

## Appendix A for KSCR211200288001

## 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	0.889	Pass
		2441	DH5	1	0.890	Pass
		2480	DH5	1	0.892	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.208	Pass
		2441	2DH5	1	1.209	Pass
		2480	2DH5	1	1.211	Pass
8DPSK	SISO	2402	3DH5	1	1.202	Pass
		2441	3DH5	1	1.202	Pass
		2480	3DH5	1	1.206	Pass



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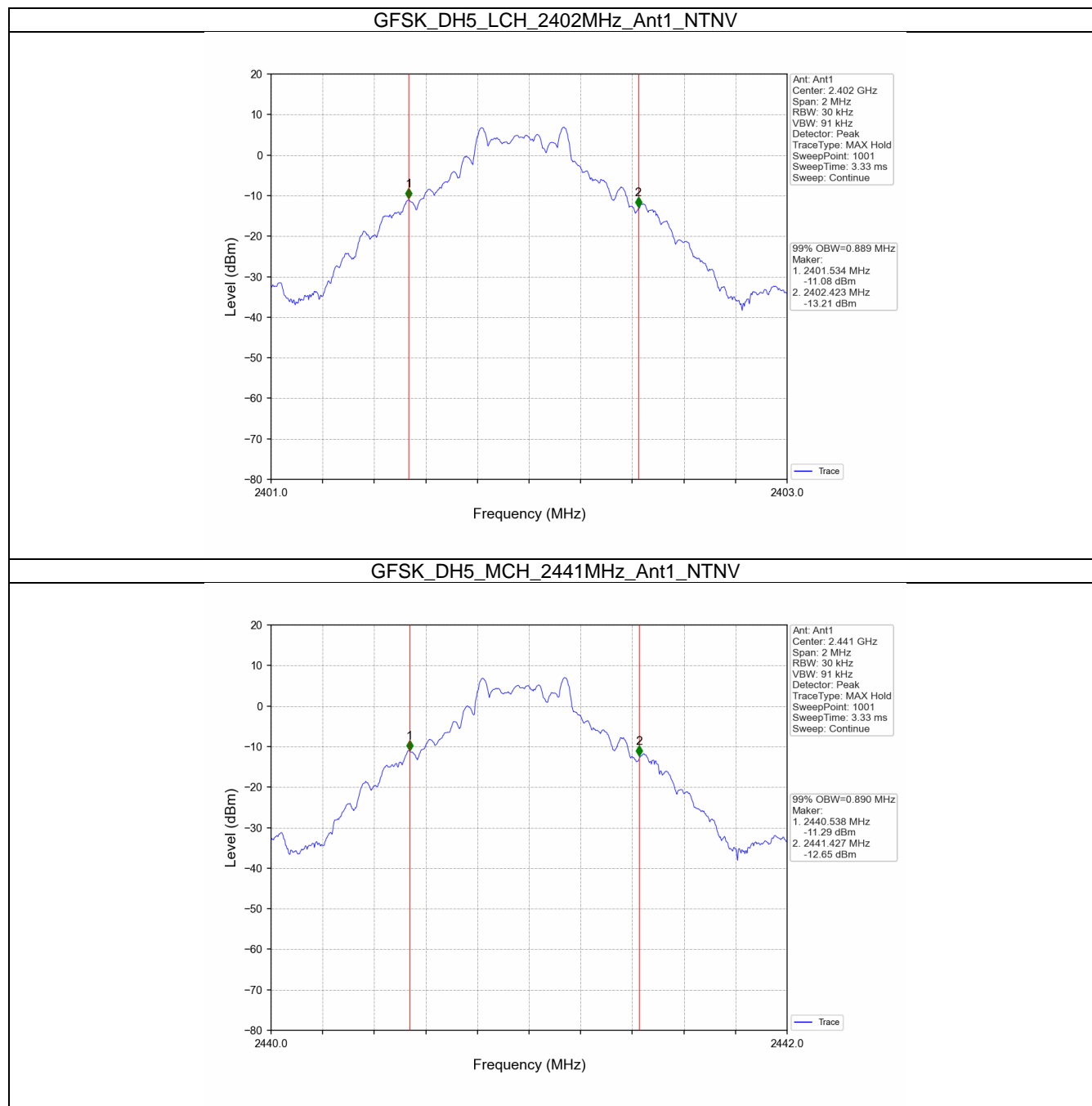
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## 1.1.2 Test Graph



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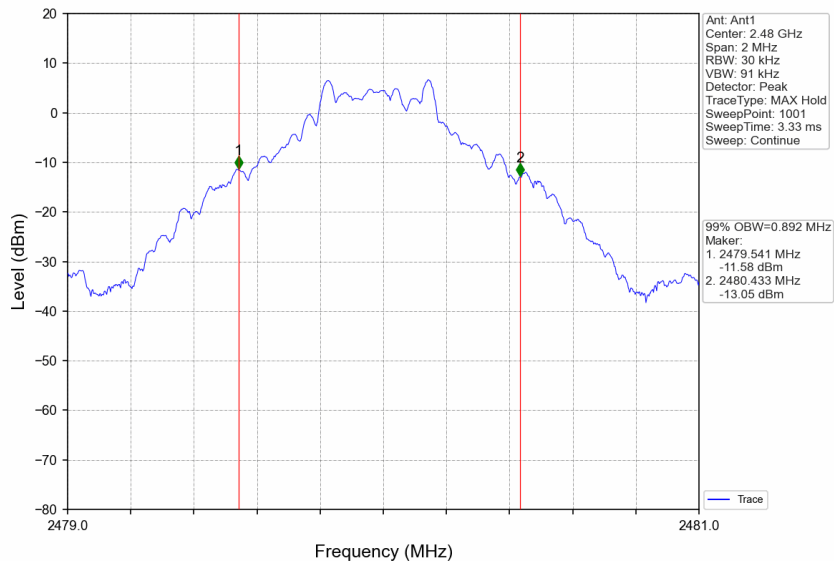
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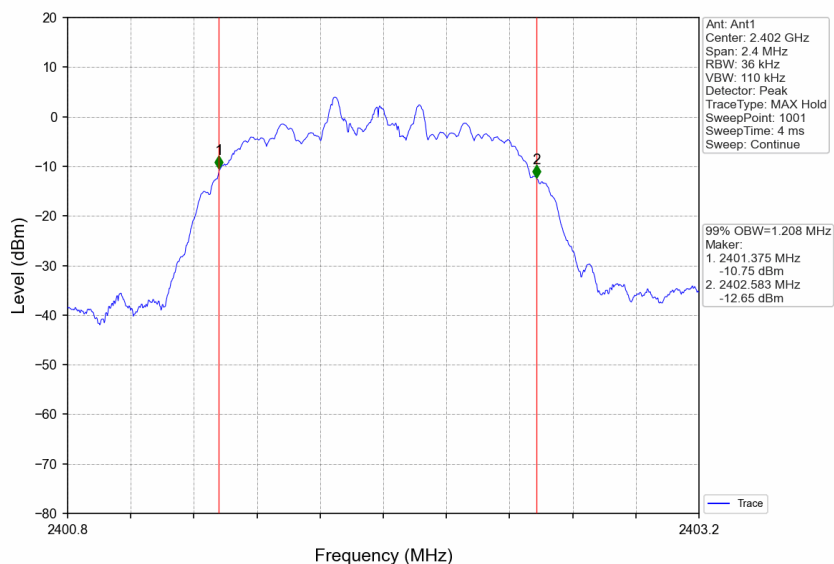
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## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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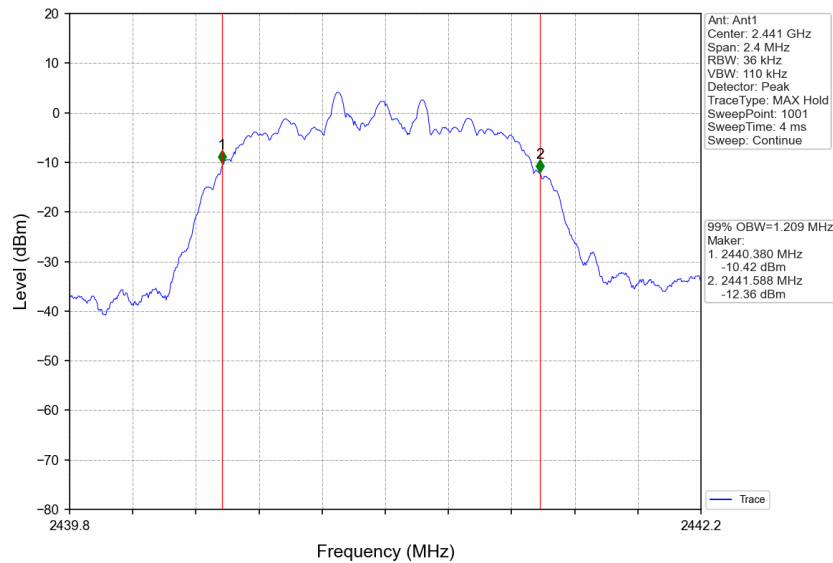
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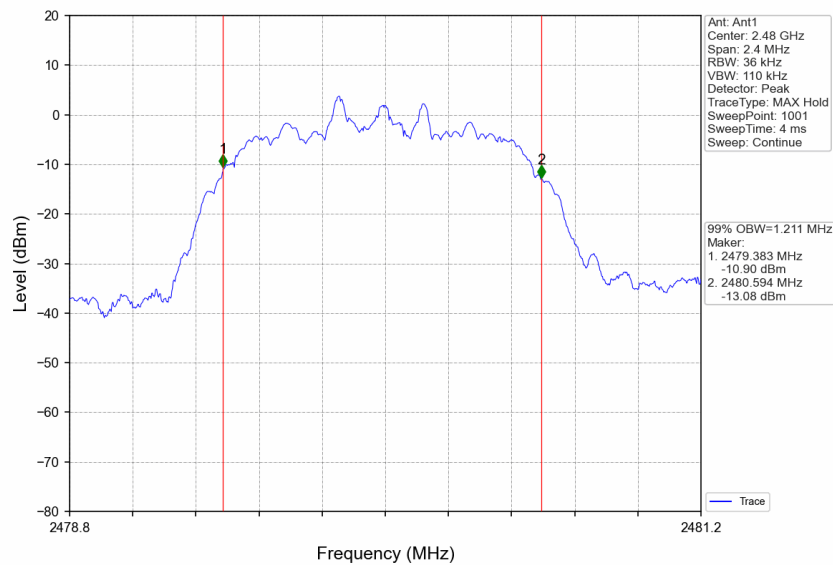
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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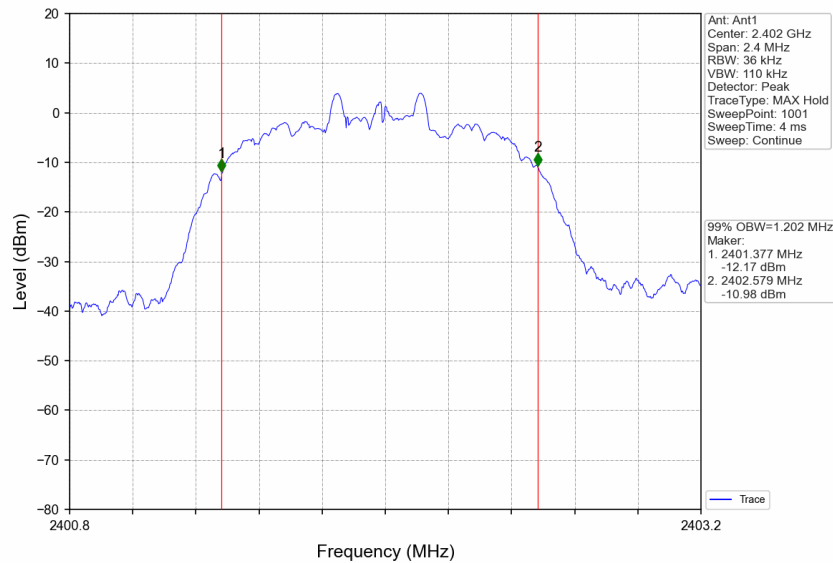
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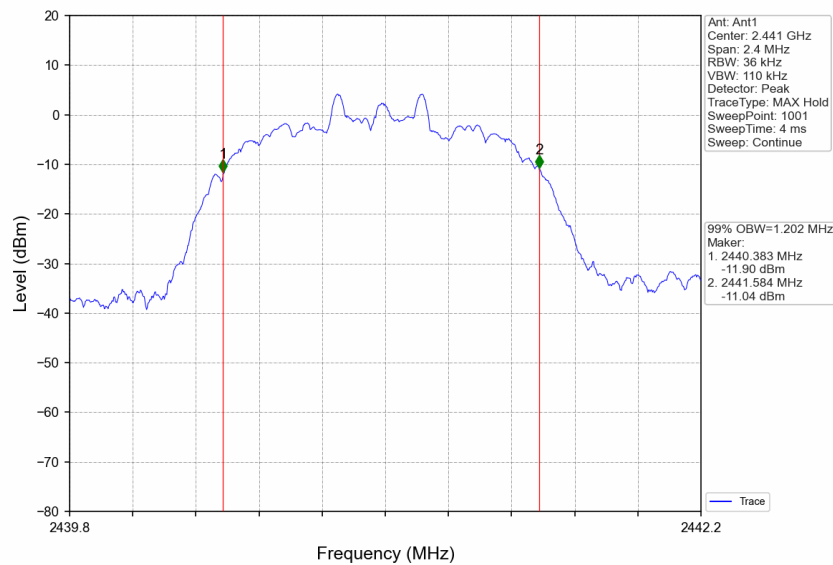
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## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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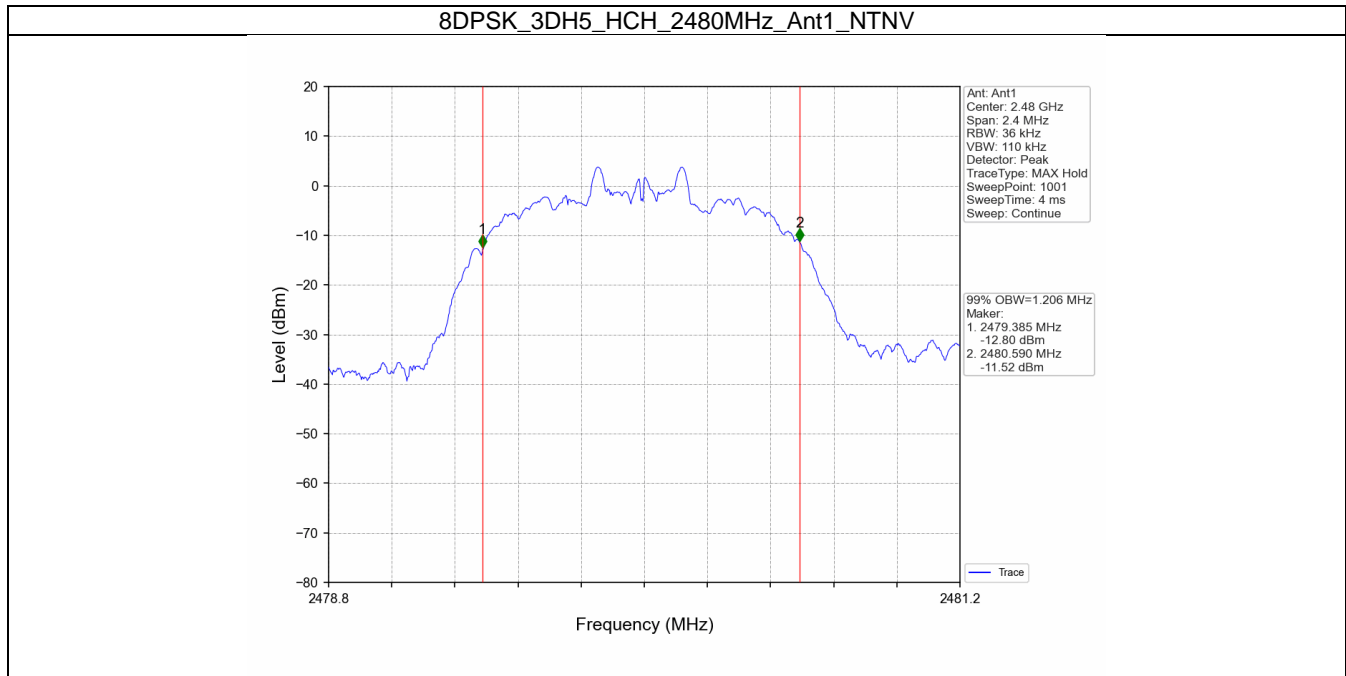
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## 1.2 20dB BW

### 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.942	Pass
		2441	DH5	1	0.943	Pass
		2480	DH5	1	0.943	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.338	Pass
		2441	2DH5	1	1.345	Pass
		2480	2DH5	1	1.343	Pass
8DPSK	SISO	2402	3DH5	1	1.311	Pass
		2441	3DH5	1	1.311	Pass
		2480	3DH5	1	1.312	Pass



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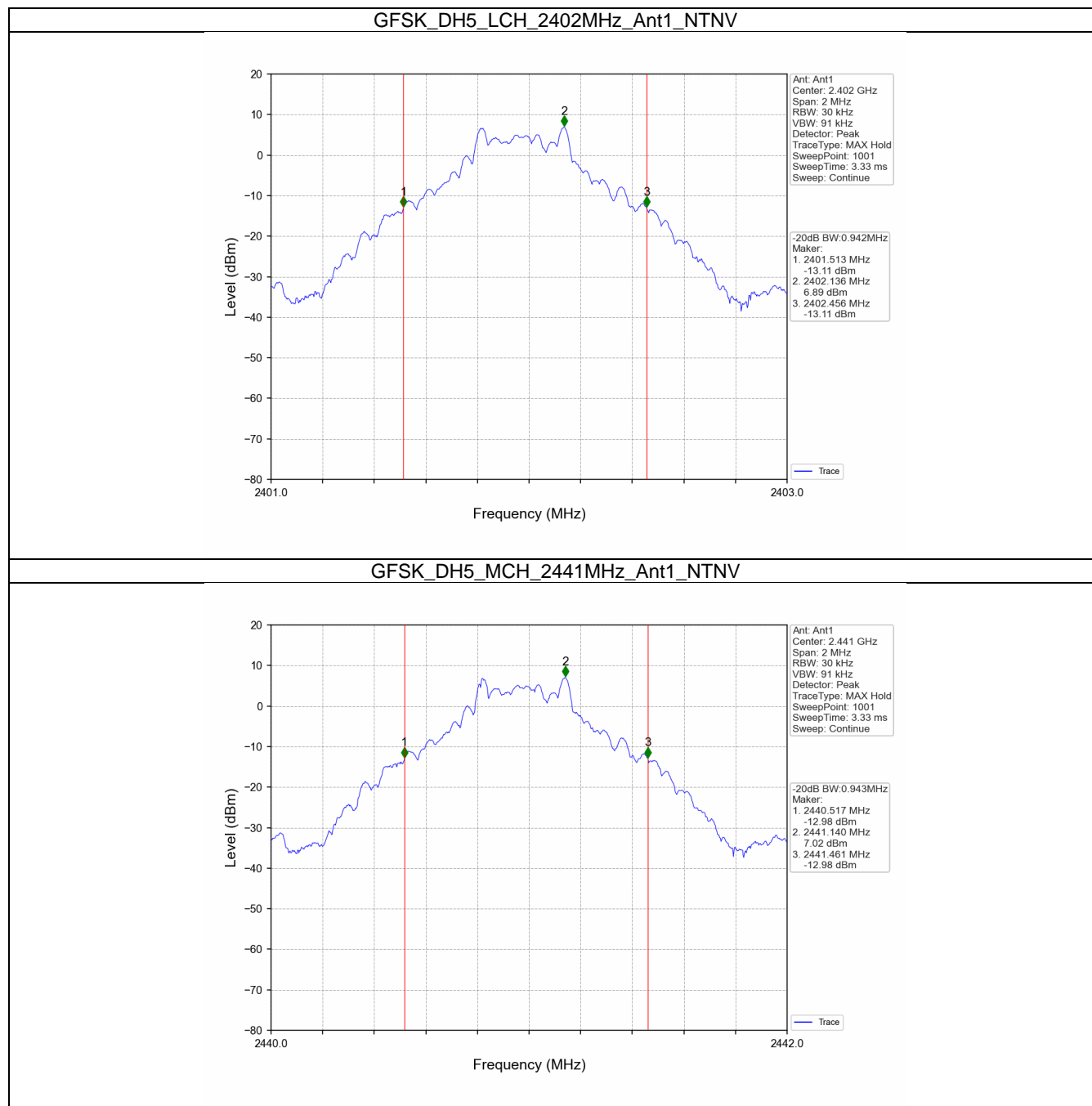
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## 1.2.2 Test Graph



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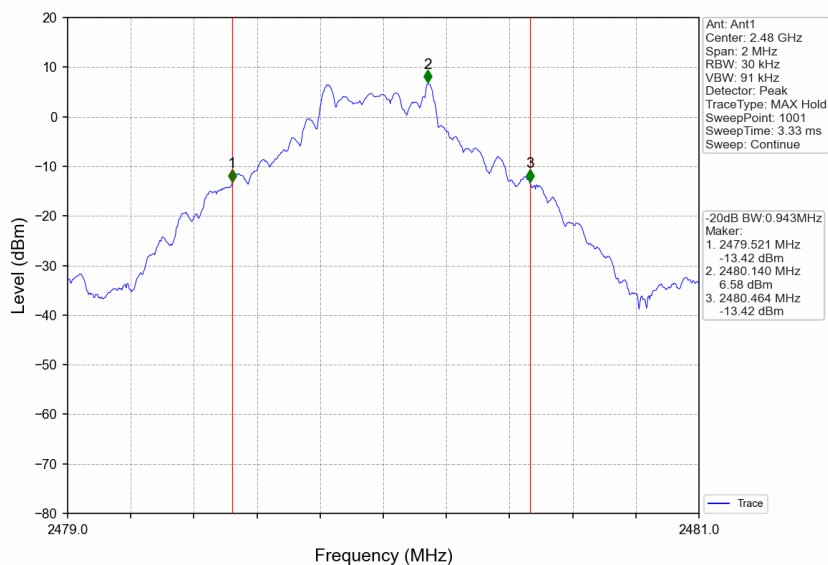
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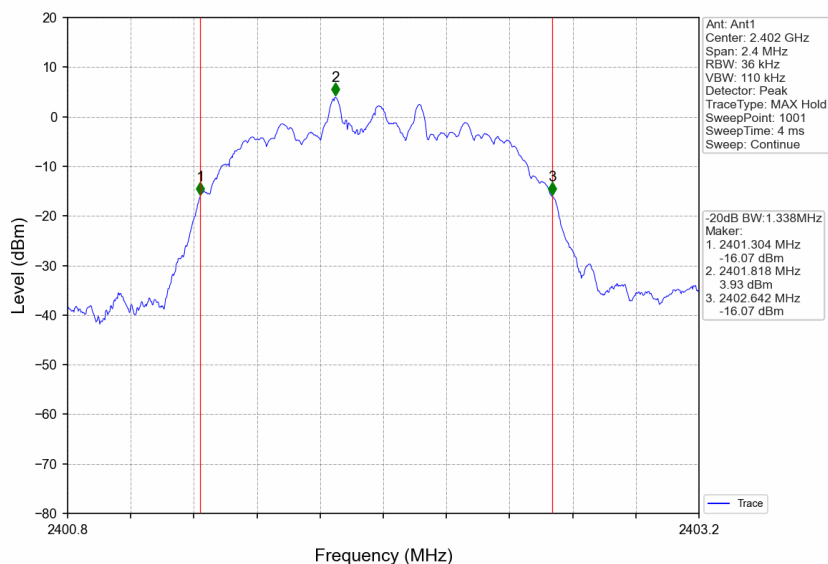
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## Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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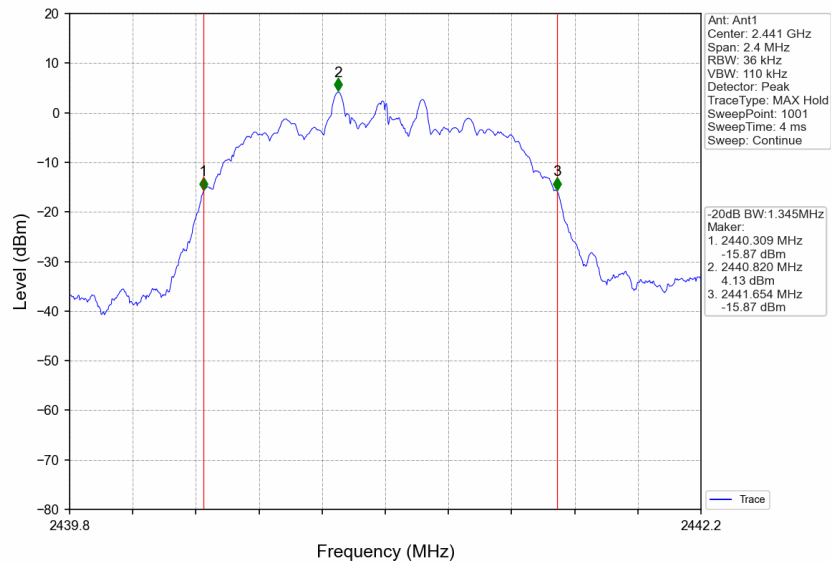
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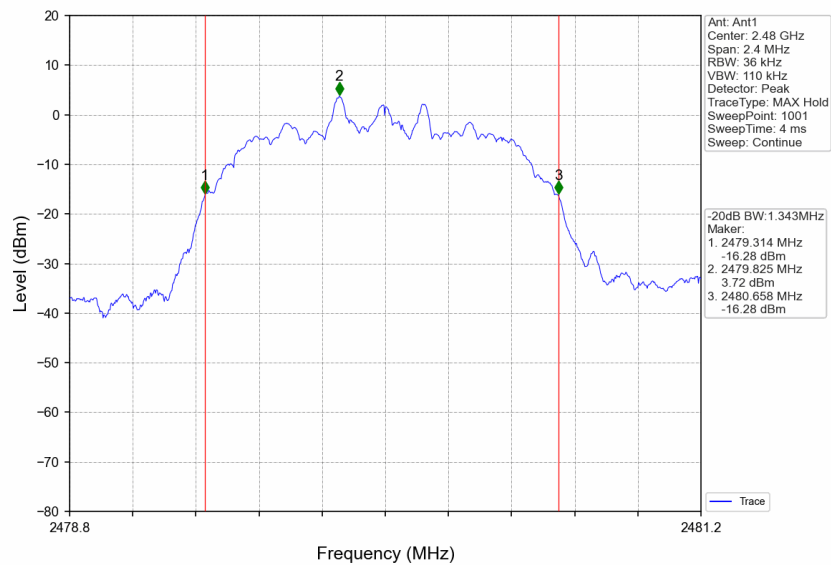
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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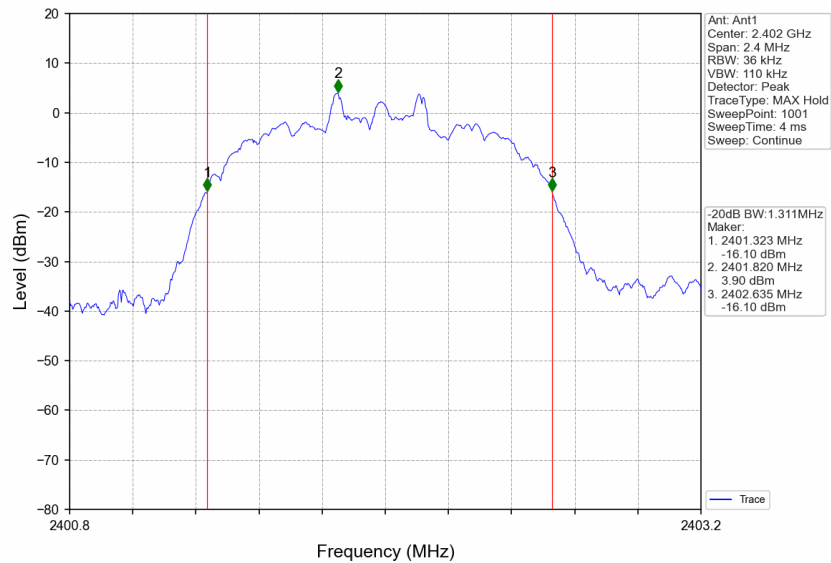
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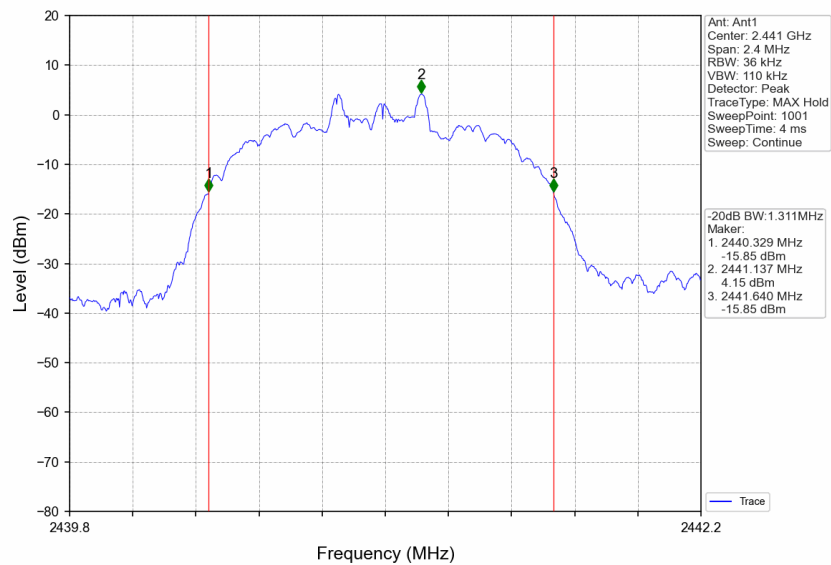
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## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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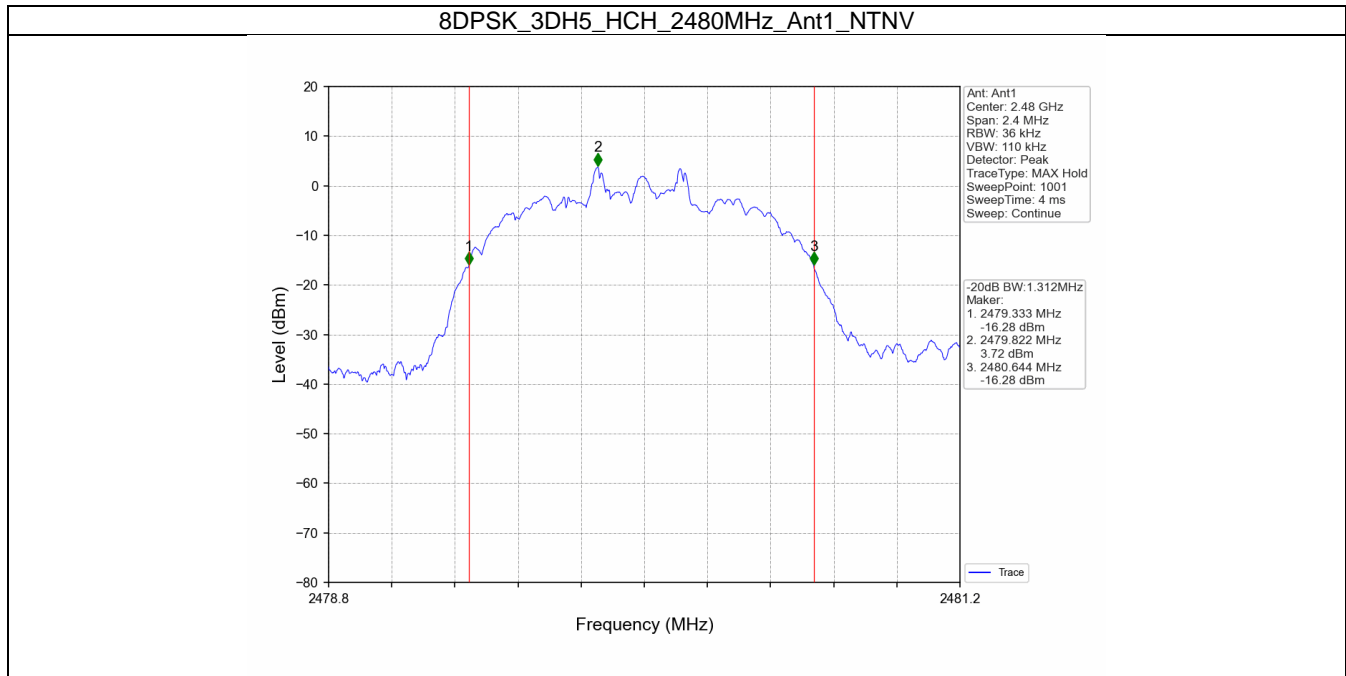
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## 2. Maximum Conducted Output Power

### 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	8.00	$\leq -30$	Pass
		2441	DH5	8.14	$\leq -30$	Pass
		2480	DH5	7.76	$\leq -30$	Pass
Pi/4DQPSK	SISO	2402	2DH5	6.73	$\leq -20.97$	Pass
		2441	2DH5	6.88	$\leq -20.97$	Pass
		2480	2DH5	6.38	$\leq -20.97$	Pass
8DPSK	SISO	2402	3DH5	7.11	$\leq -20.97$	Pass
		2441	3DH5	7.24	$\leq -20.97$	Pass
		2480	3DH5	6.74	$\leq -20.97$	Pass

Note1: Antenna Gain: Ant1: 2.58dBi;



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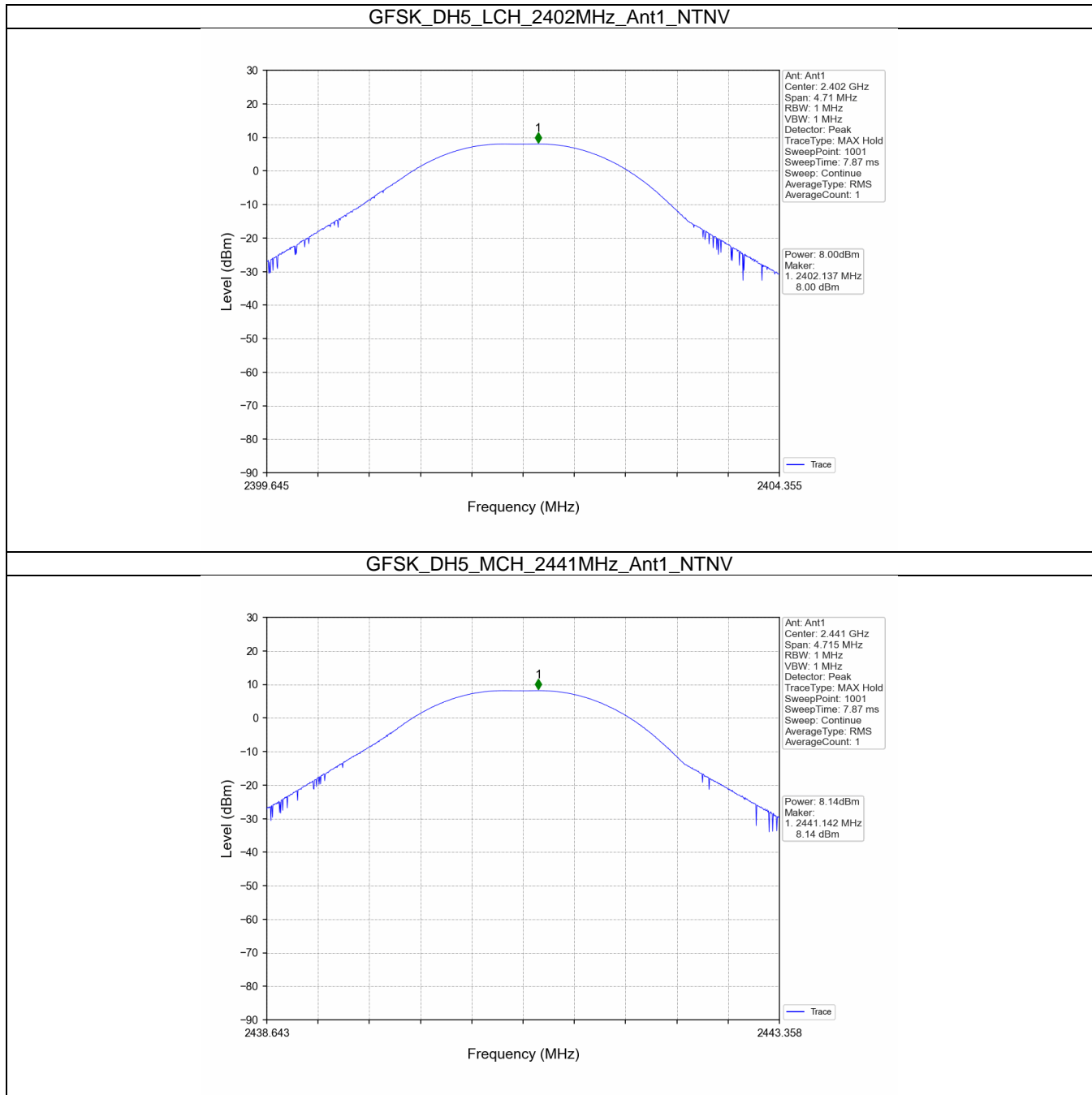
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## 2.1.2 Test Graph



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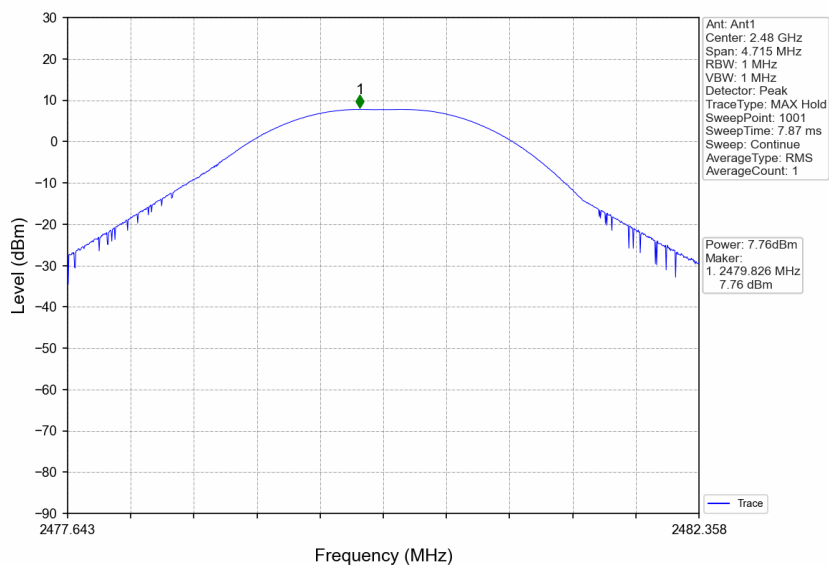
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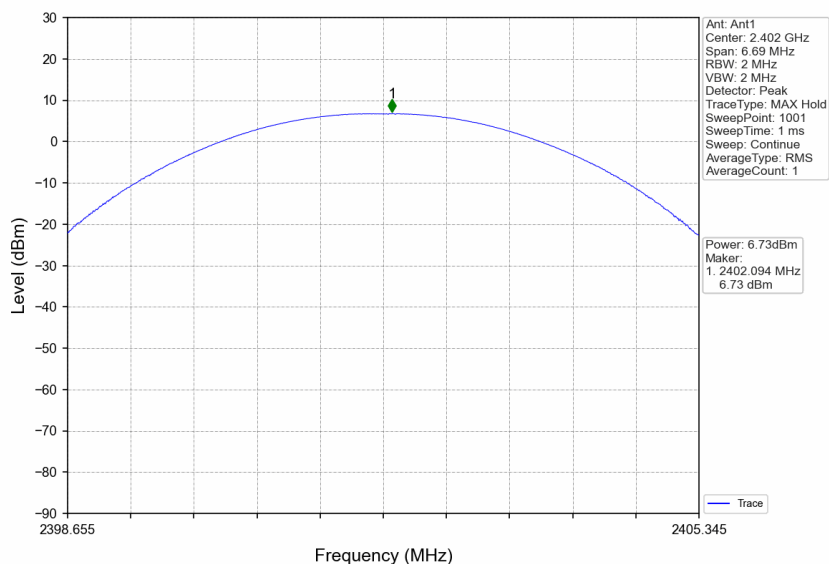
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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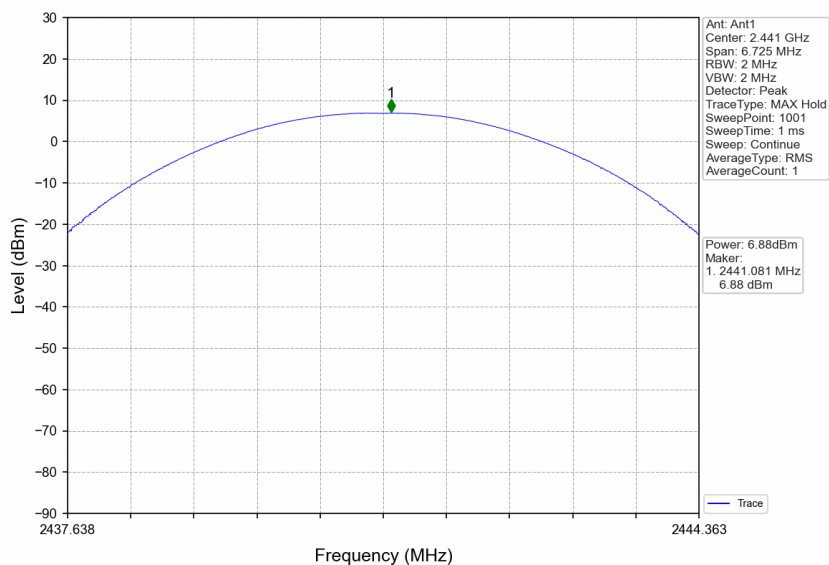
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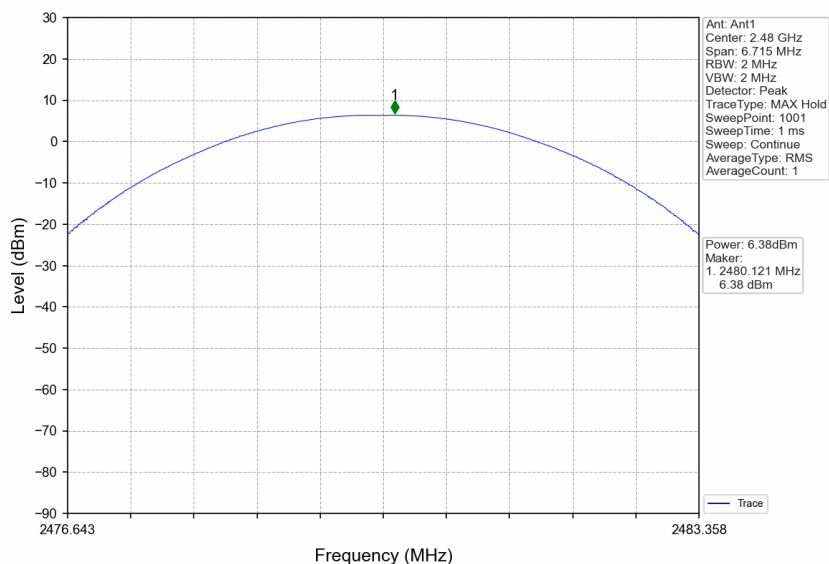
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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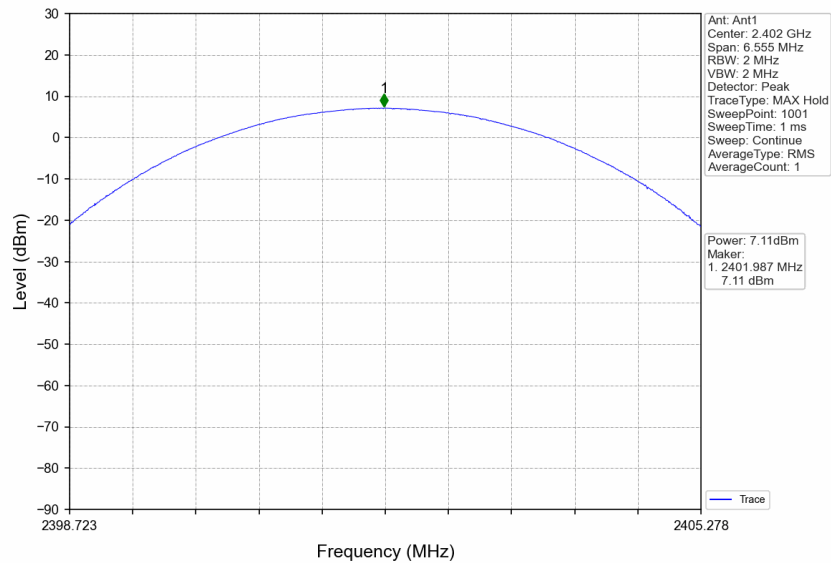
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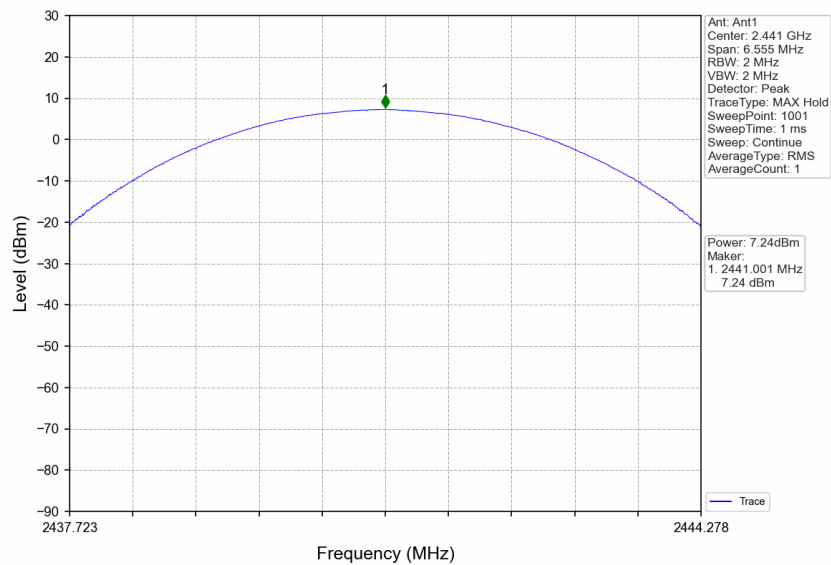
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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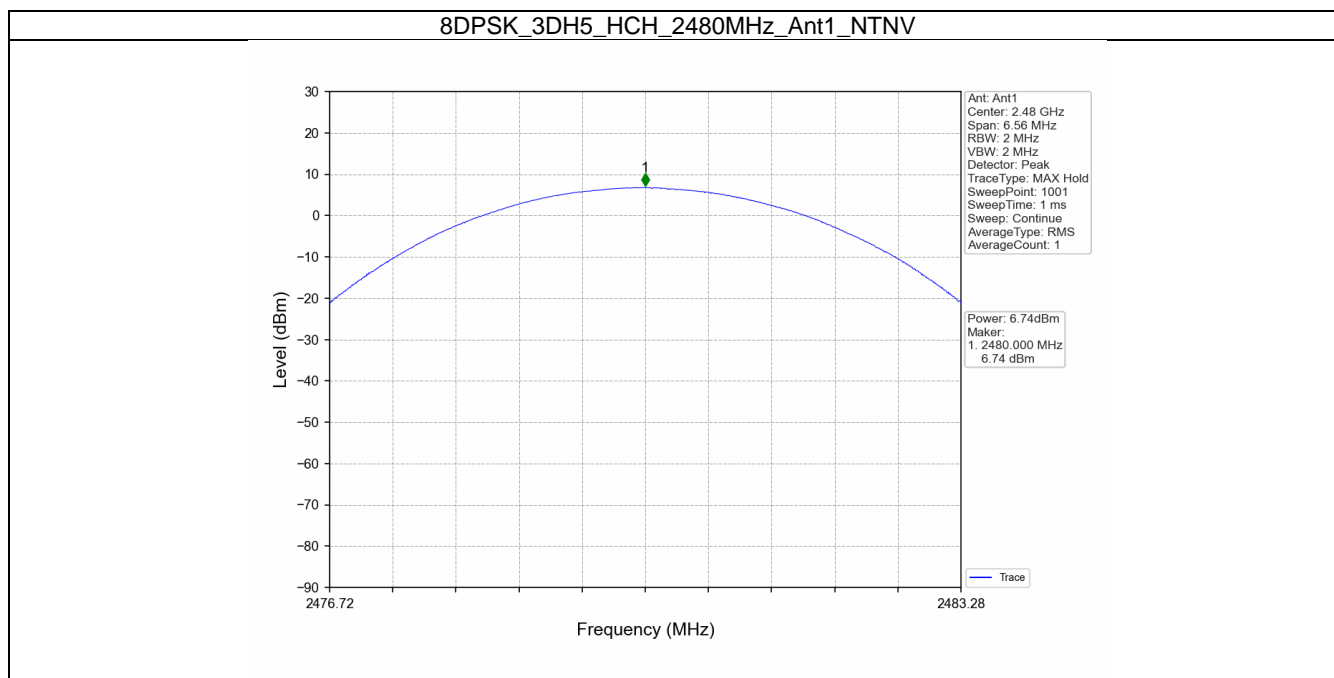
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### 3. Carrier Frequency Separation

#### 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	1.000	0.943	$\geq 0.943$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.006	1.345	$\geq 0.897$	Pass
8DPSK	SISO	HOPP	3DH5	0.989	1.312	$\geq 0.875$	Pass



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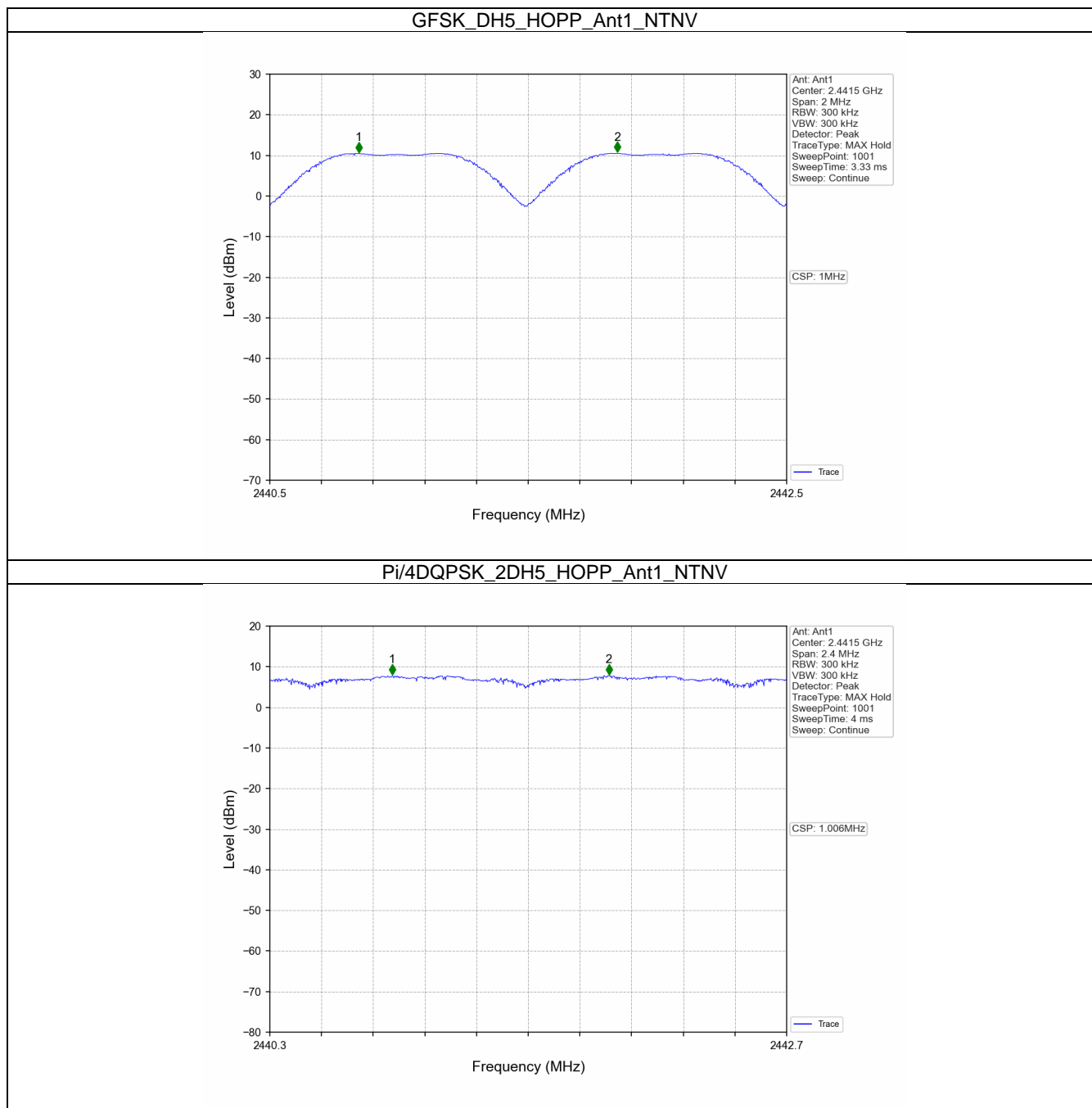
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### 3.1.2 Test Graph

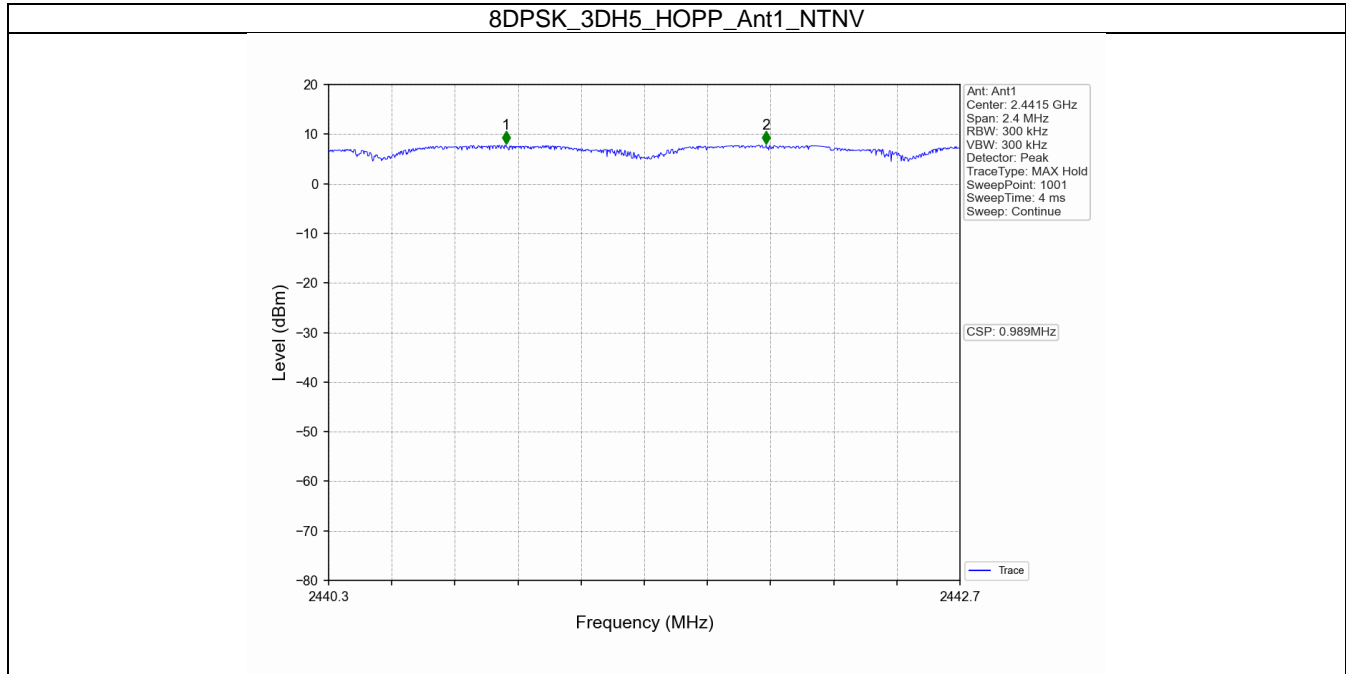


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## 4. Number of Hopping Frequencies

### 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



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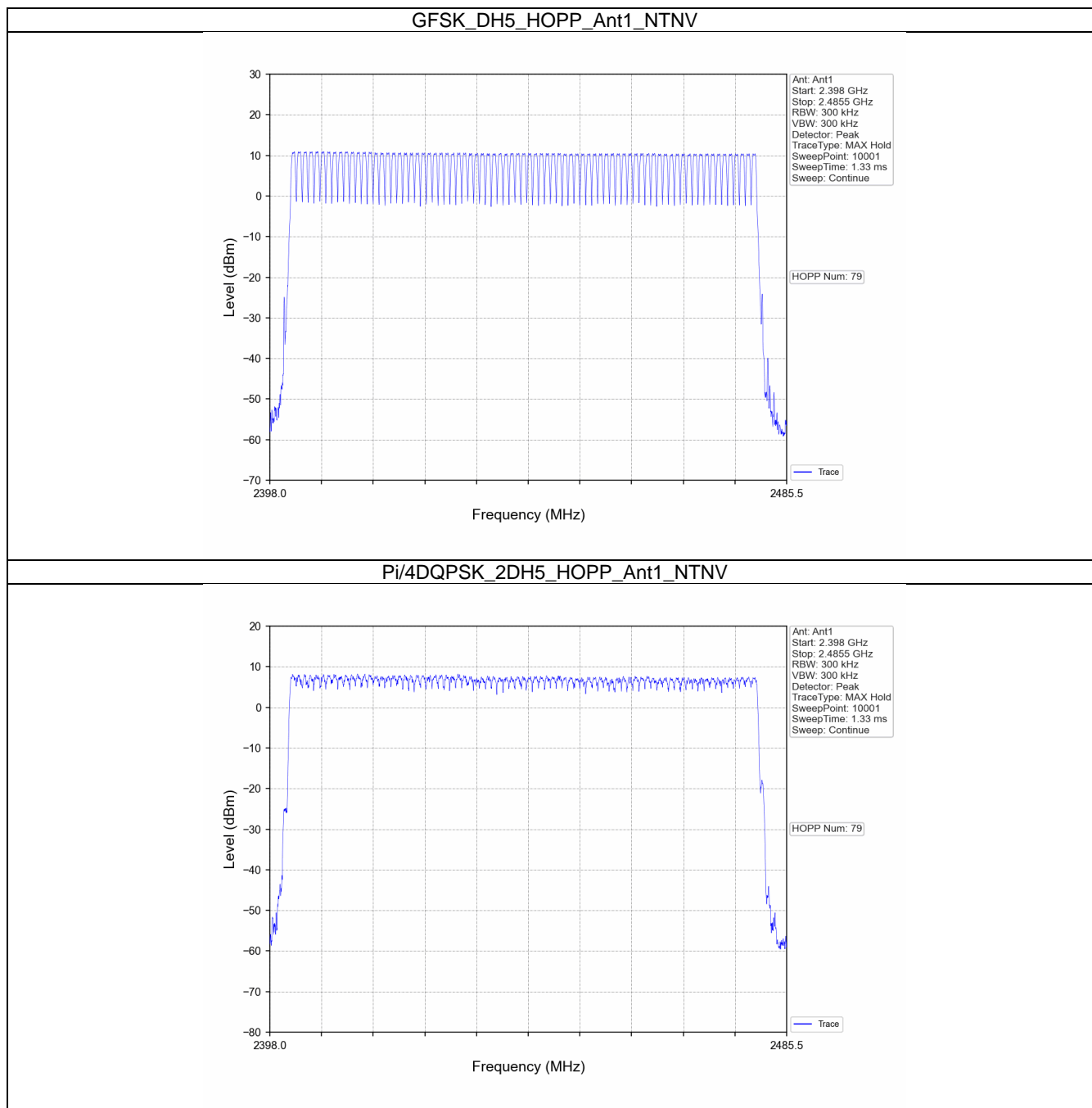
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## 4.1.2 Test Graph



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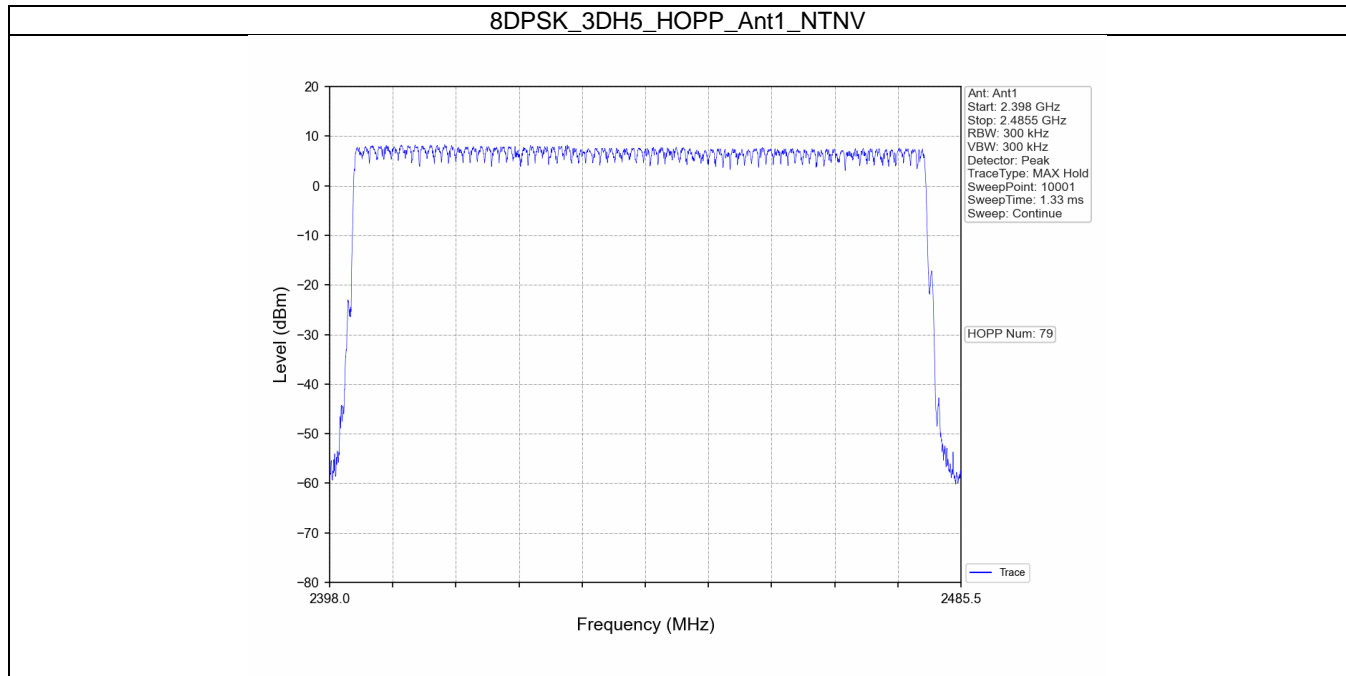
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## 5. Time of Occupancy (Dwell Time)

### 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	0.386	31.600	321	123.906	<=400	Pass
			DH3	1.640	31.600	157	257.480	<=400	Pass
			DH5	2.890	31.600	93	268.770	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.644	31.600	172	282.768	<=400	Pass
			2DH5	2.890	31.600	107	309.230	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.642	31.600	160	262.720	<=400	Pass
			3DH5	2.892	31.600	105	303.660	<=400	Pass



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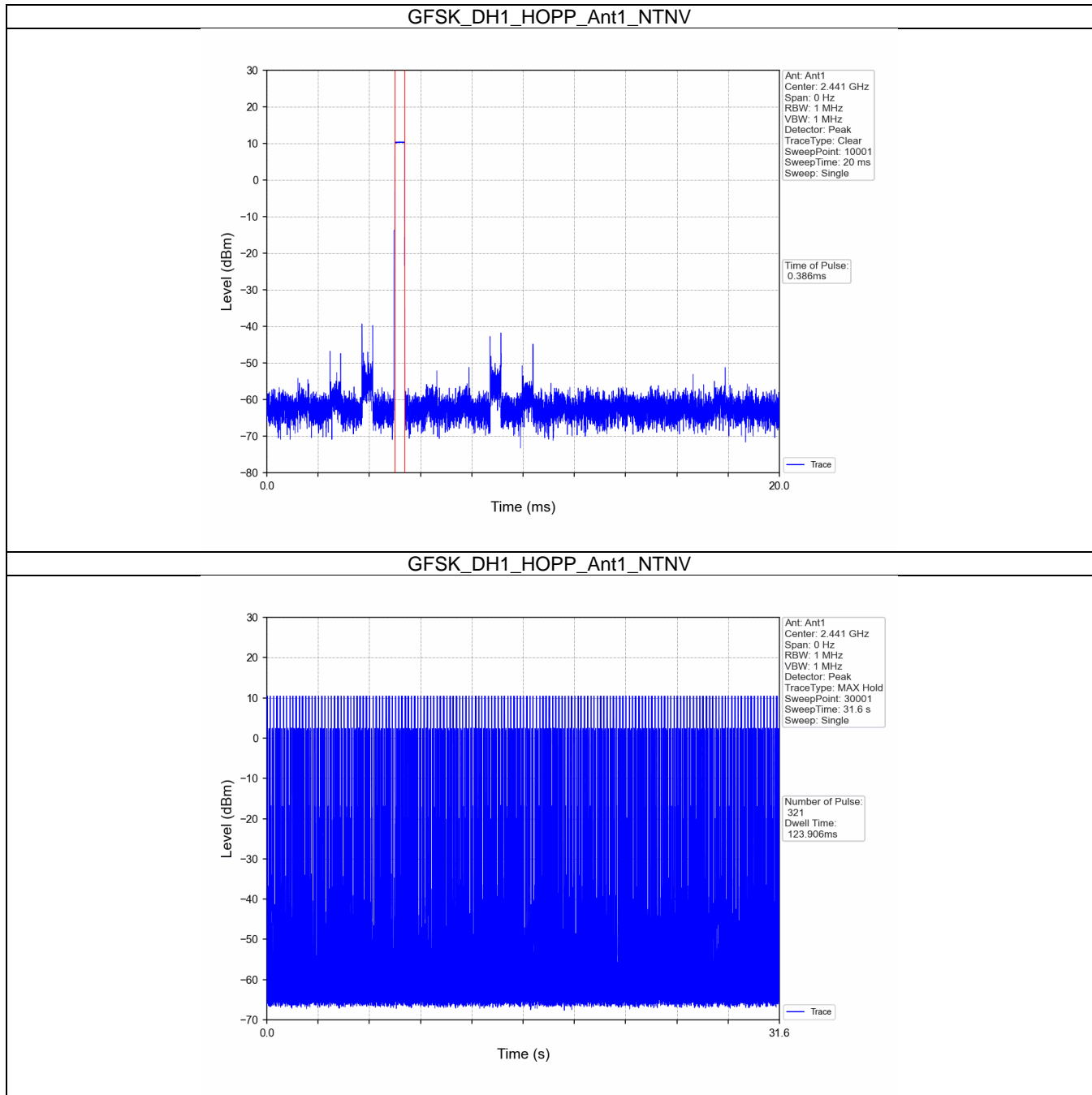
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## 5.1.2 Test Graph



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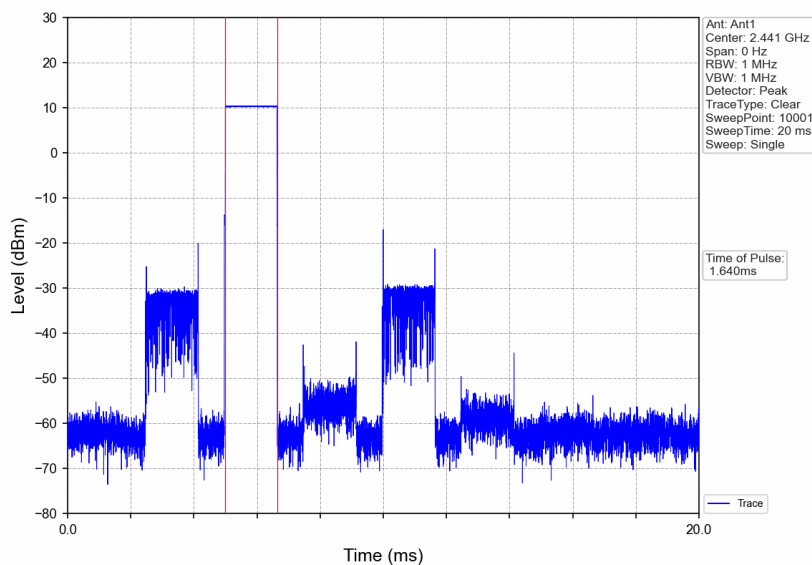
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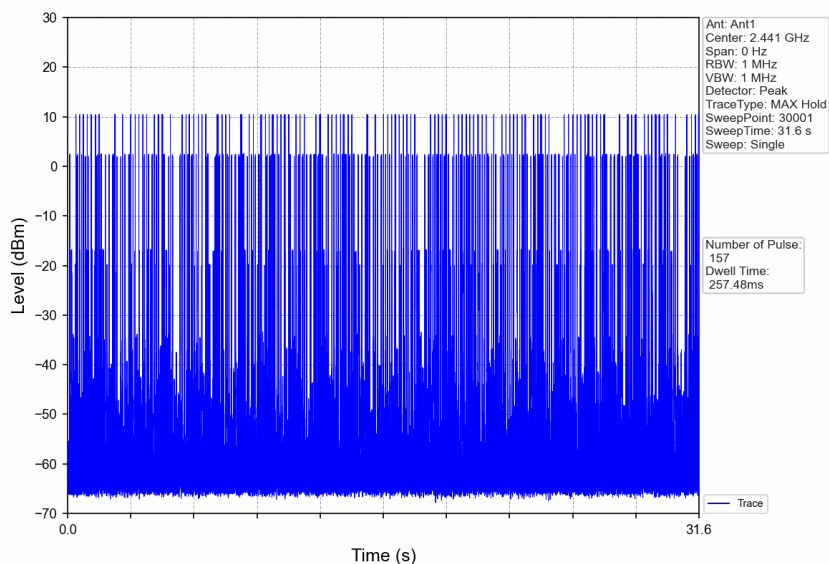
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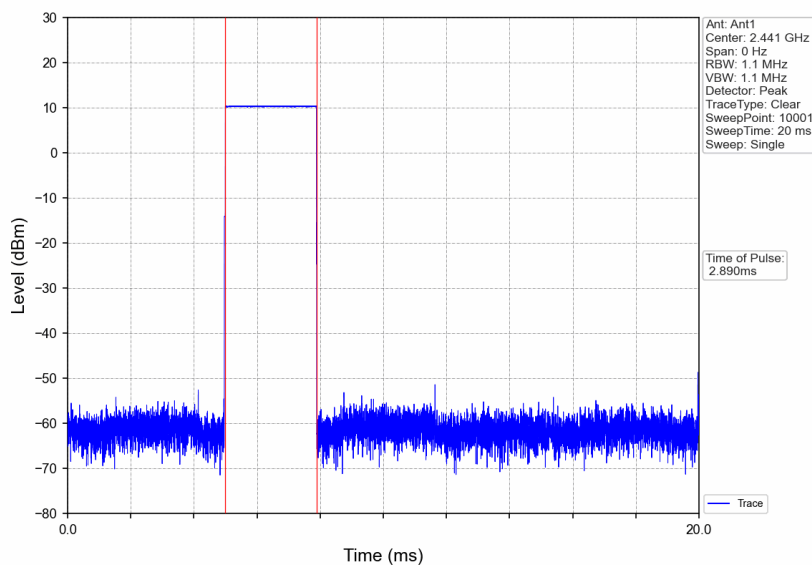
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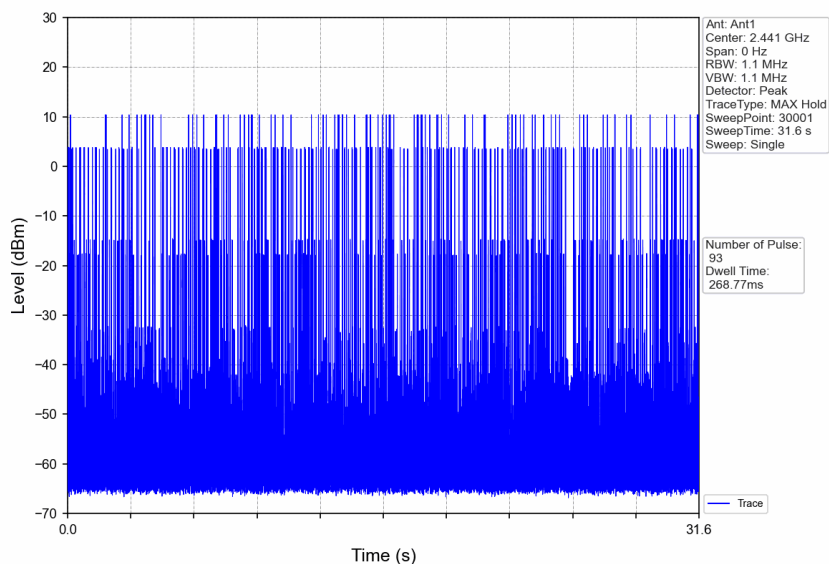
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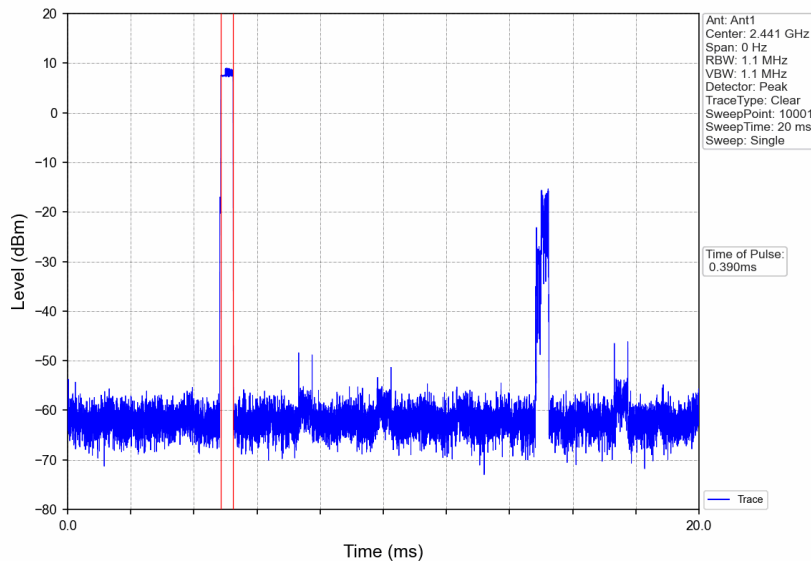
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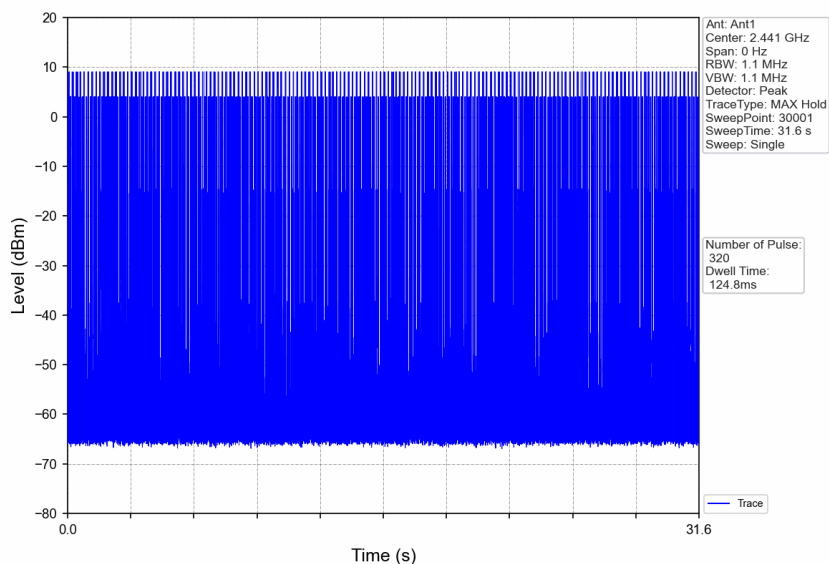
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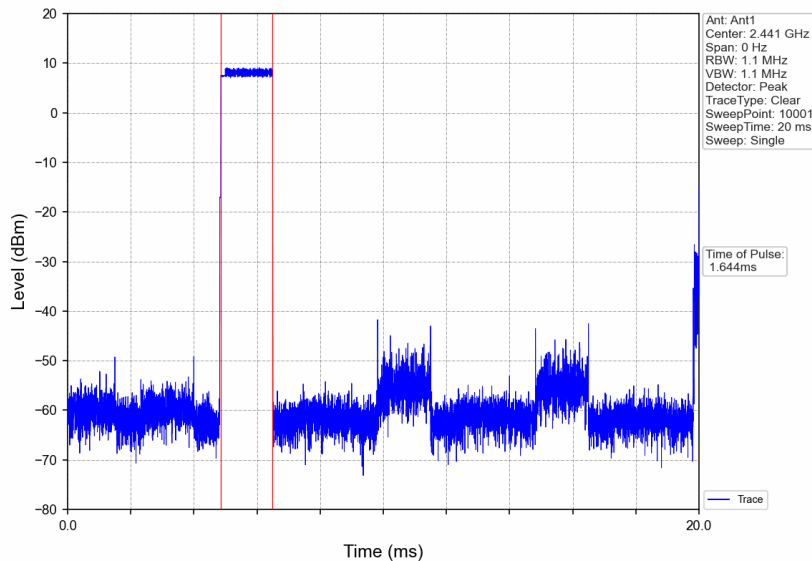
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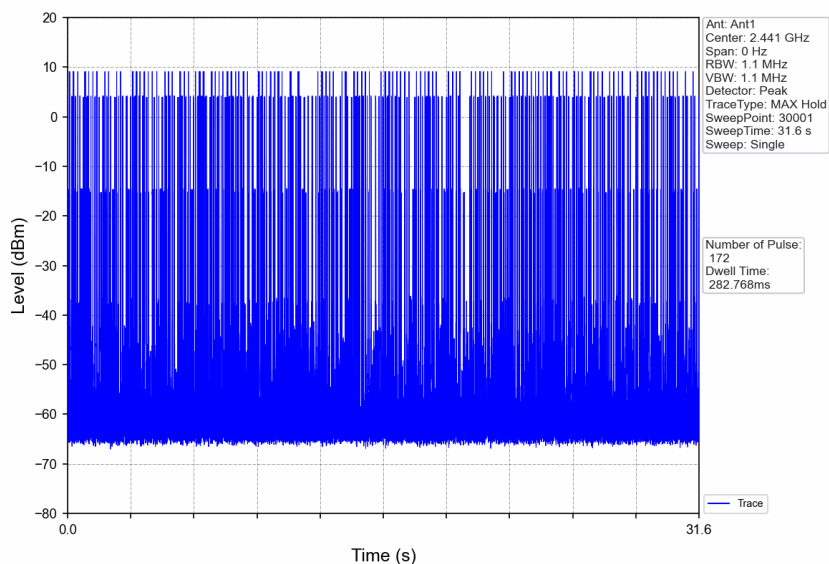
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Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



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



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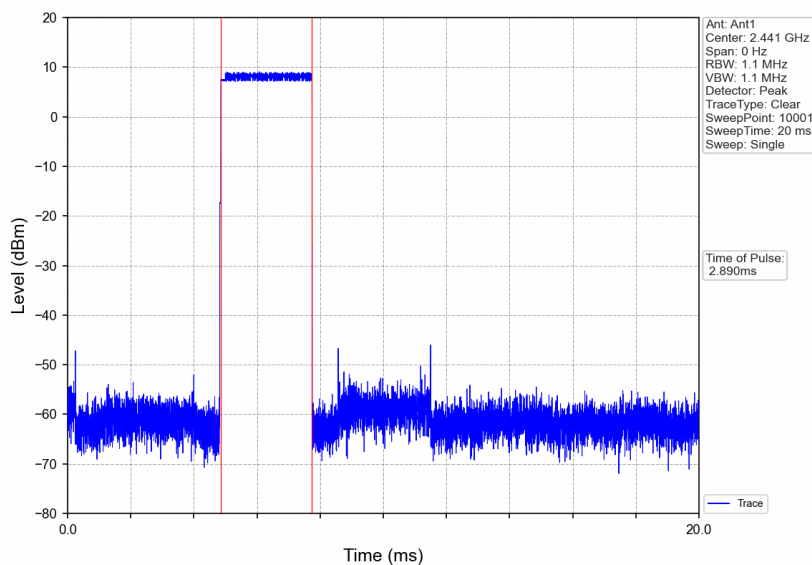
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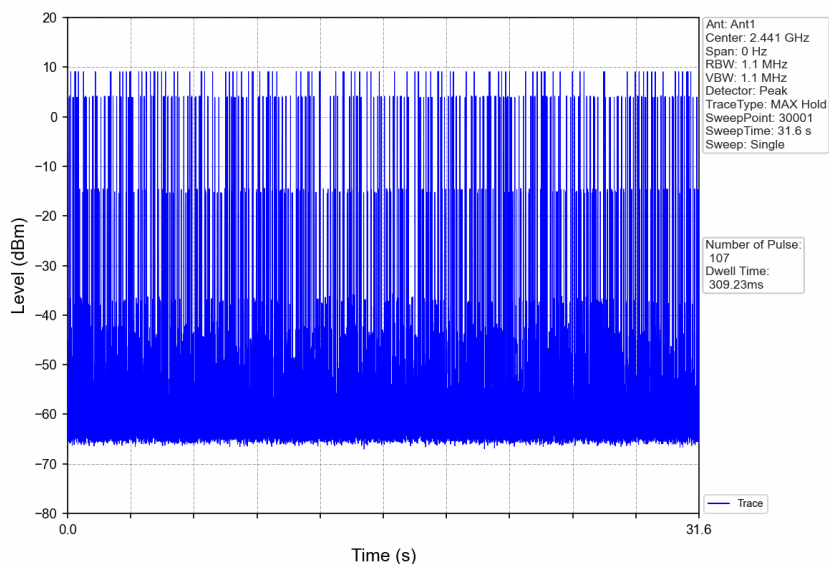
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Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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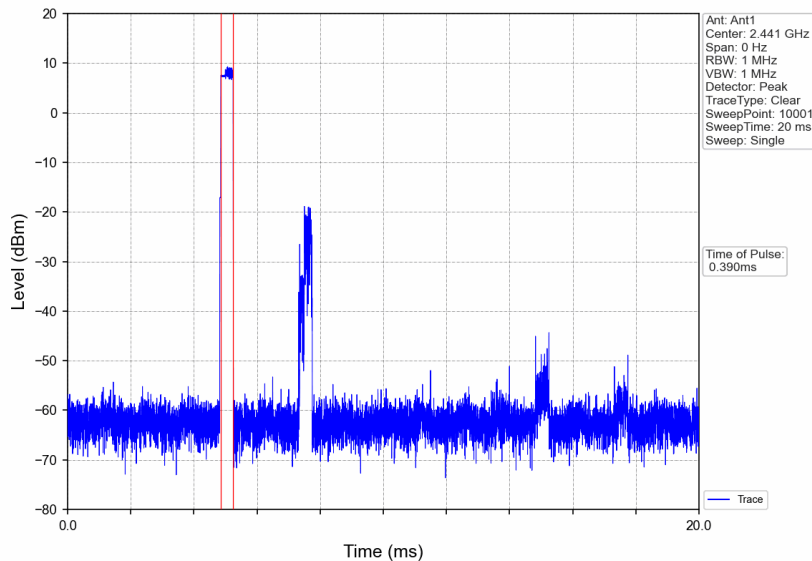
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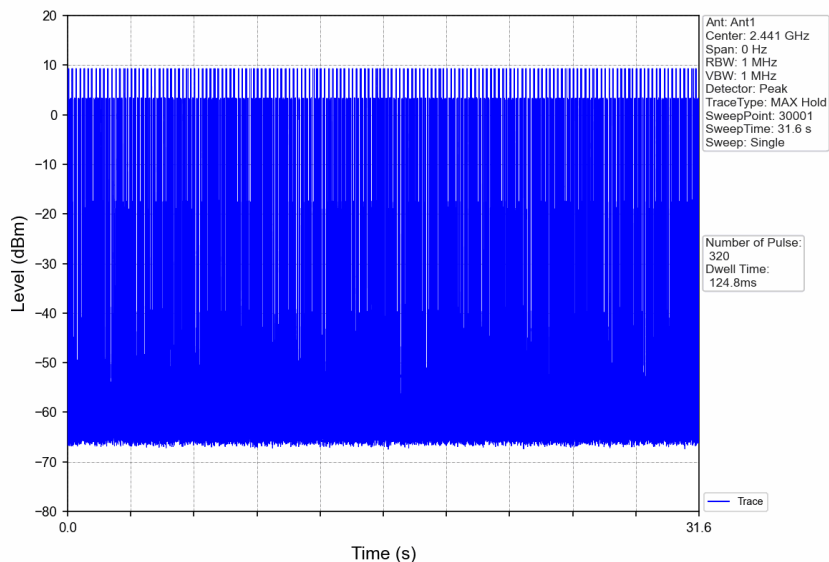
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8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



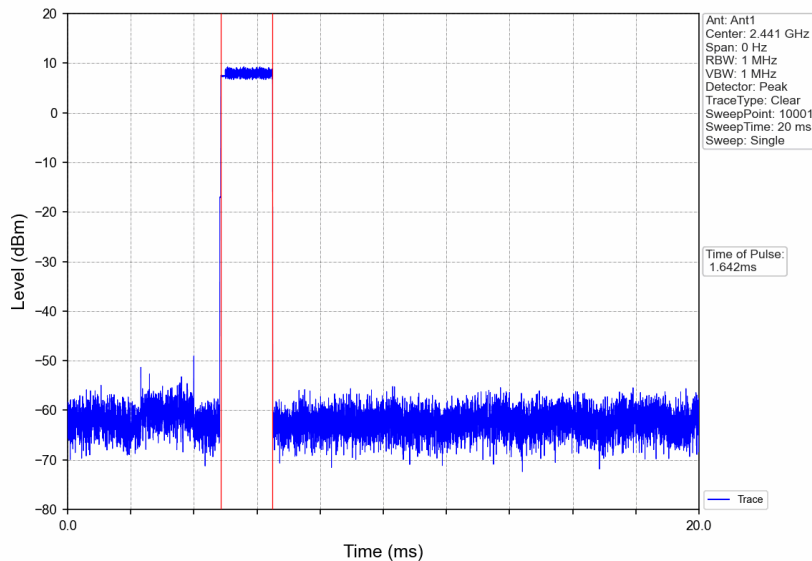
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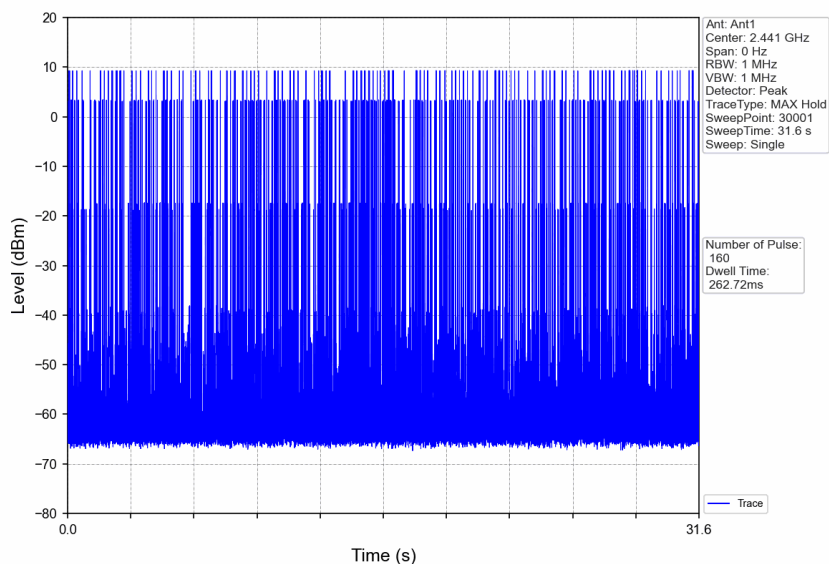
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8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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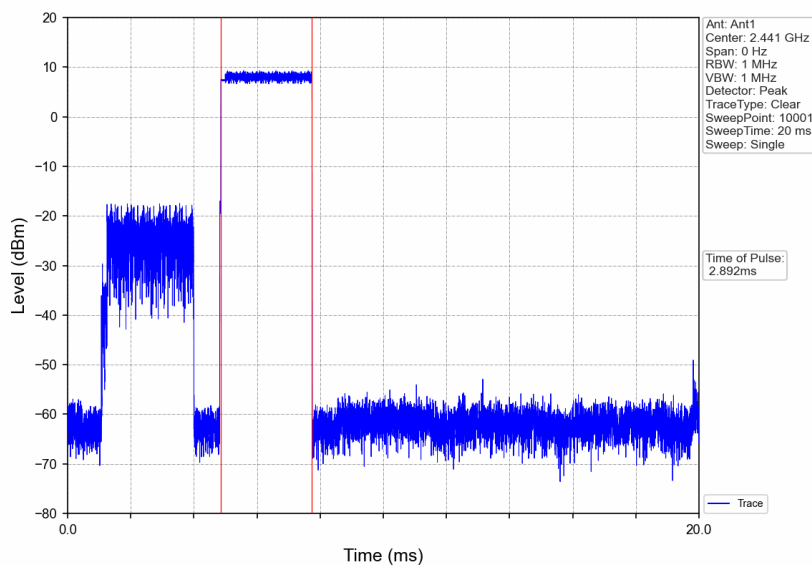
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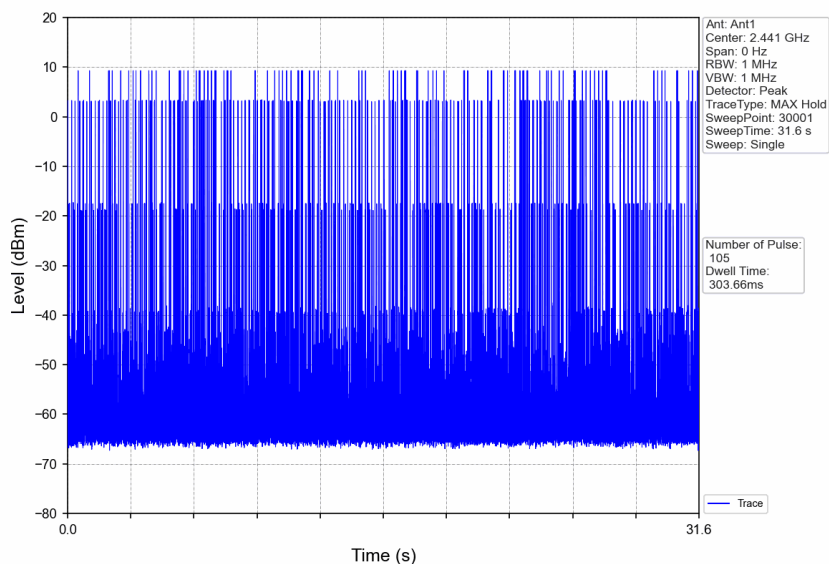
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8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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## 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	7.97
		2441	DH5	1	8.10
		2480	DH5	1	7.72
Pi/4DQPSK	SISO	2402	2DH5	1	4.62
		2441	2DH5	1	4.83
		2480	2DH5	1	4.42
8DPSK	SISO	2402	3DH5	1	4.63
		2441	3DH5	1	4.83
		2480	3DH5	1	4.42

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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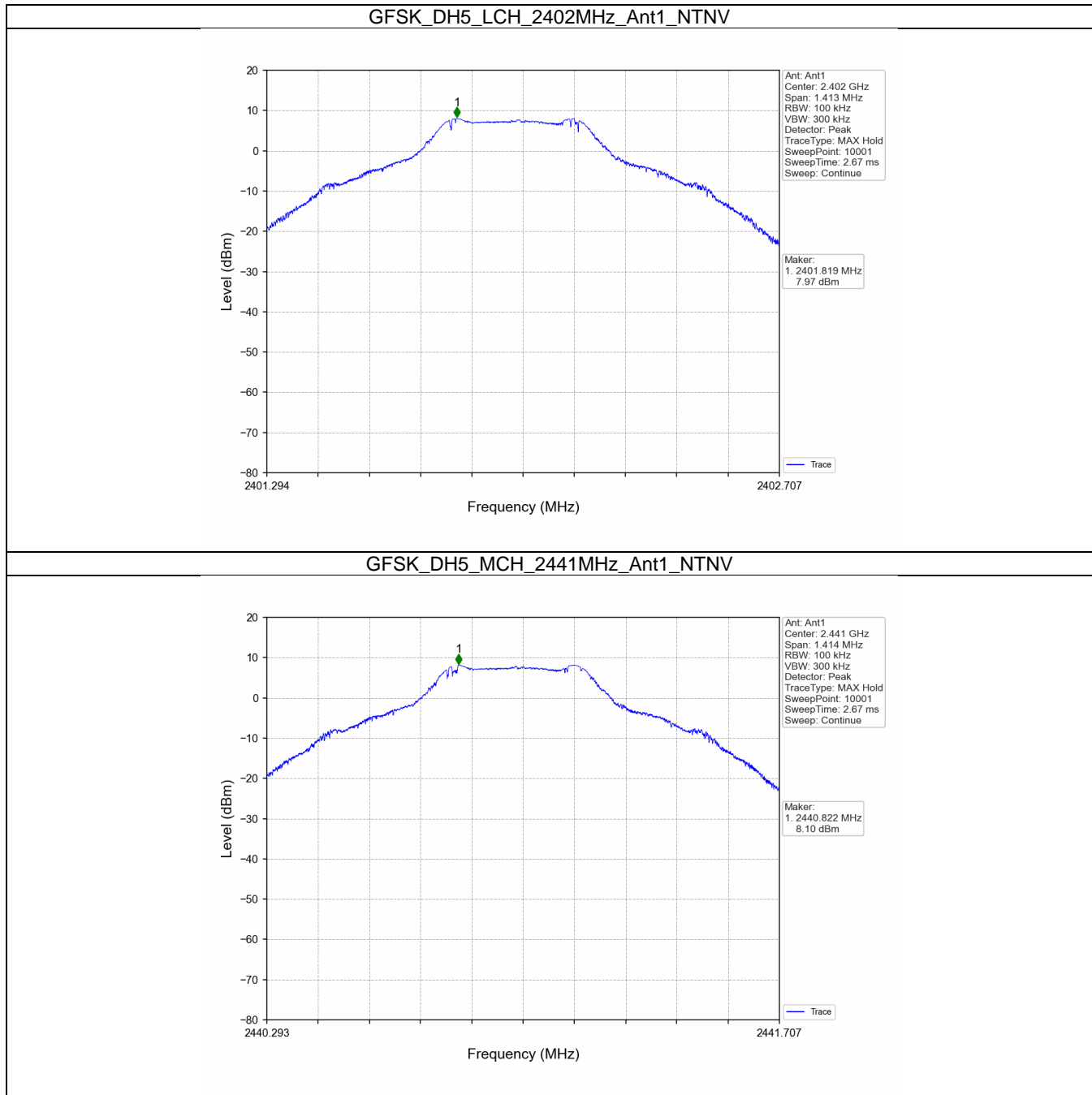
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## 6.1.2 Test Graph



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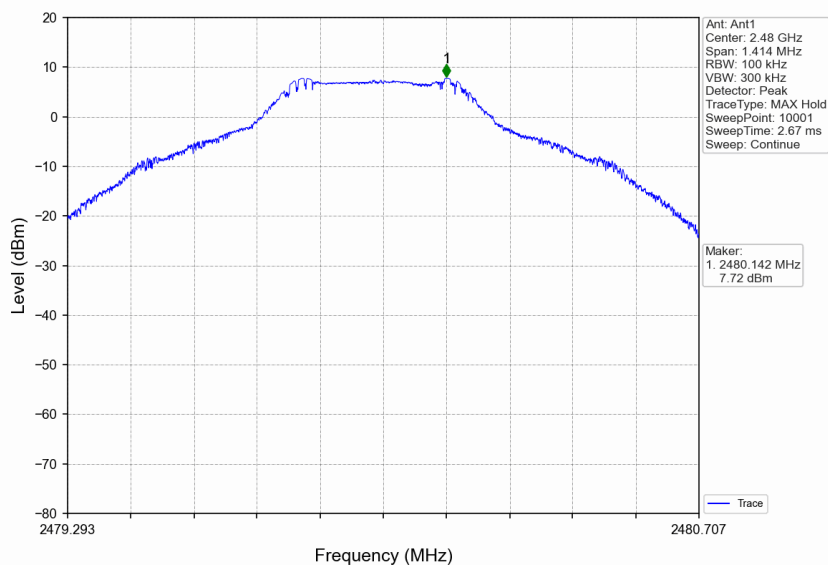
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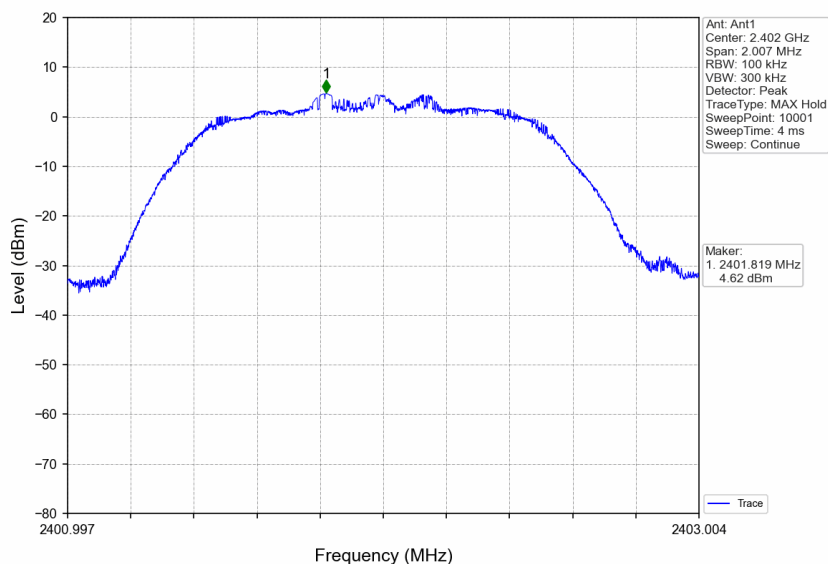
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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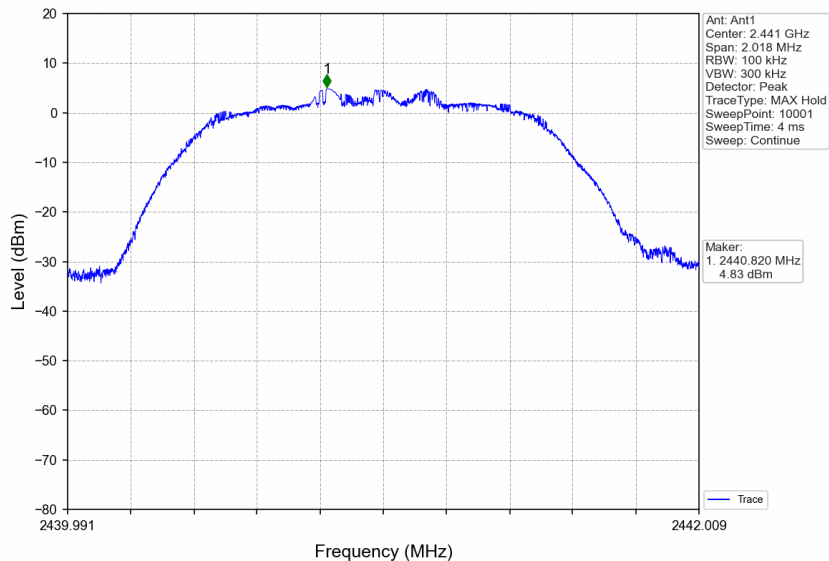
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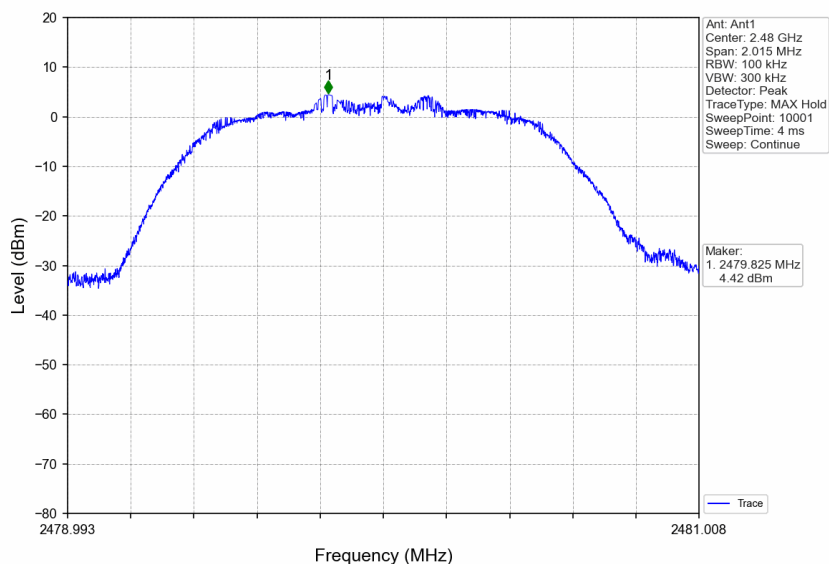
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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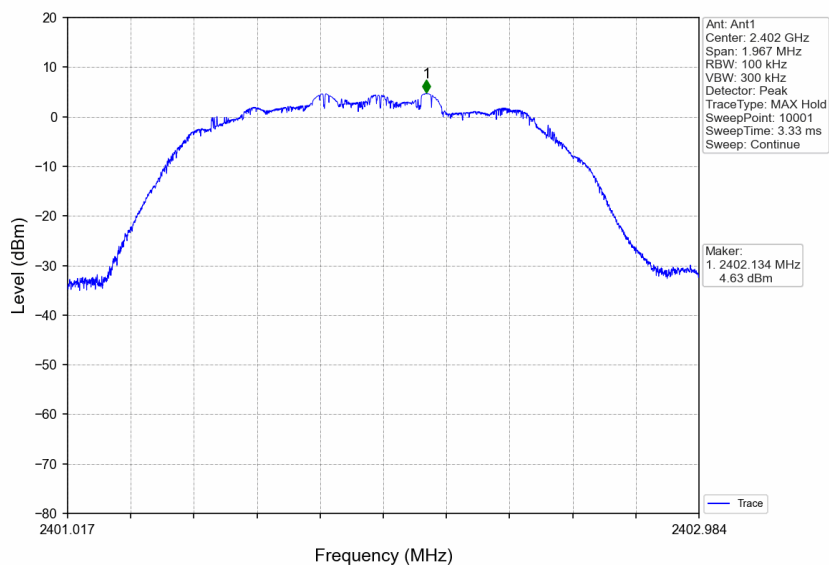
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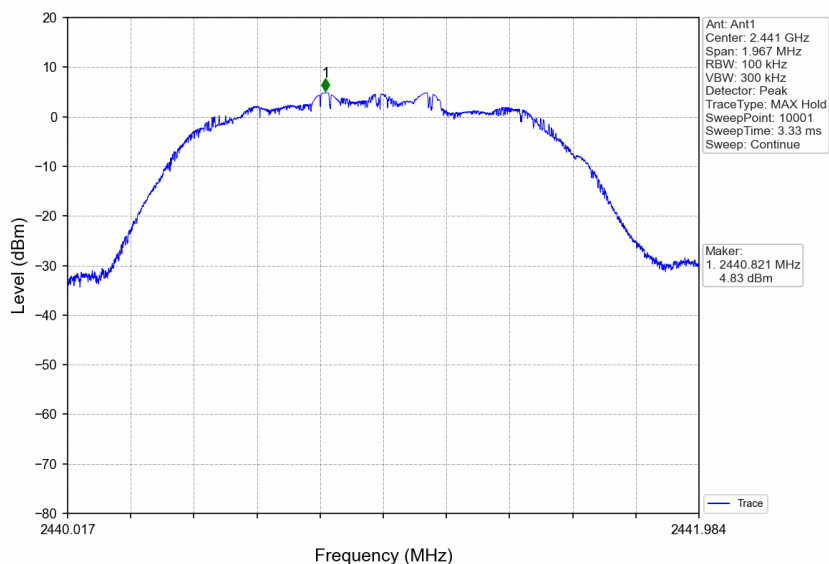
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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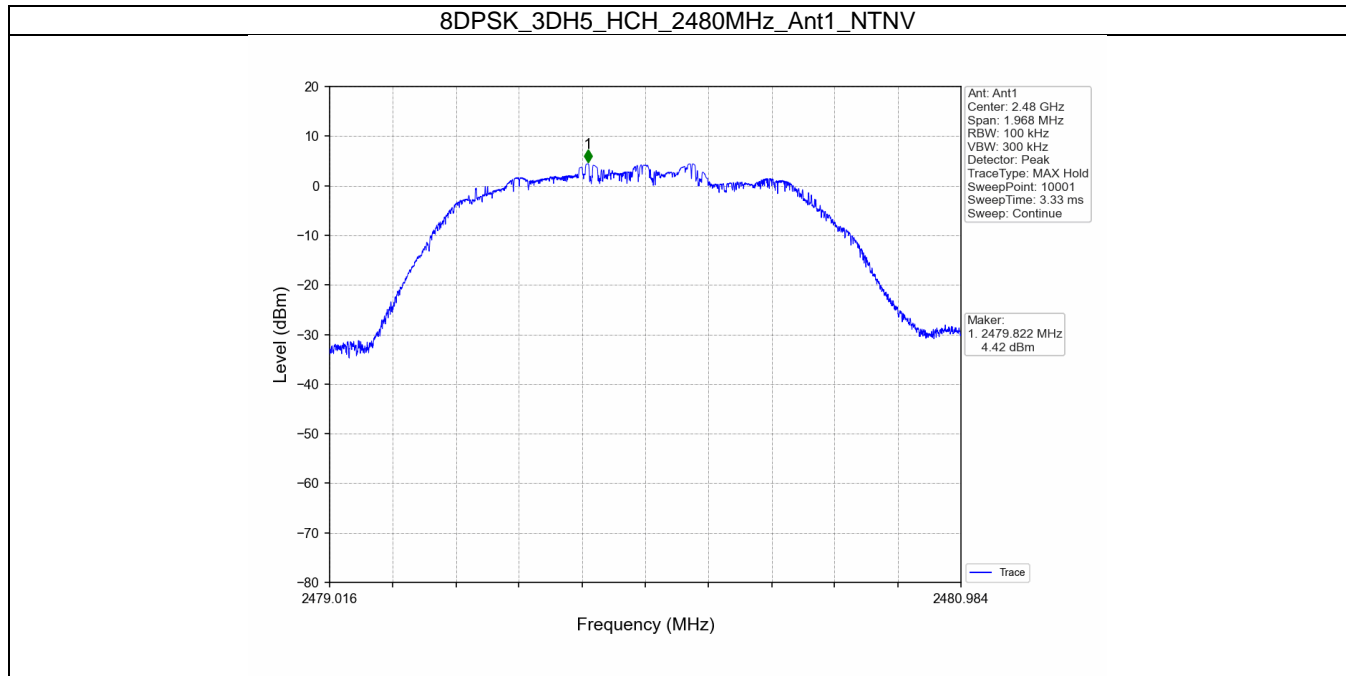
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## 6.2 CSE

### 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	8.10	-11.90	Pass
		2441	DH5	1	8.10	-11.90	Pass
		2480	DH5	1	8.10	-11.90	Pass
		HOPP	DH5	1	8.10	-11.90	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	4.83	-15.17	Pass
		2441	2DH5	1	4.83	-15.17	Pass
		2480	2DH5	1	4.83	-15.17	Pass
		HOPP	2DH5	1	4.83	-15.17	Pass
8DPSK	SISO	2402	3DH5	1	4.83	-15.17	Pass
		2441	3DH5	1	4.83	-15.17	Pass
		2480	3DH5	1	4.83	-15.17	Pass
		HOPP	3DH5	1	4.83	-15.17	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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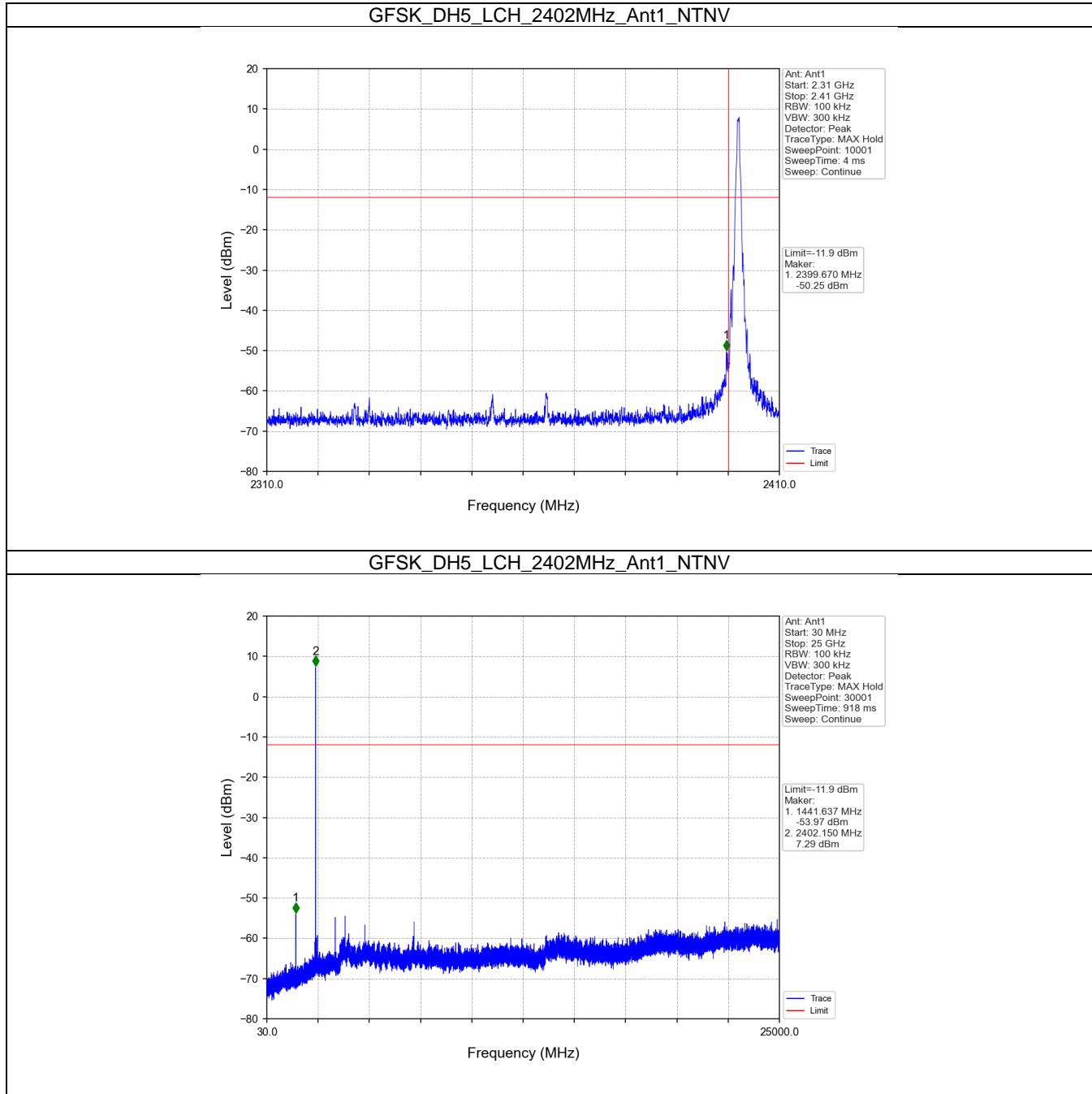
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## 6.2.2 Test Graph



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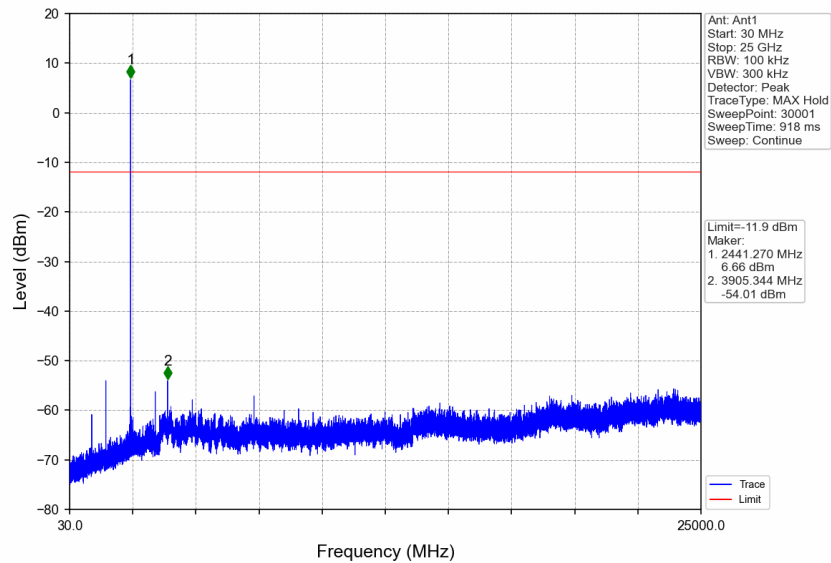
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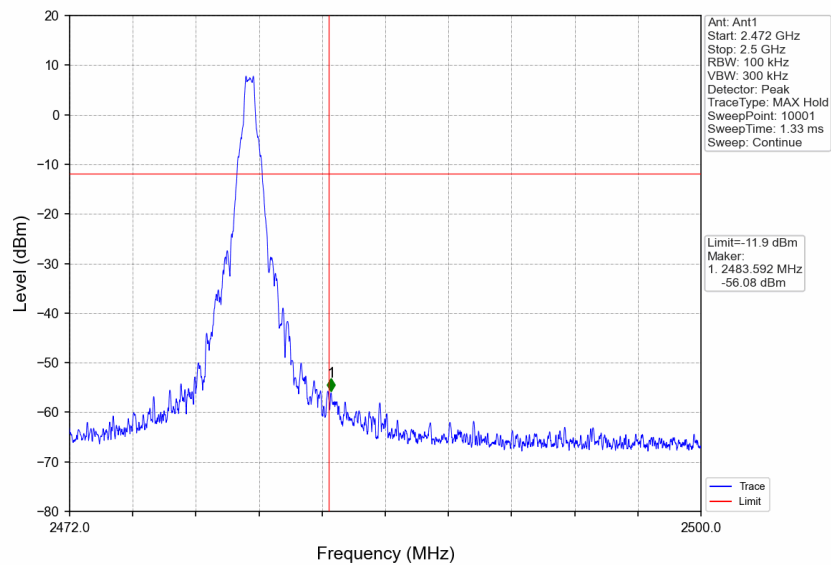
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## GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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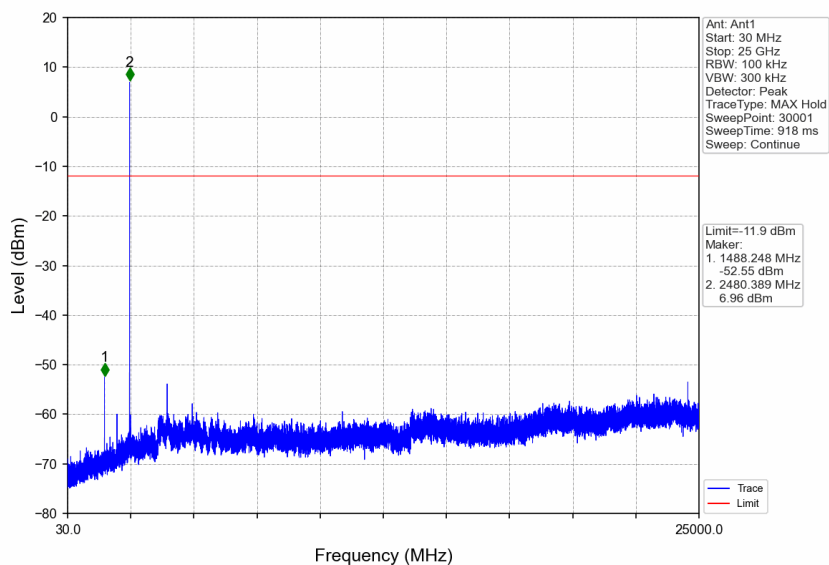
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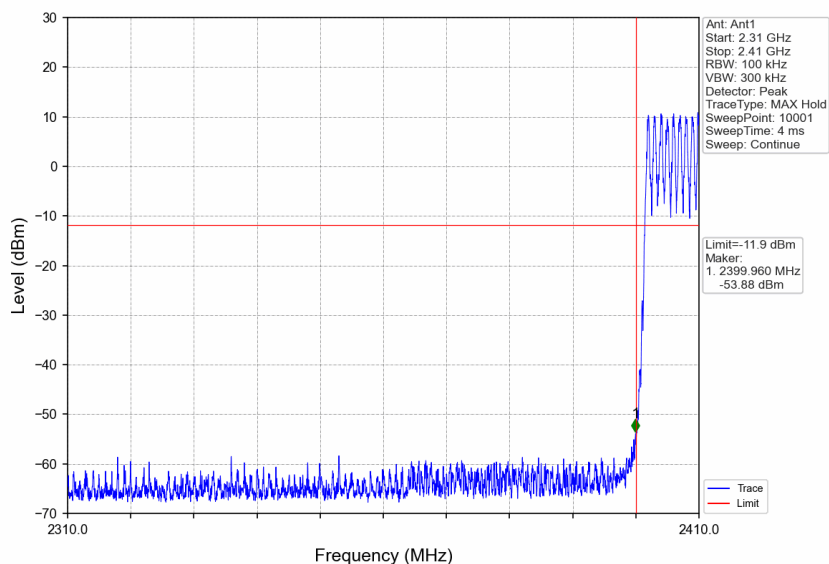
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## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



## GFSK\_DH5\_HOPP\_Ant1\_NTNV



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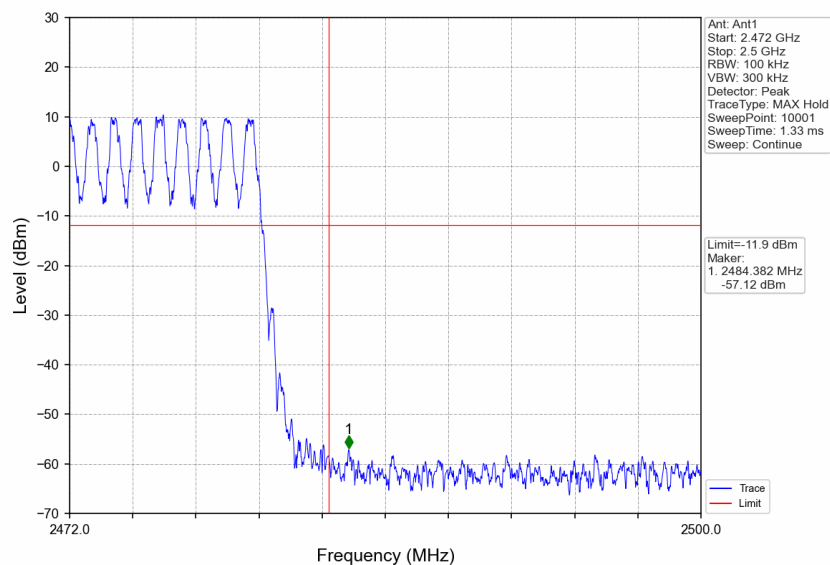
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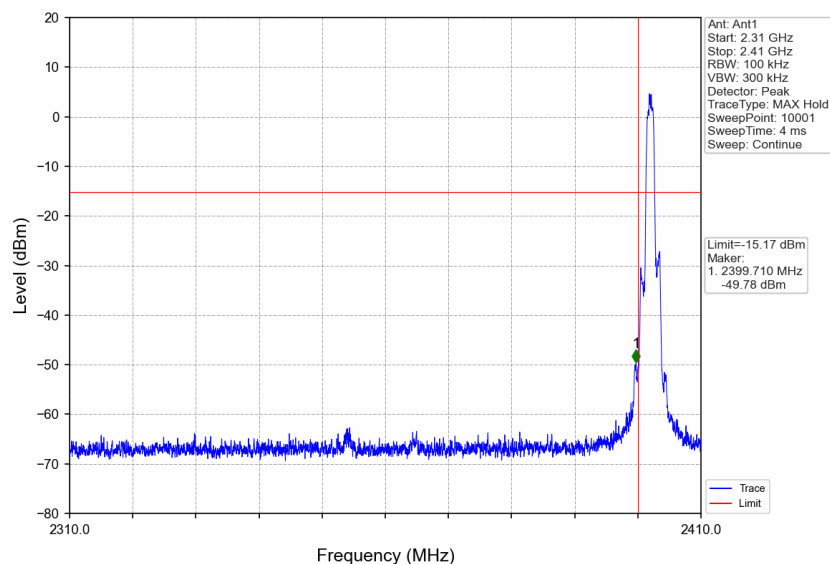
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GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



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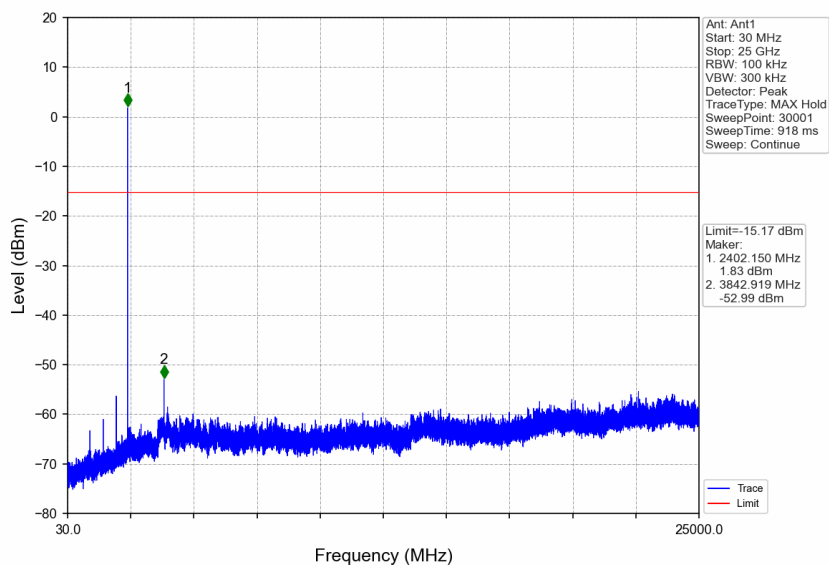
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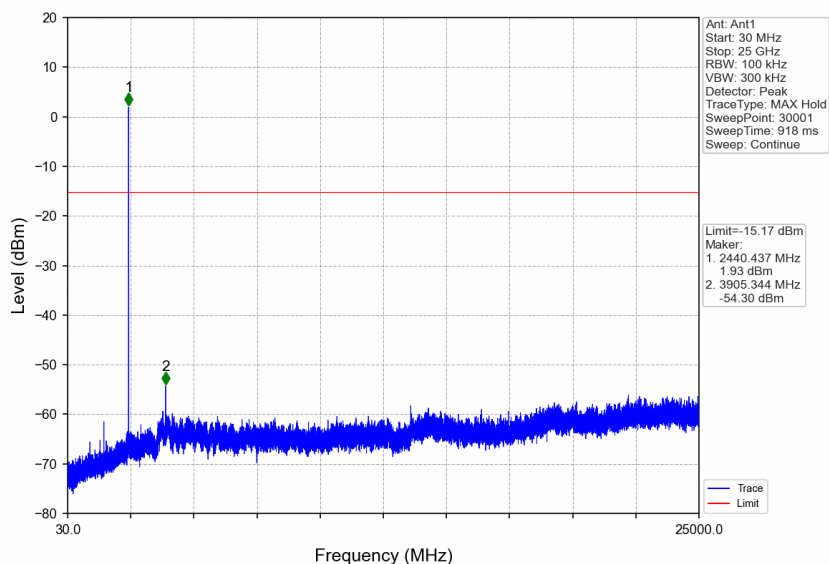
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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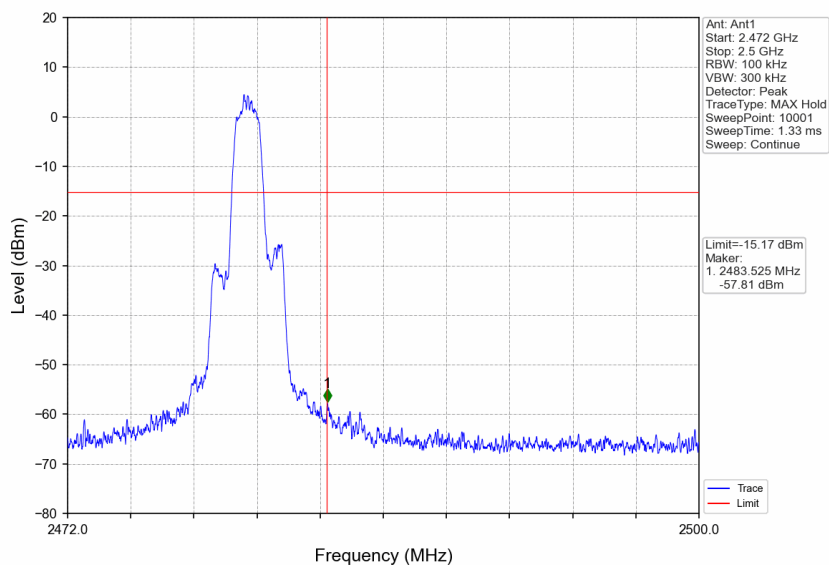
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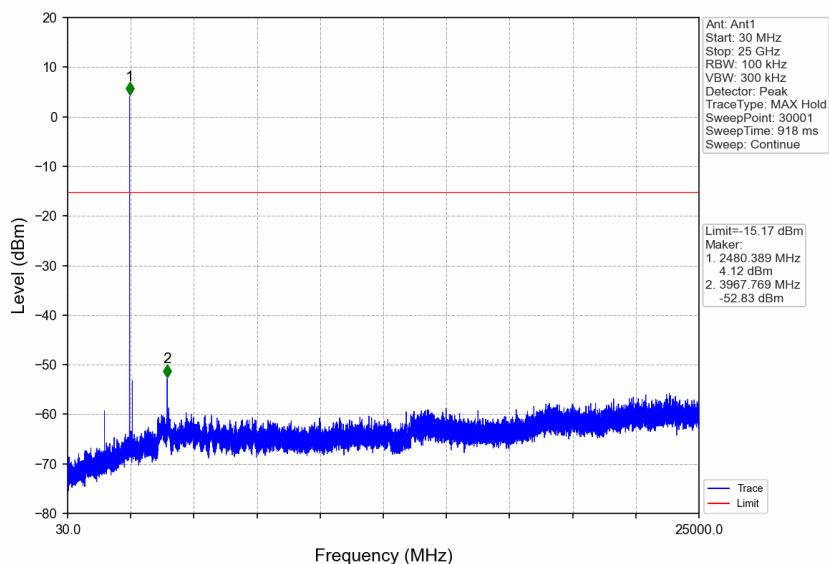
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Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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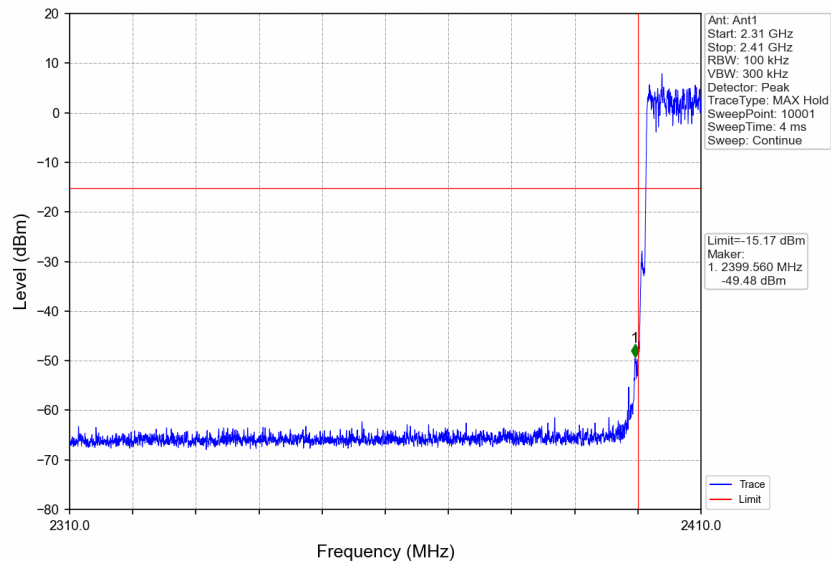
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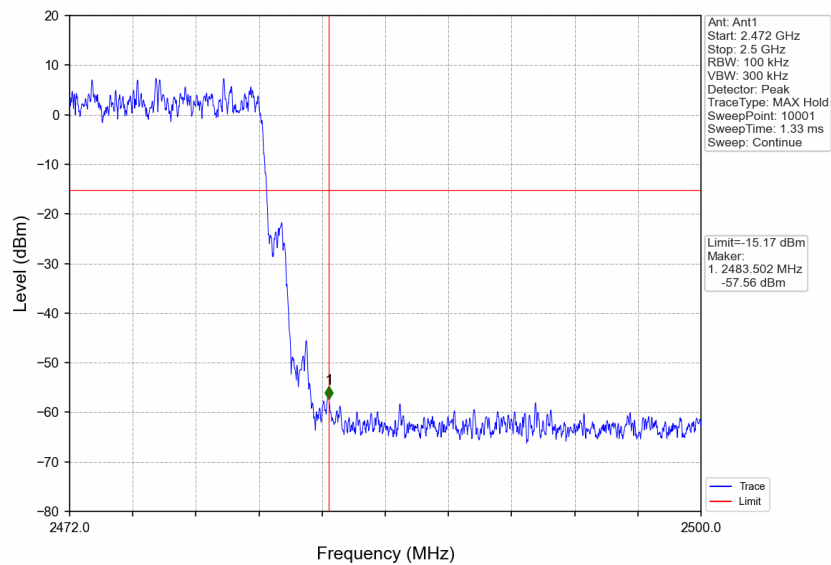
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Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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



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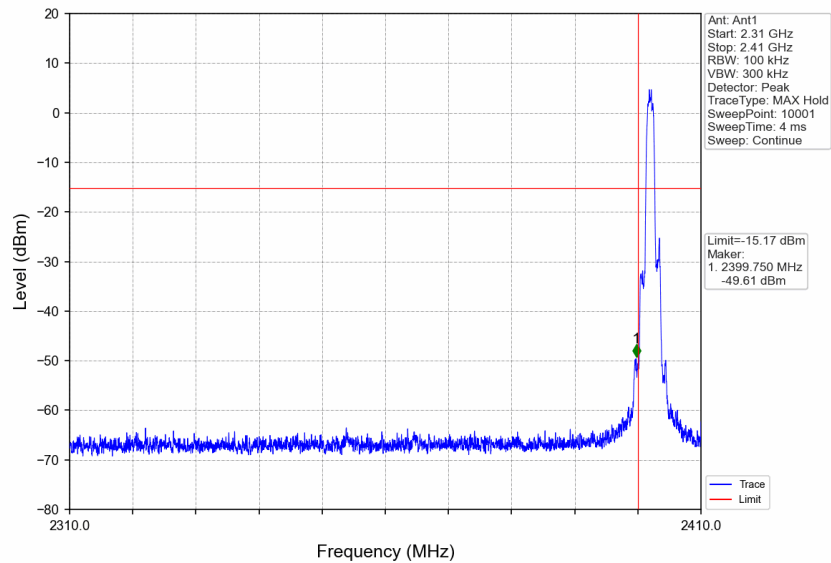
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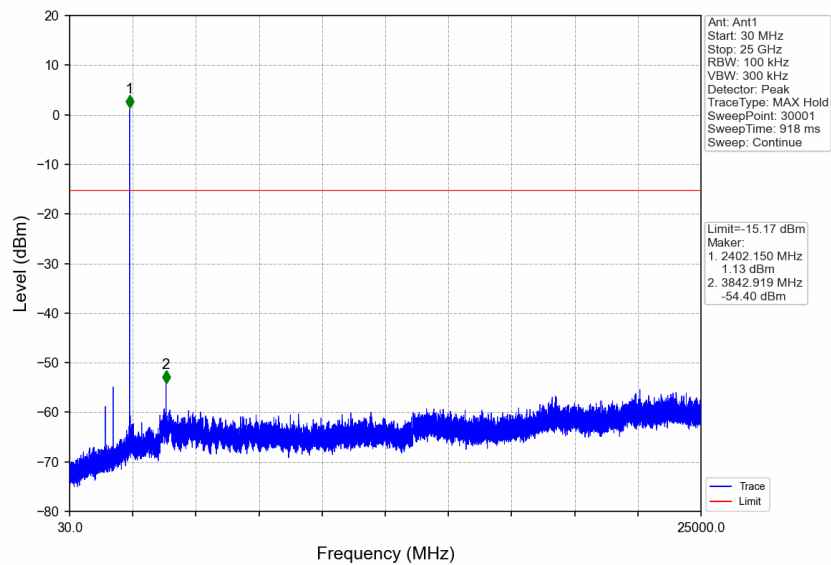
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## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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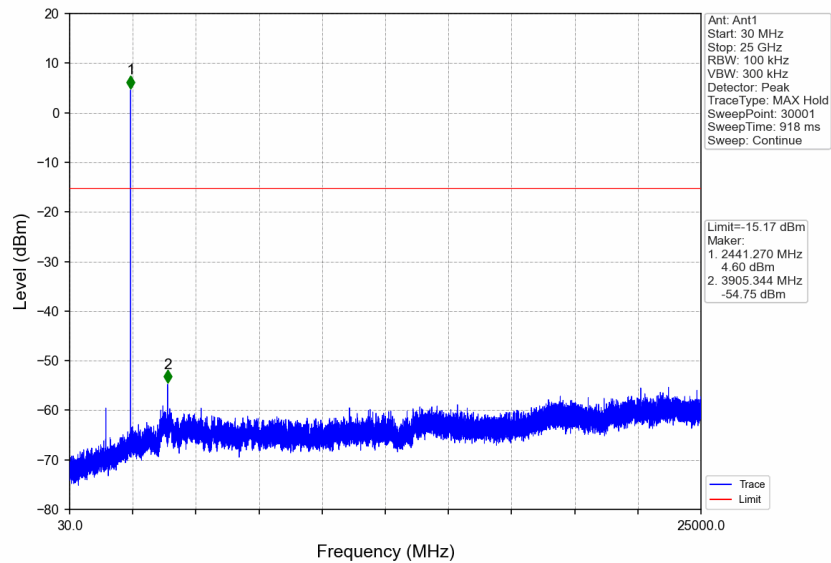
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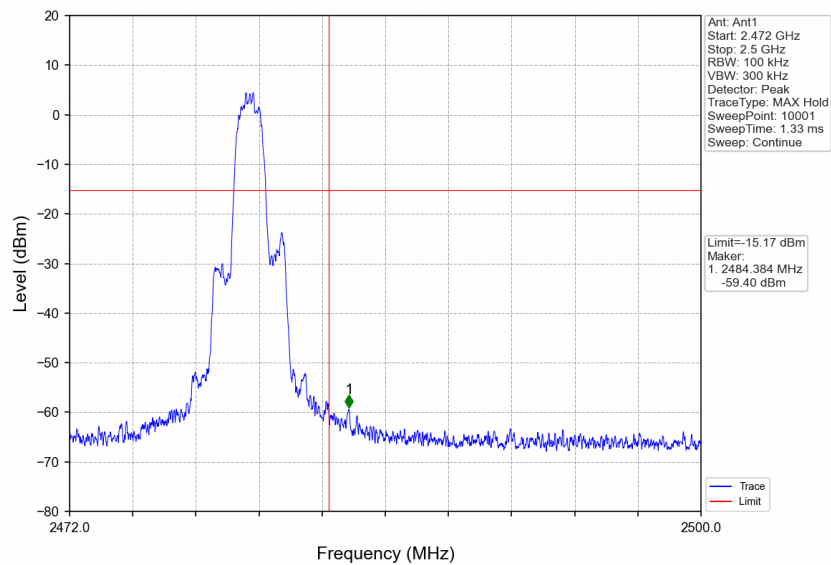
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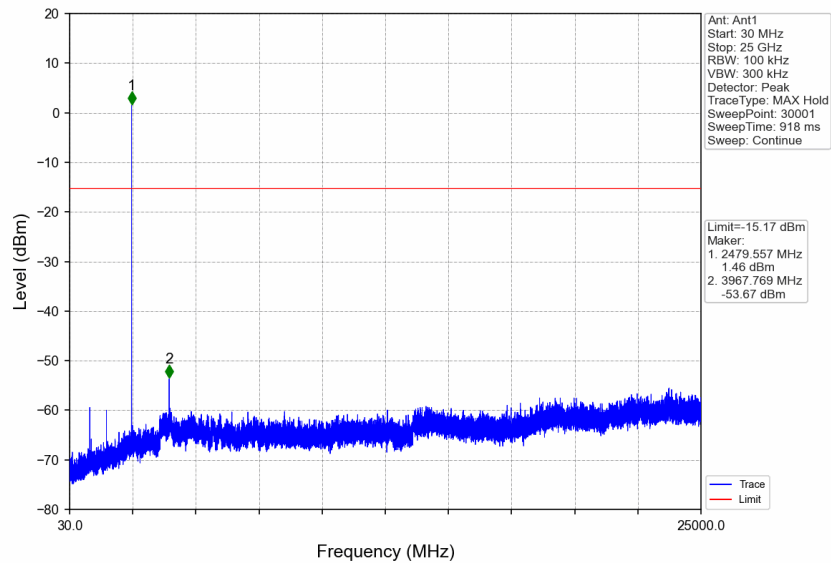
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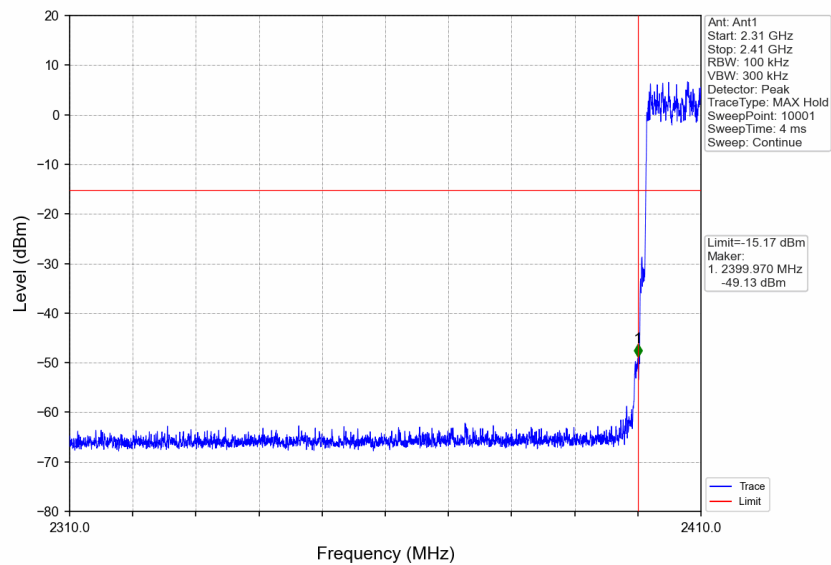
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## 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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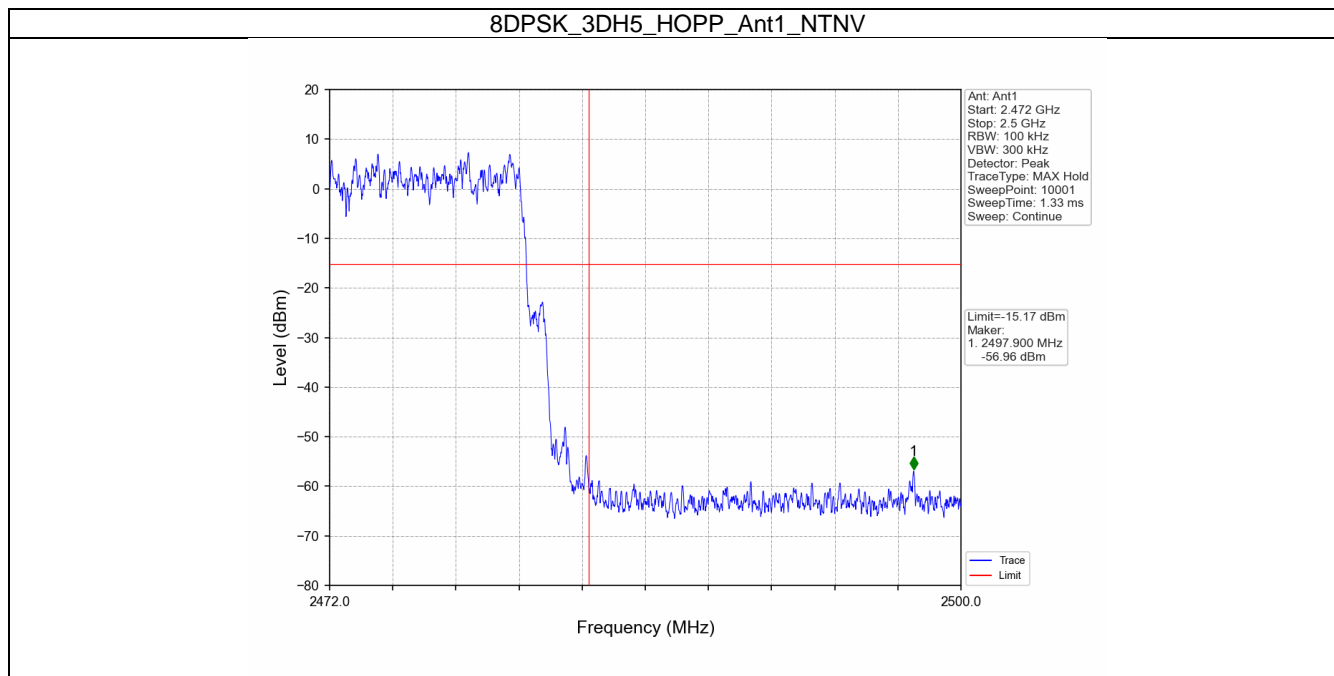
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