

Appendix A for SHEM210600661401

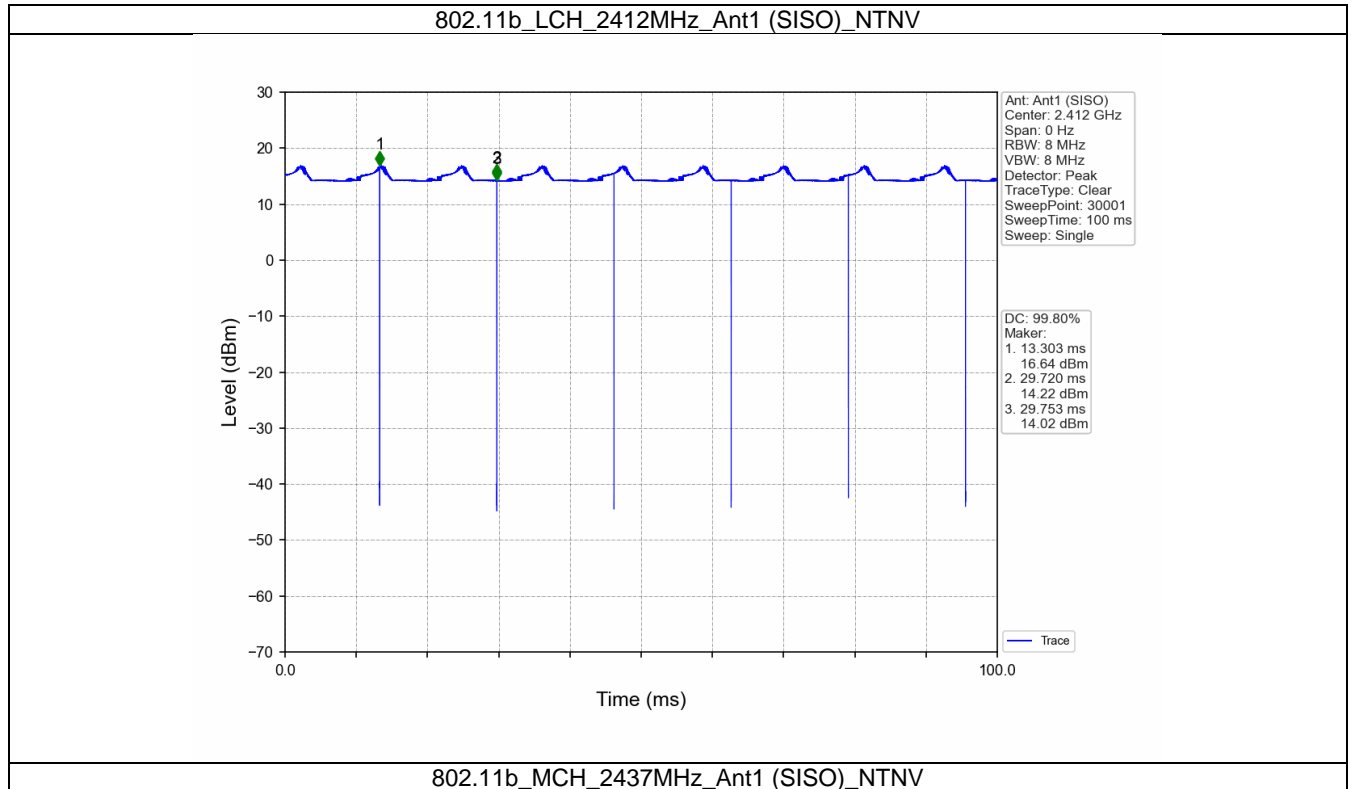
1. Duty Cycle

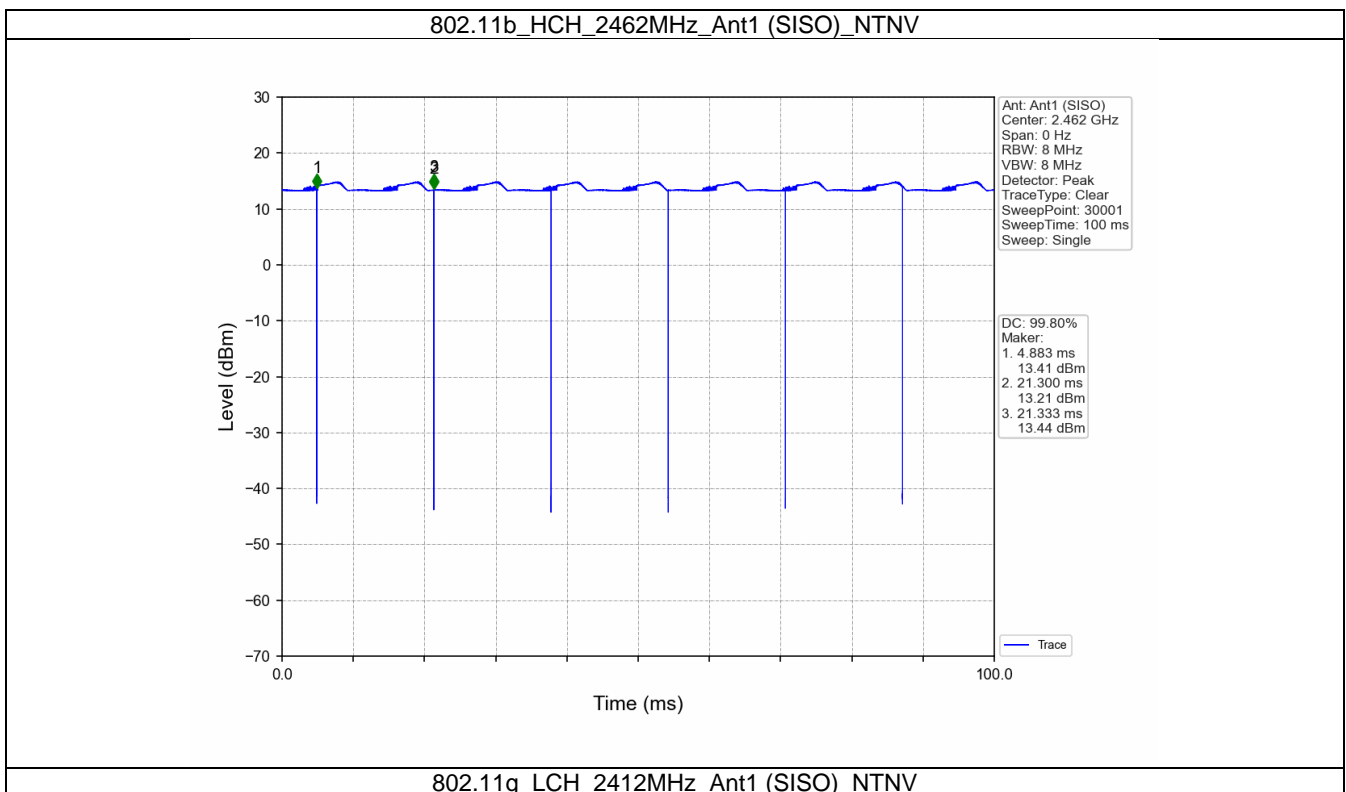
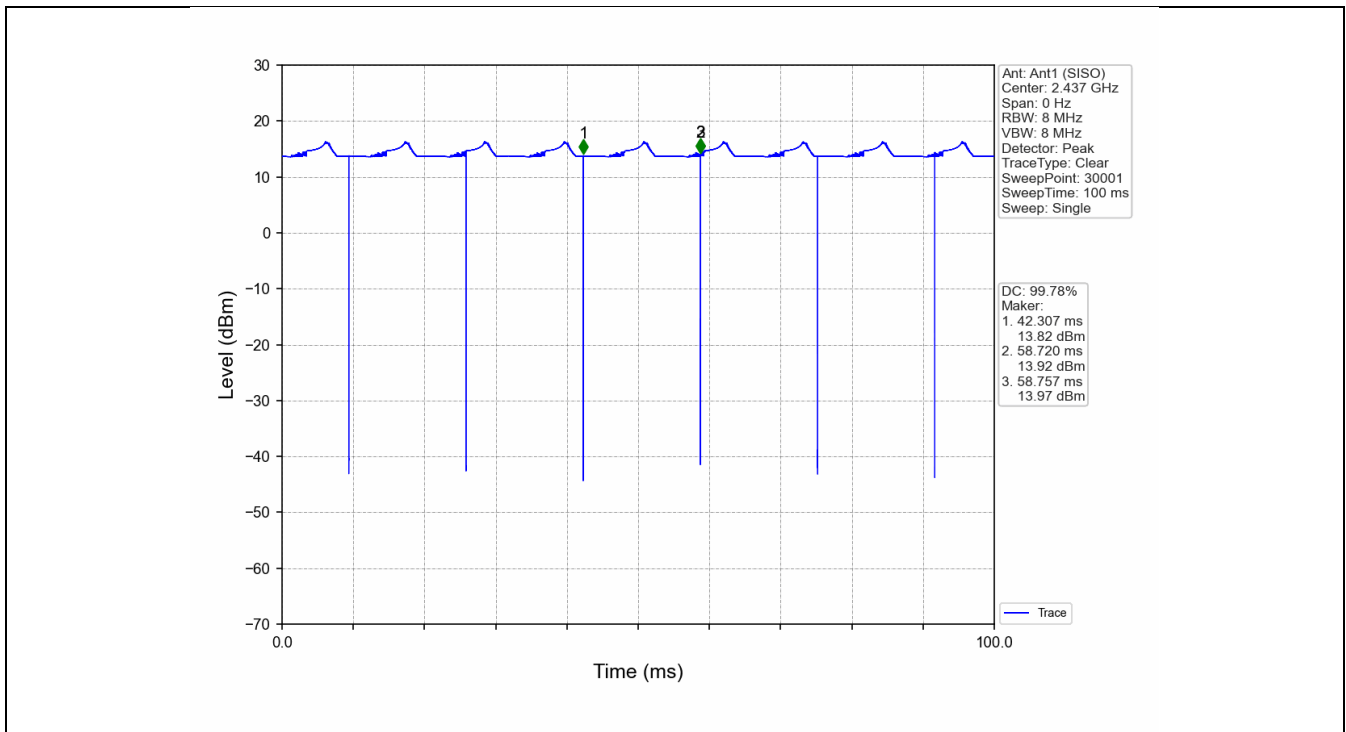
1.1 Ant1

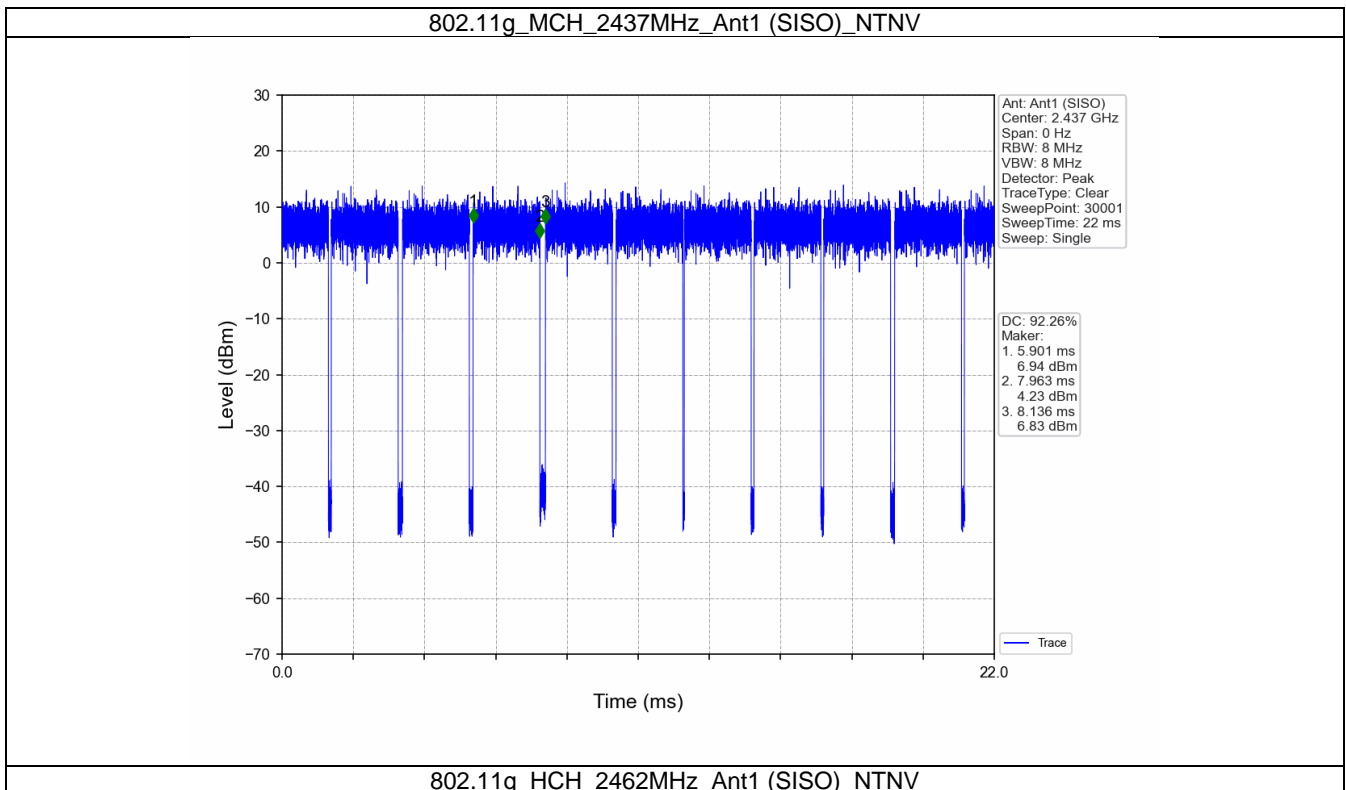
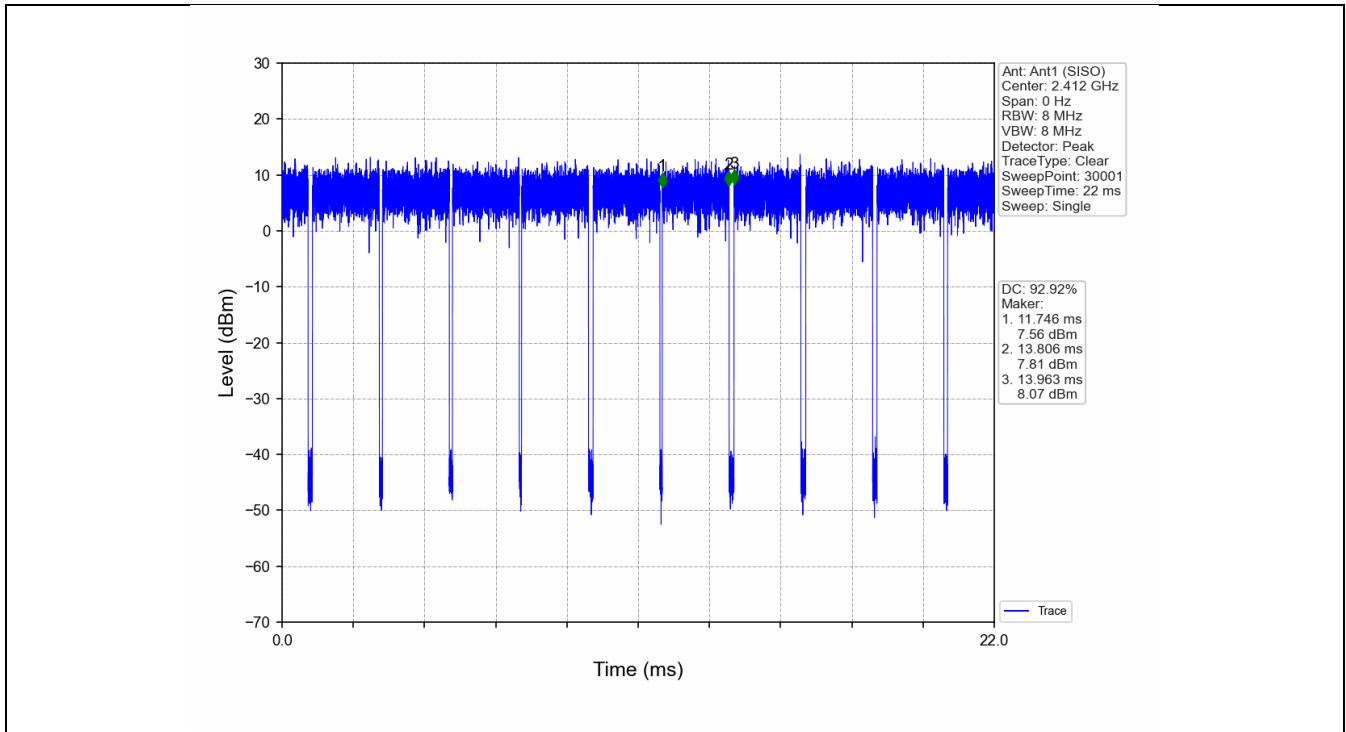
1.1.1 Test Result

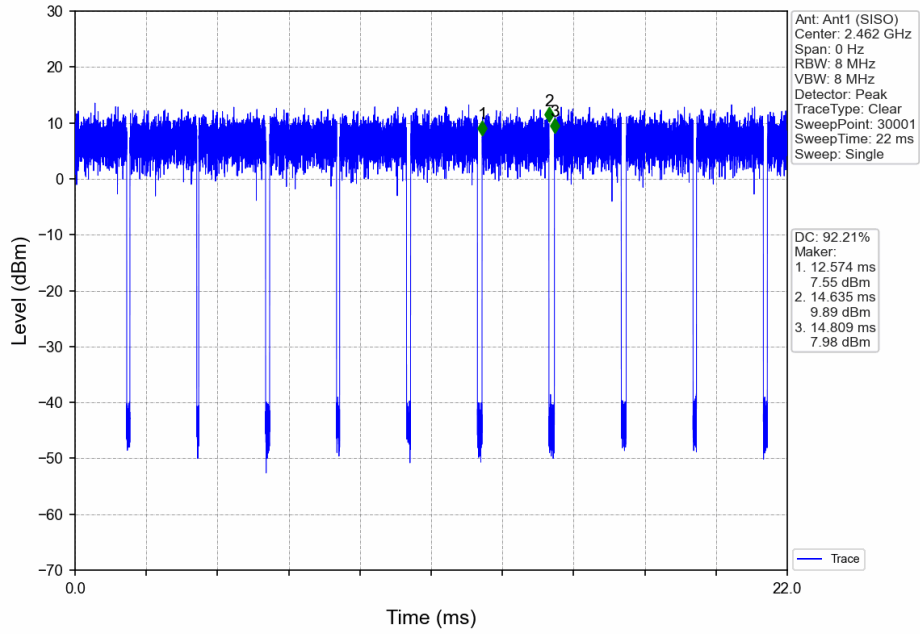
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	16.417	16.450	99.80	0.01	0.00
		2437	16.413	16.450	99.78	0.01	0.02
		2462	16.417	16.450	99.80	0.01	0.00
802.11g	SISO	2412	2.060	2.217	92.92	0.32	3.54
		2437	2.062	2.235	92.26	0.35	5.52
		2462	2.061	2.235	92.21	0.35	4.67
802.11n (HT20)	SISO	2412	1.916	2.091	91.63	0.38	4.99
		2437	1.917	2.091	91.68	0.38	5.93
		2462	1.918	2.090	91.77	0.37	6.35

1.1.2 Test Graph

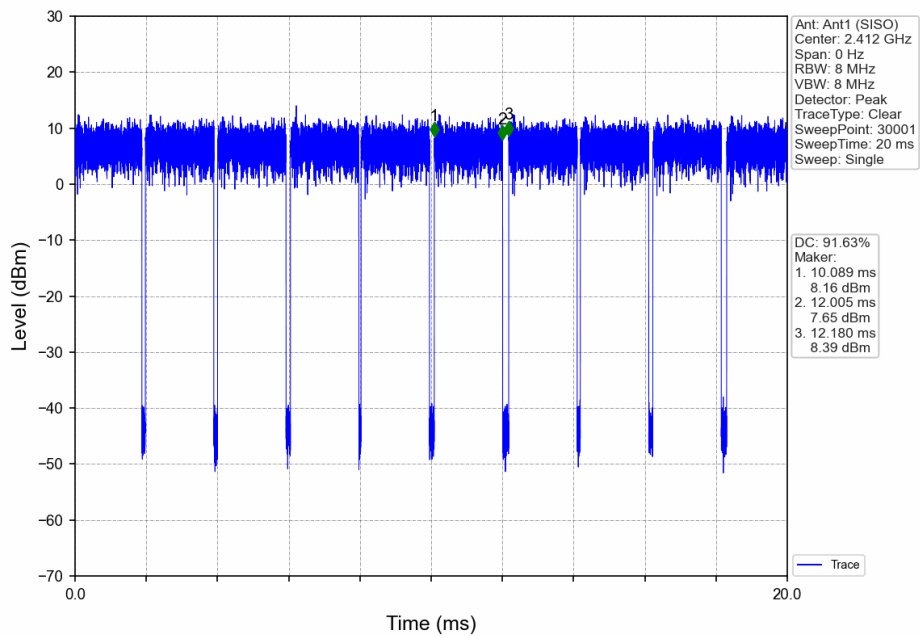




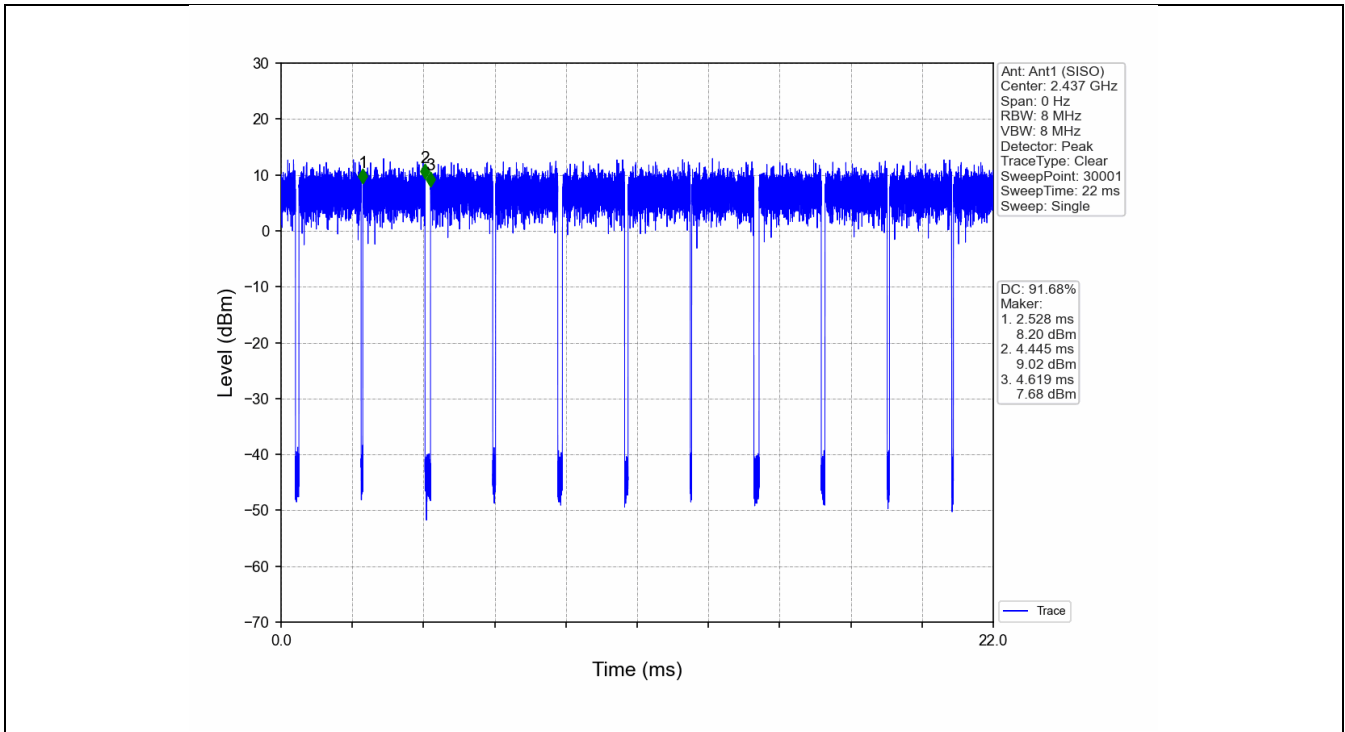


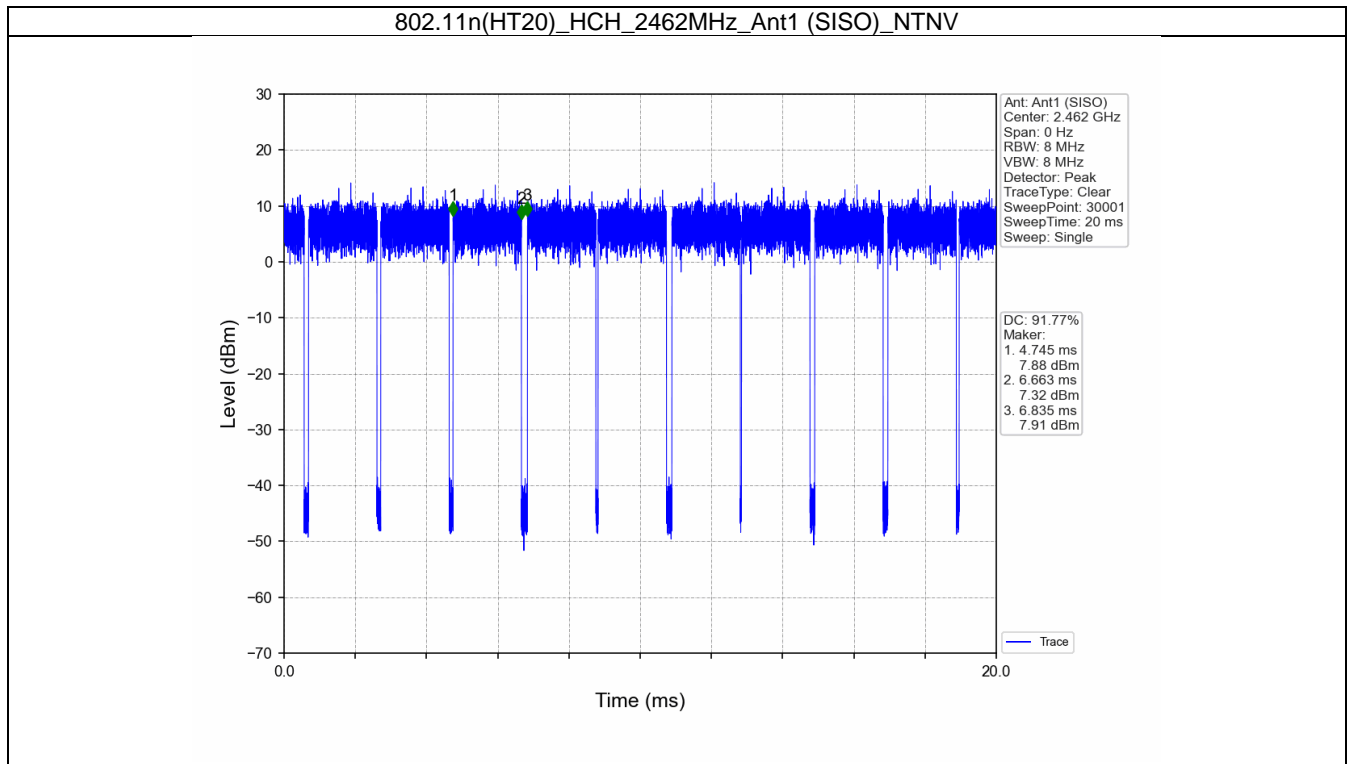


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





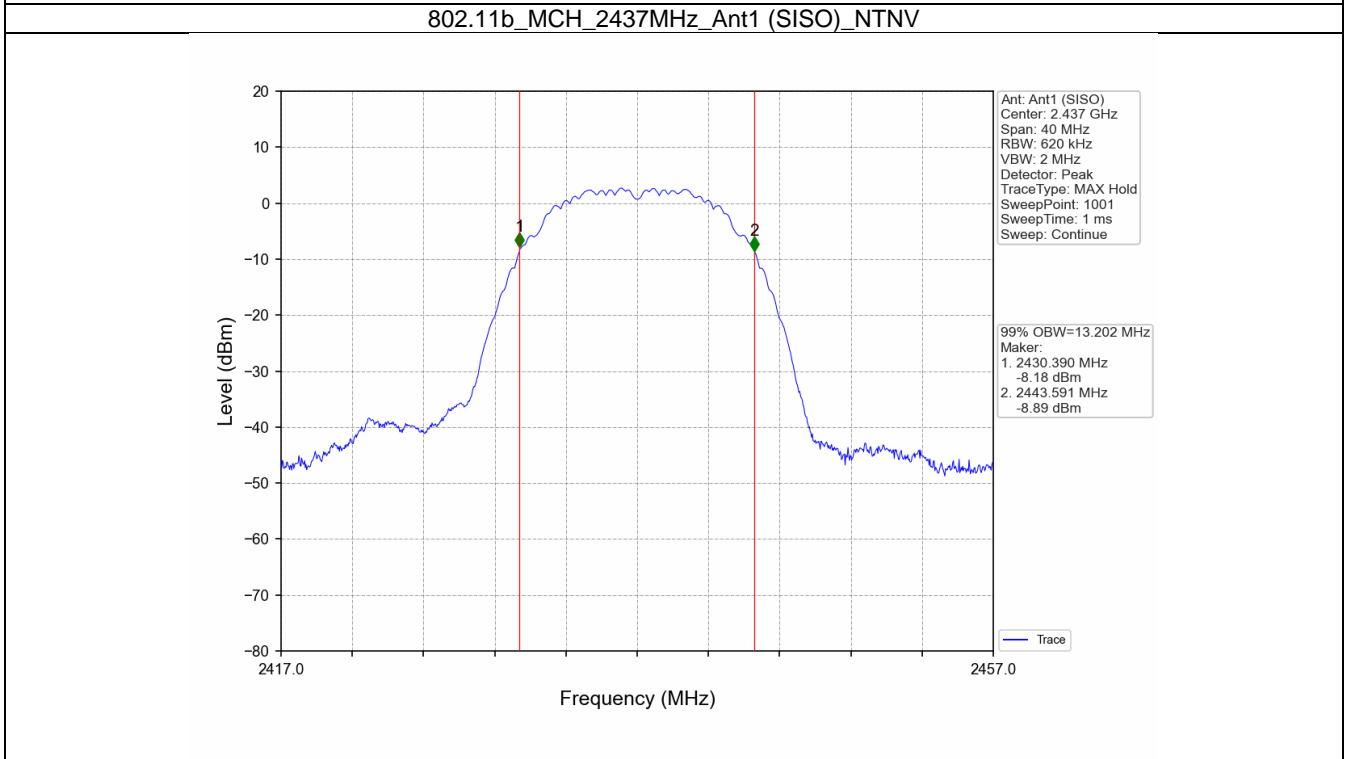
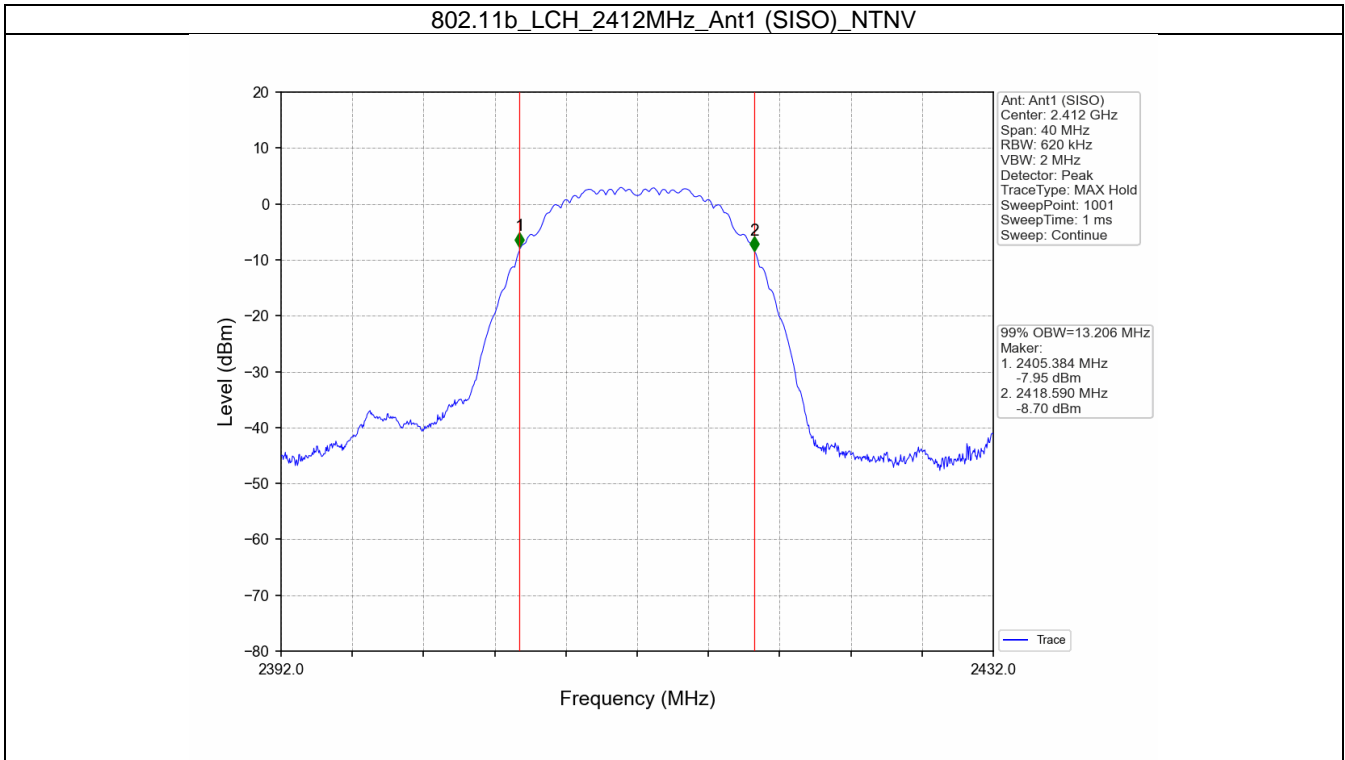
2. Bandwidth

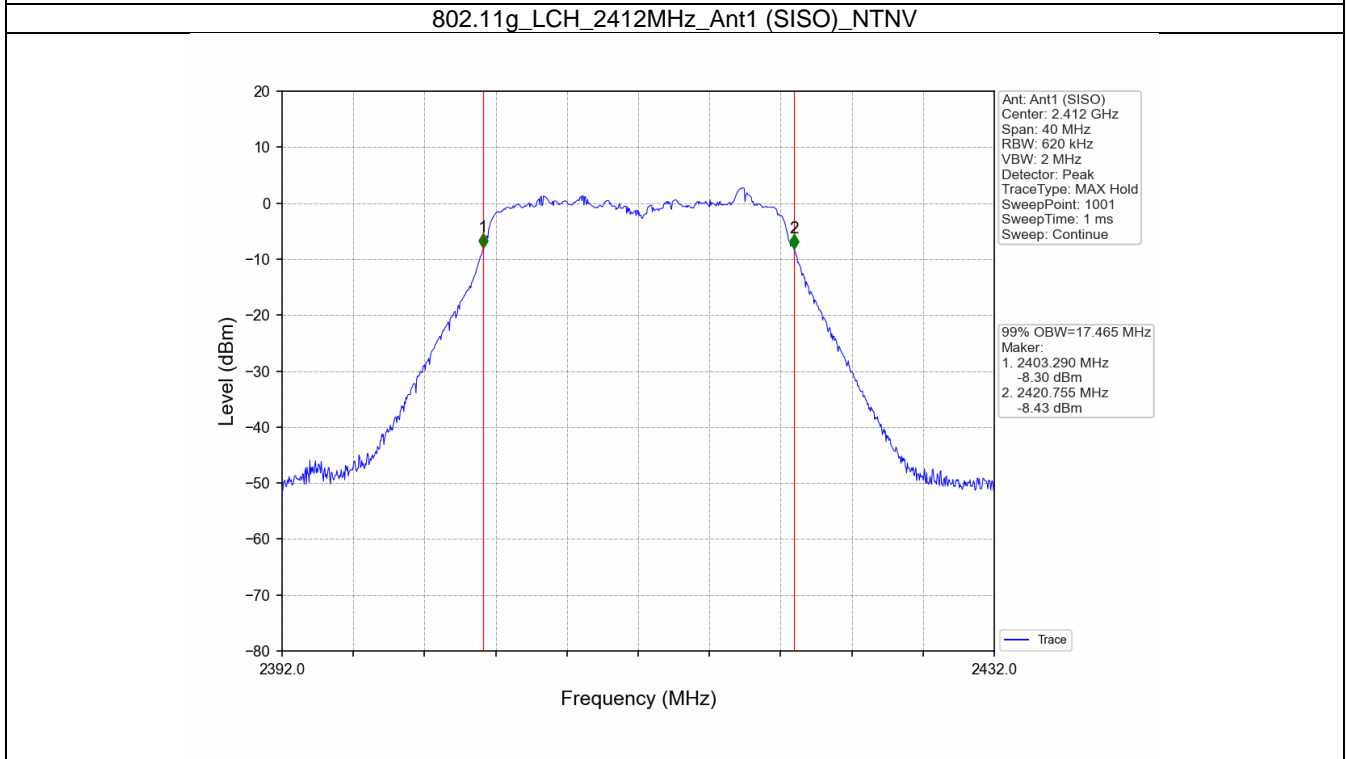
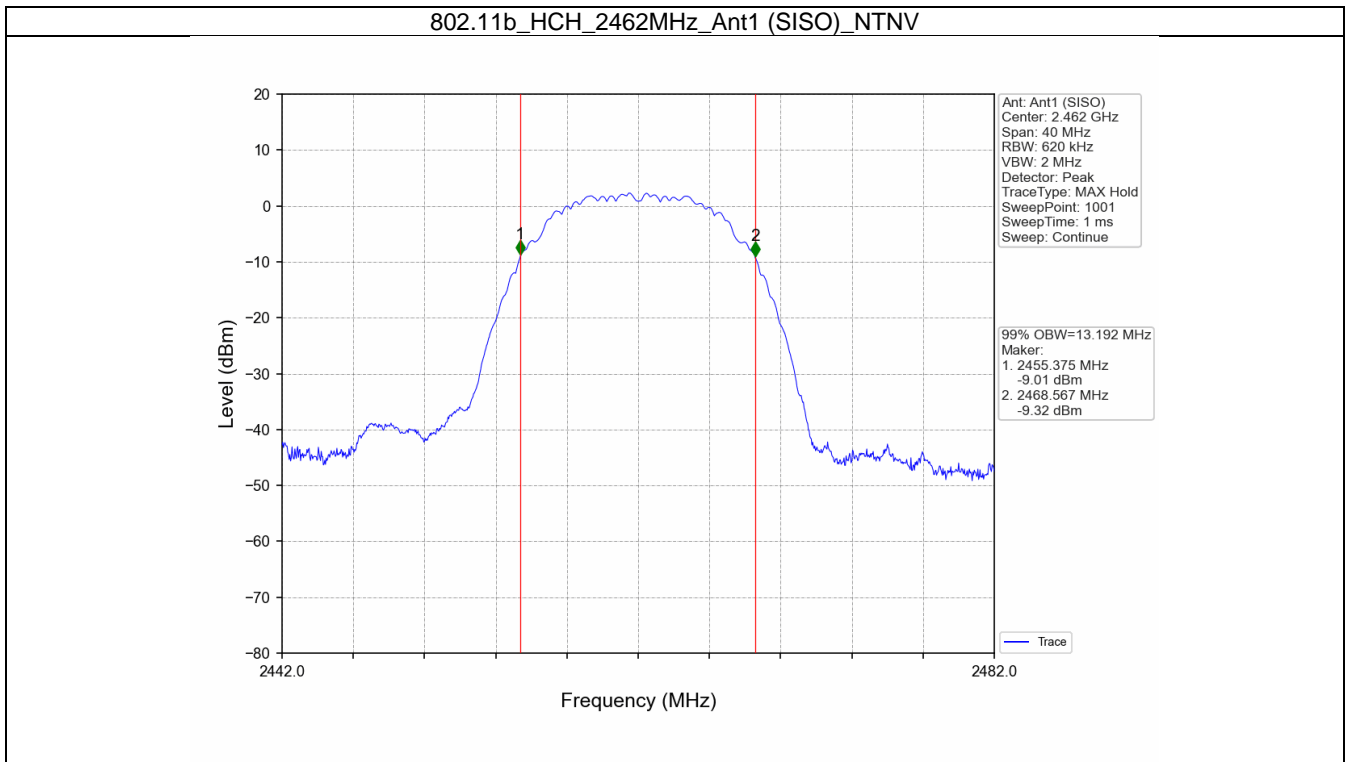
2.1 OBW

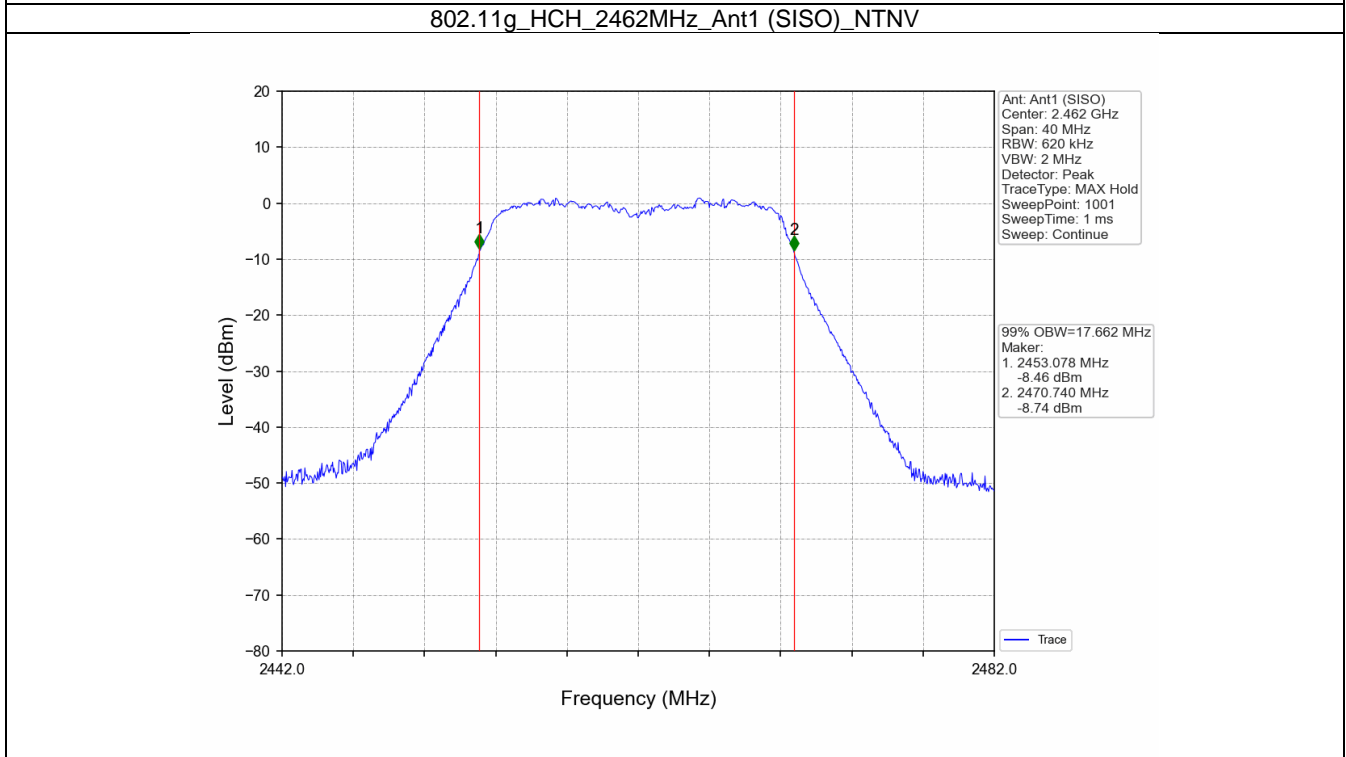
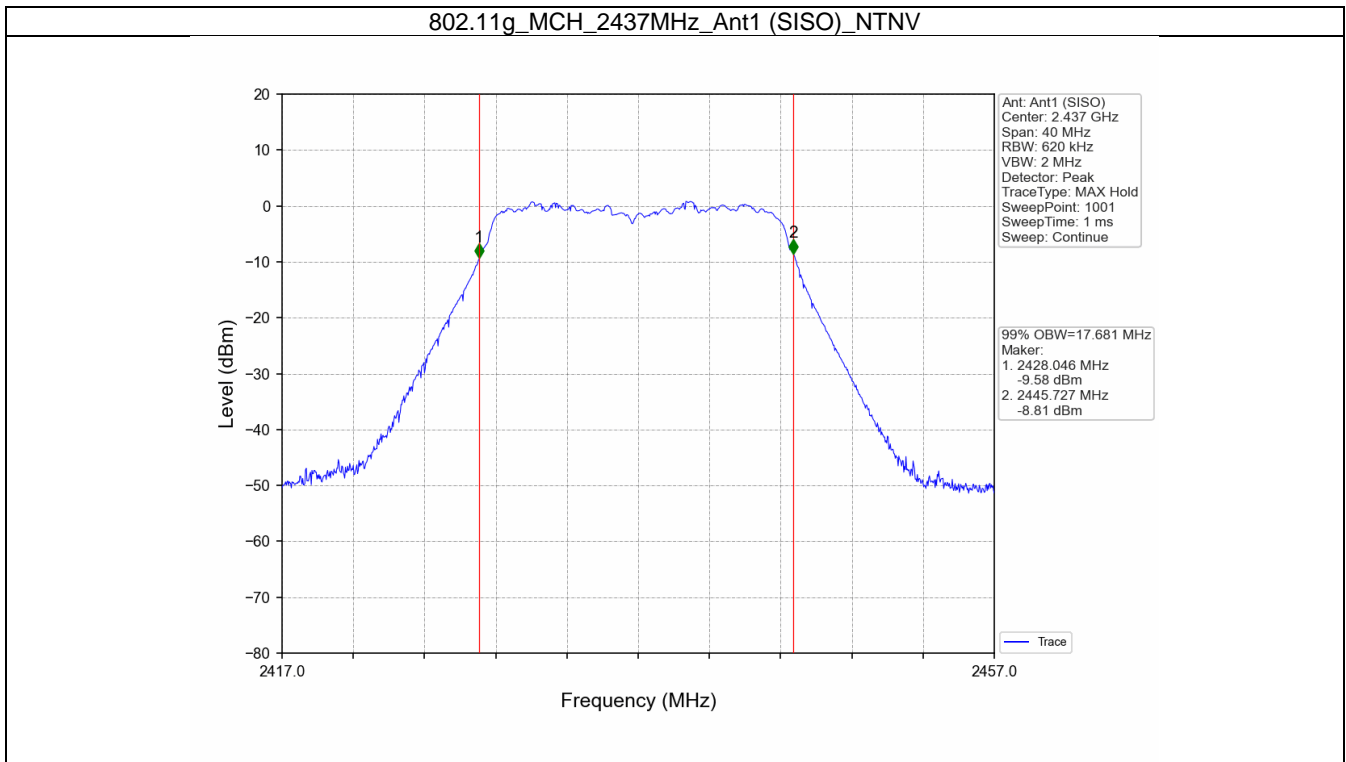
2.1.1 Test Result

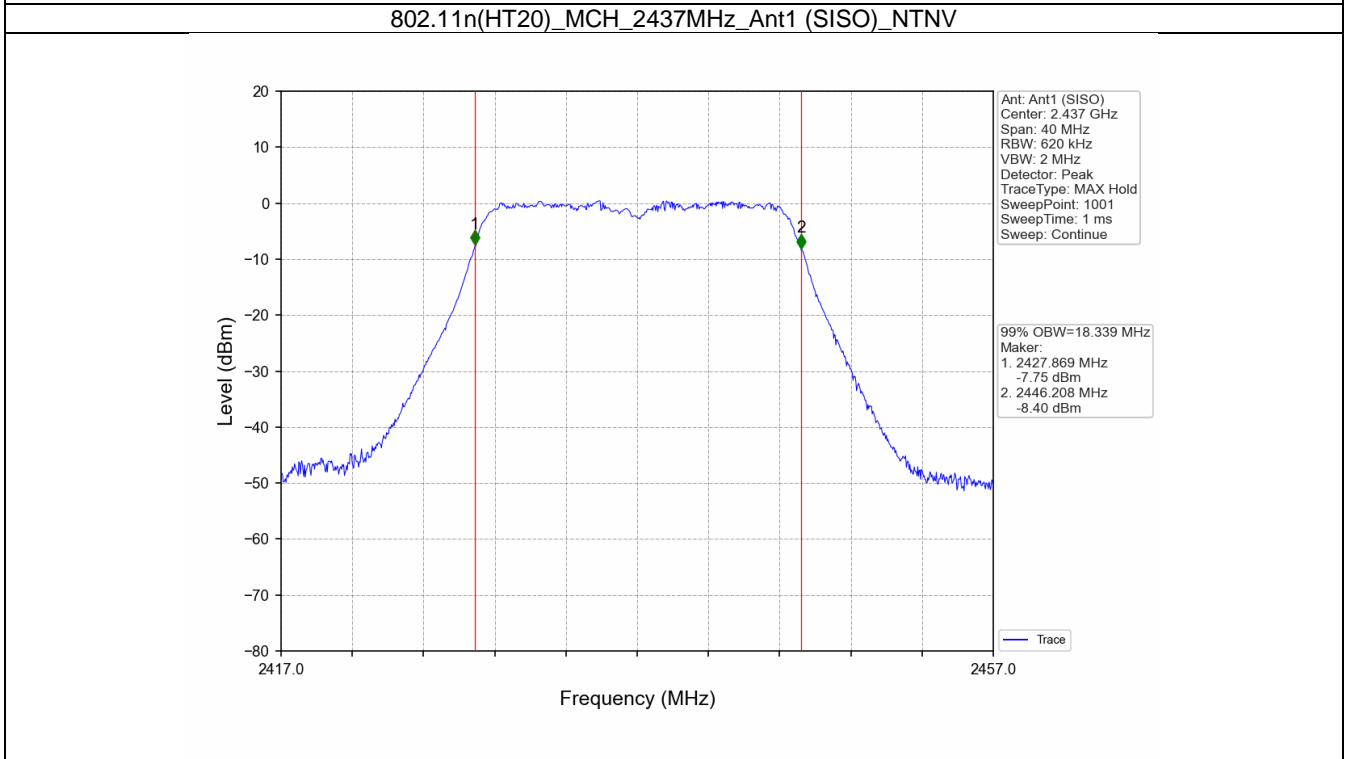
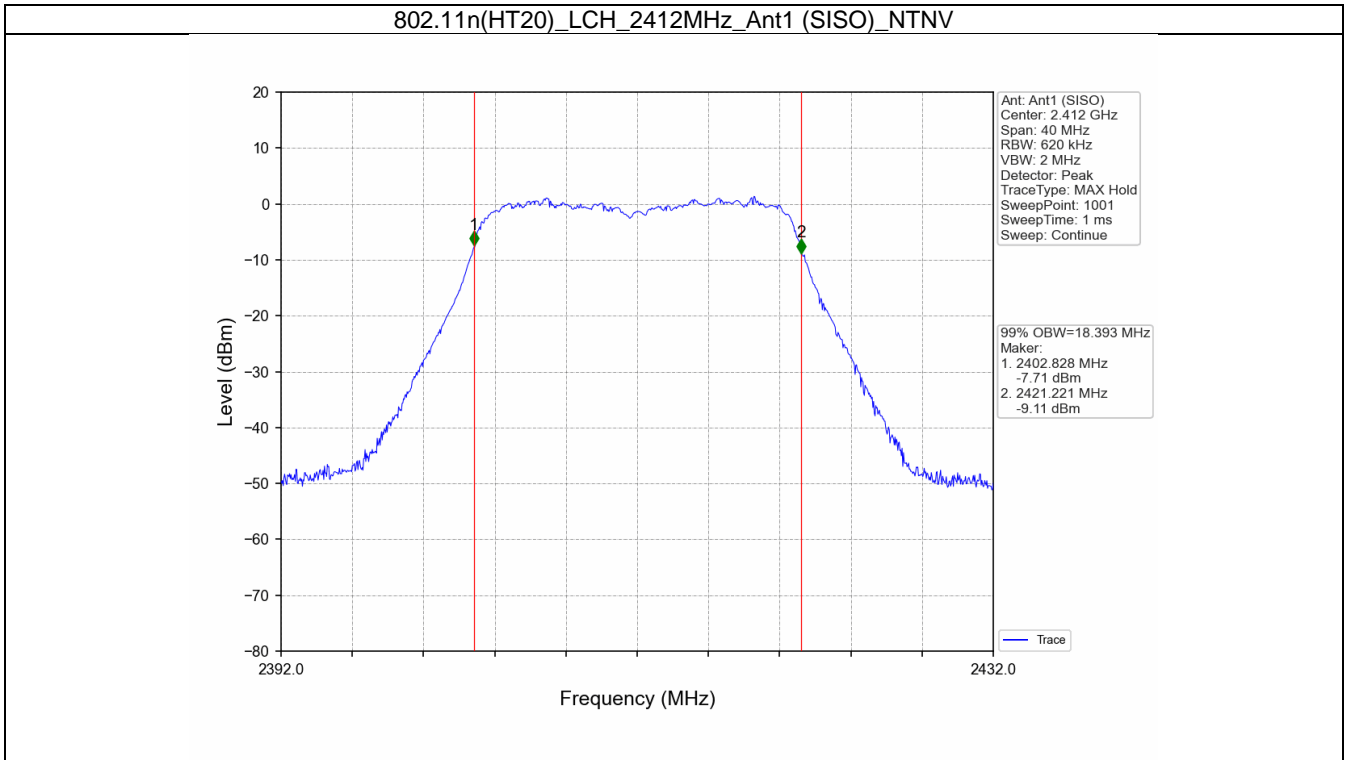
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	SISO	2412	1	13.206	/	Pass
		2437	1	13.202	/	Pass
		2462	1	13.192	/	Pass
802.11g	SISO	2412	1	17.465	/	Pass
		2437	1	17.681	/	Pass
		2462	1	17.662	/	Pass
802.11n (HT20)	SISO	2412	1	18.393	/	Pass
		2437	1	18.339	/	Pass
		2462	1	18.507	/	Pass

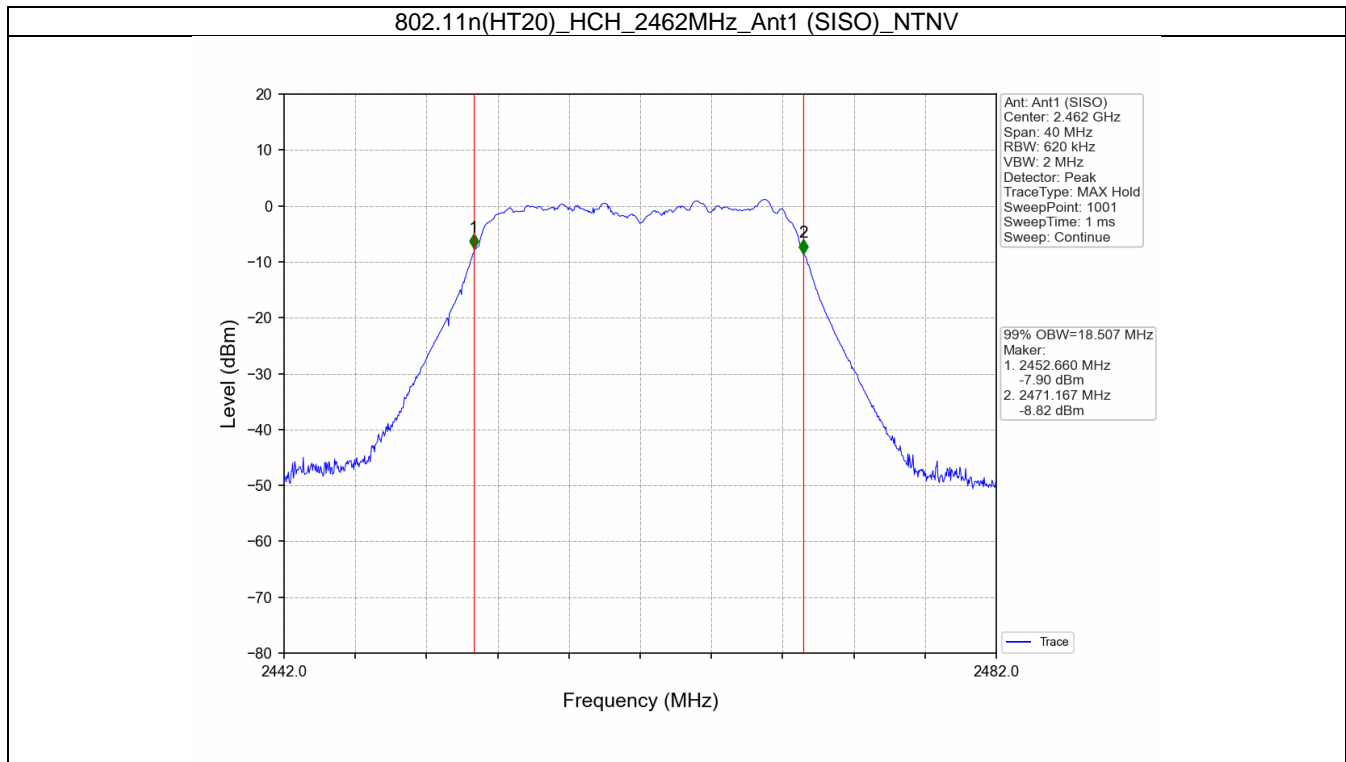
2.1.2 Test Graph









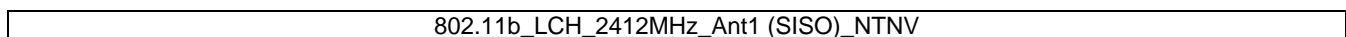


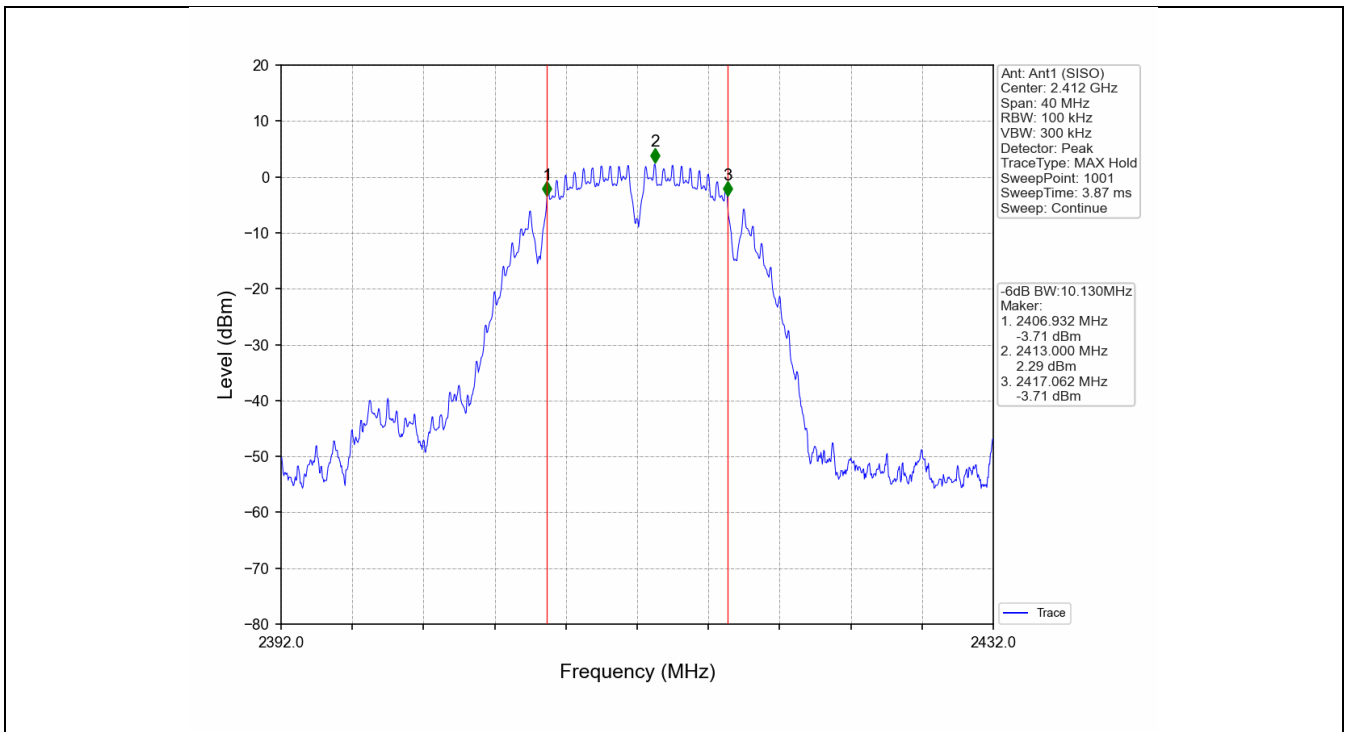
2.2 6dB BW

2.2.1 Test Result

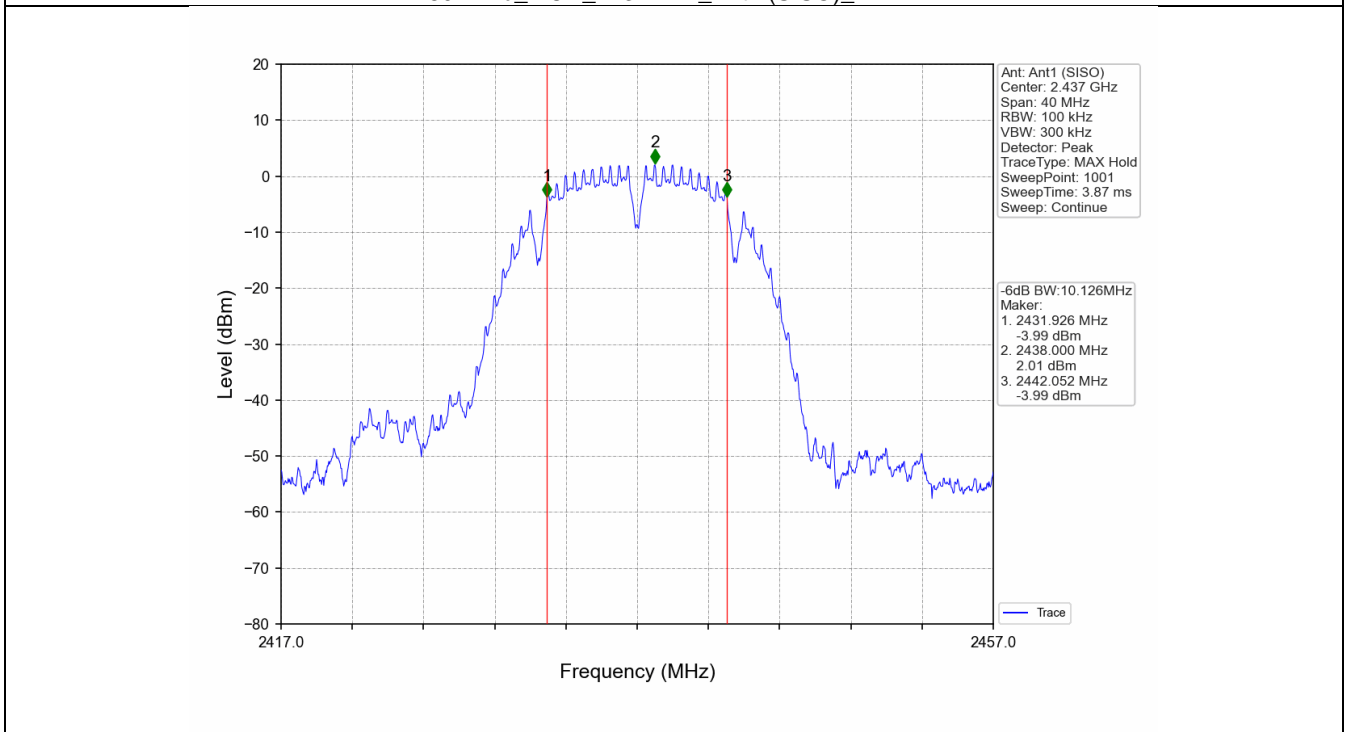
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	SISO	2412	1	10.130	>=0.5	Pass
		2437	1	10.126	>=0.5	Pass
		2462	1	10.119	>=0.5	Pass
802.11g	SISO	2412	1	16.356	>=0.5	Pass
		2437	1	16.349	>=0.5	Pass
		2462	1	16.377	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.337	>=0.5	Pass
		2437	1	17.080	>=0.5	Pass
		2462	1	17.183	>=0.5	Pass

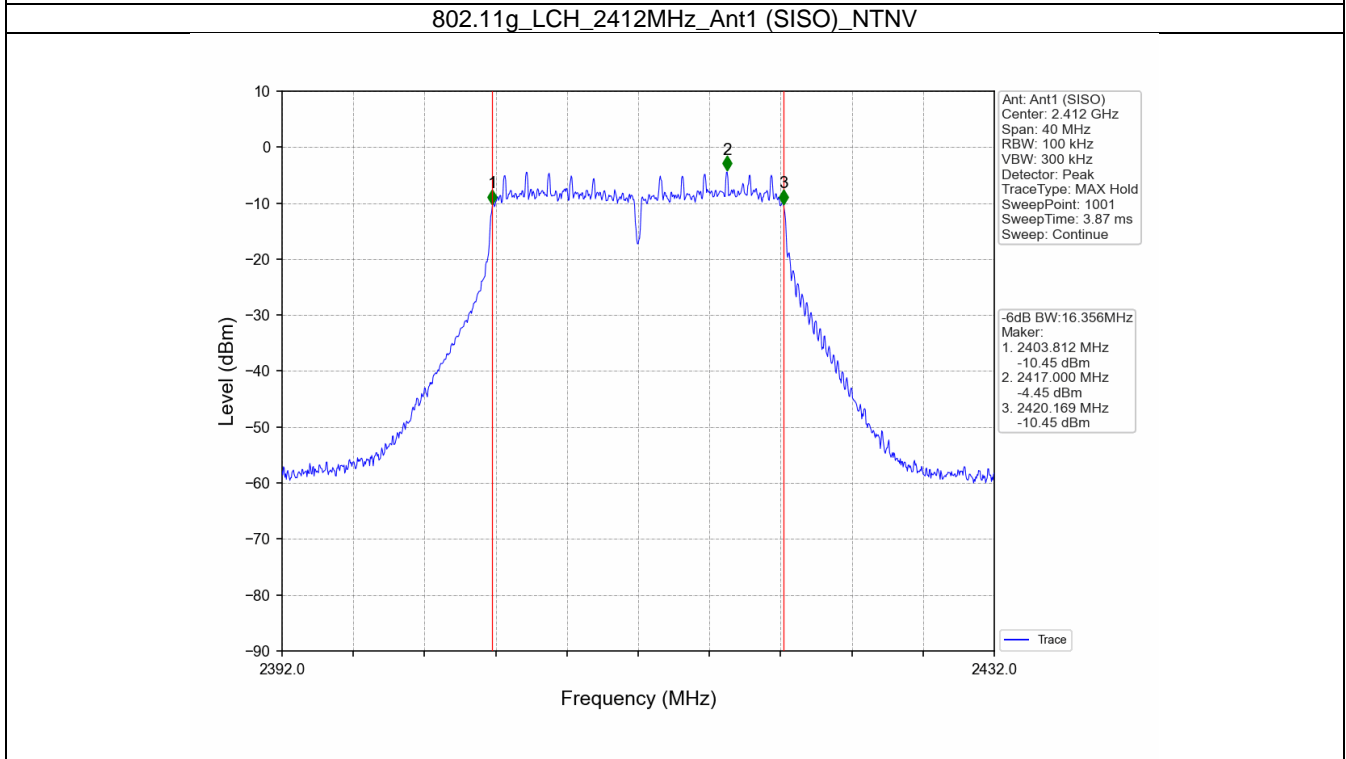
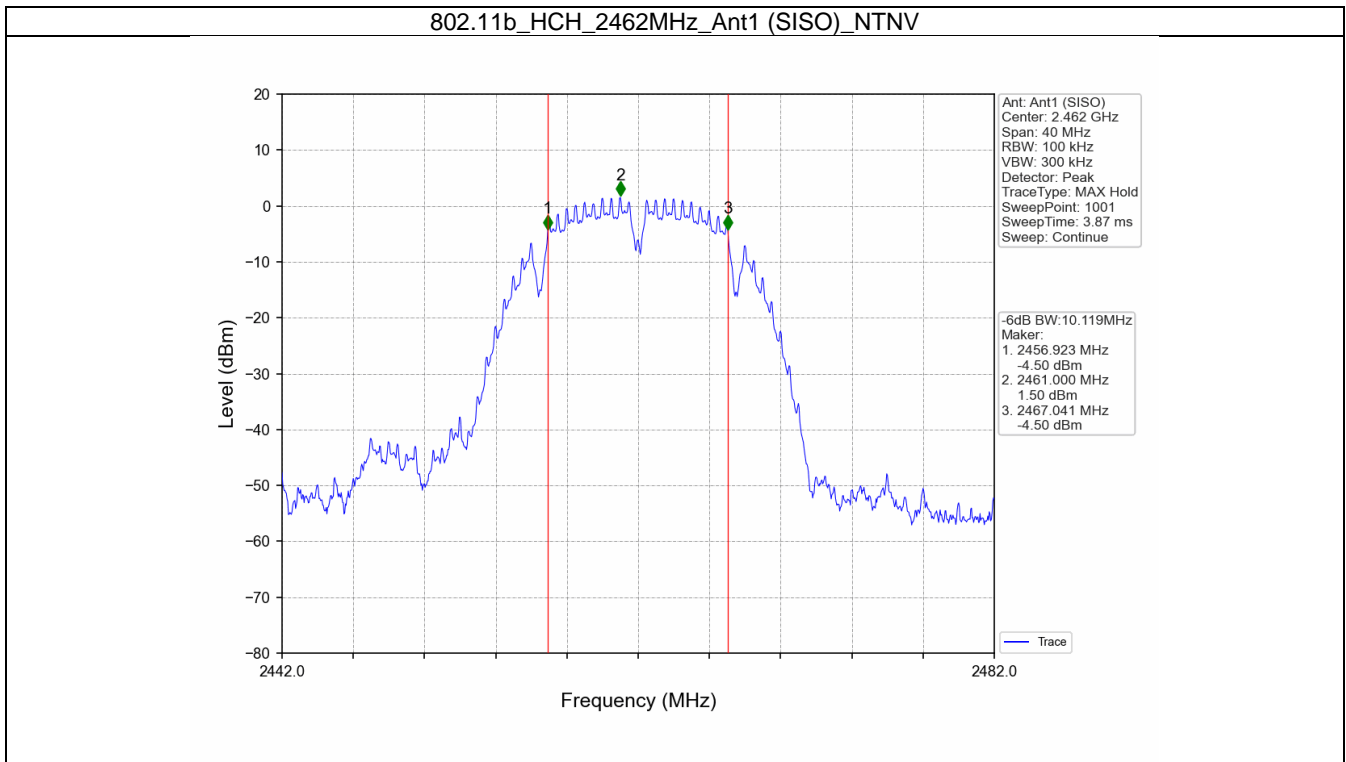
2.2.2 Test Graph

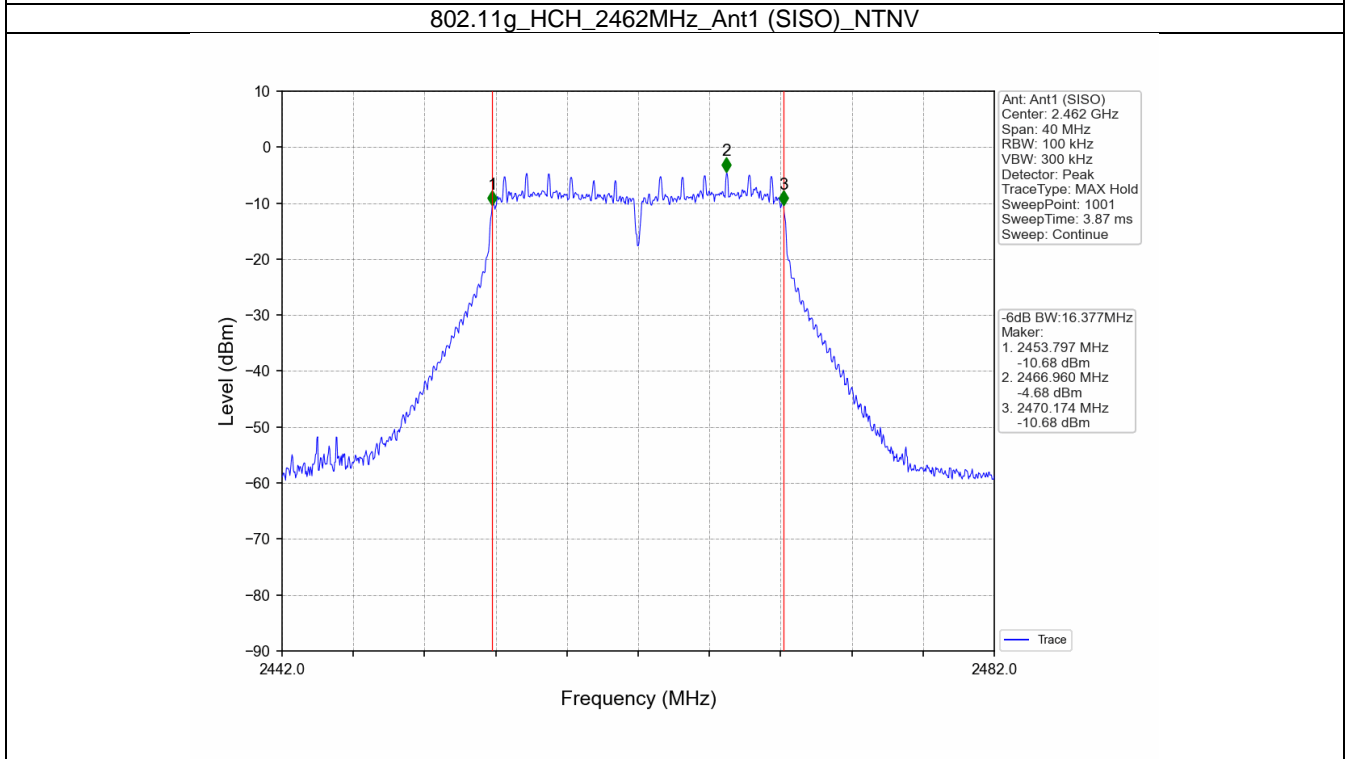
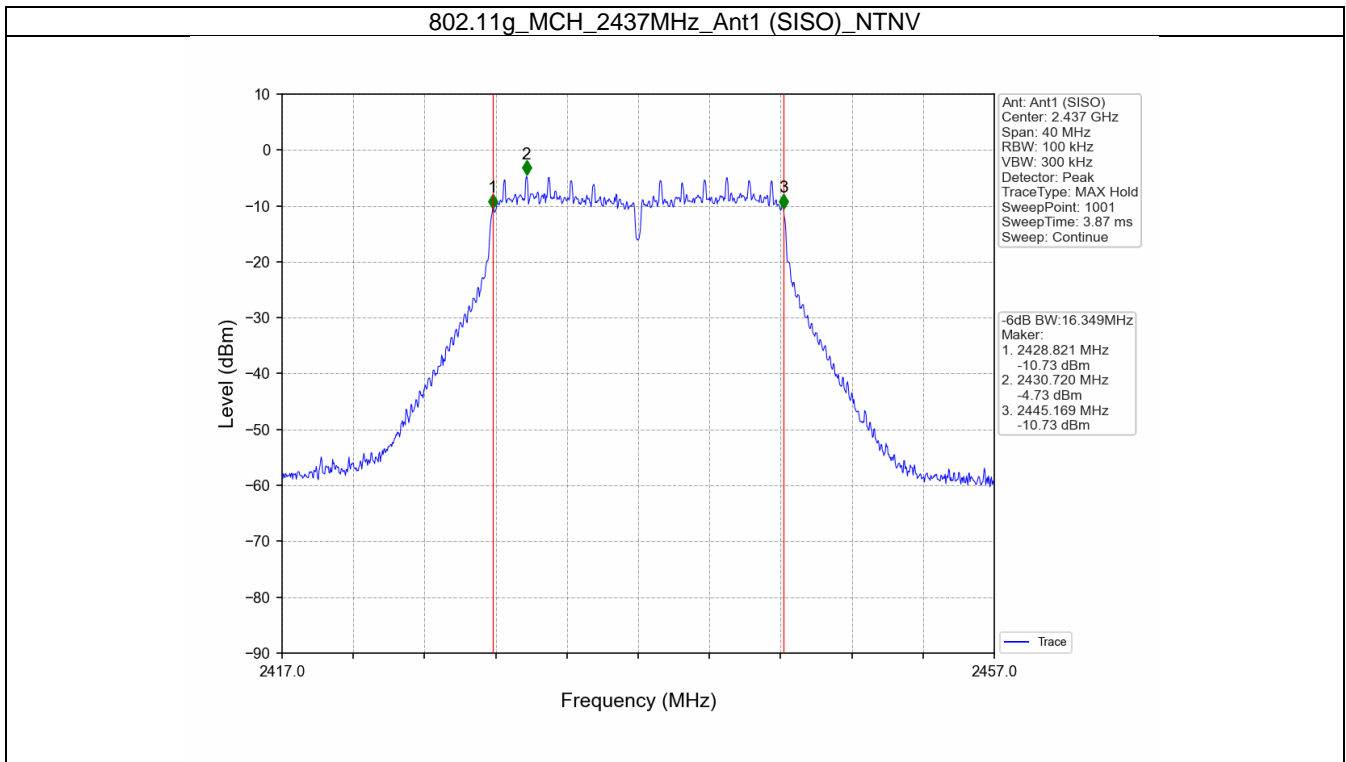


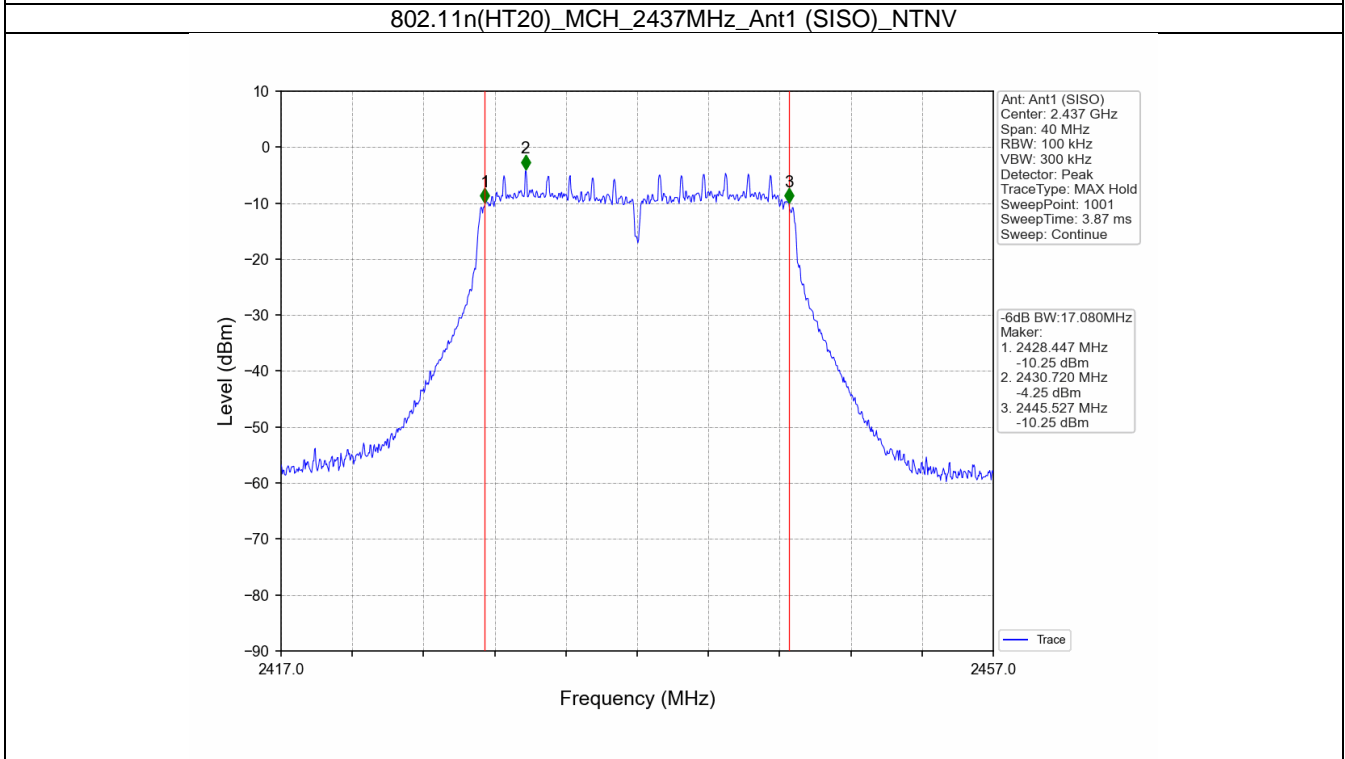
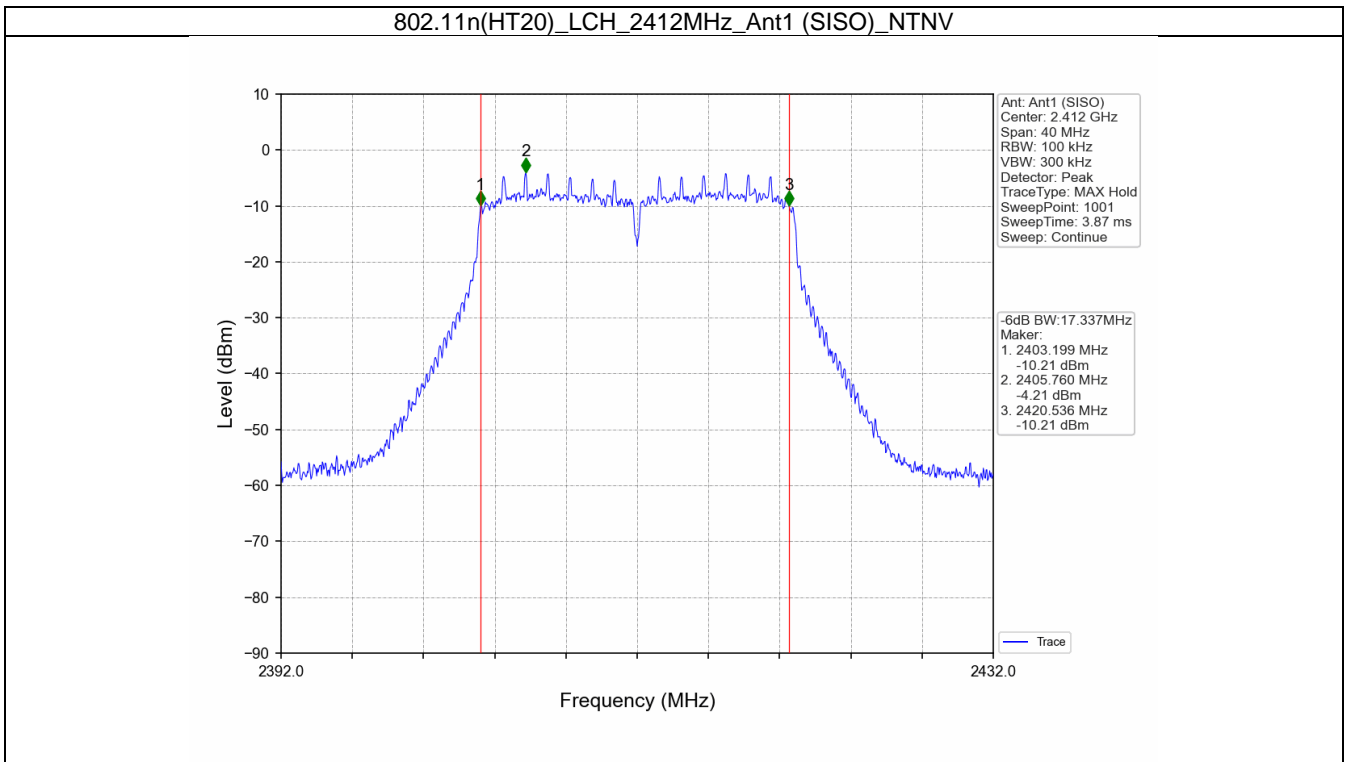


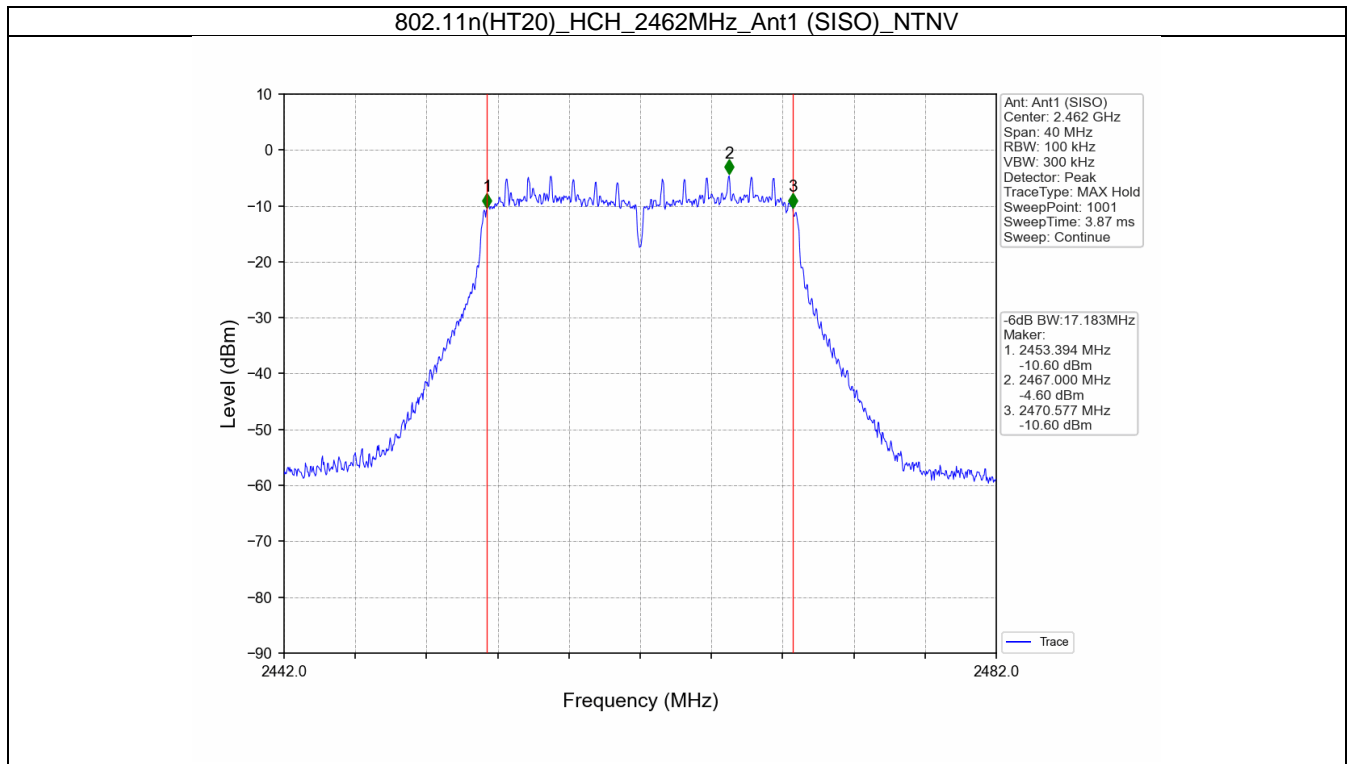
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV











3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Peak Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	14.13	<=30	Pass
		2437	13.85	<=30	Pass
		2462	13.33	<=30	Pass
802.11g	SISO	2412	14.35	<=30	Pass
		2437	13.87	<=30	Pass
		2462	14.04	<=30	Pass
802.11n (HT20)	SISO	2412	14.51	<=30	Pass
		2437	14.23	<=30	Pass
		2462	14.11	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

4. Maximum Power Spectral Density

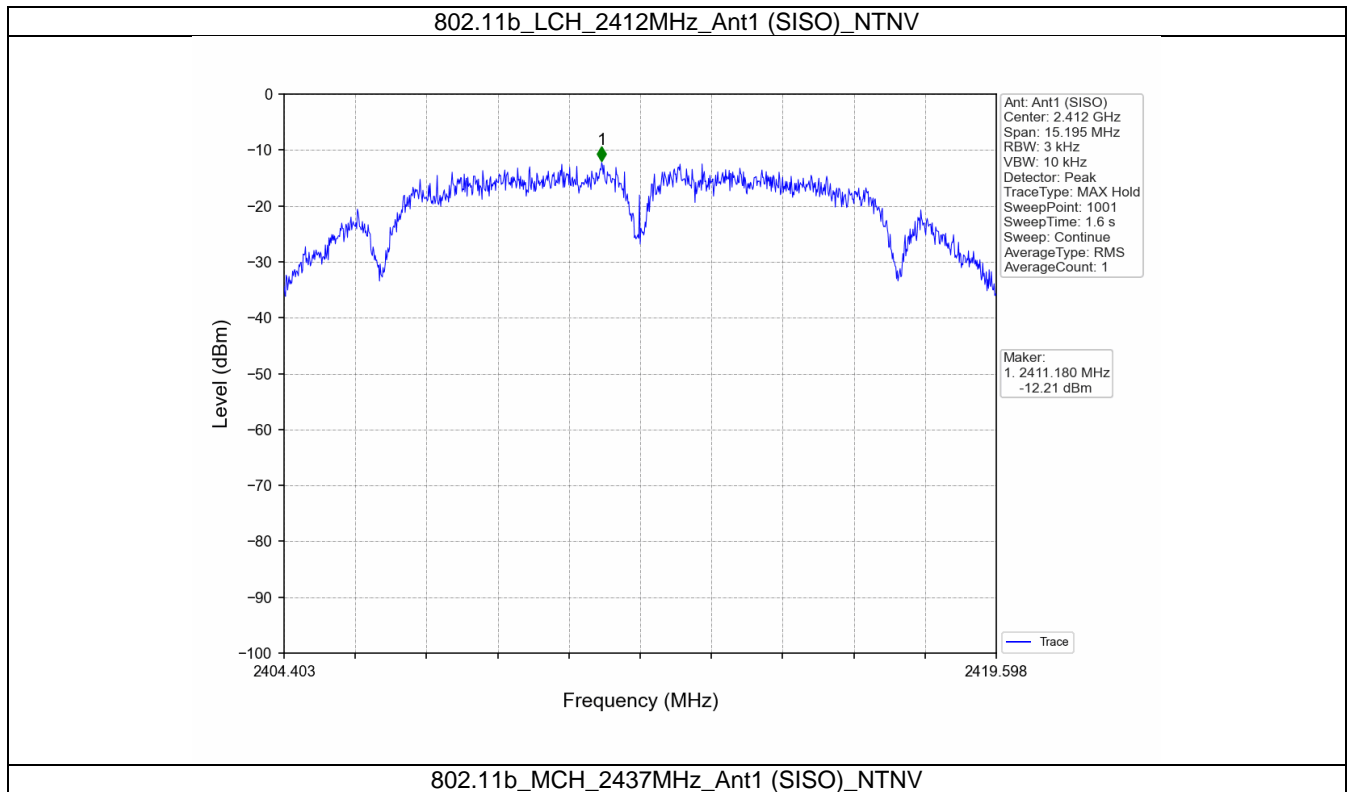
4.1 PSD

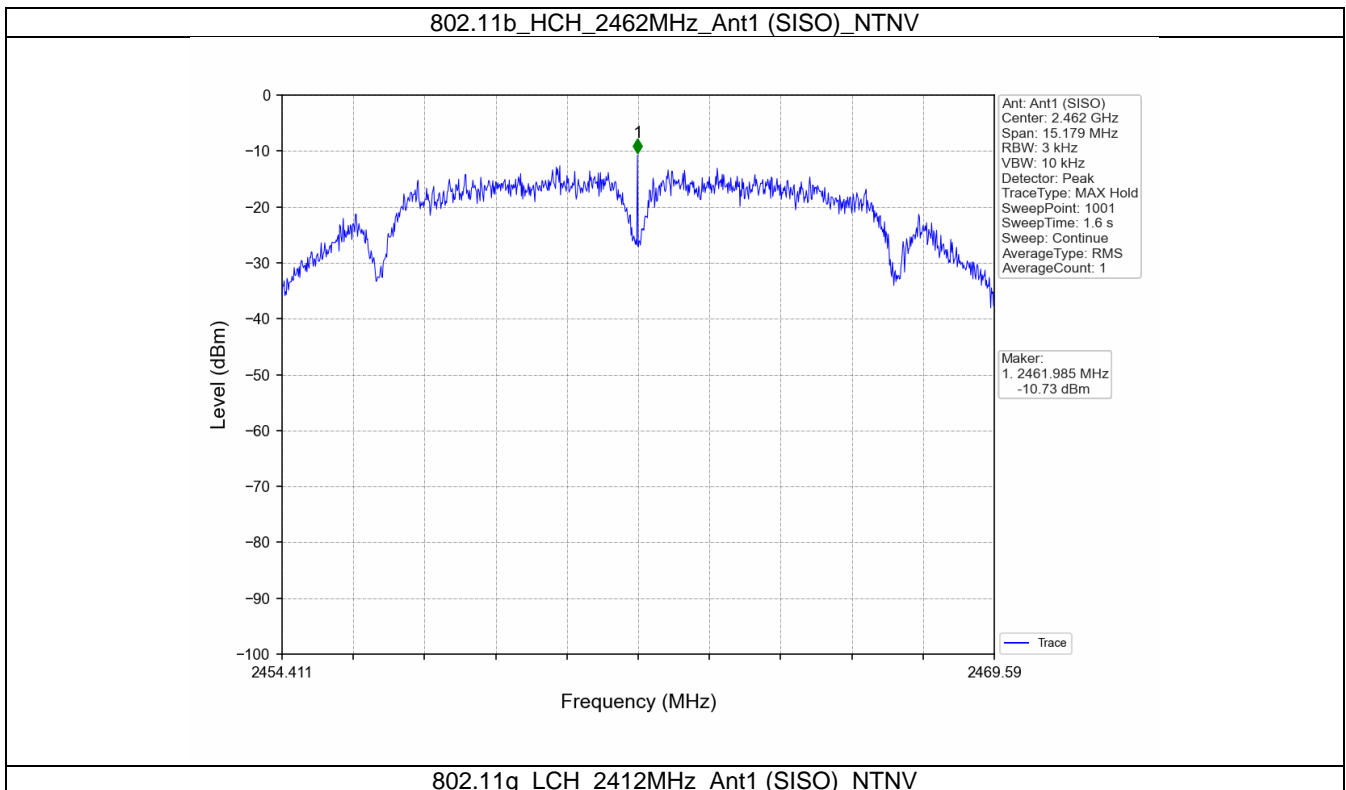
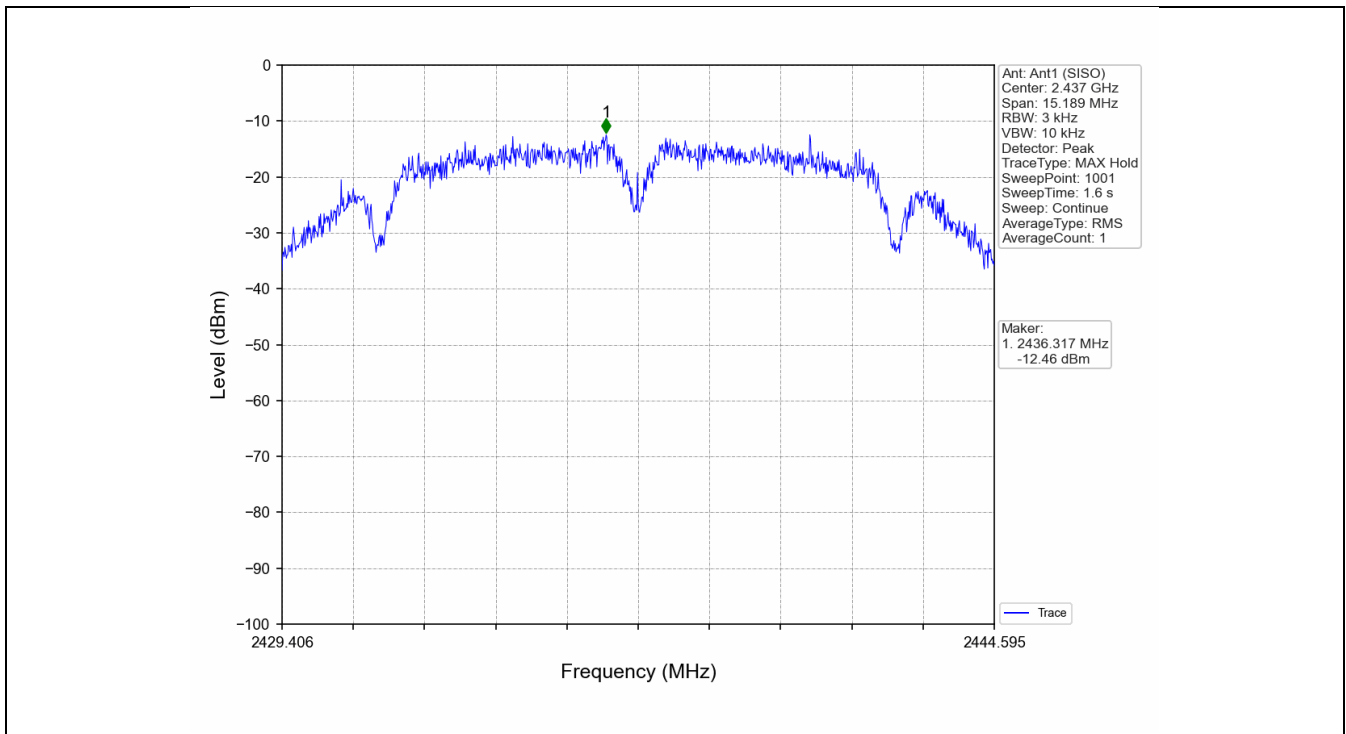
4.1.1 Test Result

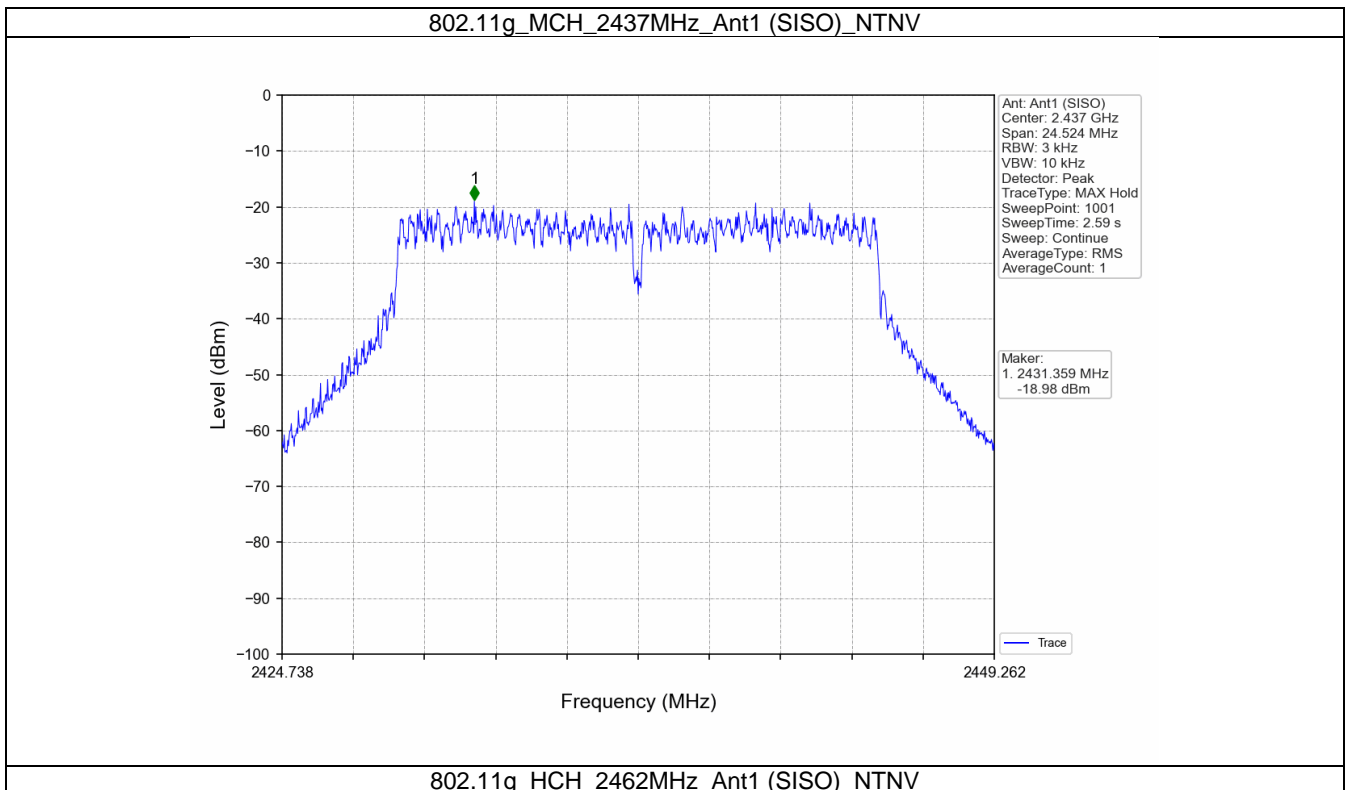
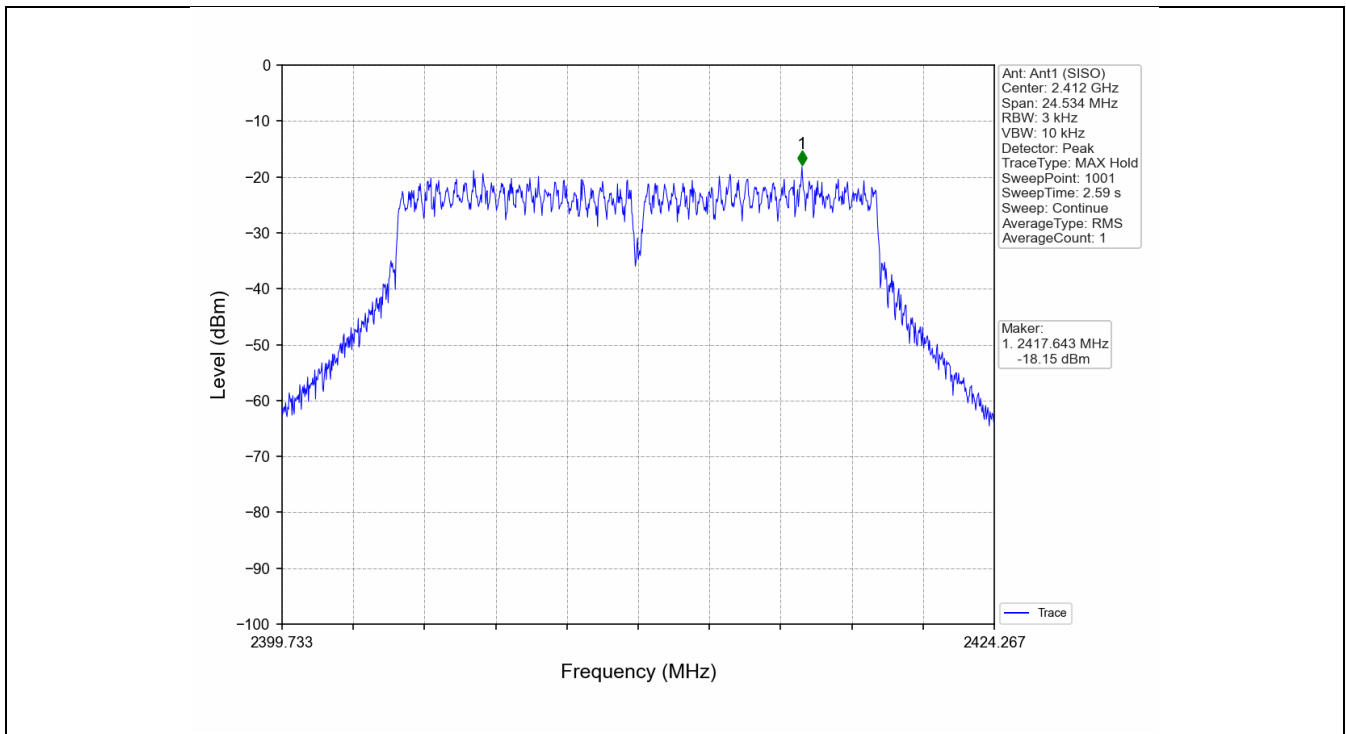
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-12.21	<=8	Pass
		2437	-12.46	<=8	Pass
		2462	-10.73	<=8	Pass
802.11g	SISO	2412	-18.15	<=8	Pass
		2437	-18.98	<=8	Pass
		2462	-19.09	<=8	Pass
802.11n (HT20)	SISO	2412	-18.35	<=8	Pass
		2437	-19.17	<=8	Pass
		2462	-19.67	<=8	Pass

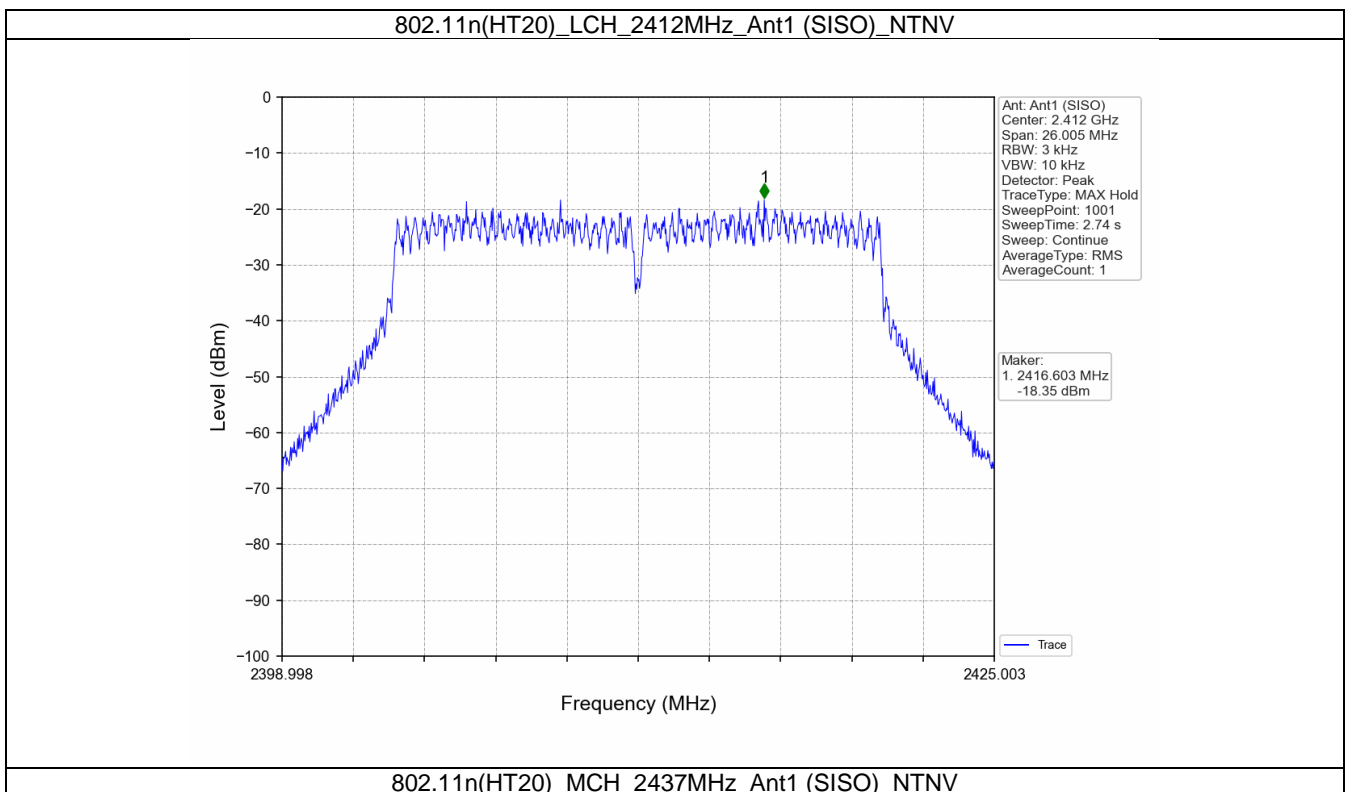
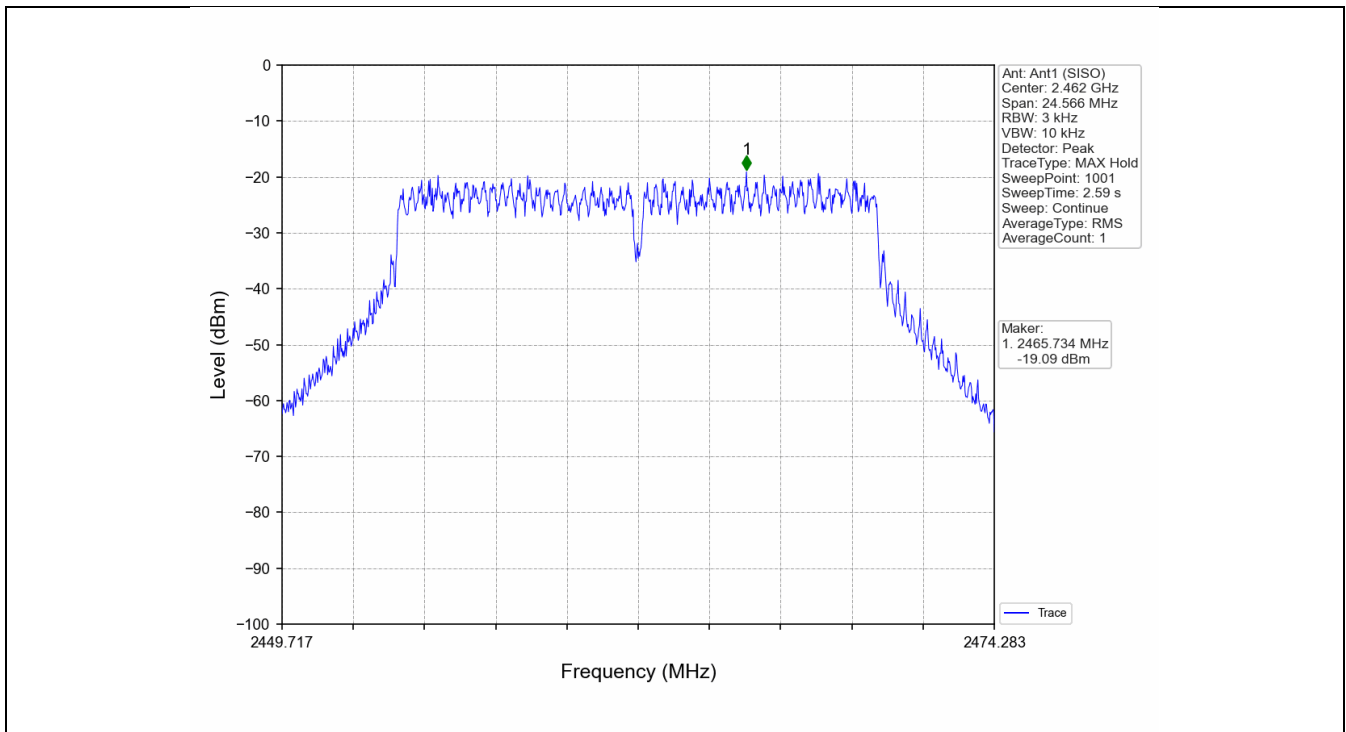
Note1: Antenna Gain: Ant1: 1.00dBi;

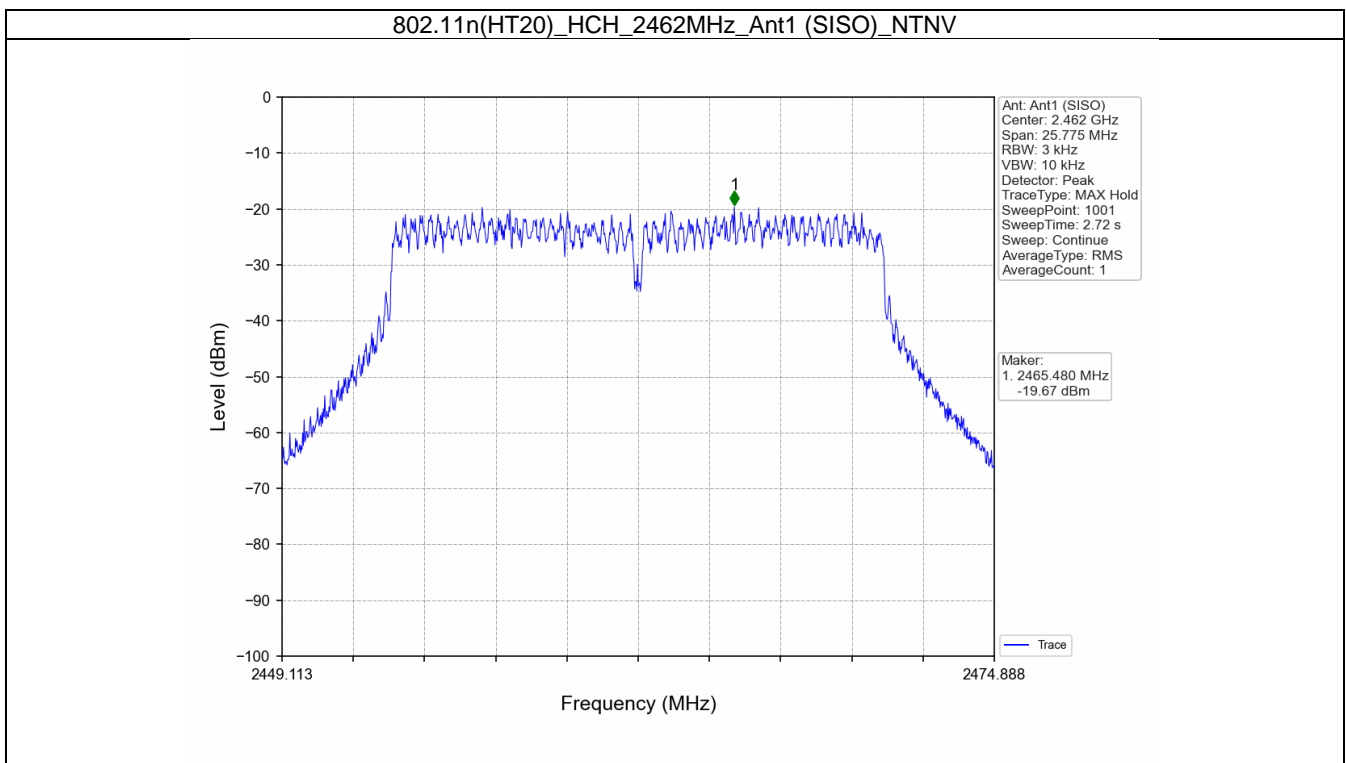
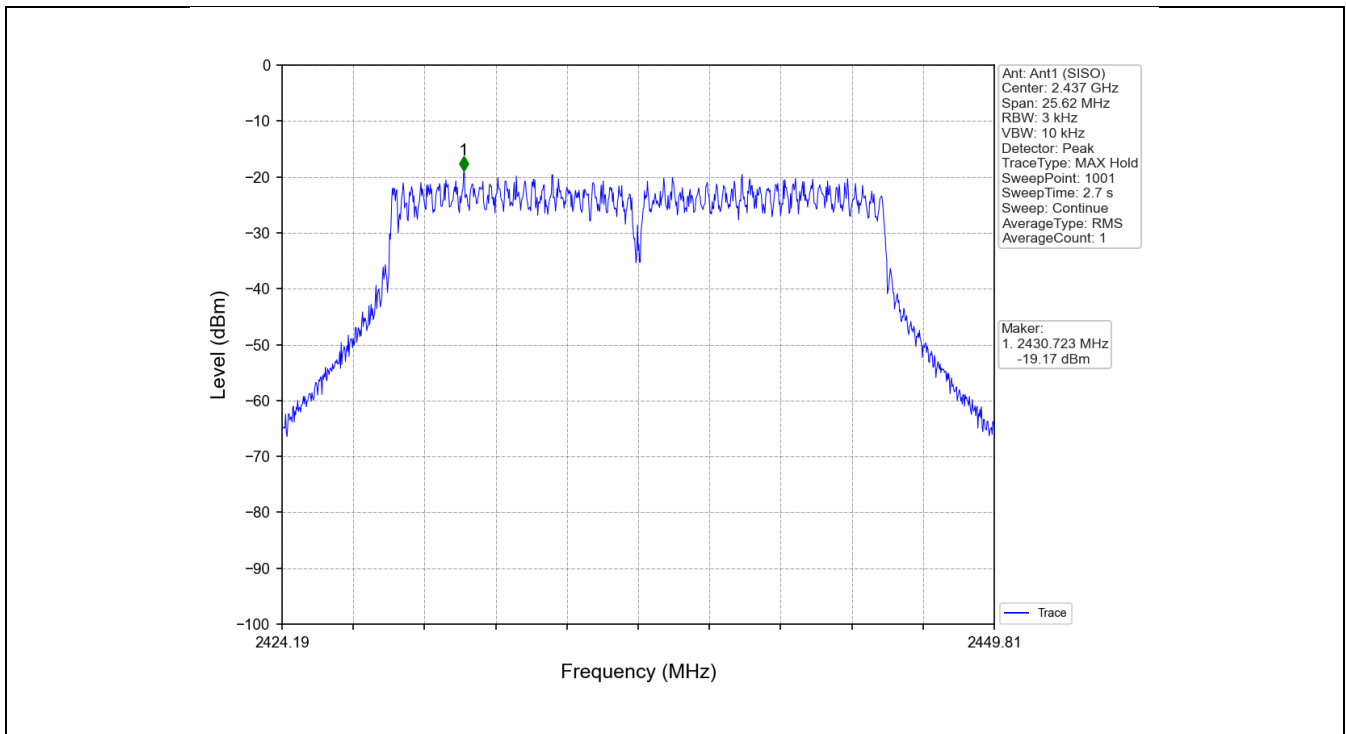
4.1.2 Test Graph











5. Unwanted Emissions In Non-restricted Frequency Bands

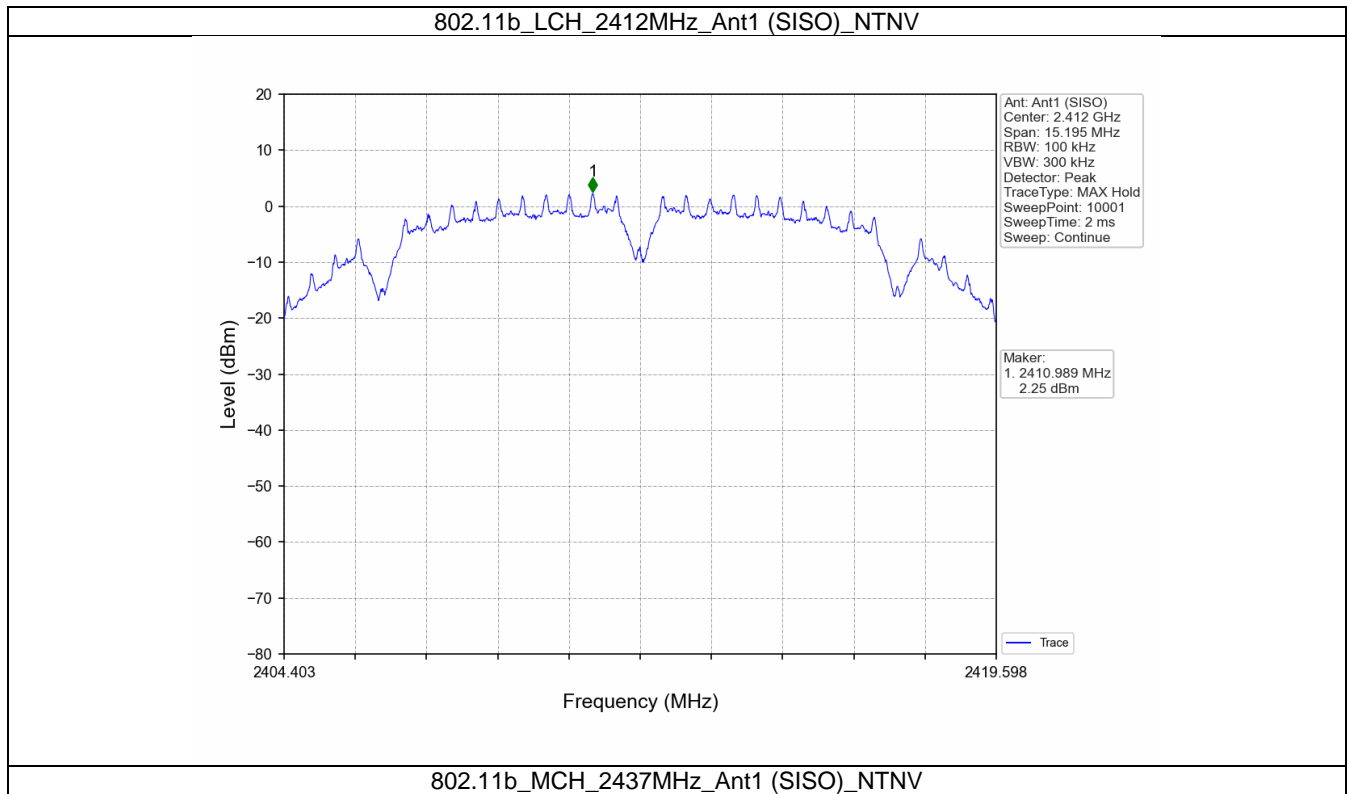
5.1 Ref

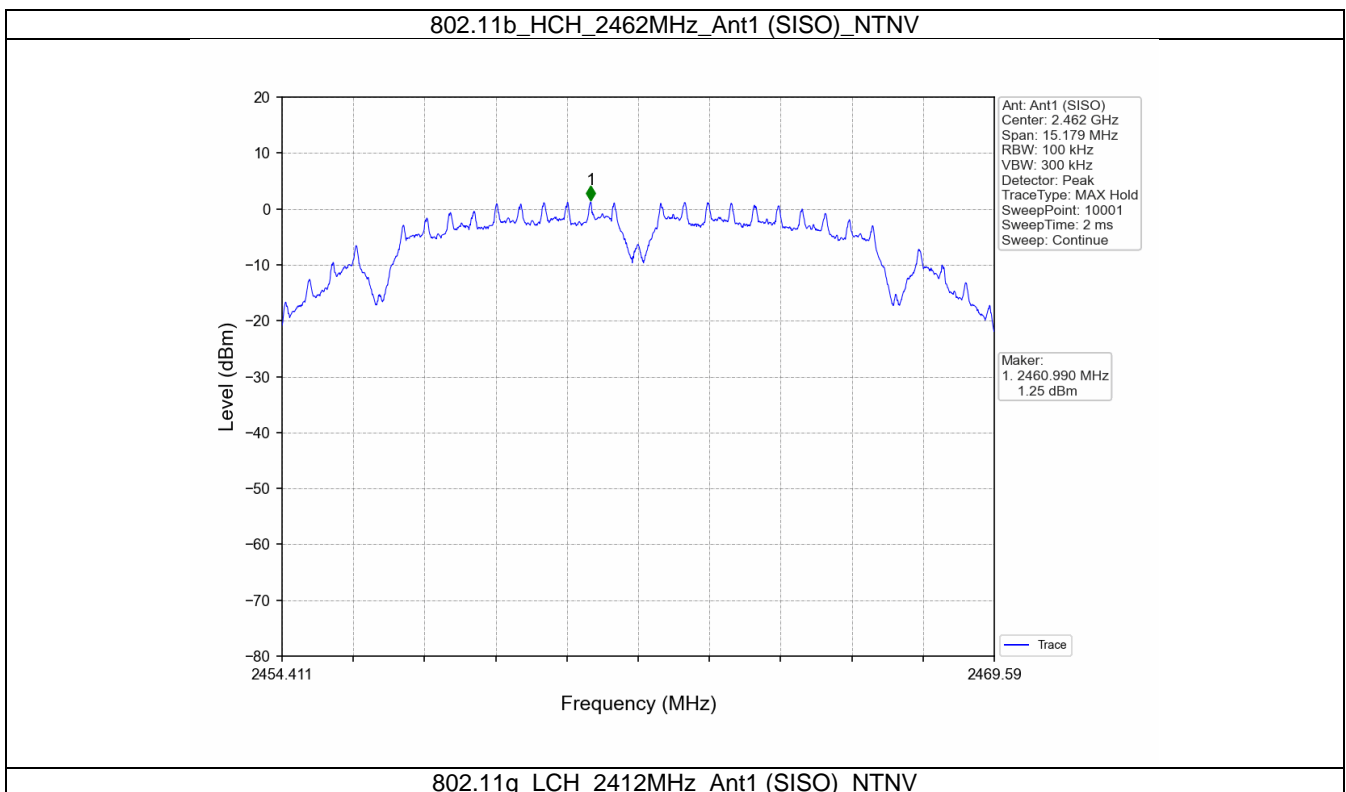
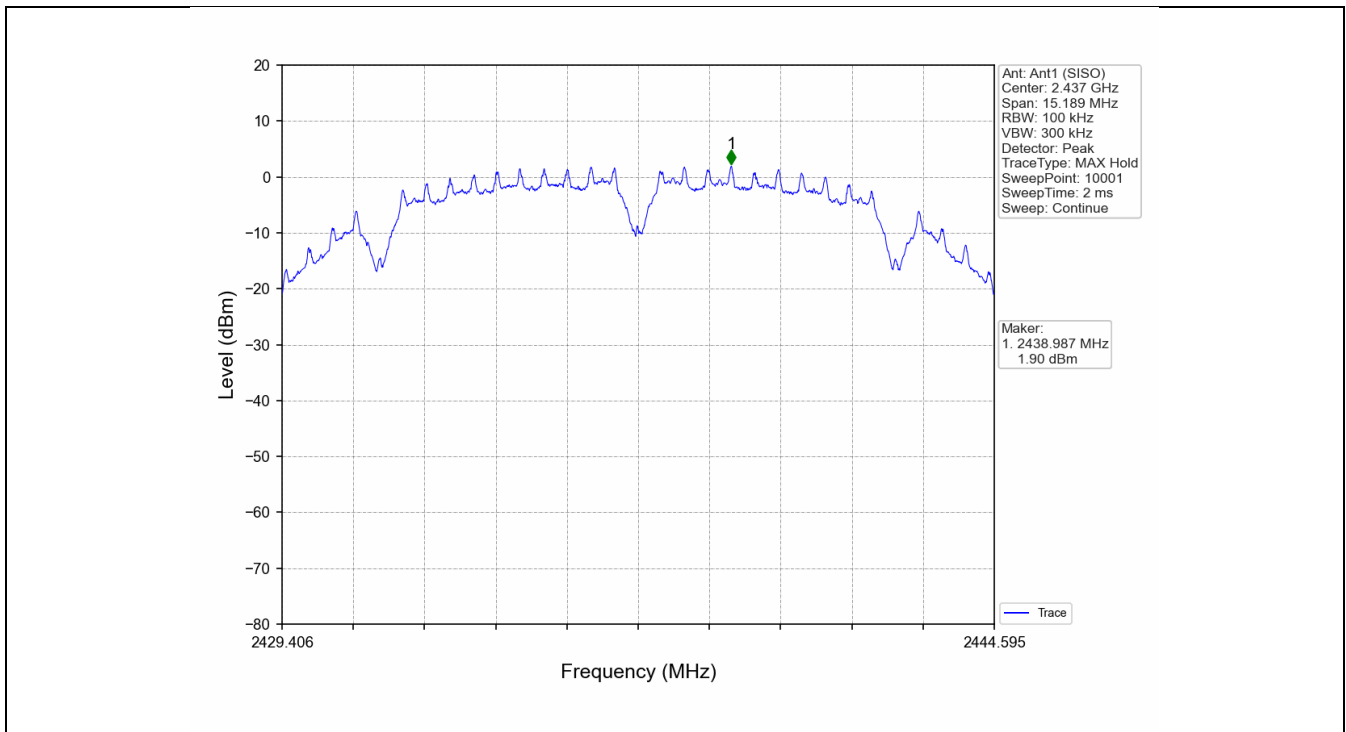
5.1.1 Test Result

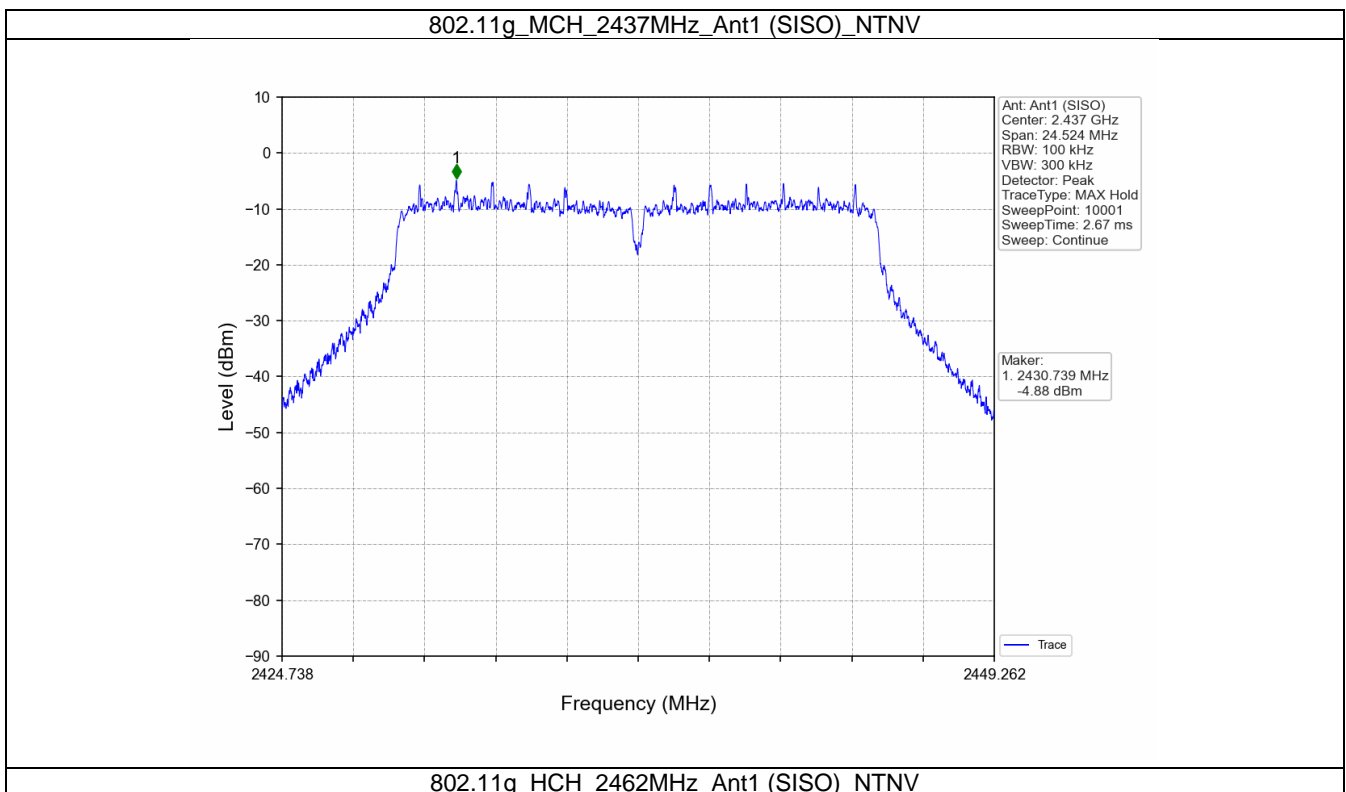
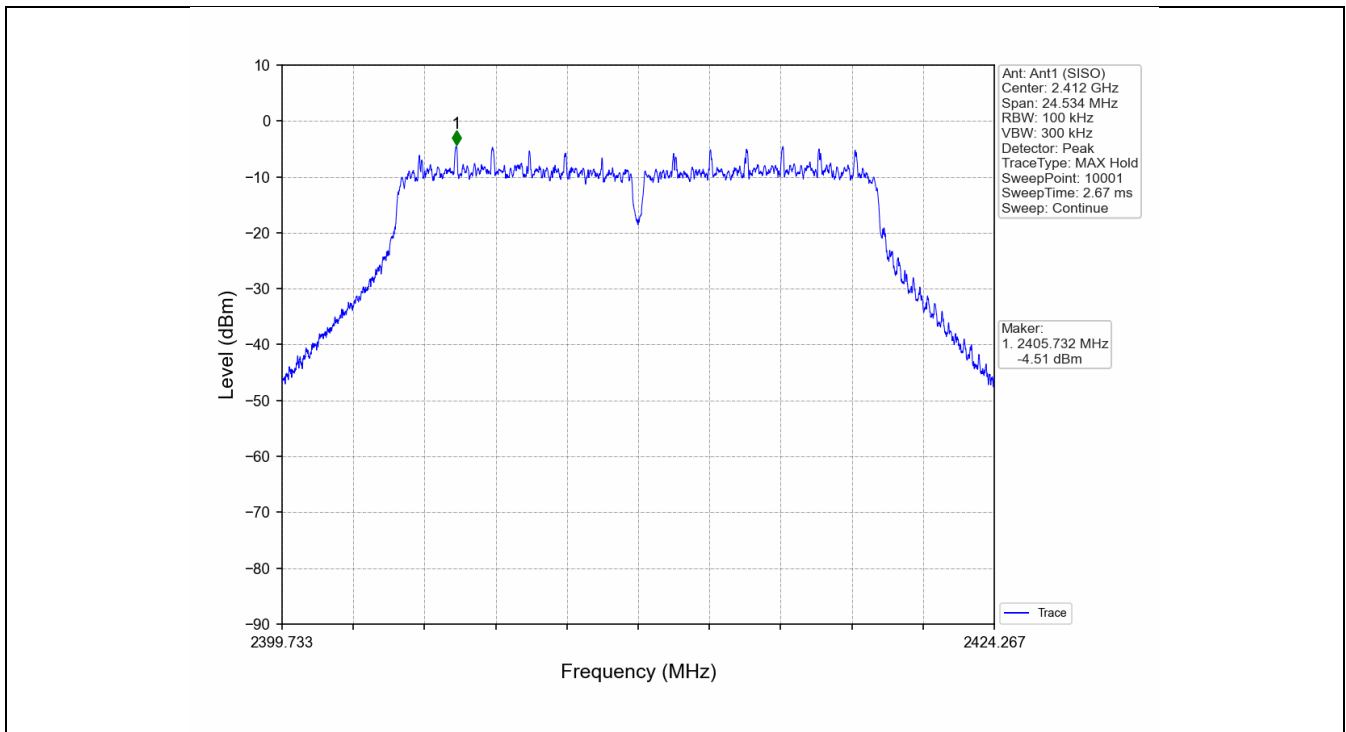
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	2.25
		2437	1	1.90
		2462	1	1.25
802.11g	SISO	2412	1	-4.51
		2437	1	-4.88
		2462	1	-4.82
802.11n (HT20)	SISO	2412	1	-4.13
		2437	1	-4.27
		2462	1	-4.58

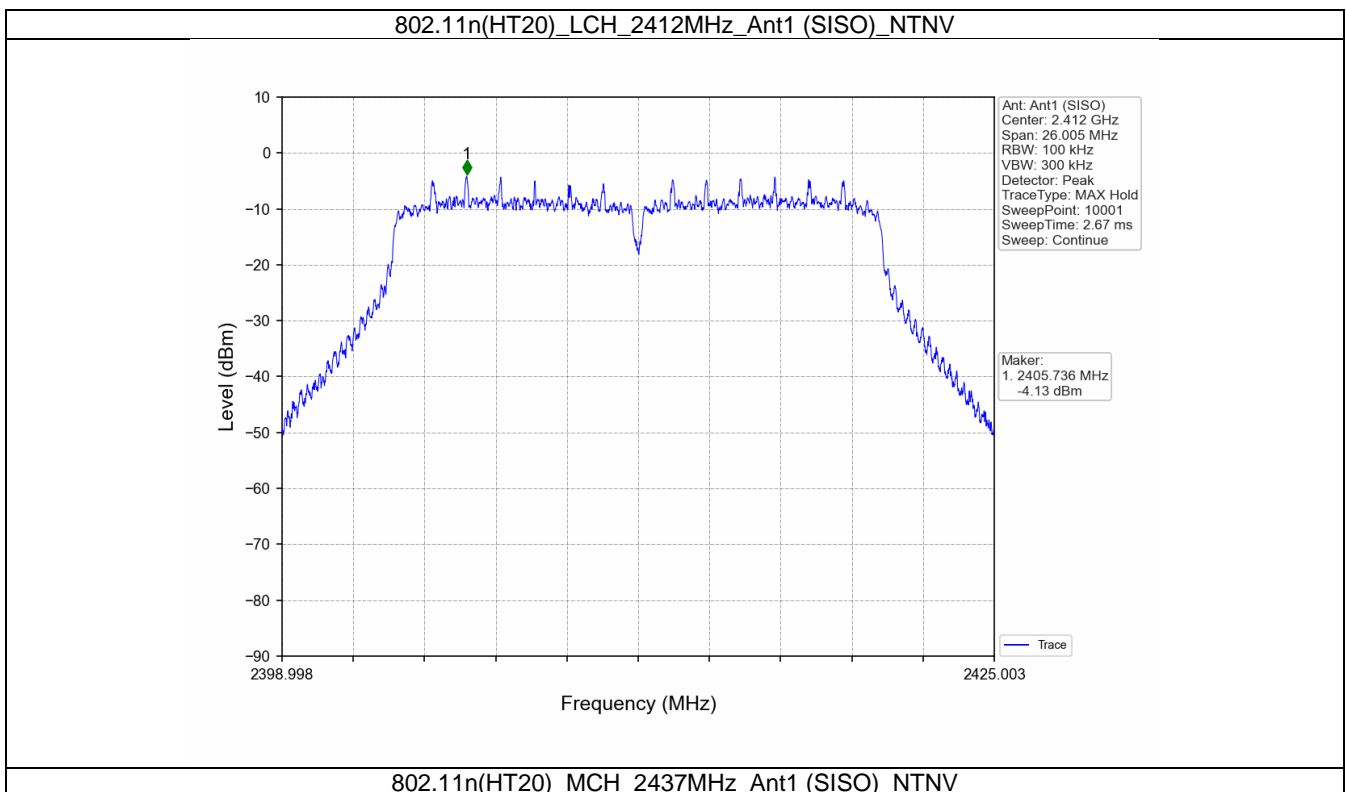
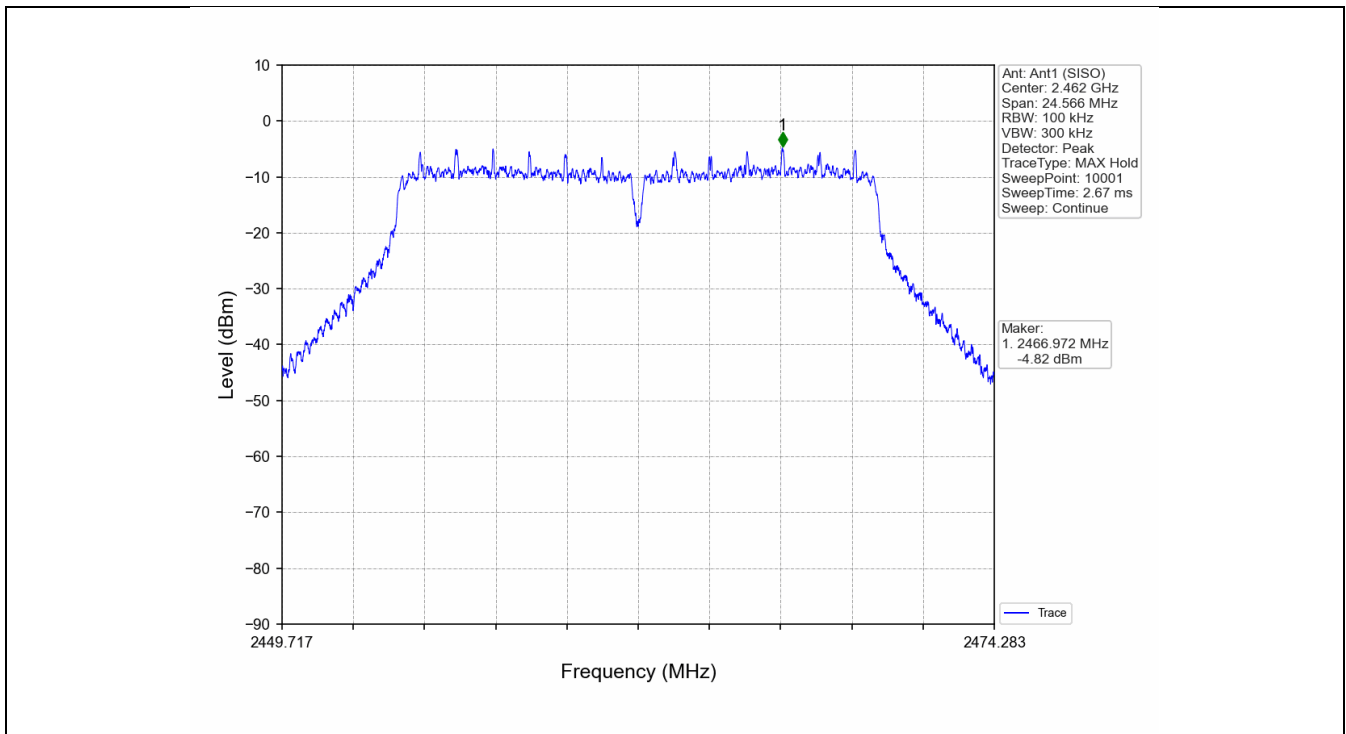
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

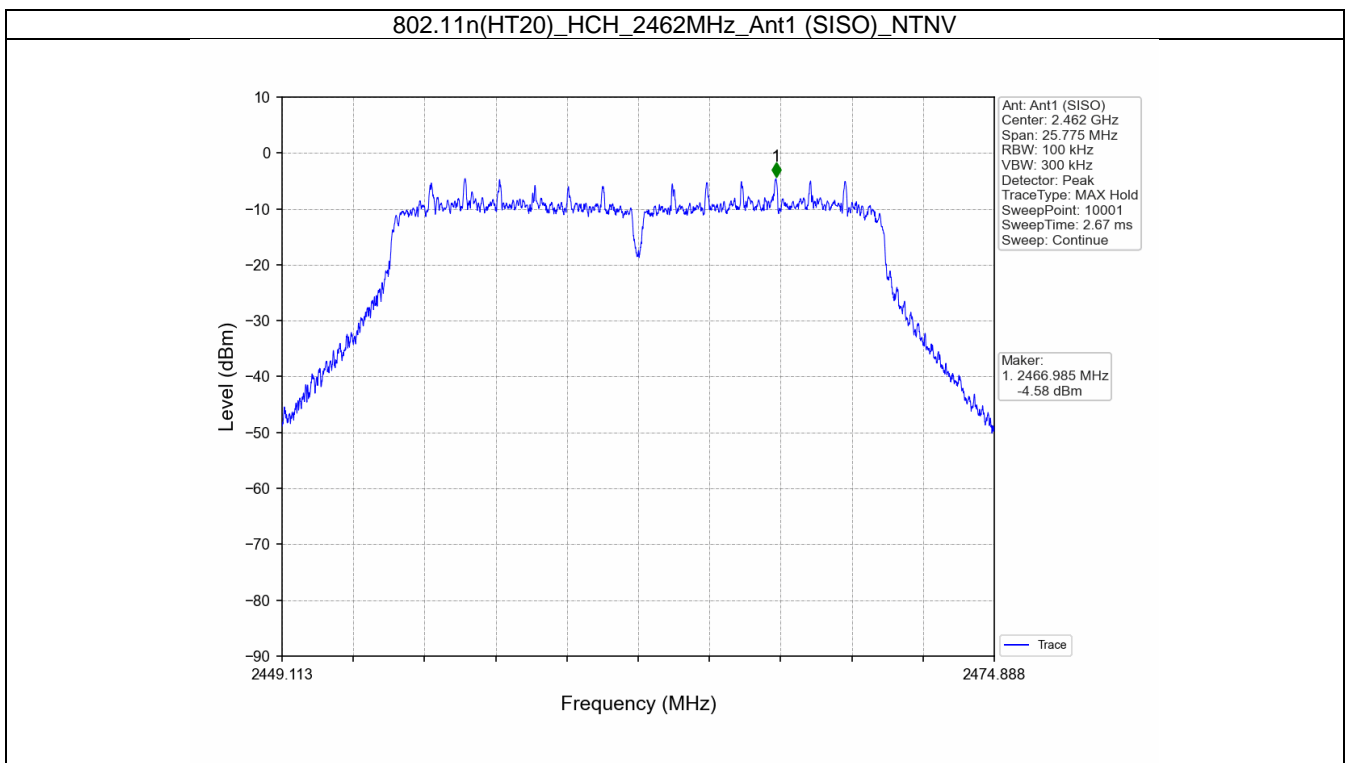
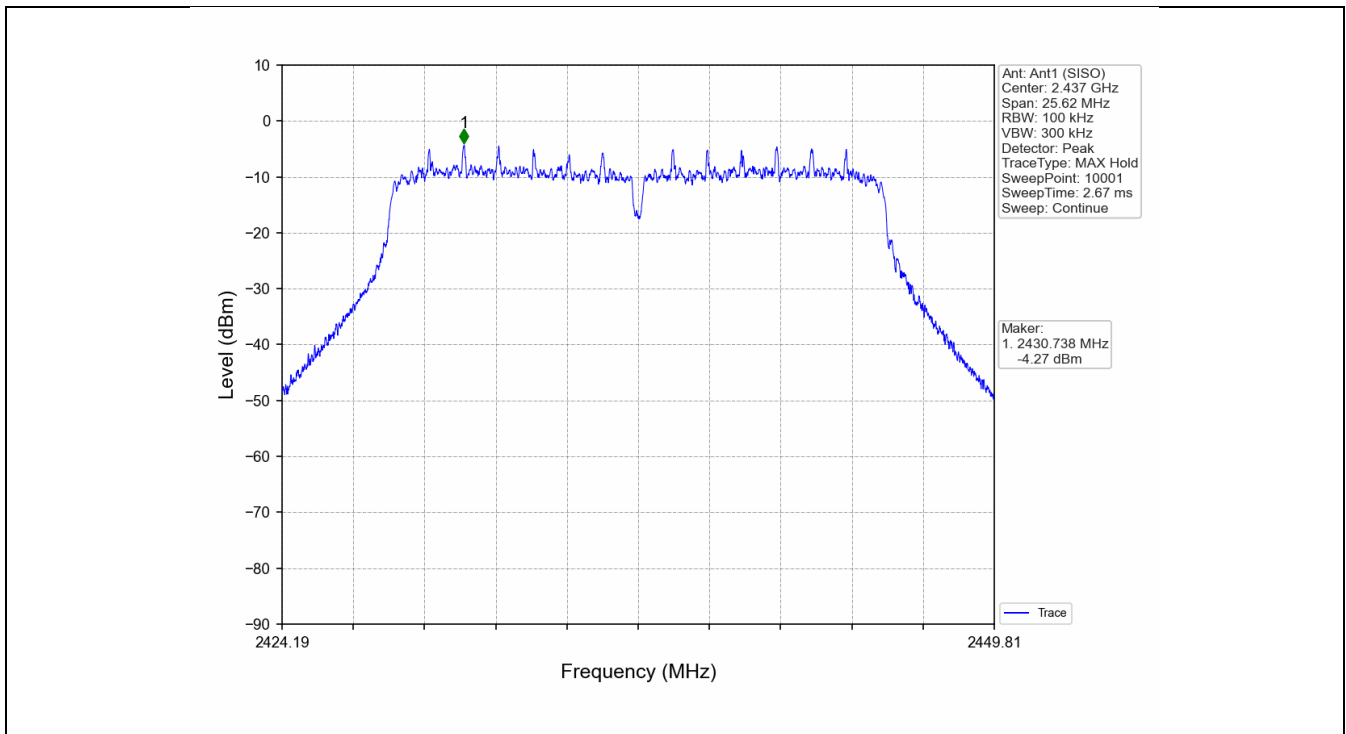
5.1.2 Test Graph











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	2.25	-17.75	Pass
		2437	1	1.90	-18.10	Pass
		2462	1	1.25	-18.75	Pass
802.11g	SISO	2412	1	-4.51	-24.51	Pass
		2437	1	-4.88	-24.88	Pass
		2462	1	-4.82	-24.82	Pass
802.11n (HT20)	SISO	2412	1	-4.13	-24.13	Pass
		2437	1	-4.27	-24.27	Pass
		2462	1	-4.58	-24.58	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

