

## Appendix A for SHCR220200044201

## 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

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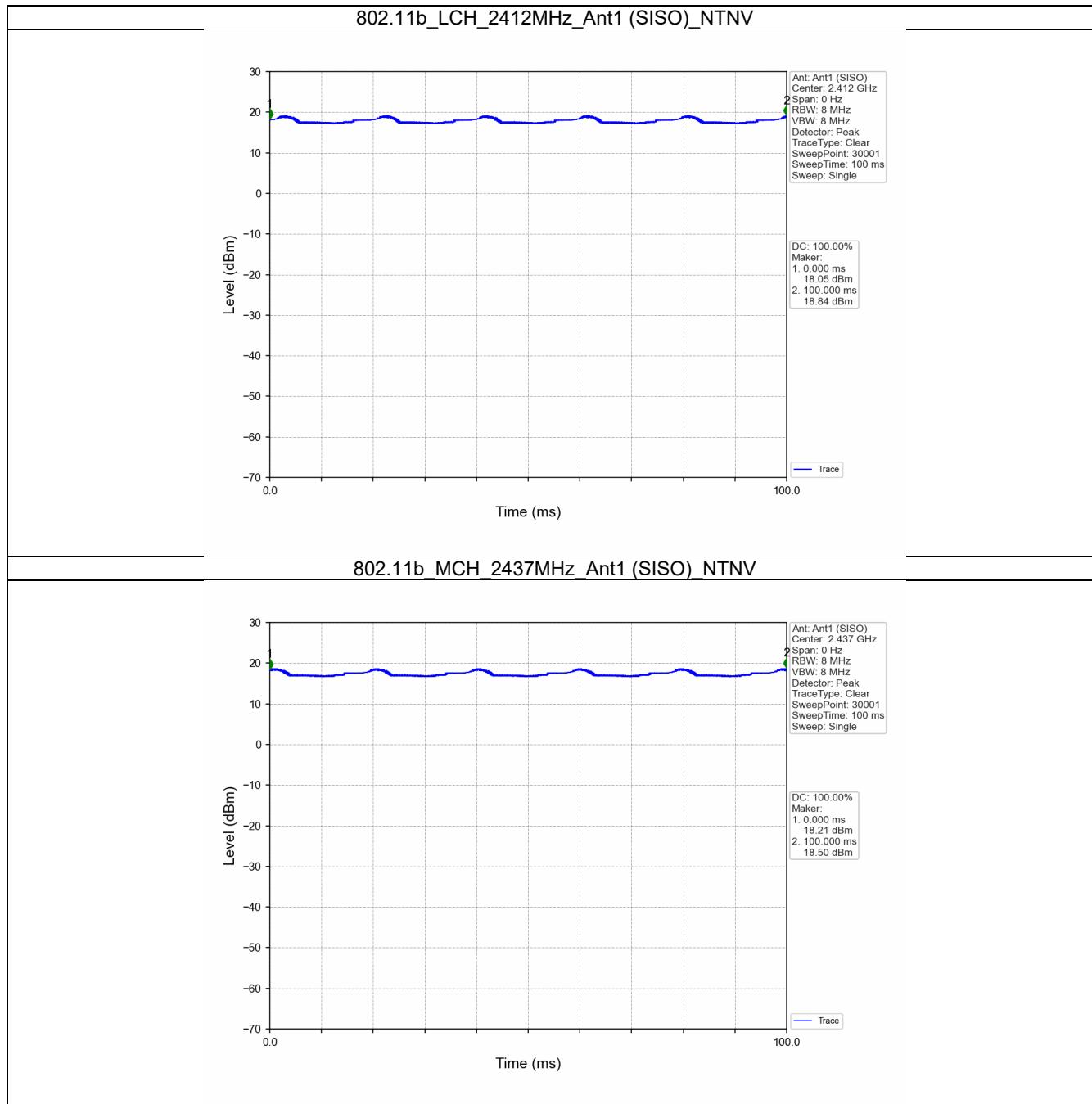


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## 1.1.2 Test Graph



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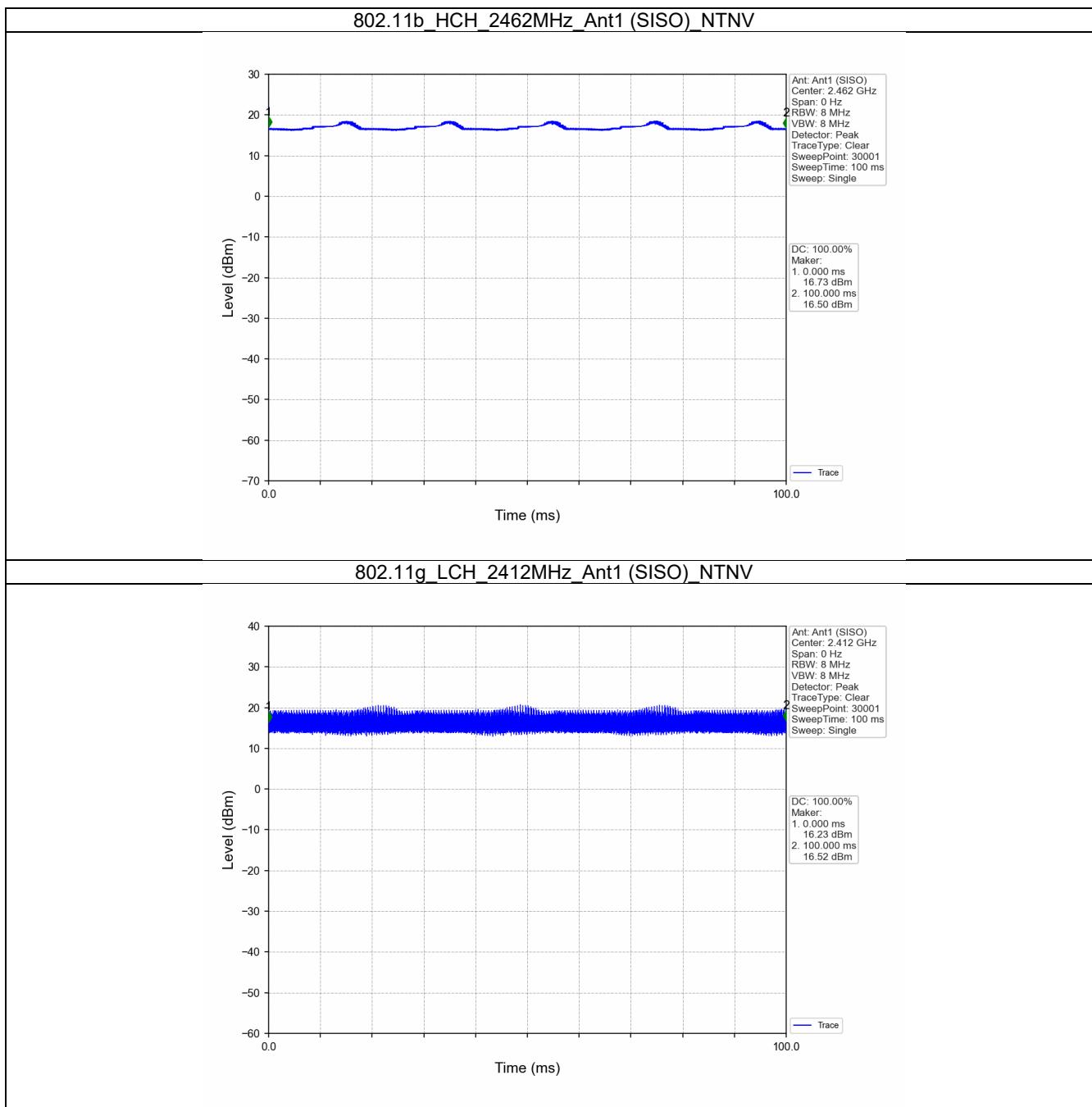
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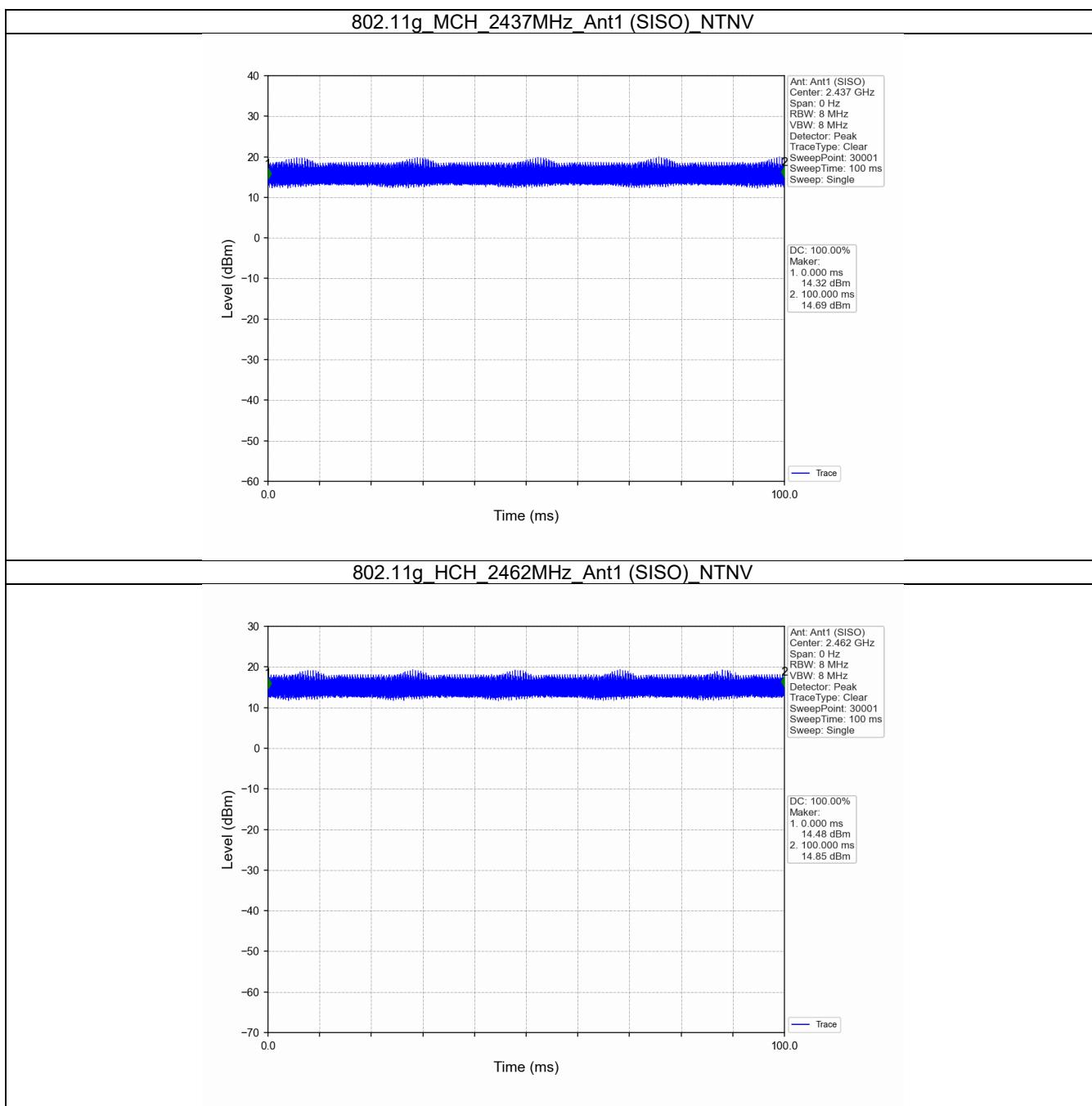
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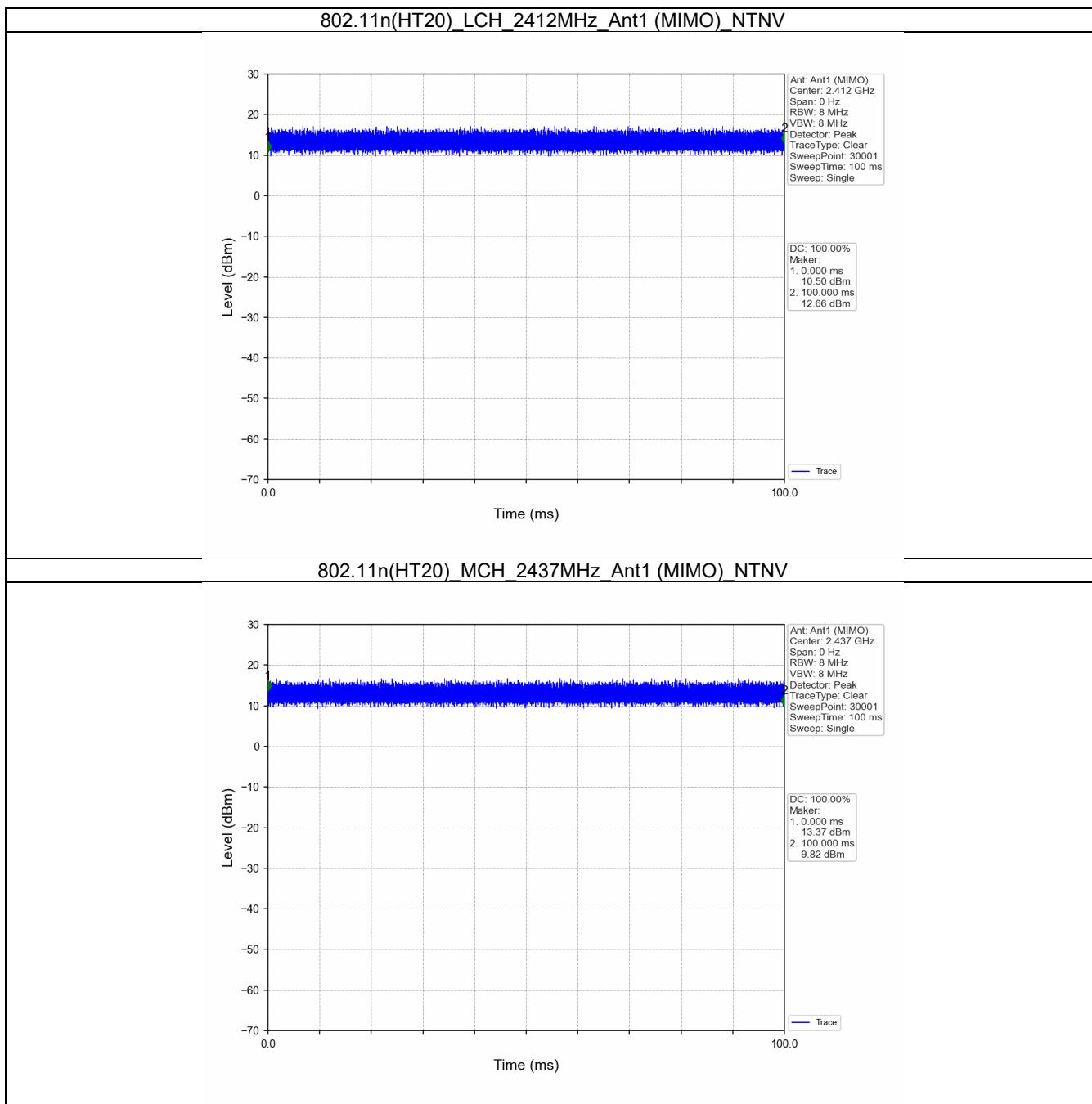


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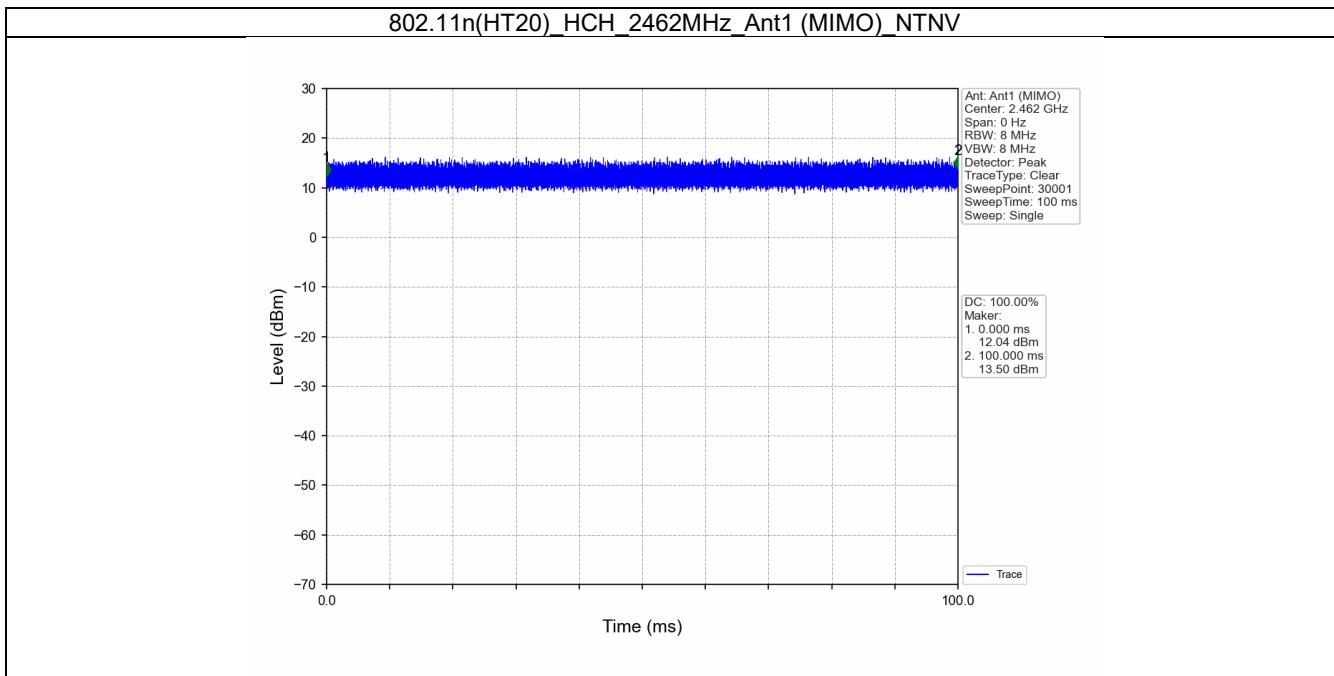
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## 2. Bandwidth

### 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	15.010		Pass
			2	14.997		Pass
		2437	1	15.030		Pass
			2	15.023		Pass
		2462	1	15.033		Pass
			2	15.021		Pass
		2412	1	17.410		Pass
			2	17.597		Pass
802.11g	SISO	2437	1	17.404		Pass
			2	17.611		Pass
		2462	1	17.400		Pass
			2	17.572		Pass
		2412	1	18.388		Pass
			2	18.425		Pass
		2437	1	18.390		Pass
			2	18.420		Pass
802.11n (HT20)	MIMO	2462	1	18.381		Pass
			2	18.418		Pass

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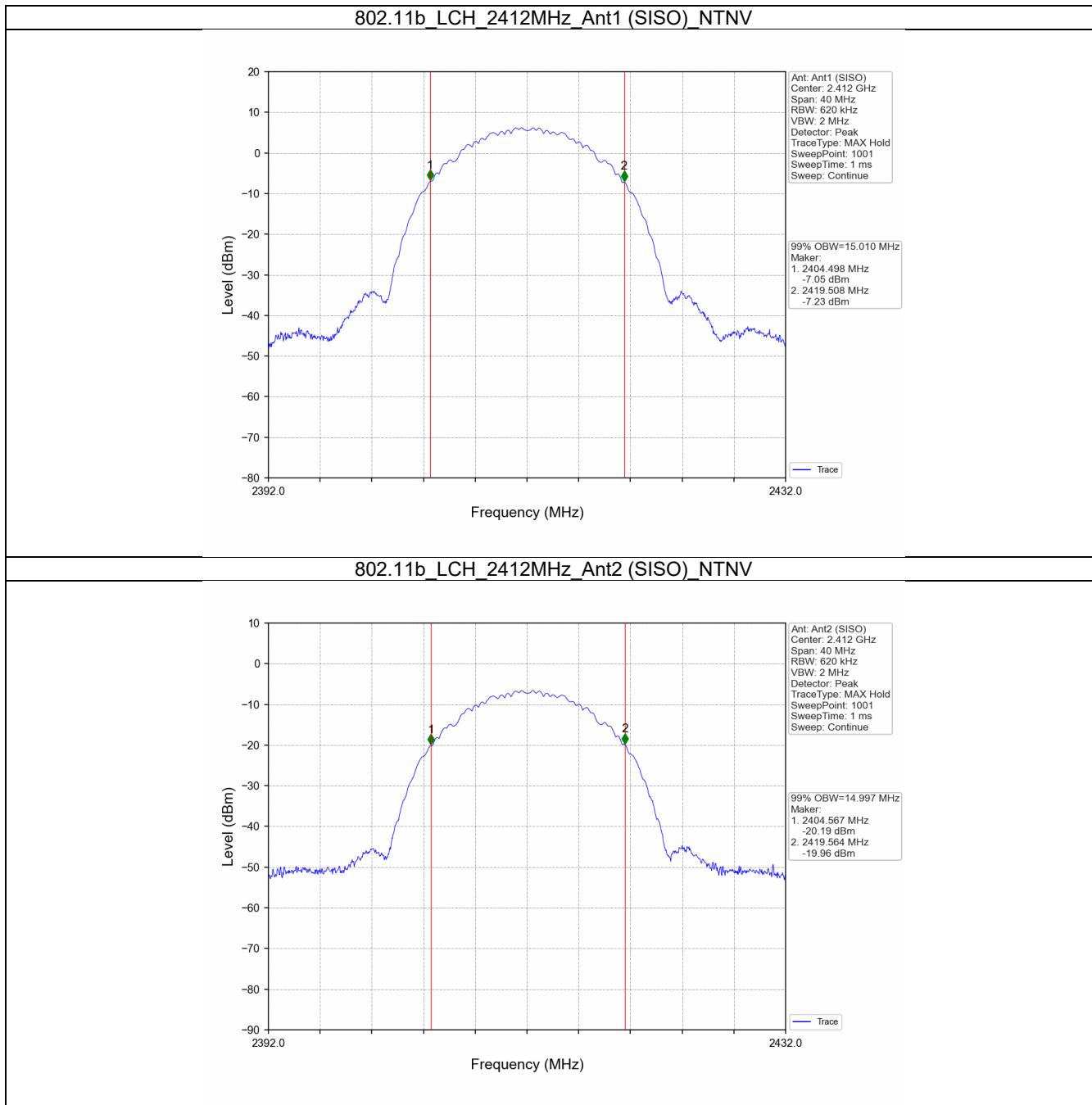


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## 2.1.2 Test Graph



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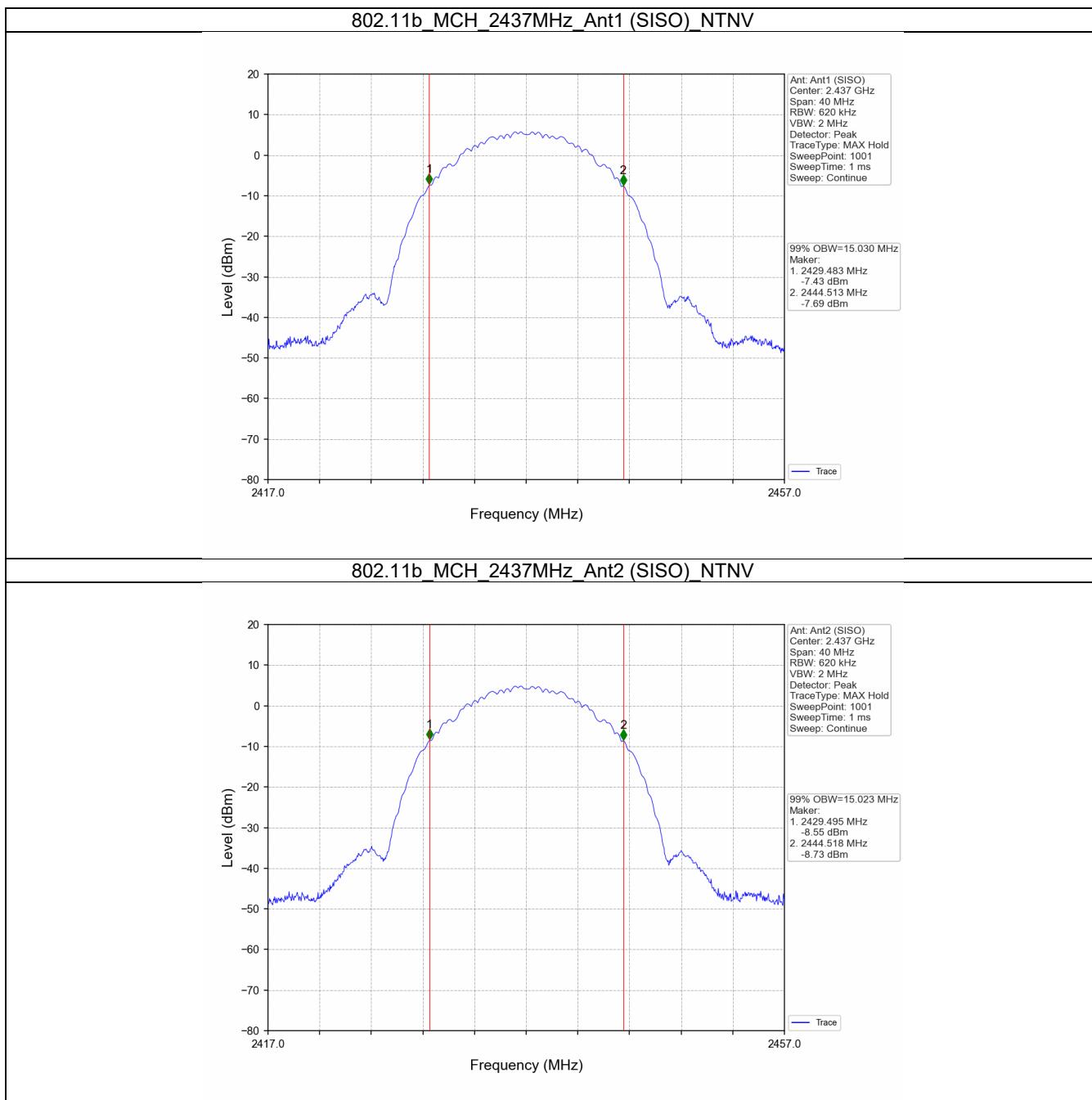
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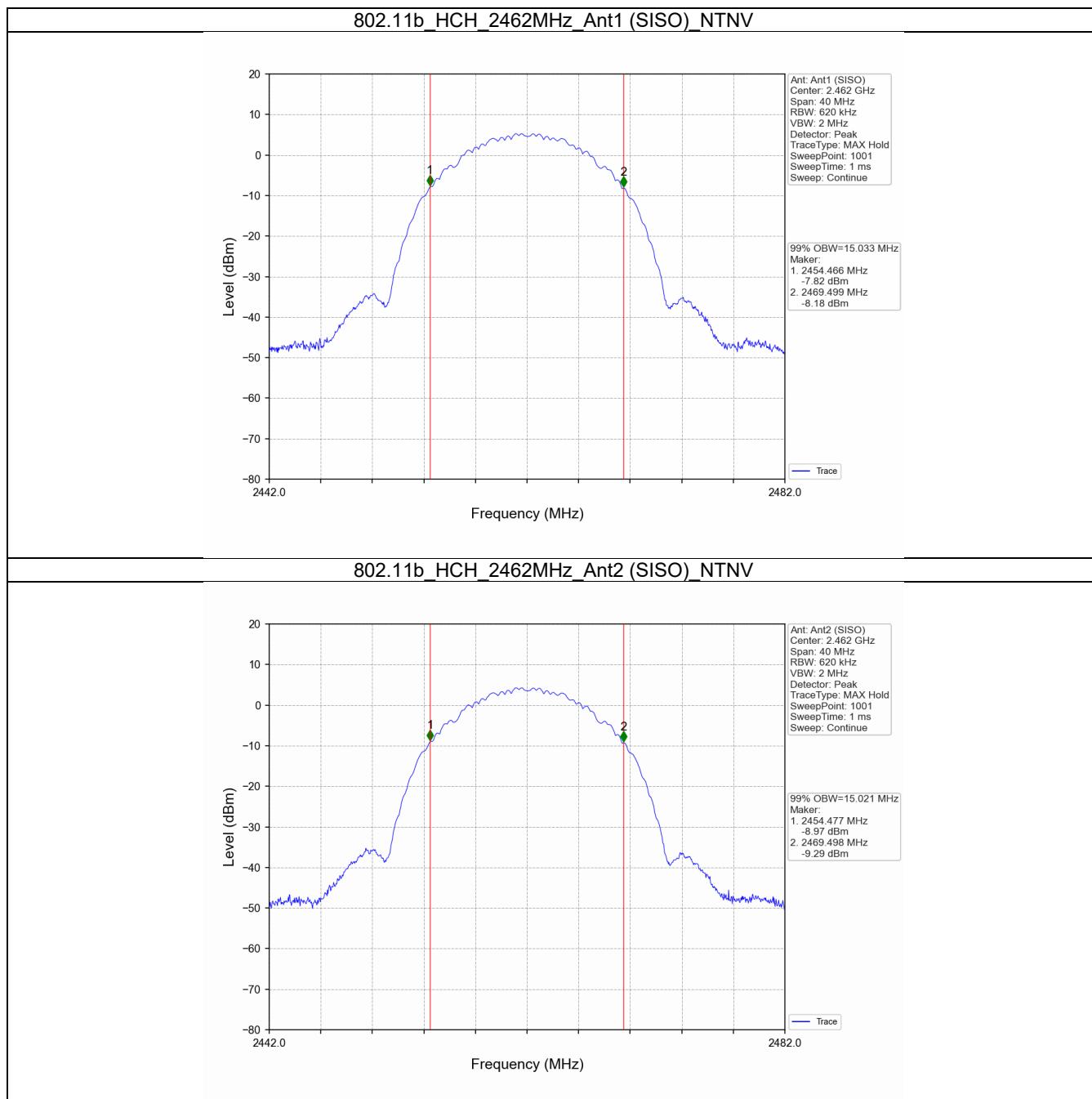
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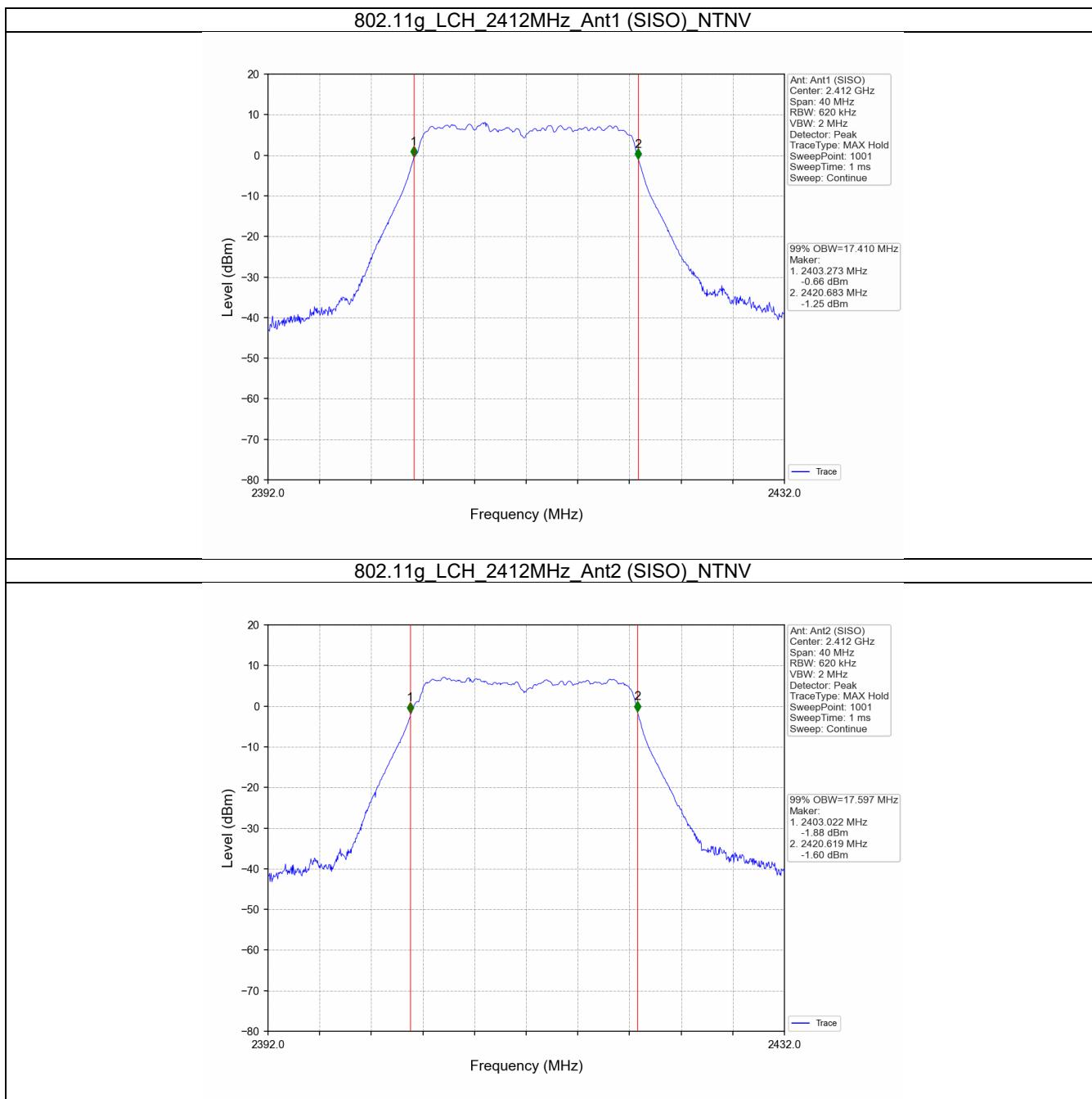
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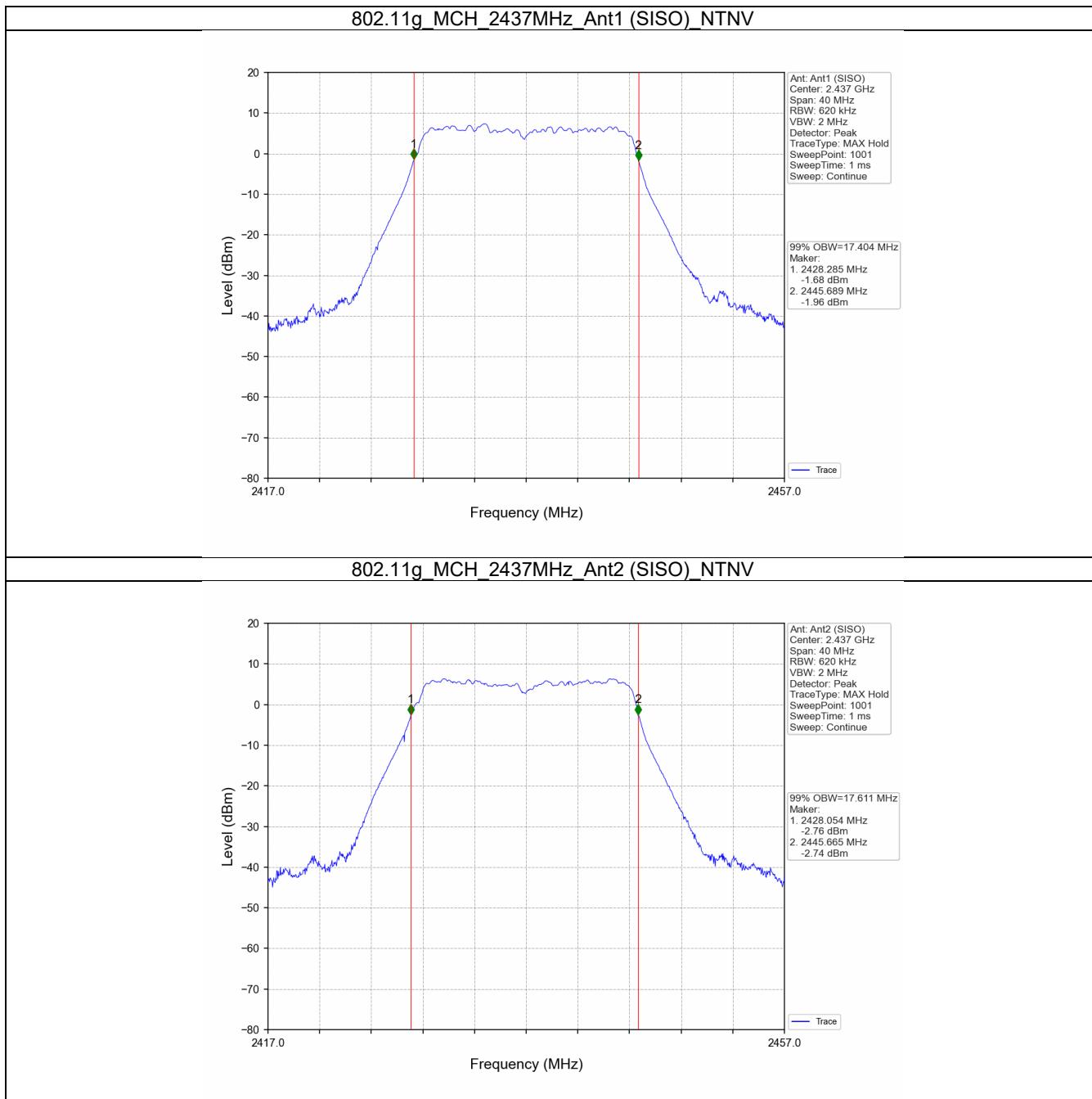
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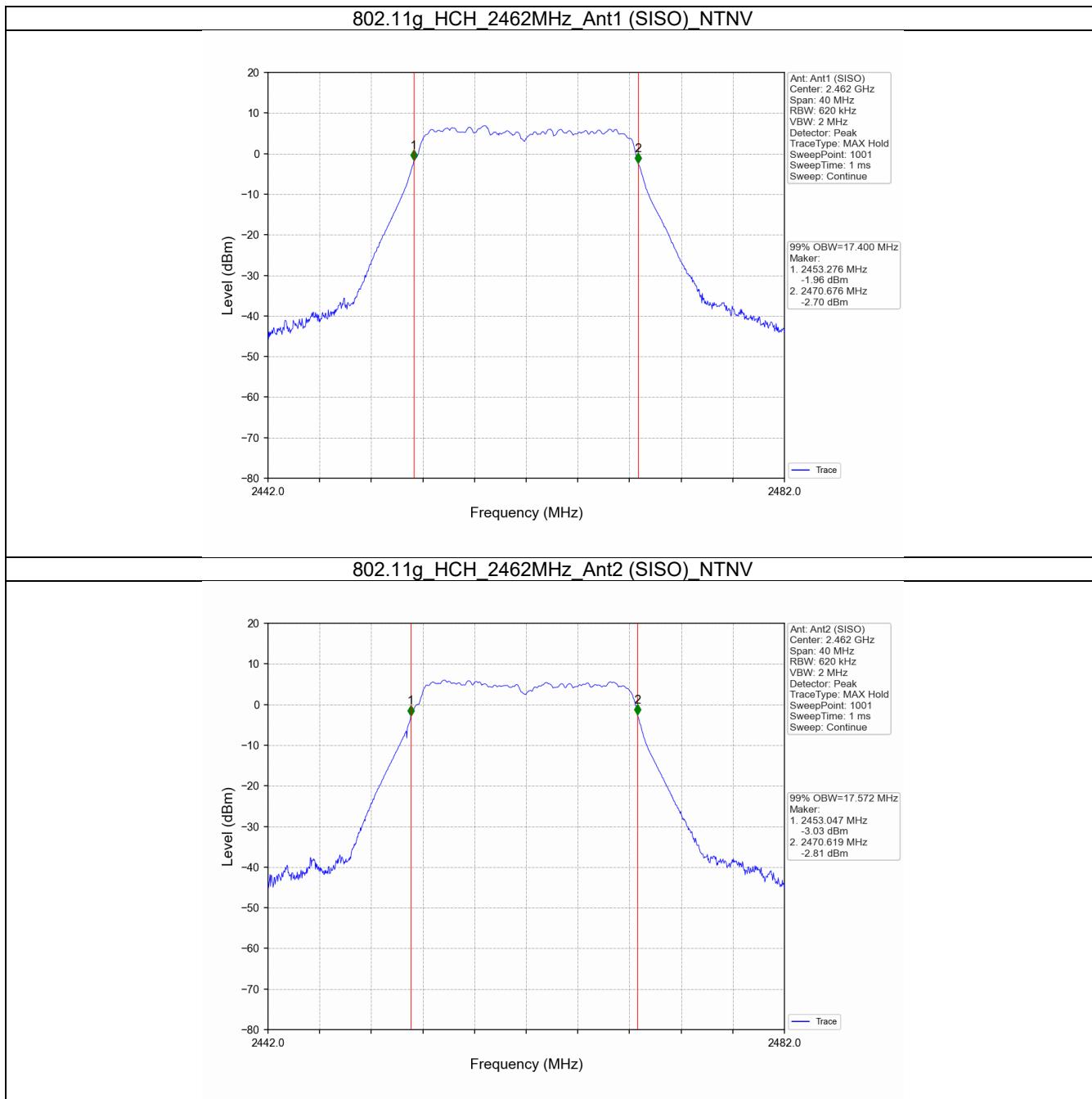
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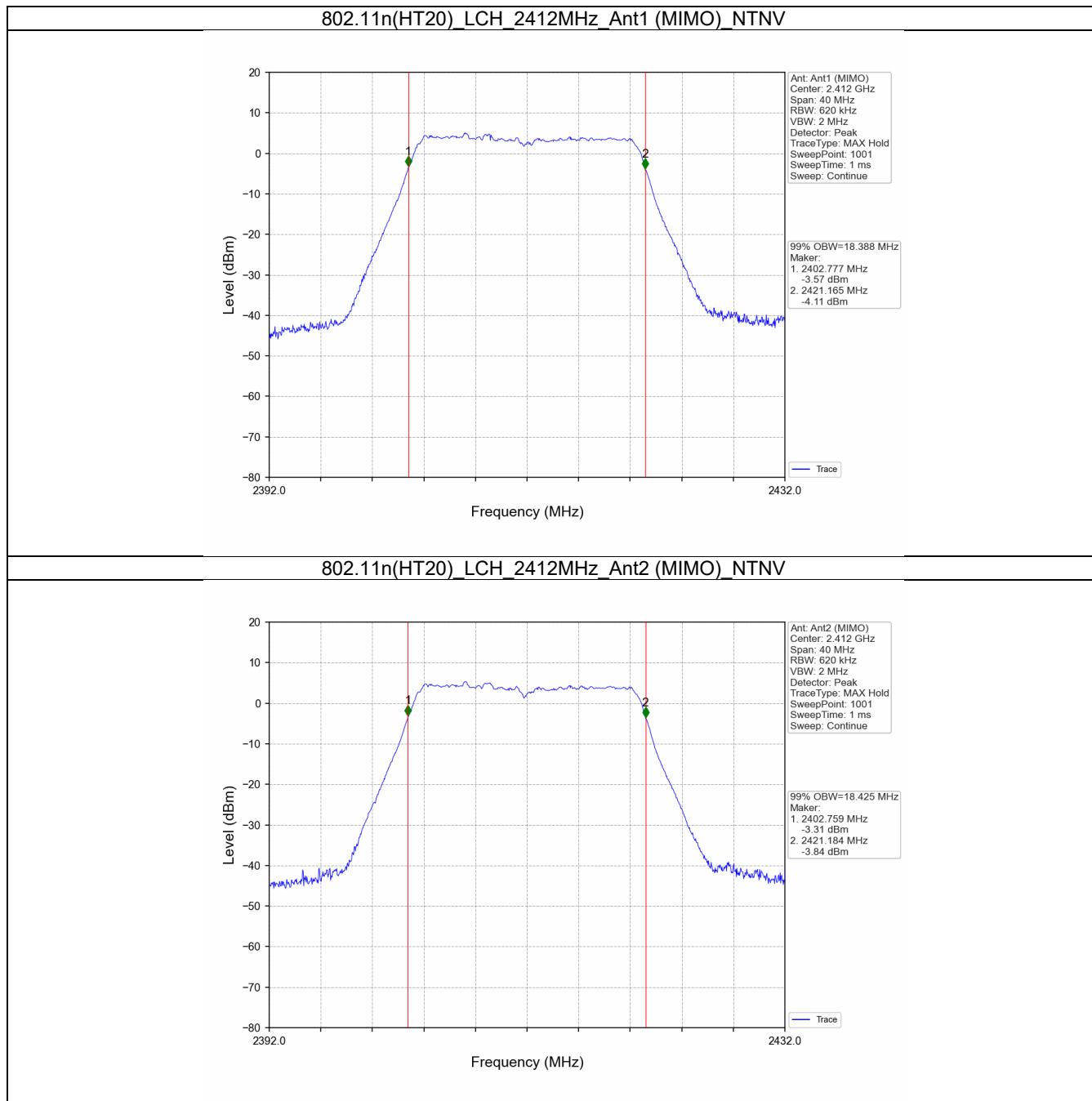
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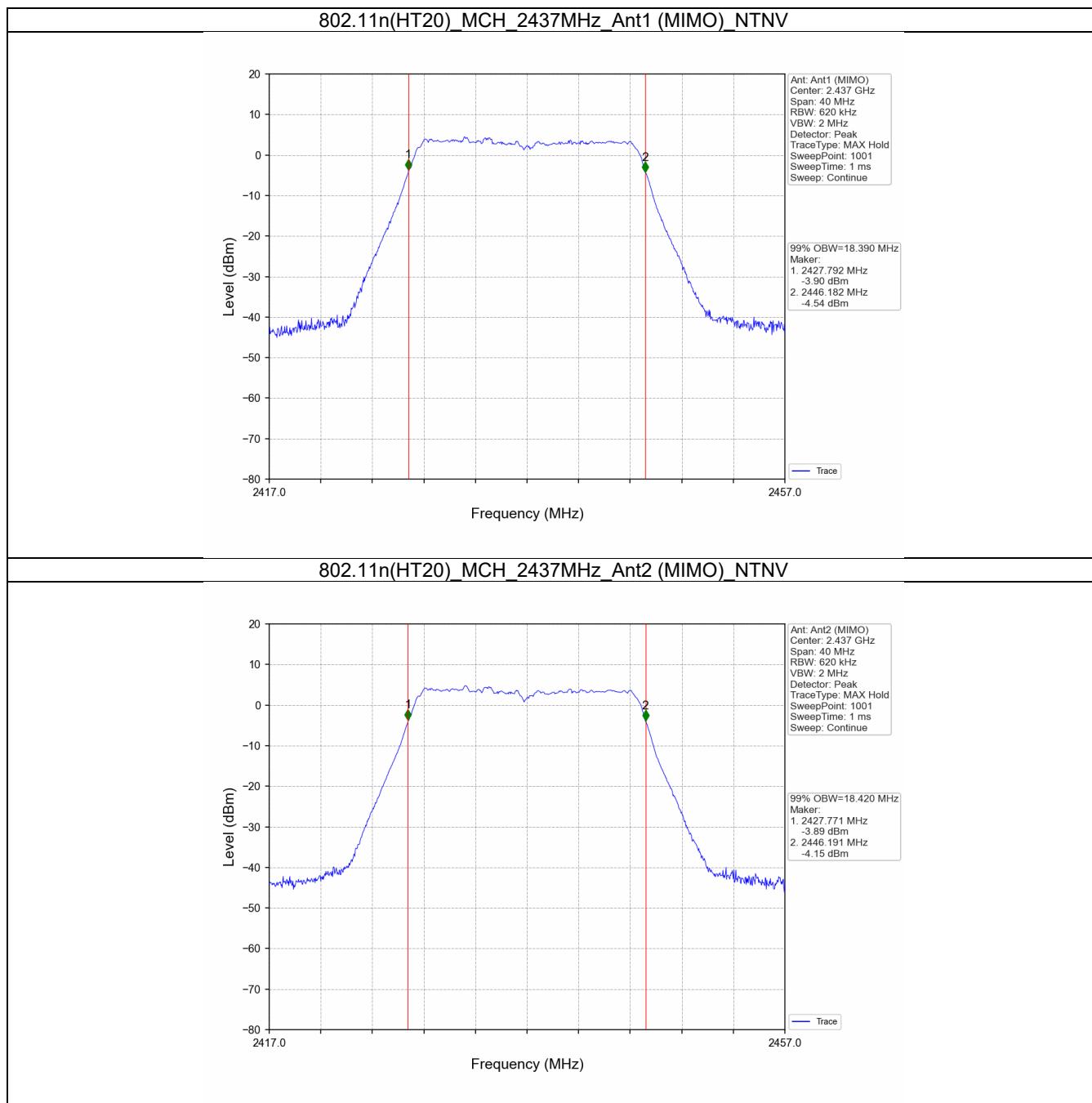
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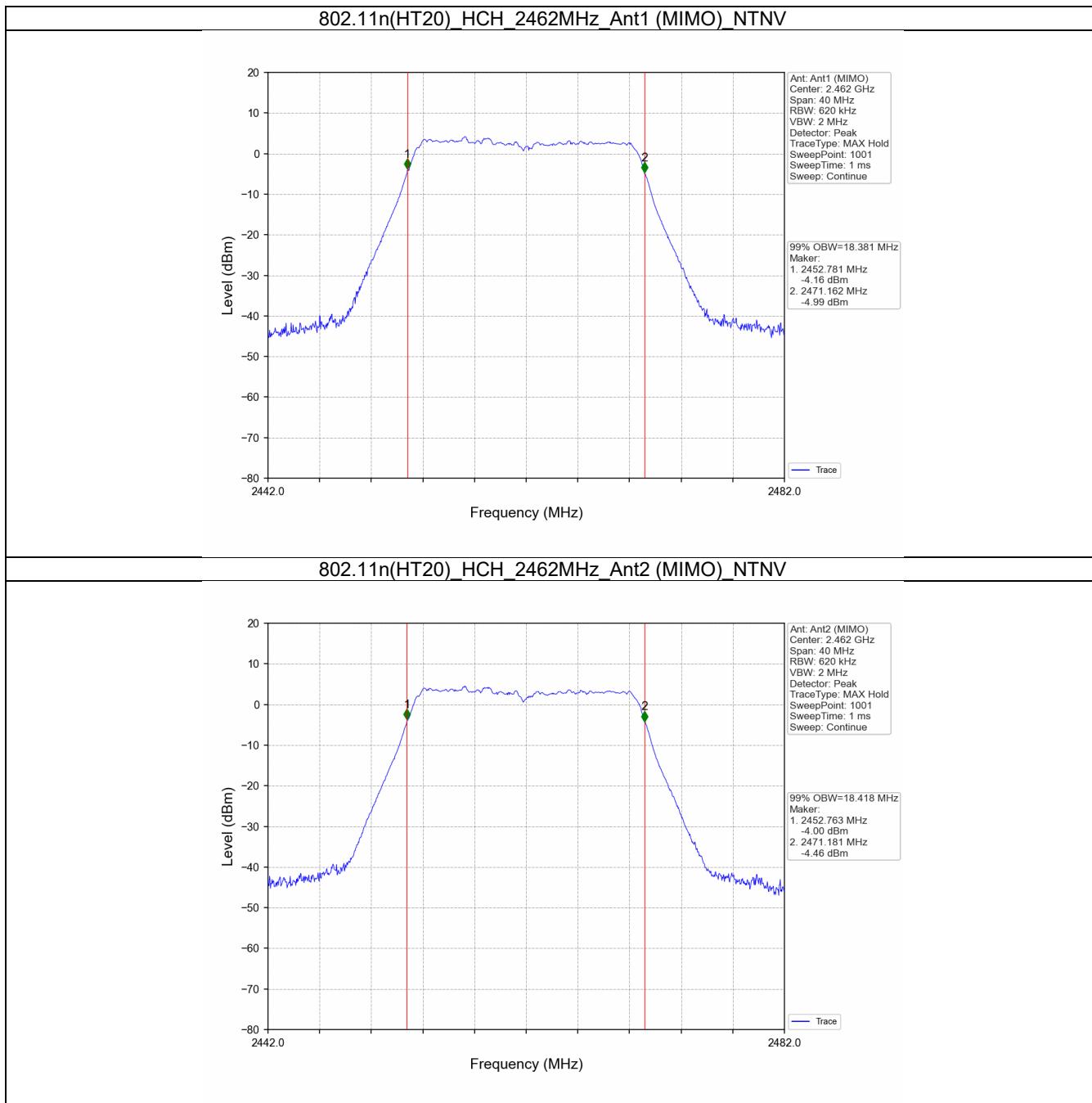
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## 2.2 6dB BW

## 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.108	>=0.5	Pass
			2	10.101	>=0.5	Pass
		2437	1	10.103	>=0.5	Pass
			2	10.091	>=0.5	Pass
		2462	1	10.104	>=0.5	Pass
			2	10.096	>=0.5	Pass
		2412	1	16.585	>=0.5	Pass
			2	16.600	>=0.5	Pass
802.11g	SISO	2437	1	16.580	>=0.5	Pass
			2	16.612	>=0.5	Pass
		2462	1	16.574	>=0.5	Pass
			2	16.603	>=0.5	Pass
	MIMO	2412	1	17.767	>=0.5	Pass
			2	17.818	>=0.5	Pass
		2437	1	17.804	>=0.5	Pass
			2	17.814	>=0.5	Pass
		2462	1	17.801	>=0.5	Pass
			2	17.801	>=0.5	Pass

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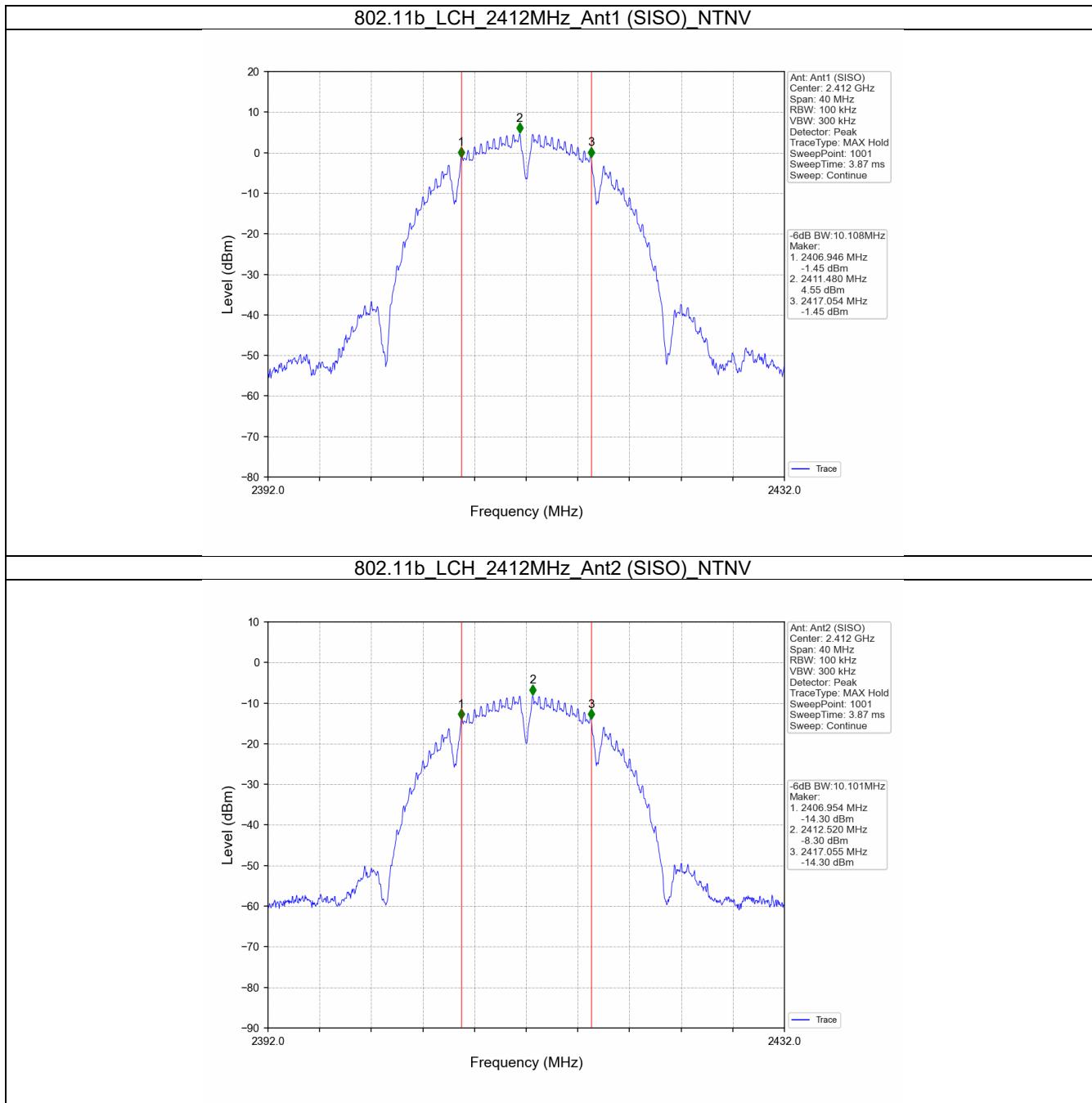
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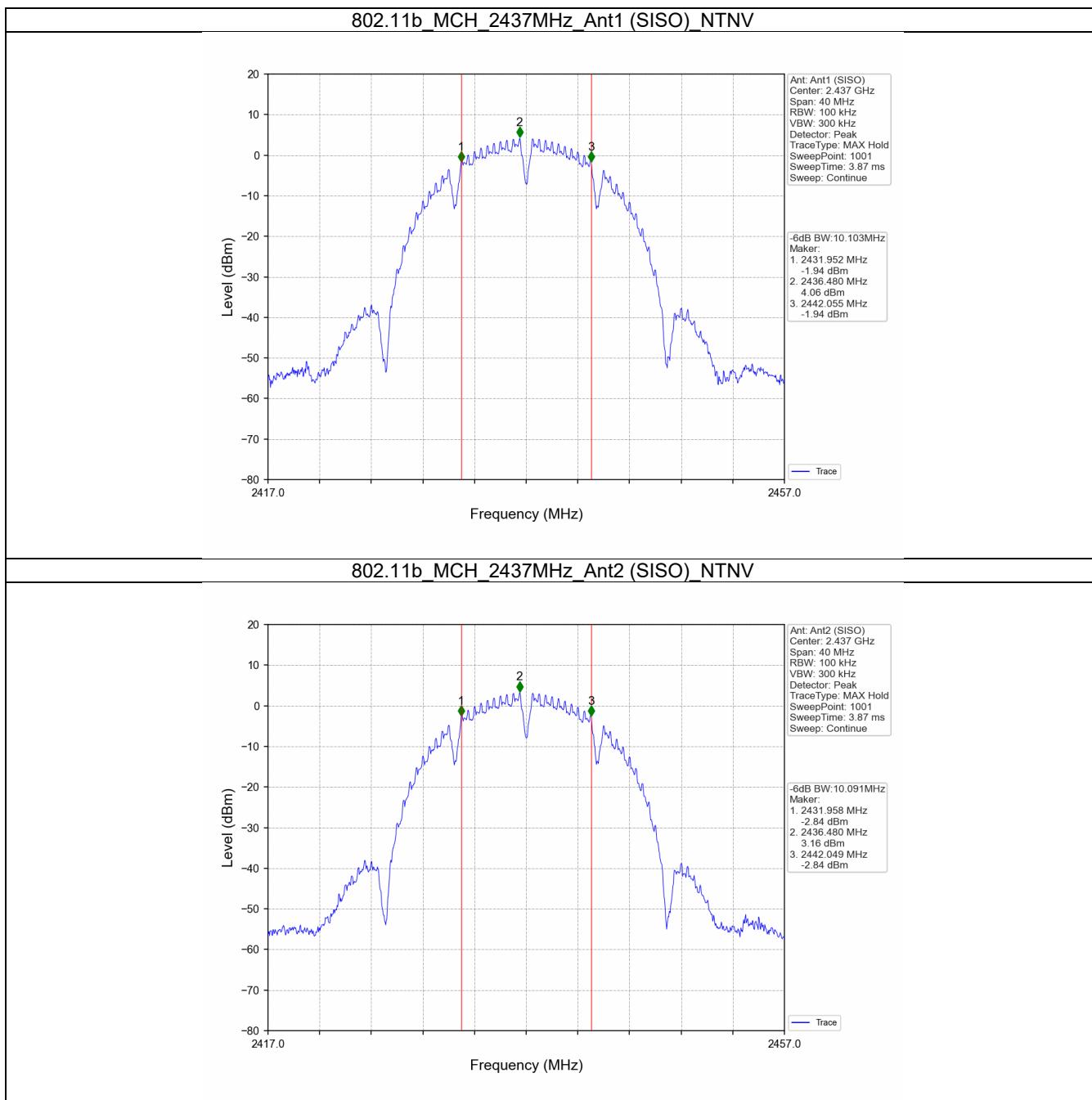
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## 2.2.2 Test Graph



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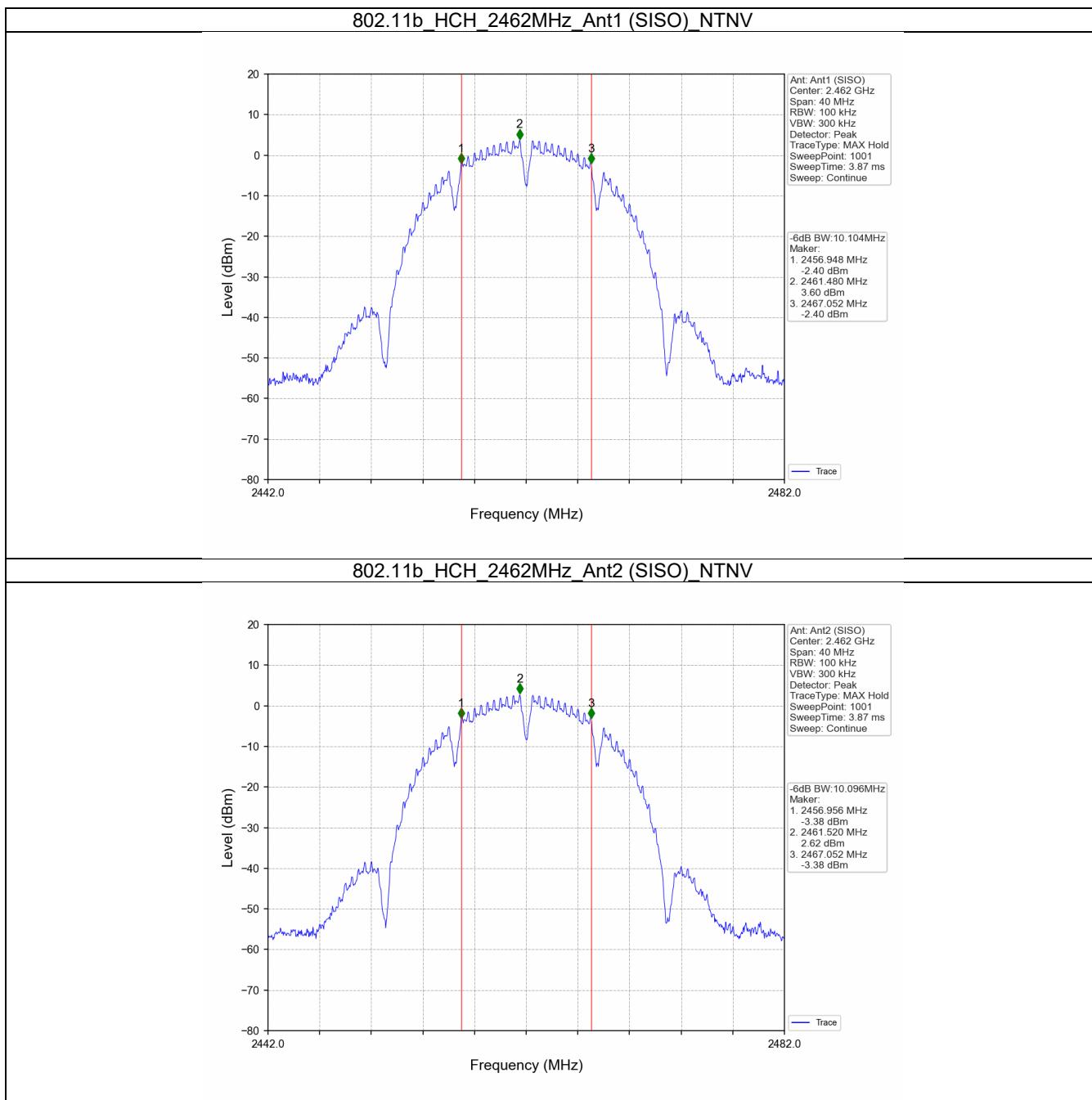
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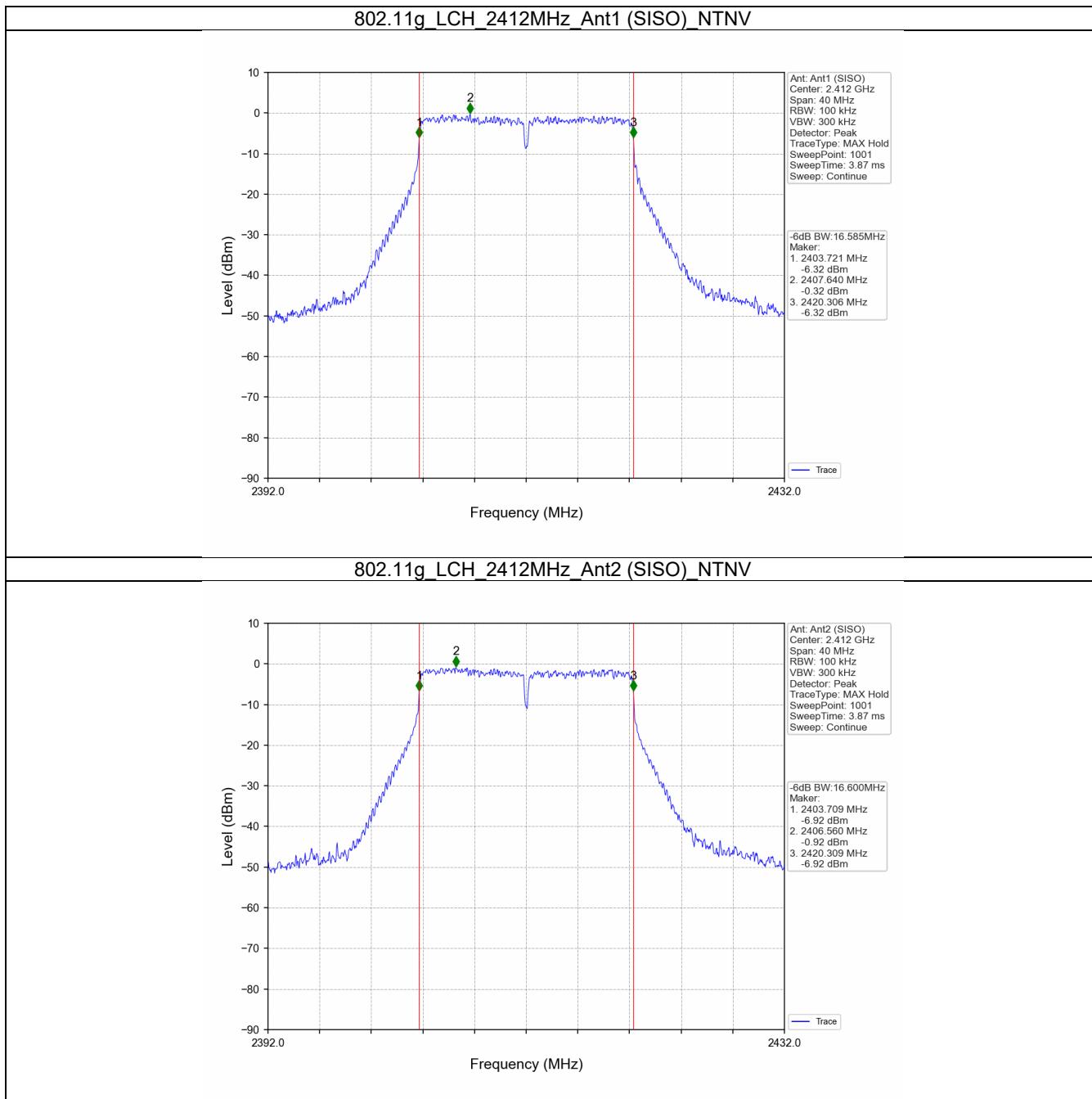


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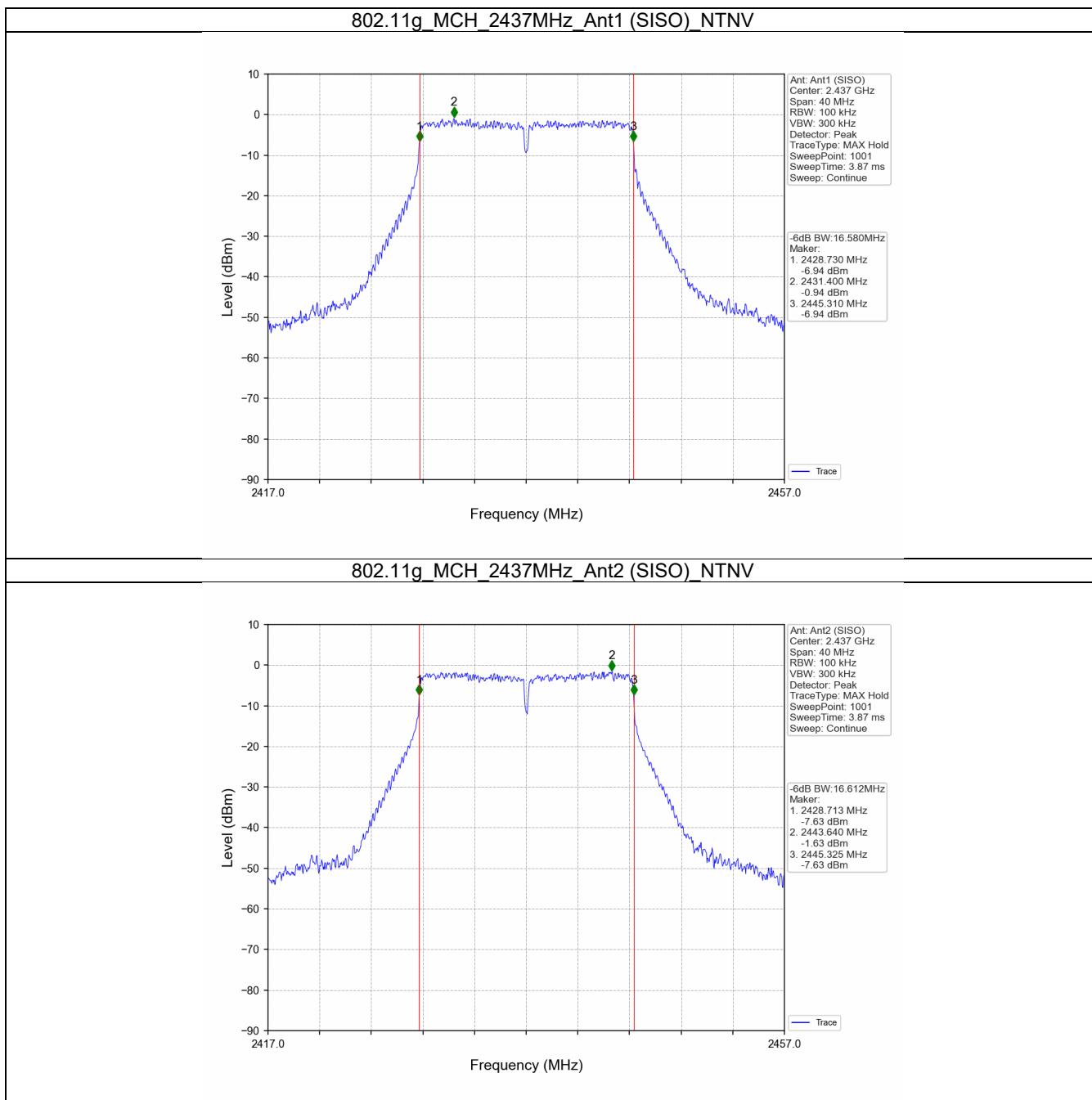
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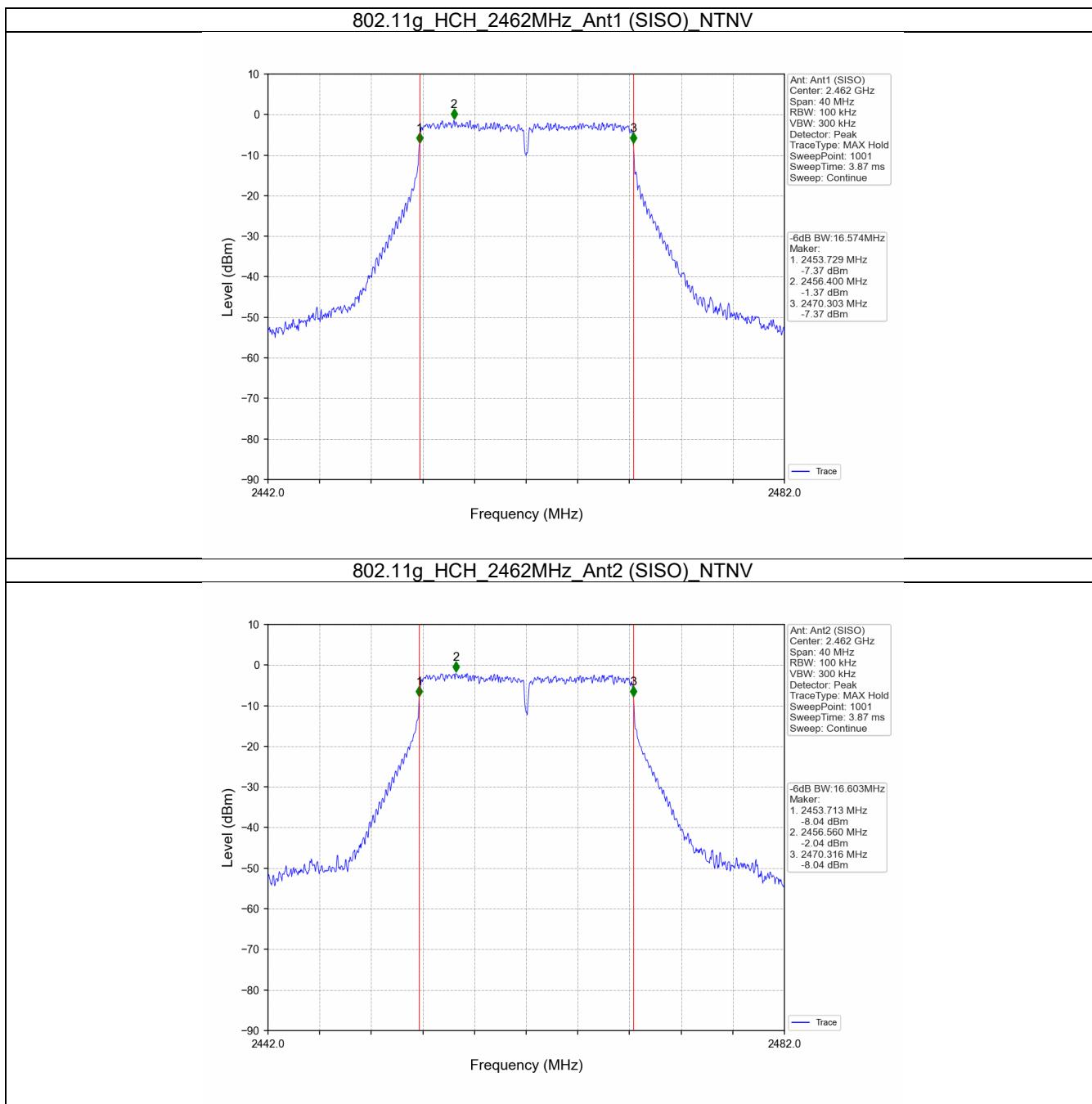
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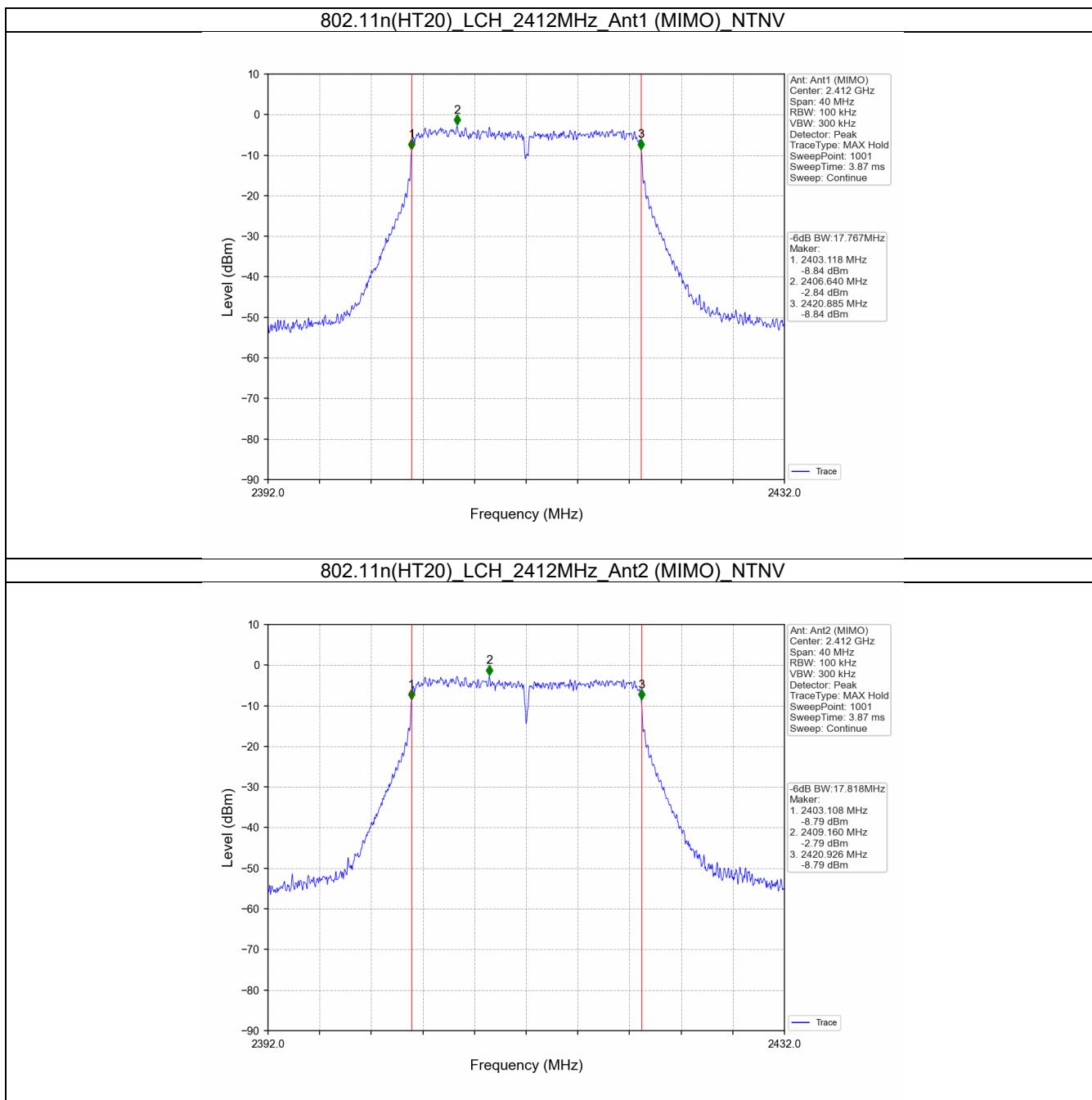
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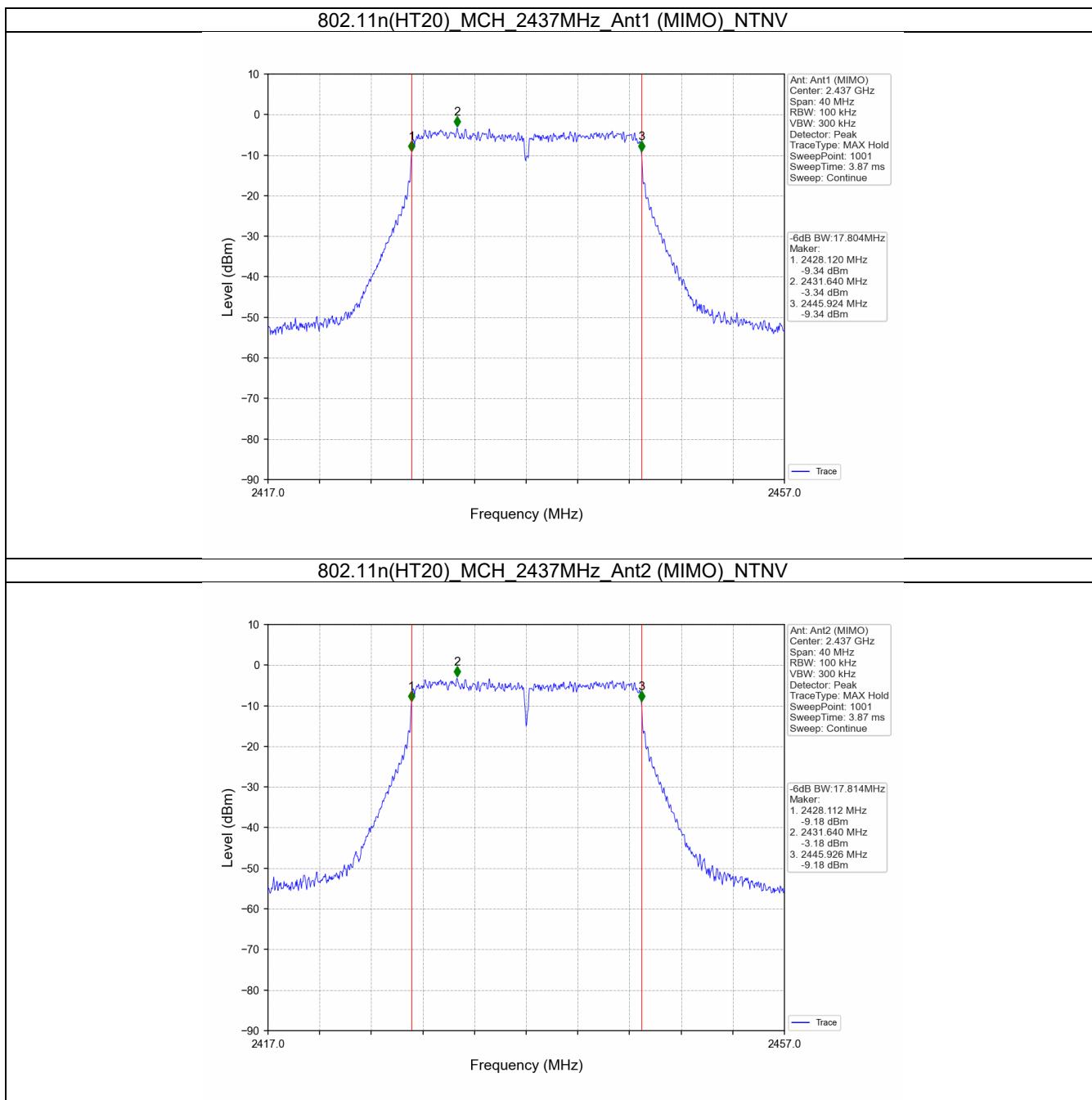


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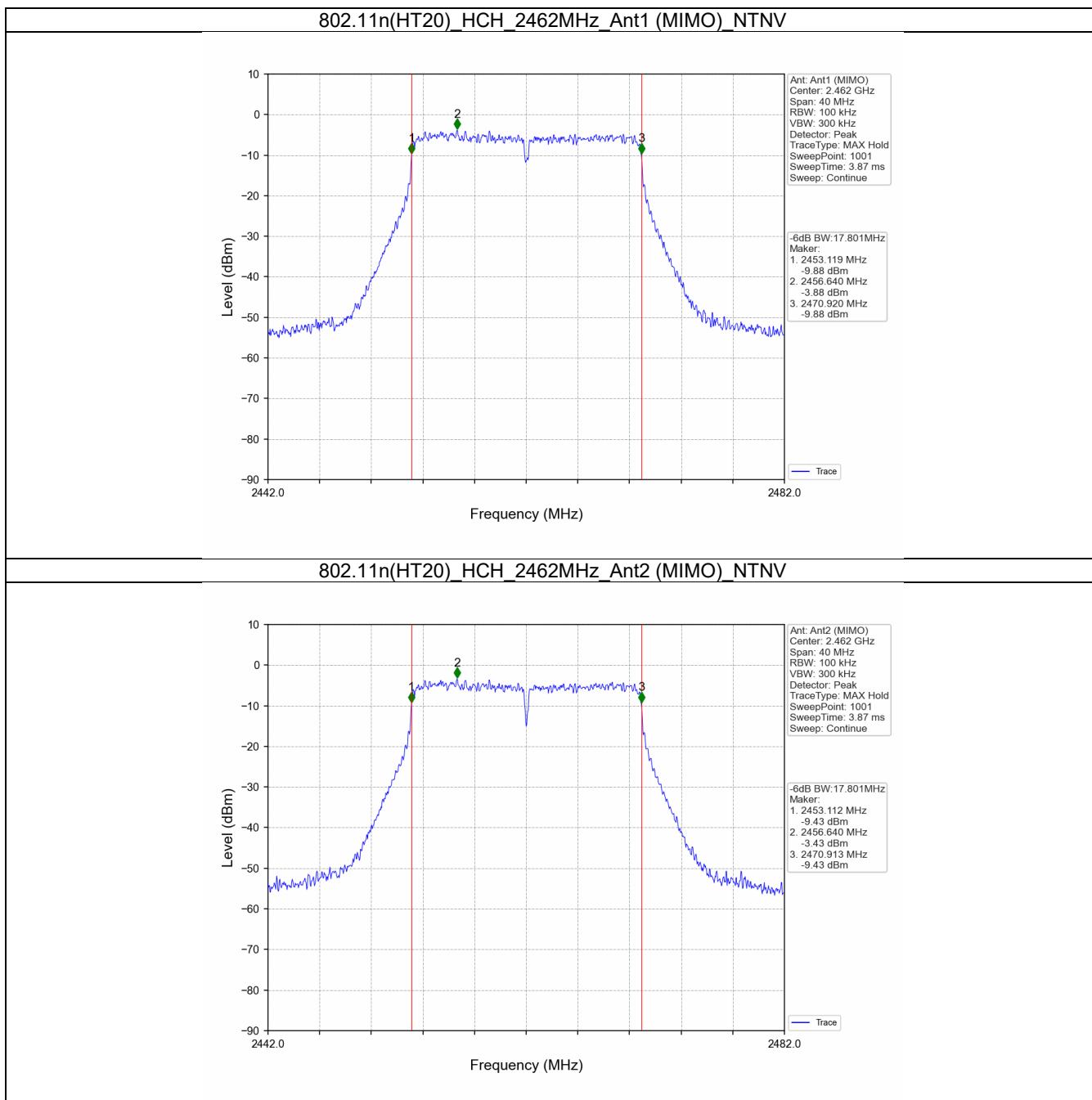
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### 3. Maximum Conducted Output Power

#### 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	14.32	13.27	/	<=30	Pass
		2437	13.86	12.81	/	<=30	Pass
		2462	13.39	12.32	/	<=30	Pass
802.11g	SISO	2412	13.70	13.29	/	<=30	Pass
		2437	13.02	12.67	/	<=30	Pass
		2462	12.52	12.19	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.93	11.27	14.11	<=30	Pass
		2437	10.52	10.76	13.65	<=30	Pass
		2462	10.04	10.47	13.27	<=30	Pass

Note1: Antenna Gain: Ant1: 2.24dBi; Ant2: 2.30dBi;  
 Note2: Directional Gain: 5.28dBi

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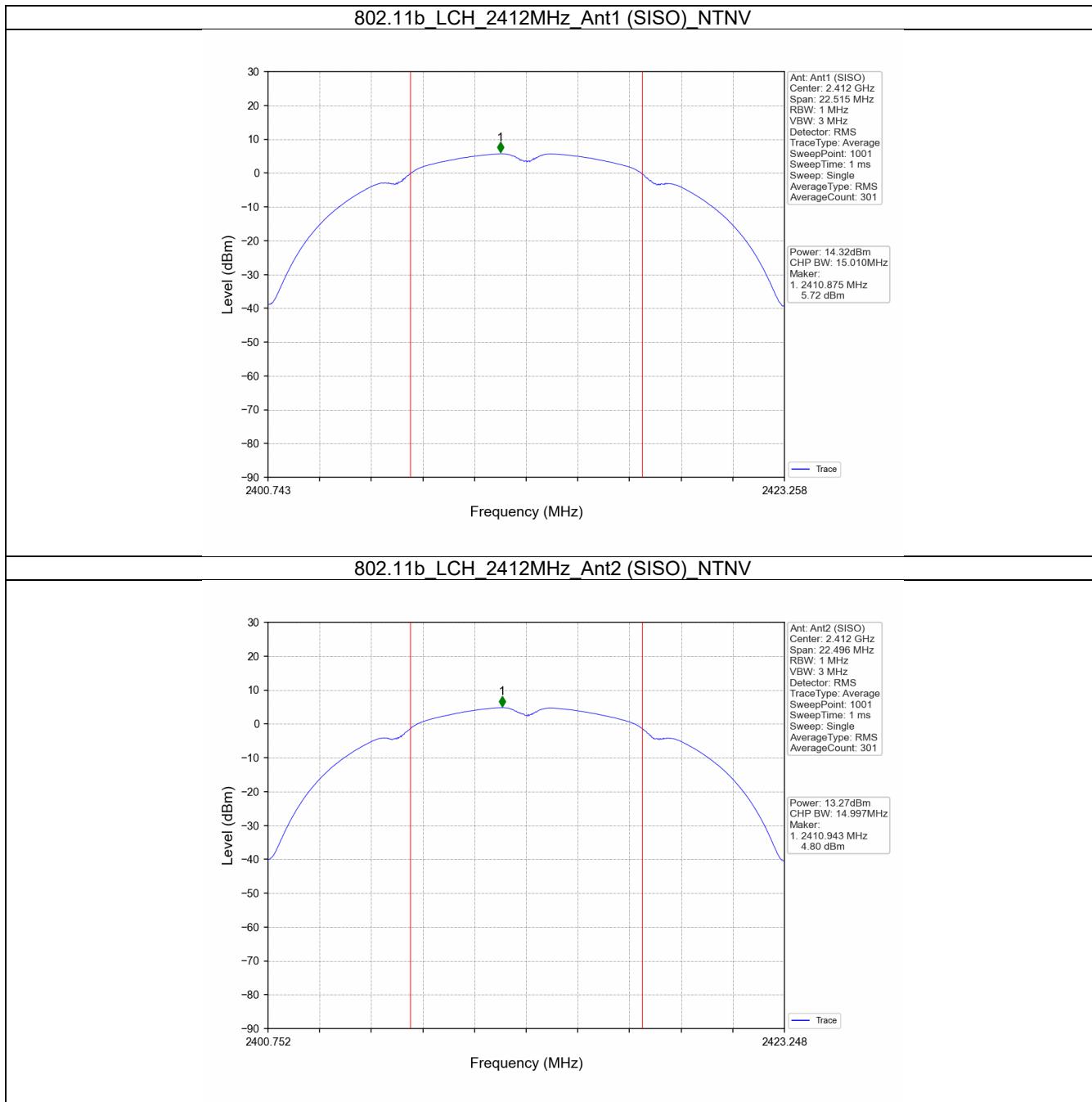
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## 3.1.2 Test Graph



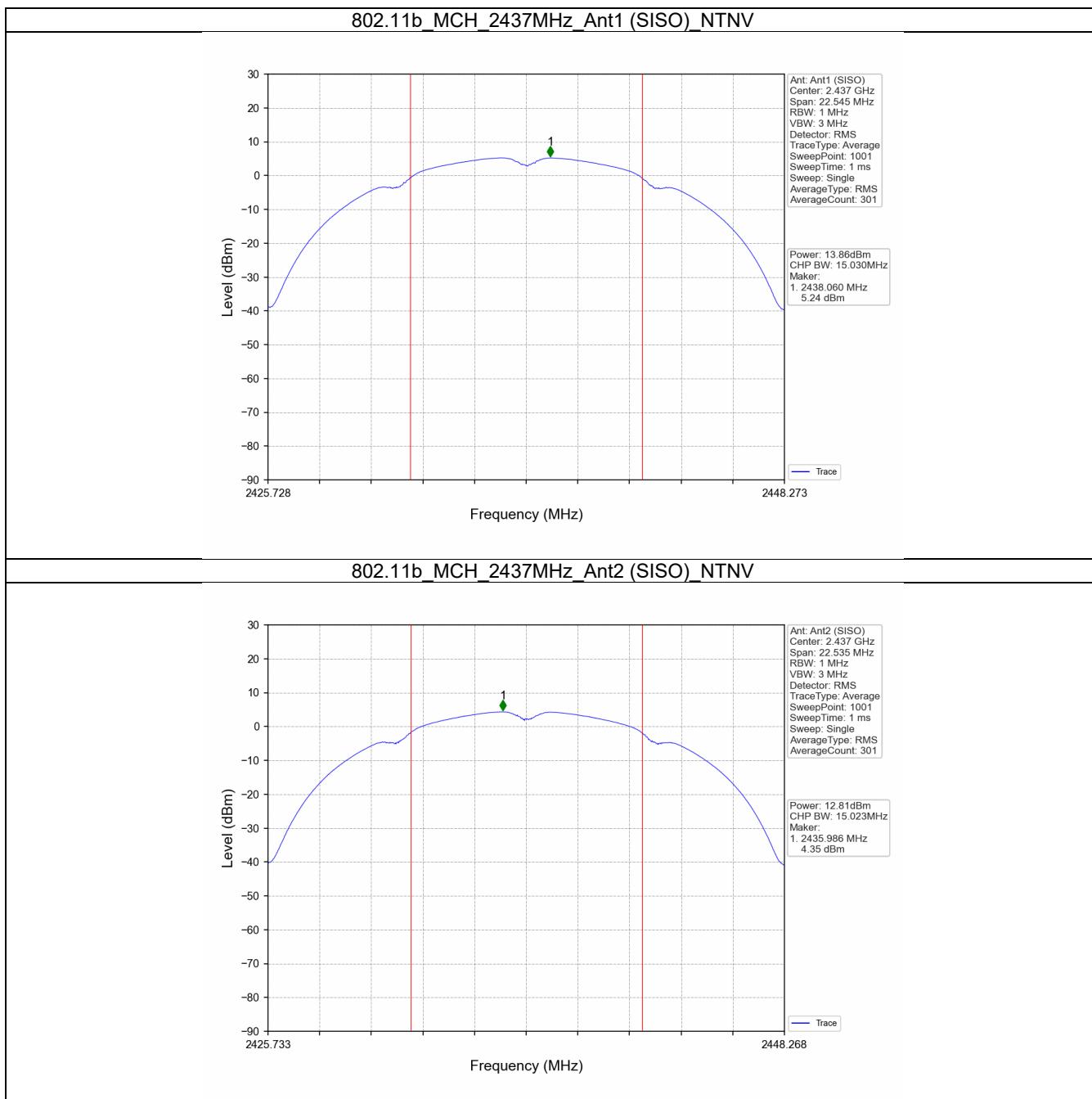
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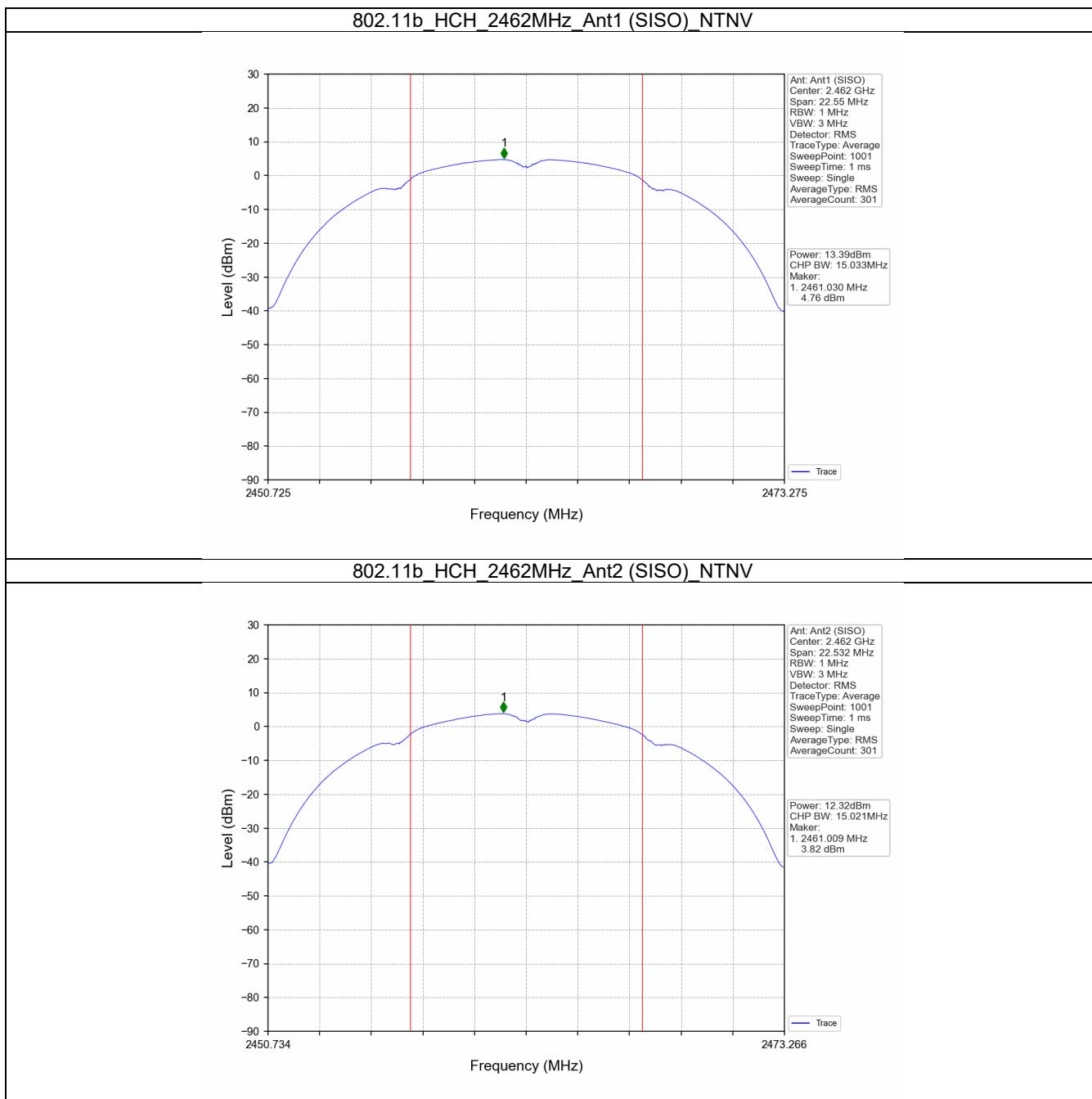
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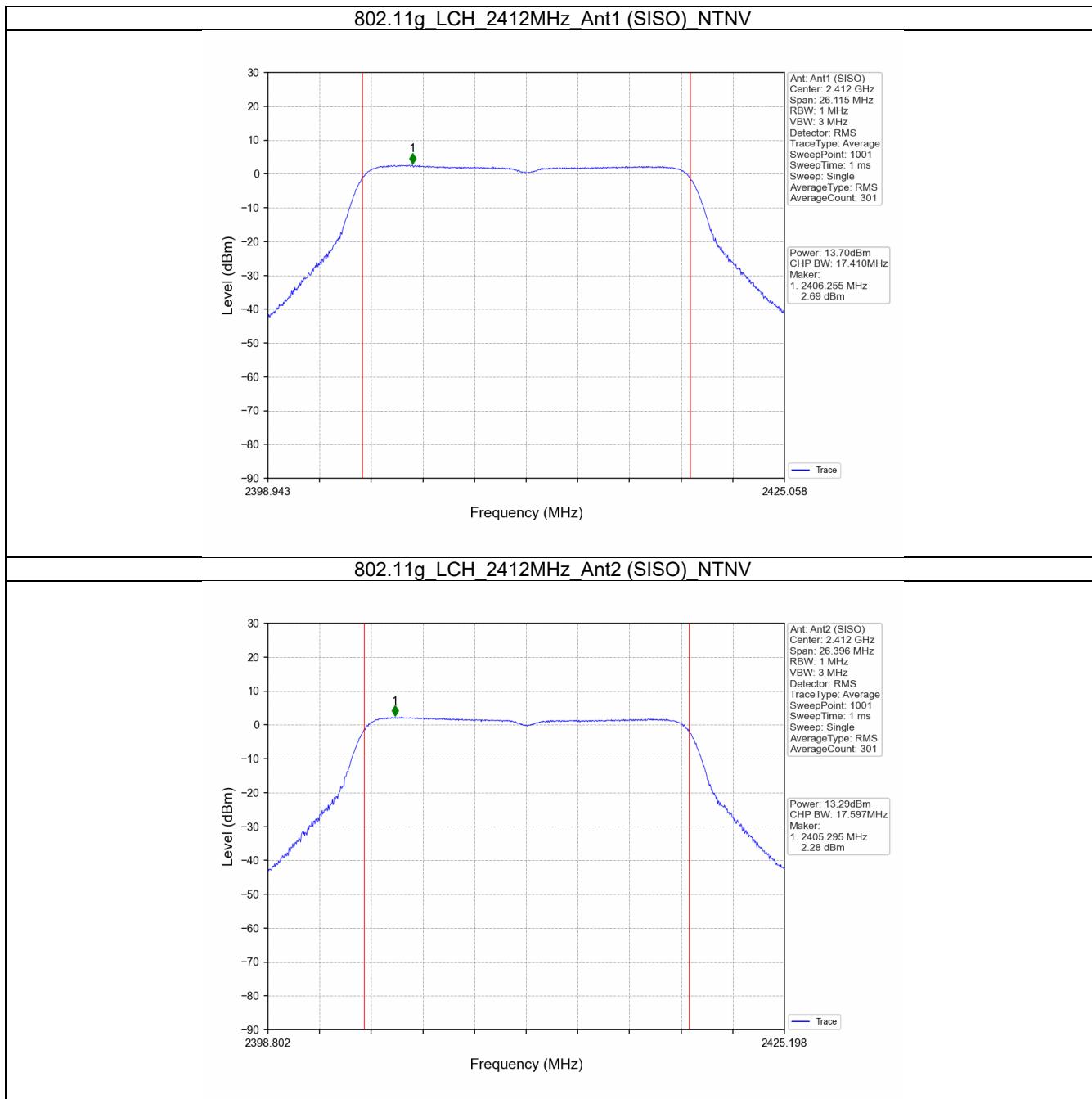
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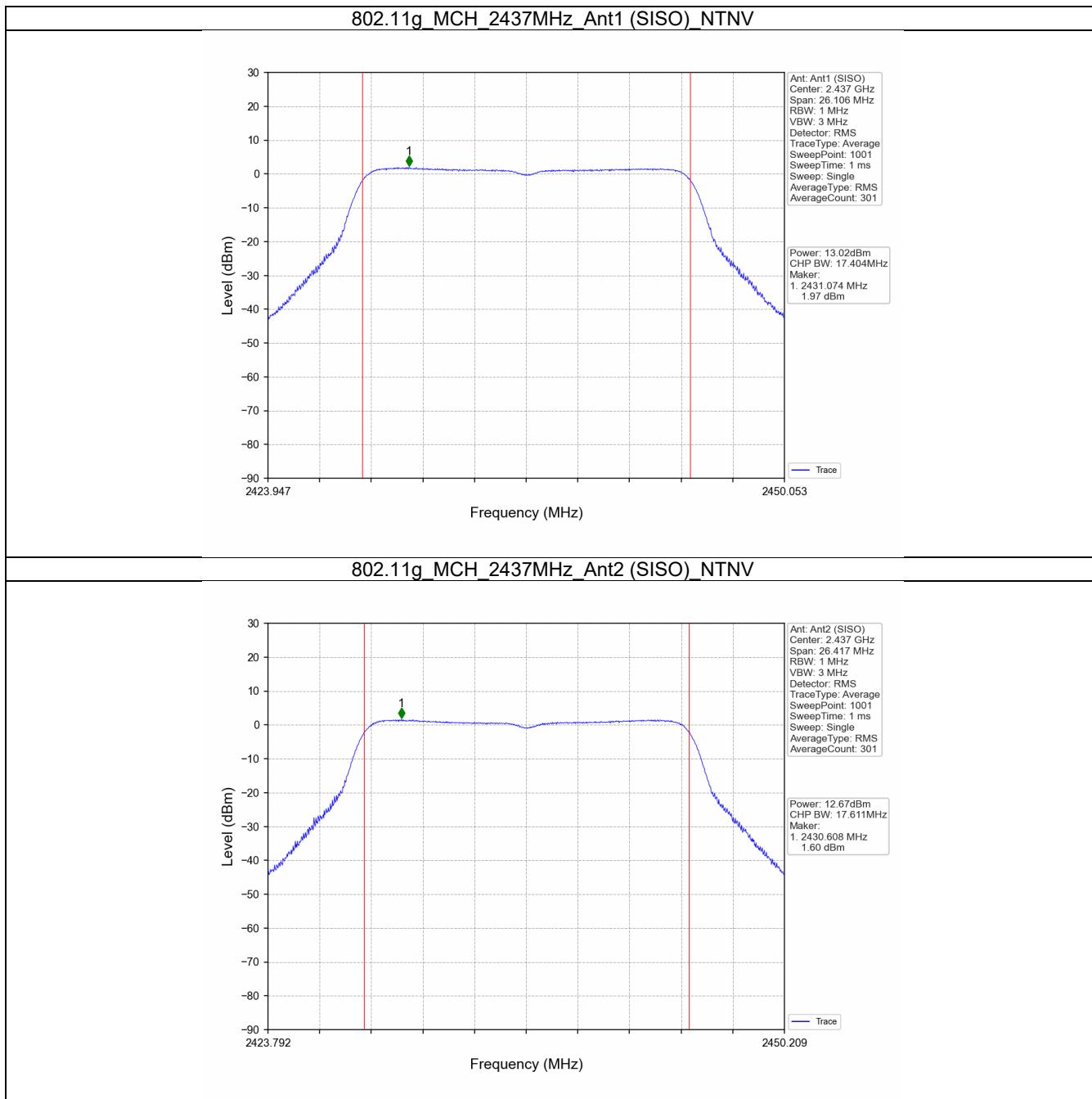
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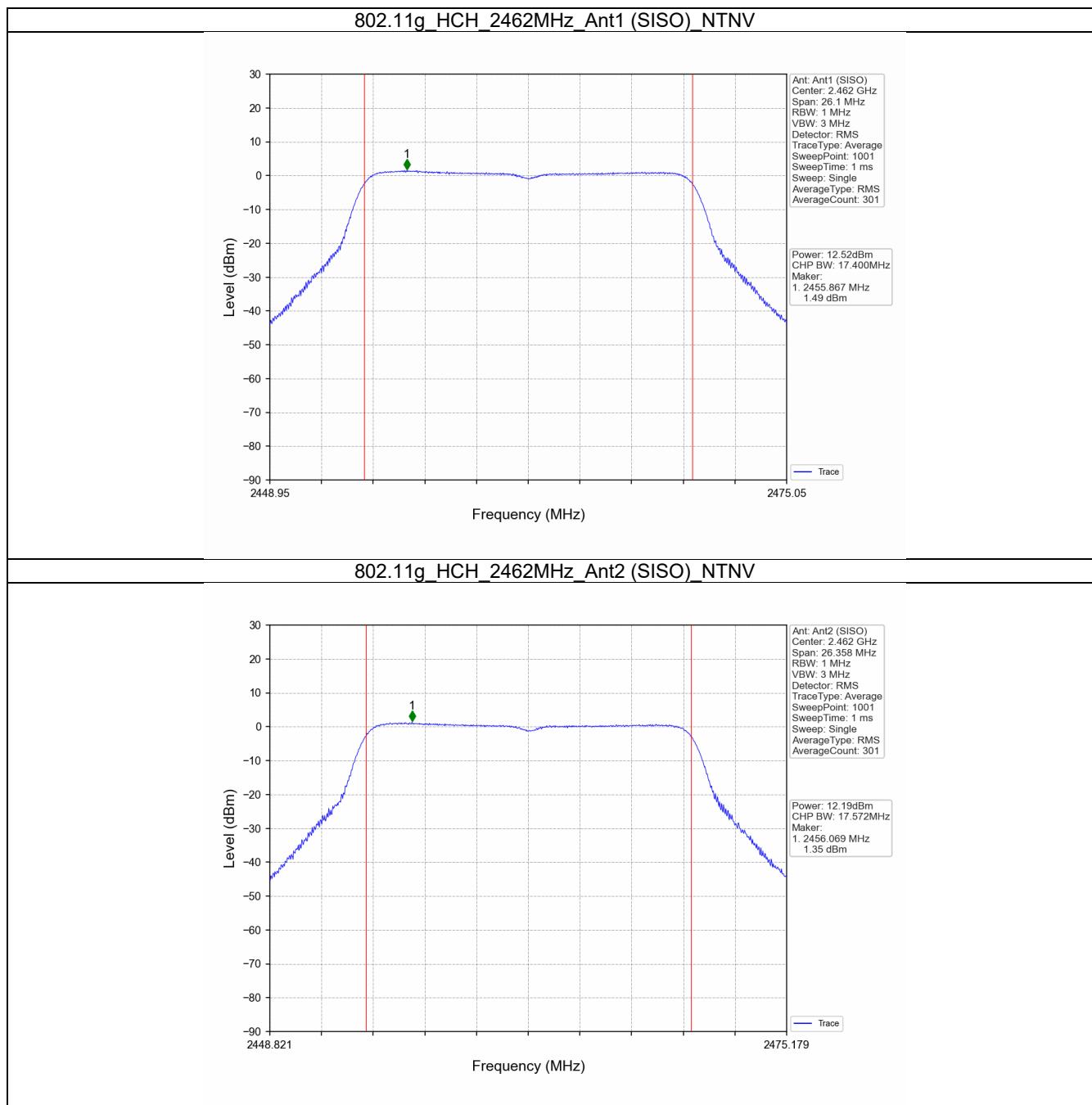
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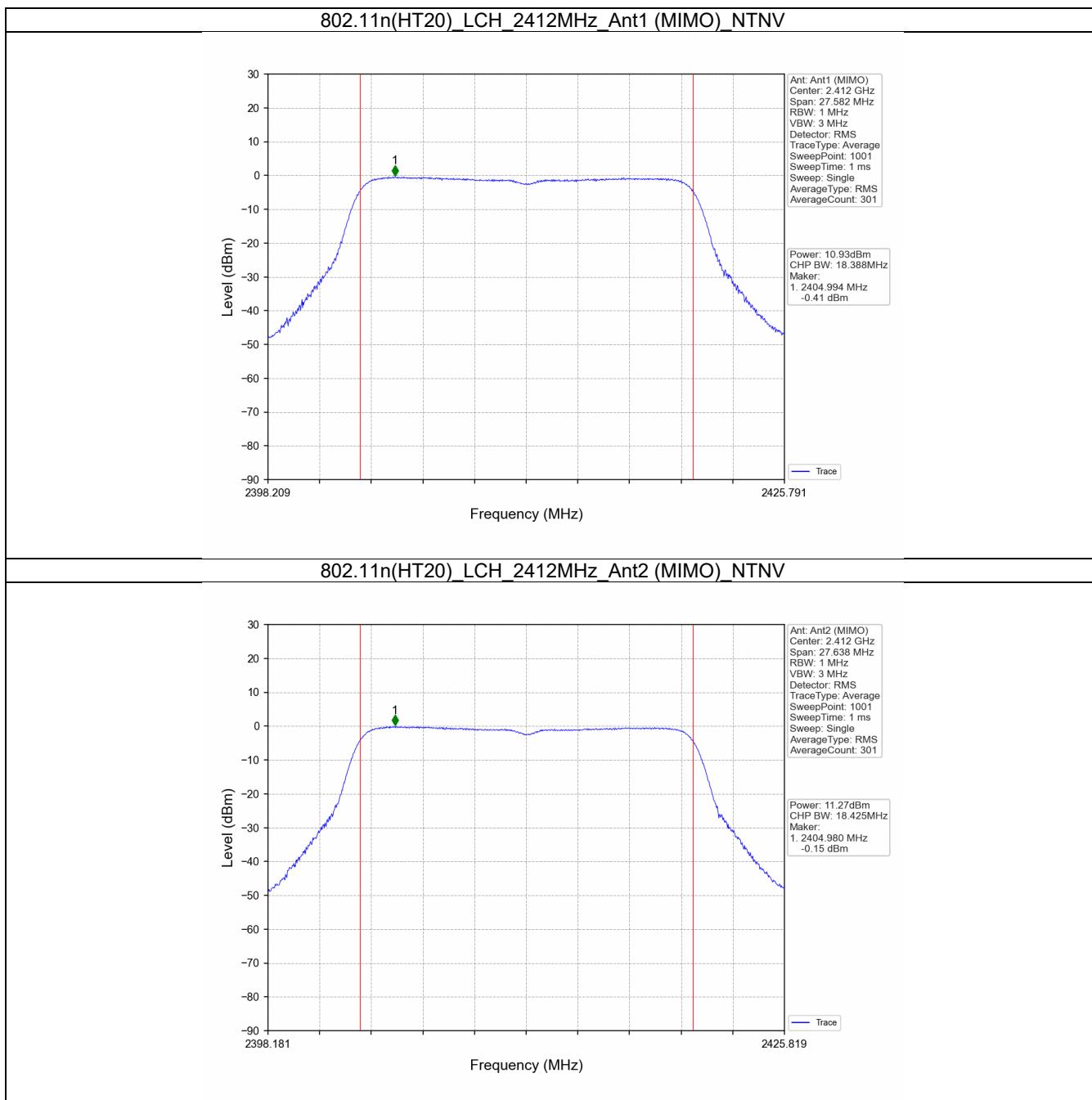
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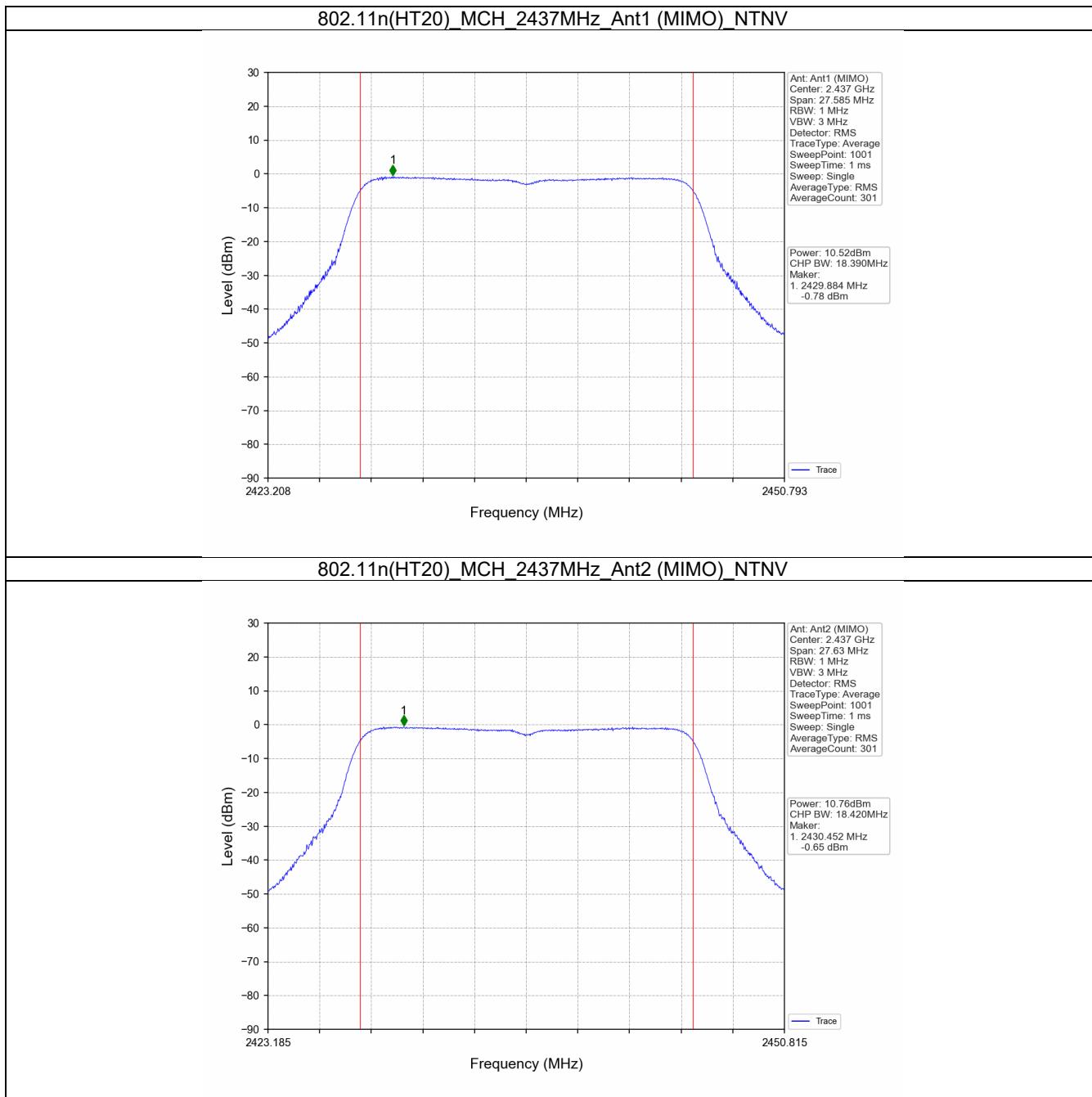
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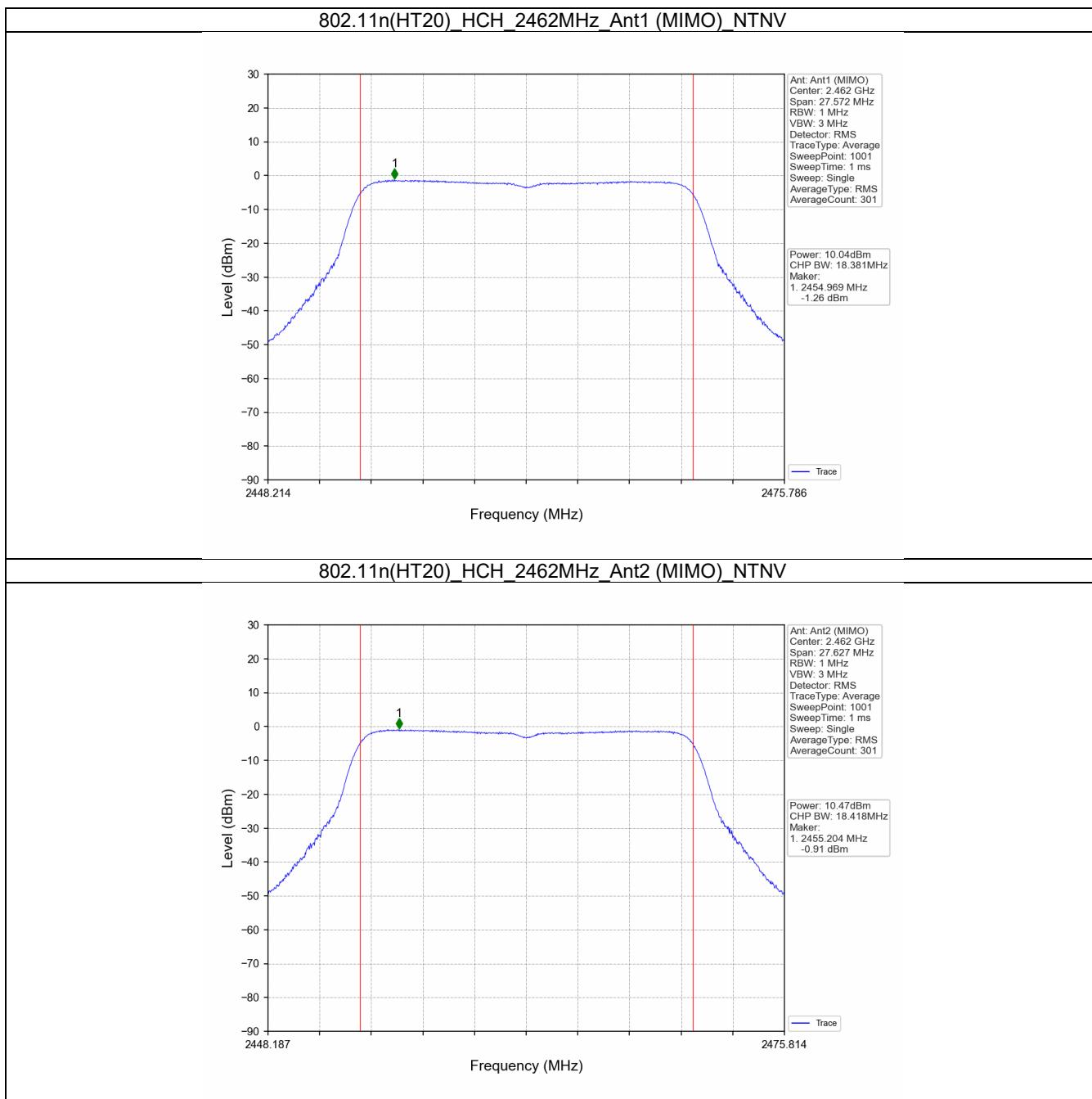
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## 4. Maximum Power Spectral Density

### 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	-15.48	-16.50	/	<=8	Pass
		2437	-15.99	-16.95	/	<=8	Pass
		2462	-16.43	-17.38	/	<=8	Pass
802.11g	SISO	2412	-14.56	-15.31	/	<=8	Pass
		2437	-15.19	-15.85	/	<=8	Pass
		2462	-15.90	-16.20	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-16.30	-15.98	-13.21	<=8	Pass
		2437	-16.78	-17.11	-14.15	<=8	Pass
		2462	-17.25	-17.73	-14.95	<=8	Pass

Note1: Antenna Gain: Ant1: 2.24dBi; Ant2: 2.30dBi;

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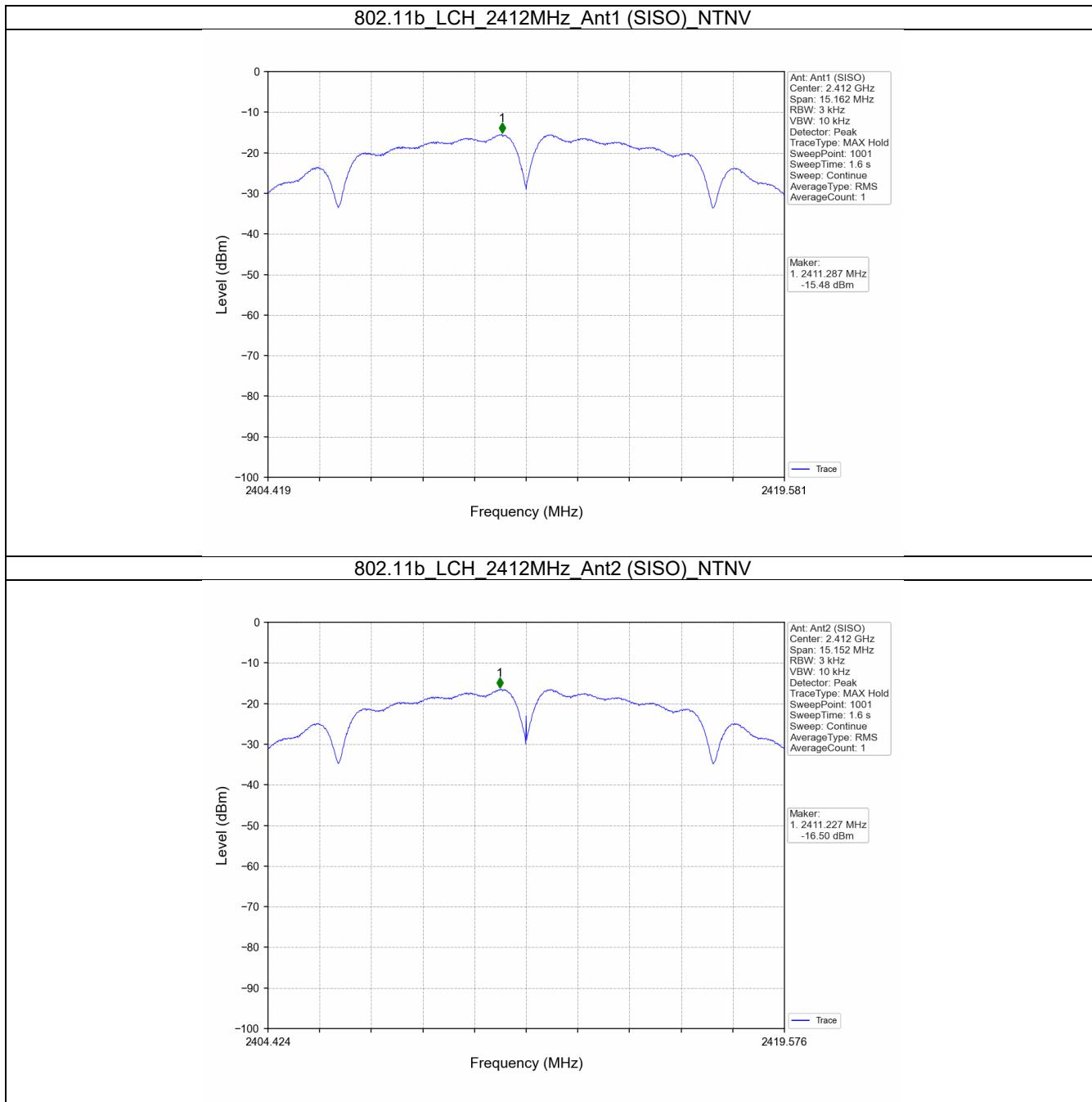
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## 4.1.2 Test Graph



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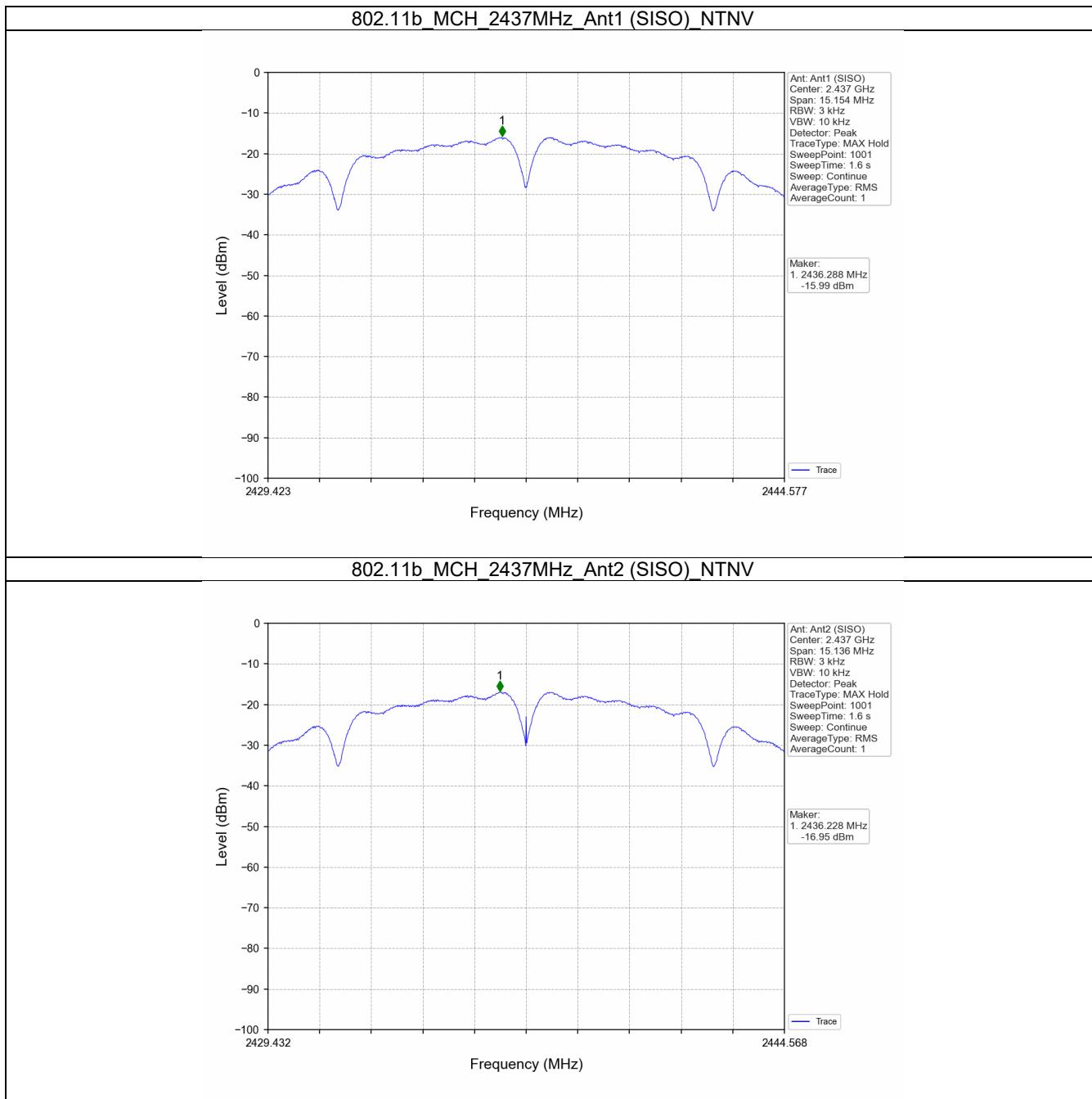
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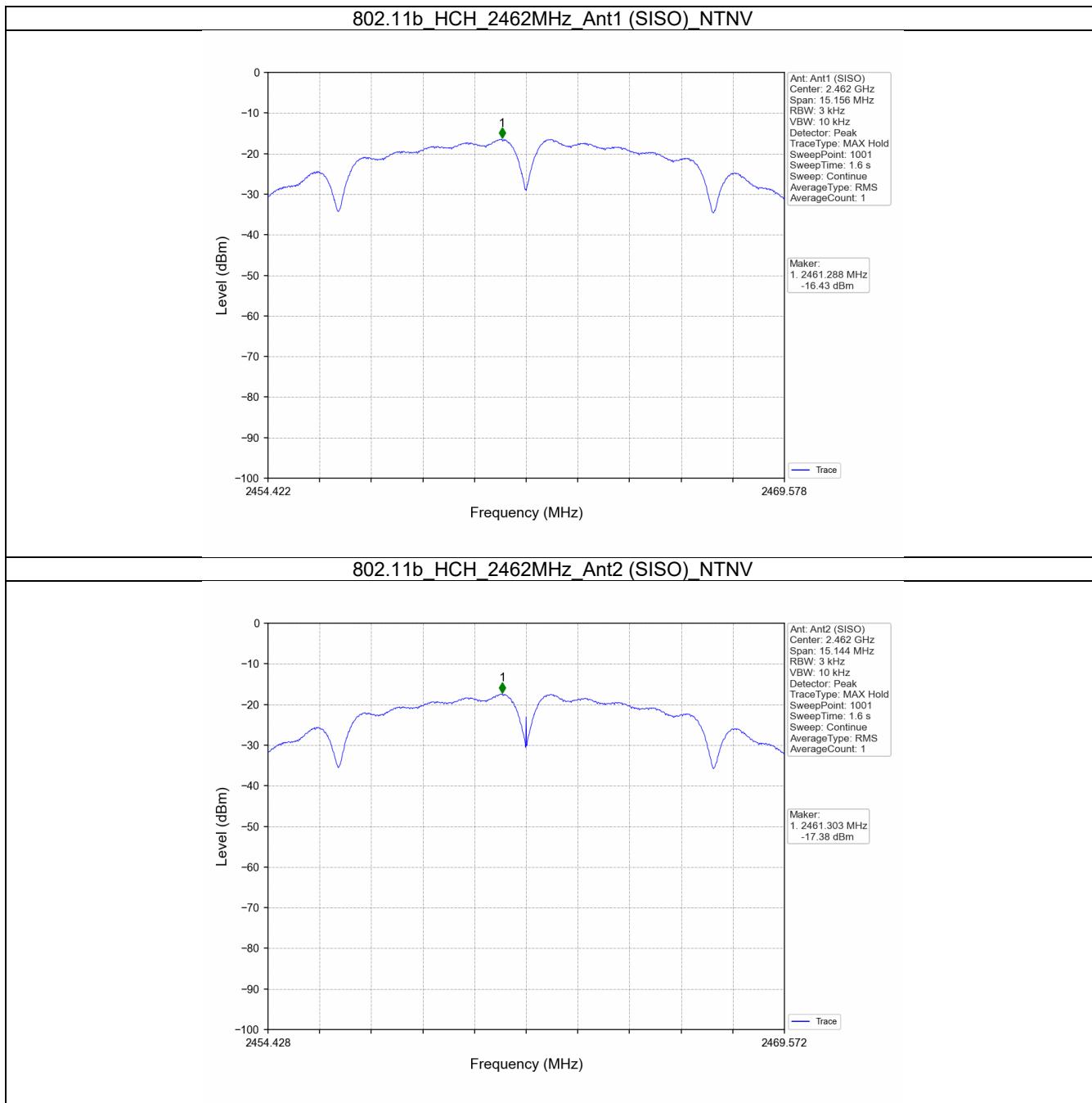
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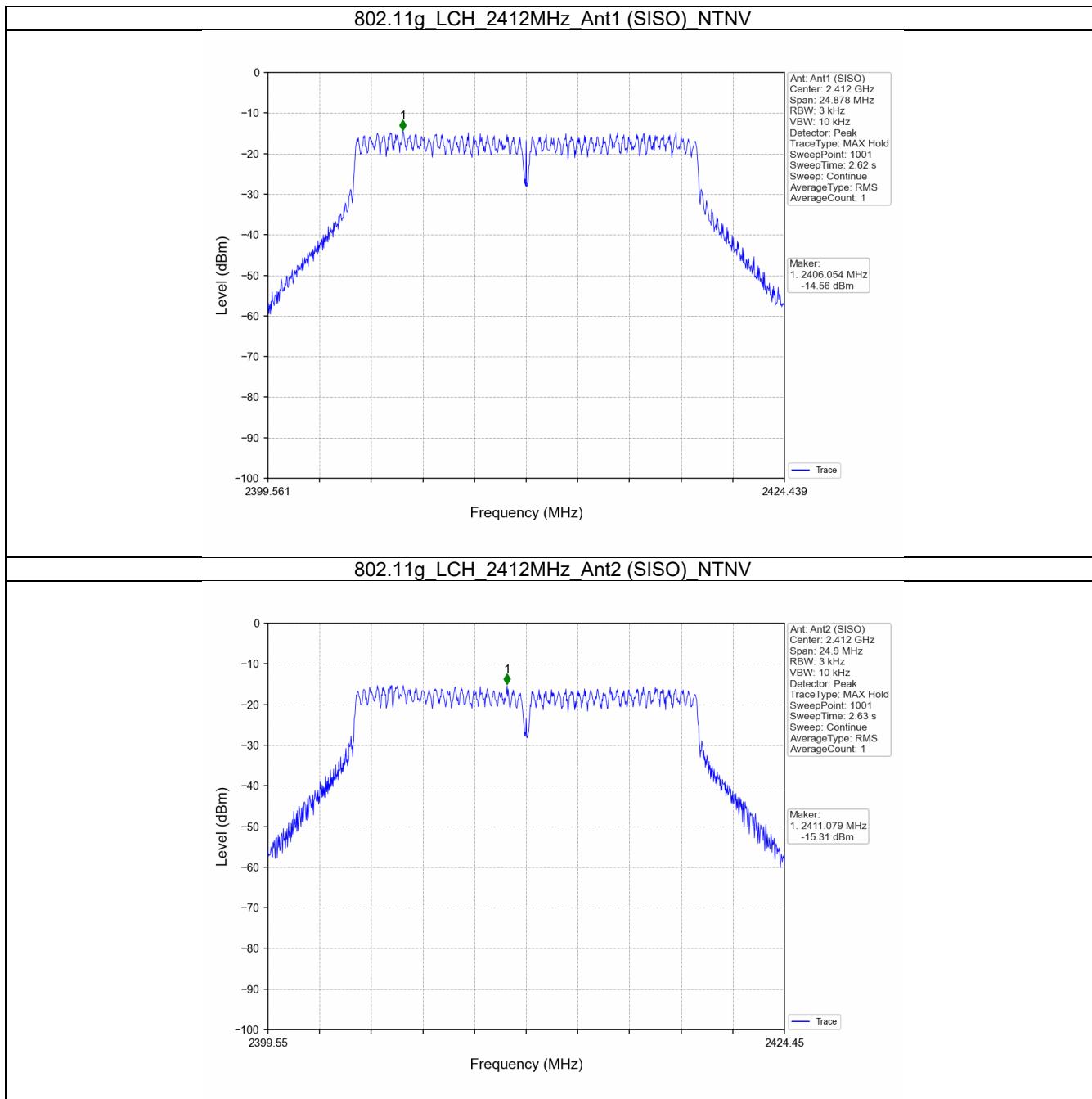


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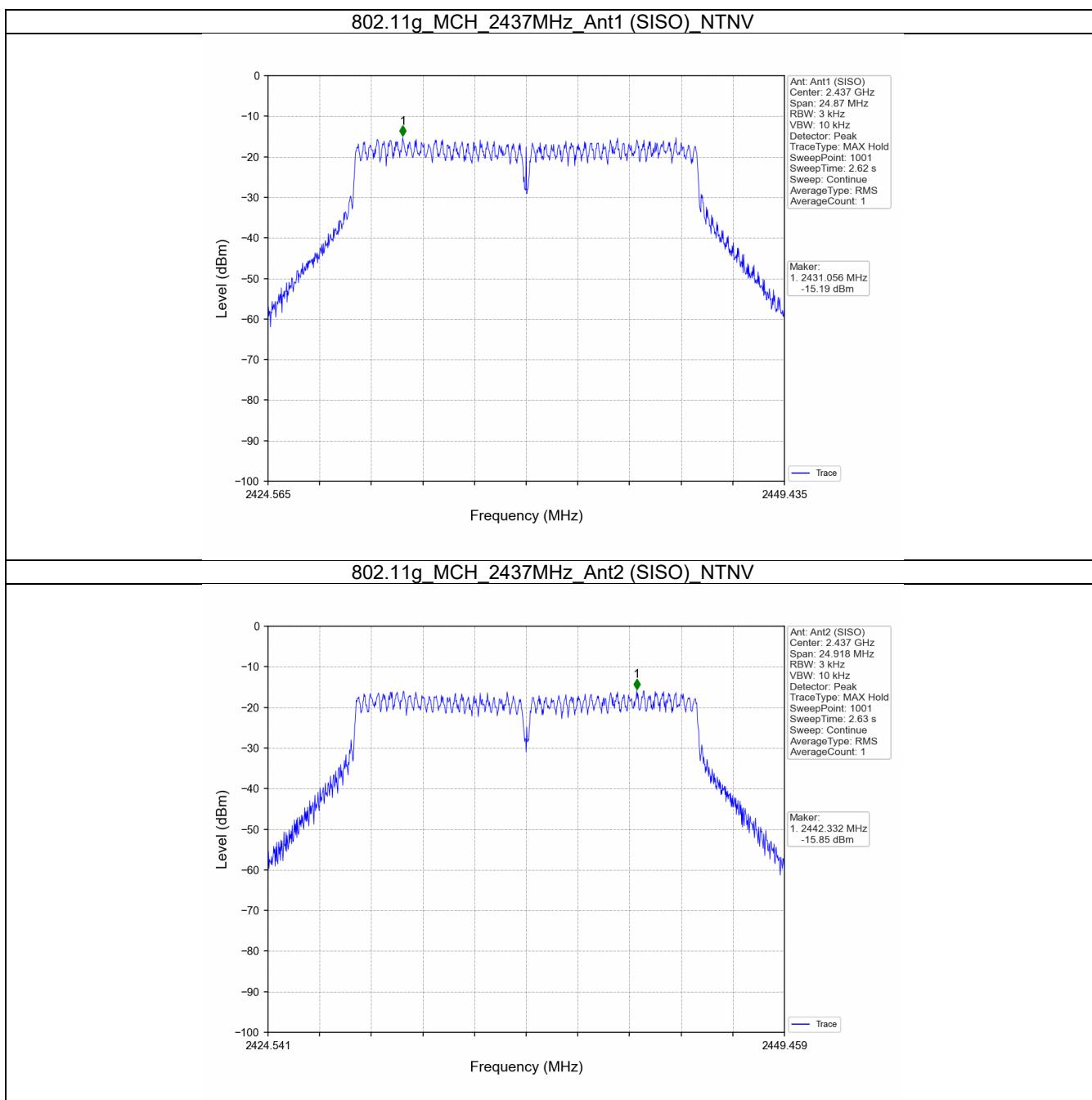
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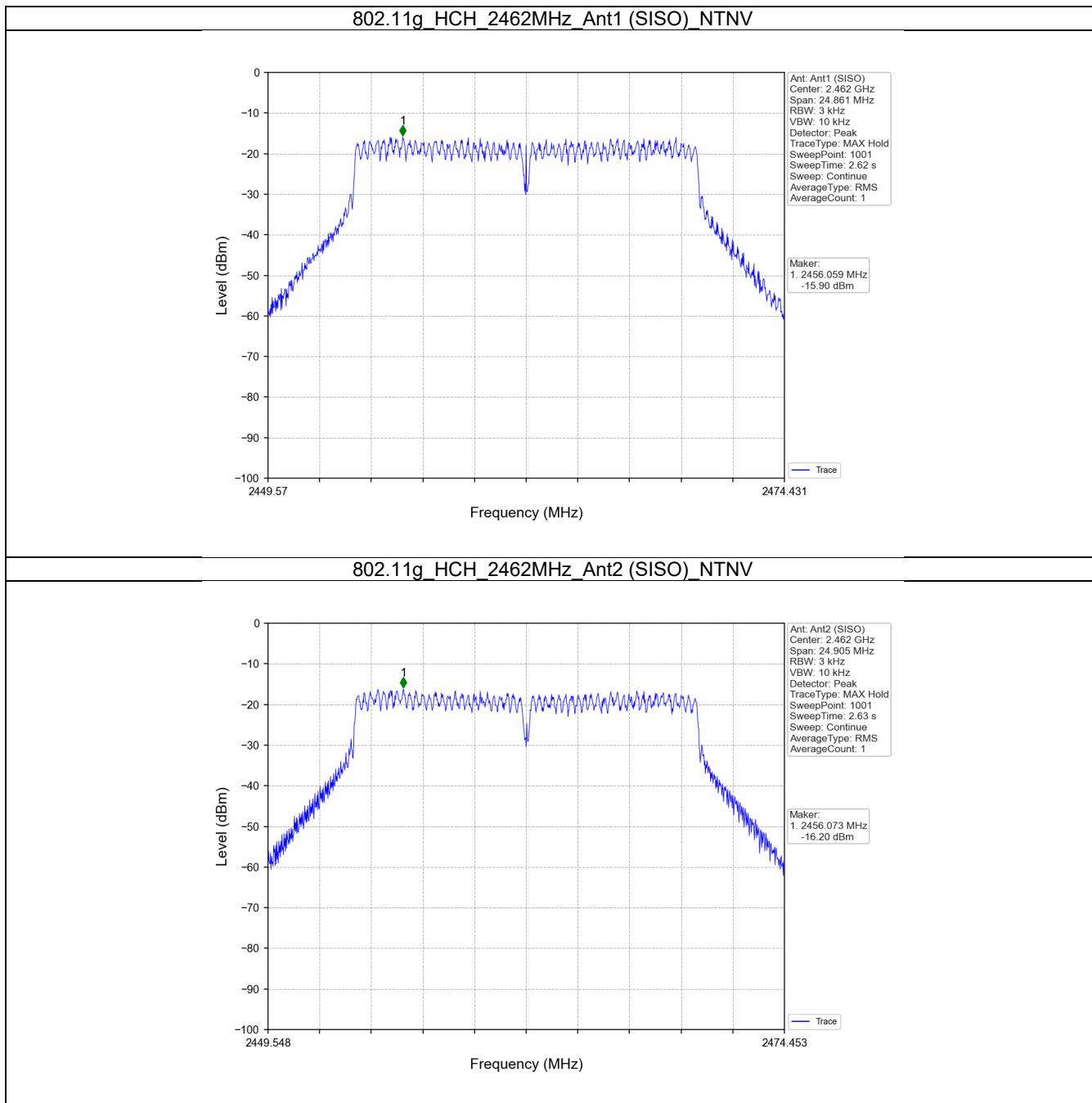


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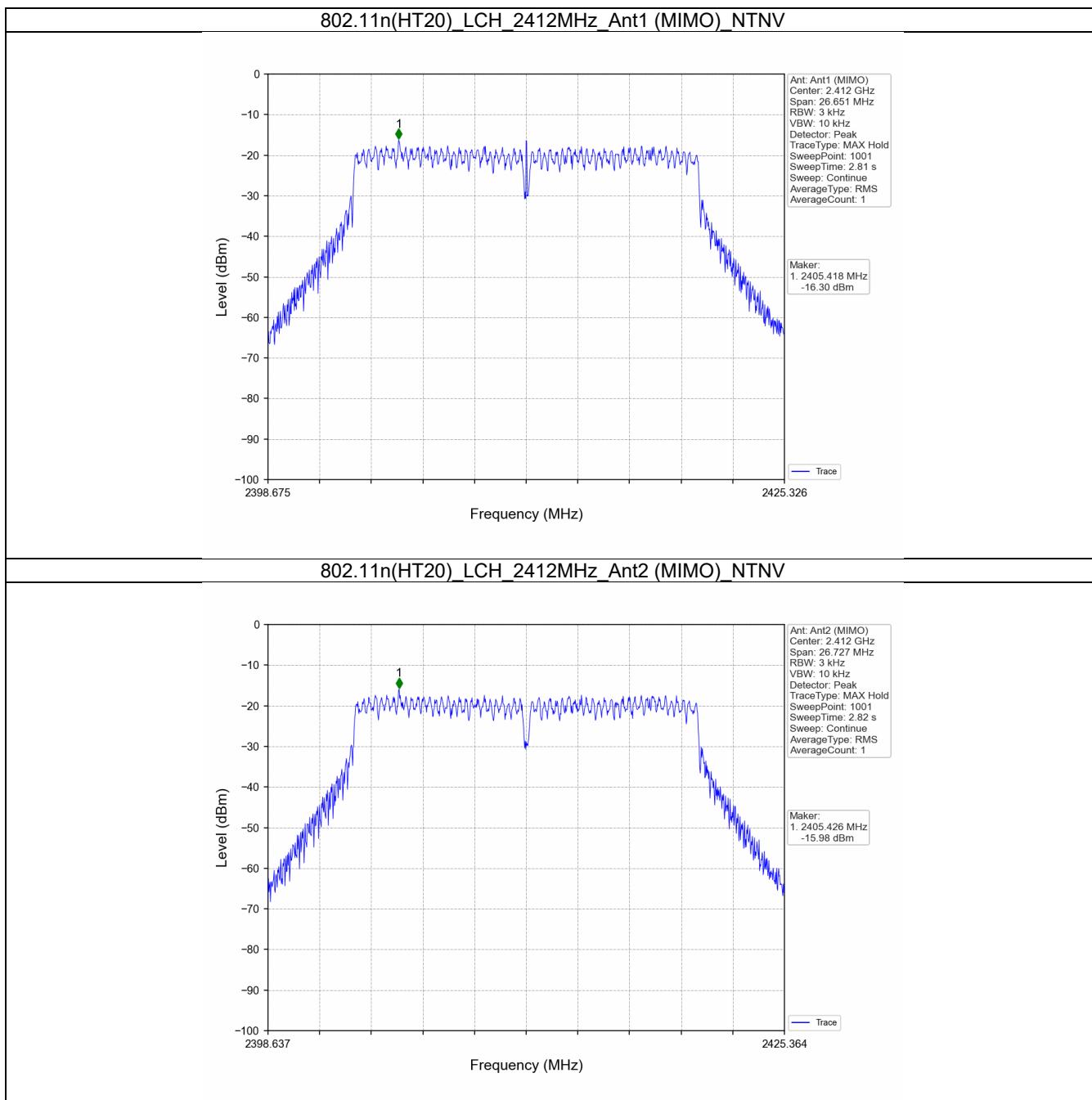


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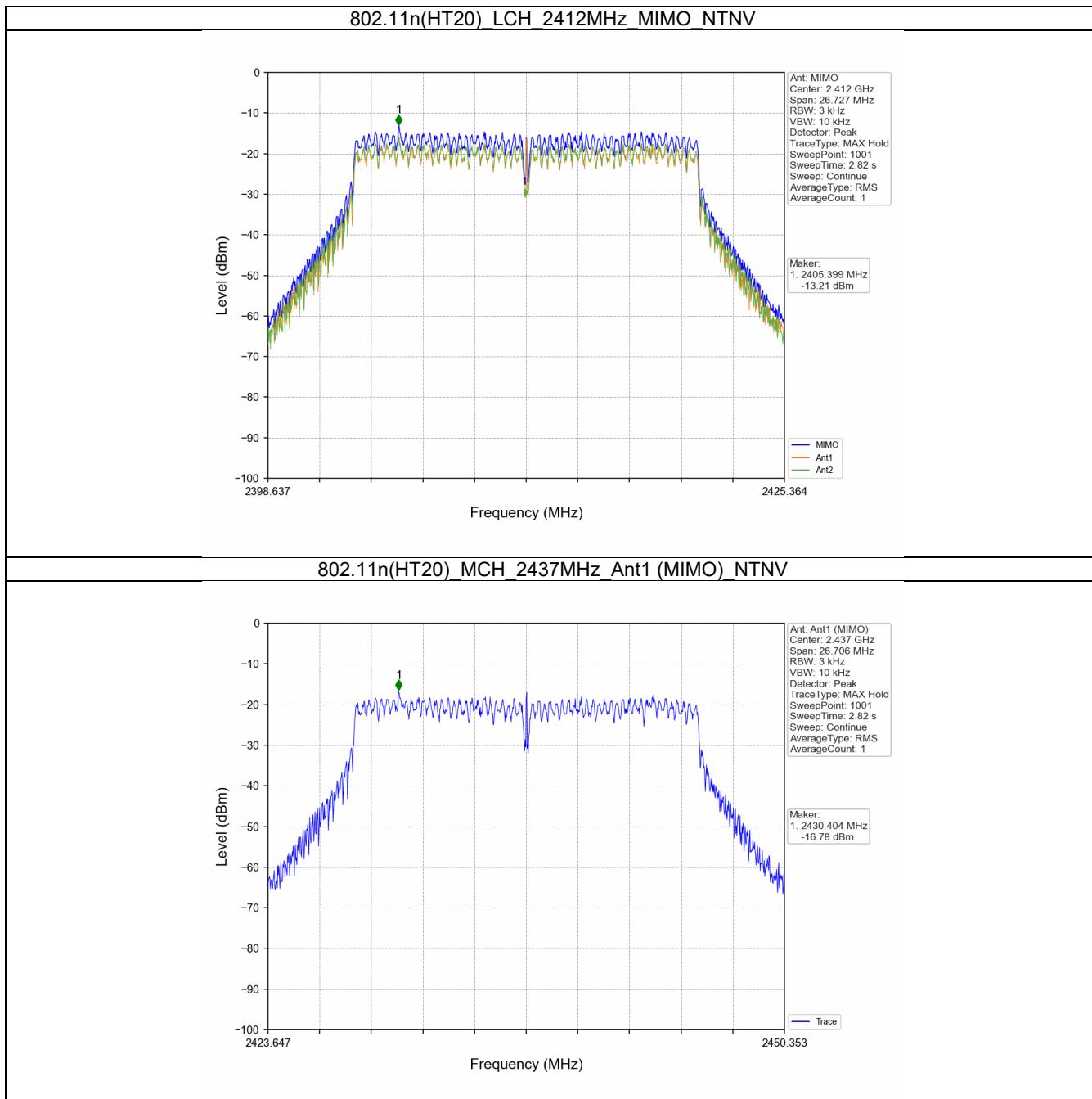
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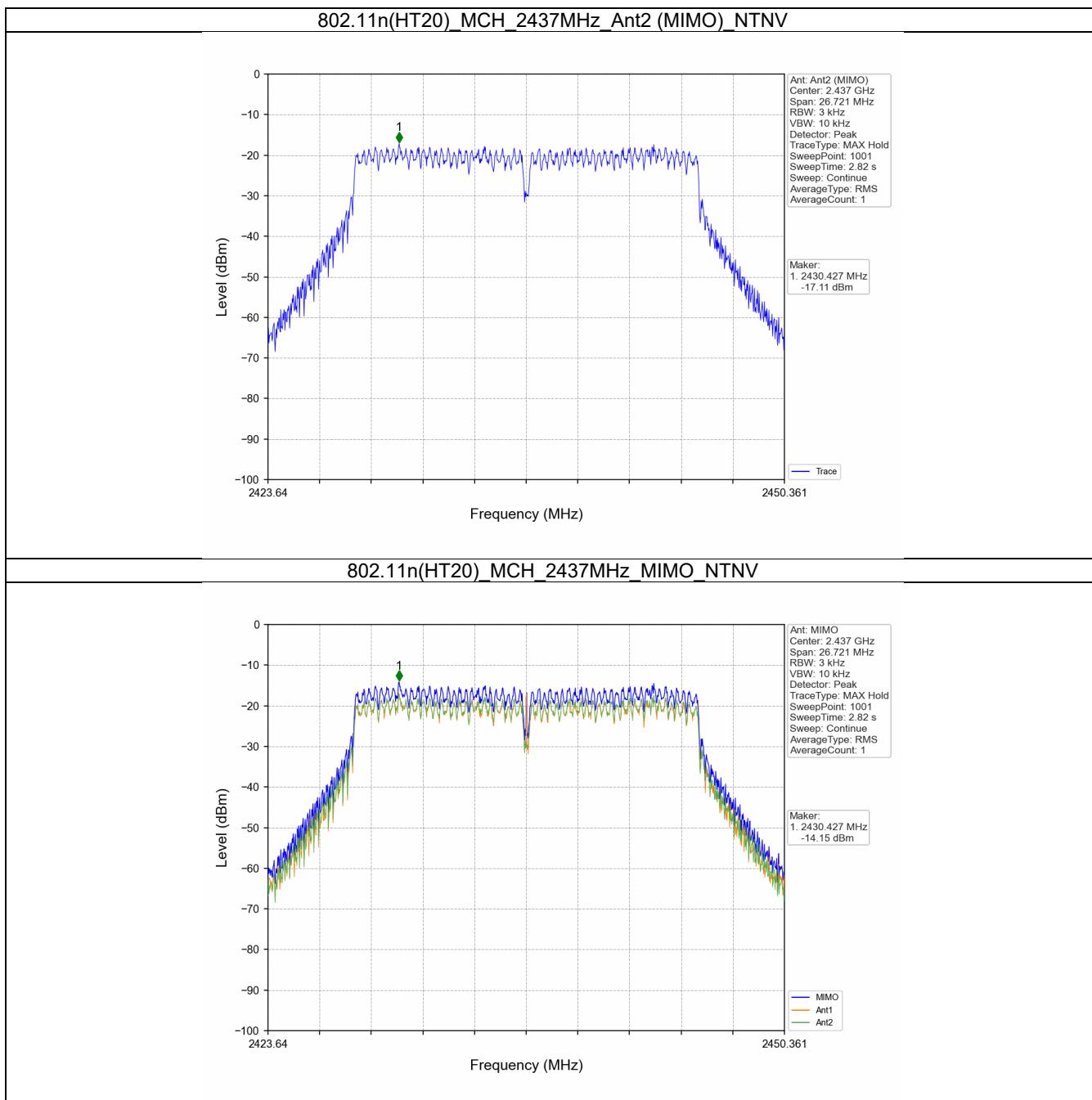
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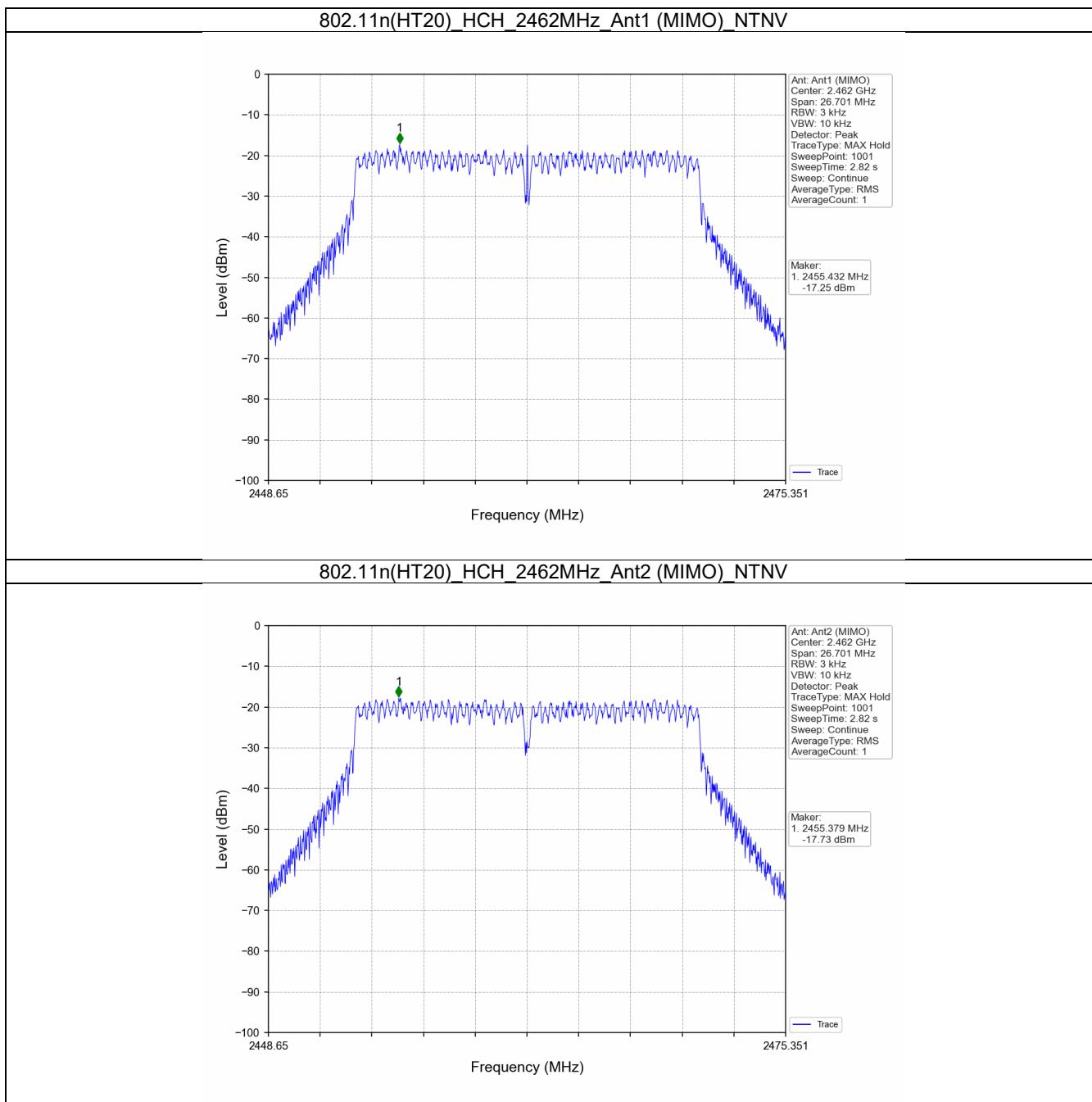


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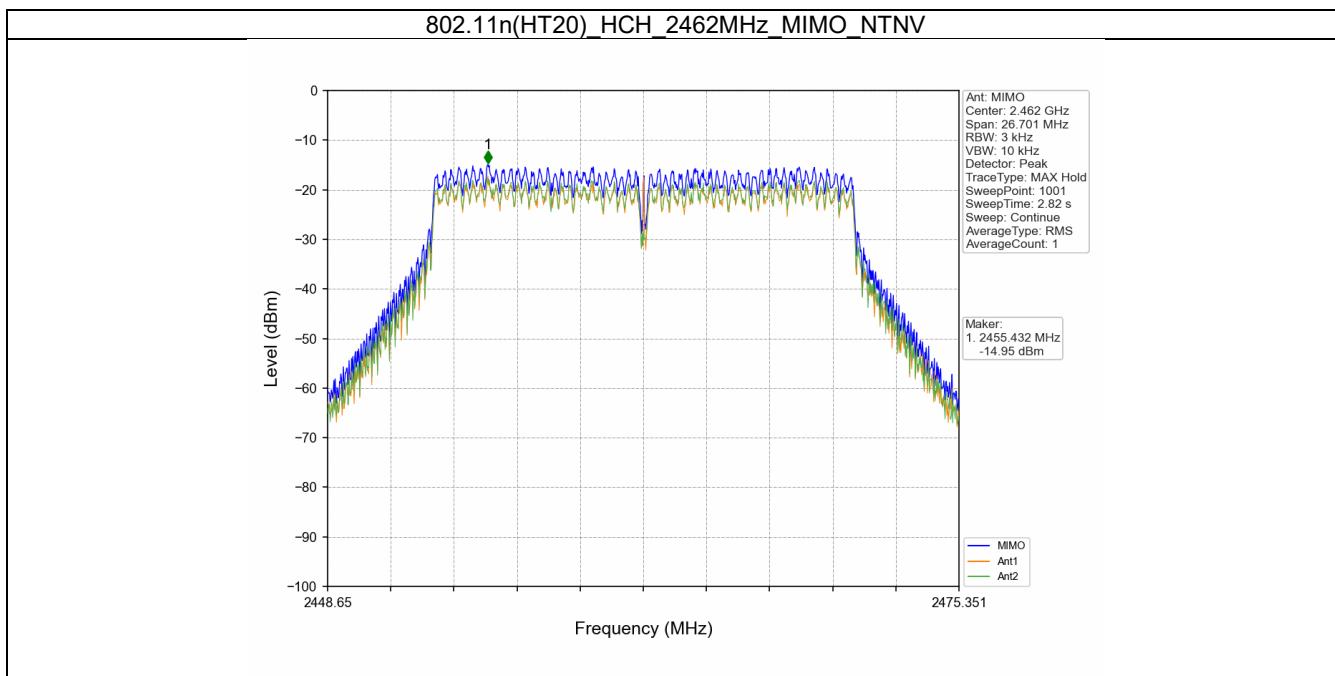
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.34
			2	-8.38
		2437	1	3.83
			2	2.92
		2462	1	3.41
			2	2.42
802.11g	SISO	2412	1	-0.37
			2	-0.99
		2437	1	-1.06
			2	-1.64
		2462	1	-1.47
			2	-2.15
802.11n (HT20)	MIMO	2412	1	-3.07
			2	-2.60
		2437	1	-3.34
			2	-3.16
		2462	1	-3.81
			2	-3.40

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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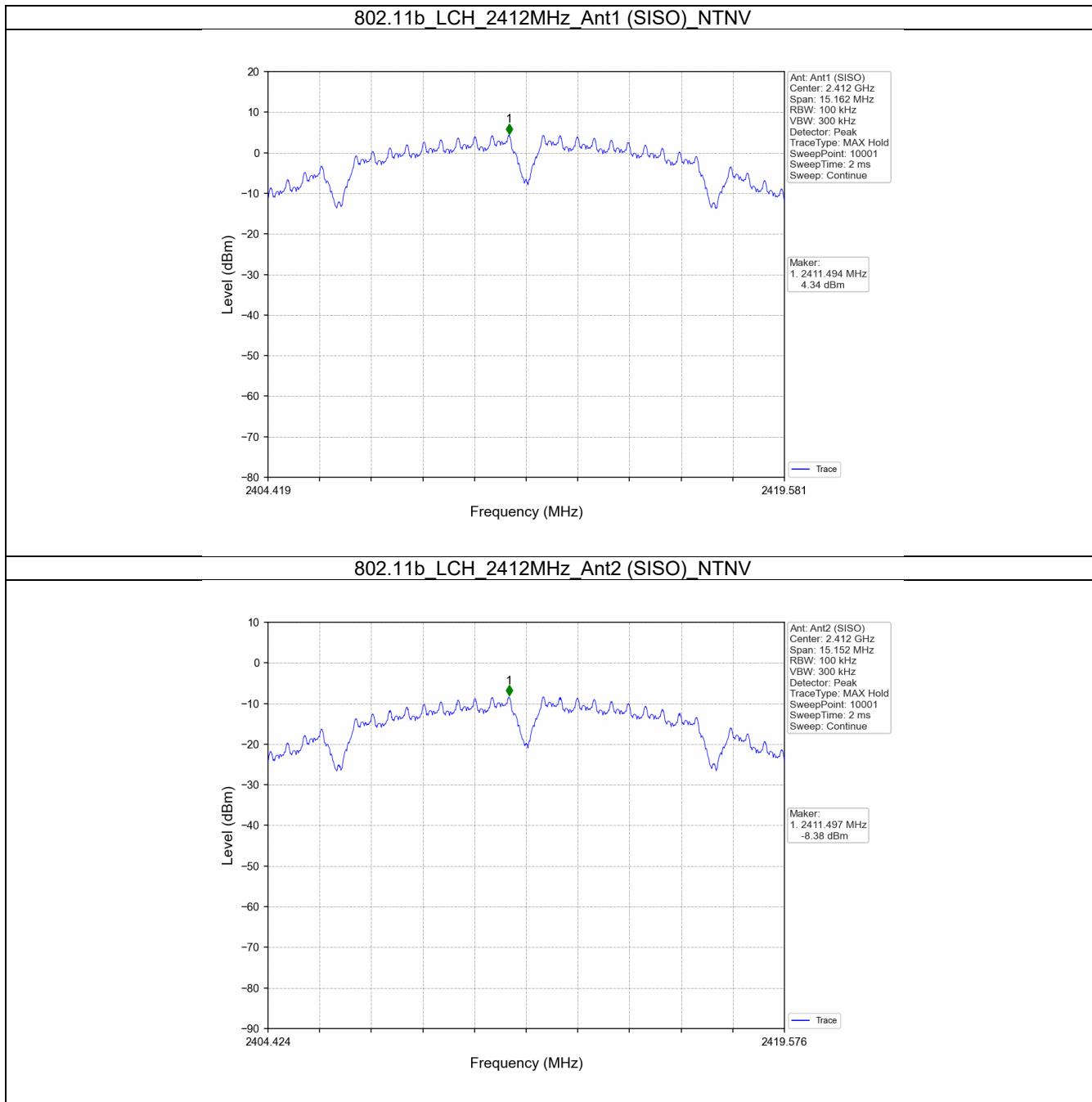
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## 5.1.2 Test Graph



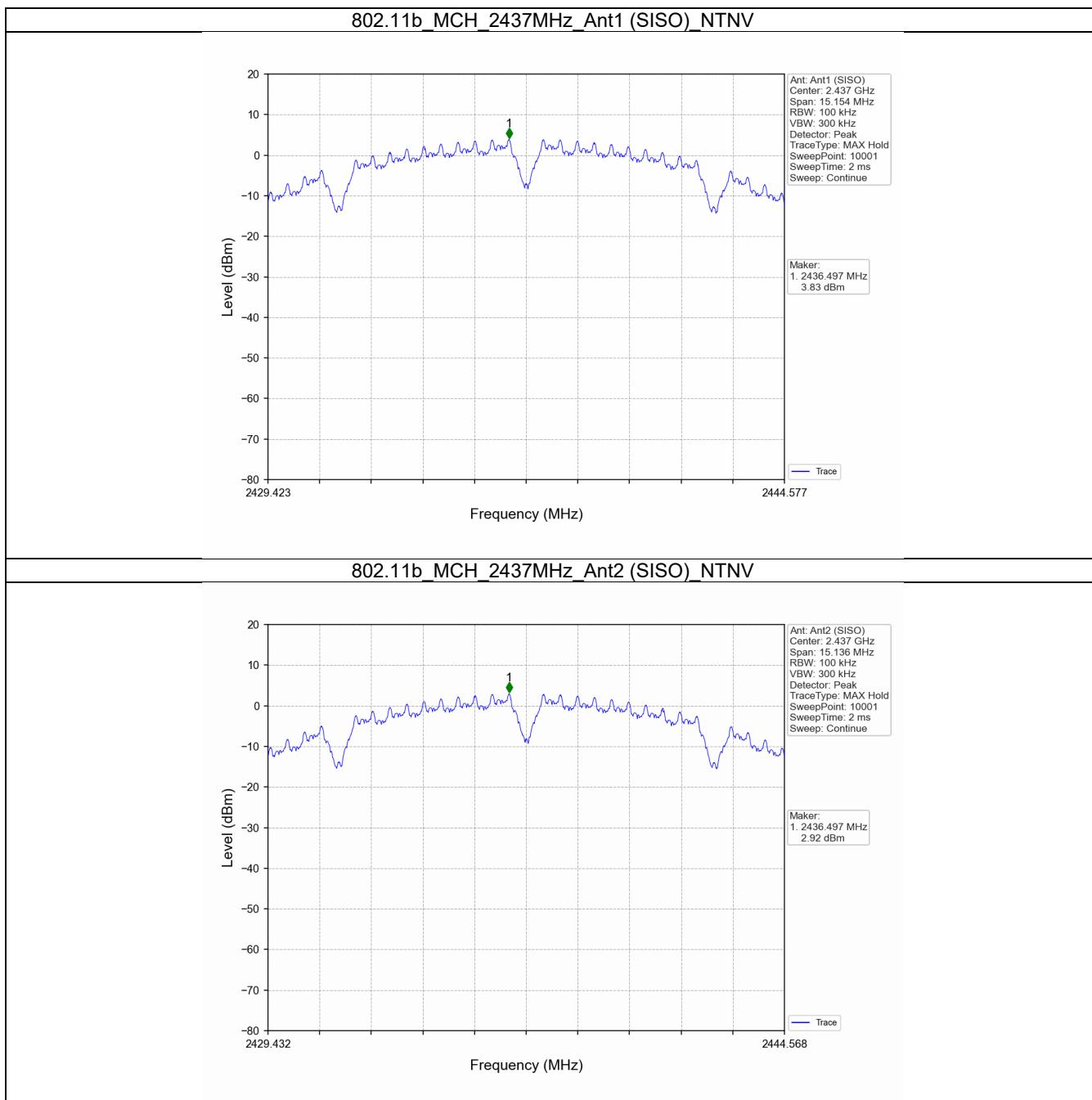
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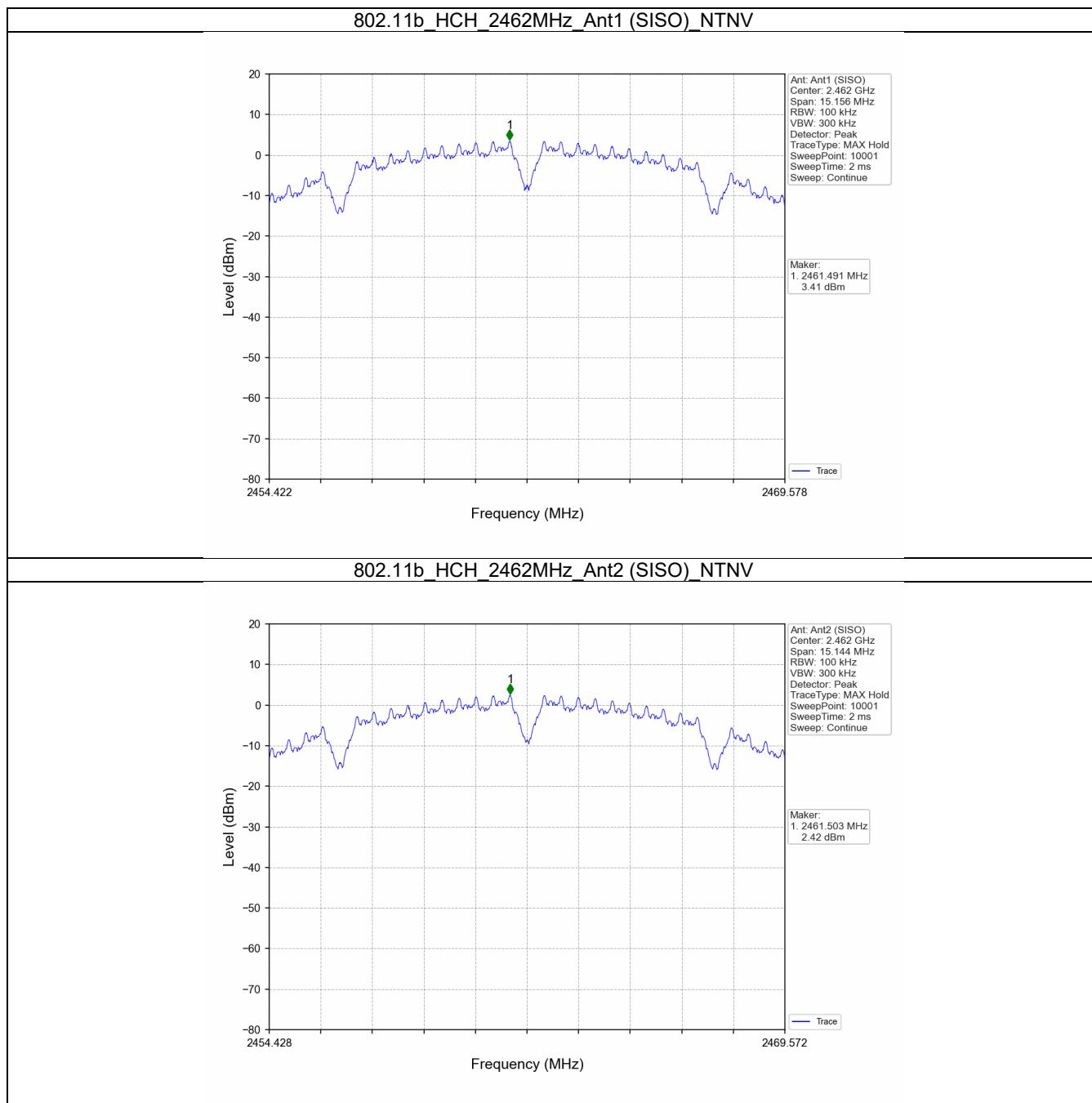
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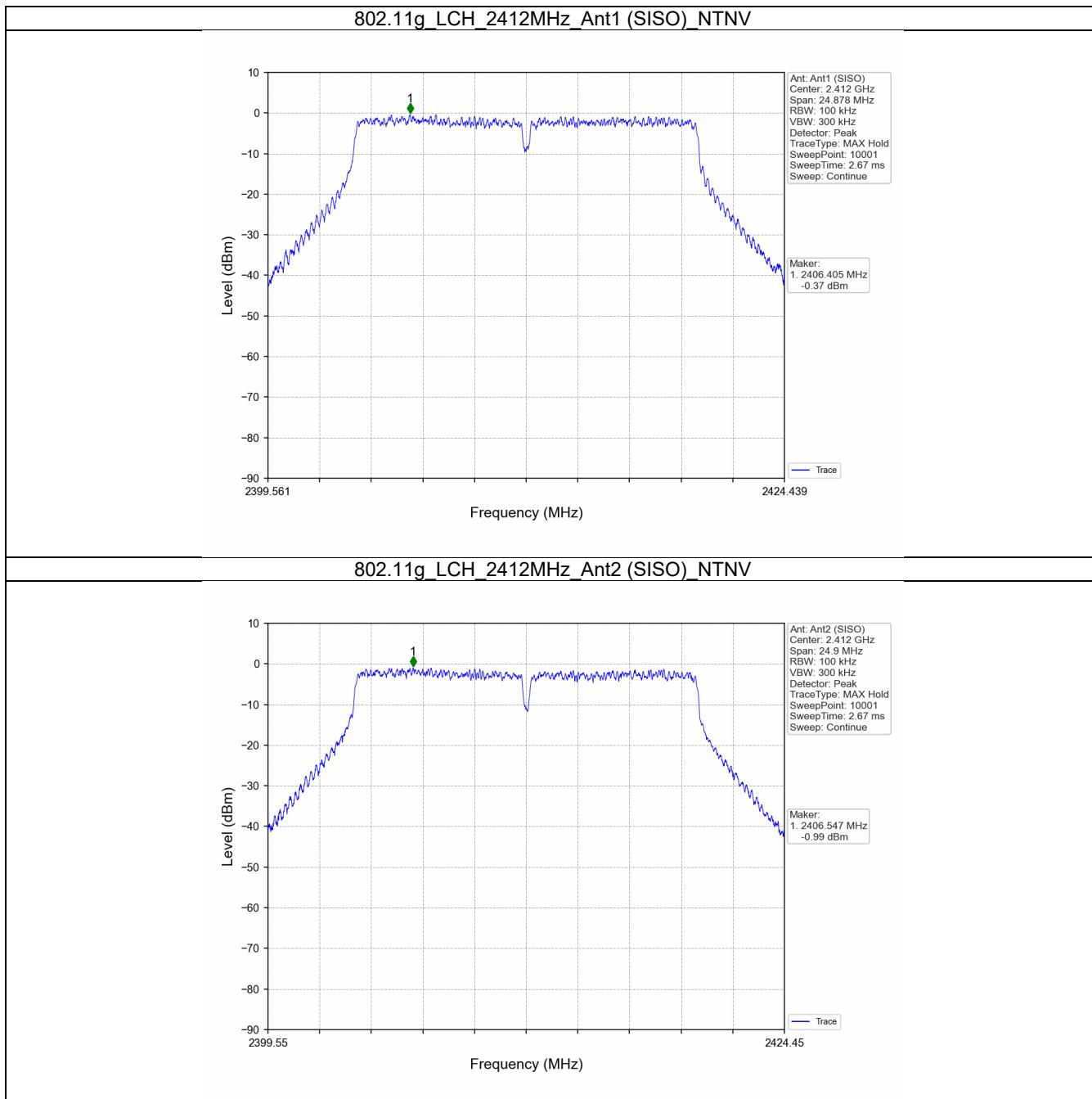
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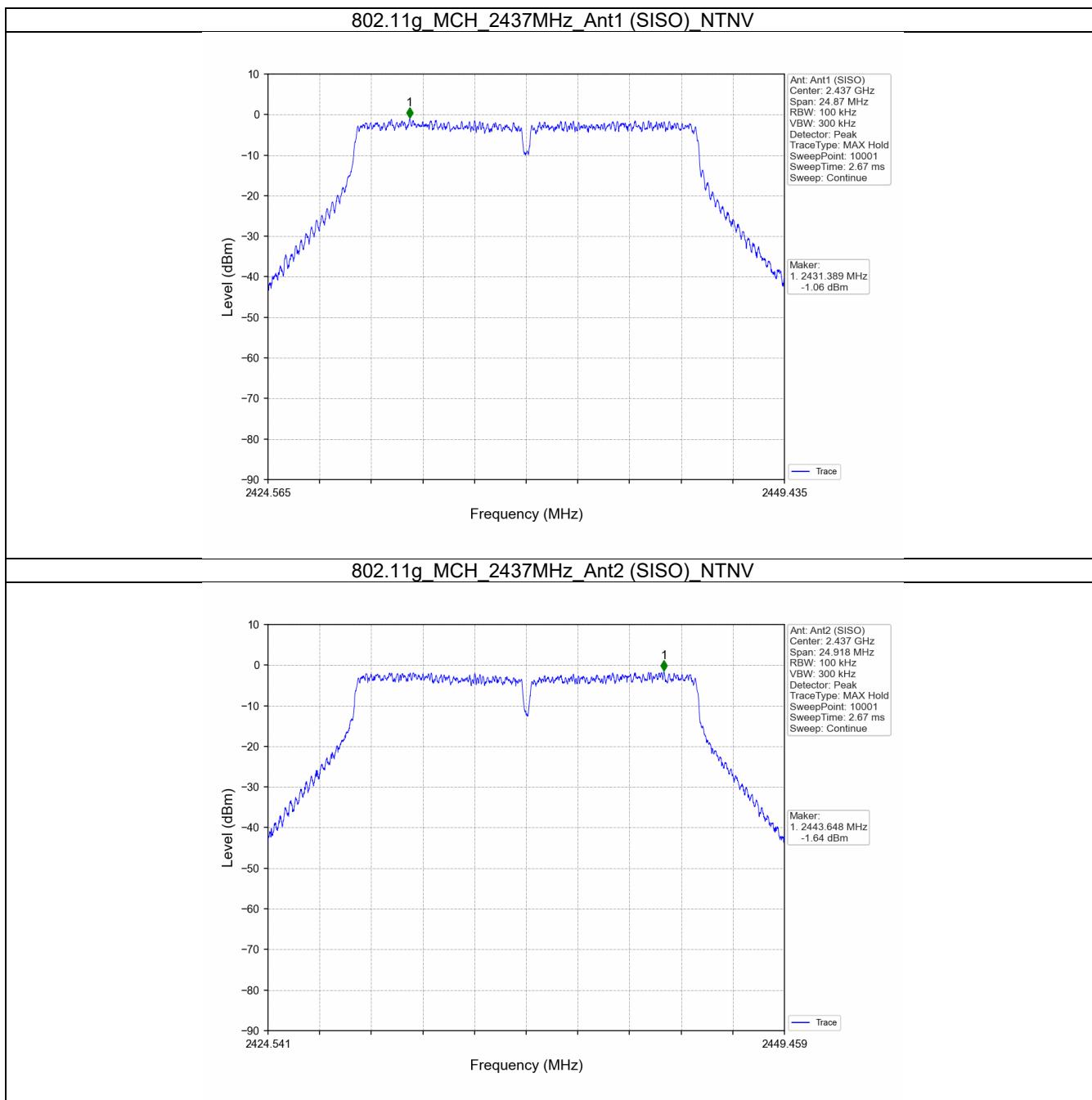
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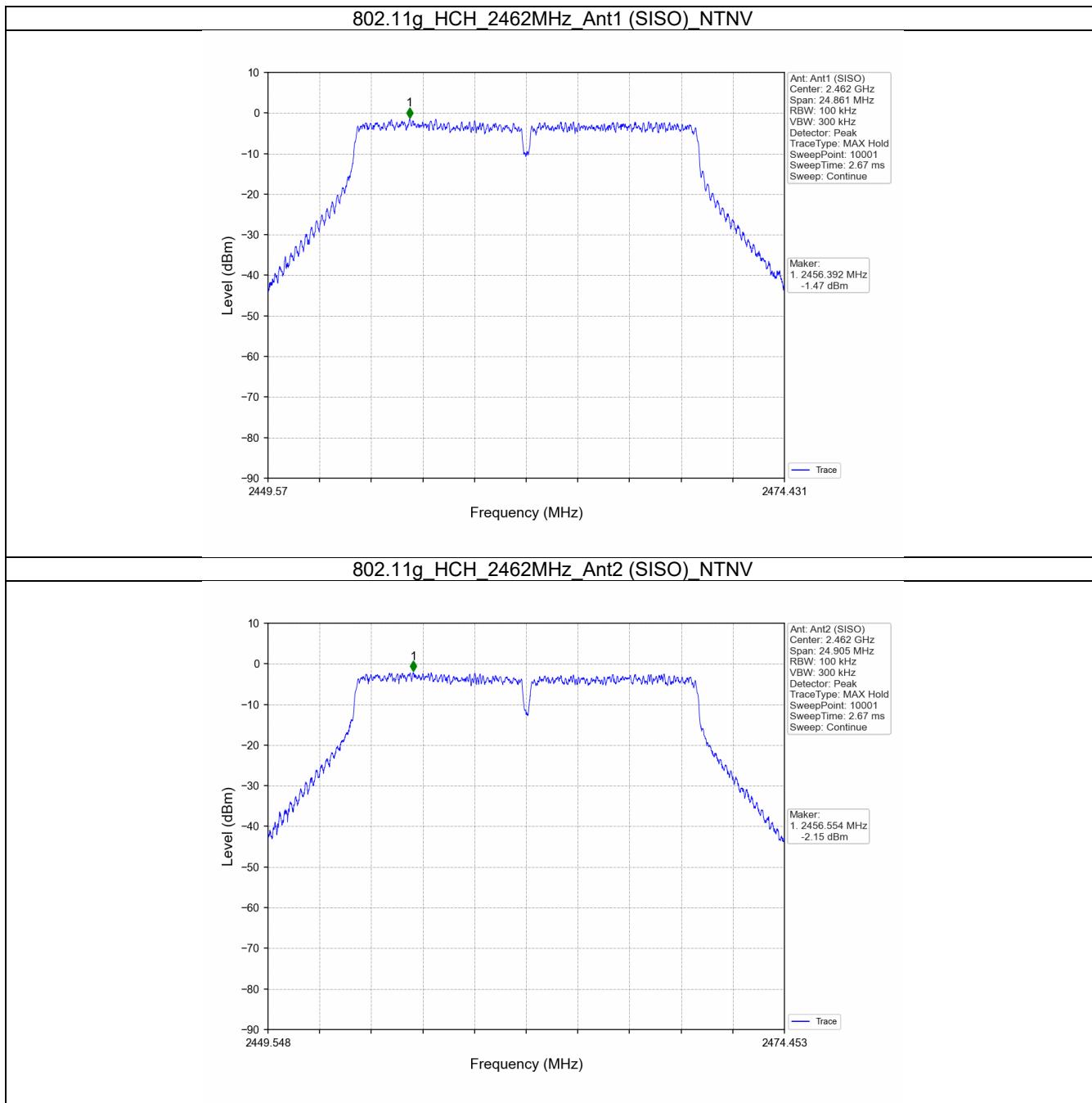
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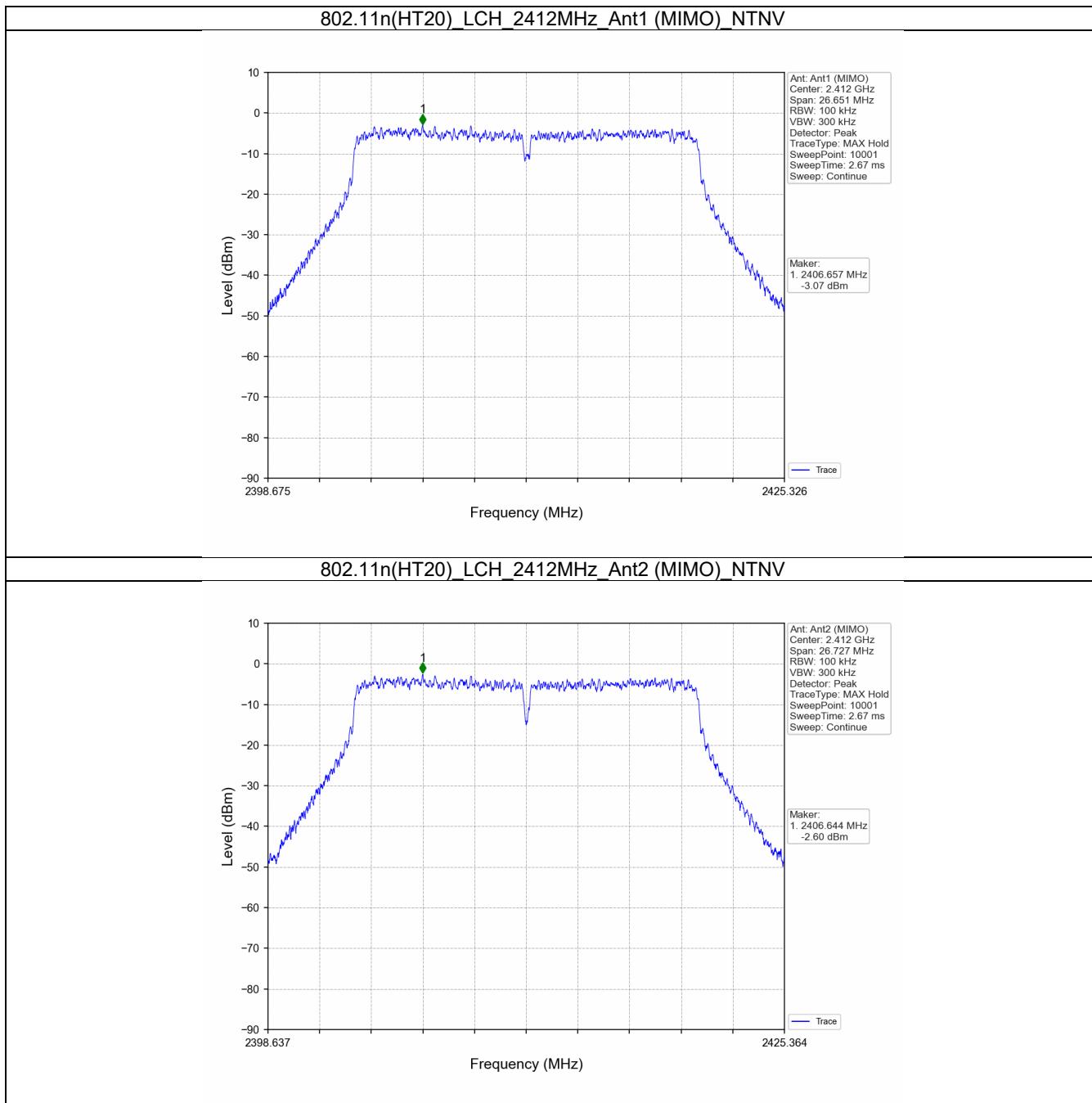
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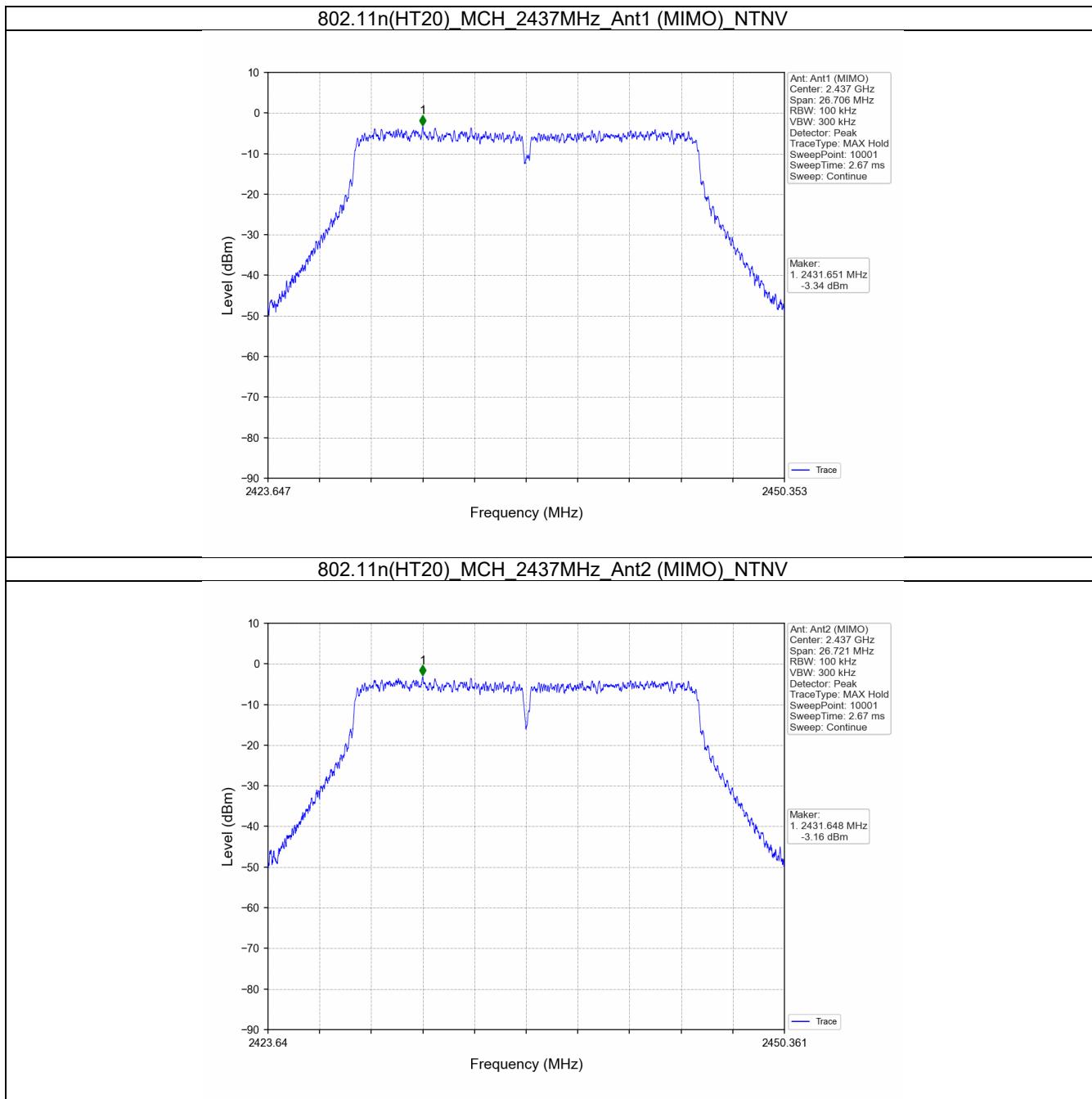
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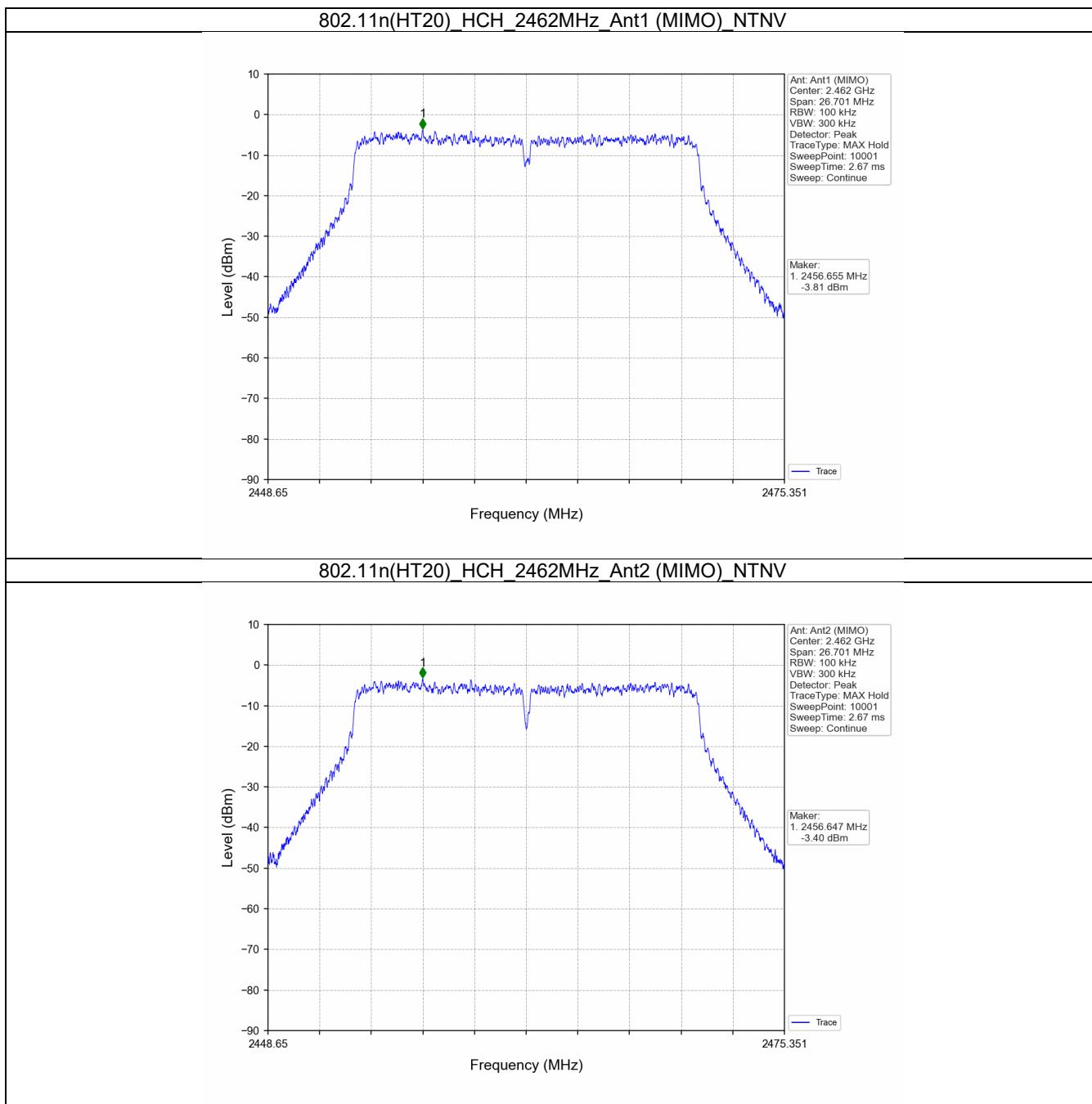
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## 5.2 CSE

## 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.34	-25.66	Pass
			2	2.92	-27.08	Pass
		2437	1	4.34	-25.66	Pass
			2	2.92	-27.08	Pass
		2462	1	4.34	-25.66	Pass
			2	2.92	-27.08	Pass
		2412	1	-0.37	-30.37	Pass
			2	-0.99	-30.99	Pass
802.11g	SISO	2437	1	-0.37	-30.37	Pass
			2	-0.99	-30.99	Pass
		2462	1	-0.37	-30.37	Pass
			2	-0.99	-30.99	Pass
		2412	1	-3.07	-33.07	Pass
			2	-2.60	-32.60	Pass
		2437	1	-3.07	-33.07	Pass
			2	-2.60	-32.60	Pass
		2462	1	-3.07	-33.07	Pass
			2	-2.60	-32.60	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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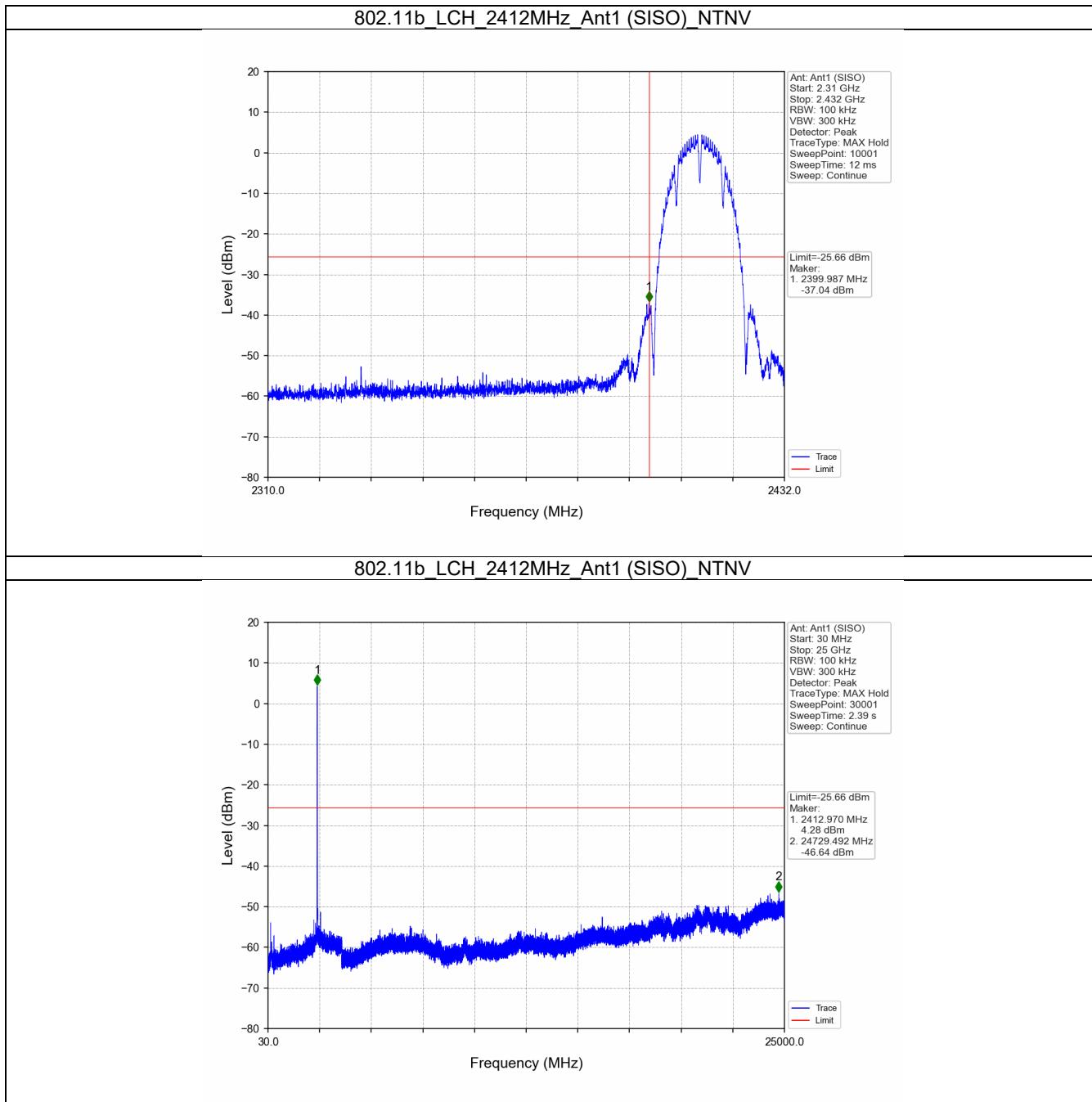
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## 5.2.2 Test Graph



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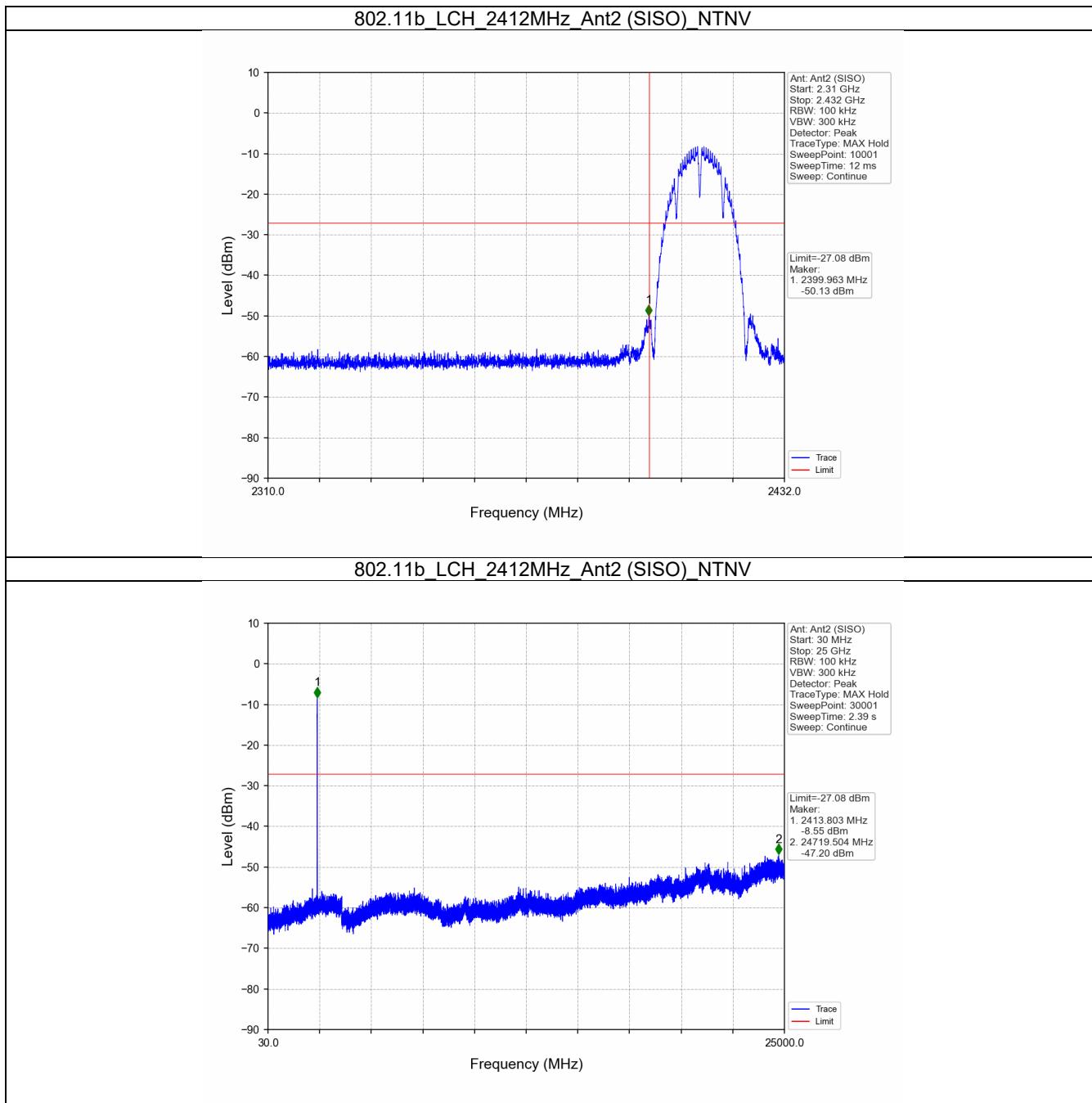
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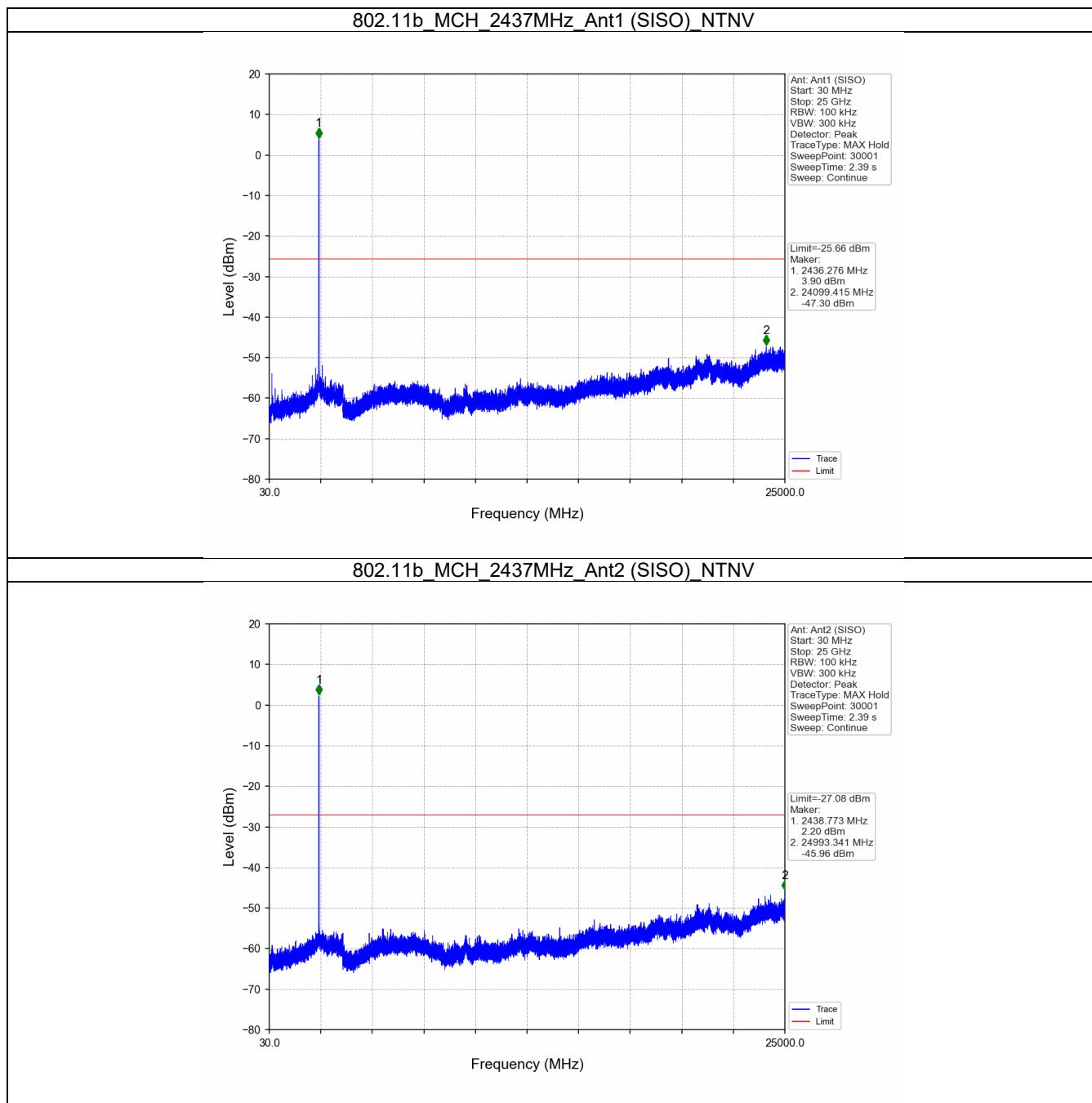
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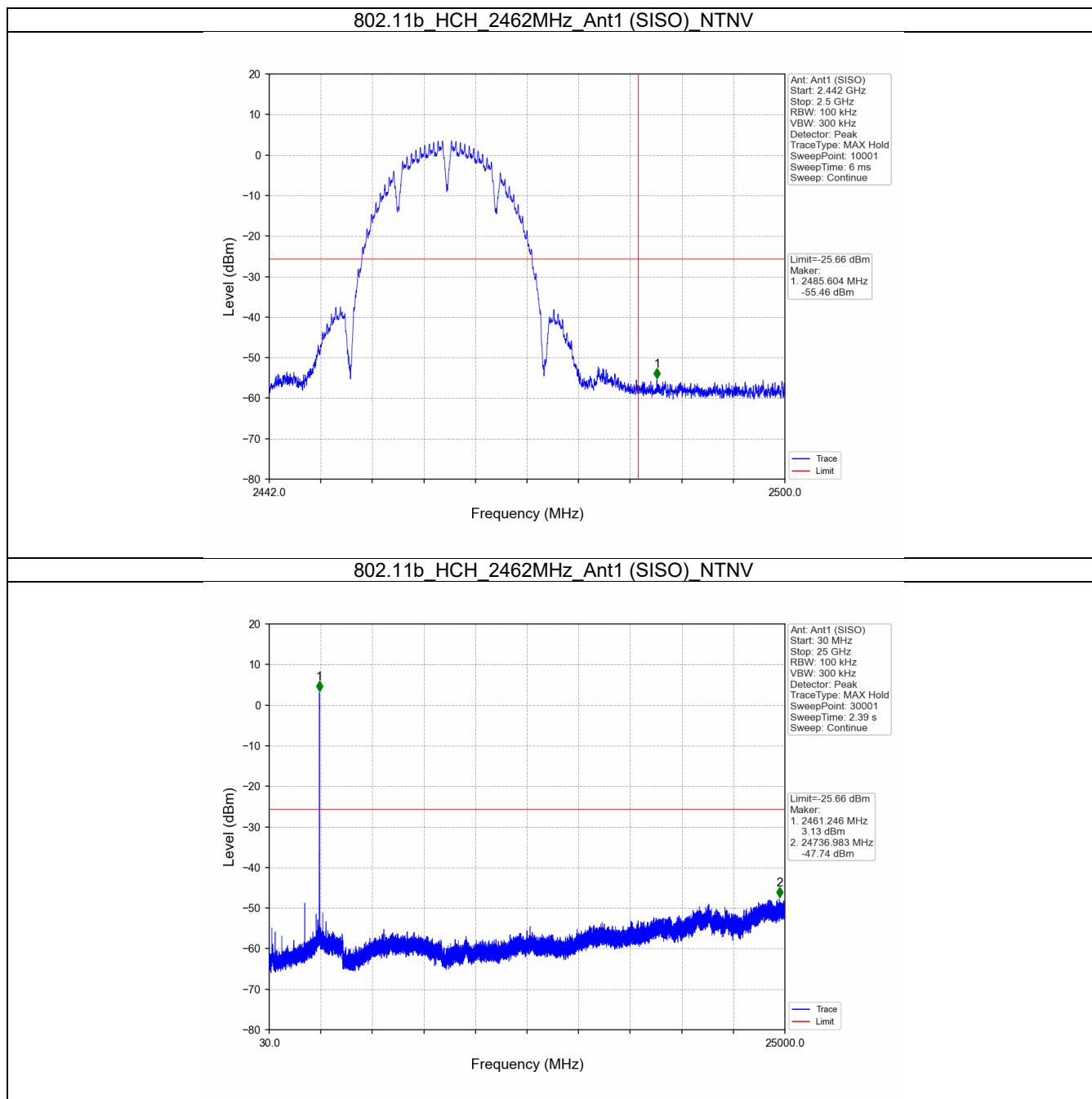
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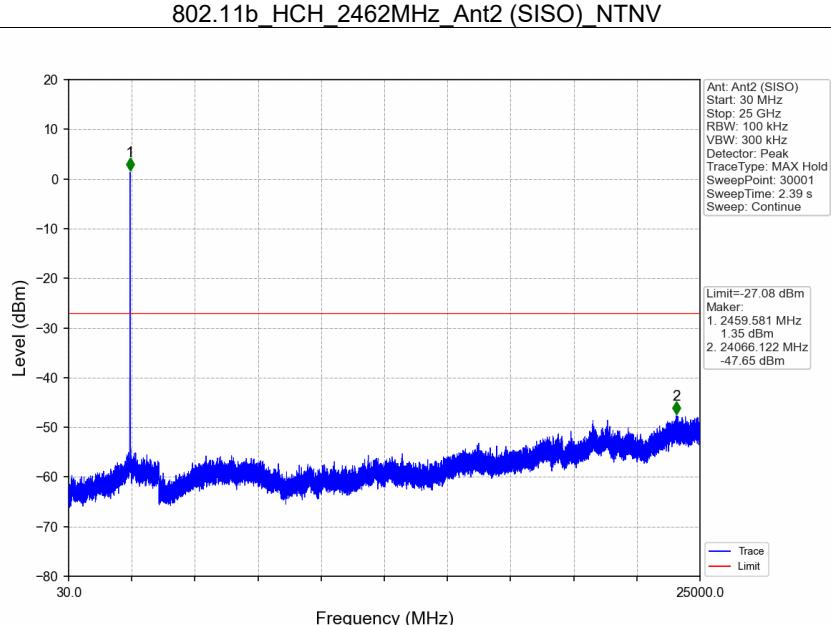
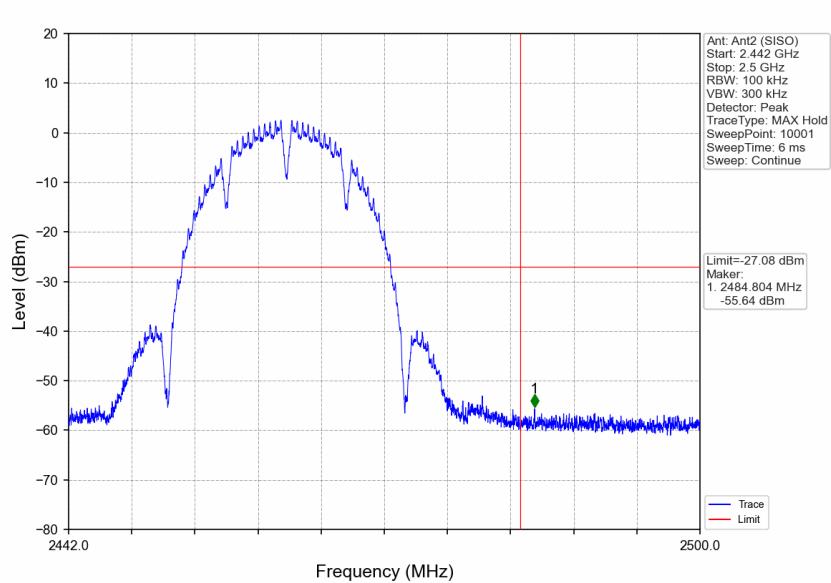
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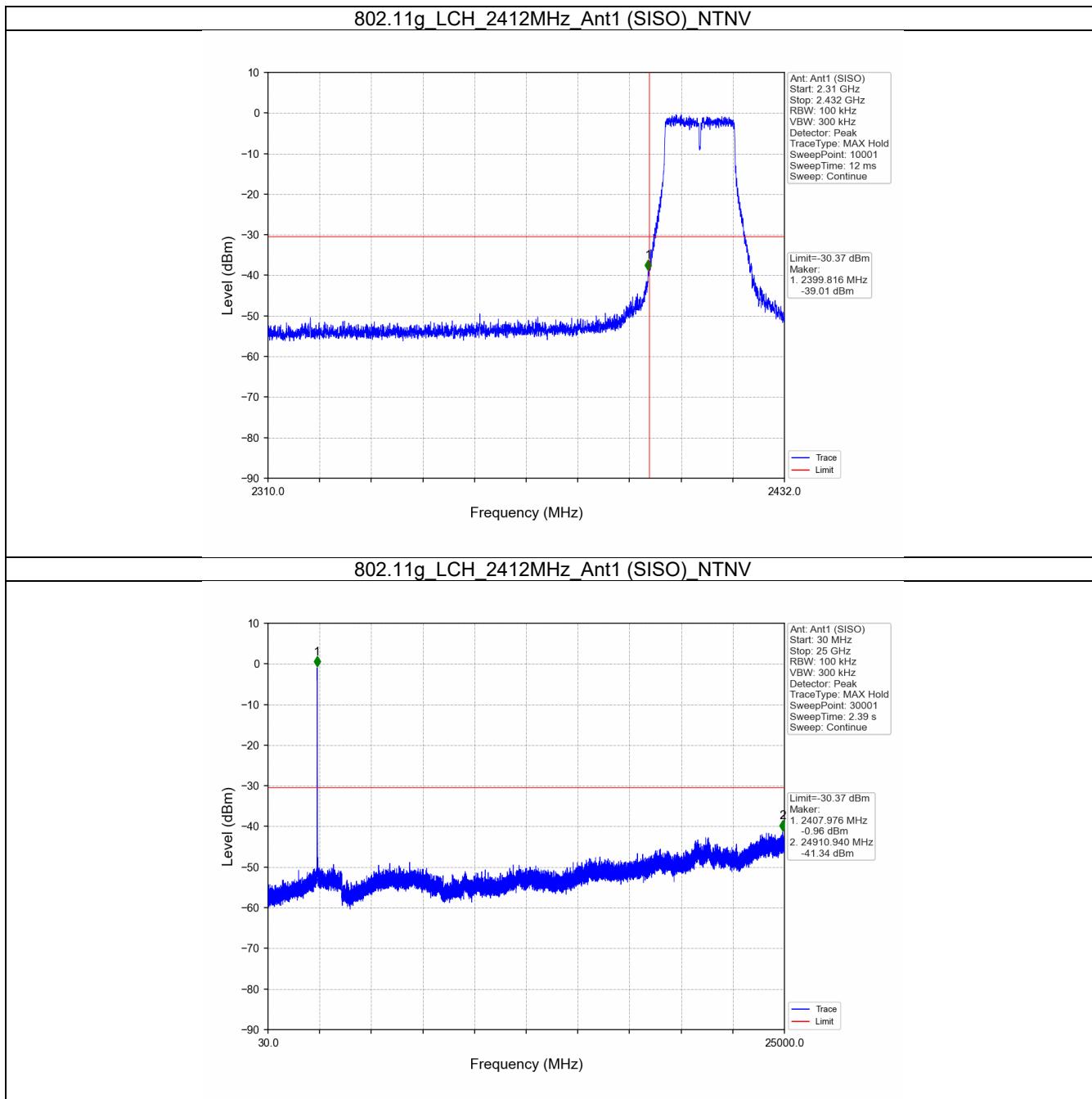
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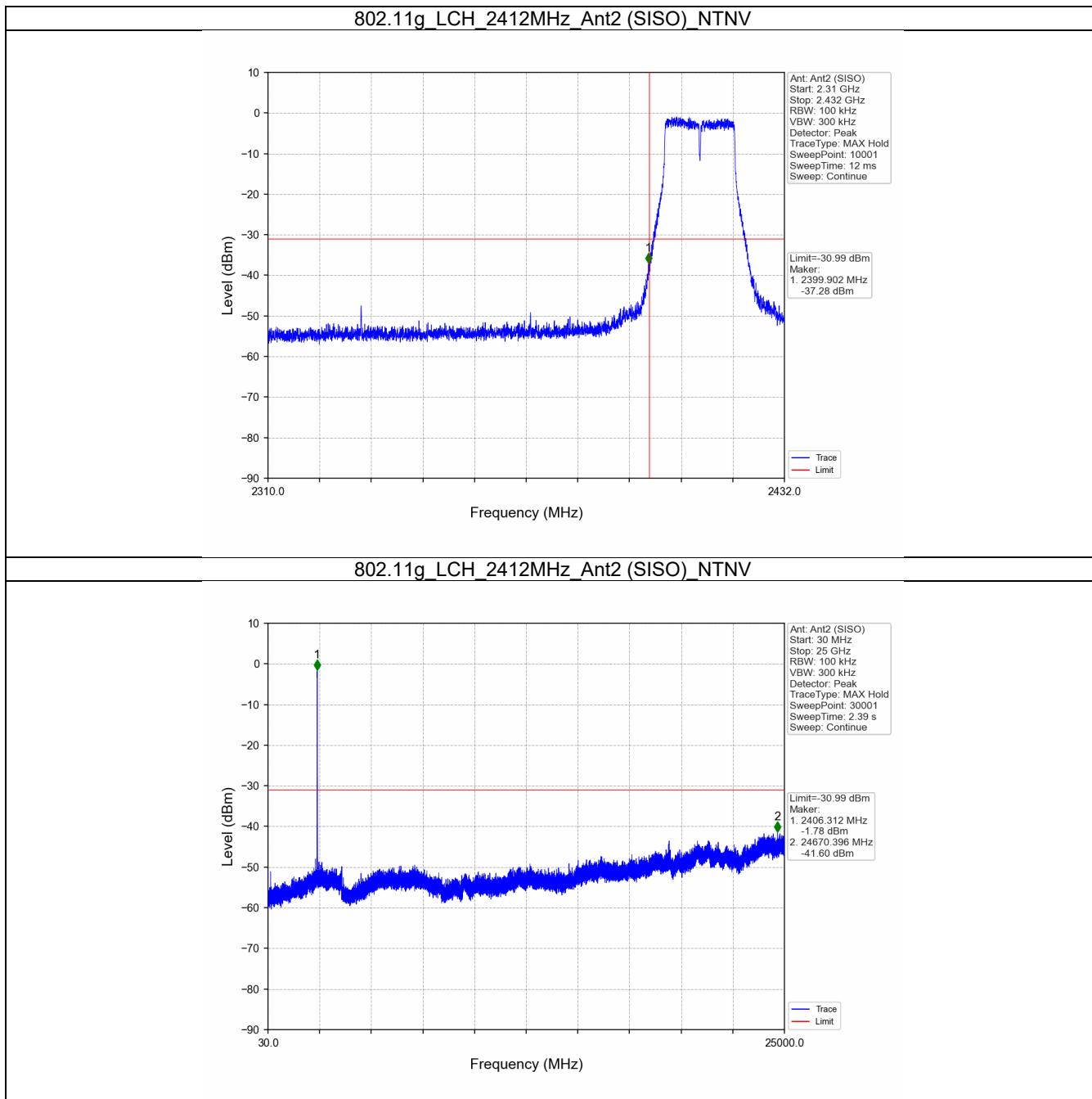
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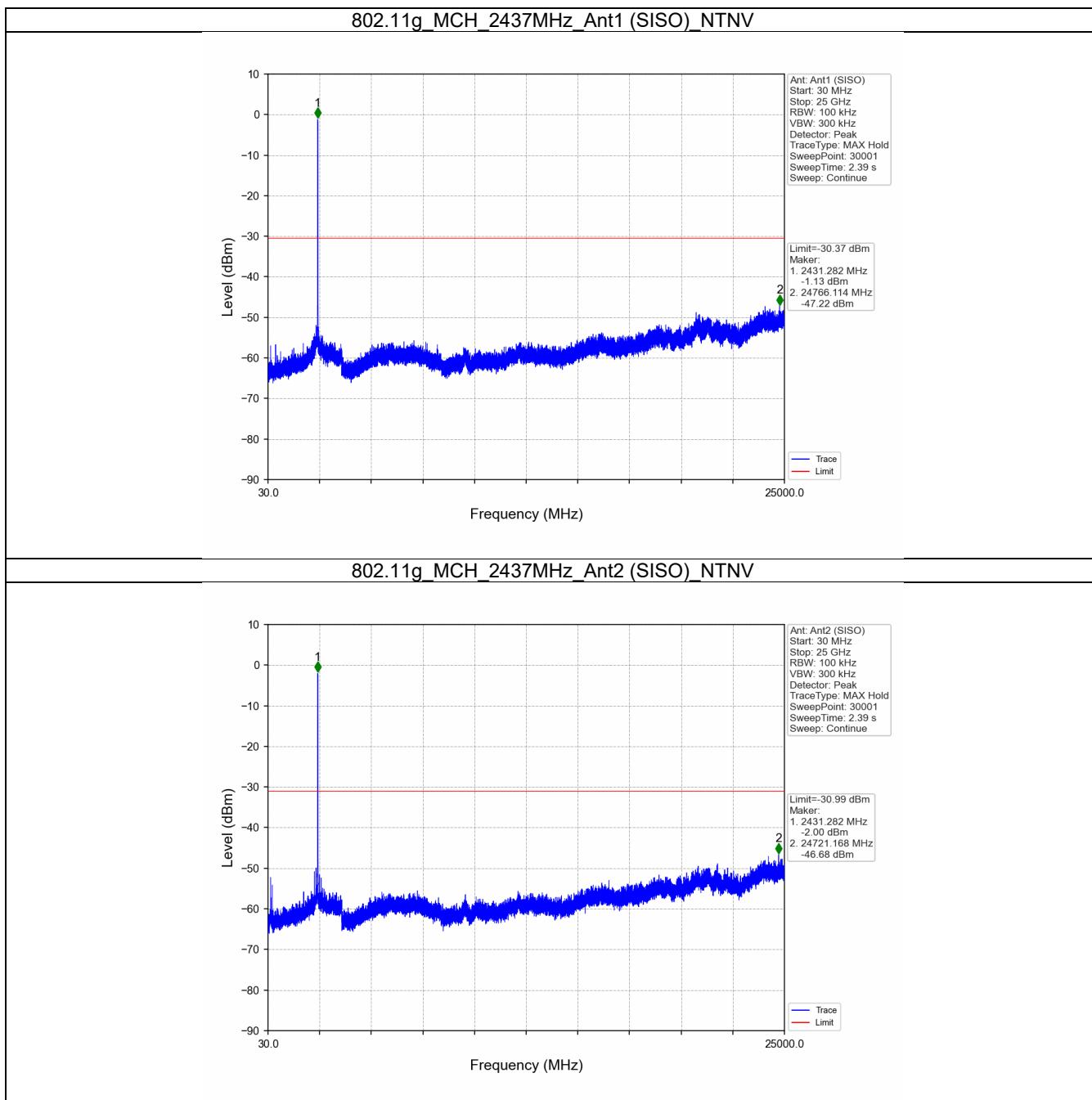
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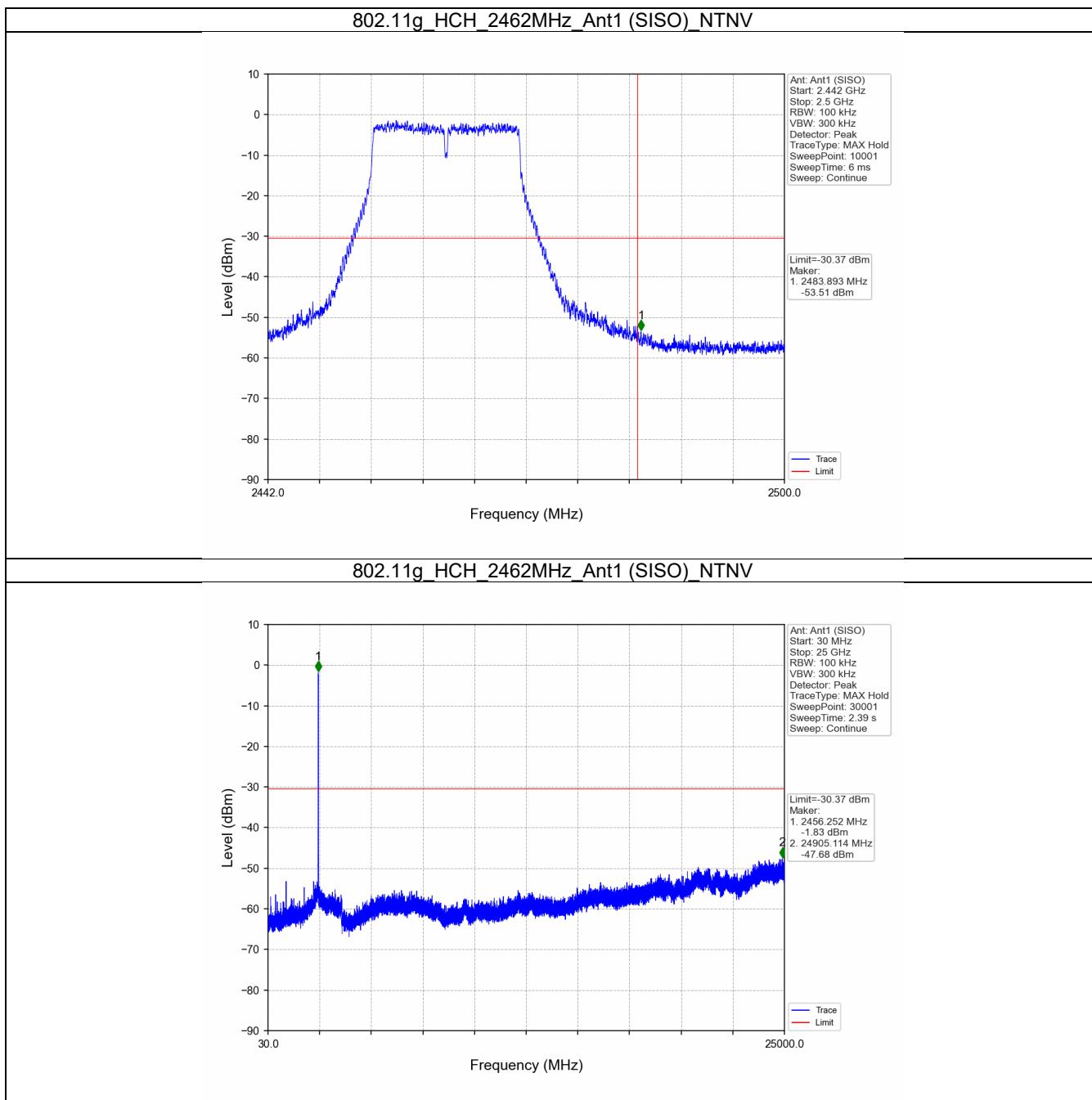
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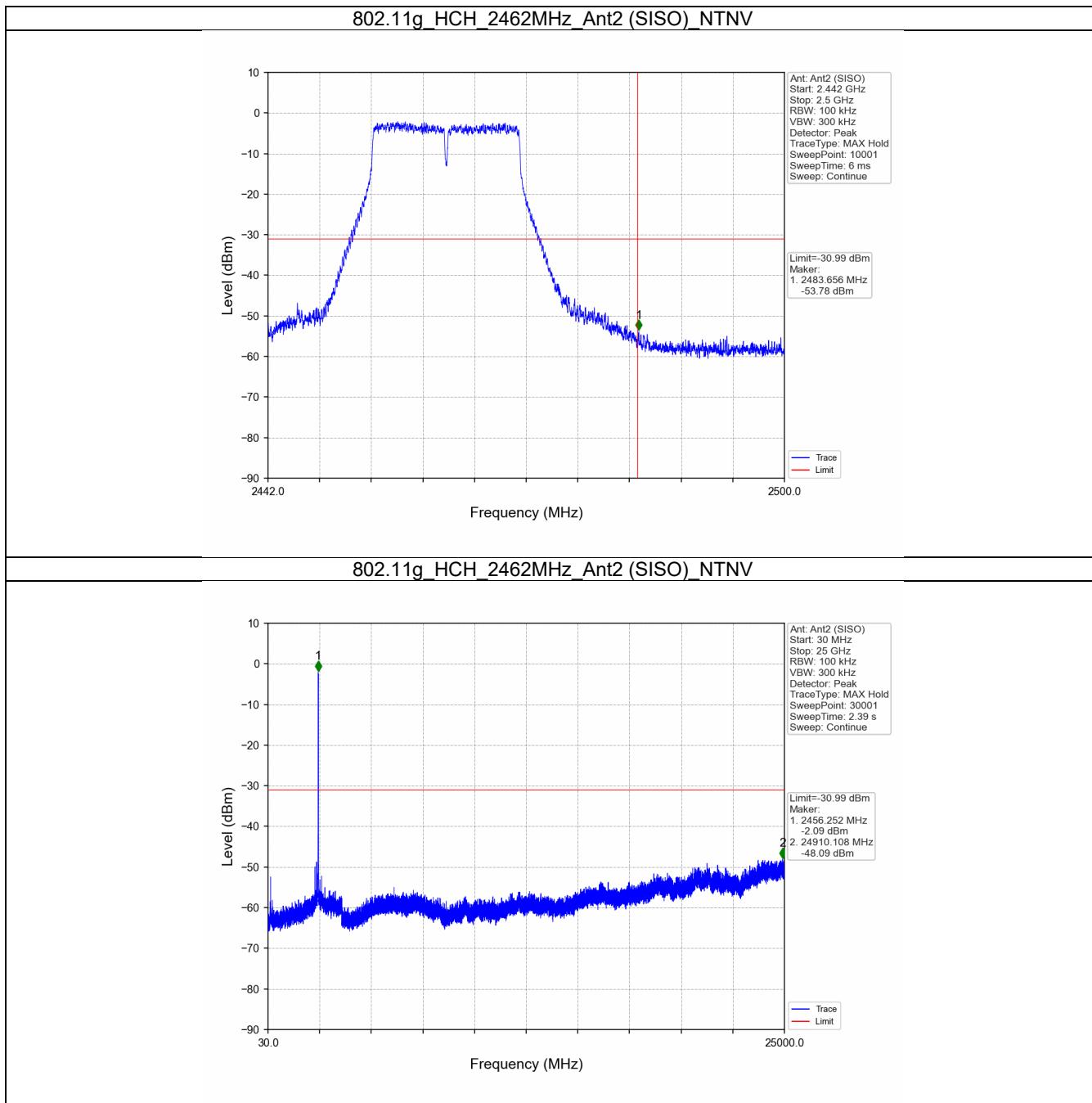
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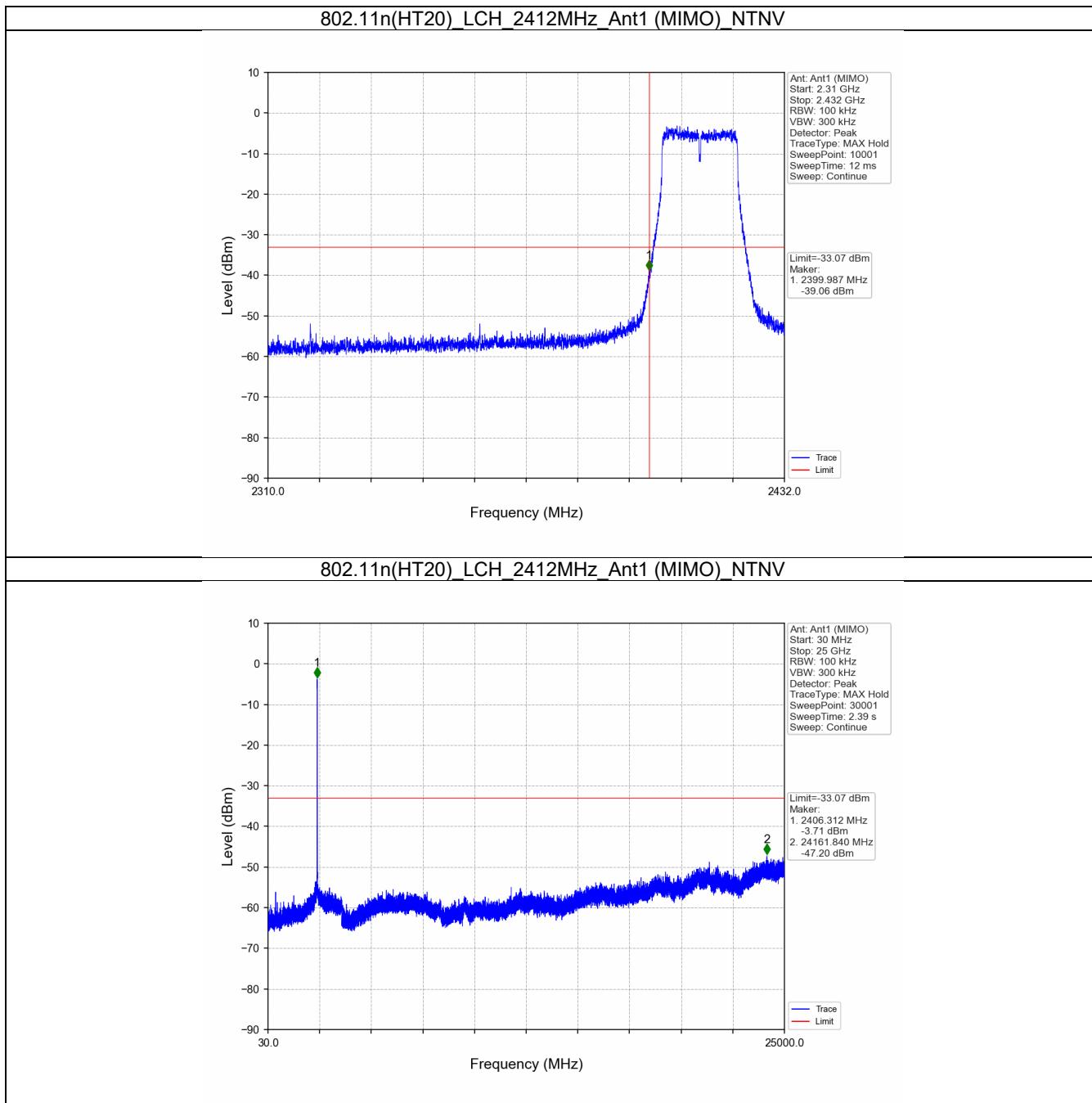
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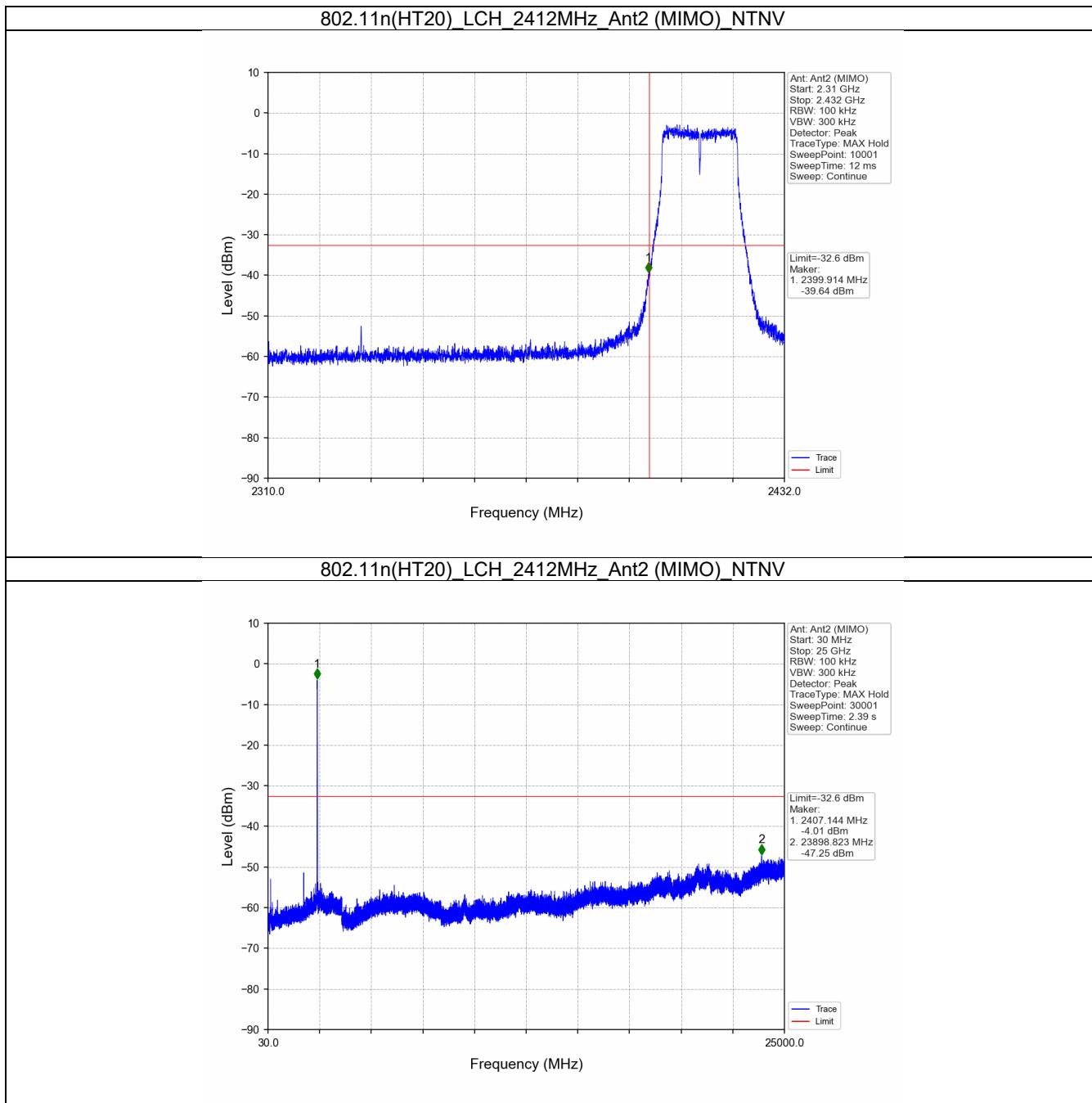
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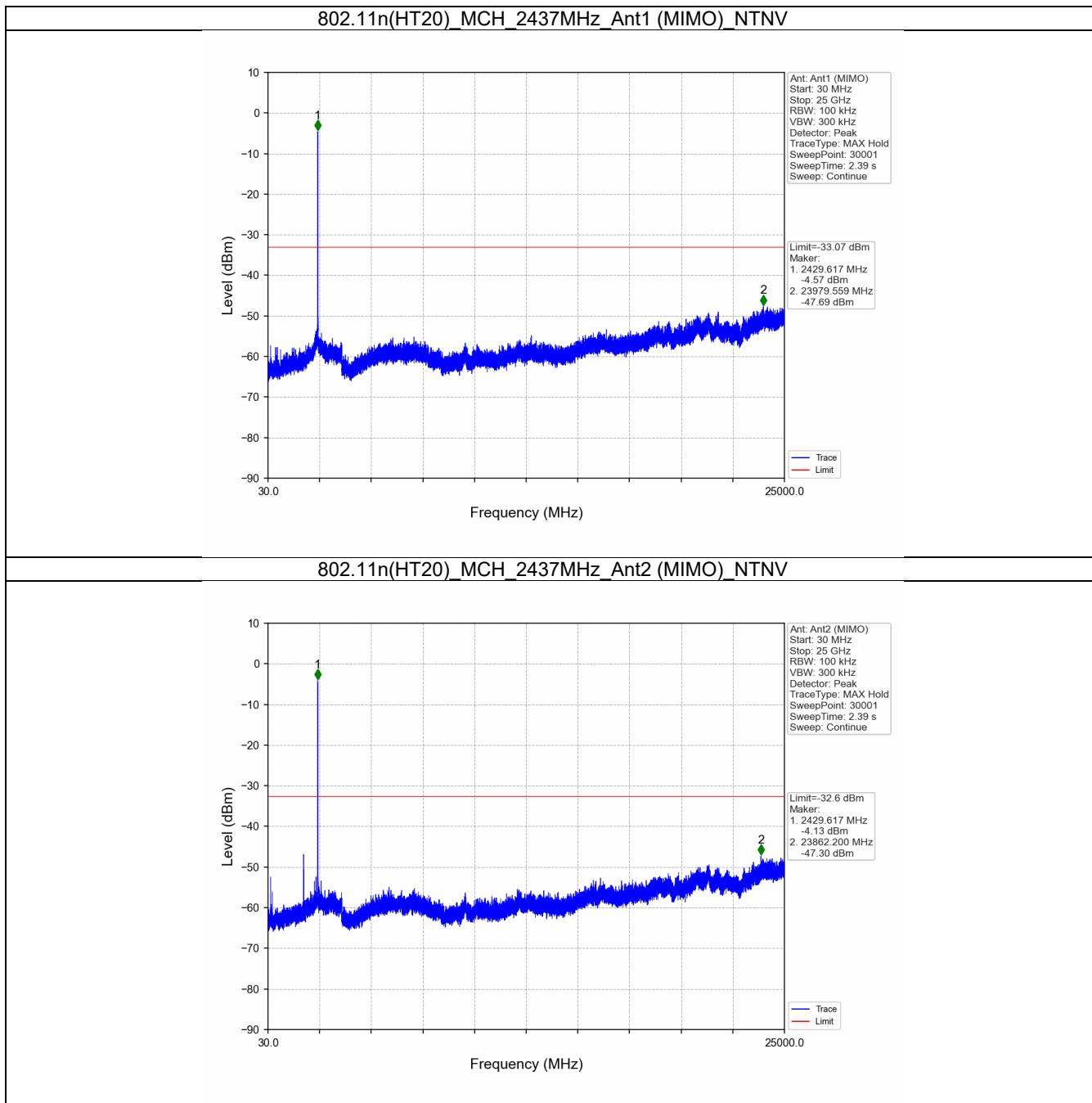
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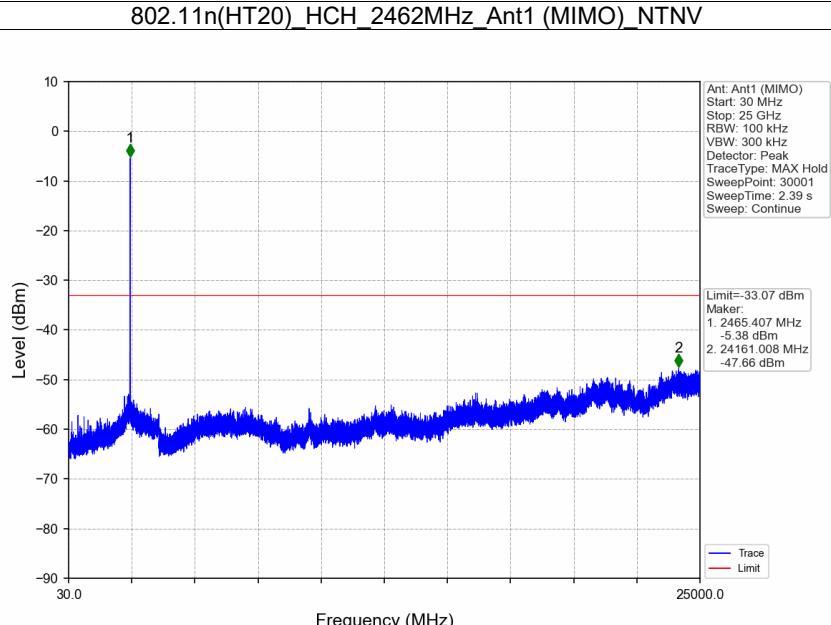
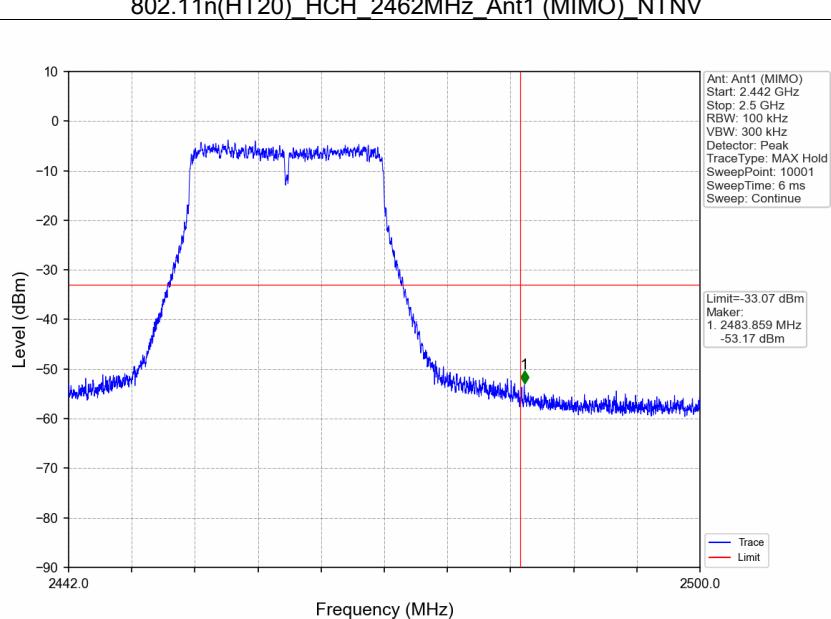
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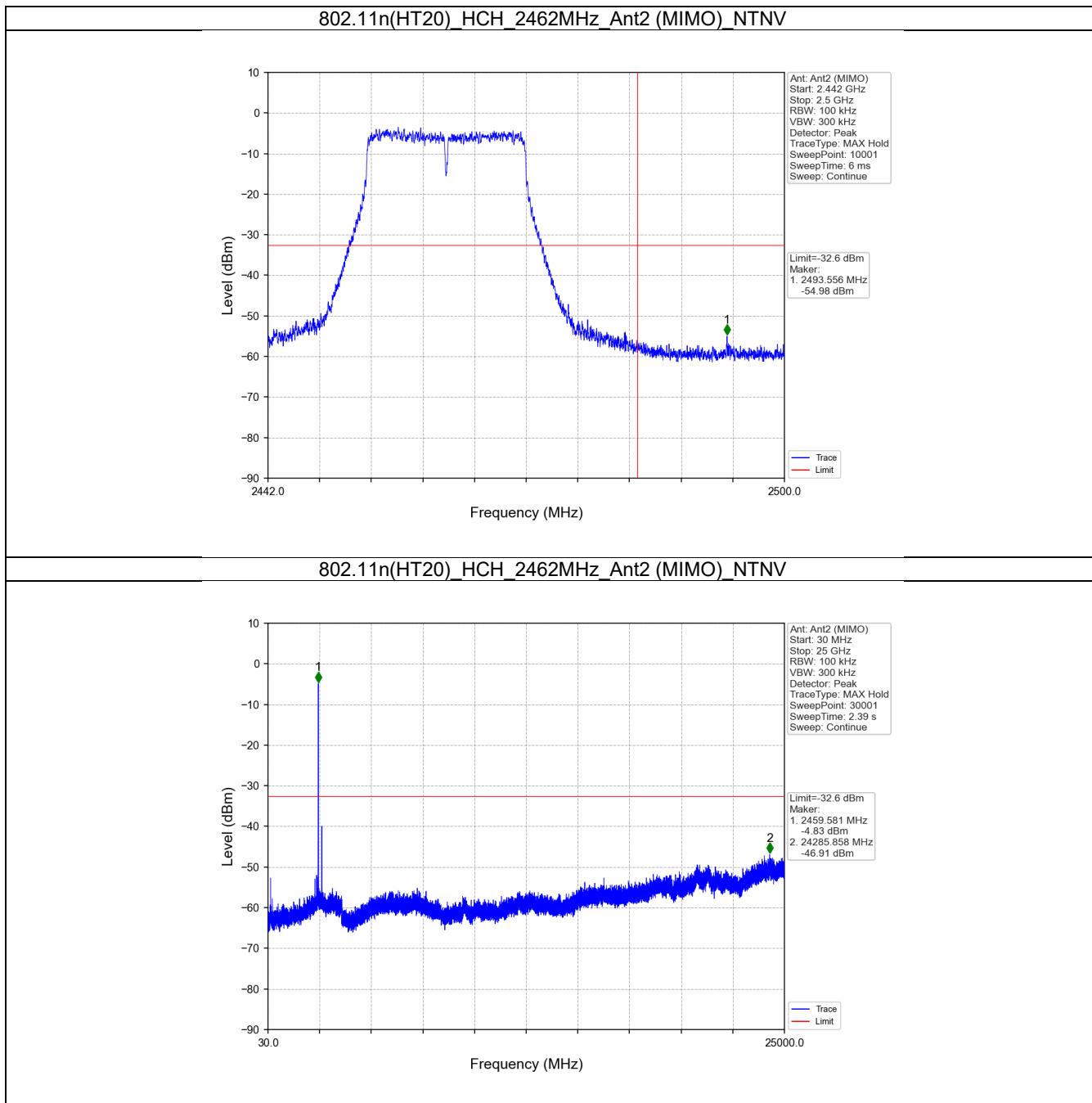
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