

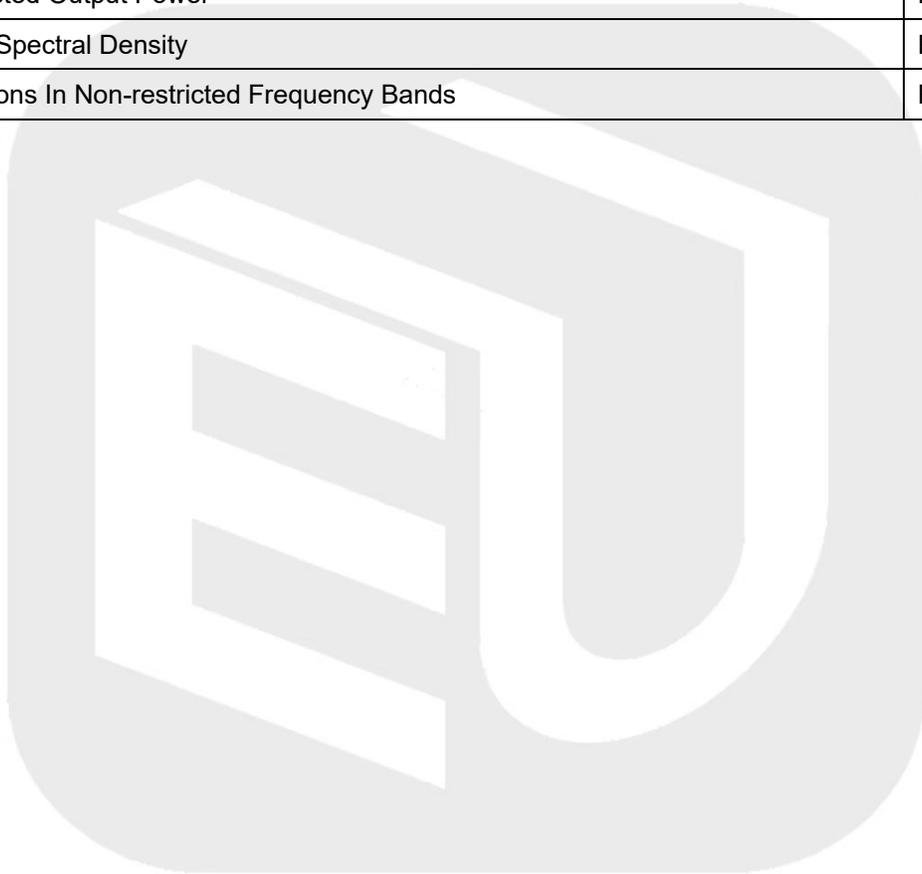
# ANNEX D TEST DATA

## For

Project No.:	8330EU120604W
Client:	Shenzhen Moldull Acoustic Technology Co.,Ltd.
Product Description:	Smart Sport Watch
Model No. Under Test:	MC013
List Model No.:	Y2
Model Description:	All the model are the same circuit and RF module, only the model names and colour are different. Test sample model: MC013
FCC ID:	2AXPW-MC013
Technology:	Bluetooth BLE
Test Engineer:	<i>Mikey zhu</i>
Test Date:	2025-05-15

## 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

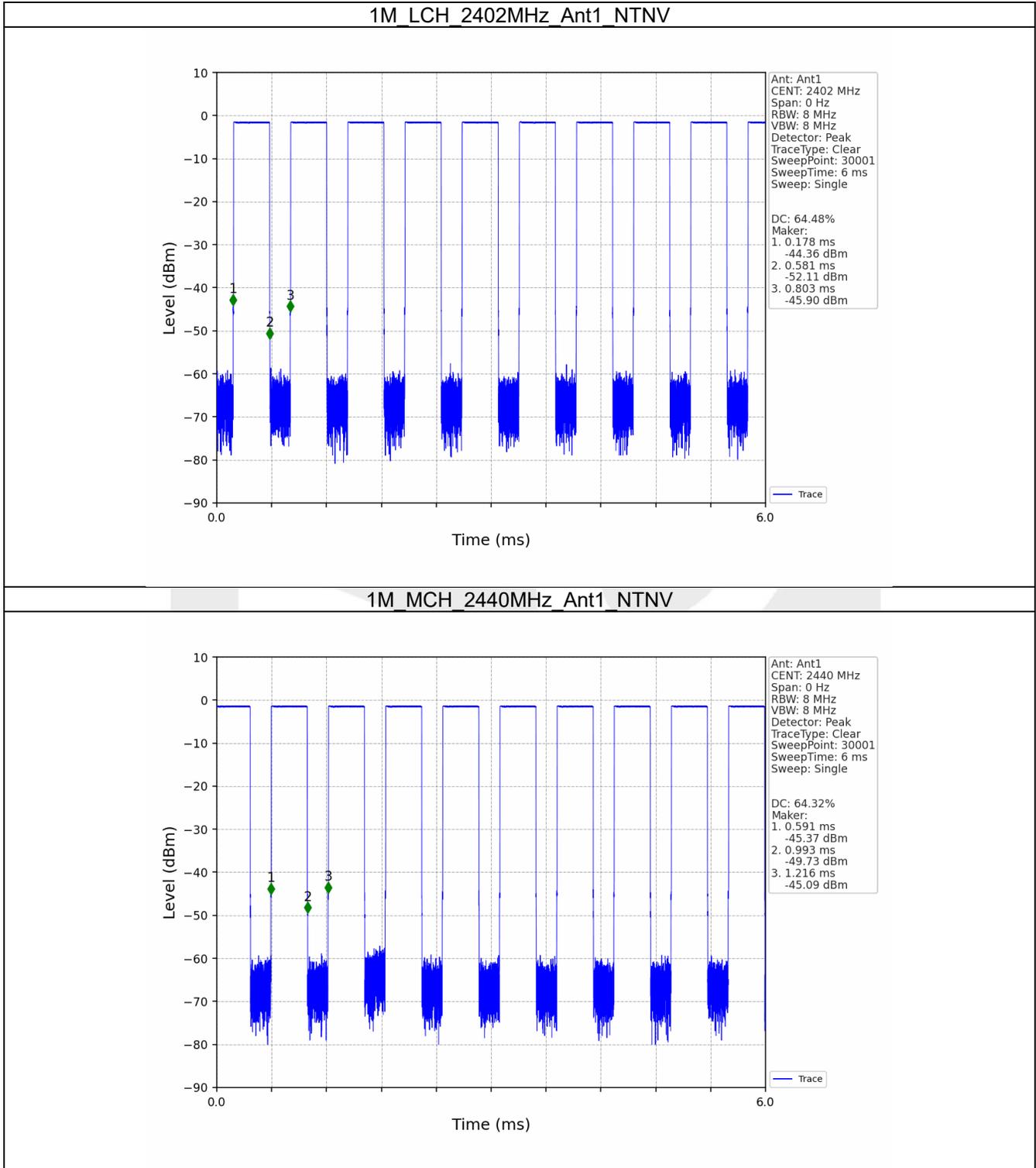
1.1 Test Result

1.1.1 Ant1

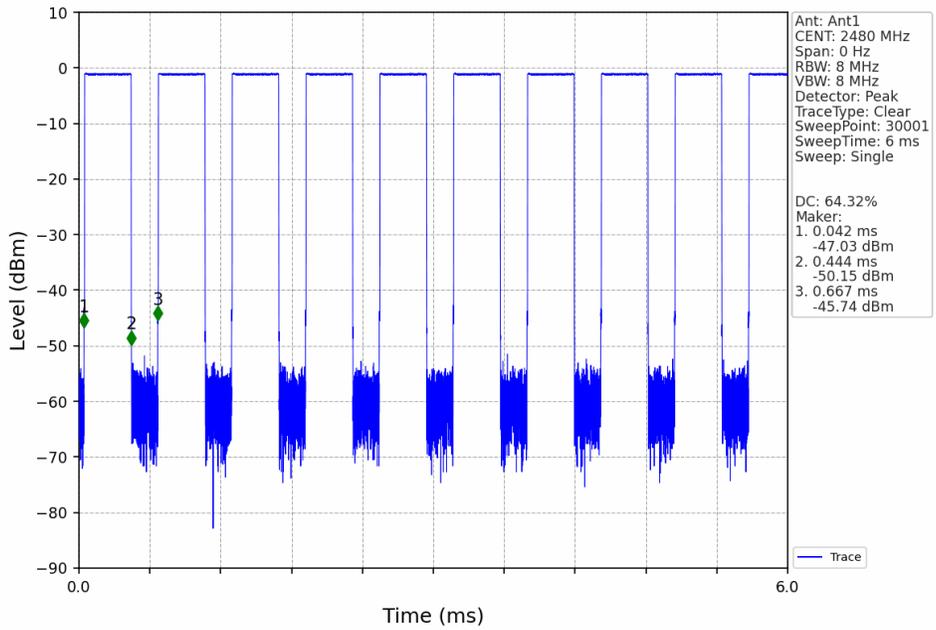
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.403	0.625	64.48	1.91	0.00
		2440	0.402	0.625	64.32	1.92	0.00
		2480	0.402	0.625	64.32	1.92	0.10
2M	SISO	2402	0.217	0.625	34.72	4.59	0.03
		2440	0.209	0.625	33.44	4.76	0.00
		2480	0.209	0.625	33.44	4.76	0.00

1.2 Test Graph

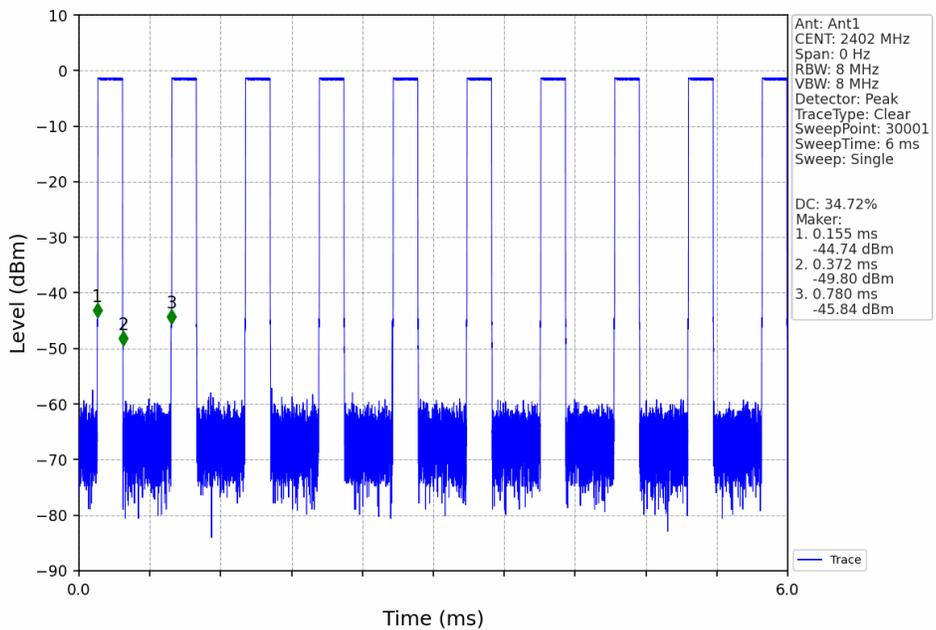
1.2.1 Ant1



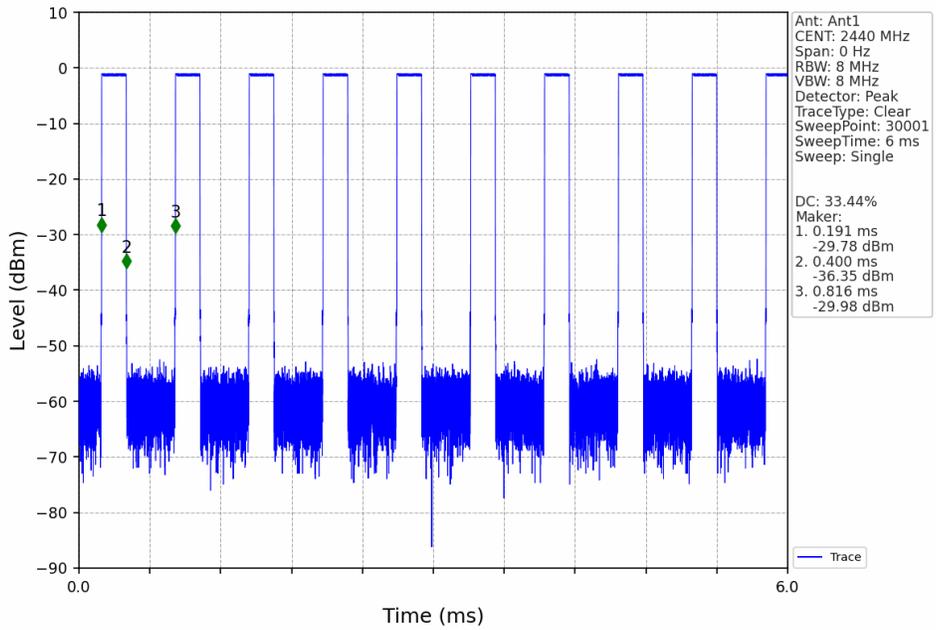
1M\_HCH\_2480MHz\_Ant1\_NTNV



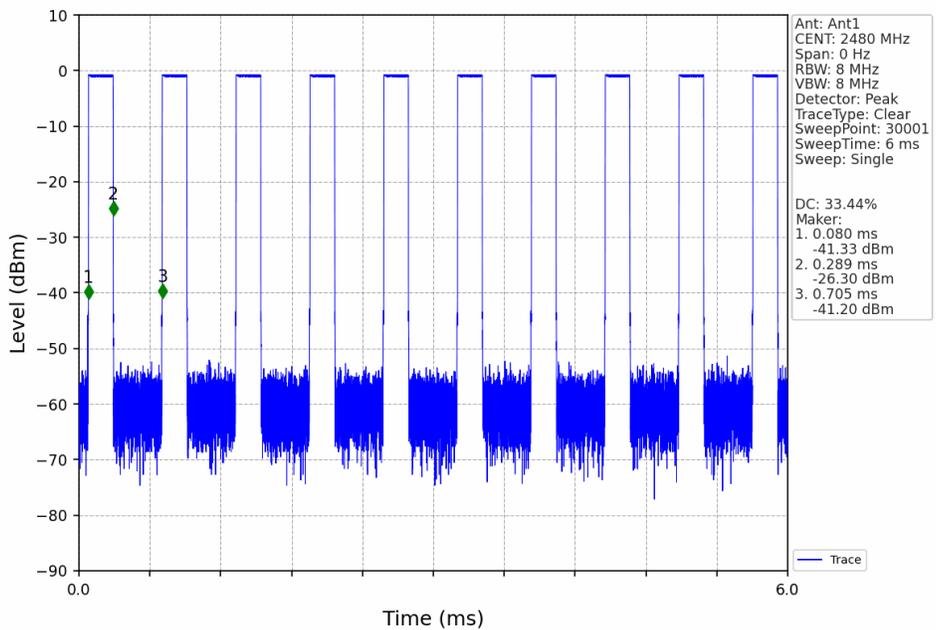
2M\_LCH\_2402MHz\_Ant1\_NTNV



2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

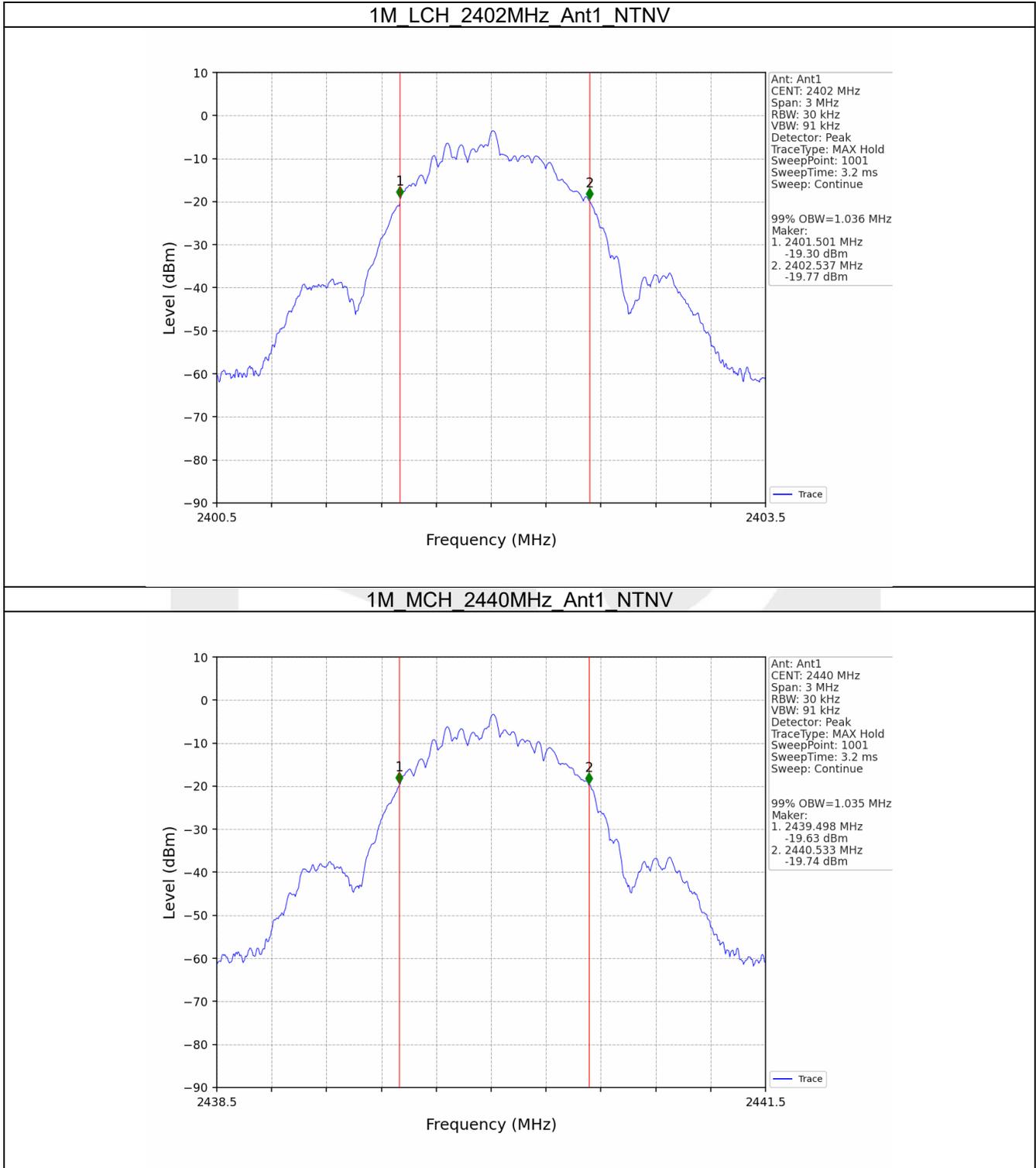
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.036	/	Pass
		2440	1	1.035	/	Pass
		2480	1	1.025	/	Pass
2M	SISO	2402	1	2.077	/	Pass
		2440	1	2.067	/	Pass
		2480	1	2.071	/	Pass

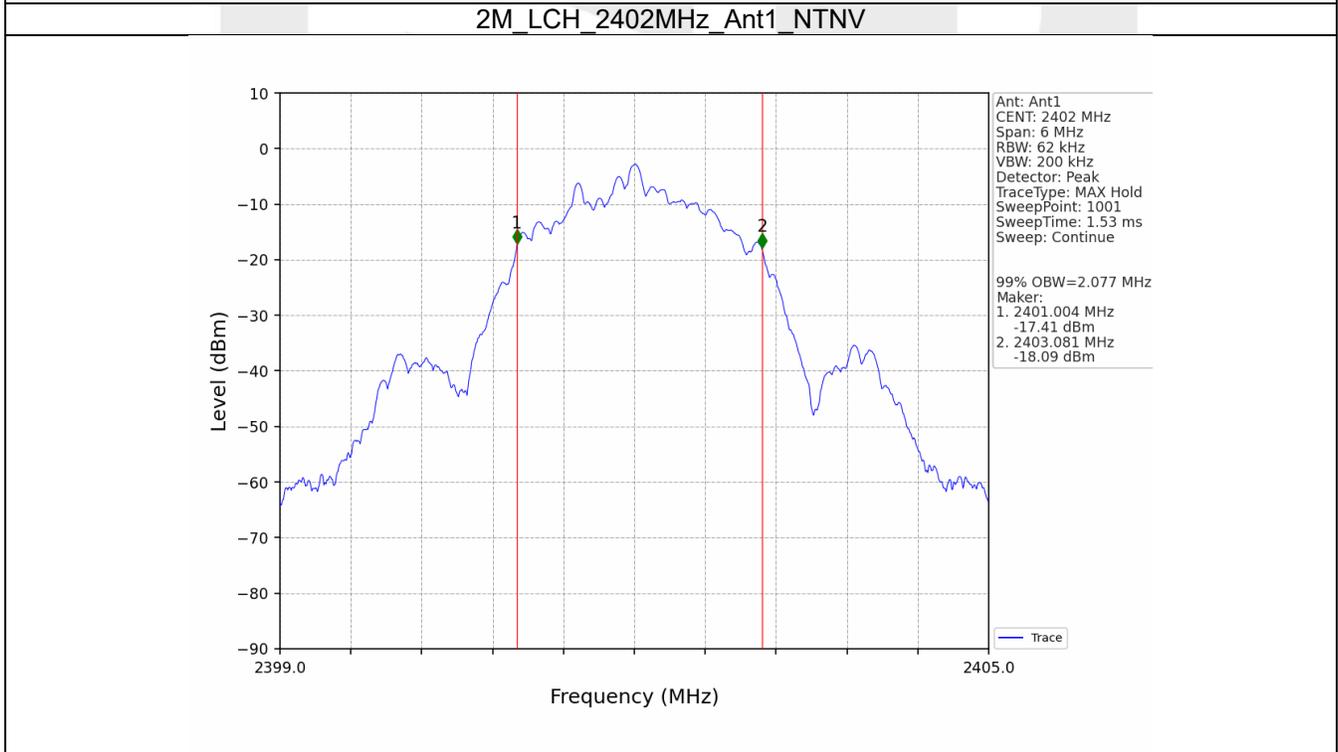
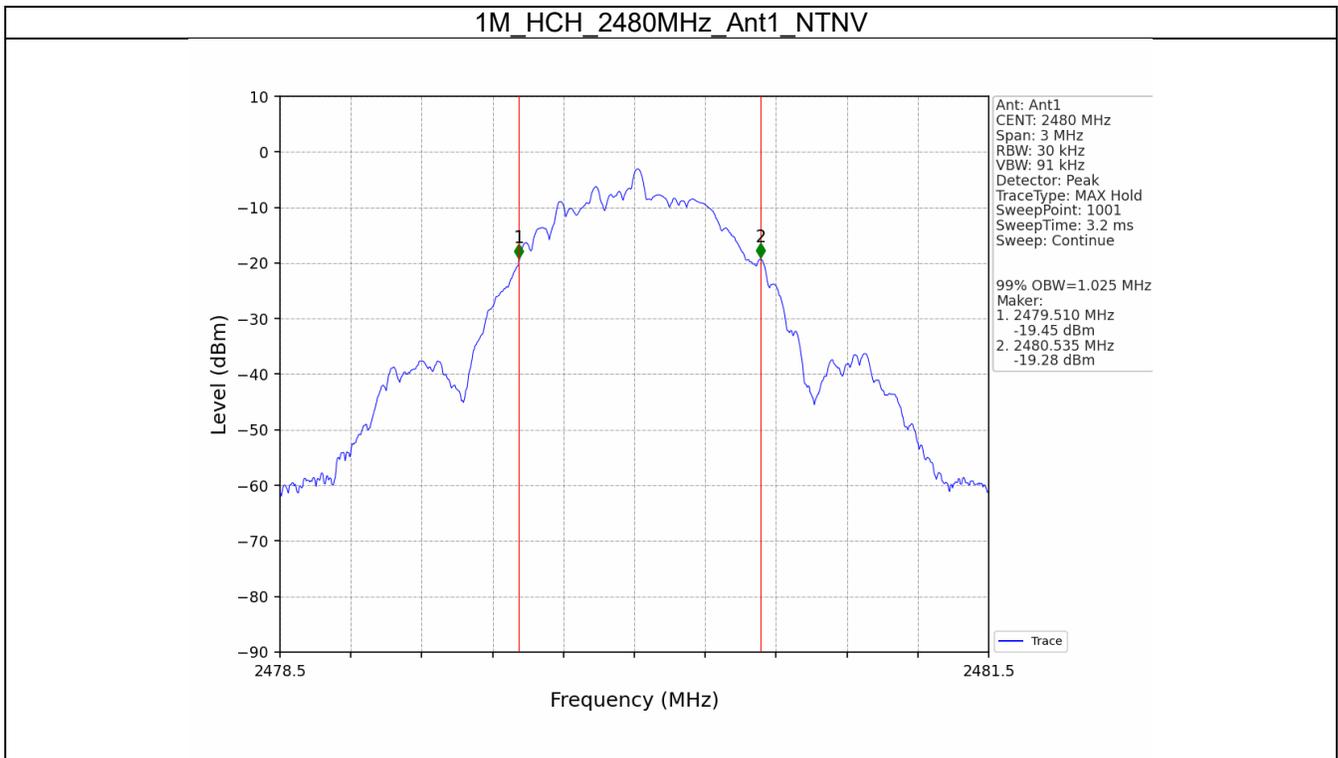
2.1.2 6dB BW

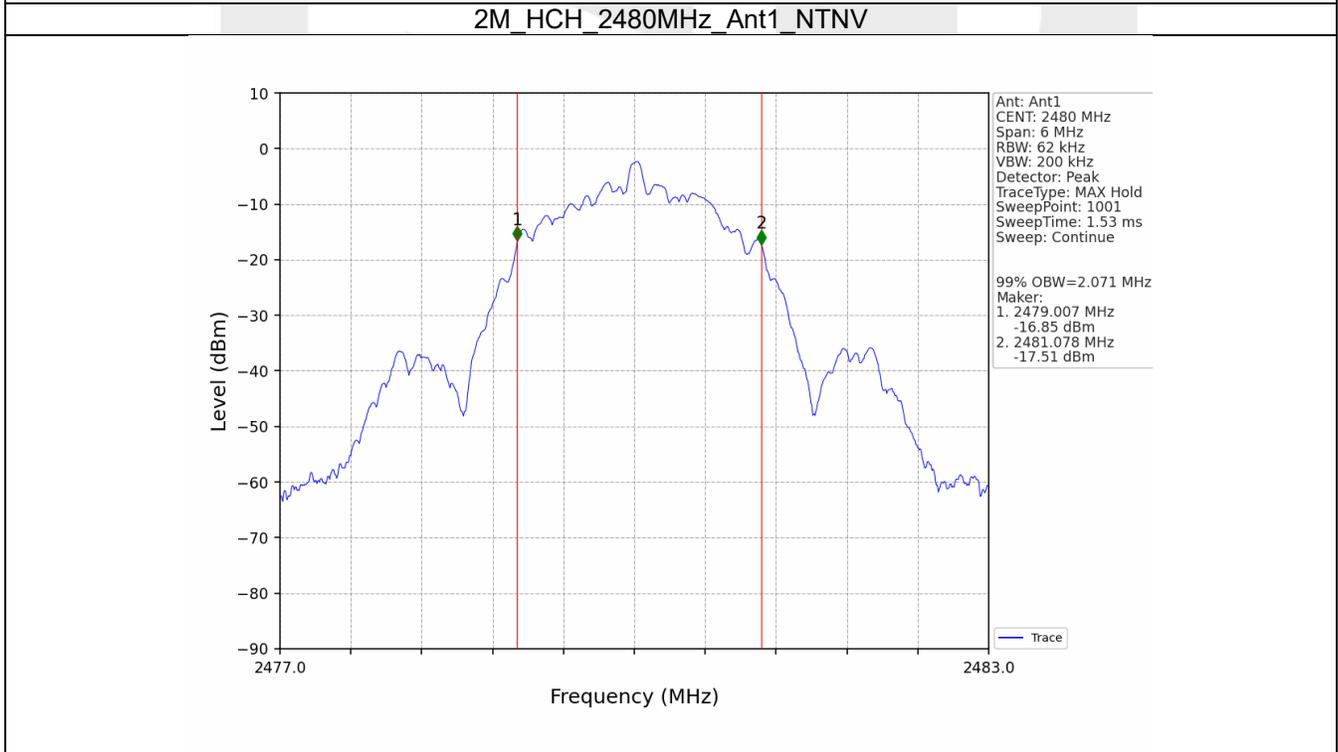
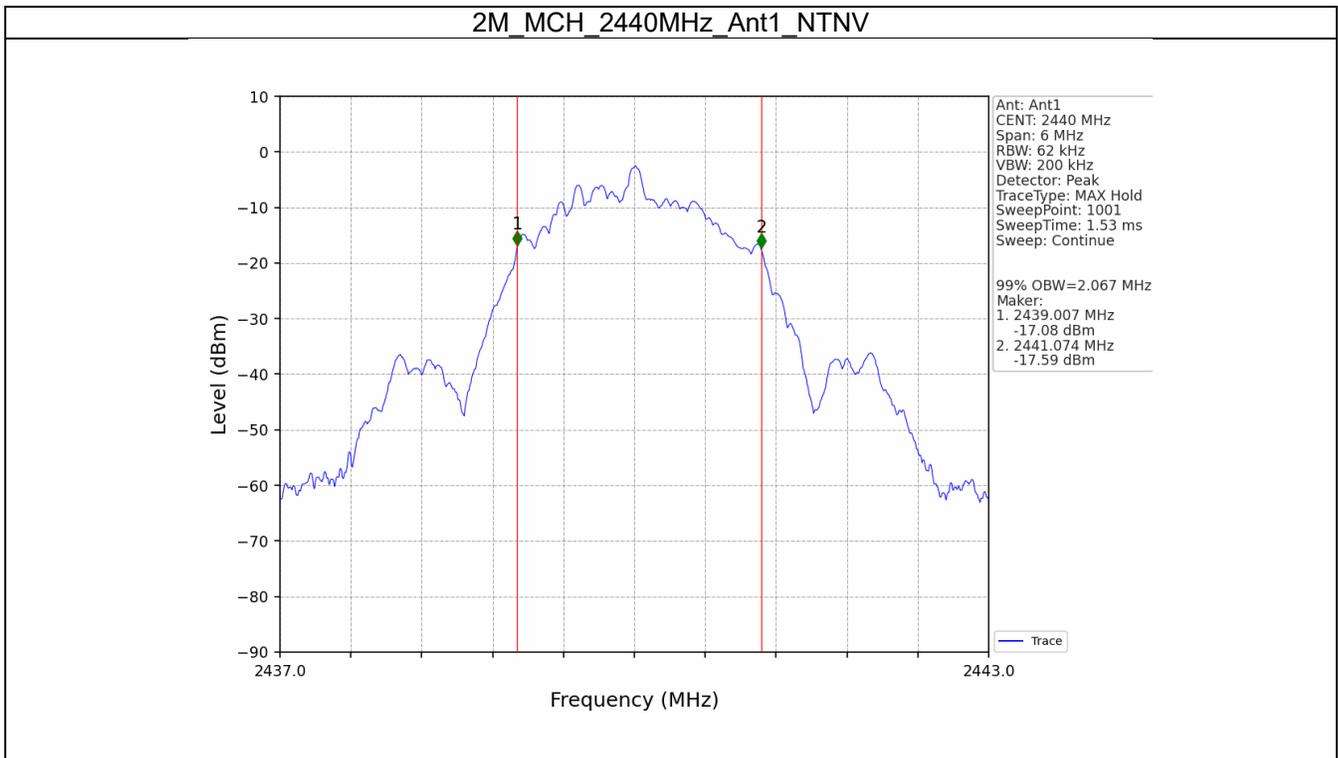
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.664	>=0.5	Pass
		2440	1	0.668	>=0.5	Pass
		2480	1	0.662	>=0.5	Pass
2M	SISO	2402	1	1.095	>=0.5	Pass
		2440	1	1.113	>=0.5	Pass
		2480	1	1.139	>=0.5	Pass

2.2 Test Graph

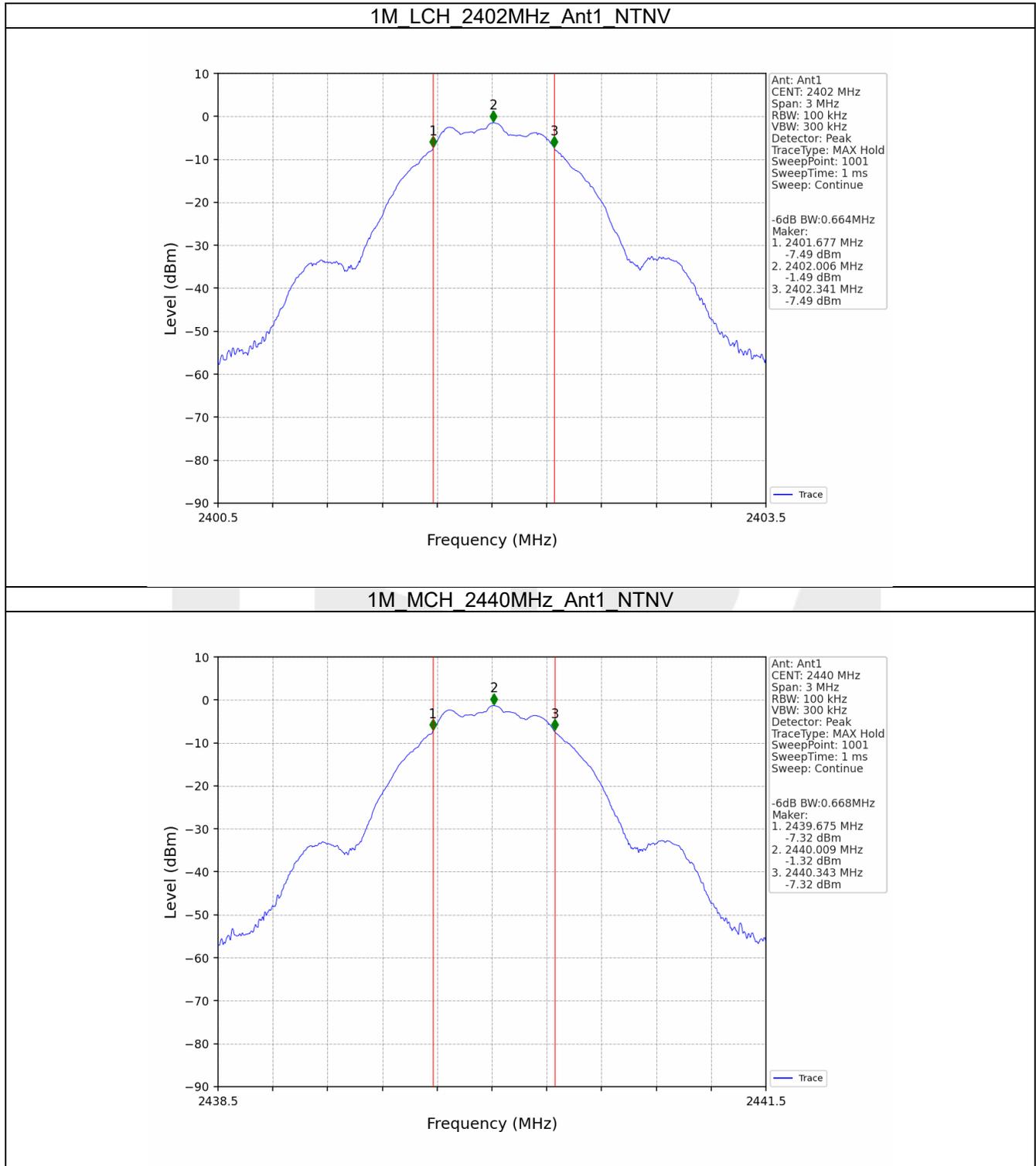
2.2.1 OBW

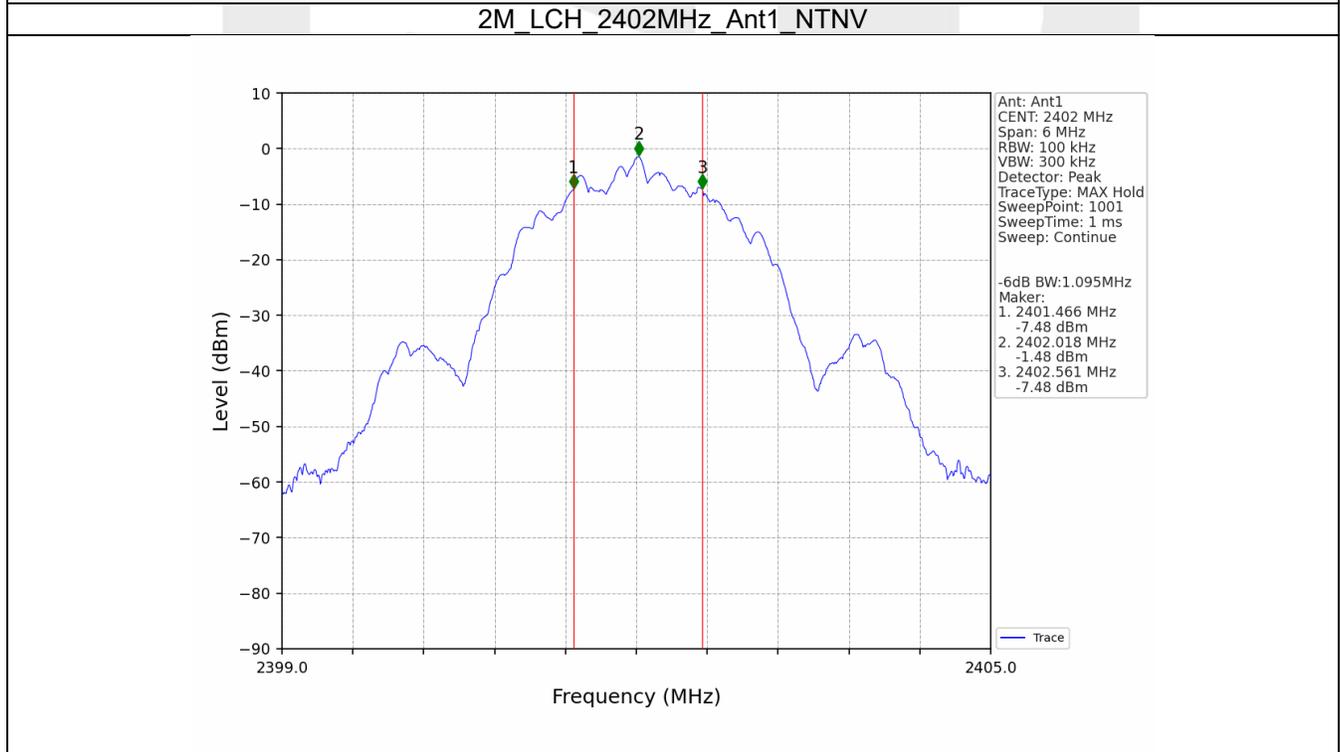
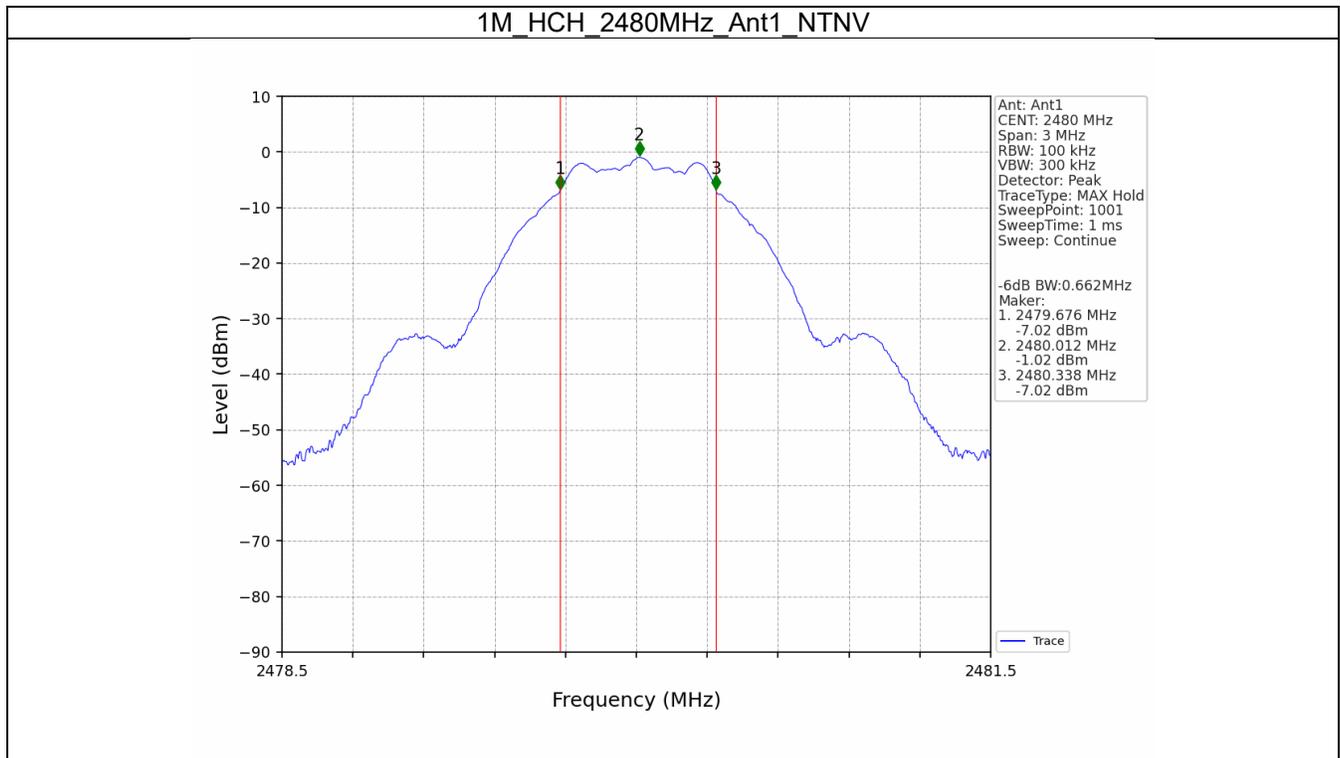


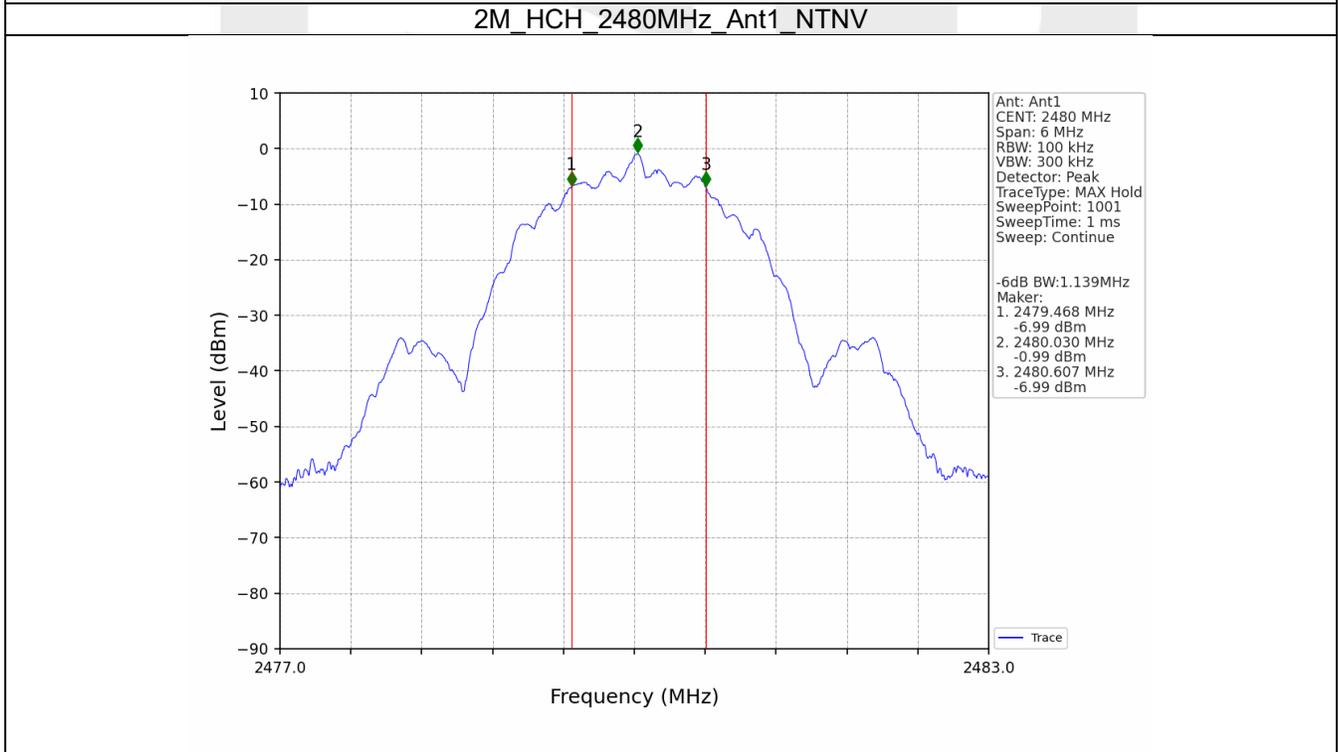
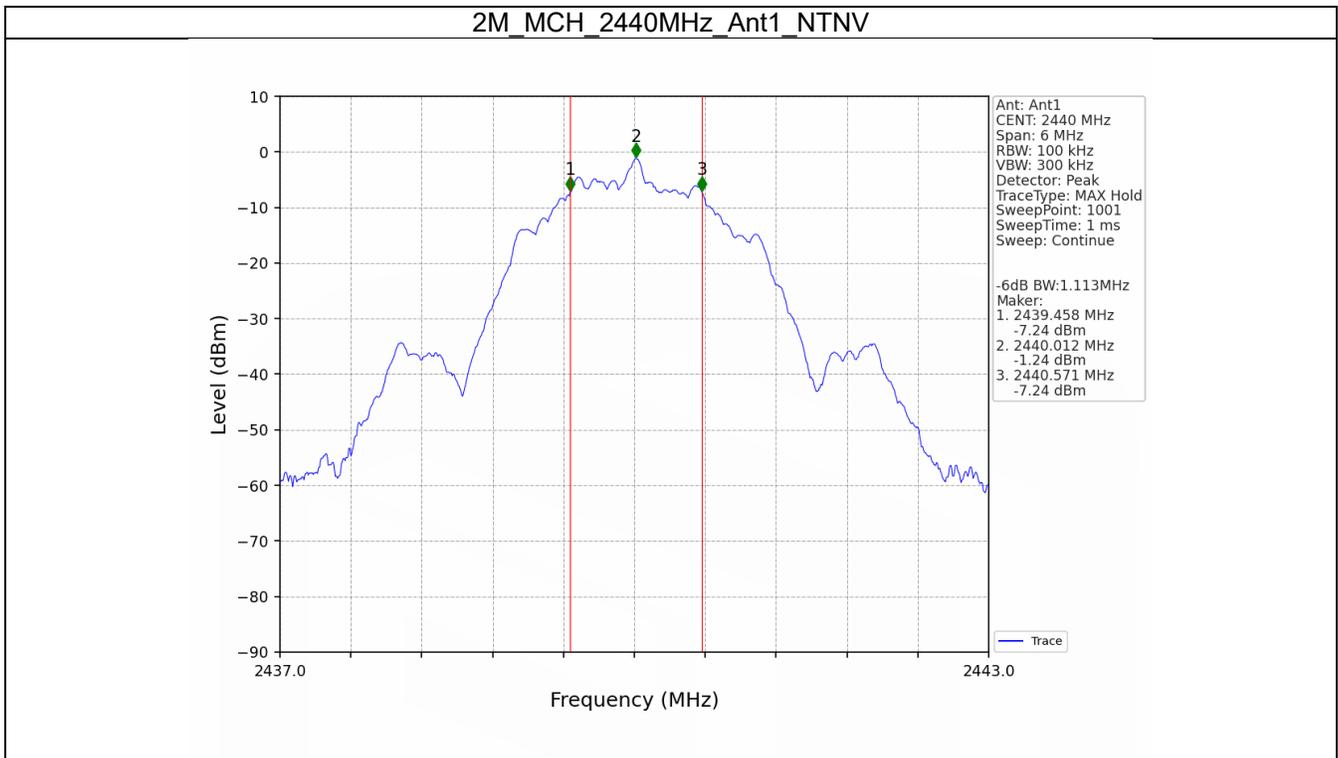




2.2.2 6dB BW







### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.44	<=30	Pass
		2440	-1.28	<=30	Pass
		2480	-0.96	<=30	Pass
2M	SISO	2402	-1.25	<=30	Pass
		2440	-1.04	<=30	Pass
		2480	-0.72	<=30	Pass

#### 4. Maximum Power Spectral Density

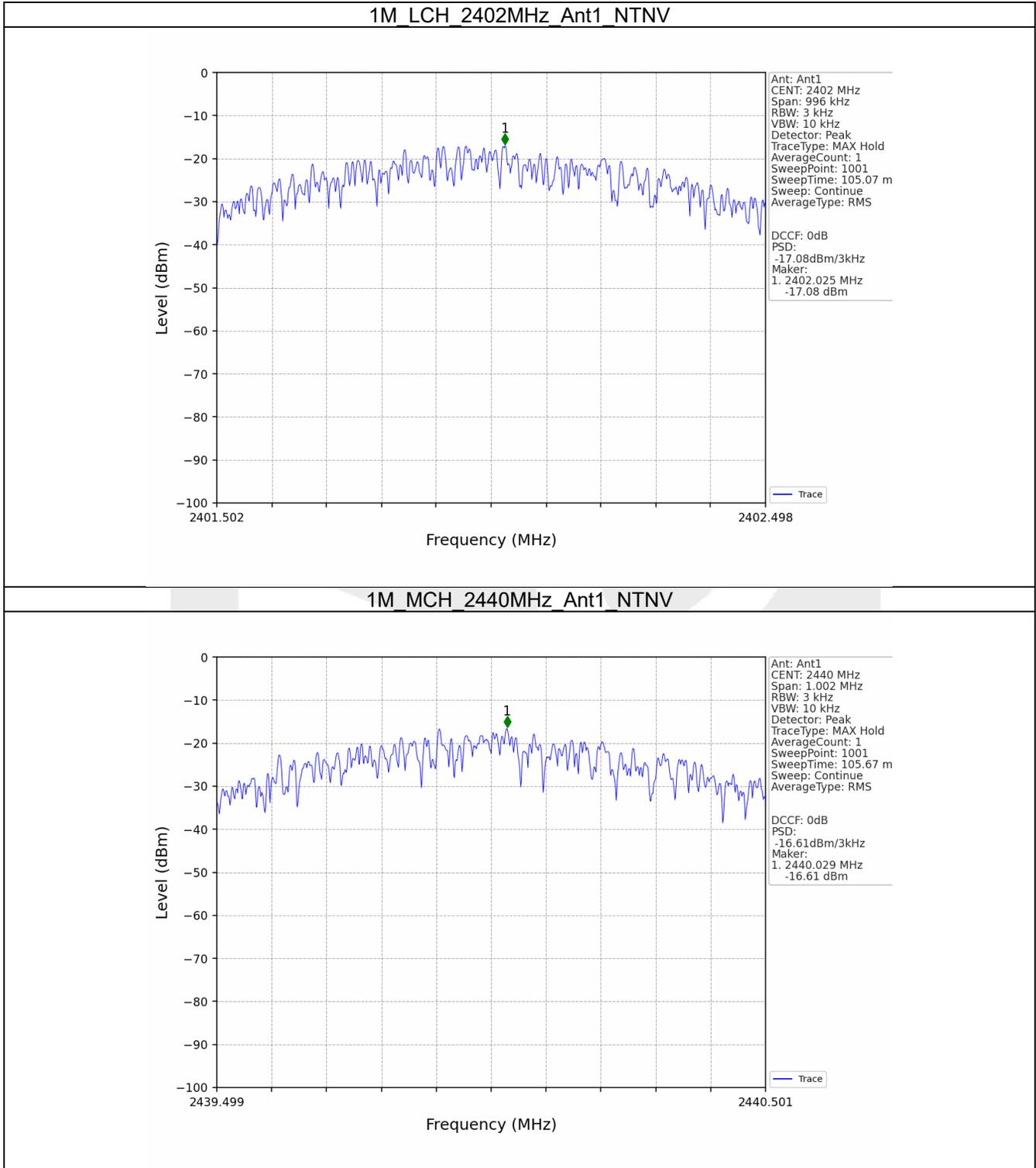
##### 4.1 Test Result

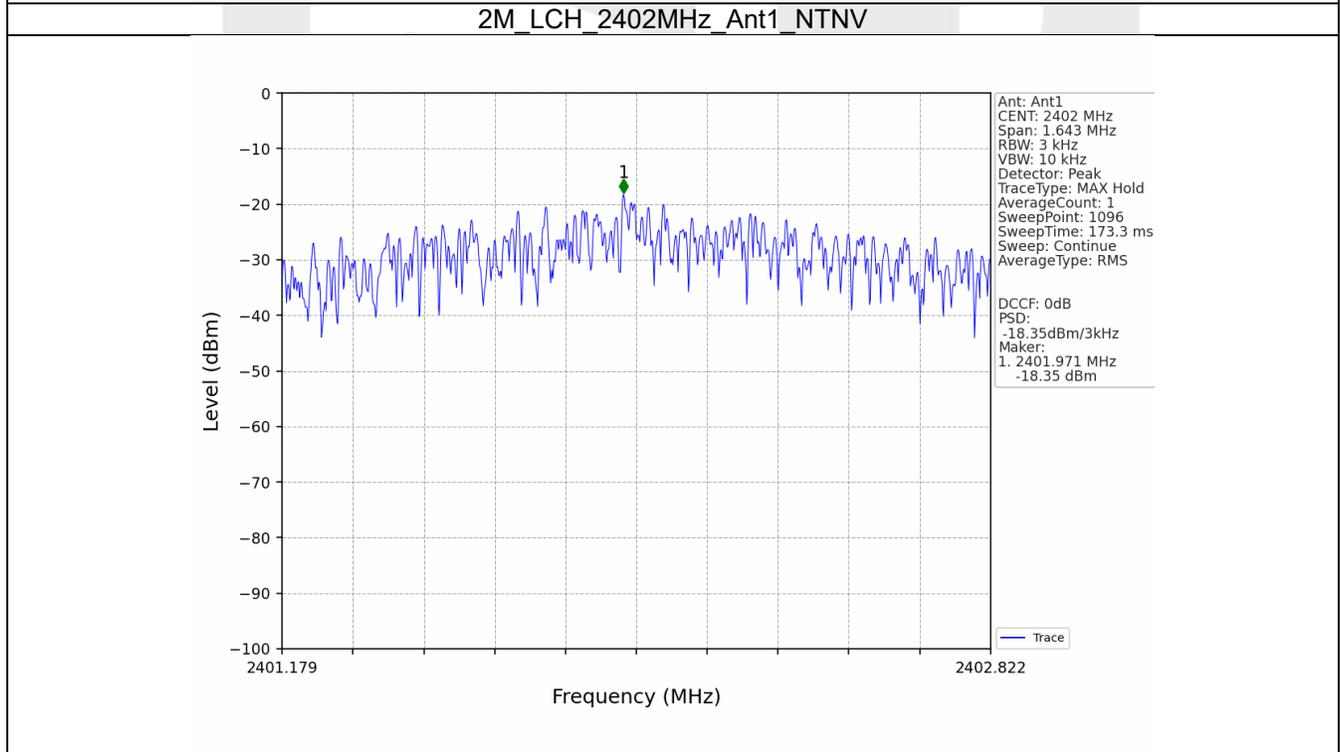
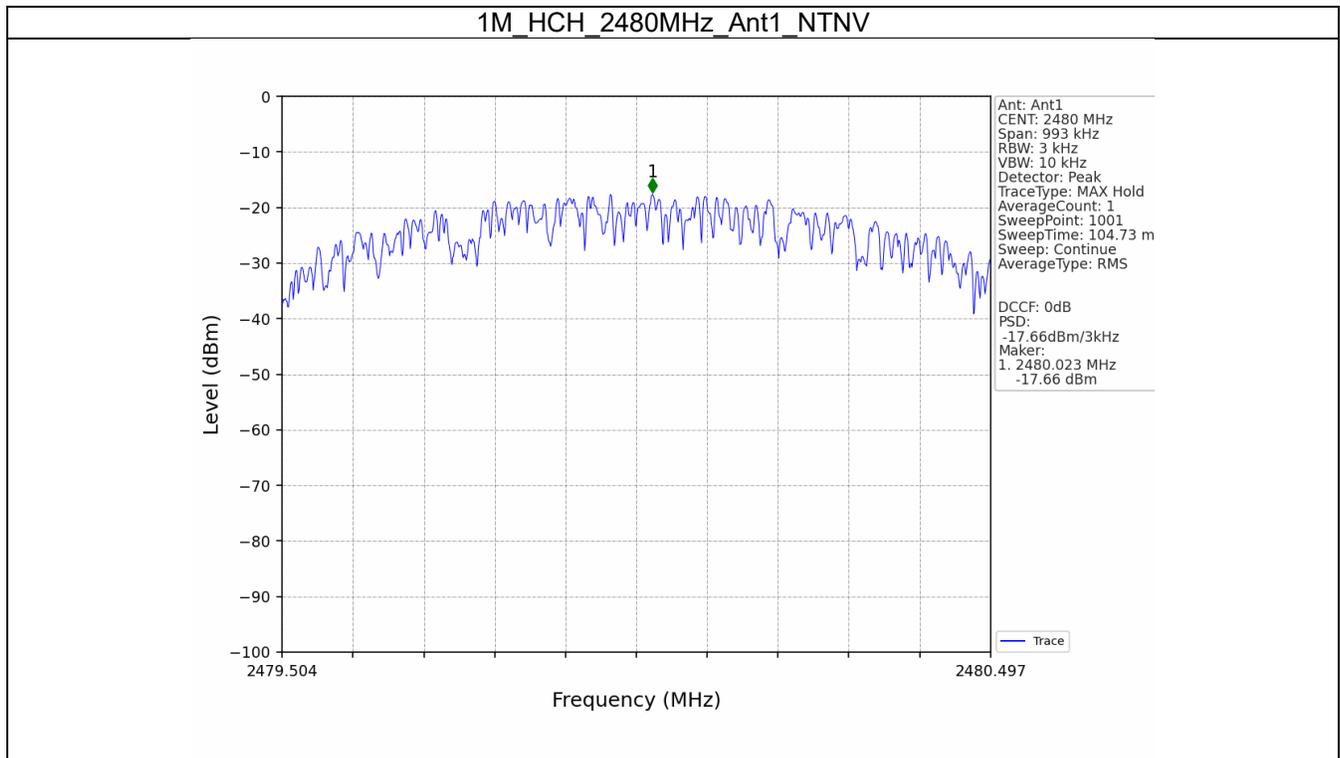
##### 4.1.1 PSD

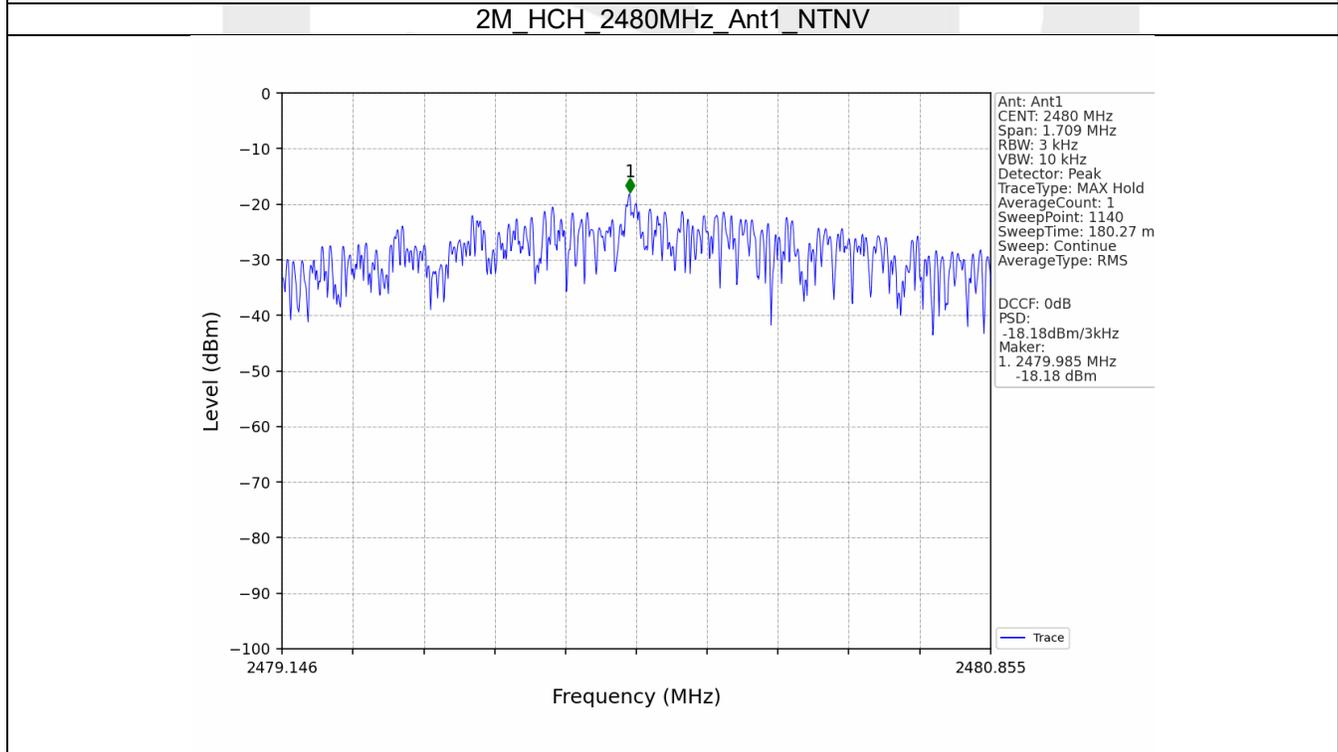
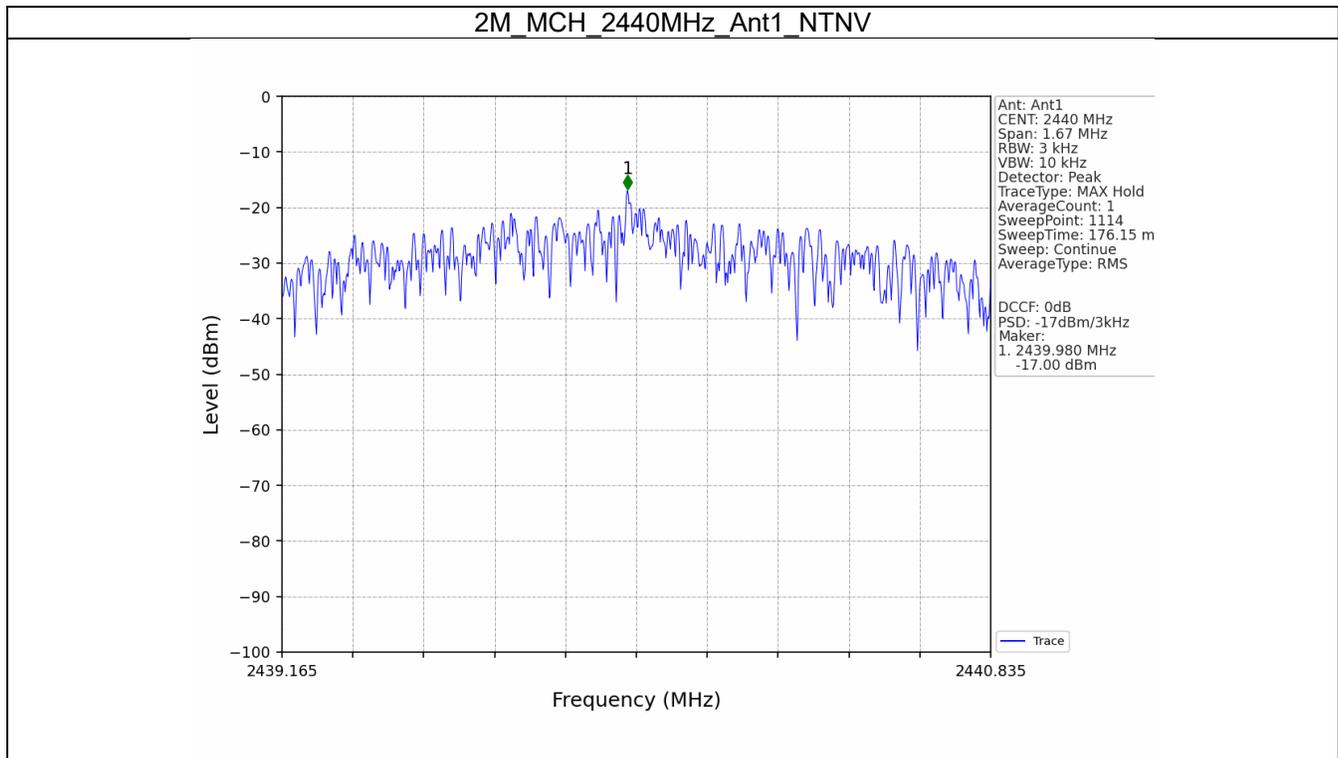
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.08	<=8	Pass
		2440	-16.61	<=8	Pass
		2480	-17.66	<=8	Pass
2M	SISO	2402	-18.35	<=8	Pass
		2440	-17.00	<=8	Pass
		2480	-18.18	<=8	Pass

## 4.2 Test Graph

### 4.2.1 PSD







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

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.55
		2440	1	-1.37
		2480	1	-1.04
2M	SISO	2402	1	-1.45
		2440	1	-1.23
		2480	1	-0.91

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.

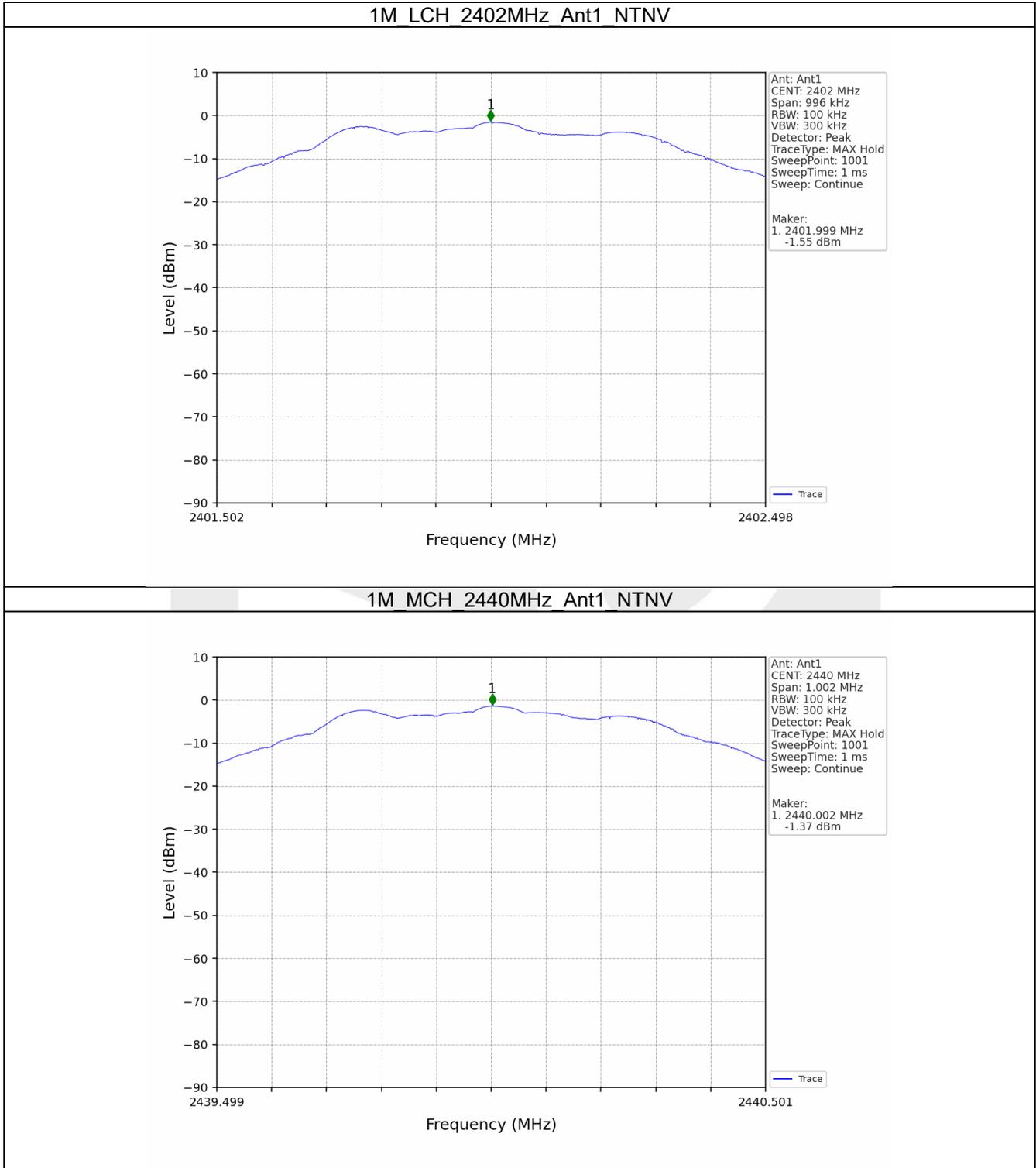
#### 5.1.2 CSE

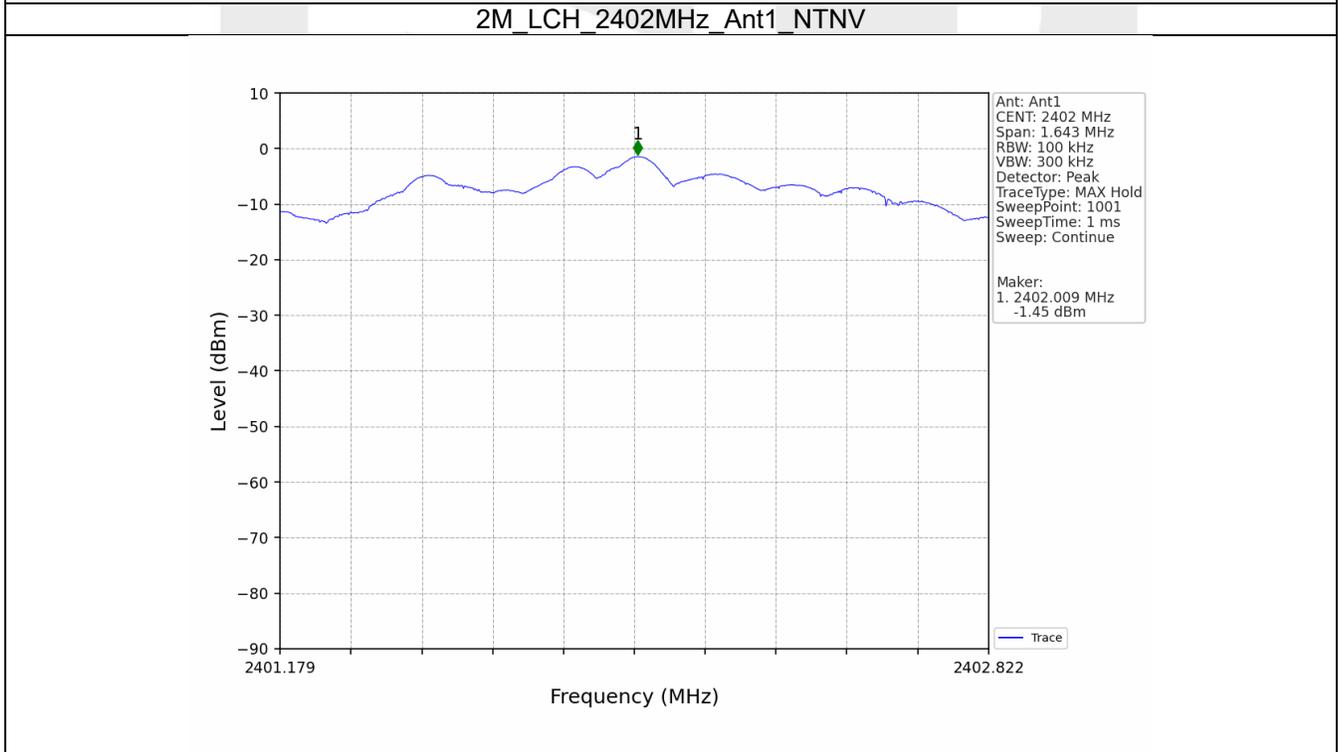
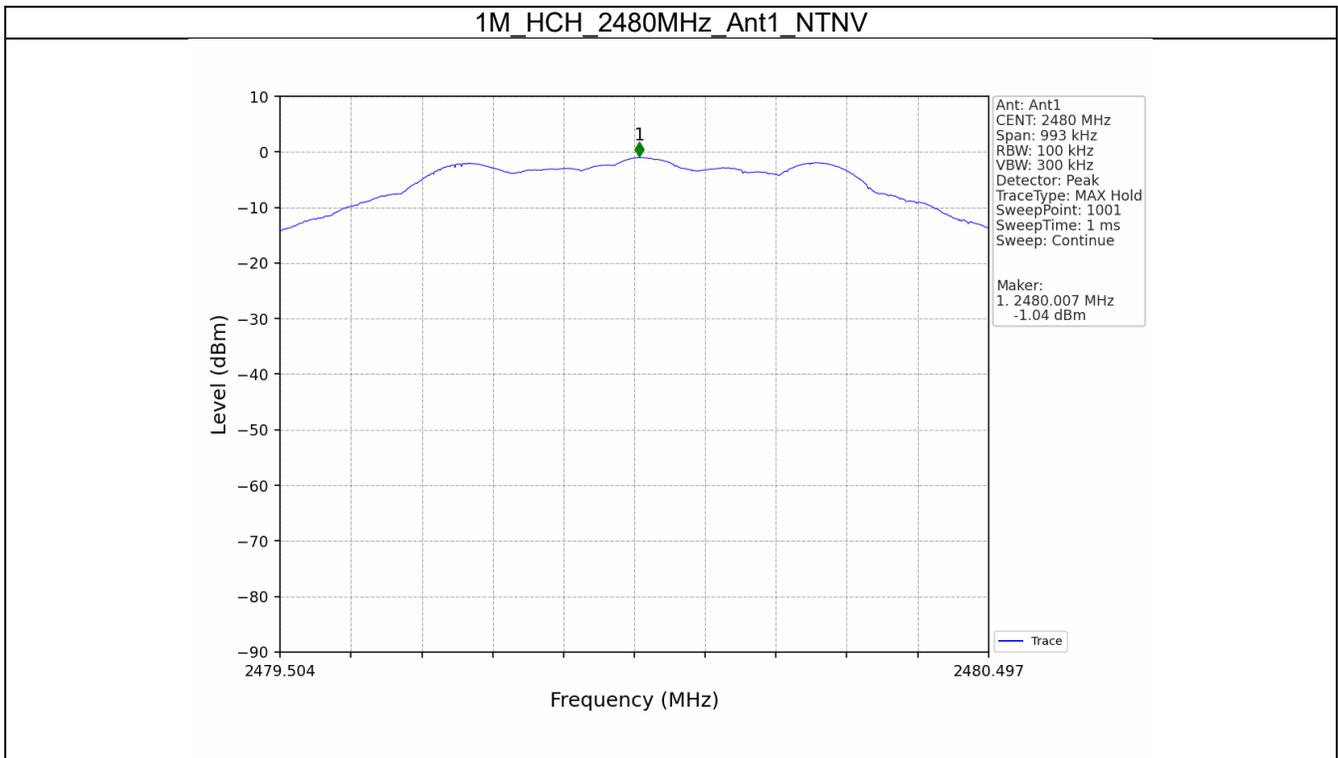
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.55	-21.55	Pass
		2440	1	-1.37	-21.37	Pass
		2480	1	-1.04	-21.04	Pass
2M	SISO	2402	1	-1.45	-21.45	Pass
		2440	1	-1.23	-21.23	Pass
		2480	1	-0.91	-20.91	Pass

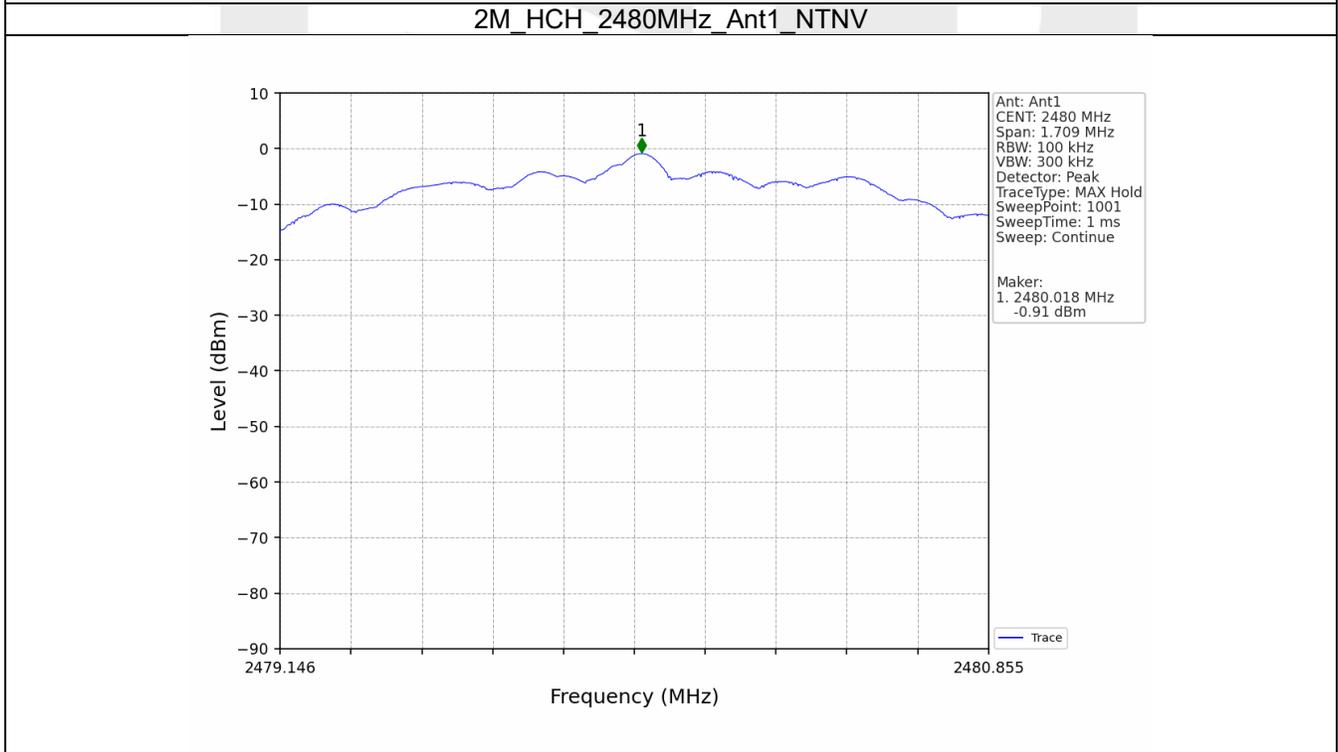
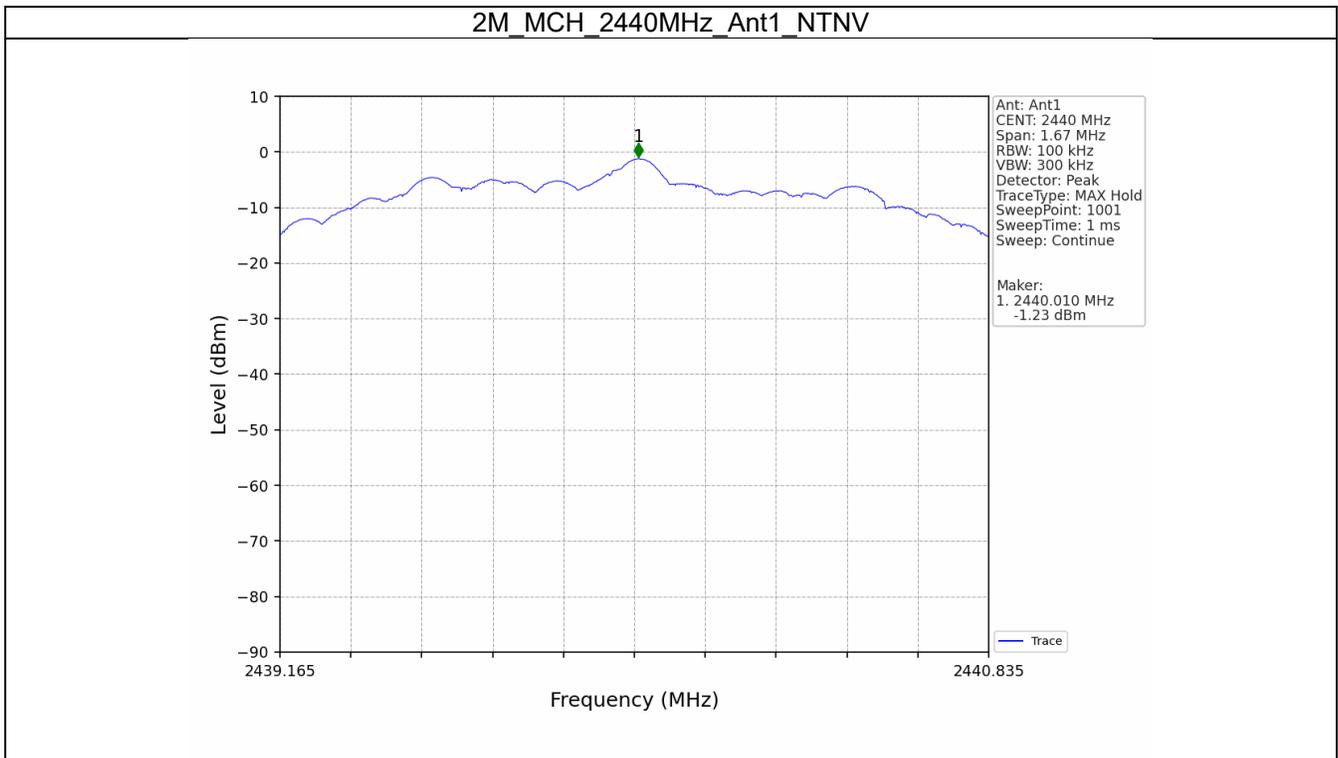
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

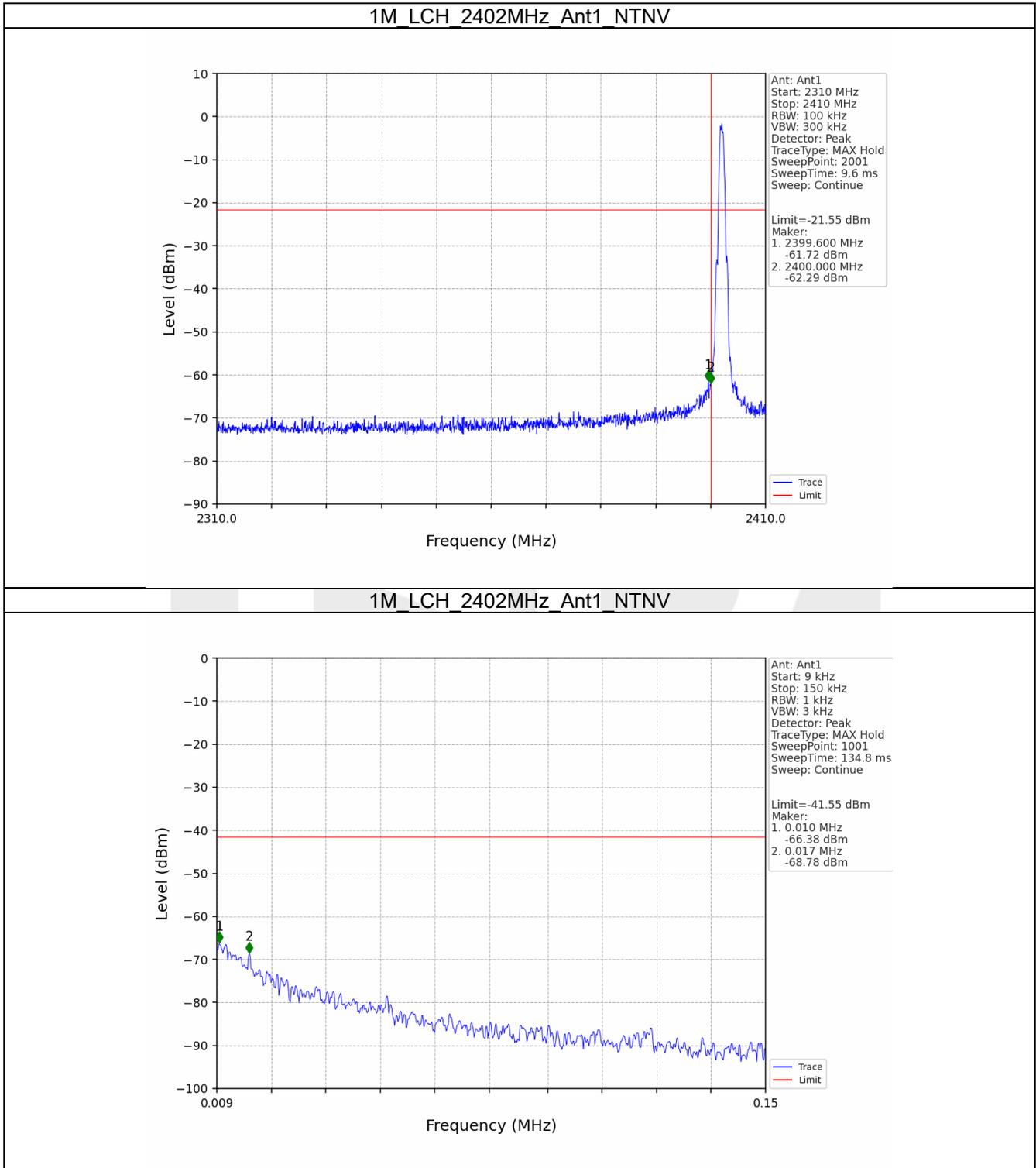
5.2.1 Ref

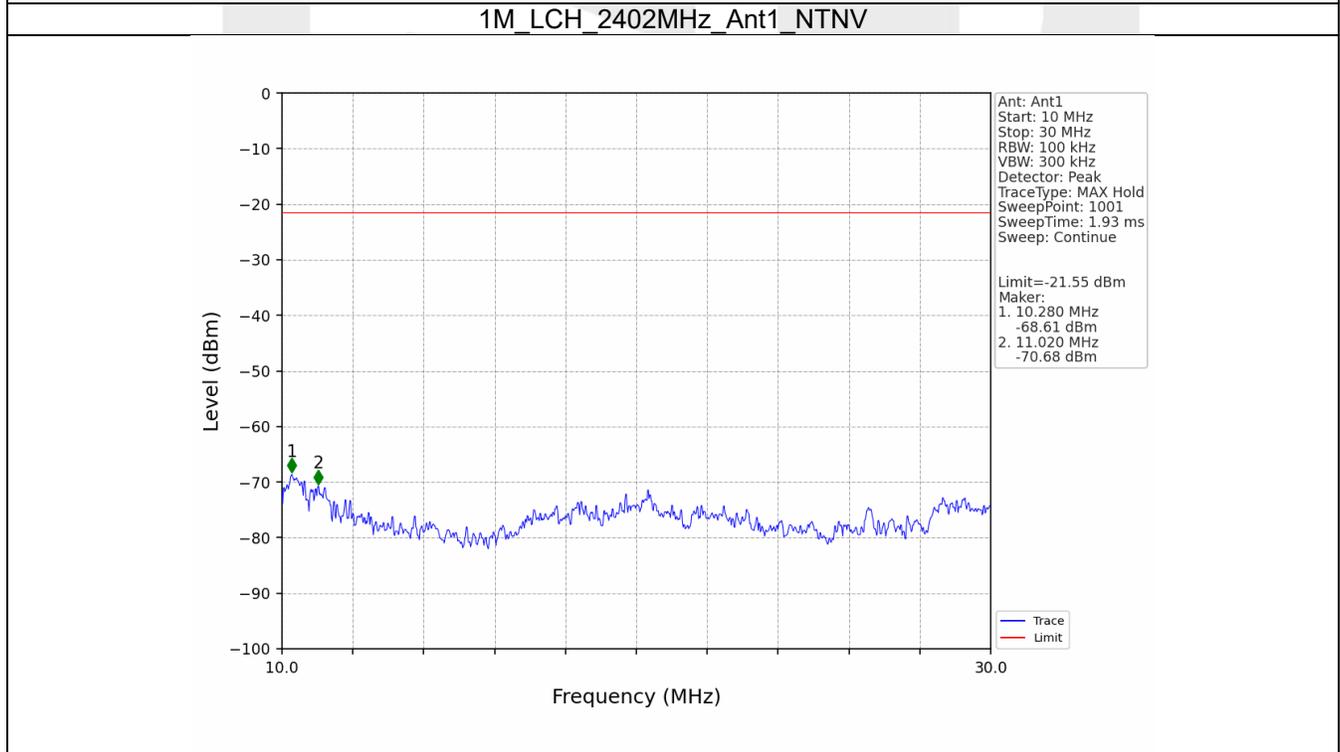
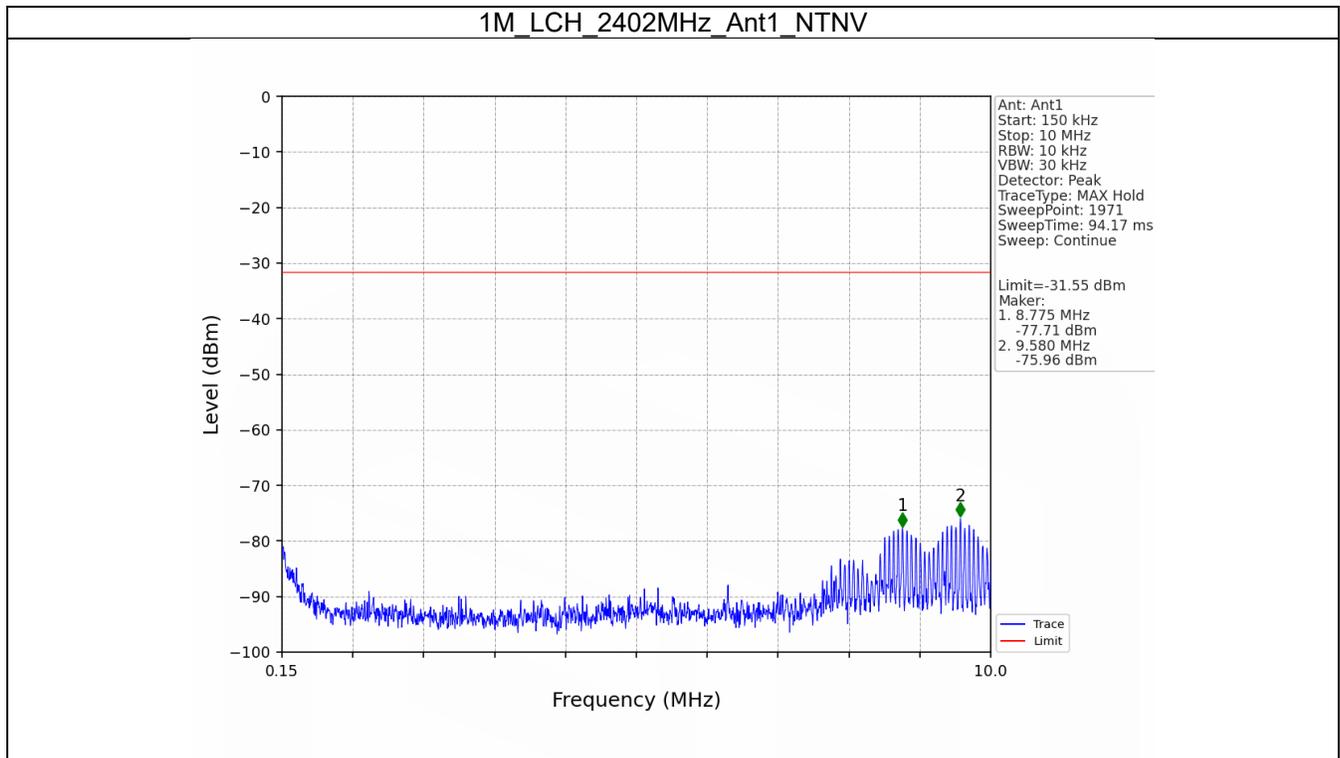


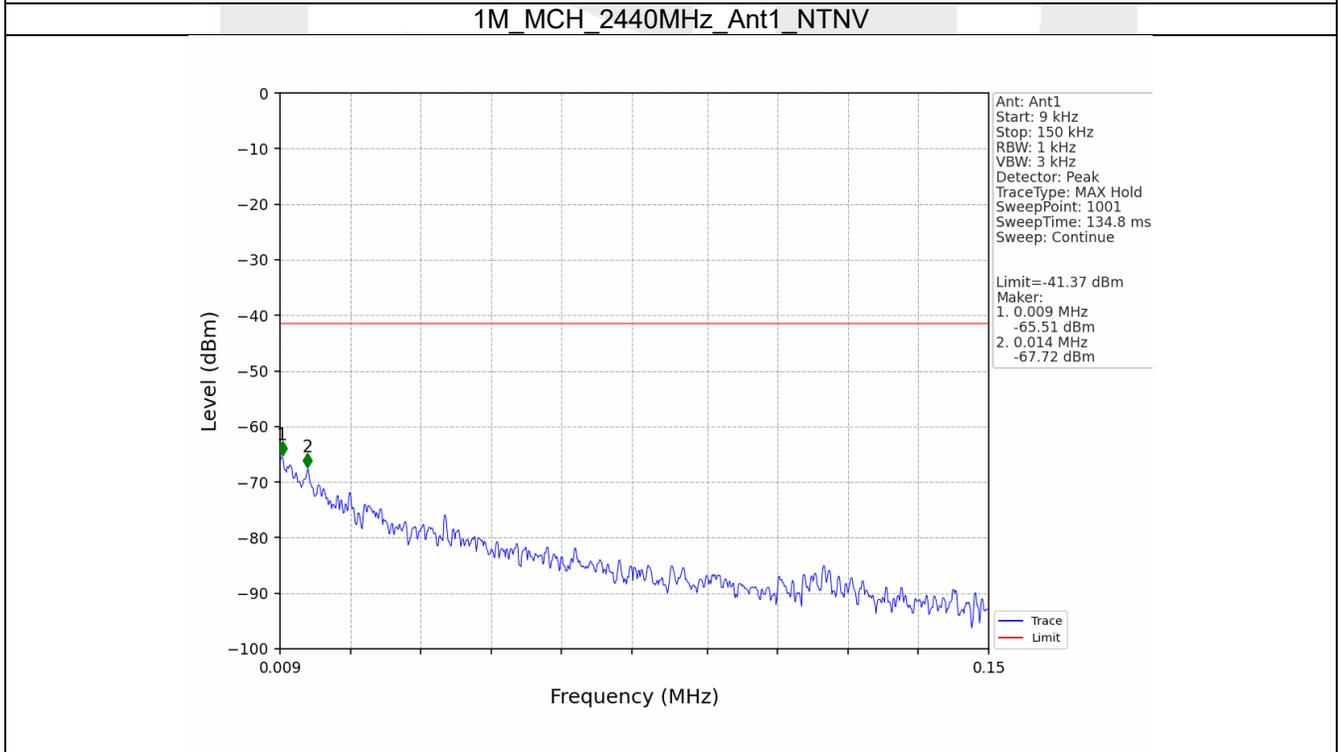
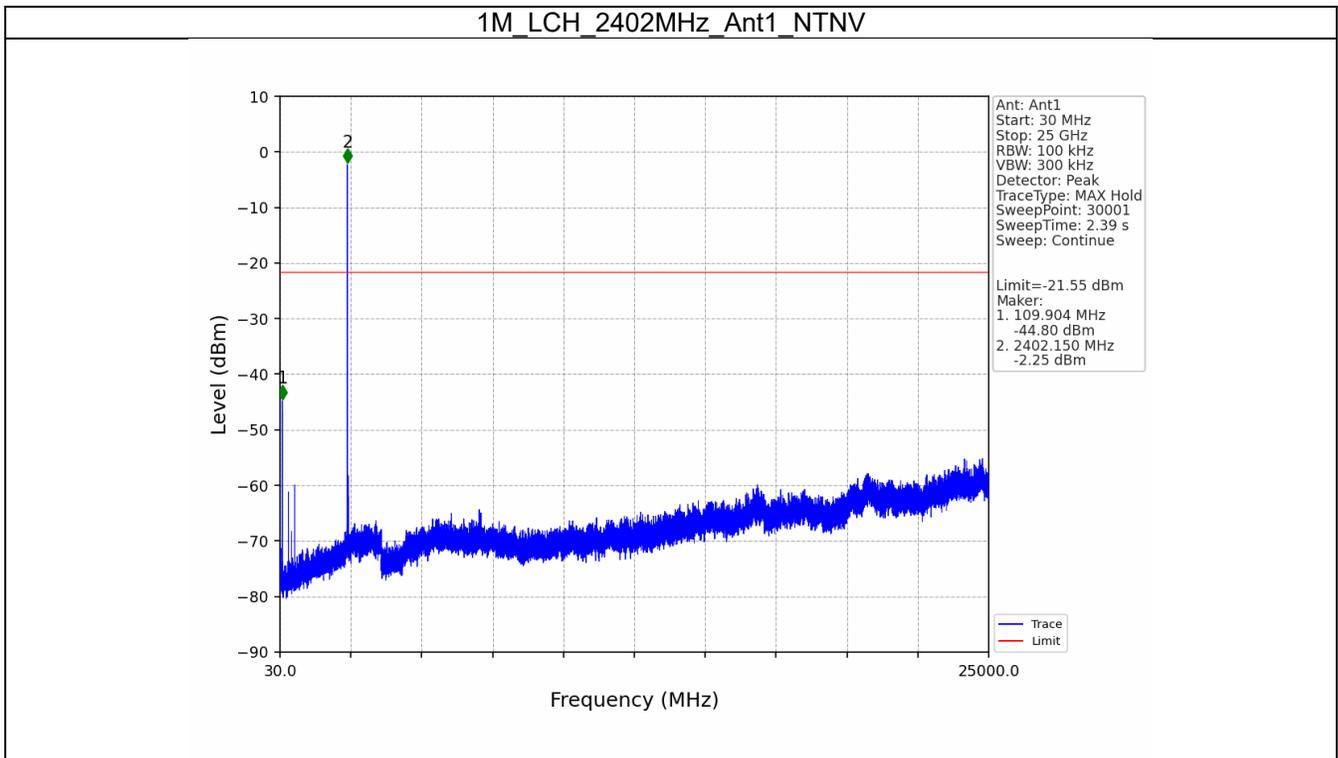


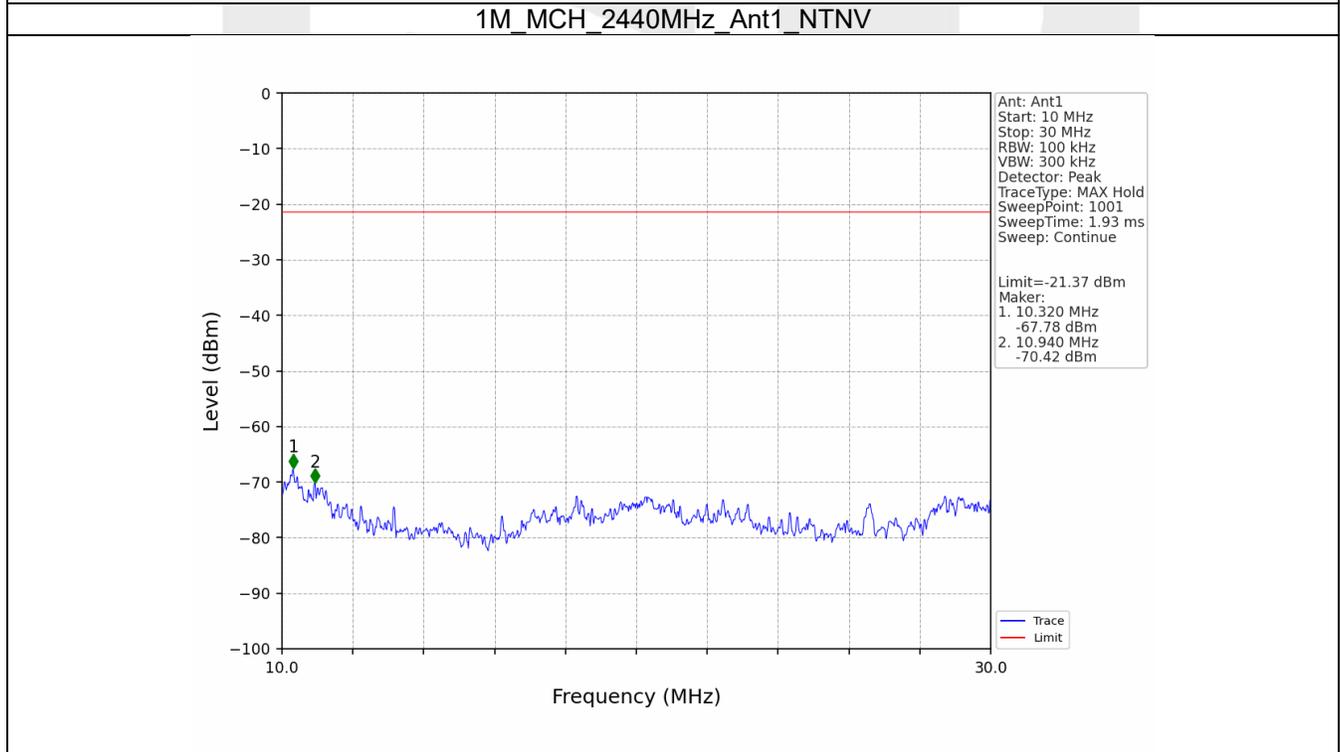
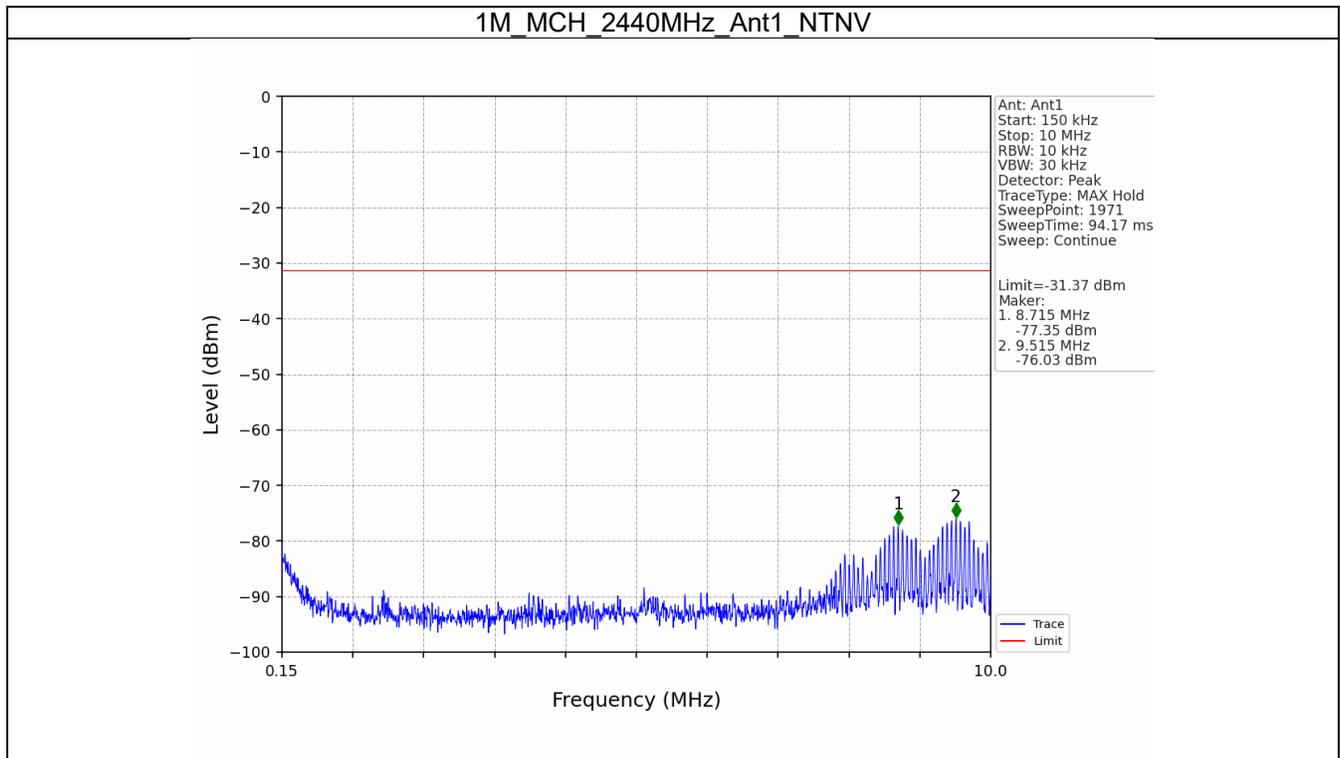


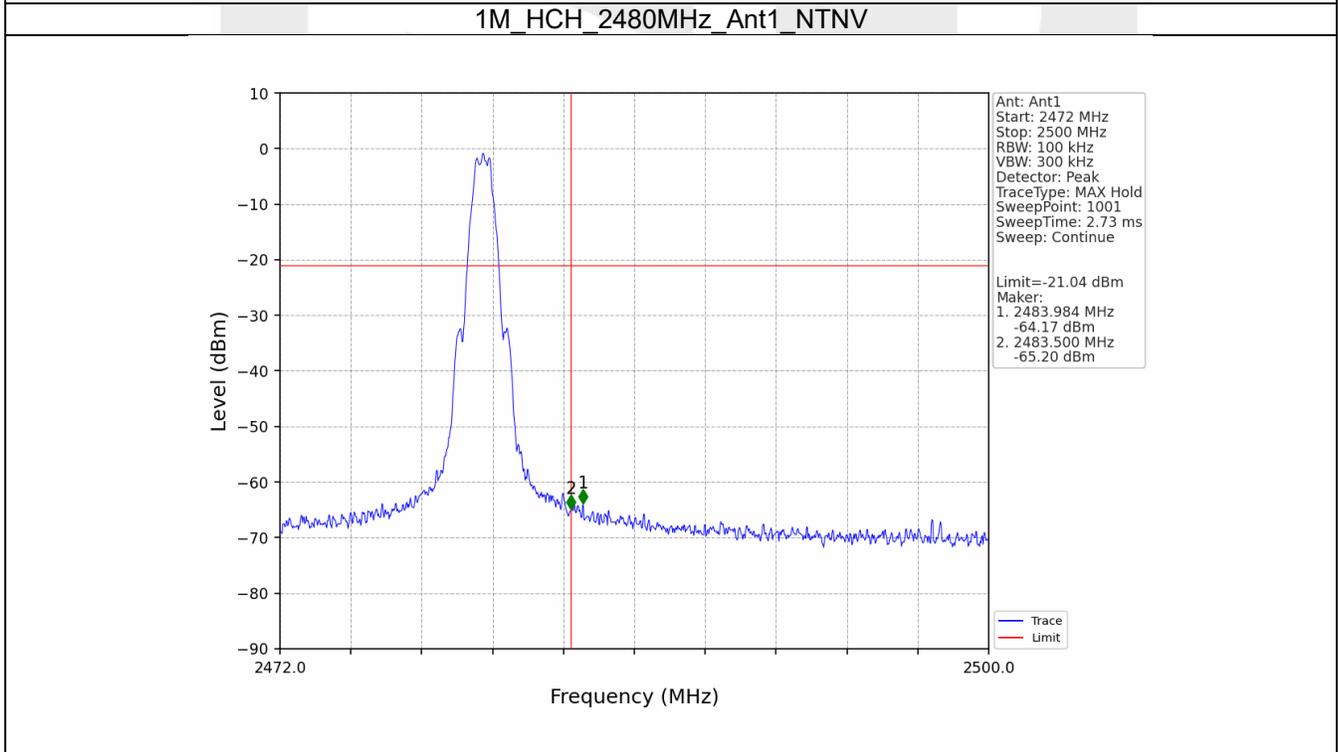
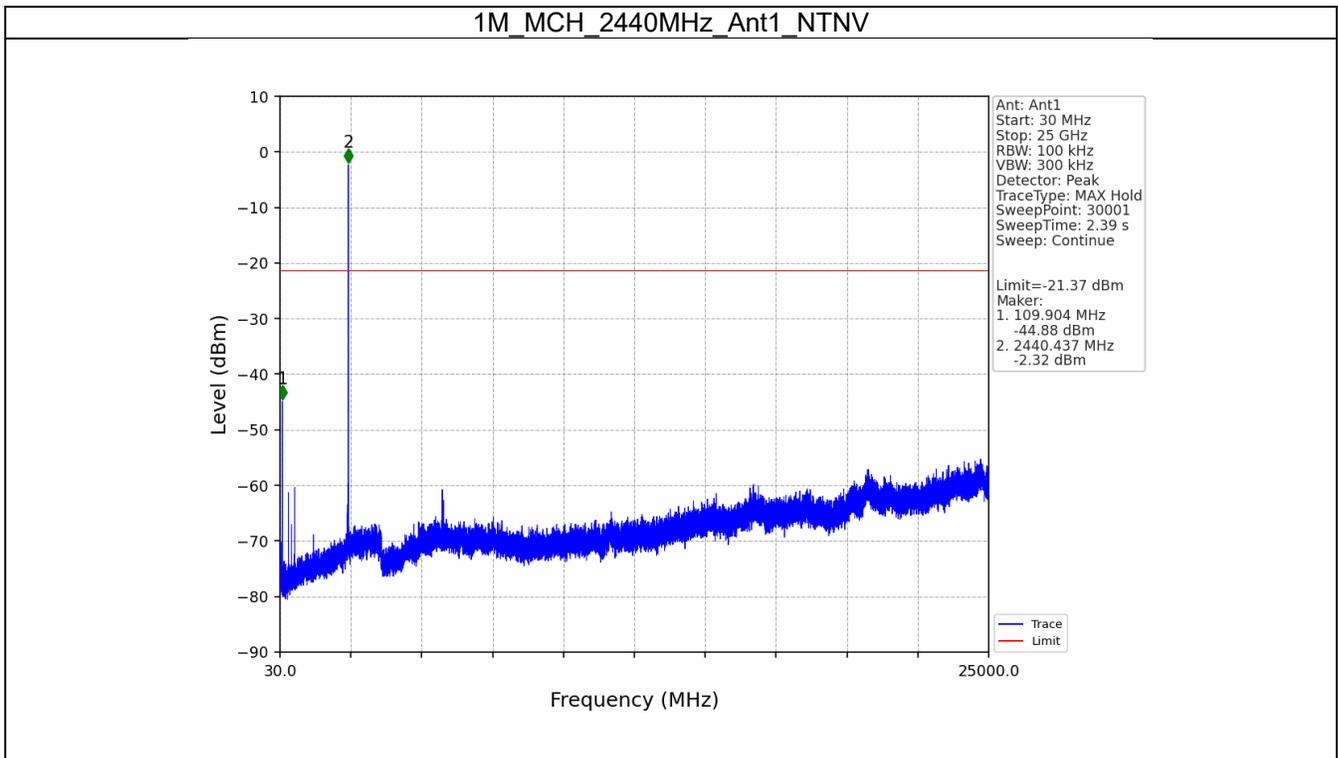
5.2.2 CSE

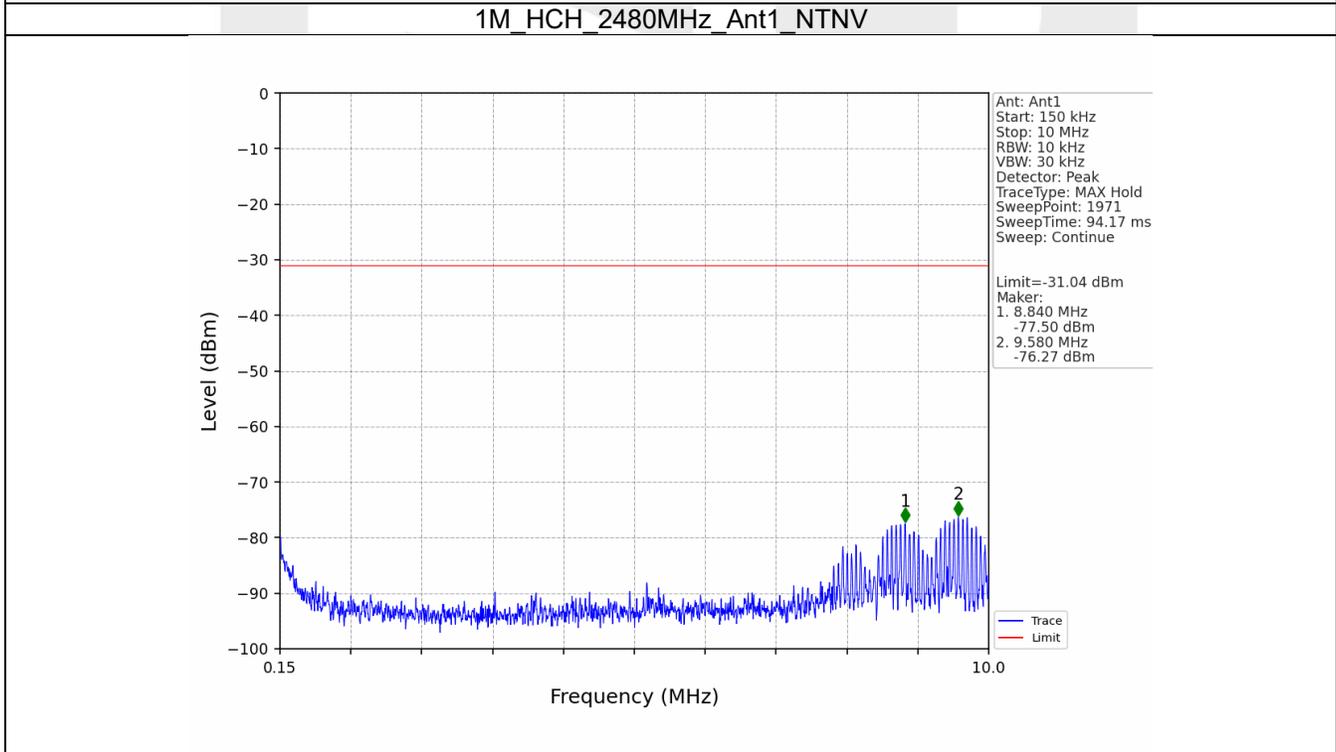
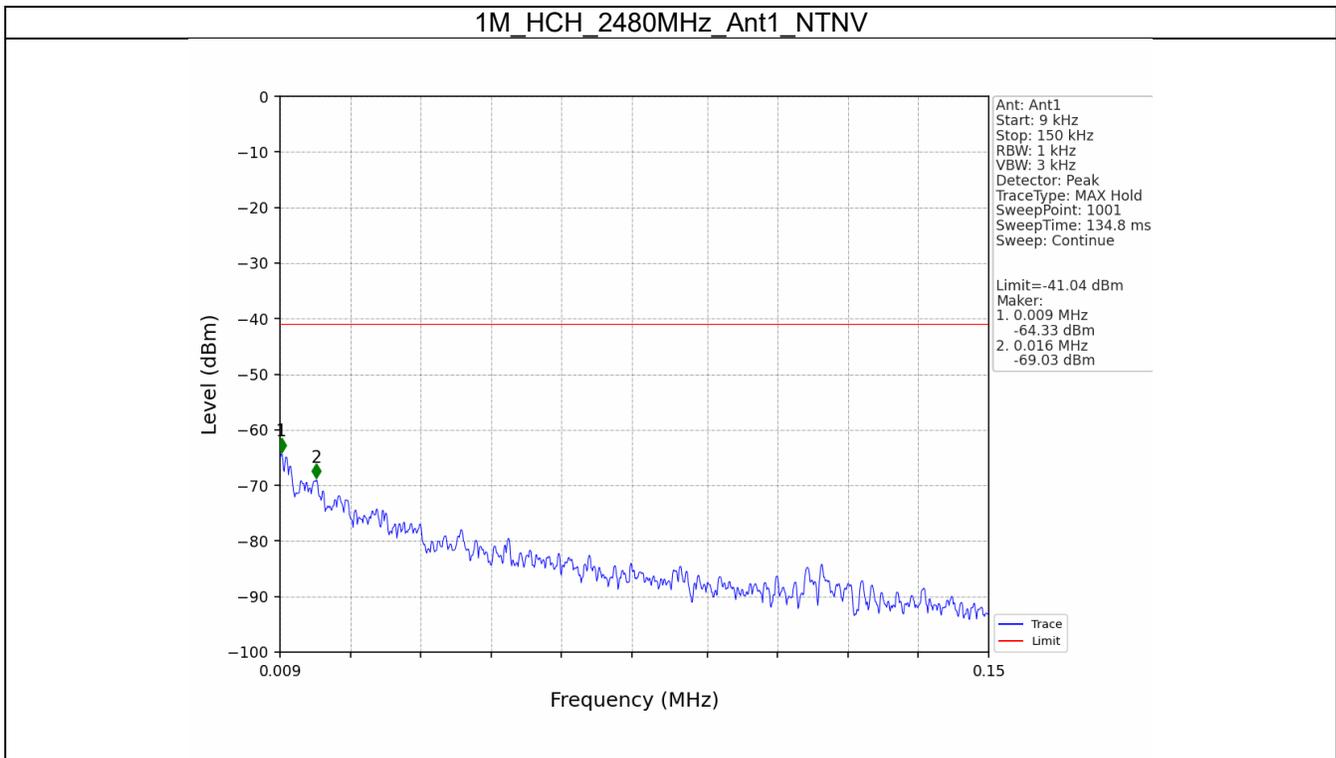


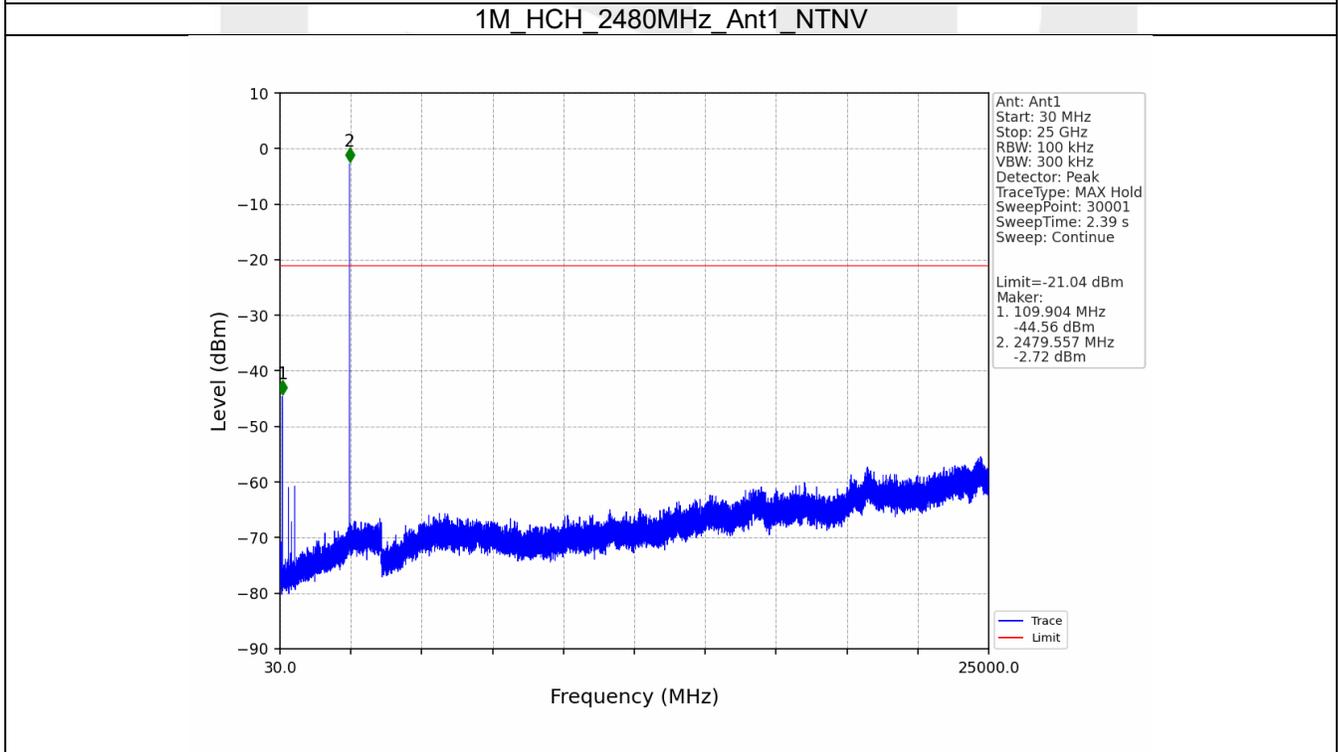
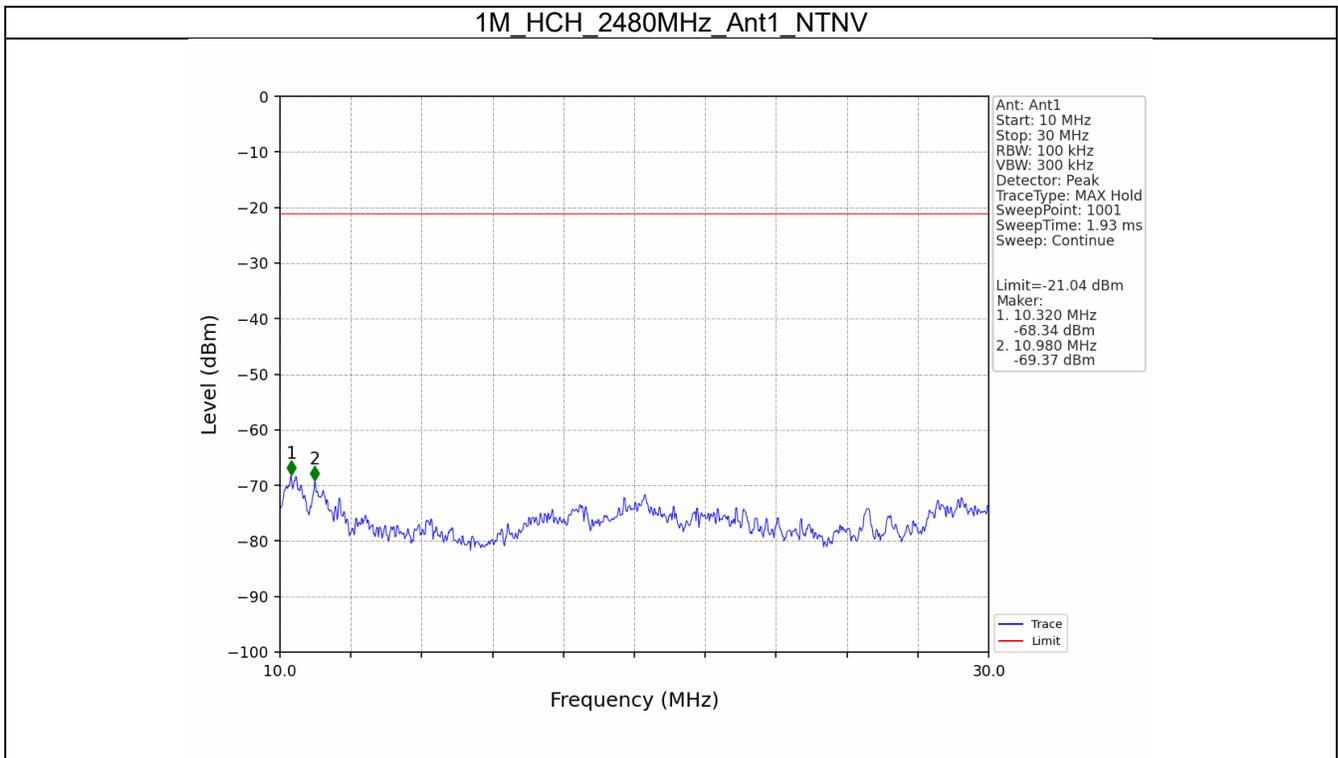


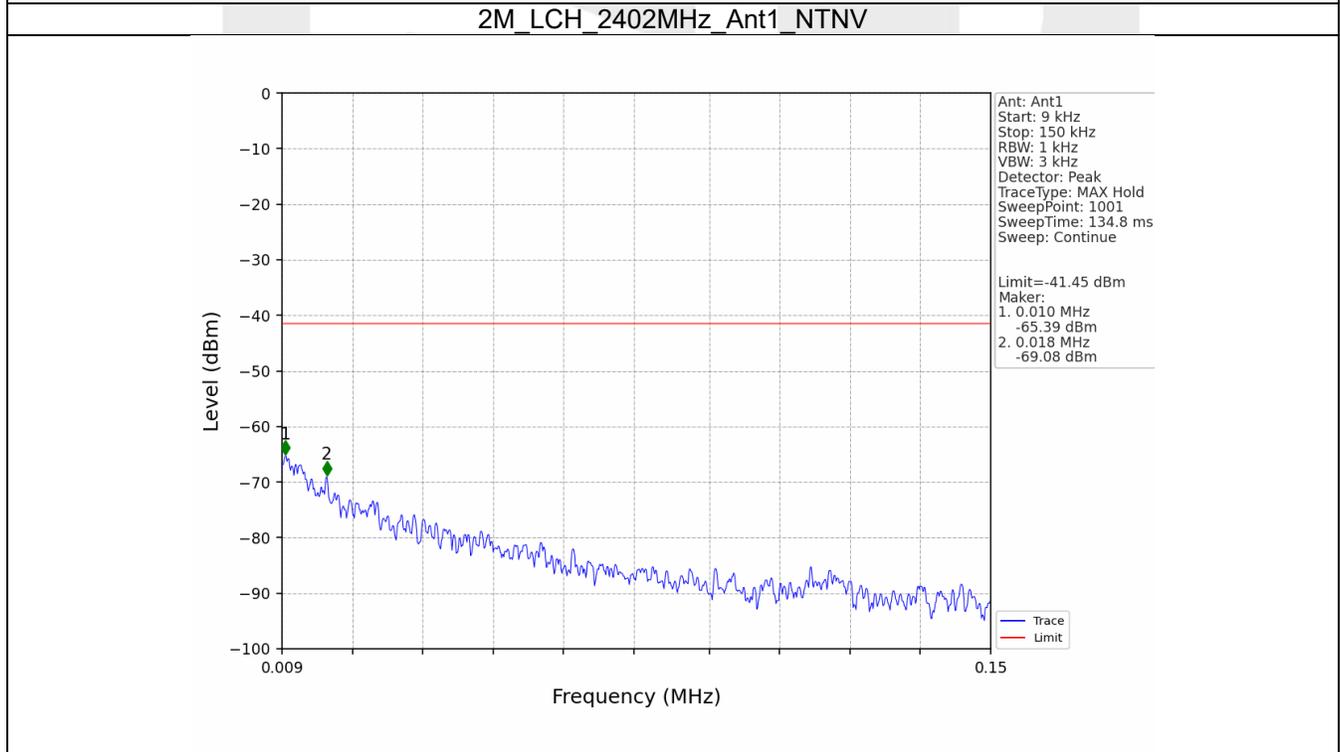
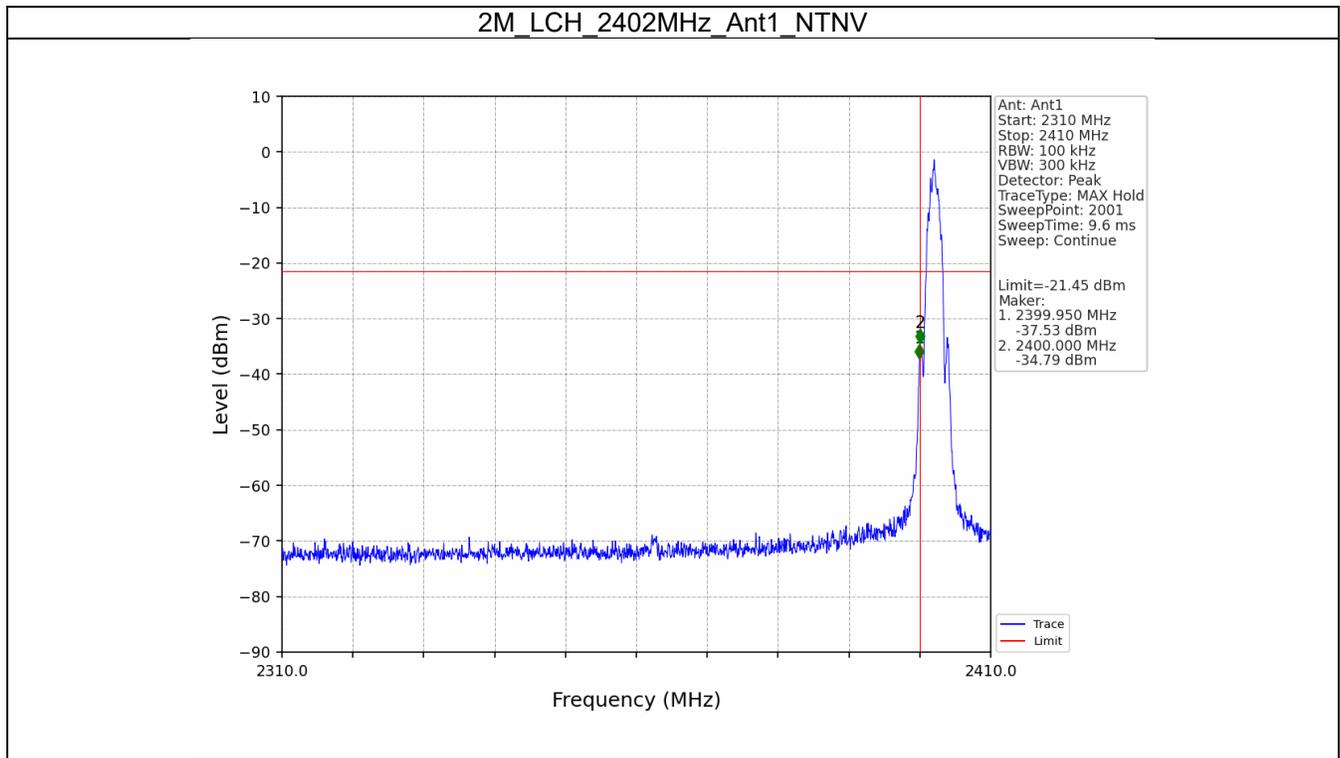


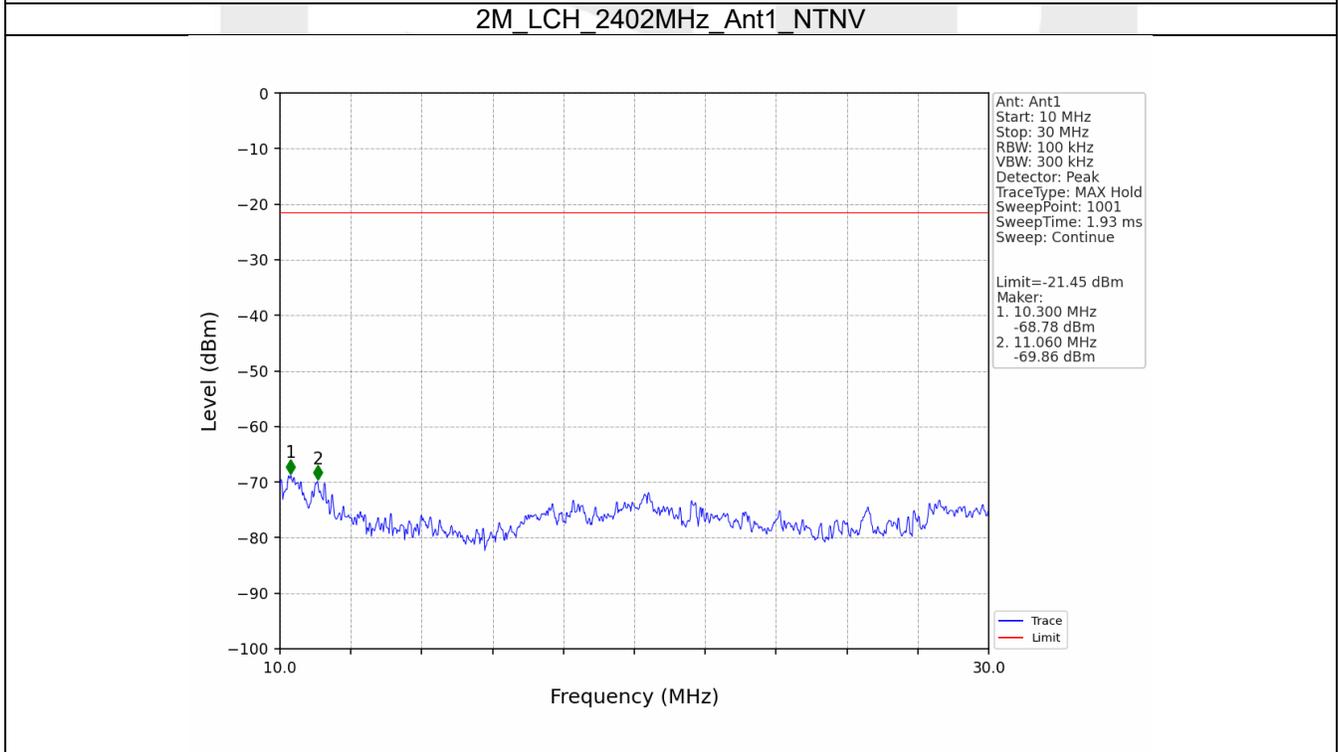
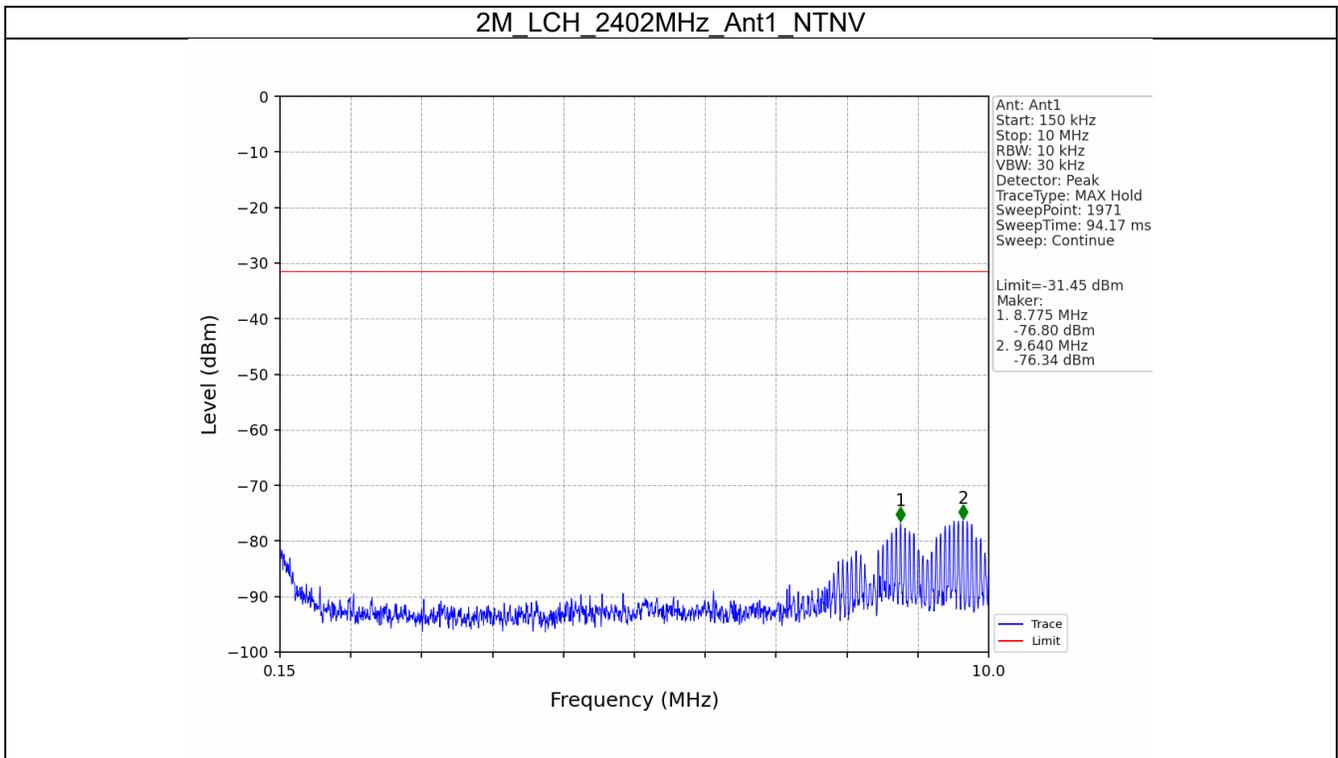


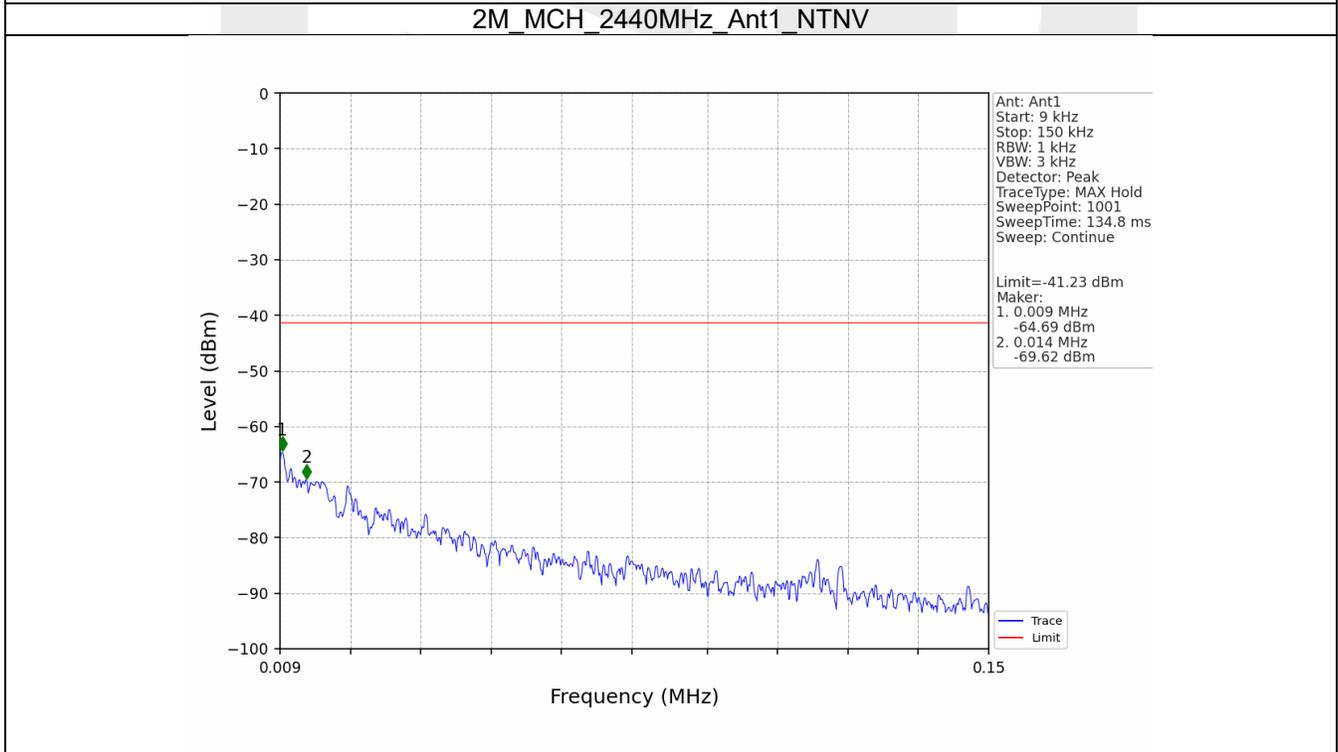
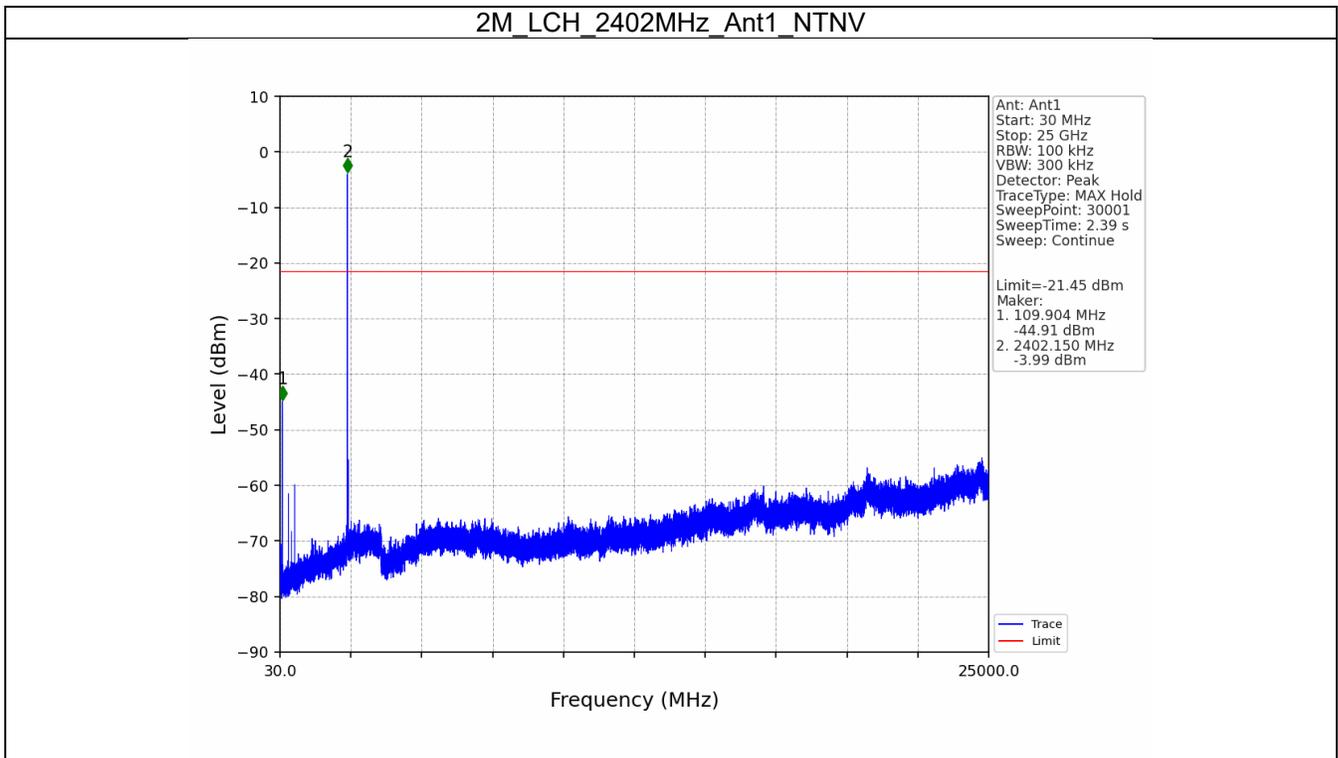


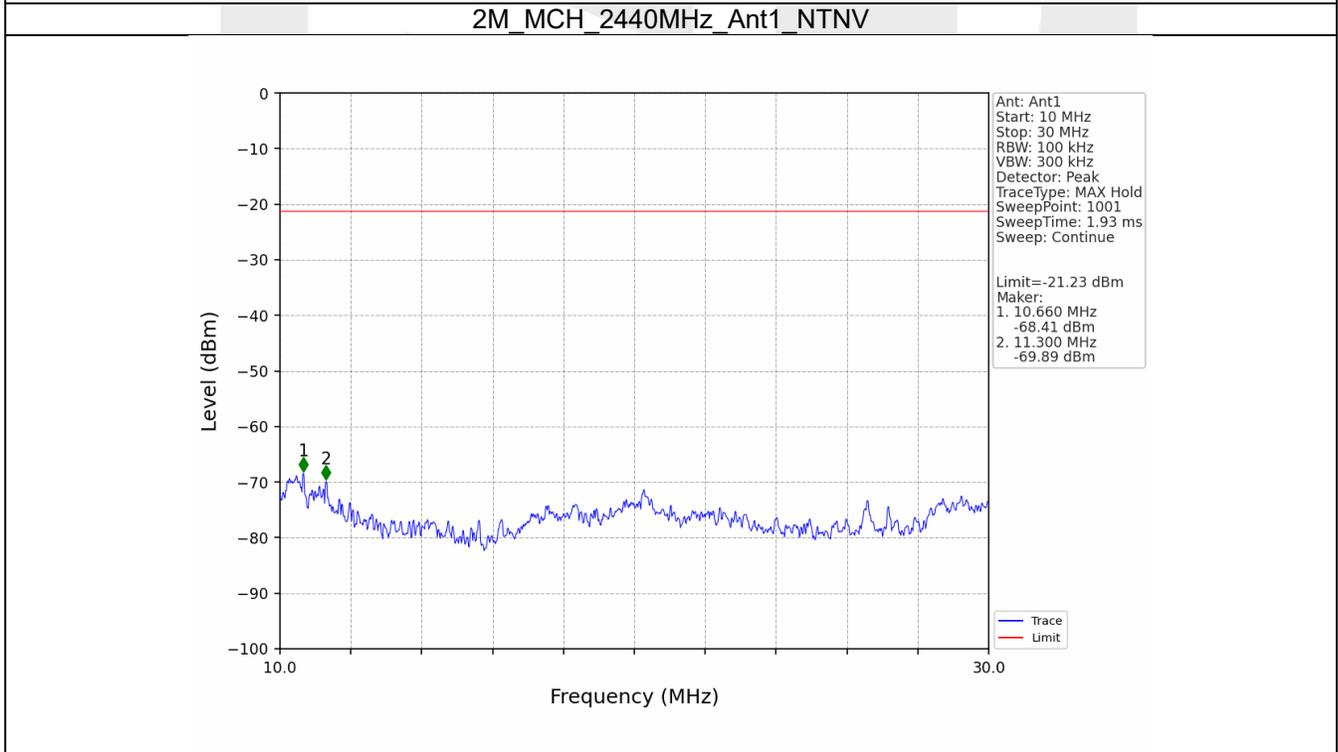
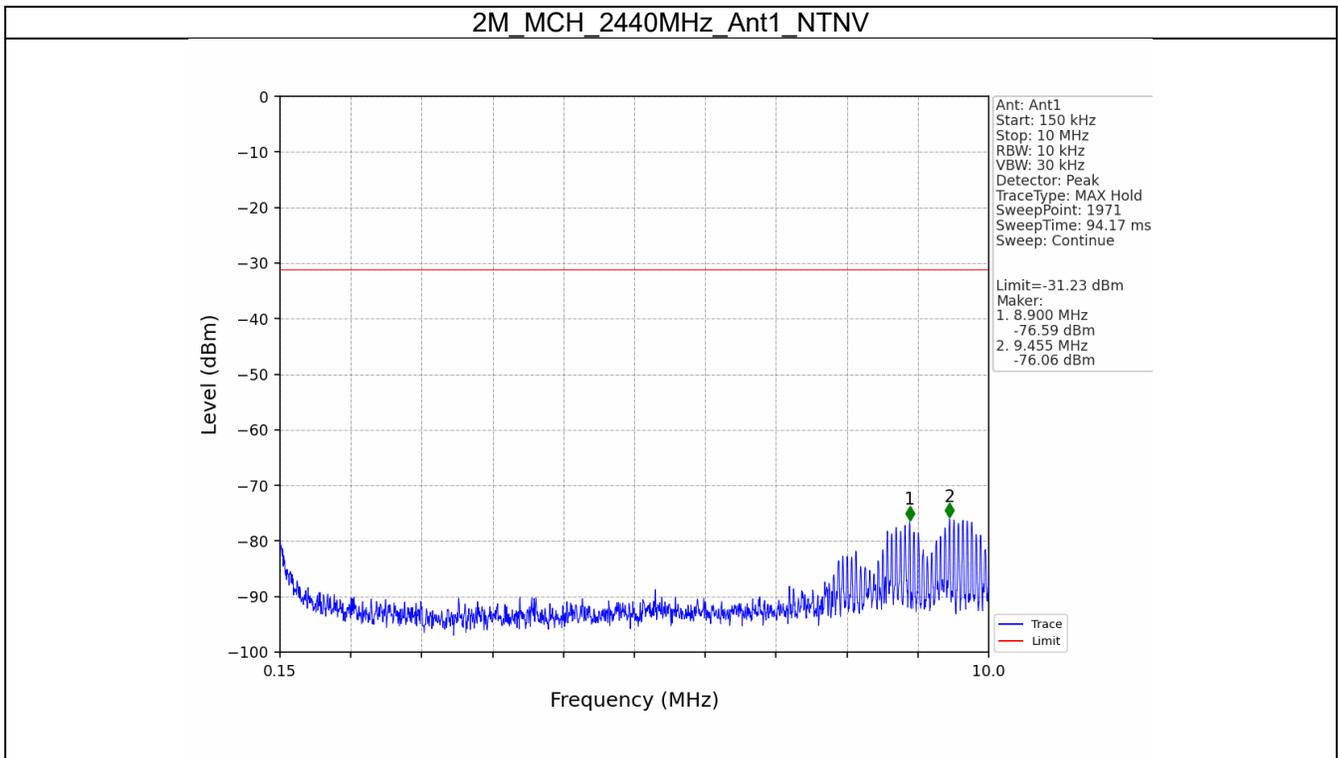


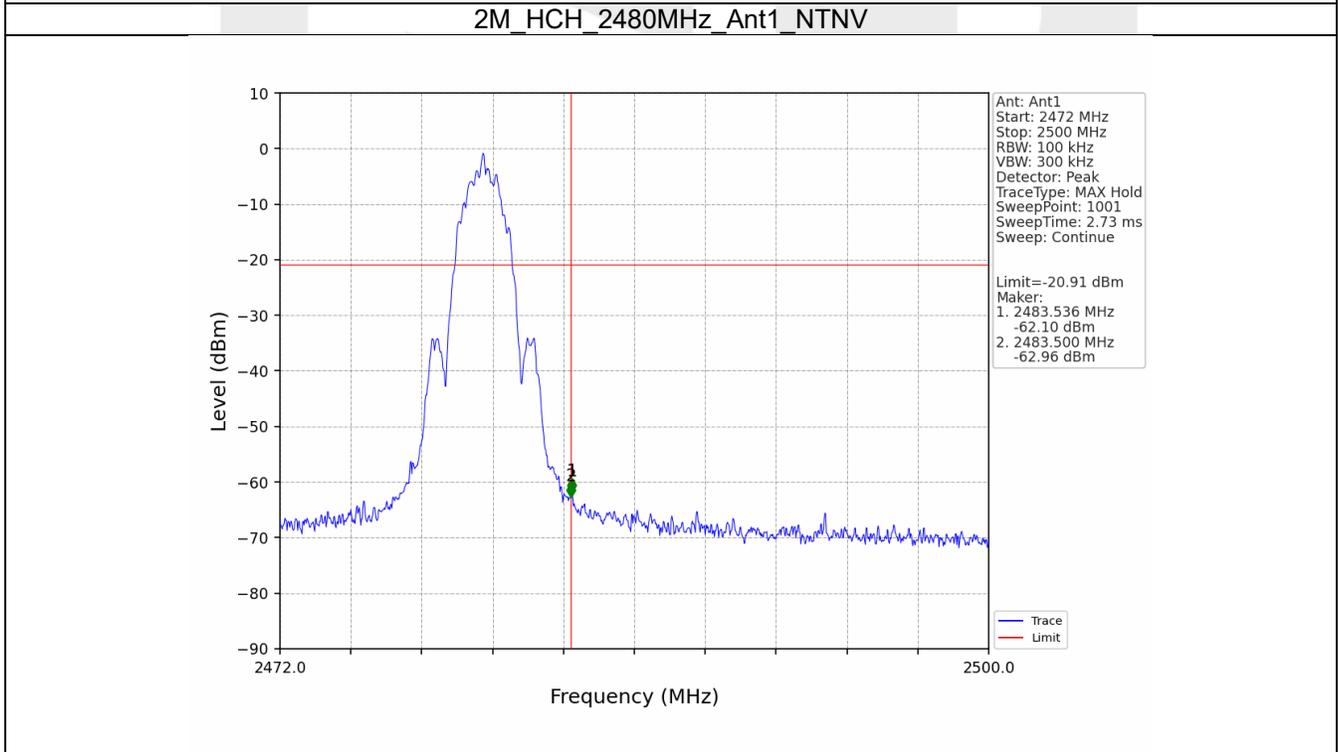
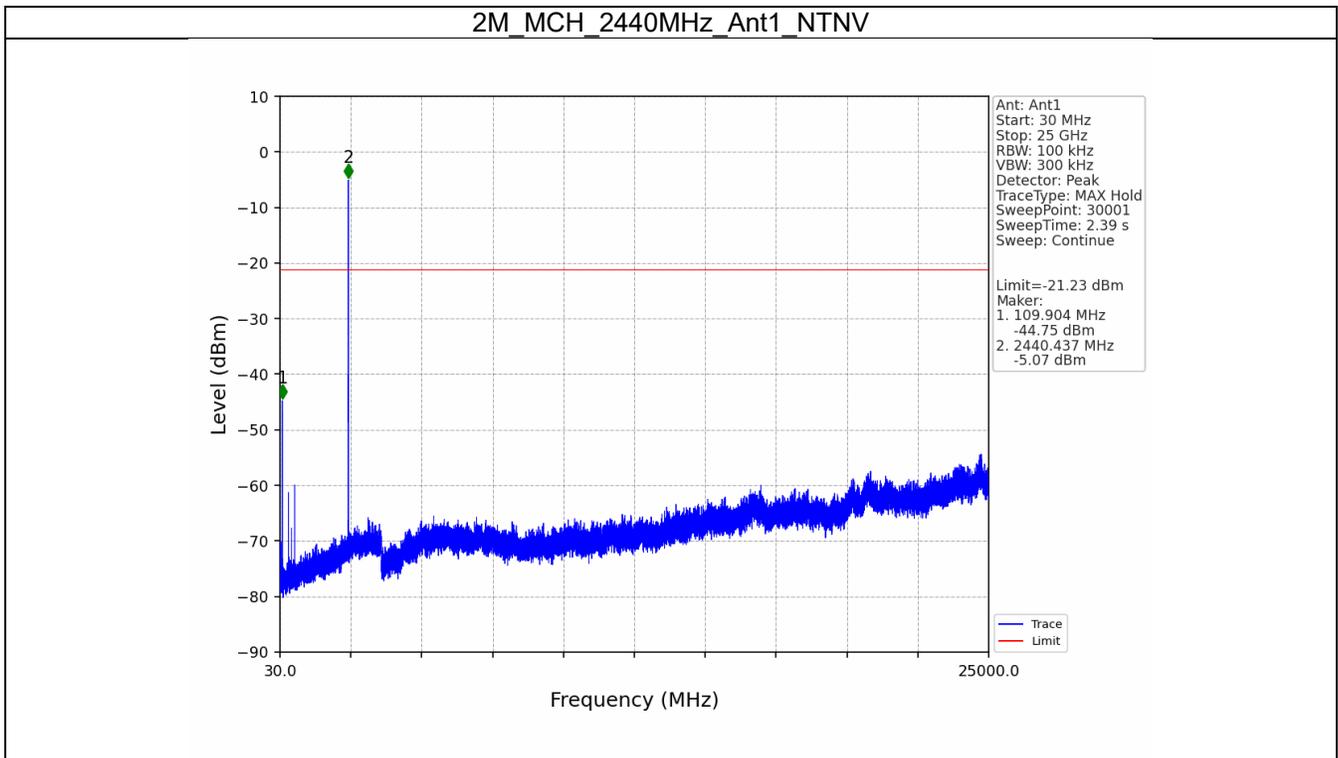


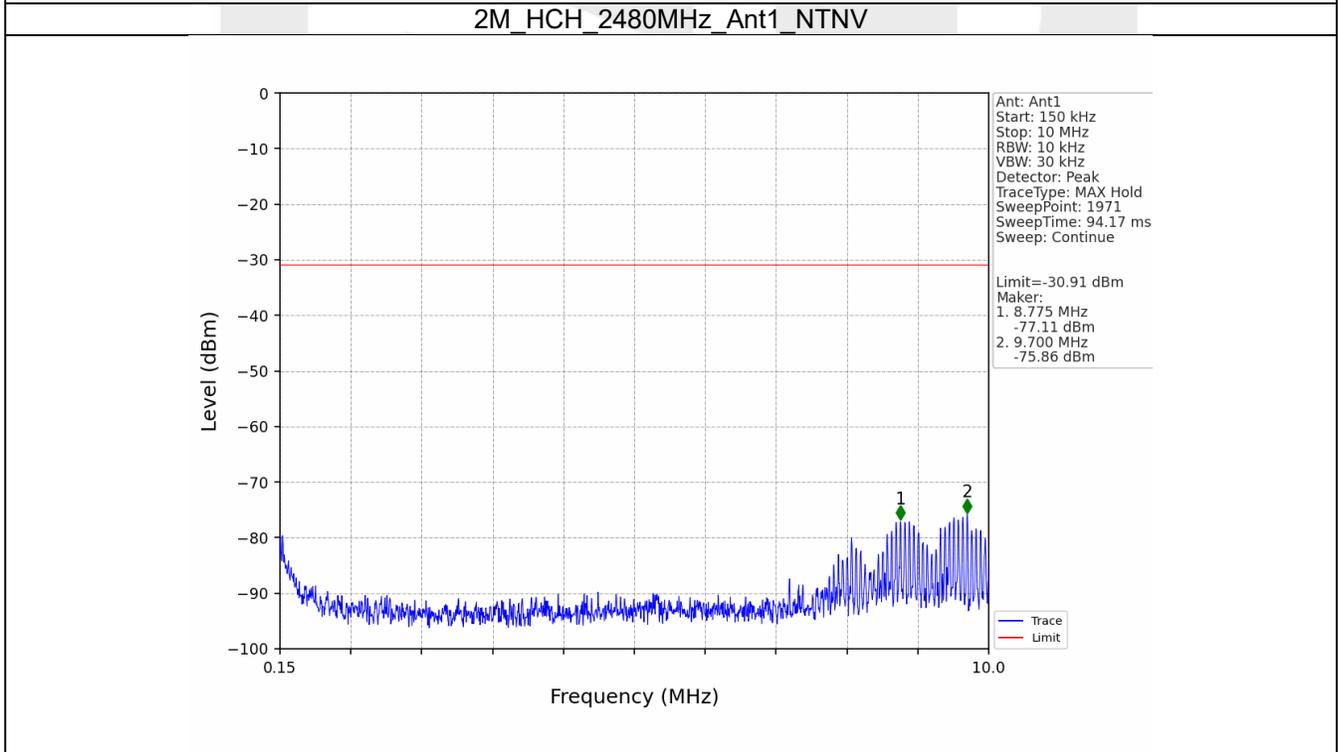
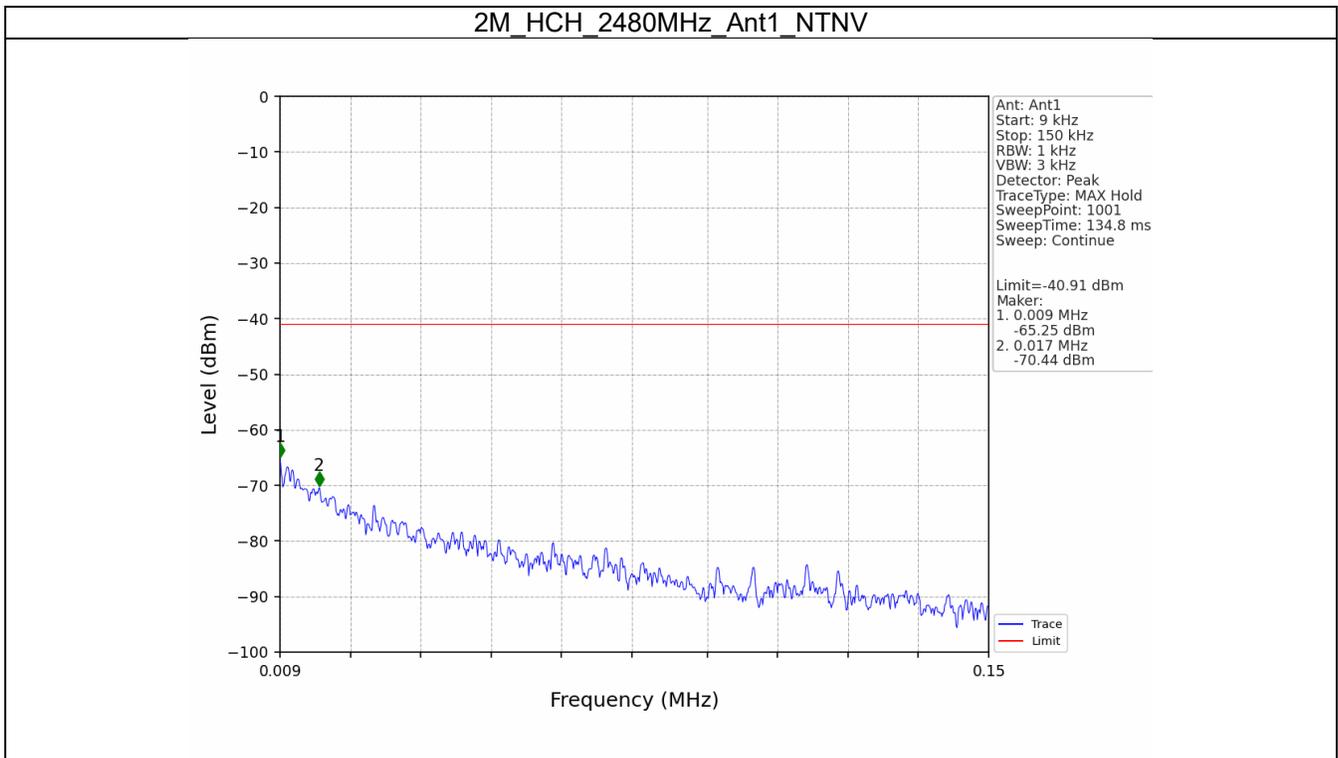


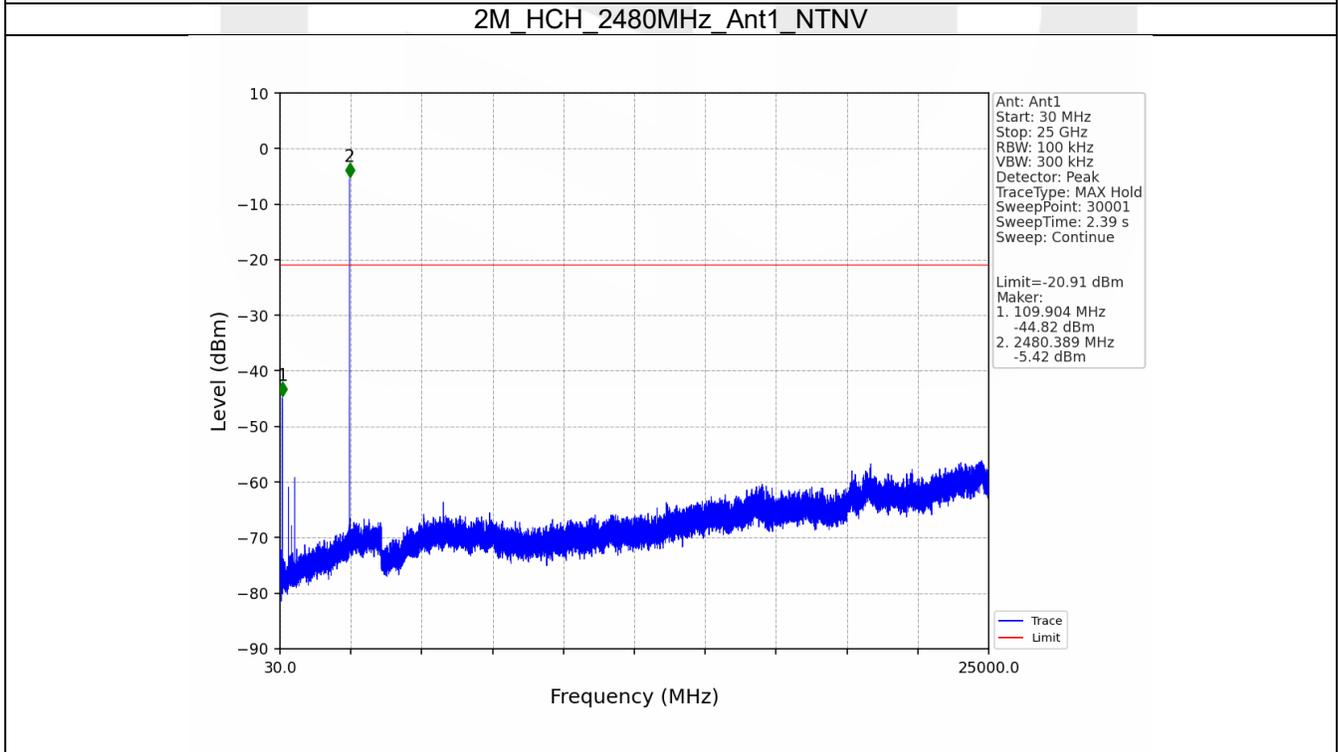
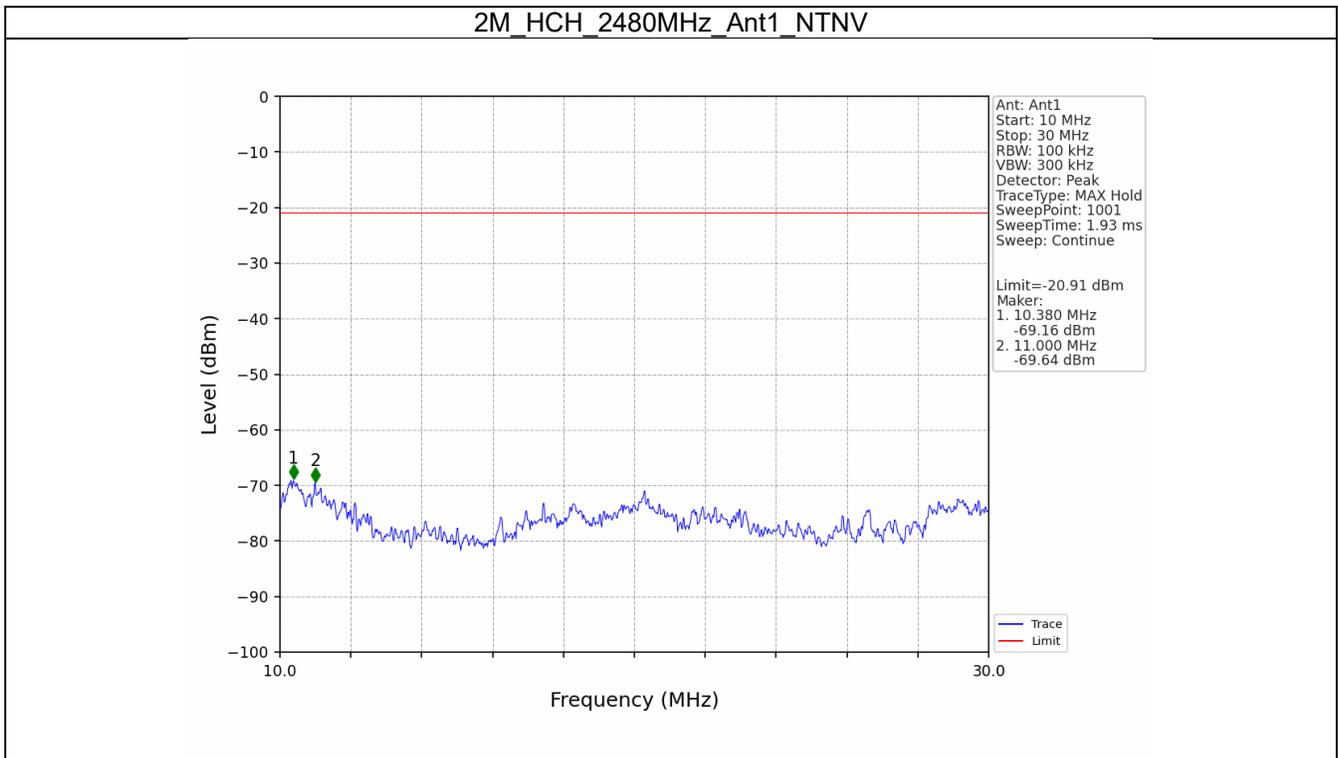












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