

# Appendix

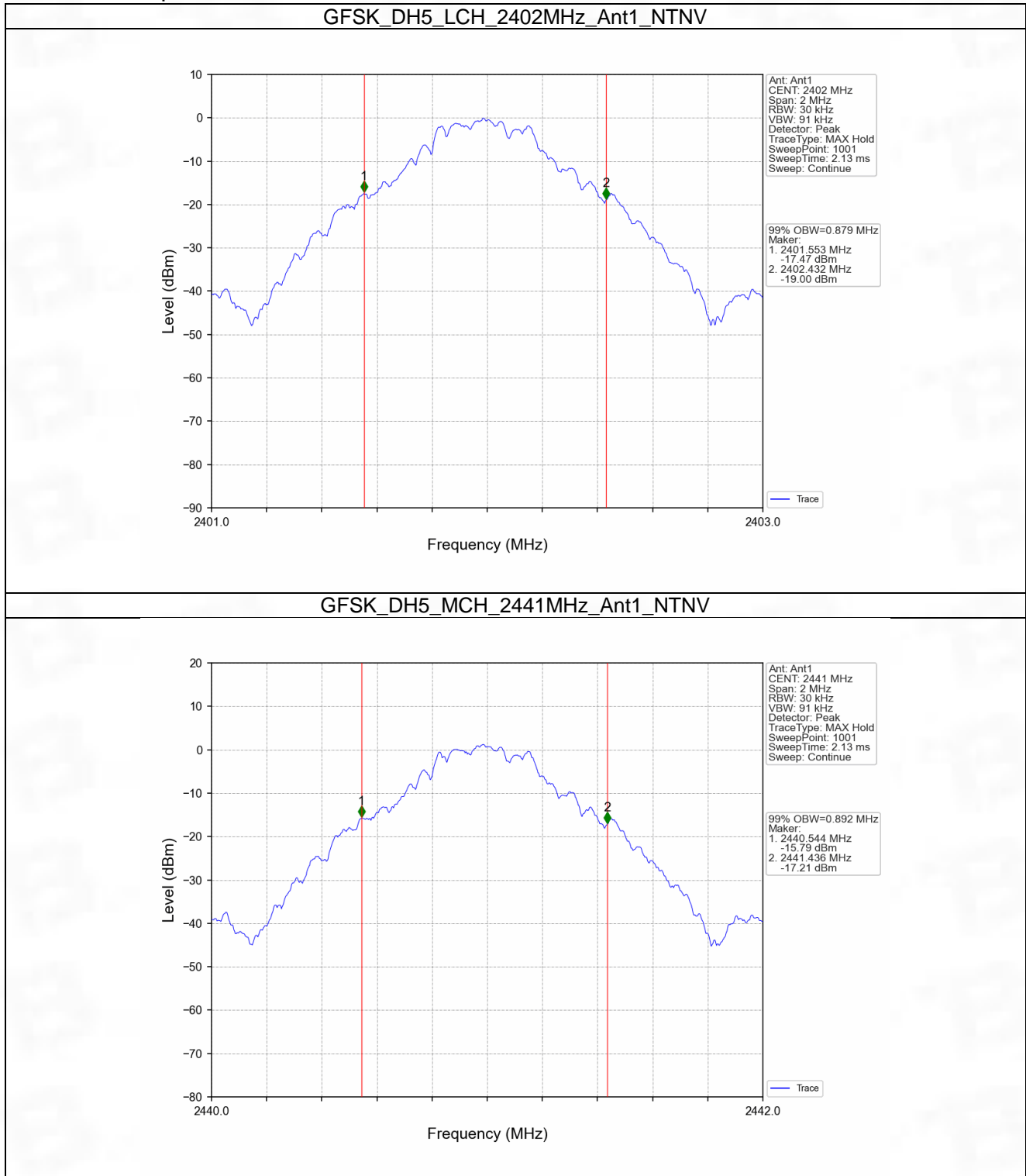
## 1. Bandwidth

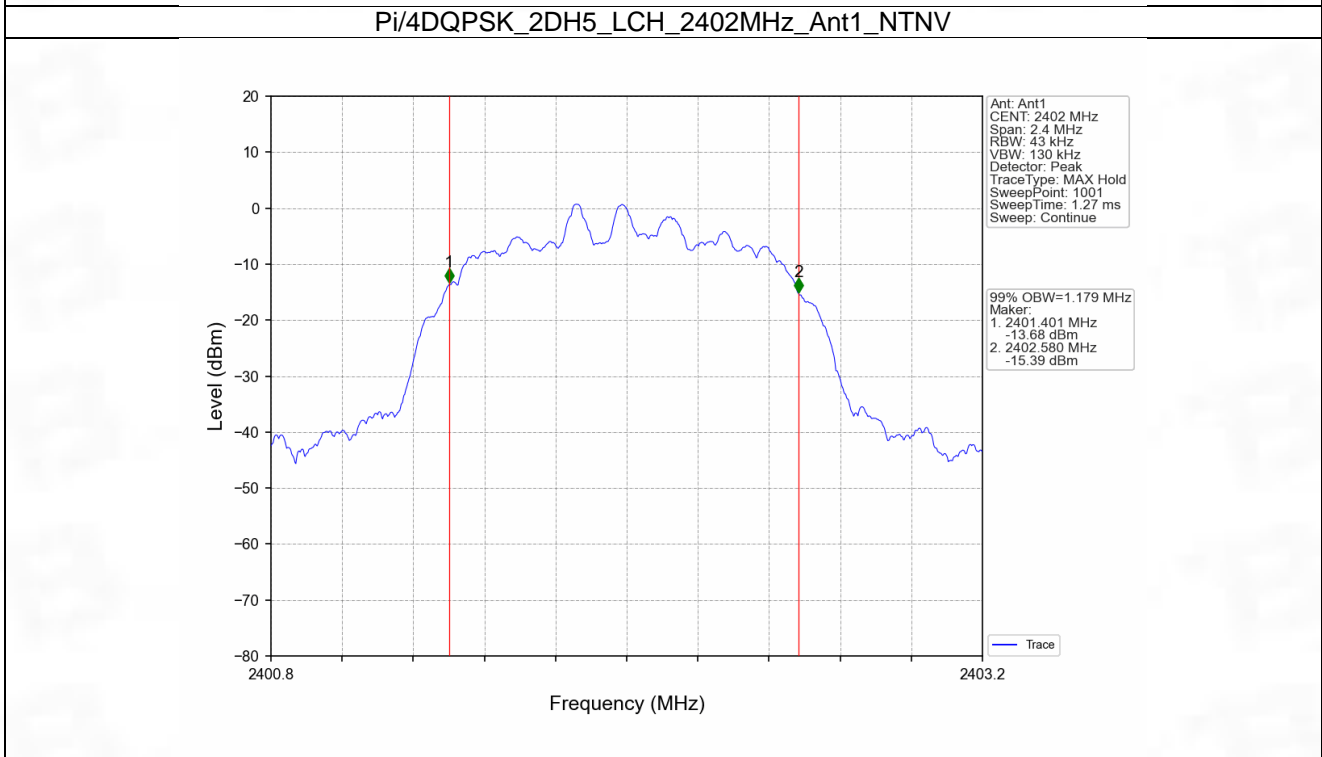
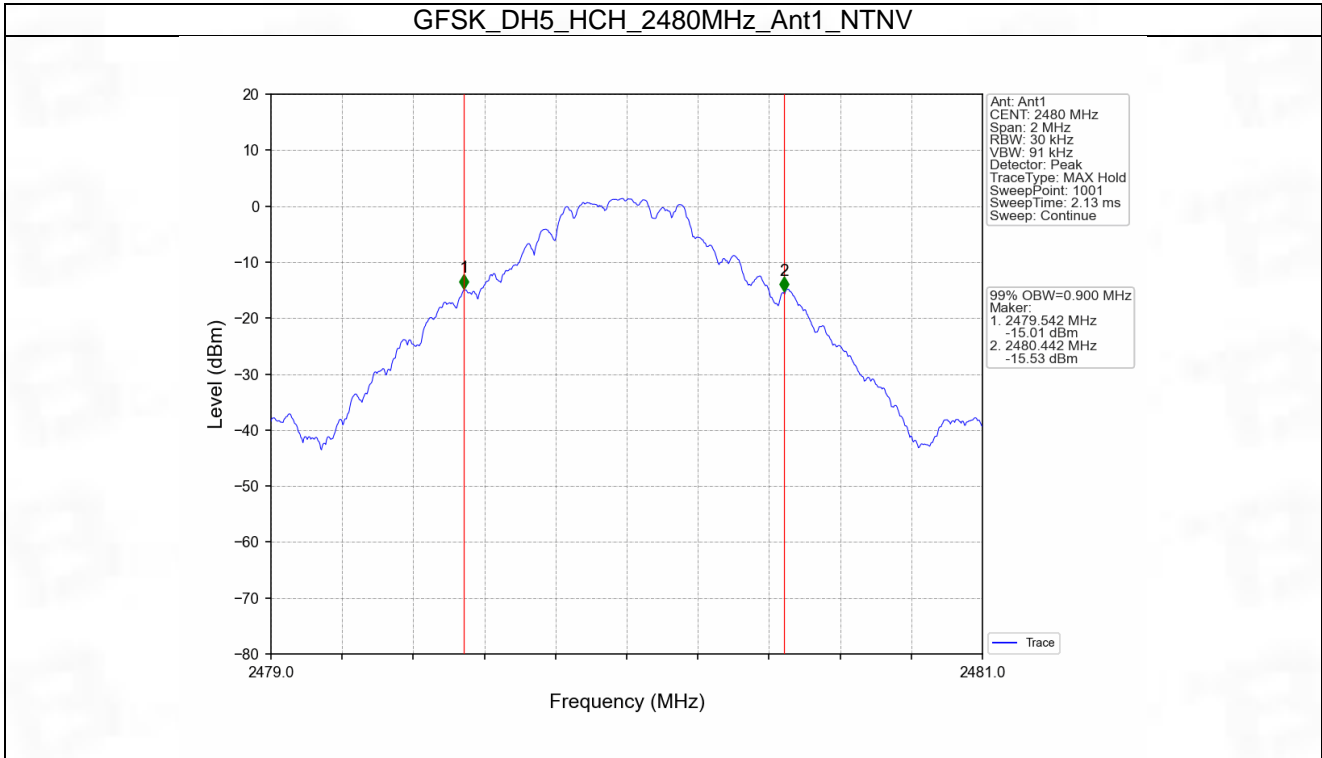
### 1.1 OBW

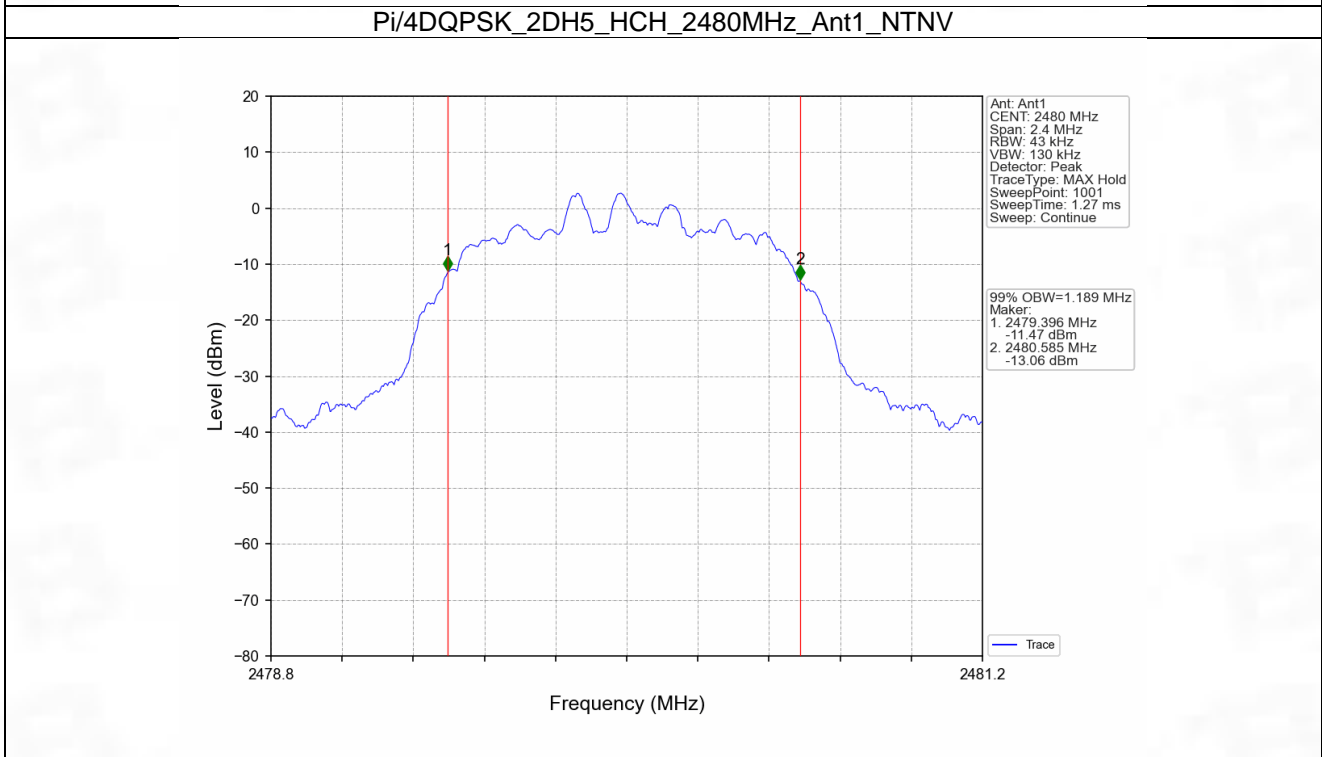
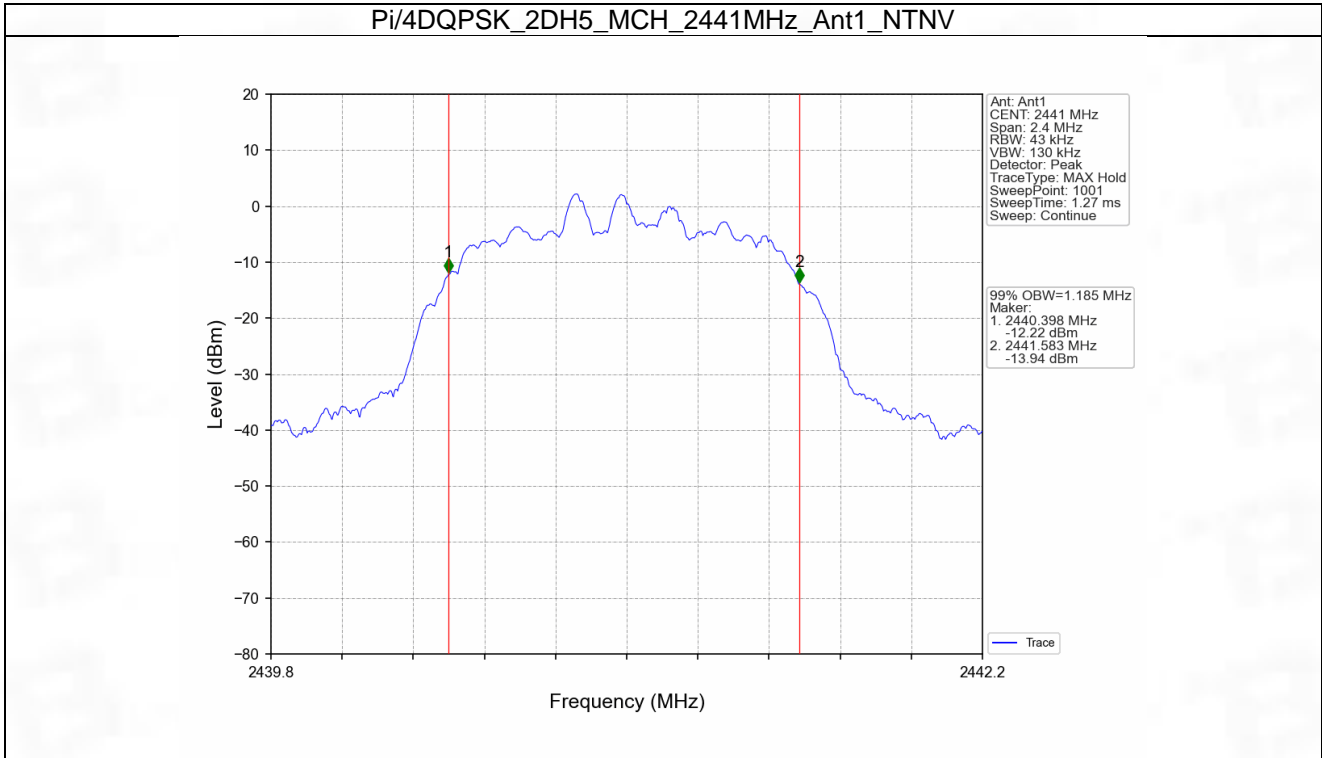
#### 1.1.1 Test Result

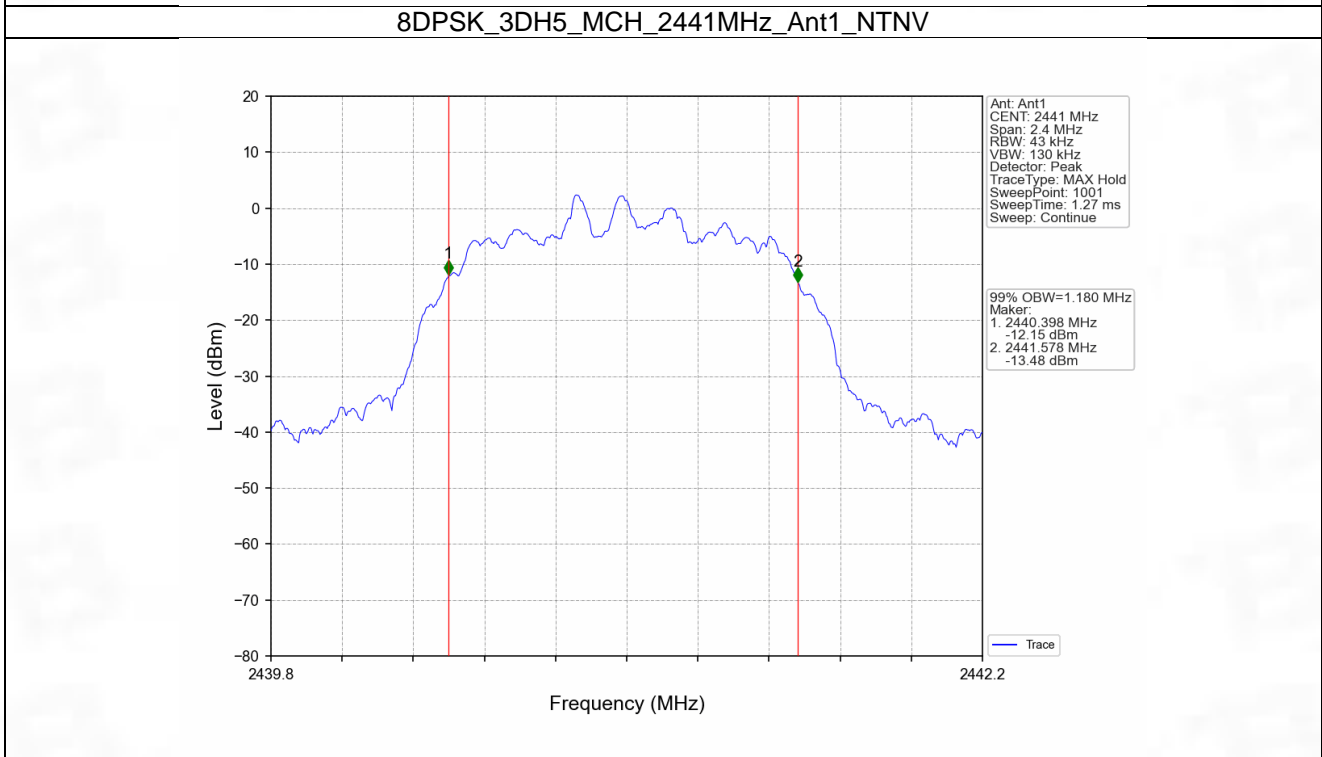
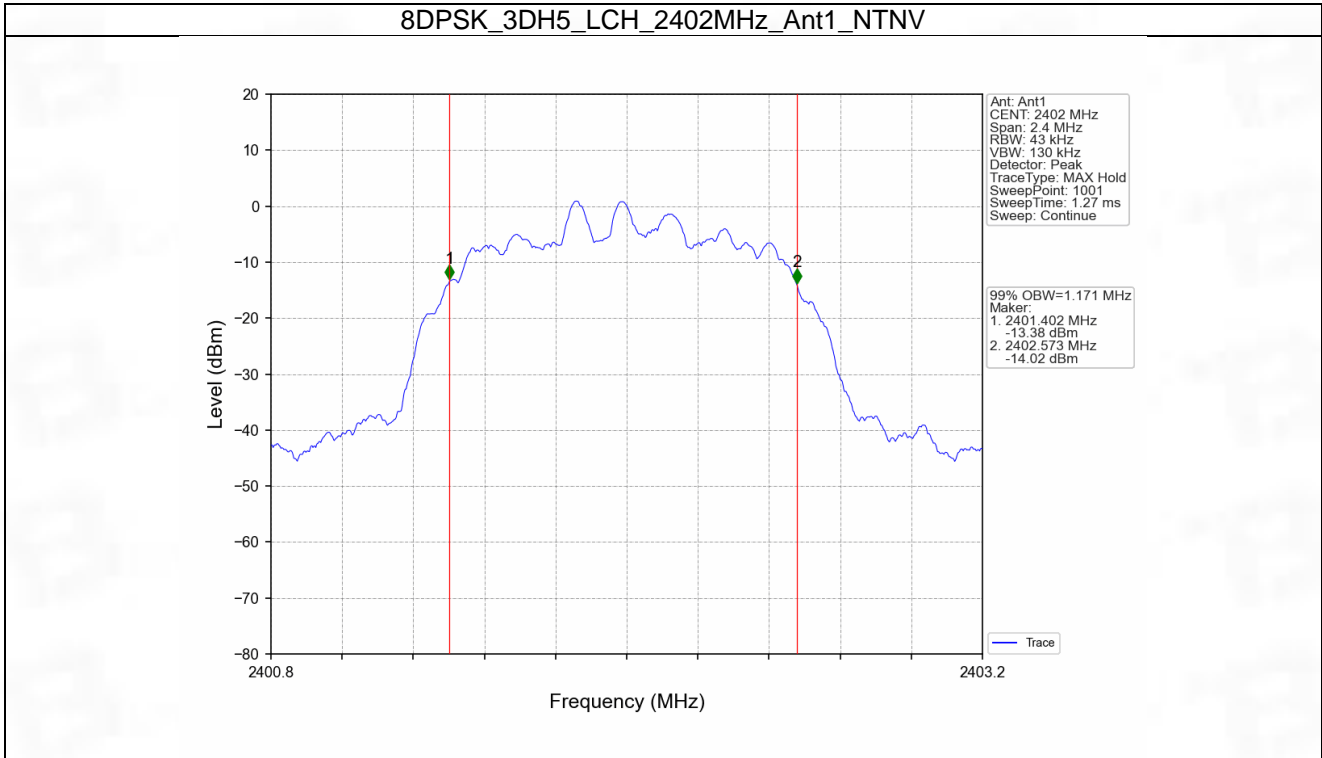
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.879	Pass
		2441	DH5	1	0.892	Pass
		2480	DH5	1	0.900	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.179	Pass
		2441	2DH5	1	1.185	Pass
		2480	2DH5	1	1.189	Pass
8DPSK	SISO	2402	3DH5	1	1.171	Pass
		2441	3DH5	1	1.180	Pass
		2480	3DH5	1	1.182	Pass

### 1.1.2 Test Graph

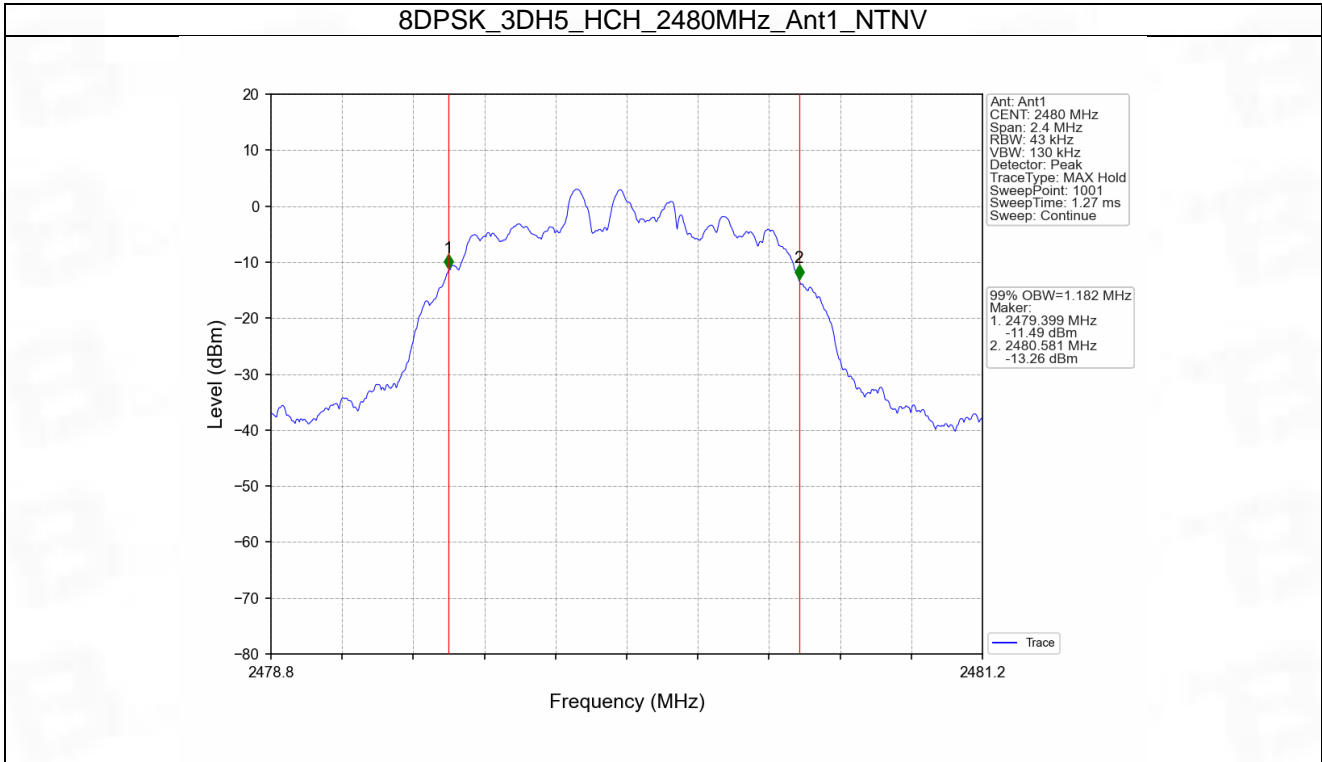












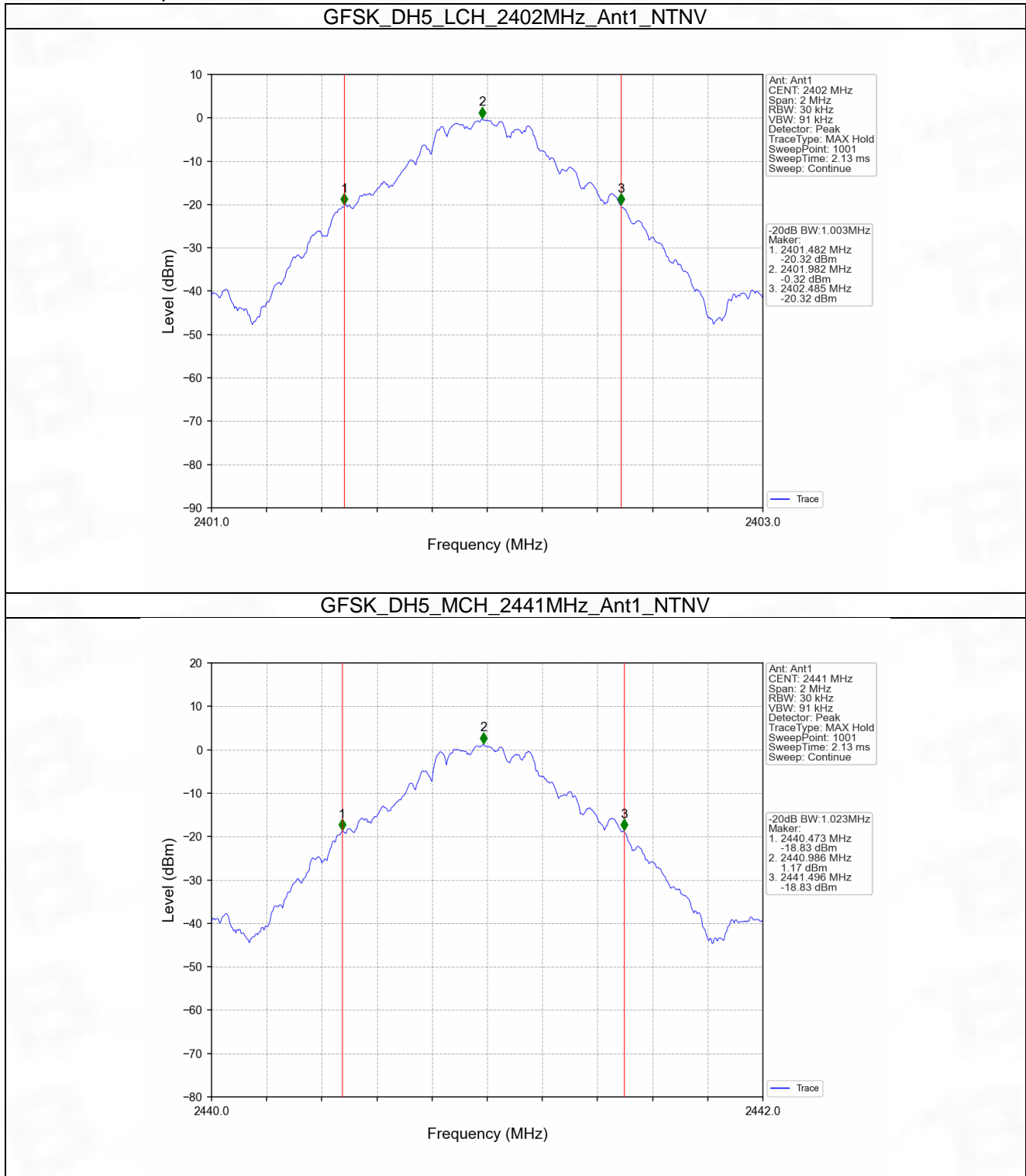


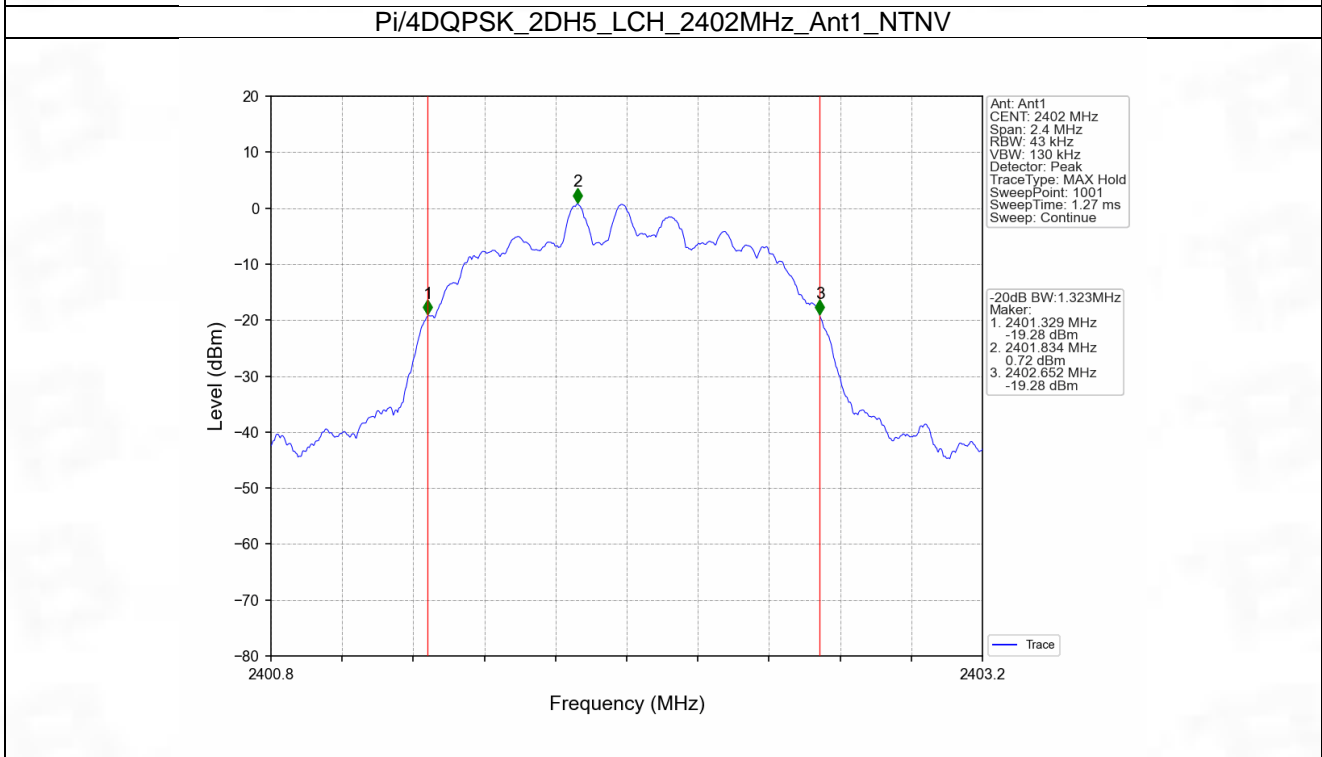
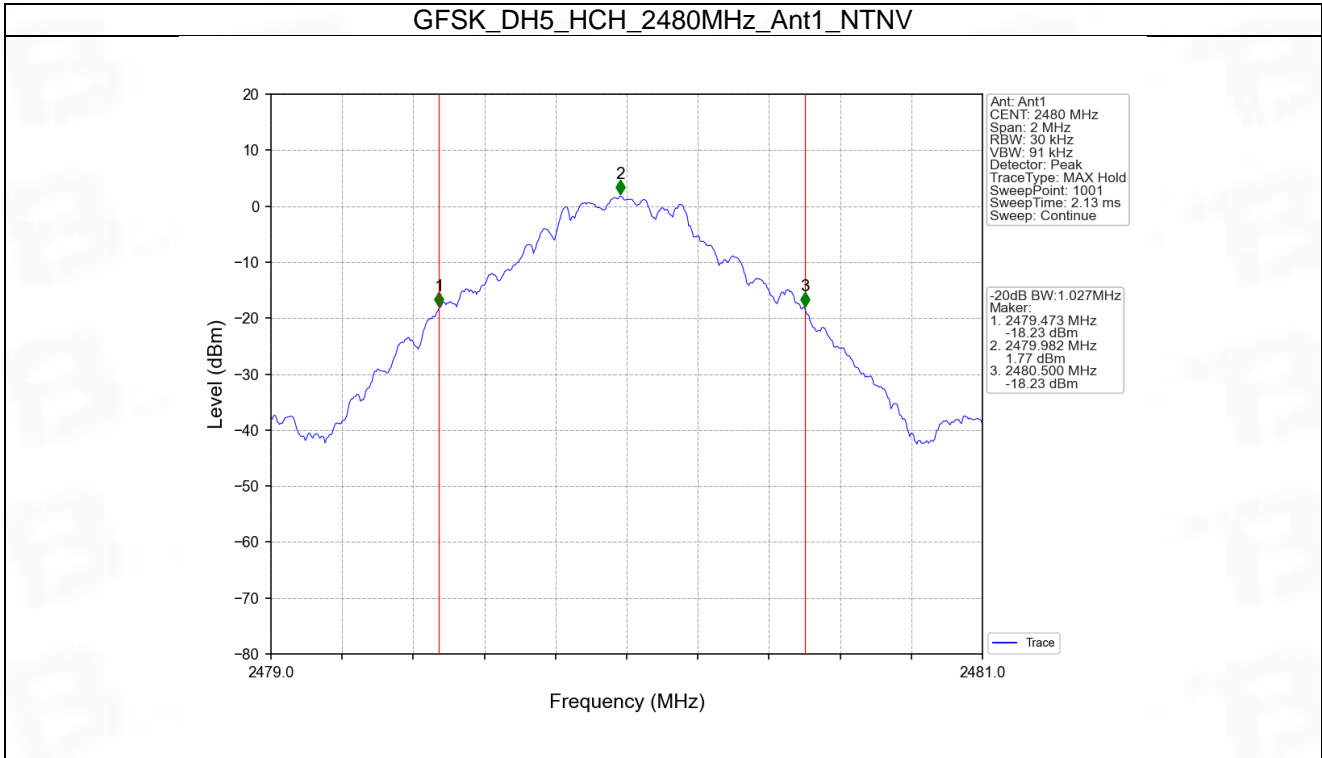
## 1.2 20dB BW

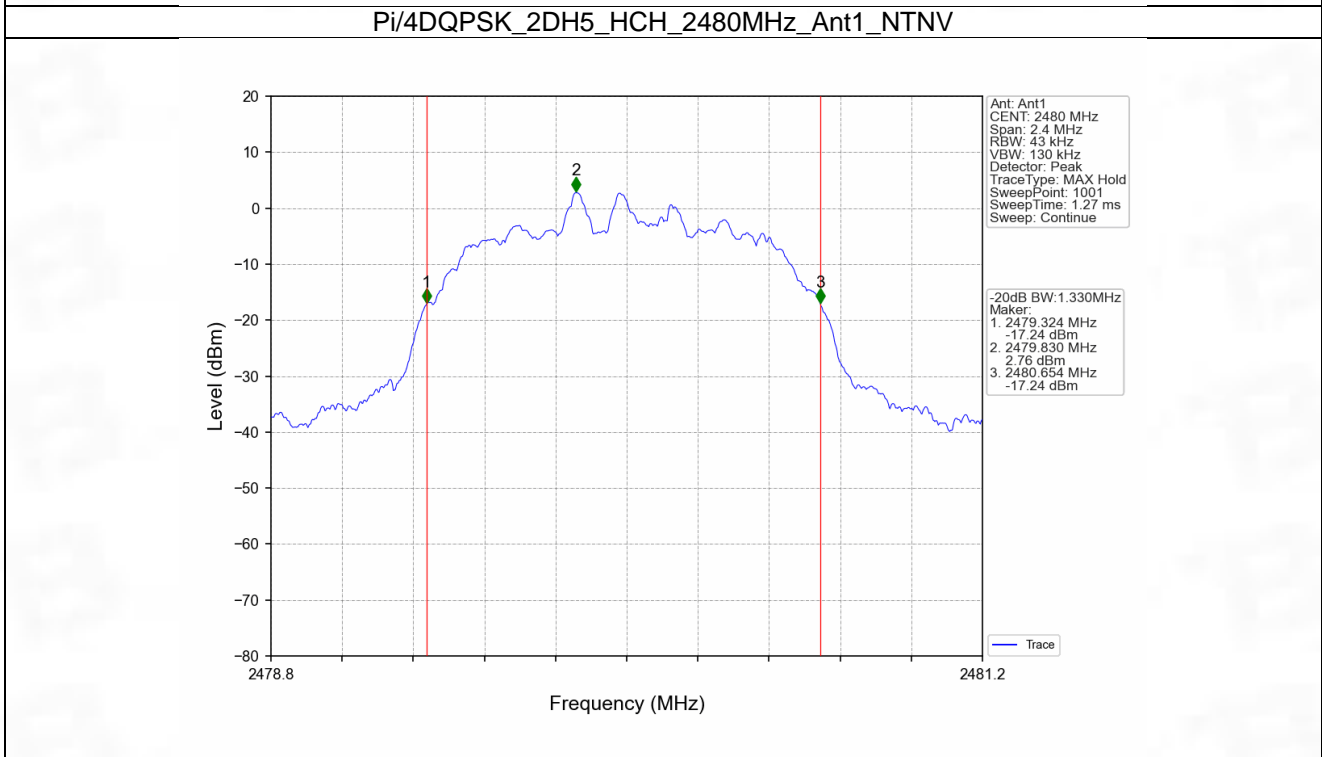
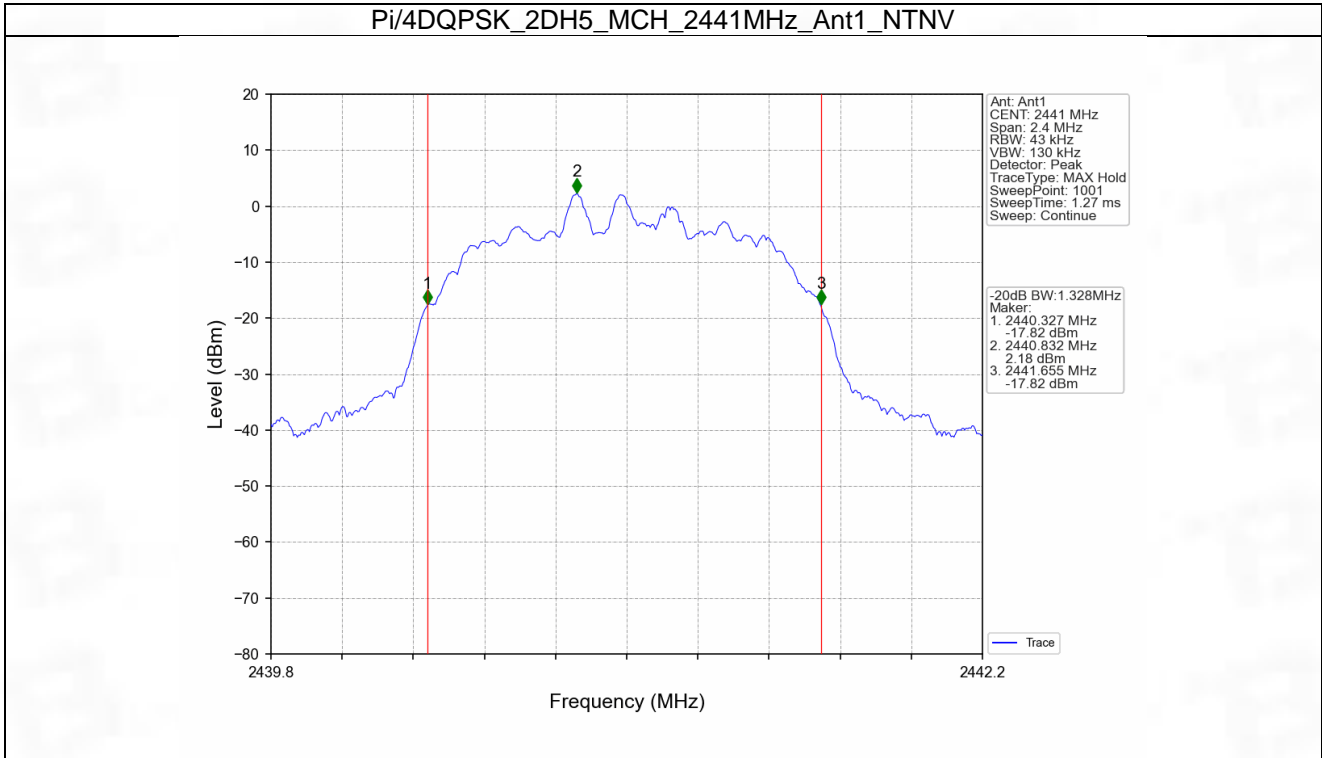
## 1.2.1 Test Result

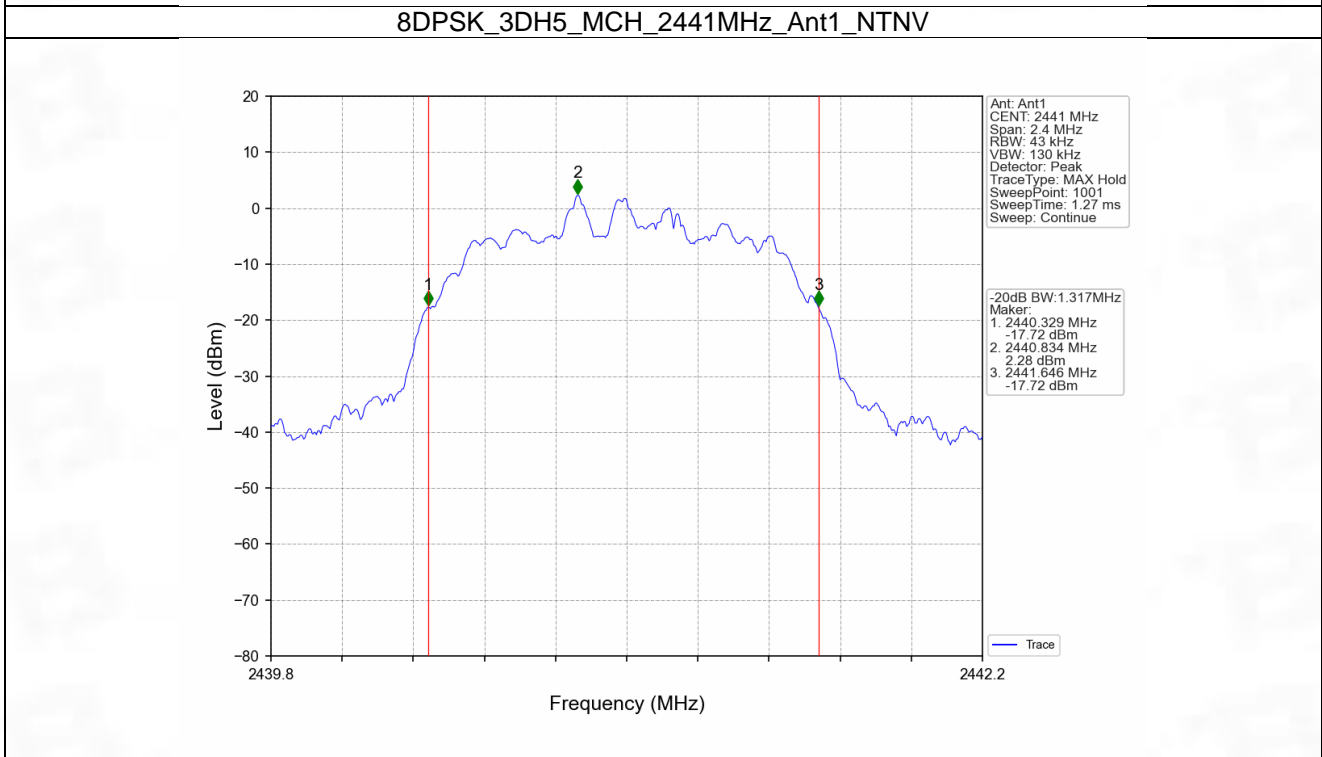
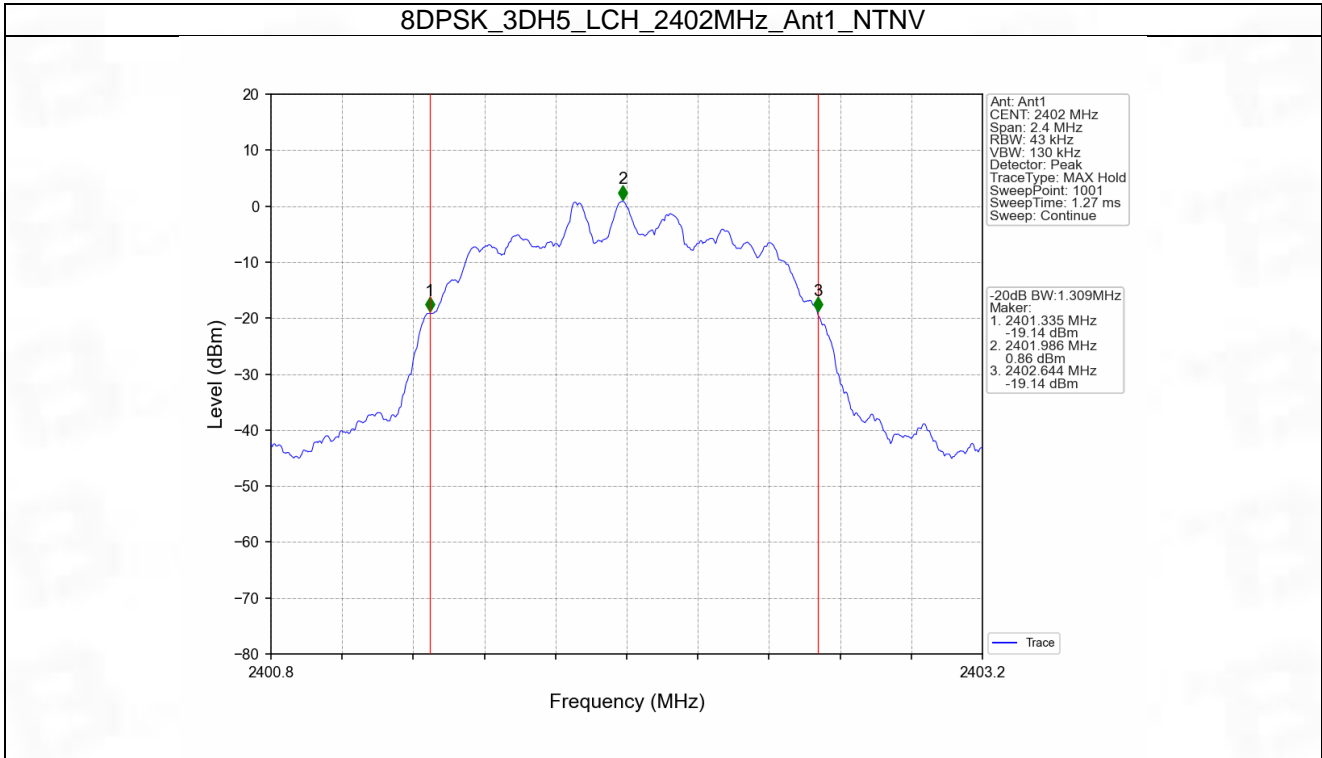
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.003	Pass
		2441	DH5	1	1.023	Pass
		2480	DH5	1	1.027	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.323	Pass
		2441	2DH5	1	1.328	Pass
		2480	2DH5	1	1.330	Pass
8DPSK	SISO	2402	3DH5	1	1.309	Pass
		2441	3DH5	1	1.317	Pass
		2480	3DH5	1	1.332	Pass

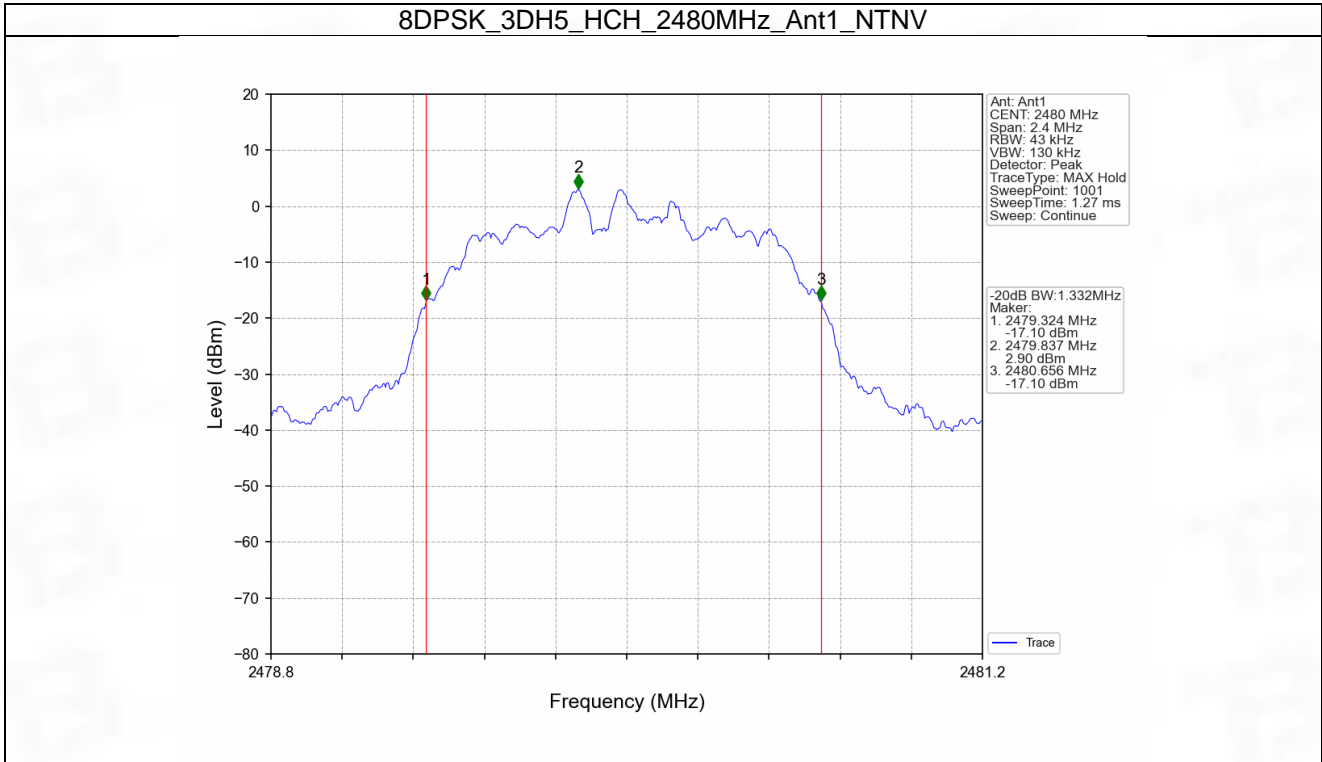
### 1.2.2 Test Graph











## 2. Maximum Conducted Output Power

### 2.1 Power

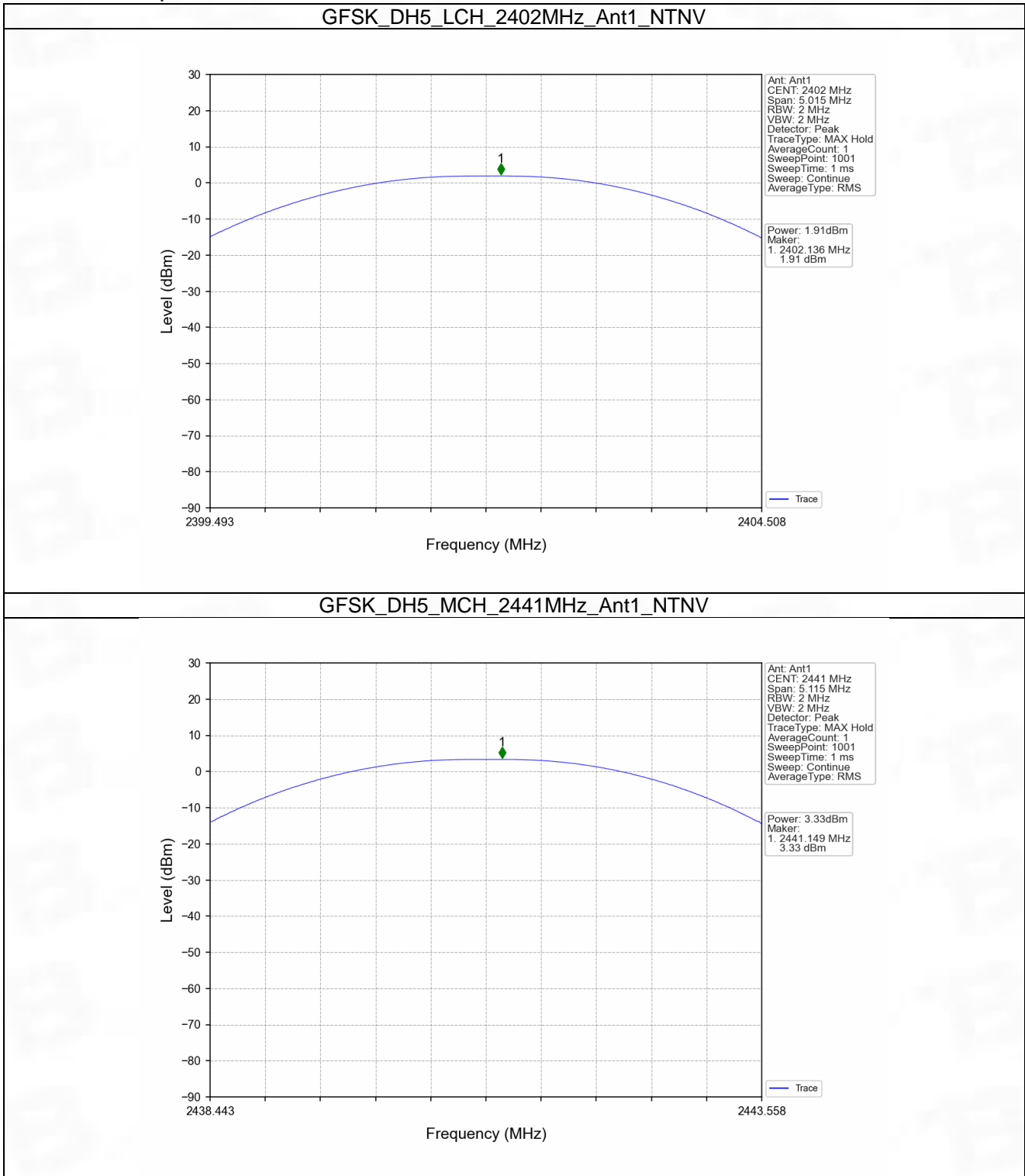
#### 2.1.1 Test Result

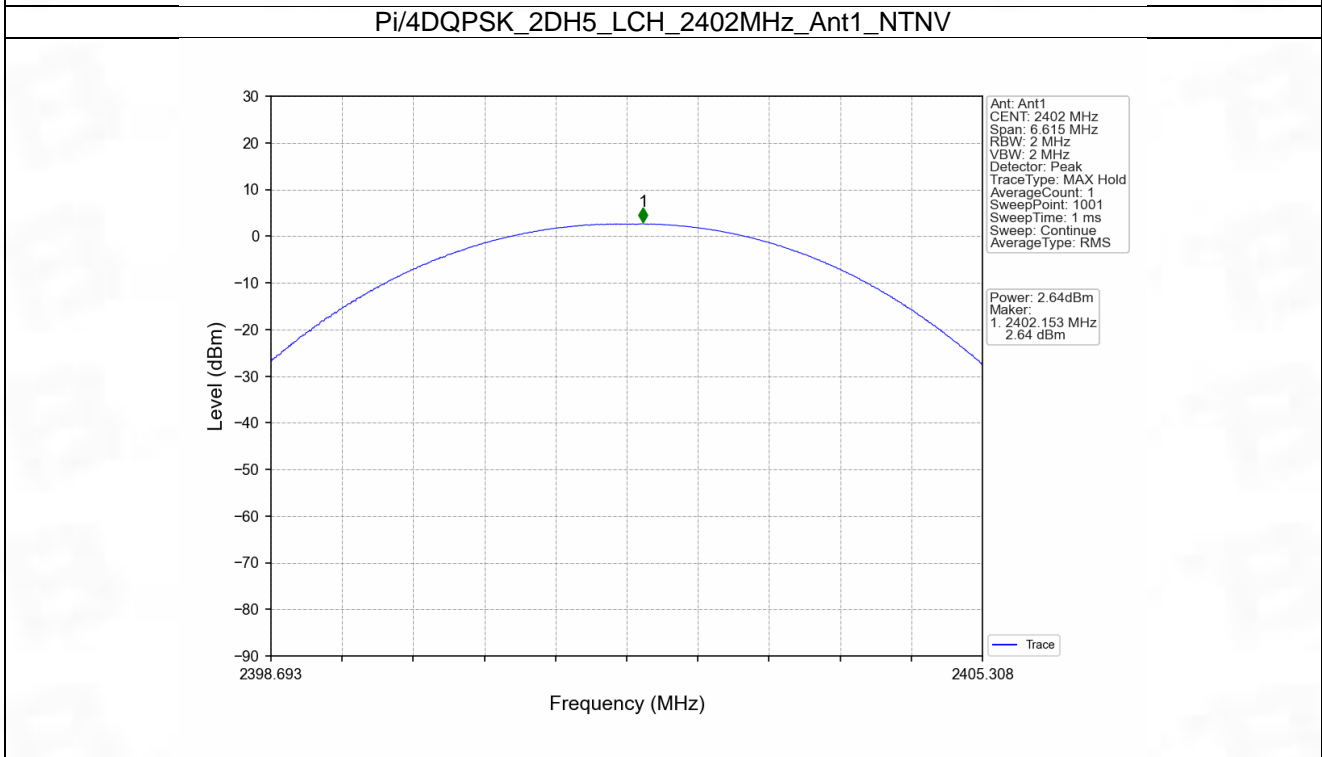
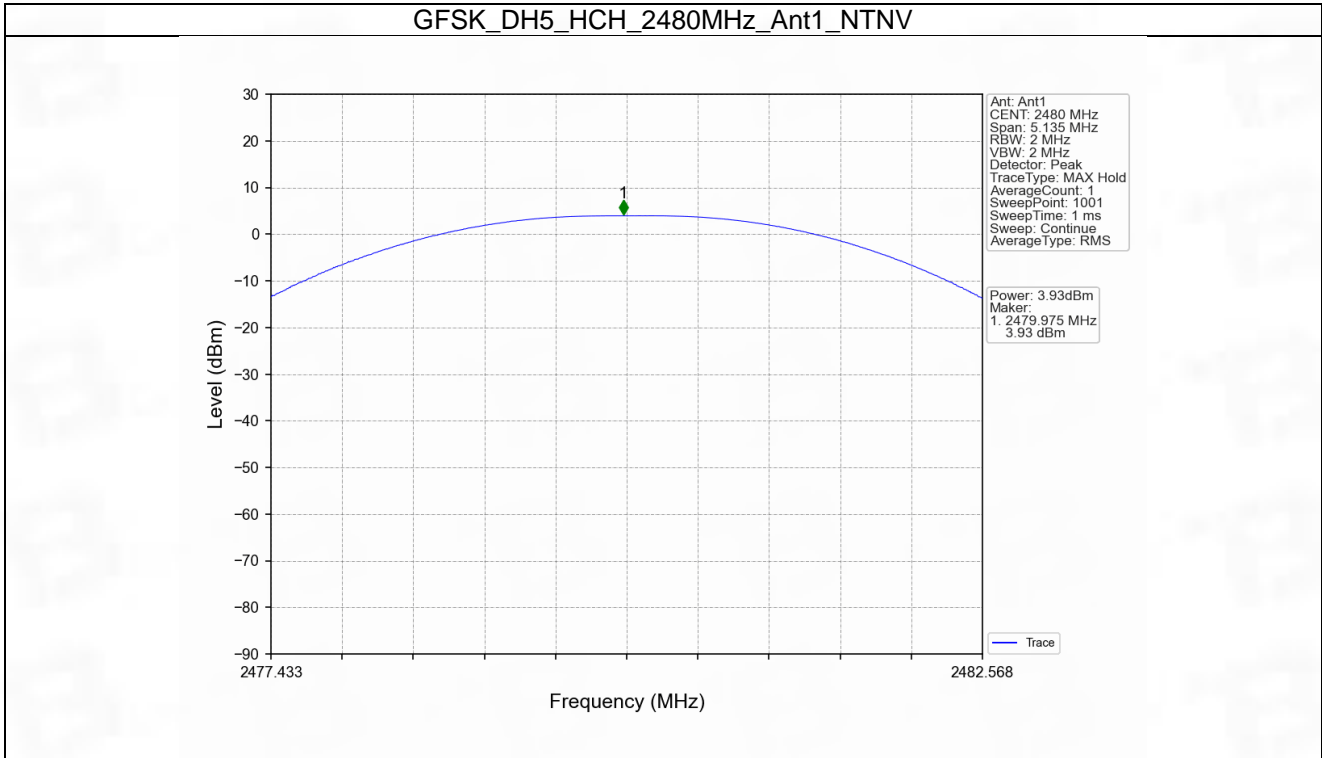
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.91	<=20.97	Pass
		2441	DH5	3.33	<=20.97	Pass
		2480	DH5	3.93	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.64	<=20.97	Pass
		2441	2DH5	4.01	<=20.97	Pass
		2480	2DH5	4.60	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.83	<=20.97	Pass
		2441	3DH5	4.16	<=20.97	Pass
		2480	3DH5	4.83	<=20.97	Pass

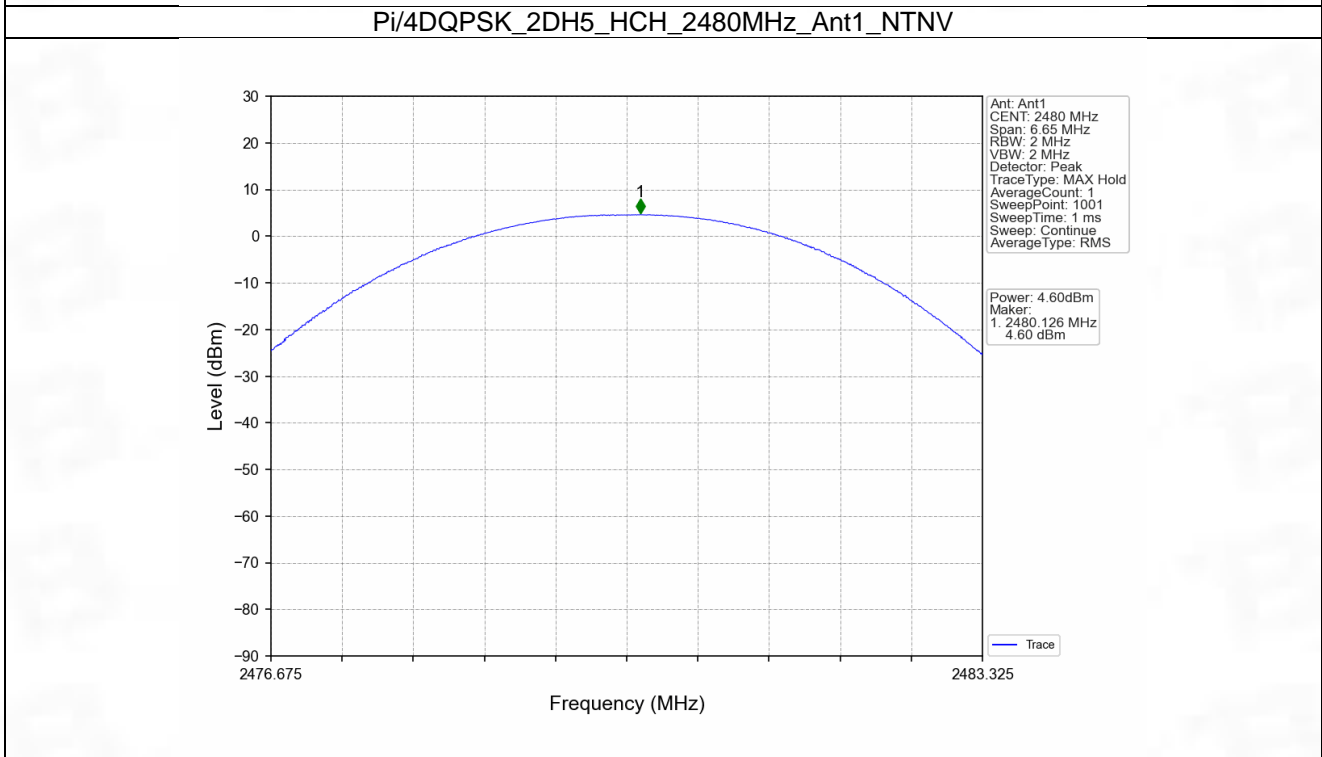
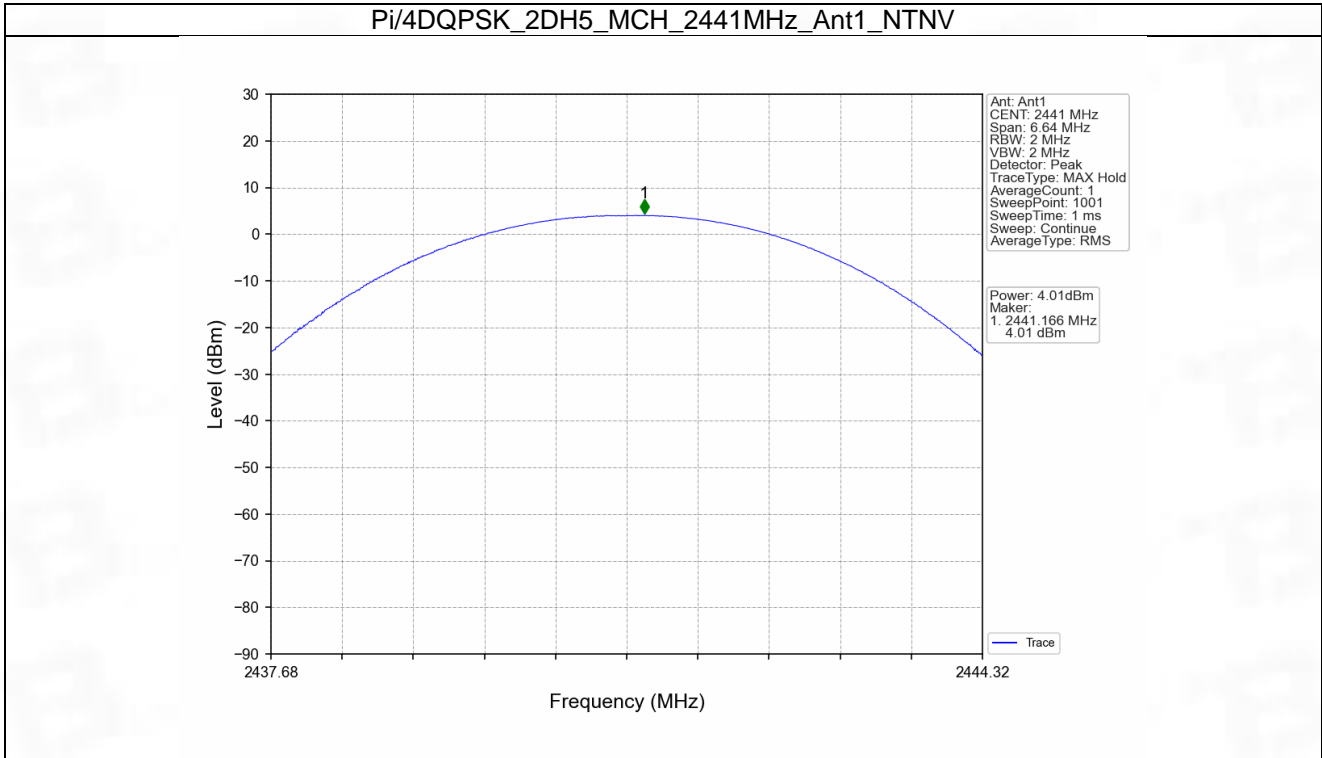
Note1: Antenna Gain: Ant1: 4.34dB;



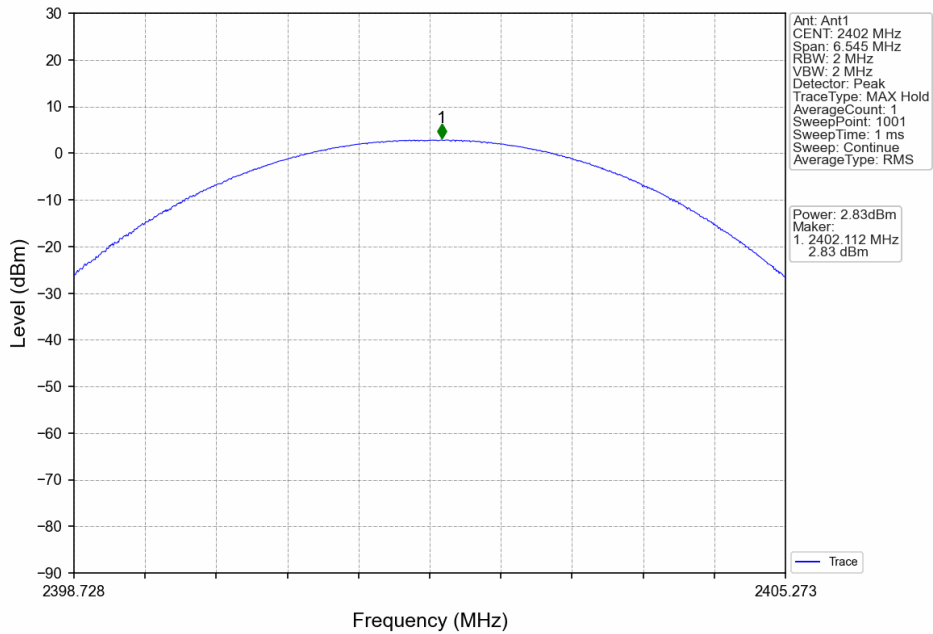
### 2.1.2 Test Graph



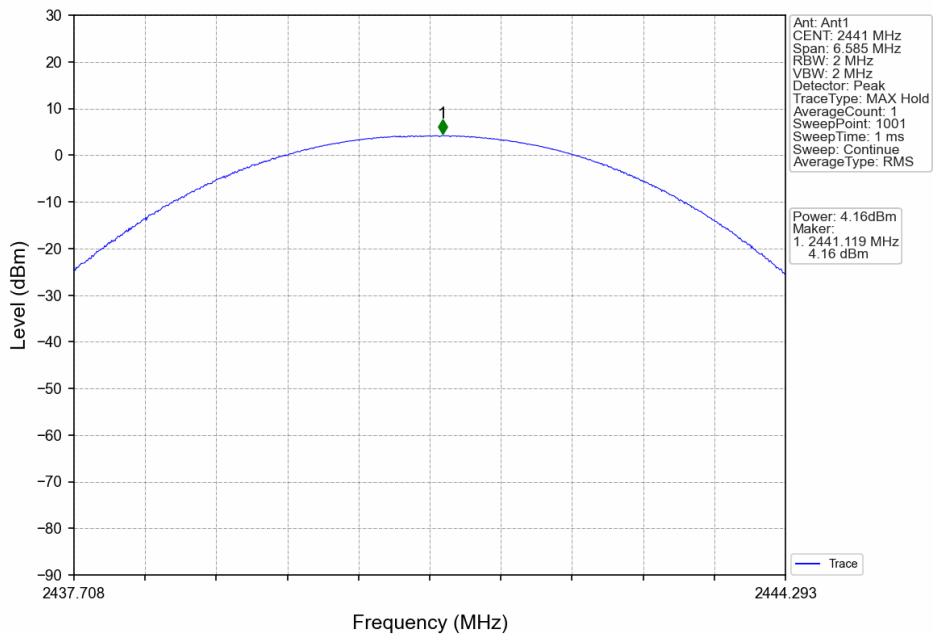


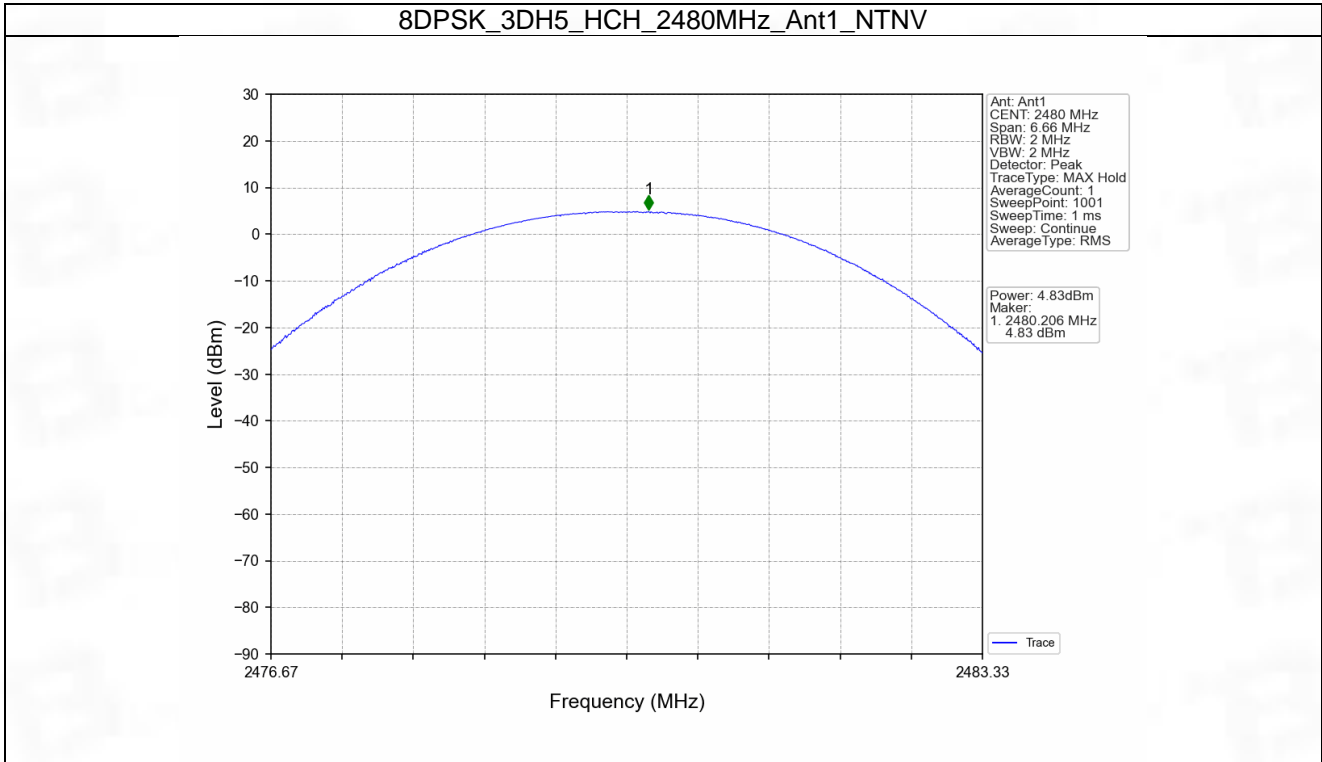


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV





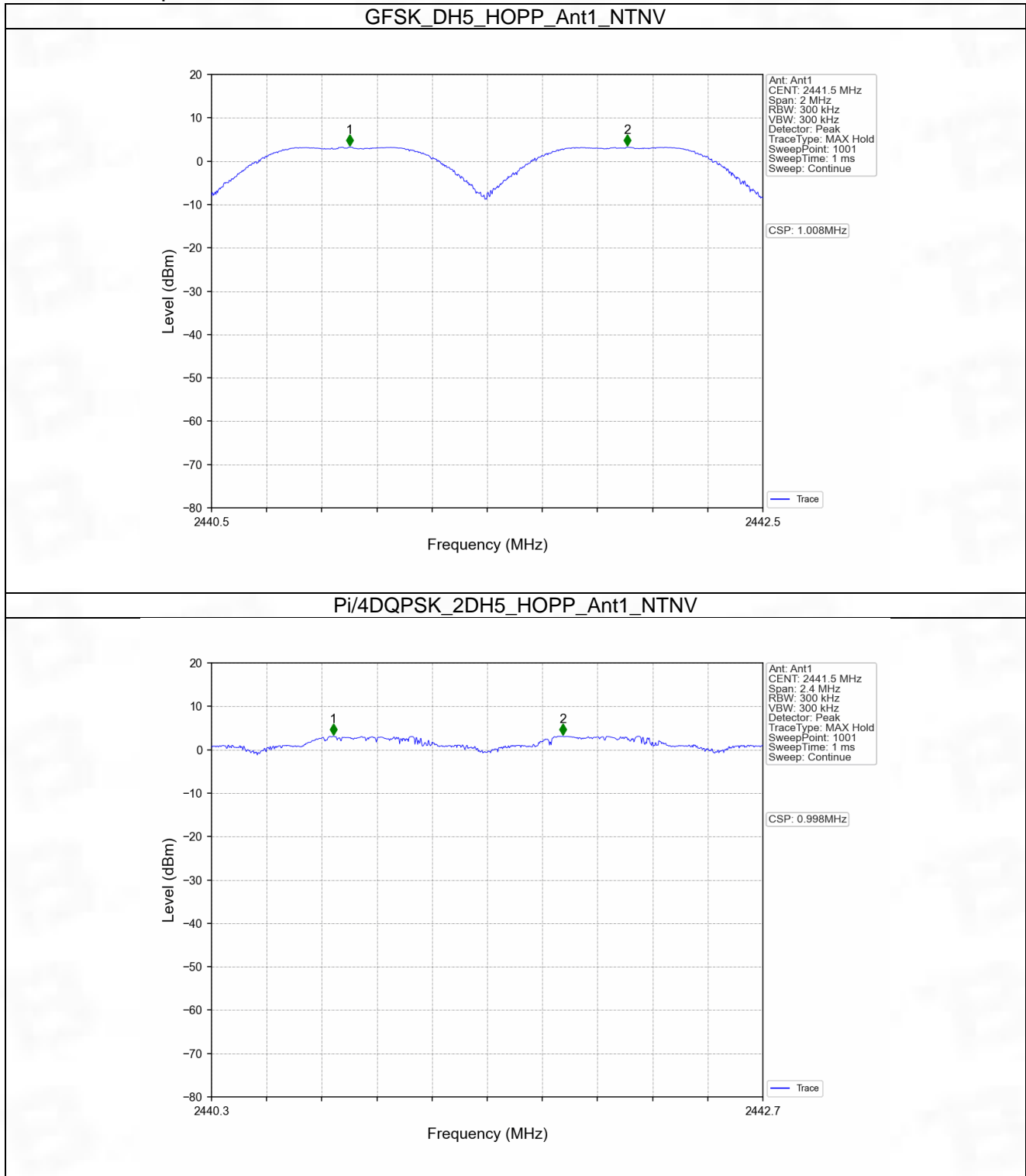
### 3. Carrier Frequency Separation

#### 3.1 Ant1

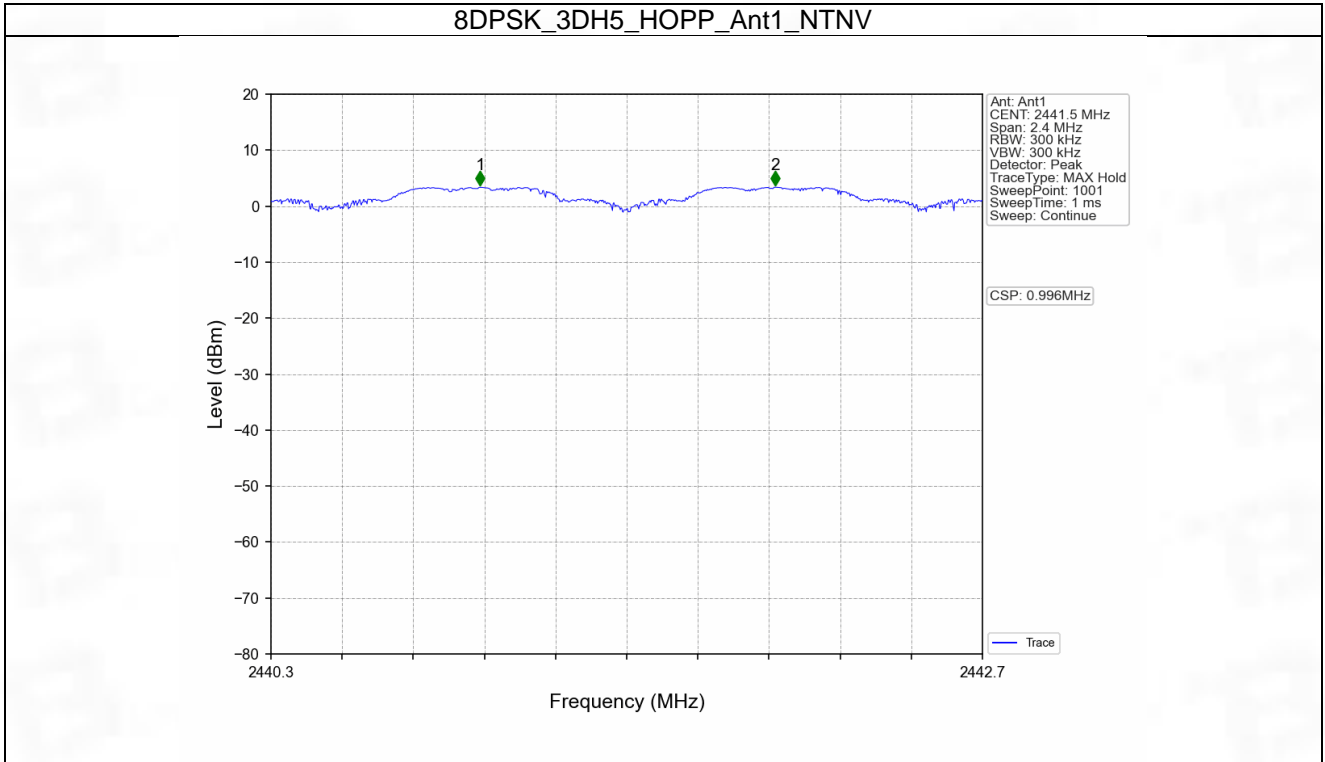
##### 3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.008	1.027	$\geq 0.685$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.998	1.330	$\geq 0.887$	Pass
8DPSK	SISO	HOPP	3DH5	0.996	1.332	$\geq 0.888$	Pass

### 3.1.2 Test Graph







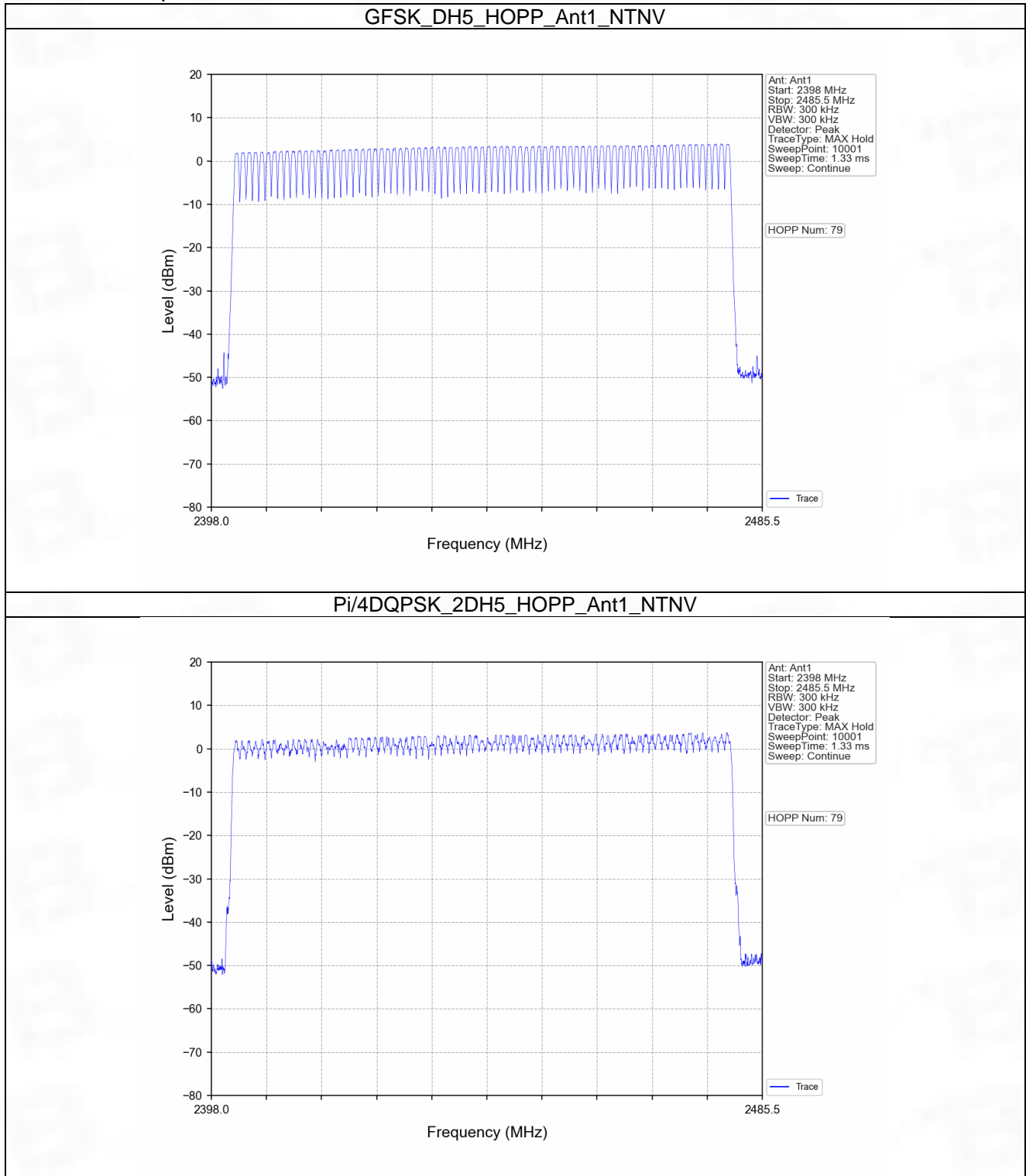
## 4. Number of Hopping Frequencies

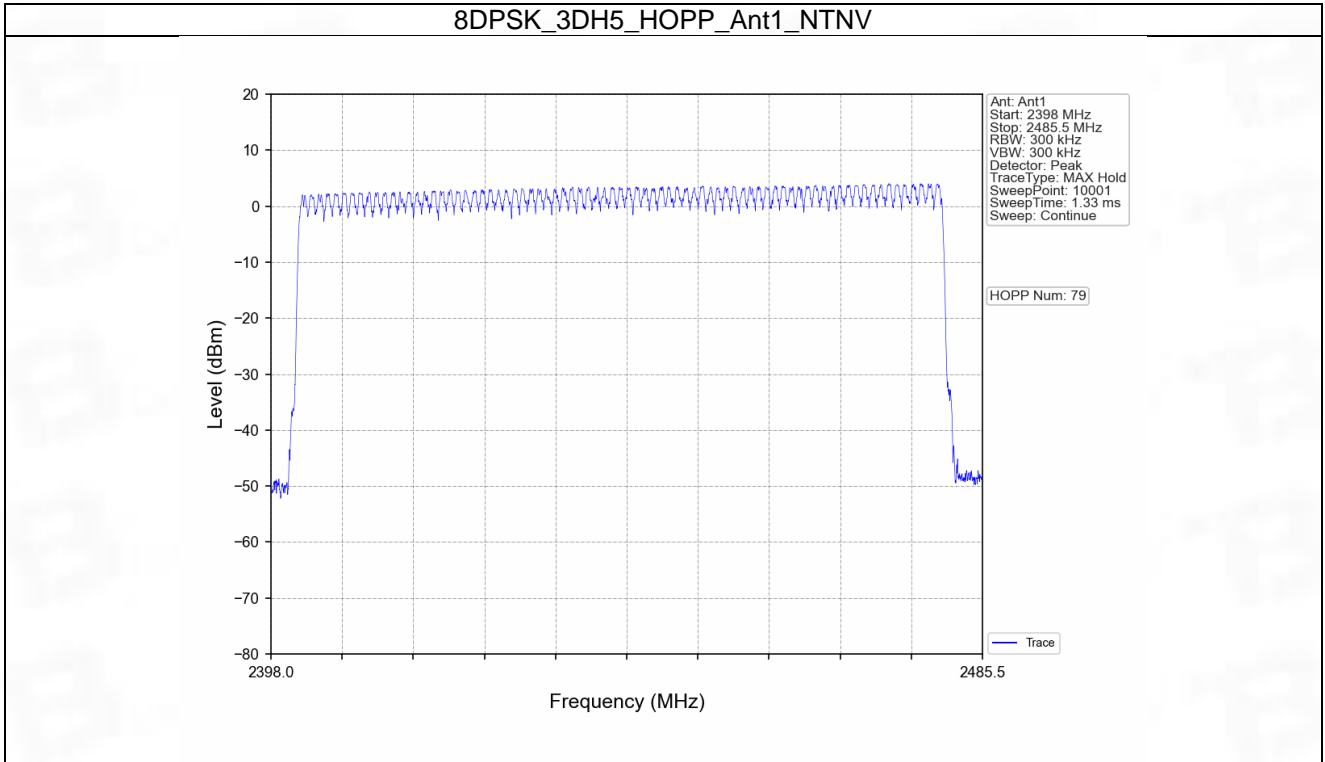
### 4.1 HoppNum

#### 4.1.1 Test Result

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

### 4.1.2 Test Graph





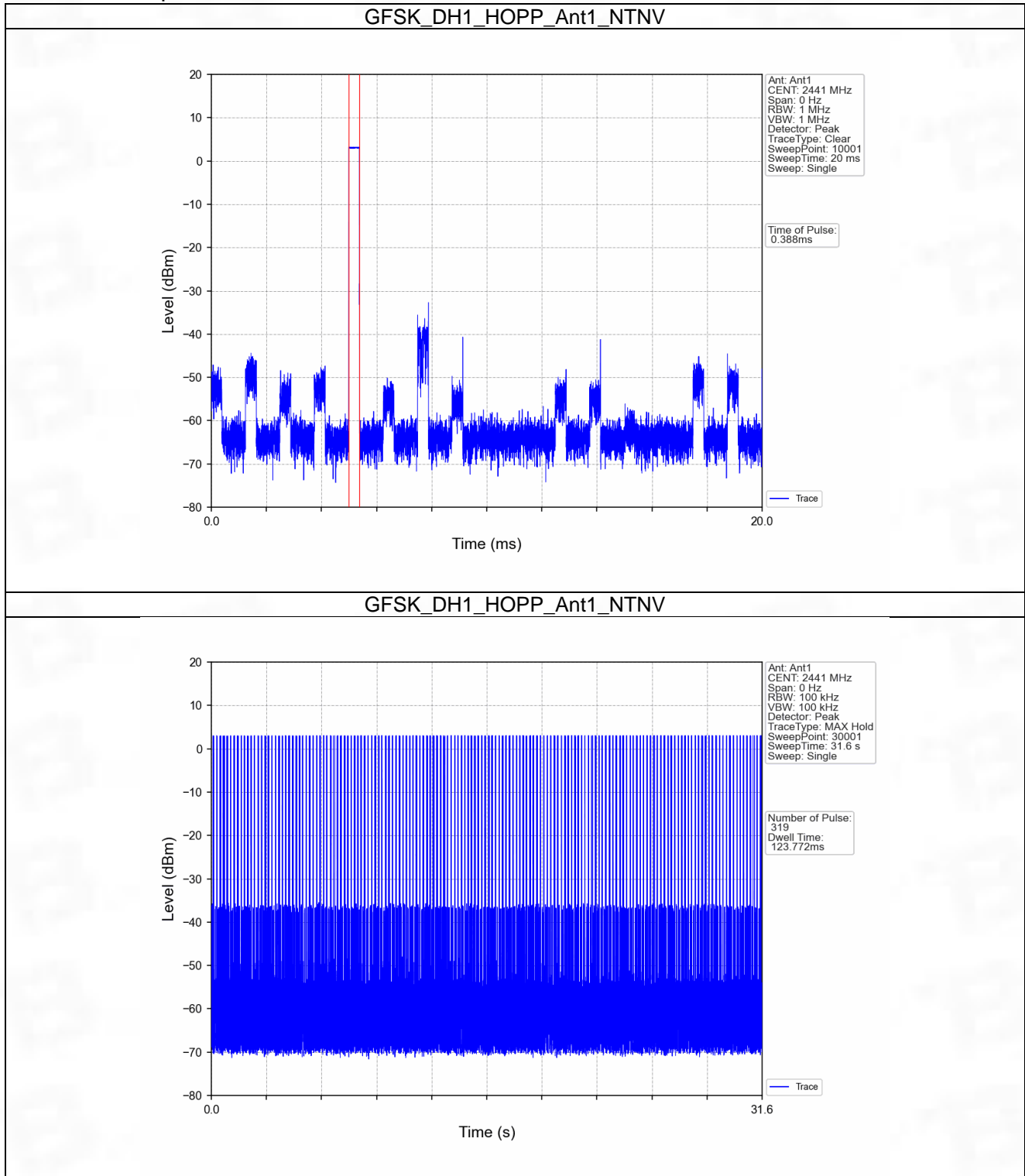
## 5. Time of Occupancy (Dwell Time)

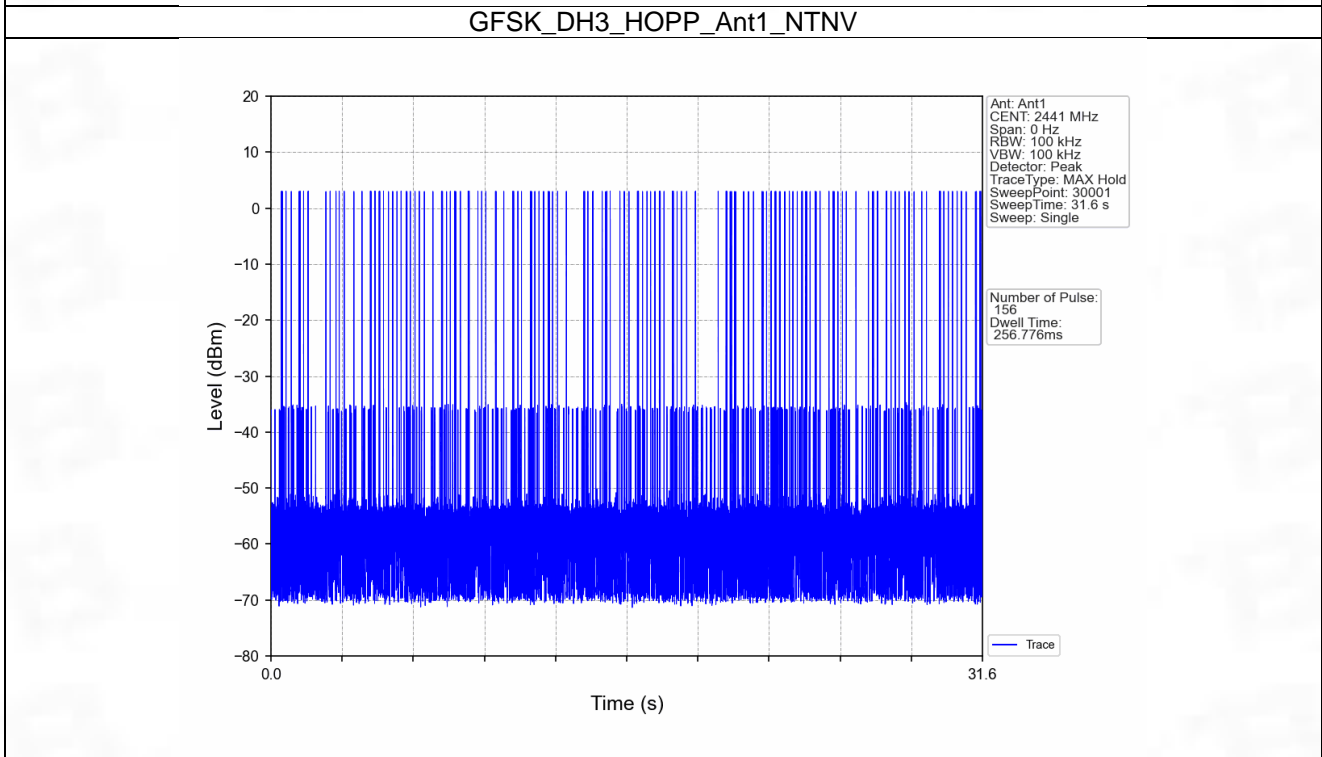
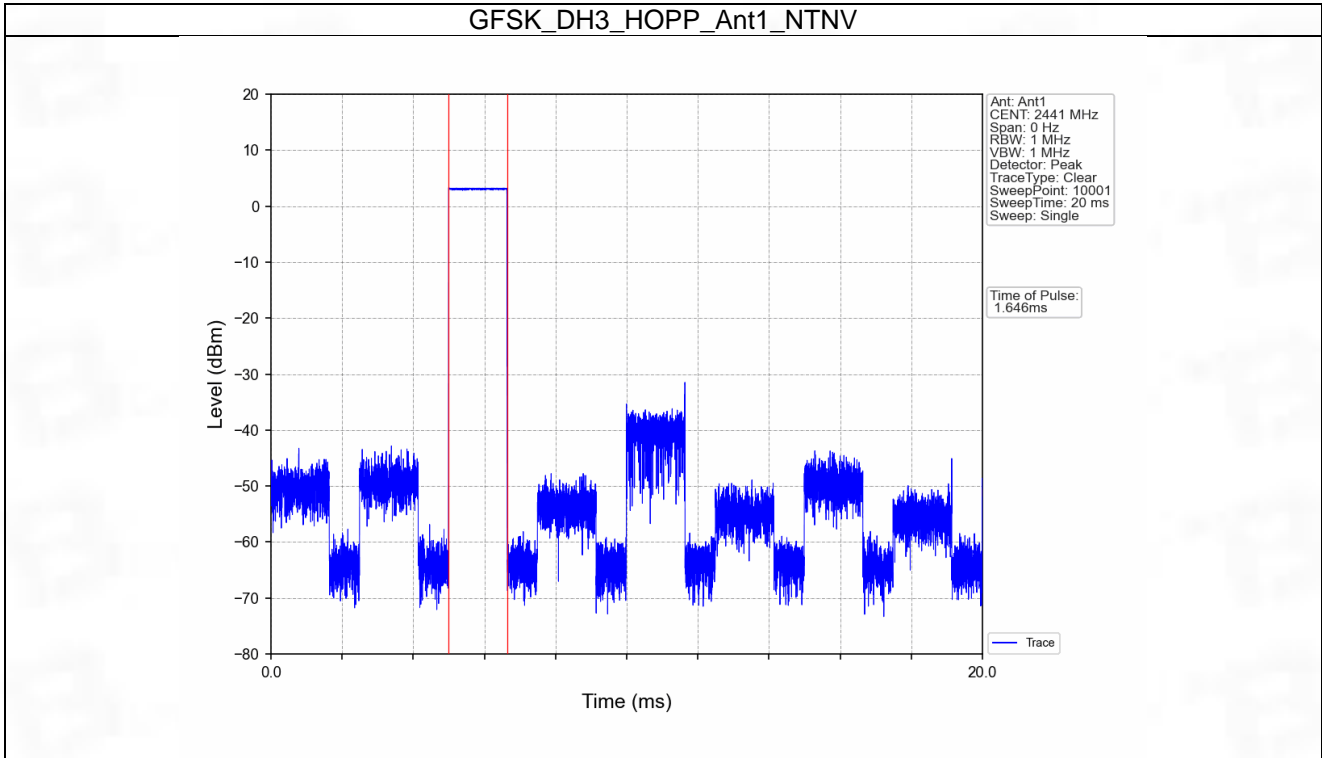
### 5.1 Ant1

#### 5.1.1 Test Result

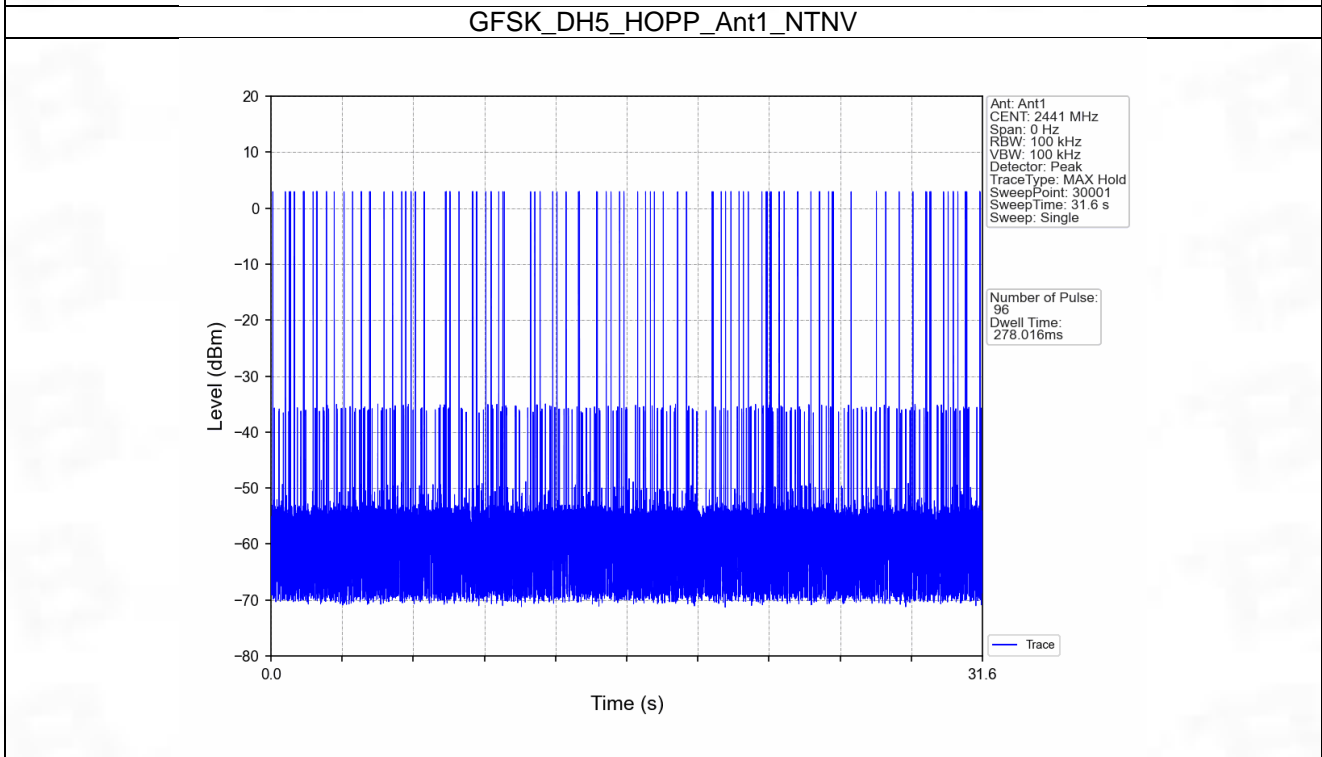
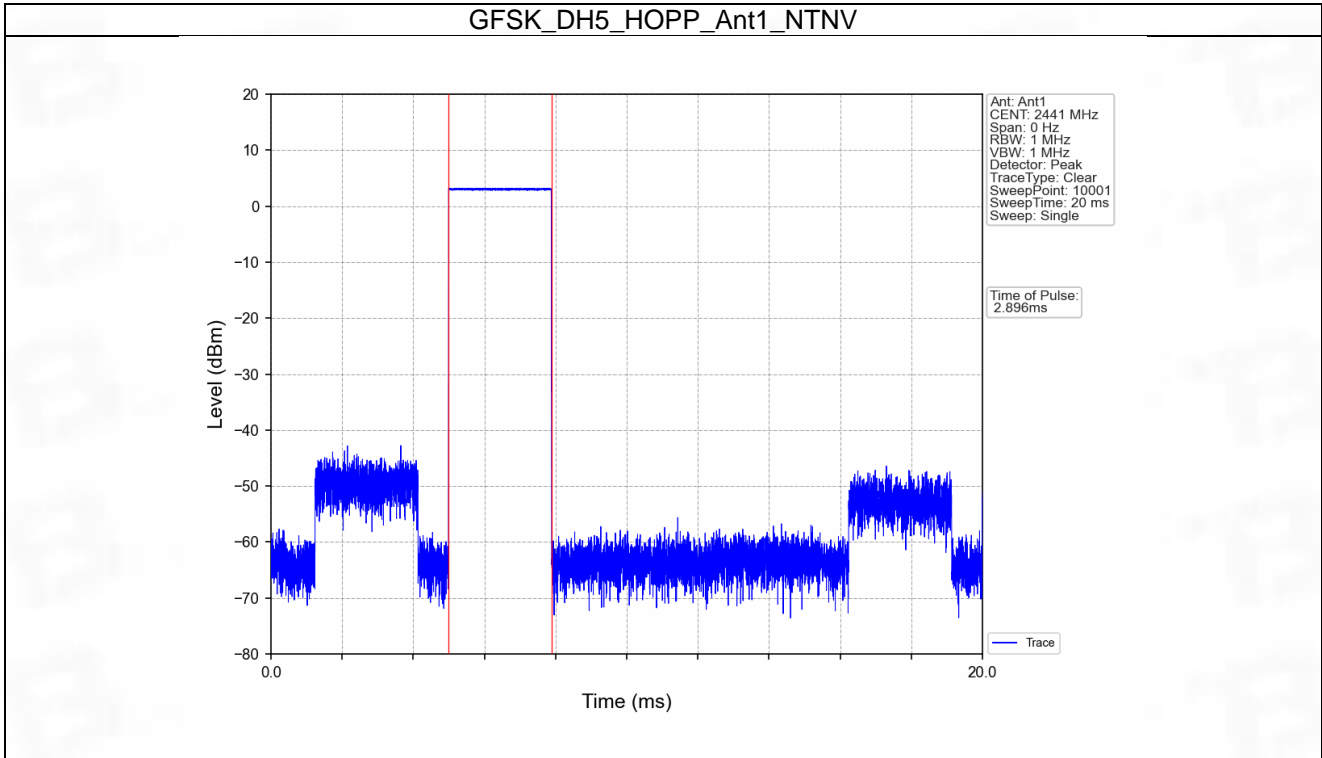
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.388	31.600	319	123.772	<=400	Pass
			DH3	1.646	31.600	156	256.776	<=400	Pass
			DH5	2.896	31.600	96	278.016	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	318	125.928	<=400	Pass
			2DH3	1.656	31.600	159	263.304	<=400	Pass
			2DH5	2.902	31.600	102	296.004	<=400	Pass
8DPSK	SISO	HOPP	3DH1	6.678	31.600	48	320.544	<=400	Pass
			3DH3	0.652	31.600	161	104.972	<=400	Pass
			3DH5	0.906	31.600	102	92.412	<=400	Pass

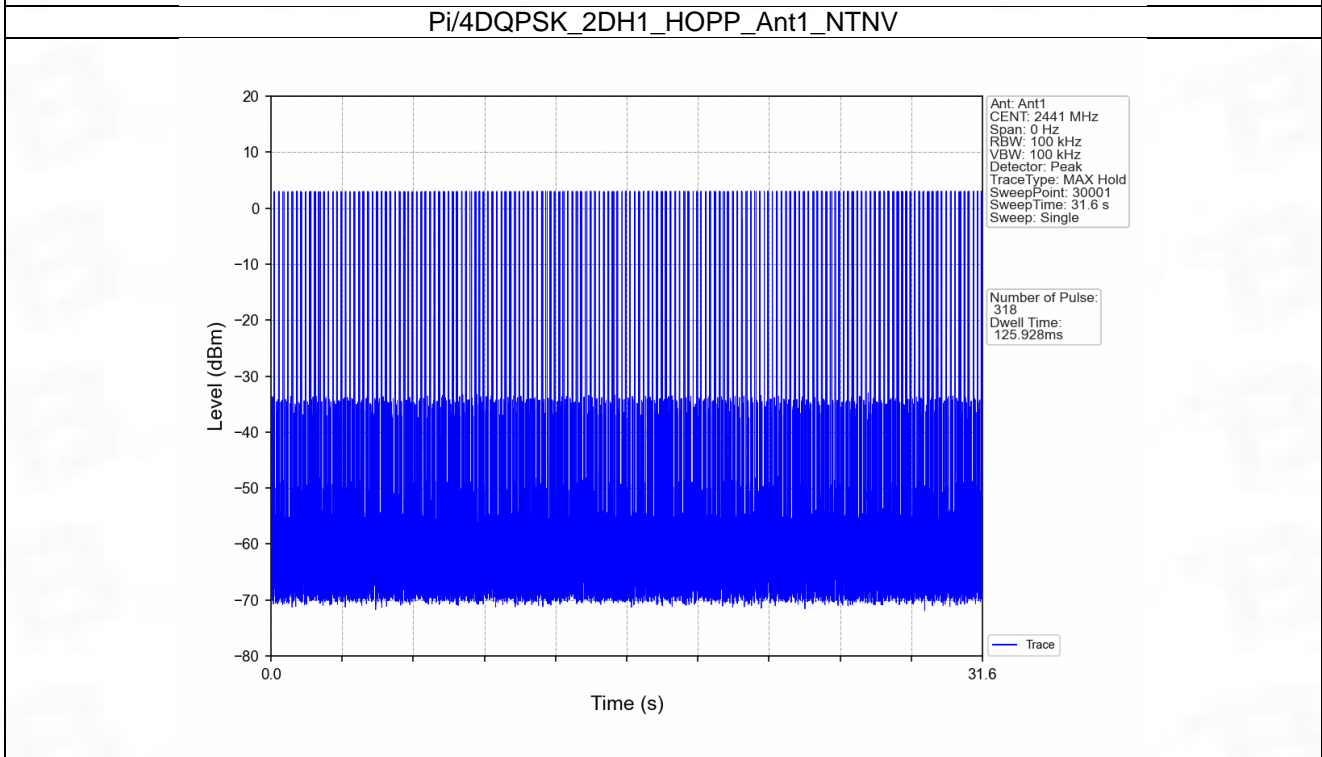
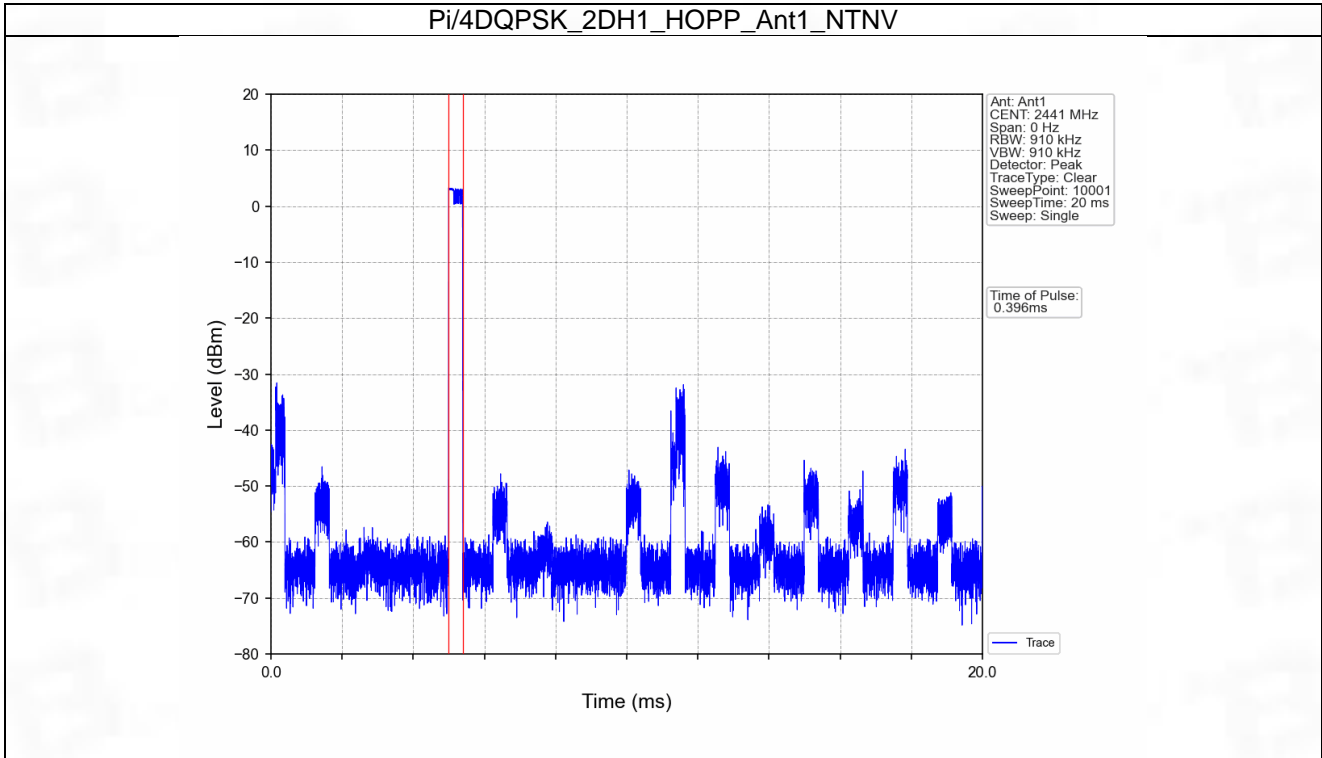
### 5.1.2 Test Graph

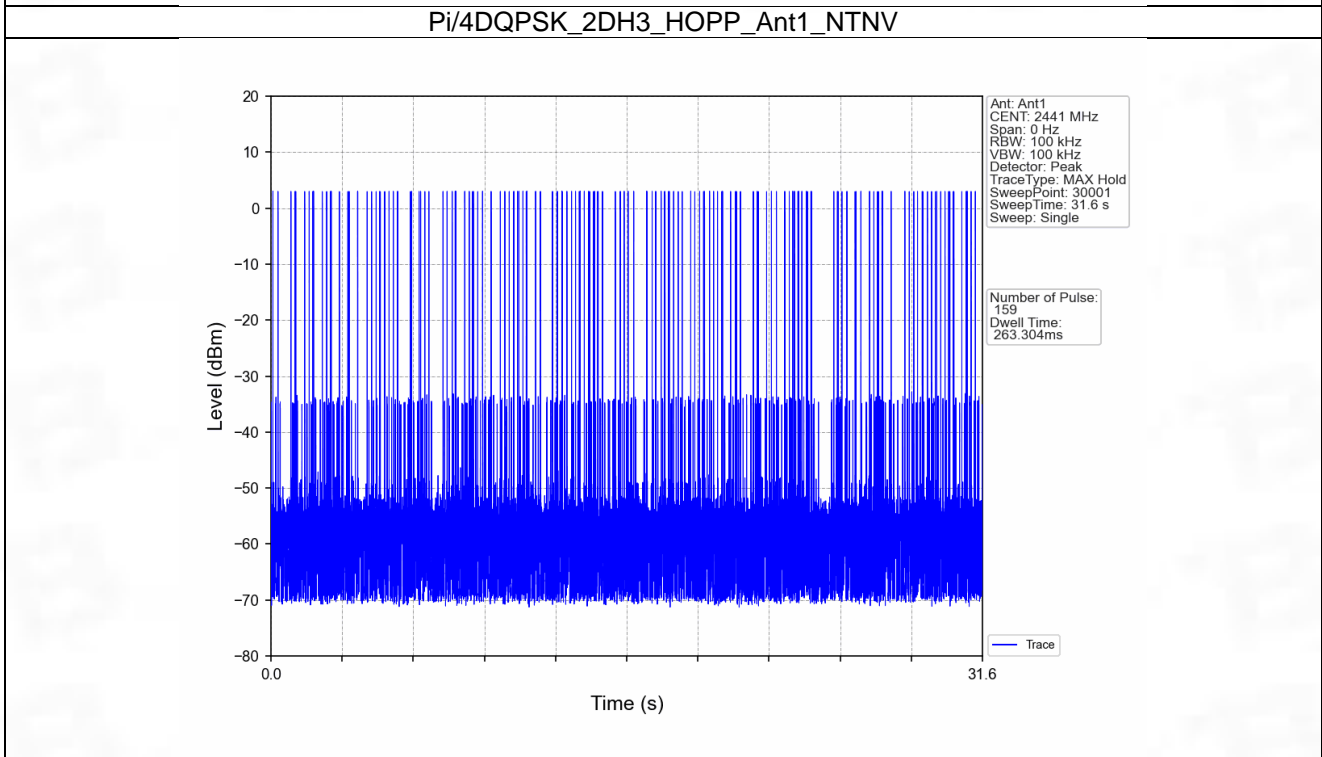
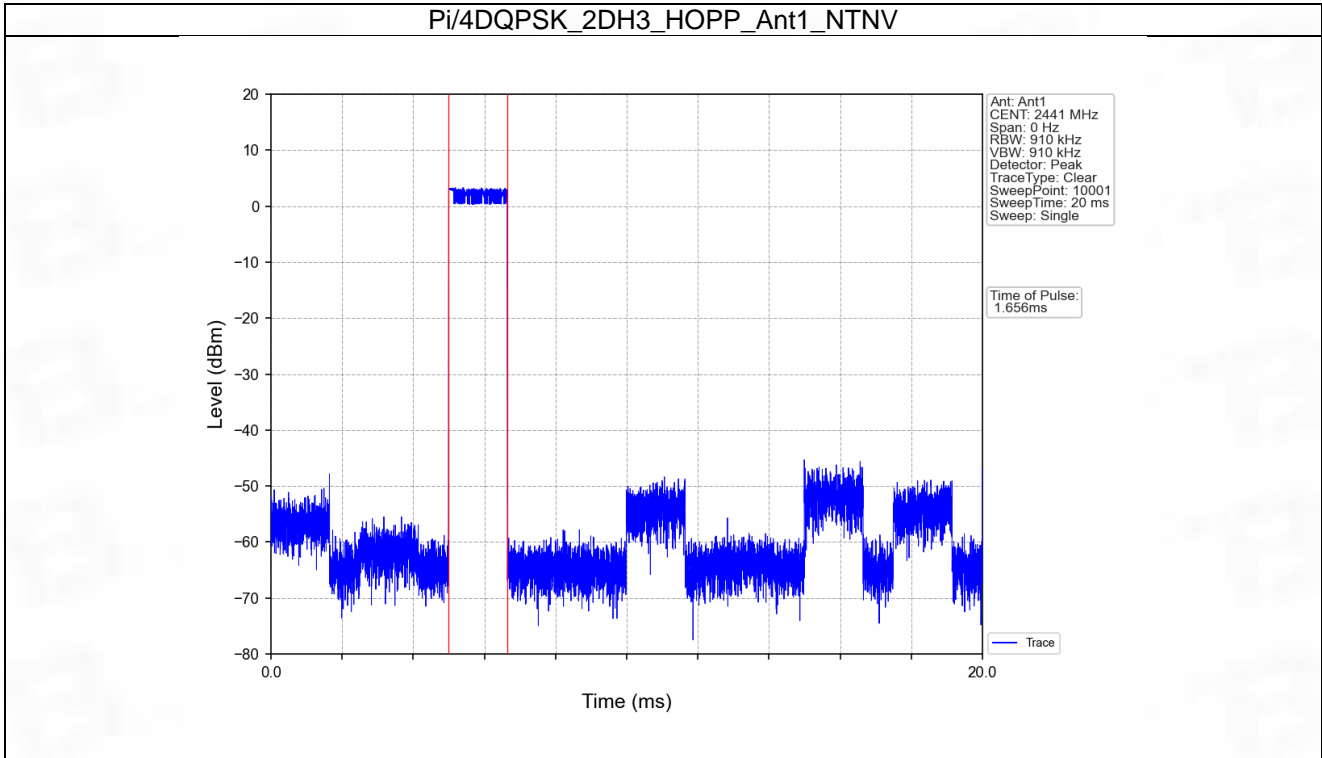


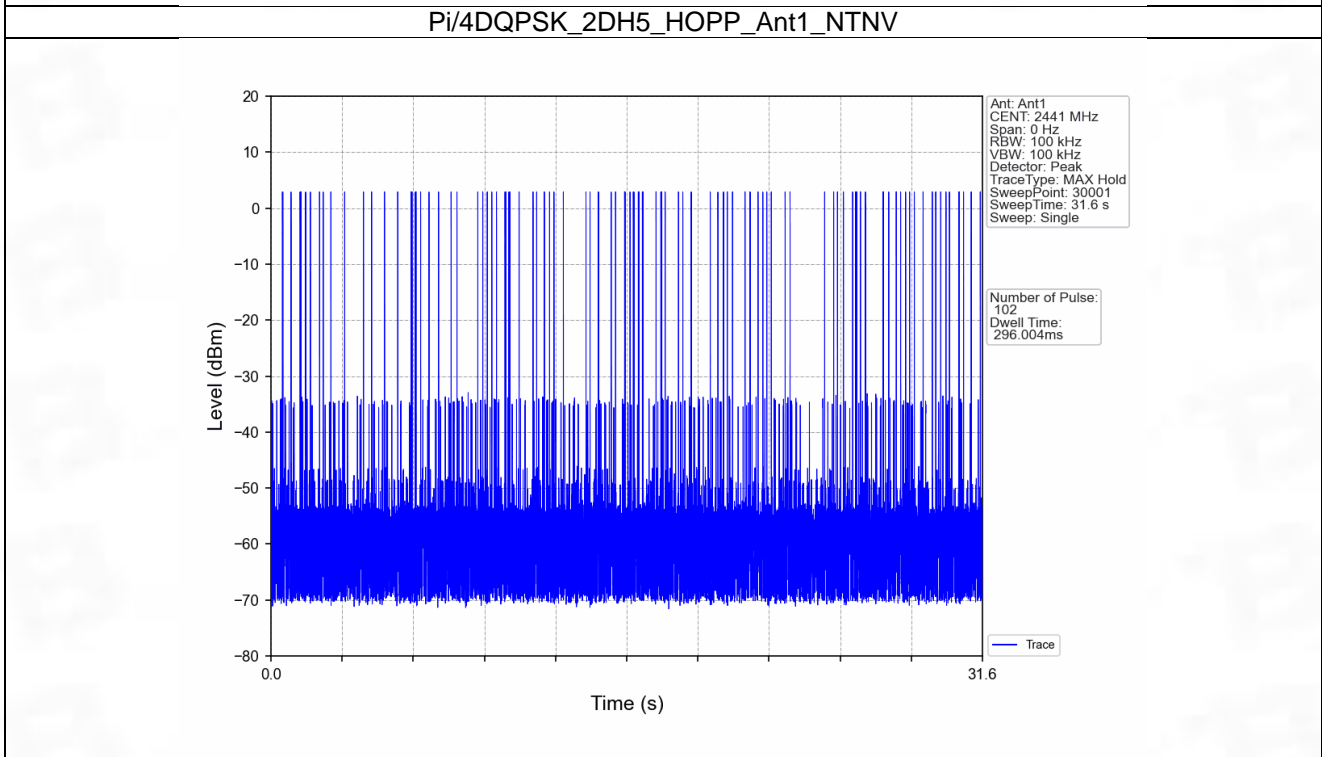
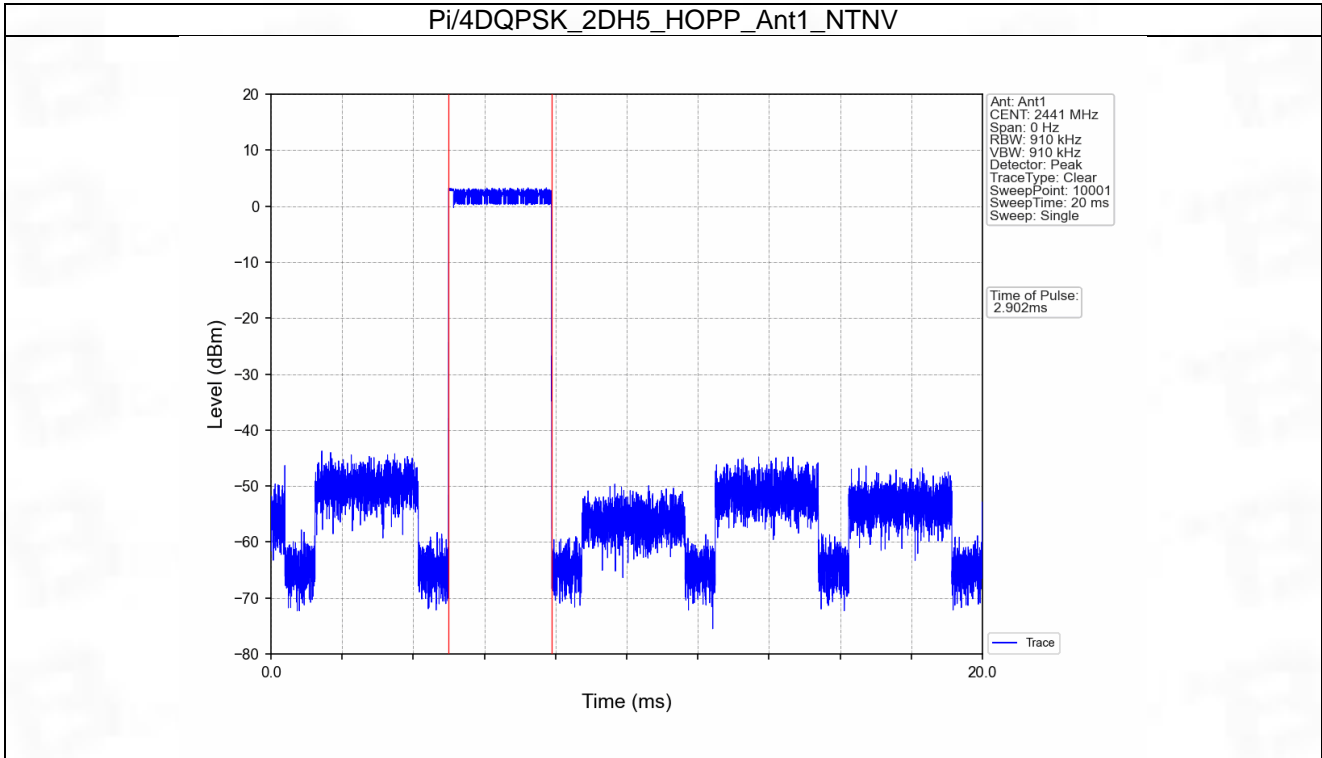


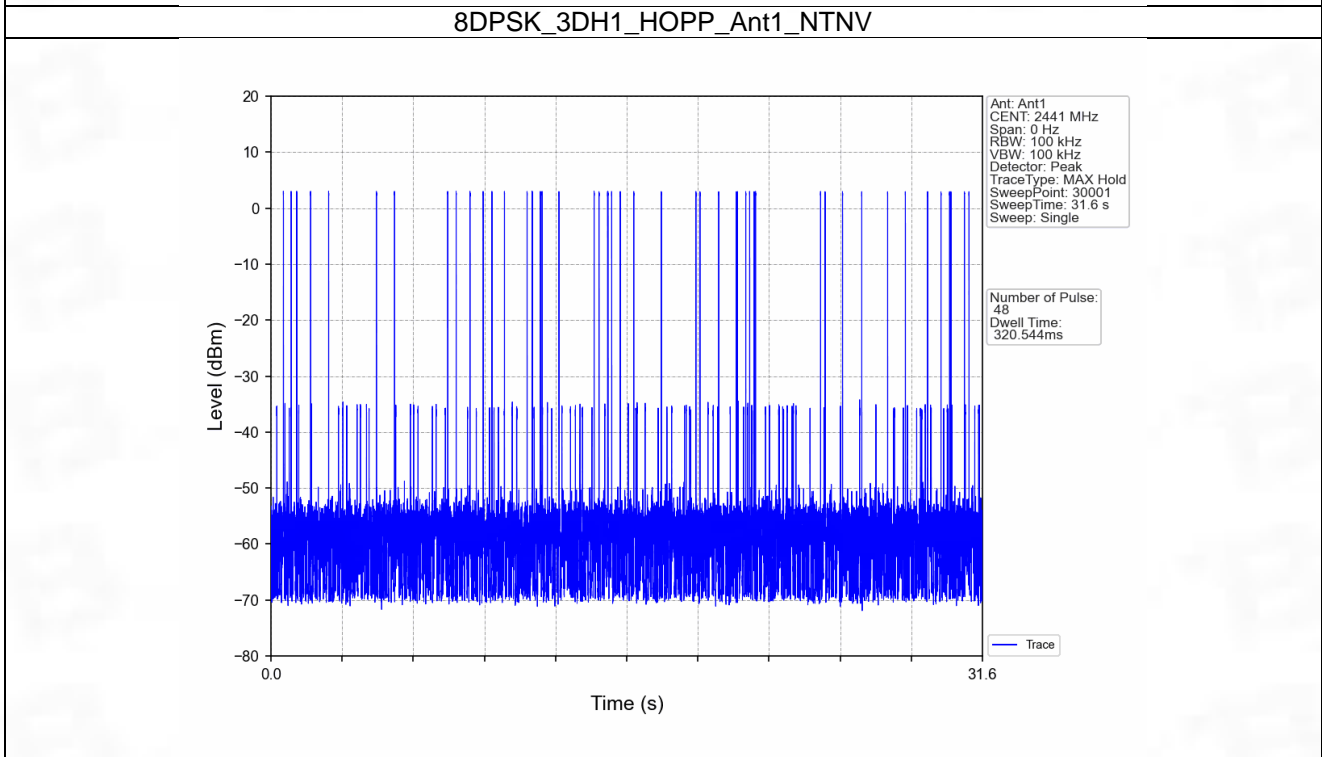
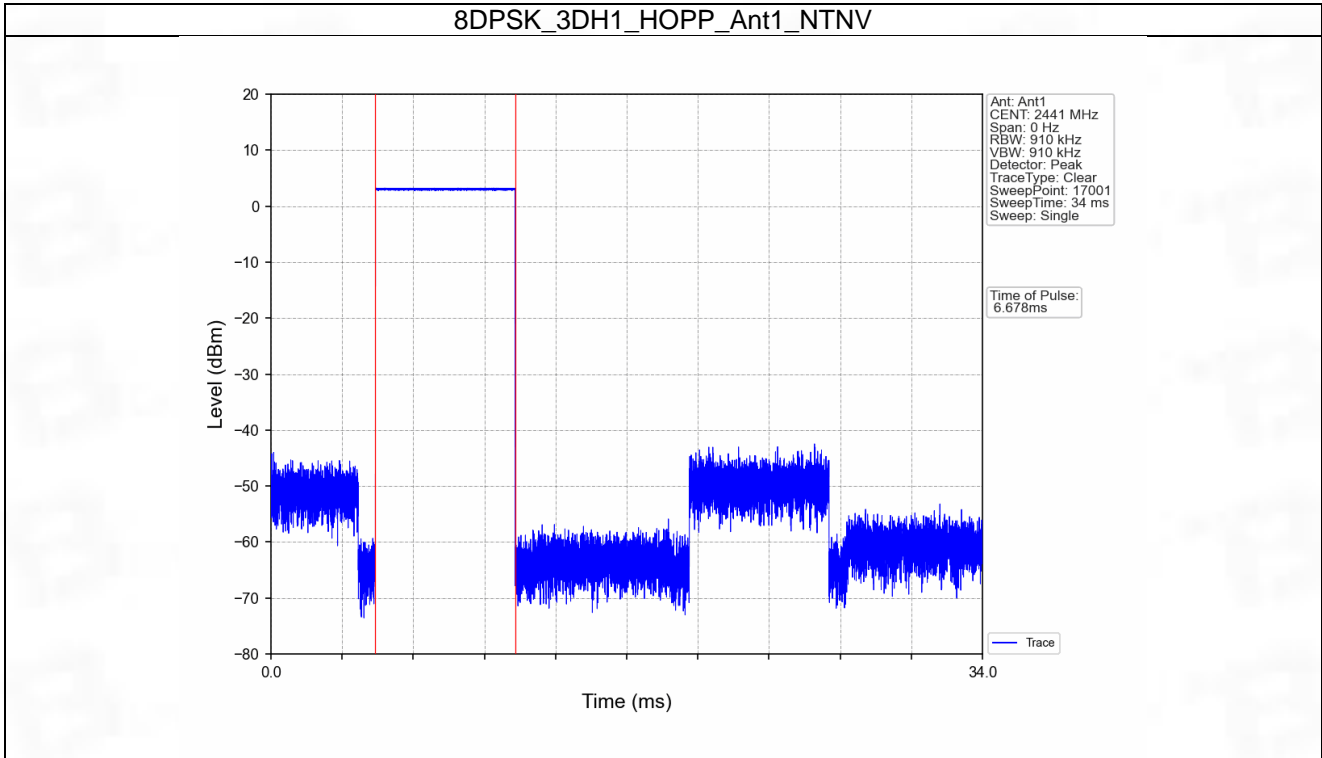


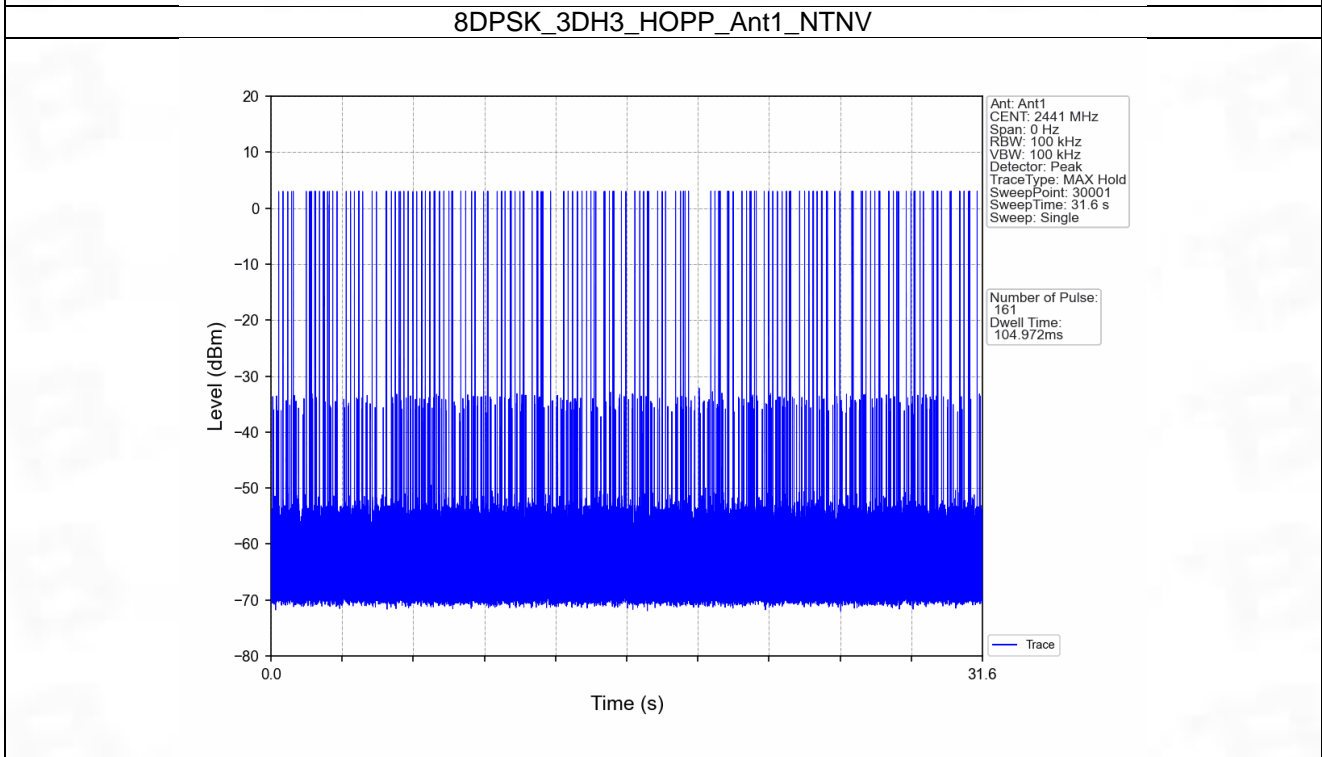
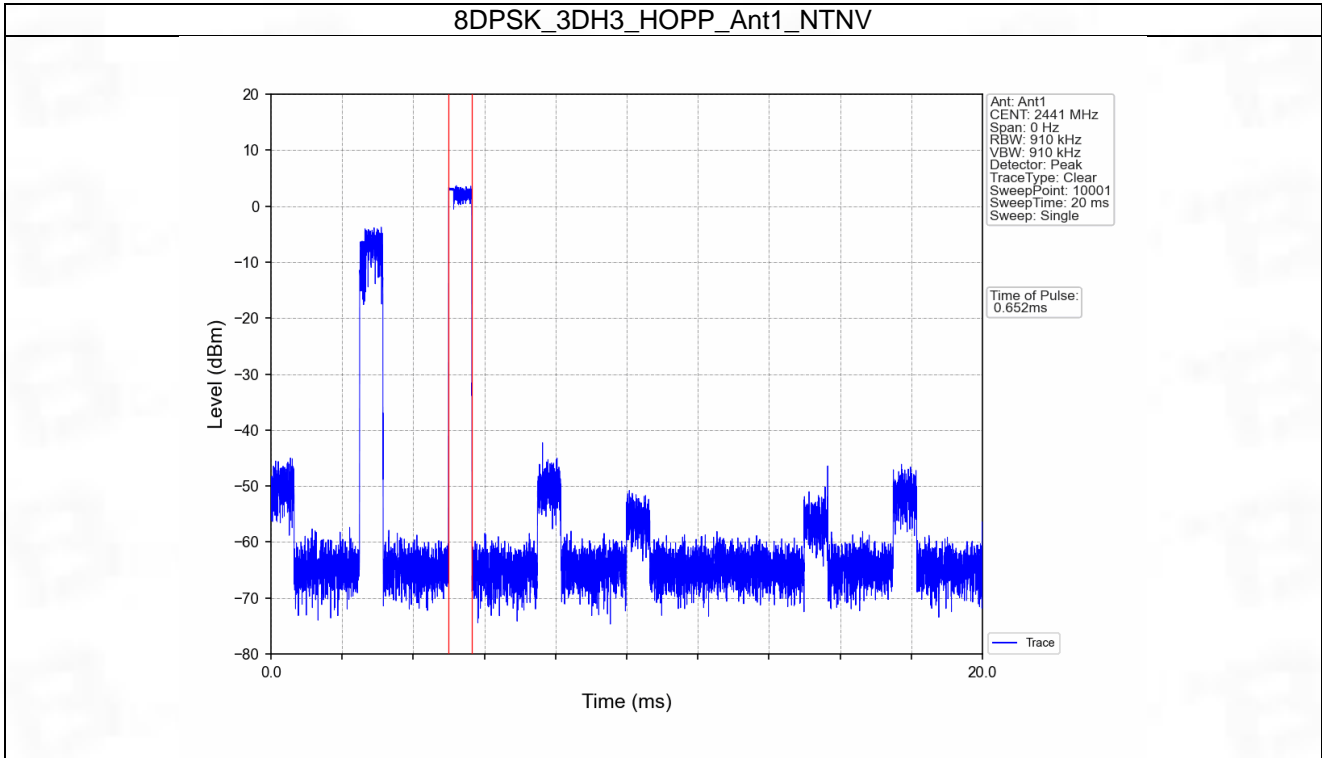


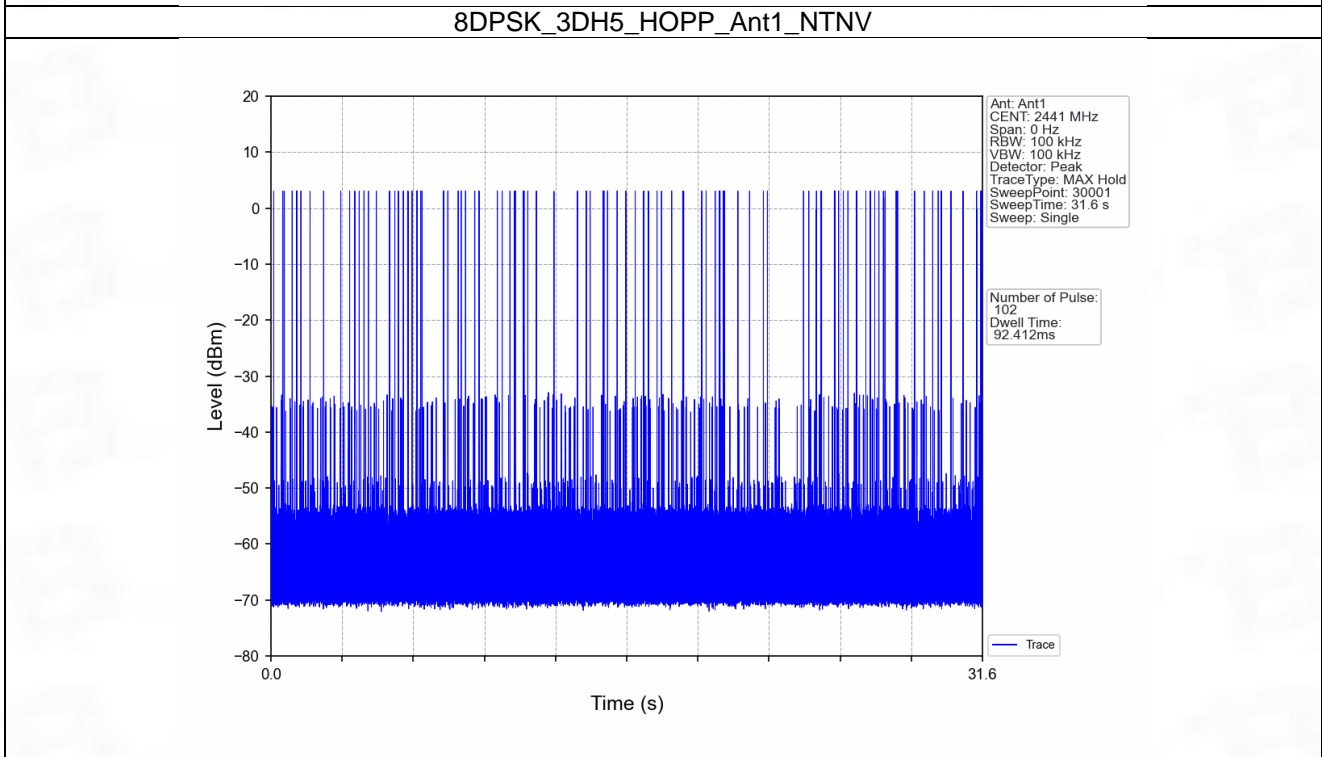
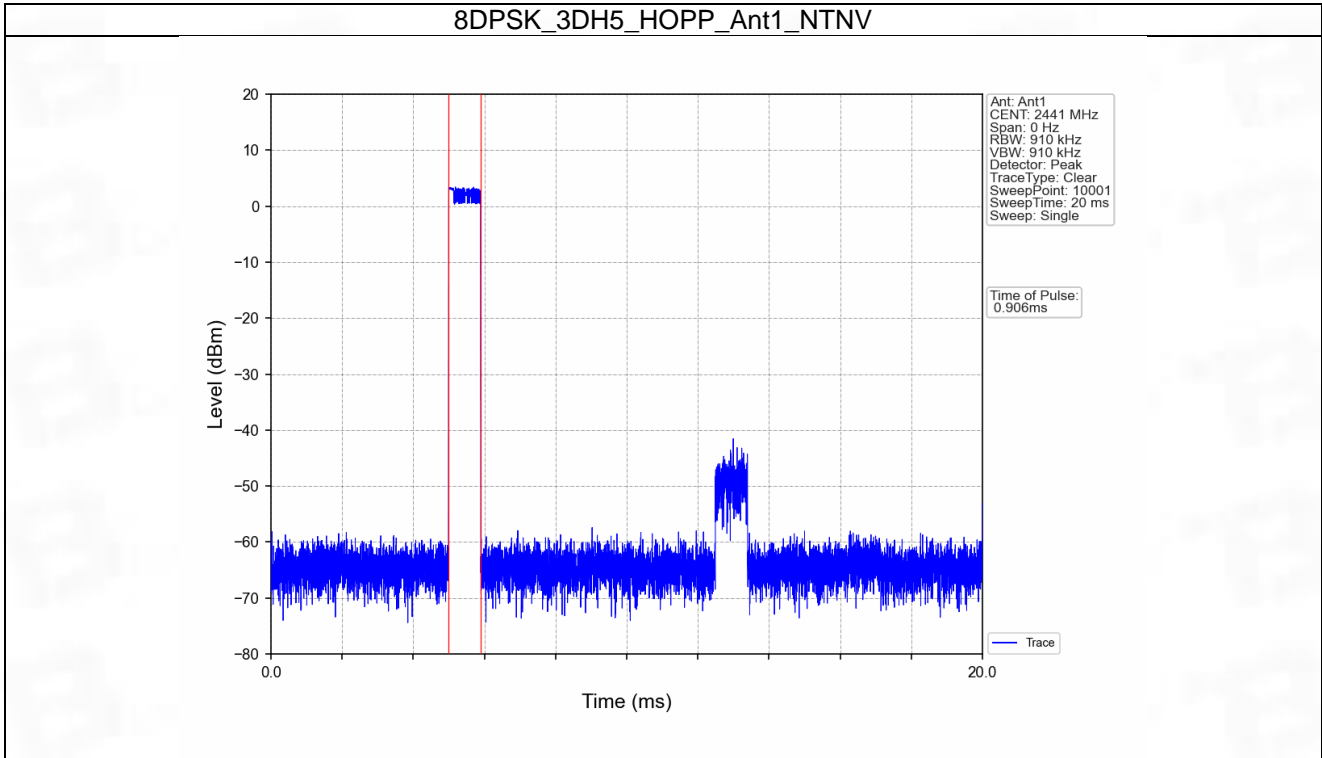












## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

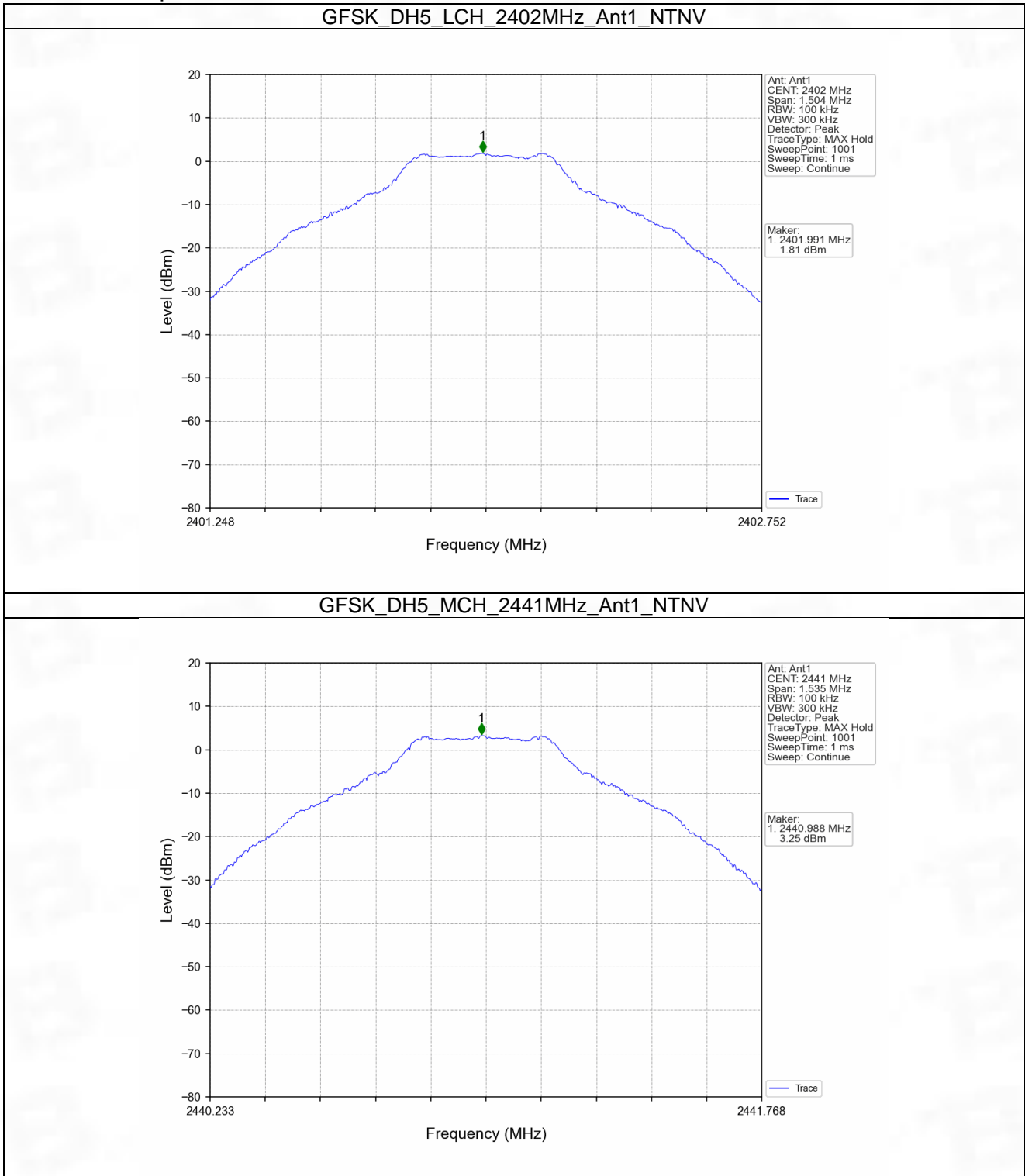
#### 6.1.1 Test Result

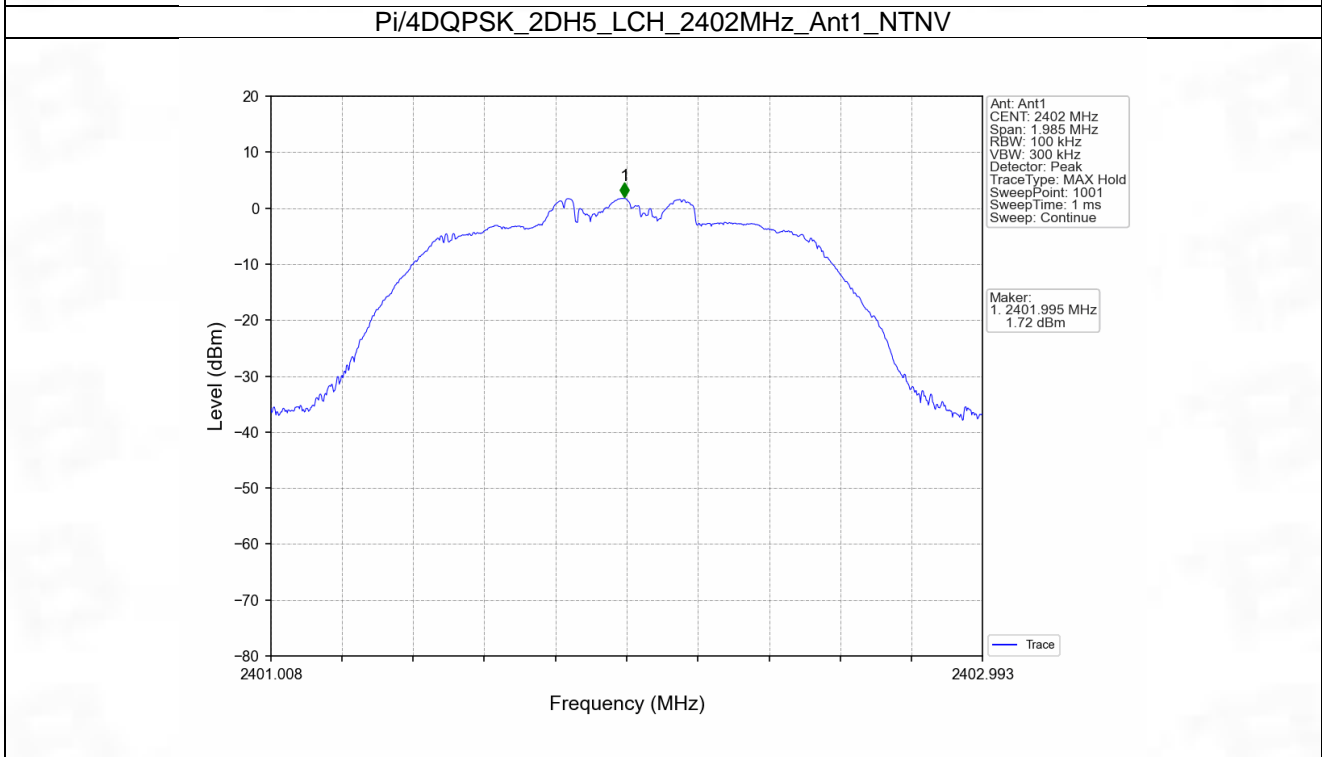
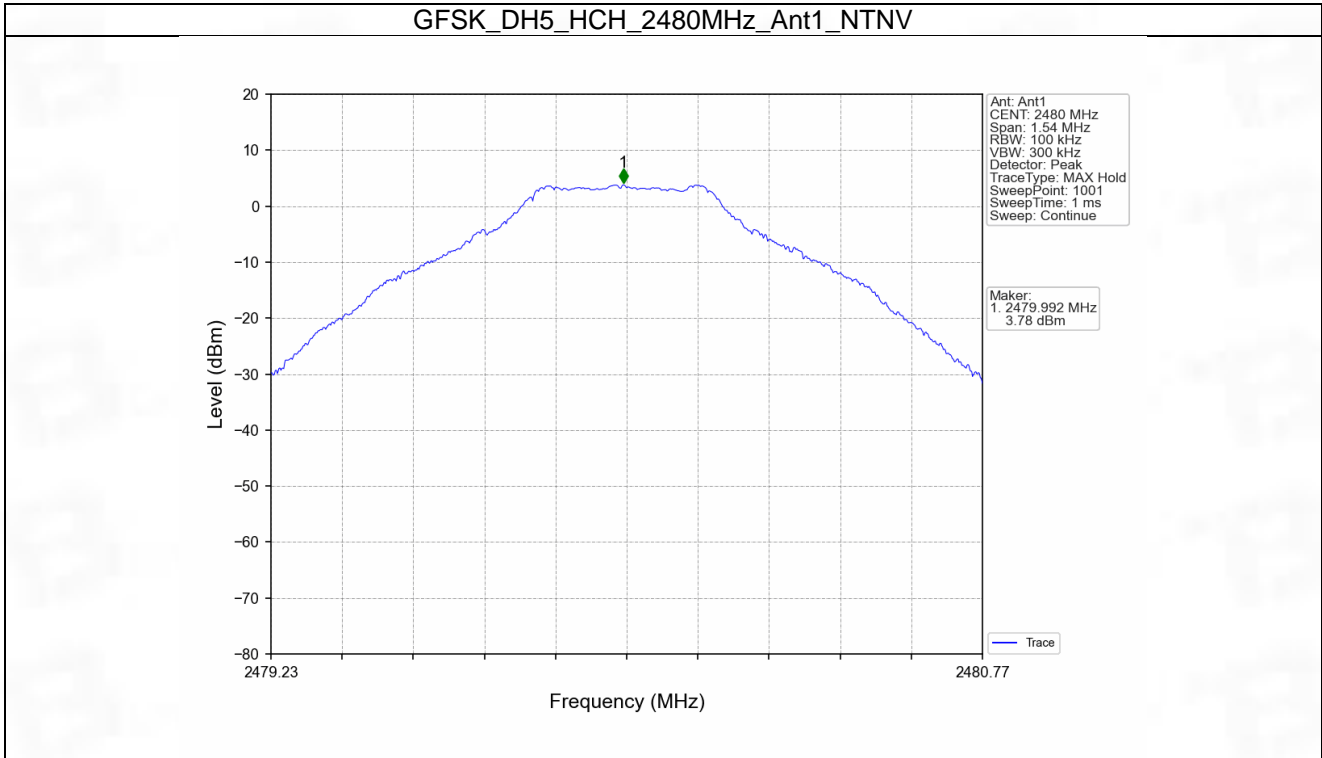
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	1.81
		2441	DH5	1	3.25
		2480	DH5	1	3.78
Pi/4DQPSK	SISO	2402	2DH5	1	1.72
		2441	2DH5	1	3.16
		2480	2DH5	1	3.75
8DPSK	SISO	2402	3DH5	1	1.92
		2441	3DH5	1	3.33
		2480	3DH5	1	4.02

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.

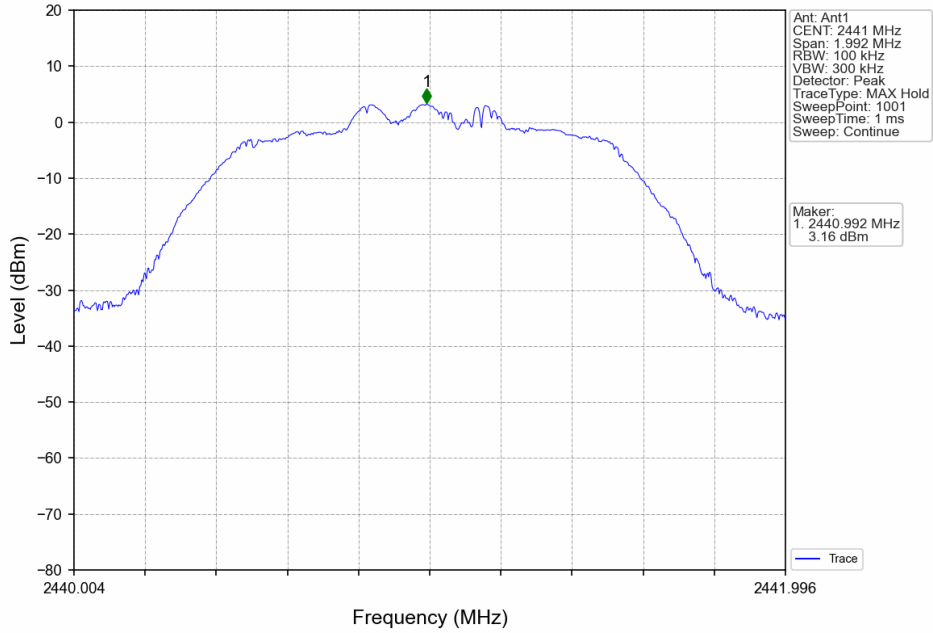


### 6.1.2 Test Graph

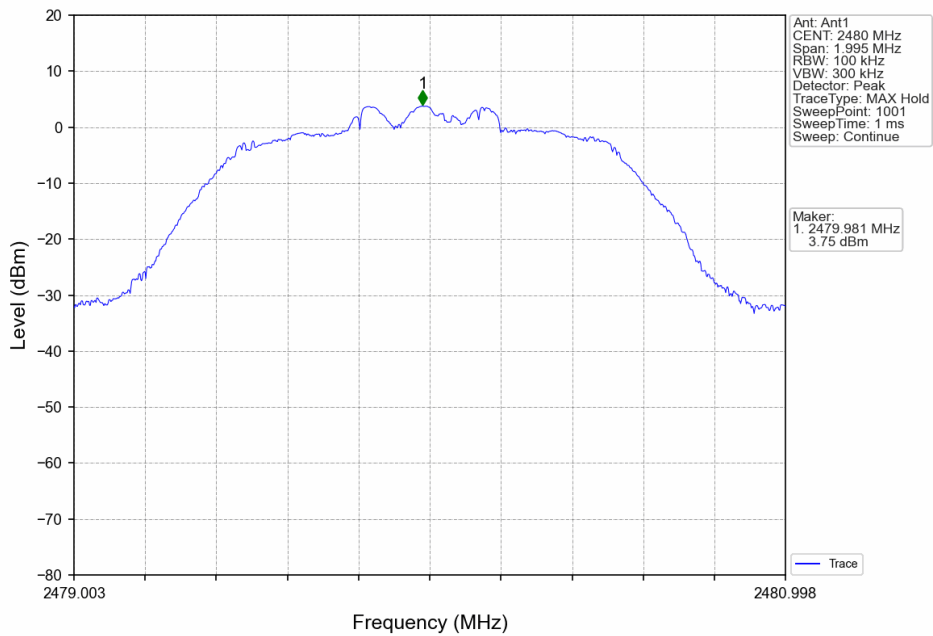




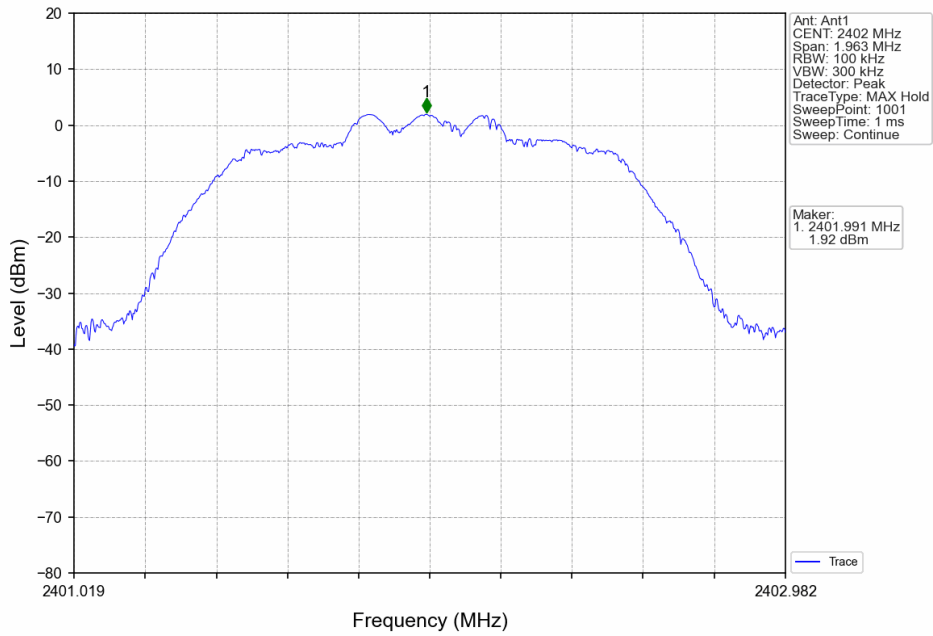
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



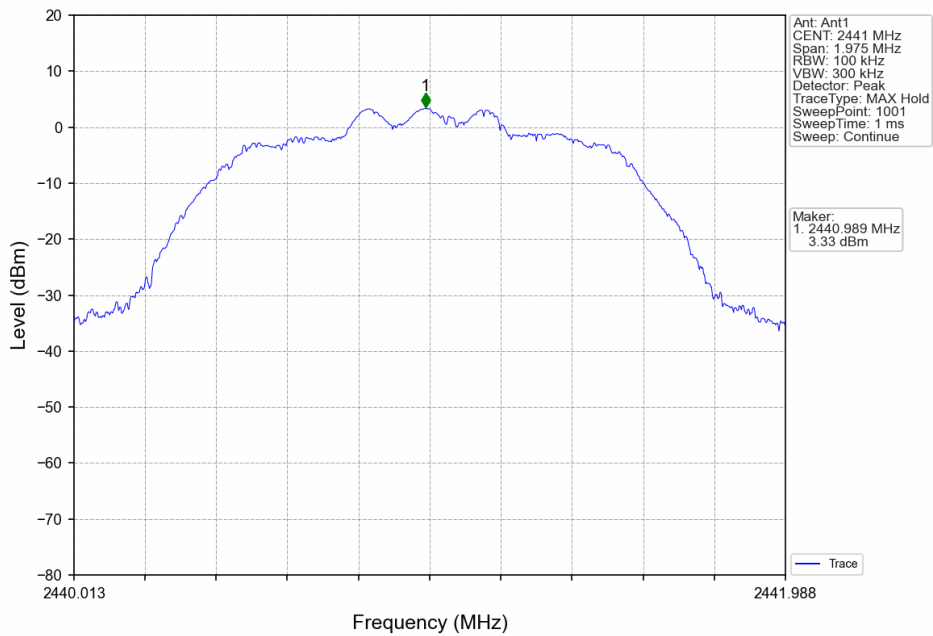
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

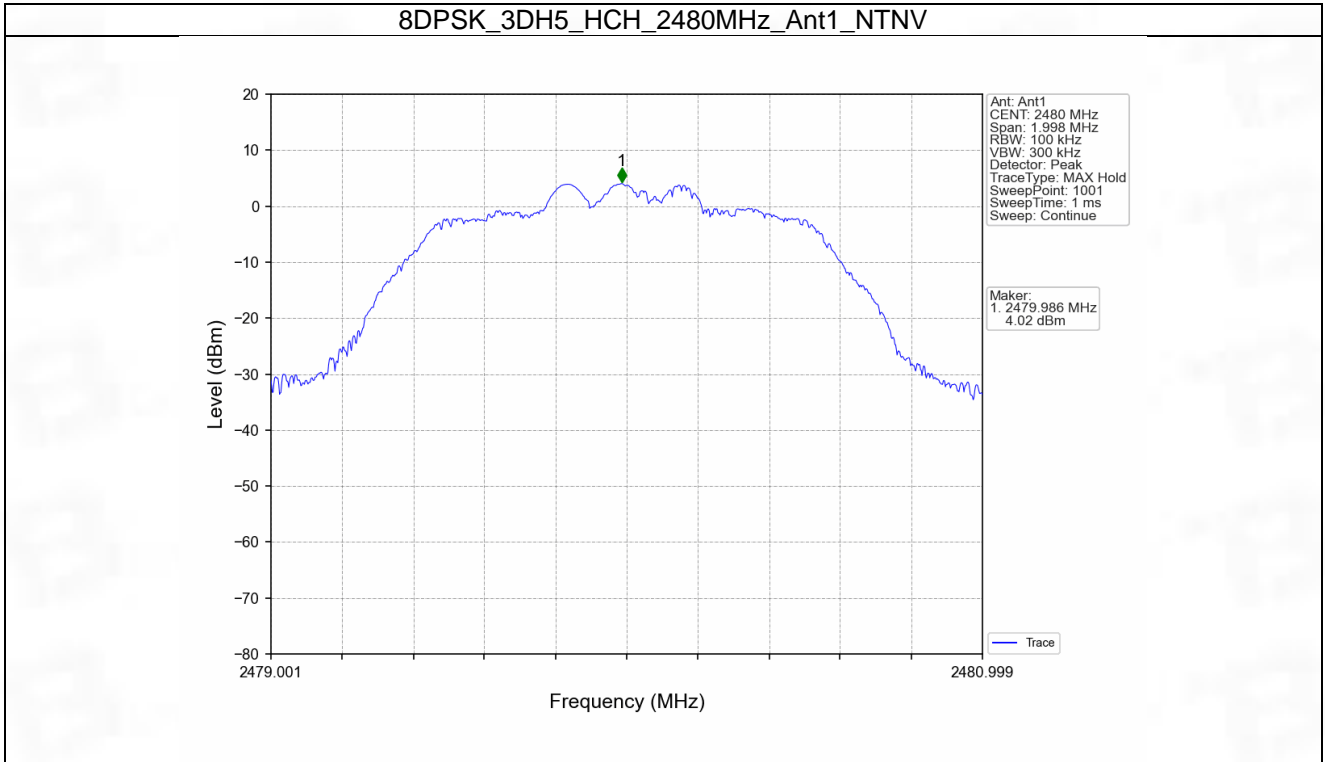


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV





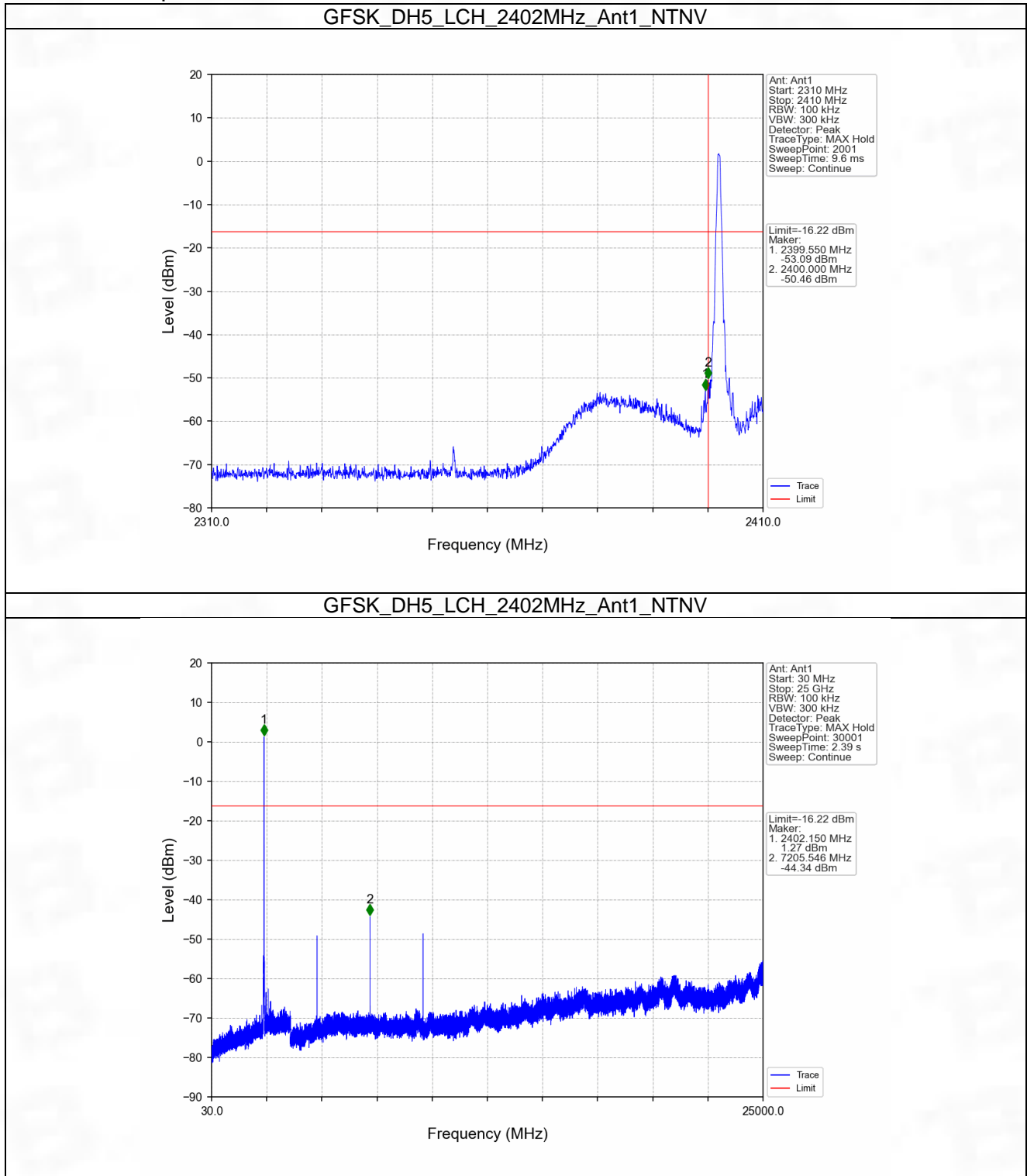
6.2 CSE

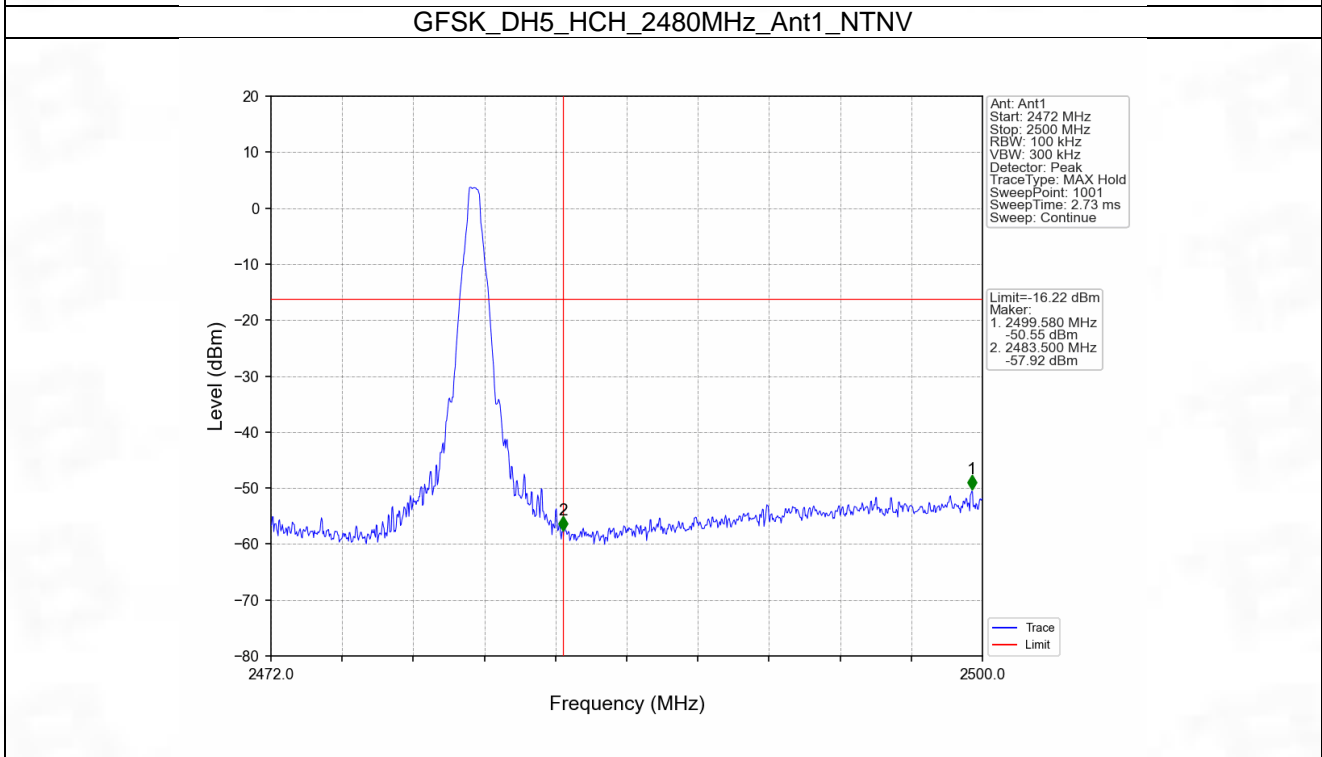
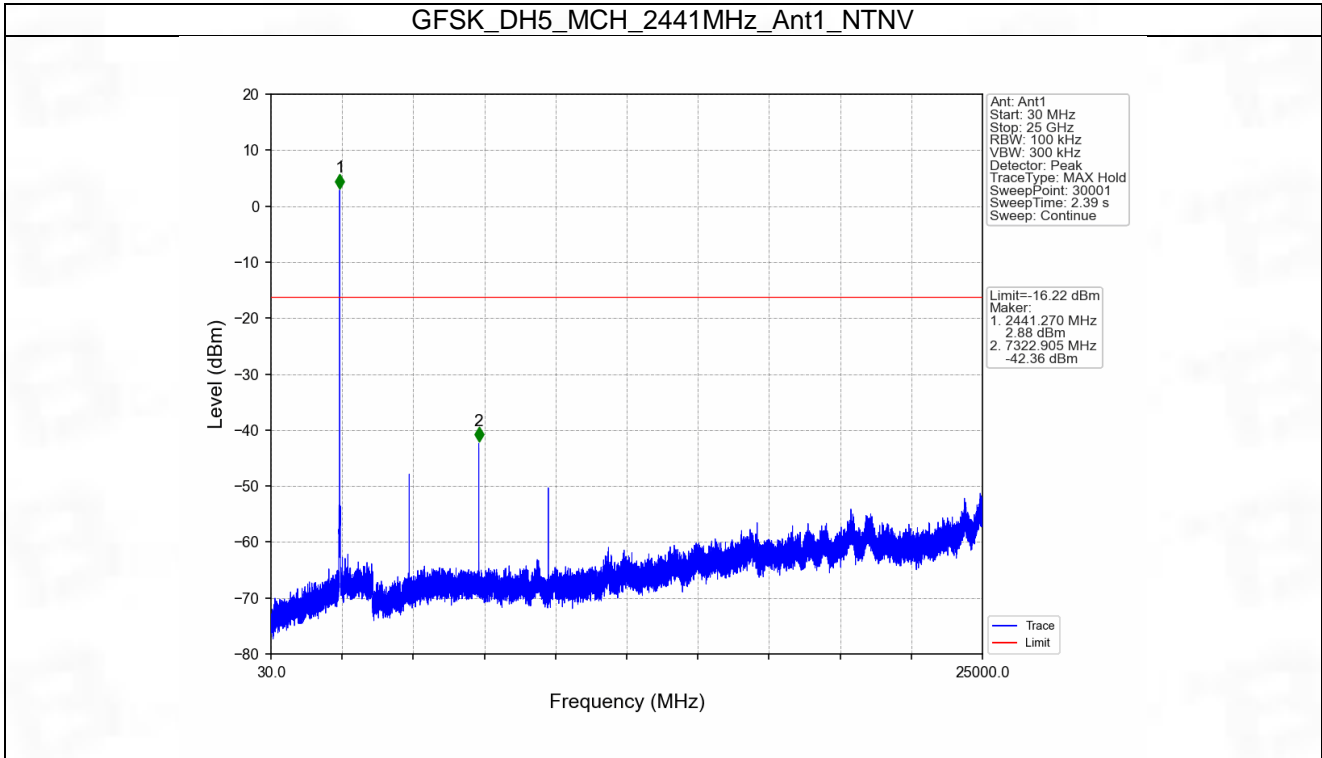
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.78	-16.22	Pass
		2441	DH5	1	3.78	-16.22	Pass
		2480	DH5	1	3.78	-16.22	Pass
		HOPP	DH5	1	3.78	-16.22	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.75	-16.25	Pass
		2441	2DH5	1	3.75	-16.25	Pass
		2480	2DH5	1	3.75	-16.25	Pass
		HOPP	2DH5	1	3.75	-16.25	Pass
8DPSK	SISO	2402	3DH5	1	4.02	-15.98	Pass
		2441	3DH5	1	4.02	-15.98	Pass
		2480	3DH5	1	4.02	-15.98	Pass
		HOPP	3DH5	1	4.02	-15.98	Pass

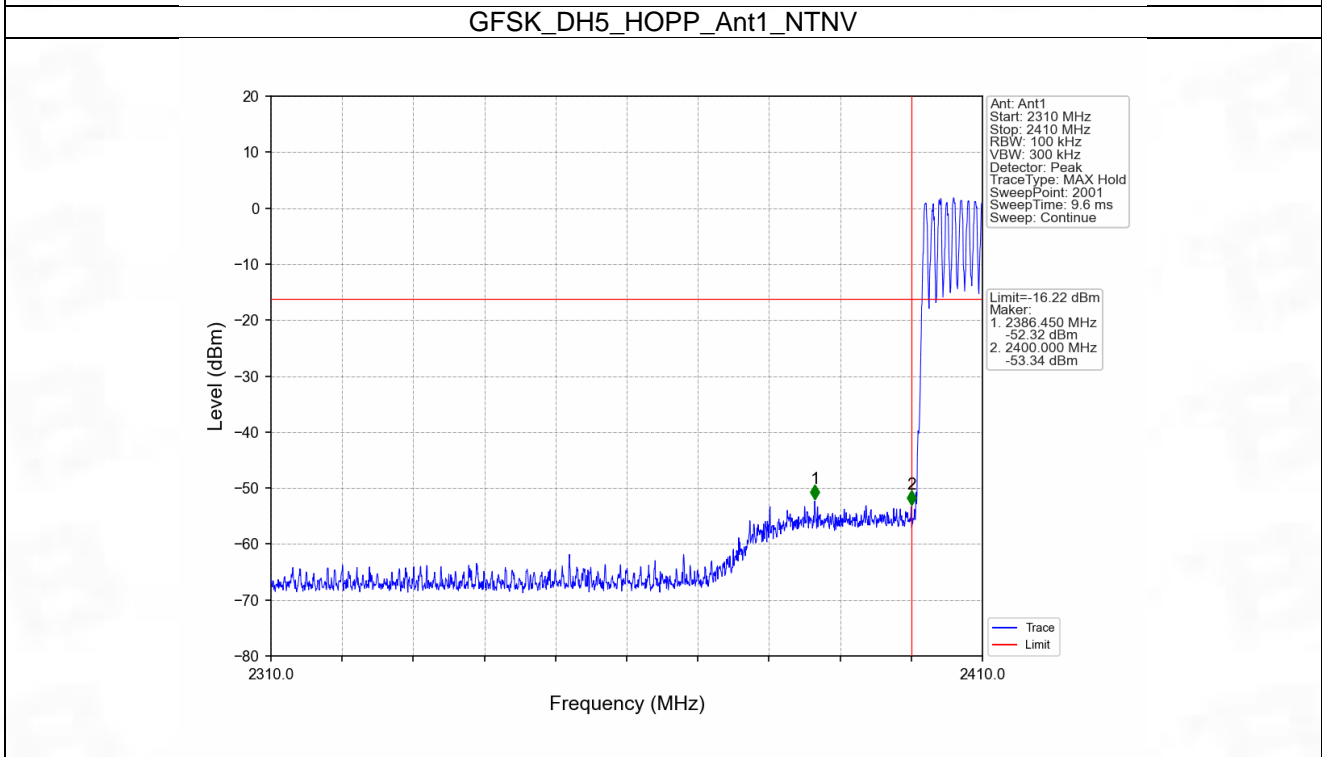
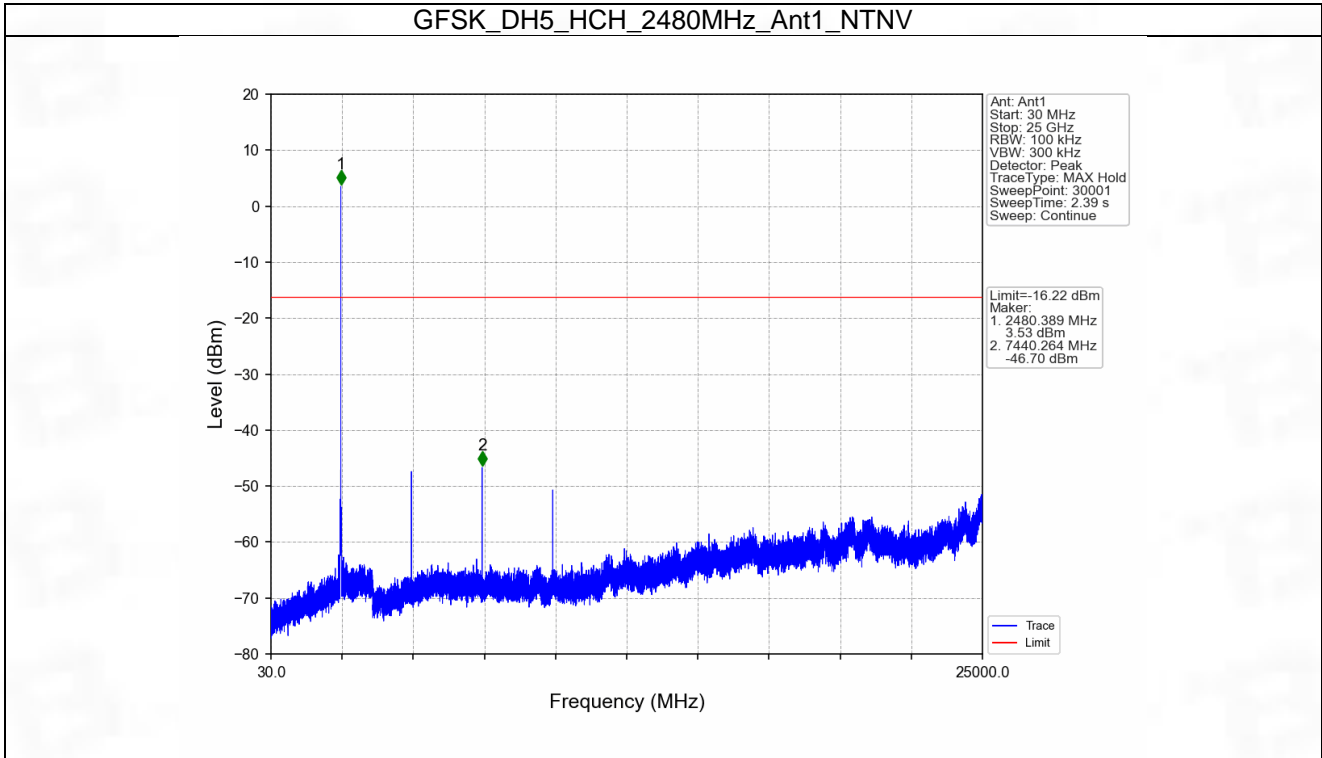
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

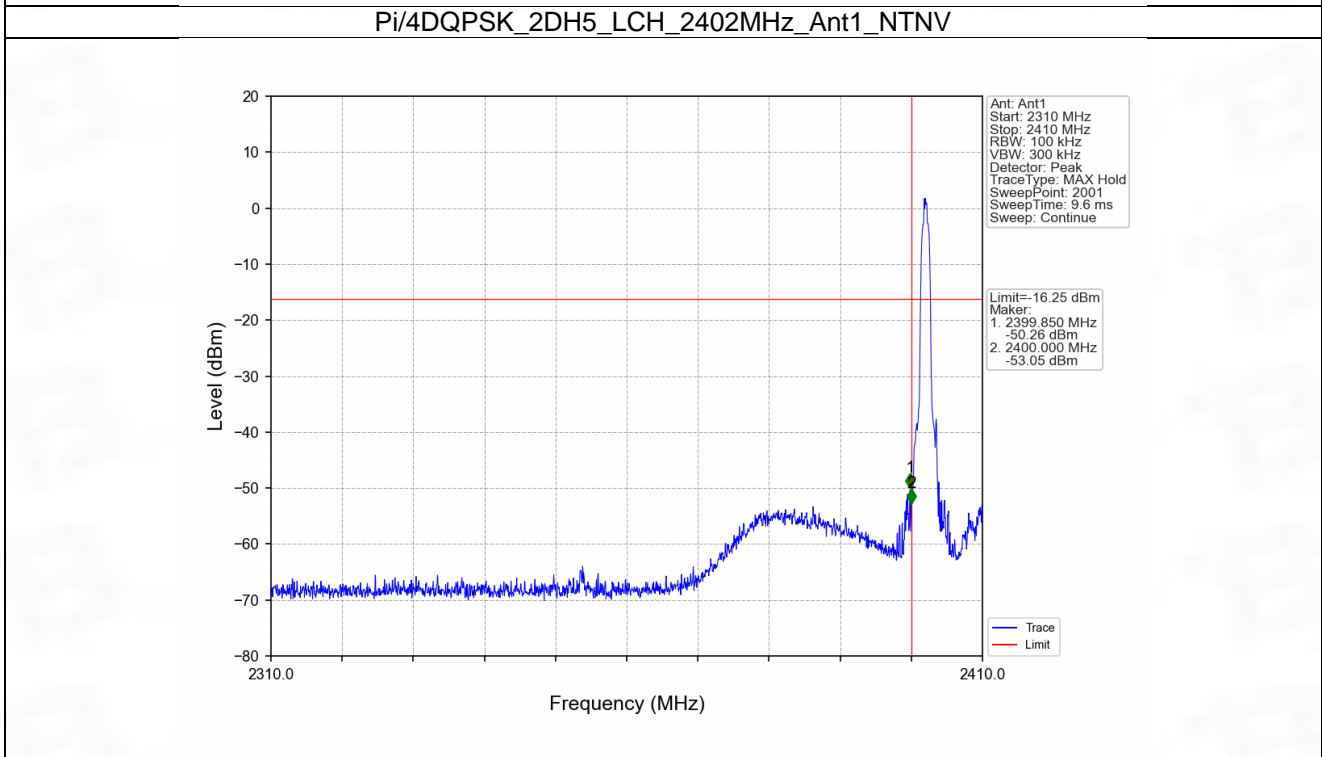
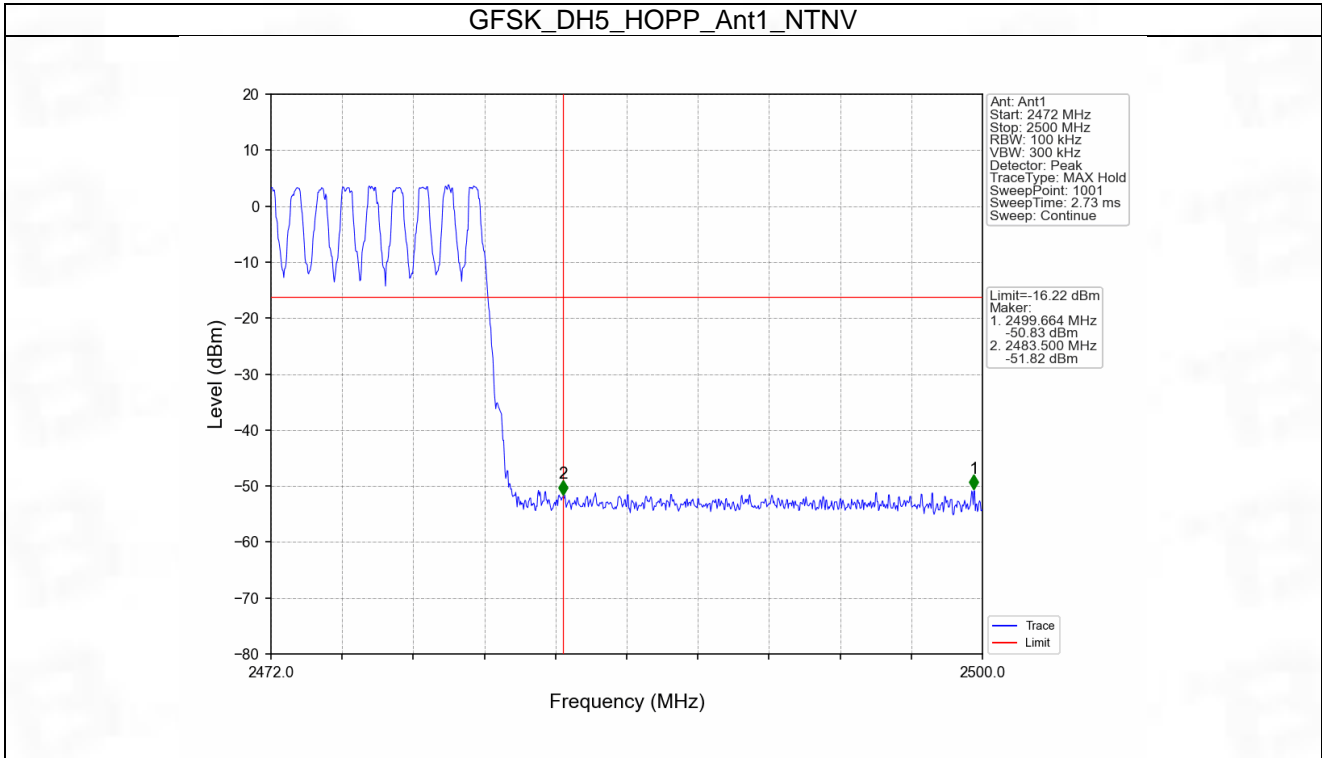
6.2.2 Test Graph

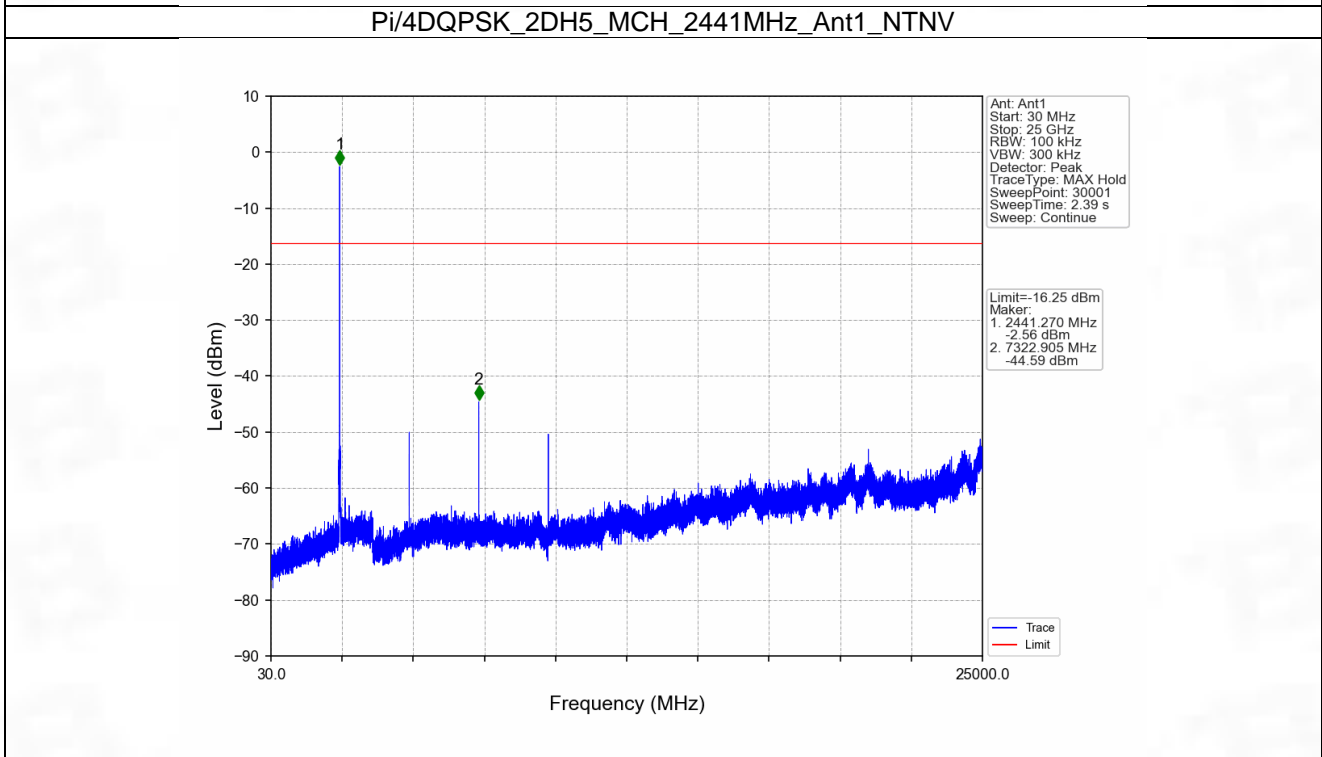
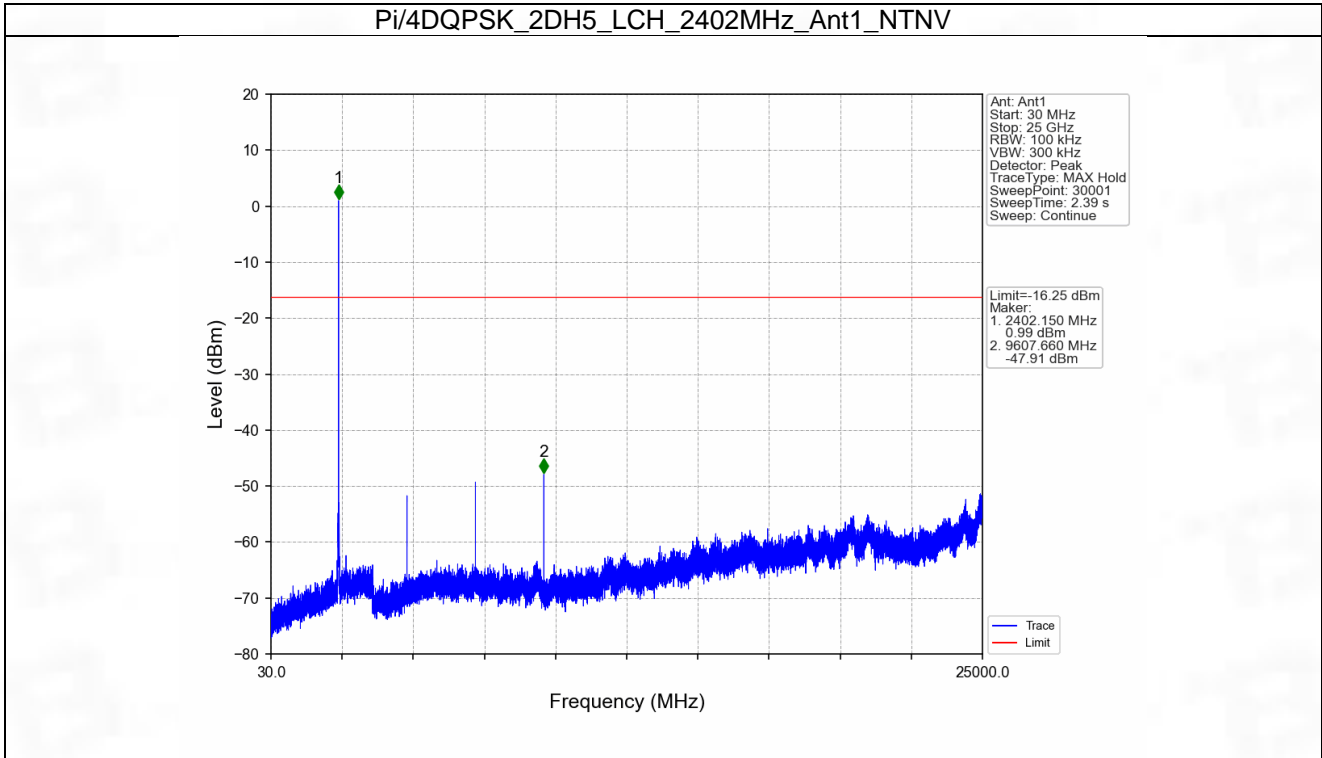


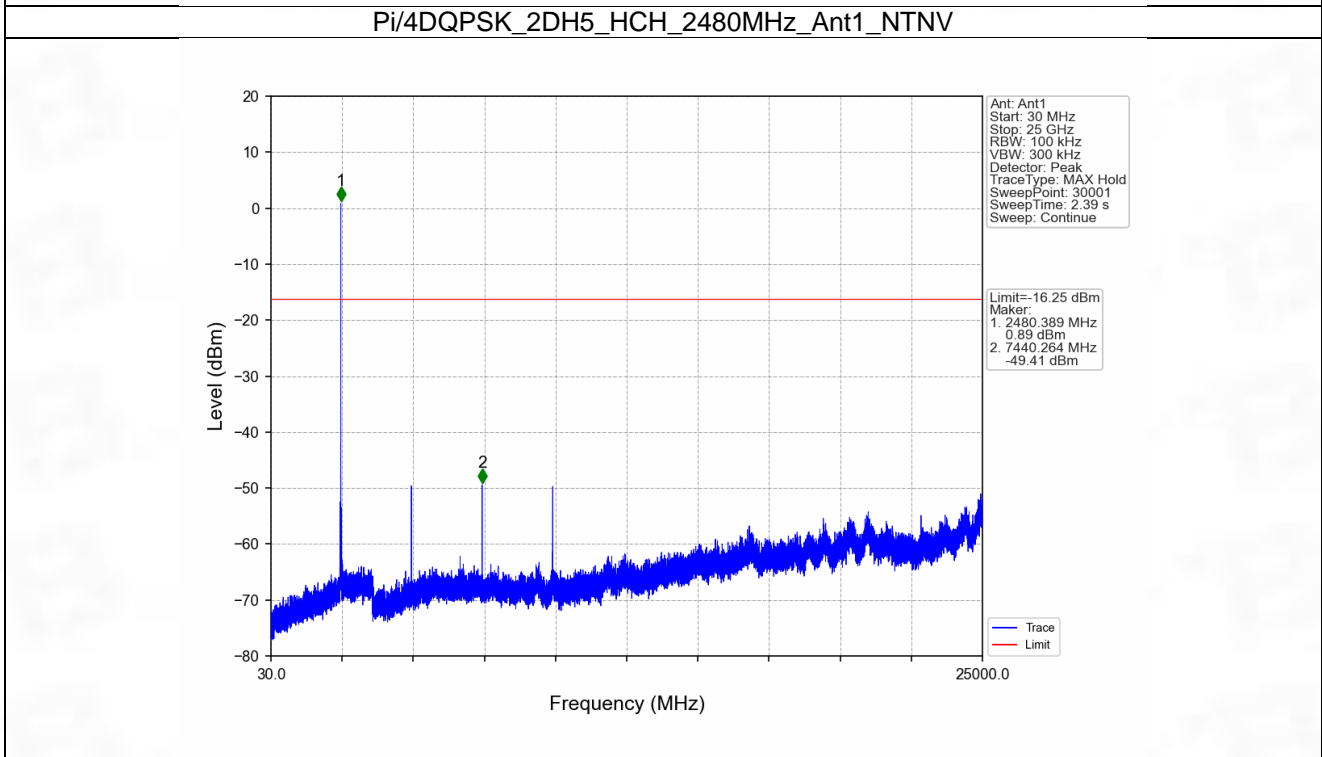
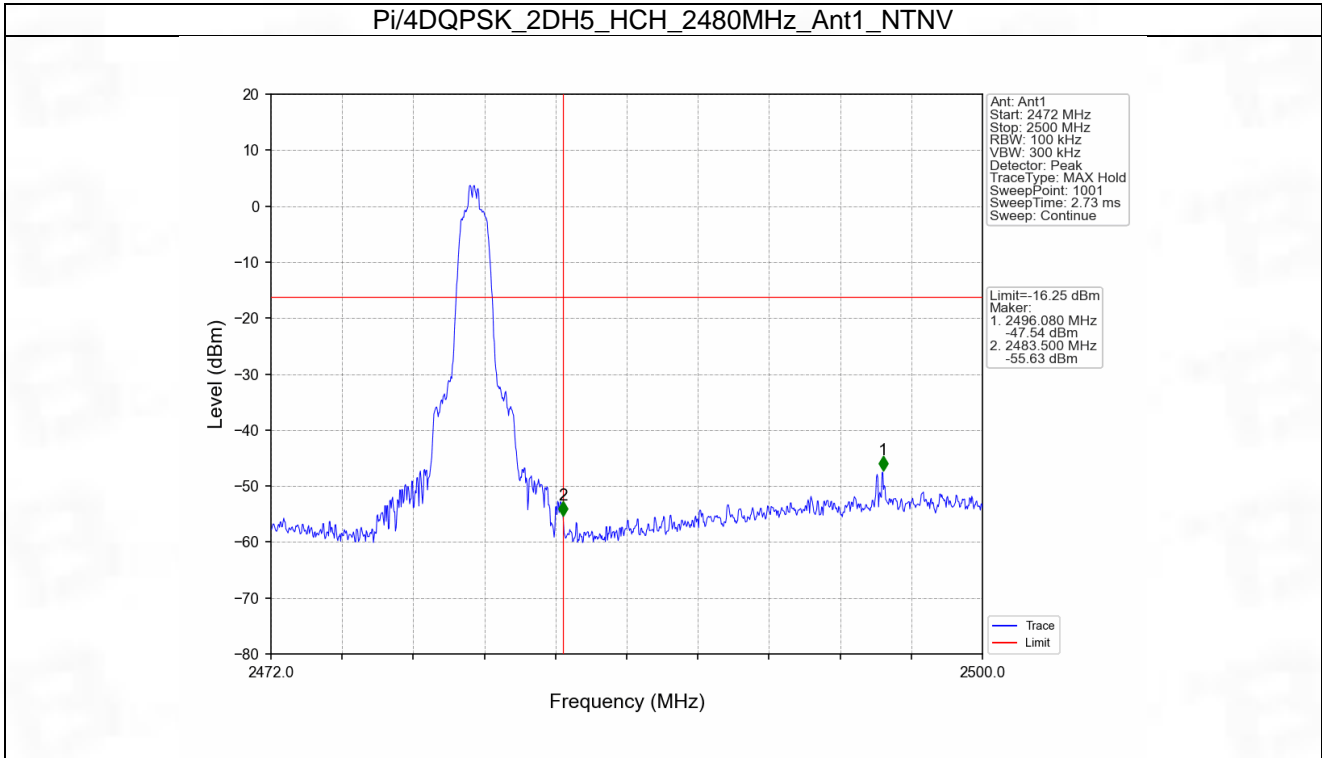


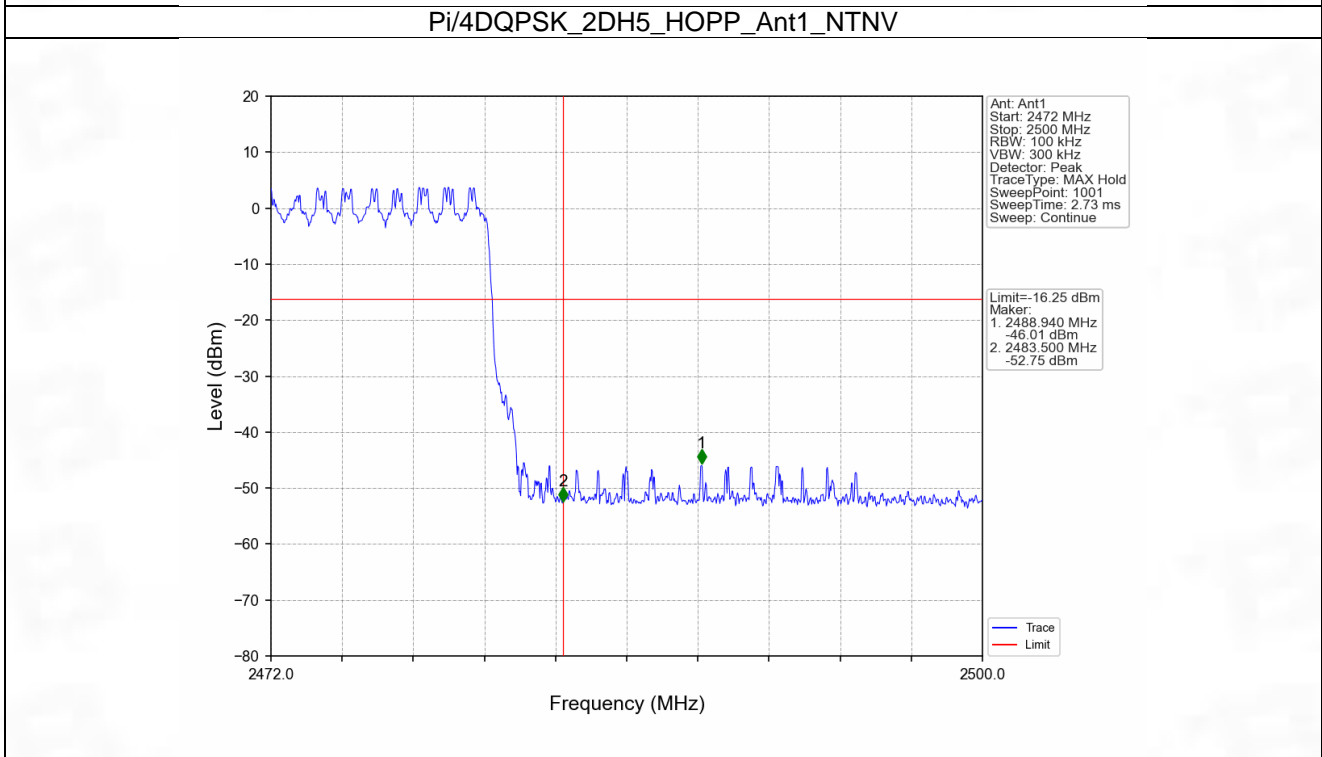
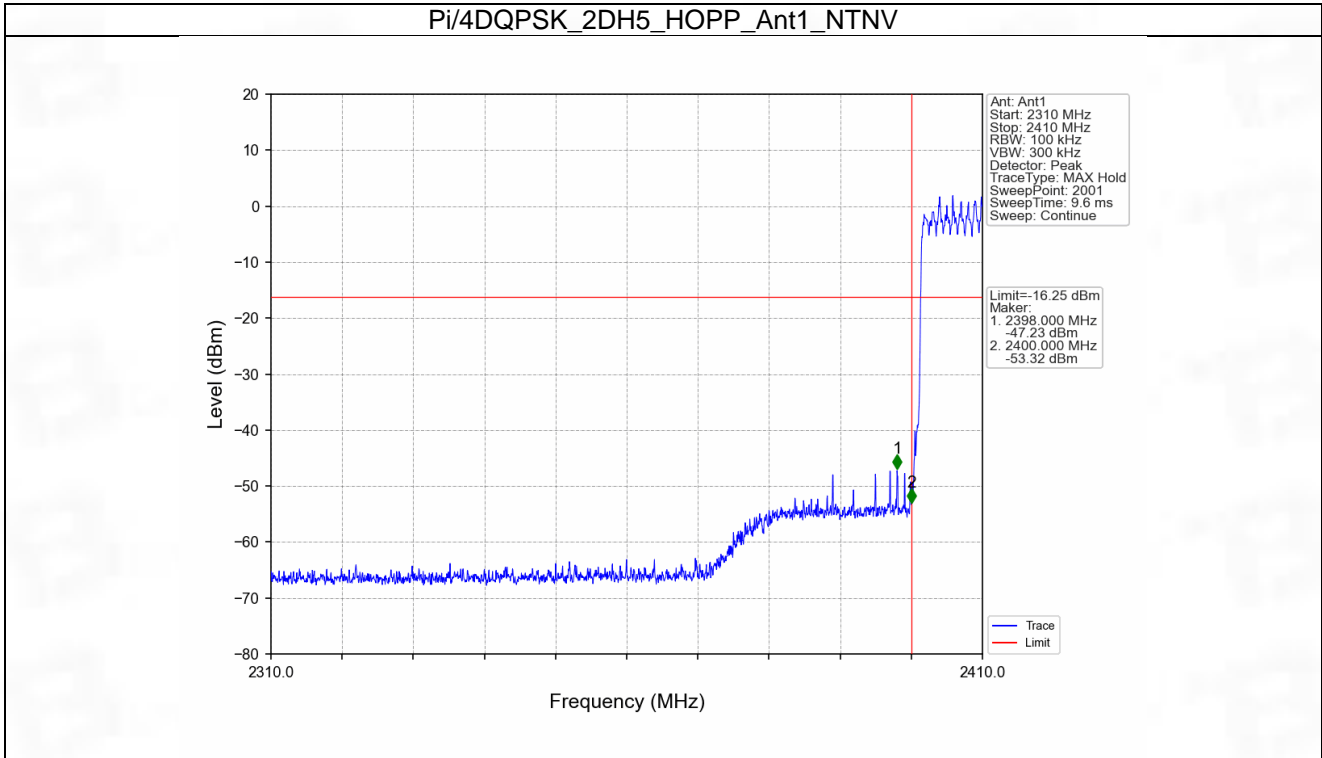


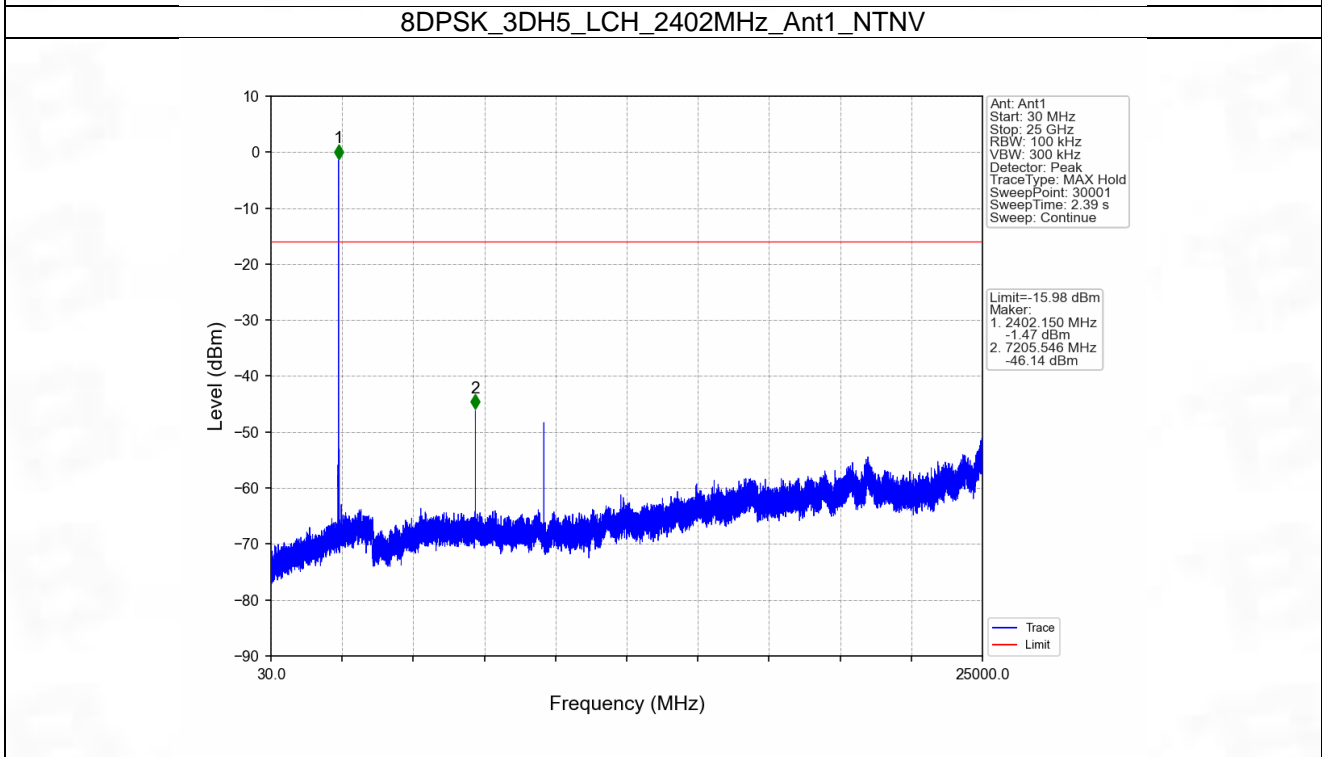
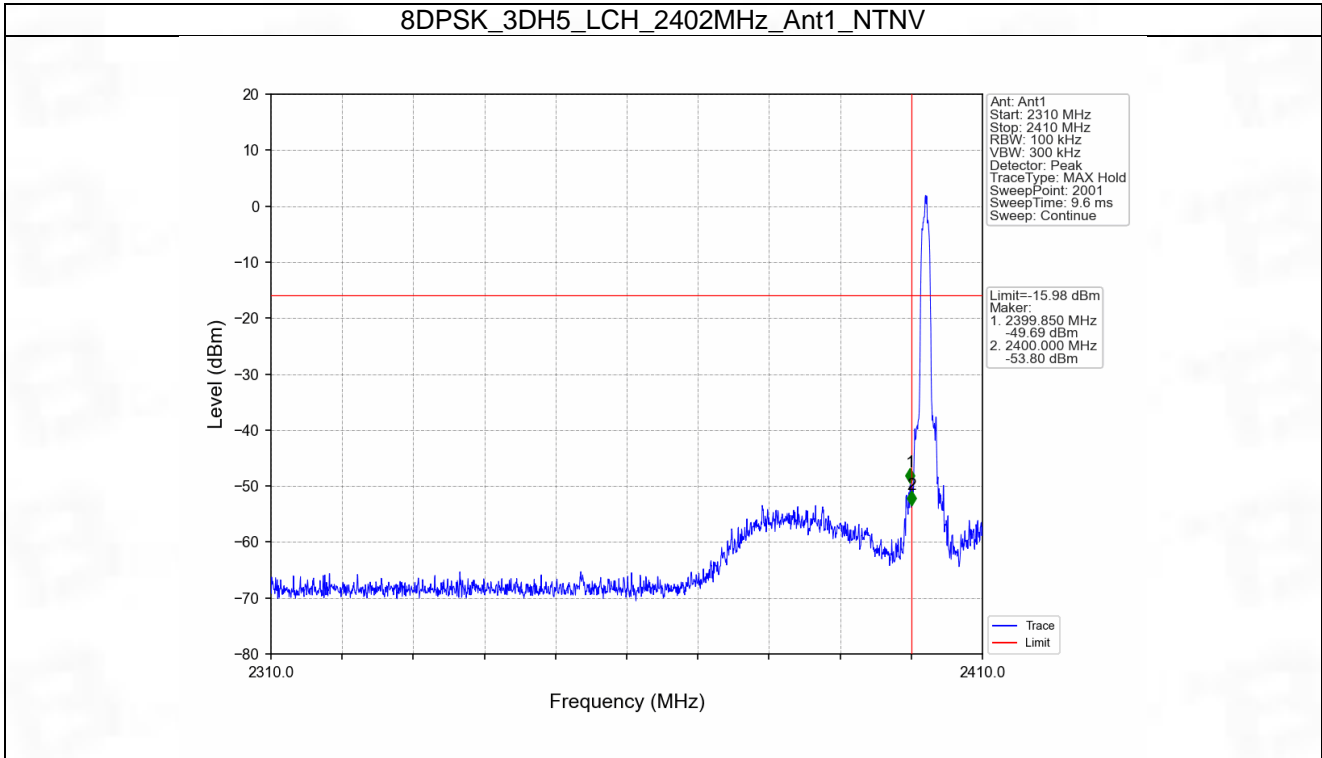


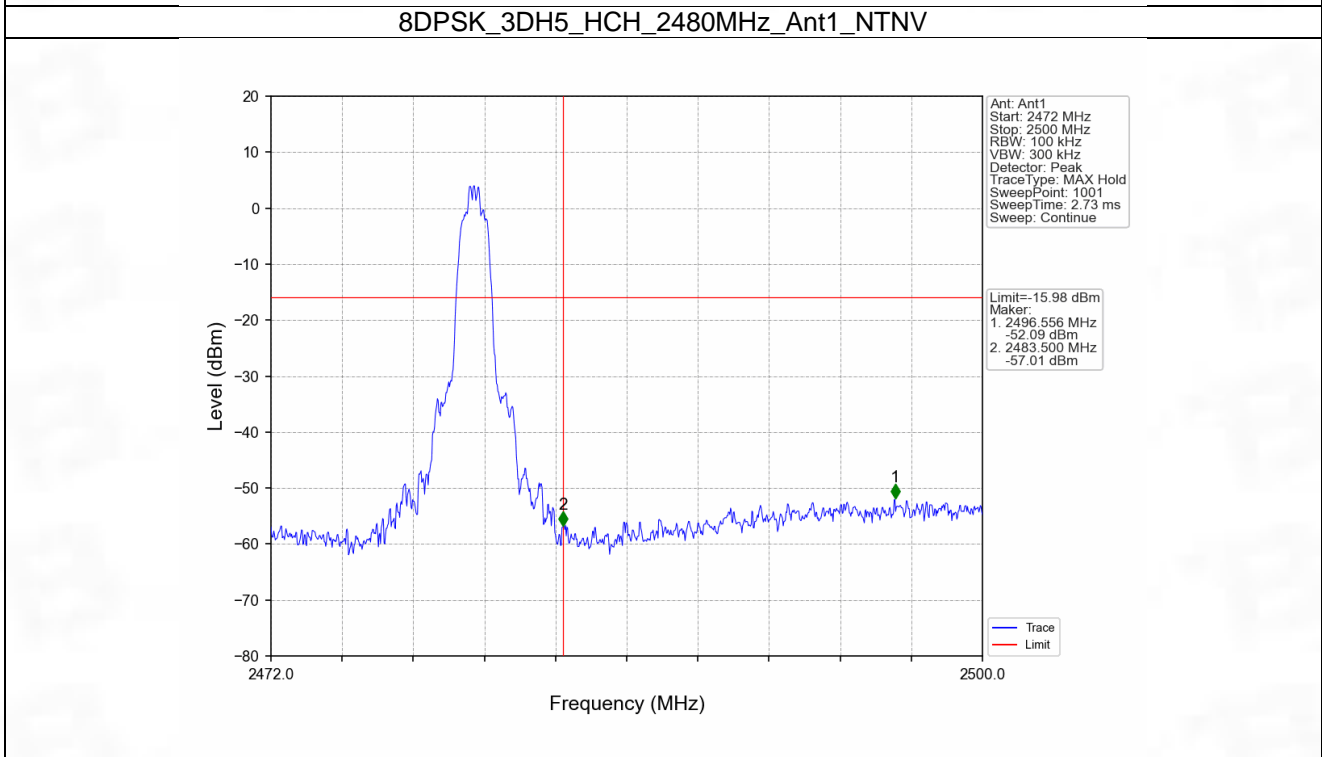
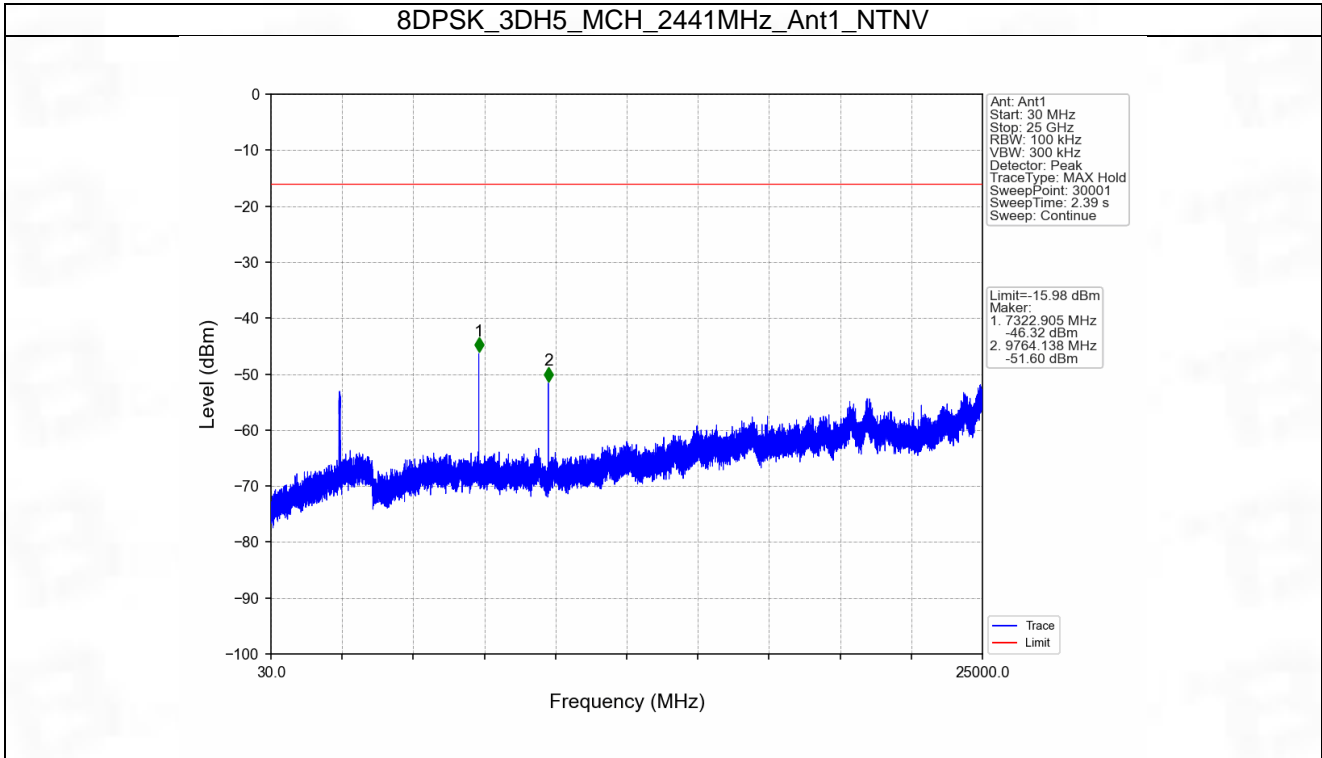


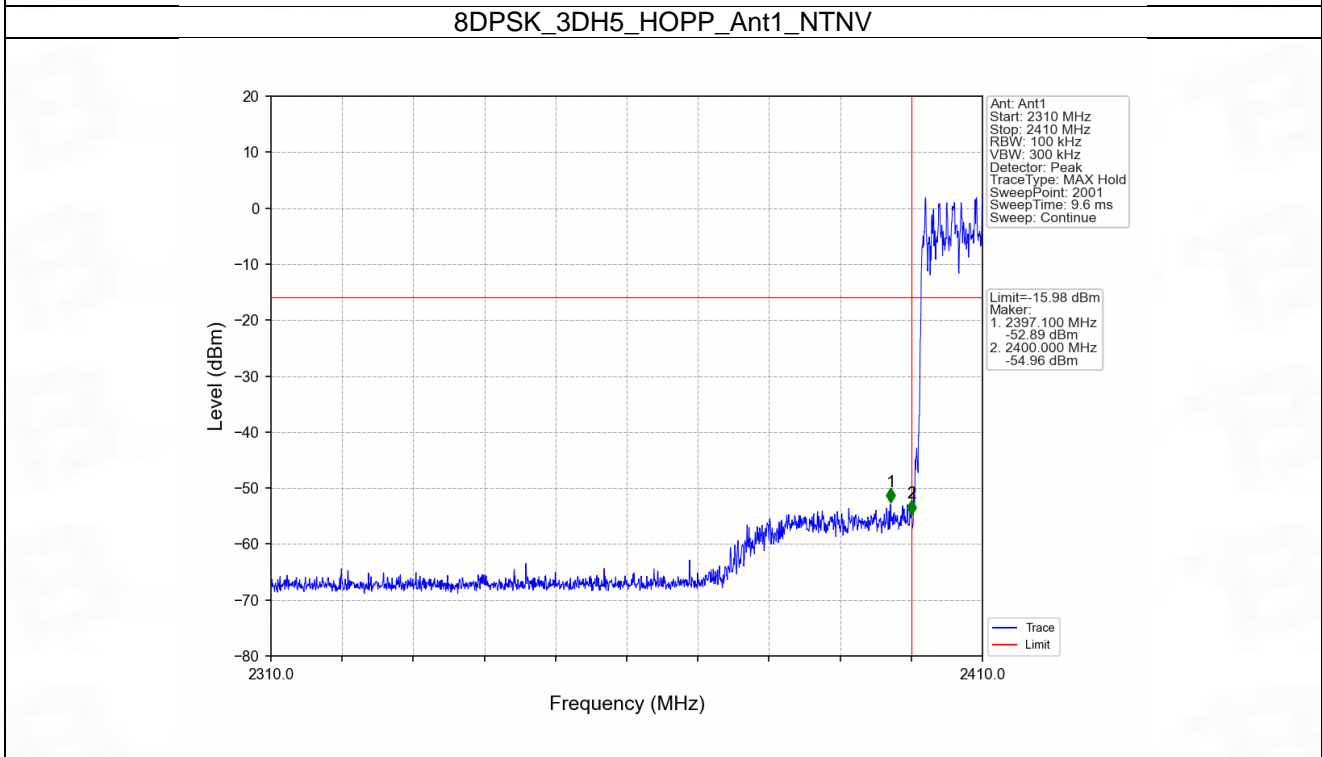
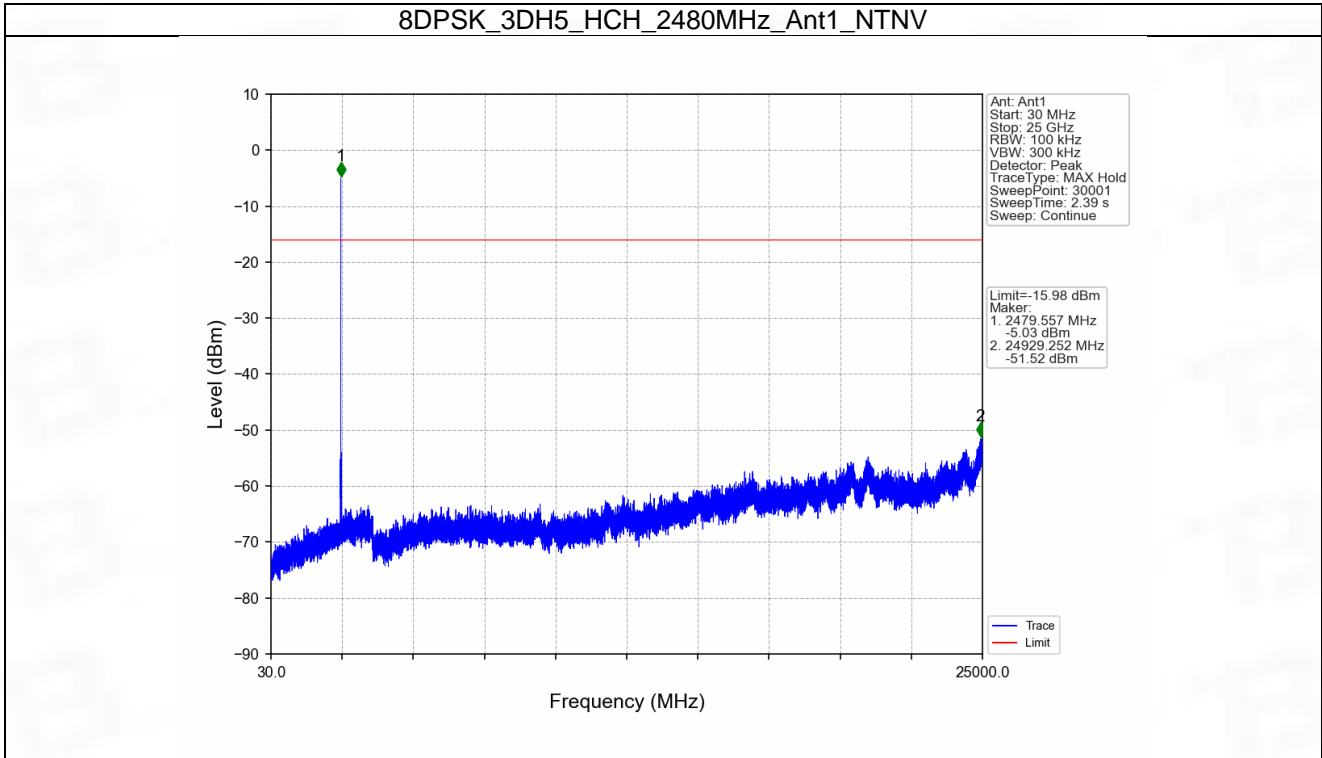




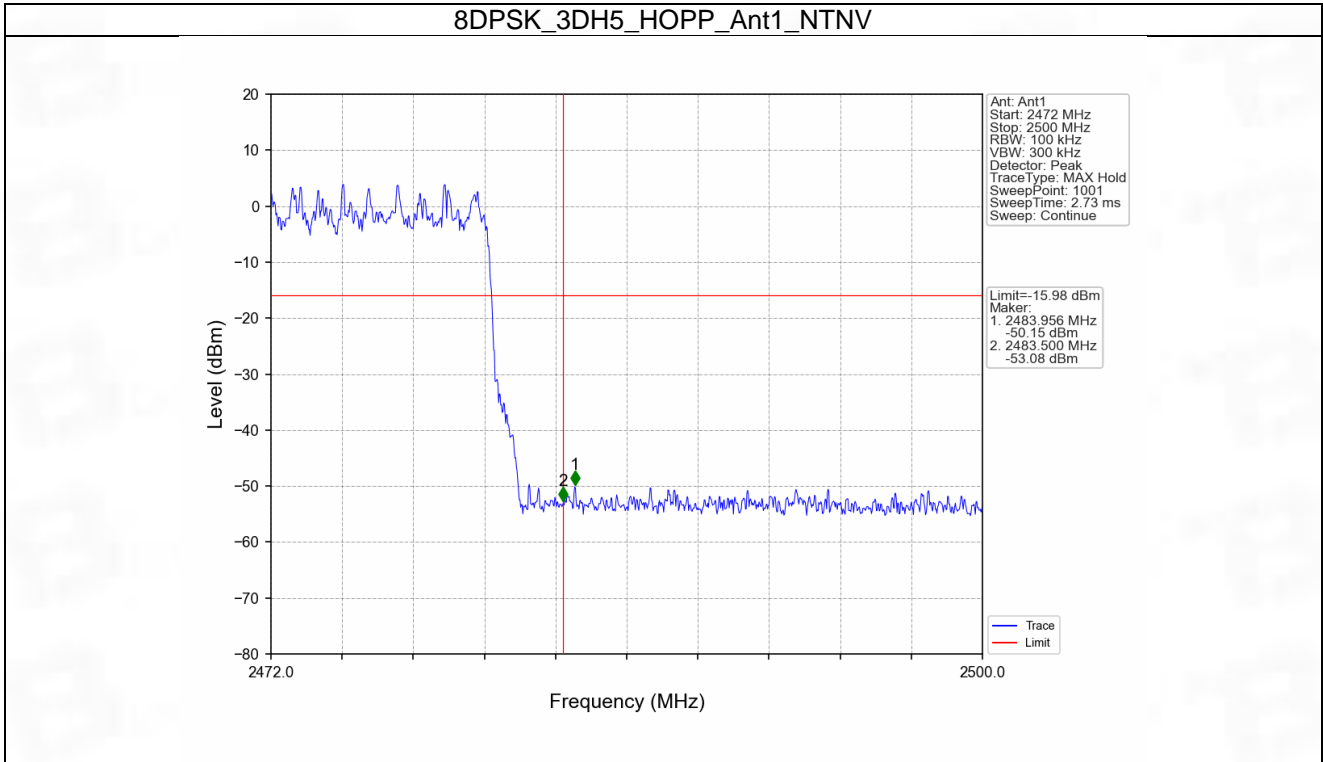












## 7. Form731

### 7.1 Form731

#### 7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0030	4.83



Test Report Number: BTF230607R00301



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**-- END OF REPORT --**