

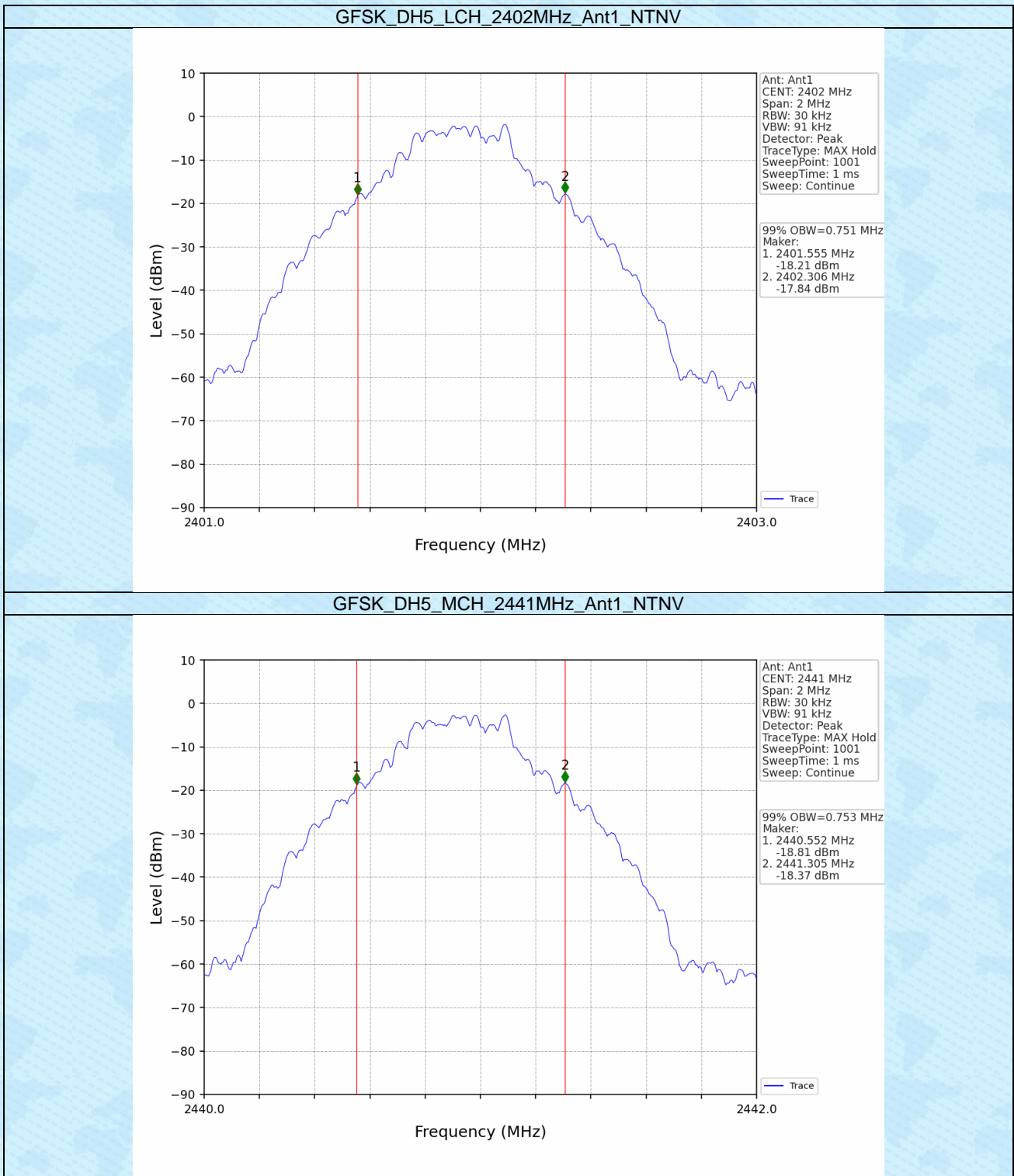
## 1. Bandwidth

### 1.1 OBW

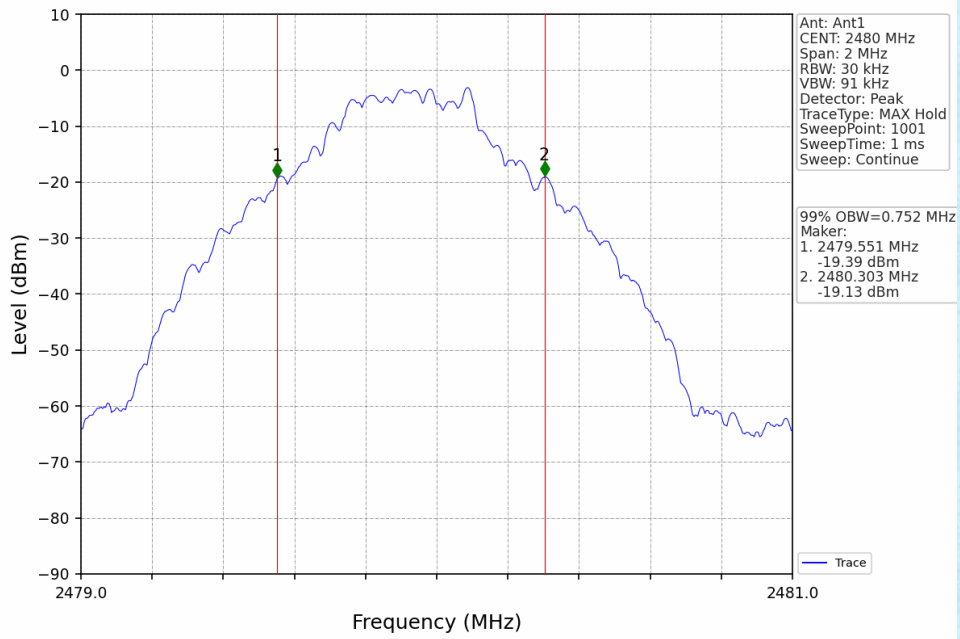
#### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.751	Pass
		2441	DH5	1	0.753	Pass
		2480	DH5	1	0.752	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.151	Pass
		2441	2DH5	1	1.150	Pass
		2480	2DH5	1	1.147	Pass
8DPSK	SISO	2402	3DH5	1	1.157	Pass
		2441	3DH5	1	1.156	Pass
		2480	3DH5	1	1.155	Pass

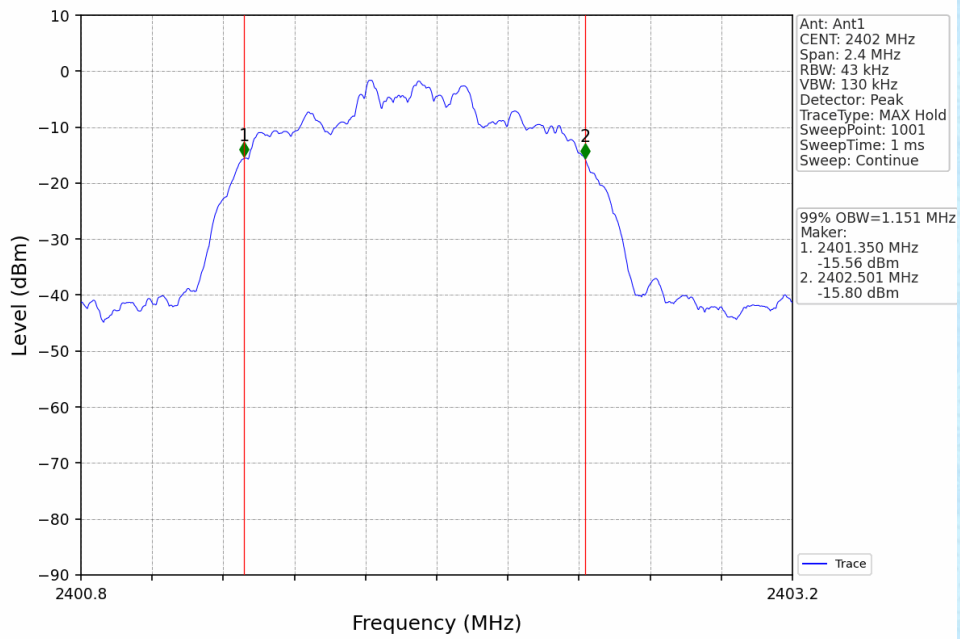
## 1.1.2 Test Graph



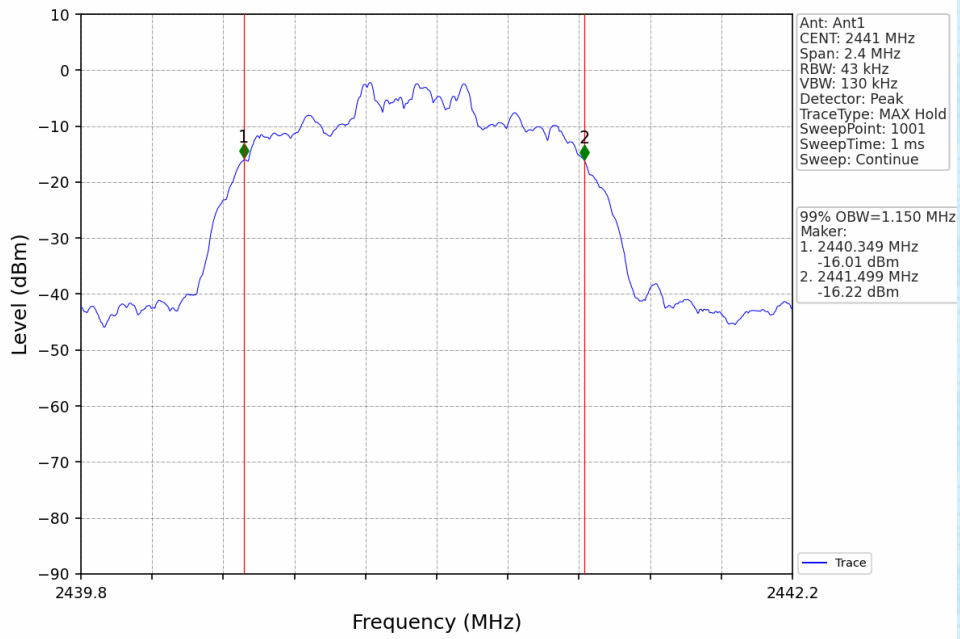
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



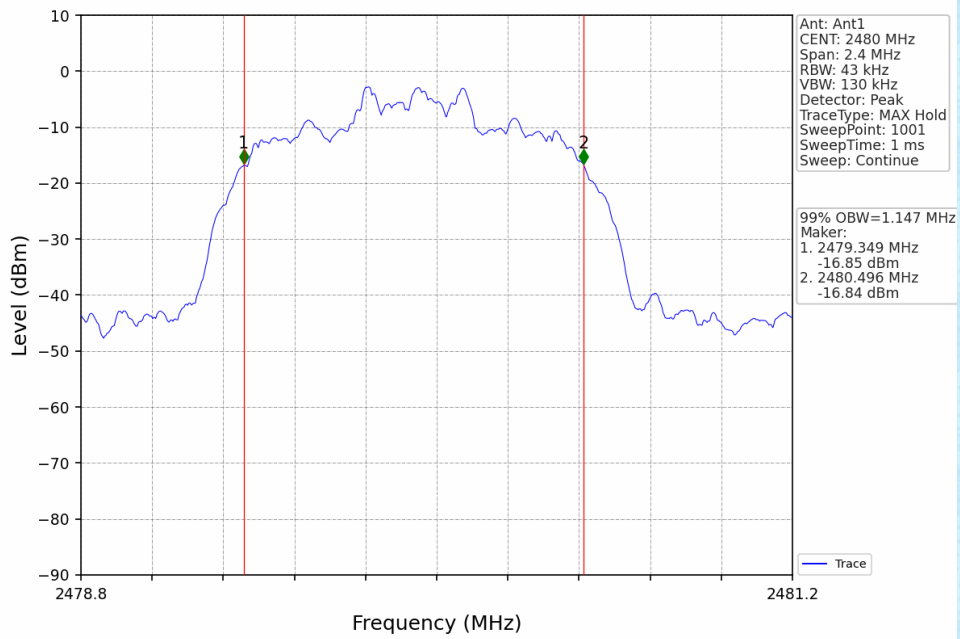
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



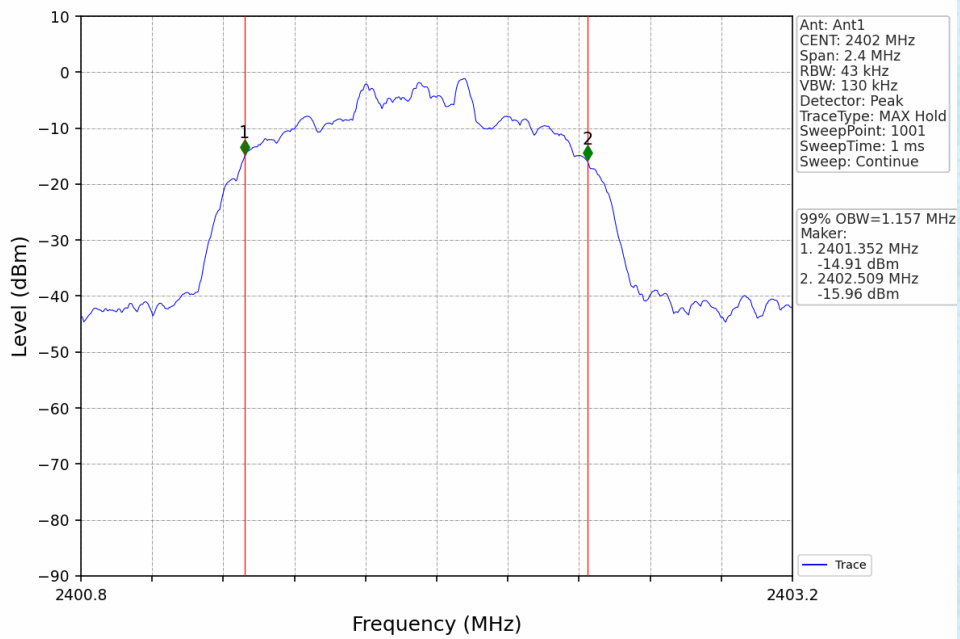
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



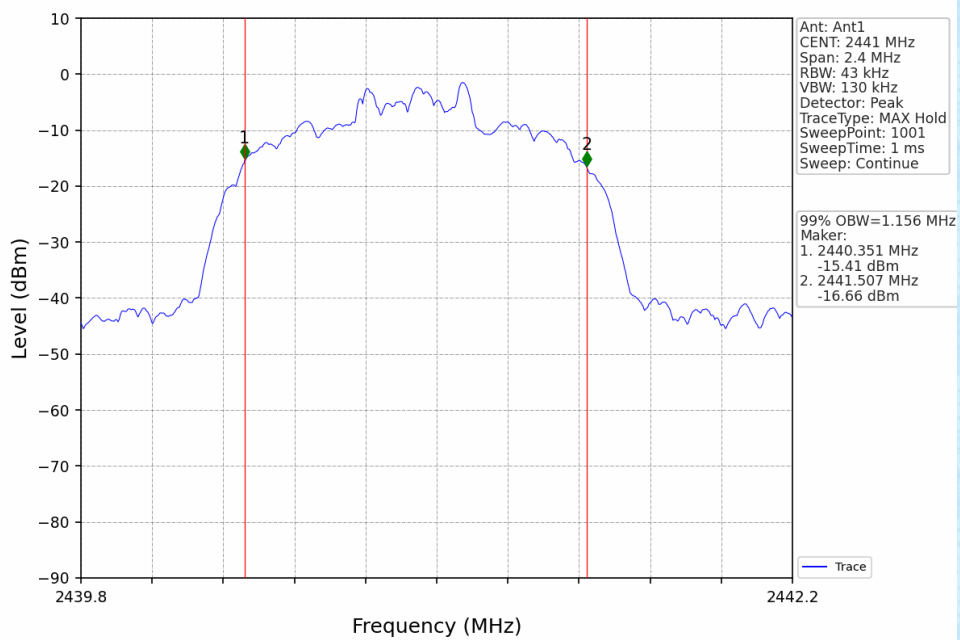
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

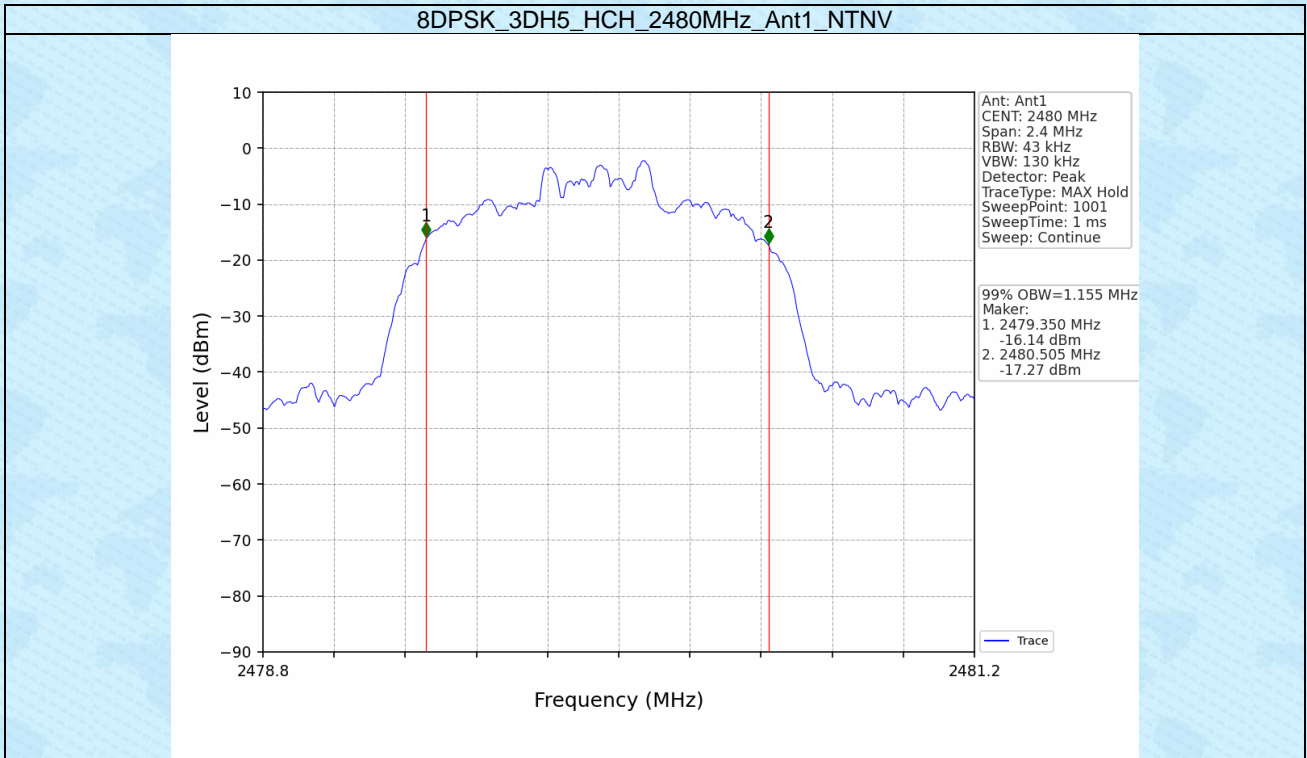


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



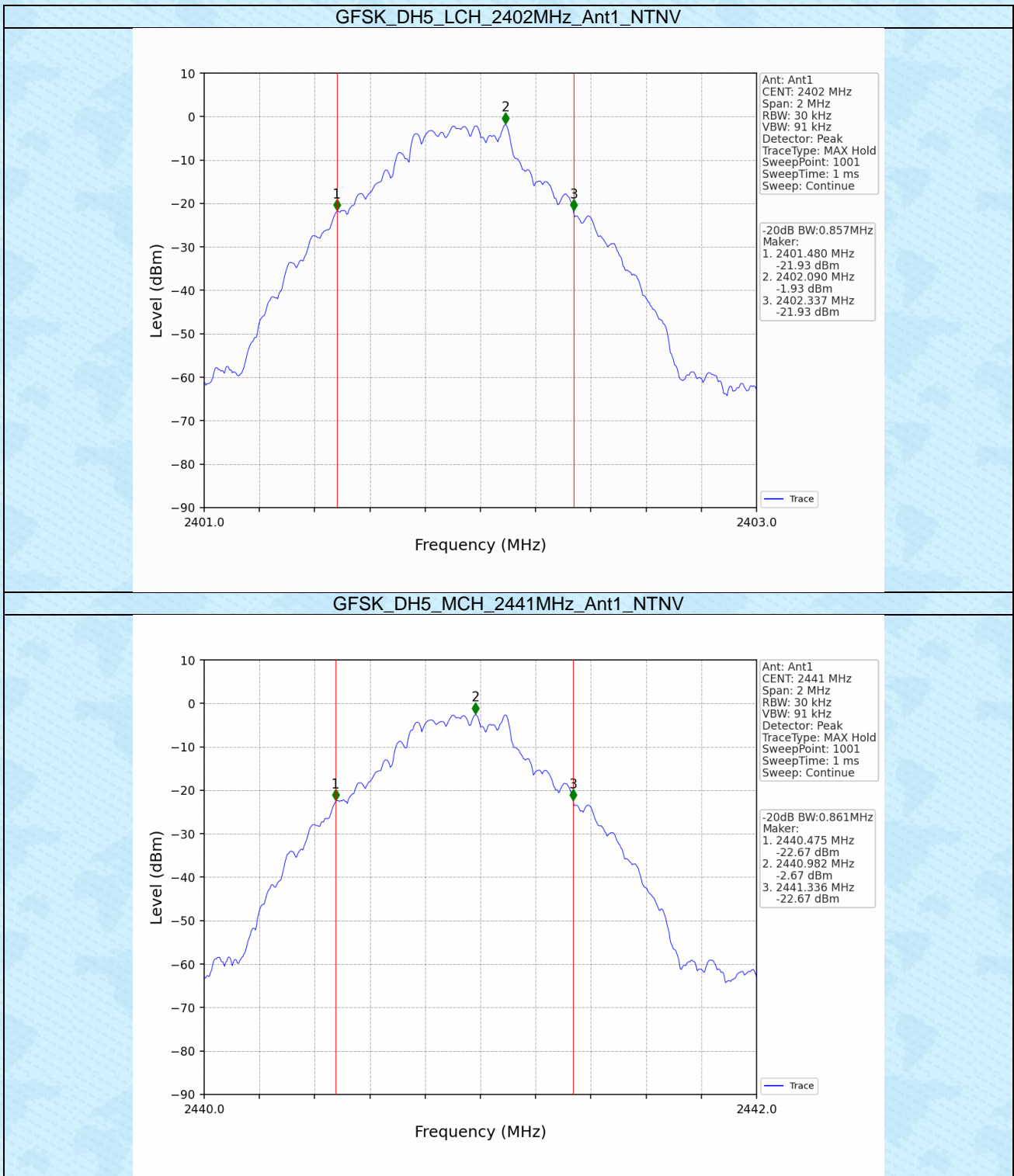


## 1.2 20dB BW

### 1.2.1 Test Result

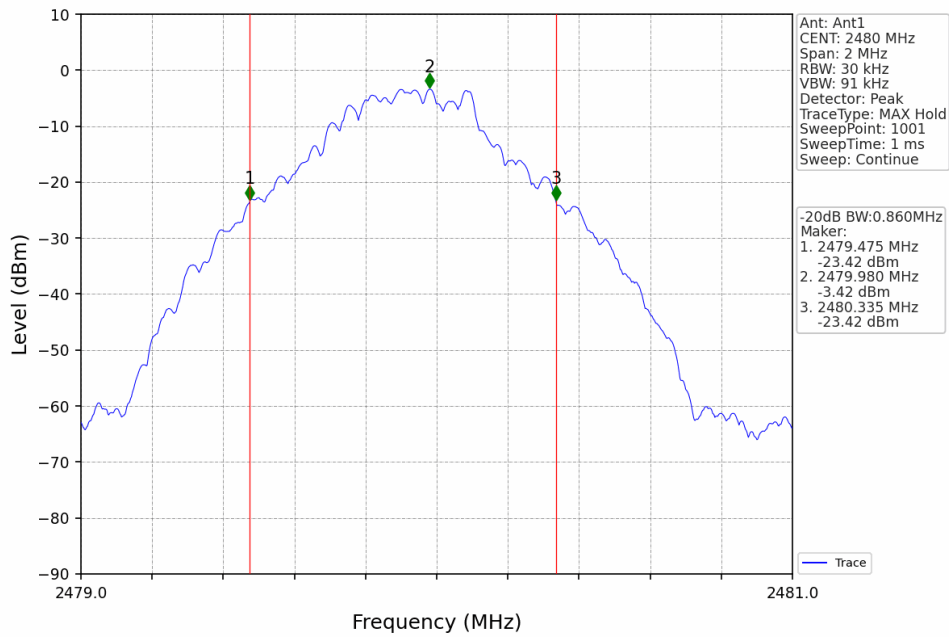
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.857	Pass
		2441	DH5	1	0.861	Pass
		2480	DH5	1	0.860	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.279	Pass
		2441	2DH5	1	1.281	Pass
		2480	2DH5	1	1.280	Pass
8DPSK	SISO	2402	3DH5	1	1.291	Pass
		2441	3DH5	1	1.290	Pass
		2480	3DH5	1	1.291	Pass

## 1.2.2 Test Graph

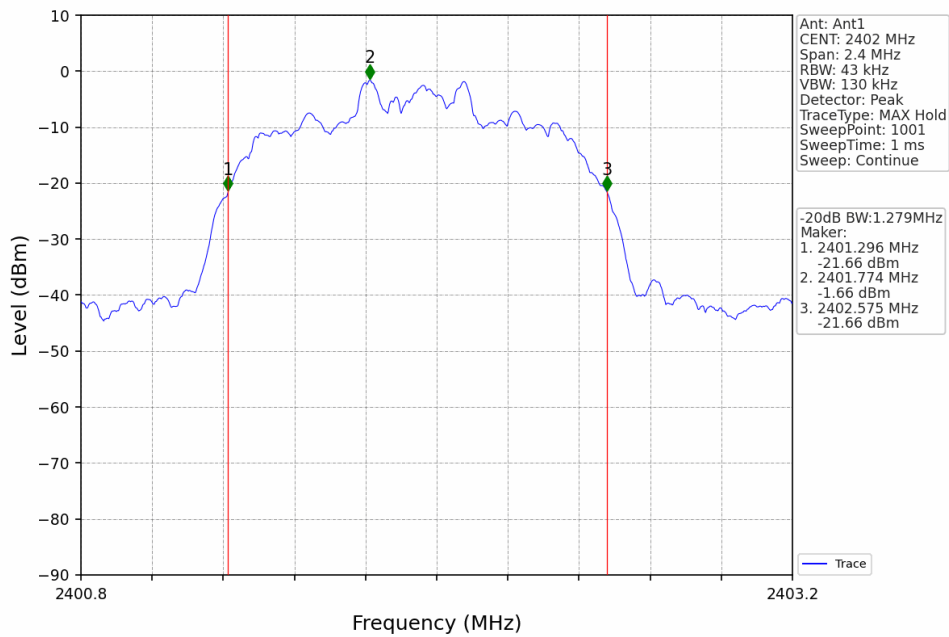




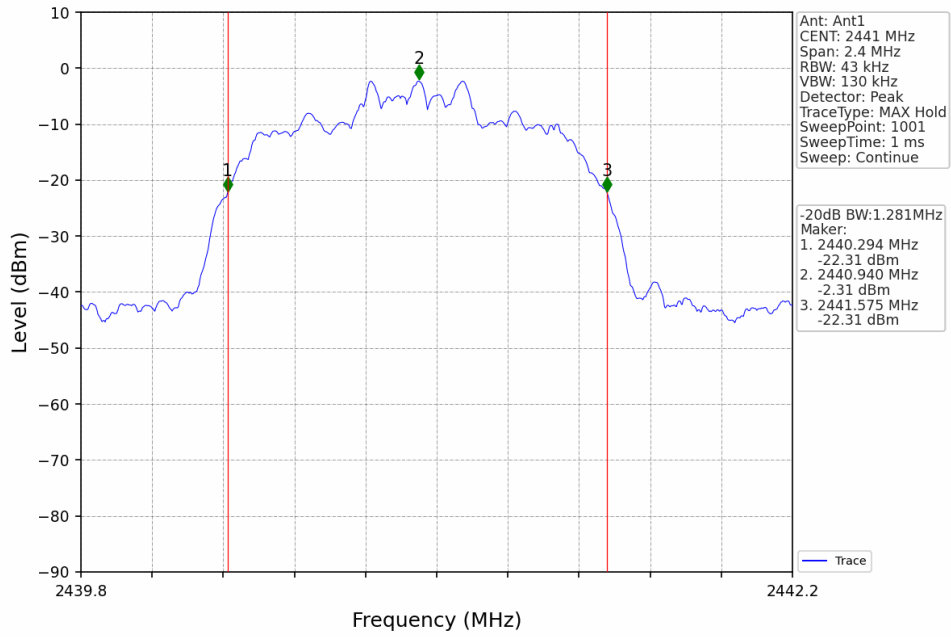
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



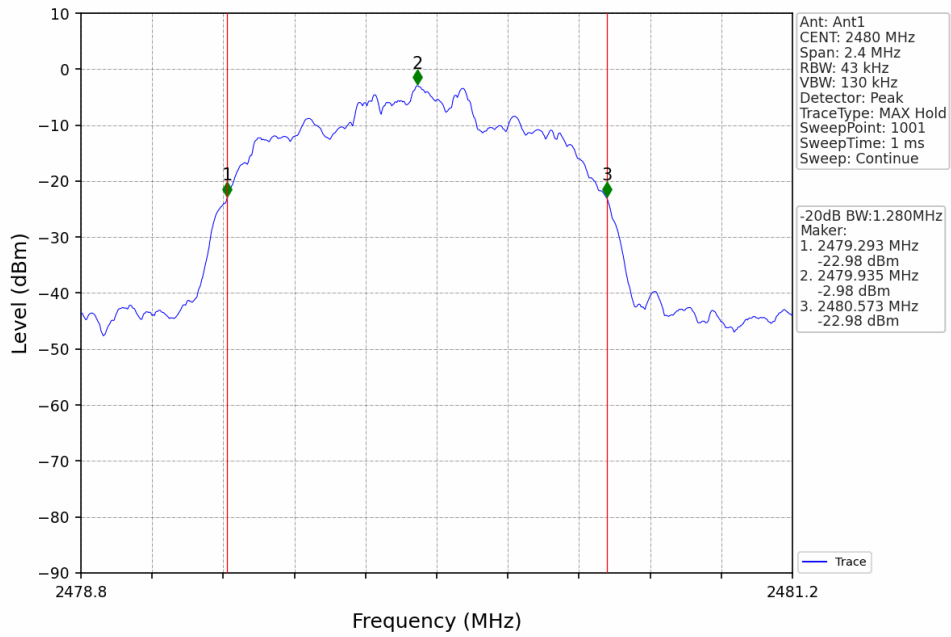
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



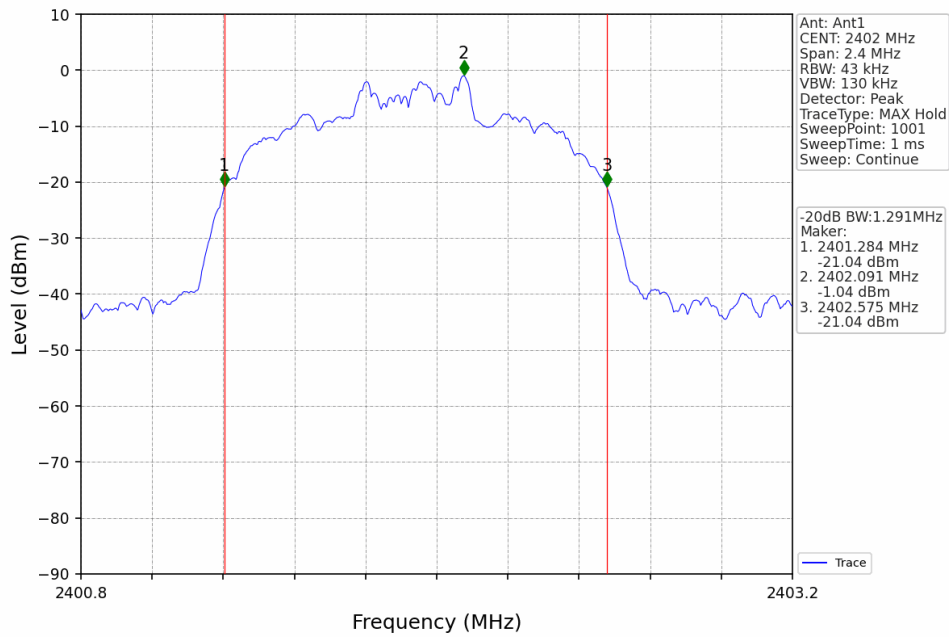
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



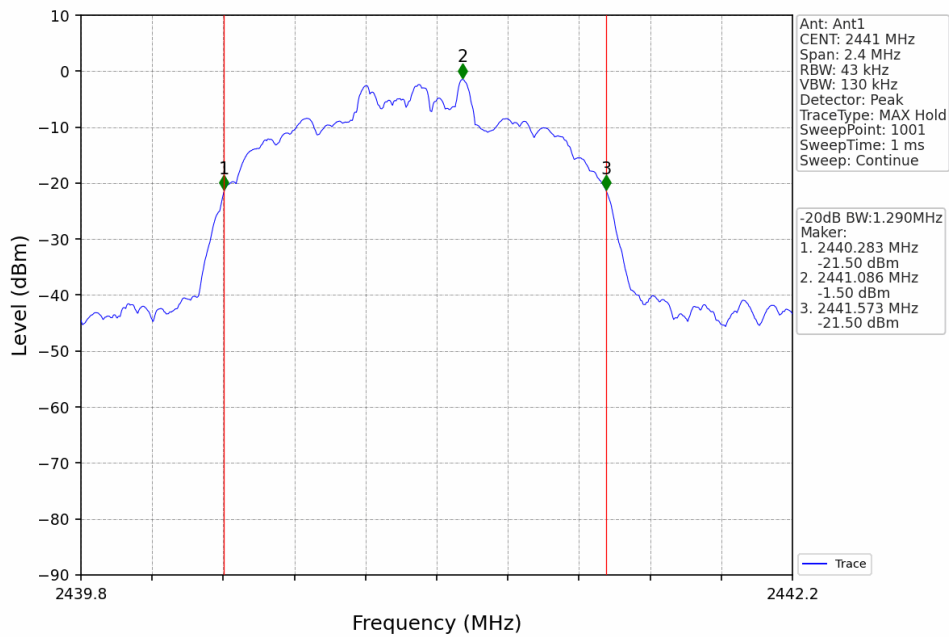
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

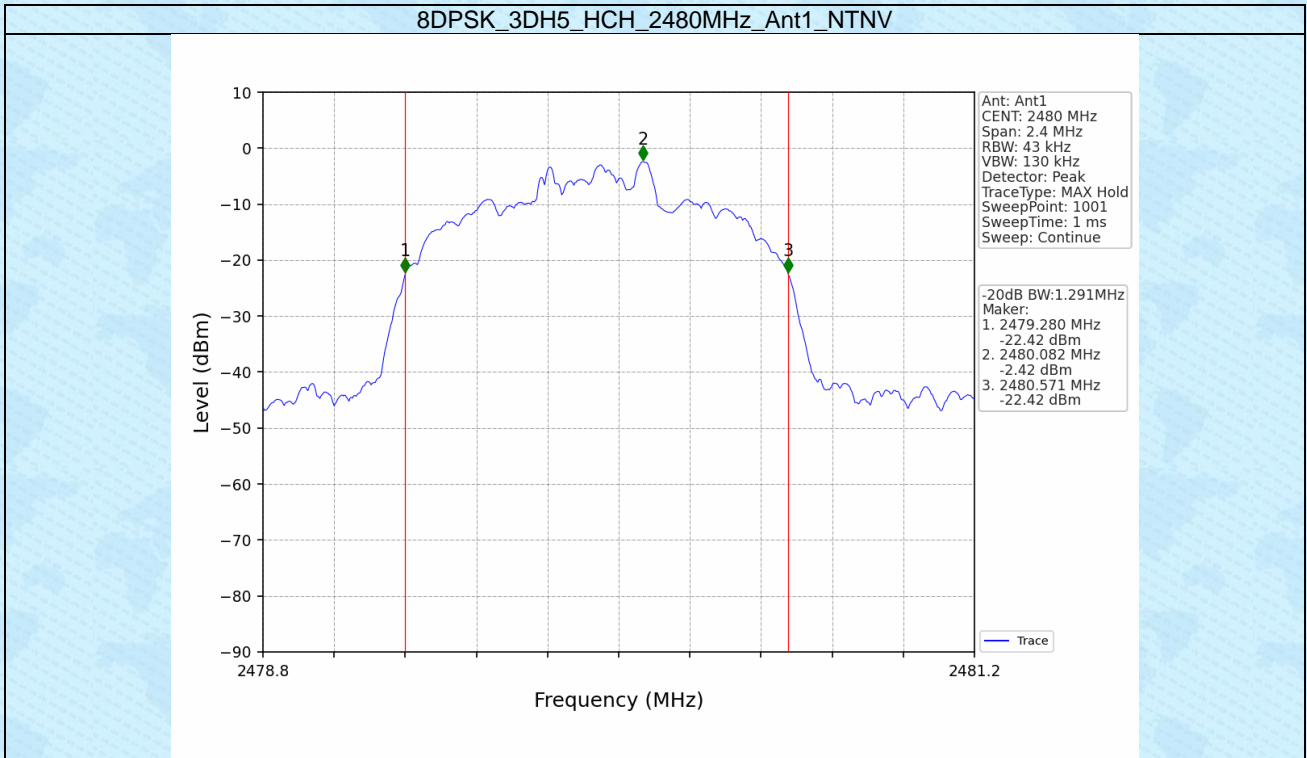


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





## 2. Maximum Conducted Output Power

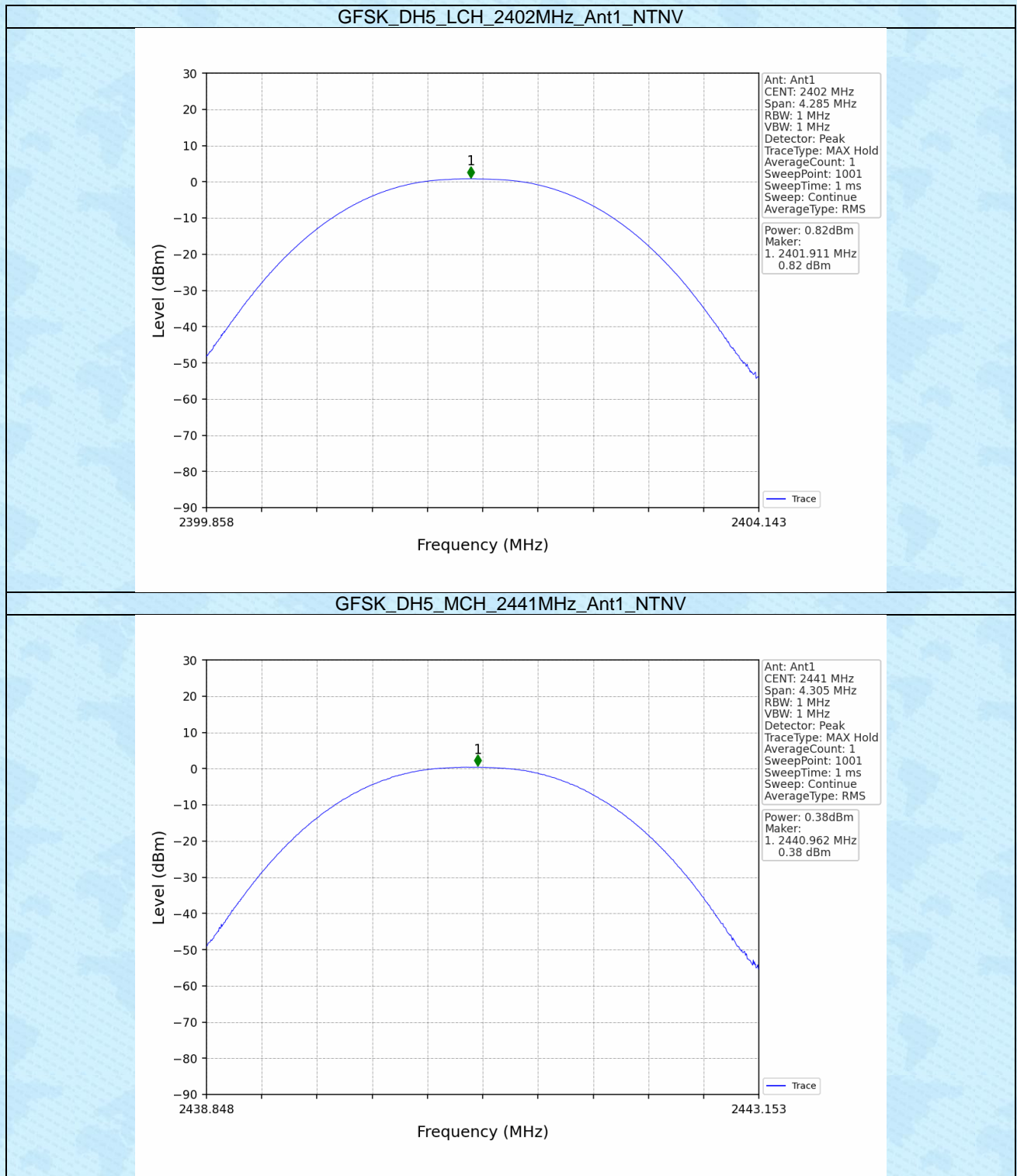
### 2.1 Power

#### 2.1.1 Test Result

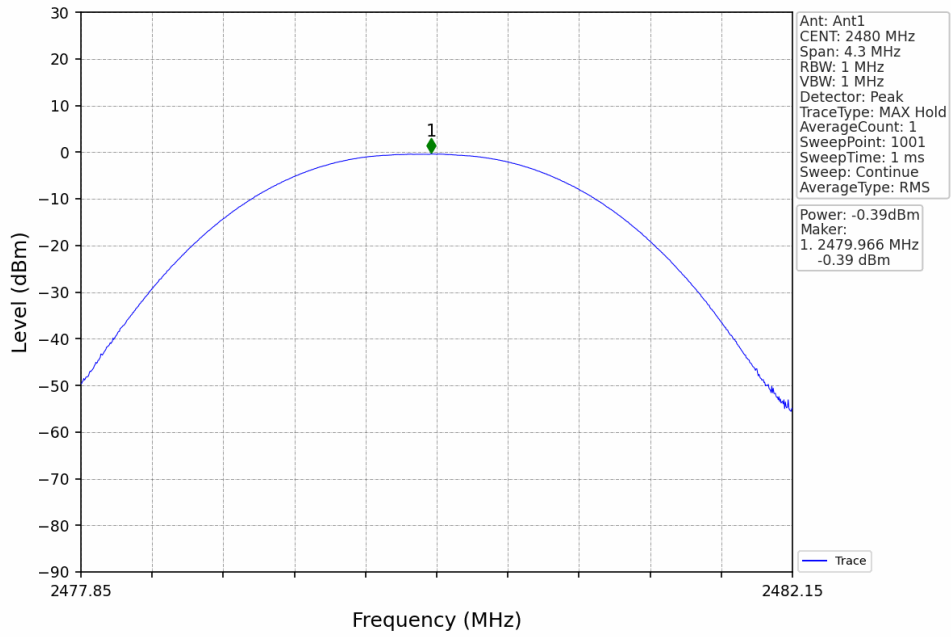
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	0.82	<=20.97	Pass
		2441	DH5	0.38	<=20.97	Pass
		2480	DH5	-0.39	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	0.96	<=20.97	Pass
		2441	2DH5	0.28	<=20.97	Pass
		2480	2DH5	-0.39	<=20.97	Pass
8DPSK	SISO	2402	3DH5	0.95	<=20.97	Pass
		2441	3DH5	0.28	<=20.97	Pass
		2480	3DH5	-0.40	<=20.97	Pass

Note1: Antenna Gain: Ant1: 3.19dBi;

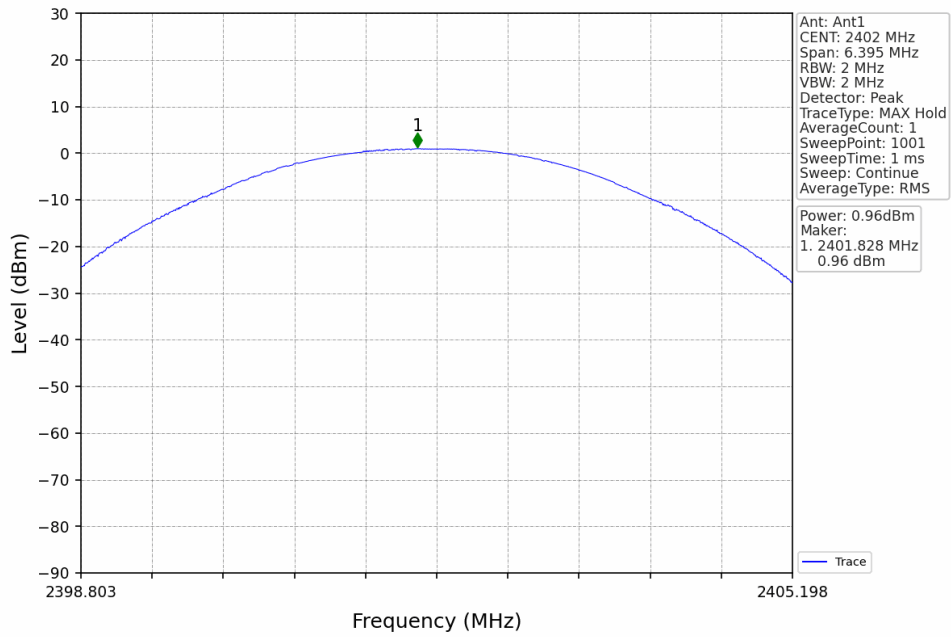
## 2.1.2 Test Graph



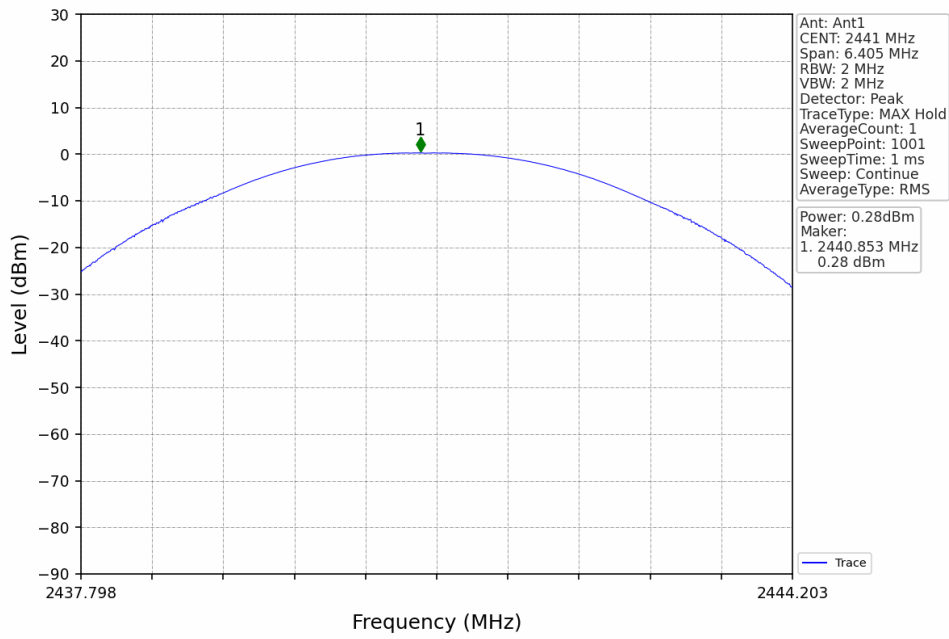
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



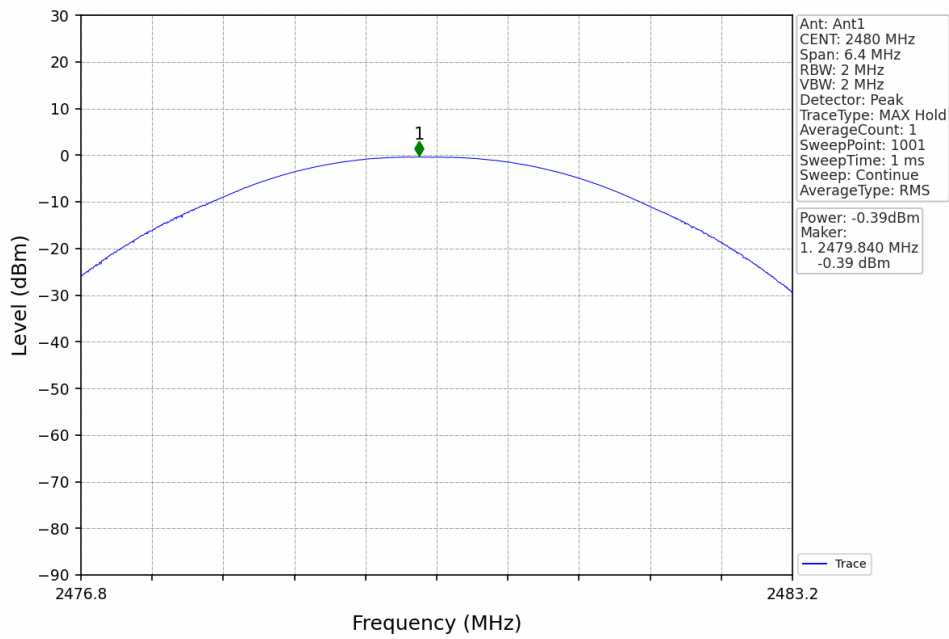
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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

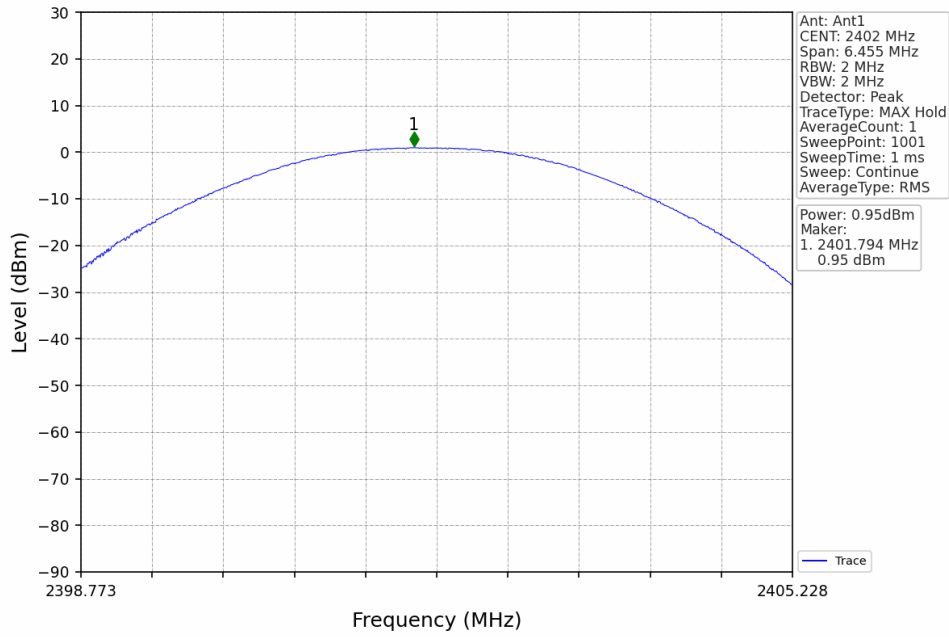


Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

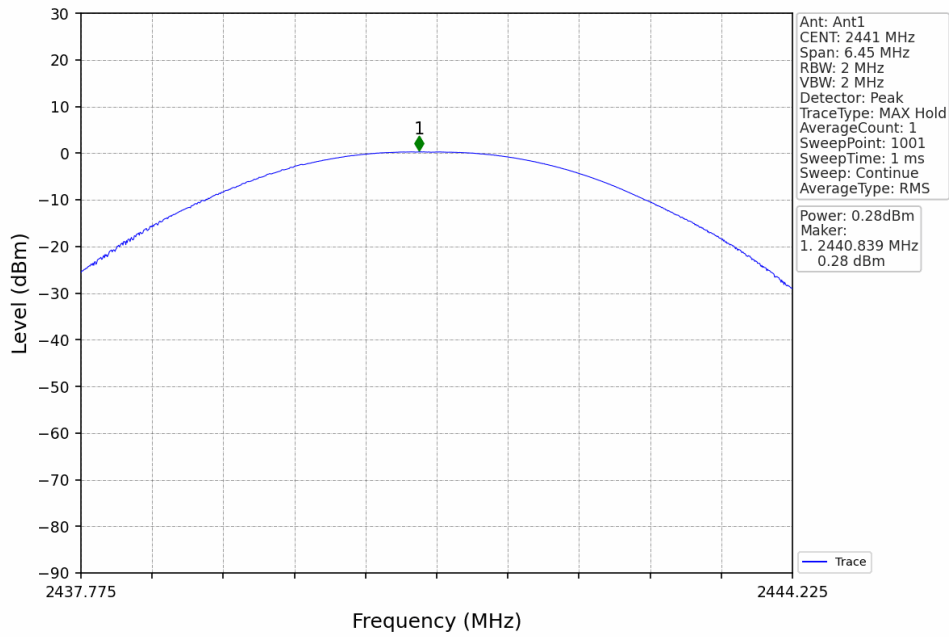




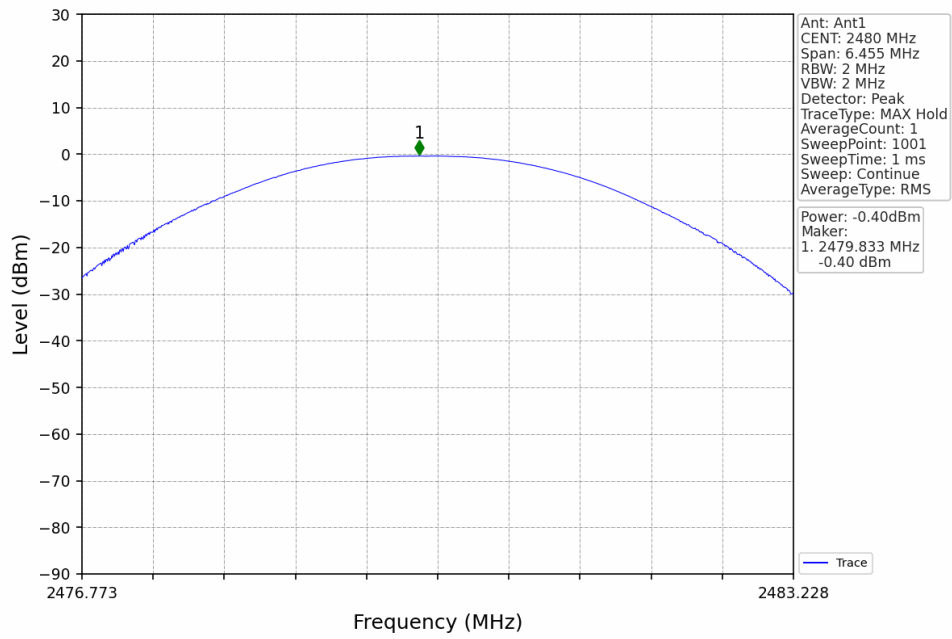
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



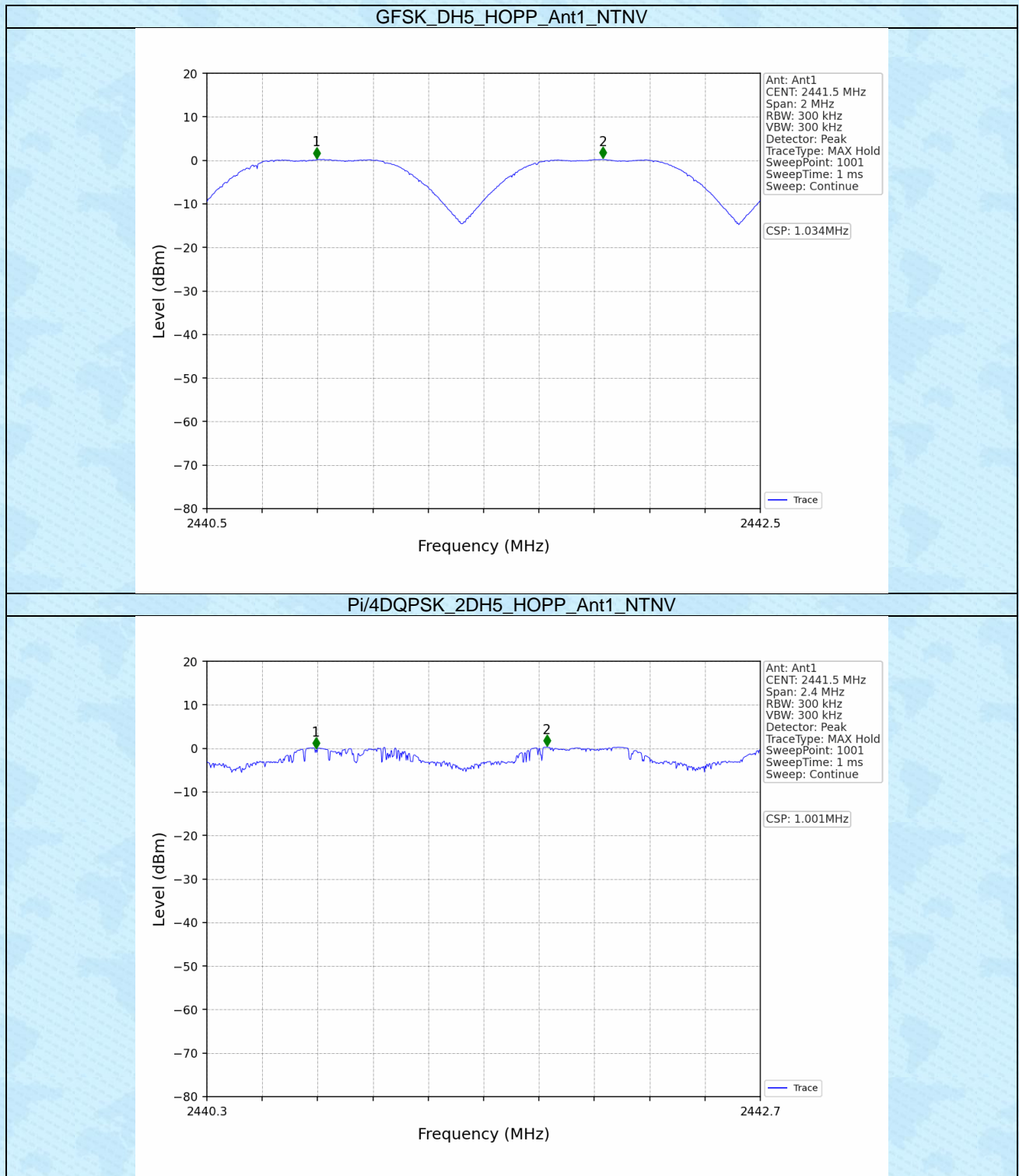
## 3. Carrier Frequency Separation

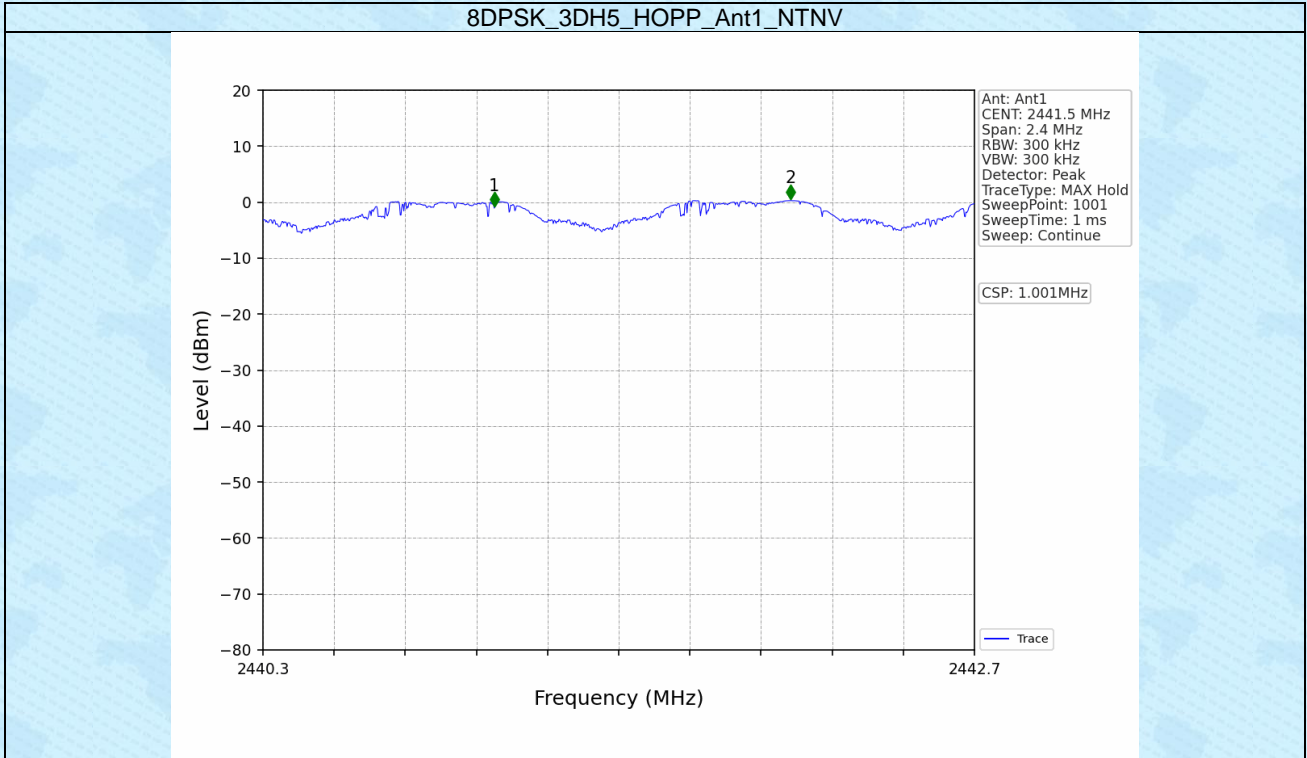
### 3.1 Ant1

#### 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	1.034	0.861	$\geq 0.574$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.281	$\geq 0.854$	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.291	$\geq 0.861$	Pass

## 3.1.2 Test Graph





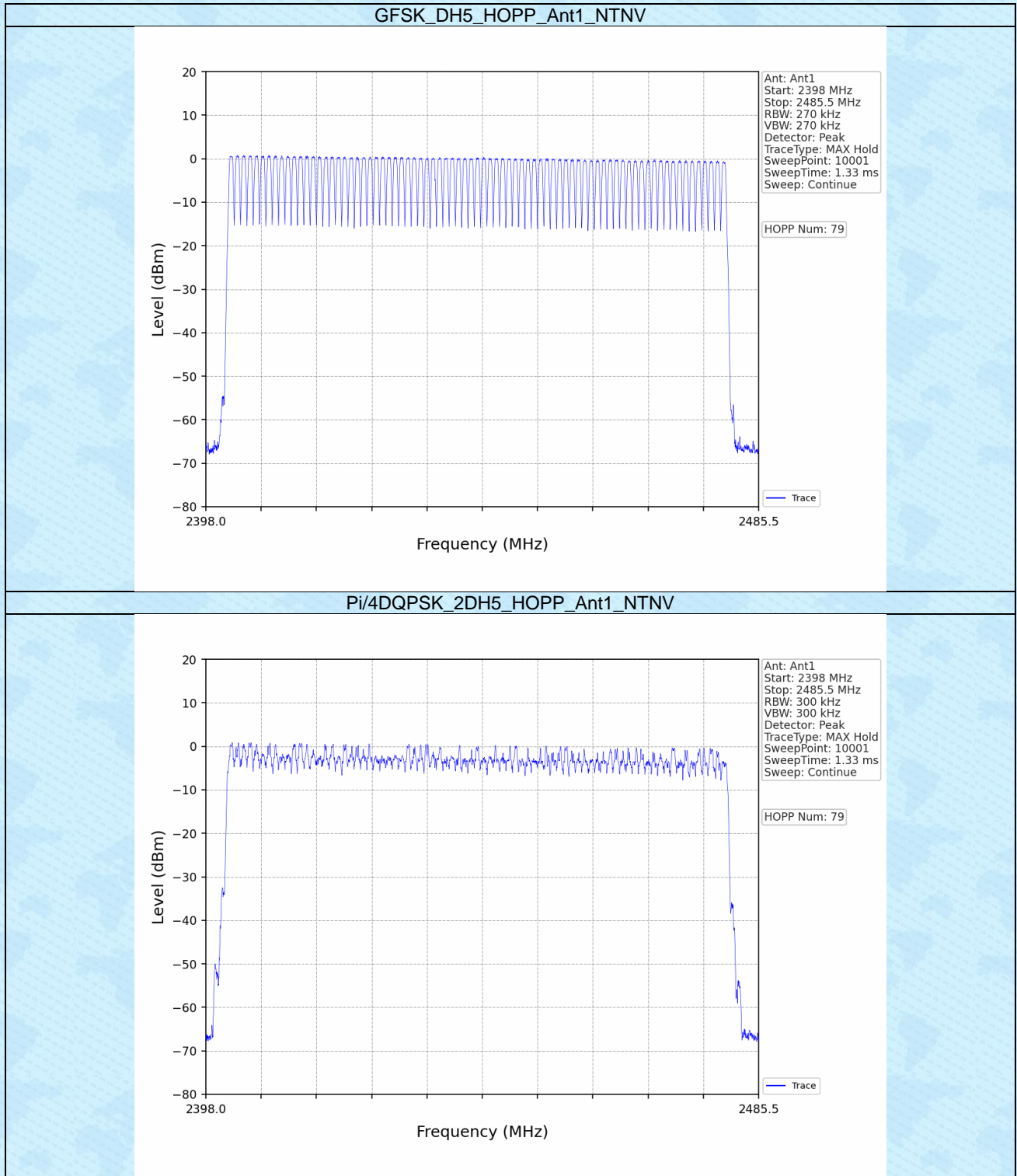
## 4. Number of Hopping Frequencies

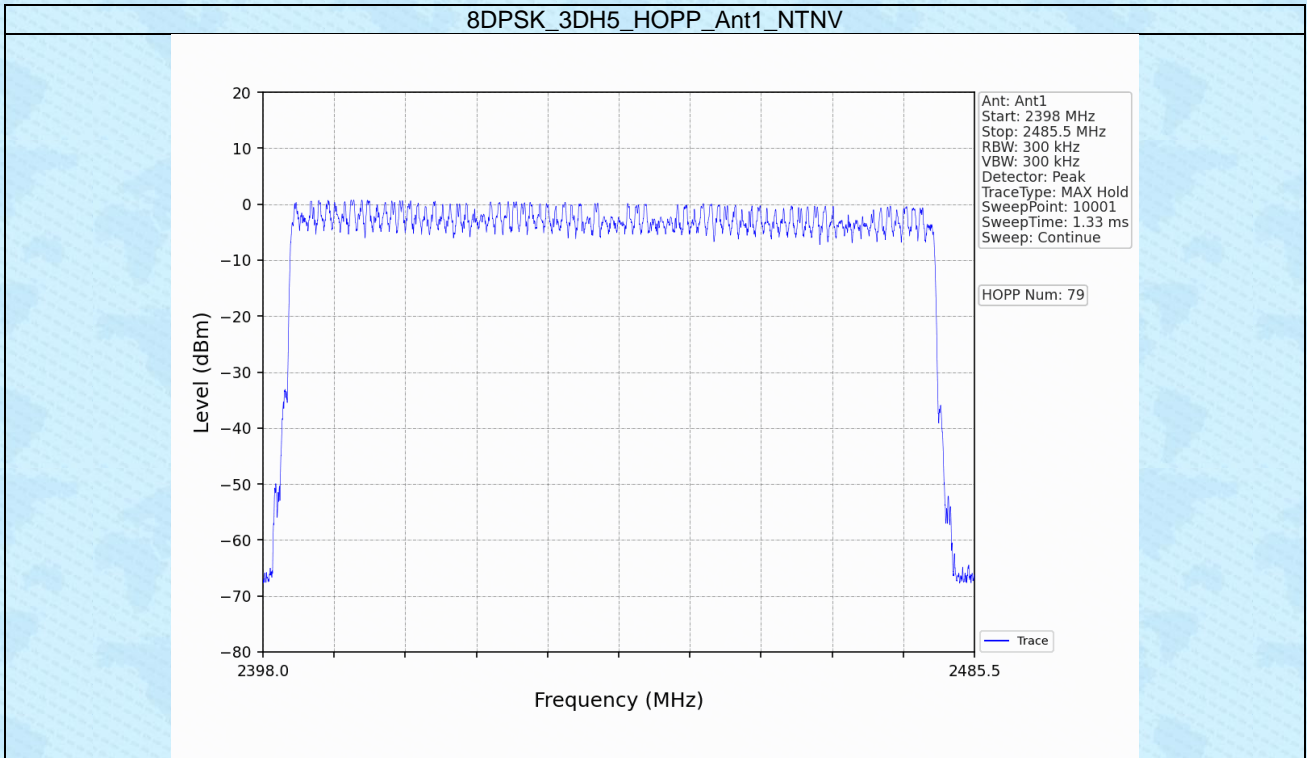
### 4.1 HoppNum

#### 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







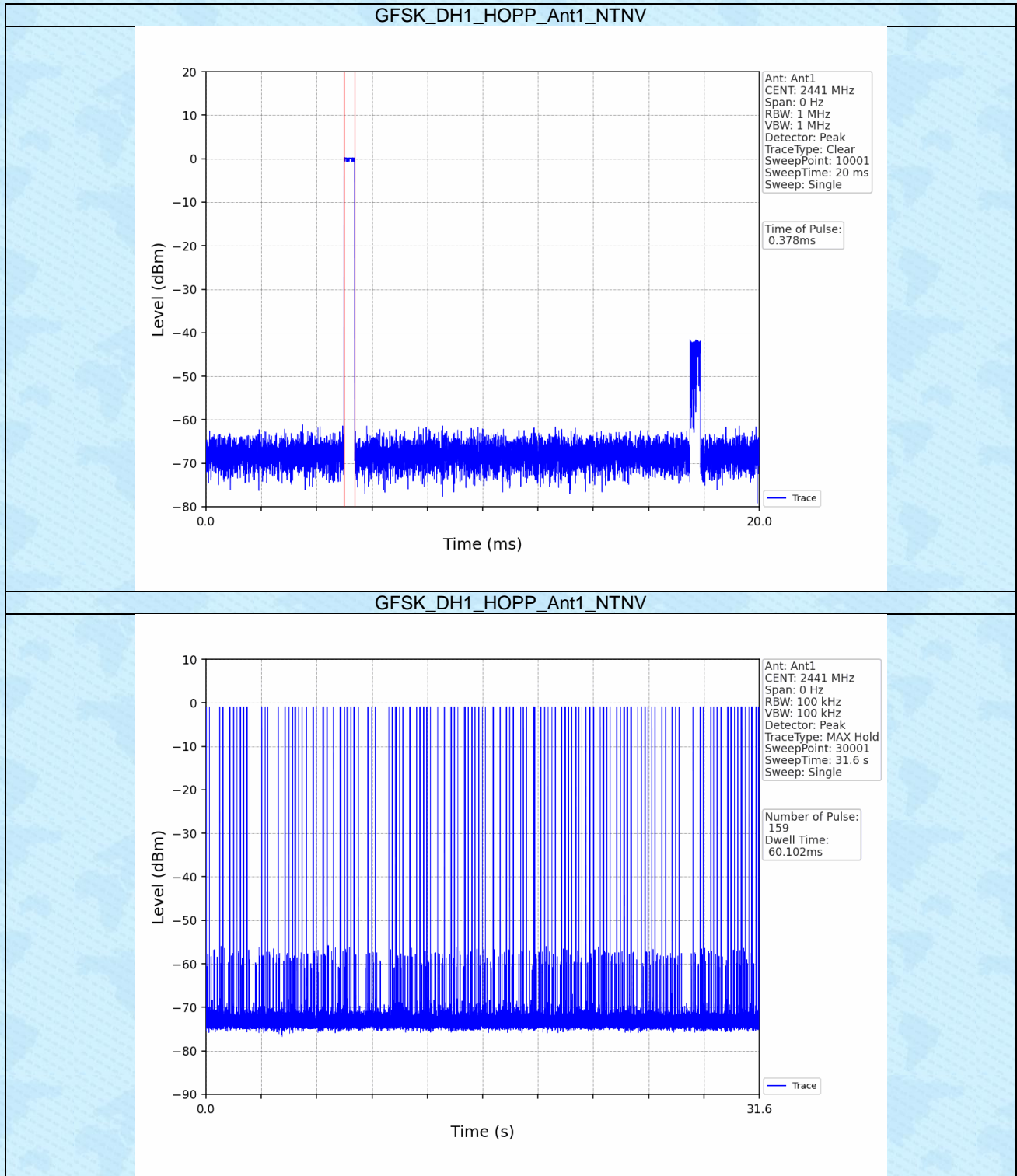
## 5. Time of Occupancy (Dwell Time)

### 5.1 Ant1

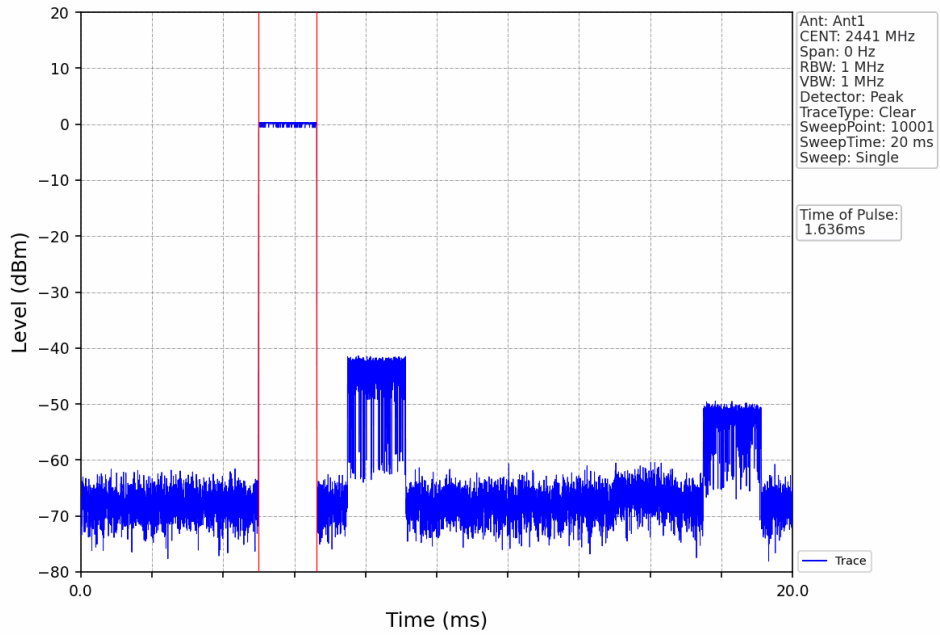
#### 5.1.1 Test Result

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	0.378	31.600	159	60.102	<=400	Pass
			DH3	1.636	31.600	163	266.668	<=400	Pass
			DH5	2.892	31.600	74	214.008	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.388	31.600	157	60.916	<=400	Pass
			2DH3	1.638	31.600	165	270.270	<=400	Pass
			2DH5	2.894	31.600	78	225.732	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.388	31.600	156	60.528	<=400	Pass
			3DH3	1.636	31.600	153	250.308	<=400	Pass
			3DH5	2.898	31.600	83	240.534	<=400	Pass

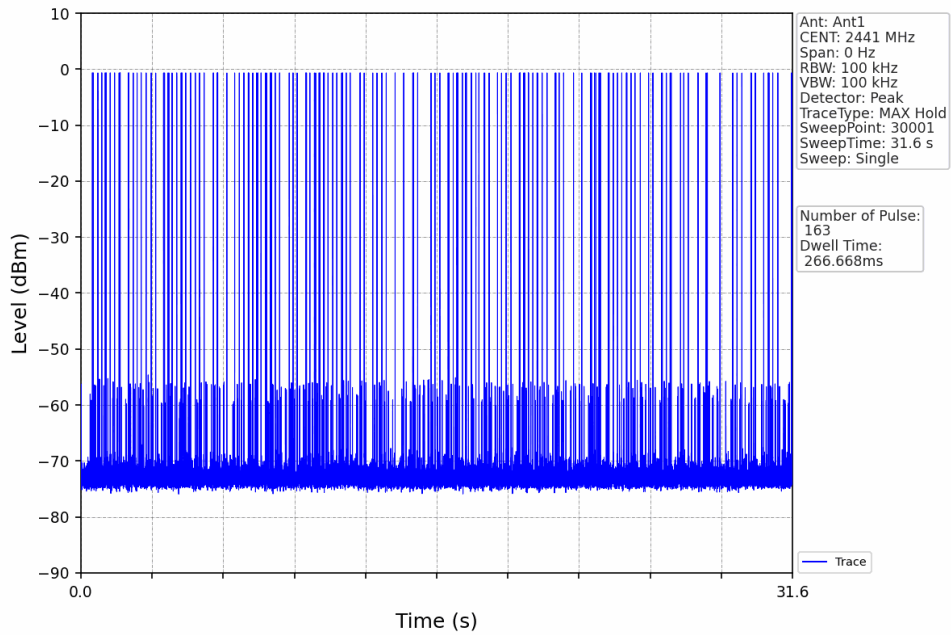
## 5.1.2 Test Graph



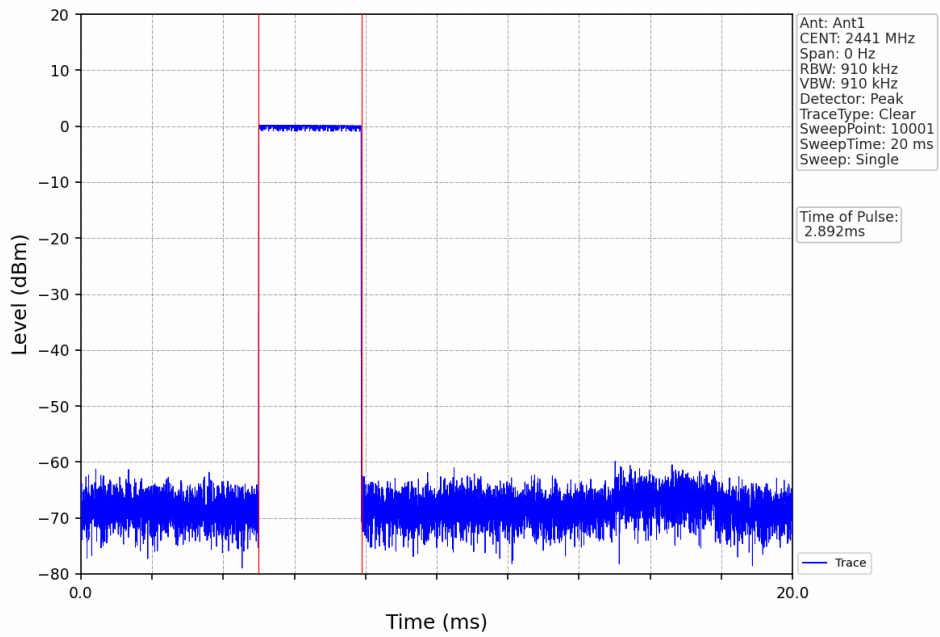
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



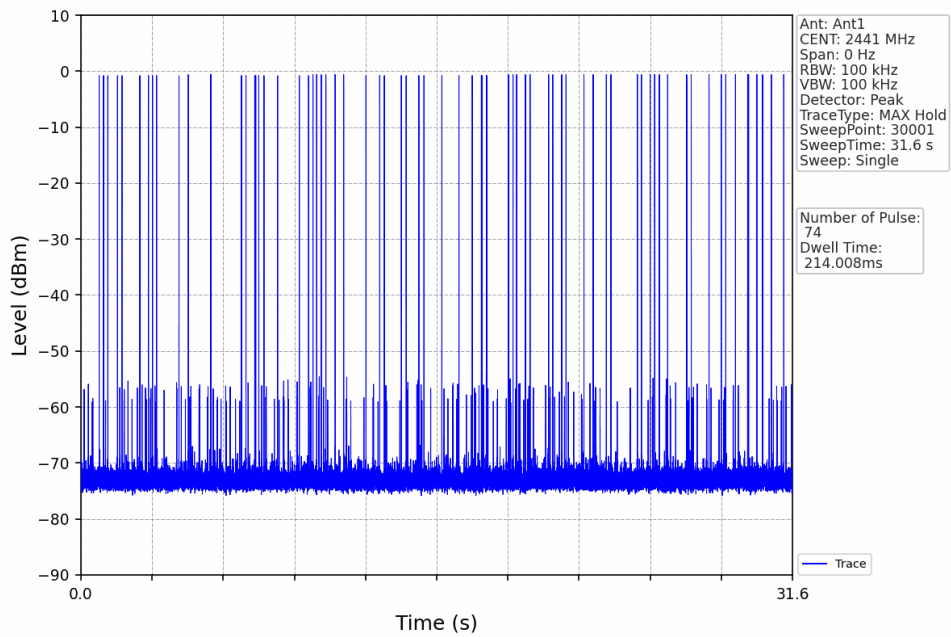
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



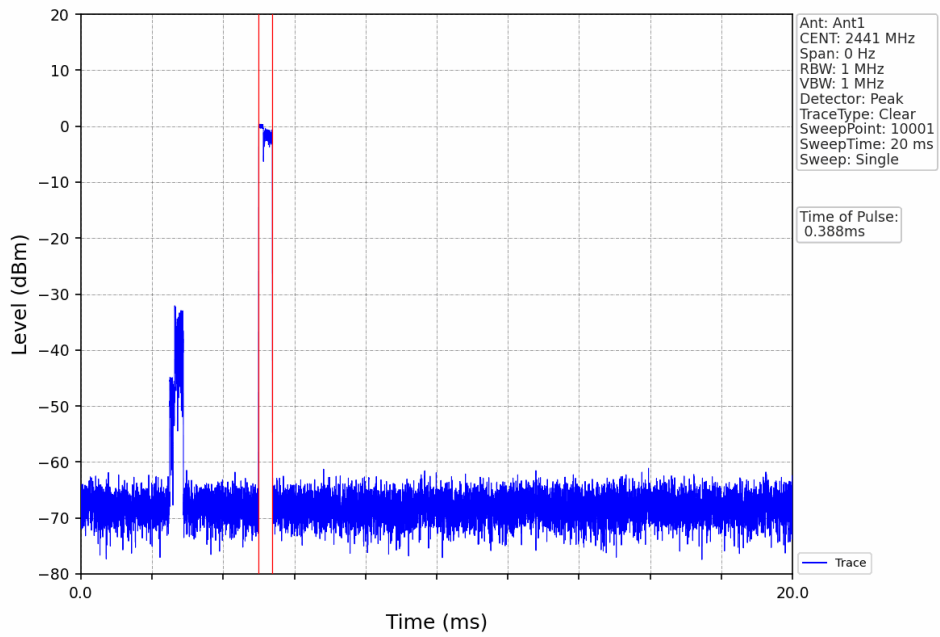
GFSK\_DH5\_HOPP\_Ant1\_NTNV



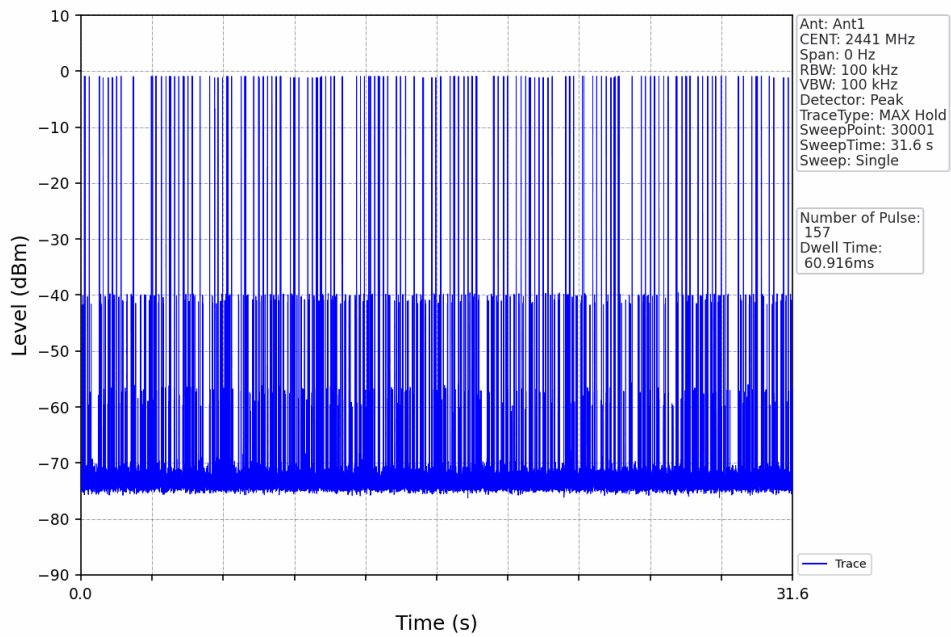
GFSK\_DH5\_HOPP\_Ant1\_NTNV



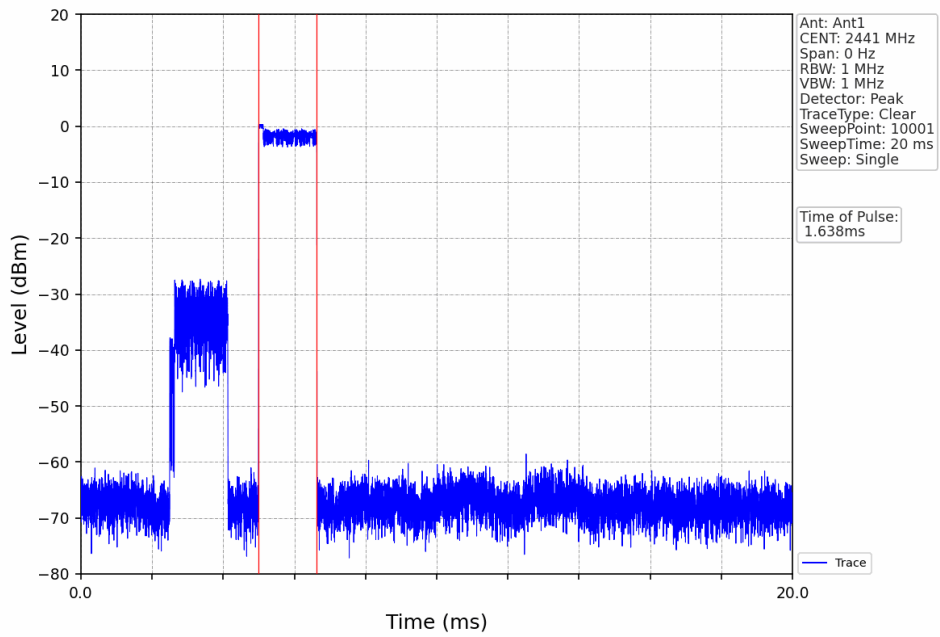
### Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



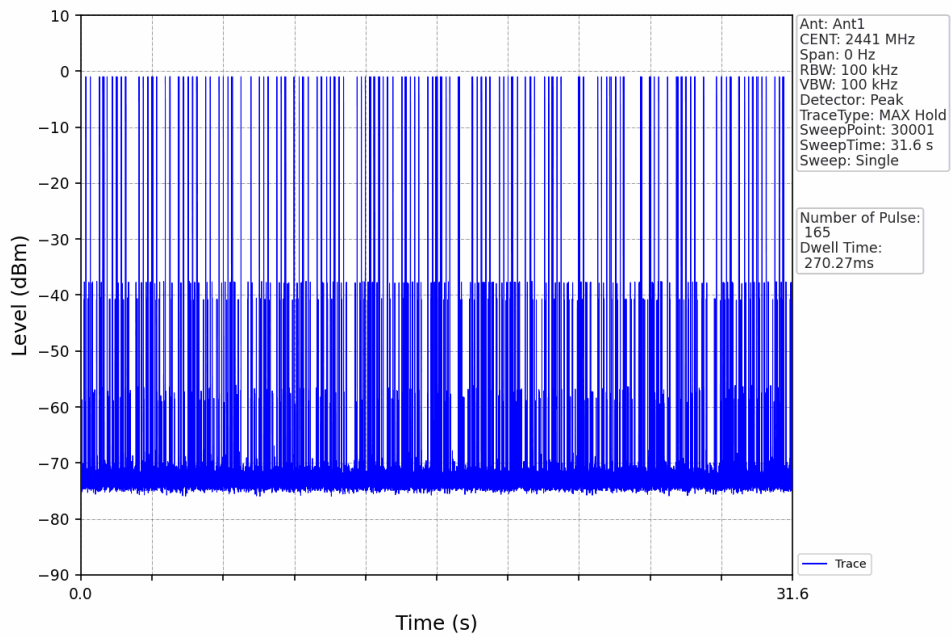
### Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



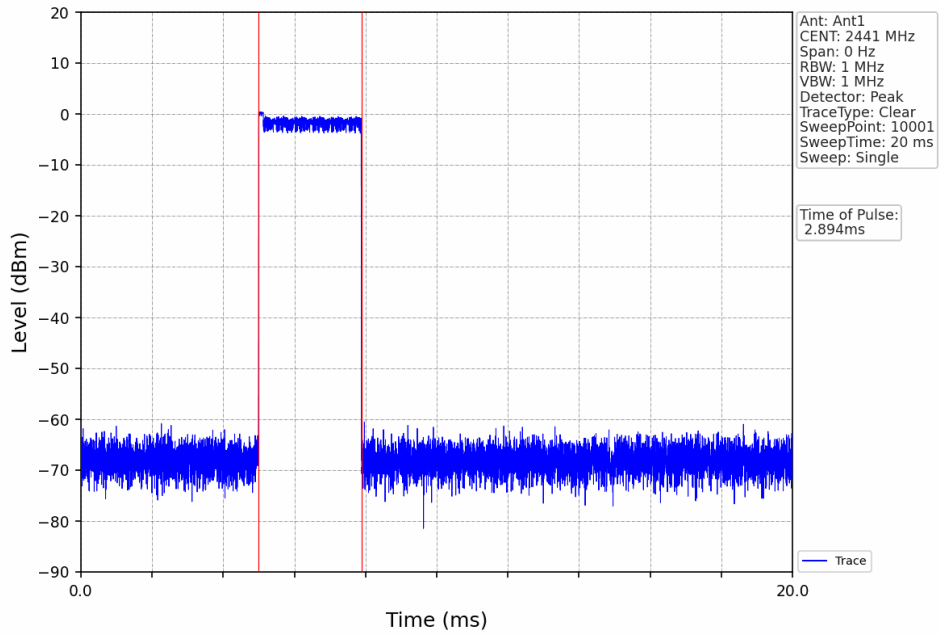
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



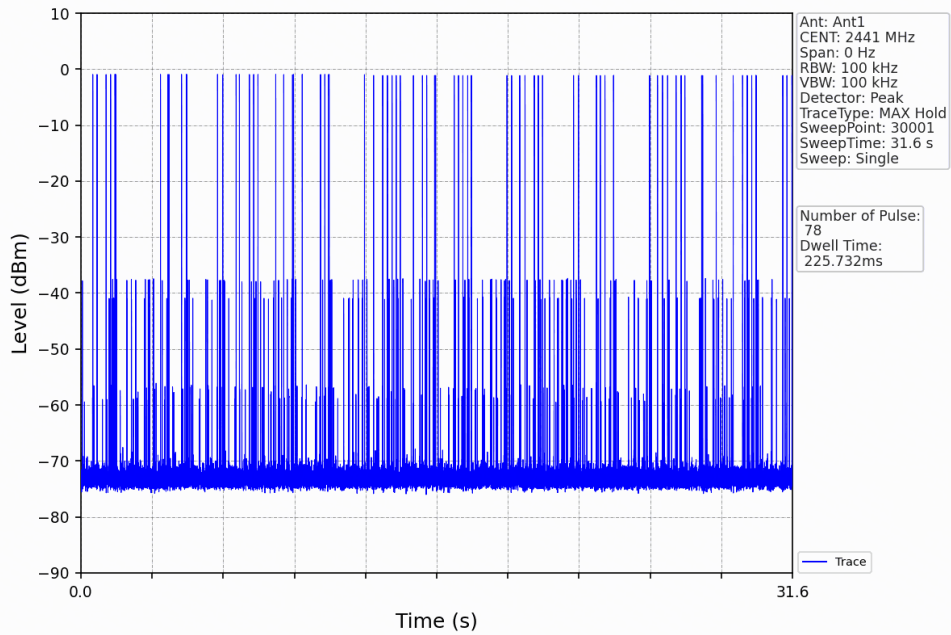
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



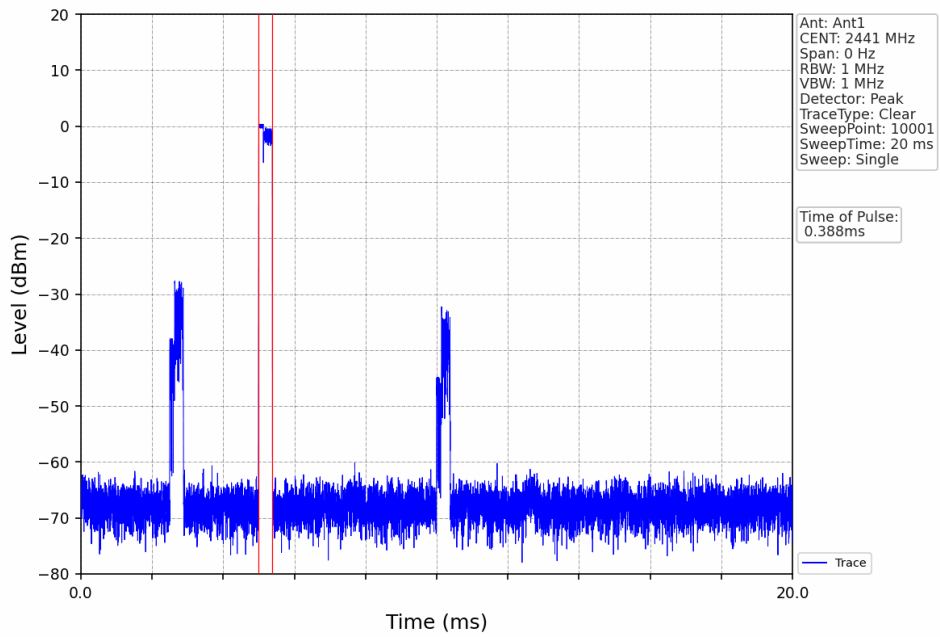
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



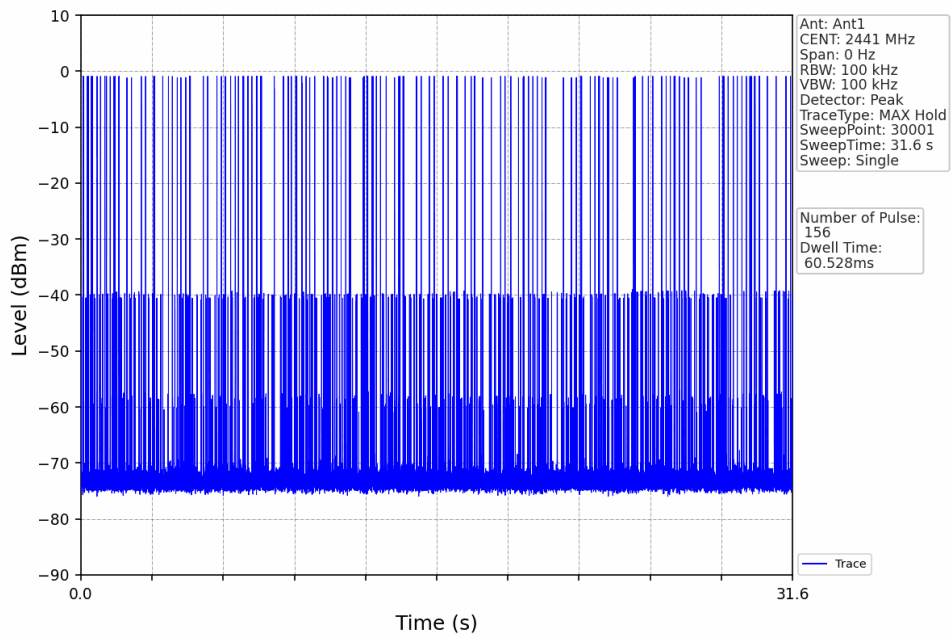
Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

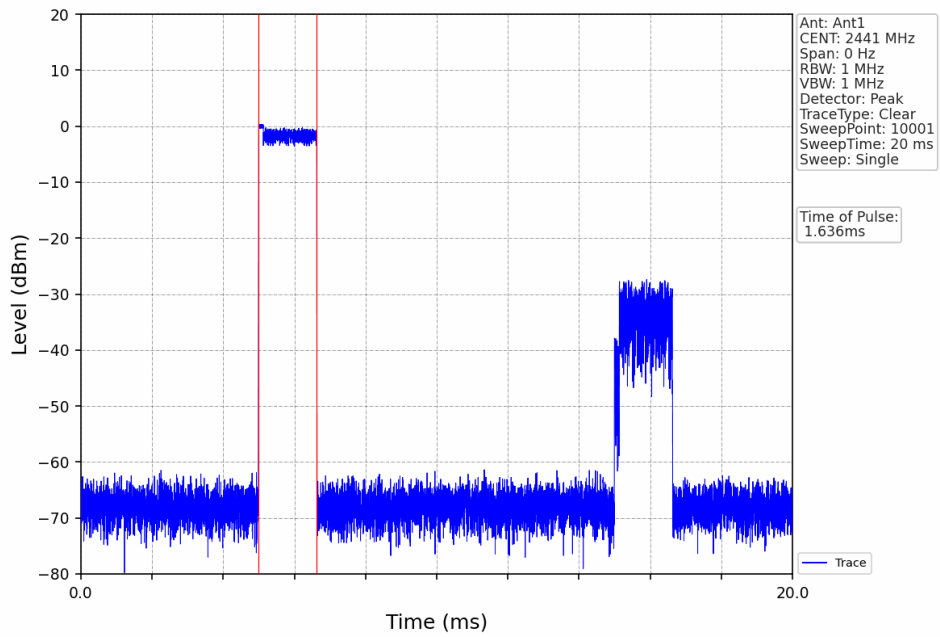


### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

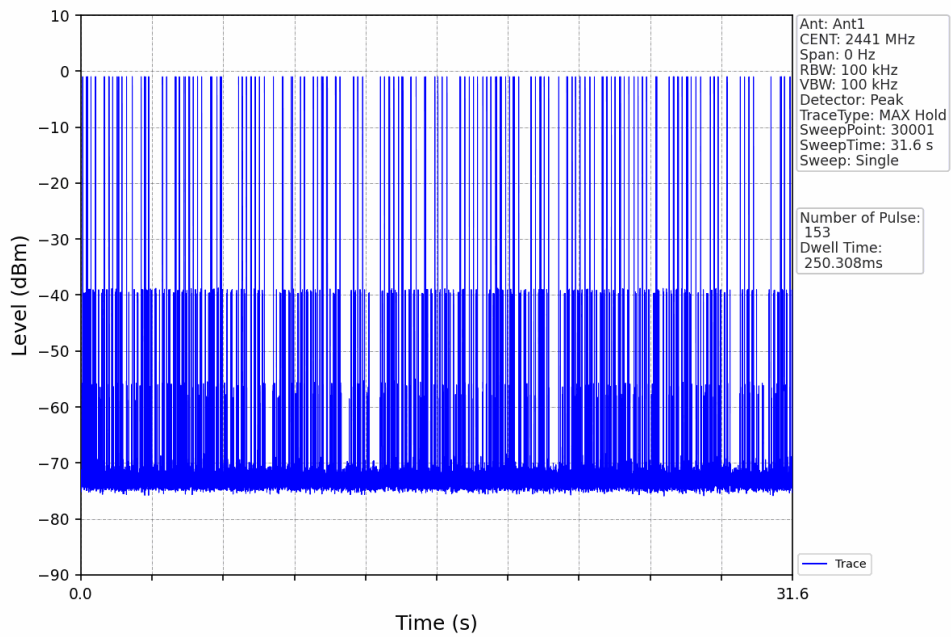




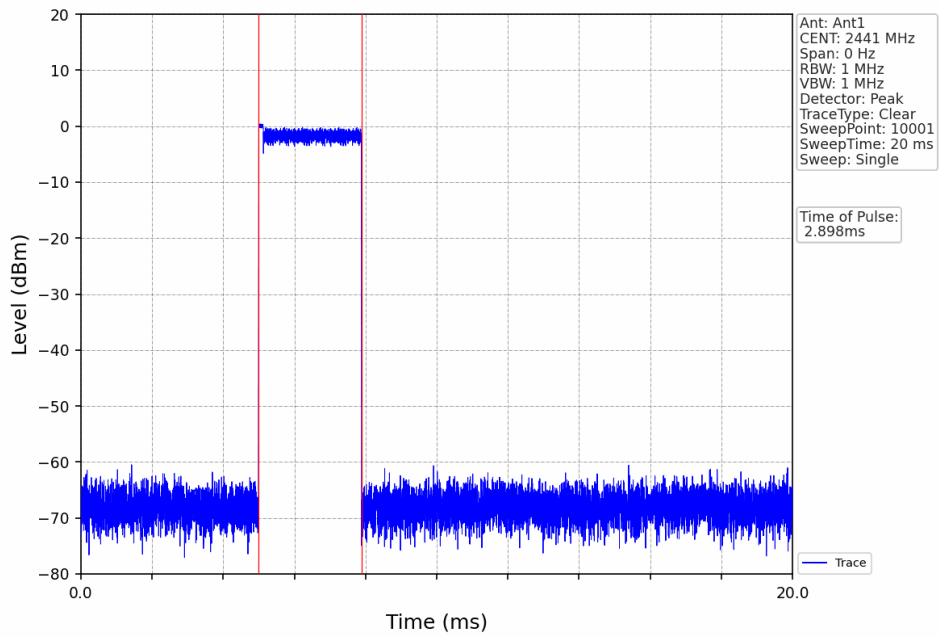
### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



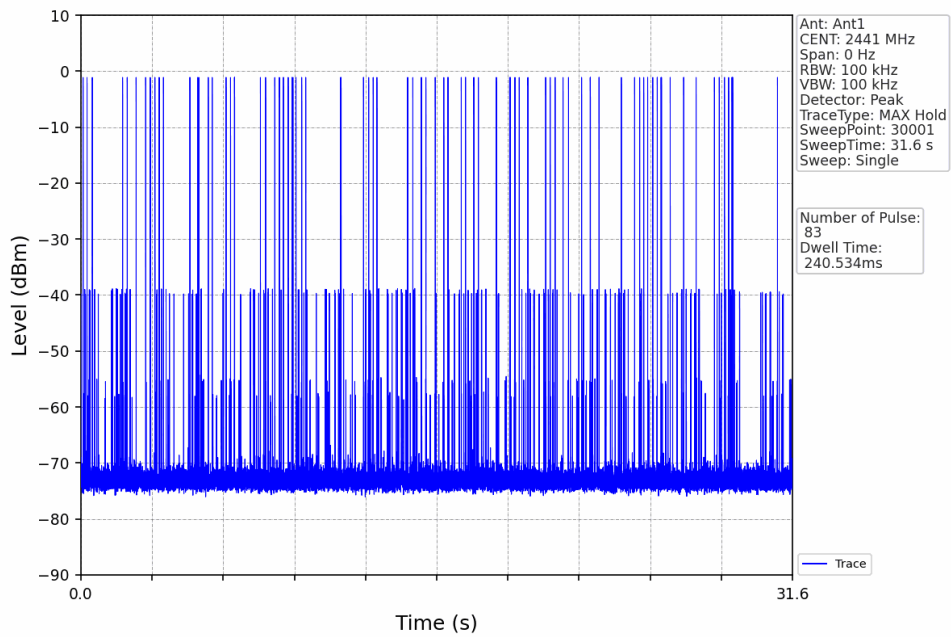
### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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

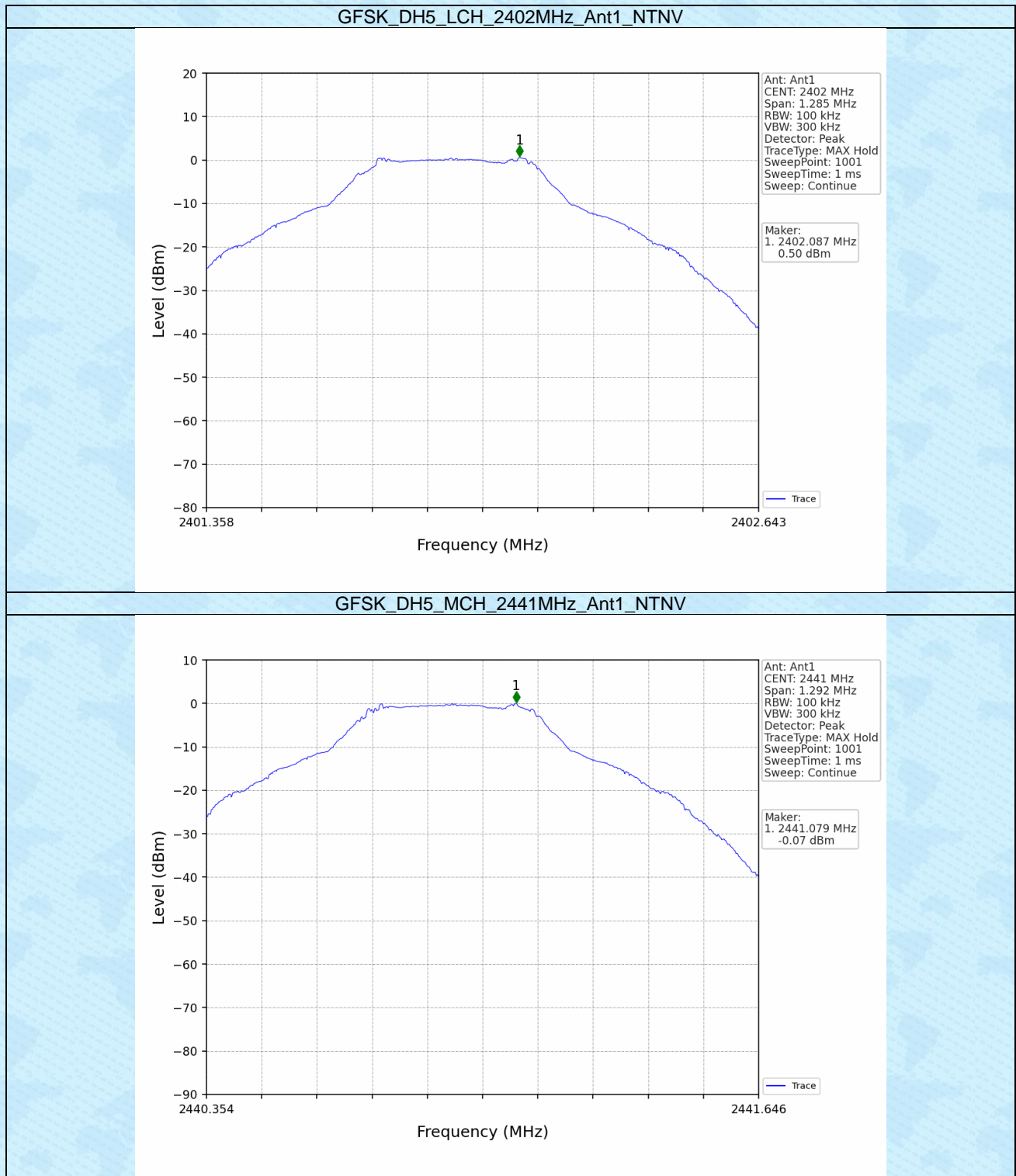
### 6.1 Ref

#### 6.1.1 Test Result

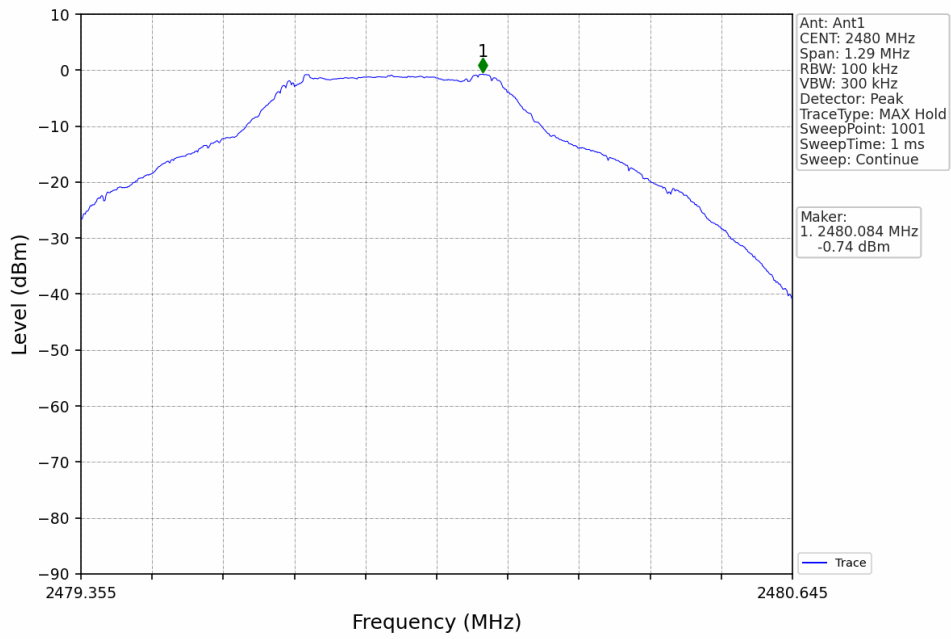
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.50
		2441	DH5	1	-0.07
		2480	DH5	1	-0.74
Pi/4DQPSK	SISO	2402	2DH5	1	0.50
		2441	2DH5	1	0.10
		2480	2DH5	1	-0.90
8DPSK	SISO	2402	3DH5	1	0.43
		2441	3DH5	1	0.09
		2480	3DH5	1	-0.60

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.

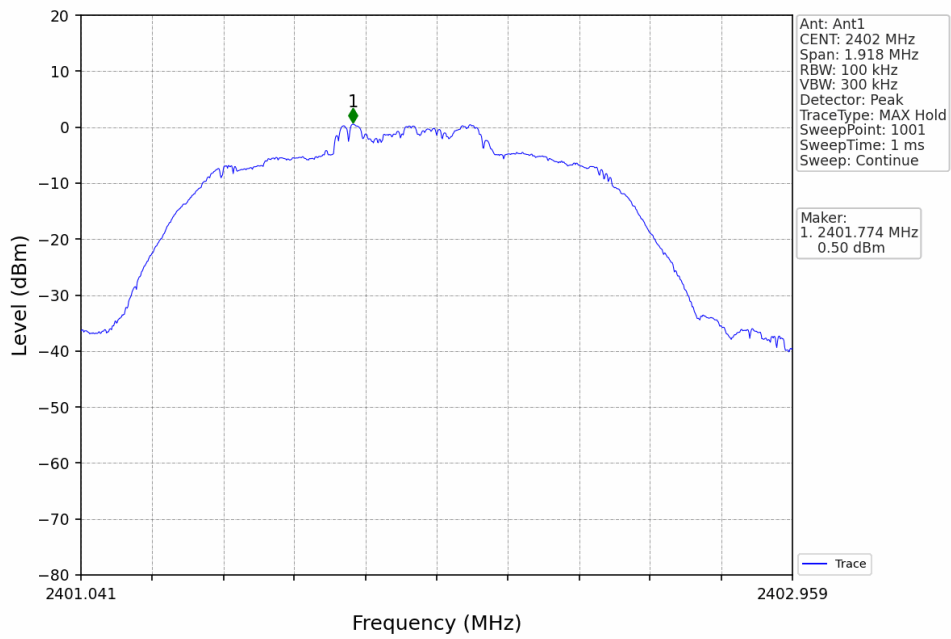
## 6.1.2 Test Graph



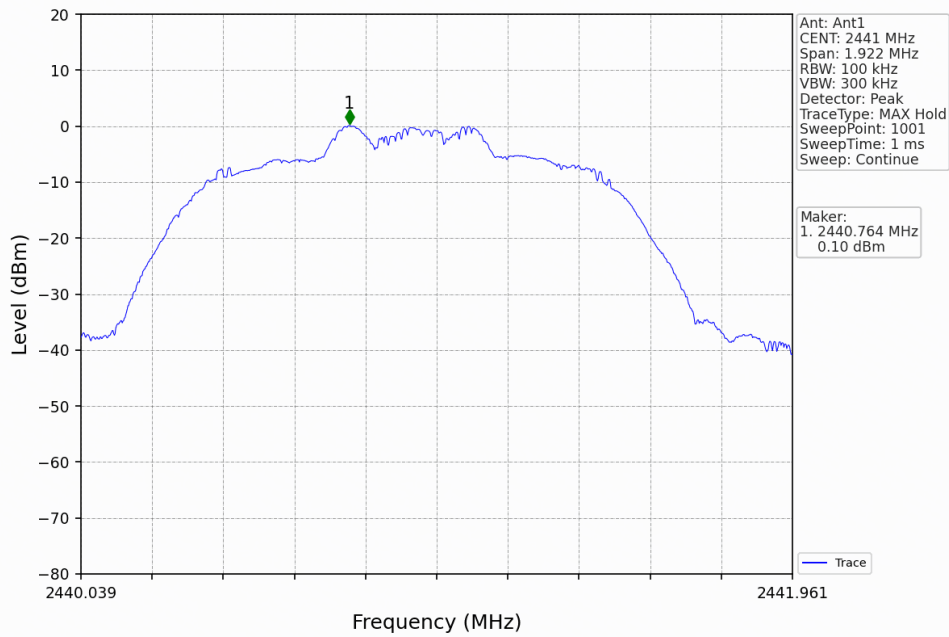
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



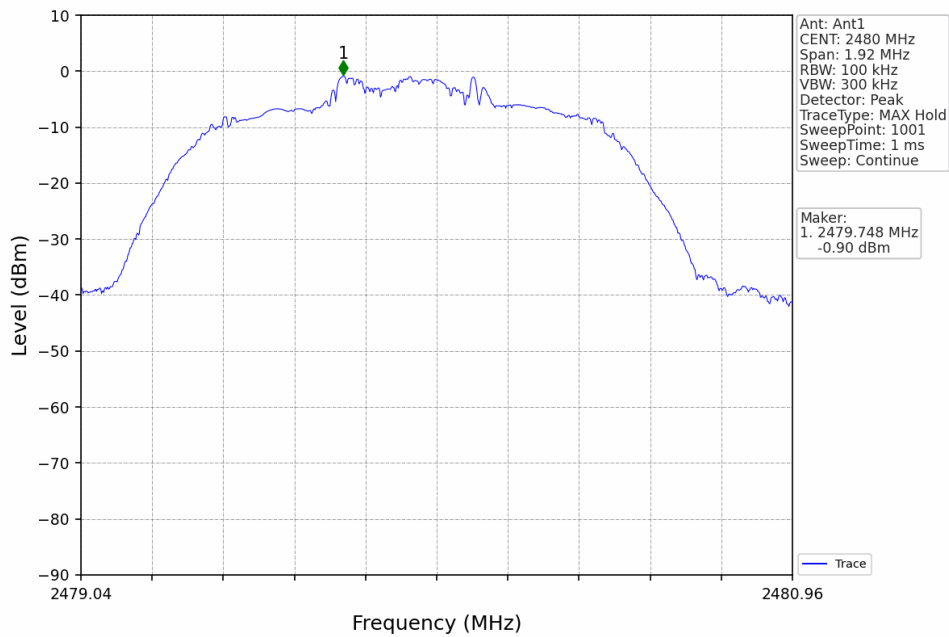
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



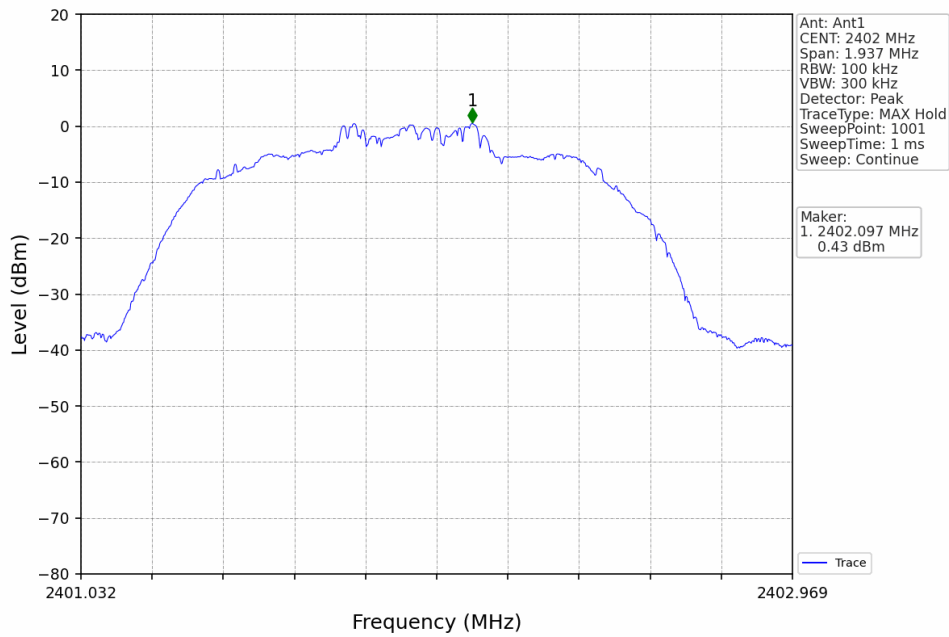
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



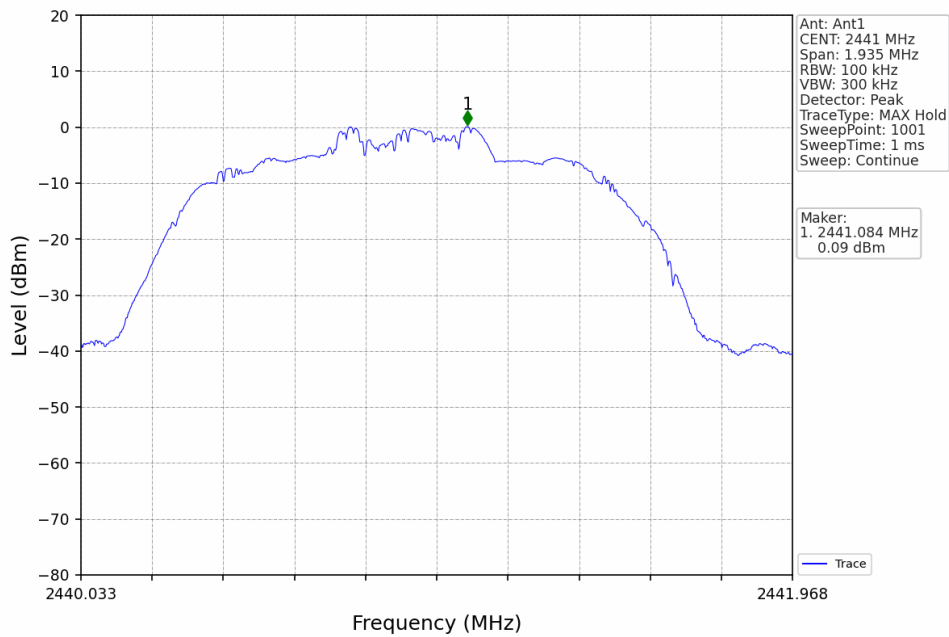
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



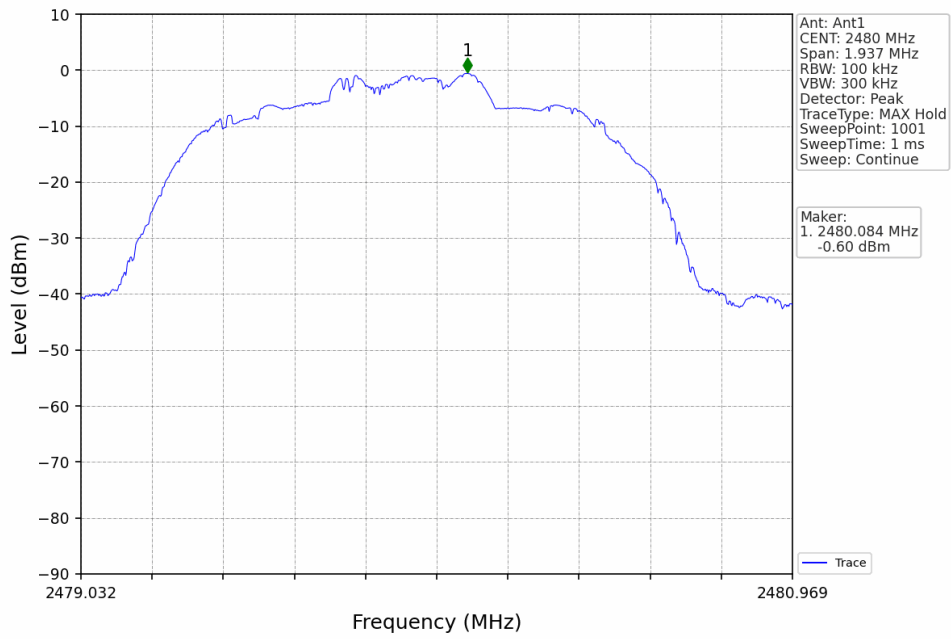
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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





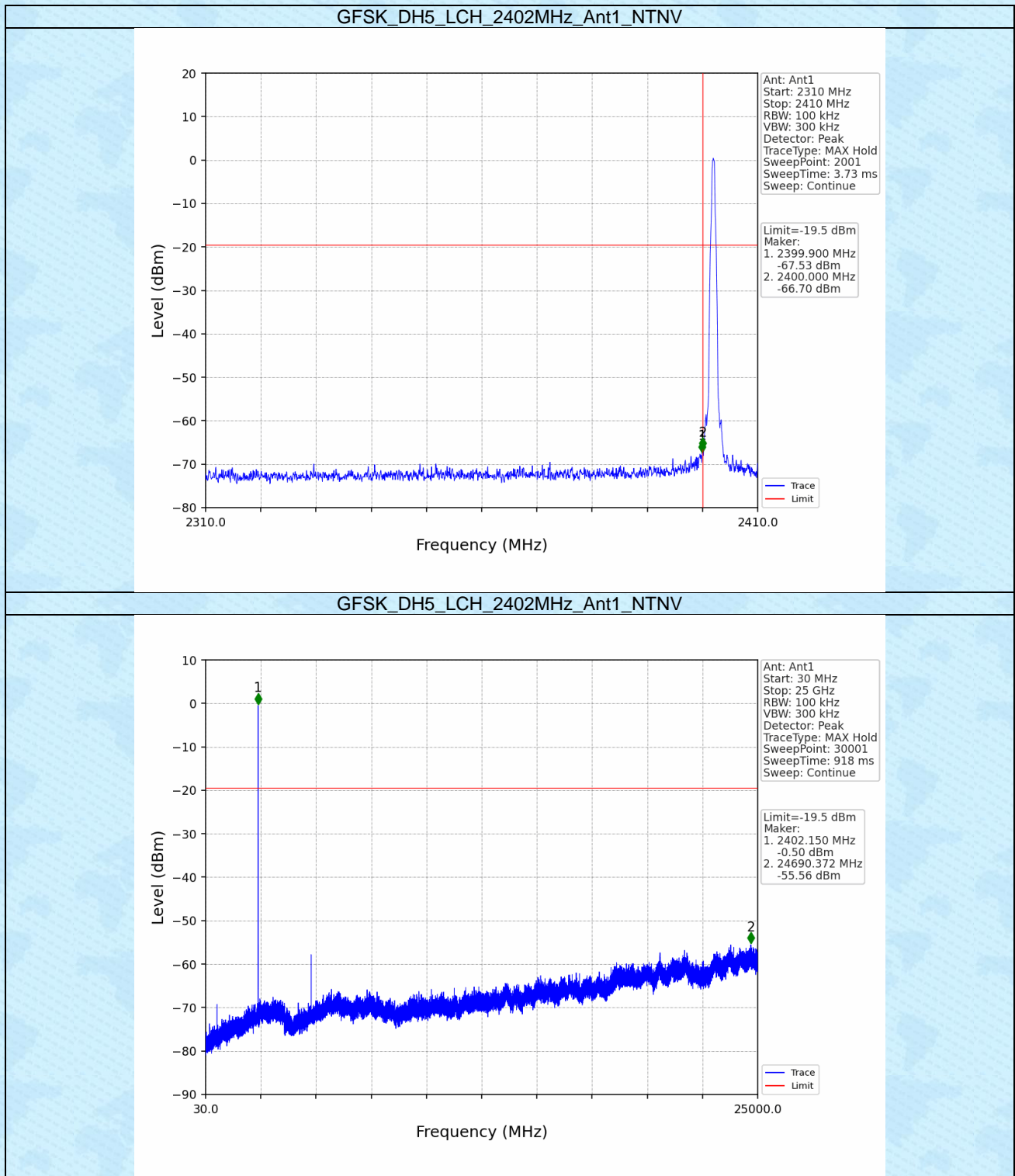
## 6.2 CSE

### 6.2.1 Test Result

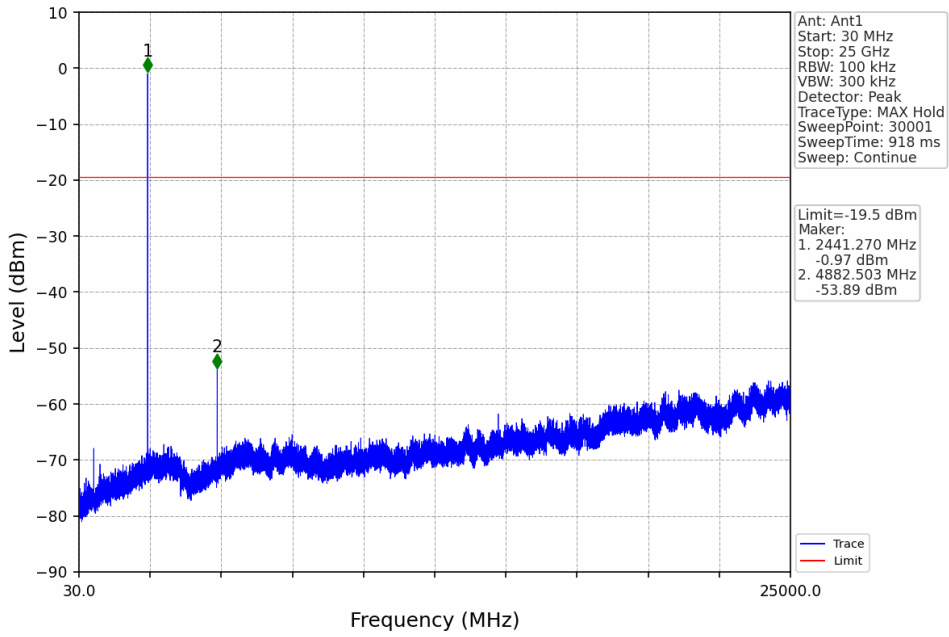
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.50	-19.50	Pass
		2441	DH5	1	0.50	-19.50	Pass
		2480	DH5	1	0.50	-19.50	Pass
		HOPP	DH5	1	0.50	-19.50	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	0.50	-19.50	Pass
		2441	2DH5	1	0.50	-19.50	Pass
		2480	2DH5	1	0.50	-19.50	Pass
		HOPP	2DH5	1	0.50	-19.50	Pass
8DPSK	SISO	2402	3DH5	1	0.43	-19.57	Pass
		2441	3DH5	1	0.43	-19.57	Pass
		2480	3DH5	1	0.43	-19.57	Pass
		HOPP	3DH5	1	0.43	-19.57	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.

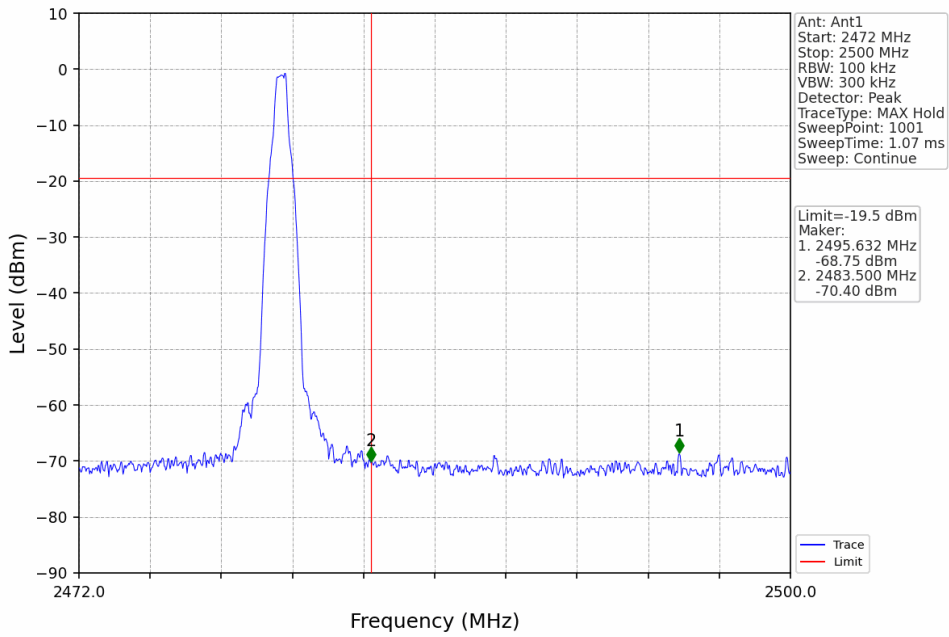
## 6.2.2 Test Graph



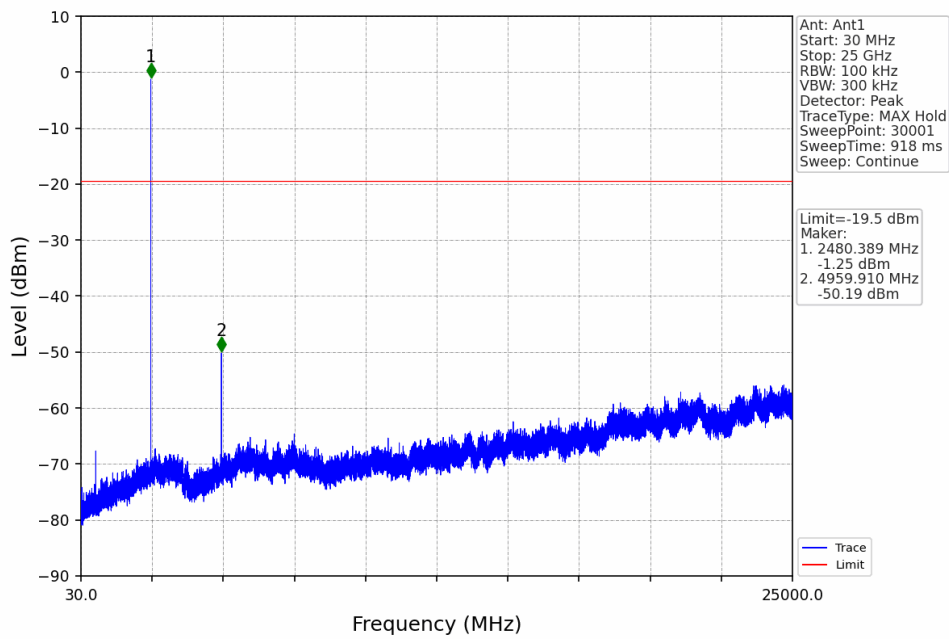
### GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



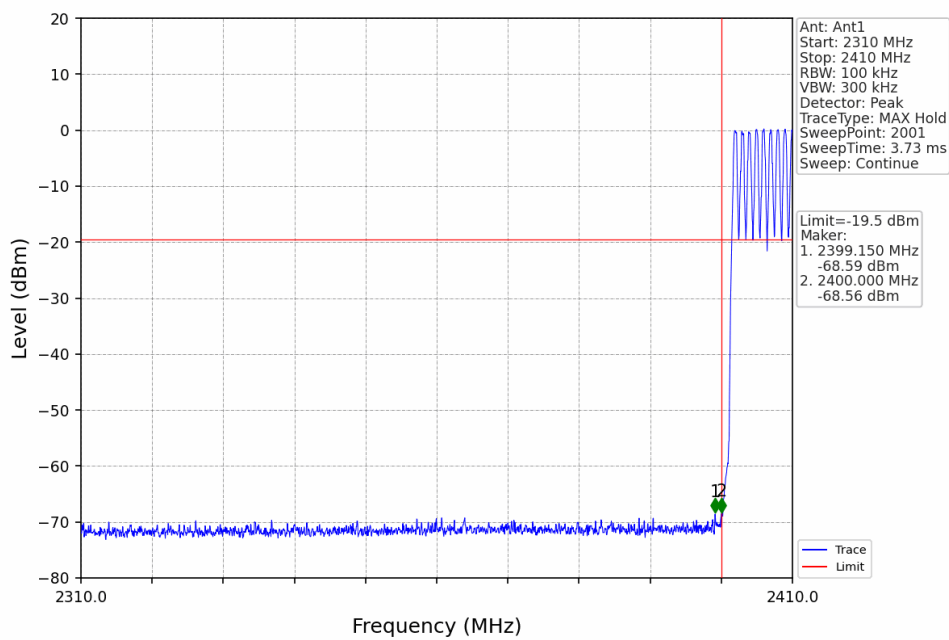
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

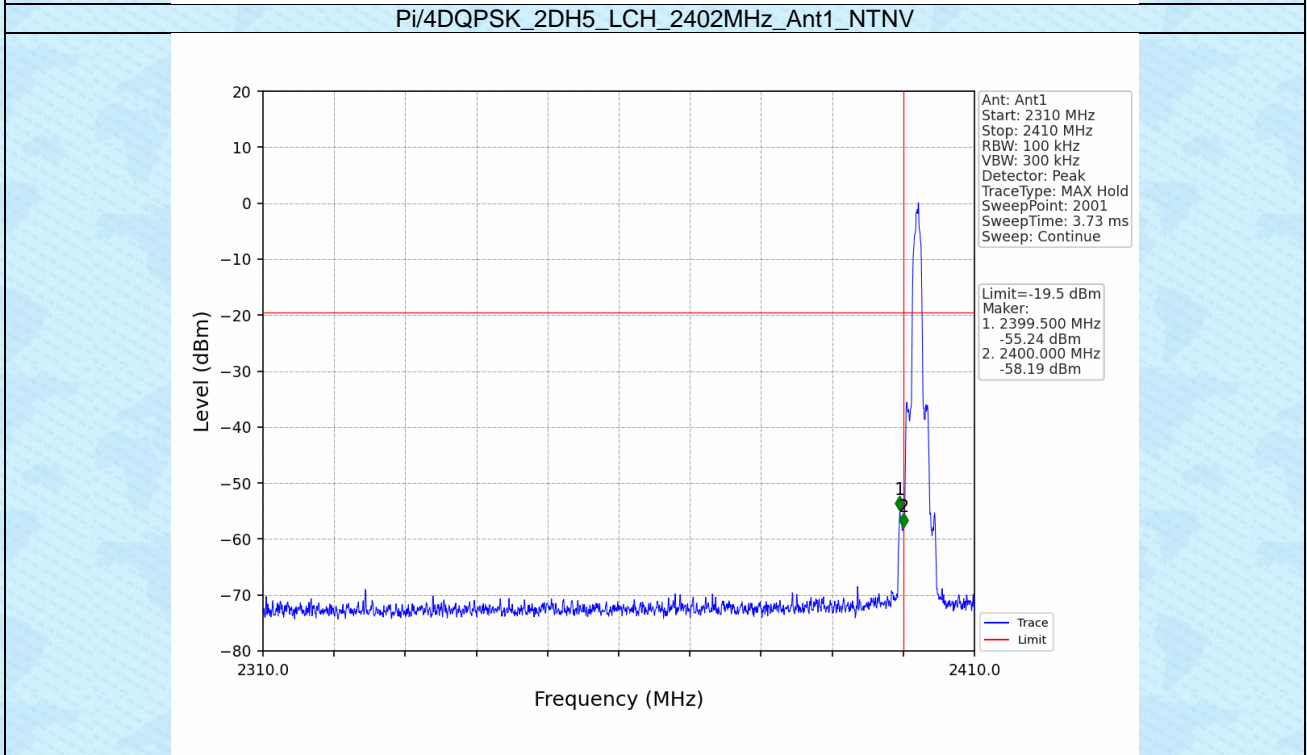
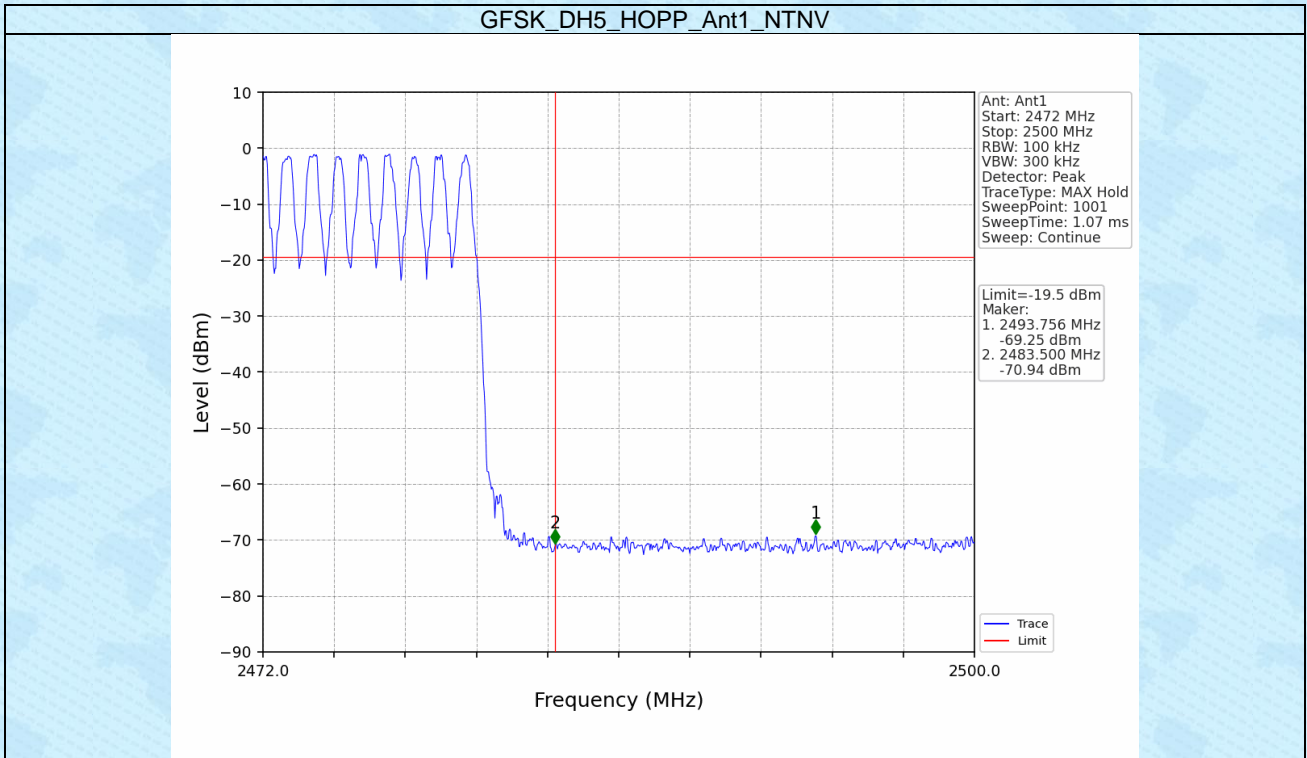


### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

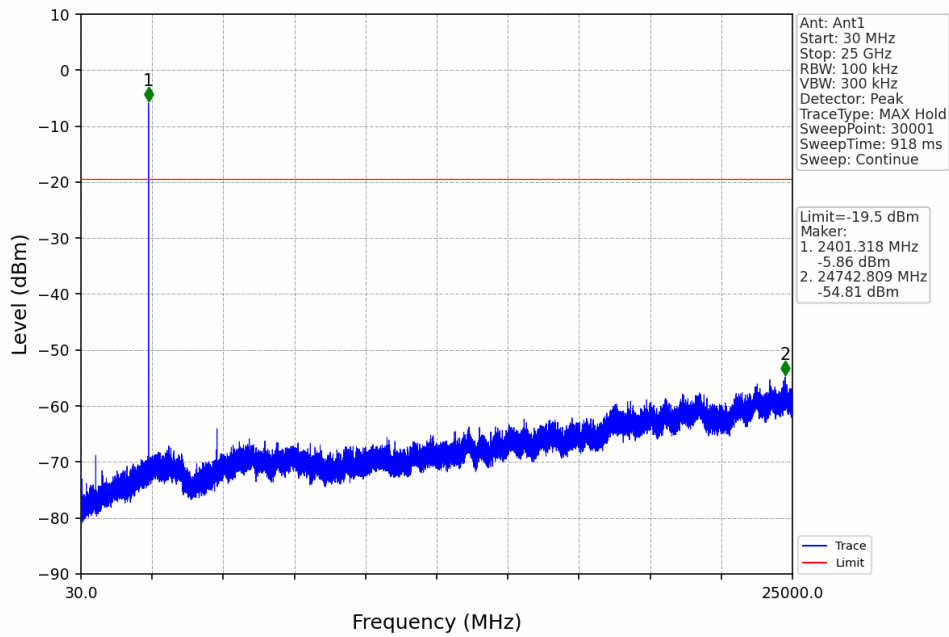


### GFSK\_DH5\_HOPP\_Ant1\_NTNV

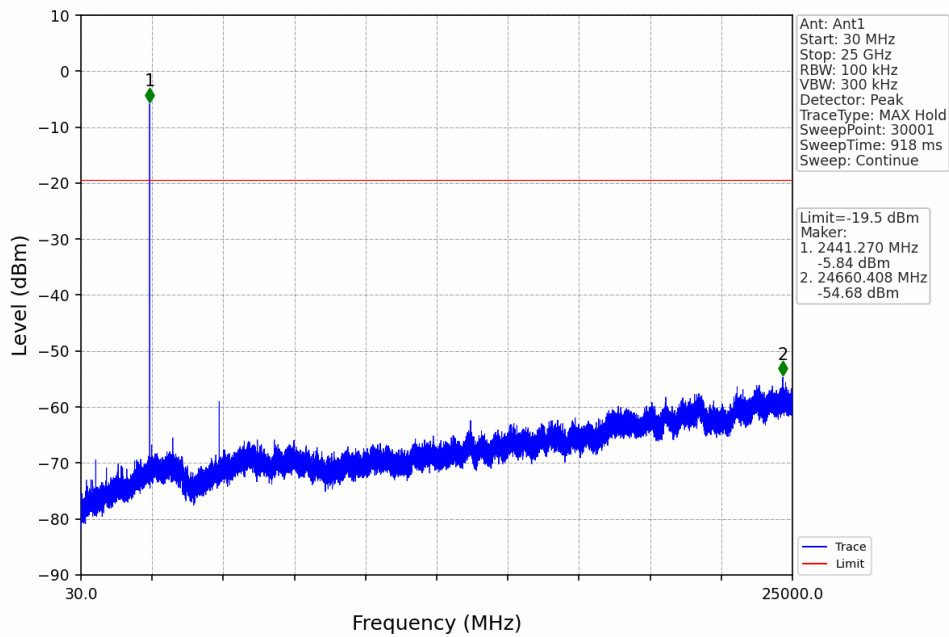




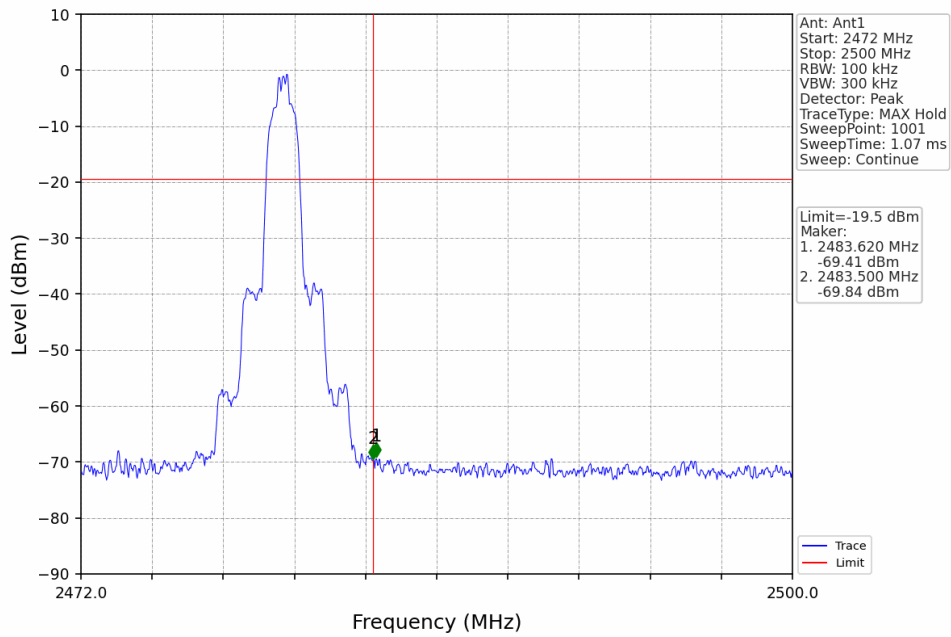
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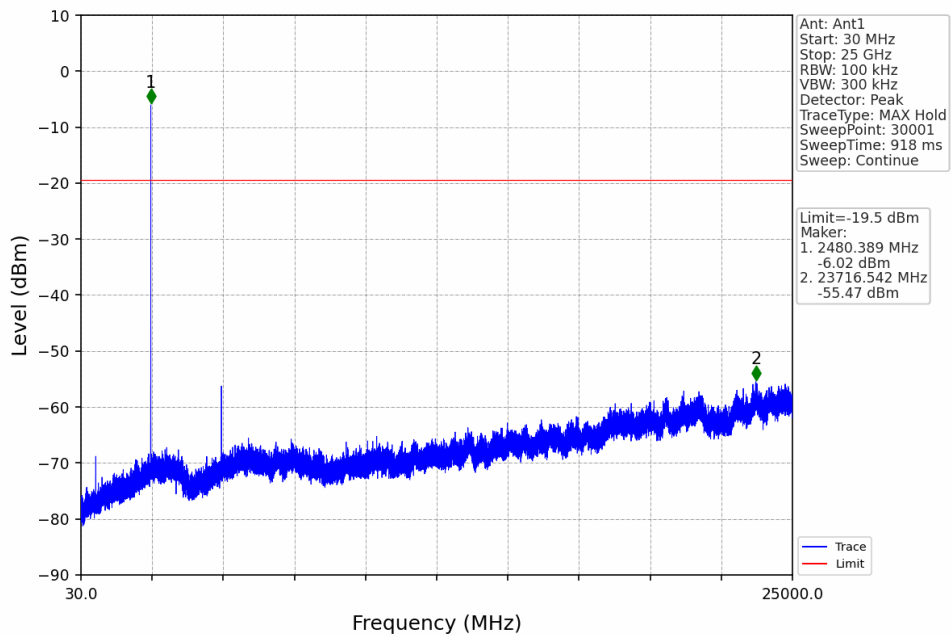
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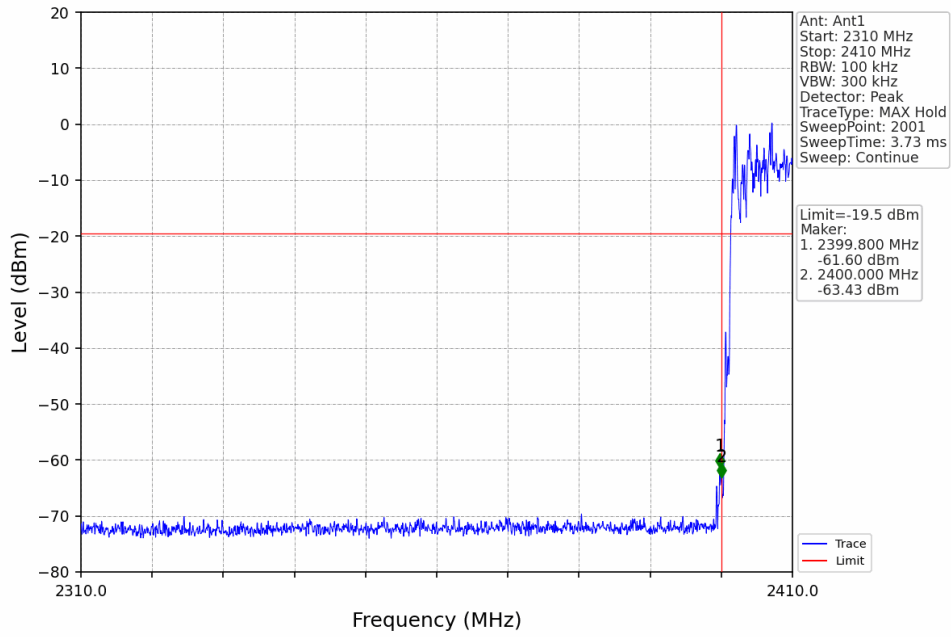
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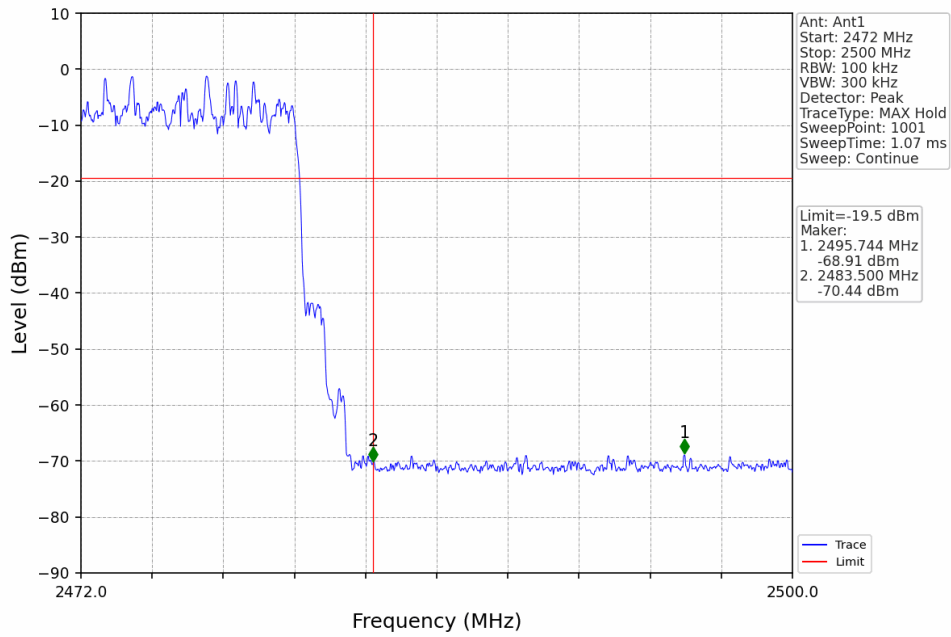
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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

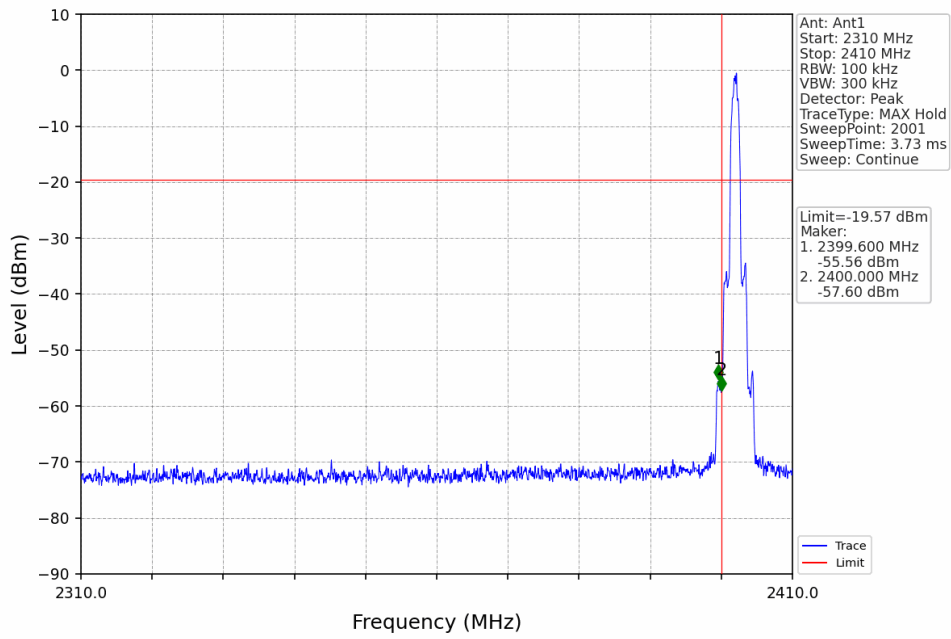


Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

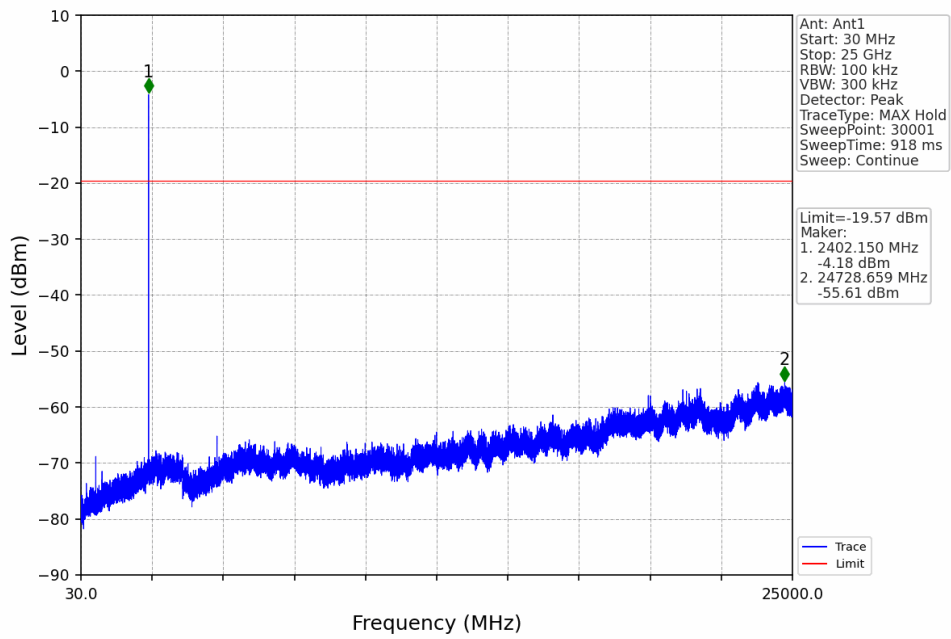




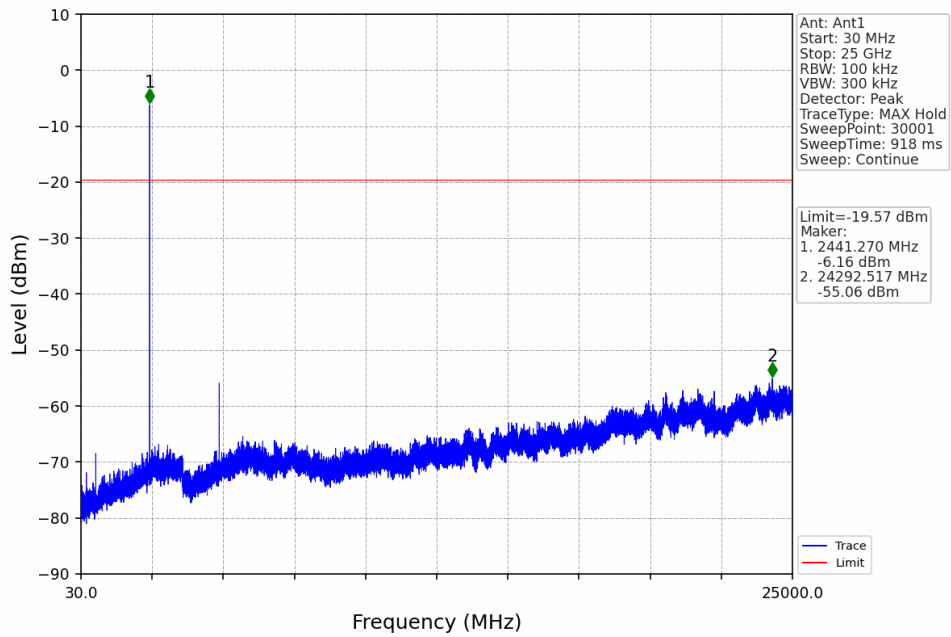
8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



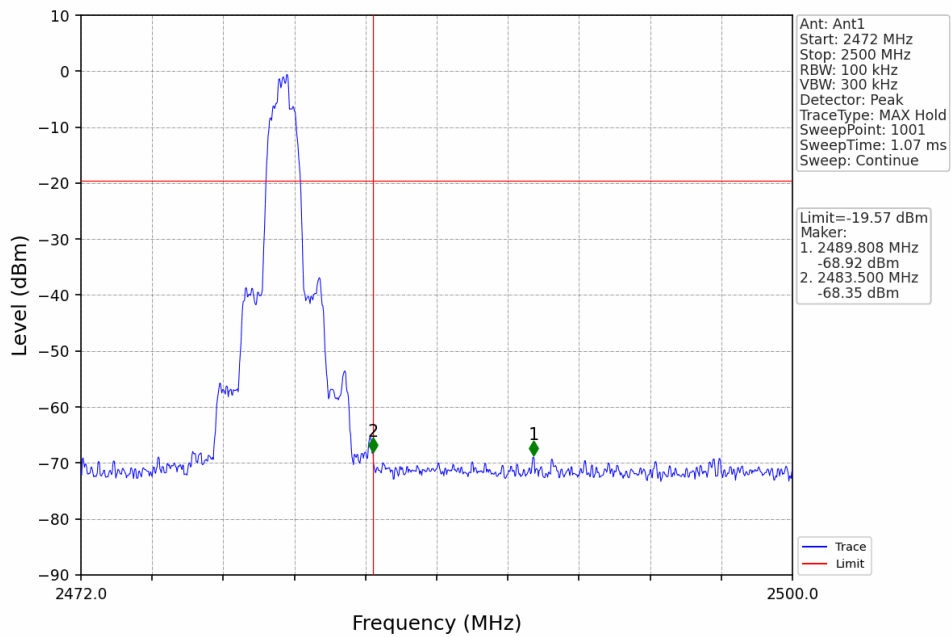
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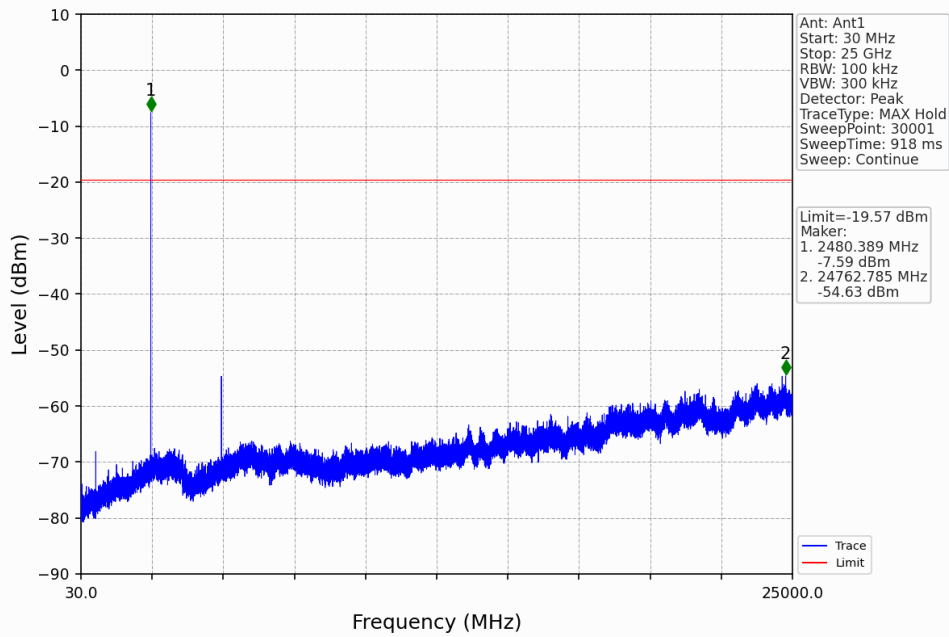
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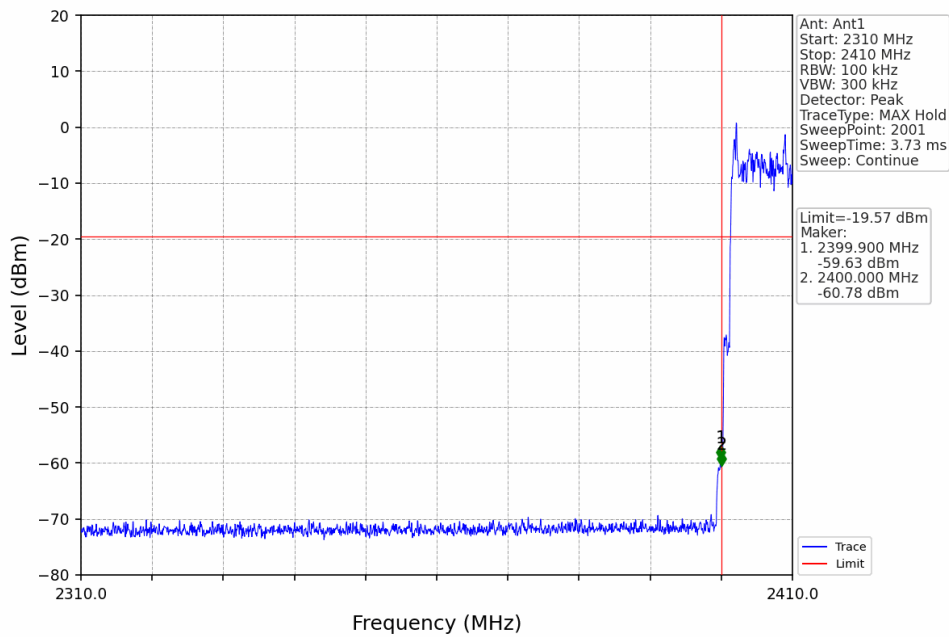
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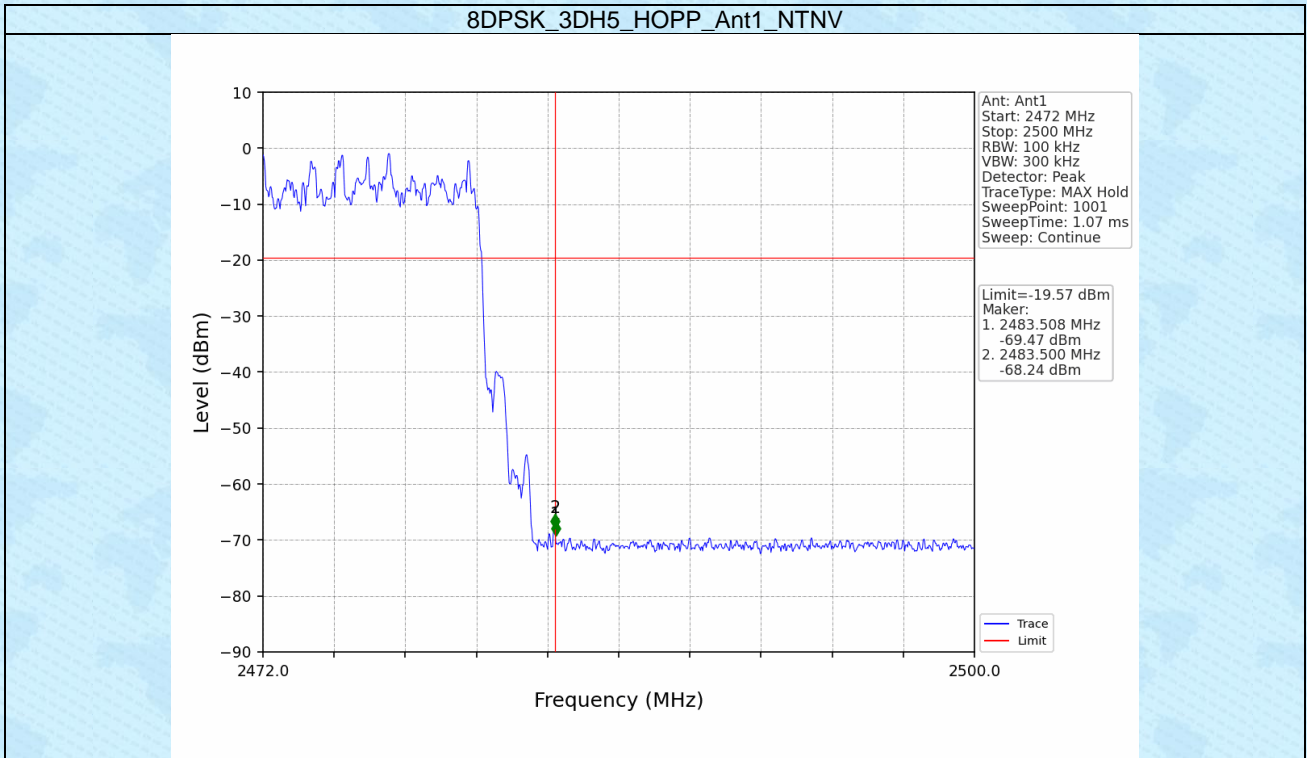


### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV





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