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Appendix A for SHEM210800957401

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)
802.11b	SISO	2412	8.383	8.453	99.17	0.04	0.04
		2437	8.384	8.454	99.17	0.04	0.04
		2462	8.384	8.454	99.17	0.04	0.04
802.11g	SISO	2412	1.392	1.459	95.41	0.20	0.03
		2437	1.392	1.460	95.34	0.21	0.03
		2462	1.391	1.459	95.34	0.21	0.03
802.11n (HT20)	SISO	2412	5.084	5.152	98.68	0.06	0.03
		2437	5.083	5.152	98.66	0.06	0.04
		2462	5.083	5.152	98.66	0.06	0.04
802.11n	SISO	2422	2.468	2.536	97.32	0.12	0.03
		2437	2.467	2.535	97.32	0.12	0.03
(HT40)		2452	2.468	2.536	97.32	0.12	0.03

1.1.2 Test Graph

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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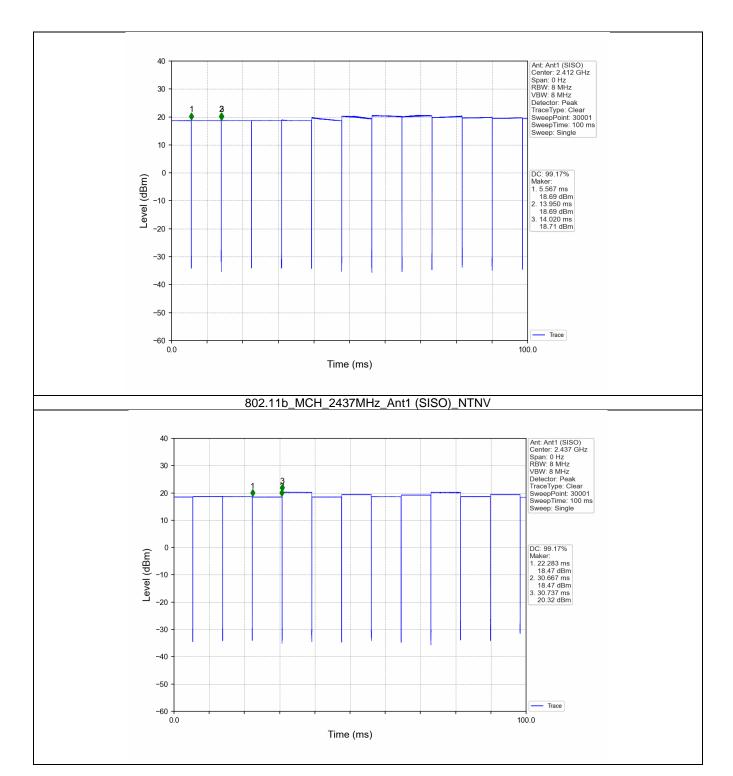
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



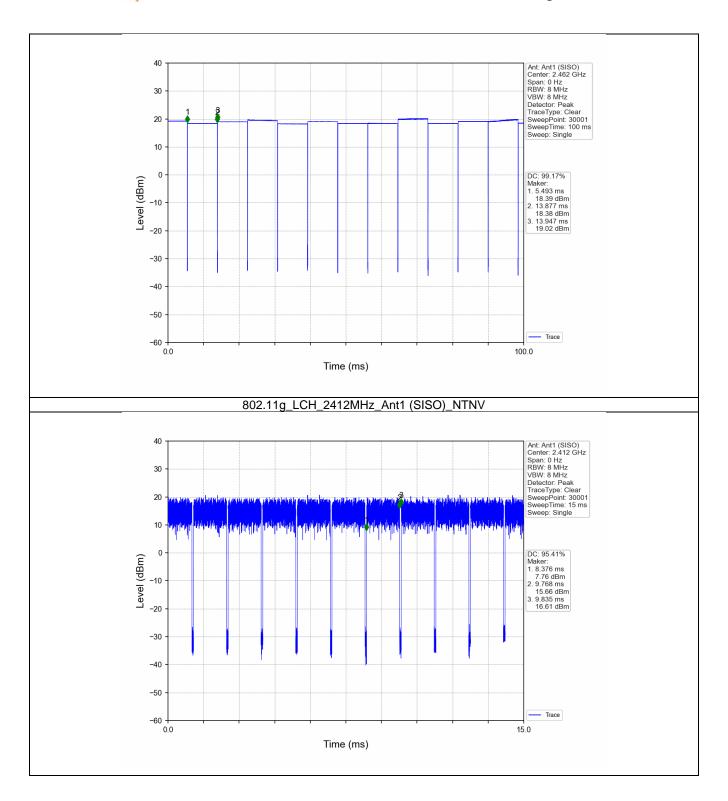
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



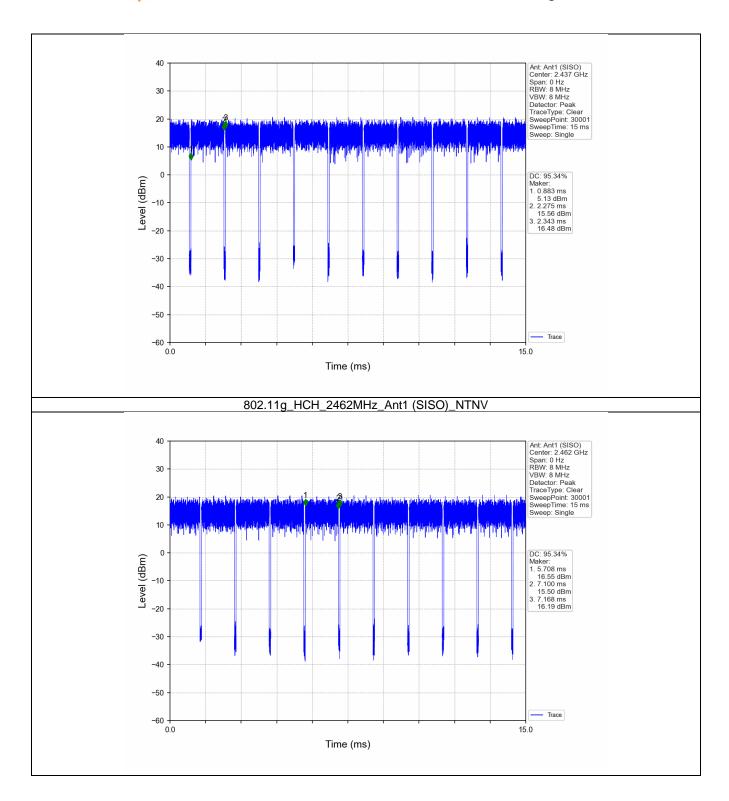
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



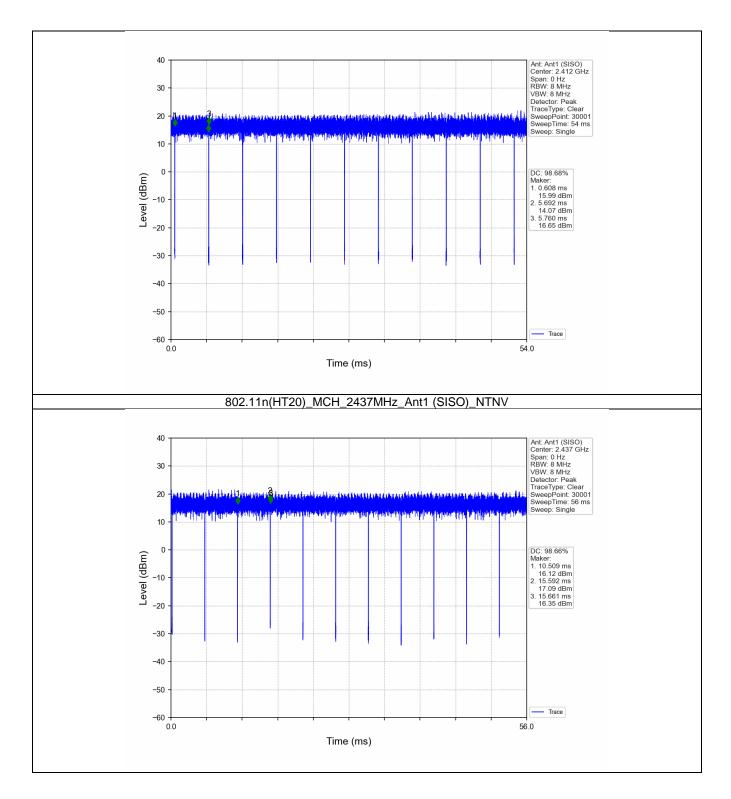
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



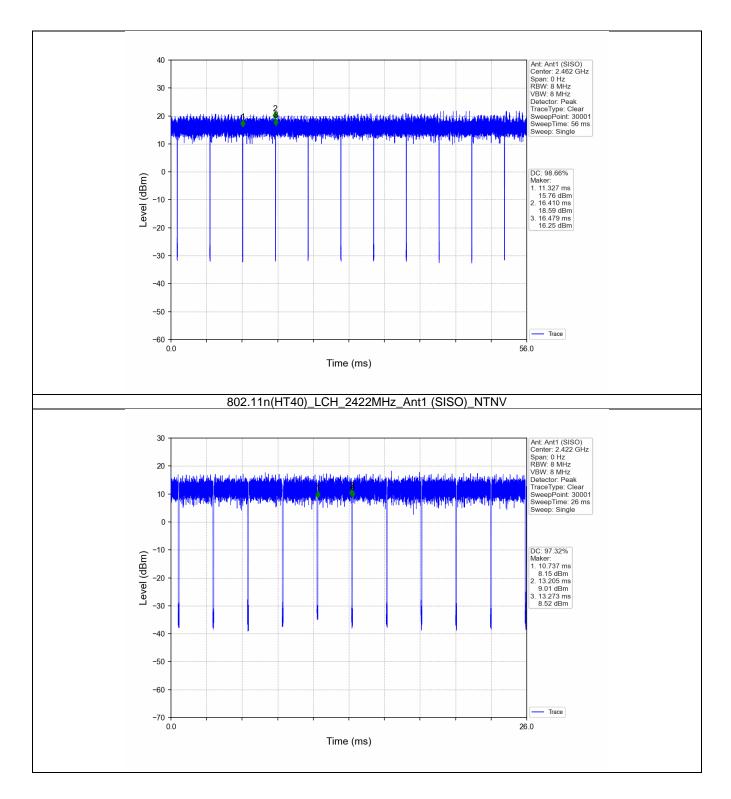
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



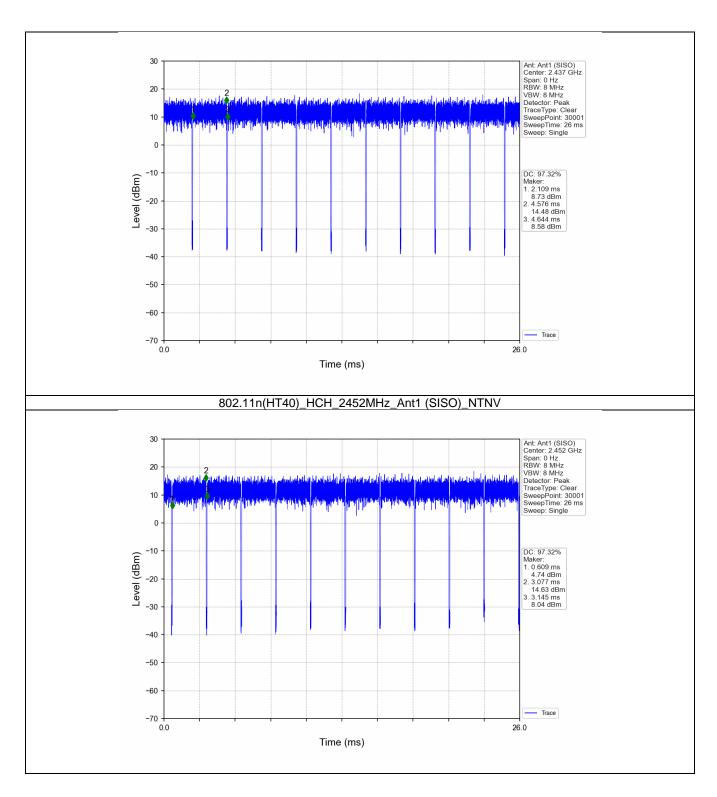
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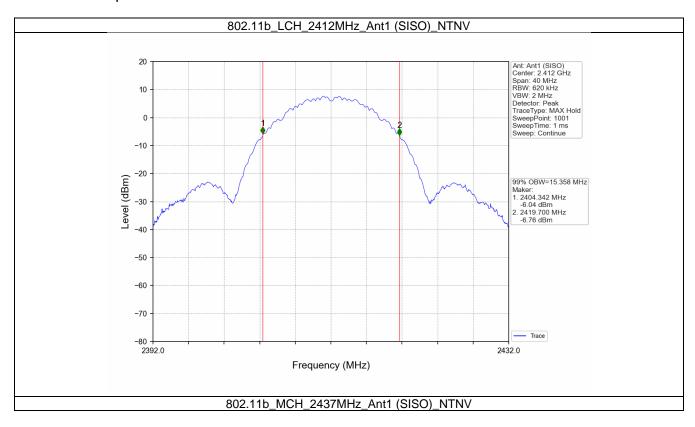
2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	Ant	99% Occupied Bandwidth (MHz)	Vardiet
	Type	(MHz)		Result	Verdict
		2412	1	15.358	Pass
802.11b	SISO	2437	1	15.327	Pass
		2462	1	15.277	Pass
802.11g		2412		18.057	Pass
	SISO	2437	1	18.022	Pass
		2462	1	17.999	Pass
802.11n (HT20)		2412	1	18.779	Pass
	SISO	2437	1	18.740	Pass
		2462	1	18.697	Pass
802.11n (HT40)	SISO	2422	1	37.431	Pass
		2437	1	37.397	Pass
		2452	1	37.366	Pass

2.1.2 Test Graph

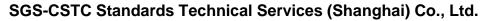




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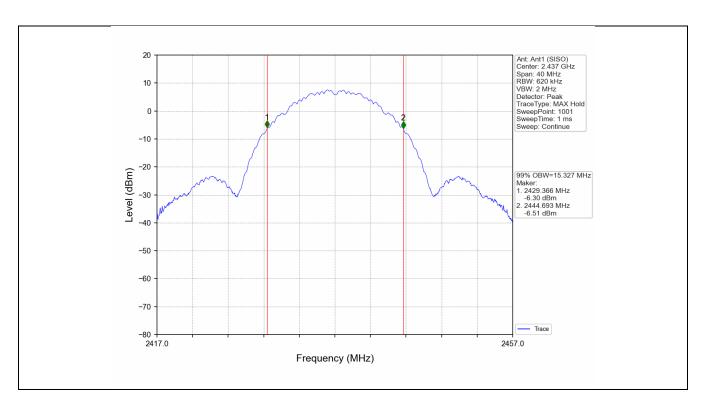
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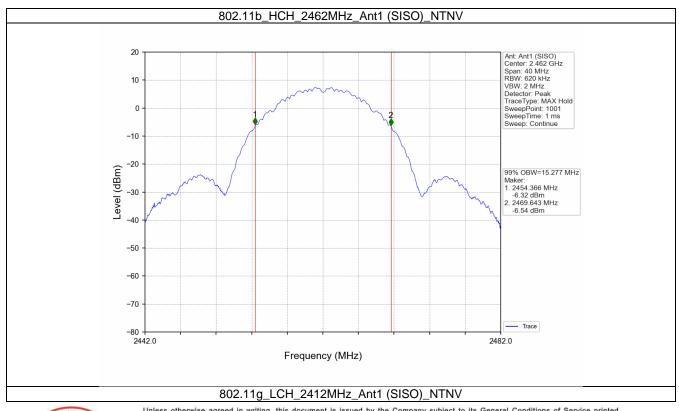
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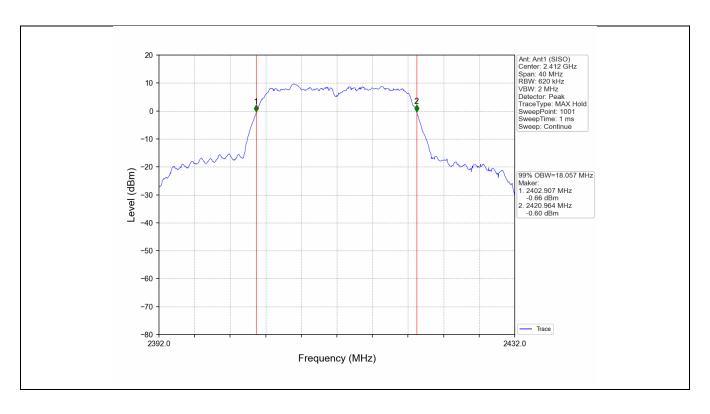
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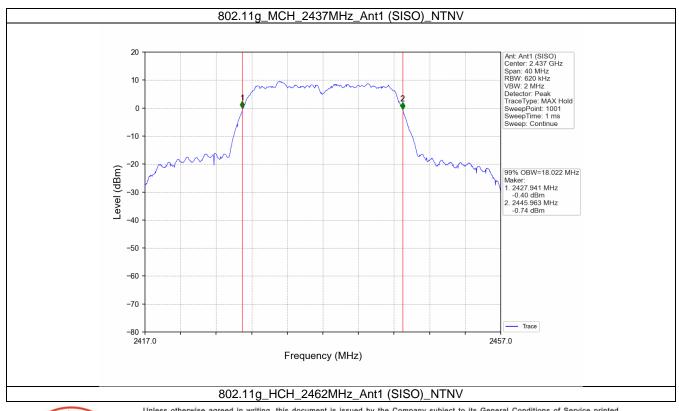
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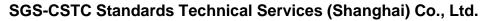




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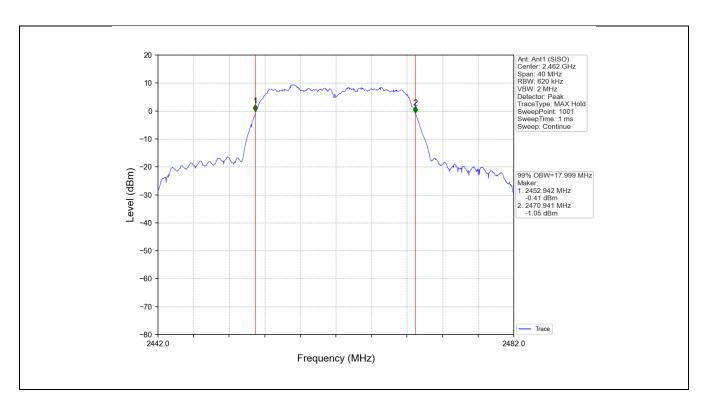
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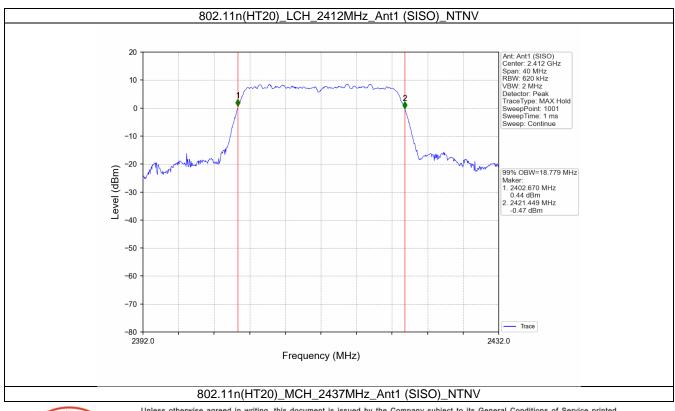
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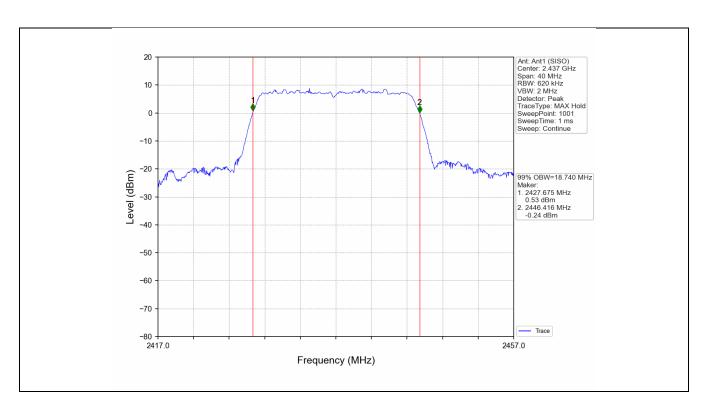
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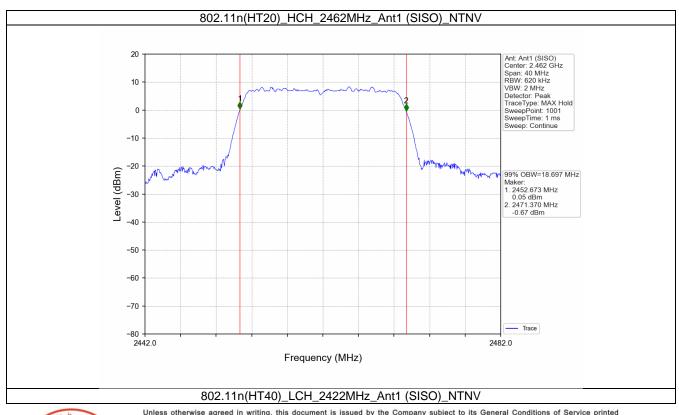
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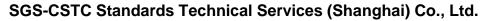




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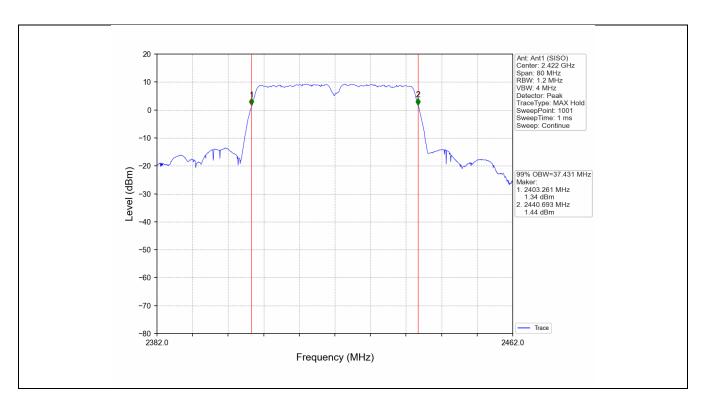
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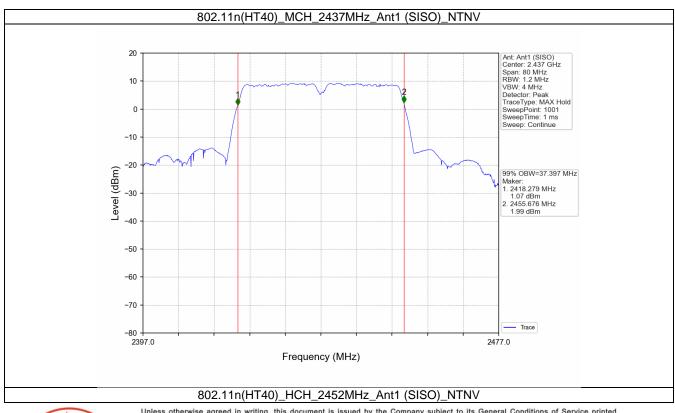
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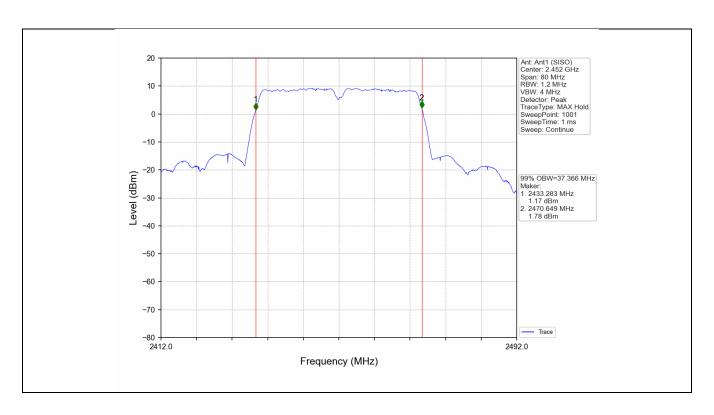
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	Ant	6dB Bandw	\/a = di at	
	Type	(MHz) Ant		Result	Limit	Verdict
802.11b	SISO	2412	1	10.092	>=0.5	Pass
		2437	1	10.097	>=0.5	Pass
		2462	1	10.077	>=0.5	Pass
802.11g	SISO	2412	1	16.391	>=0.5	Pass
		2437	1	16.399	>=0.5	Pass
		2462	1	16.398	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.639	>=0.5	Pass
		2437	1	17.637	>=0.5	Pass
		2462	1	17.637	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.362	>=0.5	Pass
		2437	1	36.355	>=0.5	Pass
		2452	1	36.346	>=0.5	Pass



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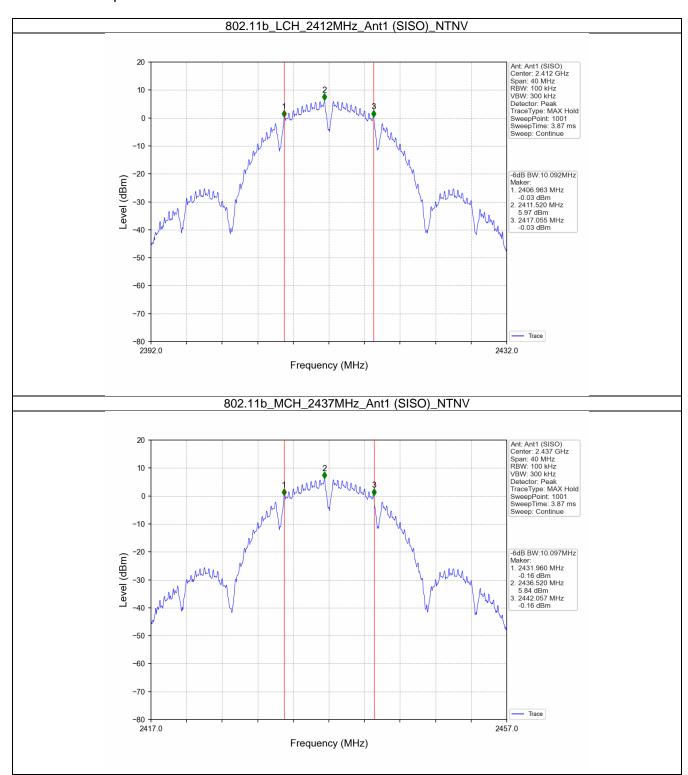
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2.2.2 Test Graph





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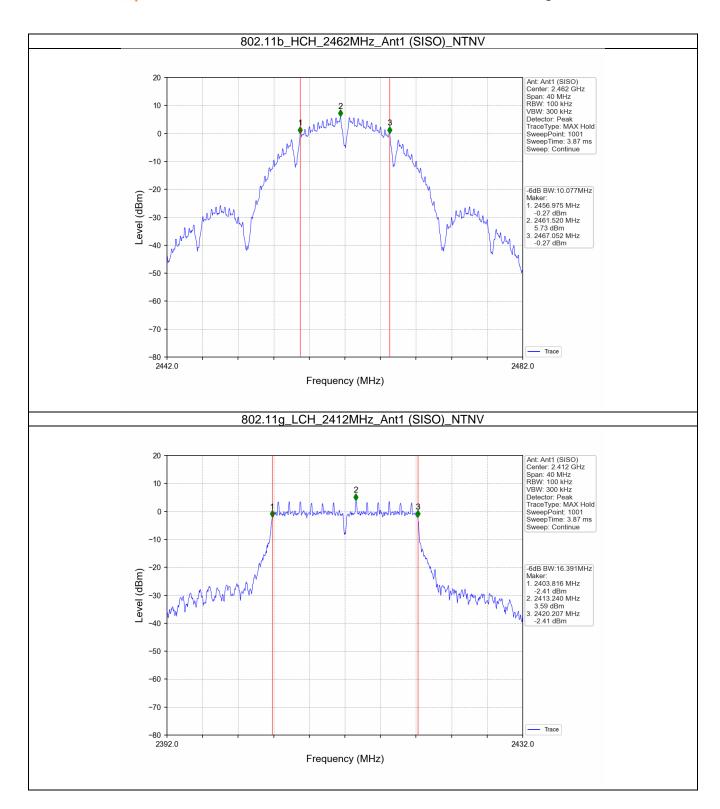
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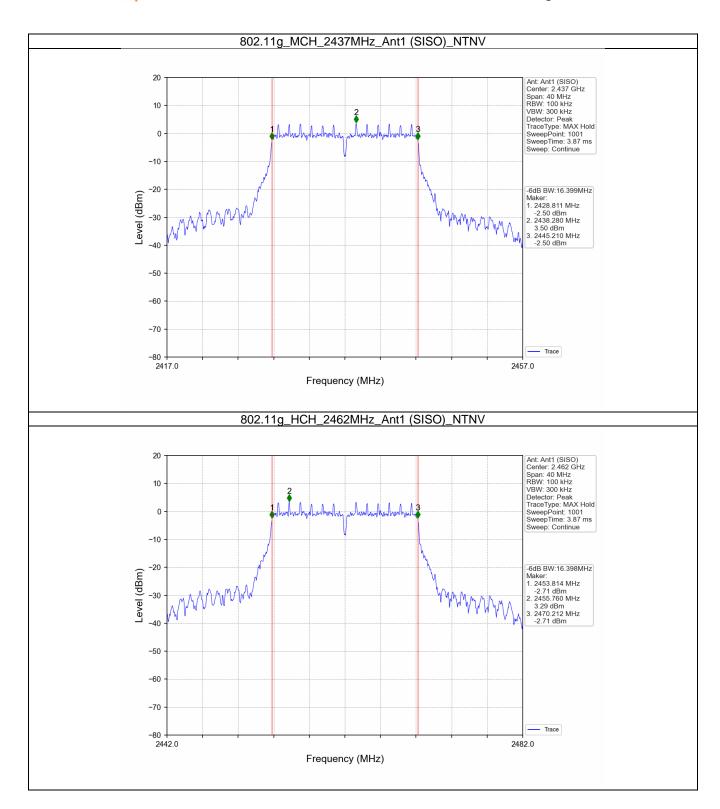
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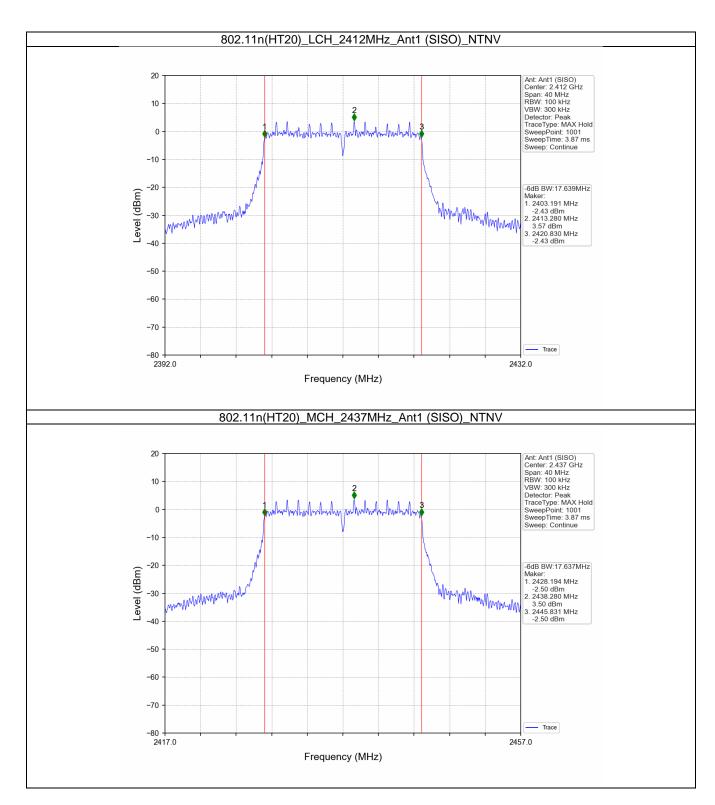
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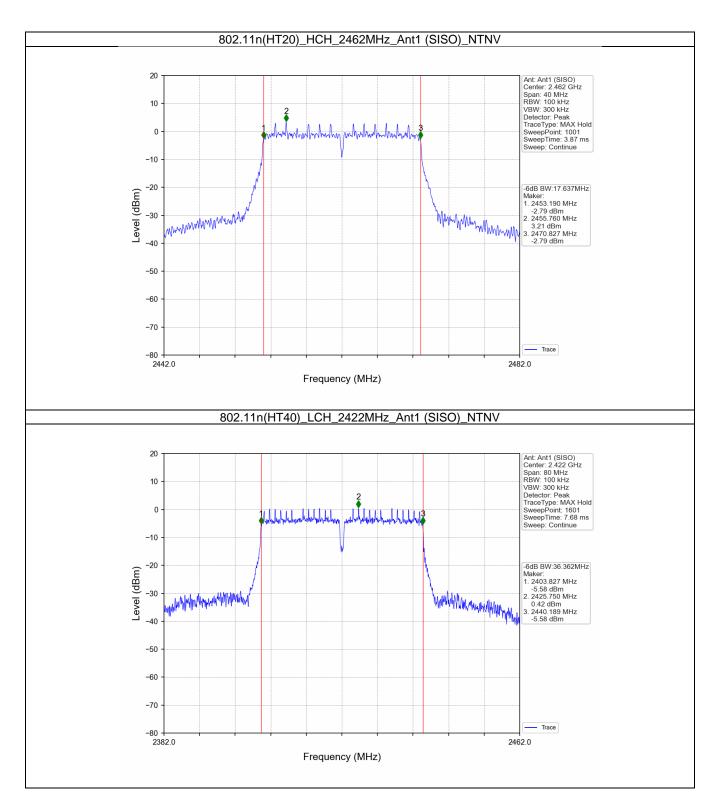
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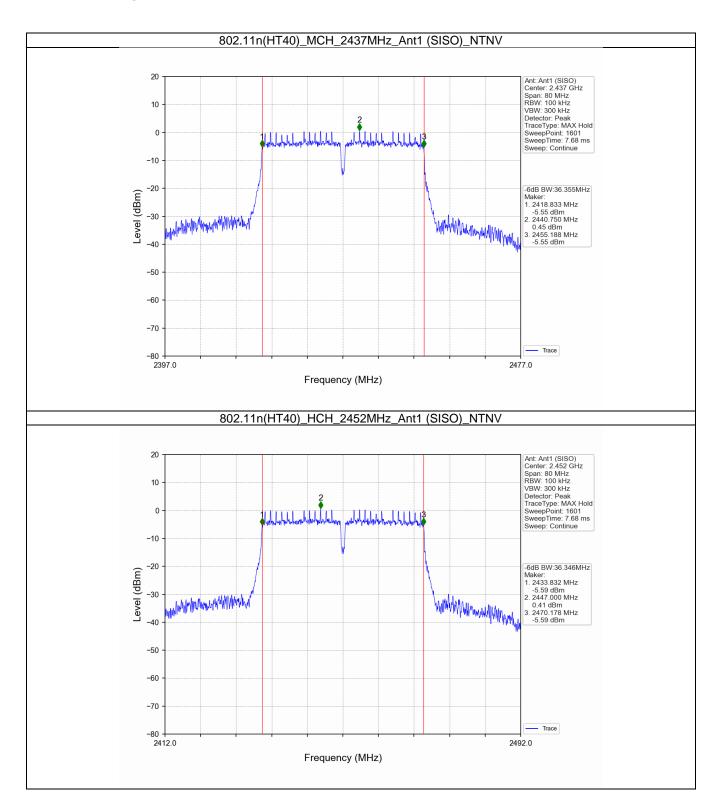
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	Maximum Conducted	Verdict	
Mode	Type	(MHz)	Ant1	Limit	verdict
	SISO	2412	15.68	<=30	Pass
802.11b		2437	15.57	<=30	Pass
		2462	15.43	<=30	Pass
	SISO	2412	14.78	<=30	Pass
802.11g		2437	14.66	<=30	Pass
		2462	14.50	<=30	Pass
000 115	SISO	2412	14.65	<=30	Pass
802.11n (HT20)		2437	14.55	<=30	Pass
(П120)		2462	14.32	<=30	Pass
000 44.5	SISO	2422	14.72	<=30	Pass
802.11n		2437	14.68	<=30	Pass
(HT40)		2452	14.55	<=30	Pass
Note1: Antenna	a Gain: Ant1: 2	.64dBi;			•

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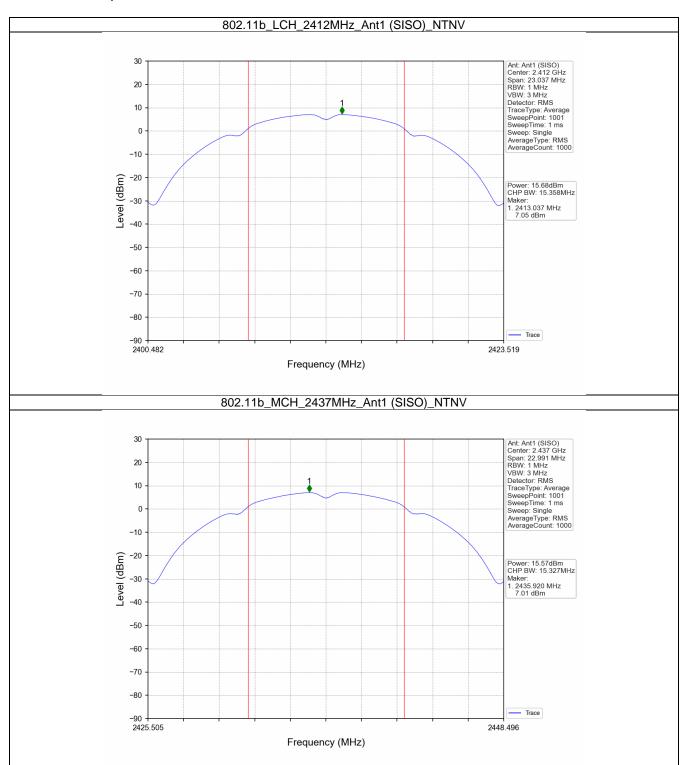
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3.1.2 Test Graph





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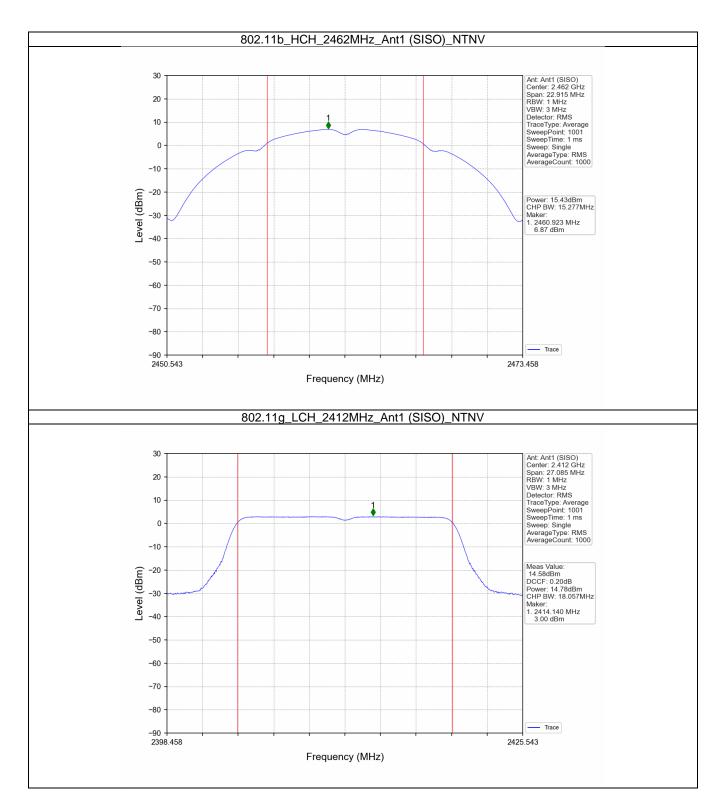
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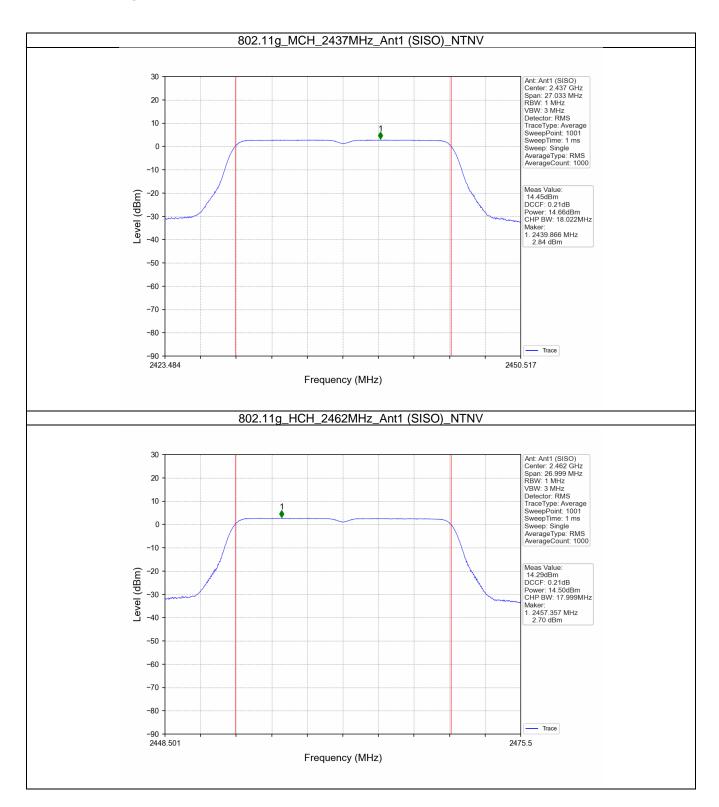
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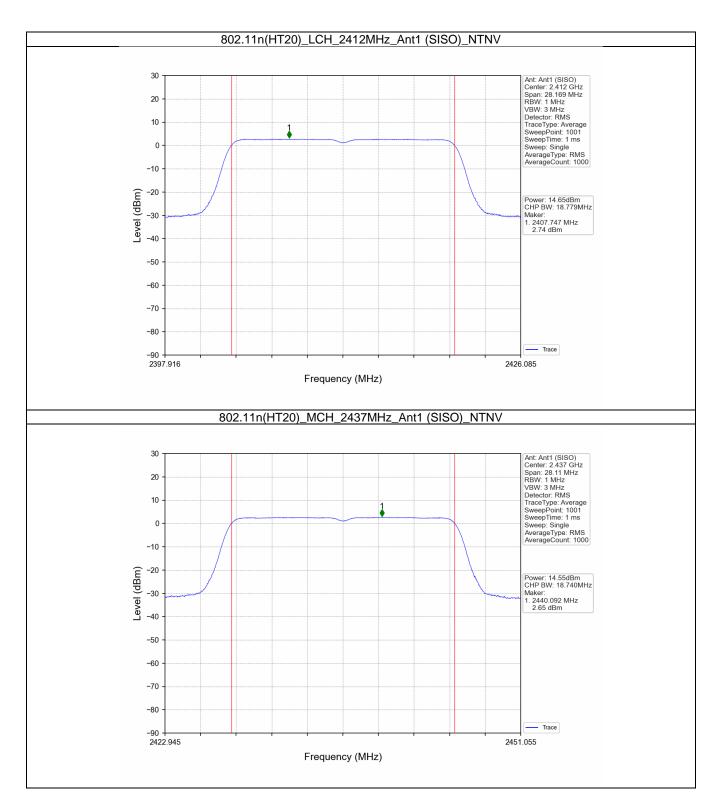
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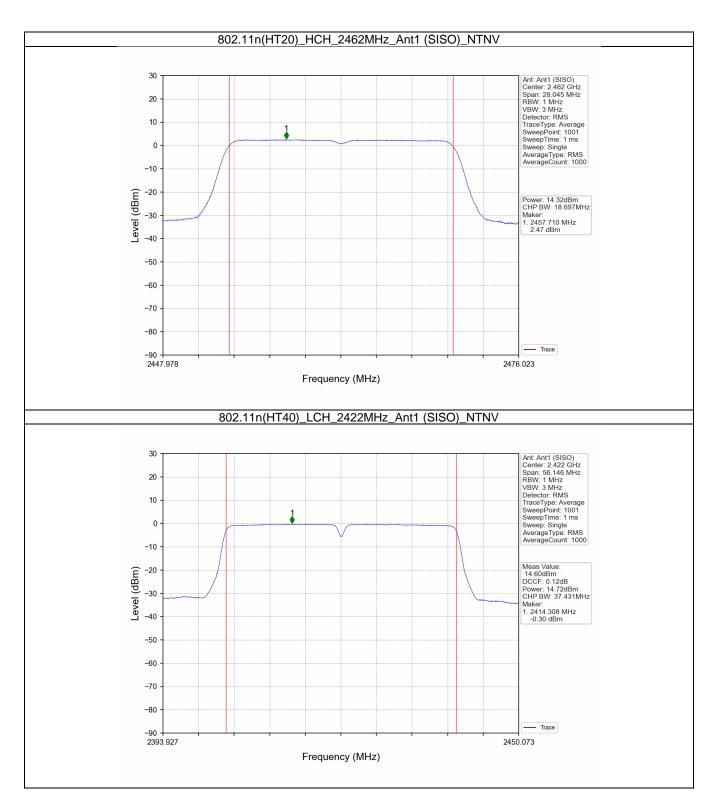
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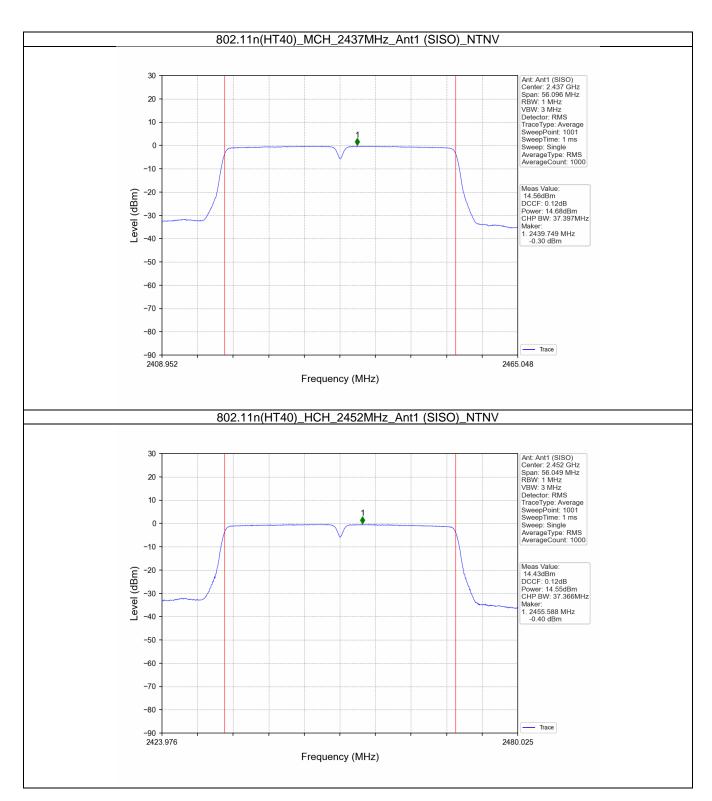
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4. Maximum Power Spectral Density

4.1 PSD

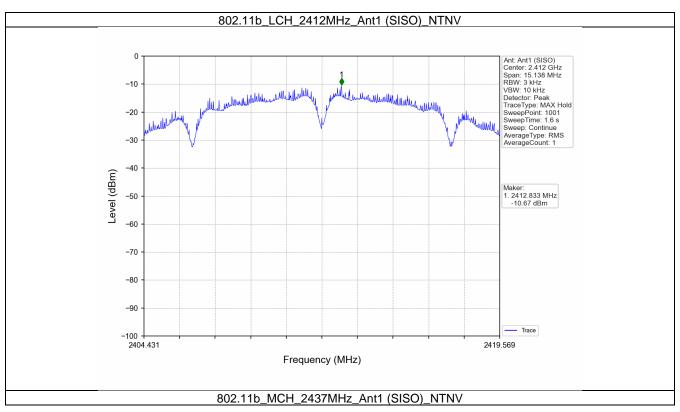
4.1.1 Test Result

Mode	TX	Frequency	Maximum PSI	Verdict	
Mode	Type	(MHz)	Ant1	Limit	verdict
	SISO	2412	-10.67	<=8	Pass
802.11b		2437	-11.22	<=8	Pass
		2462	-11.60	<=8	Pass
	SISO	2412	-12.47	<=8	Pass
802.11g		2437	-12.58	<=8	Pass
		2462	-13.53	<=8	Pass
000 115	SISO	2412	-13.05	<=8	Pass
802.11n (HT20)		2437	-13.09	<=8	Pass
		2462	-13.06	<=8	Pass
000 44.5	SISO	2422	-15.37	<=8	Pass
802.11n (HT40)		2437	-14.72	<=8	Pass
(11140)		2452	-15.46	<=8	Pass
Note1: Antenna G	ain: Ant1: 2.64dE	i;			

4.1.2 Test Graph

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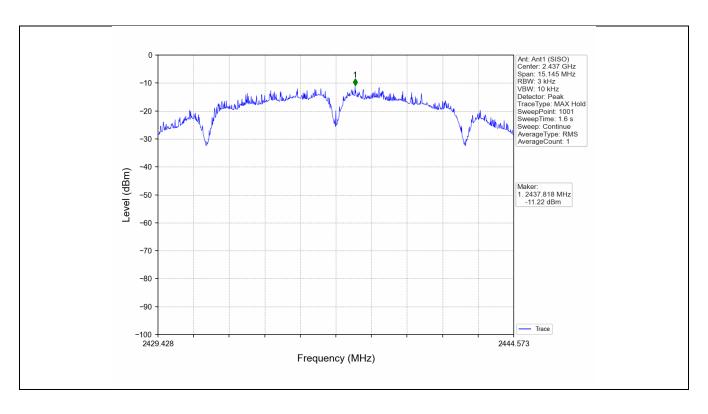
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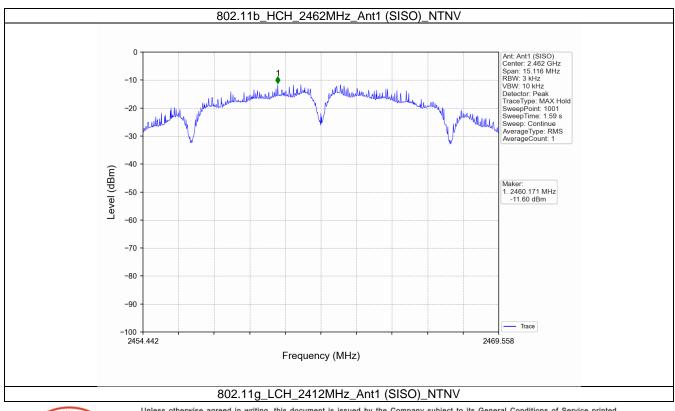
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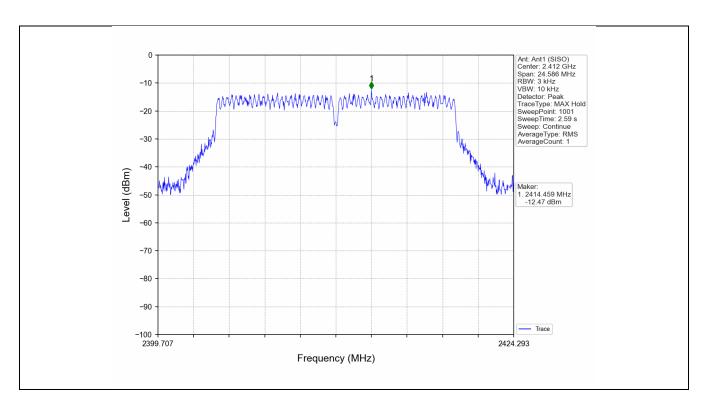
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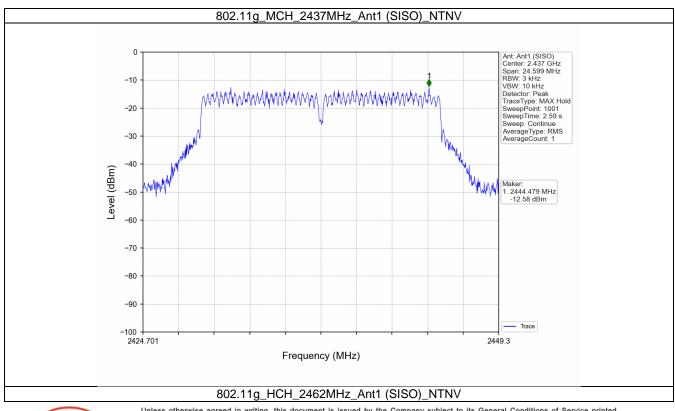
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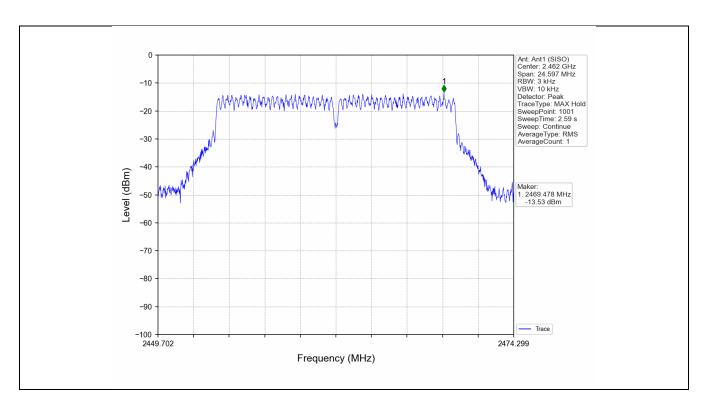
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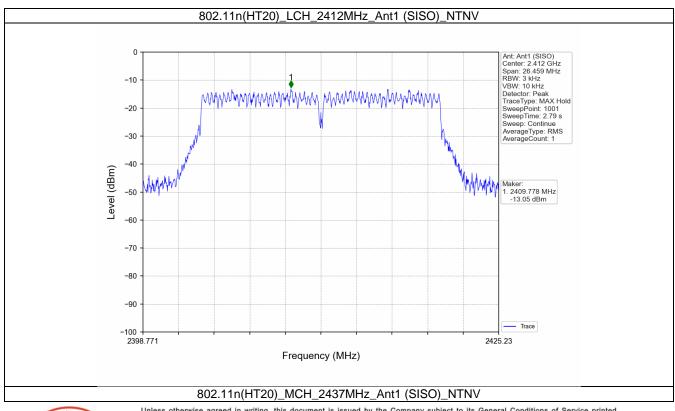
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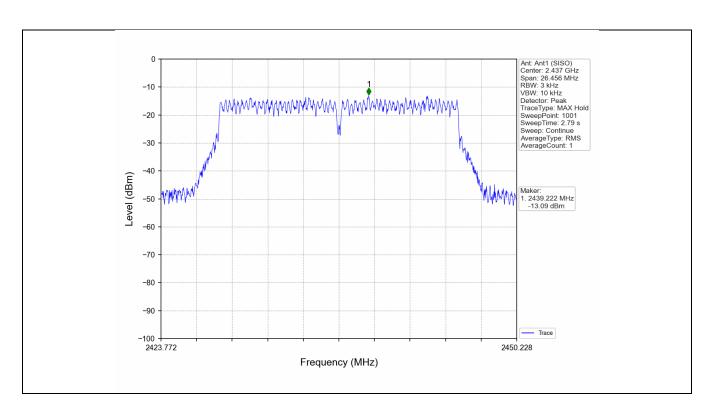
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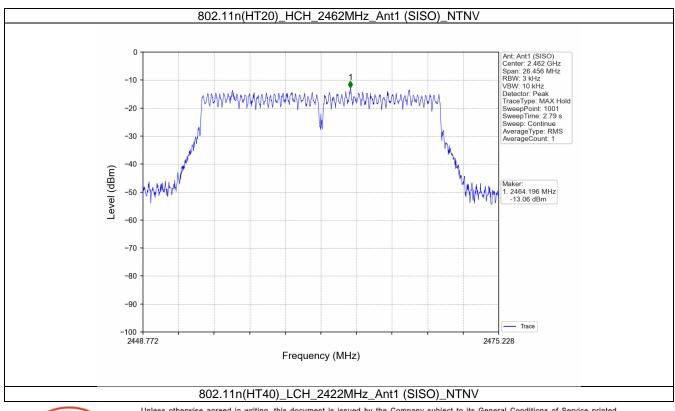
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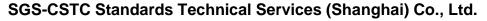




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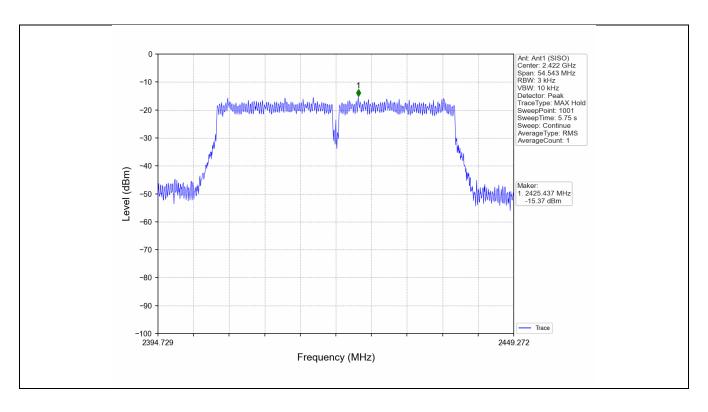
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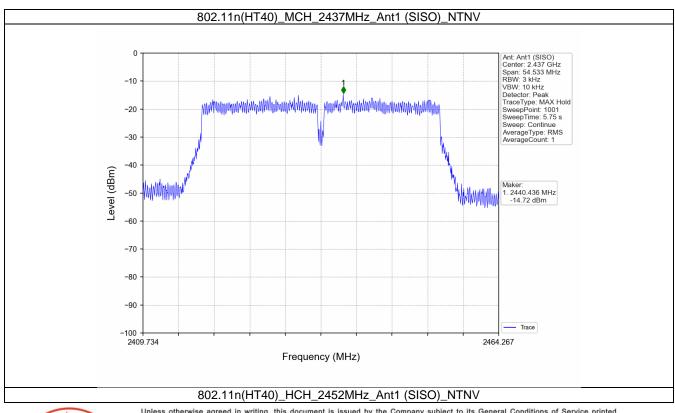
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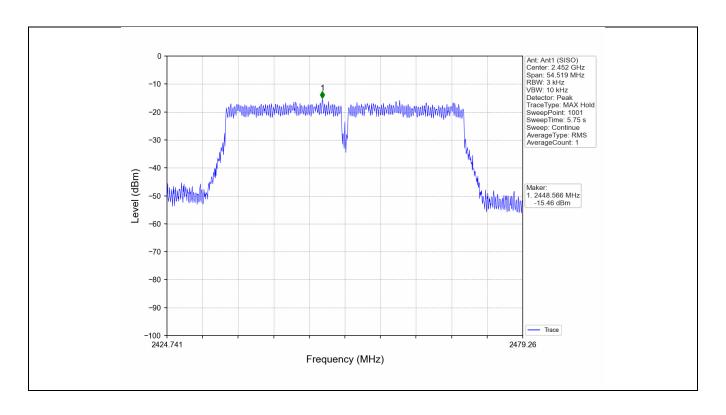
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
	SISO	2412	1	5.76
802.11b		2437	1	5.65
		2462	1	5.53
	SISO	2412	1	0.83
802.11g		2437	1	3.37
		2462	1	3.27
000 44%	SISO	2412	1	3.25
802.11n		2437	1	3.14
(HT20)		2462	1	3.17
000.44	SISO	2422	1	0.55
802.11n		2437	1	0.43
(HT40)		2452	1	0.17

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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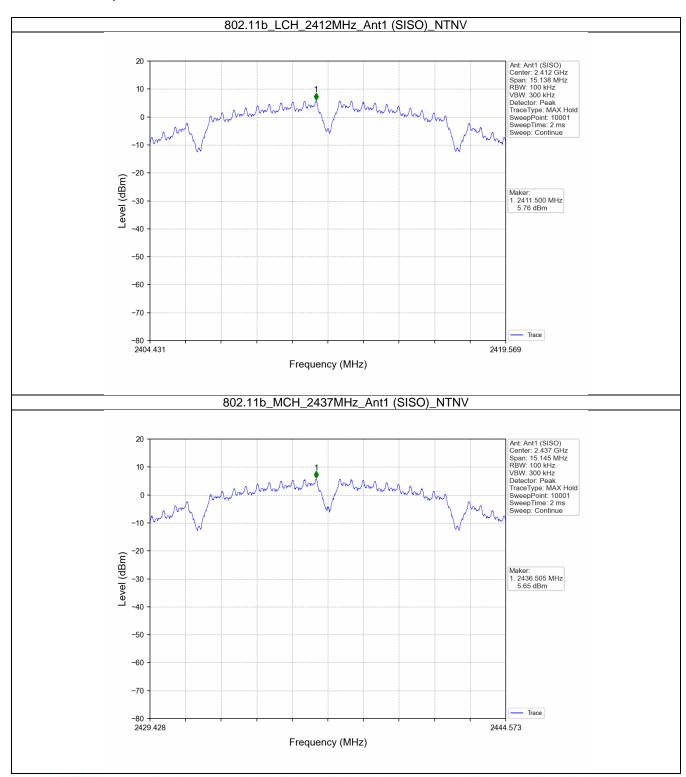
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5.1.2 Test Graph



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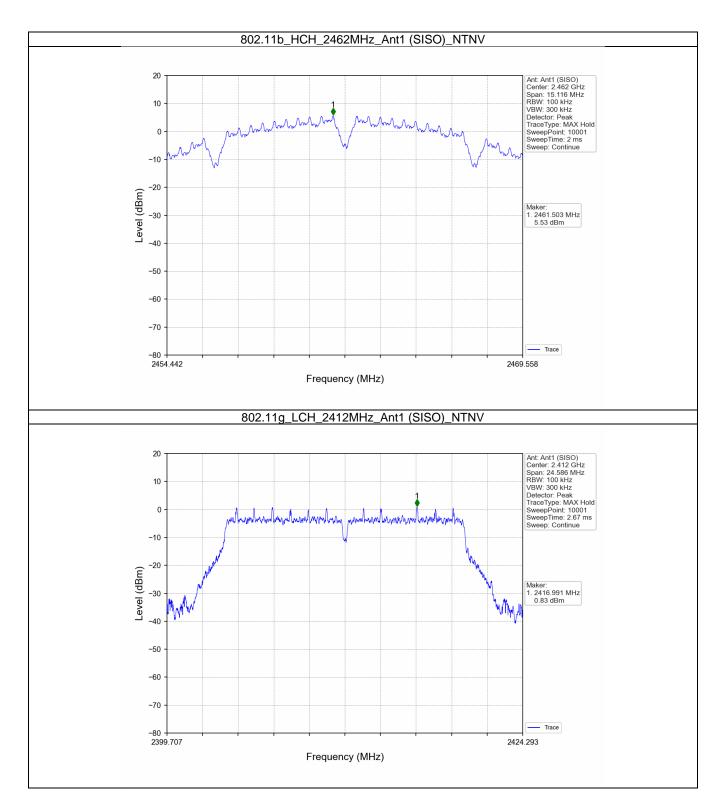
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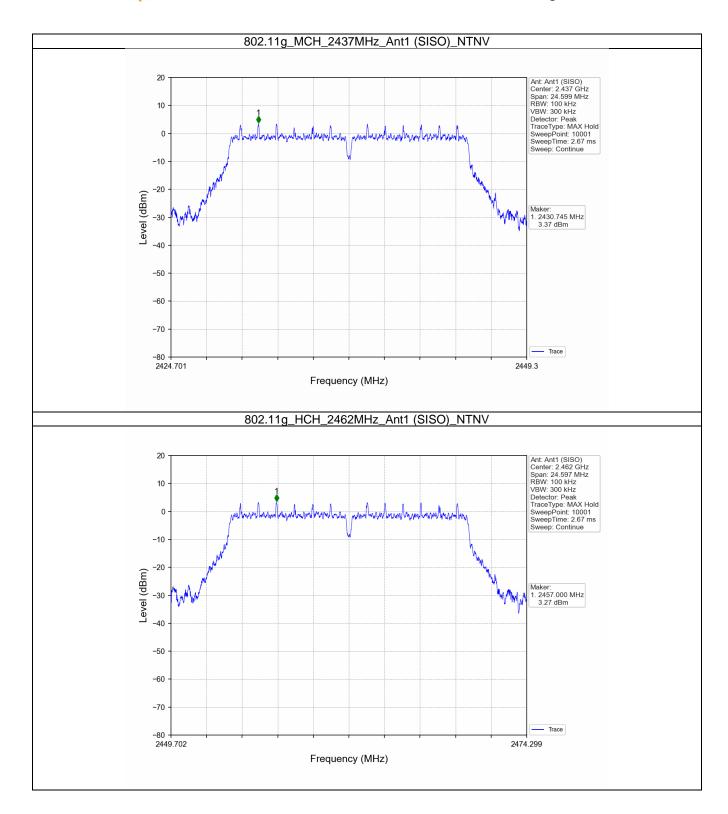
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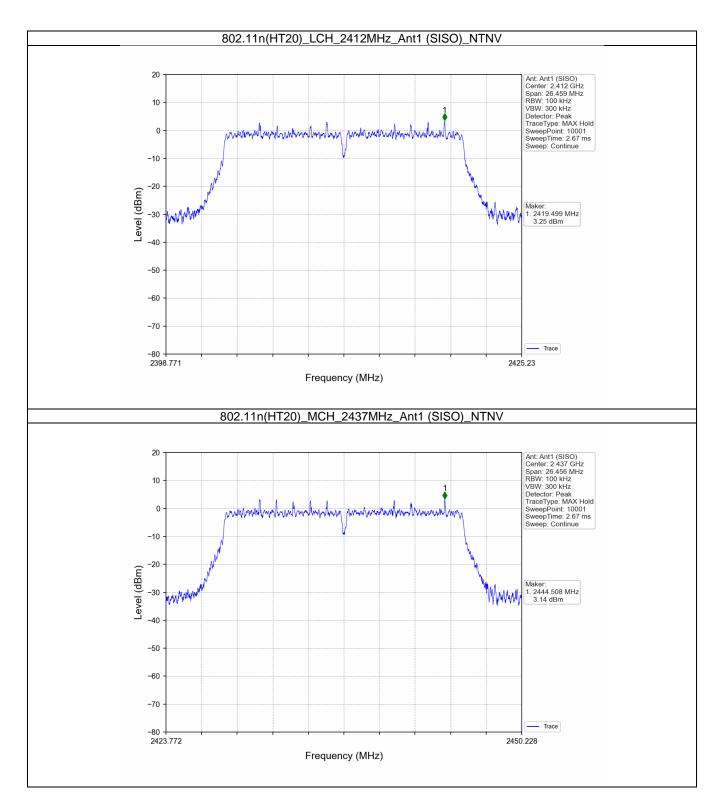
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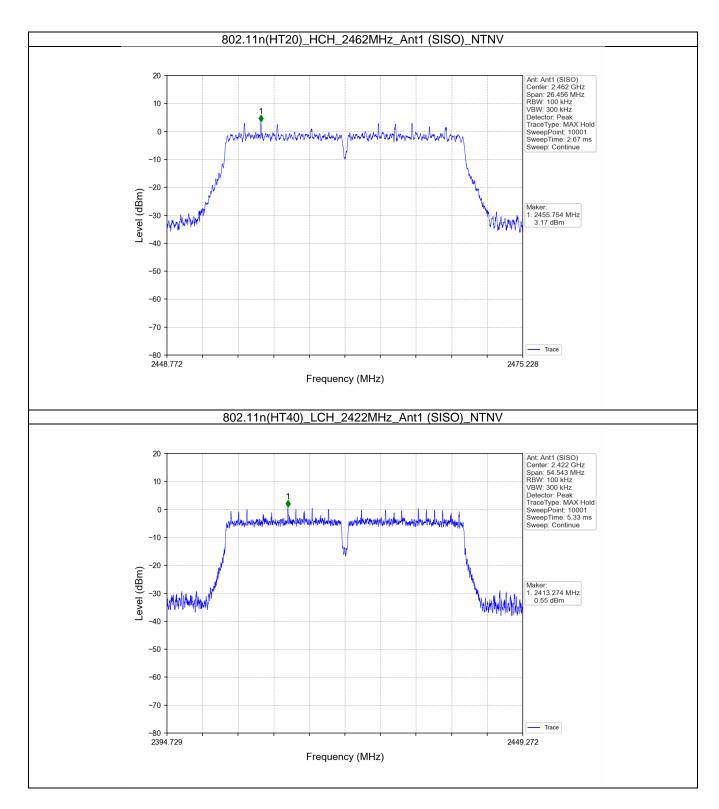
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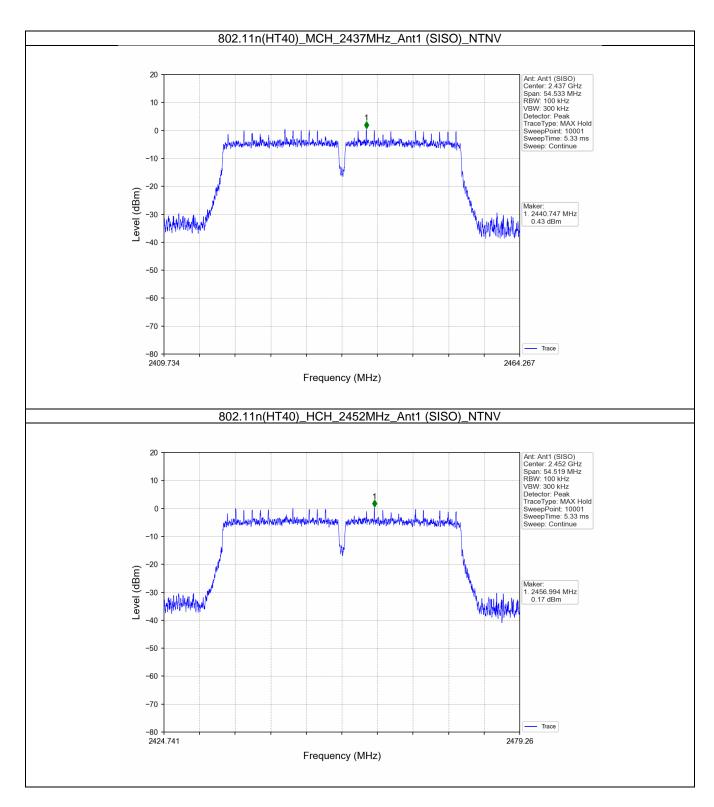
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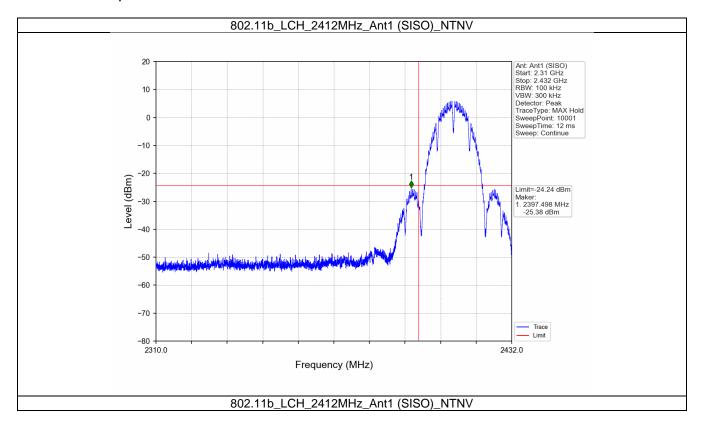
5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.76	-24.24	Pass
		2437	1	5.76	-24.24	Pass
		2462	1	5.76	-24.24	Pass
802.11g	SISO	2412	1	3.37	-26.63	Pass
		2437	1	3.37	-26.63	Pass
		2462	1	3.37	-26.63	Pass
802.11n (HT20)	SISO	2412	1	3.25	-26.75	Pass
		2437	1	3.25	-26.75	Pass
		2462	1	3.25	-26.75	Pass
802.11n (HT40)	SISO	2422	1	0.55	-29.45	Pass
		2437	1	0.55	-29.45	Pass
		2452	1	0.55	-29.45	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.

5.2.2 Test Graph

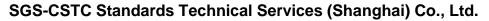




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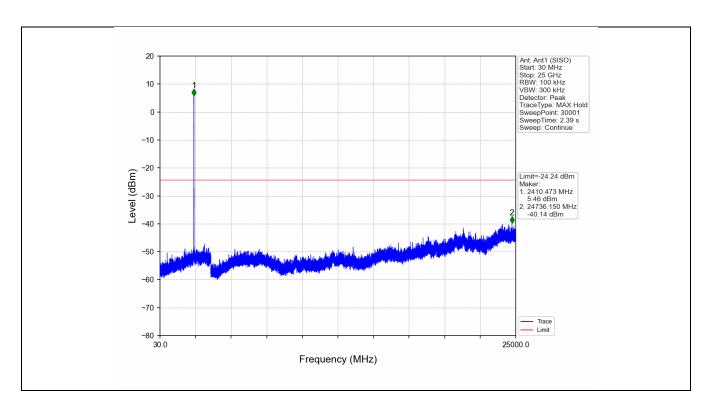
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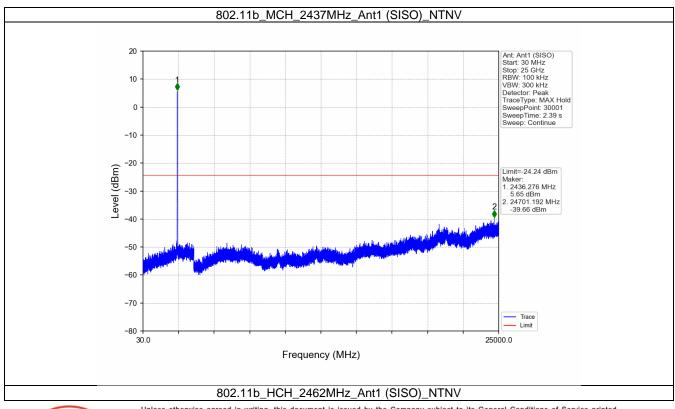




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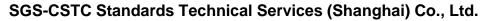


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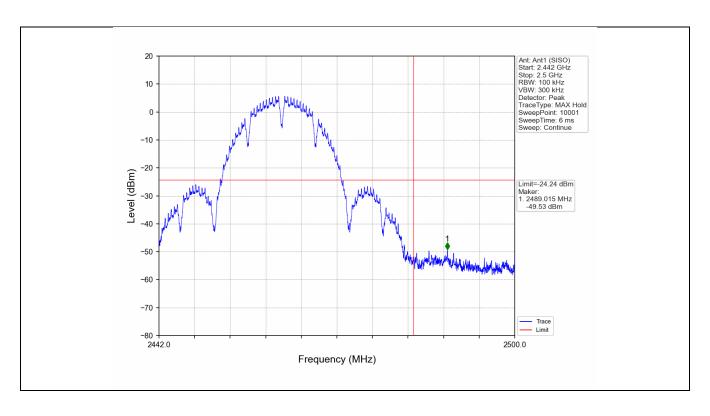
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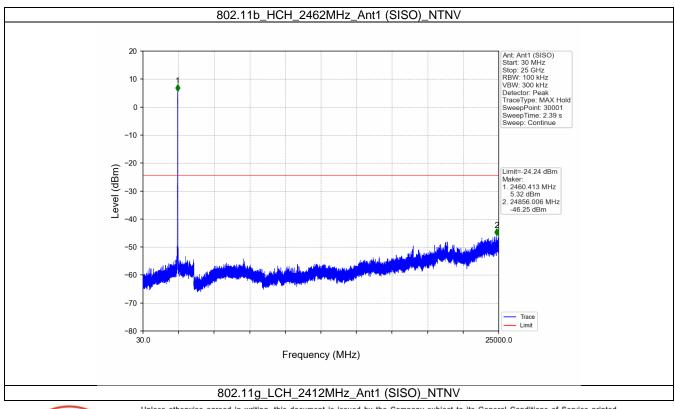
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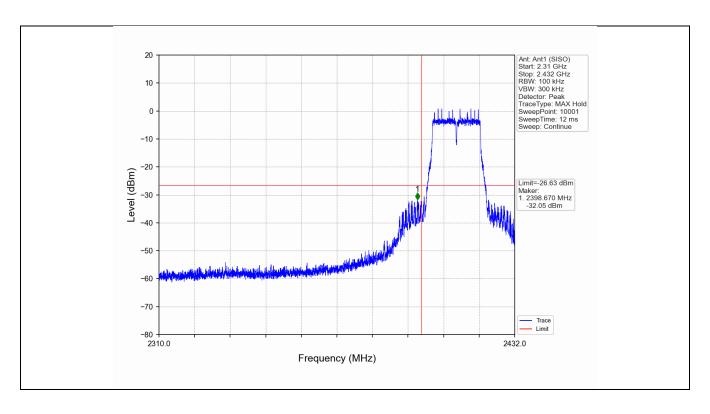
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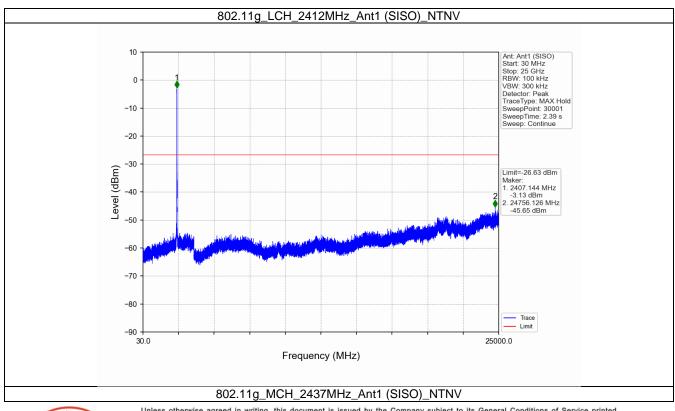
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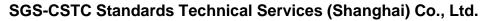




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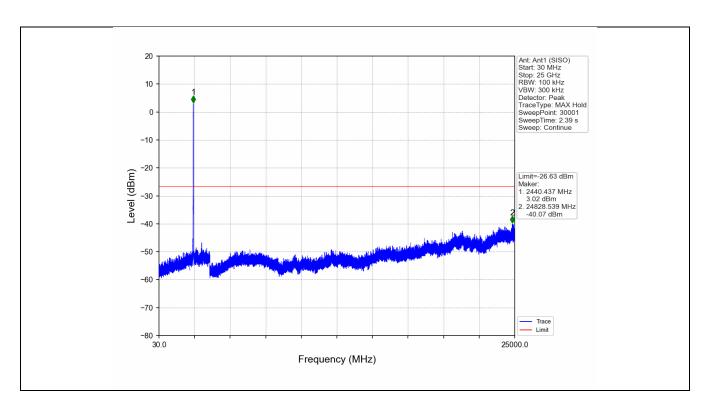
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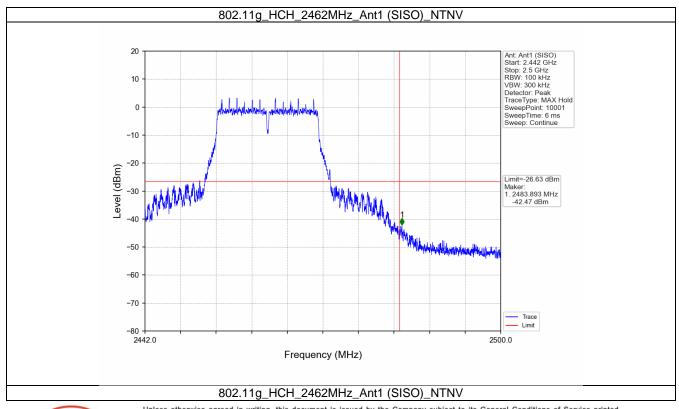
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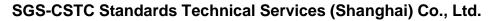


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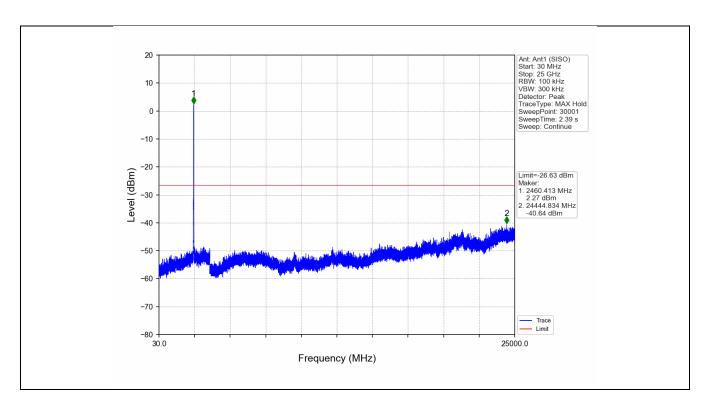
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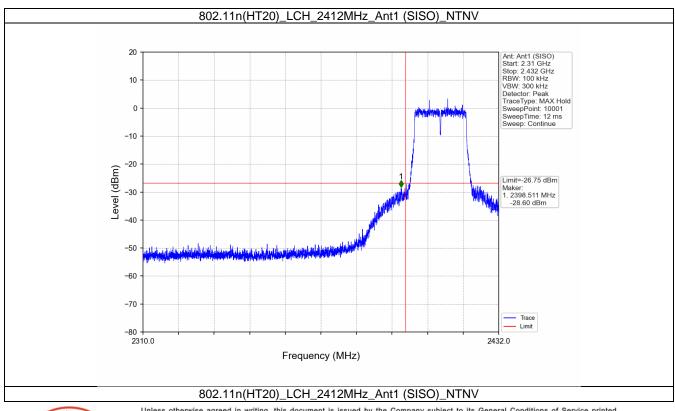
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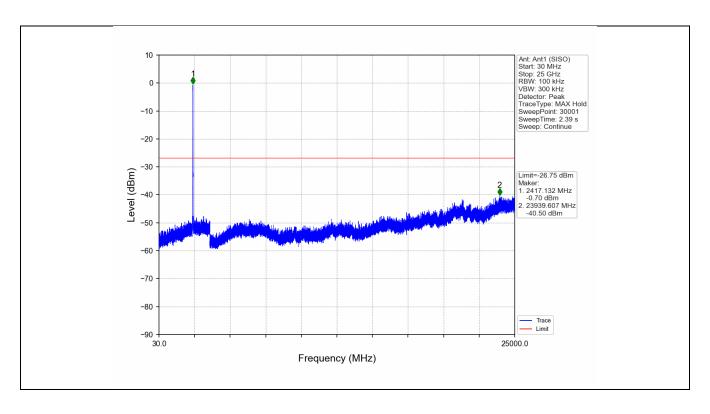
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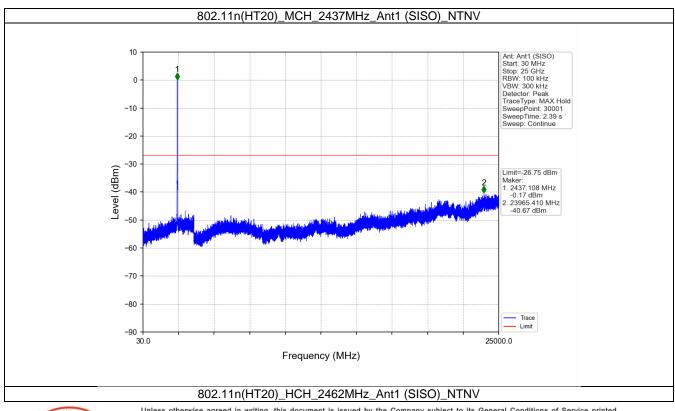




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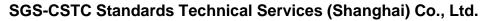
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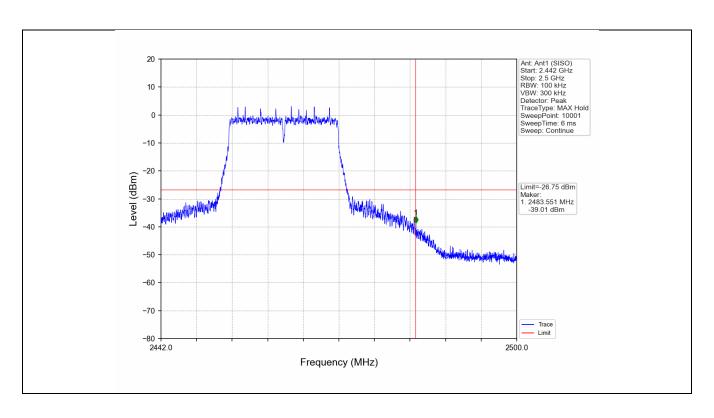
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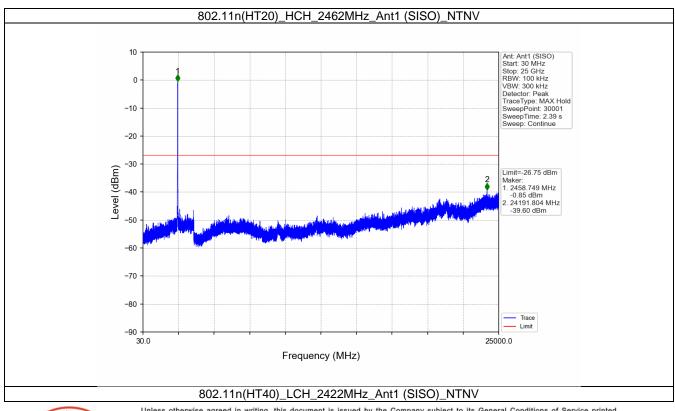
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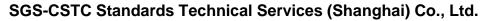
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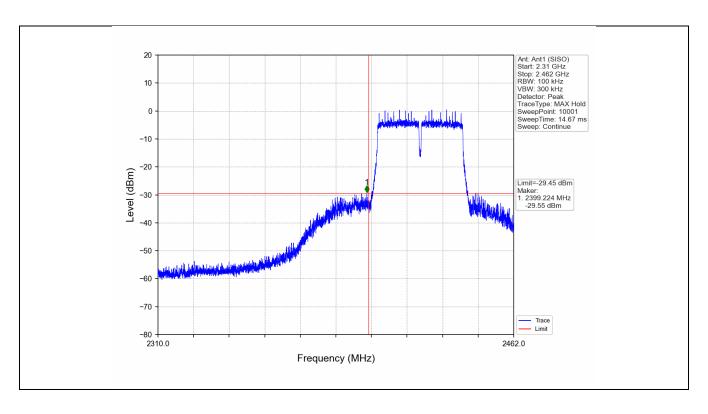
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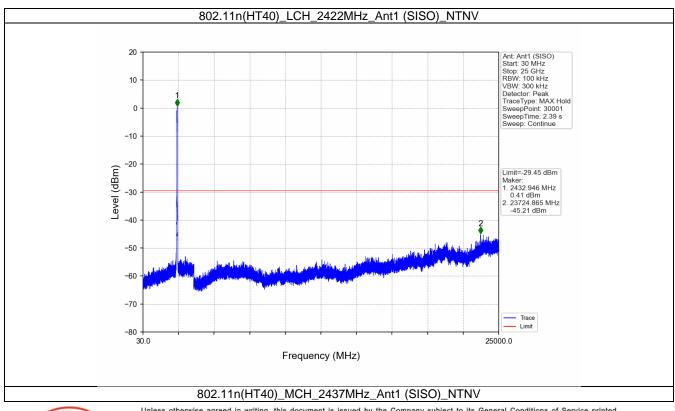
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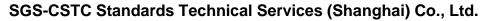




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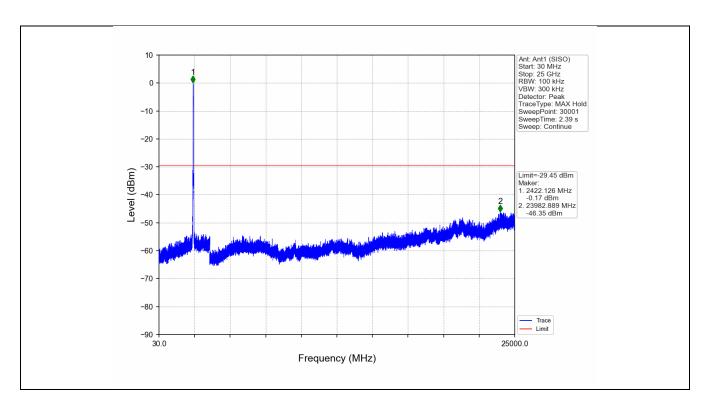
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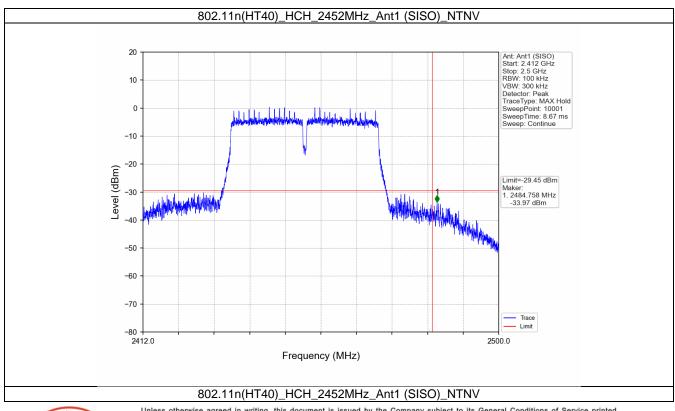
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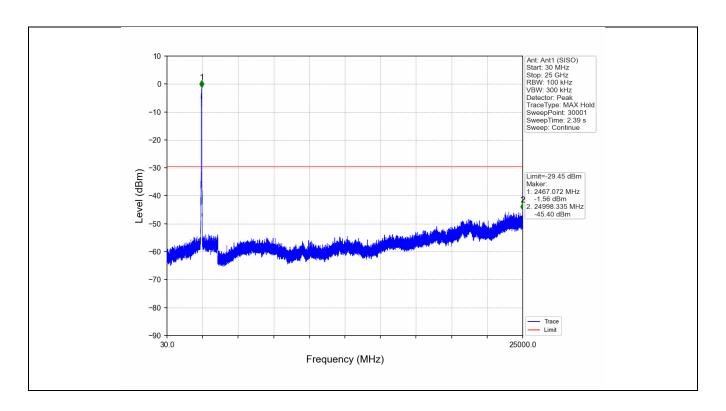


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