

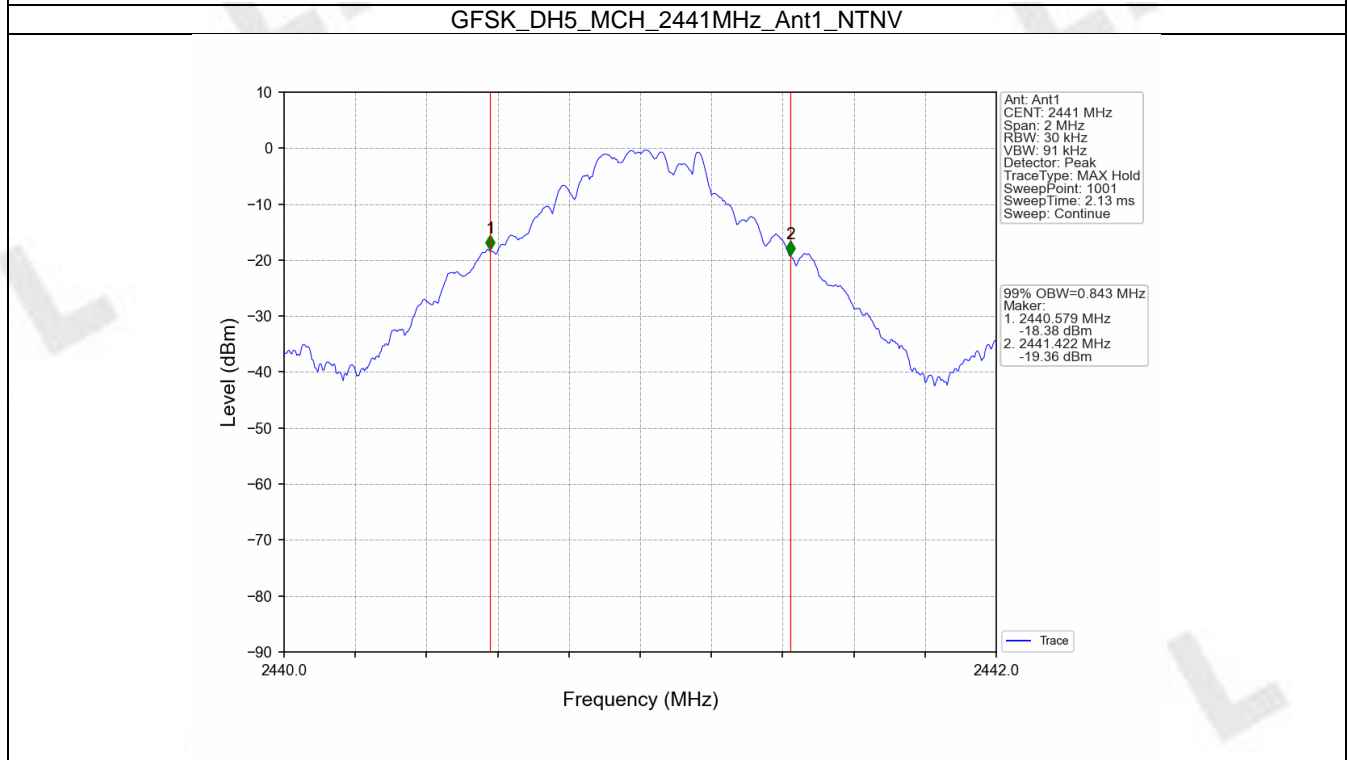
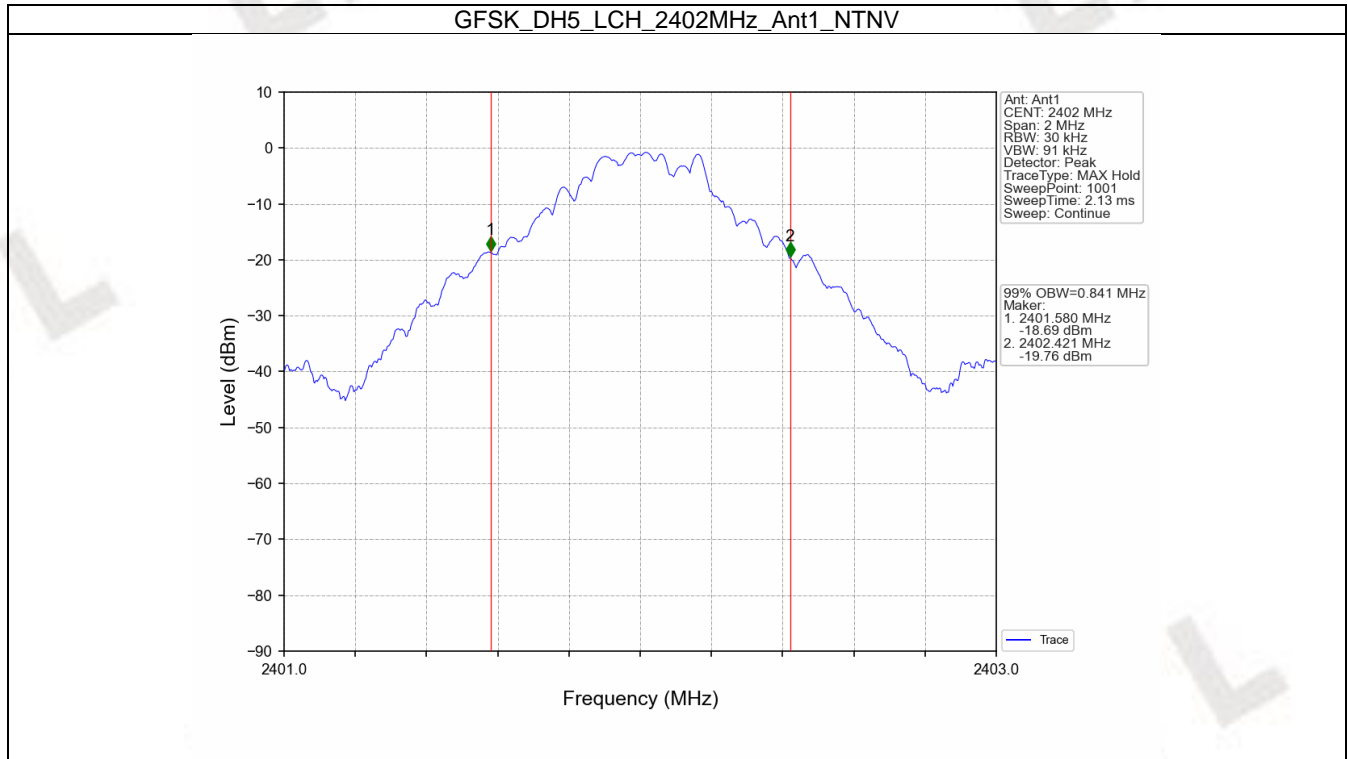
## 1. Bandwidth

## 1.1 OBW

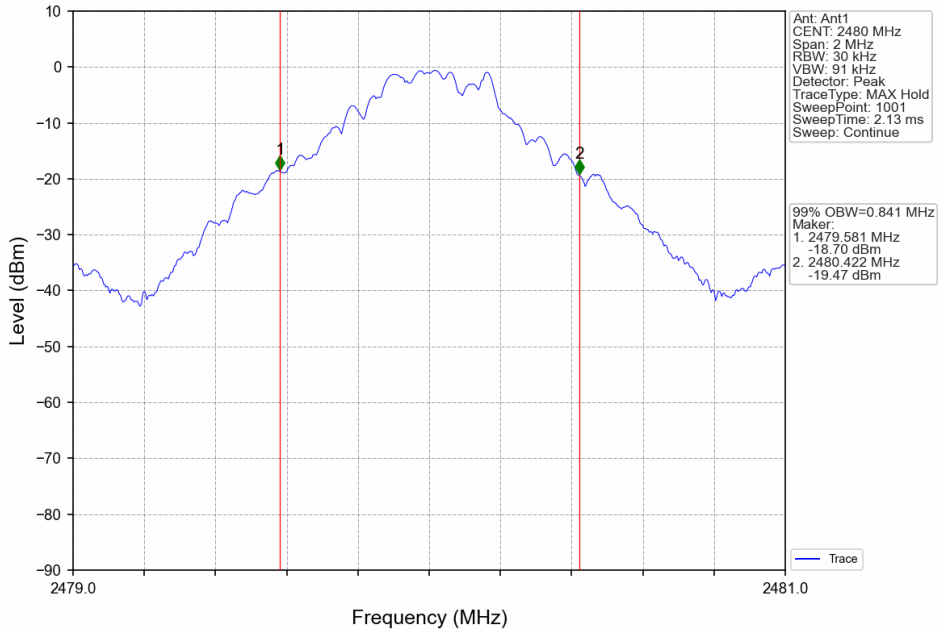
## 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.841	Pass
		2441	DH5	1	0.843	Pass
		2480	DH5	1	0.841	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.157	Pass
		2441	2DH5	1	1.155	Pass
		2480	2DH5	1	1.154	Pass
8DPSK	SISO	2402	3DH5	1	1.170	Pass
		2441	3DH5	1	1.168	Pass
		2480	3DH5	1	1.172	Pass

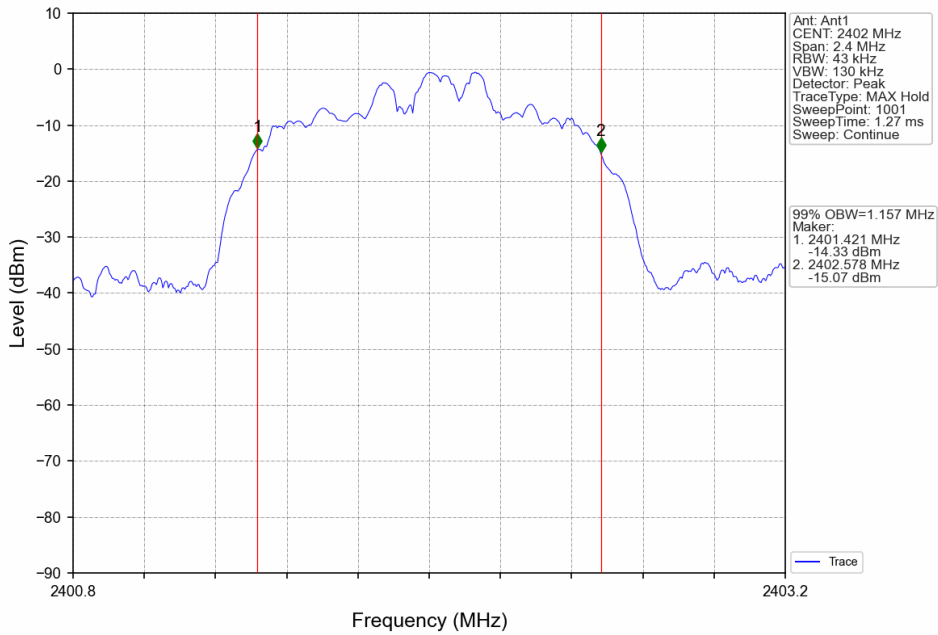
1.1.2 Test Graph



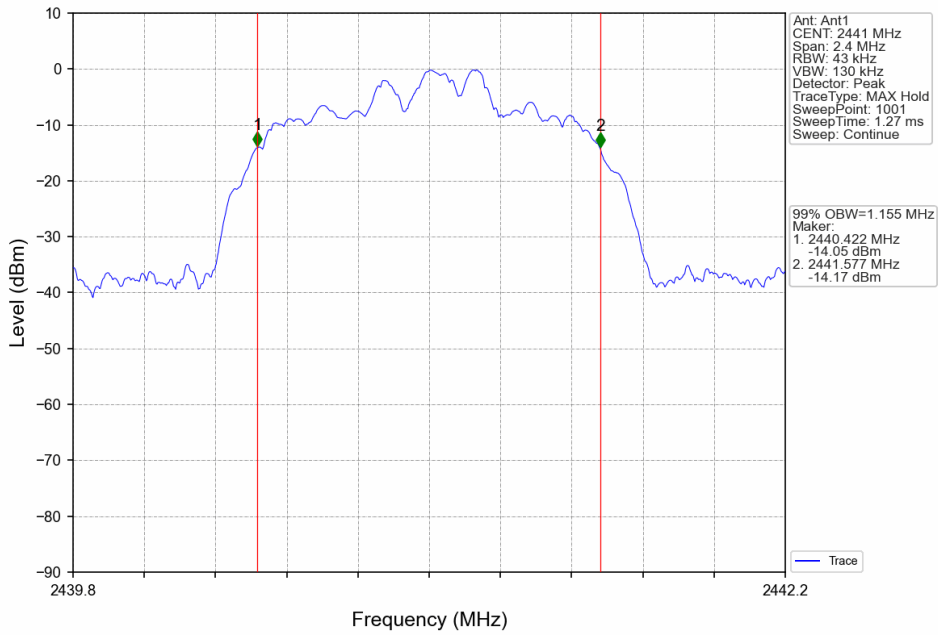
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



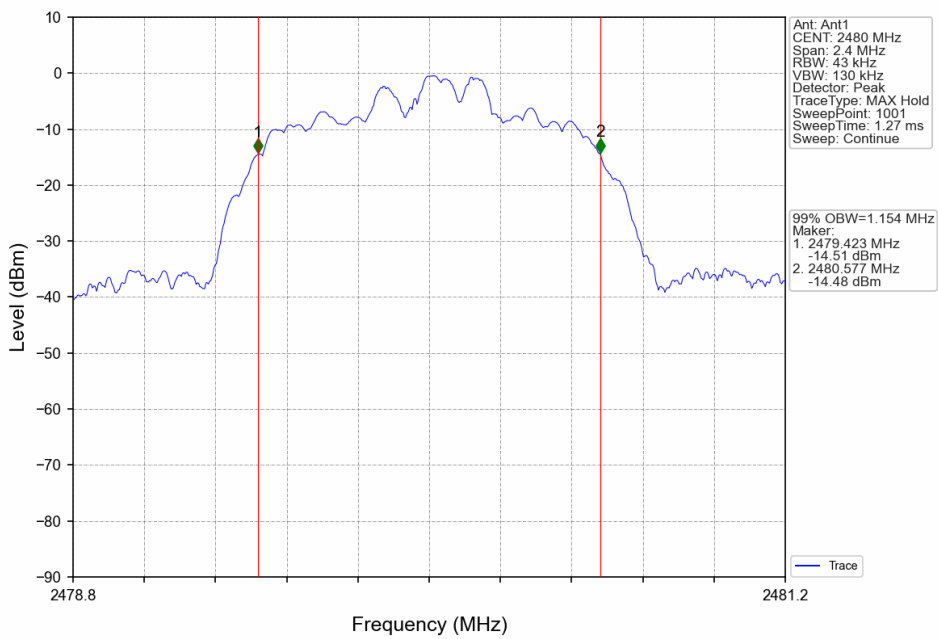
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



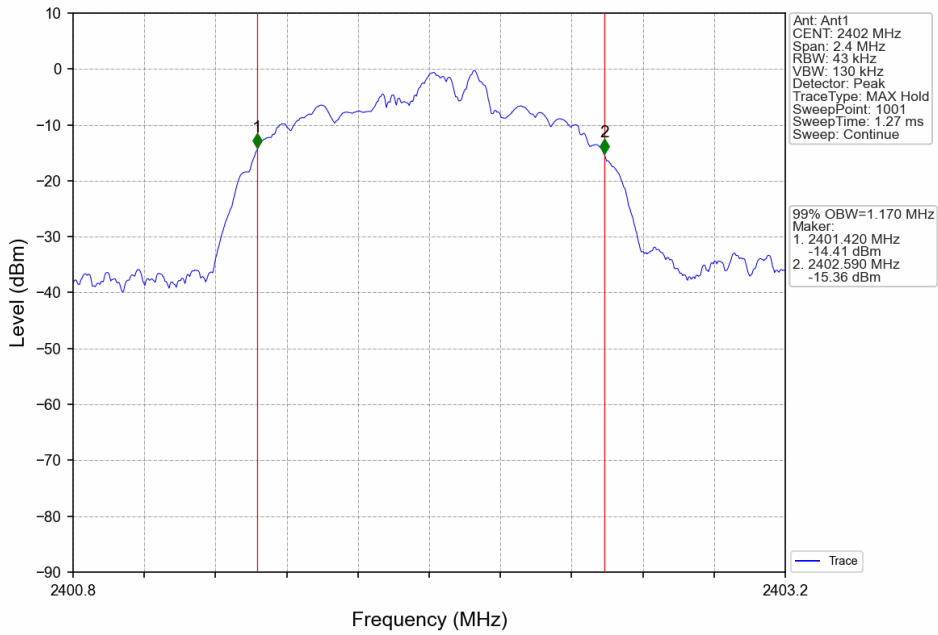
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



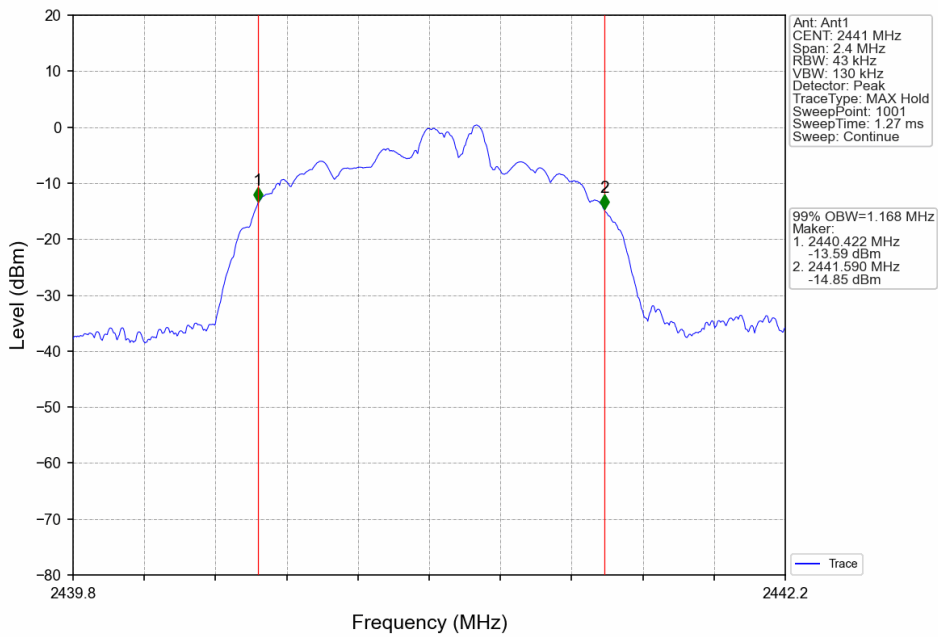
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

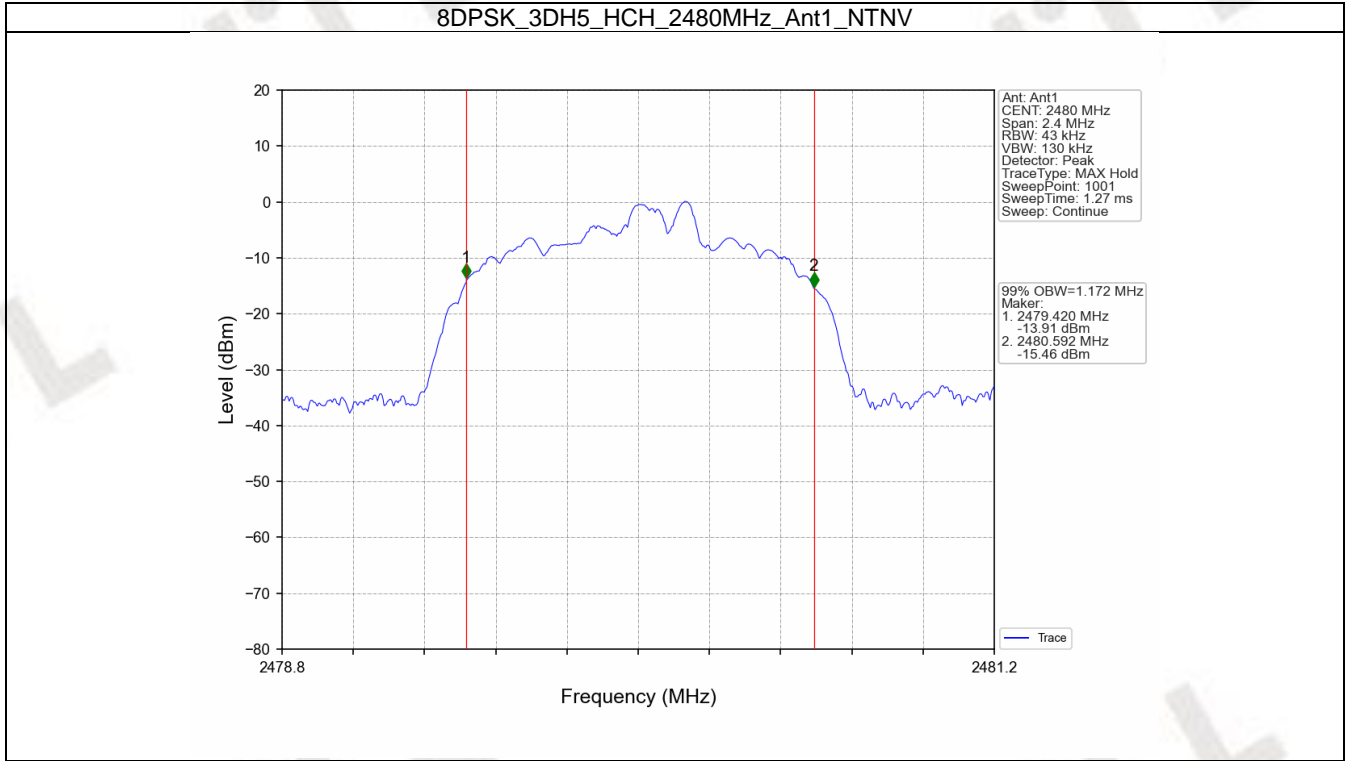


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



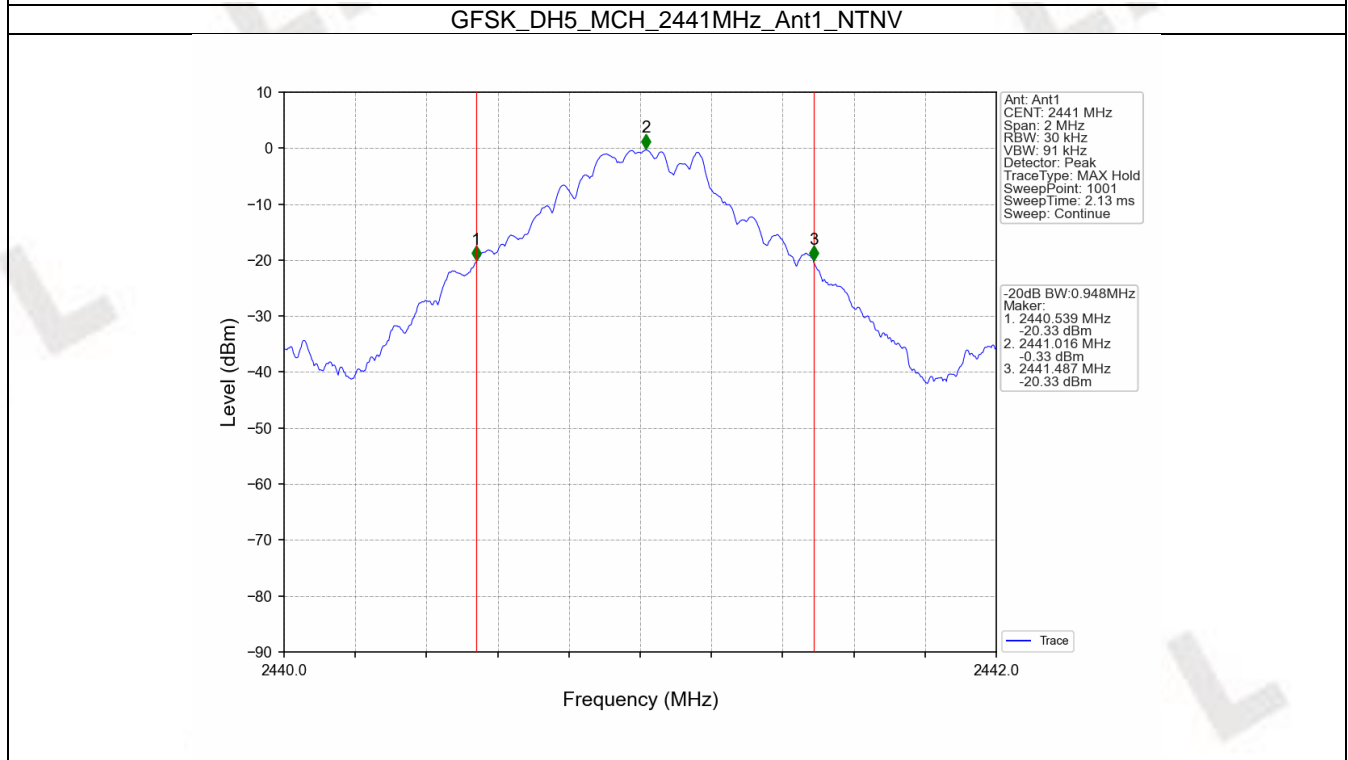
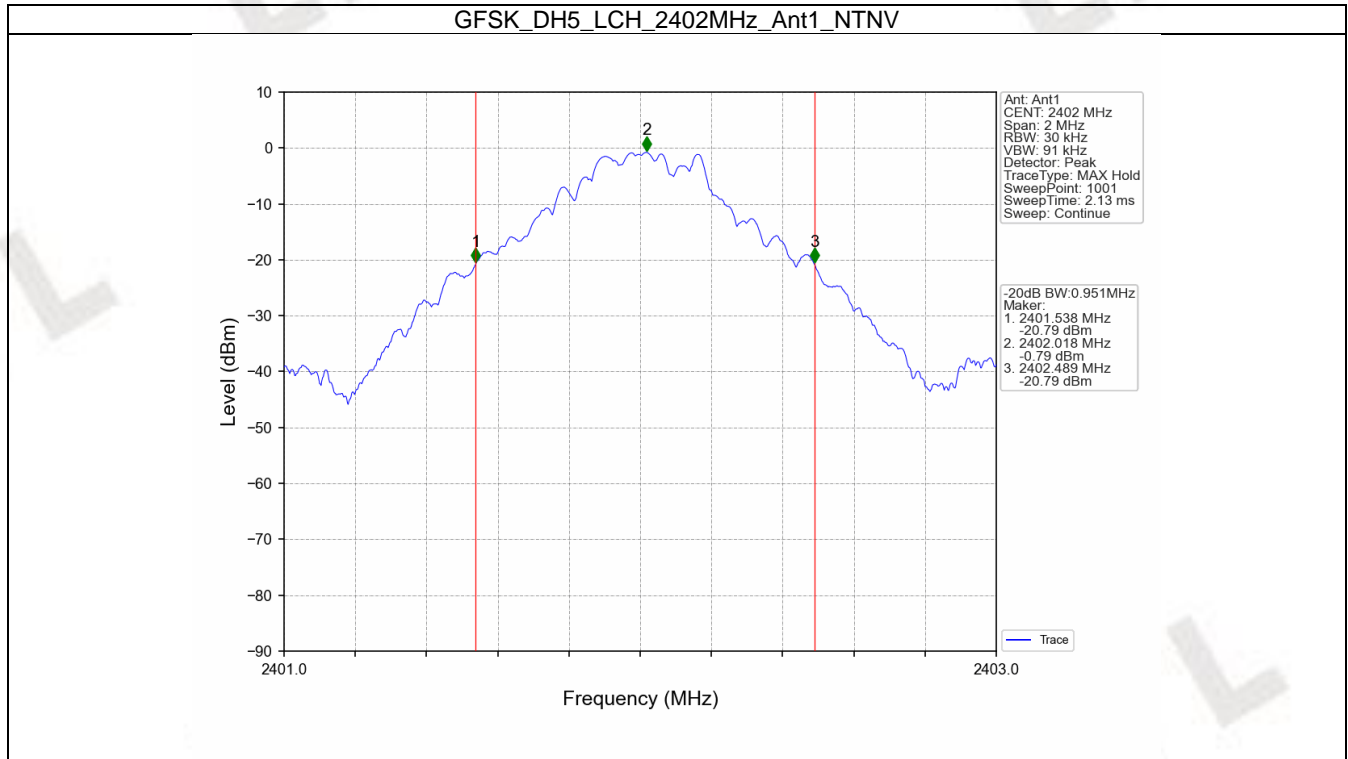


## 1.2 20dB BW

## 1.2.1 Test Result

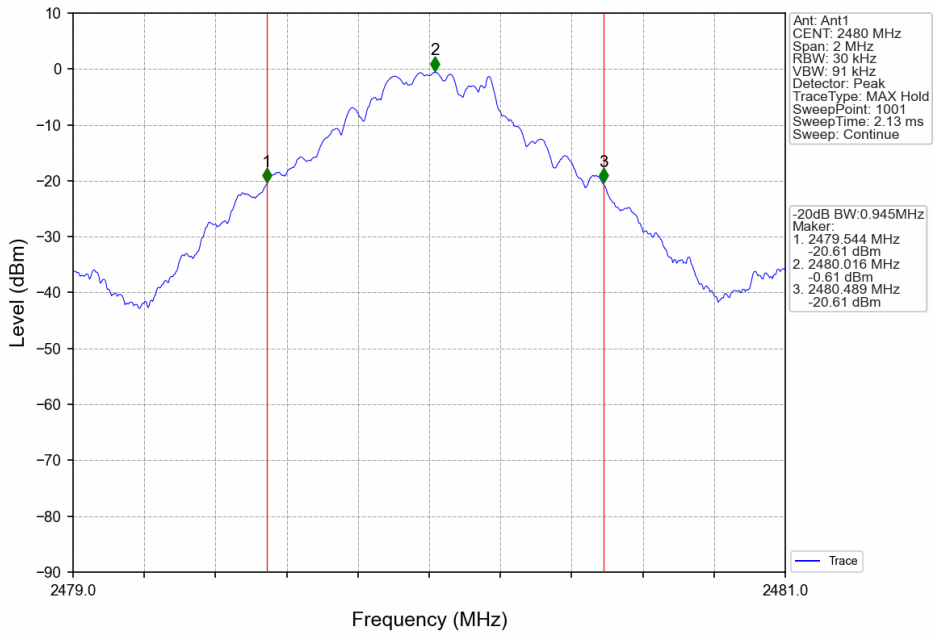
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.951	Pass
		2441	DH5	1	0.948	Pass
		2480	DH5	1	0.945	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.289	Pass
		2441	2DH5	1	1.285	Pass
		2480	2DH5	1	1.284	Pass
8DPSK	SISO	2402	3DH5	1	1.293	Pass
		2441	3DH5	1	1.297	Pass
		2480	3DH5	1	1.298	Pass

1.2.2 Test Graph

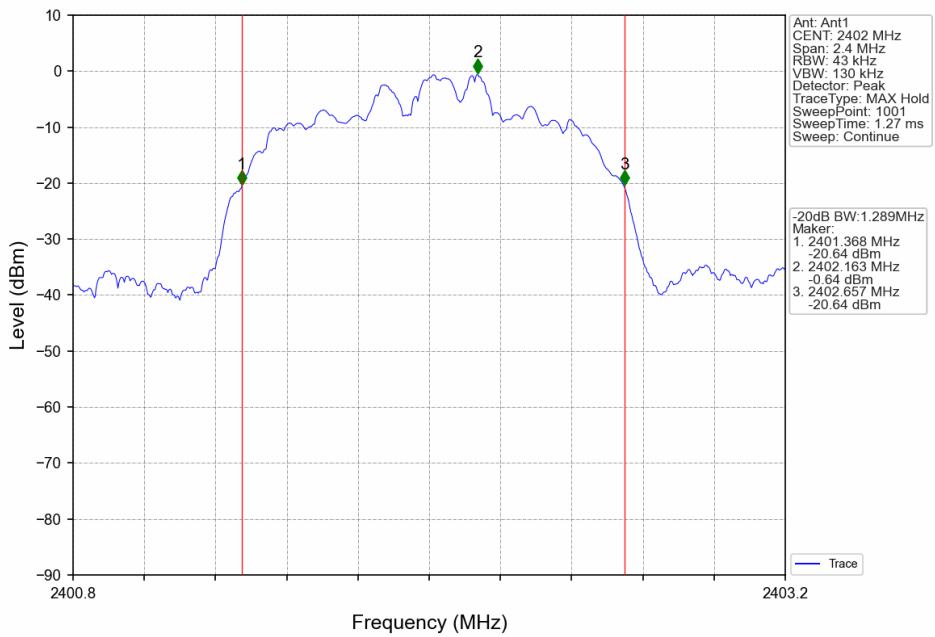




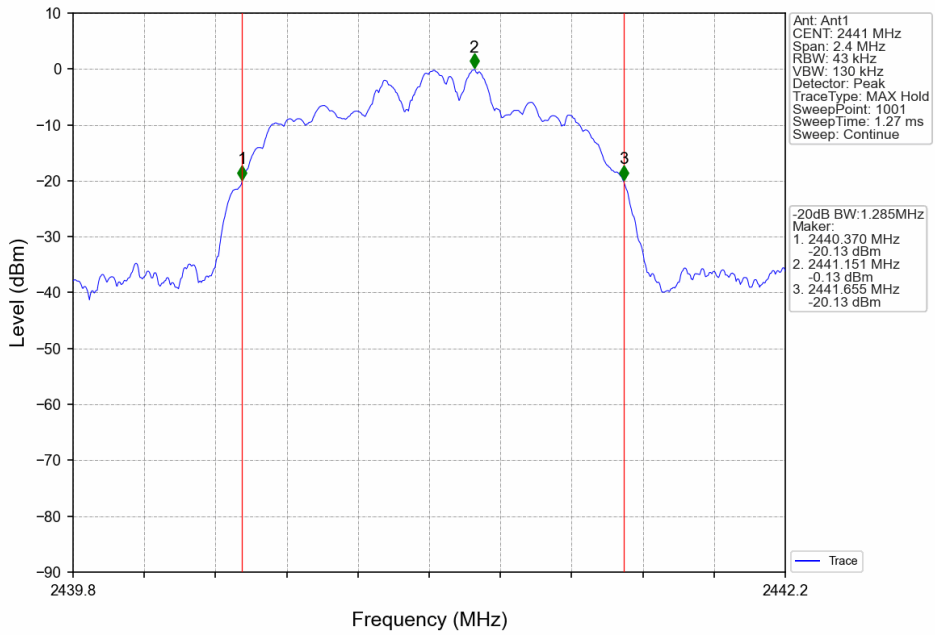
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



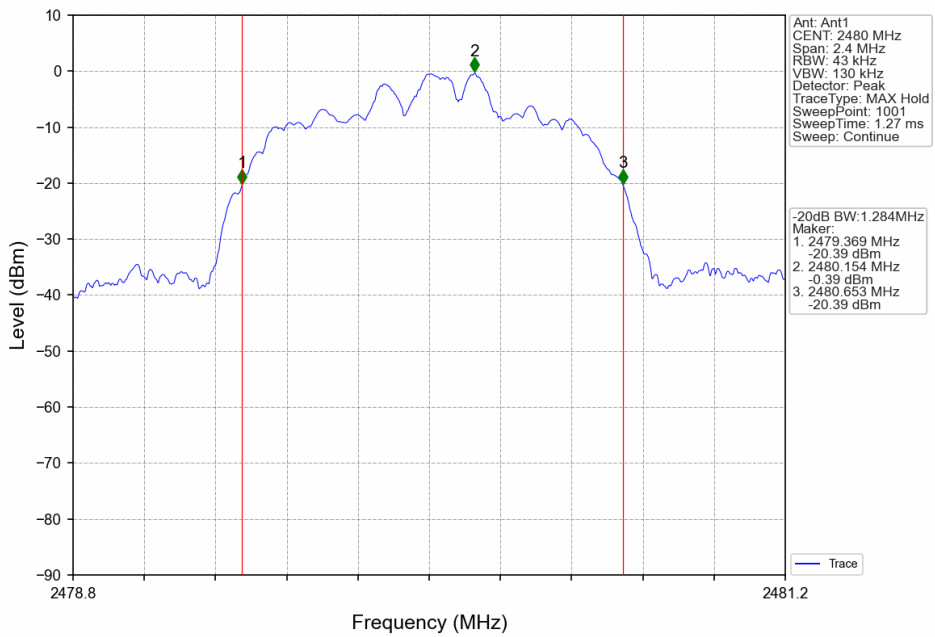
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



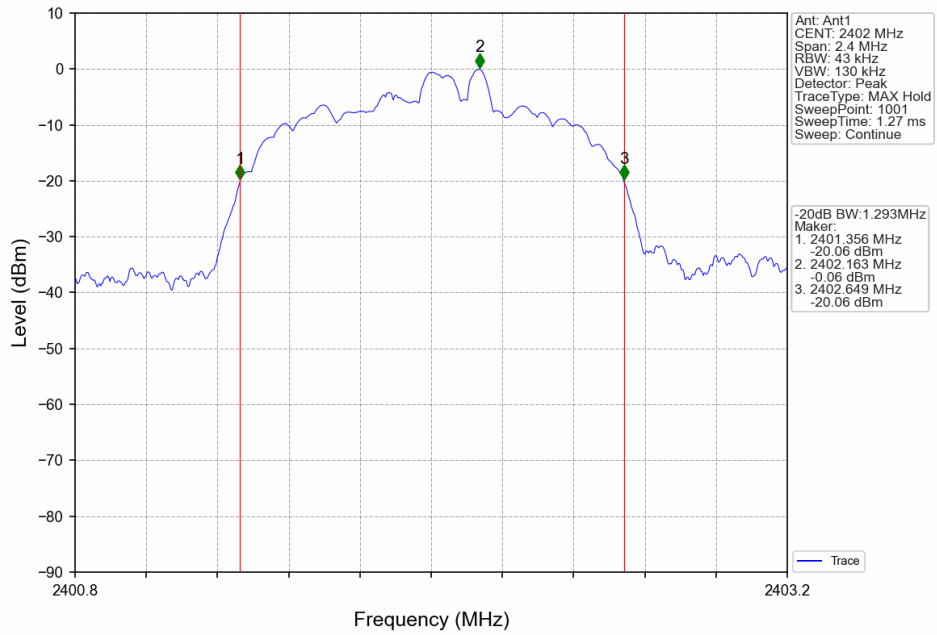
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



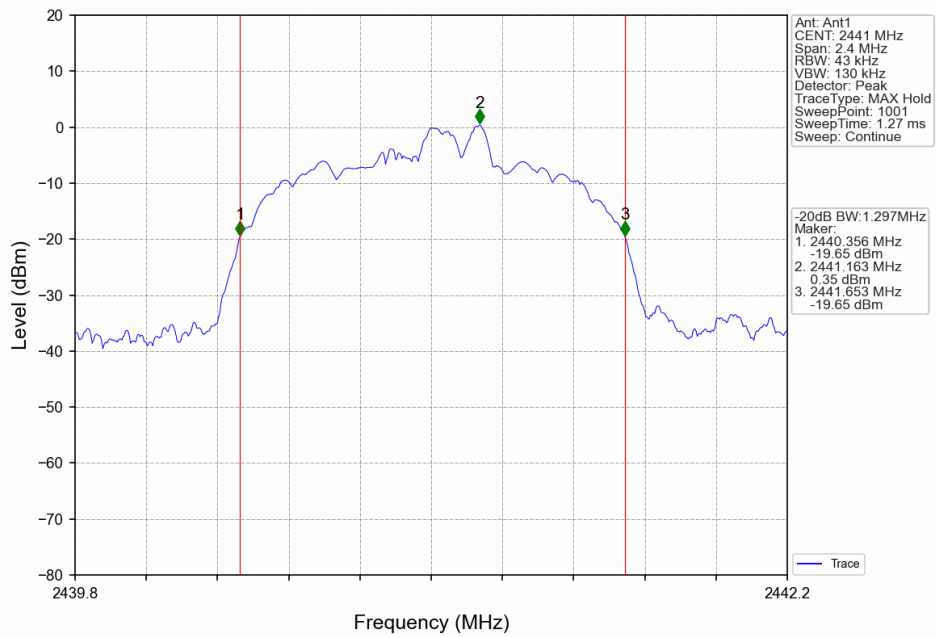
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

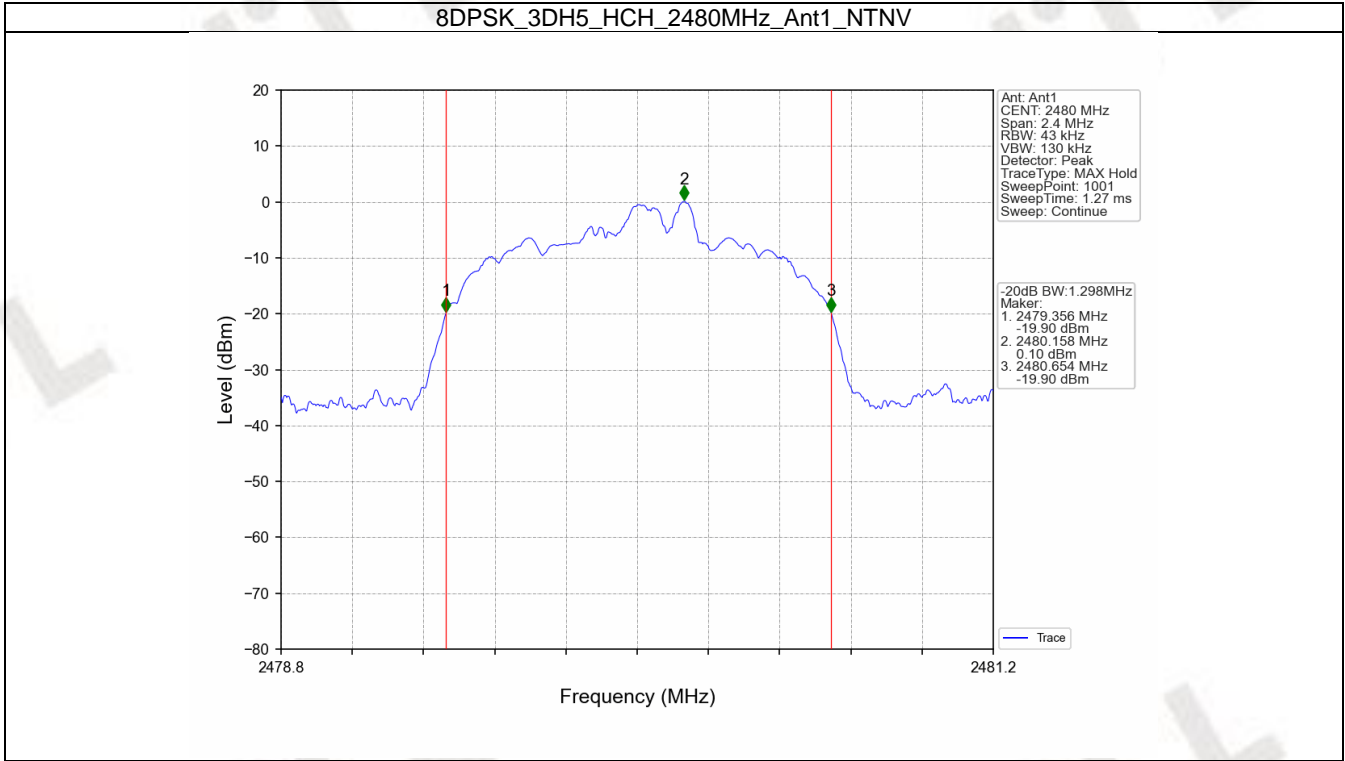


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





## 2. Maximum Conducted Output Power

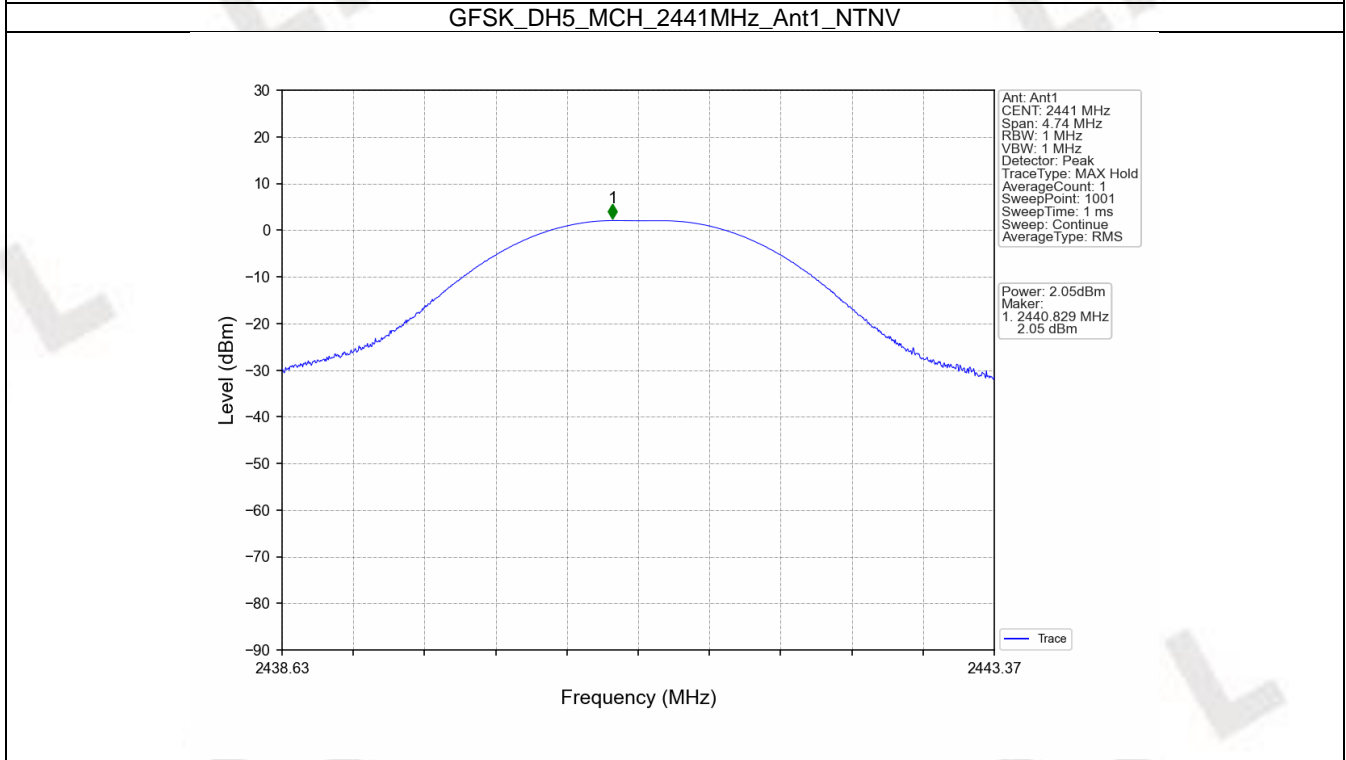
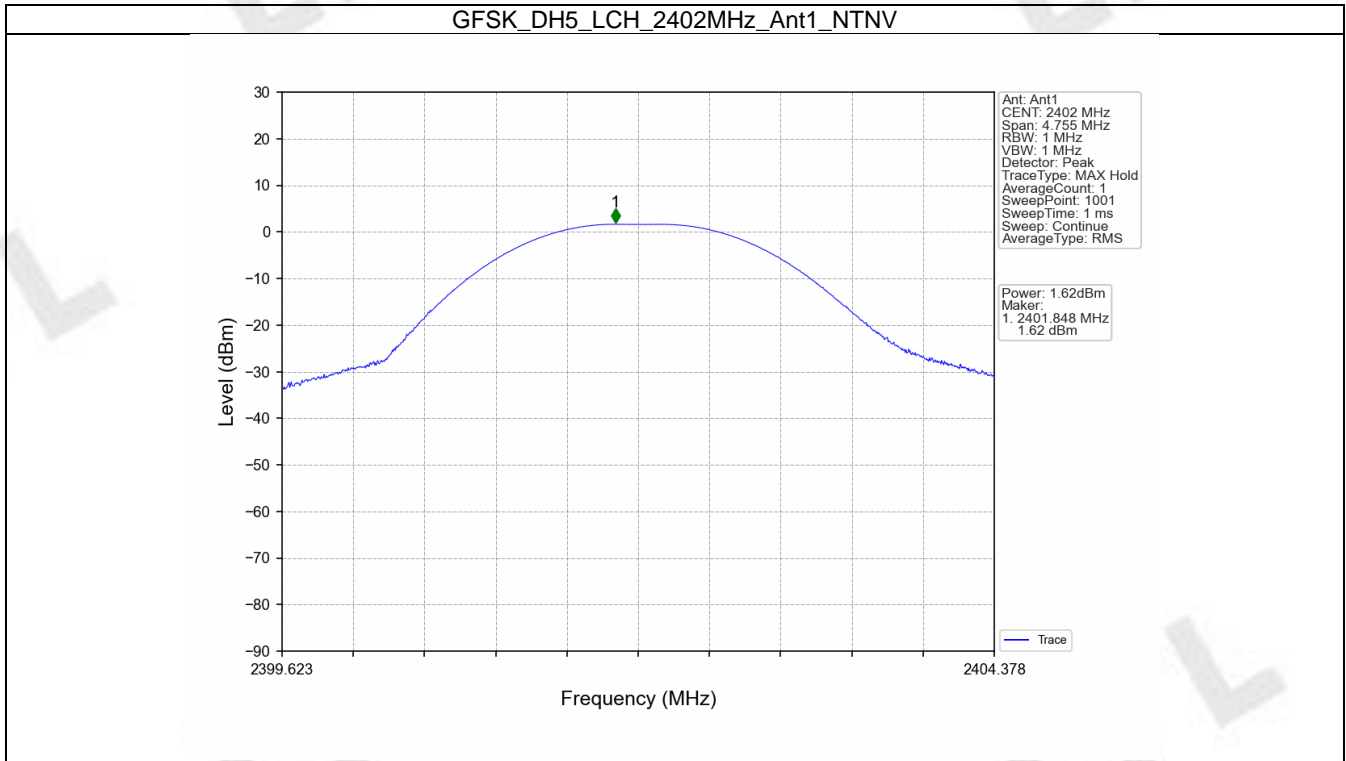
### 2.1 Power

#### 2.1.1 Test Result

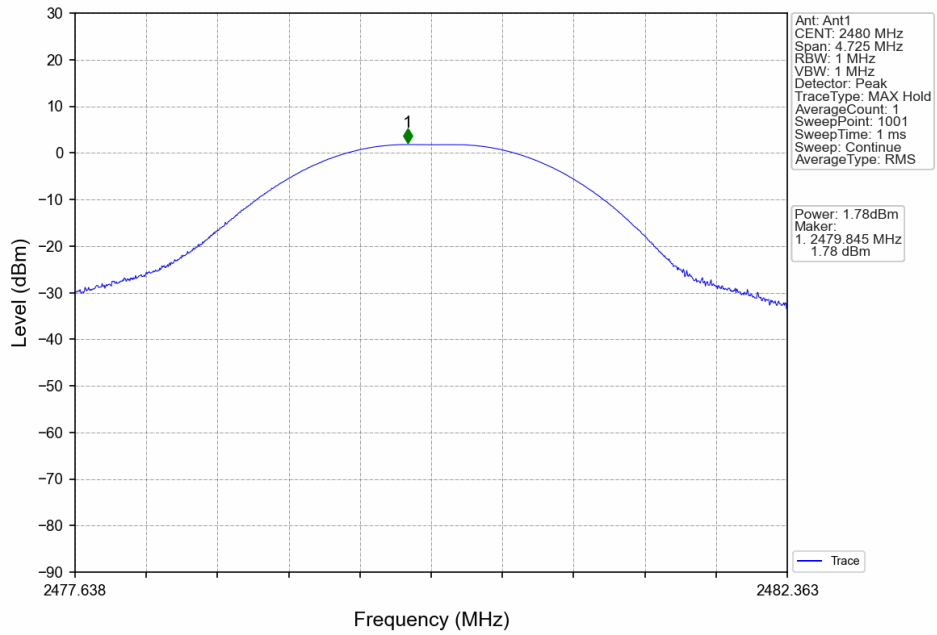
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.62	<=30	Pass
		2441	DH5	2.05	<=30	Pass
		2480	DH5	1.78	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.63	<=20.97	Pass
		2441	2DH5	2.05	<=20.97	Pass
		2480	2DH5	1.79	<=20.97	Pass
8DPSK	SISO	2402	3DH5	1.75	<=20.97	Pass
		2441	3DH5	2.17	<=20.97	Pass
		2480	3DH5	1.90	<=20.97	Pass

Note1: Antenna Gain: Ant1: 1.21dBi;

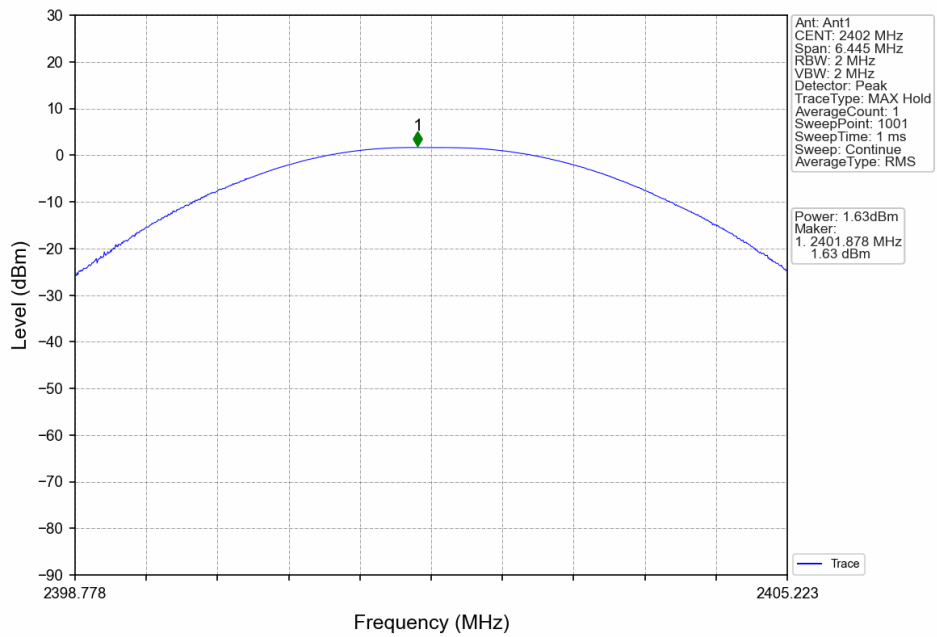
2.1.2 Test Graph



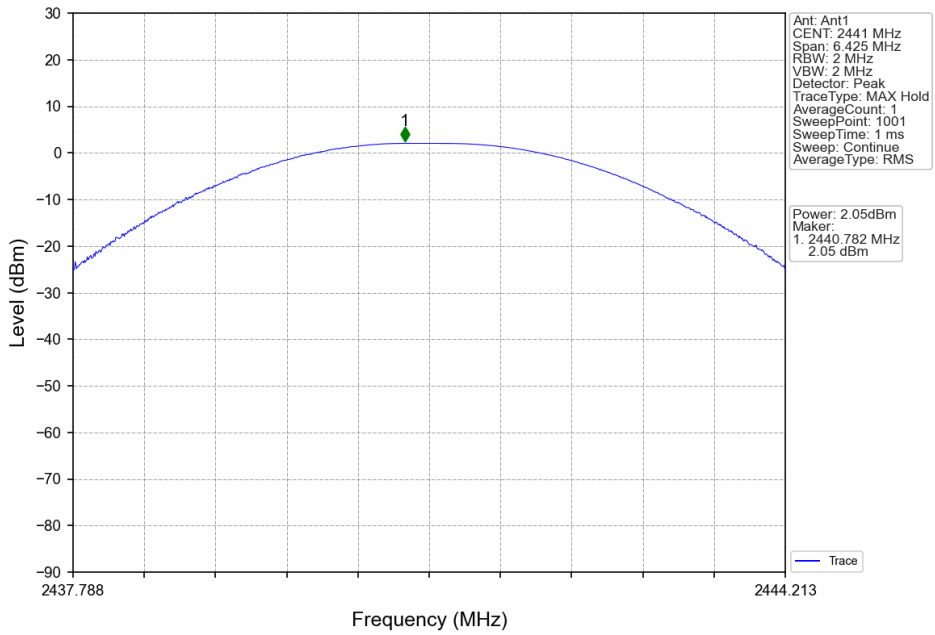
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



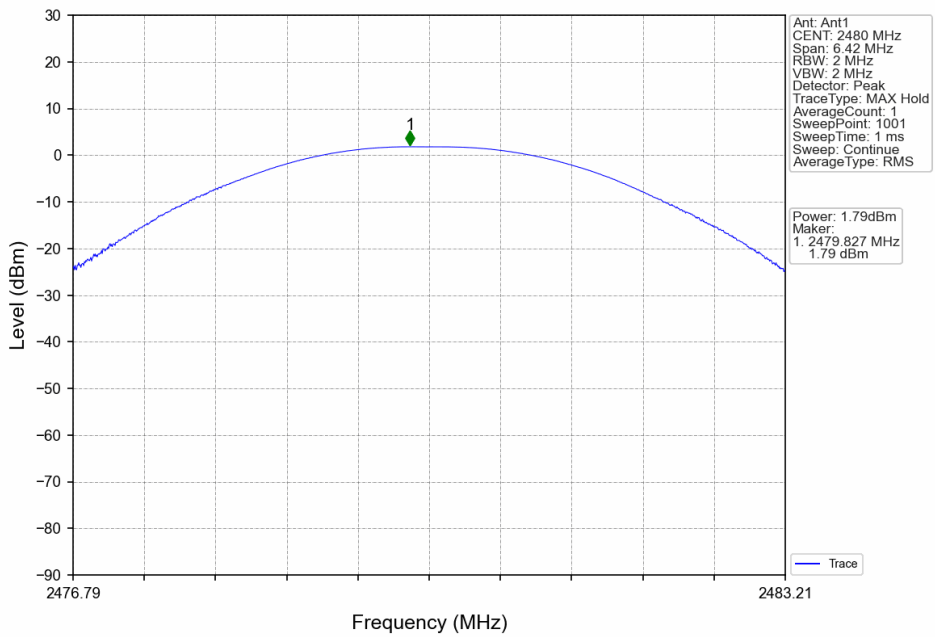
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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

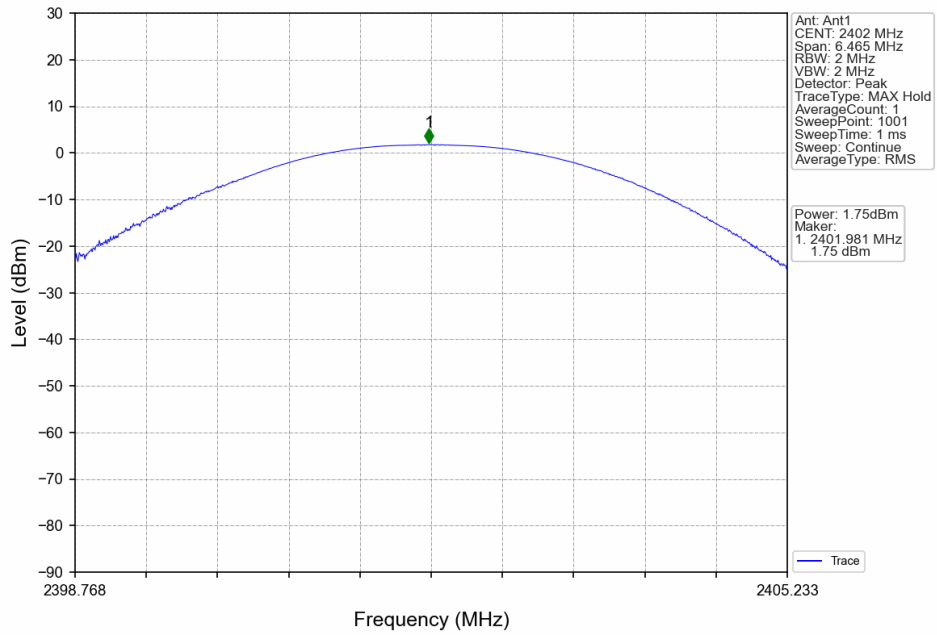


Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

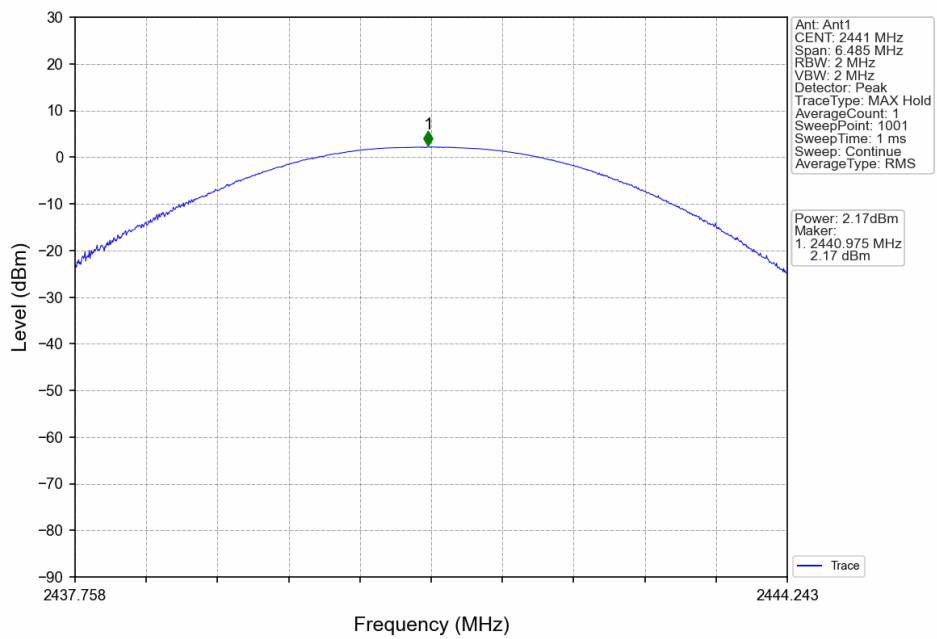


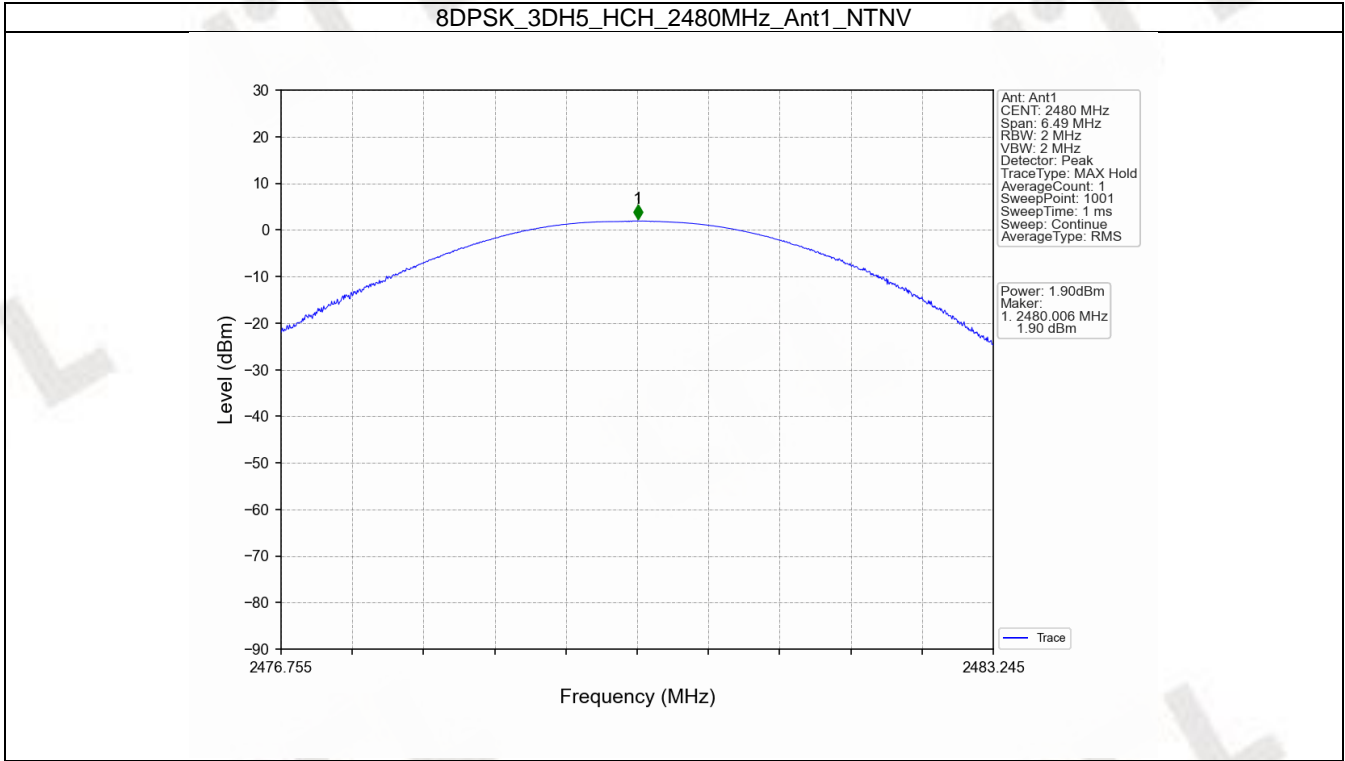


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





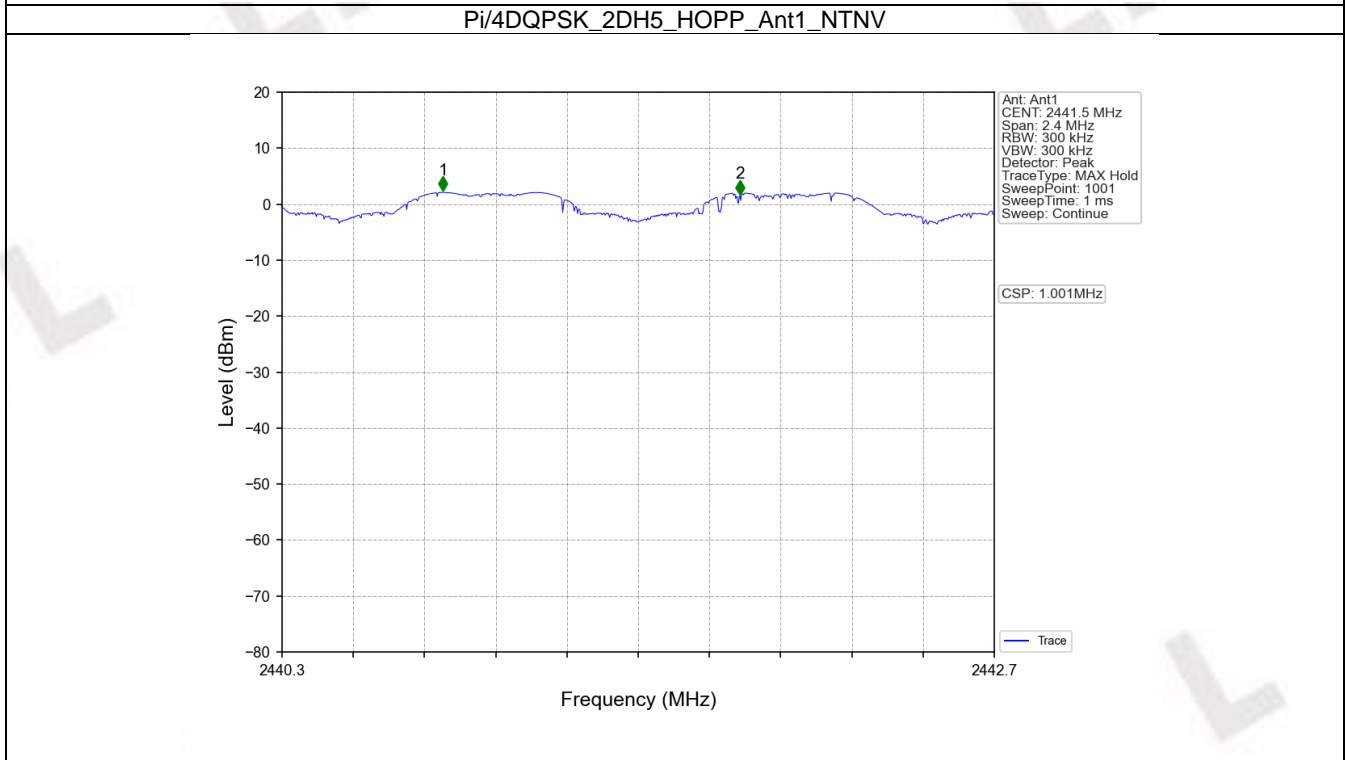
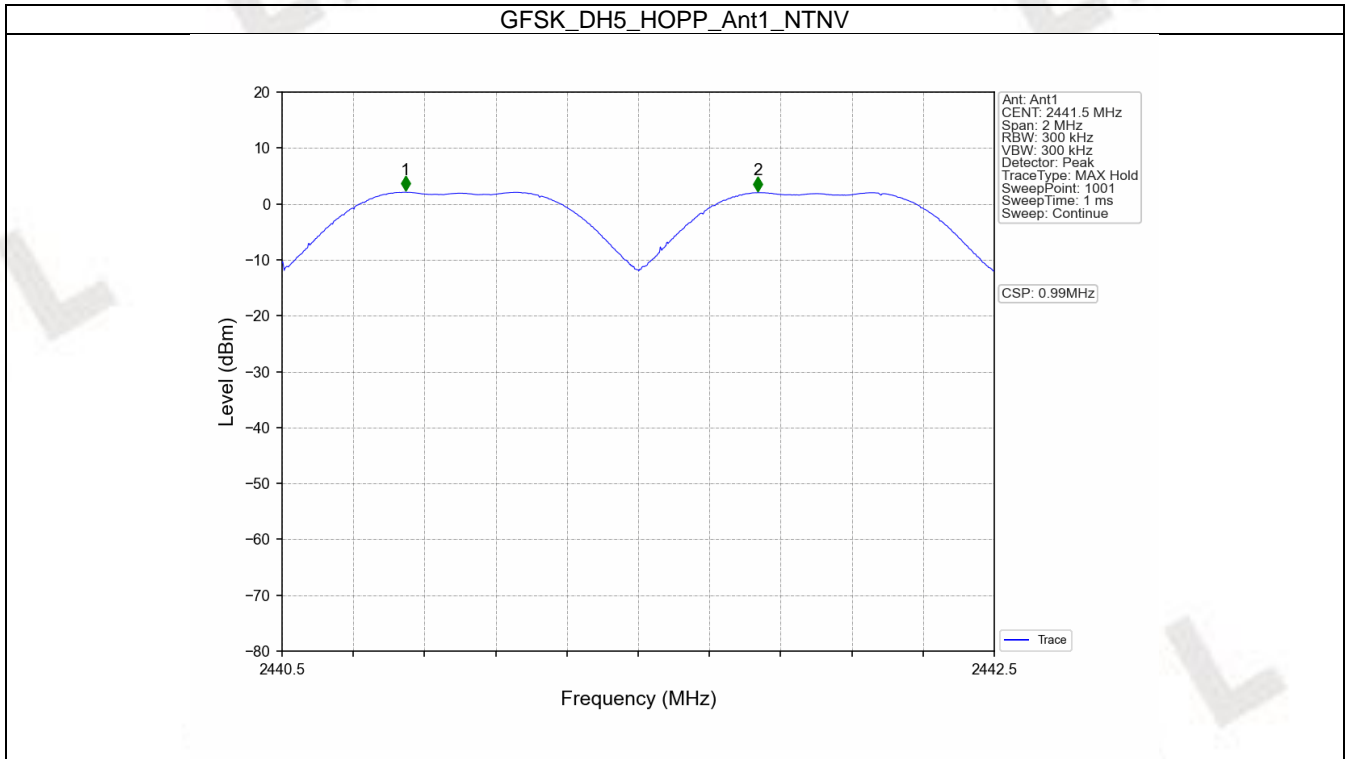
### 3. Carrier Frequency Separation

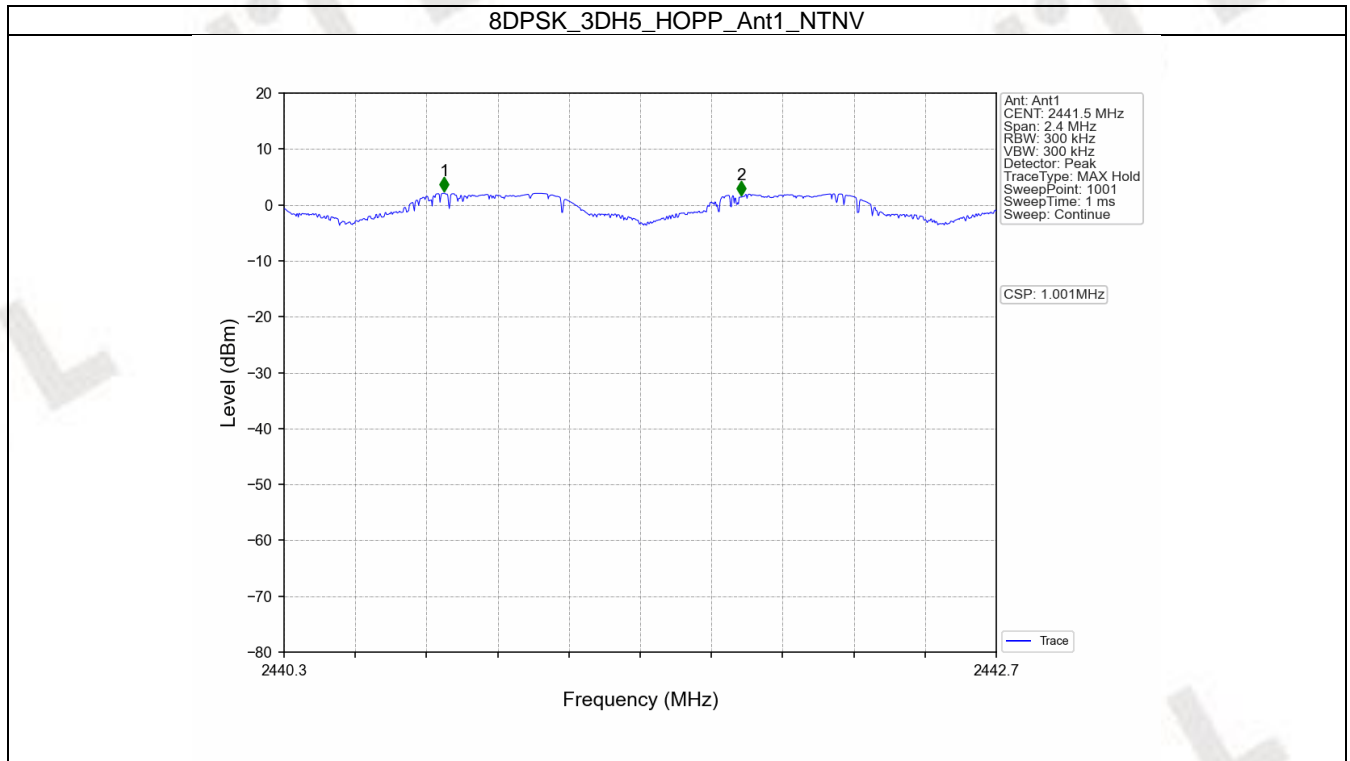
#### 3.1 Ant1

##### 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	0.990	0.951	$\geq 0.951$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.289	$\geq 0.859$	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.298	$\geq 0.865$	Pass

3.1.2 Test Graph





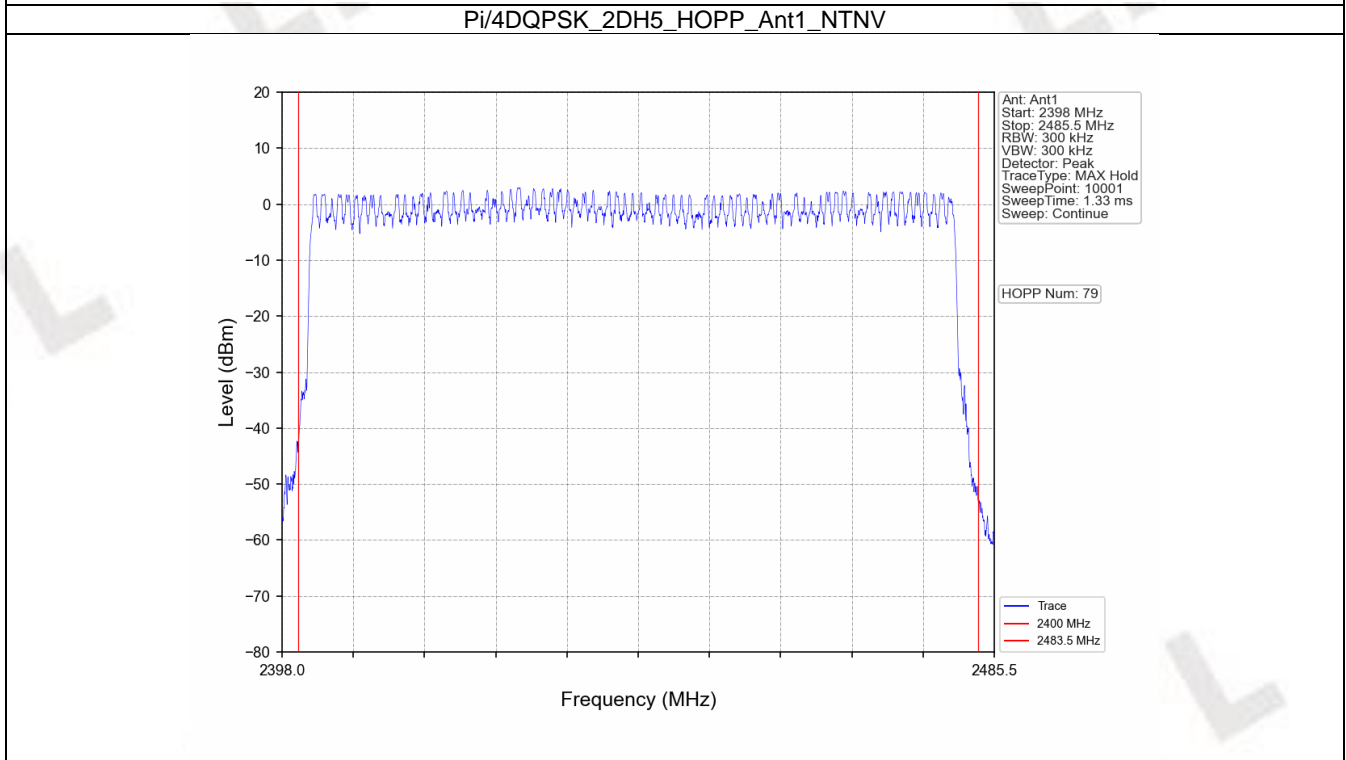
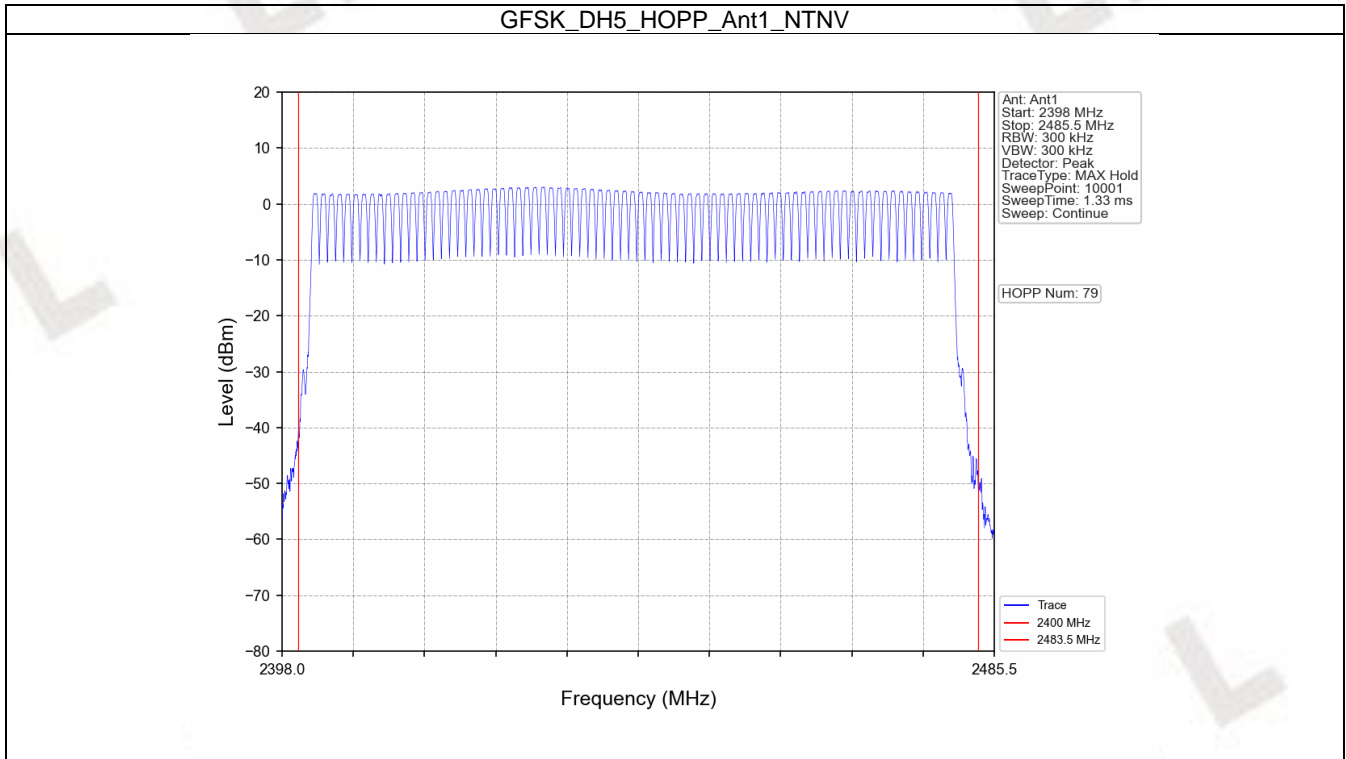
## 4. Number of Hopping Frequencies

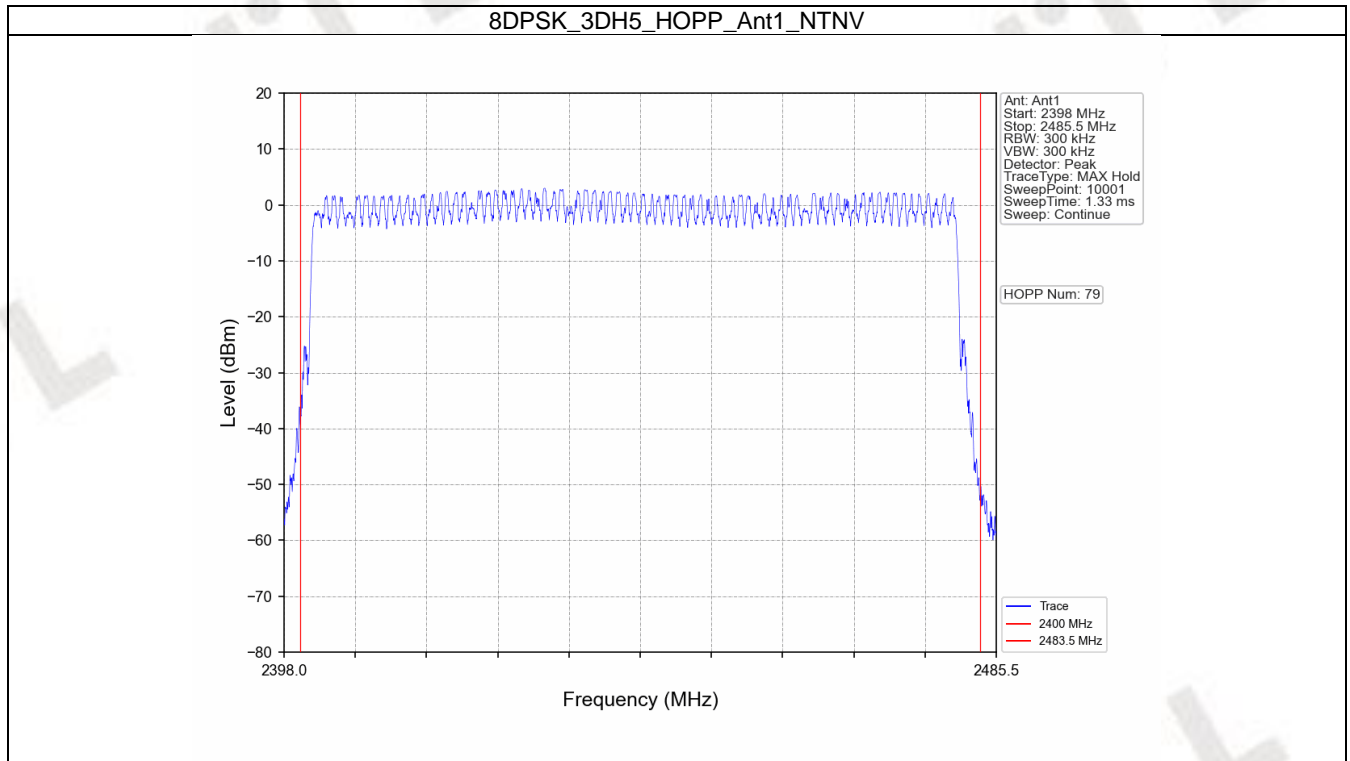
### 4.1 HoppNum

#### 4.1.1 Test Result

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

4.1.2 Test Graph







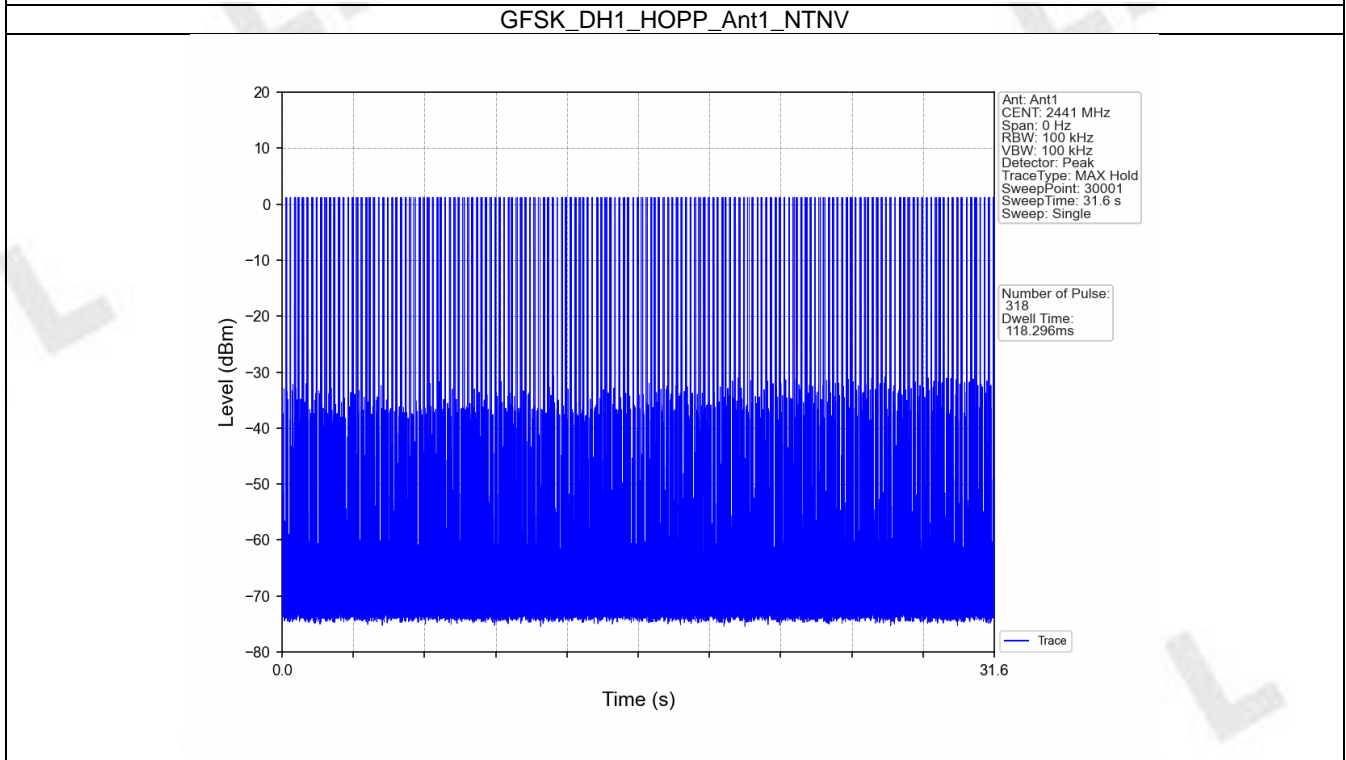
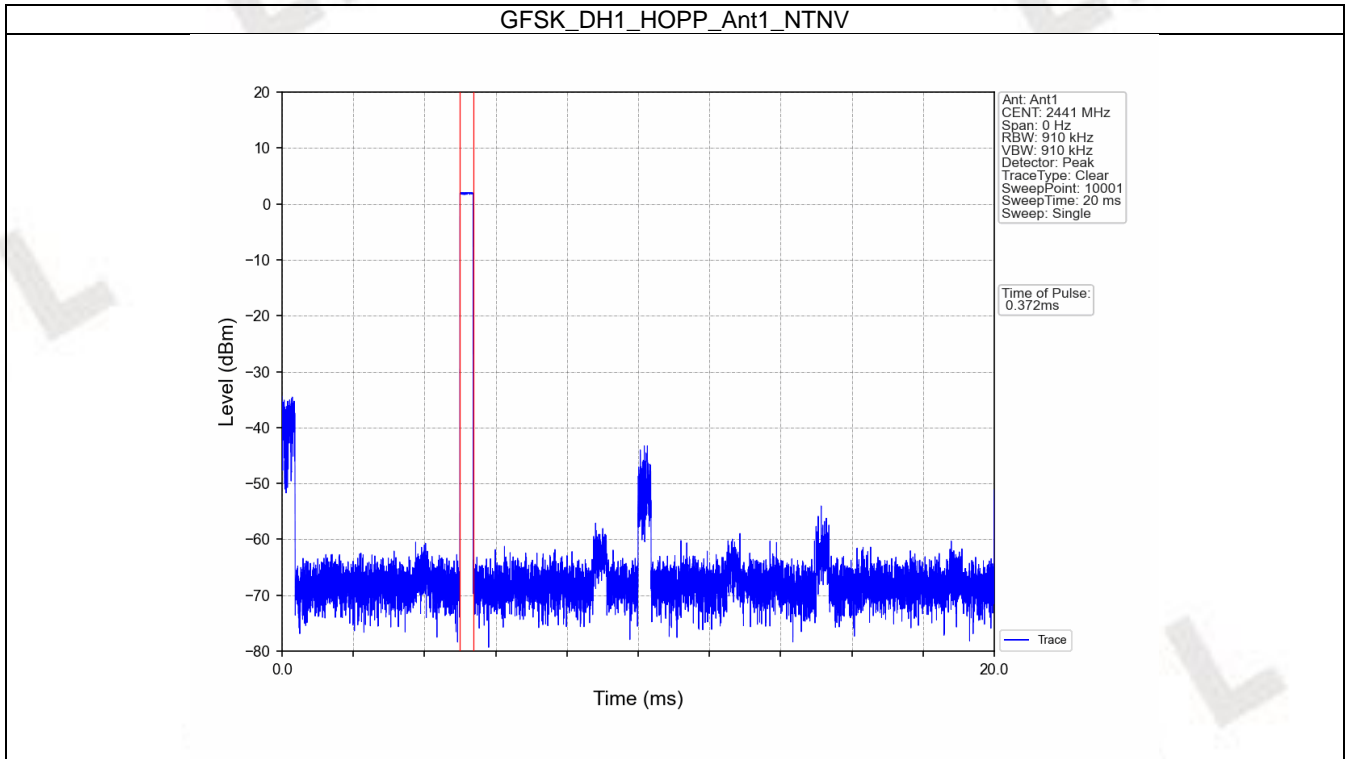
## 5. Time of Occupancy (Dwell Time)

### 5.1 Ant1

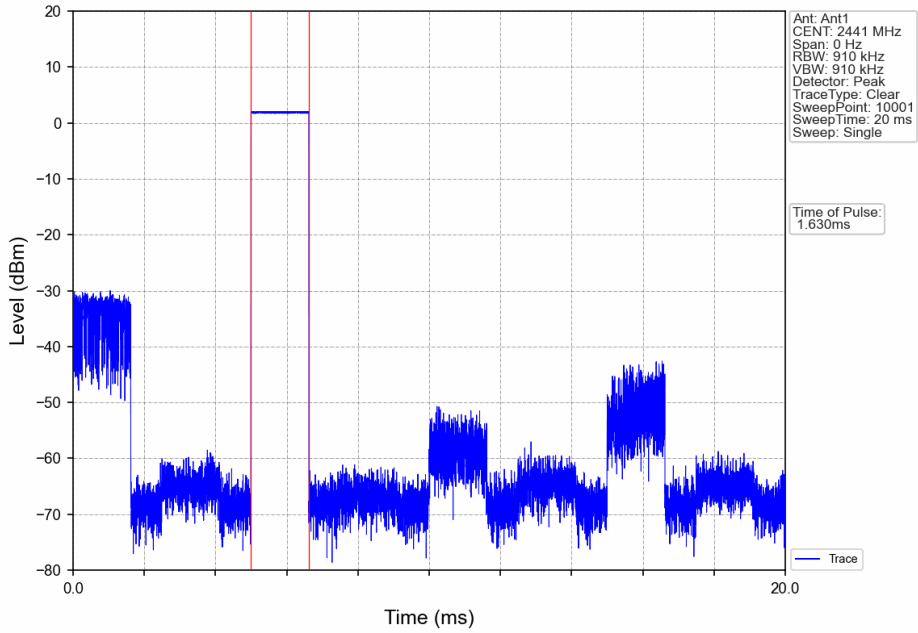
#### 5.1.1 Test Result

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	0.372	31.600	318	118.296	<=400	Pass
			DH3	1.630	31.600	161	262.430	<=400	Pass
			DH5	2.878	31.600	107	307.946	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	1.636	31.600	164	268.304	<=400	Pass
			2DH5	2.884	31.600	120	346.080	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.382	31.600	320	122.240	<=400	Pass
			3DH3	1.634	31.600	161	263.074	<=400	Pass
			3DH5	2.886	31.600	105	303.030	<=400	Pass

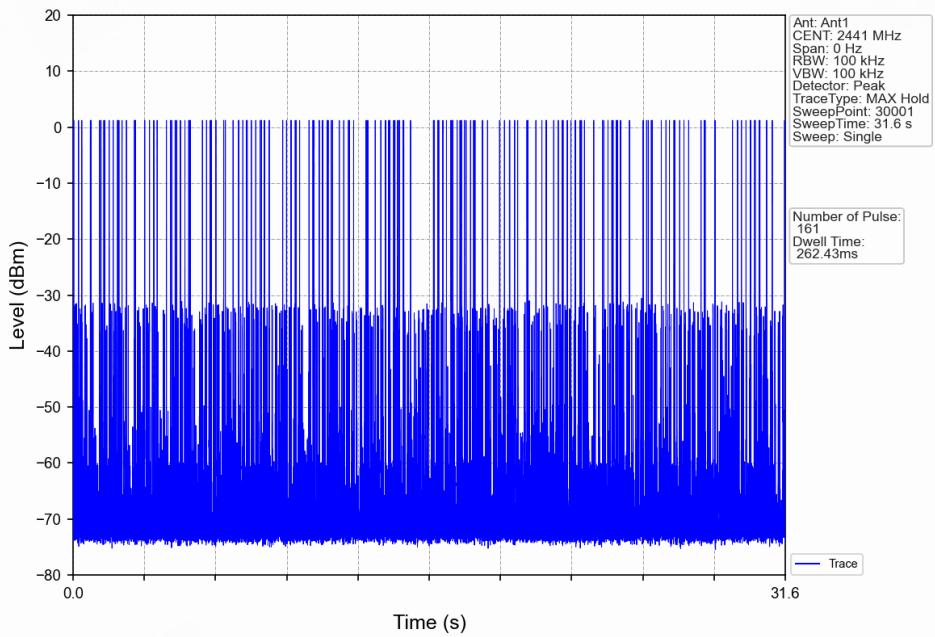
5.1.2 Test Graph



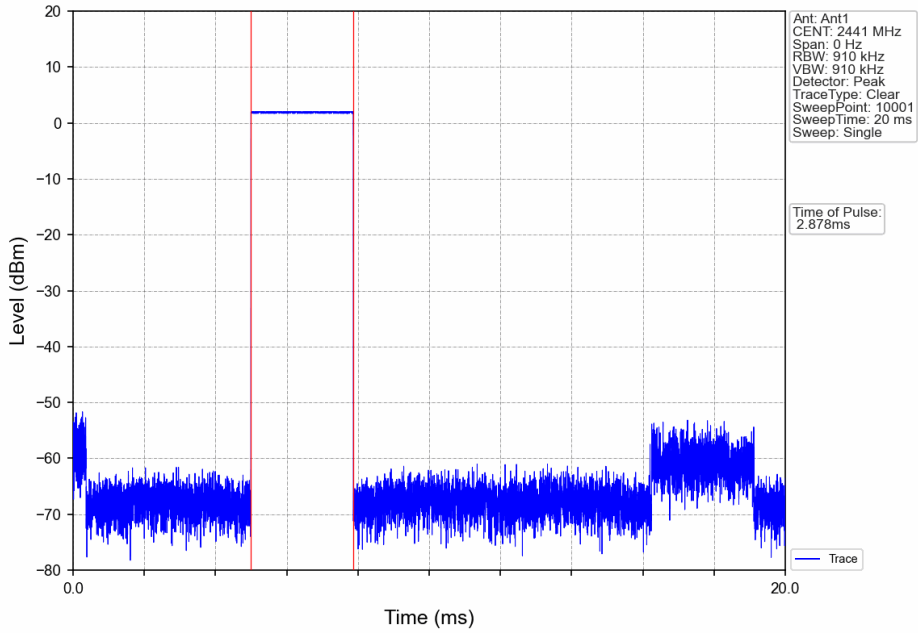
GFSK\_DH3\_HOPP\_Ant1\_NTNV



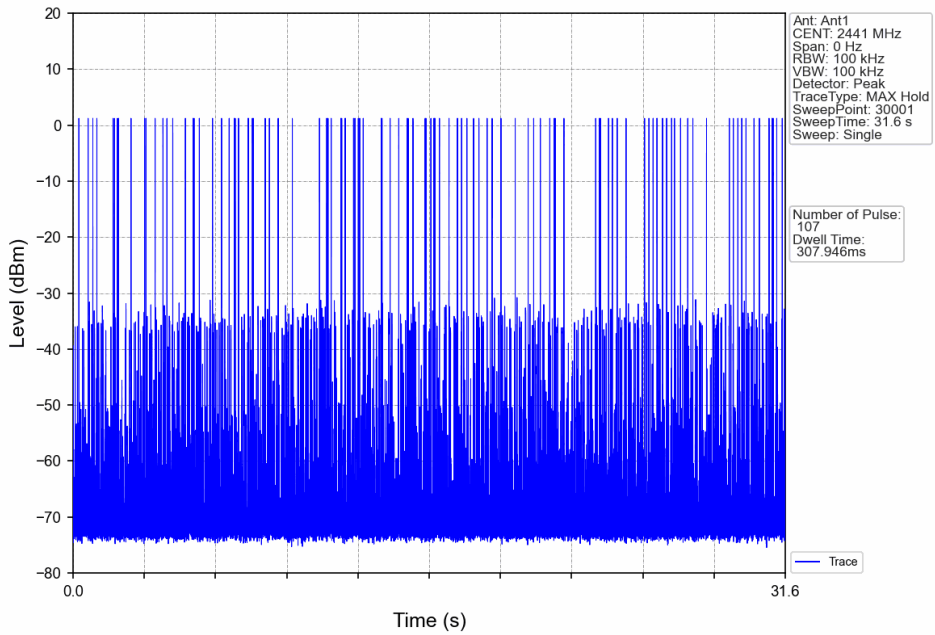
GFSK\_DH3\_HOPP\_Ant1\_NTNV



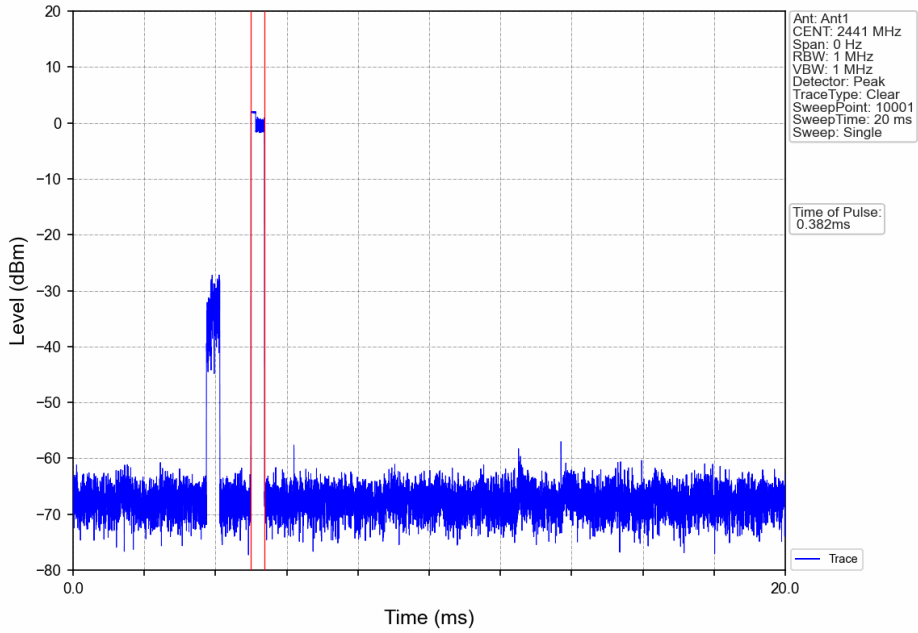
GFSK\_DH5\_HOPP\_Ant1\_NTNV



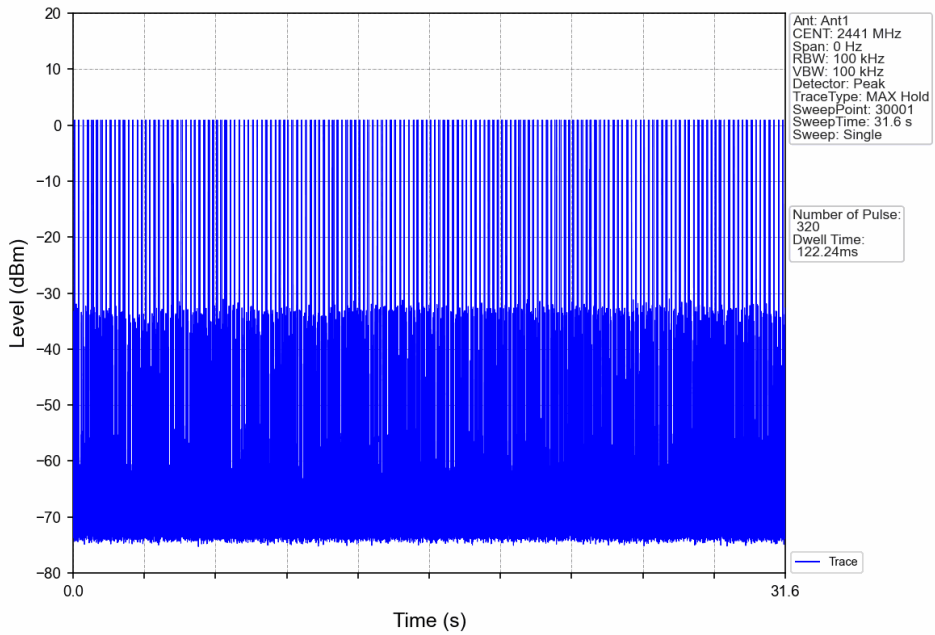
GFSK\_DH5\_HOPP\_Ant1\_NTNV



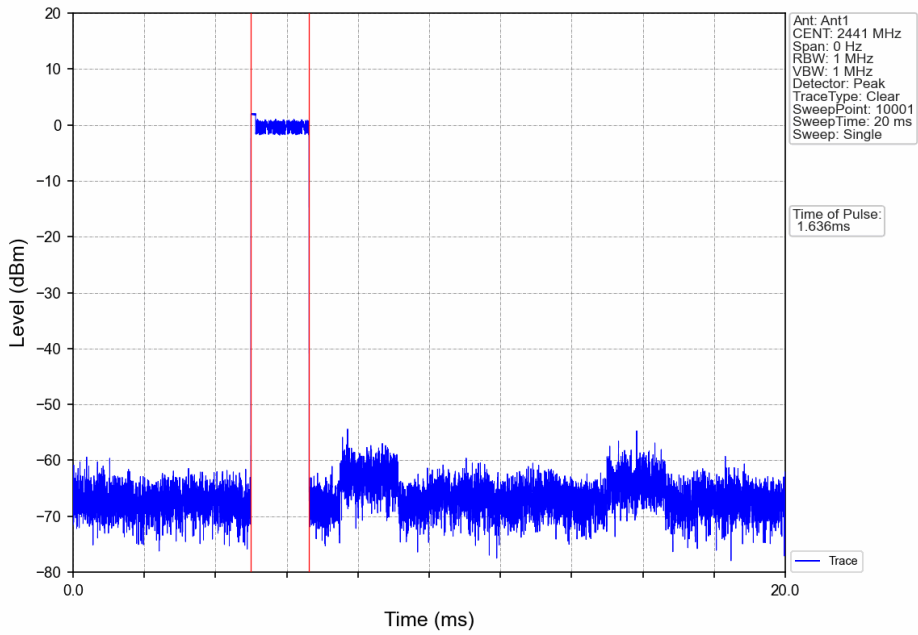
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



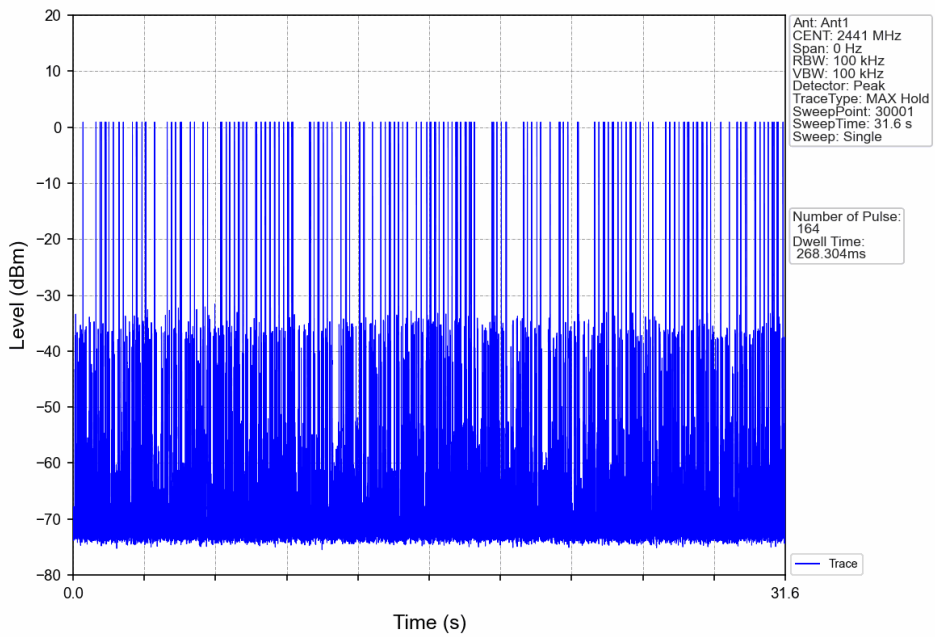
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



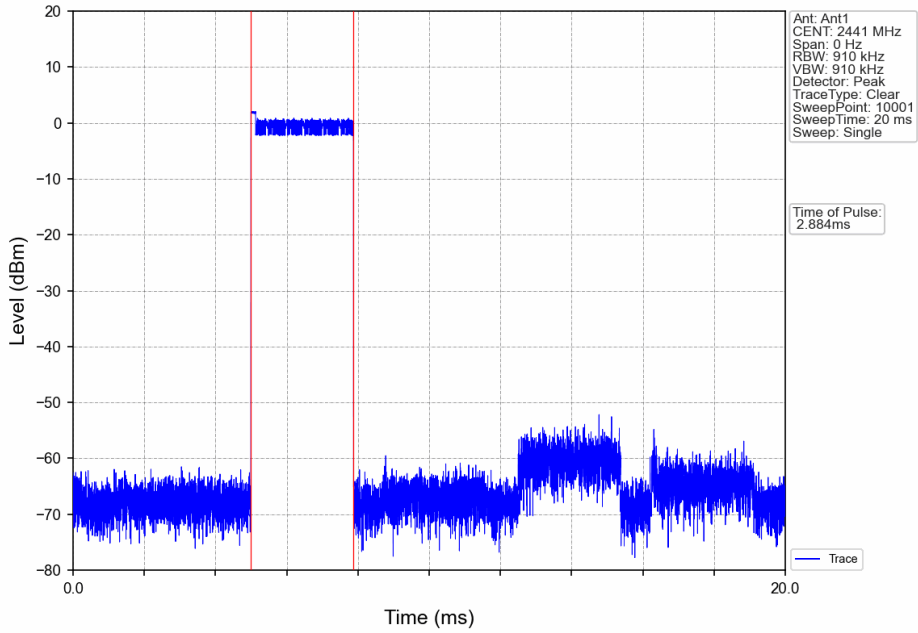
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



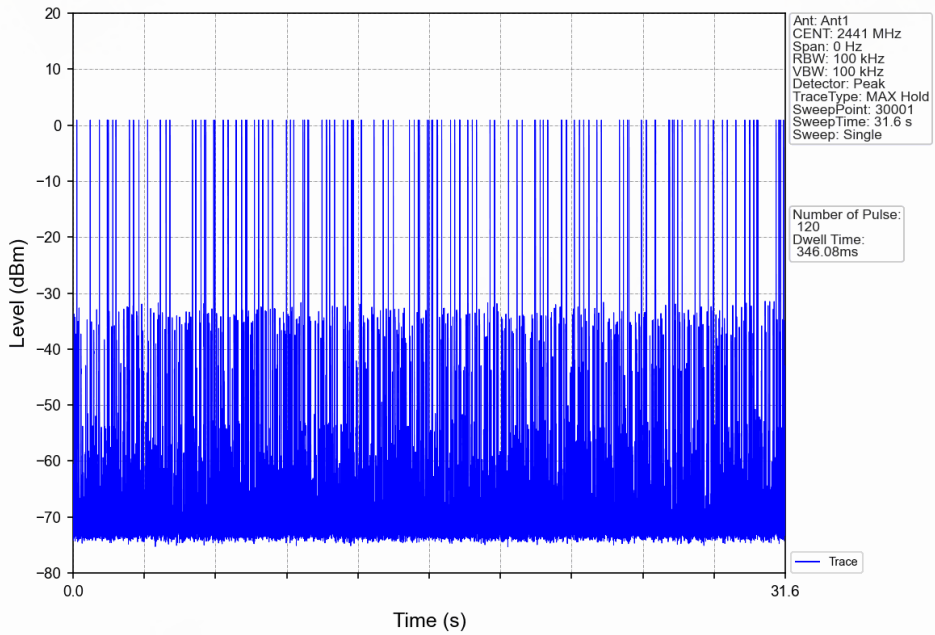
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



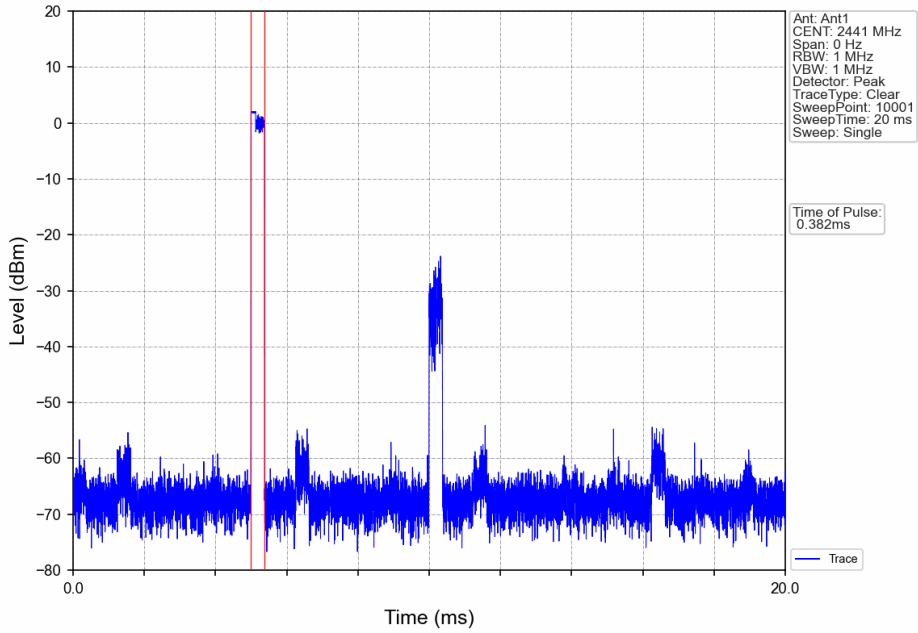
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



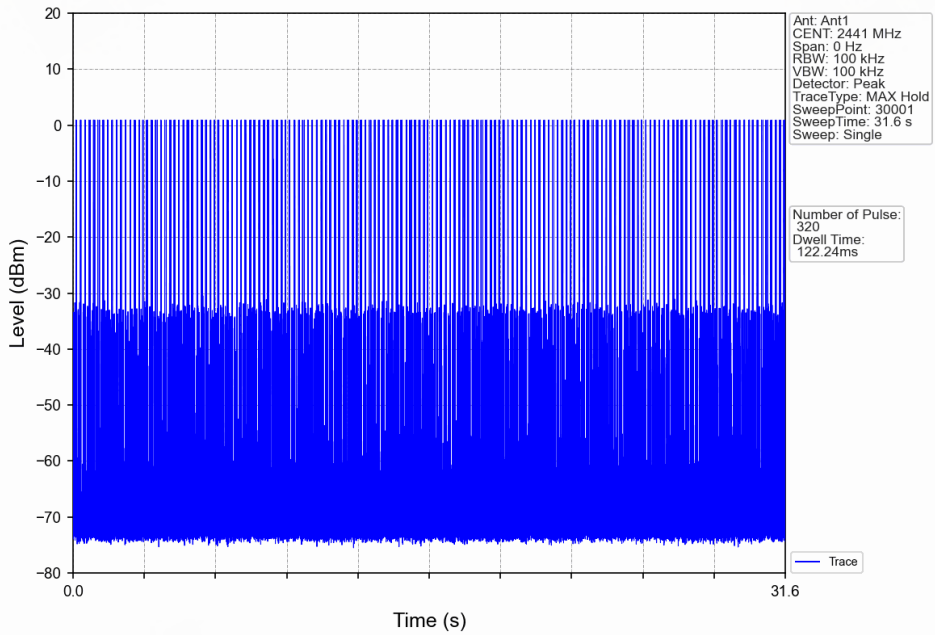
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

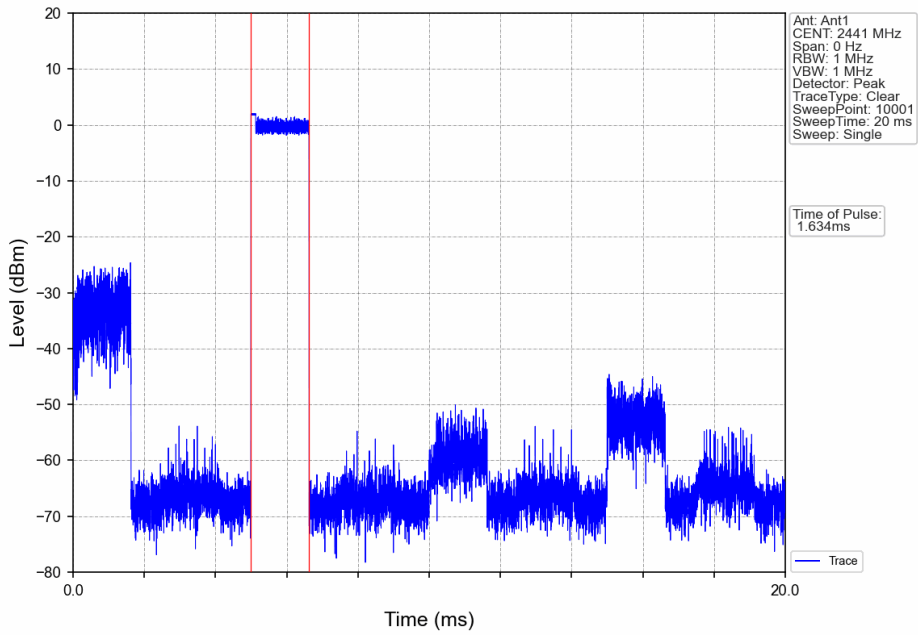


8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

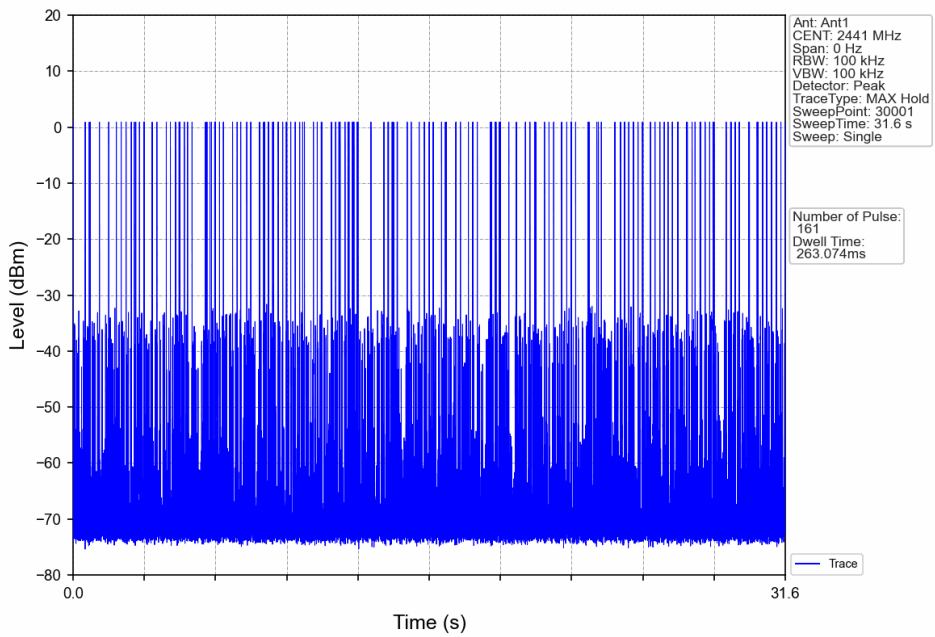




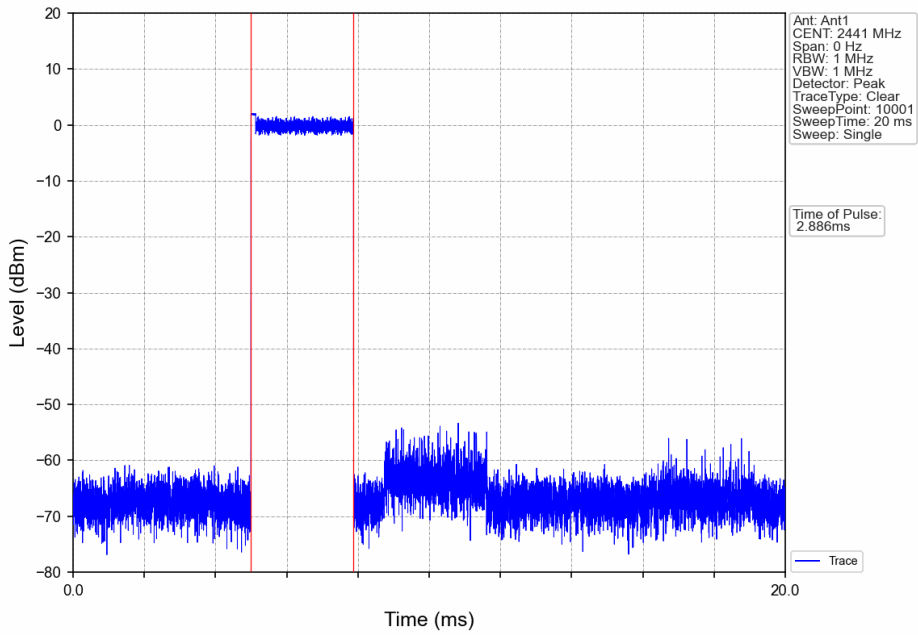
8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



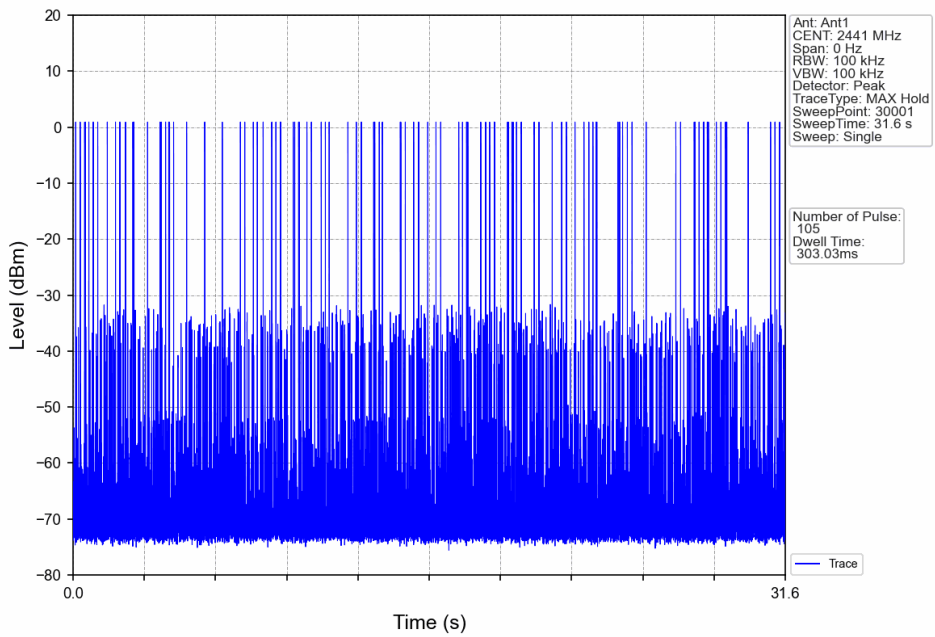
8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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

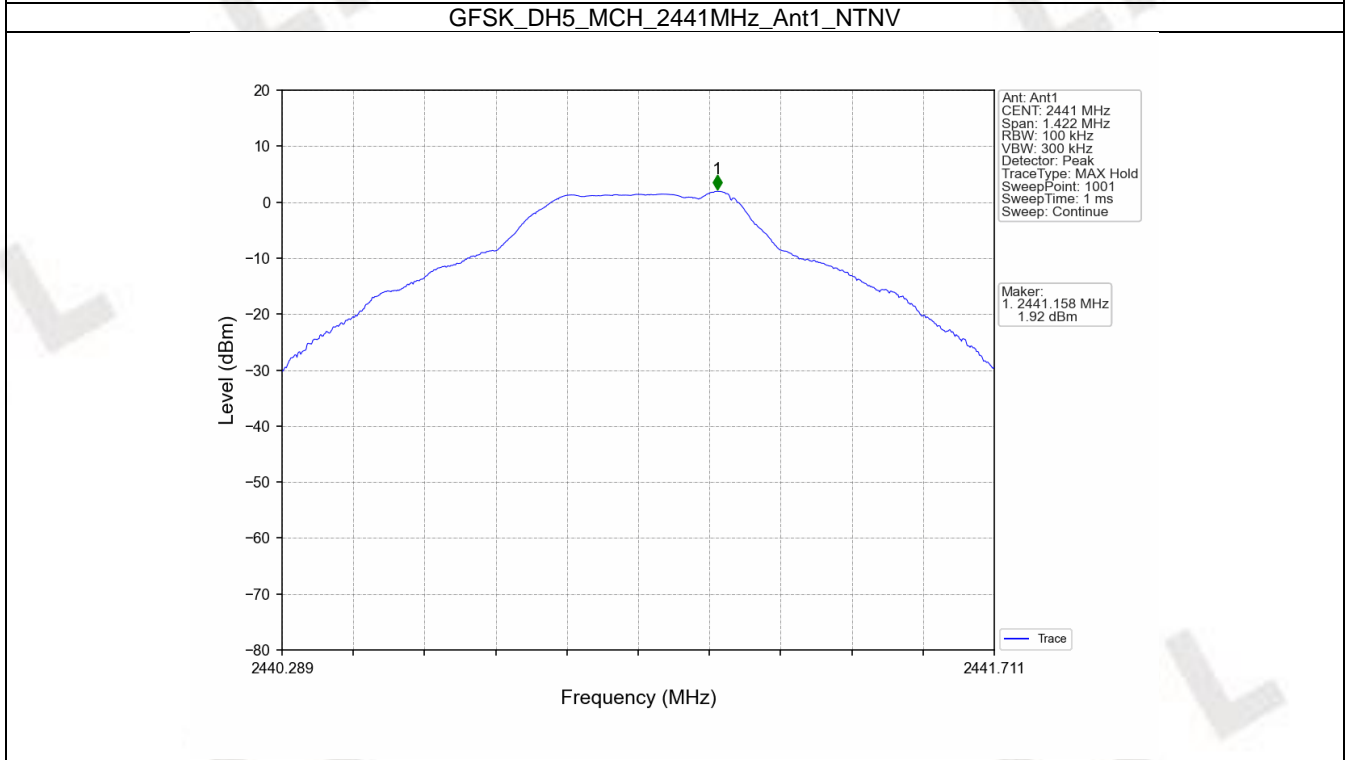
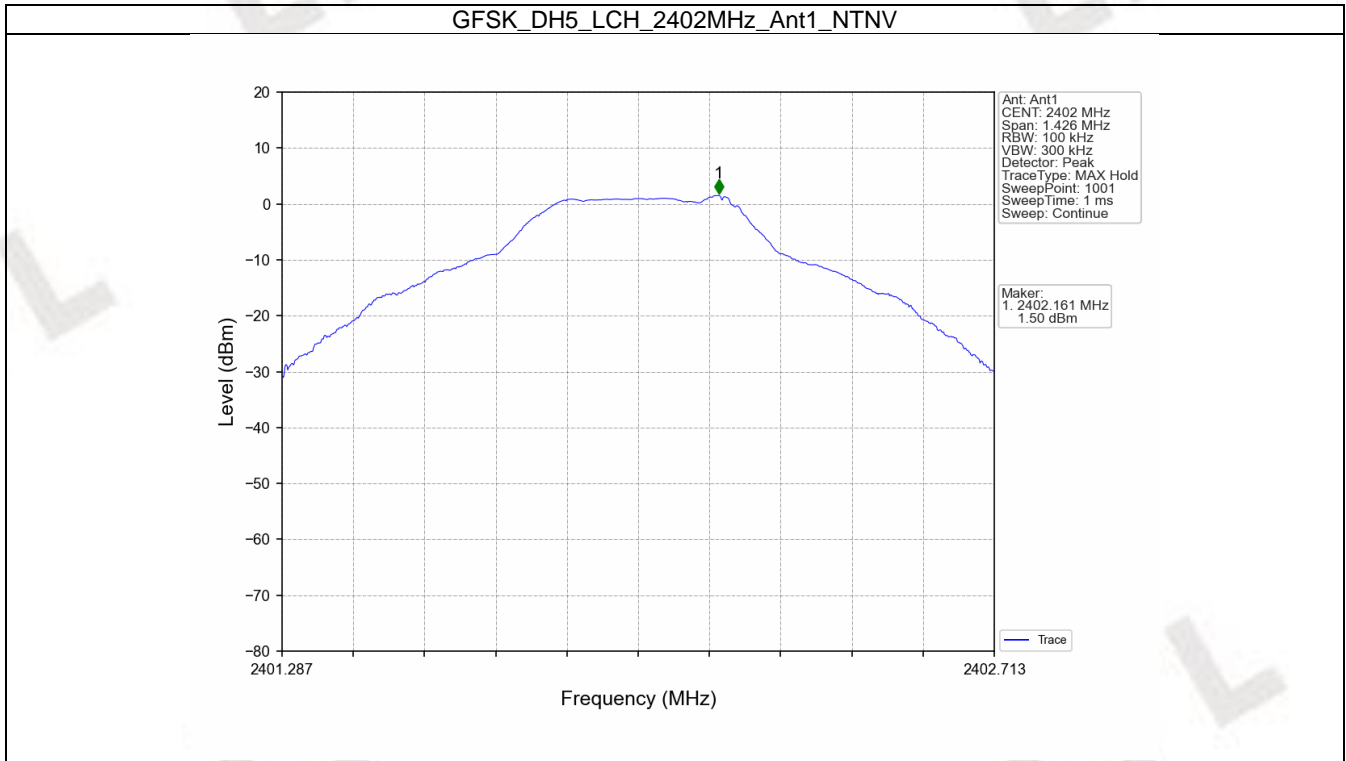
### 6.1 Ref

#### 6.1.1 Test Result

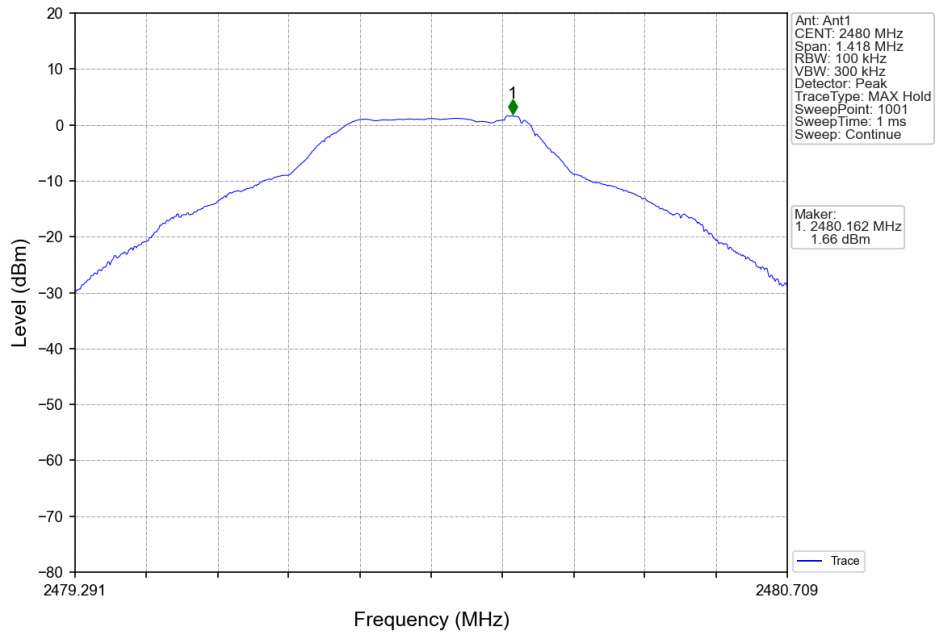
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	1.50
		2441	DH5	1	1.92
		2480	DH5	1	1.66
Pi/4DQPSK	SISO	2402	2DH5	1	1.50
		2441	2DH5	1	1.89
		2480	2DH5	1	1.58
8DPSK	SISO	2402	3DH5	1	1.49
		2441	3DH5	1	1.92
		2480	3DH5	1	1.65

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.

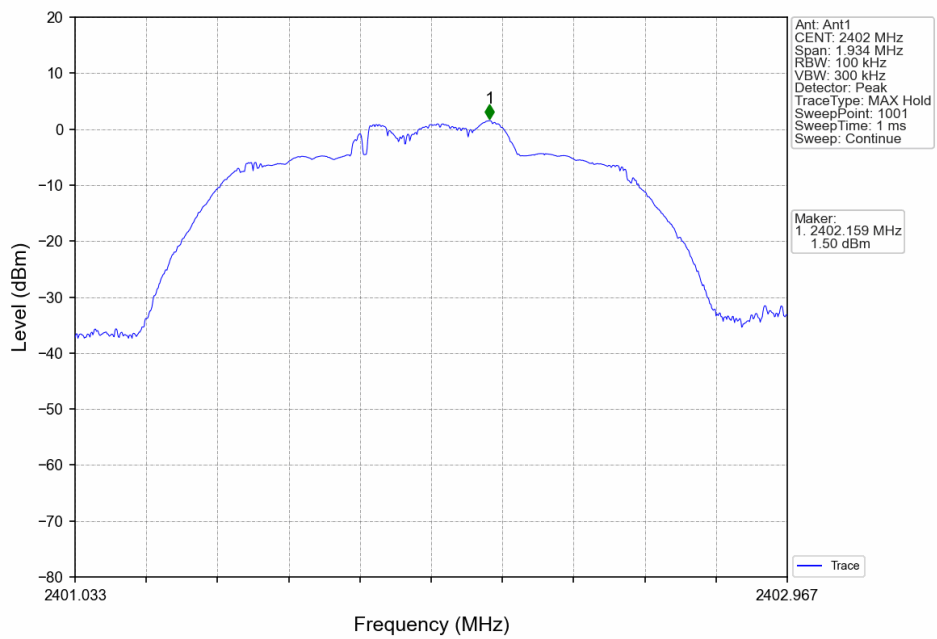
6.1.2 Test Graph



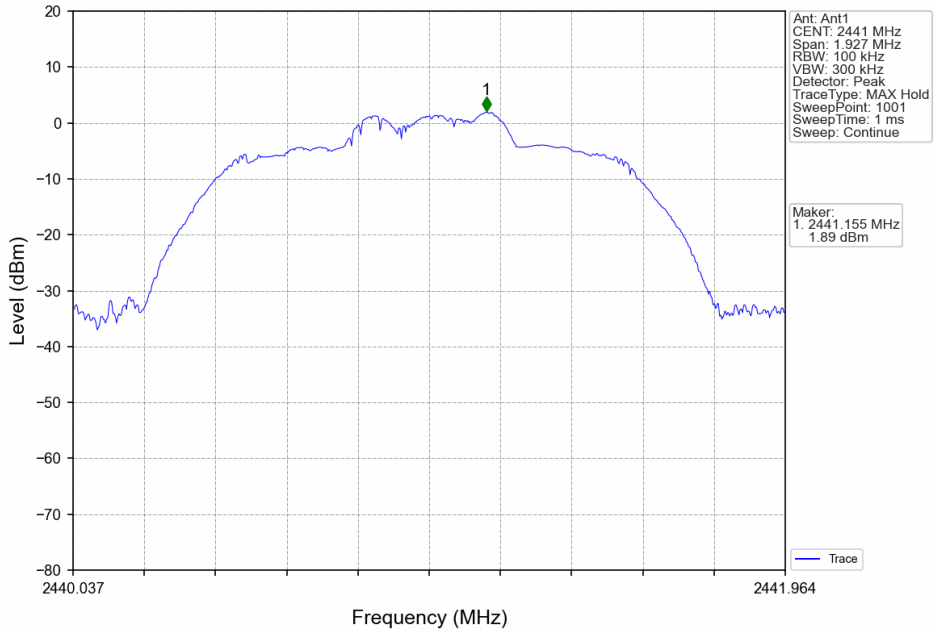
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



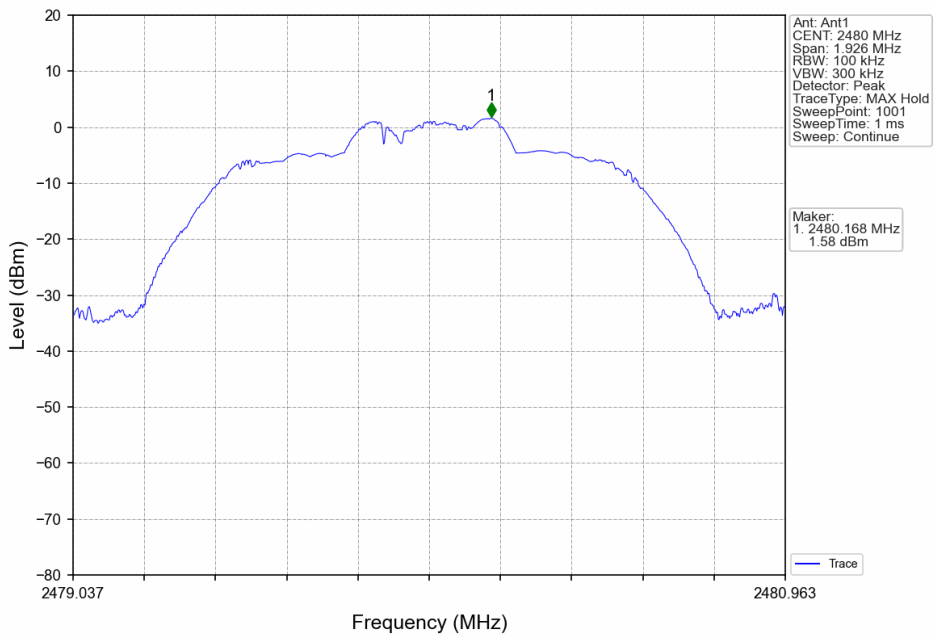
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



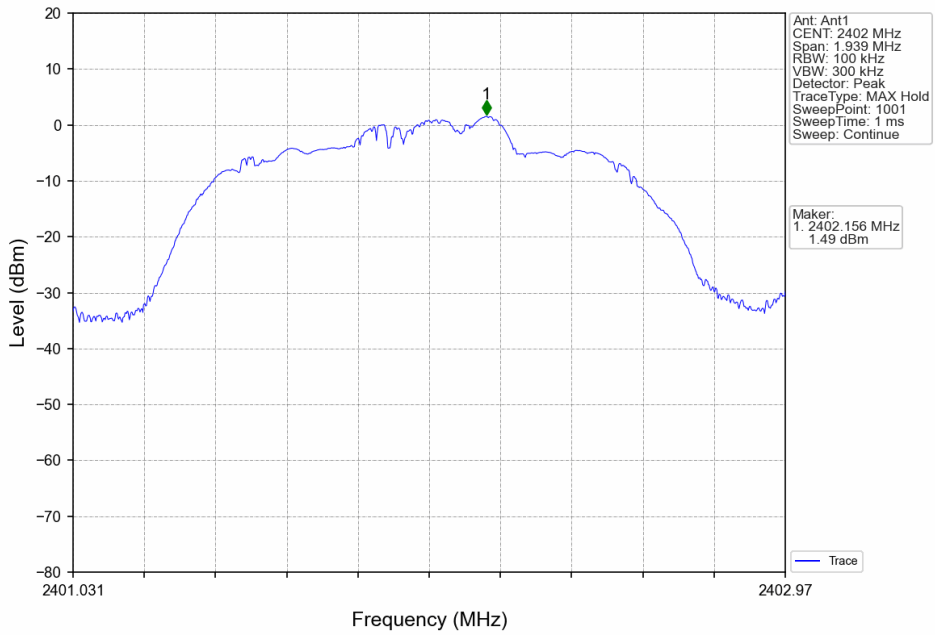
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



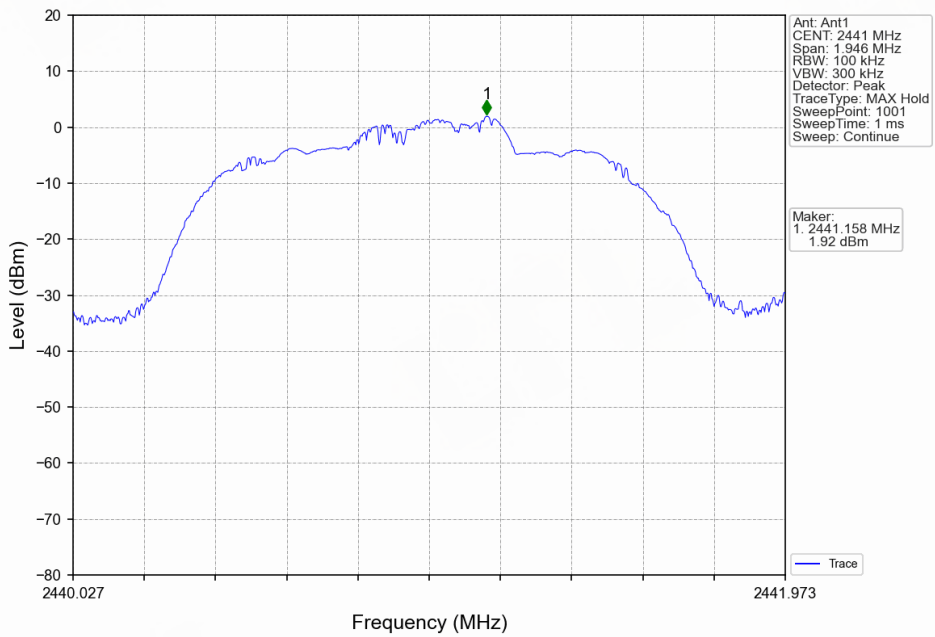
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

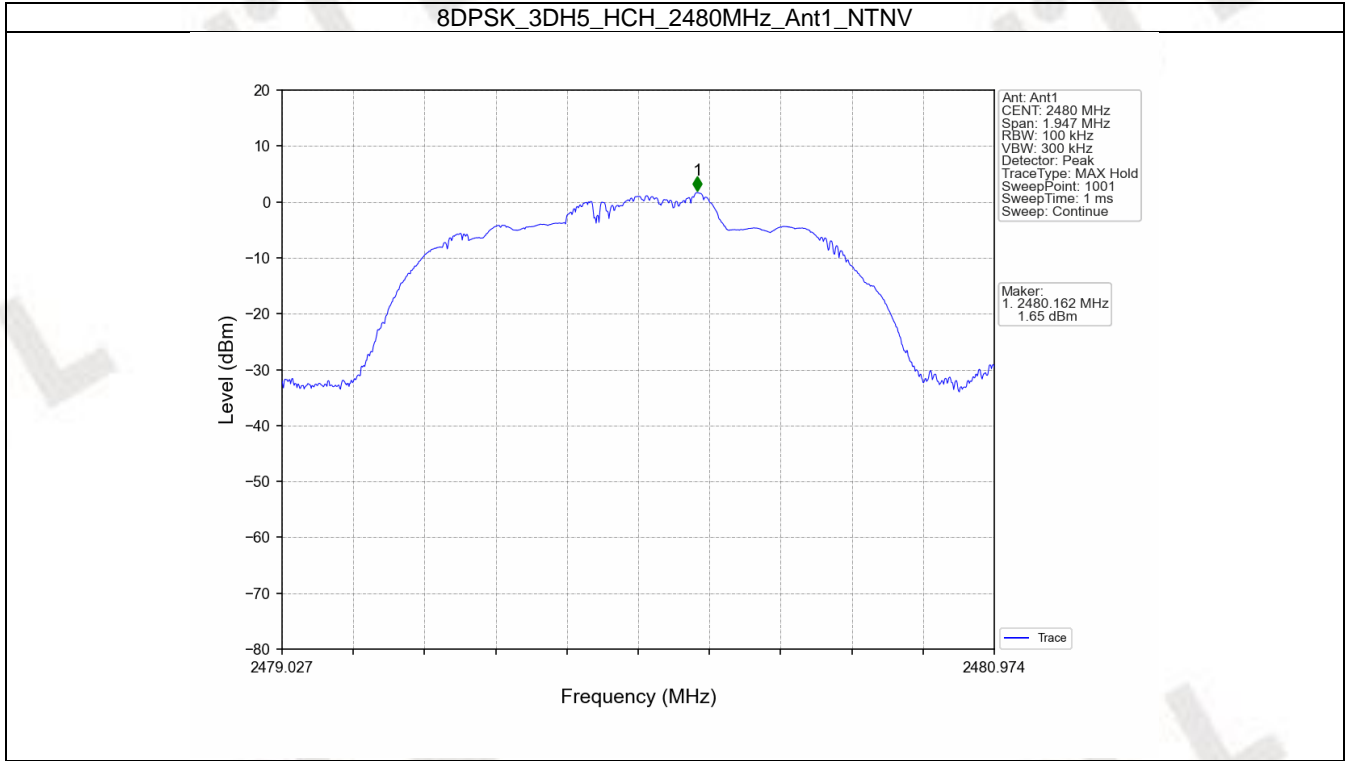


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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







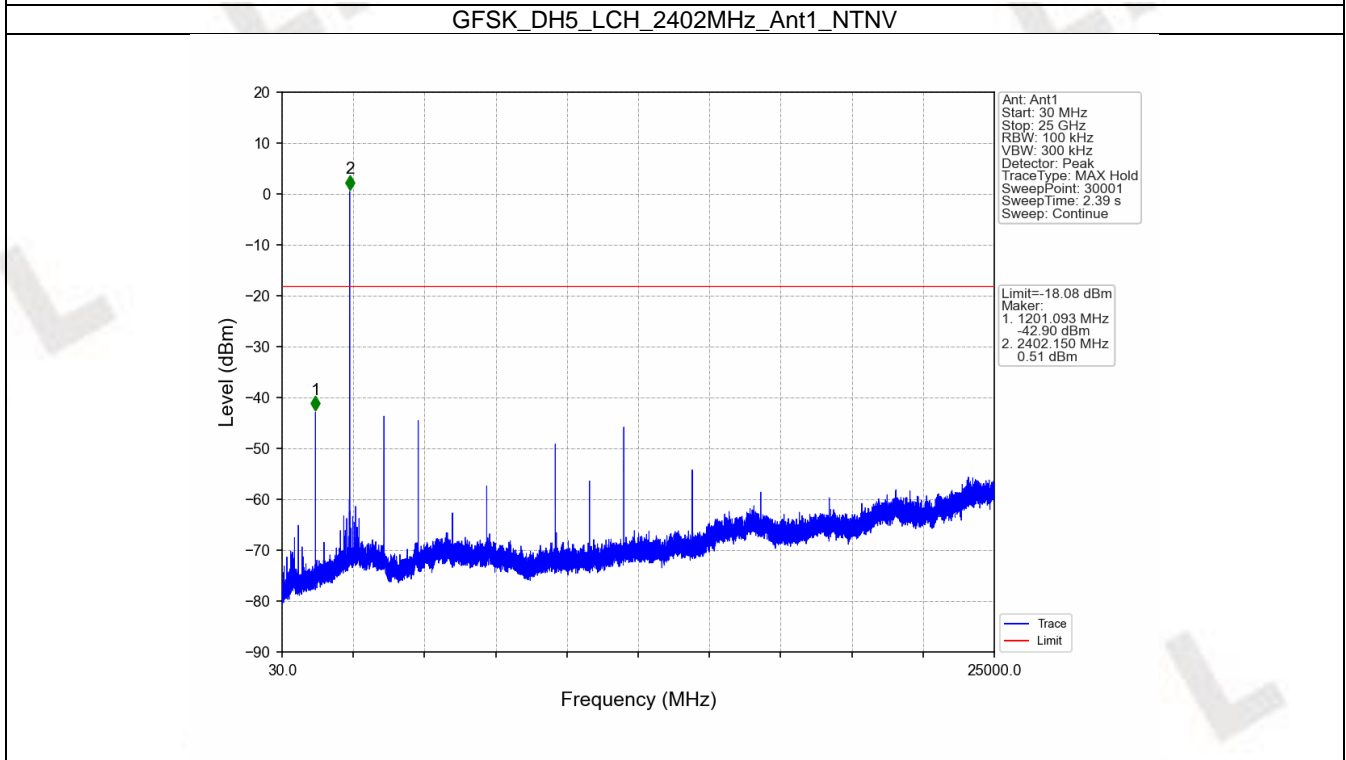
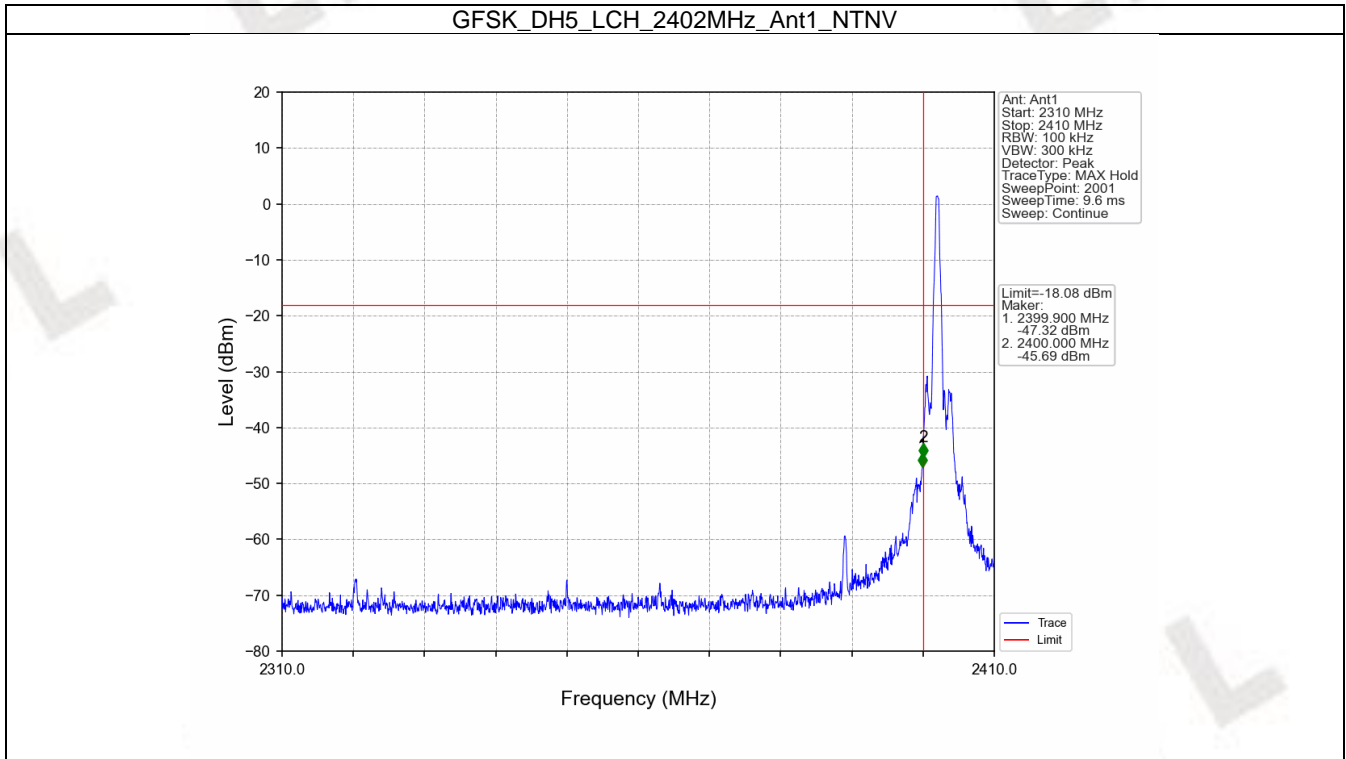
## 6.2 CSE

## 6.2.1 Test Result

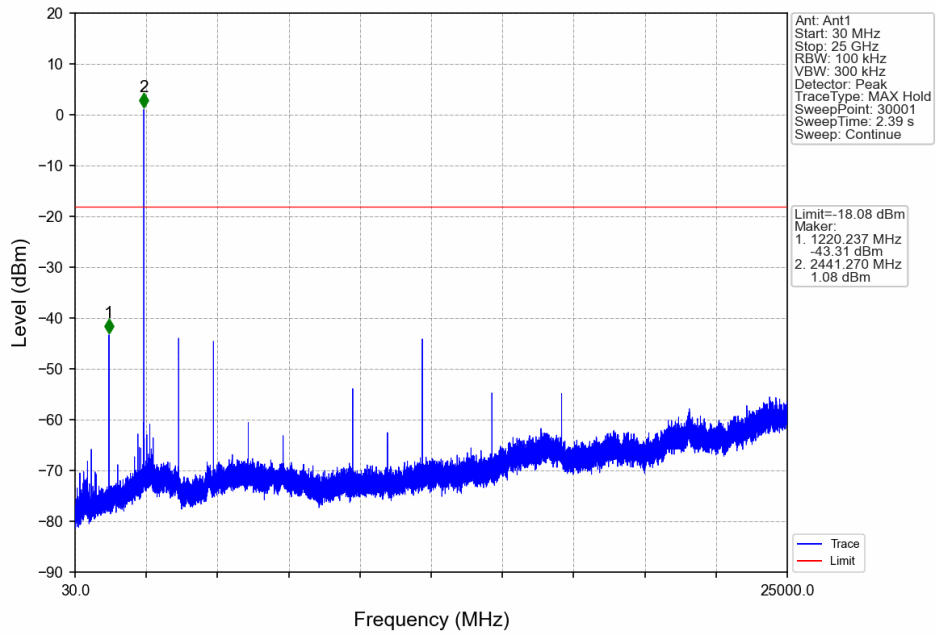
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.92	-18.08	Pass
		2441	DH5	1	1.92	-18.08	Pass
		2480	DH5	1	1.92	-18.08	Pass
		HOPP	DH5	1	1.92	-18.08	Pass
					1.92	-18.08	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.89	-18.11	Pass
		2441	2DH5	1	1.89	-18.11	Pass
		2480	2DH5	1	1.89	-18.11	Pass
		HOPP	2DH5	1	1.89	-18.11	Pass
					1.89	-18.11	Pass
8DPSK	SISO	2402	3DH5	1	1.92	-18.08	Pass
		2441	3DH5	1	1.92	-18.08	Pass
		2480	3DH5	1	1.92	-18.08	Pass
		HOPP	3DH5	1	1.92	-18.08	Pass
					1.92	-18.08	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.

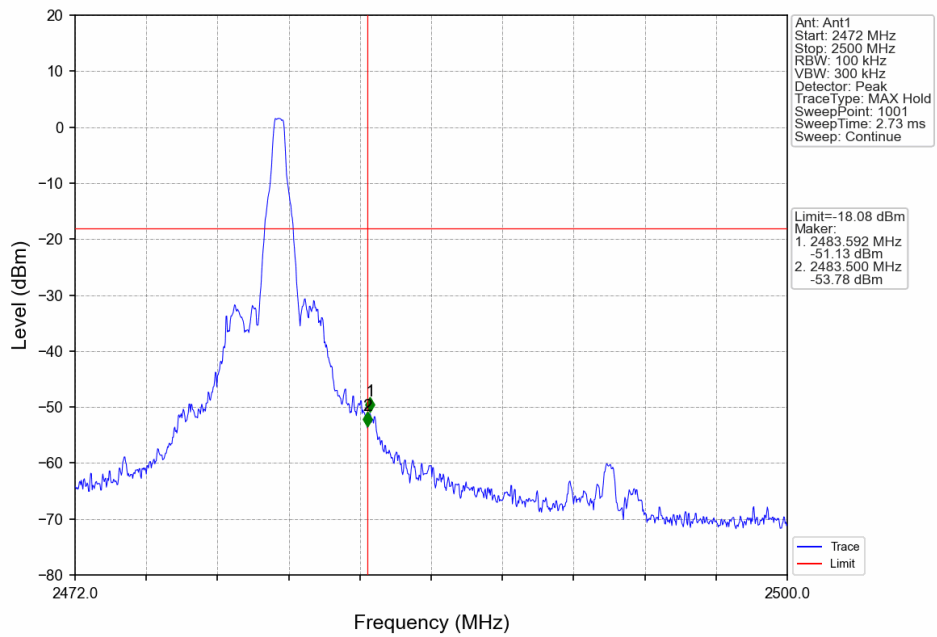
6.2.2 Test Graph



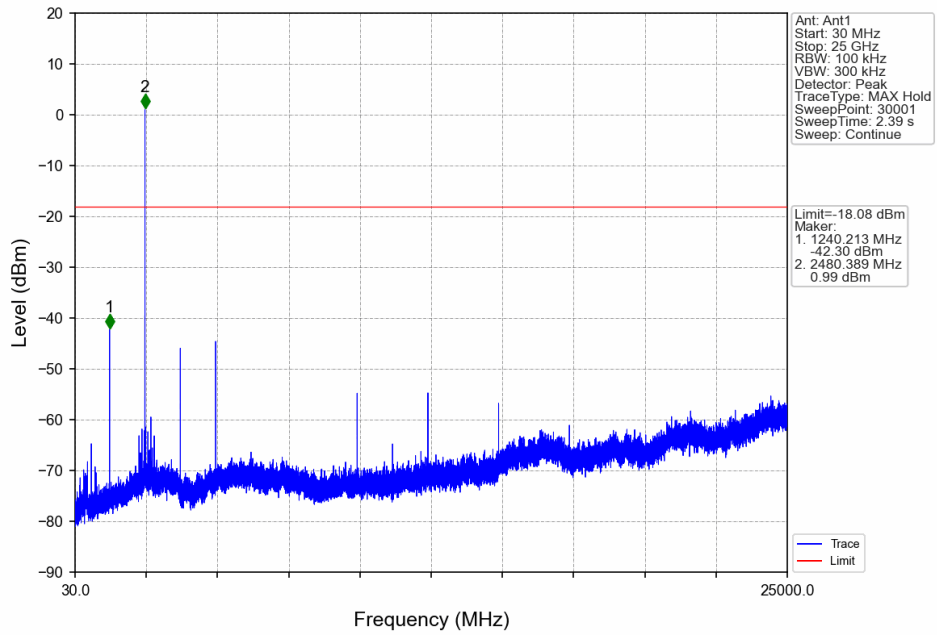
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



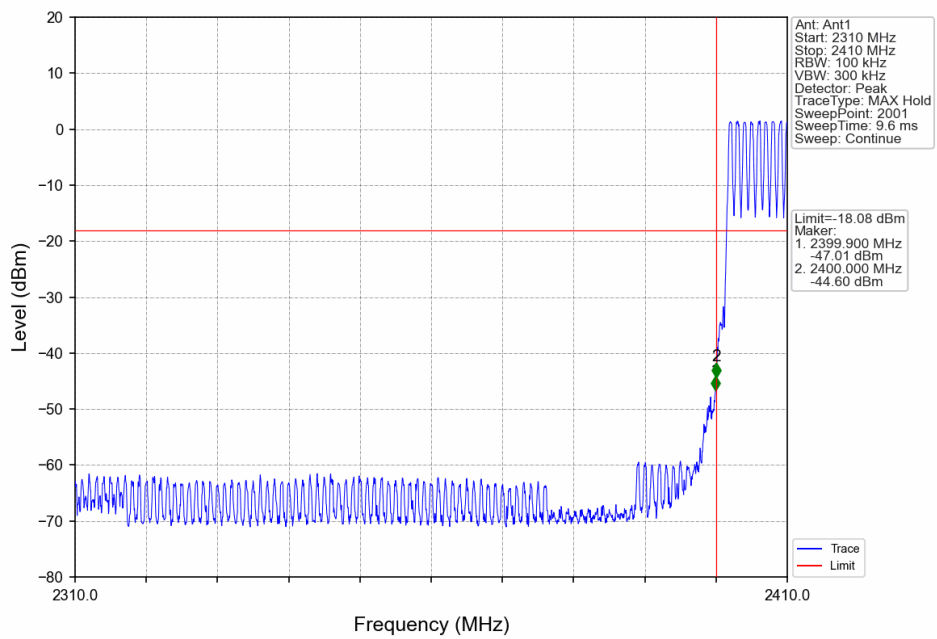
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

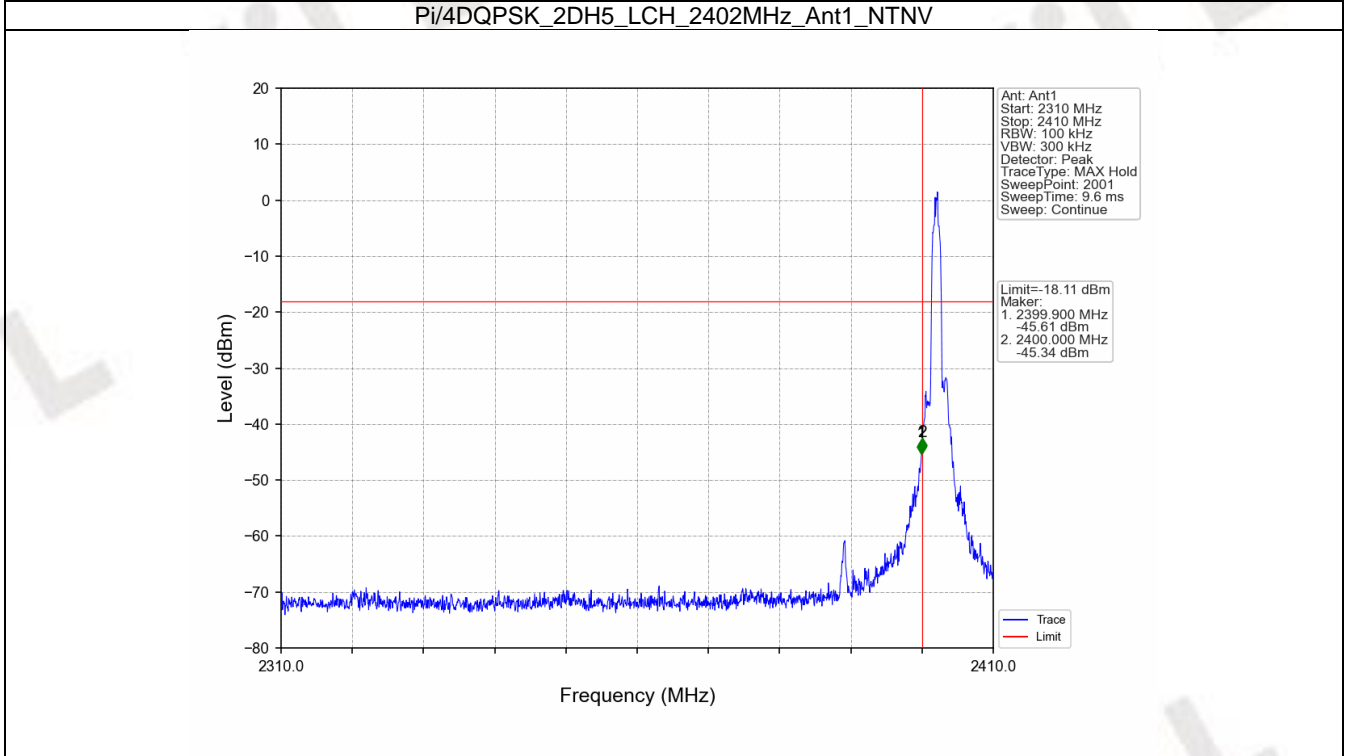
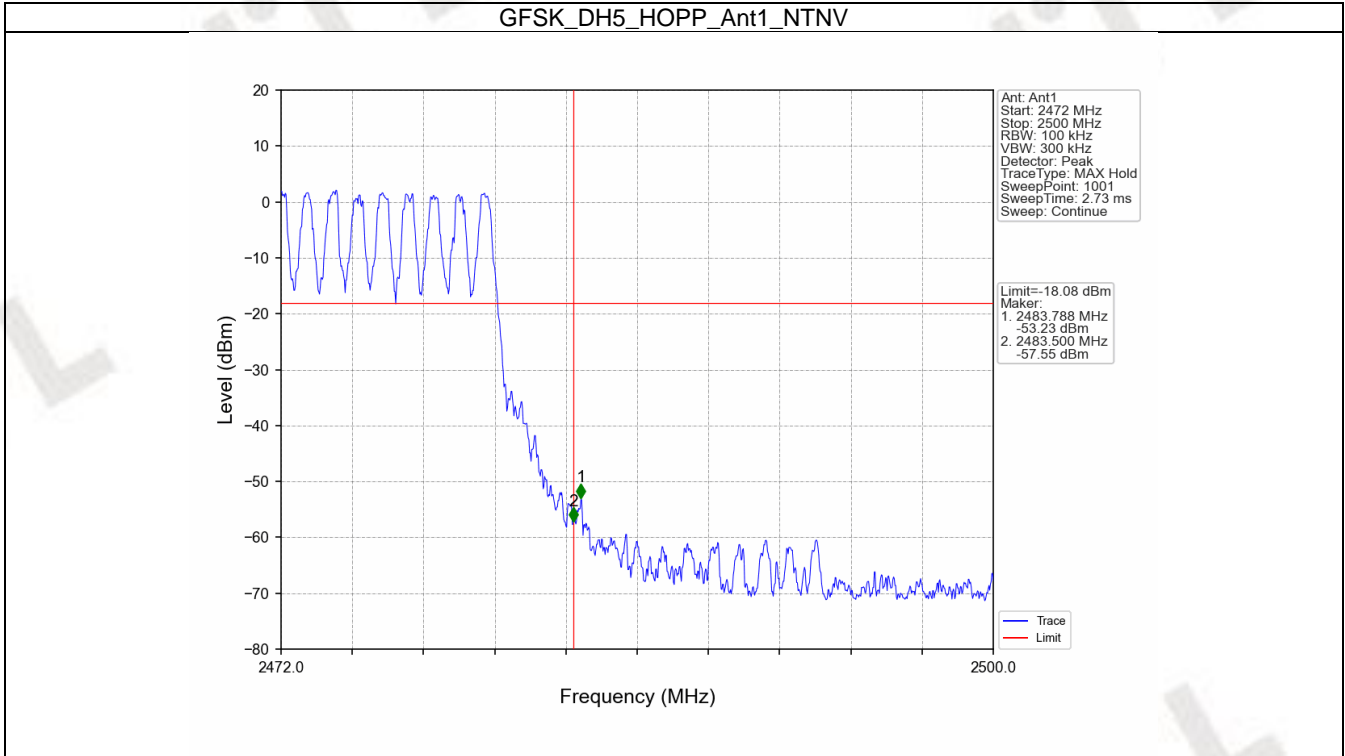


GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

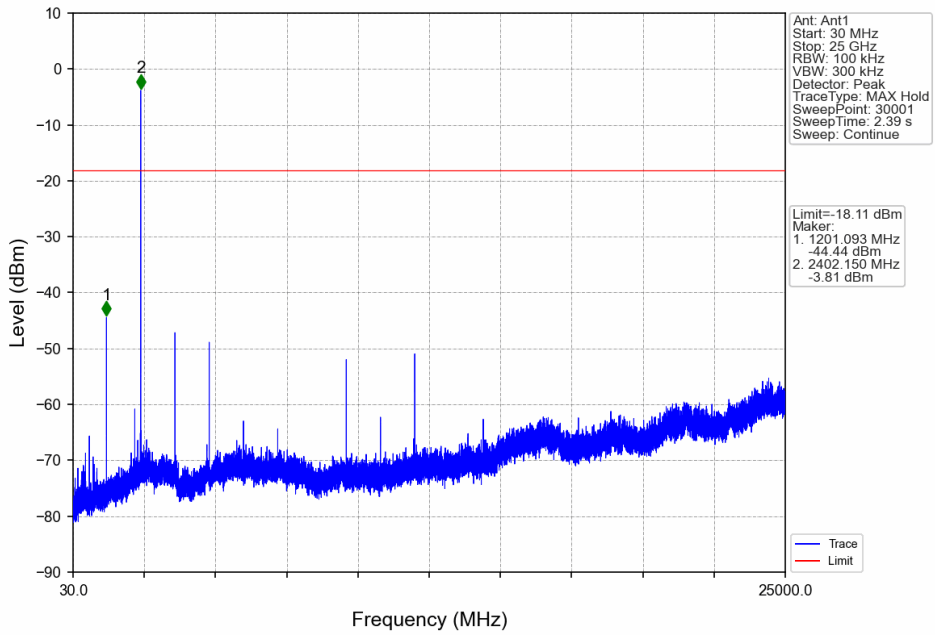


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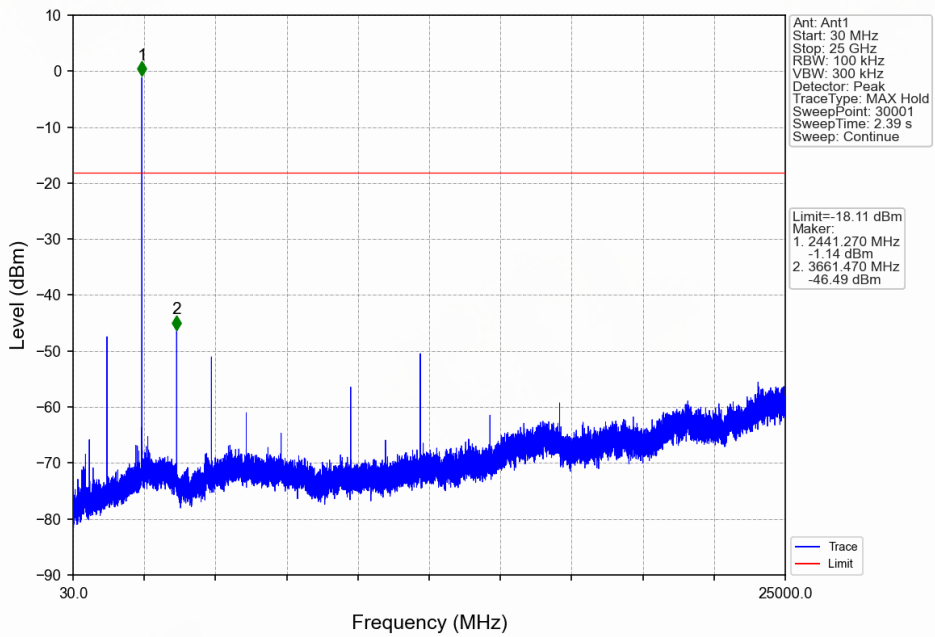




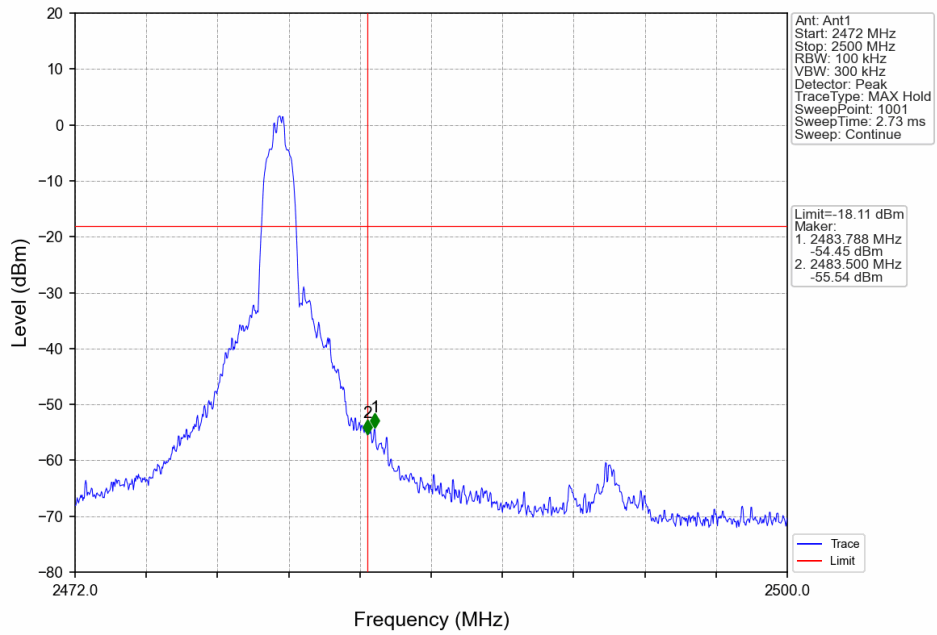
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



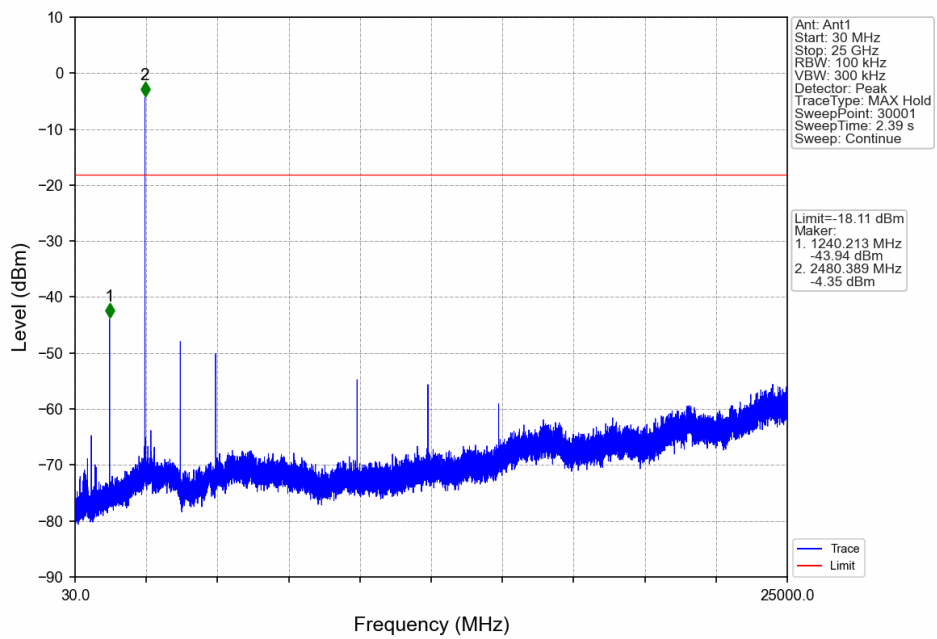
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



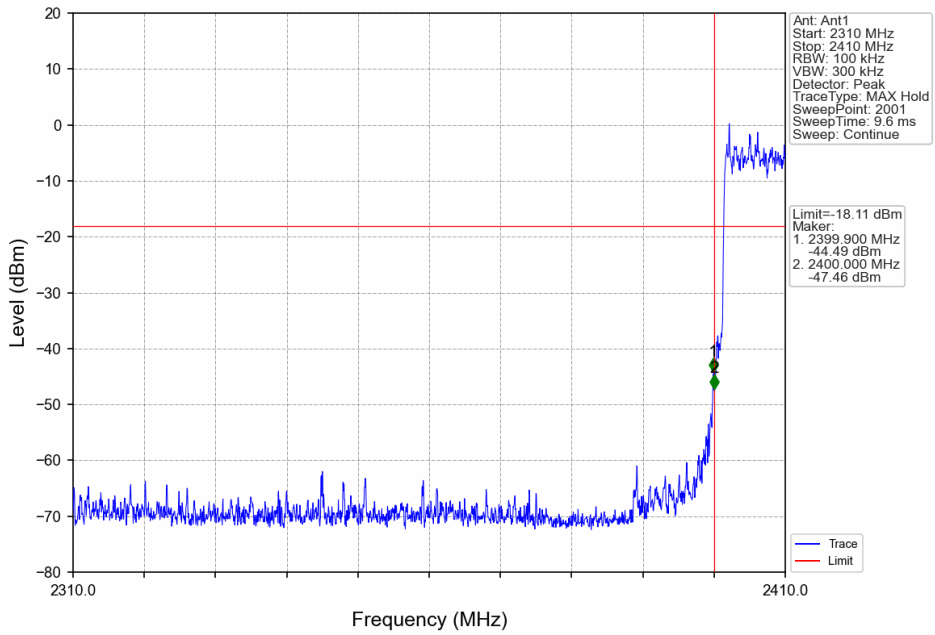
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



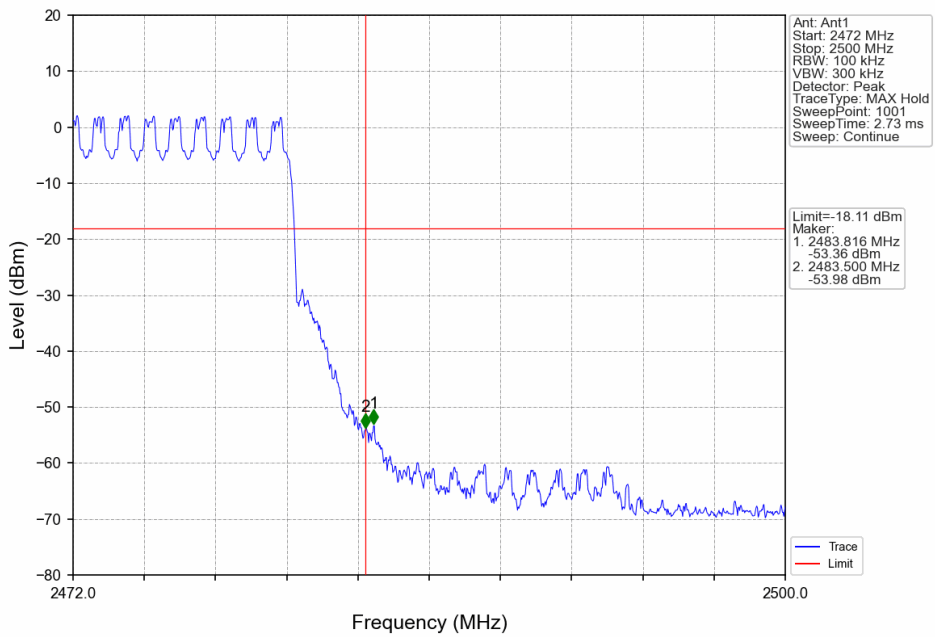
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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

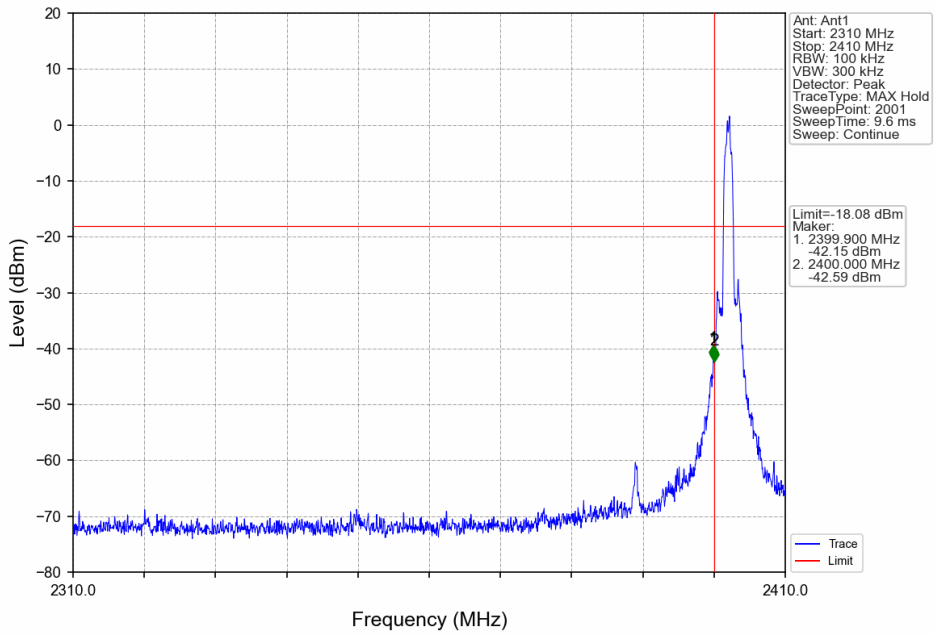


Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

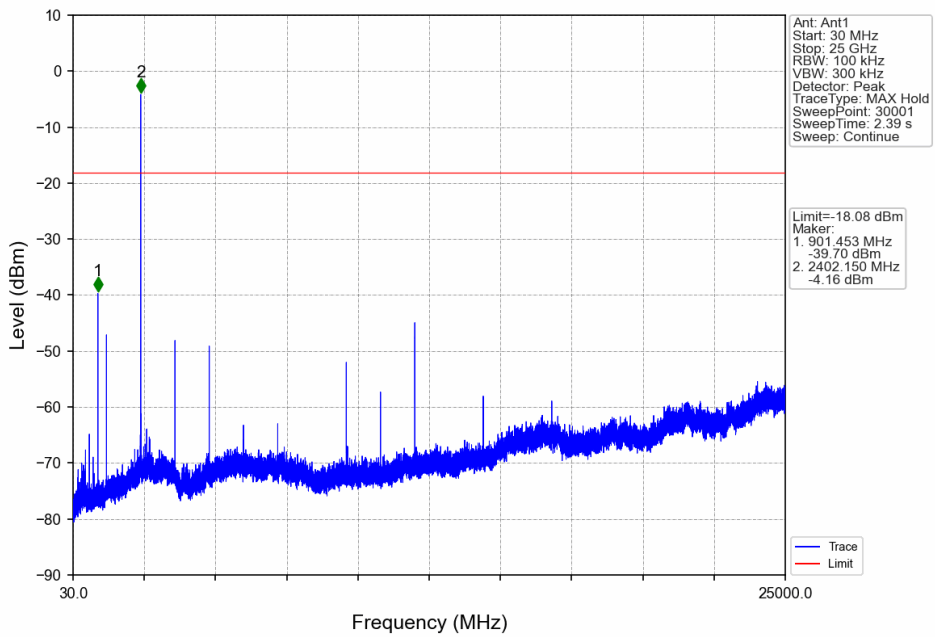




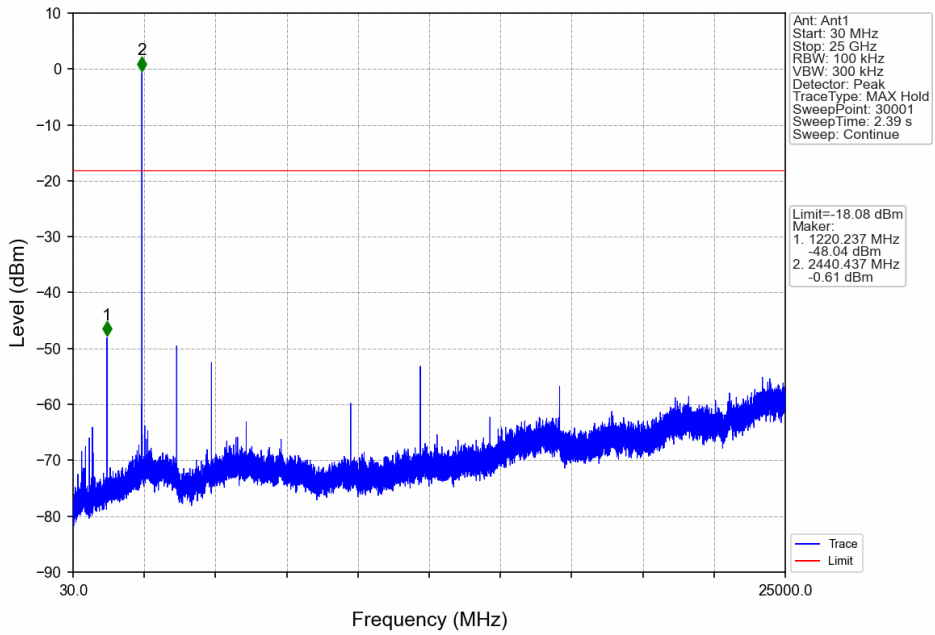
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



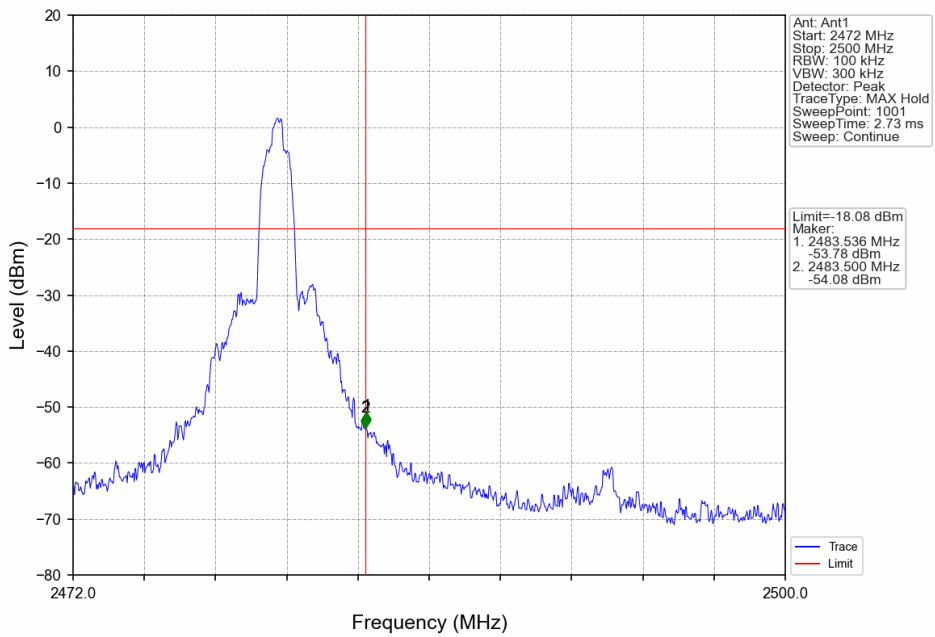
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



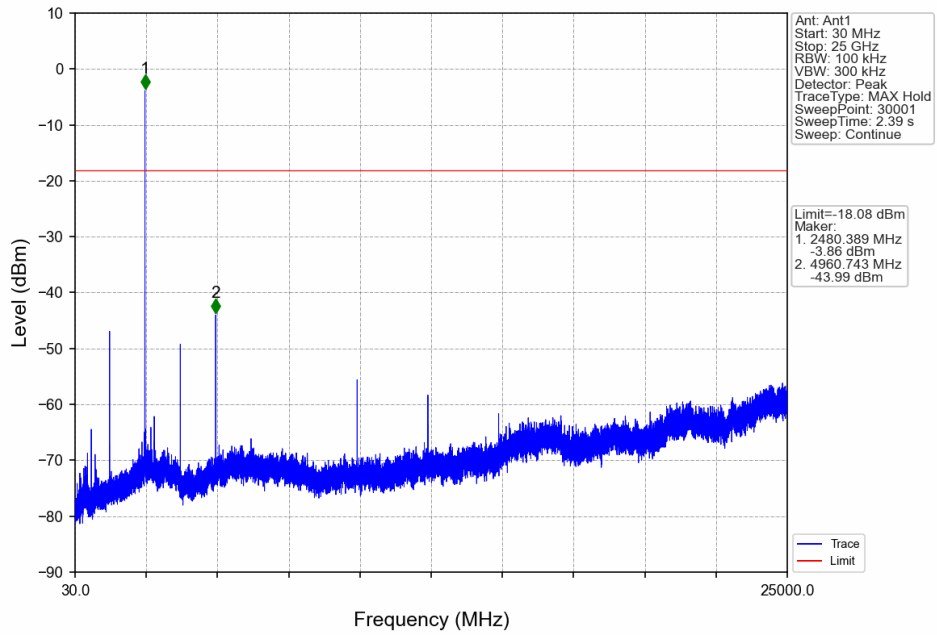
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV

