

## Appendix A for SHCR22010016901

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.413	8.510	98.86	0.05	0.04
		2437	8.413	8.510	98.86	0.05	0.04
		2462	8.413	8.510	98.86	0.05	0.00
802.11g	SISO	2412	1.396	1.496	93.32	0.30	0.03
		2437	1.394	1.495	93.24	0.30	0.03
		2462	1.394	1.495	93.24	0.30	0.00
802.11n (HT20)	MIMO	2412	1.307	1.408	92.83	0.32	0.03
		2437	1.307	1.408	92.83	0.32	0.03
		2462	1.307	1.407	92.89	0.32	0.03

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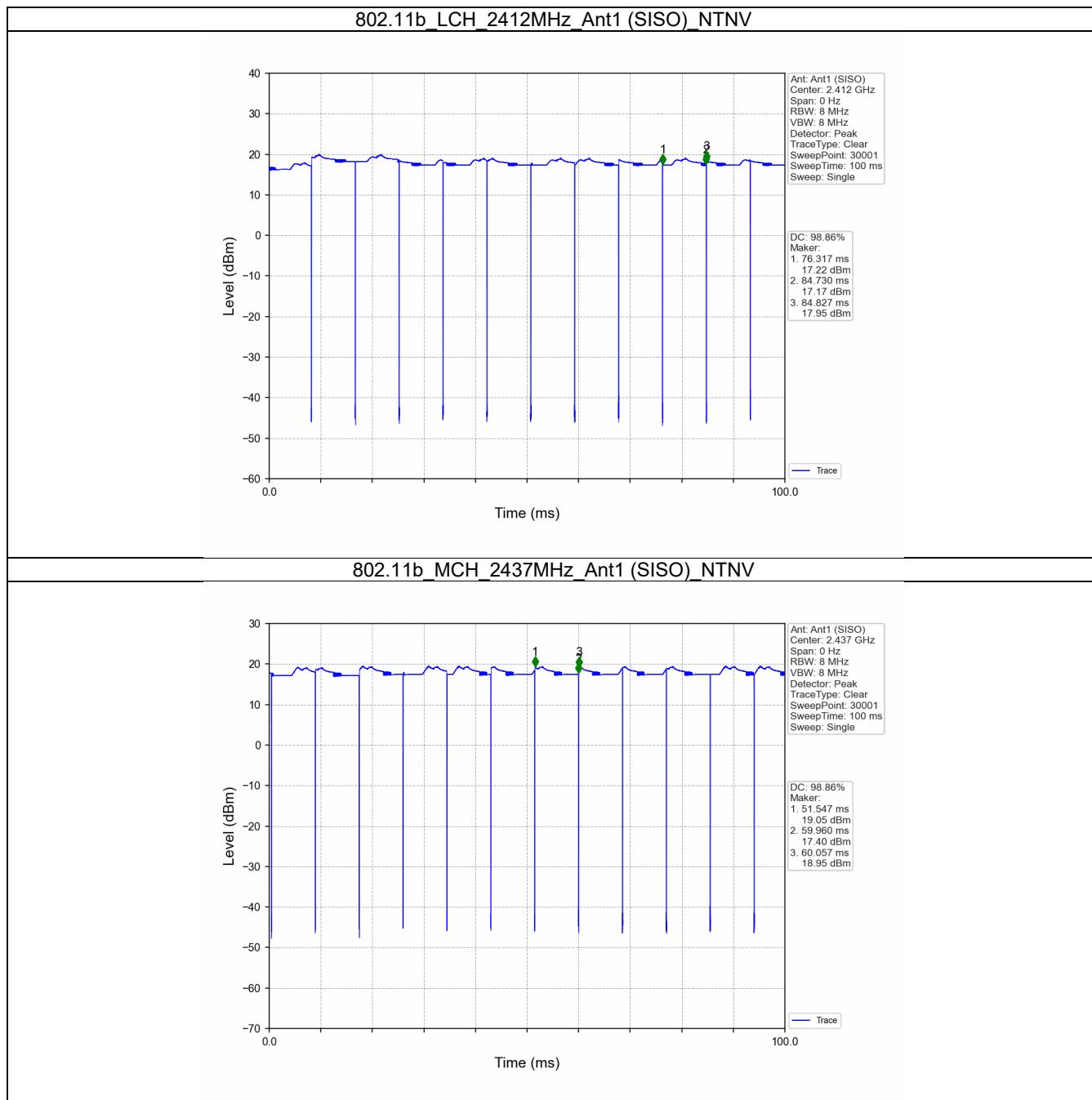
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## 1.1.2 Test Graph



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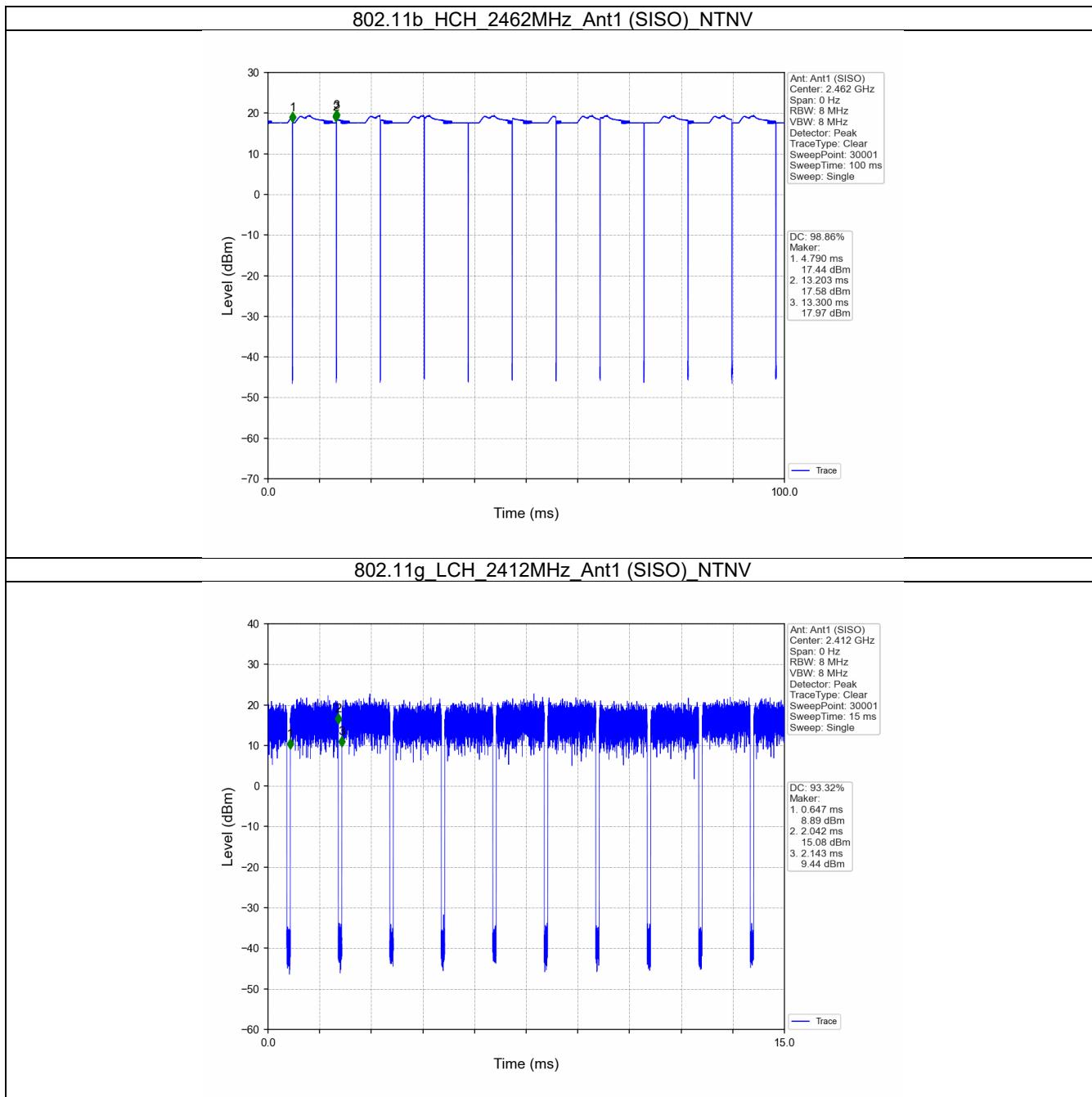


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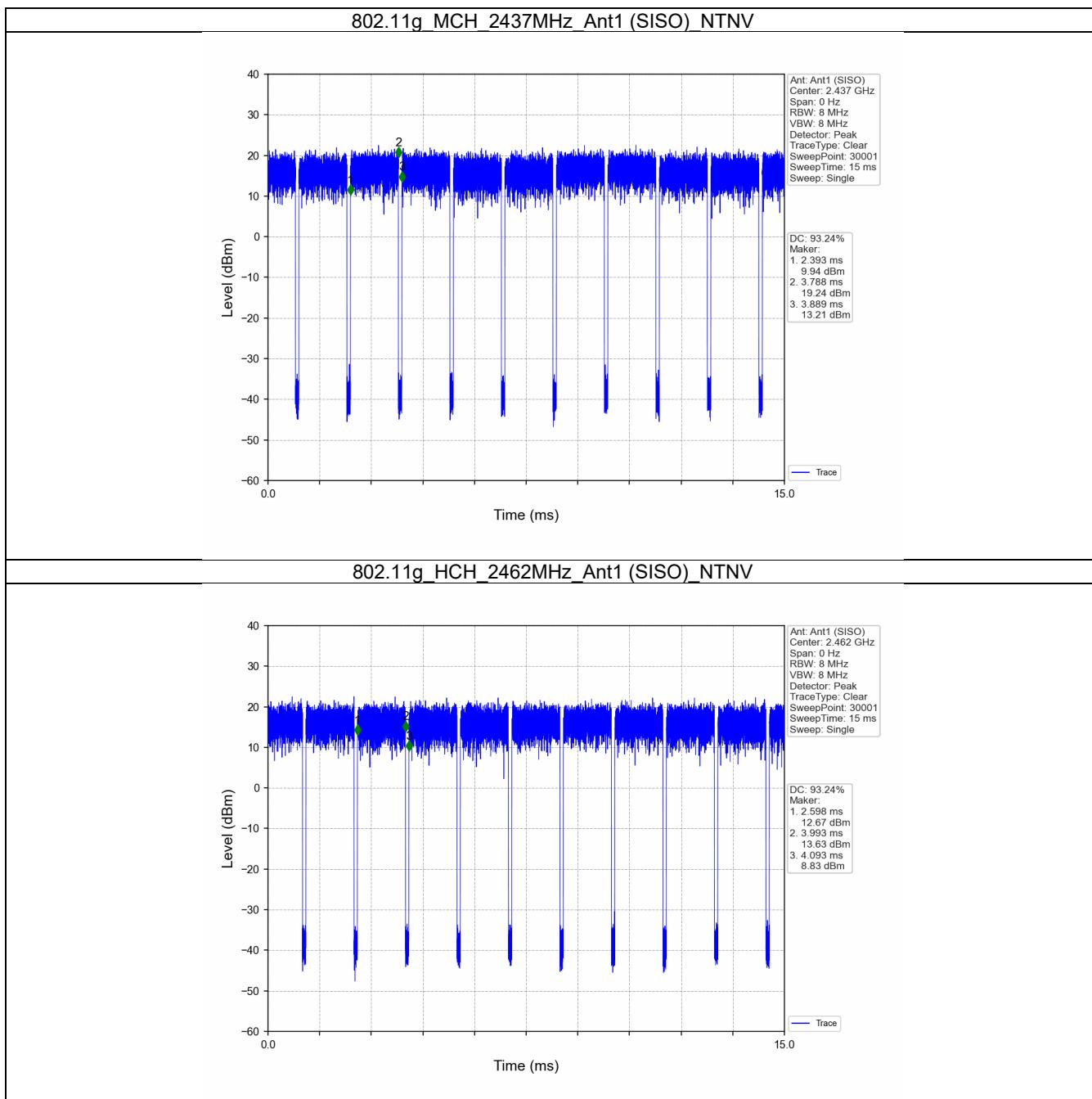
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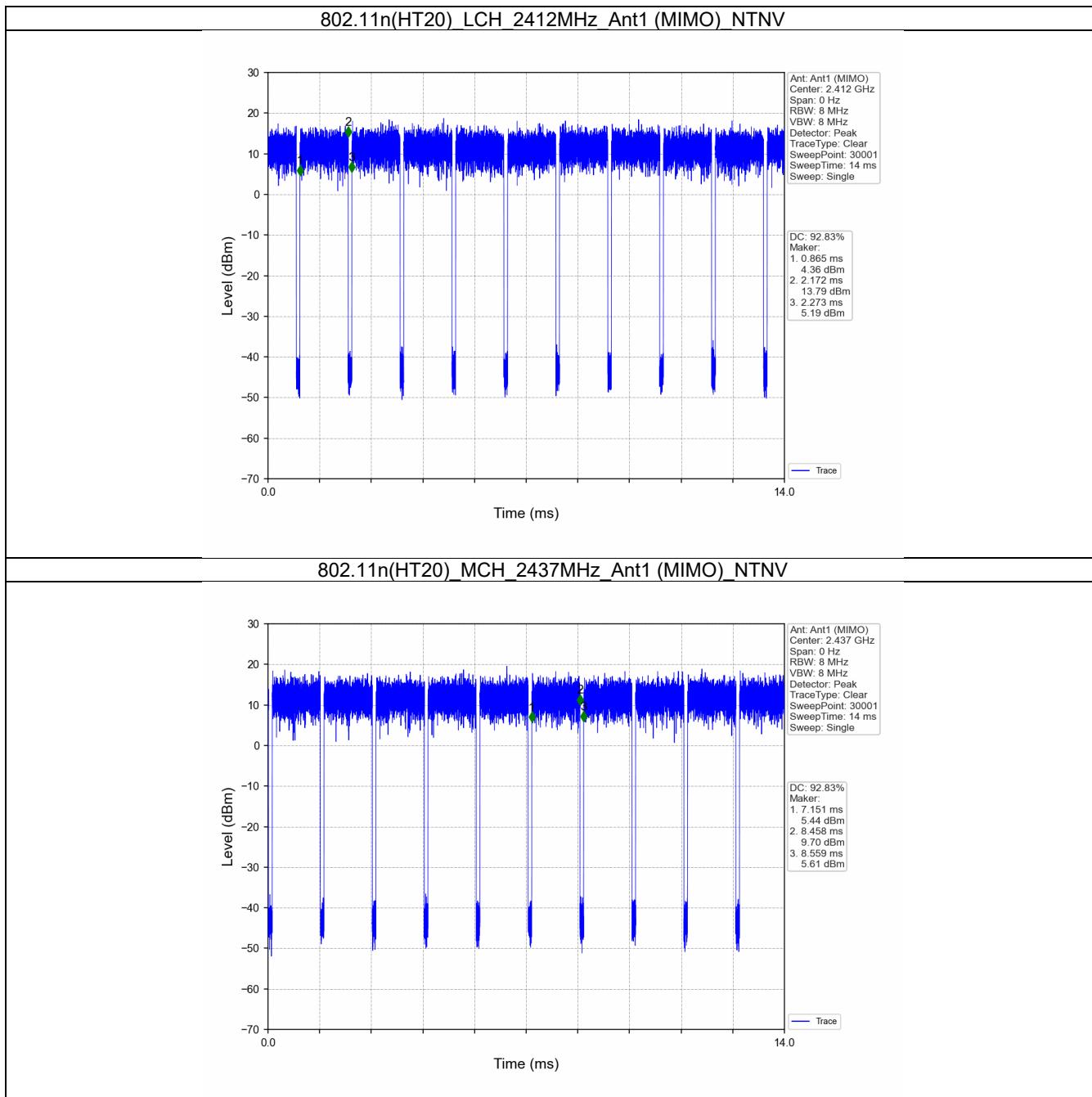
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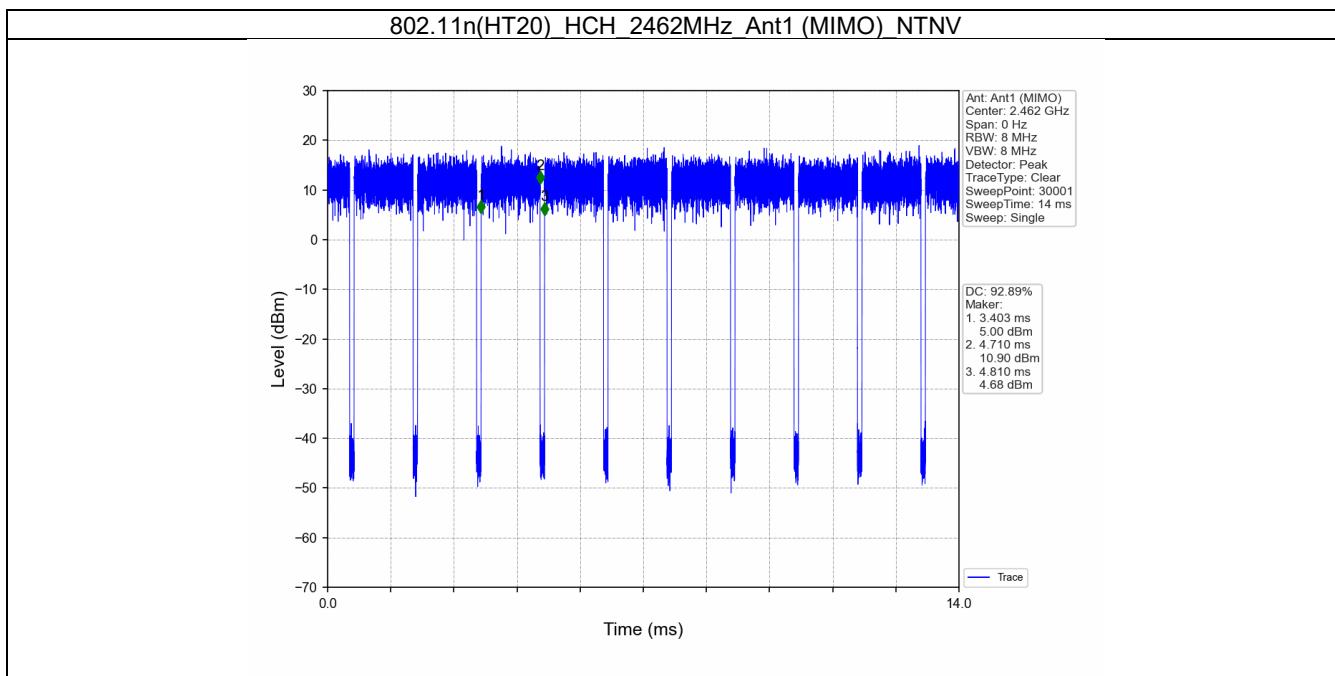
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## 2. Bandwidth

### 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	10.950		Pass
			2	11.327		Pass
		2437	1	11.302		Pass
			2	11.370		Pass
		2462	1	10.989		Pass
			2	11.426		Pass
802.11g	SISO	2412	1	18.130		Pass
			2	18.136		Pass
		2437	1	18.153		Pass
			2	18.123		Pass
		2462	1	18.083		Pass
			2	18.121		Pass
802.11n (HT20)	MIMO	2412	1	18.896		Pass
			2	18.293		Pass
		2437	1	18.880		Pass
			2	18.282		Pass
		2462	1	18.796		Pass
			2	18.294		Pass

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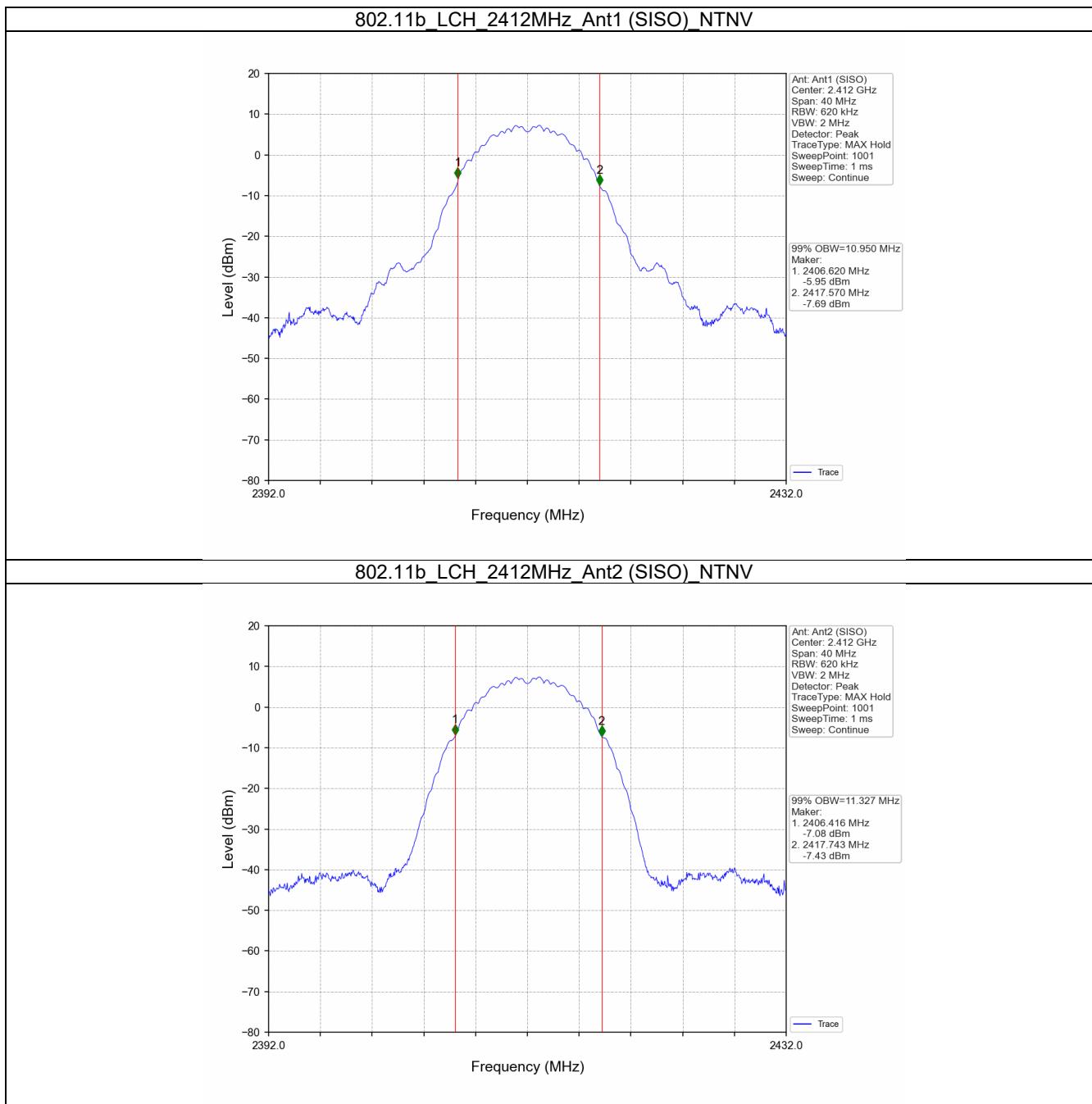
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## 2.1.2 Test Graph



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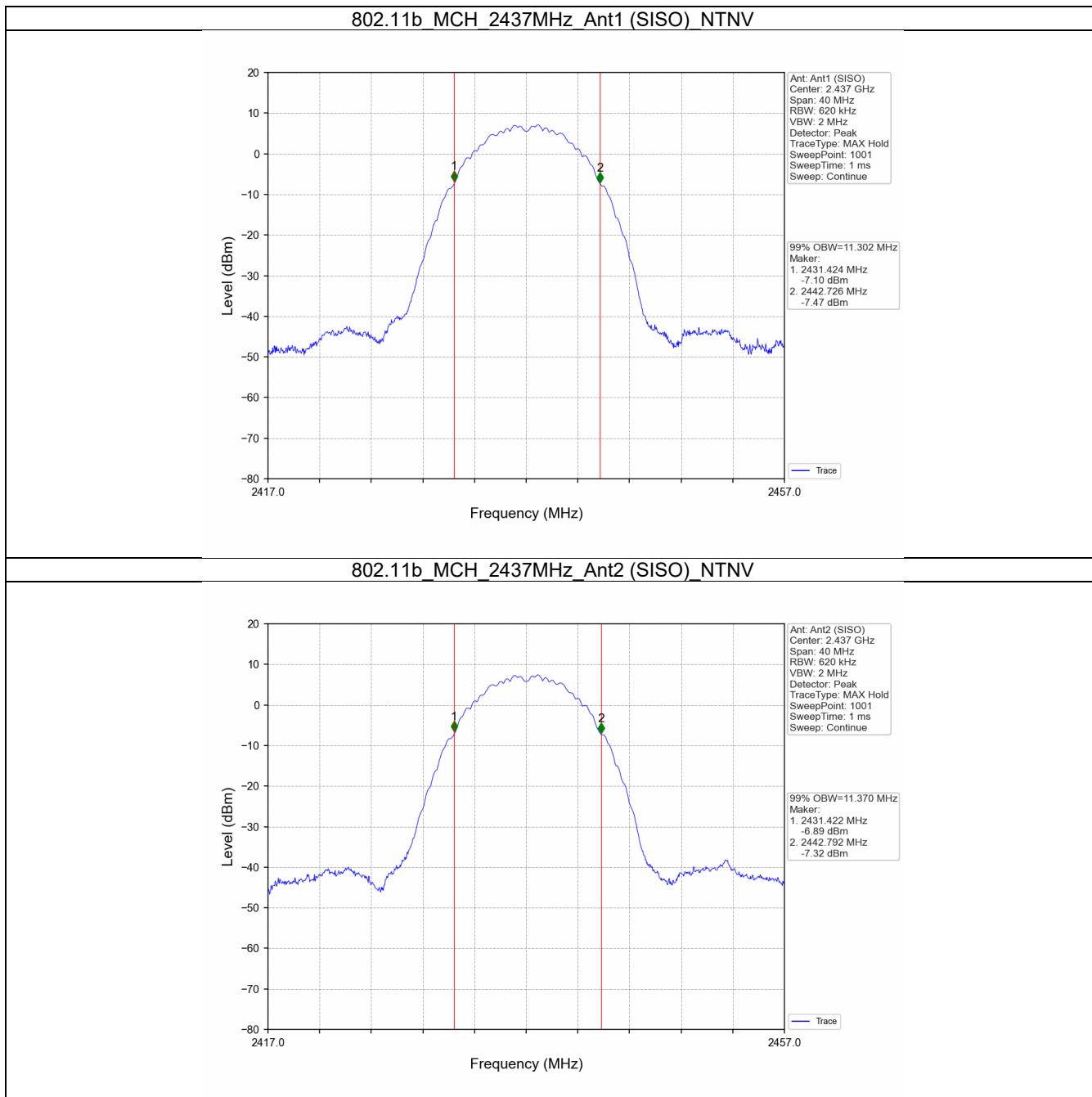
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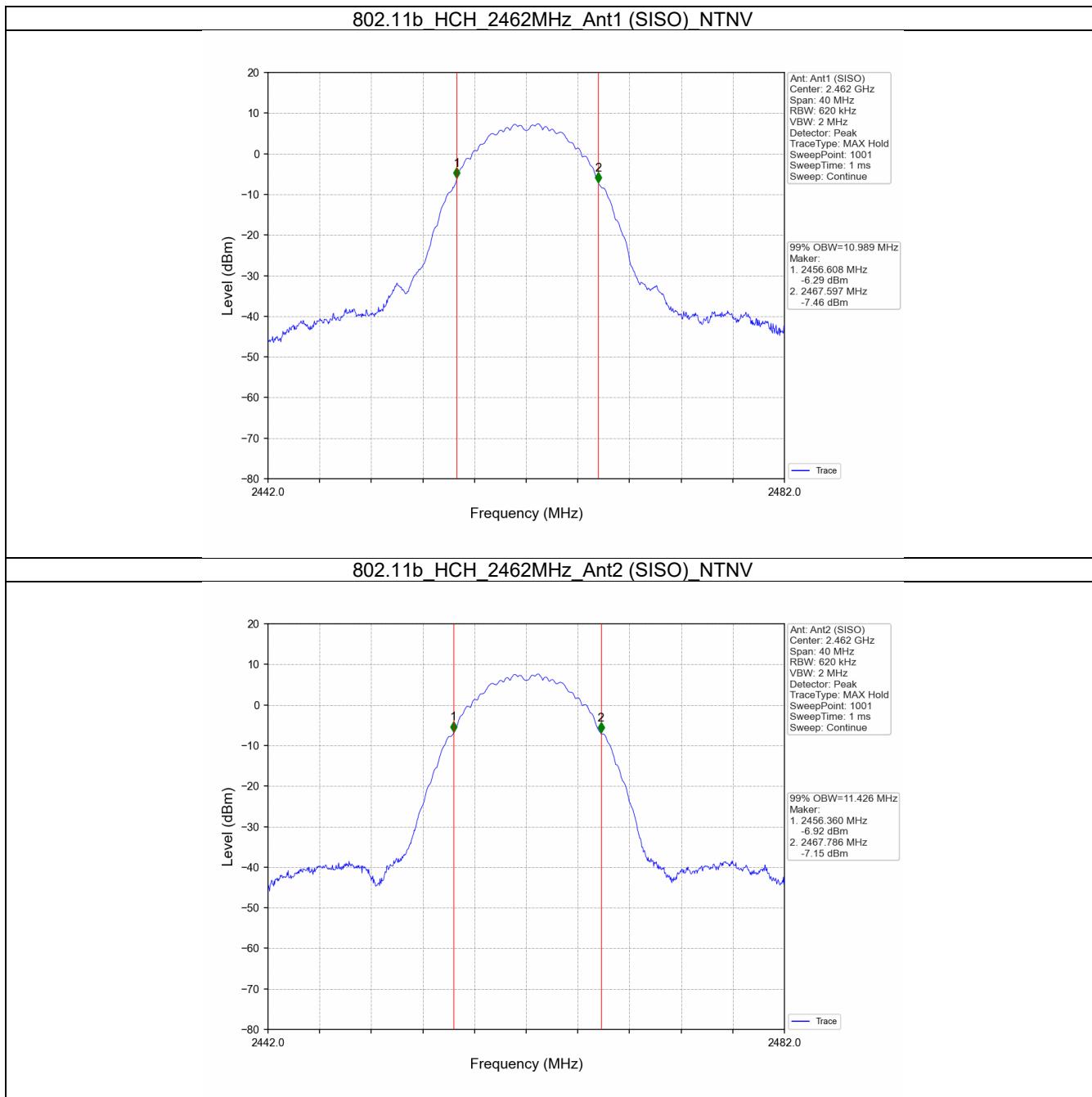


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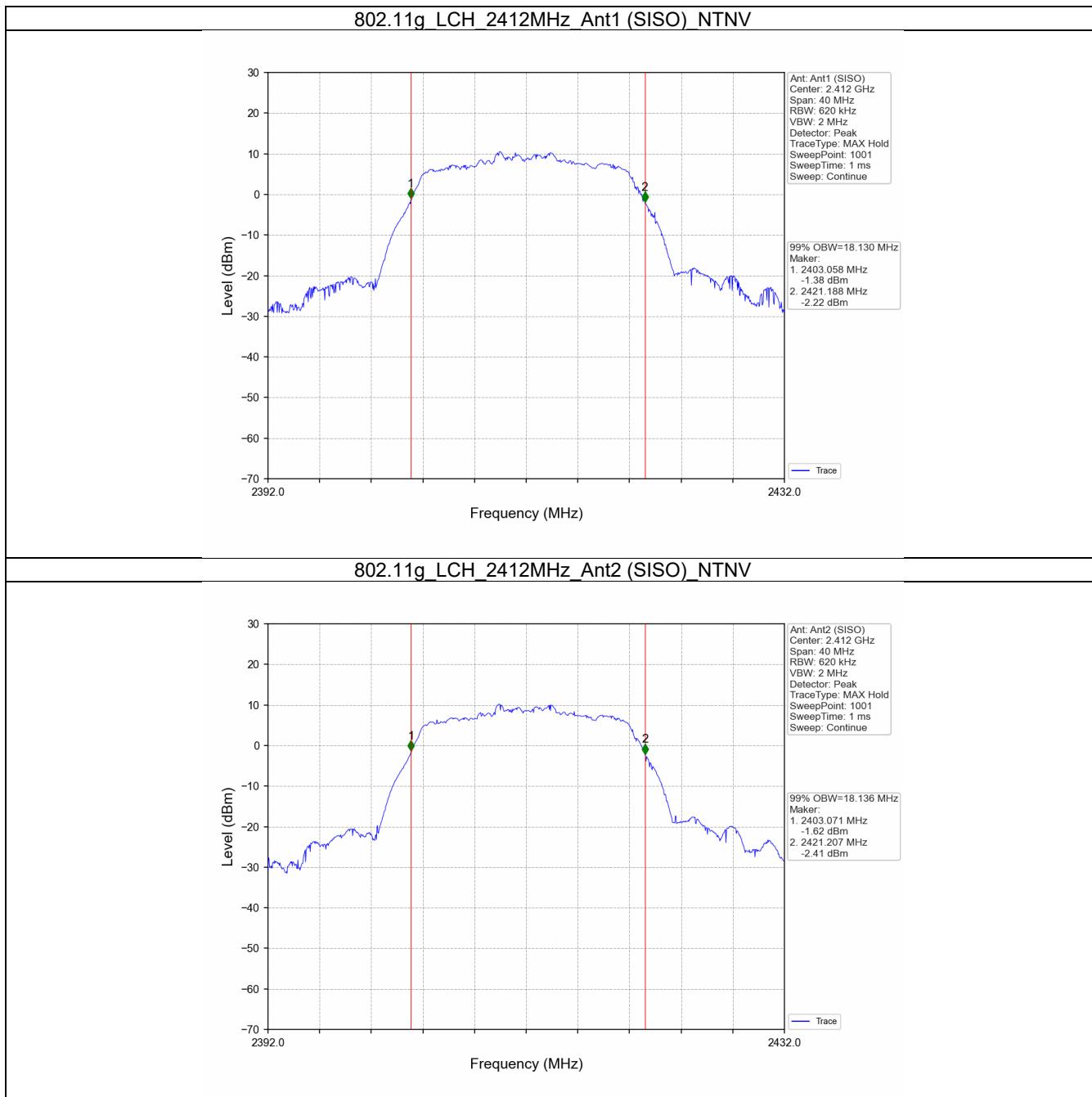
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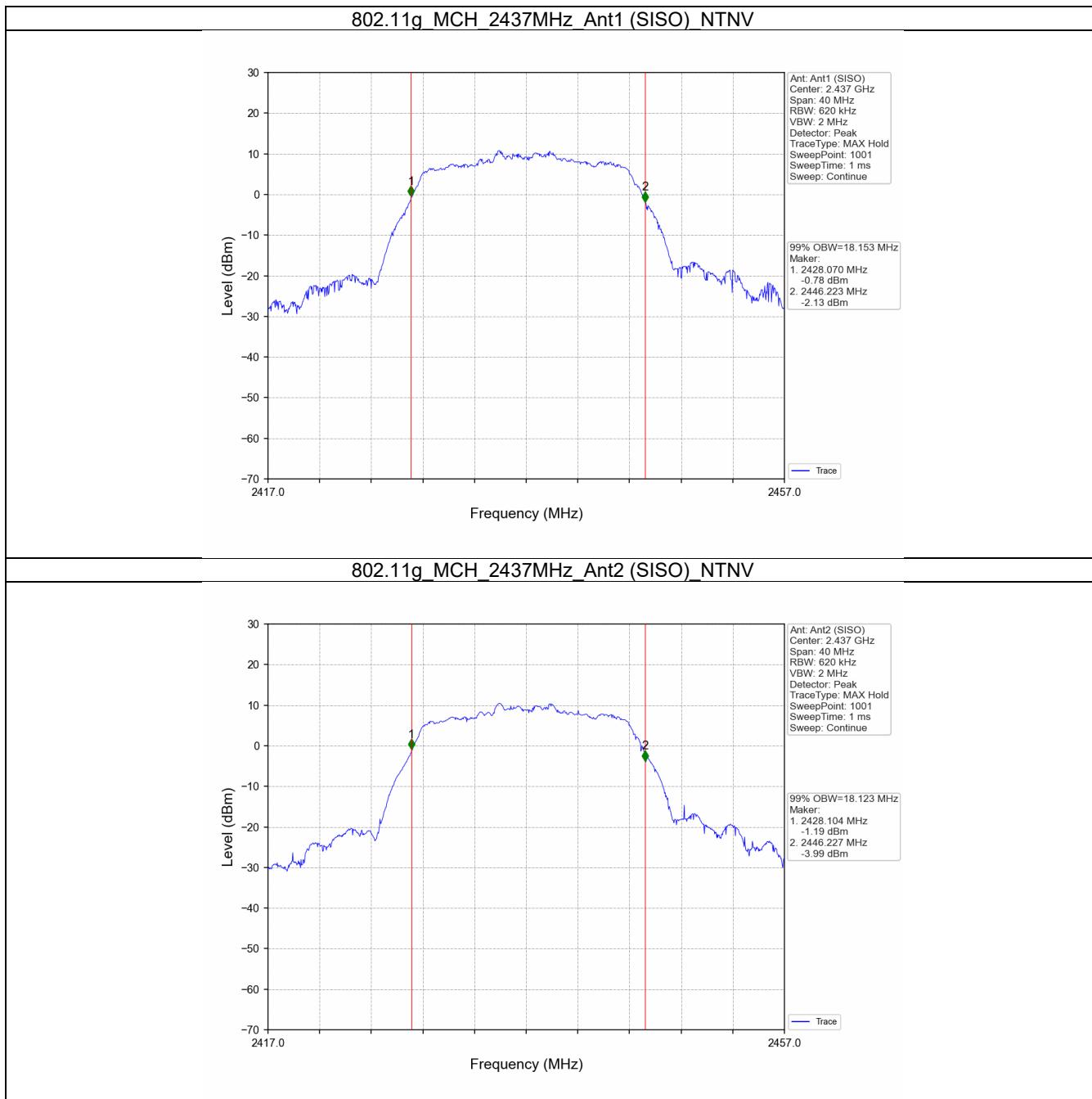
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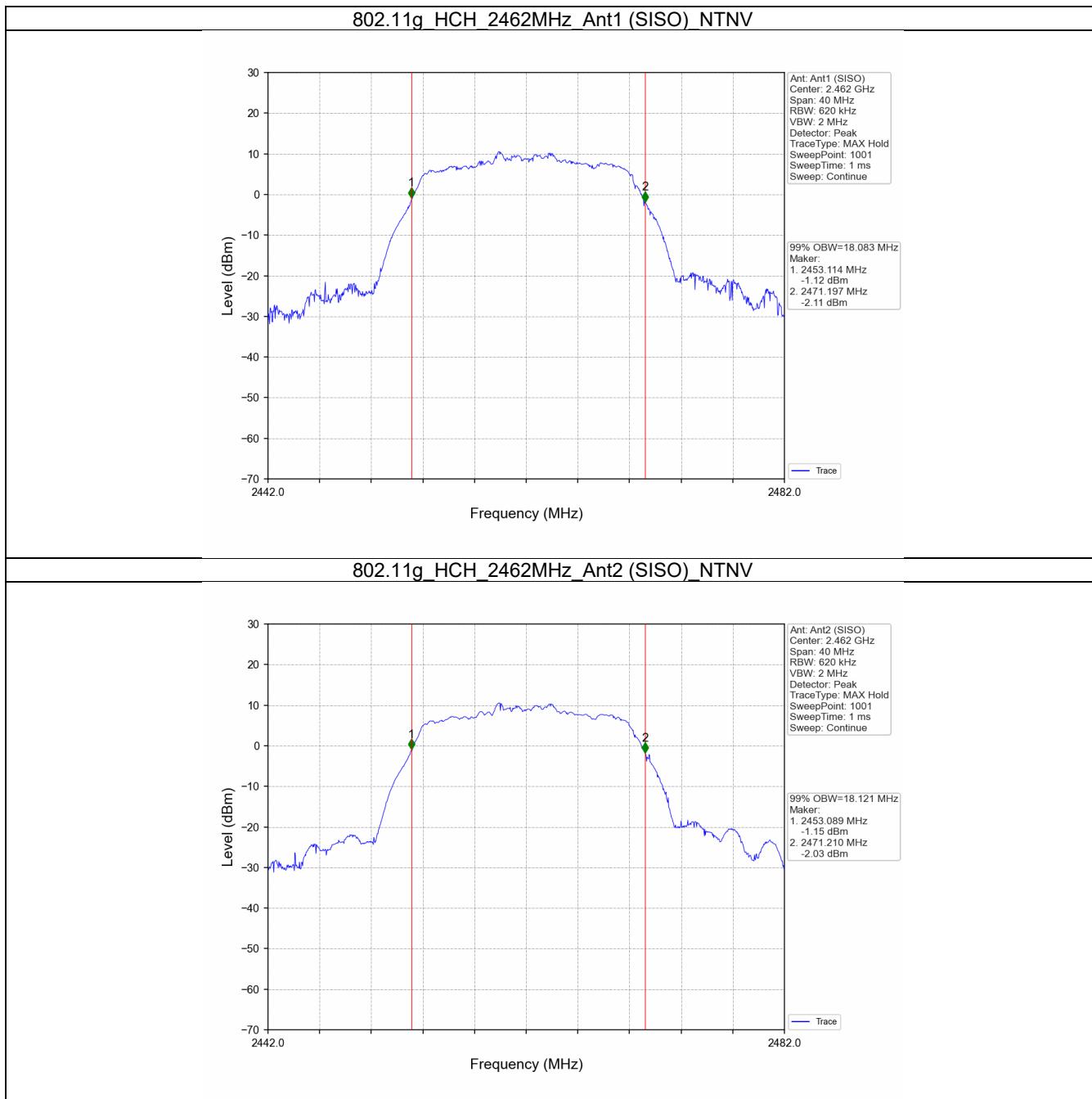
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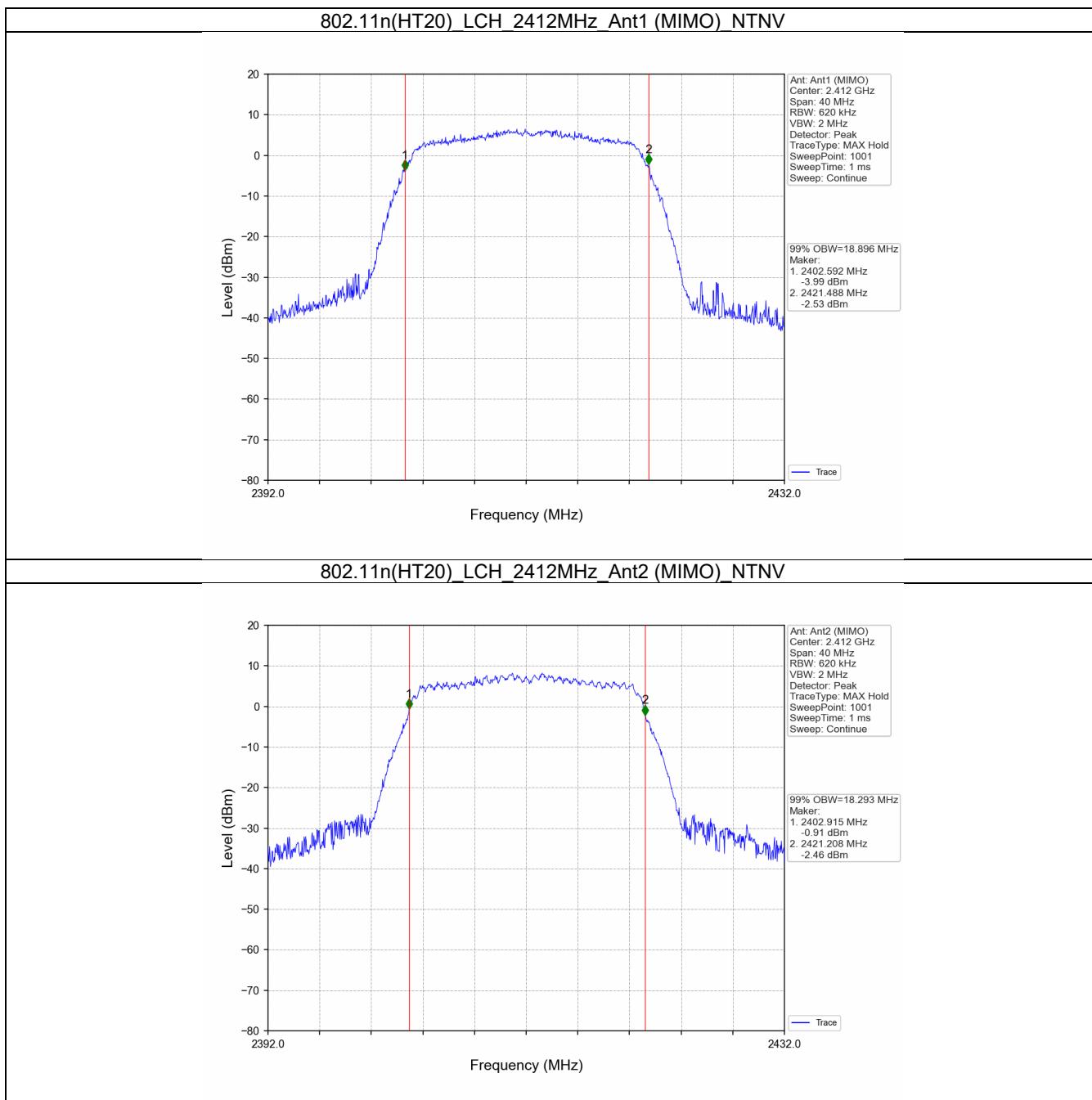
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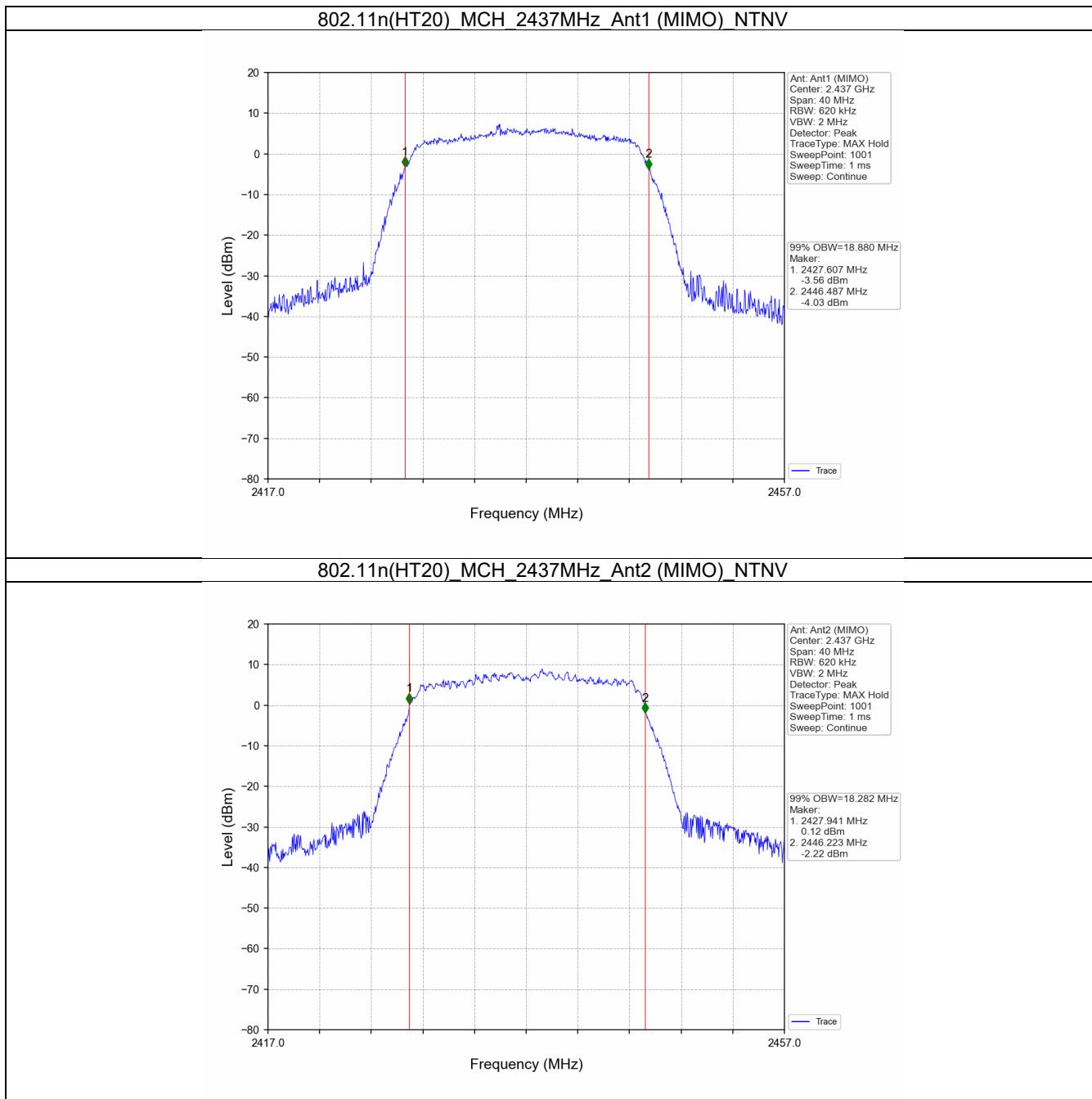
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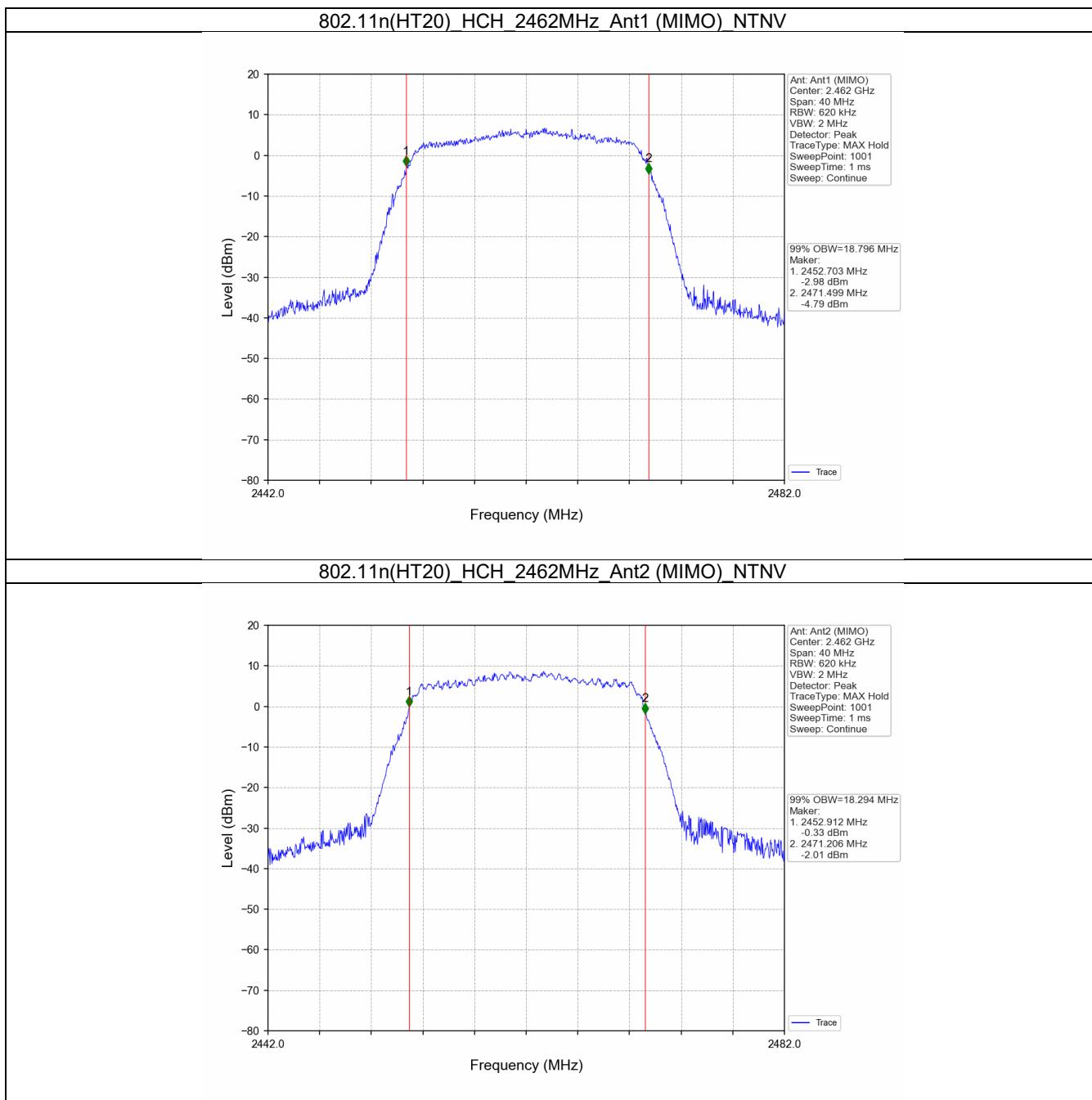
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## 2.2 6dB BW

## 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	7.100	>=0.5	Pass
			2	7.581	>=0.5	Pass
		2437	1	7.581	>=0.5	Pass
			2	7.581	>=0.5	Pass
		2462	1	7.567	>=0.5	Pass
			2	7.573	>=0.5	Pass
	802.11g	2412	1	16.381	>=0.5	Pass
			2	16.376	>=0.5	Pass
		2437	1	16.375	>=0.5	Pass
			2	16.376	>=0.5	Pass
		2462	1	16.365	>=0.5	Pass
			2	16.376	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.592	>=0.5	Pass
			2	17.624	>=0.5	Pass
		2437	1	17.611	>=0.5	Pass
			2	17.614	>=0.5	Pass
		2462	1	17.589	>=0.5	Pass
			2	17.615	>=0.5	Pass

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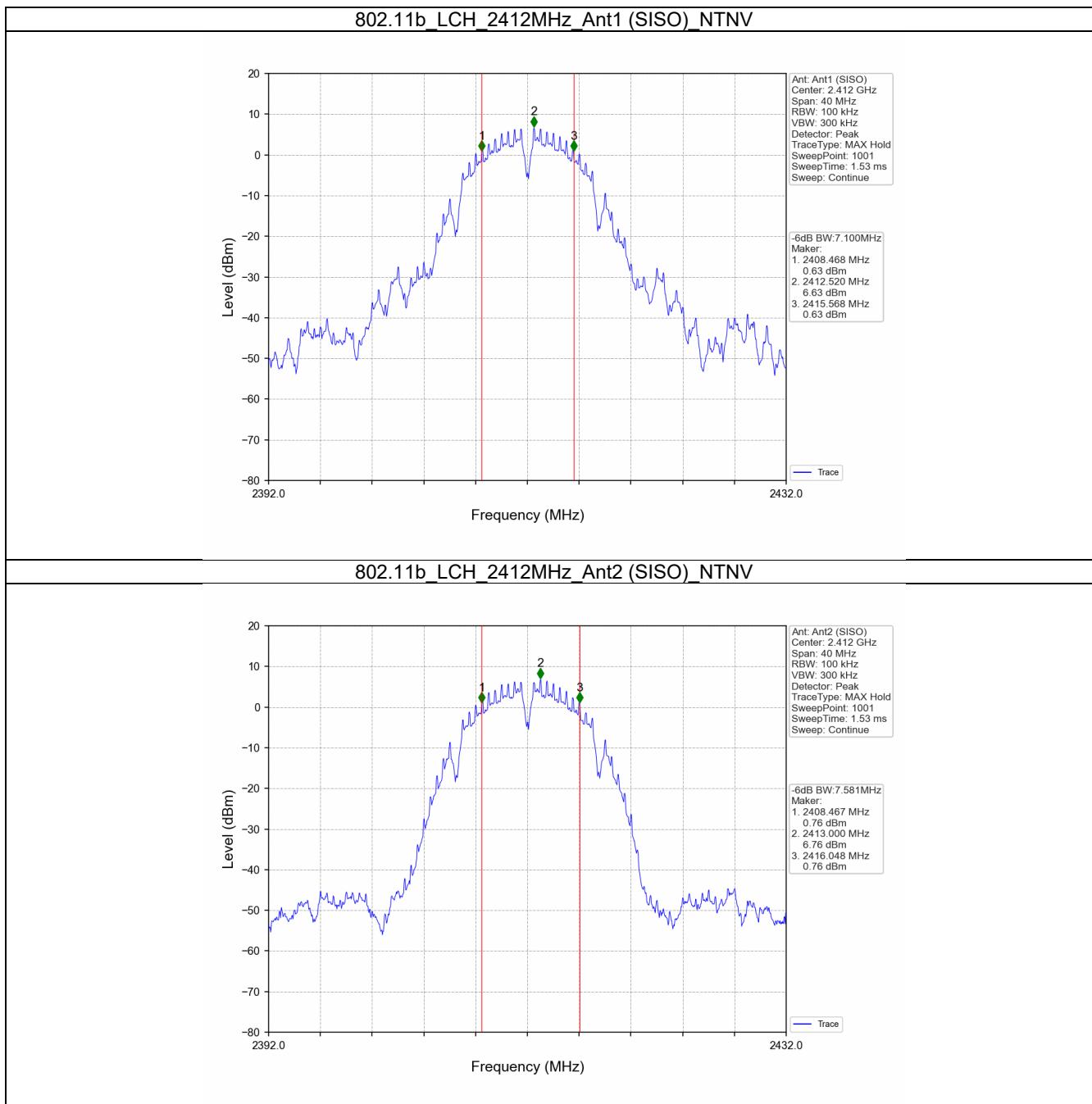
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## 2.2.2 Test Graph



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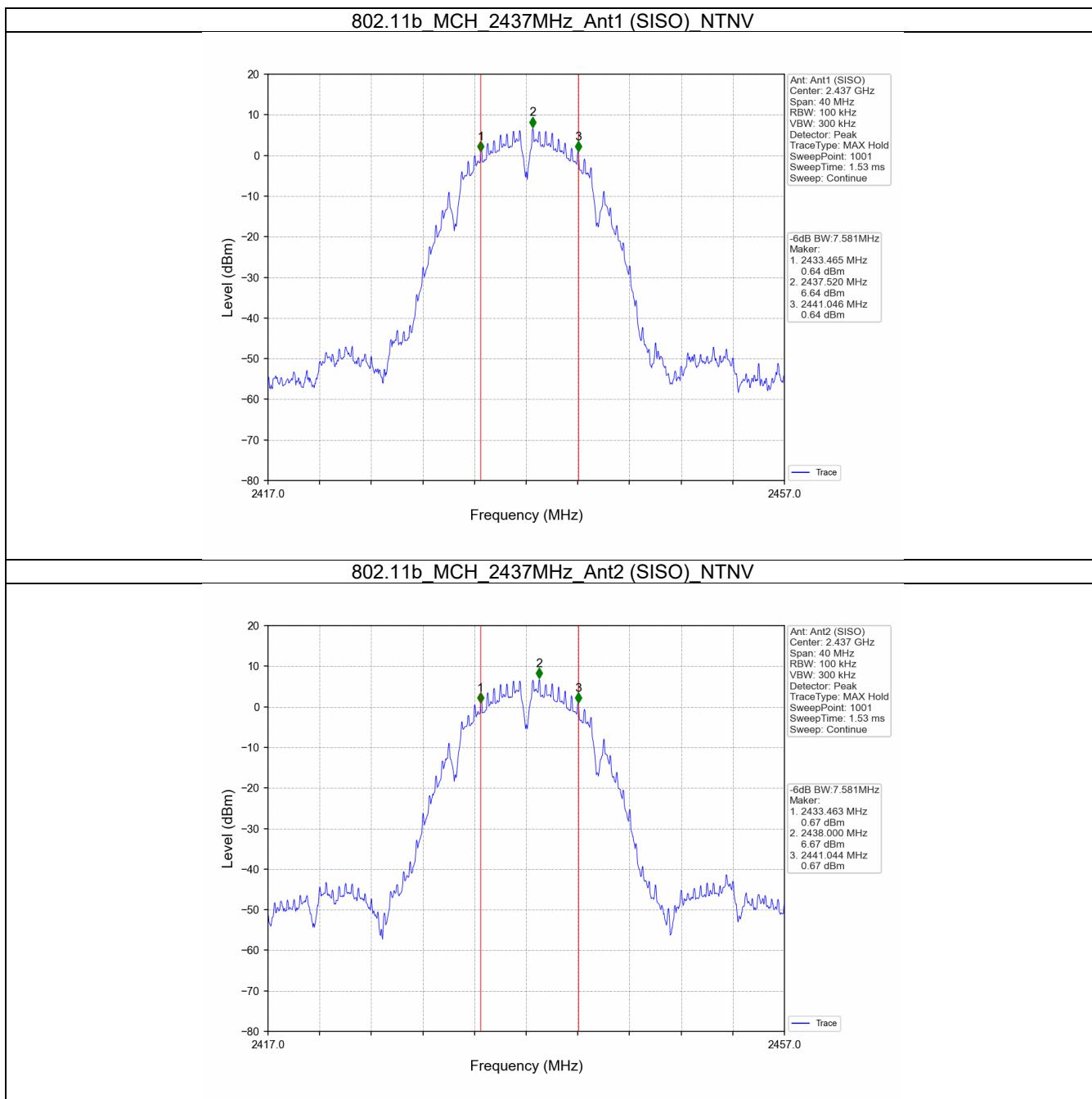
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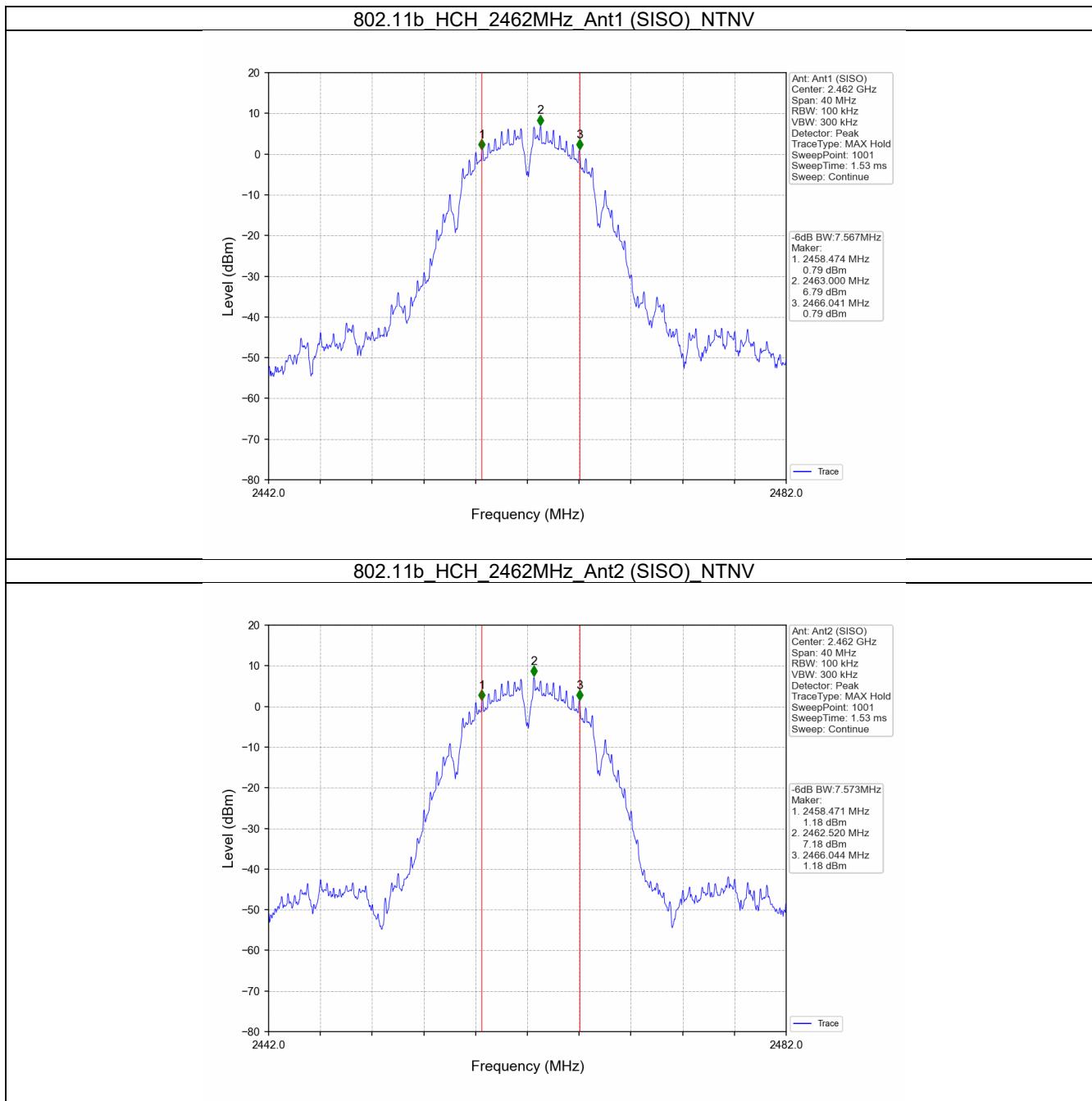


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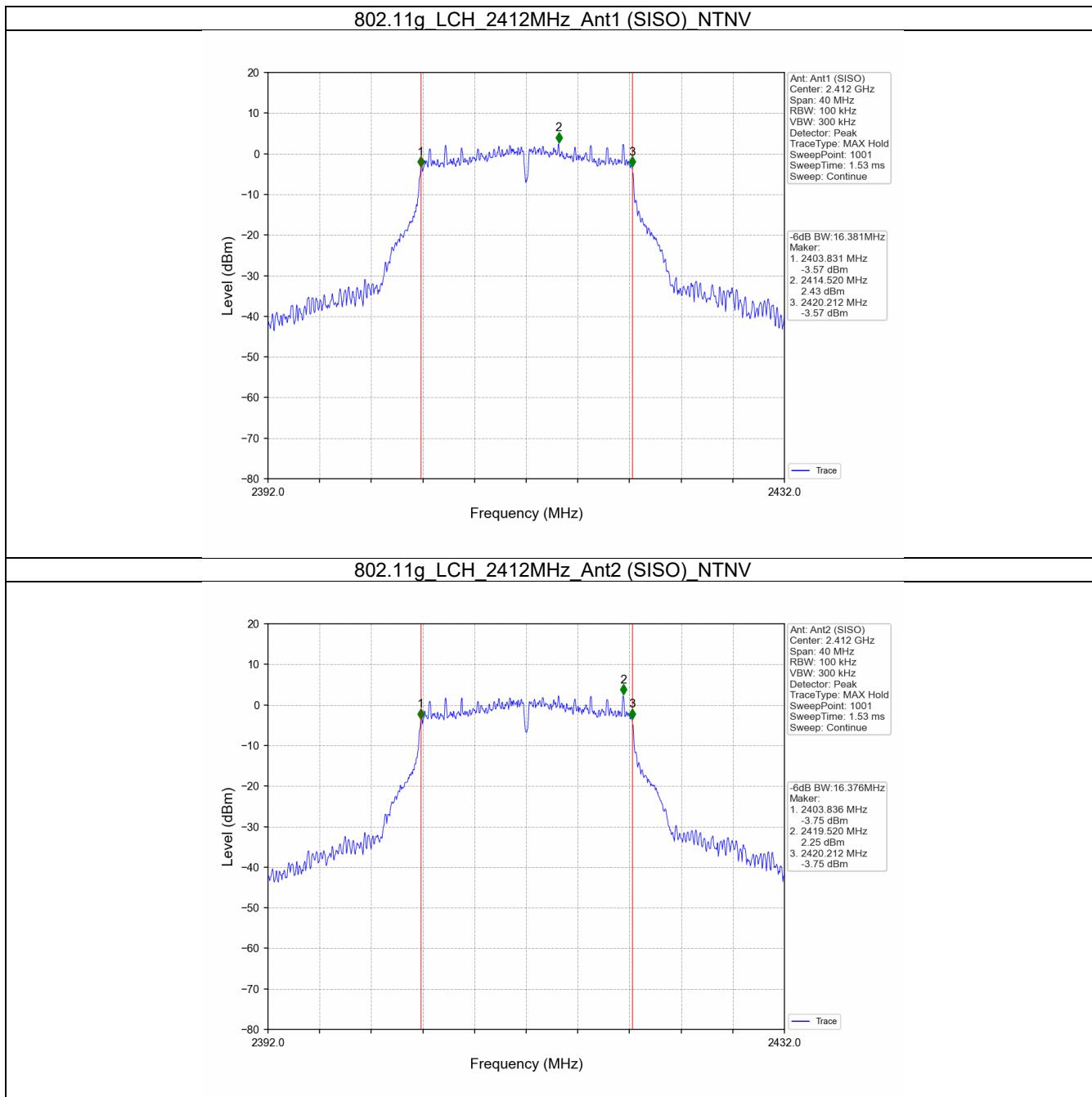


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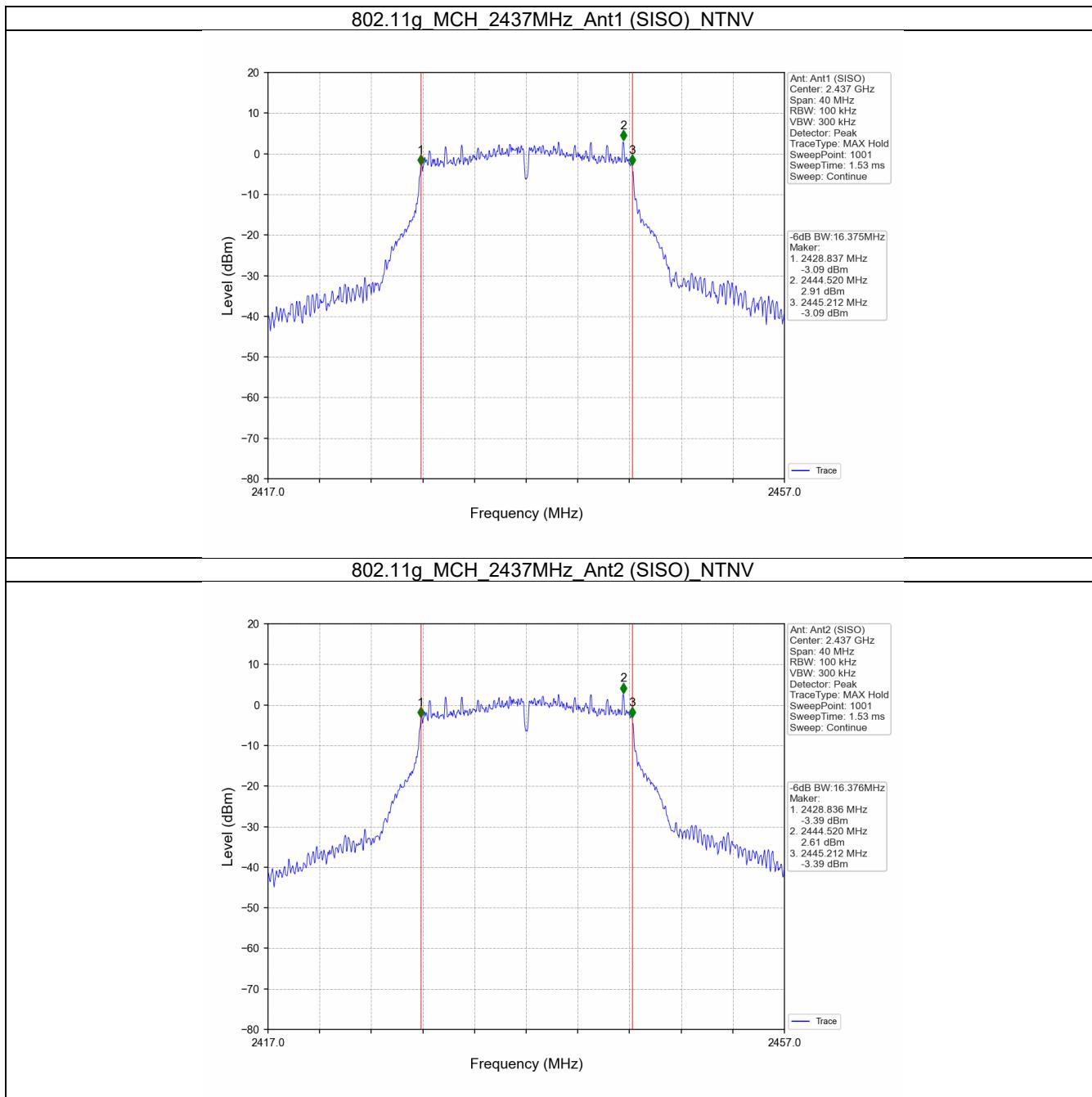
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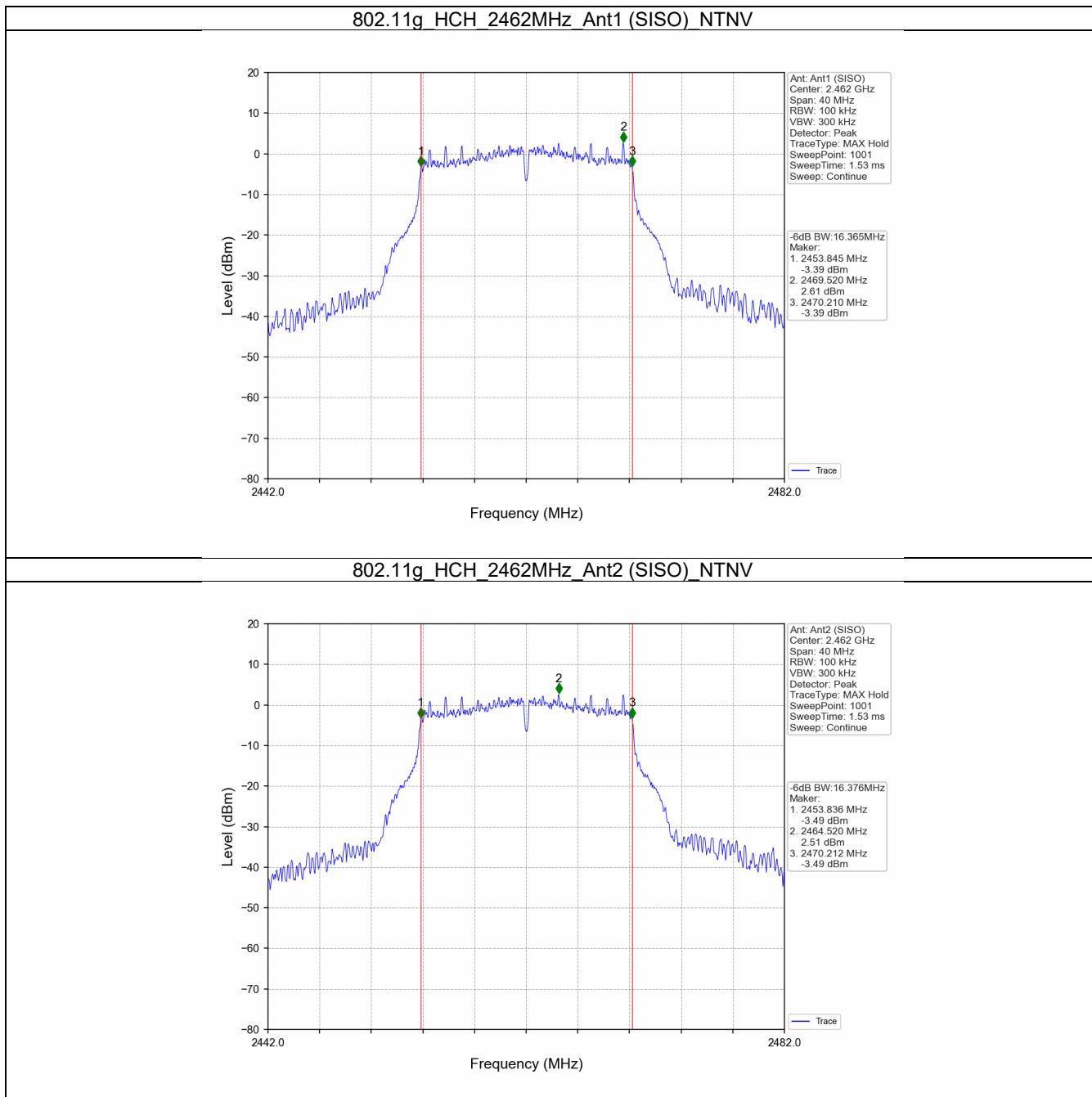
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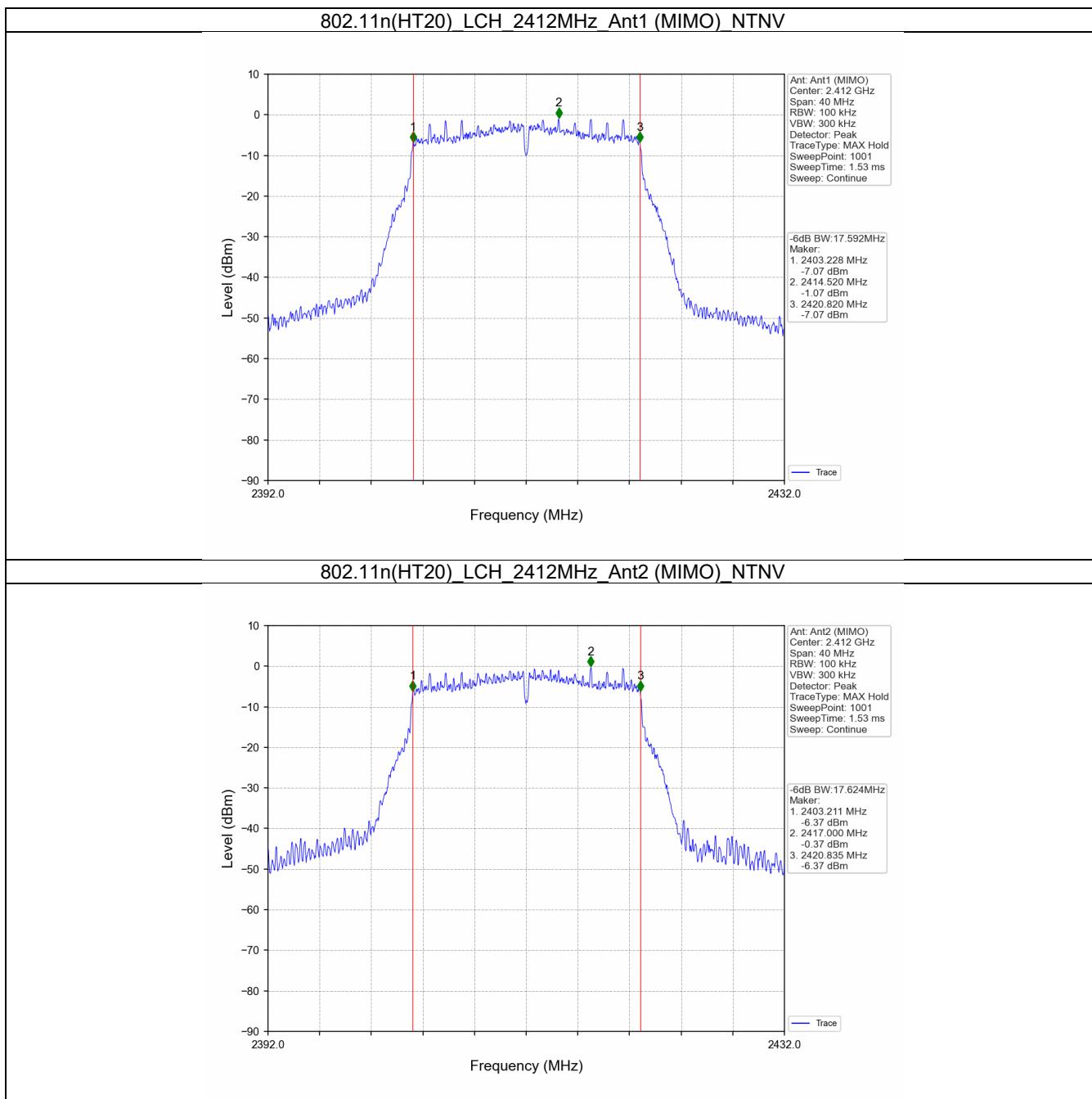
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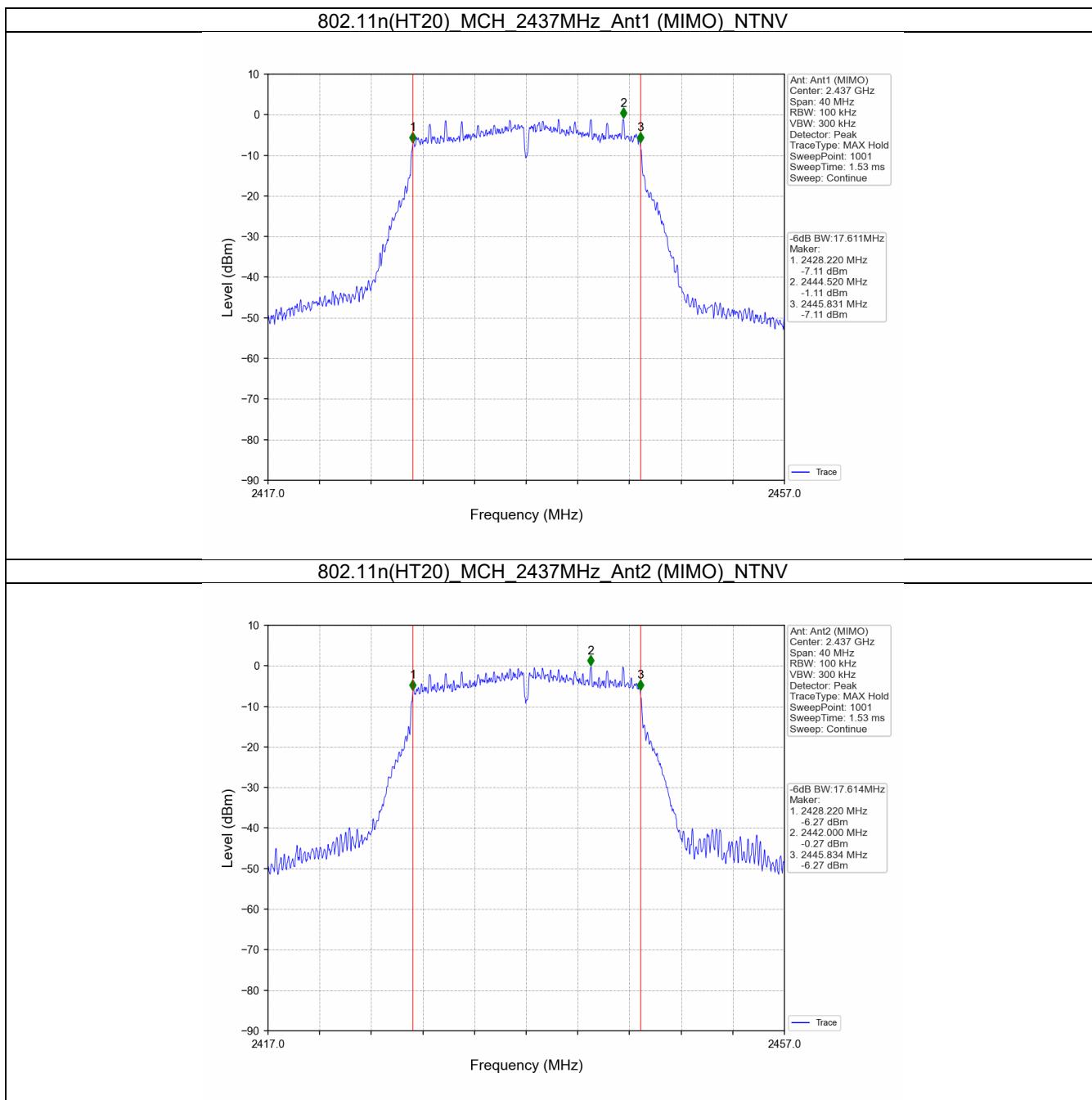
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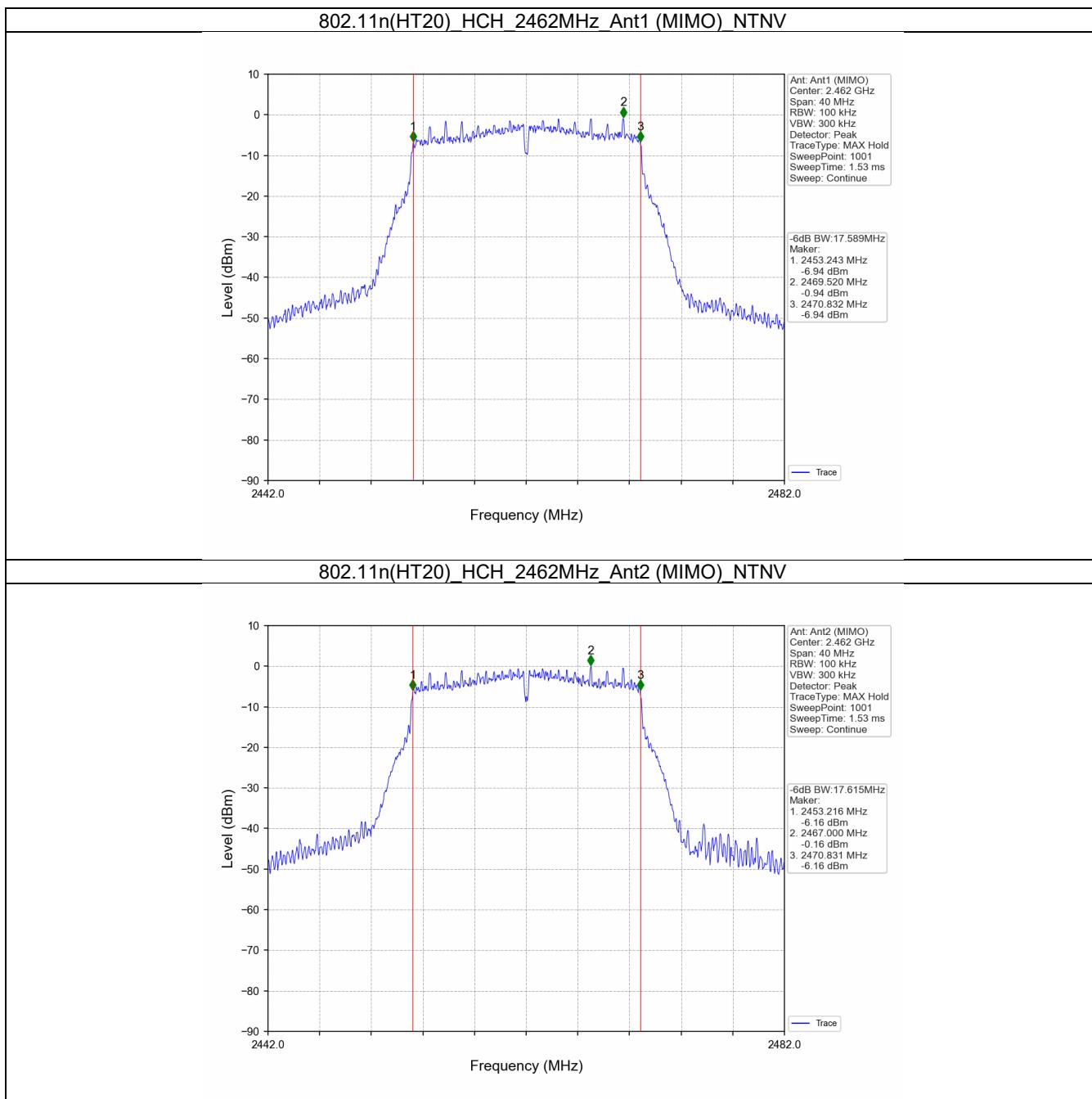


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### 3. Maximum Conducted Output Power

#### 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	13.99	14.29	/	<=30	Pass
		2437	14.06	14.30	/	<=30	Pass
		2462	14.31	14.53	/	<=30	Pass
802.11g	SISO	2412	14.11	14.20	/	<=30	Pass
		2437	14.55	14.50	/	<=30	Pass
		2462	14.41	14.53	/	<=30	Pass
802.11n (HT20)	MIMO	2412	10.77	10.92	13.86	<=30	Pass
		2437	10.77	11.11	13.95	<=30	Pass
		2462	10.84	11.31	14.09	<=30	Pass

Note1: Antenna Gain: Ant1: 2.70dBi; Ant2: 1.00dBi;

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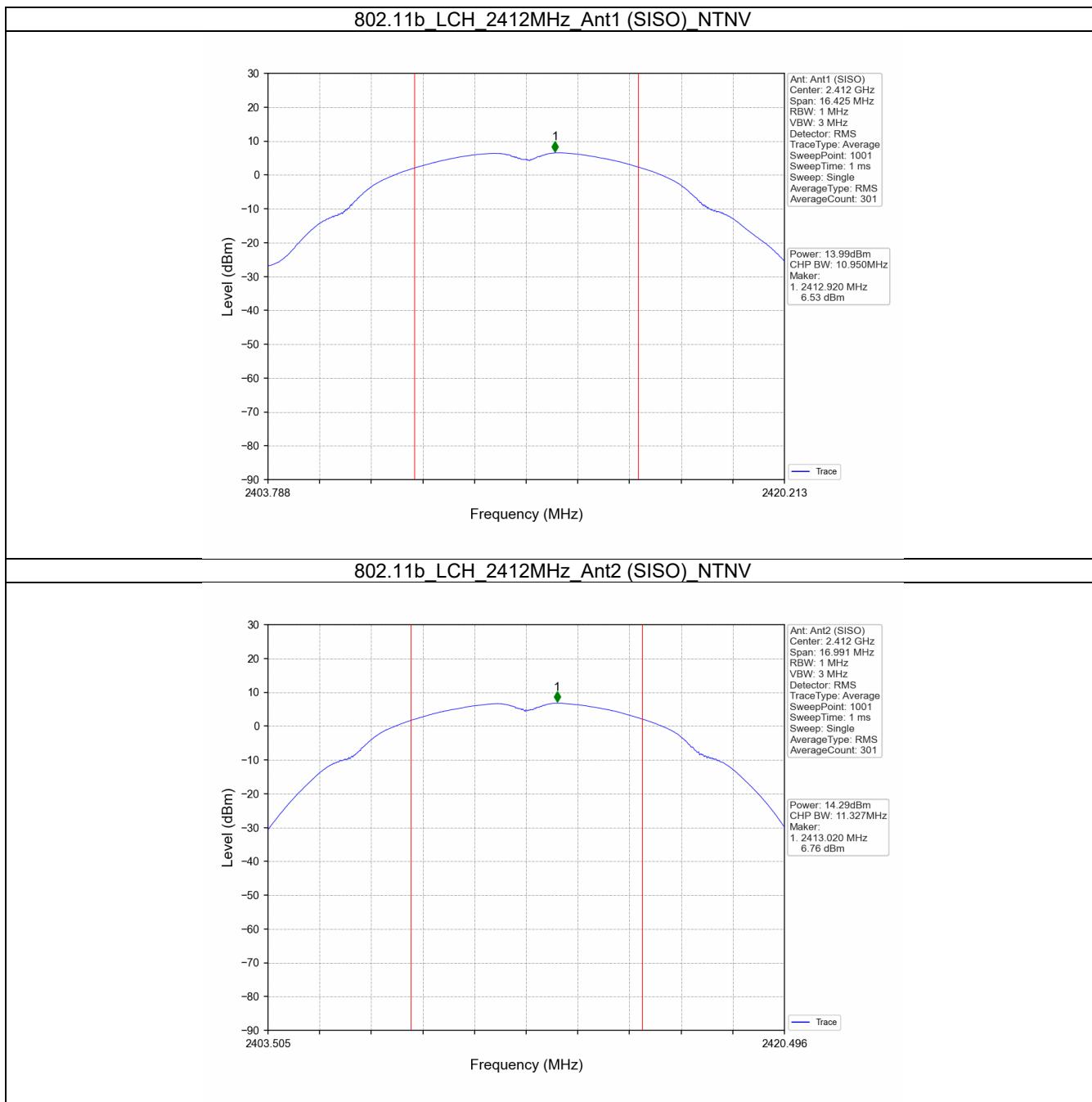
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## 3.1.2 Test Graph



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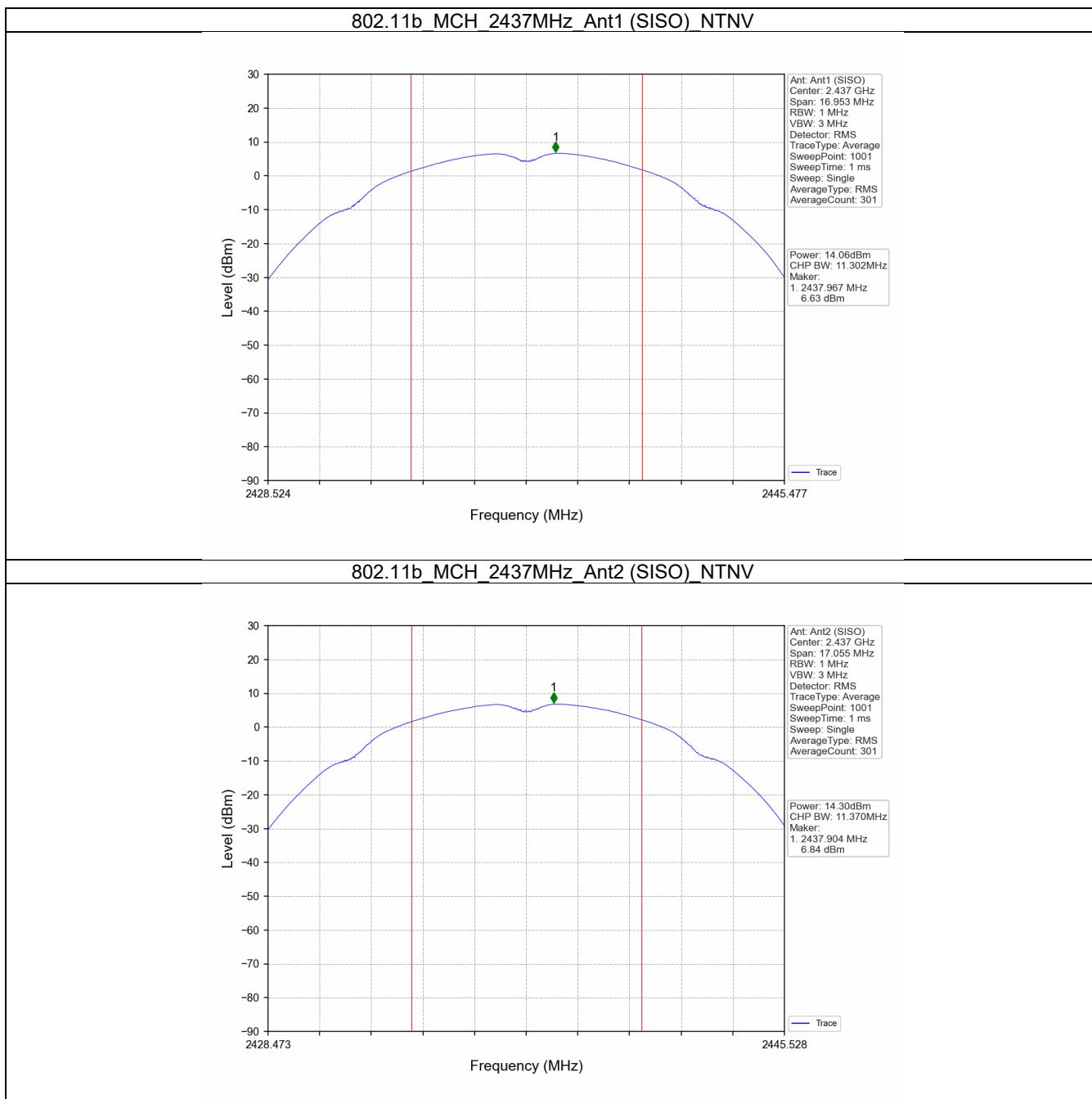


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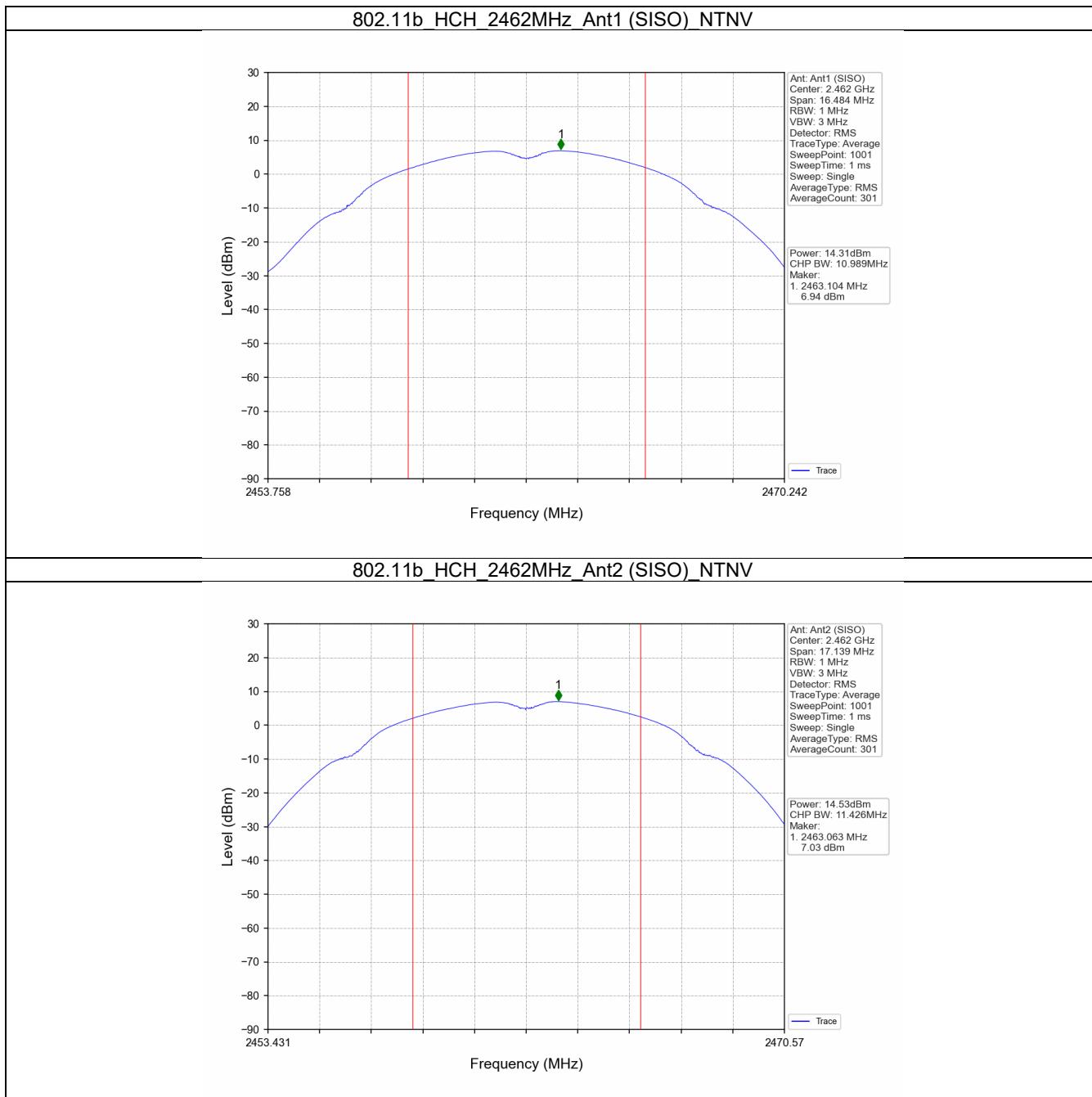
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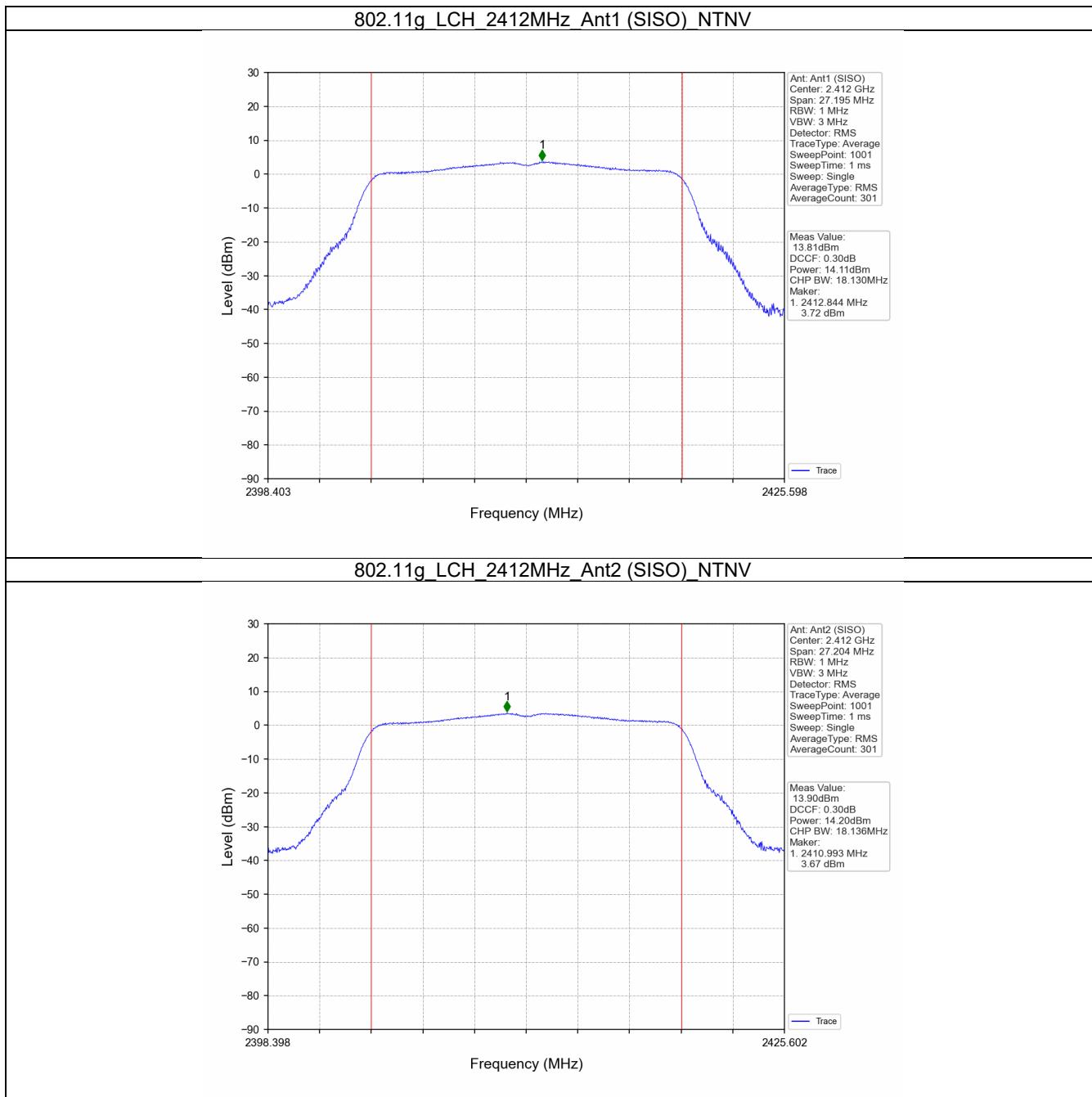


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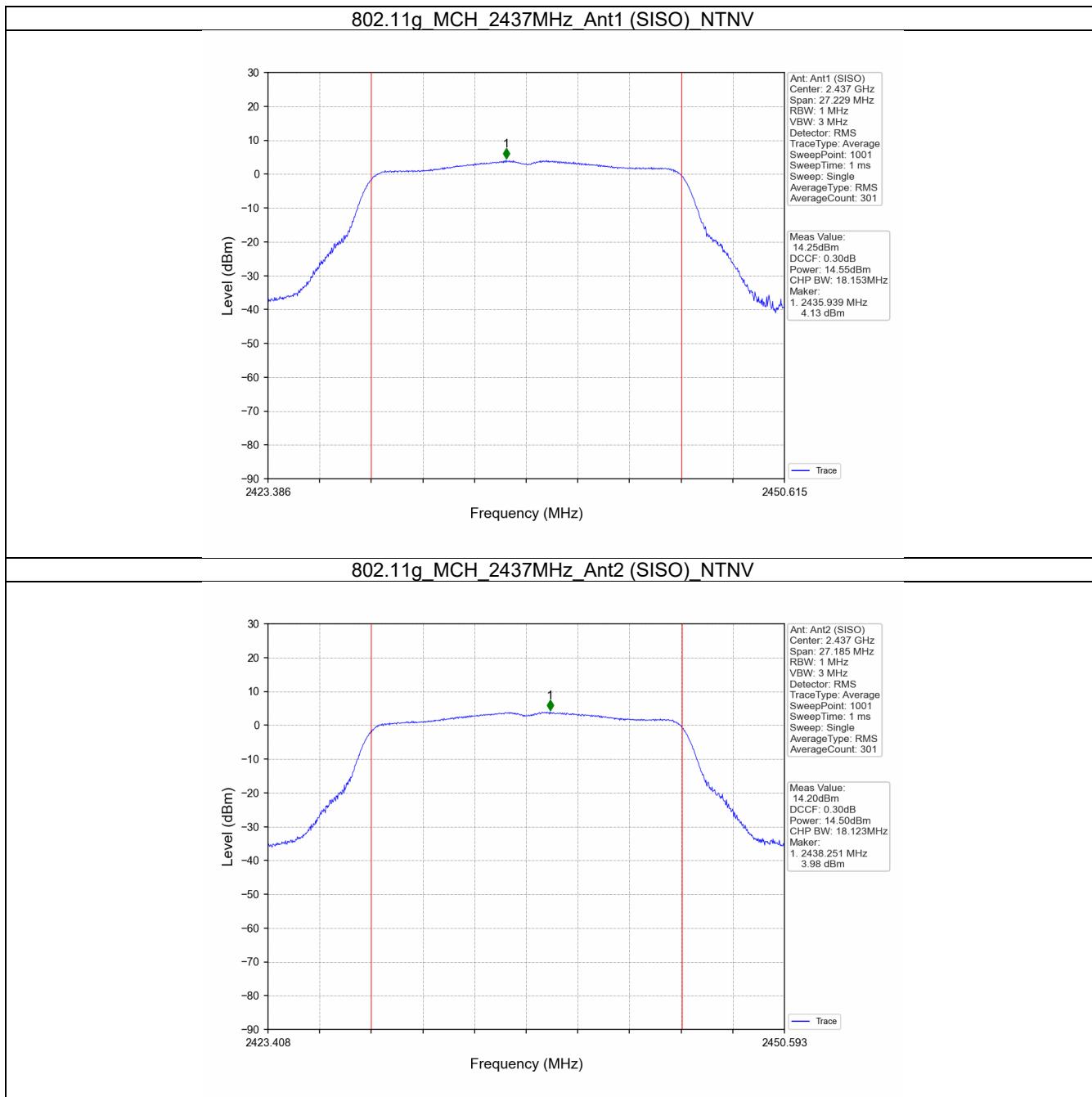
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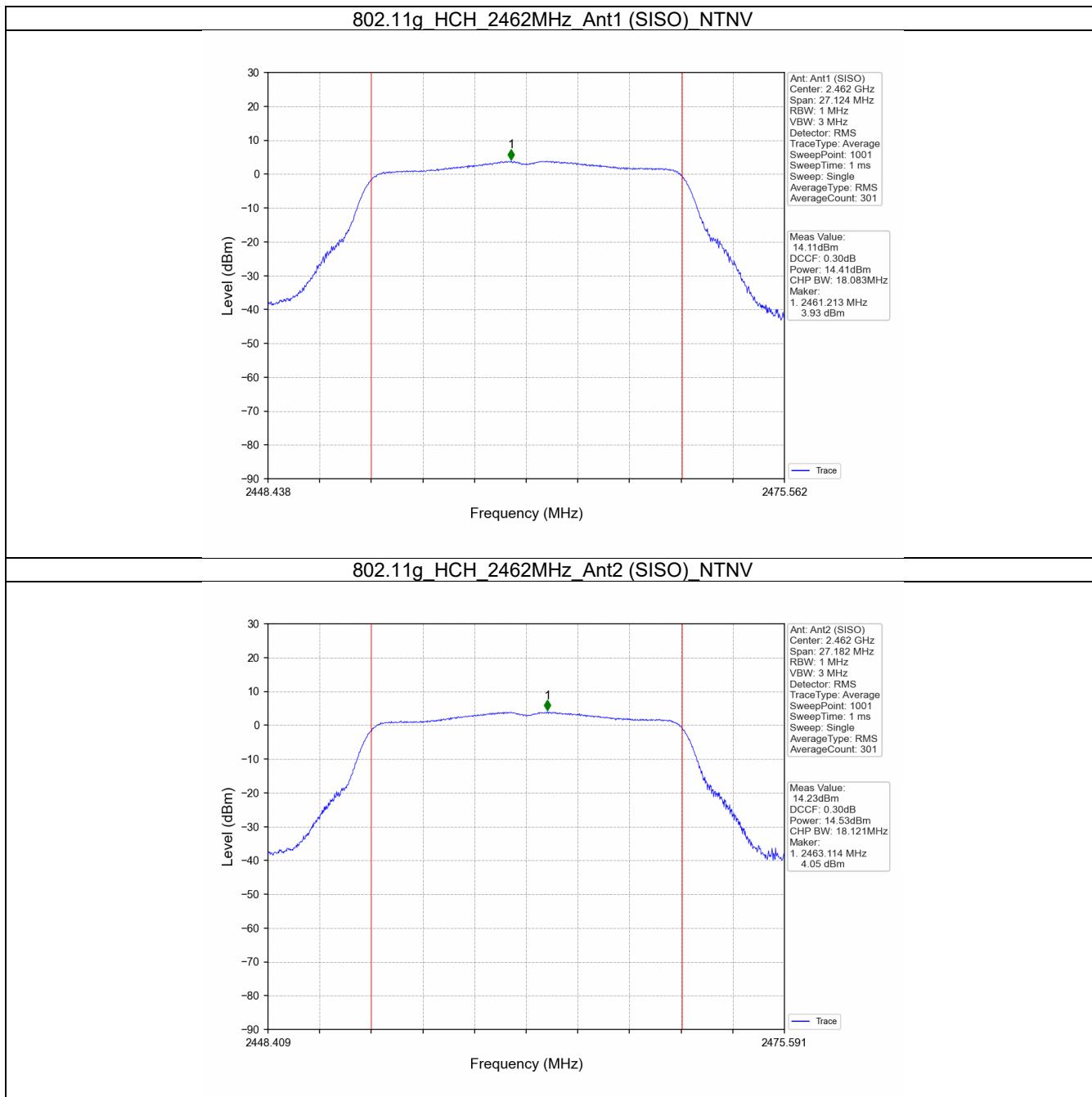


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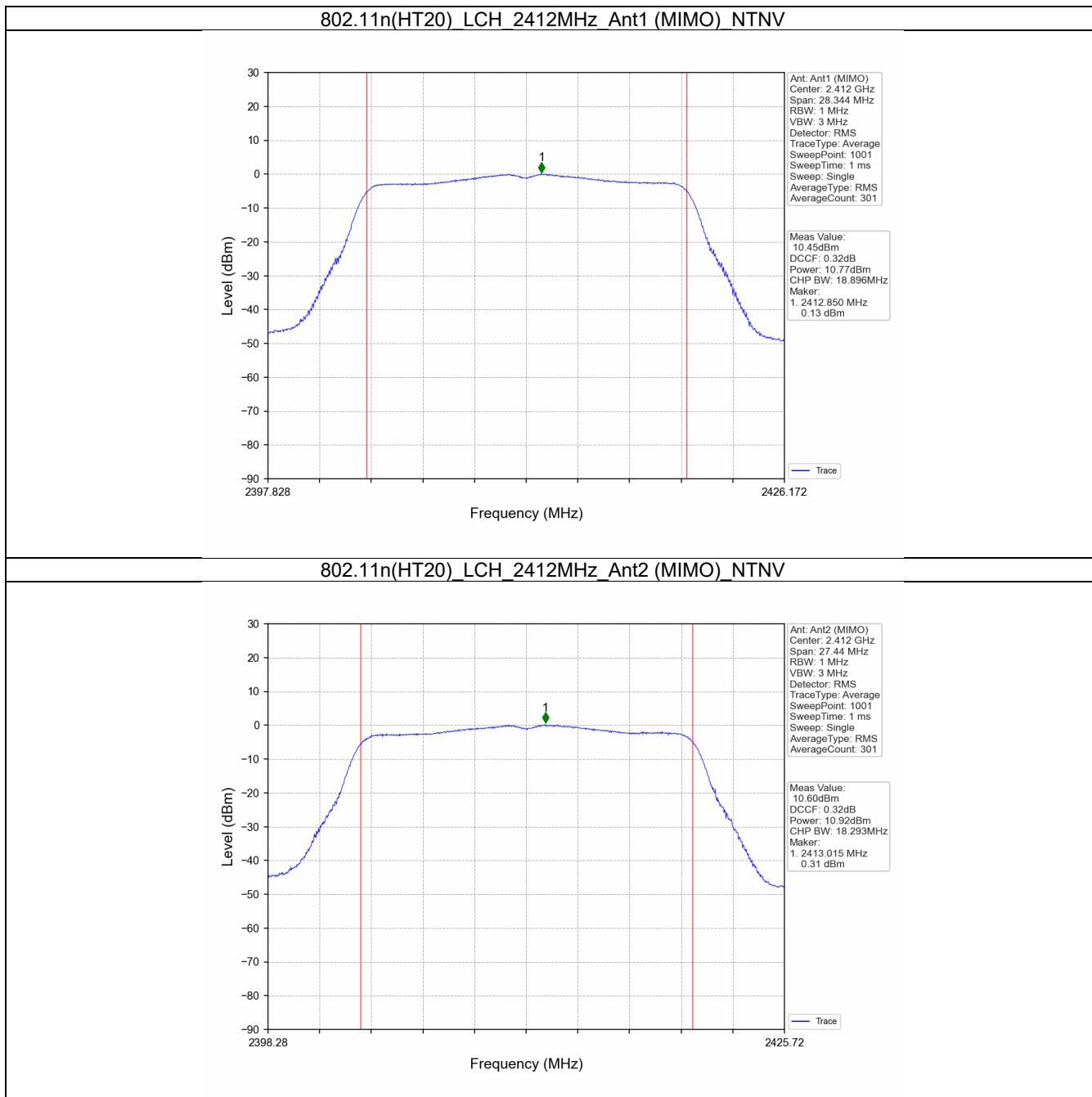


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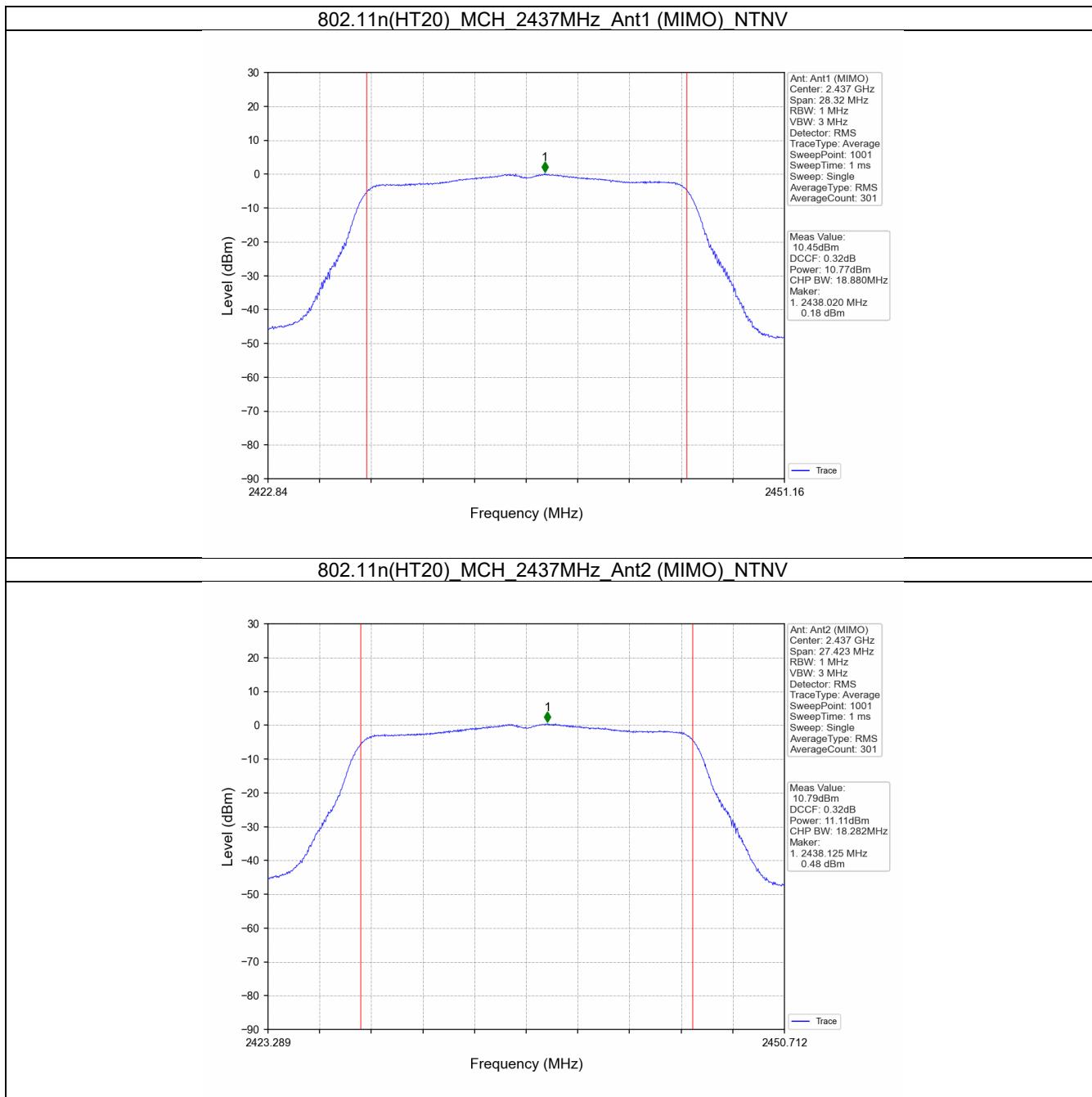
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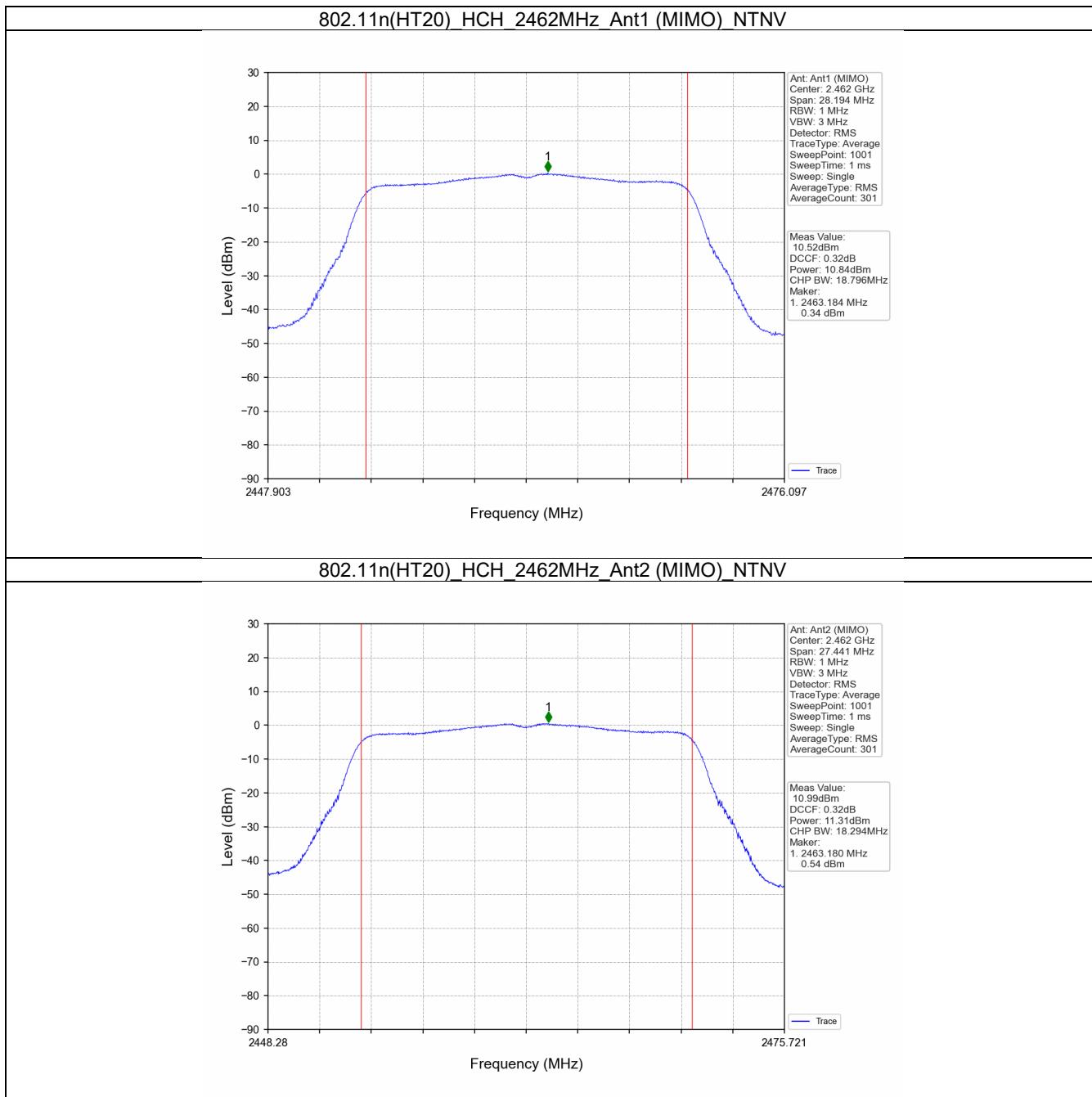
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## 4. Maximum Power Spectral Density

### 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	-7.15	-8.57	/	<=8	Pass
		2437	-7.43	-7.74	/	<=8	Pass
		2462	-6.54	-7.76	/	<=8	Pass
802.11g	SISO	2412	-9.60	-10.96	/	<=8	Pass
		2437	-9.81	-10.36	/	<=8	Pass
		2462	-10.11	-10.10	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-14.61	-13.90	-12.08	<=8	Pass
		2437	-14.23	-14.86	-12.25	<=8	Pass
		2462	-14.30	-14.77	-11.54	<=8	Pass

Note1: Antenna Gain: Ant1: 2.70dBi; Ant2: 1.00dBi;

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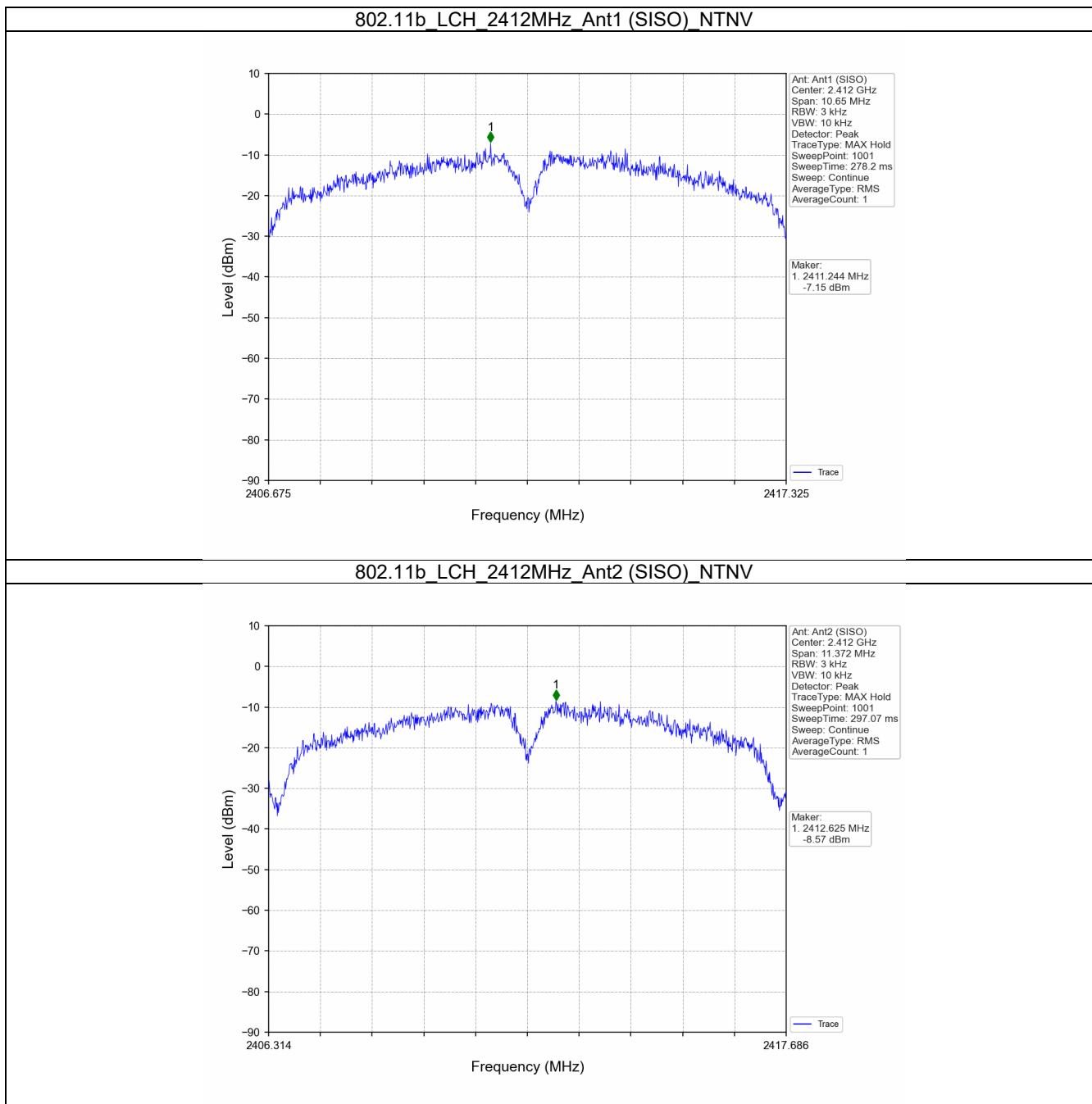
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## 4.1.2 Test Graph



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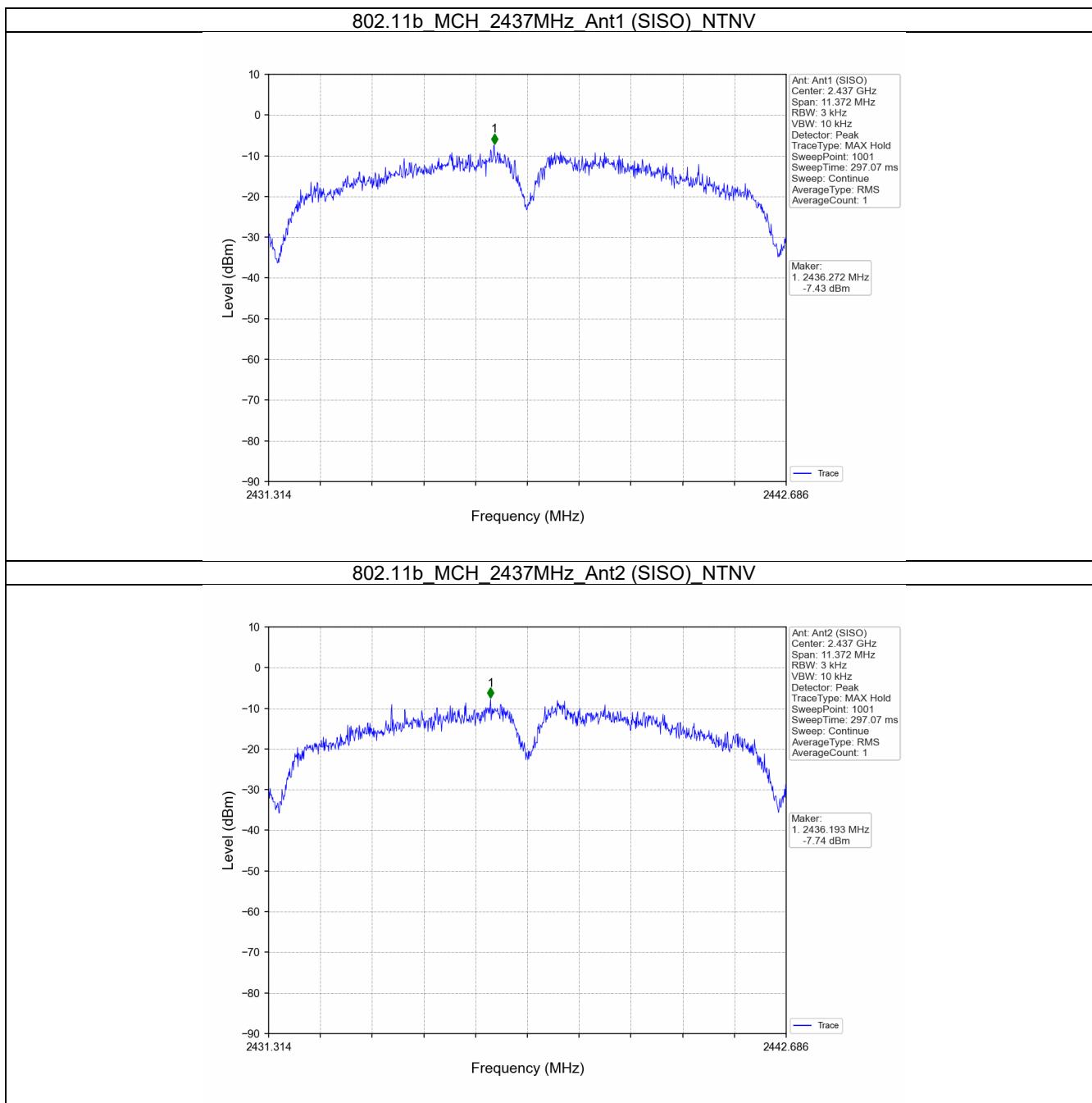


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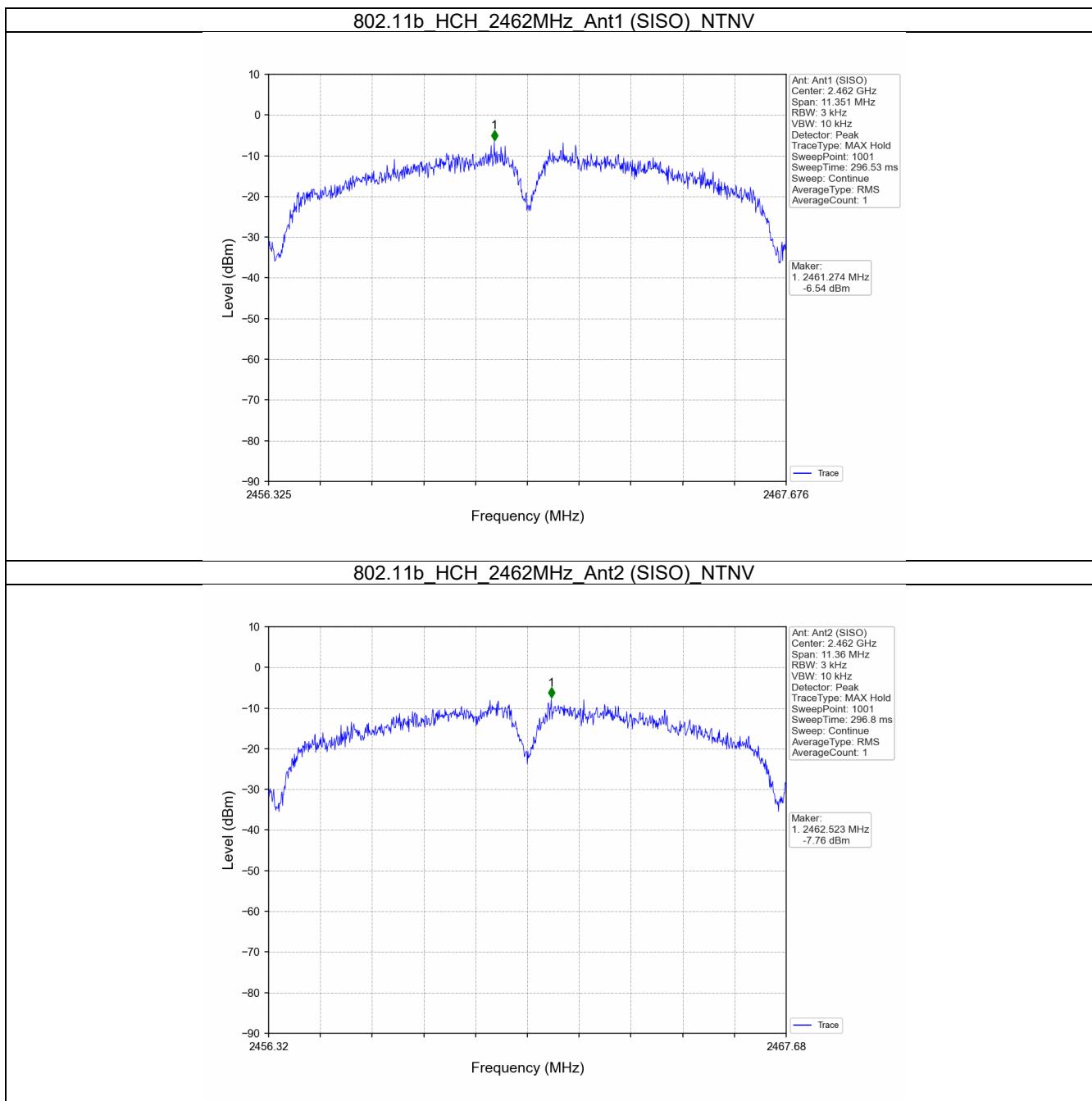
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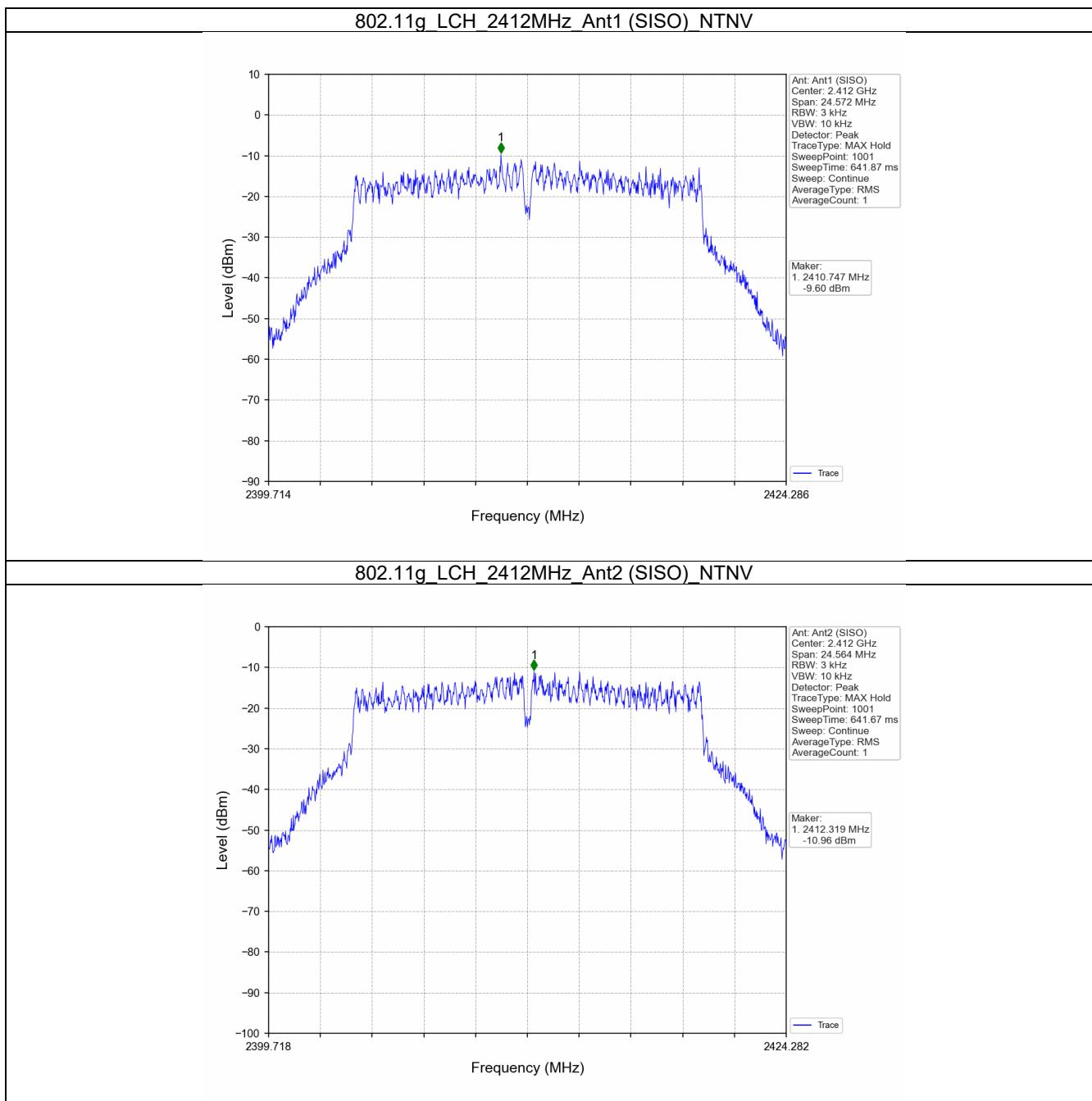
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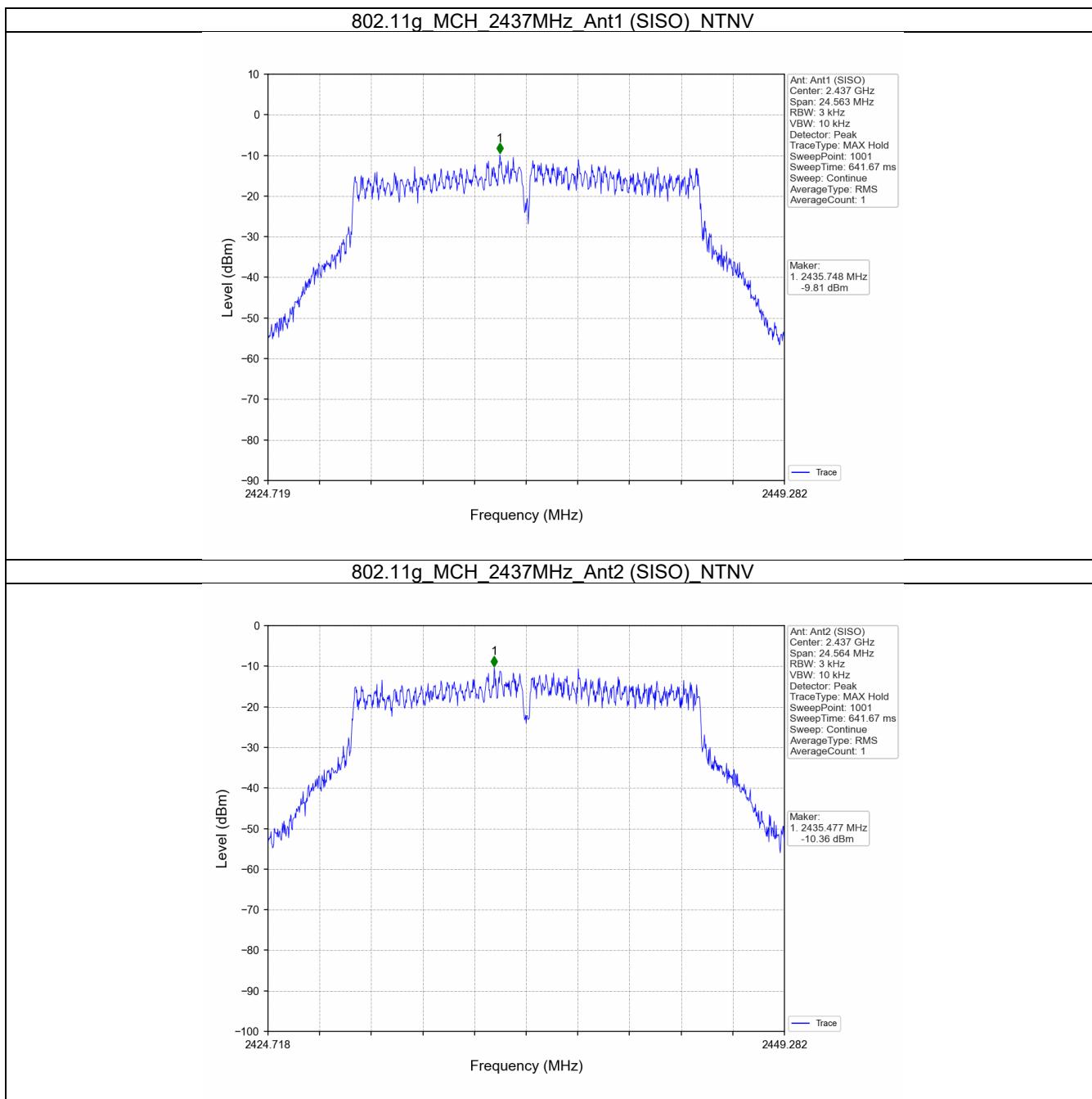
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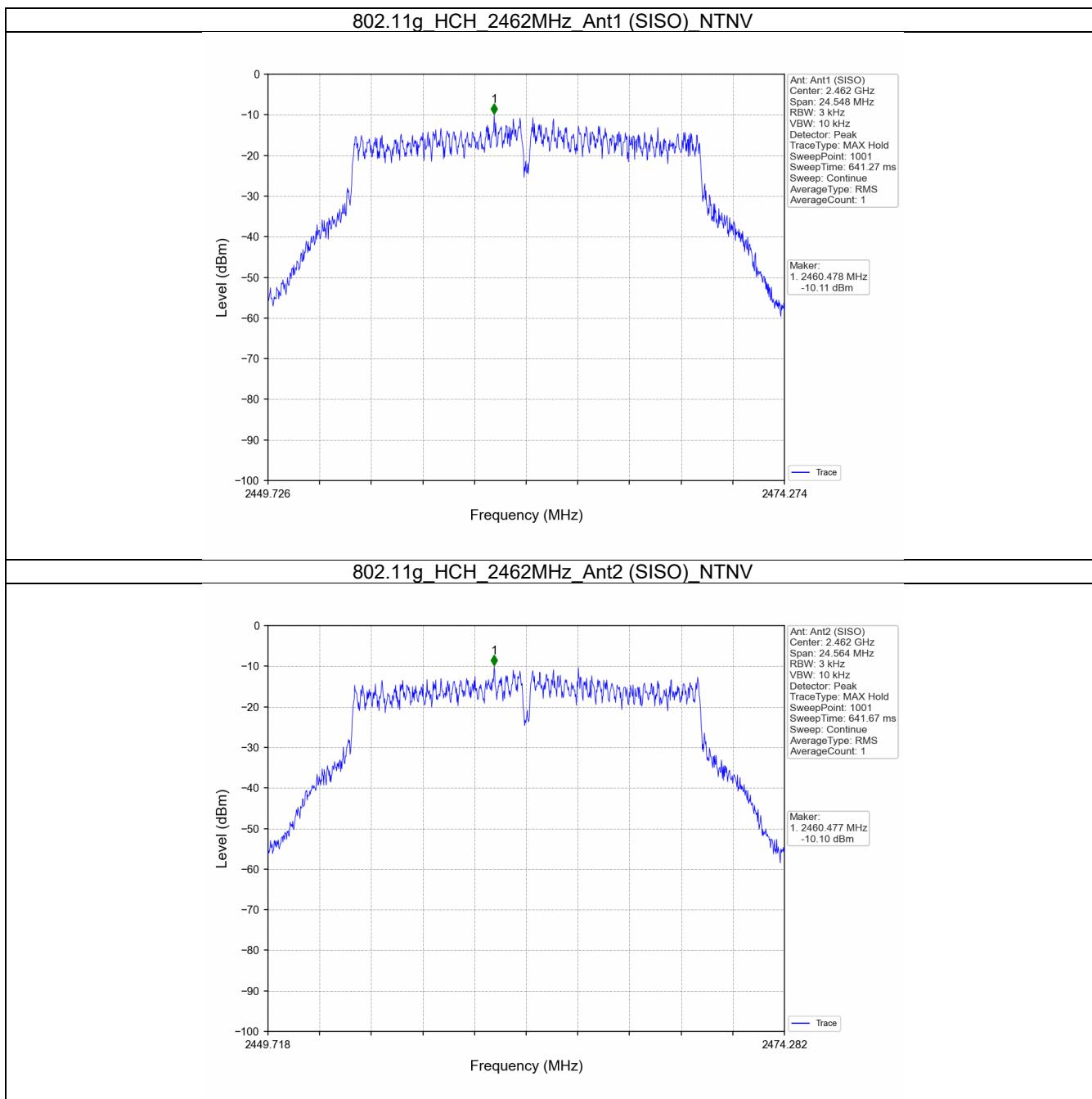
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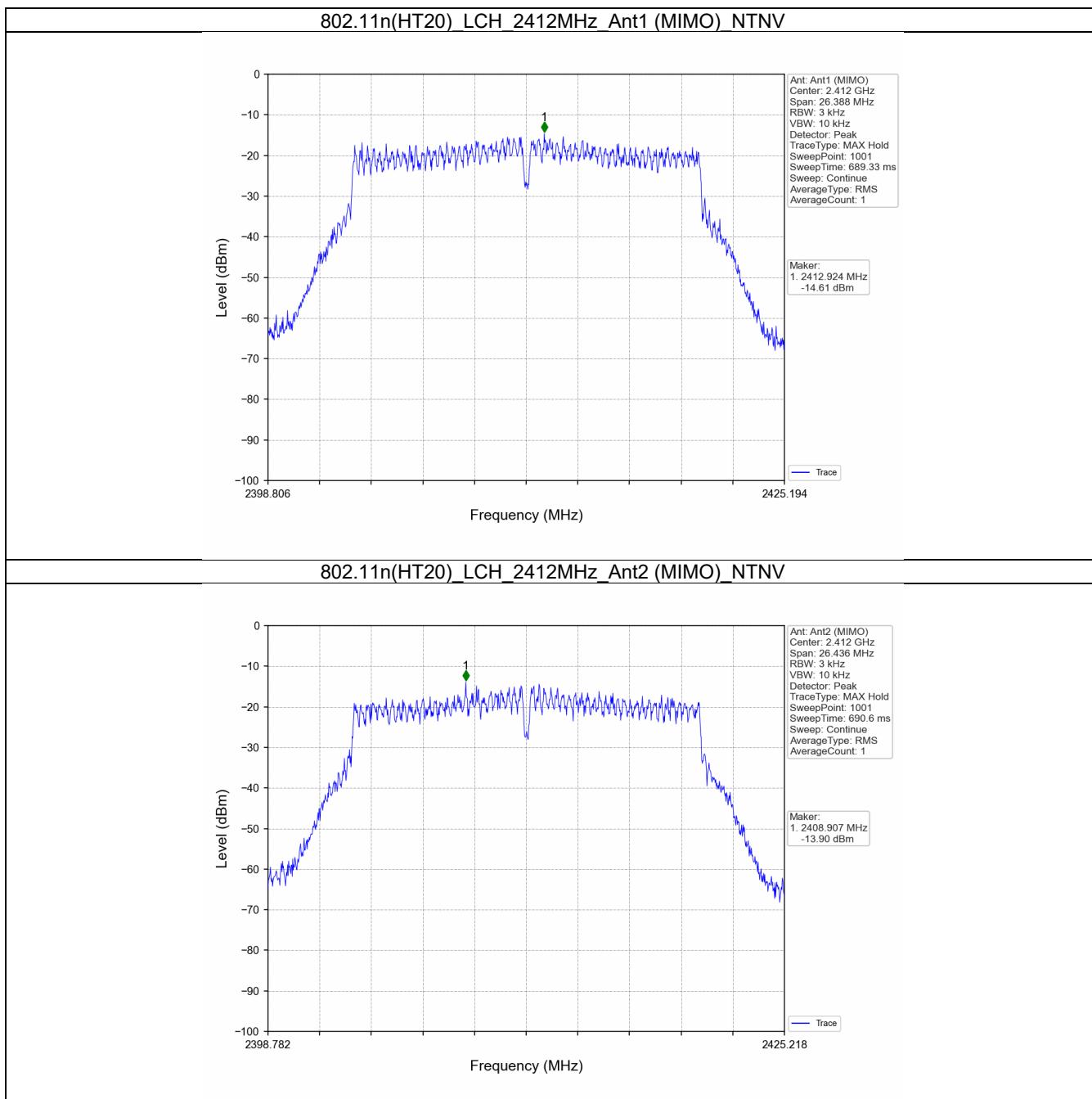
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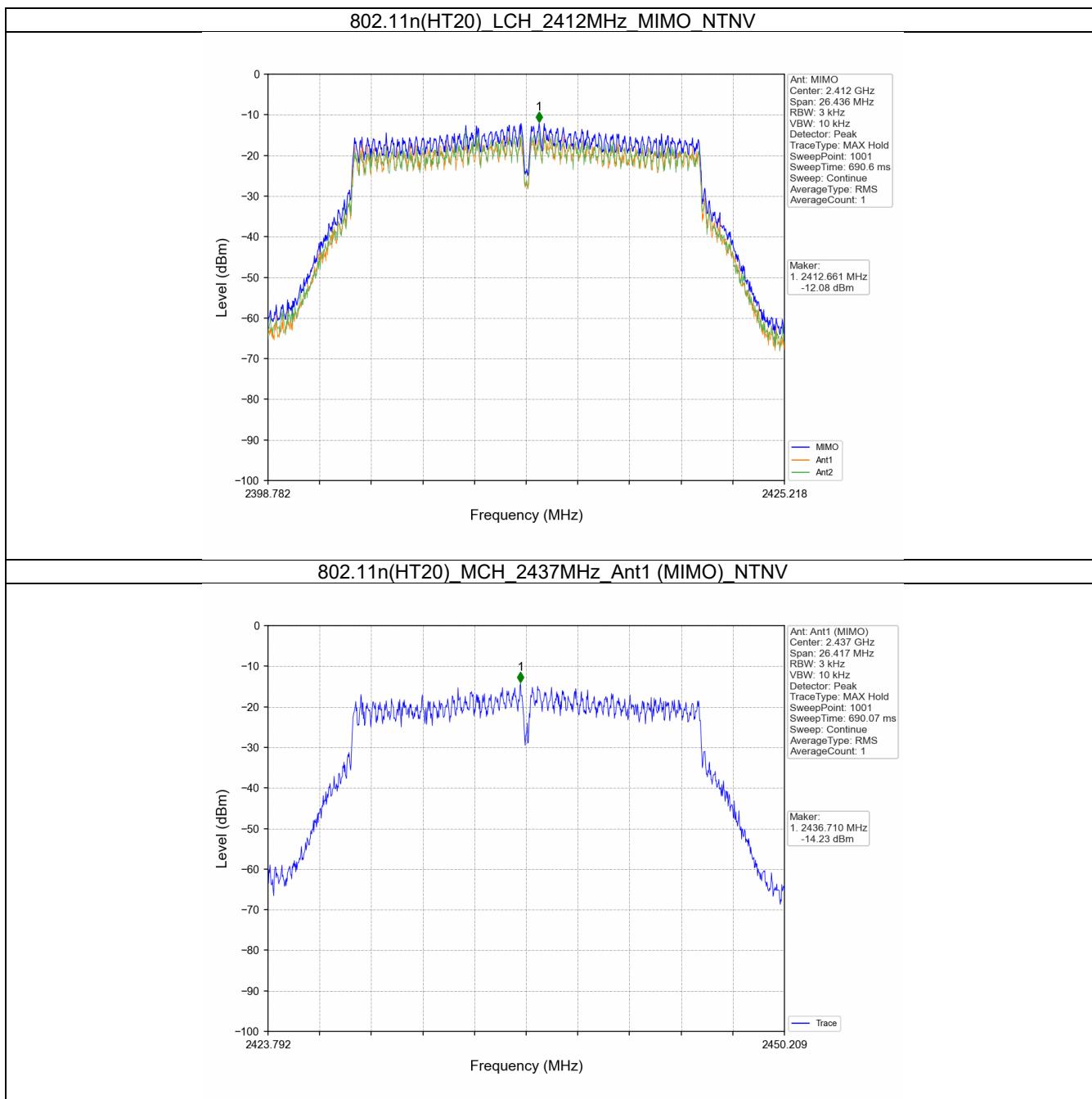
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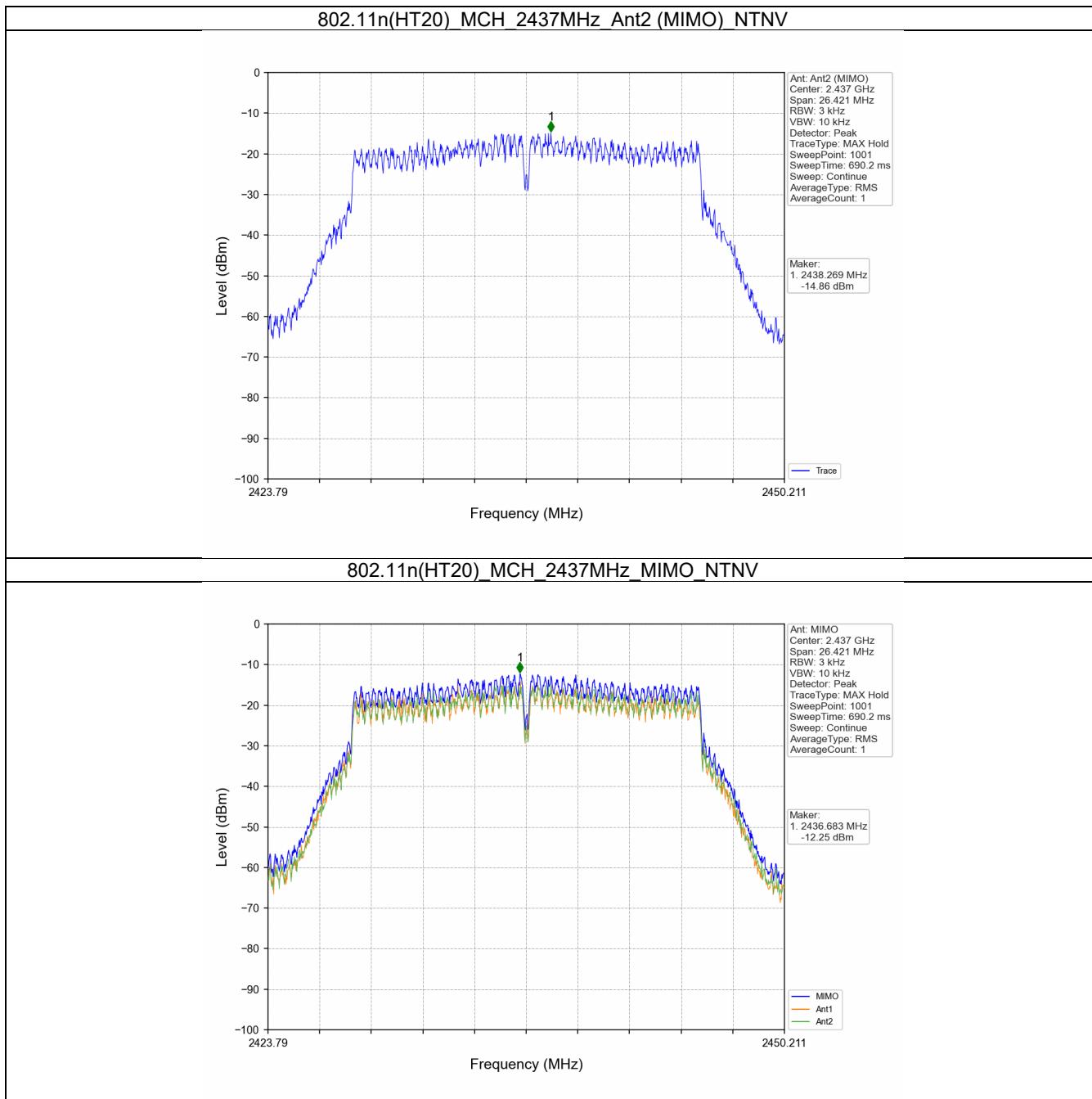
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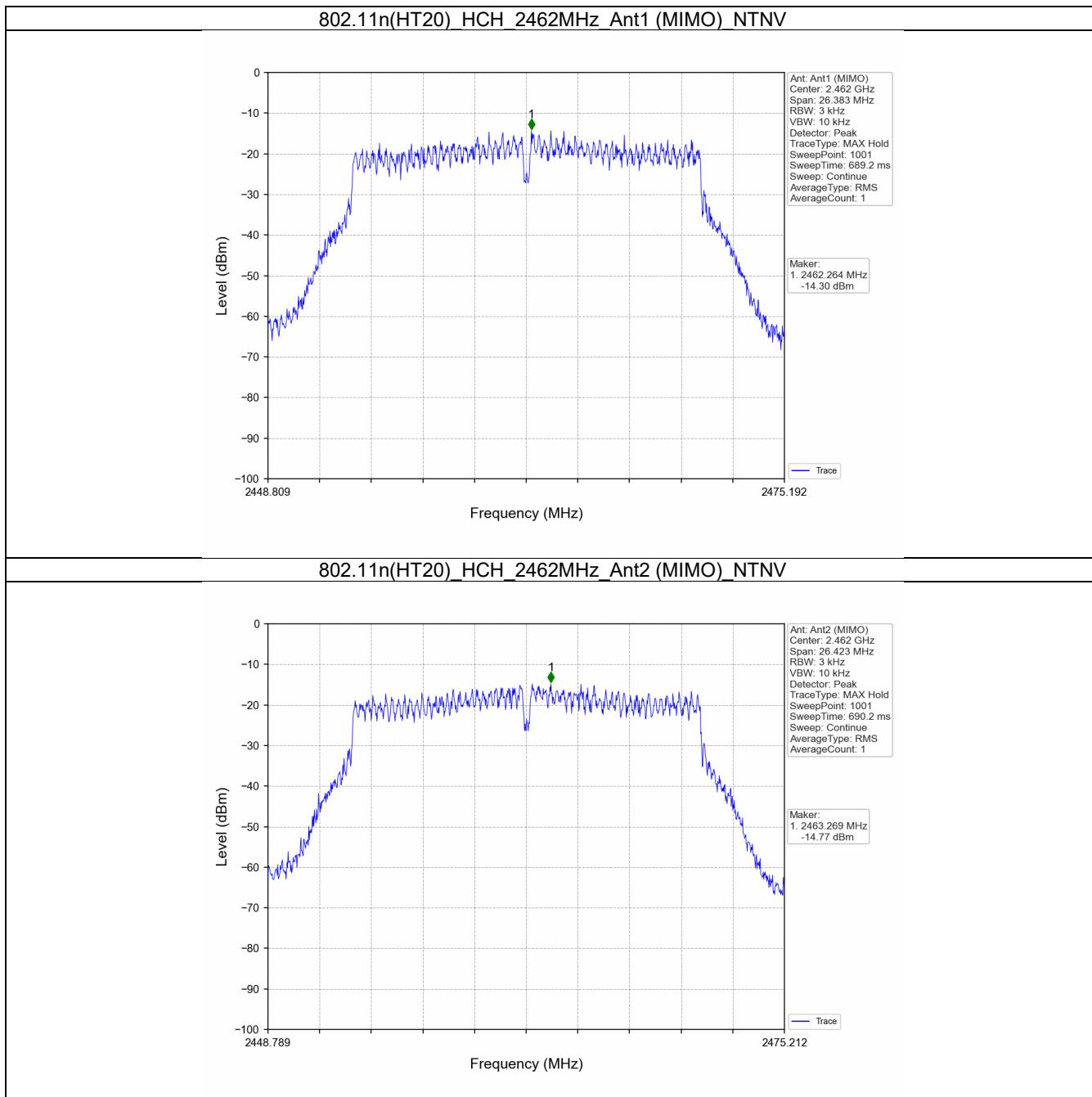
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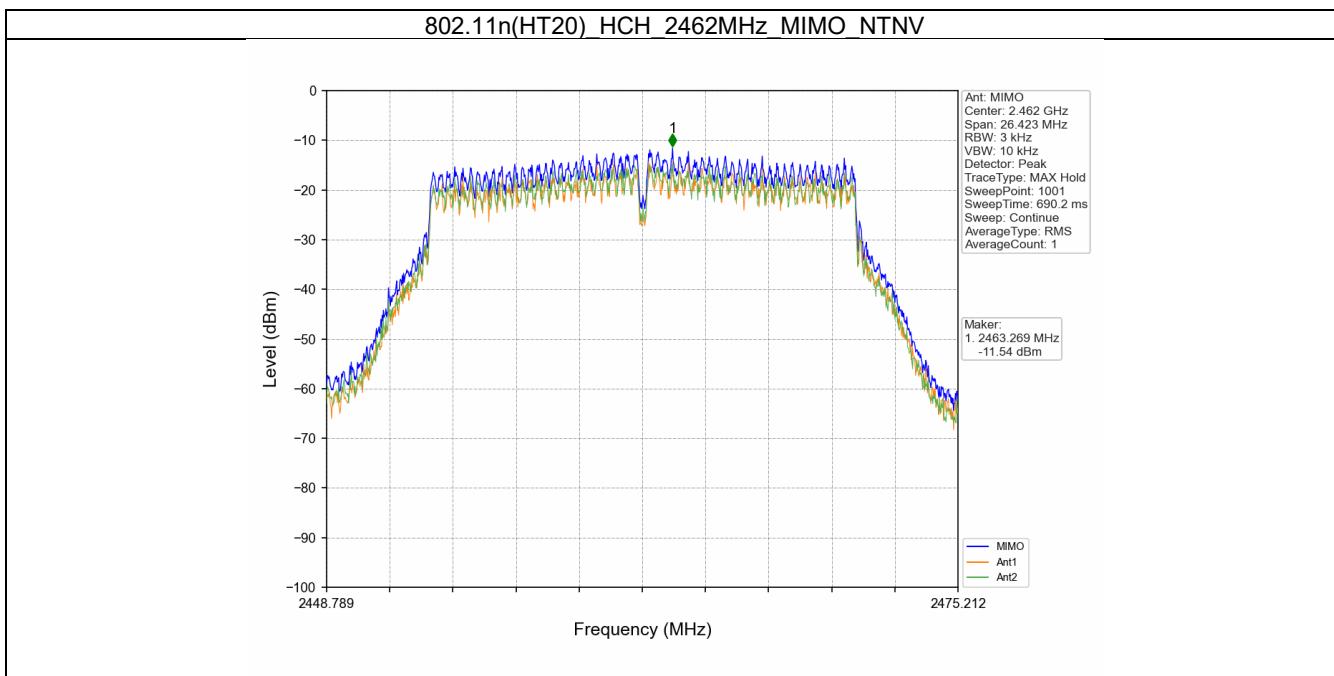
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	6.79
			2	6.94
		2437	1	6.80
			2	6.97
		2462	1	7.14
			2	7.27
802.11g	SISO	2412	1	2.64
			2	2.47
		2437	1	2.81
			2	2.28
		2462	1	2.41
			2	2.32
802.11n (HT20)	MIMO	2412	1	-1.31
			2	-0.72
		2437	1	-1.15
			2	-0.63
		2462	1	-0.95
			2	-0.21

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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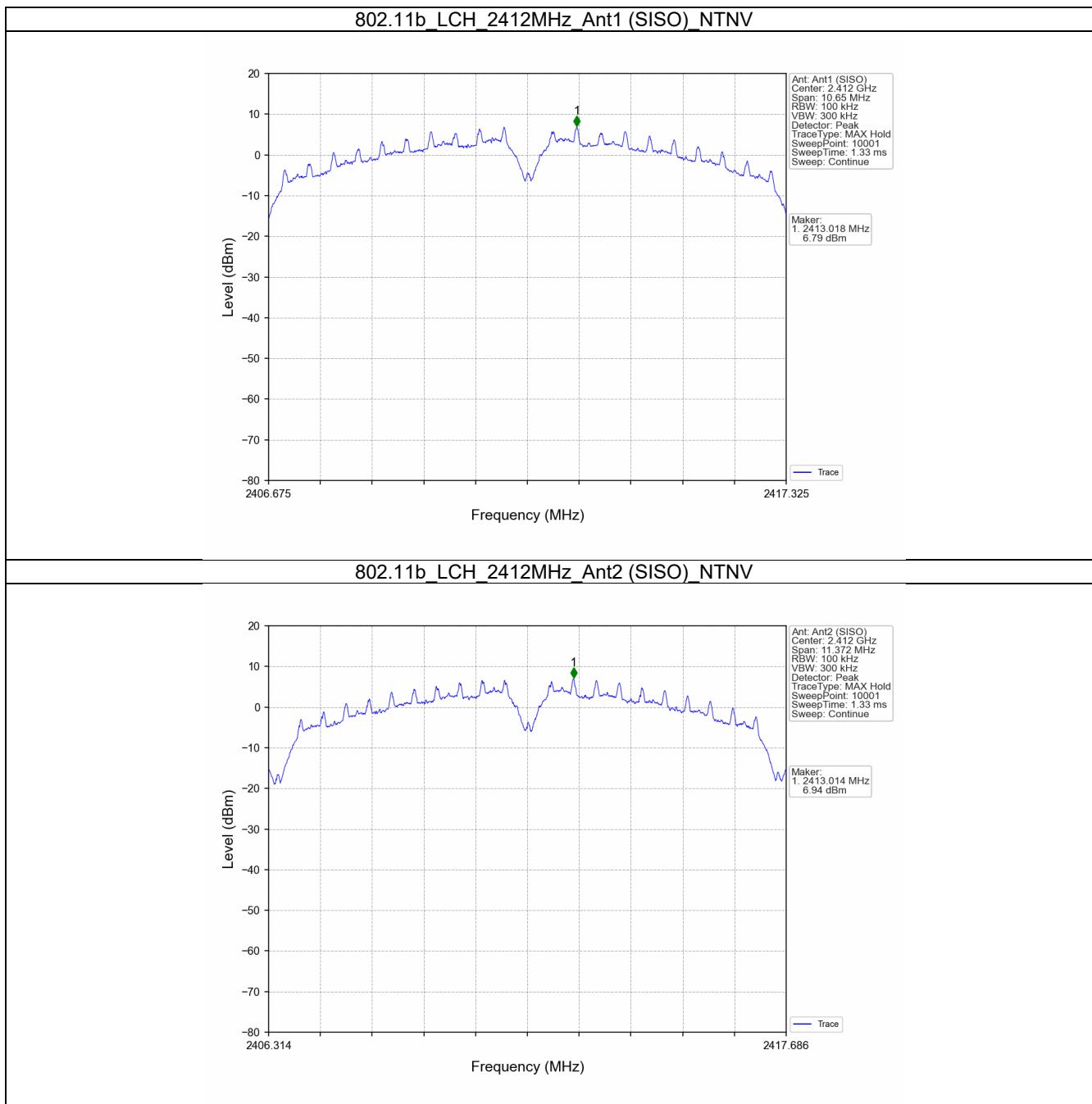
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## 5.1.2 Test Graph



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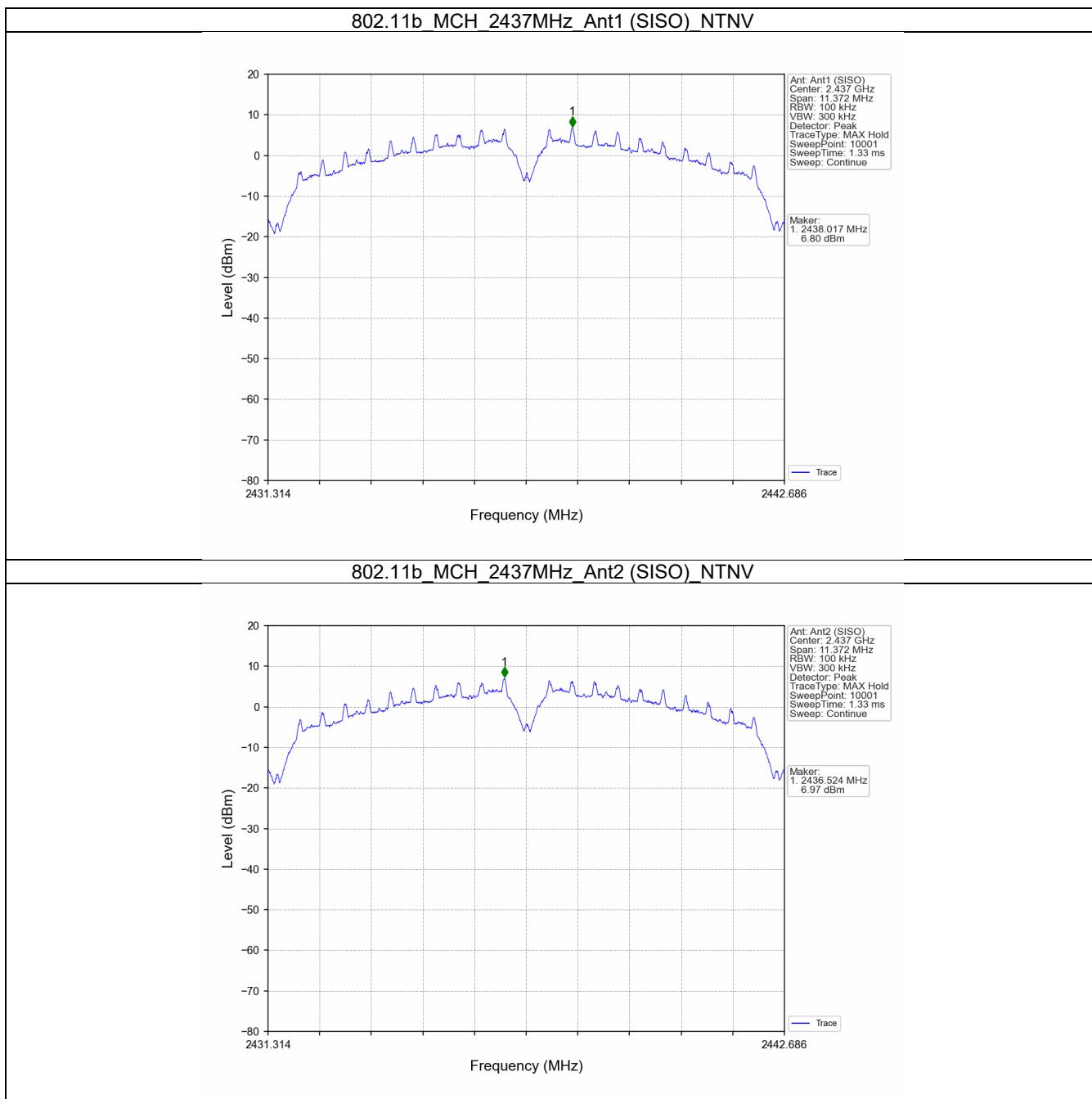
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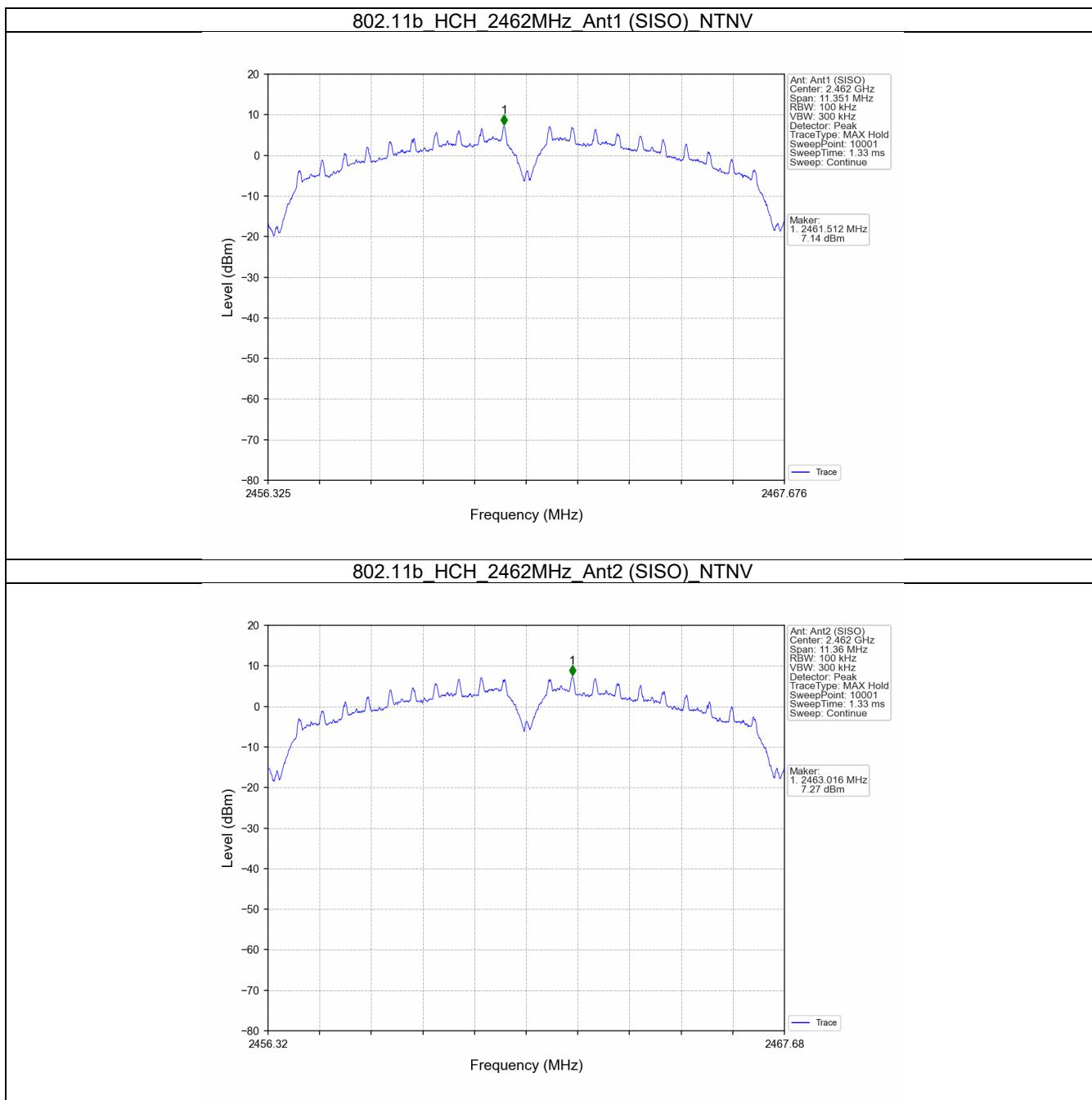
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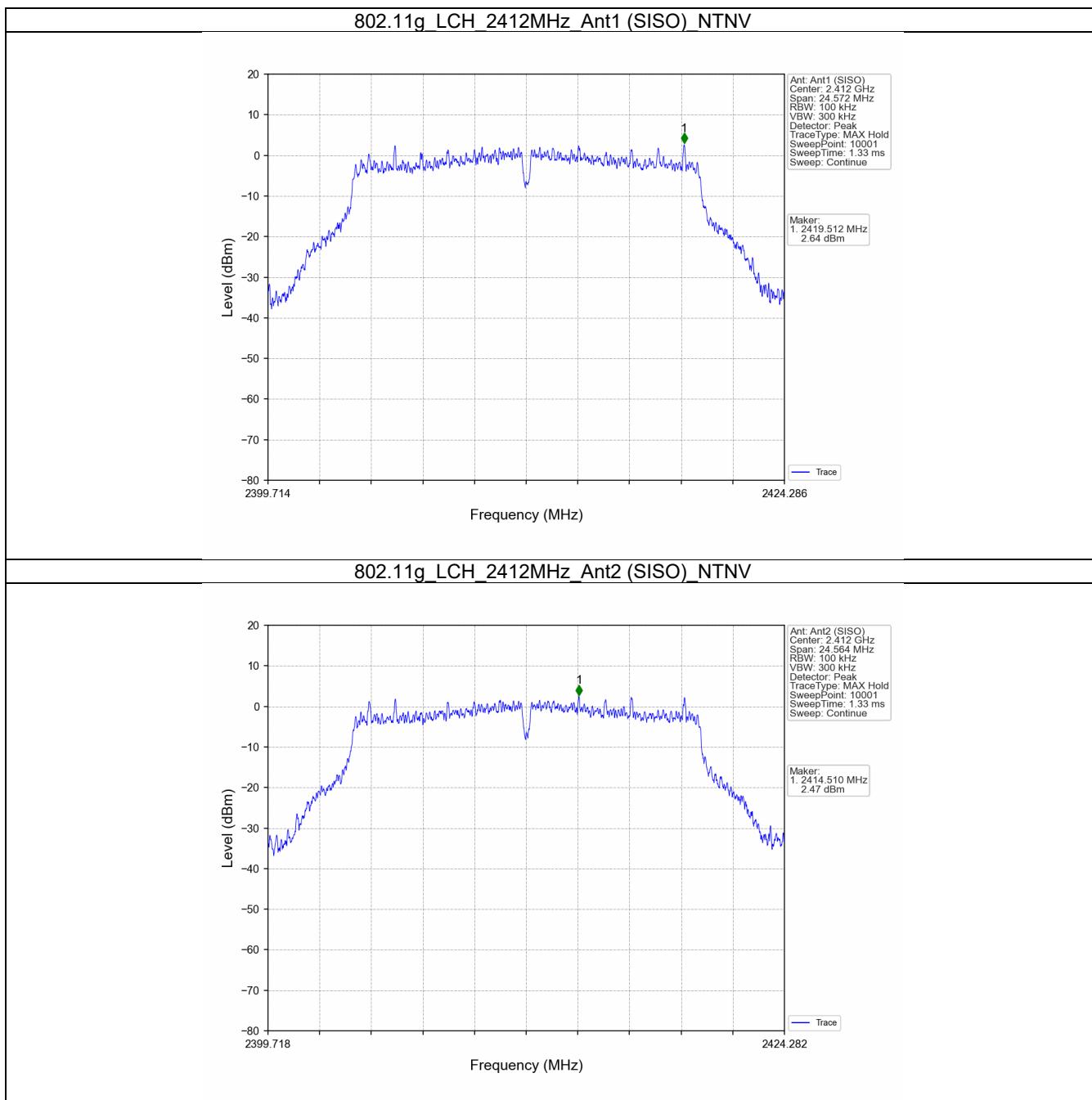
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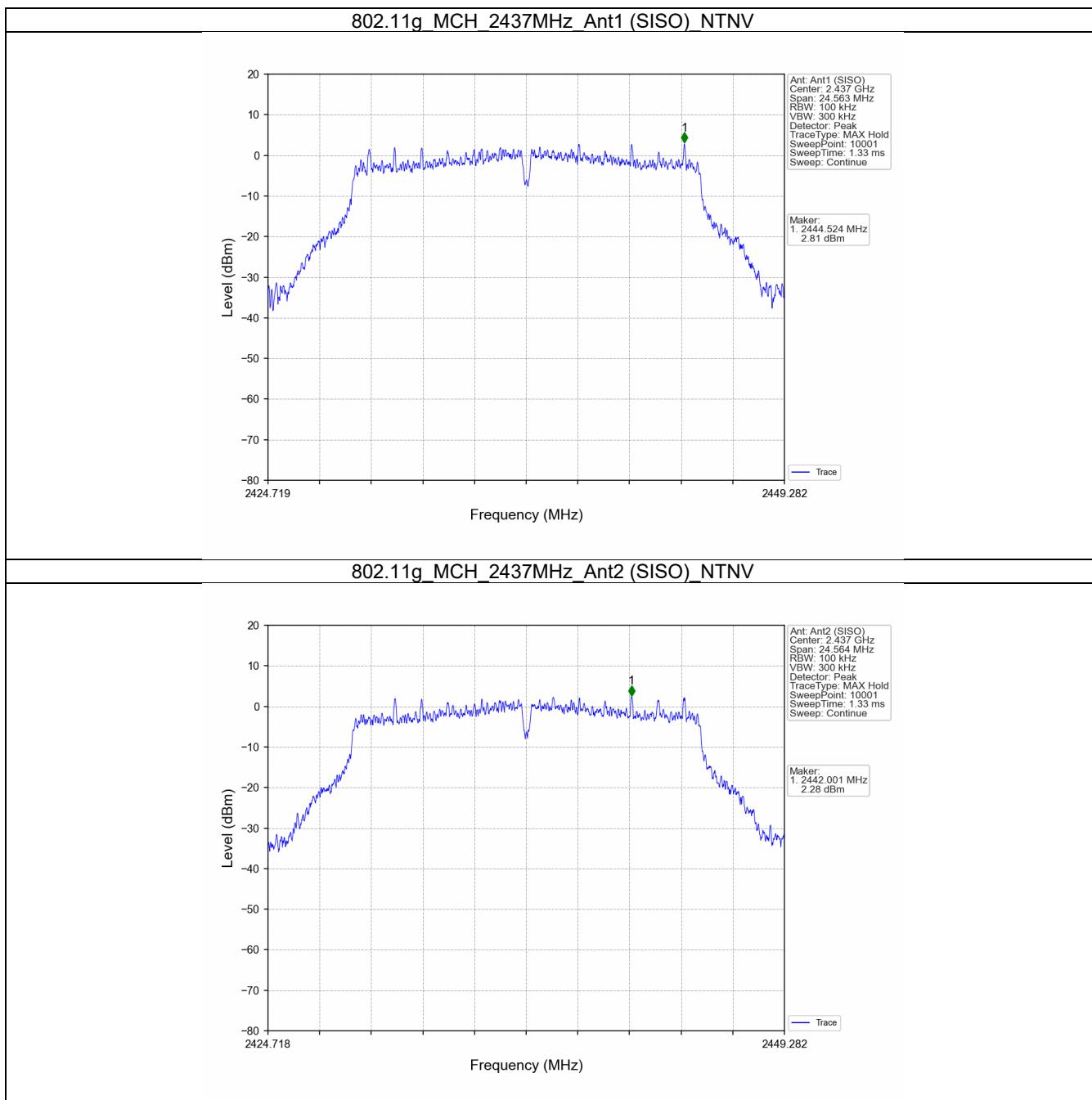
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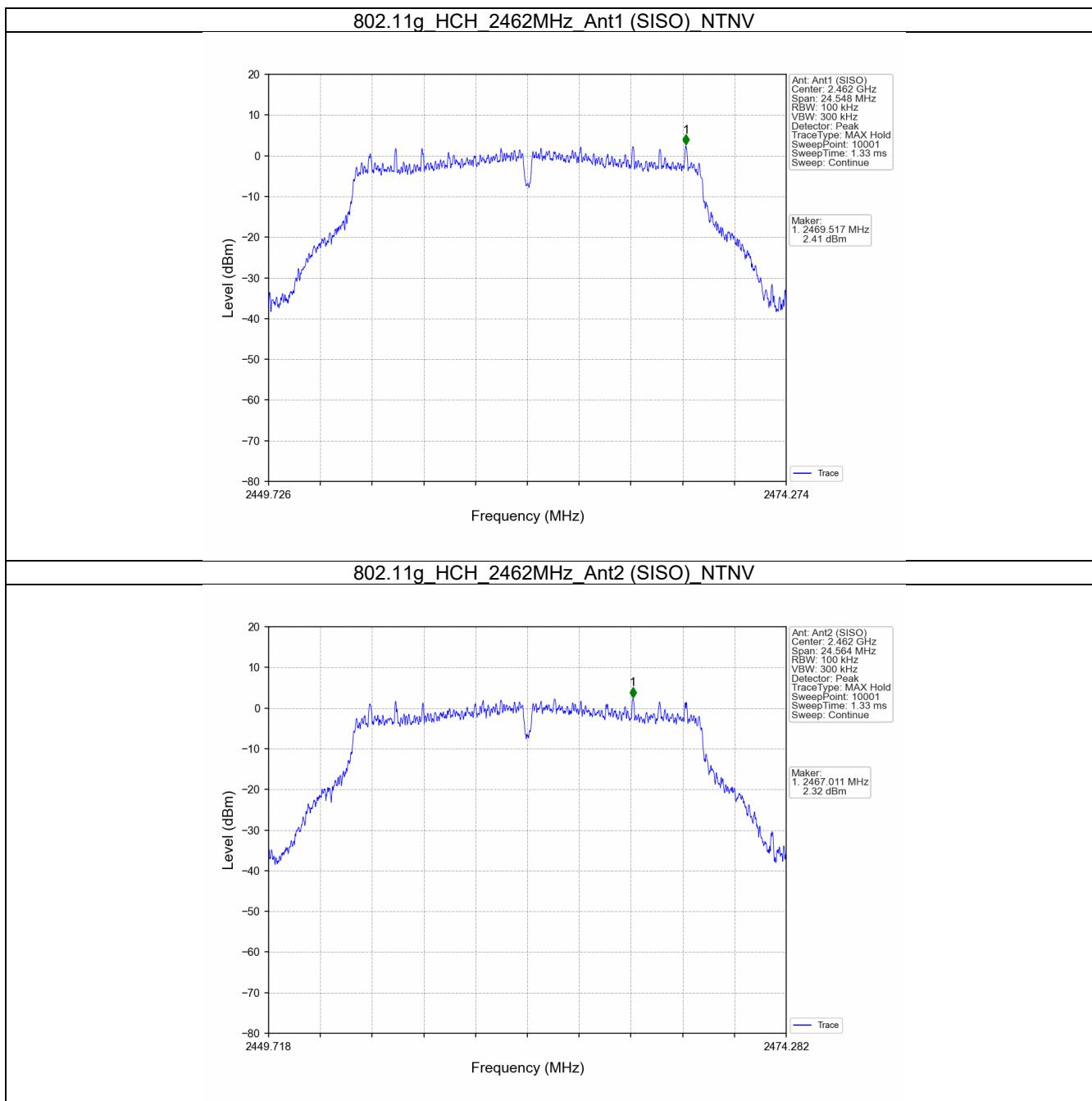
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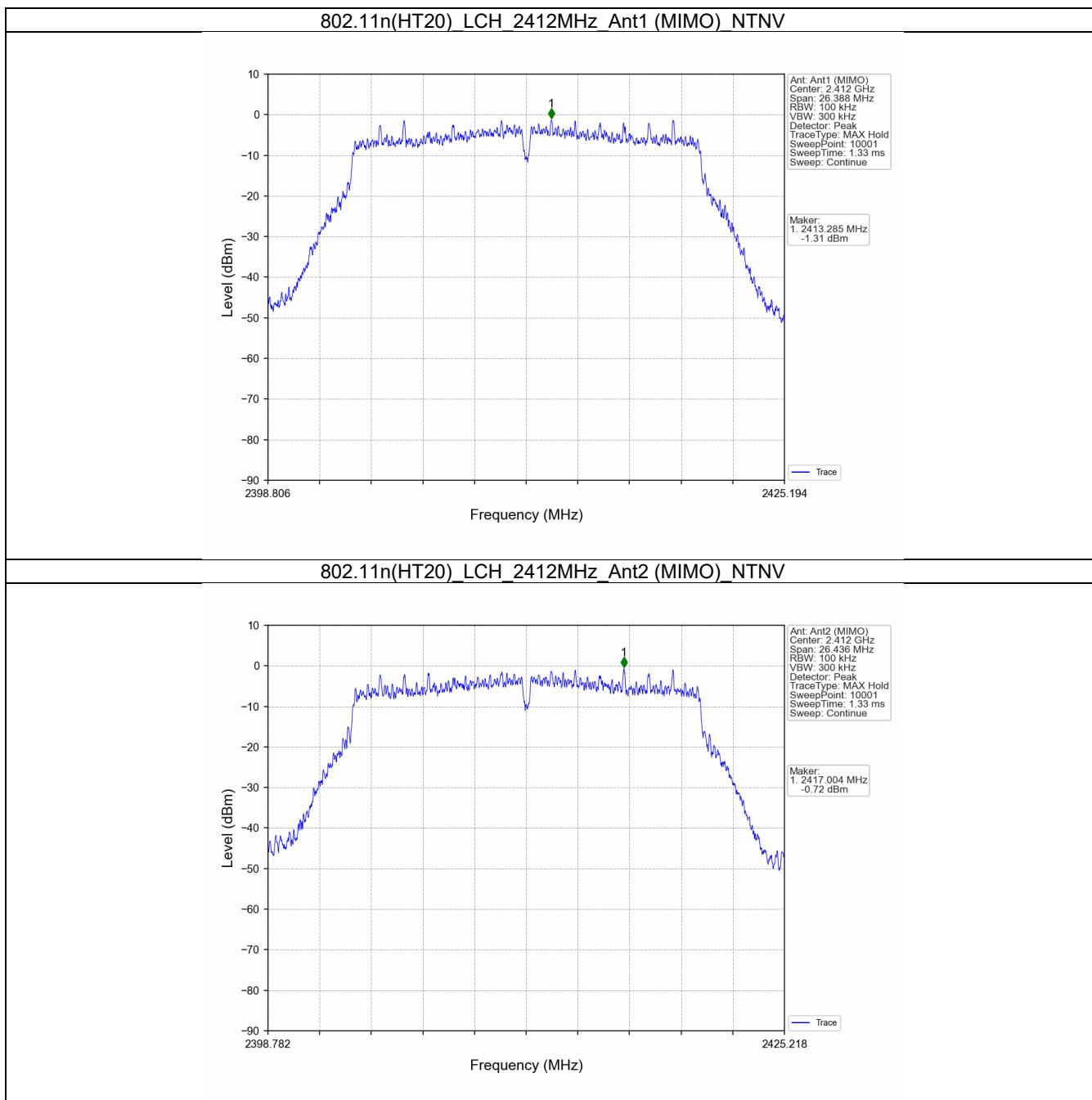
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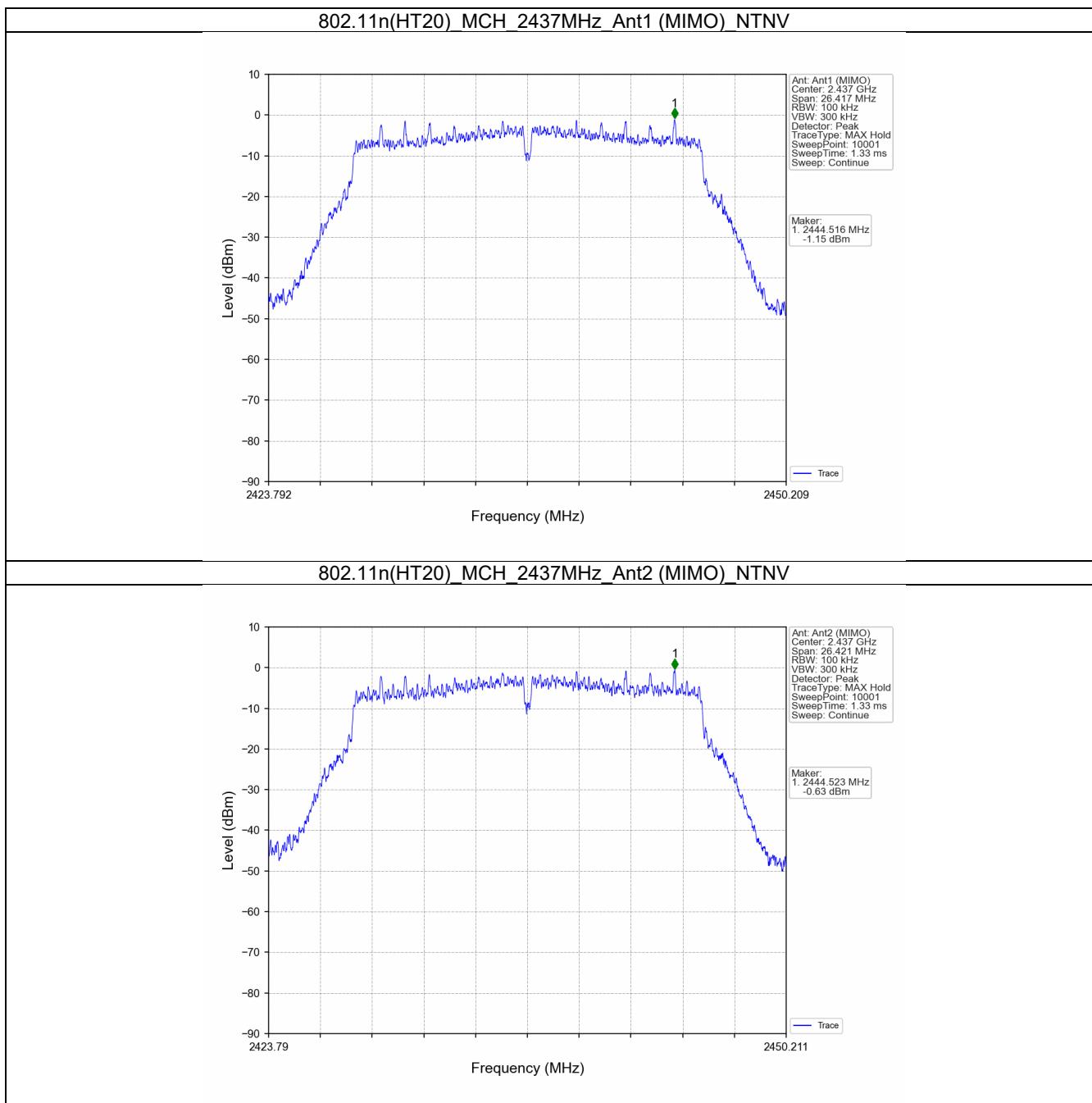
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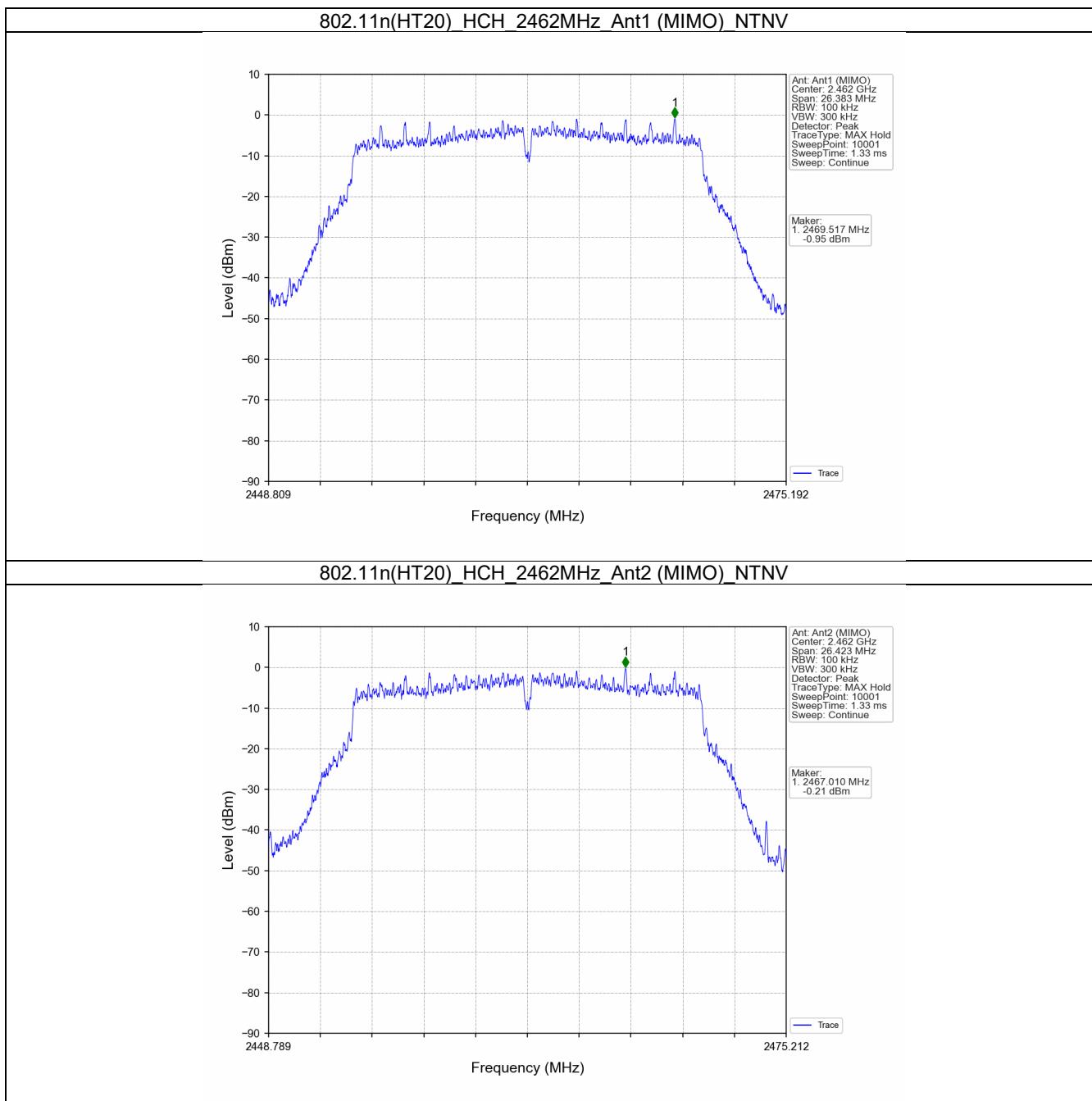
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## 5.2 CSE

## 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	7.14	-22.86	Pass
			2	7.27	-22.73	Pass
		2437	1	7.14	-22.86	Pass
			2	7.27	-22.73	Pass
		2462	1	7.14	-22.86	Pass
			2	7.27	-22.73	Pass
		2412	1	2.81	-27.19	Pass
			2	2.47	-27.53	Pass
802.11g	SISO	2437	1	2.81	-27.19	Pass
			2	2.47	-27.53	Pass
		2462	1	2.81	-27.19	Pass
			2	2.47	-27.53	Pass
802.11n (HT20)	MIMO	2412	1	-0.95	-30.95	Pass
			2	-0.21	-30.21	Pass
		2437	1	-0.95	-30.95	Pass
			2	-0.21	-30.21	Pass
		2462	1	-0.95	-30.95	Pass
			2	-0.21	-30.21	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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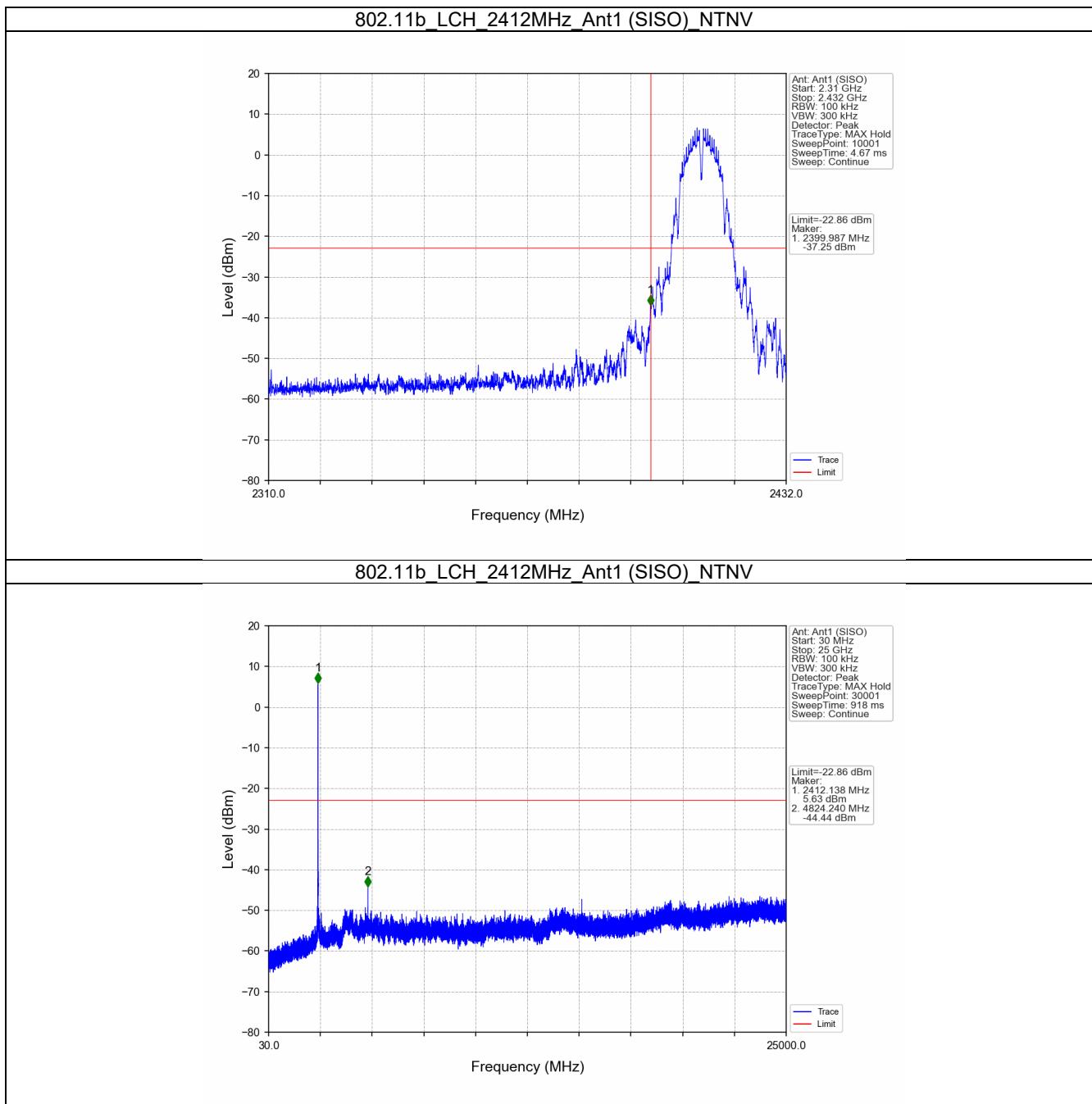
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## 5.2.2 Test Graph



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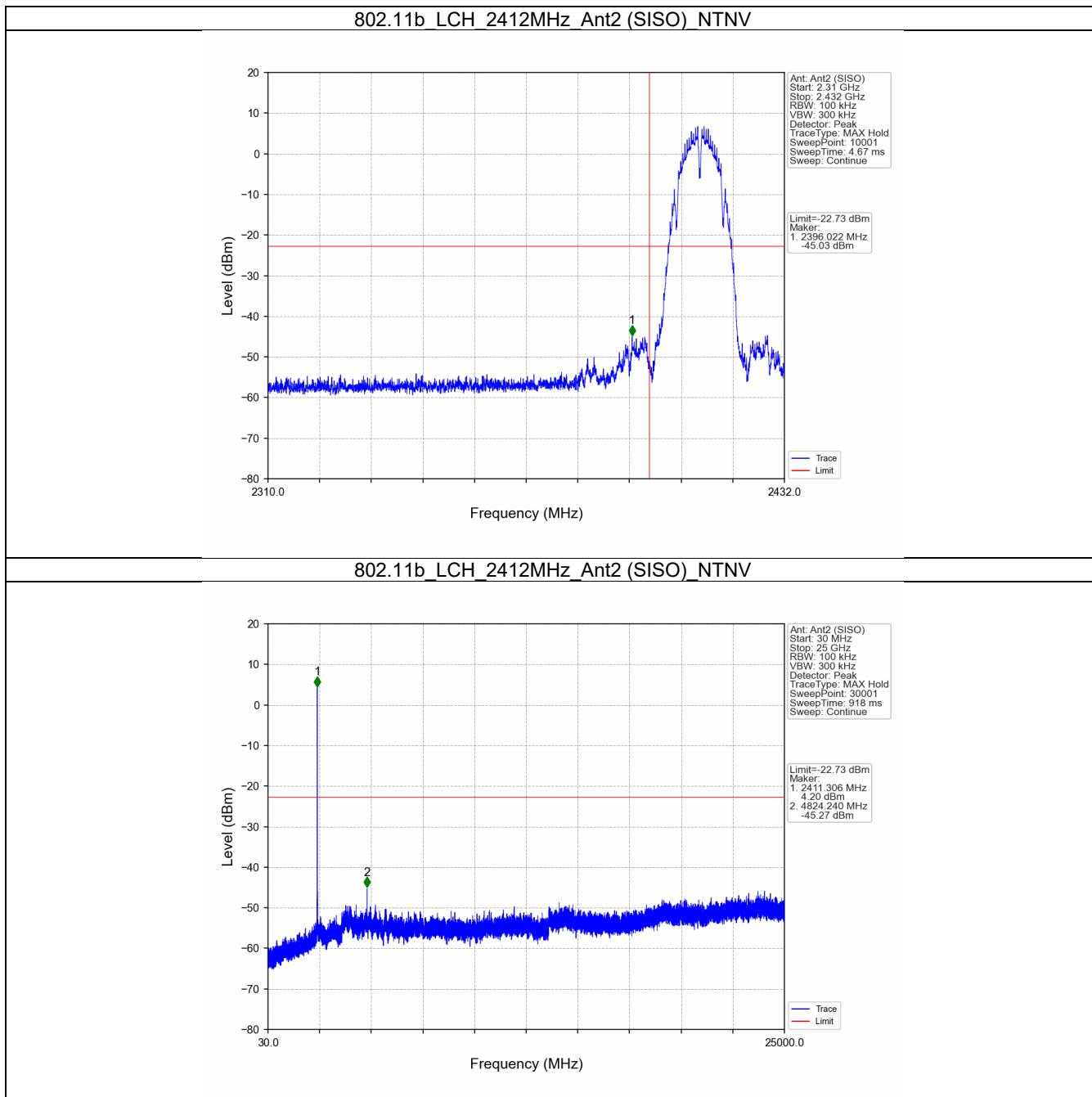
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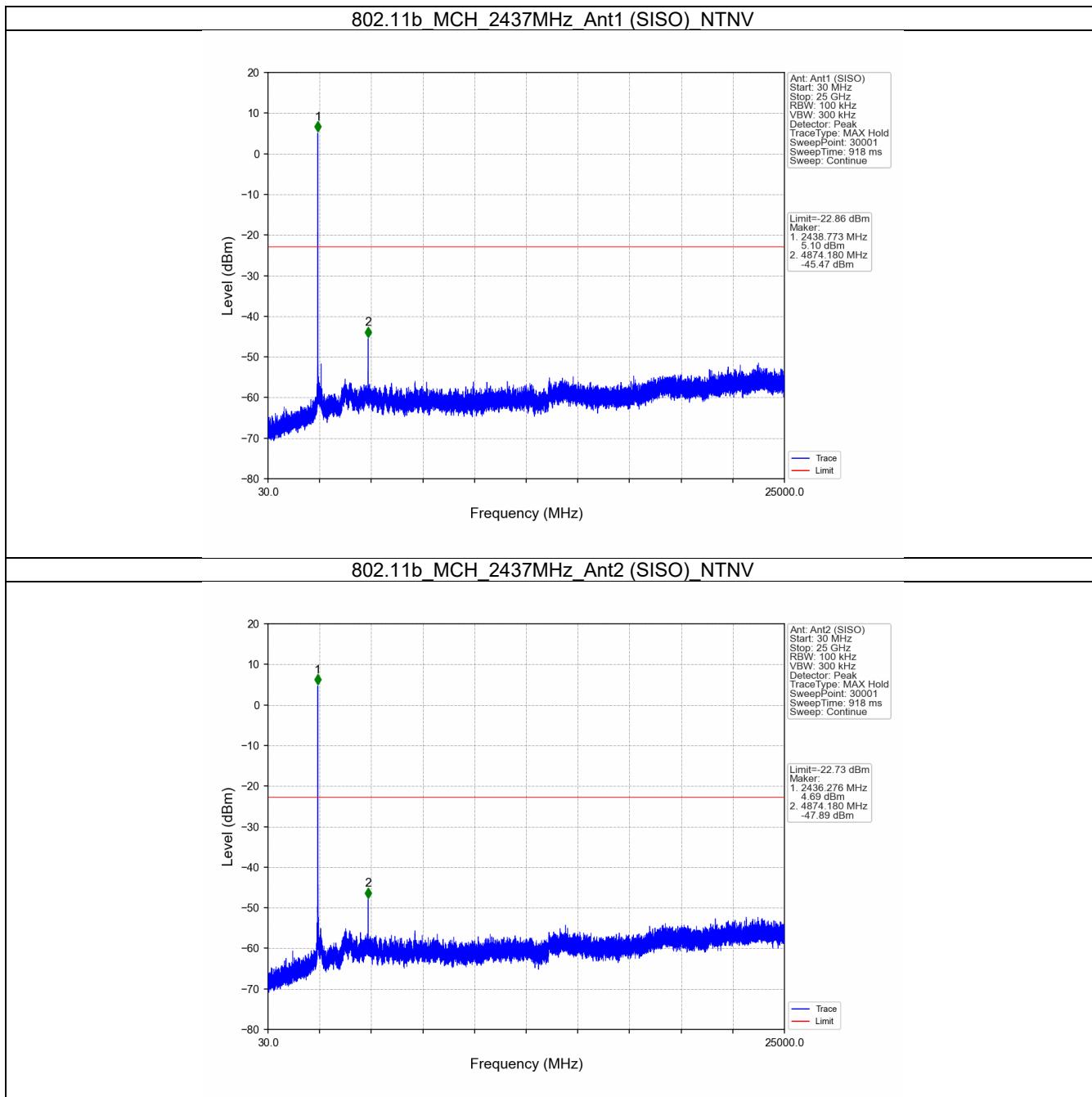
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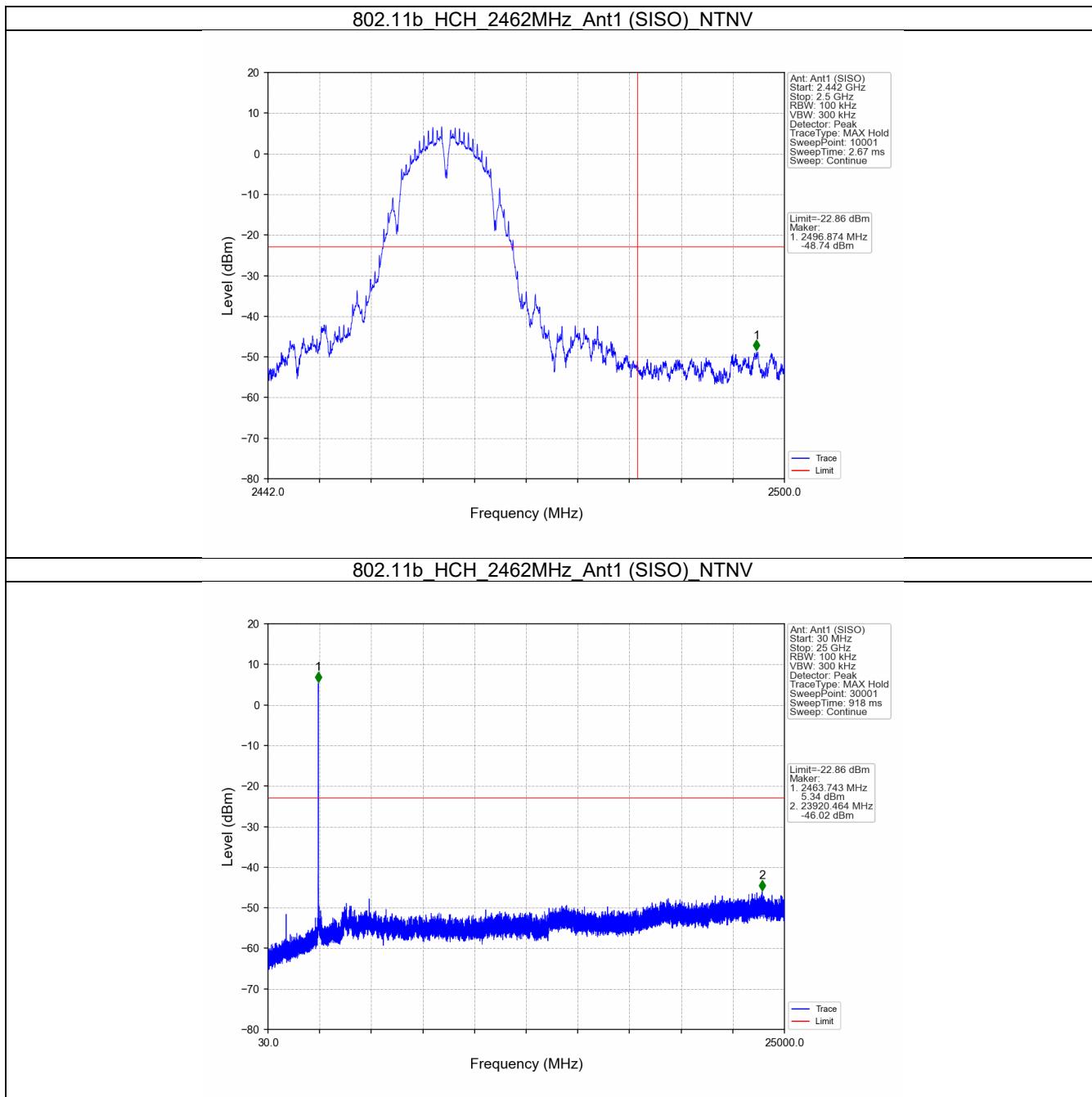
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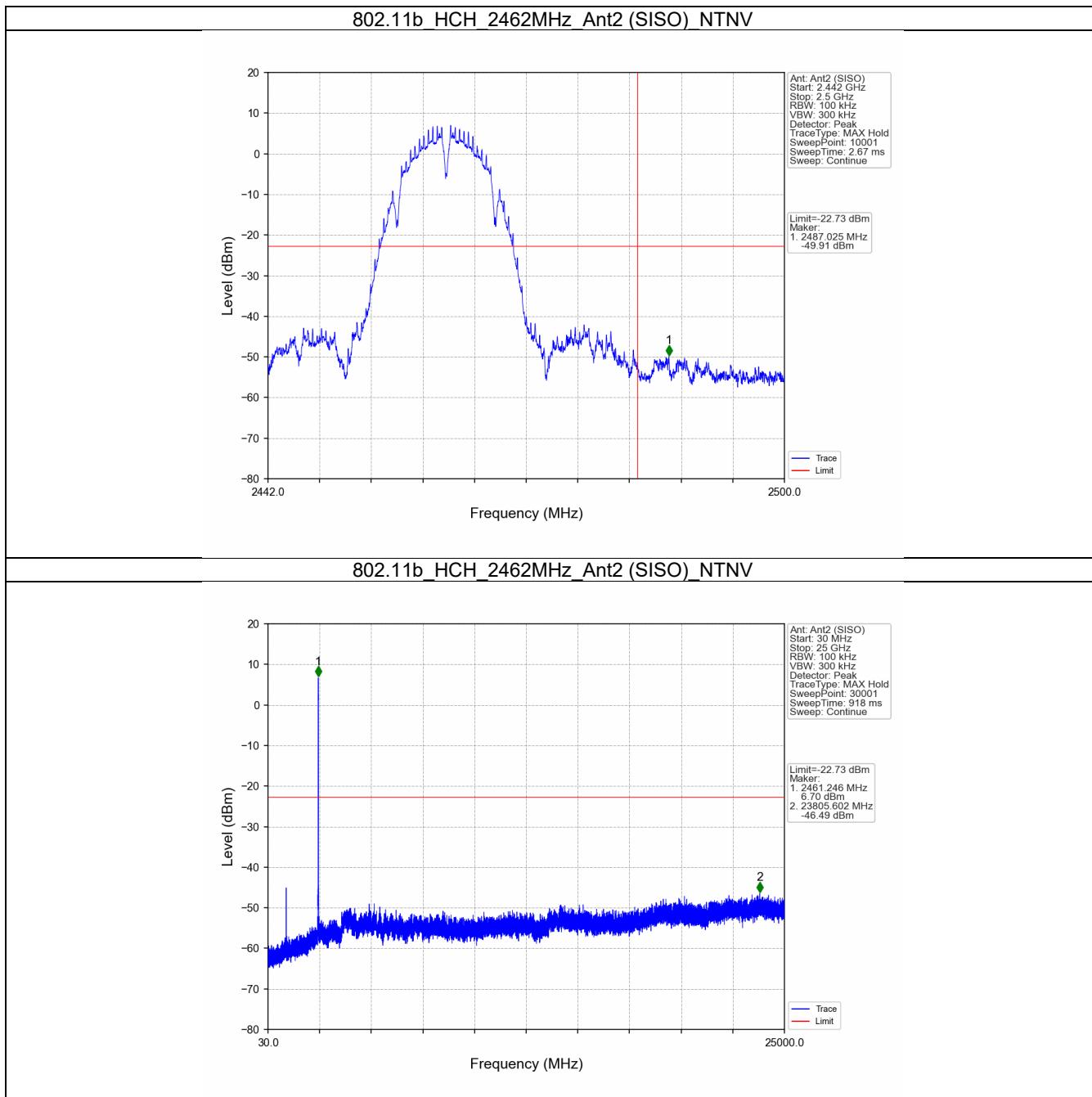


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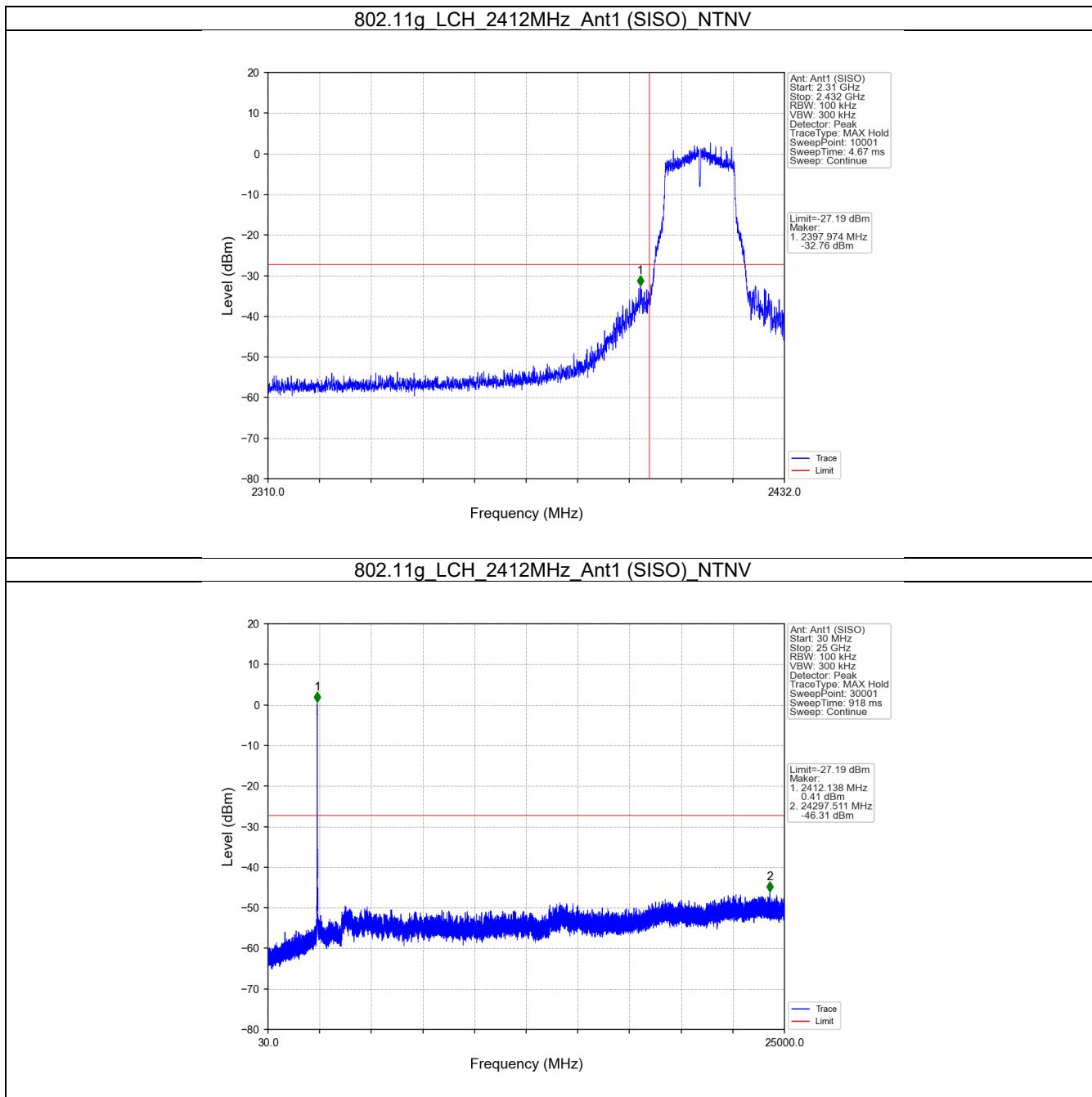
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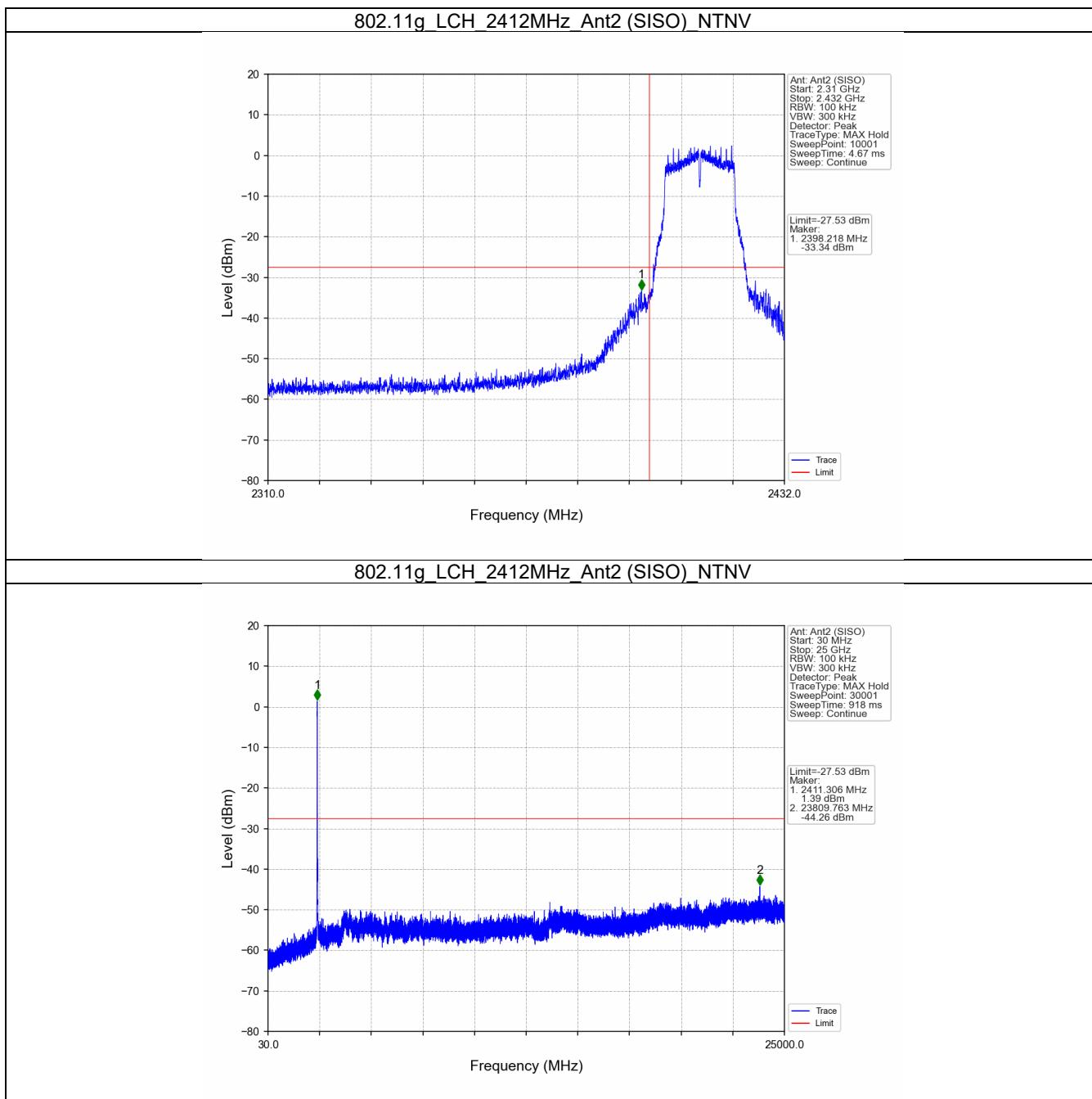
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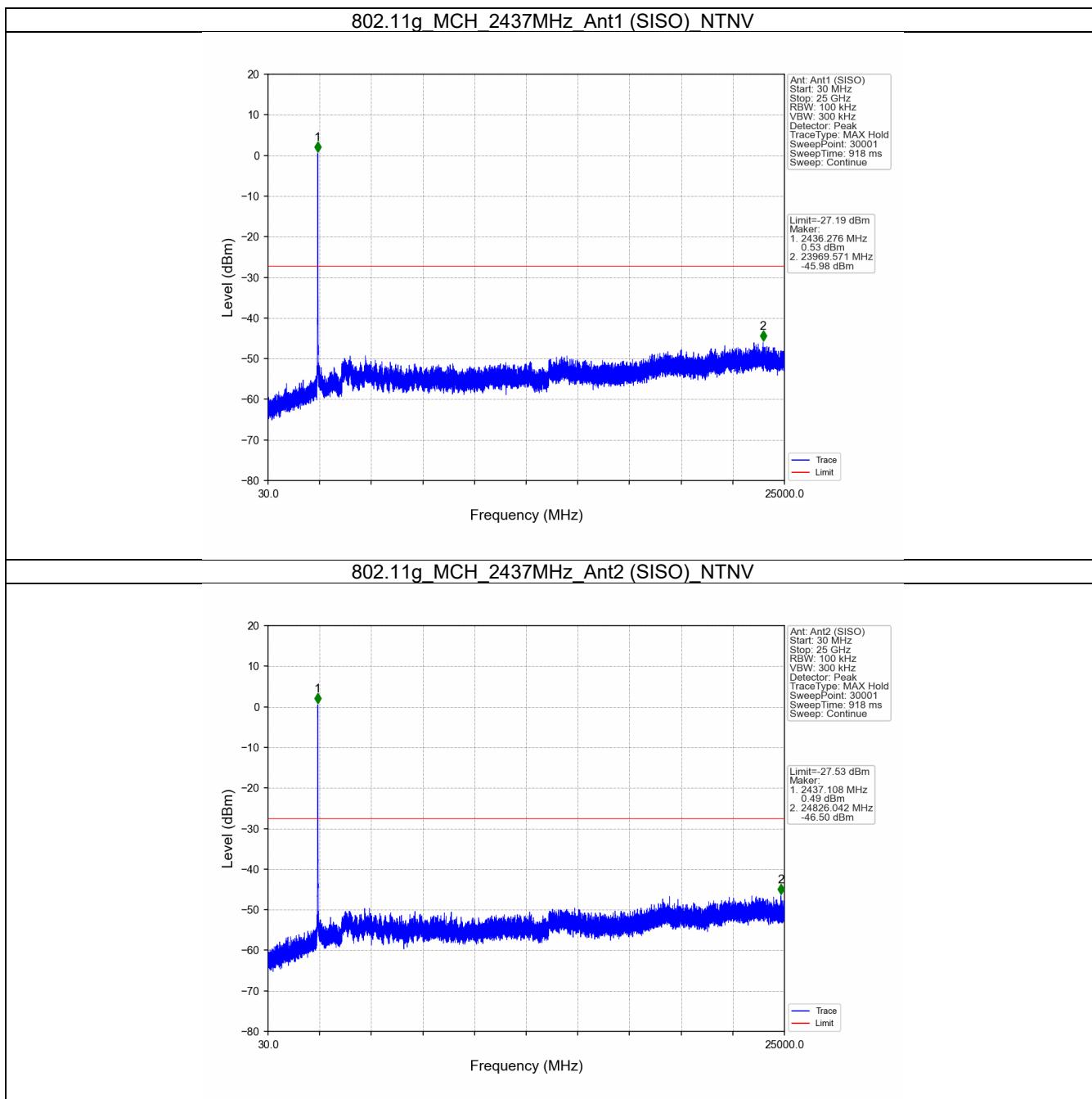
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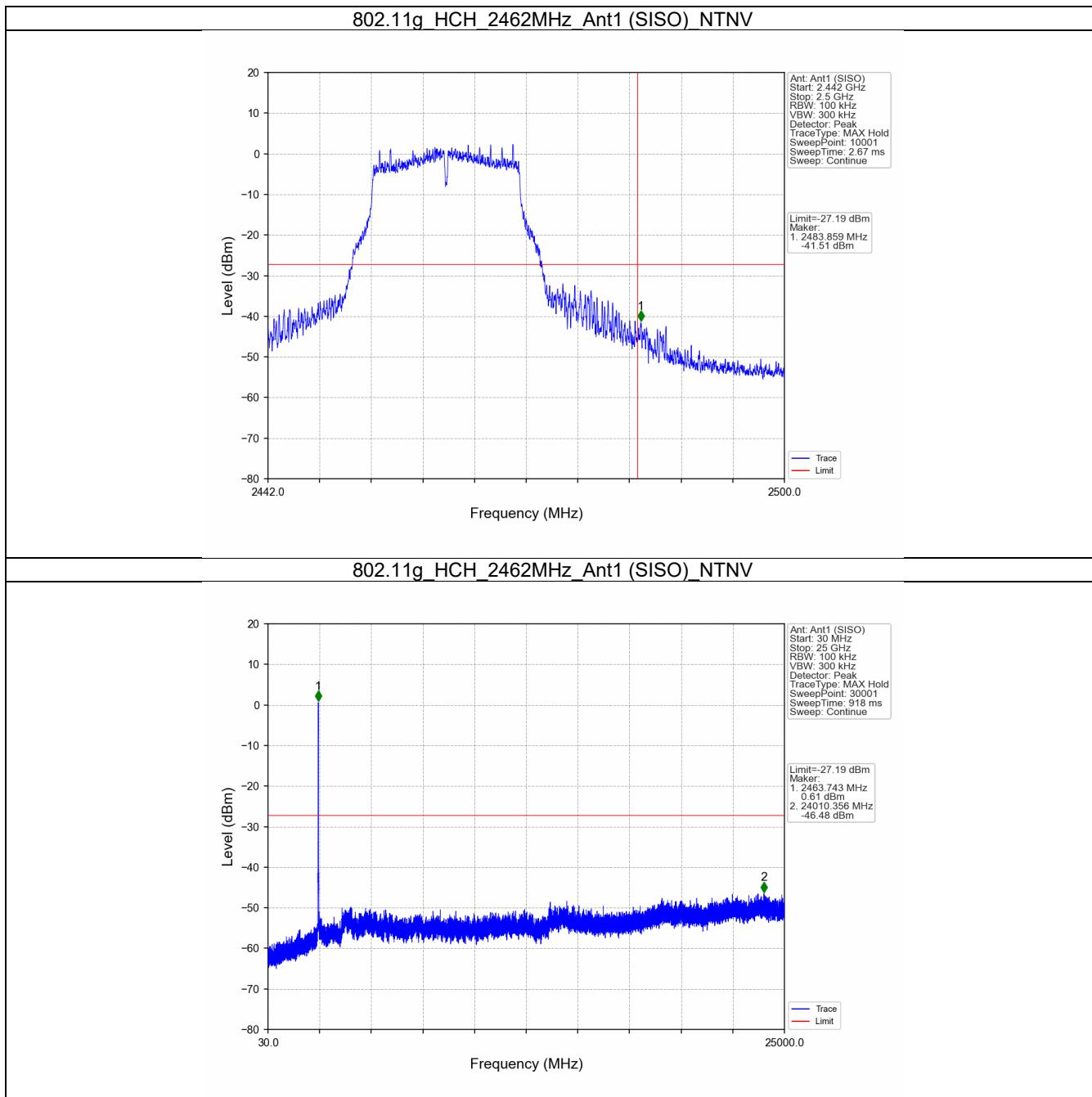
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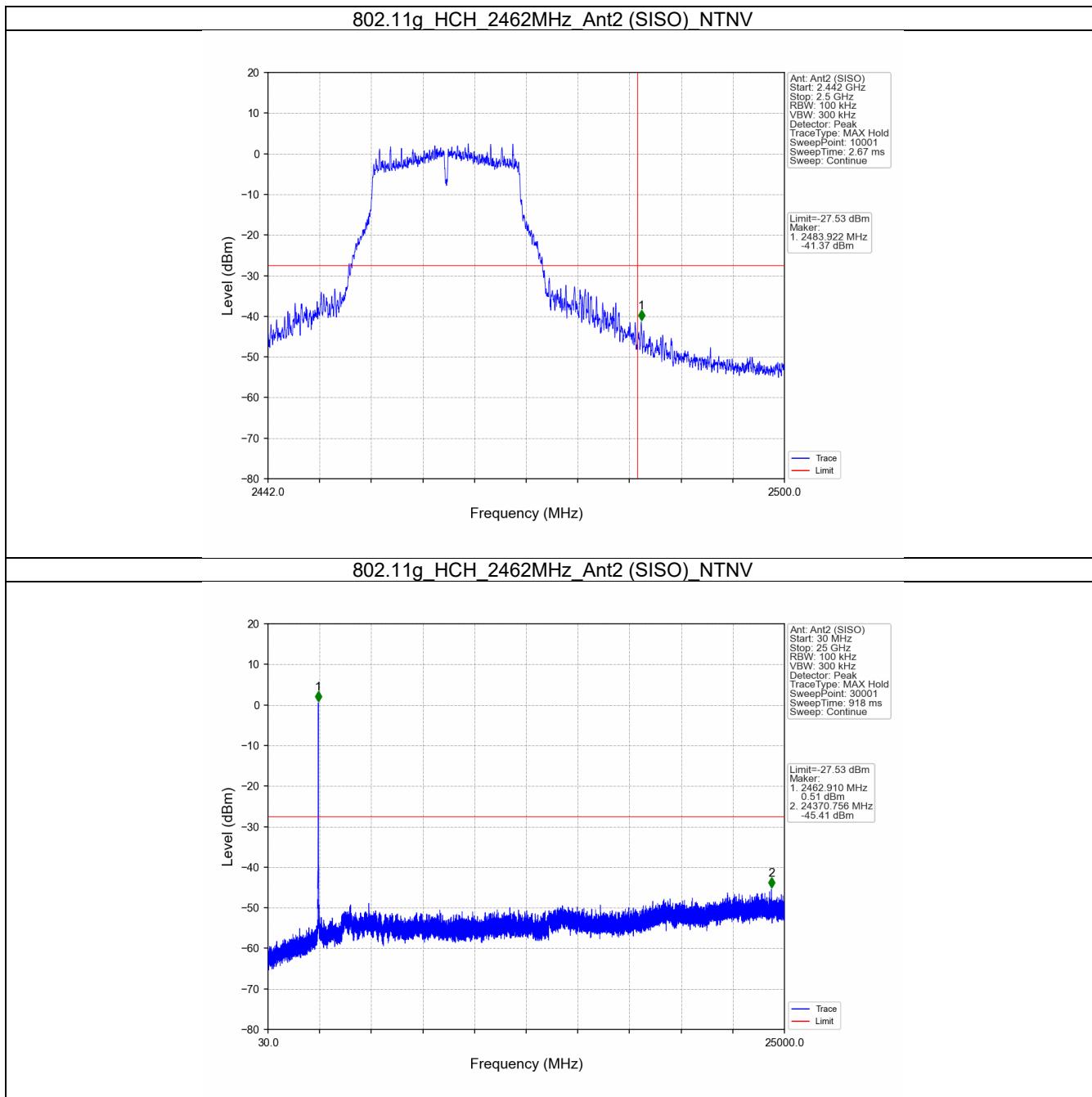
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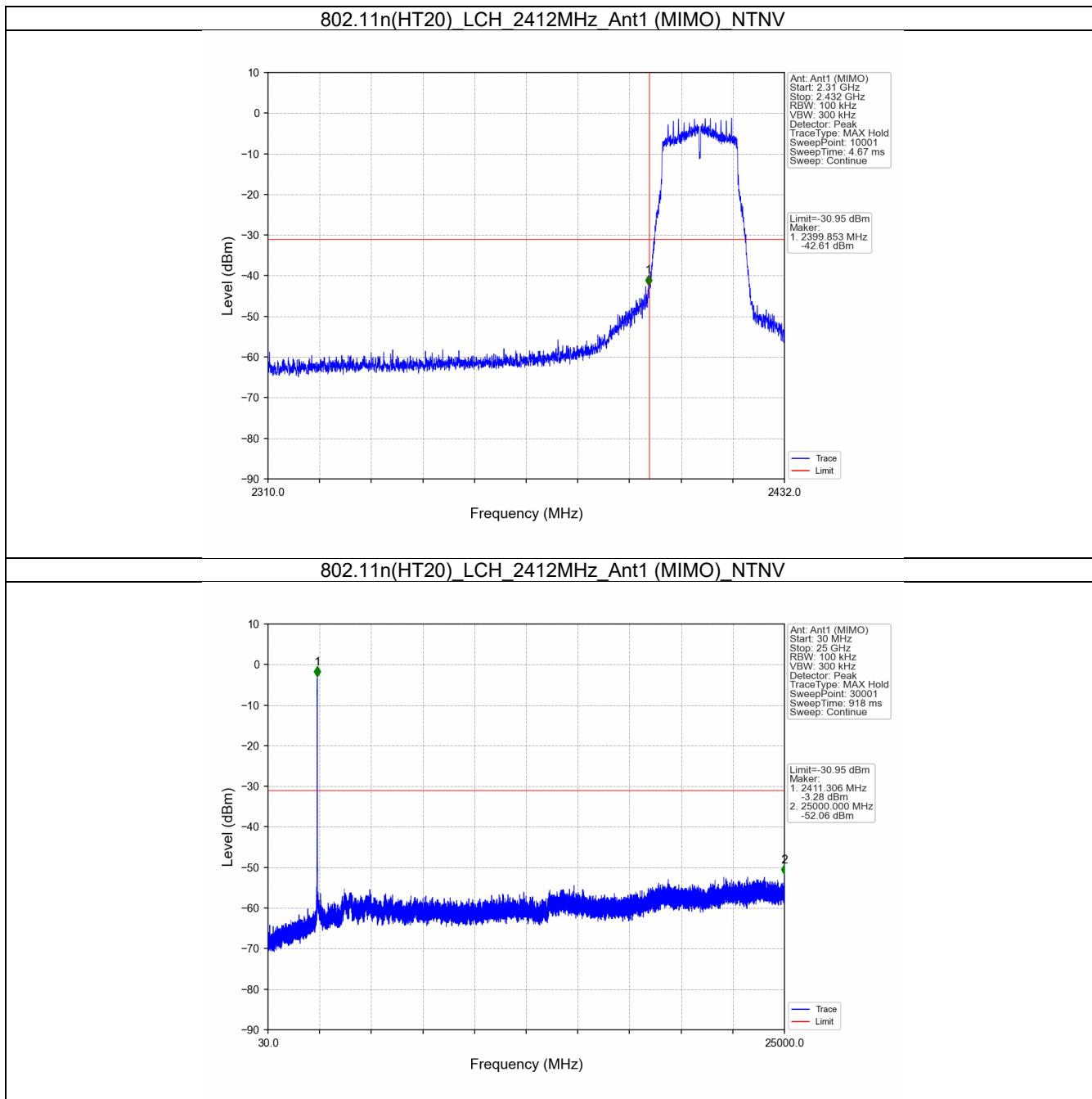
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t(86-21)61915666 f(86-21)61915678 e sgs.china@sgs.com



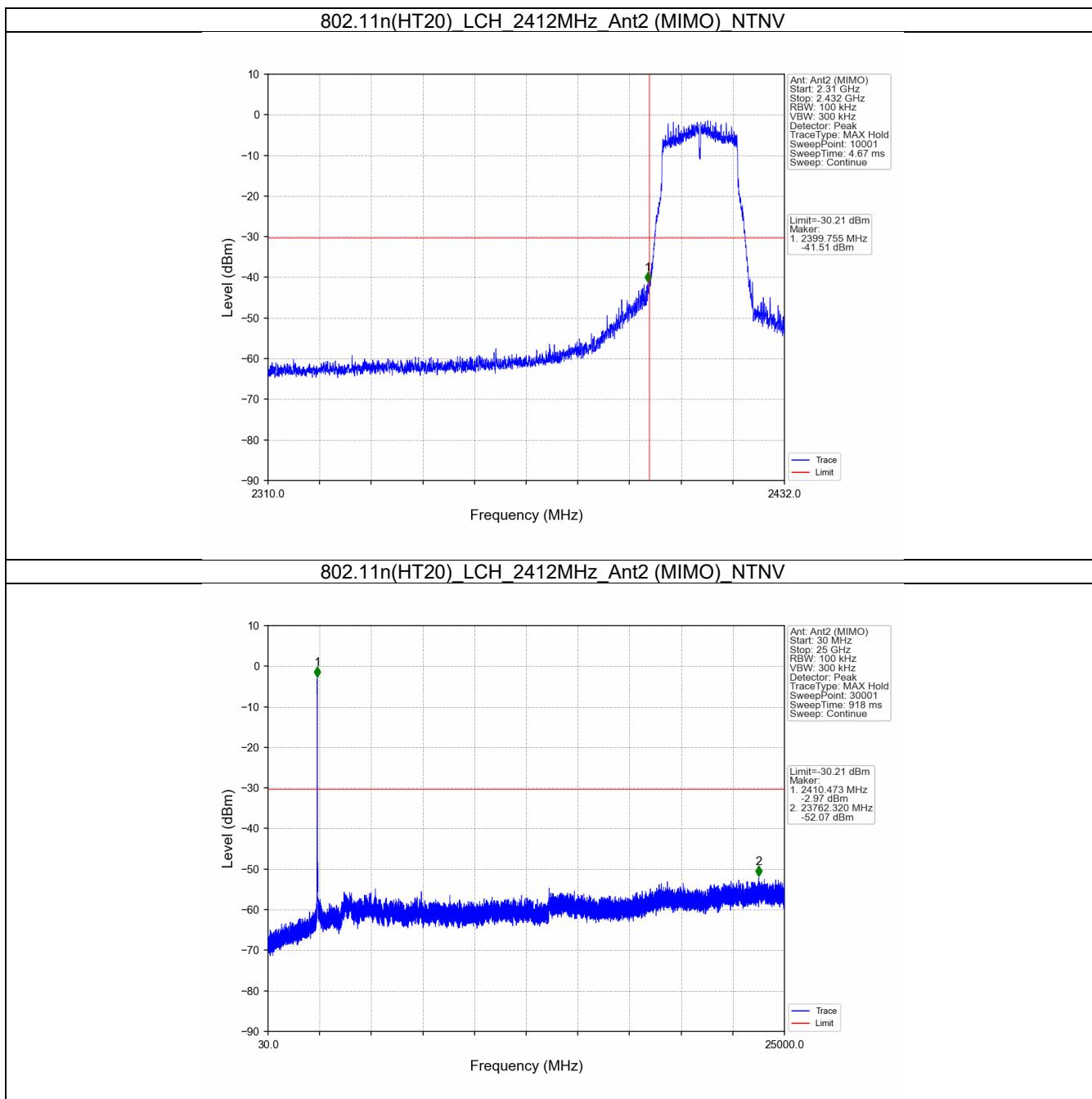
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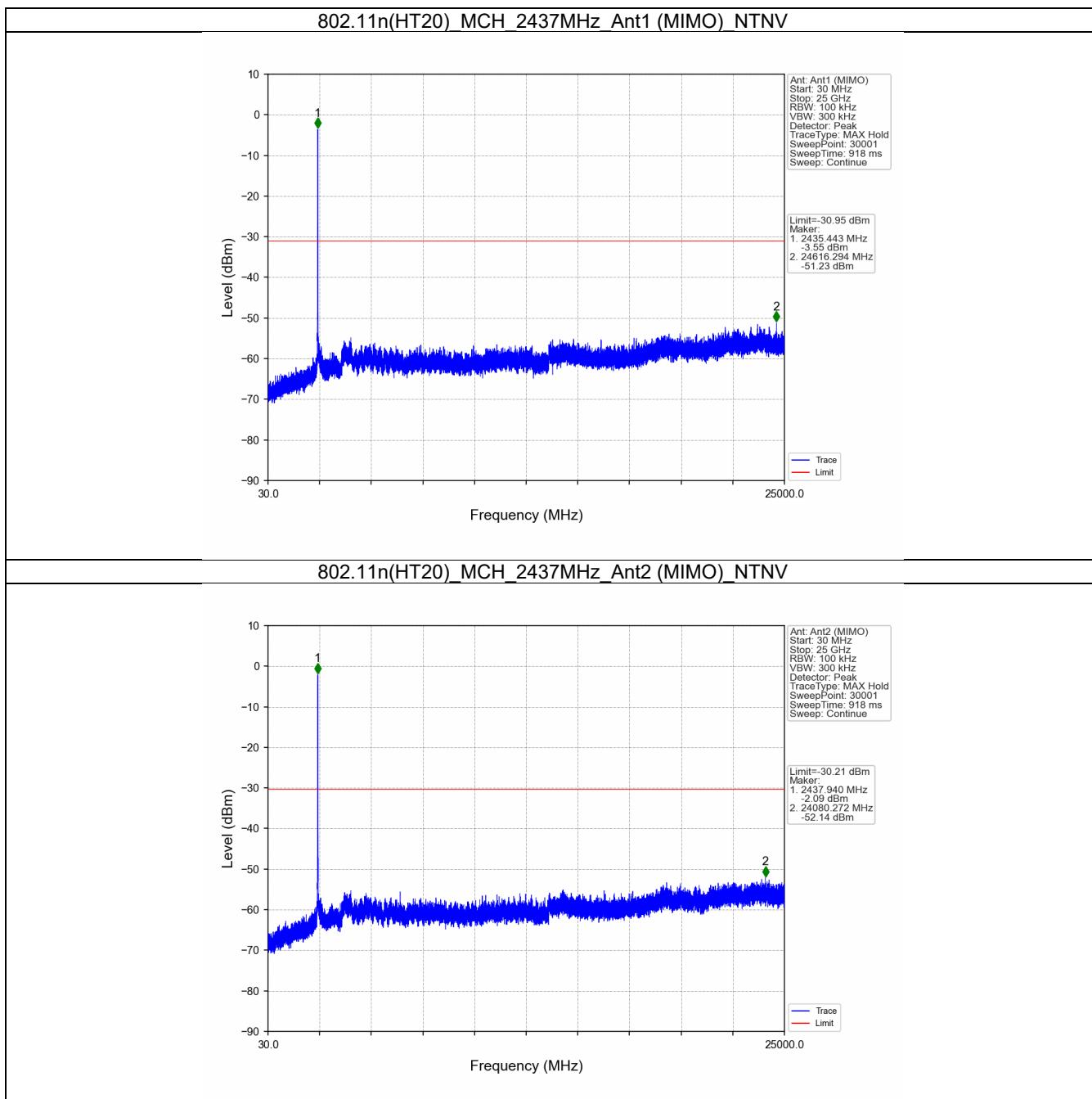
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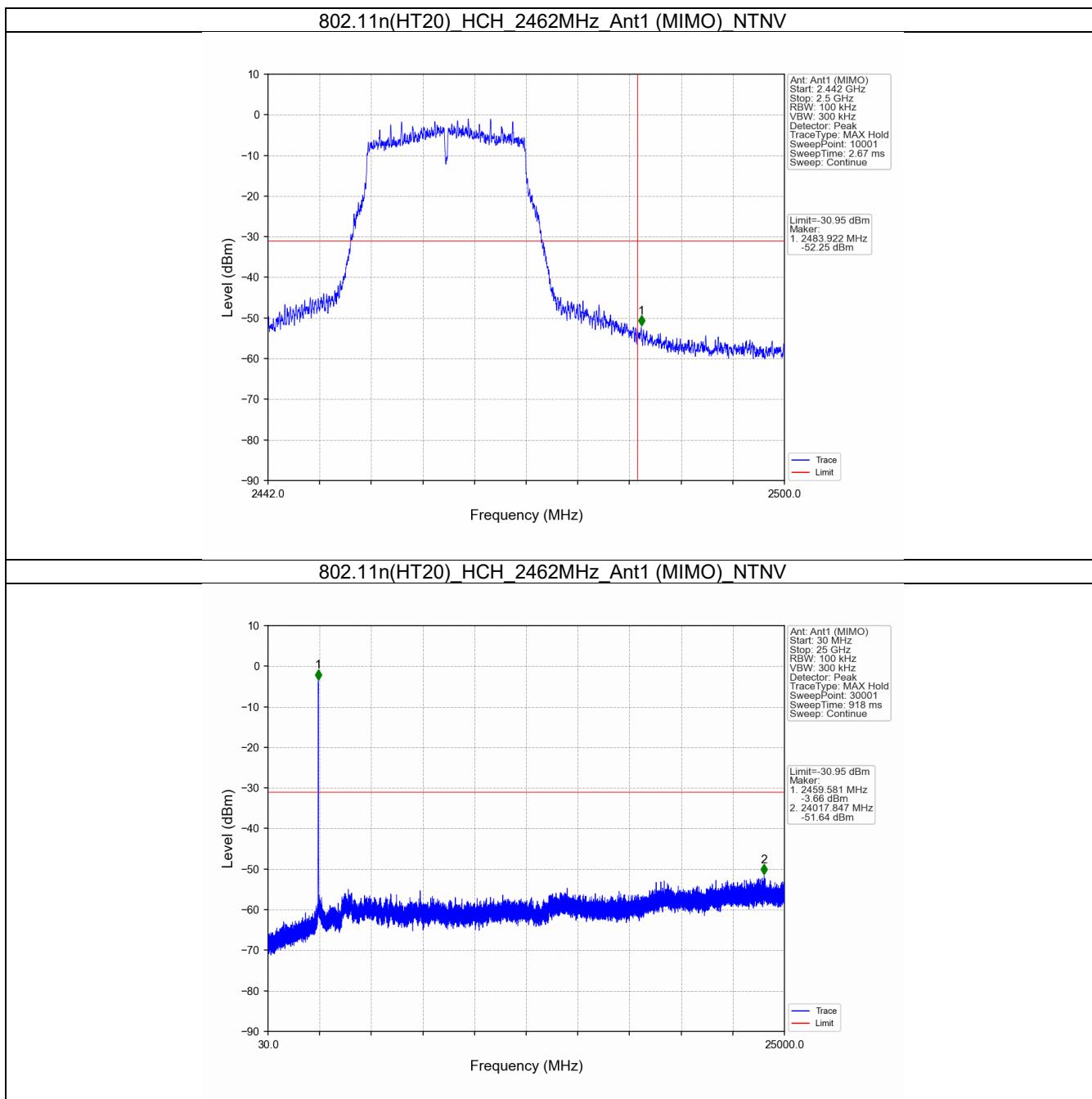
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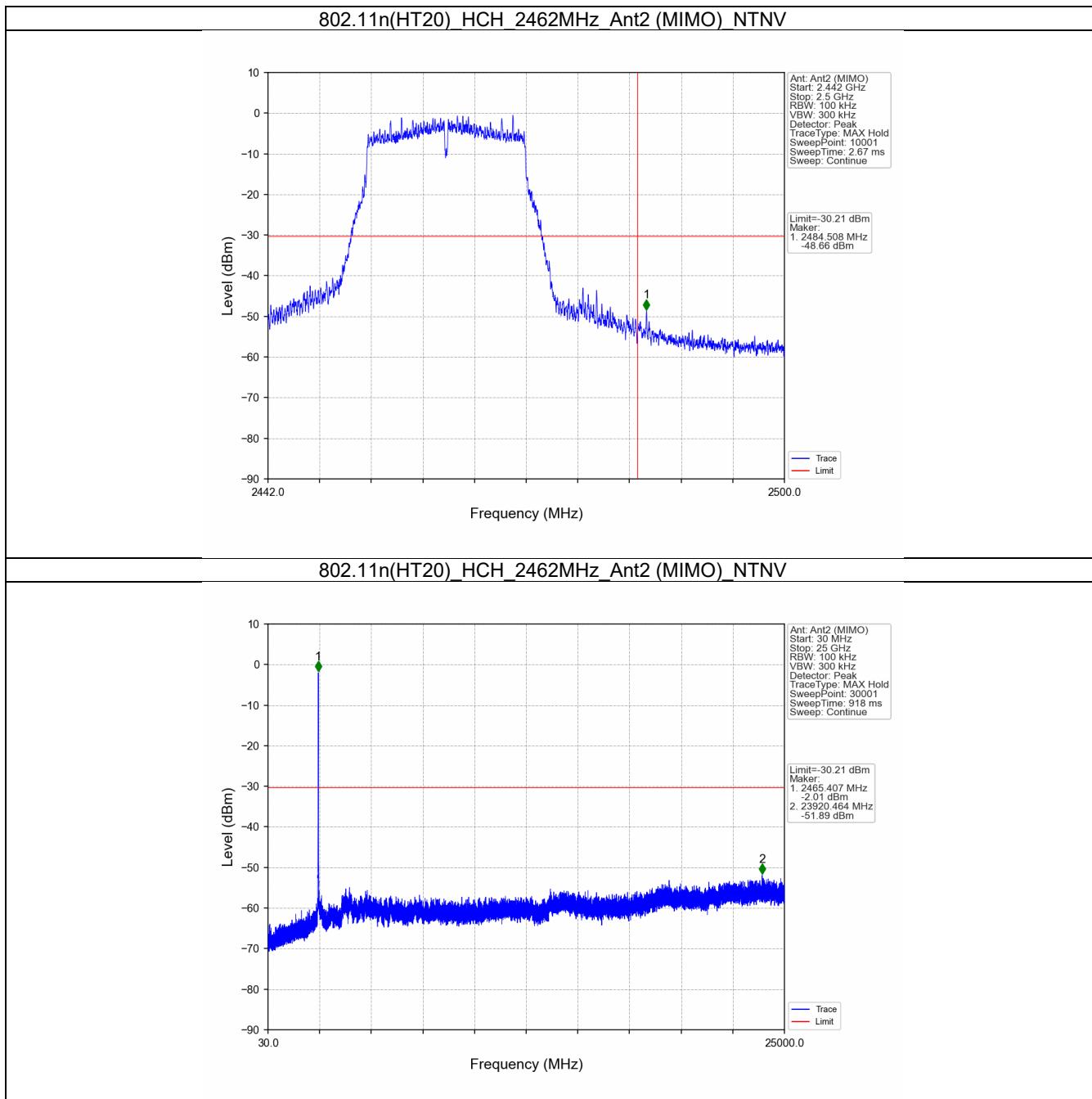


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