

Appendix A for SHEM210800866201

1. Duty Cycle

1.1 Ant1

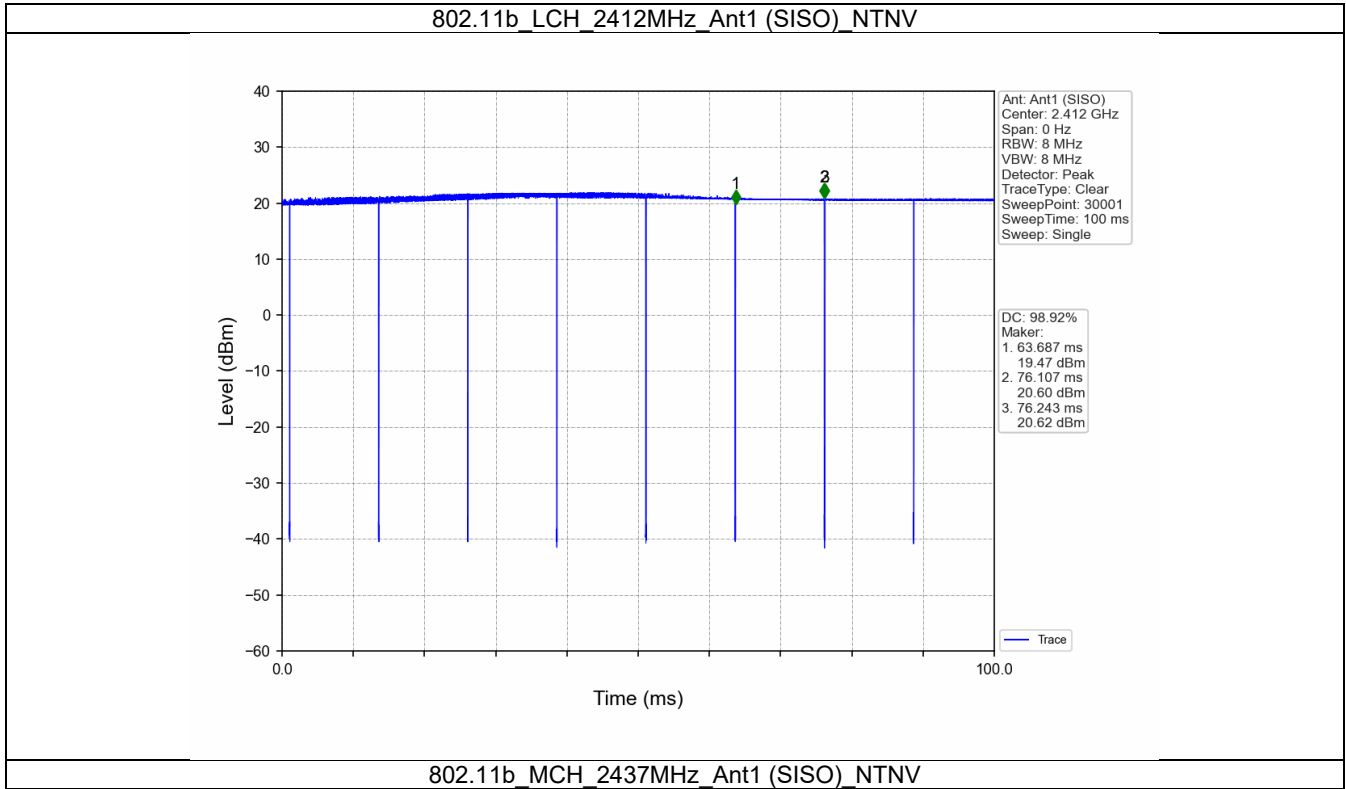
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Ton (mms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.420	12.556	98.92	0.05	0.50
		2437	12.410	12.590	98.57	0.06	0.84
		2462	12.416	12.590	98.62	0.06	0.95
802.11g	SISO	2412	2.063	2.234	92.35	0.35	5.53
		2437	2.062	2.225	92.67	0.33	3.49
		2462	2.063	2.234	92.35	0.35	5.91
802.11n (HT20)	MIMO	2412	1.919	2.073	92.57	0.34	5.60
		2437	1.917	2.054	93.33	0.30	3.85
		2462	1.920	2.073	92.62	0.33	5.56
802.11n (HT40)	MIMO	2422	0.938	1.104	84.96	0.71	4.36
		2437	0.941	1.114	84.47	0.73	8.24
		2452	0.942	1.105	85.25	0.69	11.00



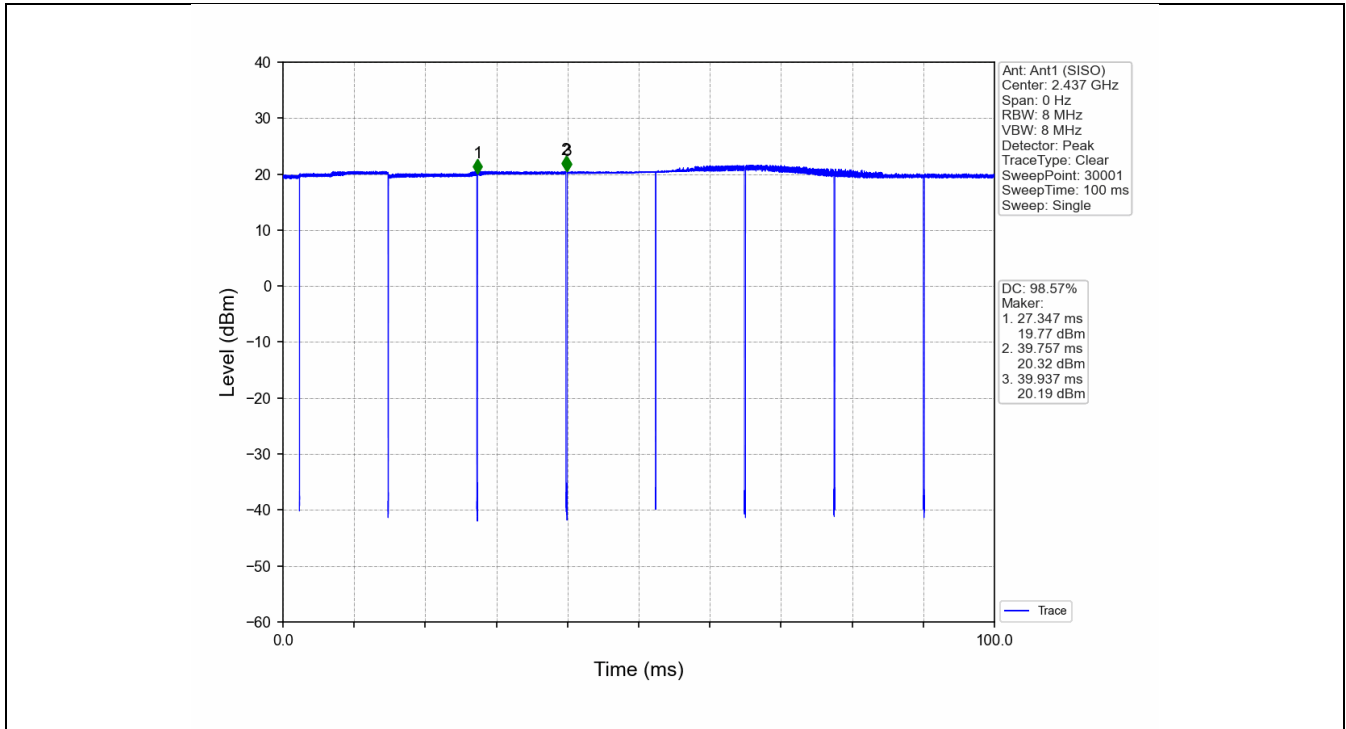
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1.1.2 Test Graph



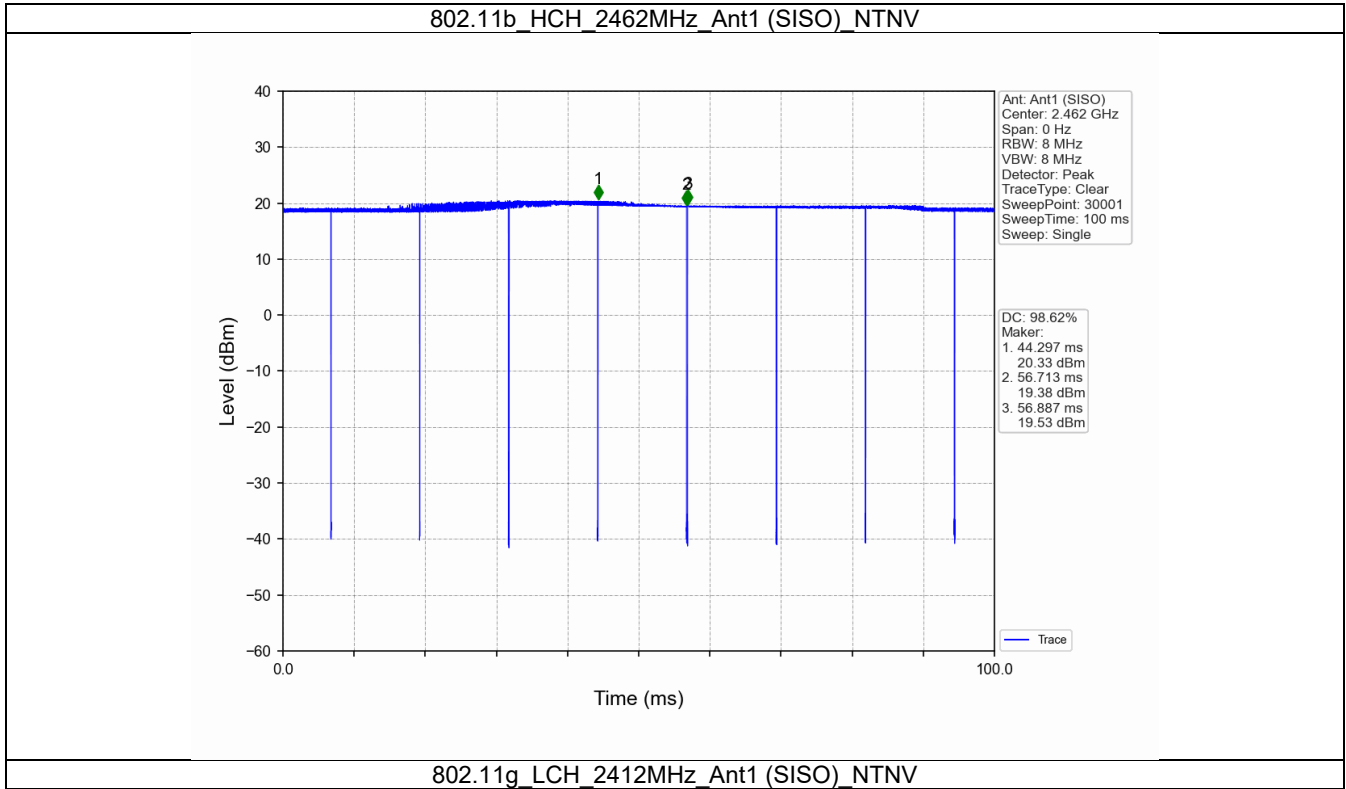
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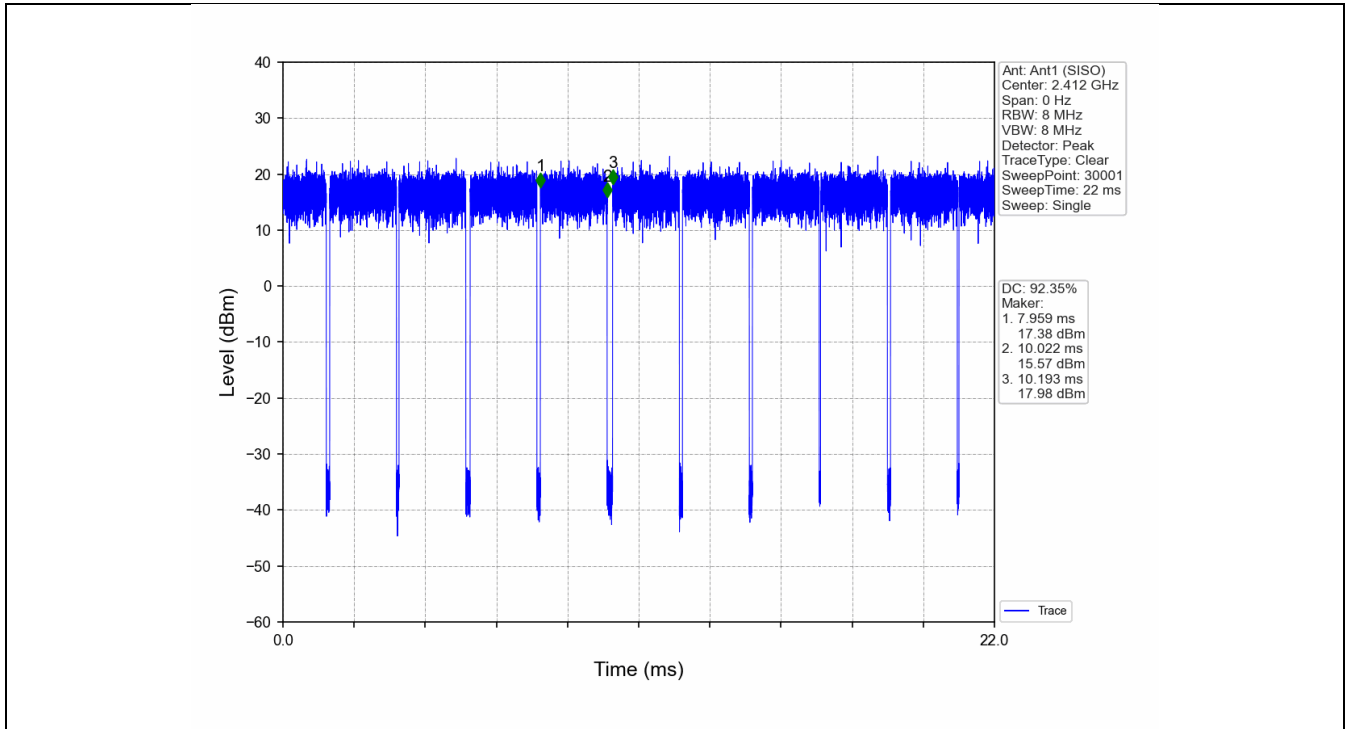
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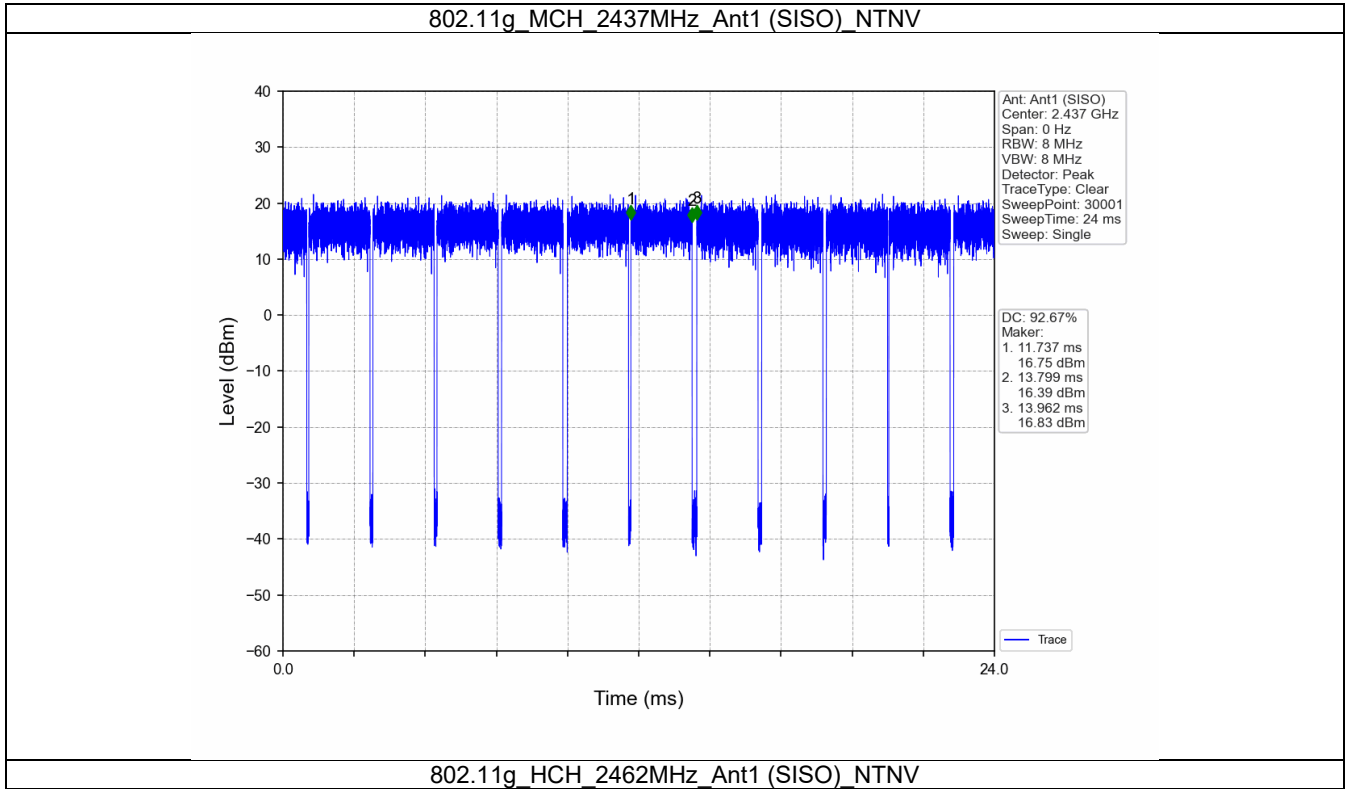
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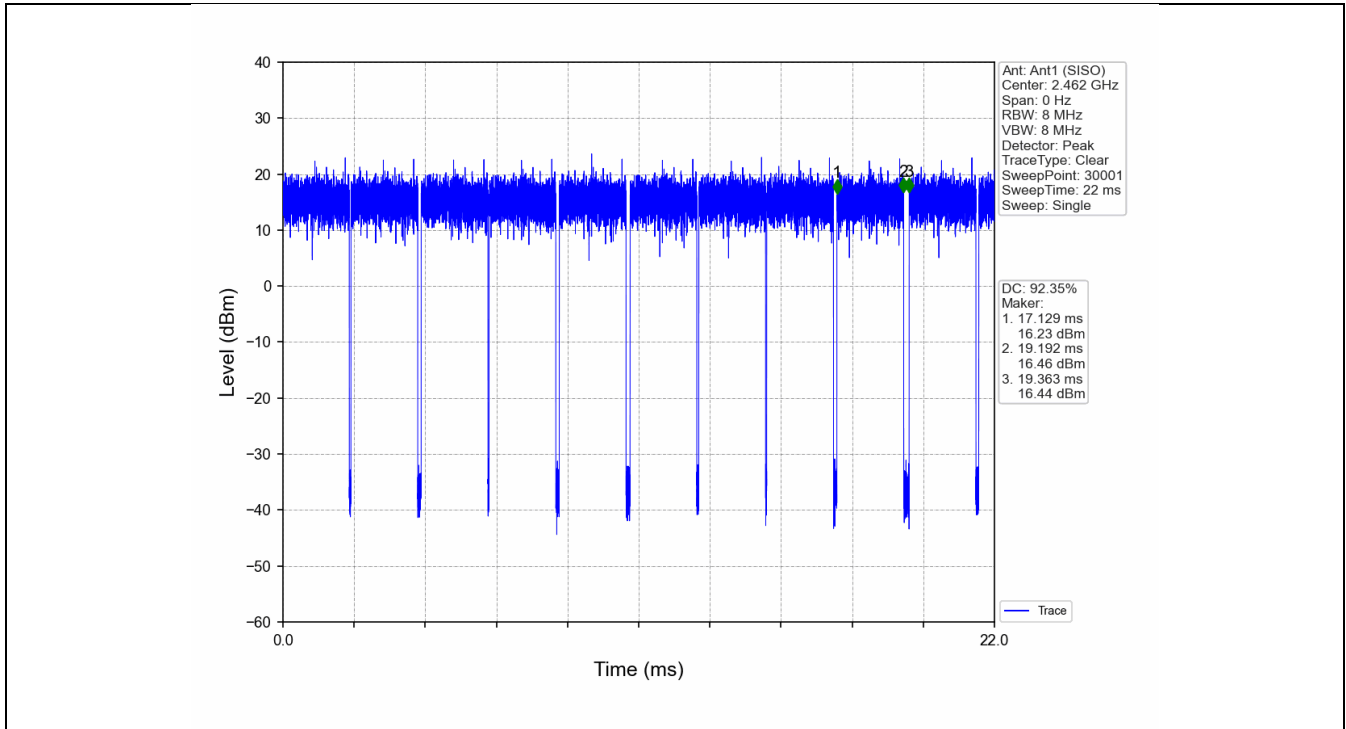
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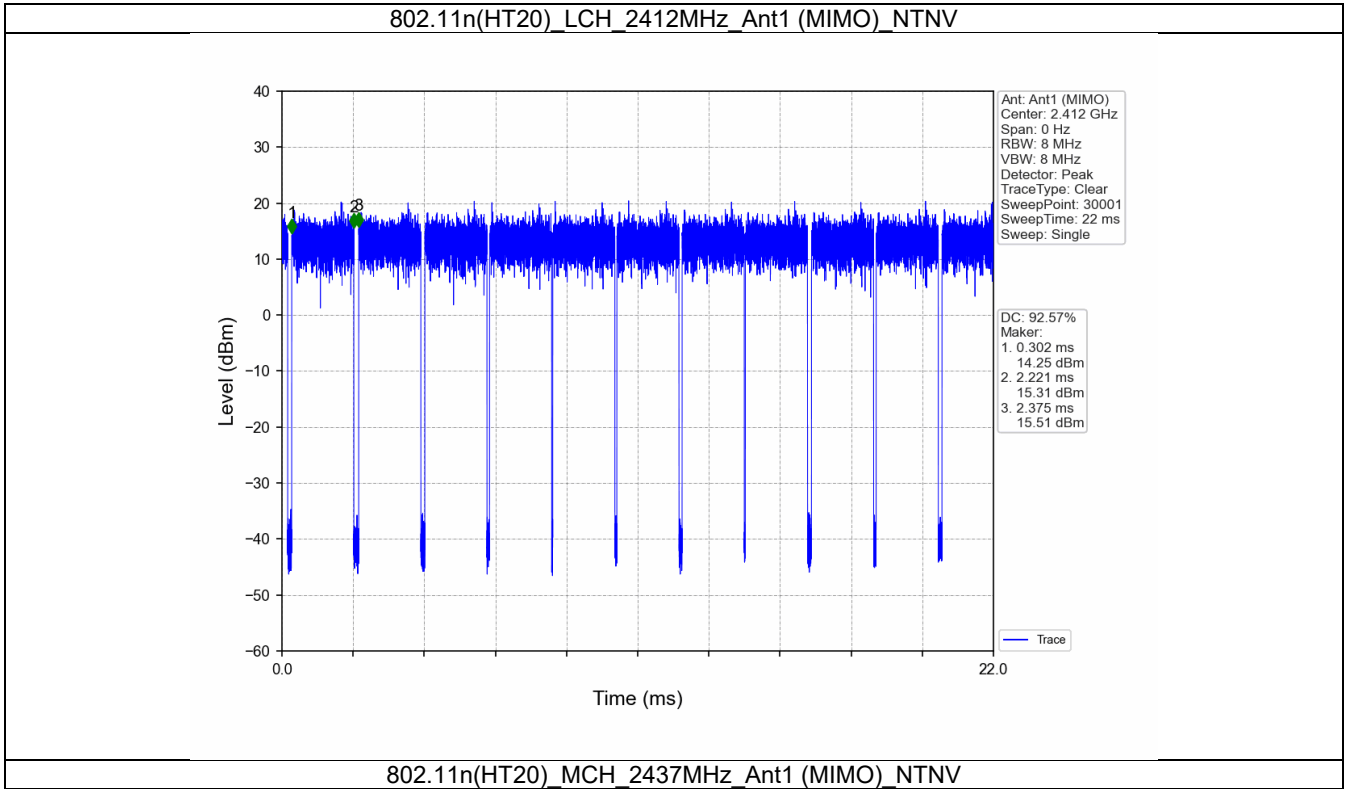
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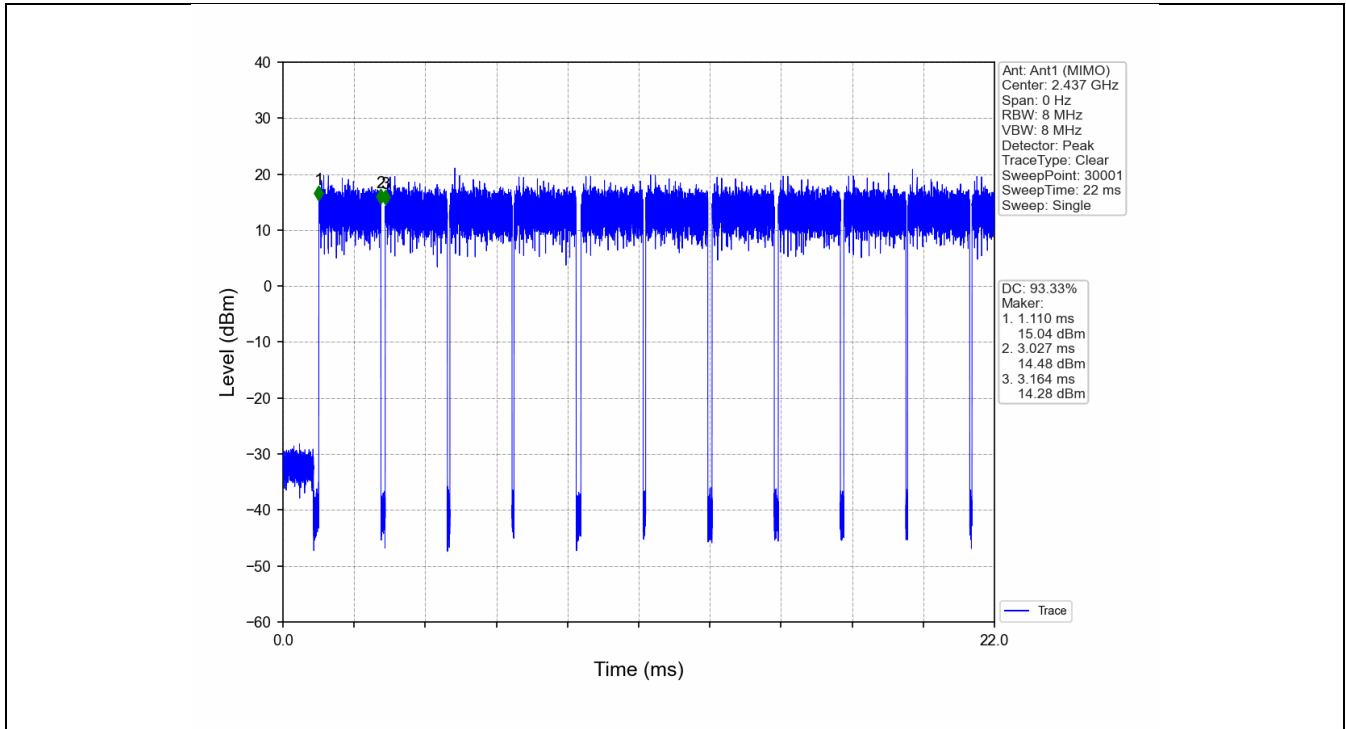
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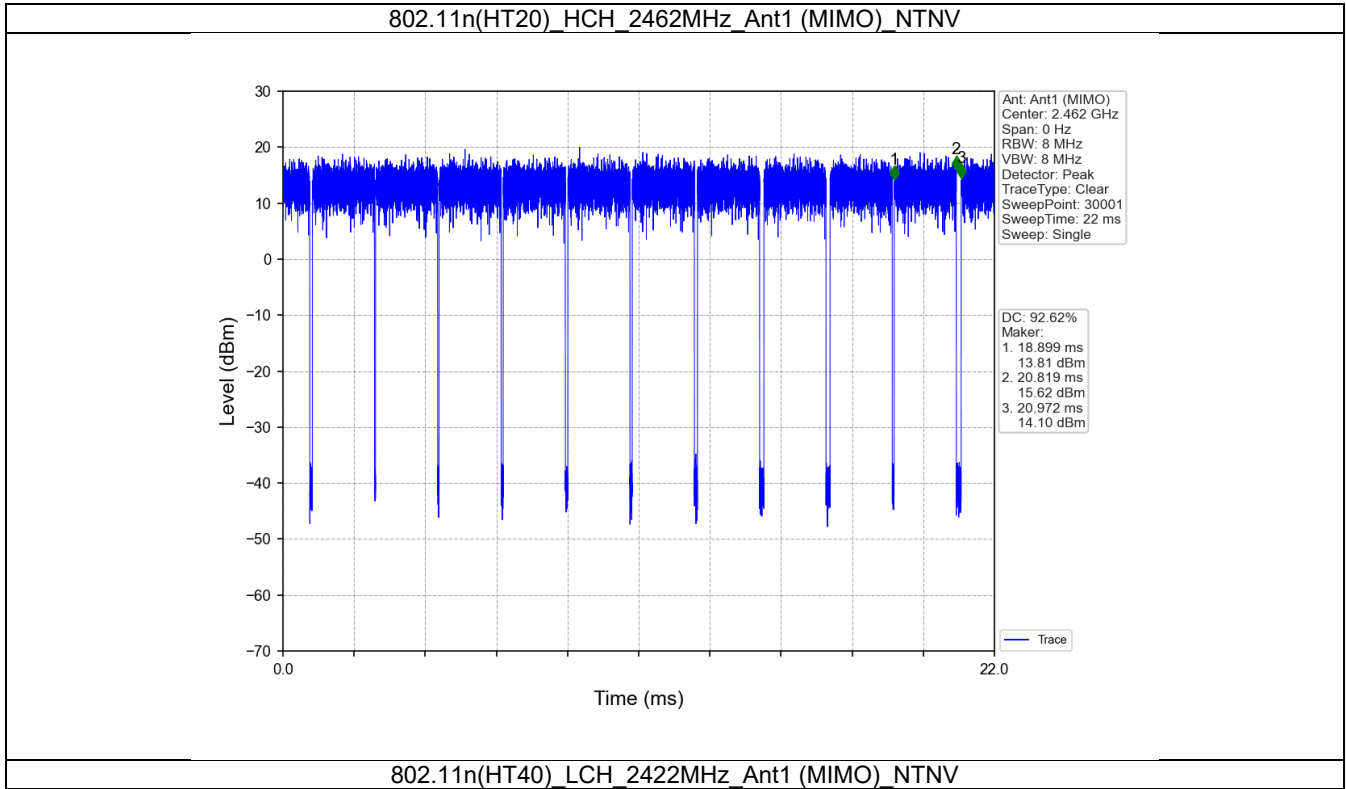
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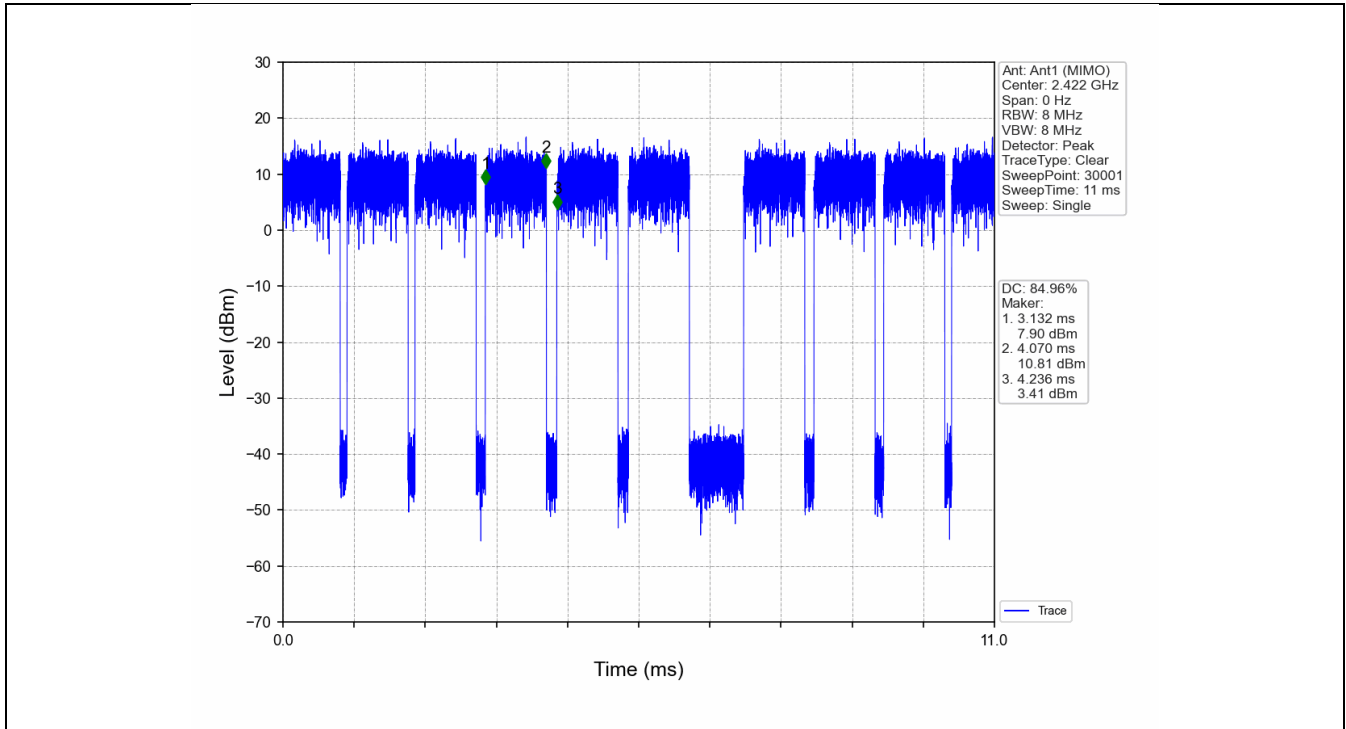
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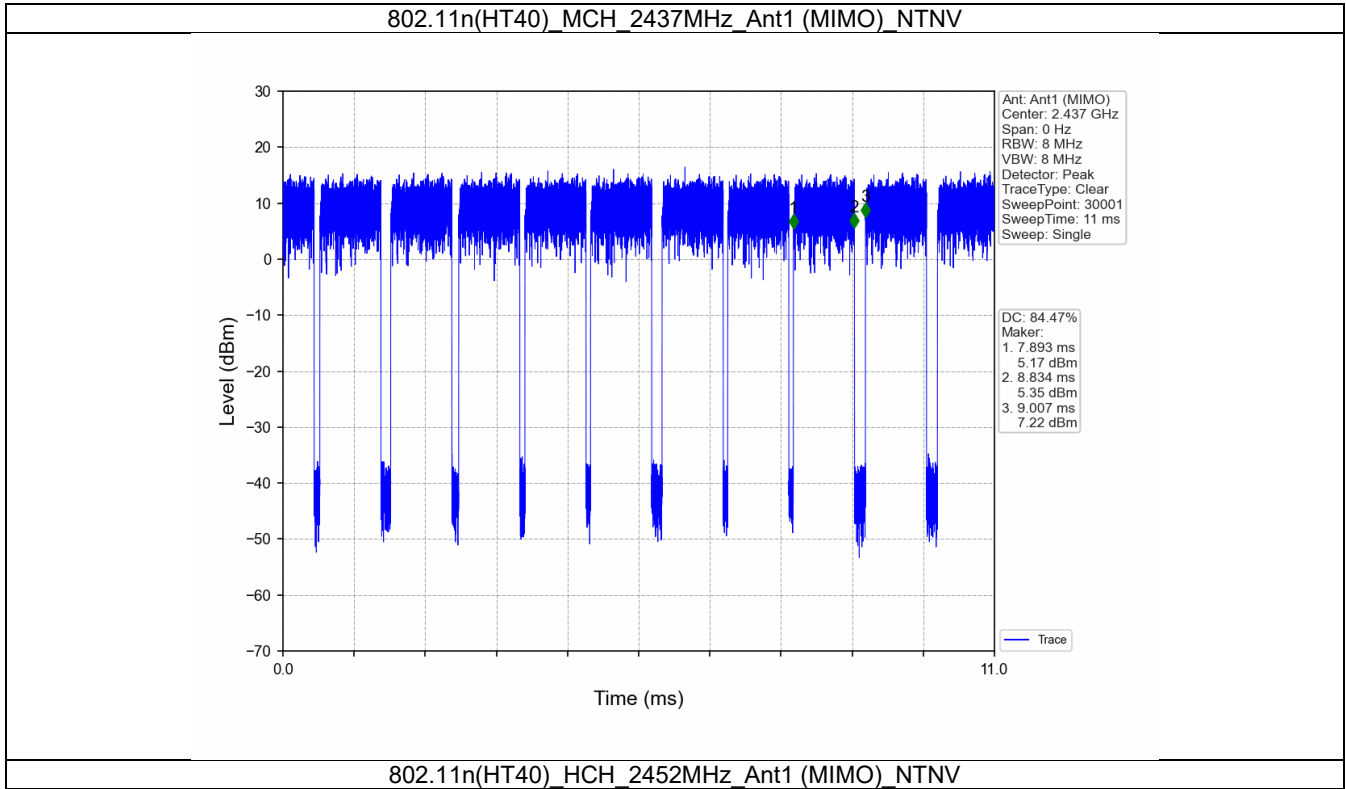
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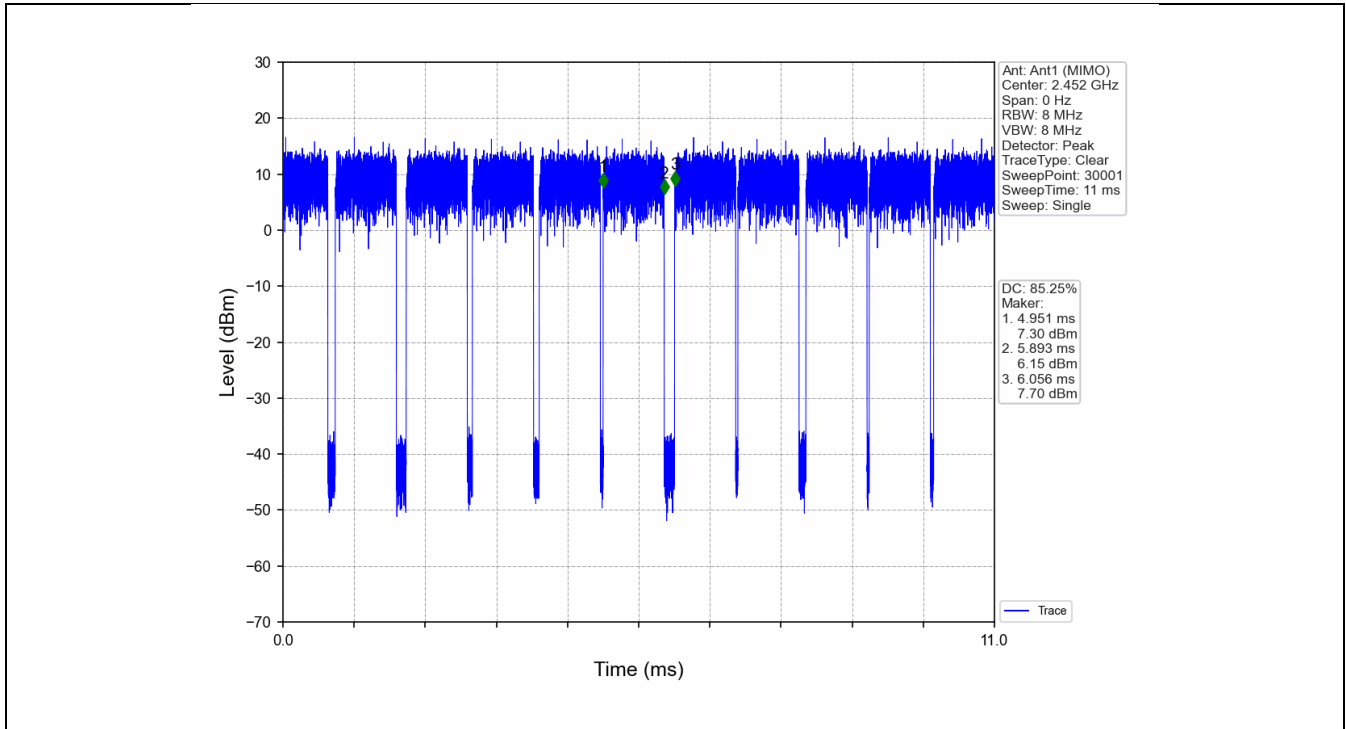
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## 2. Bandwidth

### 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	14.962	Pass
			2	15.141	Pass
		2437	1	14.966	Pass
			2	15.049	Pass
		2462	1	15.069	Pass
			2	15.085	Pass
802.11g	SISO	2412	1	17.849	Pass
			2	17.575	Pass
		2437	1	17.573	Pass
			2	17.701	Pass
		2462	1	17.976	Pass
			2	17.811	Pass
802.11n (HT20)	MIMO	2412	1	18.522	Pass
			2	18.491	Pass
		2437	1	18.557	Pass
			2	18.657	Pass
		2462	1	18.708	Pass
			2	18.352	Pass
802.11n (HT40)	MIMO	2422	1	36.029	Pass
			2	36.009	Pass
		2437	1	36.045	Pass
			2	36.078	Pass
		2452	1	36.107	Pass
			2	36.027	Pass

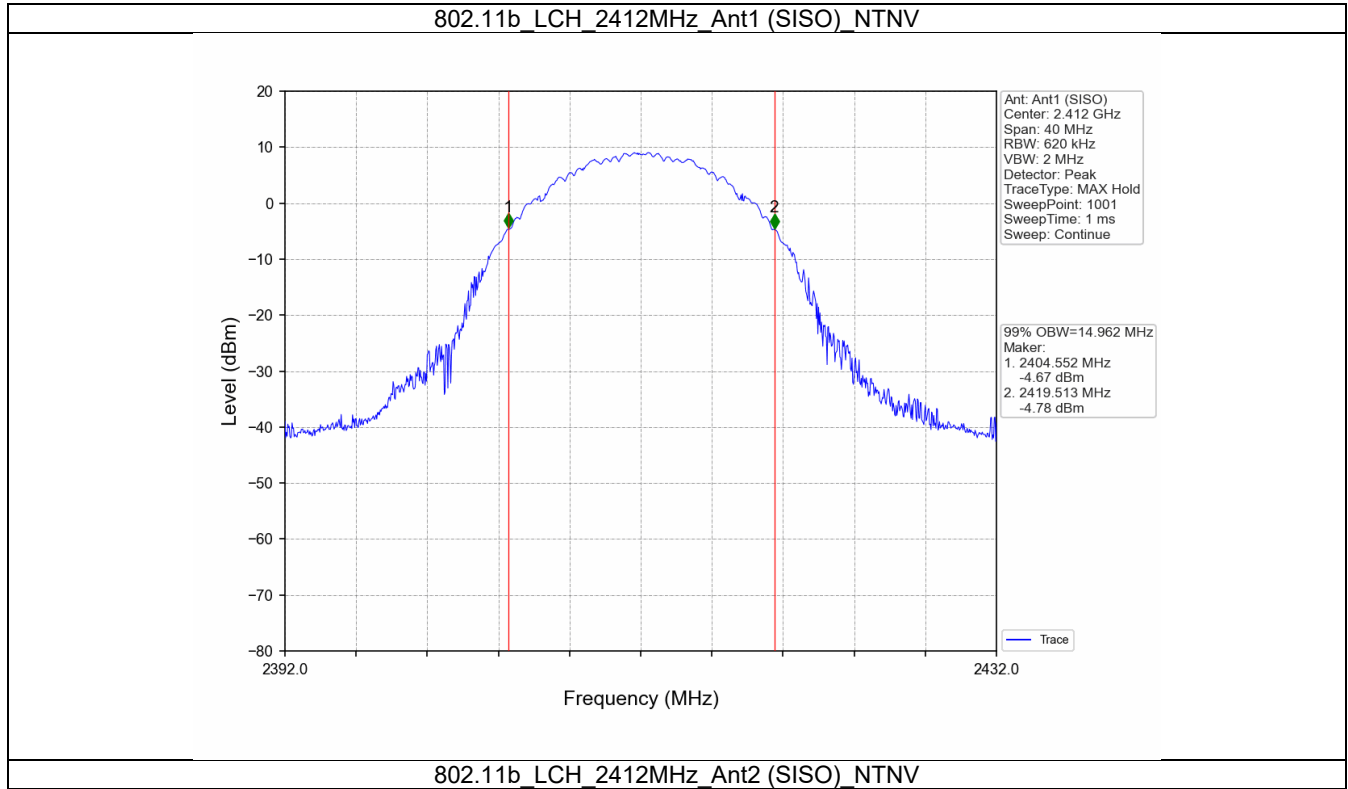


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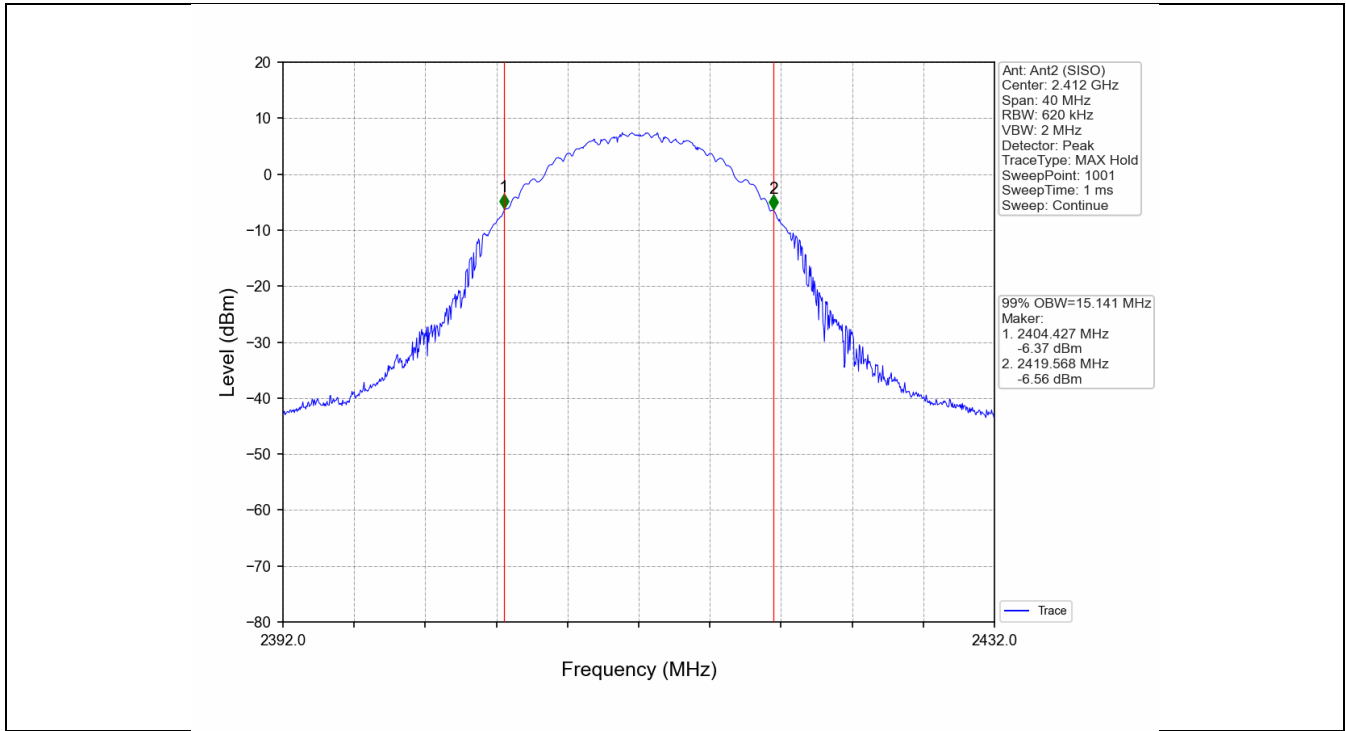


2.1.2 Test Graph



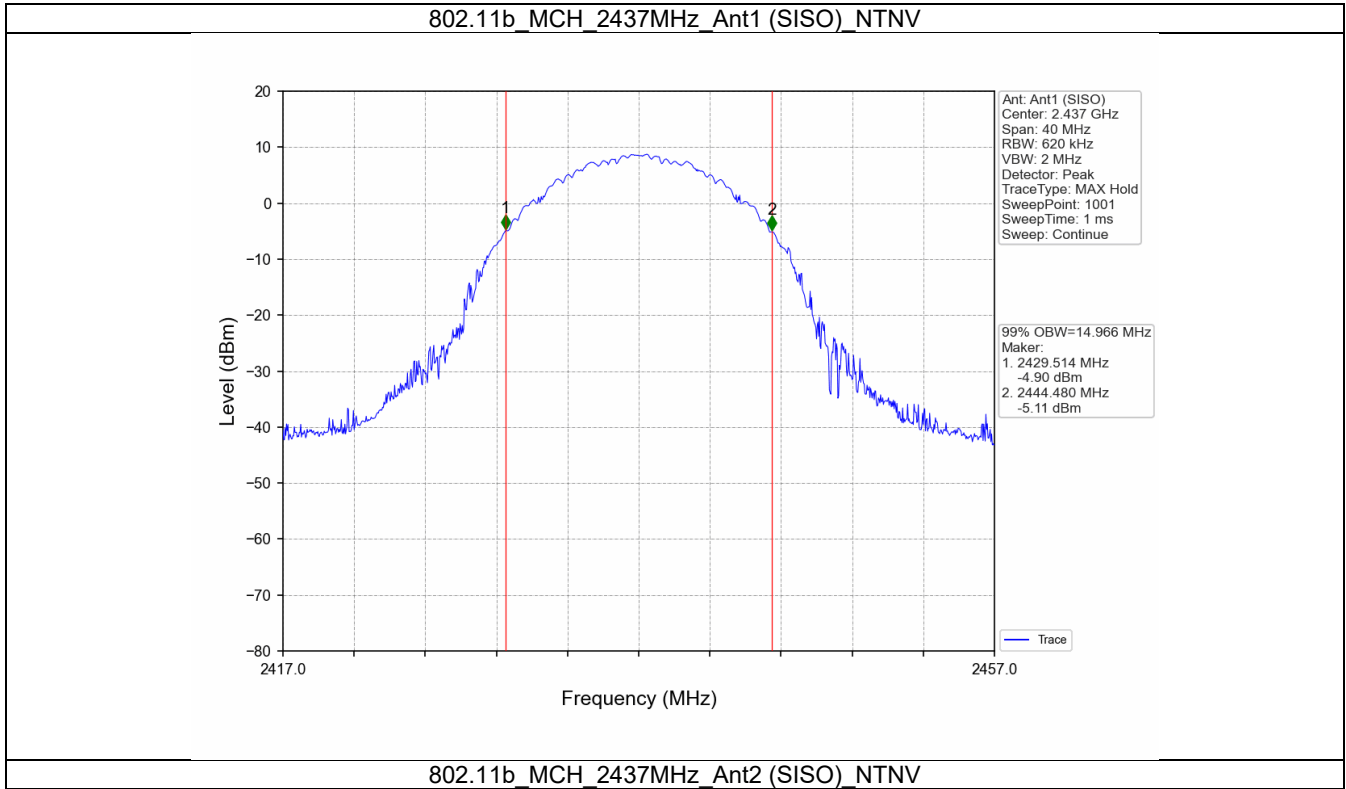
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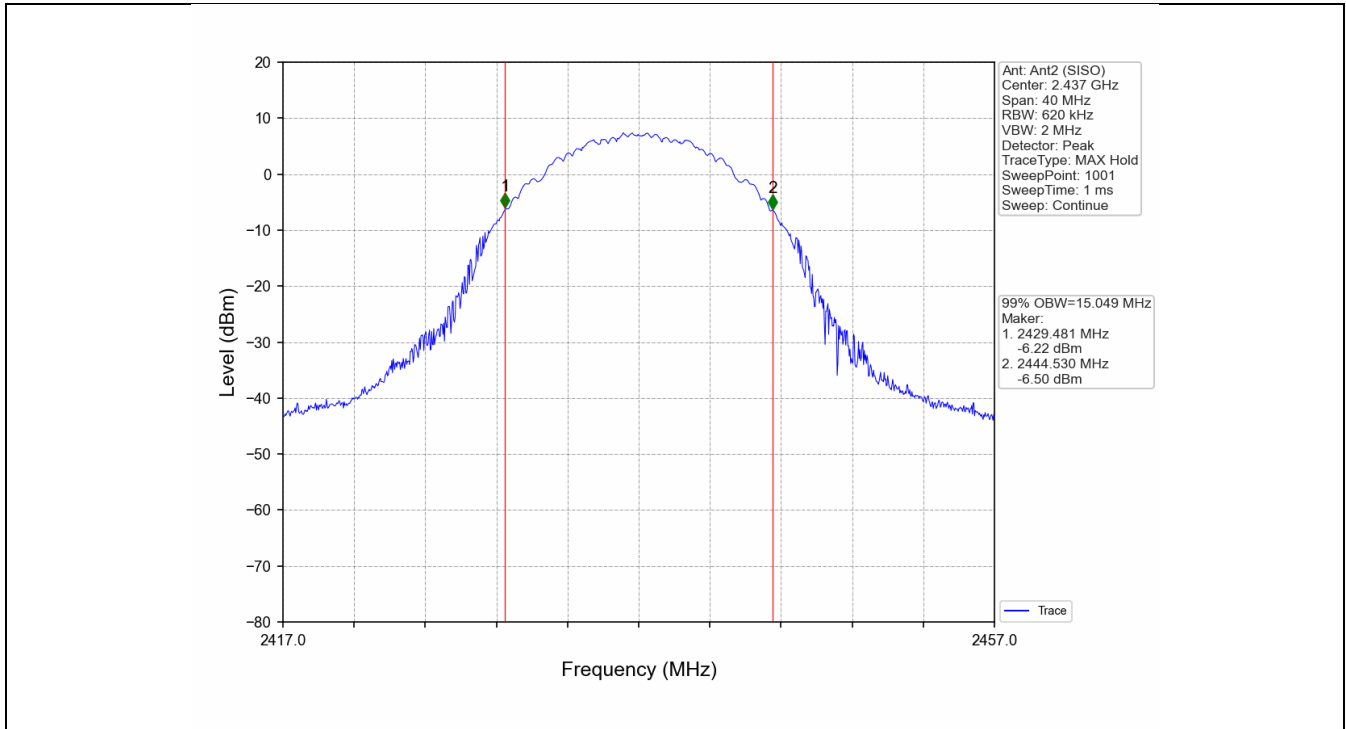
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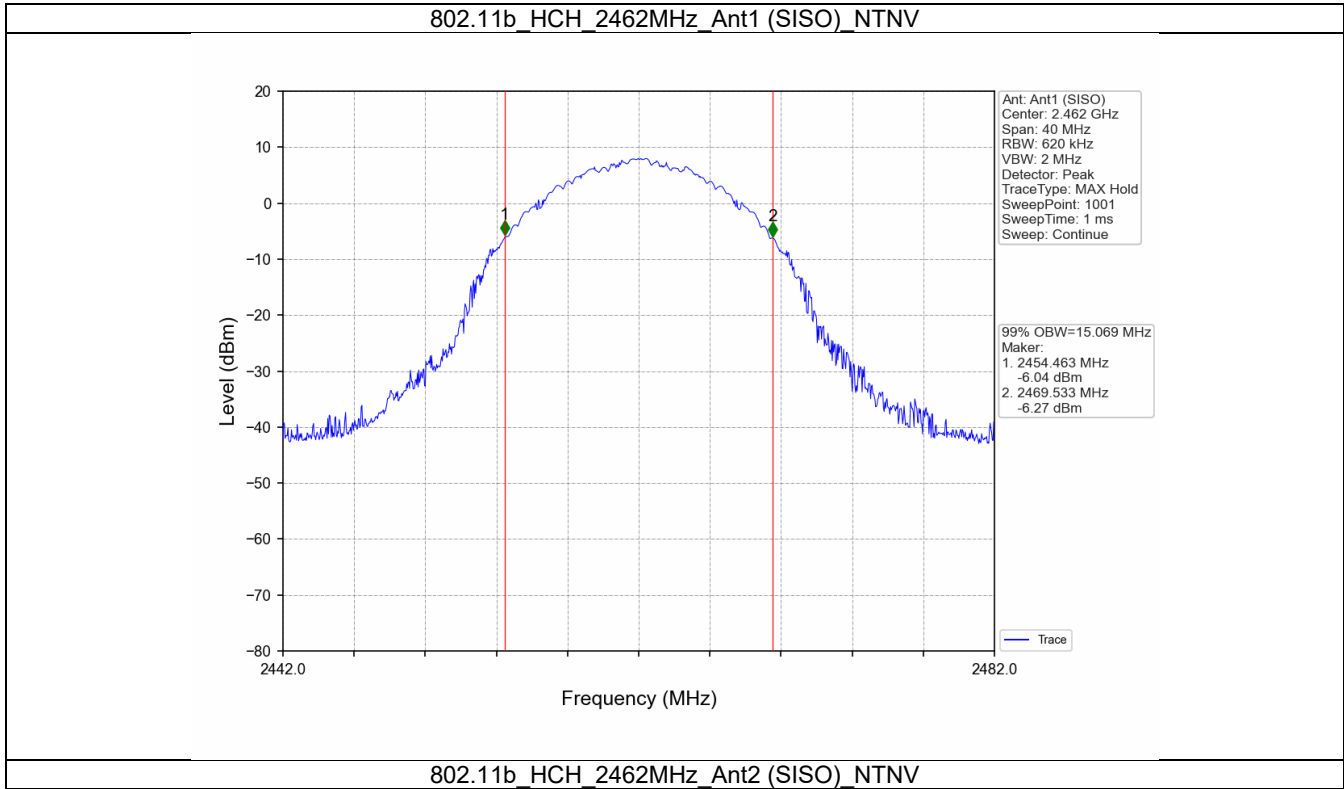
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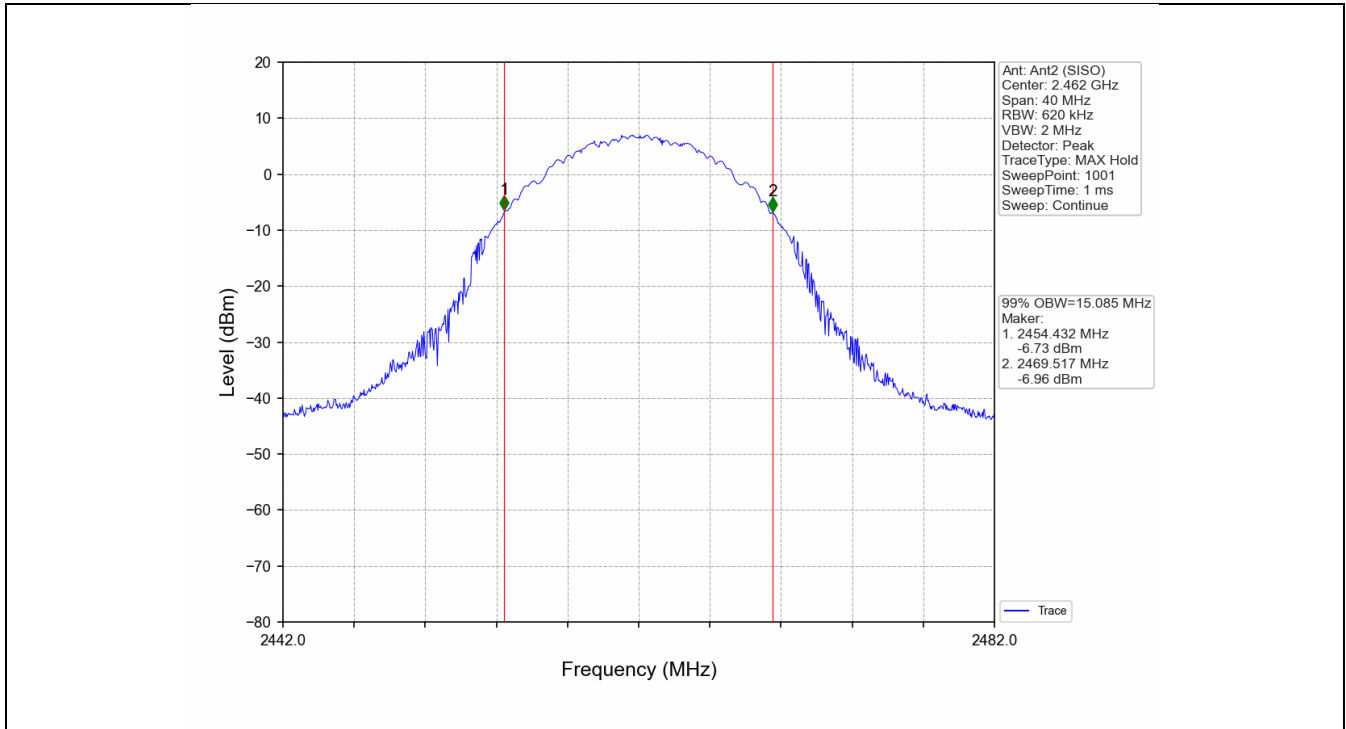
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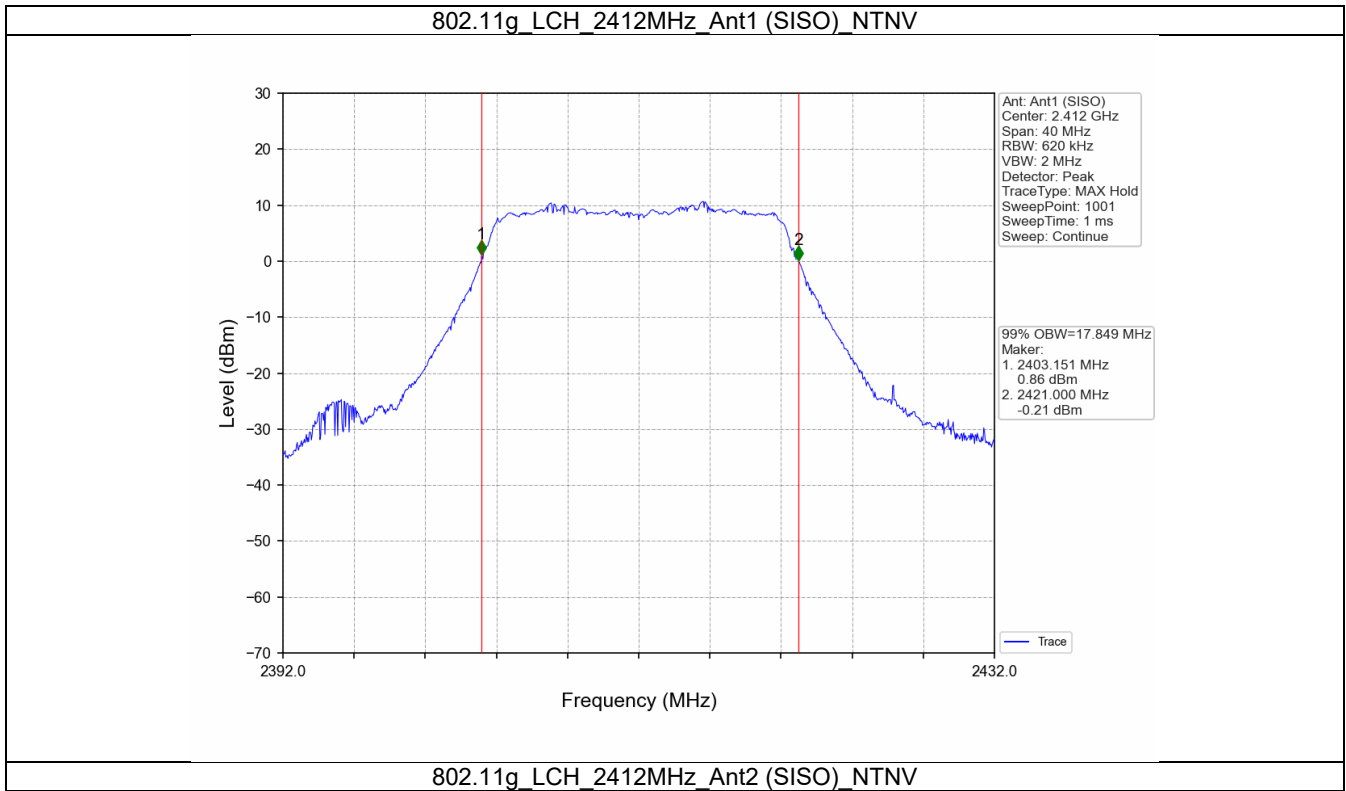
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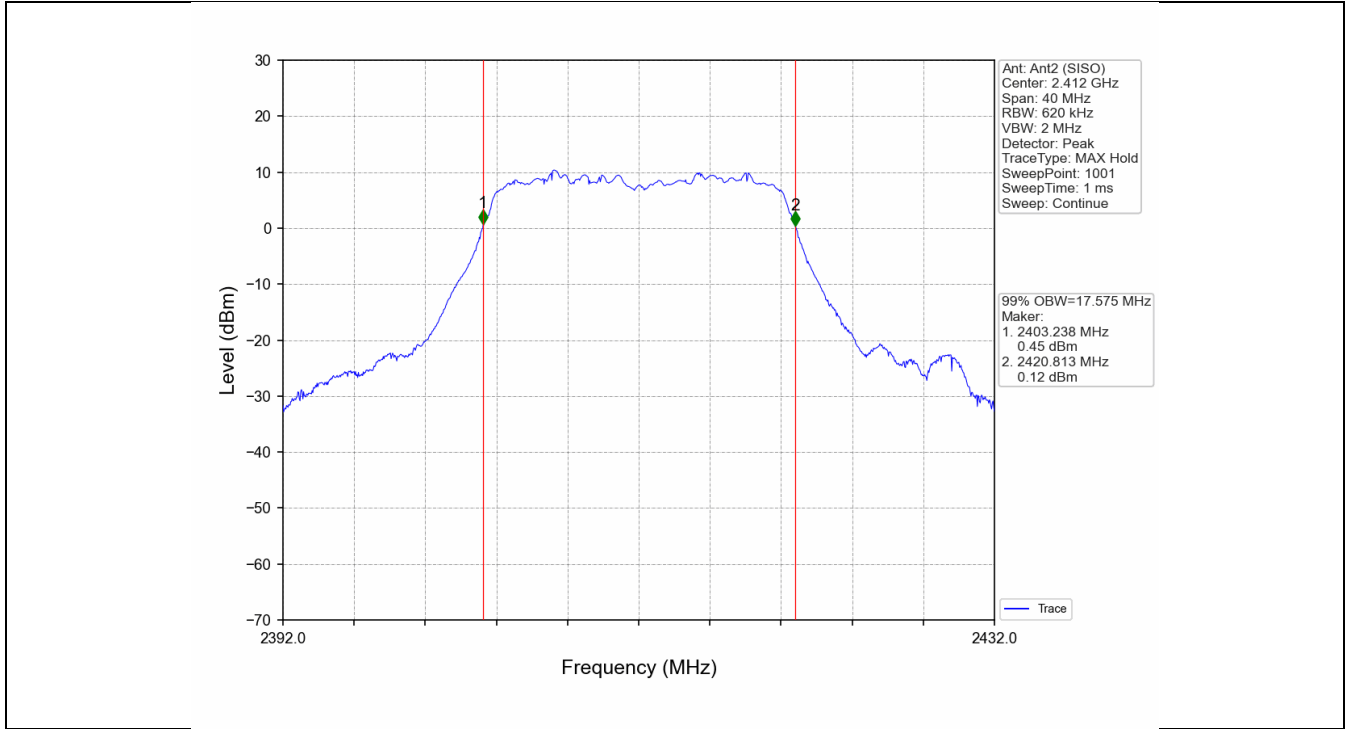
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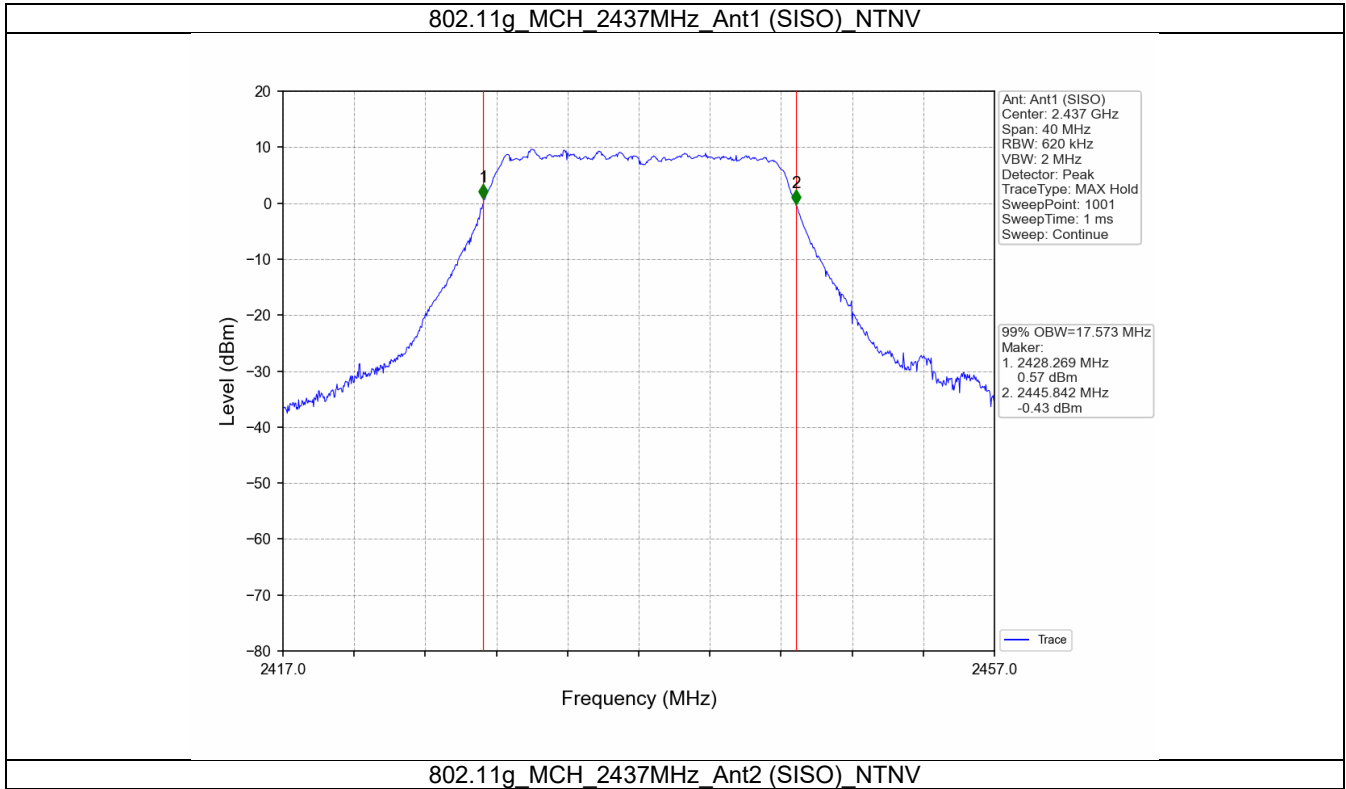
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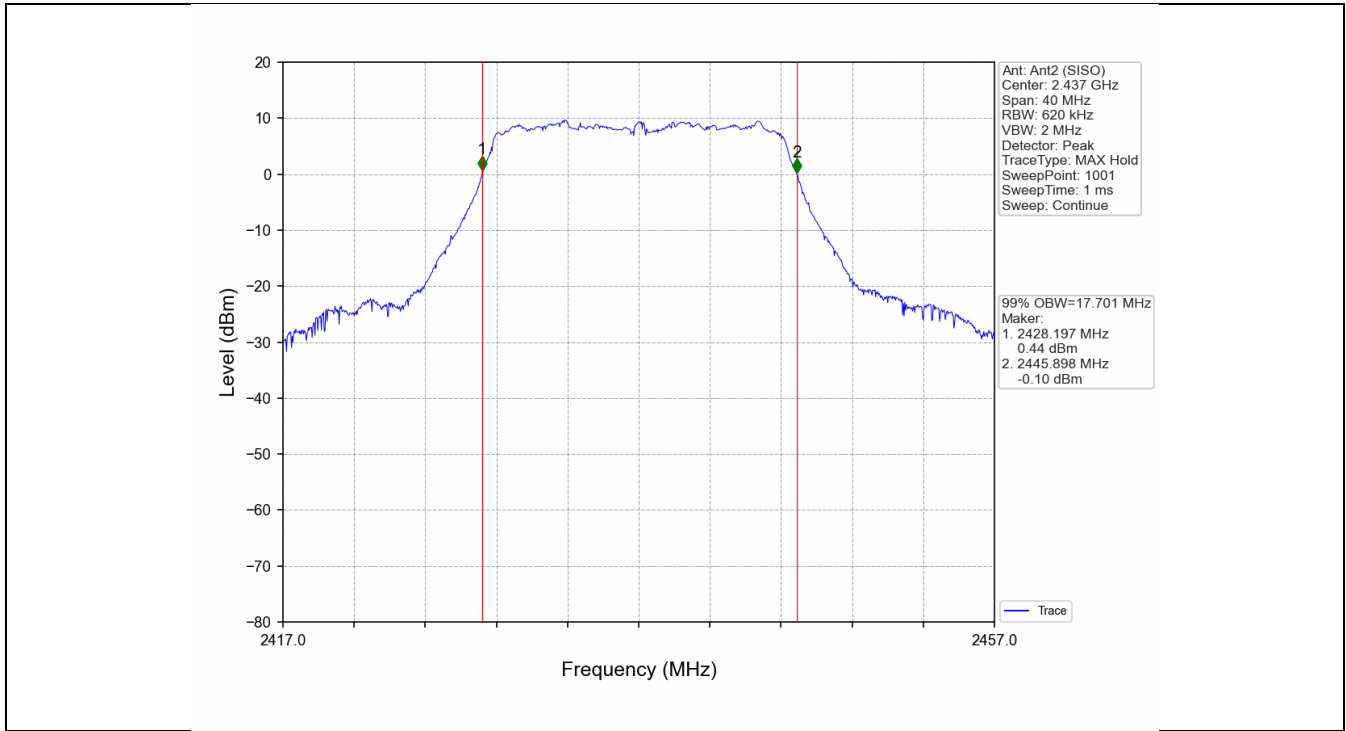
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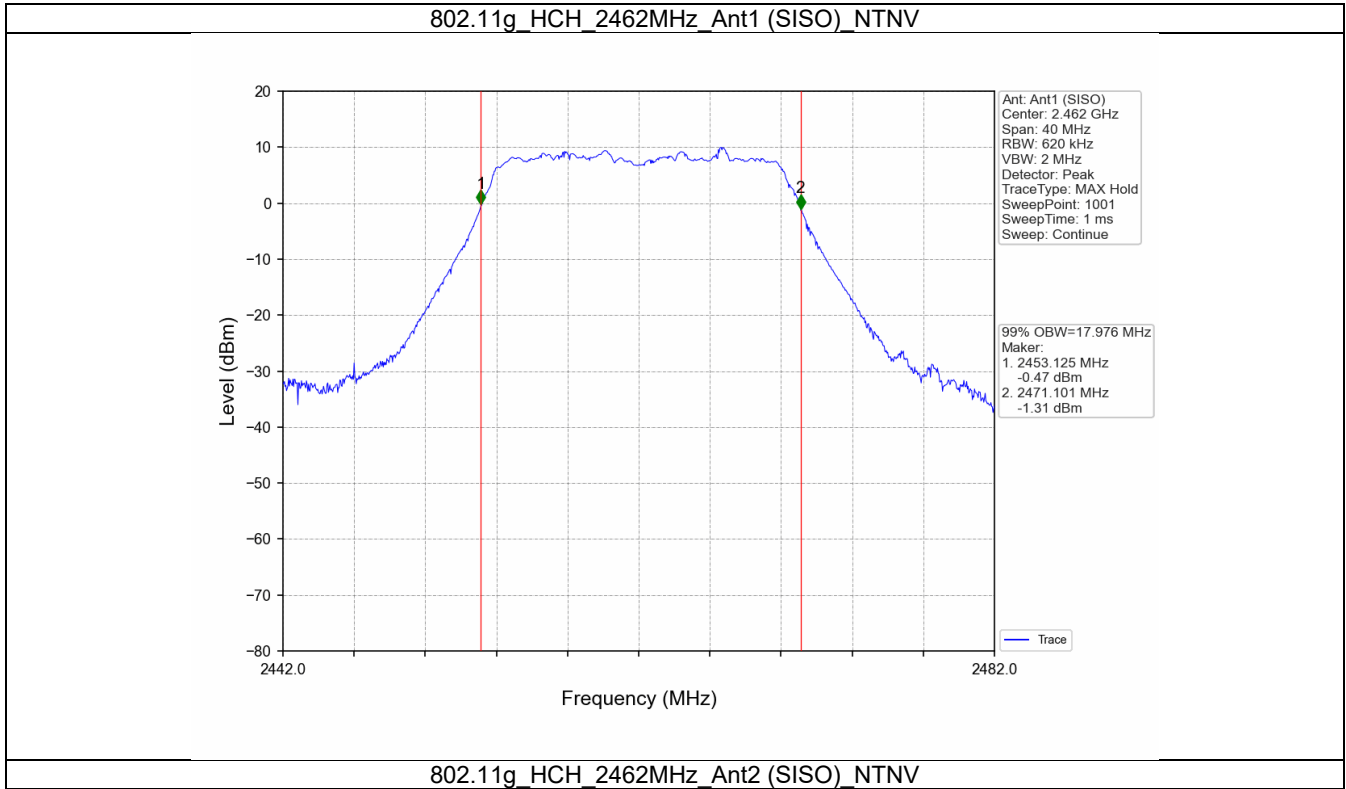
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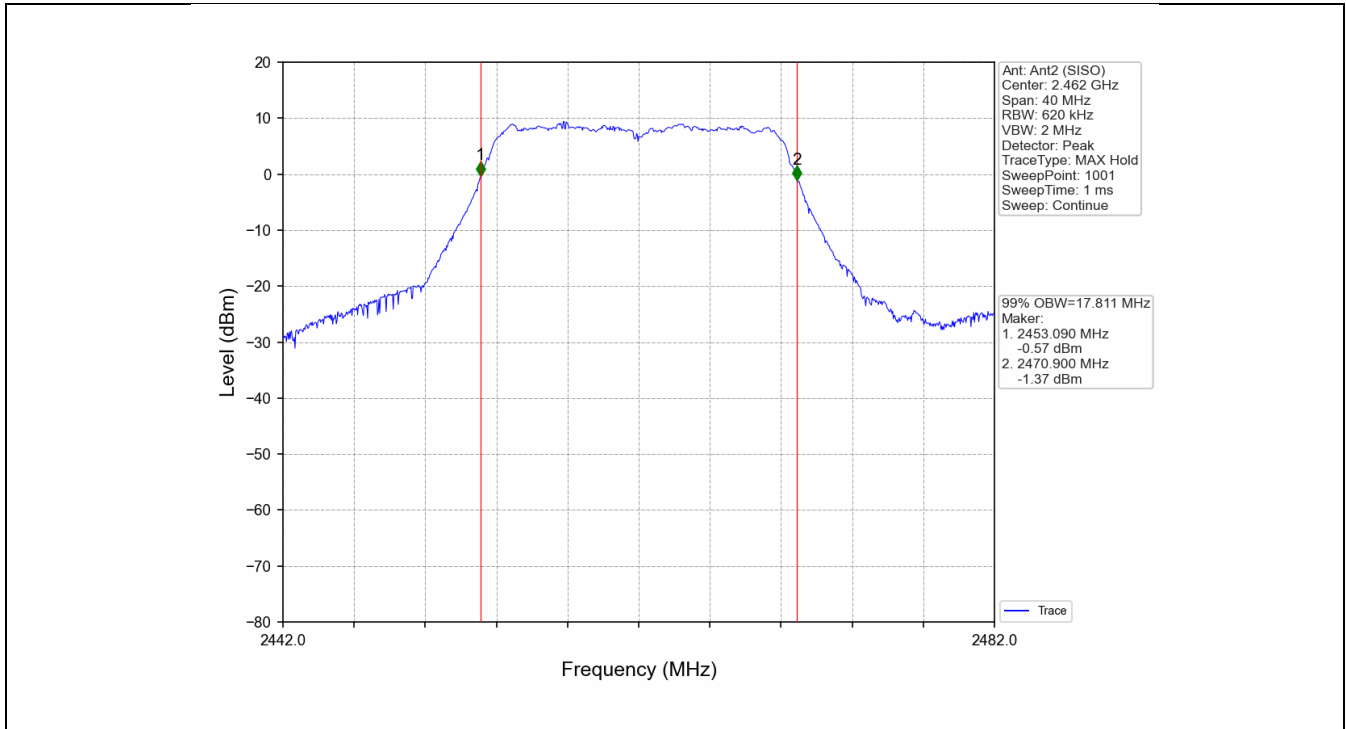
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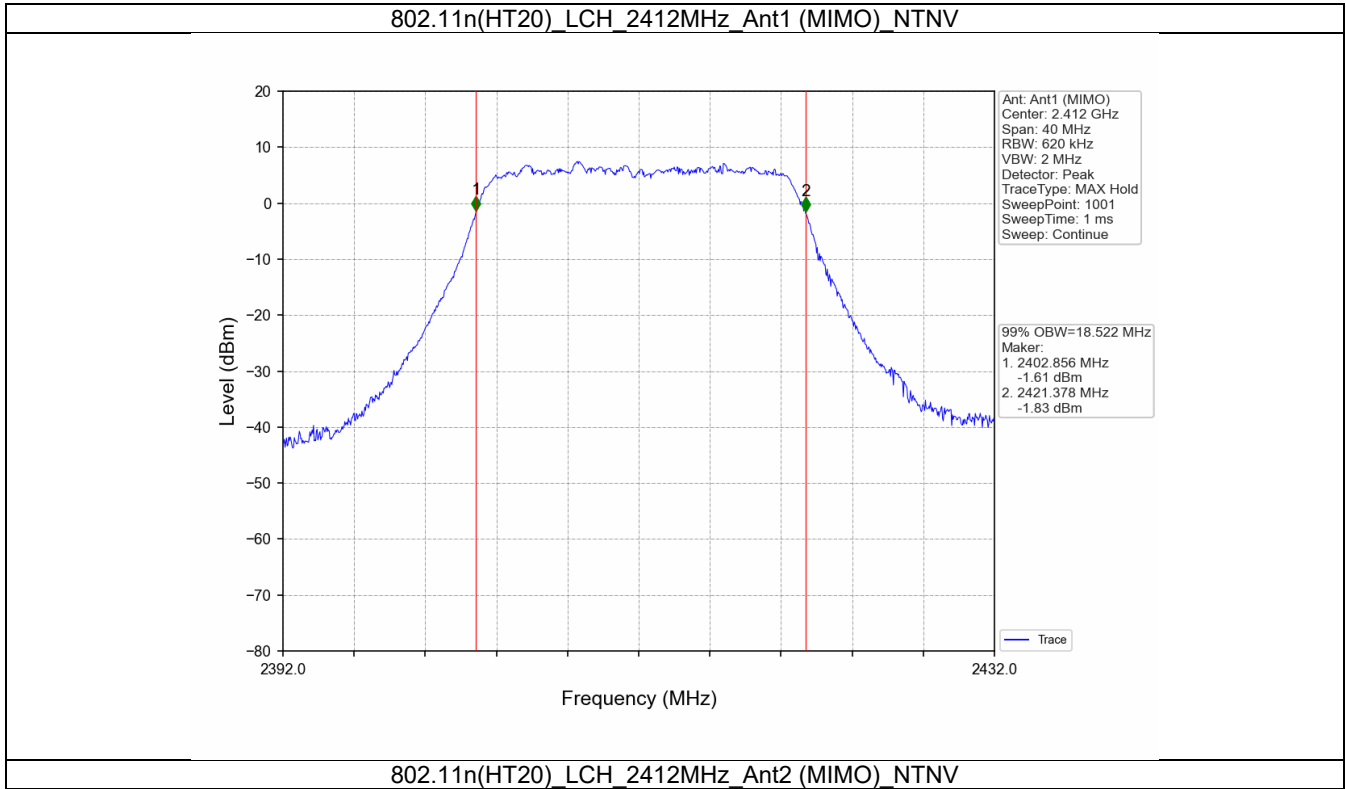
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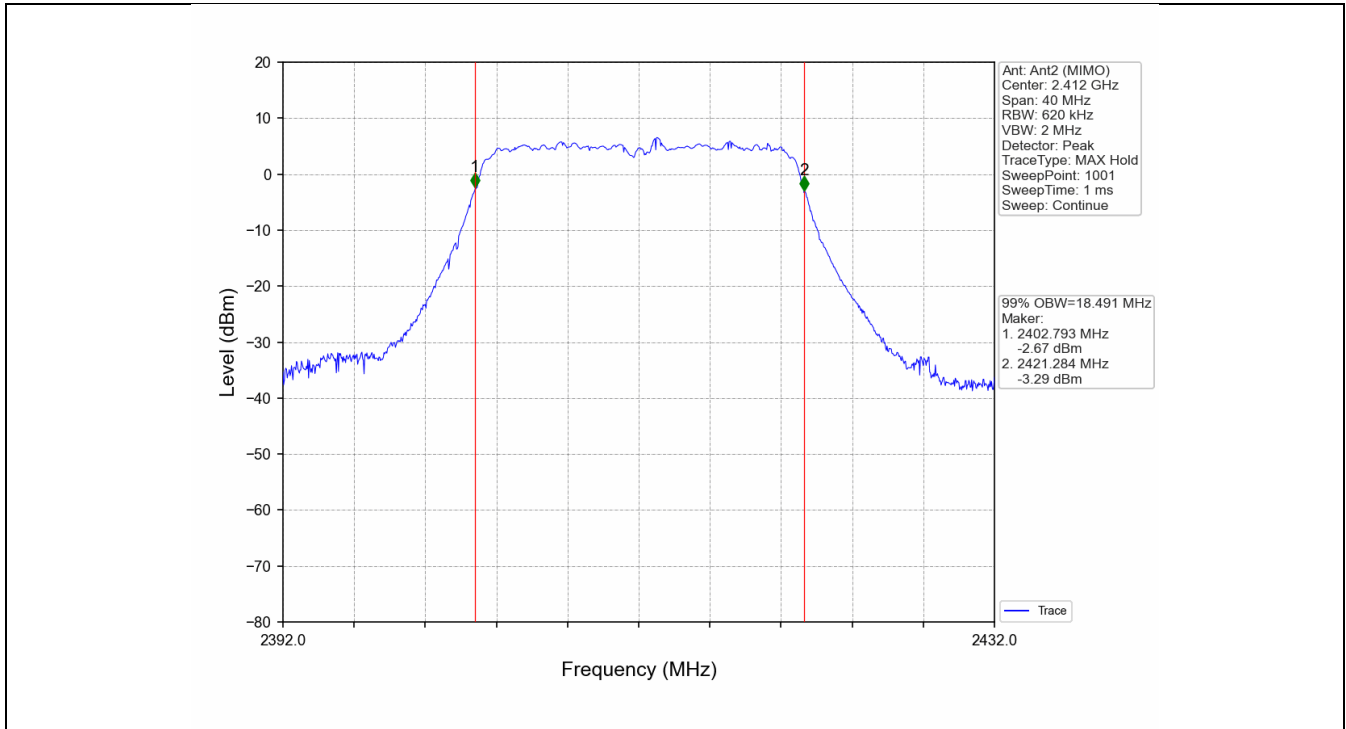
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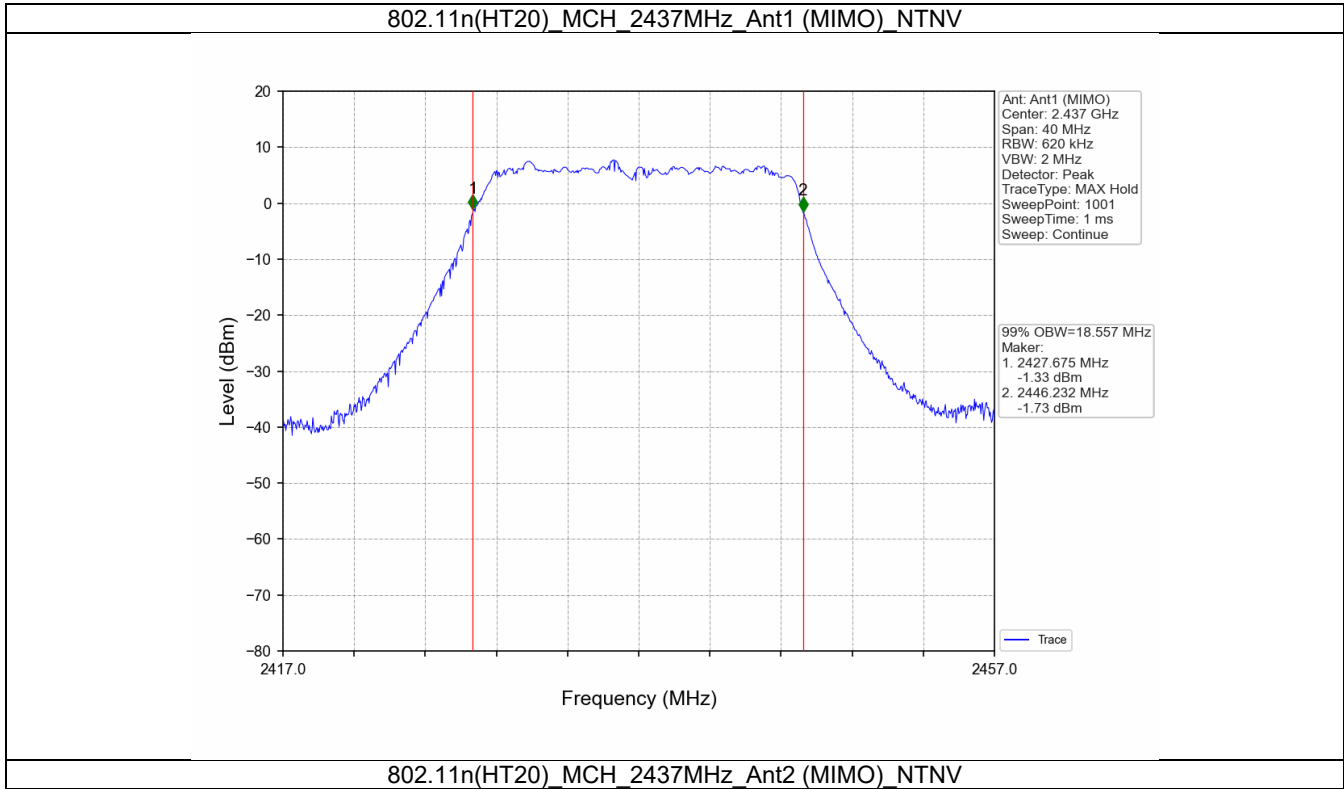
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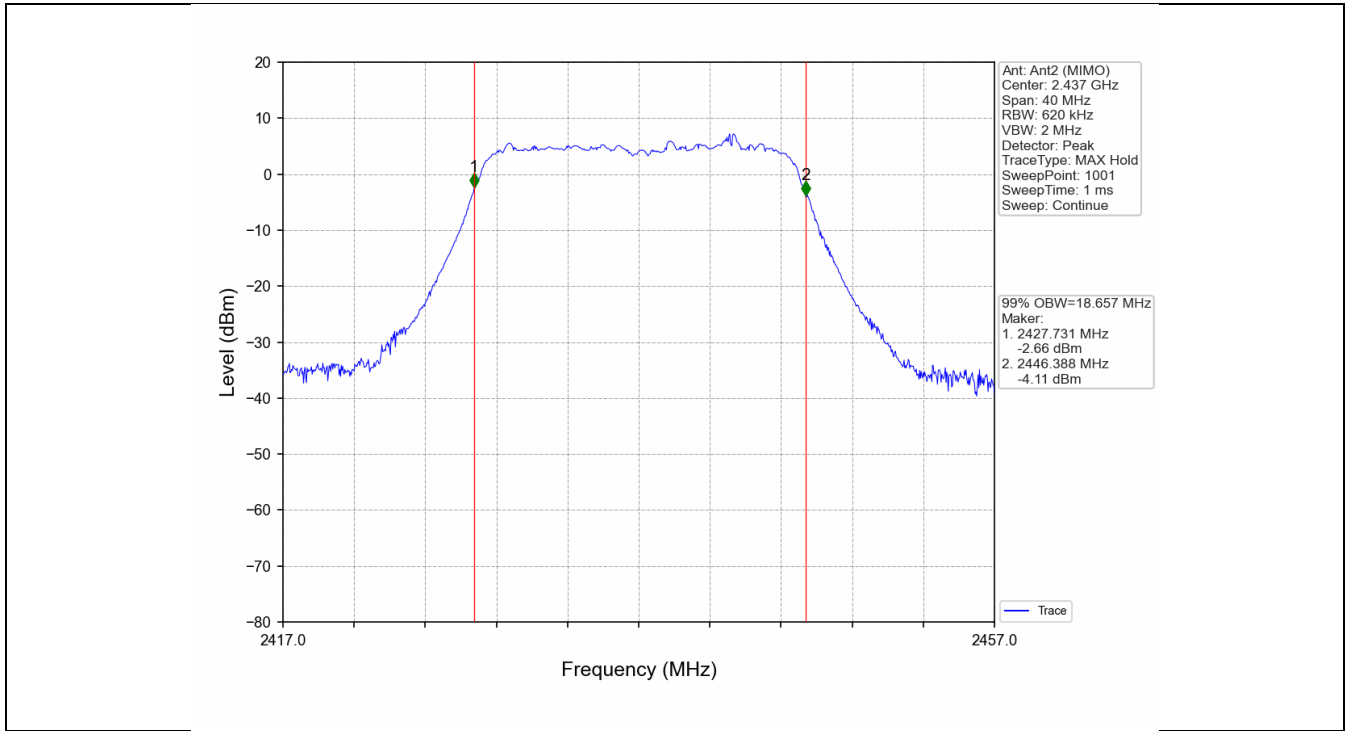
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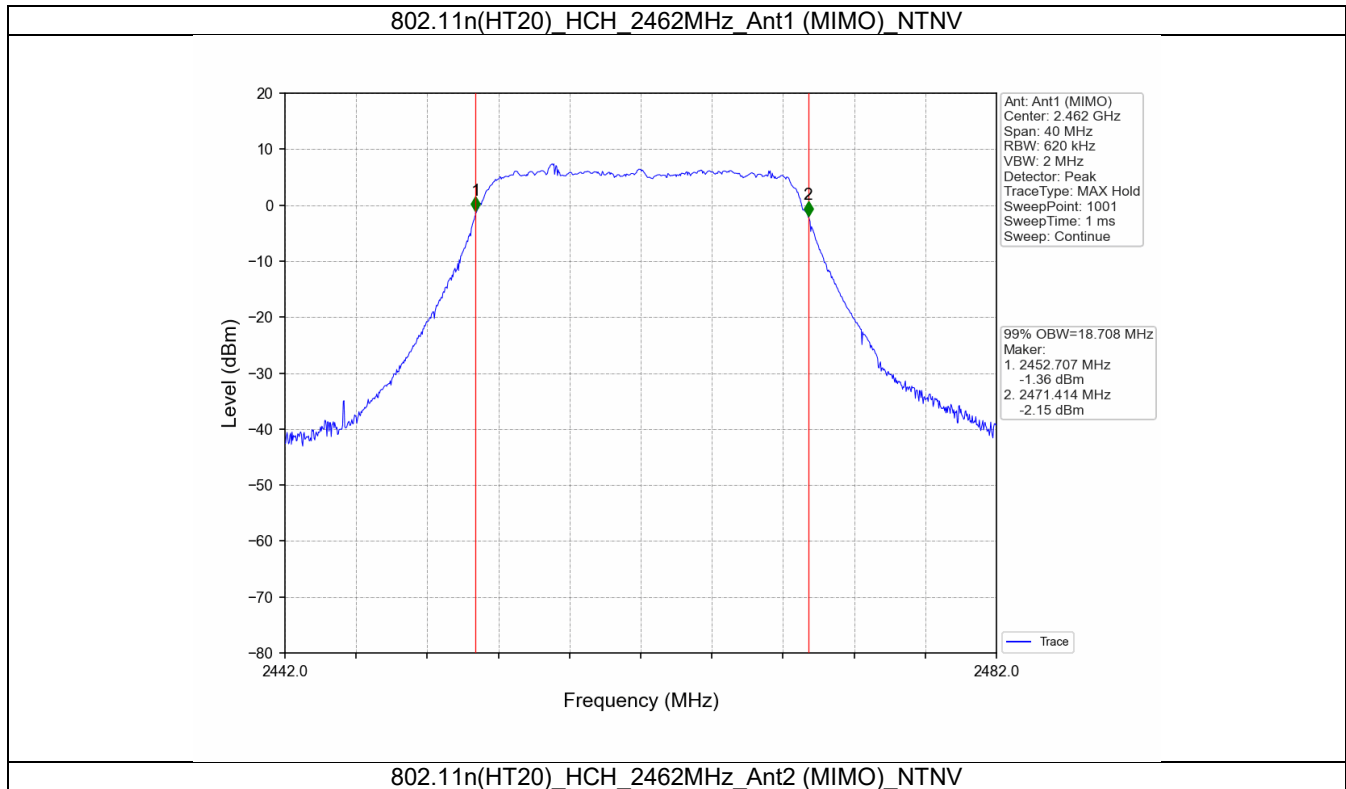
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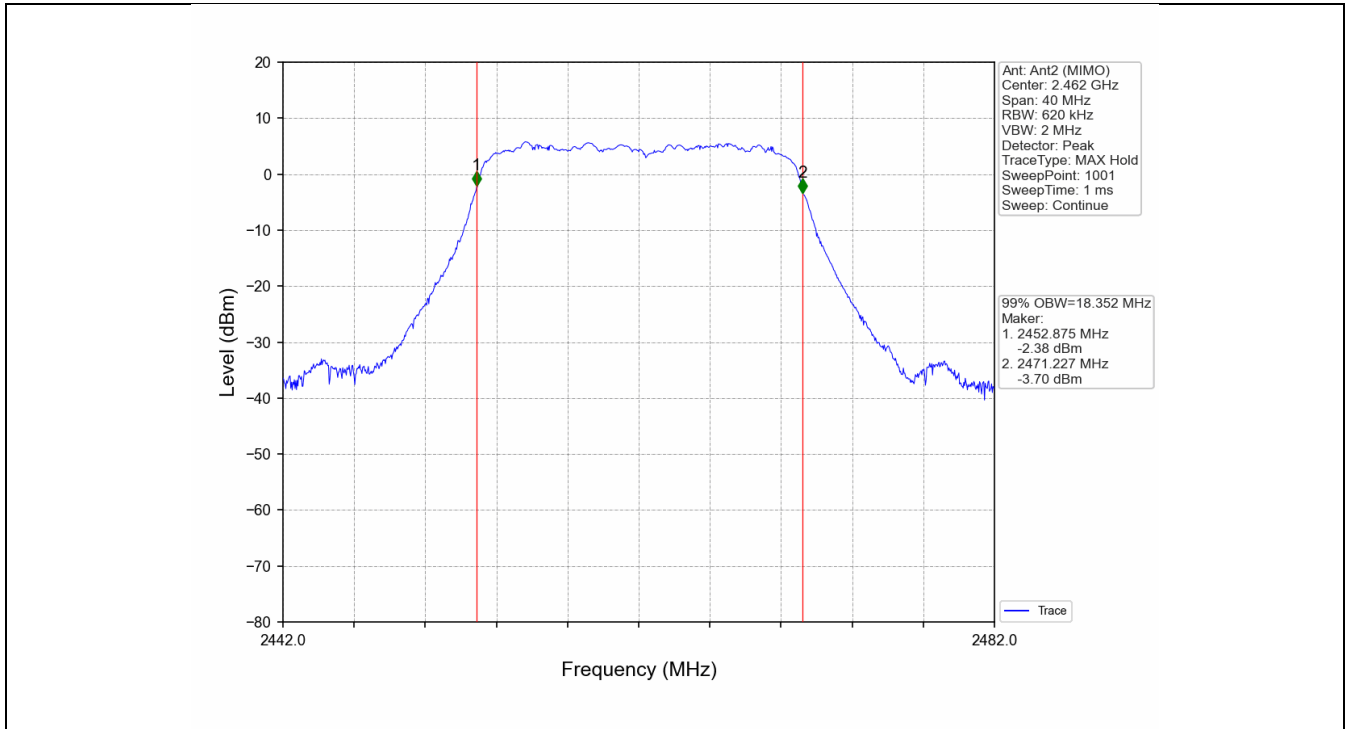
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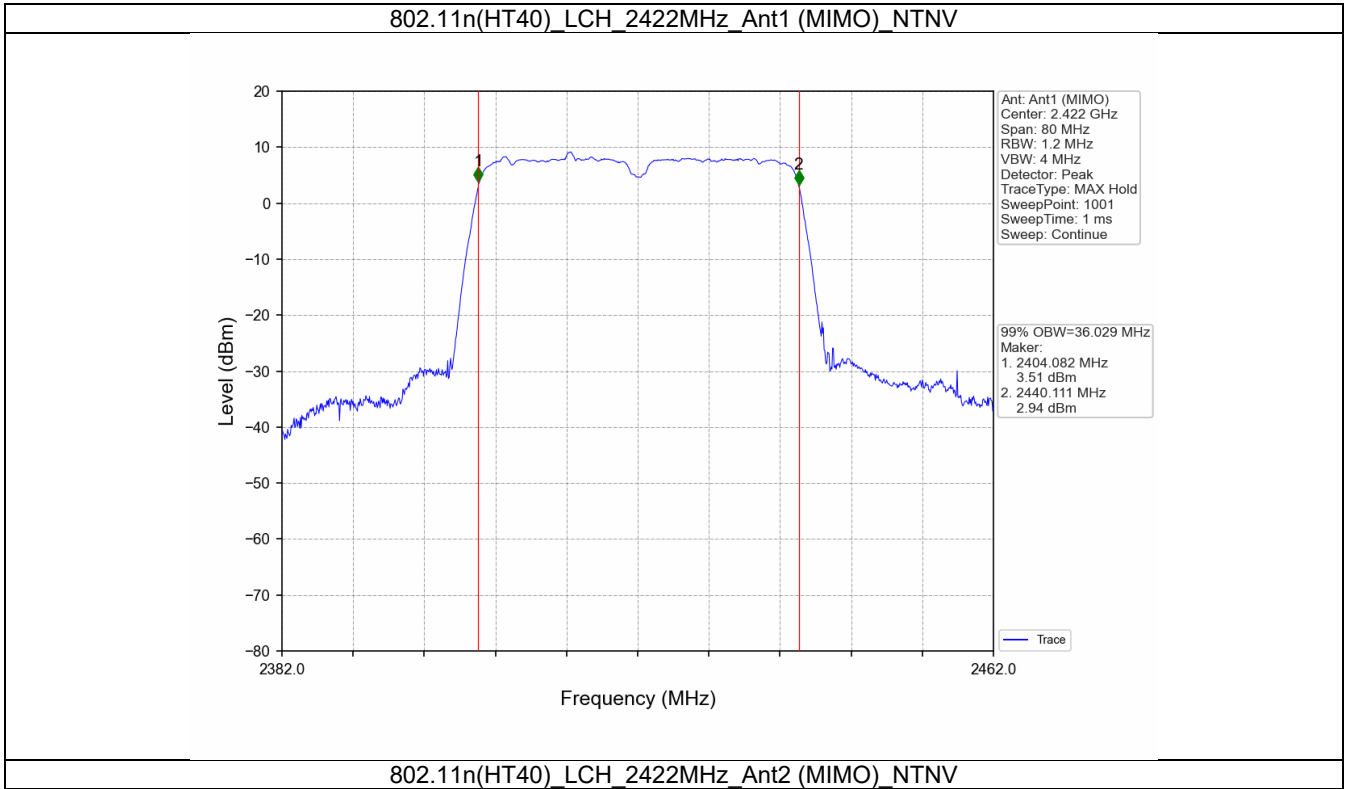
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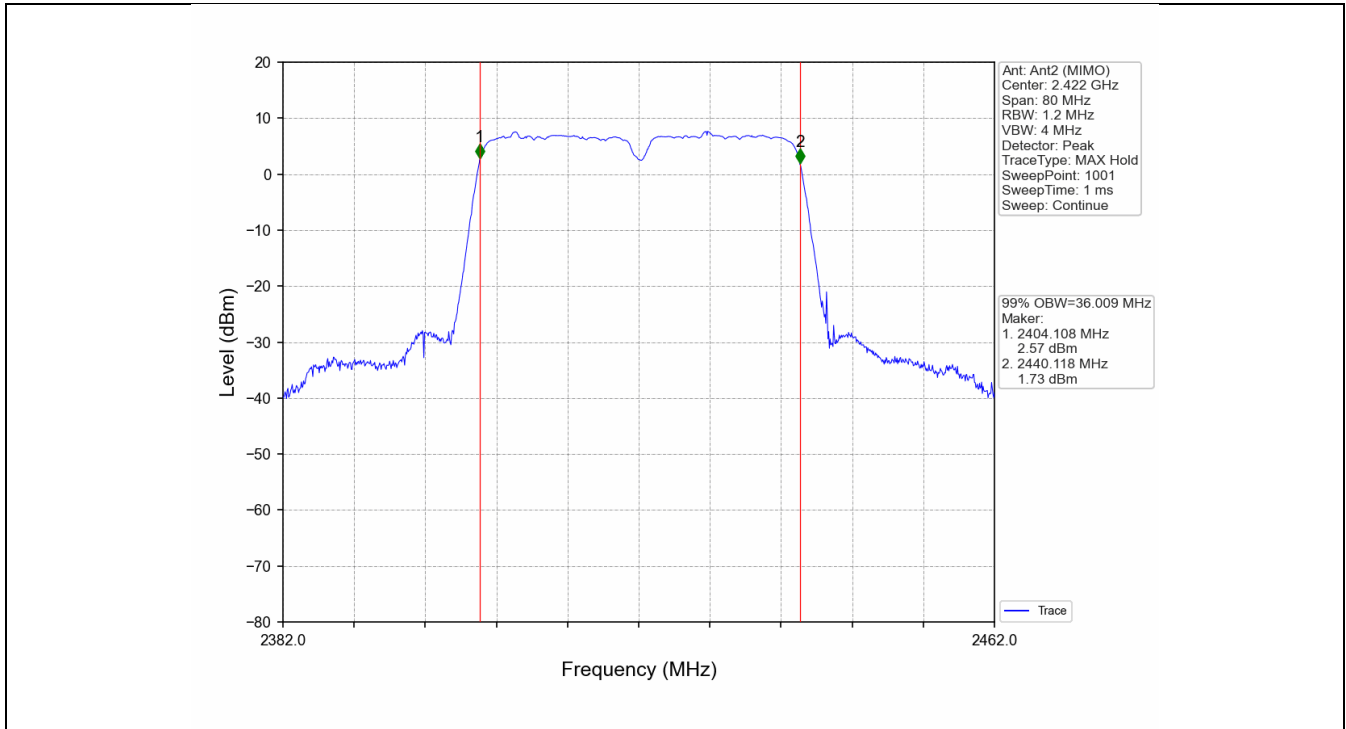
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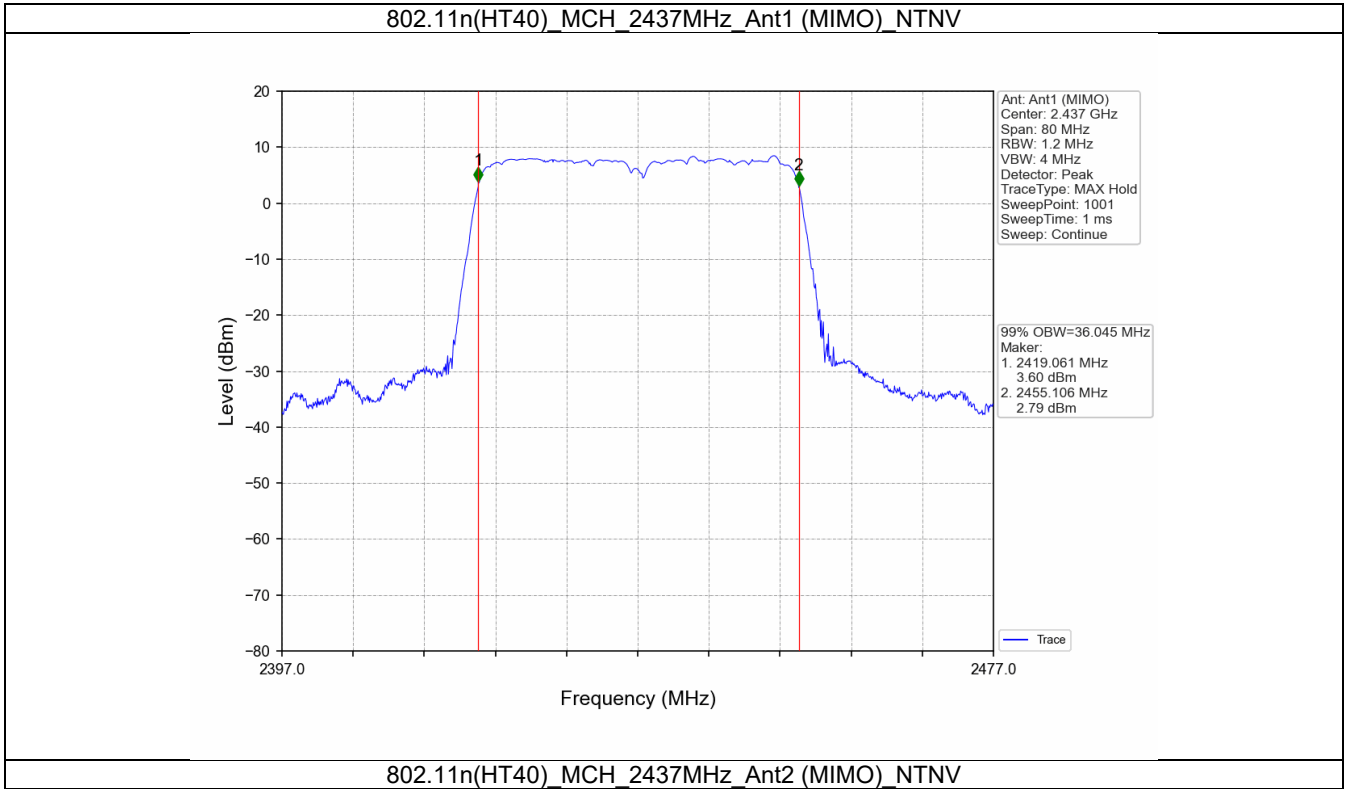
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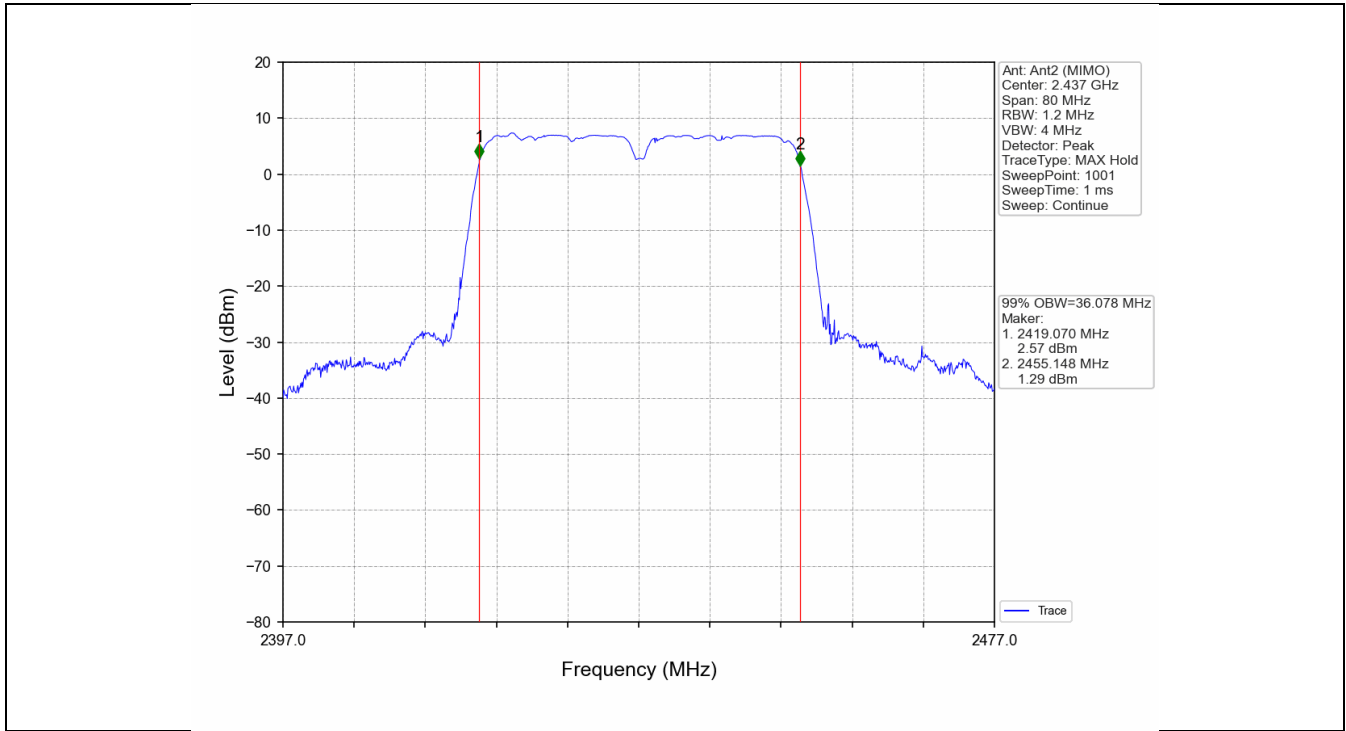
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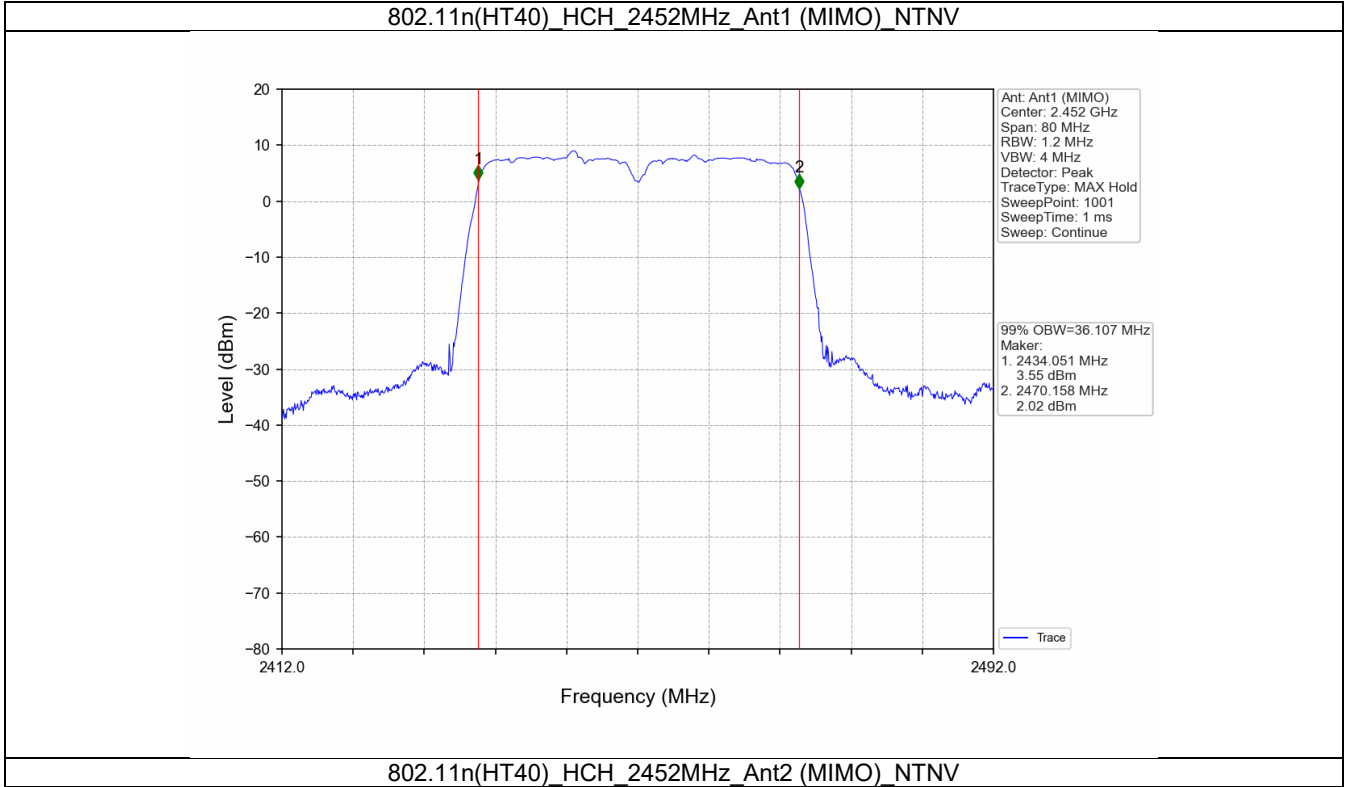
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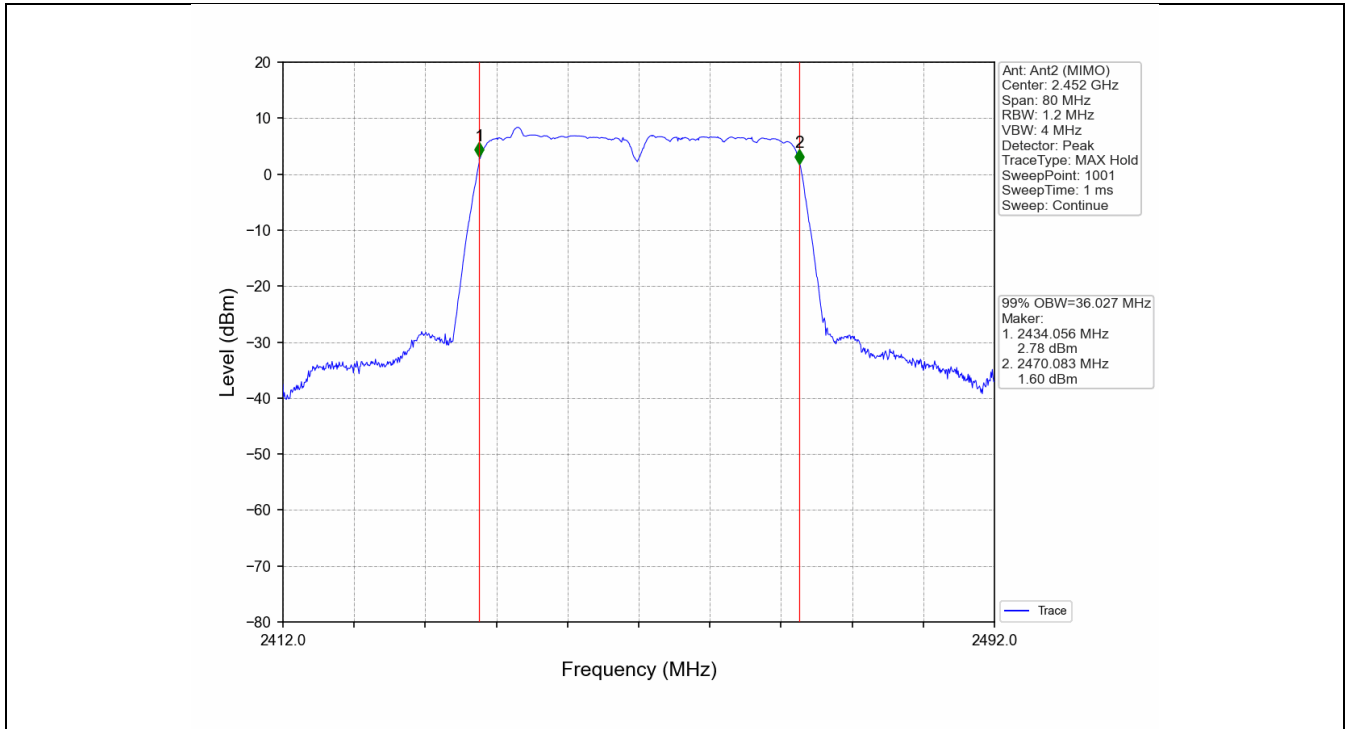


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2.2 6dB BW

2.2.1 Test Result

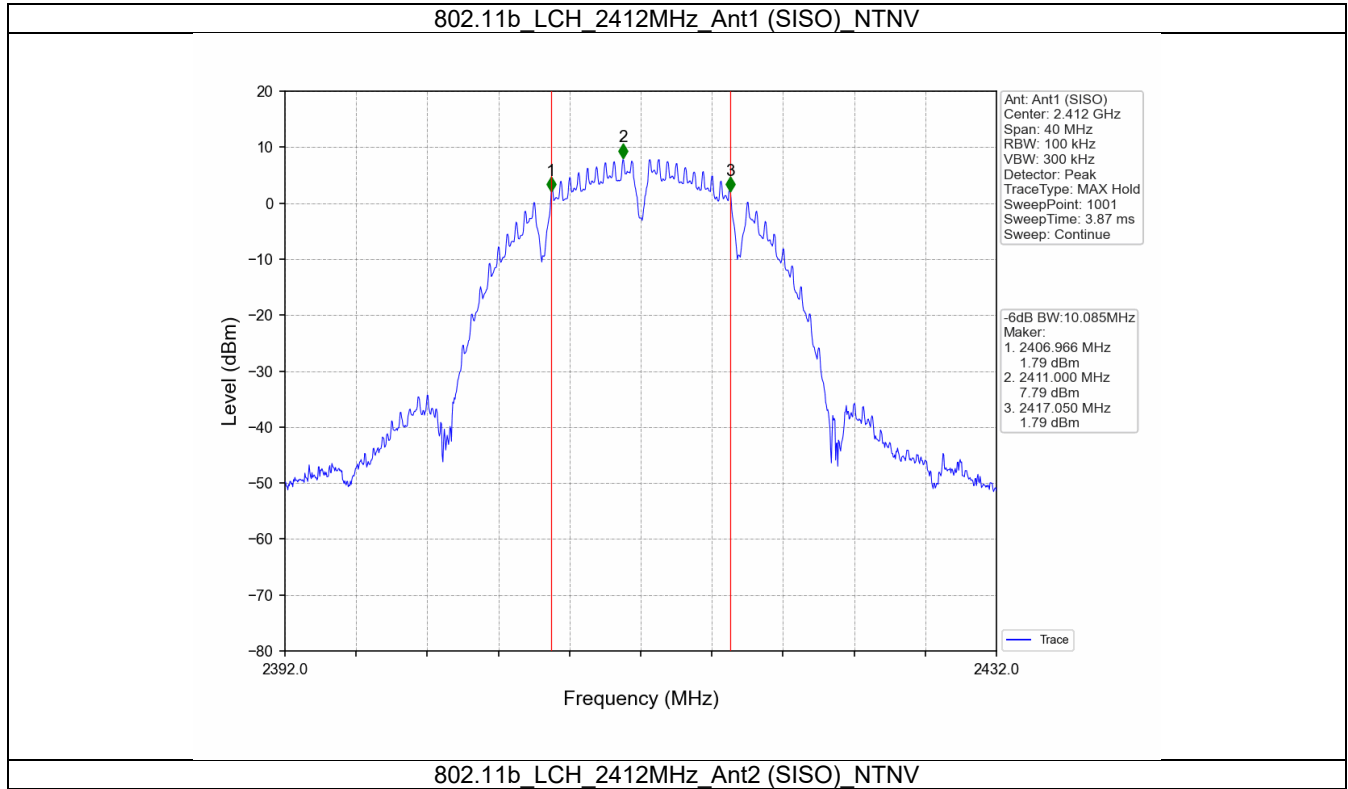
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.085	>=0.5	Pass
			2	10.091	>=0.5	Pass
		2437	1	10.092	>=0.5	Pass
			2	10.092	>=0.5	Pass
		2462	1	10.076	>=0.5	Pass
			2	10.099	>=0.5	Pass
802.11g	SISO	2412	1	16.375	>=0.5	Pass
			2	16.395	>=0.5	Pass
		2437	1	16.382	>=0.5	Pass
			2	16.388	>=0.5	Pass
		2462	1	16.385	>=0.5	Pass
			2	16.377	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.570	>=0.5	Pass
			2	17.573	>=0.5	Pass
		2437	1	17.571	>=0.5	Pass
			2	17.549	>=0.5	Pass
		2462	1	17.582	>=0.5	Pass
			2	17.578	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.416	>=0.5	Pass
			2	35.686	>=0.5	Pass
		2437	1	35.562	>=0.5	Pass
			2	35.574	>=0.5	Pass
		2452	1	35.312	>=0.5	Pass
			2	35.754	>=0.5	Pass



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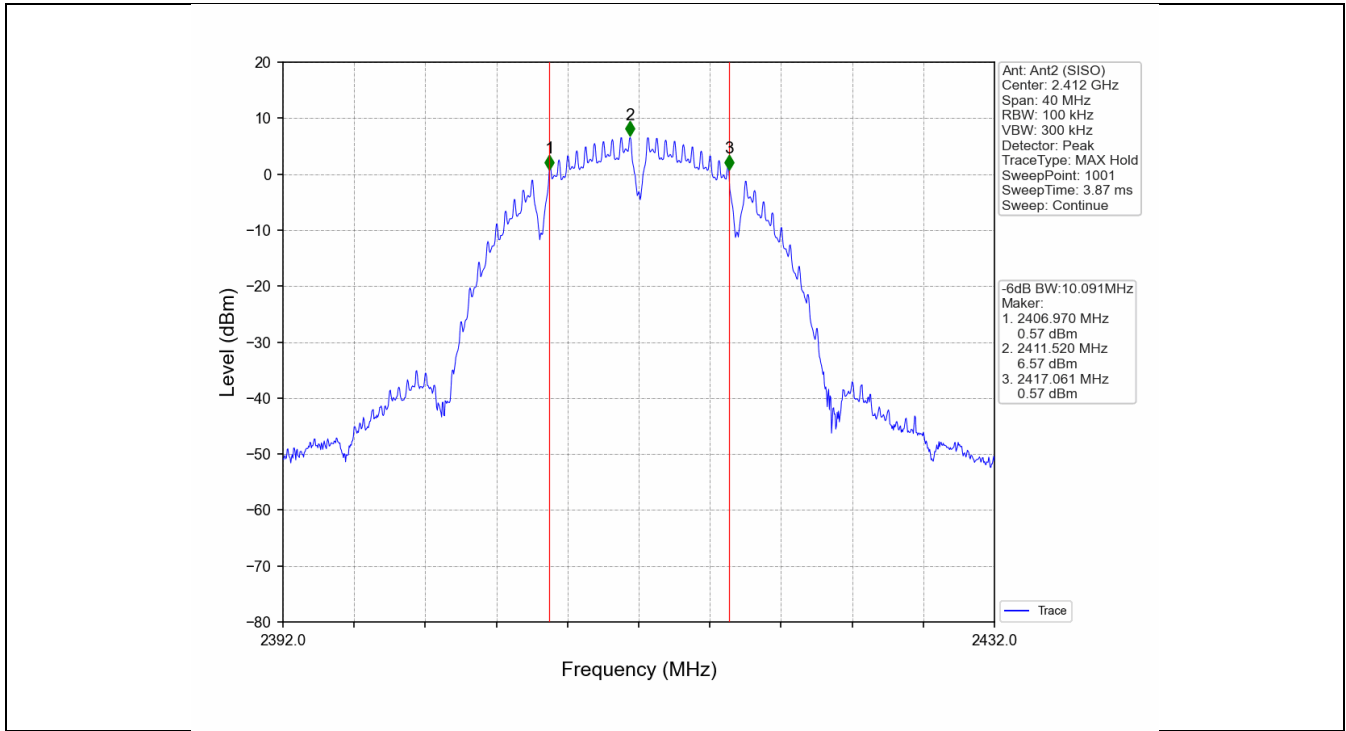
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2.2.2 Test Graph



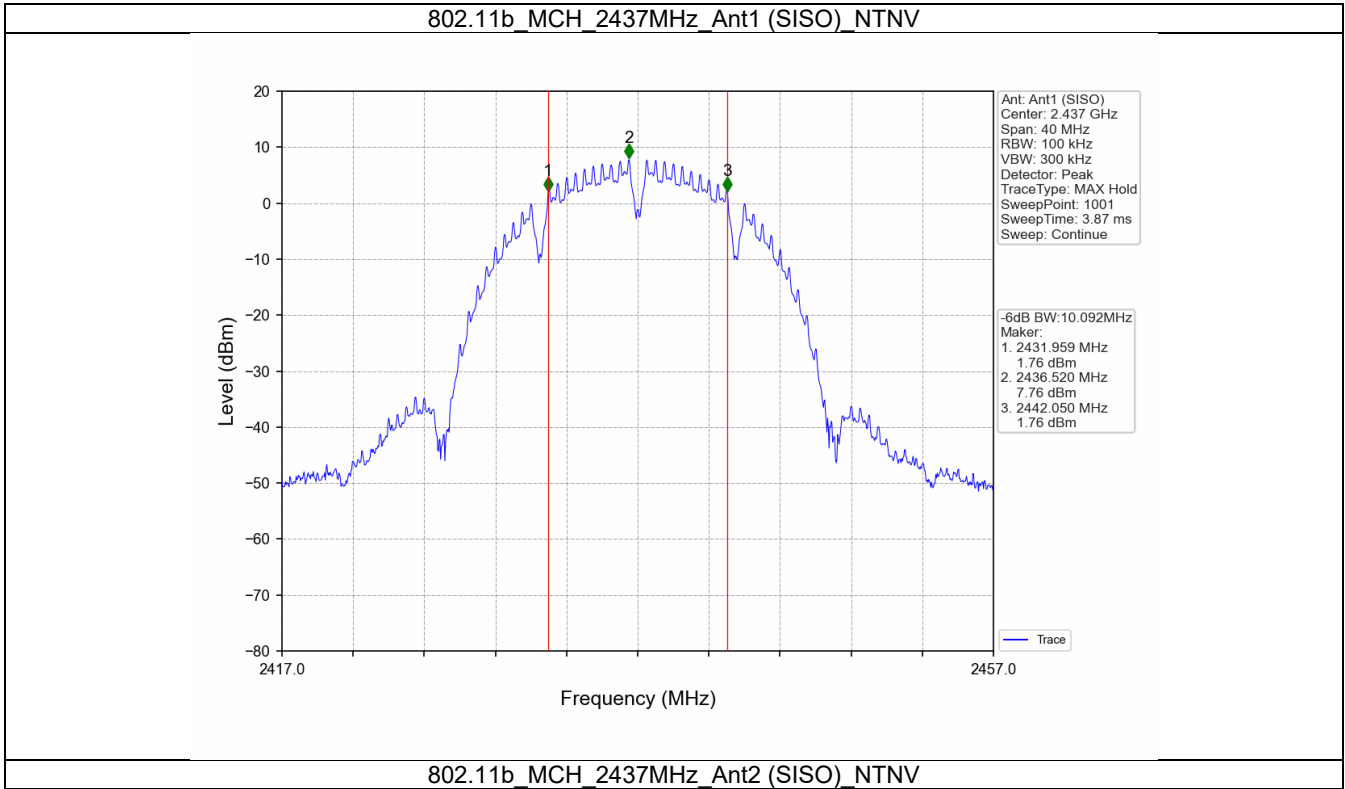
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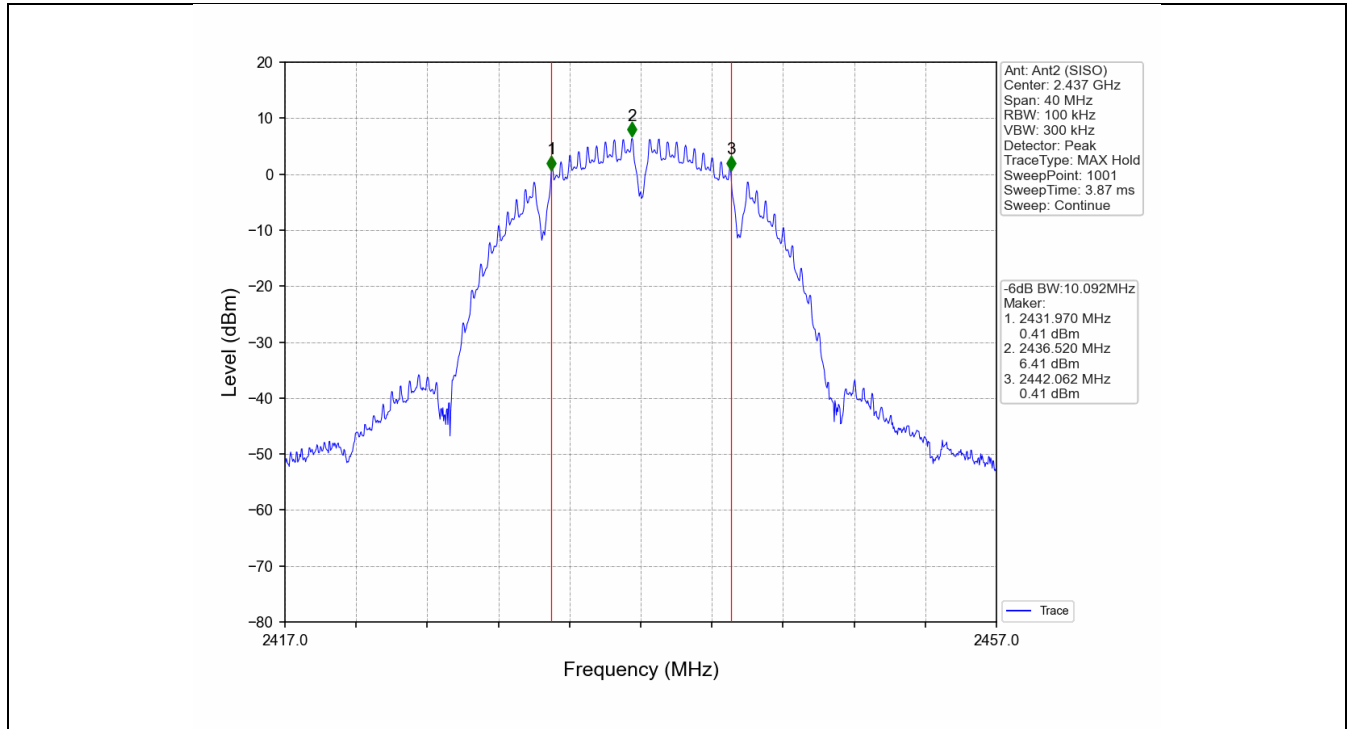
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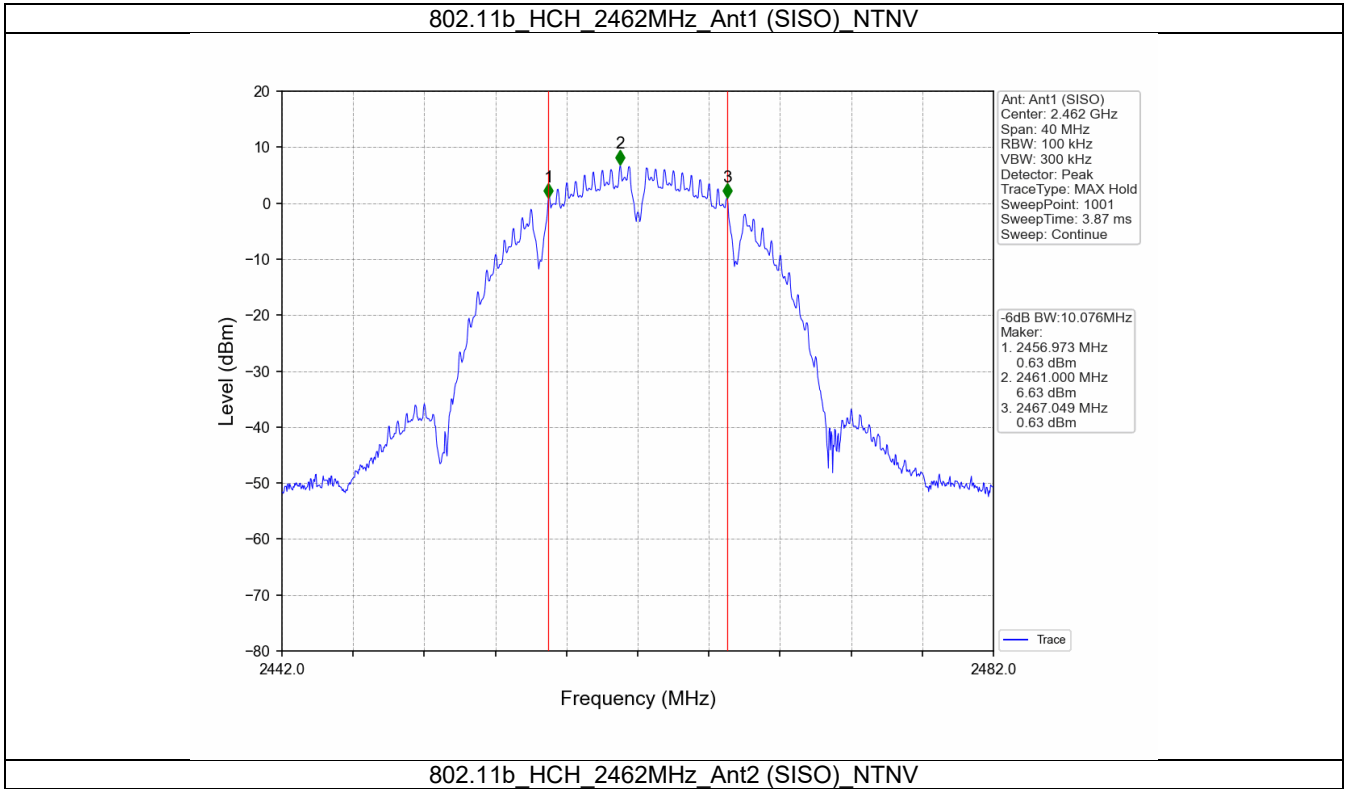
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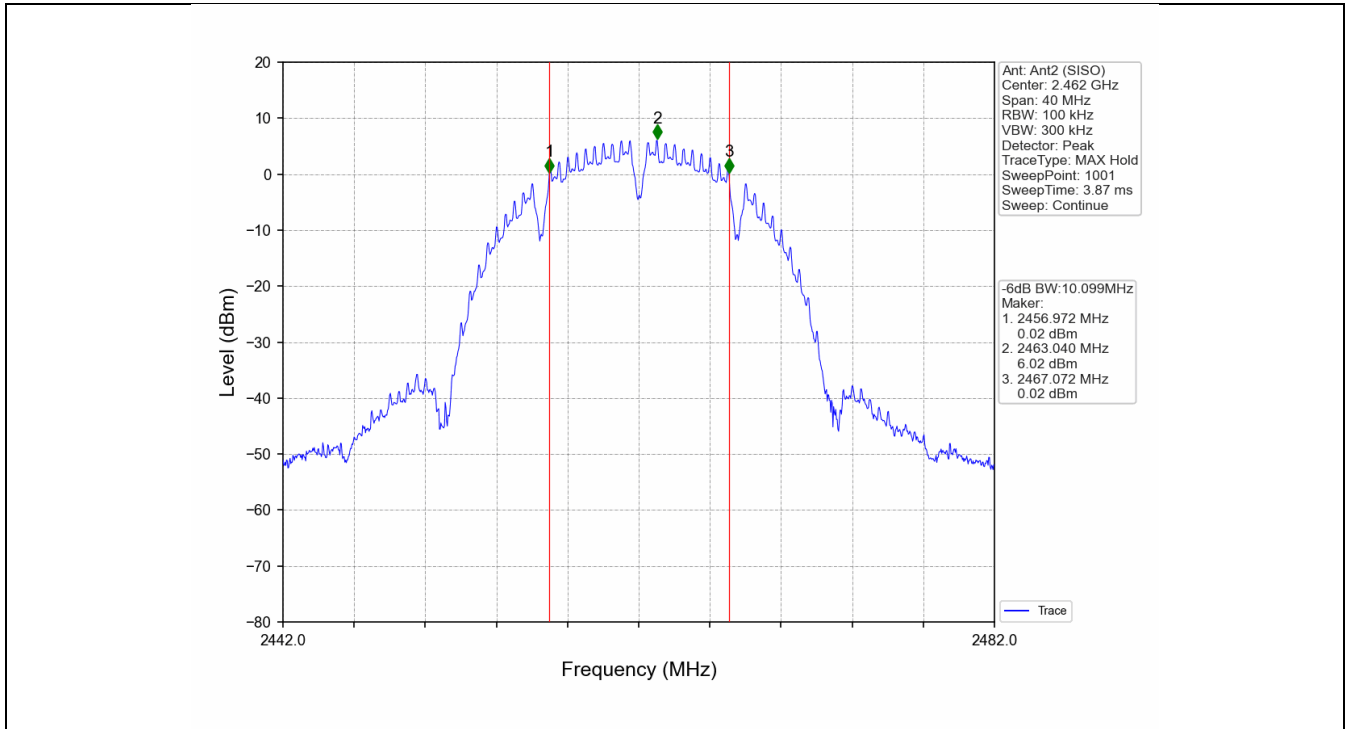
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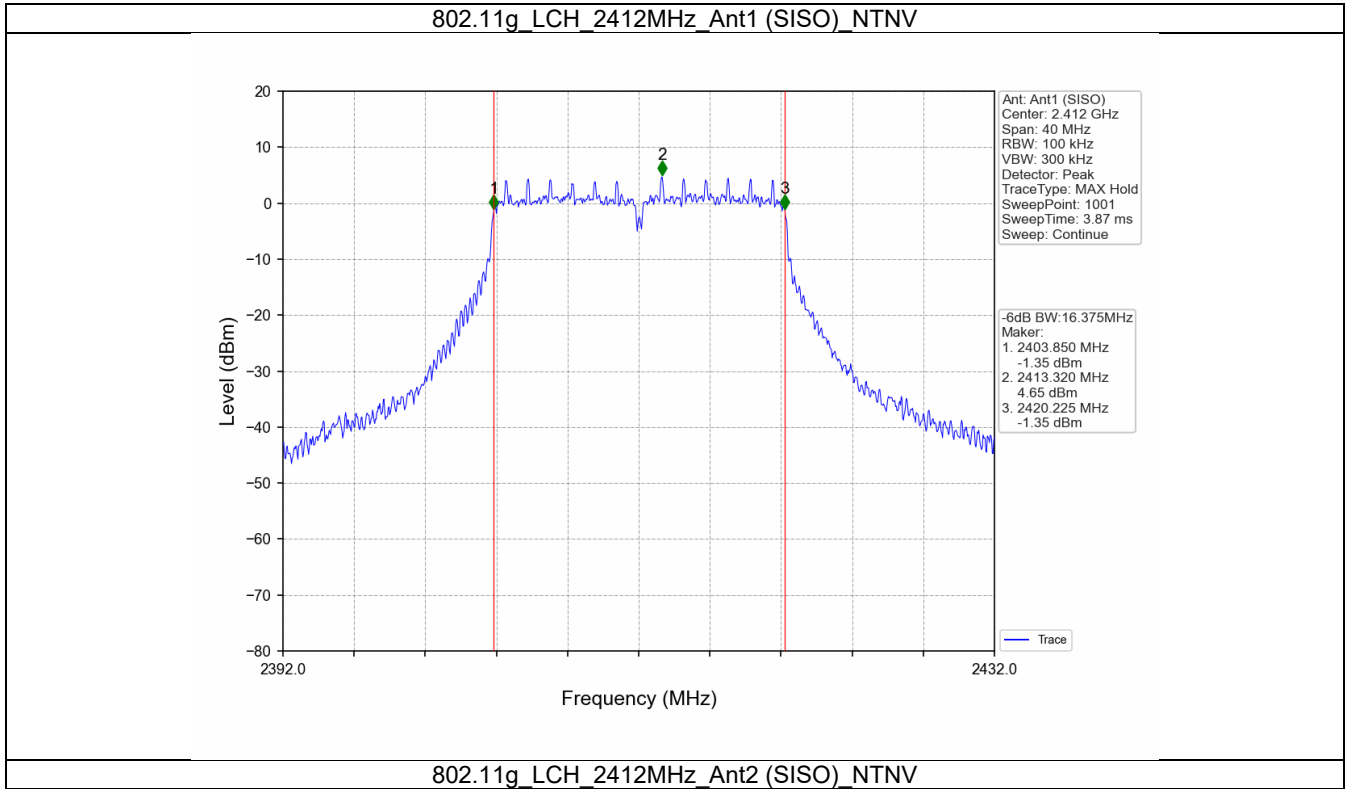




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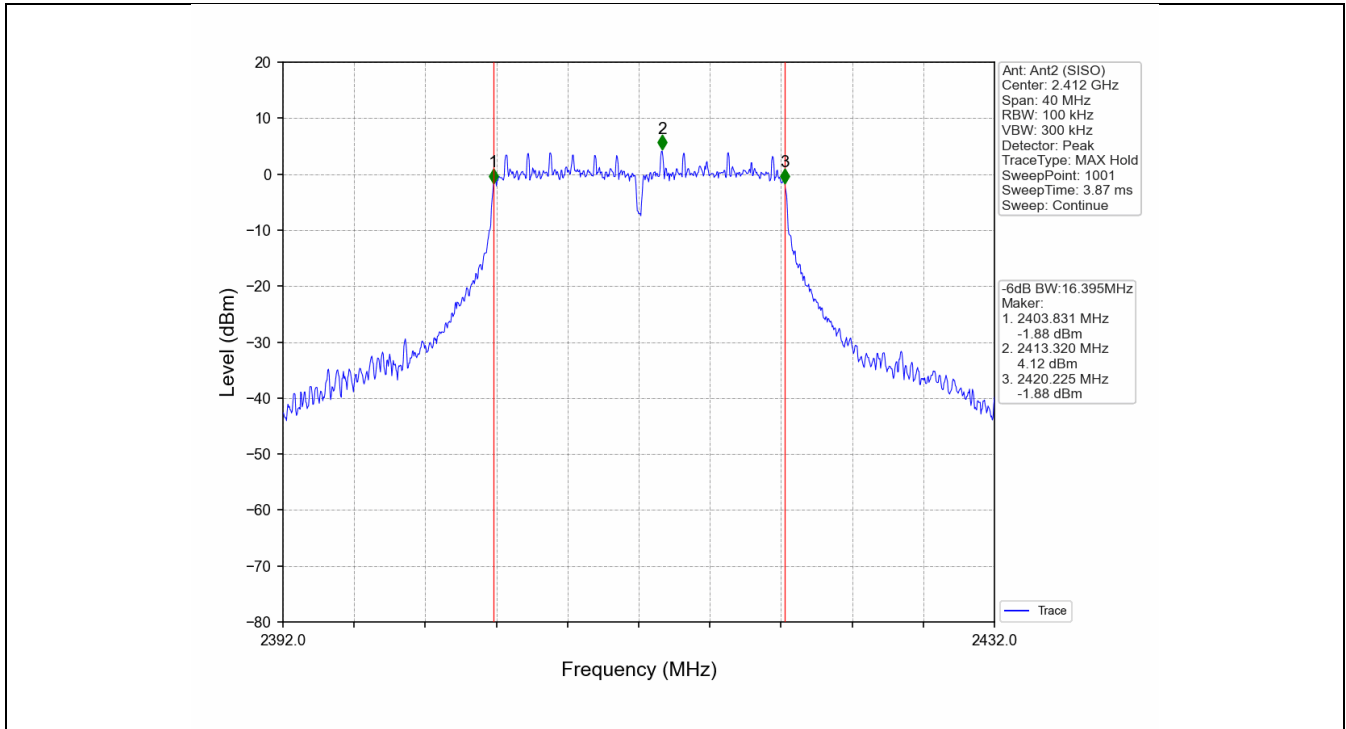
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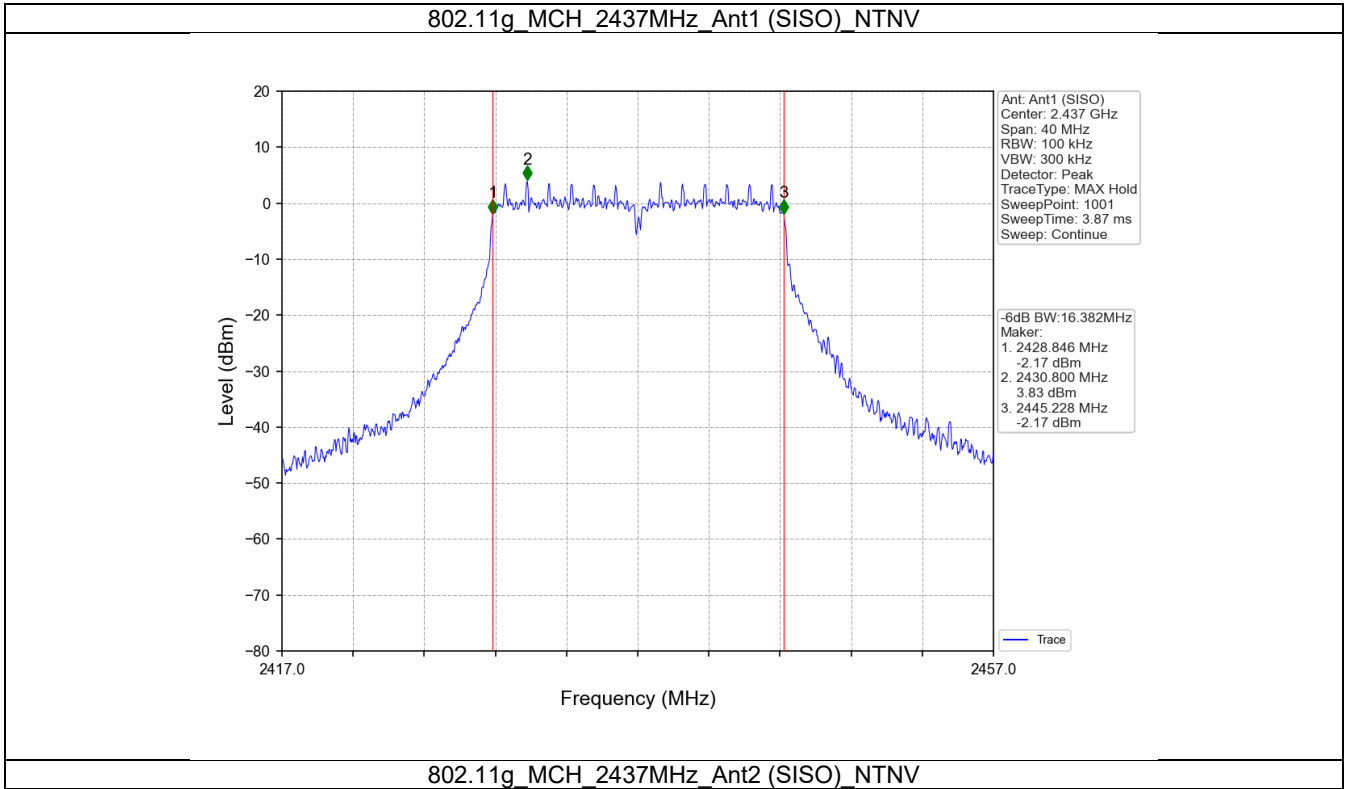
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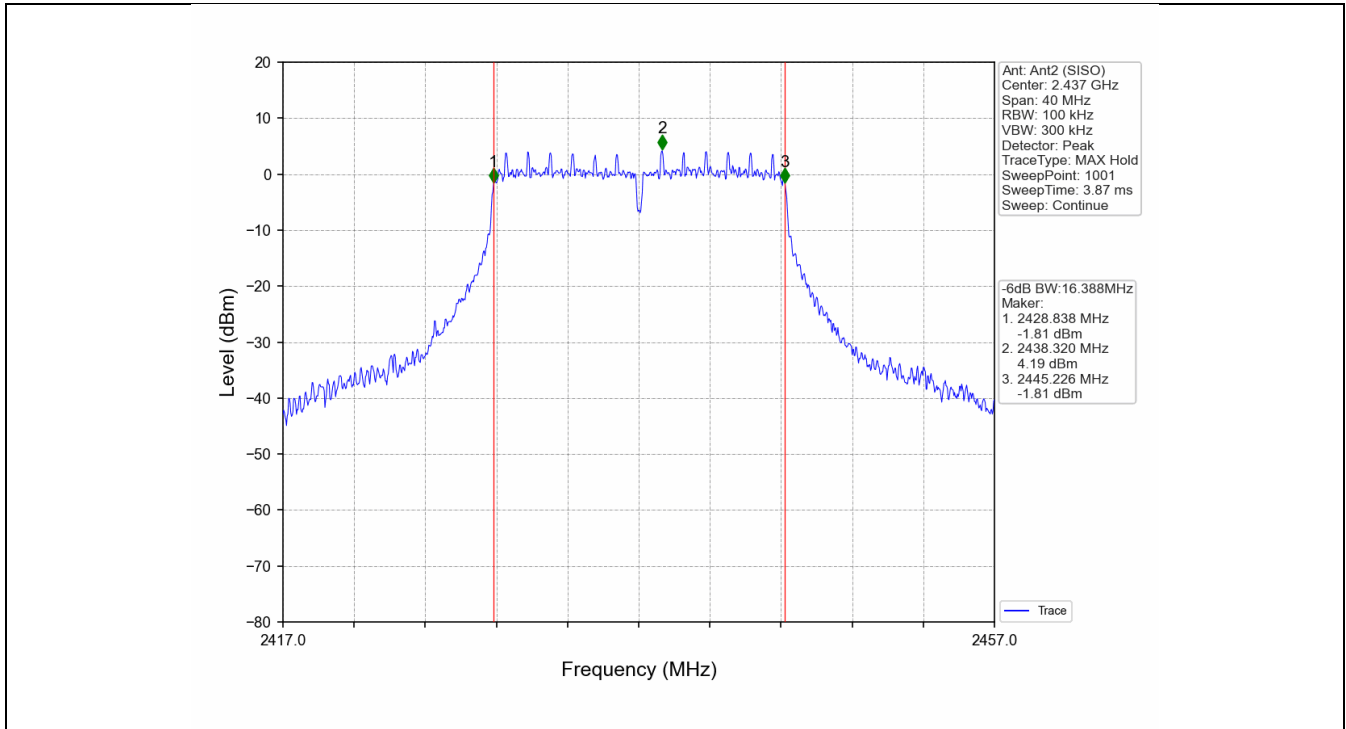
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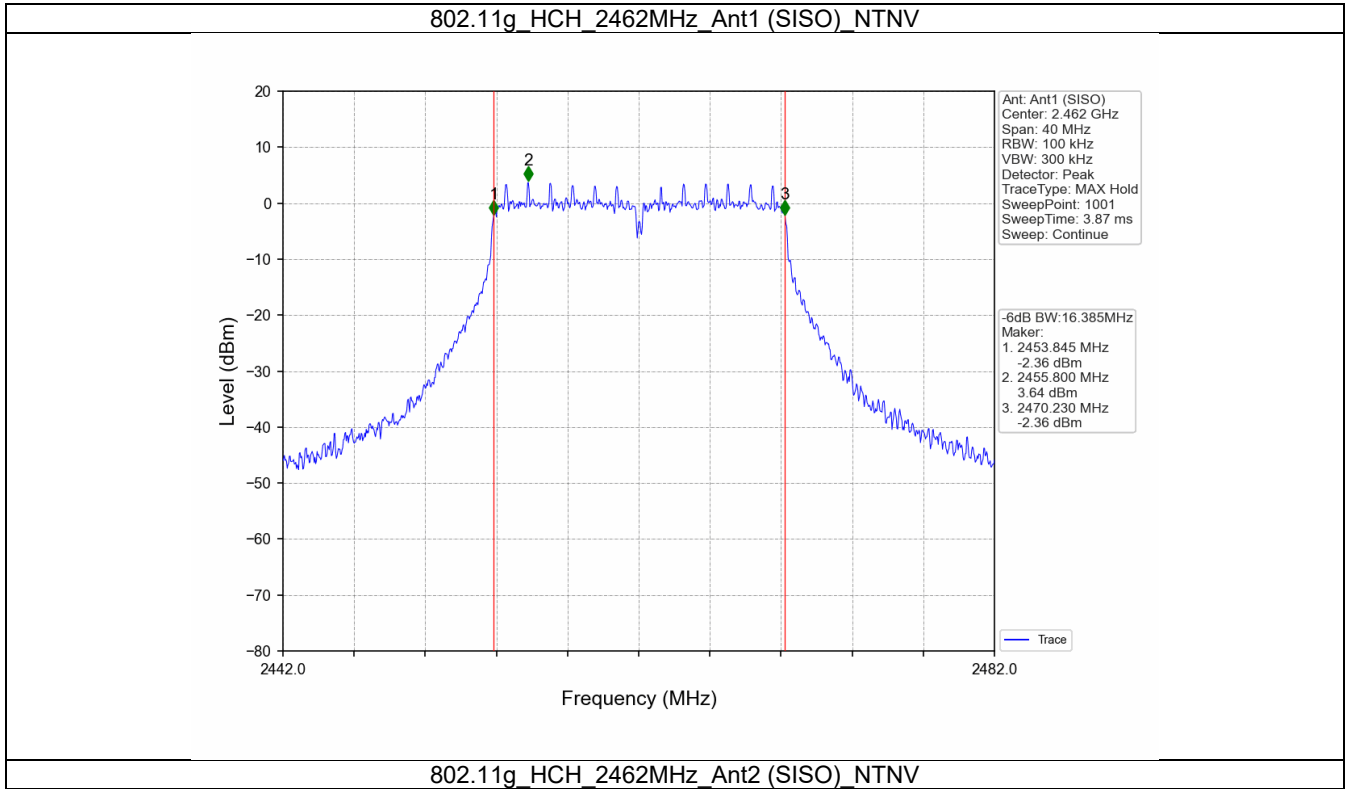
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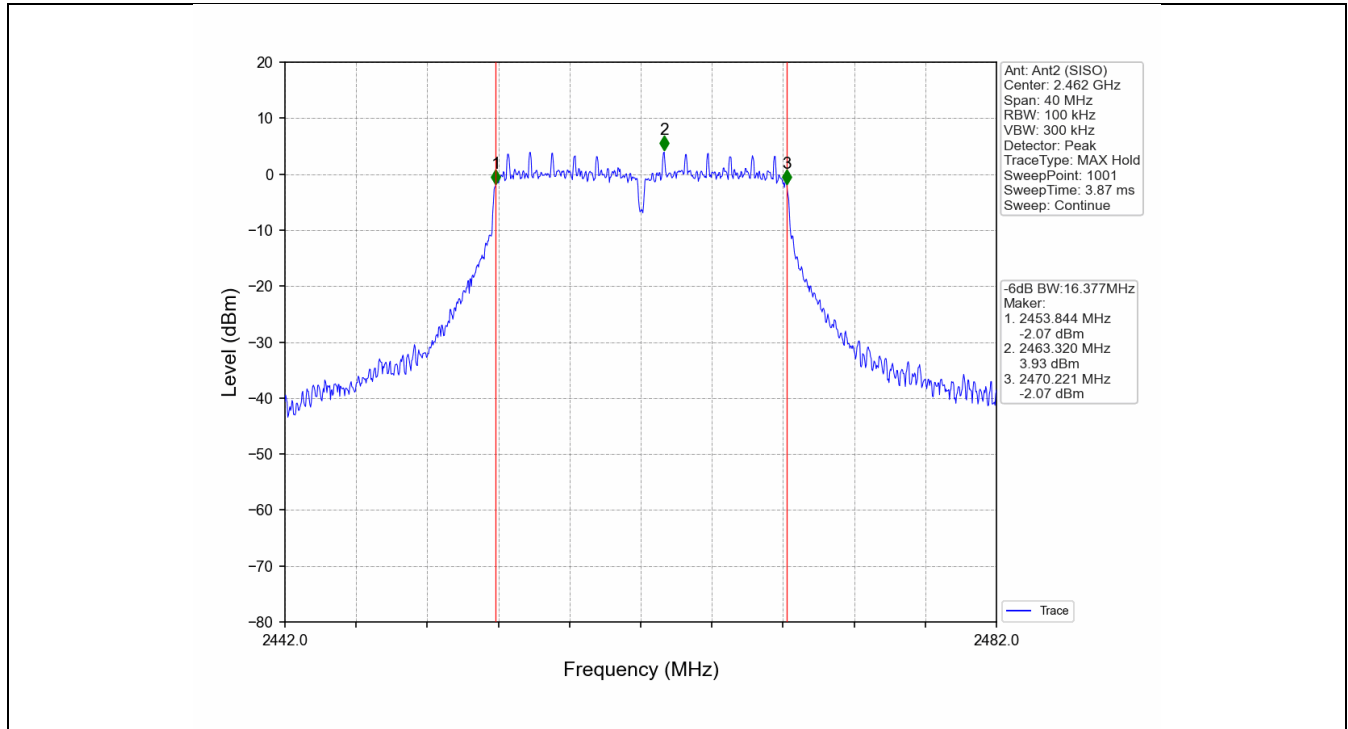
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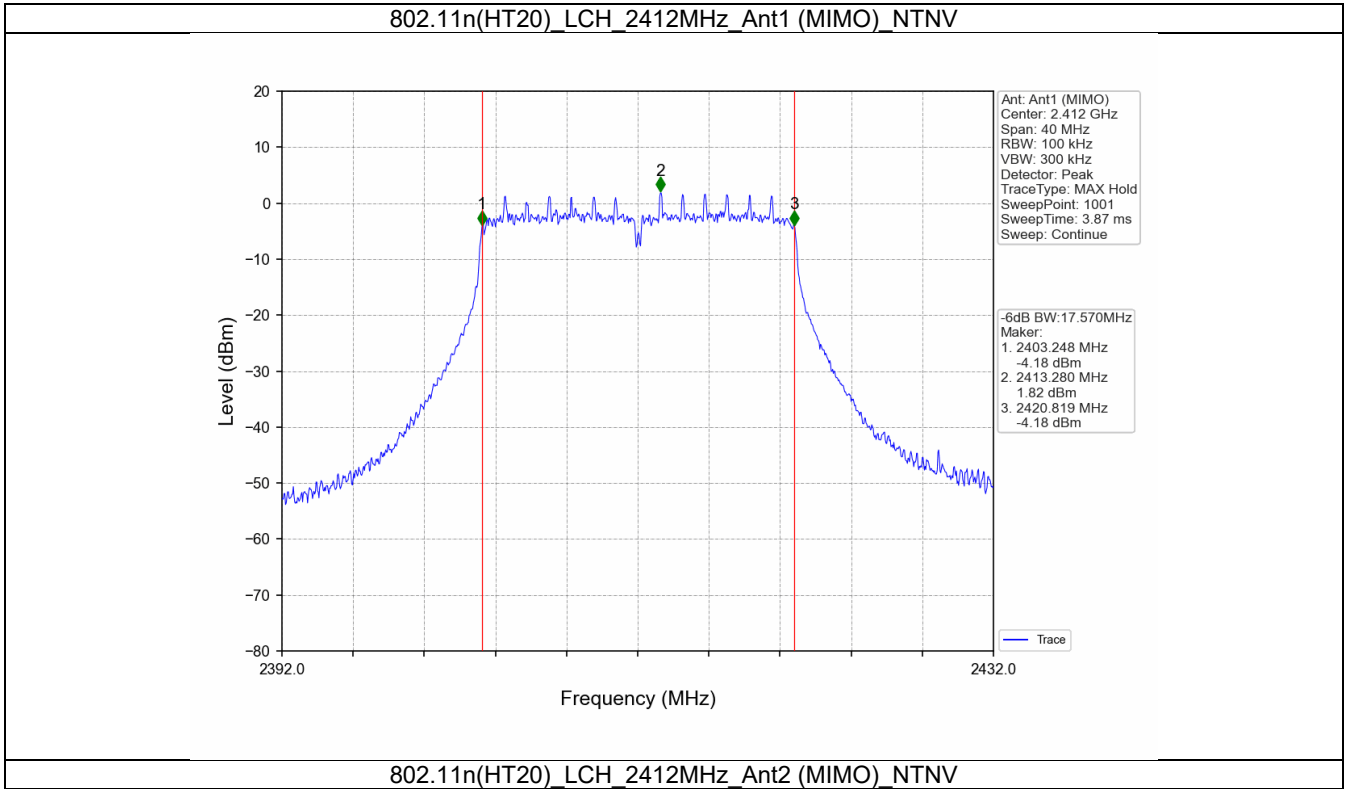
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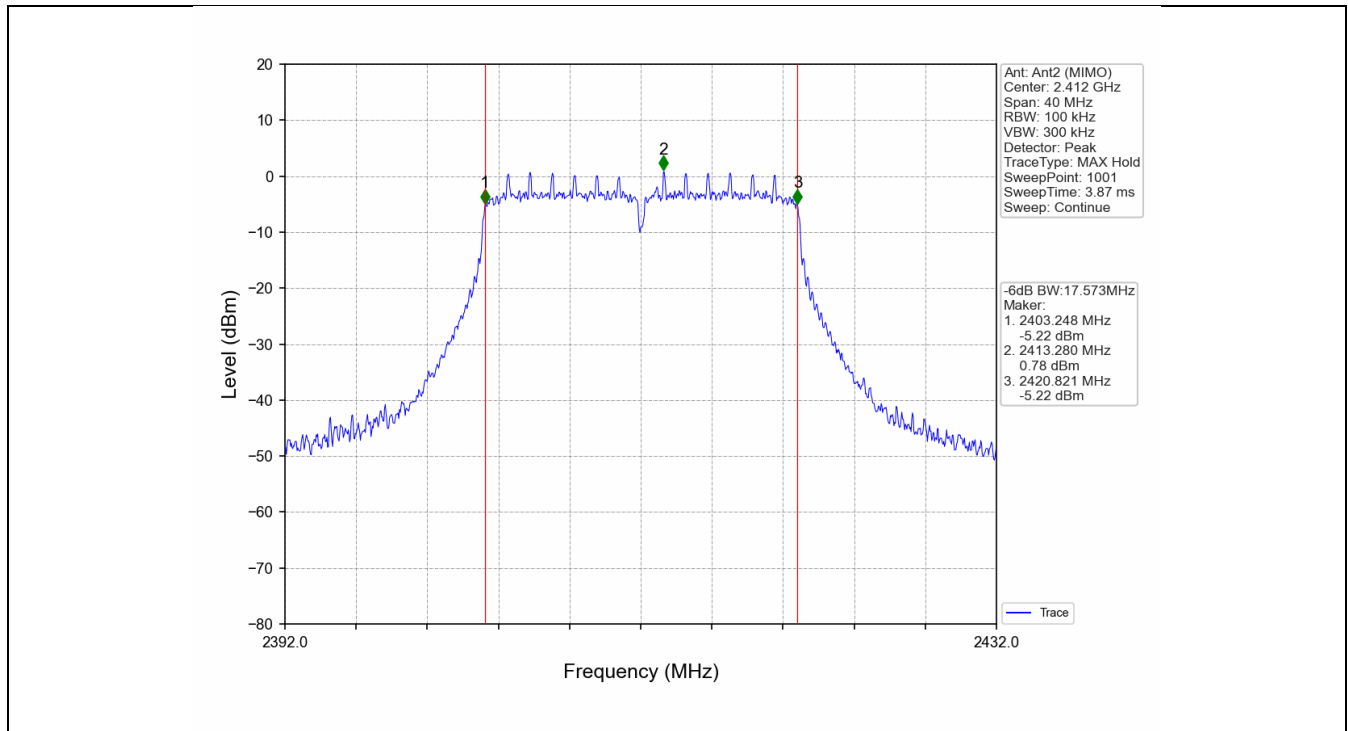
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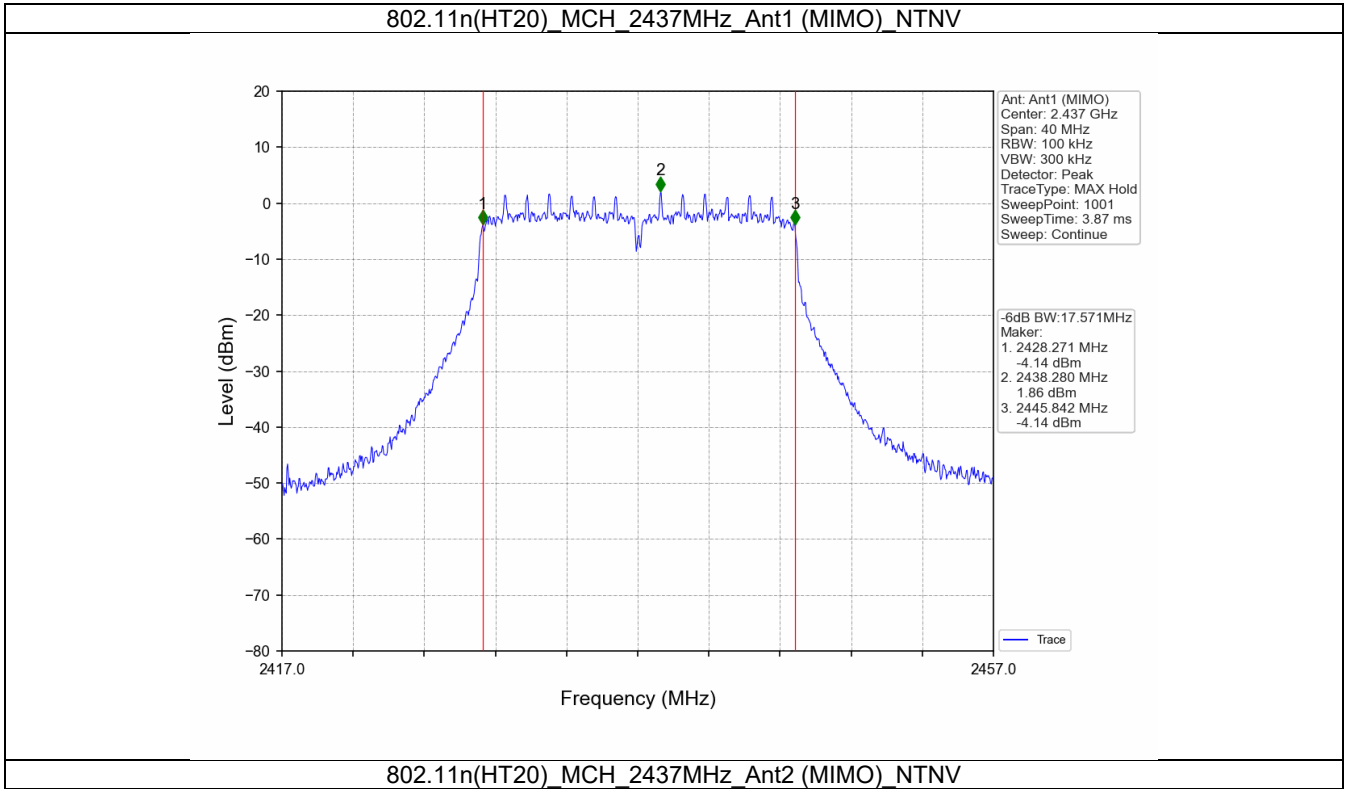
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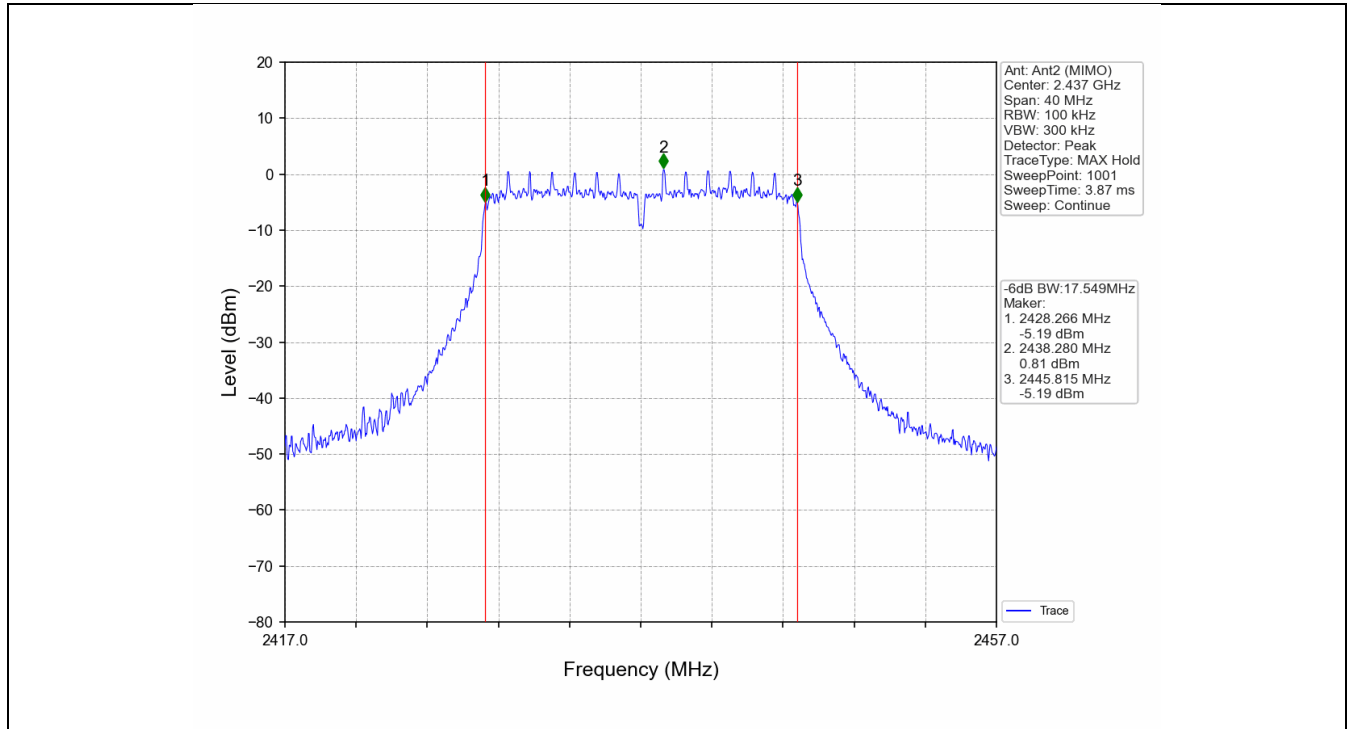
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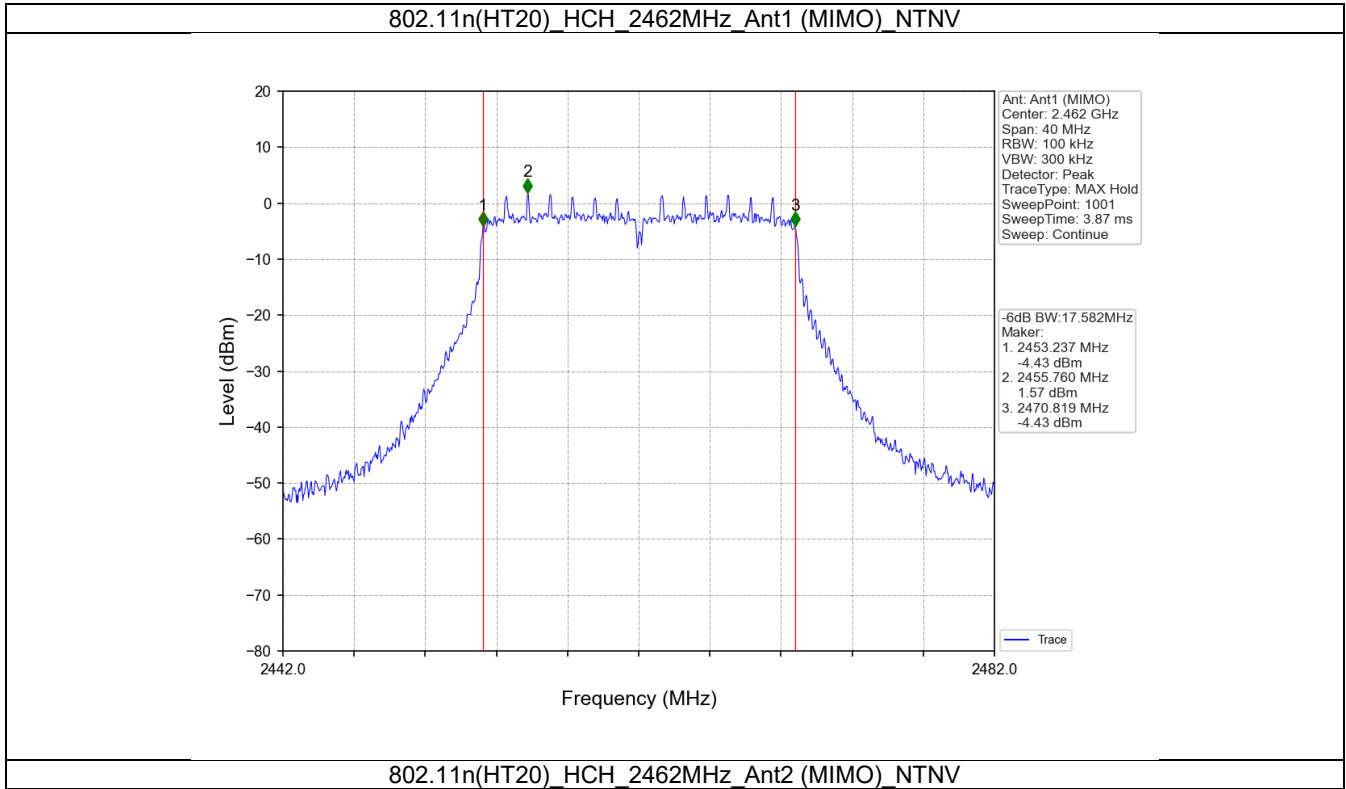
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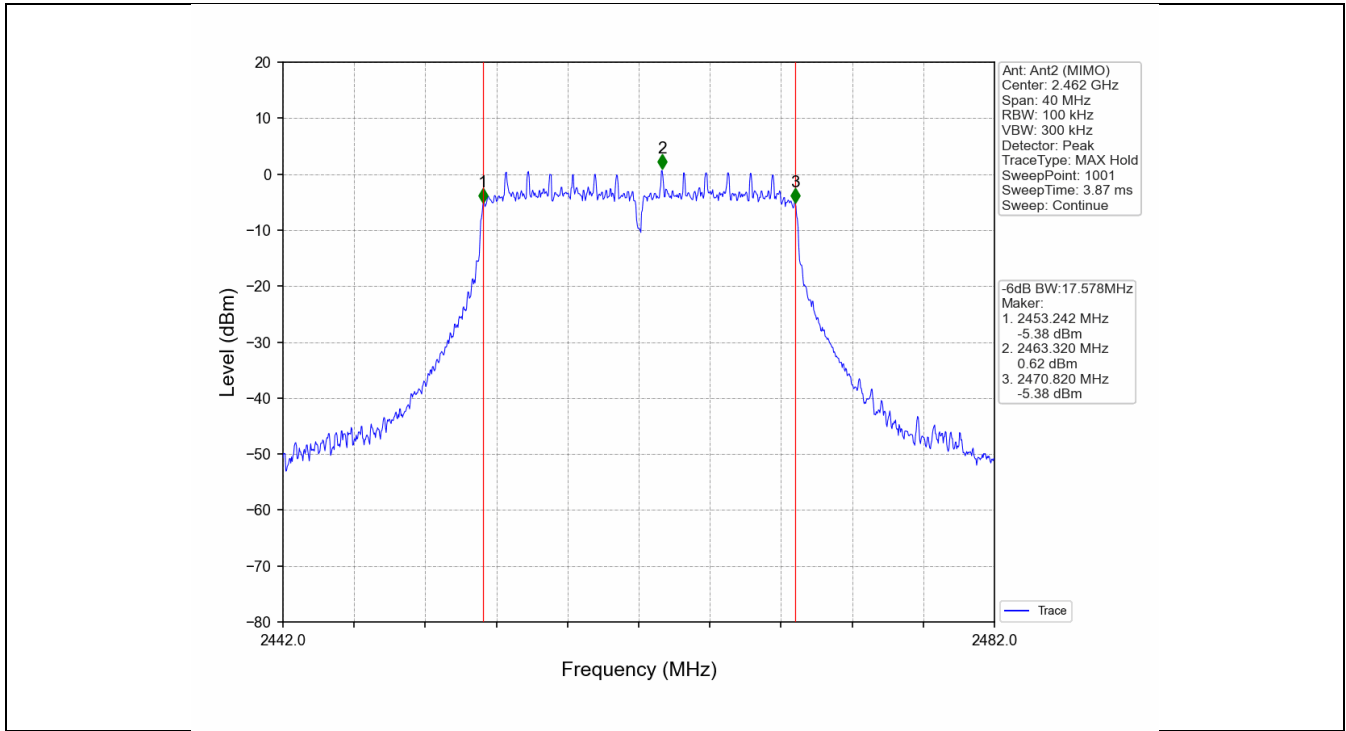
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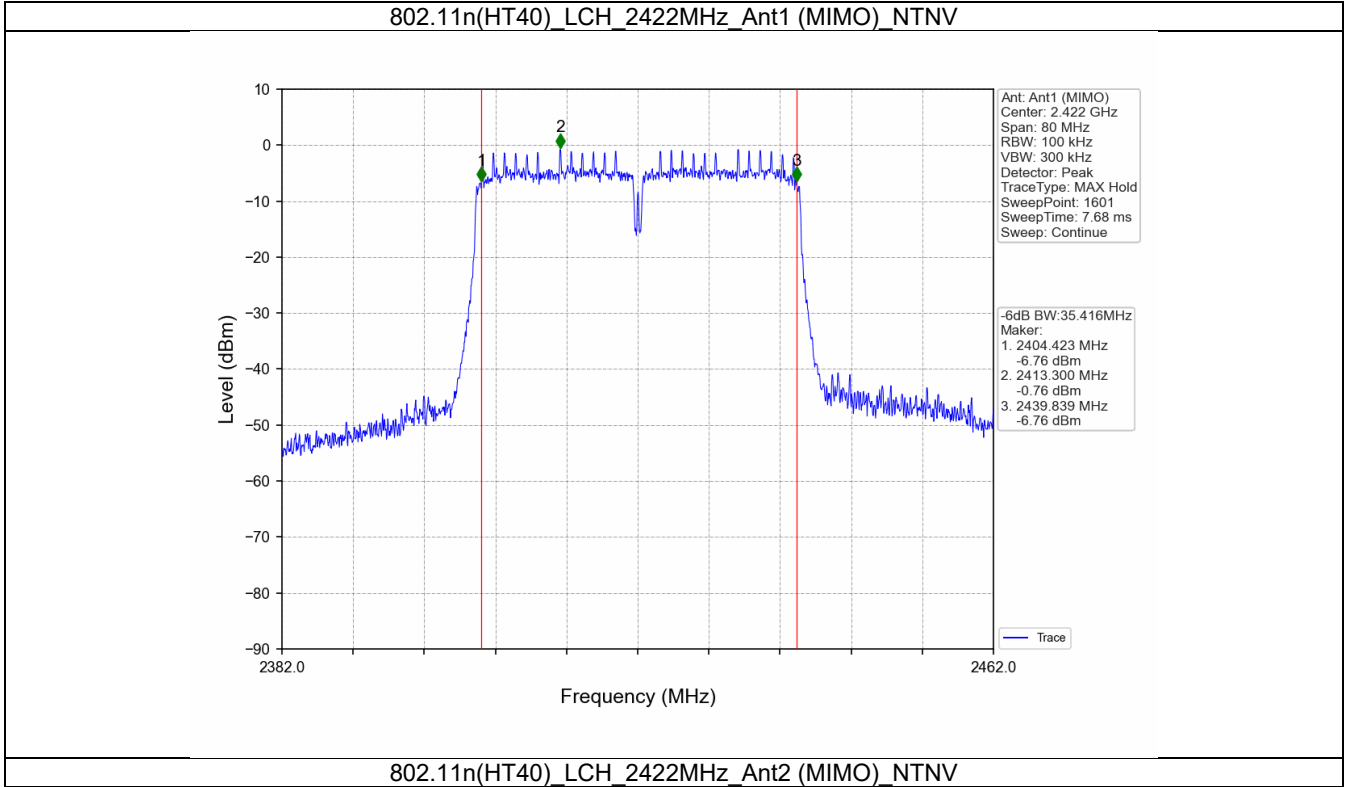


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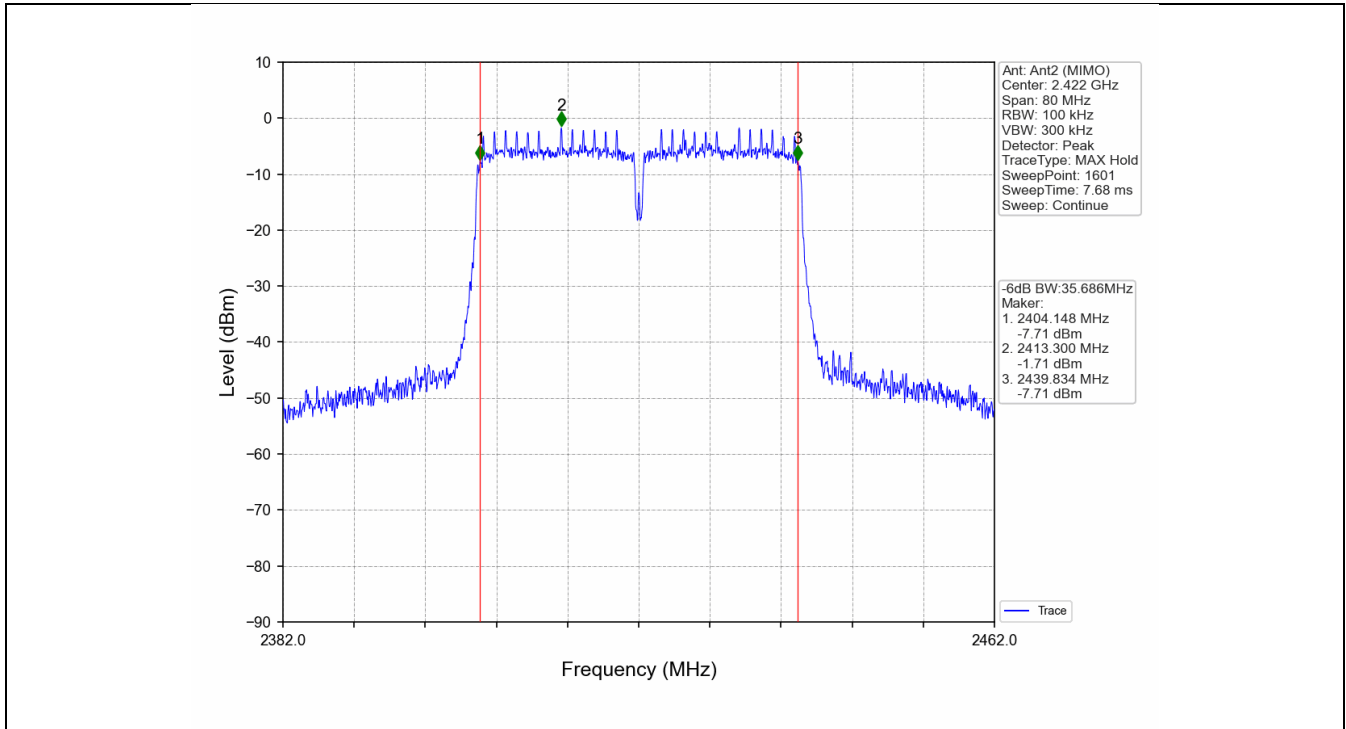
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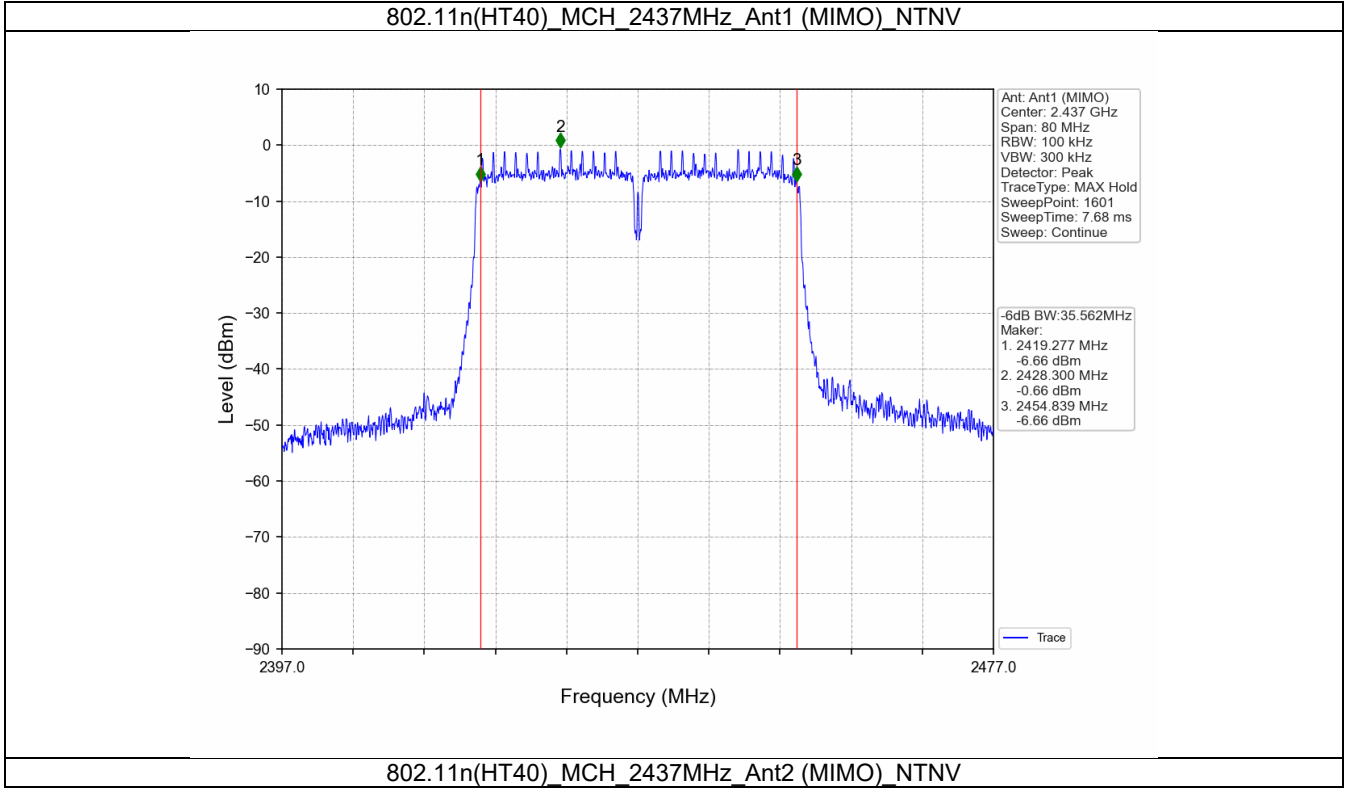
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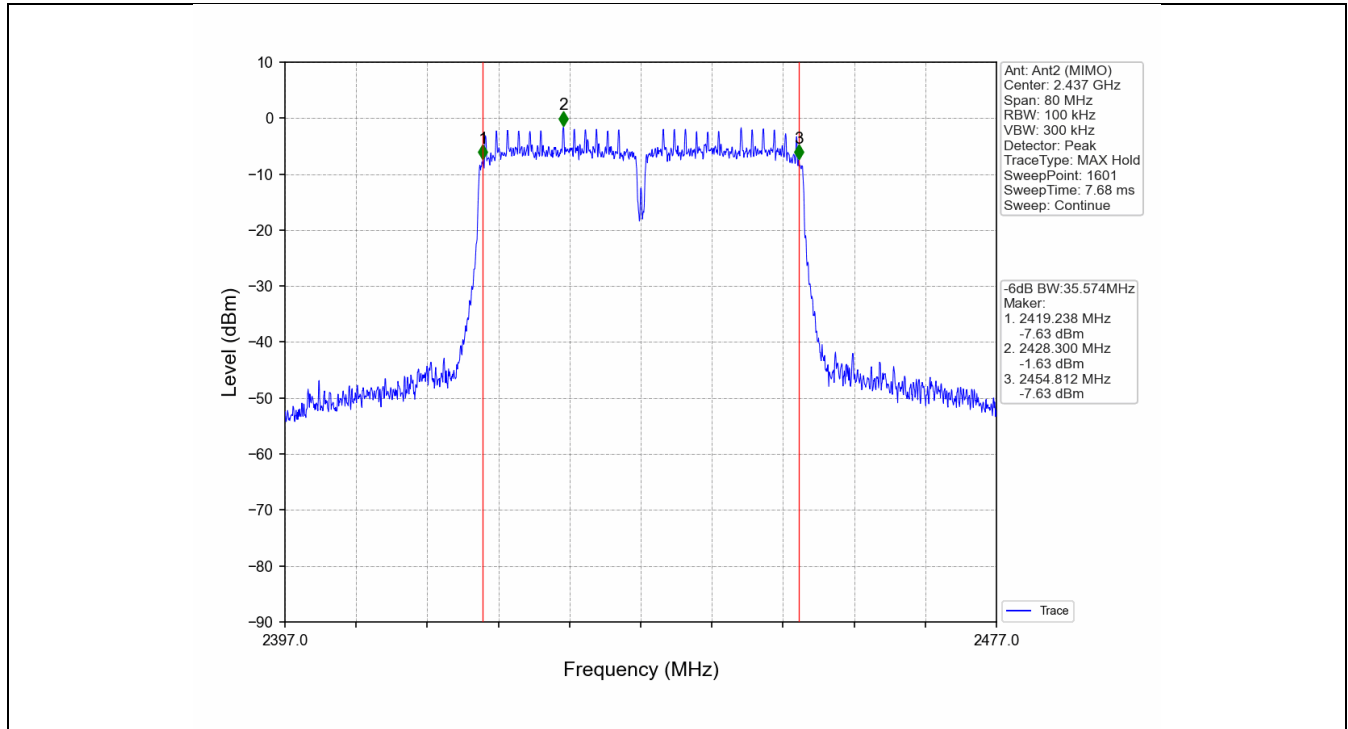
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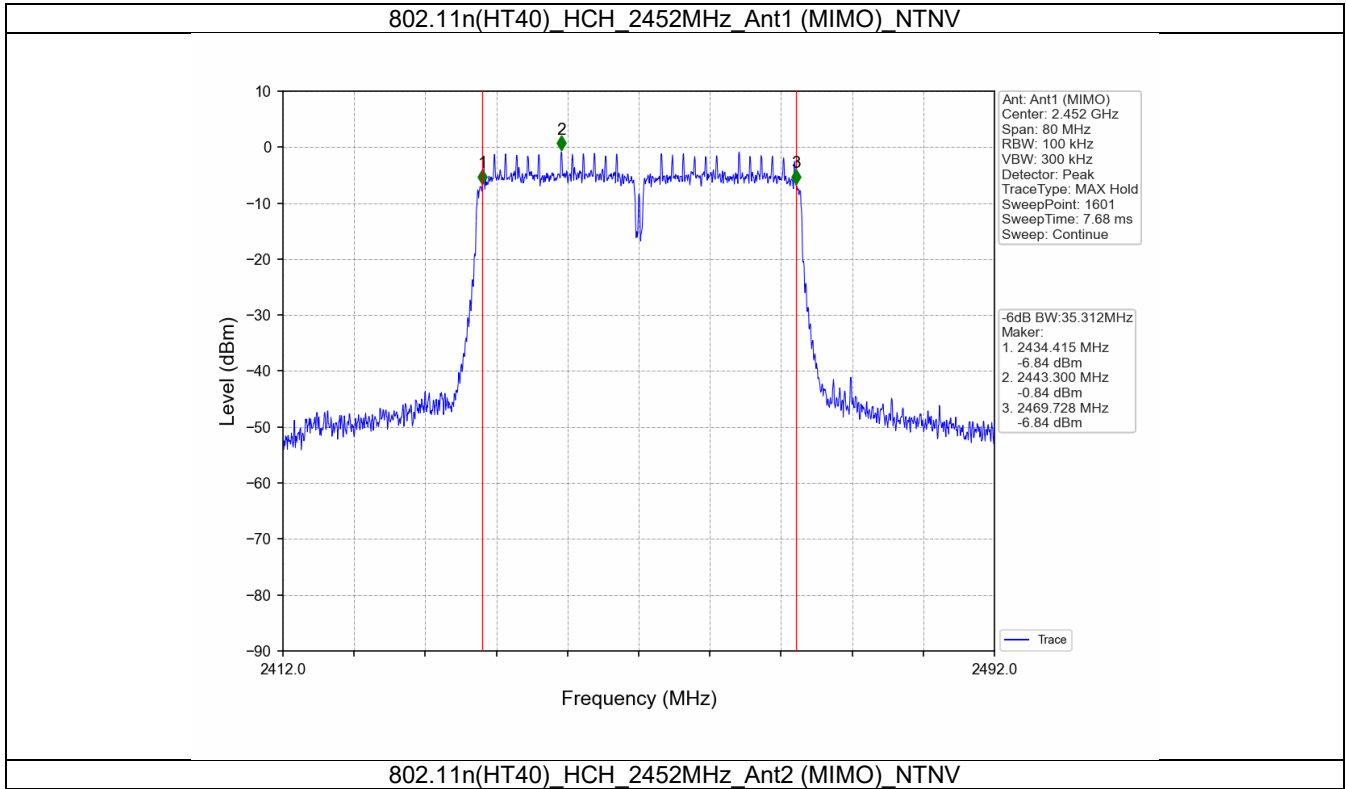
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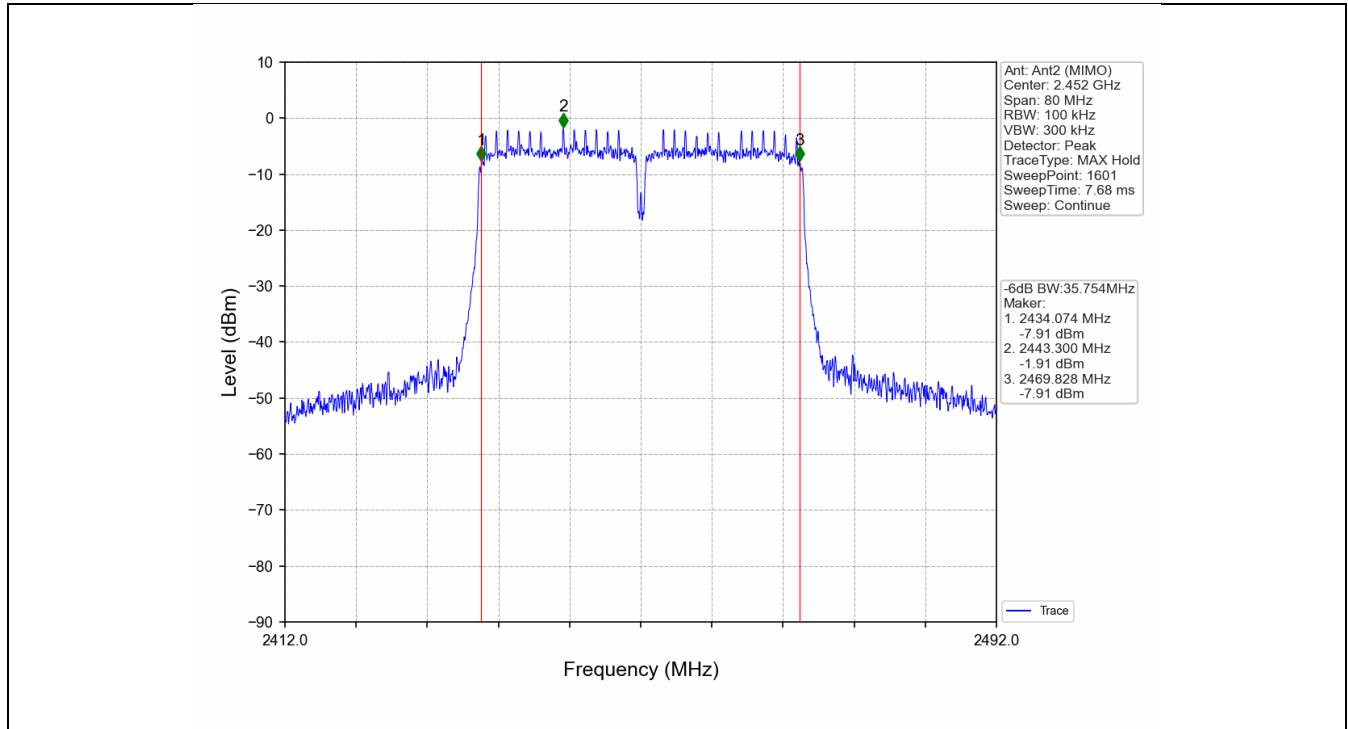
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 Center: 2.452 GHz  
 Span: 80 MHz  
 RBW: 100 kHz  
 VBW: 300 kHz  
 Detector: Peak  
 TraceType: MAX Hold  
 SweepPoint: 1601  
 SweepTime: 7.68 ms  
 Sweep: Continue

-6dB BW:35.312MHz  
 Marker:  
 1. 2434.415 MHz  
 -6.84 dBm  
 2. 2443.300 MHz  
 -0.84 dBm  
 3. 2469.728 MHz  
 -6.84 dBm



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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	19.54	17.89	/	<=30	Pass
		2437	19.21	17.89	/	<=30	Pass
		2462	18.17	17.48	/	<=30	Pass
802.11g	SISO	2412	23.45	22.92	/	<=30	Pass
		2437	22.71	23.00	/	<=30	Pass
		2462	22.62	22.68	/	<=30	Pass
802.11n (HT20)	MIMO	2412	20.68	19.66	23.21	<=30	Pass
		2437	20.67	19.70	23.22	<=30	Pass
		2462	20.56	19.47	23.06	<=30	Pass
802.11n (HT40)	MIMO	2422	21.29	20.31	23.84	<=30	Pass
		2437	21.20	20.28	23.77	<=30	Pass
		2452	21.13	20.20	23.70	<=30	Pass

Note1: Antenna Gain: Ant1: 1.19dBi; Ant2: 2.62dBi;  
Note2: Directional Gain: 4.94dBi

### 4. Maximum Power Spectral Density

#### 4.1 PSD

##### 4.1.1 Test Result

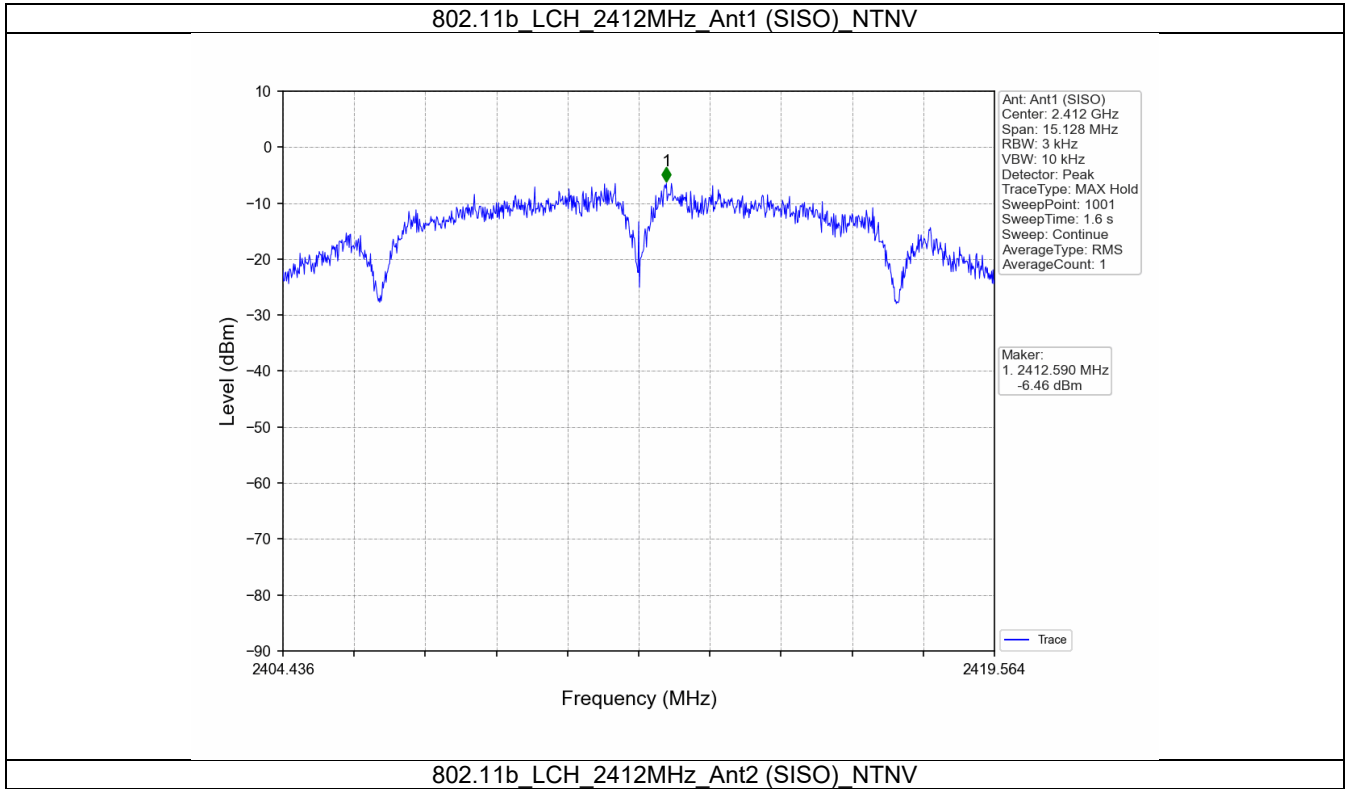
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			Ant1	Ant2	MIMO	Limit	
802.11b	SISO	2412	-6.46	-7.69	/	<=8	Pass
		2437	-7.09	-6.30	/	<=8	Pass
		2462	-7.57	-7.43	/	<=8	Pass
802.11g	SISO	2412	-7.39	-9.93	/	<=8	Pass
		2437	-7.45	-9.85	/	<=8	Pass
		2462	-7.64	-9.80	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-10.82	-13.92	-9.90	<=8	Pass
		2437	-11.01	-12.98	-10.01	<=8	Pass
		2462	-11.11	-14.53	-10.14	<=8	Pass
802.11n (HT40)	MIMO	2422	-11.04	-16.17	-10.08	<=8	Pass
		2437	-11.02	-16.47	-10.04	<=8	Pass
		2452	-11.30	-15.96	-10.29	<=8	Pass

Note1: Antenna Gain: Ant1: 1.19dBi; Ant2: 2.62dBi;



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4.1.2 Test Graph



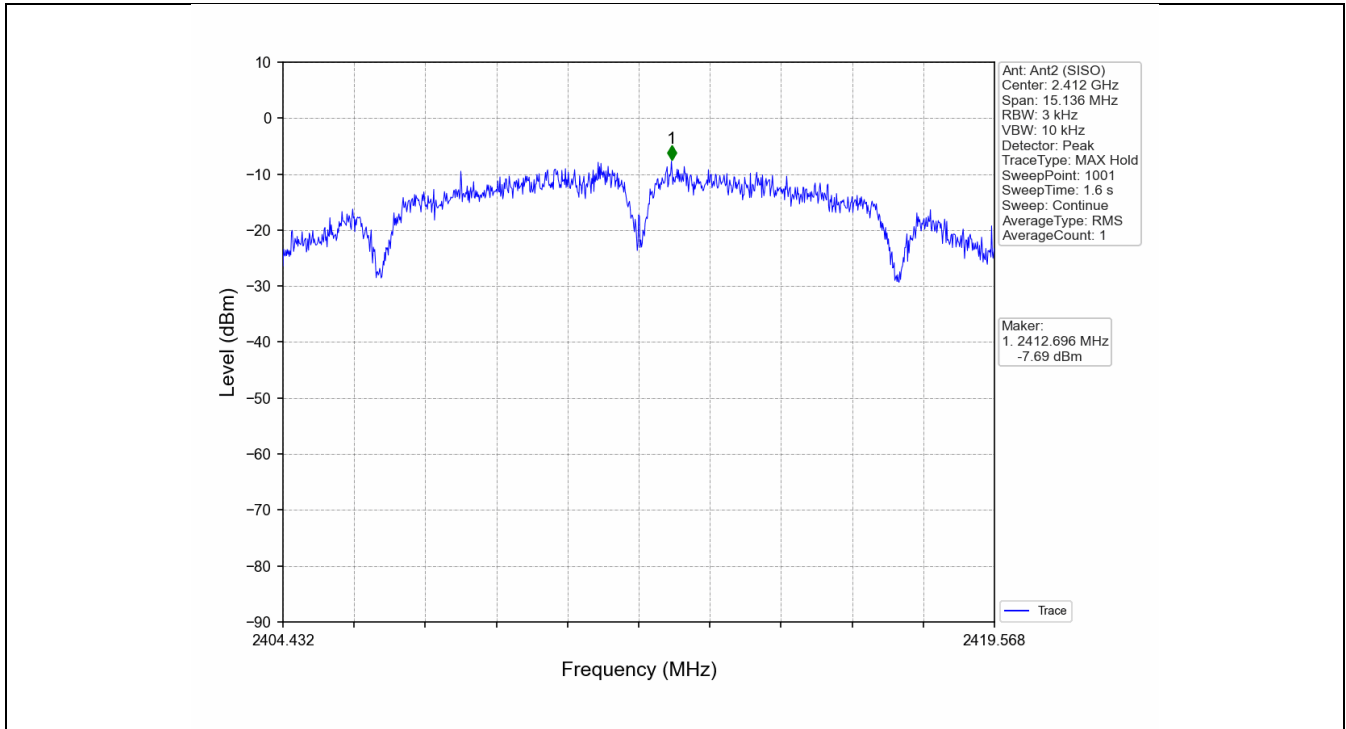
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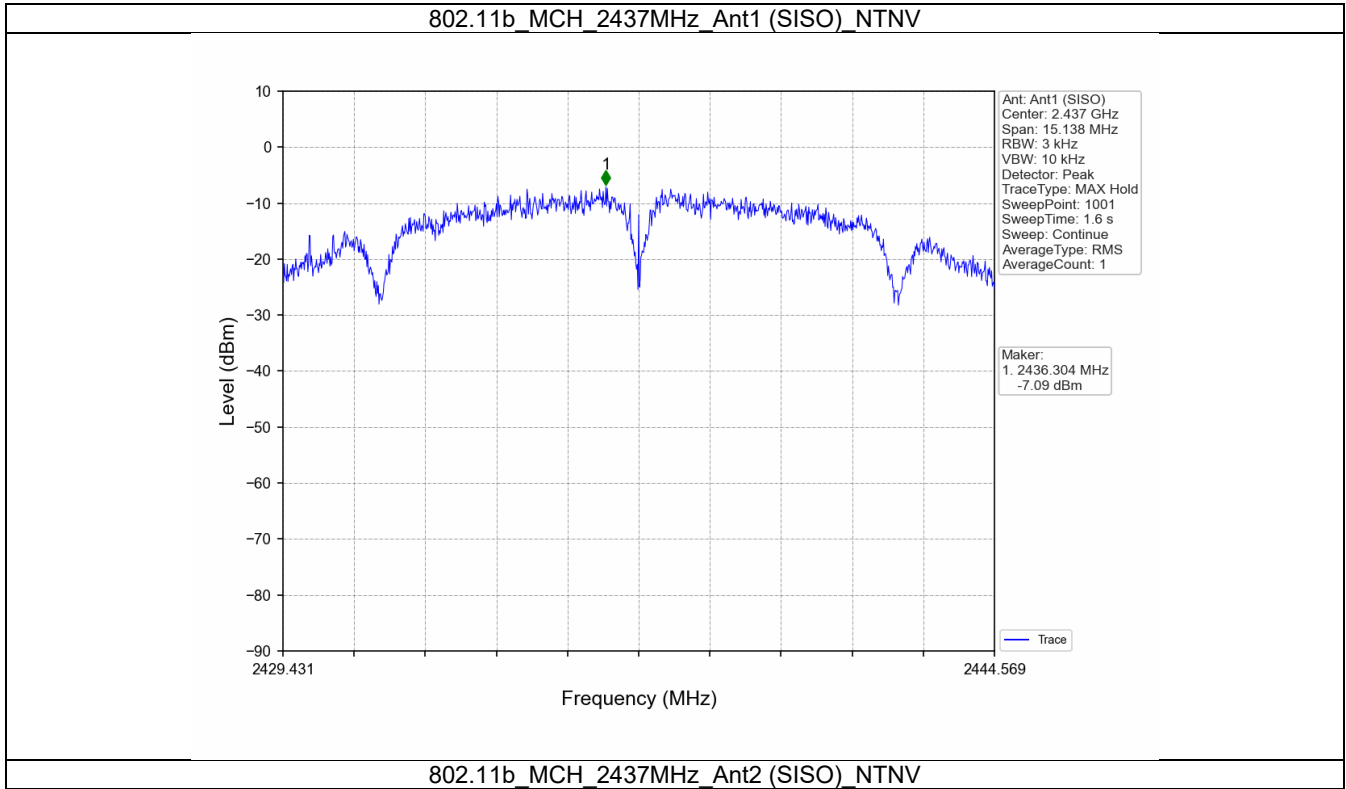
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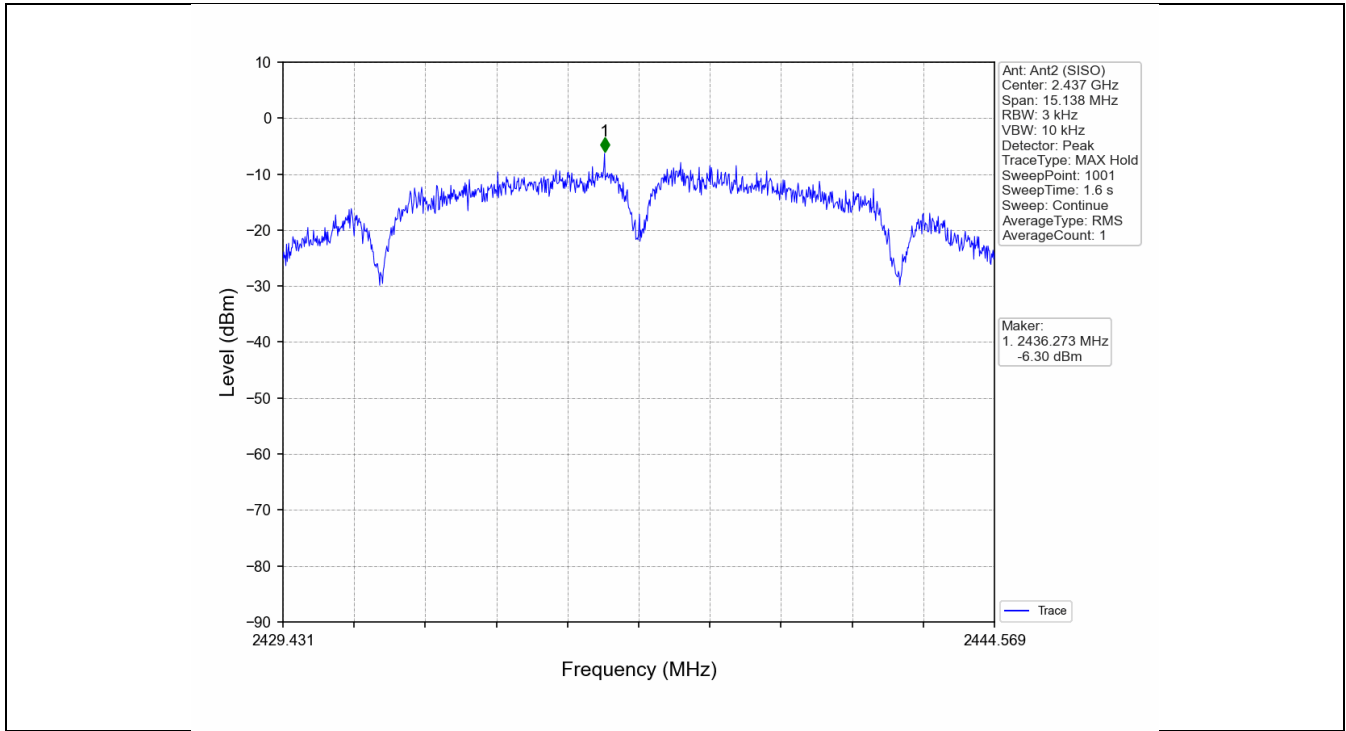
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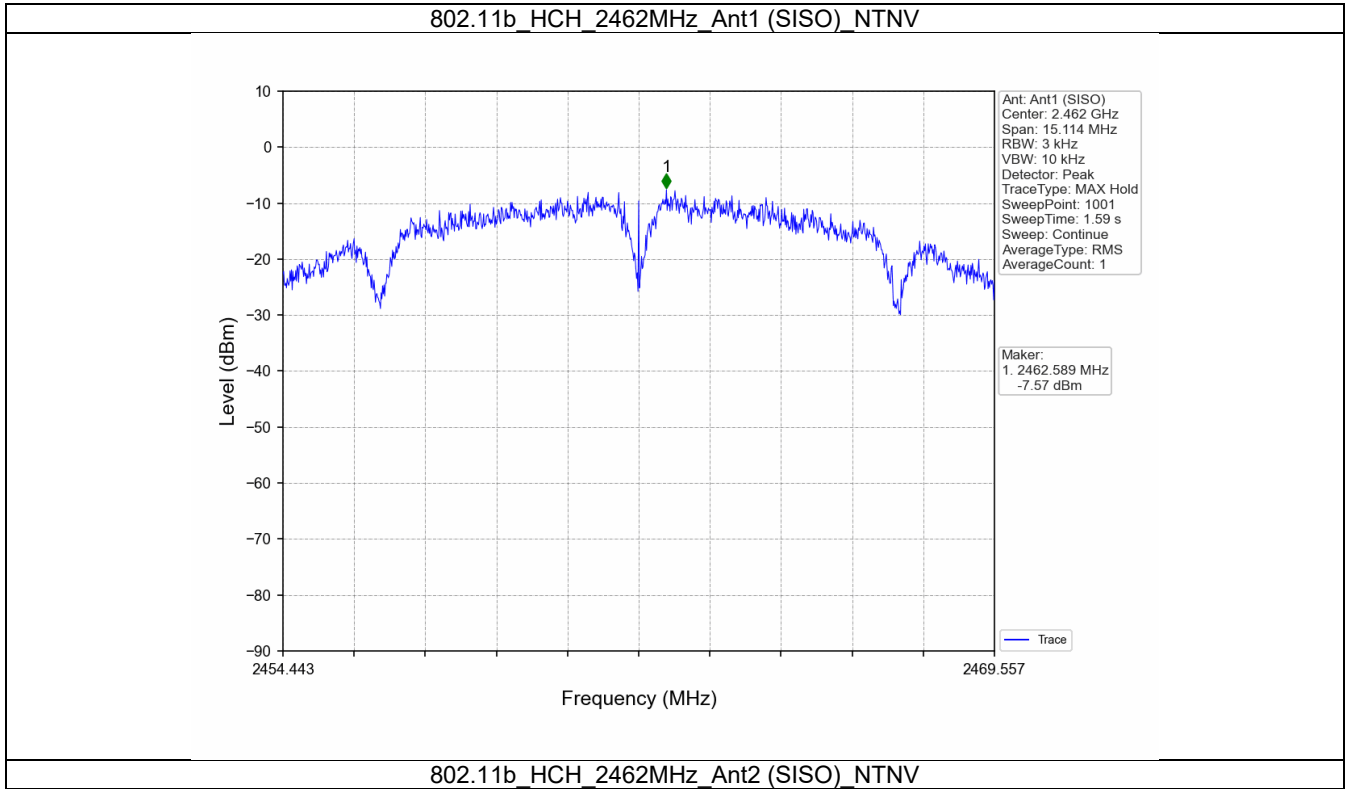




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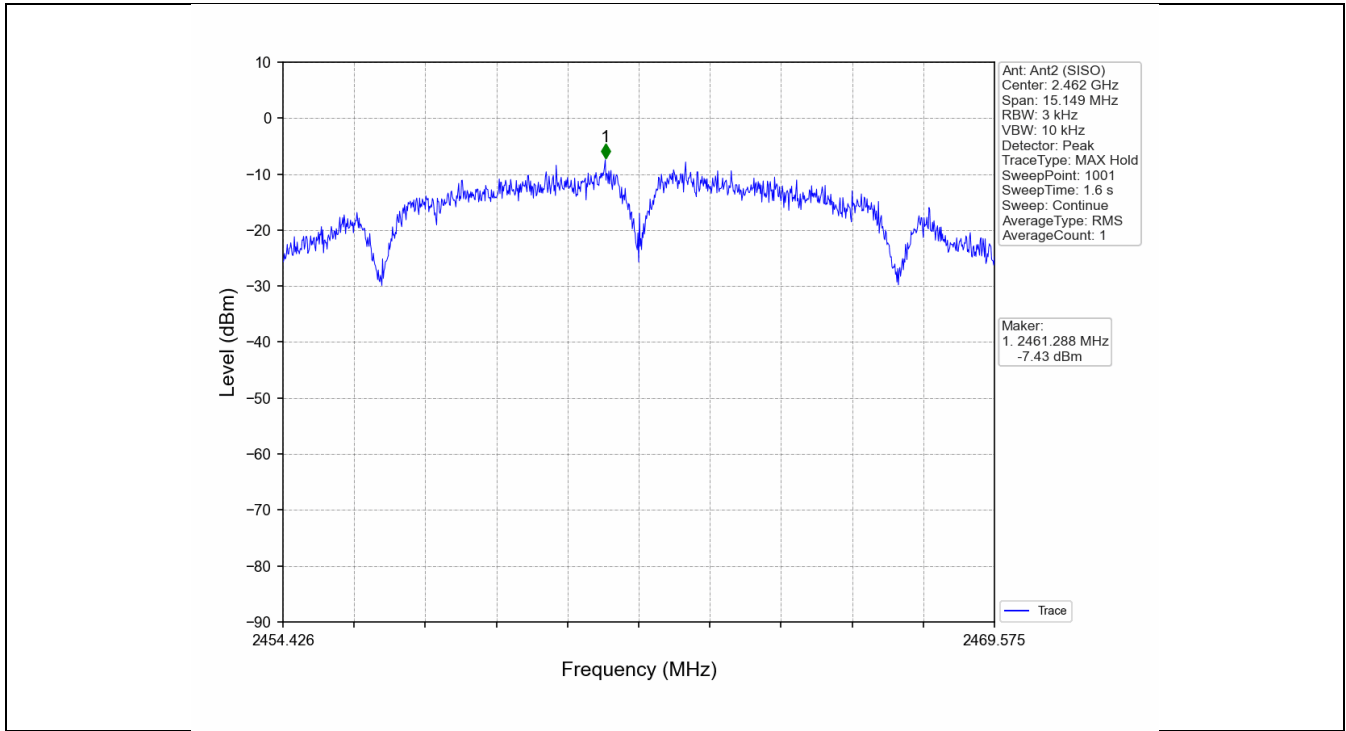
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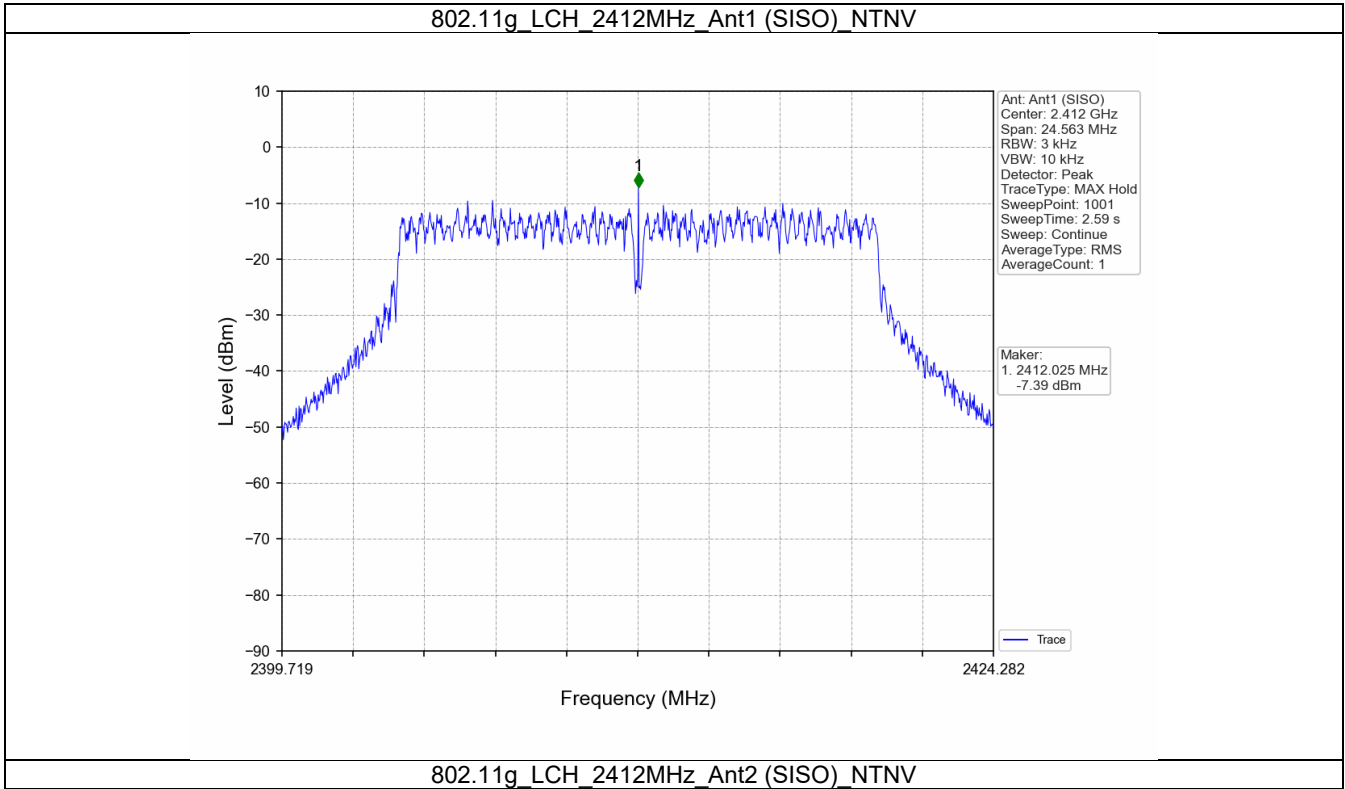
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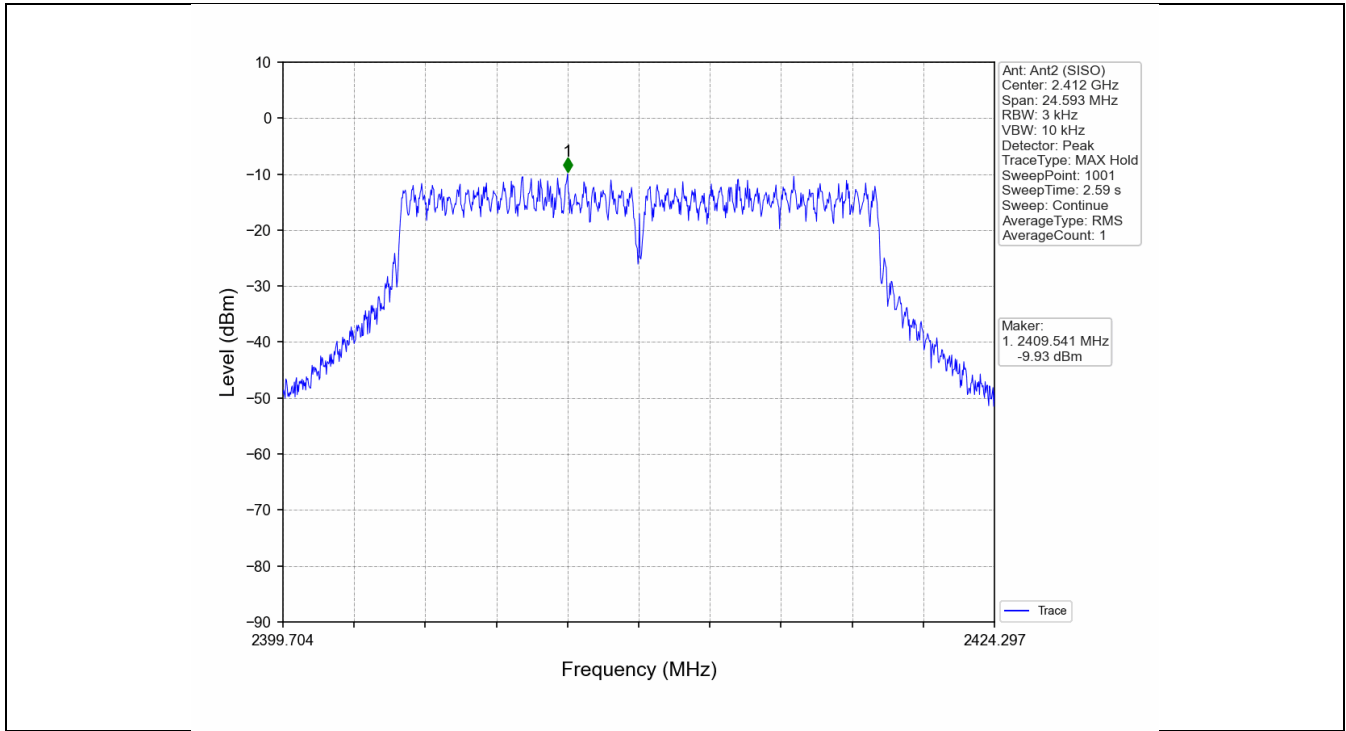
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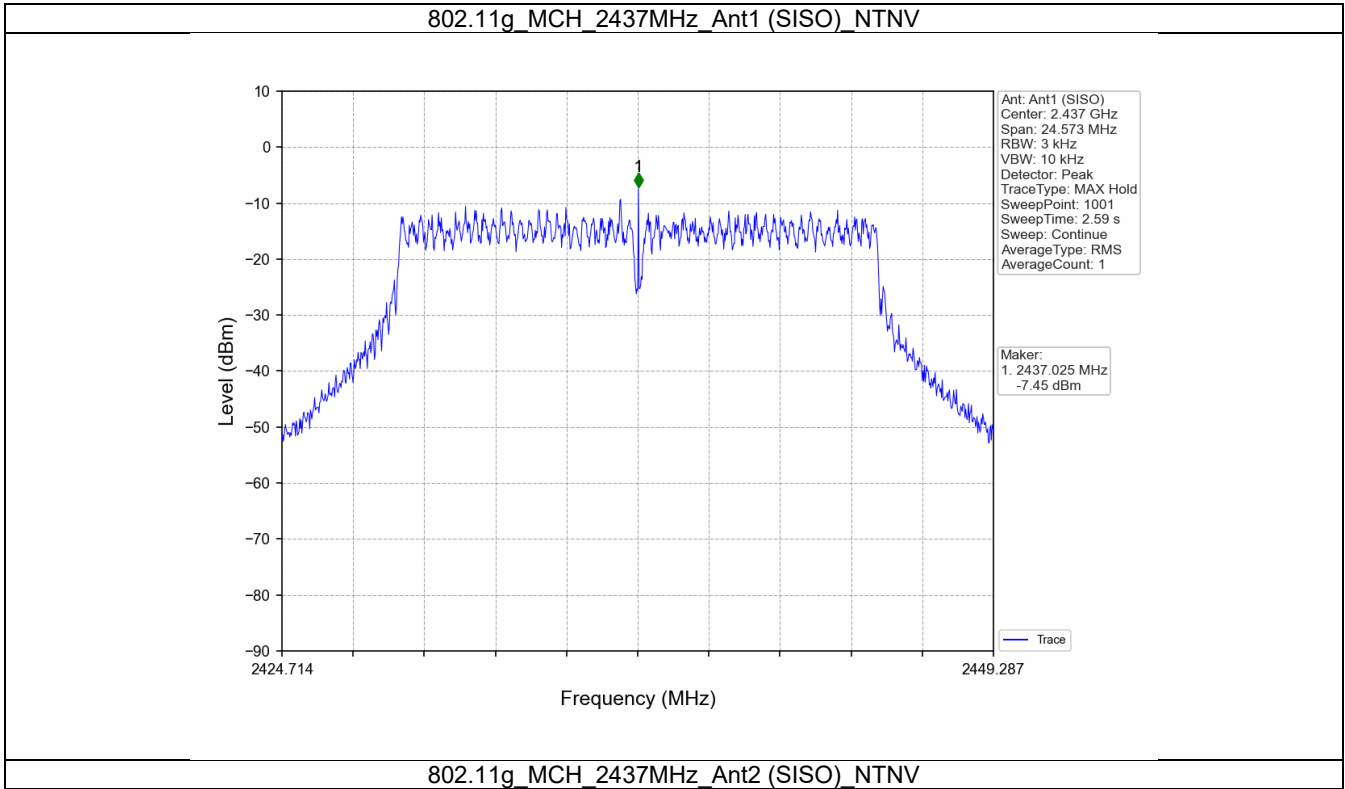
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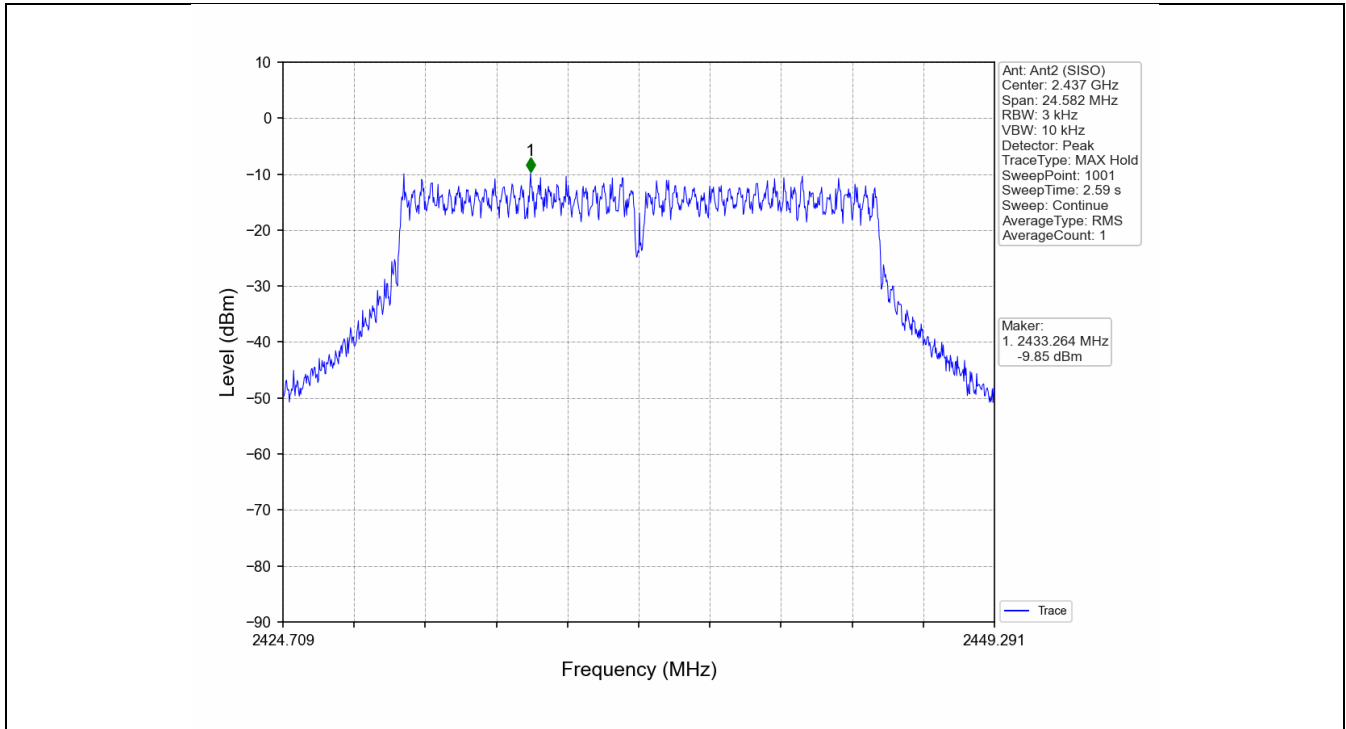
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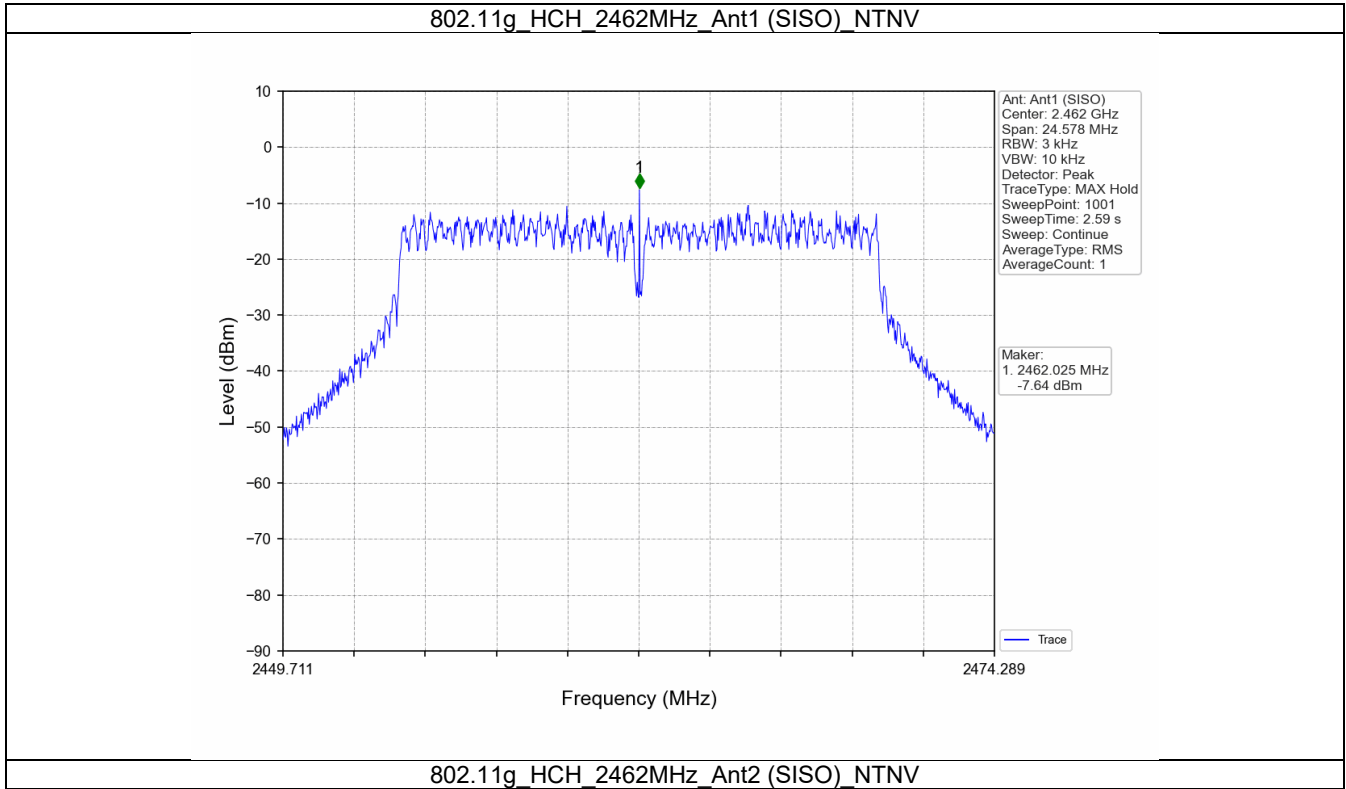
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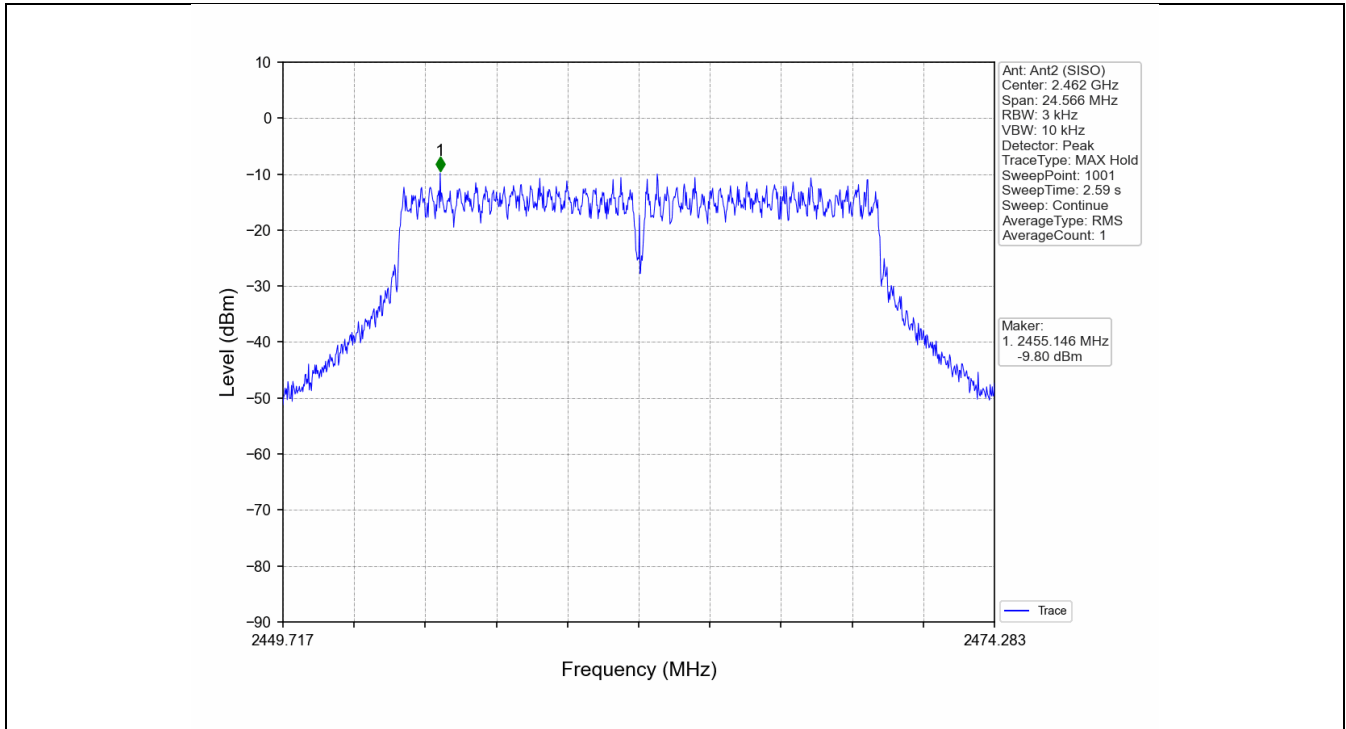




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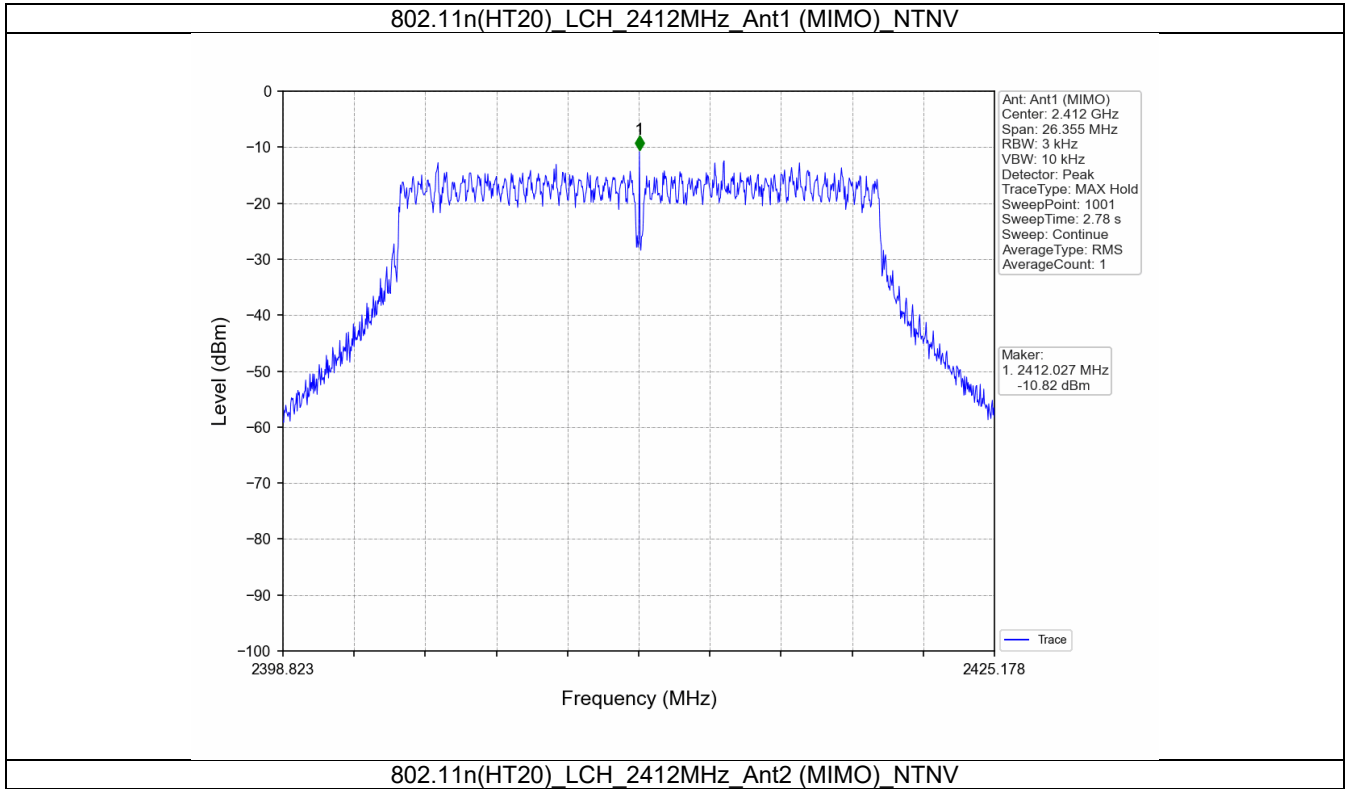
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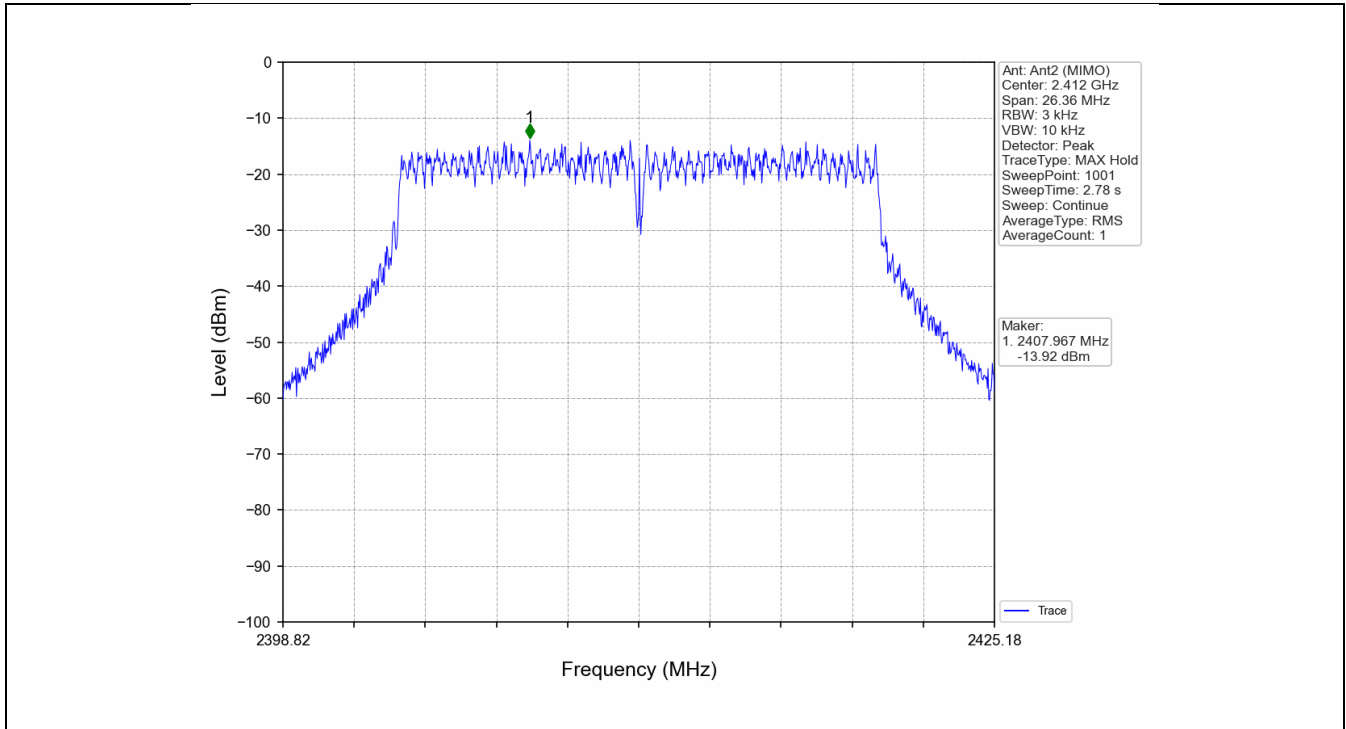
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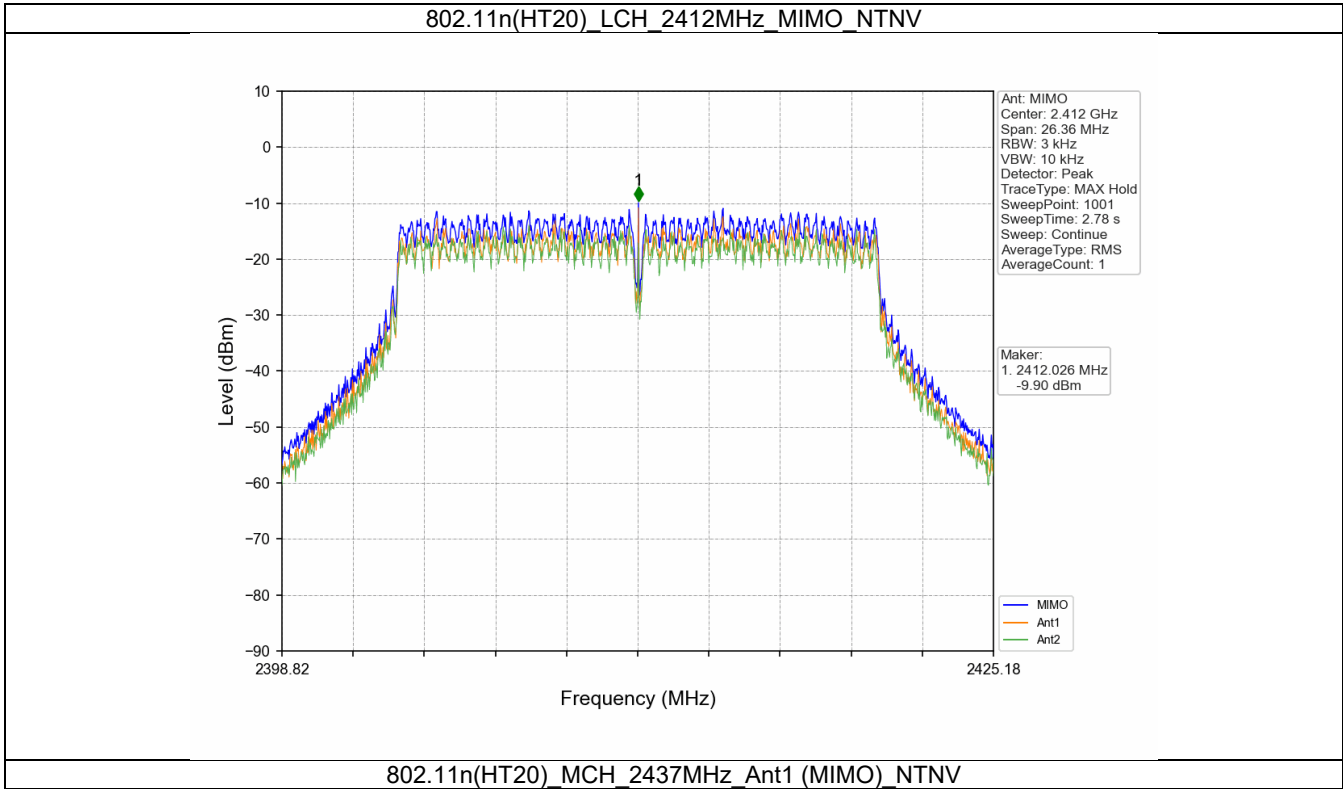
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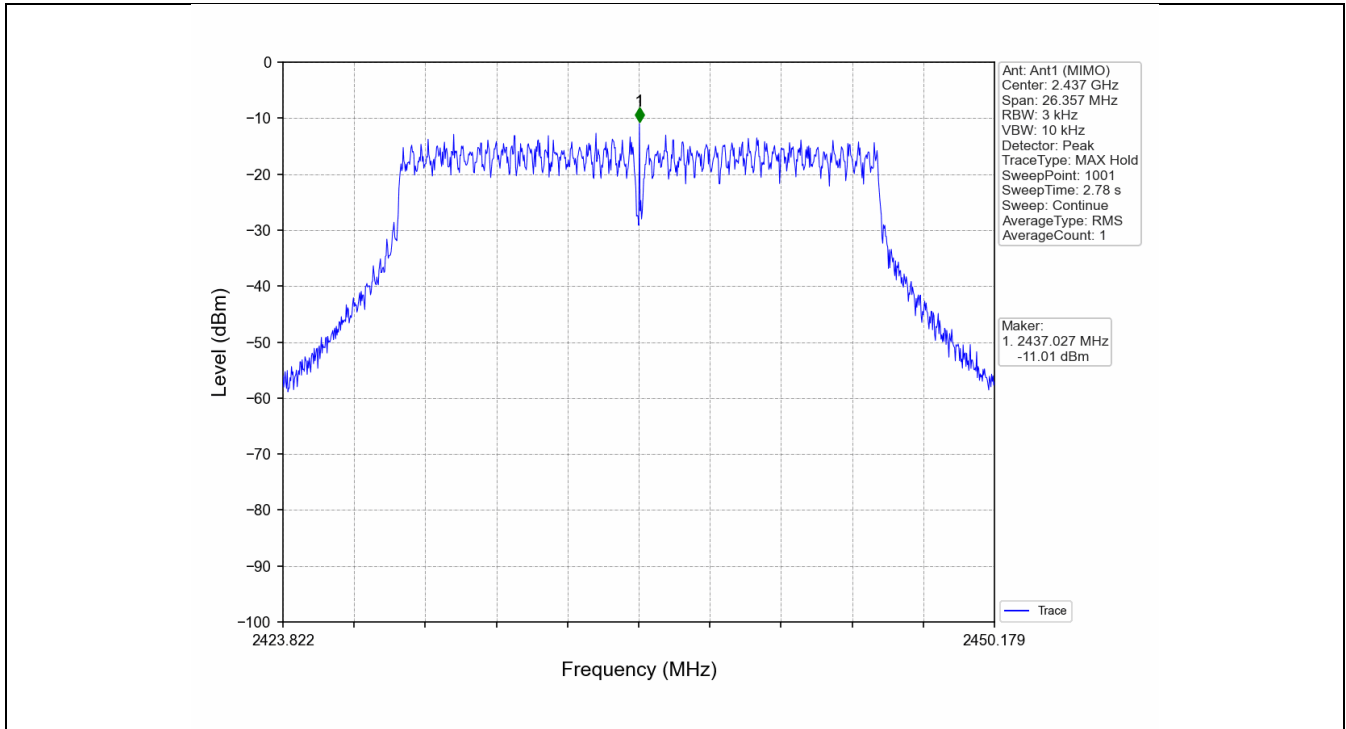
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