

## 10 Appendix

### 1. Bandwidth

#### 1.1 Test Result

##### 1.1.1 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.948	/	Pass
		2441	DH5	1	0.955	/	Pass
		2480	DH5	1	0.959	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.322	/	Pass
		2441	2DH5	1	1.320	/	Pass
		2480	2DH5	1	1.322	/	Pass
8DPSK	SISO	2402	3DH5	1	1.313	/	Pass
		2441	3DH5	1	1.311	/	Pass
		2480	3DH5	1	1.312	/	Pass

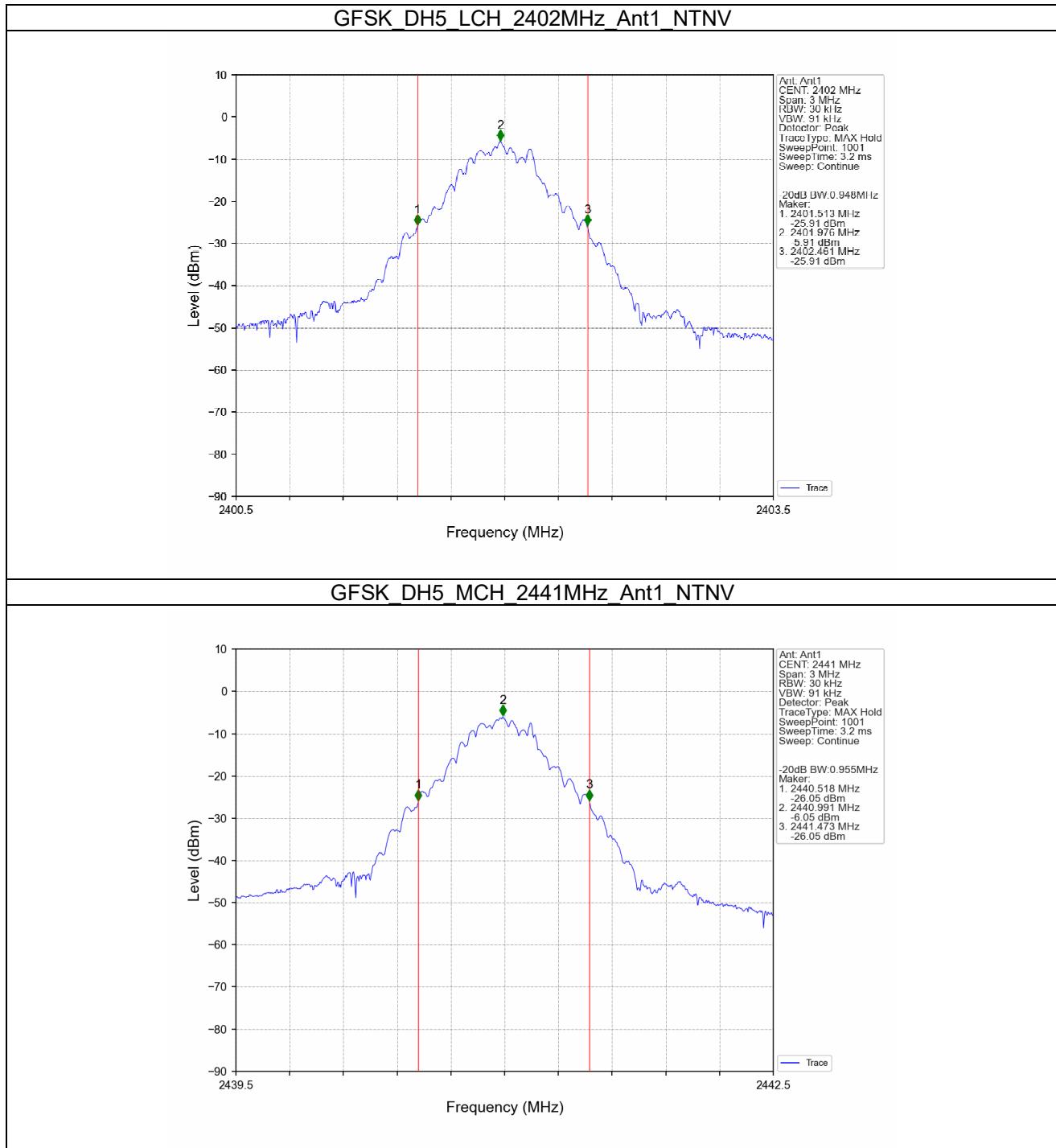


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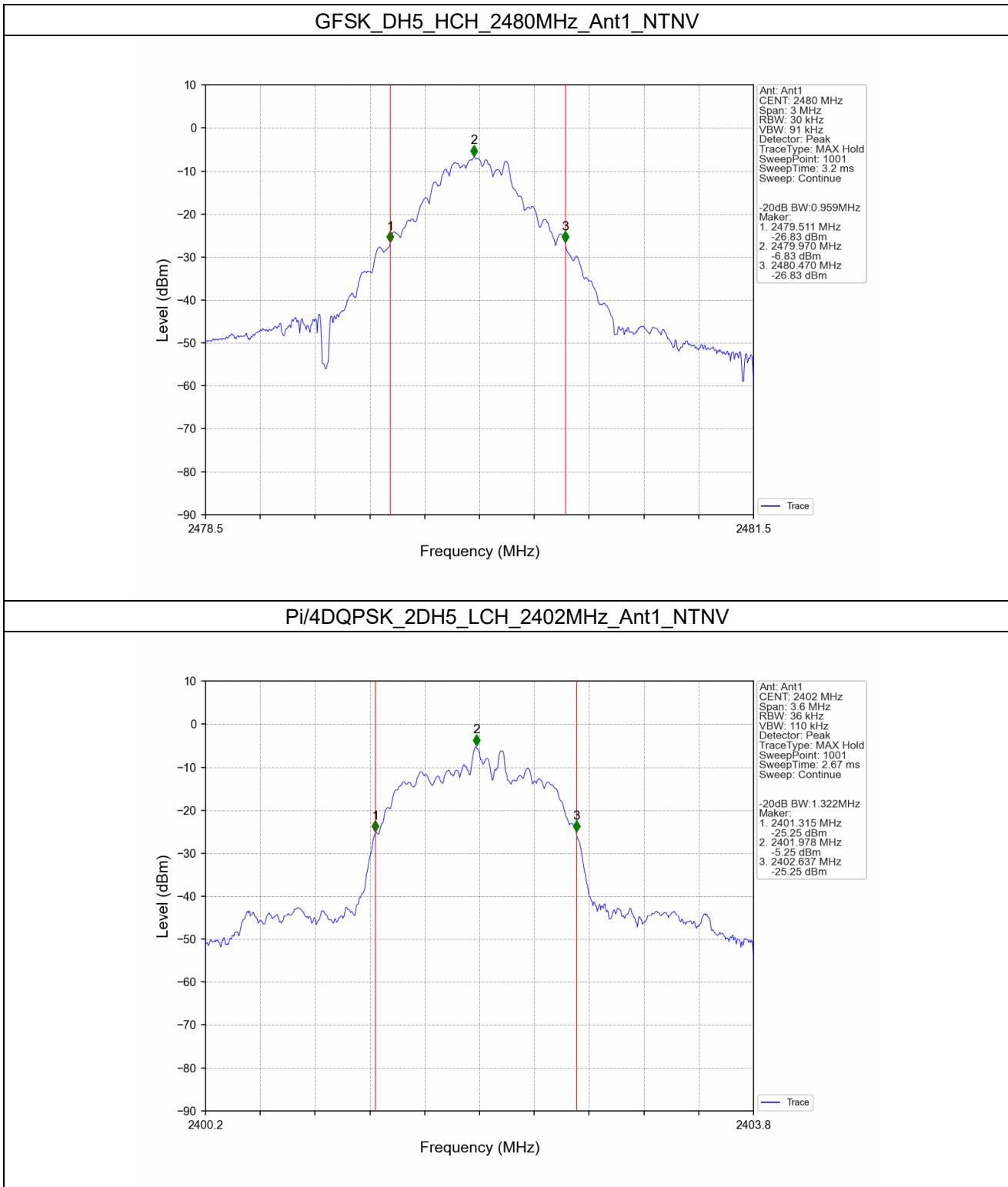
## 1.2 Test Graph

### 1.2.1 20dB BW



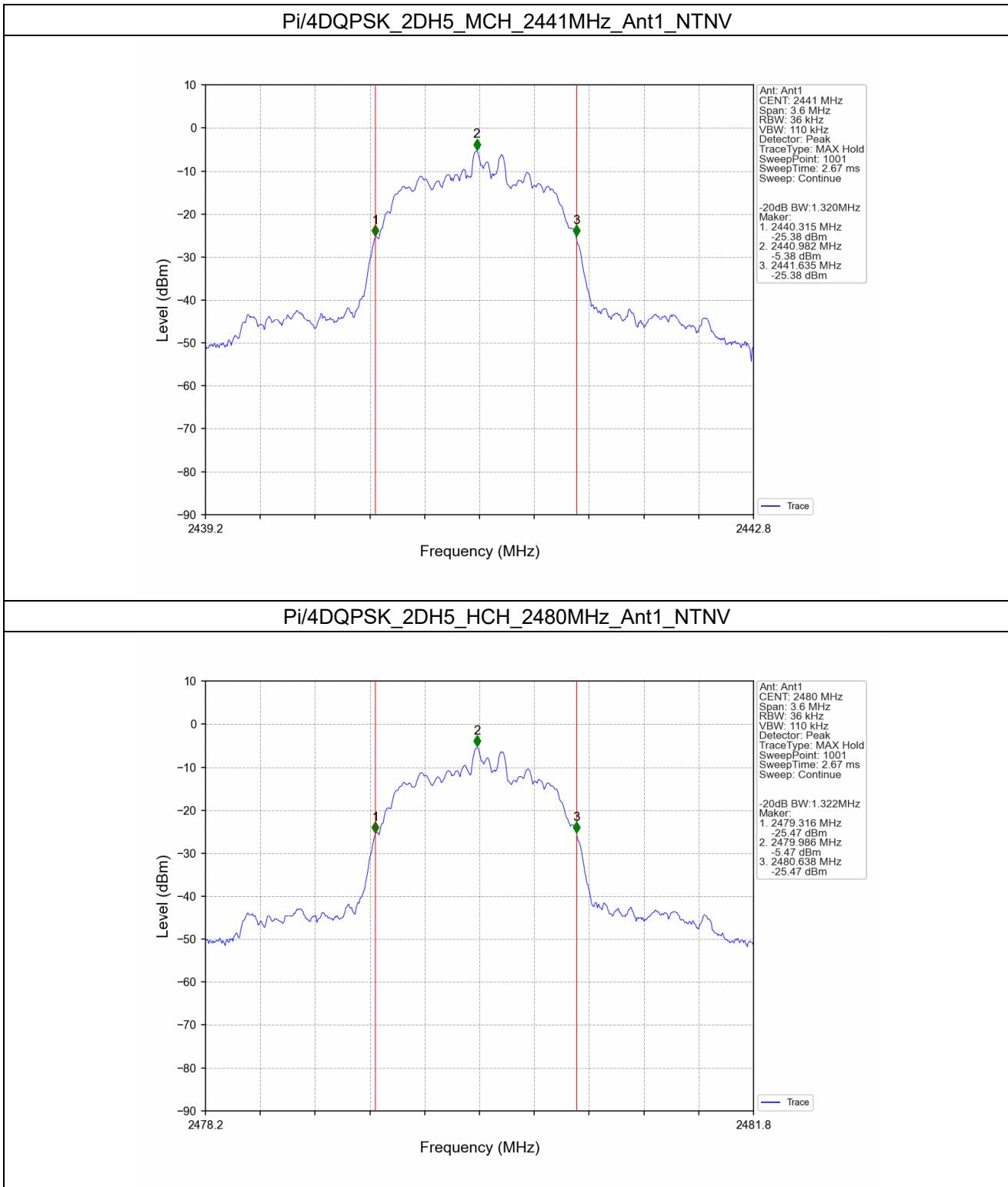
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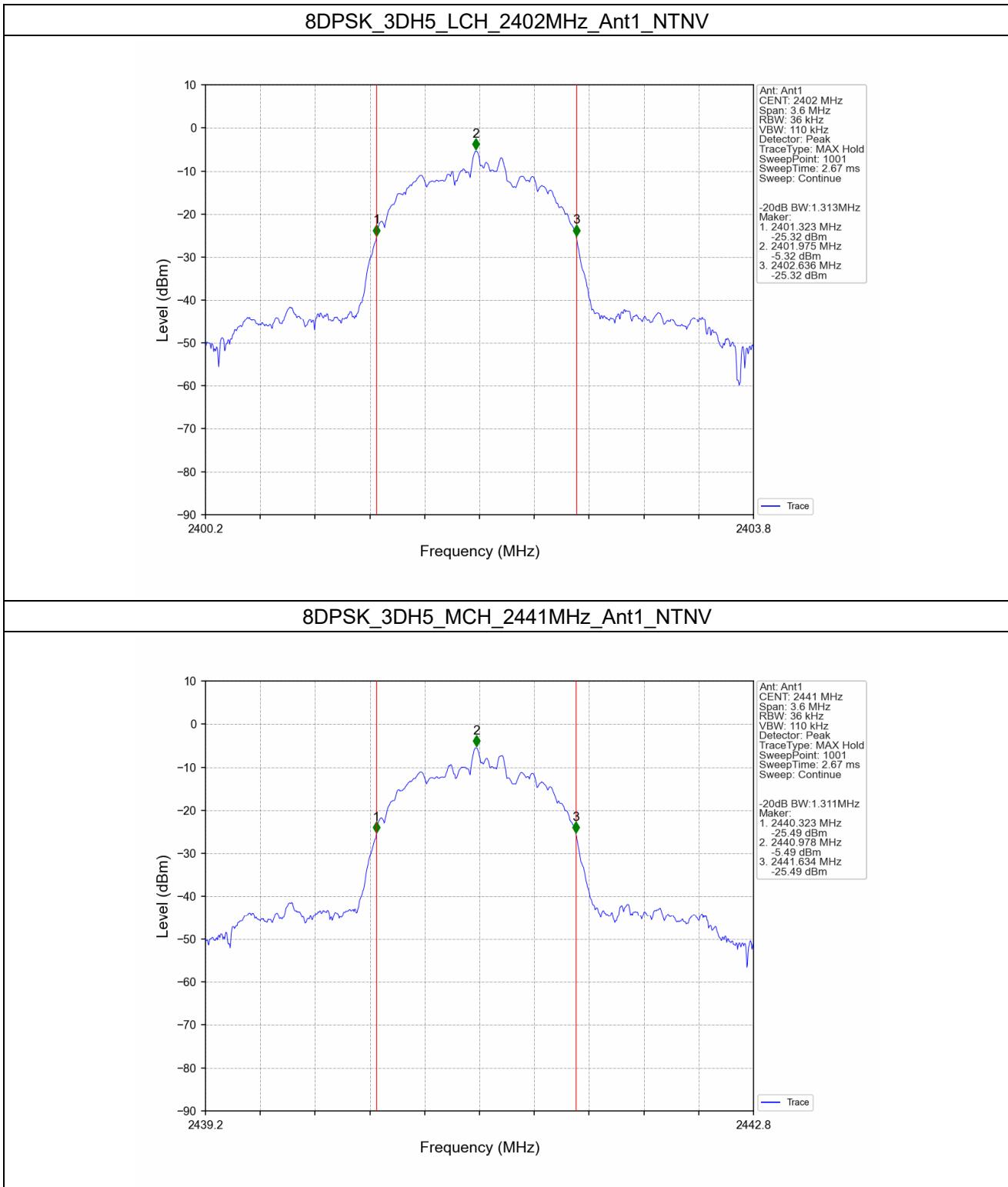
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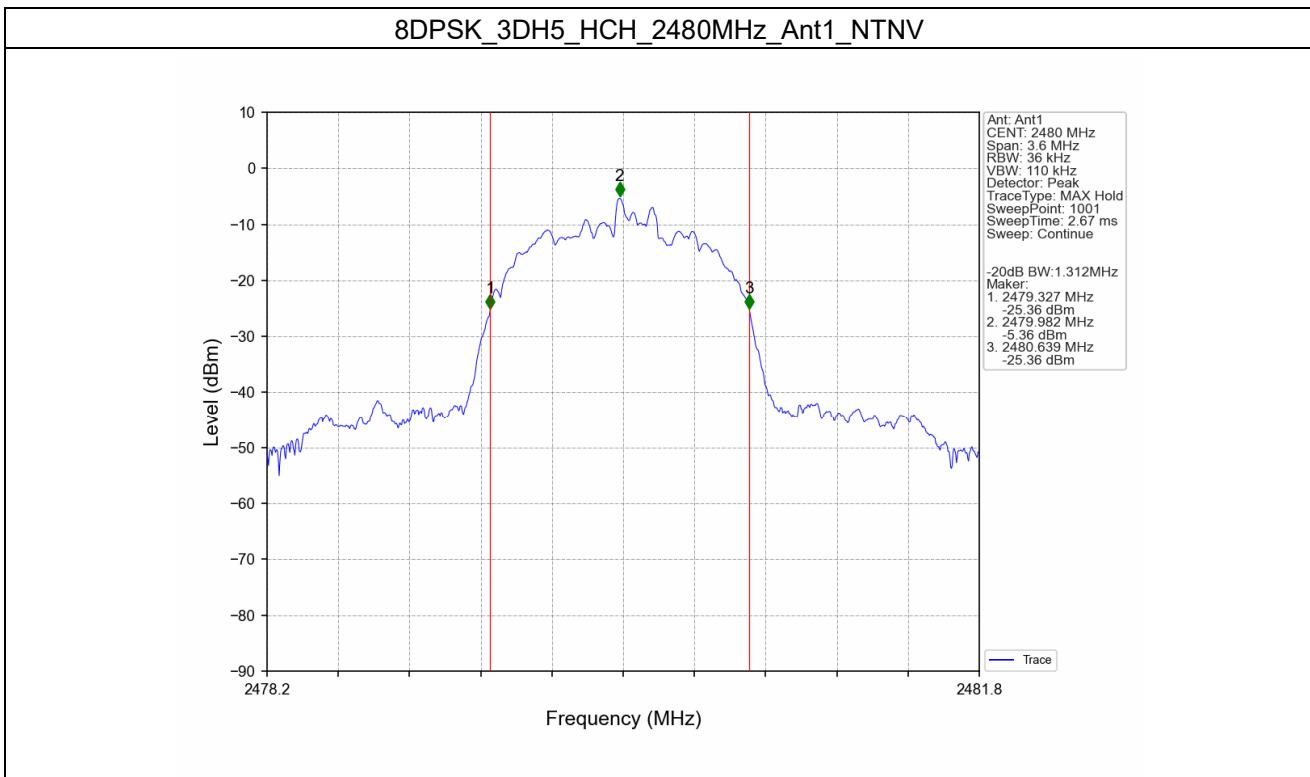
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## 2. Maximum Conducted Output Power

### 2.1 Test Result

#### 2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-4.09	<=30	Pass
		2441	DH5	-3.79	<=30	Pass
		2480	DH5	-4.24	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-2.28	<=20.97	Pass
		2441	2DH5	-2.42	<=20.97	Pass
		2480	2DH5	-2.45	<=20.97	Pass
8DPSK	SISO	2402	3DH5	<b>-2.04</b>	<=20.97	Pass
		2441	3DH5	-2.15	<=20.97	Pass
		2480	3DH5	-2.06	<=20.97	Pass



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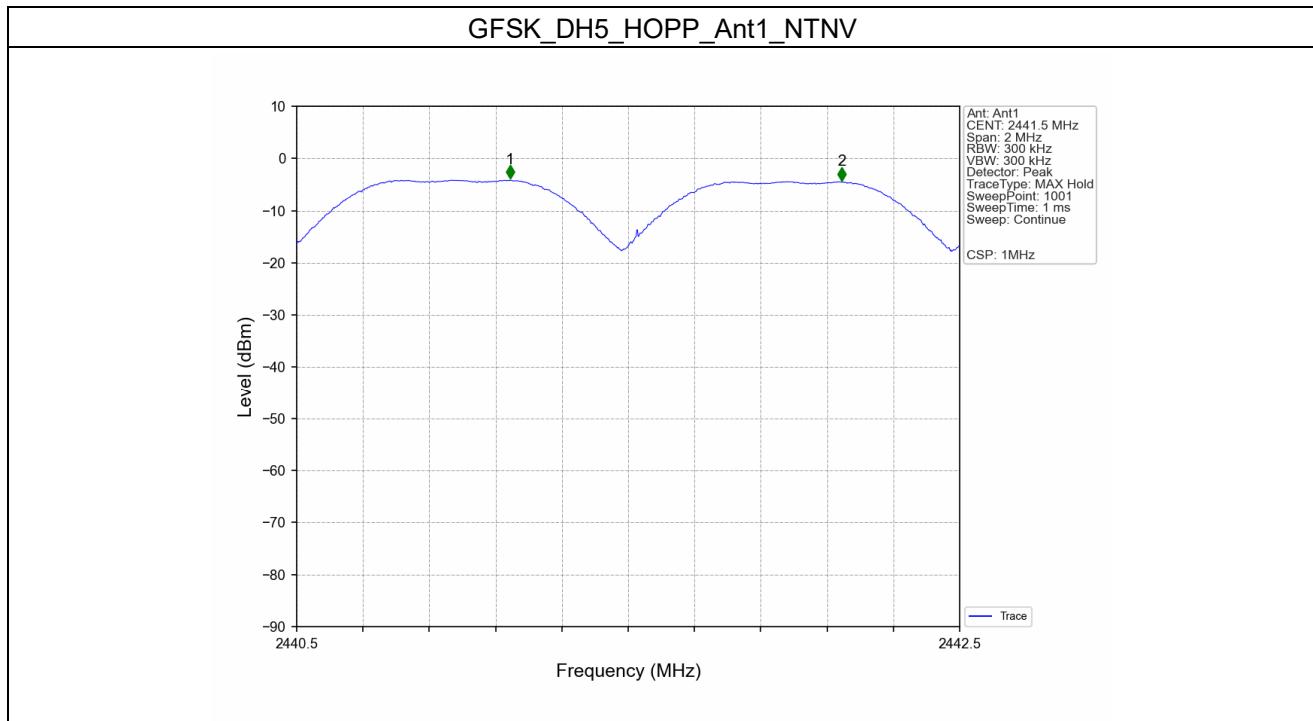
#### 3.1 Test Result

##### 3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.959	>=0.959	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.322	>=0.881	Pass
8DPSK	SISO	HOPP	3DH5	0.953	1.313	>=0.875	Pass

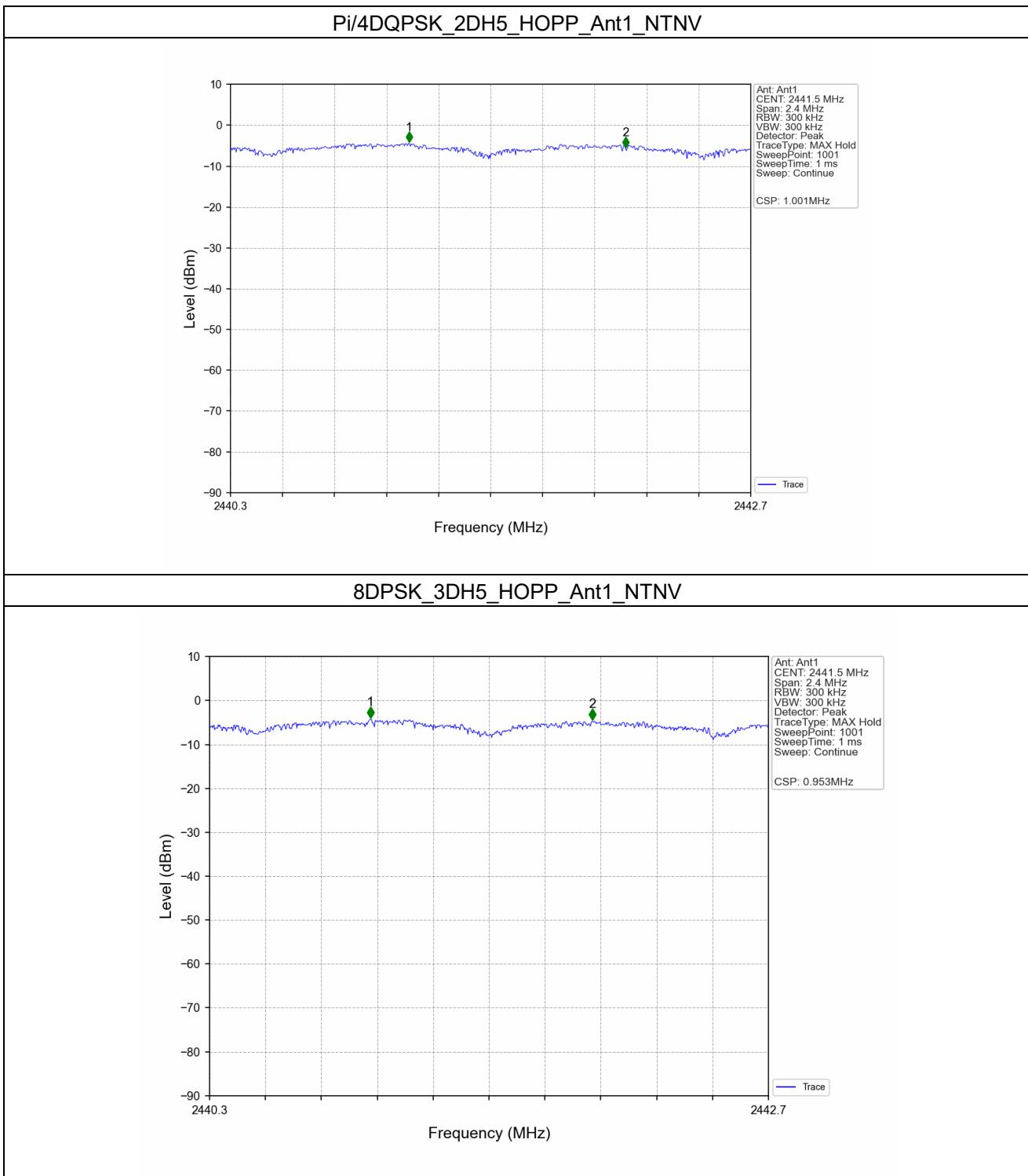
#### 3.2 Test Graph

##### 3.2.1 Ant1



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## 4. Number of Hopping Frequencies

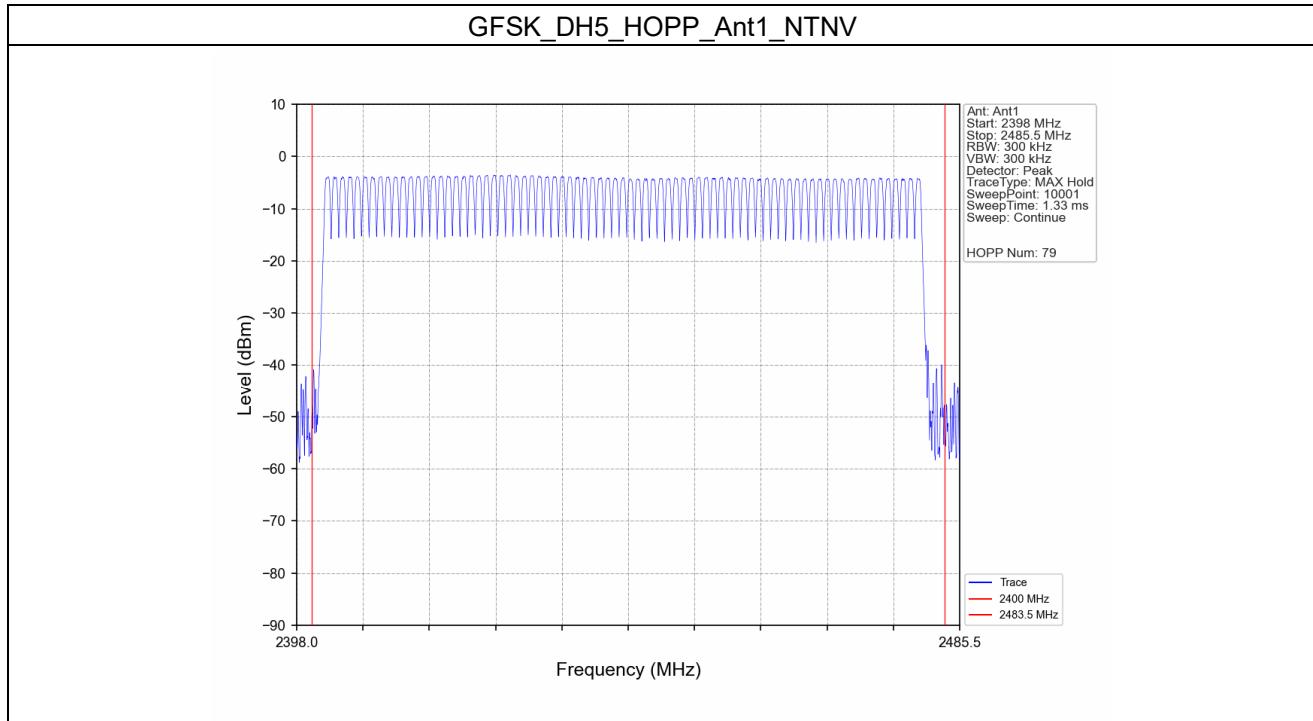
### 4.1 Test Result

#### 4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

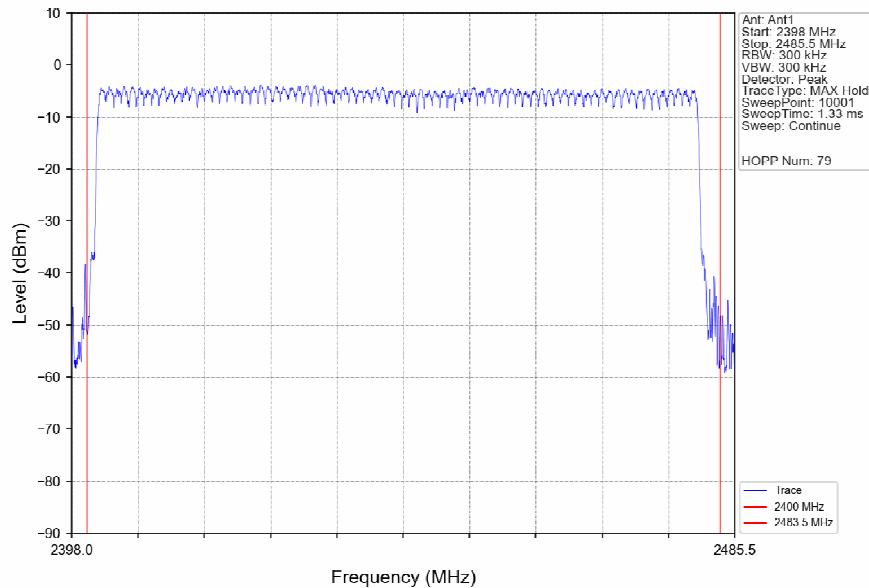
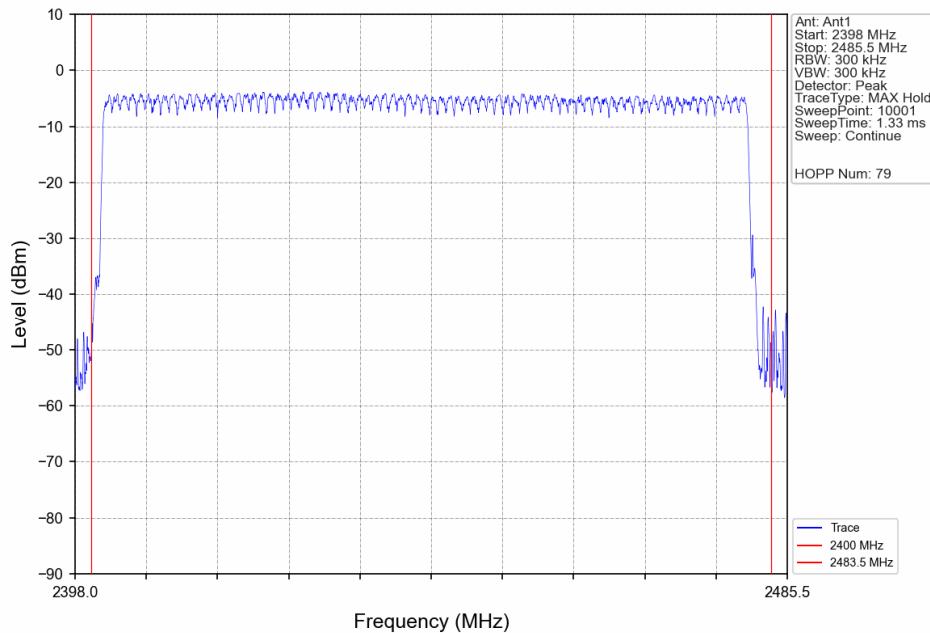
### 4.2 Test Graph

#### 4.2.1 HoppNum



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**Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV****8DPSK\_3DH5\_HOPP\_Ant1\_NTNV**

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## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

#### 5.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.400	31.600	320	128.000	<=400	Pass
			DH3	1.664	31.600	162	269.568	<=400	Pass
			DH5	2.914	31.600	114	332.196	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.410	31.600	320	131.200	<=400	Pass
			2DH3	1.660	31.600	151	250.660	<=400	Pass
			2DH5	2.910	31.600	112	325.920	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.410	31.600	320	131.200	<=400	Pass
			3DH3	1.660	31.600	167	277.220	<=400	Pass
			3DH5	2.922	31.600	104	303.888	<=400	Pass

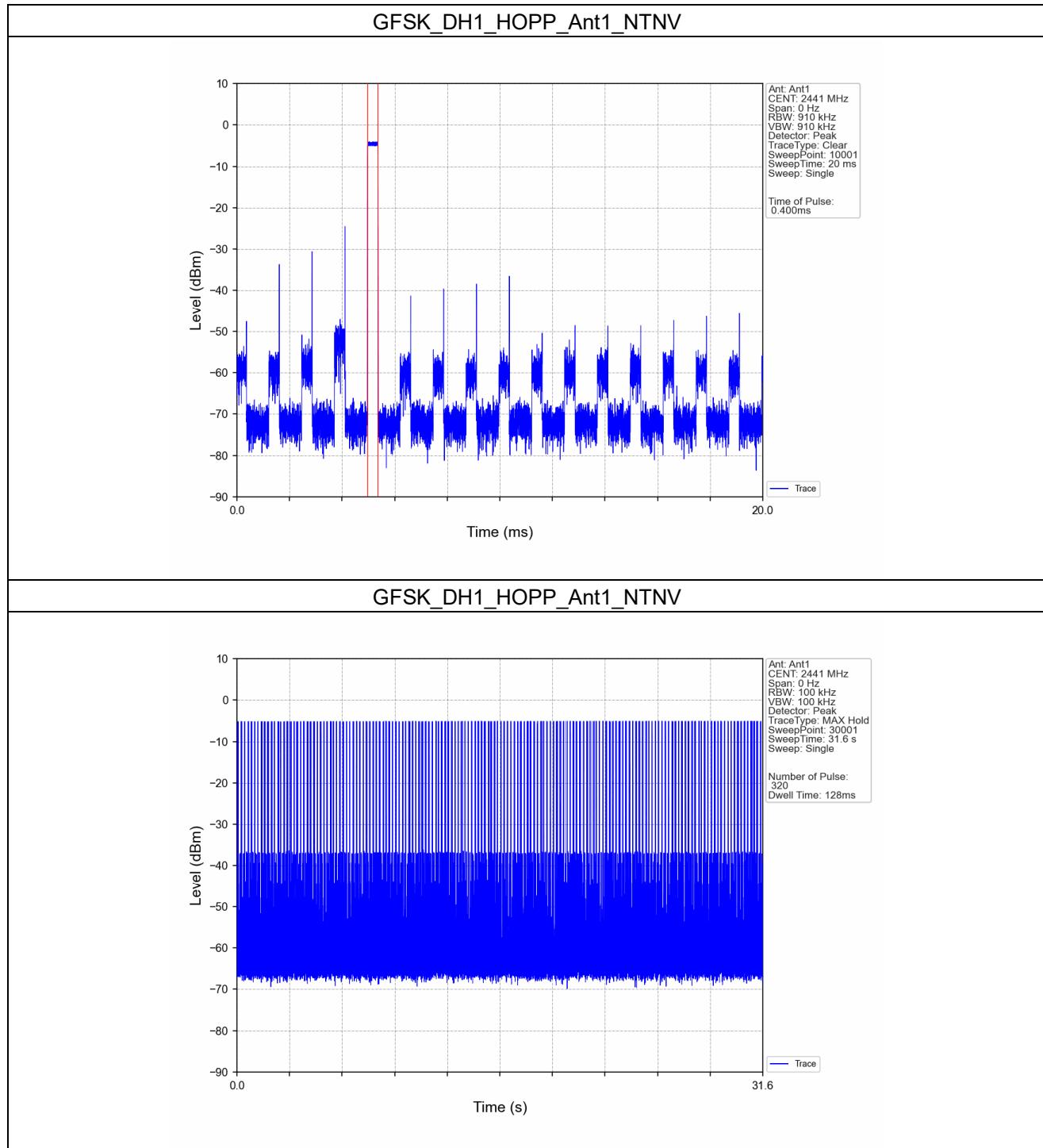
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## 5.2 Test Graph

### 5.2.1 Ant1



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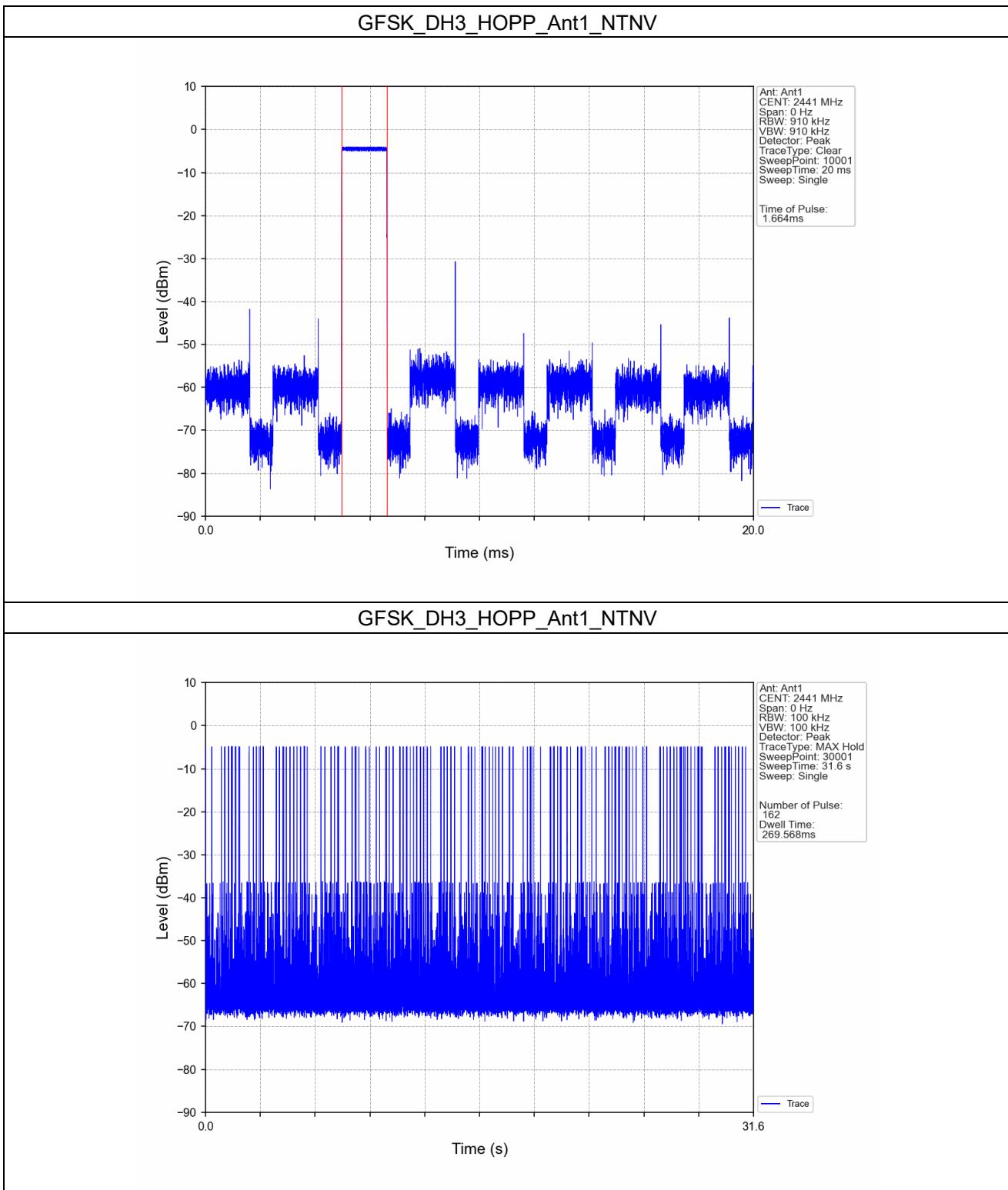
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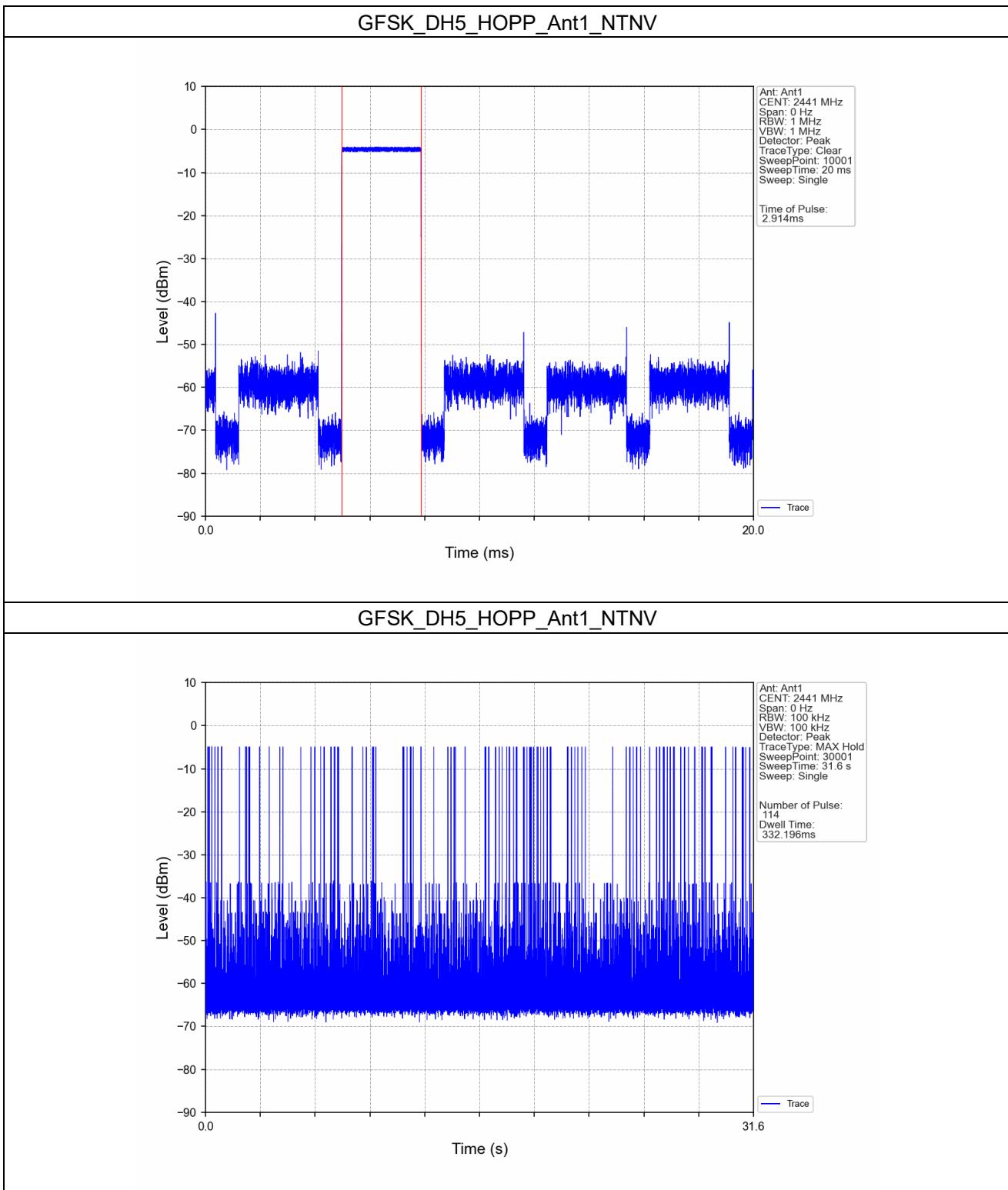
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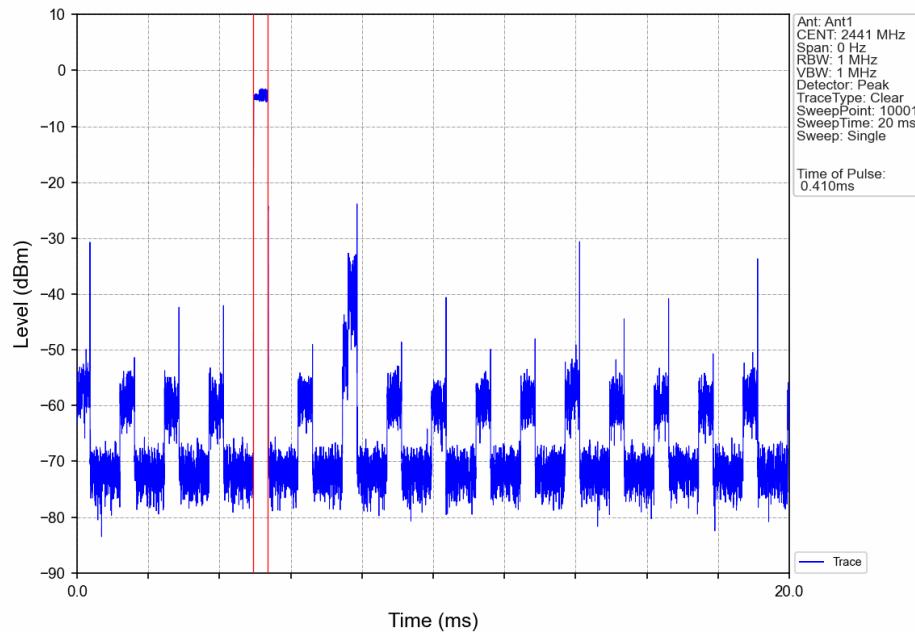
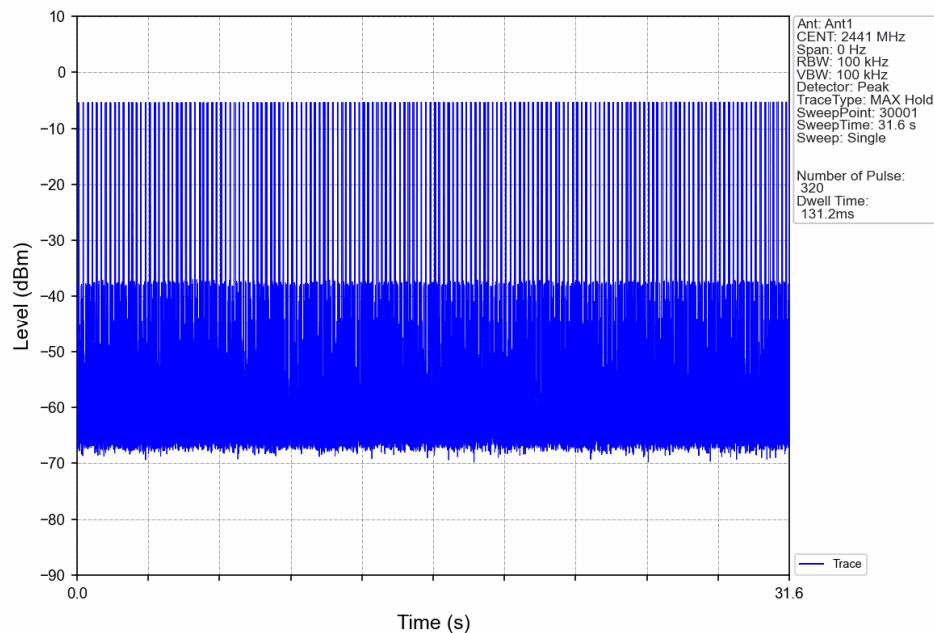
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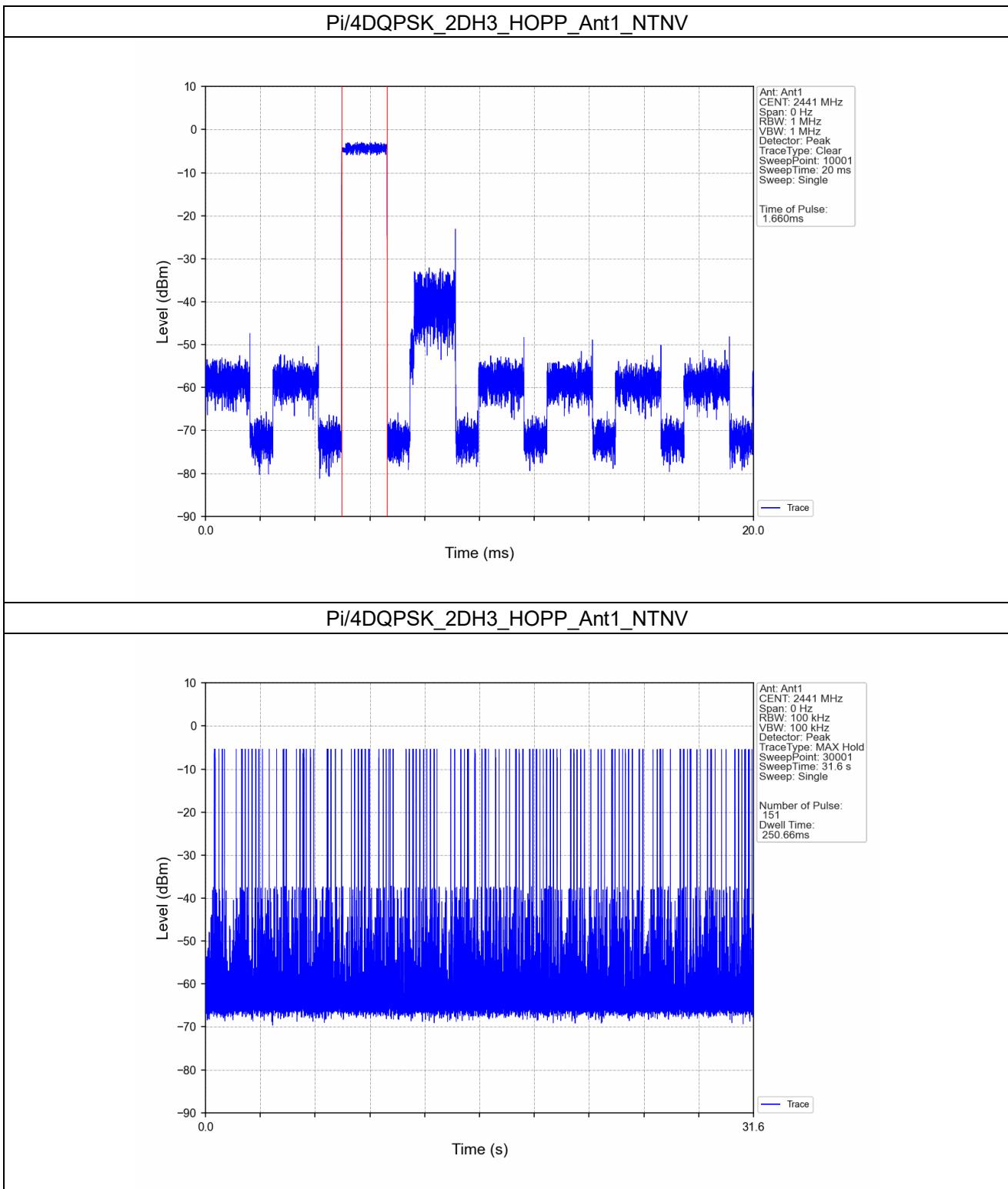
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**Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV****Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV**

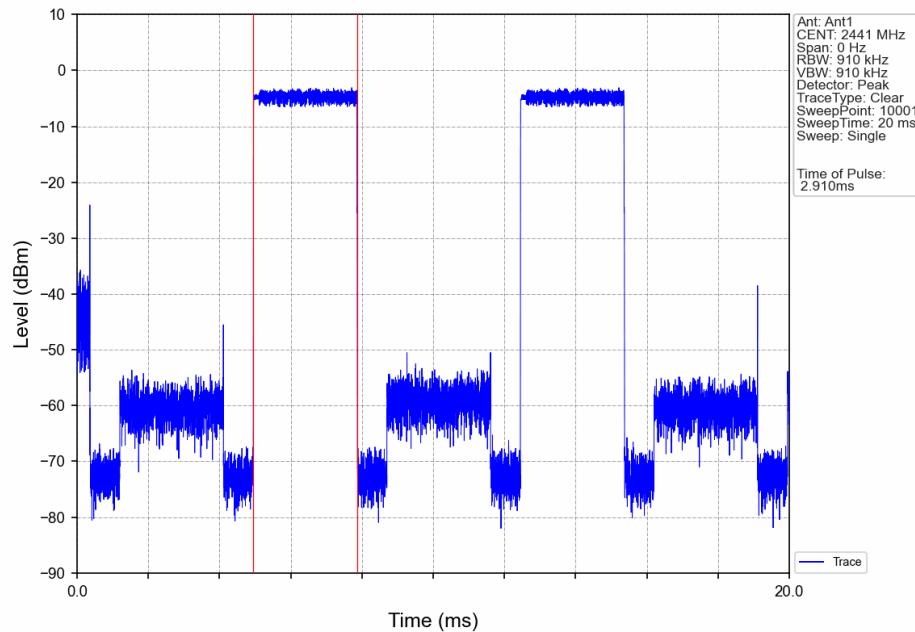
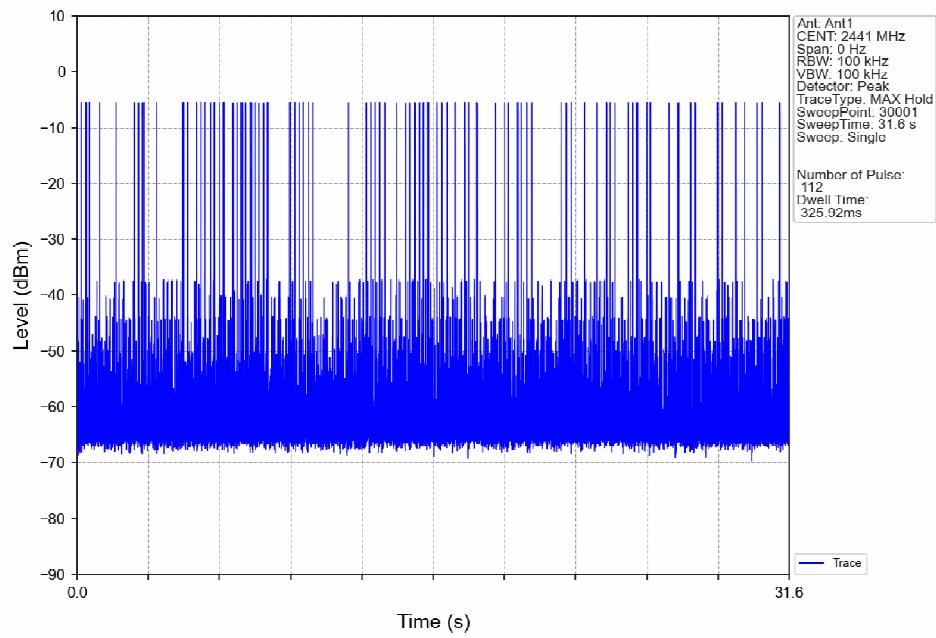
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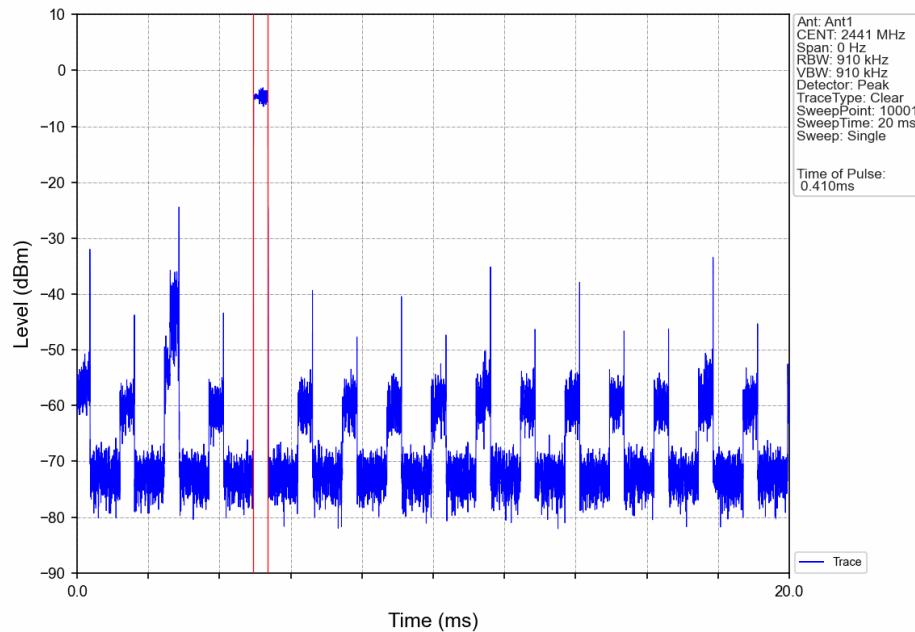
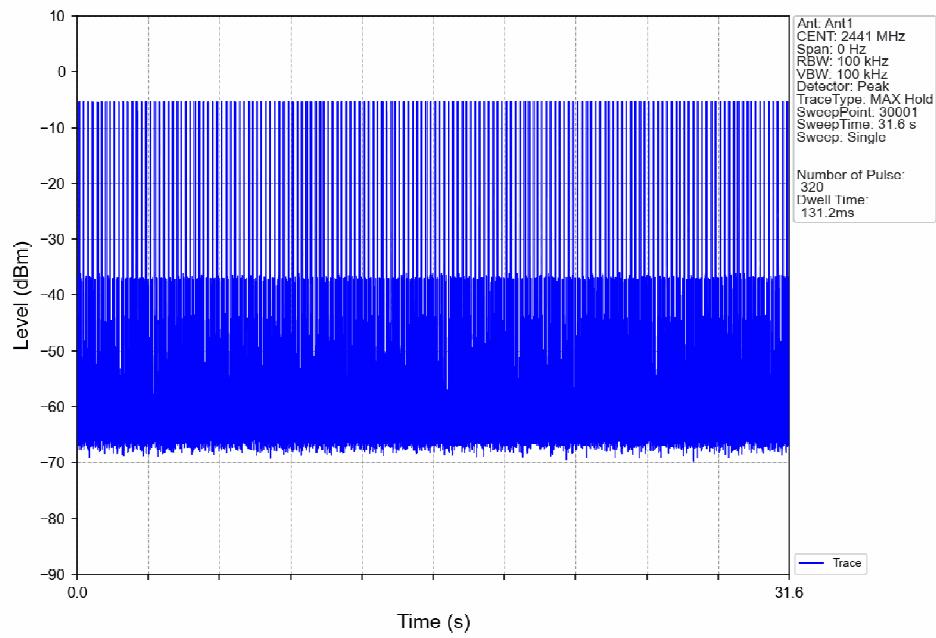
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**Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV****Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV**

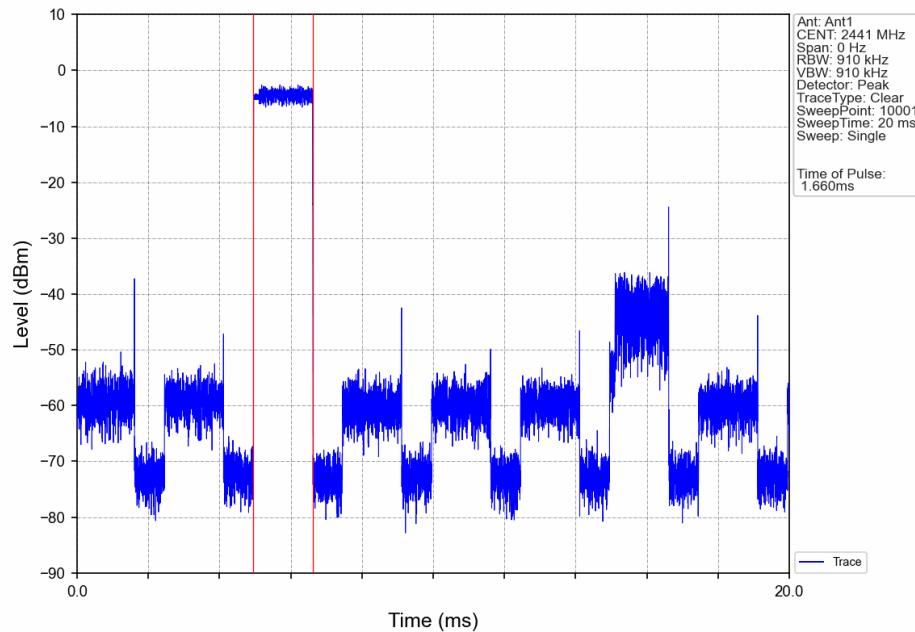
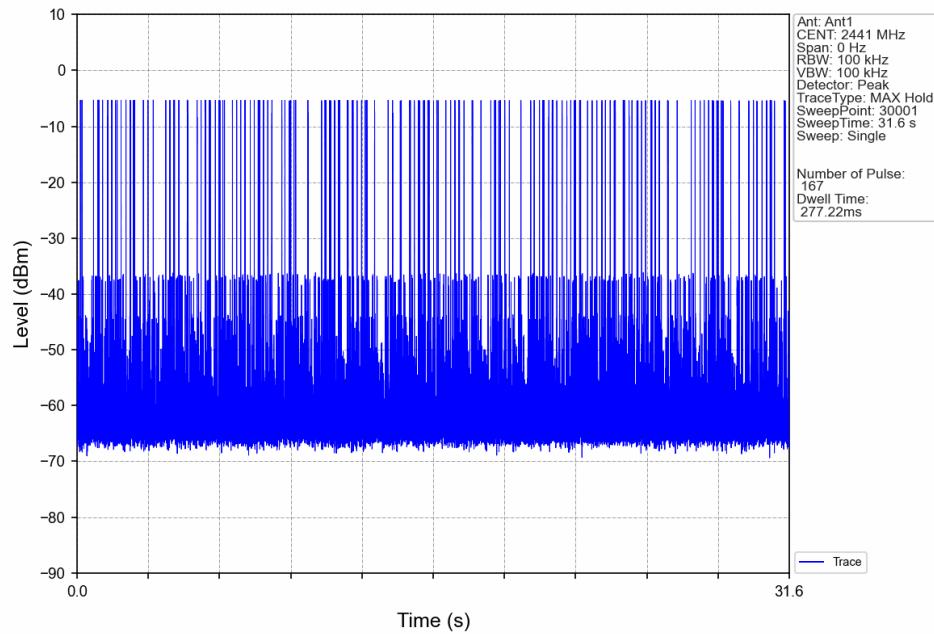
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**8DPSK\_3DH1\_HOPP\_Ant1\_NTNV****8DPSK\_3DH1\_HOPP\_Ant1\_NTNV**

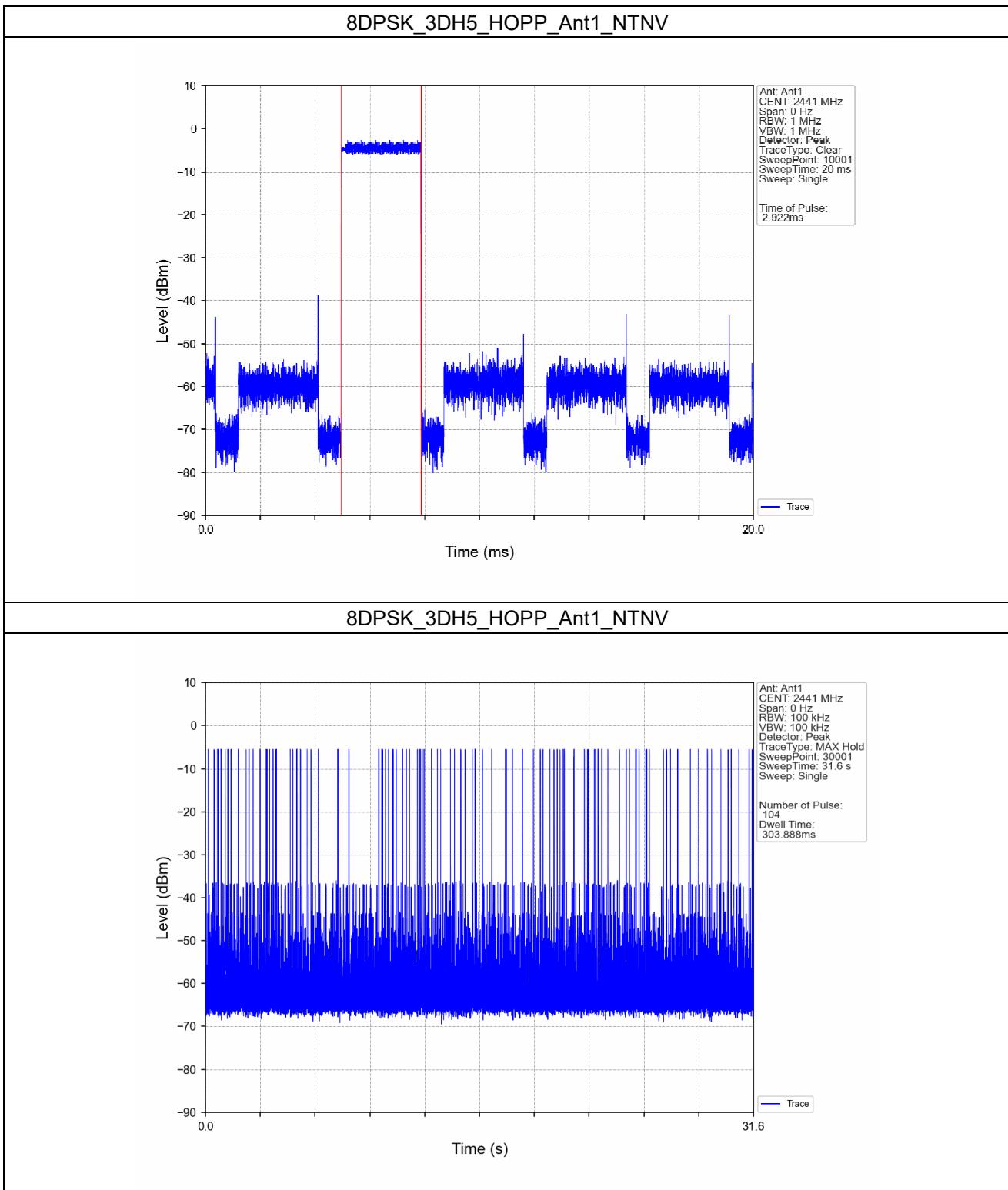
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**8DPSK\_3DH3\_HOPP\_Ant1\_NTNV****8DPSK\_3DH3\_HOPP\_Ant1\_NTNV**

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

### 6.1 Test Result

#### 6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-4.77
		2441	DH5	1	-4.51
		2480	DH5	1	-4.89
Pi/4DQPSK	SISO	2402	2DH5	1	-4.79
		2441	2DH5	1	-4.72
		2480	2DH5	1	-5.10
8DPSK	SISO	2402	3DH5	1	-4.71
		2441	3DH5	1	-5.58
		2480	3DH5	1	-4.83

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.

#### 6.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-4.51	-24.51	Pass
		2441	DH5	1	-4.51	-24.51	Pass
		2480	DH5	1	-4.51	-24.51	Pass
		HOPP	DH5	1	-4.51	-24.51	Pass
					-4.51	-24.51	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-4.72	-24.72	Pass
		2441	2DH5	1	-4.72	-24.72	Pass
		2480	2DH5	1	-4.72	-24.72	Pass
		HOPP	2DH5	1	-4.72	-24.72	Pass
					-4.72	-24.72	Pass
8DPSK	SISO	2402	3DH5	1	-4.71	-24.71	Pass
		2441	3DH5	1	-4.71	-24.71	Pass
		2480	3DH5	1	-4.71	-24.71	Pass
		HOPP	3DH5	1	-4.71	-24.71	Pass
					-4.71	-24.71	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.



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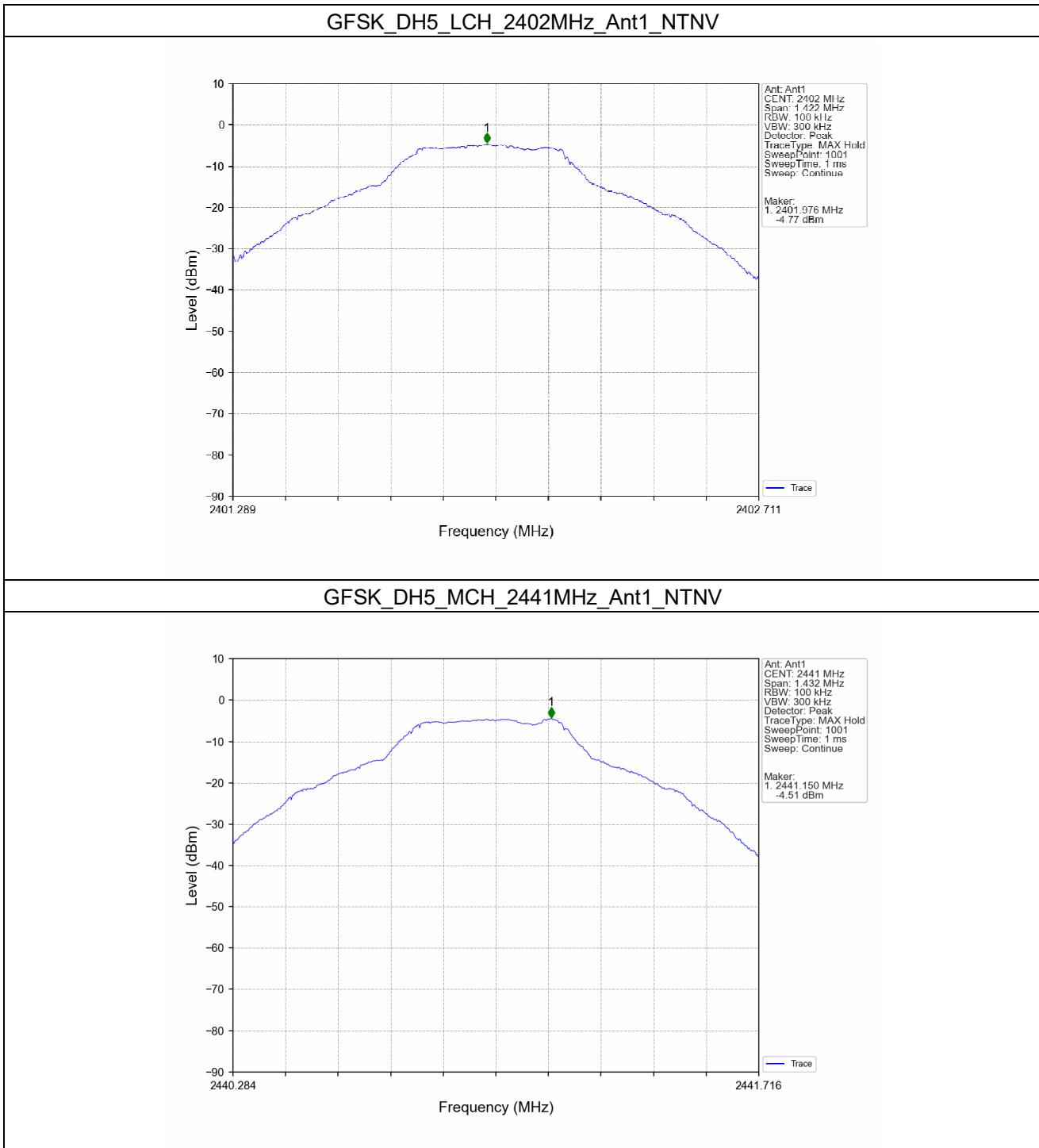
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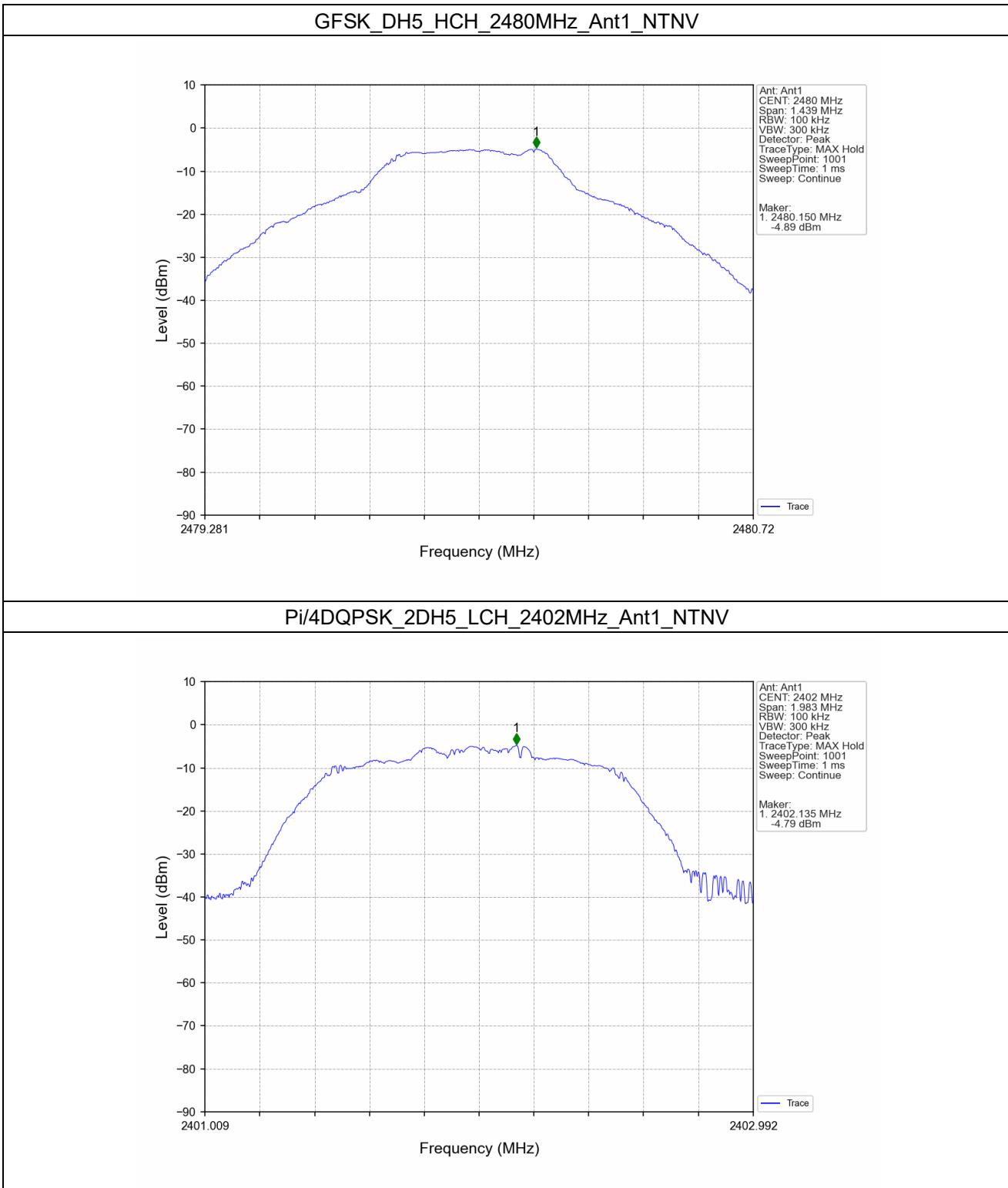
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## 6.2 Test Graph

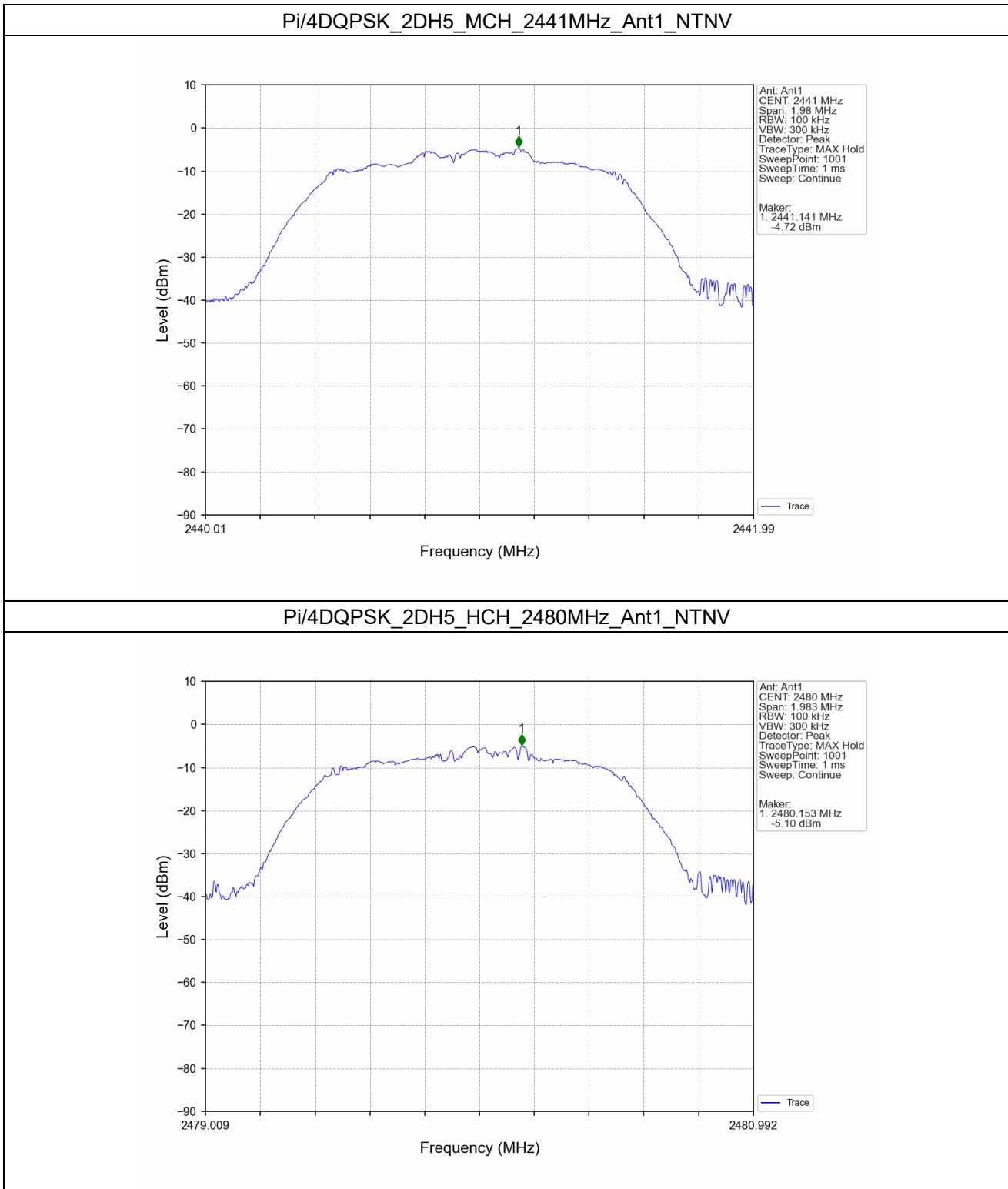
### 6.2.1 Ref





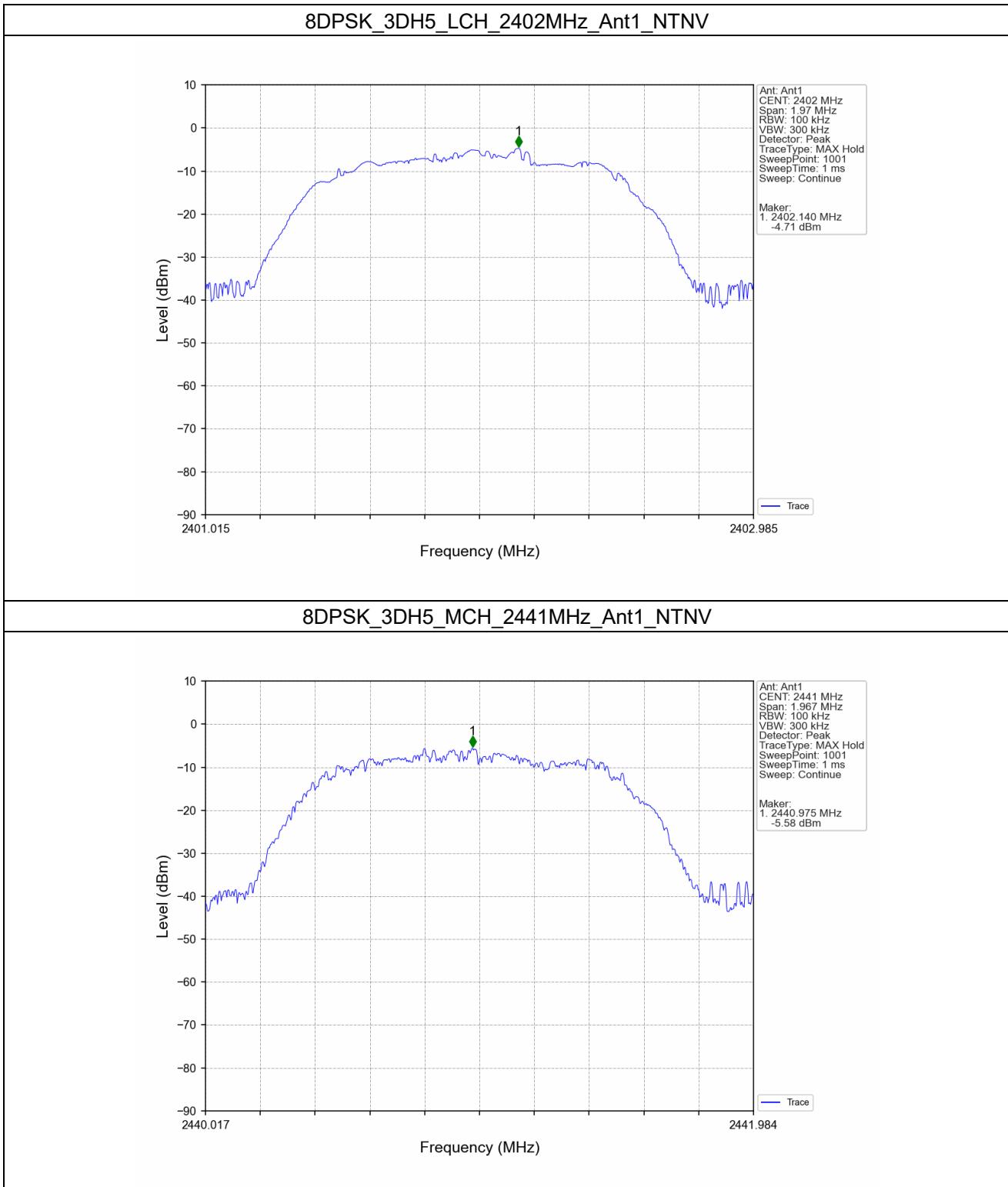
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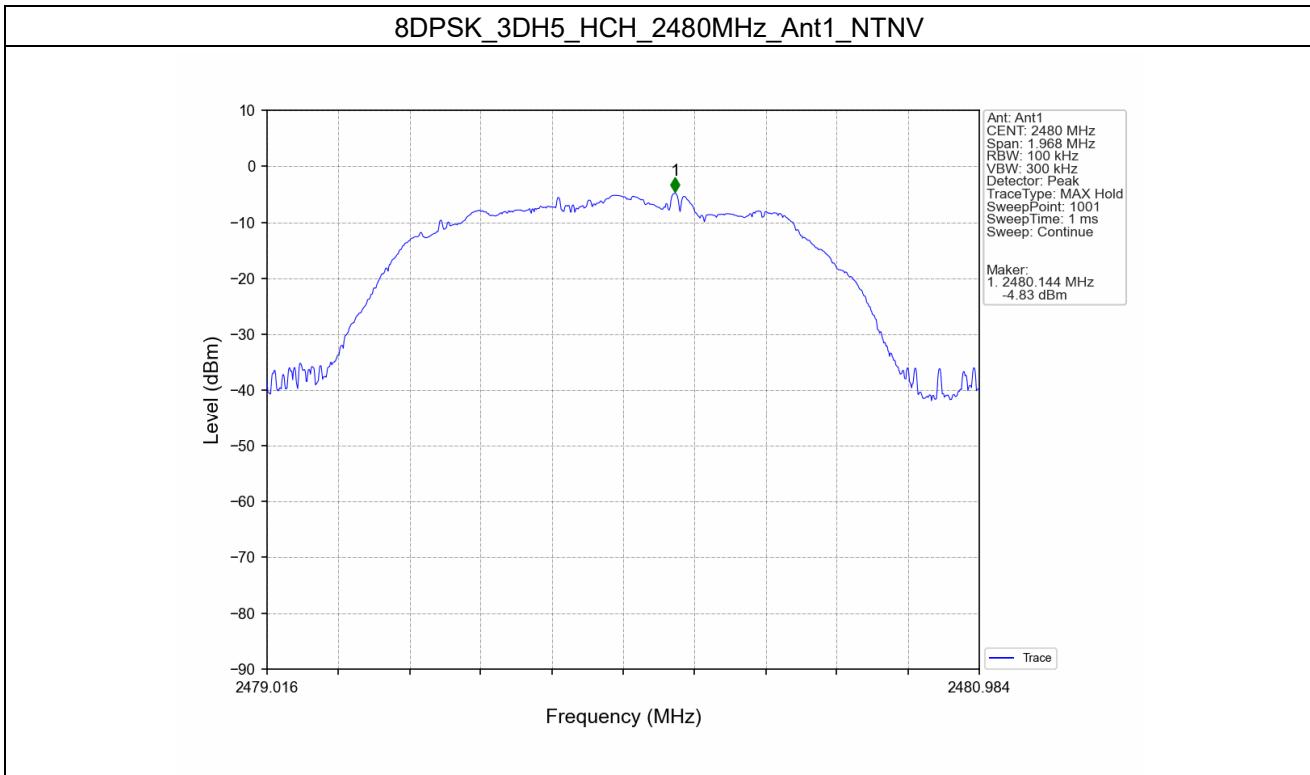
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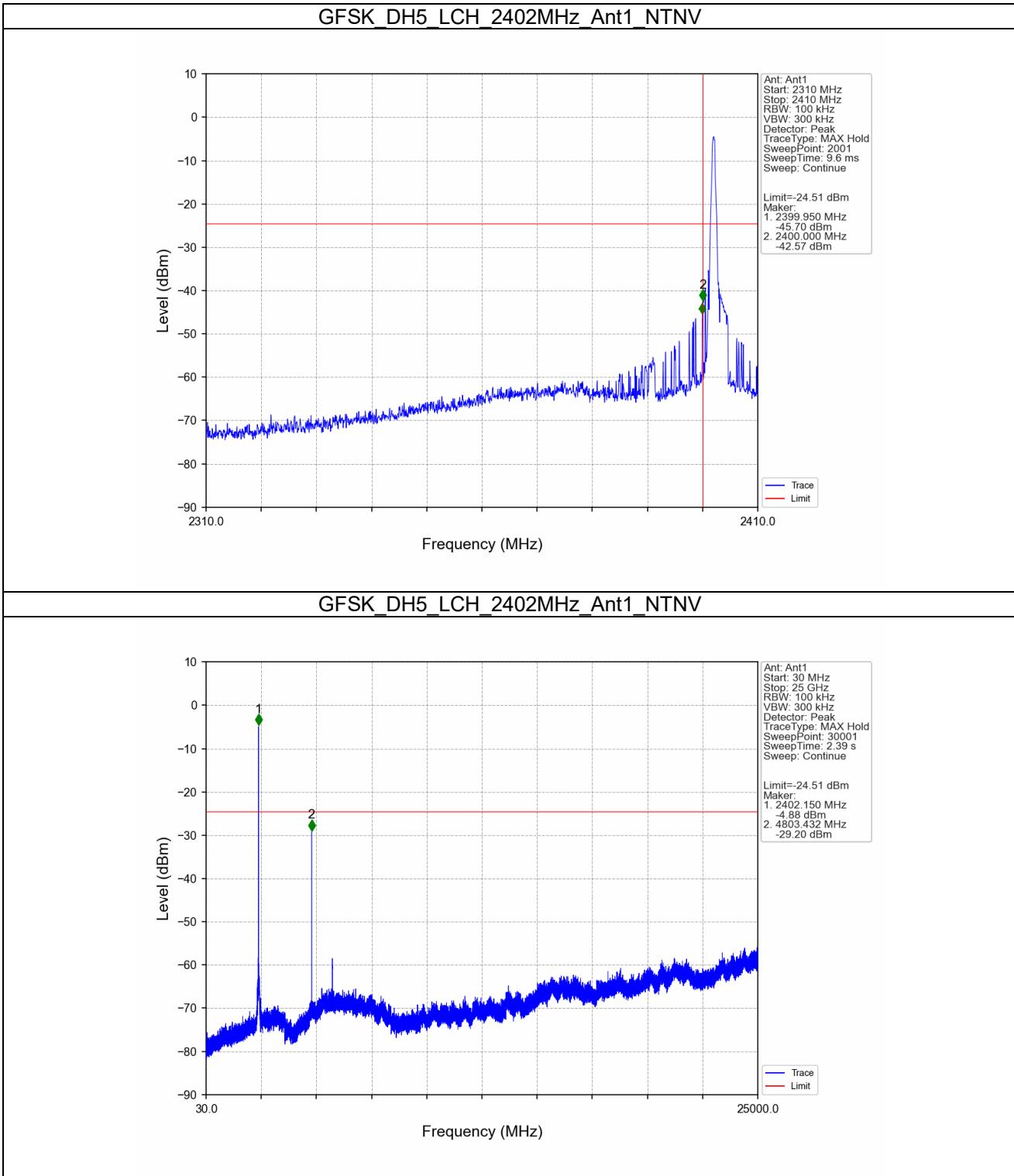
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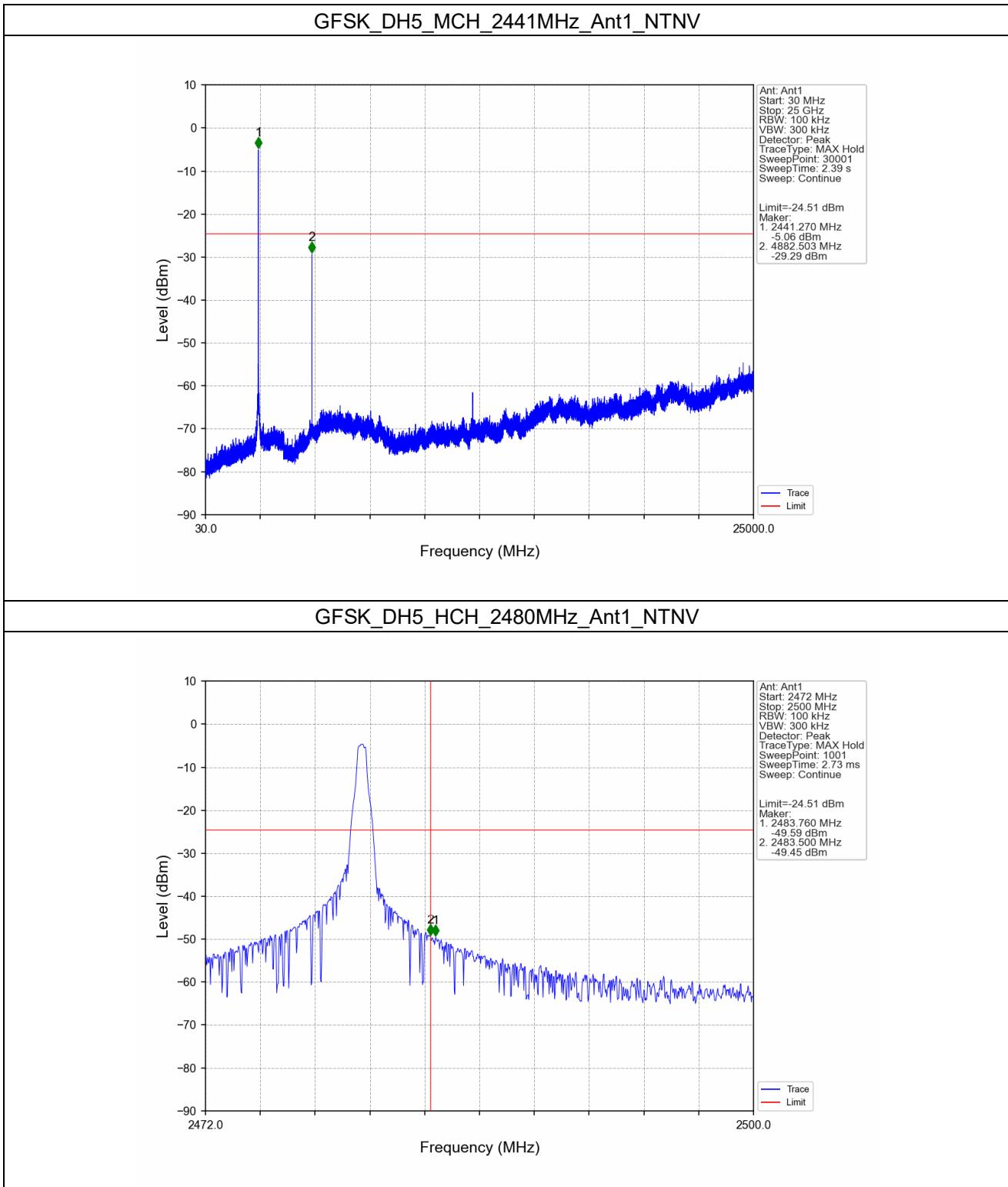


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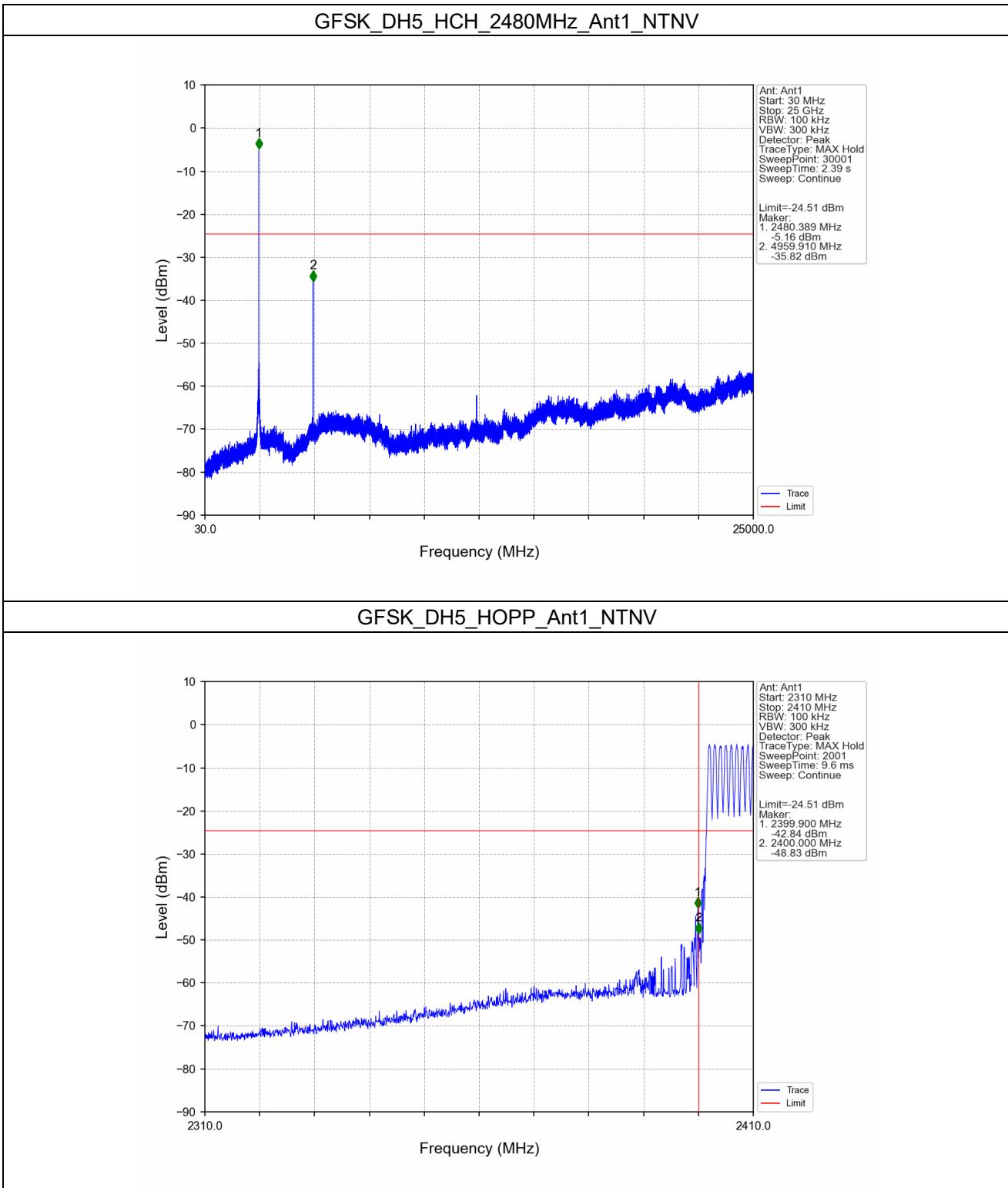
### 6.2.2 CSE and Band Edges





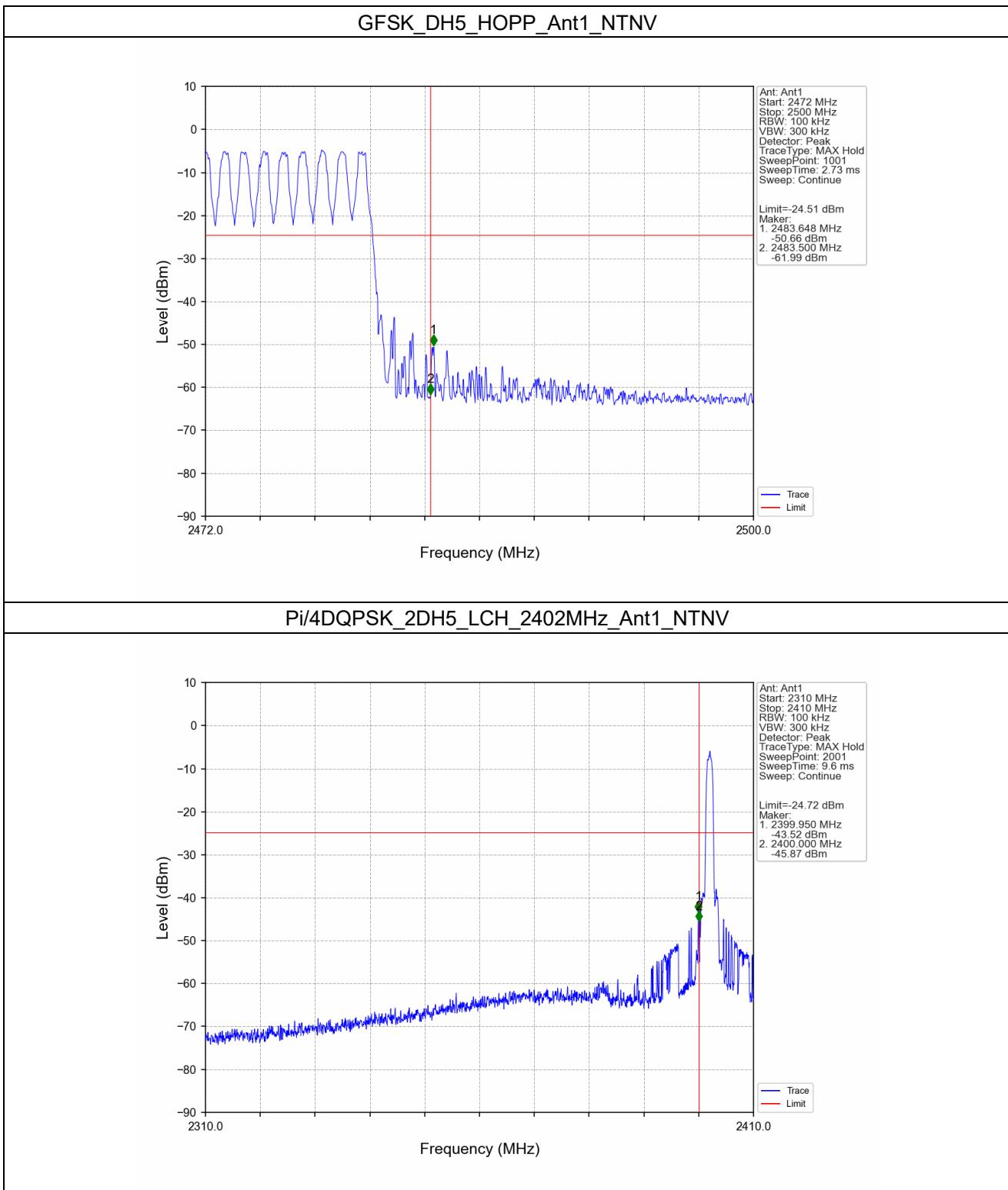
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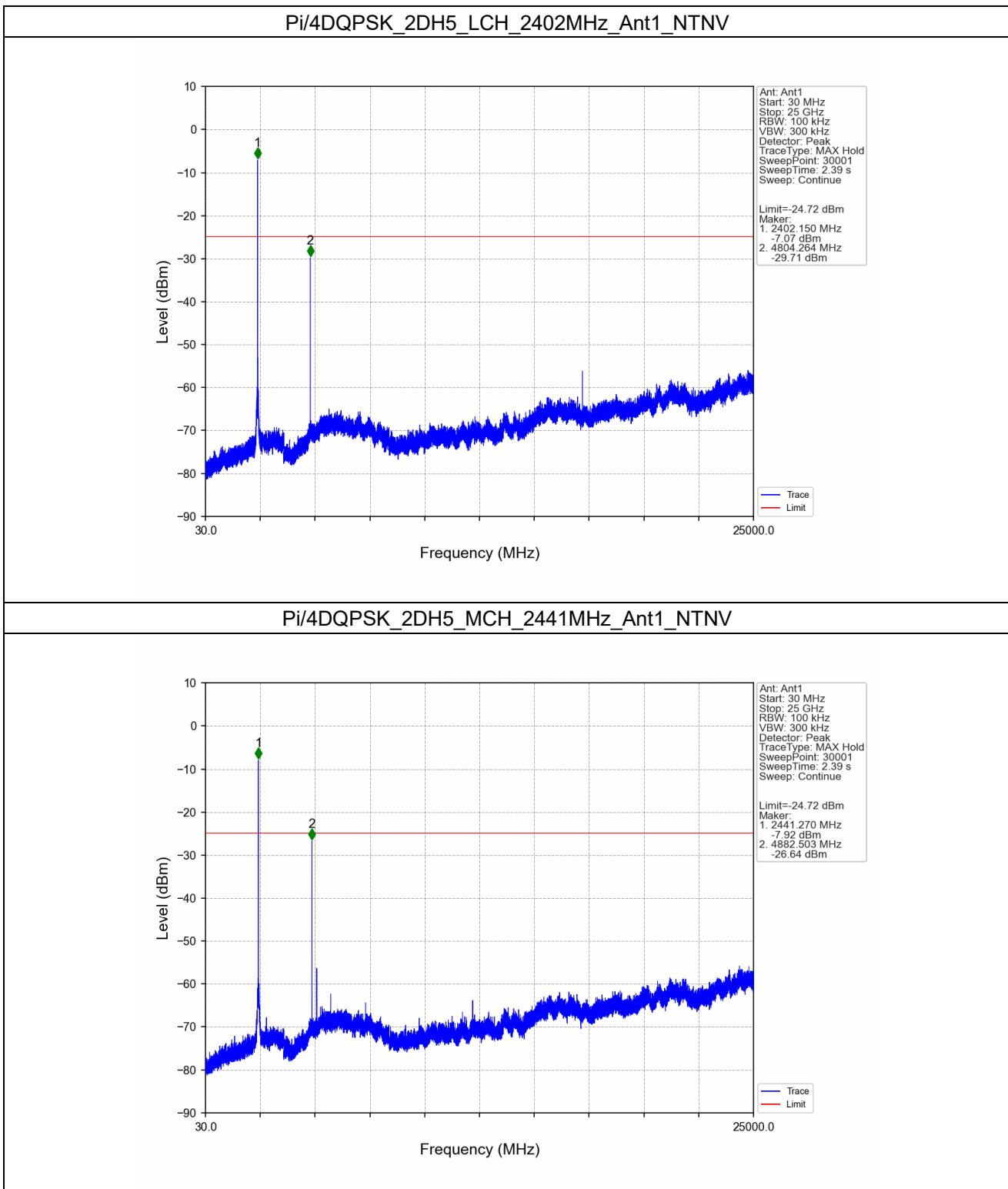
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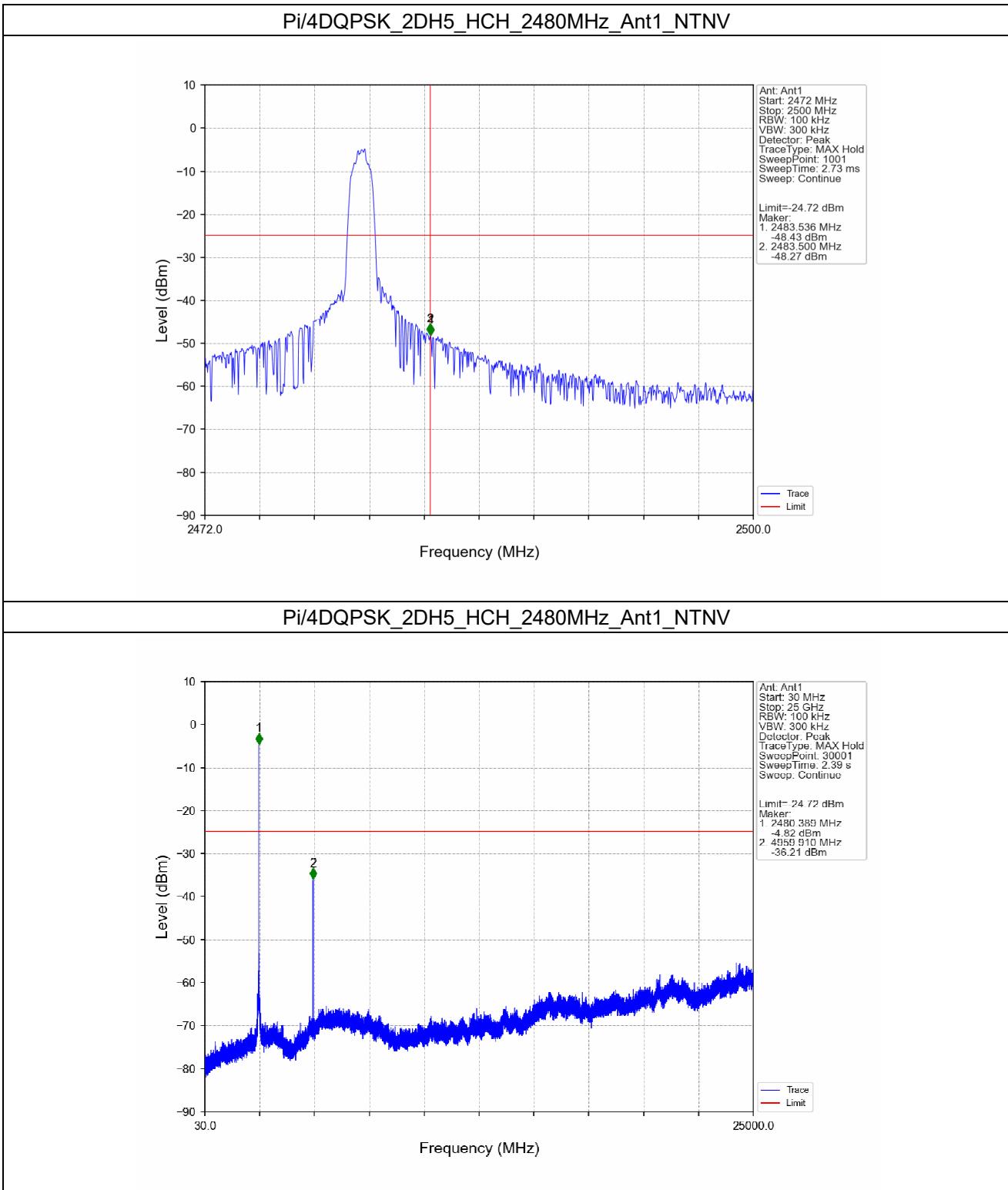
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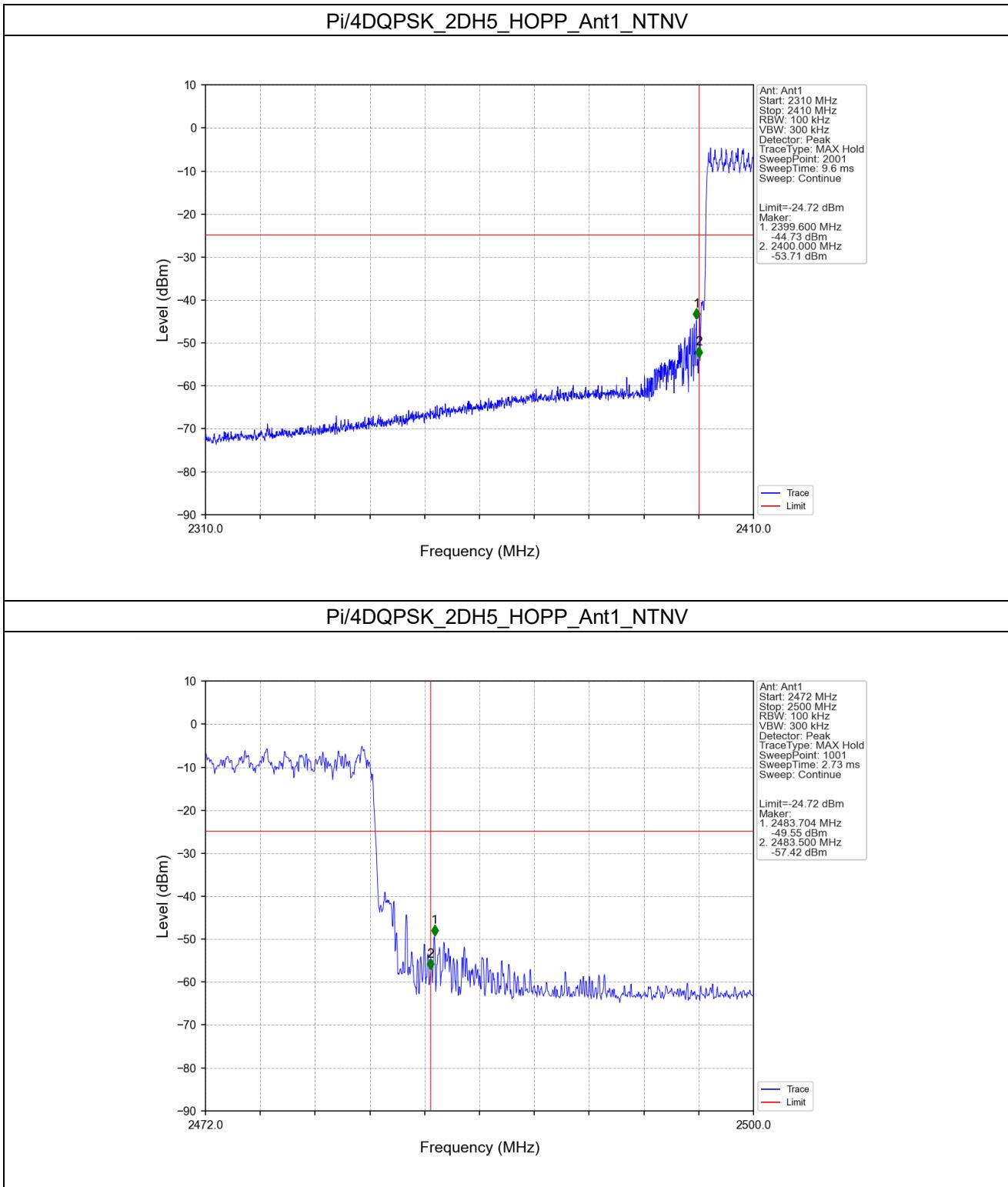
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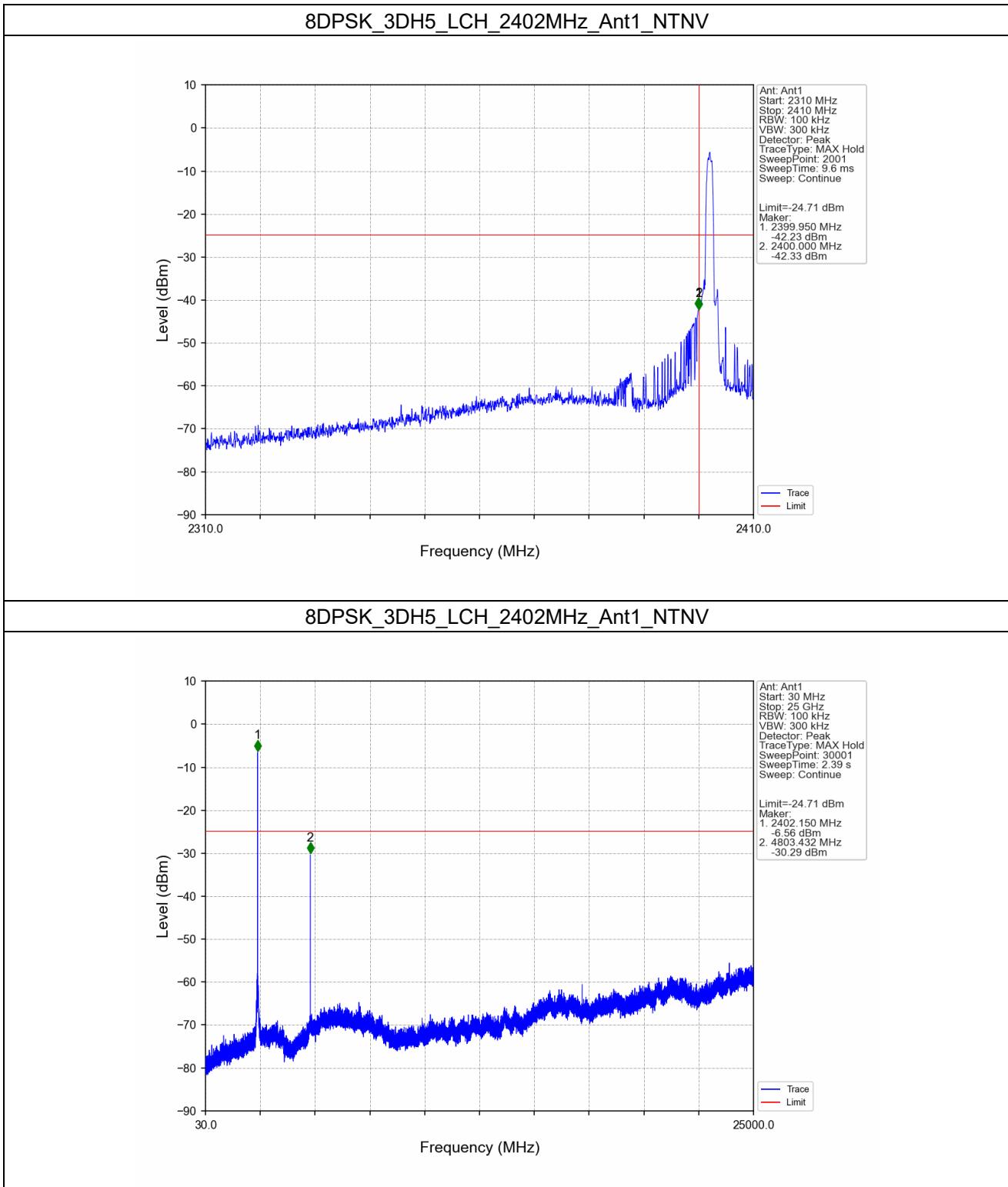
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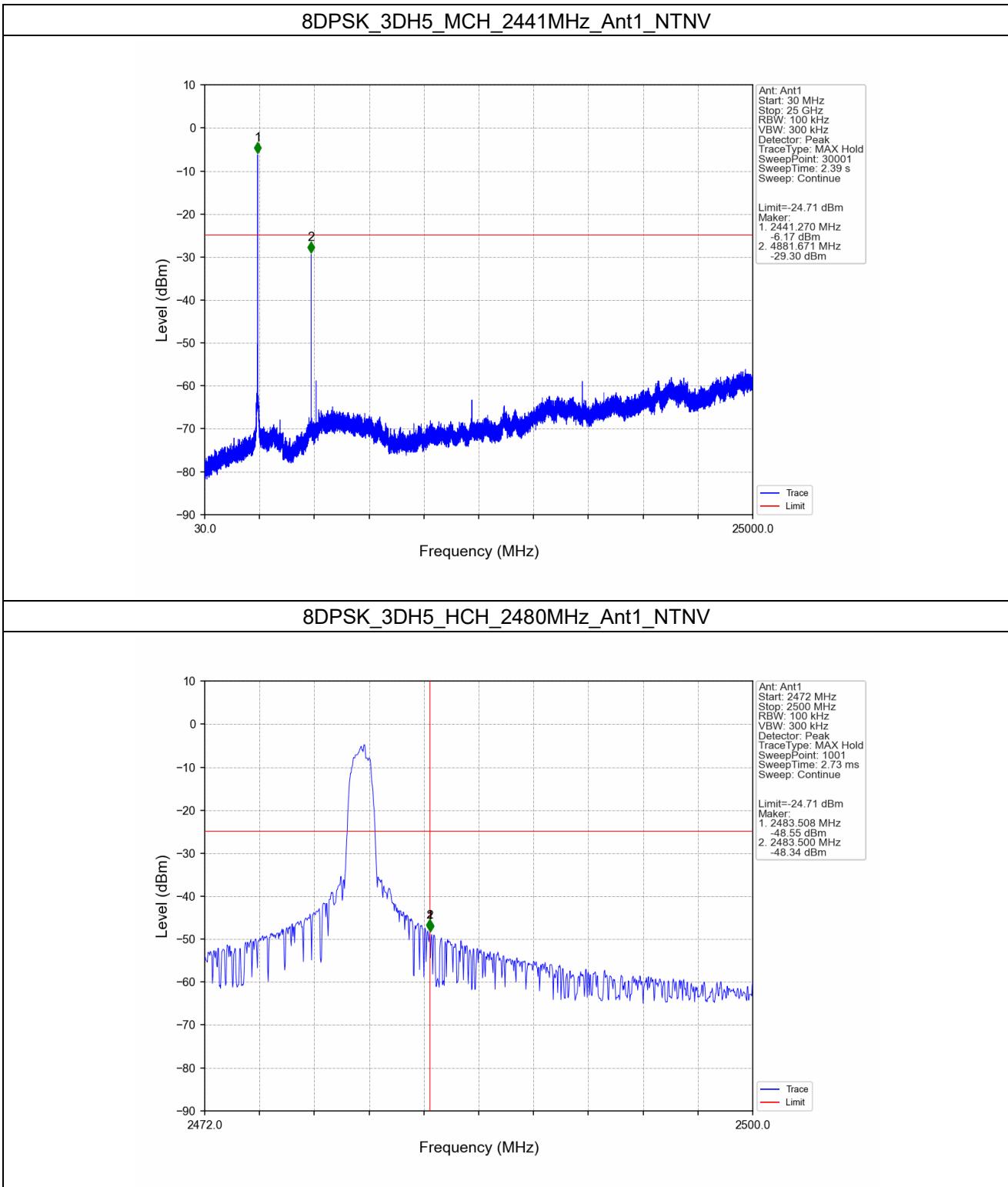
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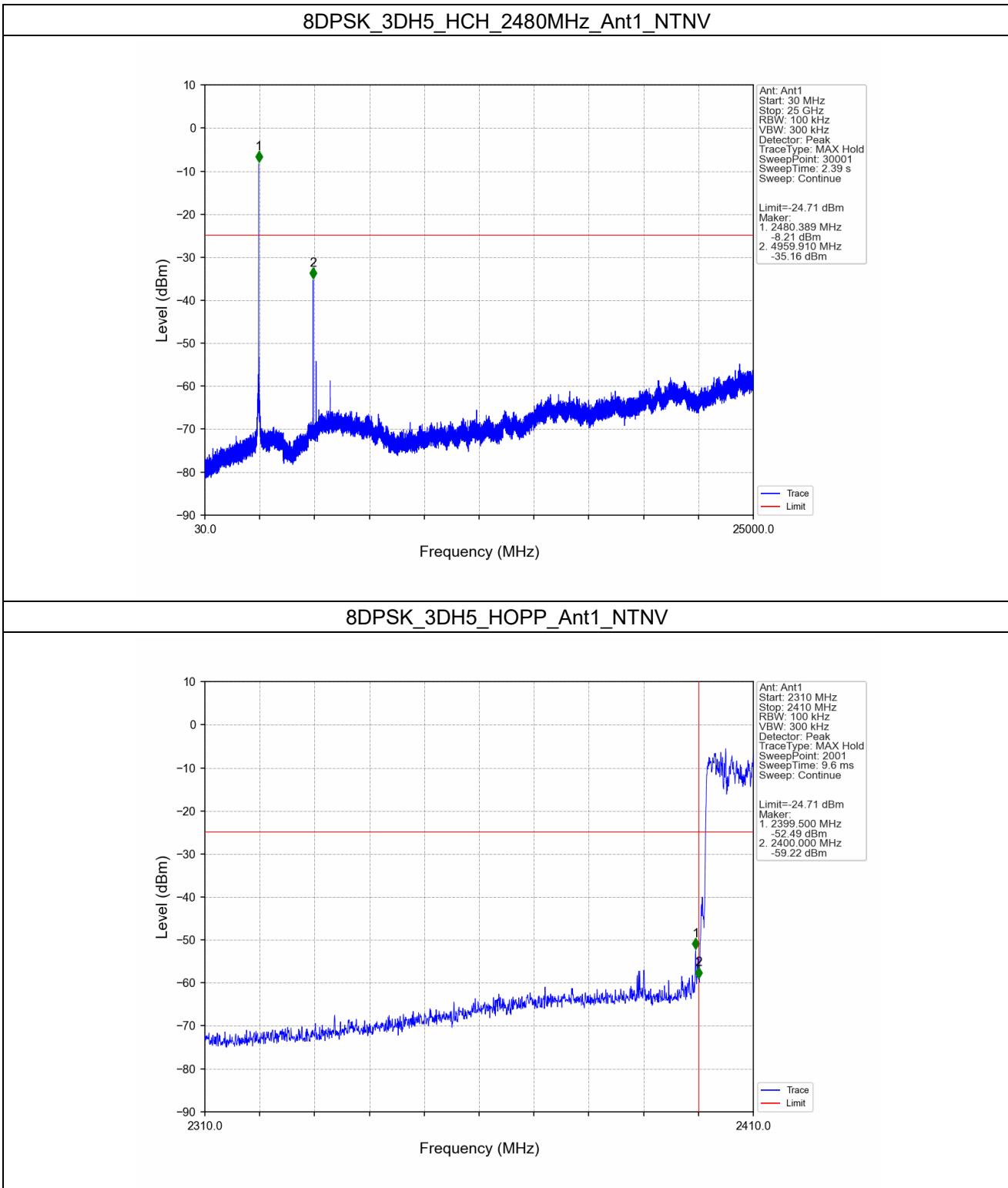
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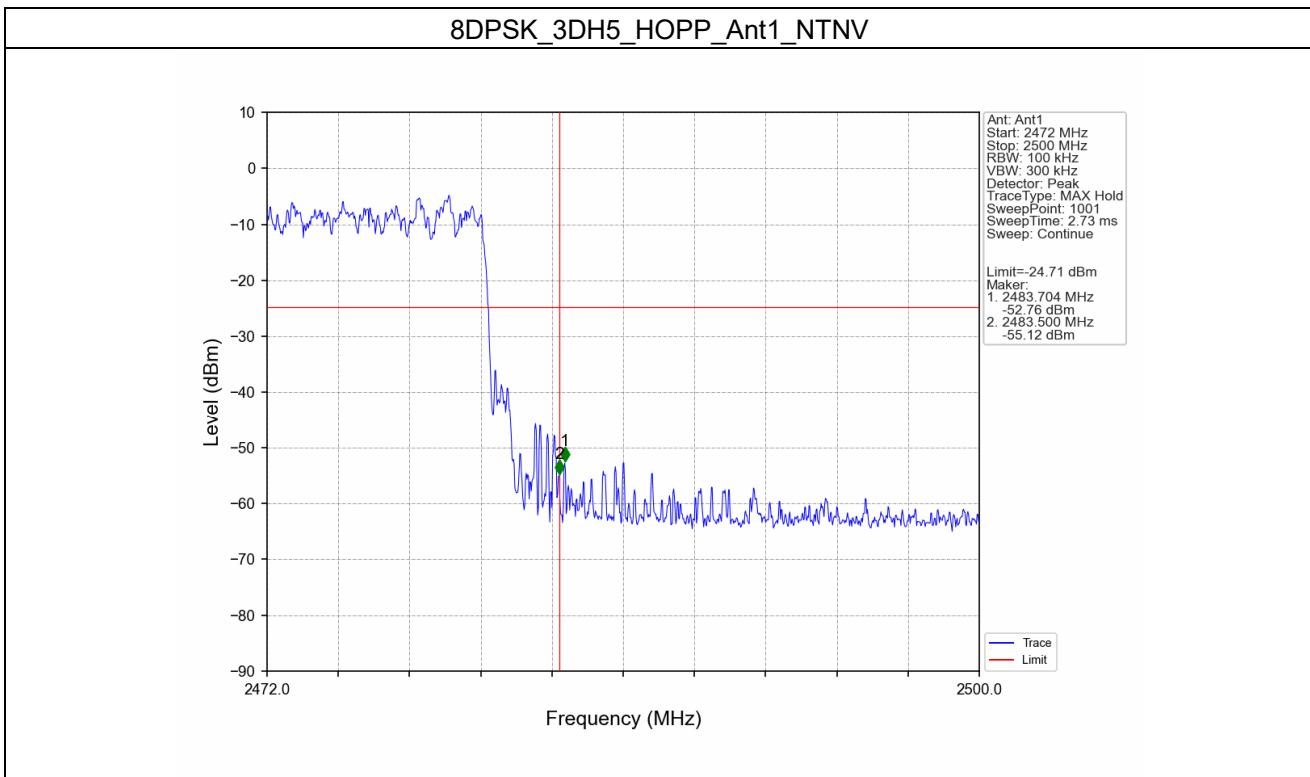
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