



## Annex for WiFi

Test Report No.: CTL2405071061-WF

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FCCID: 2AYM8-LHD2

## 1. Bandwidth

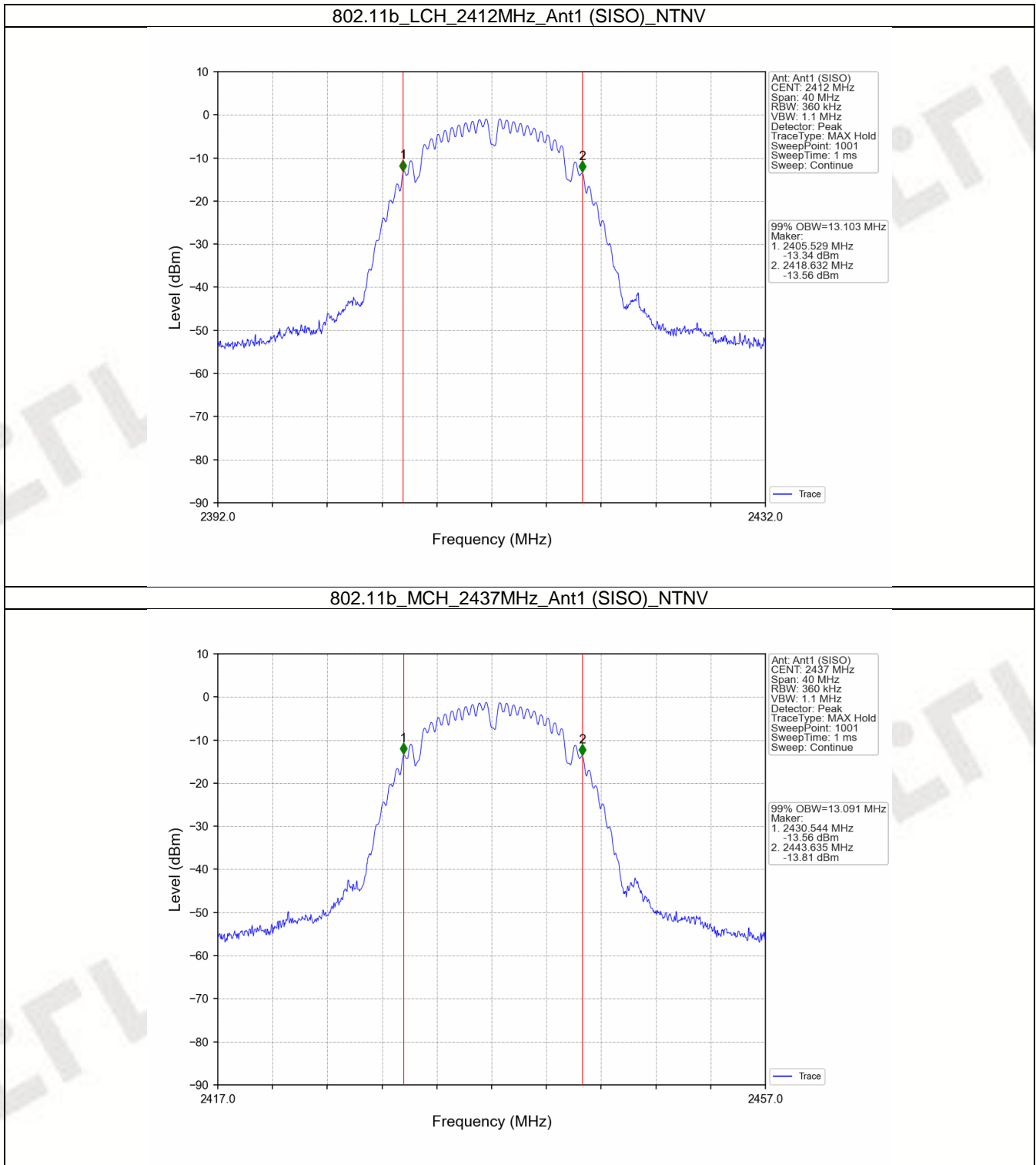
### 1.1 OBW

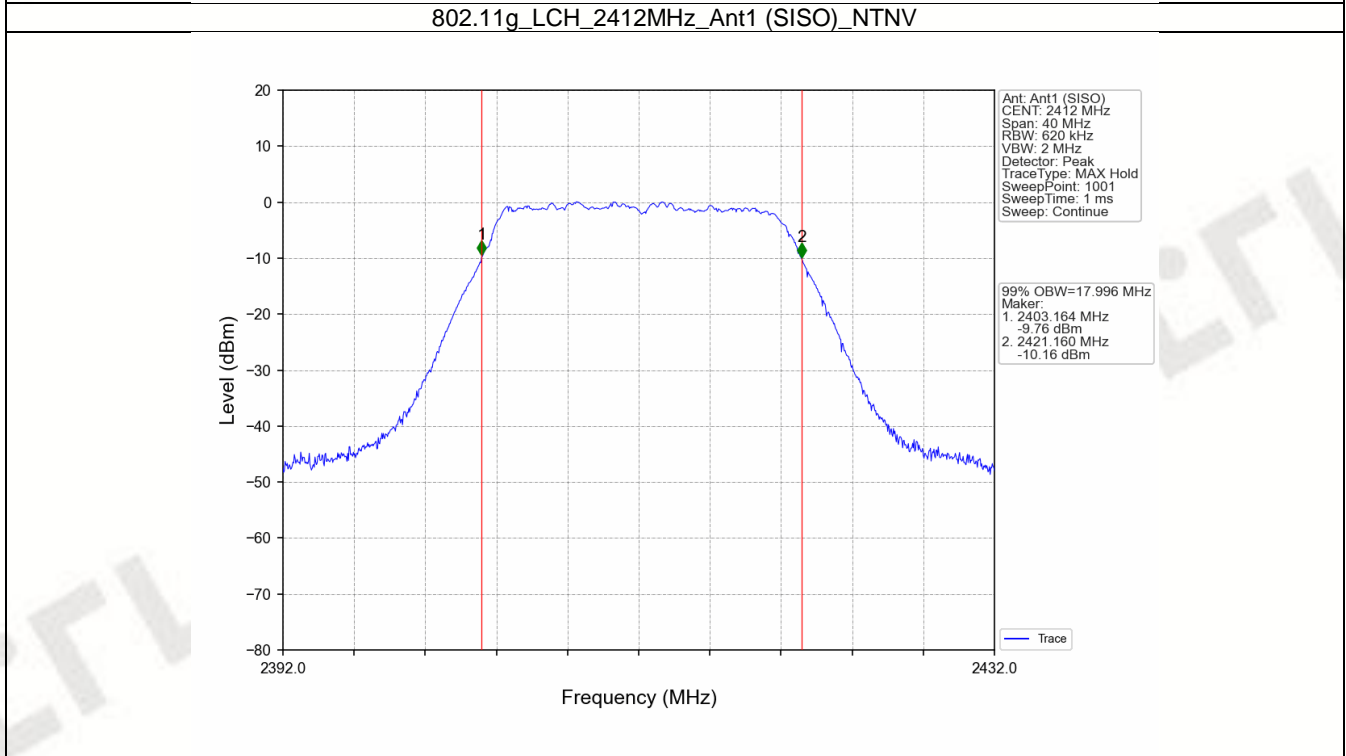
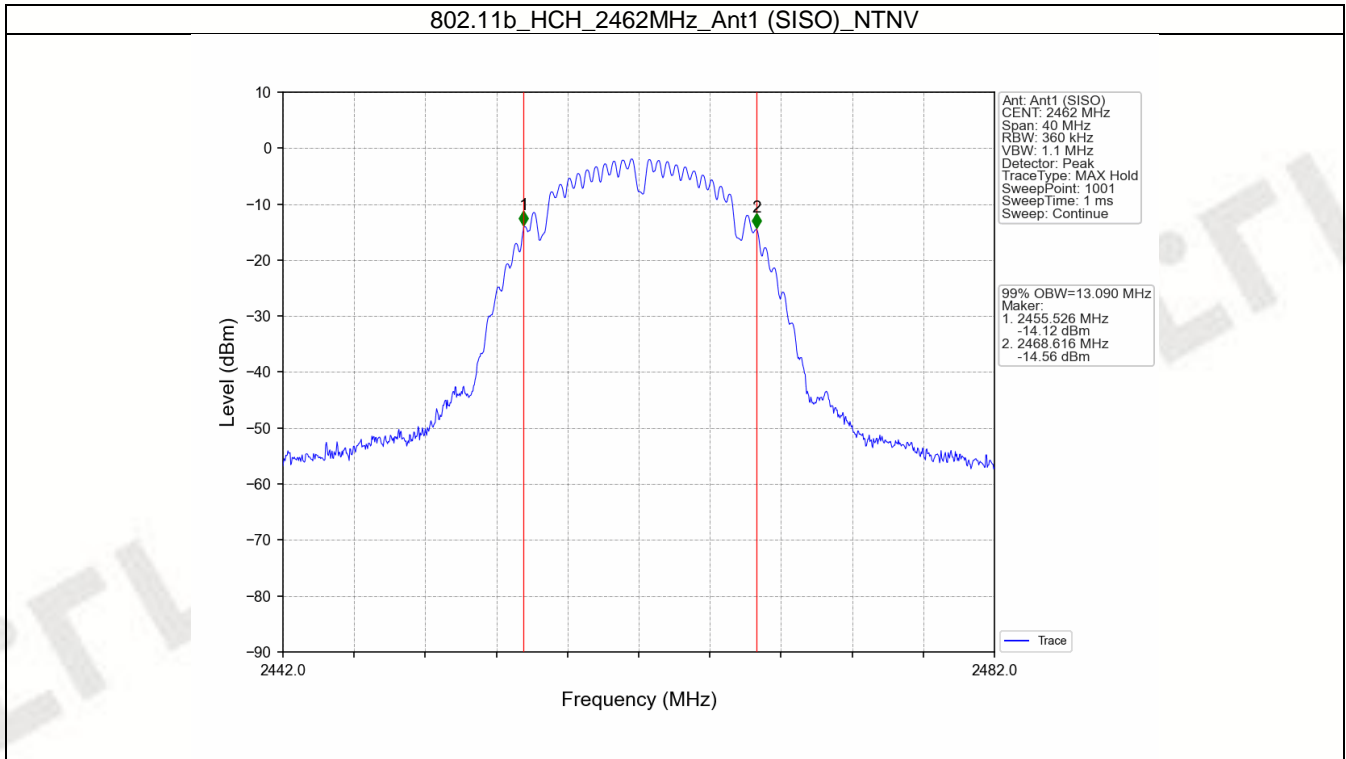
#### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.103	/	Pass
		2437	1	13.091	/	Pass
		2462	1	13.090	/	Pass
802.11g	SISO	2412	1	17.996	/	Pass
		2437	1	18.012	/	Pass
		2462	1	18.001	/	Pass
802.11n (HT20)	SISO	2412	1	18.812	/	Pass
		2437	1	18.795	/	Pass
		2462	1	18.808	/	Pass
802.11n (HT40)	SISO	2422	1	36.900	/	Pass
		2437	1	36.813	/	Pass
		2452	1	36.795	/	Pass

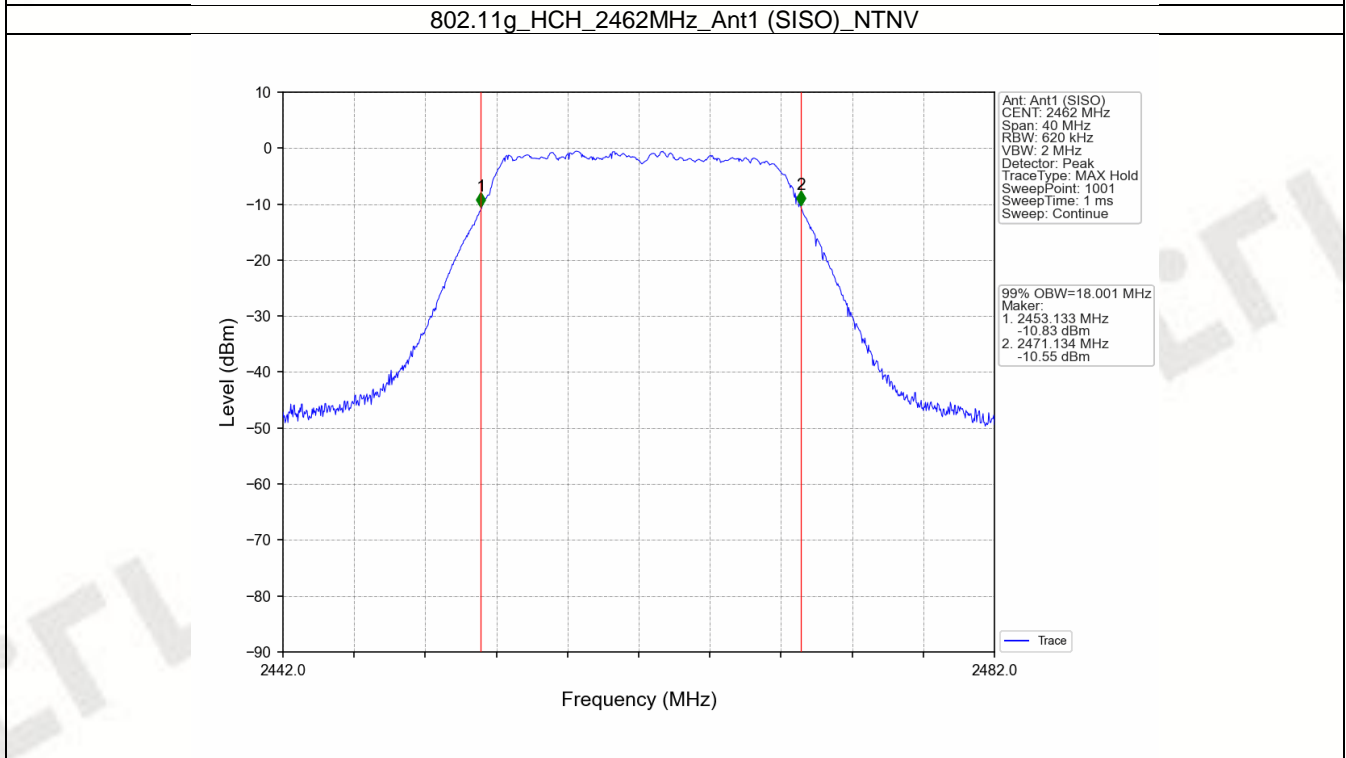
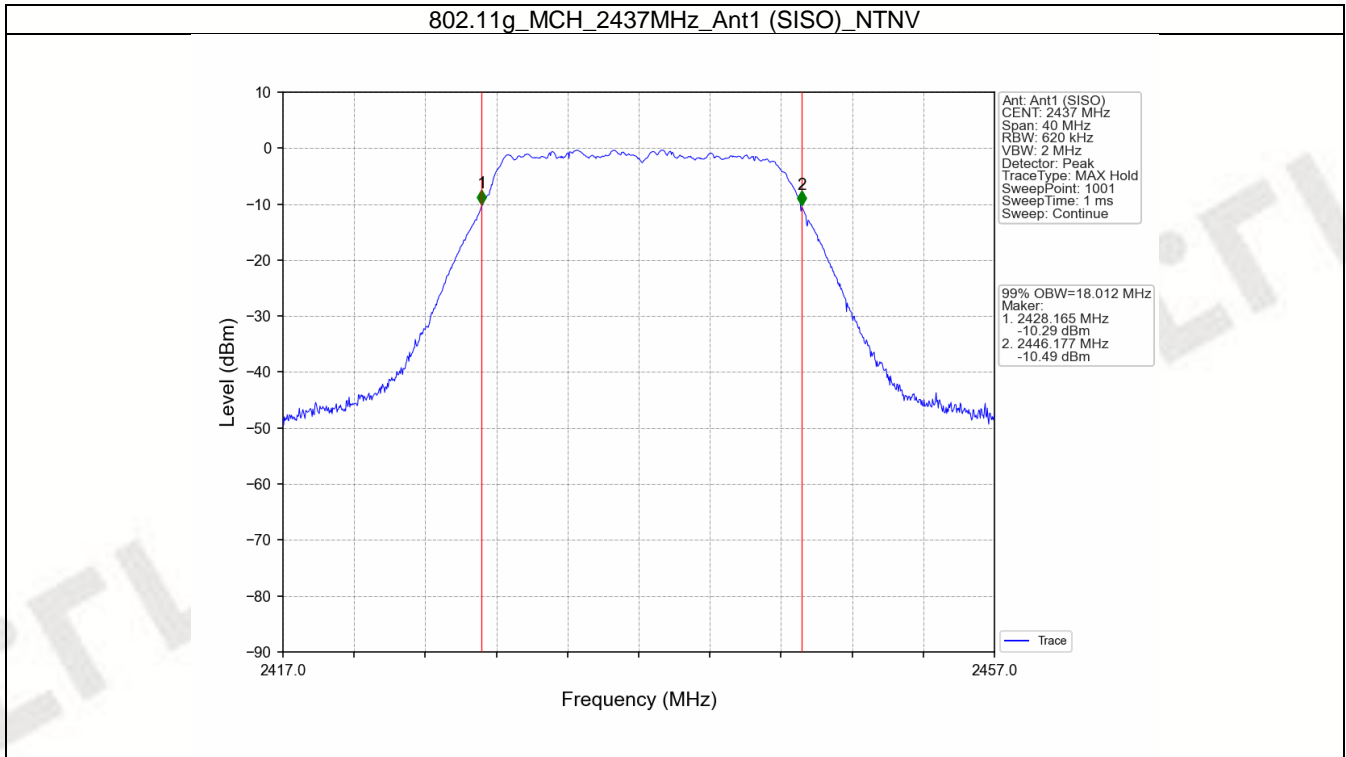
FCCID: 2AYM8-LHD2

1.1.2 Test Graph

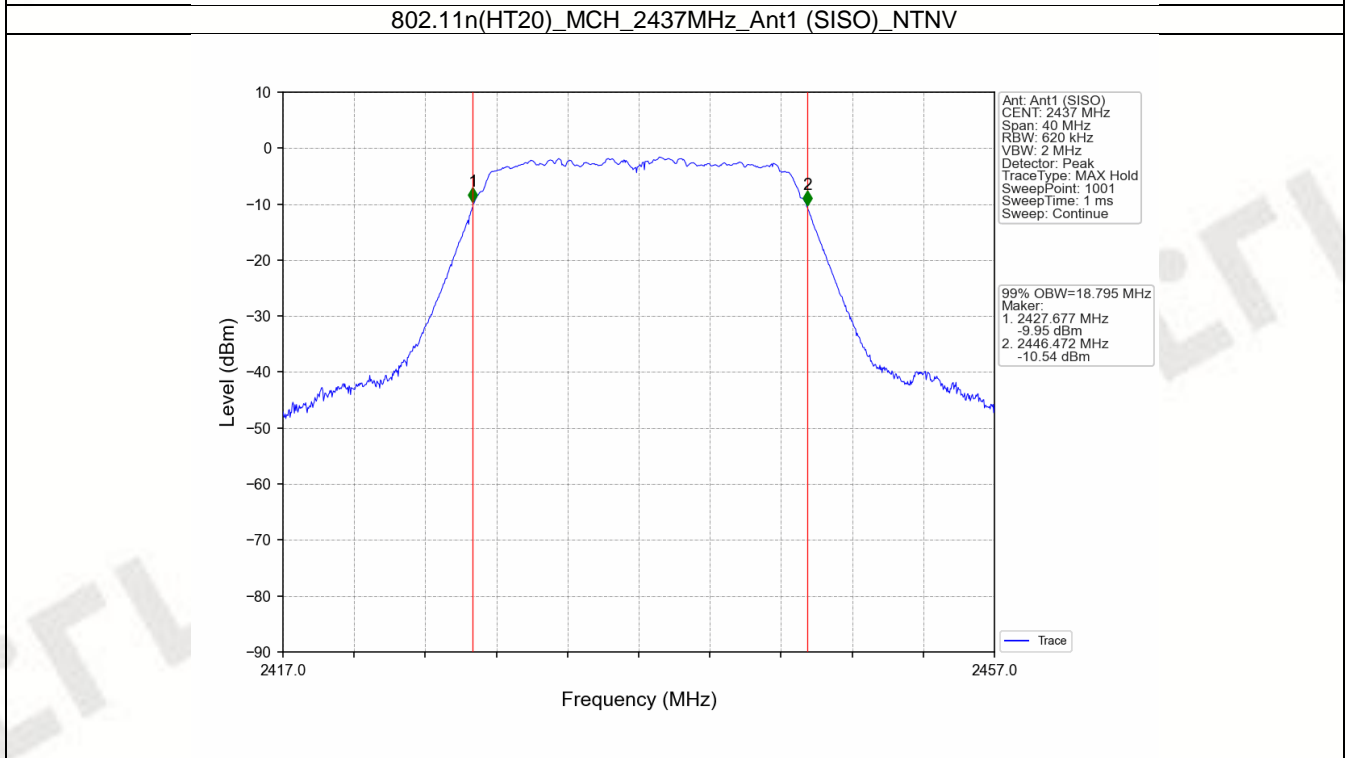
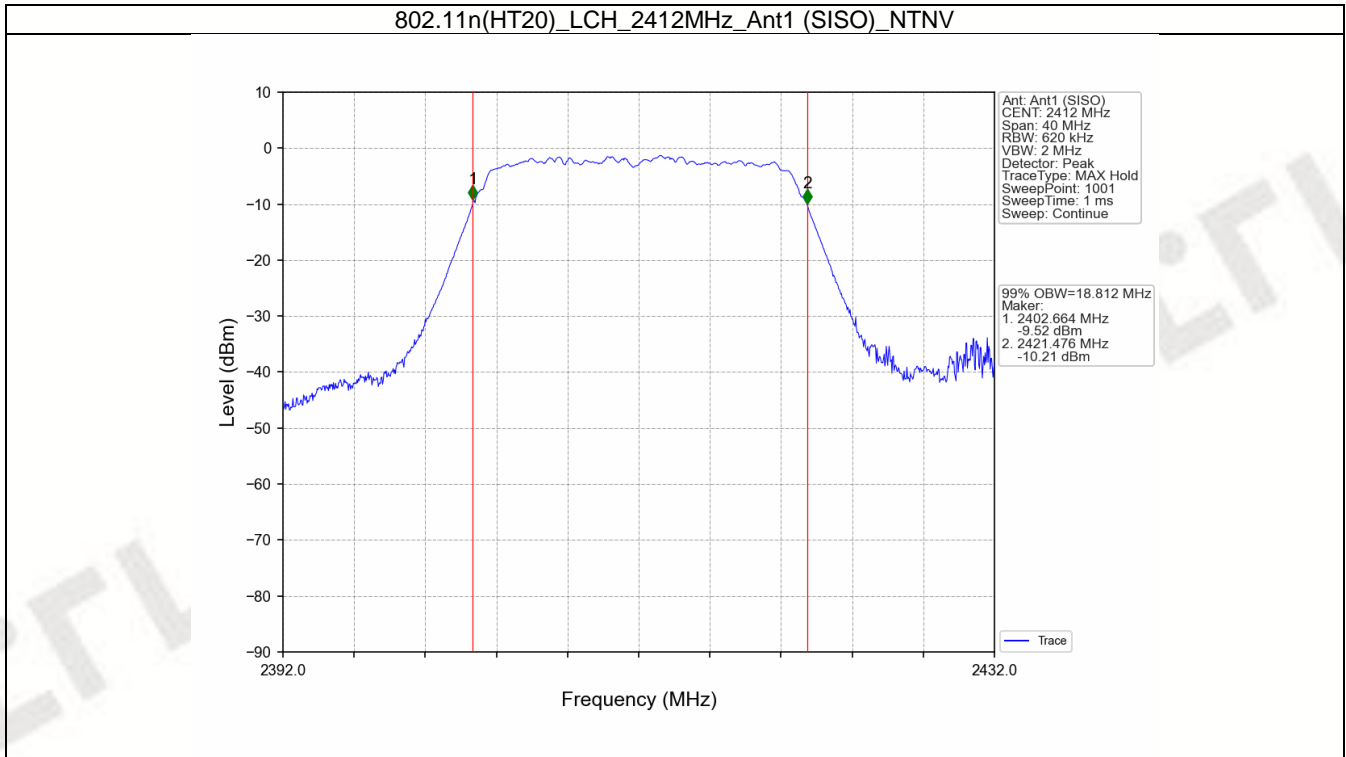


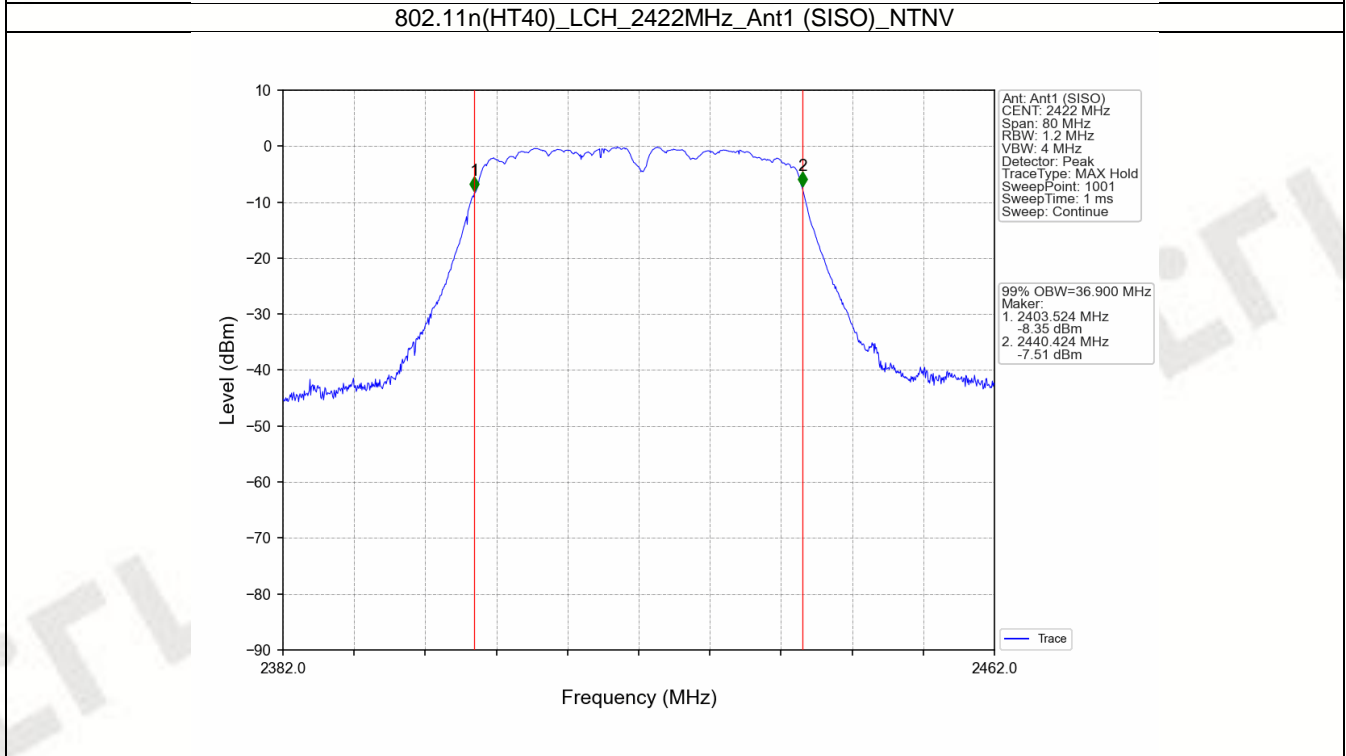
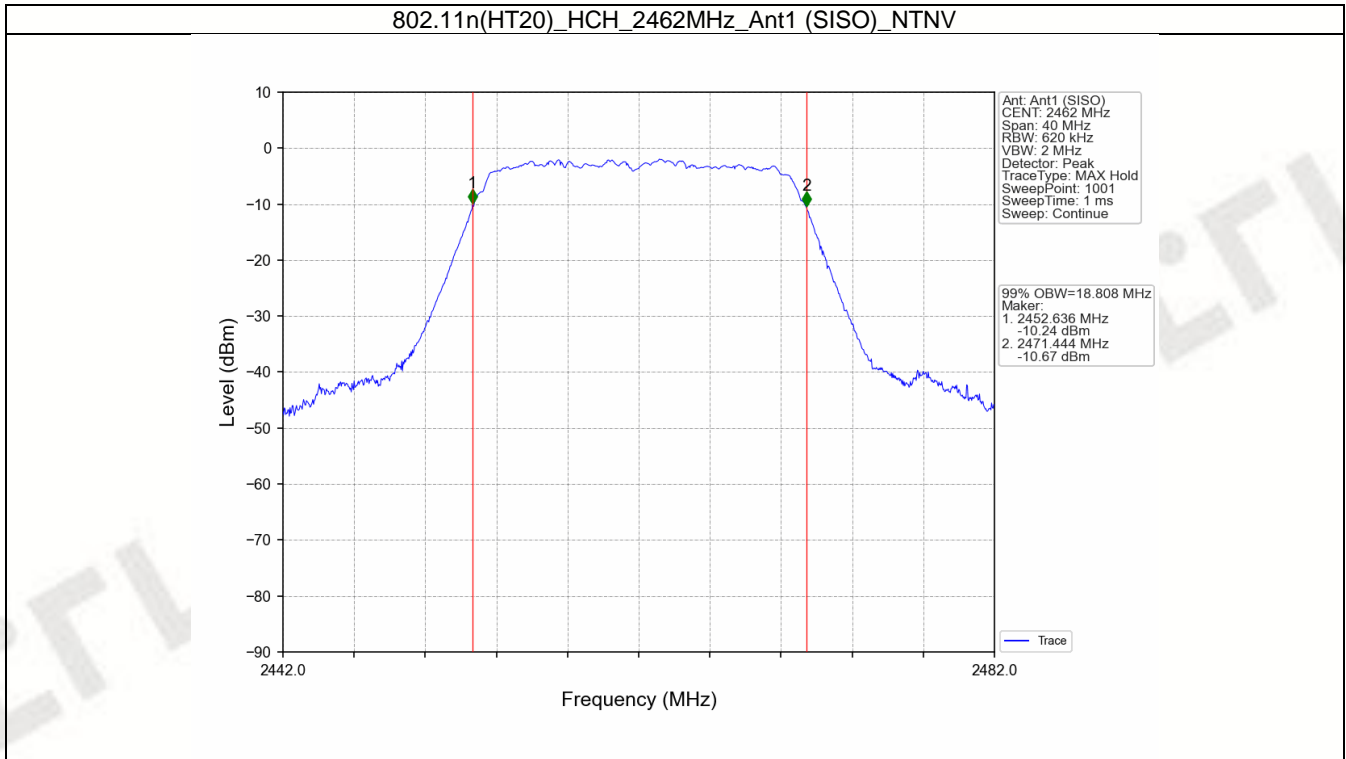


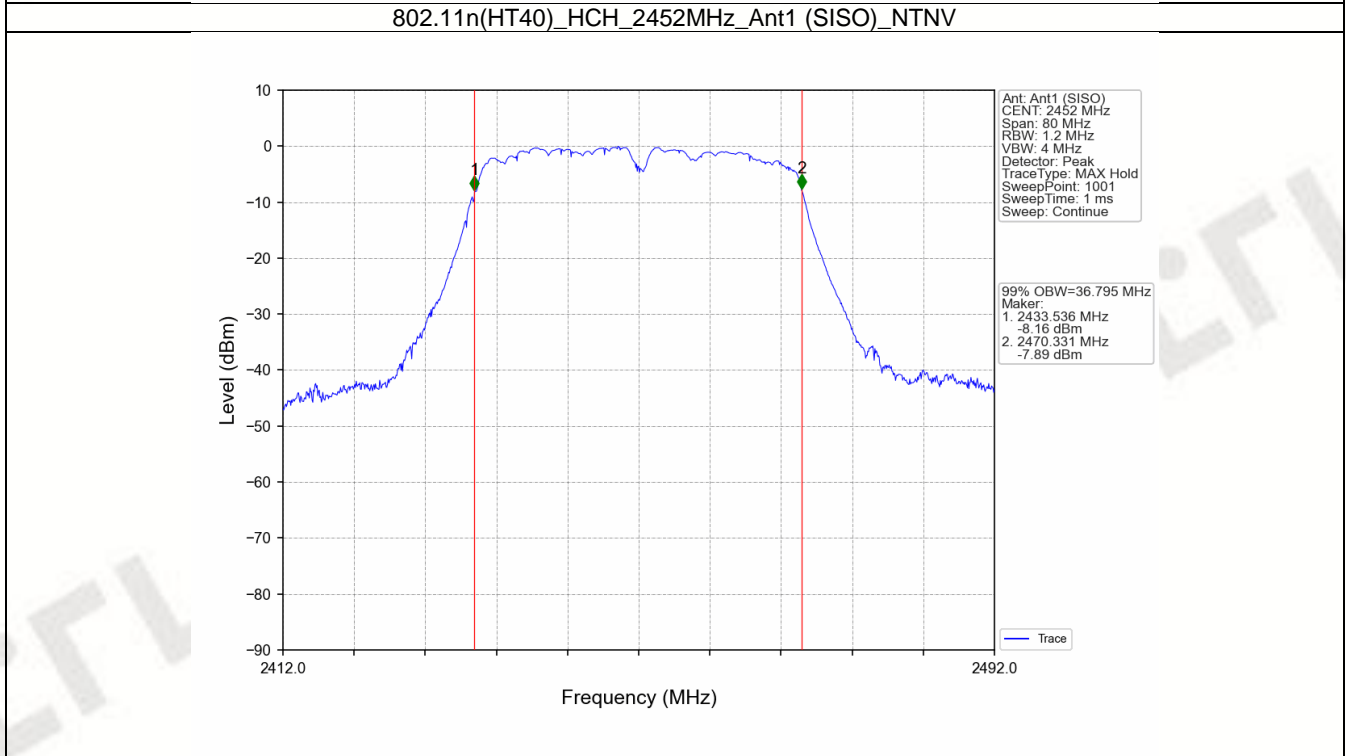
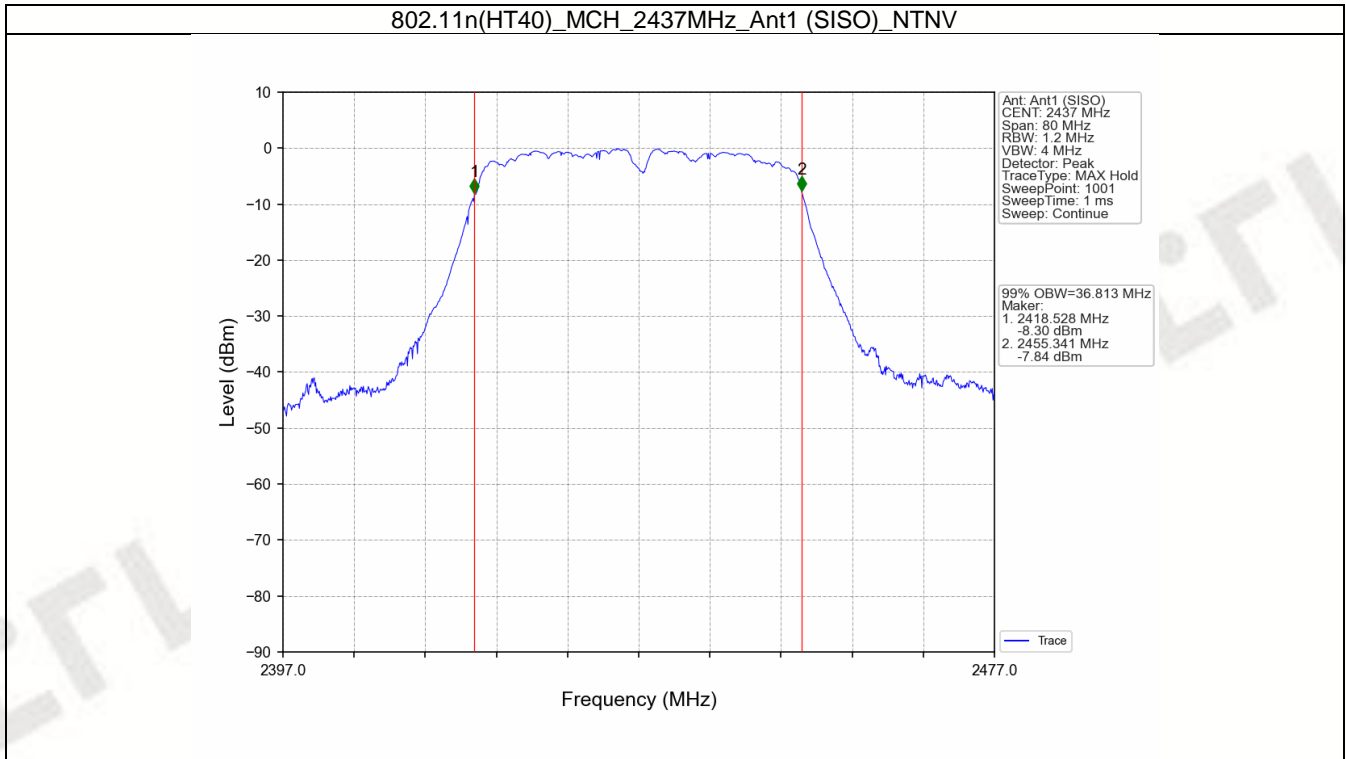
FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2









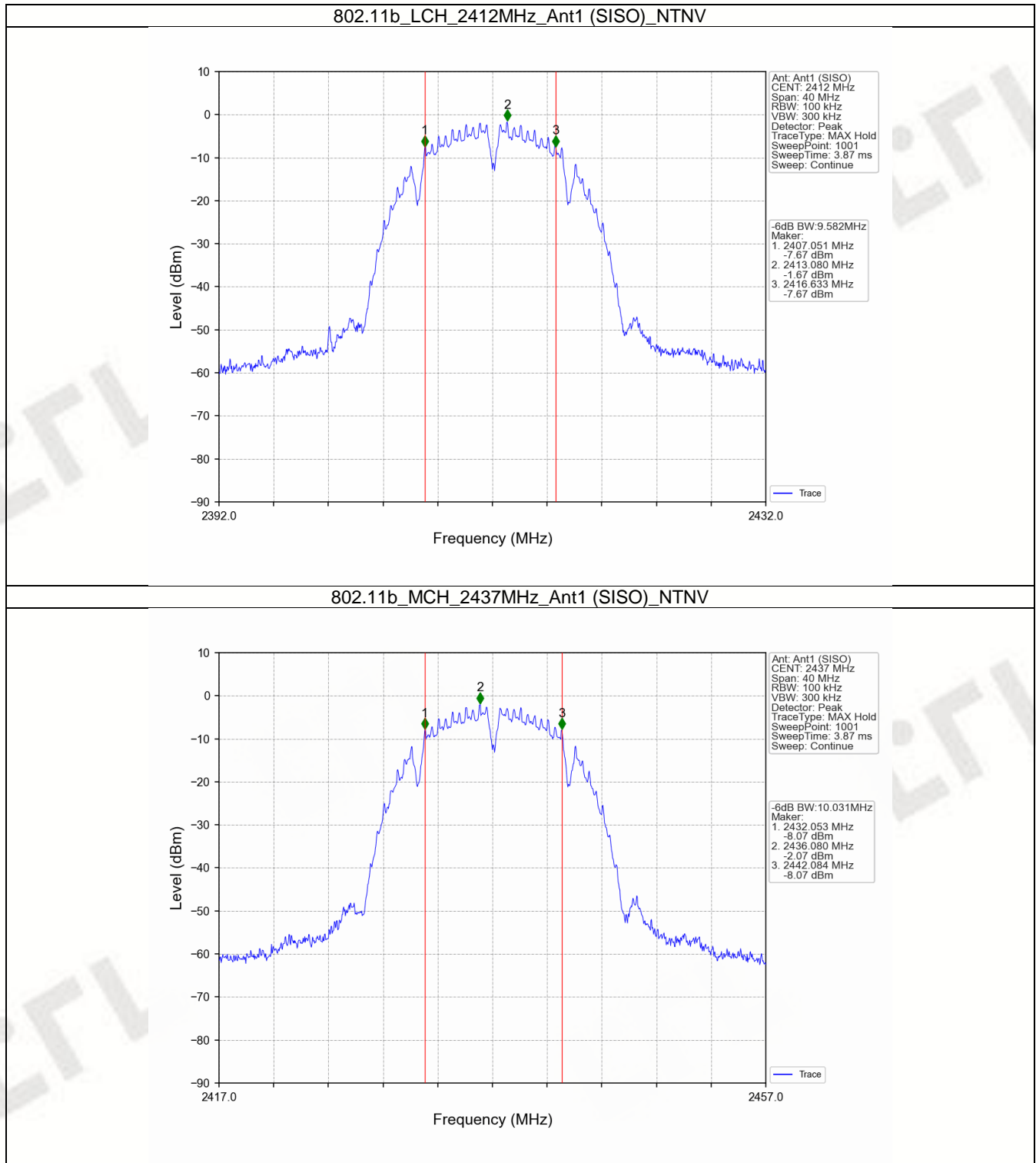
FCCID: 2AYM8-LHD2

**1.2 6dB BW****1.2.1 Test Result**

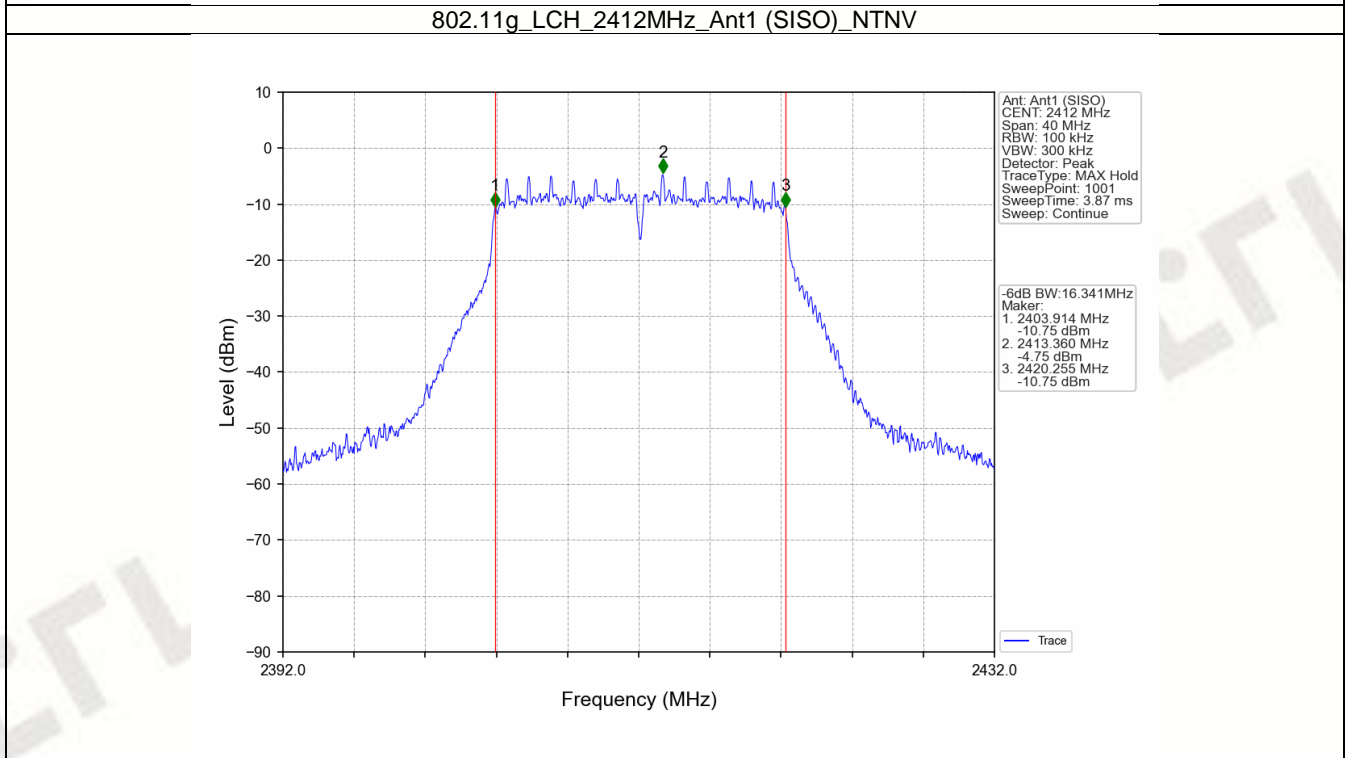
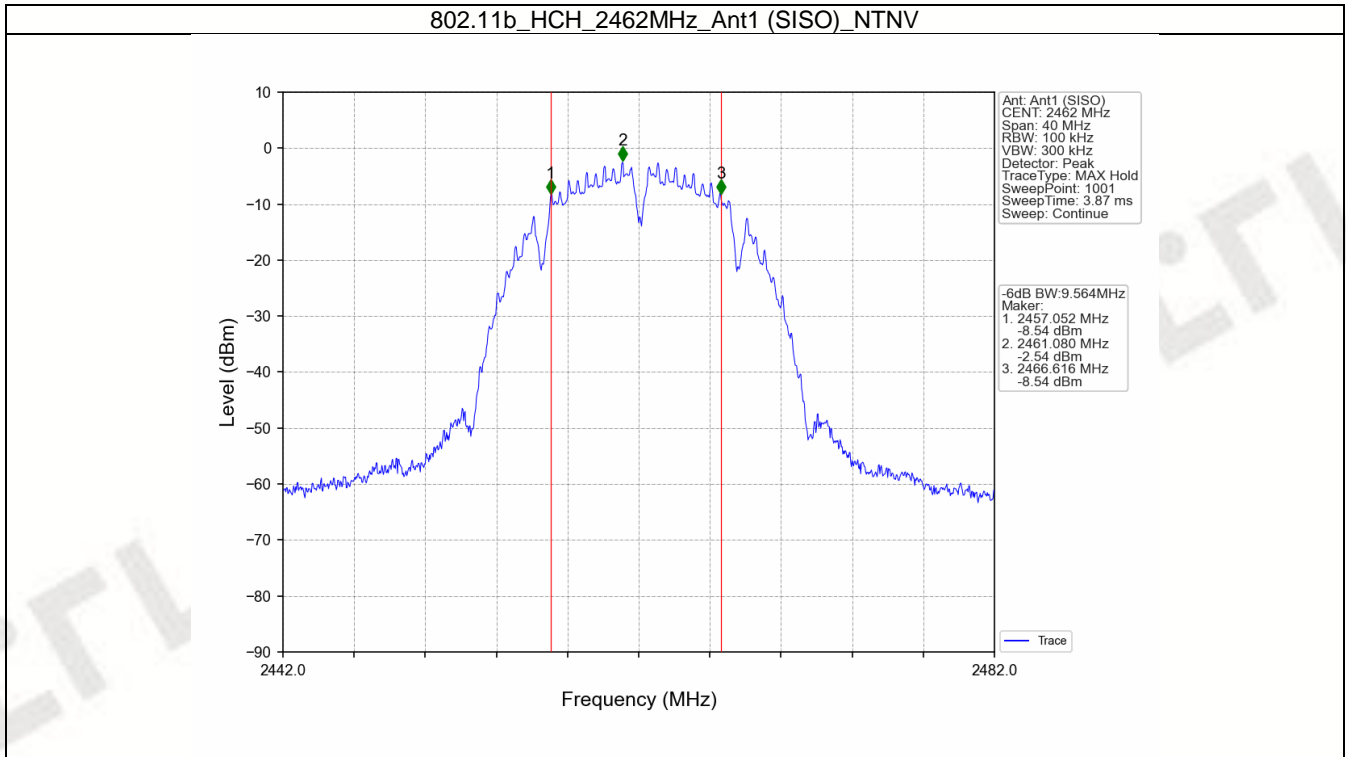
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.582	>=0.5	Pass
		2437	1	10.031	>=0.5	Pass
		2462	1	9.564	>=0.5	Pass
802.11g	SISO	2412	1	16.341	>=0.5	Pass
		2437	1	16.334	>=0.5	Pass
		2462	1	16.348	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.168	>=0.5	Pass
		2437	1	17.549	>=0.5	Pass
		2462	1	16.967	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.492	>=0.5	Pass
		2437	1	35.487	>=0.5	Pass
		2452	1	35.367	>=0.5	Pass

FCCID: 2AYM8-LHD2

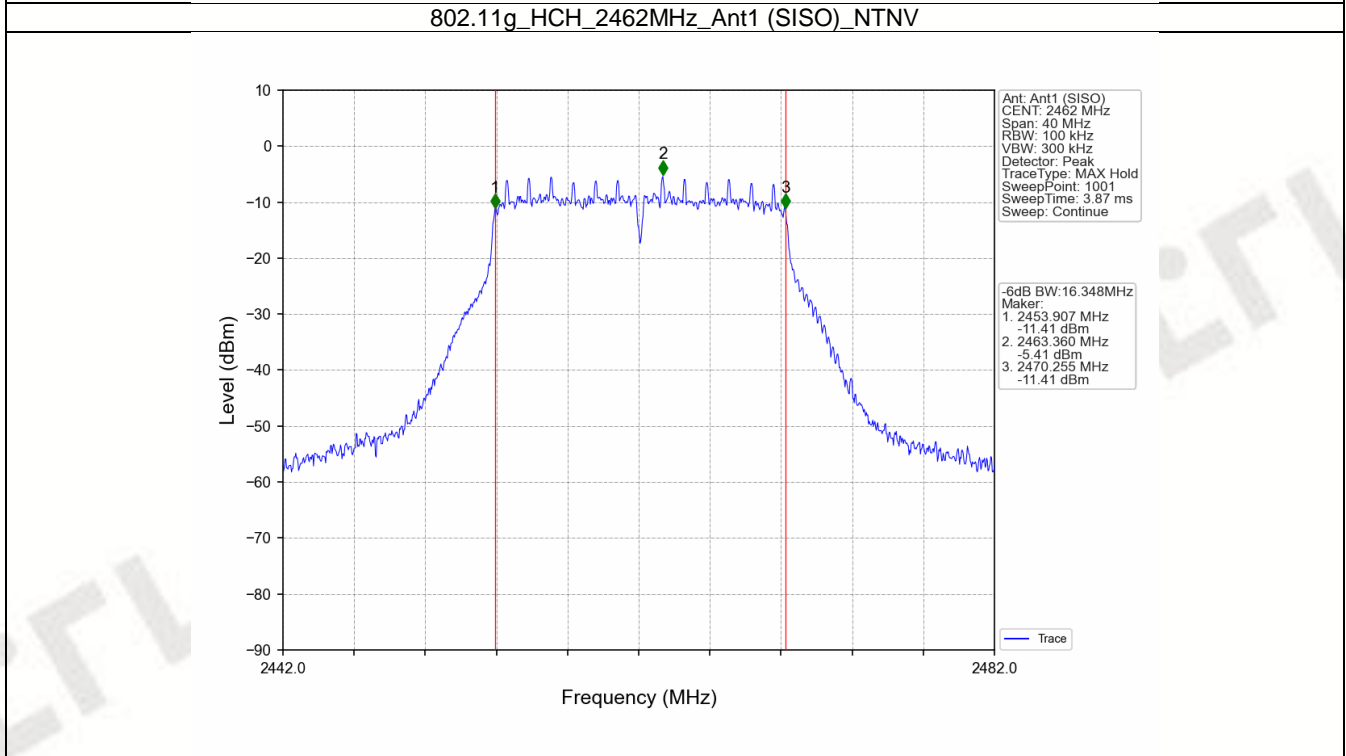
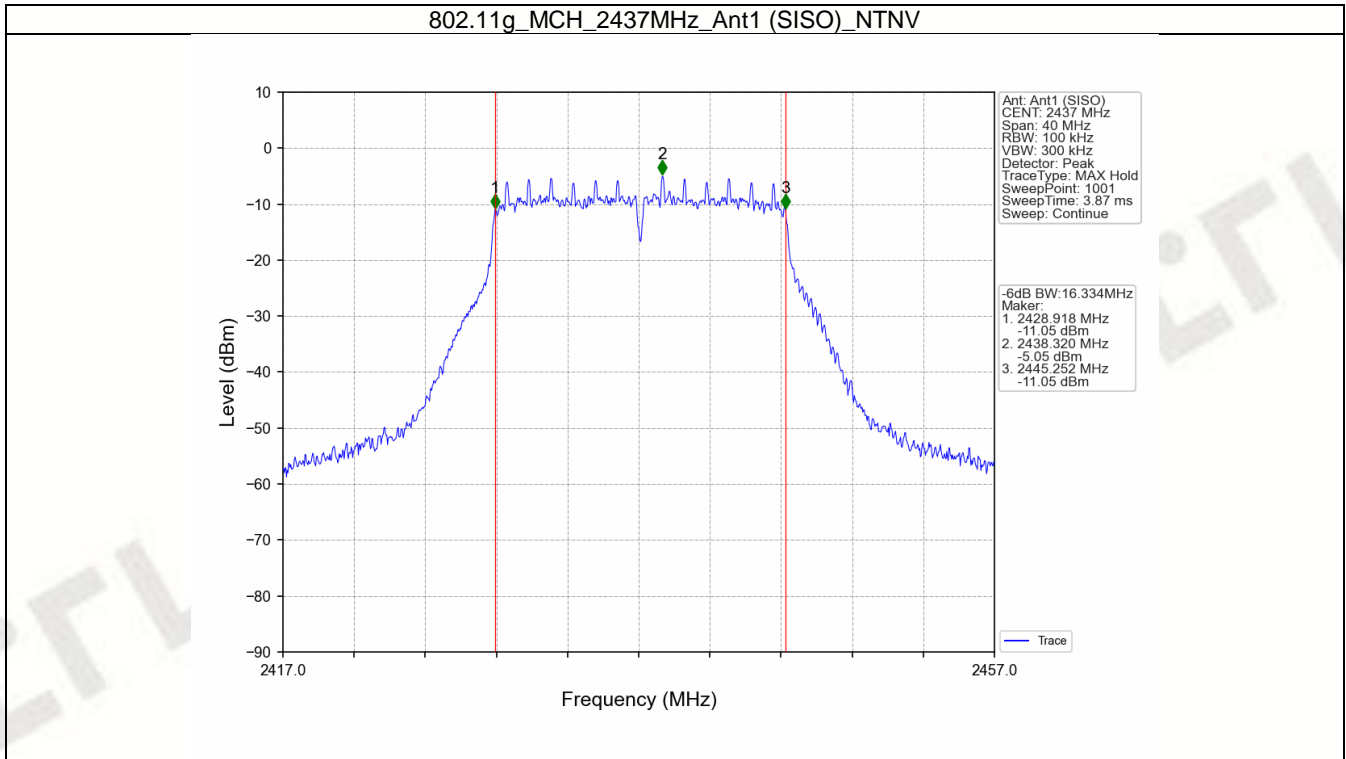
### 1.2.2 Test Graph



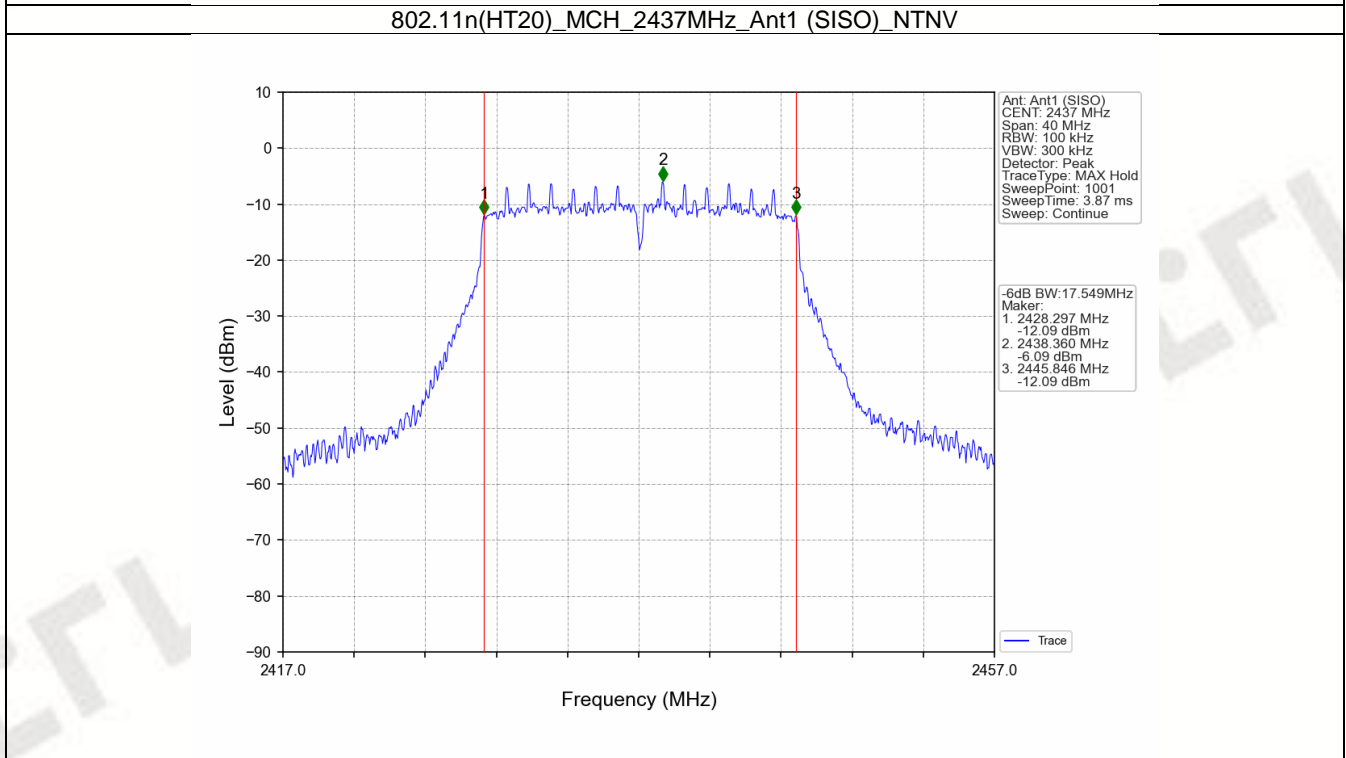
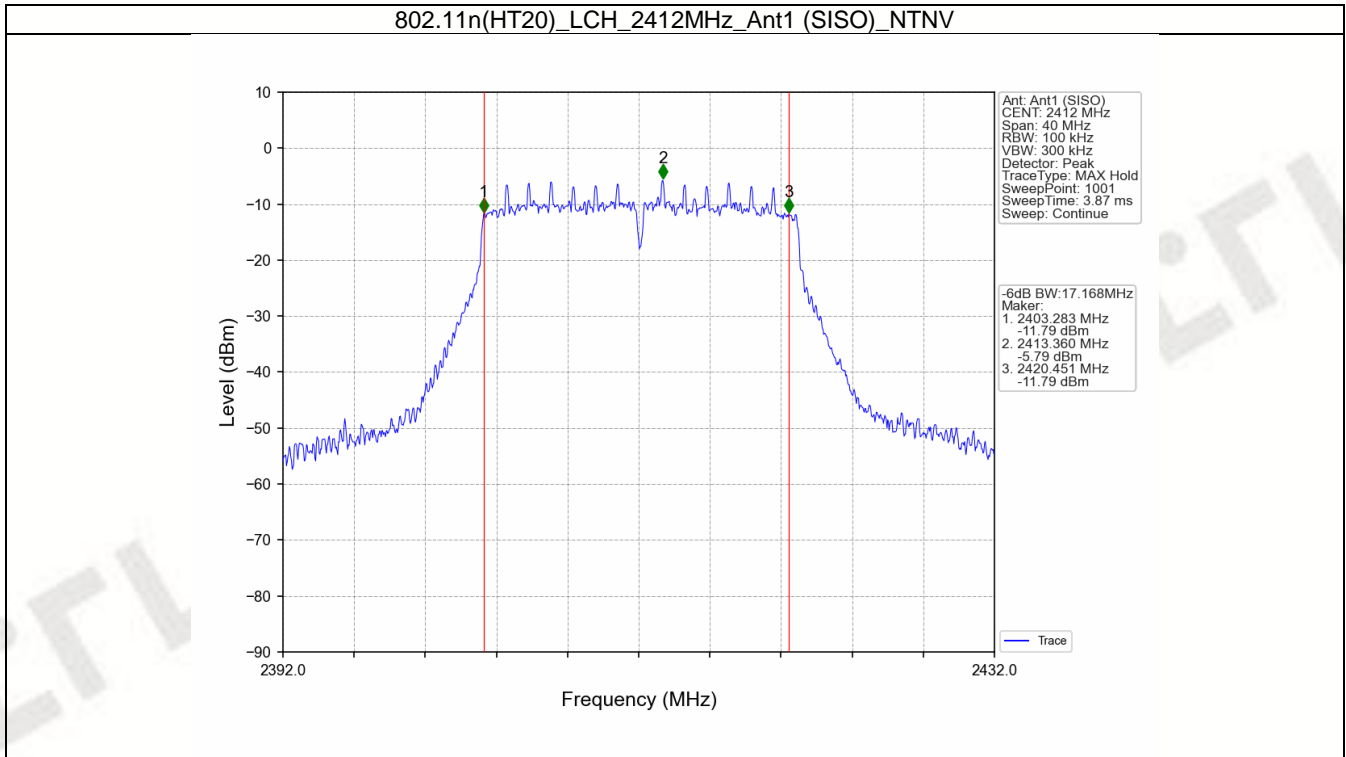
FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2

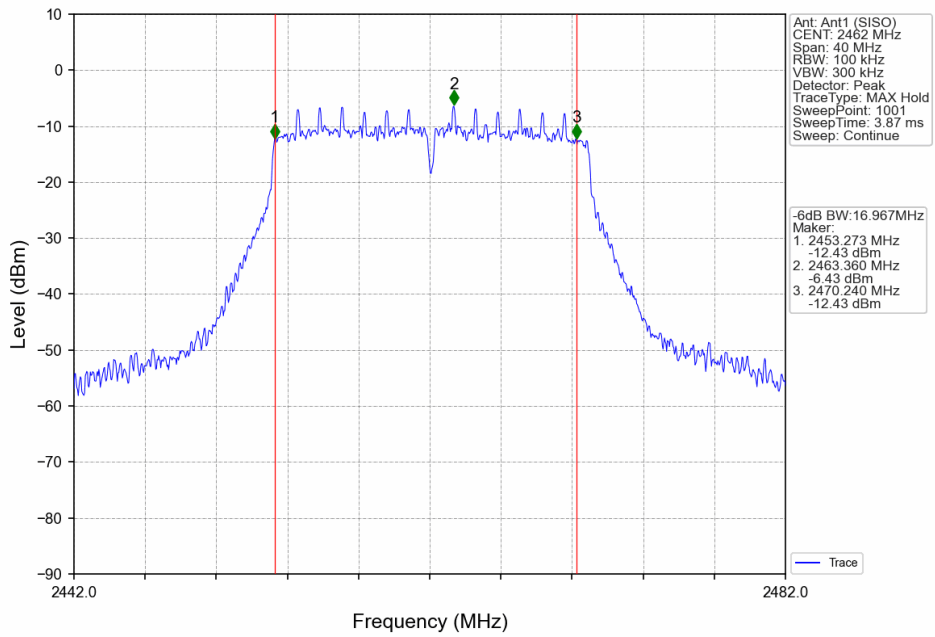


FCCID: 2AYM8-LHD2

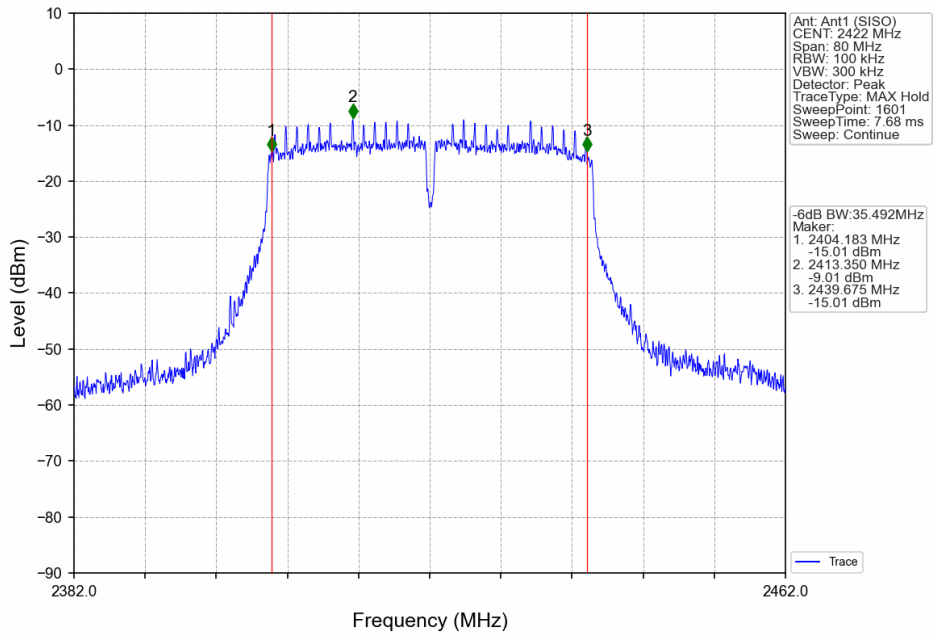


FCCID: 2AYM8-LHD2

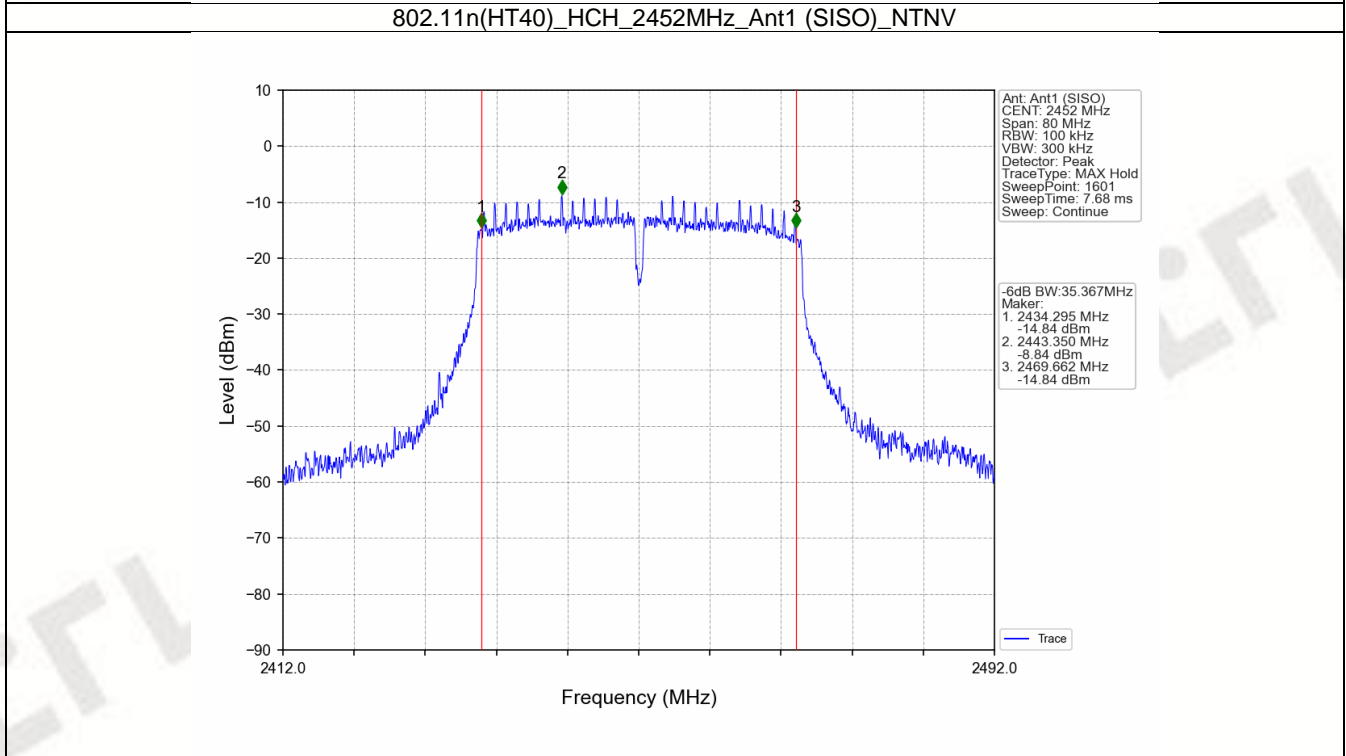
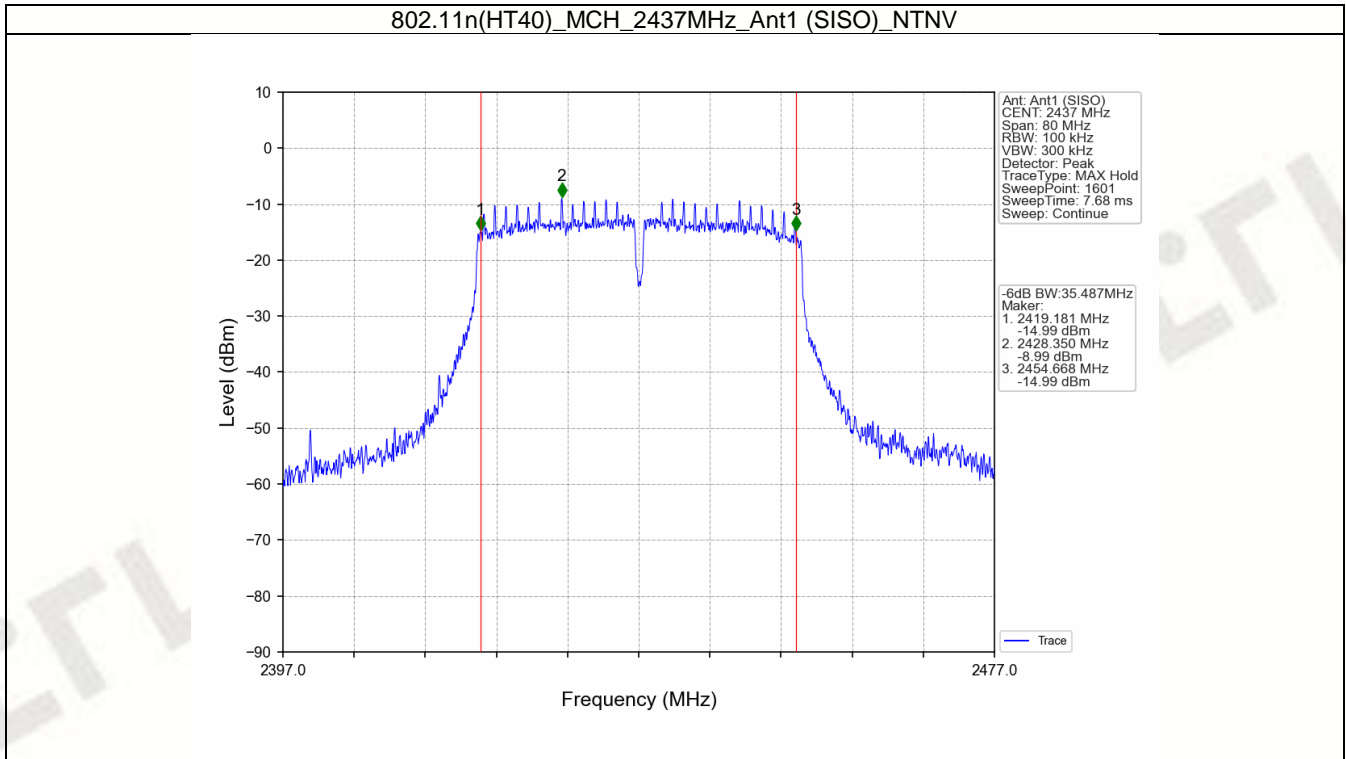
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2

## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

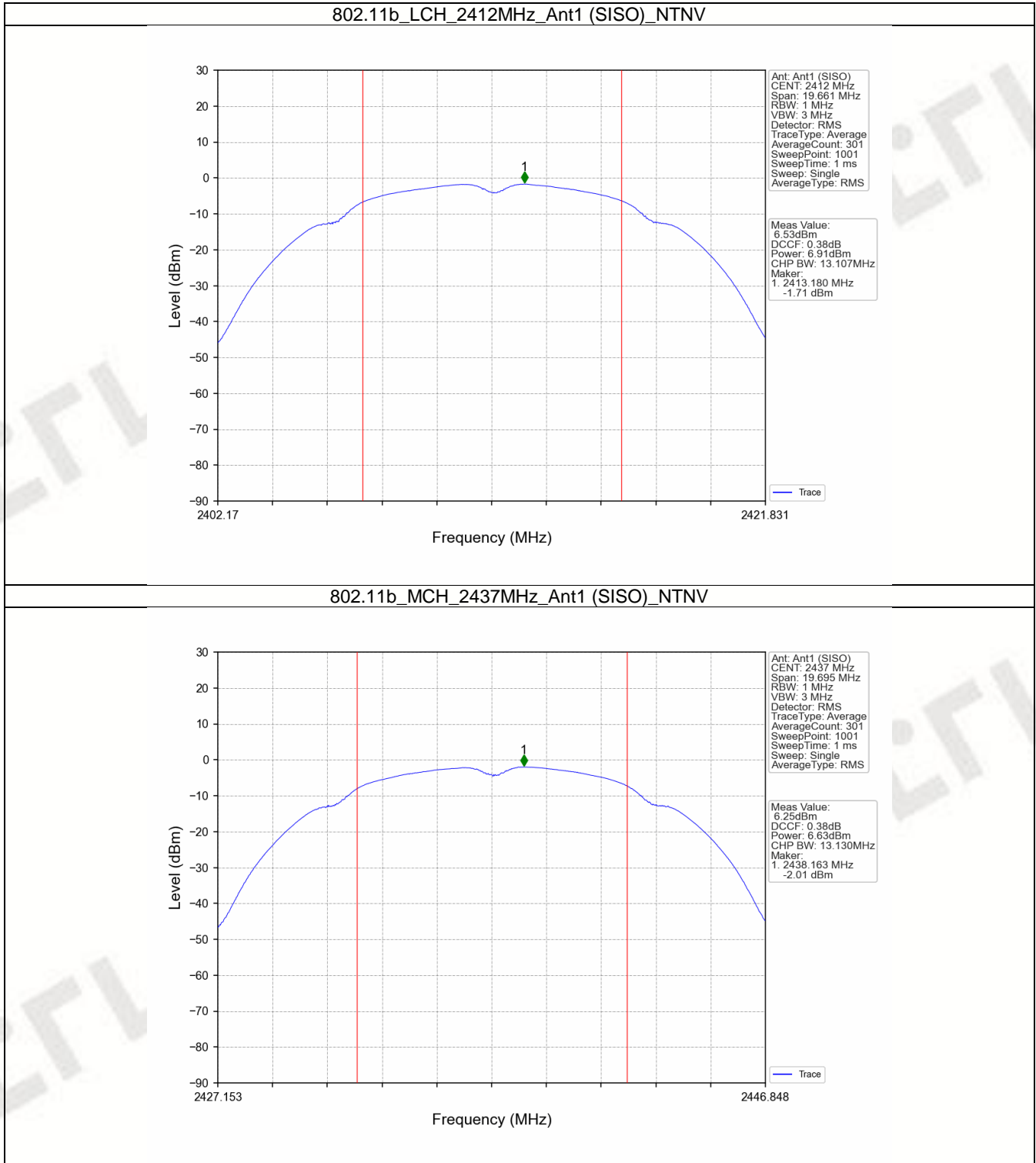
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	6.91	<=30	Pass
		2437	6.63	<=30	Pass
		2462	6.51	<=30	Pass
802.11g	SISO	2412	6.23	<=30	Pass
		2437	6.02	<=30	Pass
		2462	5.93	<=30	Pass
802.11n (HT20)	SISO	2412	5.06	<=30	Pass
		2437	4.96	<=30	Pass
		2462	4.78	<=30	Pass
802.11n (HT40)	SISO	2422	4.84	<=30	Pass
		2437	4.81	<=30	Pass
		2452	4.77	<=30	Pass

Note1: Antenna Gain: Ant1: -0.52dBi;

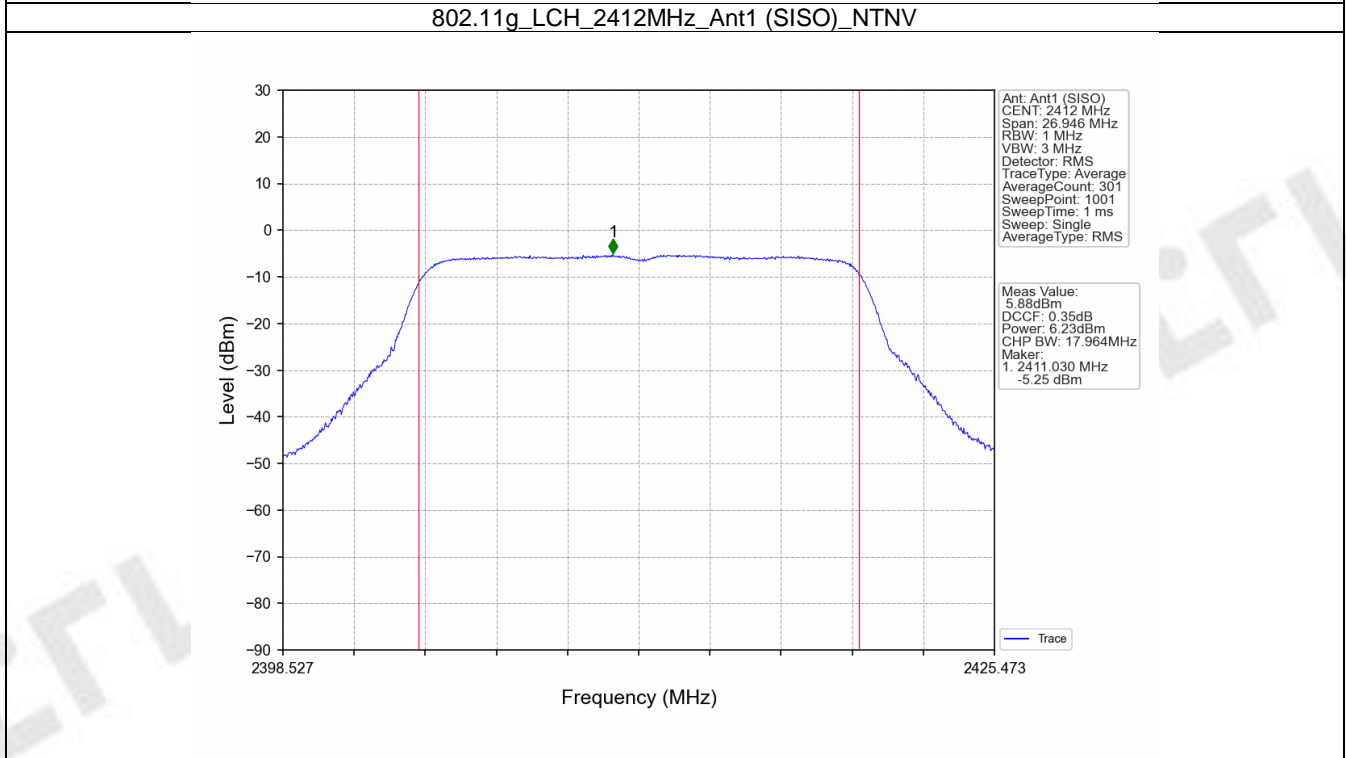
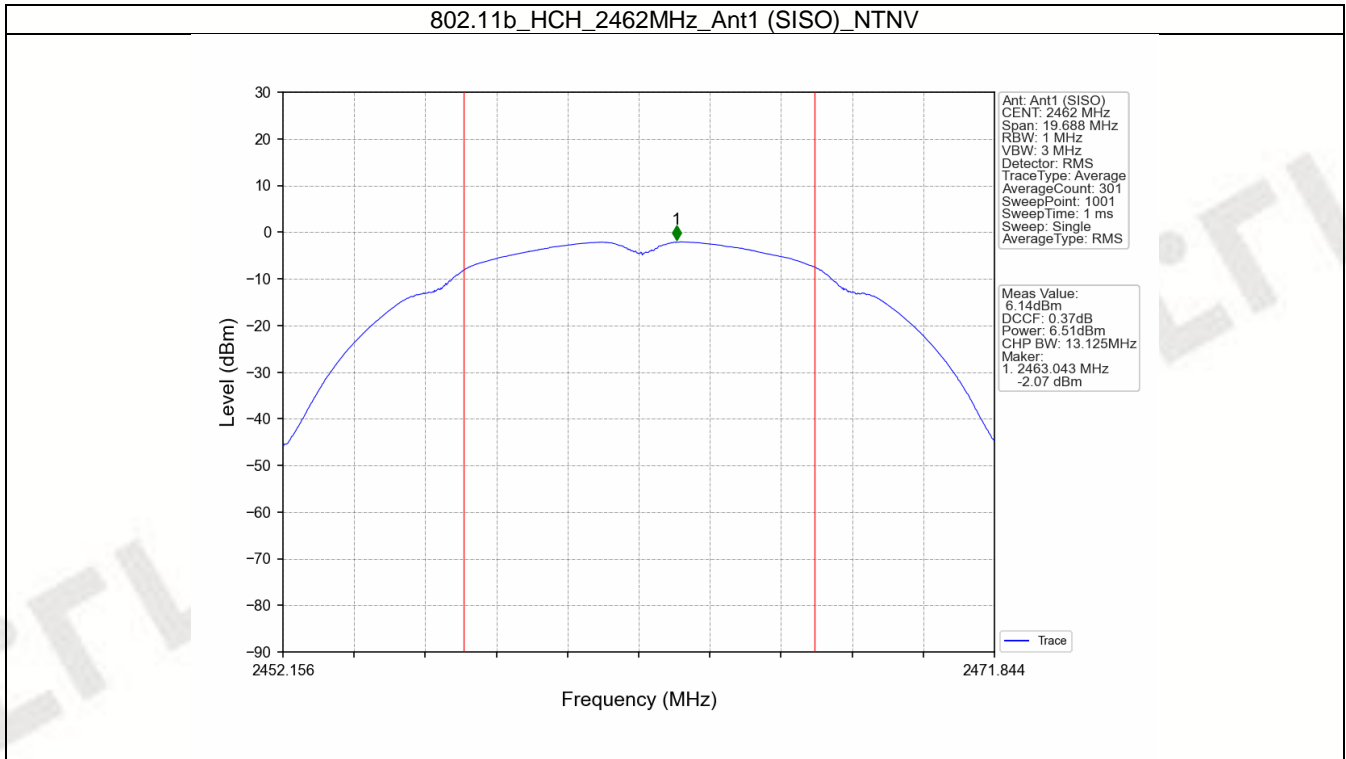


FCCID: 2AYM8-LHD2

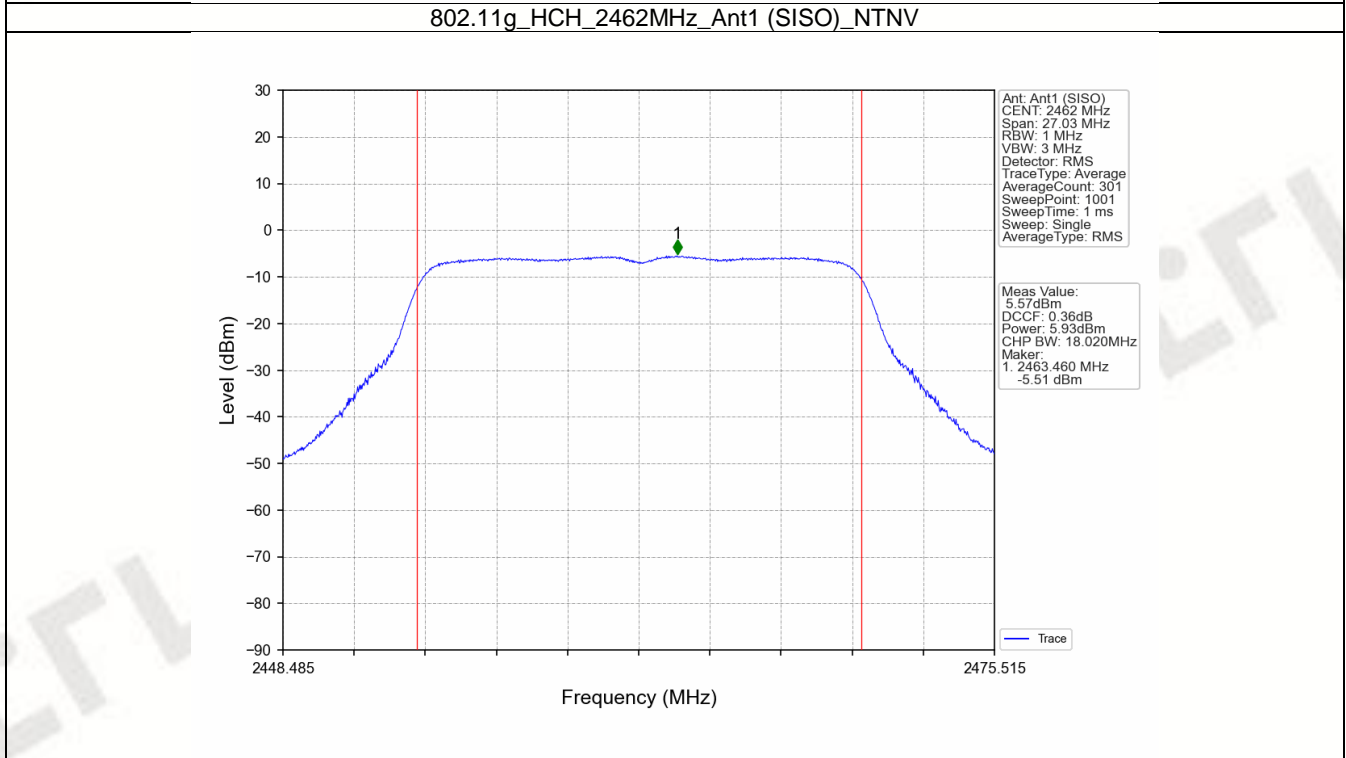
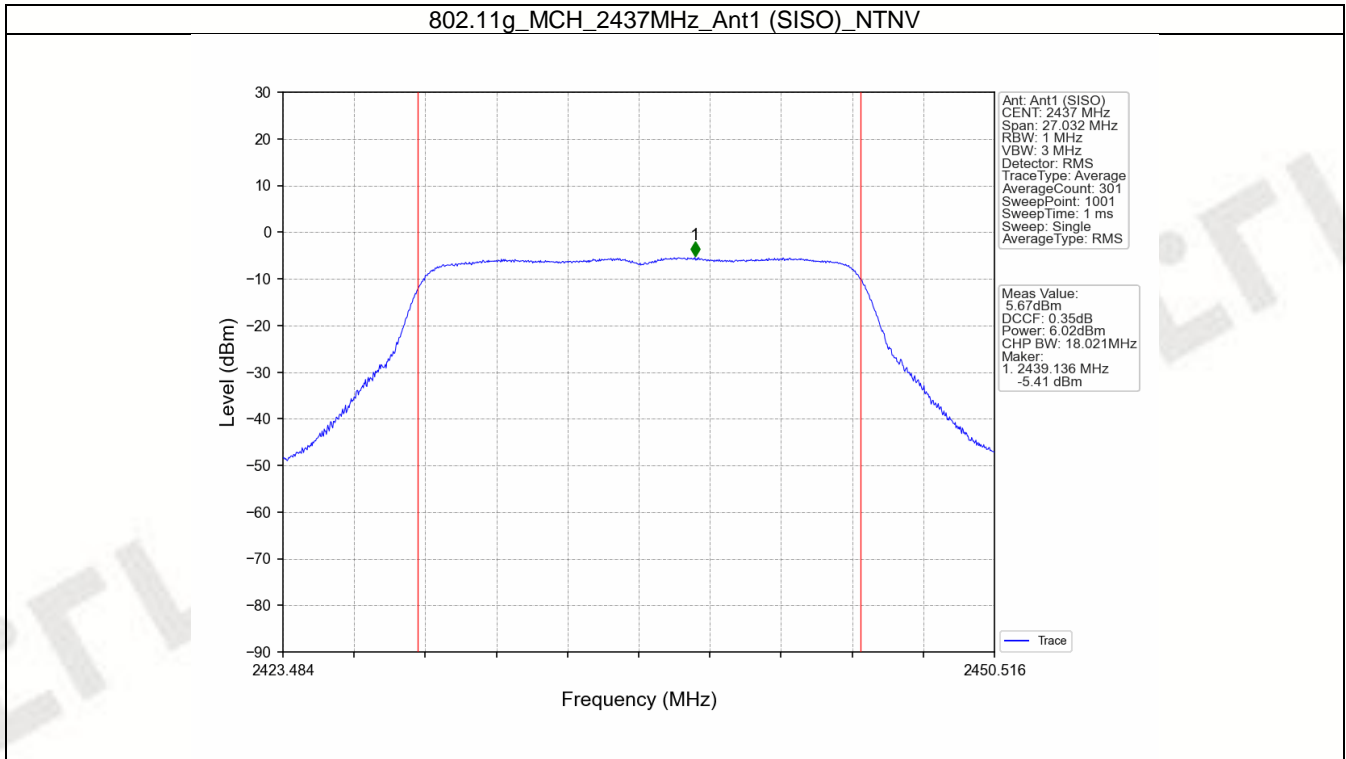
2.1.2 Test Graph



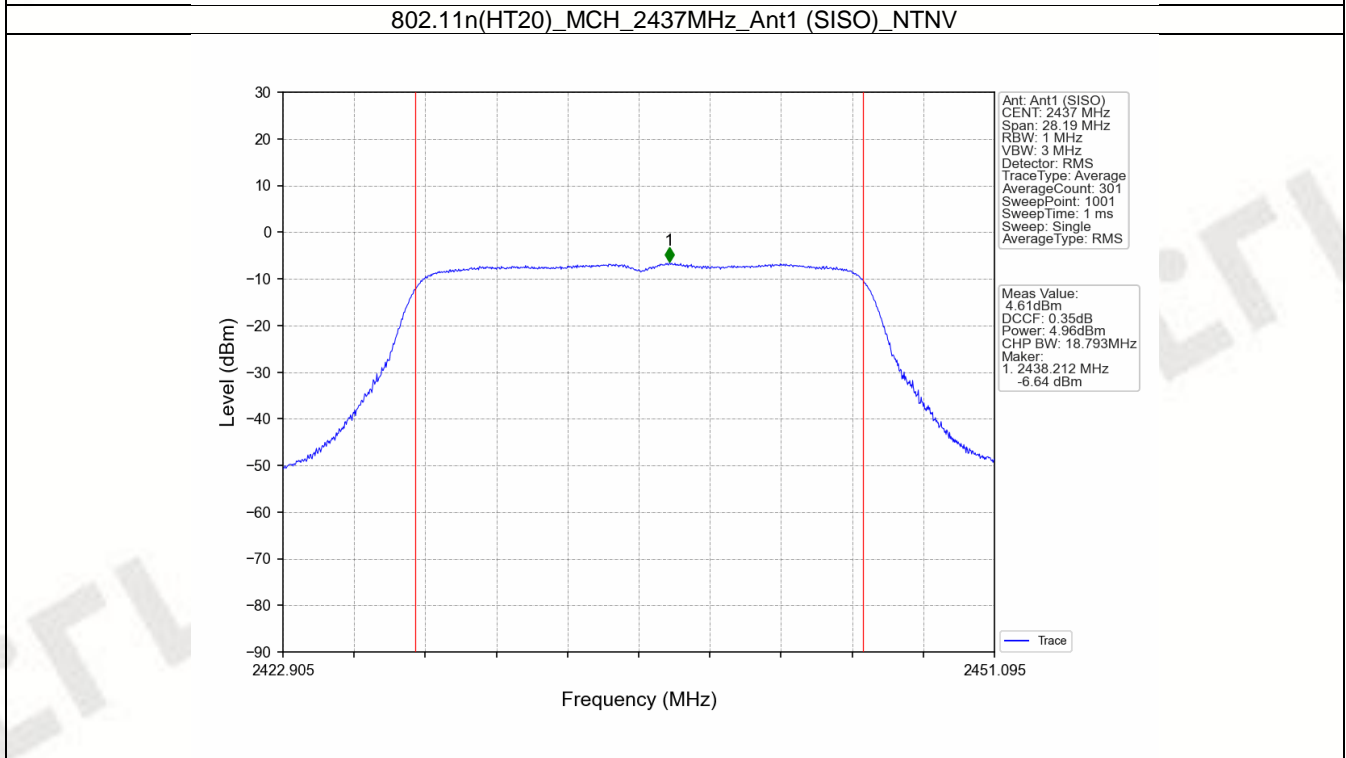
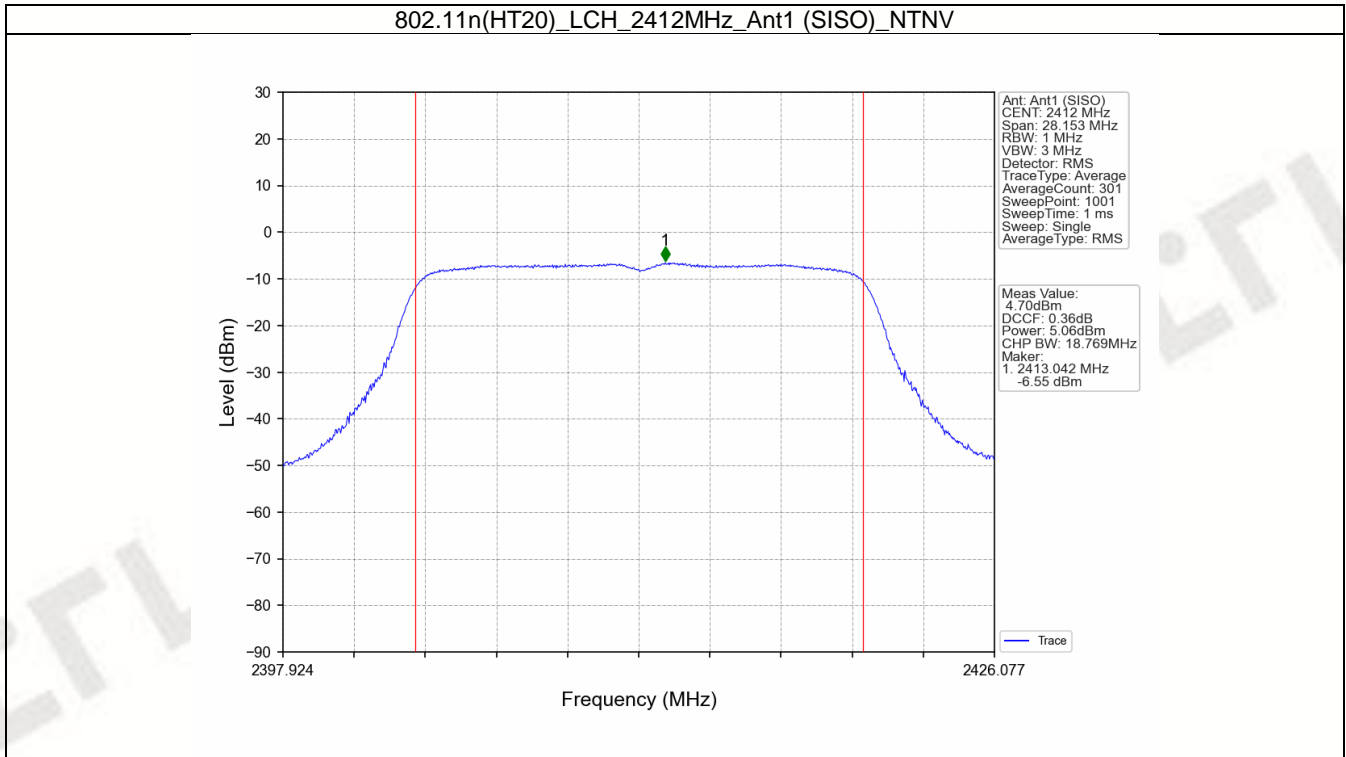
FCCID: 2AYM8-LHD2



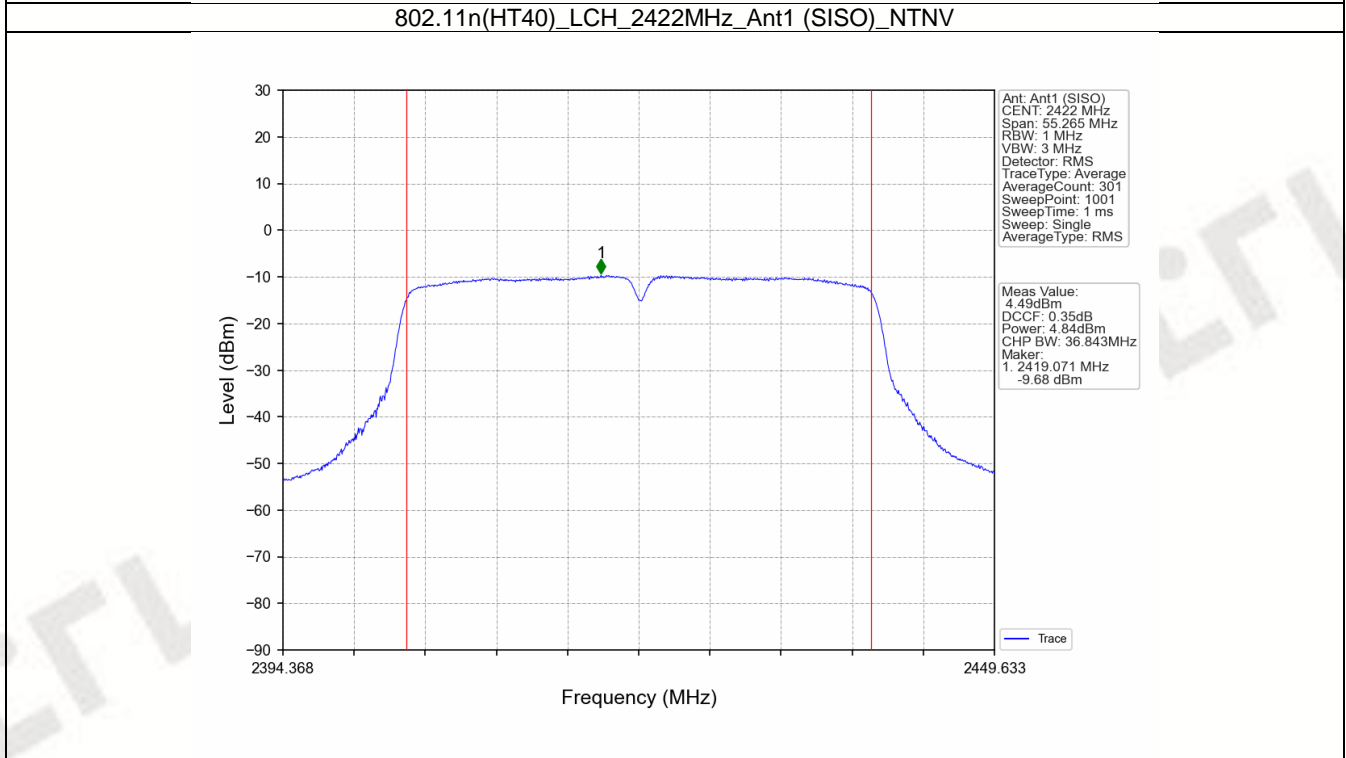
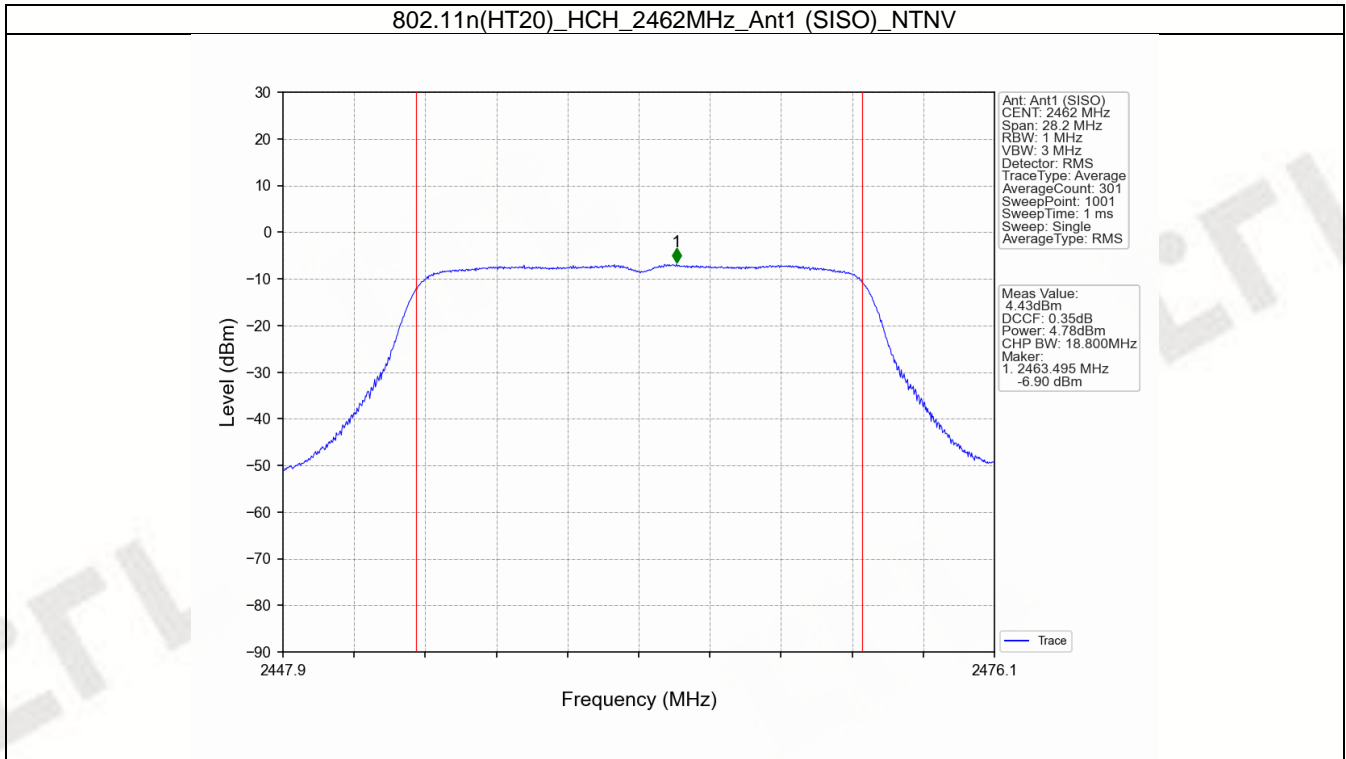
FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2

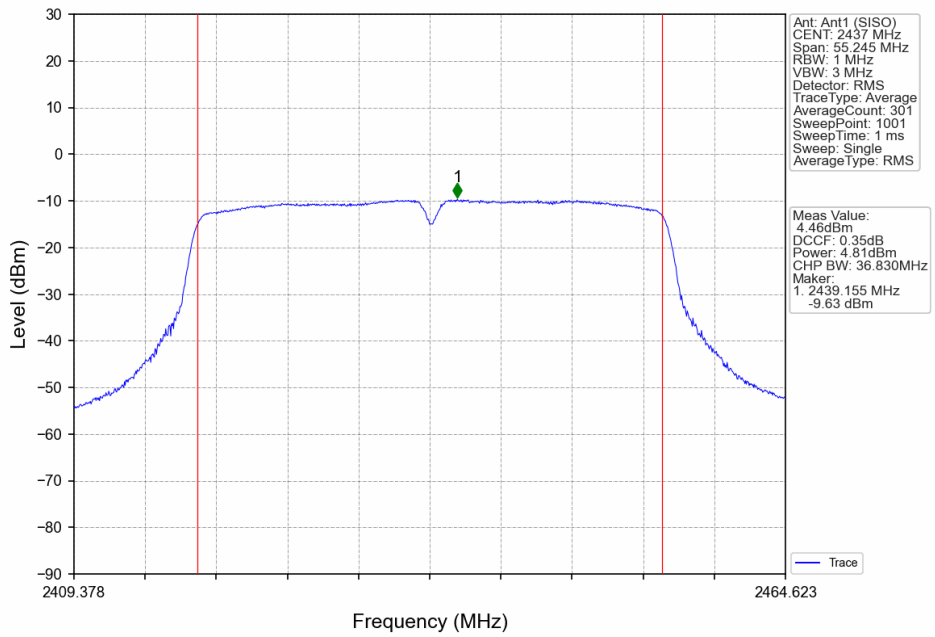


FCCID: 2AYM8-LHD2

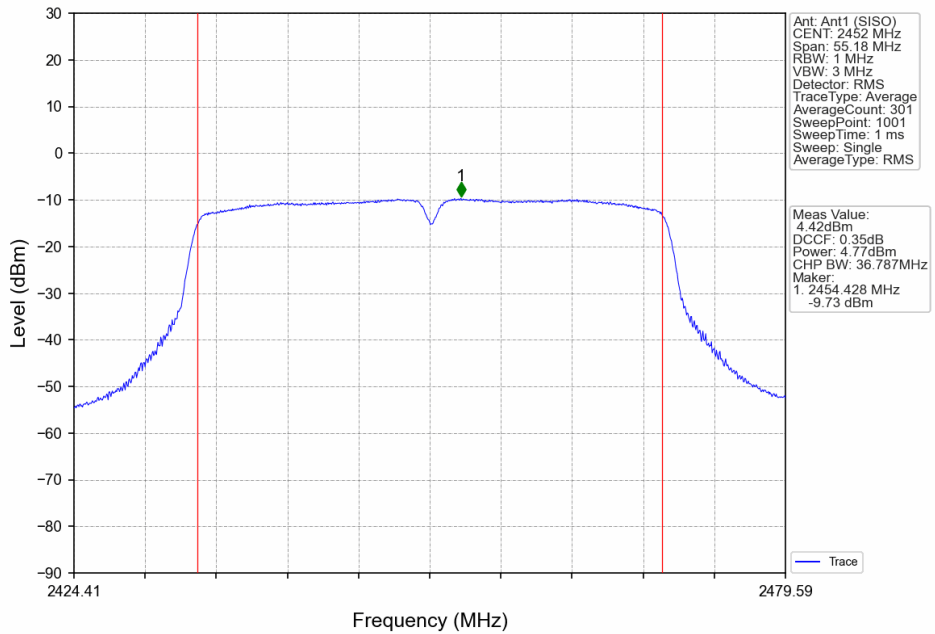


FCCID: 2AYM8-LHD2

802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



FCCID: 2AYM8-LHD2

### 3. Maximum Power Spectral Density

#### 3.1 PSD

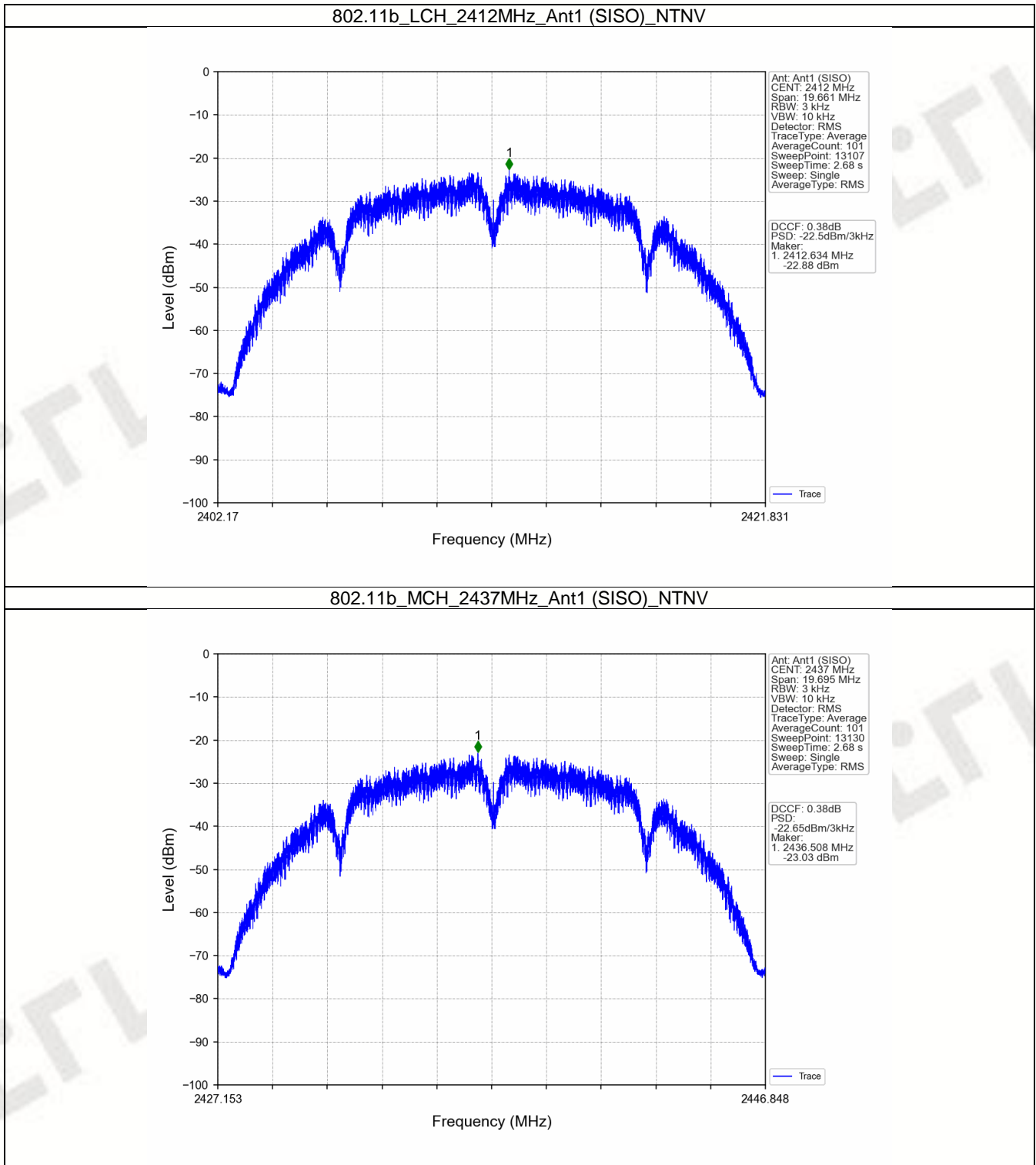
##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-22.50	<=8	Pass
		2437	-22.65	<=8	Pass
		2462	-23.10	<=8	Pass
802.11g	SISO	2412	-23.98	<=8	Pass
		2437	-24.21	<=8	Pass
		2462	-24.36	<=8	Pass
802.11n (HT20)	SISO	2412	-24.56	<=8	Pass
		2437	-24.38	<=8	Pass
		2462	-24.03	<=8	Pass
802.11n (HT40)	SISO	2422	-26.87	<=8	Pass
		2437	-26.35	<=8	Pass
		2452	-27.04	<=8	Pass

Note1: Antenna Gain: Ant1: -0.52dBi;

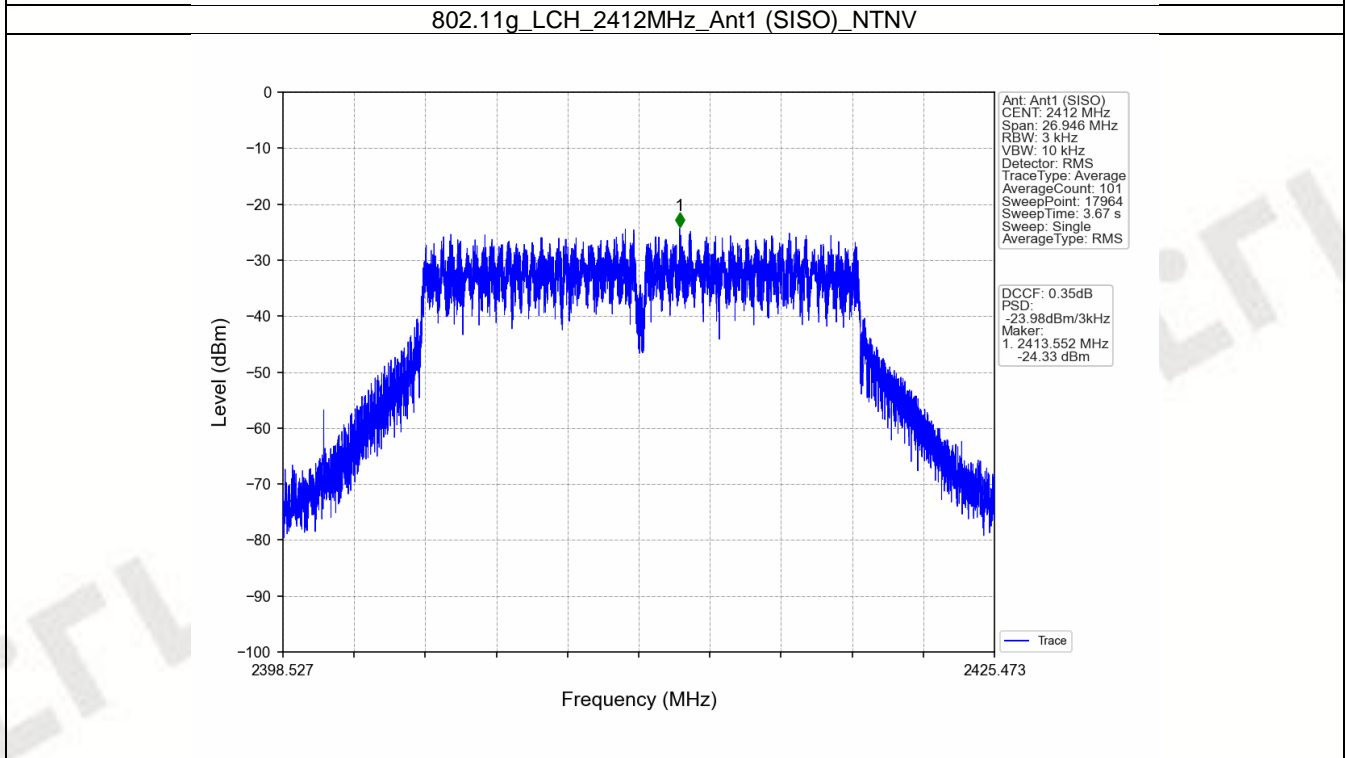
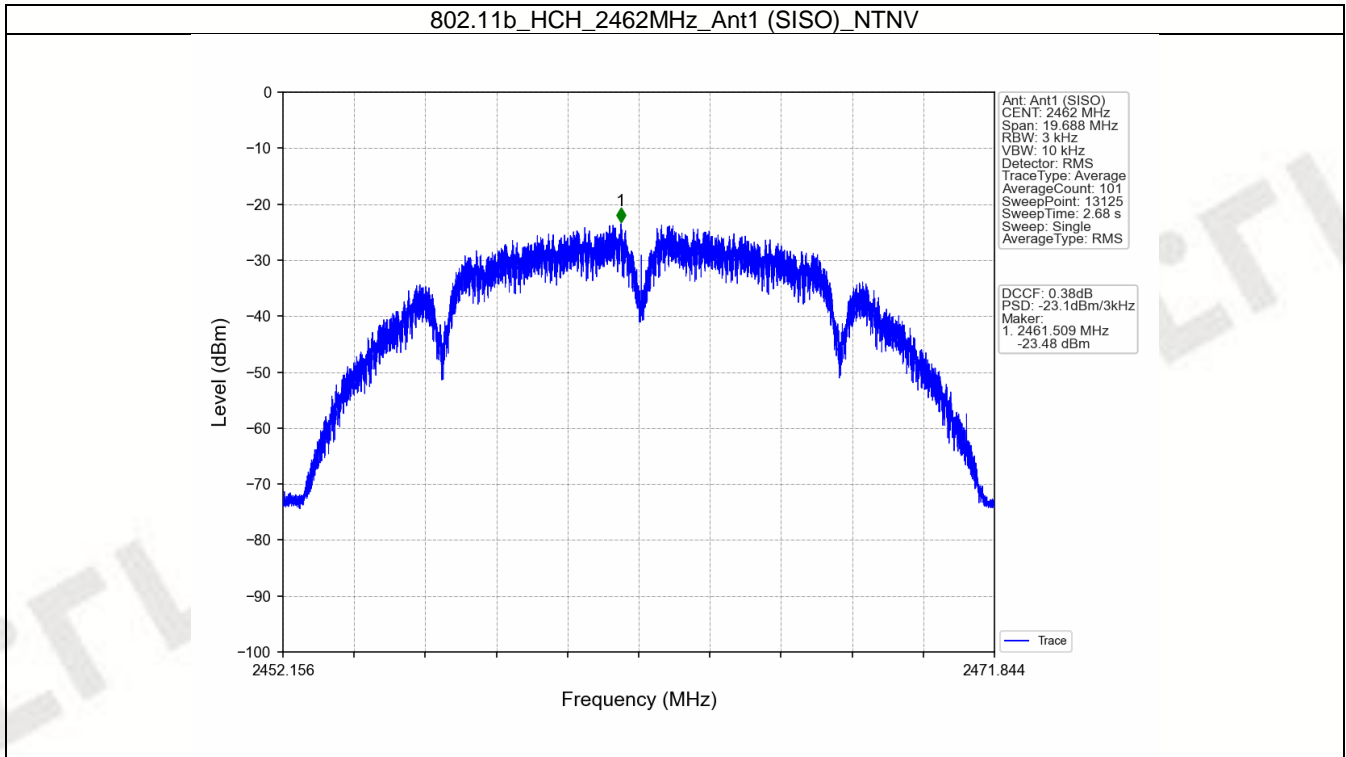
FCCID: 2AYM8-LHD2

### 3.1.2 Test Graph

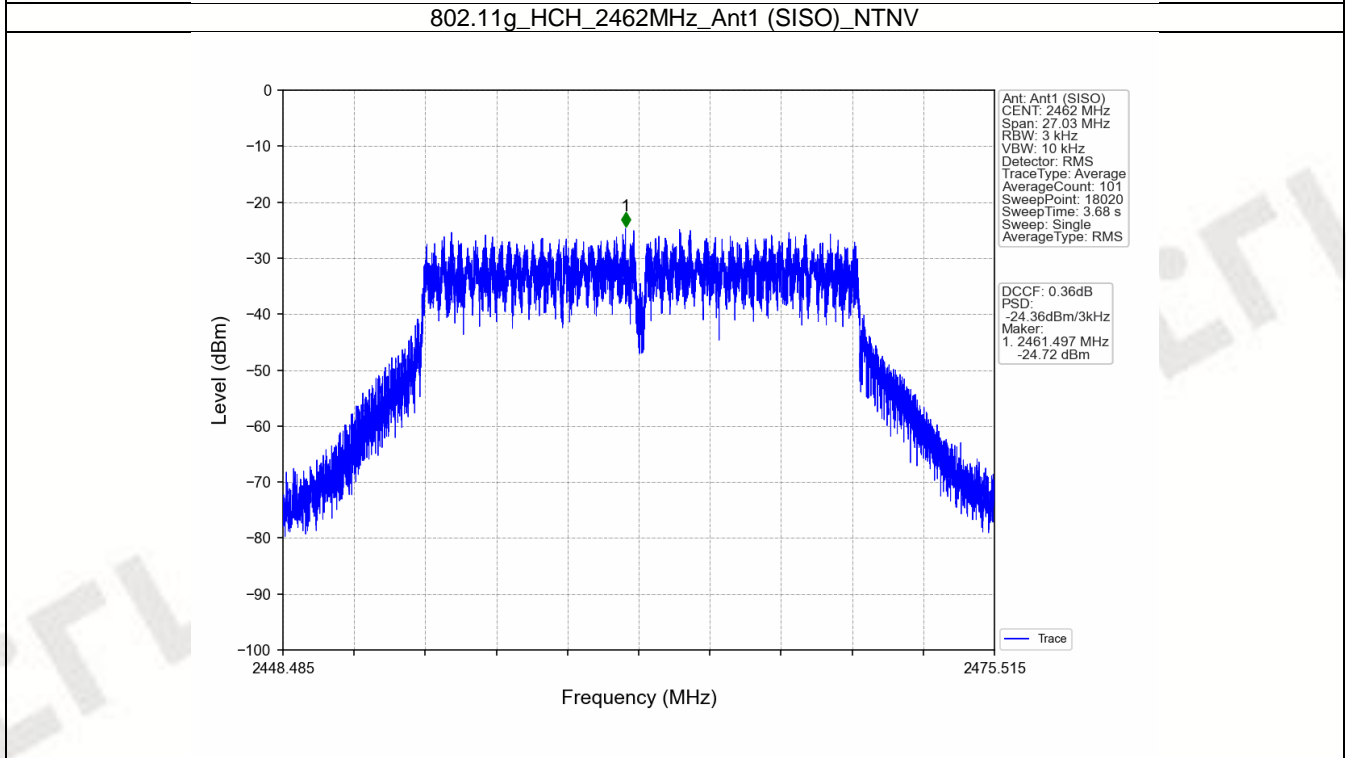
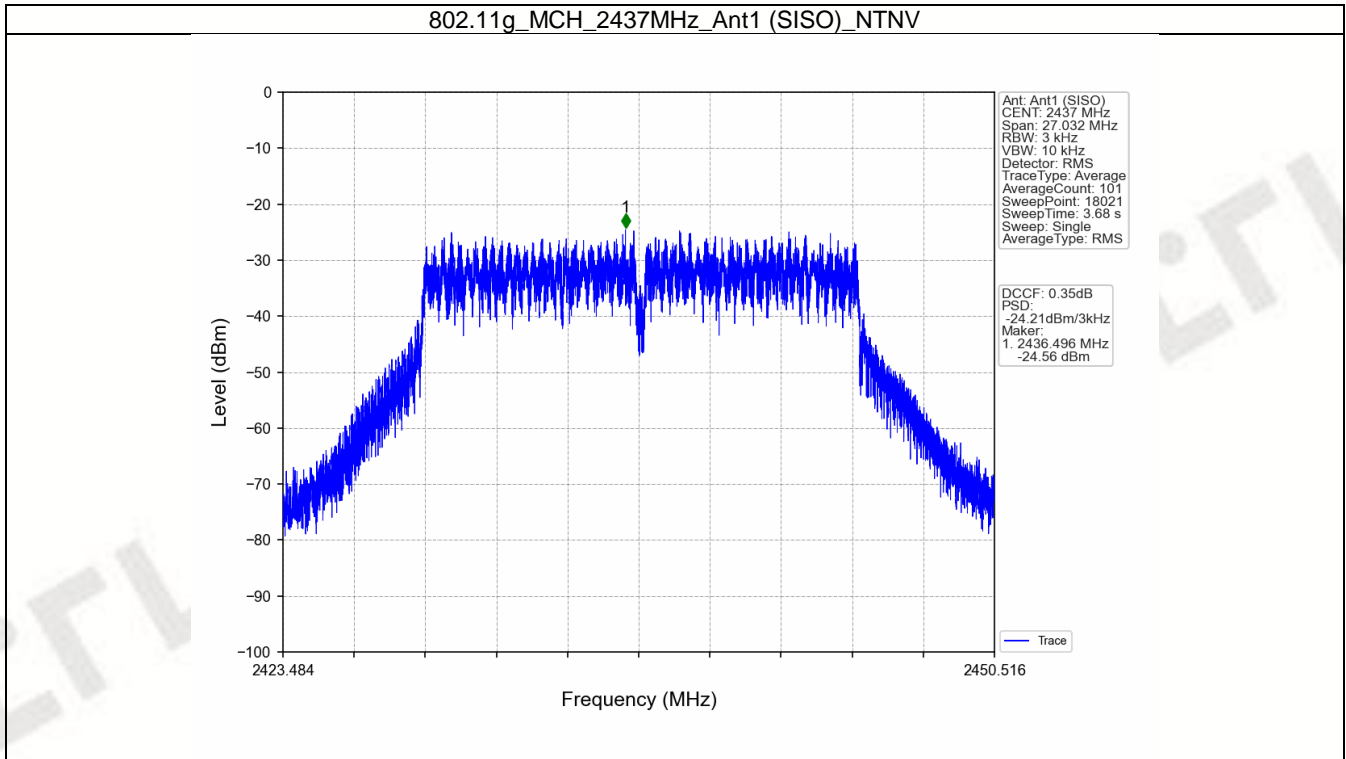




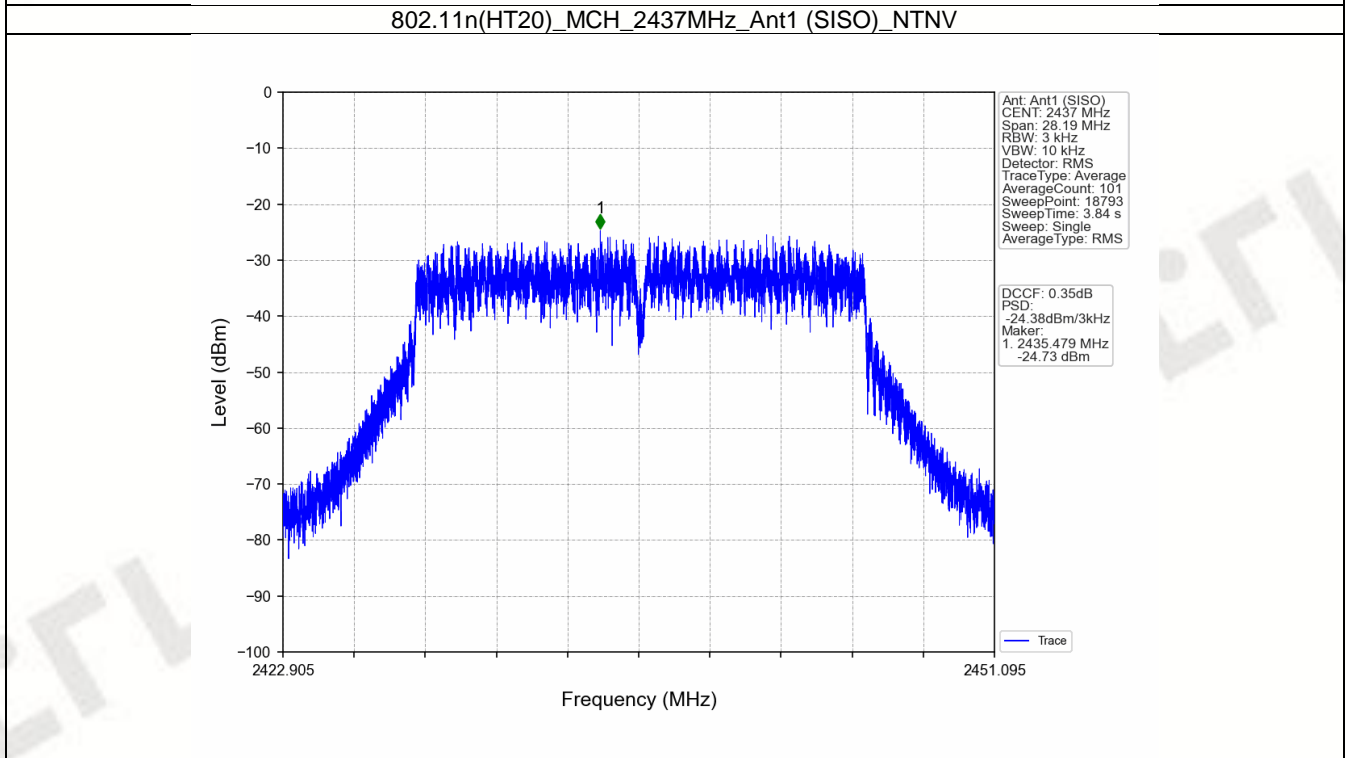
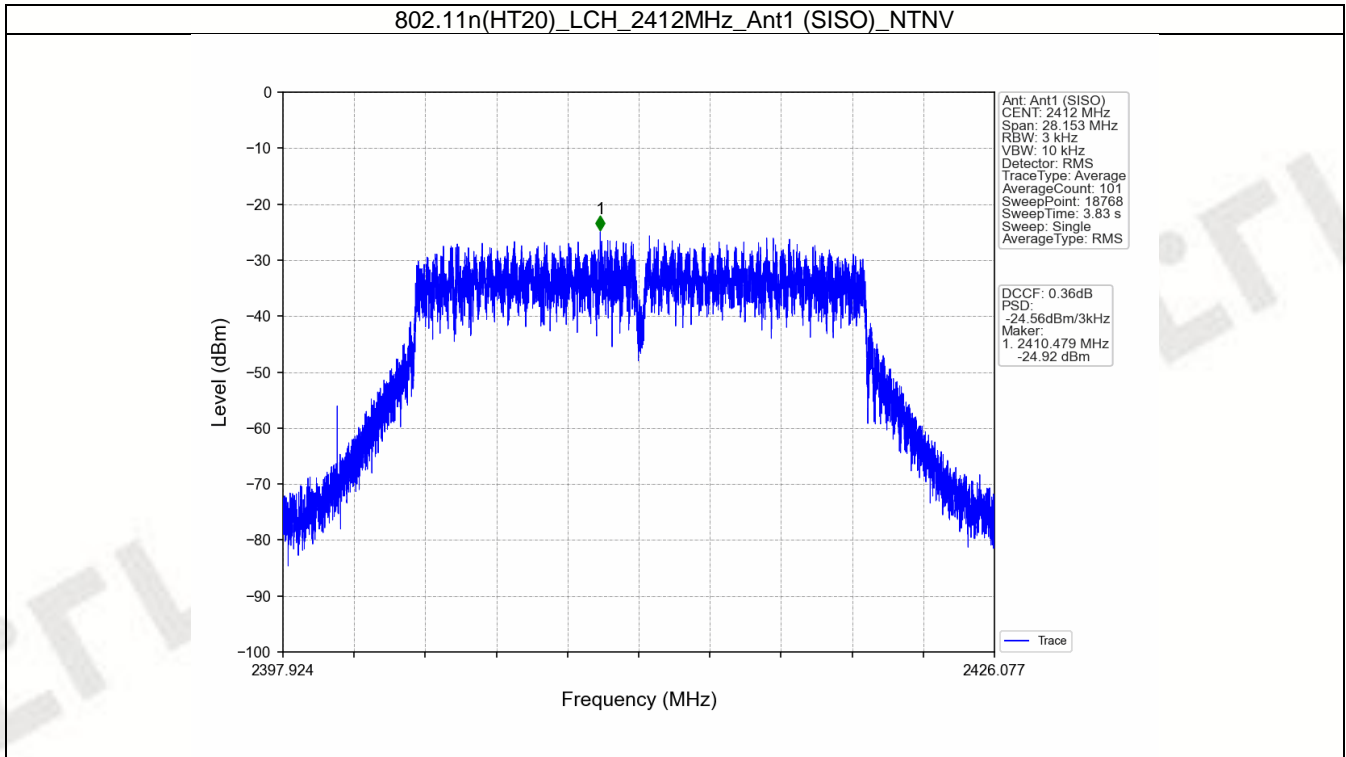
FCCID: 2AYM8-LHD2

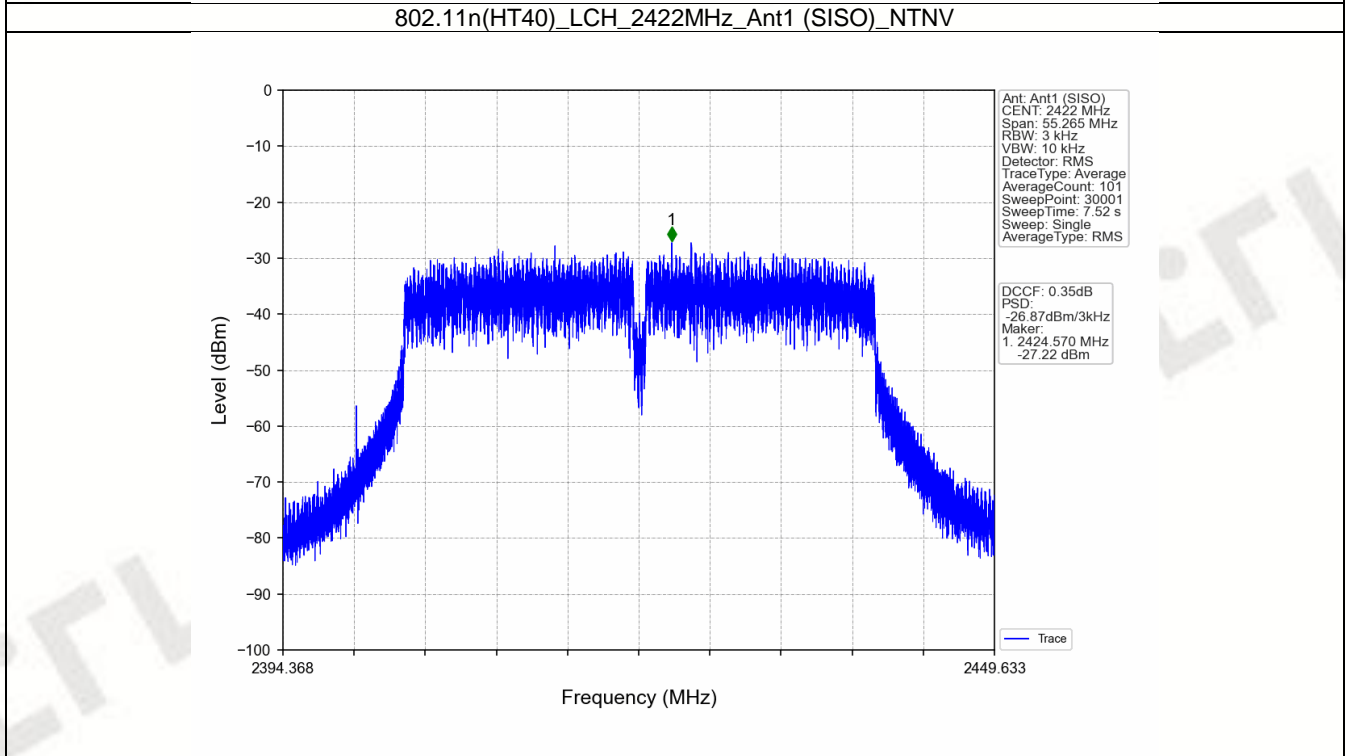
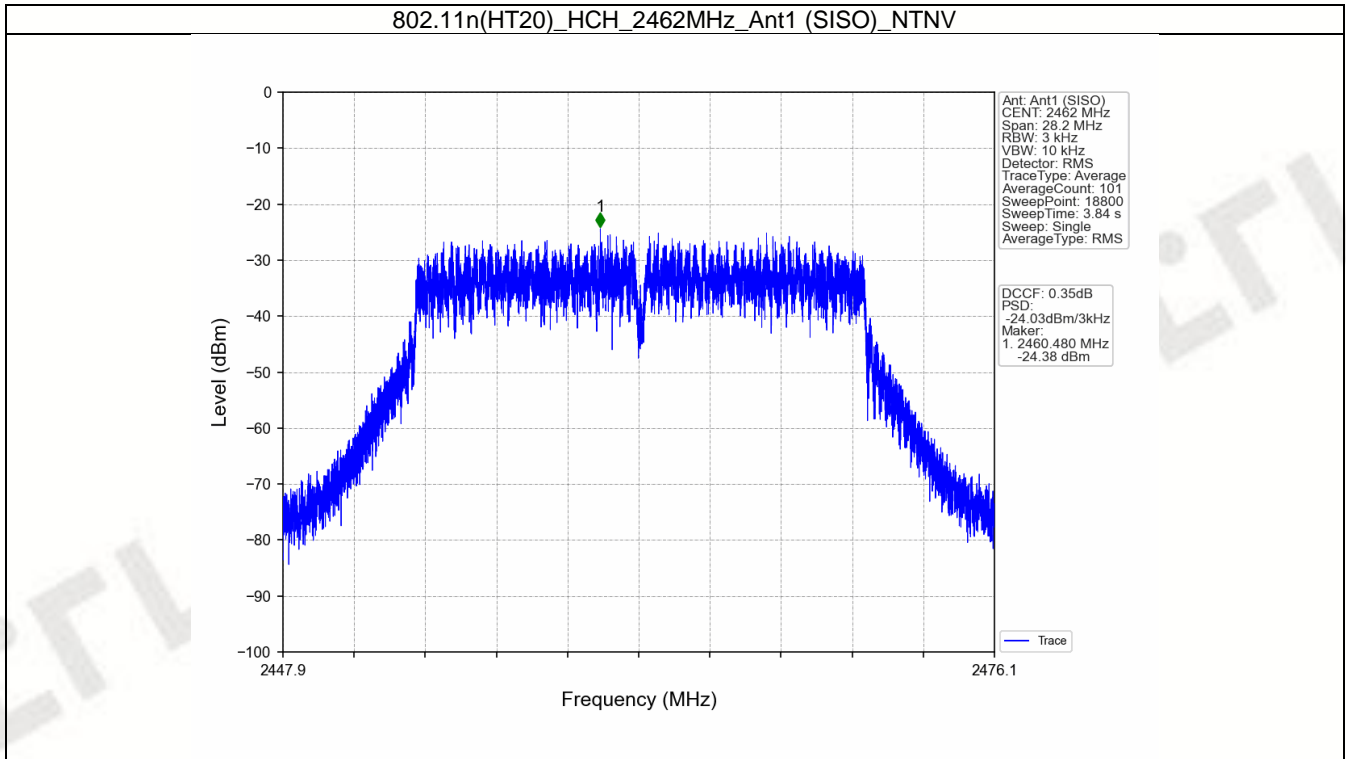


FCCID: 2AYM8-LHD2

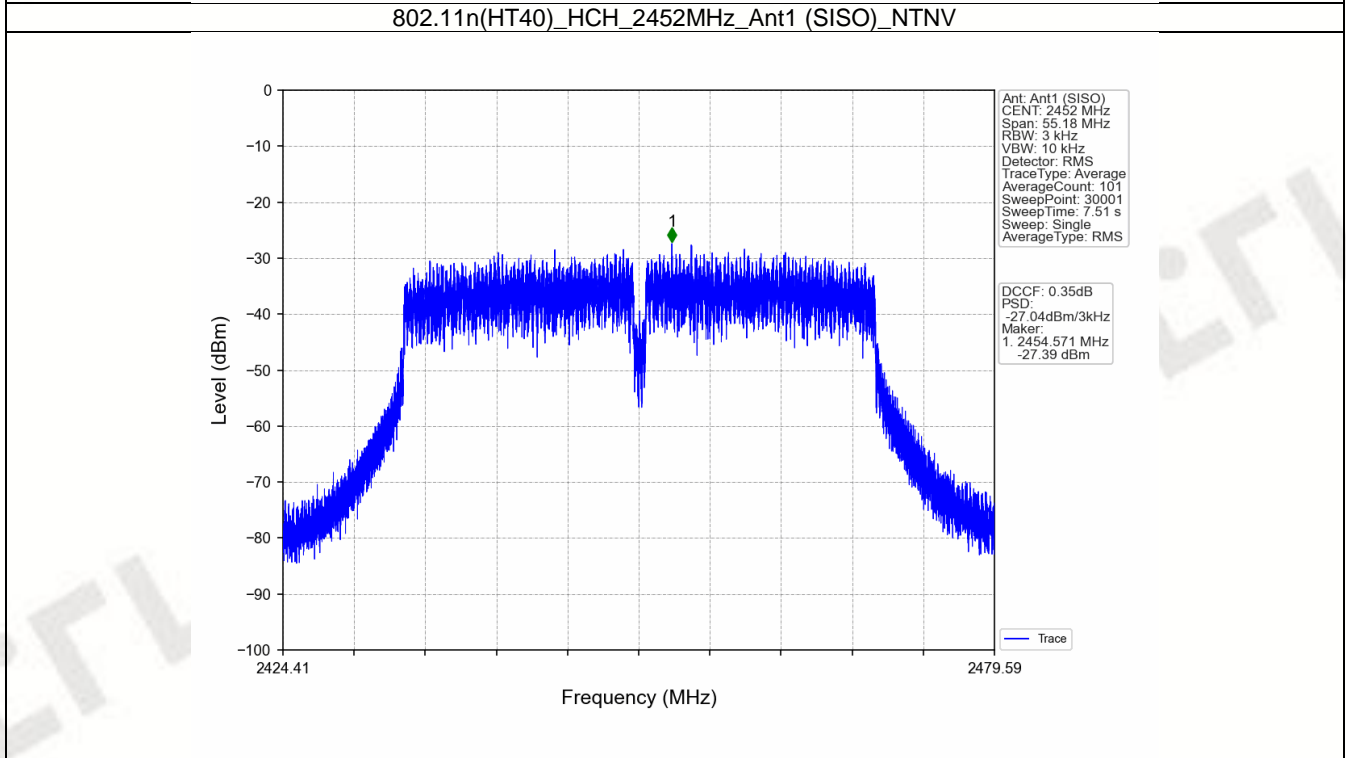
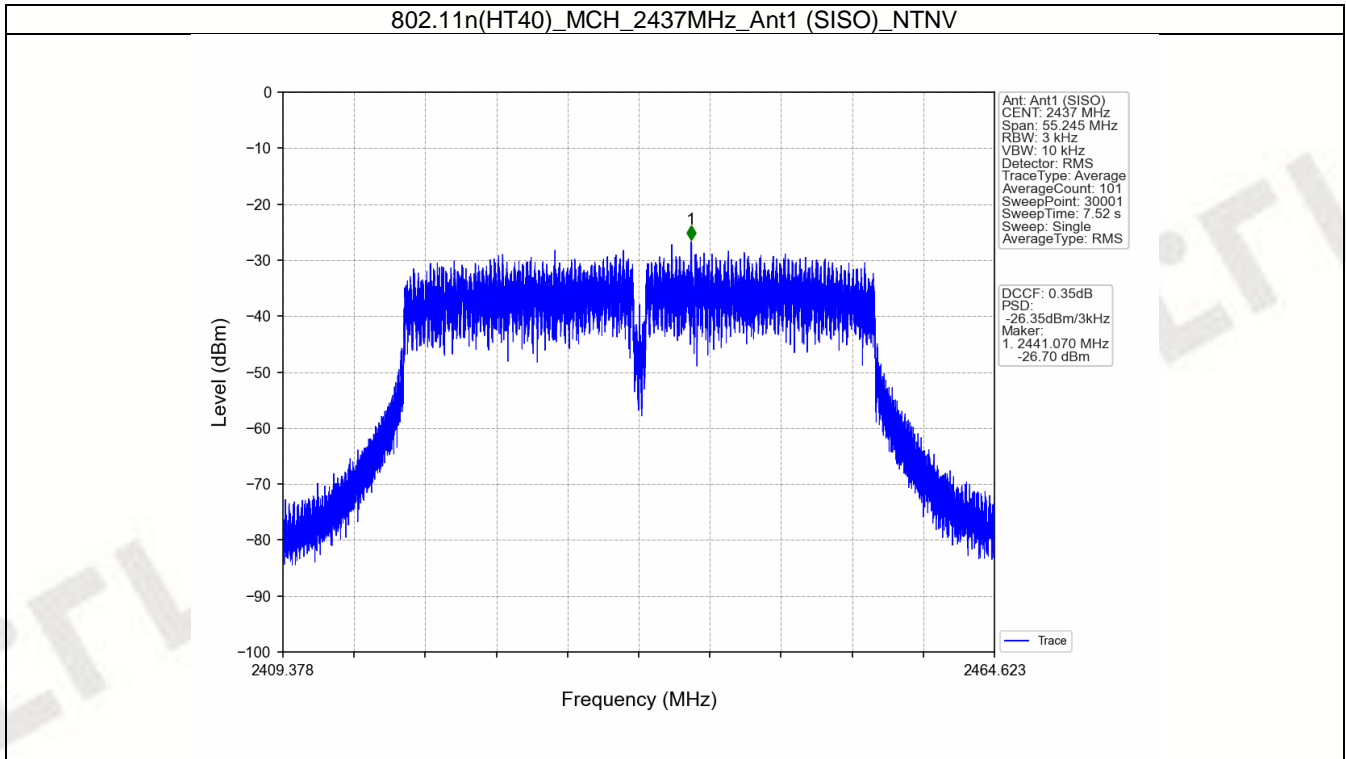


FCCID: 2AYM8-LHD2





FCCID: 2AYM8-LHD2



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

### 4.1 Ref

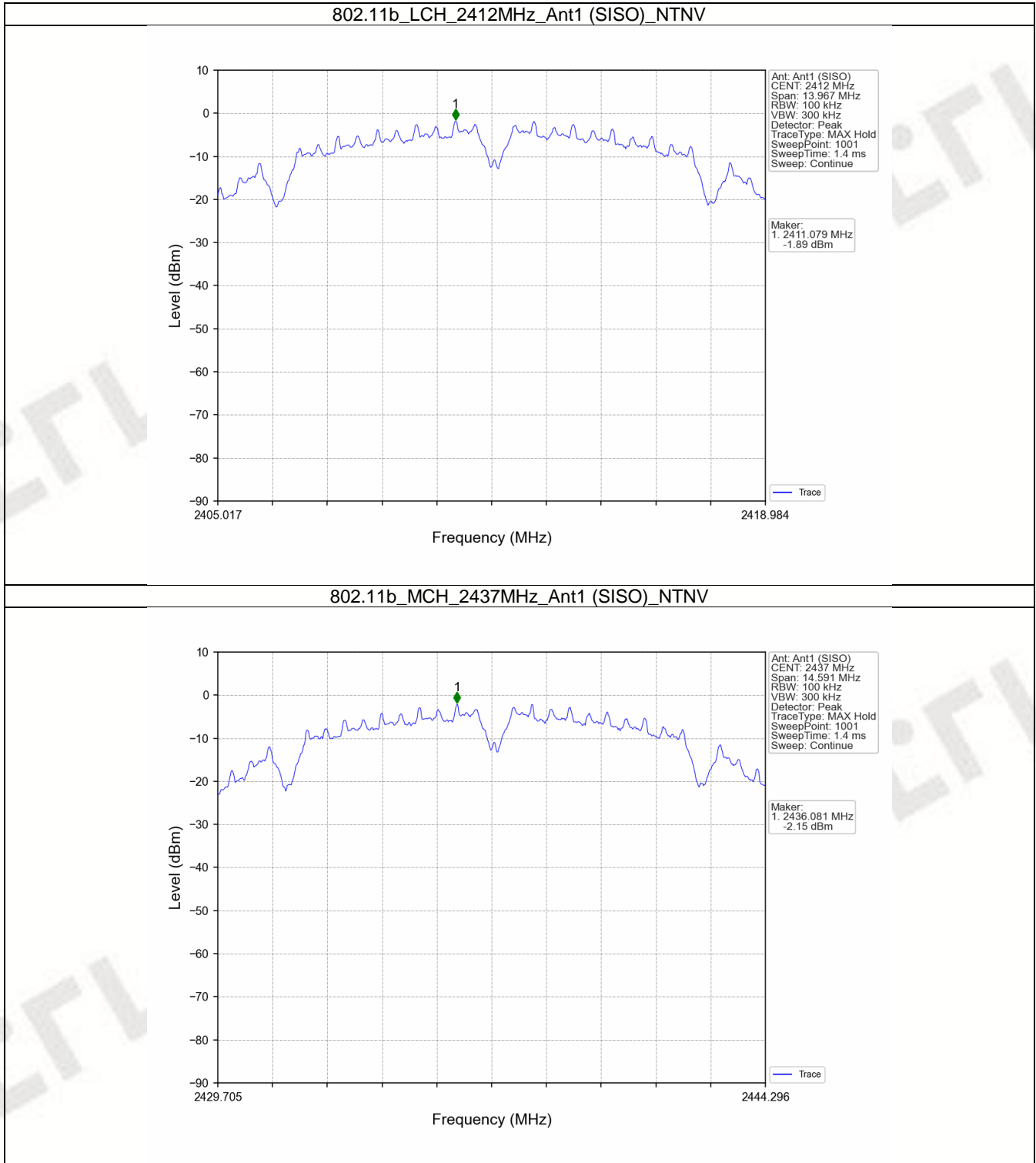
#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-1.89
		2437	1	-2.15
		2462	1	-2.30
802.11g	SISO	2412	1	-4.59
		2437	1	-4.72
		2462	1	-4.88
802.11n (HT20)	SISO	2412	1	-5.61
		2437	1	-5.76
		2462	1	-5.92
802.11n (HT40)	SISO	2422	1	-9.04
		2437	1	-8.97
		2452	1	-8.97

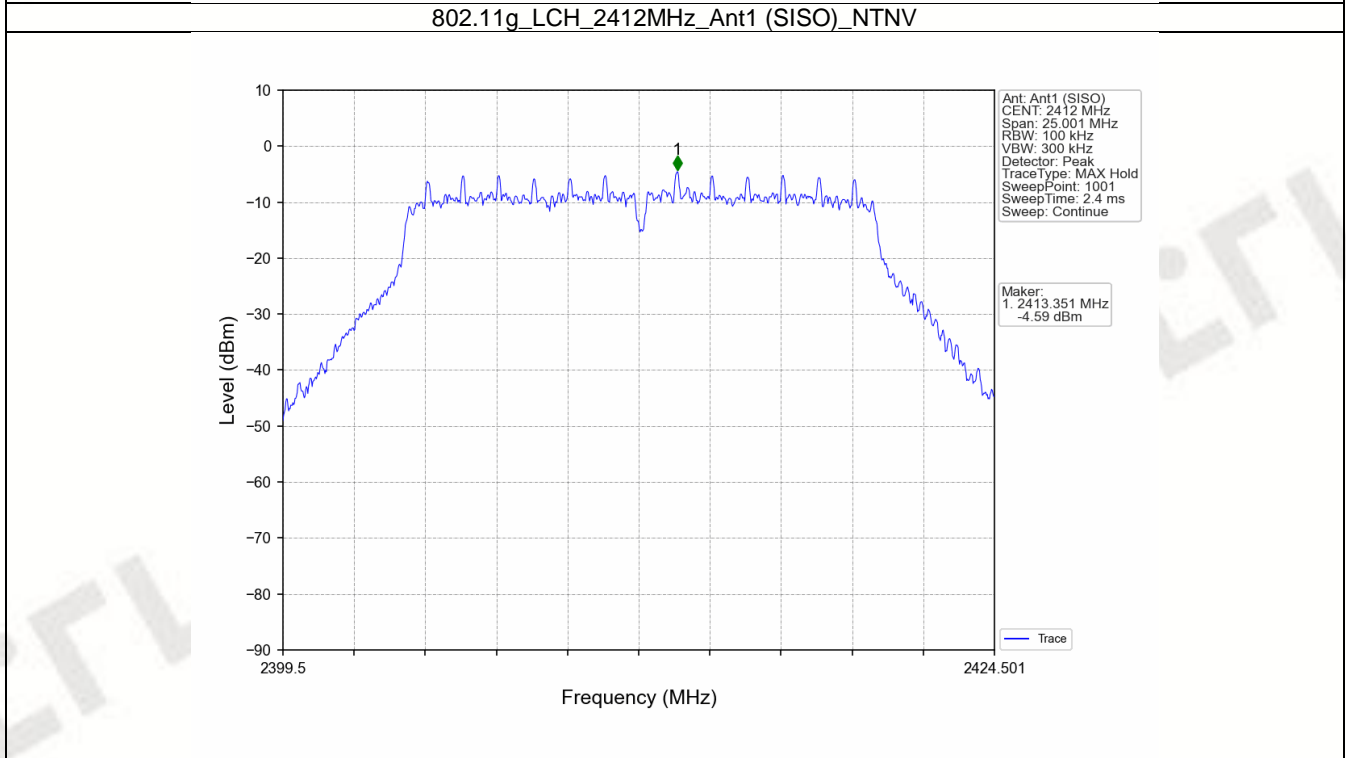
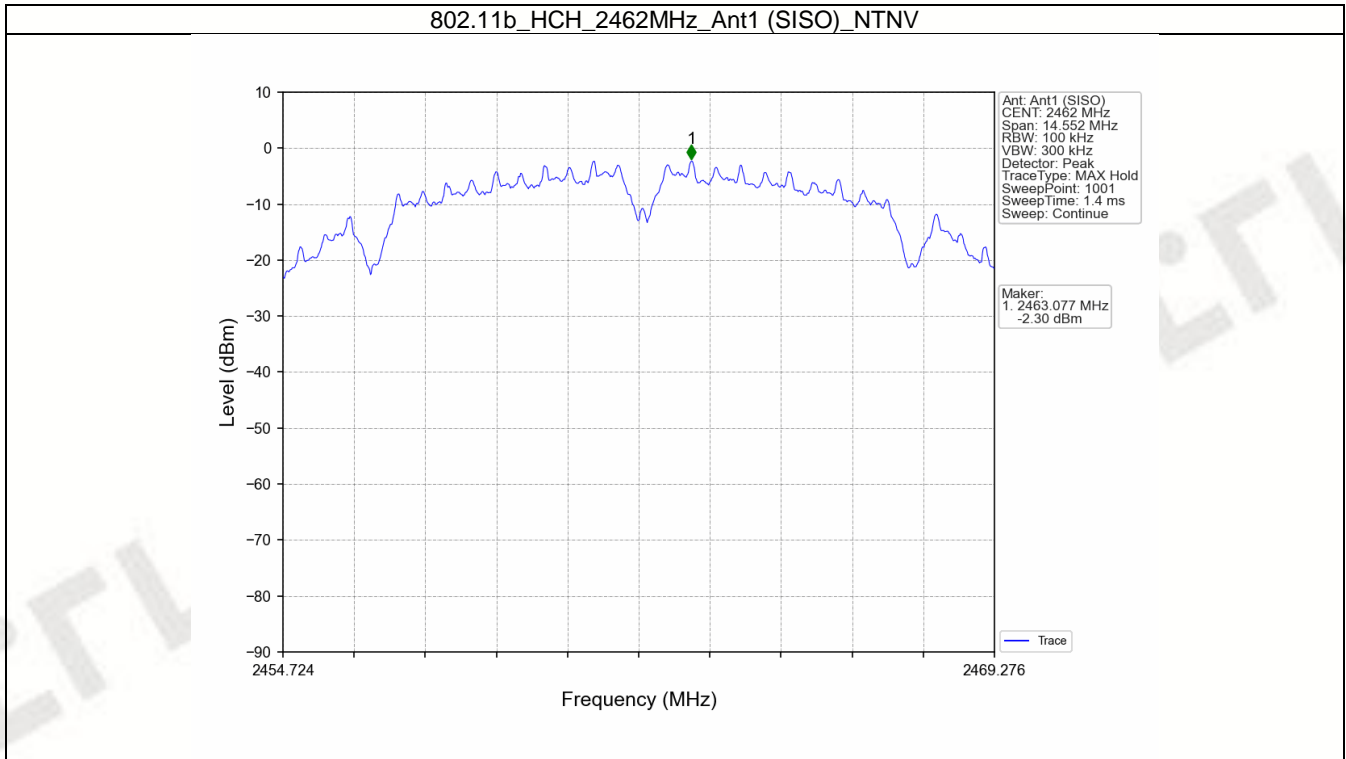
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

FCCID: 2AYM8-LHD2

### 4.1.2 Test Graph

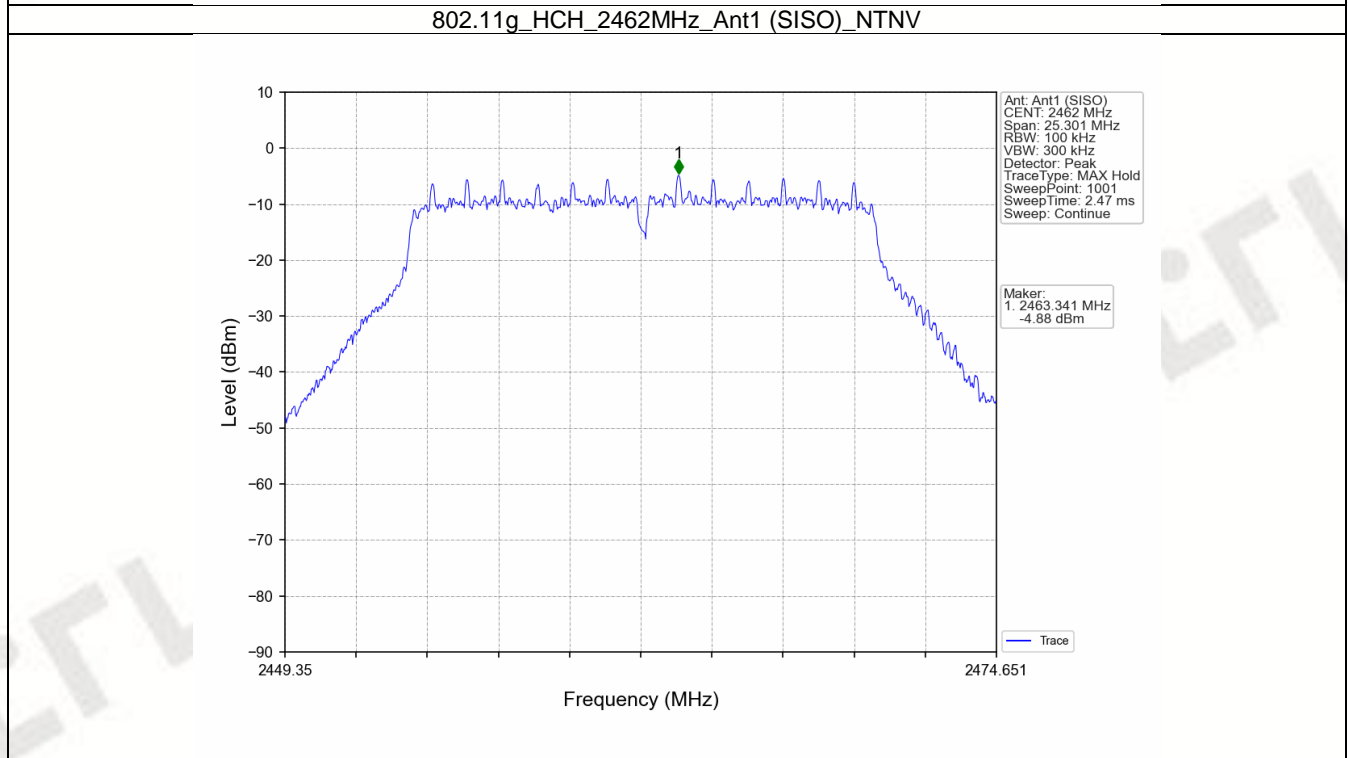
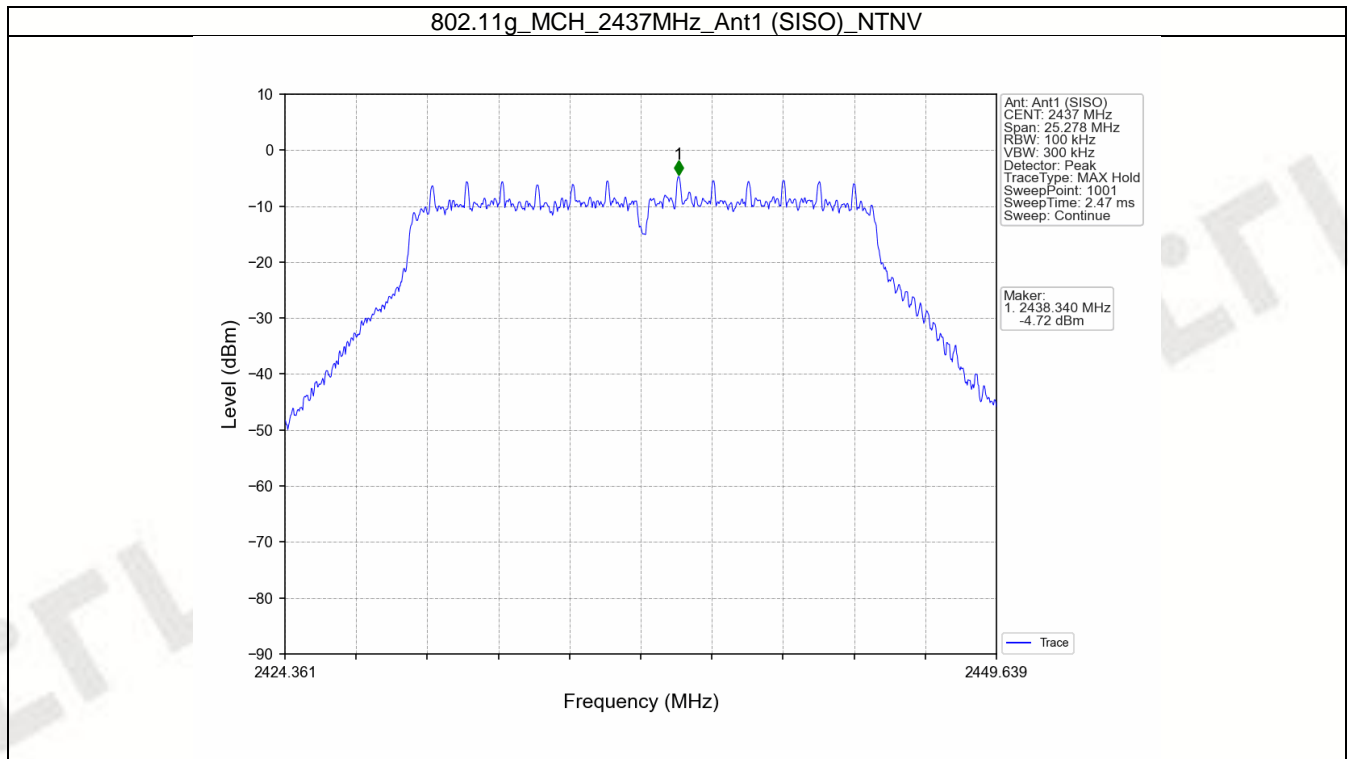


FCCID: 2AYM8-LHD2

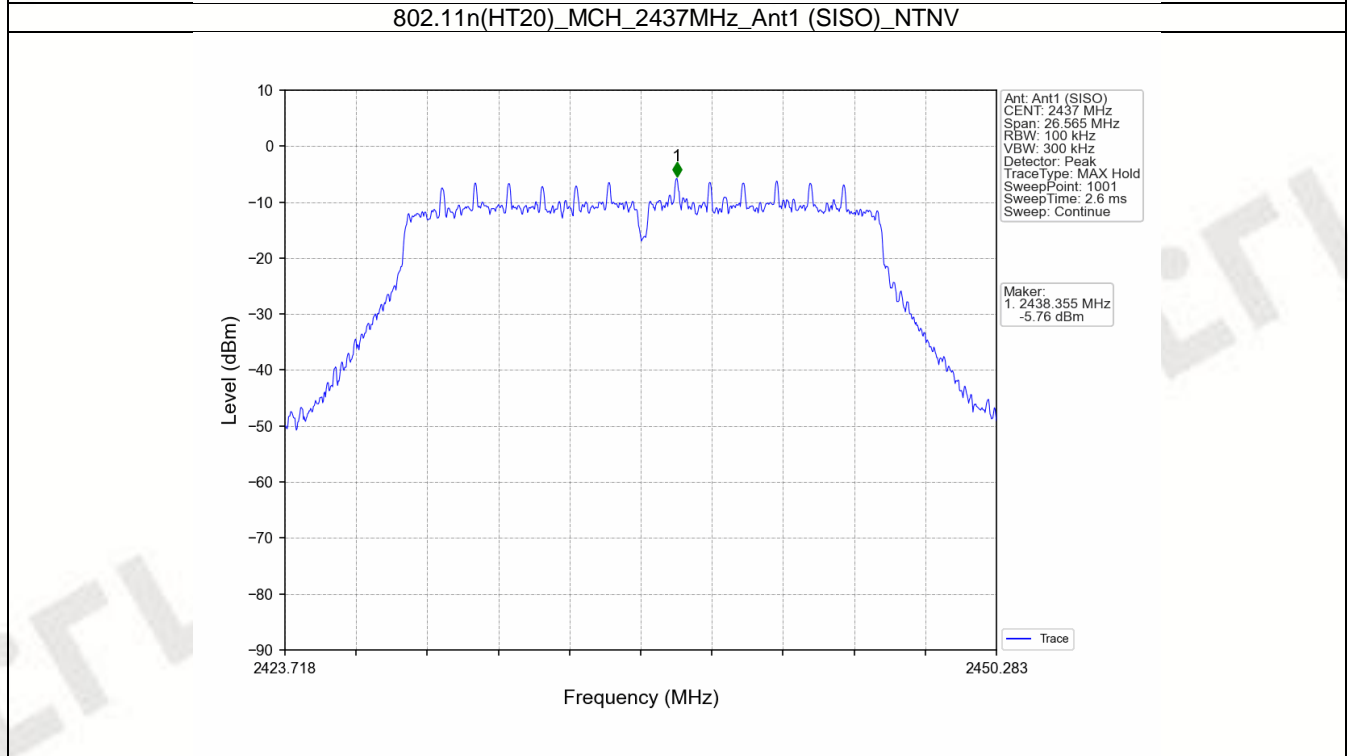
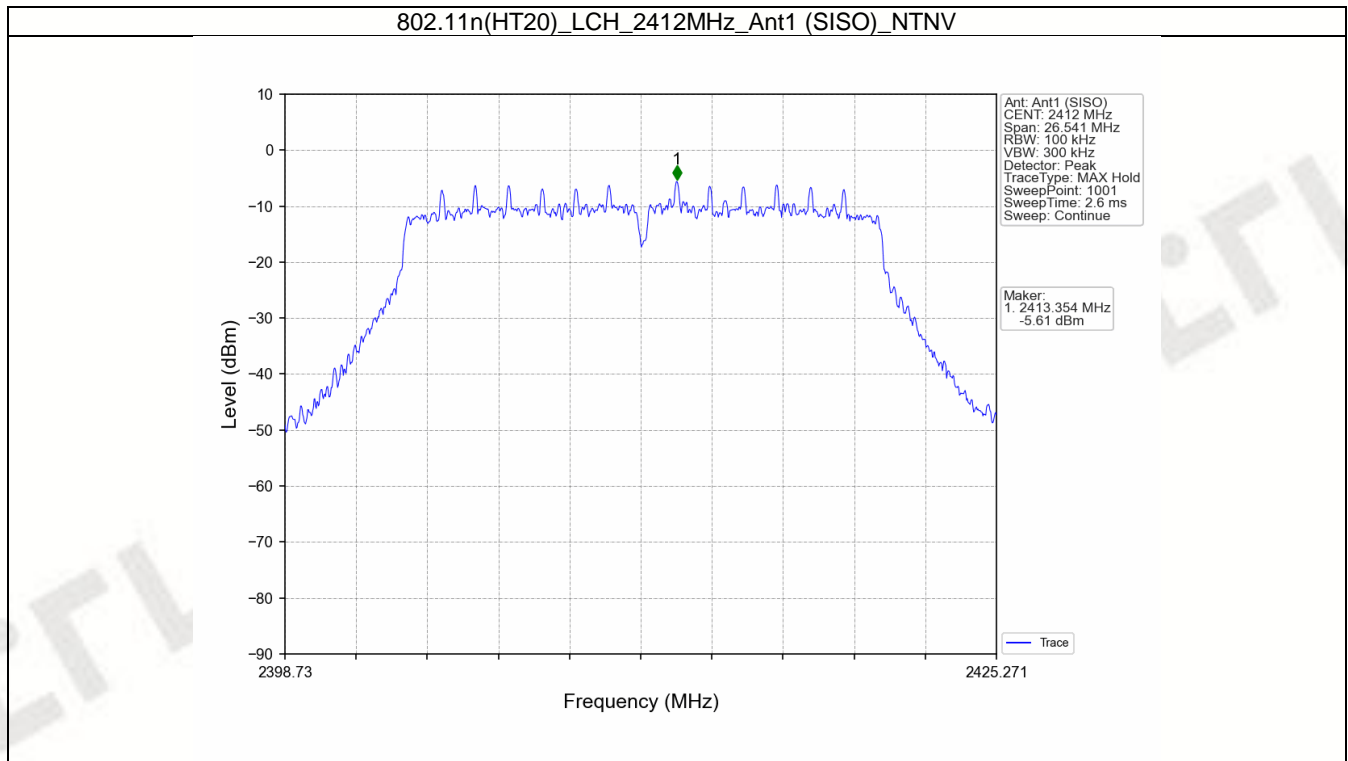




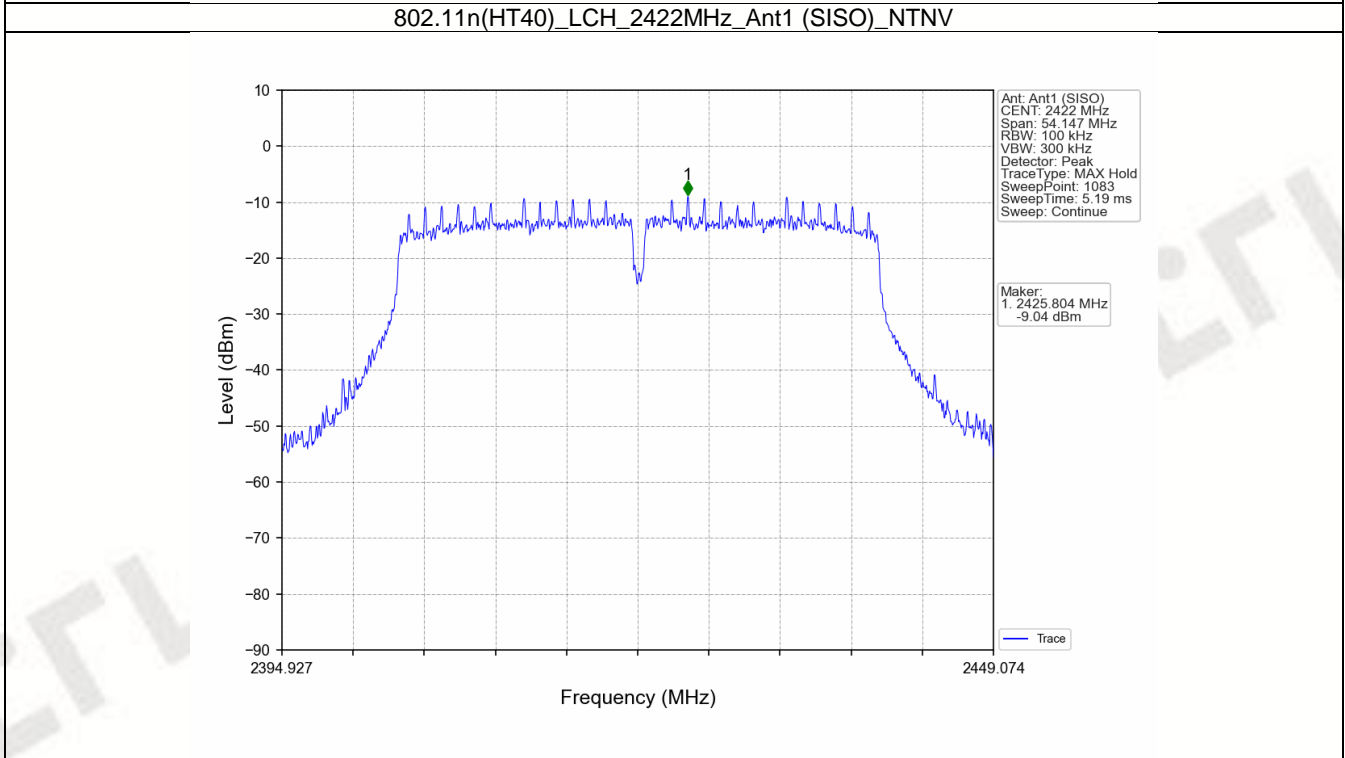
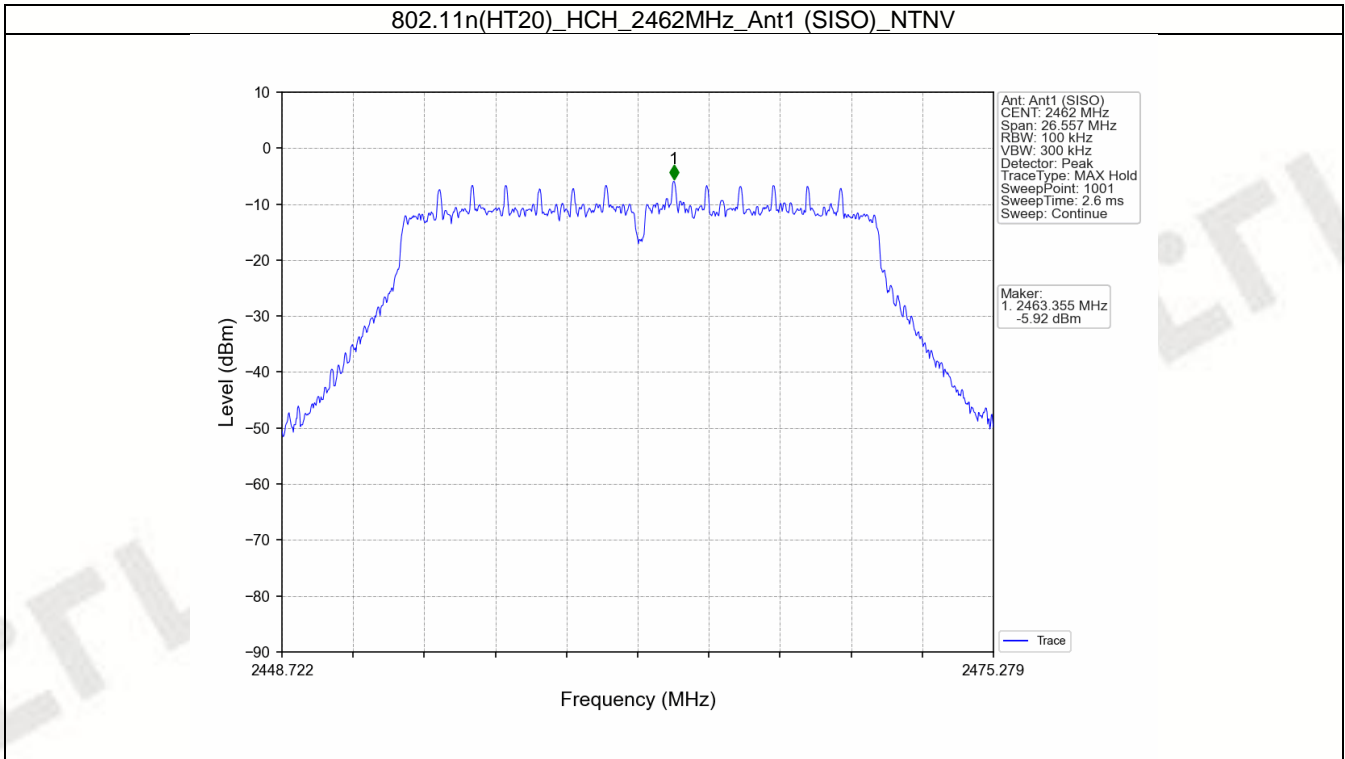
FCCID: 2AYM8-LHD2



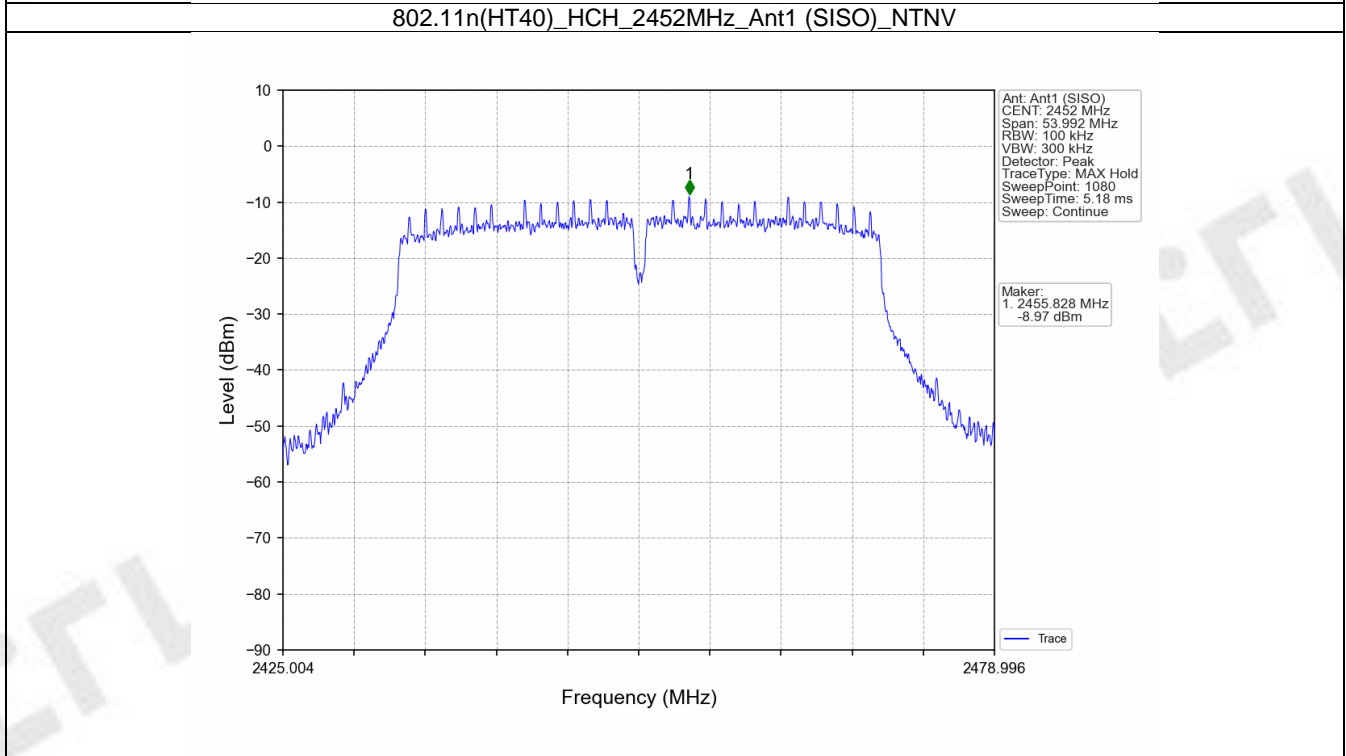
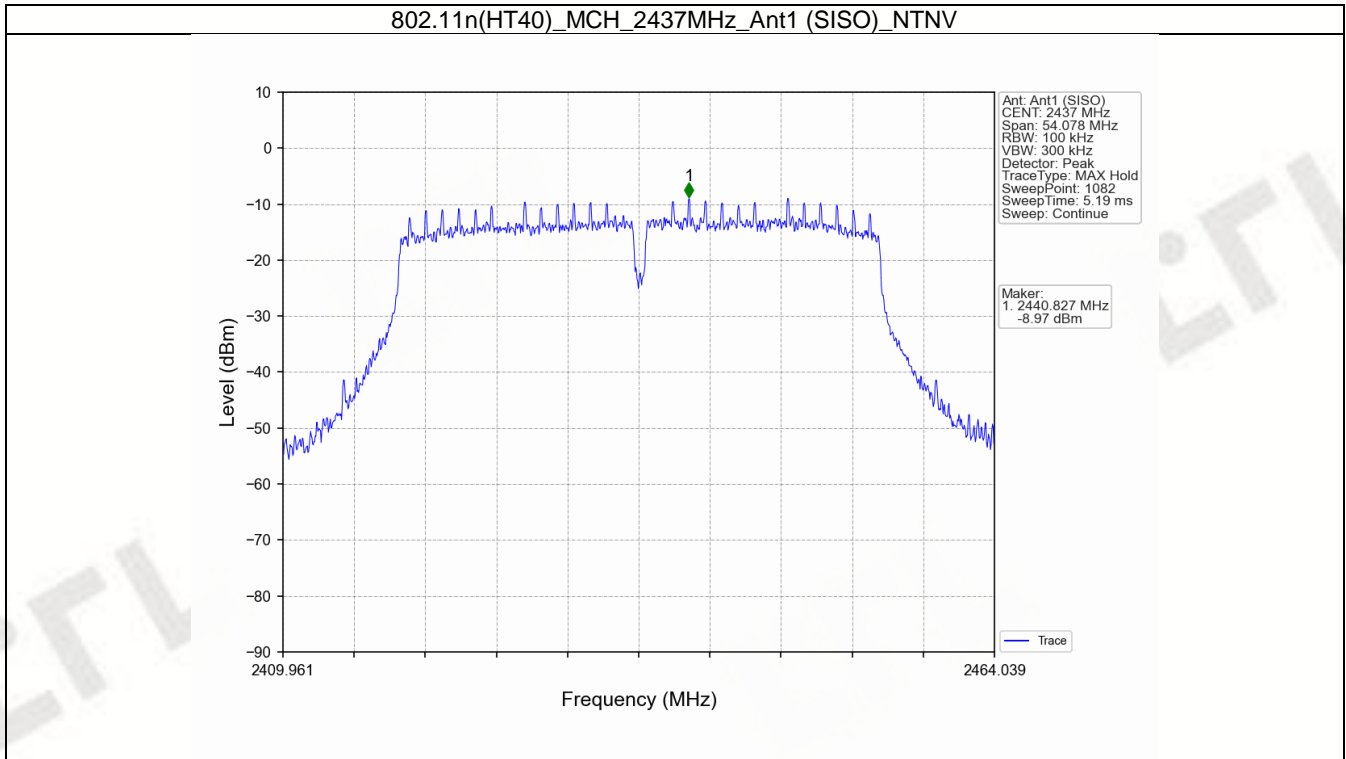
FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2



FCCID: 2AYM8-LHD2

## 4.2 CSE

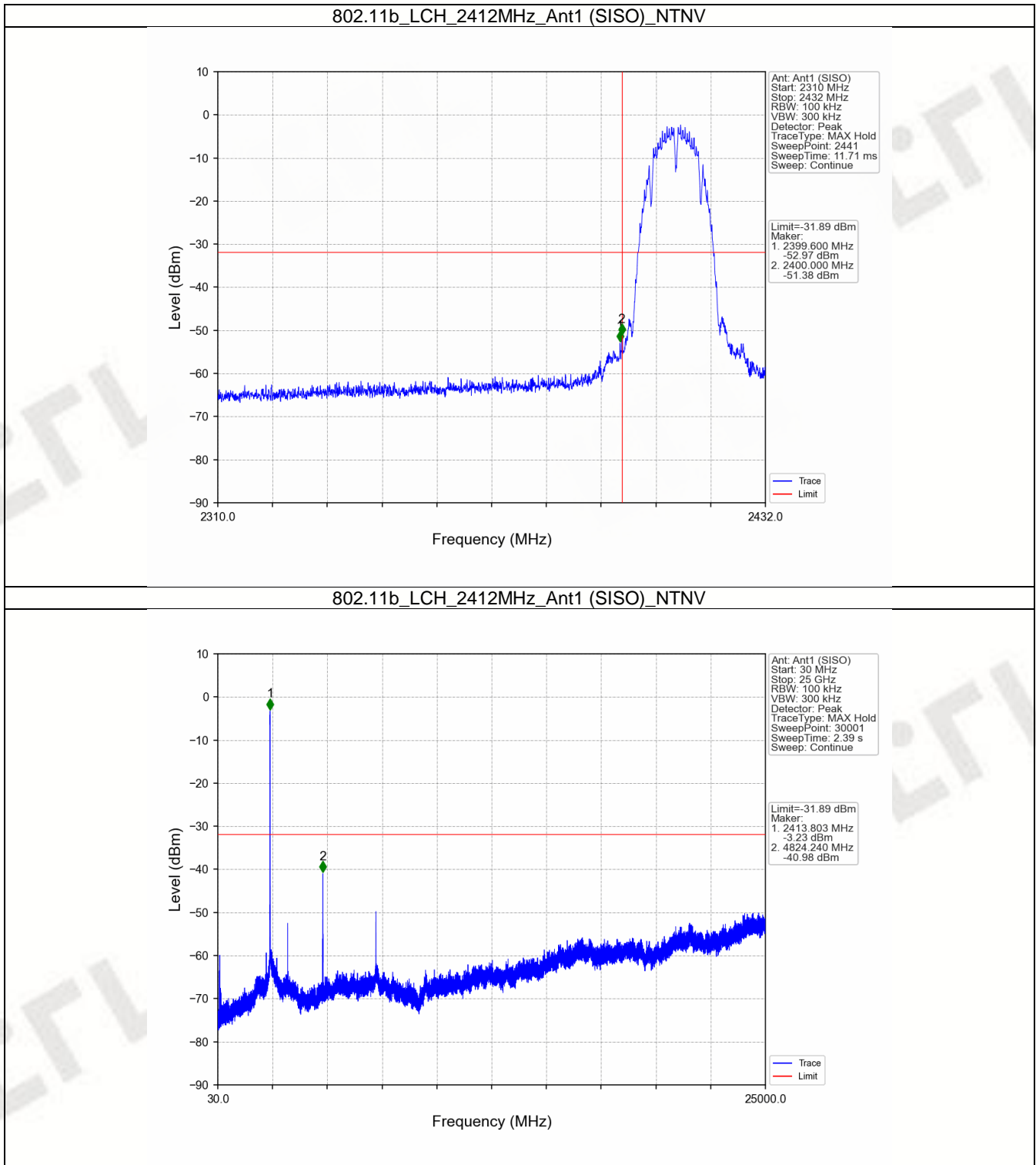
### 4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-1.89	-31.89	Pass
		2437	1	-1.89	-31.89	Pass
		2462	1	-1.89	-31.89	Pass
802.11g	SISO	2412	1	-4.59	-34.59	Pass
		2437	1	-4.59	-34.59	Pass
		2462	1	-4.59	-34.59	Pass
802.11n (HT20)	SISO	2412	1	-5.61	-35.61	Pass
		2437	1	-5.61	-35.61	Pass
		2462	1	-5.61	-35.61	Pass
802.11n (HT40)	SISO	2422	1	-8.97	-38.97	Pass
		2437	1	-8.97	-38.97	Pass
		2452	1	-8.97	-38.97	Pass

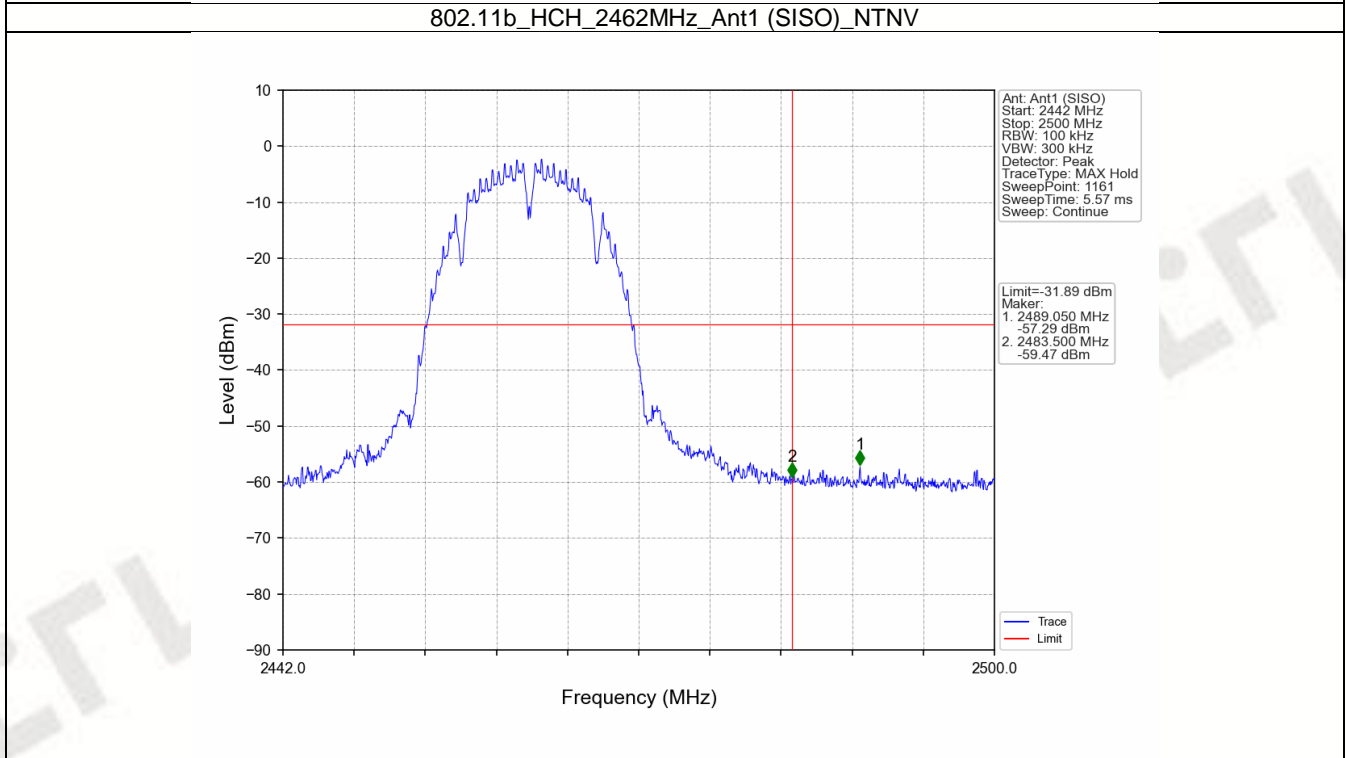
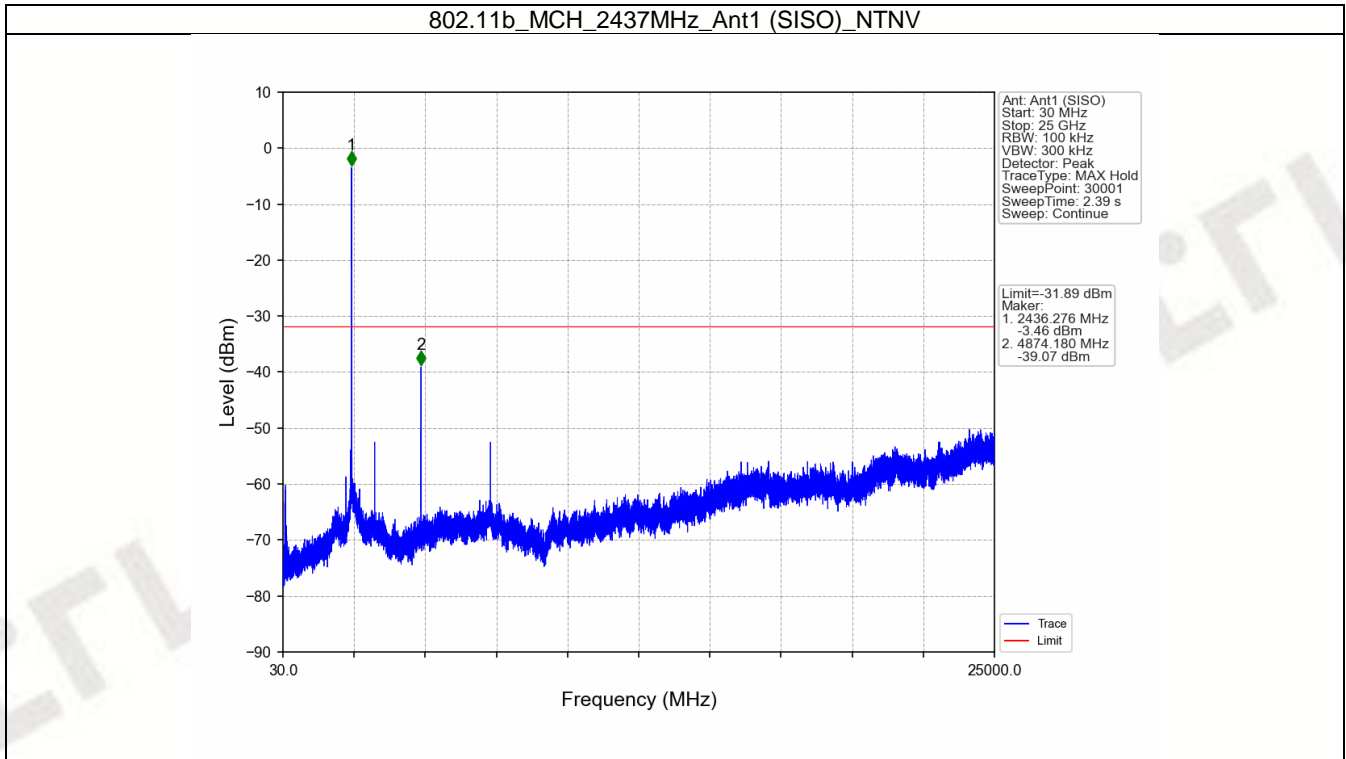
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

FCCID: 2AYM8-LHD2

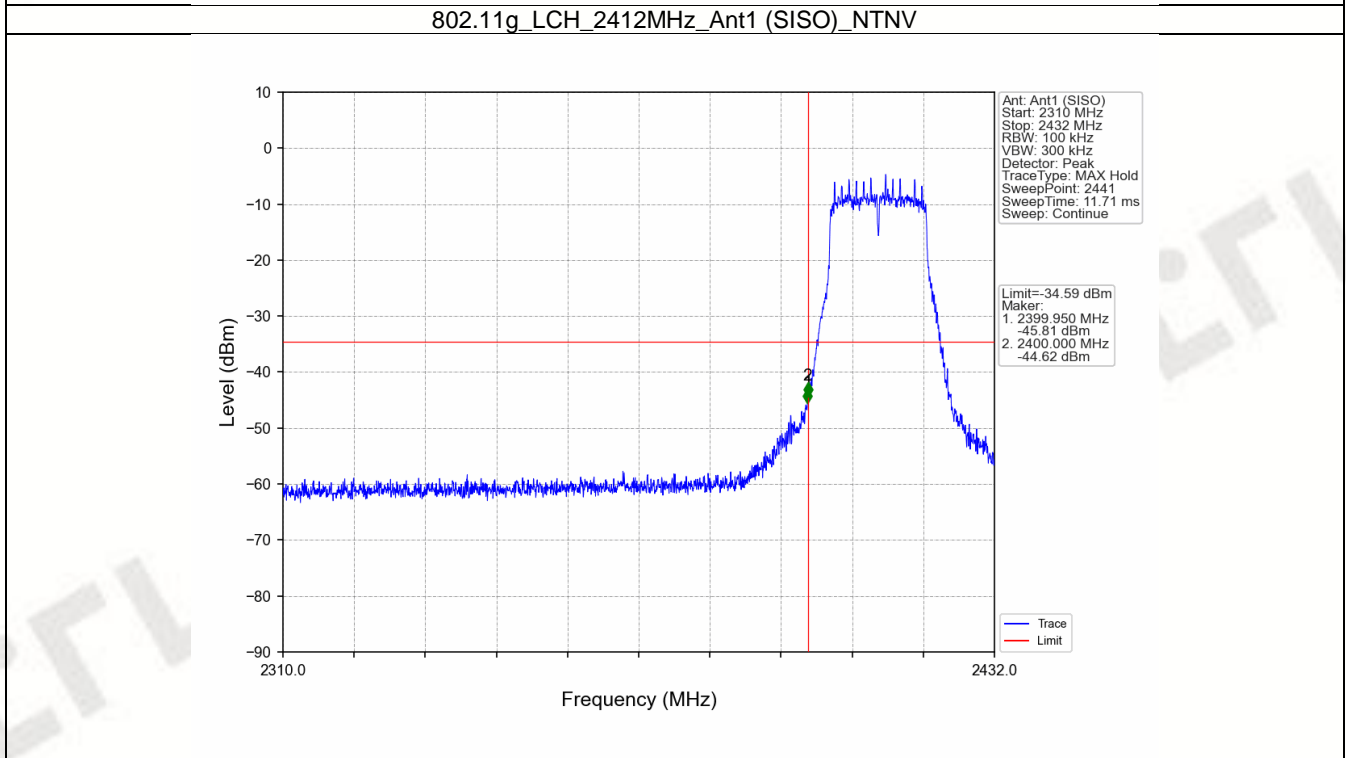
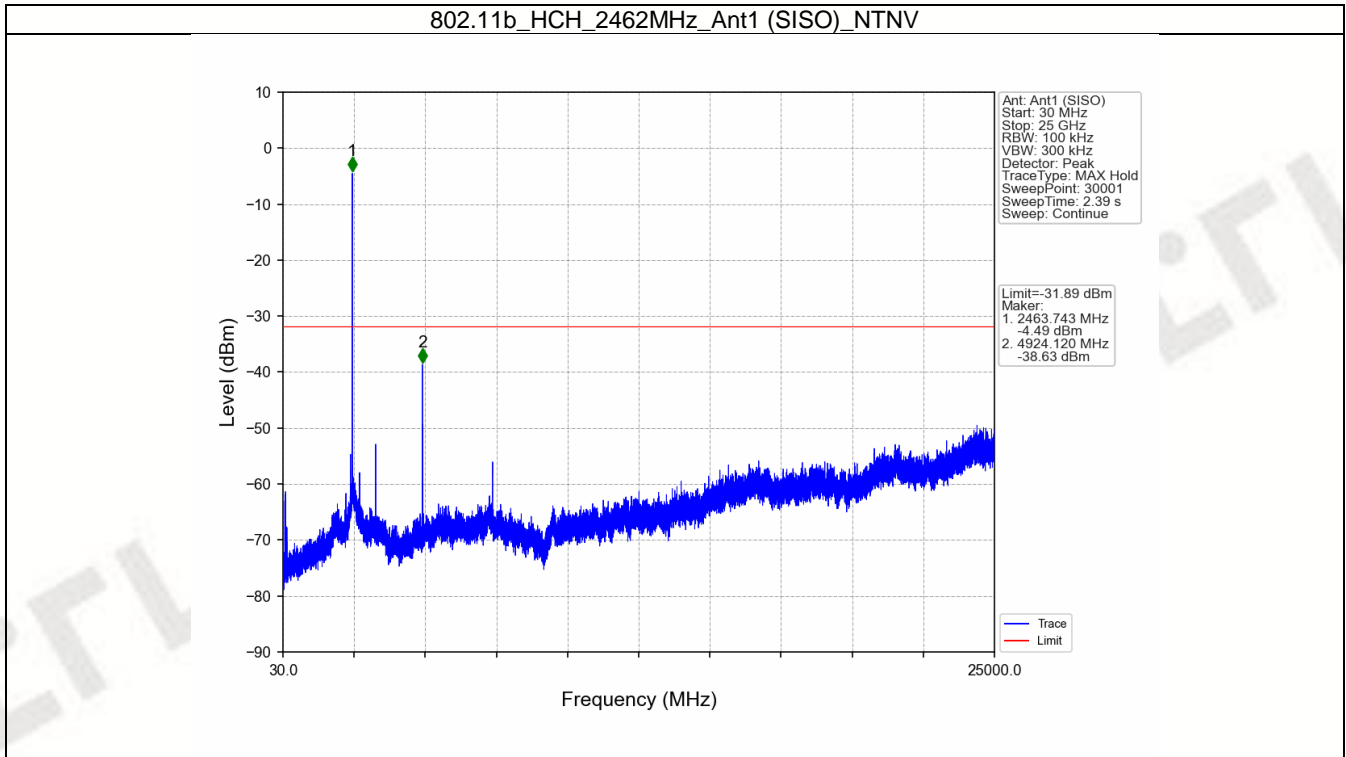
### 4.2.2 Test Graph



FCCID: 2AYM8-LHD2

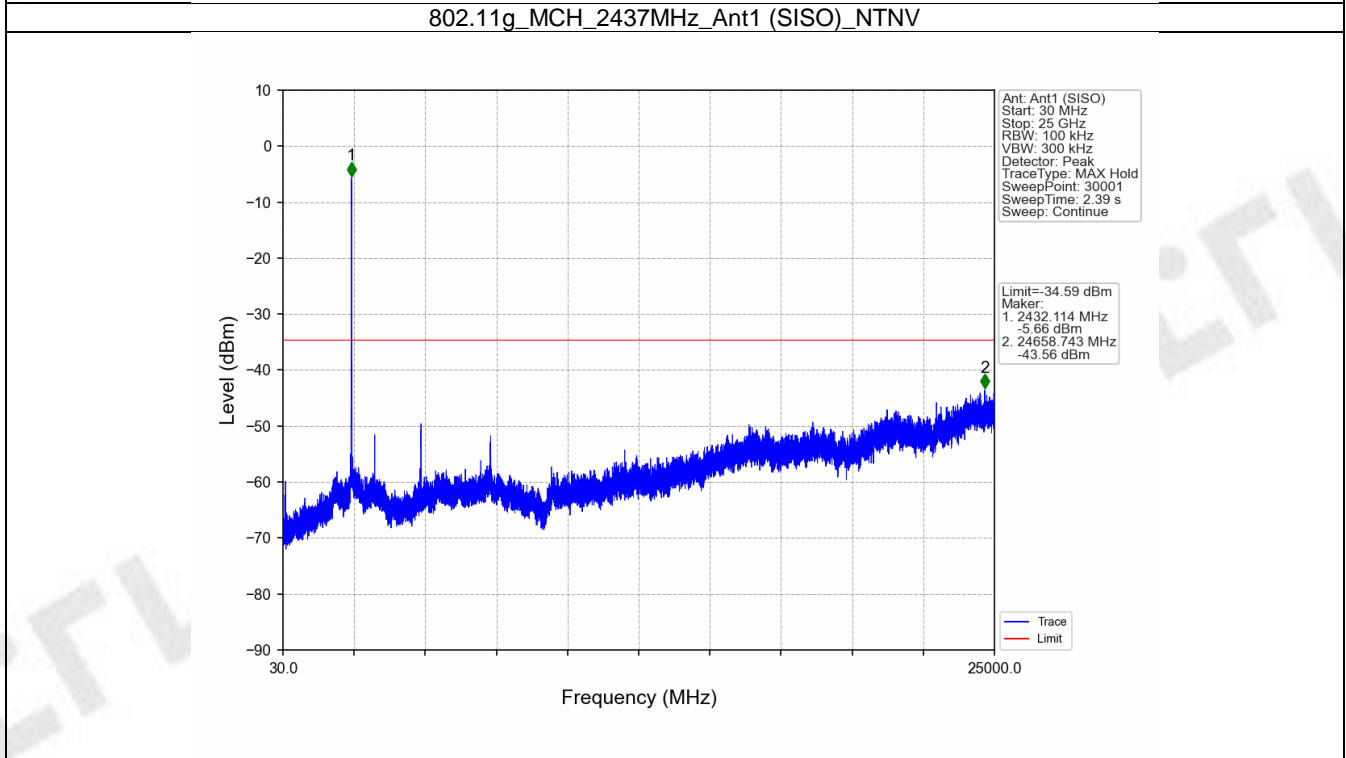
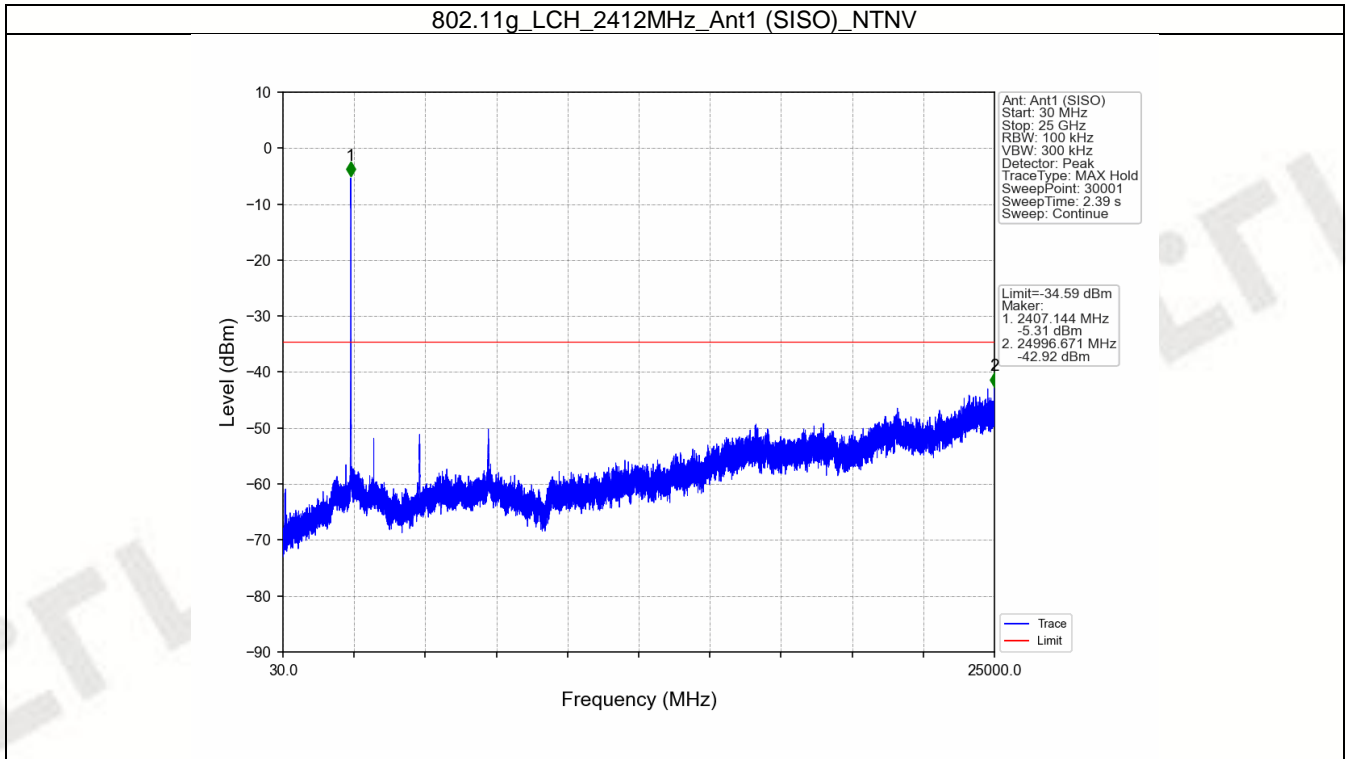


FCCID: 2AYM8-LHD2

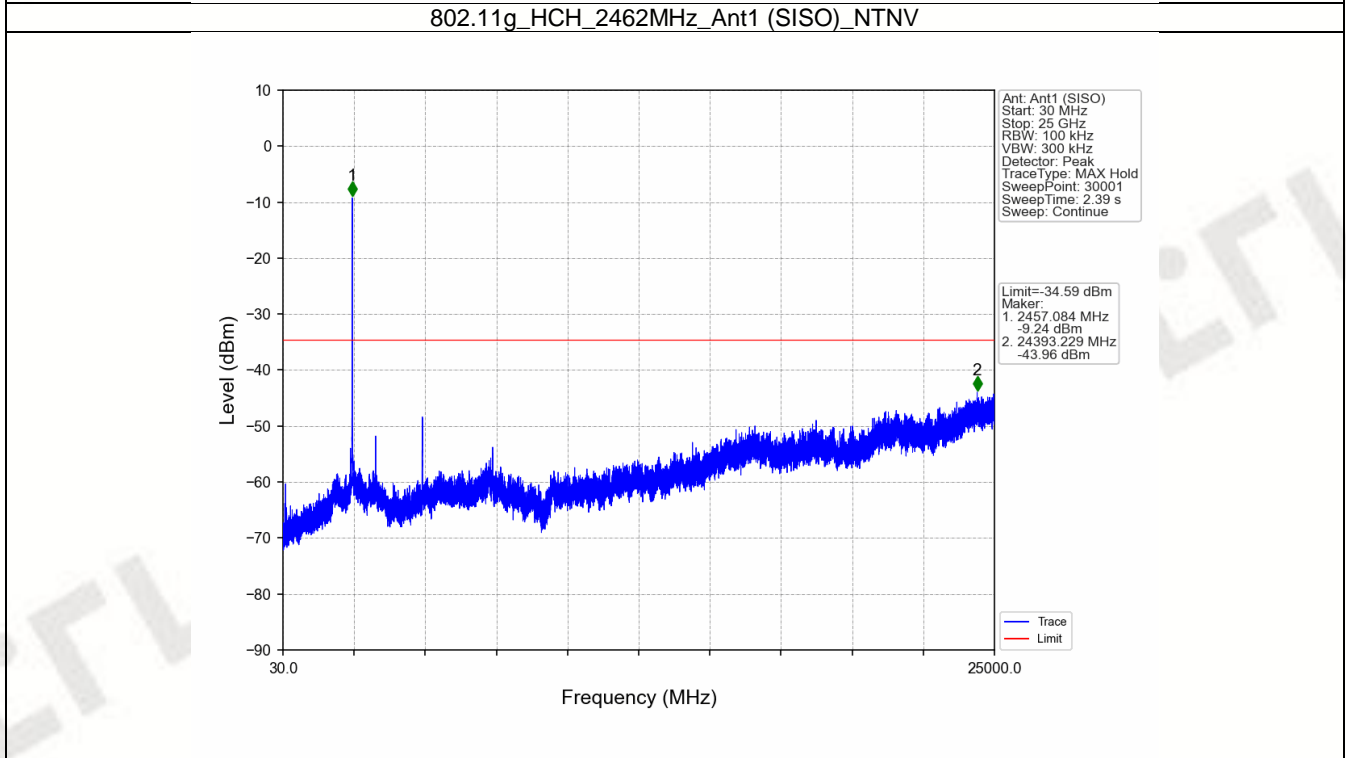
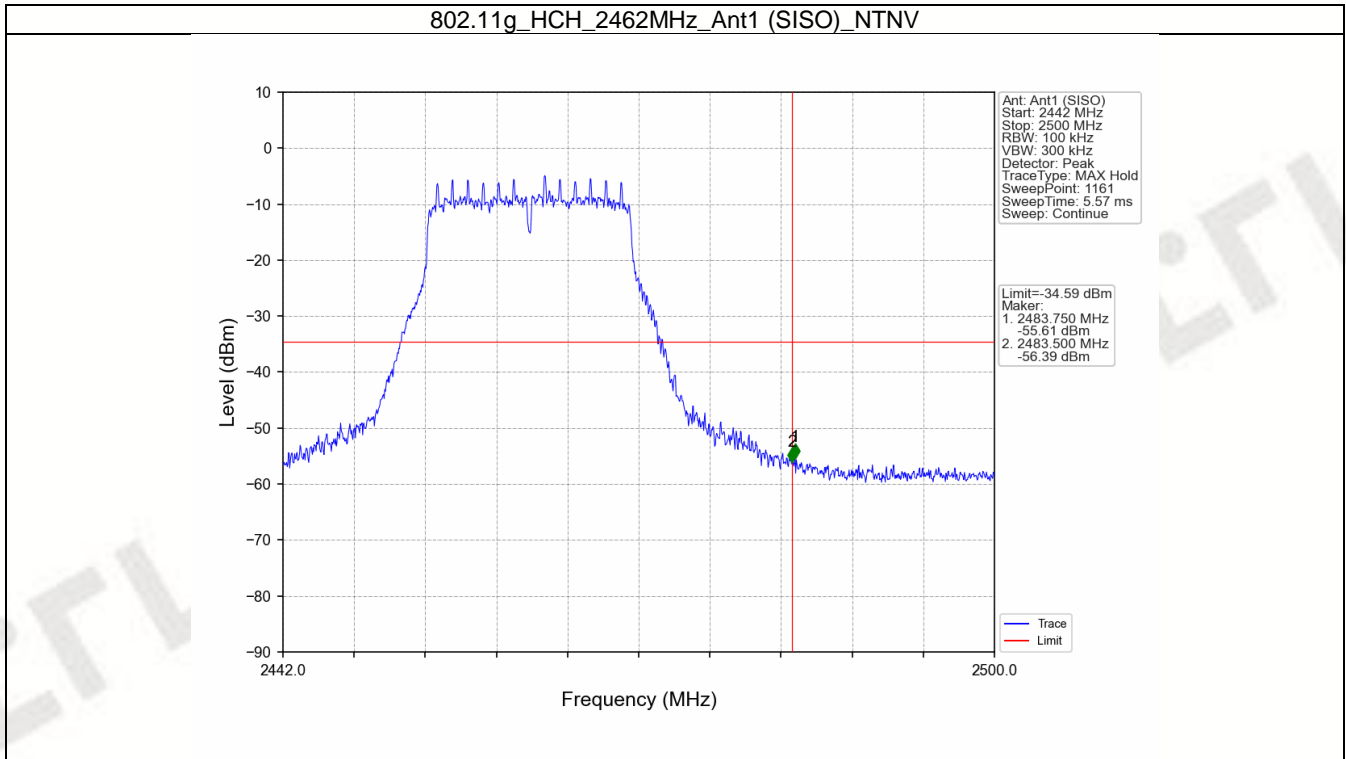




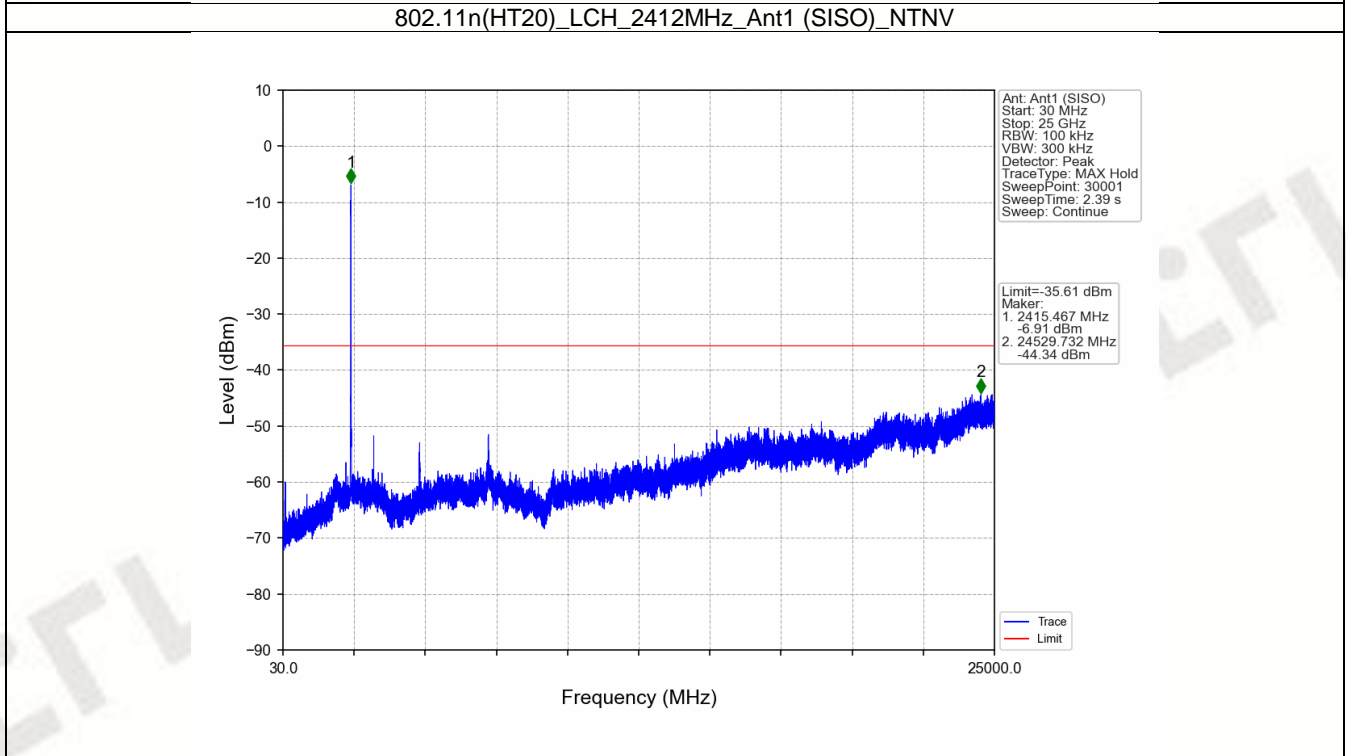
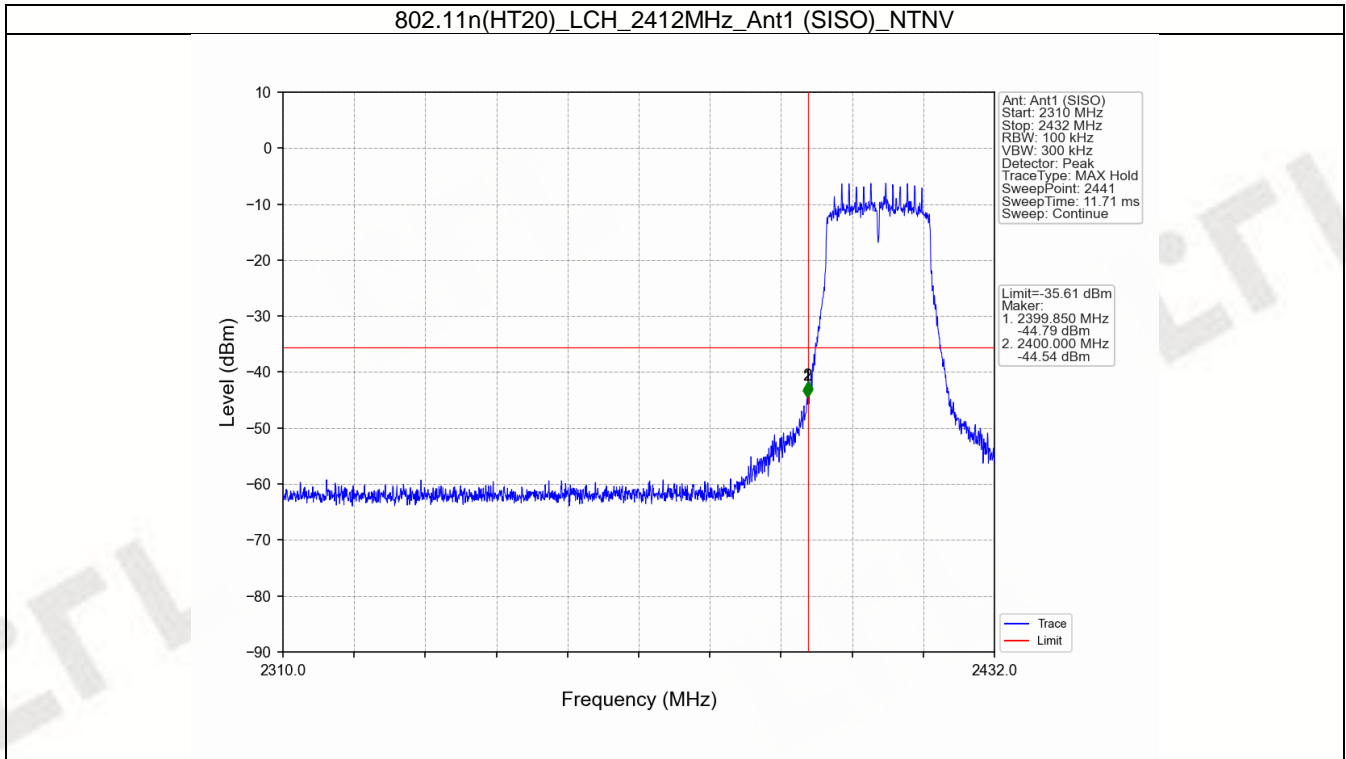
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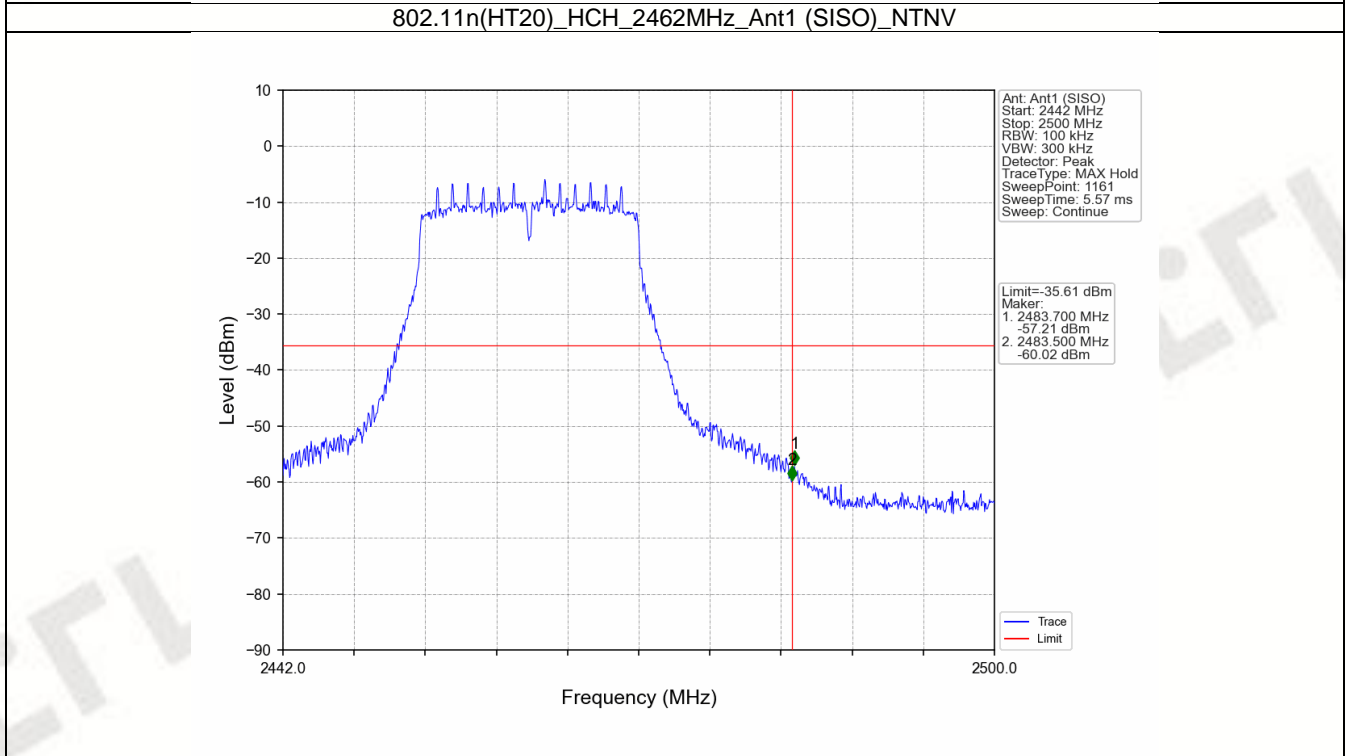
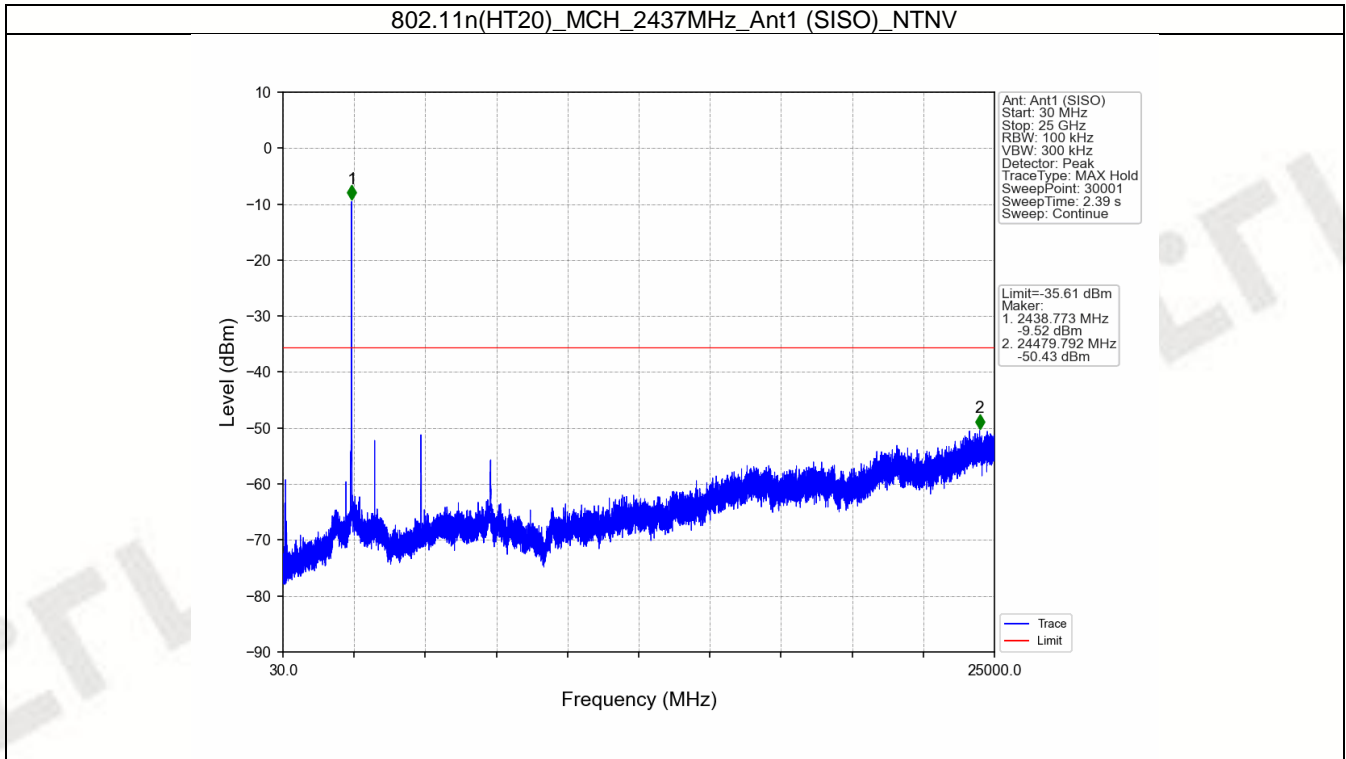
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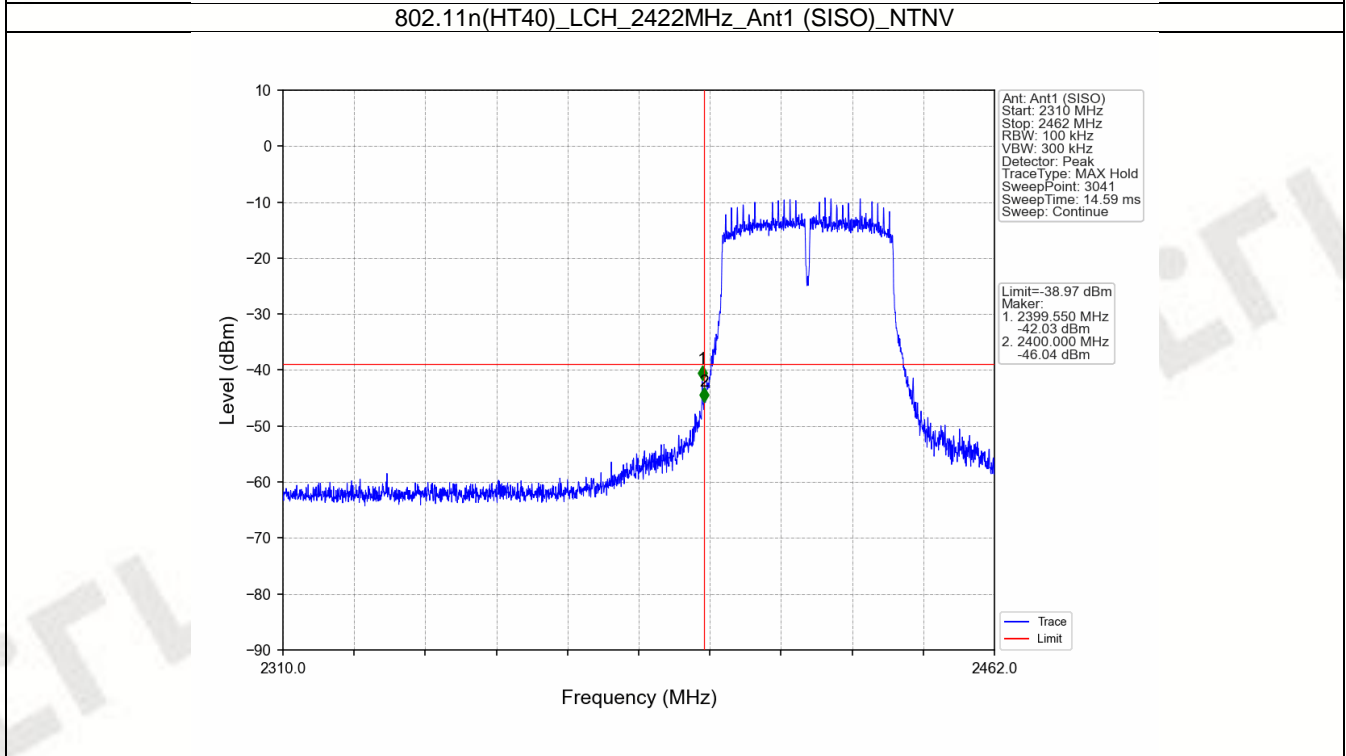
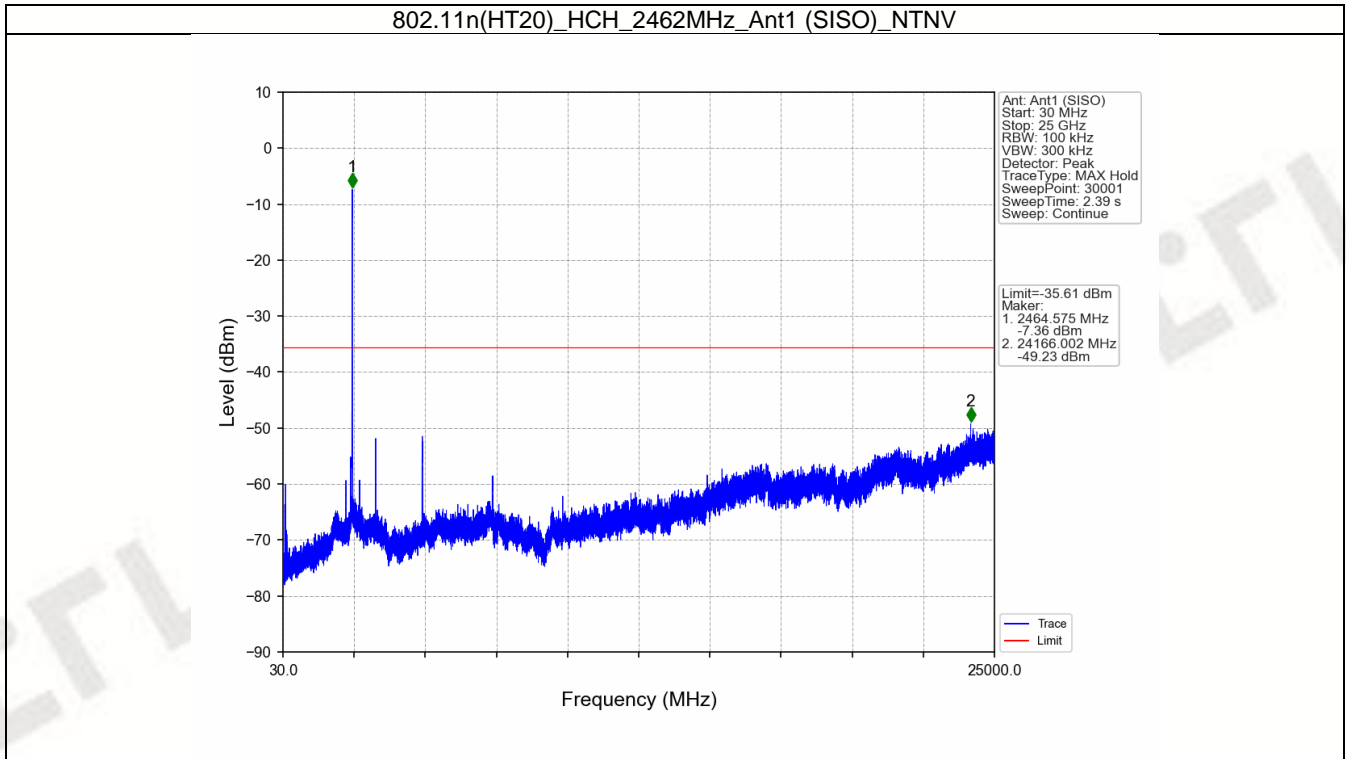
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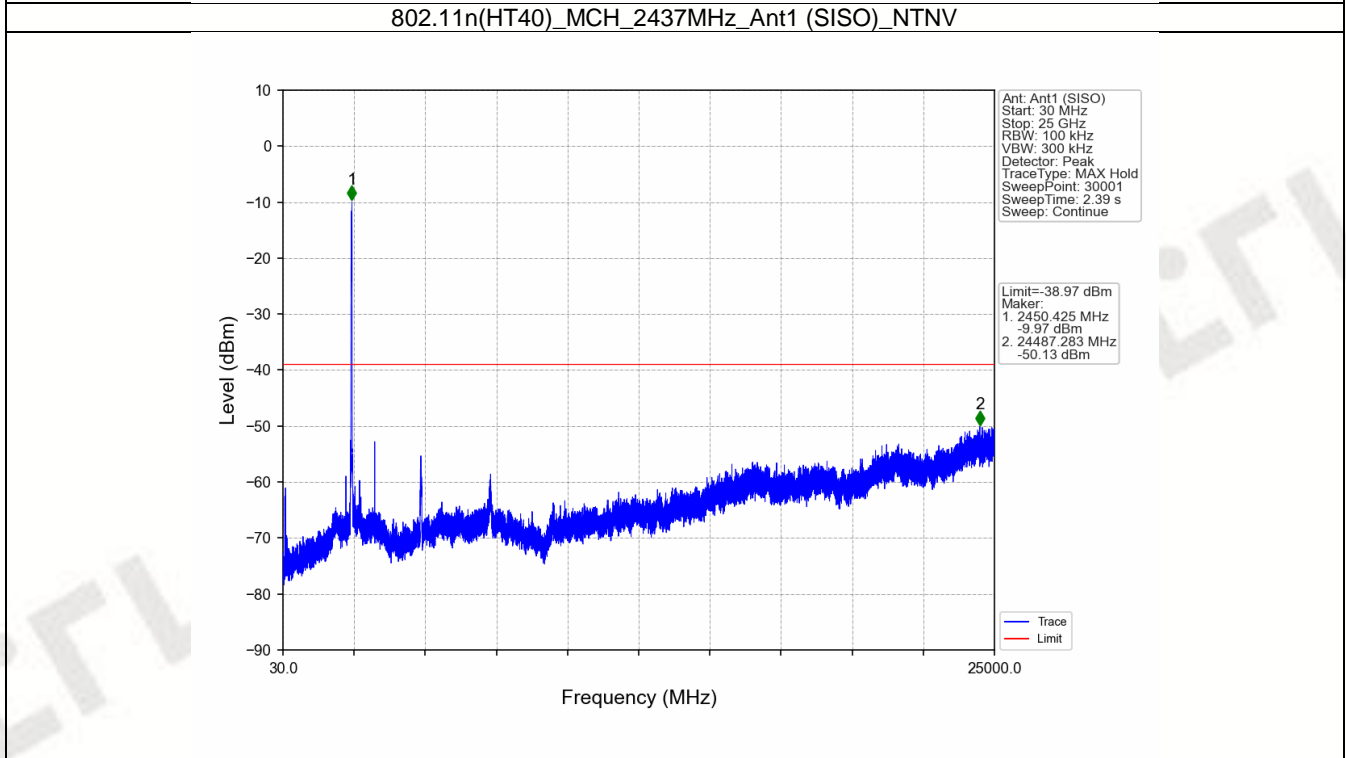
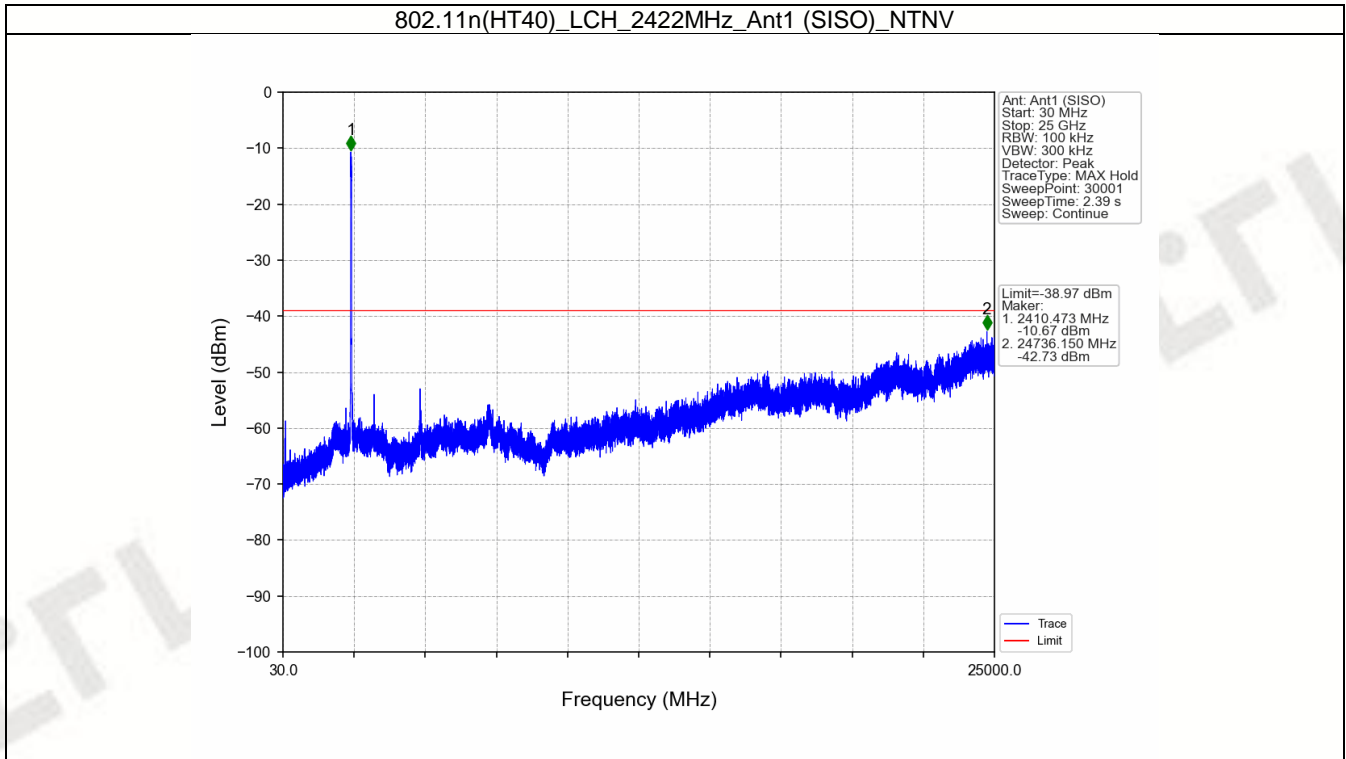


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