

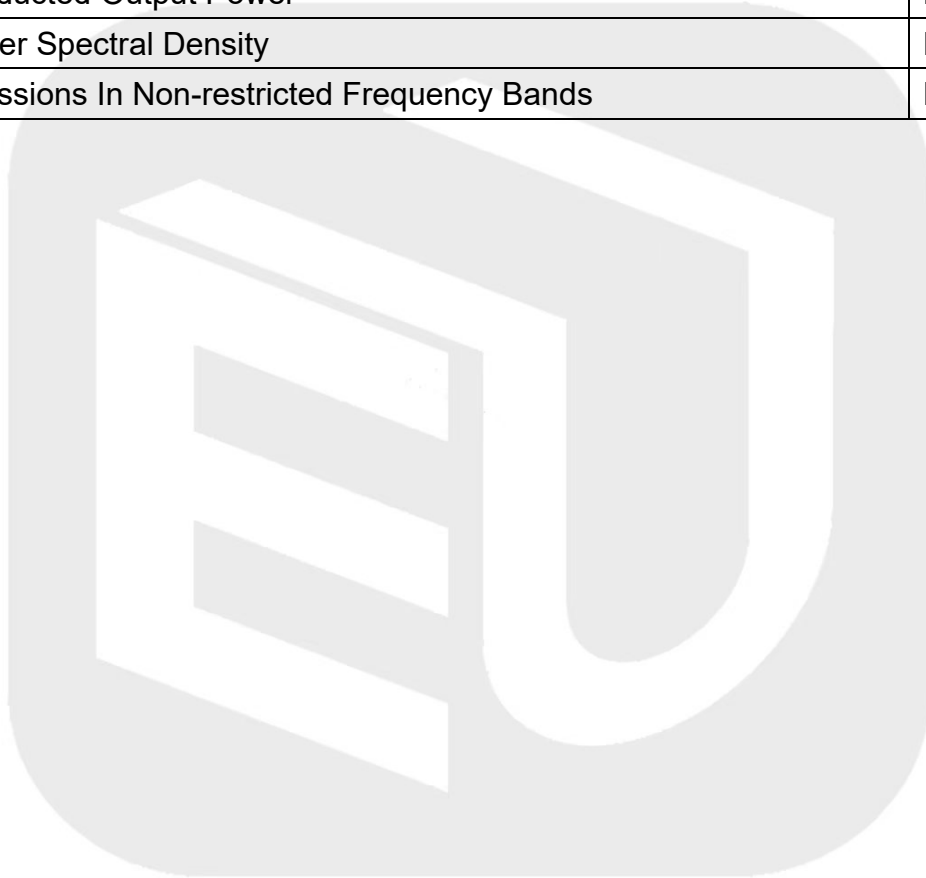
# ANNEX E TEST DATA

## For

Project No.:	8228EU011101W
Client:	Shenzhen Qianyan Technology LTD
Product Name:	Govee TV Backlight for 70-80 inch TVs
Model No.:	H6169
FCC ID:	2A7VD-H6169
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-05-20

## Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



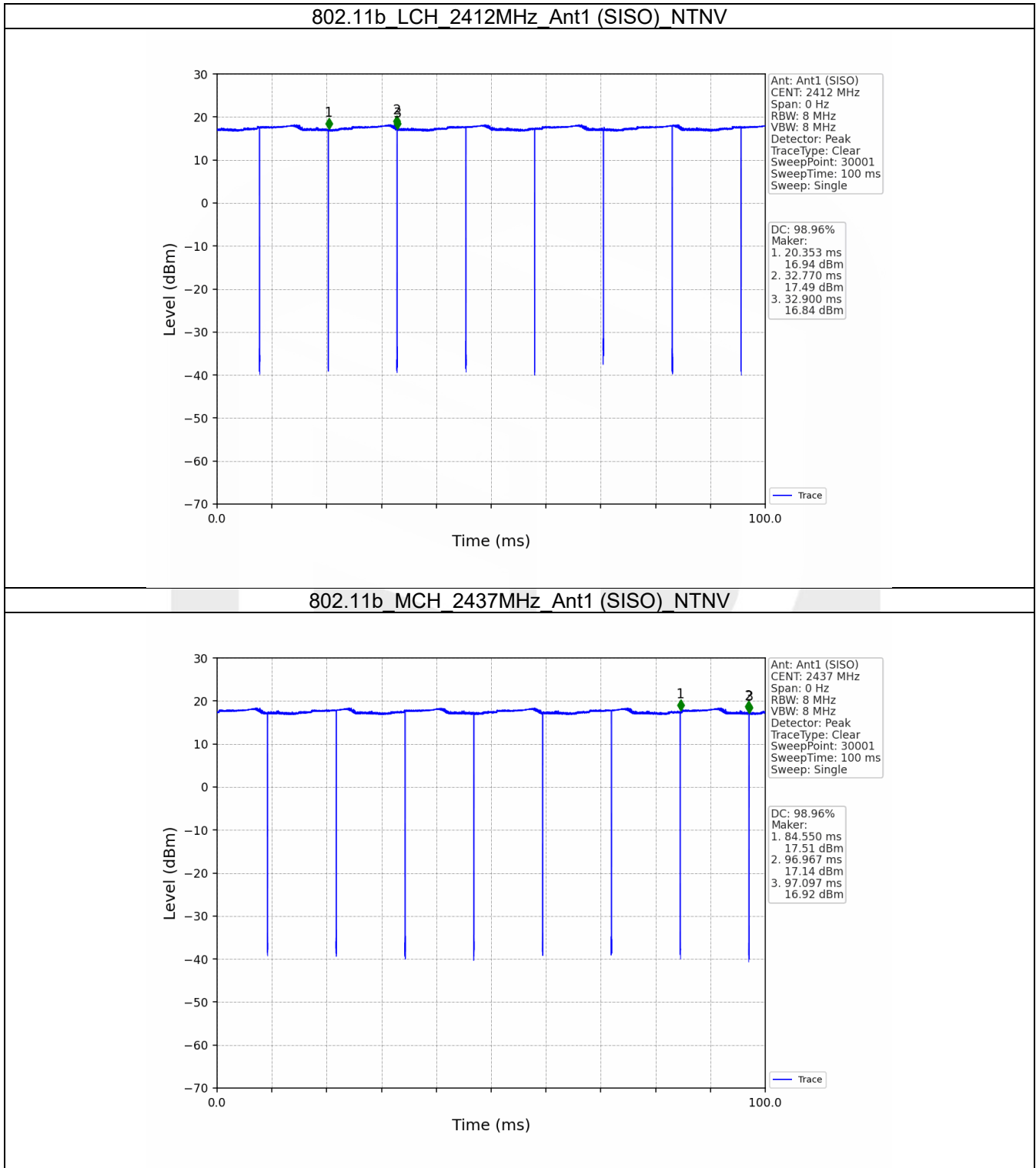
## 1. Duty Cycle

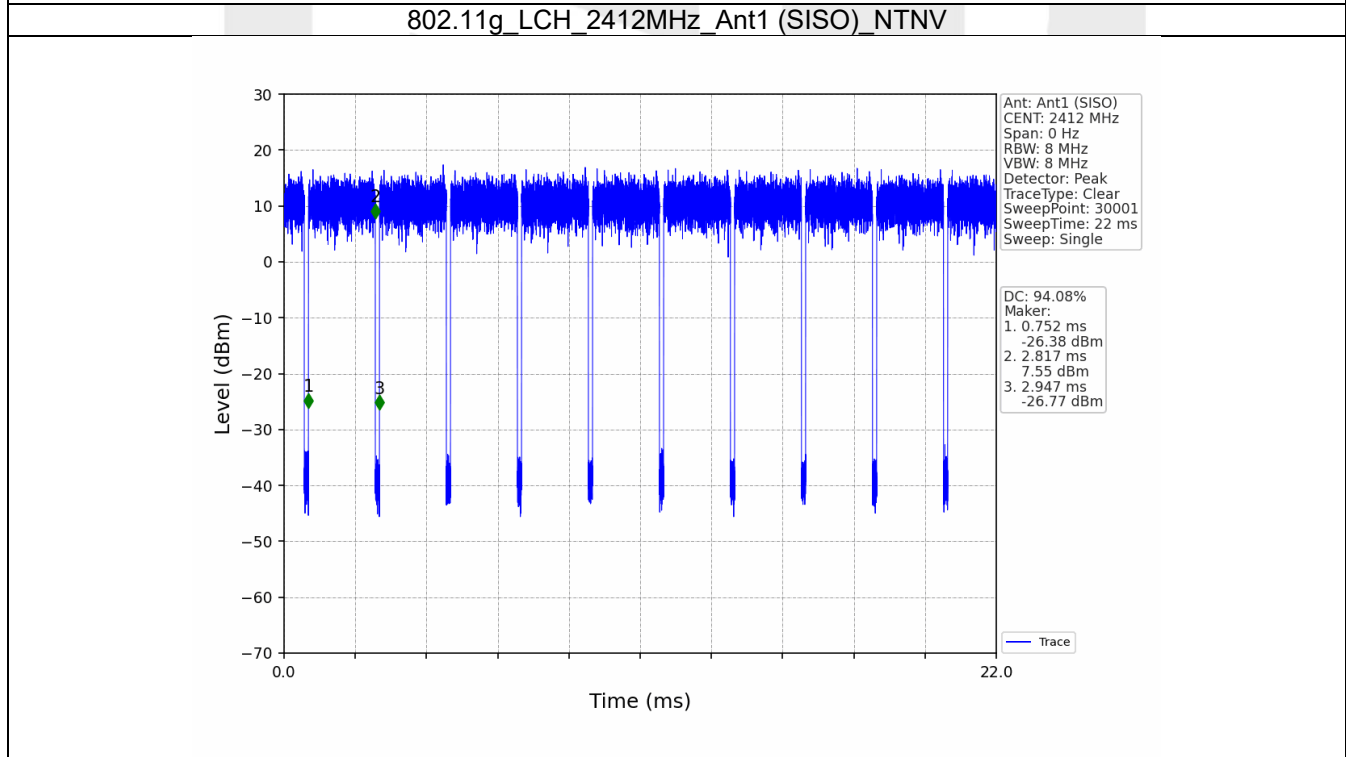
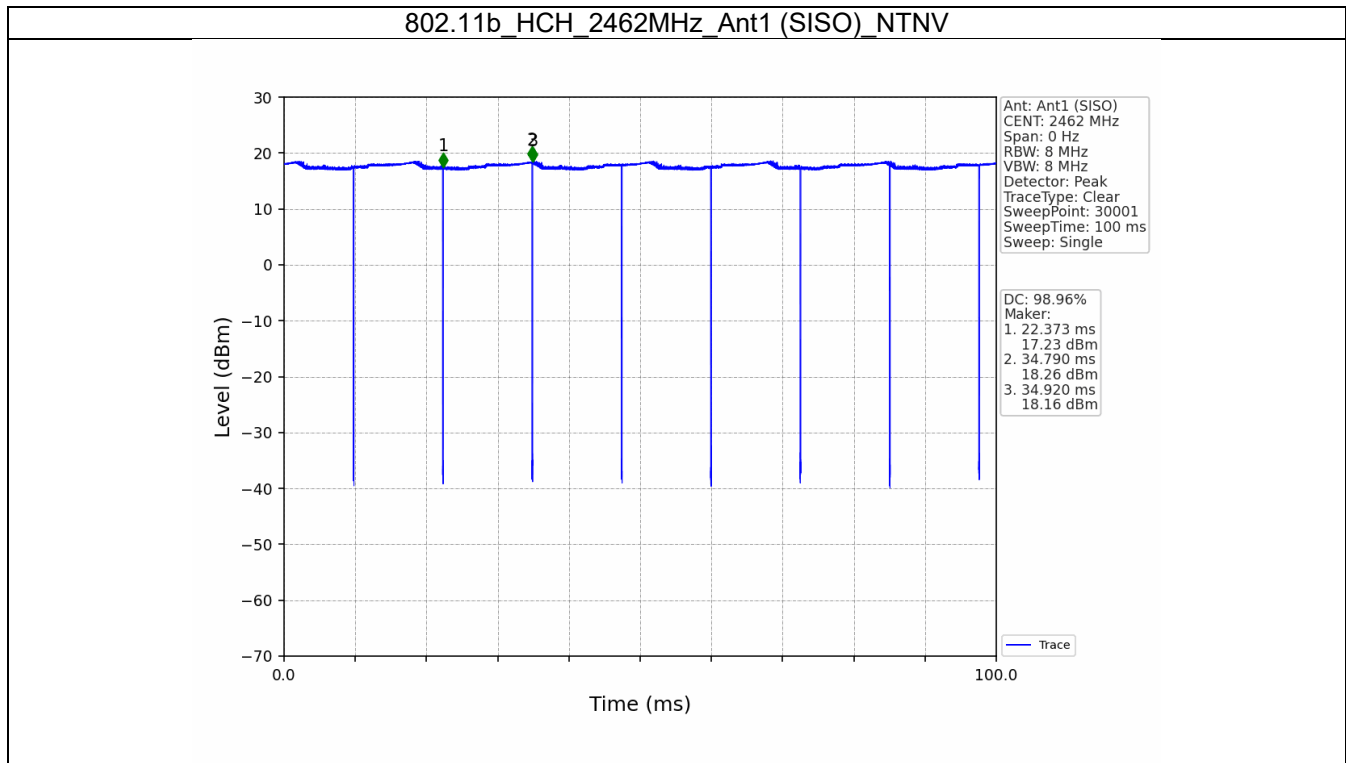
### 1.1 Ant1

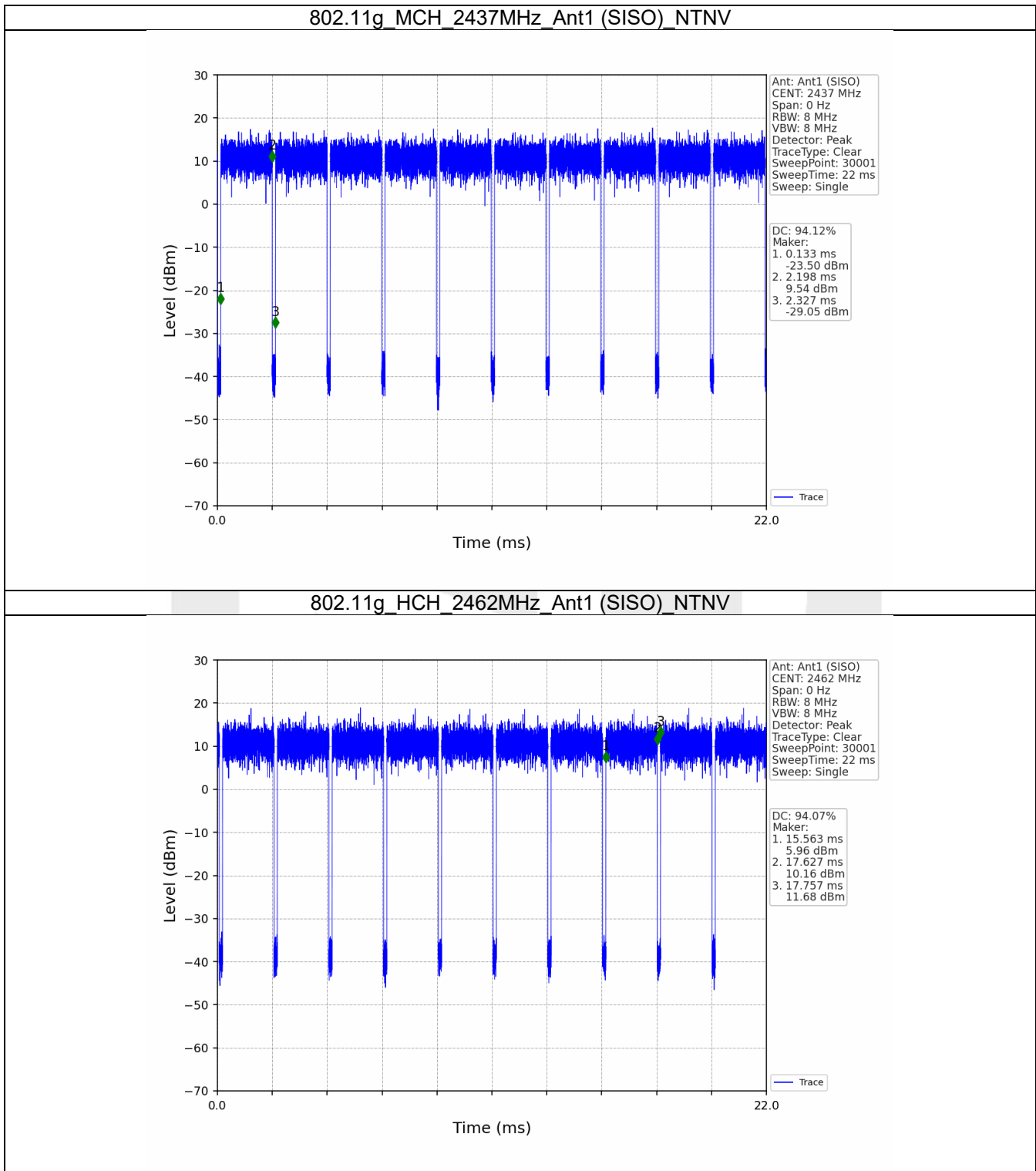
#### 1.1.1 Test Result

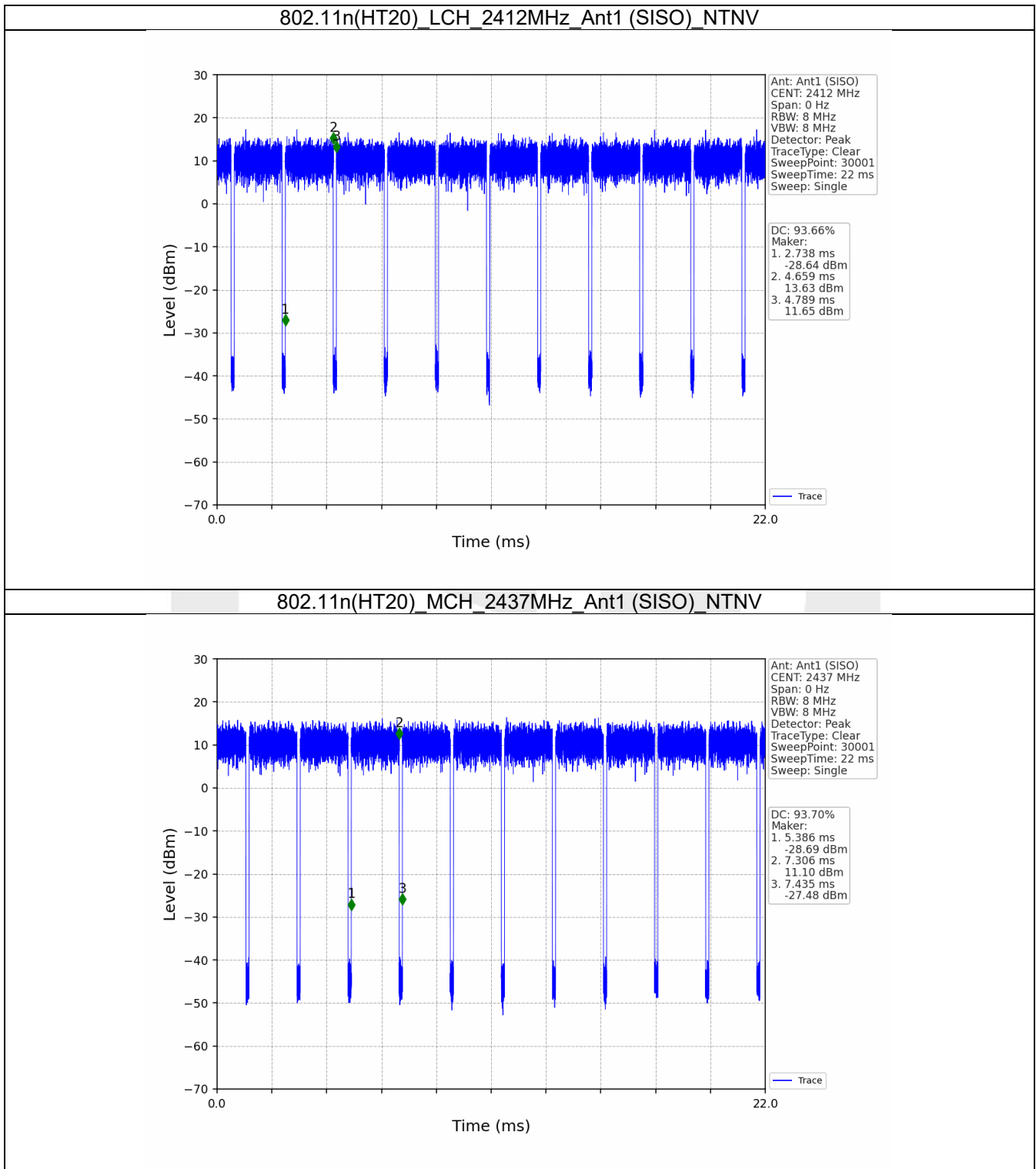
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.417	12.547	98.96	0.05	0.03
		2437	12.417	12.547	98.96	0.05	0.03
		2462	12.417	12.547	98.96	0.05	0.03
802.11g	SISO	2412	2.065	2.195	94.08	0.27	0.03
		2437	2.065	2.194	94.12	0.26	0.03
		2462	2.064	2.194	94.07	0.27	0.06
802.11n (HT20)	SISO	2412	1.921	2.051	93.66	0.28	0.04
		2437	1.920	2.049	93.70	0.28	0.04
		2462	1.921	2.050	93.71	0.28	0.00

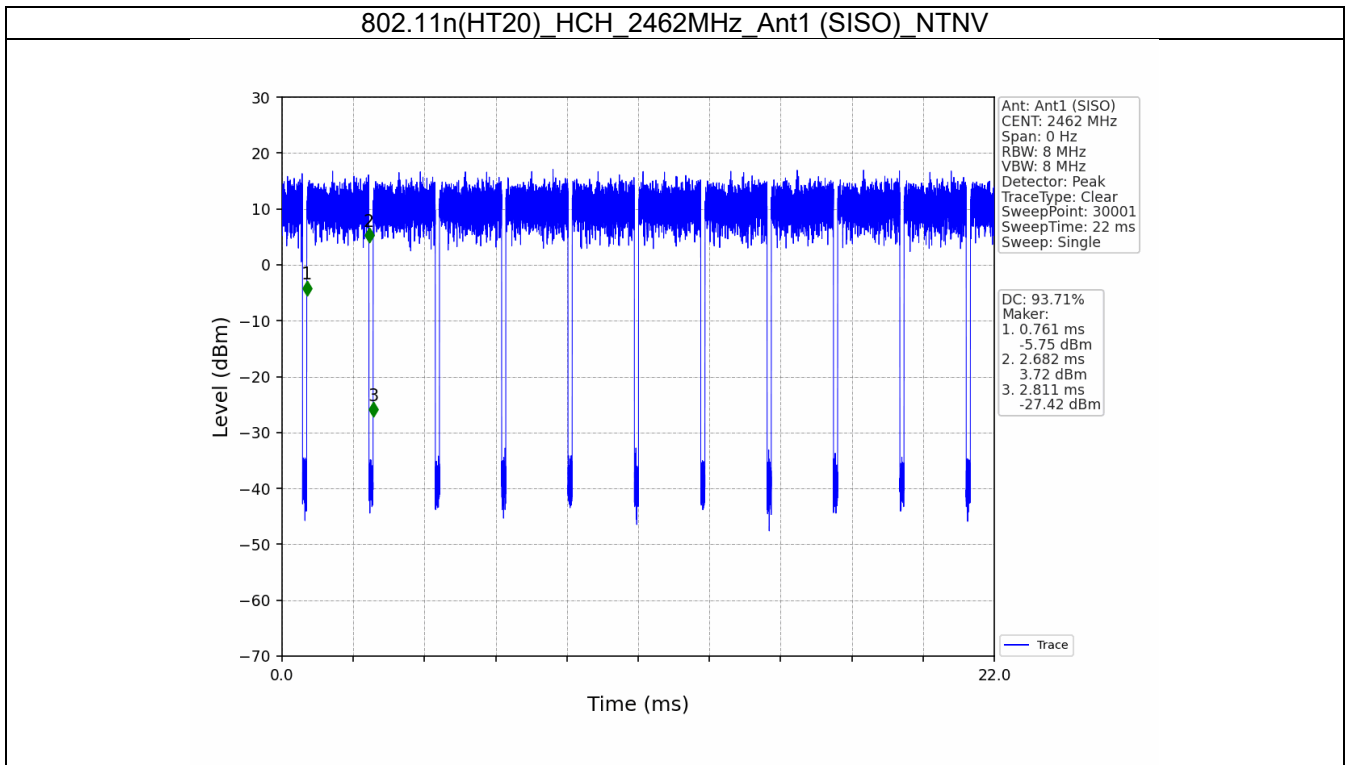
1.1.2 Test Graph













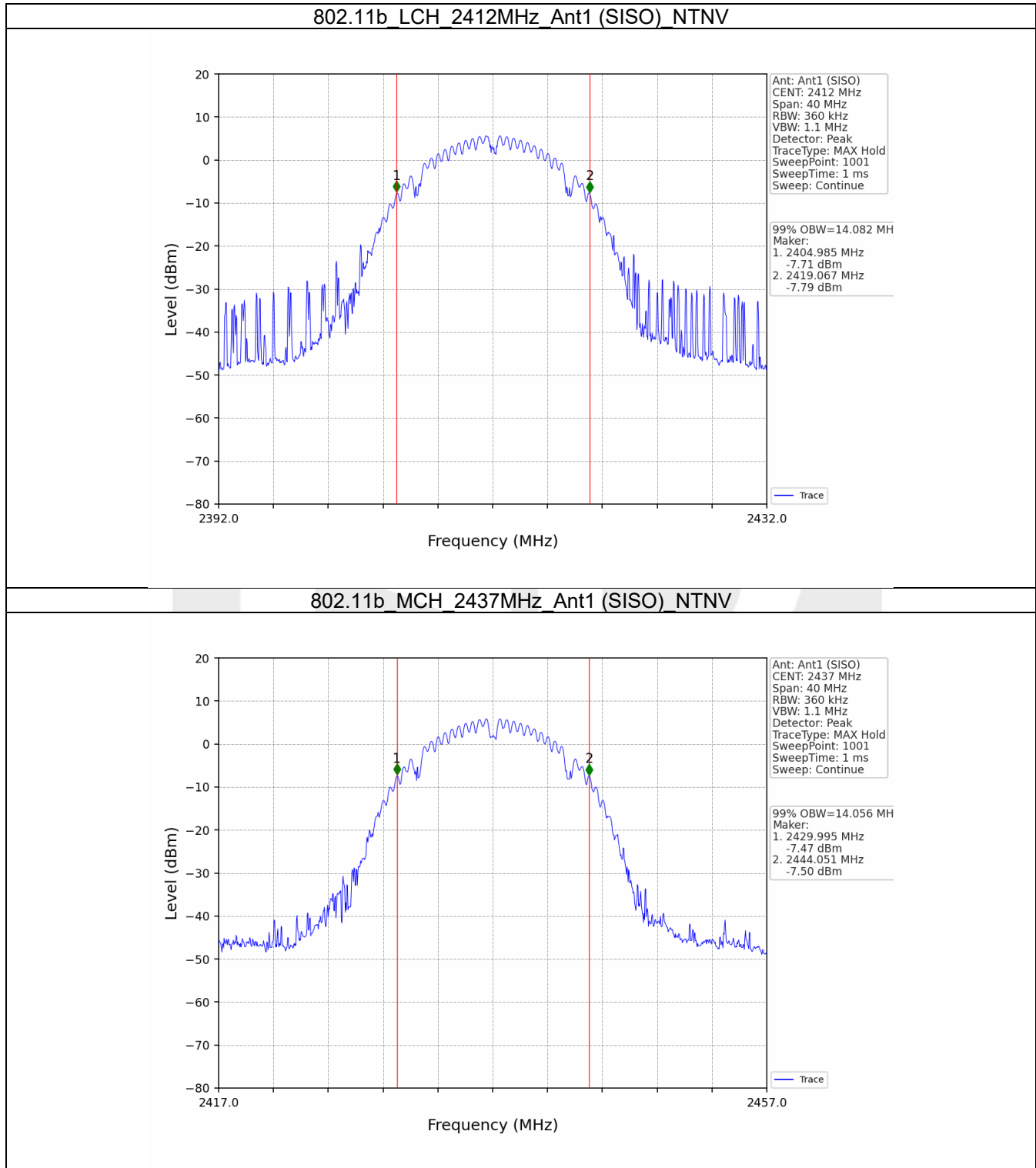
## 2. Bandwidth

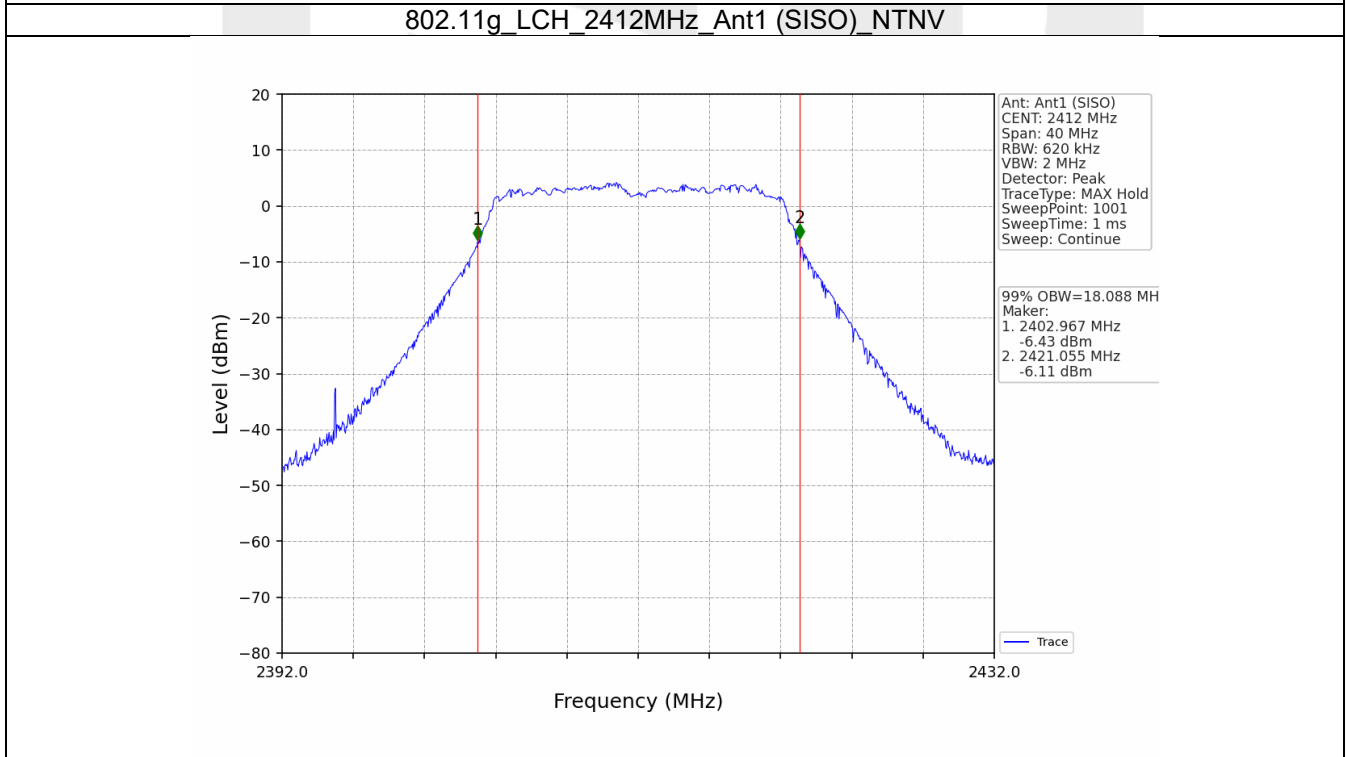
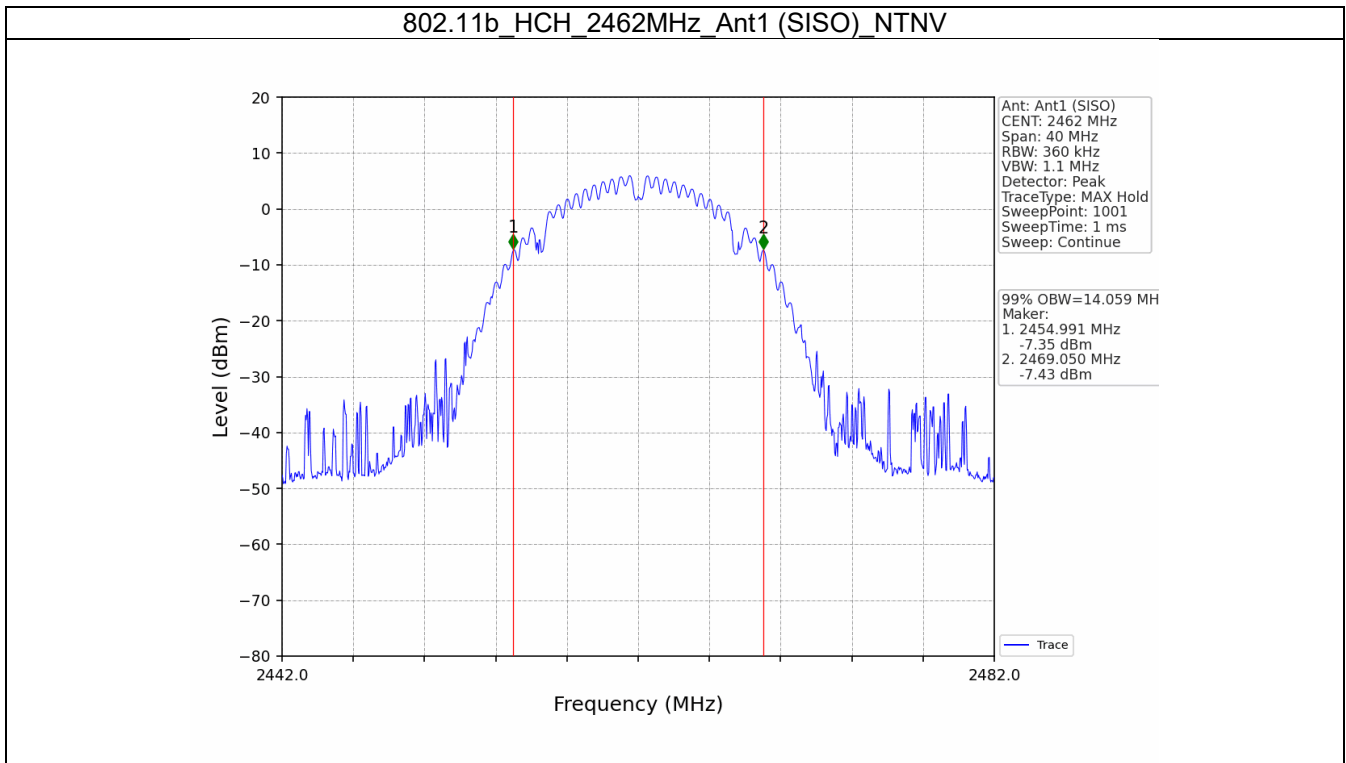
### 2.1 OBW

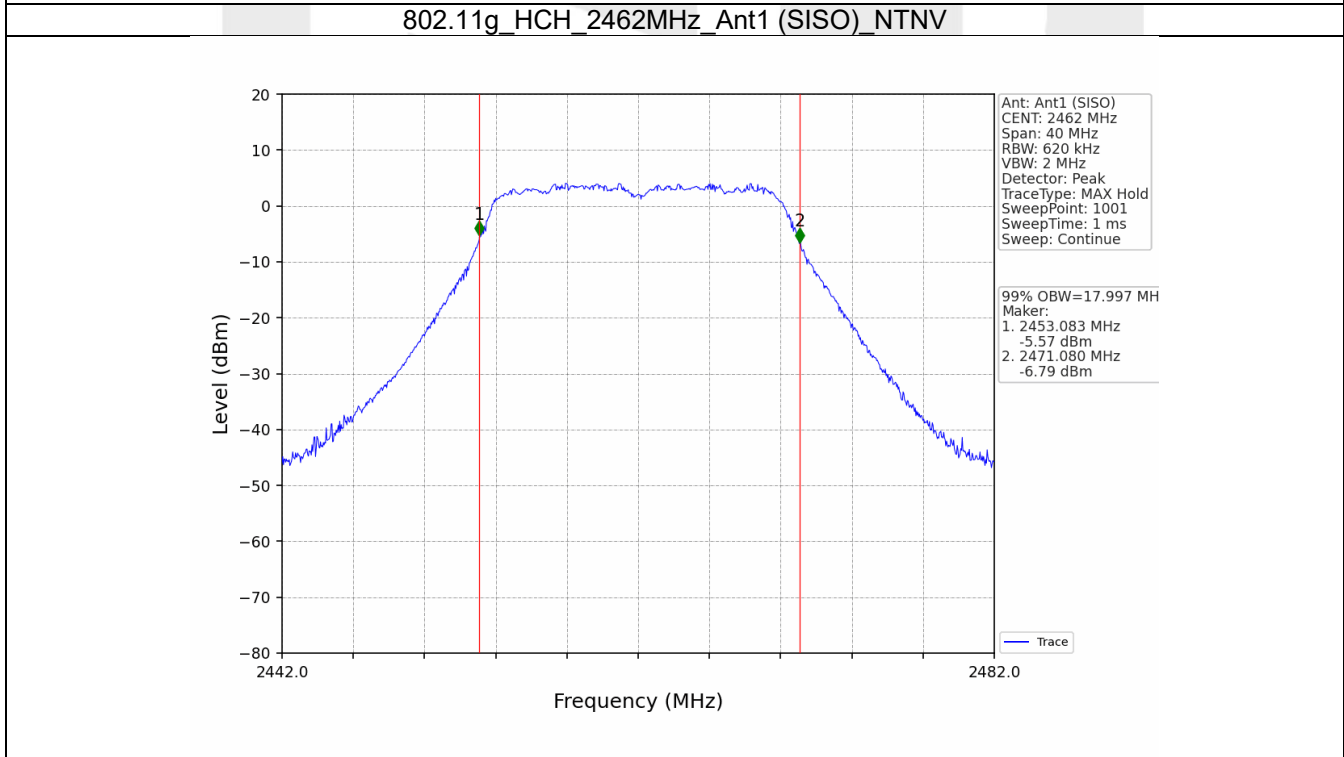
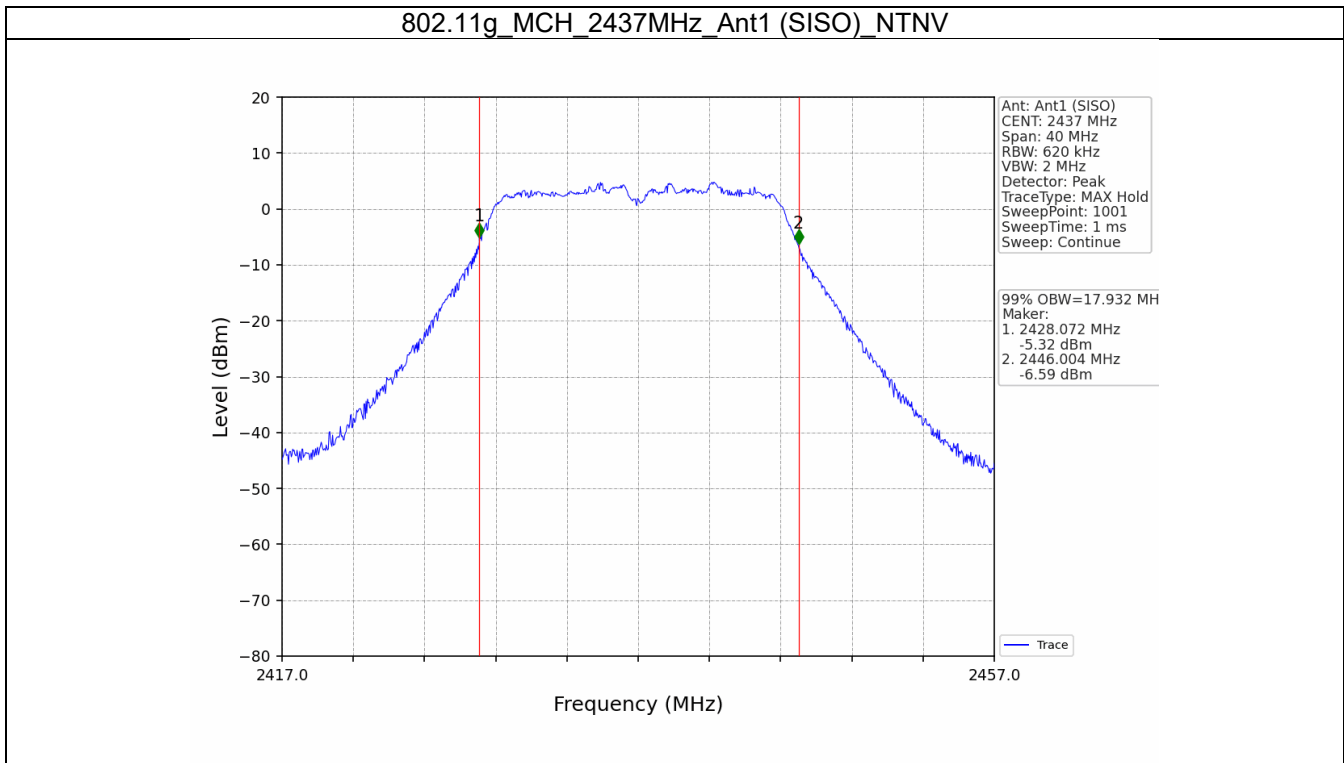
#### 2.1.1 Test Result

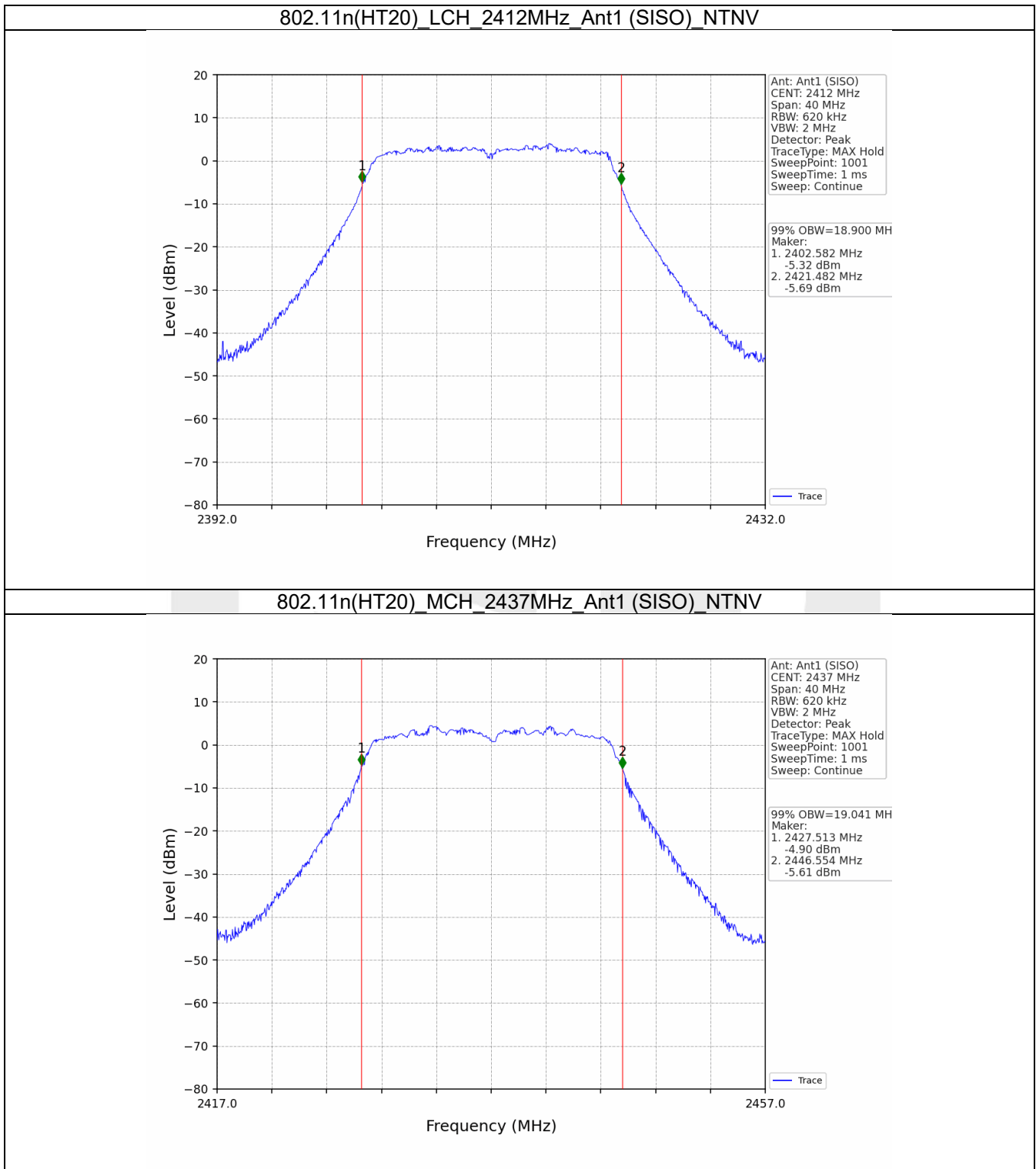
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.082	/	Pass
		2437	1	14.056	/	Pass
		2462	1	14.059	/	Pass
802.11g	SISO	2412	1	18.088	/	Pass
		2437	1	17.932	/	Pass
		2462	1	17.997	/	Pass
802.11n (HT20)	SISO	2412	1	18.900	/	Pass
		2437	1	19.041	/	Pass
		2462	1	18.929	/	Pass

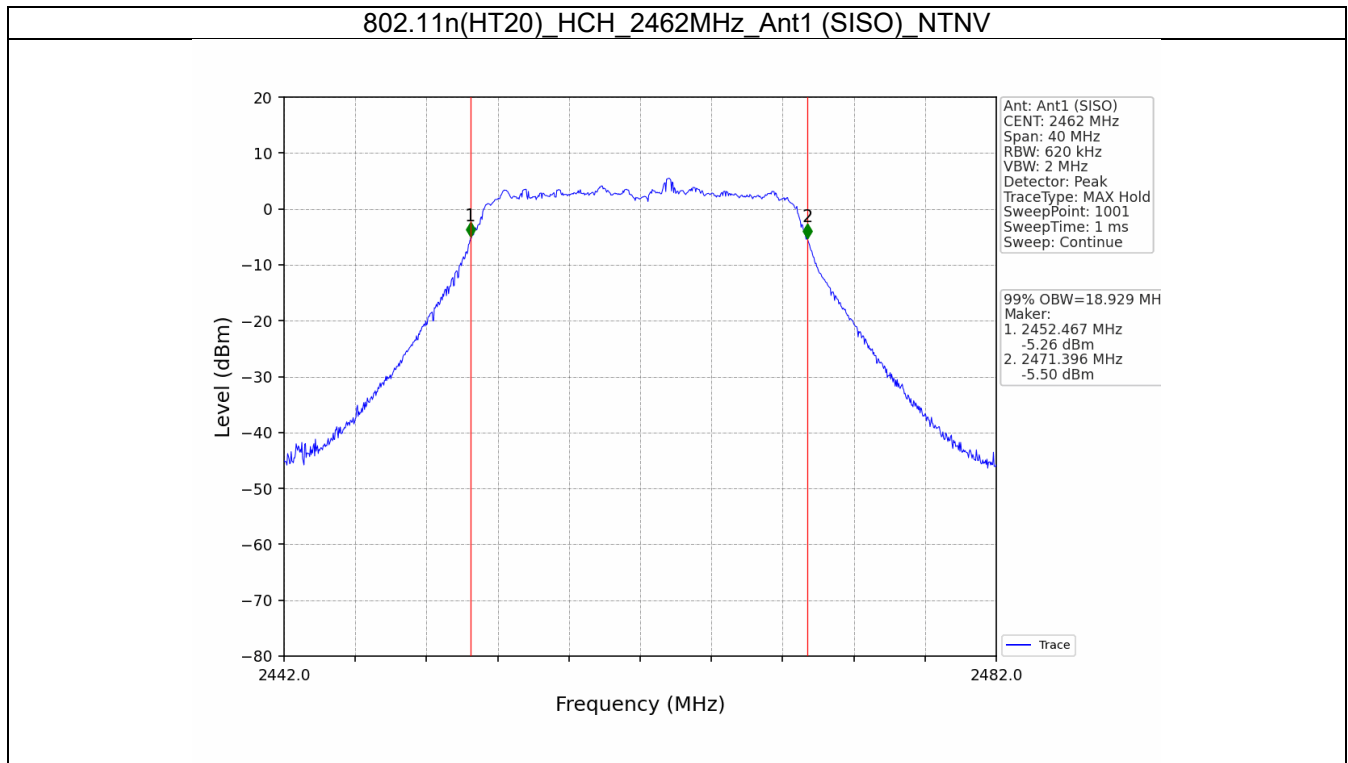
2.1.2 Test Graph









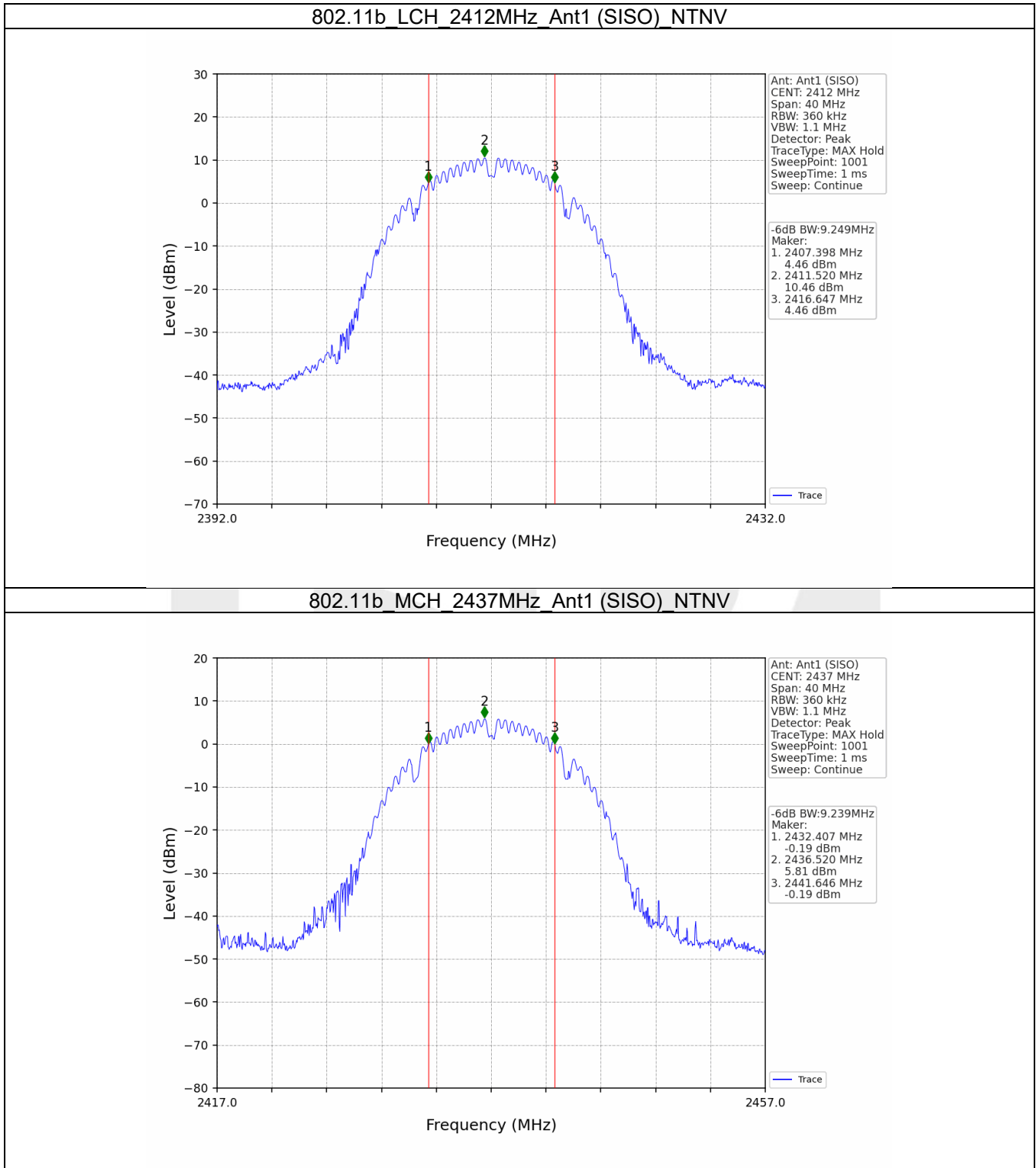


**2.2 6dB BW**

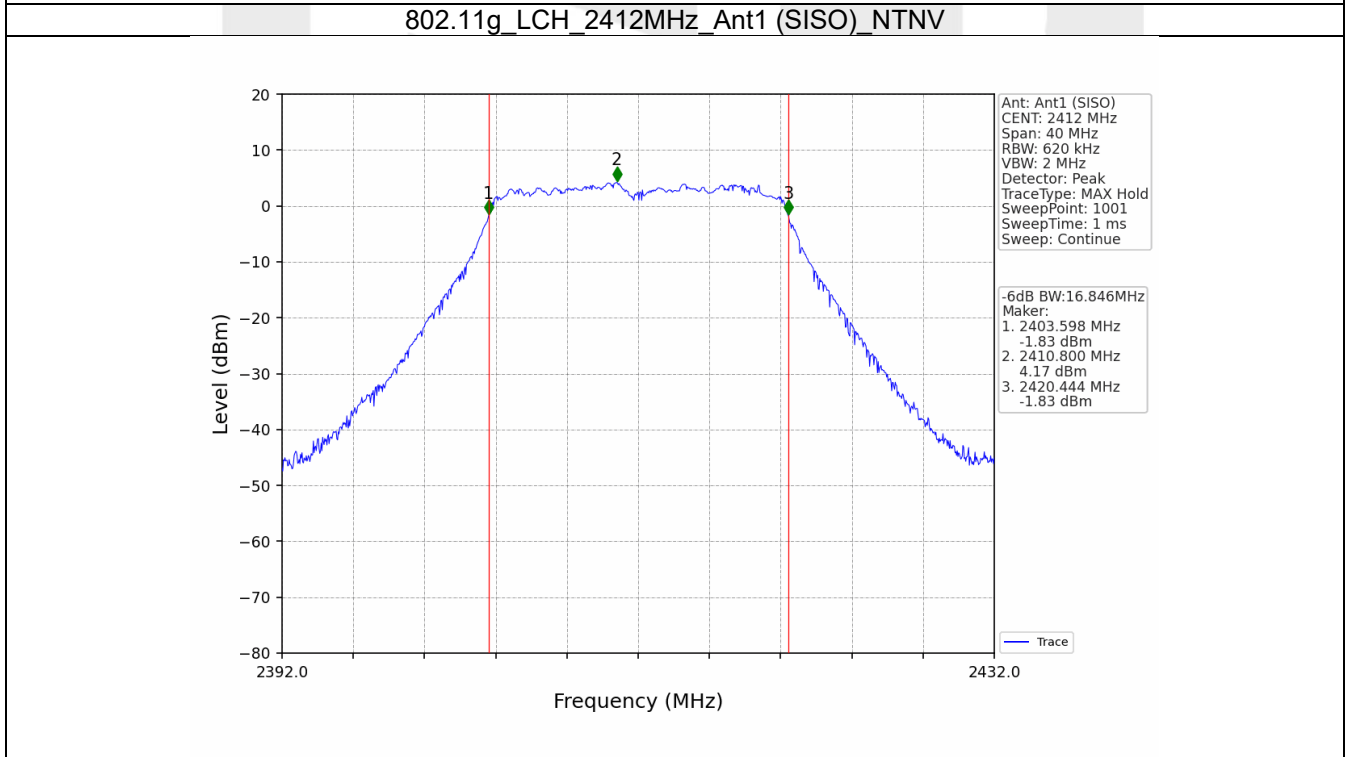
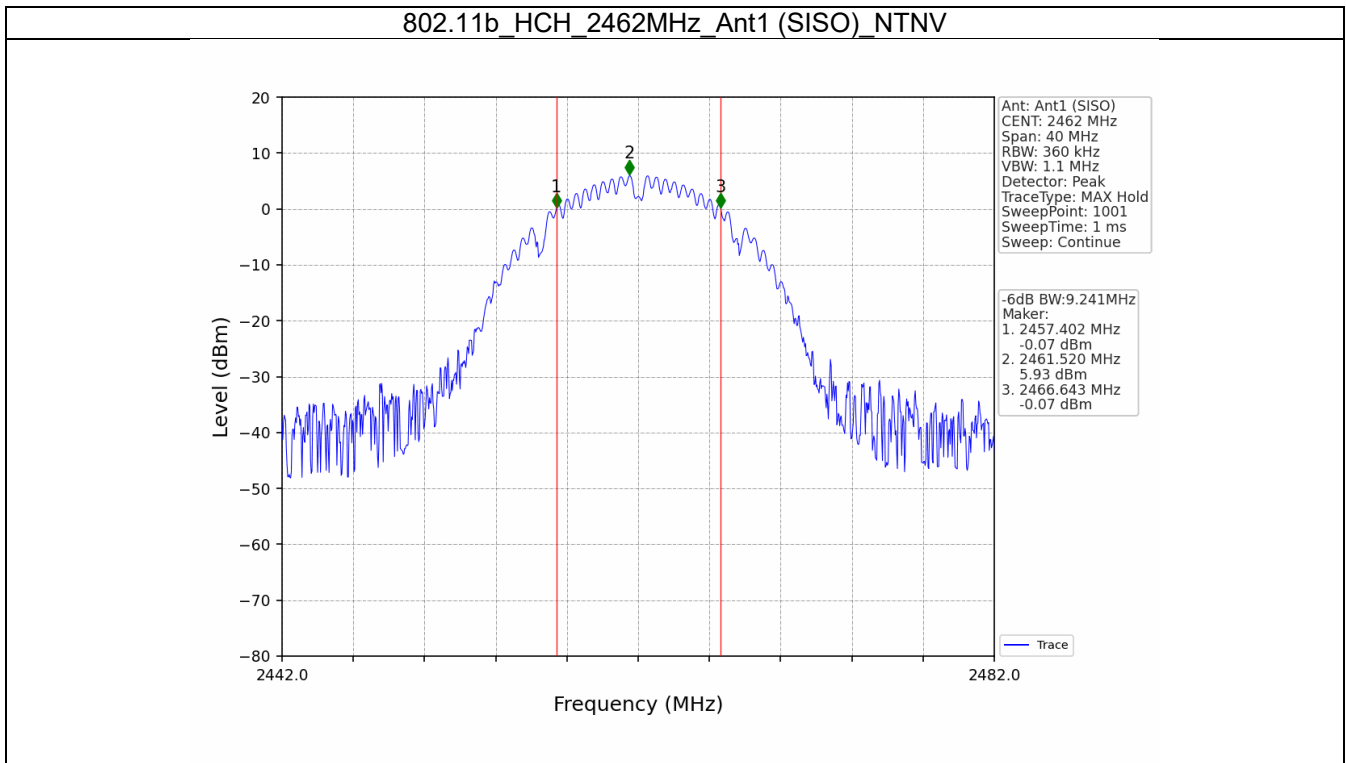
**2.2.1 Test Result**

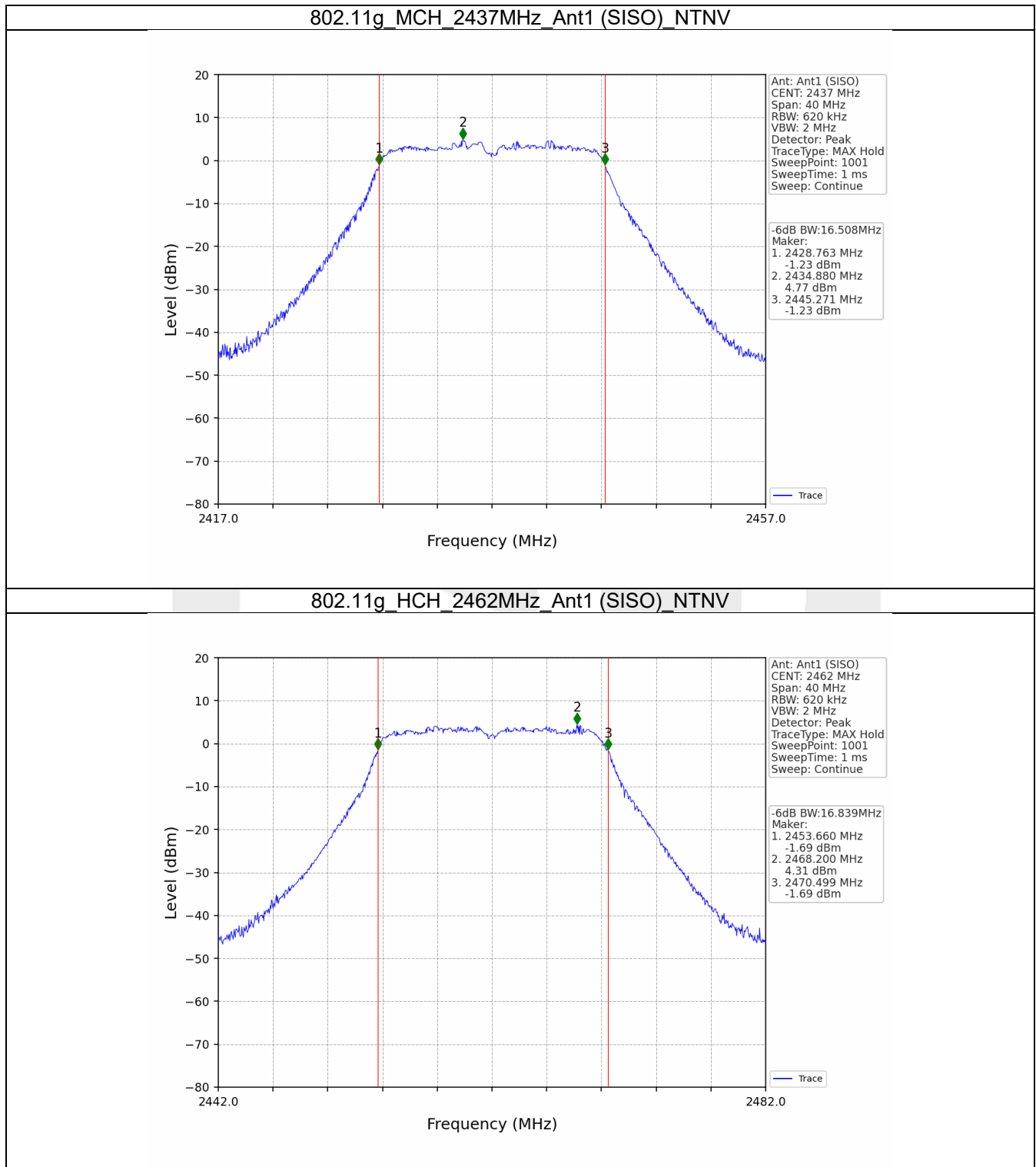
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.249	>=0.5	Pass
		2437	1	9.239	>=0.5	Pass
		2462	1	9.241	>=0.5	Pass
802.11g	SISO	2412	1	16.846	>=0.5	Pass
		2437	1	16.508	>=0.5	Pass
		2462	1	16.839	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.812	>=0.5	Pass
		2437	1	17.876	>=0.5	Pass
		2462	1	17.585	>=0.5	Pass

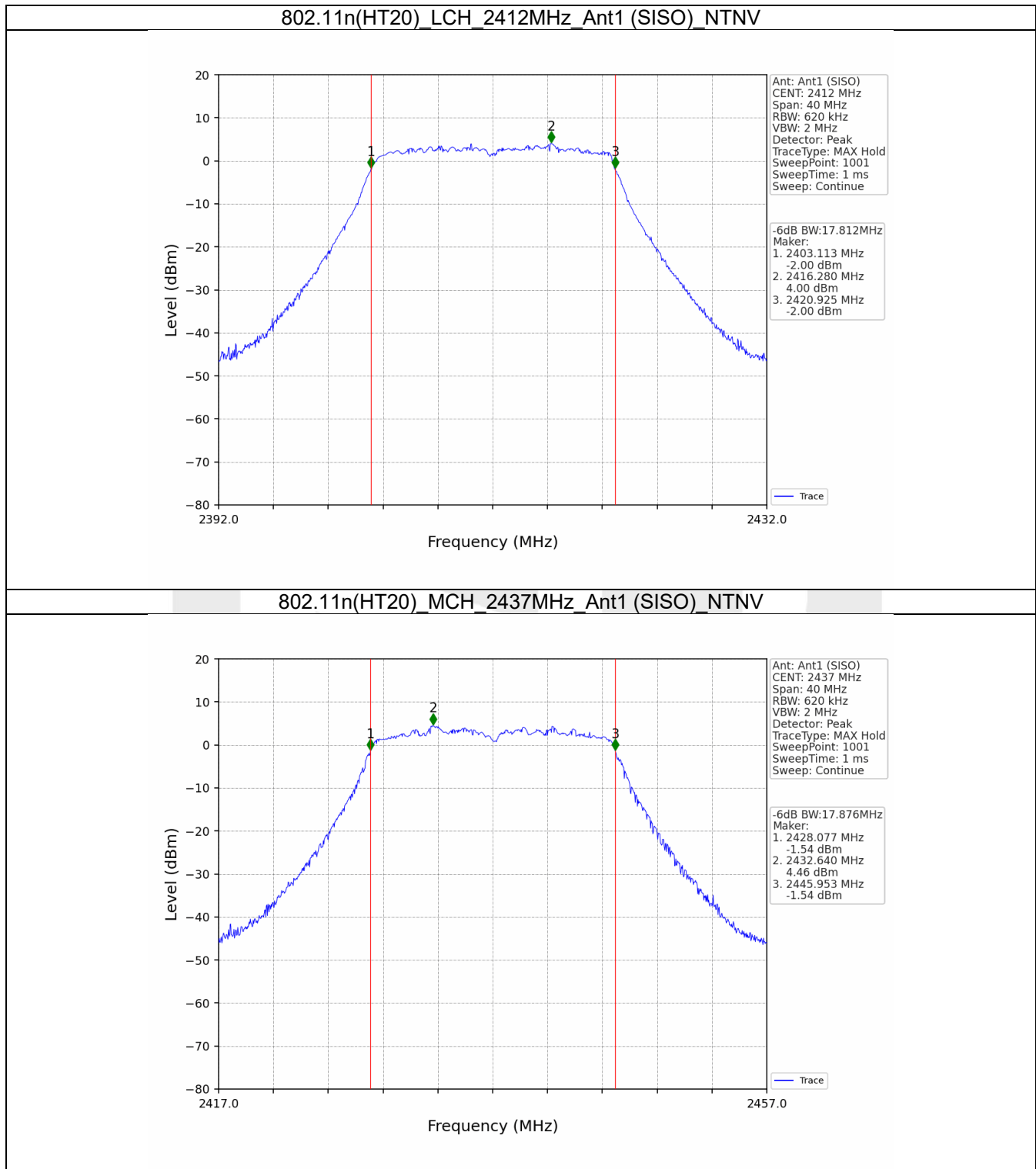
2.2.2 Test Graph

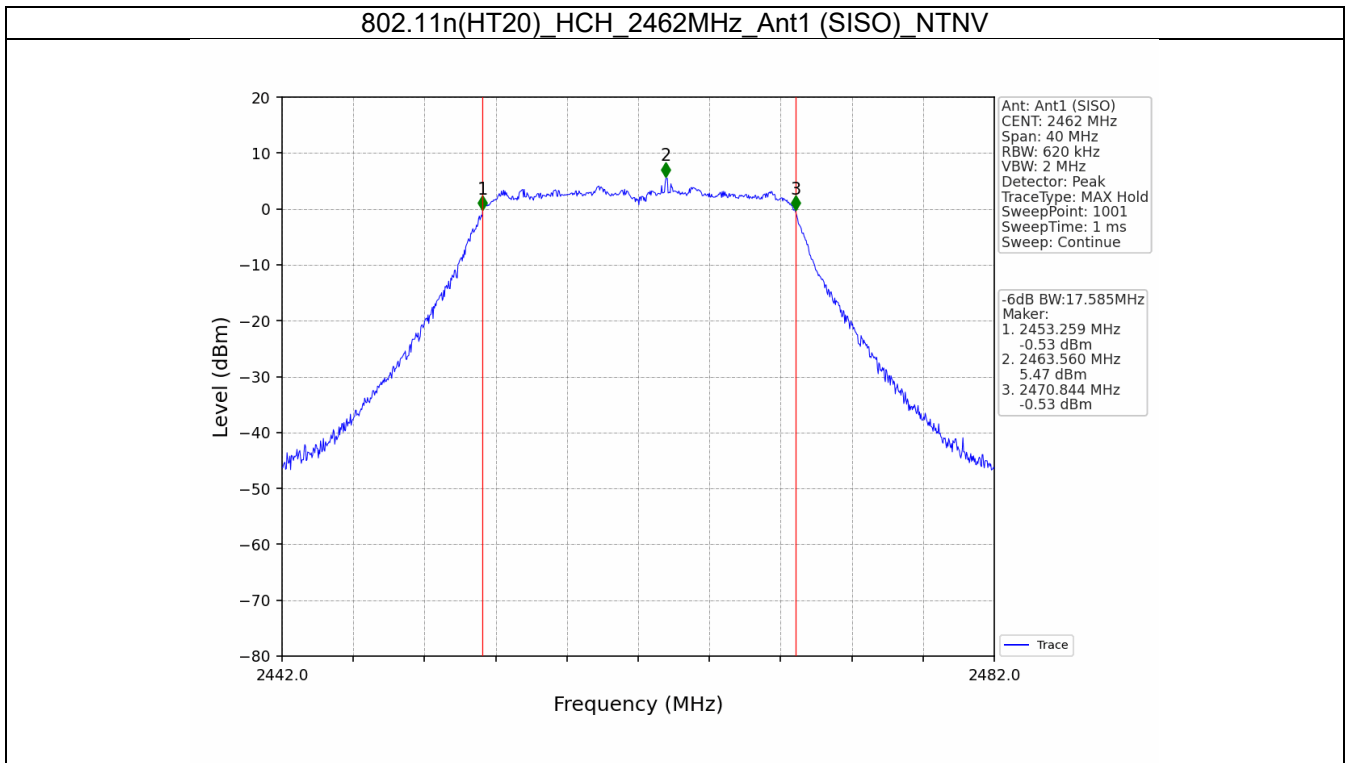












### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	16.31	<=30	Pass
		2437	16.47	<=30	Pass
		2462	16.59	<=30	Pass
802.11g	SISO	2412	17.39	<=30	Pass
		2437	17.61	<=30	Pass
		2462	17.73	<=30	Pass
802.11n (HT20)	SISO	2412	17.42	<=30	Pass
		2437	17.62	<=30	Pass
		2462	17.63	<=30	Pass

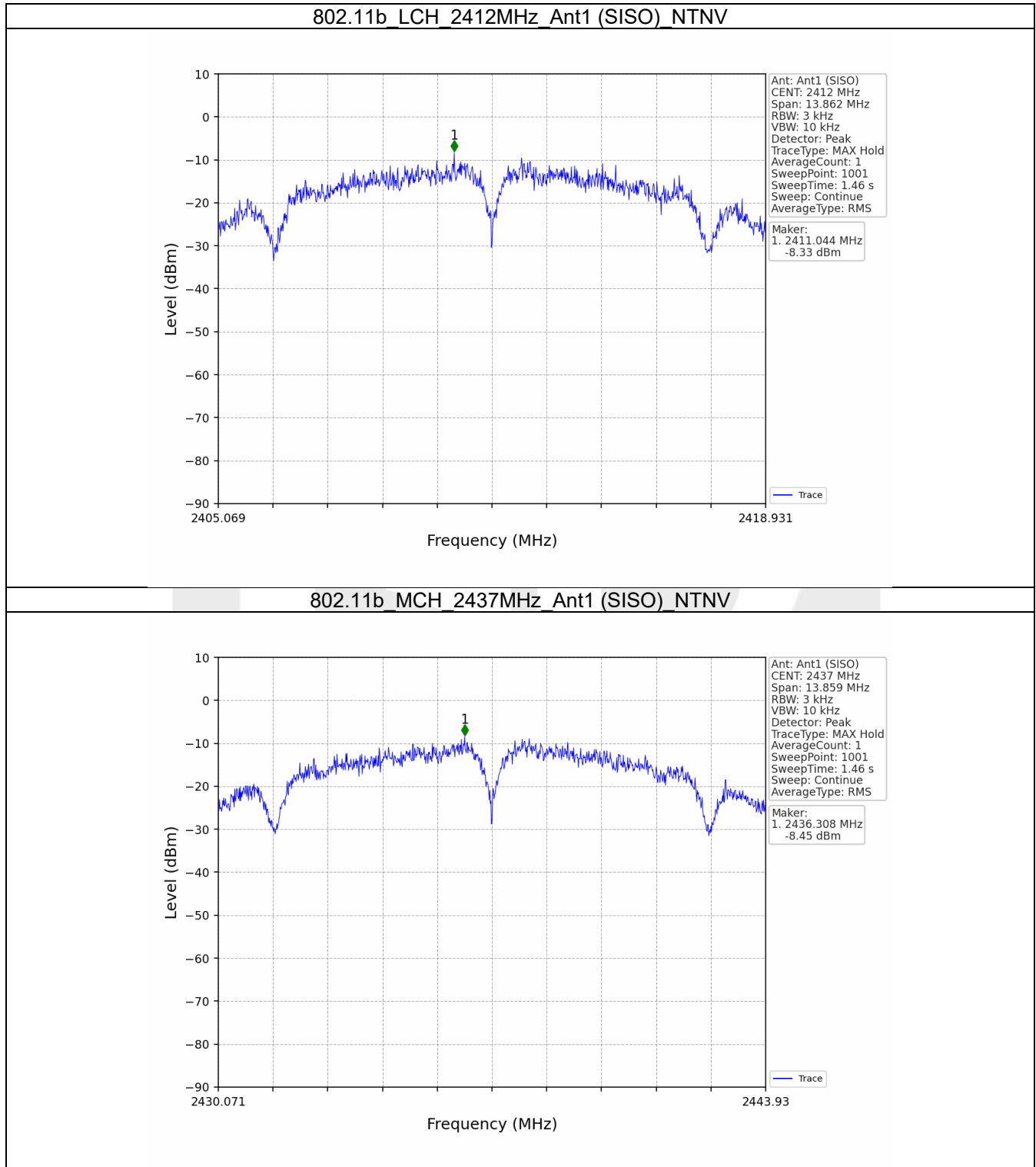
#### 4. Maximum Power Spectral Density

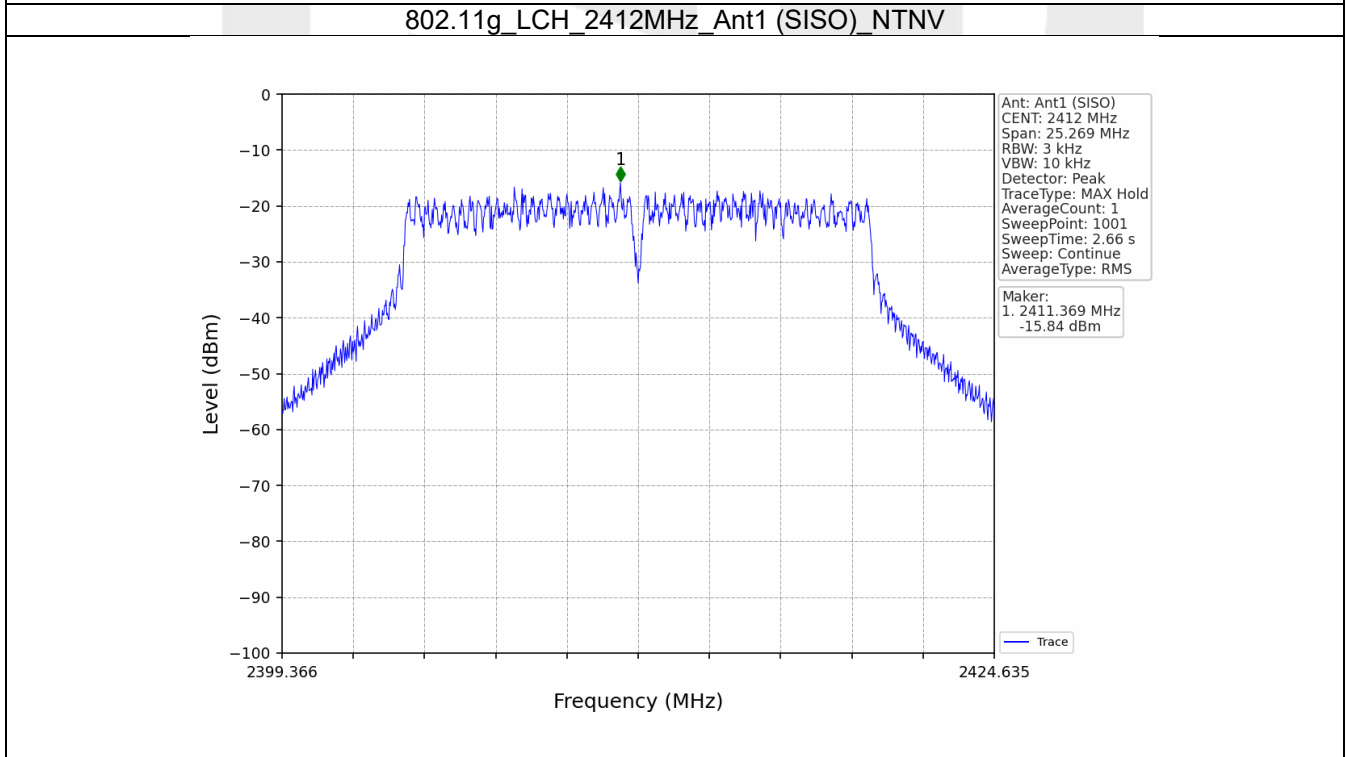
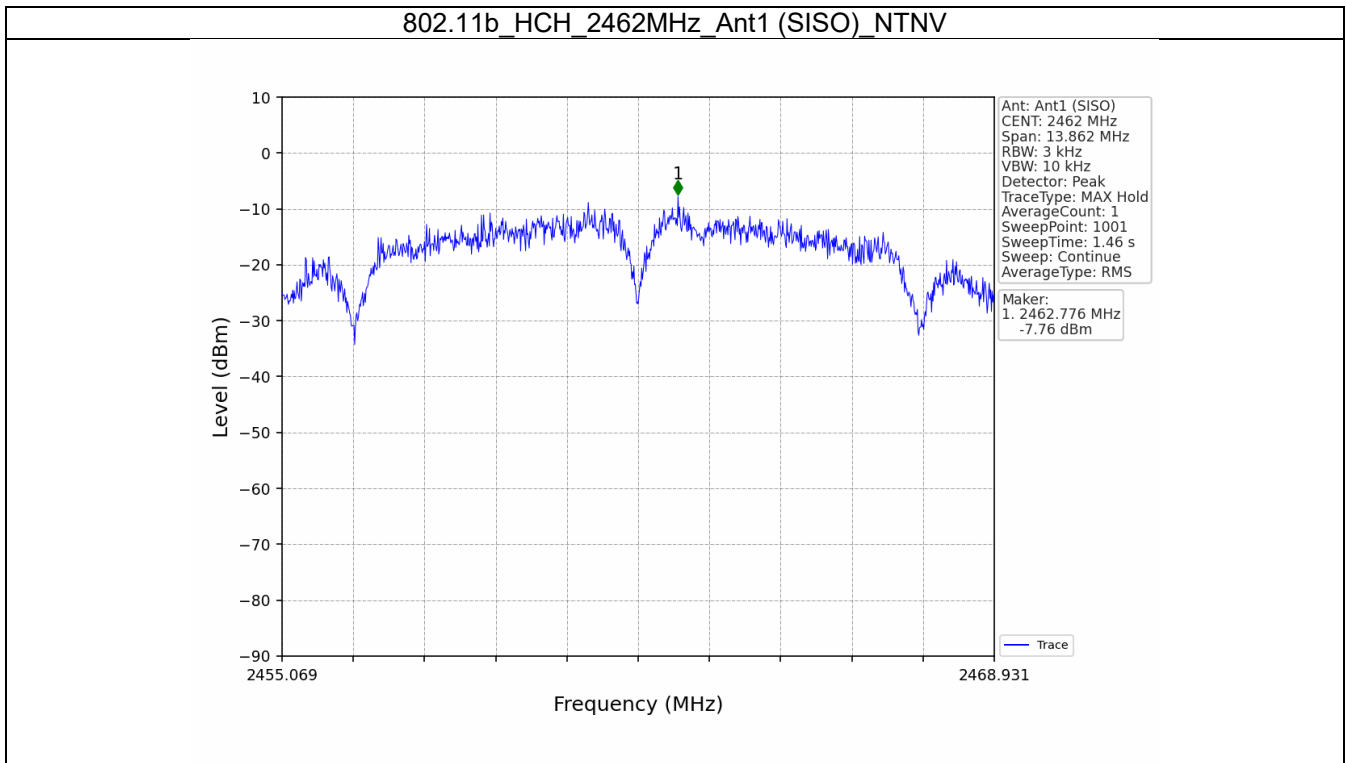
##### 4.1 PSD

##### 4.1.1 Test Result

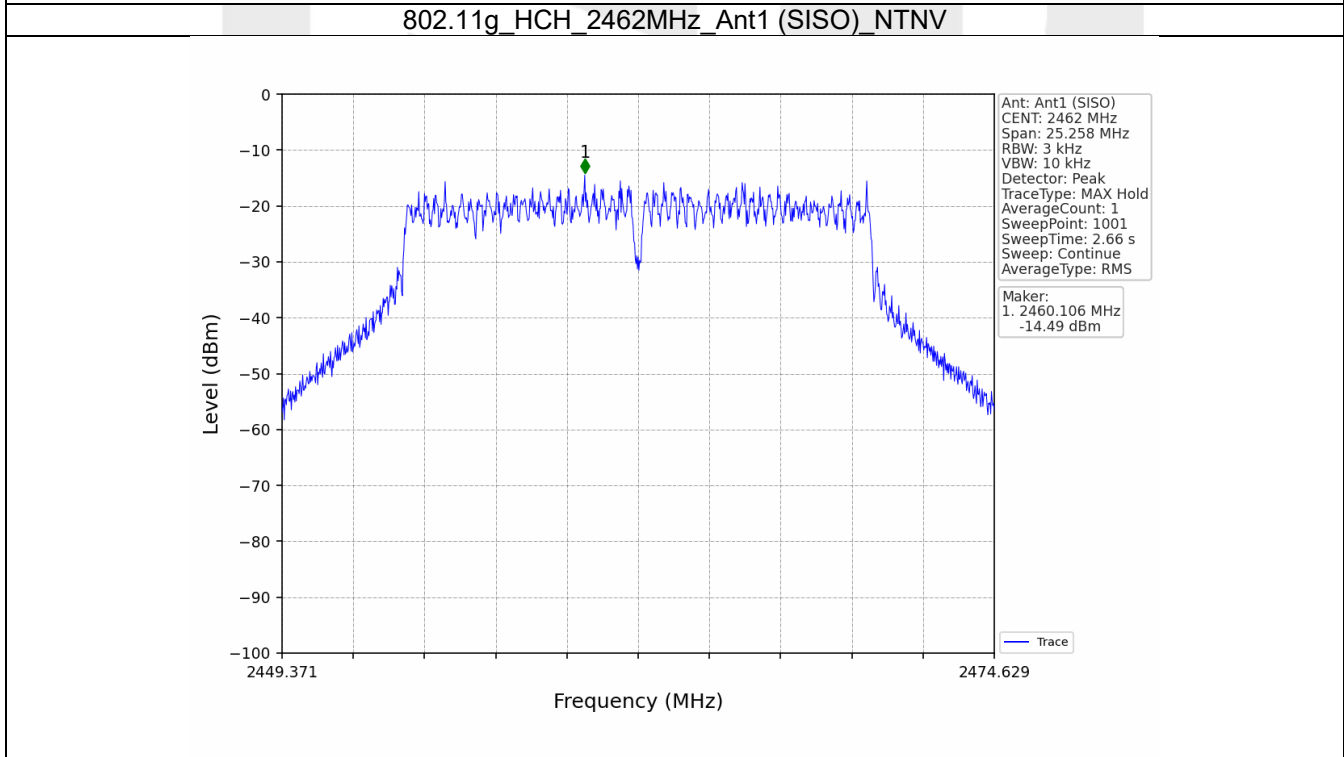
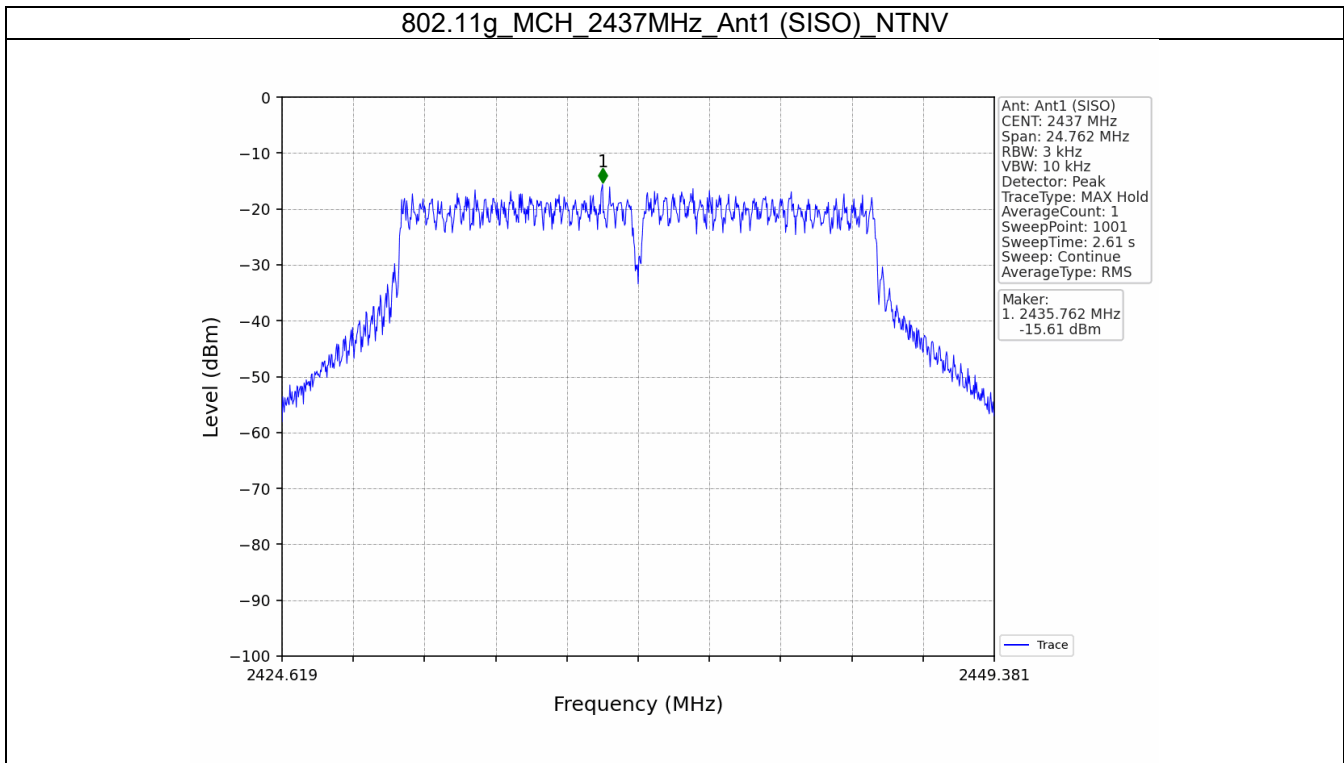
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.33	<=8	Pass
		2437	-8.45	<=8	Pass
		2462	-7.76	<=8	Pass
802.11g	SISO	2412	-15.84	<=8	Pass
		2437	-15.61	<=8	Pass
		2462	-14.49	<=8	Pass
802.11n (HT20)	SISO	2412	-15.81	<=8	Pass
		2437	-16.45	<=8	Pass
		2462	-16.28	<=8	Pass

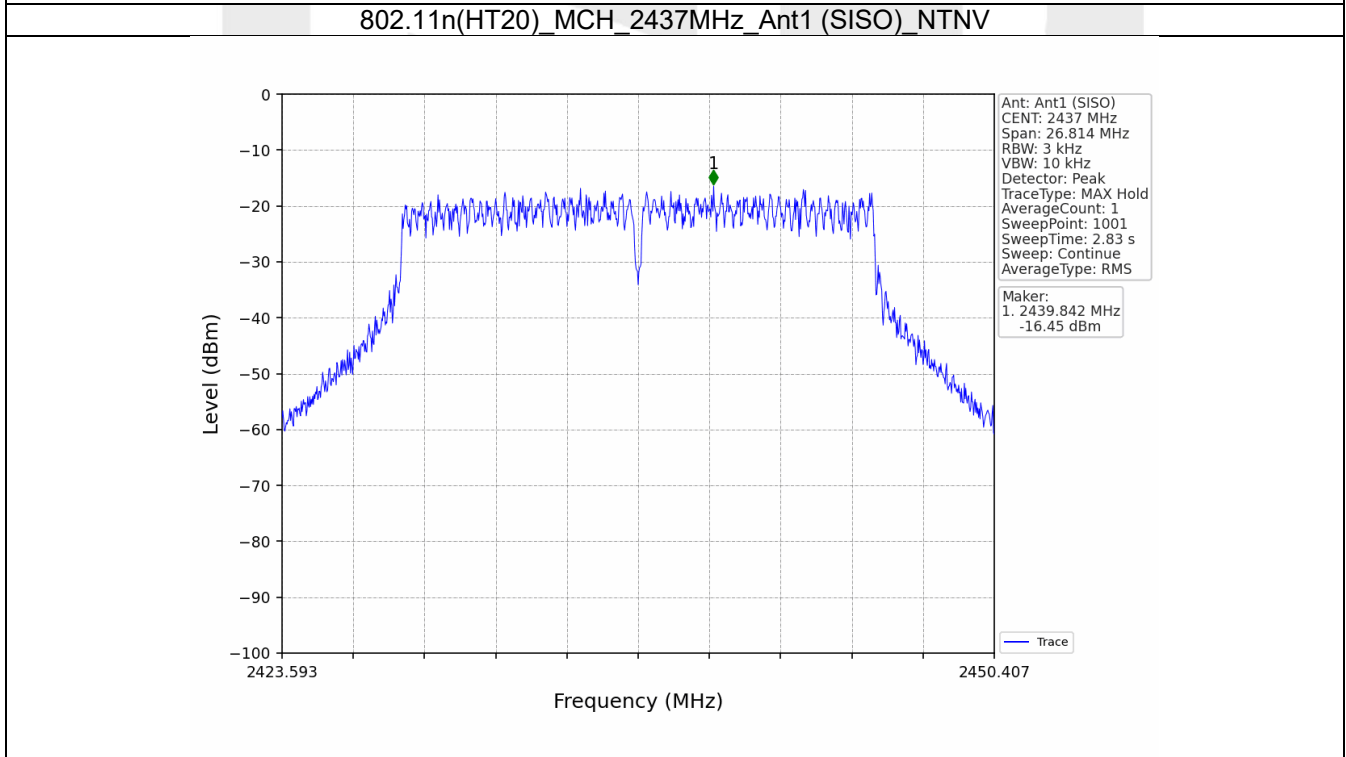
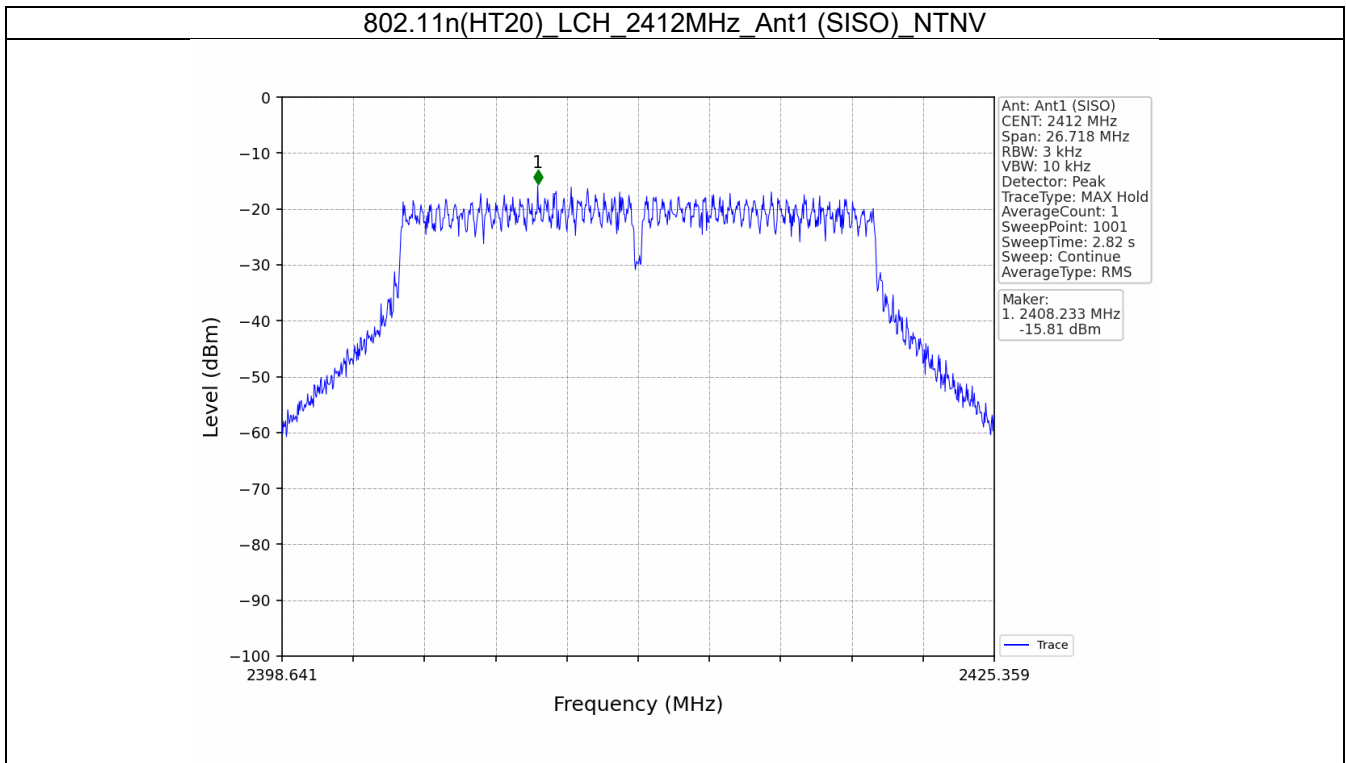
4.1.2 Test Graph

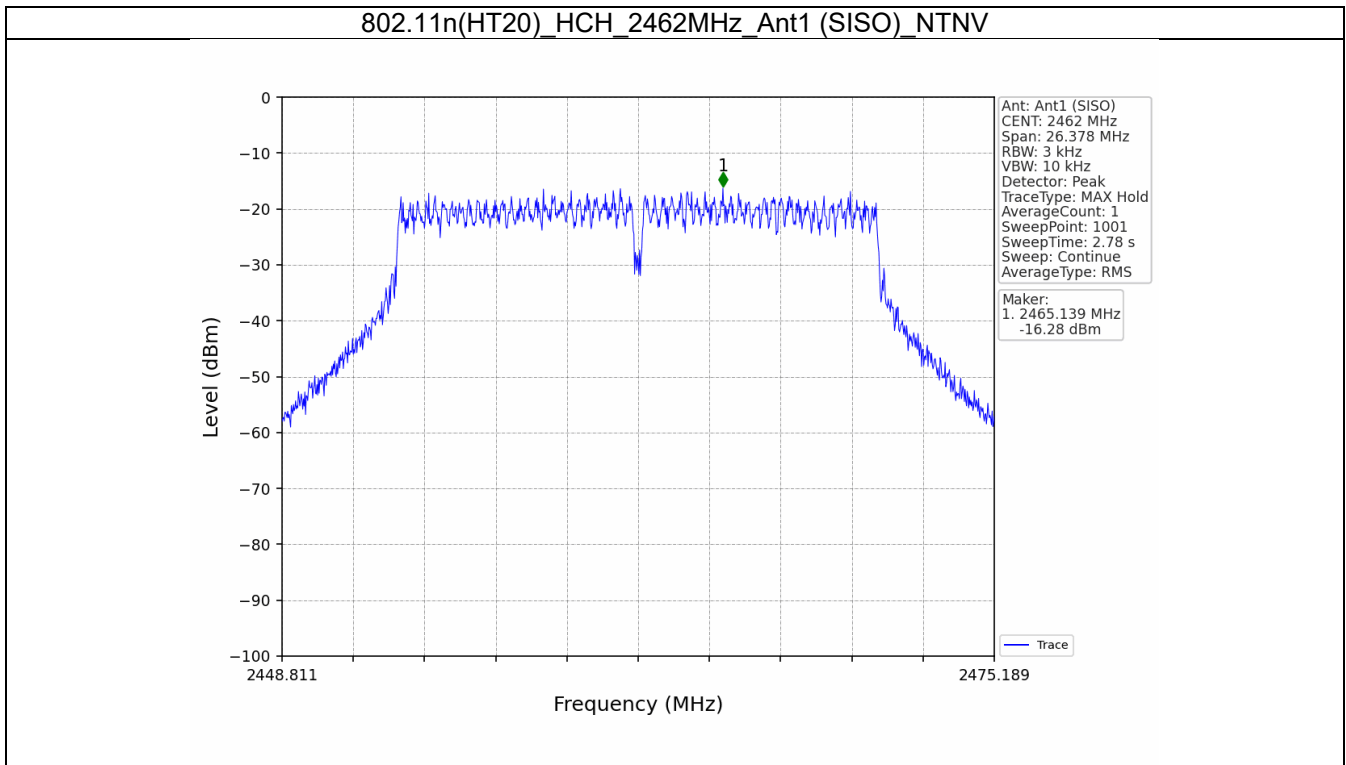












## 5. Unwanted Emissions In Non-restricted Frequency Bands

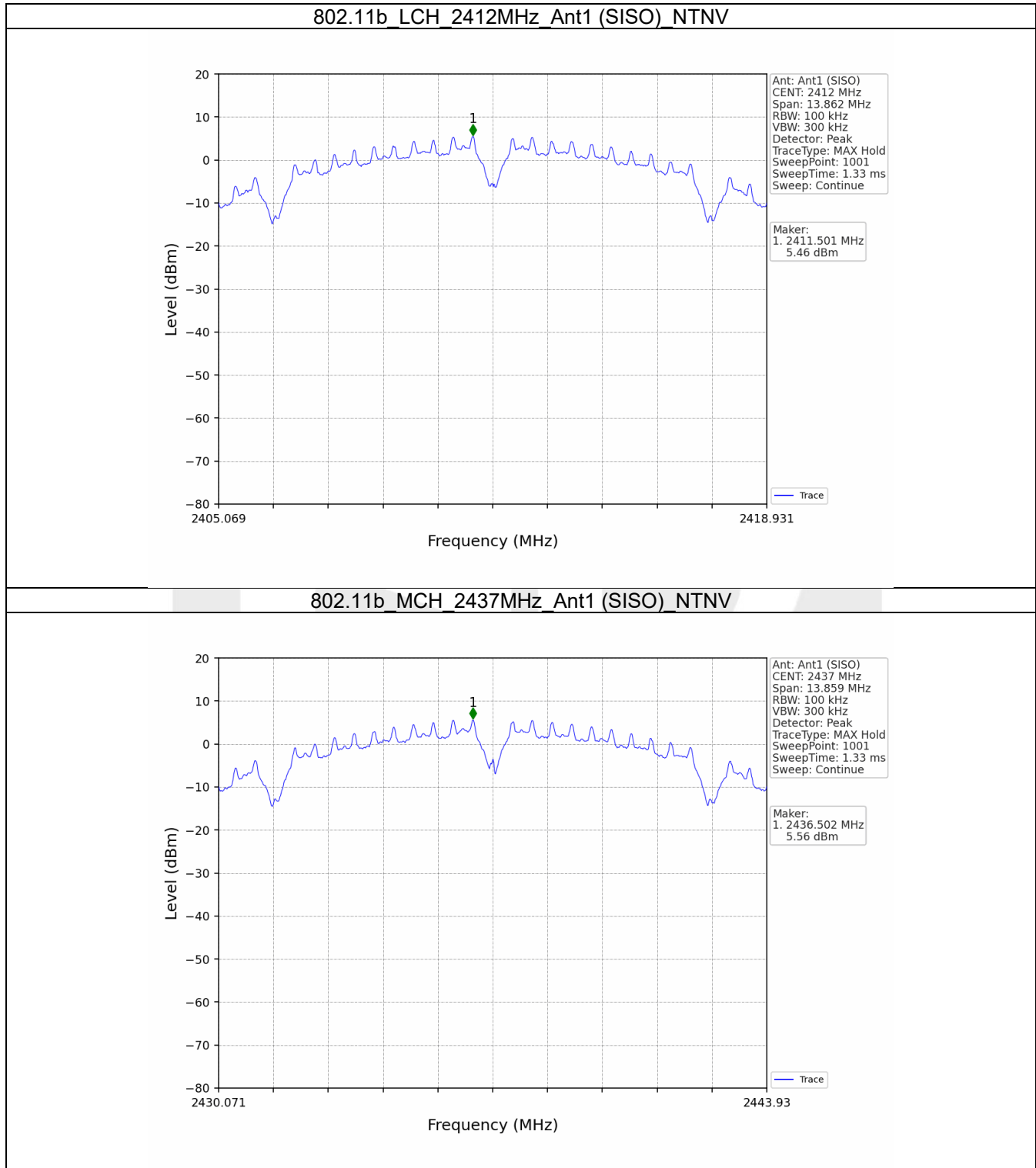
### 5.1 Ref

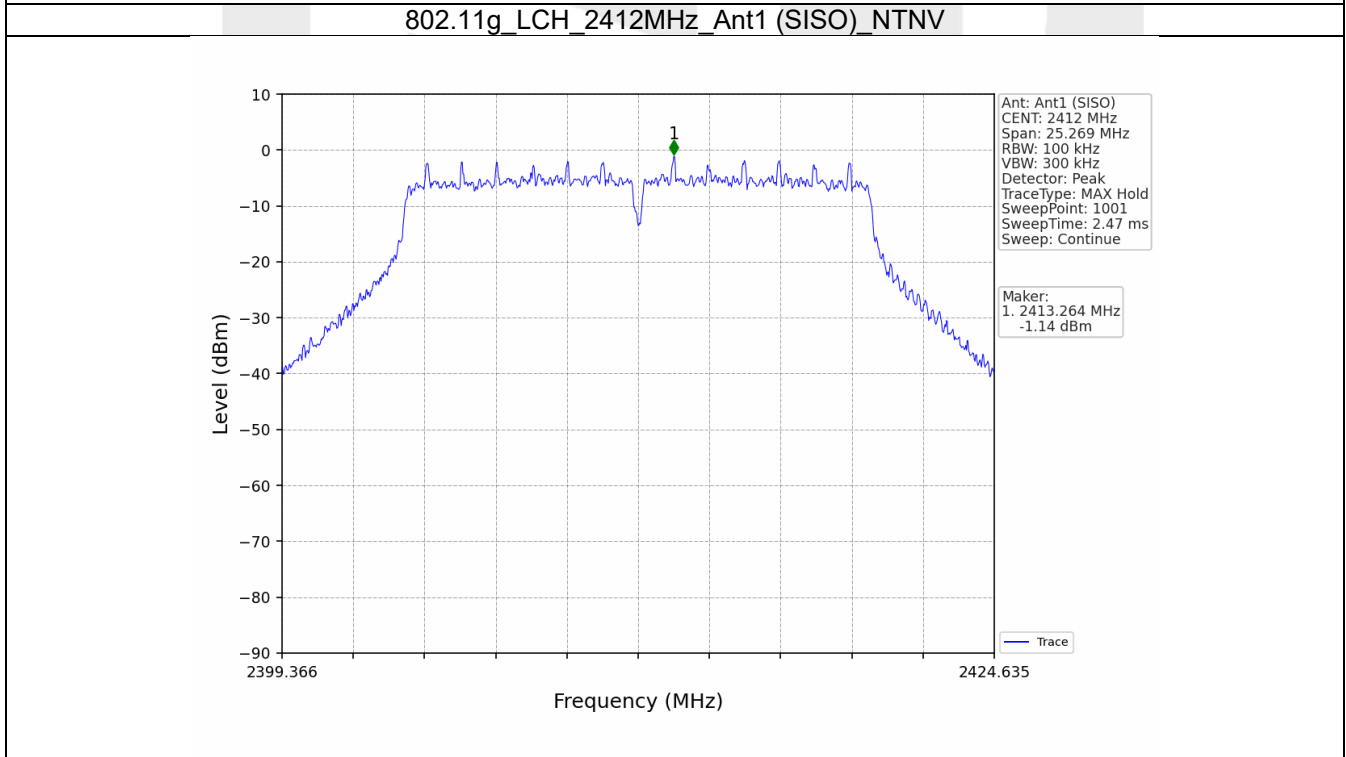
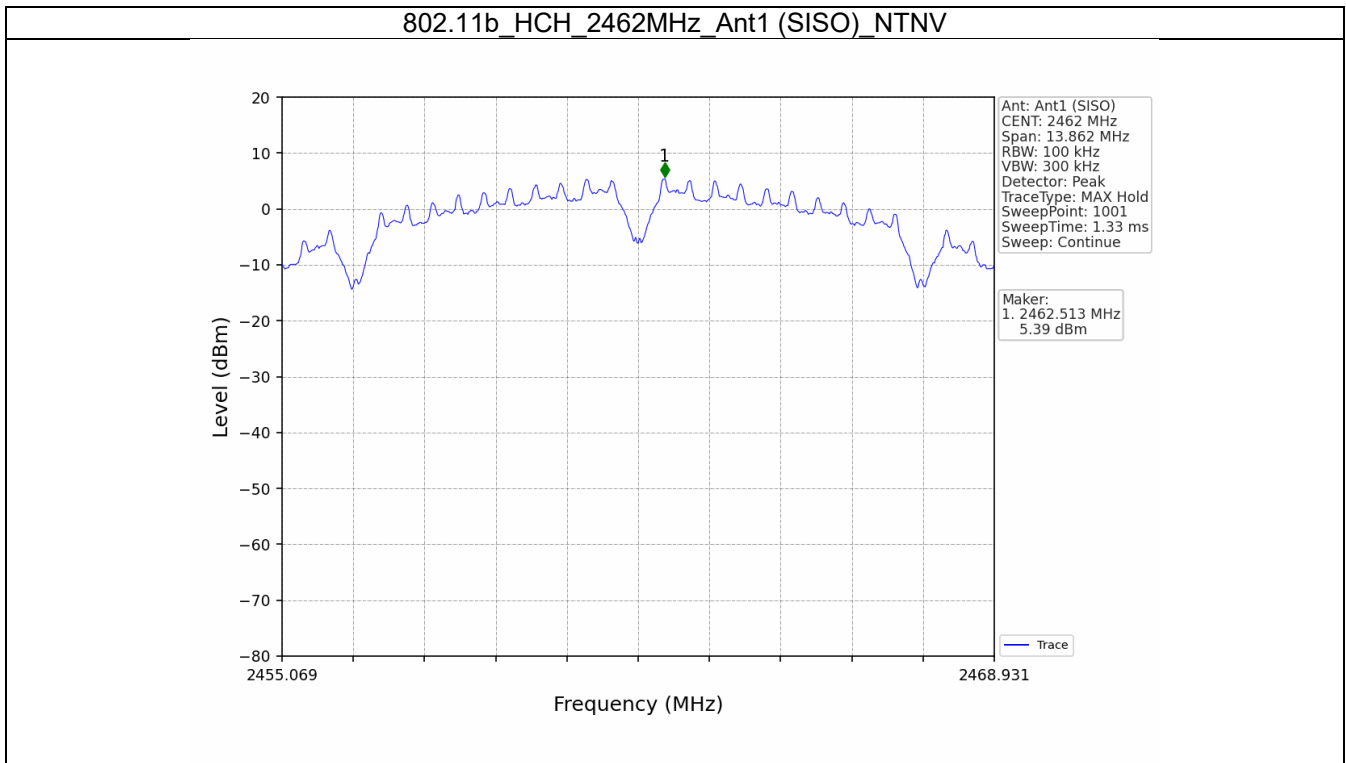
#### 5.1.1 Test Result

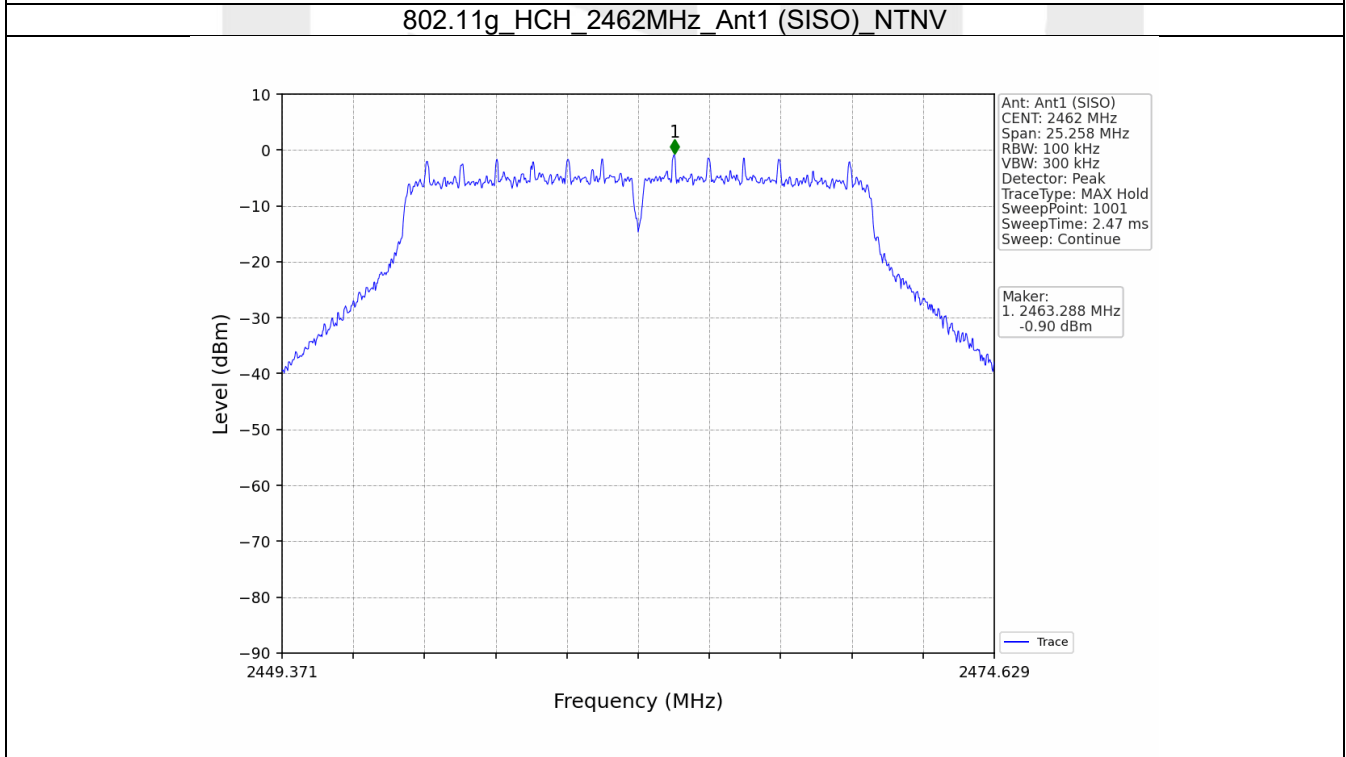
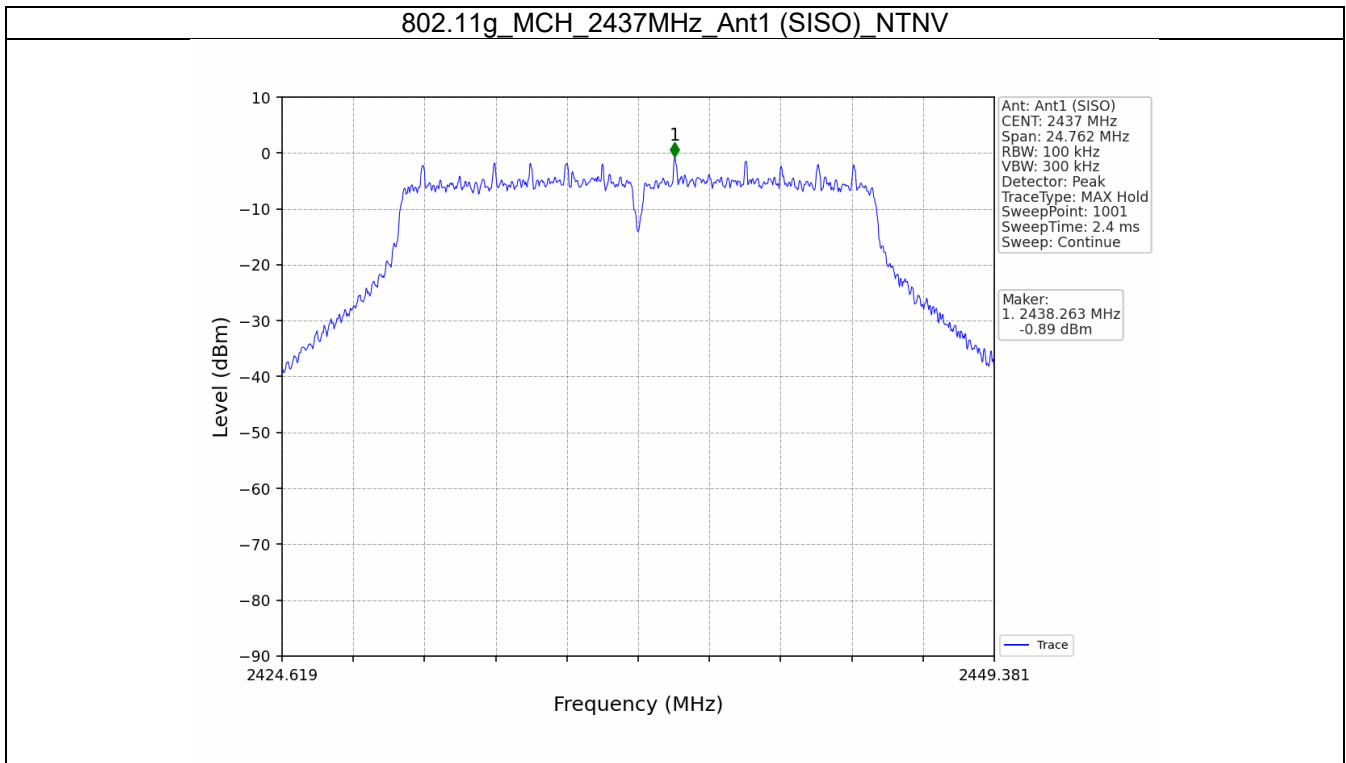
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.46
		2437	1	5.56
		2462	1	5.39
802.11g	SISO	2412	1	-1.14
		2437	1	-0.89
		2462	1	-0.90
802.11n (HT20)	SISO	2412	1	-1.52
		2437	1	-0.88
		2462	1	-0.77

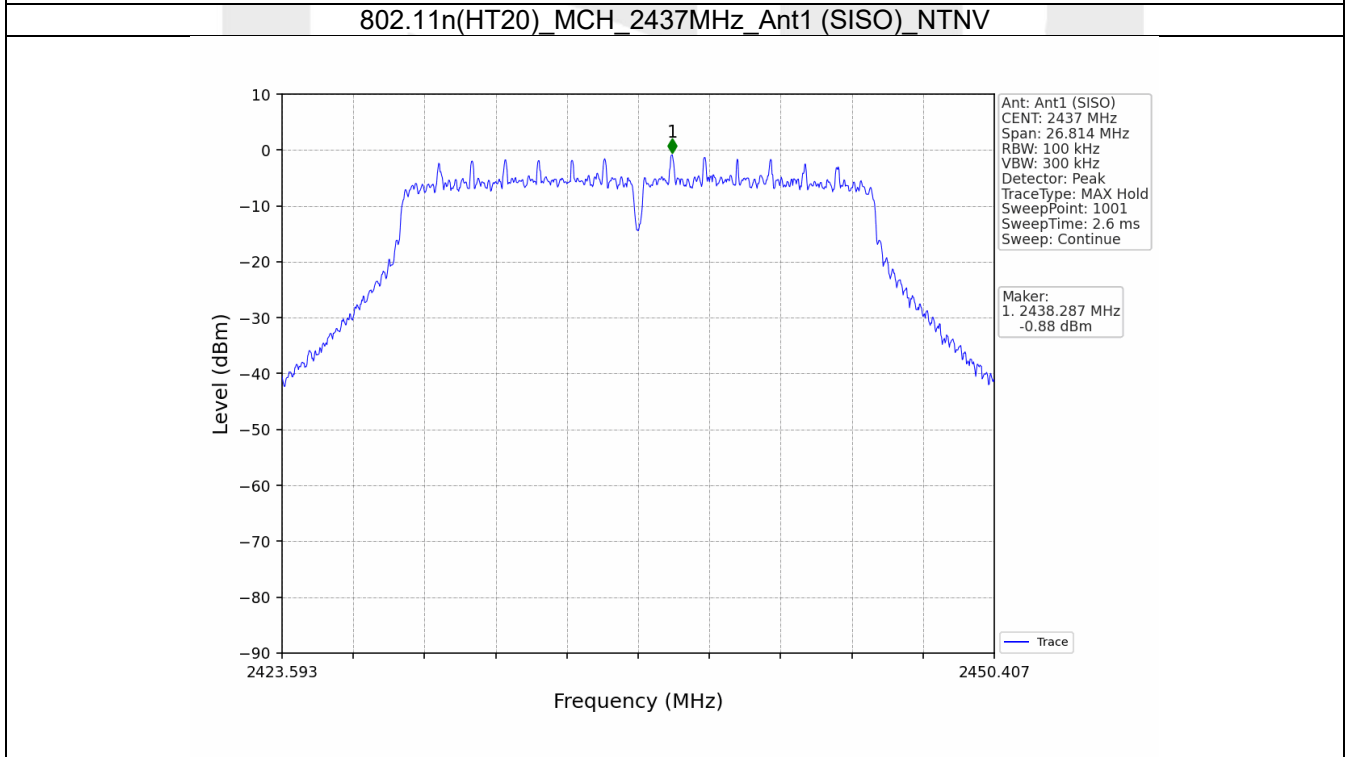
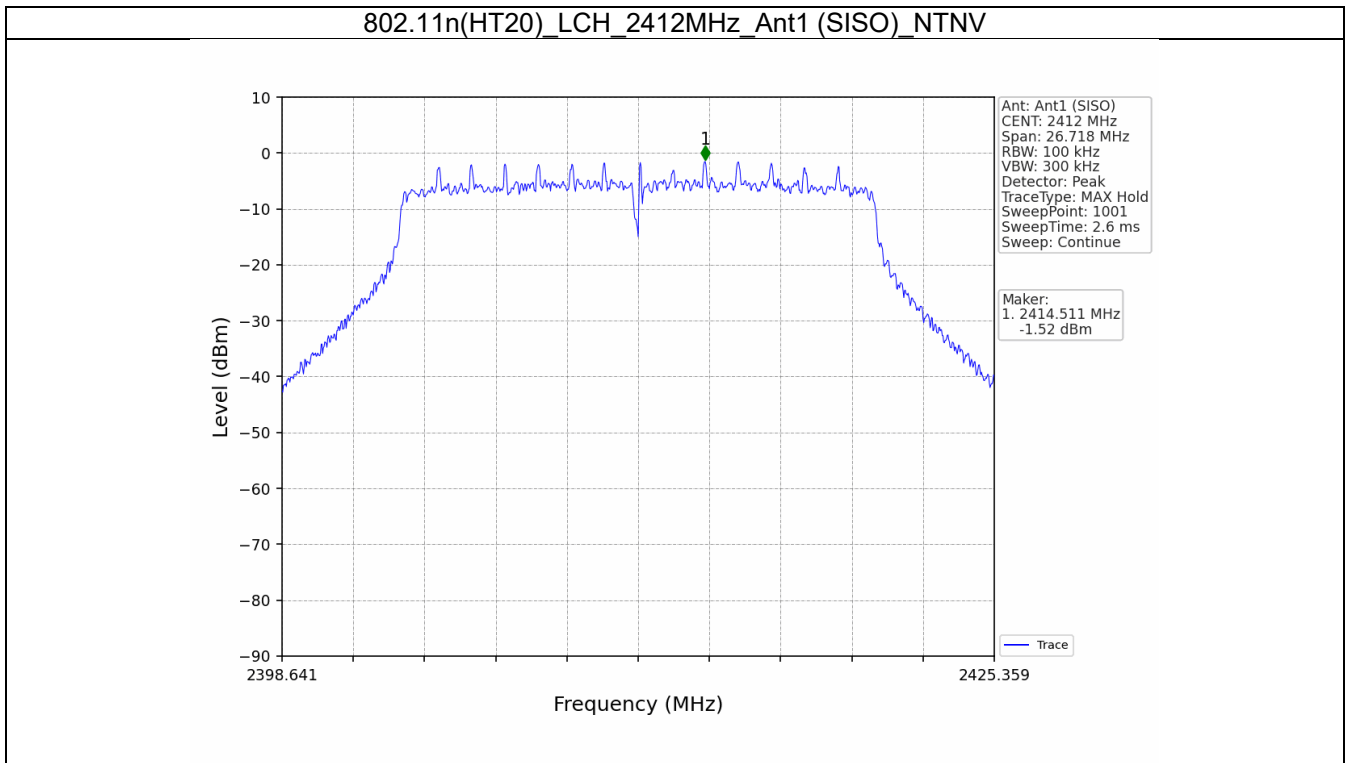
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

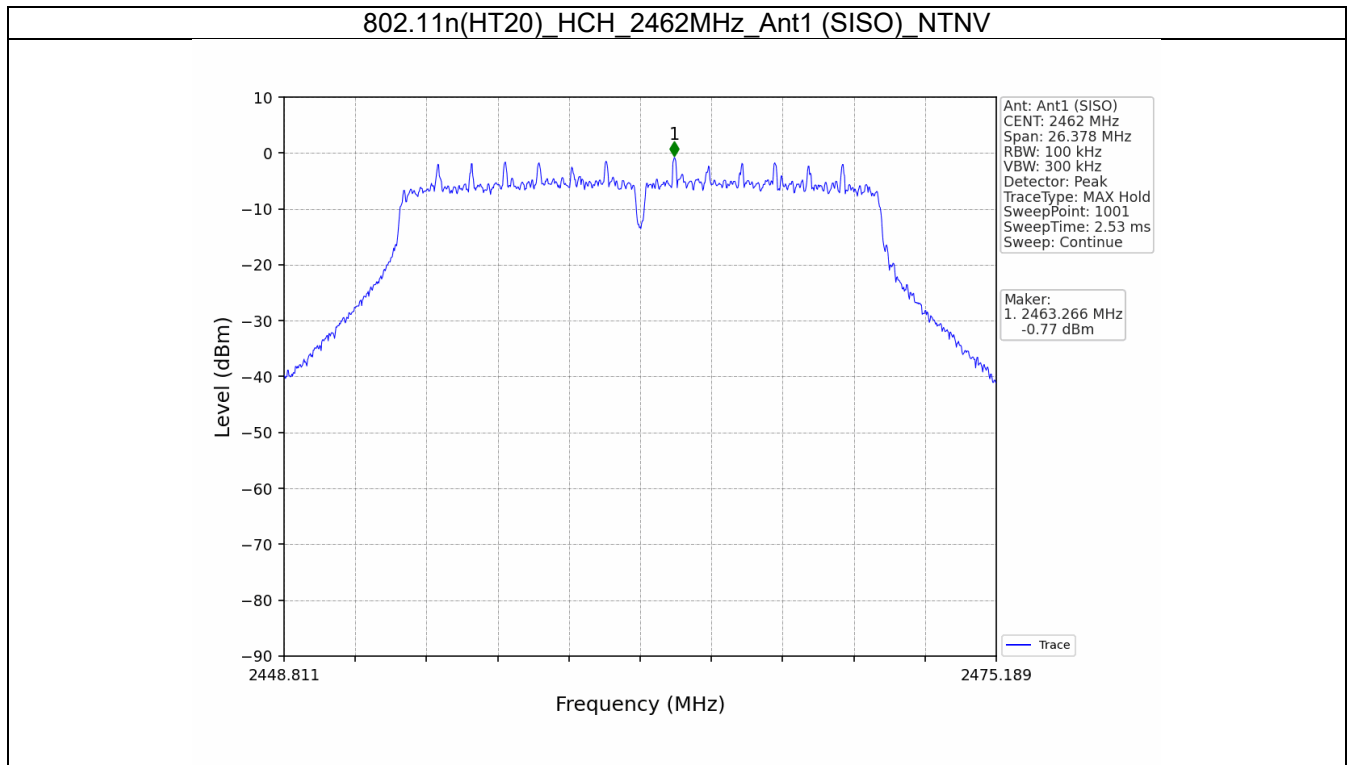










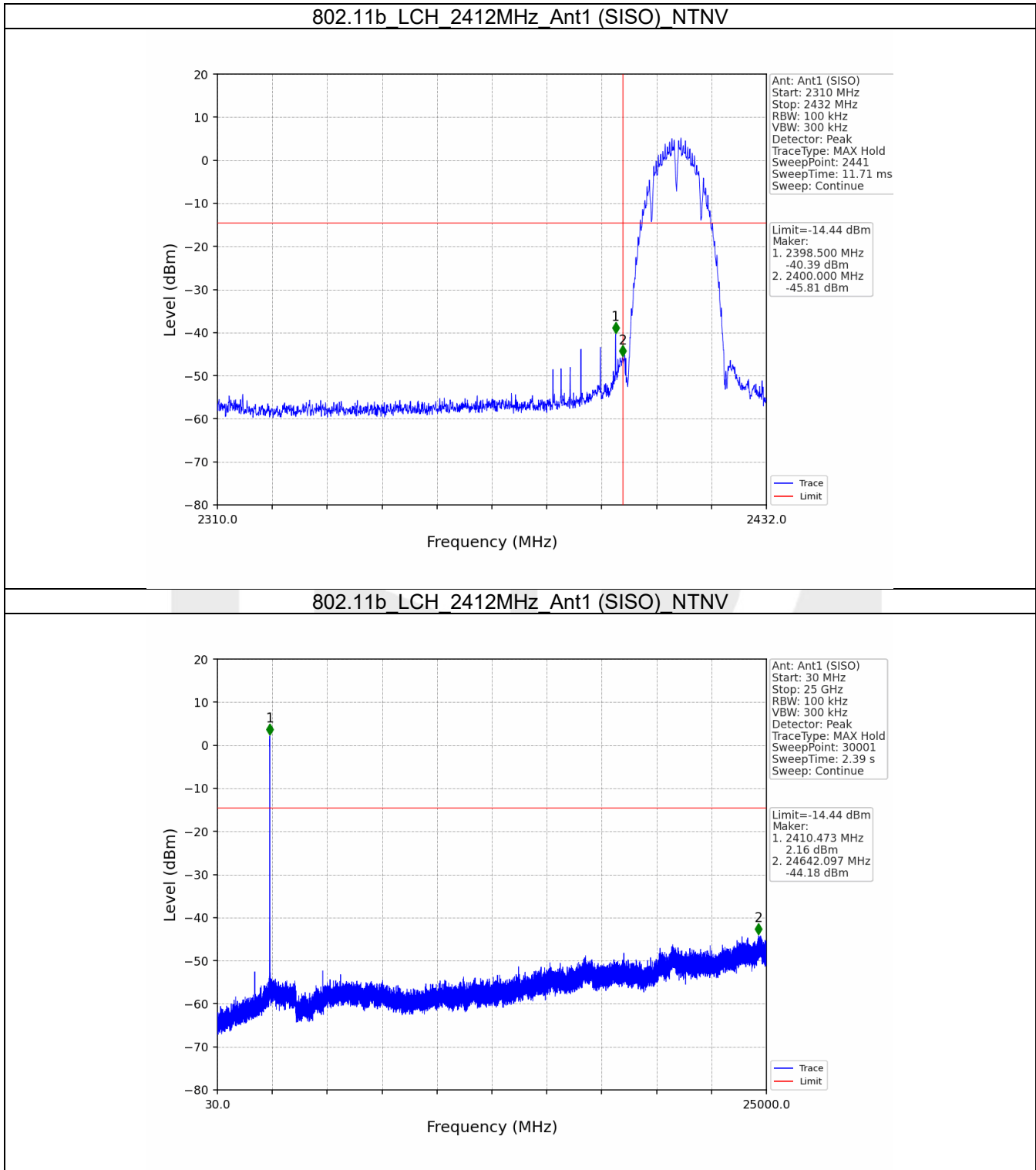


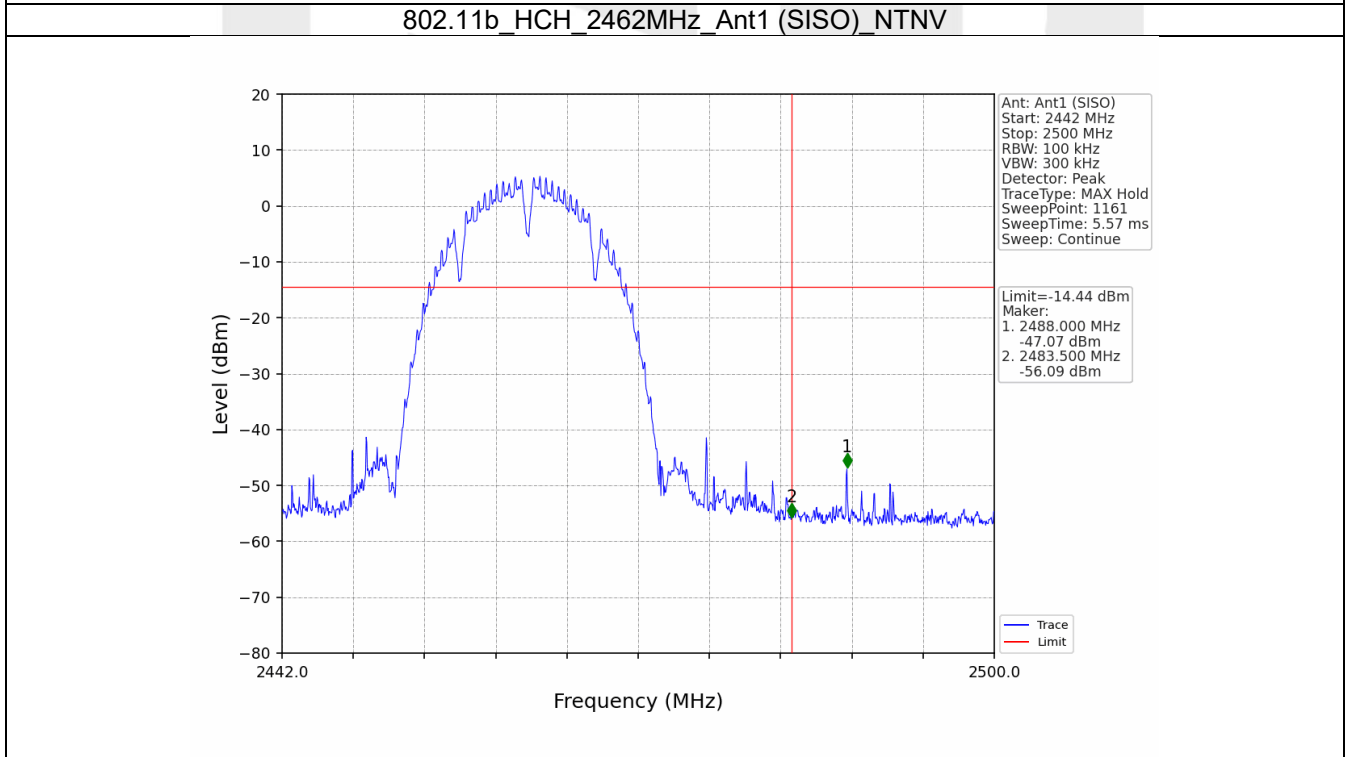
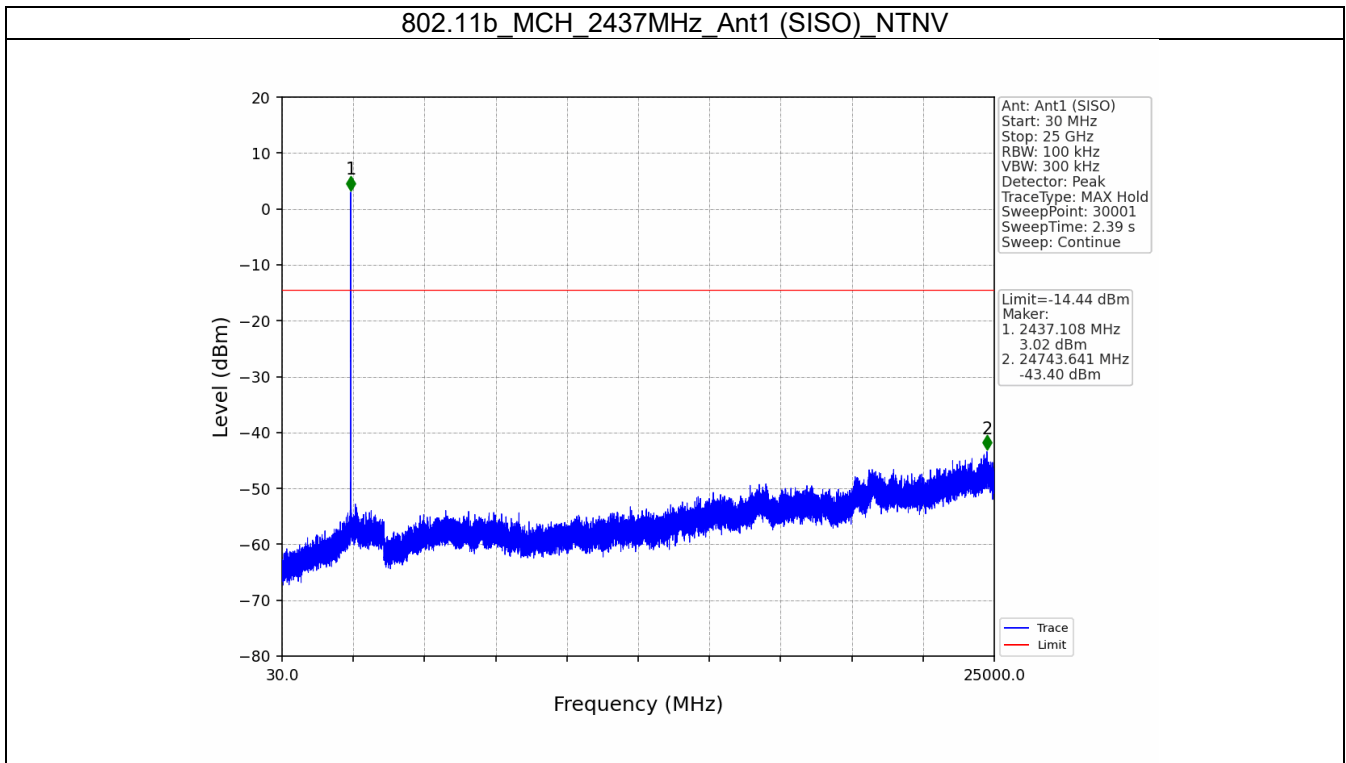
**5.2 CSE**
**5.2.1 Test Result**

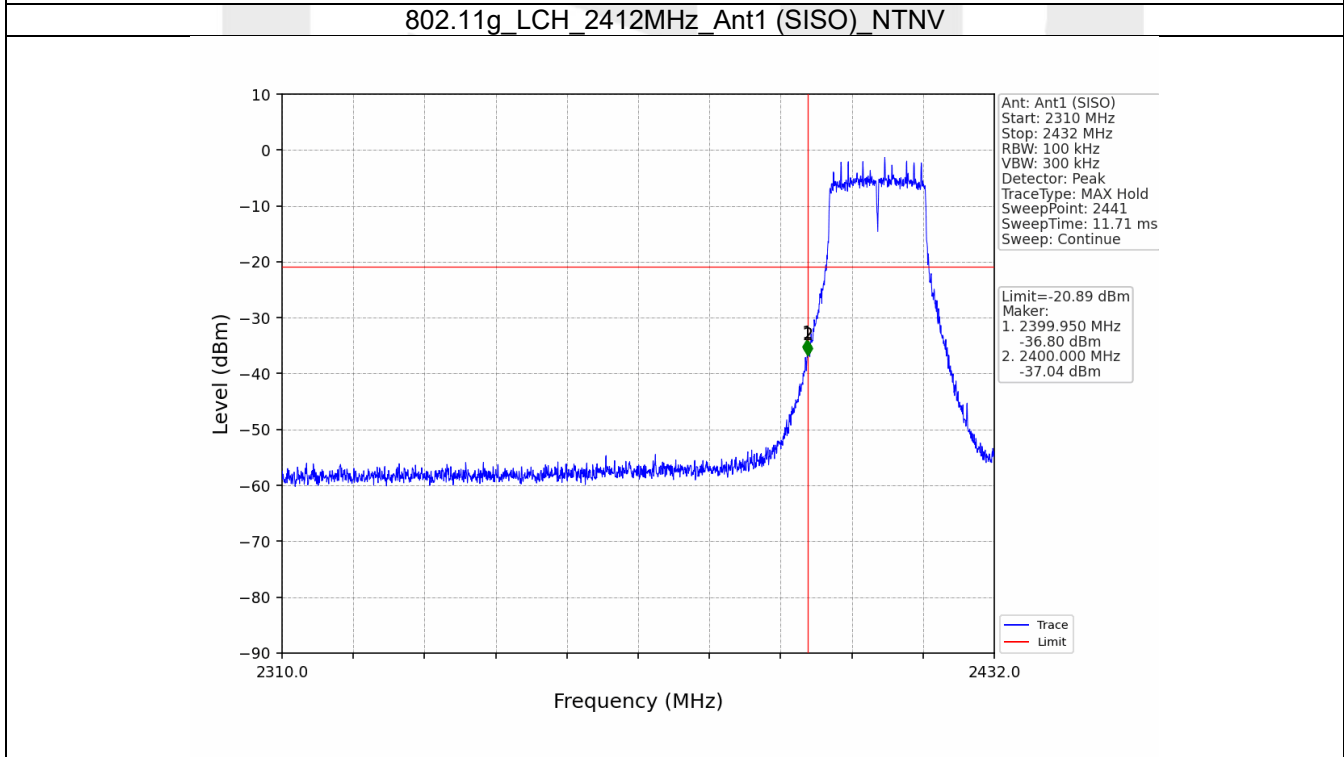
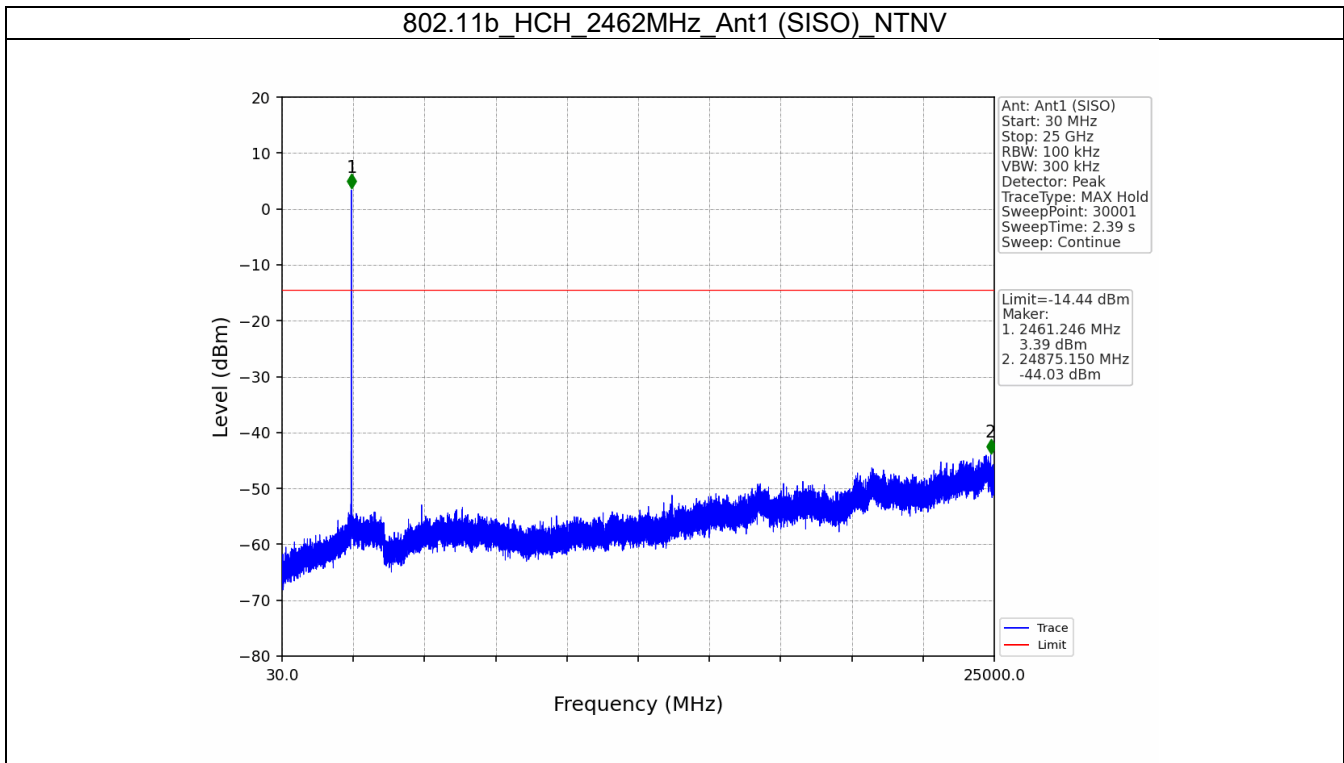
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.56	-14.44	Pass
		2437	1	5.56	-14.44	Pass
		2462	1	5.56	-14.44	Pass
802.11g	SISO	2412	1	-0.89	-20.89	Pass
		2437	1	-0.89	-20.89	Pass
		2462	1	-0.89	-20.89	Pass
802.11n (HT20)	SISO	2412	1	-0.77	-20.77	Pass
		2437	1	-0.77	-20.77	Pass
		2462	1	-0.77	-20.77	Pass

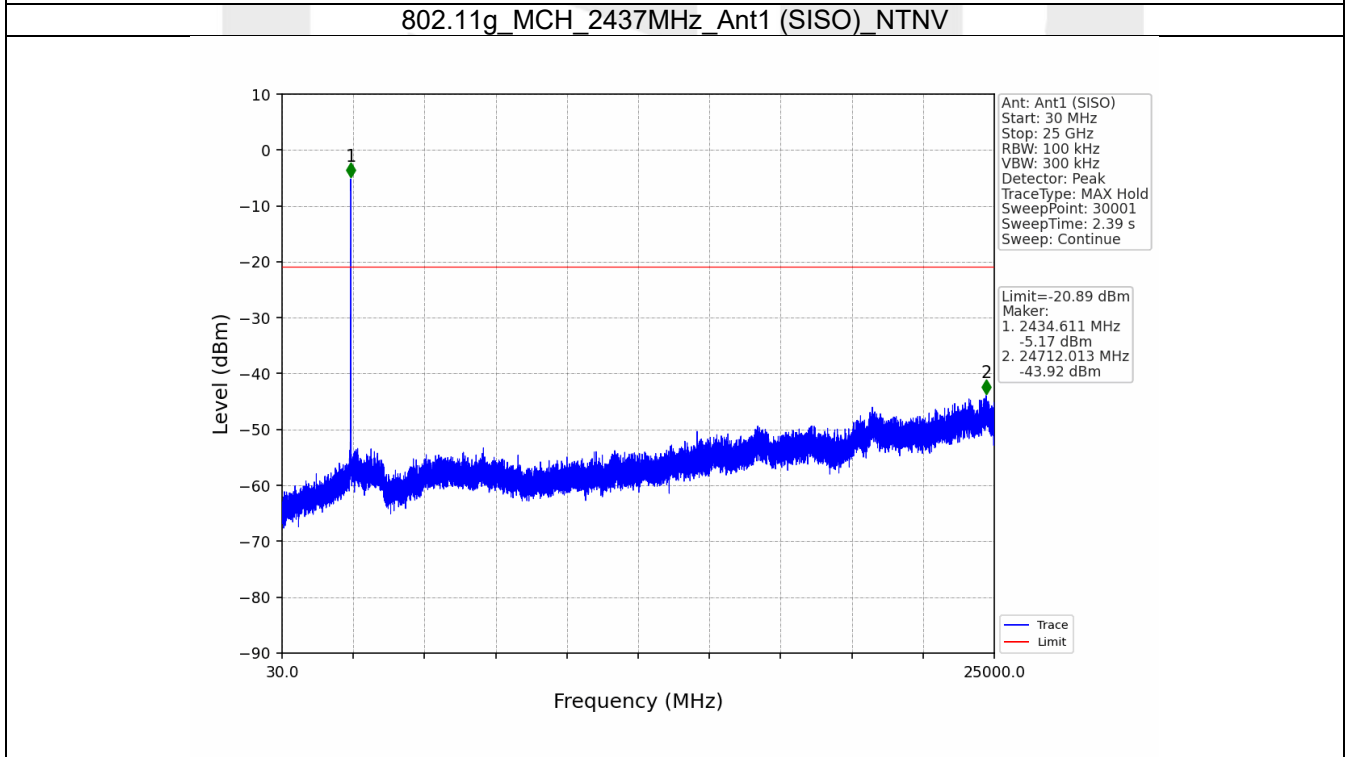
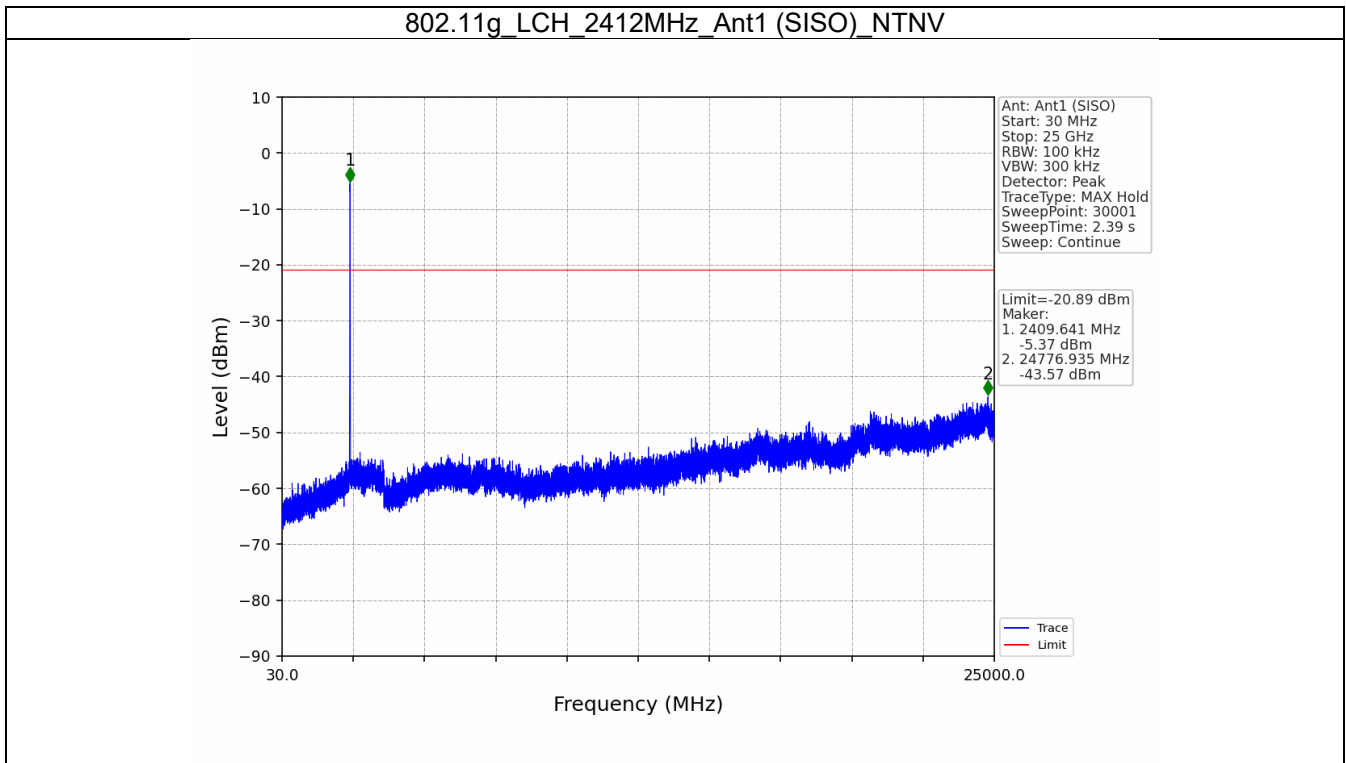
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

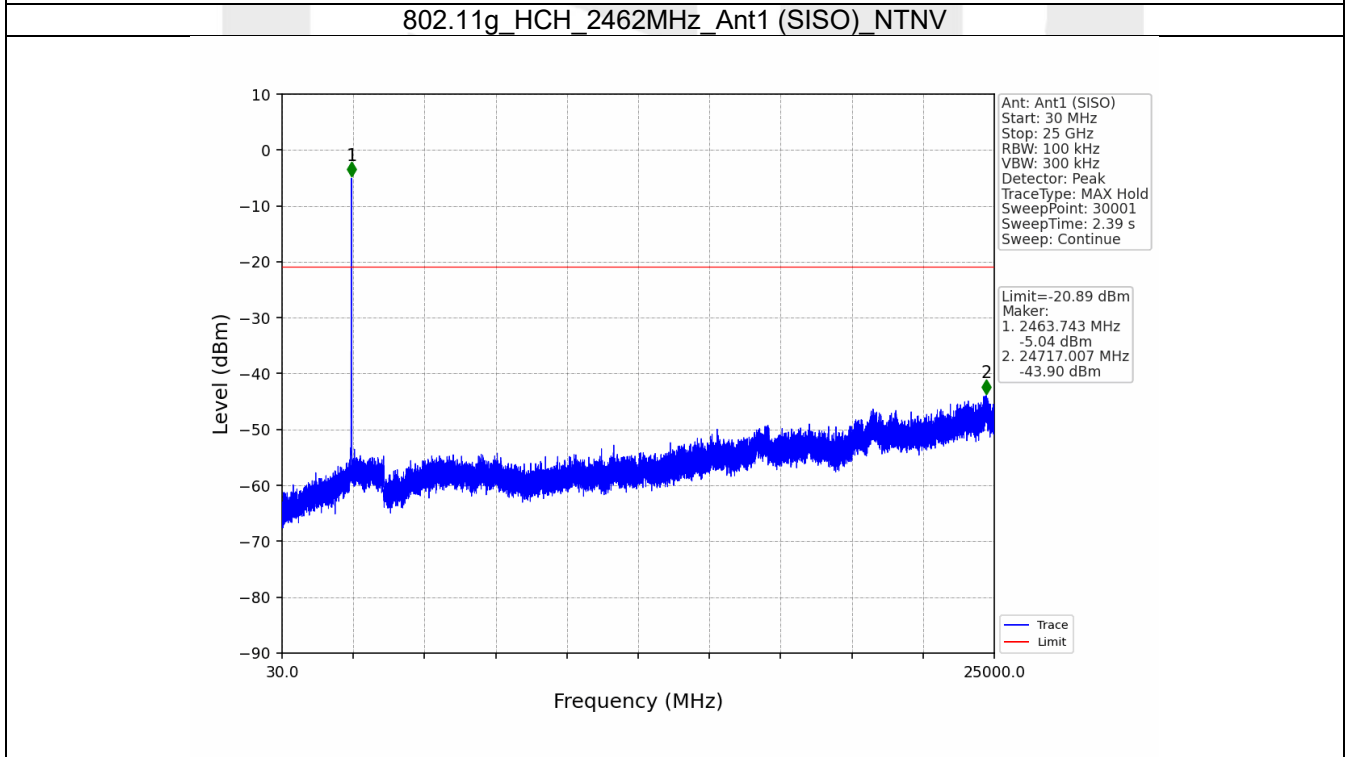
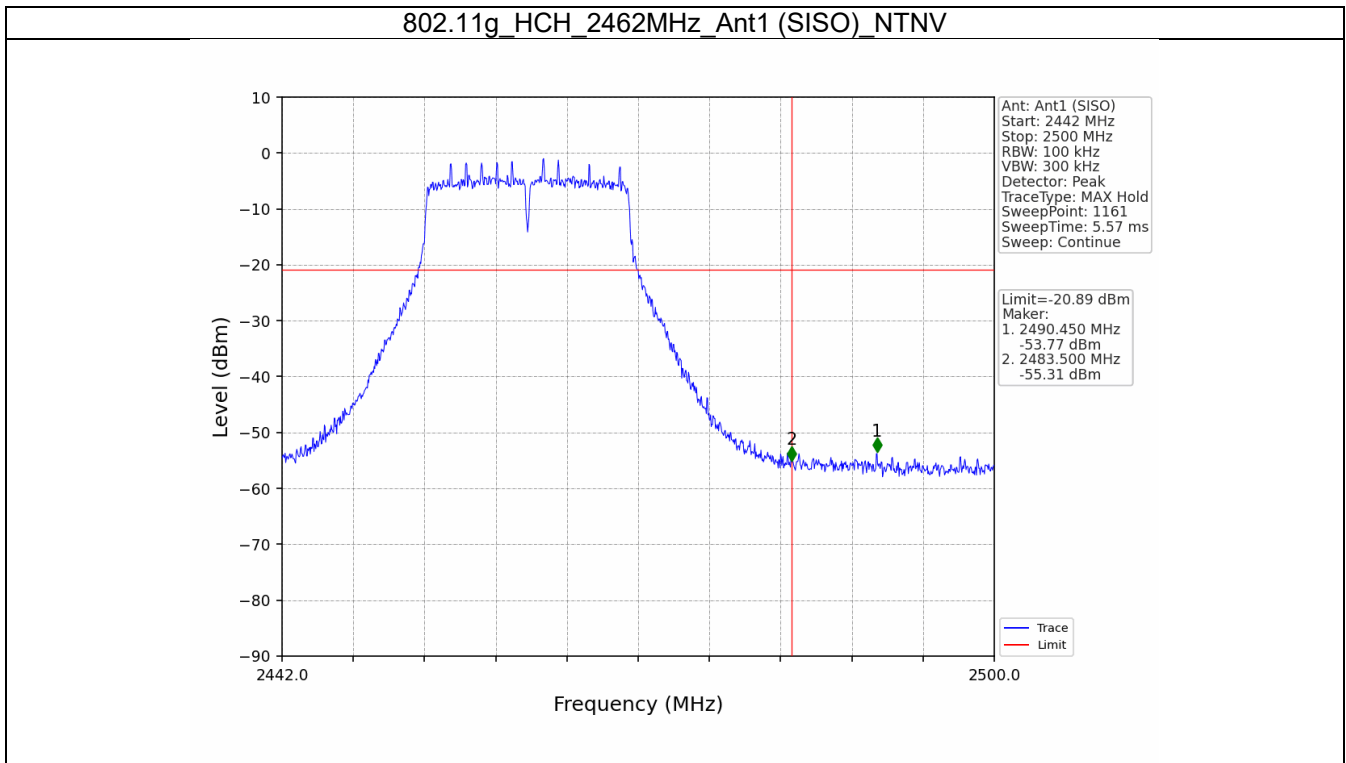
5.2.2 Test Graph

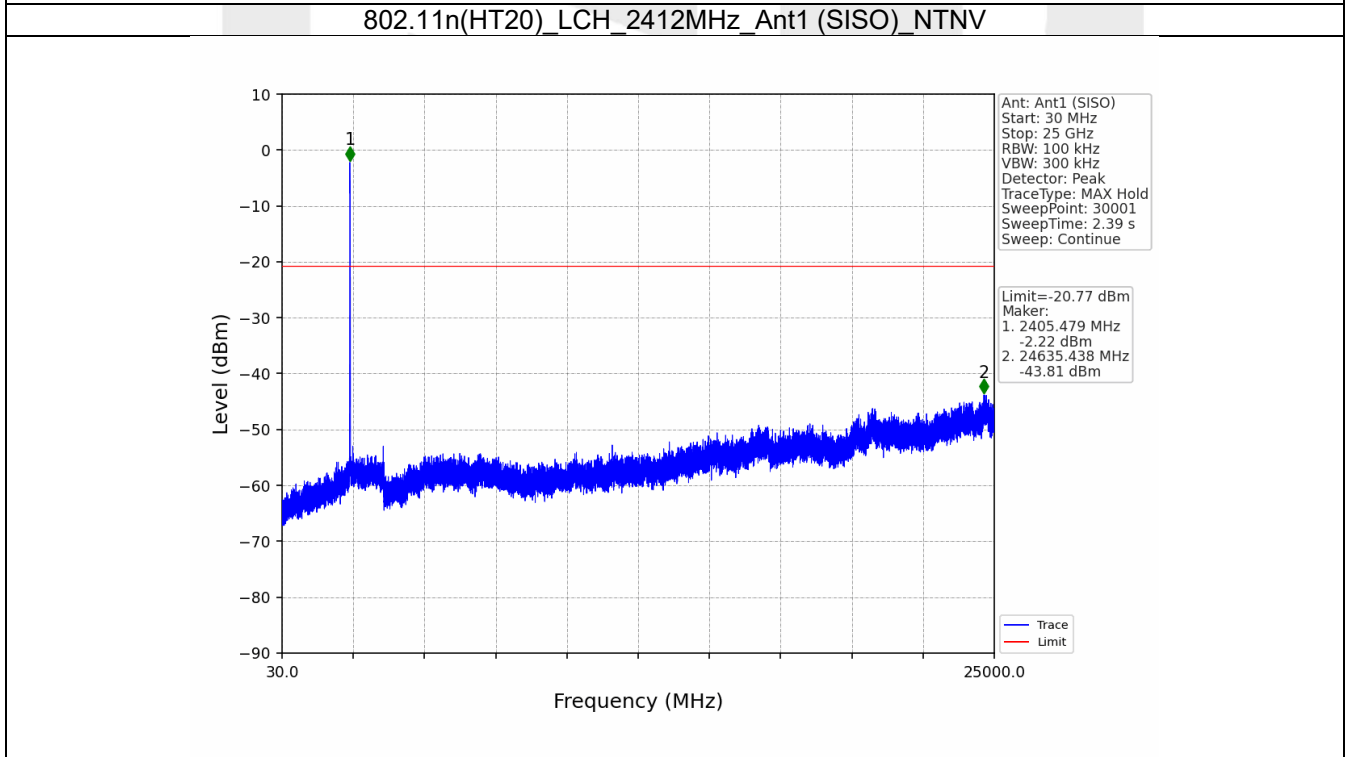
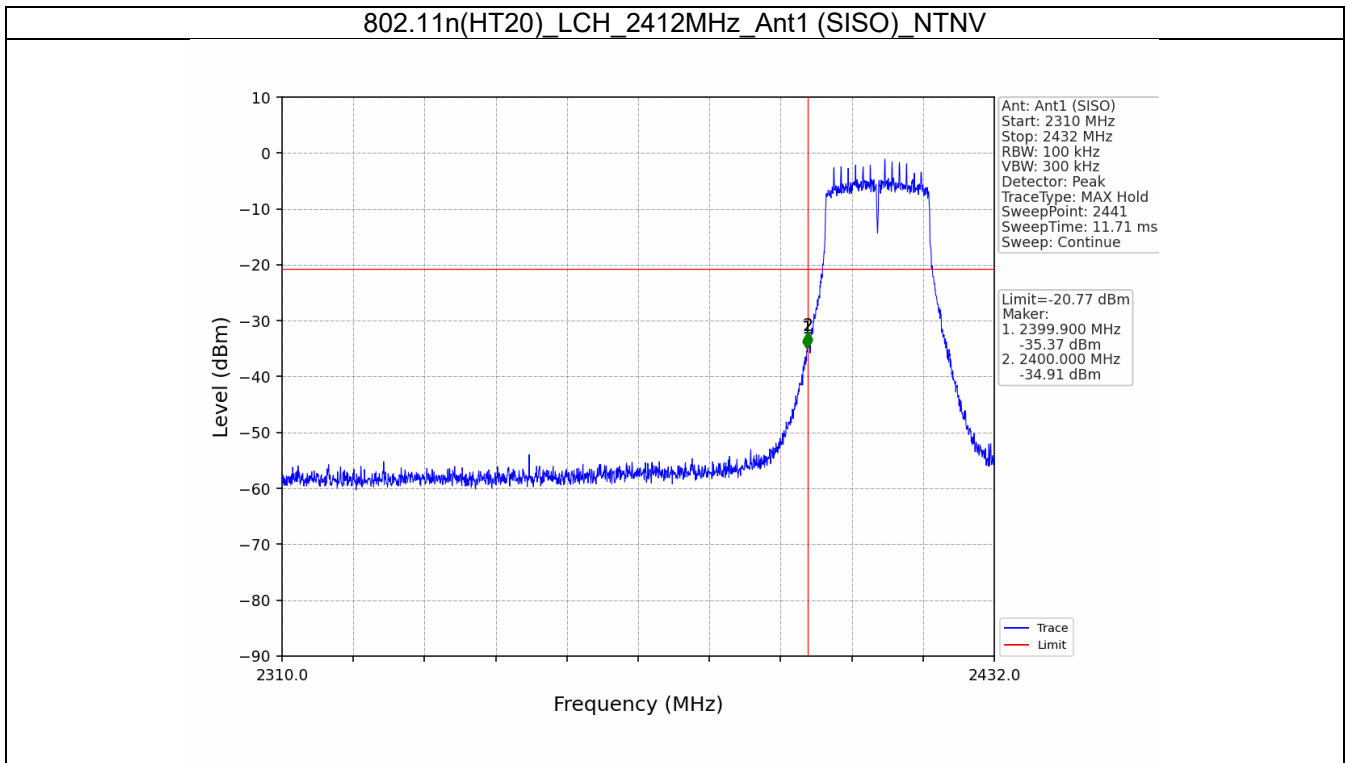




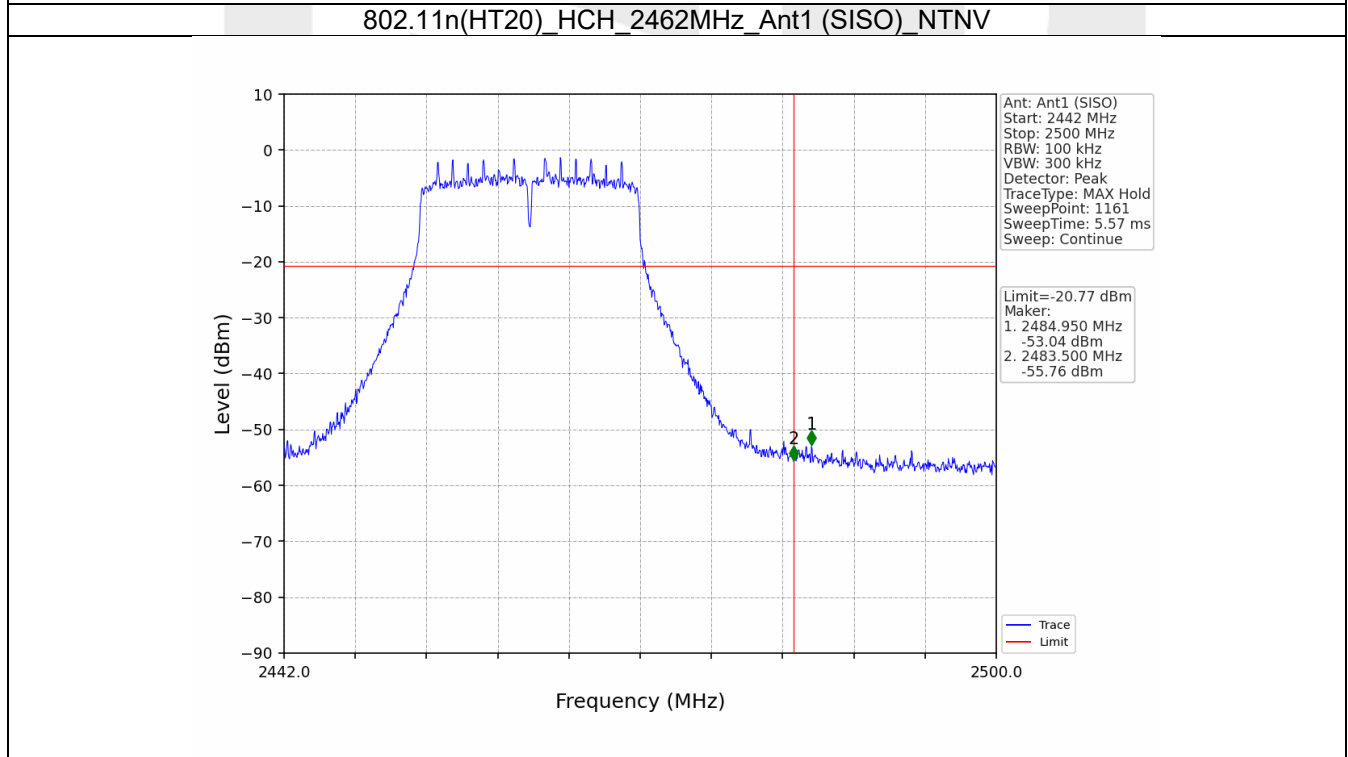
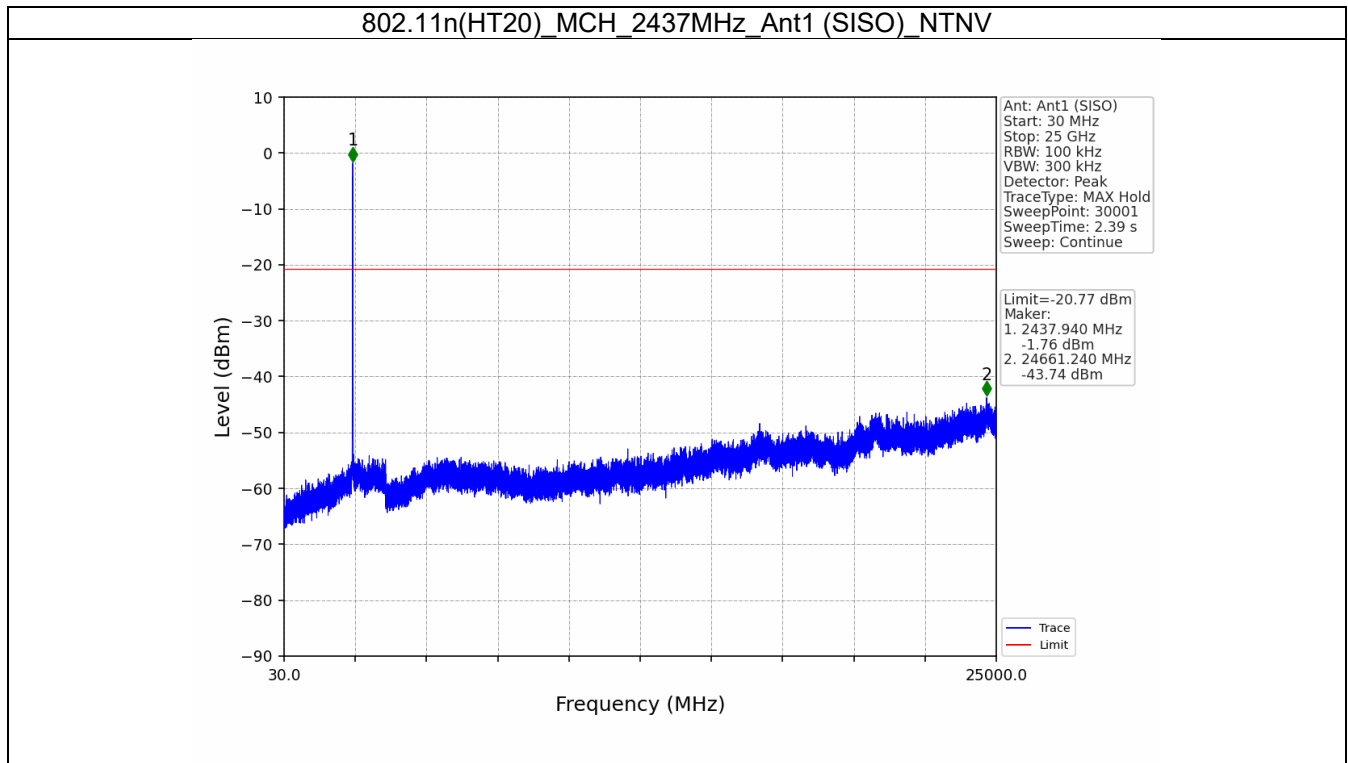


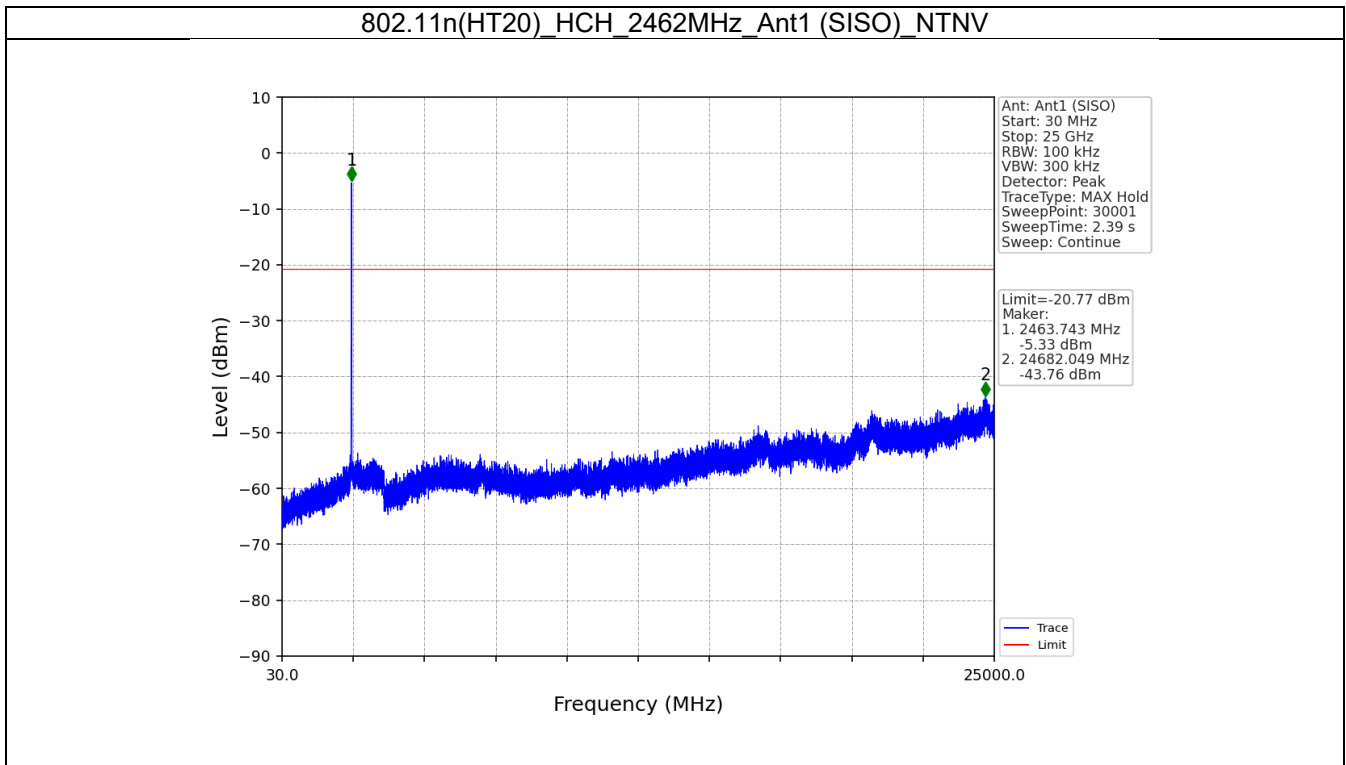












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