

## 10 Appendix

### 1. Bandwidth

#### 1.1 Test Result

##### 1.1.1 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.051	/	Pass
		2441	DH5	1	1.067	/	Pass
		2480	DH5	1	1.055	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.277	/	Pass
		2441	2DH5	1	1.282	/	Pass
		2480	2DH5	1	1.261	/	Pass
8DPSK	SISO	2402	3DH5	1	1.251	/	Pass
		2441	3DH5	1	1.237	/	Pass
		2480	3DH5	1	1.252	/	Pass



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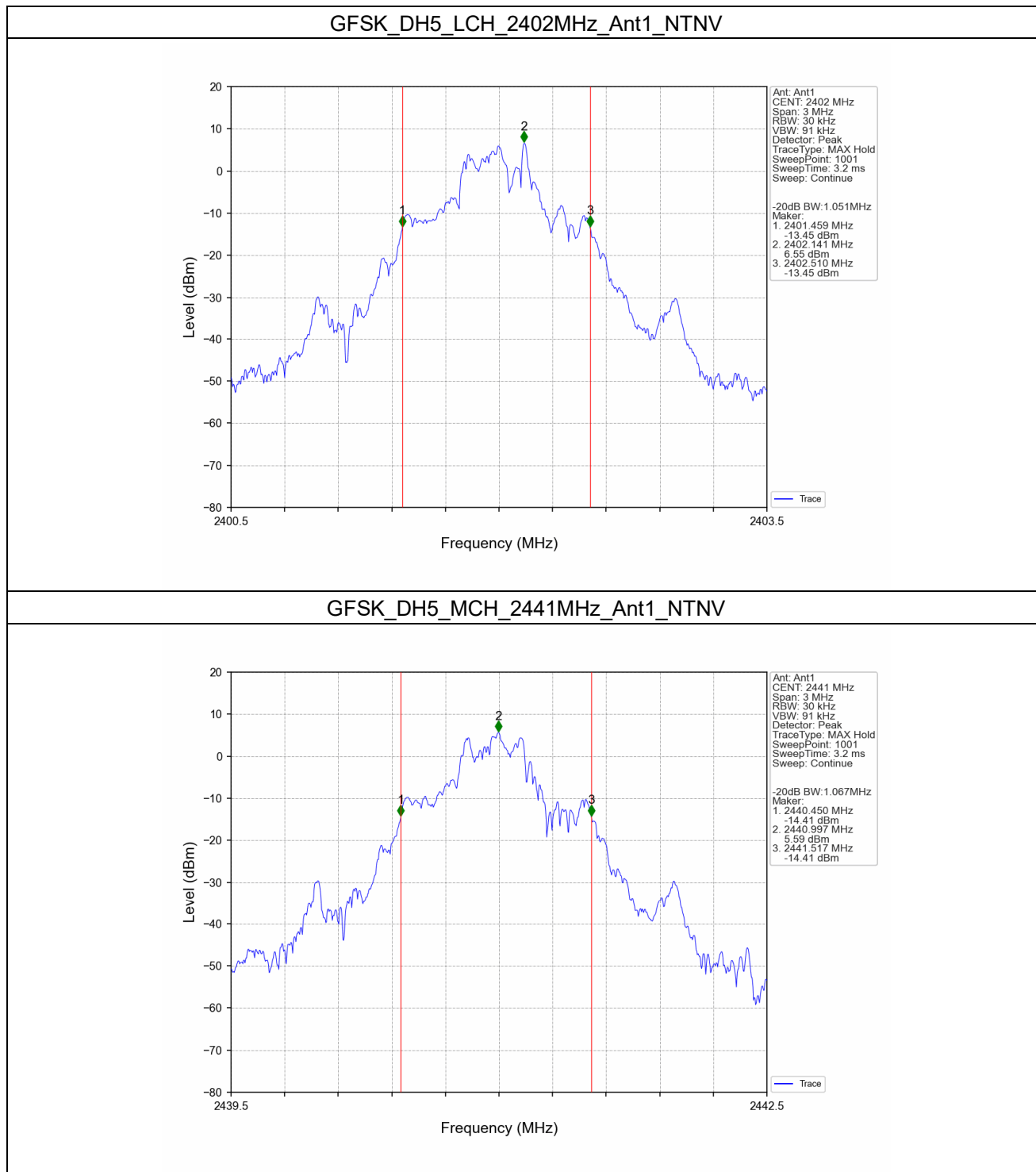
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Guangzhou Branch (CMAA, CNAS, EEC Laboratory)

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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### 1.2 Test Graph

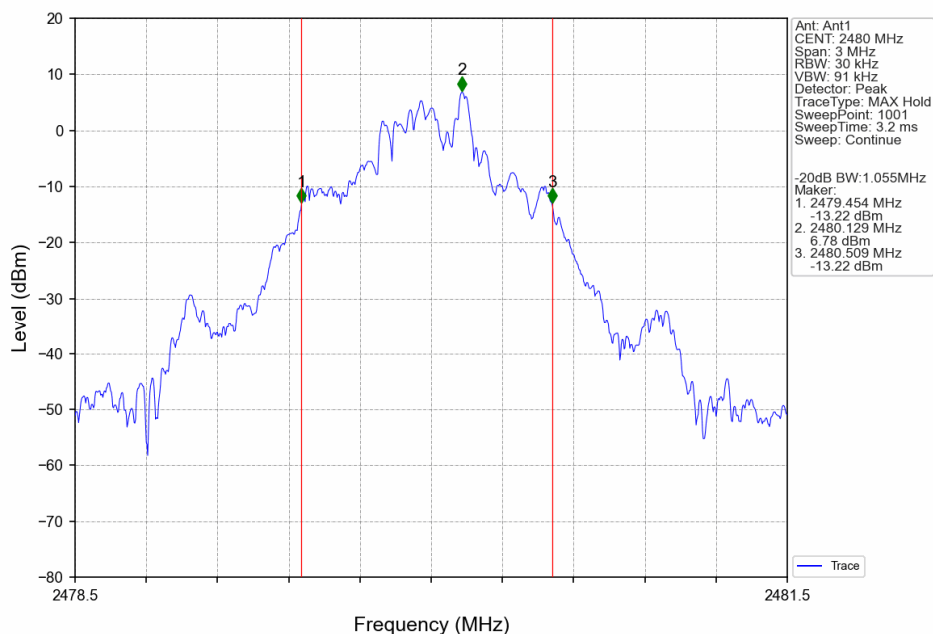
#### 1.2.1 20dB BW



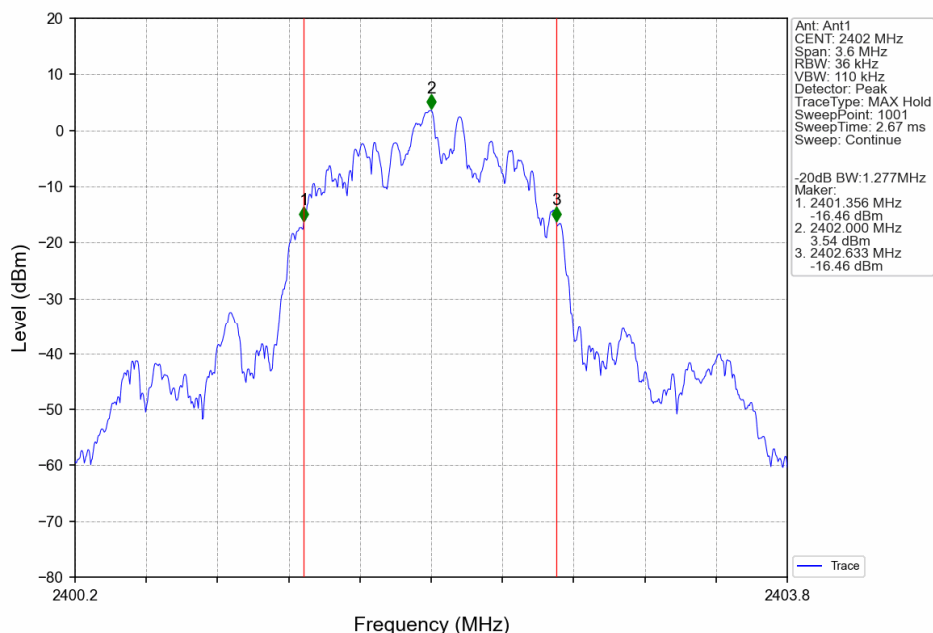
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### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



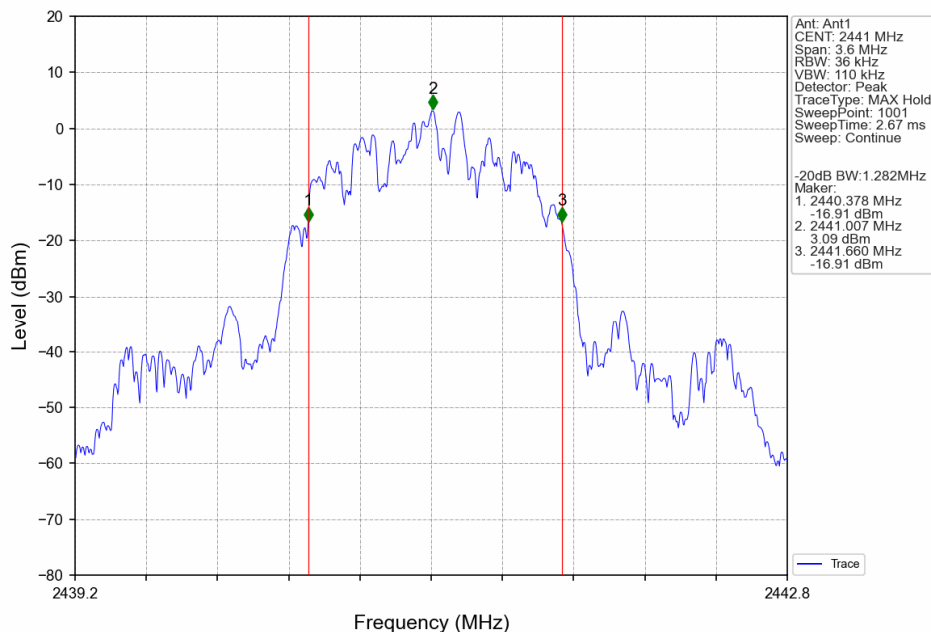
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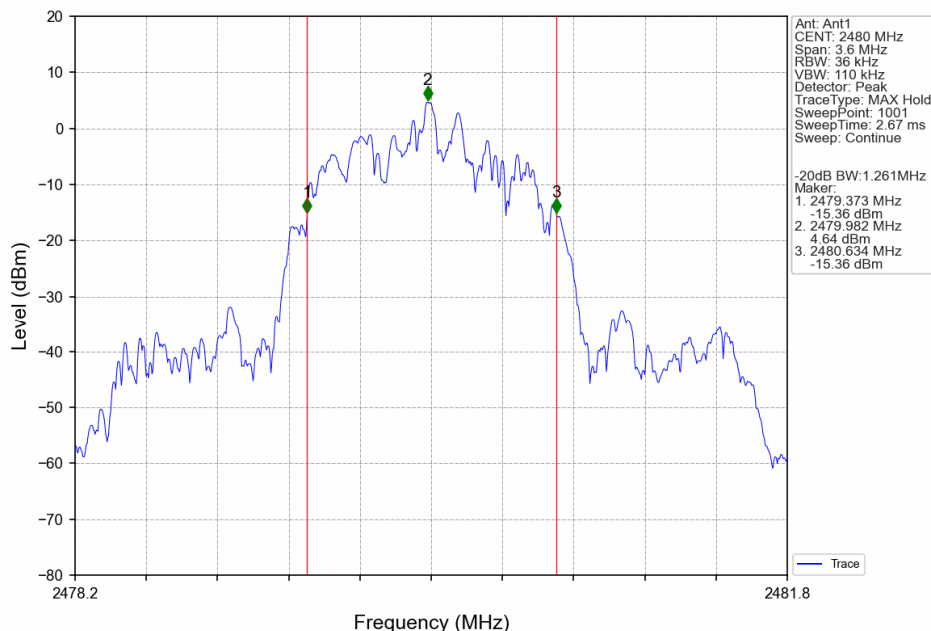
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### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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

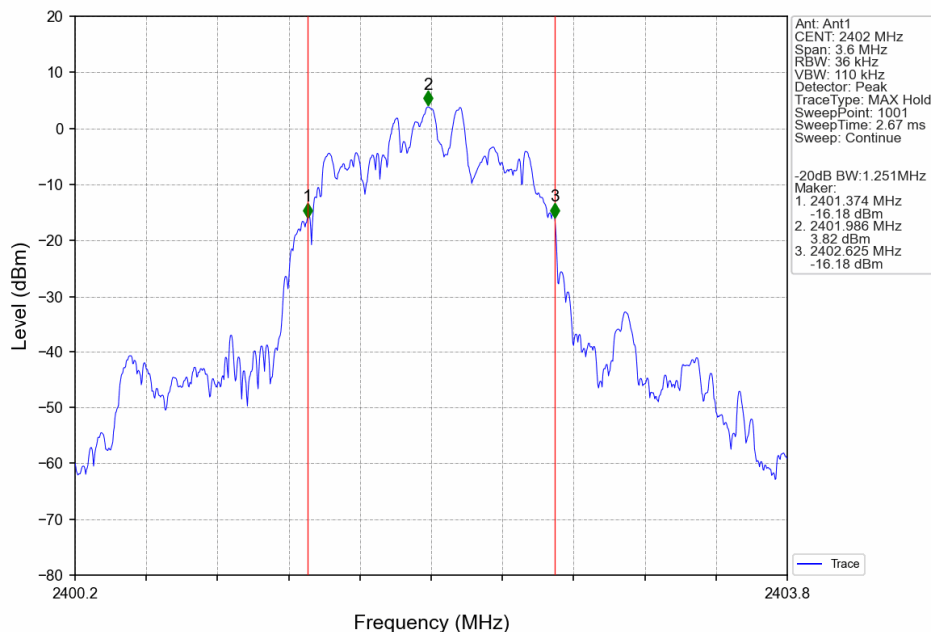


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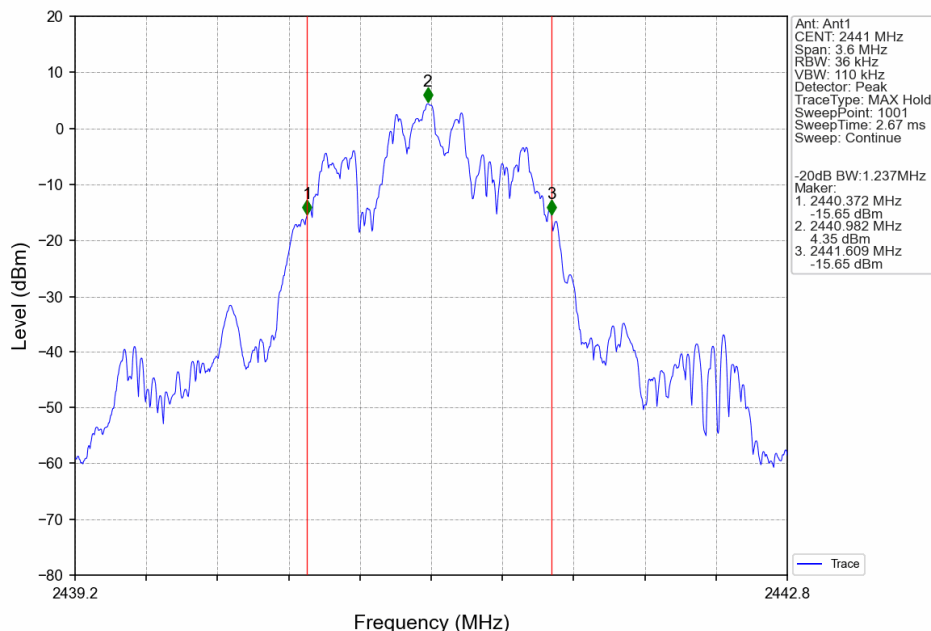
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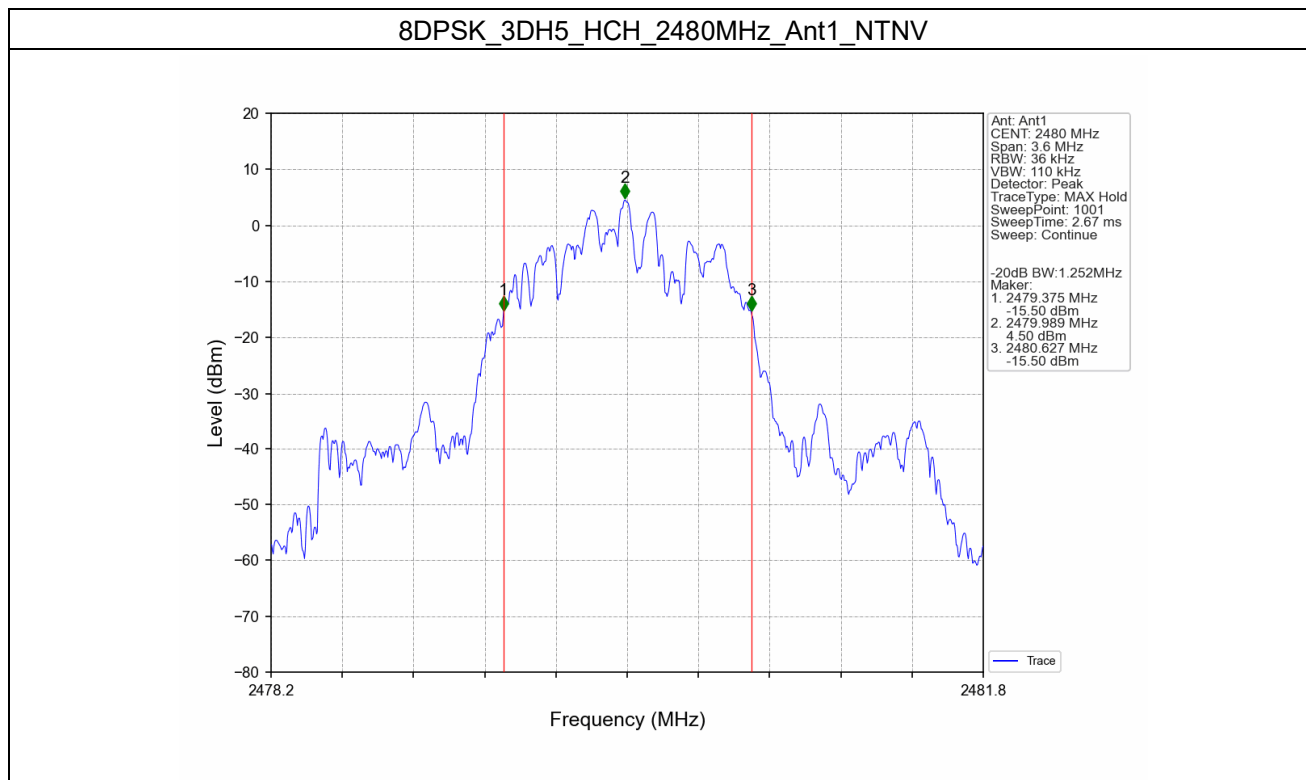


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





## 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	7.90	<=20.97	Pass
		2441	DH5	8.42	<=20.97	Pass
		2480	DH5	8.65	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	7.16	<=20.97	Pass
		2441	2DH5	7.67	<=20.97	Pass
		2480	2DH5	7.90	<=20.97	Pass
8DPSK	SISO	2402	3DH5	7.38	<=20.97	Pass
		2441	3DH5	7.87	<=20.97	Pass
		2480	3DH5	8.06	<=20.97	Pass



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### 3. Carrier Frequency Separation

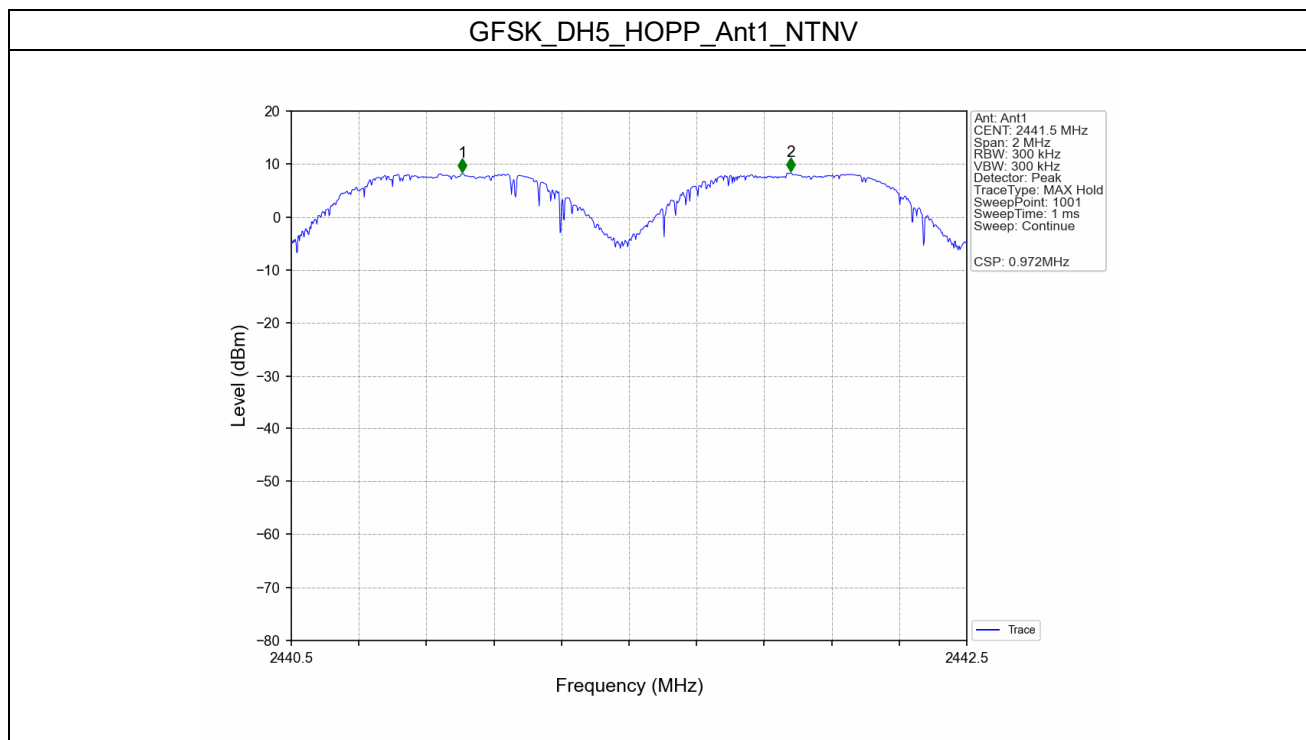
#### 3.1 Test Result

##### 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	0.972	1.067	$\geq 0.711$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.282	$\geq 0.855$	Pass
8DPSK	SISO	HOPP	3DH5	1.003	1.252	$\geq 0.835$	Pass

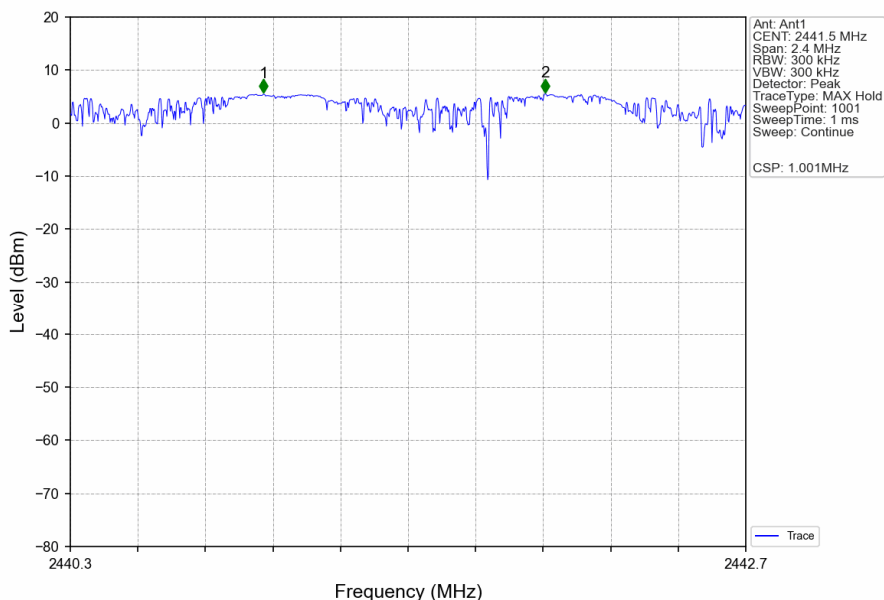
### 3.2 Test Graph

#### 3.2.1 Ant1

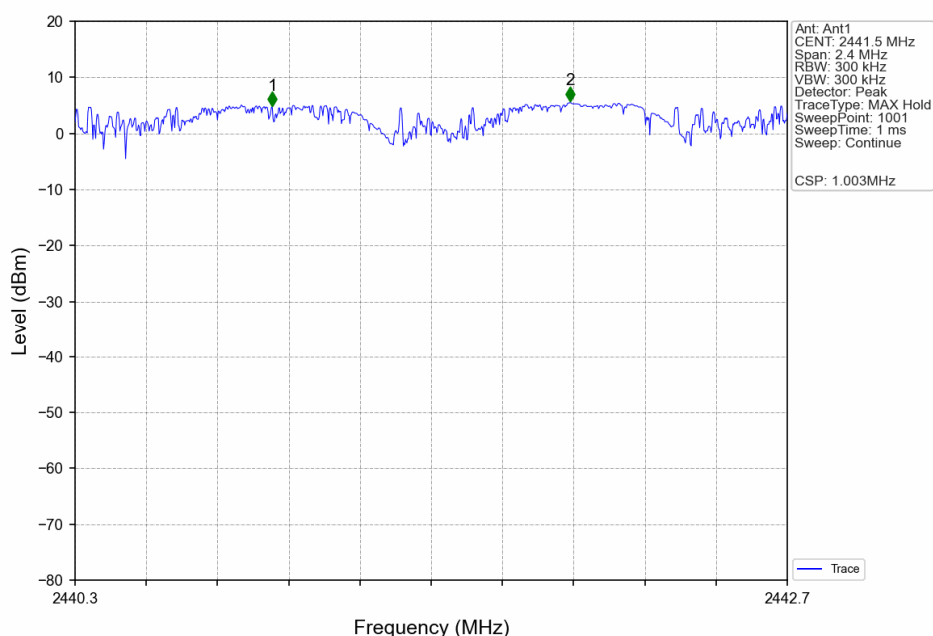




### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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



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### 4. Number of Hopping Frequencies

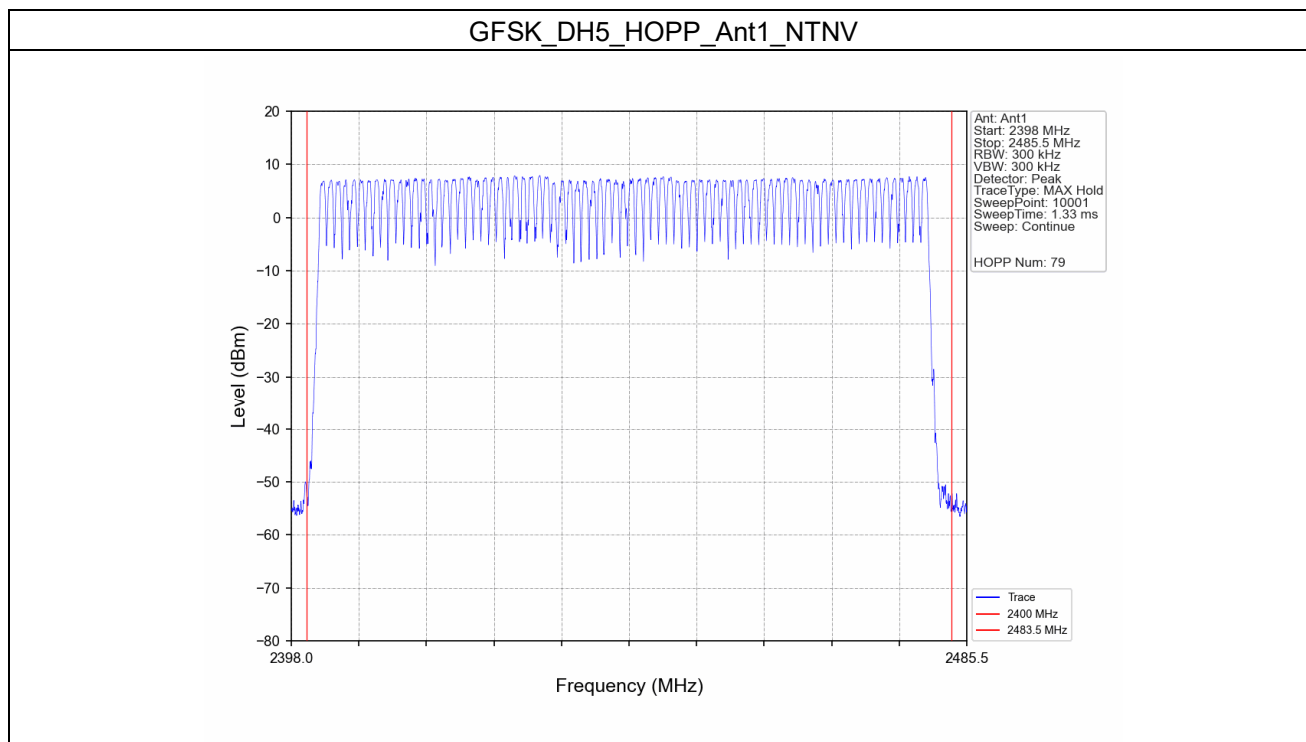
#### 4.1 Test Result

##### 4.1.1 HopNum

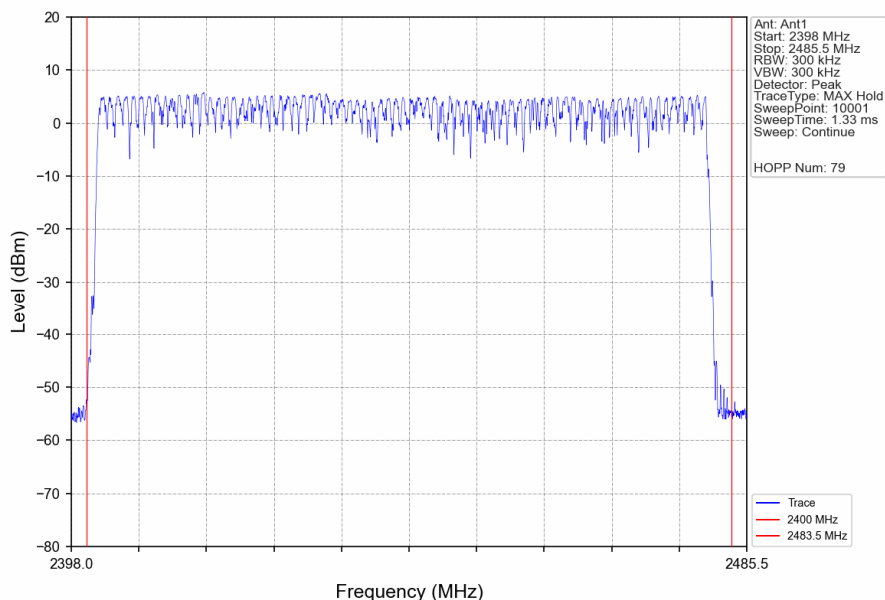
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	$\geq 15$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	$\geq 15$	Pass
8DPSK	SISO	HOPP	3DH5	79	$\geq 15$	Pass

#### 4.2 Test Graph

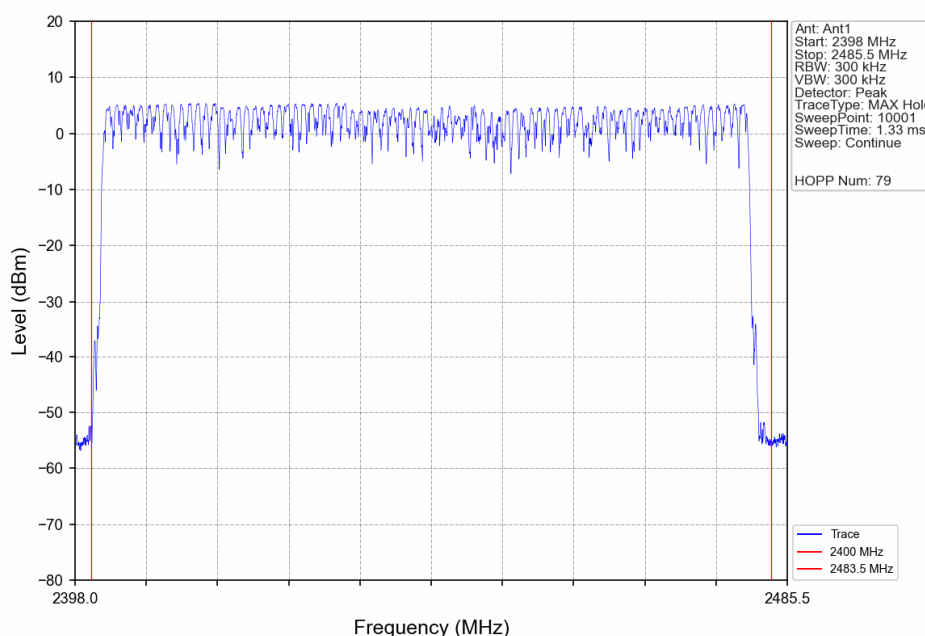
##### 4.2.1 HopNum



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



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



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

#### 5.1 Test Result

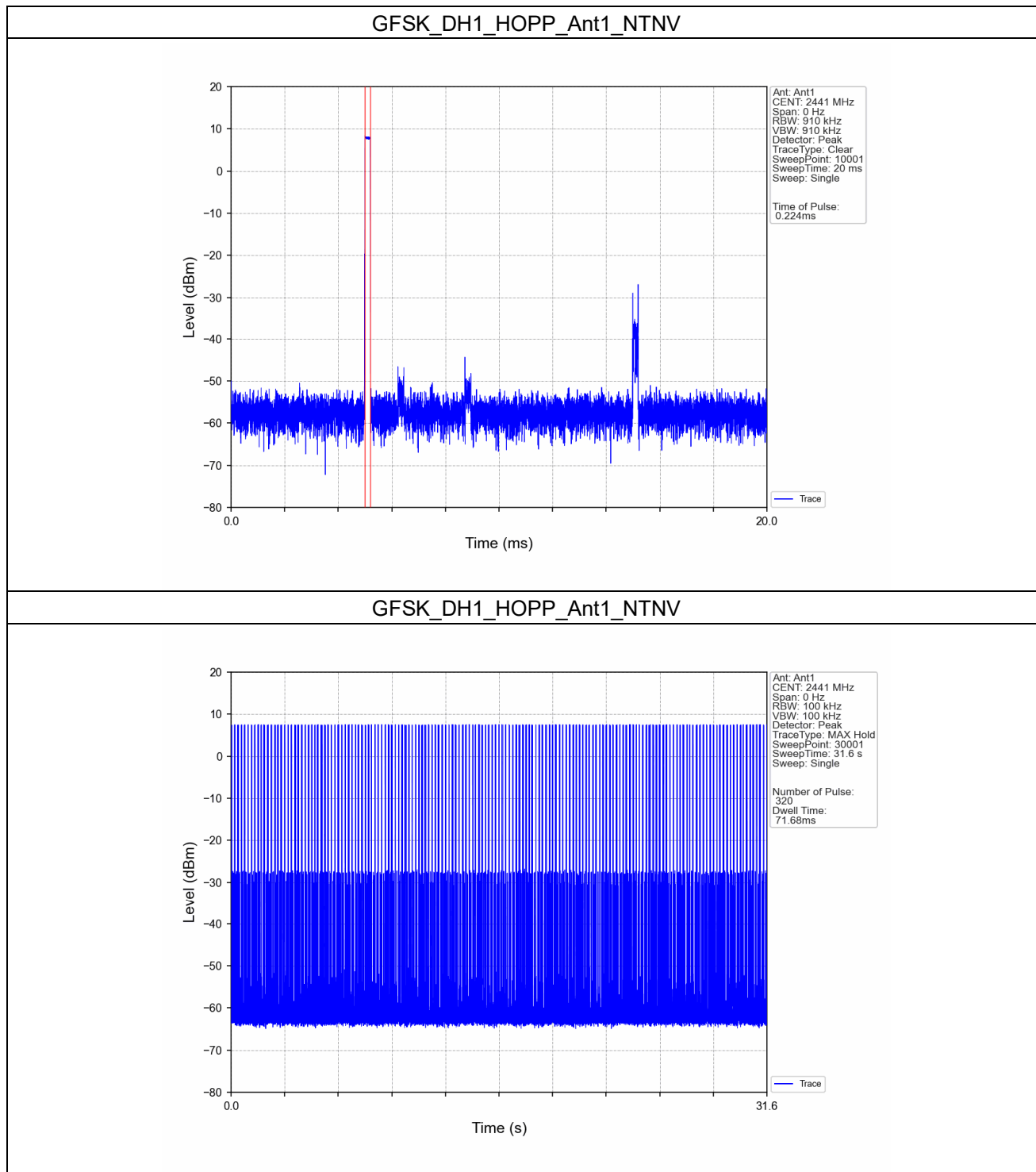
##### 5.1.1 Ant1

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	0.224	31.600	320	71.680	<=400	Pass
			DH3	0.290	31.600	153	44.370	<=400	Pass
			DH5	0.322	31.600	101	32.522	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.192	31.600	320	61.440	<=400	Pass
			2DH3	0.214	31.600	162	34.668	<=400	Pass
			2DH5	0.268	31.600	112	30.016	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.214	31.600	319	68.266	<=400	Pass
			3DH3	0.224	31.600	163	36.512	<=400	Pass
			3DH5	0.234	31.600	106	24.804	<=400	Pass



### 5.2 Test Graph

#### 5.2.1 Ant1



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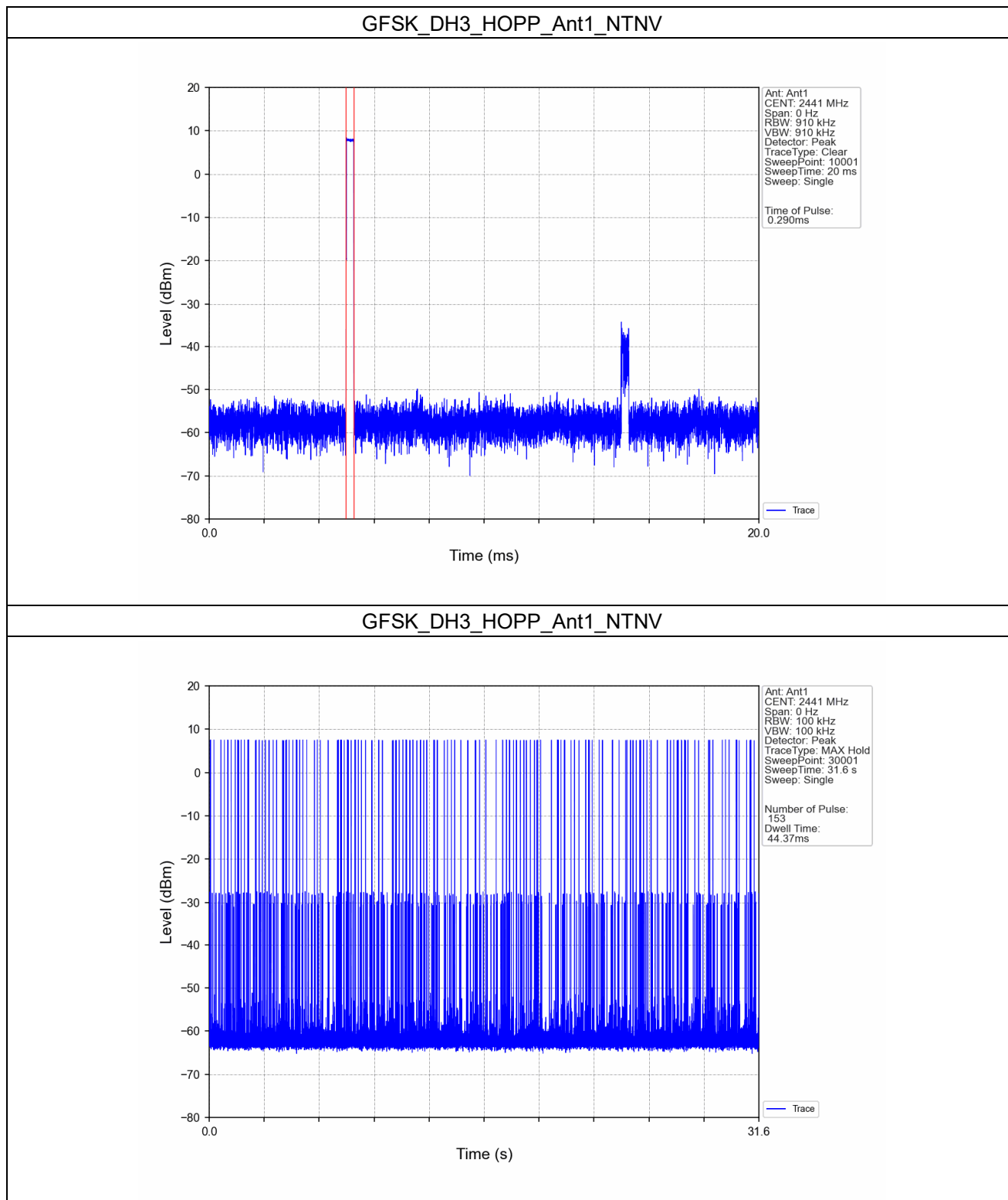
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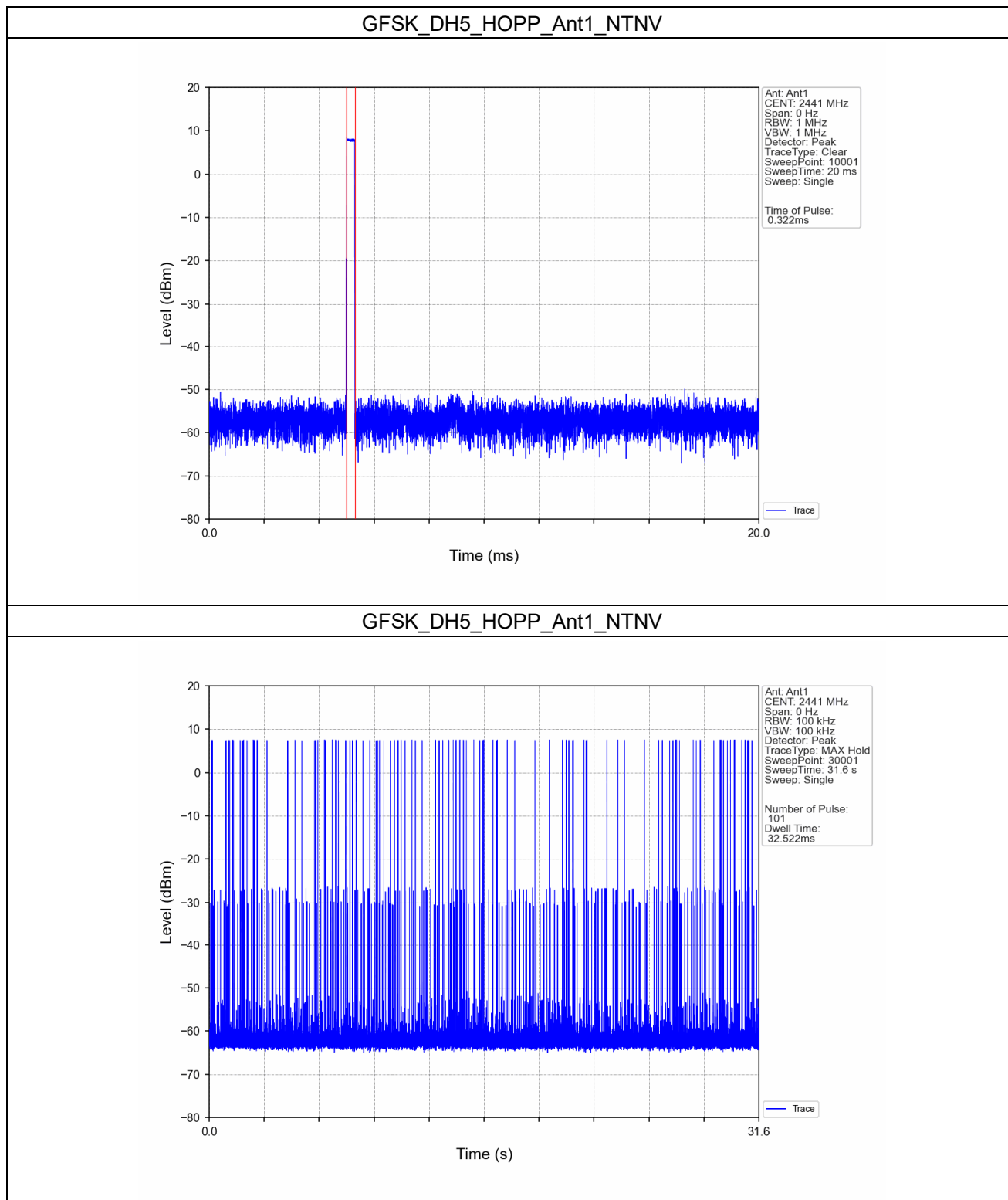
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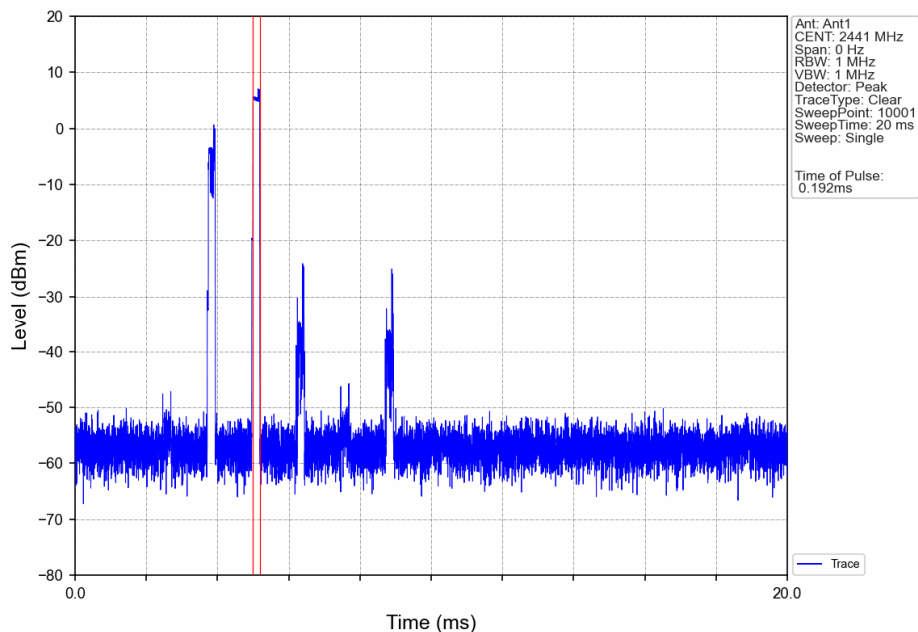
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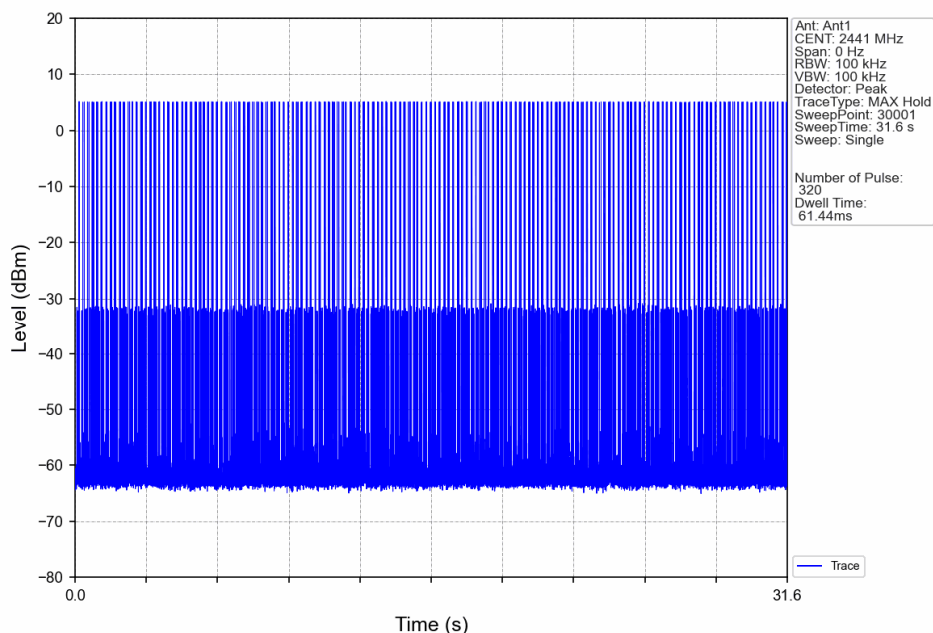




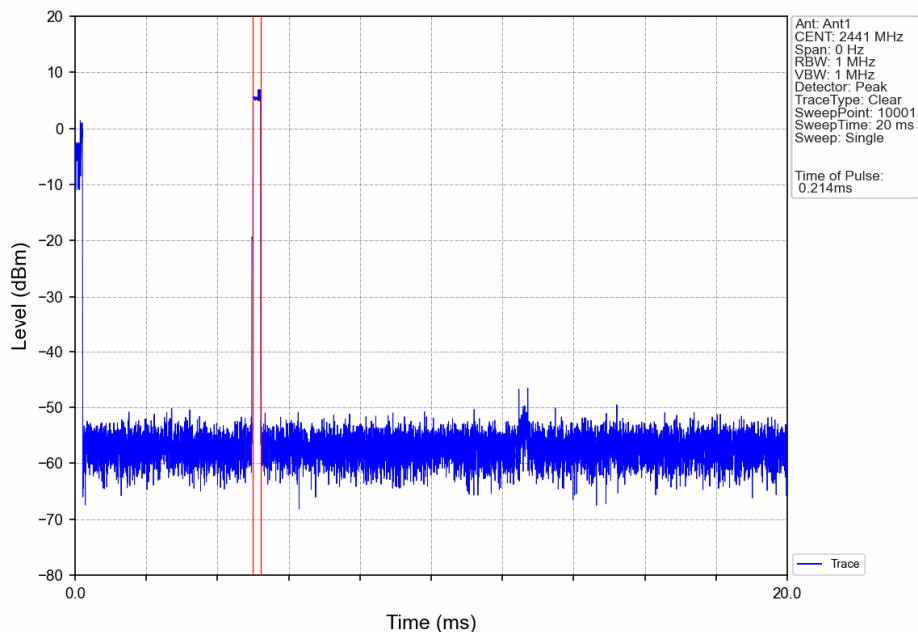
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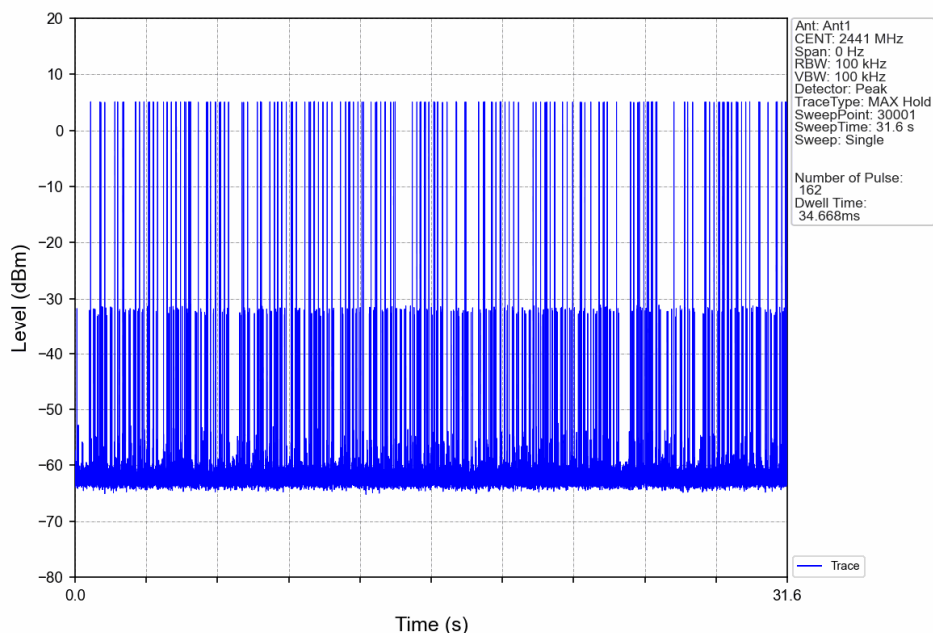
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### Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV

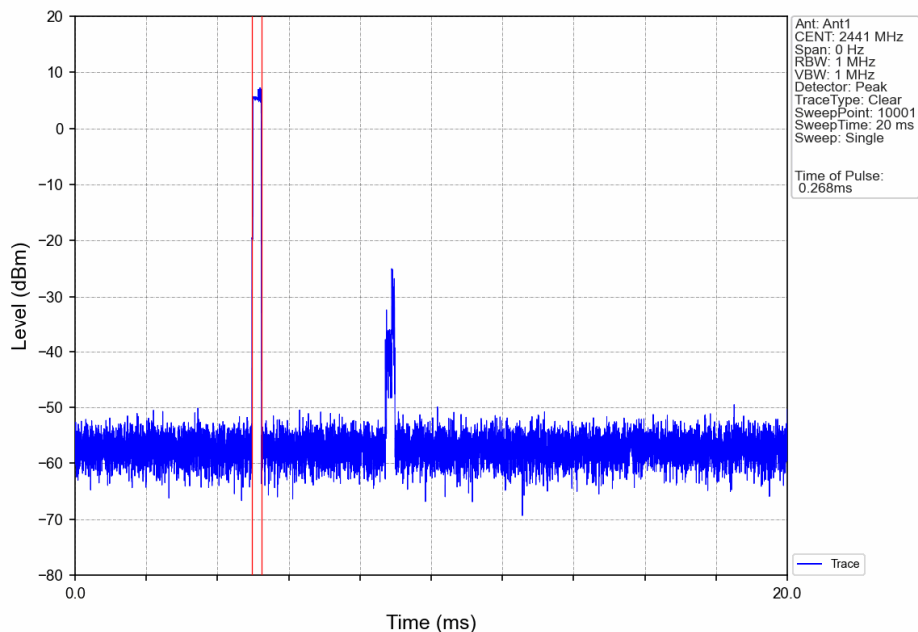


### Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV

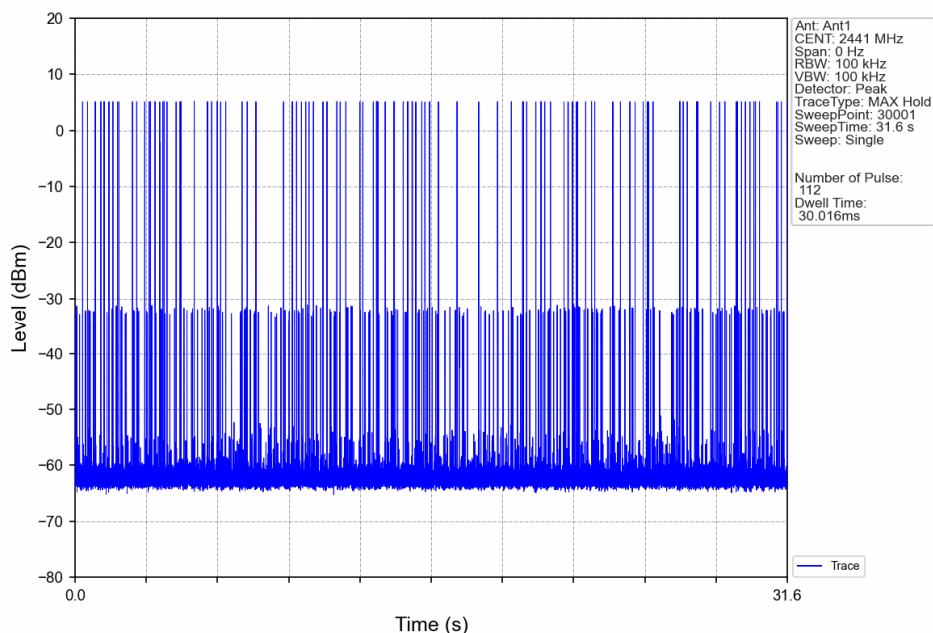




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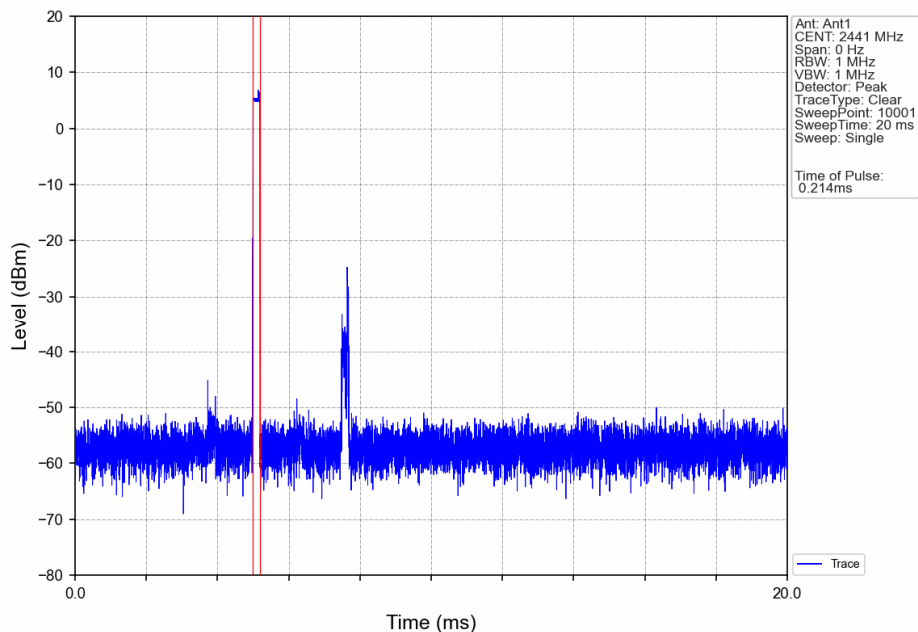


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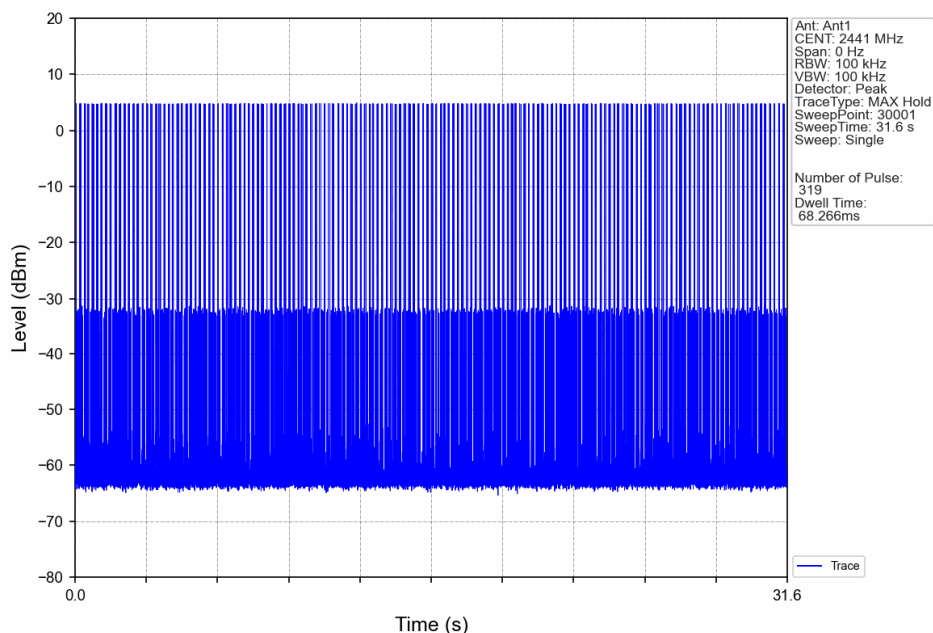




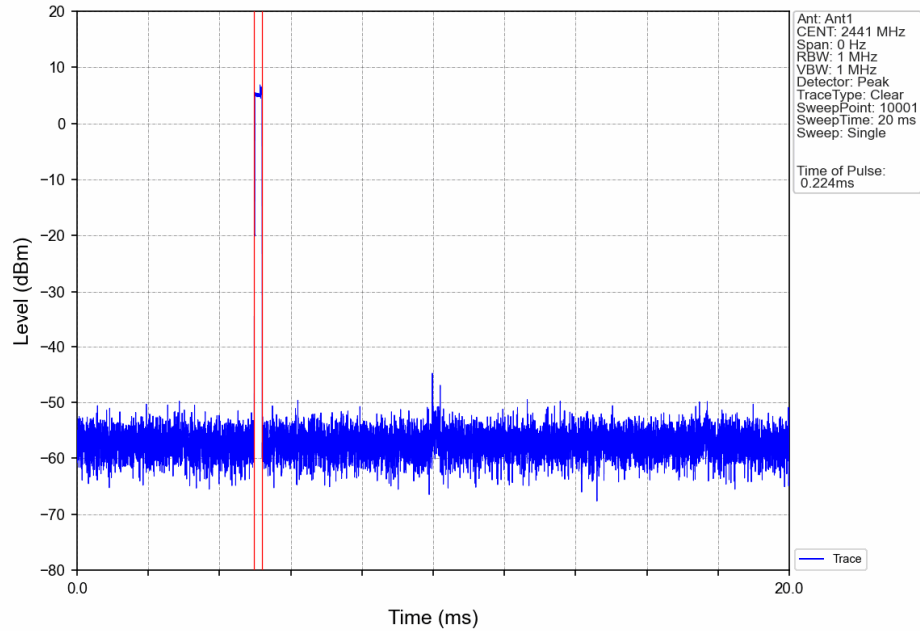
### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



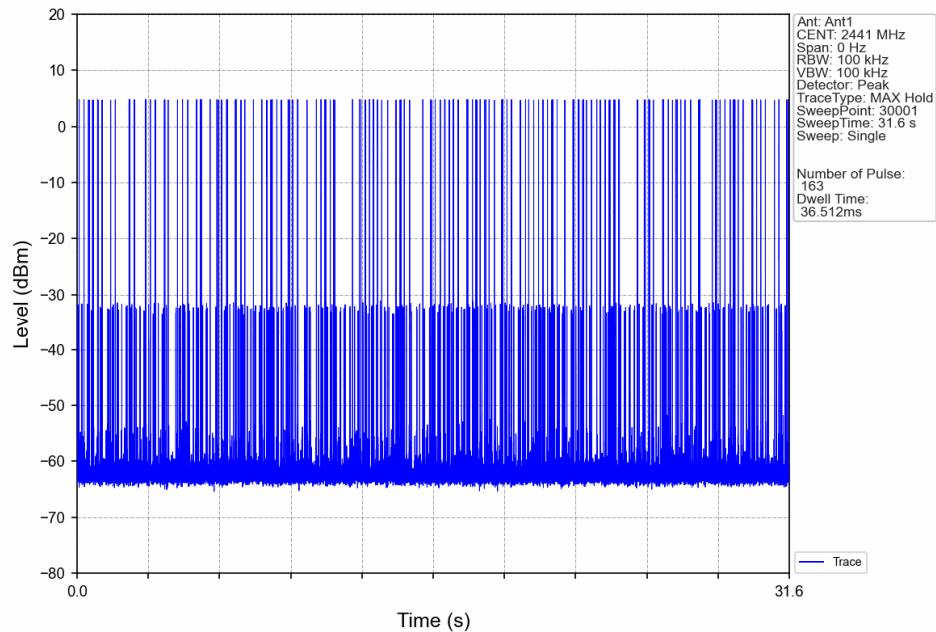
### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



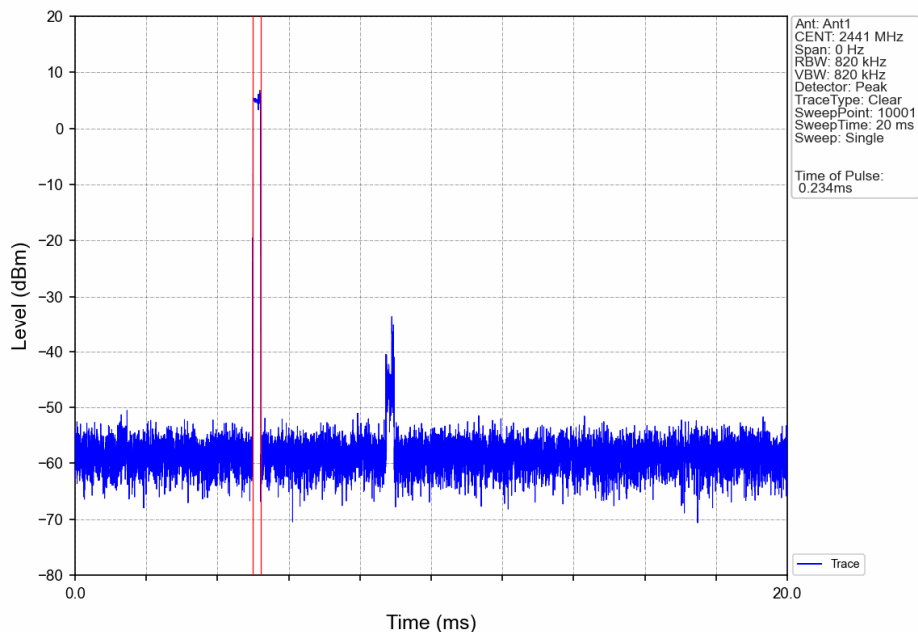
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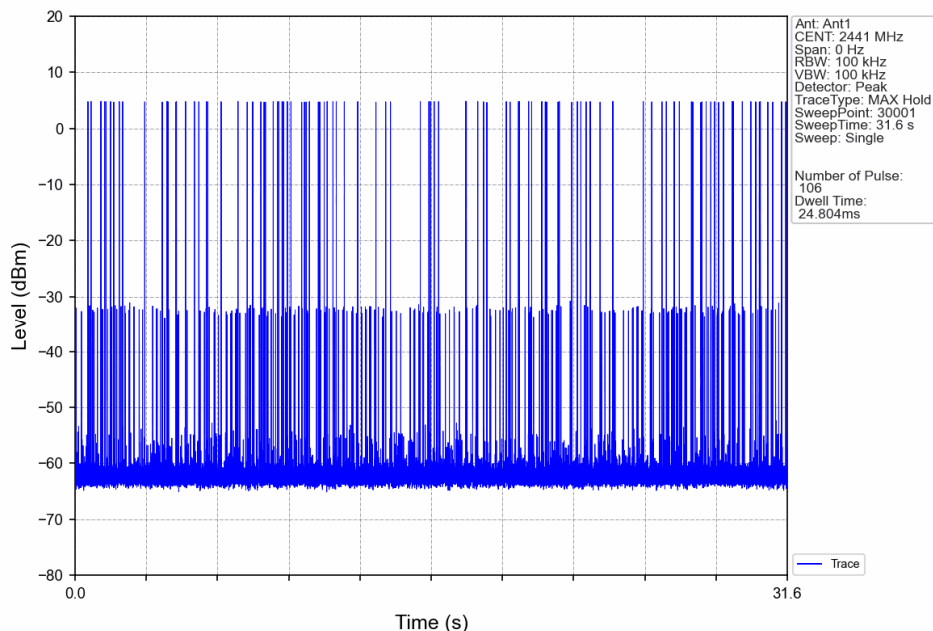
### 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



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



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



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

### 6.1 Test Result

#### 6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	7.51
		2441	DH5	1	7.97
		2480	DH5	1	8.13
Pi/4DQPSK	SISO	2402	2DH5	1	4.46
		2441	2DH5	1	5.10
		2480	2DH5	1	5.32
8DPSK	SISO	2402	3DH5	1	4.57
		2441	3DH5	1	5.18
		2480	3DH5	1	5.43

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 CSE and Band Edges

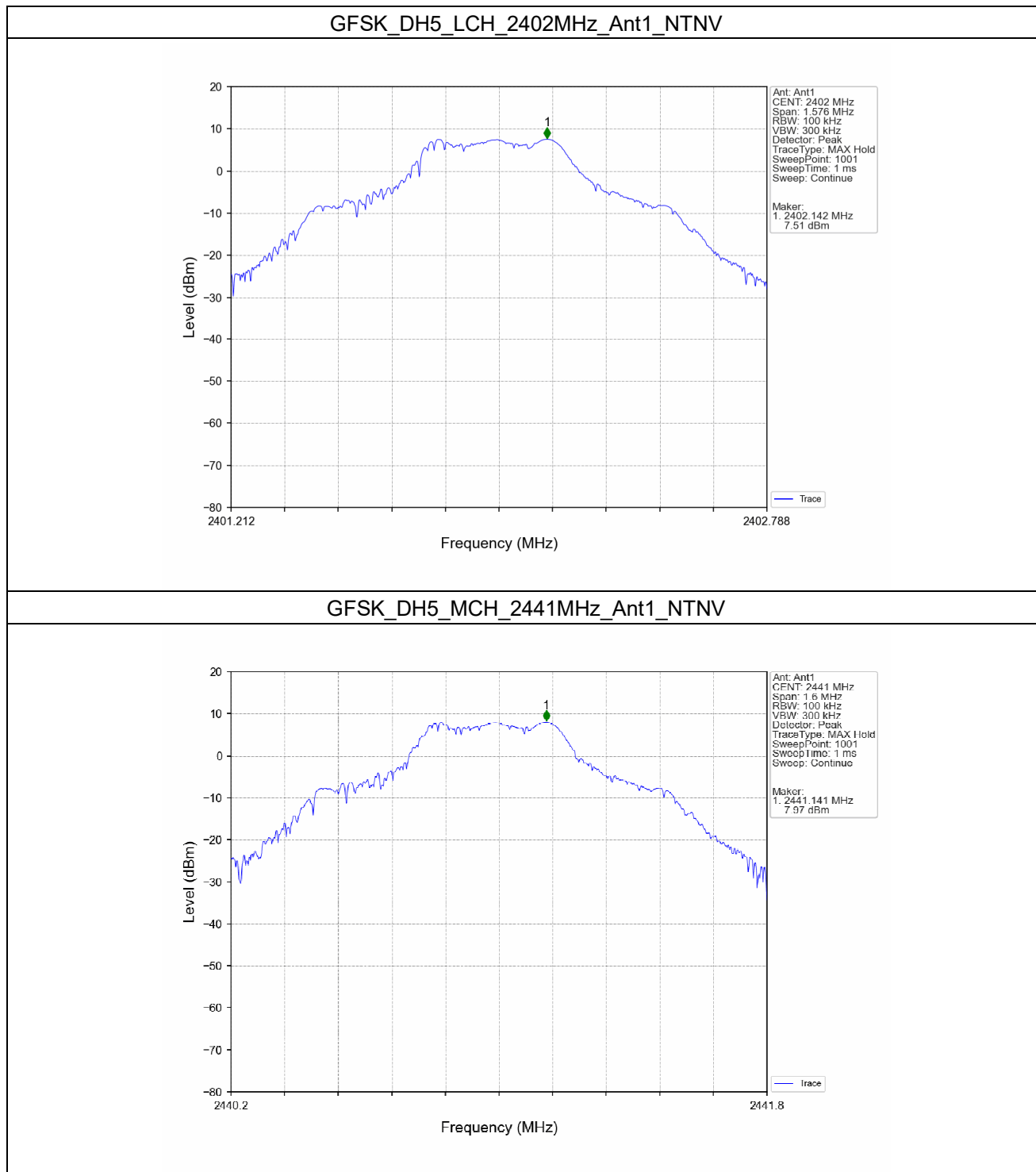
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.13	-11.87	Pass
		2441	DH5	1	8.13	-11.87	Pass
		2480	DH5	1	8.13	-11.87	Pass
		HOPP	DH5	1	8.13	-11.87	Pass
					8.13	-11.87	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.32	-14.68	Pass
		2441	2DH5	1	5.32	-14.68	Pass
		2480	2DH5	1	5.32	-14.68	Pass
		HOPP	2DH5	1	5.32	-14.68	Pass
					5.32	-14.68	Pass
8DPSK	SISO	2402	3DH5	1	5.43	-14.57	Pass
		2441	3DH5	1	5.43	-14.57	Pass
		2480	3DH5	1	5.43	-14.57	Pass
		HOPP	3DH5	1	5.43	-14.57	Pass
					5.43	-14.57	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 Test Graph

#### 6.2.1 Ref

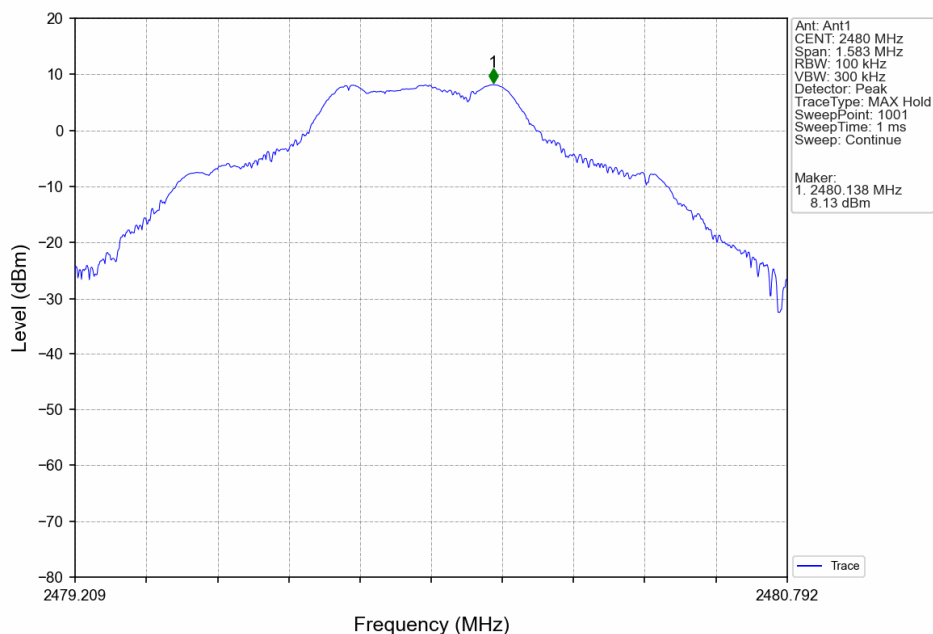


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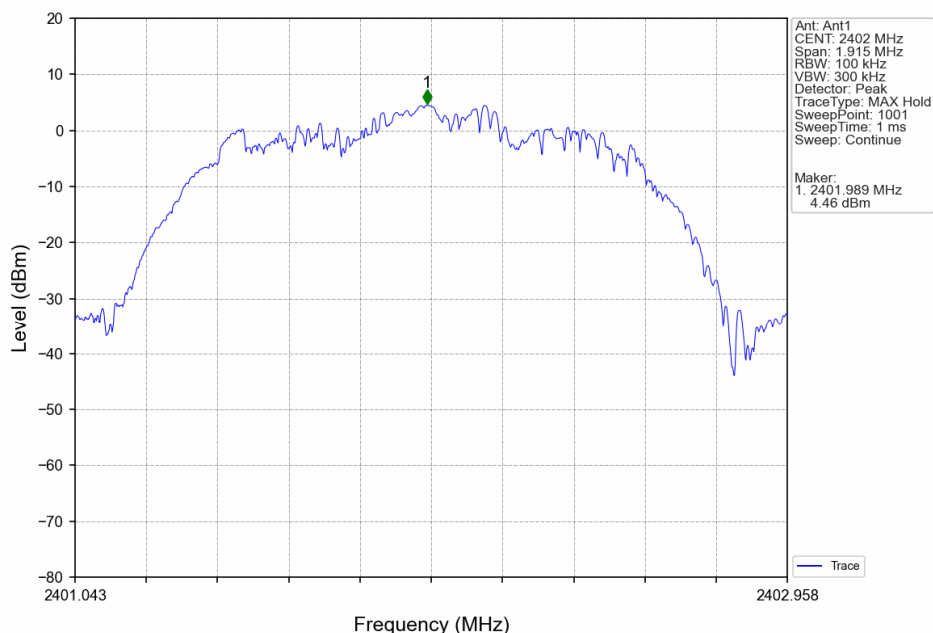
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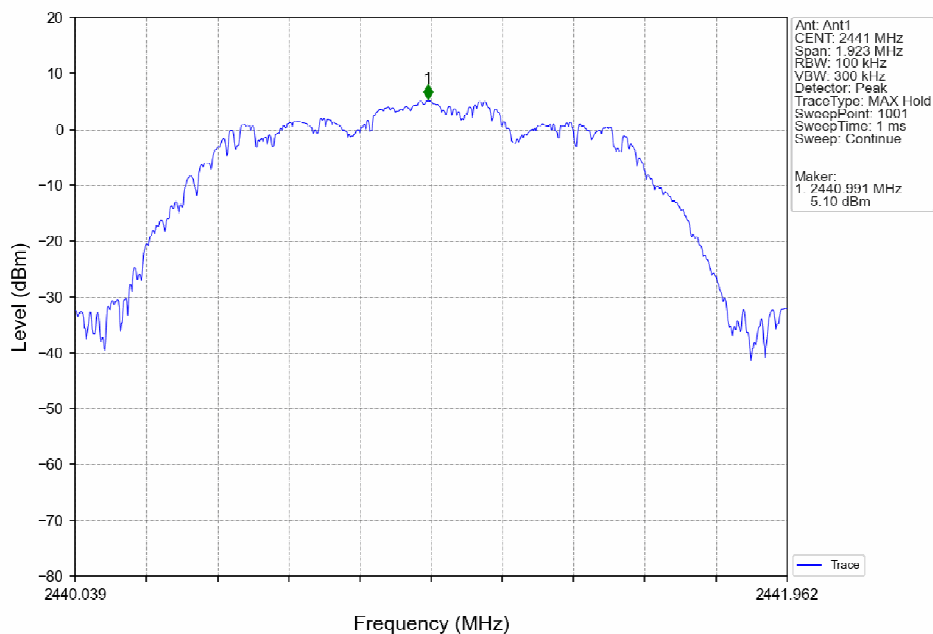
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



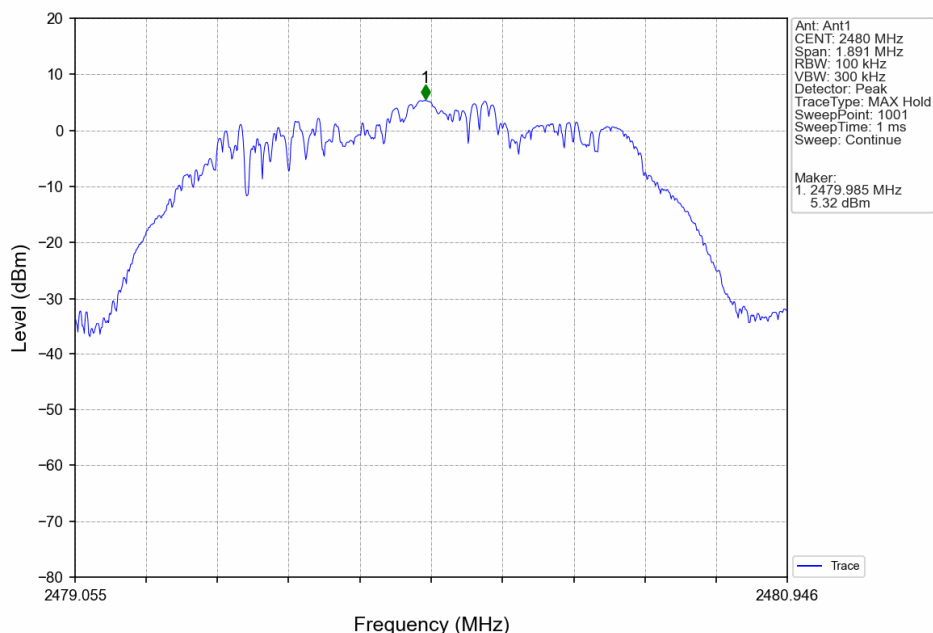
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



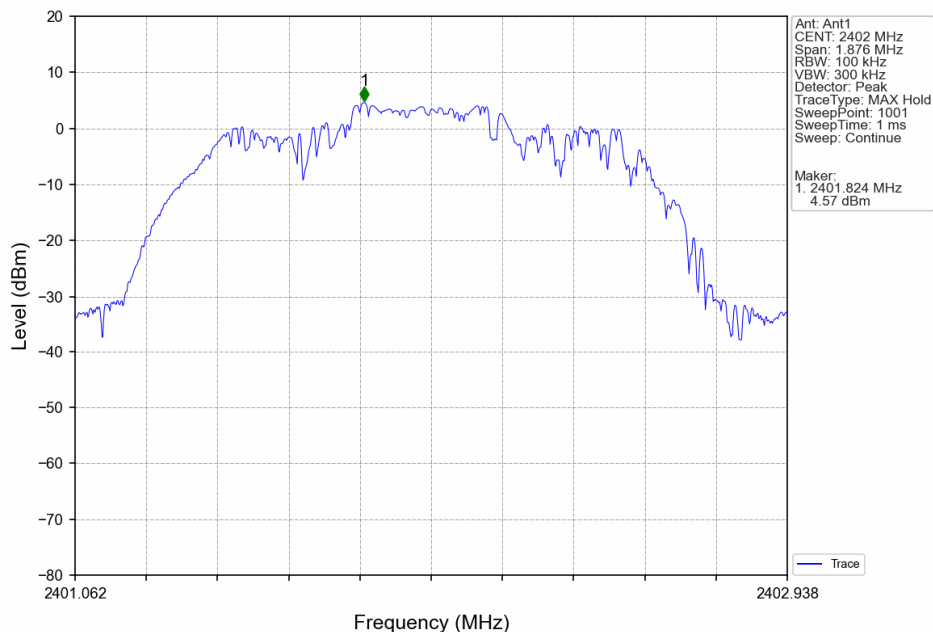
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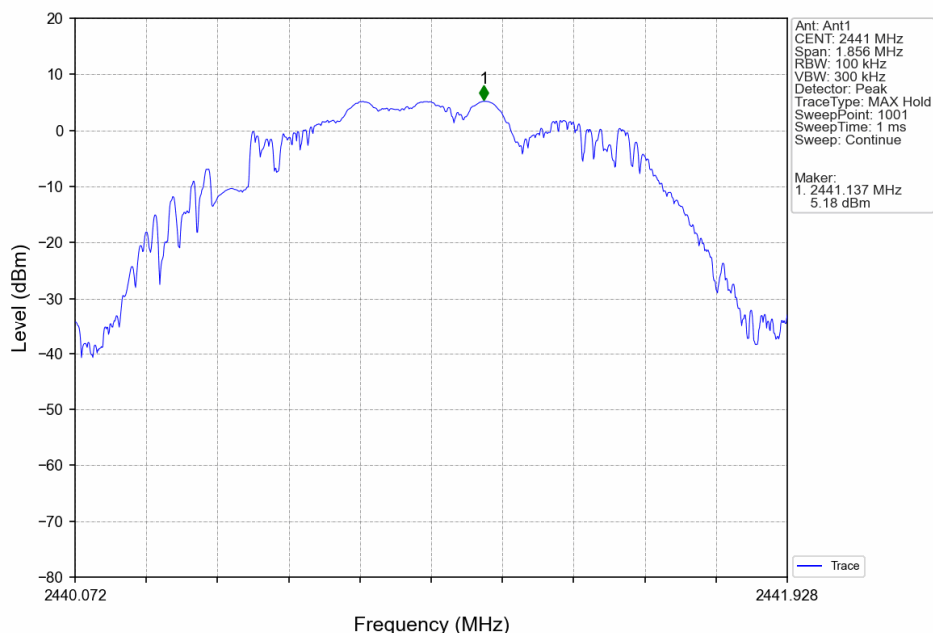
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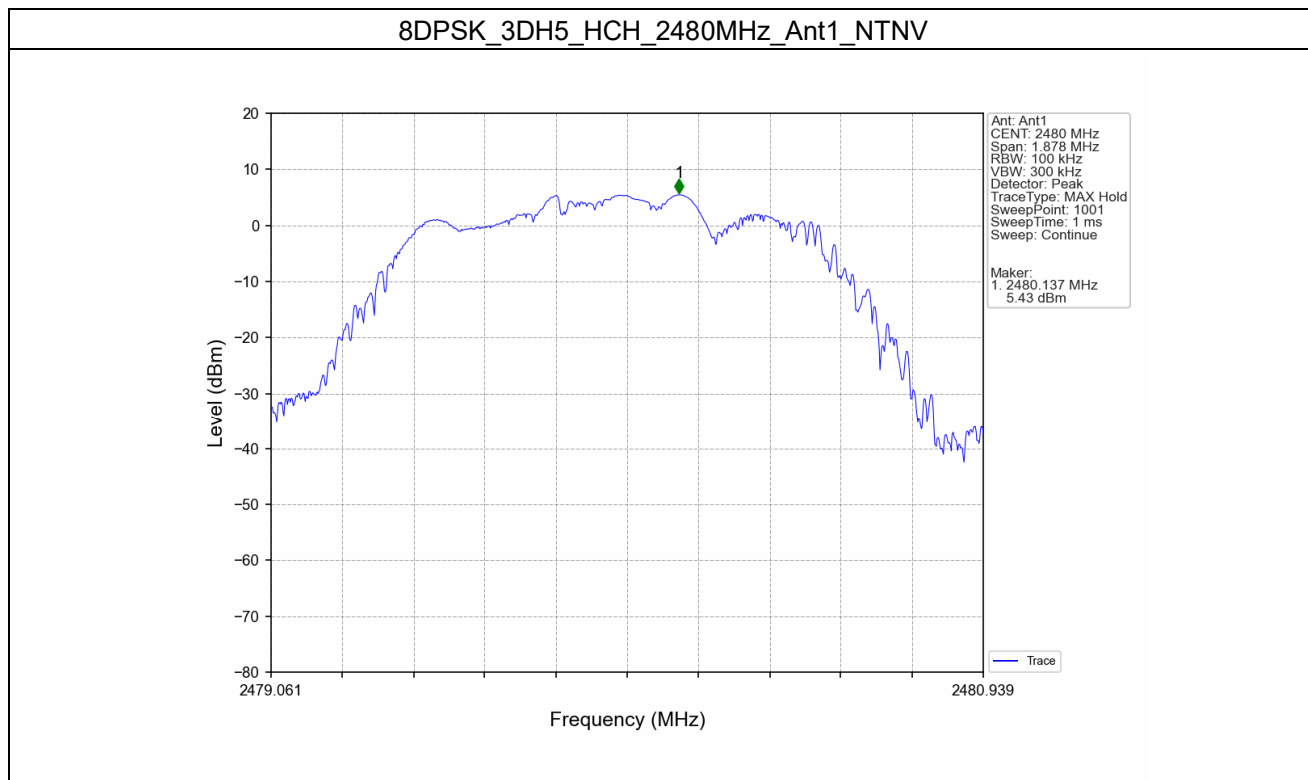


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV

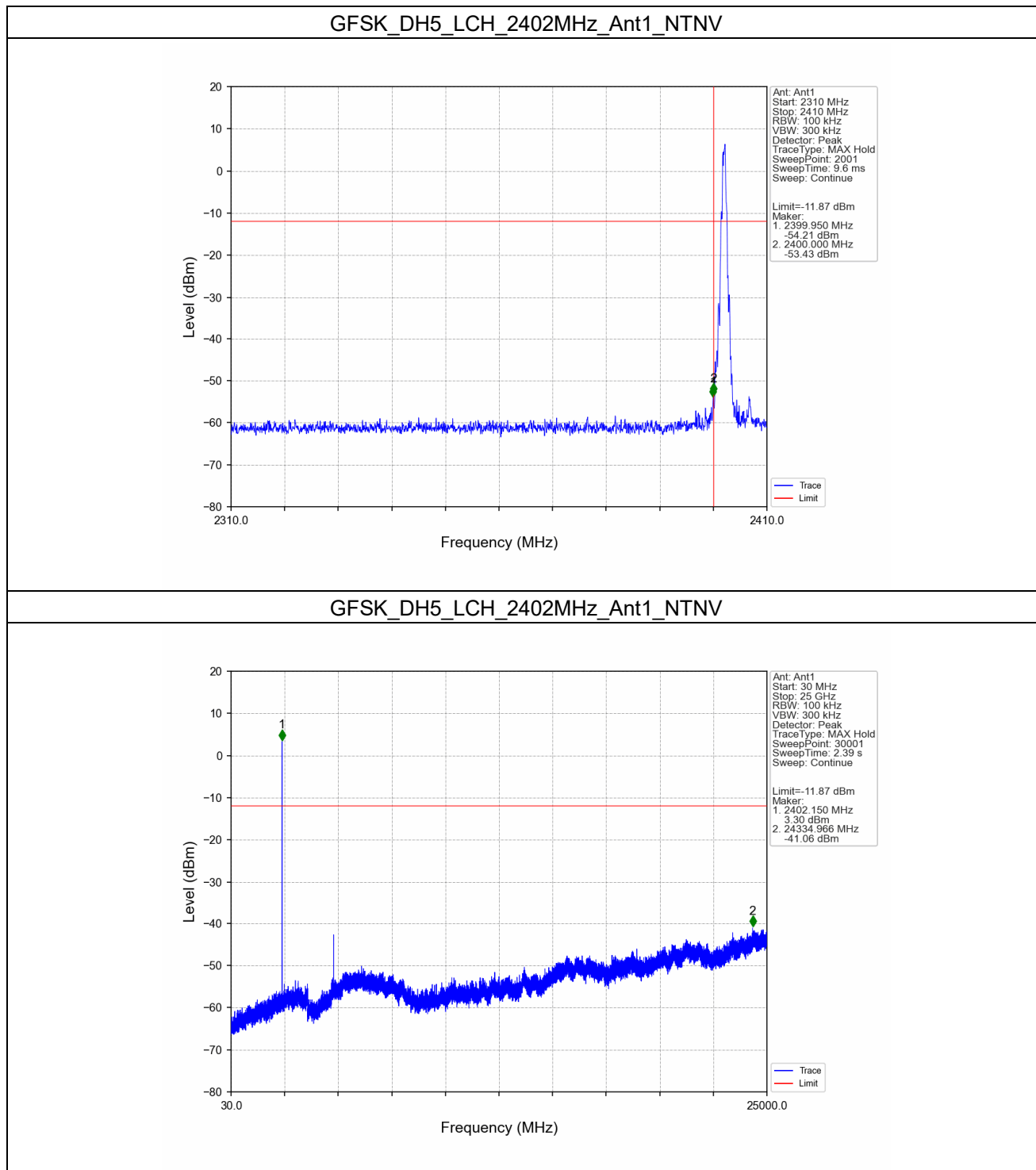


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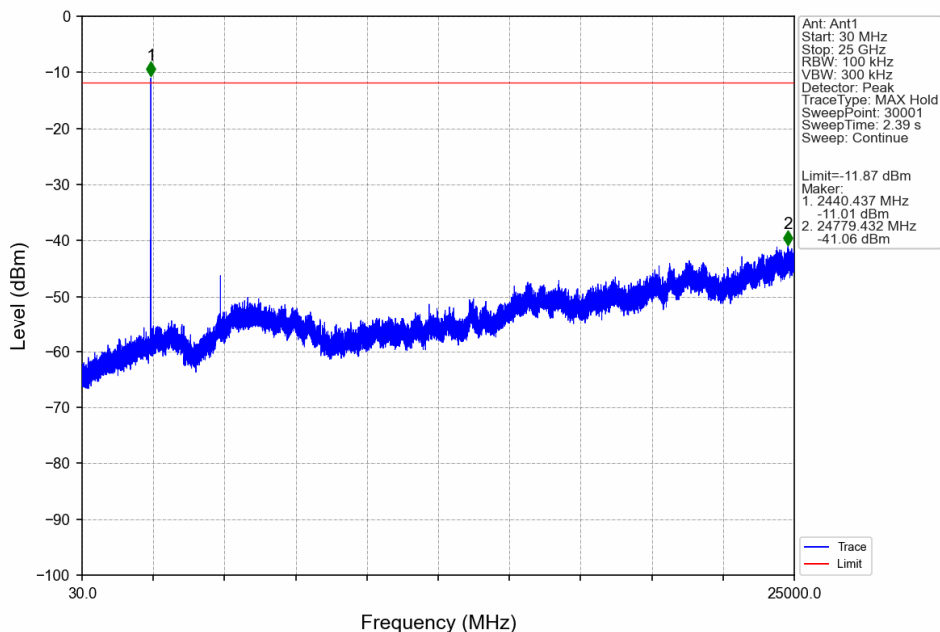


### 6.2.2 CSE and Band Edges

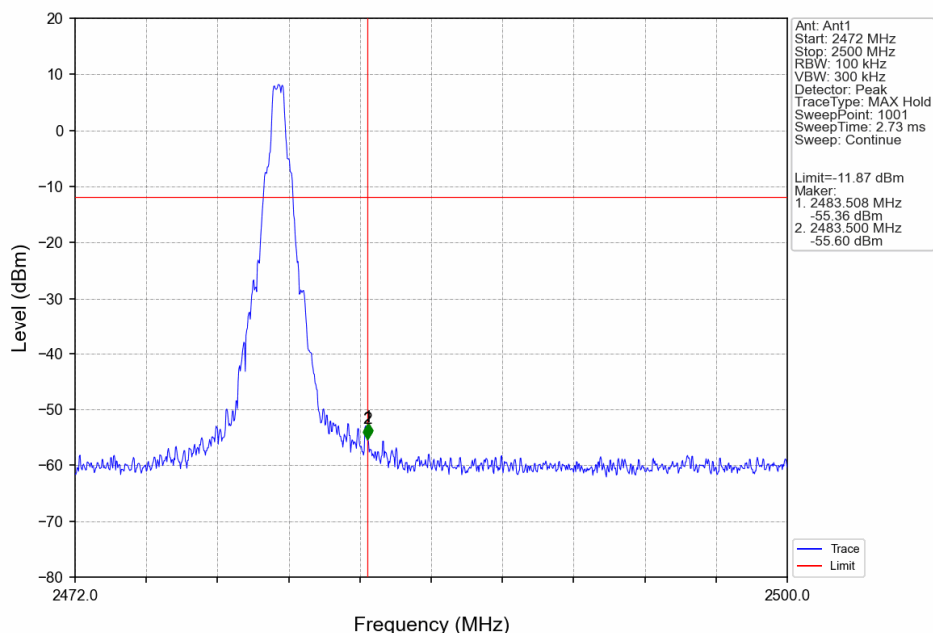




### GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



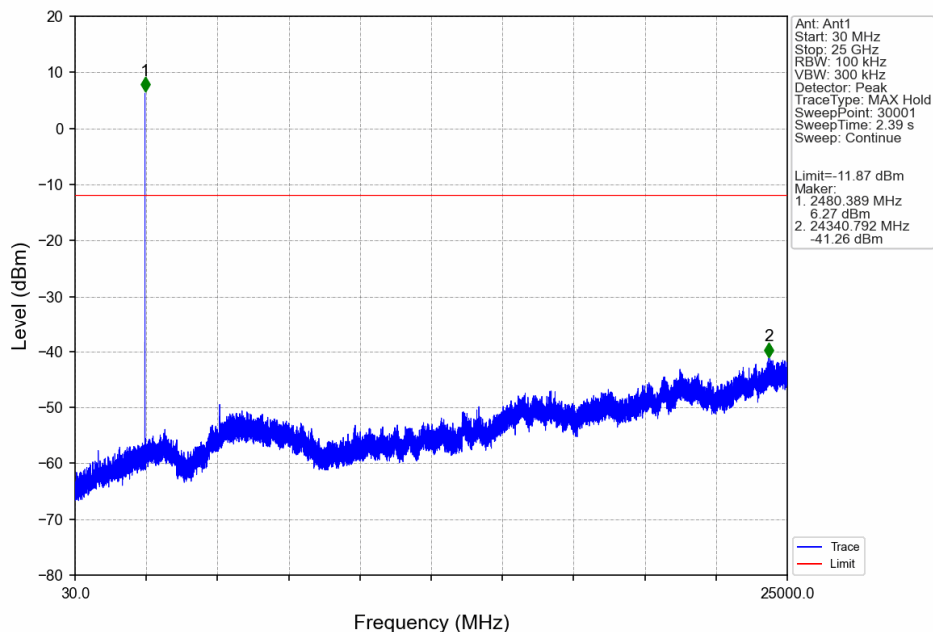
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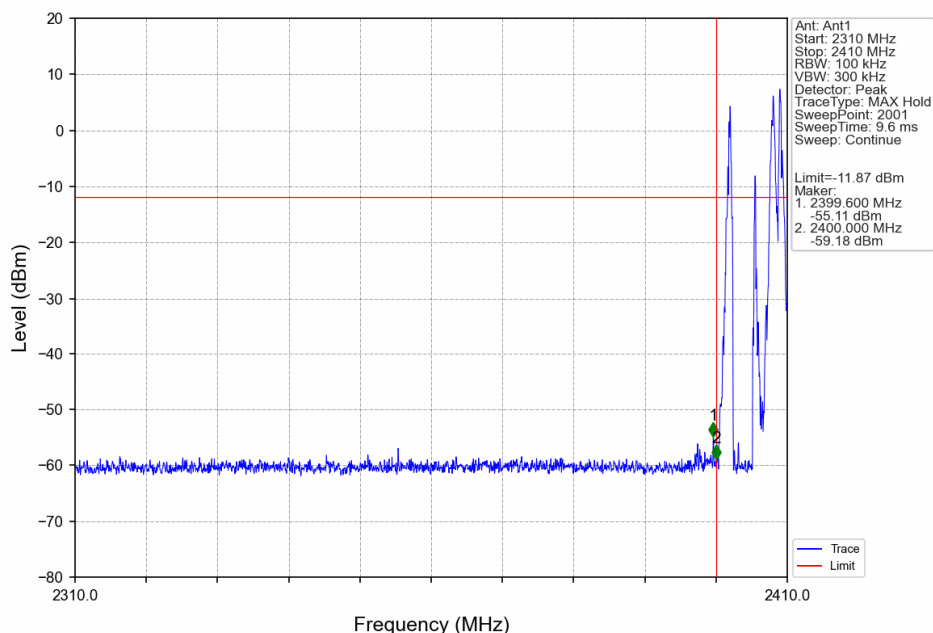
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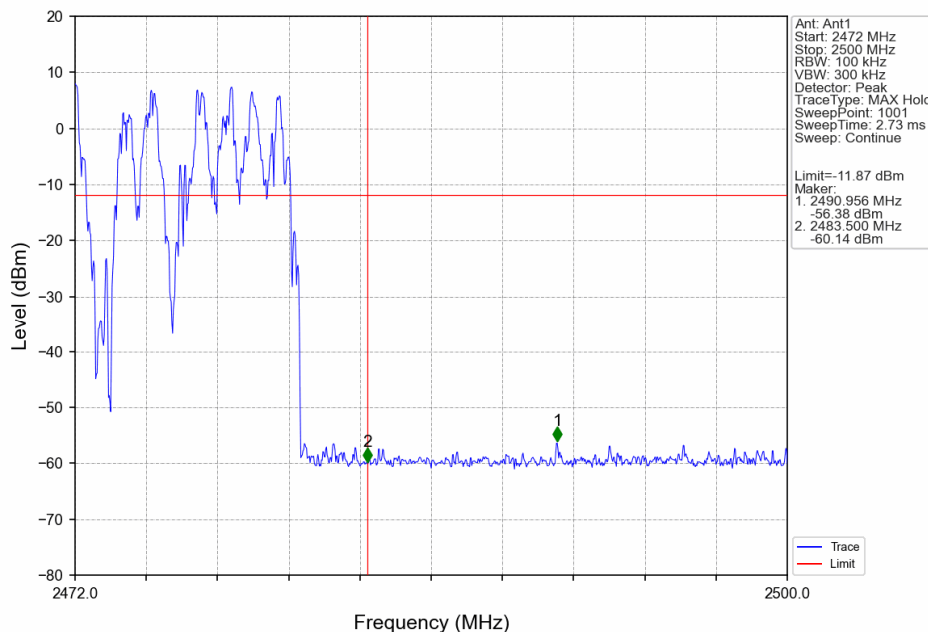
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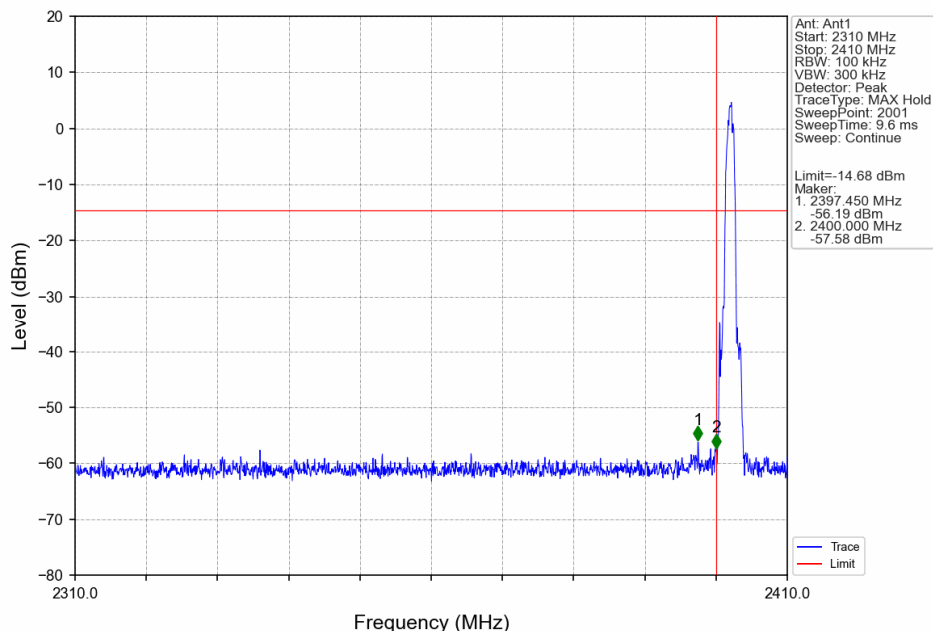
### GFSK\_DH5\_HOPP\_2410MHz\_Ant1\_NTNV



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



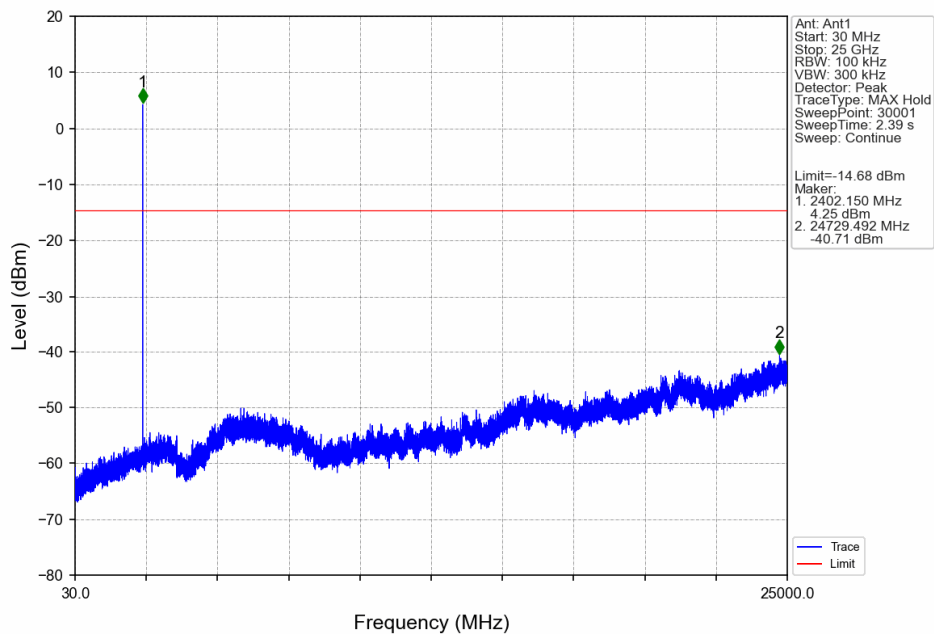
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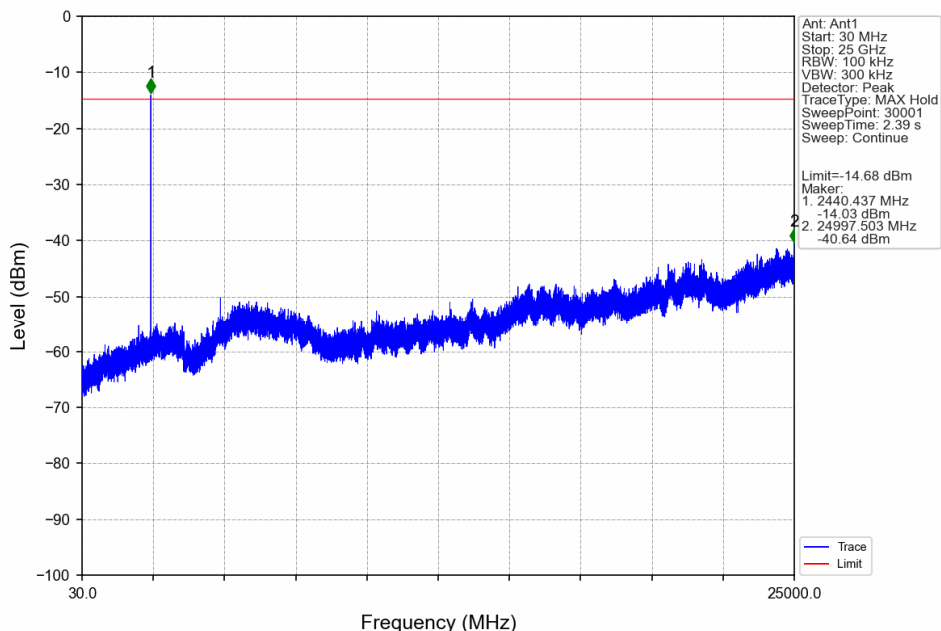
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### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

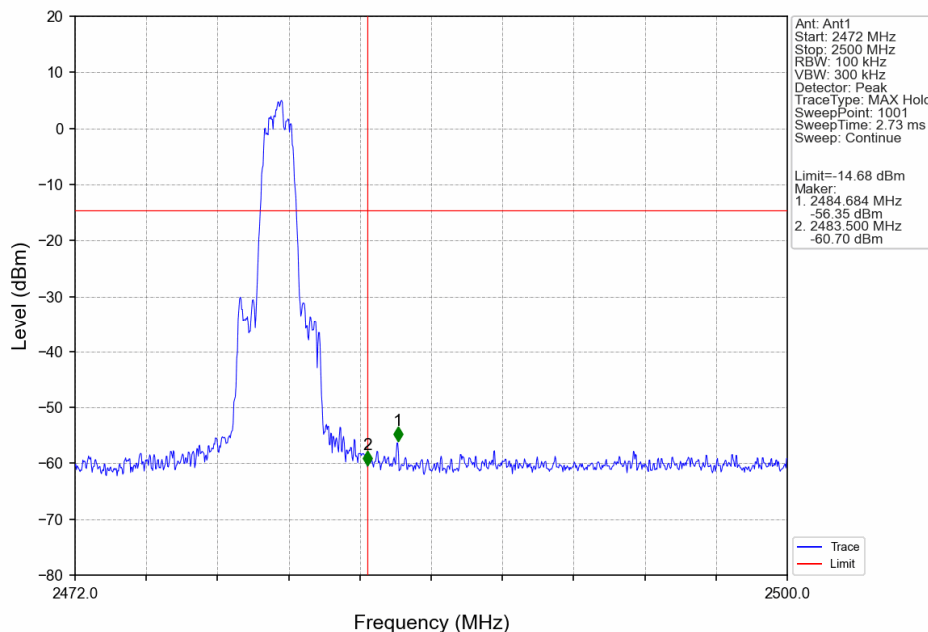


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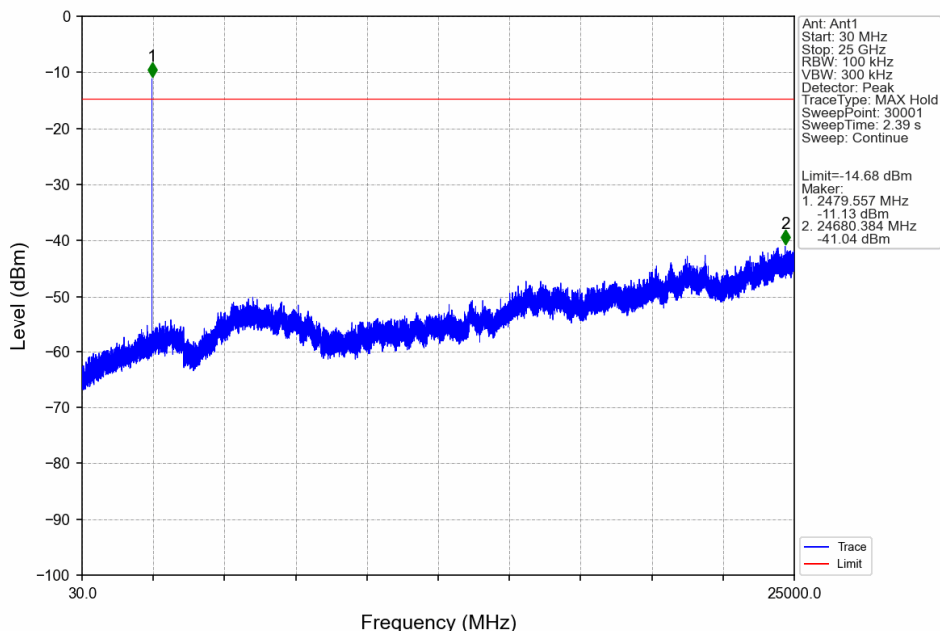




### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

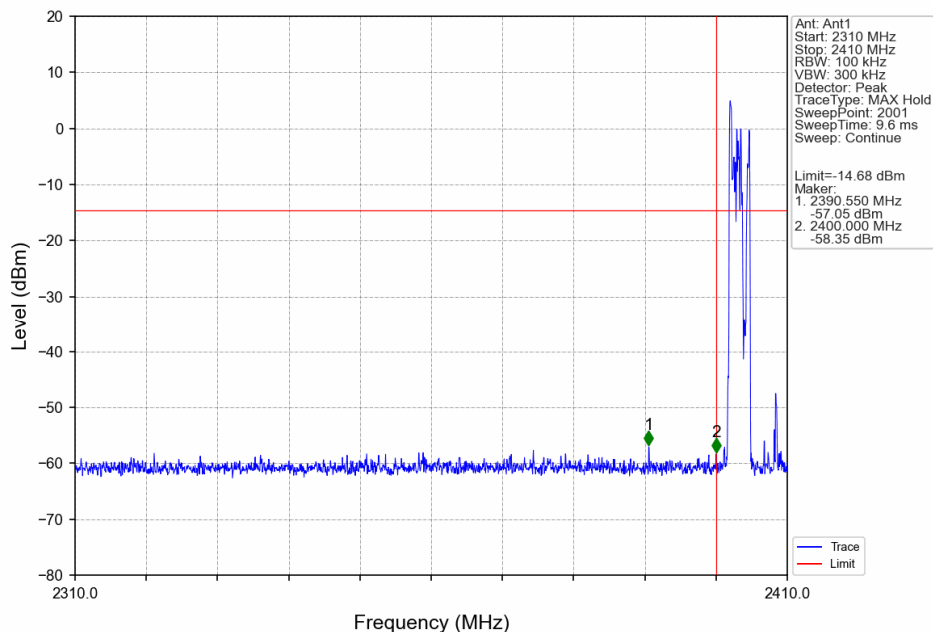


### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

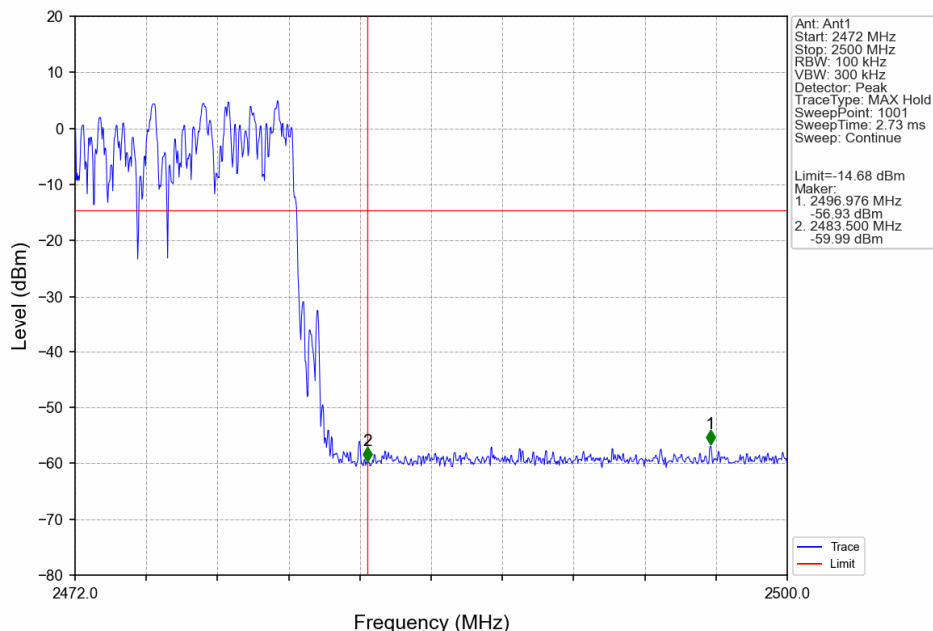




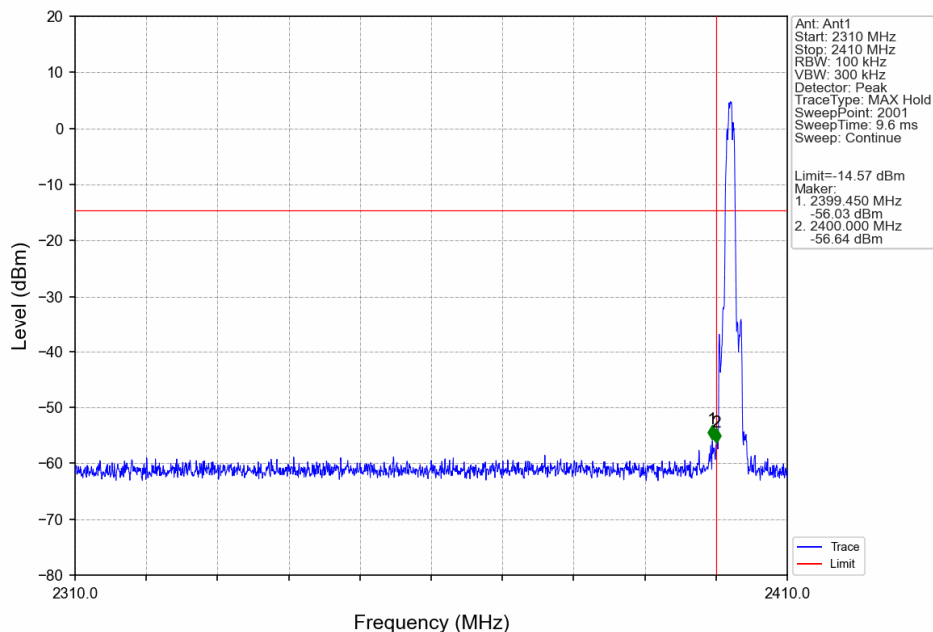
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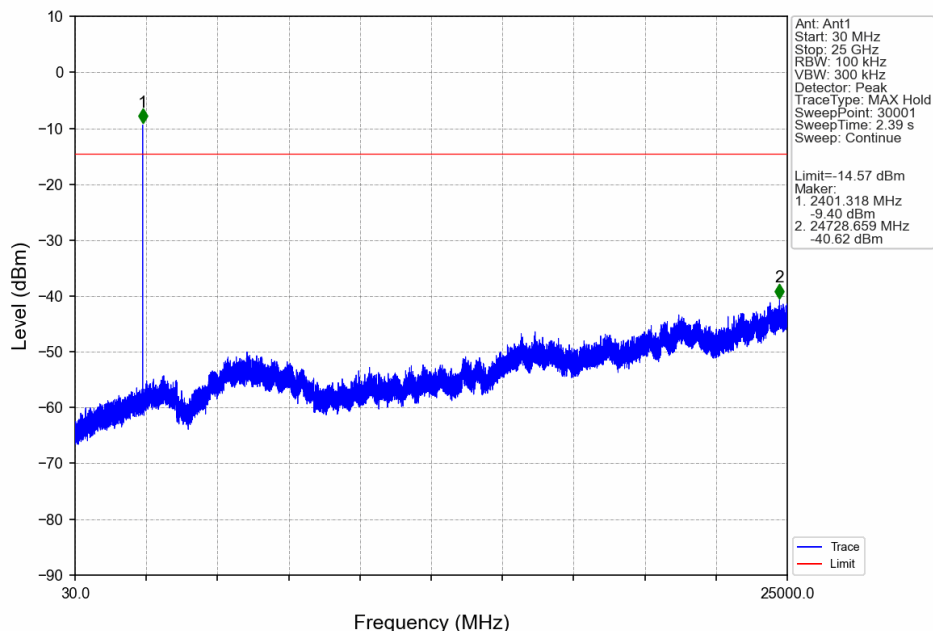
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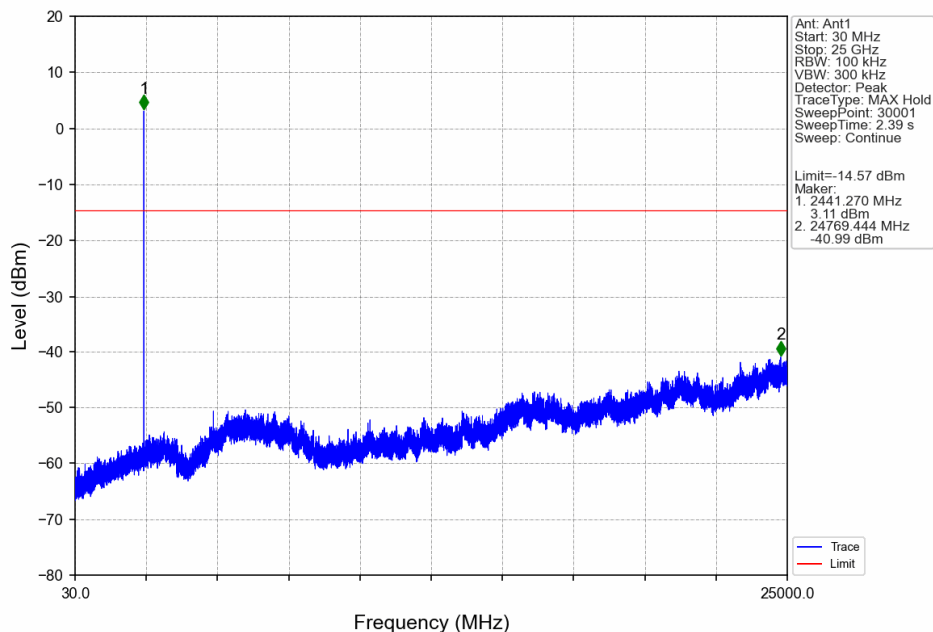
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



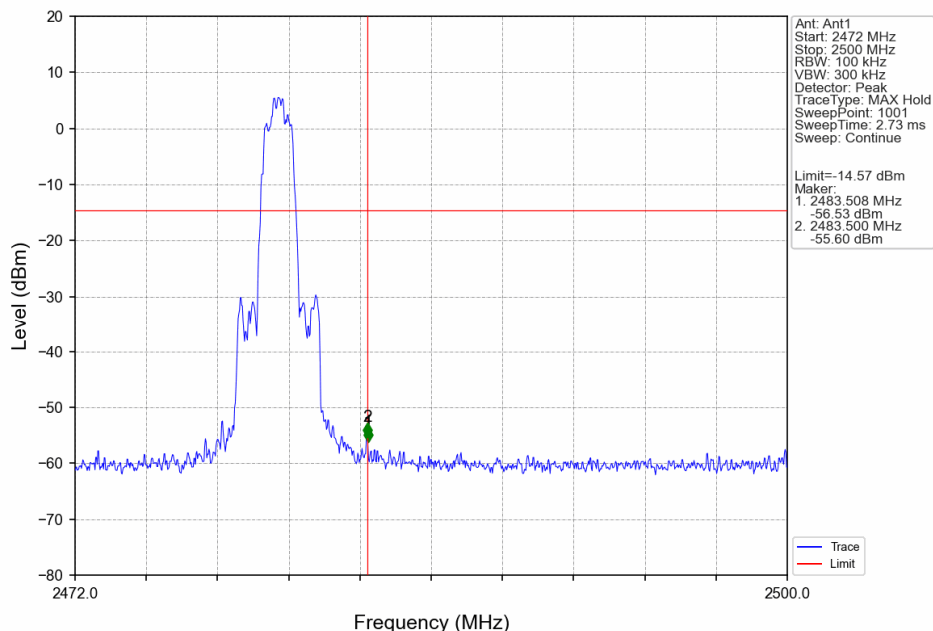
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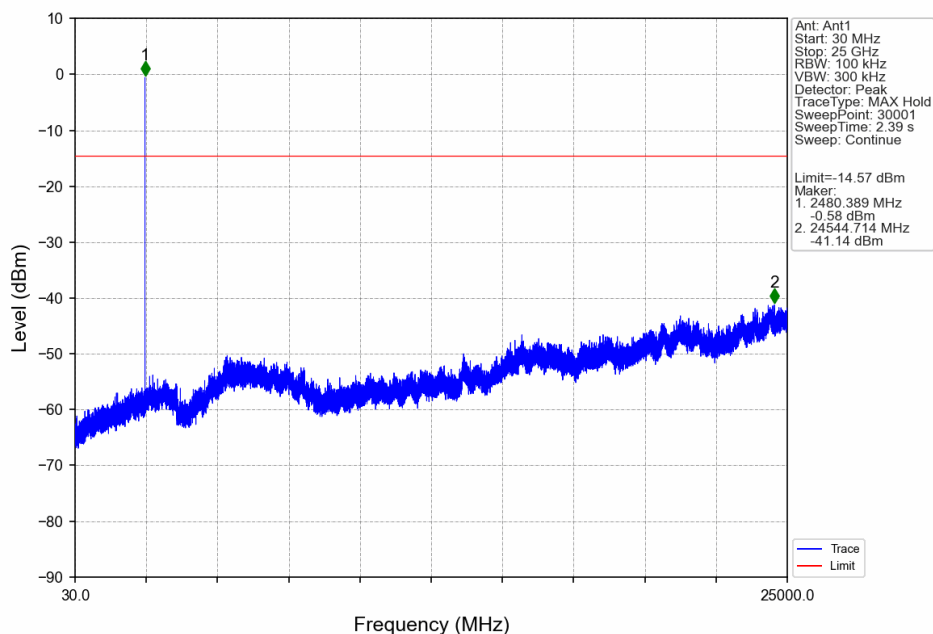
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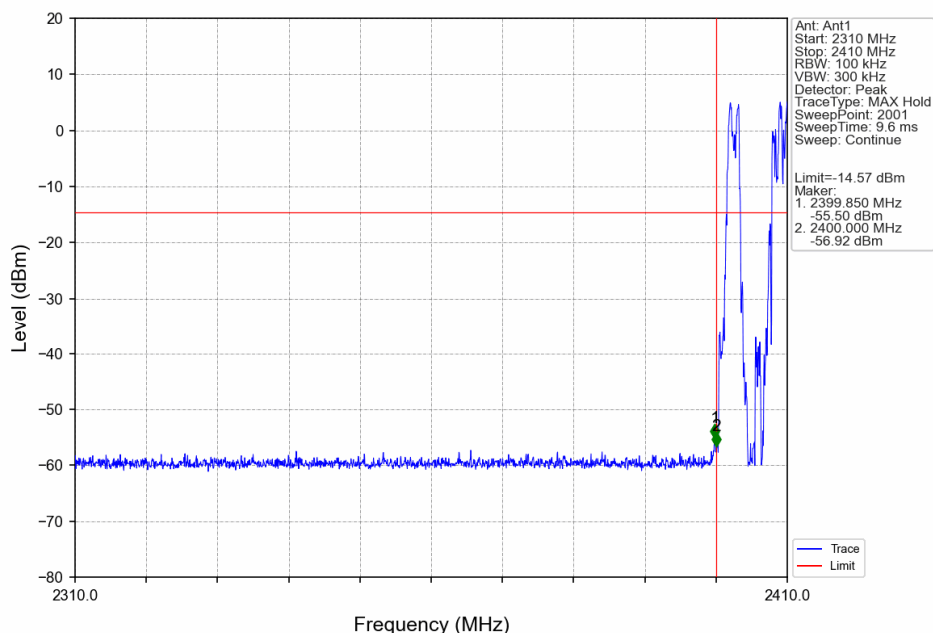
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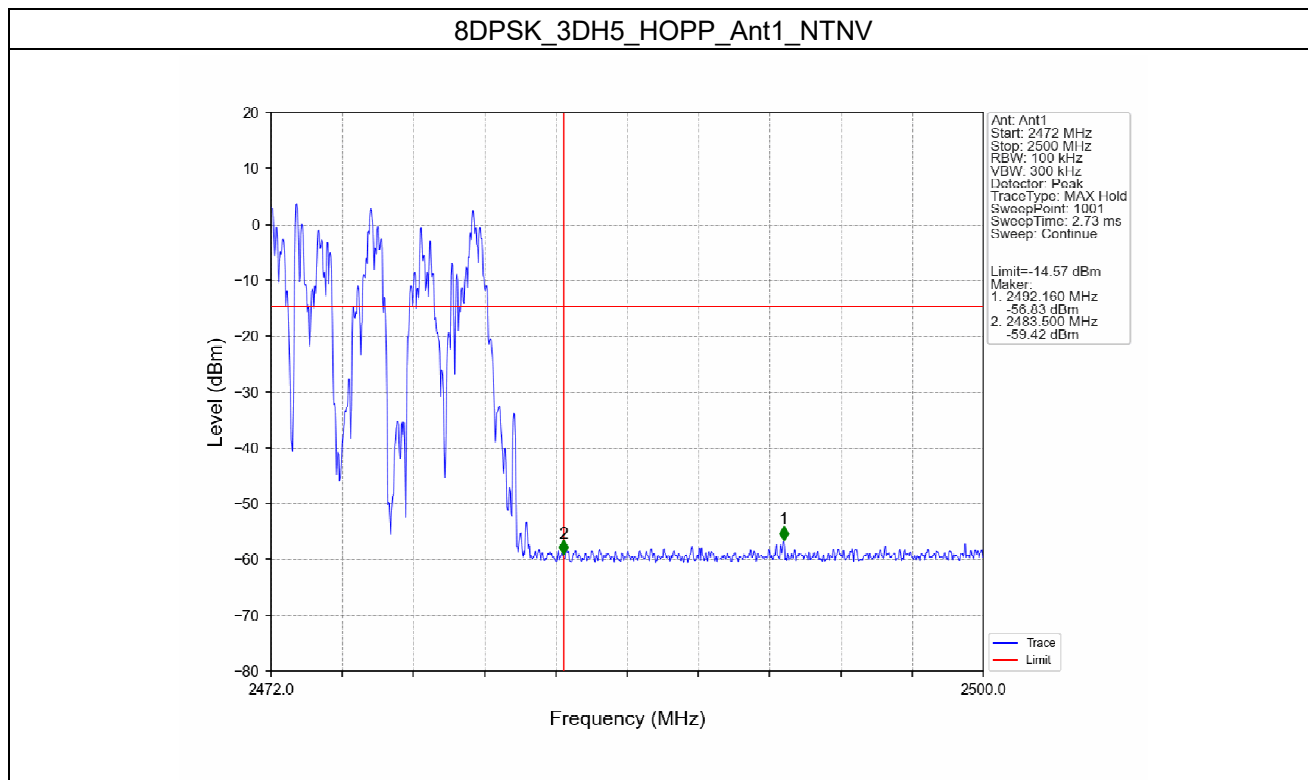


### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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





- End of the Report -



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