

Appendix A for SHCR211000048101

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	8.416	8.580	98.09	0.08	1.35
		2437	8.414	8.587	97.99	0.09	1.47
		2462	8.413	8.586	97.99	0.09	1.47
802.11g	SISO	2412	1.396	1.565	89.20	0.50	7.17
		2437	1.397	1.558	89.67	0.47	7.32
		2462	1.396	1.530	91.24	0.40	5.74
802.11n (HT20)	MIMO	2412	1.308	1.478	88.50	0.53	7.59
		2437	1.308	1.486	88.02	0.55	8.81
		2462	1.308	1.477	88.56	0.53	6.97

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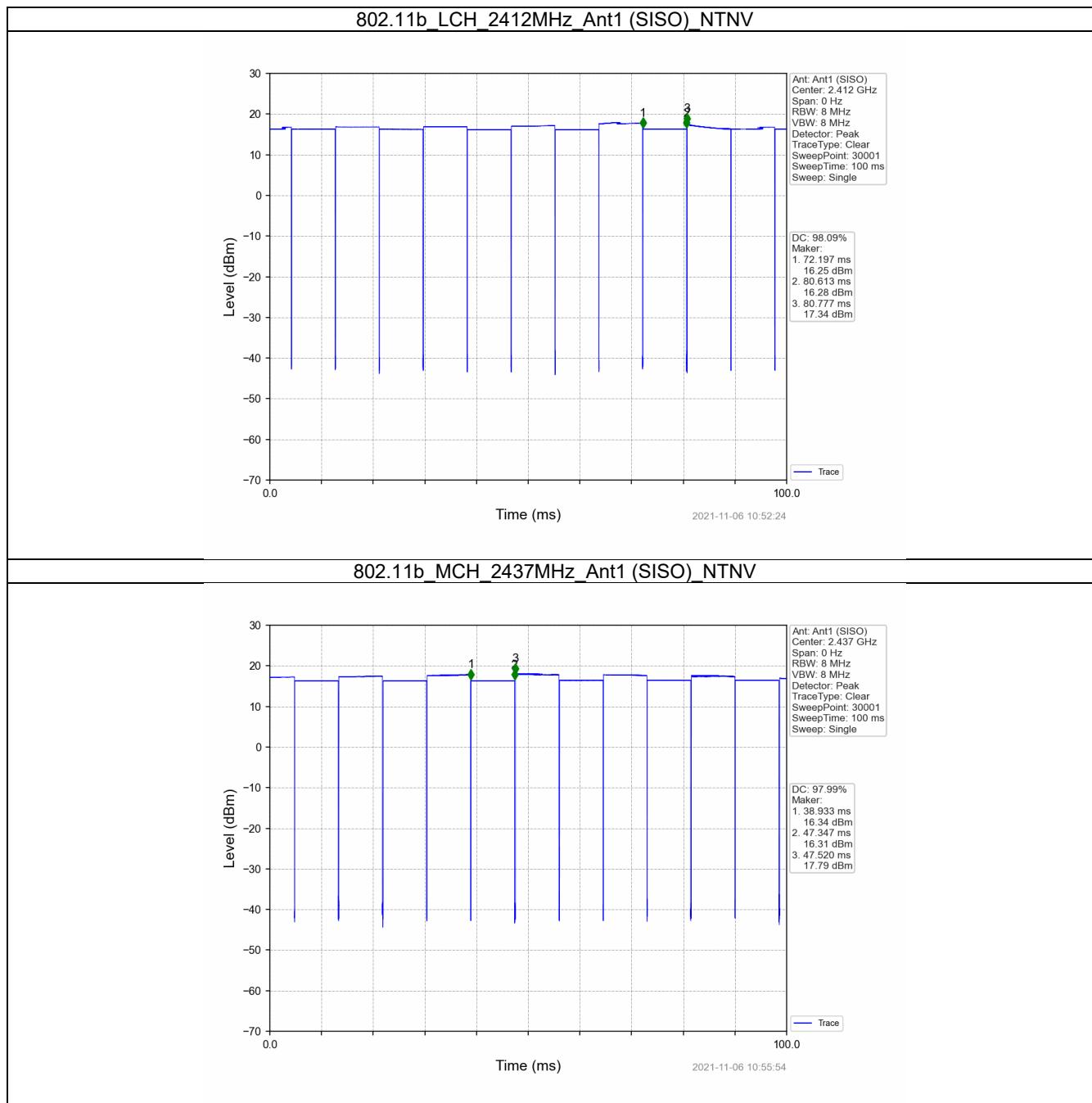
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1.1.2 Test Graph



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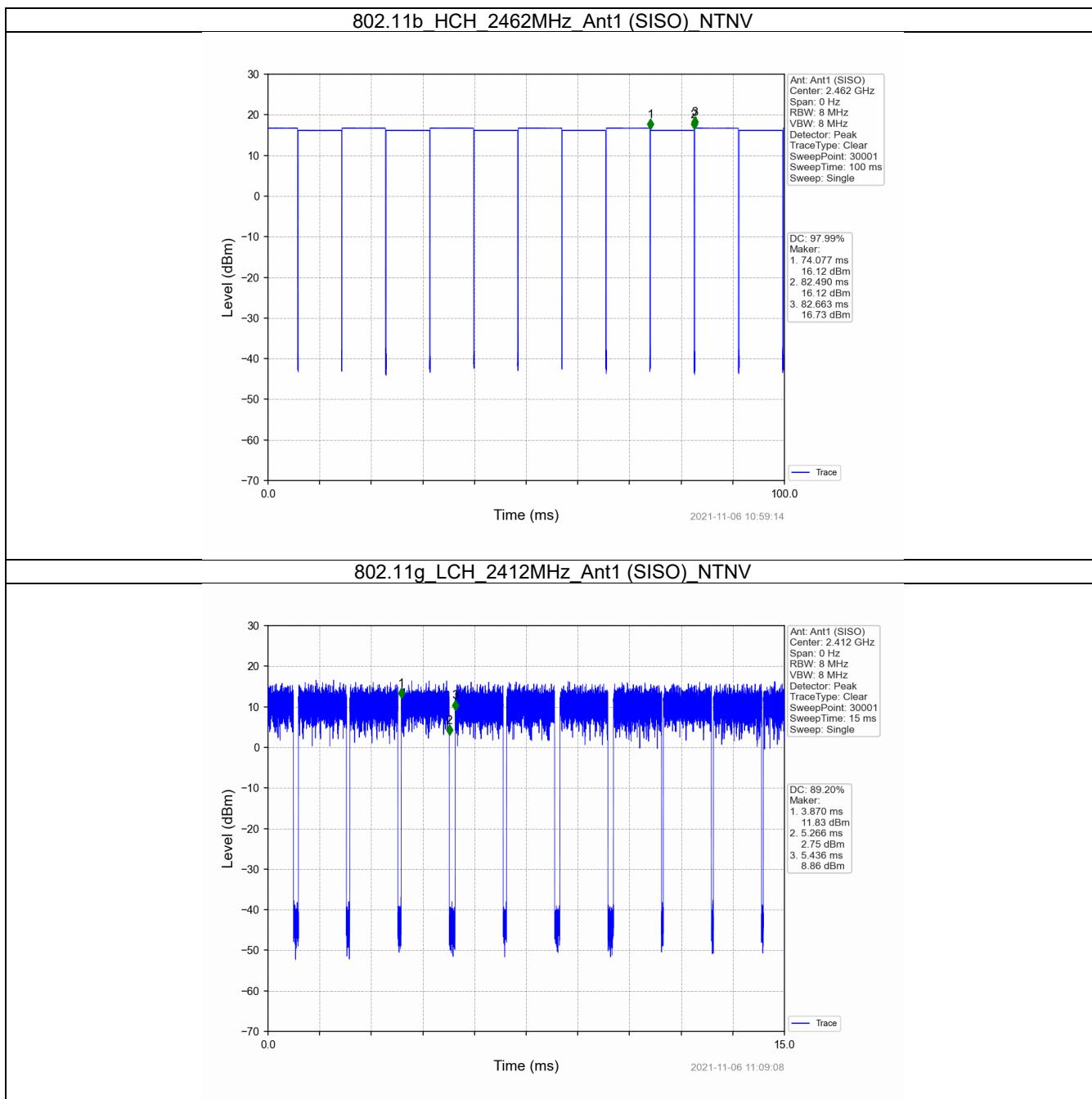
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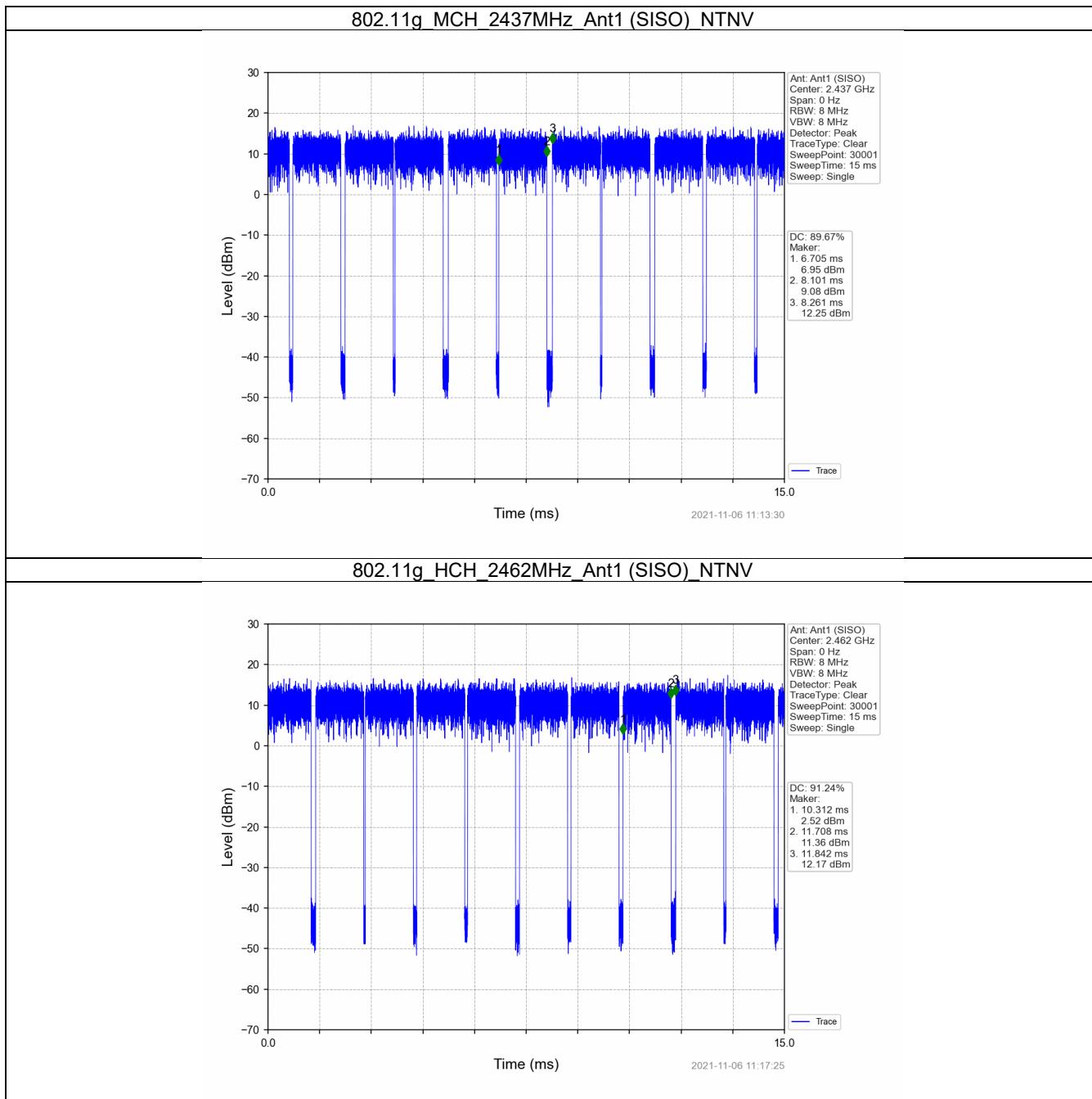
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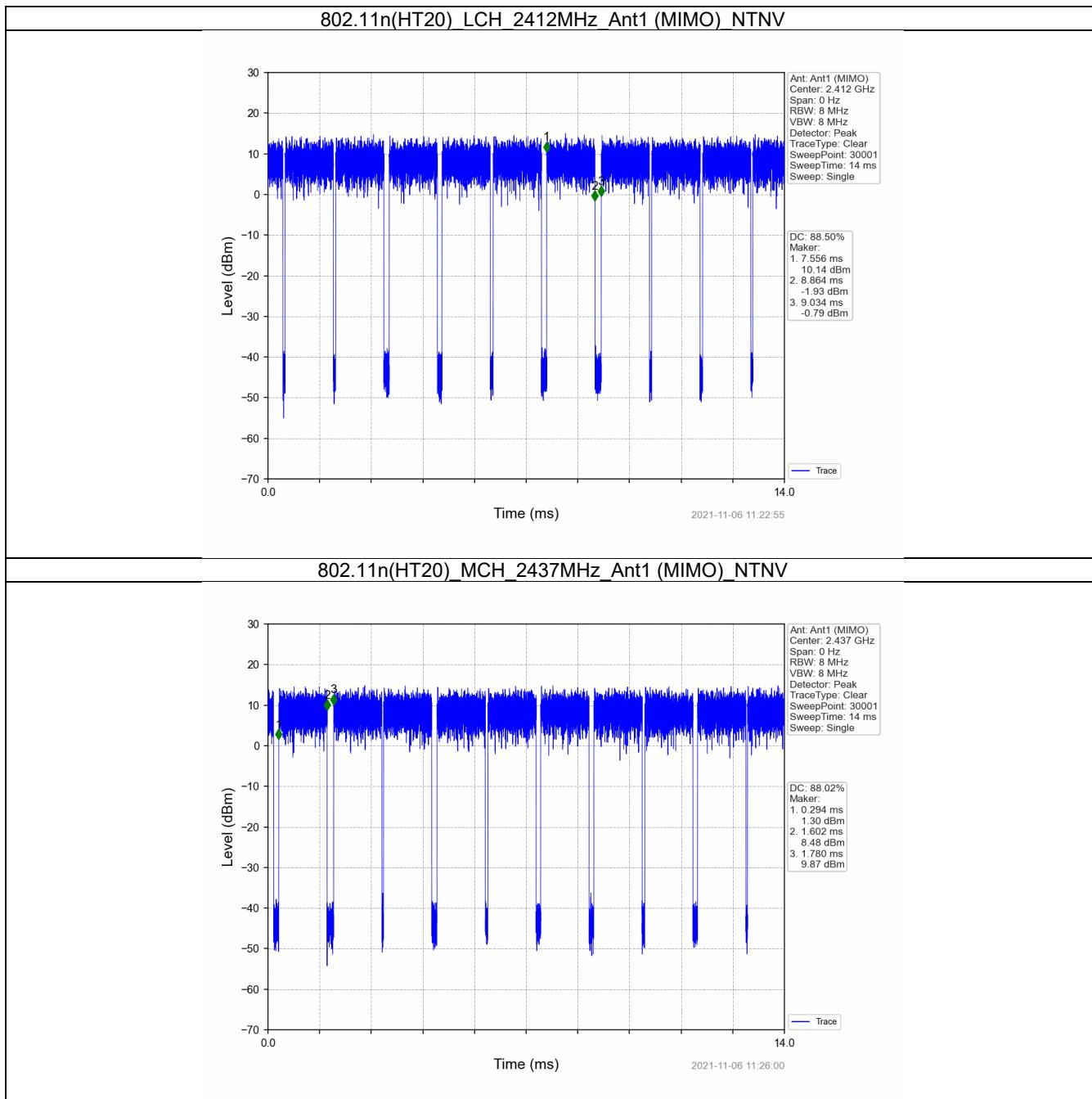
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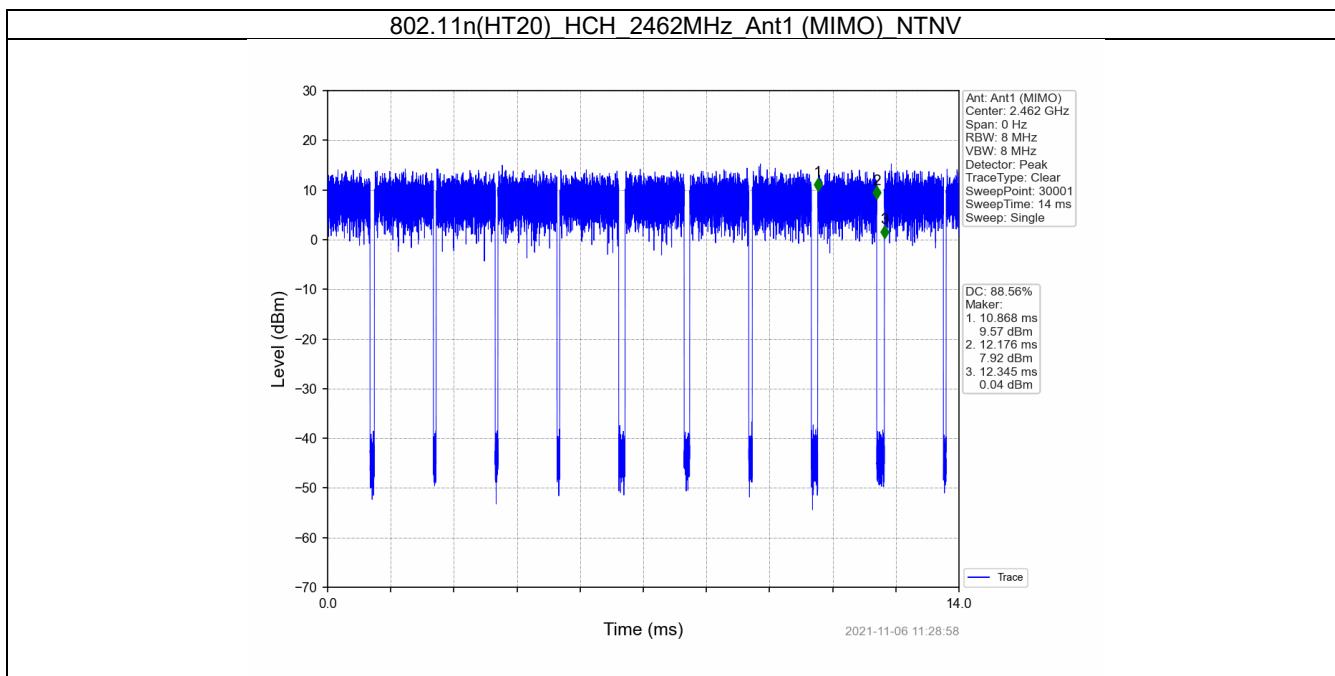
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2. Bandwidth

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	14.214		Pass
			2	14.103		Pass
		2437	1	14.181		Pass
			2	14.121		Pass
		2462	1	14.200		Pass
			2	14.146		Pass
		2412	1	17.451		Pass
			2	16.800		Pass
802.11g	SISO	2437	1	17.493		Pass
			2	16.796		Pass
		2462	1	17.494		Pass
			2	16.792		Pass
		2412	1	17.931		Pass
			2	17.646		Pass
		2437	1	17.974		Pass
			2	17.671		Pass
802.11n (HT20)	MIMO	2462	1	17.937		Pass
			2	17.644		Pass

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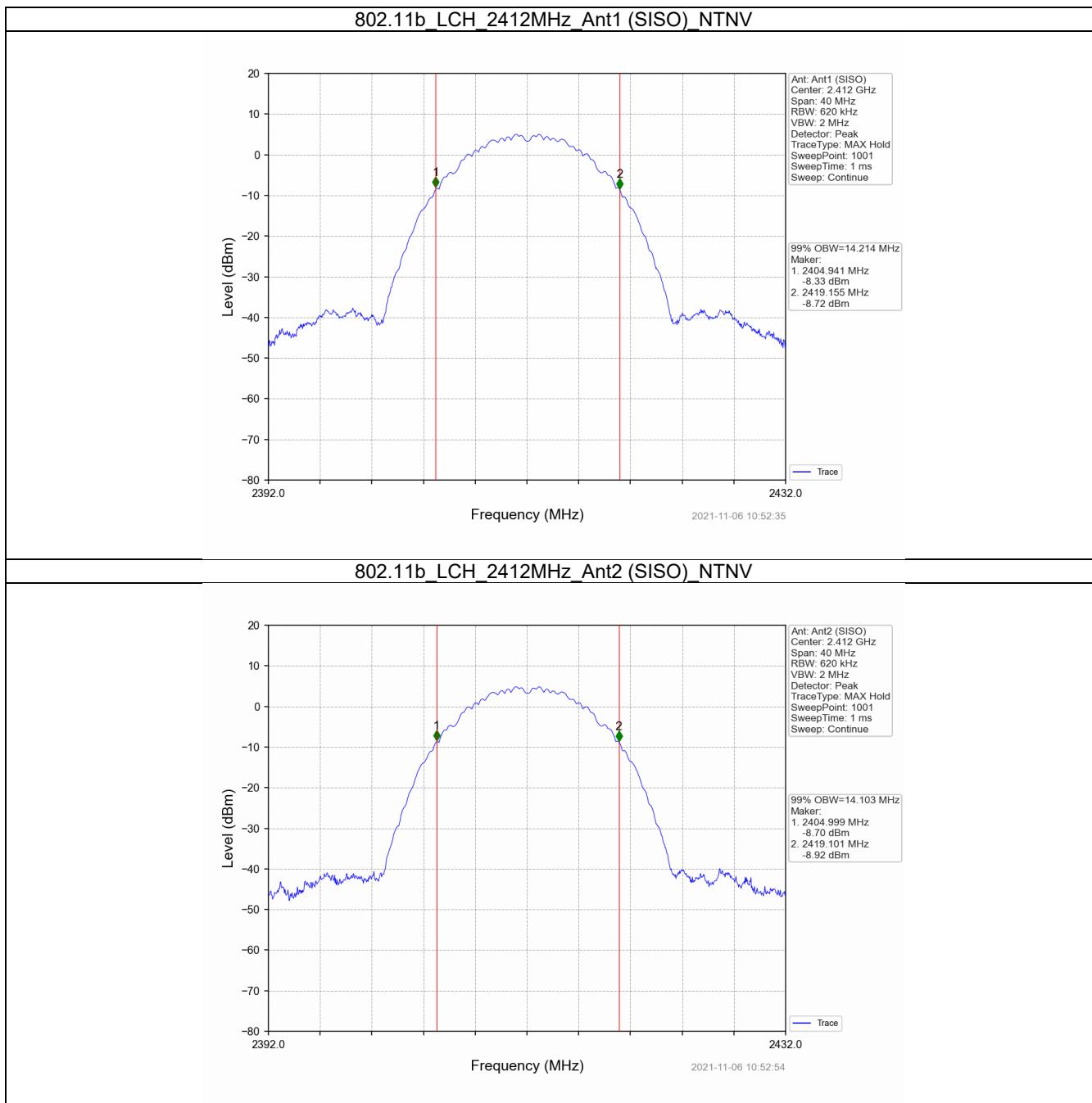
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2.1.2 Test Graph



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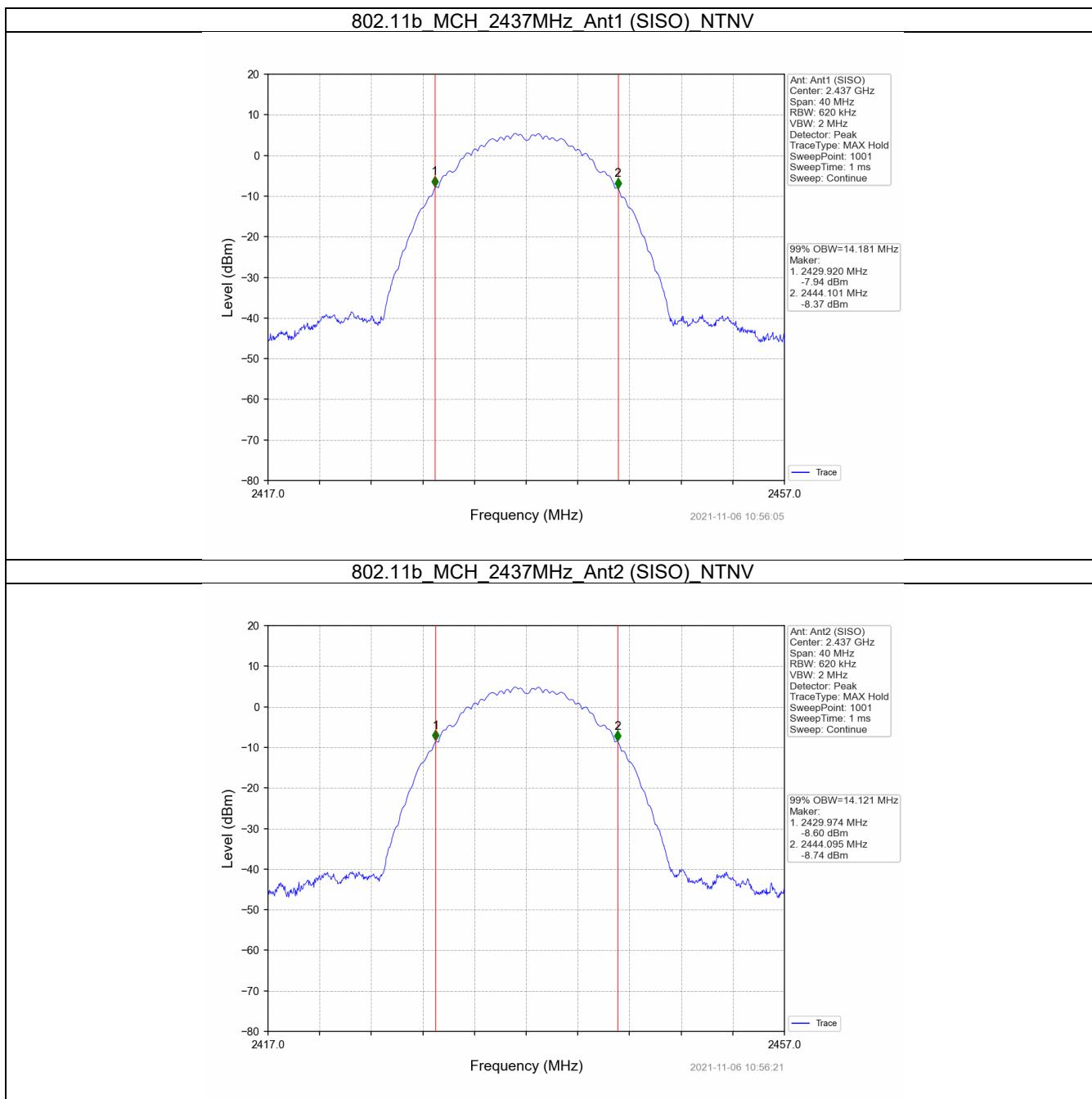
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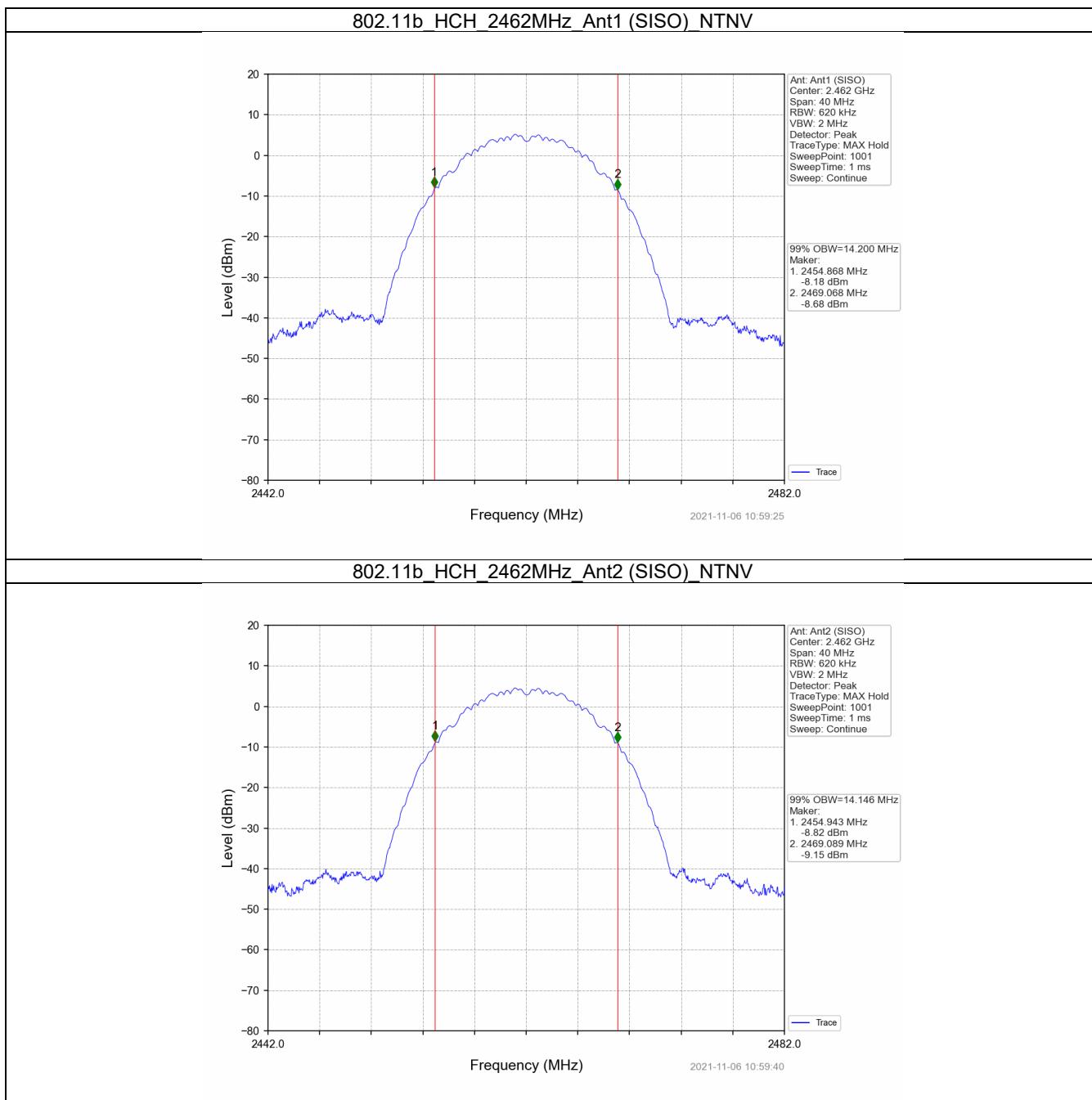
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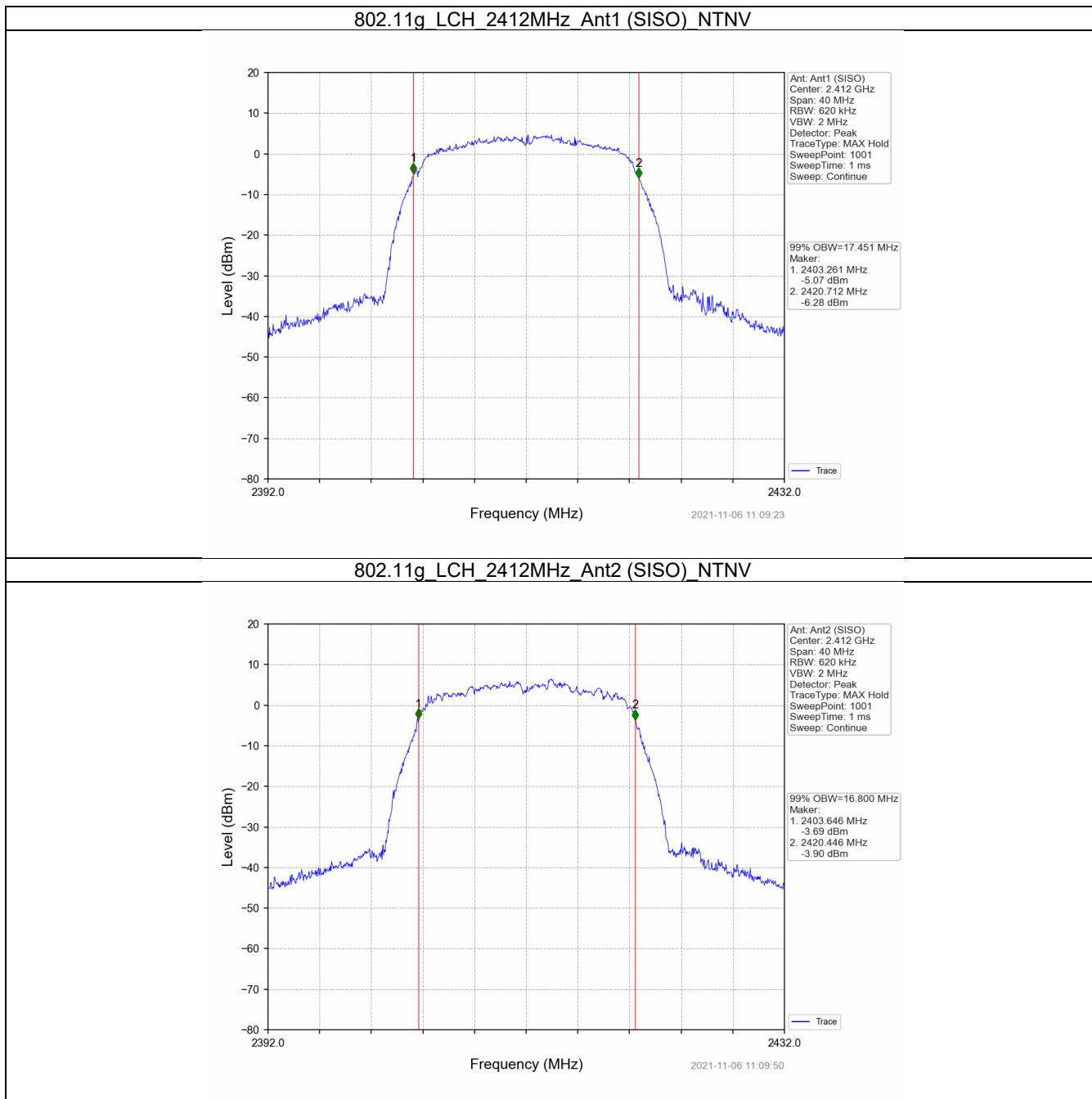
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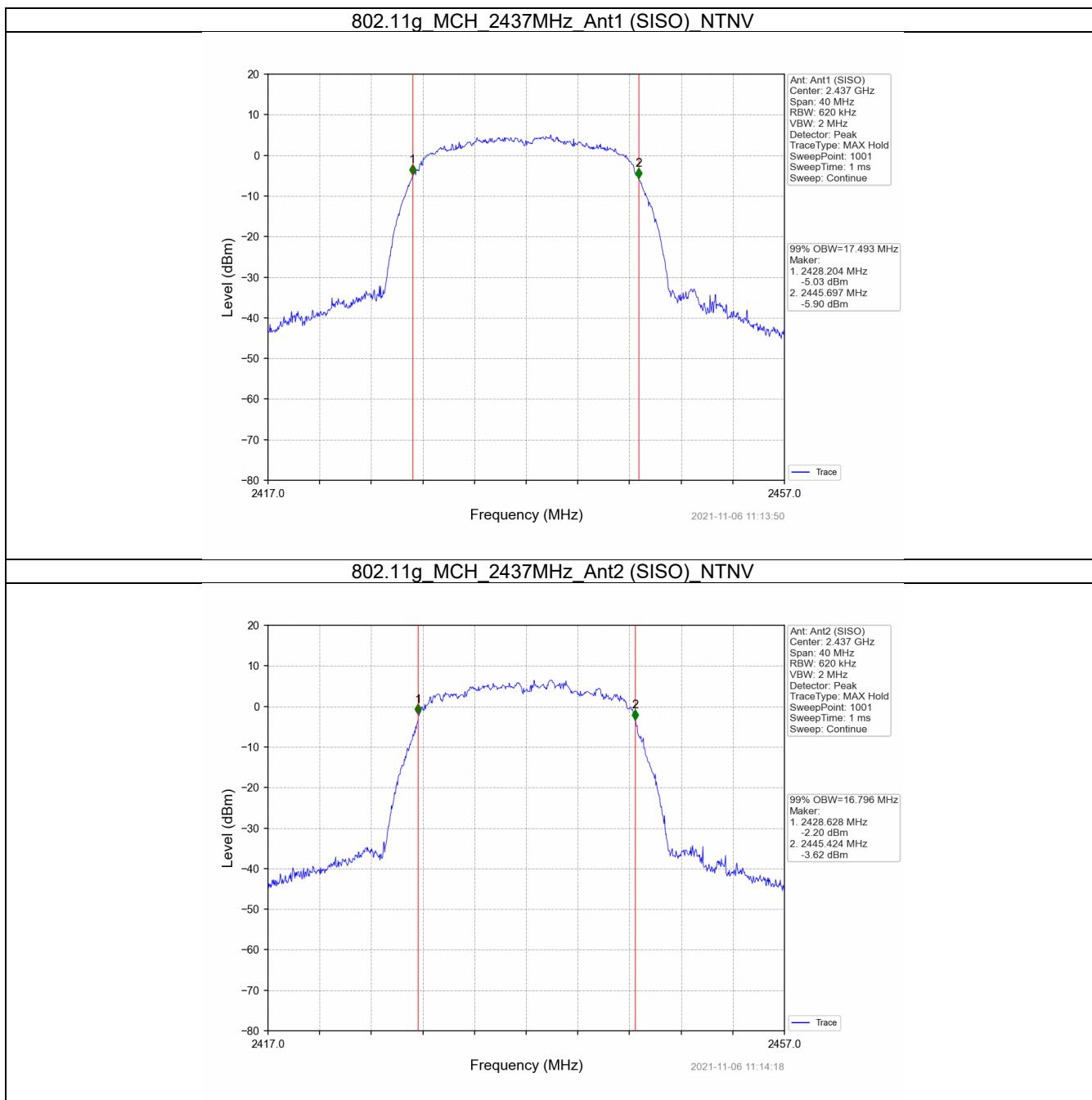
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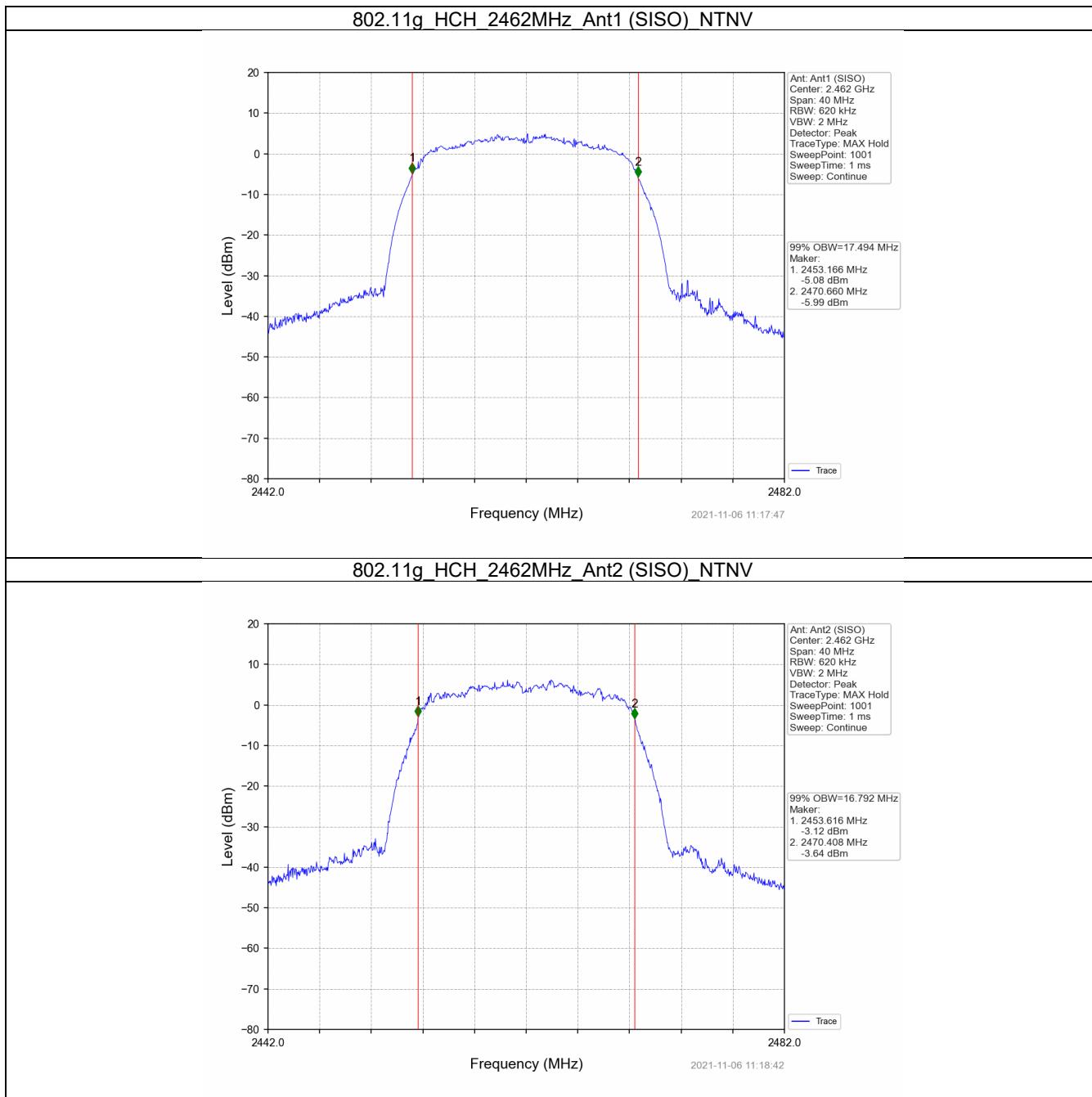
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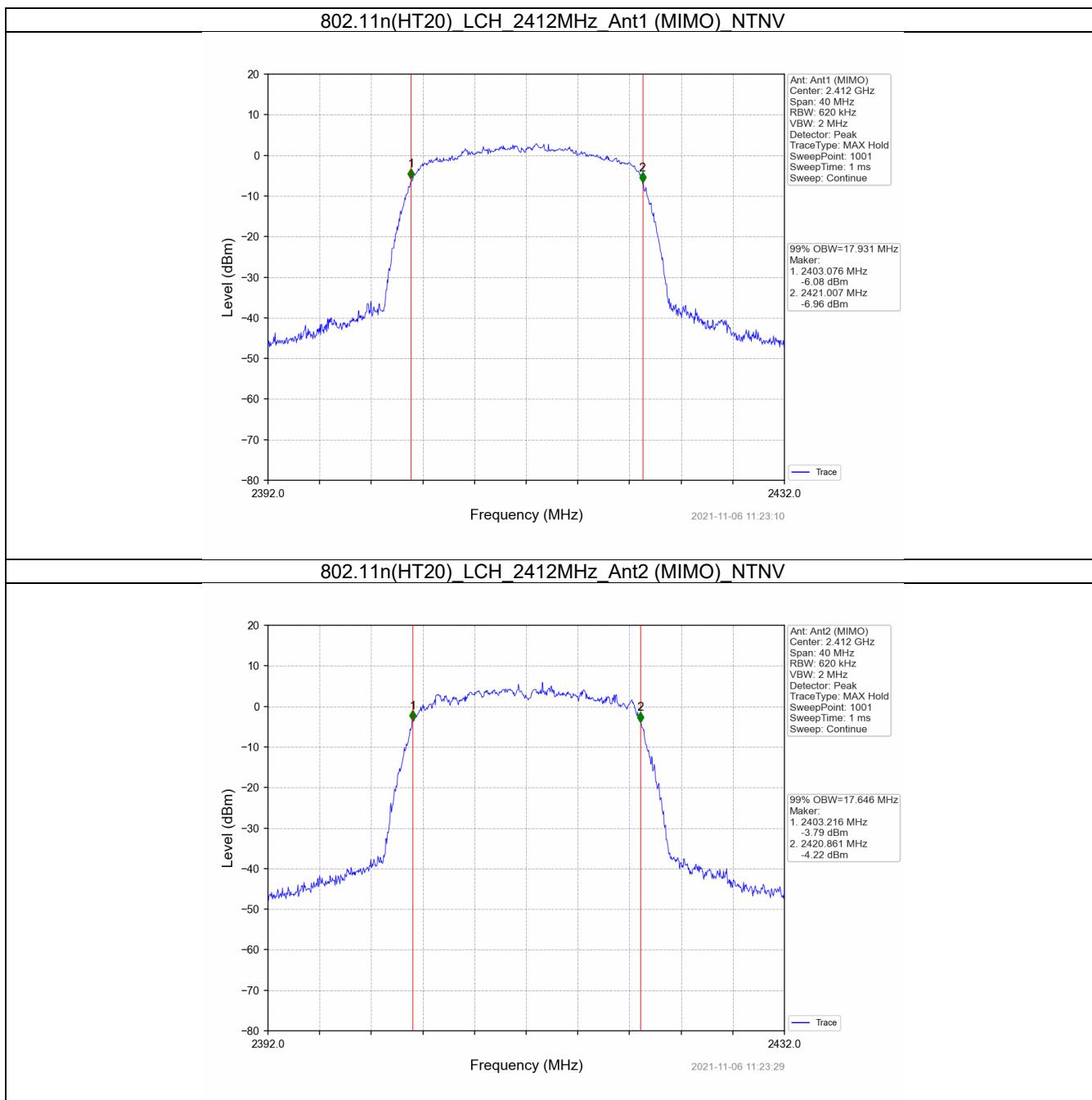
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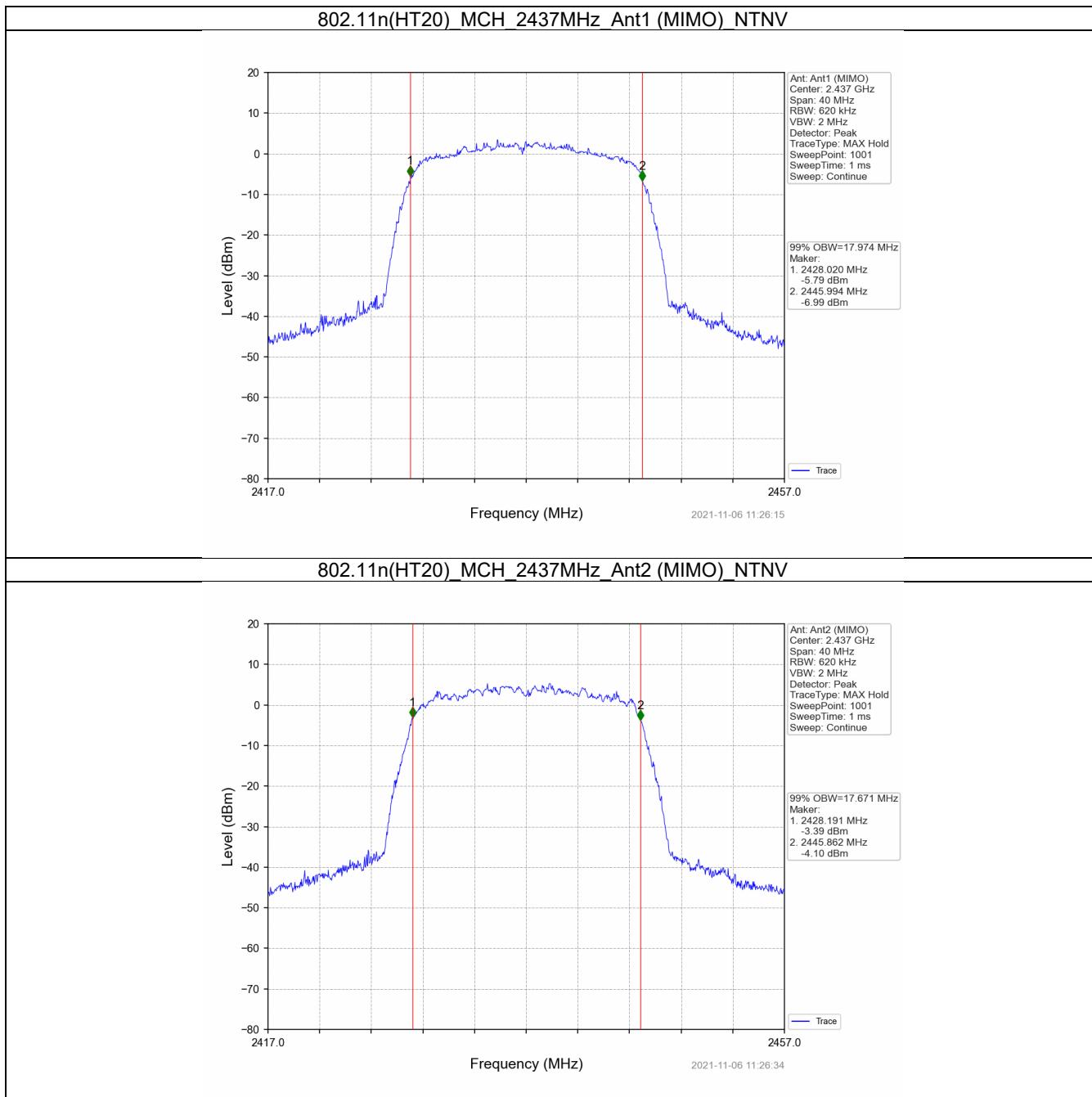
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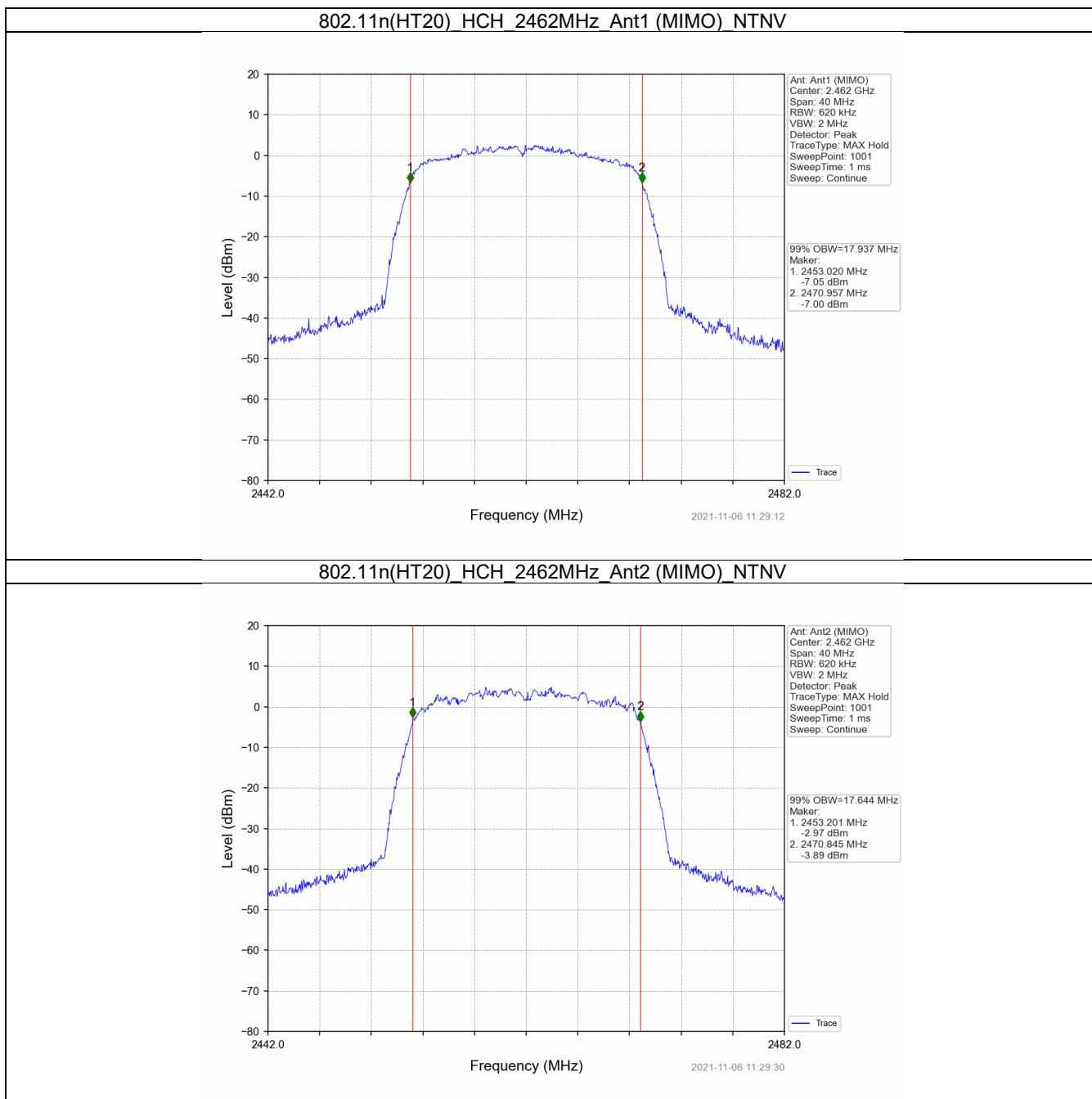
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.047	≥ 0.5	Pass
			2	10.029	≥ 0.5	Pass
		2437	1	10.051	≥ 0.5	Pass
			2	10.021	≥ 0.5	Pass
		2462	1	9.091	≥ 0.5	Pass
			2	10.021	≥ 0.5	Pass
	802.11g	2412	1	15.124	≥ 0.5	Pass
			2	15.154	≥ 0.5	Pass
		2437	1	15.127	≥ 0.5	Pass
			2	15.144	≥ 0.5	Pass
		2462	1	15.136	≥ 0.5	Pass
			2	15.155	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	1	15.124	≥ 0.5	Pass
			2	15.140	≥ 0.5	Pass
		2437	1	15.103	≥ 0.5	Pass
			2	15.151	≥ 0.5	Pass
		2462	1	15.129	≥ 0.5	Pass
			2	15.131	≥ 0.5	Pass

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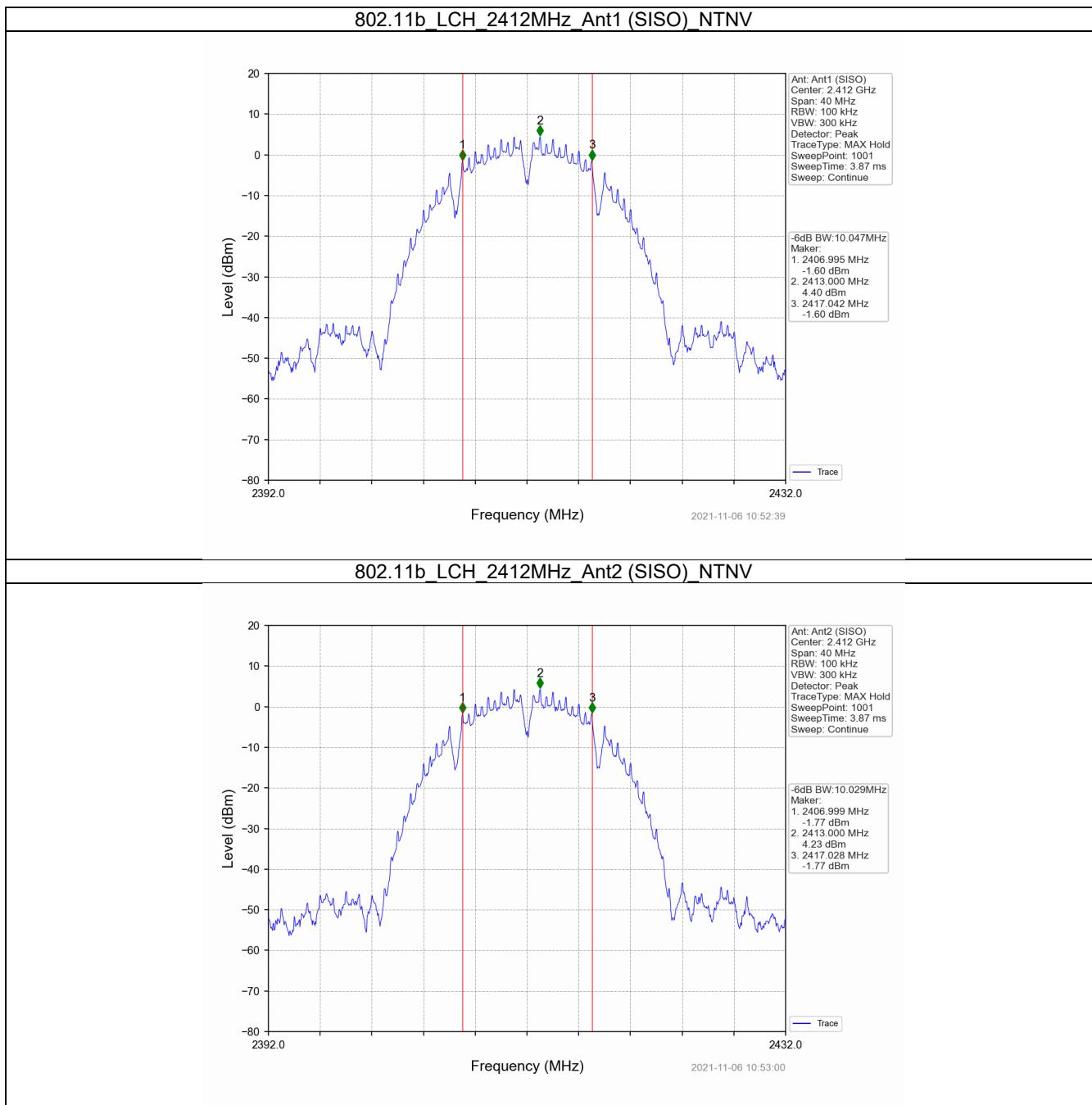
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2.2.2 Test Graph



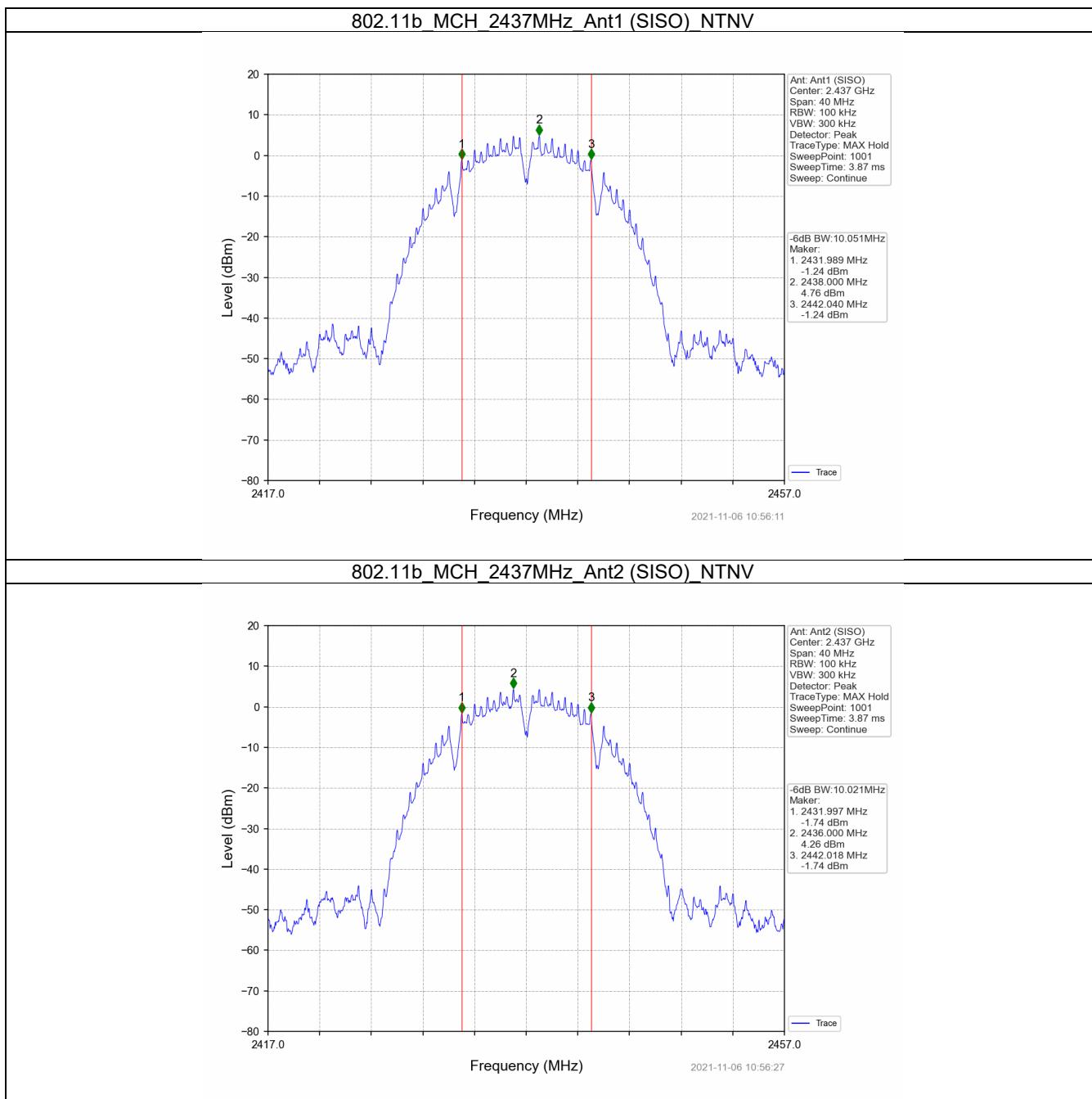
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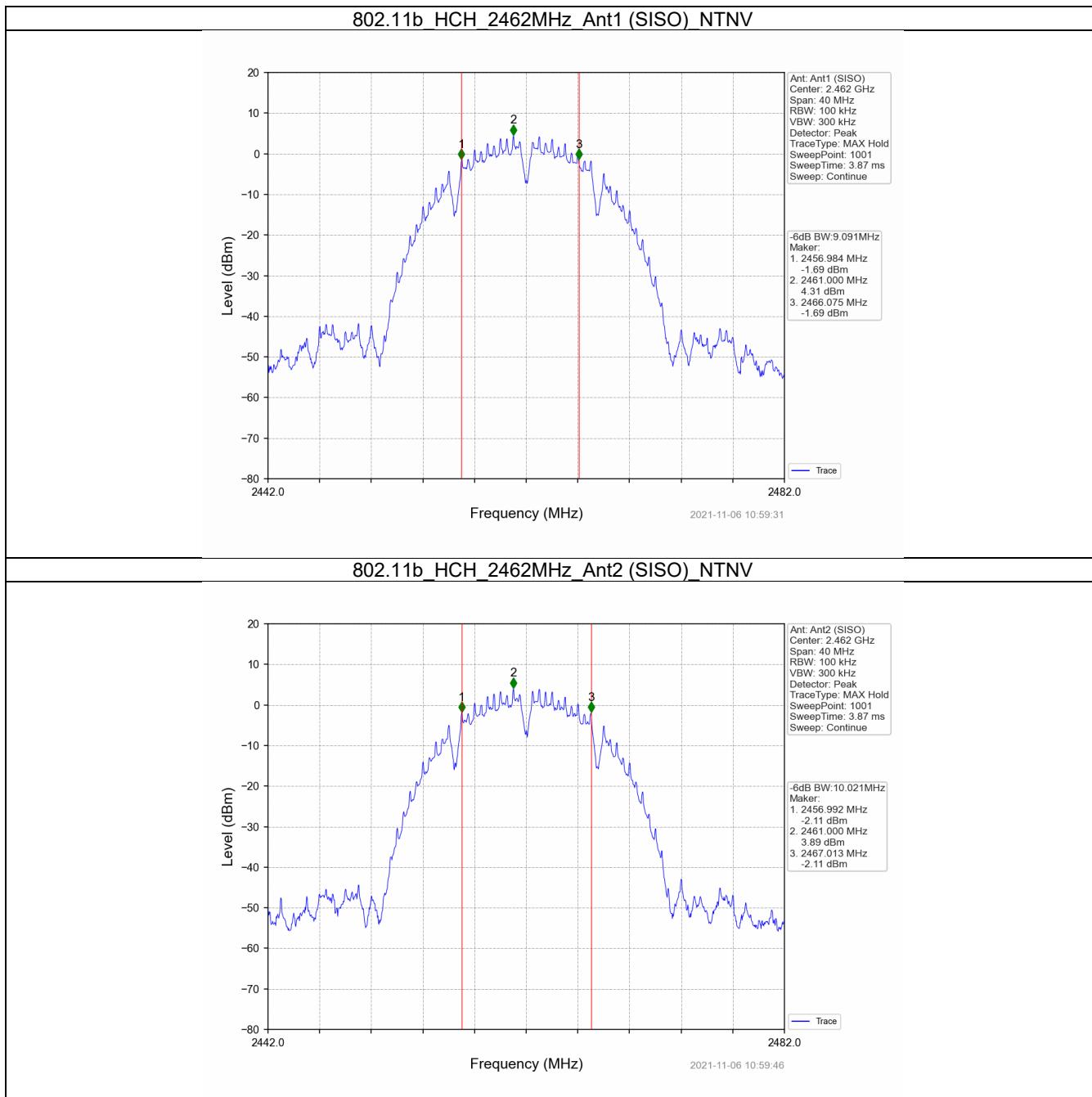
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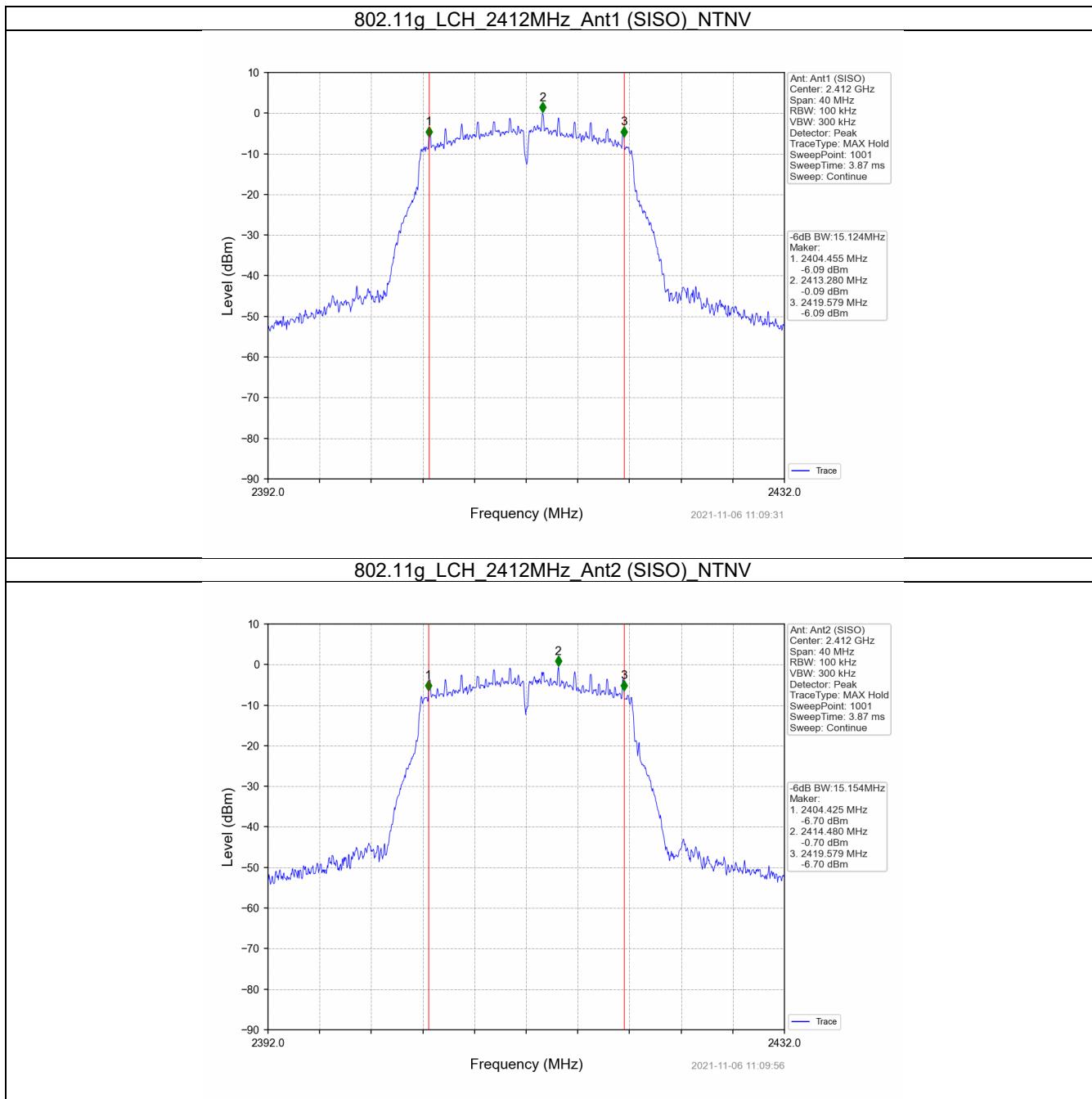
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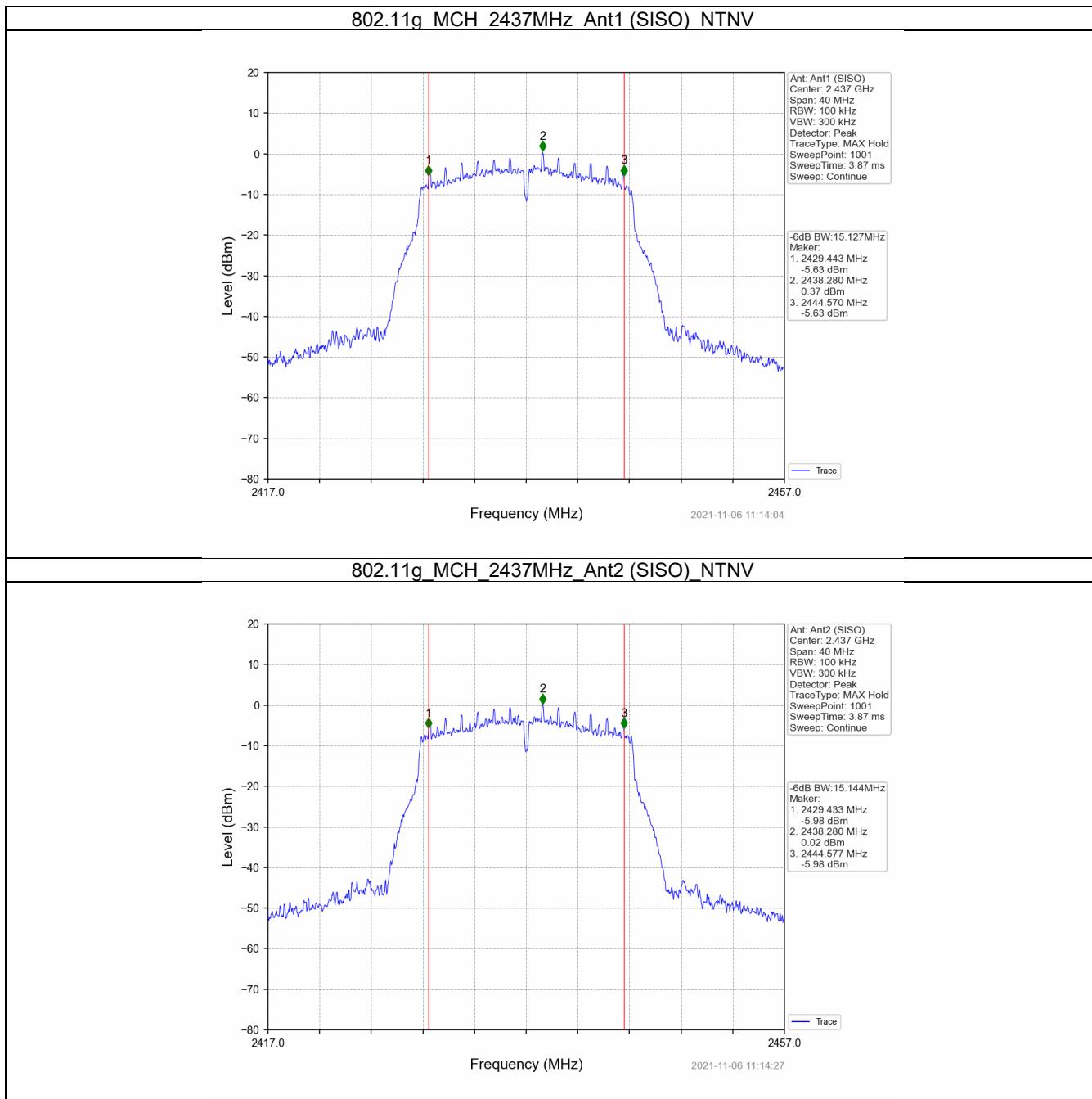
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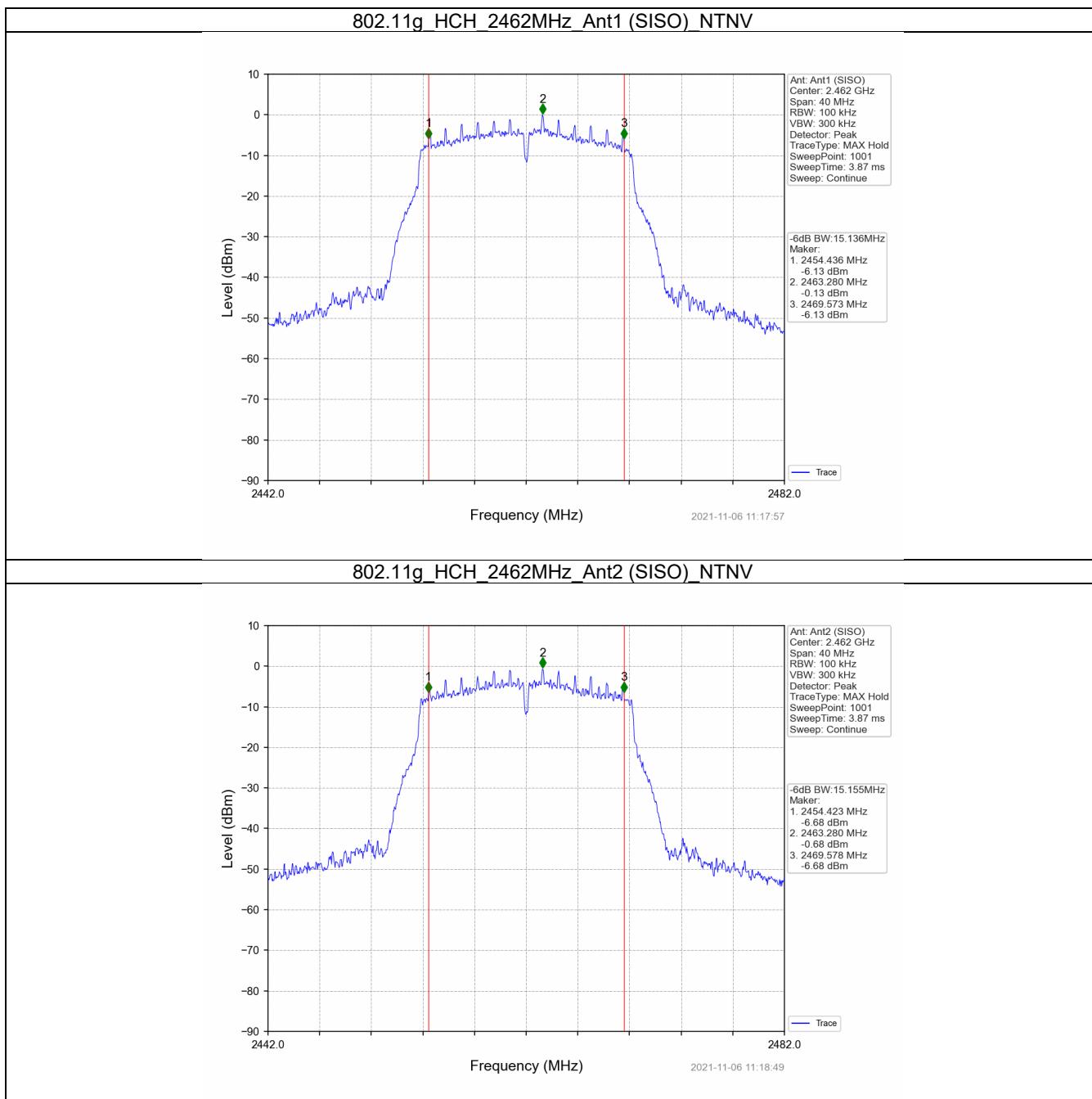
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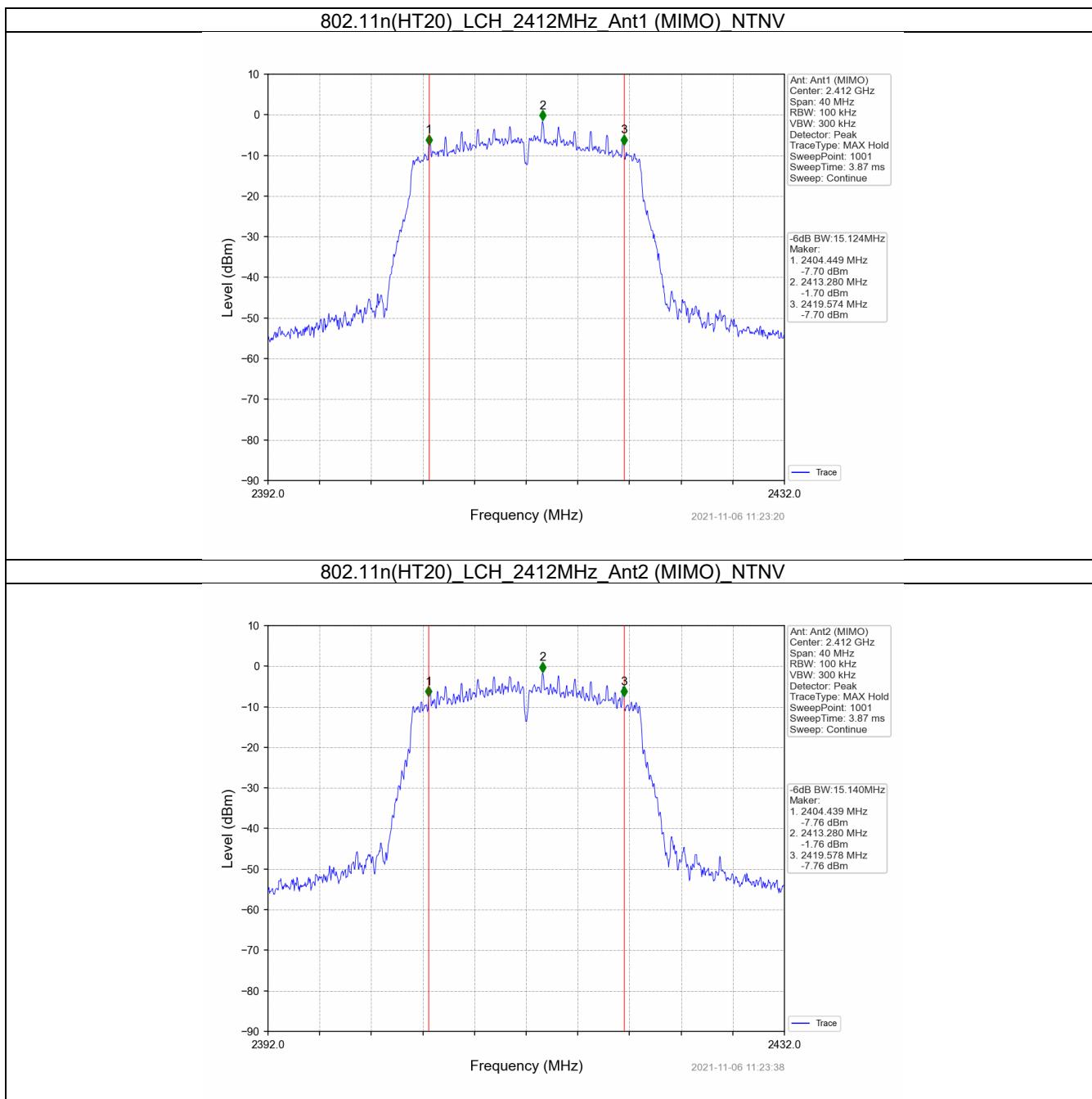
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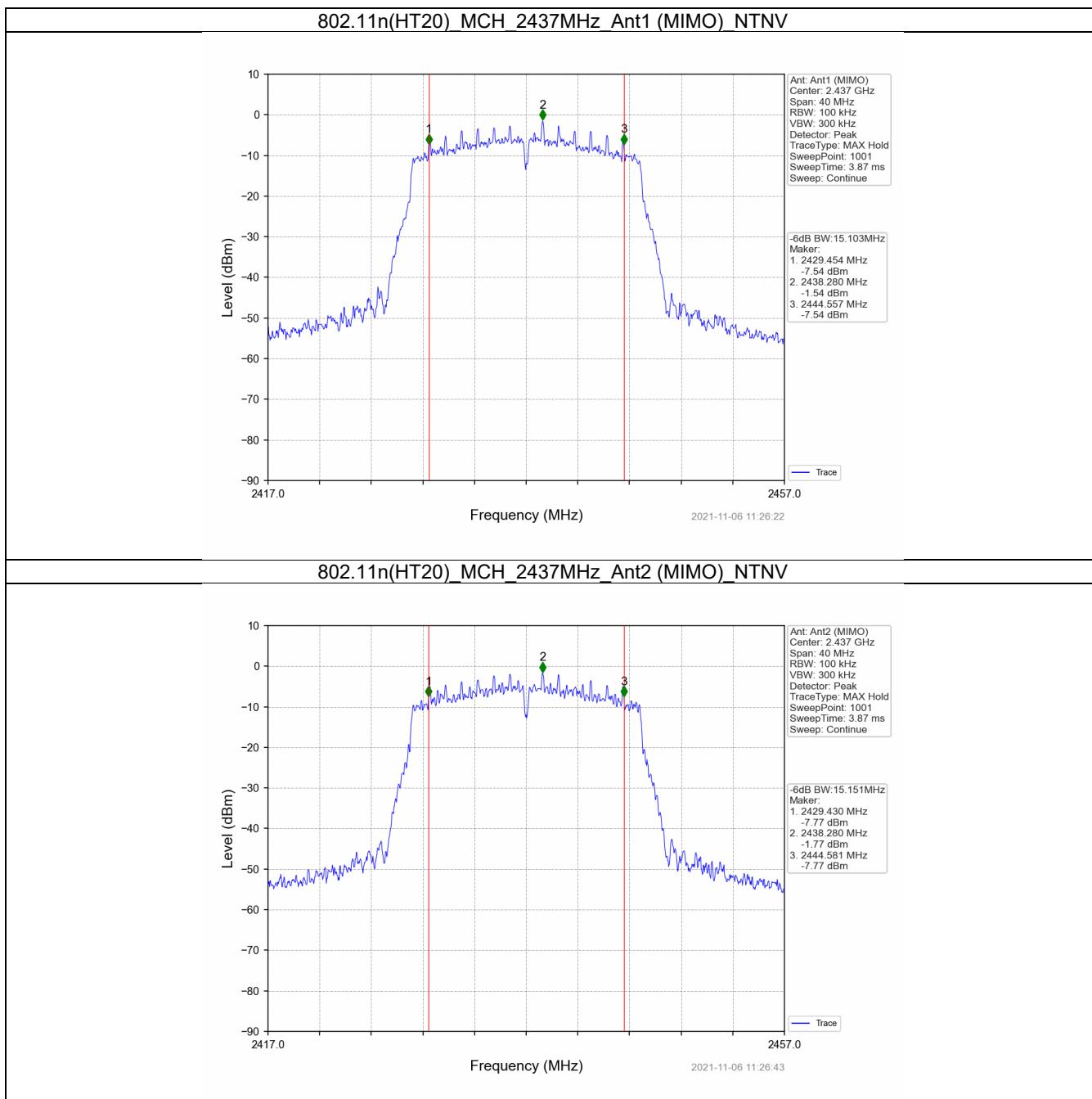
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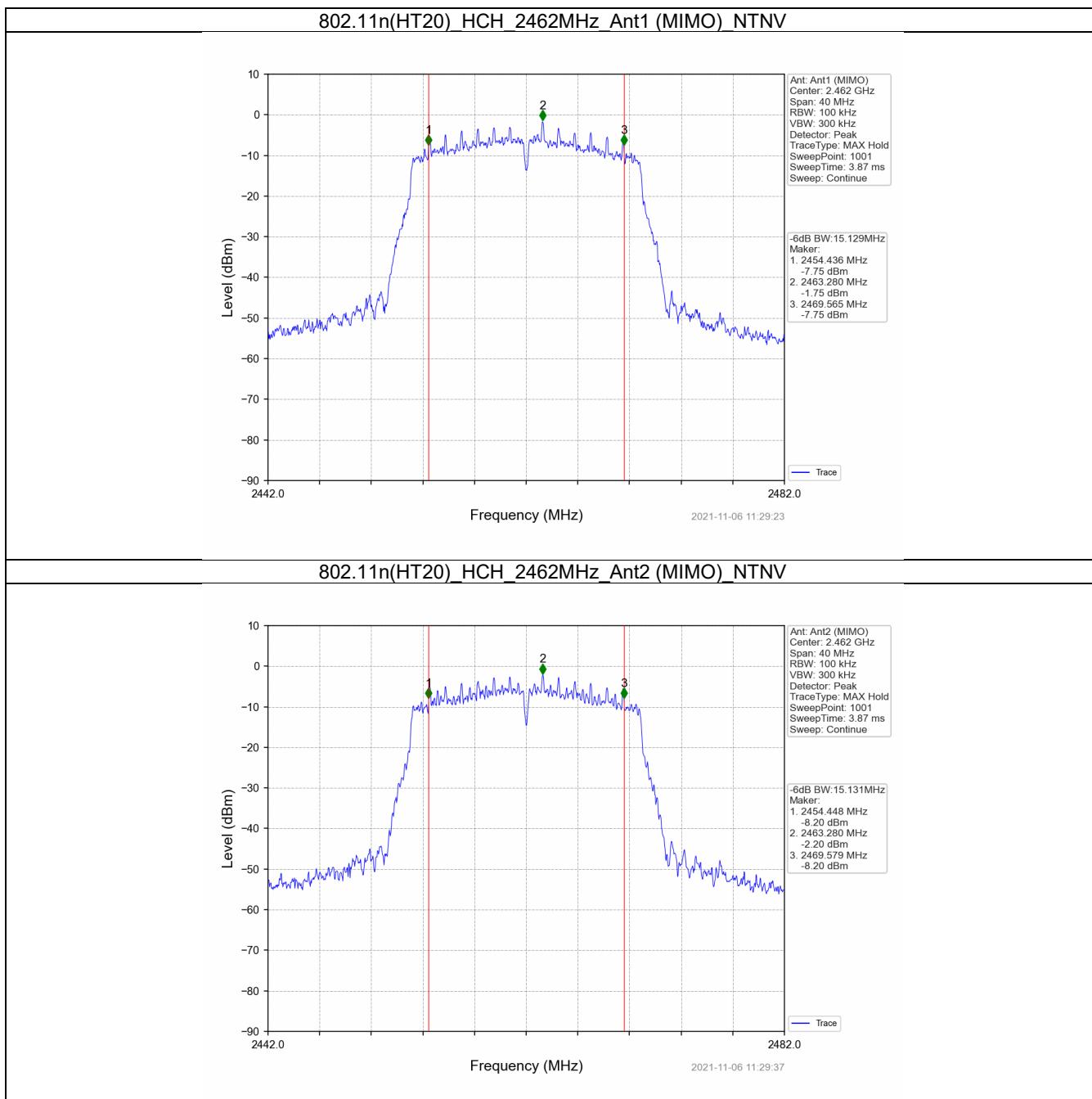
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3. Maximum Conducted Output Power

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	15.53	15.35	/	<=30	Pass
		2437	15.92	15.36	/	<=30	Pass
		2462	15.46	15.00	/	<=30	Pass
802.11g	SISO	2412	17.09	17.57	/	<=30	Pass
		2437	17.29	17.76	/	<=30	Pass
		2462	17.01	17.33	/	<=30	Pass
802.11n (HT20)	MIMO	2412	15.17	16.32	18.79	<=29.99	Pass
		2437	15.29	16.47	18.93	<=29.99	Pass
		2462	15.10	16.02	18.59	<=29.99	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;

Note2: Directional Gain: 6.01dBi

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	-1.63	-11.06	/	<=8	Pass
		2437	2.84	-4.89	/	<=8	Pass
		2462	-11.07	-4.69	/	<=8	Pass
802.11g	SISO	2412	-16.47	-16.33	/	<=8	Pass
		2437	-15.50	-16.07	/	<=8	Pass
		2462	-15.72	-16.16	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-17.60	-16.74	-15.15	<=7.99	Pass
		2437	-17.18	-17.06	-14.75	<=7.99	Pass
		2462	-17.67	-17.06	-15.07	<=7.99	Pass

Note1: Antenna Gain: Ant1: 3.00dBi; Ant2: 3.00dBi;

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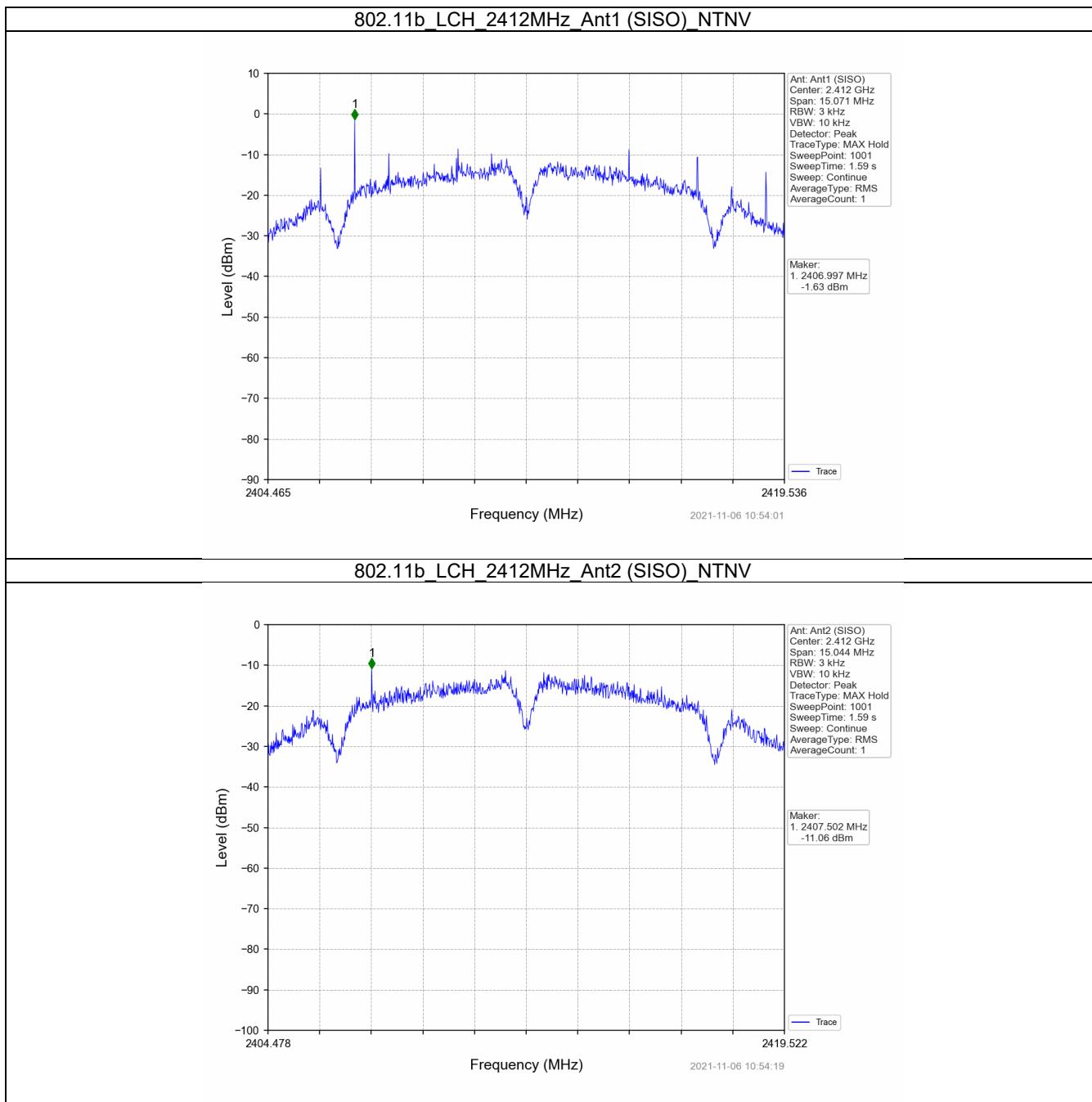
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4.1.2 Test Graph



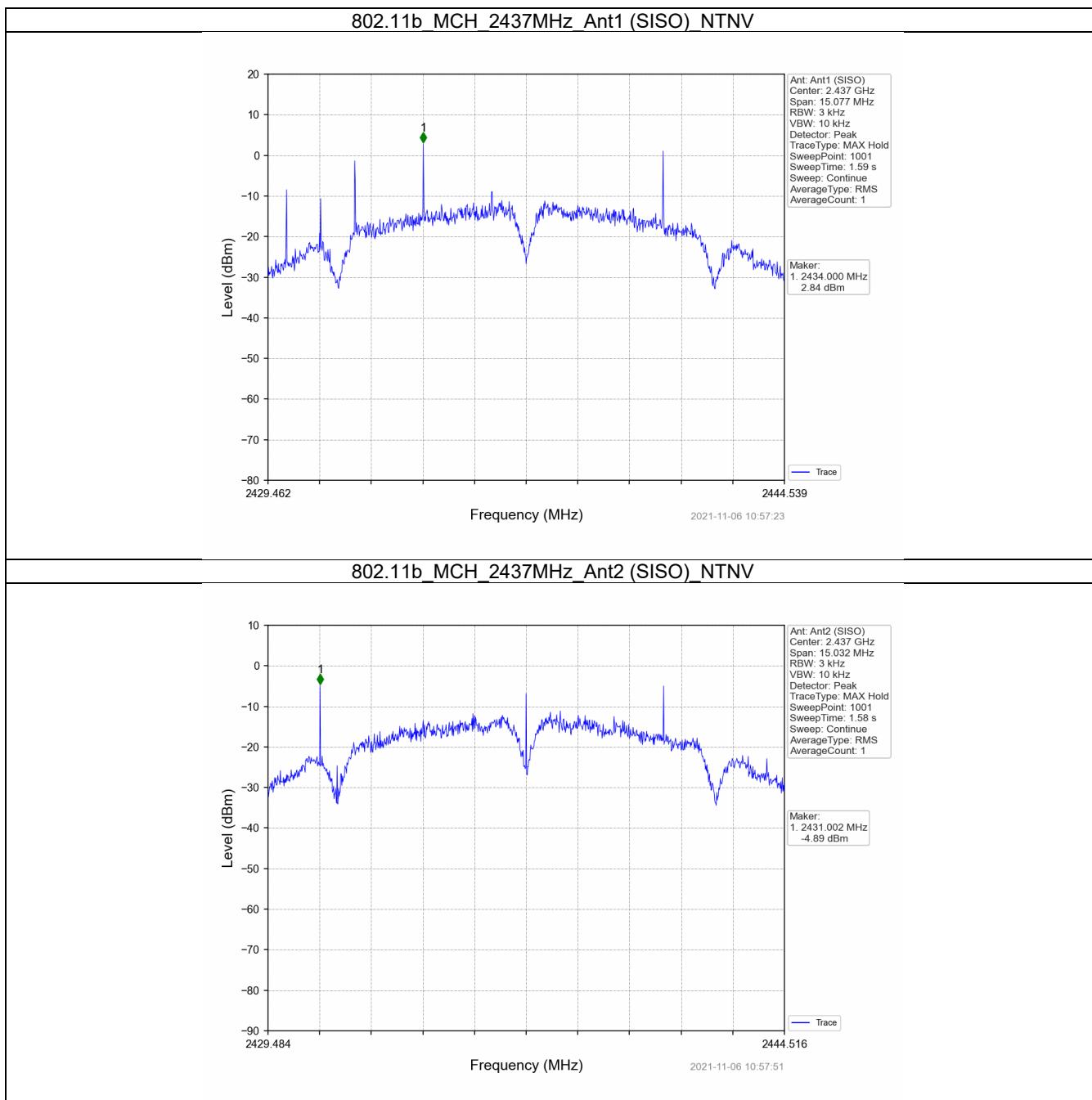
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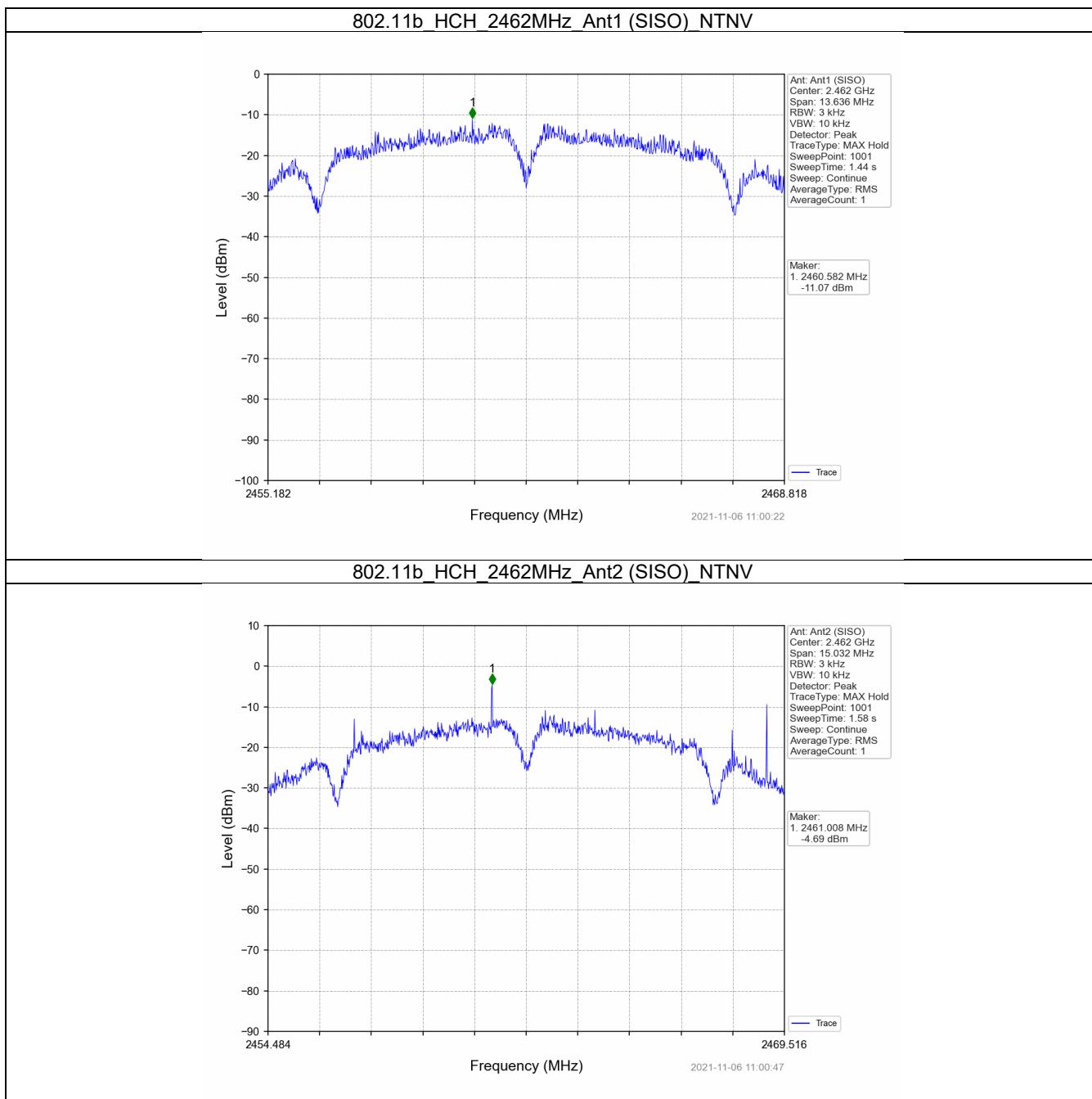
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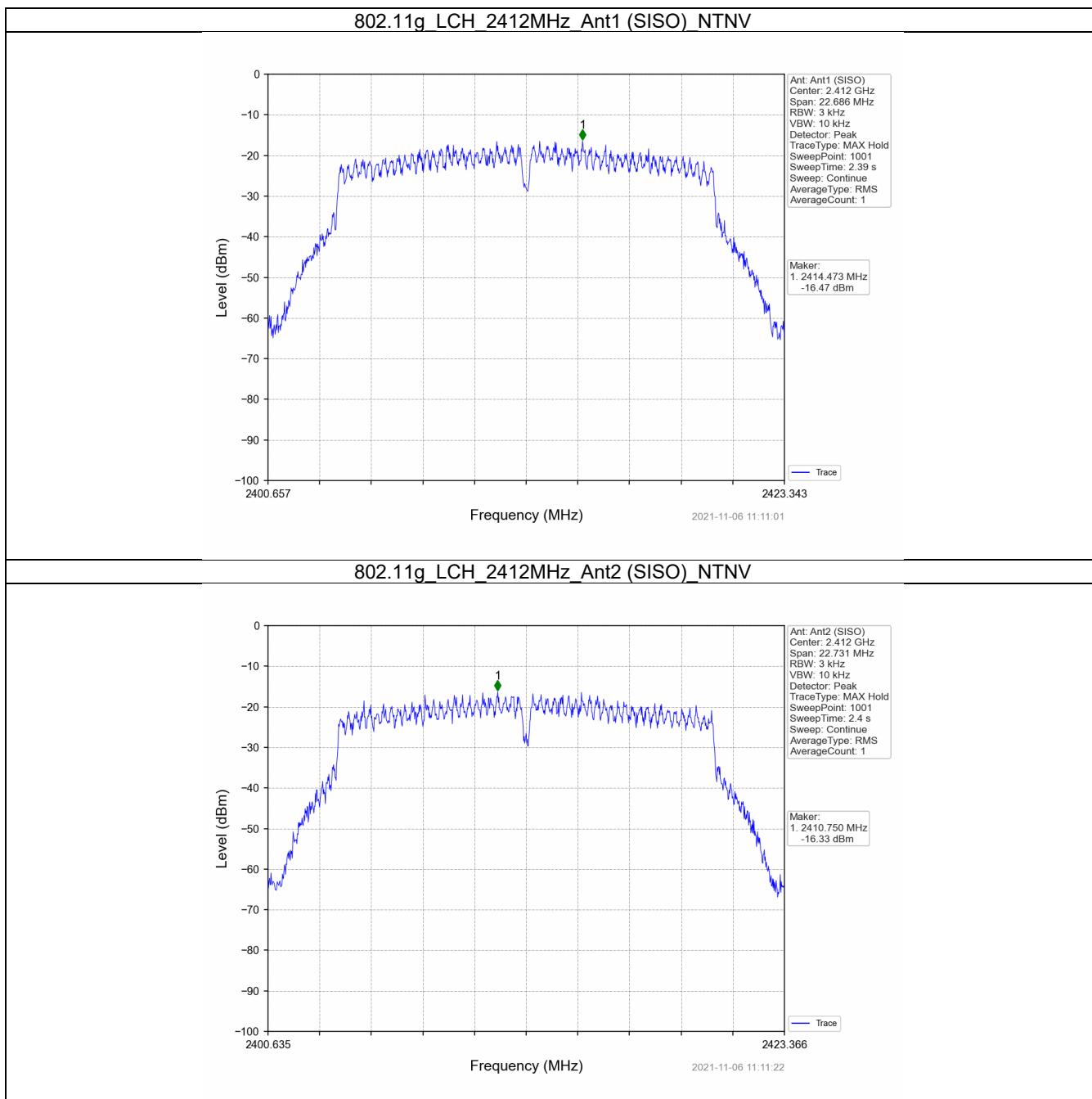
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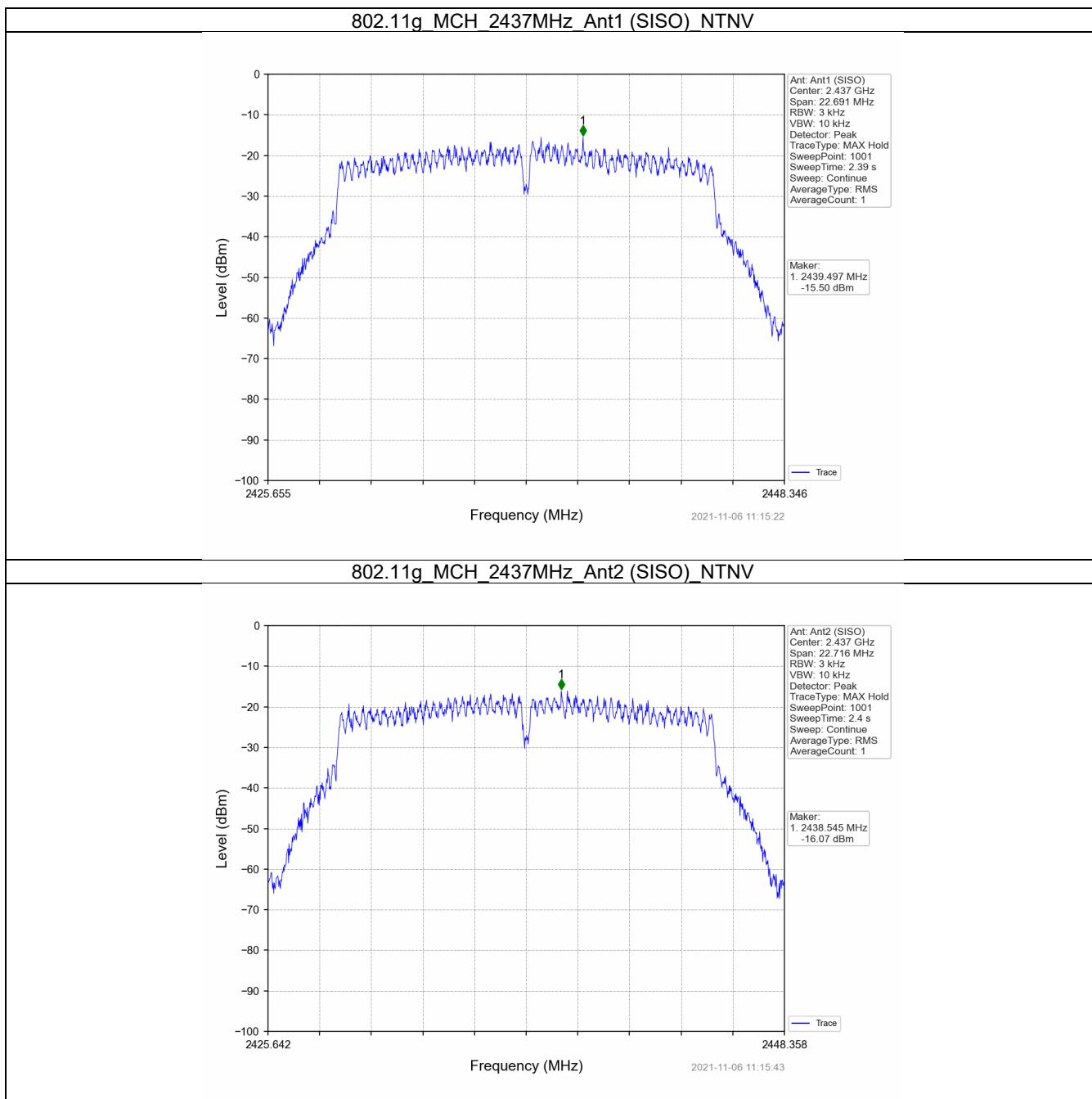
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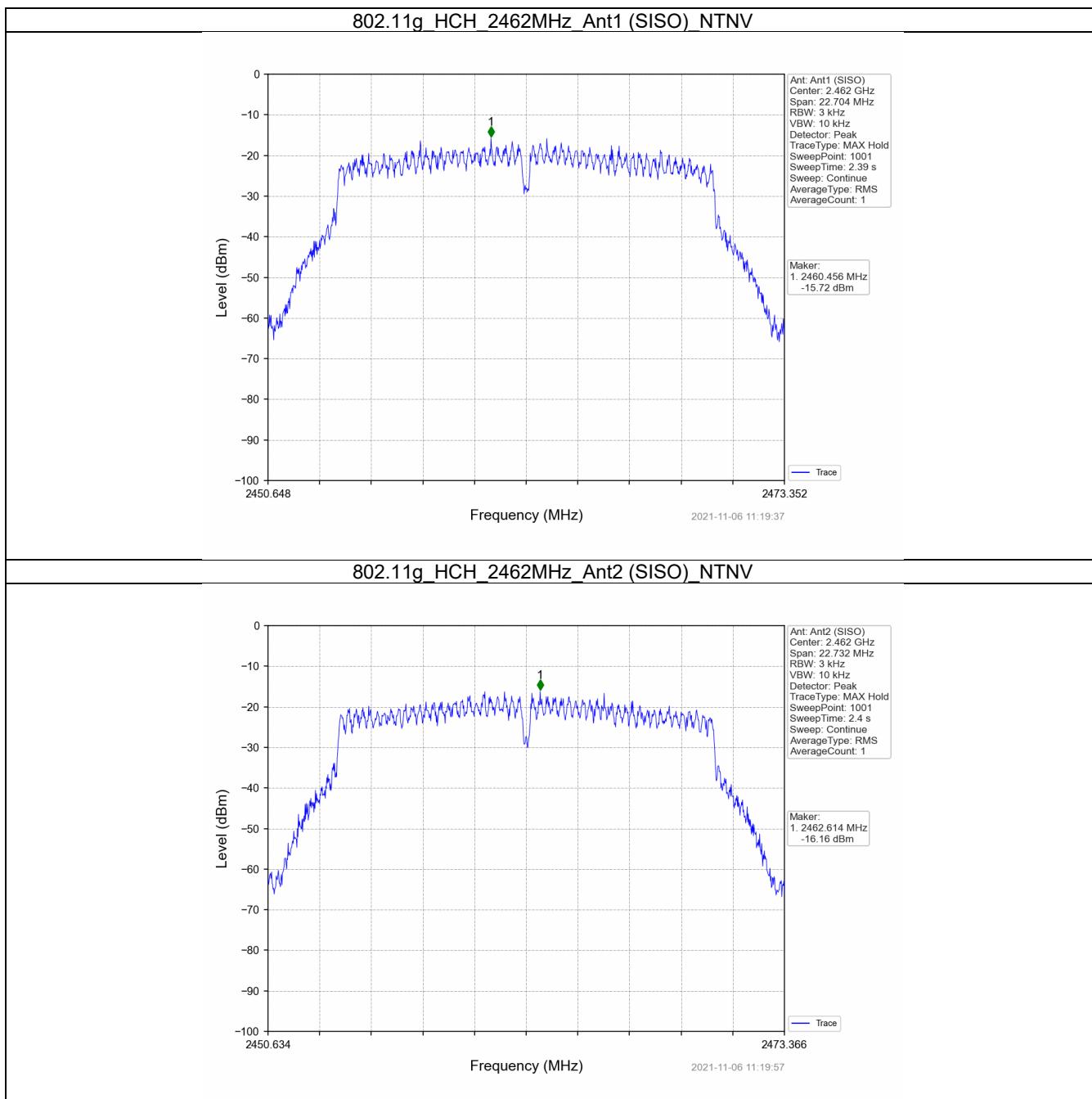
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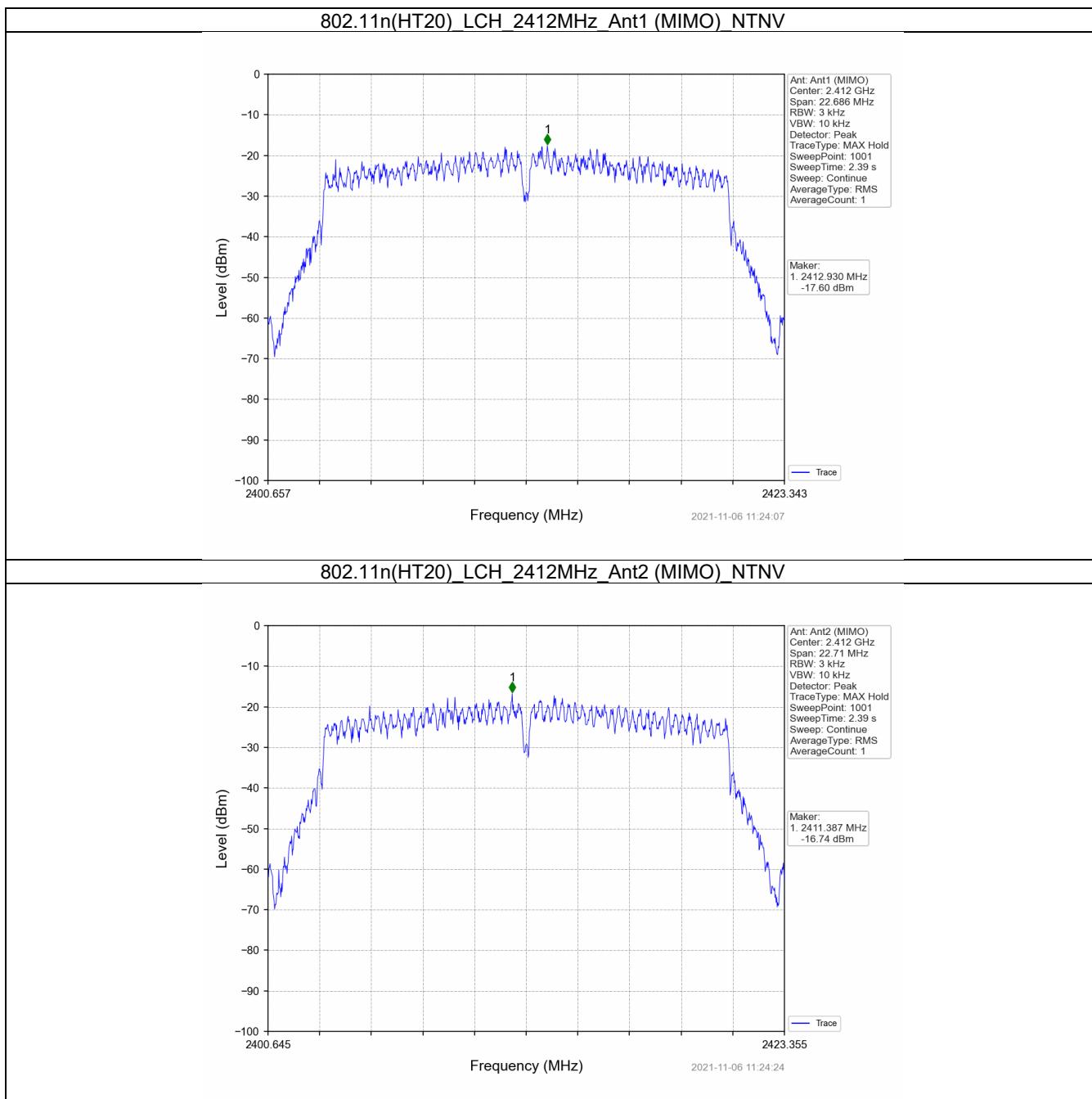
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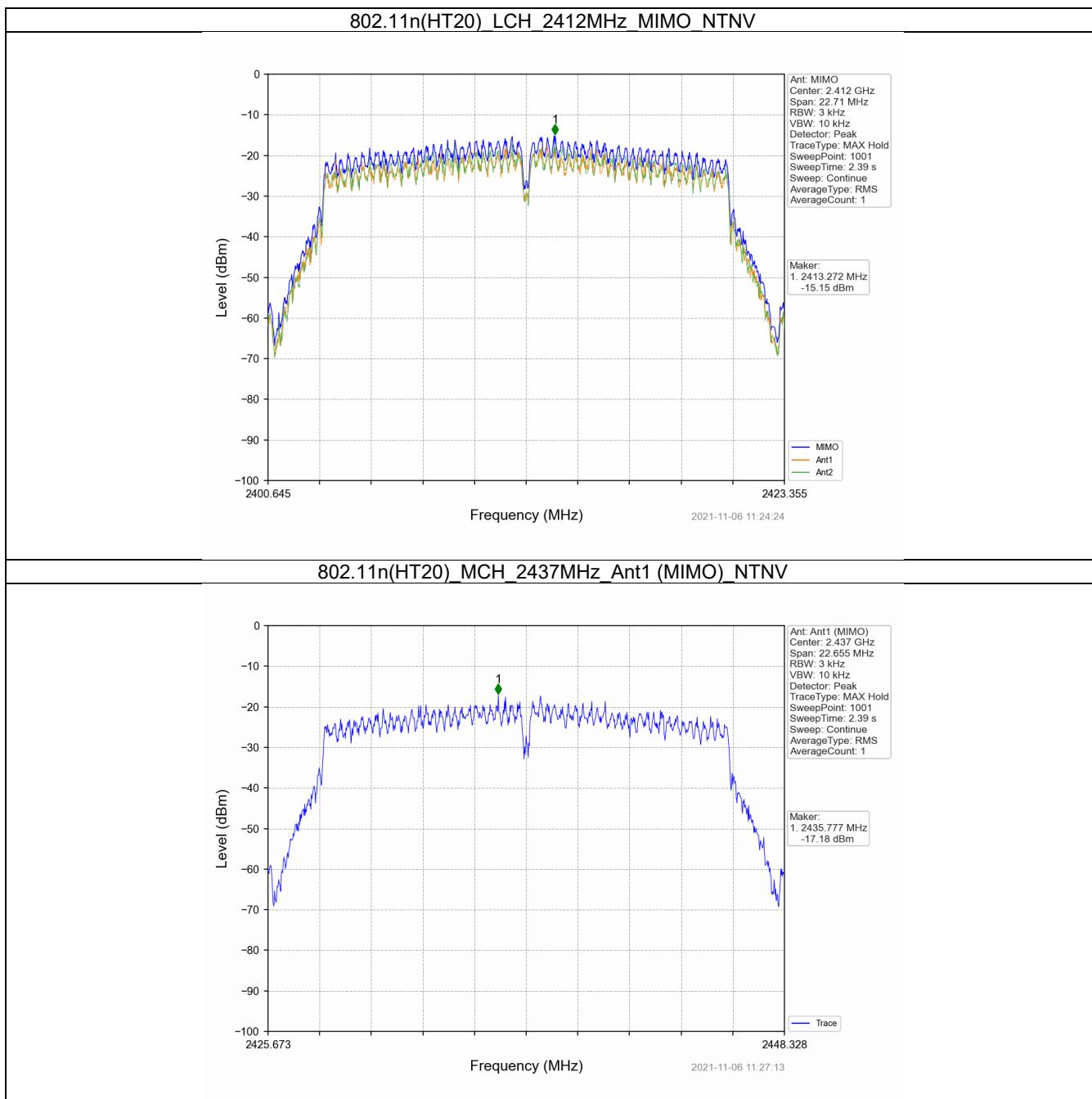
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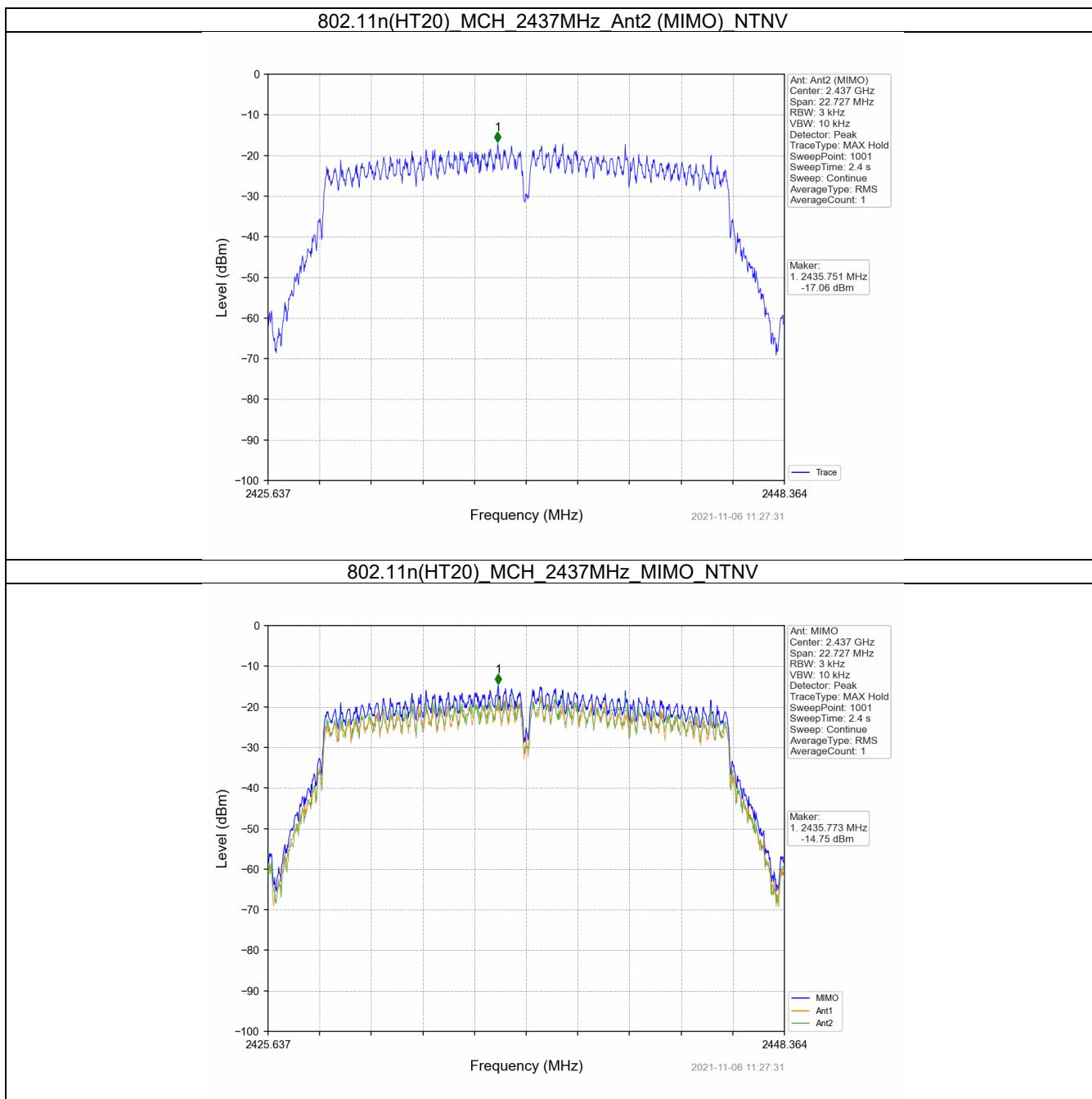
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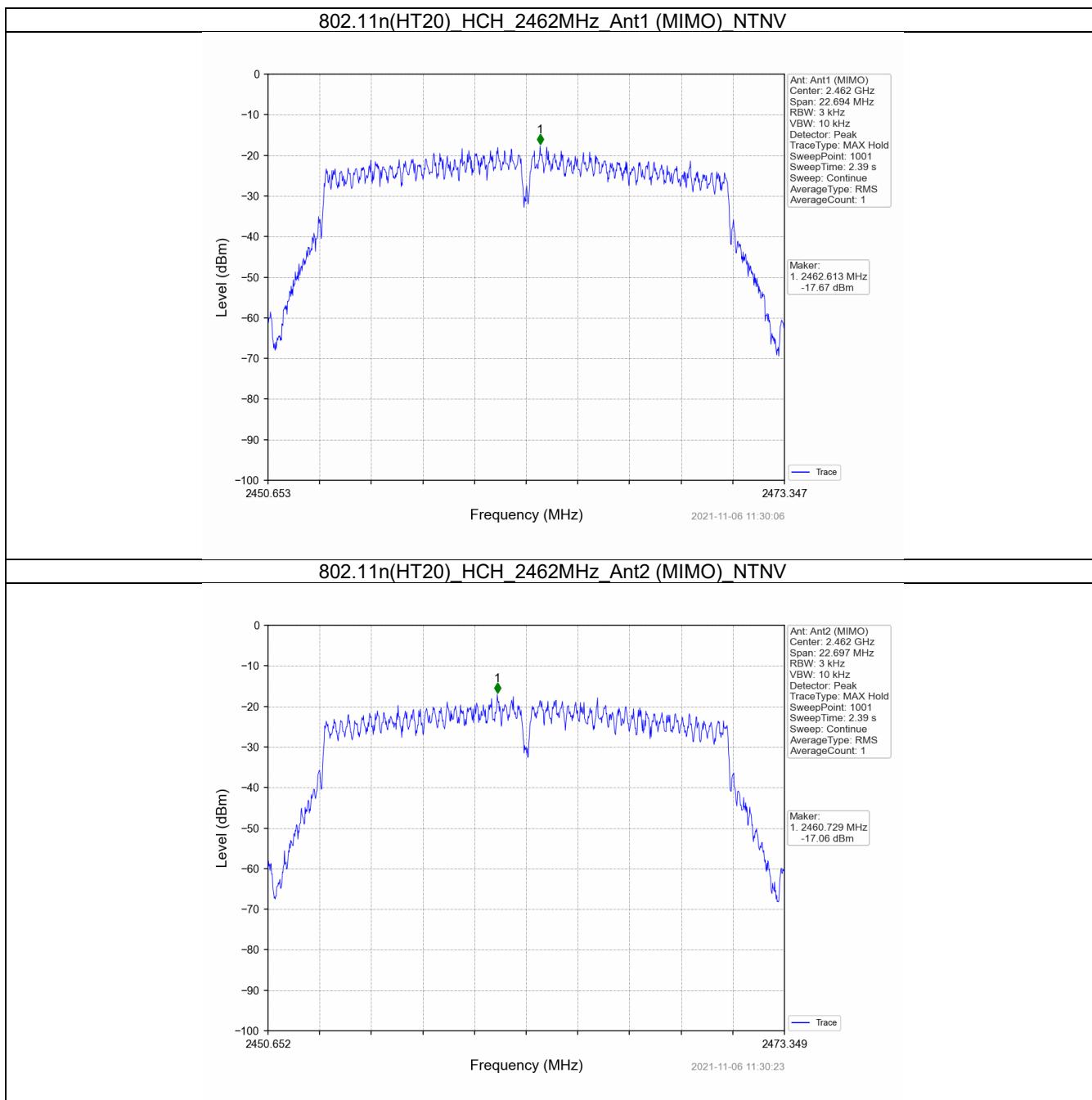
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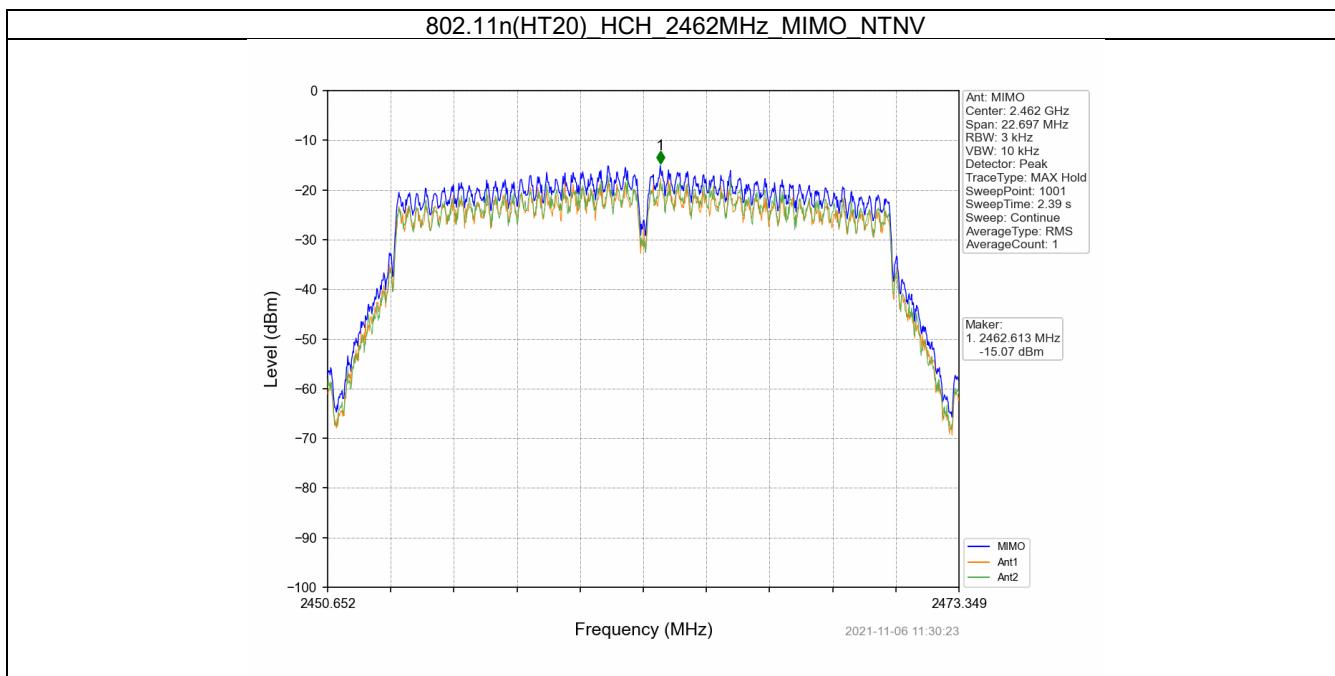
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	4.38
			2	4.18
		2437	1	4.77
			2	4.20
		2462	1	4.53
			2	3.86
802.11g	SISO	2412	1	-0.15
			2	-0.25
		2437	1	-0.27
			2	-0.21
		2462	1	-0.44
			2	-0.60
802.11n (HT20)	MIMO	2412	1	-1.82
			2	-2.11
		2437	1	-1.71
			2	-1.75
		2462	1	-1.95
			2	-2.25

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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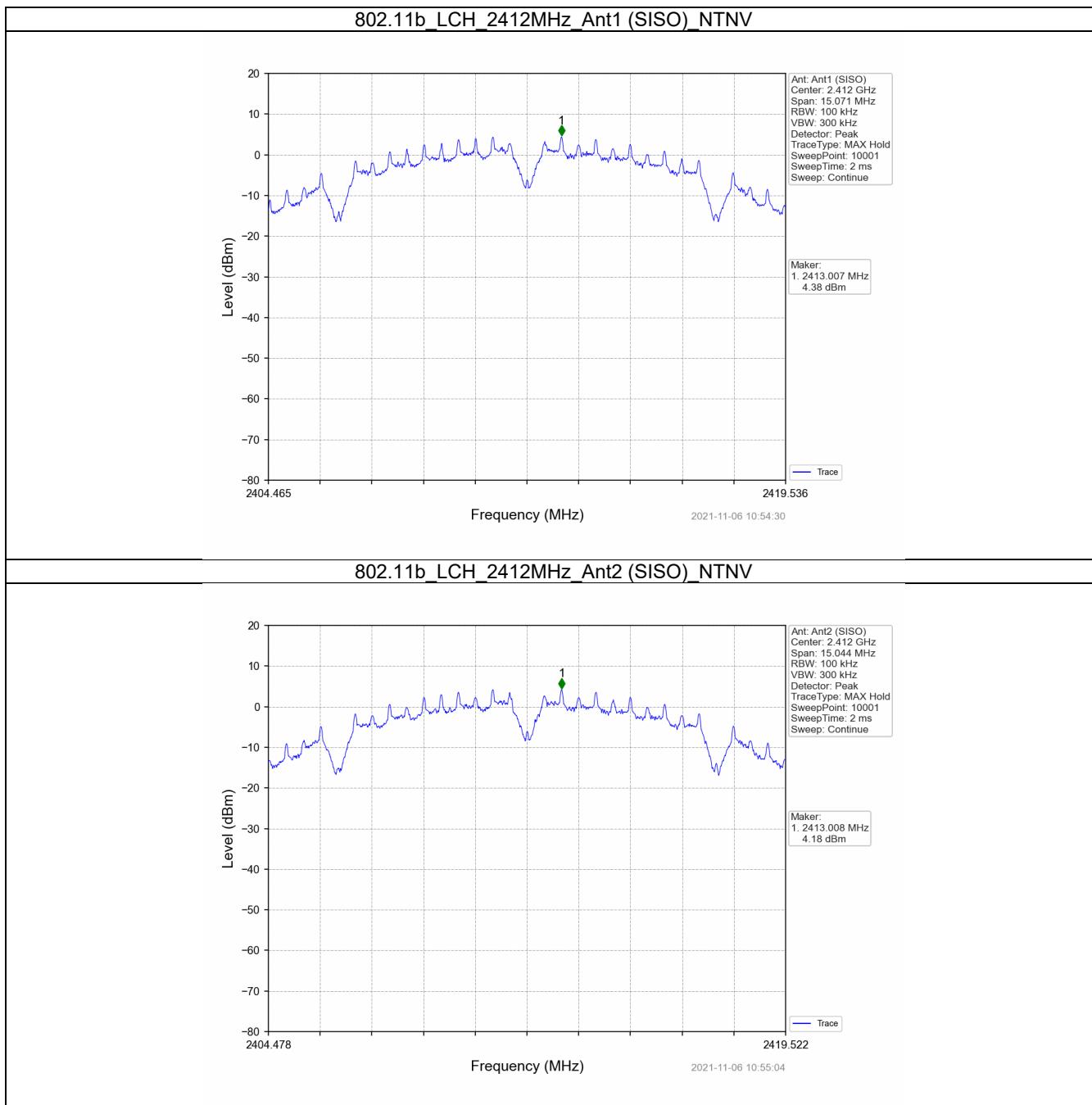
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5.1.2 Test Graph



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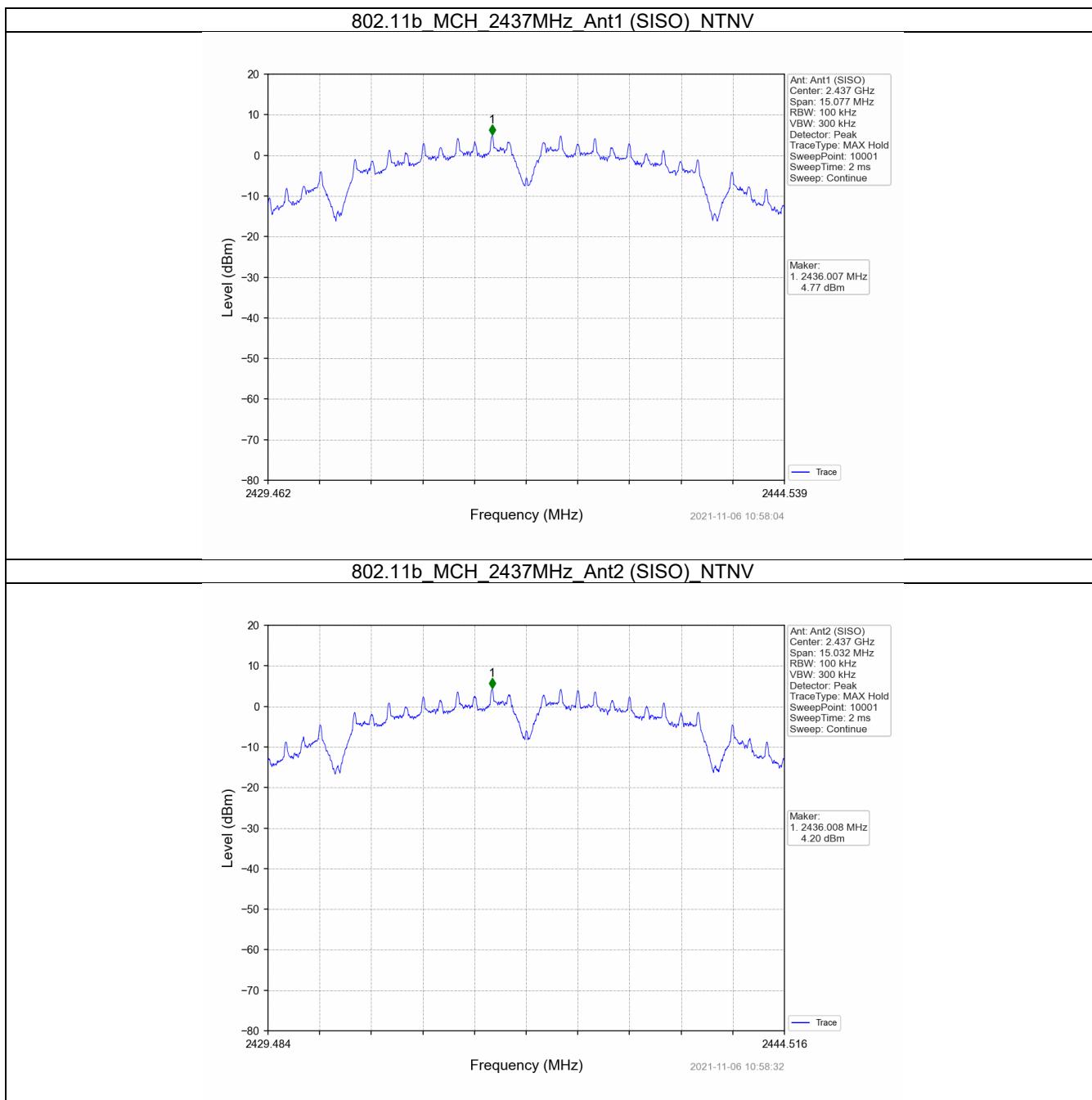


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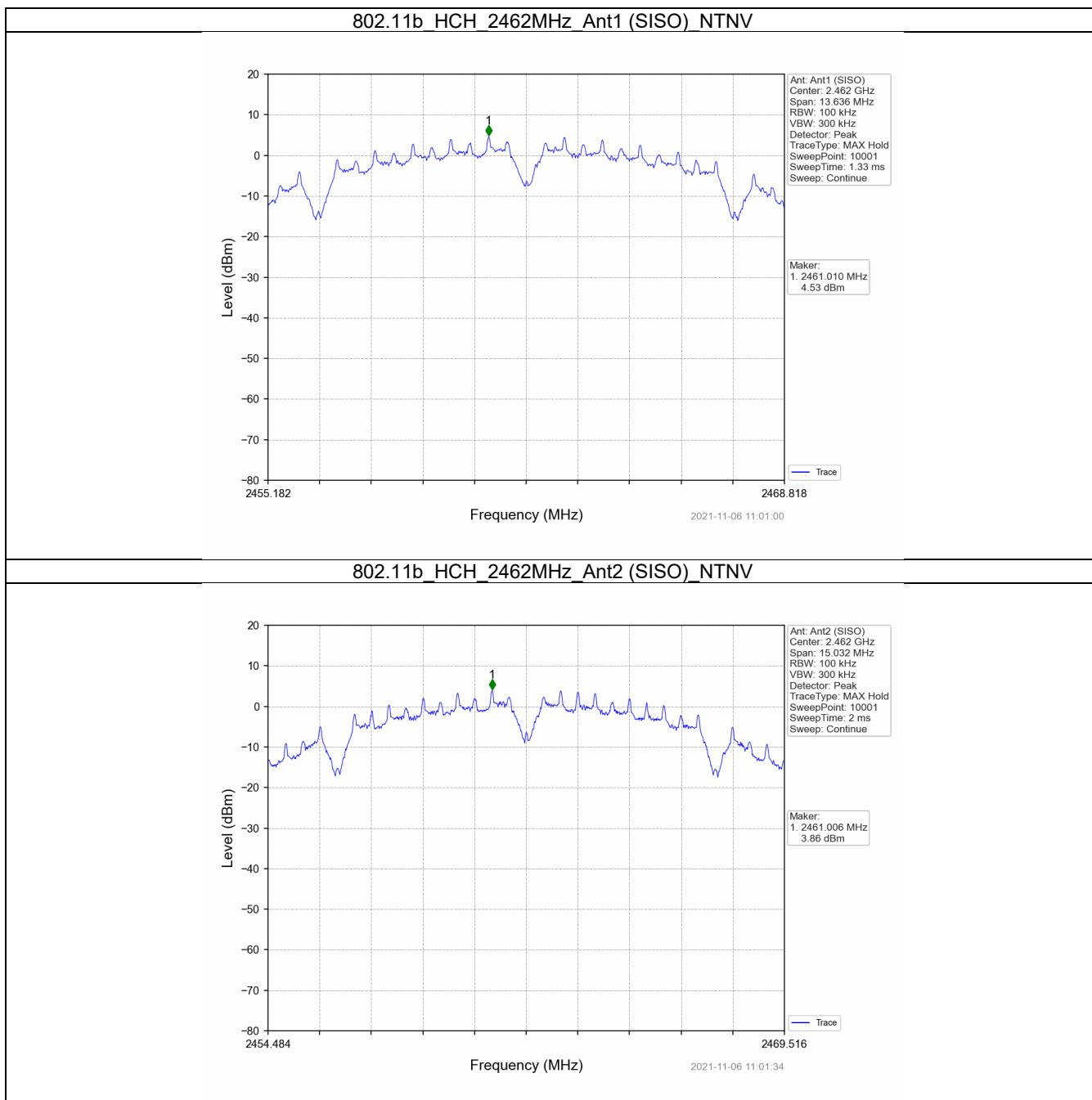
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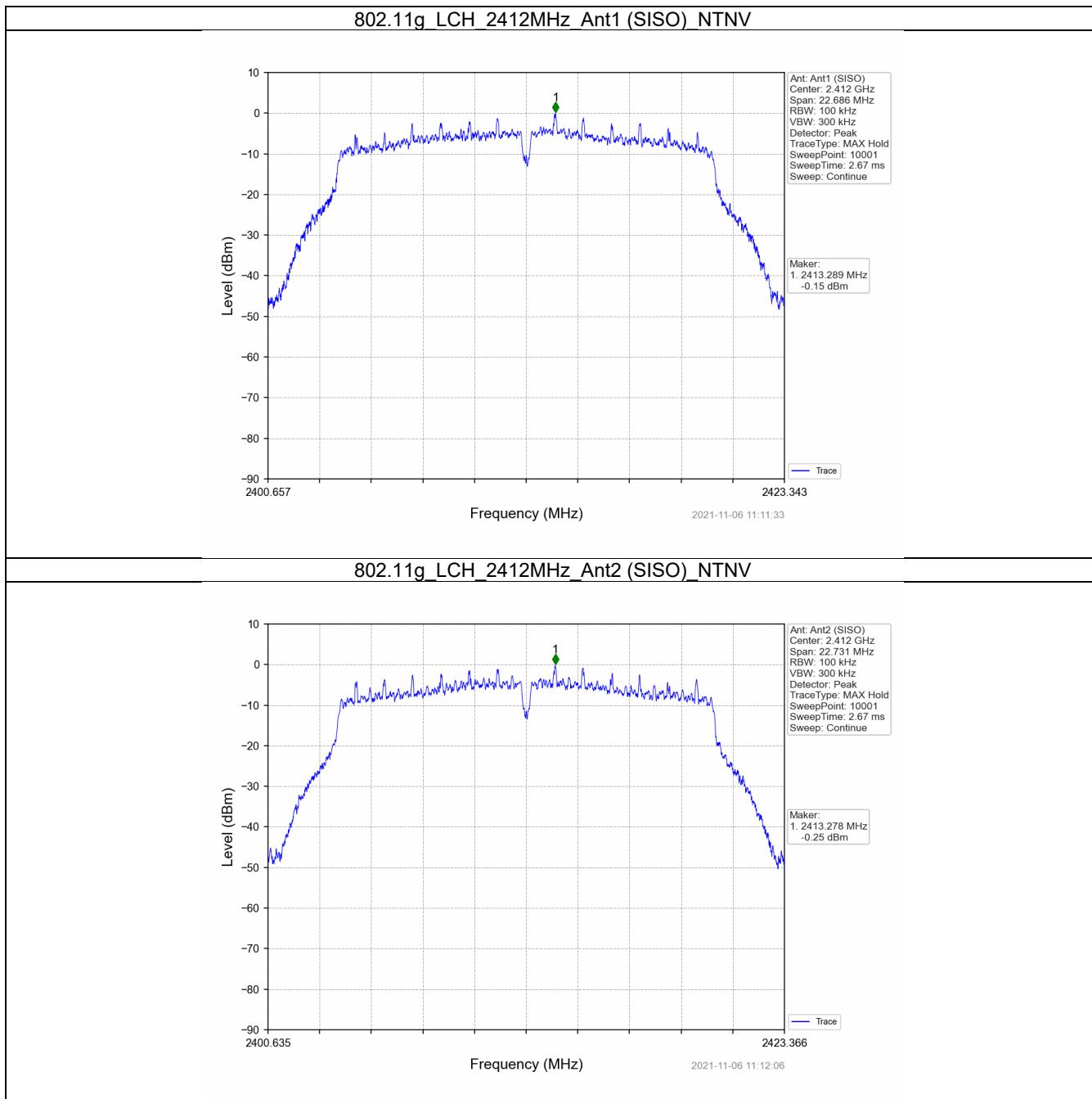
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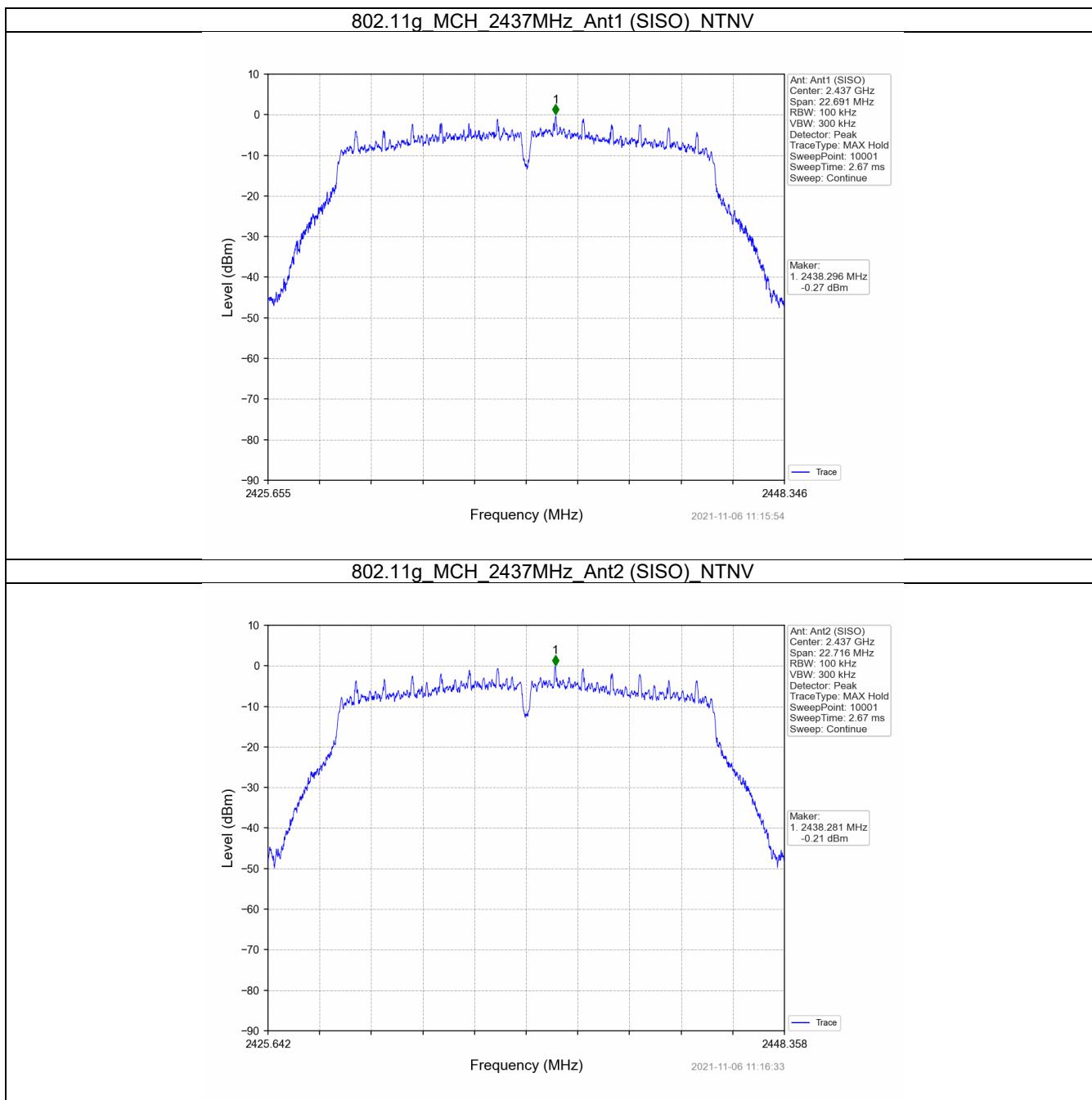
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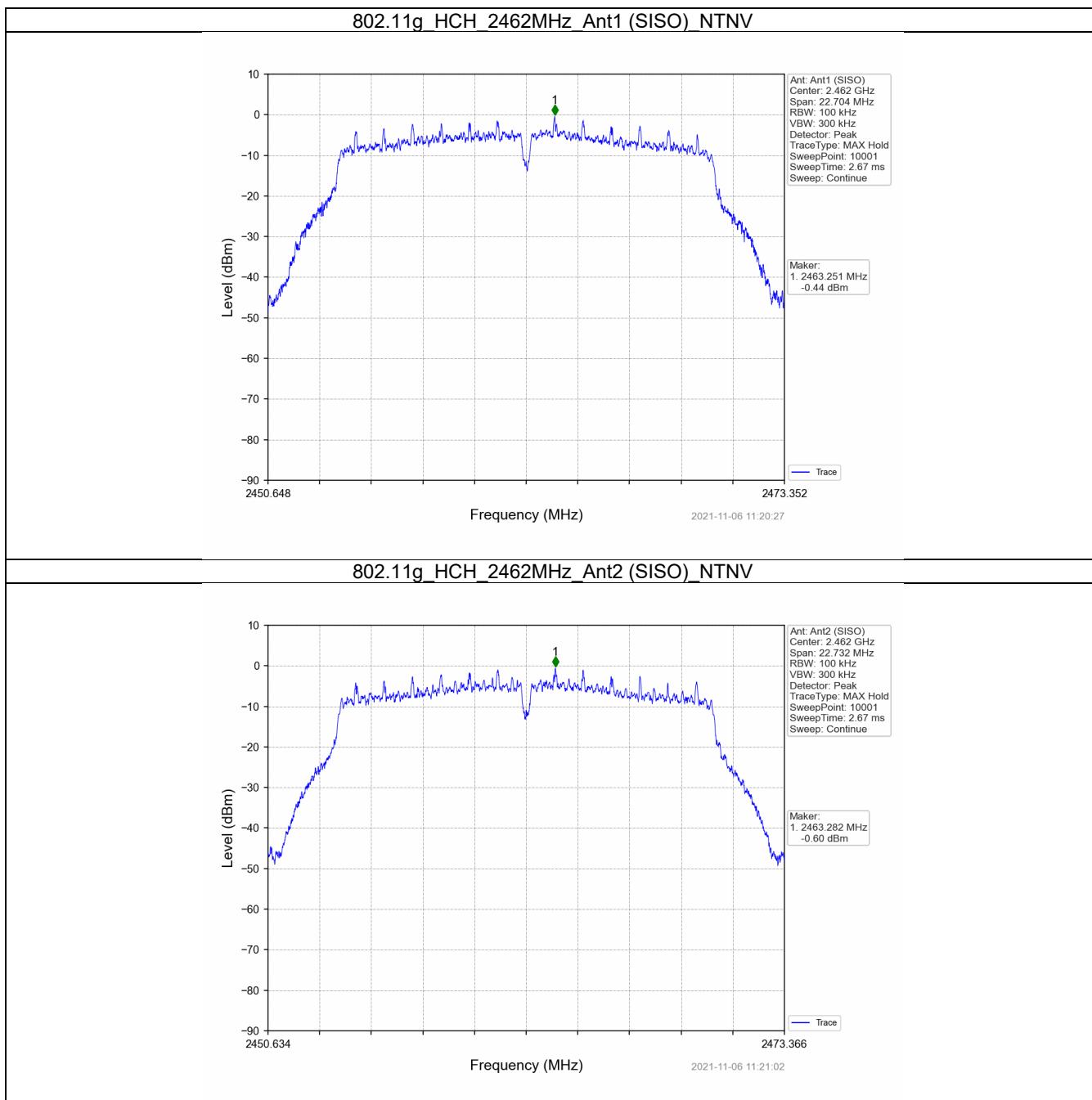
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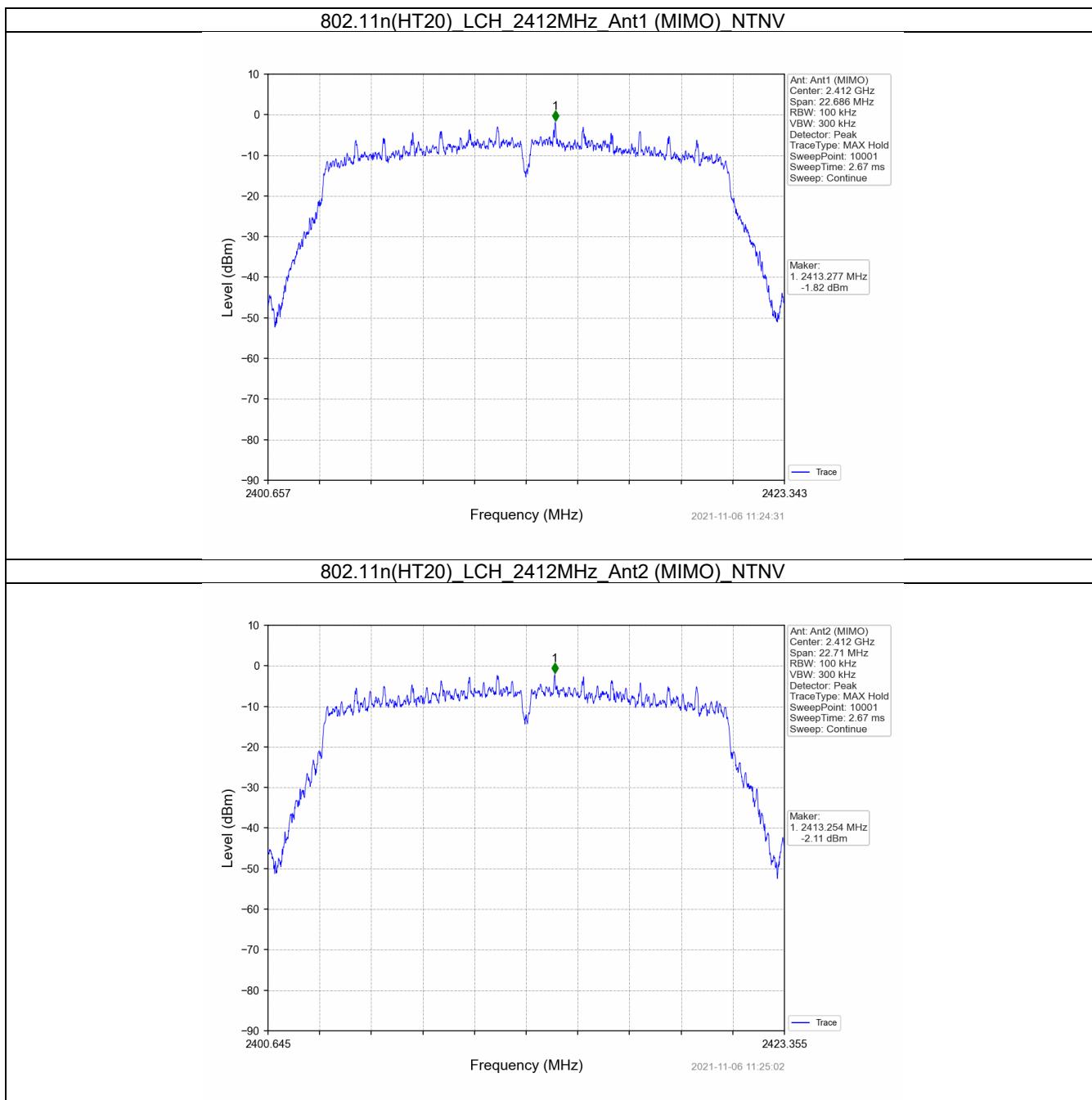
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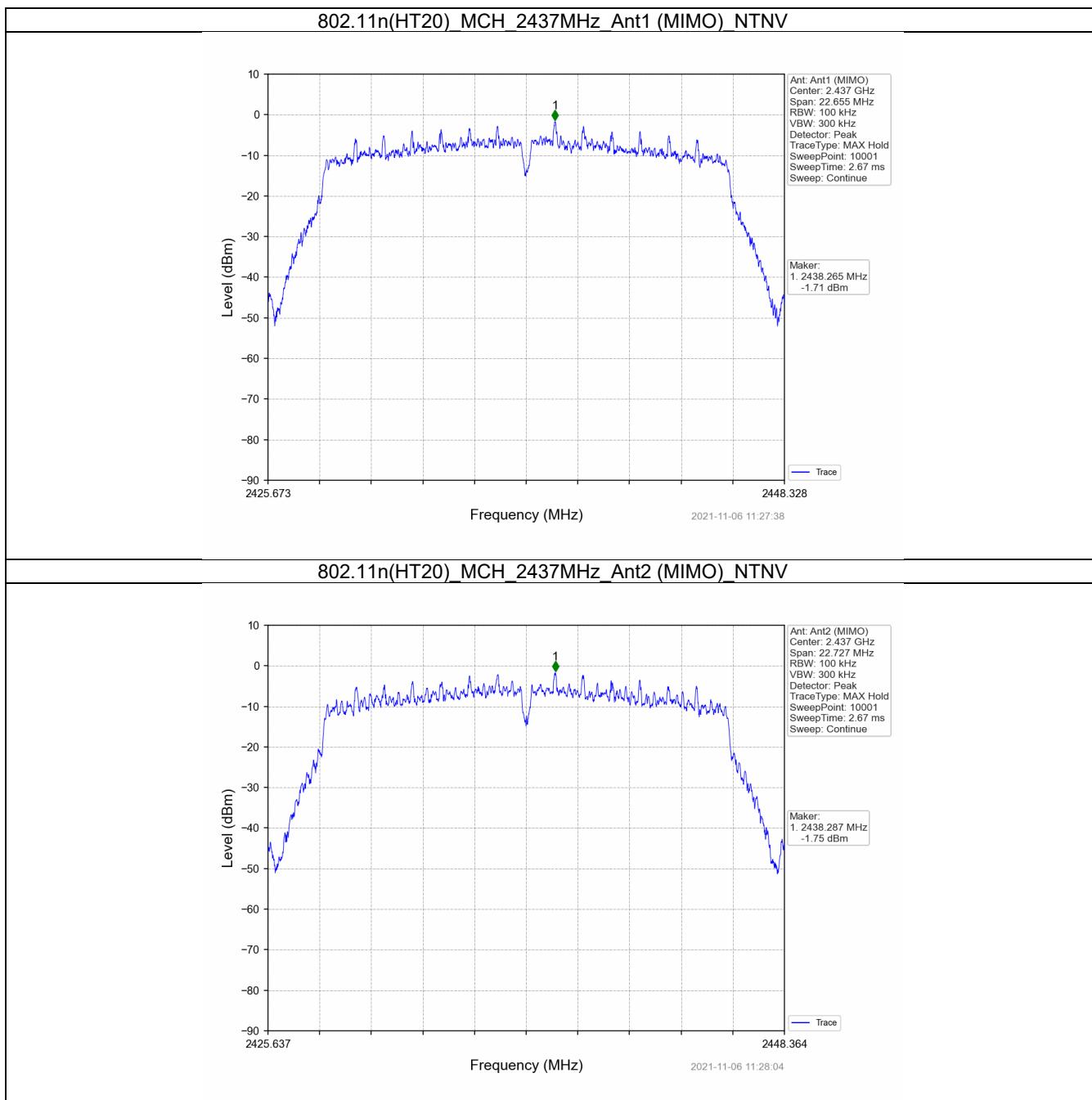
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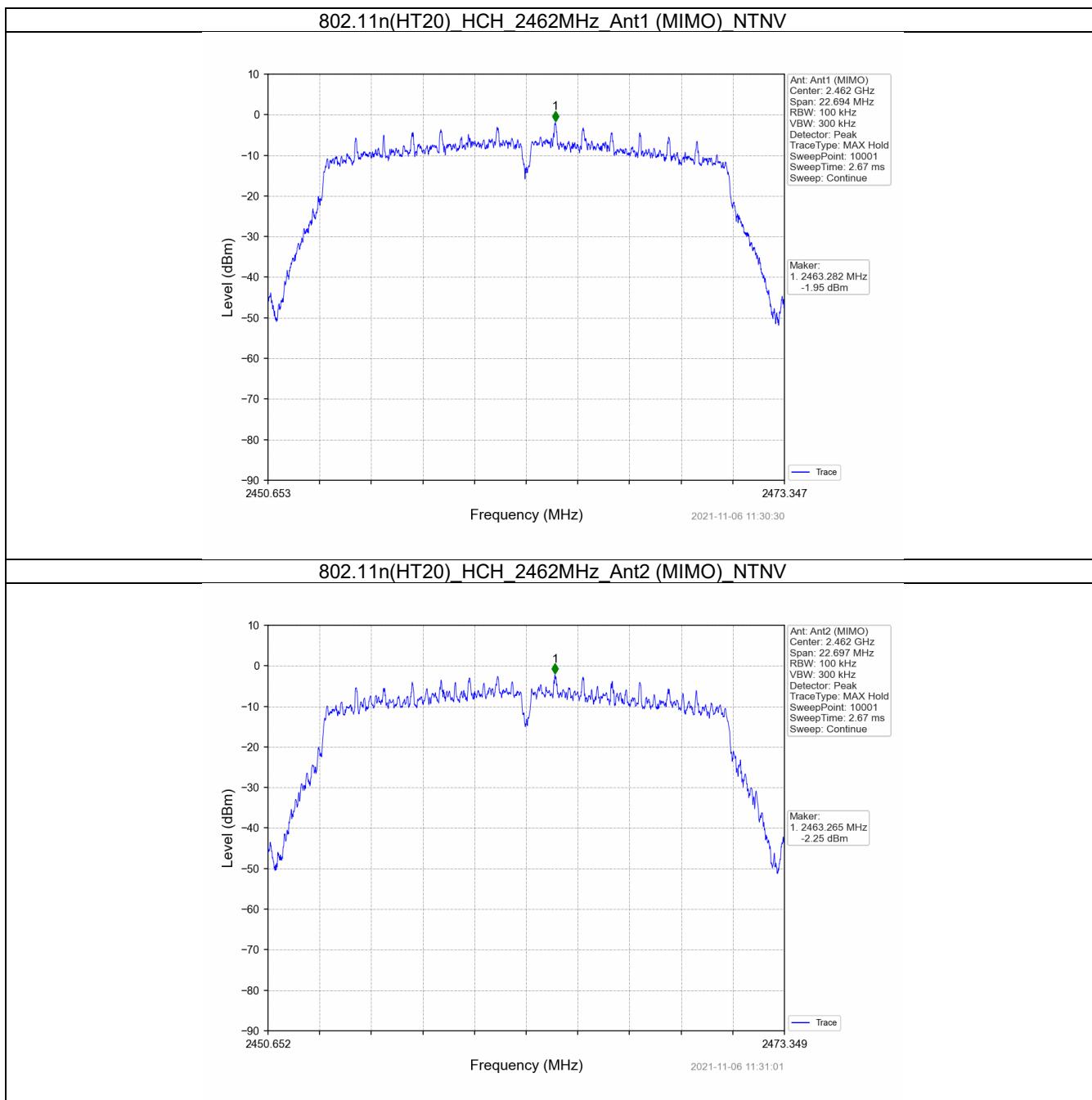
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
		2437	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
		2462	1	4.77	-15.23	Pass
			2	4.20	-15.80	Pass
	SISO	2412	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
		2437	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
		2462	1	-0.15	-20.15	Pass
			2	-0.21	-20.21	Pass
802.11n (HT20)	MIMO	2412	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass
		2437	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	Pass
		2462	1	-1.71	-21.71	Pass
			2	-1.75	-21.75	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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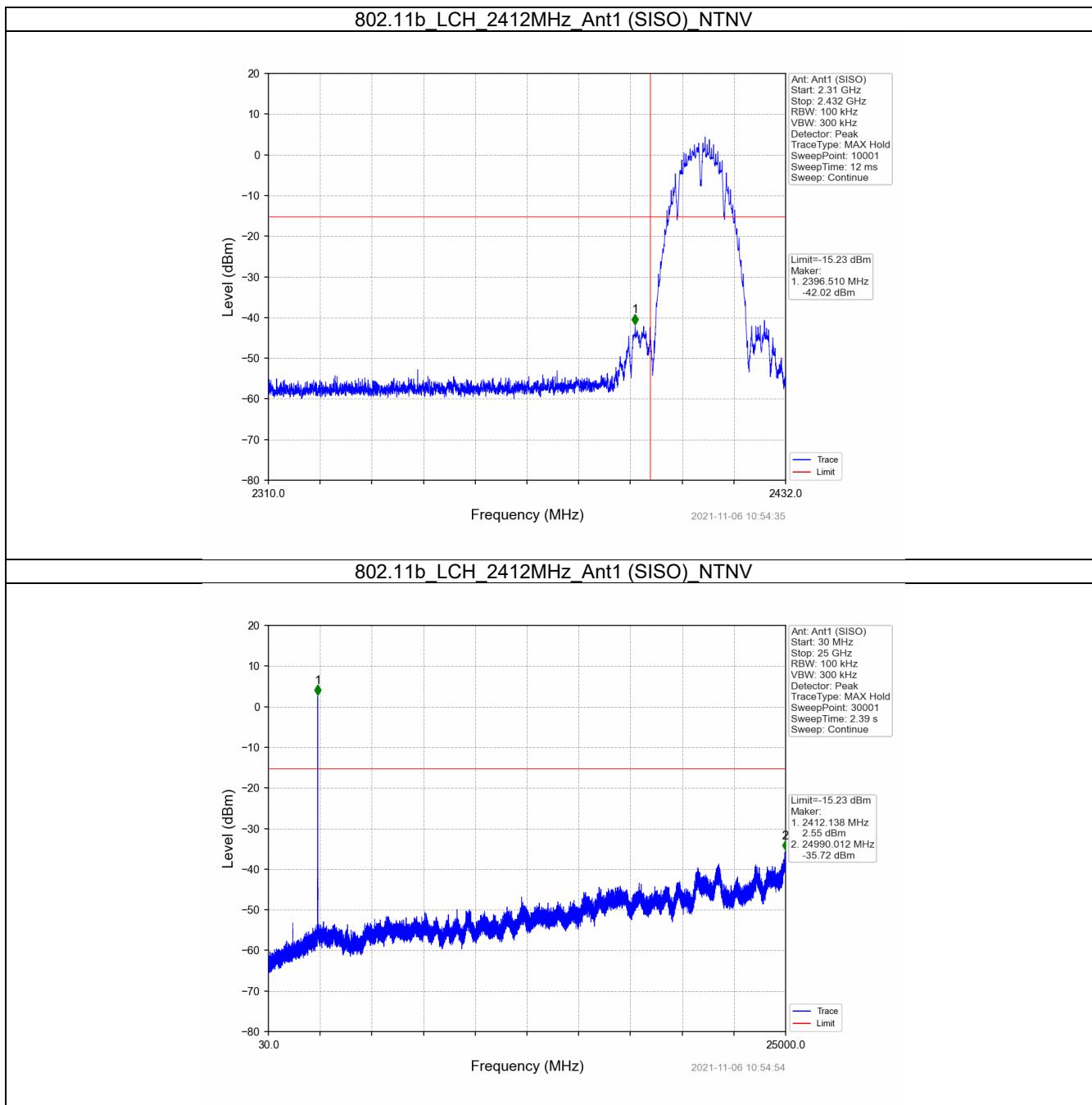
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5.2.2 Test Graph



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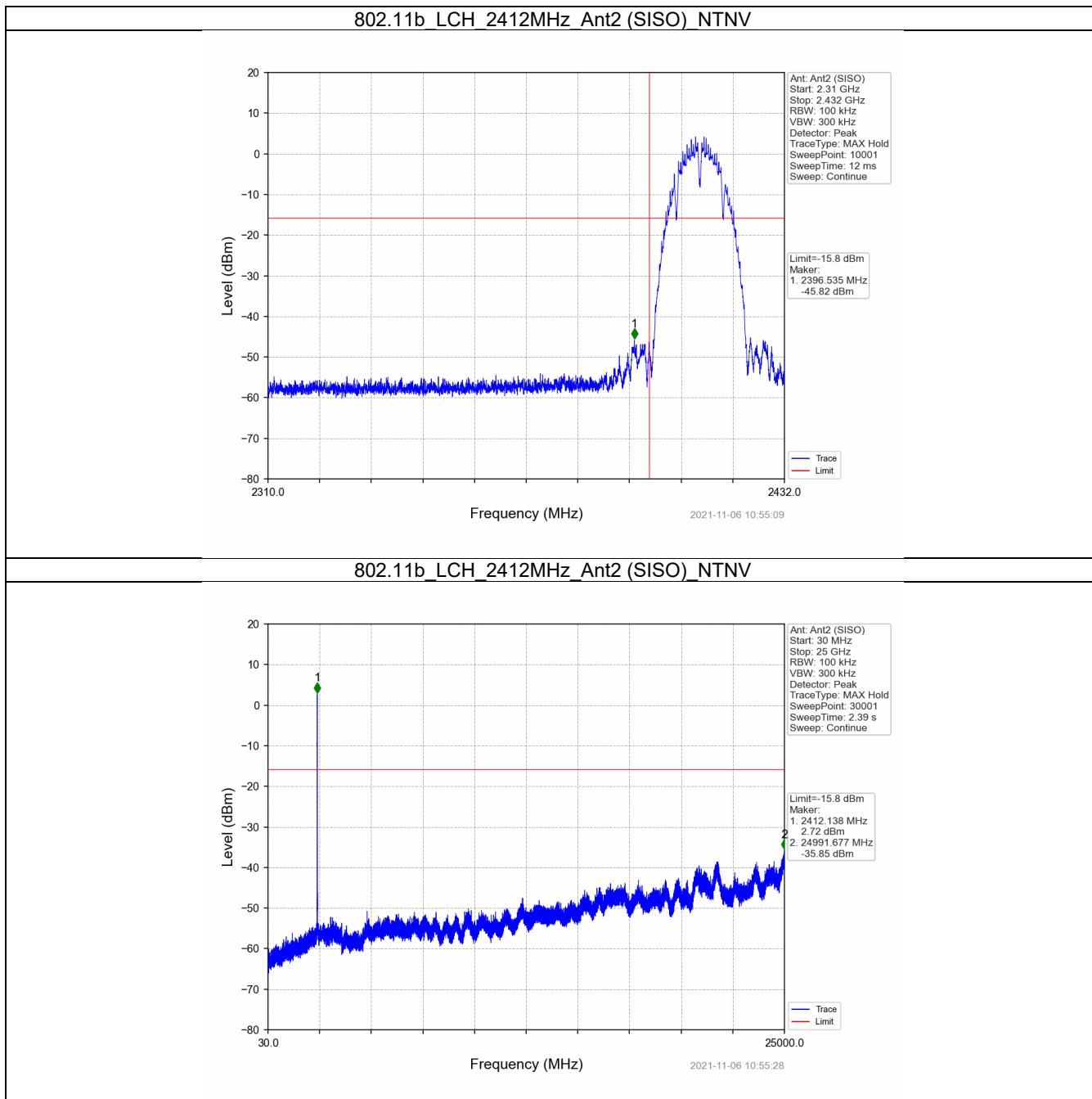
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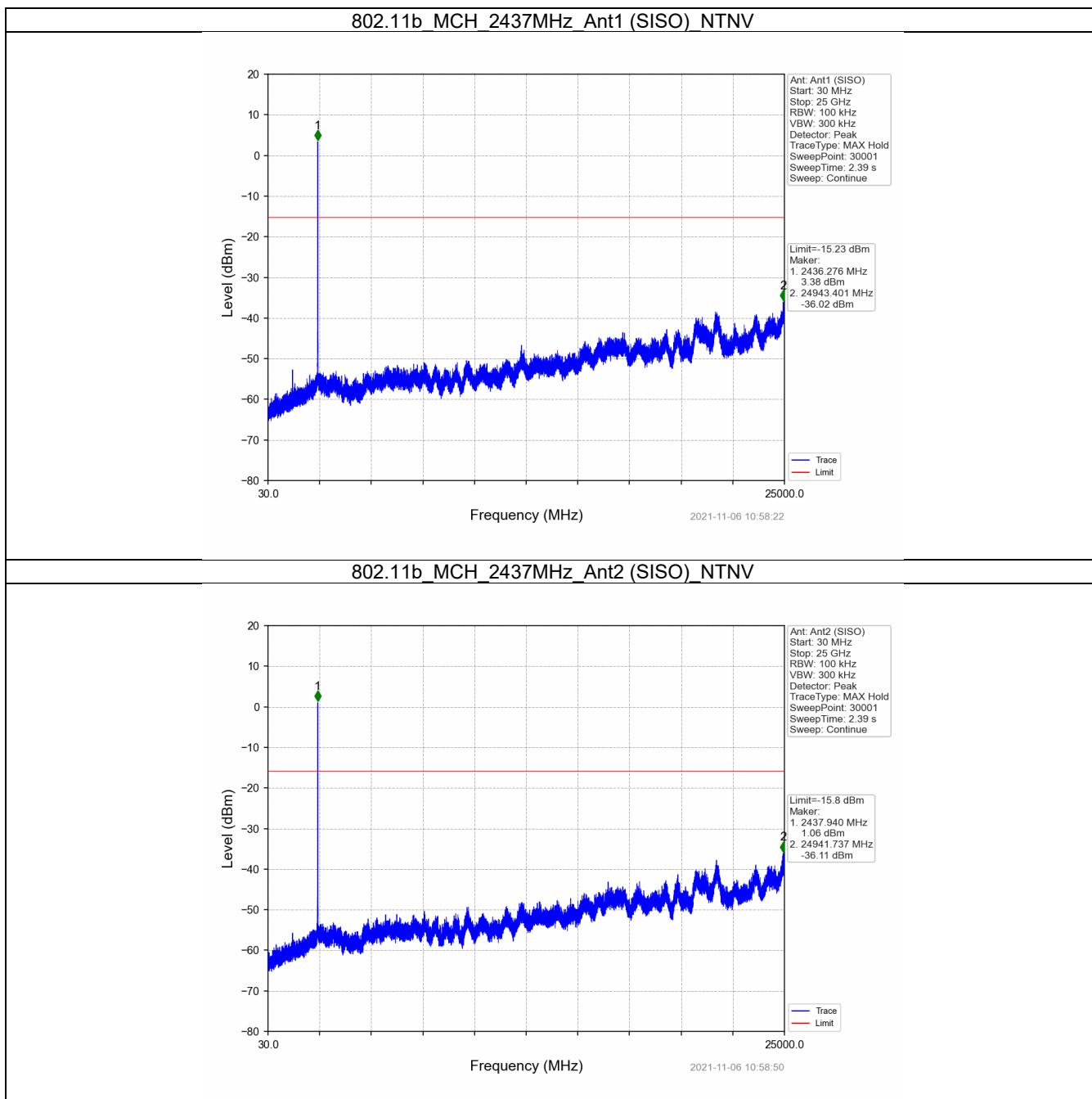
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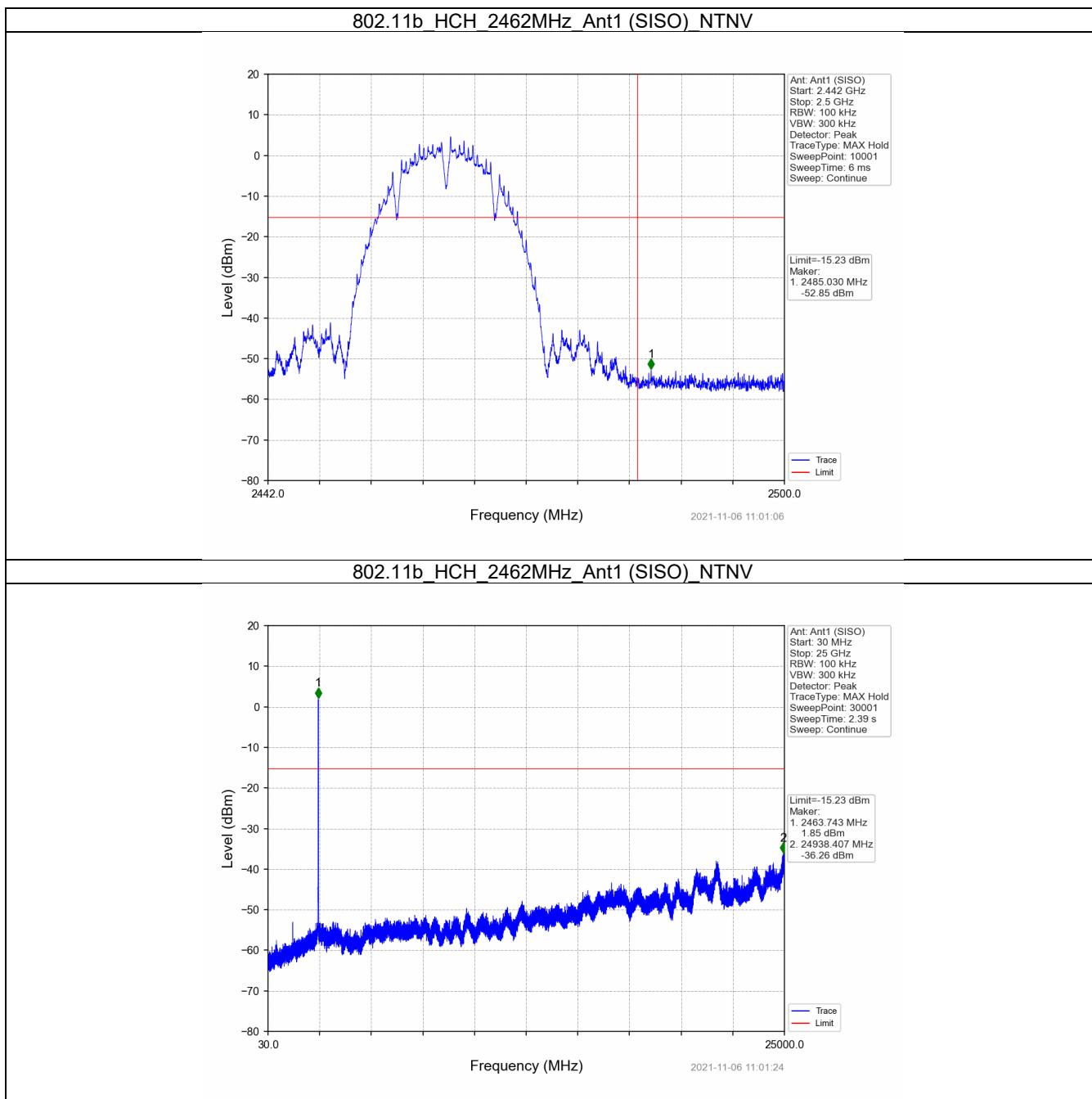
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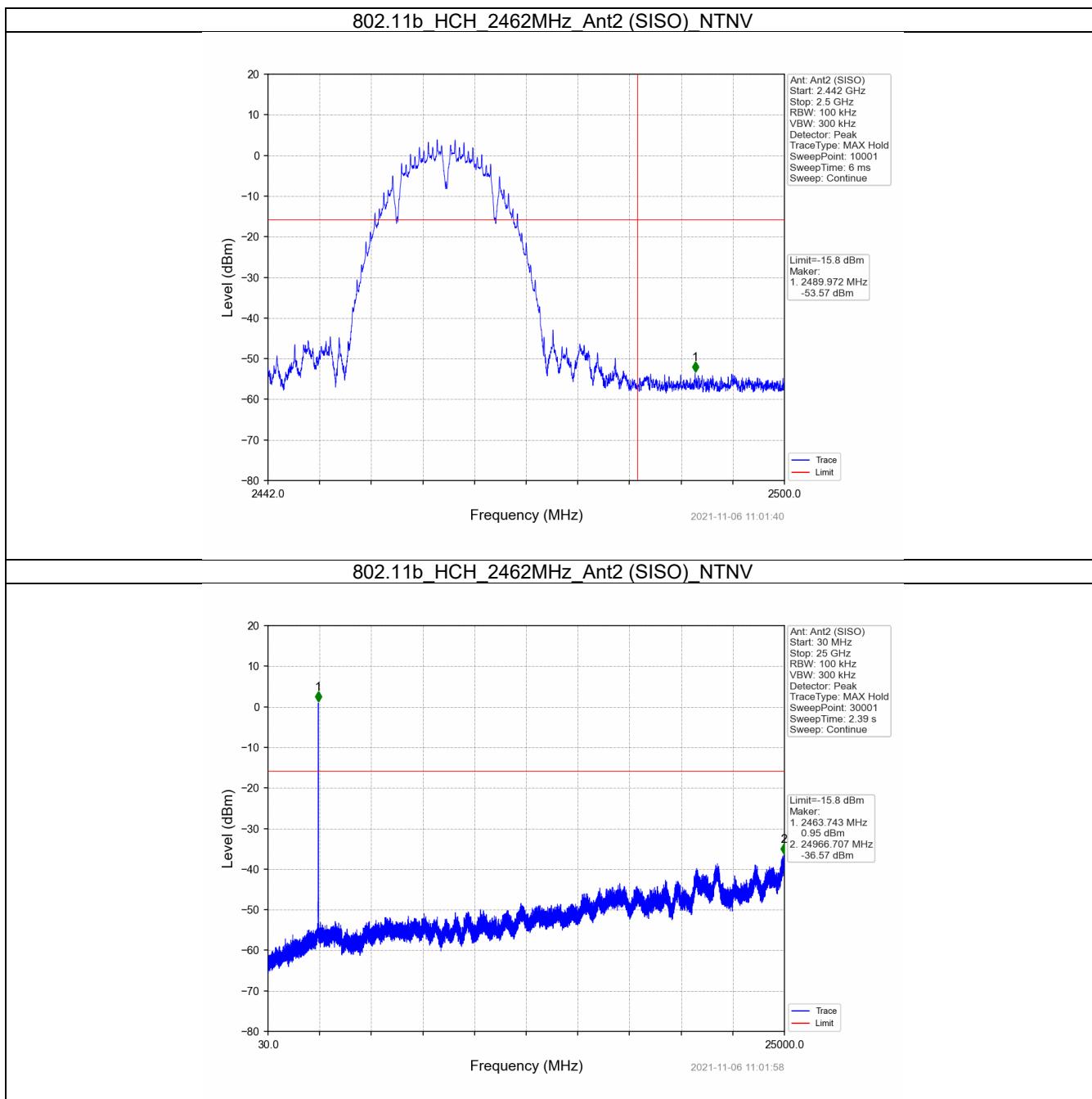
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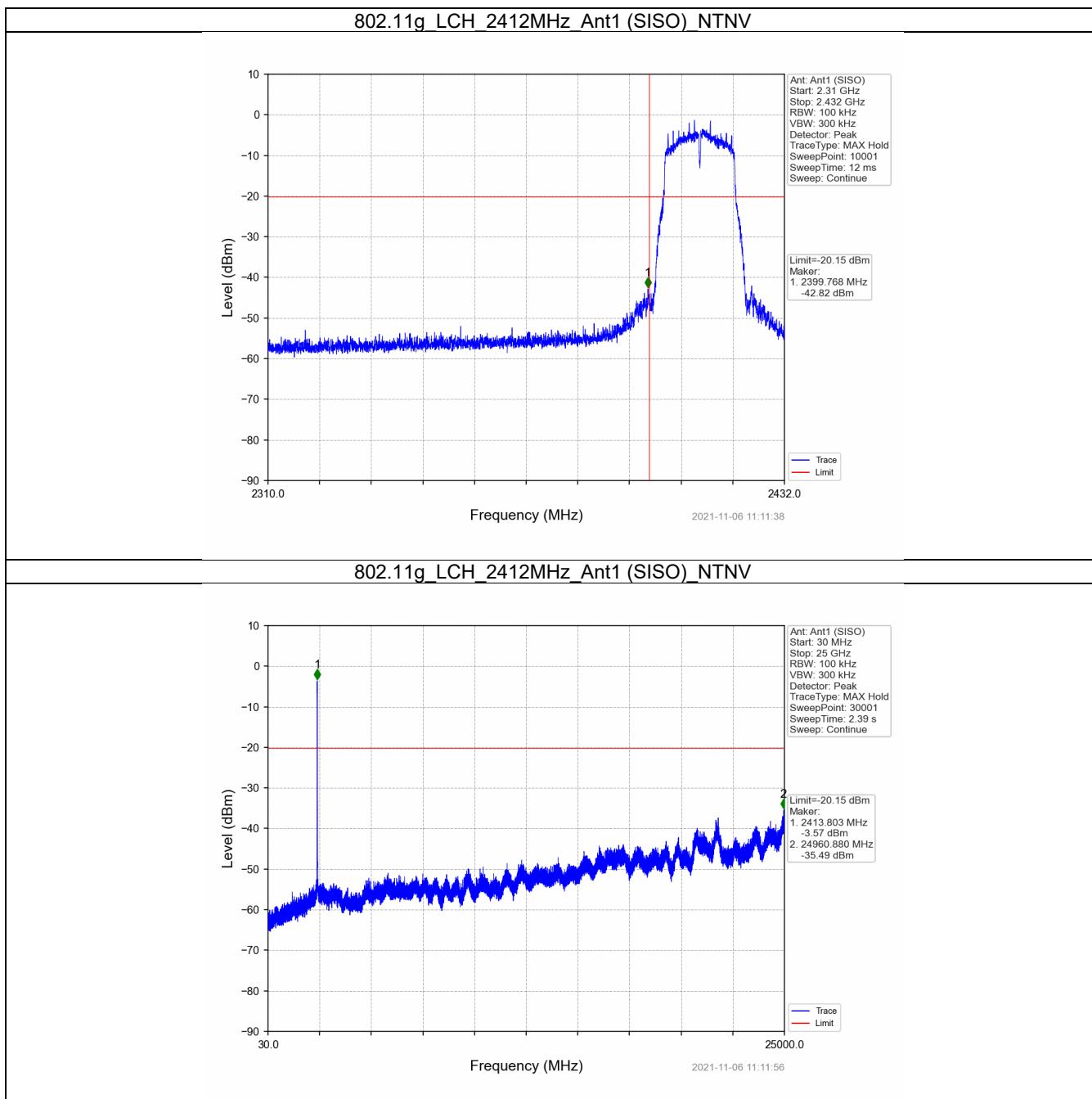
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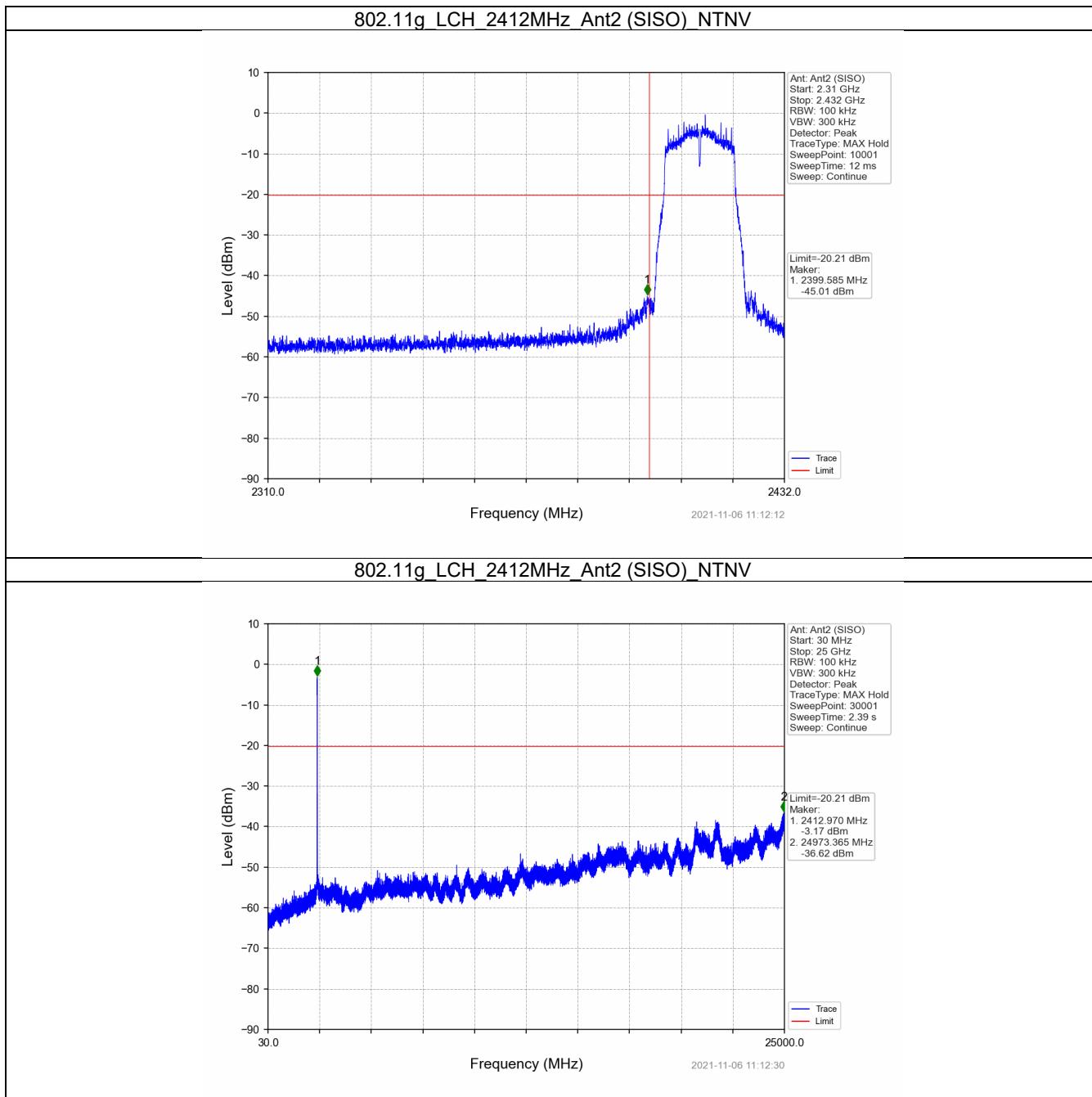


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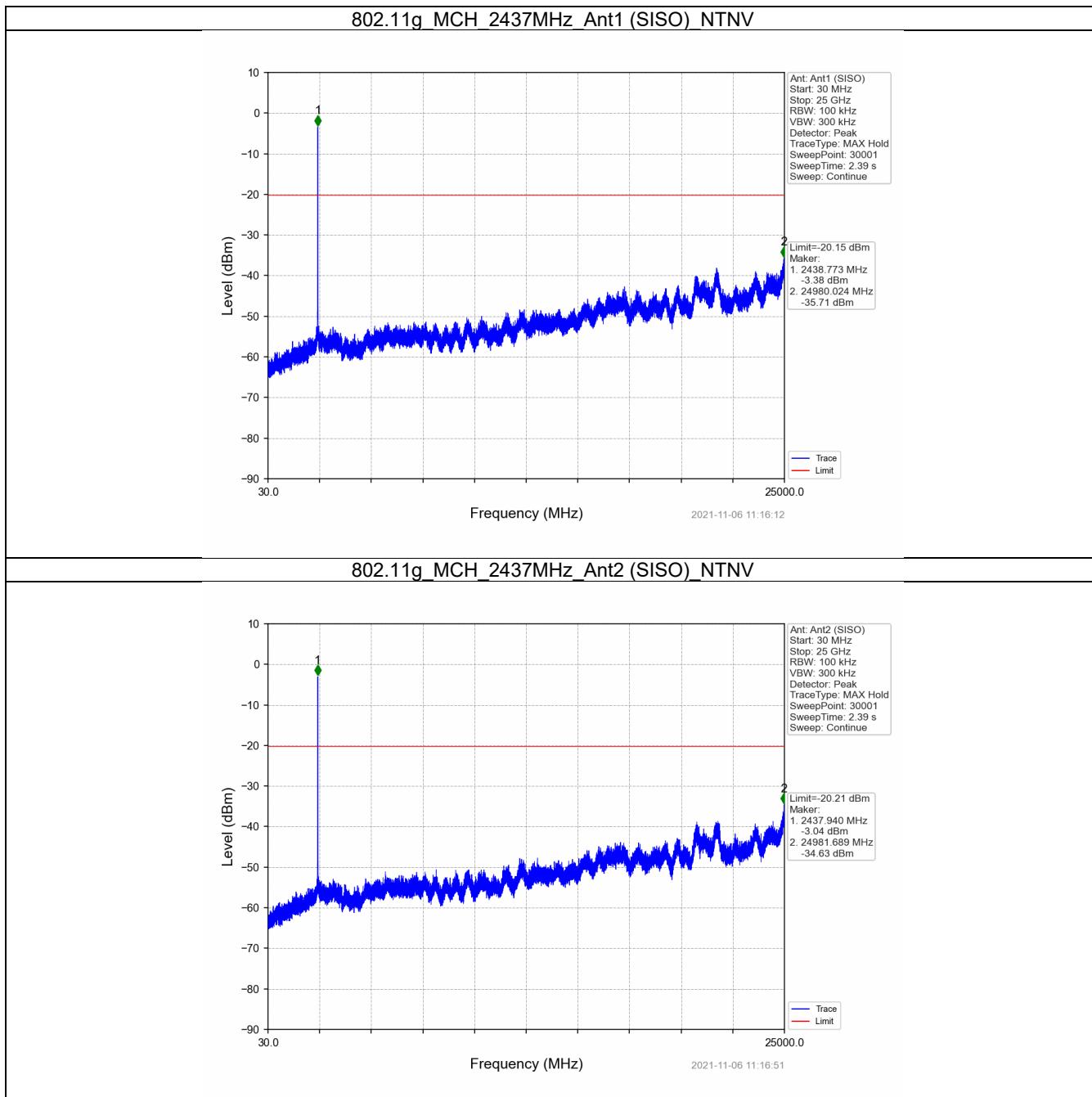
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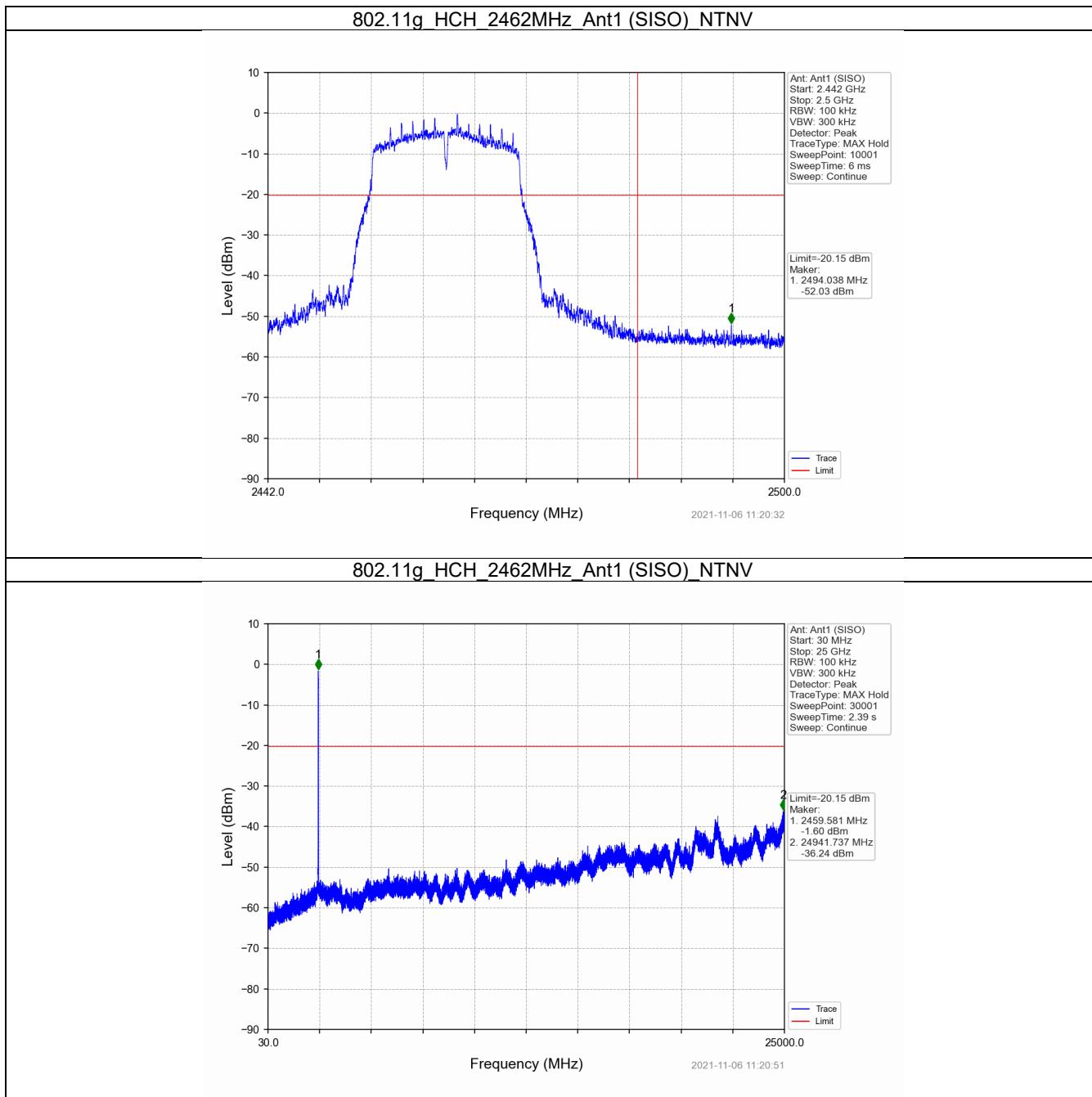
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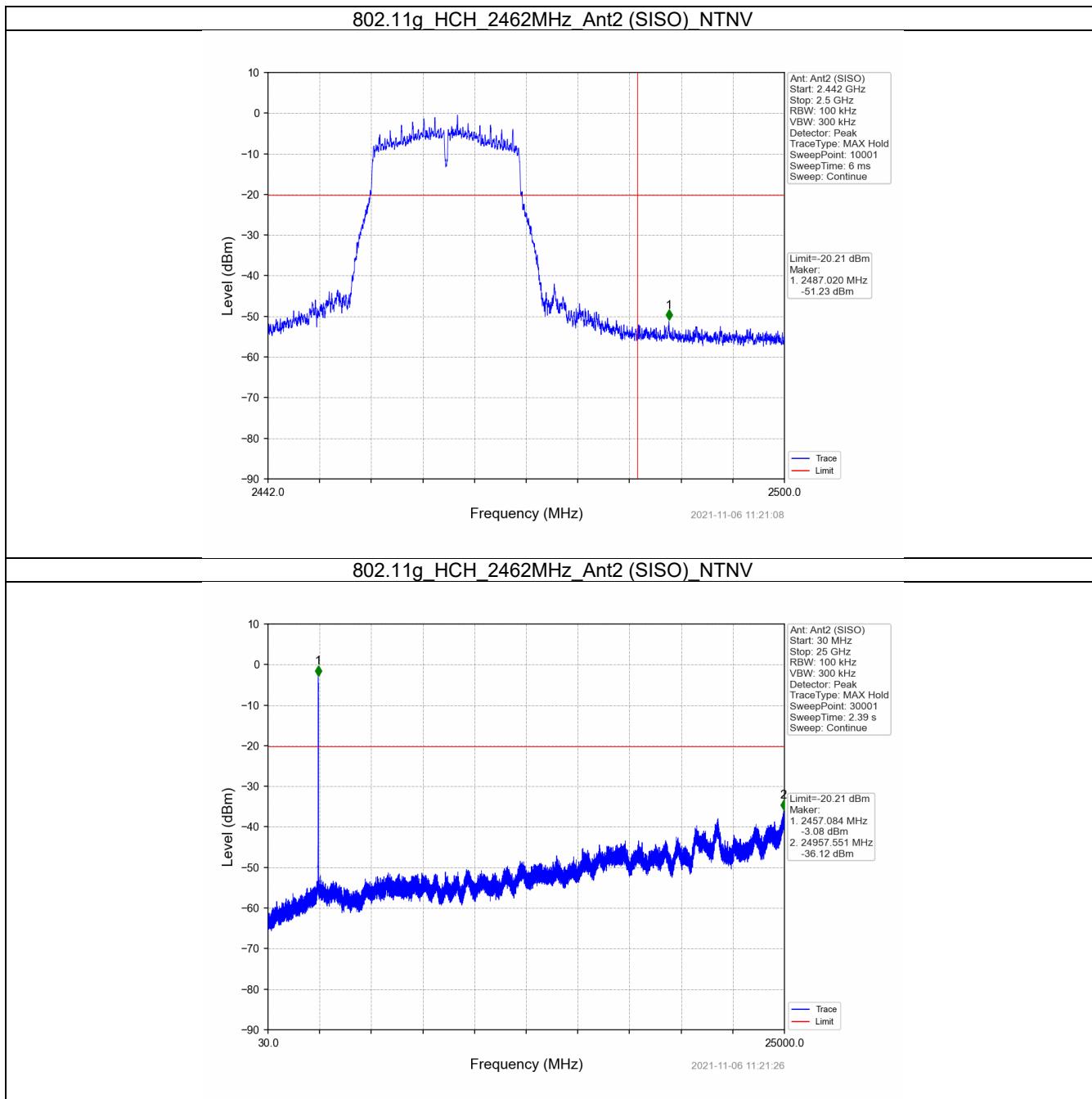
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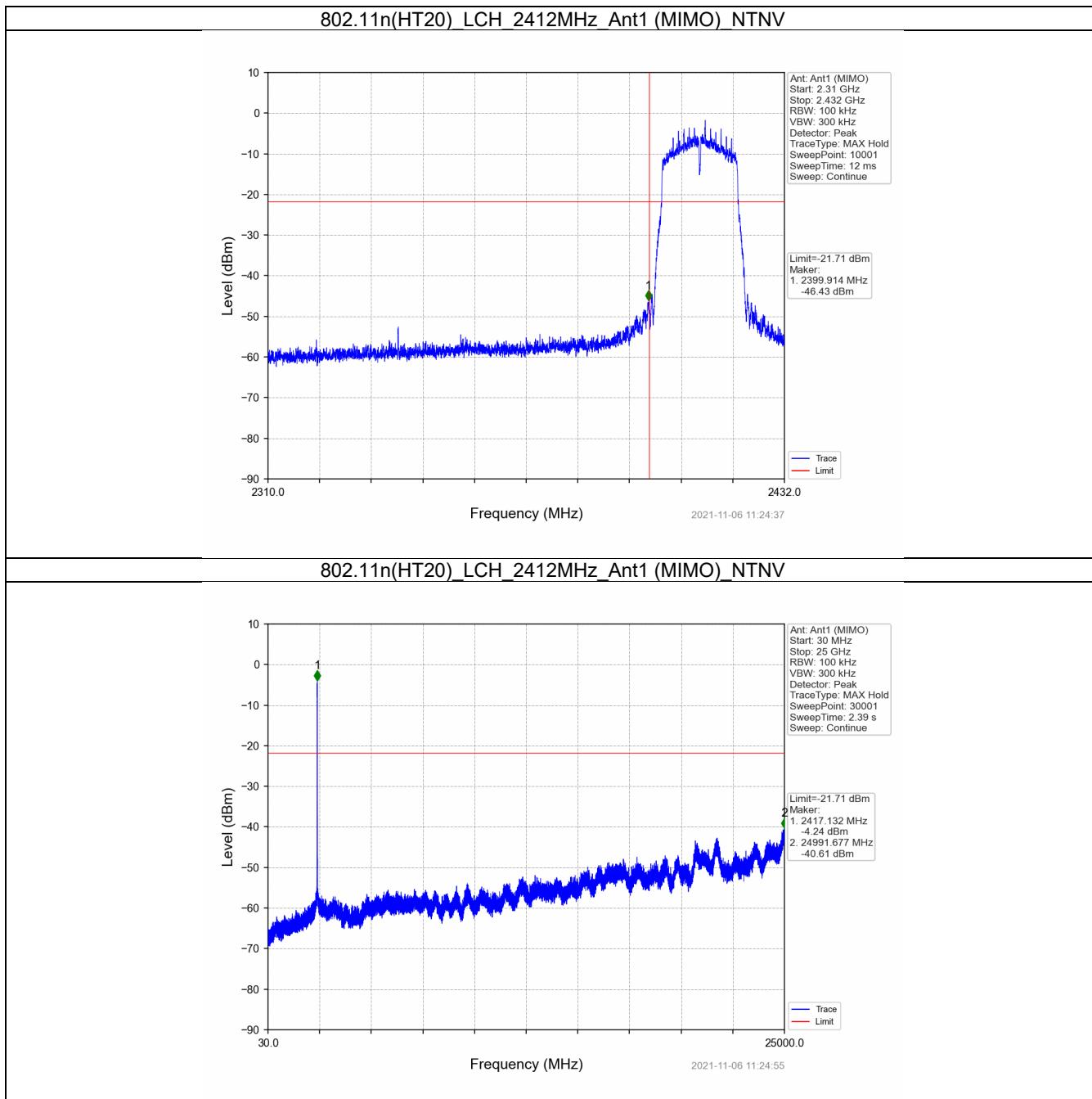
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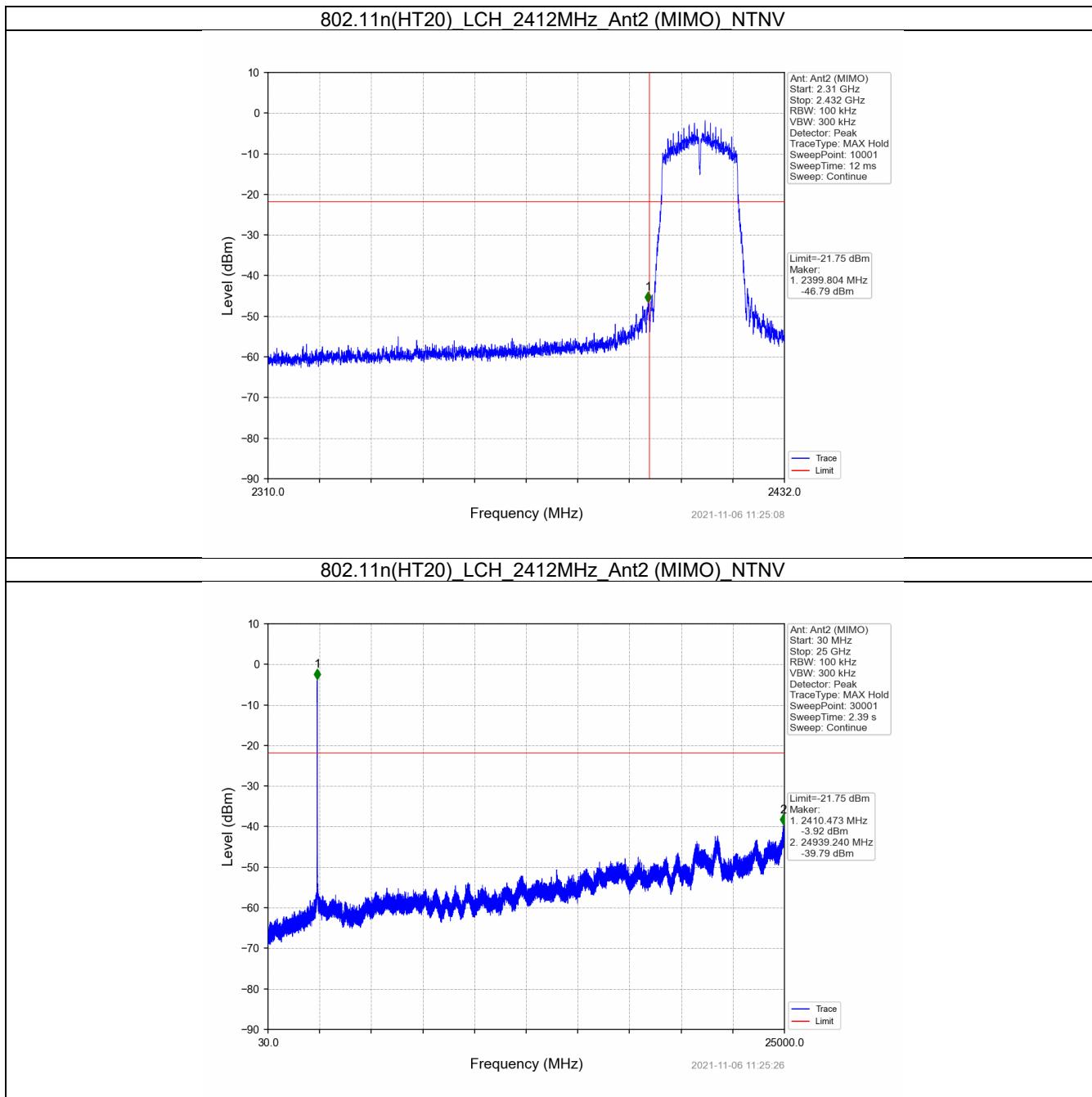
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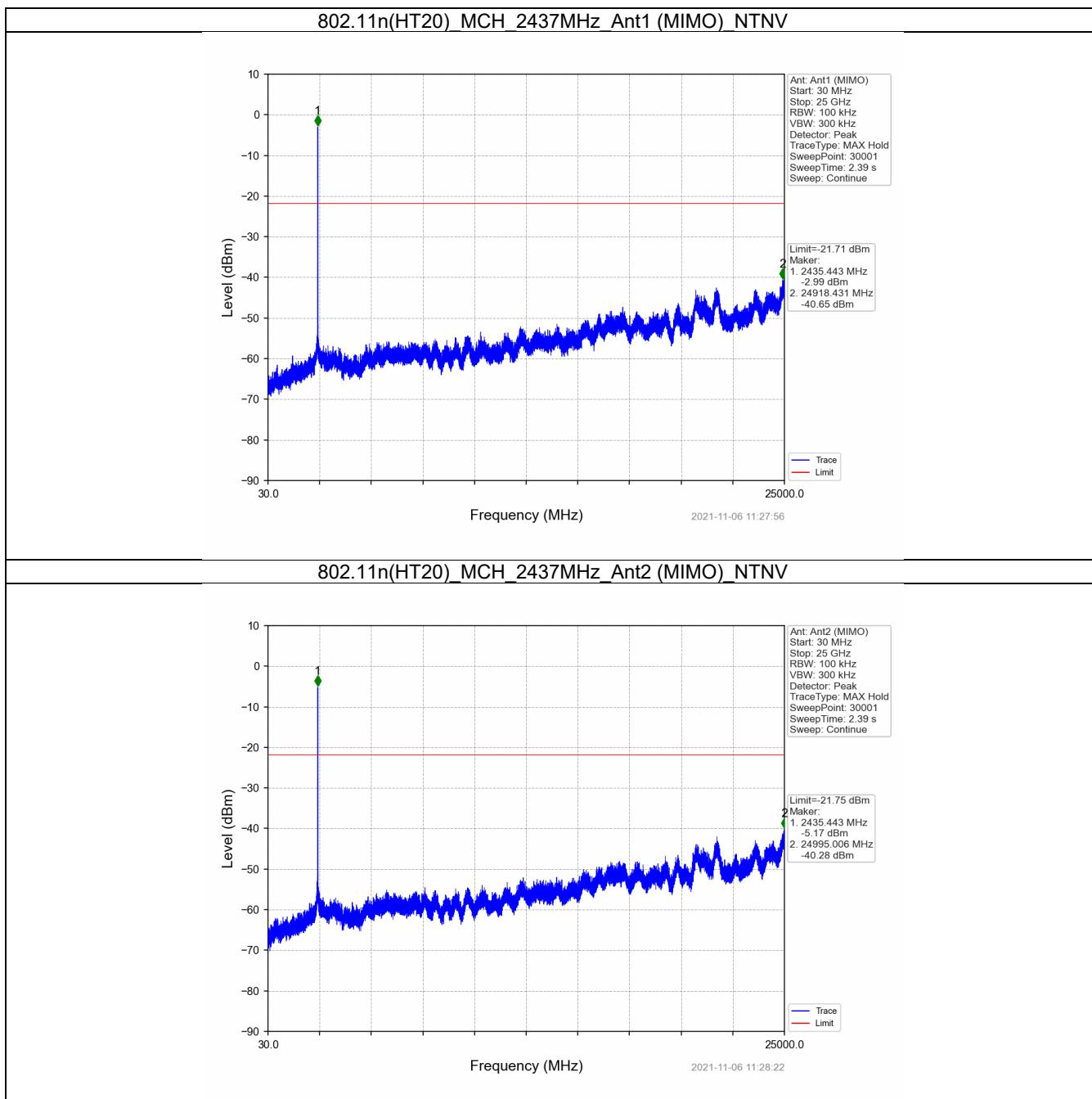
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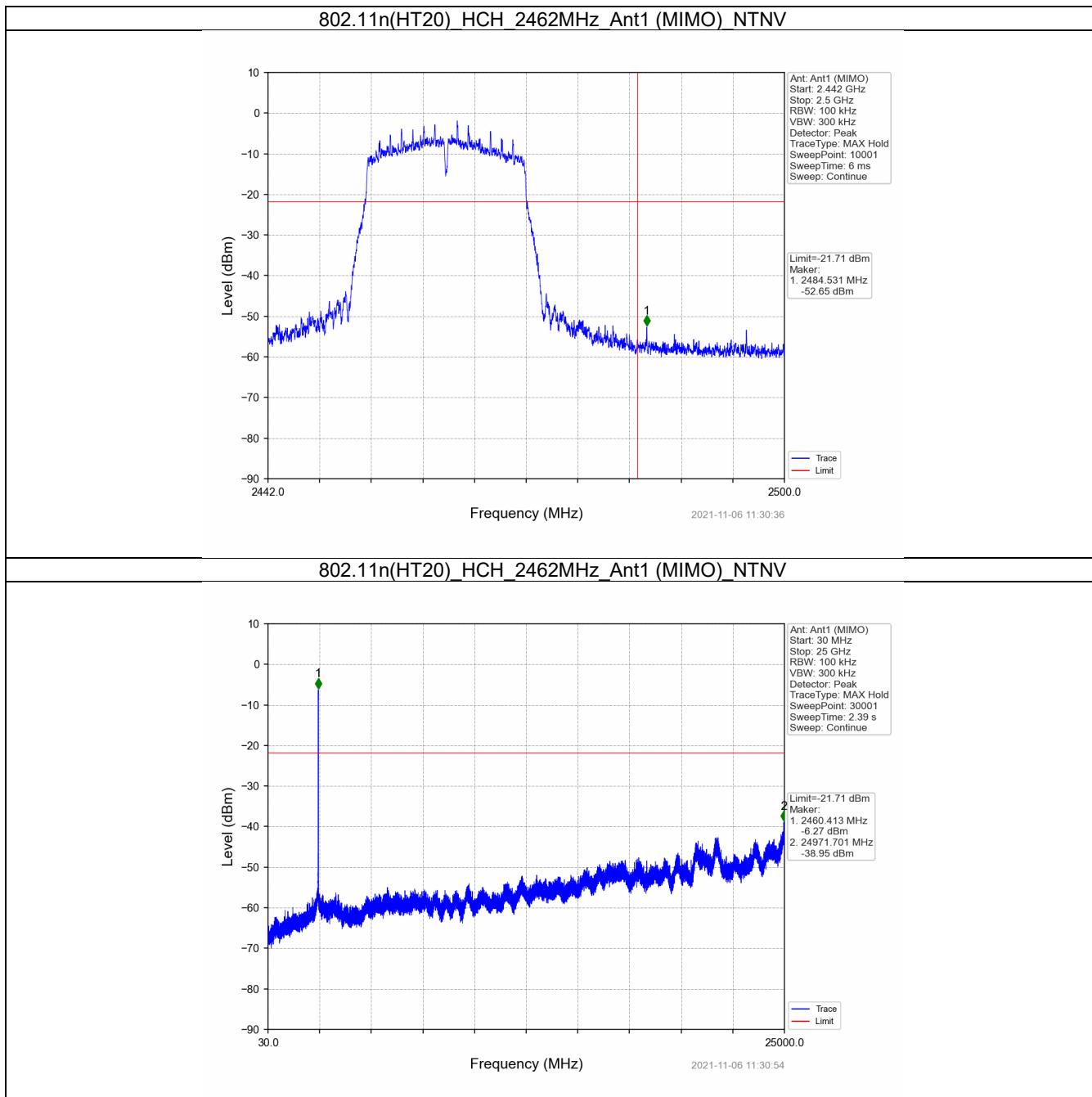
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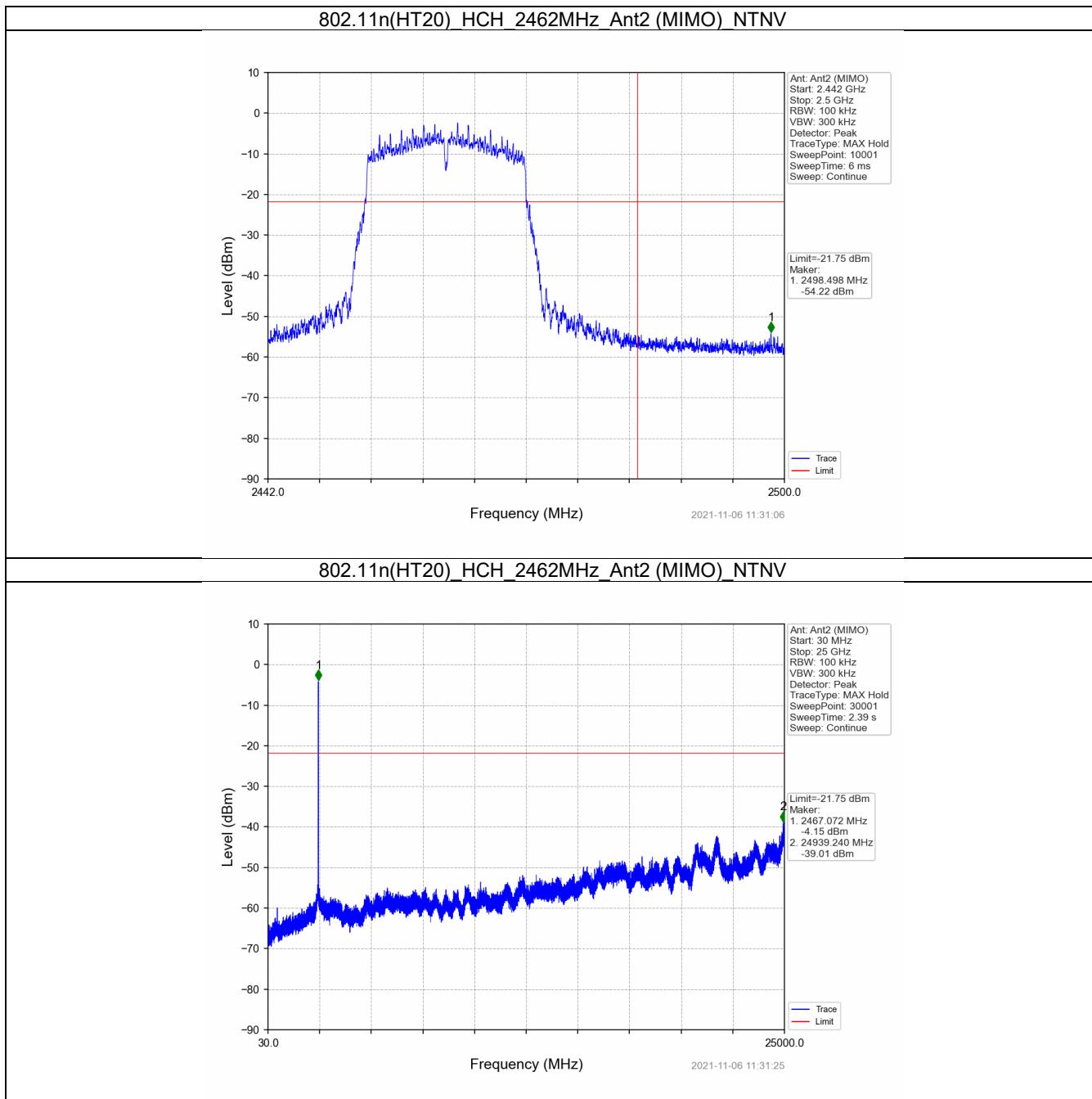
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