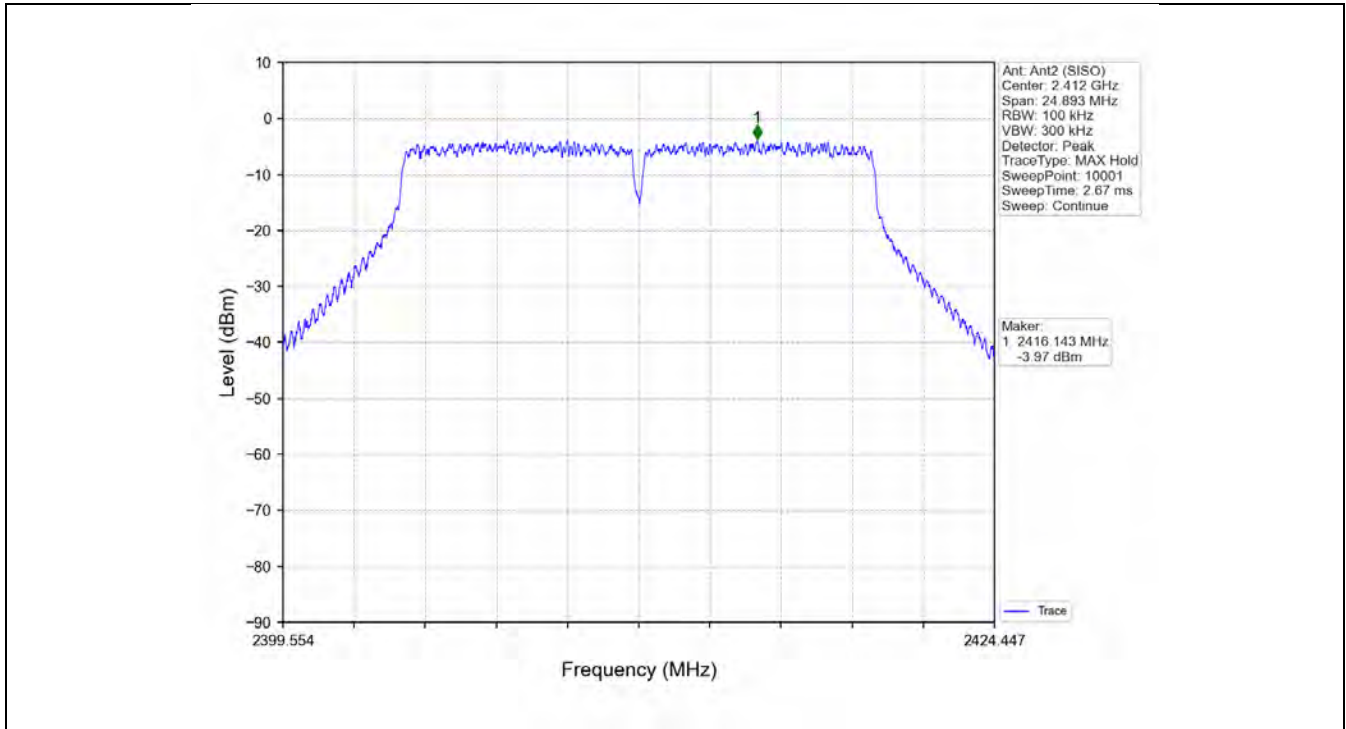
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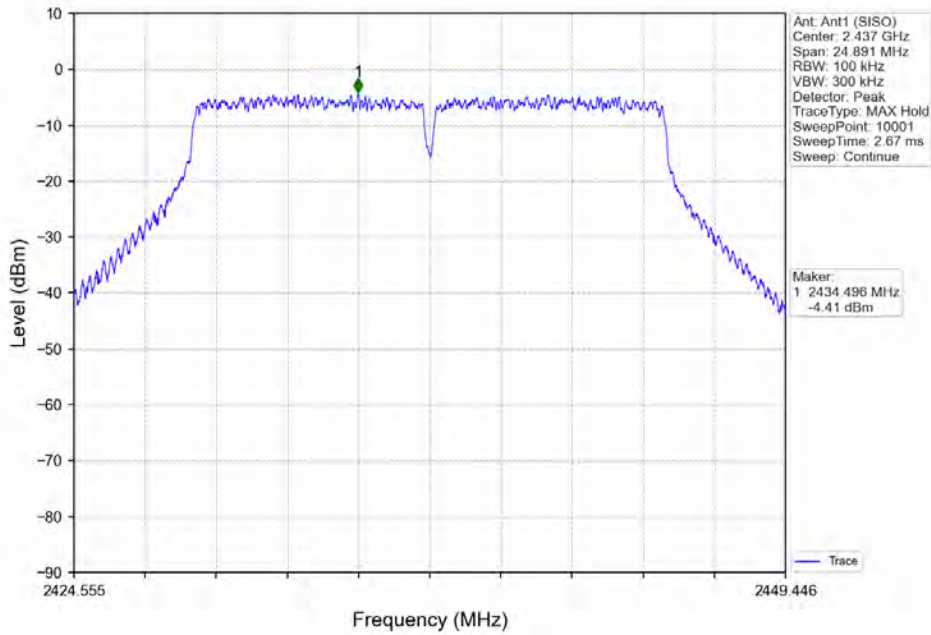
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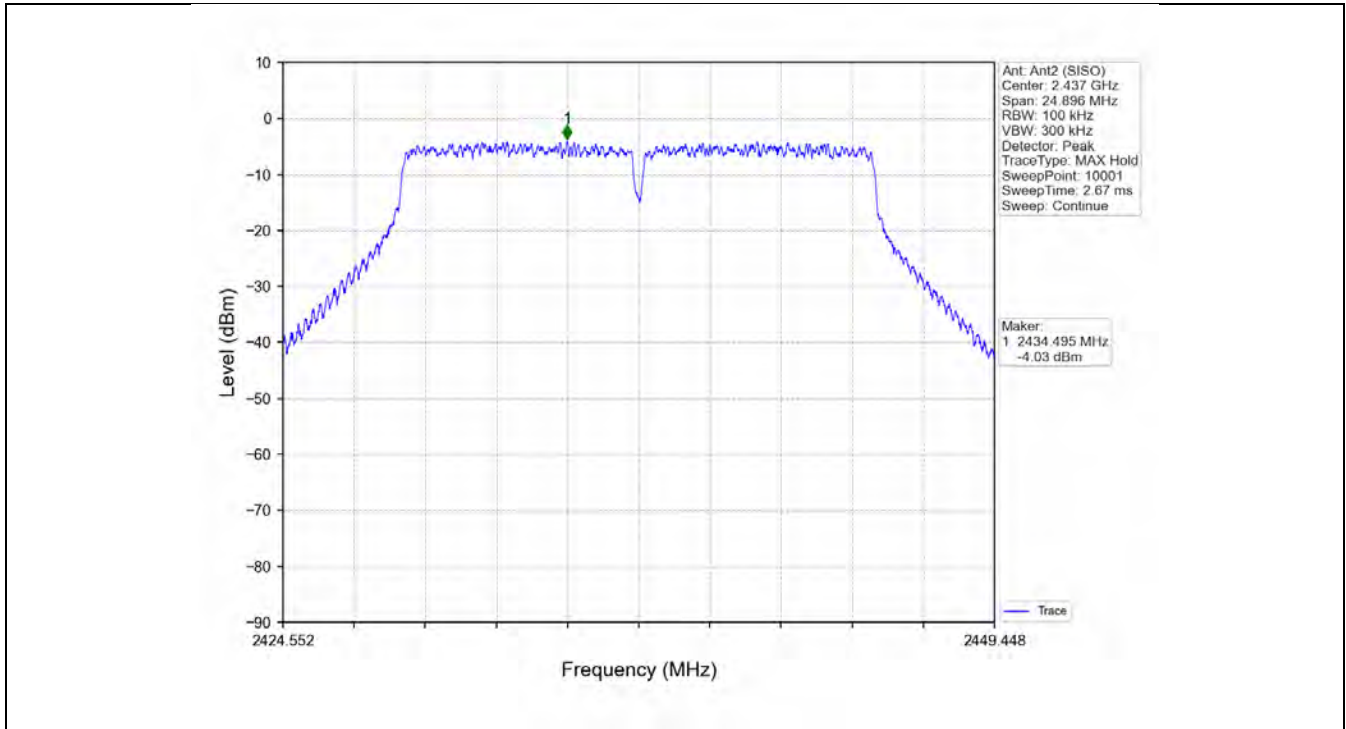
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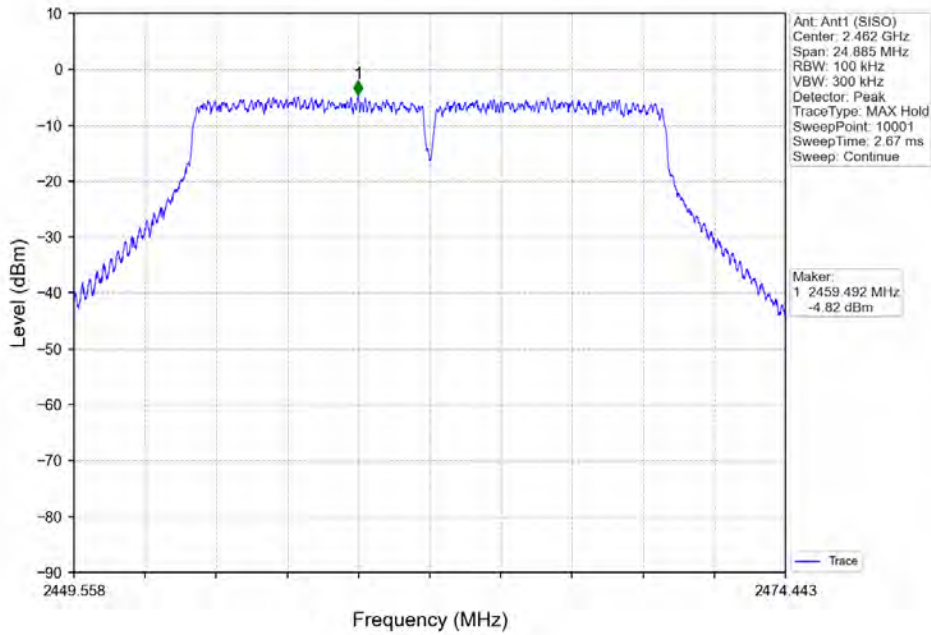
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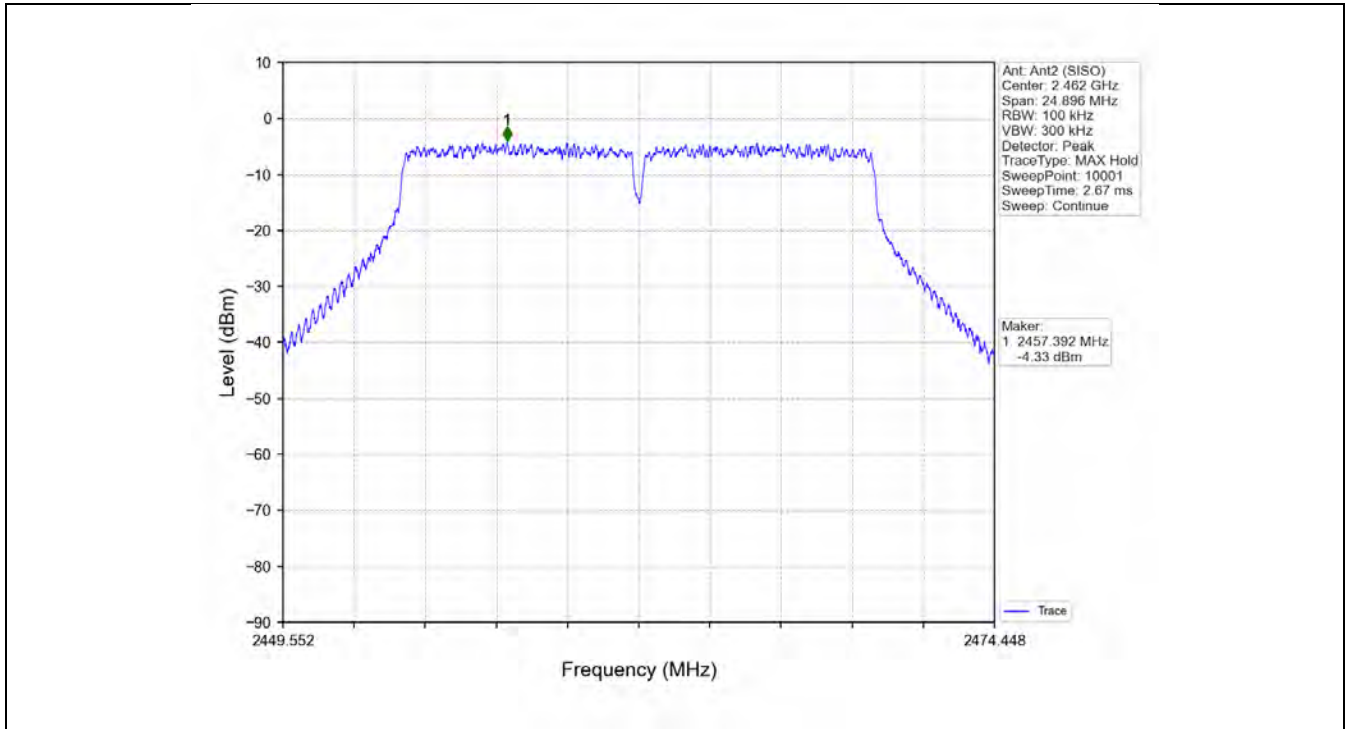


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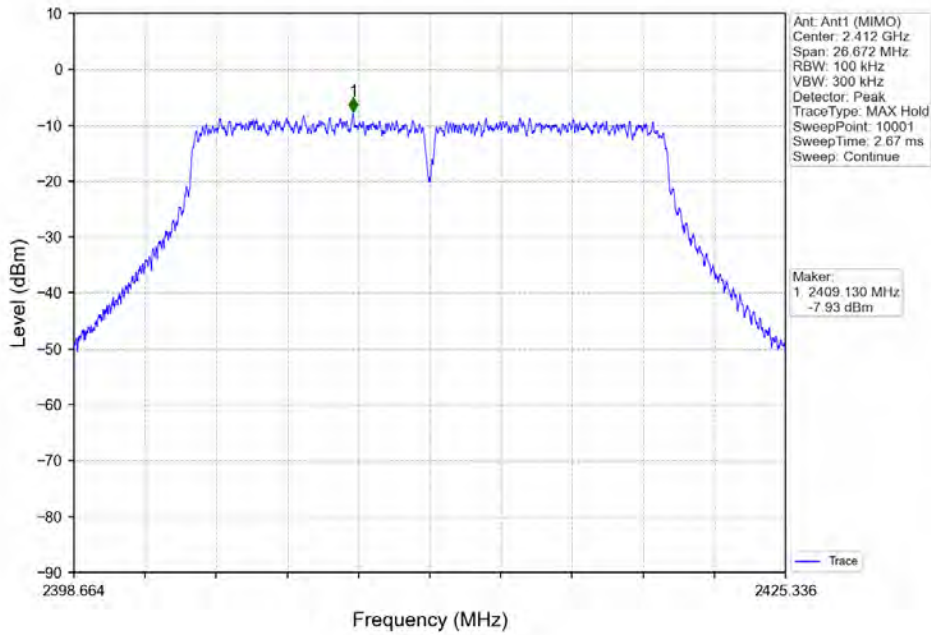
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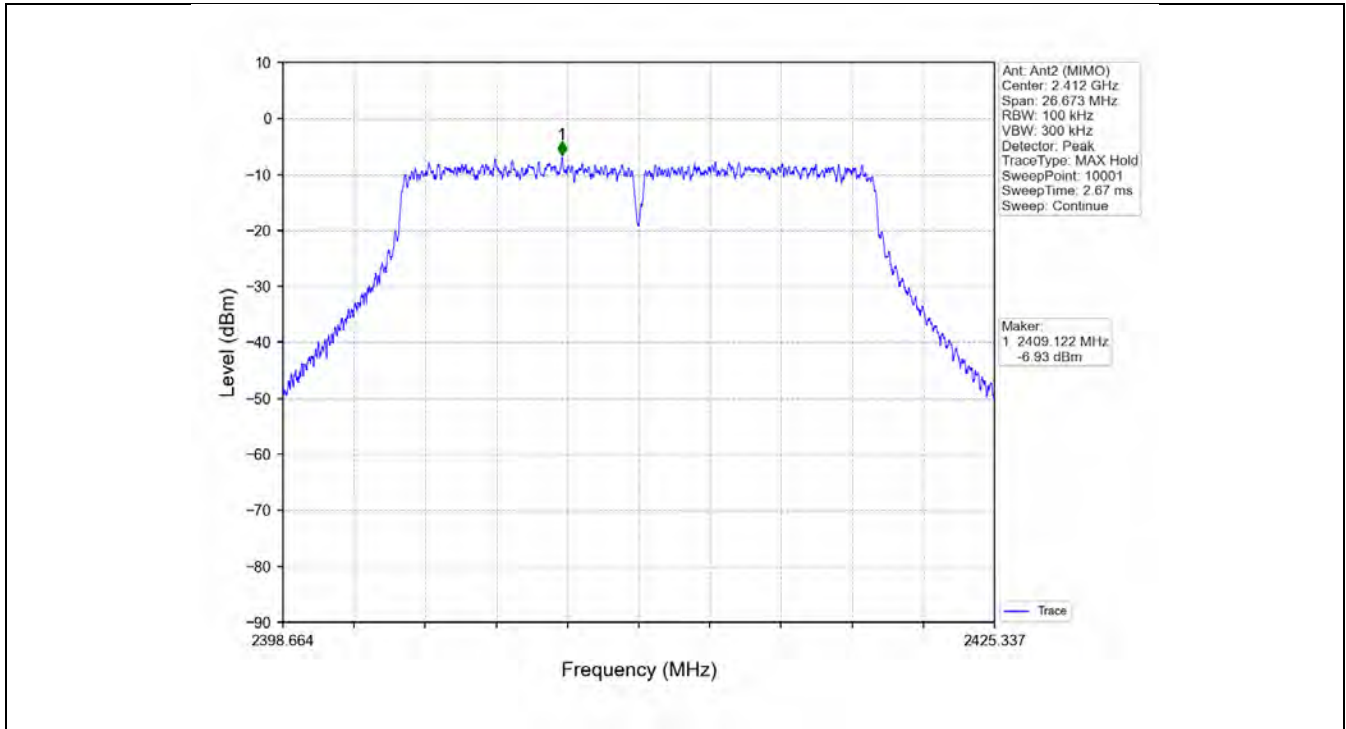


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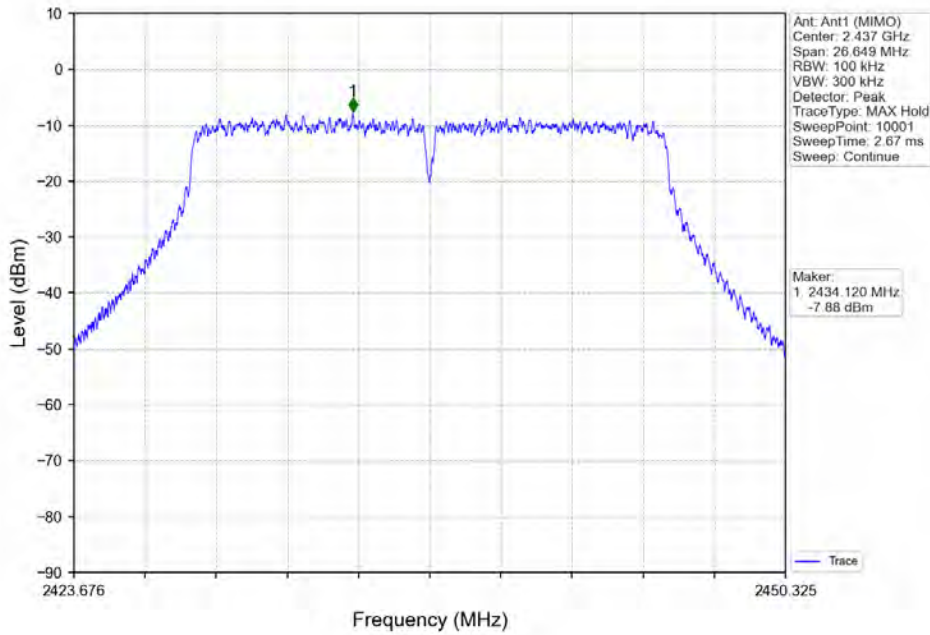
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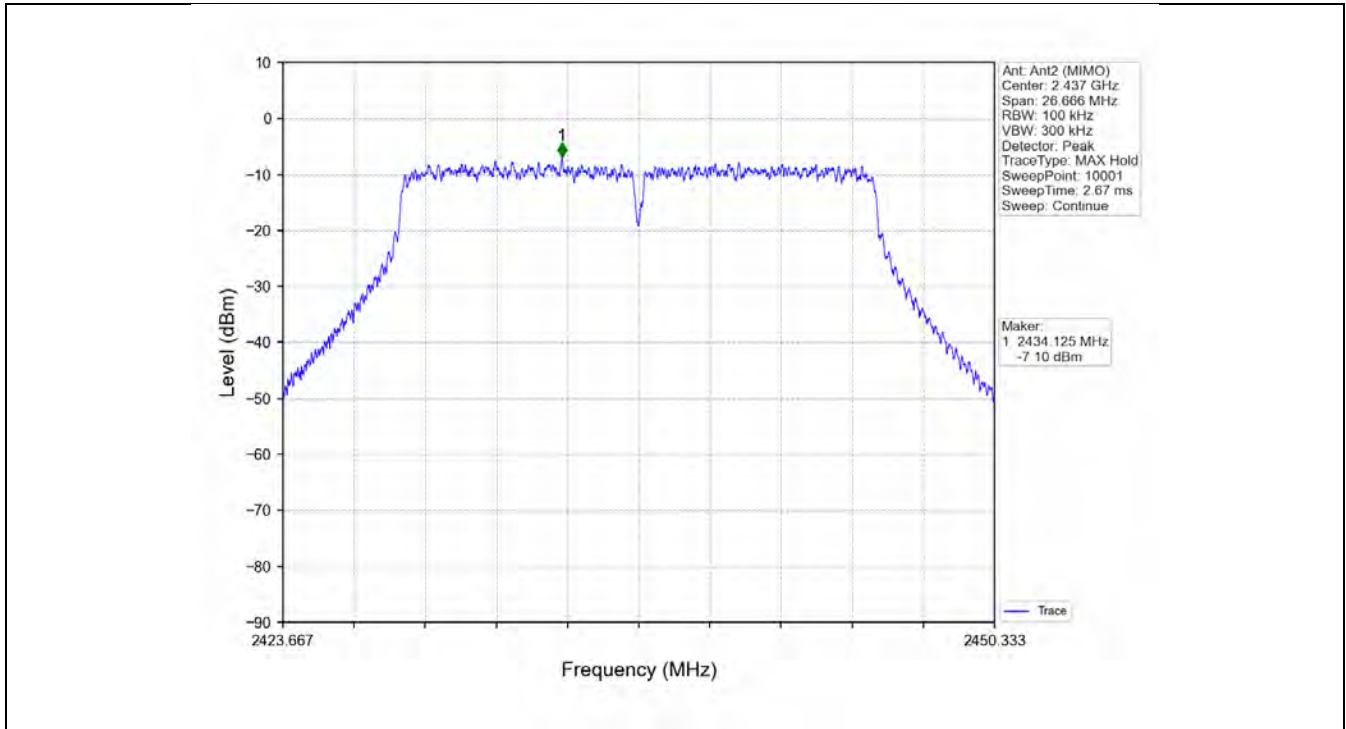
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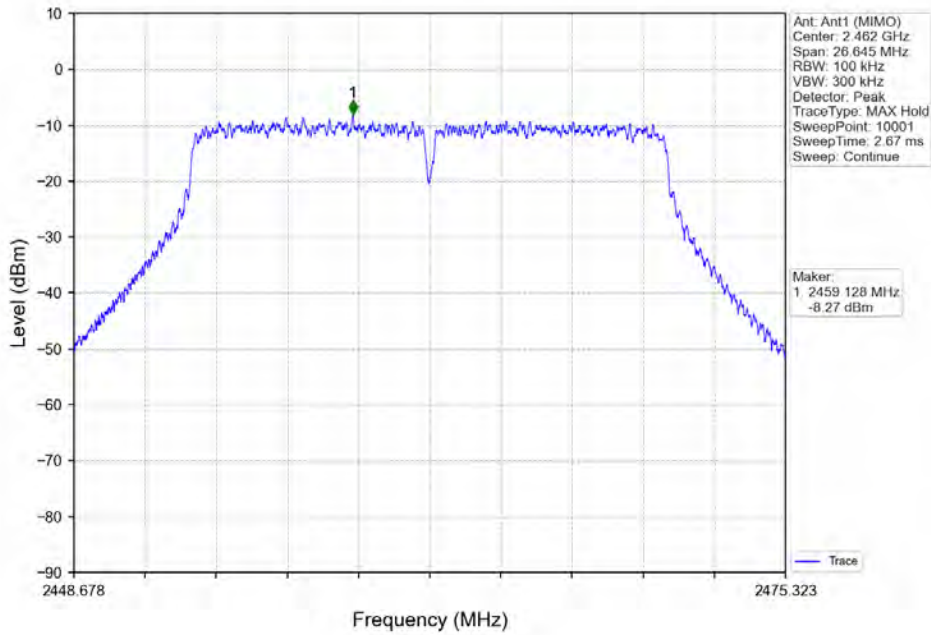
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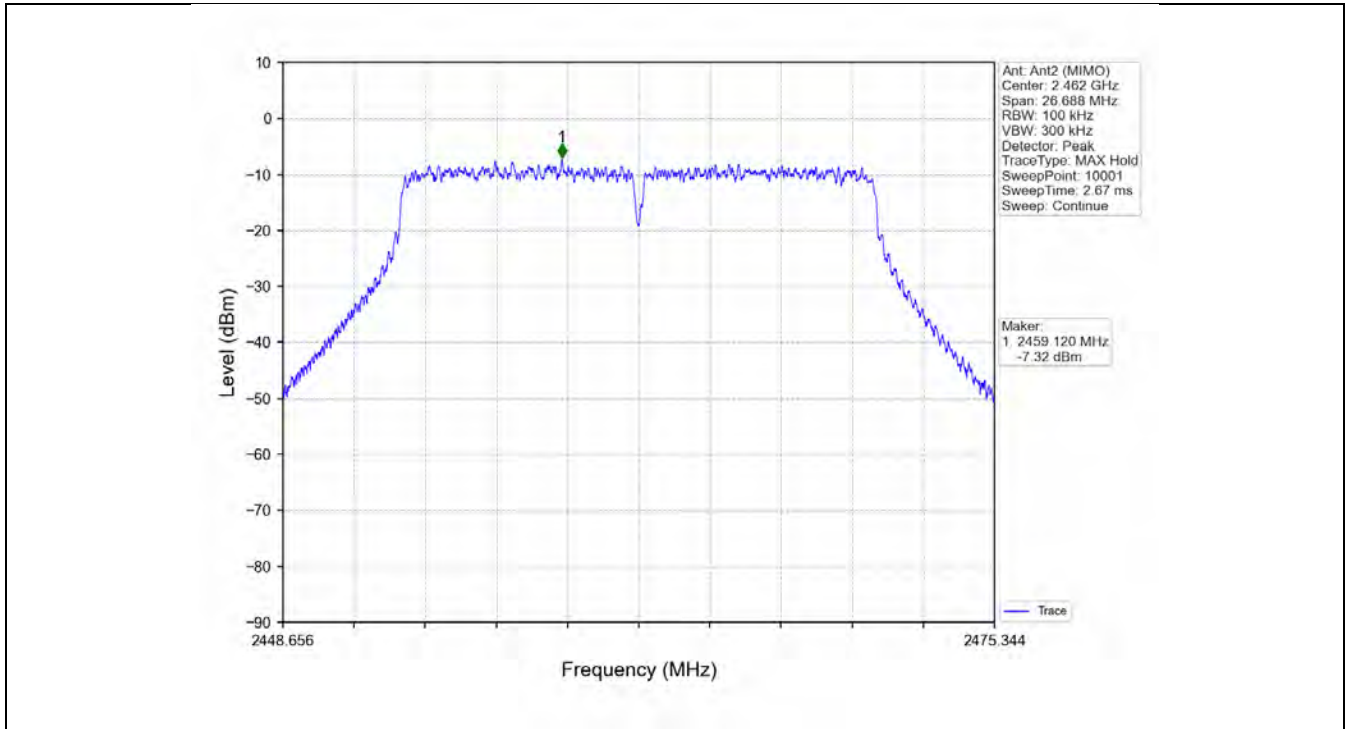
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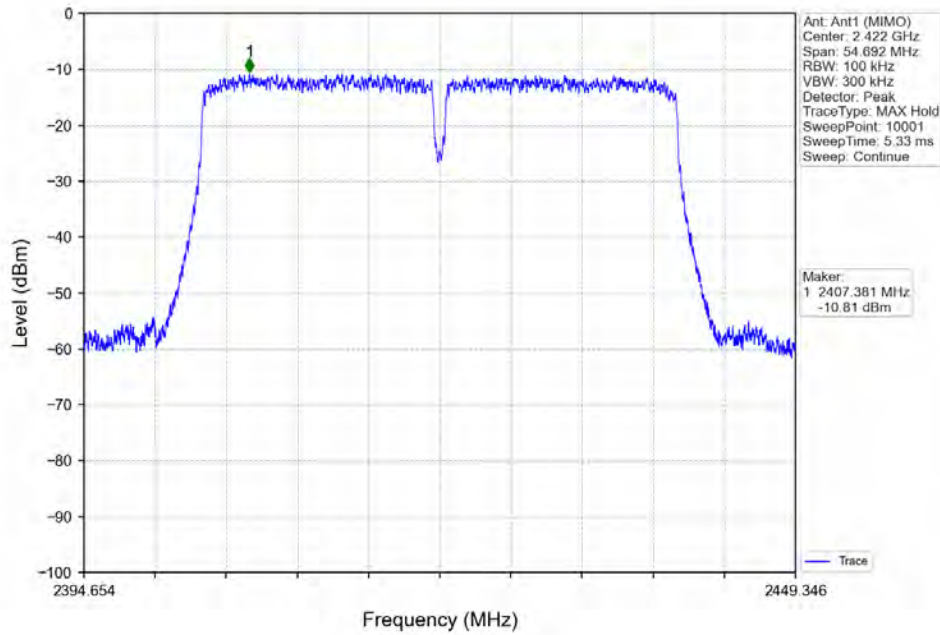
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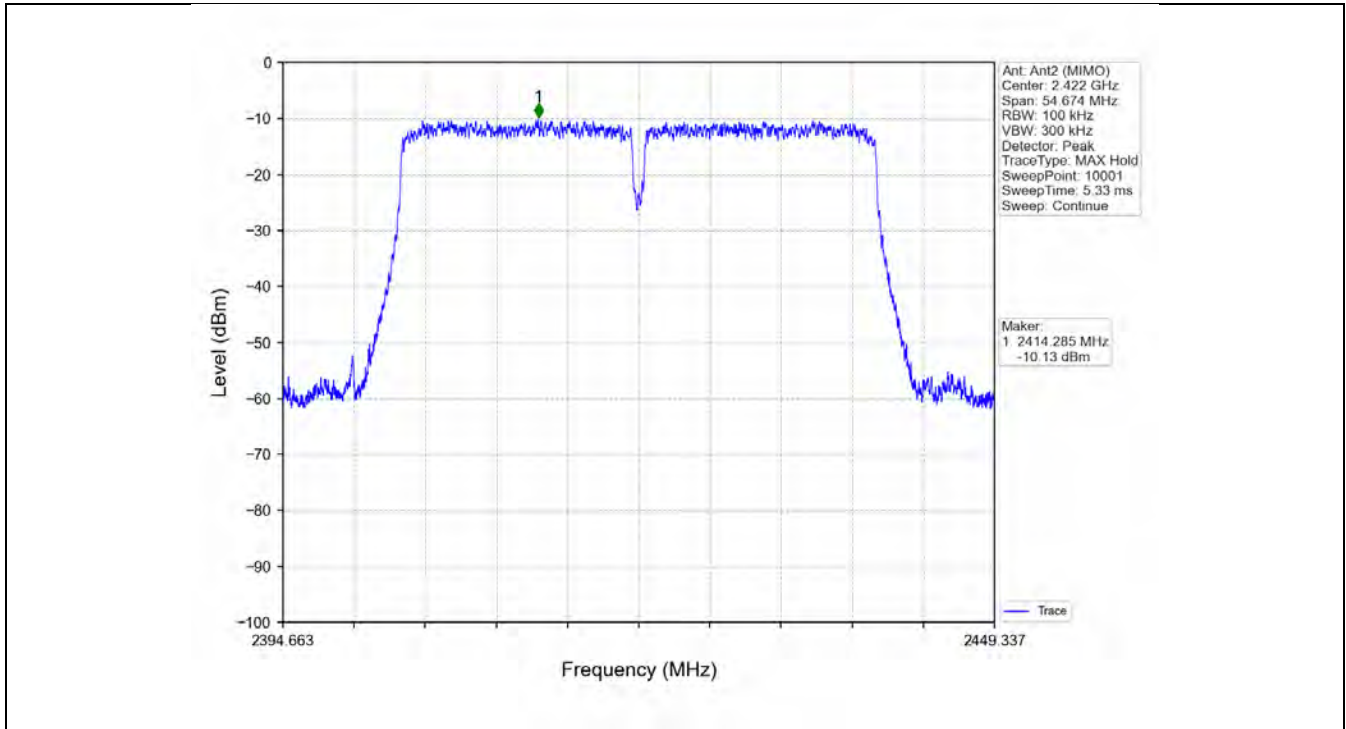
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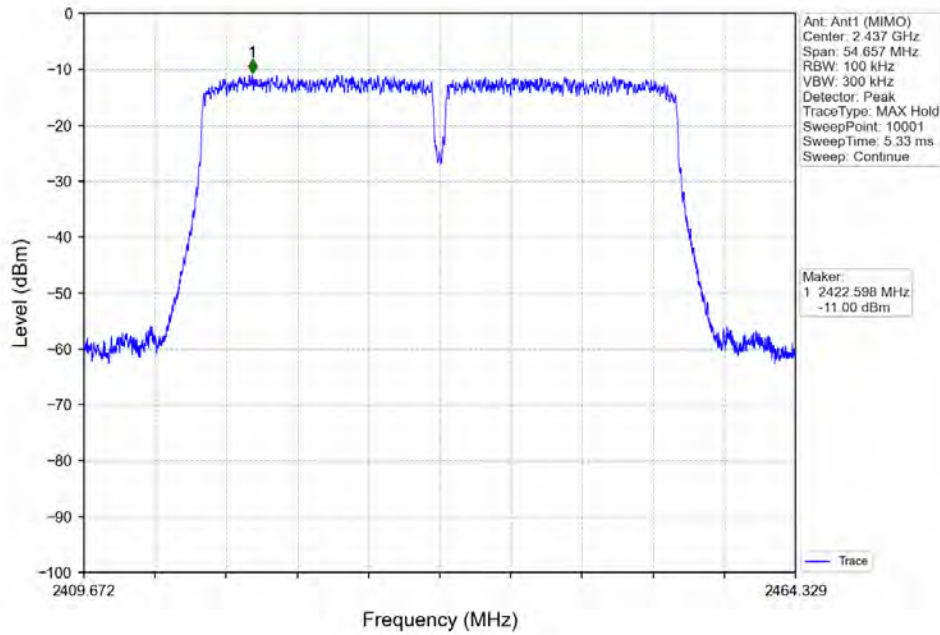
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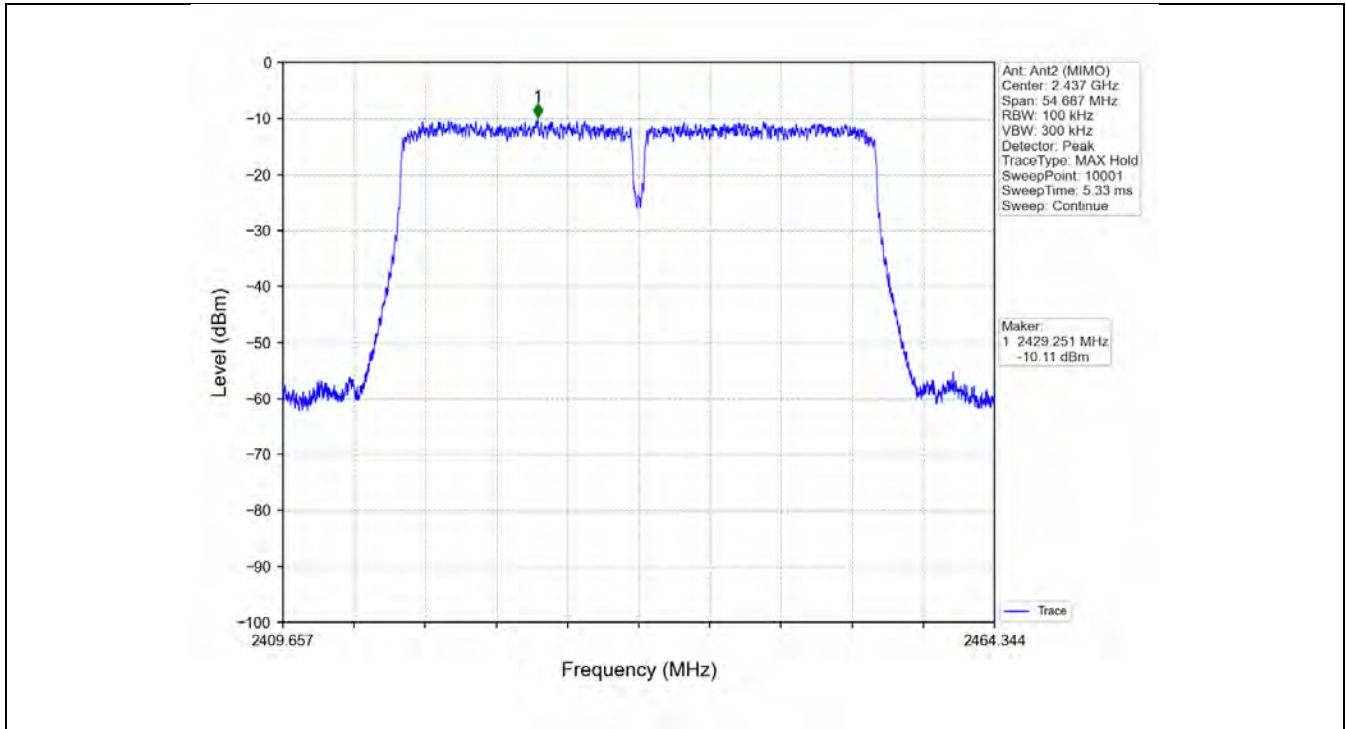
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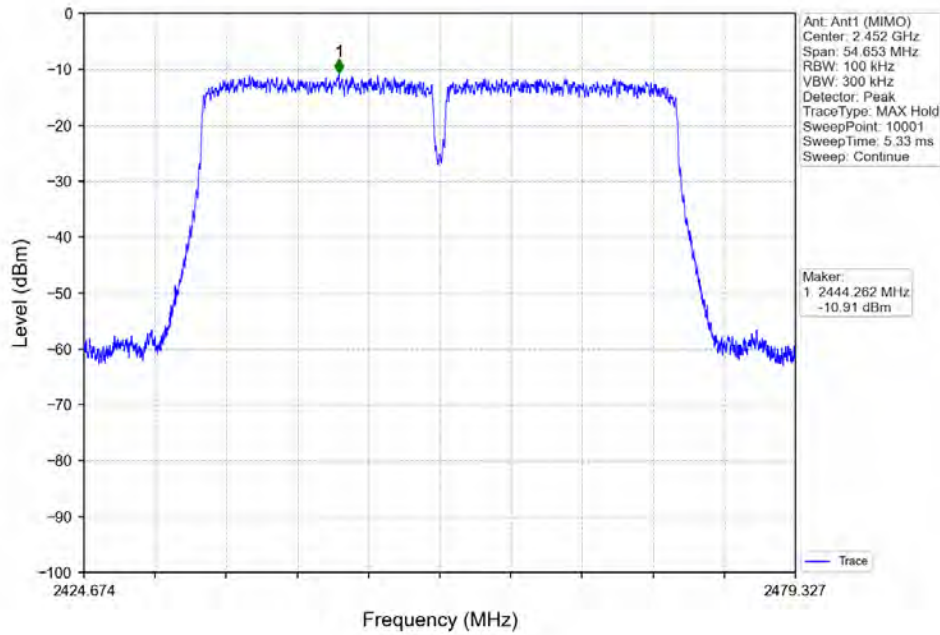
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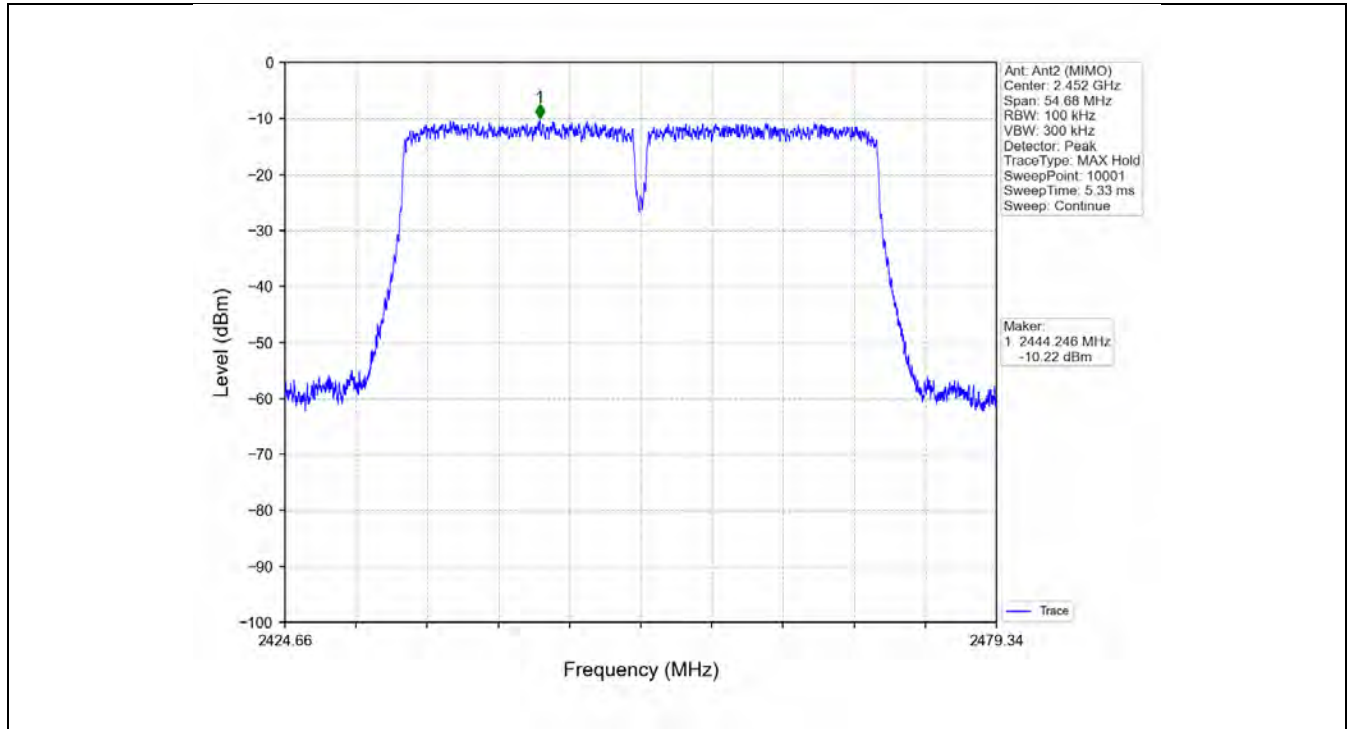
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## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.00	-15.00	Pass
			2	5.71	-14.29	Pass
		2437	1	5.00	-15.00	Pass
			2	5.71	-14.29	Pass
		2462	1	5.00	-15.00	Pass
			2	5.71	-14.29	Pass
802.11g	SISO	2412	1	-4.01	-24.01	Pass
			2	-3.97	-23.97	Pass
		2437	1	-4.01	-24.01	Pass
			2	-3.97	-23.97	Pass
		2462	1	-4.01	-24.01	Pass
			2	-3.97	-23.97	Pass
802.11n (HT20)	MIMO	2412	1	-7.88	-27.88	Pass
			2	-6.93	-26.93	Pass
		2437	1	-7.88	-27.88	Pass
			2	-6.93	-26.93	Pass
		2462	1	-7.88	-27.88	Pass
			2	-6.93	-26.93	Pass
802.11n (HT40)	MIMO	2422	1	-10.81	-30.81	Pass
			2	-10.11	-30.11	Pass
		2437	1	-10.81	-30.81	Pass
			2	-10.11	-30.11	Pass
		2452	1	-10.81	-30.81	Pass
			2	-10.11	-30.11	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.



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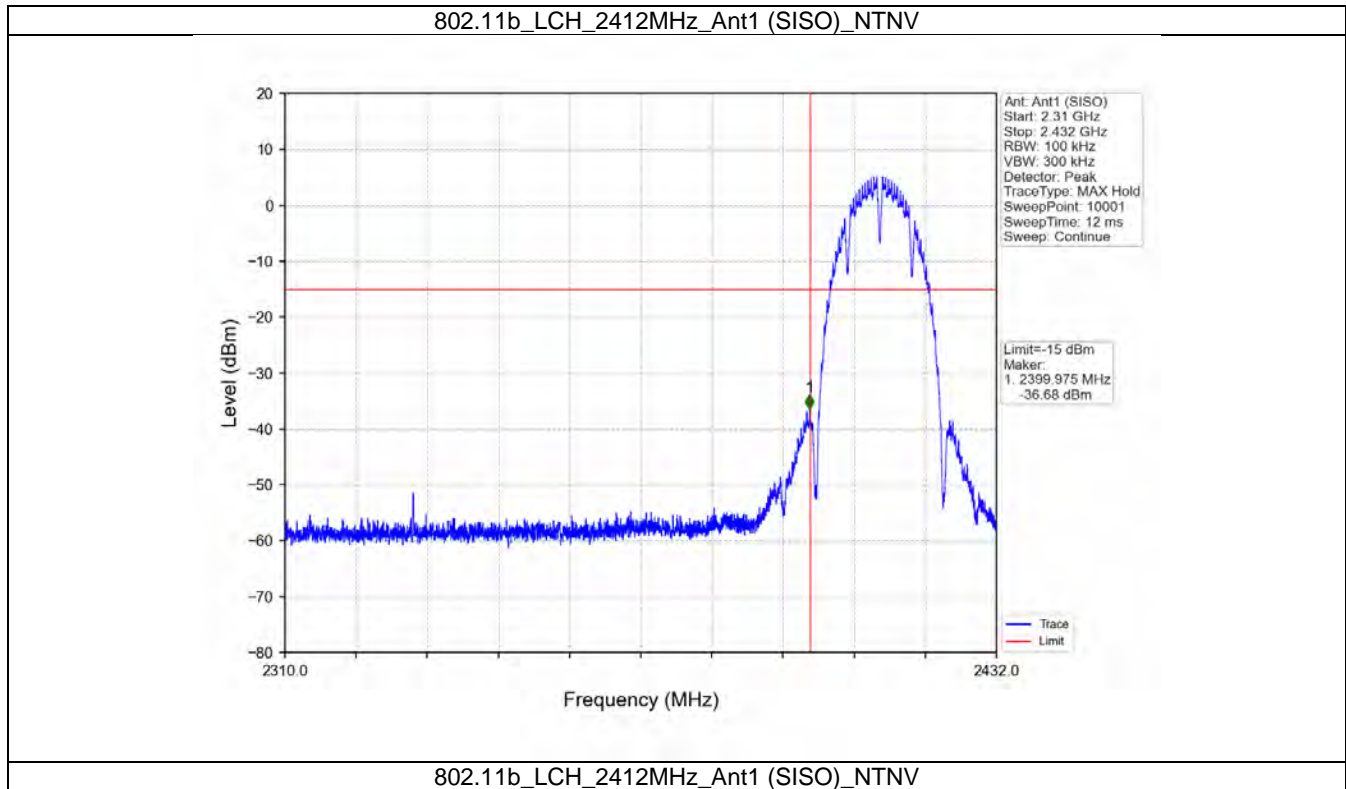
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### 5.2.2 Test Graph

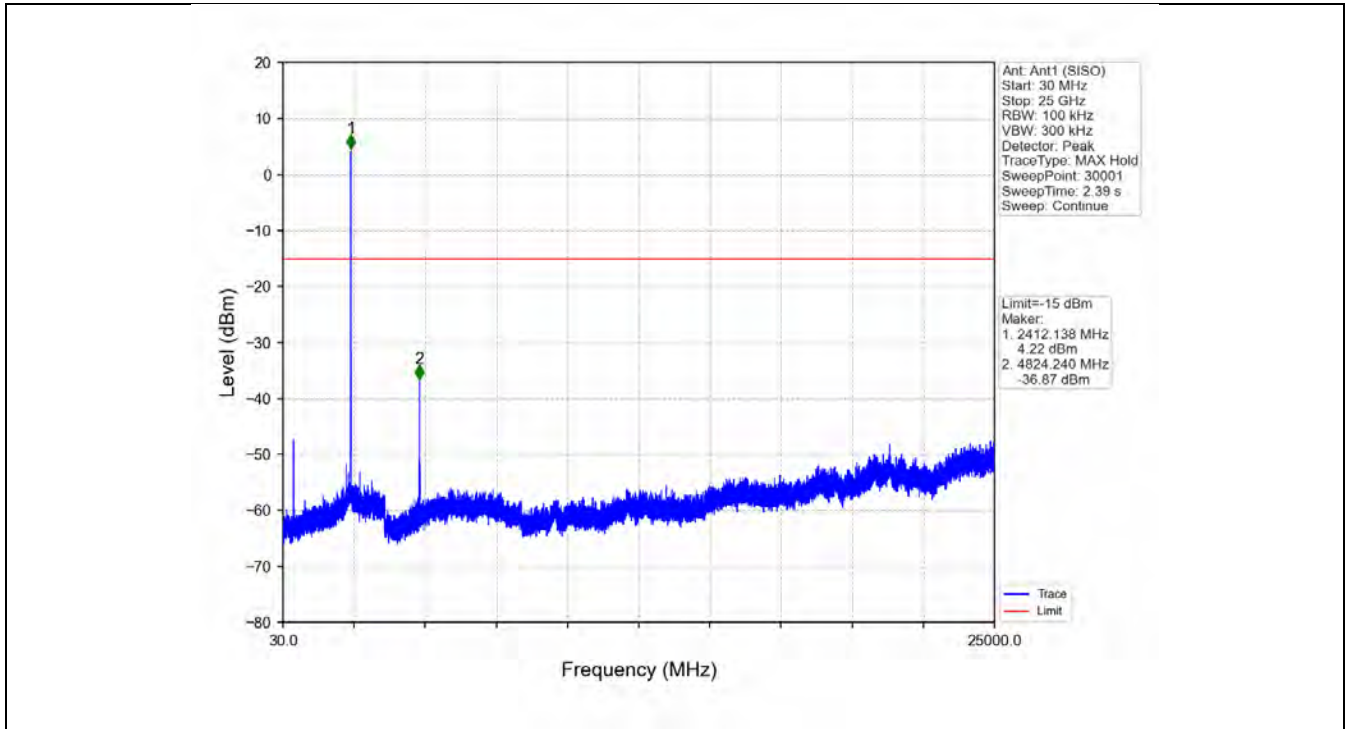


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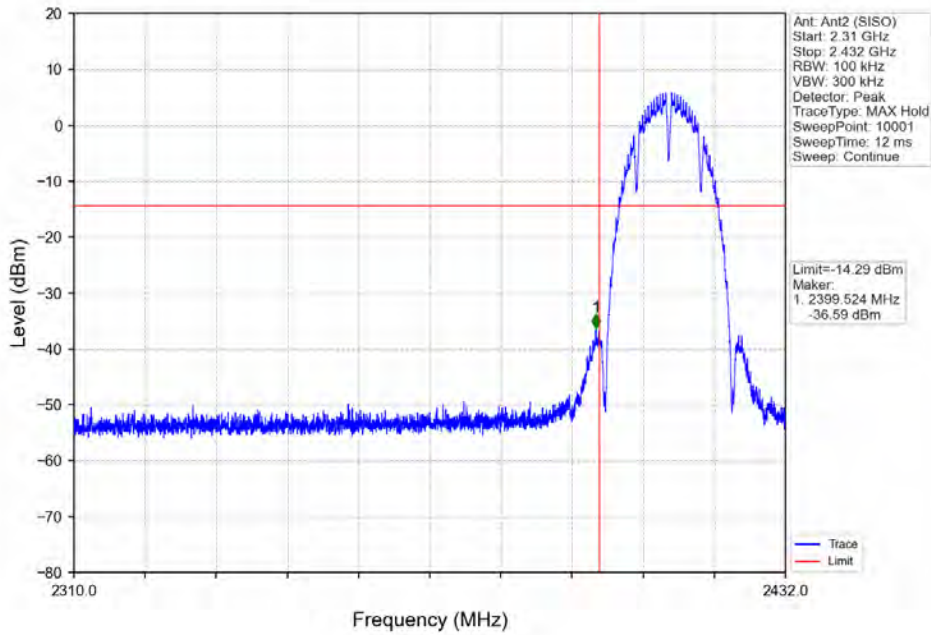
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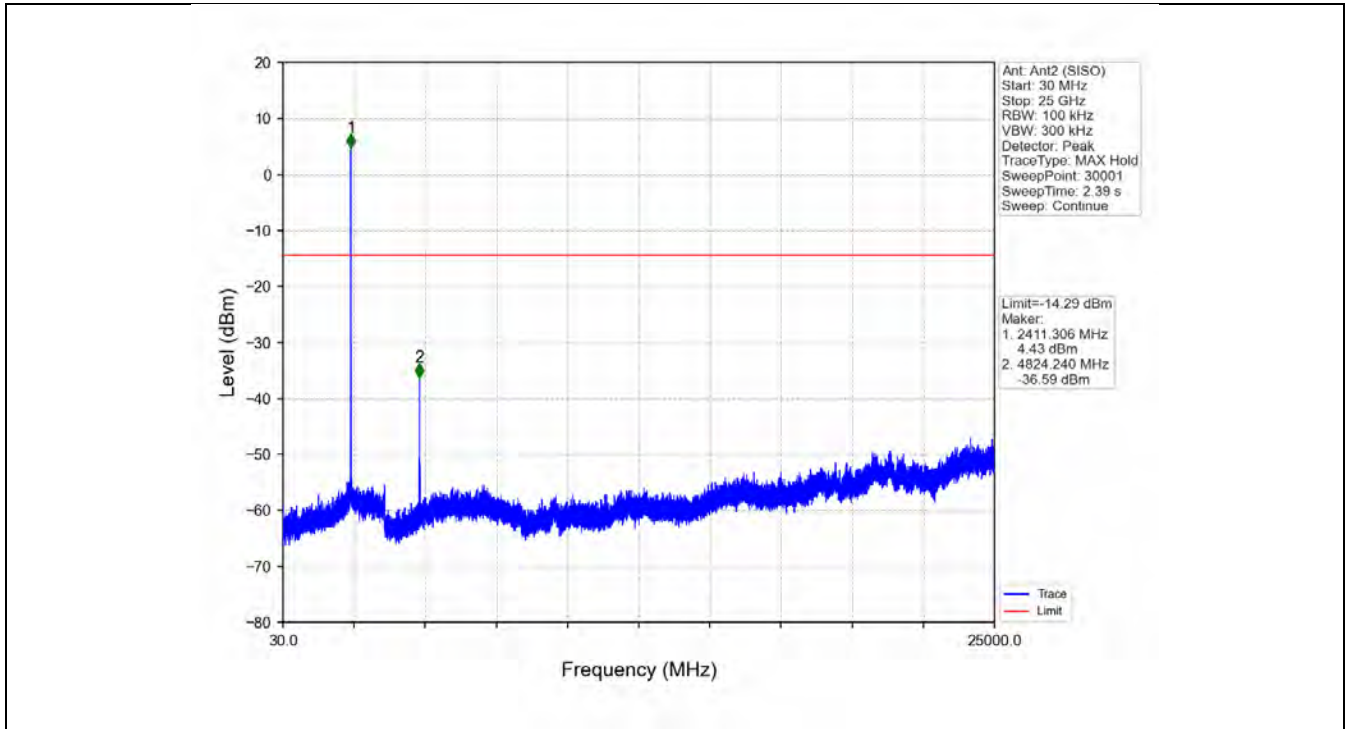
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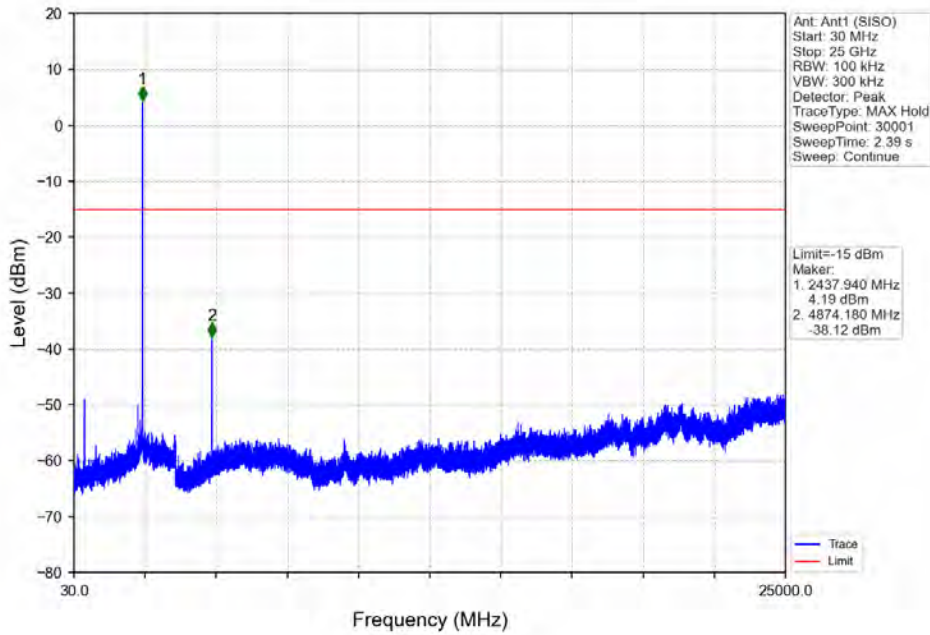
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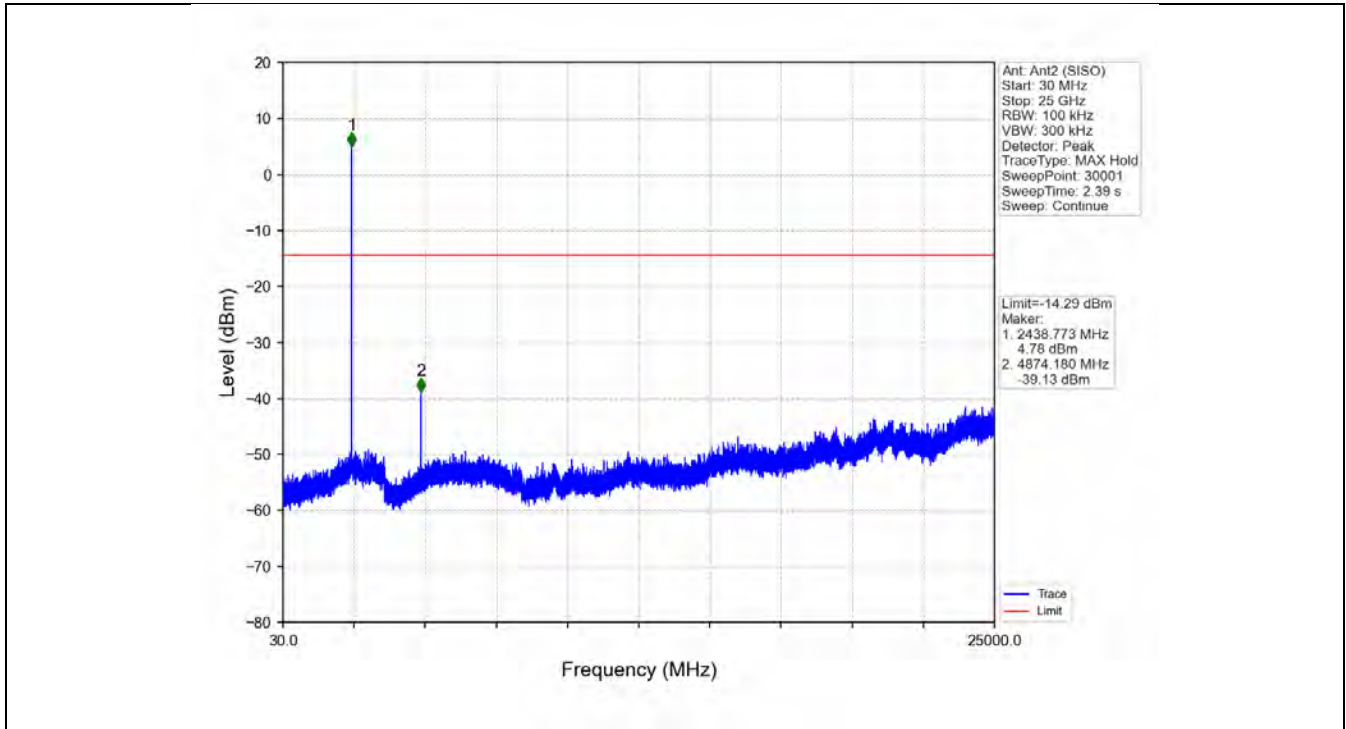


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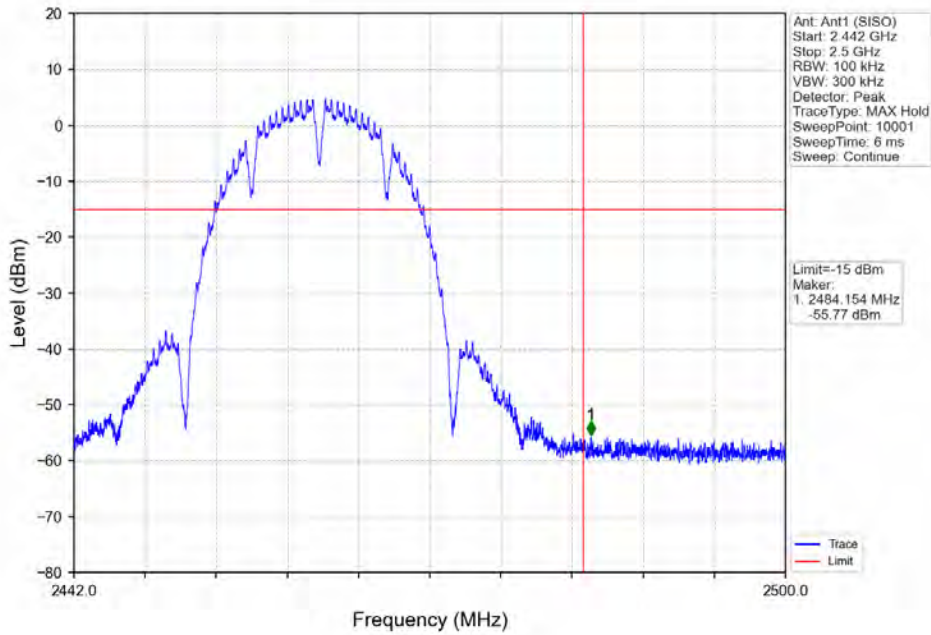
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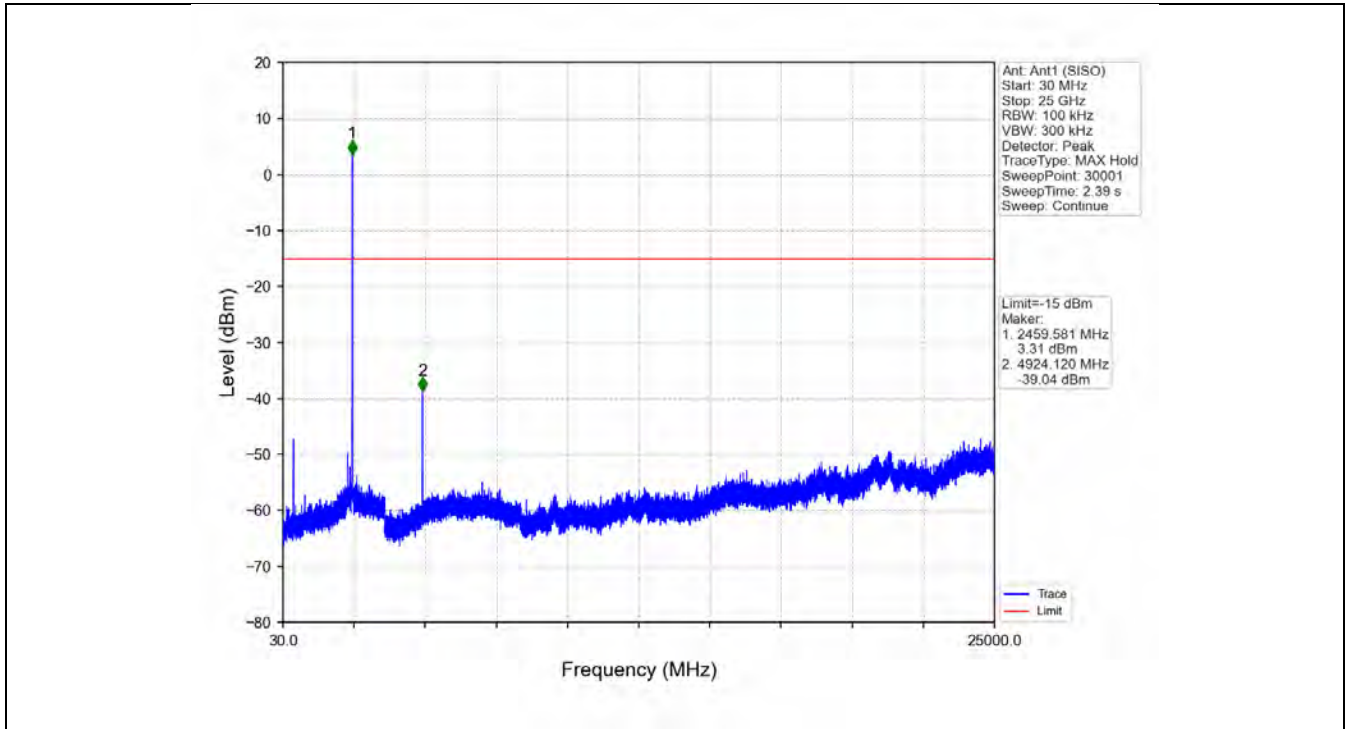


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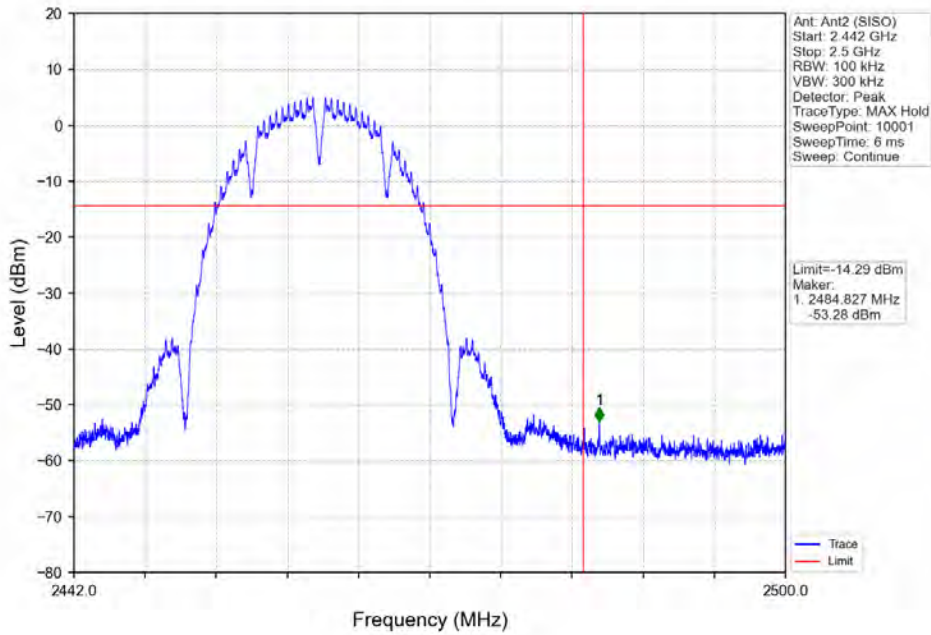
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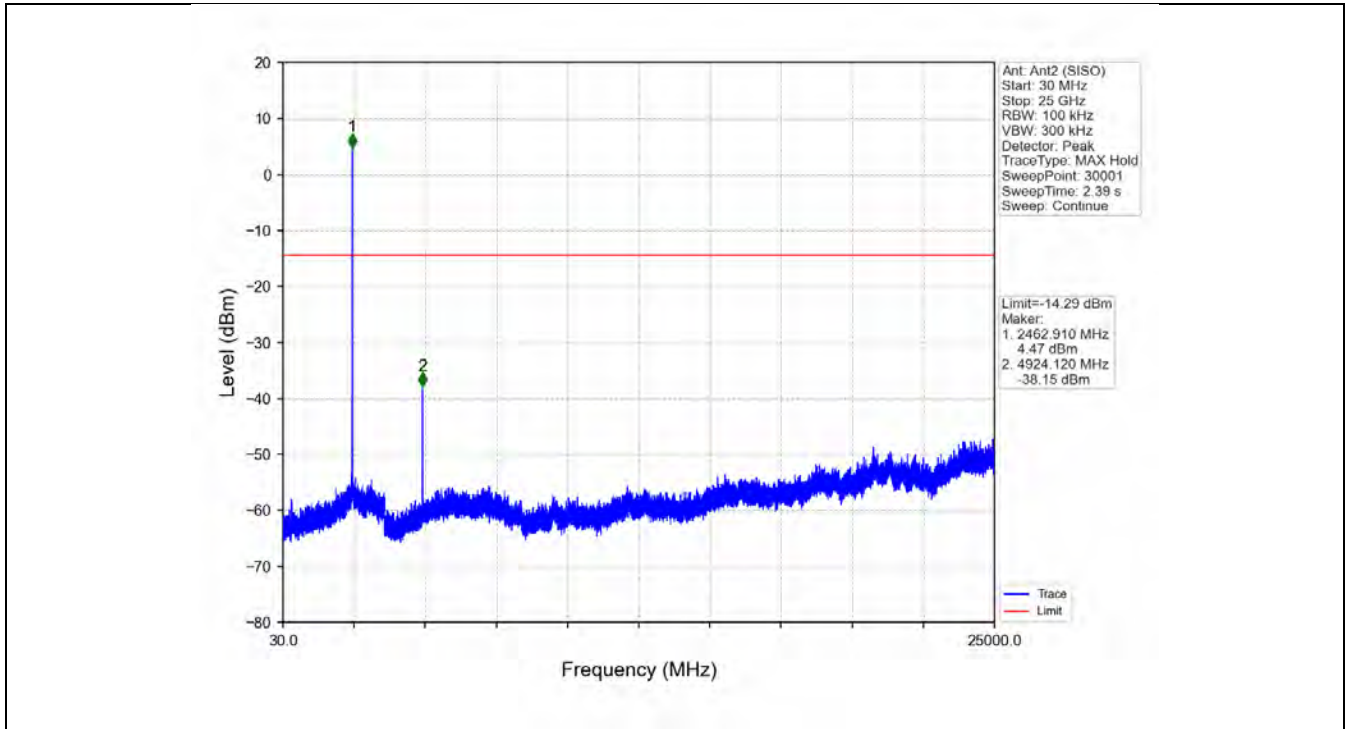


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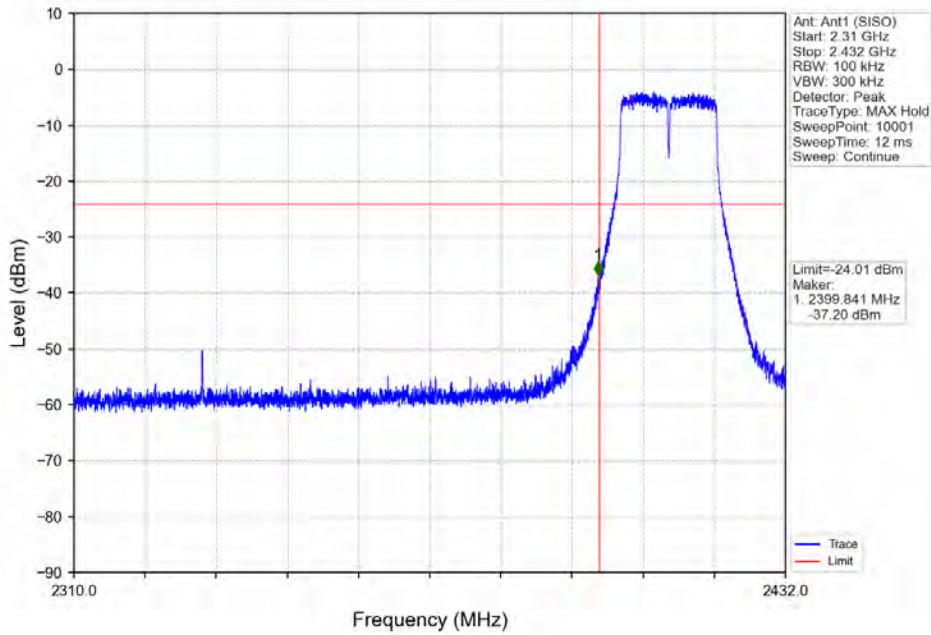
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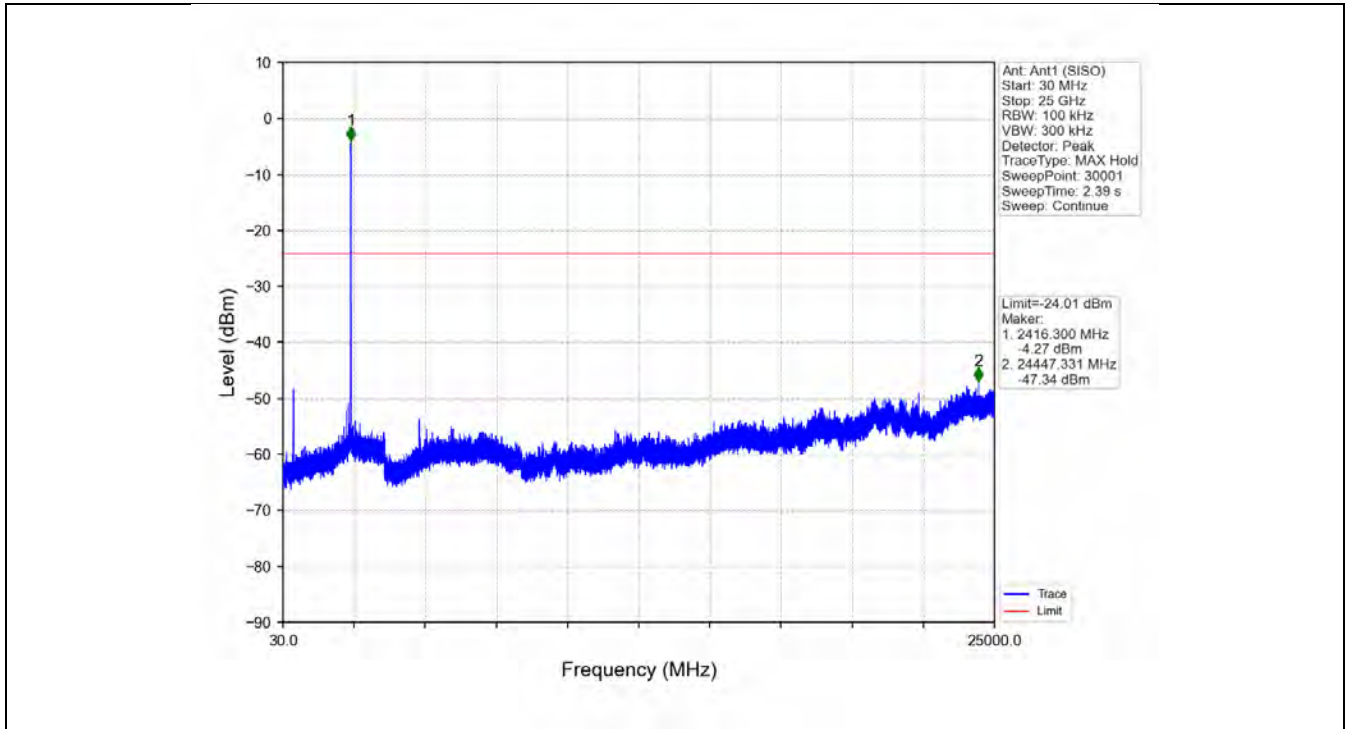
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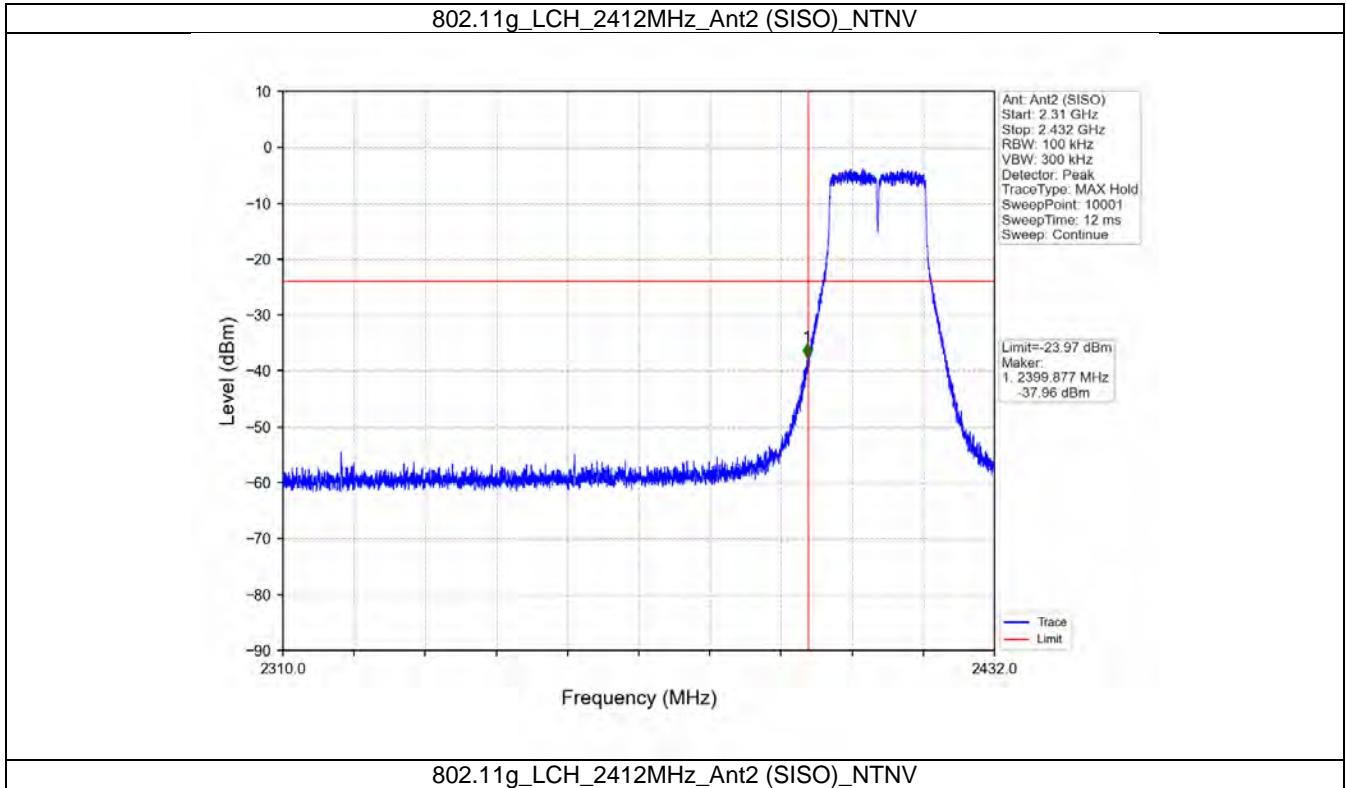
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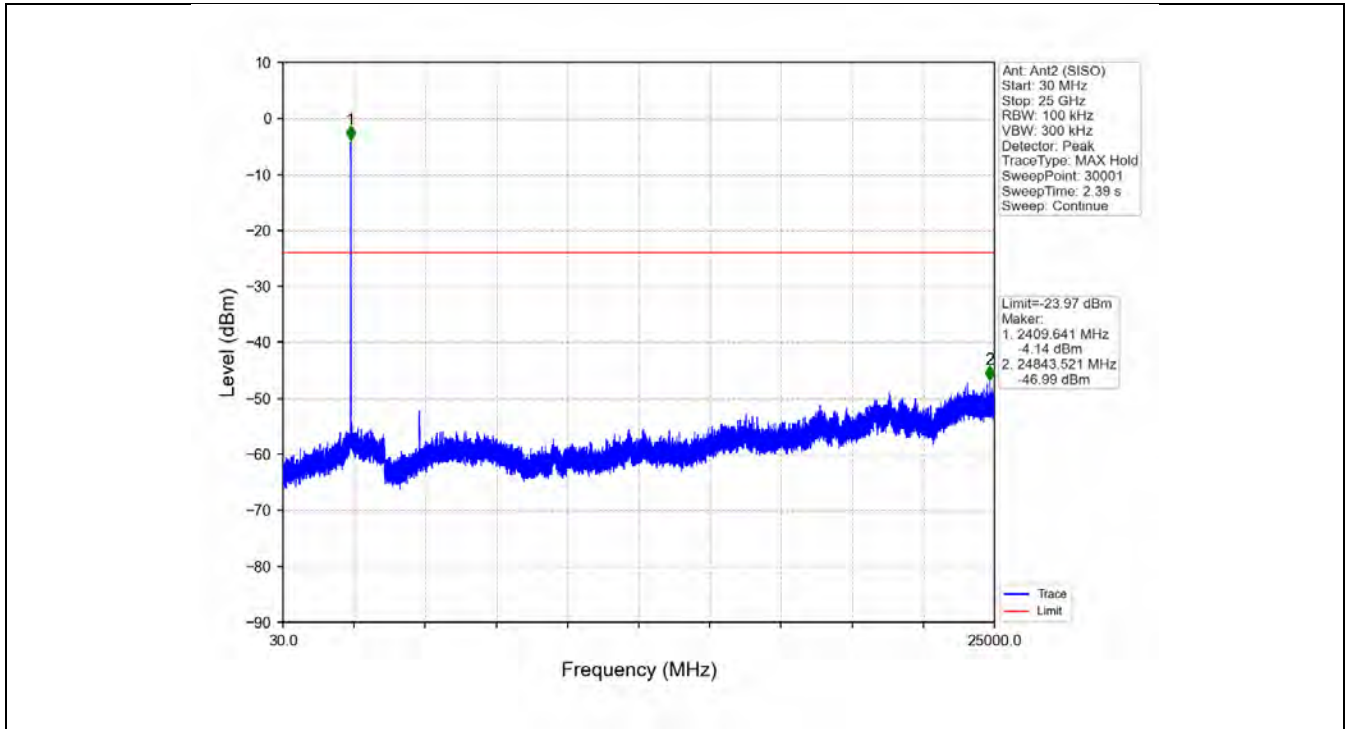
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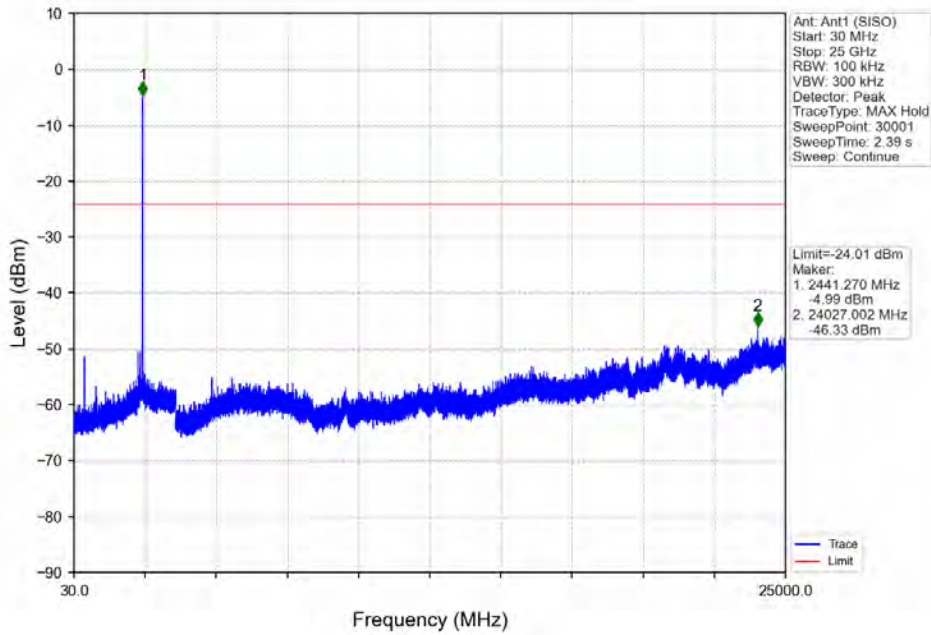
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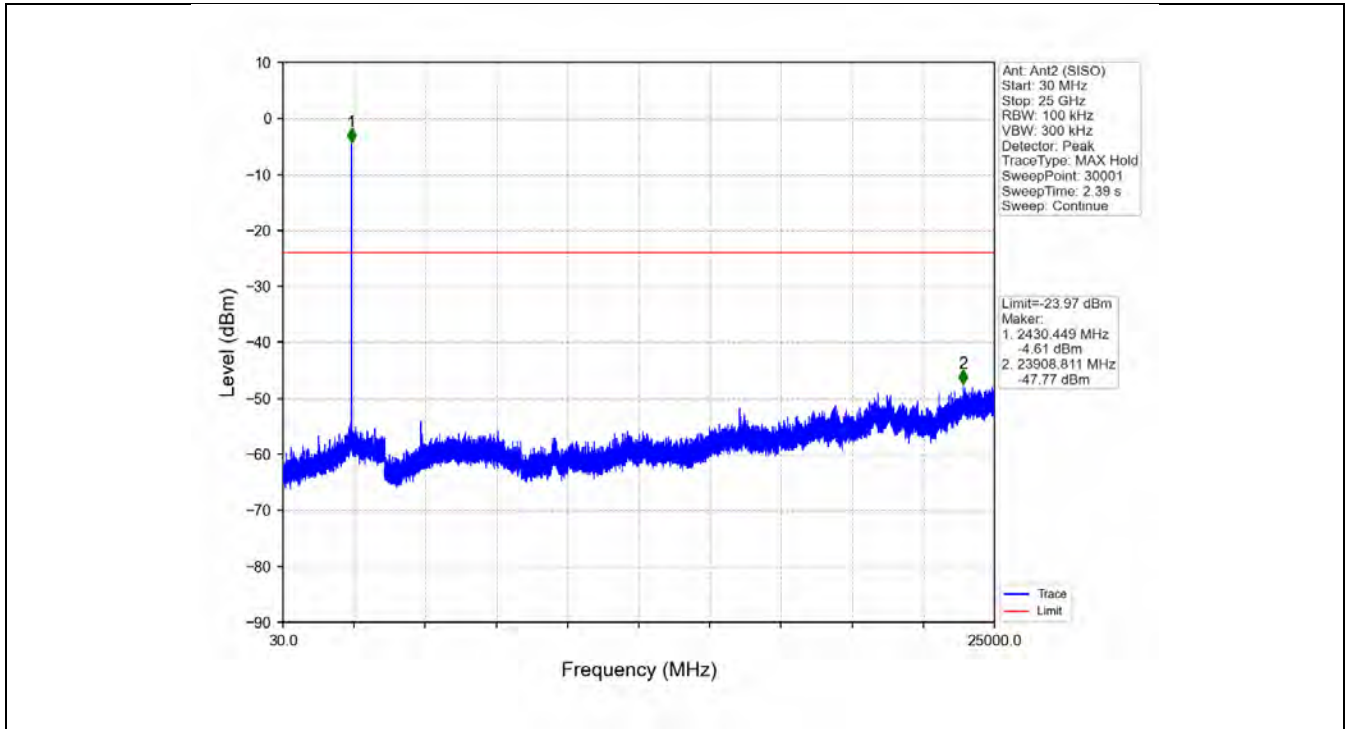


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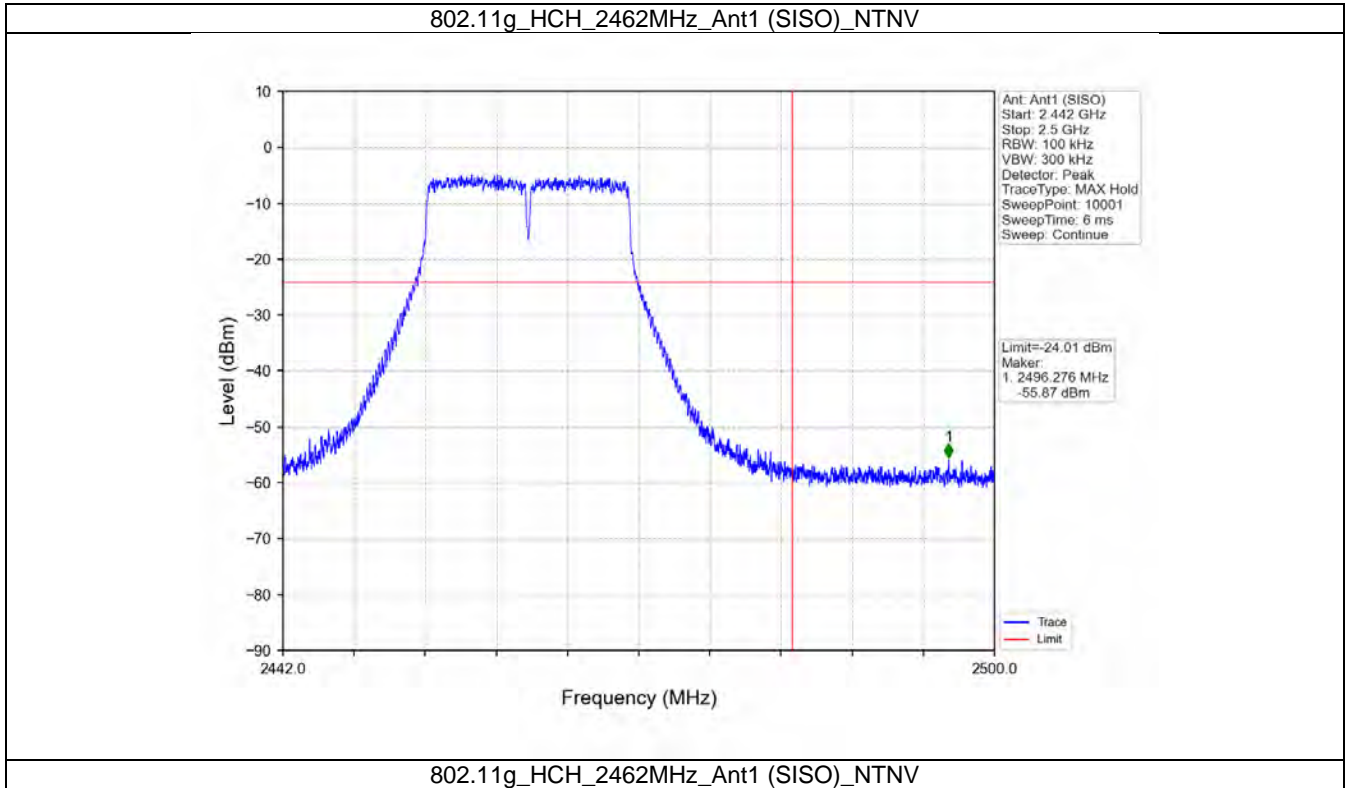
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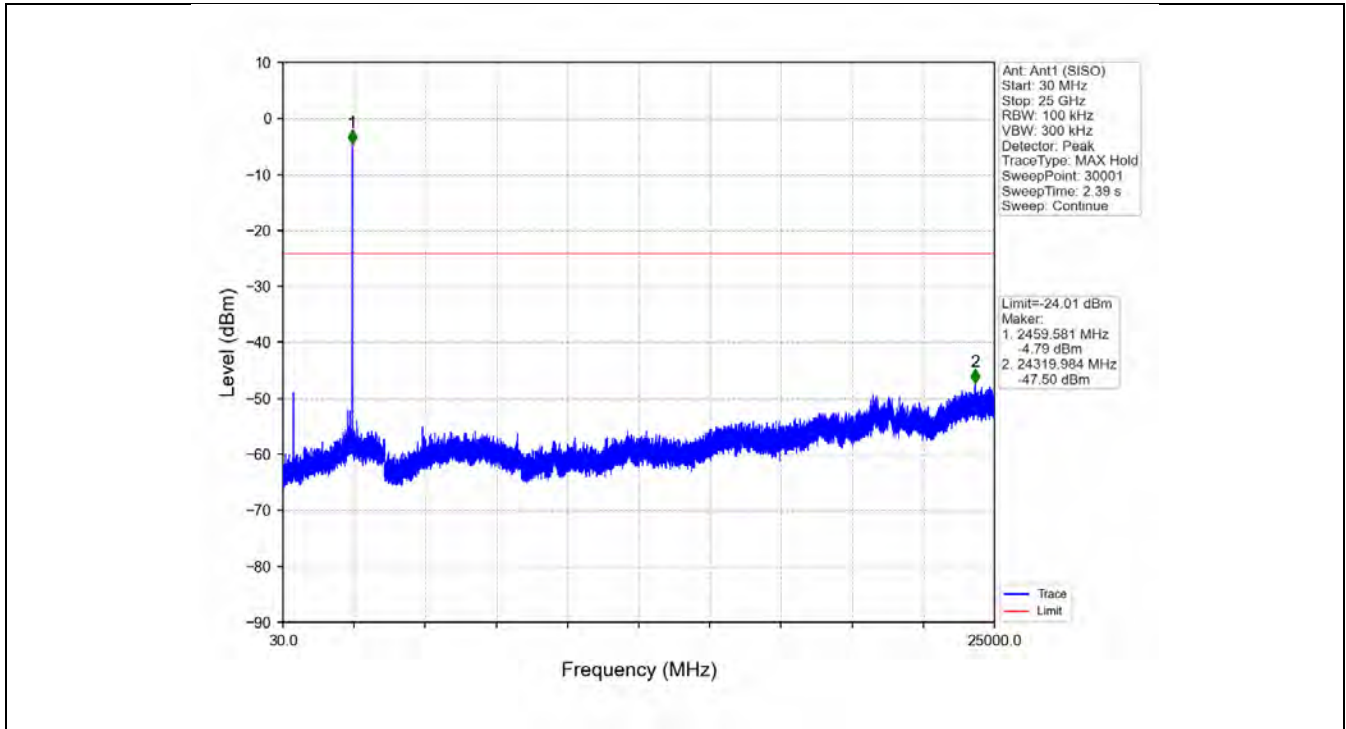
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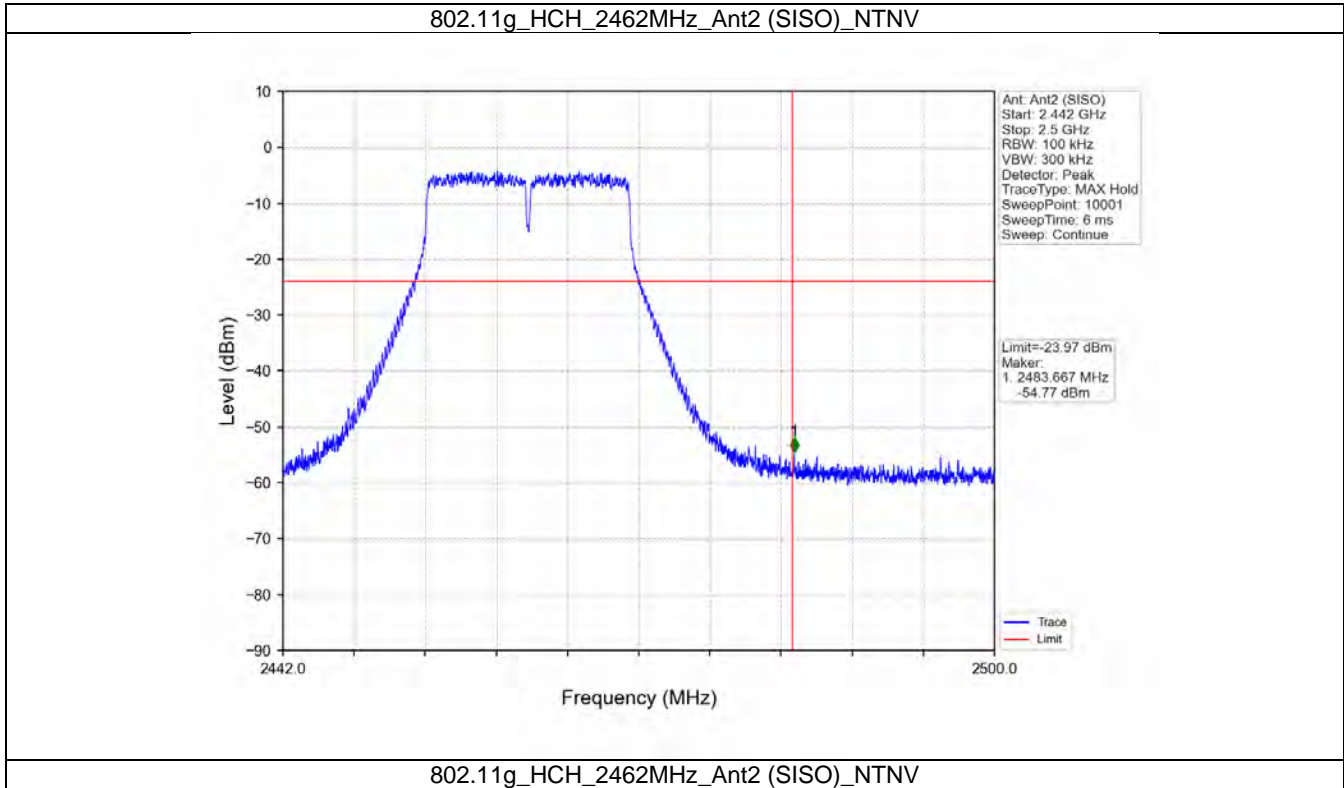


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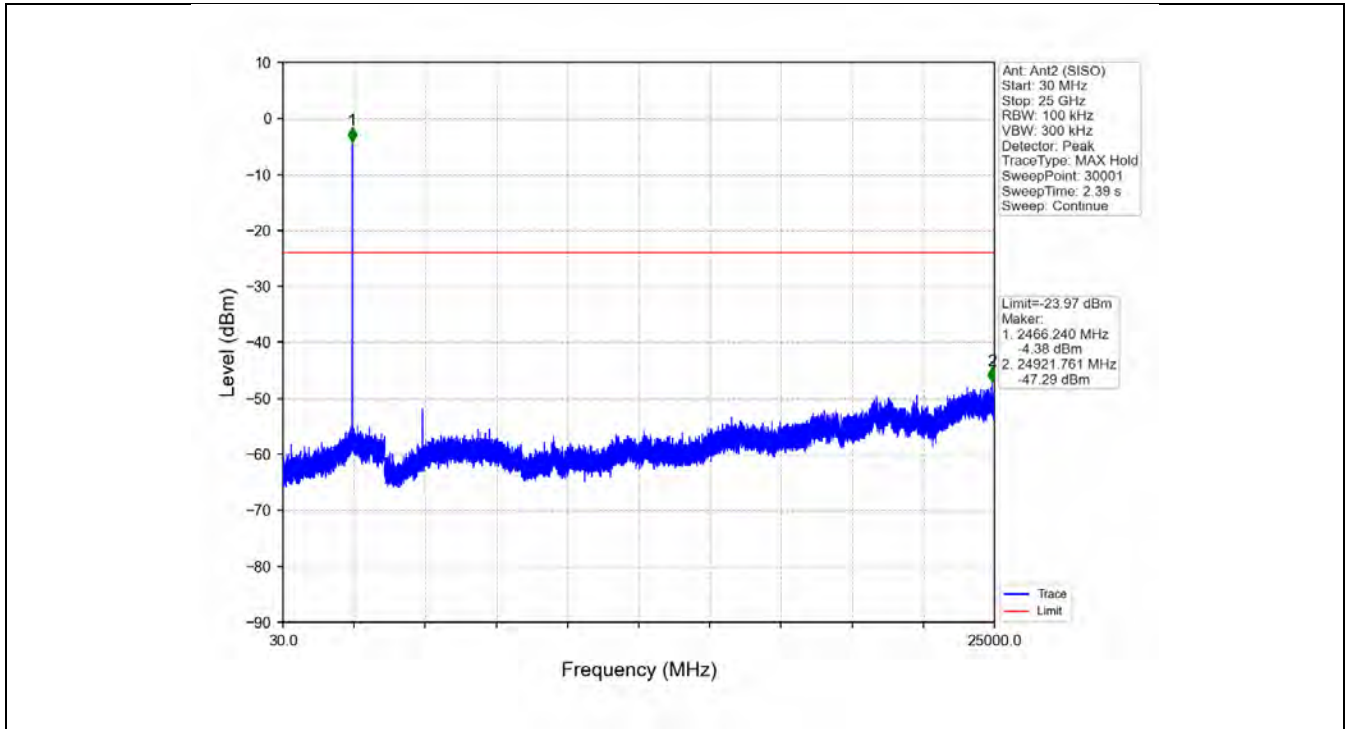


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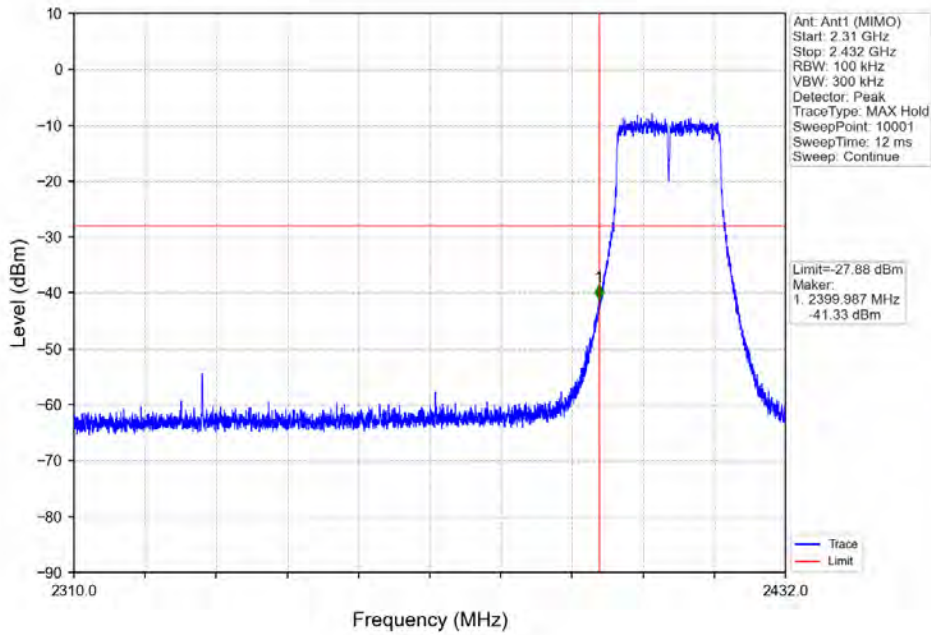
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



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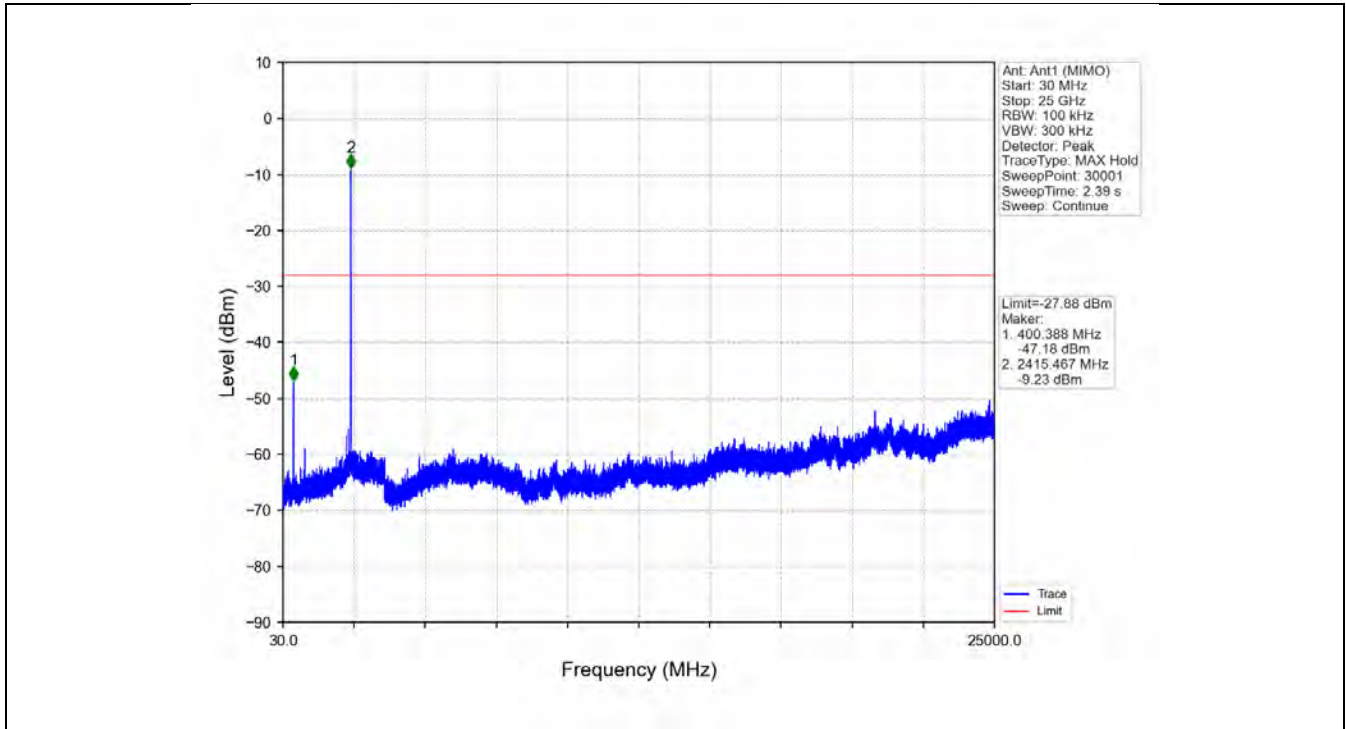


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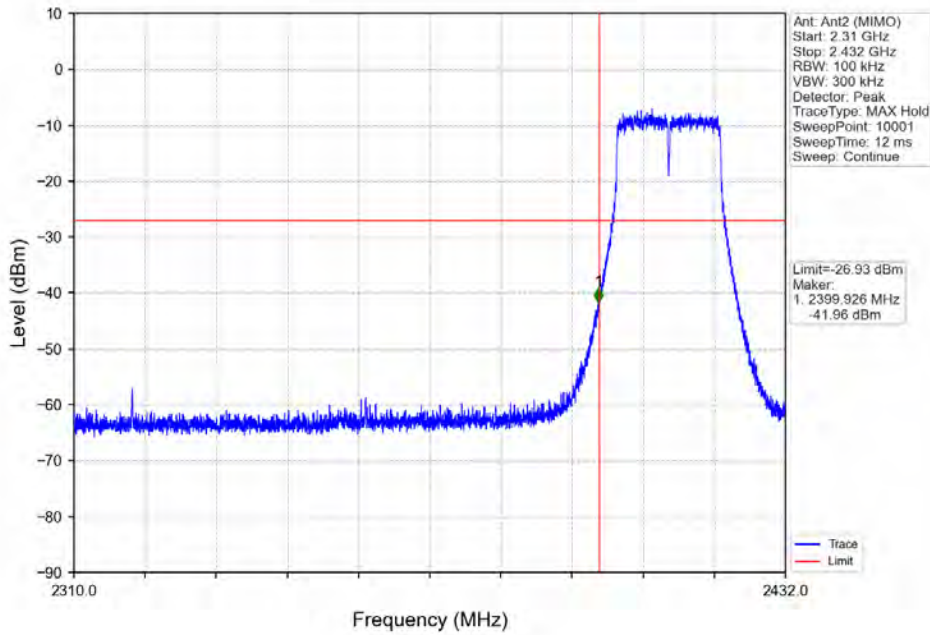
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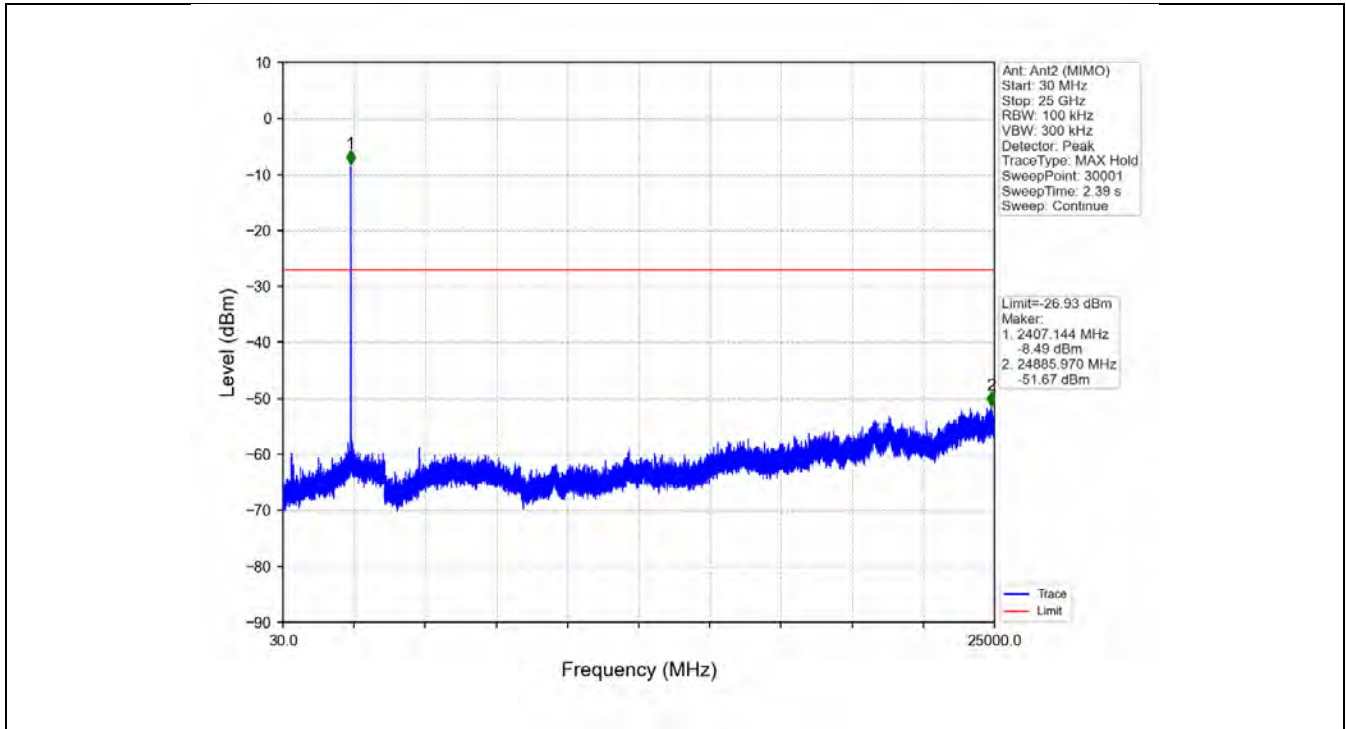
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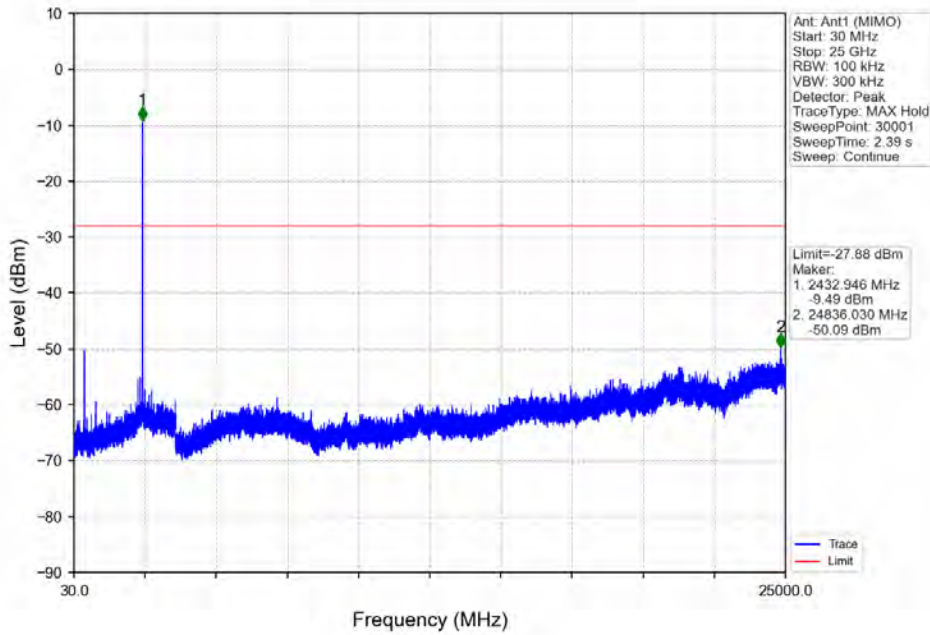
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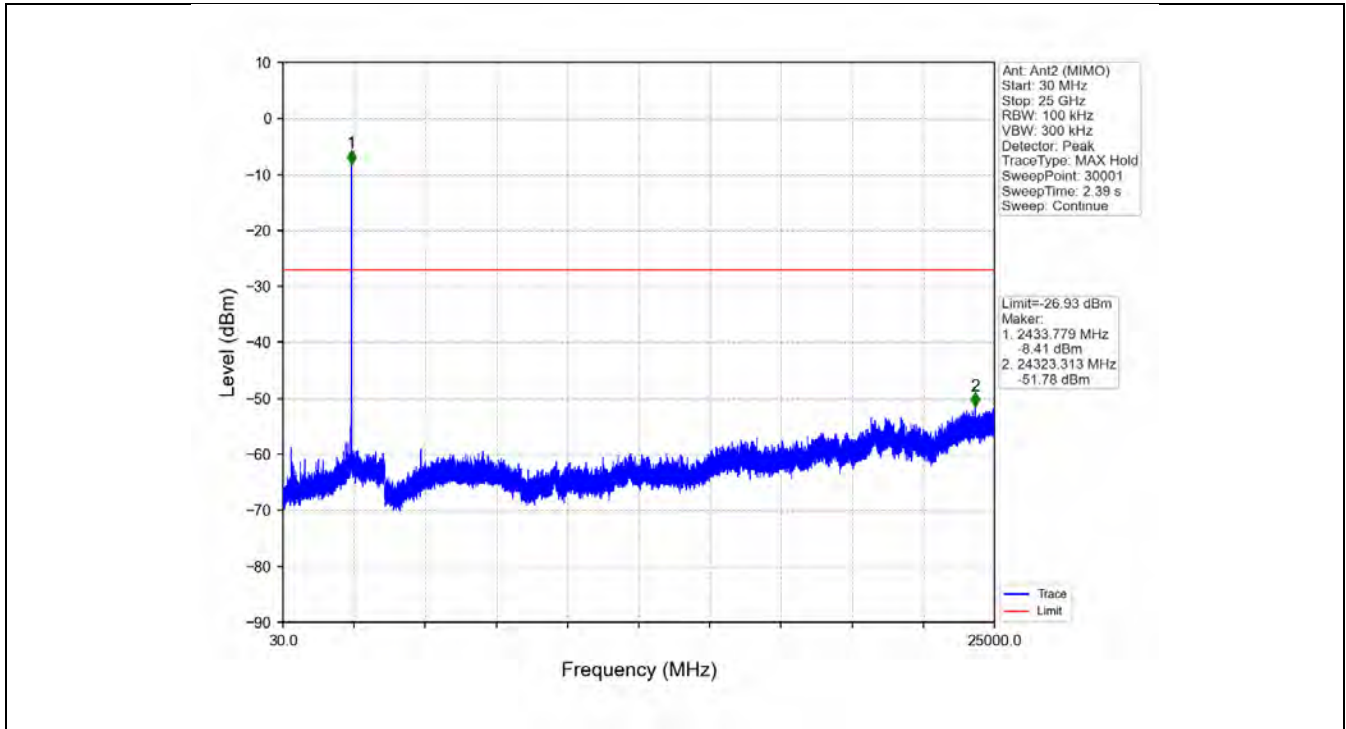


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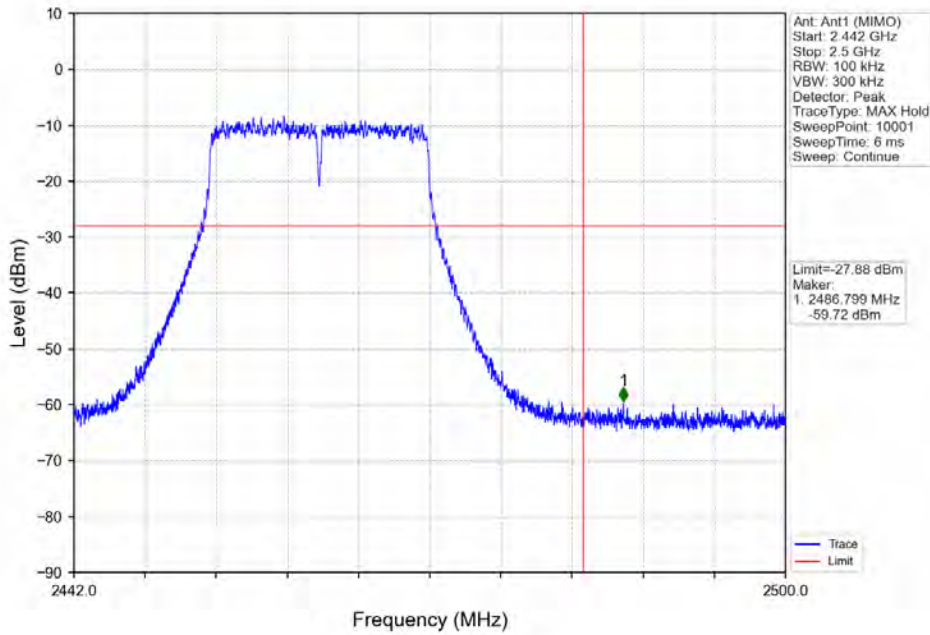
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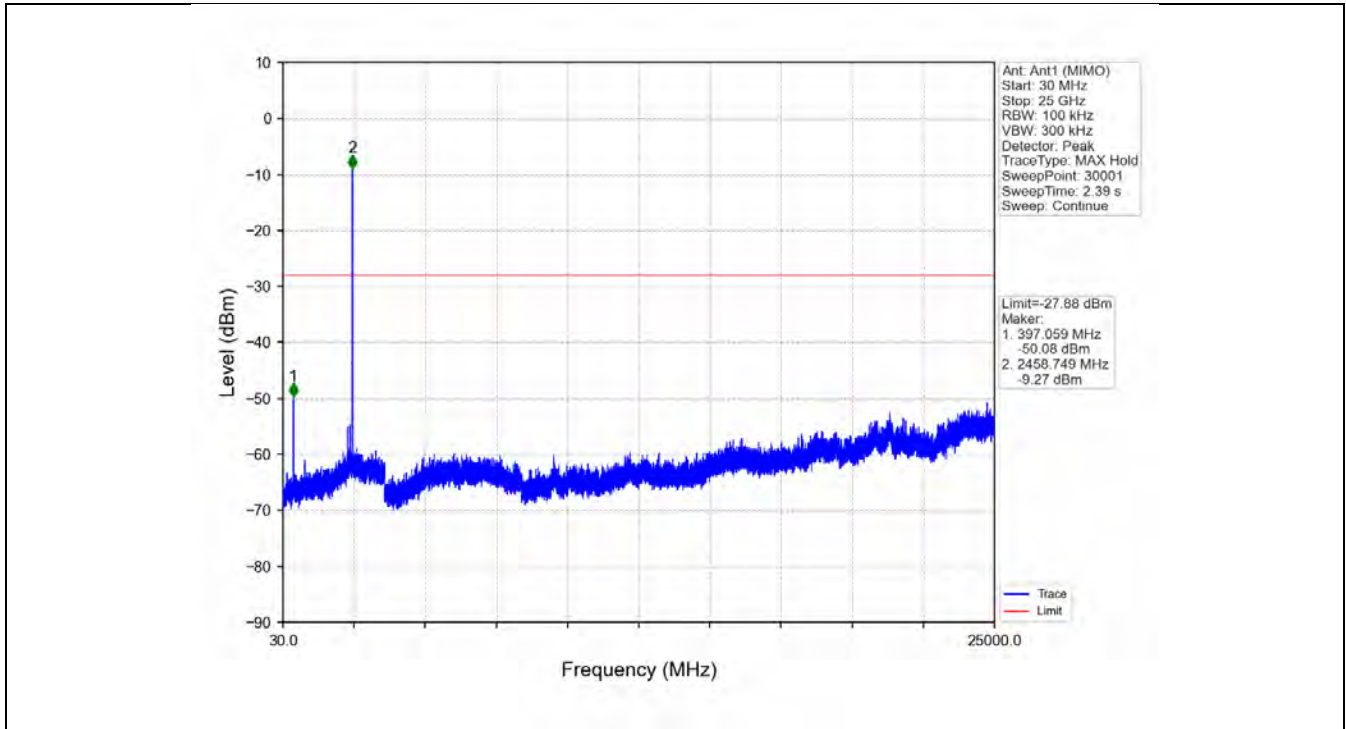
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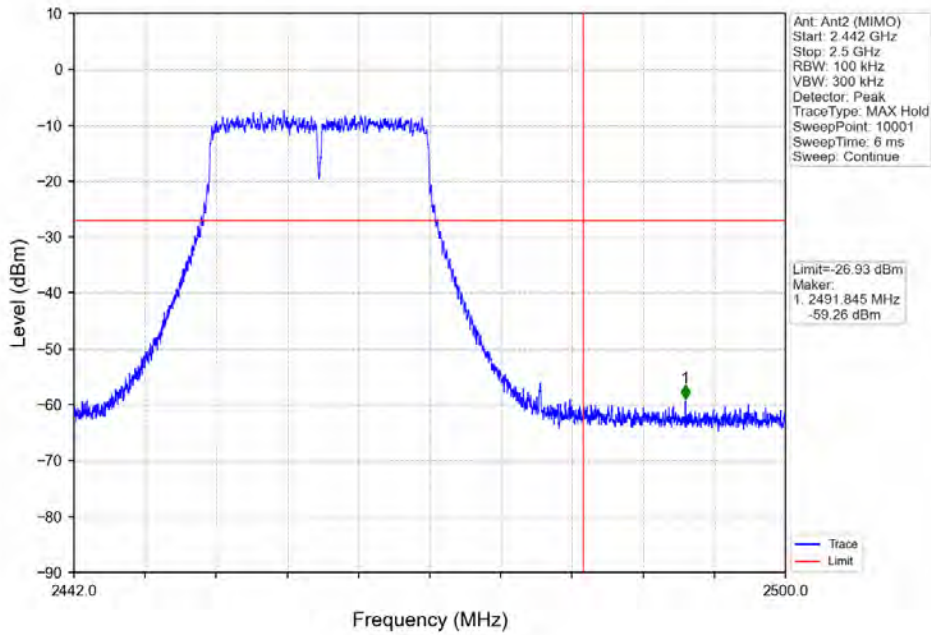
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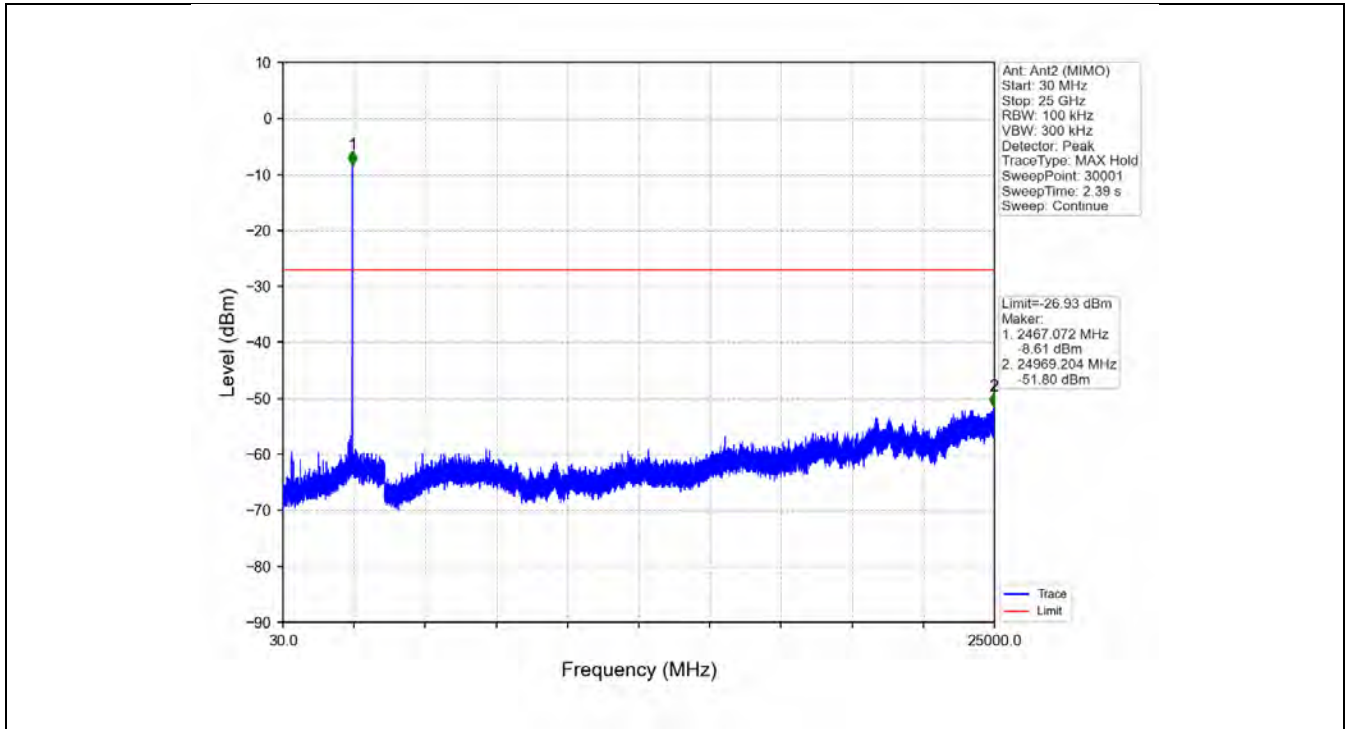


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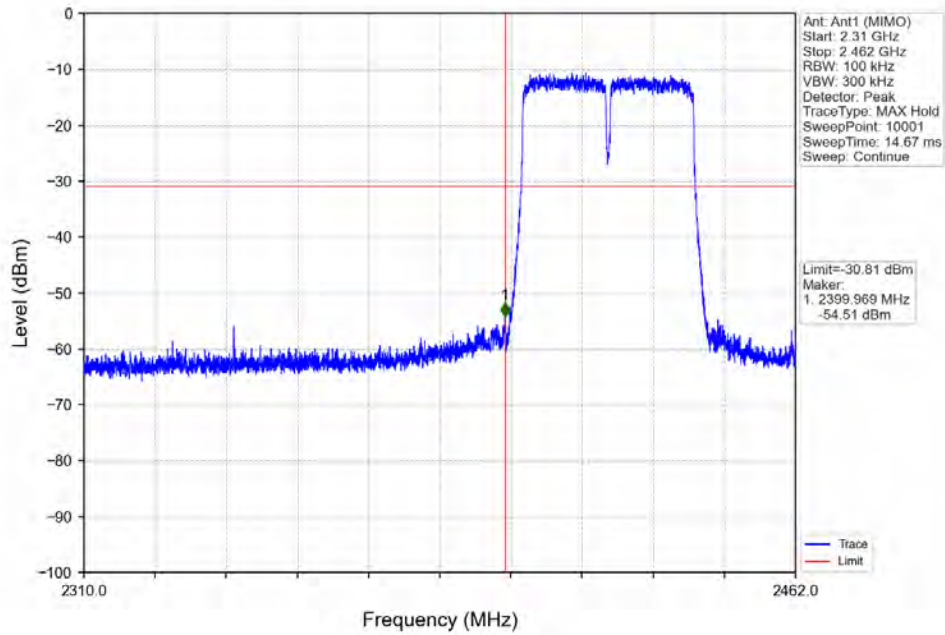
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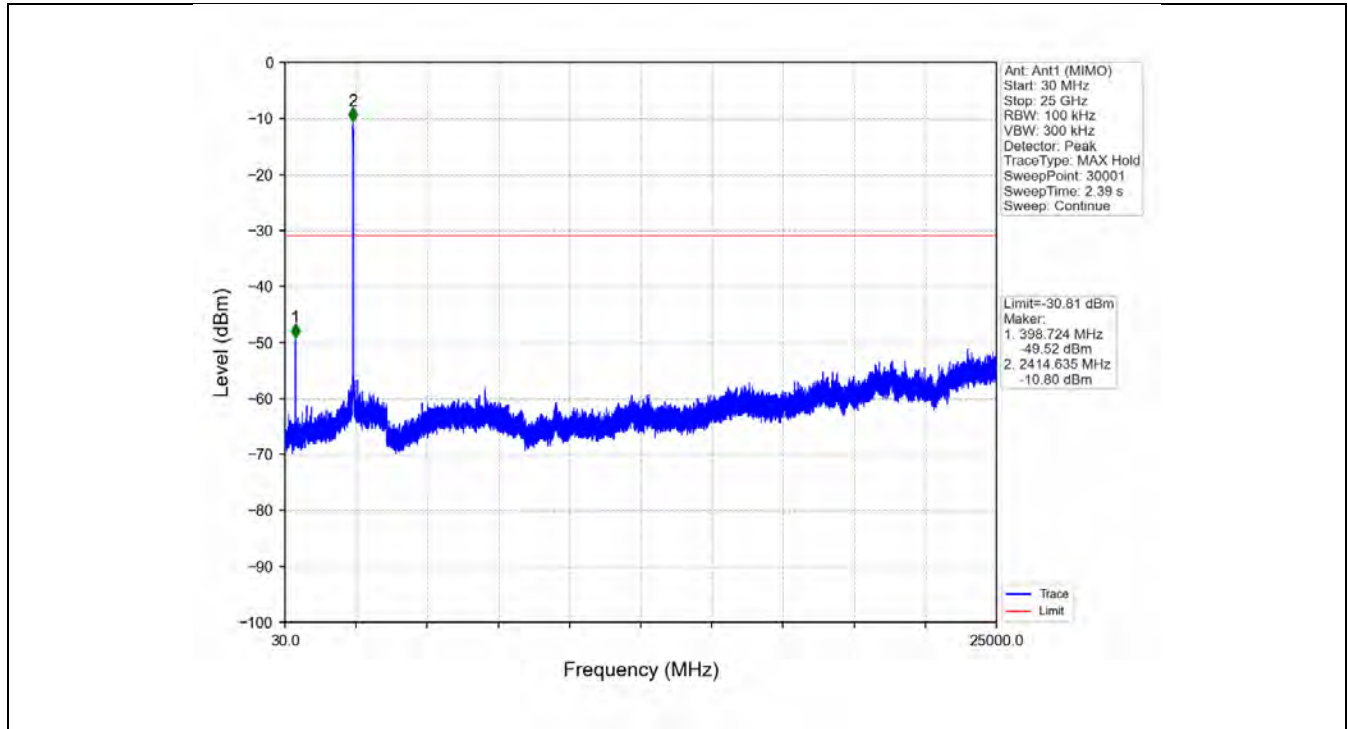


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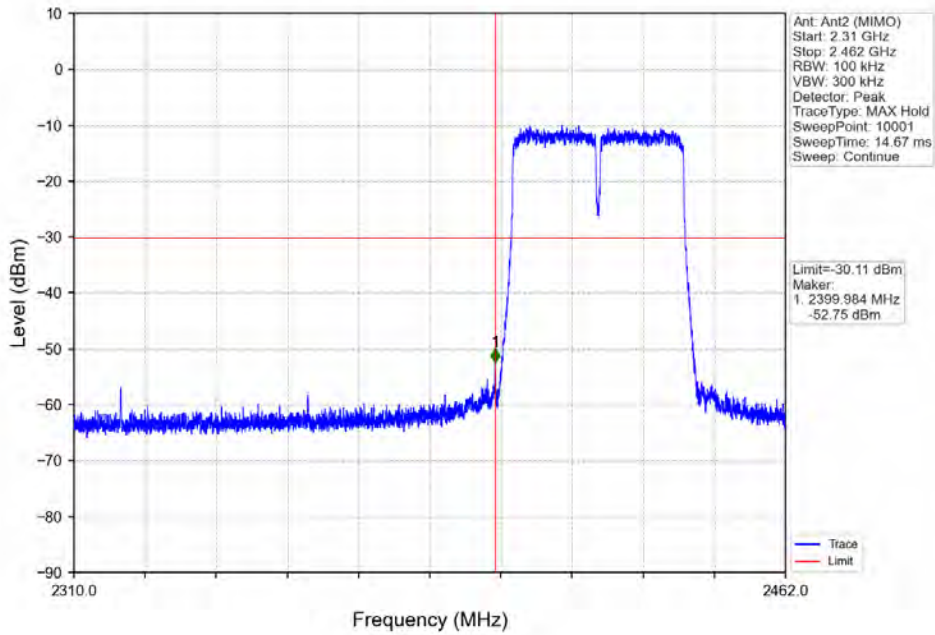
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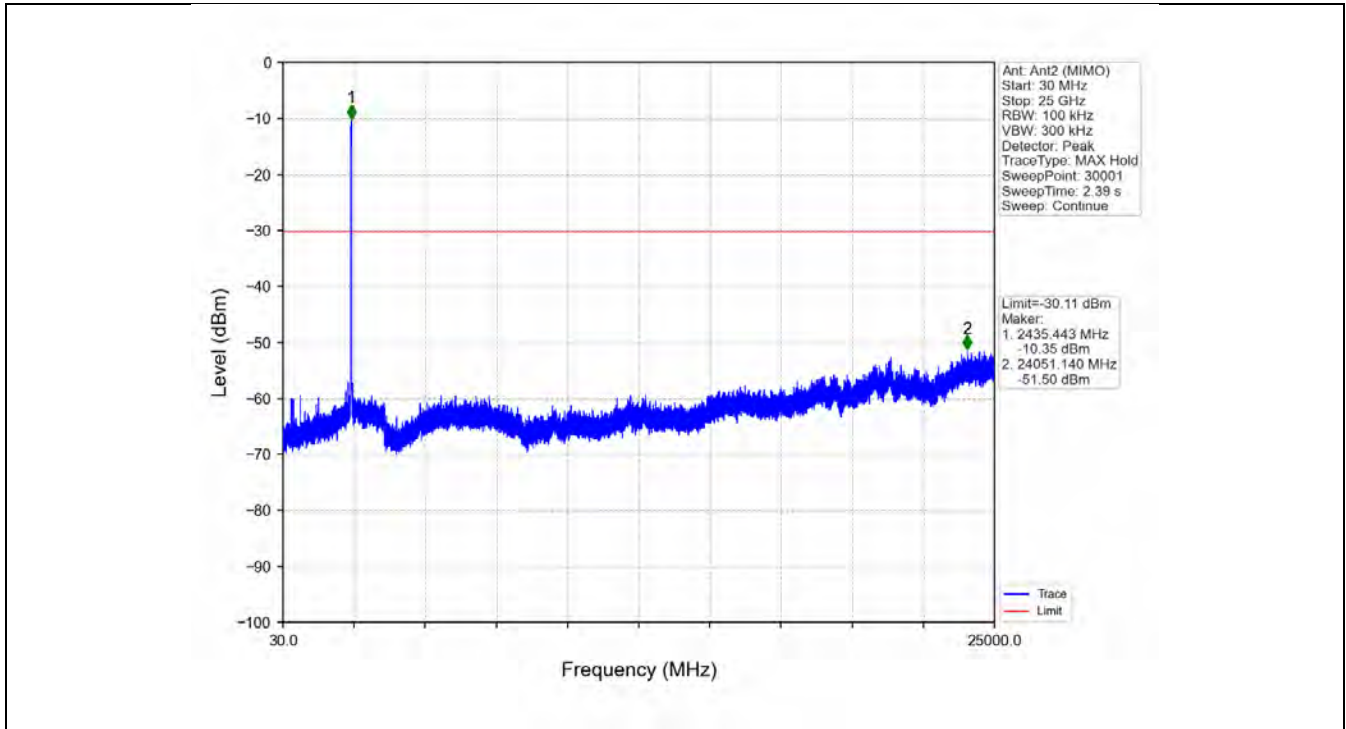
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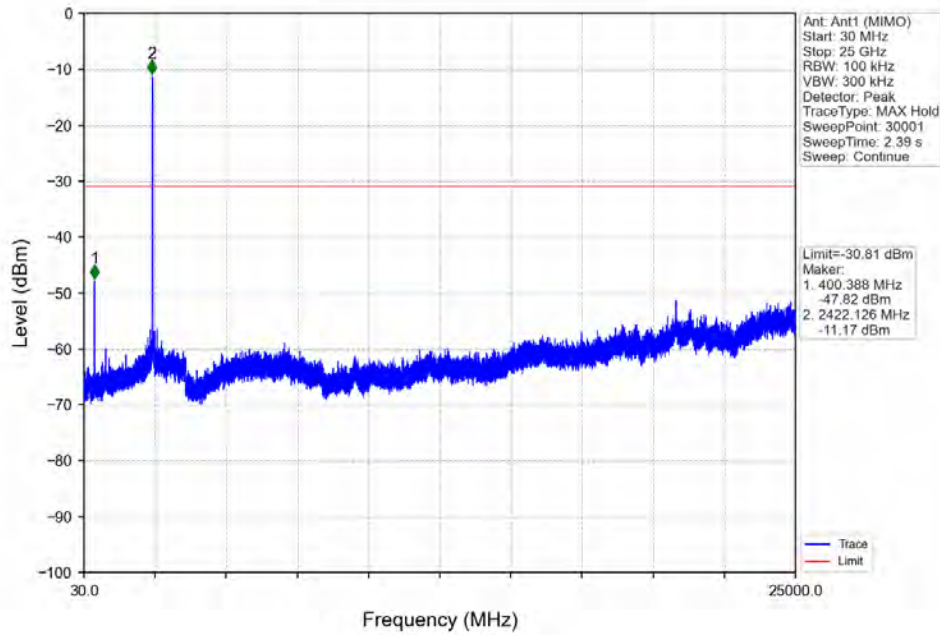
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



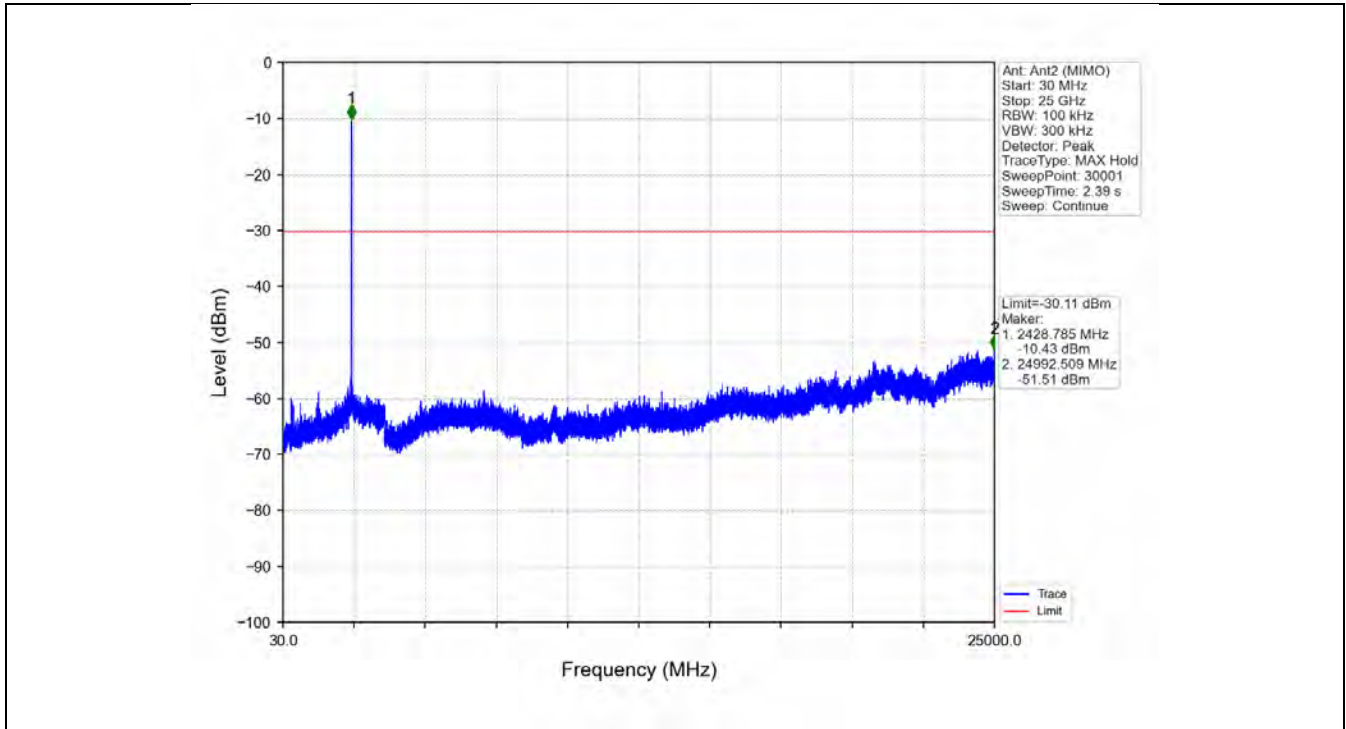
802.11n(HT40)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



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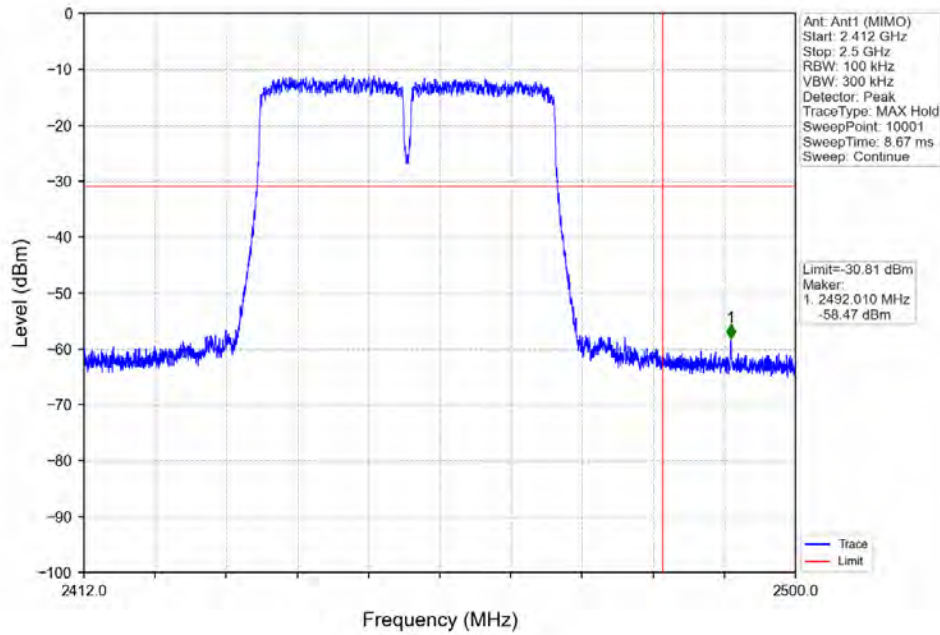
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (MIMO)\_NTNV



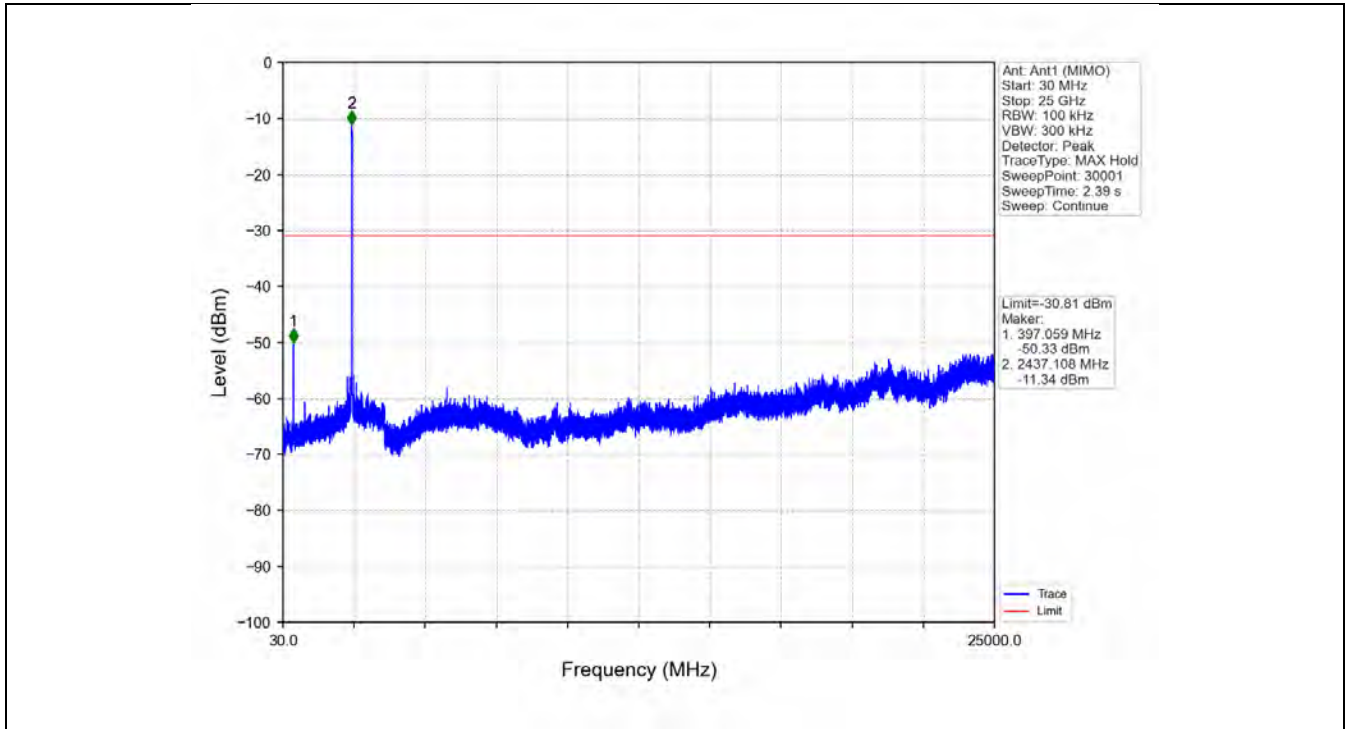
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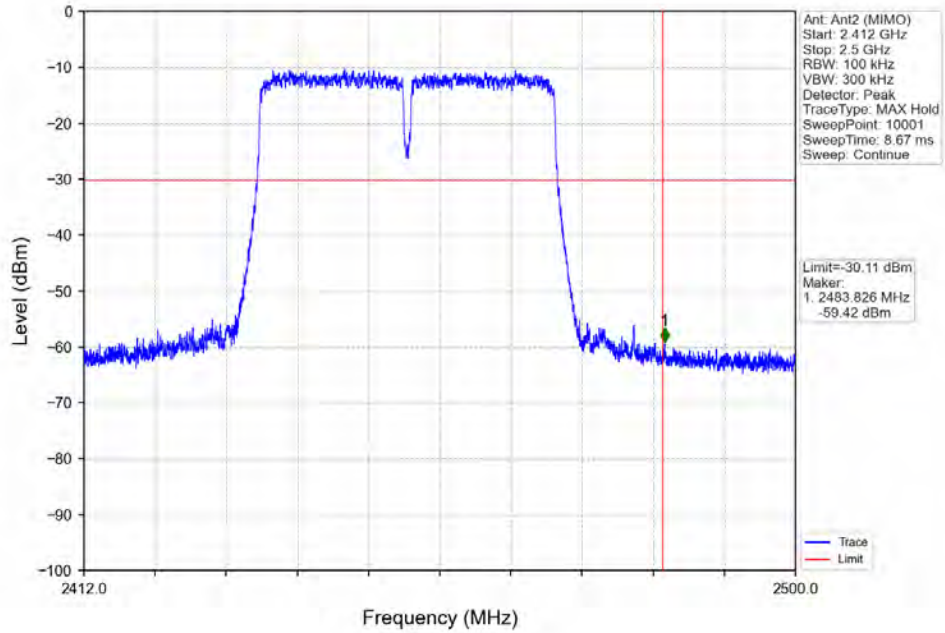
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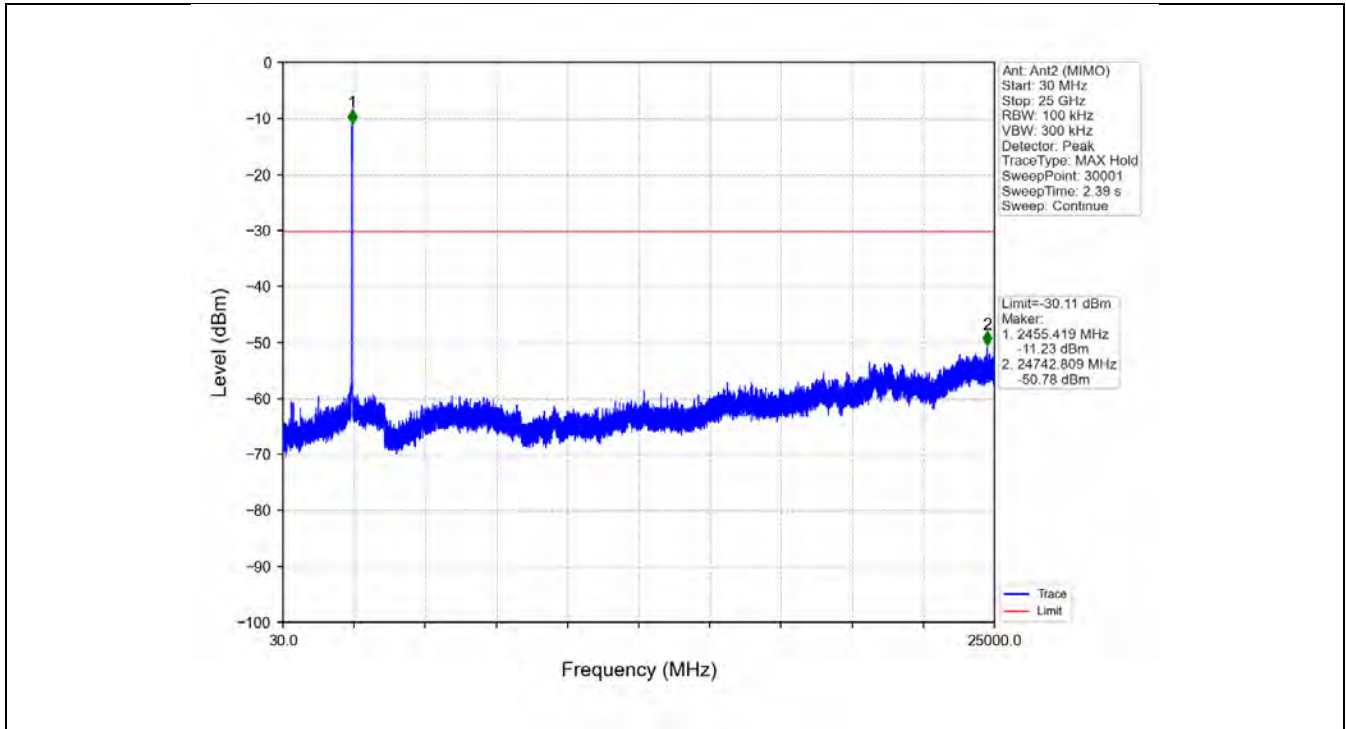
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