

## Appendix B for SHEM210400289602

### 1. Bandwidth

#### 1.1 OBW

##### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
GFSK	SISO	2402	DH5	1	0.89	/	Note1
		2441	DH5	1	0.89	/	Note1
		2480	DH5	1	0.89	/	Note1
Pi/4DQPSK	SISO	2402	2DH5	1	1.19	/	Note1
		2441	2DH5	1	1.19	/	Note1
		2480	2DH5	1	1.19	/	Note1
8DPSK	SISO	2402	3DH5	1	1.19	/	Note1
		2441	3DH5	1	1.19	/	Note1
		2480	3DH5	1	1.19	/	Note1

Note1: Only for Report Use

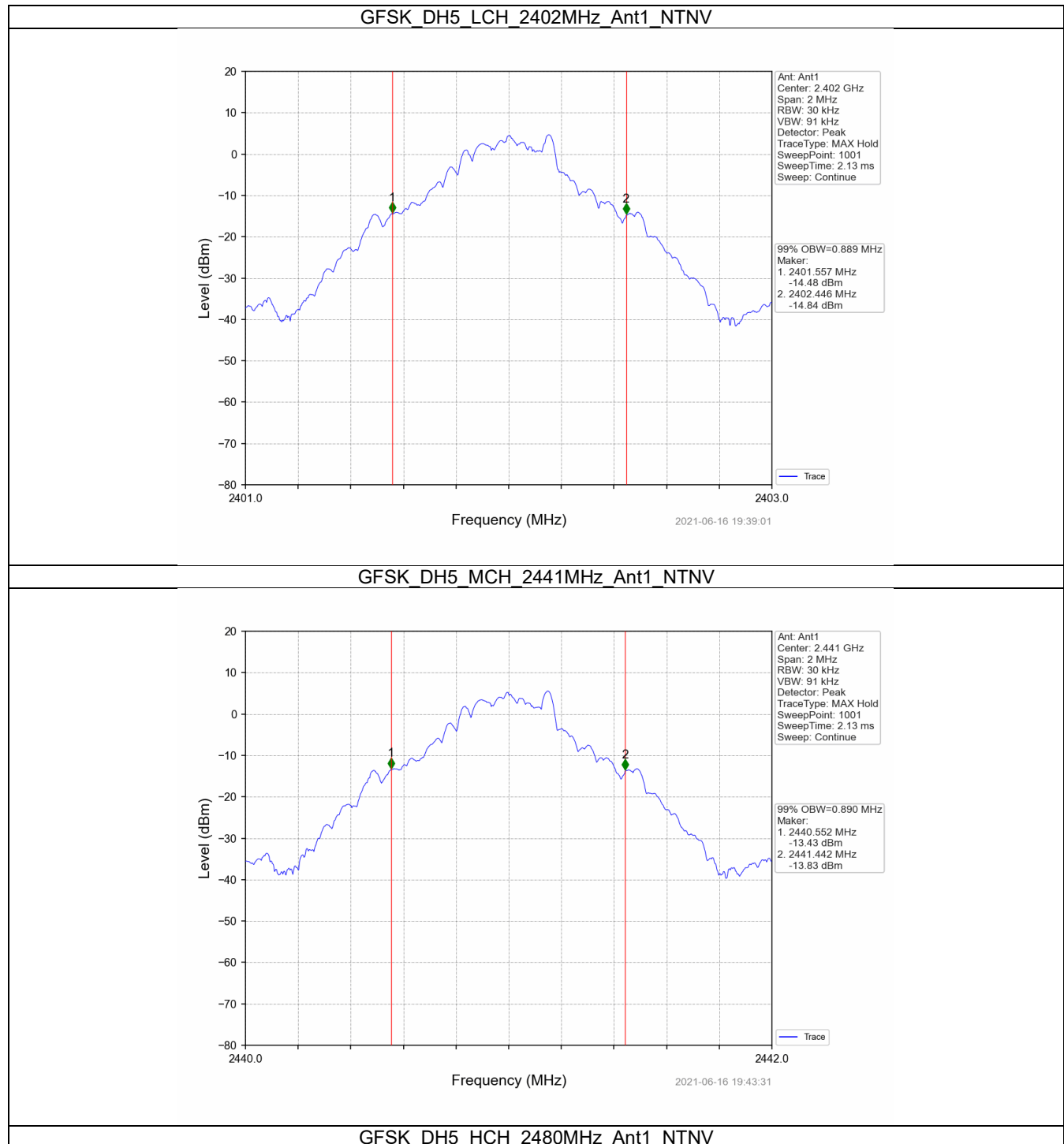


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## 1.1.2 Test Graph



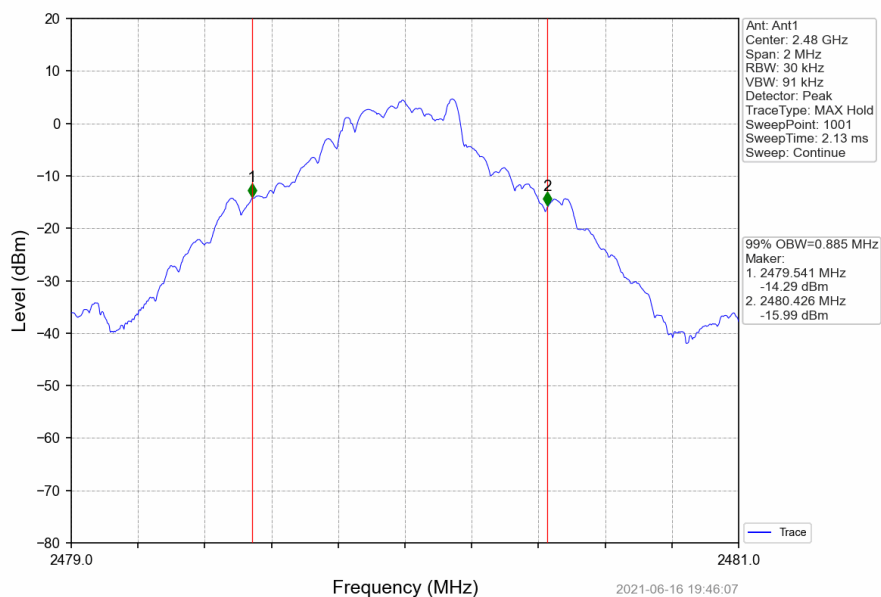
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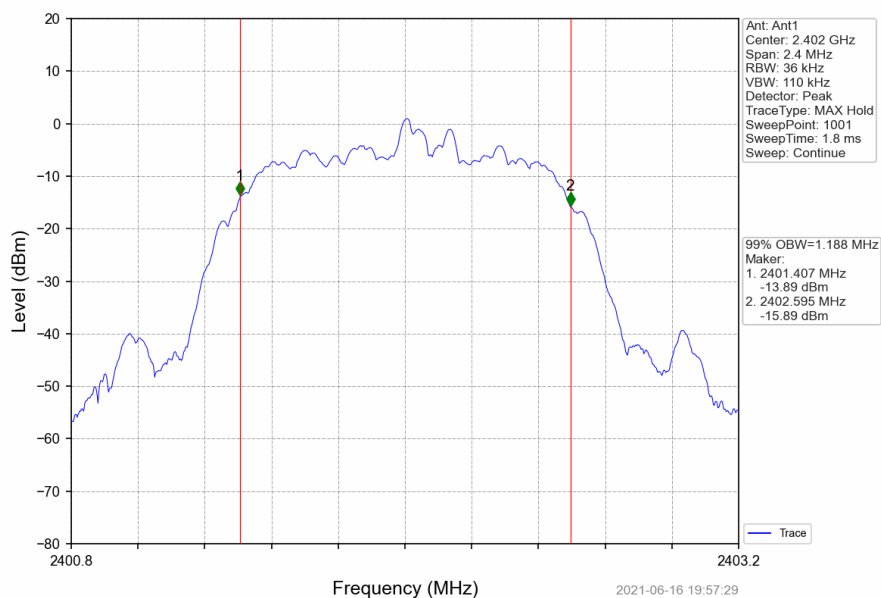
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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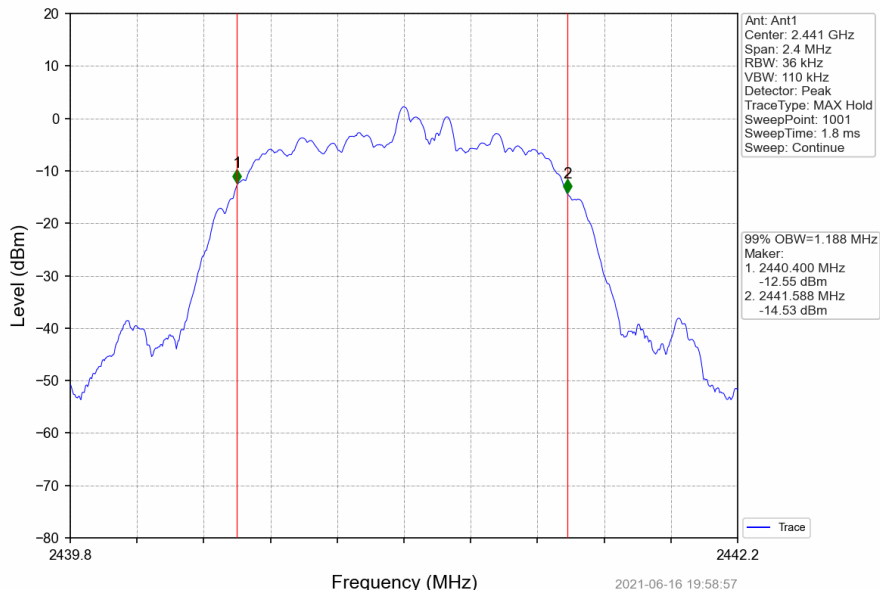
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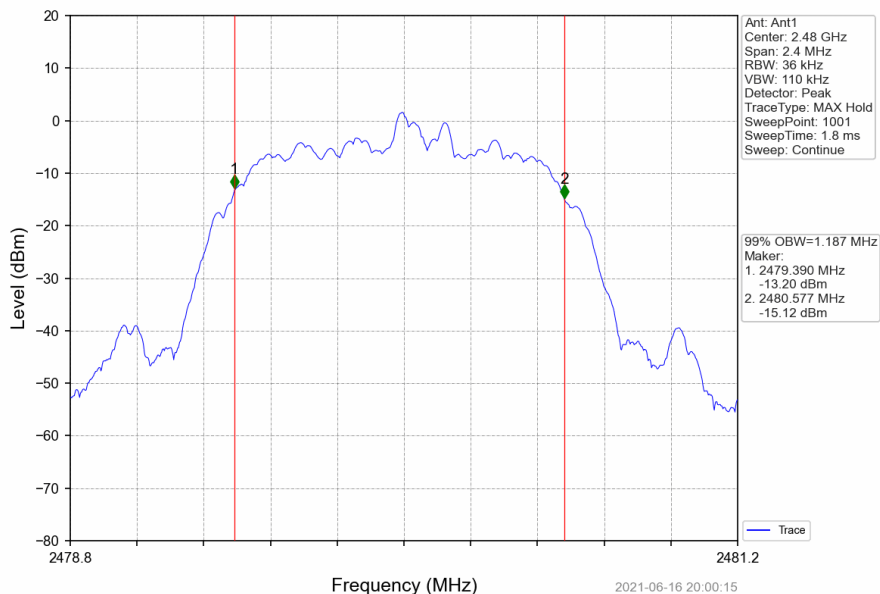
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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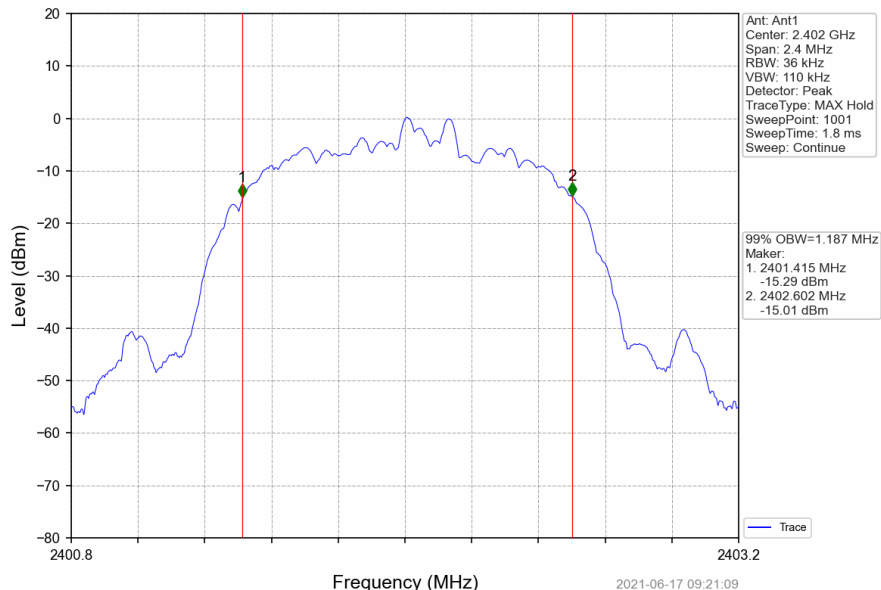
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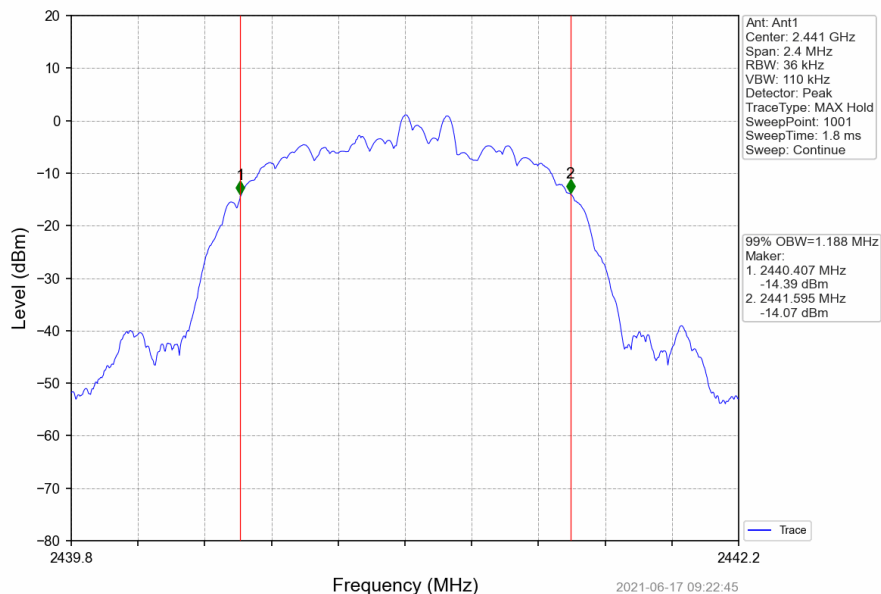
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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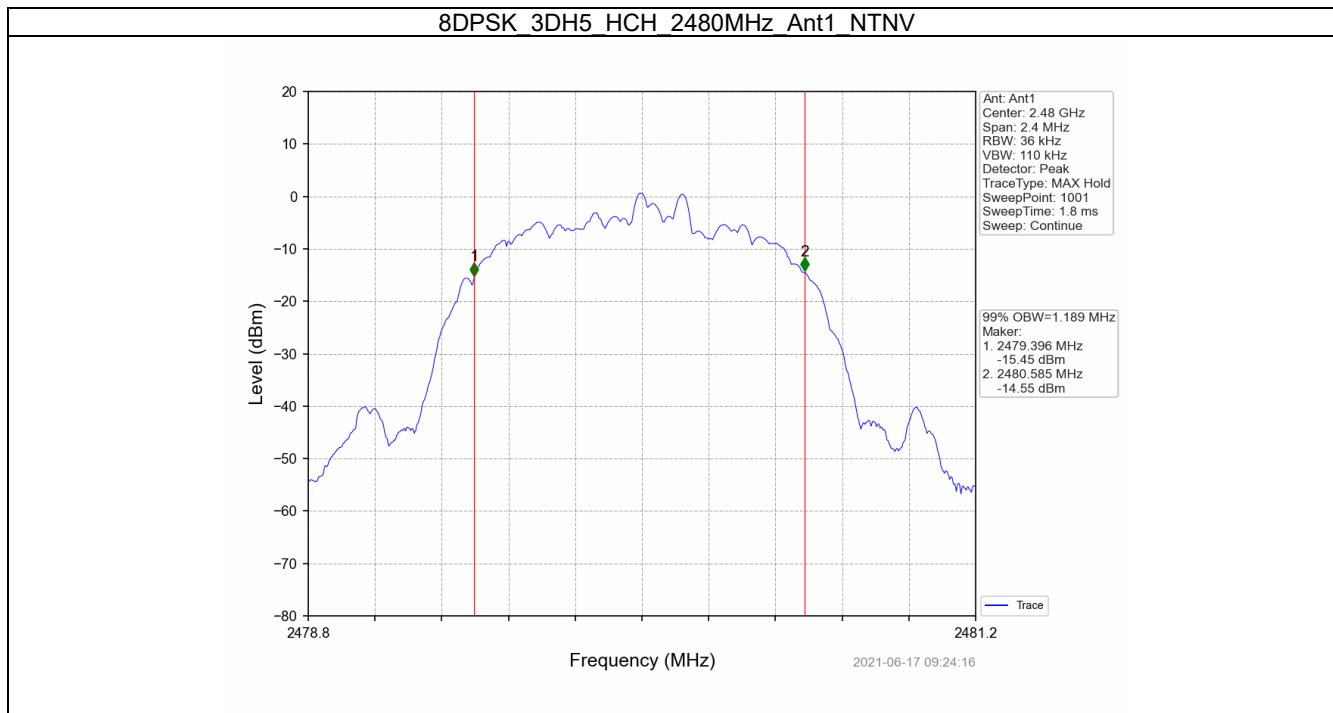
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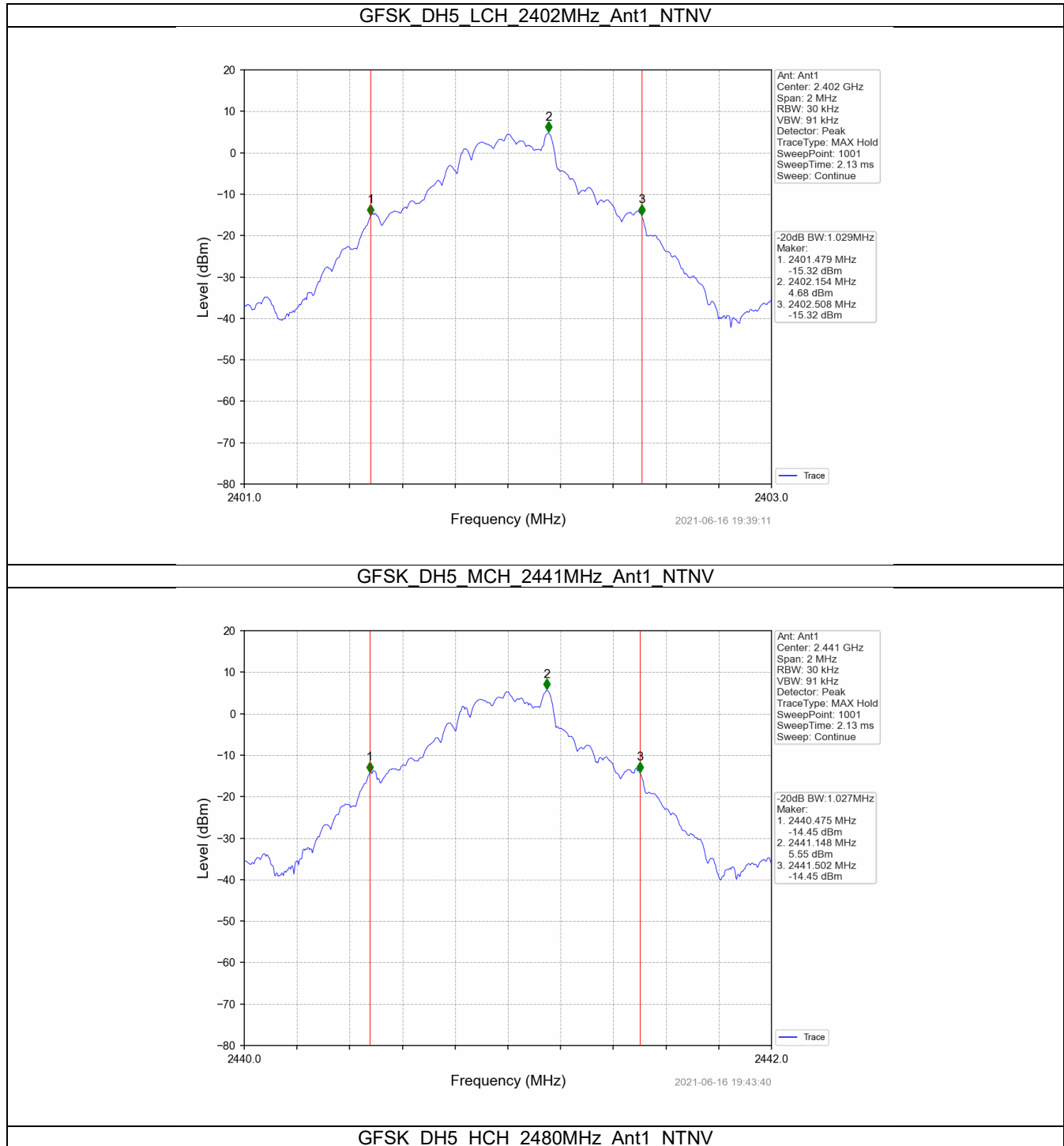
## 1.2 20dB BW

## 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Limit	Verdict
GFSK	SISO	2402	DH5	1	1.03	/	Note1
		2441	DH5	1	1.03	/	Note1
		2480	DH5	1	1.03	/	Note1
Pi/4DQPSK	SISO	2402	2DH5	1	1.32	/	Note1
		2441	2DH5	1	1.35	/	Note1
		2480	2DH5	1	1.33	/	Note1
8DPSK	SISO	2402	3DH5	1	1.31	/	Note1
		2441	3DH5	1	1.31	/	Note1
		2480	3DH5	1	1.31	/	Note1
Note1: Only for Report Use							



## 1.2.2 Test Graph



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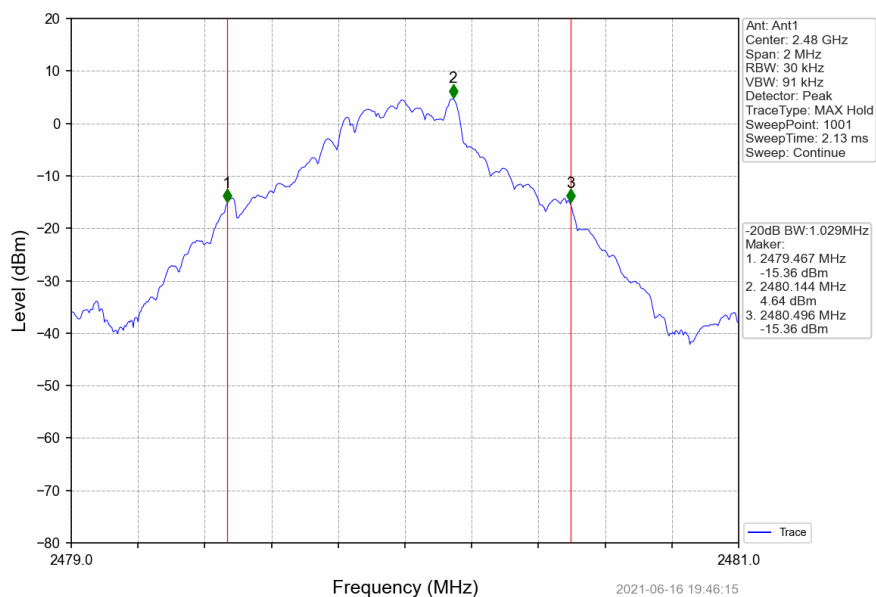
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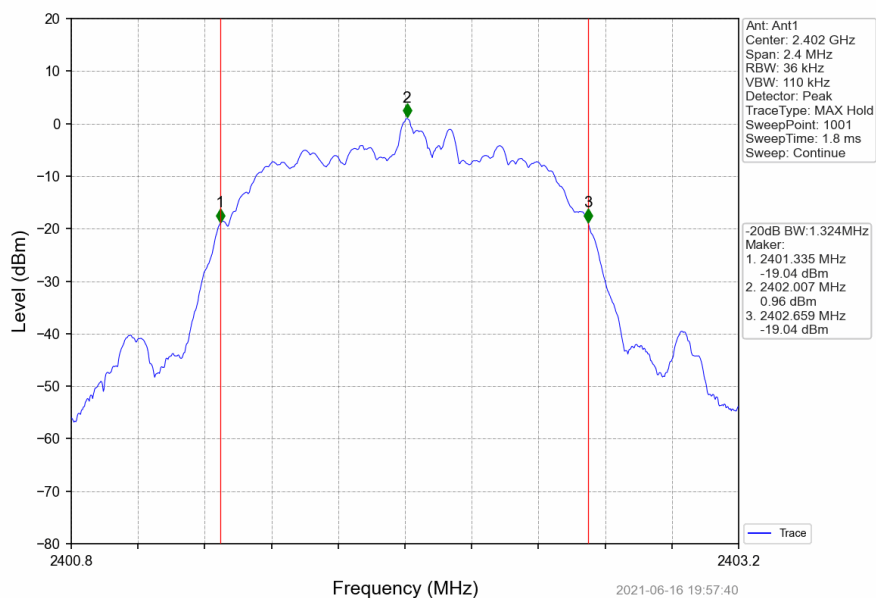
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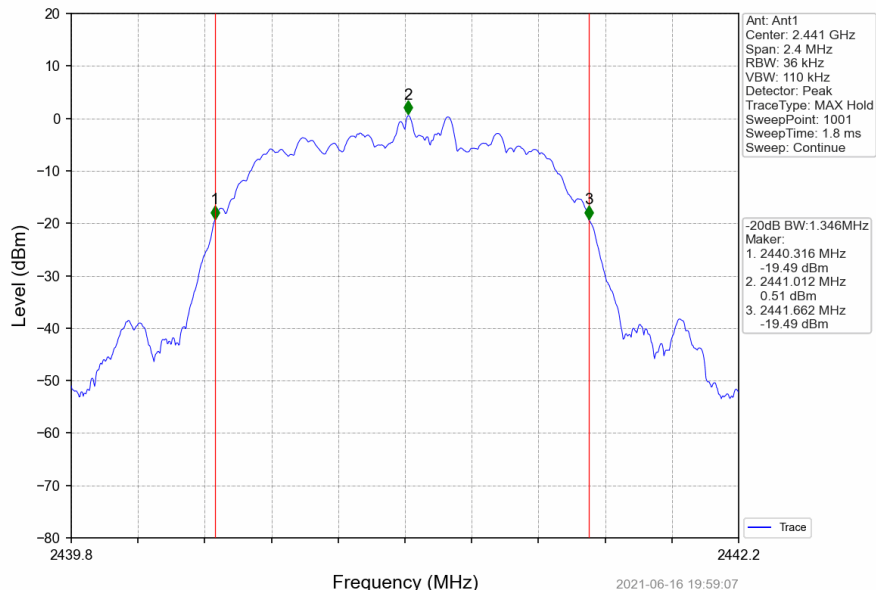
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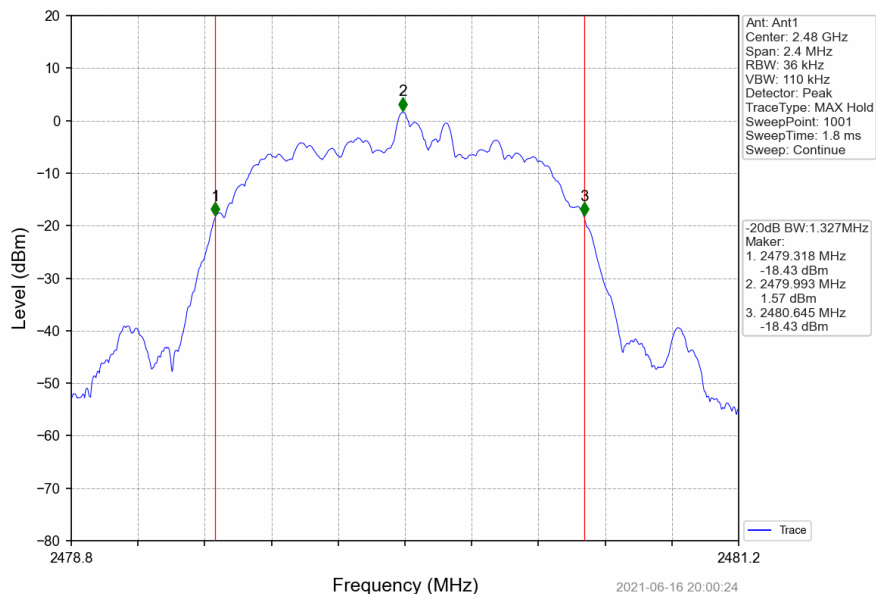
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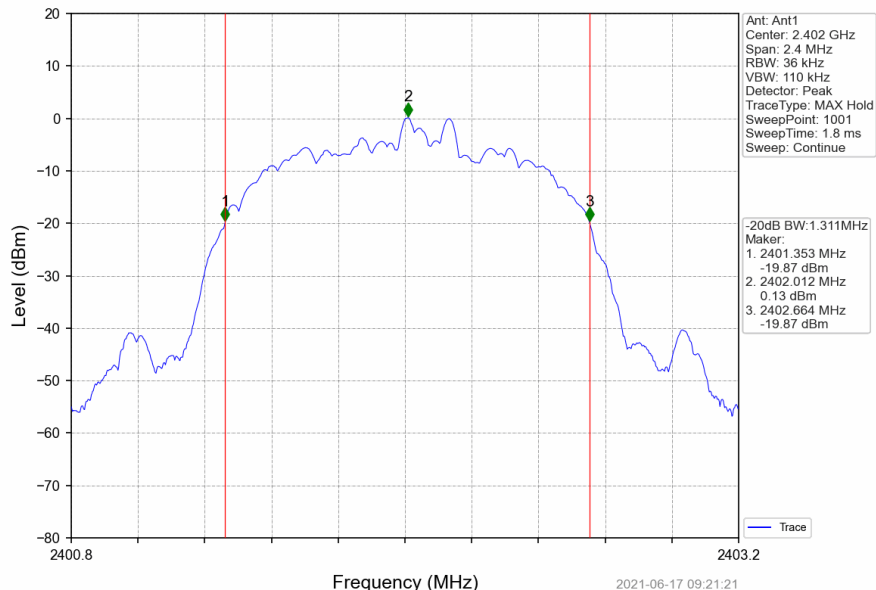
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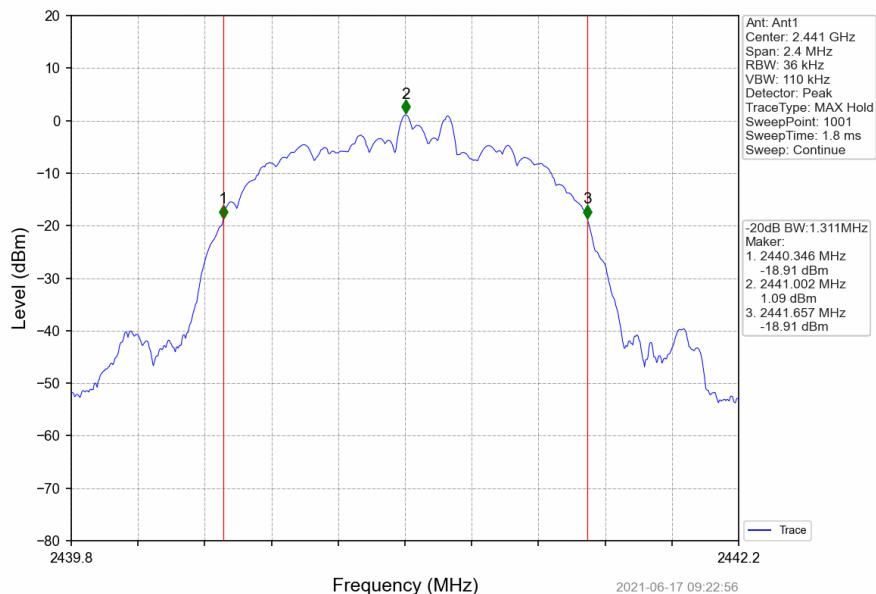
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



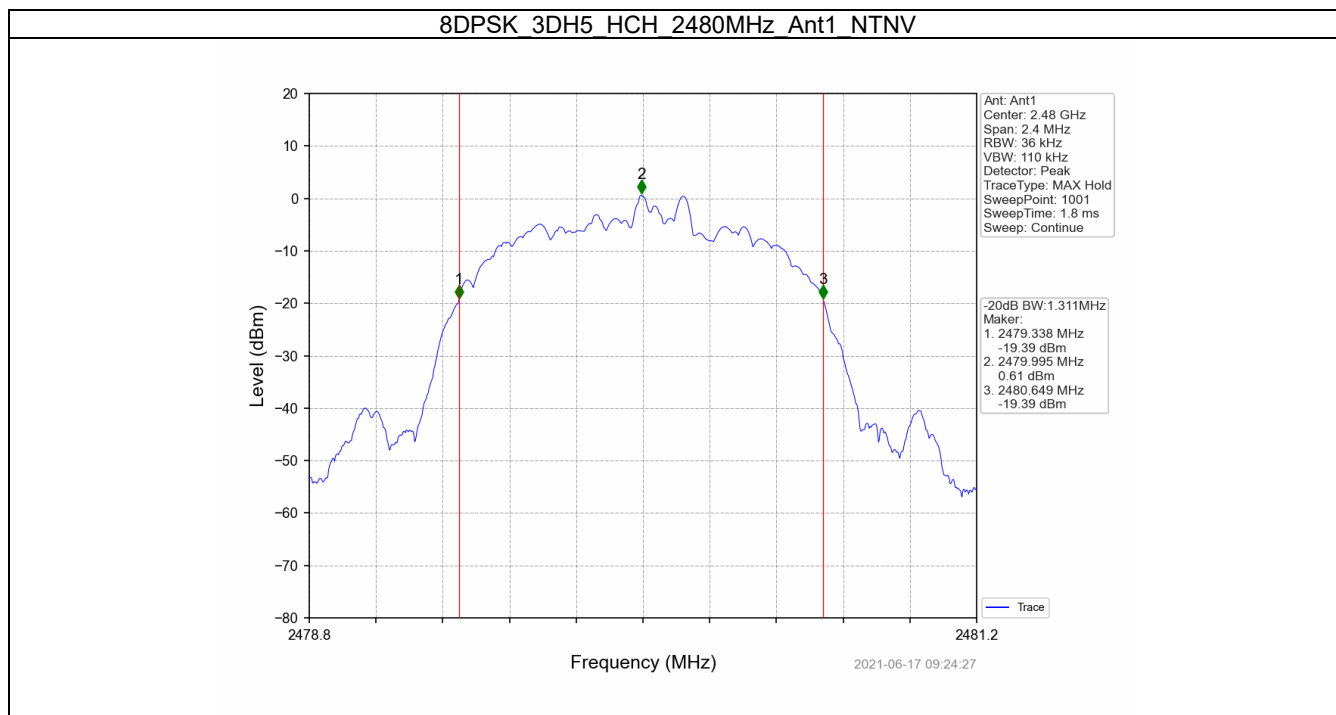
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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Measured Peak Output Power (dBm)	Limit (dBm)	Verdict
				Ant1		
GFSK	SISO	2402	DH5	5.93	<=20.97	Pass
		2441	DH5	6.73	<=20.97	Pass
		2480	DH5	5.94	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	4.17	<=20.97	Pass
		2441	2DH5	5.49	<=20.97	Pass
		2480	2DH5	4.72	<=20.97	Pass
8DPSK	SISO	2402	3DH5	3.89	<=20.97	Pass
		2441	3DH5	4.81	<=20.97	Pass
		2480	3DH5	4.23	<=20.97	Pass

Note1: Antenna Gain: 1: -5.58dBi;



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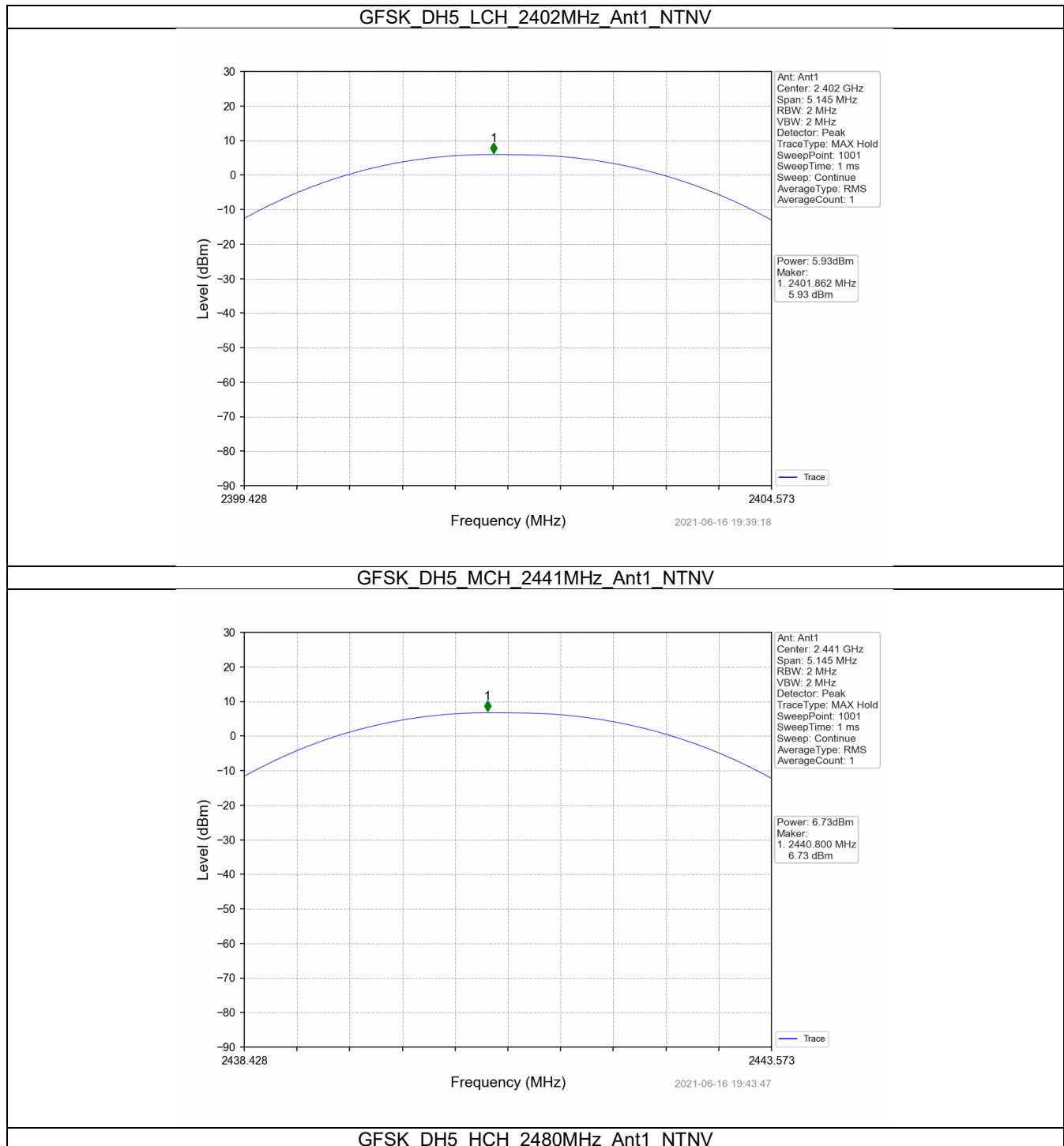
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## 2.1.2 Test Graph



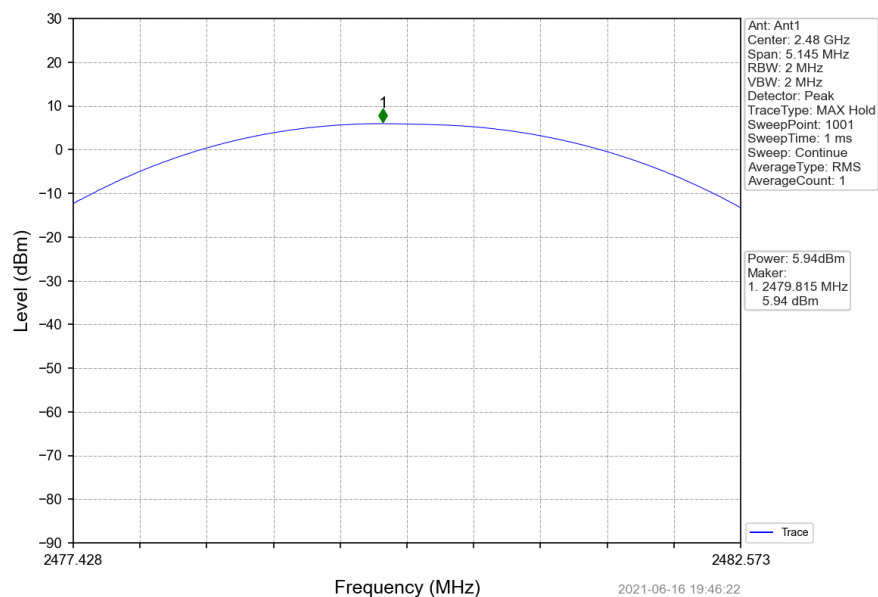
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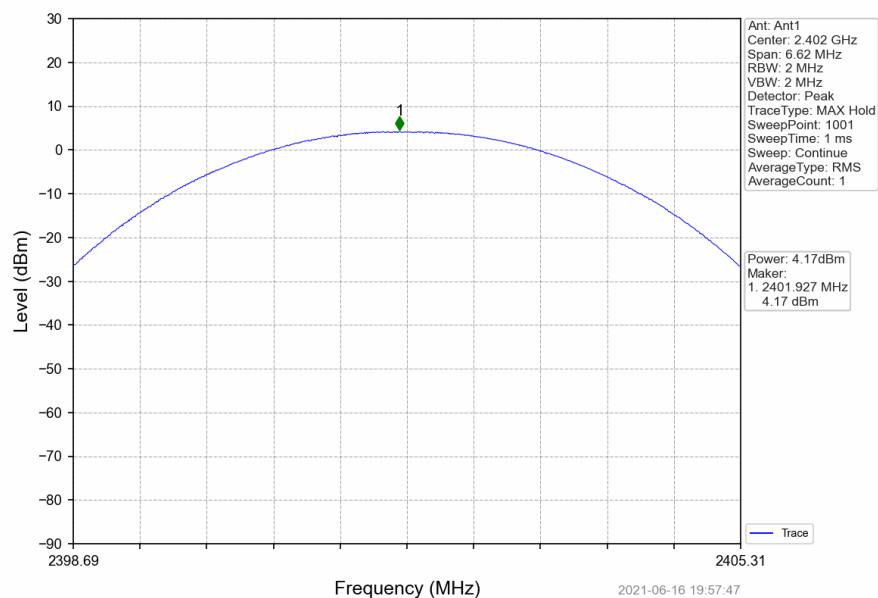
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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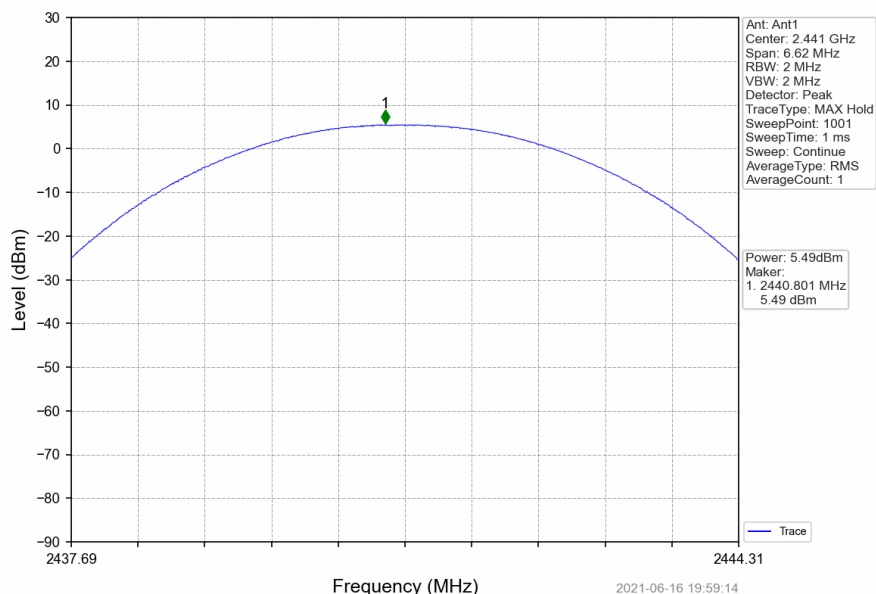
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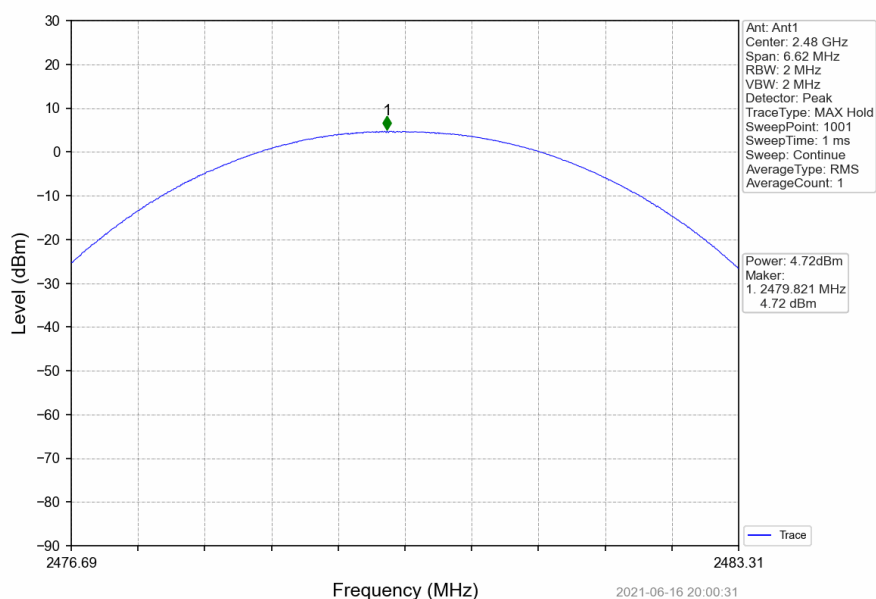
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Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



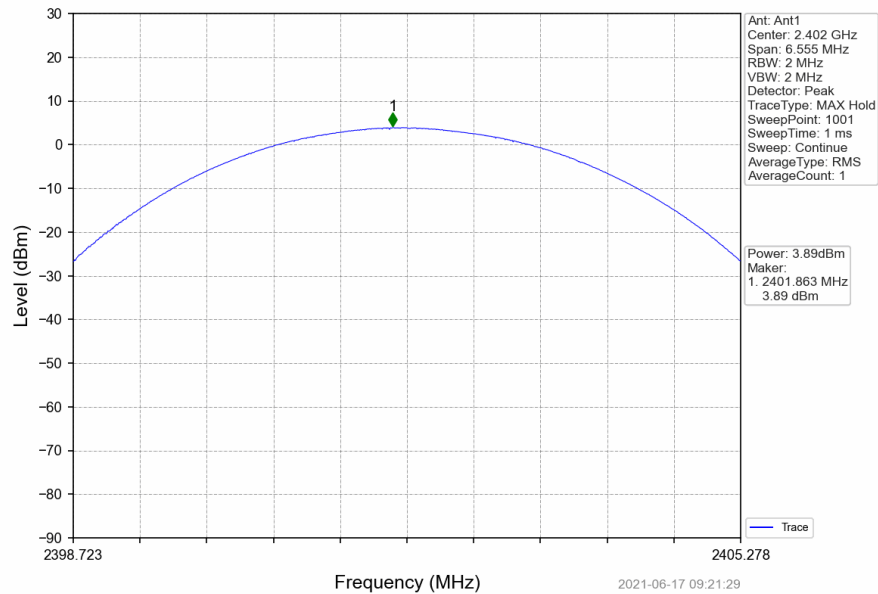
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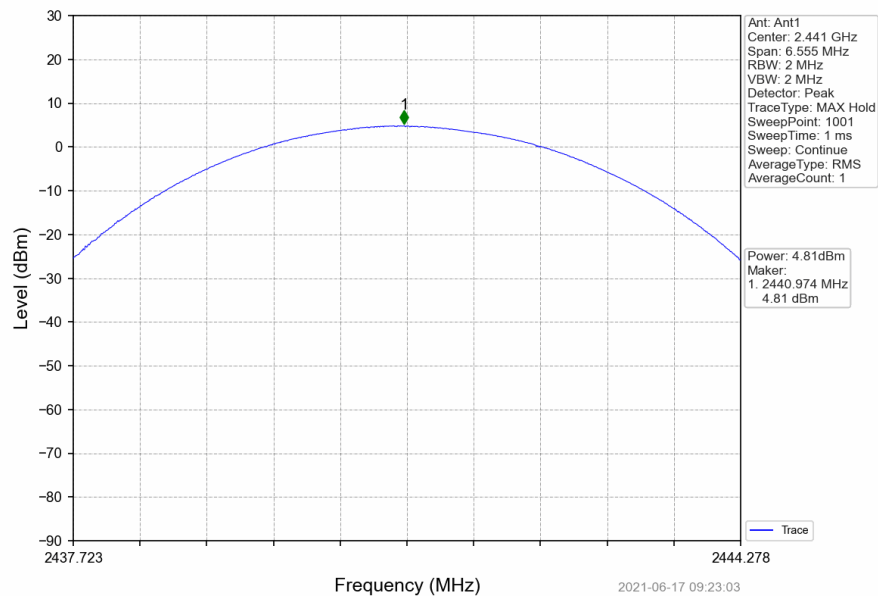
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



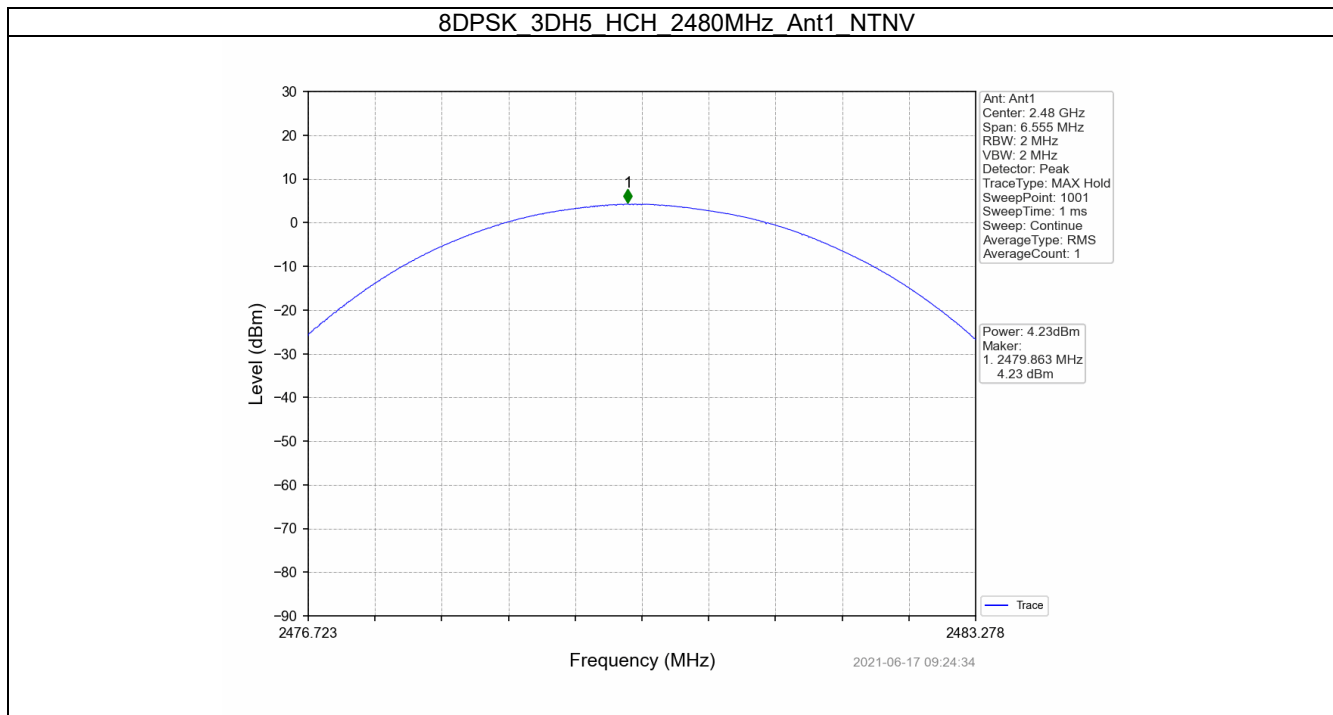
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### 3. Unwanted Emissions In Non-restricted Frequency Bands

#### 3.1 Ref

##### 3.1.1 Test Result

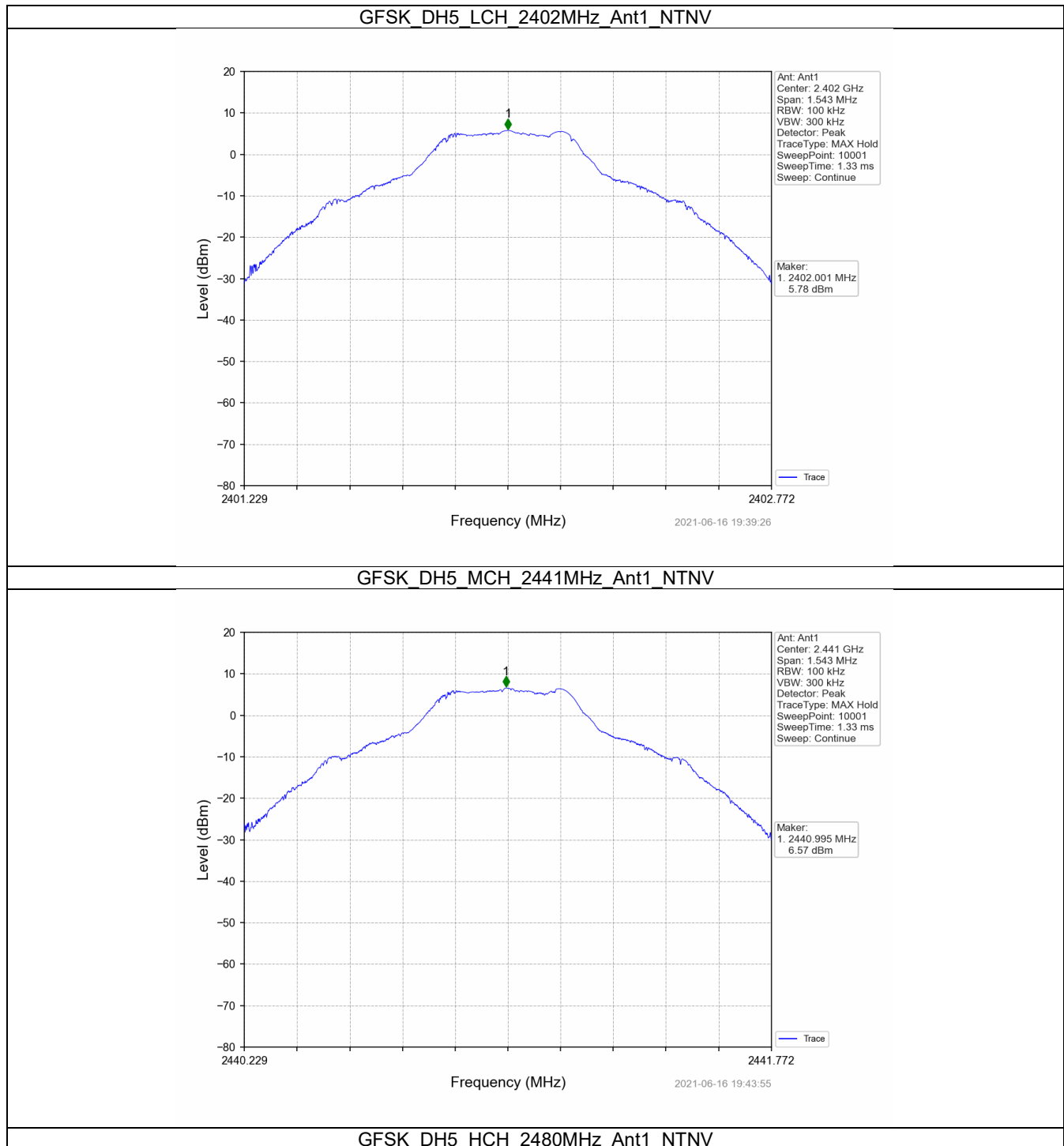
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	5.78	/	/
		2441	DH5	1	6.57	/	/
		2480	DH5	1	5.71	/	/
Pi/4DQPSK	SISO	2402	2DH5	1	1.51	/	/
		2441	2DH5	1	2.83	/	/
		2480	2DH5	1	2.22	/	/
8DPSK	SISO	2402	3DH5	1	0.81	/	/
		2441	3DH5	1	1.68	/	/
		2480	3DH5	1	1.23	/	/

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.

Note2: Only for Report Use



### 3.1.2 Test Graph



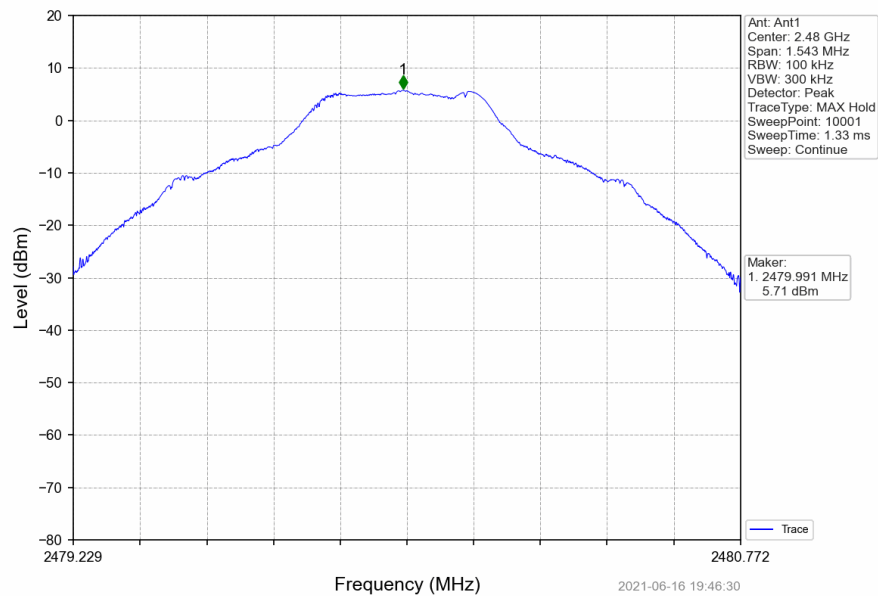
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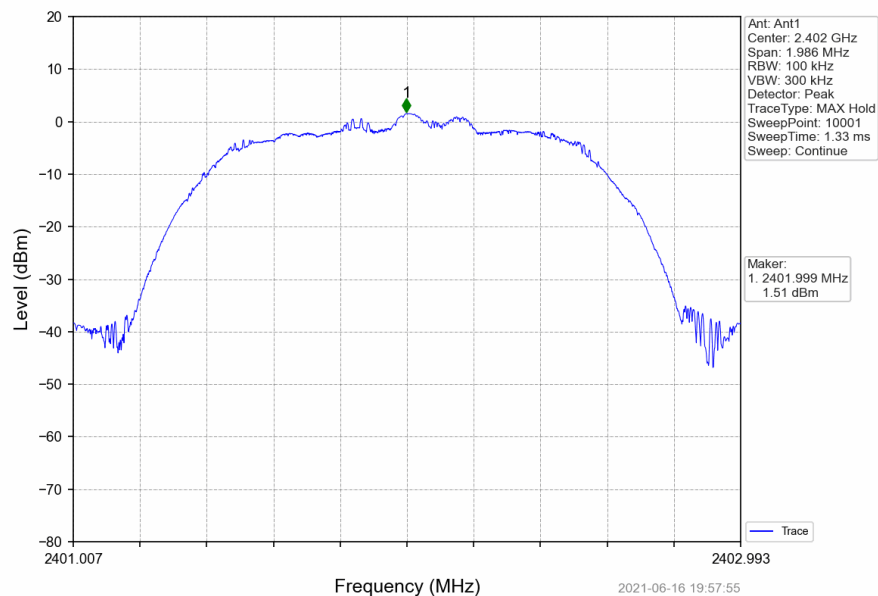
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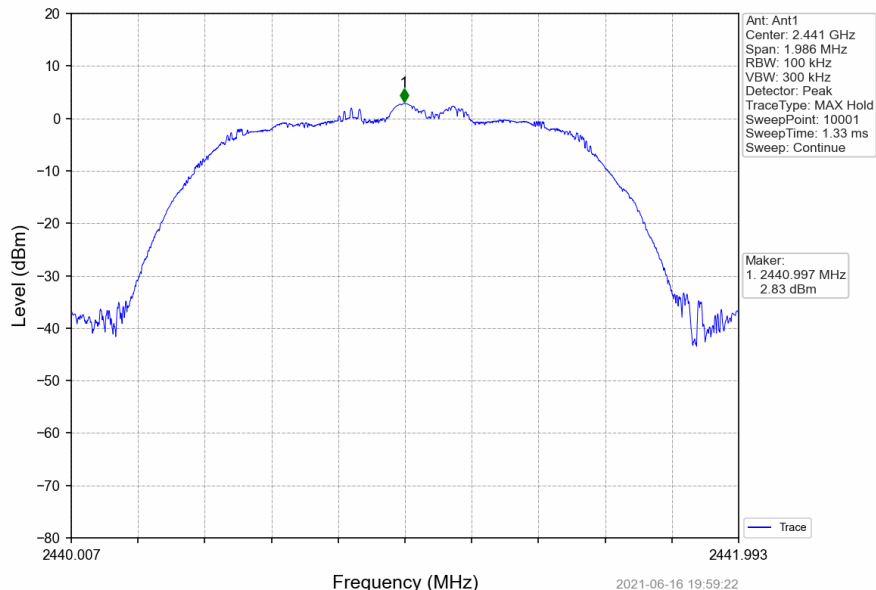
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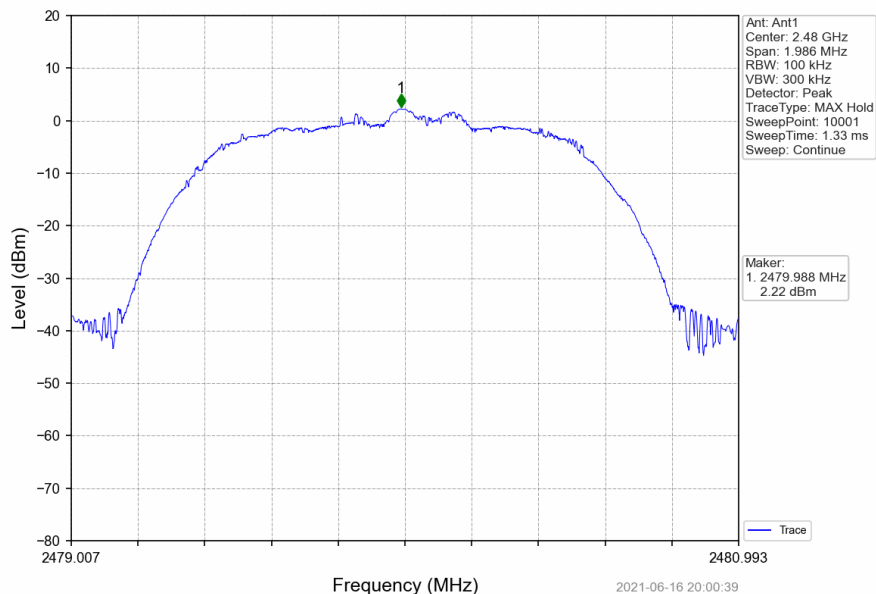
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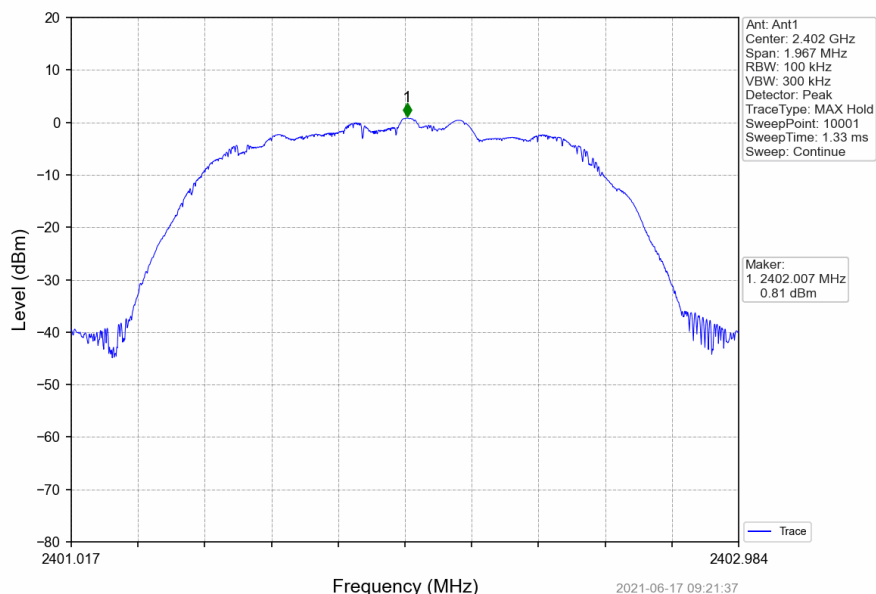
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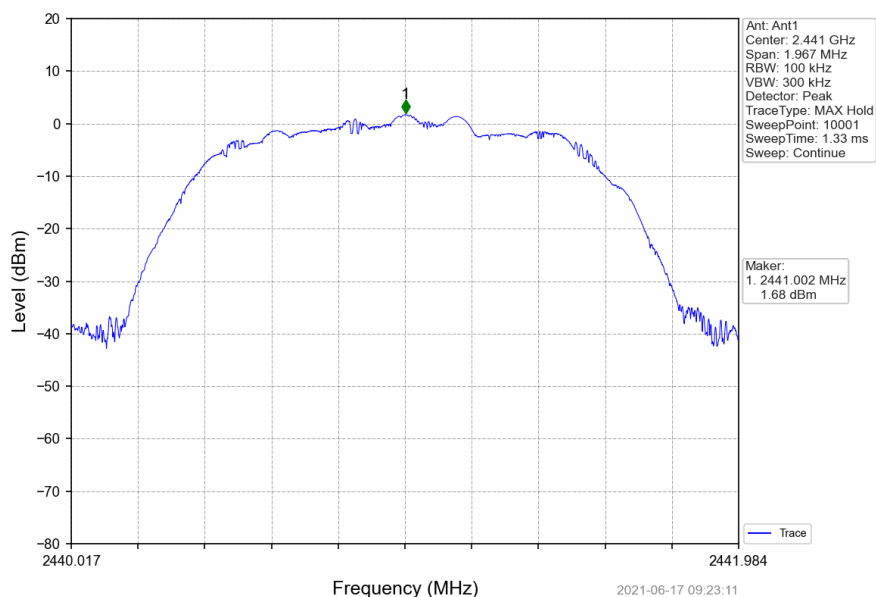
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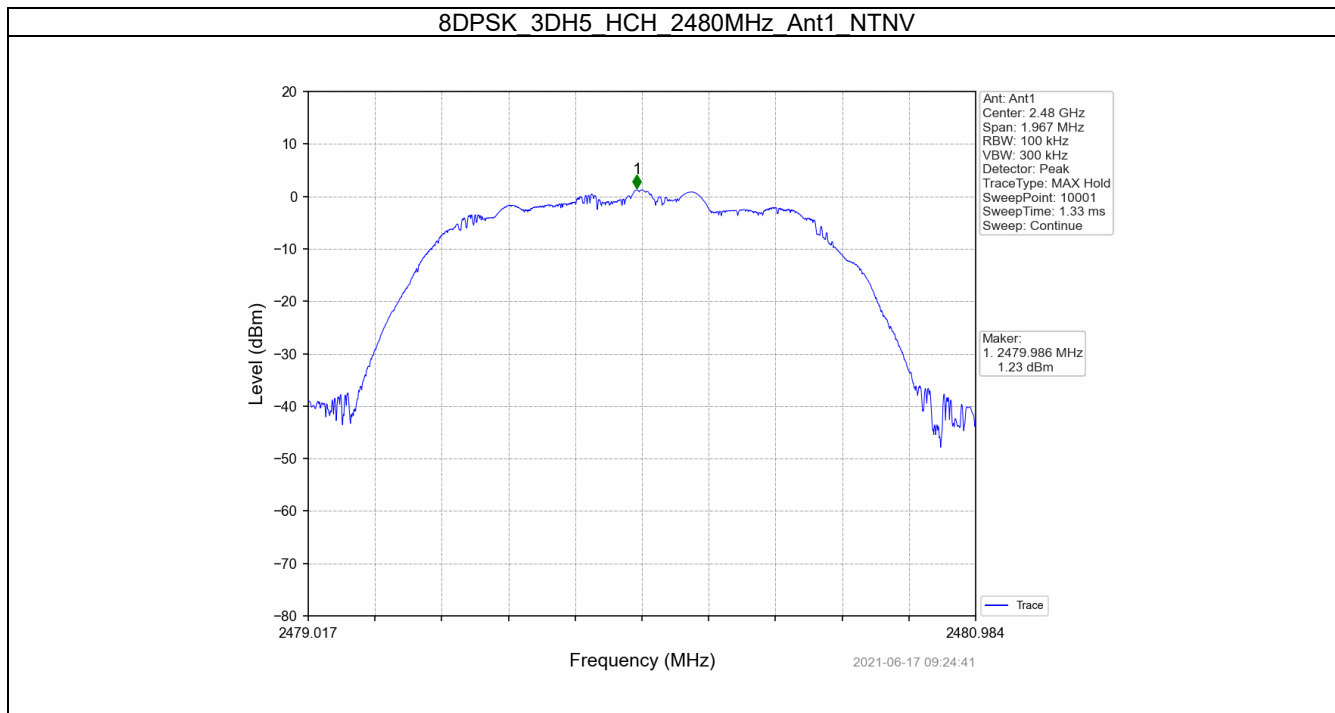
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## 3.2 CSE

### 3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
Pi/4DQPSK	SISO	2402	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
8DPSK	SISO	2402	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
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.							
Note2: Only for Report Use							



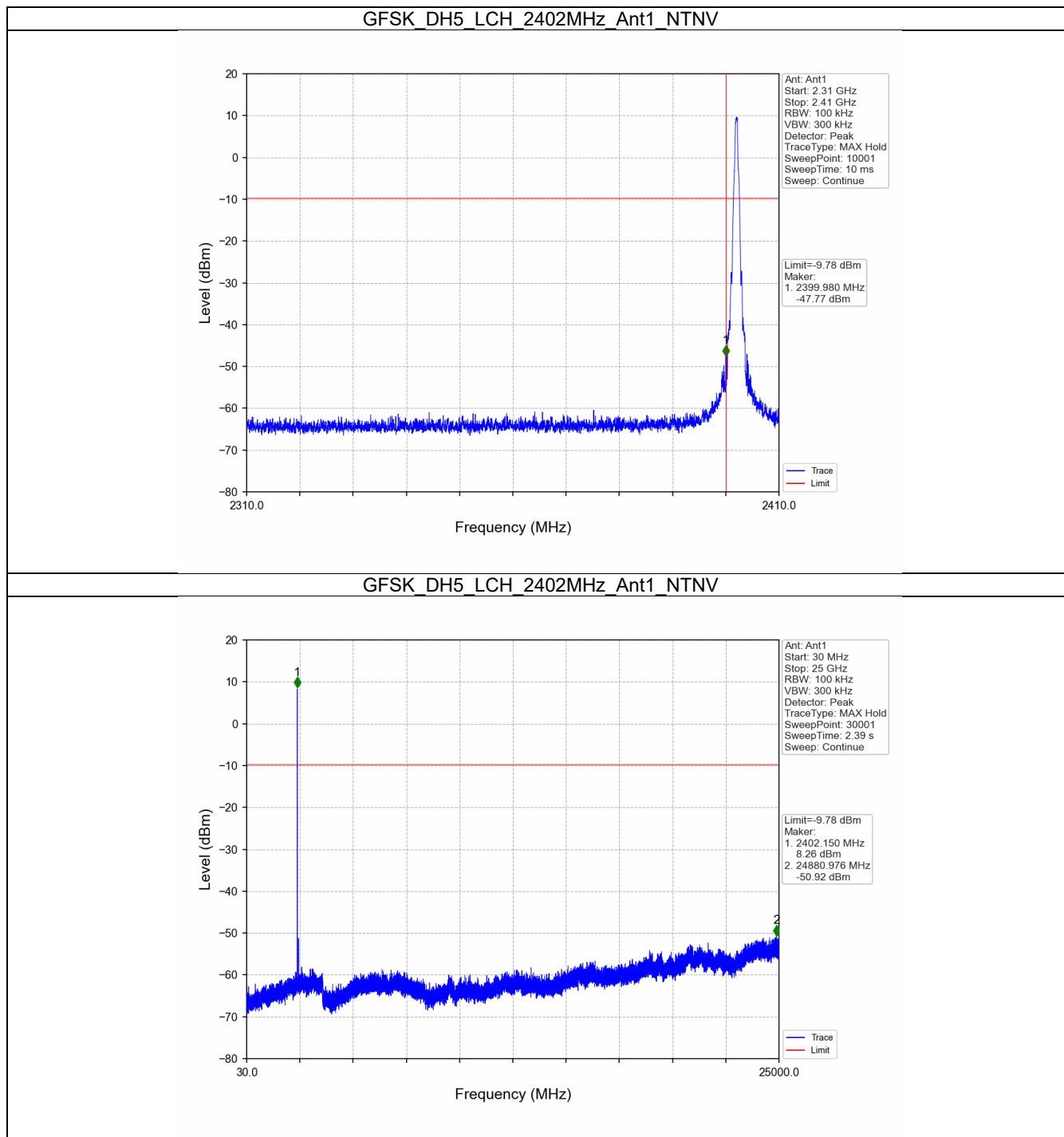
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### 3.2.2 Test Graph



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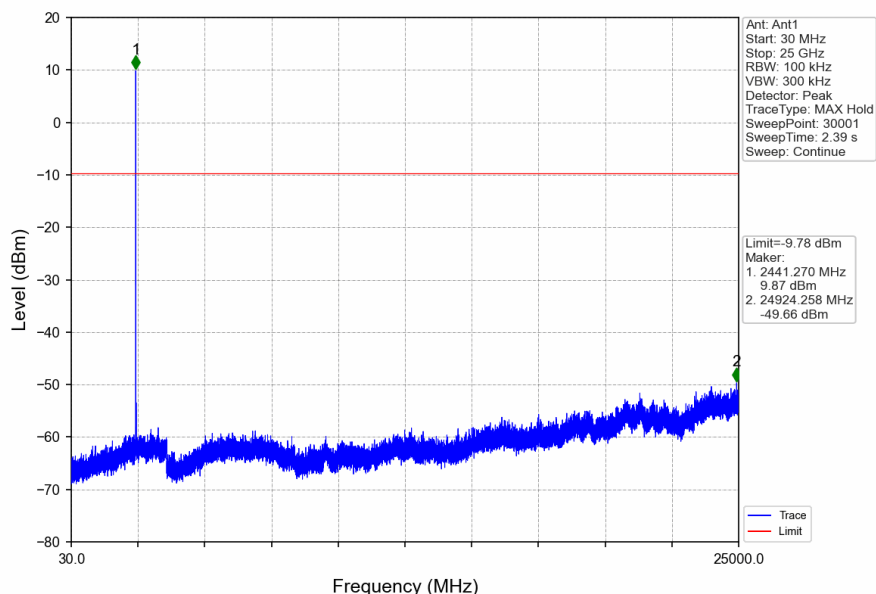
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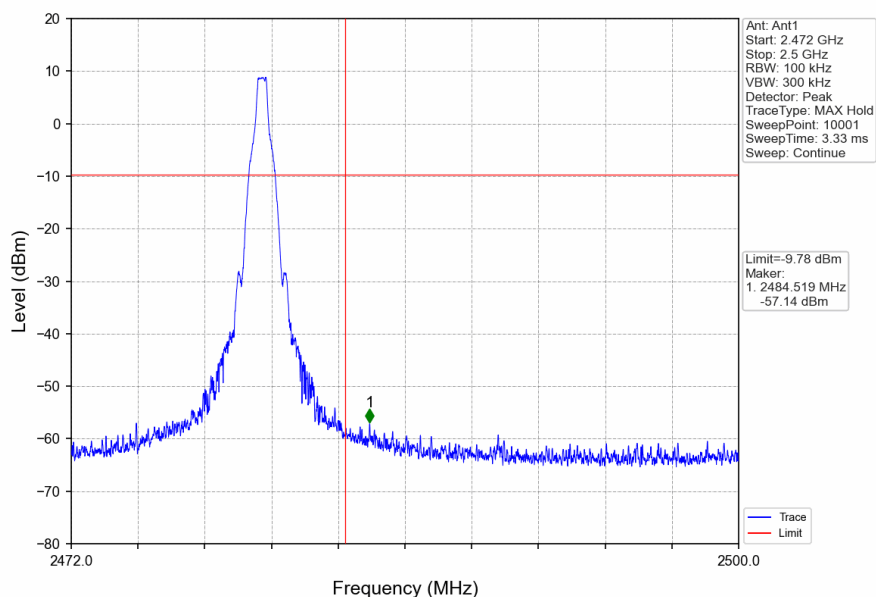
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GFSK DH5 MCH 2441MHz Ant1 NTN



GFSK DH5 HCH 2480MHz Ant1 NTN



GFSK DH5 HCH 2480MHz Ant1 NTN

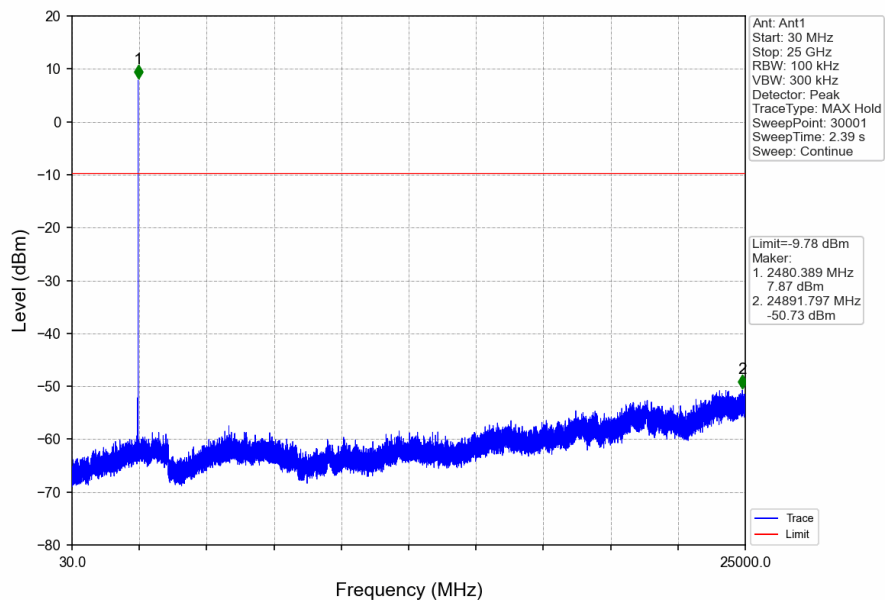


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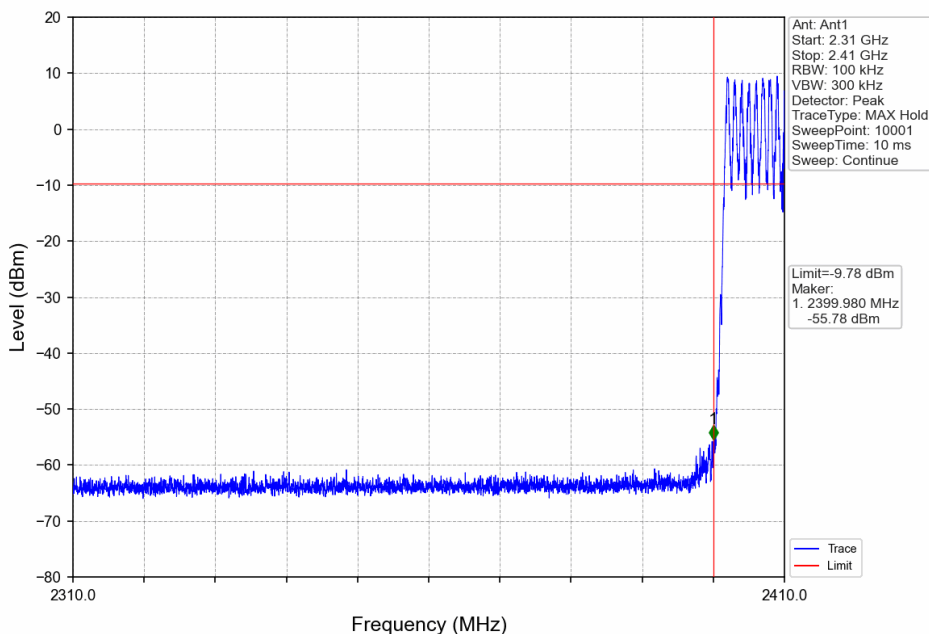
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GFSK\_DH5\_HOPP\_Ant1\_NTNV



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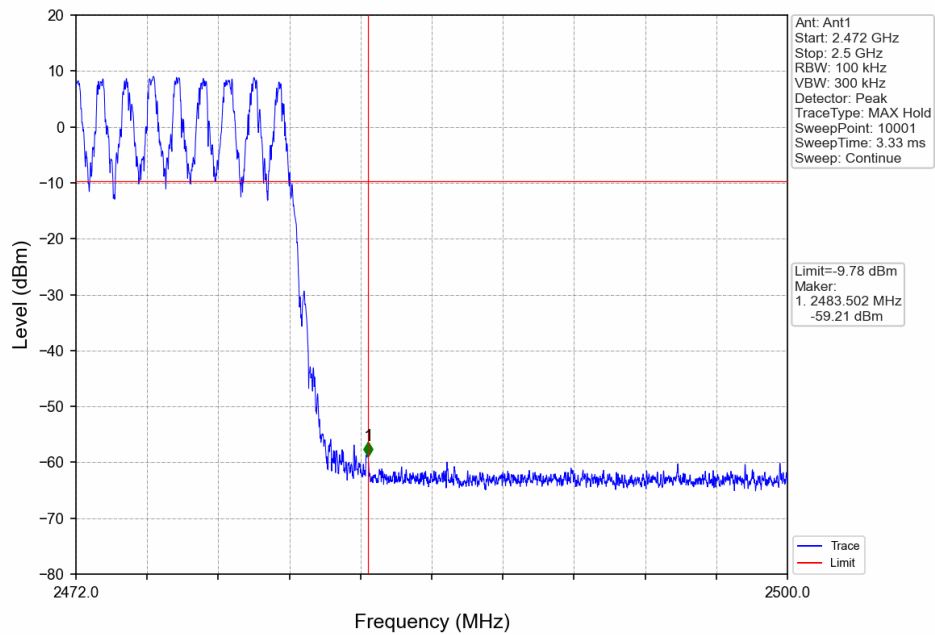
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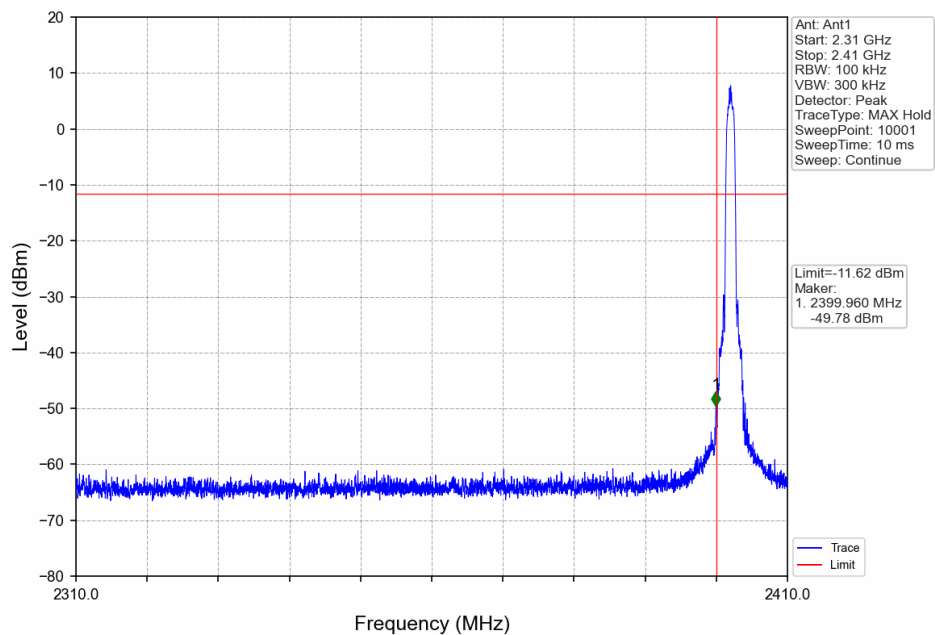
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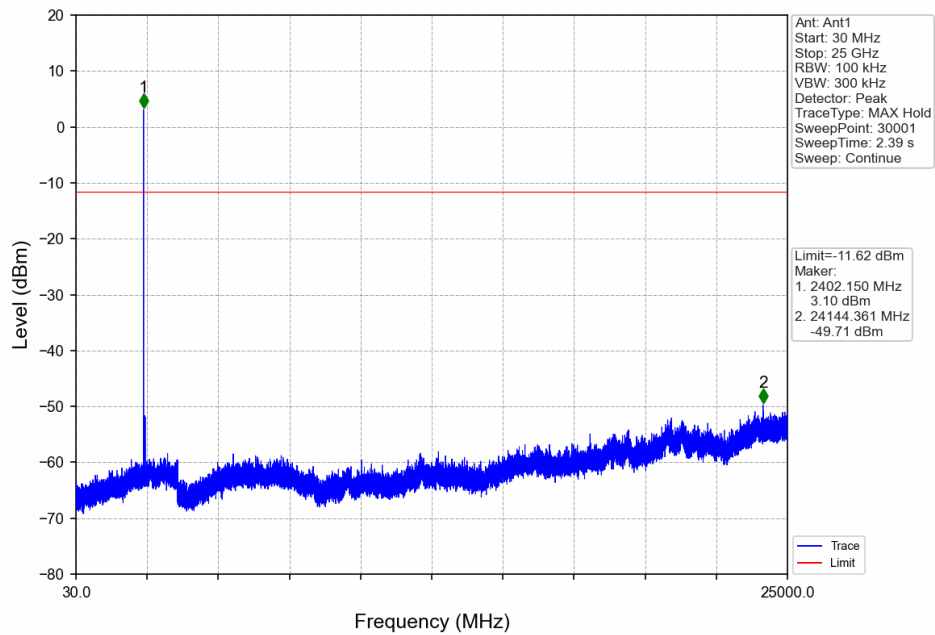
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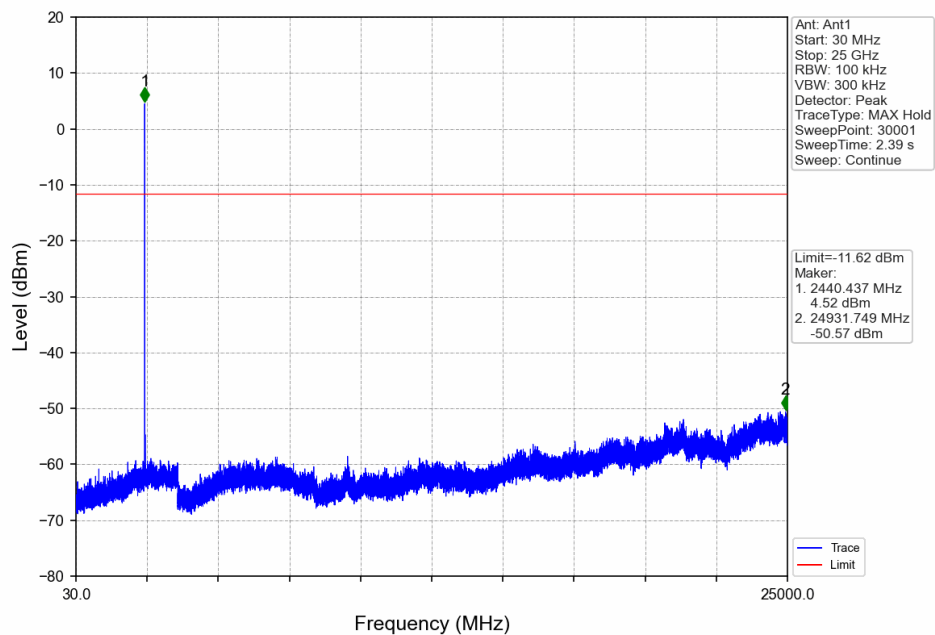
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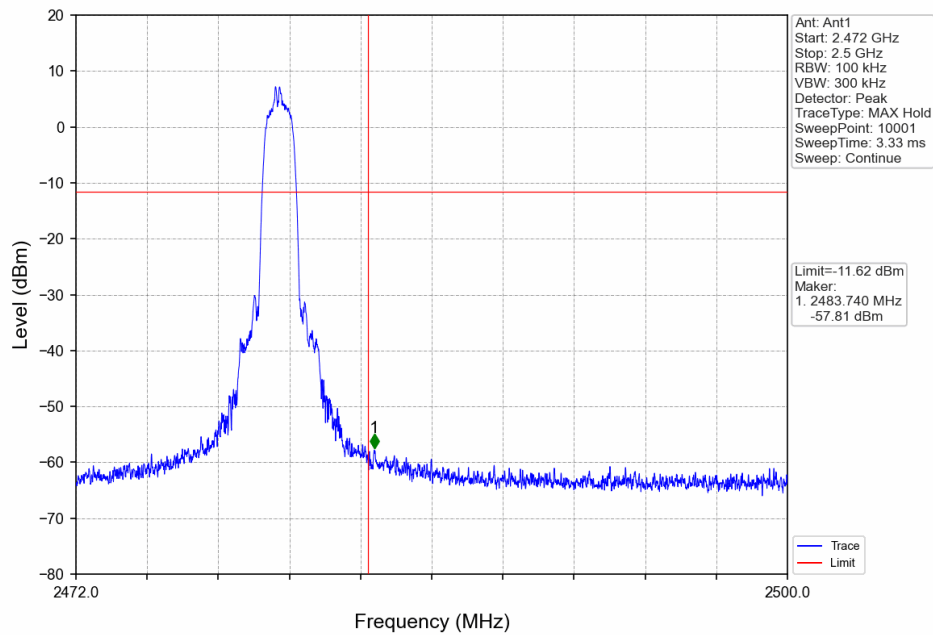
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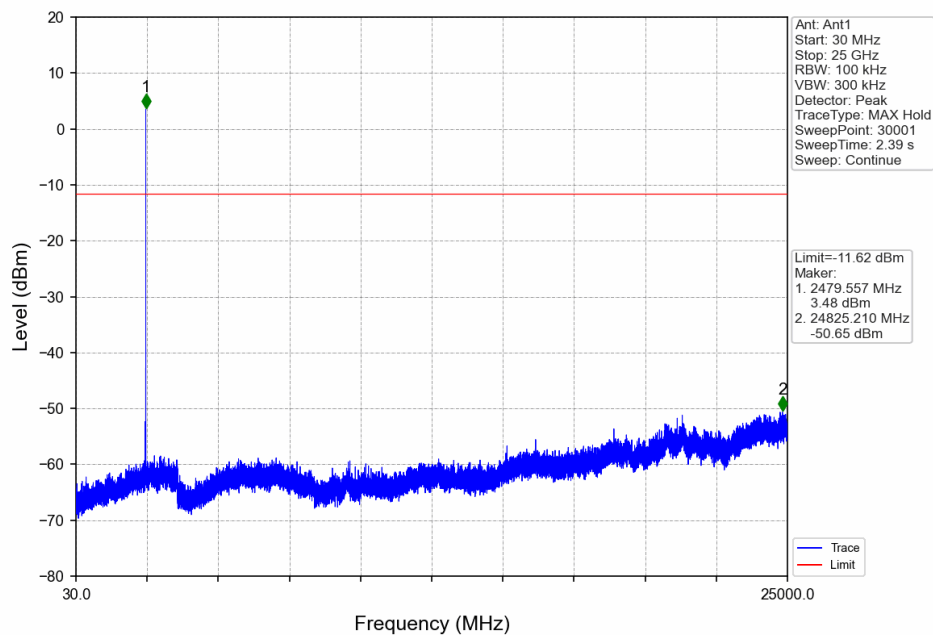
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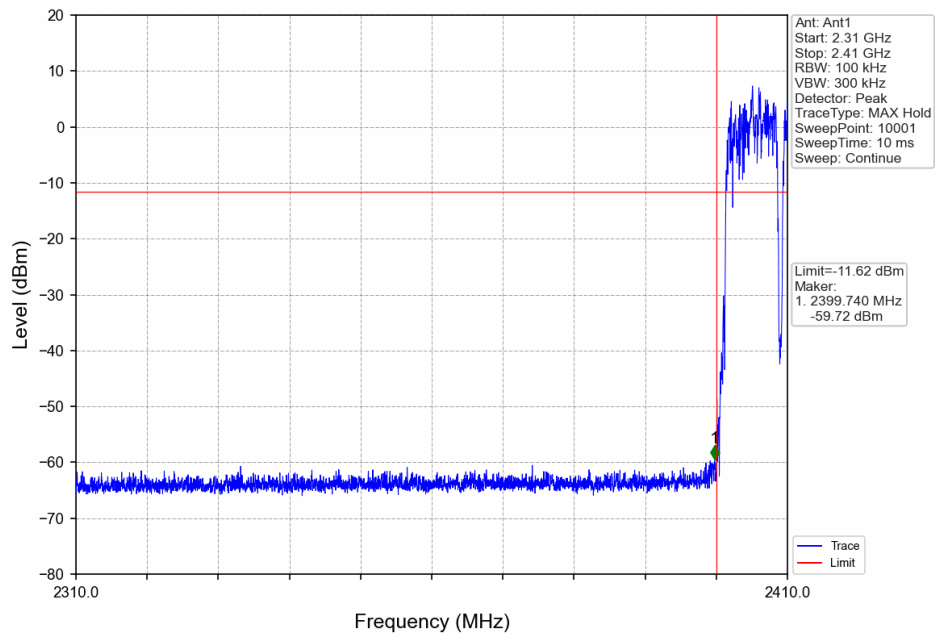
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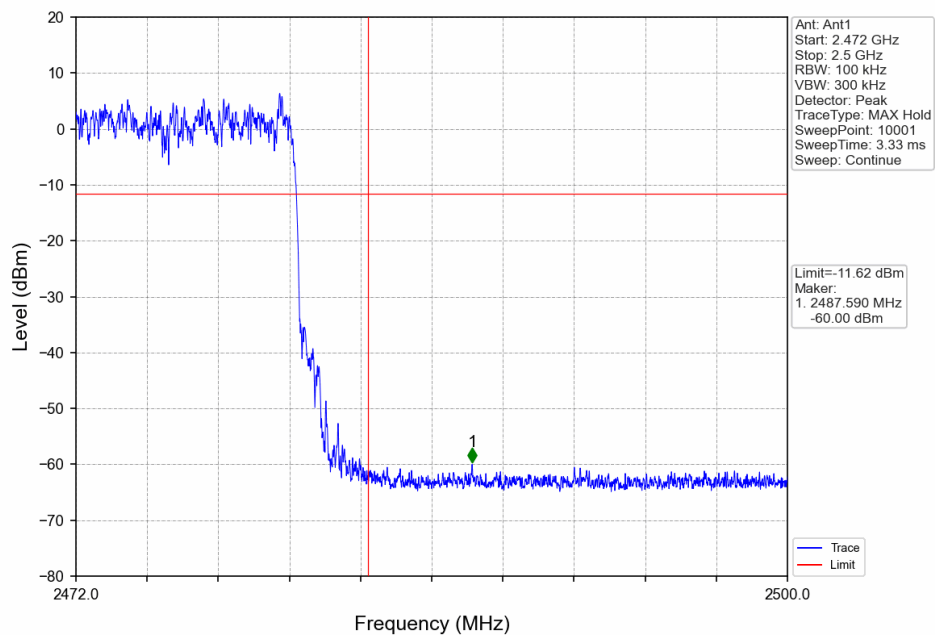
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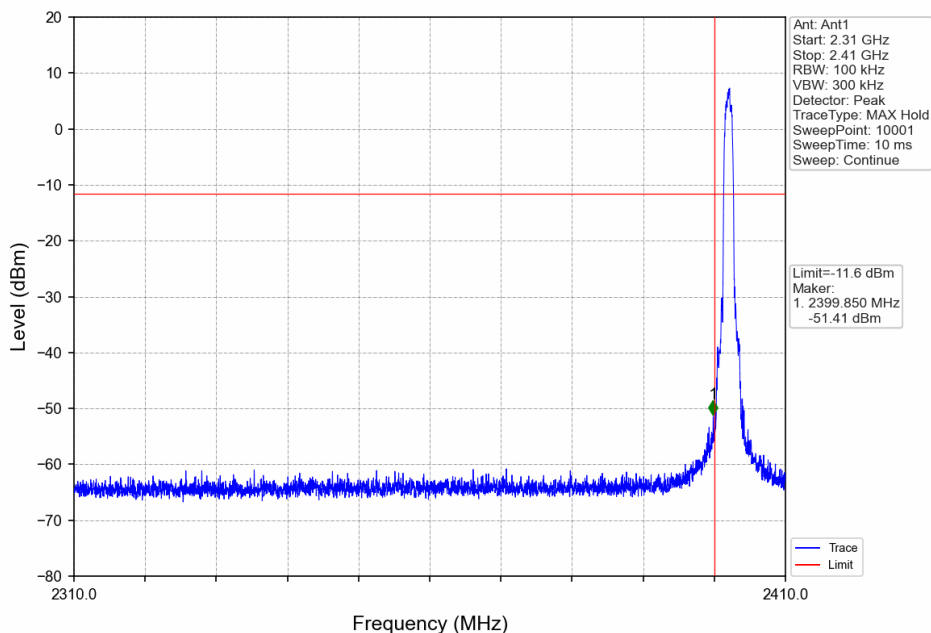
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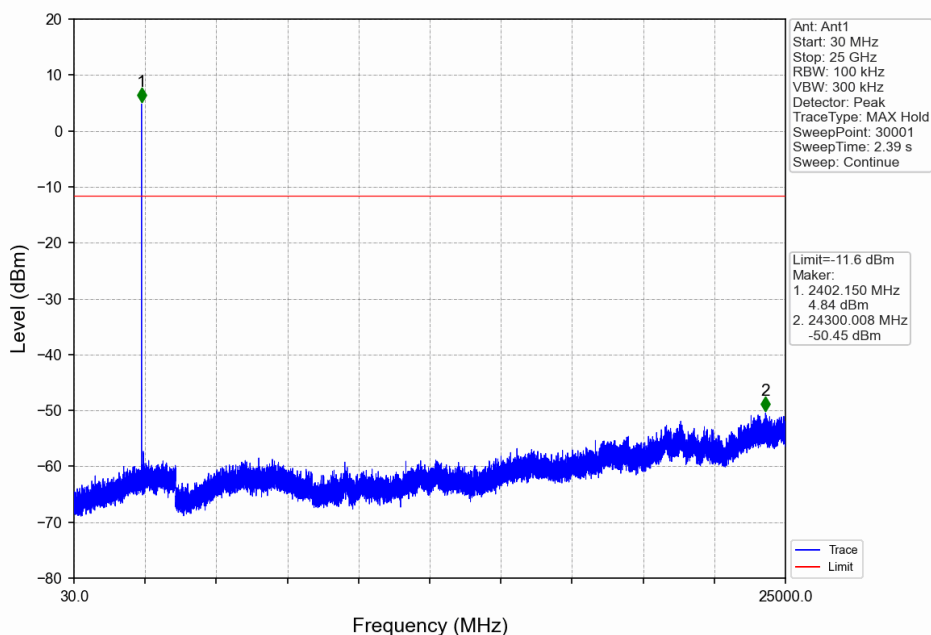
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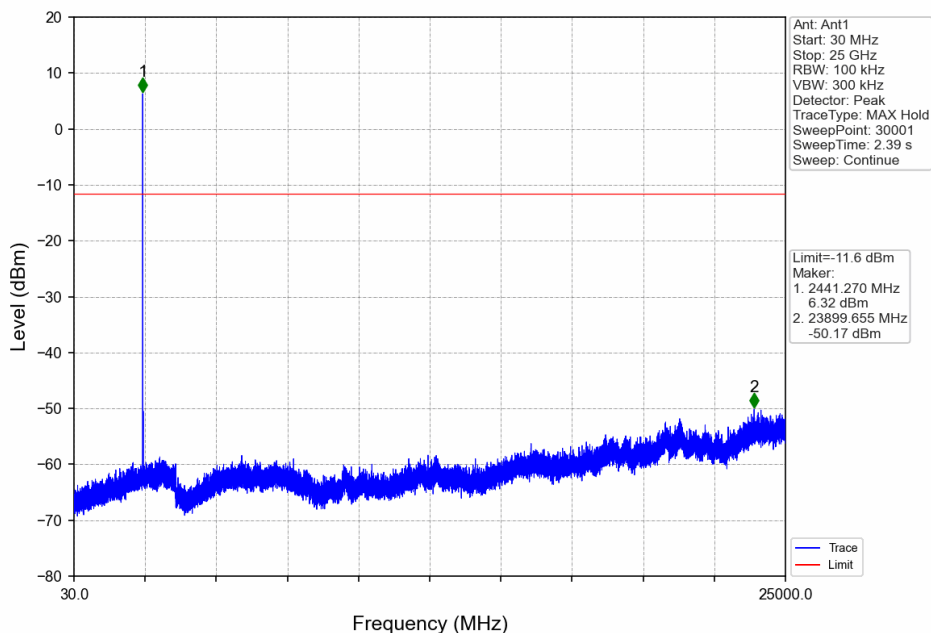
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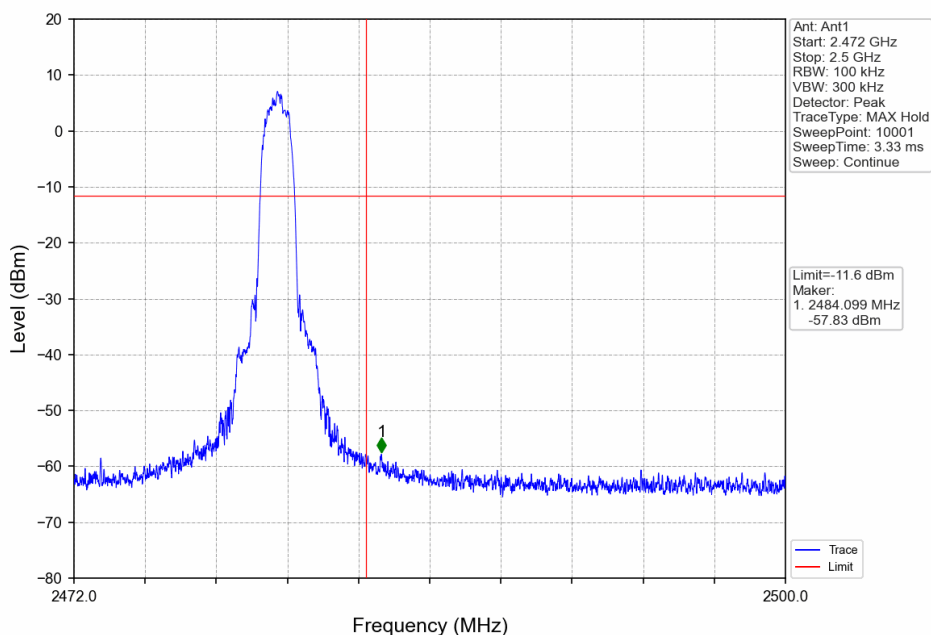
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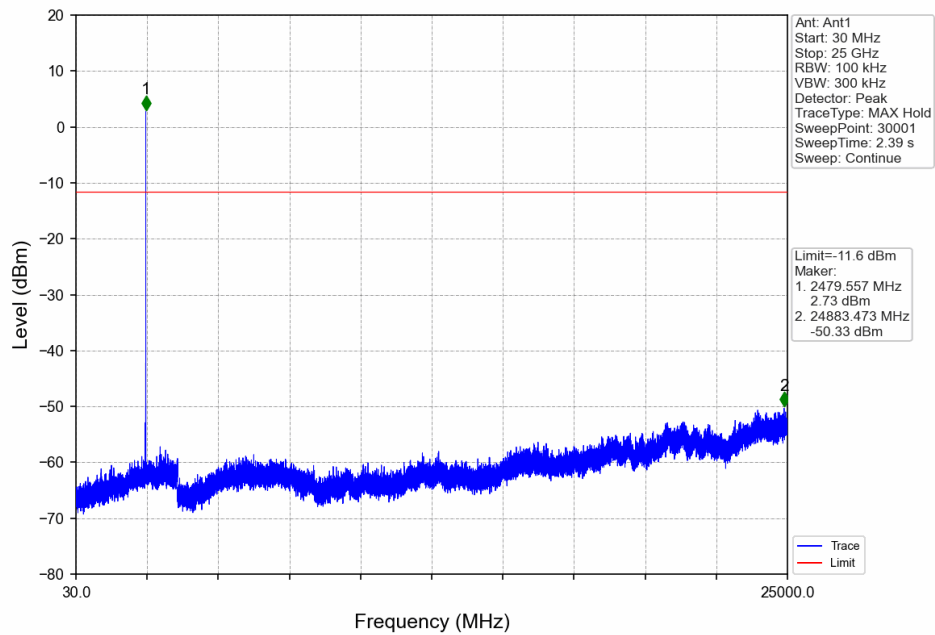
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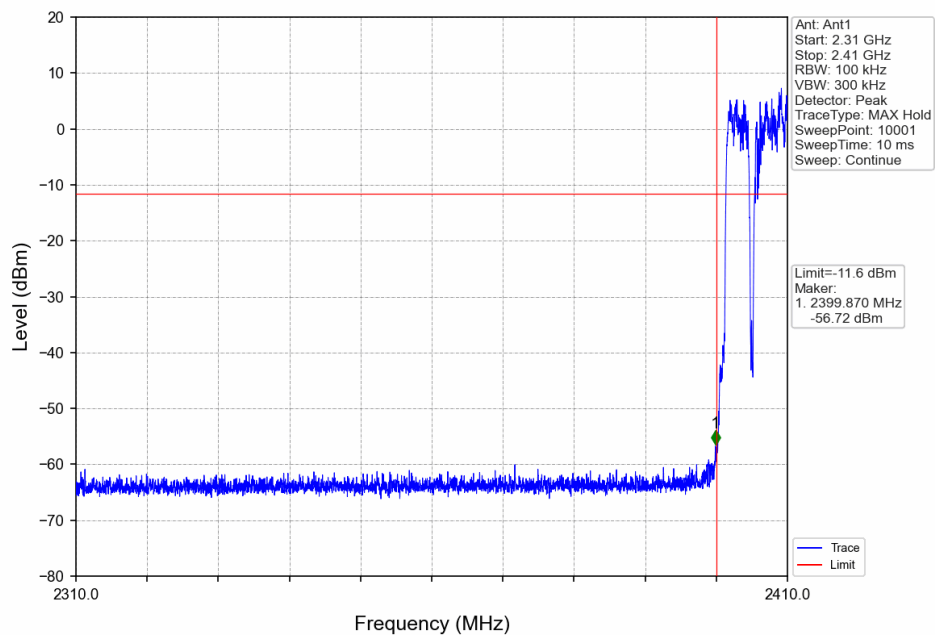
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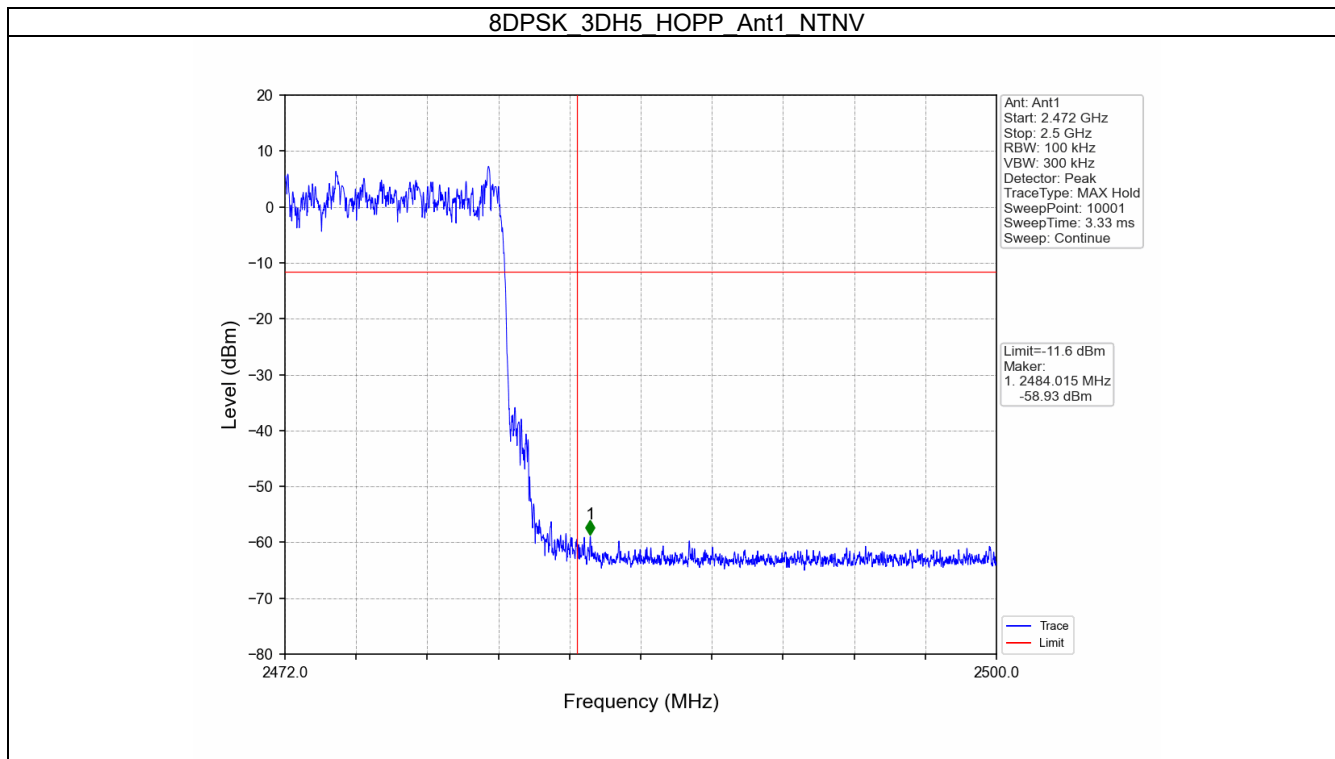
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## 4. Carrier Frequency Separation

### 4.1 Ant1

#### 4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.98	1.03	$\geq 0.686$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.00	1.32	$\geq 0.883$	Pass
8DPSK	SISO	HOPP	3DH5	1.02	1.31	$\geq 0.874$	Pass



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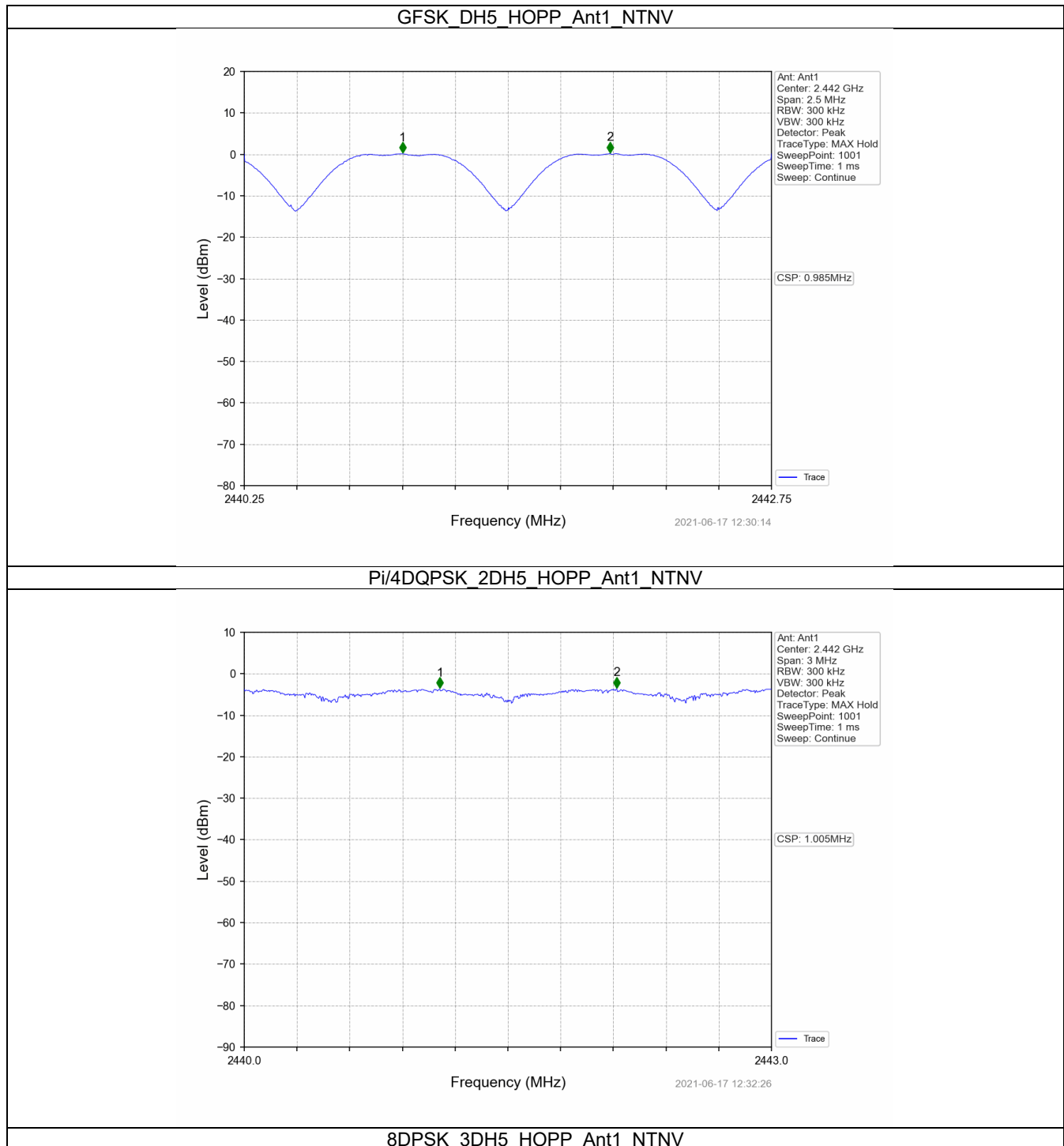
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## 4.1.2 Test Graph



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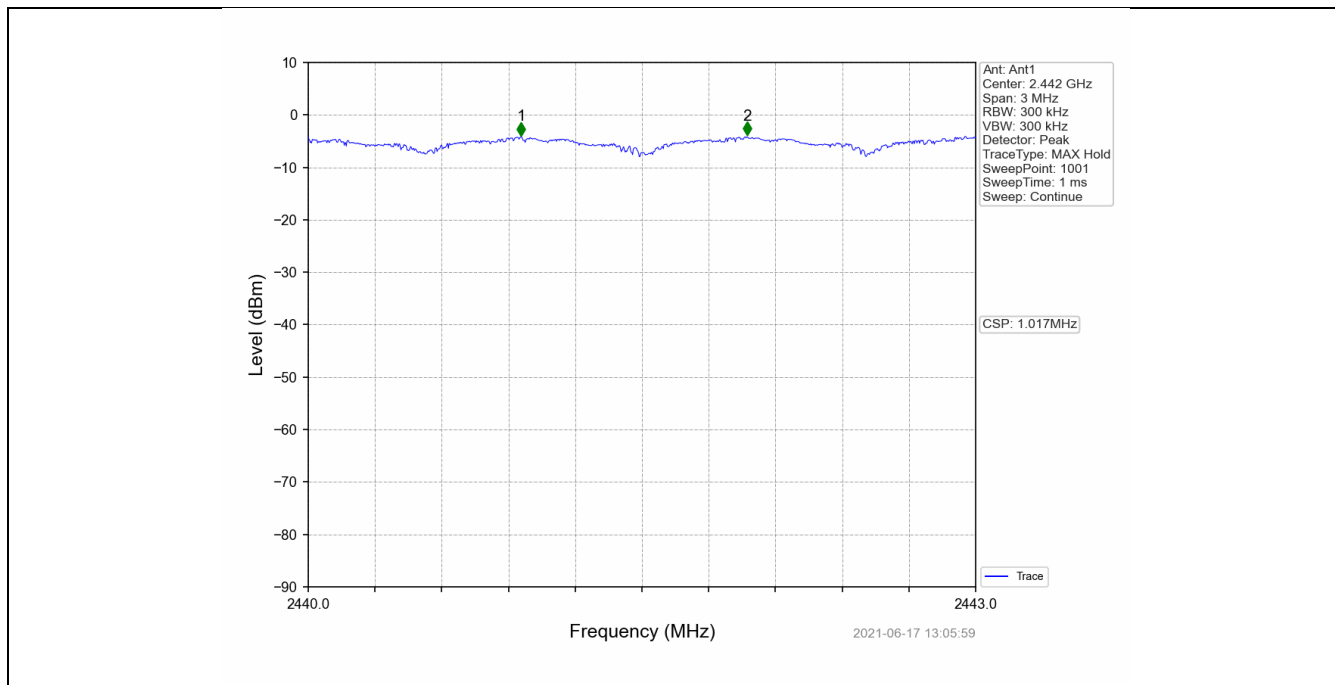
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## 5. Number of Hopping Frequencies

### 5.1 HoppNum

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies	Limit	Verdict
				Ant1		
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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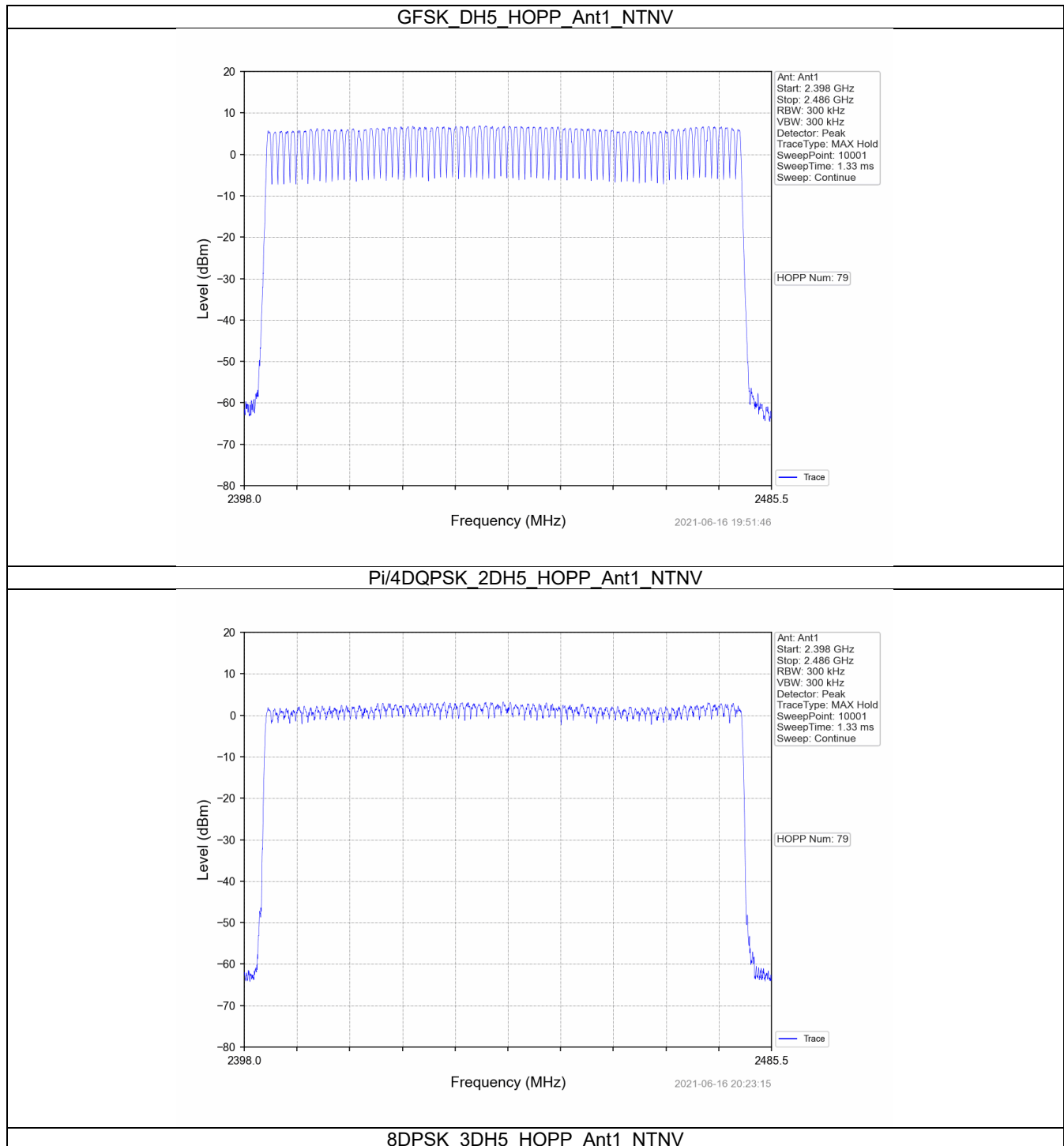
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## 7.1.2 Test Graph



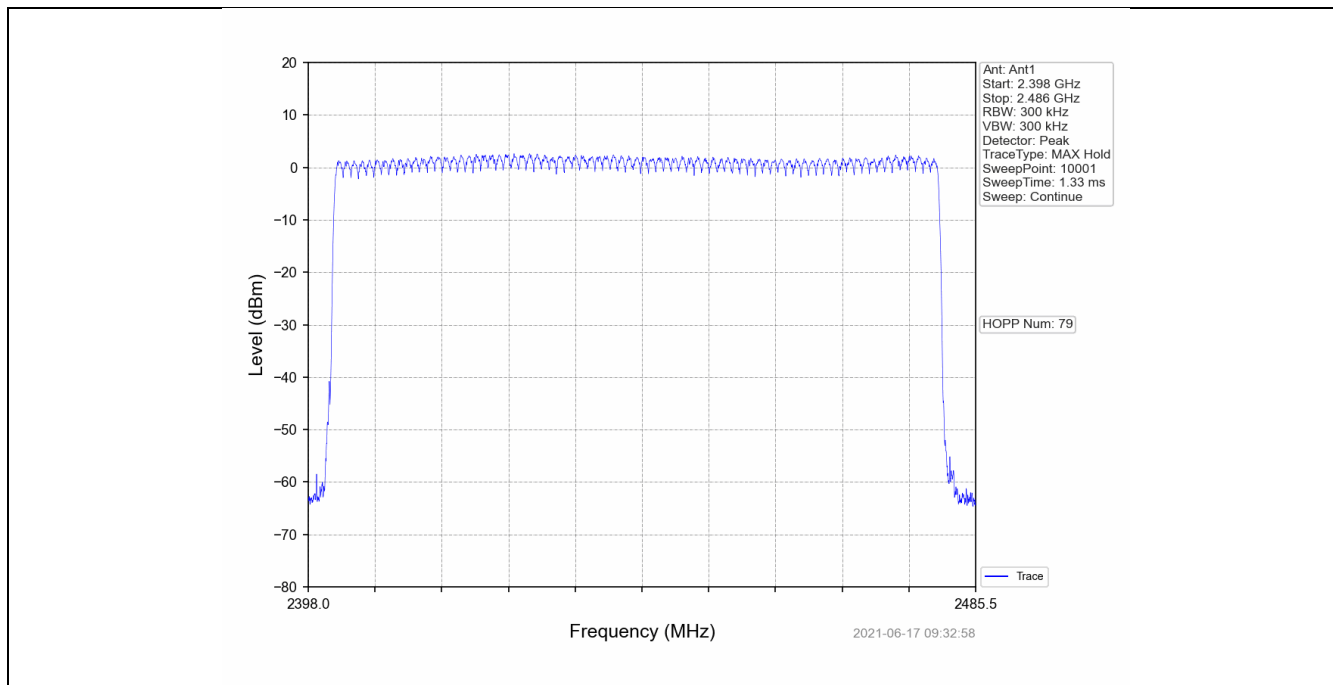
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## 6. Time of Occupancy (Dwell Time)

### 6.1 Ant1

#### 6.1.1 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	0.39	31.60	319	123.13	<=400	Pass
			DH3	1.64	31.60	165	270.60	<=400	Pass
			DH5	2.89	31.60	97	280.33	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.39	31.60	319	124.41	<=400	Pass
			2DH3	1.64	31.60	159	260.00	<=400	Pass
			2DH5	2.89	31.60	118	341.02	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.39	31.60	319	124.41	<=400	Pass
			3DH3	1.64	31.60	165	270.93	<=400	Pass
			3DH5	2.89	31.60	107	309.44	<=400	Pass



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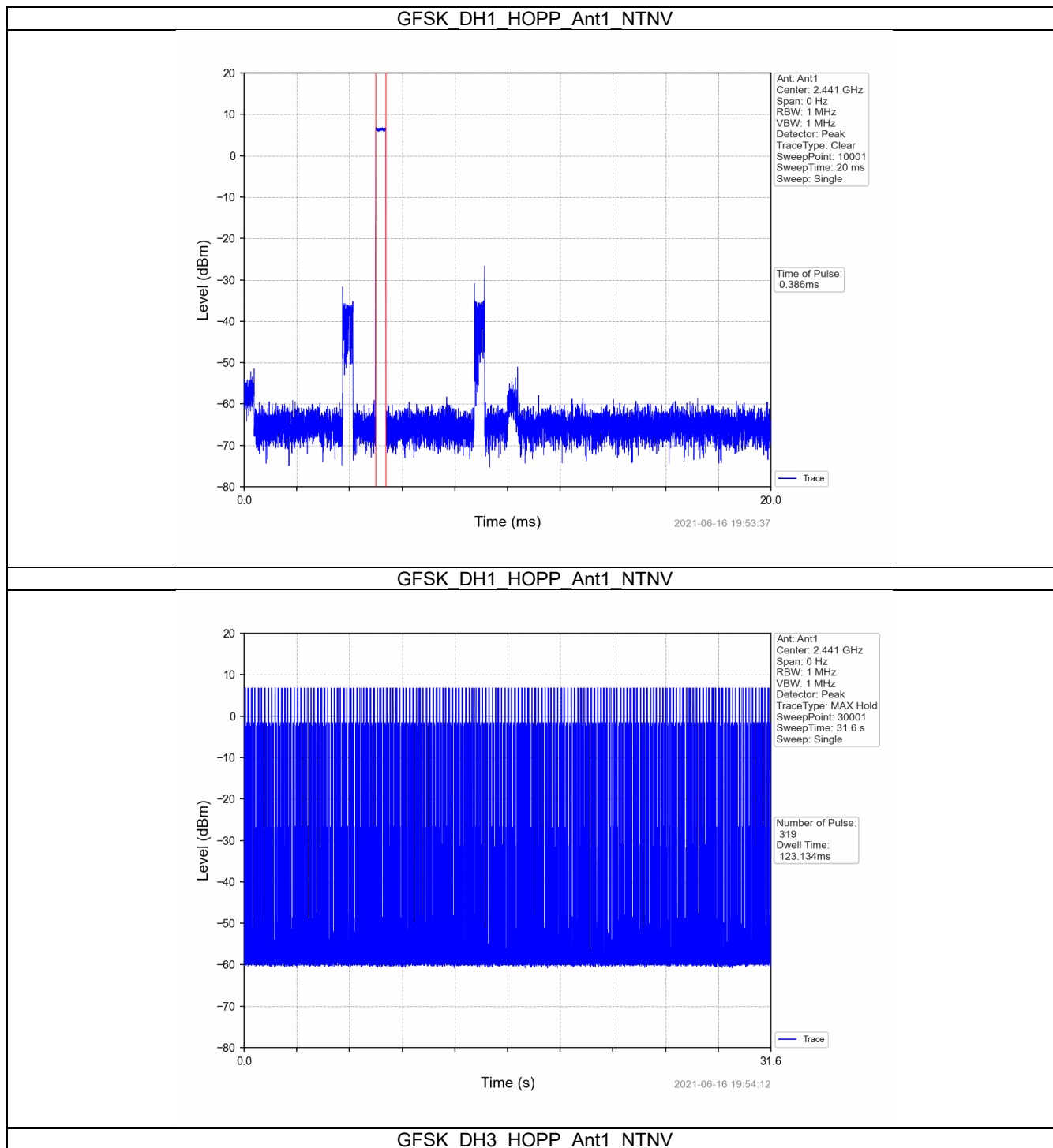
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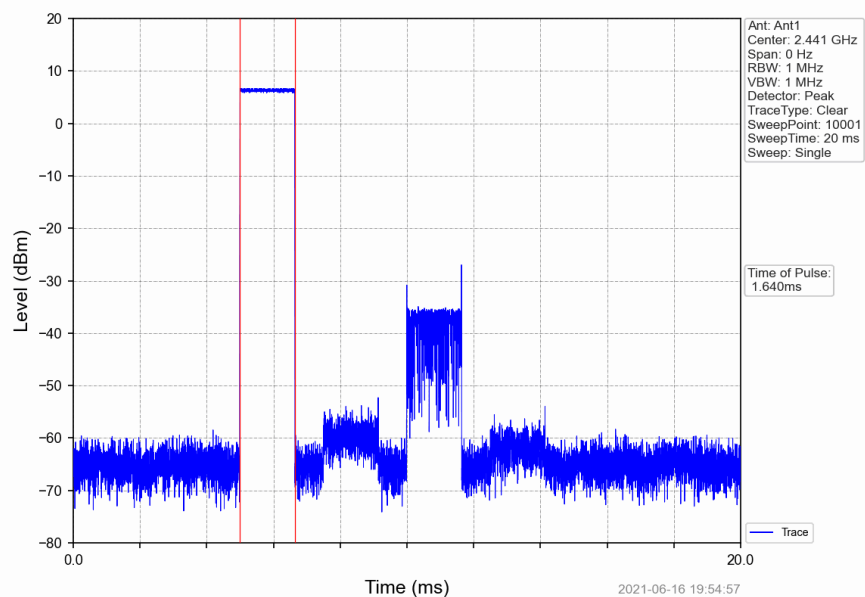


## 6.1.2 Test Graph

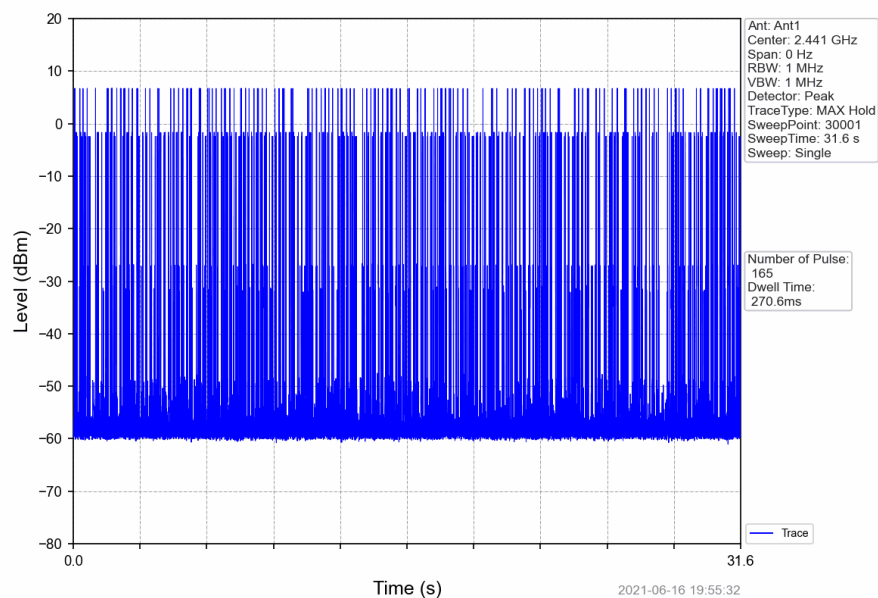


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GFSK DH3 HOPP Ant1 NTN



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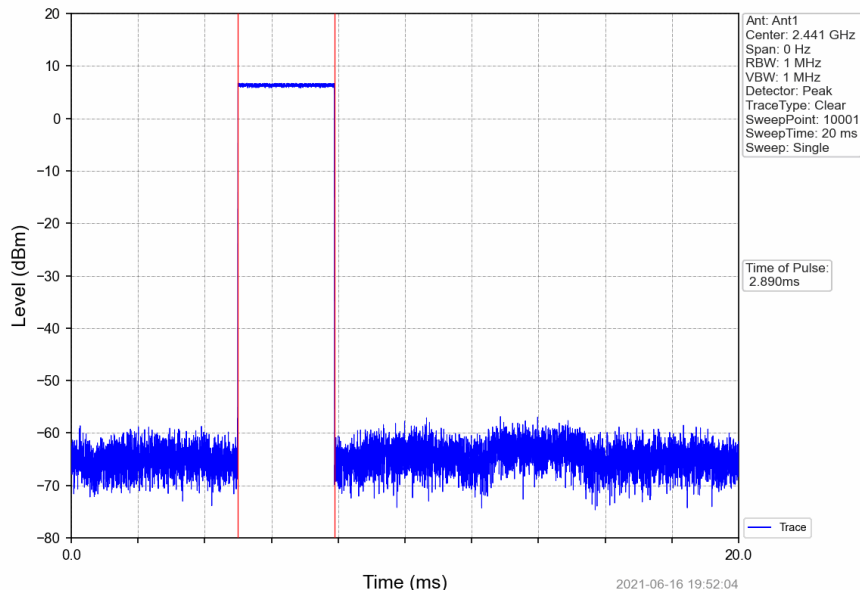
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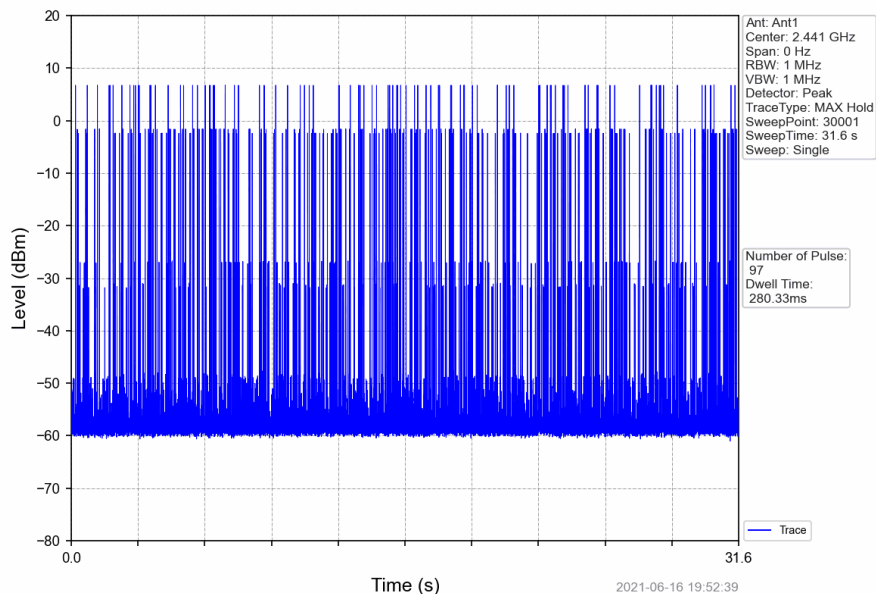
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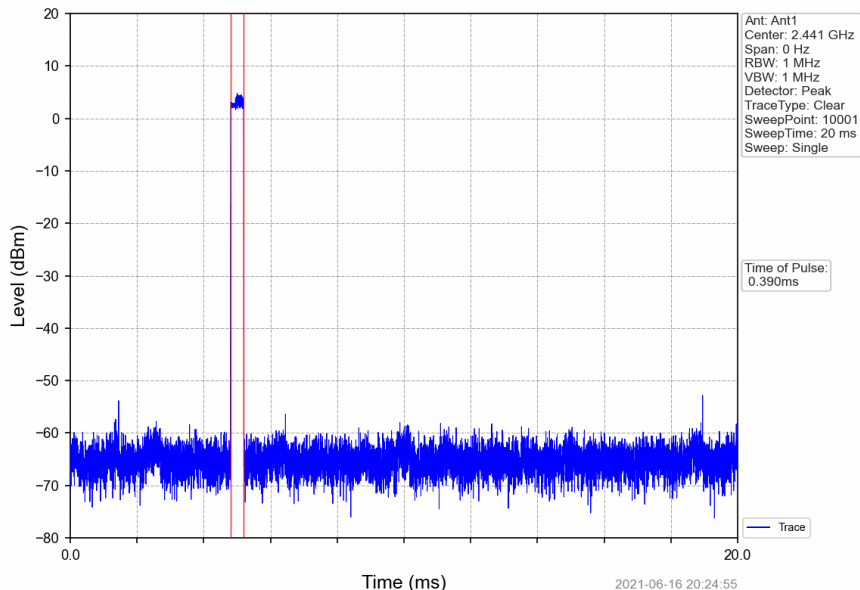
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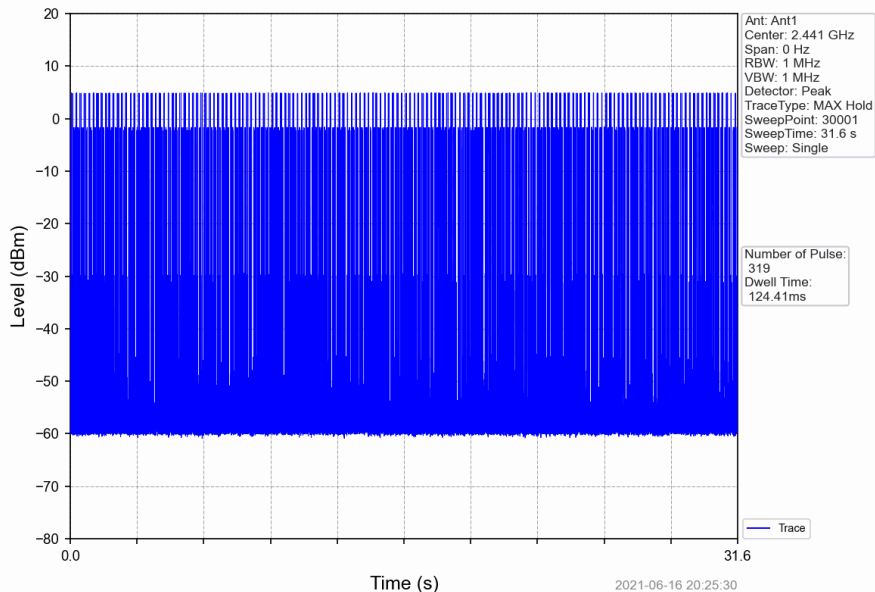
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Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



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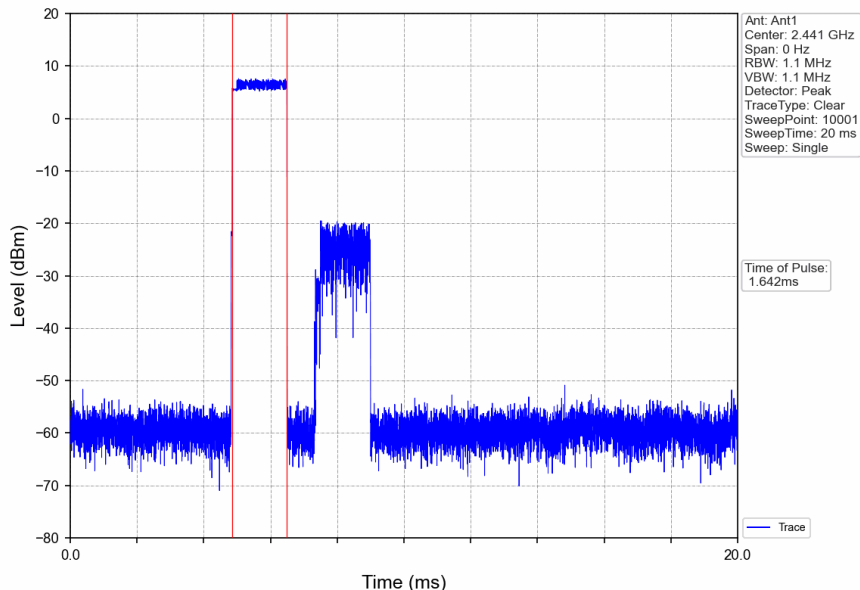
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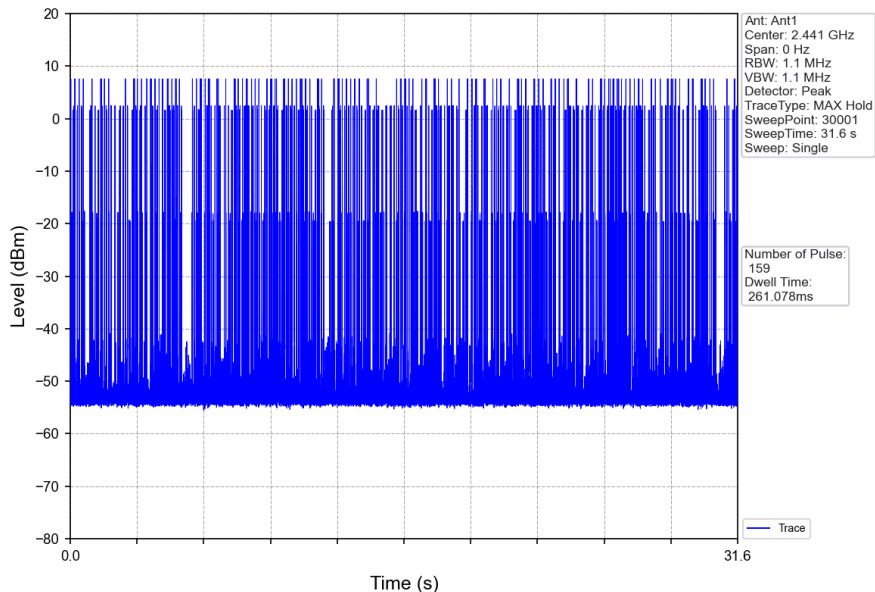
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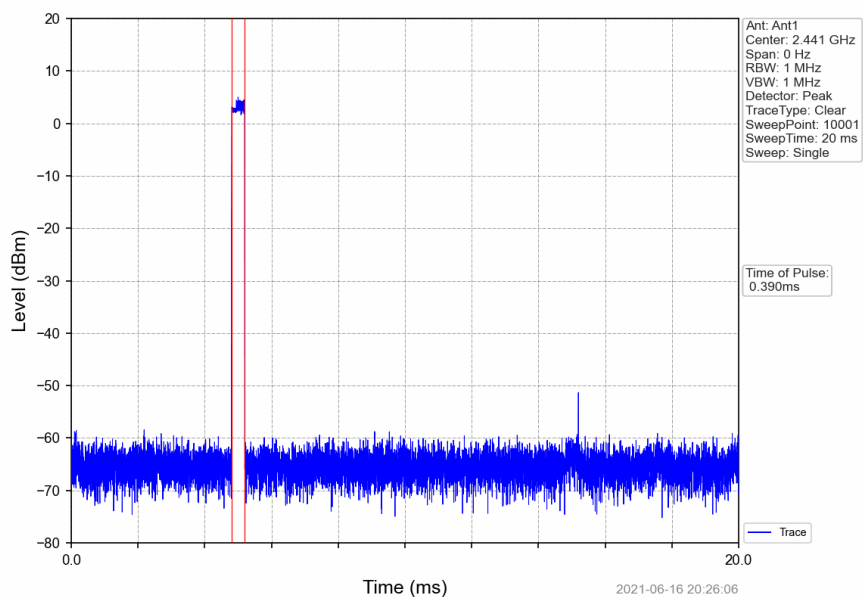
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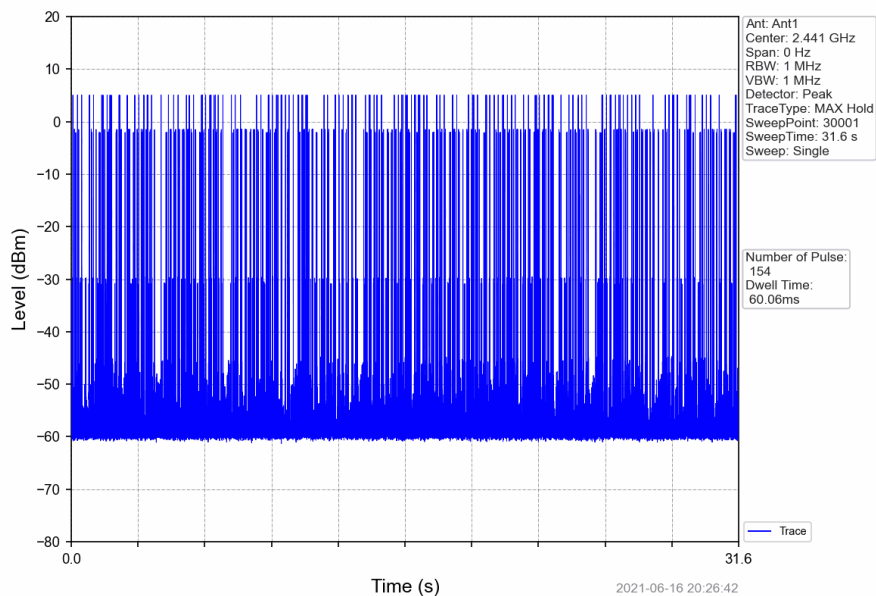
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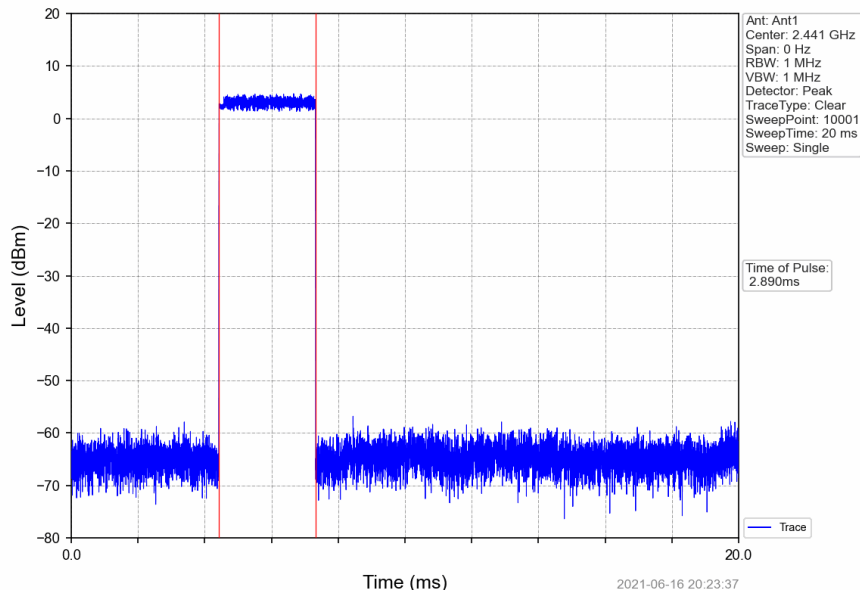
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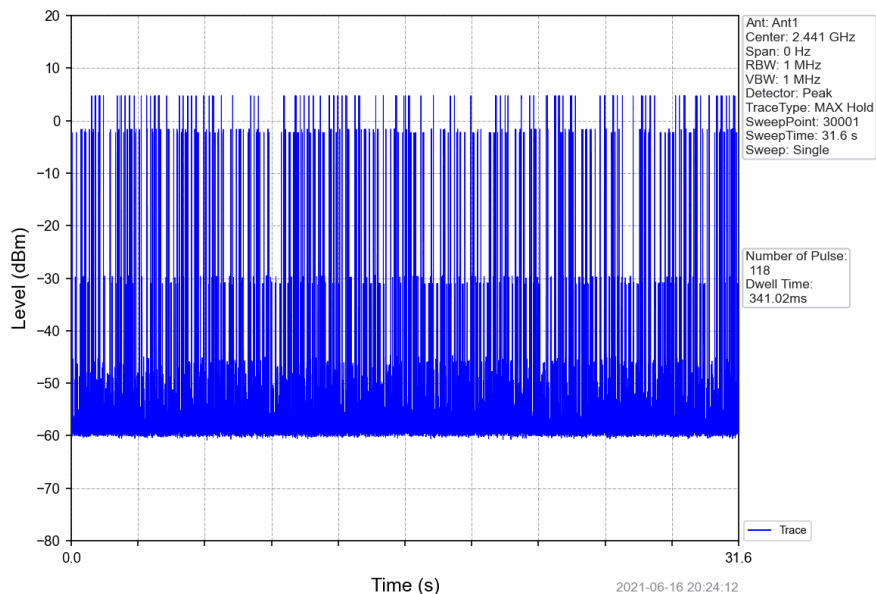
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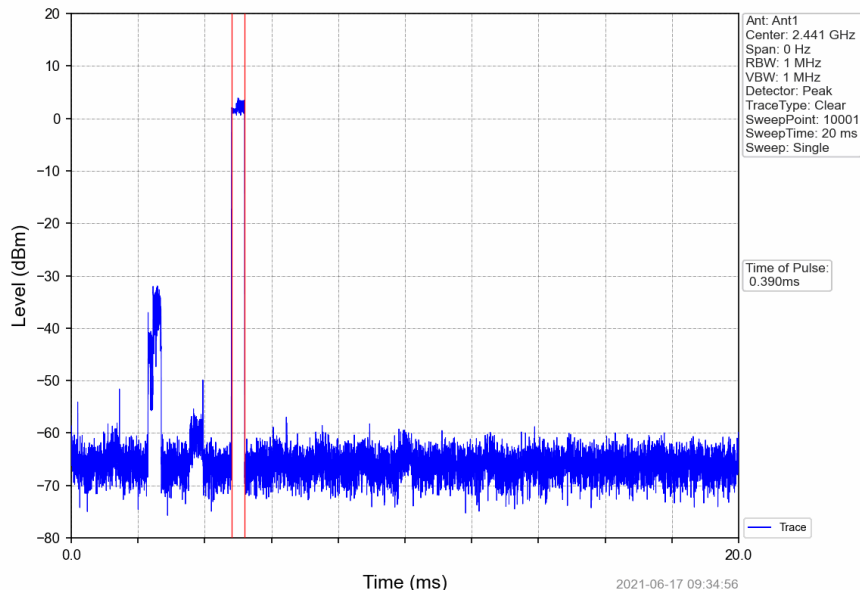
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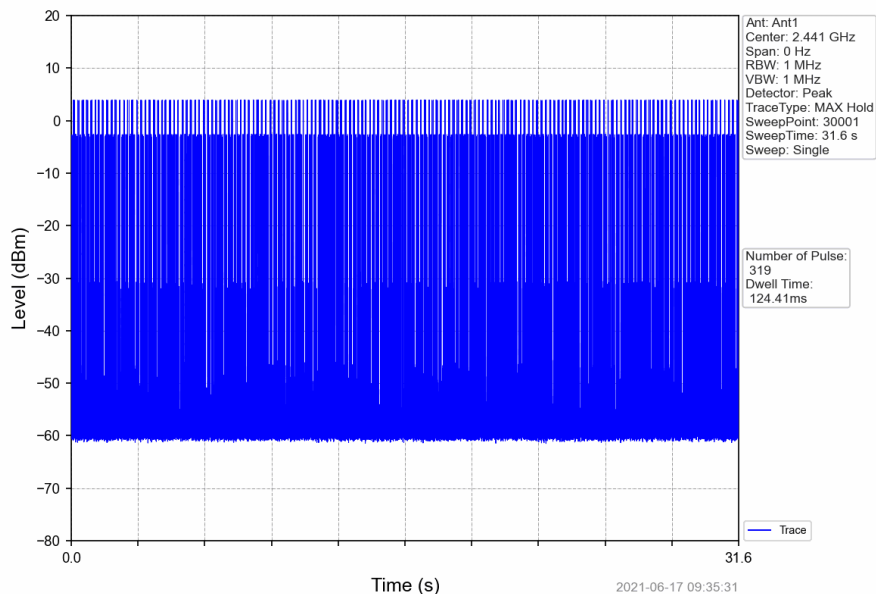
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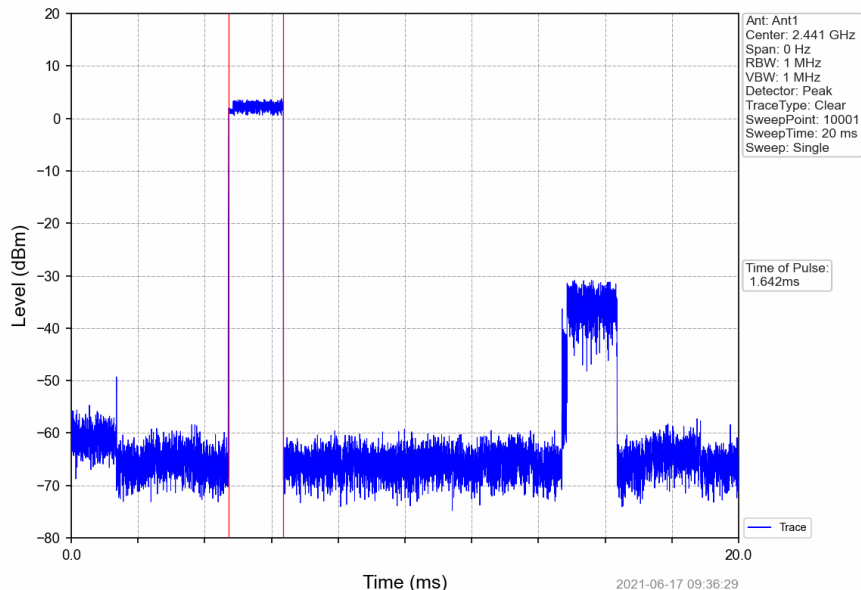
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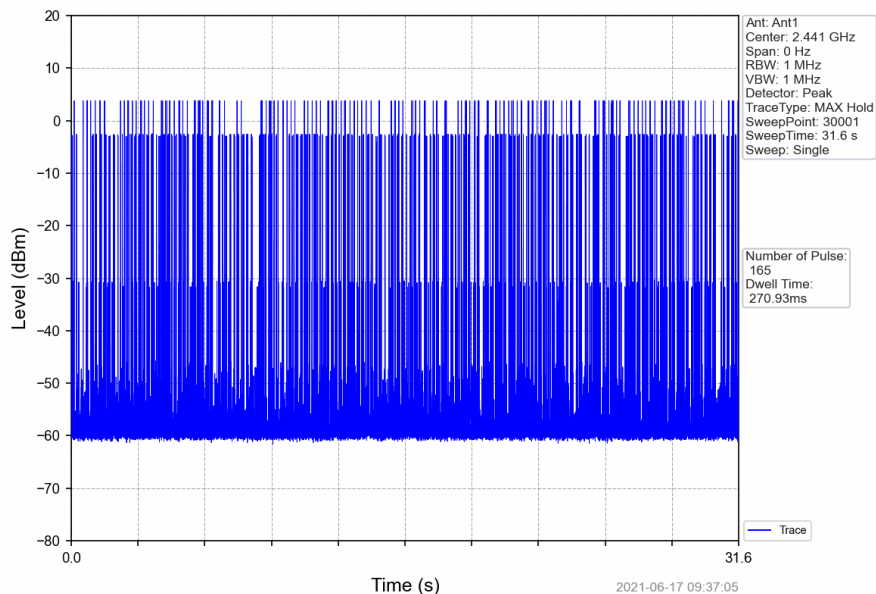
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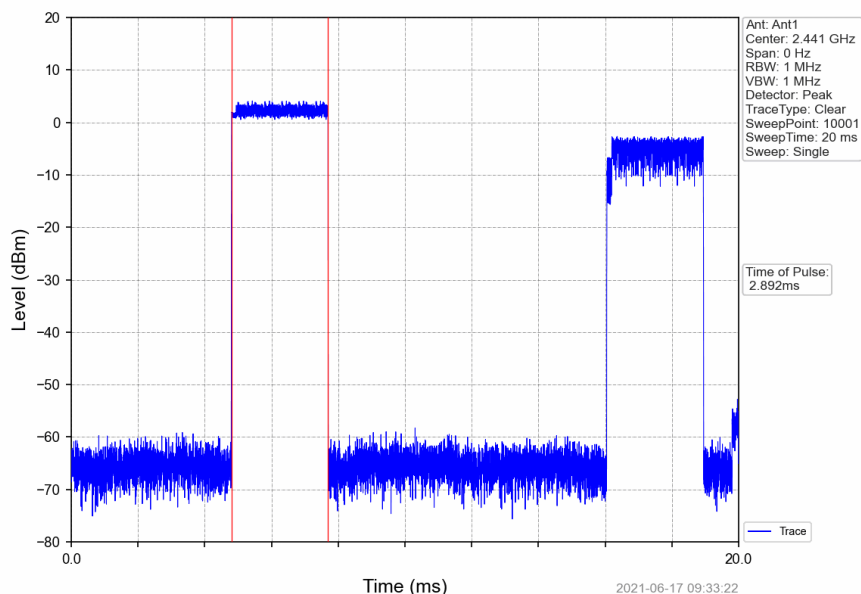
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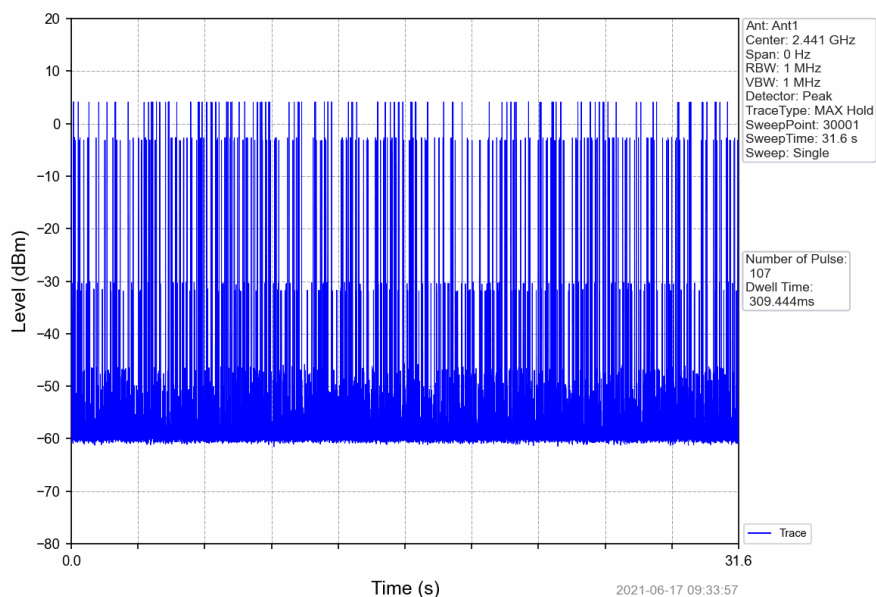
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