

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240700296902

Page: 102 of 146

For Left earbud:

## 1. Bandwidth

### 1.1 Test Result

#### 1.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.948	/	Pass
		2441	DH5	1	0.943	/	Pass
		2480	DH5	1	0.932	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.178	/	Pass
		2441	2DH5	1	1.182	/	Pass
		2480	2DH5	1	1.179	/	Pass
8DPSK	SISO	2402	3DH5	1	1.181	/	Pass
		2441	3DH5	1	1.188	/	Pass
		2480	3DH5	1	1.182	/	Pass

#### 1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.046	/	Pass
		2441	DH5	1	1.046	/	Pass
		2480	DH5	1	1.049	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.321	/	Pass
		2441	2DH5	1	1.327	/	Pass
		2480	2DH5	1	1.329	/	Pass
8DPSK	SISO	2402	3DH5	1	1.307	/	Pass
		2441	3DH5	1	1.311	/	Pass
		2480	3DH5	1	1.309	/	Pass



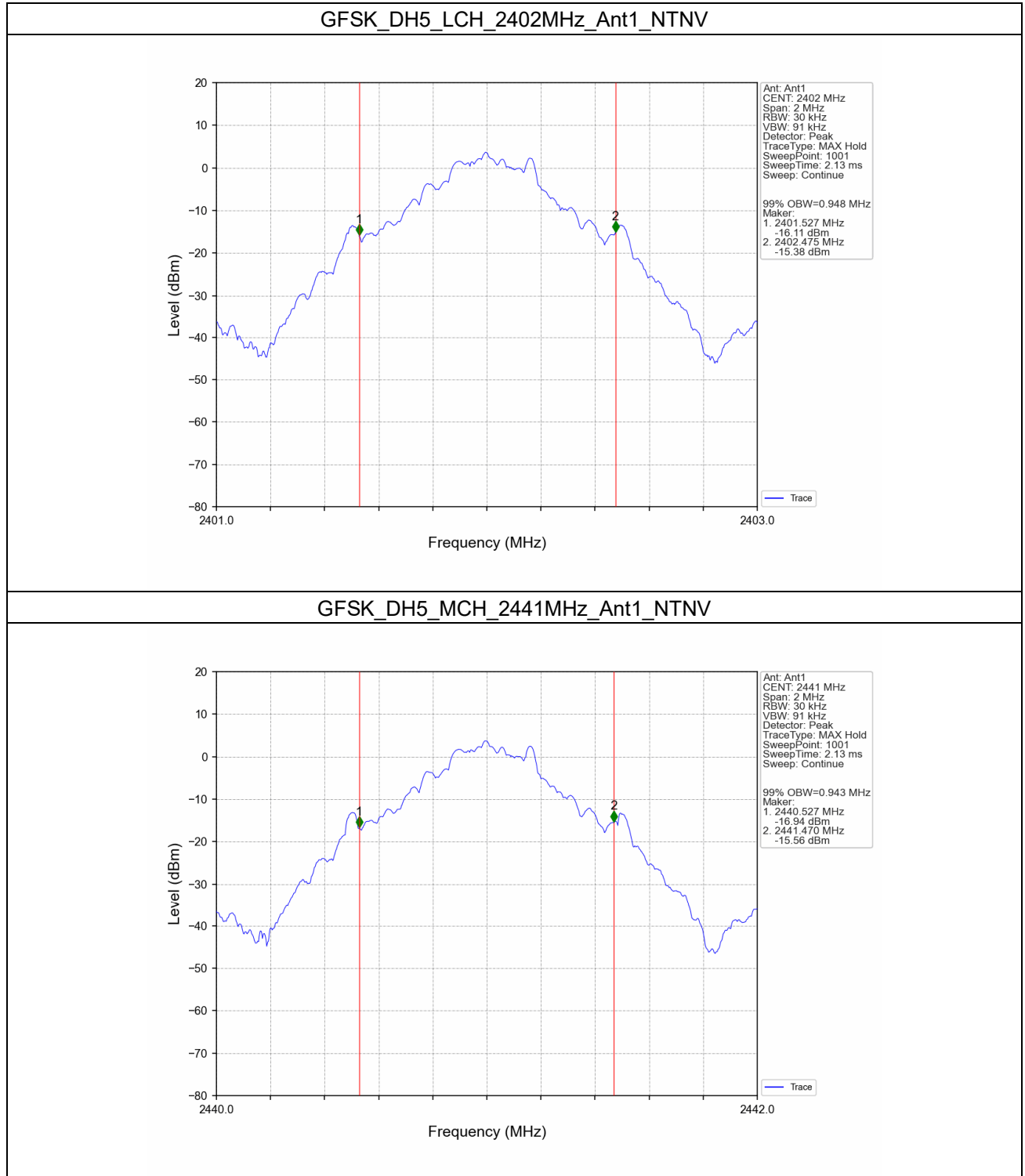
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### 1.2 Test Graph

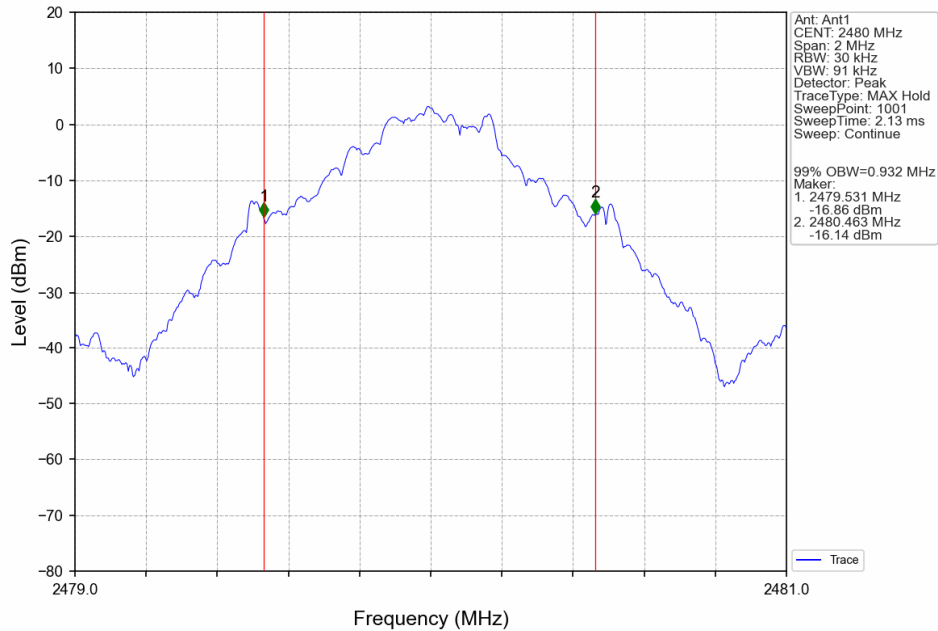
#### 1.2.1 OBW



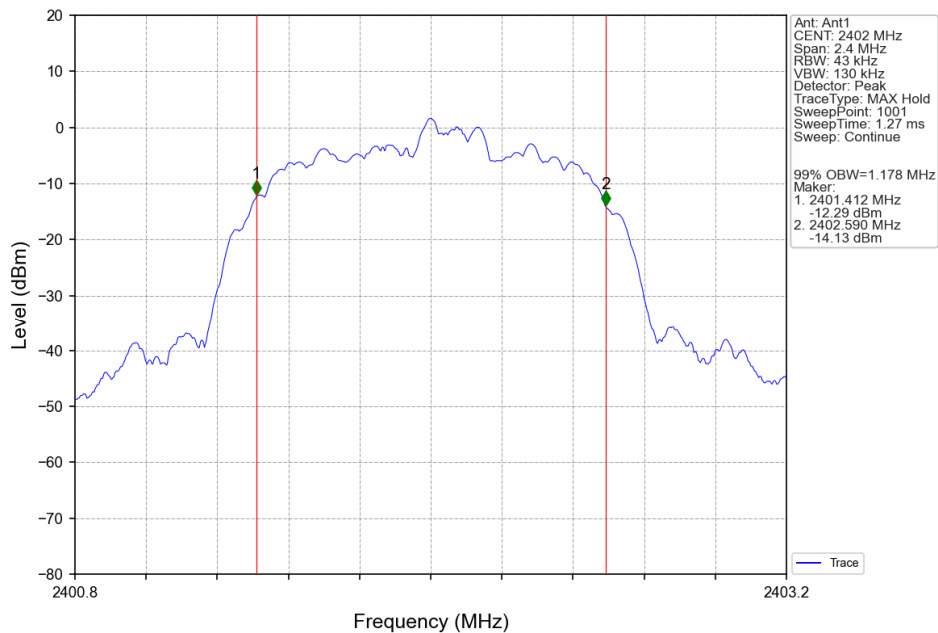
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### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



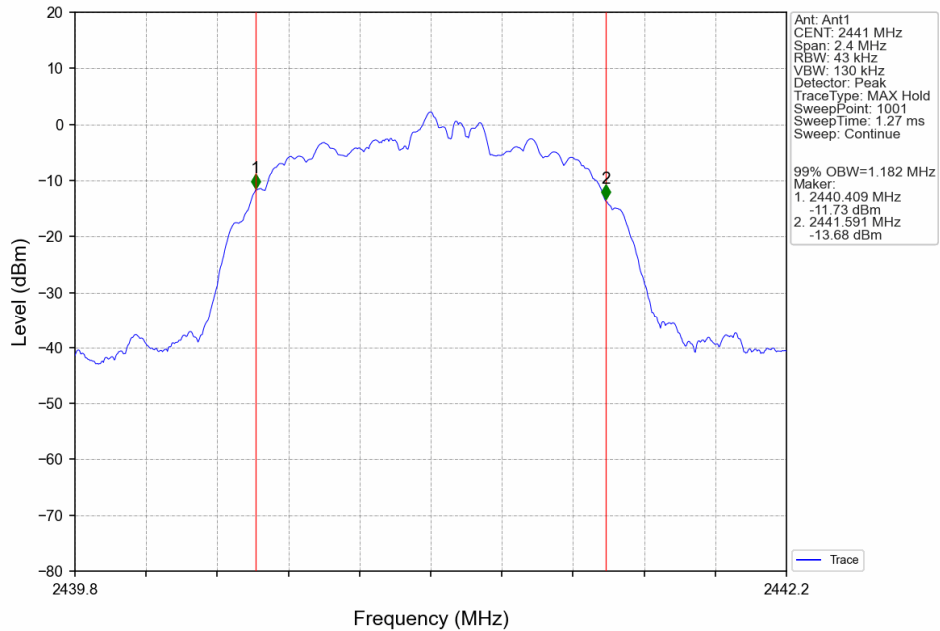
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



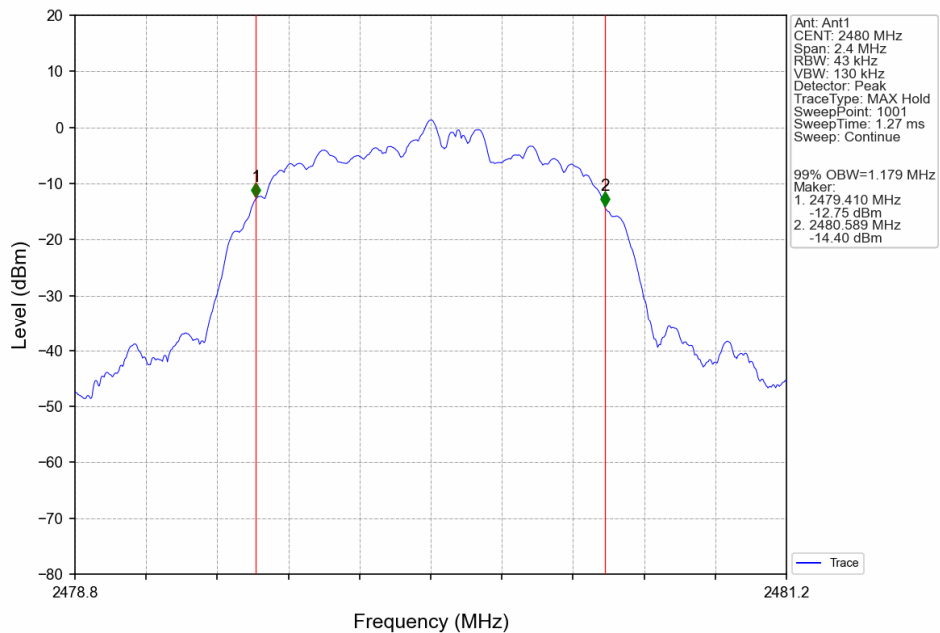
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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

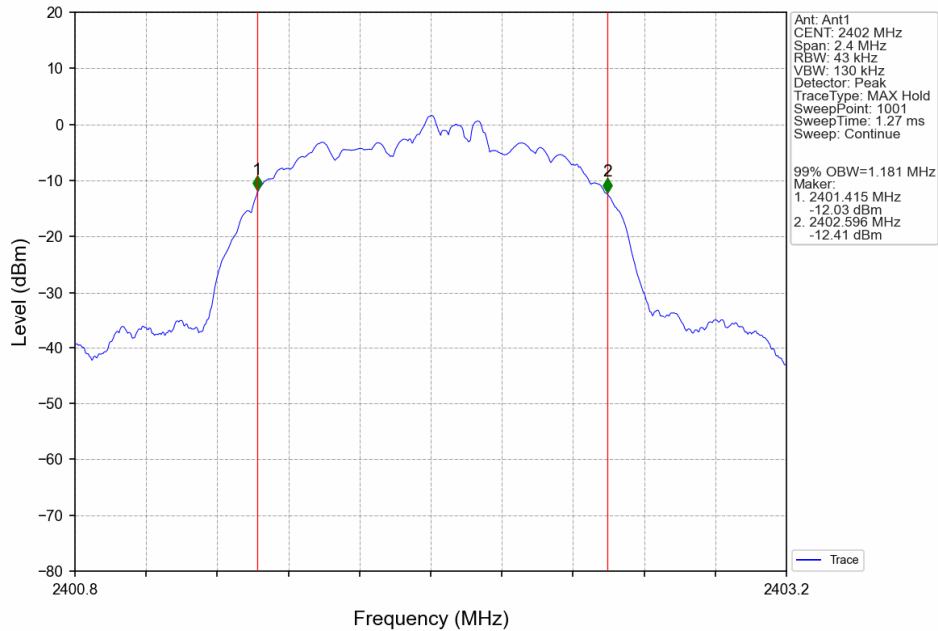


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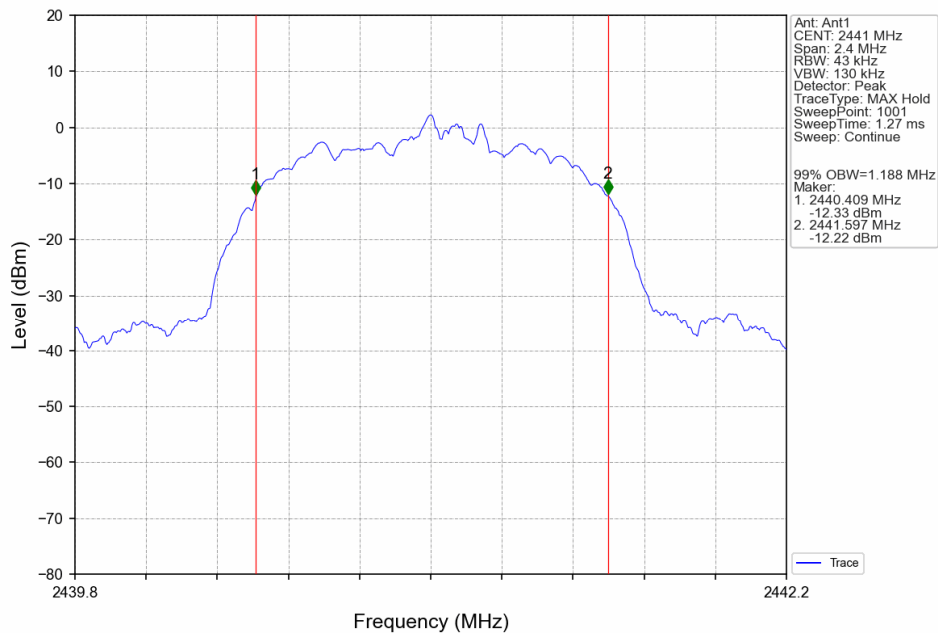
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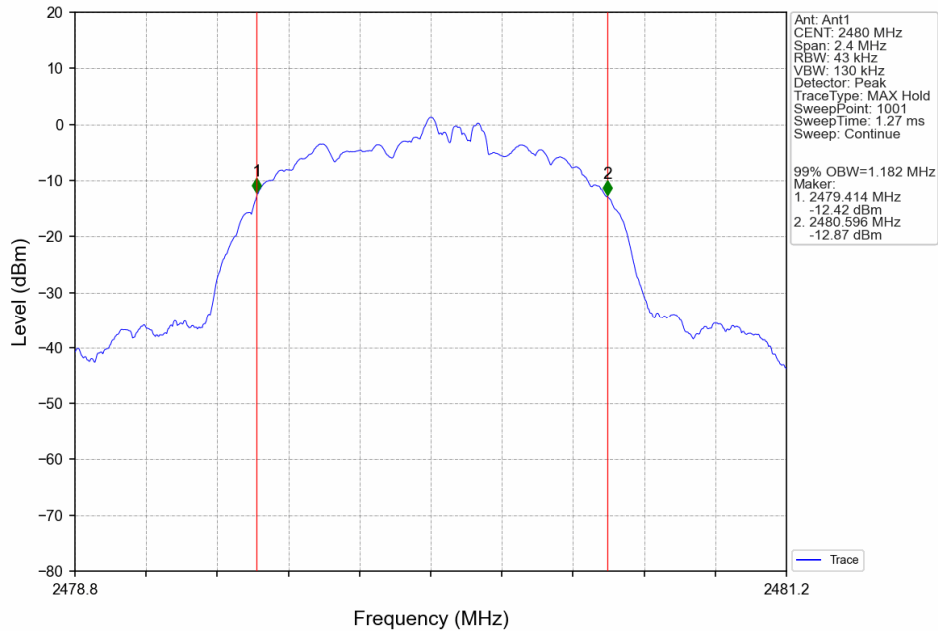
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



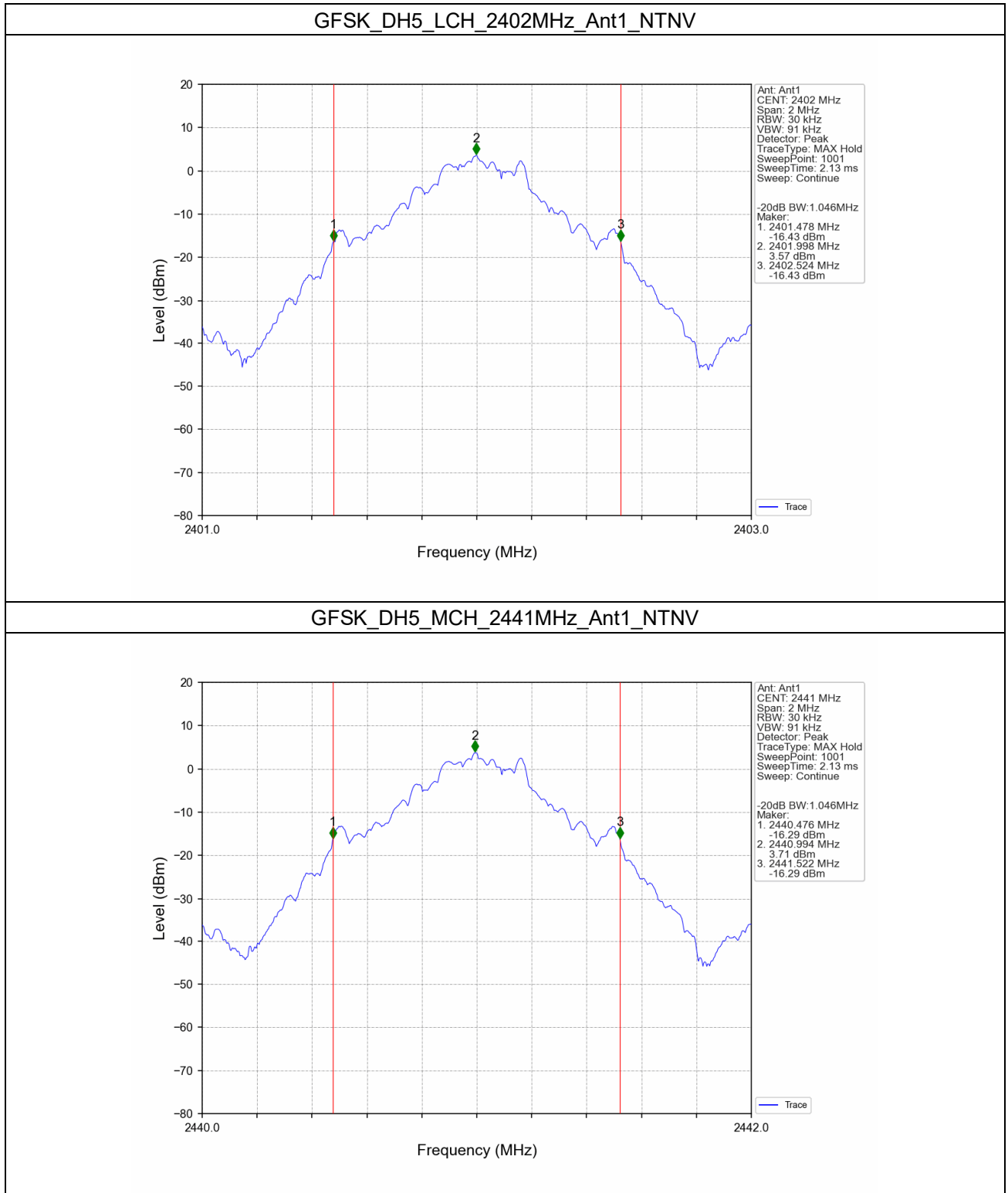
### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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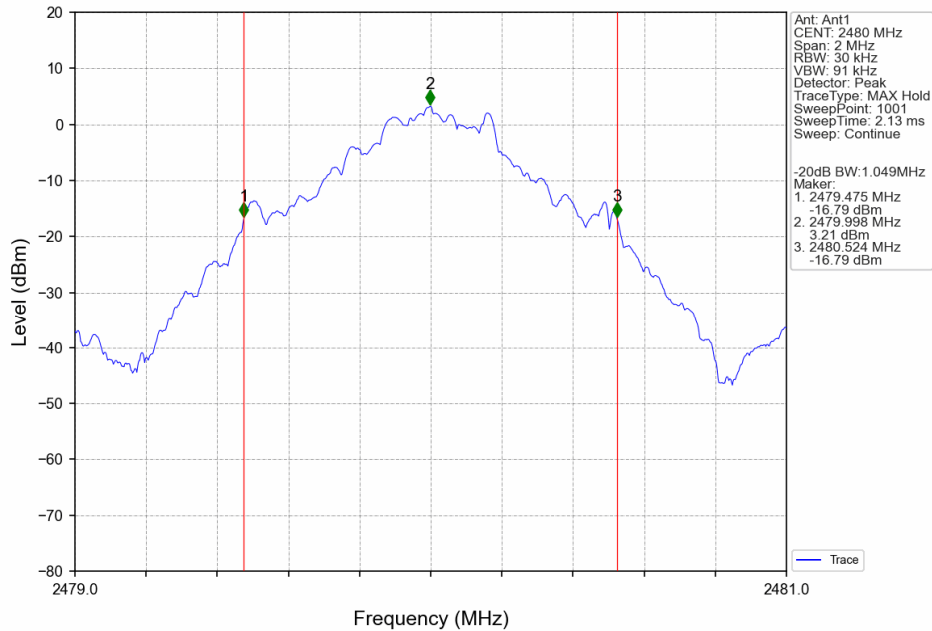
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### 1.2.2 20dB BW

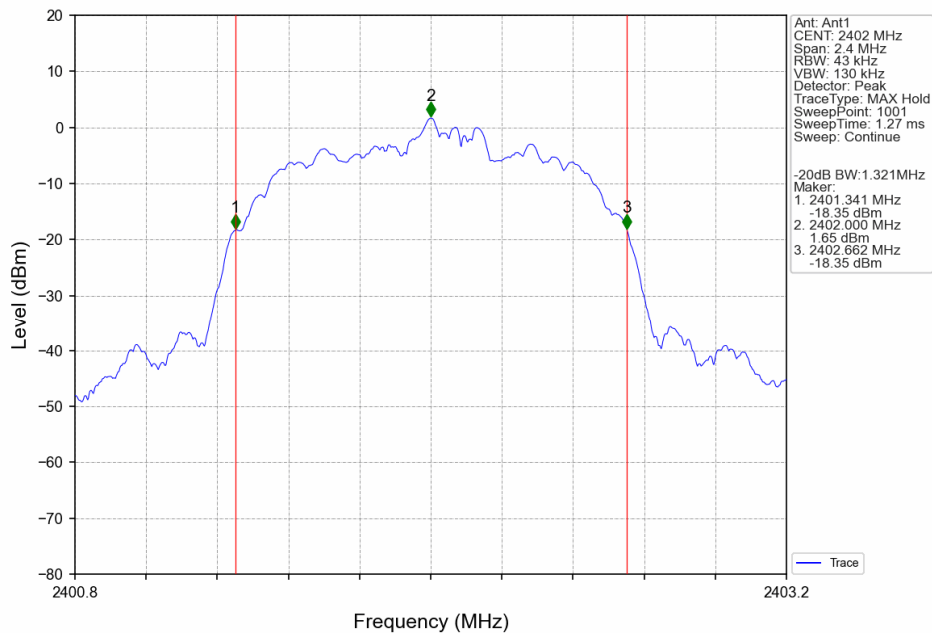




GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



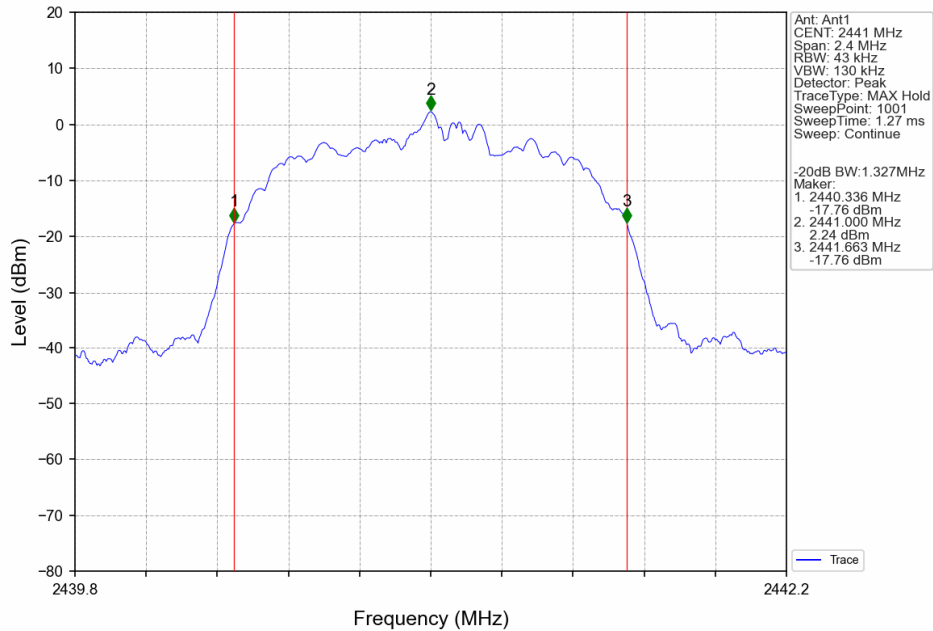
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



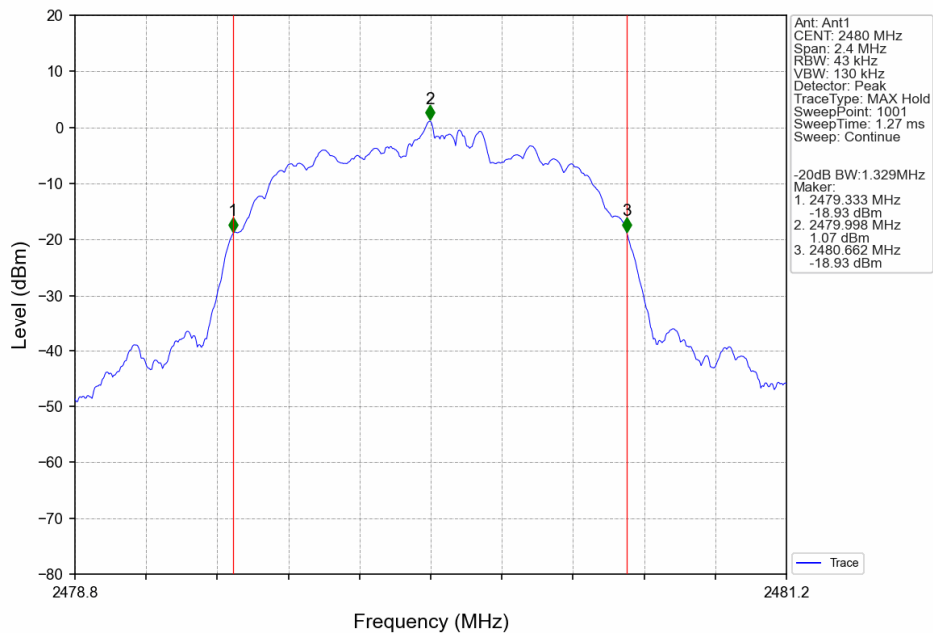
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### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



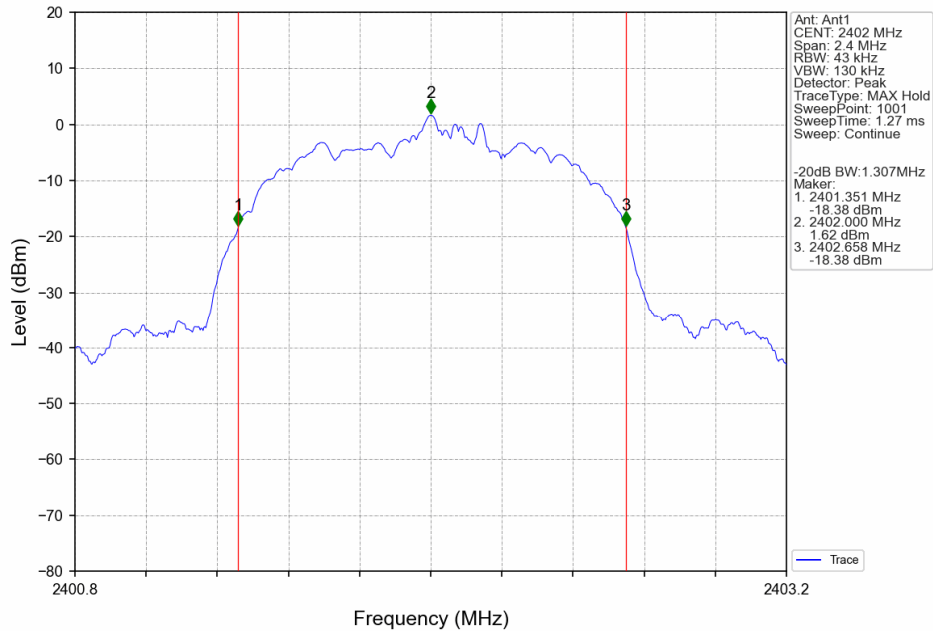
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



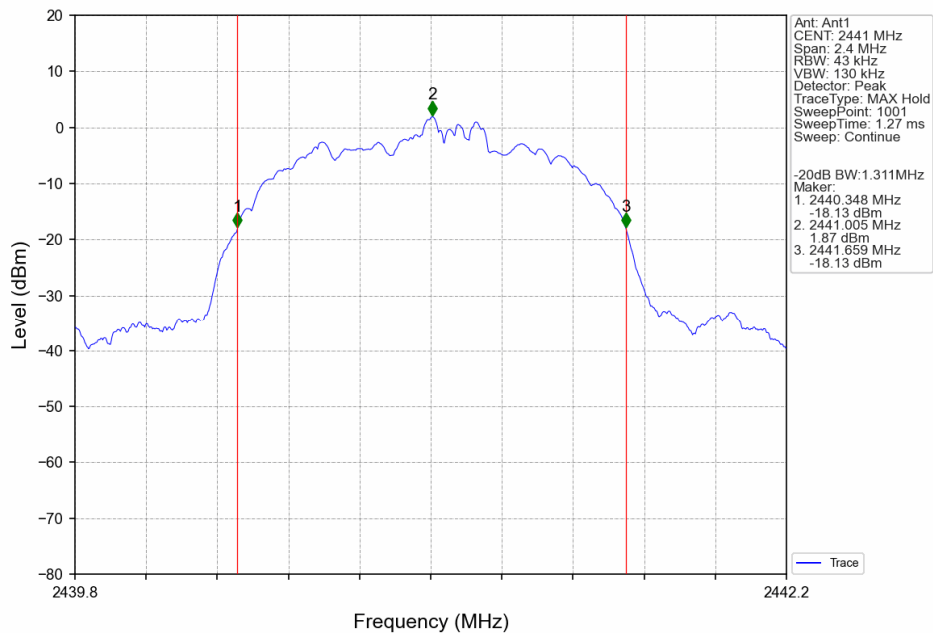
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



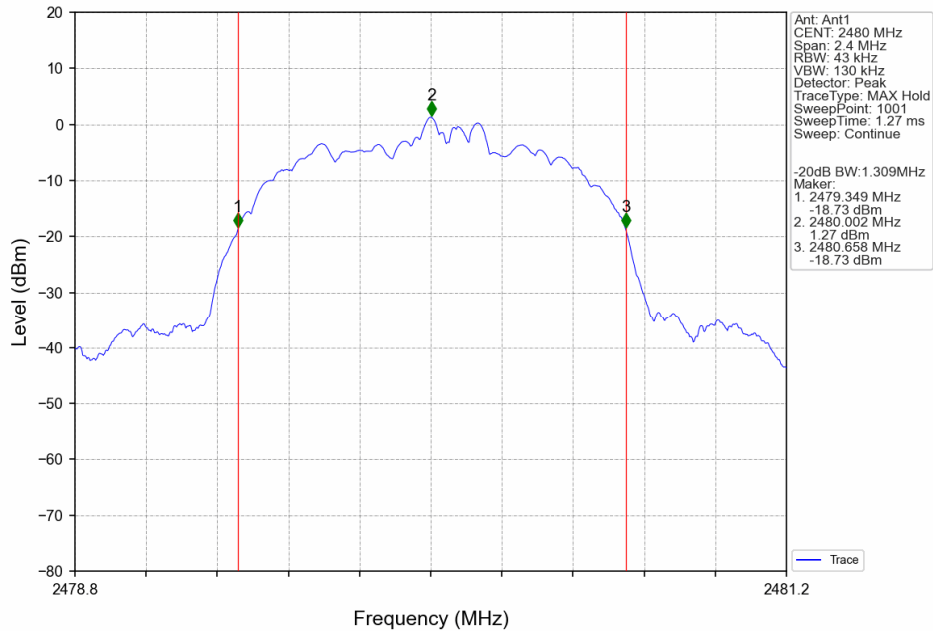
### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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SZEMC-TRF-01 Rev. A/1

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## 2. Maximum Conducted Output Power

### 2.1 Test Result

#### 2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	4.74	<=20.97	Pass
		2441	DH5	4.86	<=20.97	Pass
		2480	DH5	4.43	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	4.16	<=20.97	Pass
		2441	2DH5	4.43	<=20.97	Pass
		2480	2DH5	3.87	<=20.97	Pass
8DPSK	SISO	2402	3DH5	4.53	<=20.97	Pass
		2441	3DH5	4.70	<=20.97	Pass
		2480	3DH5	4.22	<=20.97	Pass

Note1: Antenna Gain: Ant1: 0.70dBi;

## 3. Carrier Frequency Separation

### 3.1 Test Result

#### 3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.986	1.049	>=0.699	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.989	1.329	>=0.886	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.311	>=0.874	Pass



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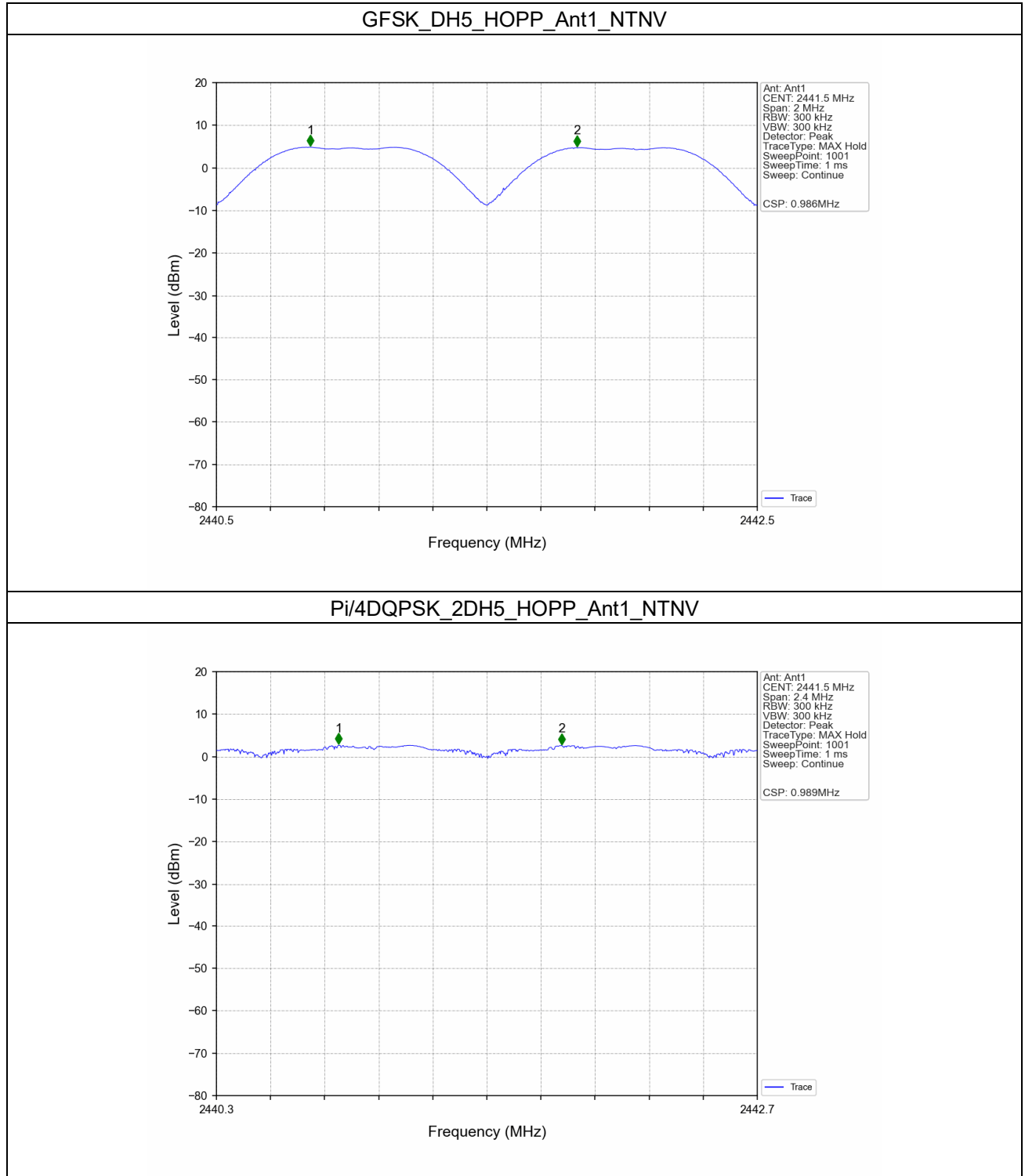
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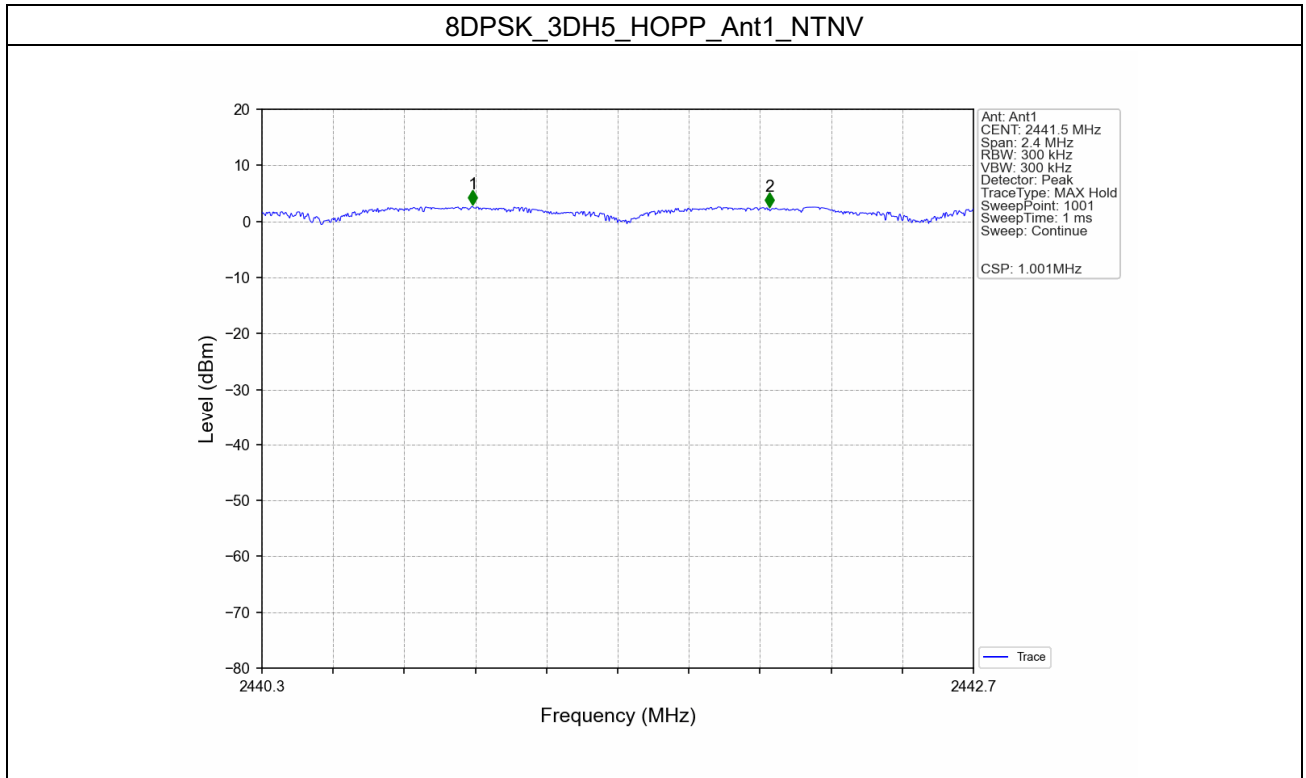
### 3.2 Test Graph

#### 3.2.1 Ant1



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## 4. Number of Hopping Frequencies

### 4.1 Test Result

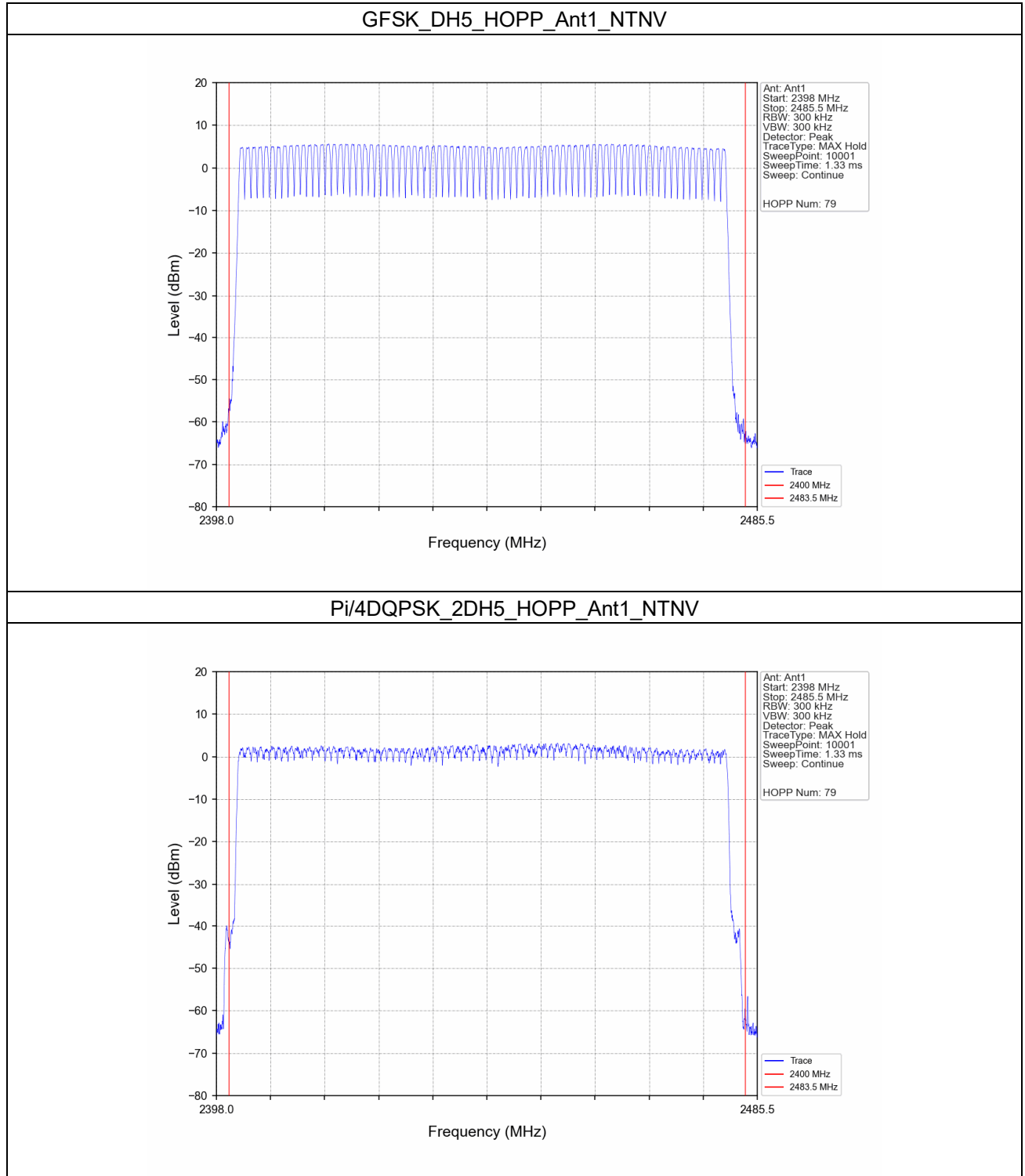
#### 4.1.1 HoppNum

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

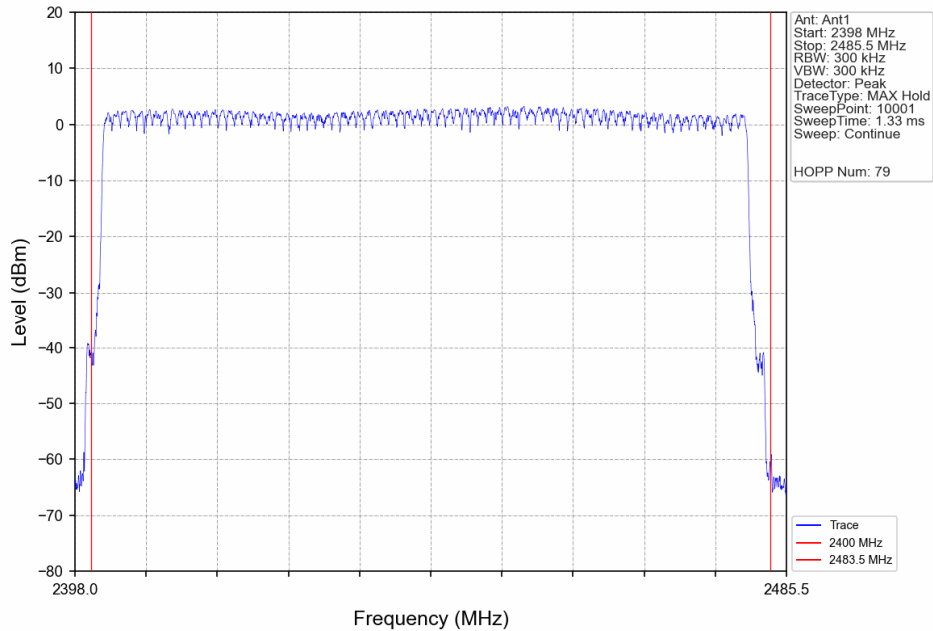


### 4.2 Test Graph

#### 4.2.1 HoppNum



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



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### 5. Time of Occupancy (Dwell Time)

#### 5.1 Test Result

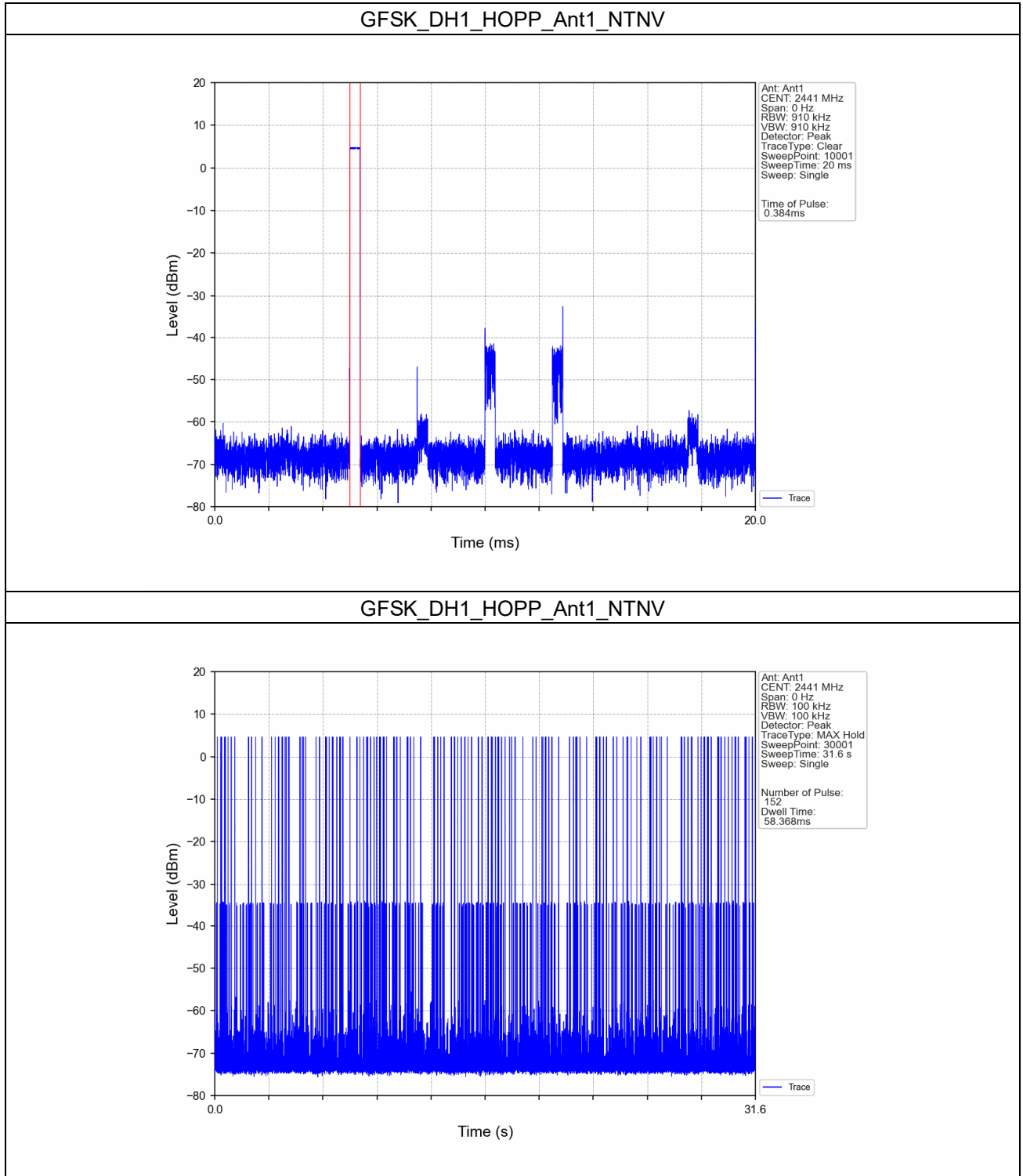
##### 5.1.1 Ant1

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	0.384	31.600	152	58.368	<=400	Pass
			DH3	1.650	31.600	108	178.200	<=400	Pass
			DH5	2.896	31.600	79	228.784	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.402	31.600	152	61.104	<=400	Pass
			2DH3	1.656	31.600	112	185.472	<=400	Pass
			2DH5	2.902	31.600	77	223.454	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	151	59.192	<=400	Pass
			3DH3	1.654	31.600	96	158.784	<=400	Pass
			3DH5	2.904	31.600	81	235.224	<=400	Pass



### 5.2 Test Graph

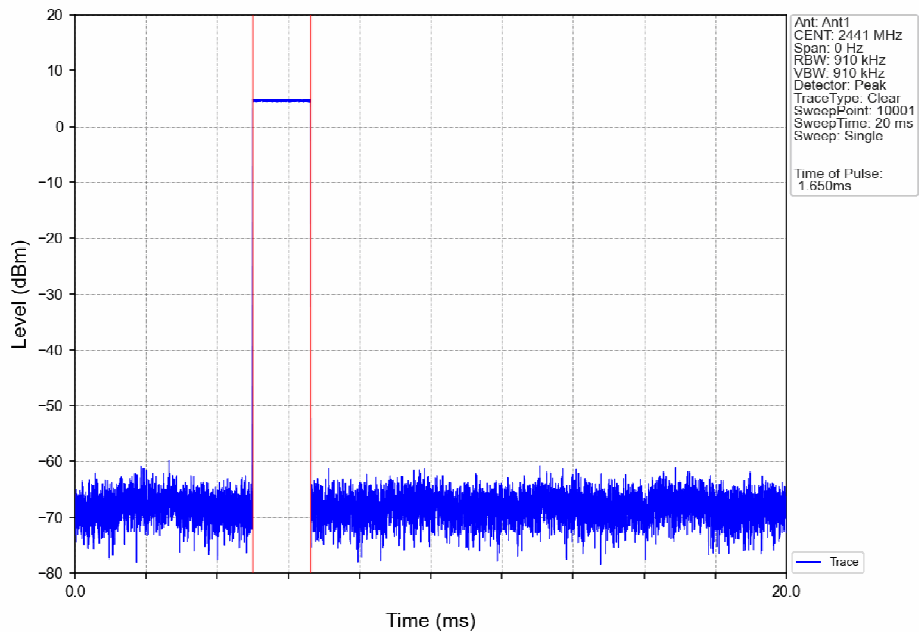
#### 5.2.1 Ant1



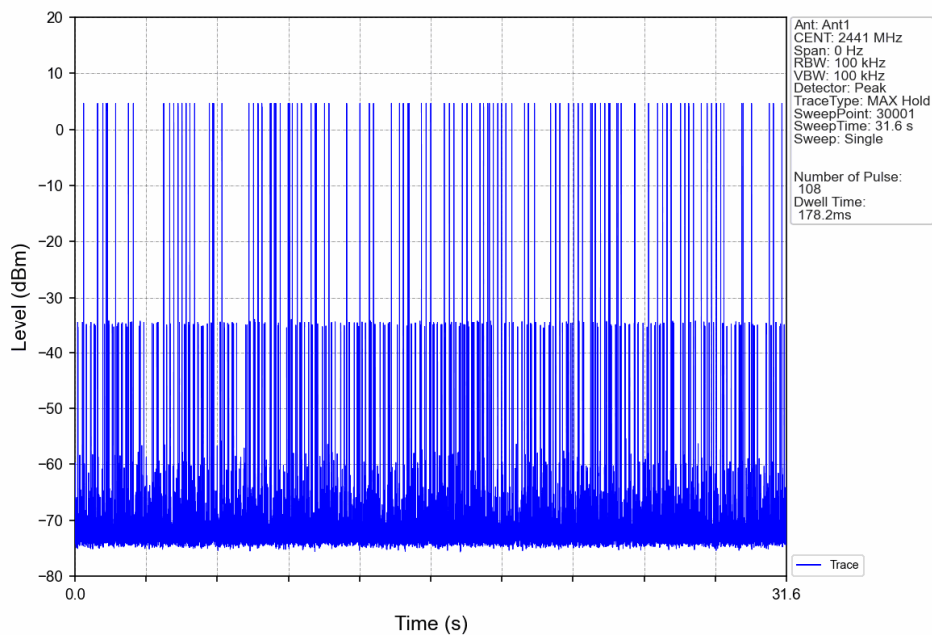
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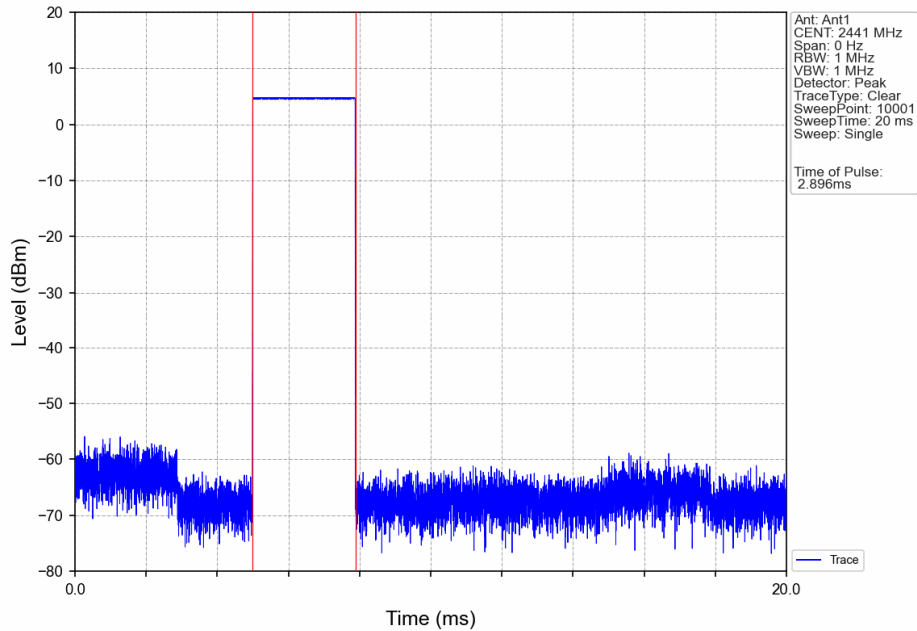
GFSK\_DH3\_HOPP\_Ant1\_NTNV



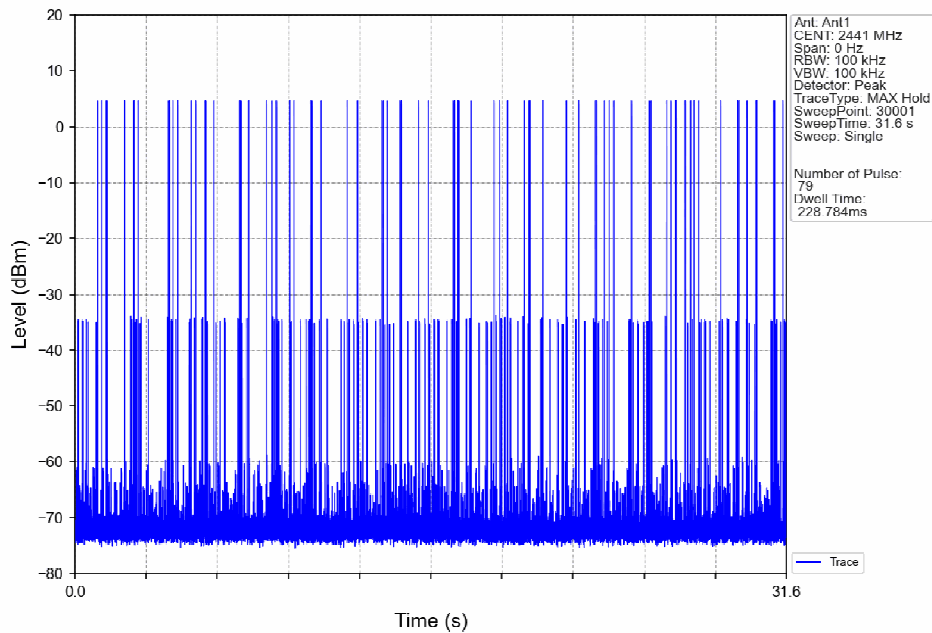
GFSK\_DH3\_HOPP\_Ant1\_NTNV



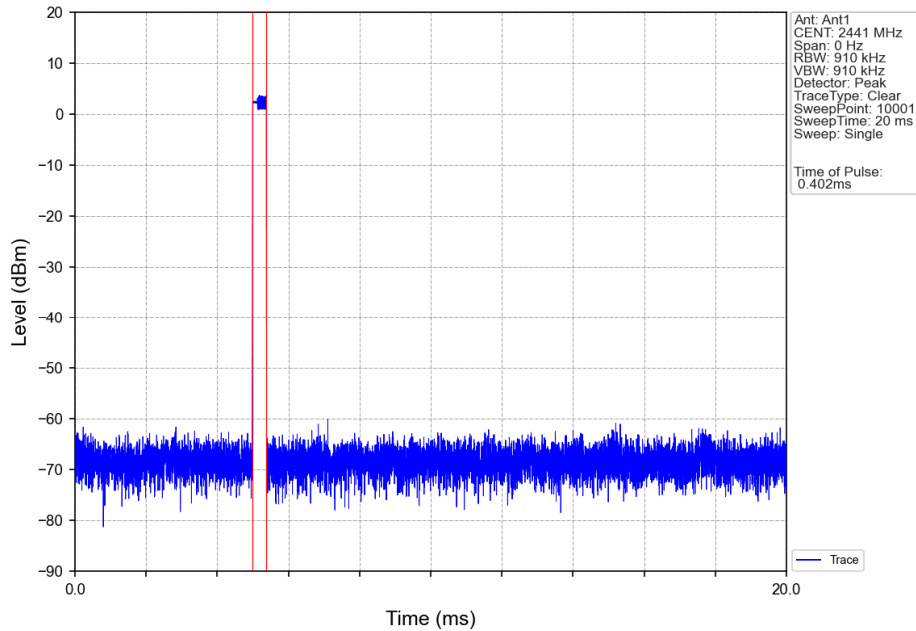
GFSK\_DH5\_HOPP\_Ant1\_NTNV



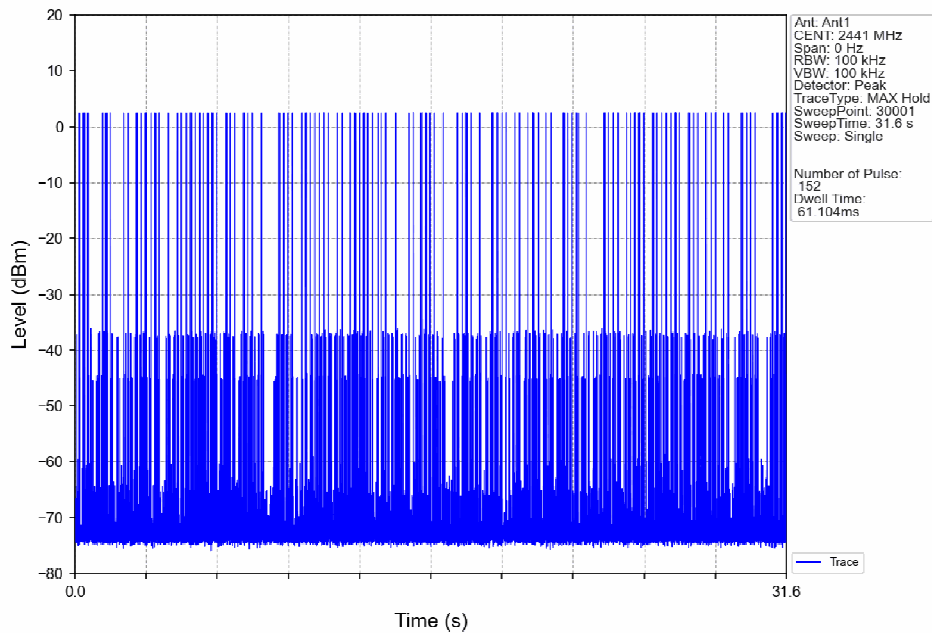
GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



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

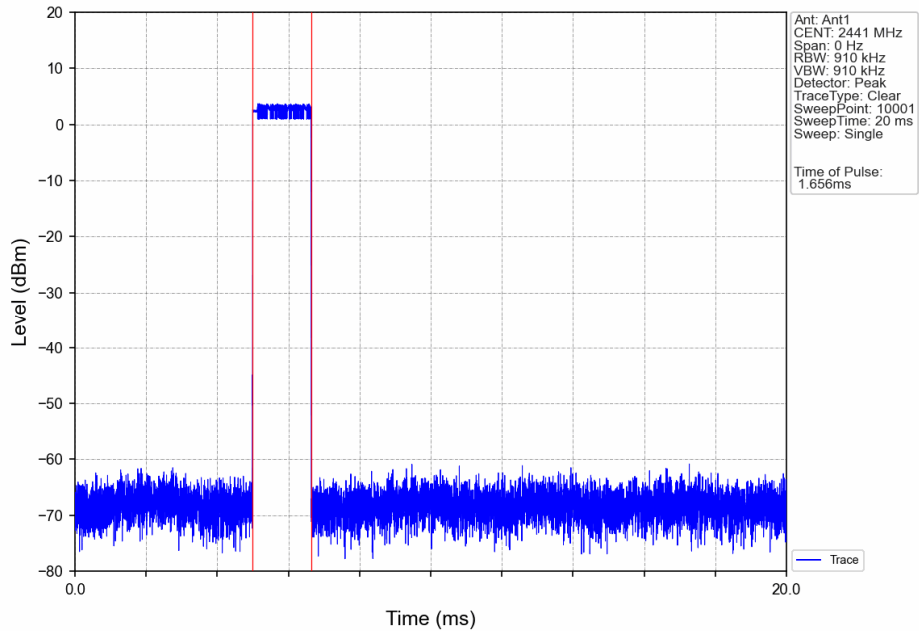


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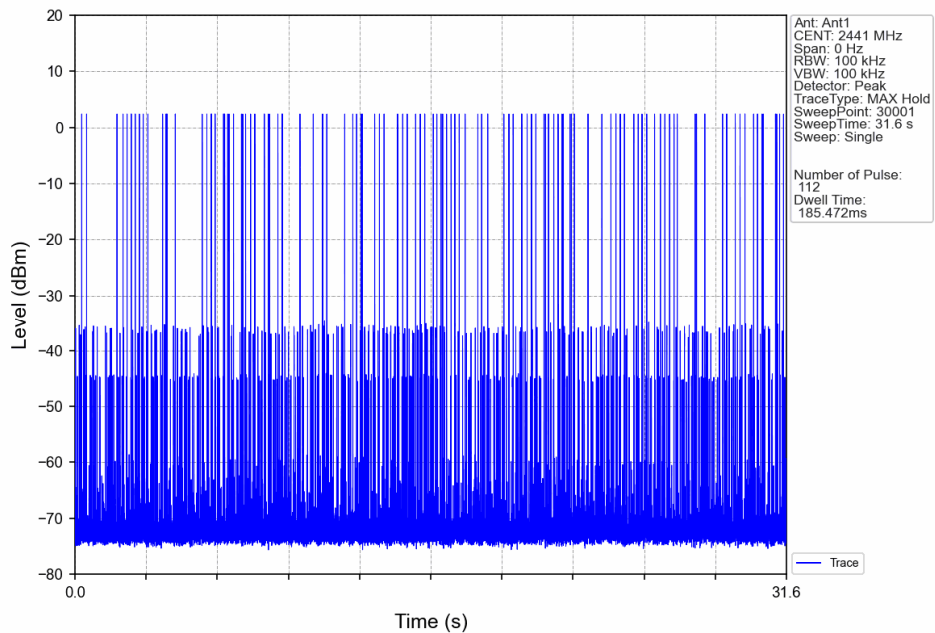
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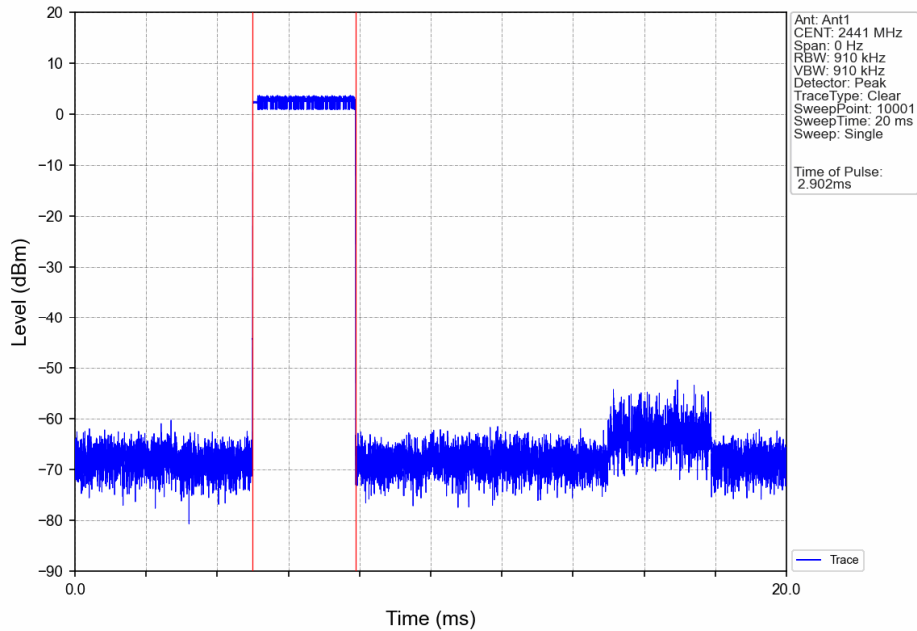
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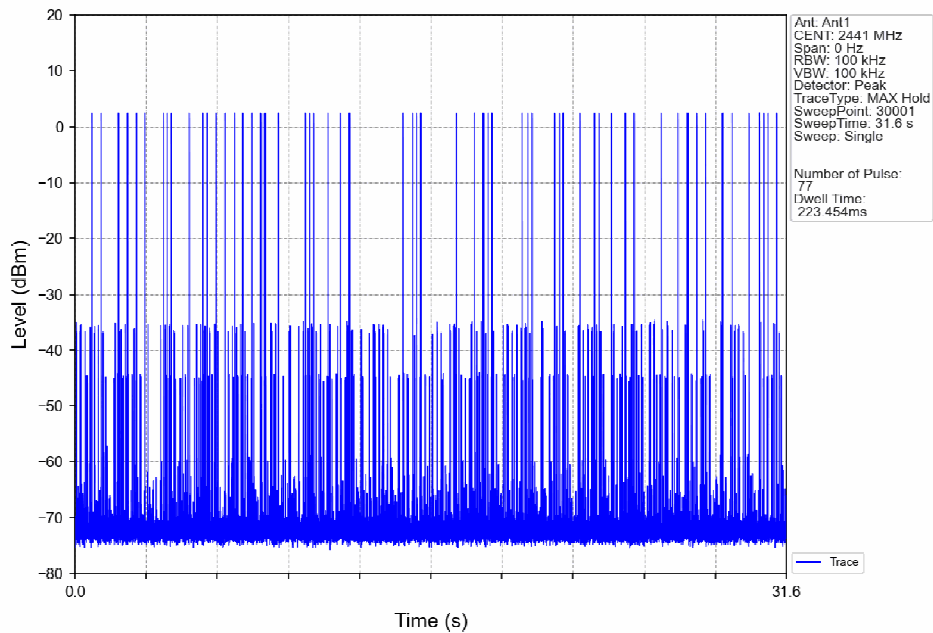
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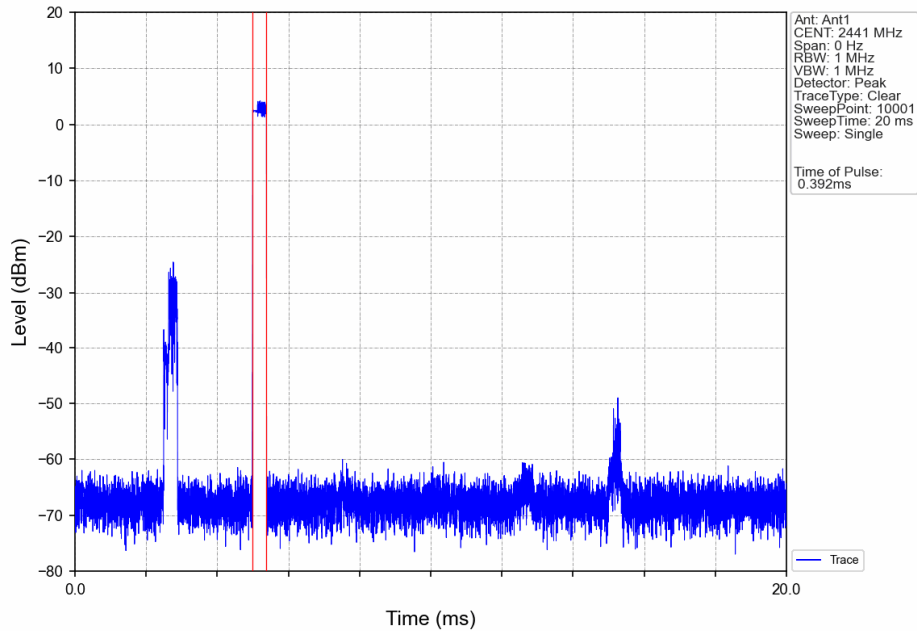
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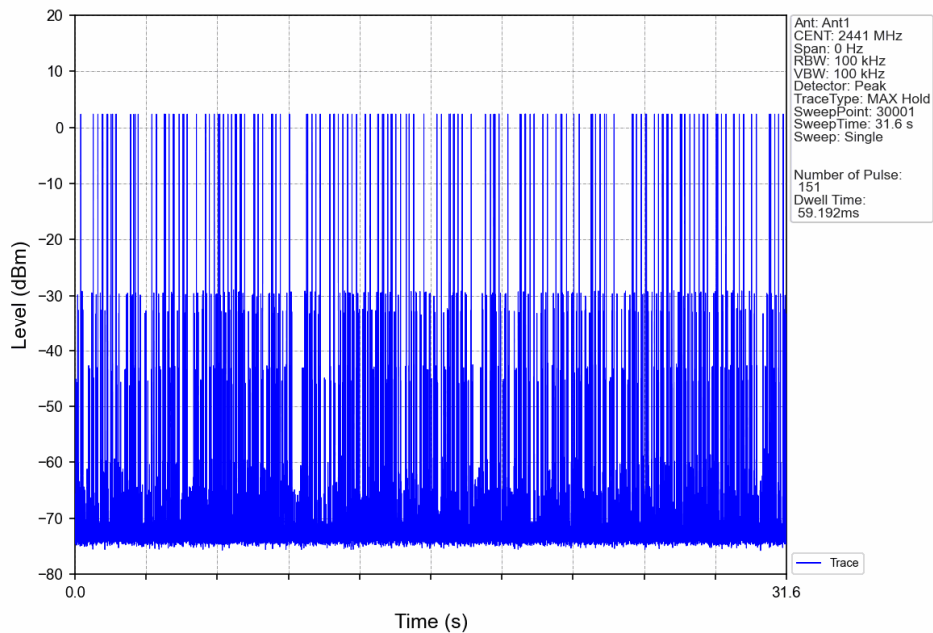
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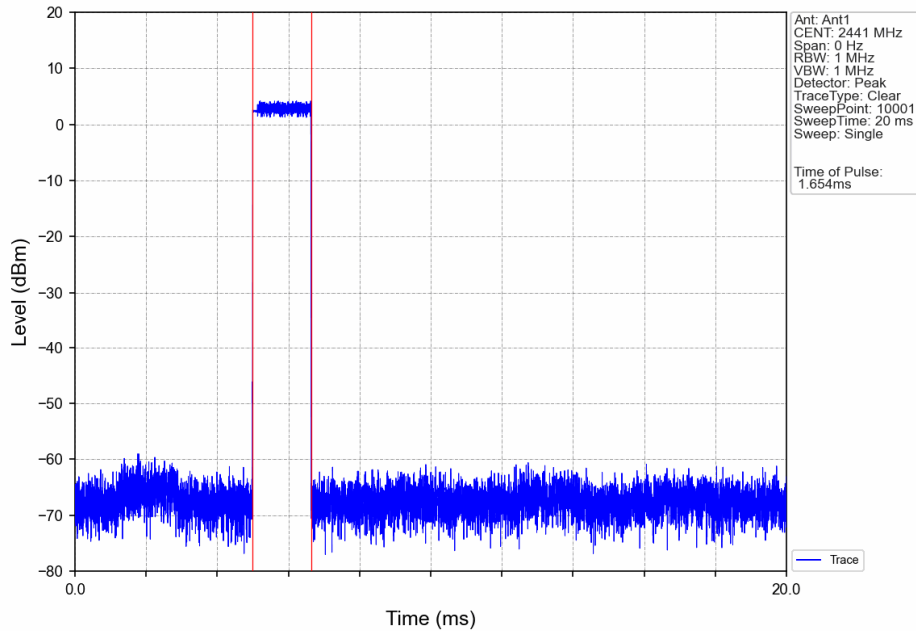
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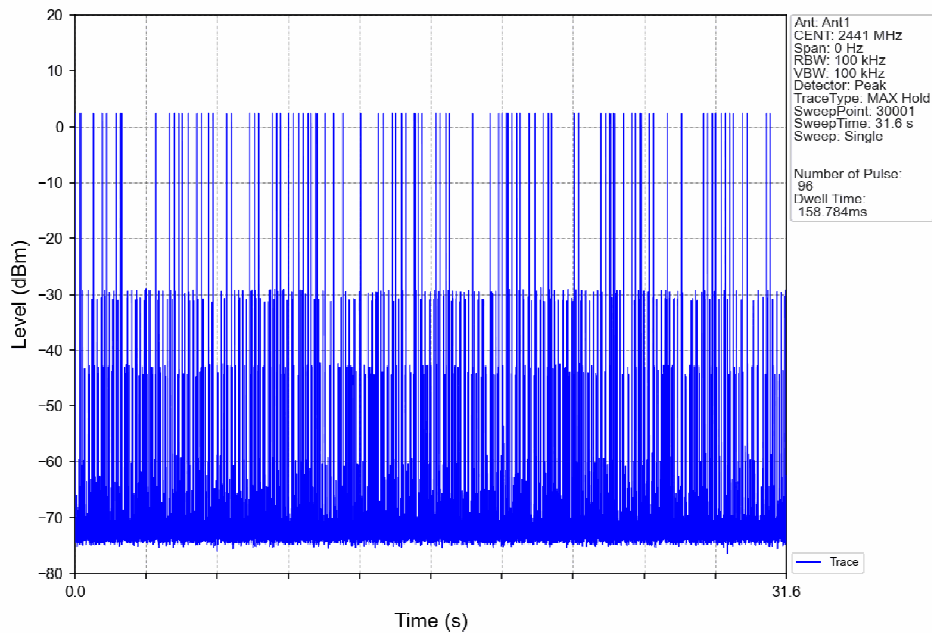
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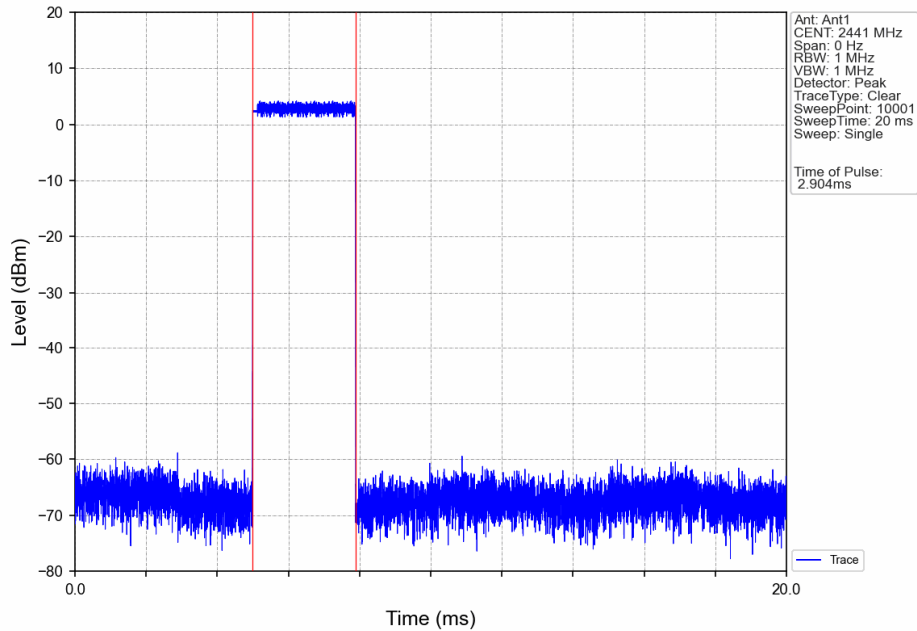
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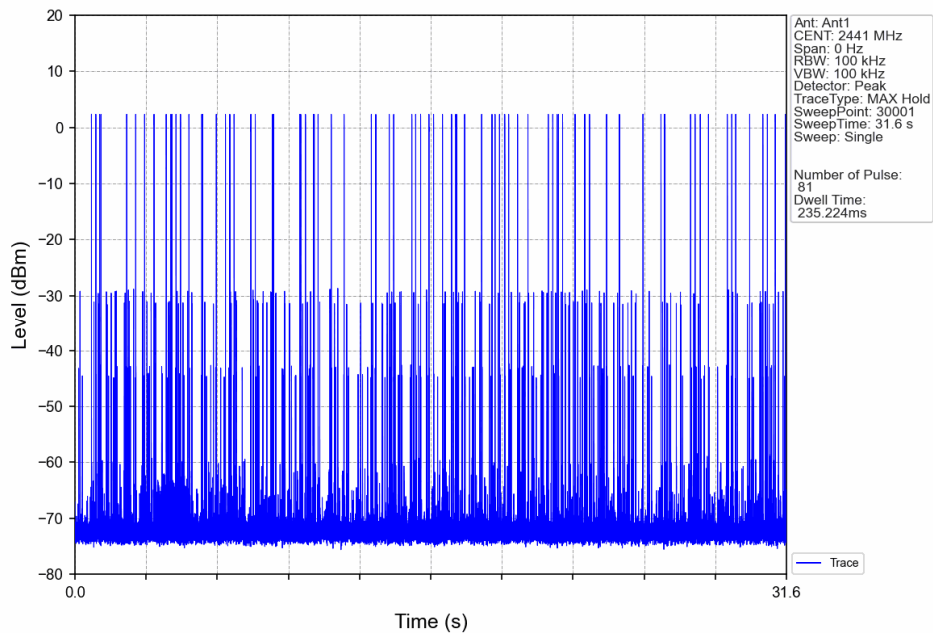
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### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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





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

### 6.1 Test Result

#### 6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	4.53
		2441	DH5	1	4.77
		2480	DH5	1	4.32
Pi/4DQPSK	SISO	2402	2DH5	1	1.87
		2441	2DH5	1	2.43
		2480	2DH5	1	1.51
8DPSK	SISO	2402	3DH5	1	1.98
		2441	3DH5	1	2.51
		2480	3DH5	1	1.59

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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### 6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.77	-15.23	Pass
		2441	DH5	1	4.77	-15.23	Pass
		2480	DH5	1	4.77	-15.23	Pass
		HOPP	DH5	1	4.77	-15.23	Pass
					4.77	-15.23	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.43	-17.57	Pass
		2441	2DH5	1	2.43	-17.57	Pass
		2480	2DH5	1	2.43	-17.57	Pass
		HOPP	2DH5	1	2.43	-17.57	Pass
					2.43	-17.57	Pass
8DPSK	SISO	2402	3DH5	1	2.51	-17.49	Pass
		2441	3DH5	1	2.51	-17.49	Pass
		2480	3DH5	1	2.51	-17.49	Pass
		HOPP	3DH5	1	2.51	-17.49	Pass
					2.51	-17.49	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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Shenzhen Branch Testing & Calibration Laboratory

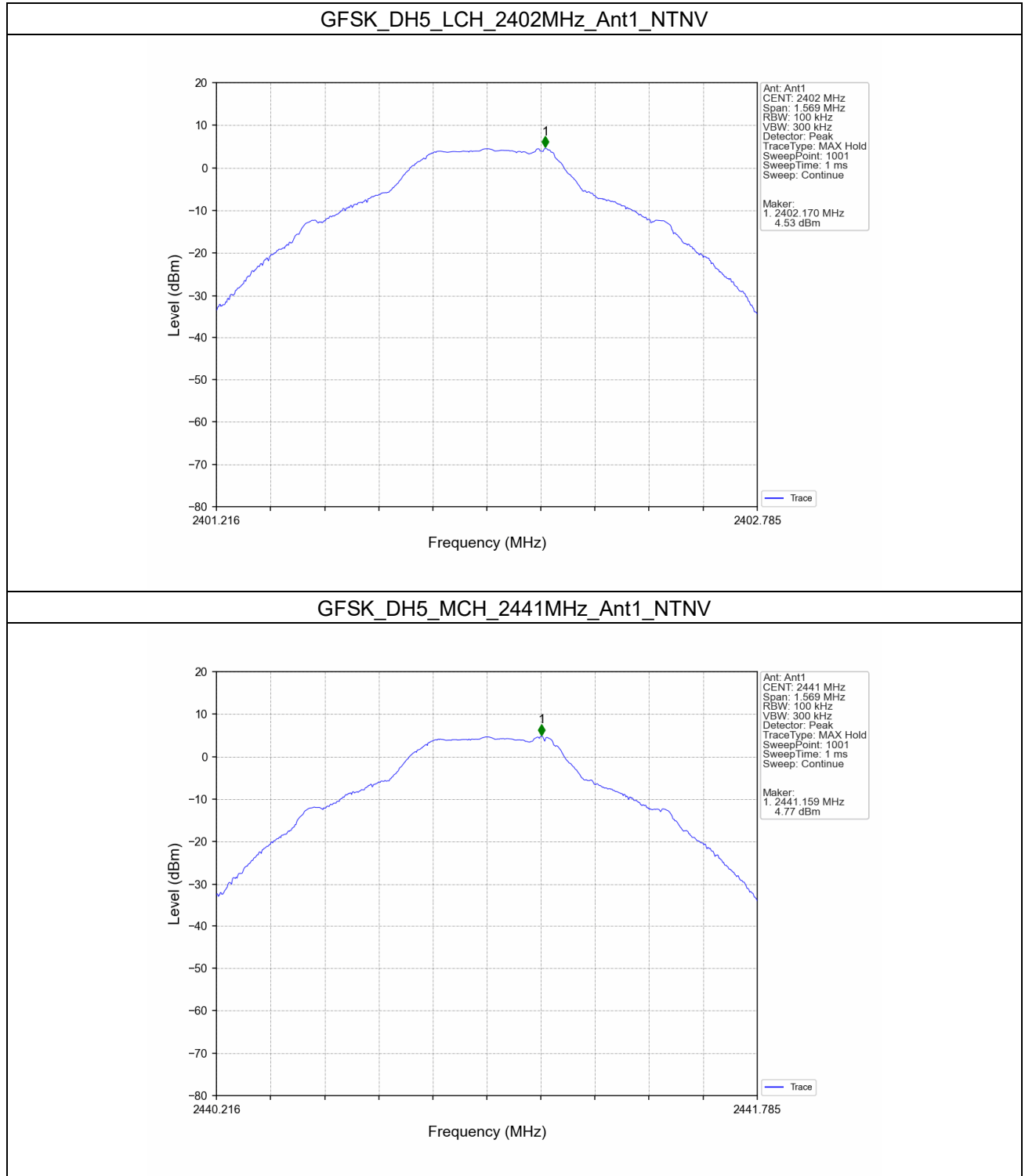
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 6.2 Test Graph

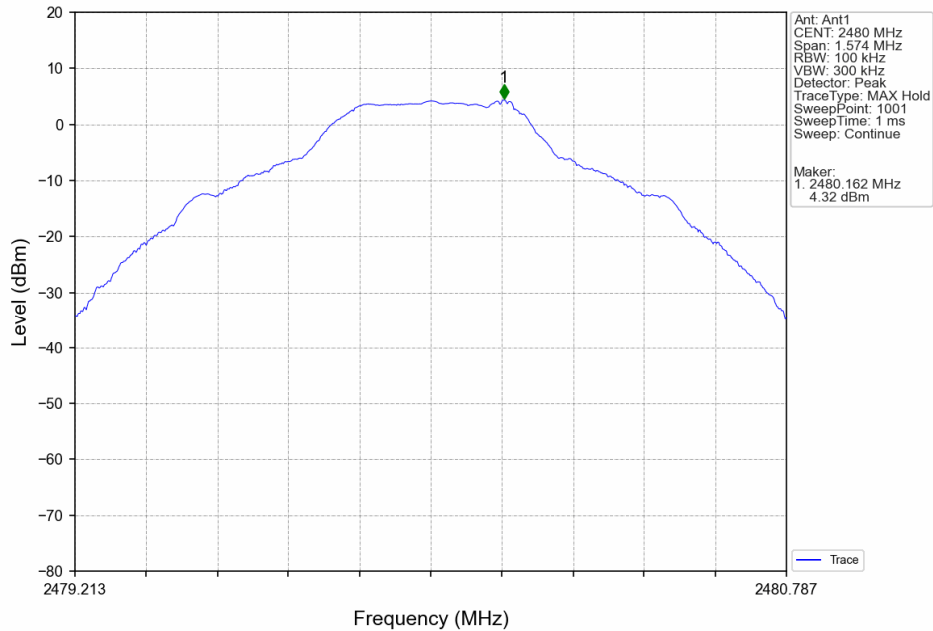
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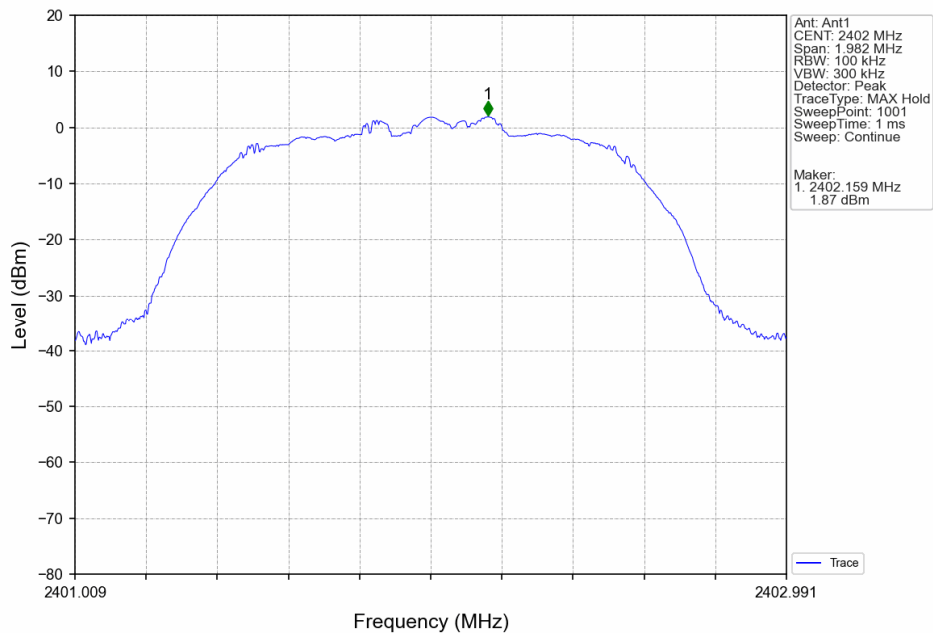
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



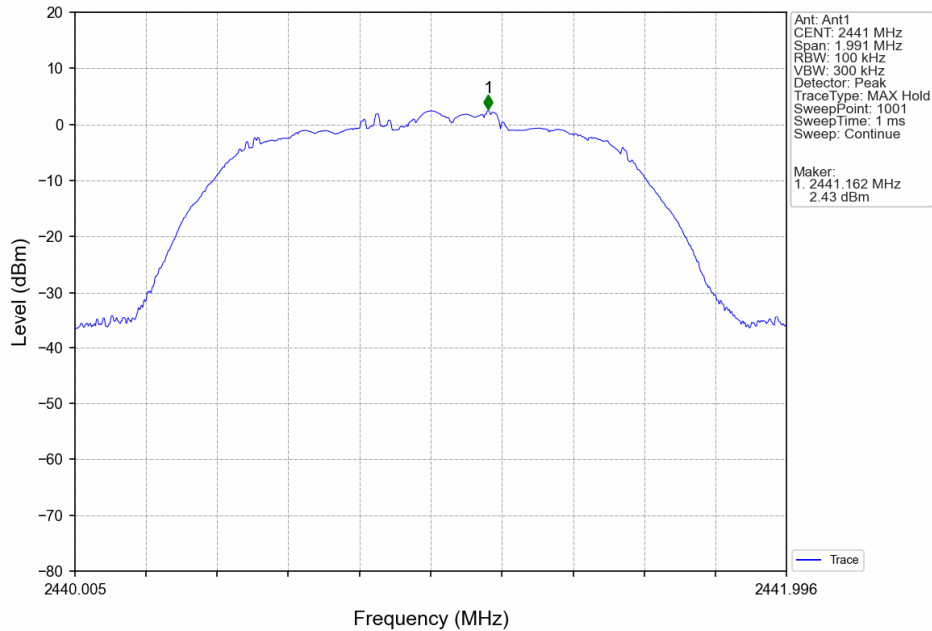
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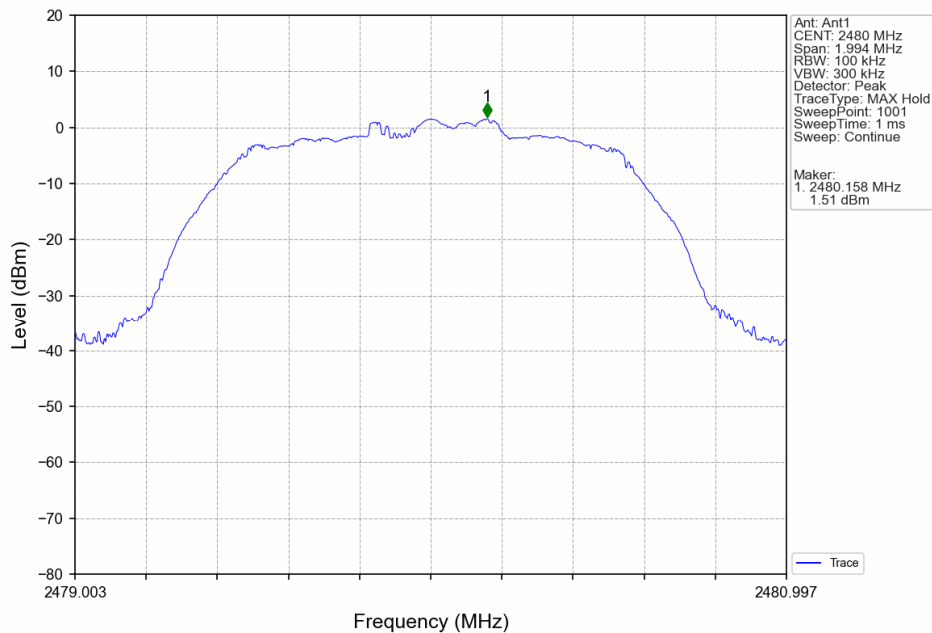
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV

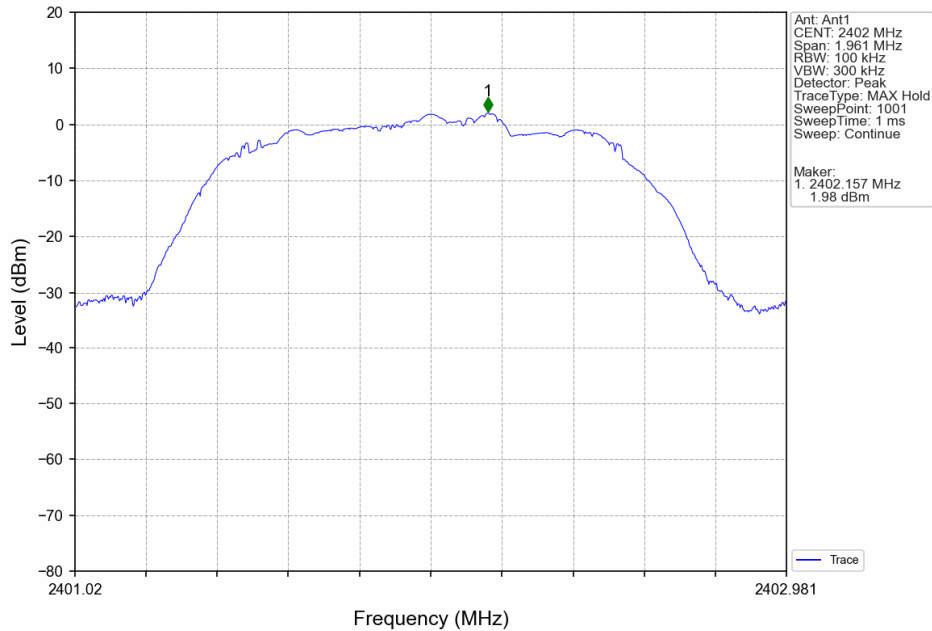


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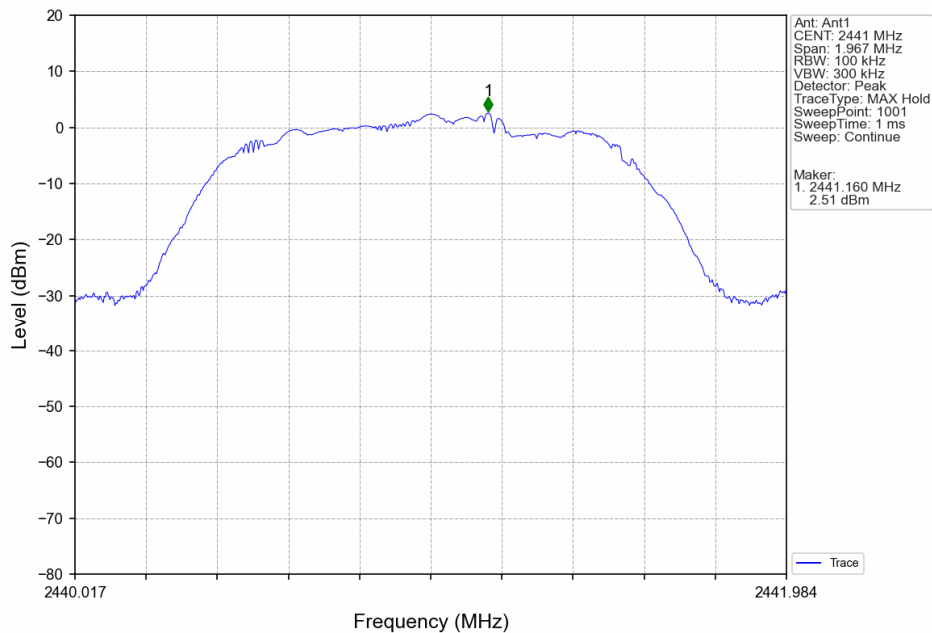




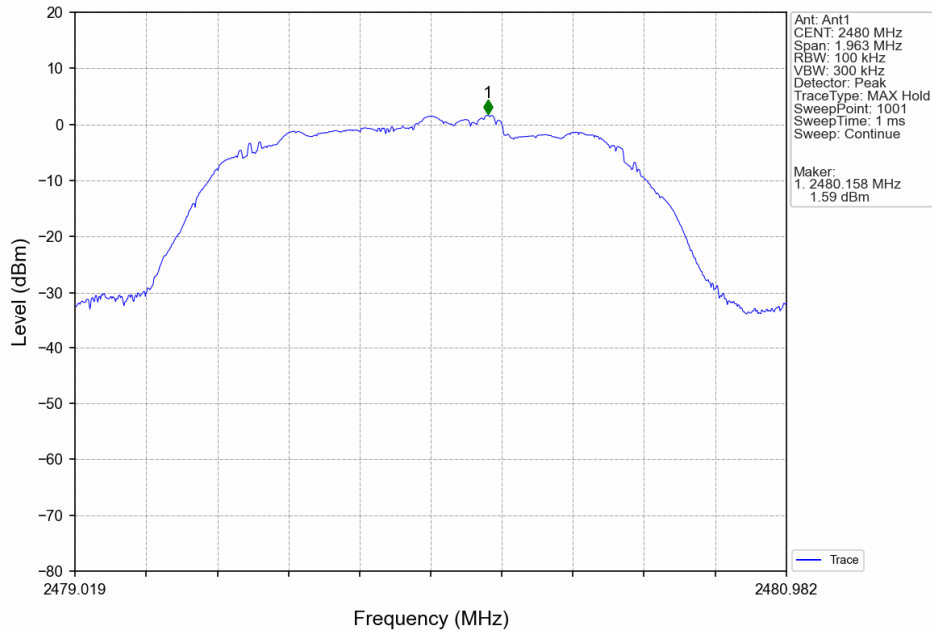
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



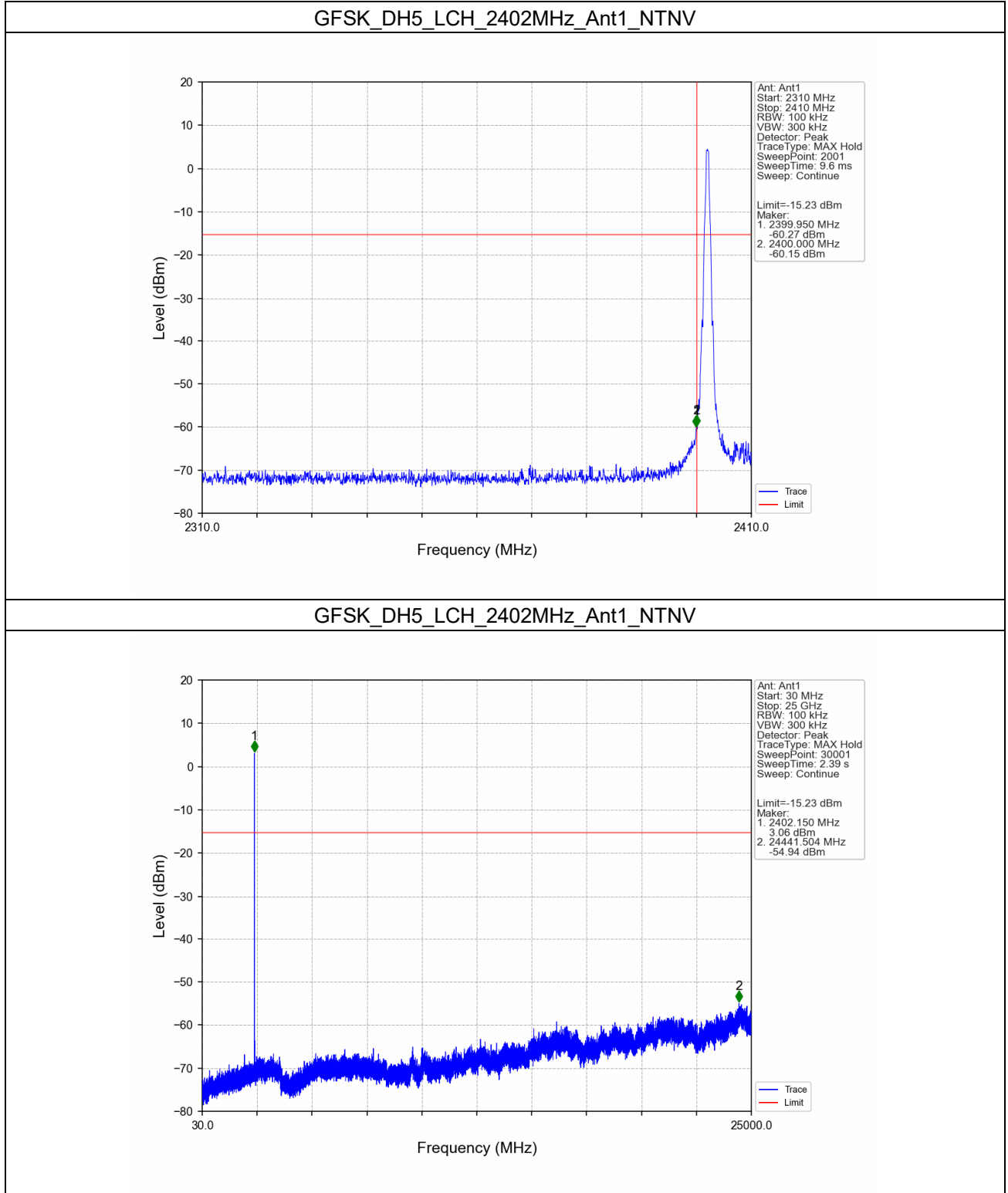
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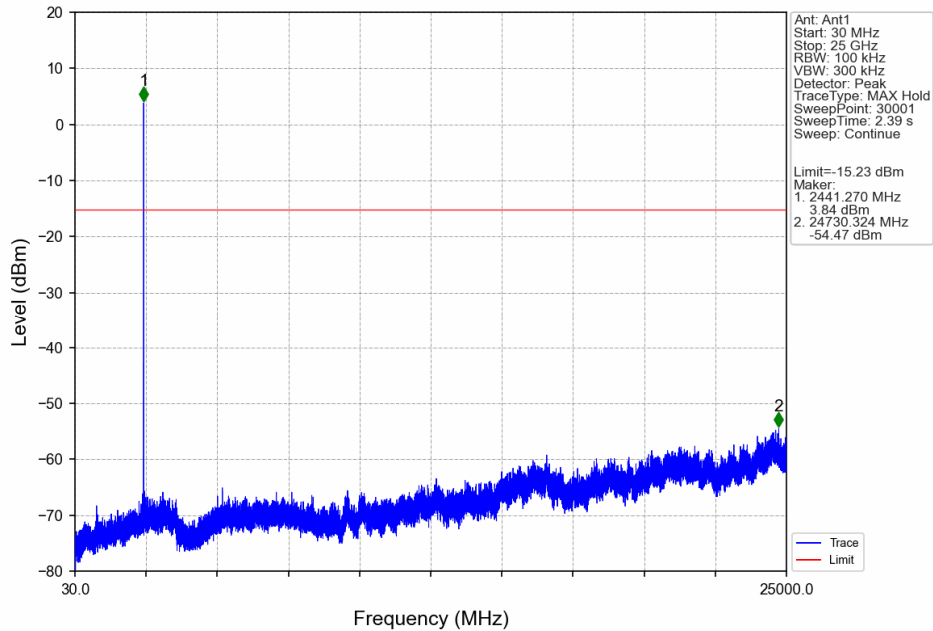
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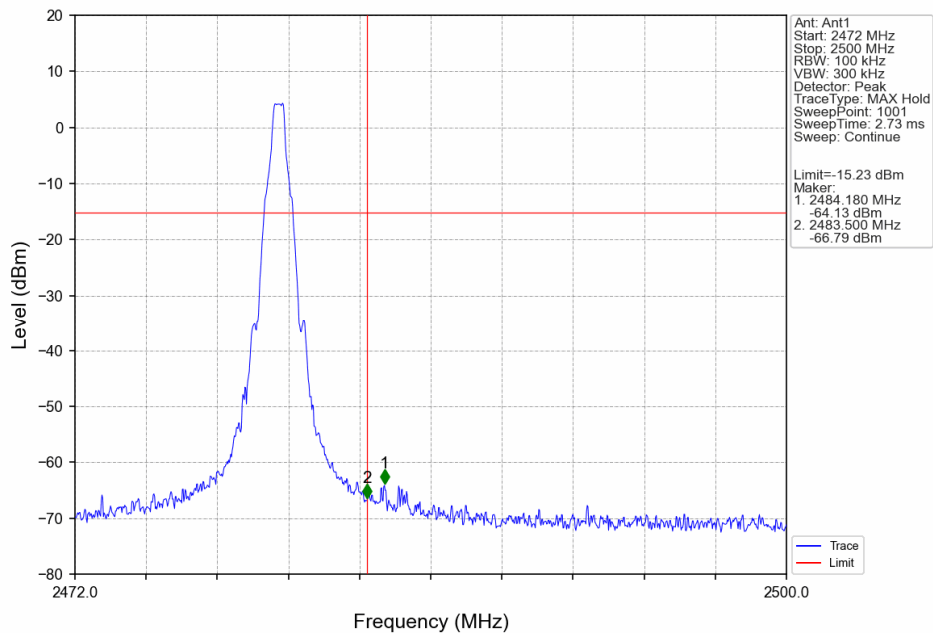
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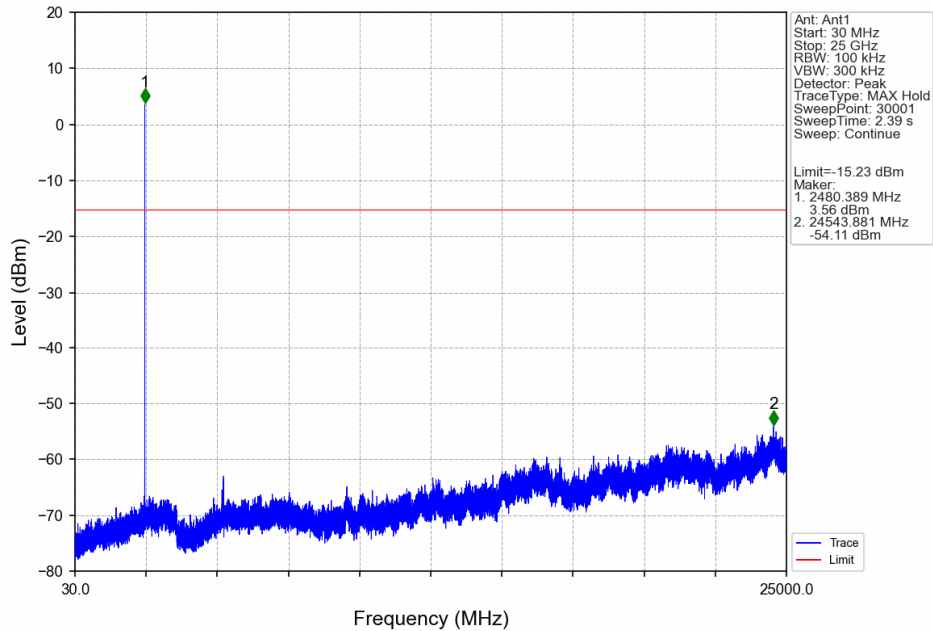
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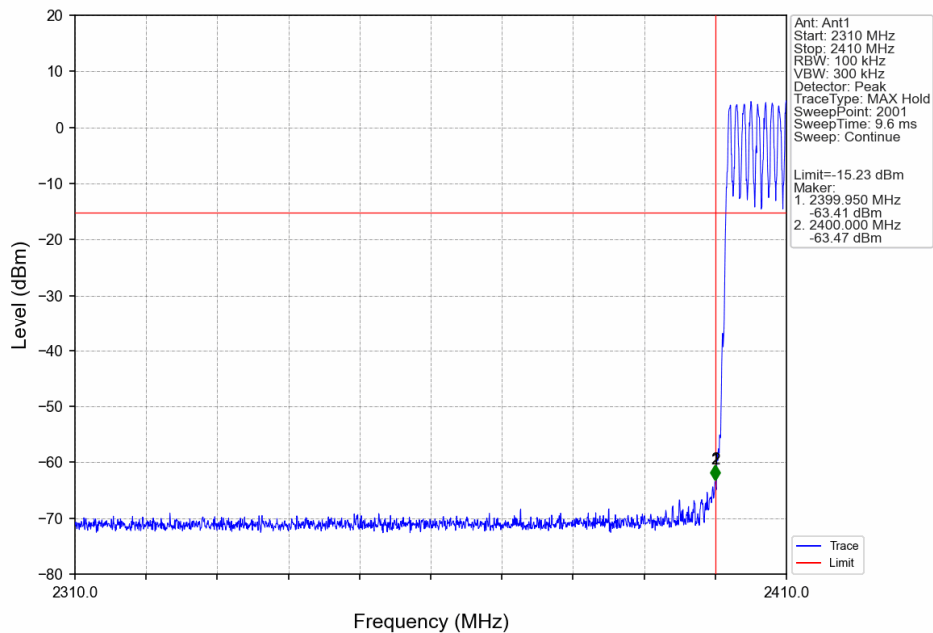
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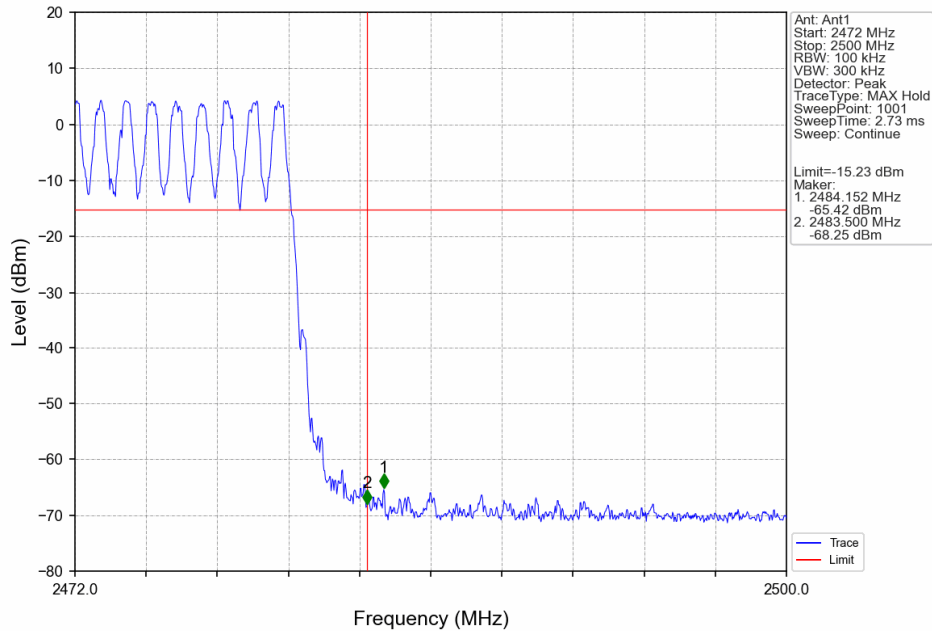


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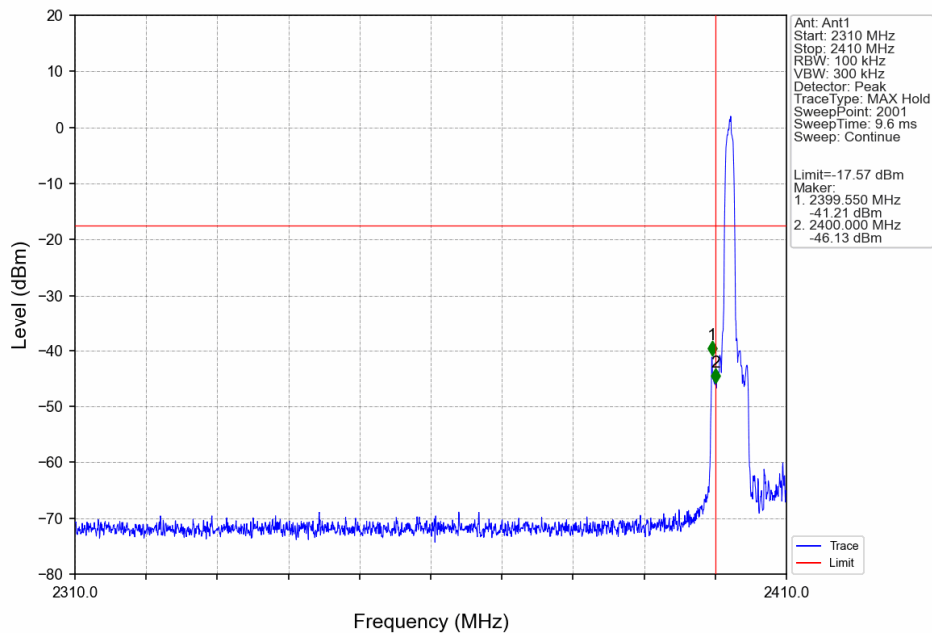




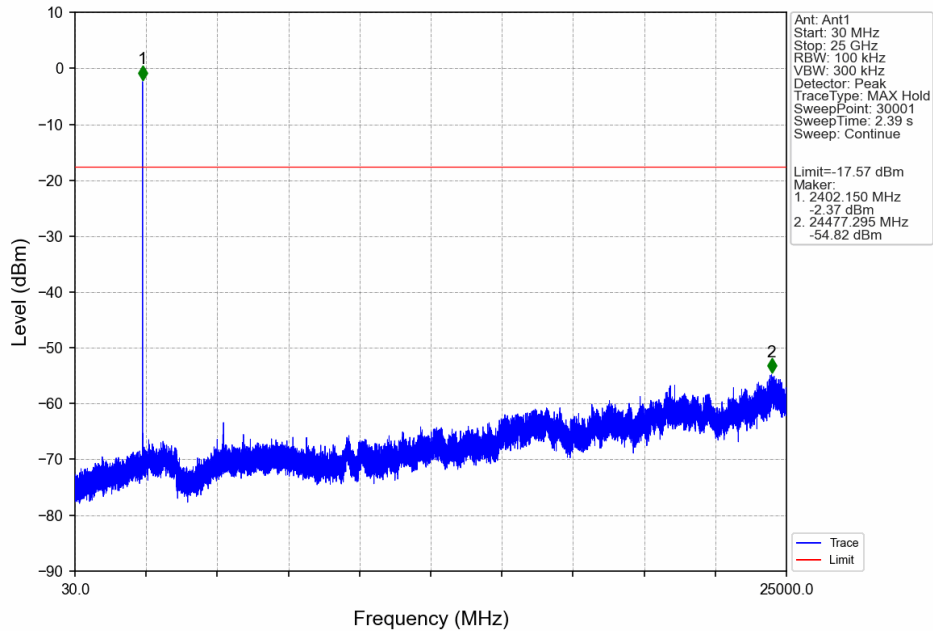
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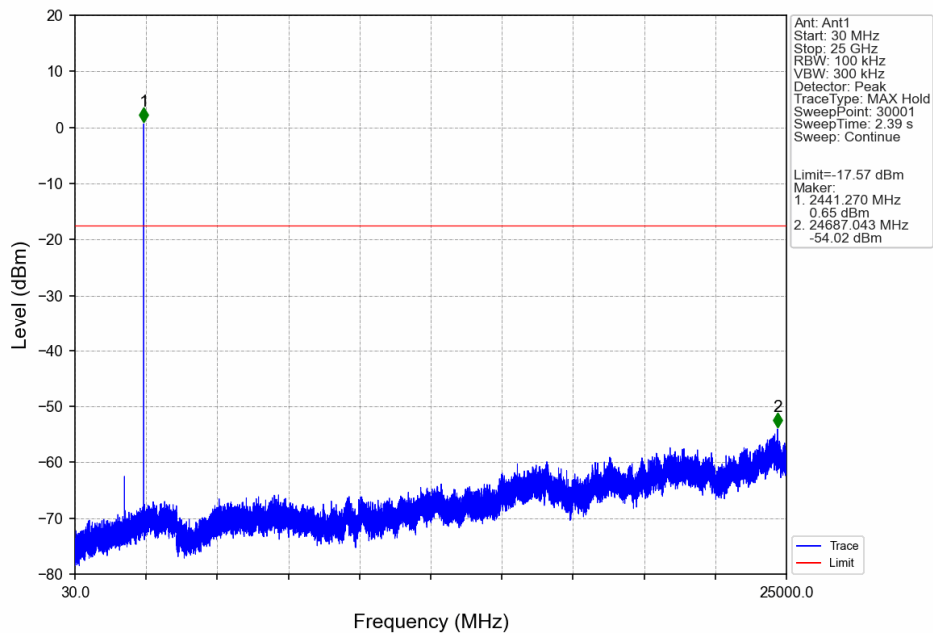
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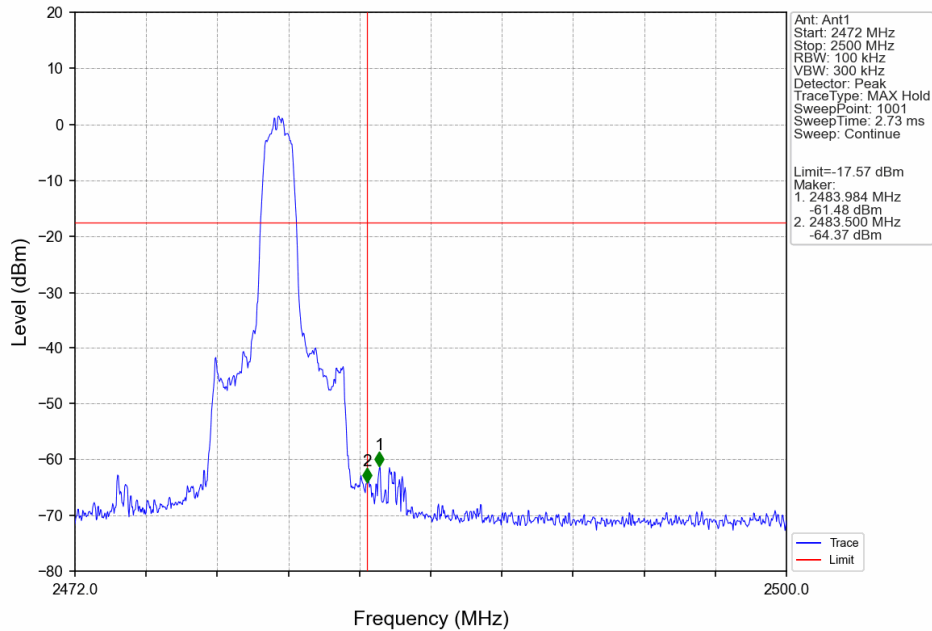
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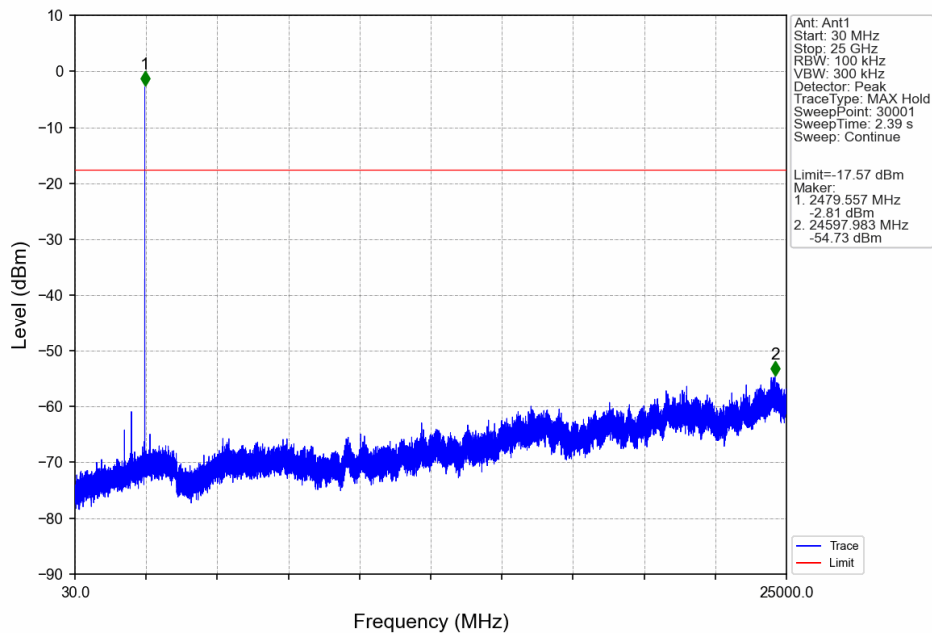
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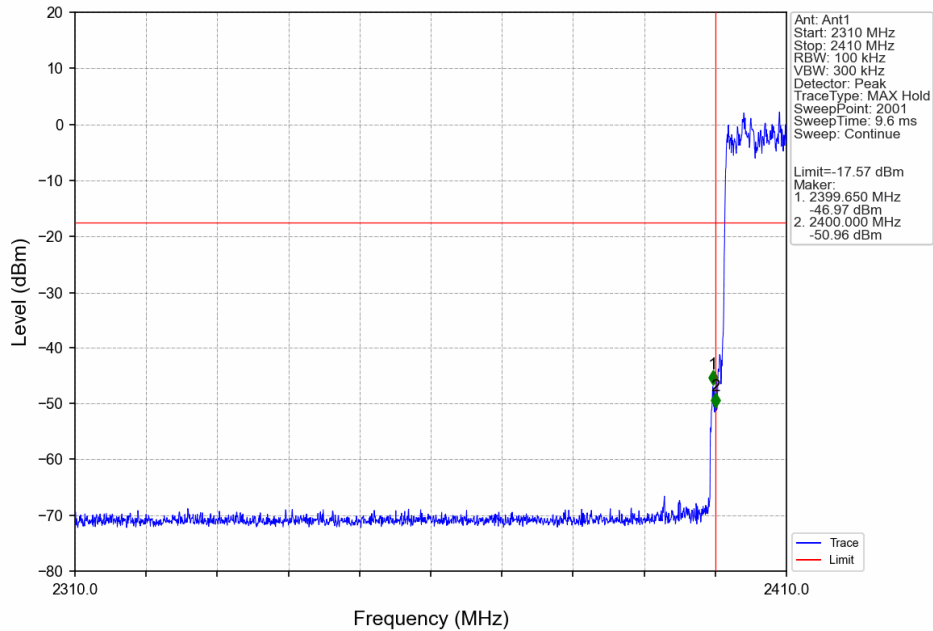
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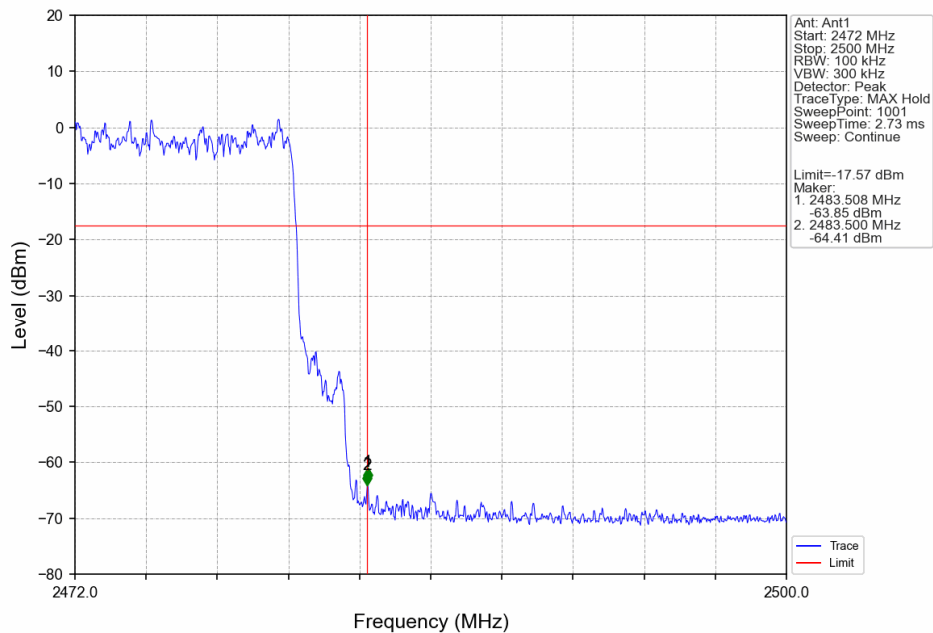
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Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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

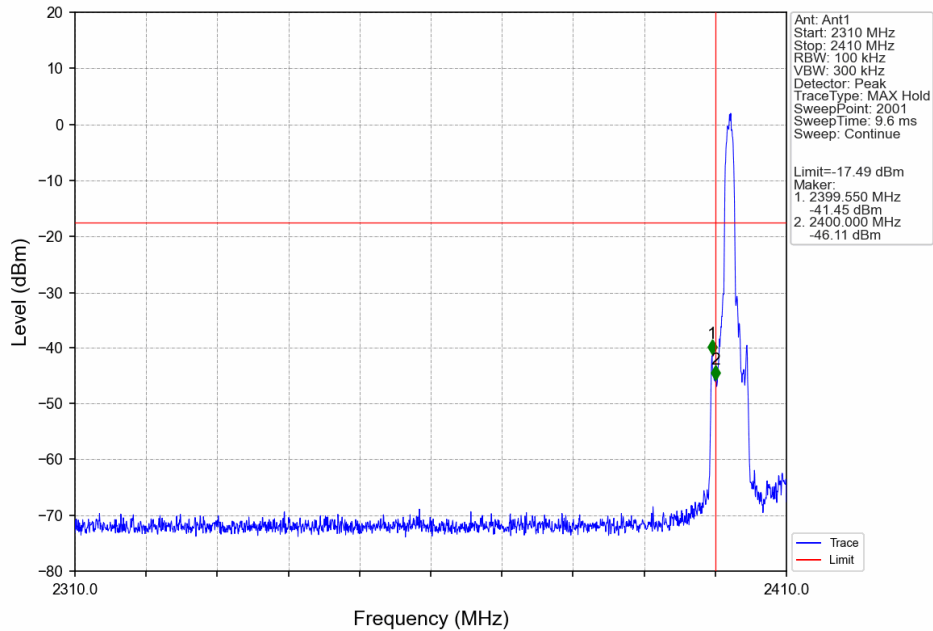


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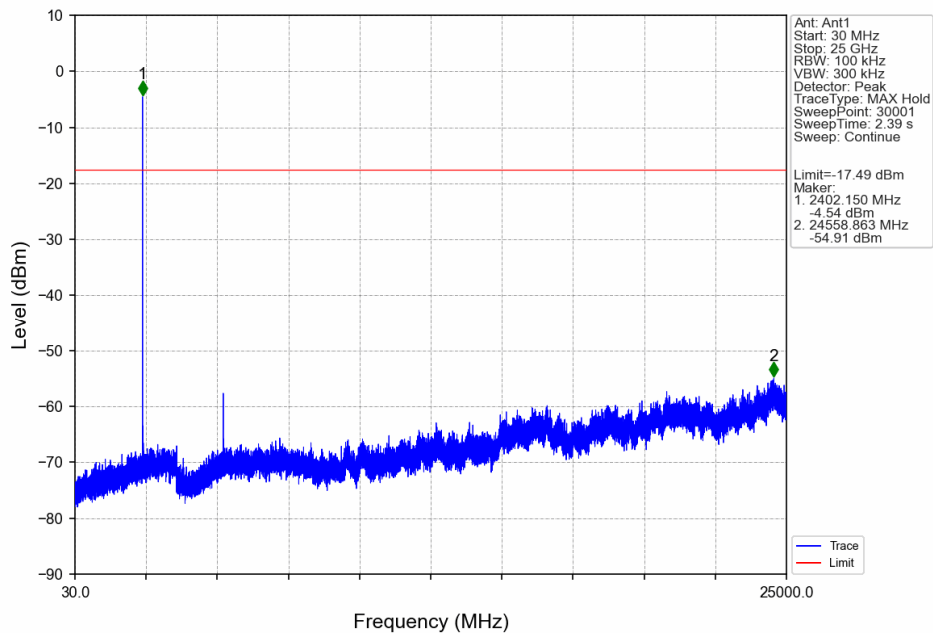
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

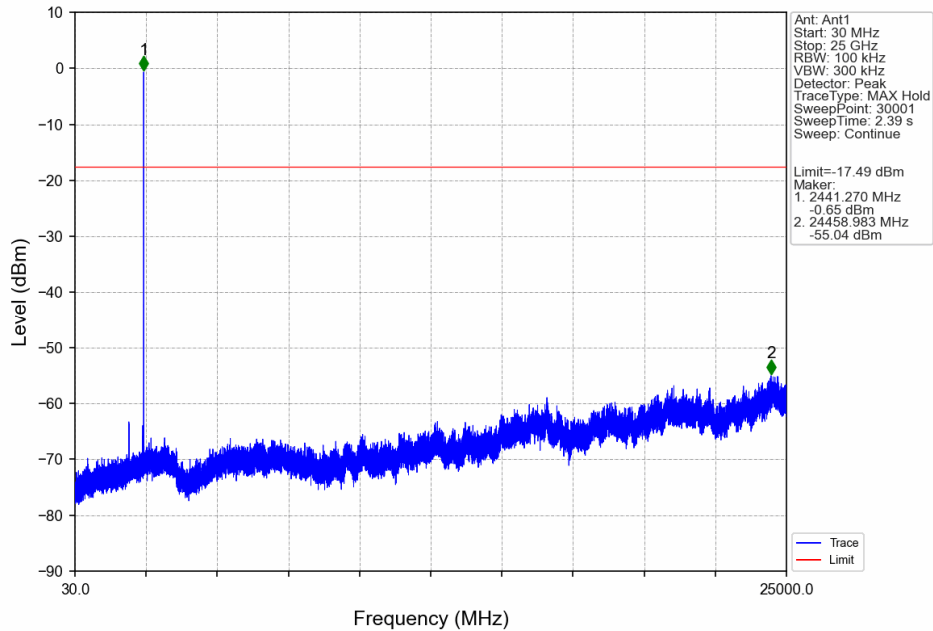


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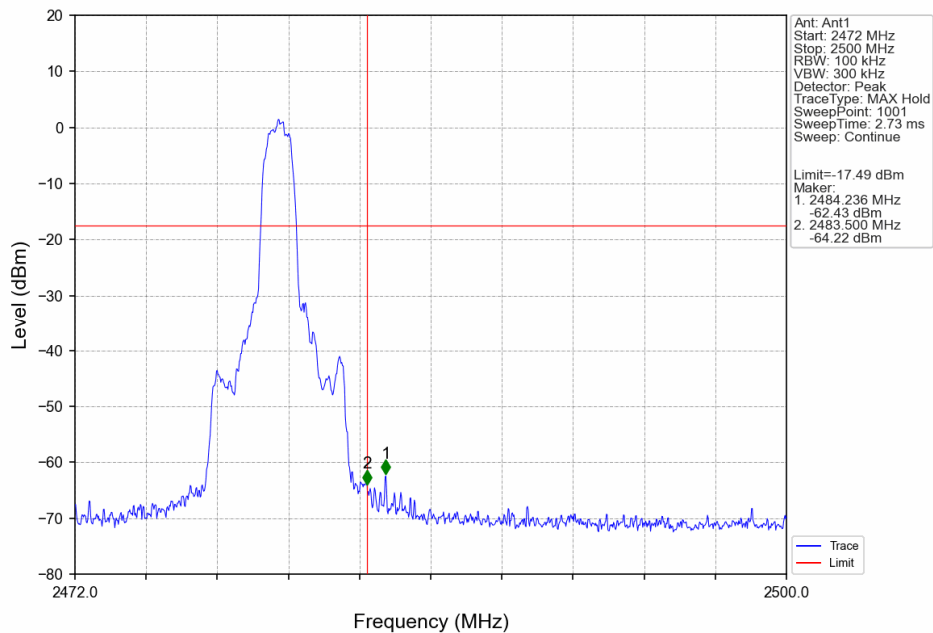




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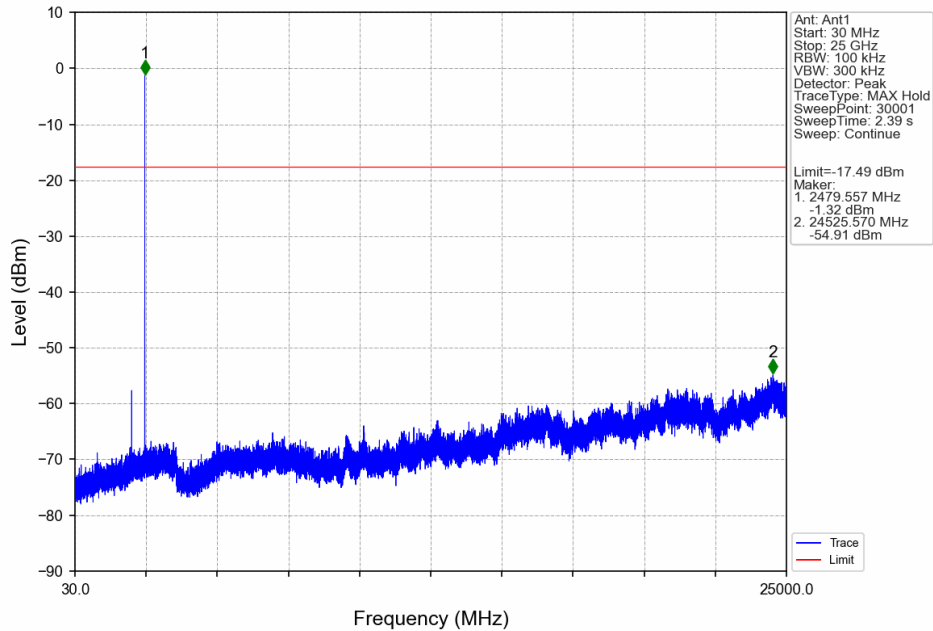
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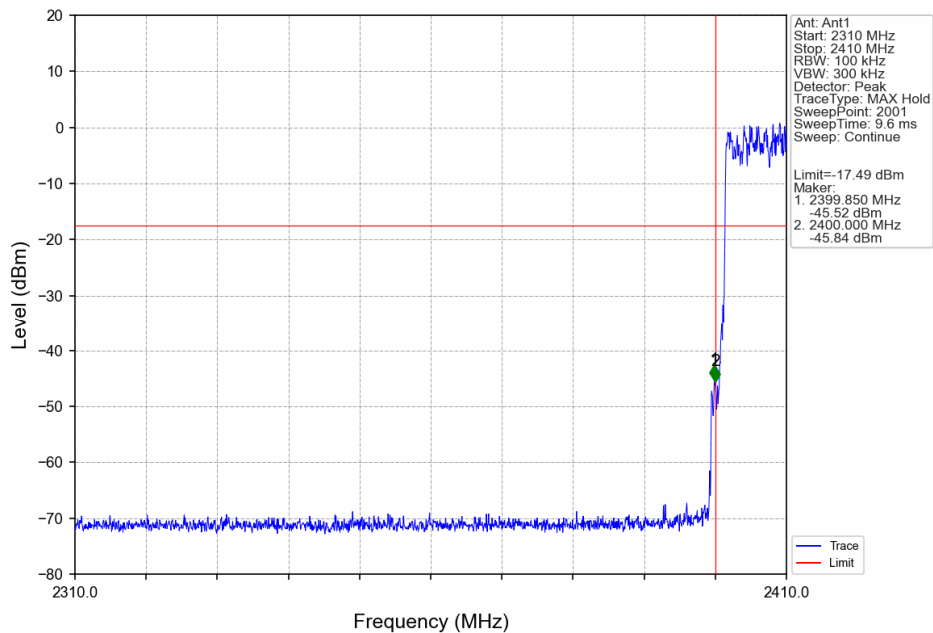
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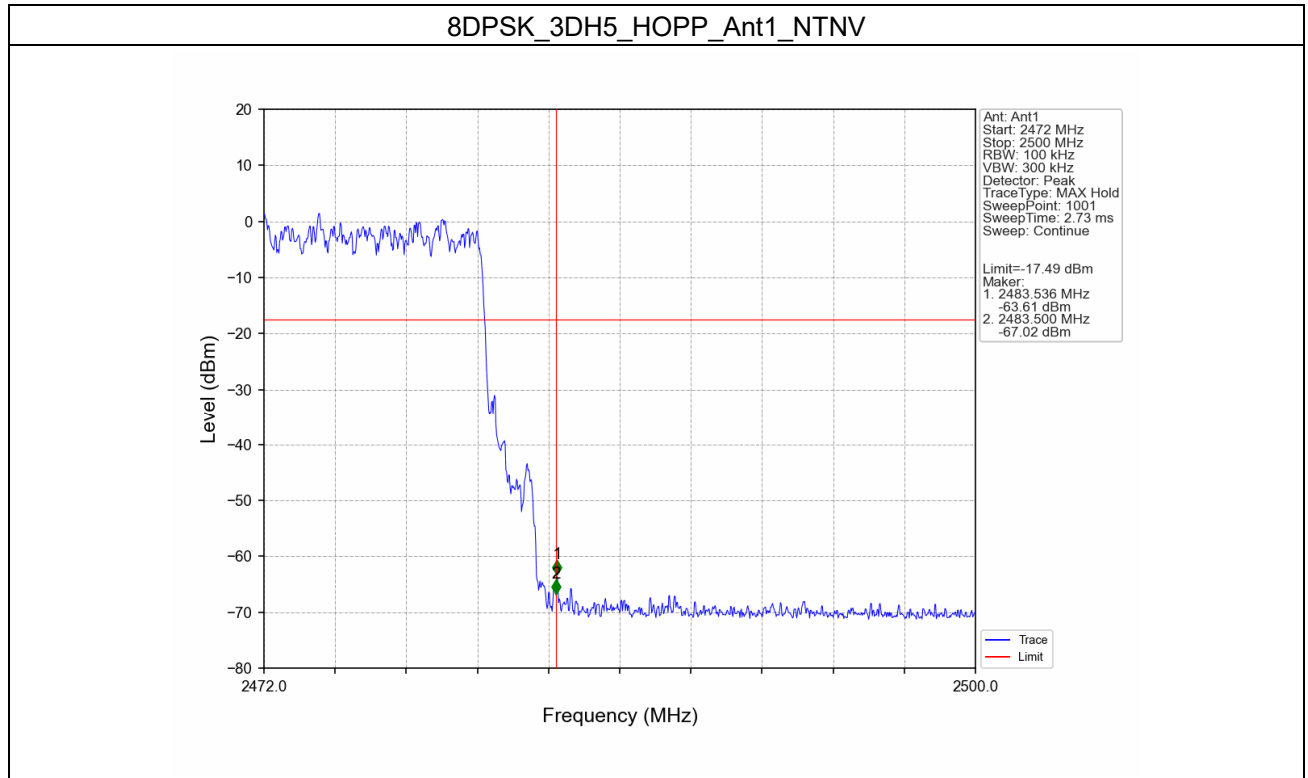
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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





- End of the Report -

