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Appendix for A SHEM210600582601

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1										
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)	
802.11b	SISO	2412	/	/	12.42	12.58	98.73	0.06	0.87	
		2437	/	/	12.42	12.59	98.65	0.06	0.95	
		2462	/	/	12.42	12.55	98.96	0.05	0.48	
	SISO	2412	/	/	2.06	2.23	92.35	0.35	5.09	
802.11g		2437	/	/	2.06	2.23	92.39	0.34	5.39	
		2462	/	/	2.06	2.23	92.39	0.34	4.98	
000 115	SISO	2412	/	/	1.92	2.09	91.78	0.37	5.54	
802.11n (HT20)		2437	/	/	1.92	2.09	91.87	0.37	5.90	
		2462	/	/	1.92	2.09	91.73	0.37	6.35	
Note1: Only for Report Use										



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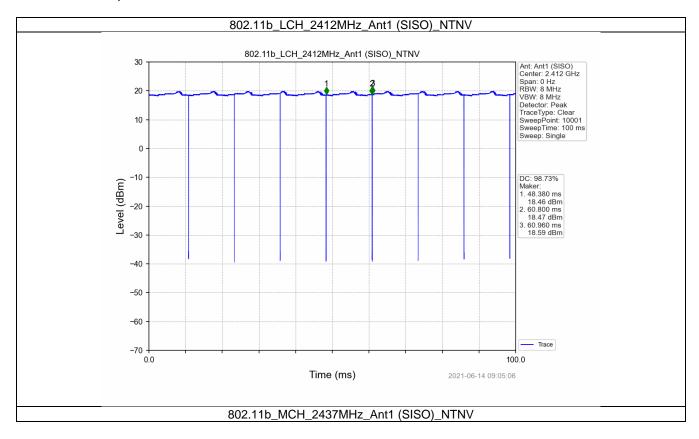
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i,China 201612 t(86-21)61915666 f(86-21)61915678 www.sgsgroup.com.cn 邮编: 201612 t(86-21)61915666 f(86-21)61915678 esgs.china@sgs.com



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1.1.2 Test Graph





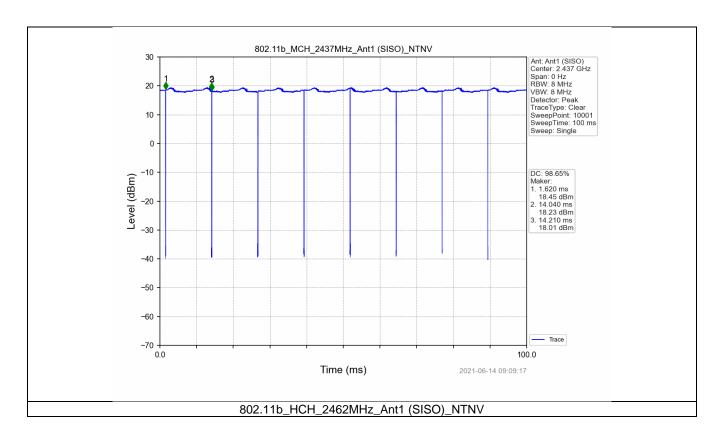
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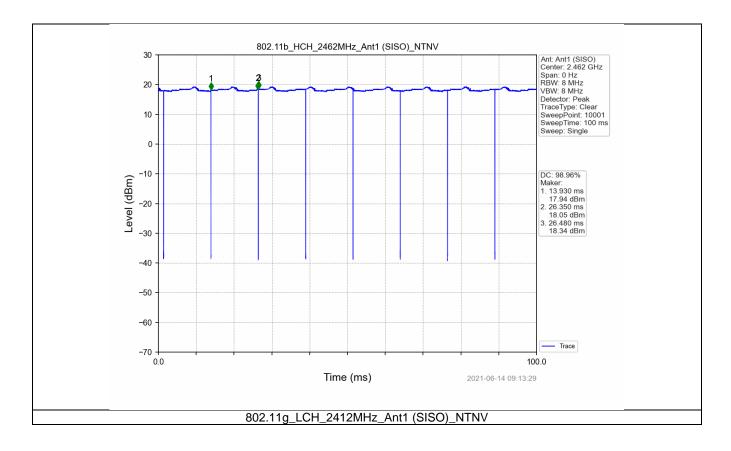
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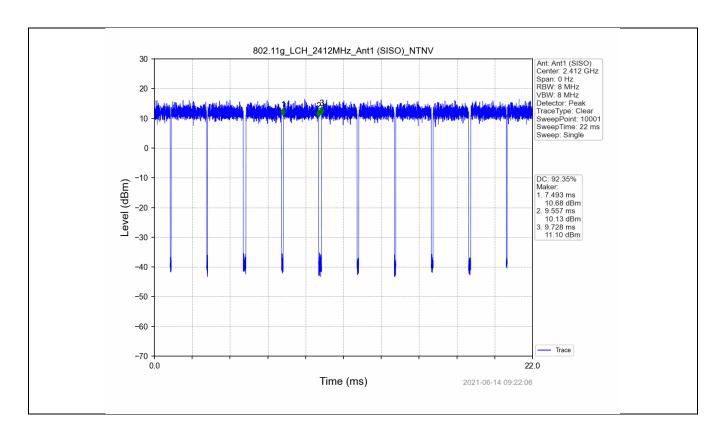
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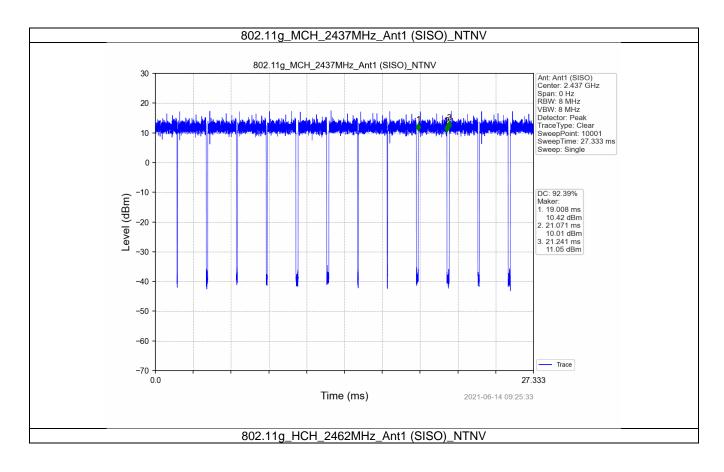
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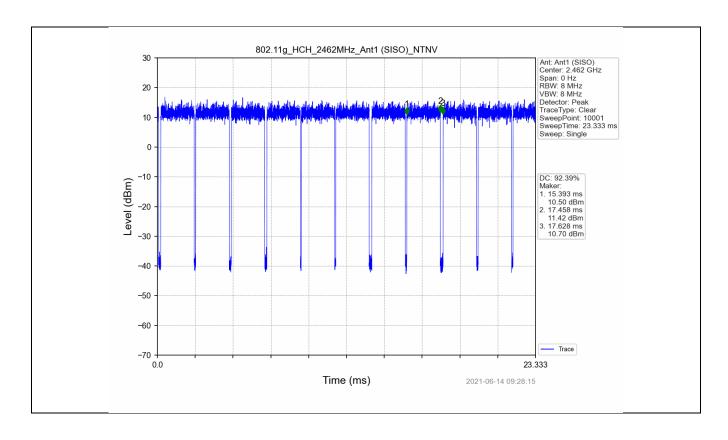
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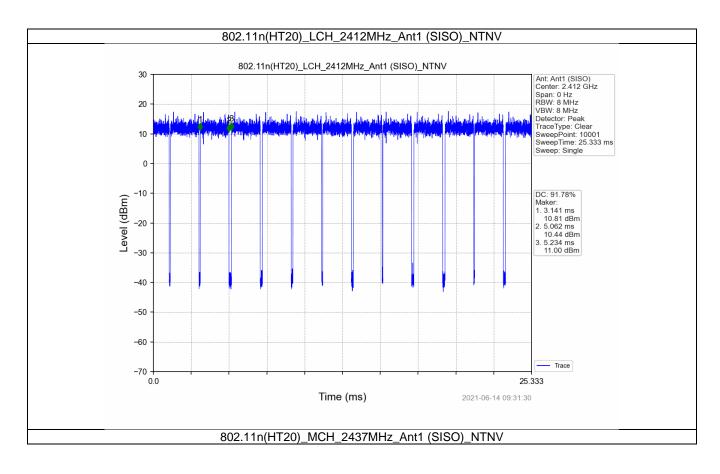
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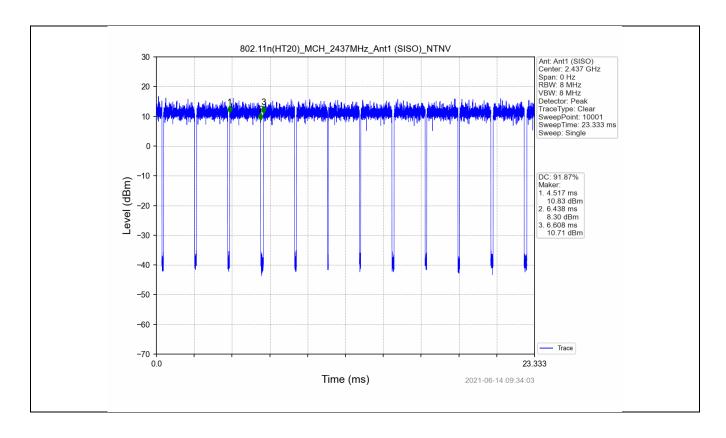
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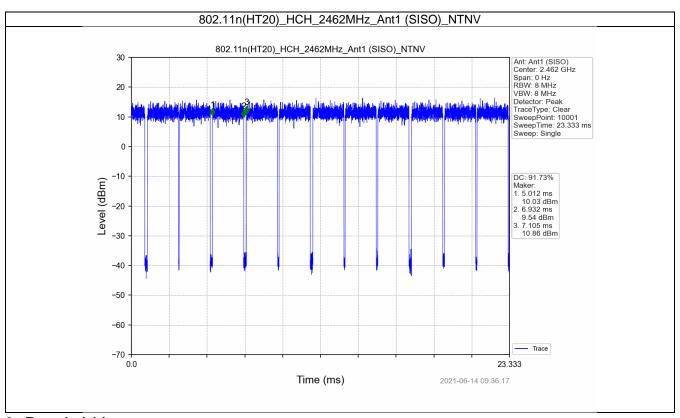
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency	y RU	RU	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
		(MHz)		Pos	Ant1	LITTIL (IVII IZ)	
	SISO	2412	/	/	13.799	/	Note1
802.11b		2437	/	/	13.875	/	Note1
		2462	/	/	13.889	/	Note1
	SISO	2412	/	/	17.760	/	Note1
802.11g		2437	/	/	17.701	/	Note1
		2462	/	/	17.759	/	Note1
802.11n		2412	/	/	18.798	/	Note1
	SISO	2437	/	/	18.602	/	Note1
(HT20)		2462	/	/	18.409	/	Note1
Note1: Only	for Rep	ort Use	•	•		•	



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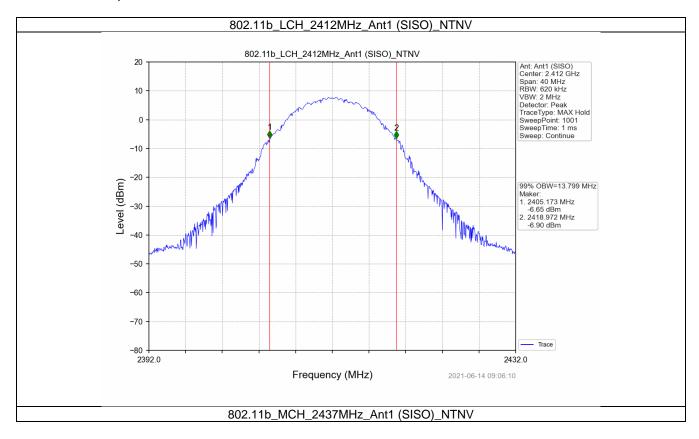
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2.1.2 Test Graph





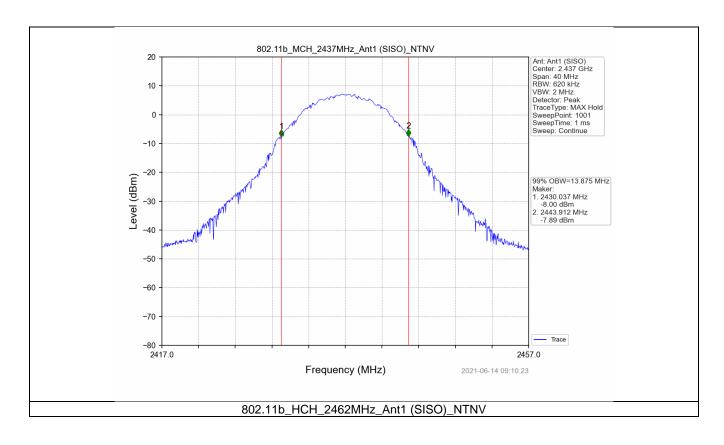
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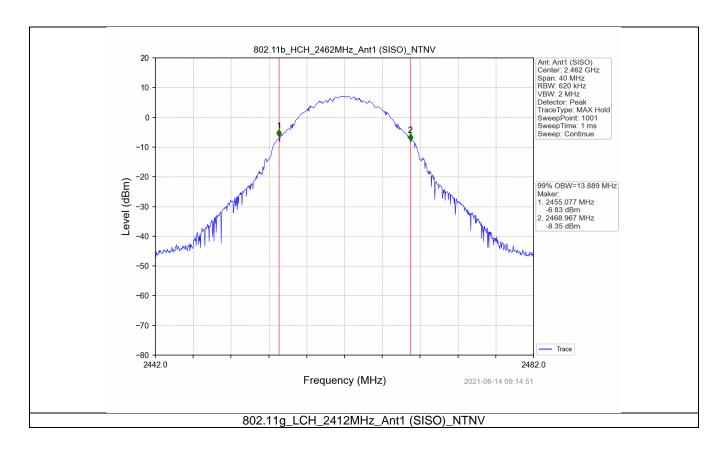
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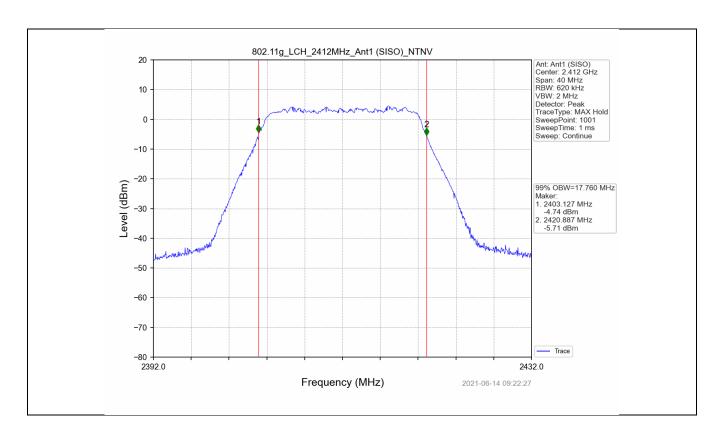
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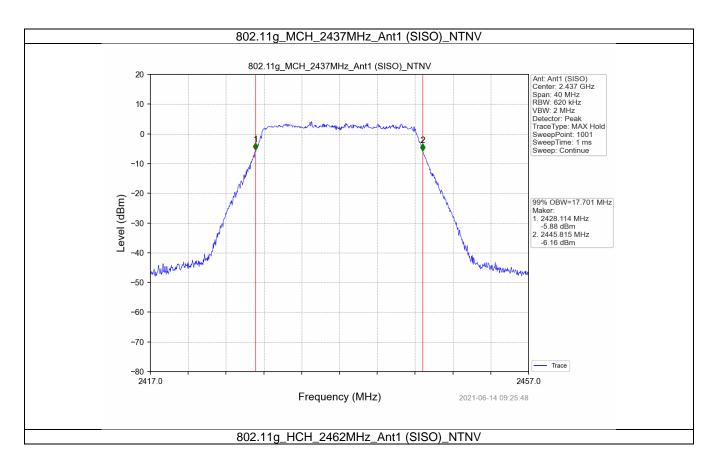
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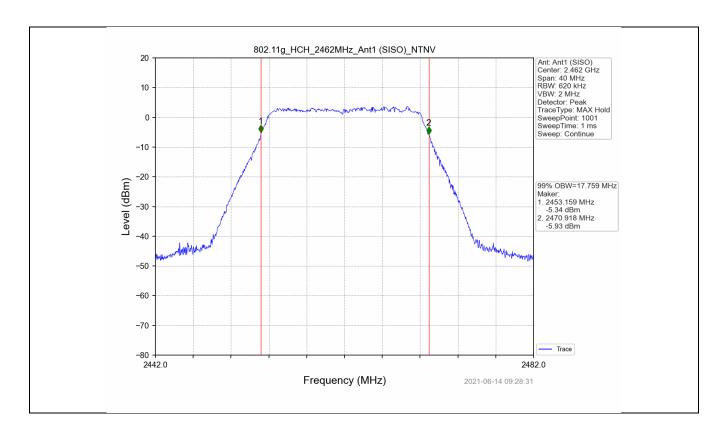
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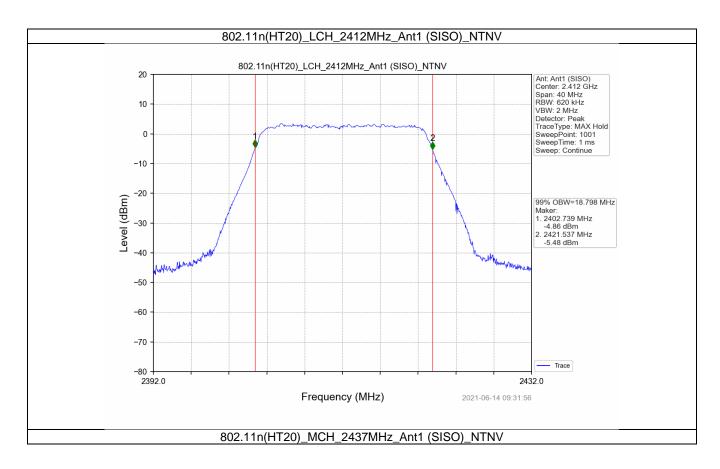
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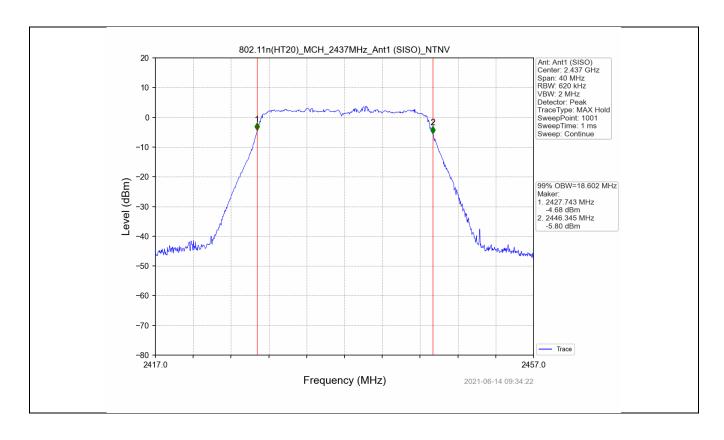
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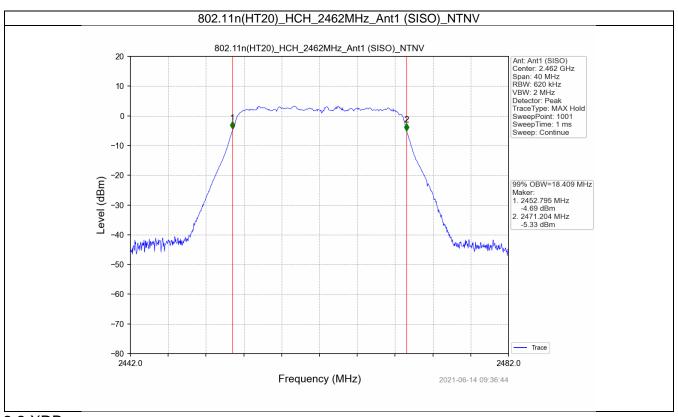
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2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz) Ant1	Limit (MHz)	Verdict
802.11b	SISO	2412	/	/	9.066	>=0.5	Pass
		2437	/	/	9.068	>=0.5	Pass
		2462	/	/	9.076	>=0.5	Pass
	SISO	2412	/	/	16.378	>=0.5	Pass
802.11g		2437	/	/	16.402	>=0.5	Pass
		2462	/	/	16.394	>=0.5	Pass
802.11n (HT20)		2412	/	/	17.560	>=0.5	Pass
	SISO	2437	/	/	17.597	>=0.5	Pass
		2462	/	/	17.591	>=0.5	Pass



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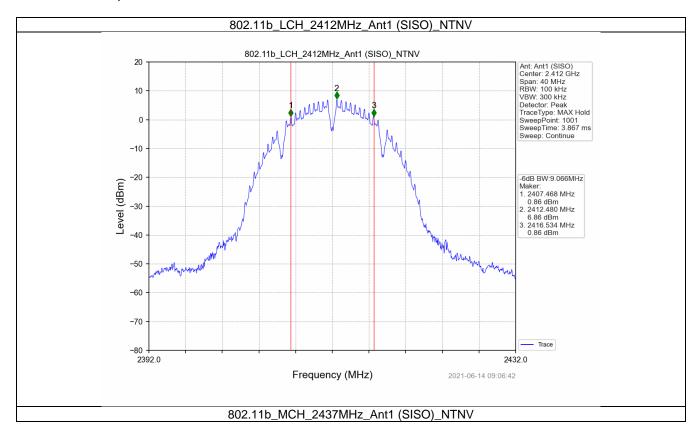
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2.2.2 Test Graph





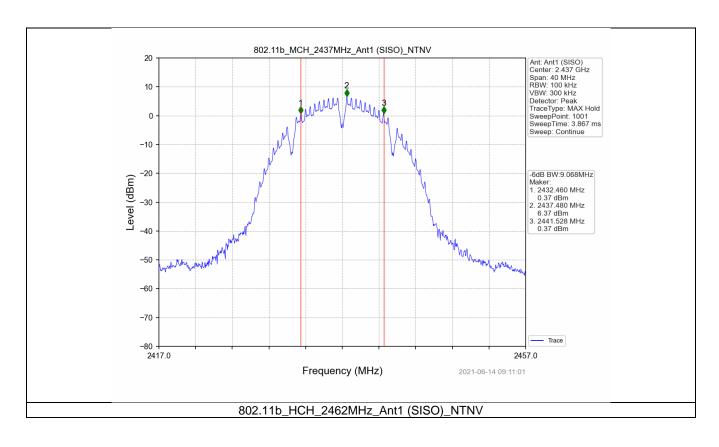
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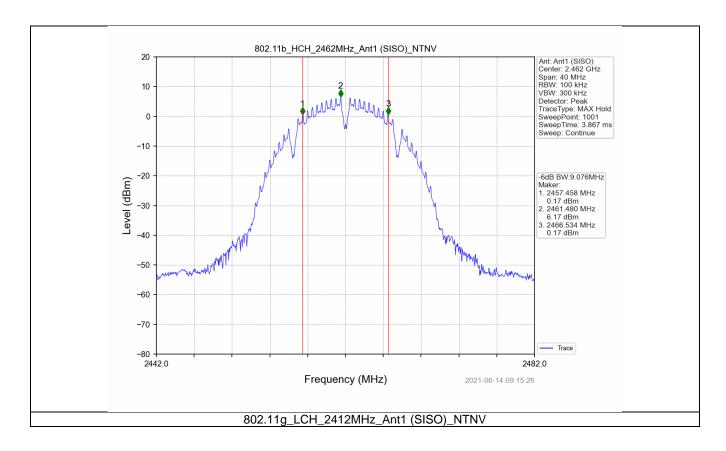
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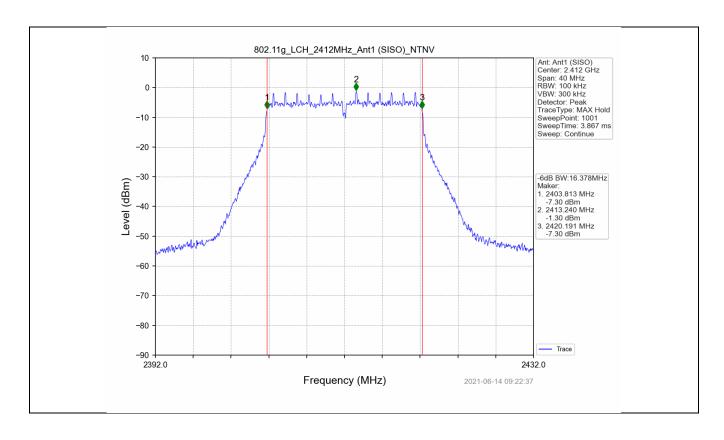
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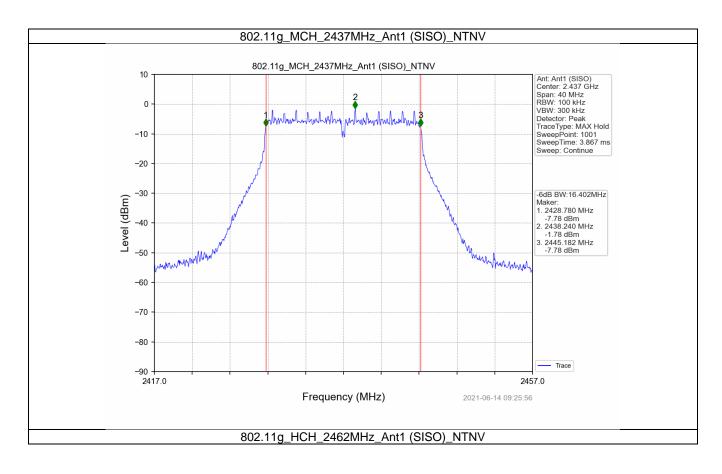
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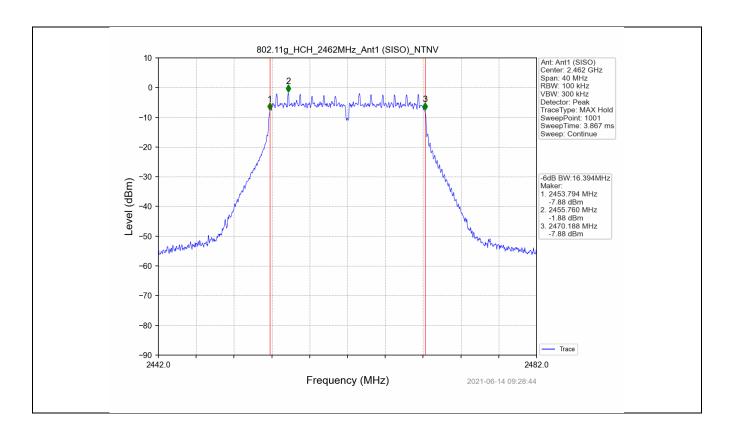
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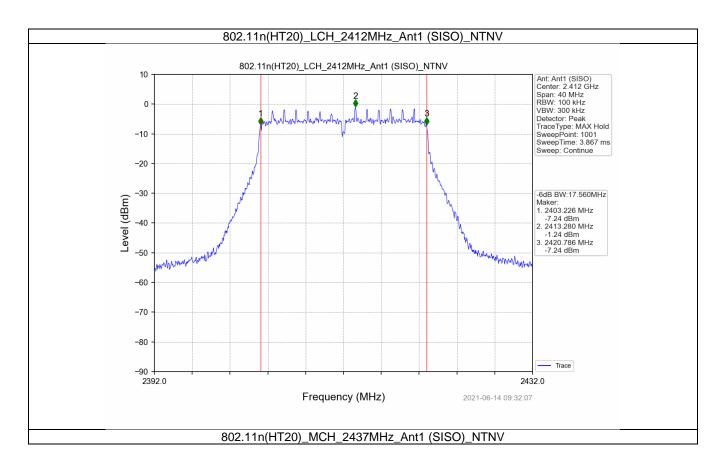
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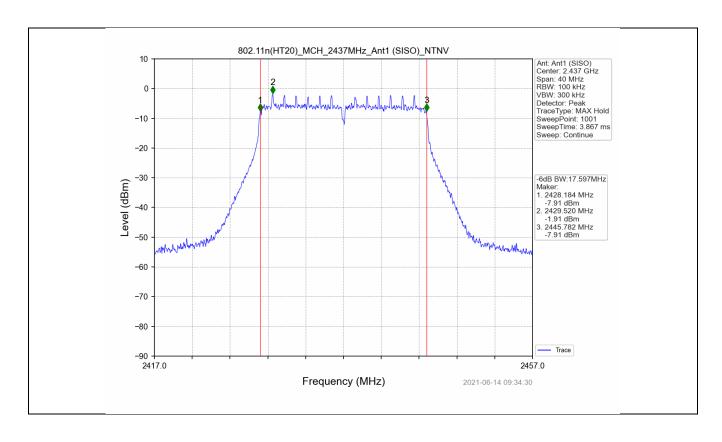
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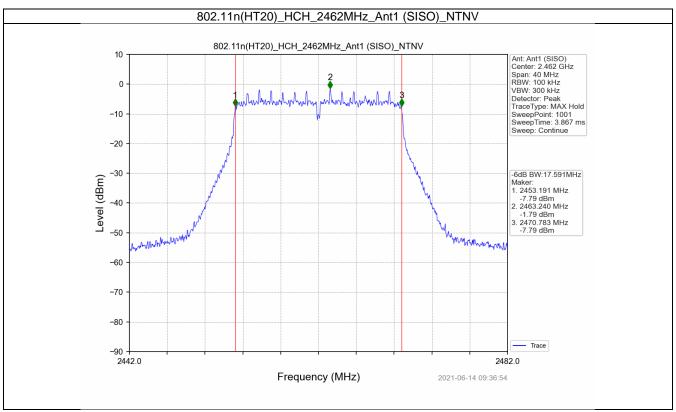
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)			Measured Peak Output Power (dBm) Ant1	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	17.61	<=30	Pass
		2437	/	/	17.15	<=30	Pass
		2462	/	/	17.05	<=30	Pass
	SISO	2412	/	/	17.69	<=30	Pass
802.11g		2437	/	/	17.23	<=30	Pass
		2462	/	/	17.14	<=30	Pass
000 44 =		2412	/	/	17.55	<=30	Pass
802.11n (HT20)	SISO	2437	/	/	17.16	<=30	Pass
(11120)		2462	/	/	17.07	<=30	Pass
Note1: Ante	nna Gai	n: 1: 2.6dBi;	•	•			



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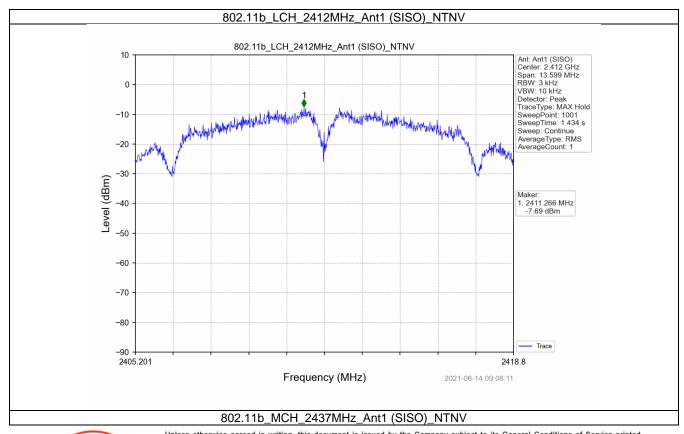
4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

	Frequency		RU	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Type	(MHz)		Pos	Ant1	LIIIII (UDIII/SKI IZ)	
	2412	/	/	-7.69	<=8	Pass
SISO	2437	/	/	-7.53	<=8	Pass
	2462	/	/	-8.08	<=8	Pass
	2412	/	/	-14.81	<=8	Pass
SISO	2437	/	/	-14.84	<=8	Pass
	2462	/	/	-15.33	<=8	Pass
SISO	2412	/	/	-14.85	<=8	Pass
	2437	/	/	-16.28	<=8	Pass
	2462	/	/	-15.93	<=8	Pass
S	SISO SISO	SISO 2437 2462 2412 SISO 2437 2462 2412 SISO 2437	SISO 2437 / 2462 / 2412 / SISO 2437 / 2462 / SISO 2437 / 2462 / 2412 / 2462 / 2	SISO 2437 / / 2462 / / SISO 2437 / / 2412 / / 2462 / / 2412 / / SISO 2437 / / 2462 / / 2462 / /	SISO 2437 / / -7.53 2462 / / -8.08 2412 / / -14.81 SISO 2437 / / -14.84 2462 / / -15.33 2412 / / -14.85 SISO 2437 / / -16.28 2462 / / -15.93	SISO 2437 / / -7.53 <=8 2462 / / -8.08 <=8 2412 / / -14.81 <=8 SISO 2437 / / -14.84 <=8 2462 / / -15.33 <=8 2412 / / -15.33 <=8 2412 / / -15.33 <=8 2412 / / -15.33 <=8 2412 / / -15.33 <=8 2412 / / -15.33 <=8 2412 / / -15.93 <=8

4.1.2 Test Graph



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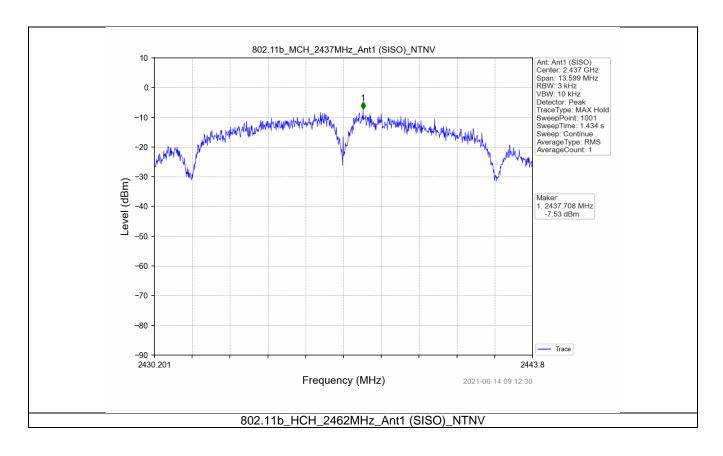
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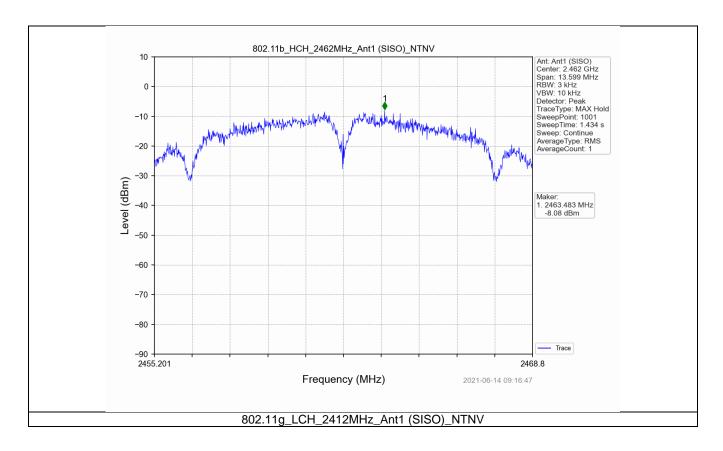
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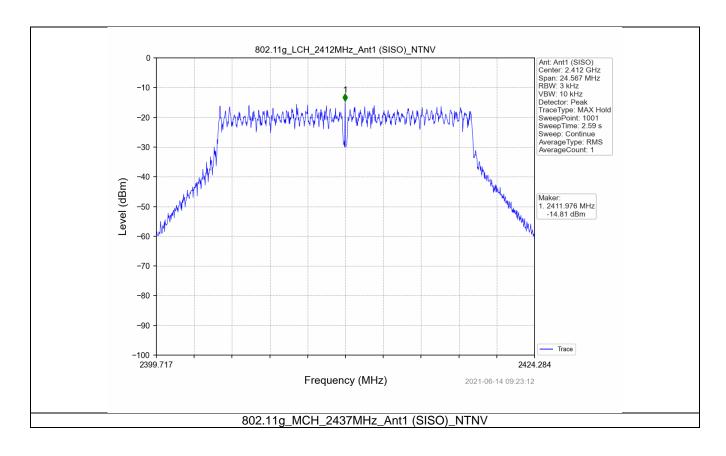
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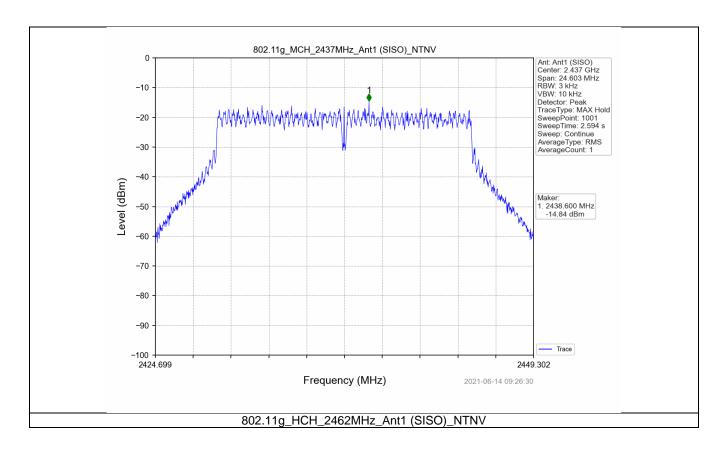
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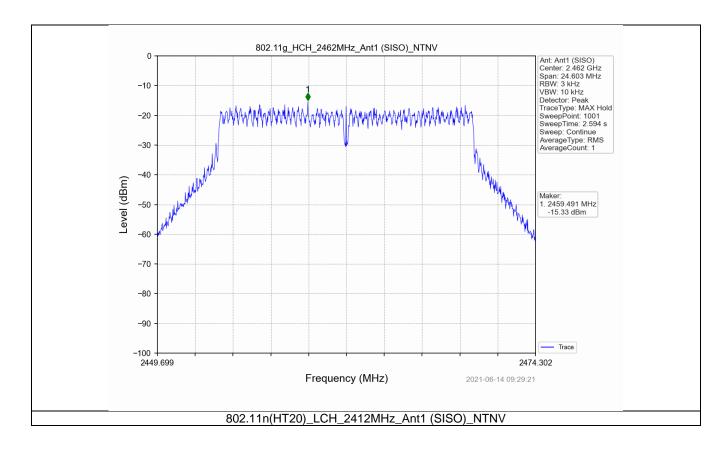
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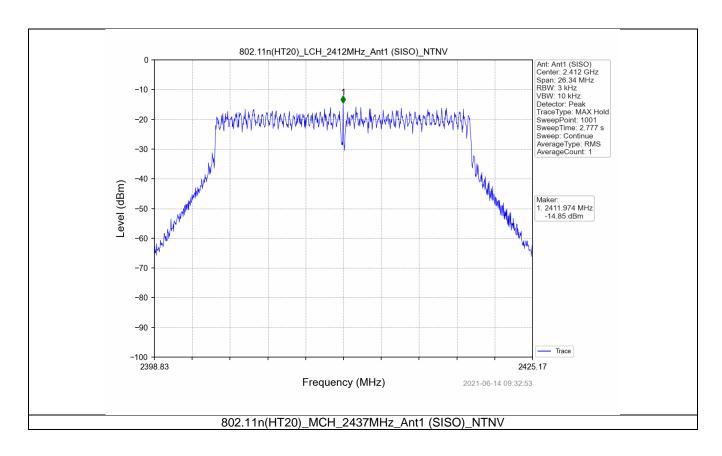
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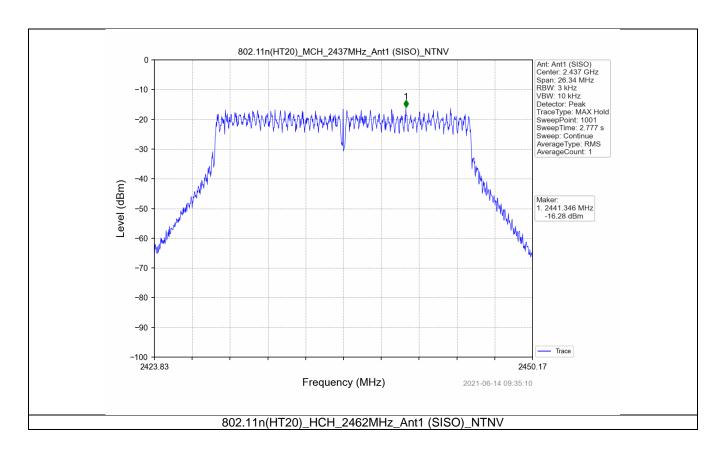
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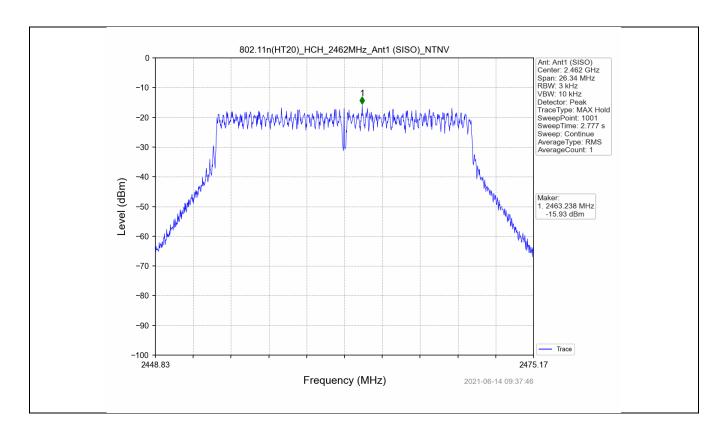
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	6.75	/	/
		2437	/	/	1	6.19	/	/
		2462	/	/	1	5.89	/	/
802.11g	SISO	2412	/	/	1	-1.63	/	/
		2437	/	/	1	-1.84	/	/
		2462	/	/	1	-2.28	/	/
802.11n (HT20)	SISO	2412	/	/	1	-1.31	/	/
		2437	/	/	1	-1.66	/	/
		2462	/	/	1	-1.82	/	/

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: Only for Report Use

5.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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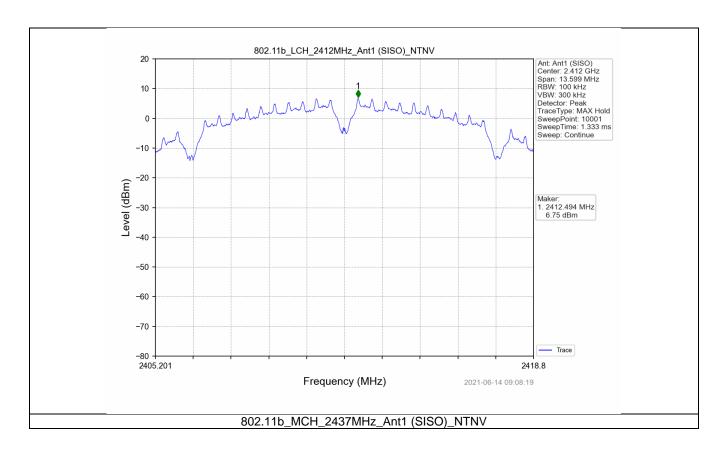
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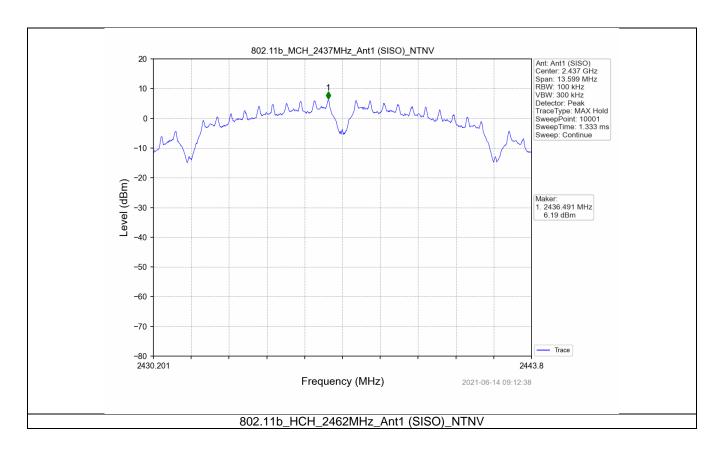
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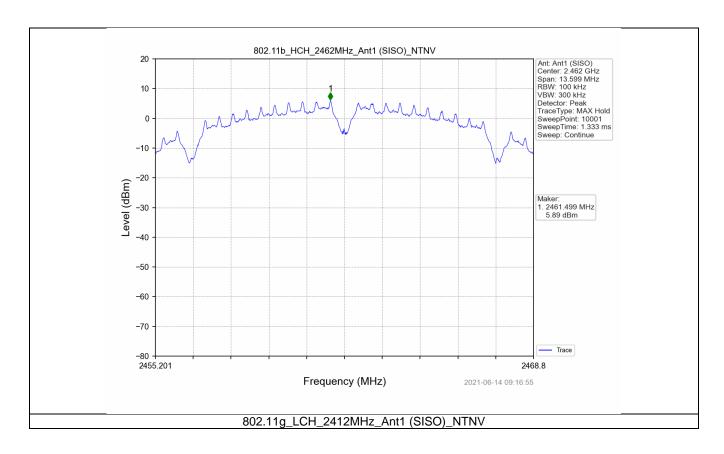
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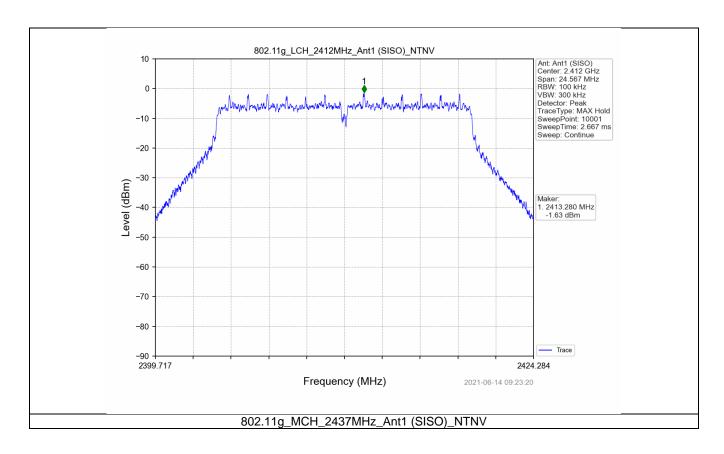
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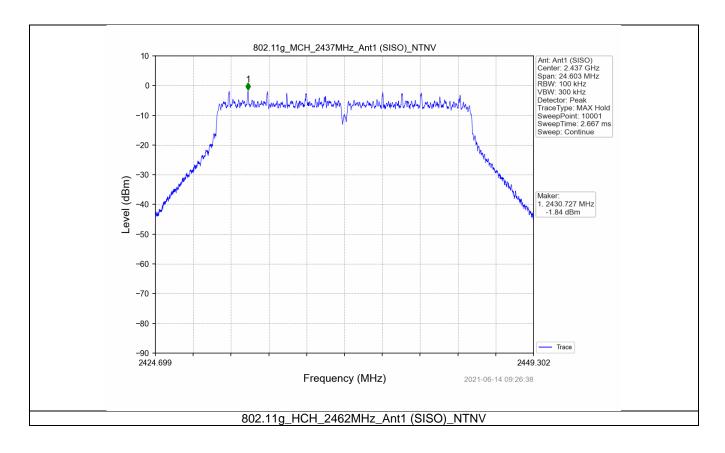
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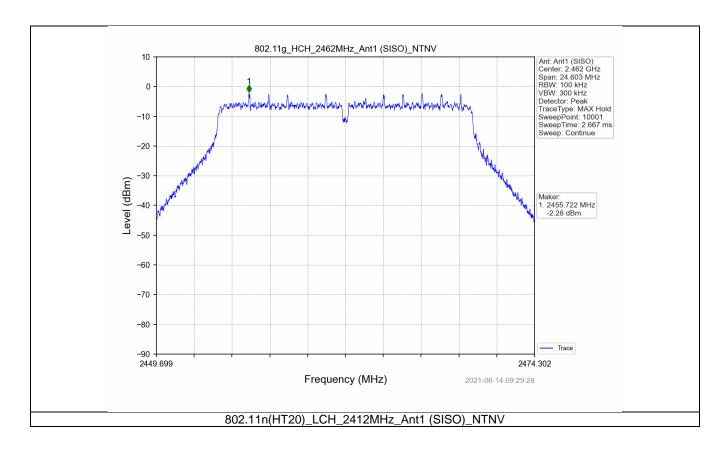
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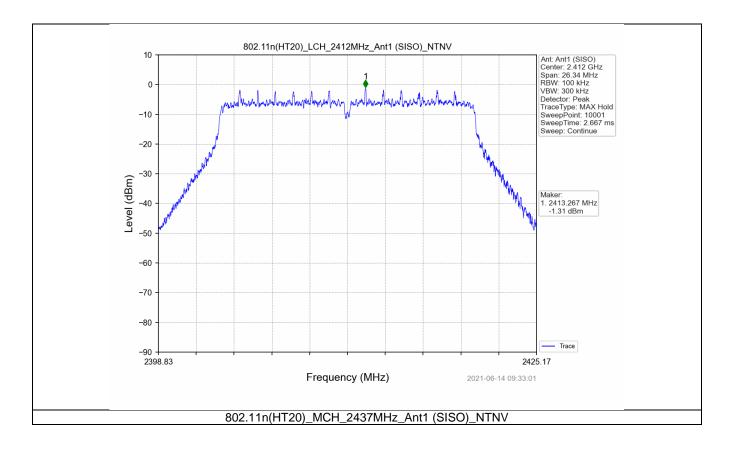
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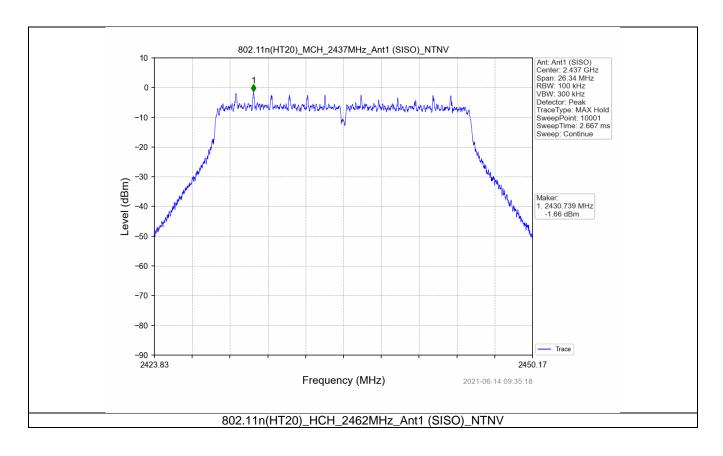
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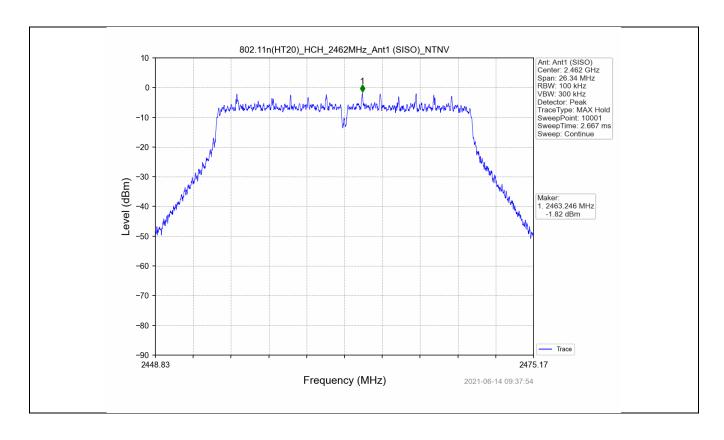
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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2

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: Only for Report Use

5.2.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



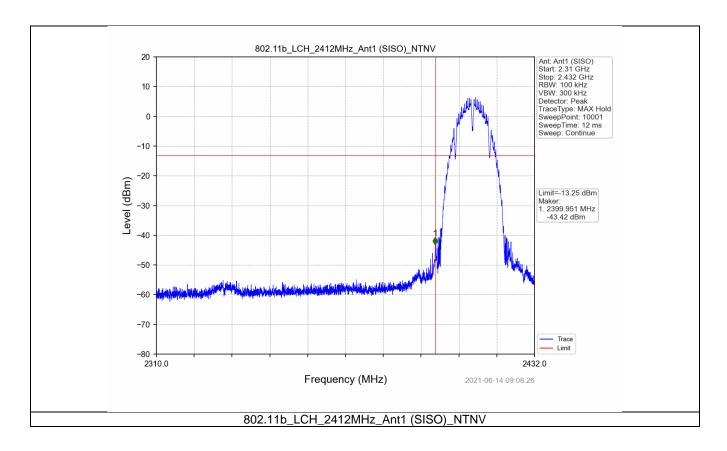
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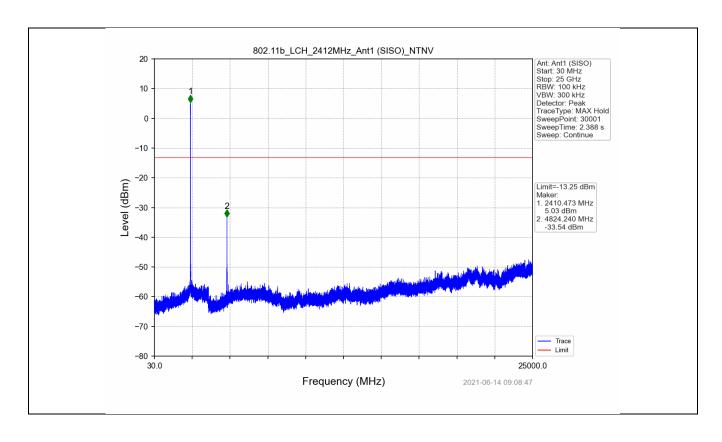
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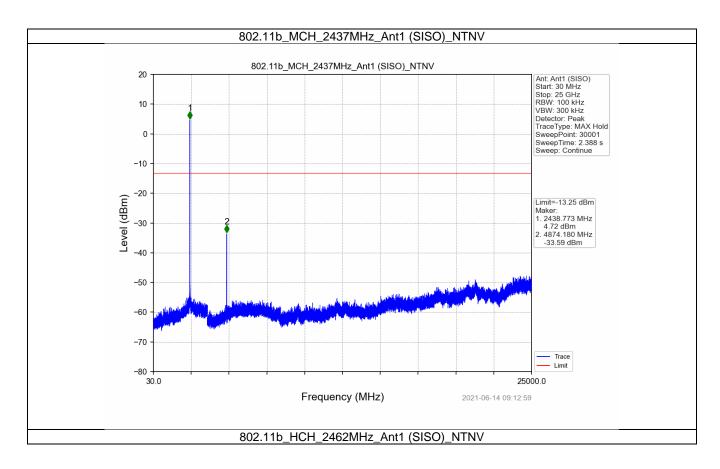
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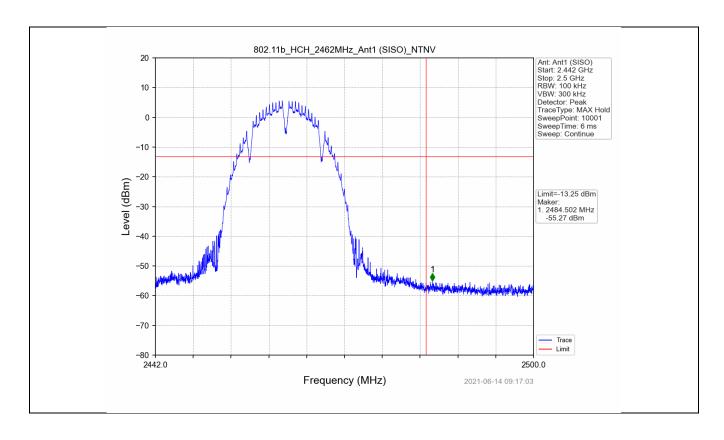
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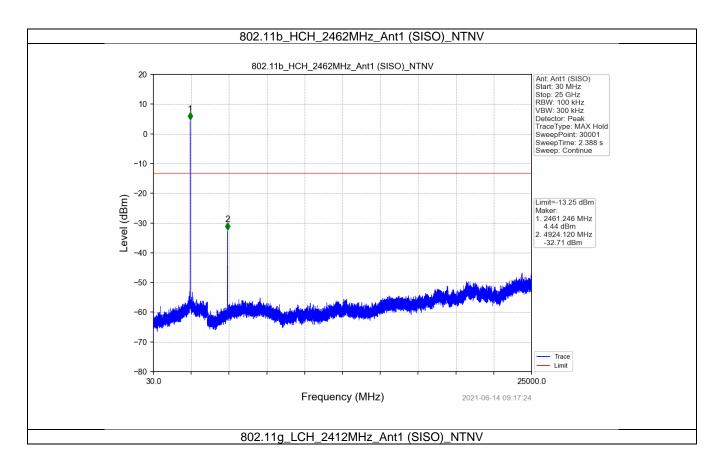
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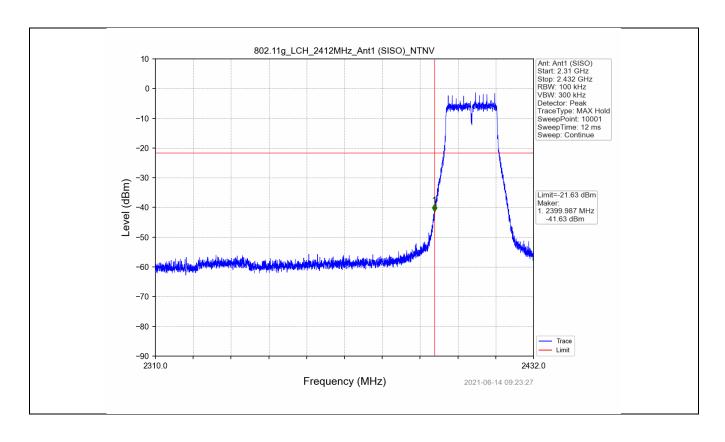
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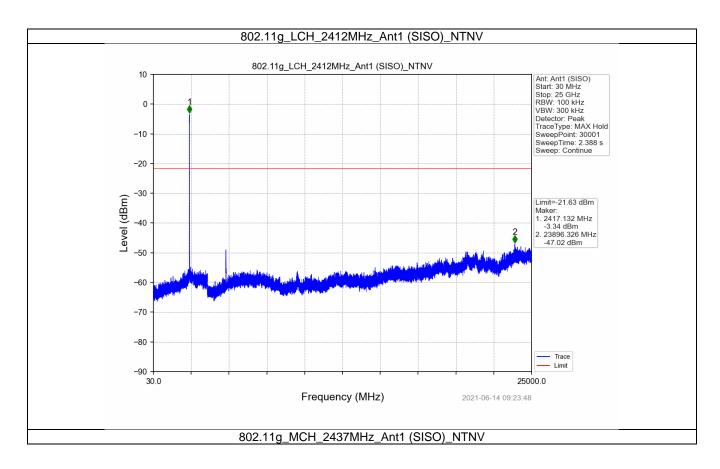
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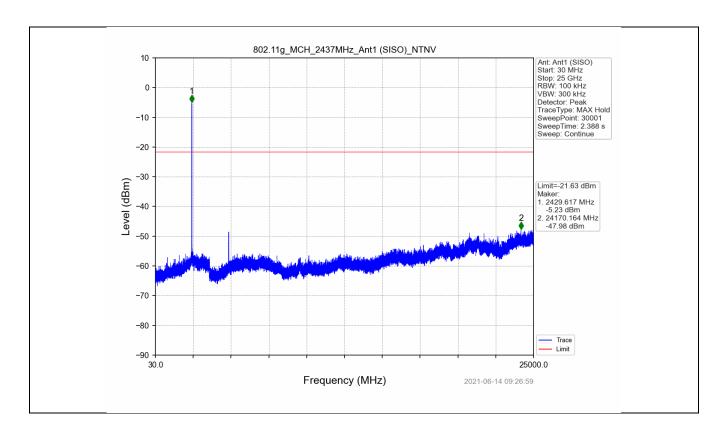
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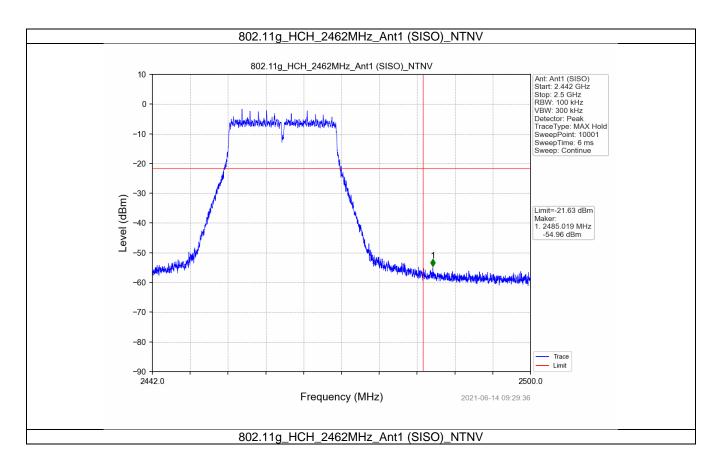
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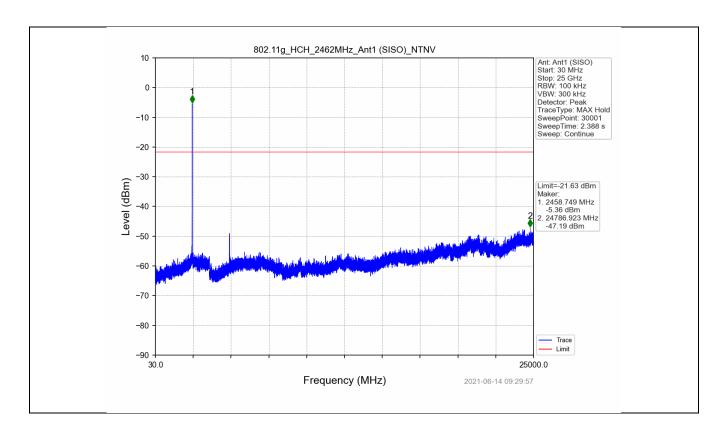
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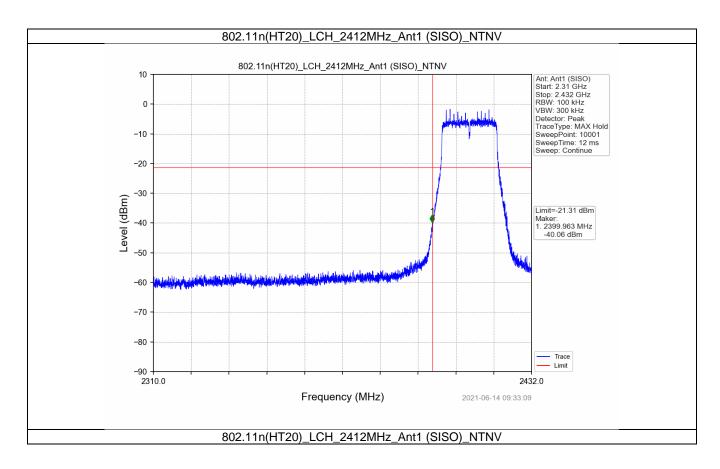
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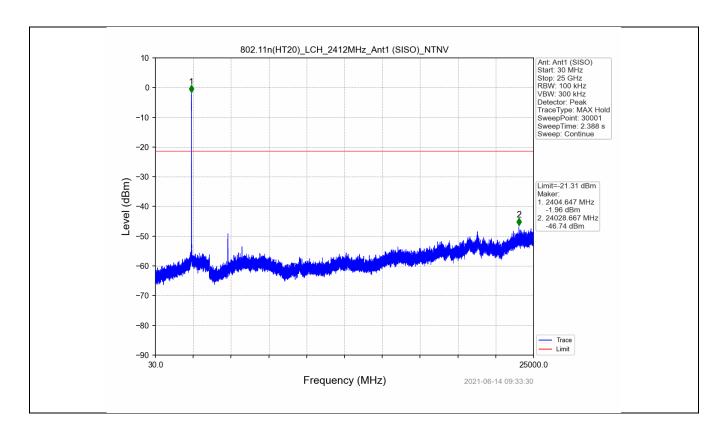
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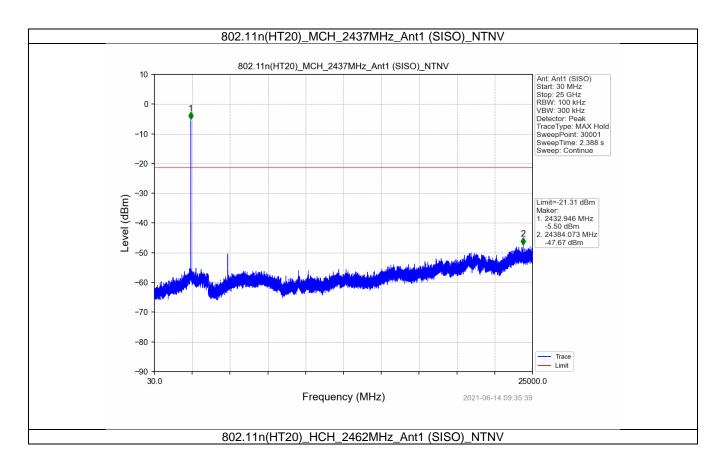
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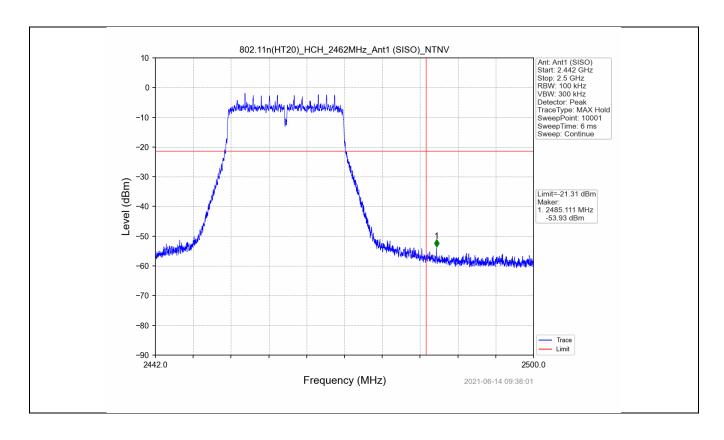
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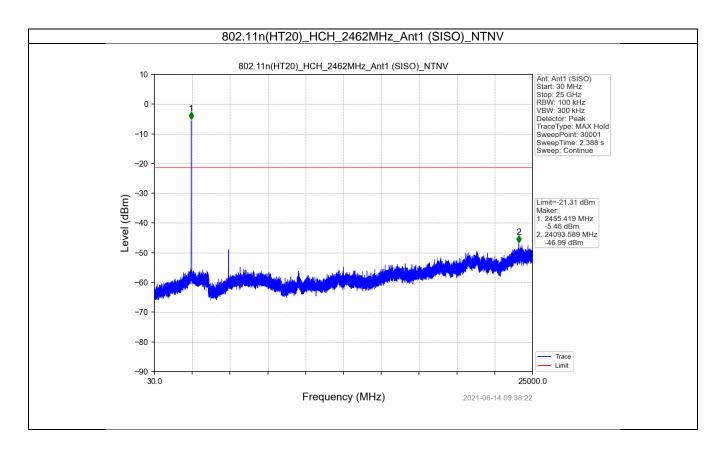
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