

Appendix B for KSCR220500075902-BT

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	0.844	Pass
		2441	DH5	1	0.841	Pass
		2480	DH5	1	0.841	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.184	Pass
		2441	2DH5	1	1.183	Pass
		2480	2DH5	1	1.182	Pass
8DPSK	SISO	2402	3DH5	1	1.170	Pass
		2441	3DH5	1	1.169	Pass
		2480	3DH5	1	1.167	Pass



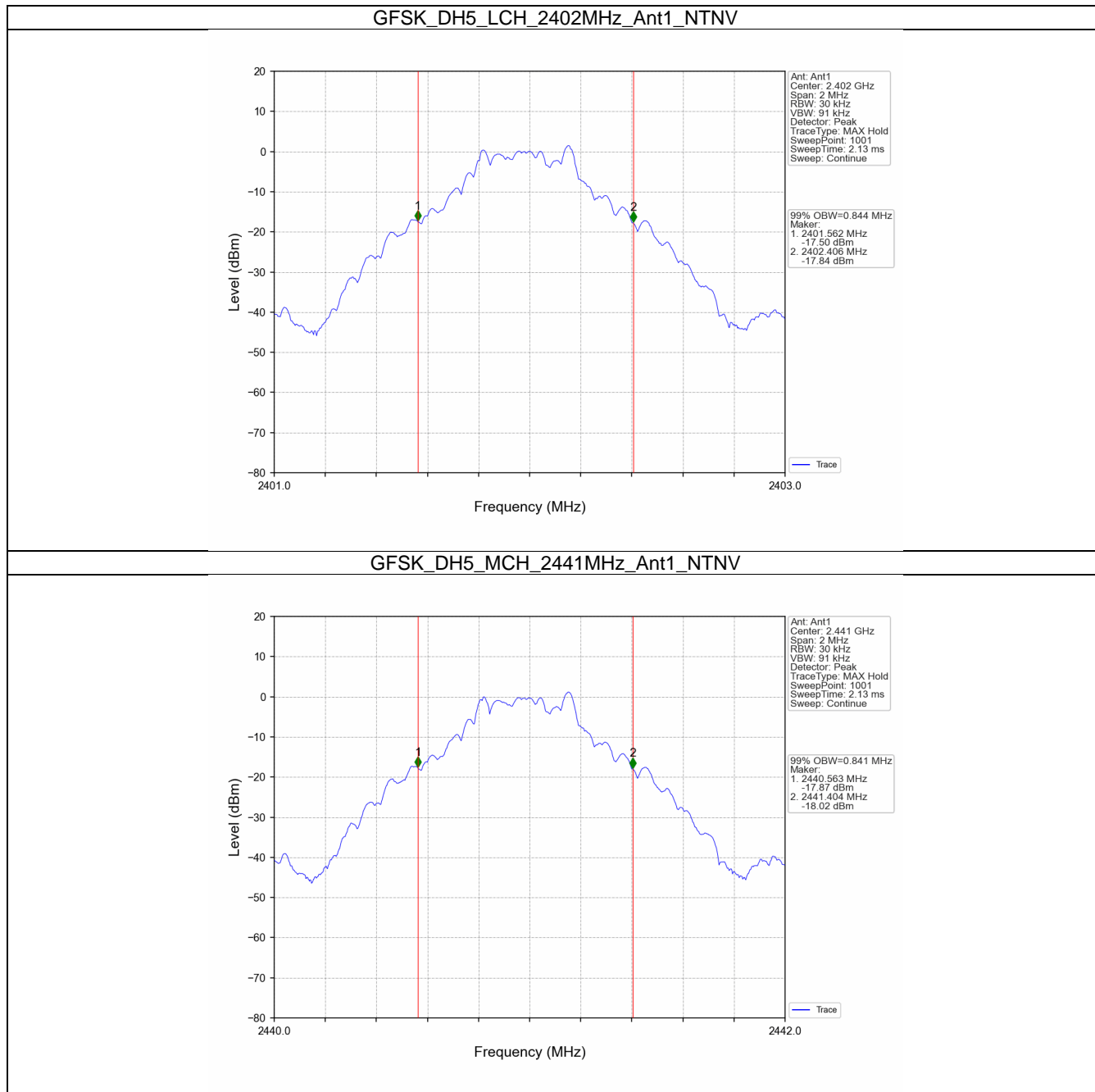
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## 1.1.2 Test Graph



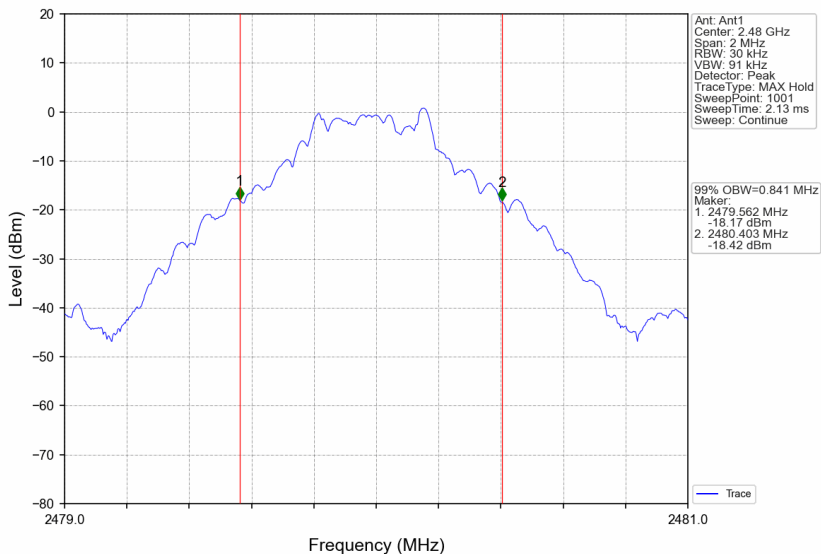
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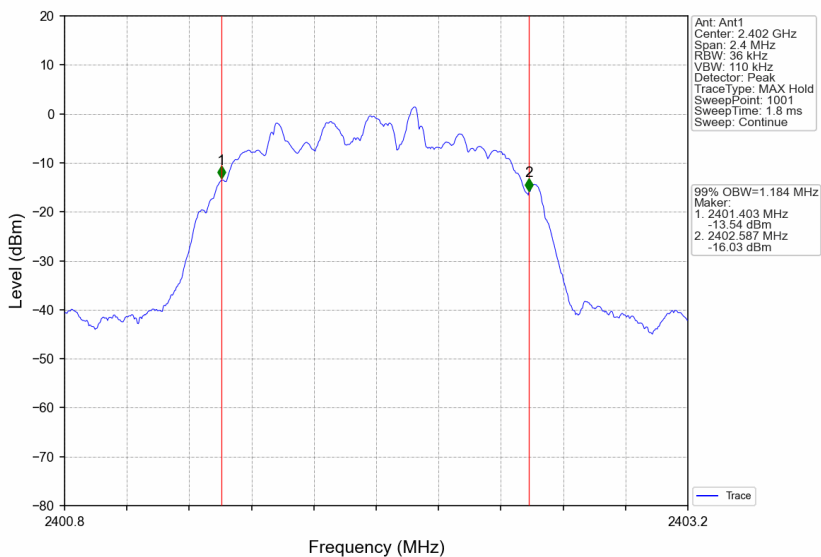
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



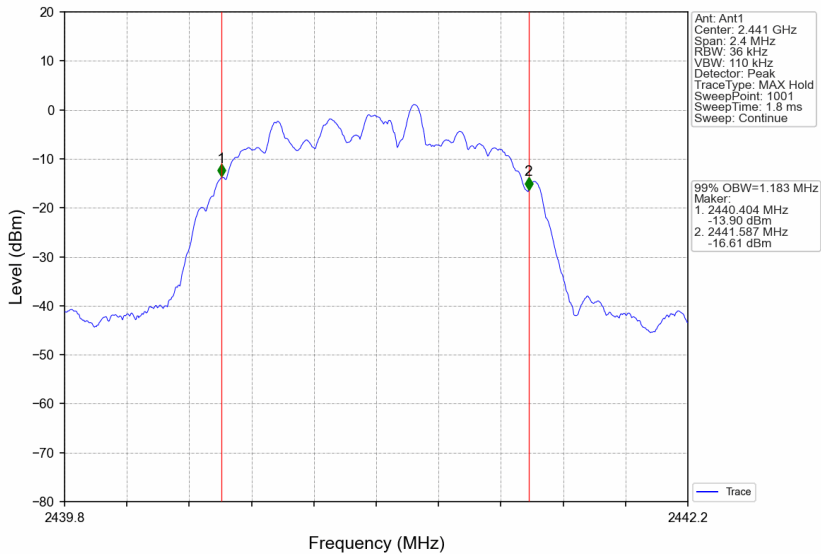
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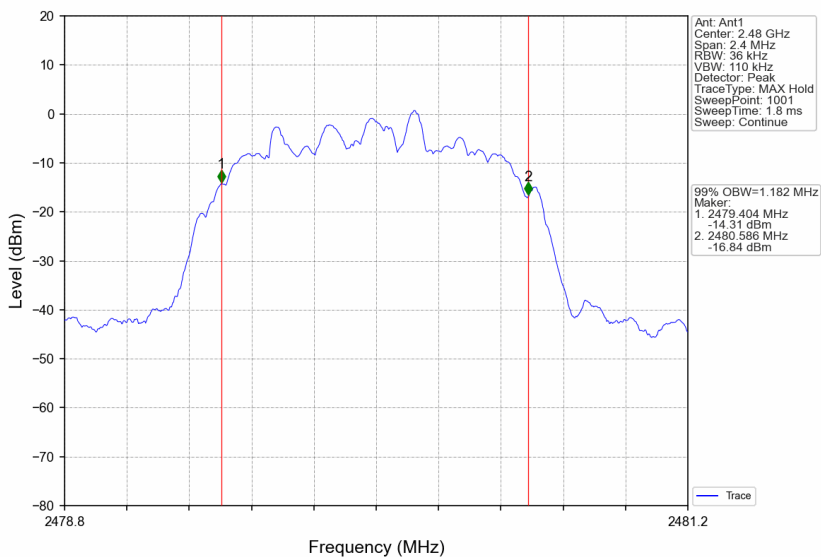
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



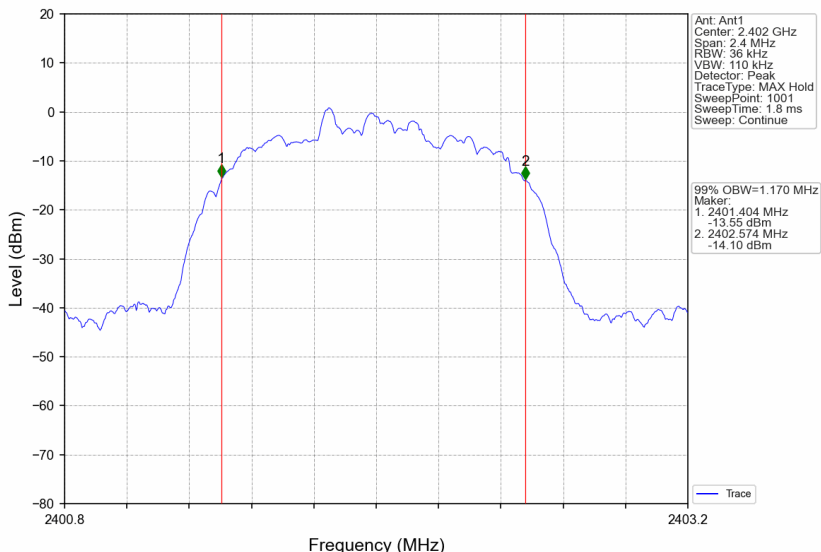
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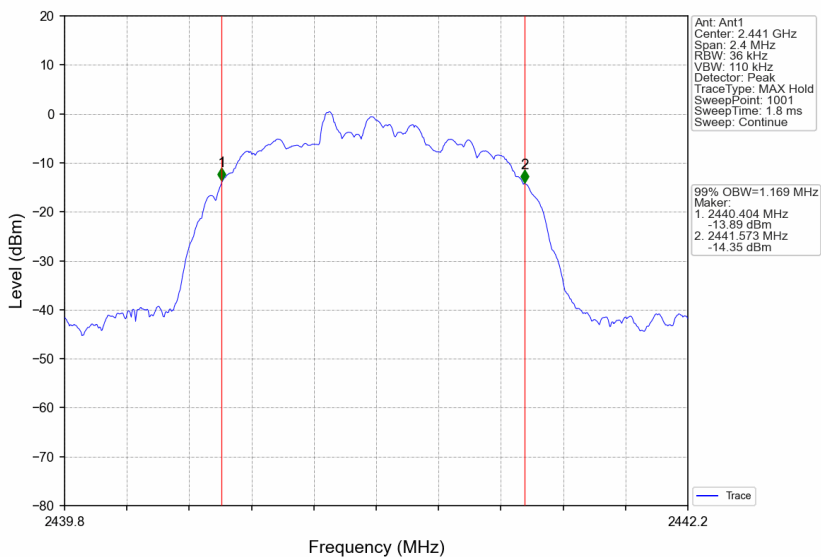
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



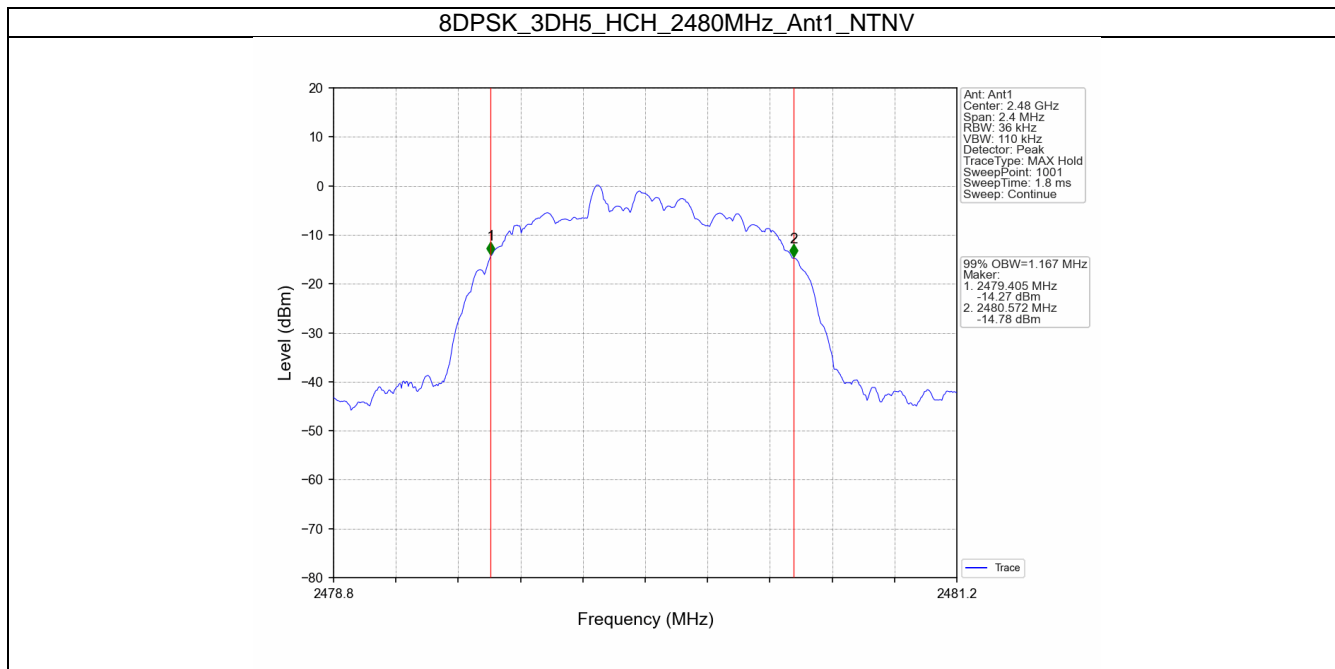
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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.947	Pass
		2441	DH5	1	0.954	Pass
		2480	DH5	1	0.949	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.290	Pass
		2441	2DH5	1	1.286	Pass
		2480	2DH5	1	1.289	Pass
8DPSK	SISO	2402	3DH5	1	1.305	Pass
		2441	3DH5	1	1.303	Pass
		2480	3DH5	1	1.303	Pass



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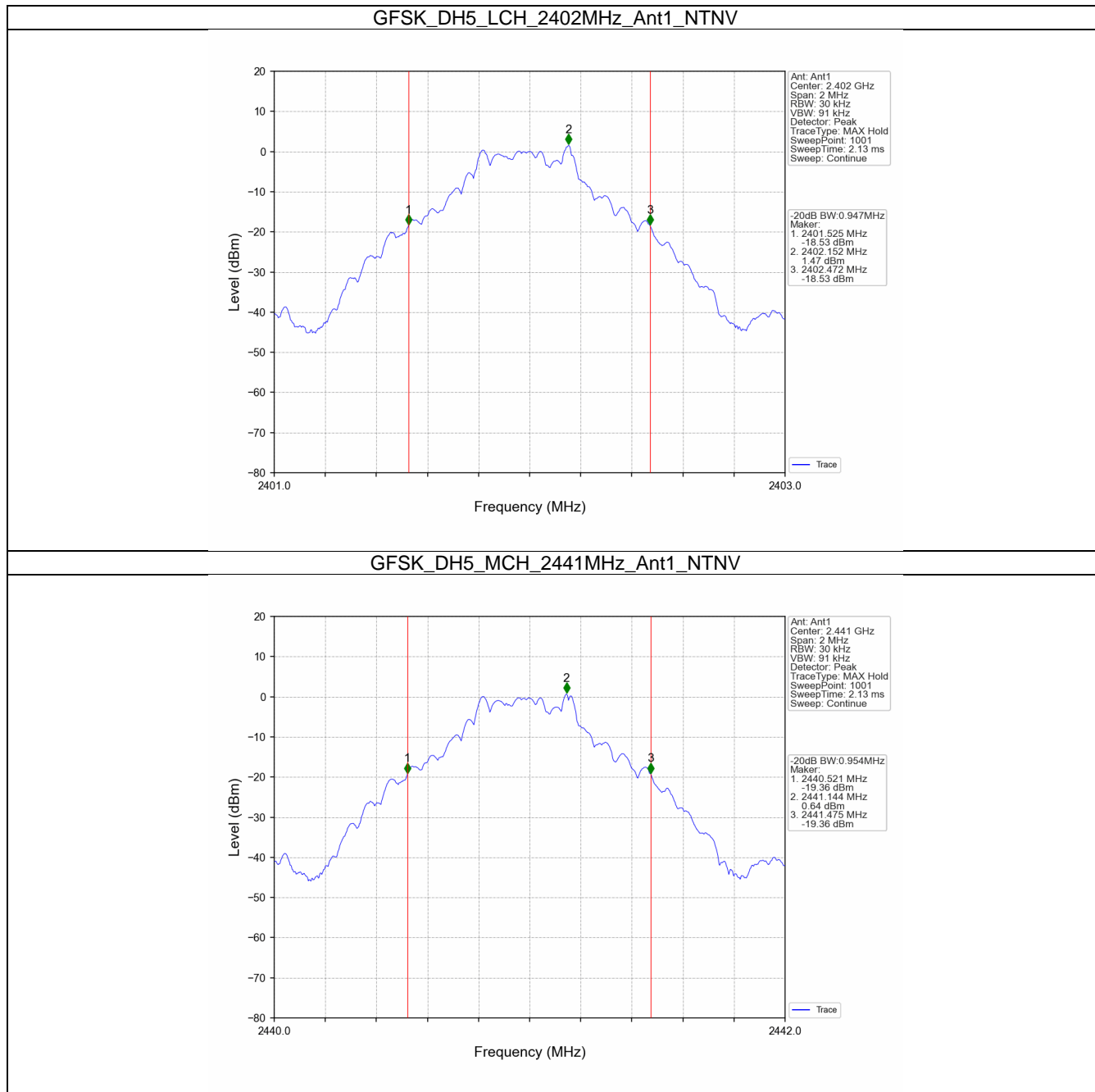
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1.2.2 Test Graph



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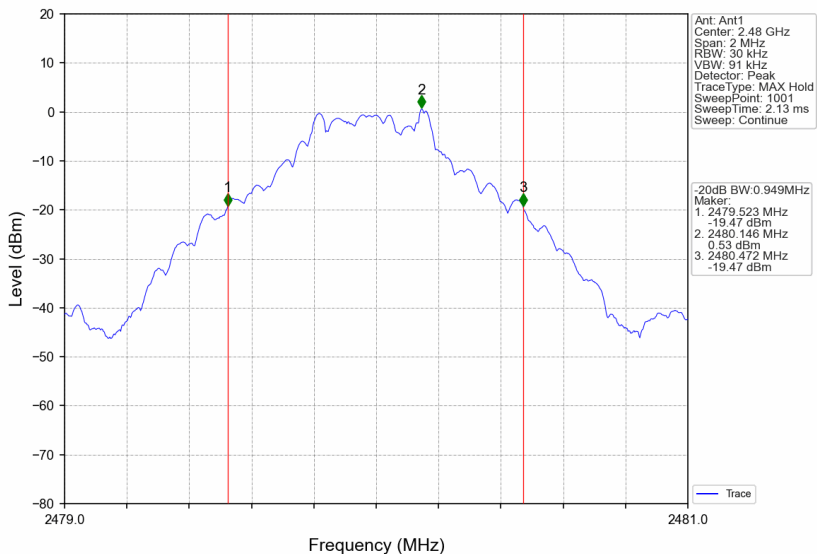
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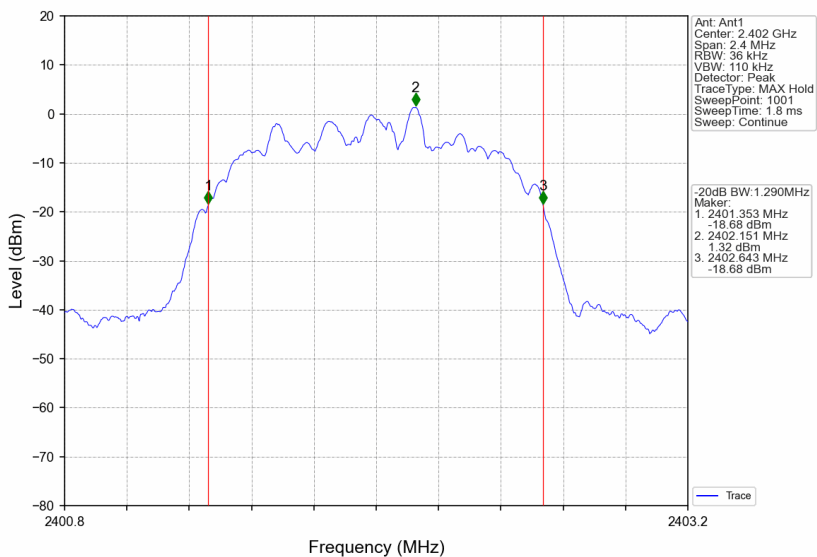
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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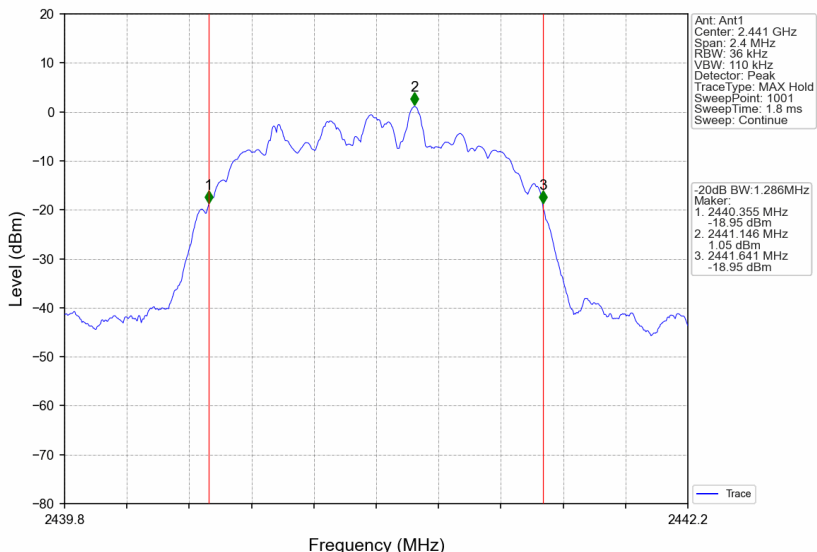
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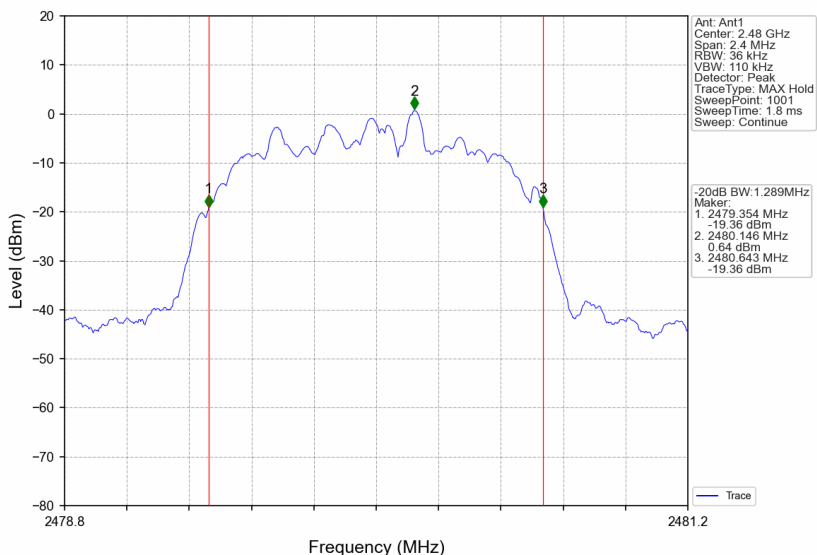
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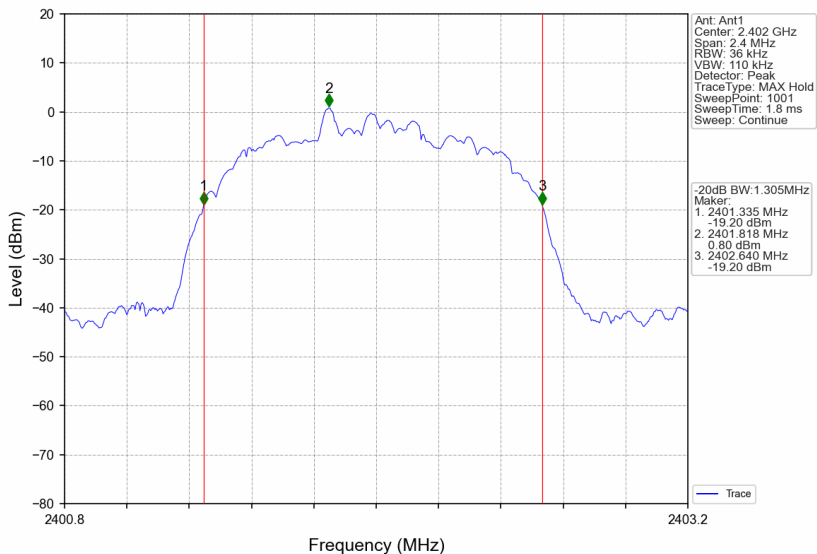
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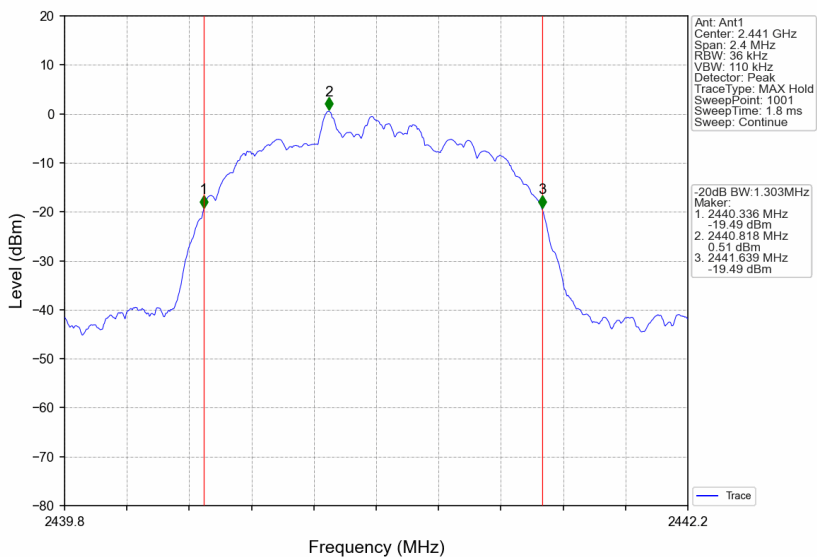
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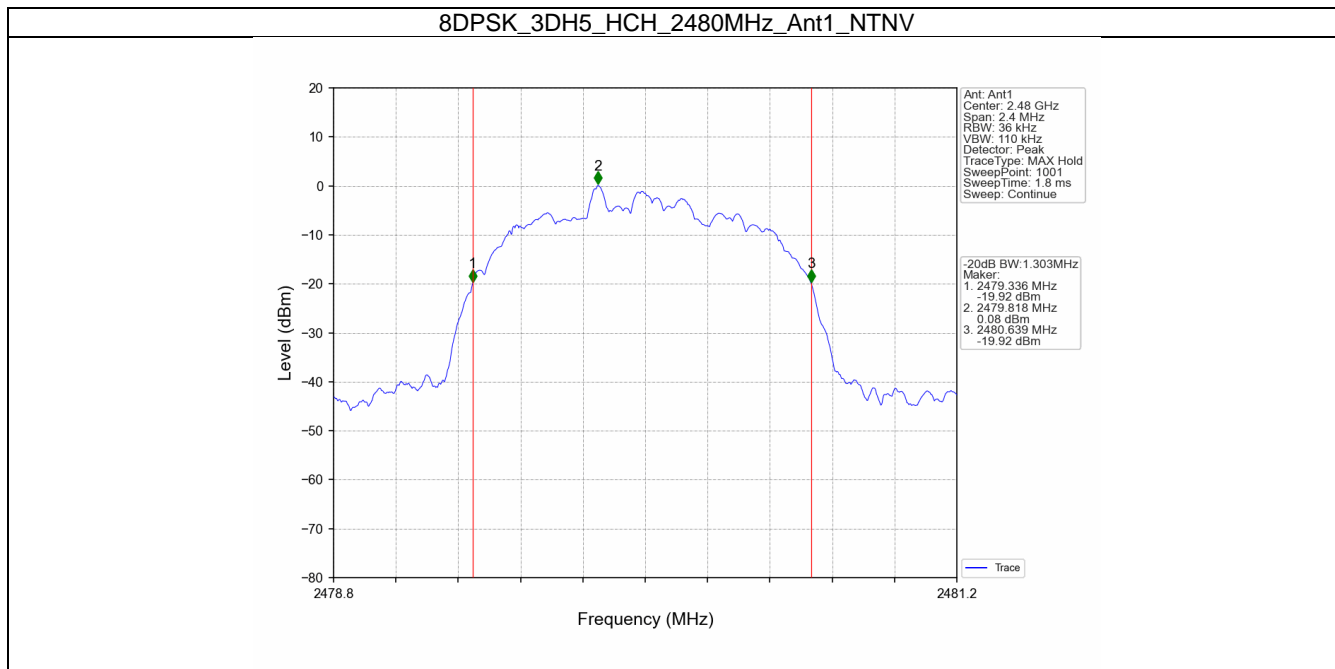


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## 2. Maximum Conducted Output Power

### 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	2.72	<=30	Pass
		2441	DH5	2.39	<=30	Pass
		2480	DH5	2.04	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.77	<=20.97	Pass
		2441	2DH5	3.52	<=20.97	Pass
		2480	2DH5	3.20	<=20.97	Pass
8DPSK	SISO	2402	3DH5	4.27	<=20.97	Pass
		2441	3DH5	4.01	<=20.97	Pass
		2480	3DH5	3.66	<=20.97	Pass

Note1: Antenna Gain: Ant1: -1.00dBi;



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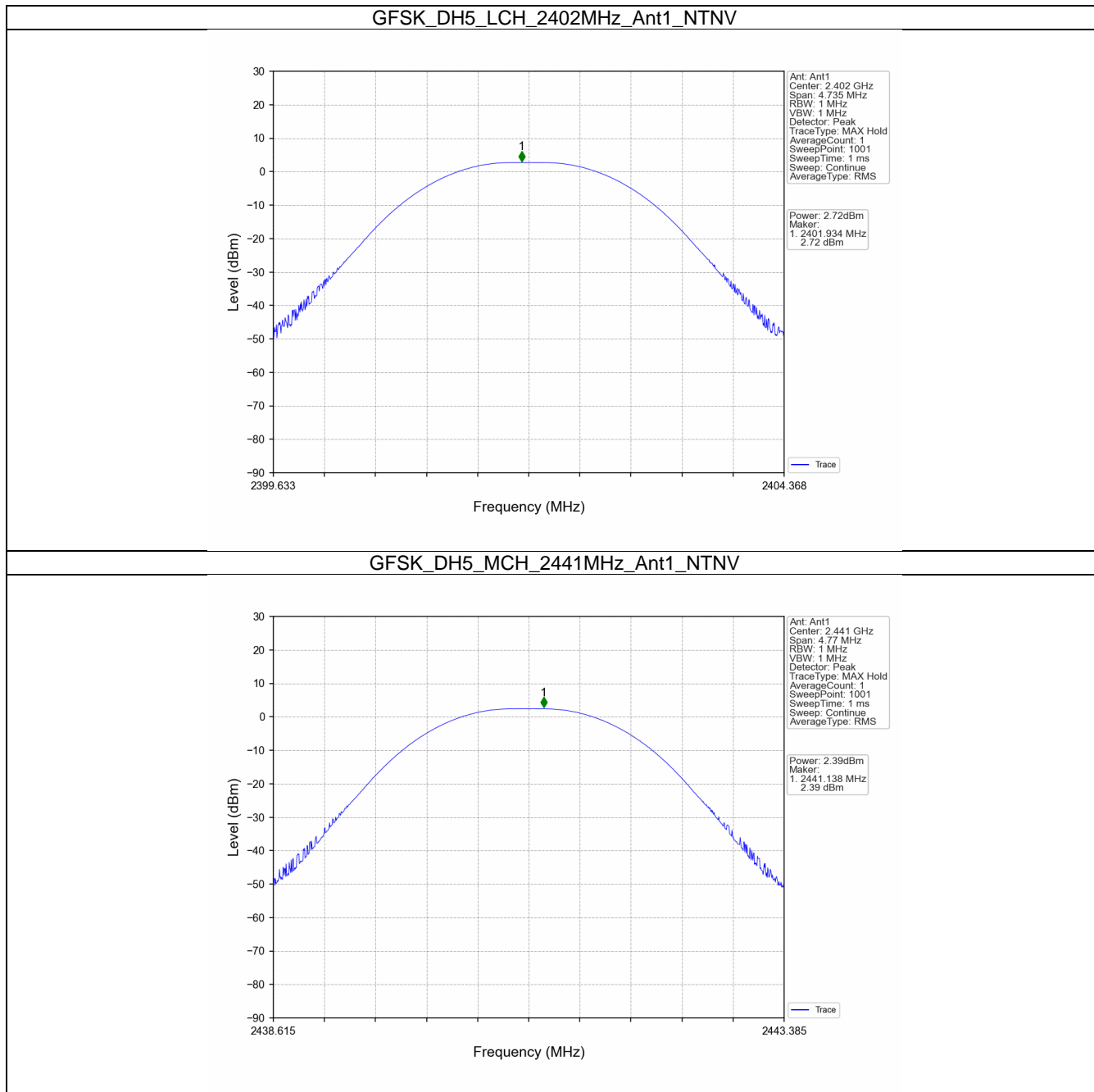
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2.1.2 Test Graph



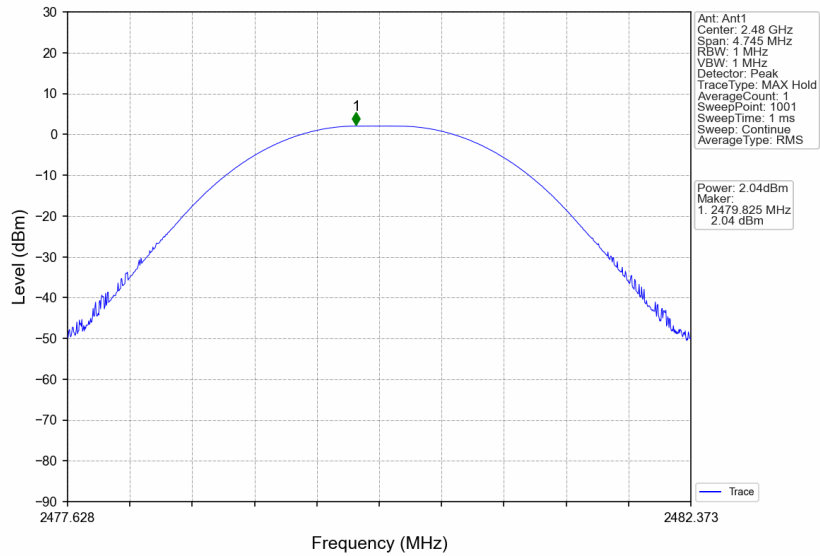
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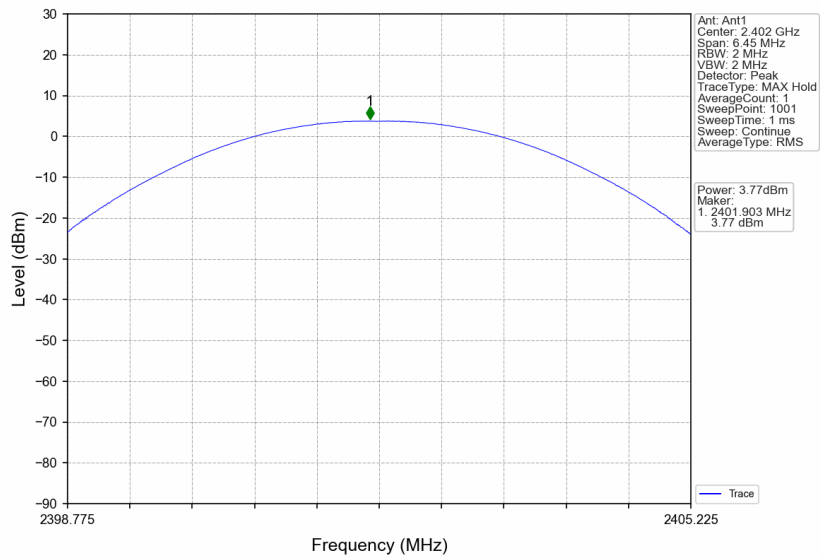
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



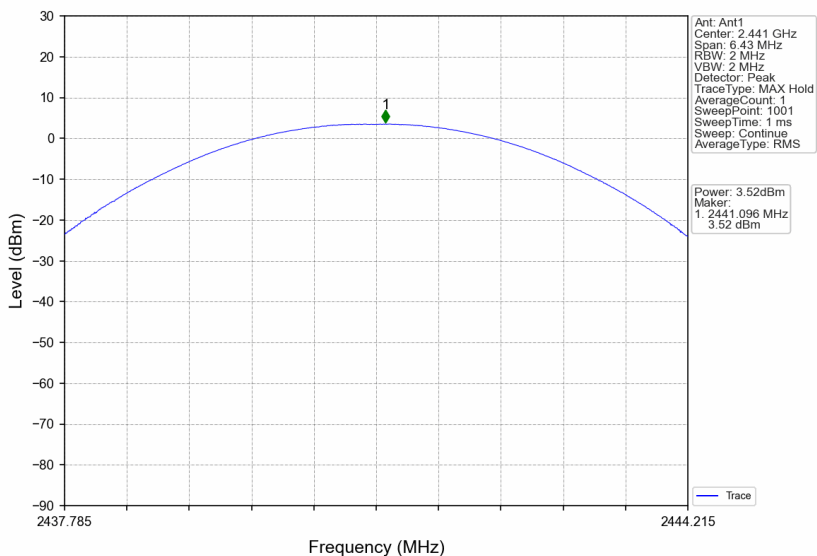
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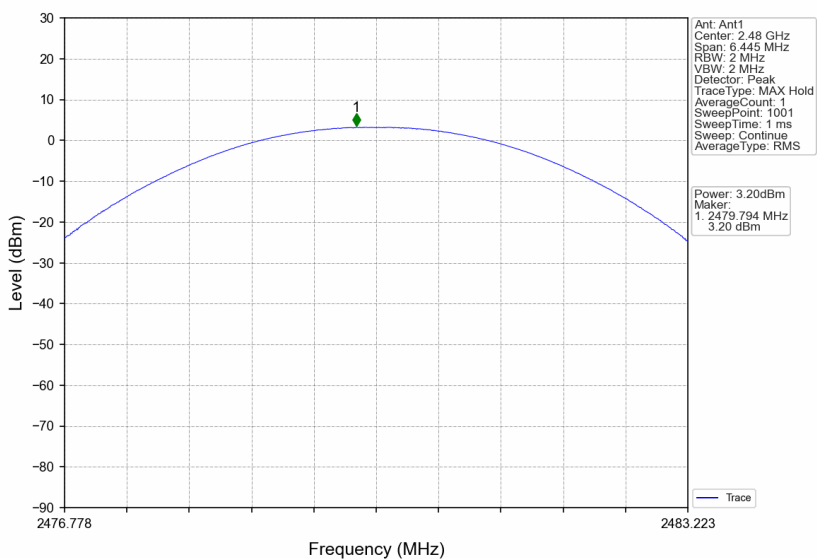
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



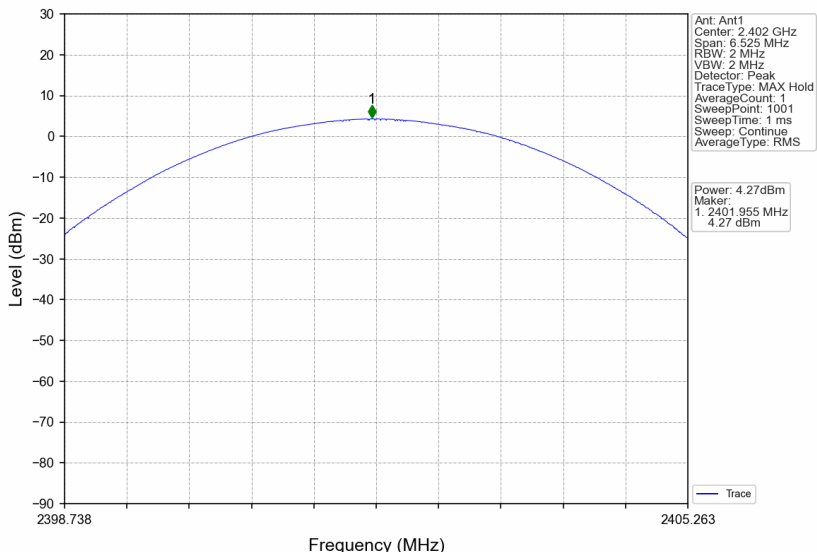
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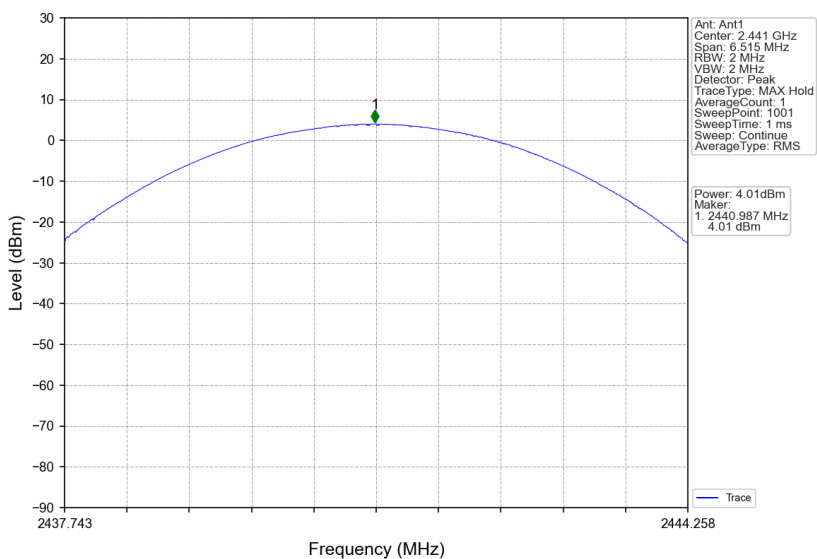
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



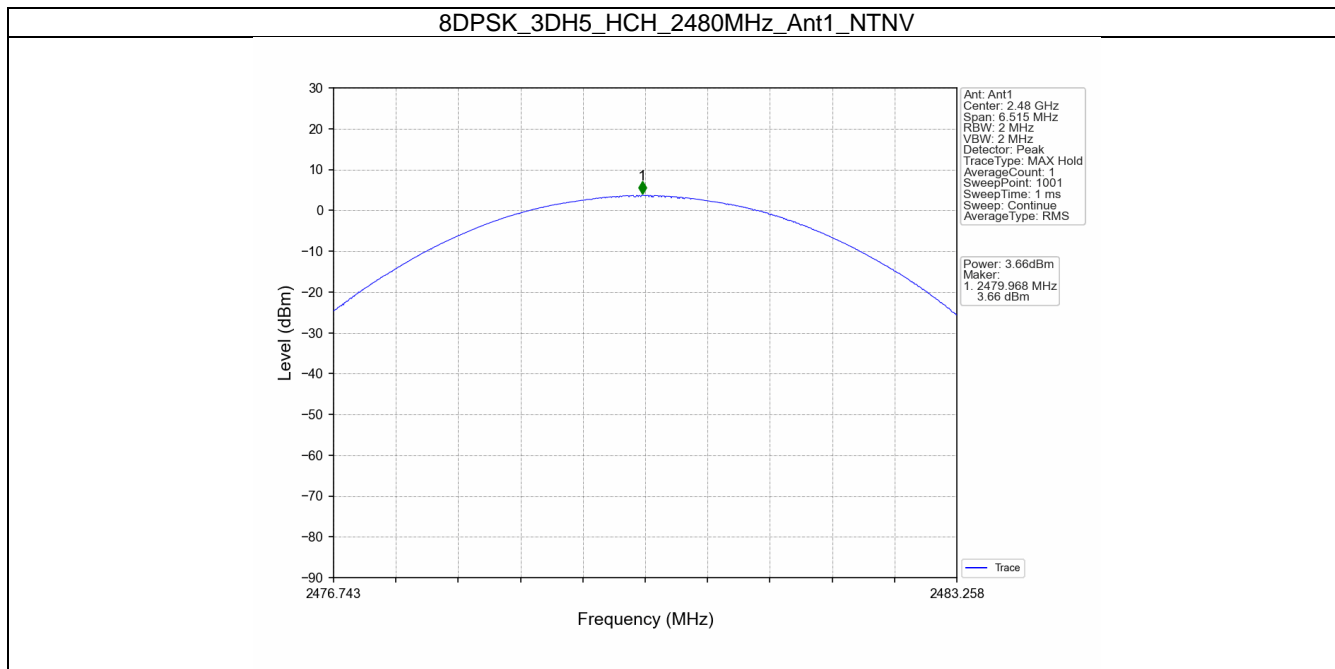
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8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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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	0.982	0.954	>=0.954	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.003	1.290	>=0.86	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.305	>=0.87	Pass

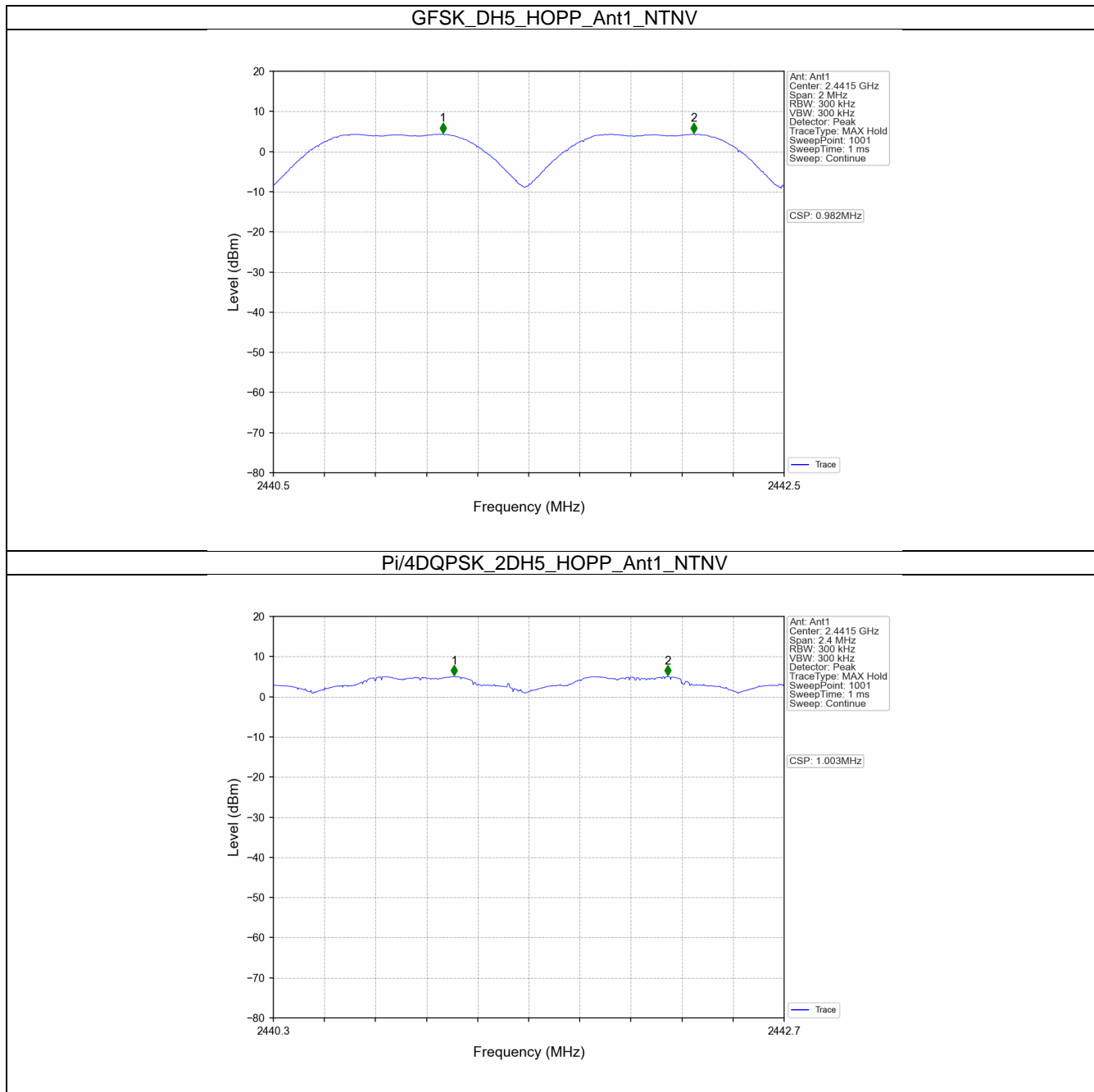


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3.1.2 Test Graph

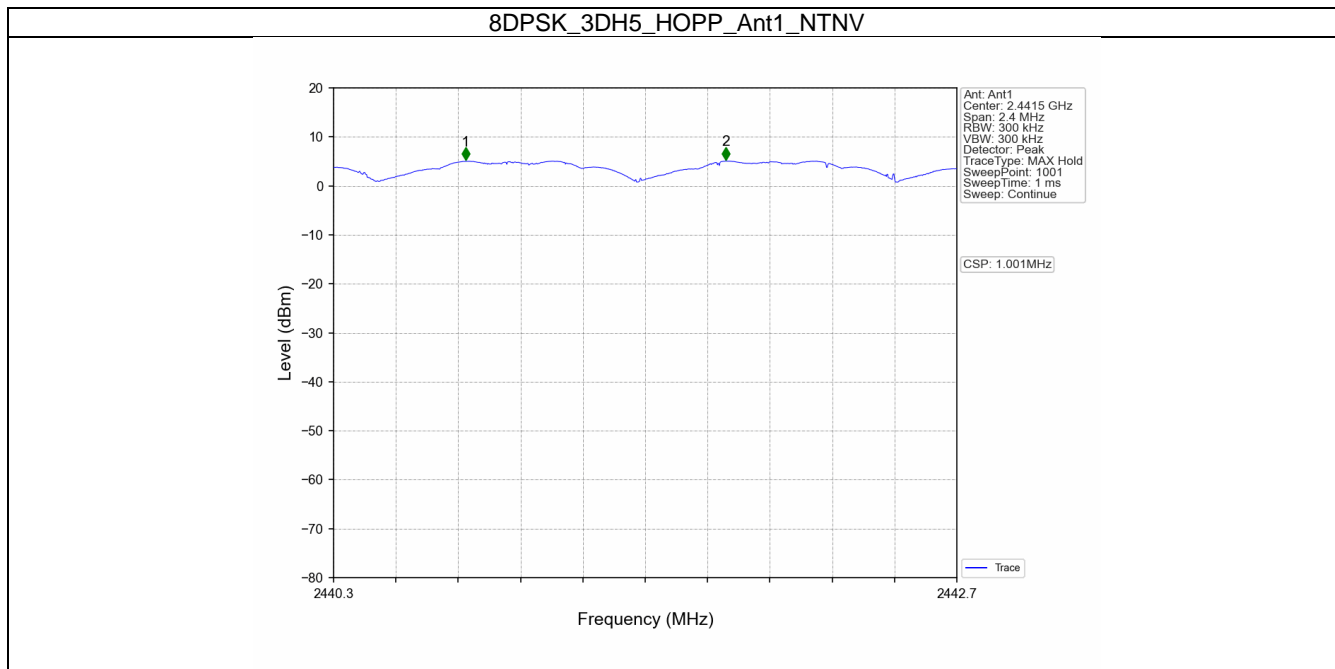


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#### 4. Number of Hopping Frequencies

##### 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	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



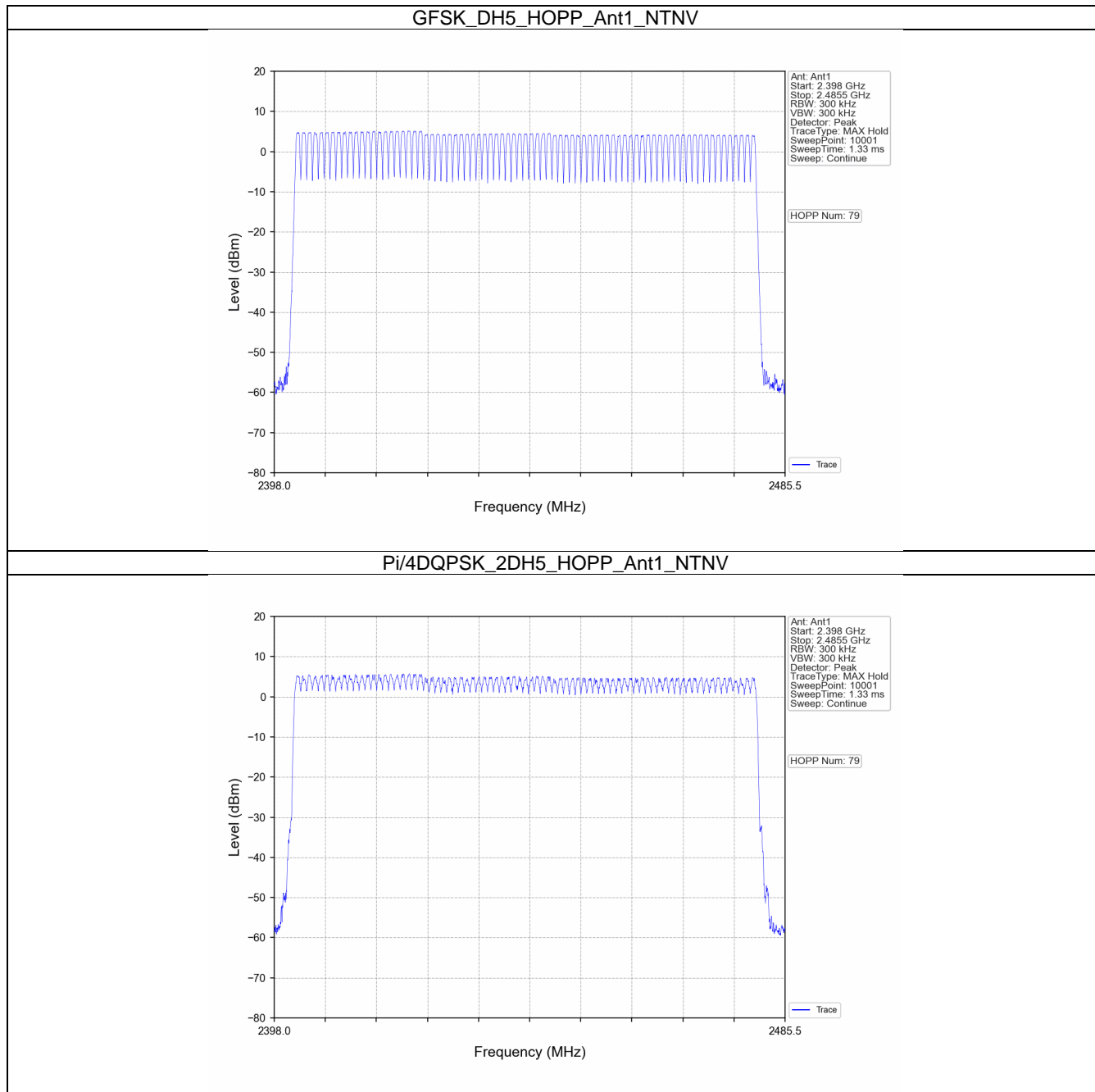
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4.1.2 Test Graph



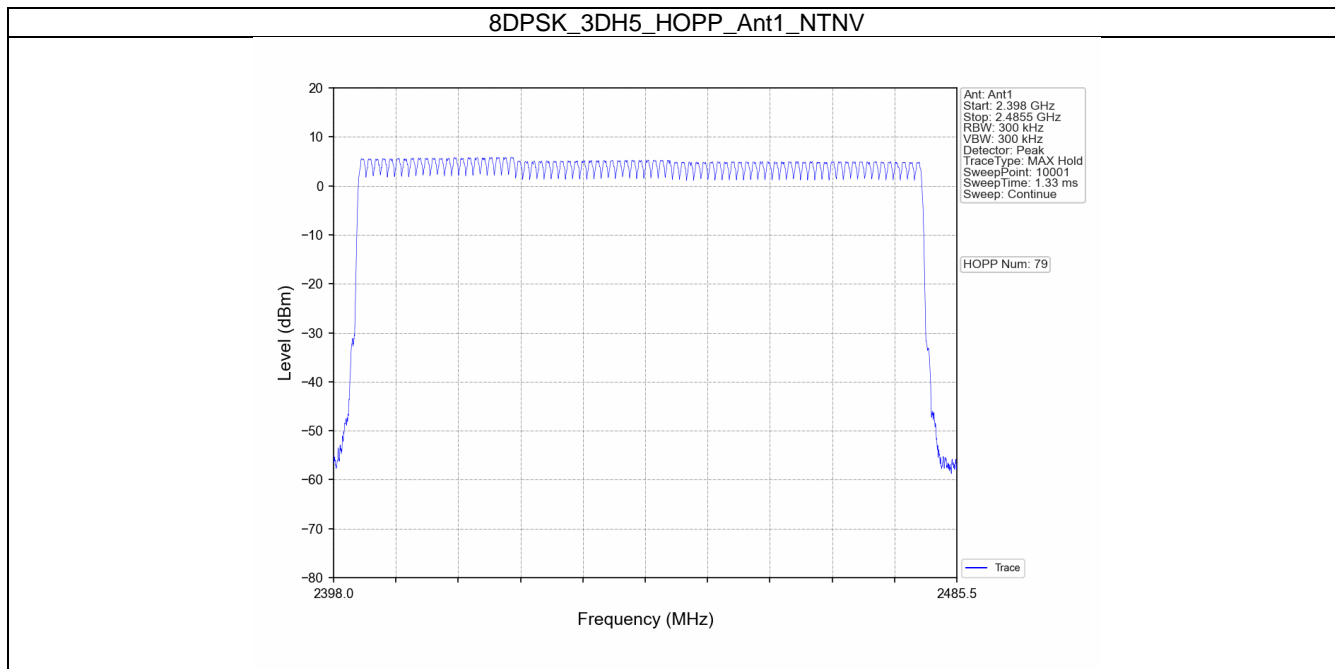
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5. Time of Occupancy (Dwell Time)

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	320	123.520	<=400	Pass
			DH3	1.644	31.600	164	269.616	<=400	Pass
			DH5	2.898	31.600	121	350.658	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.402	31.600	319	128.238	<=400	Pass
			2DH3	1.646	31.600	159	261.714	<=400	Pass
			2DH5	2.904	31.600	111	322.344	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.656	31.600	157	259.992	<=400	Pass
			3DH5	2.898	31.600	109	315.882	<=400	Pass

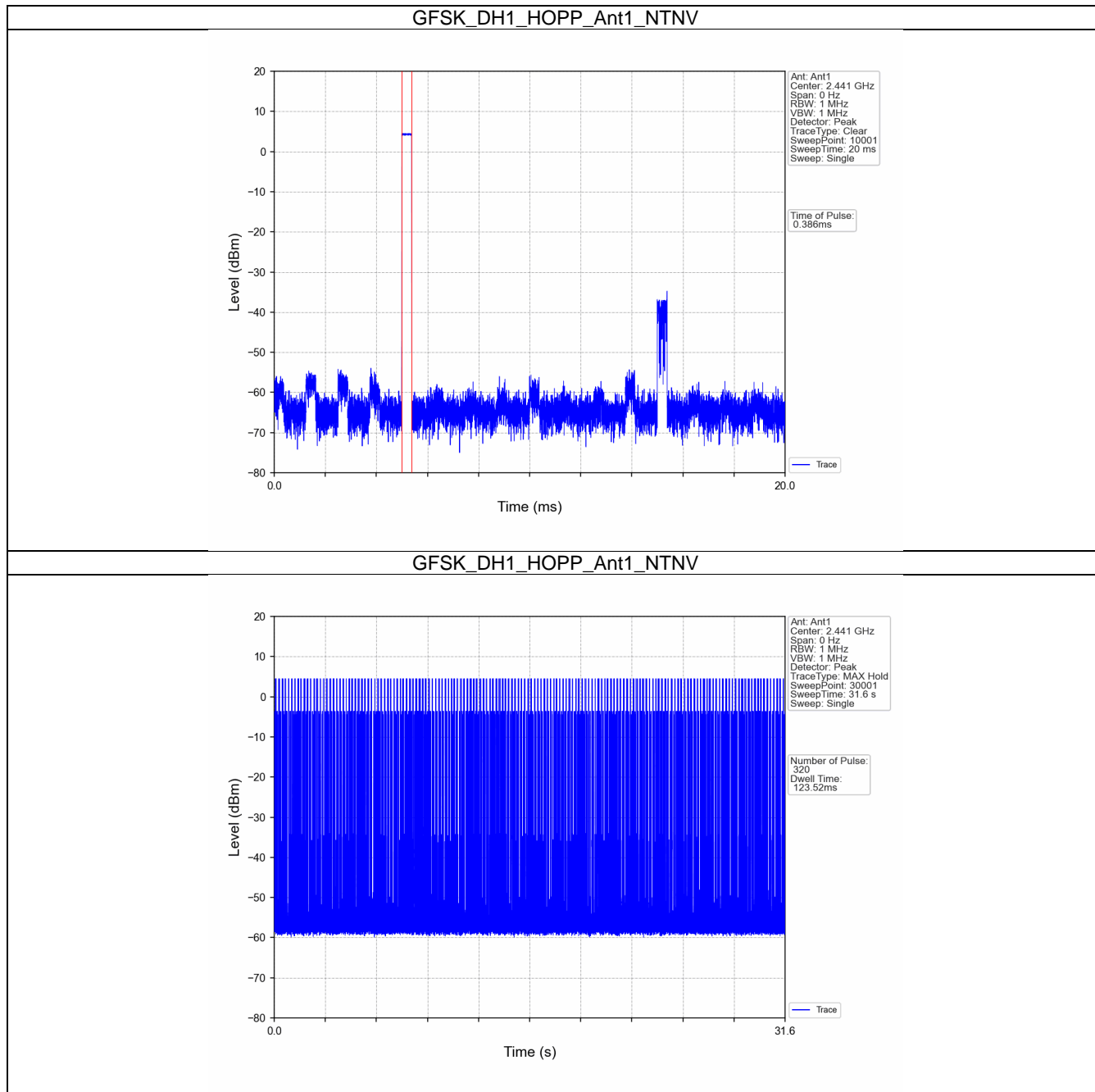


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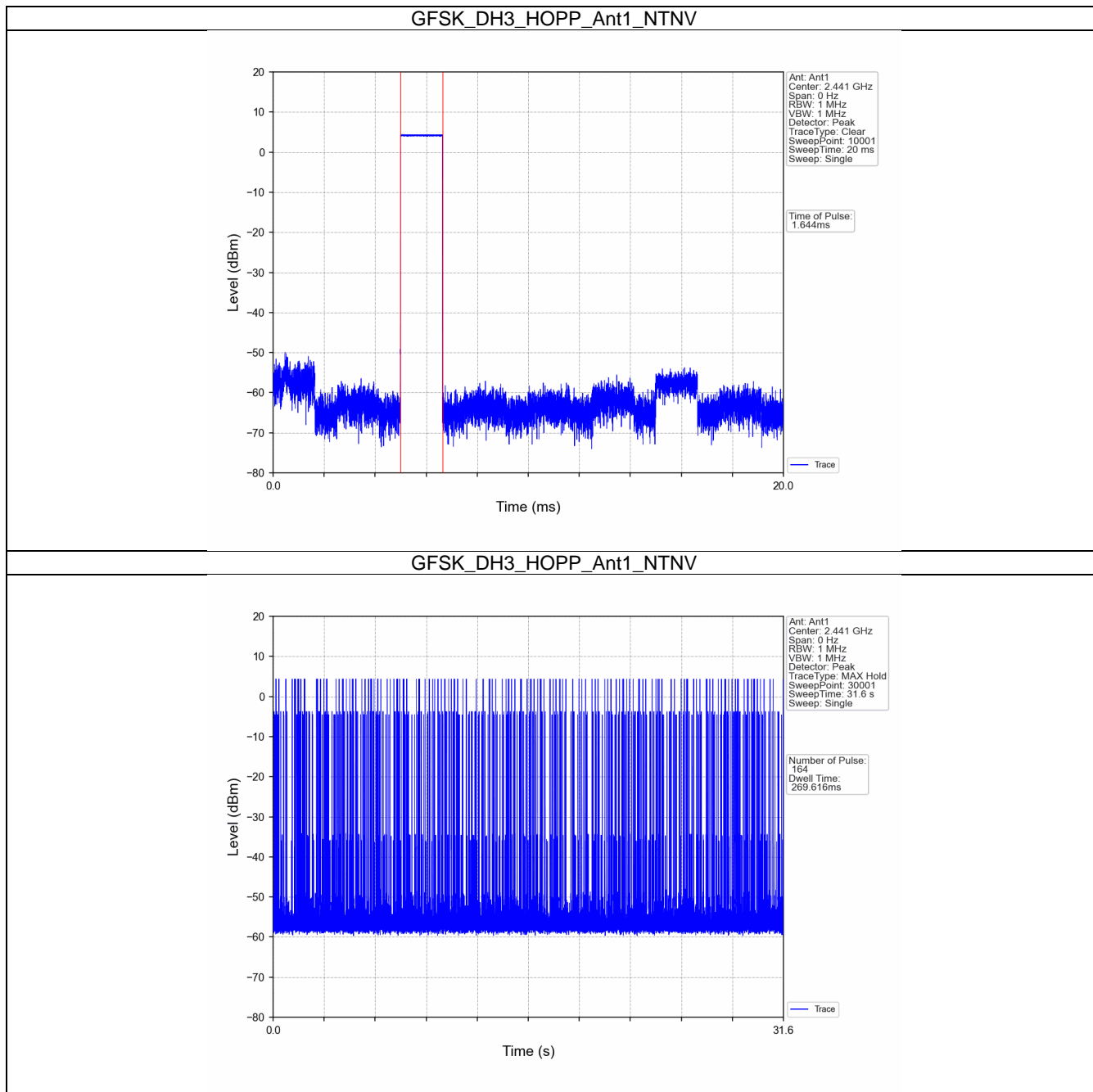
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5.1.2 Test Graph



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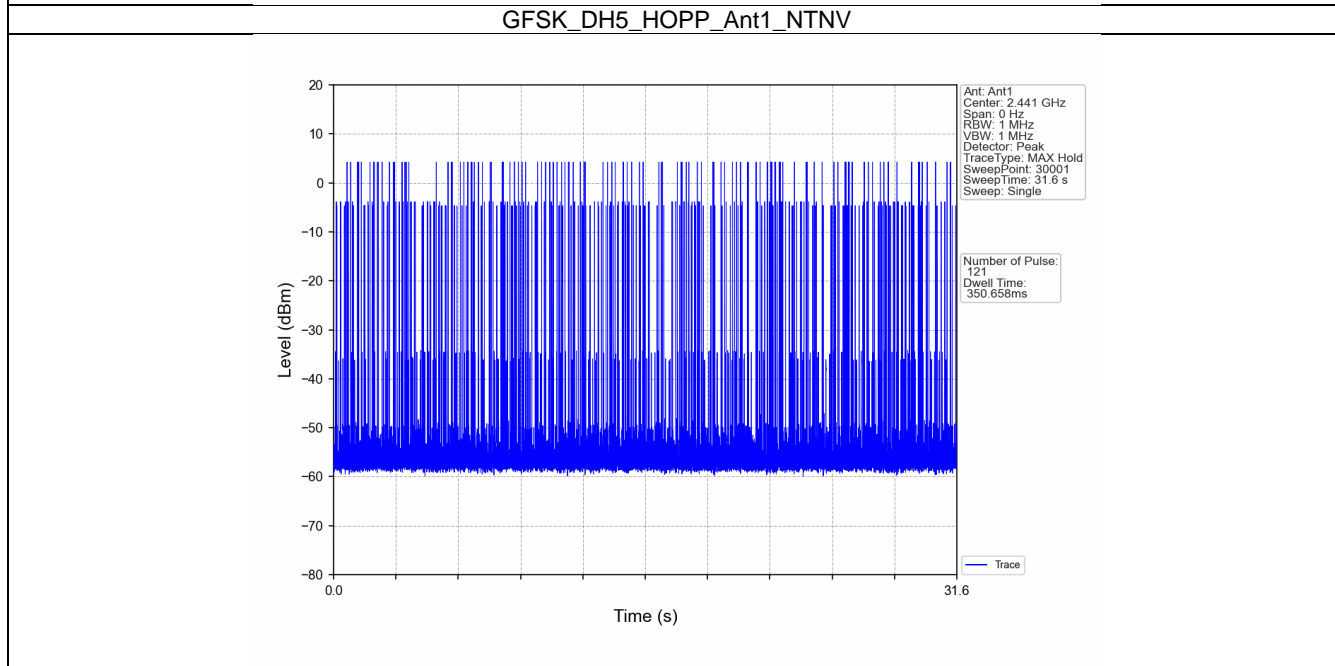
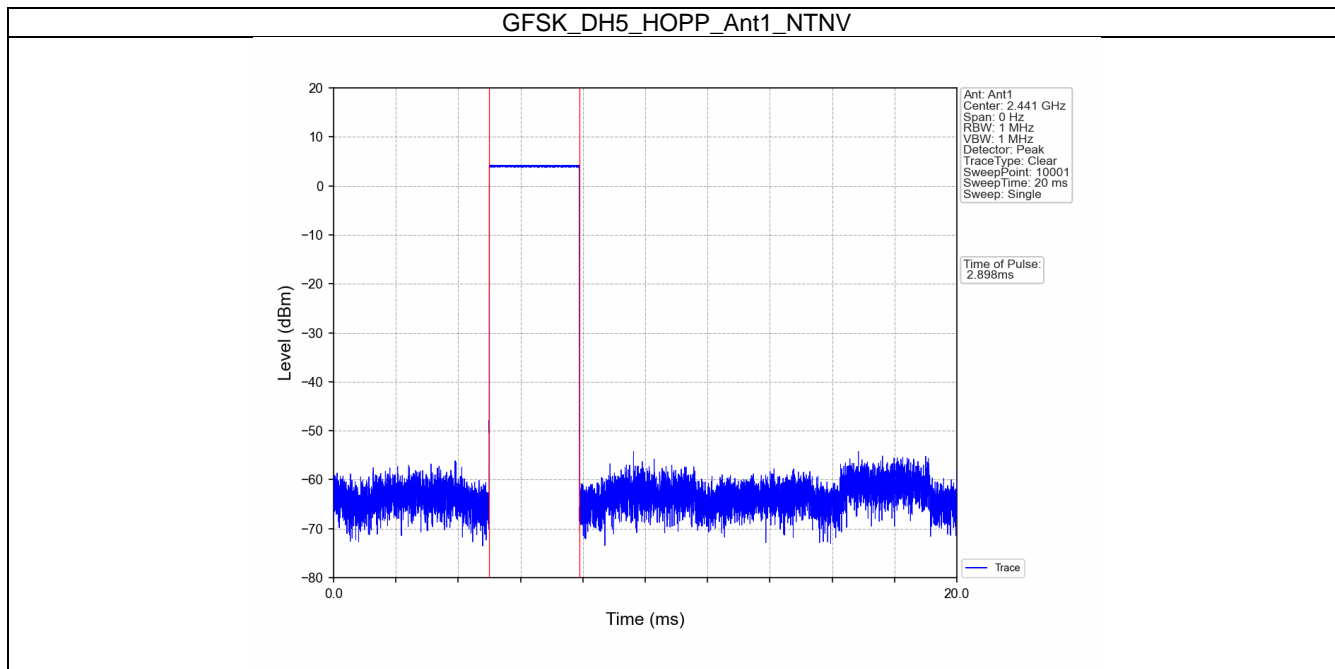
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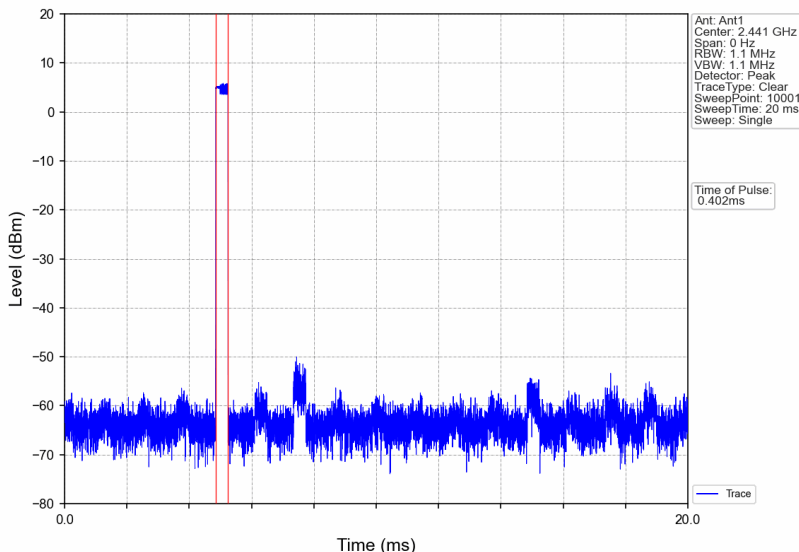


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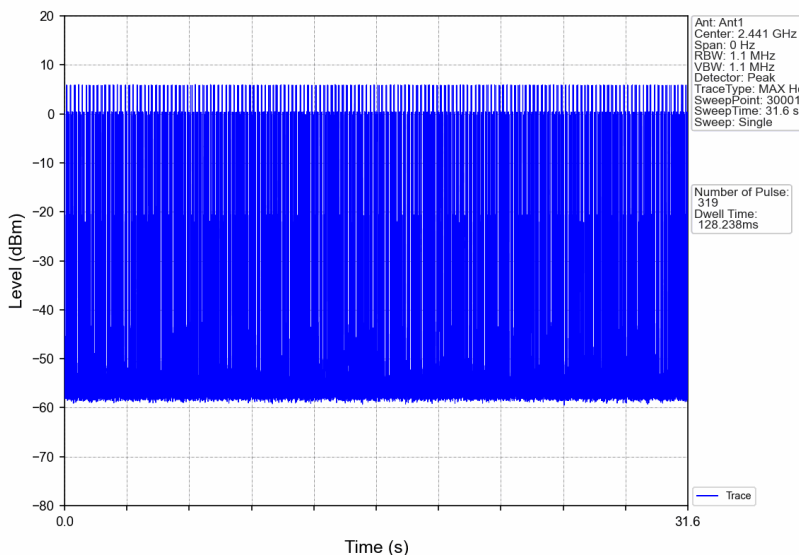
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Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



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



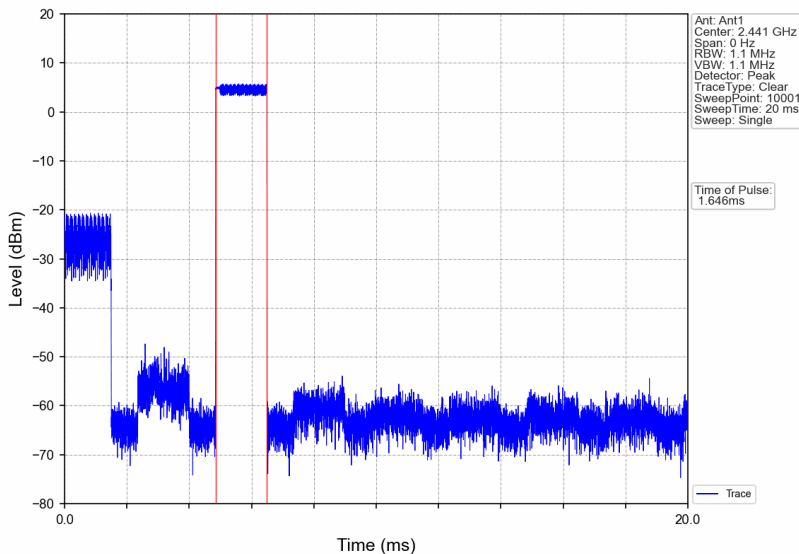
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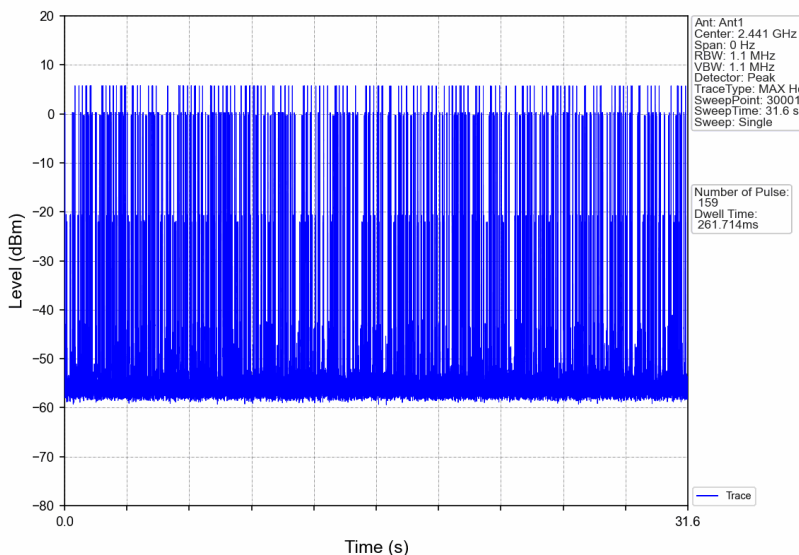
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Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



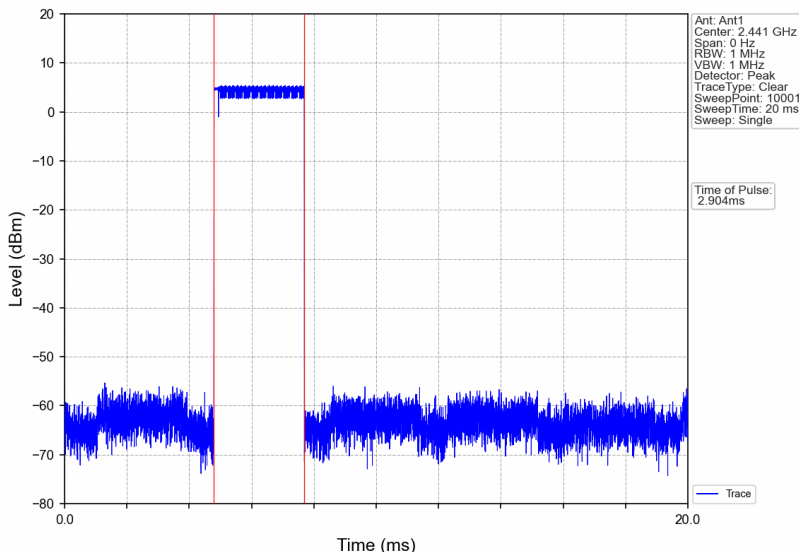
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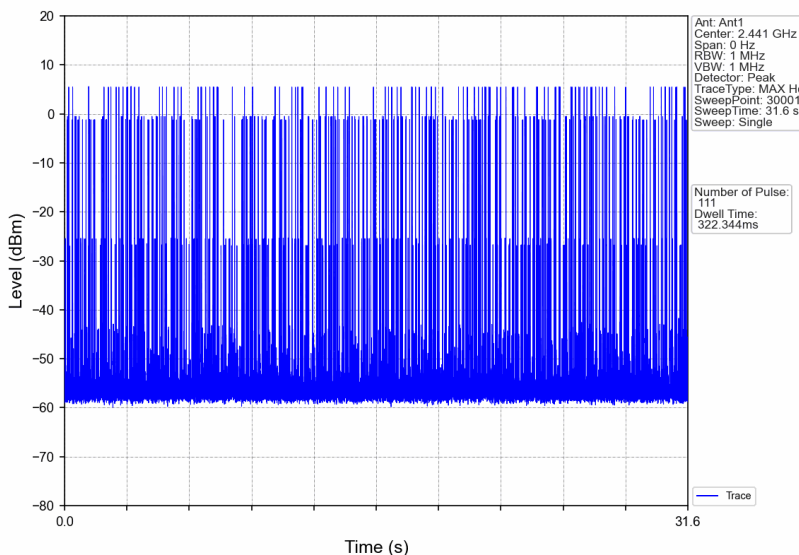
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Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

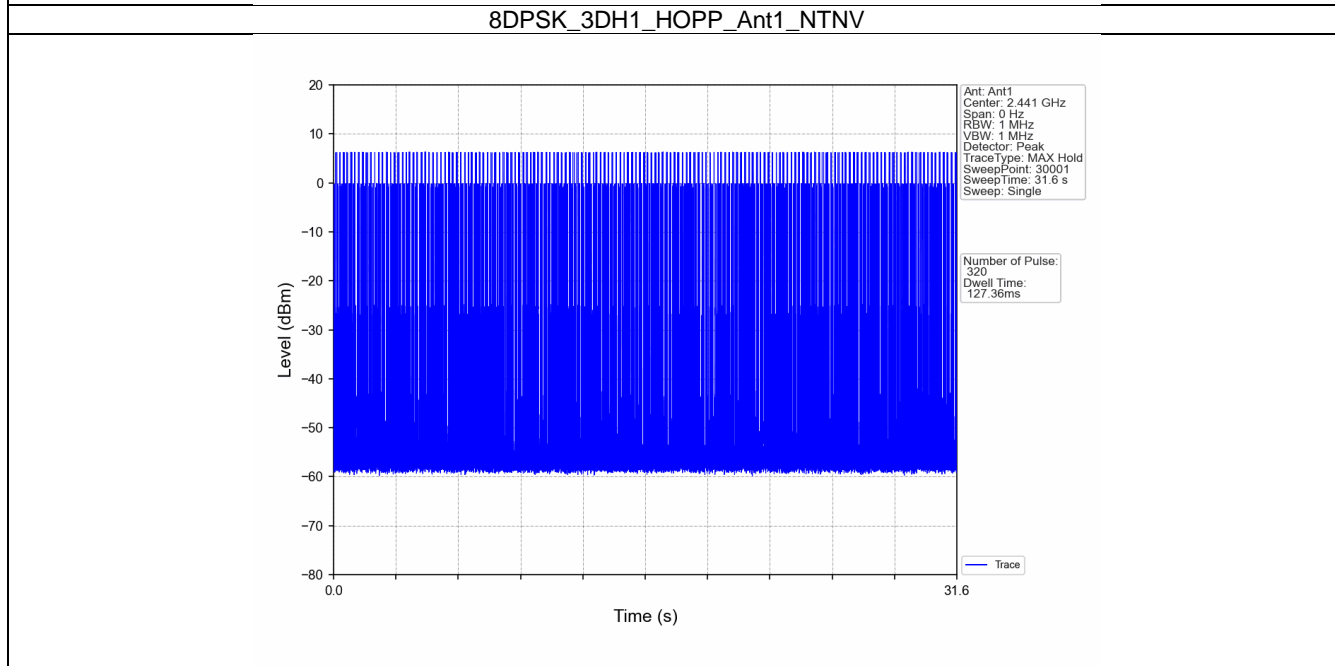
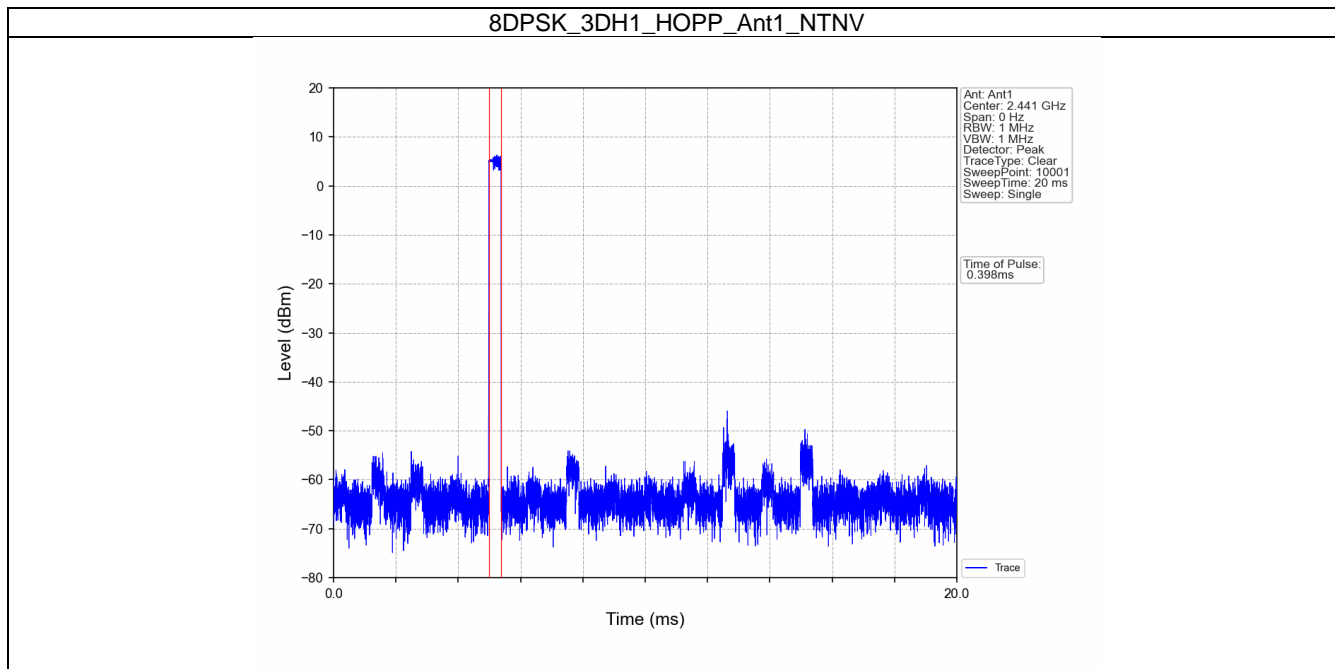


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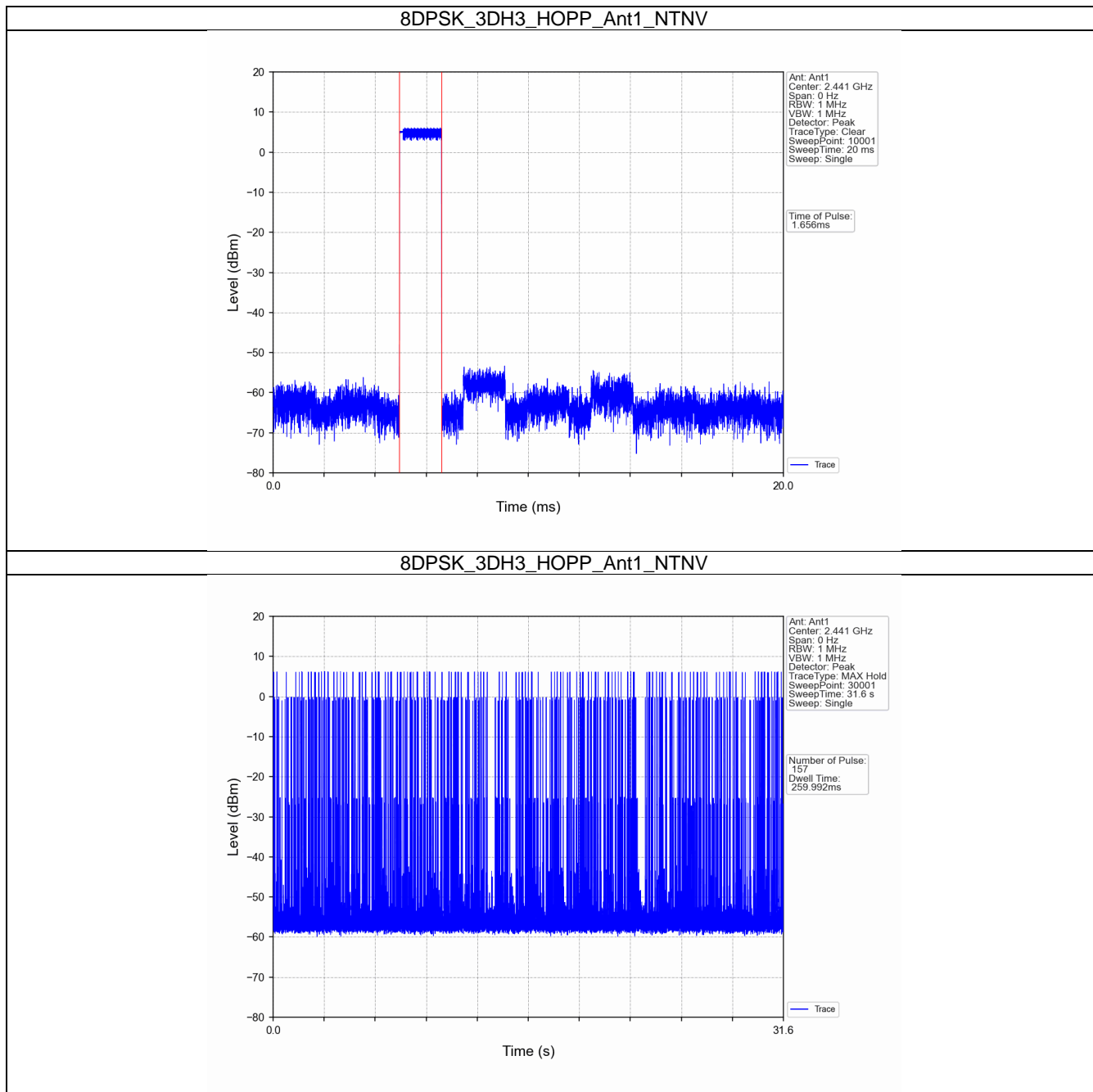
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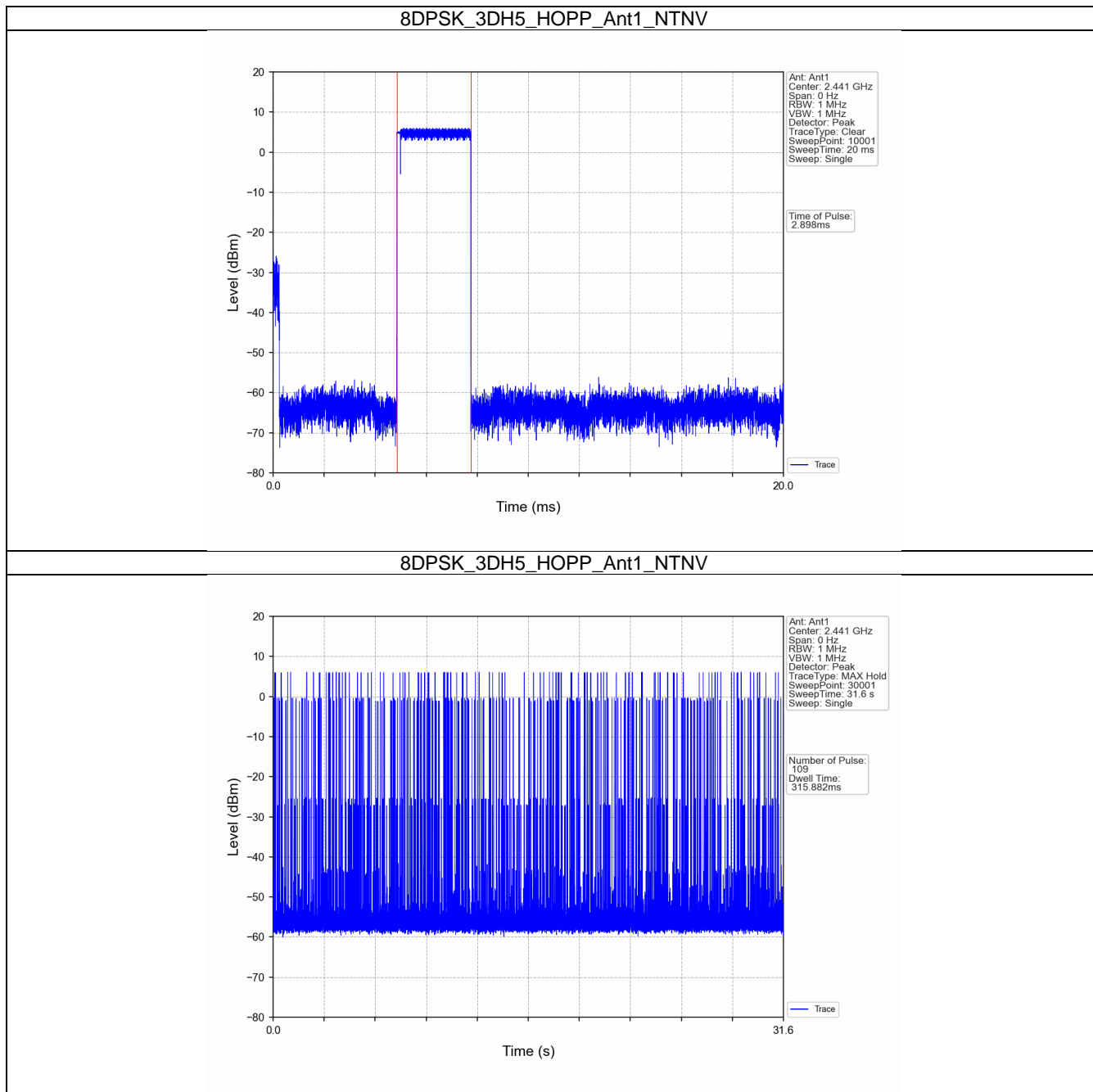


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## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 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	2.65
		2441	DH5	1	2.30
		2480	DH5	1	1.93
Pi/4DQPSK	SISO	2402	2DH5	1	2.44
		2441	2DH5	1	2.17
		2480	2DH5	1	1.76
8DPSK	SISO	2402	3DH5	1	2.48
		2441	3DH5	1	2.13
		2480	3DH5	1	1.70

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: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



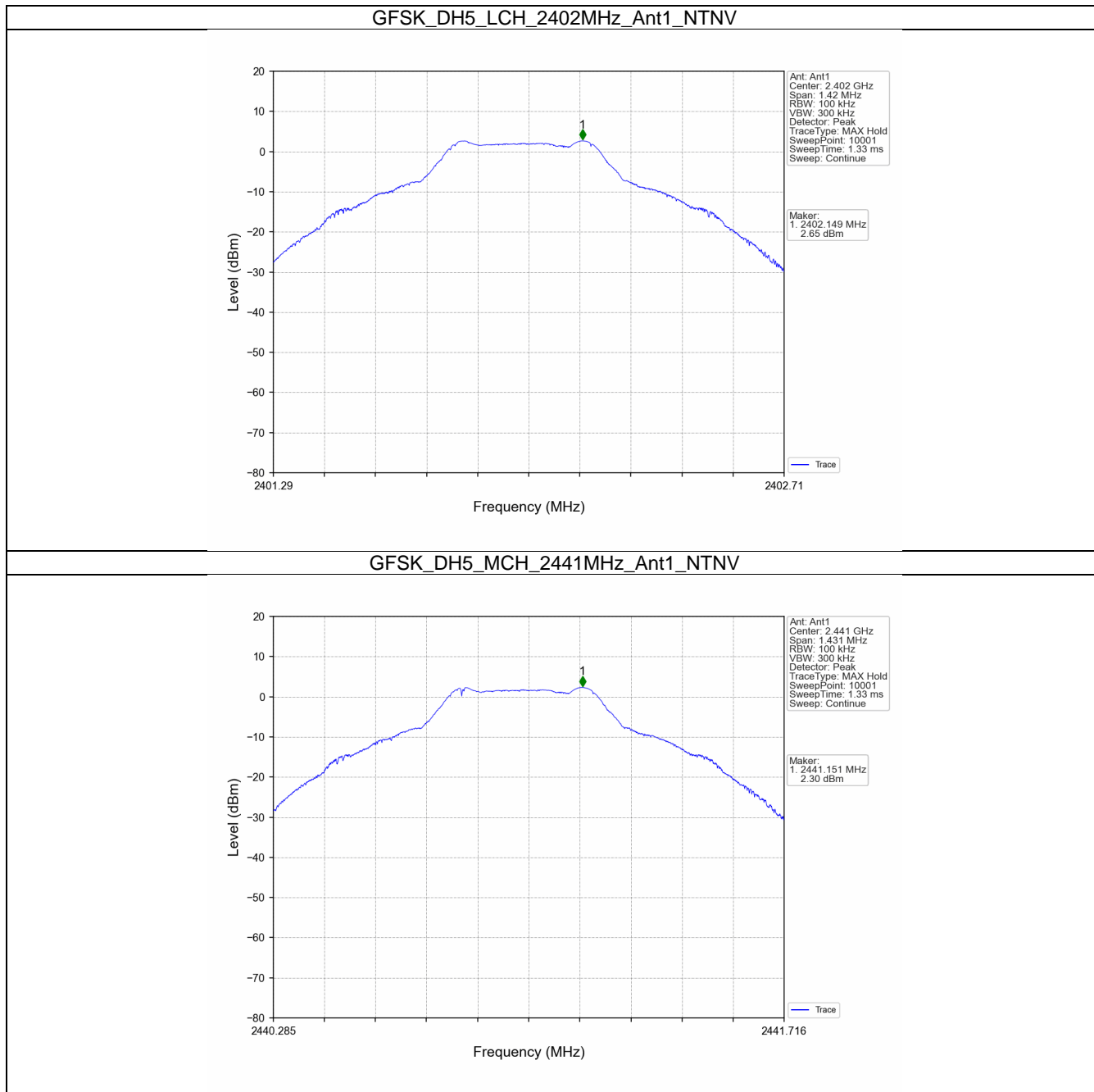
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6.1.2 Test Graph



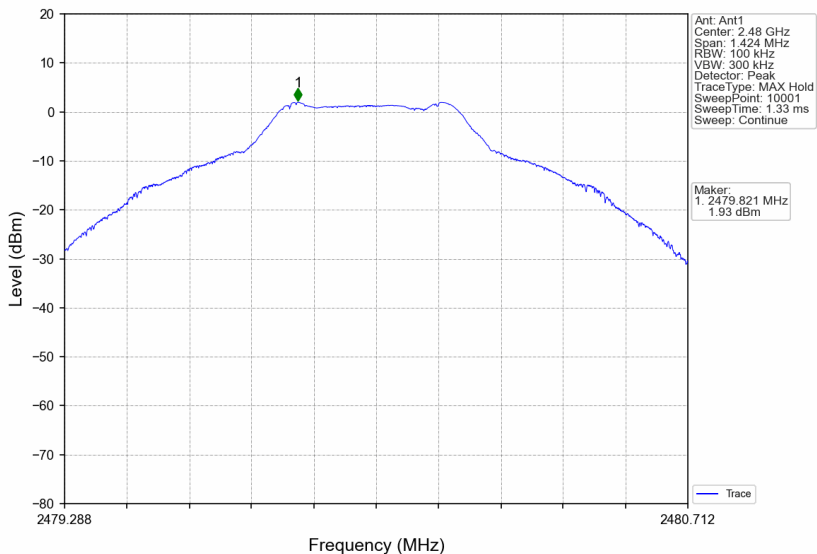
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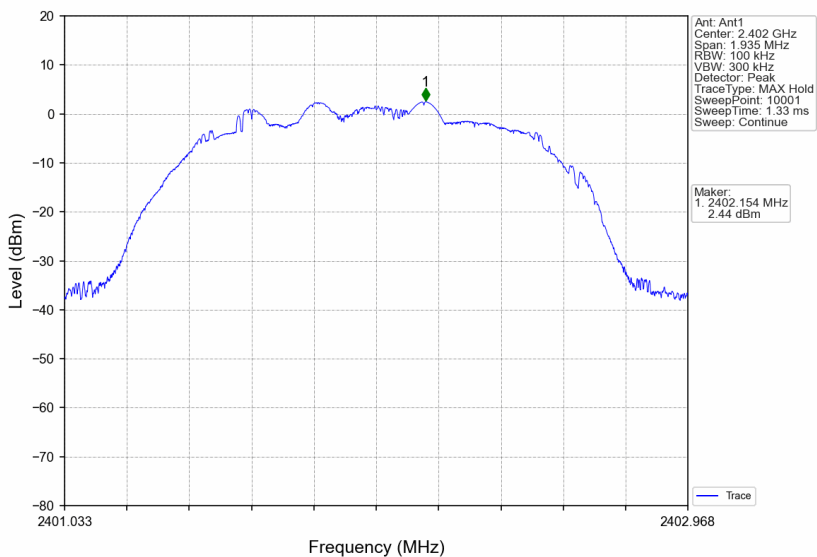
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



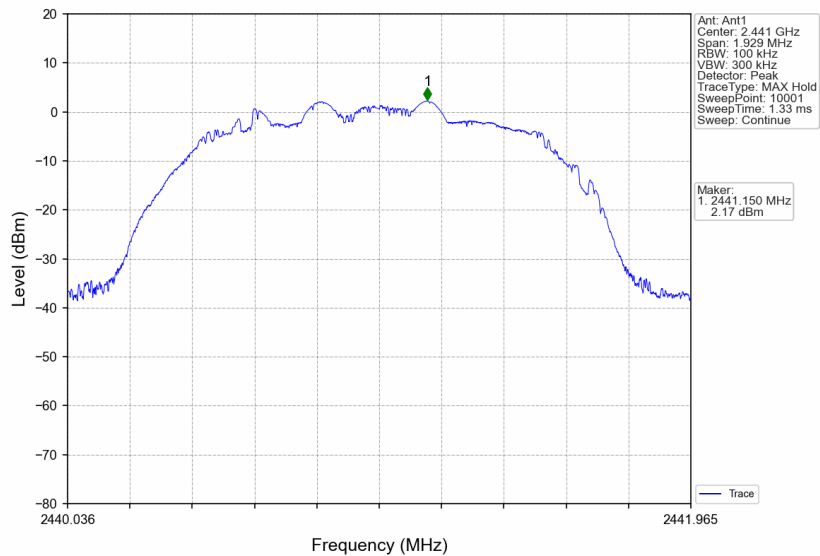
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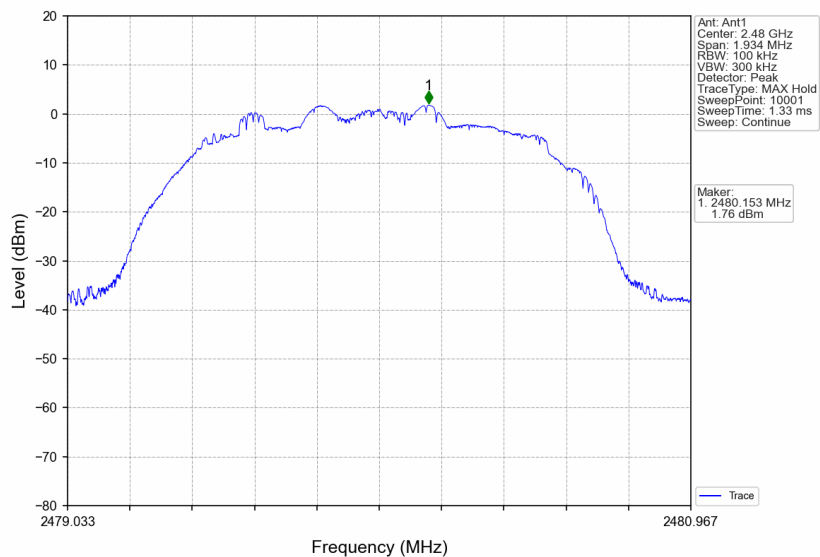
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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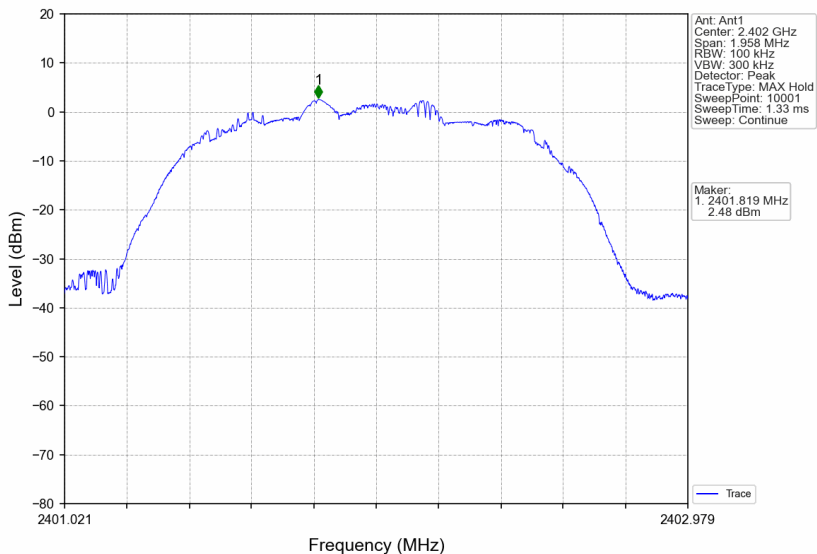
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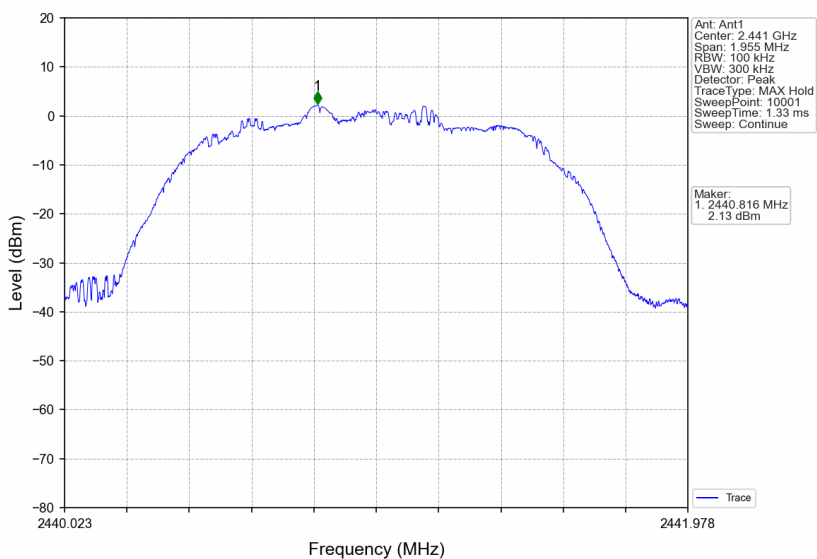
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



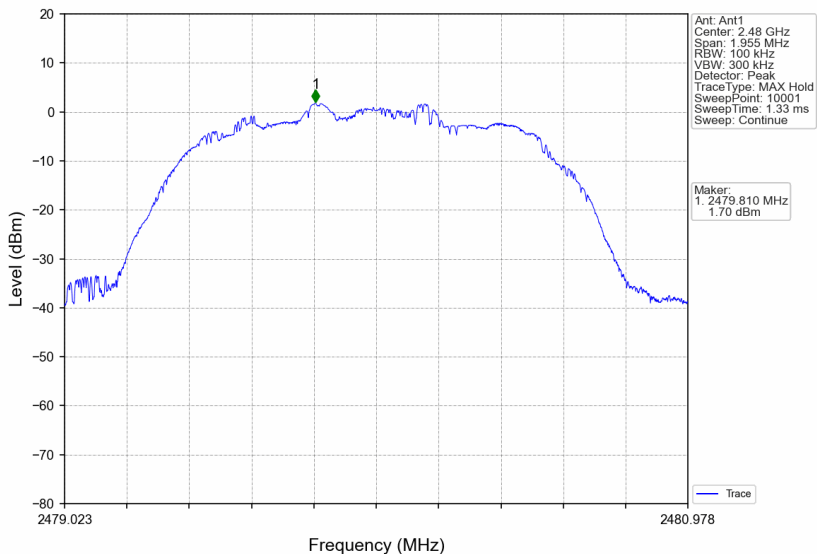
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6.2 CSE

6.2.1 Test Result

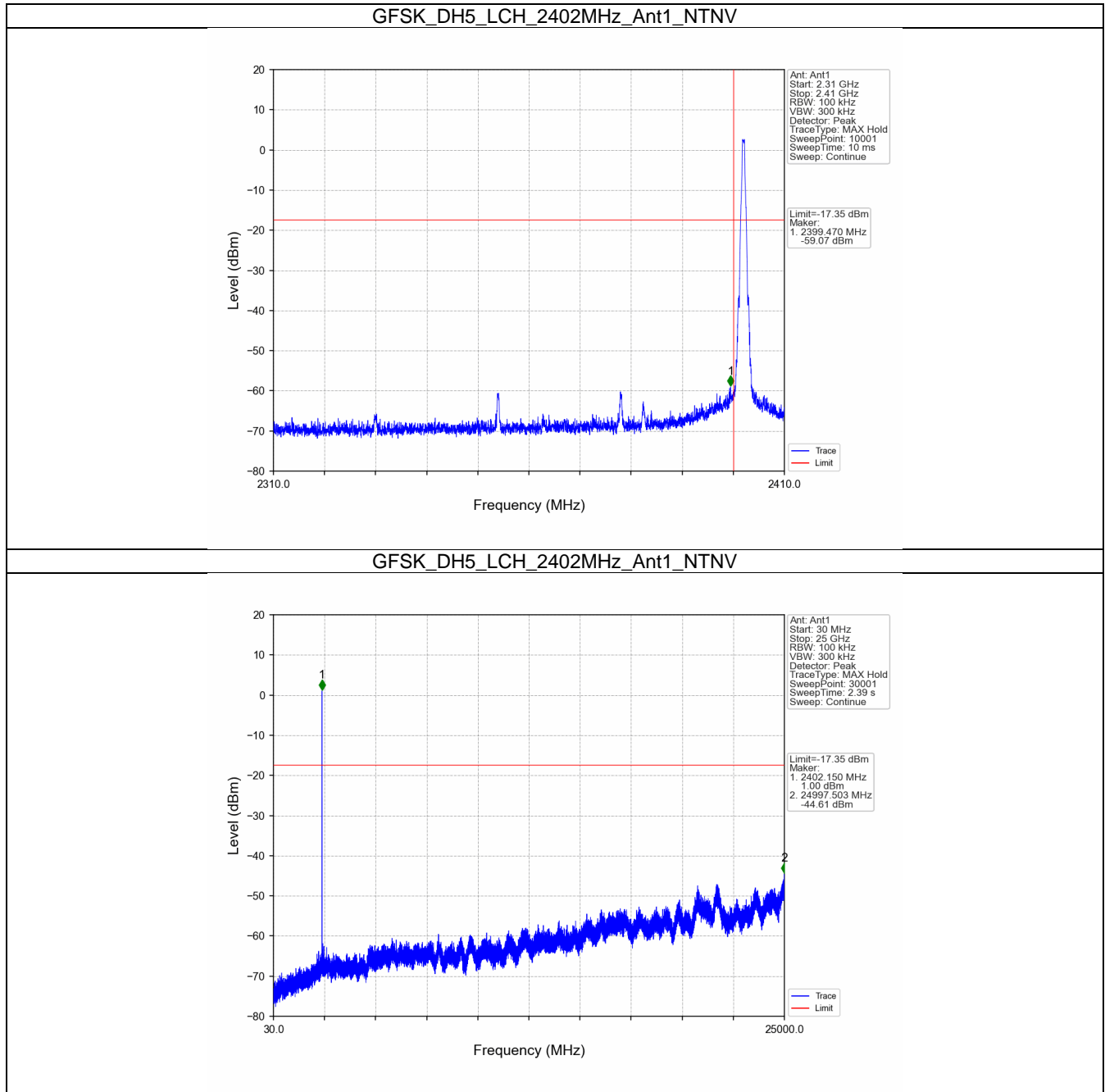
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.65	-17.35	Pass
		2441	DH5	1	2.65	-17.35	Pass
		2480	DH5	1	2.65	-17.35	Pass
		HOPP	DH5	1	2.65	-17.35	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.44	-17.56	Pass
		2441	2DH5	1	2.44	-17.56	Pass
		2480	2DH5	1	2.44	-17.56	Pass
		HOPP	2DH5	1	2.44	-17.56	Pass
8DPSK	SISO	2402	3DH5	1	2.48	-17.52	Pass
		2441	3DH5	1	2.48	-17.52	Pass
		2480	3DH5	1	2.48	-17.52	Pass
		HOPP	3DH5	1	2.48	-17.52	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.  
 Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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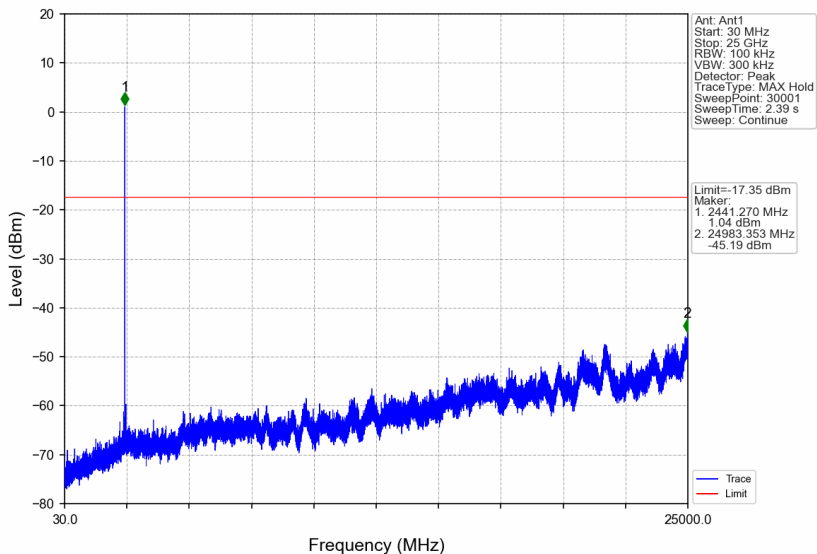
6.2.2 Test Graph



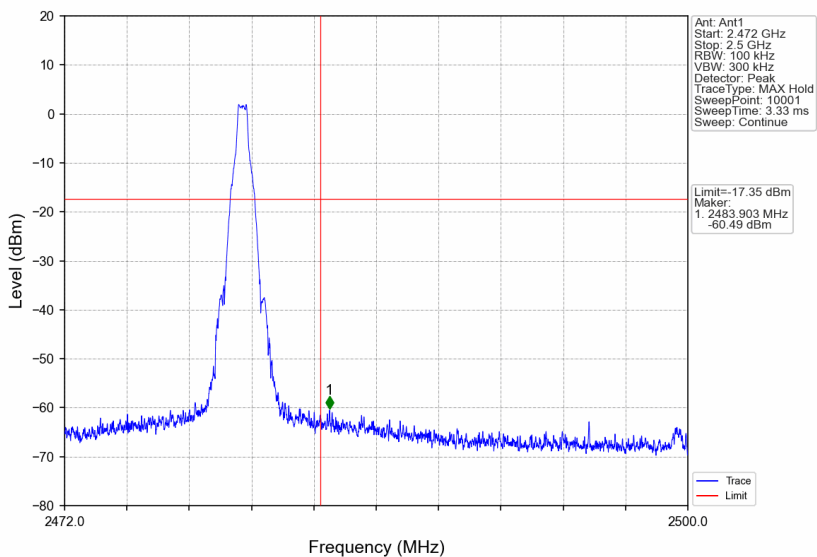
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GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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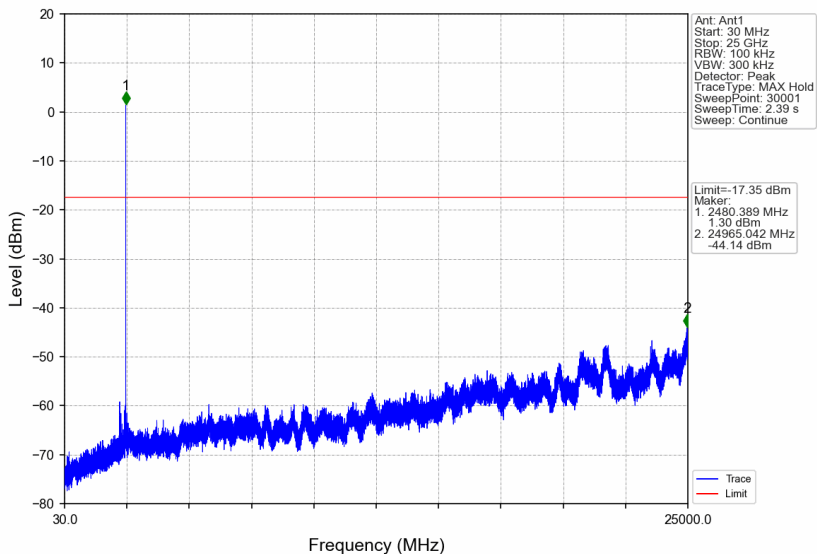
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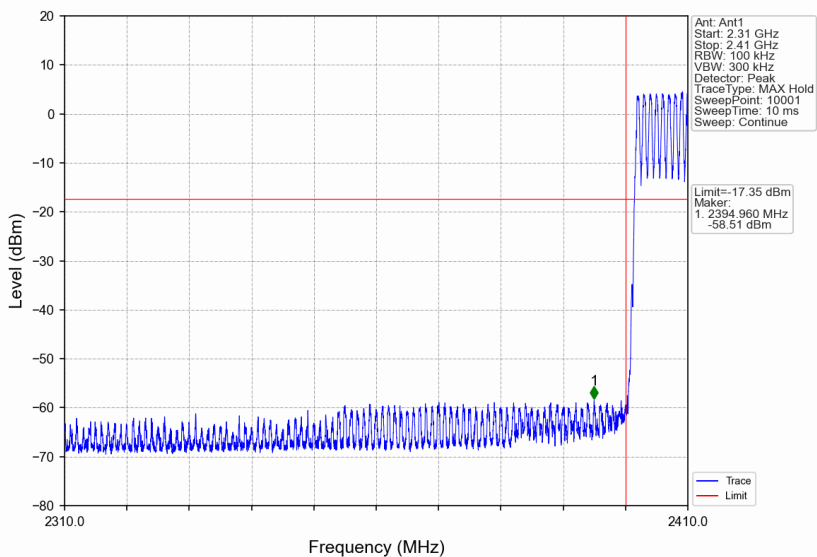
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



GFSK\_DH5\_HOPP\_Ant1\_NTNV

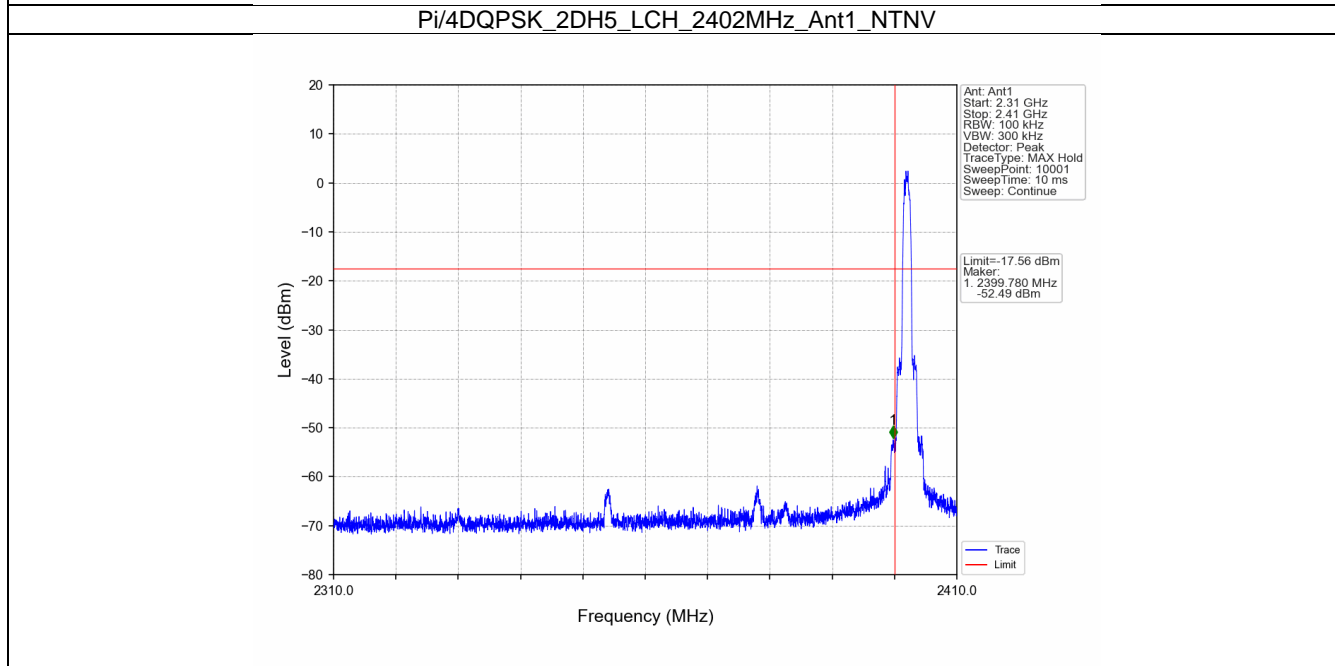
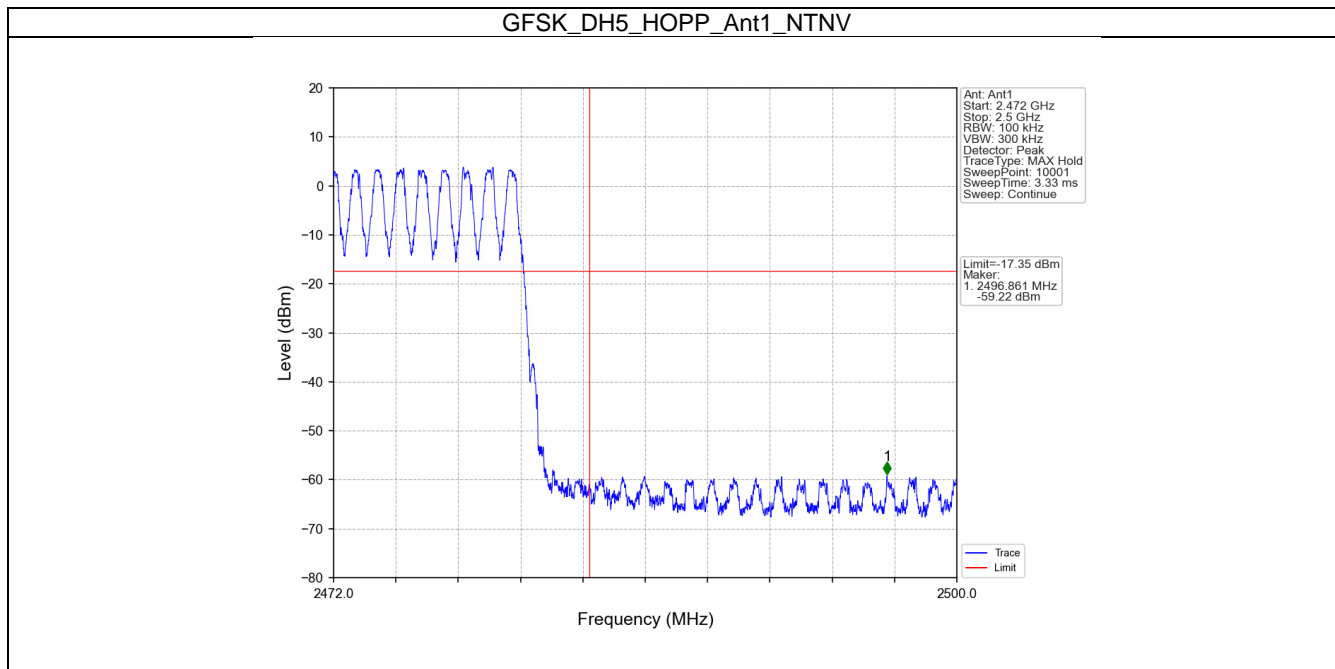


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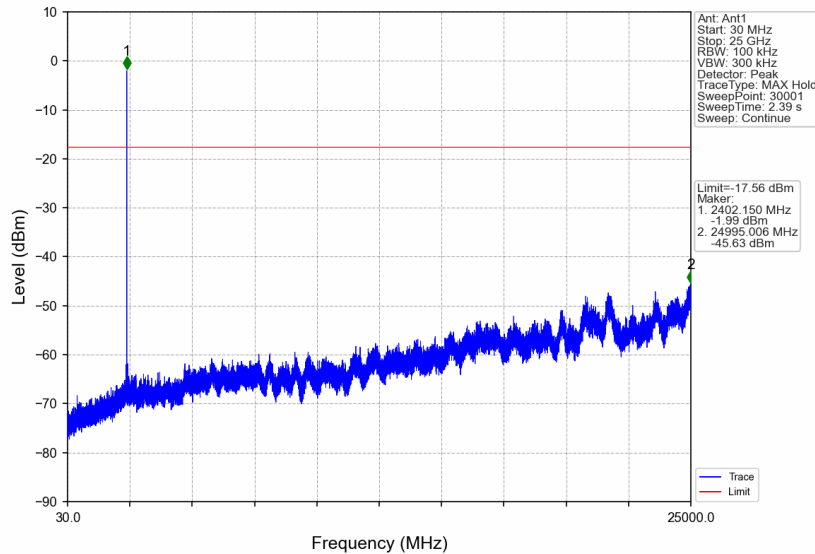
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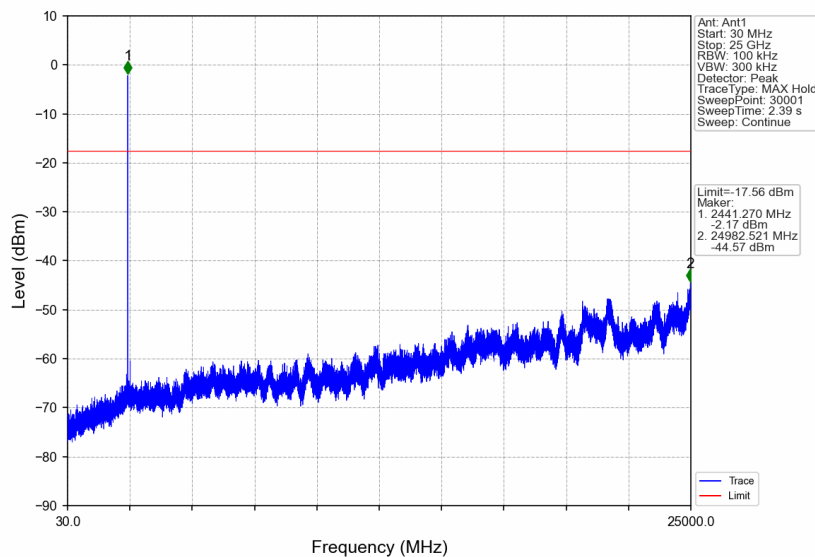
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



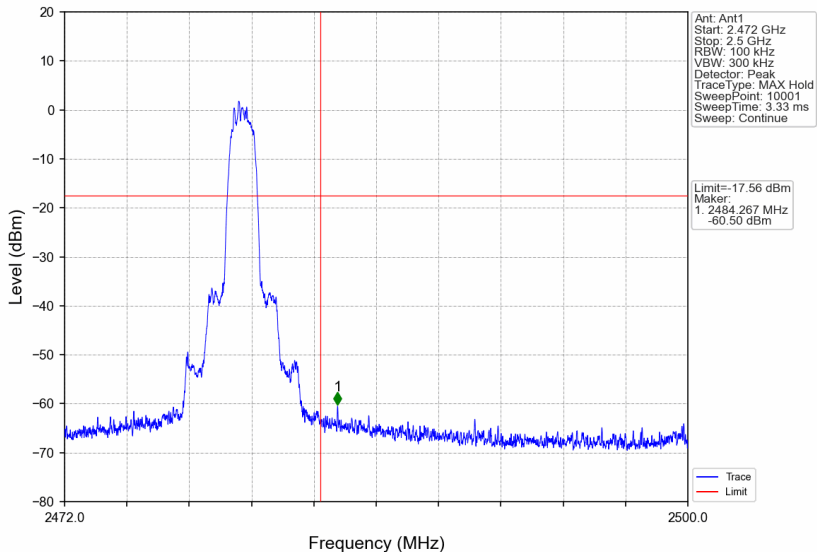
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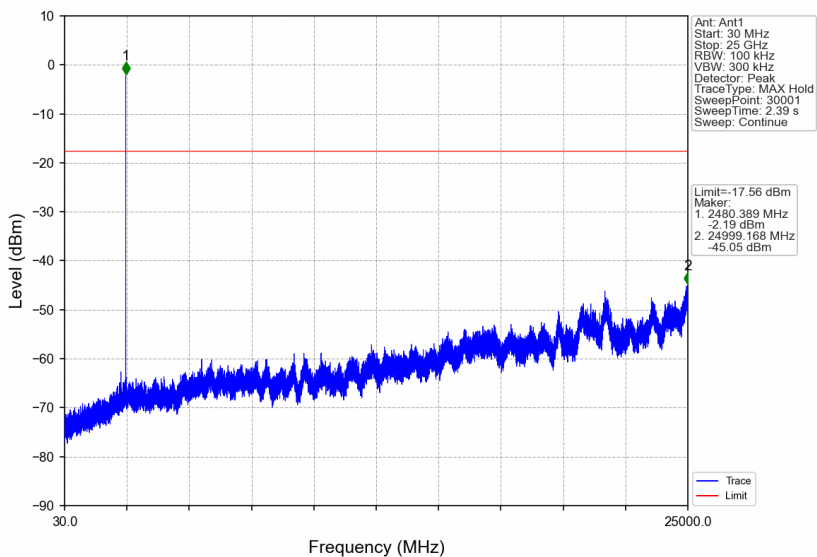
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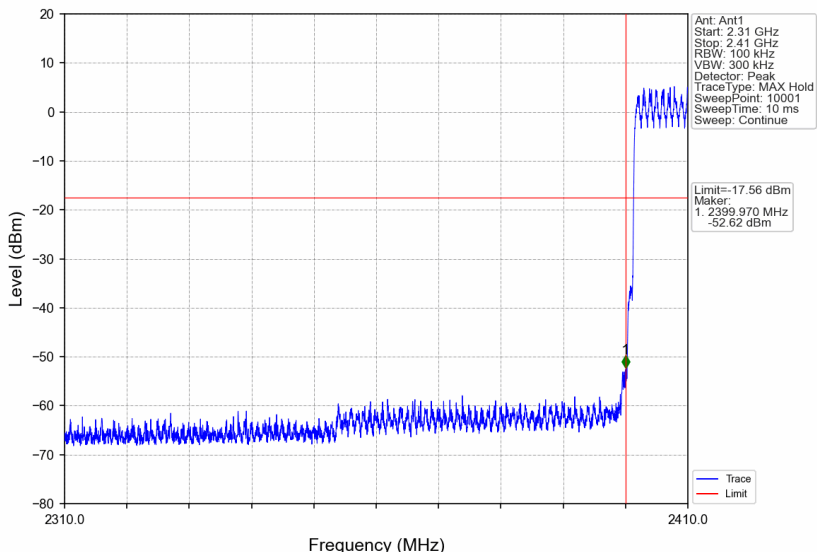
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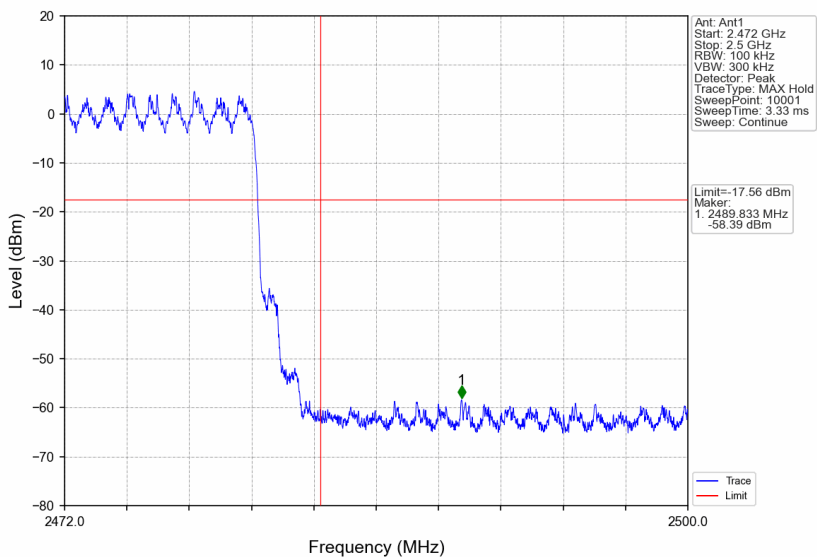
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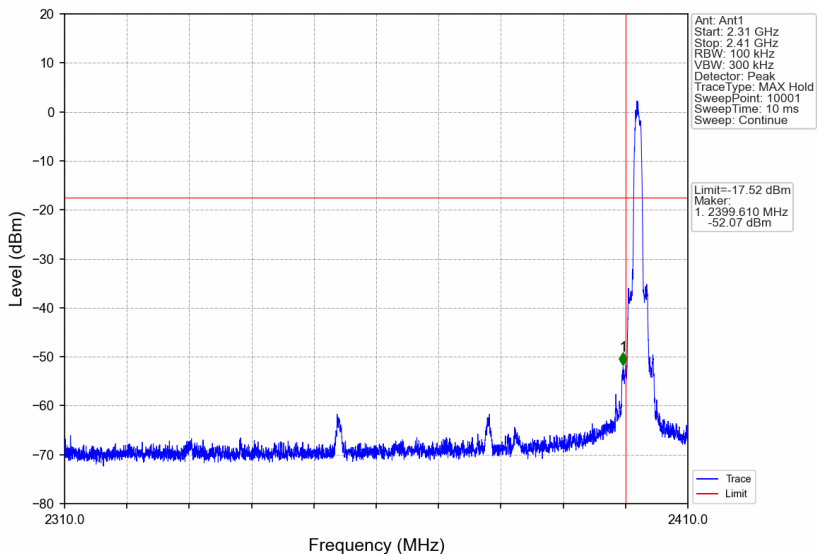
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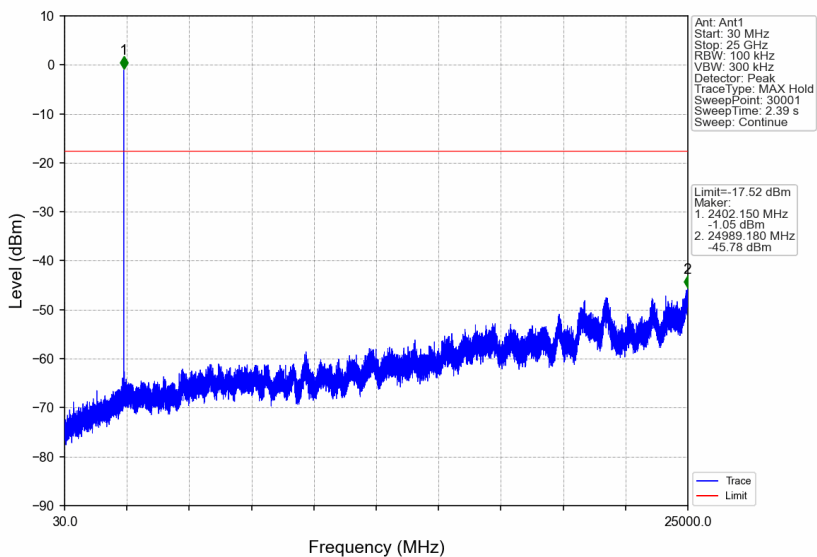
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



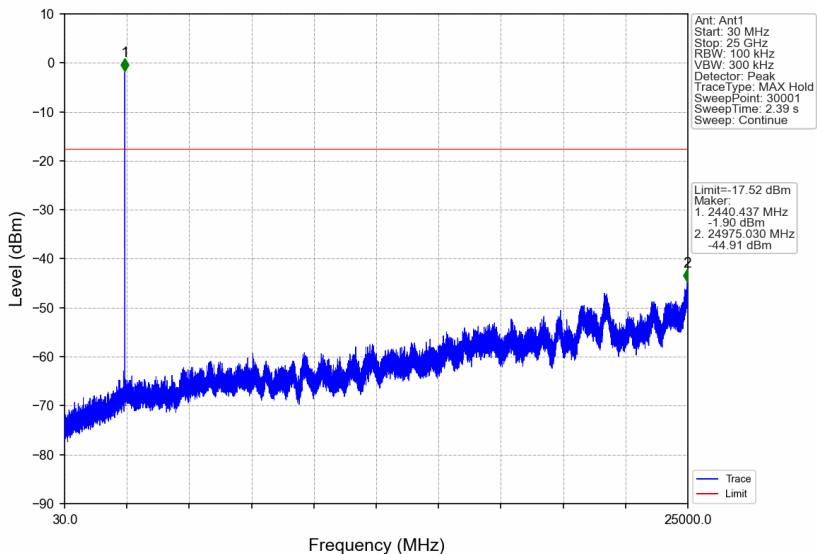
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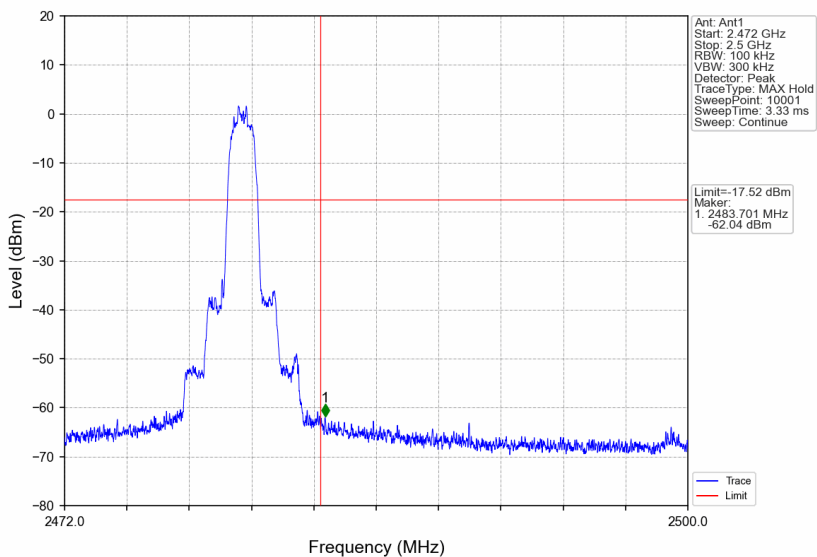
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8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



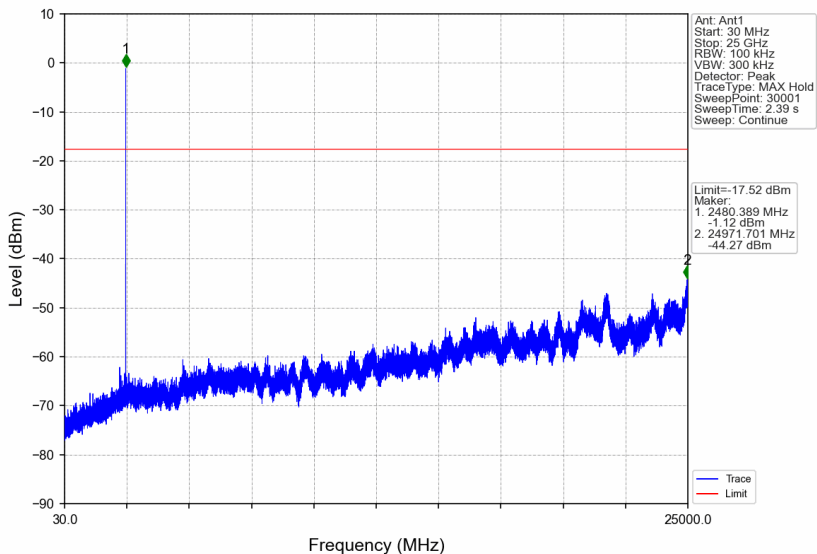
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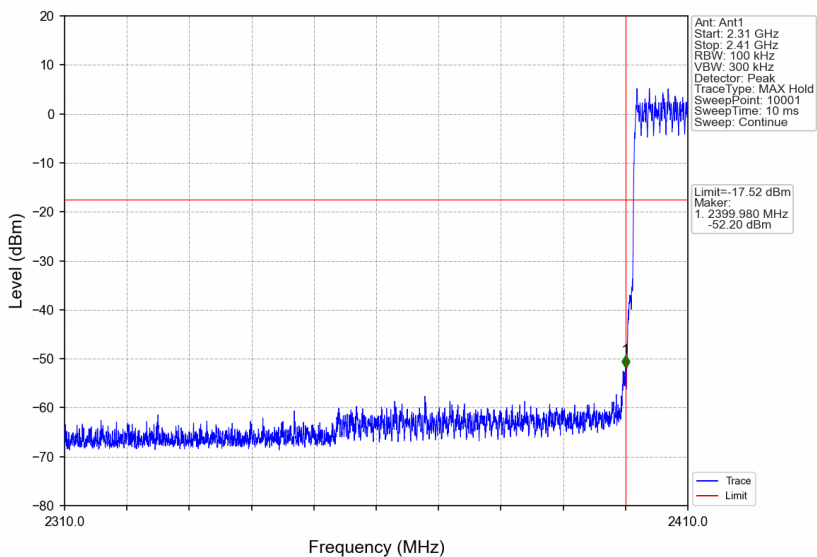
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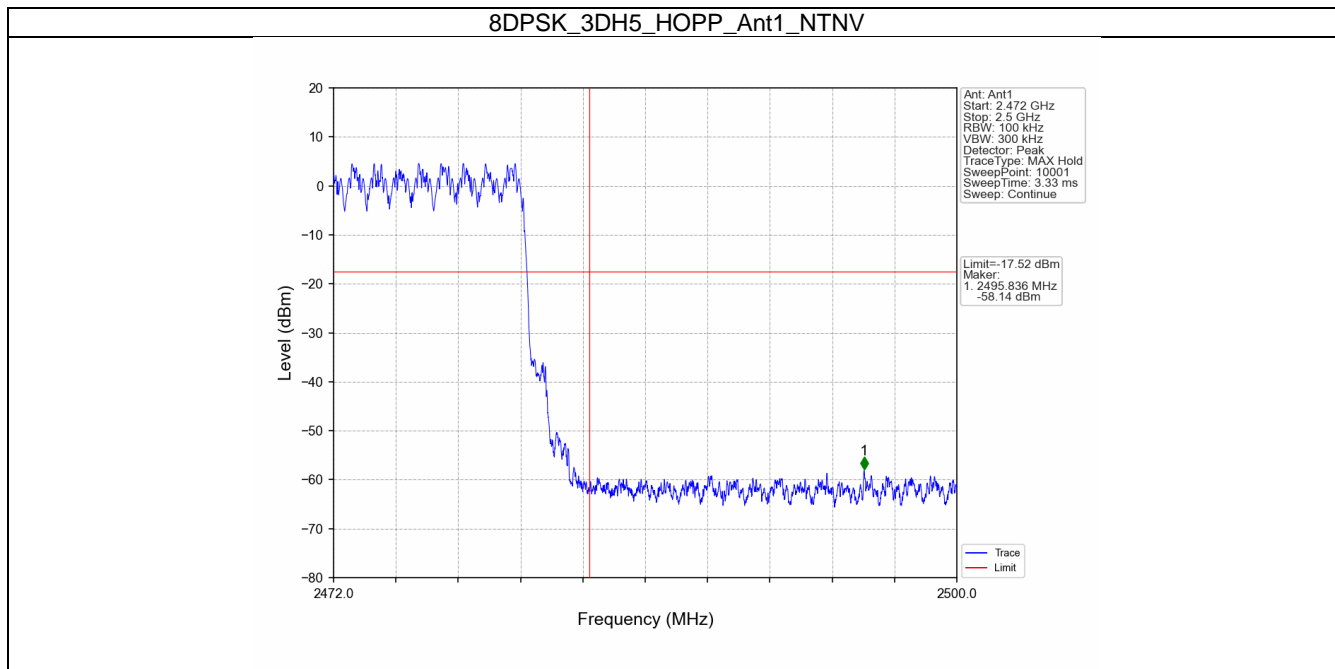


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