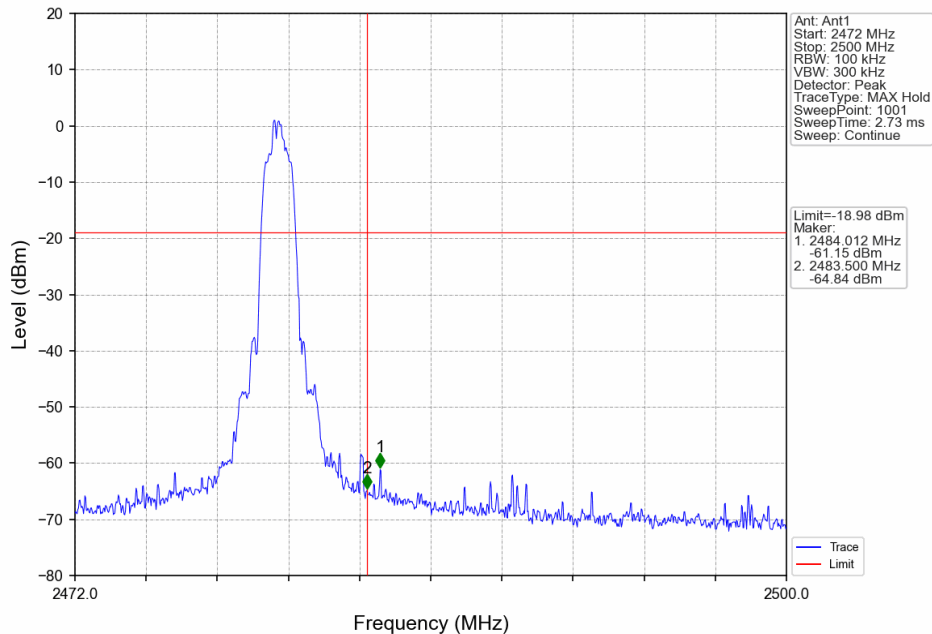
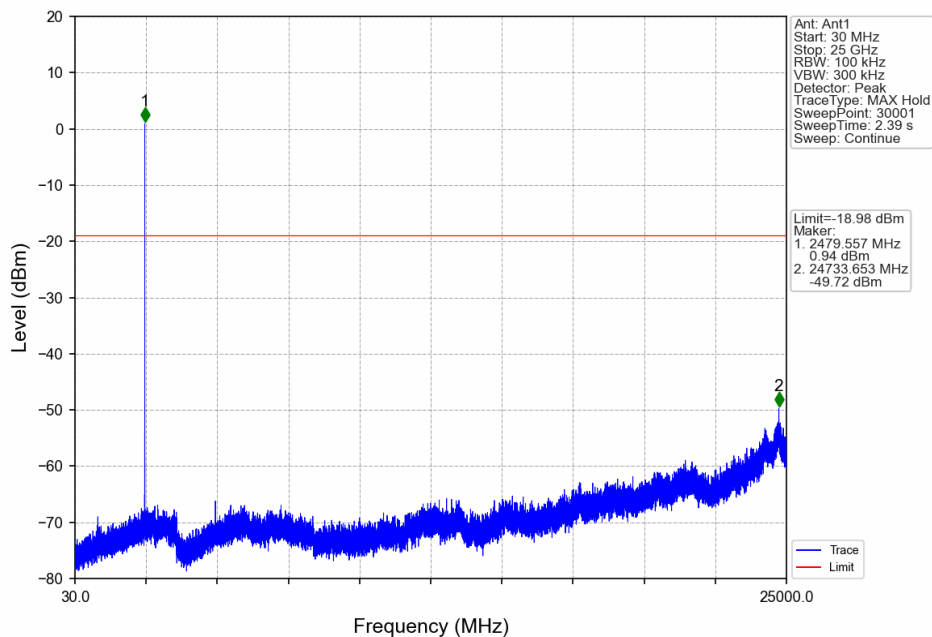


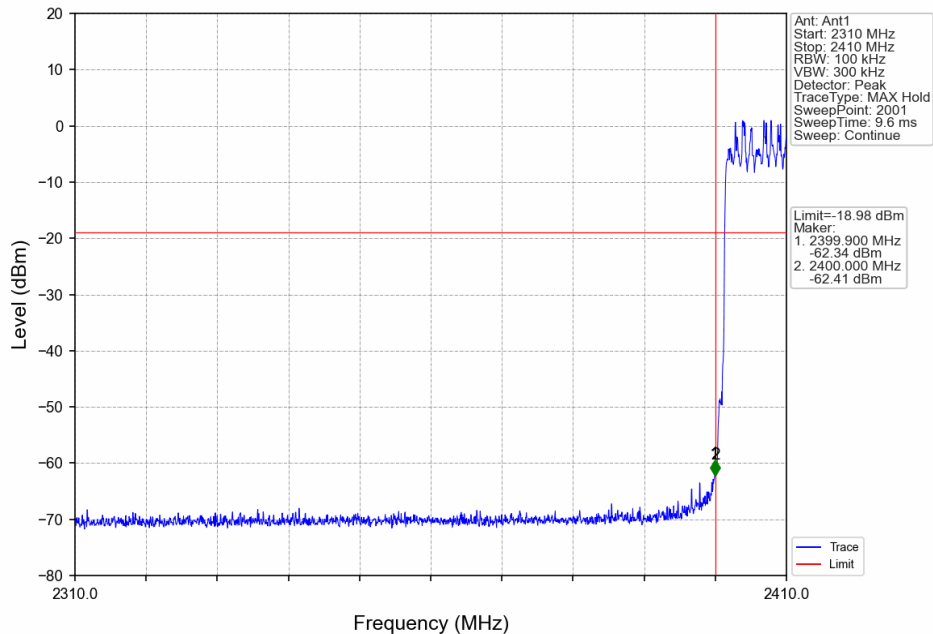
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



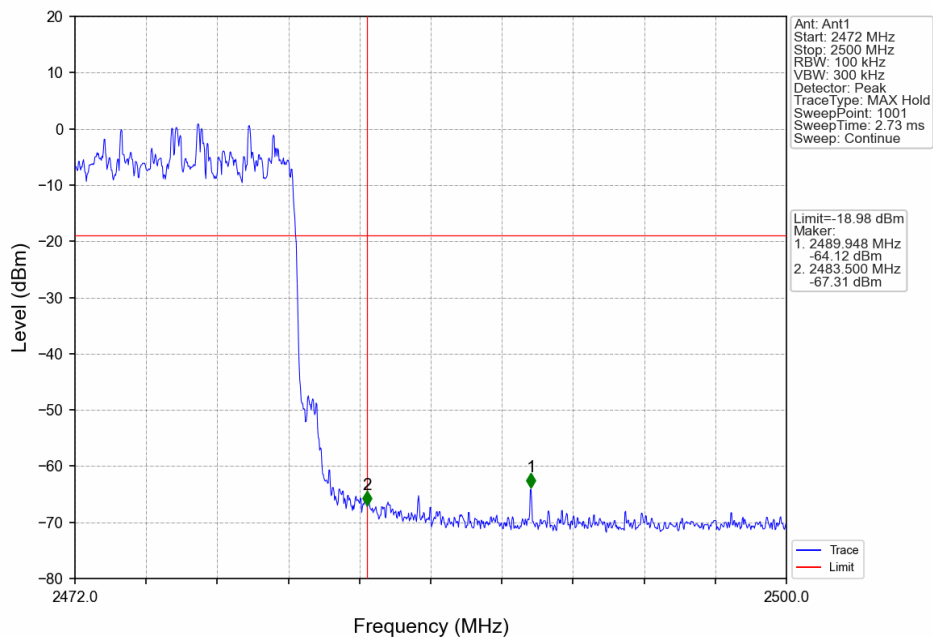
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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



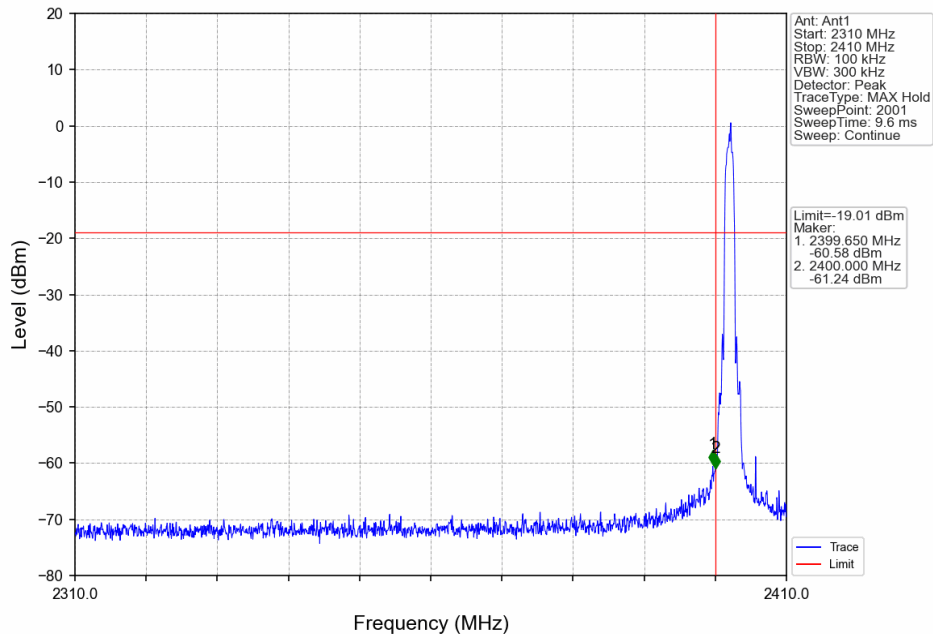
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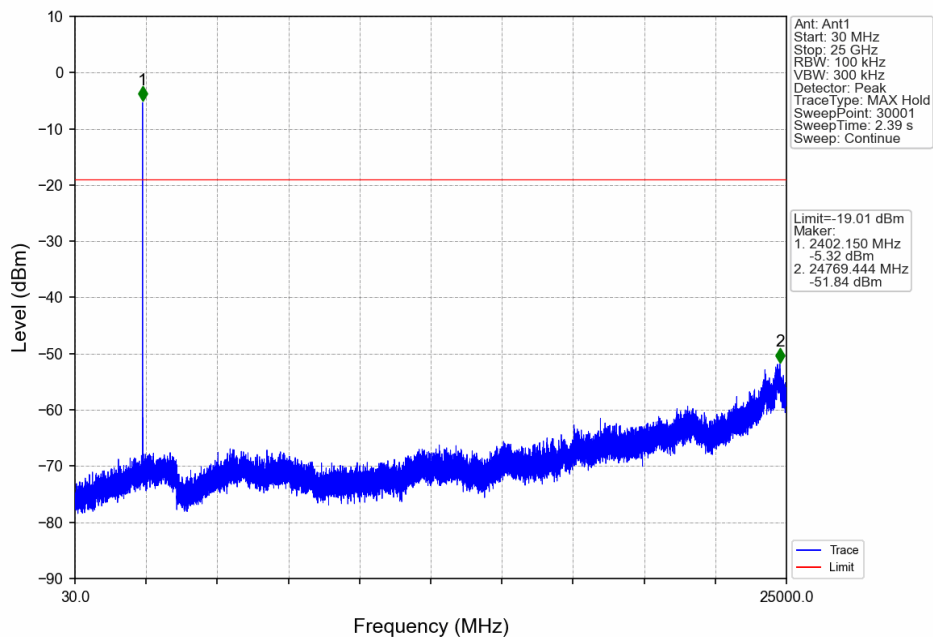
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



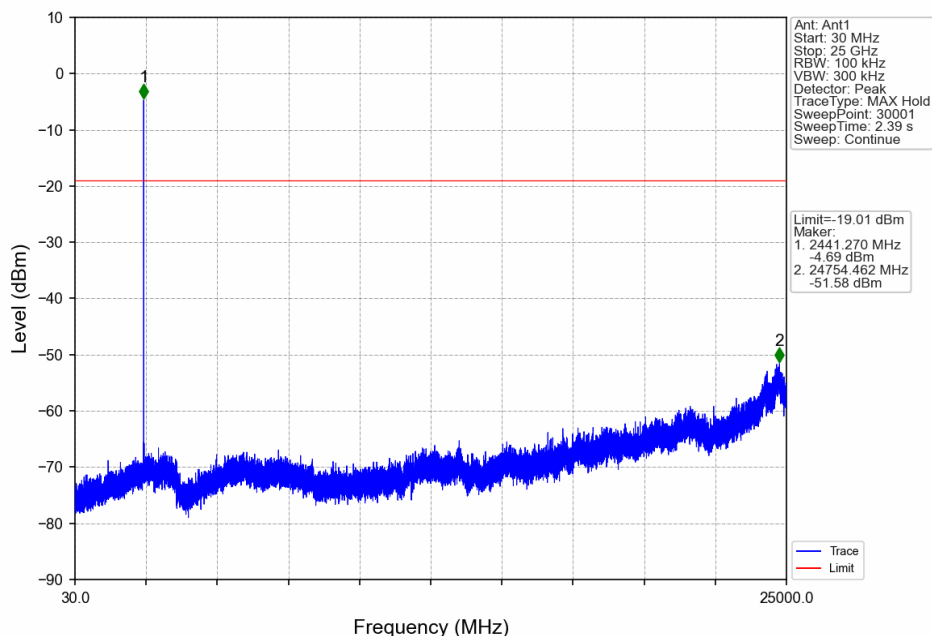
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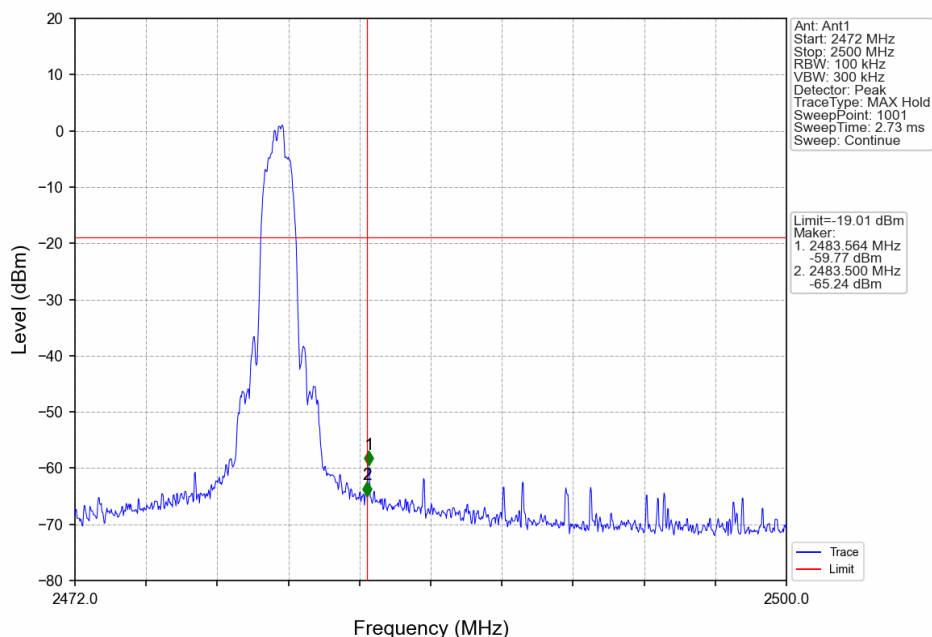
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### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV

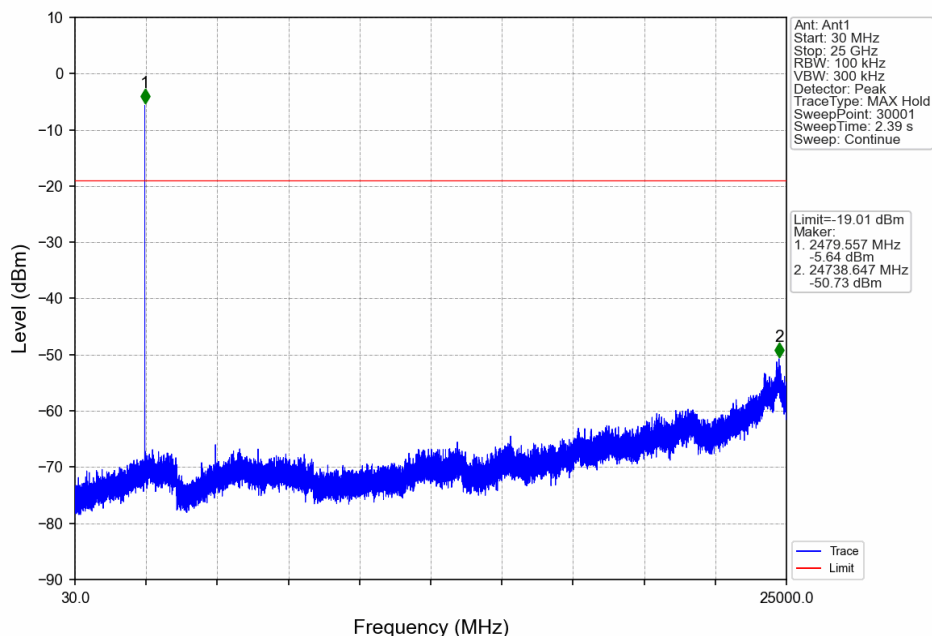


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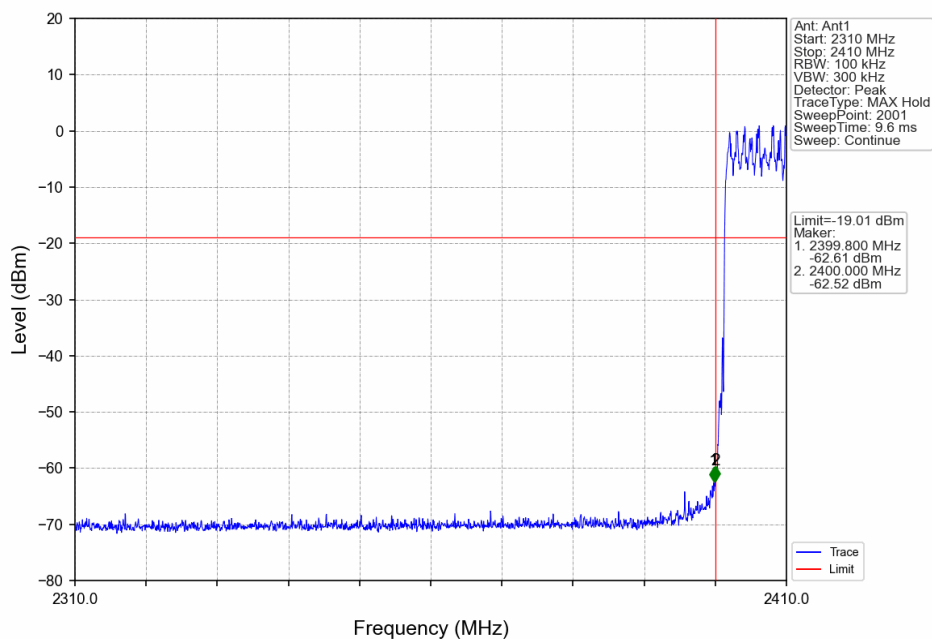


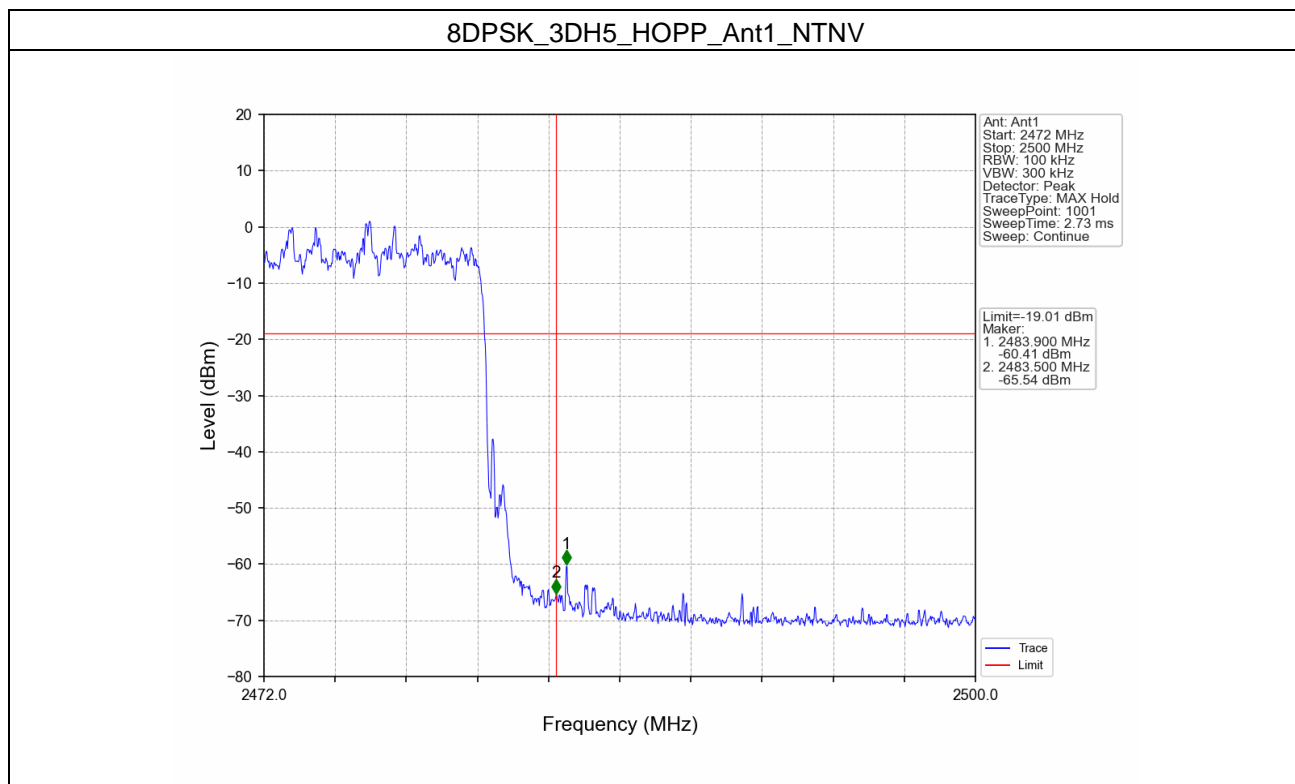


### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100362602

Page: 121 of 173

SCSCY-R080 XBOX:

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.894	3.750	77.17	1.13	0.03
		2441	DH5	2.893	3.749	77.17	1.13	0.01
		2480	DH5	2.895	3.751	77.18	1.12	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.894	3.749	77.19	1.12	0.01
		2441	2DH5	2.896	3.751	77.21	1.12	0.03
		2480	2DH5	2.895	3.750	77.20	1.12	0.03
8DPSK	SISO	2402	3DH5	2.898	3.751	77.26	1.12	0.04
		2441	3DH5	2.897	3.751	77.23	1.12	0.03
		2480	3DH5	2.896	3.750	77.23	1.12	0.03



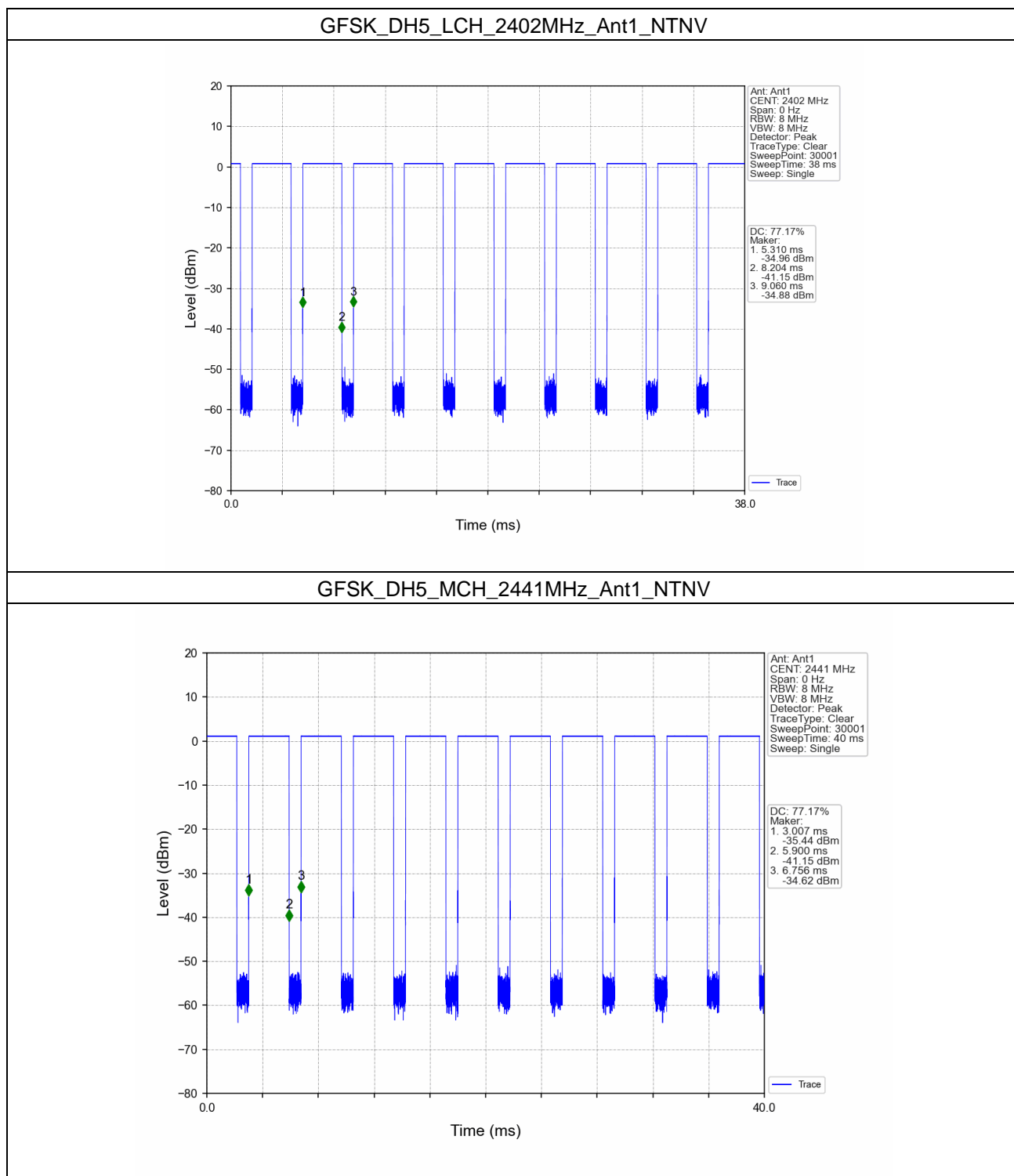
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### 1.1.2 Test Graph

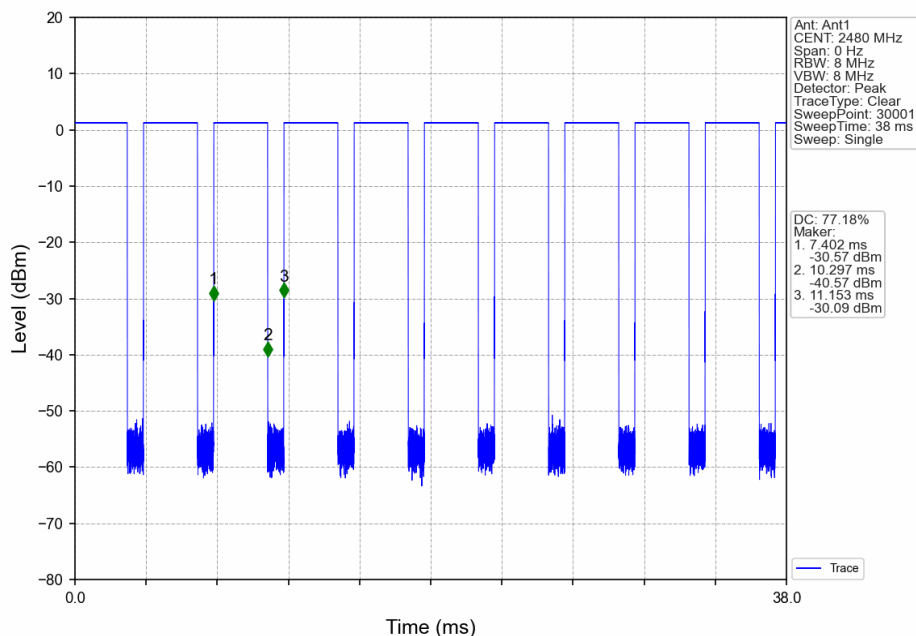


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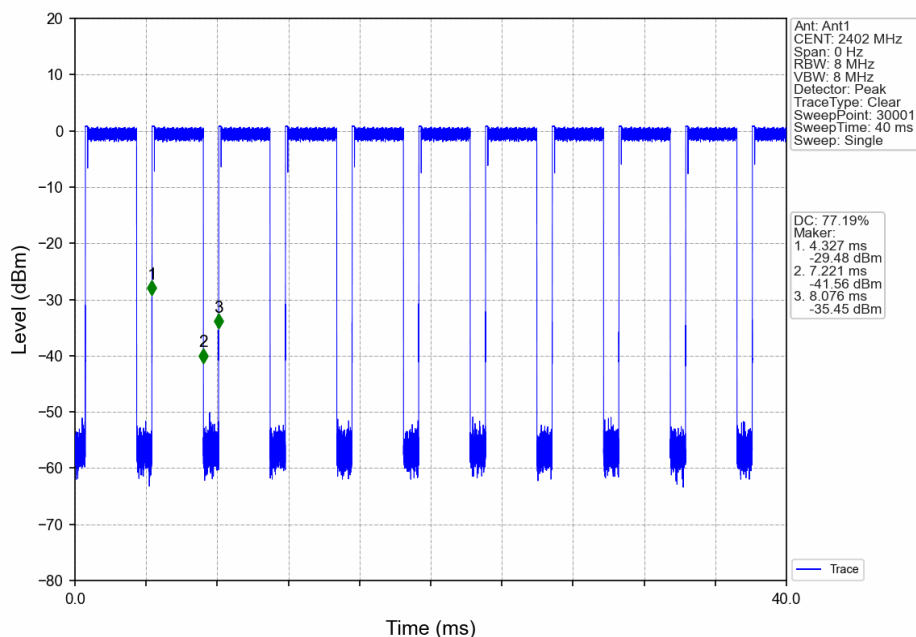
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### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



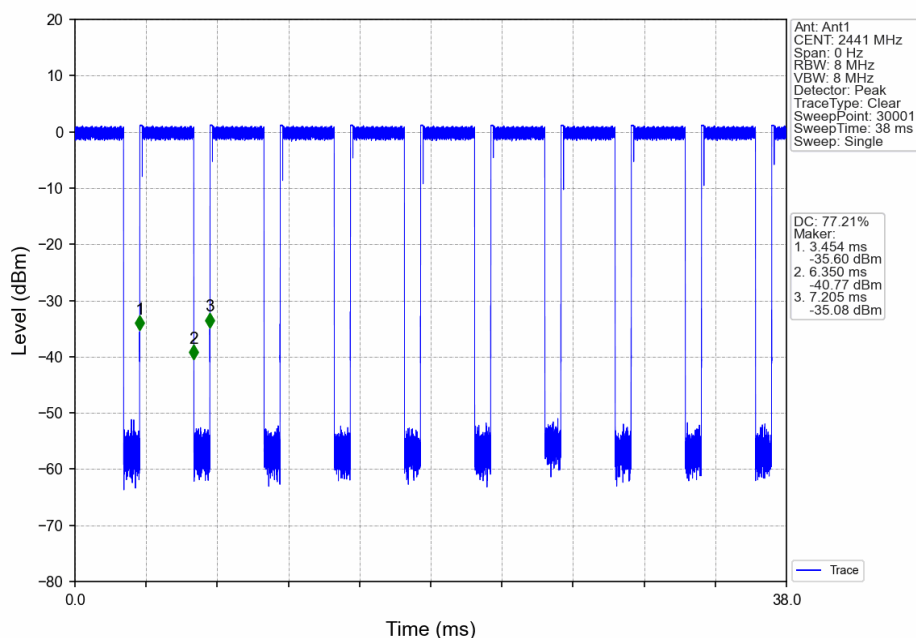
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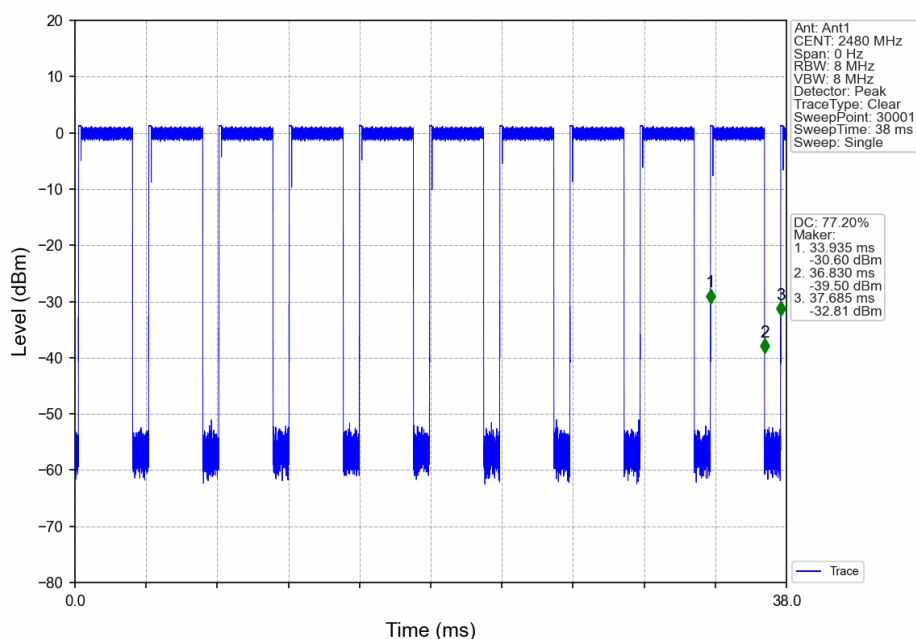
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



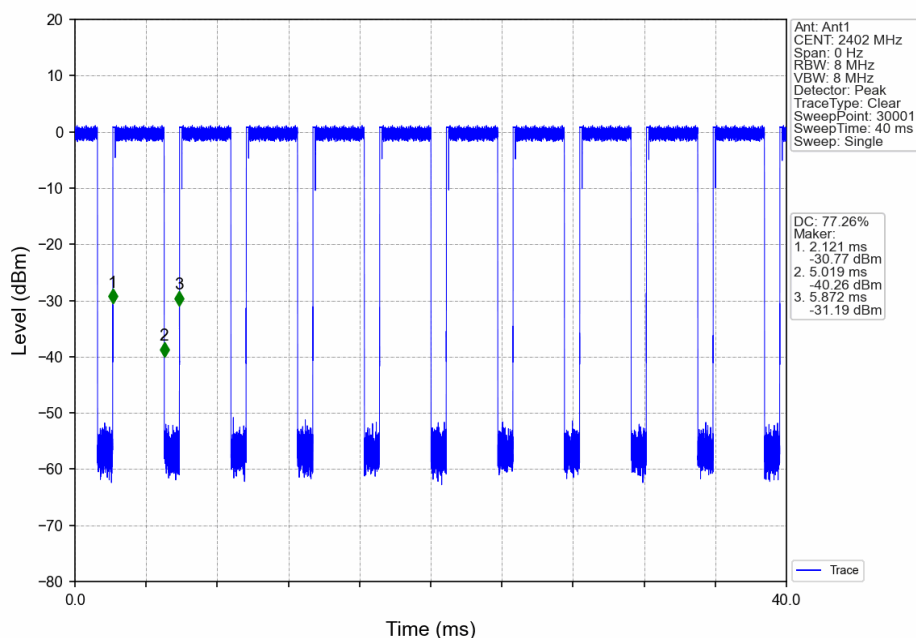
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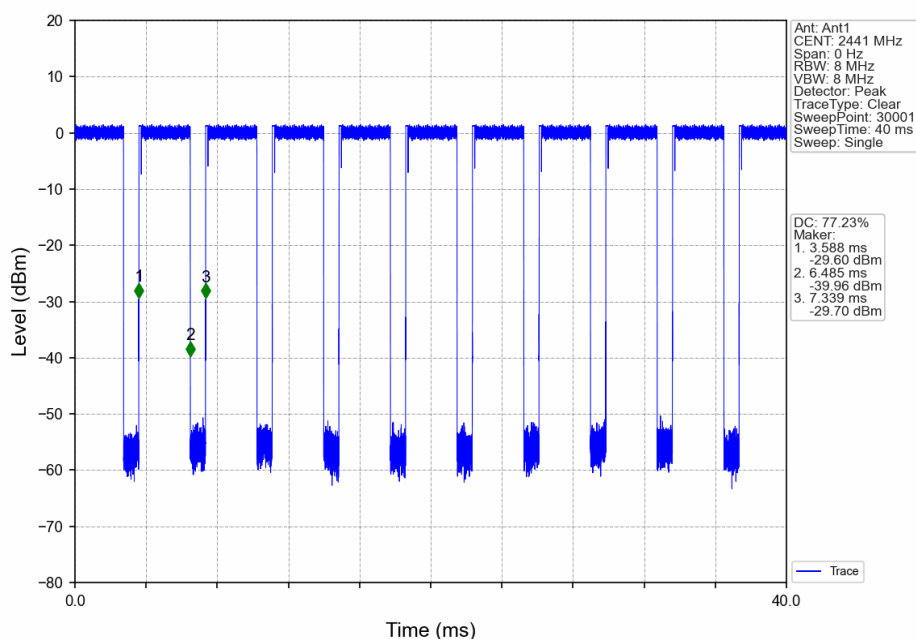
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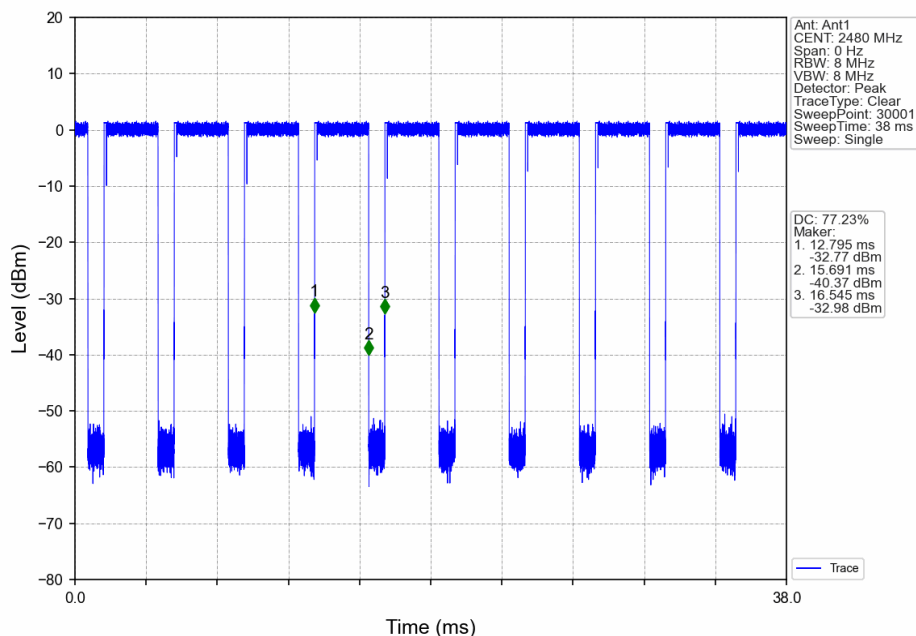
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

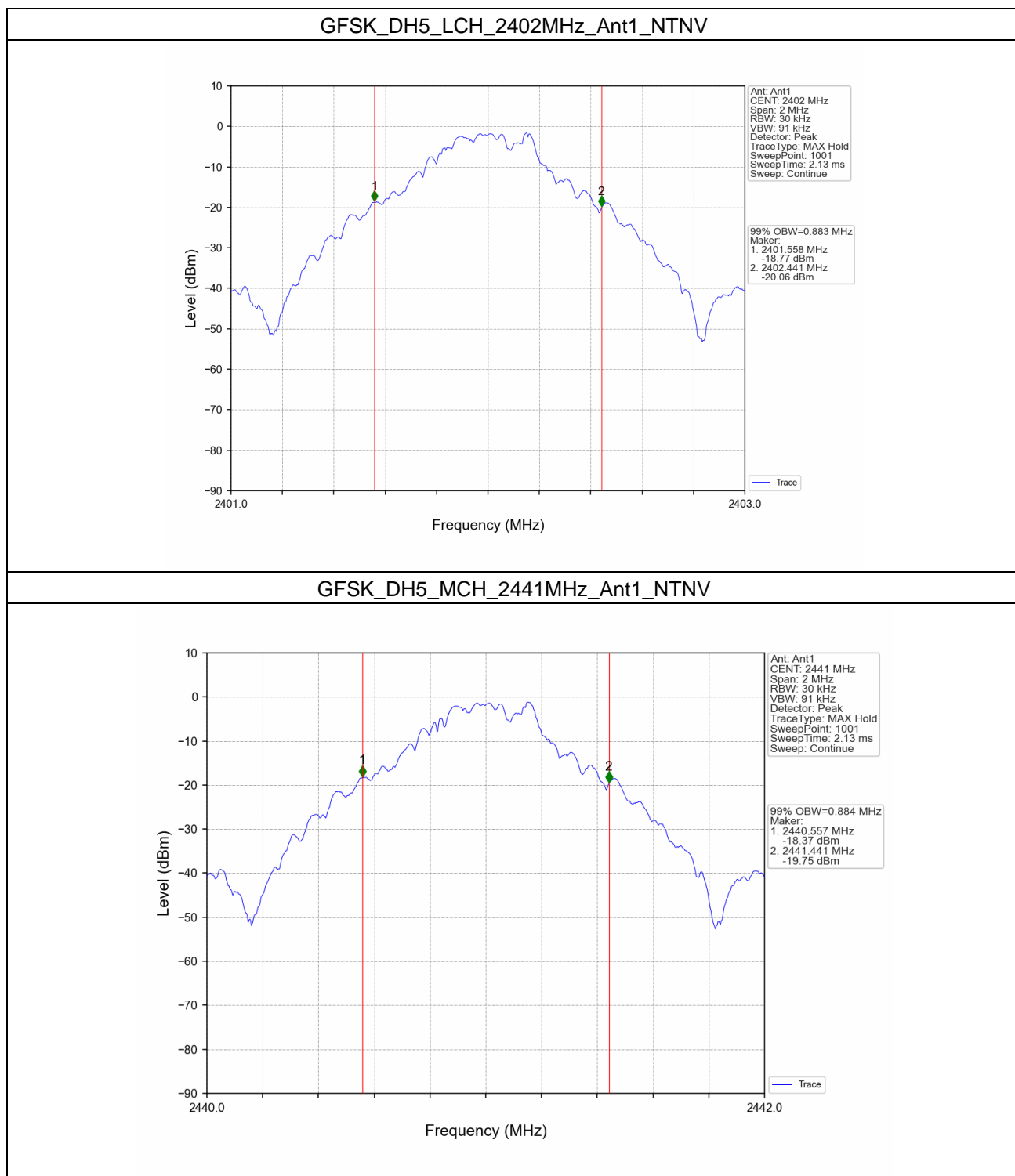
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.883	/	Pass
		2441	DH5	1	0.884	/	Pass
		2480	DH5	1	0.883	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.148	/	Pass
		2441	2DH5	1	1.146	/	Pass
		2480	2DH5	1	1.146	/	Pass
8DPSK	SISO	2402	3DH5	1	1.157	/	Pass
		2441	3DH5	1	1.154	/	Pass
		2480	3DH5	1	1.157	/	Pass



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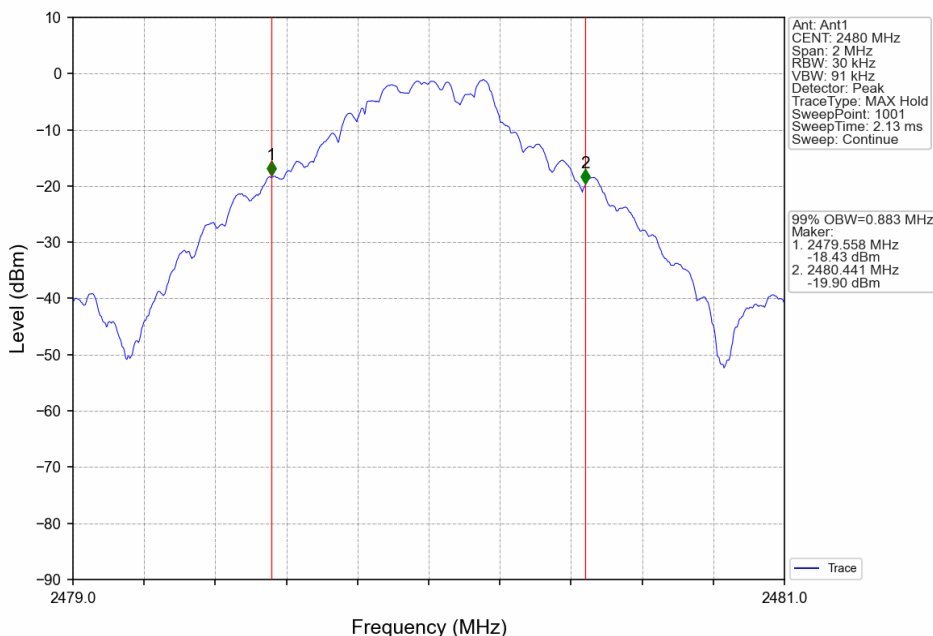
### 2.1.2 Test Graph



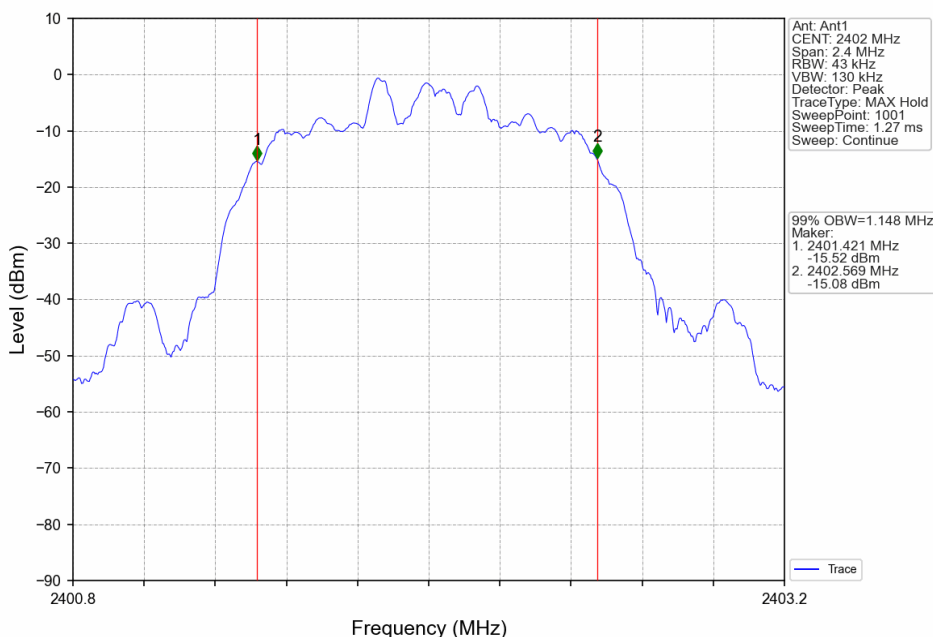
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



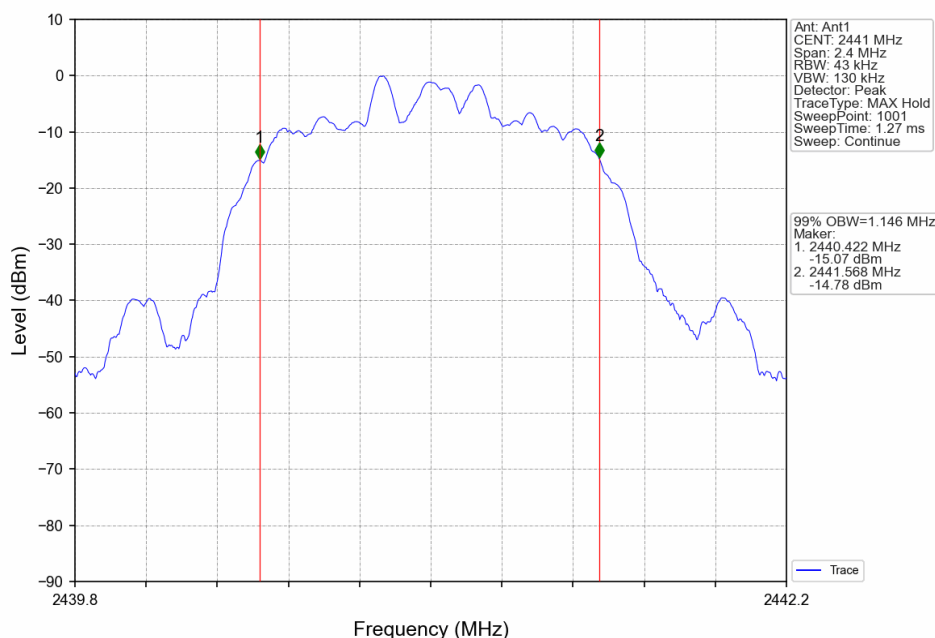
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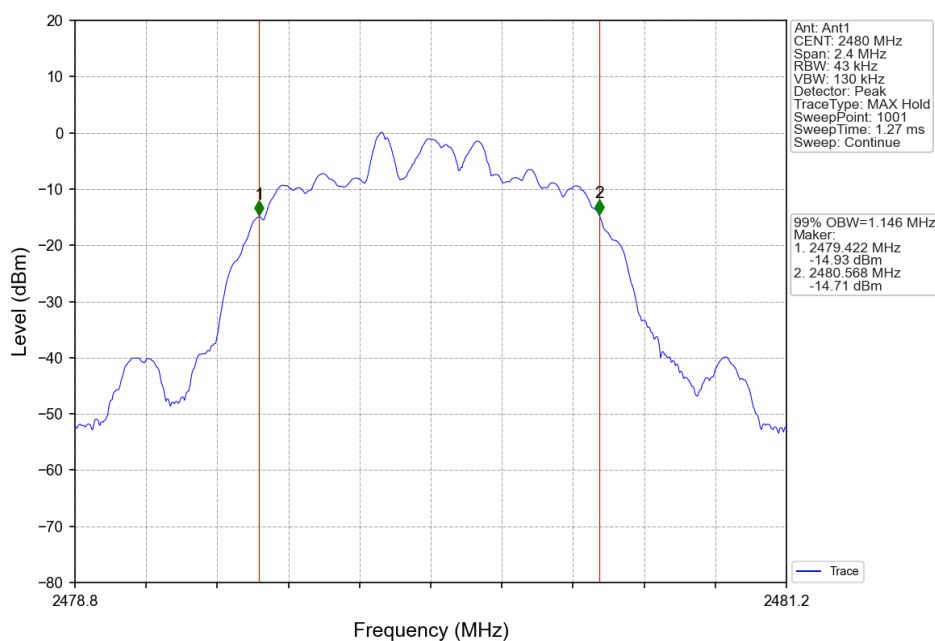
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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

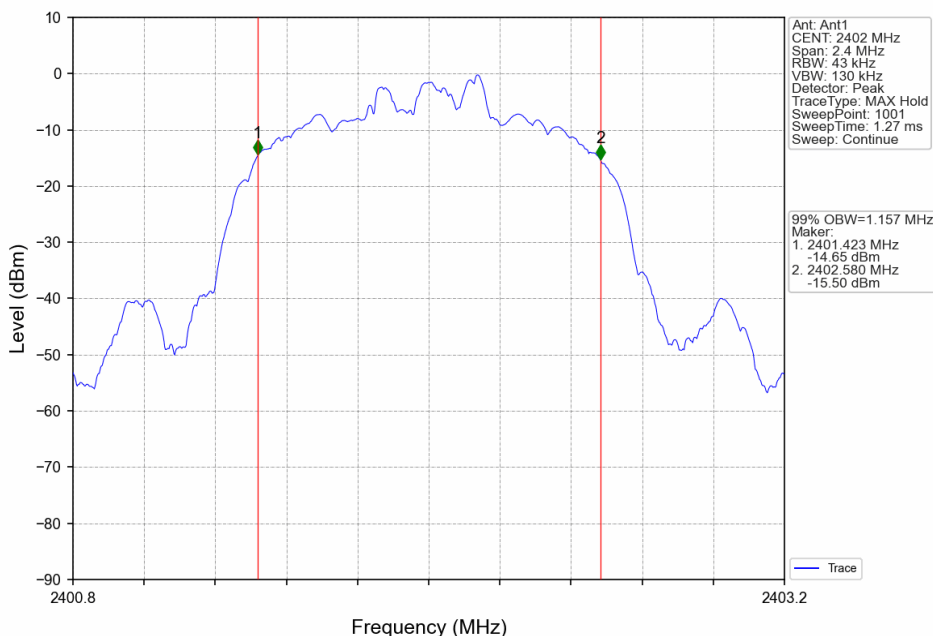


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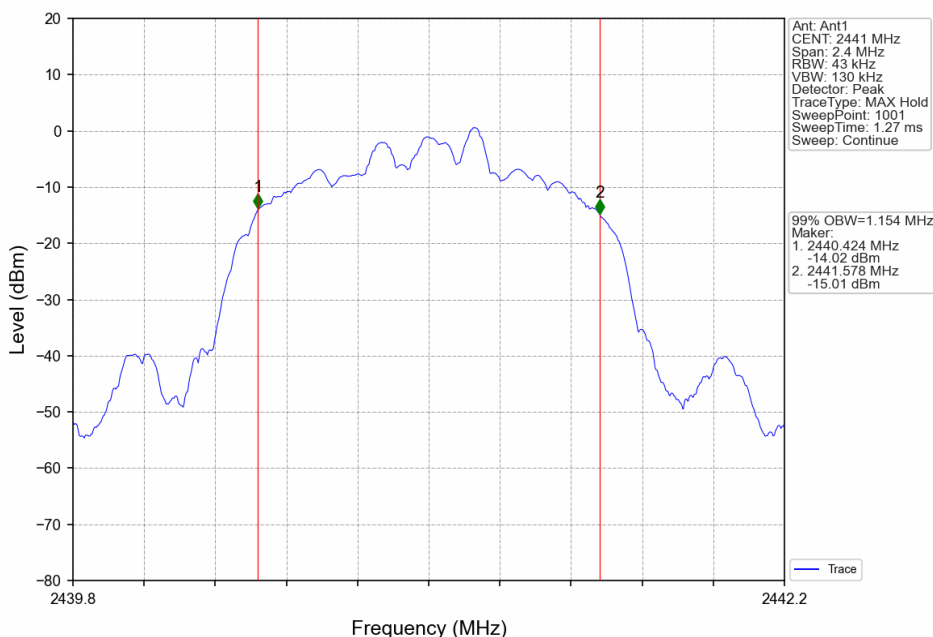
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



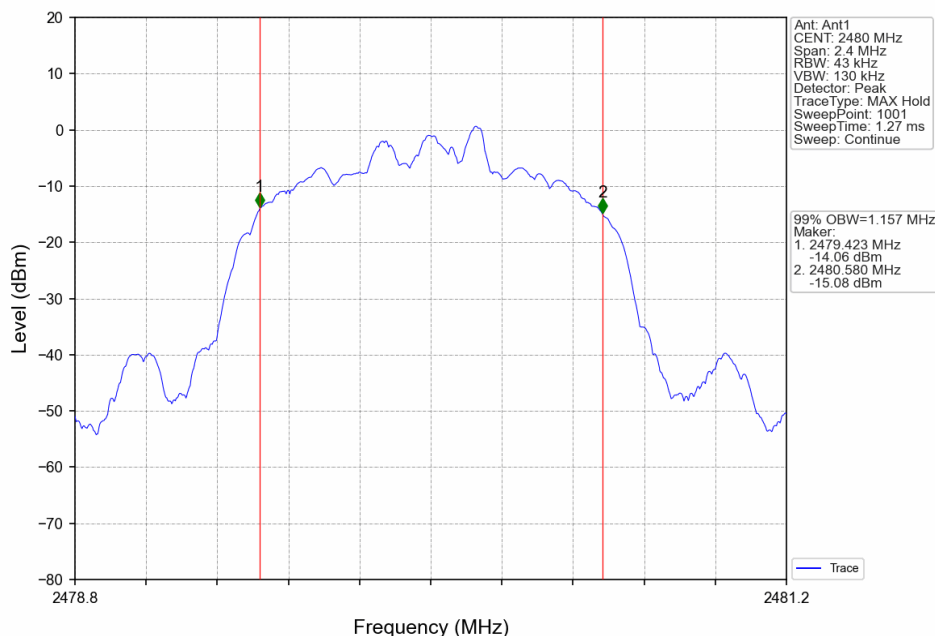
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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## 2.2 20dB BW

### 2.2.1 Test Result

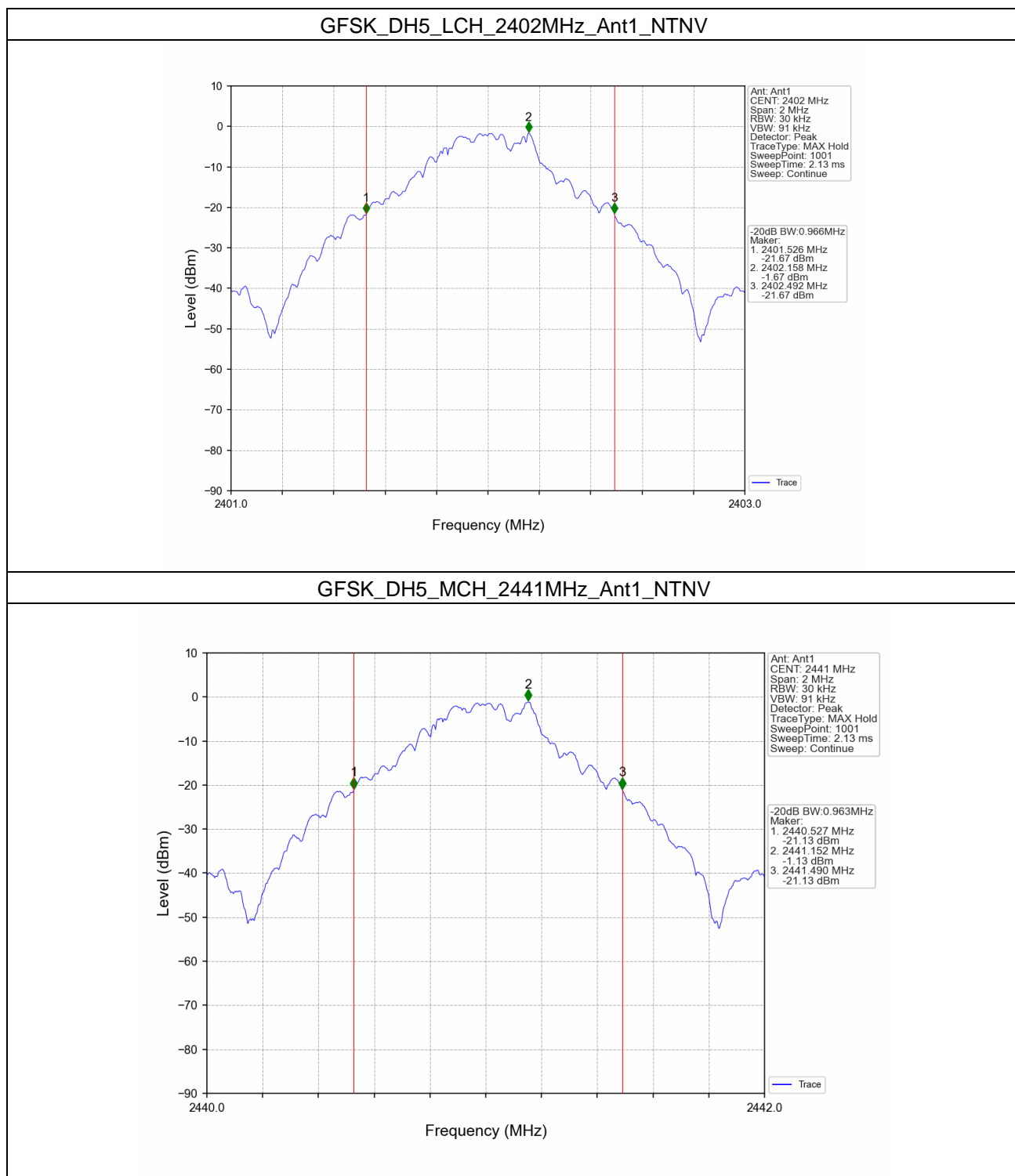
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.966	/	Pass
		2441	DH5	1	0.963	/	Pass
		2480	DH5	1	0.962	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.268	/	Pass
		2441	2DH5	1	1.266	/	Pass
		2480	2DH5	1	1.268	/	Pass
8DPSK	SISO	2402	3DH5	1	1.281	/	Pass
		2441	3DH5	1	1.283	/	Pass
		2480	3DH5	1	1.280	/	Pass



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### 2.2.2 Test Graph

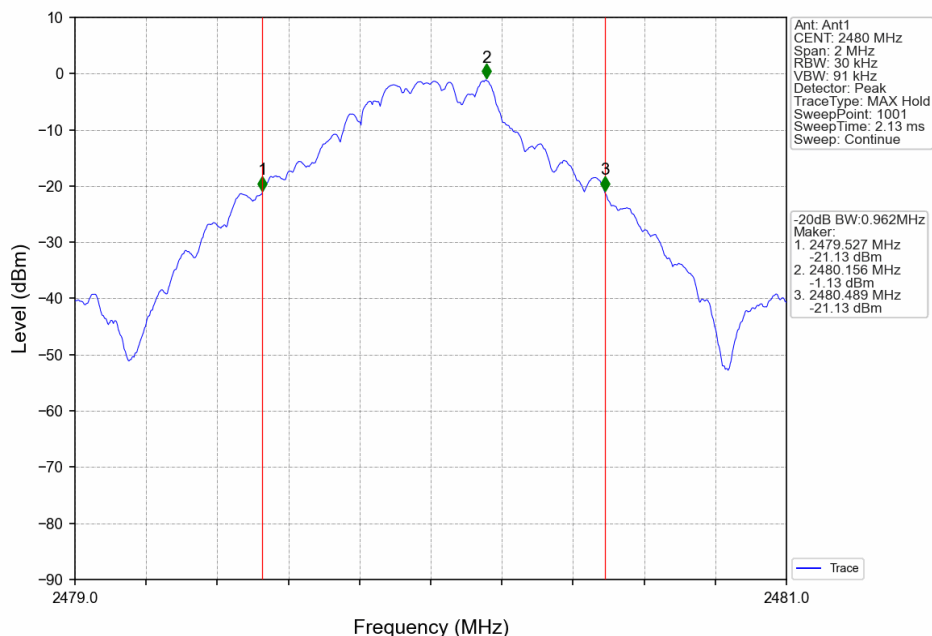


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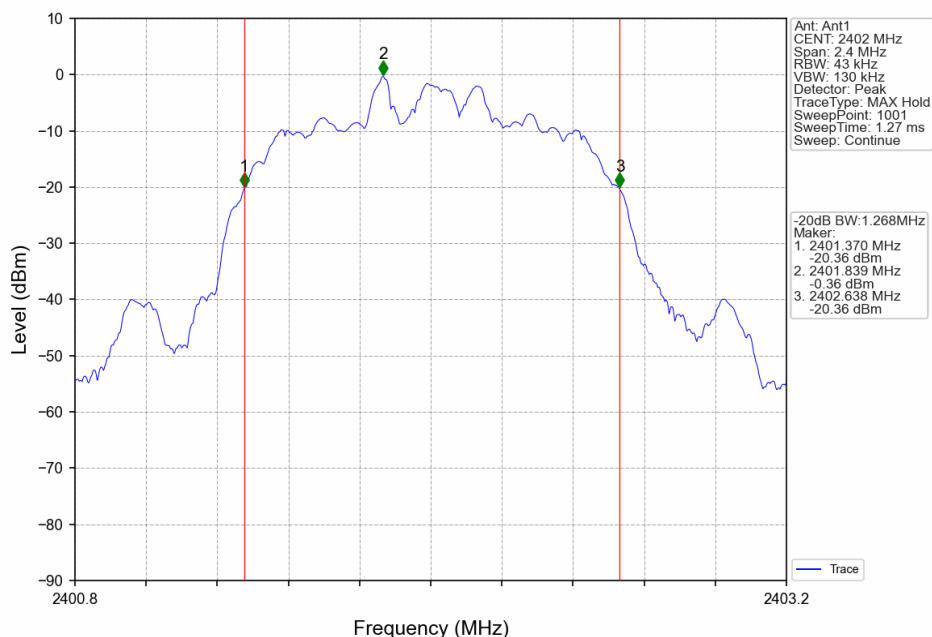
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GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



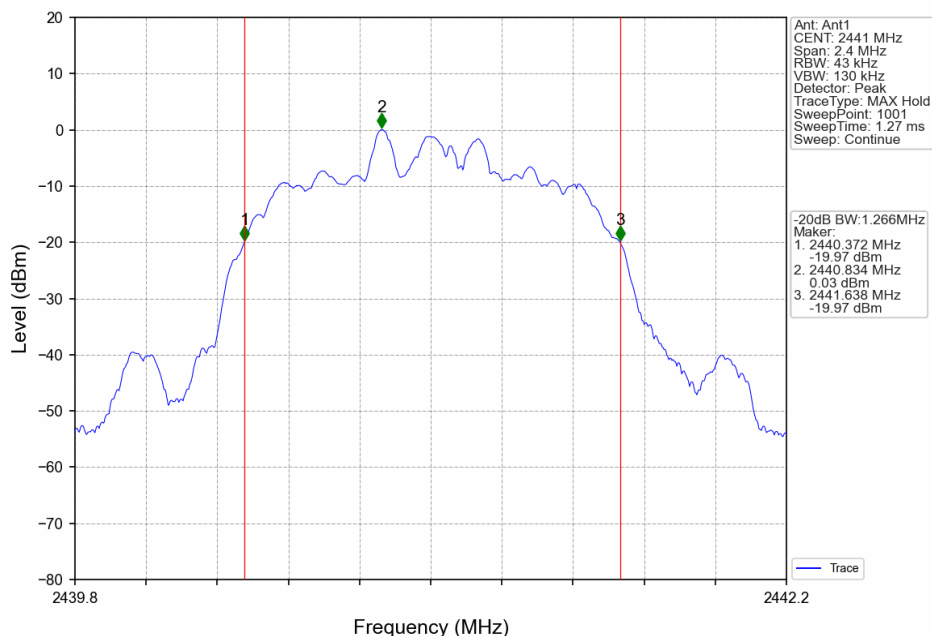
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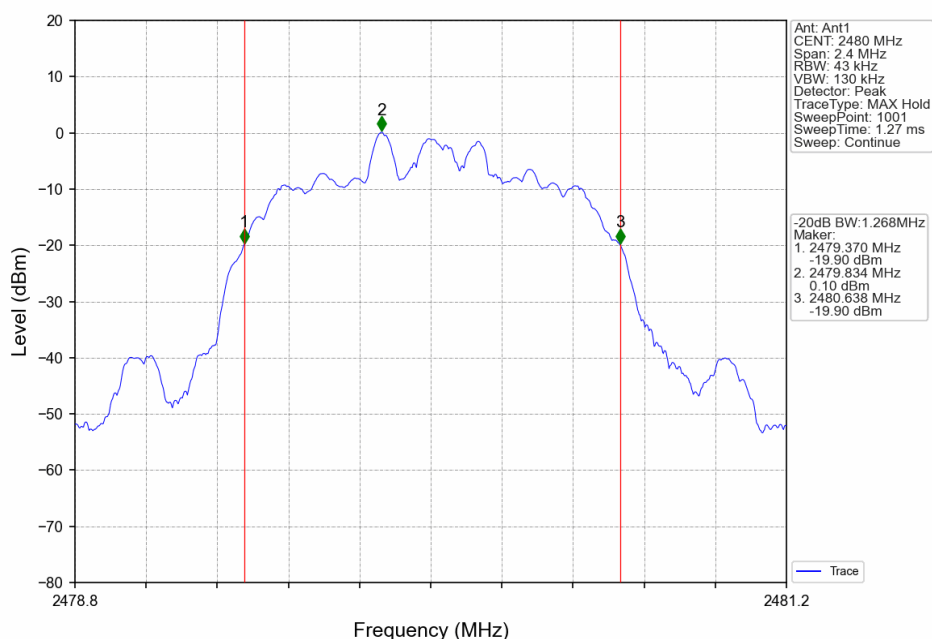
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### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



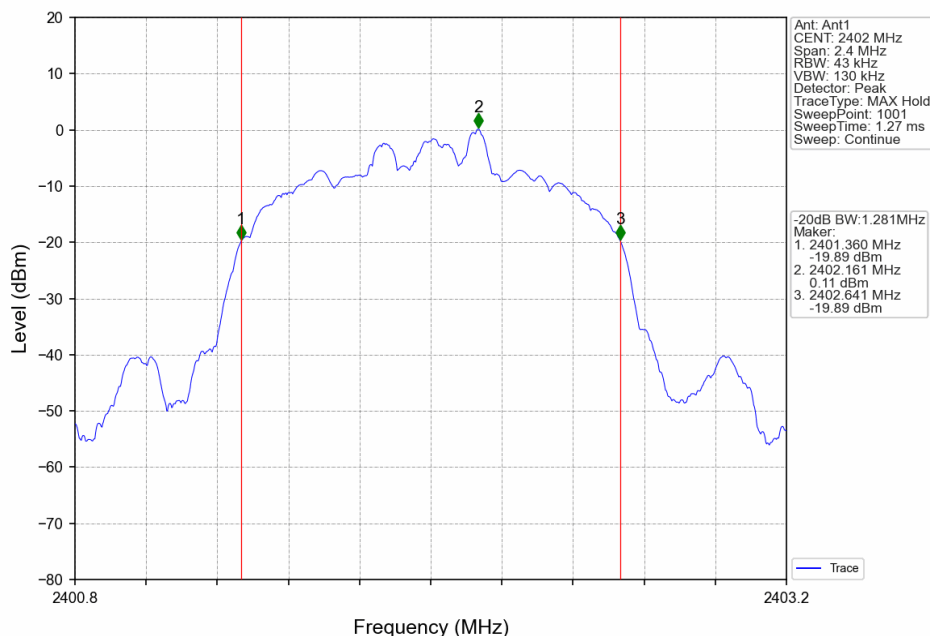
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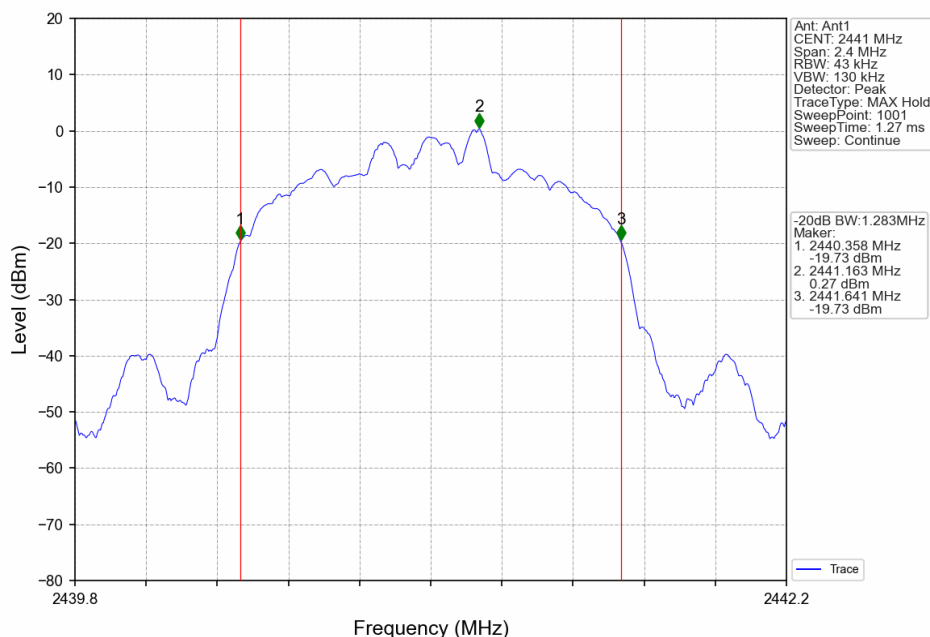
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### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



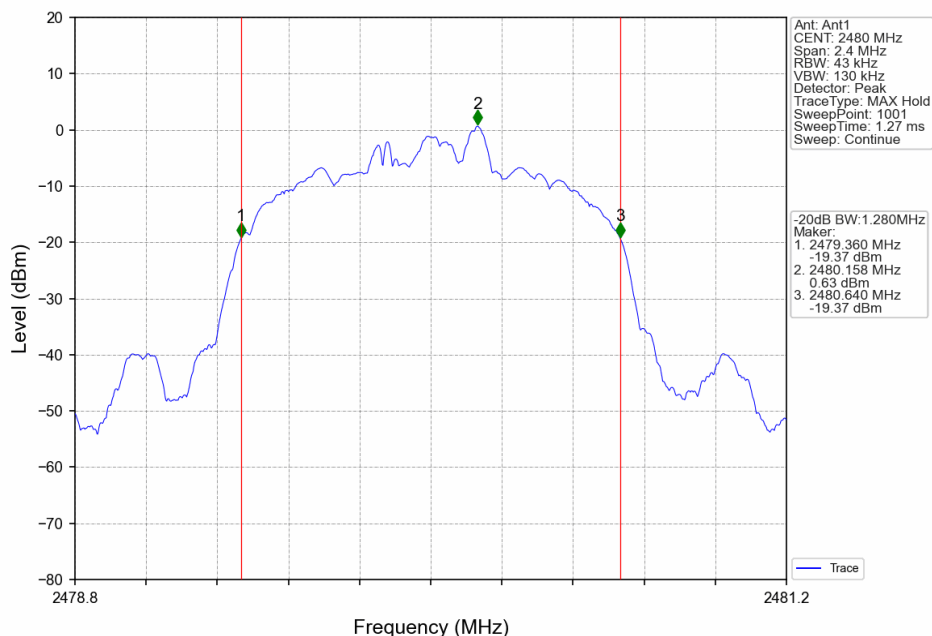
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### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	0.78	<=30	Pass
		2441	DH5	1.15	<=30	Pass
		2480	DH5	1.19	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	0.84	<=20.97	Pass
		2441	2DH5	1.18	<=20.97	Pass
		2480	2DH5	1.27	<=20.97	Pass
8DPSK	SISO	2402	3DH5	0.95	<=20.97	Pass
		2441	3DH5	1.32	<=20.97	Pass
		2480	3DH5	1.38	<=20.97	Pass



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## 4. Carrier Frequency Separation

### 4.1 Ant1

#### 4.1.1 Test Result

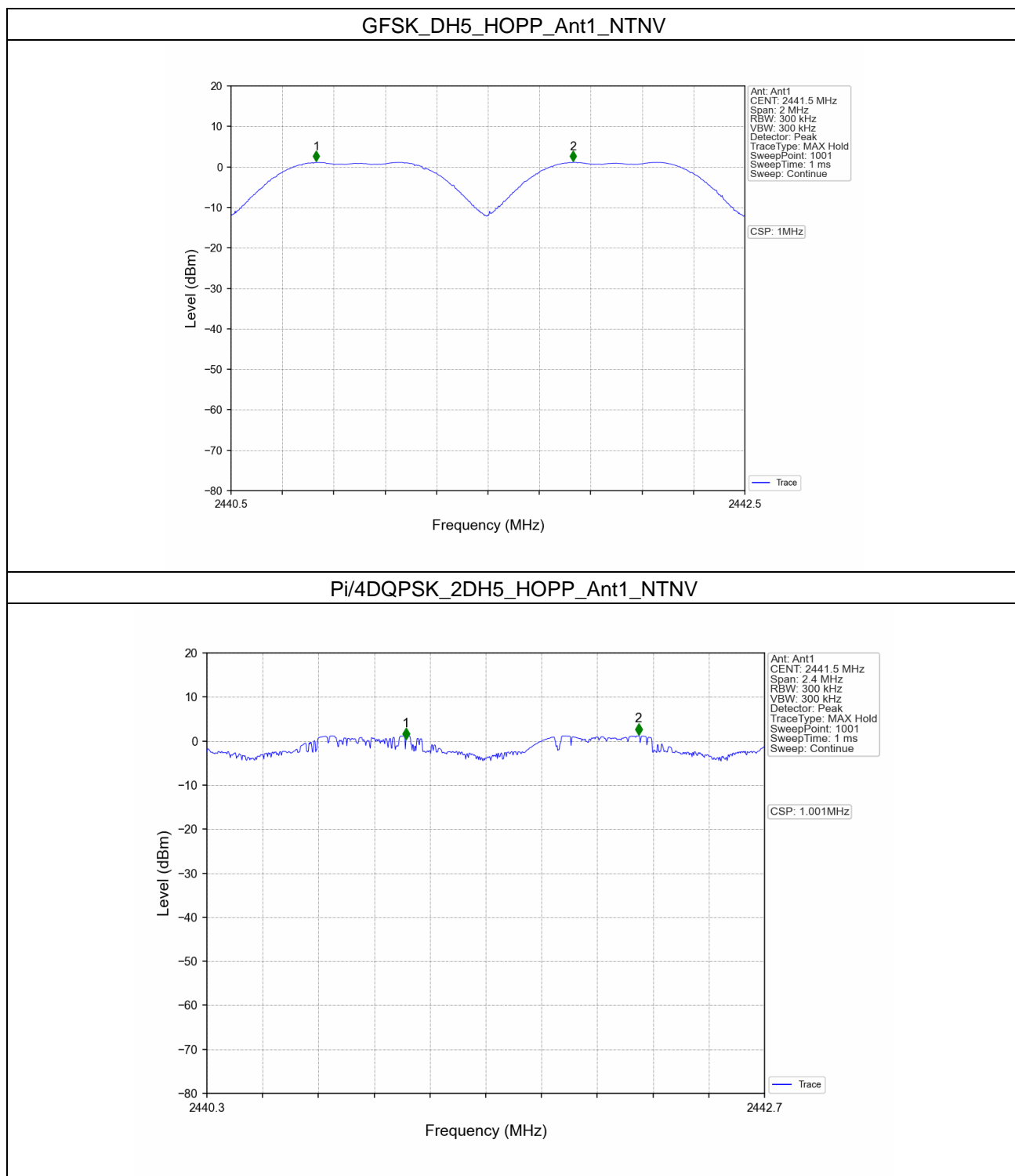
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.966	$\geq 0.966$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.268	$\geq 0.845$	Pass
8DPSK	SISO	HOPP	3DH5	1.003	1.283	$\geq 0.855$	Pass

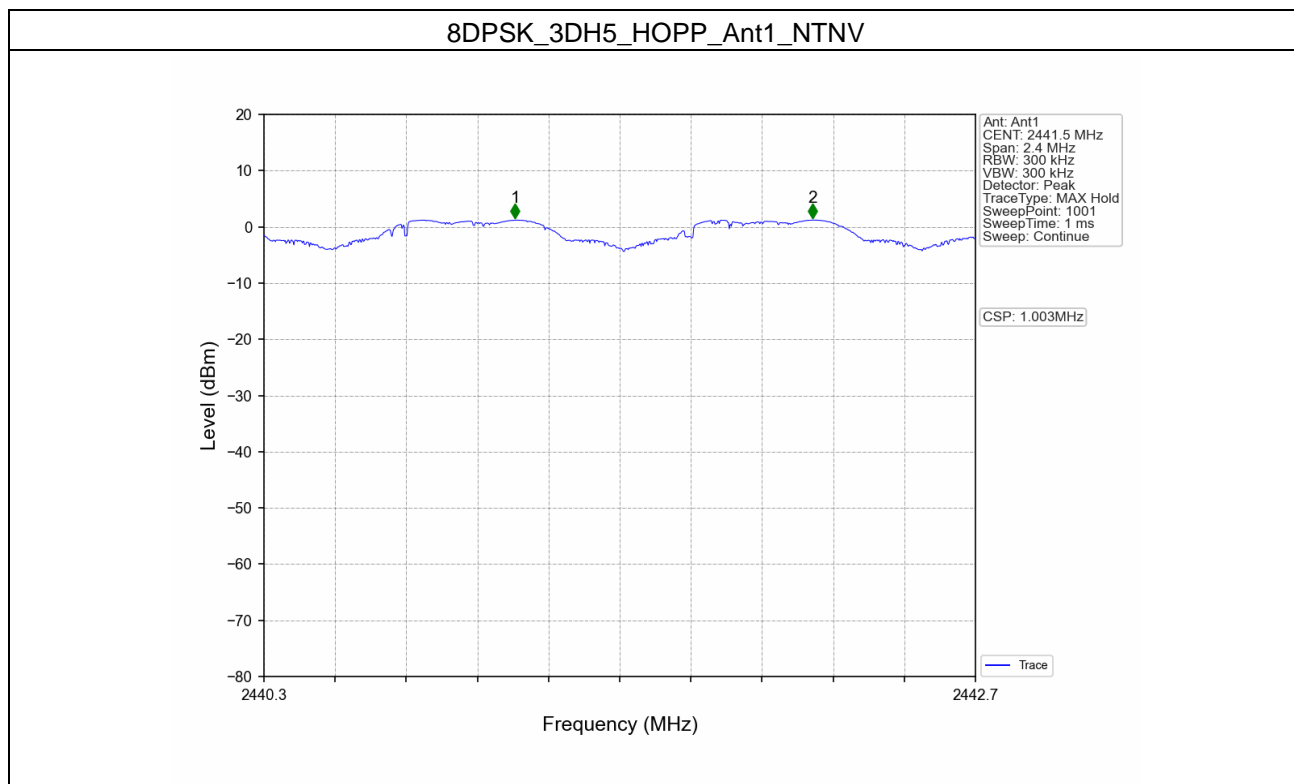


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### 4.1.2 Test Graph





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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		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

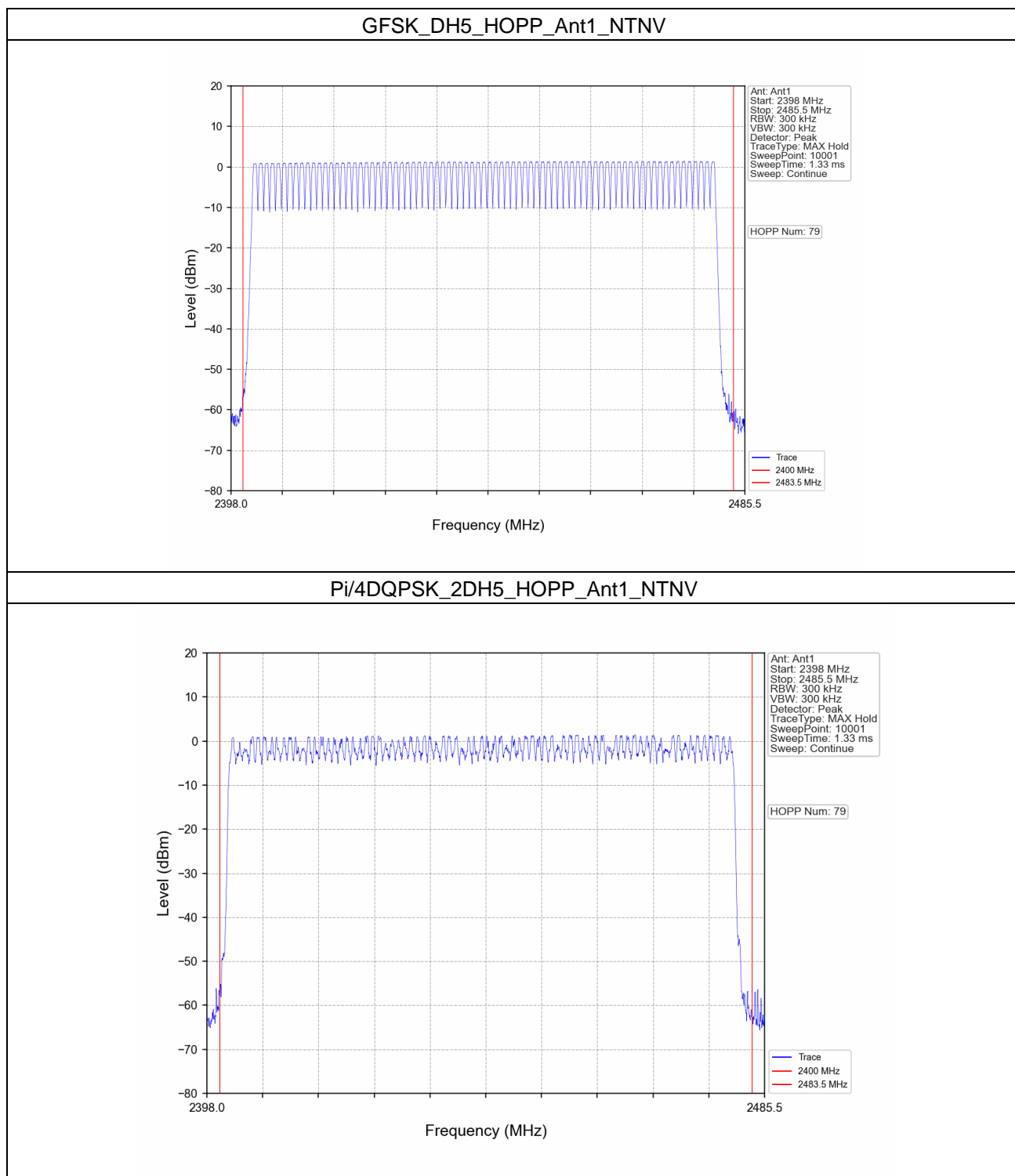


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### 5.1.2 Test Graph



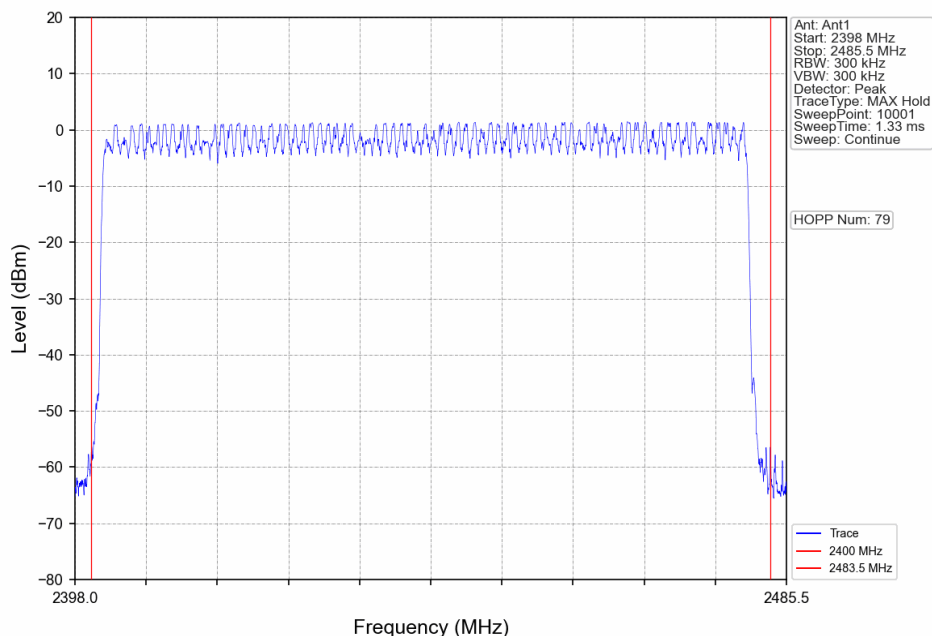
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### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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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	0.376	31.600	320	120.320	<=400	Pass
			DH3	1.634	31.600	160	261.440	<=400	Pass
			DH5	2.882	31.600	107	308.374	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	1.634	31.600	160	261.440	<=400	Pass
			2DH5	2.882	31.600	107	308.374	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.382	31.600	320	122.240	<=400	Pass
			3DH3	1.634	31.600	159	259.806	<=400	Pass
			3DH5	2.886	31.600	106	305.916	<=400	Pass



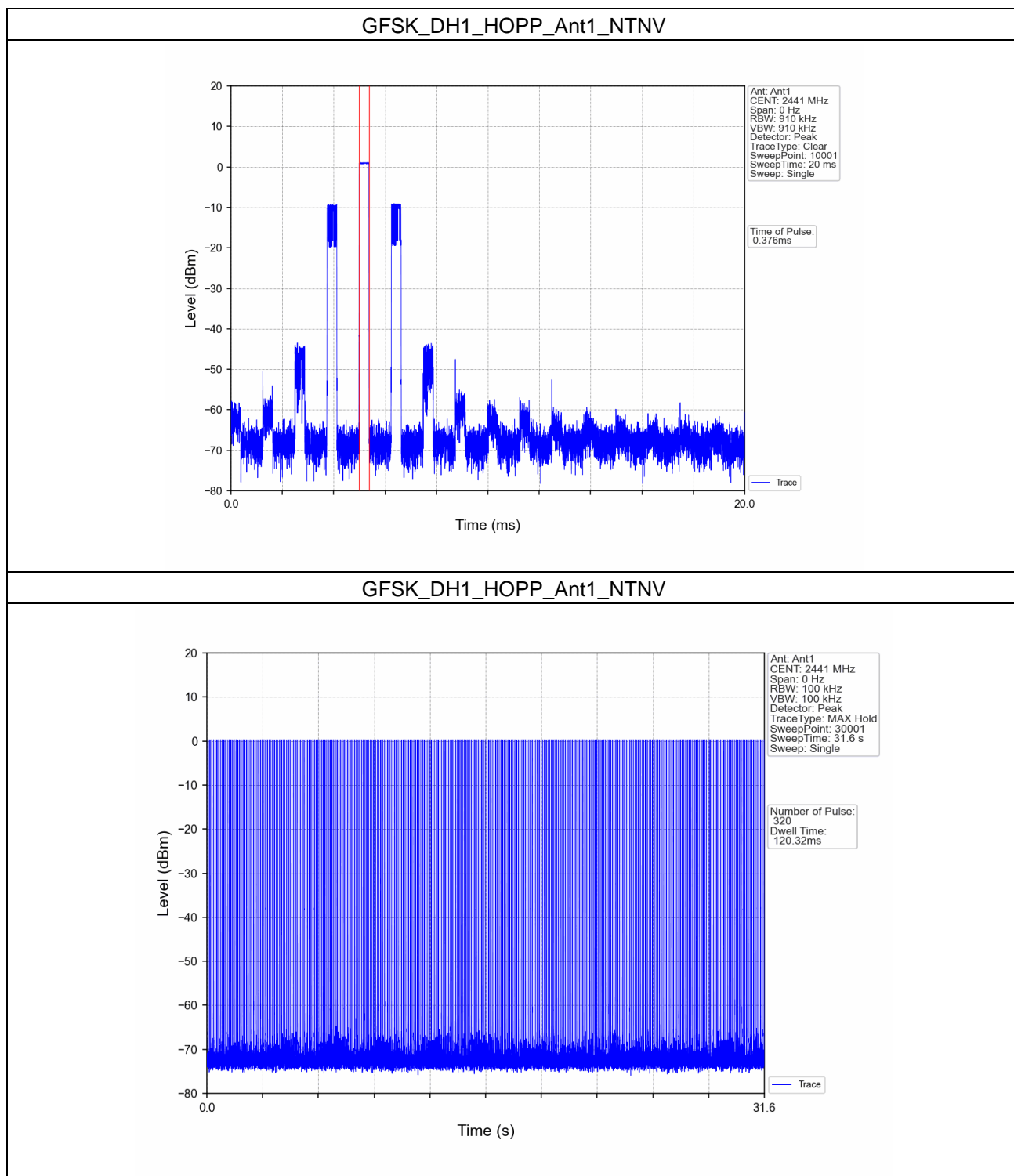
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### 6.1.2 Test Graph



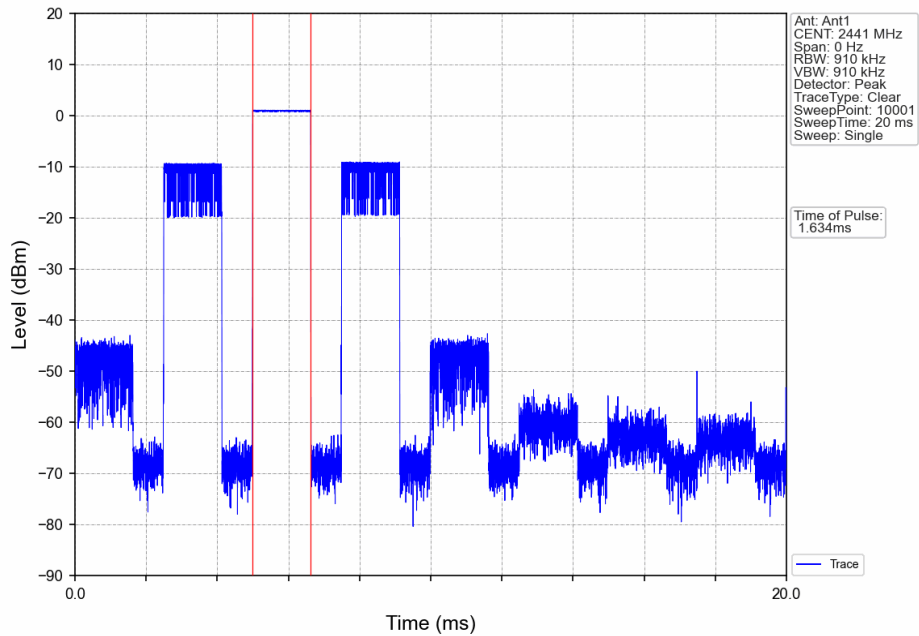
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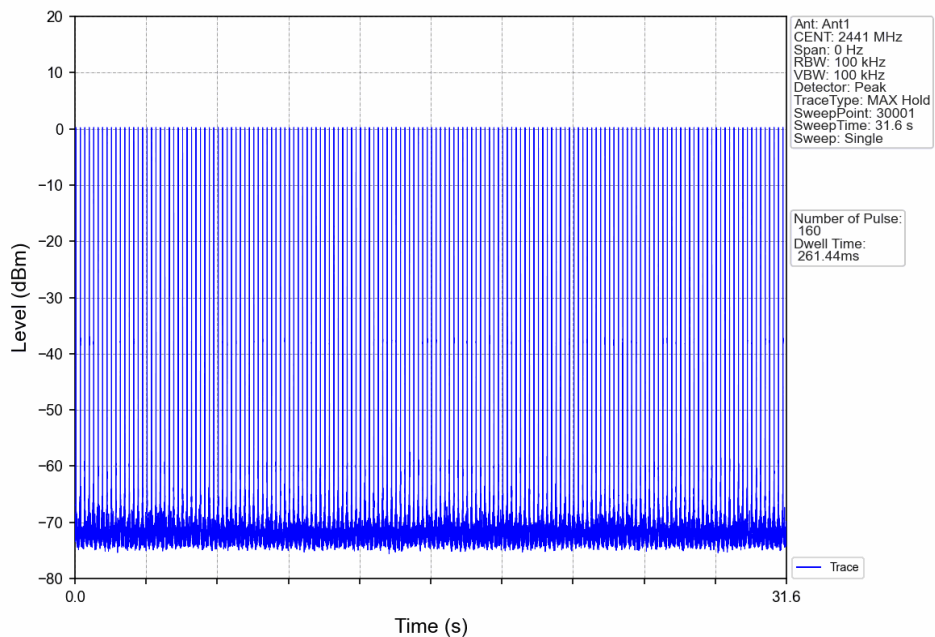
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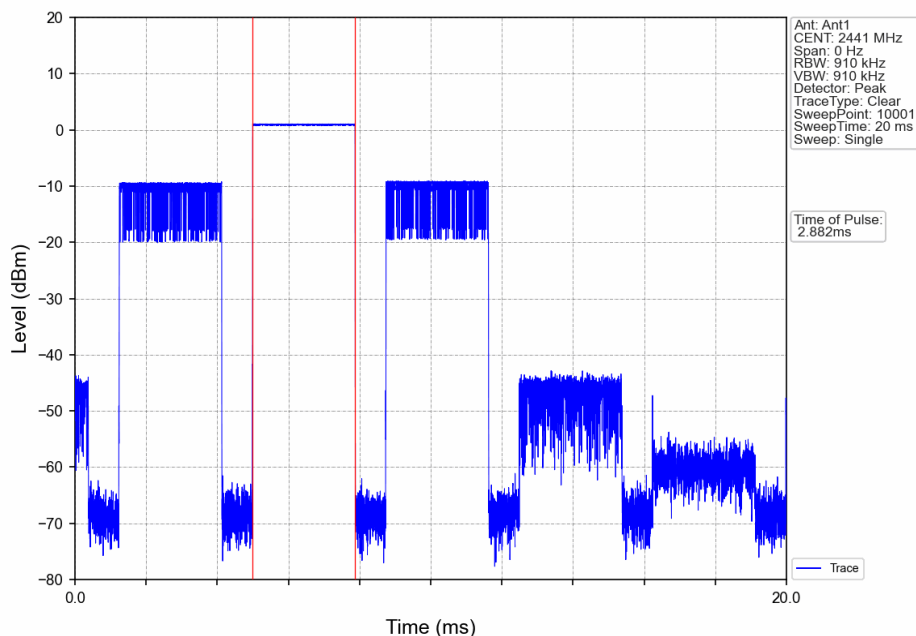


GFSK\_DH3\_HOPP\_Ant1\_NTNV

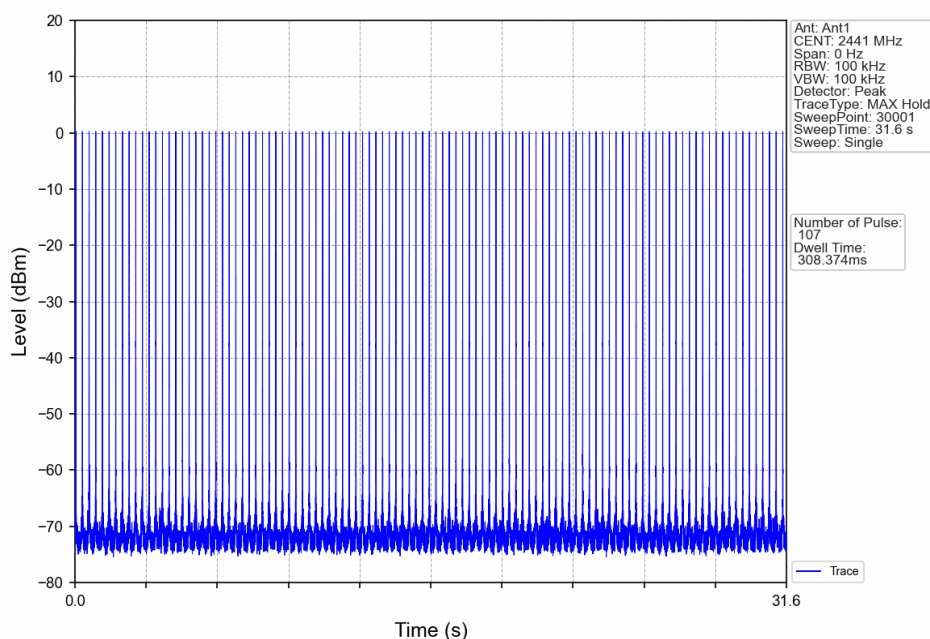




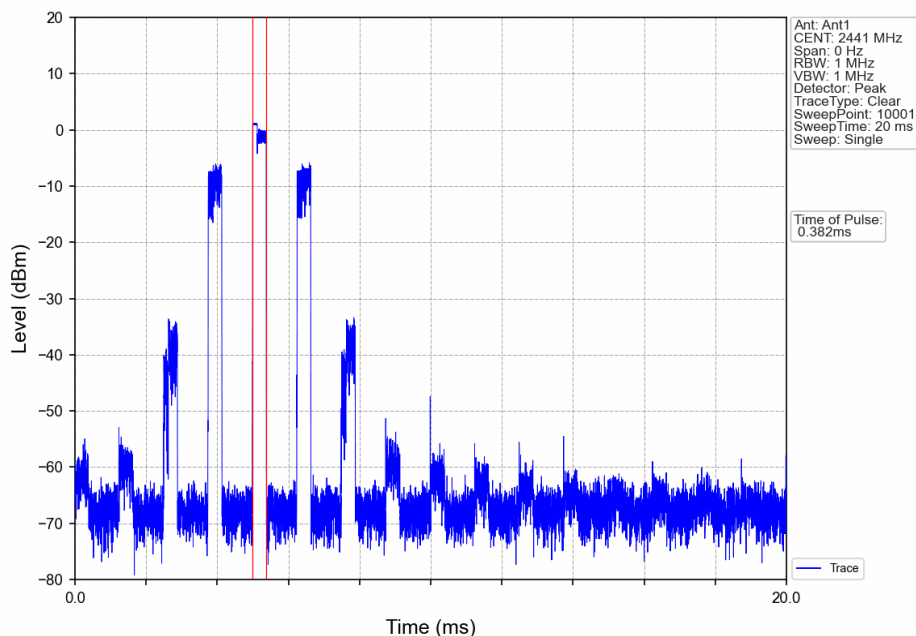
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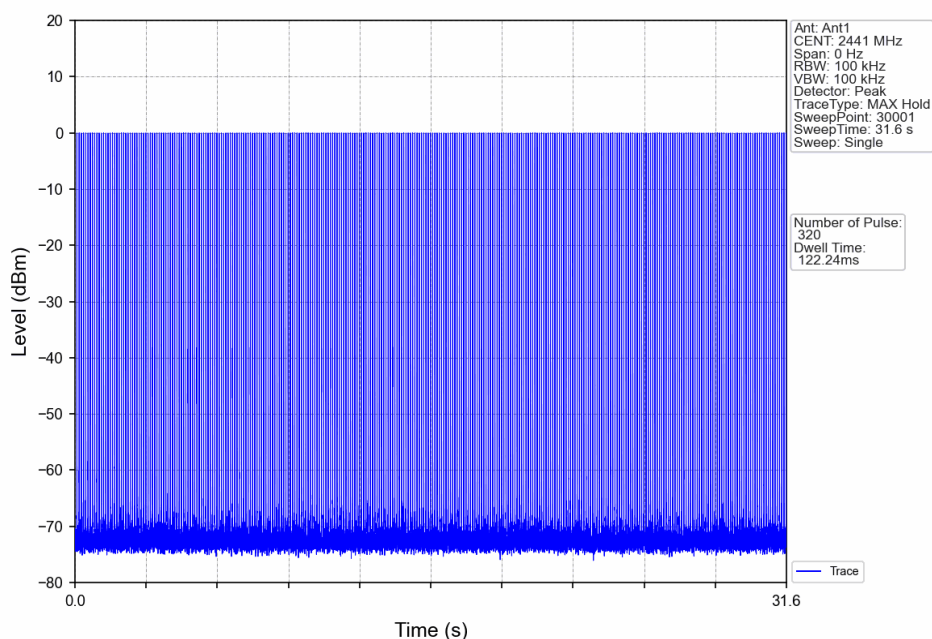
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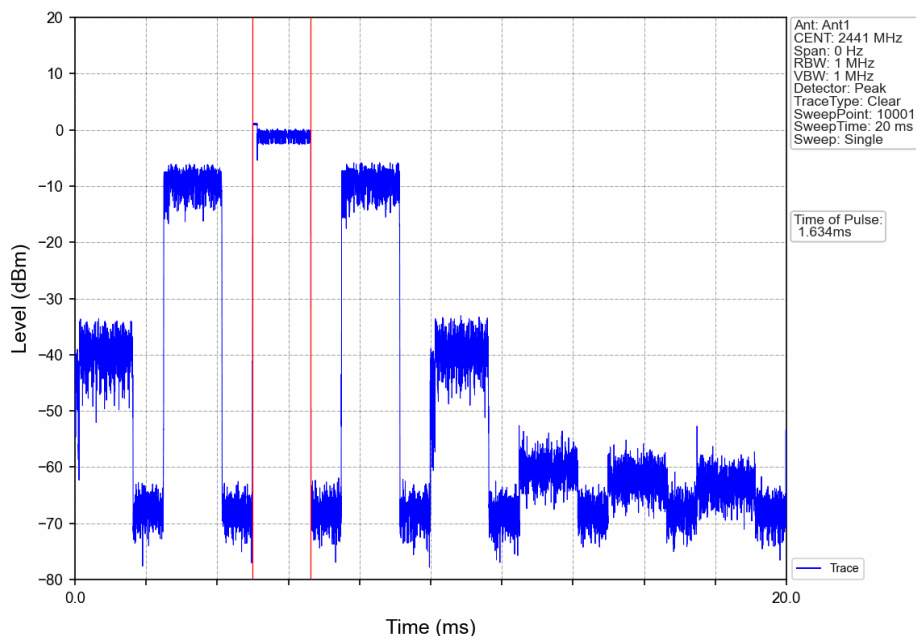
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



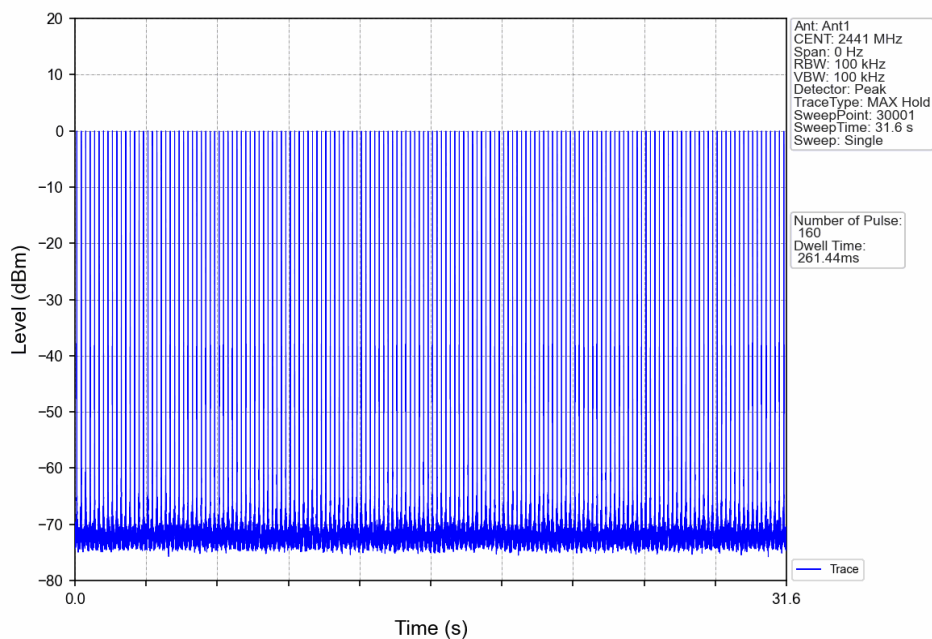
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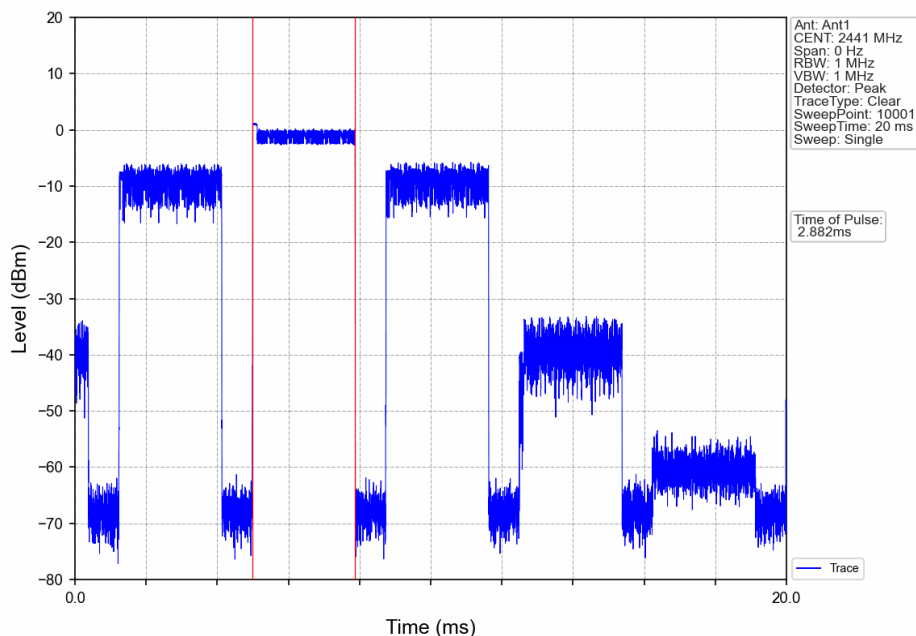
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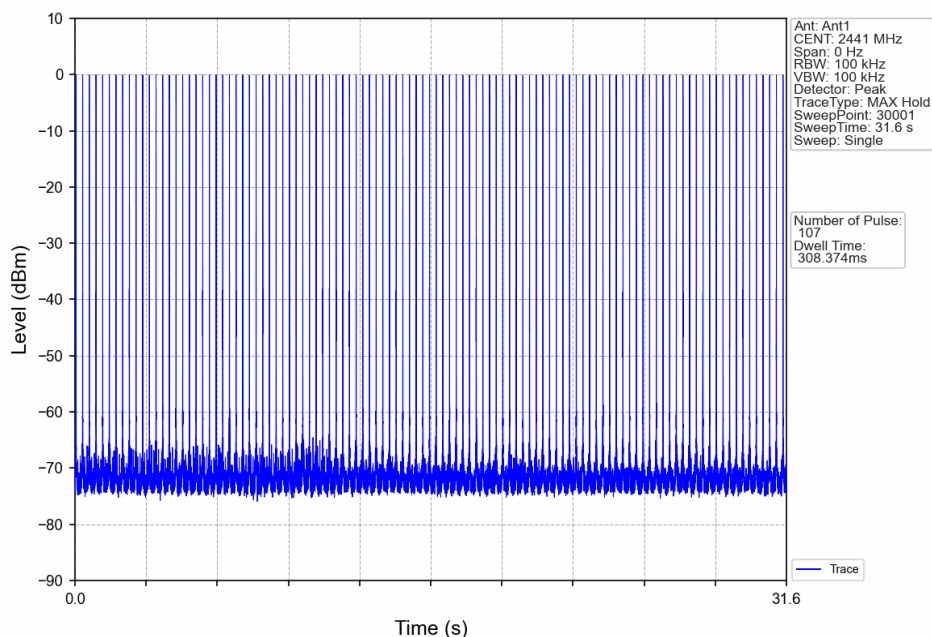
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



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

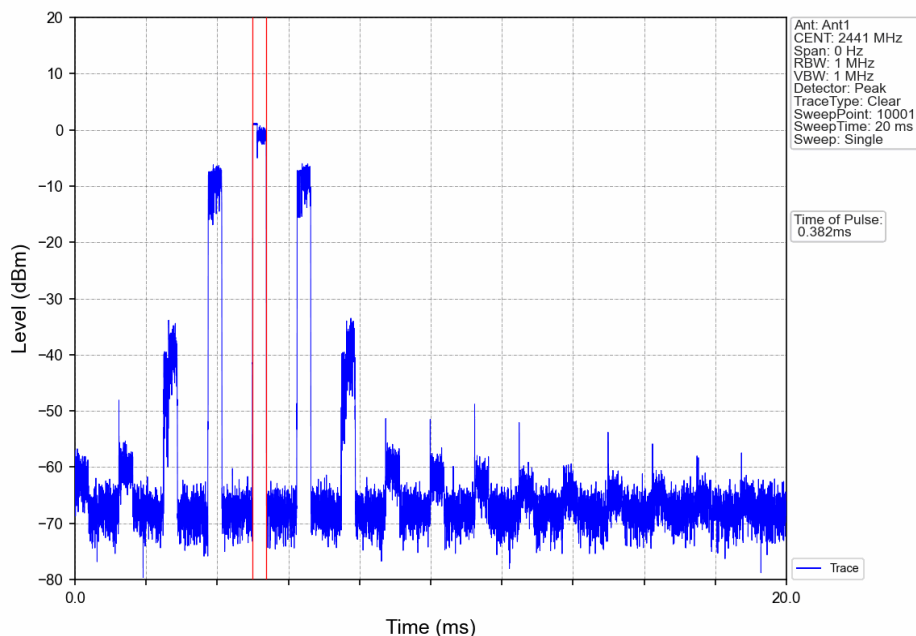


Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

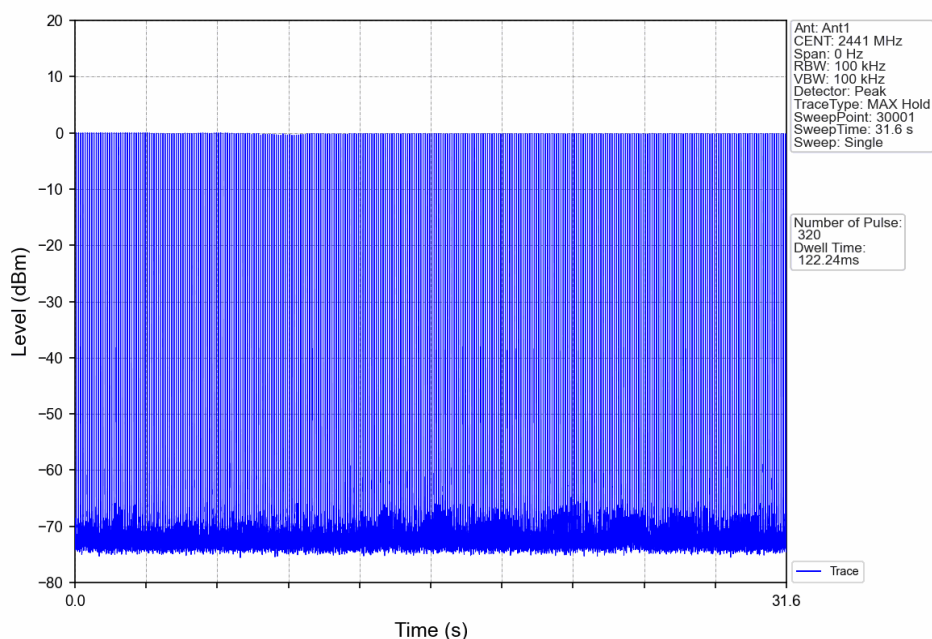




### 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV

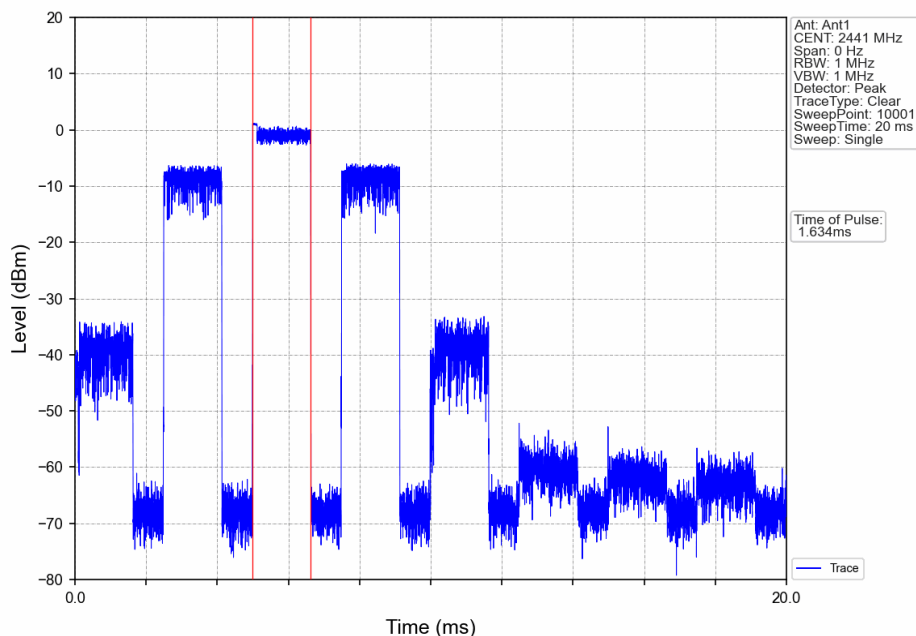


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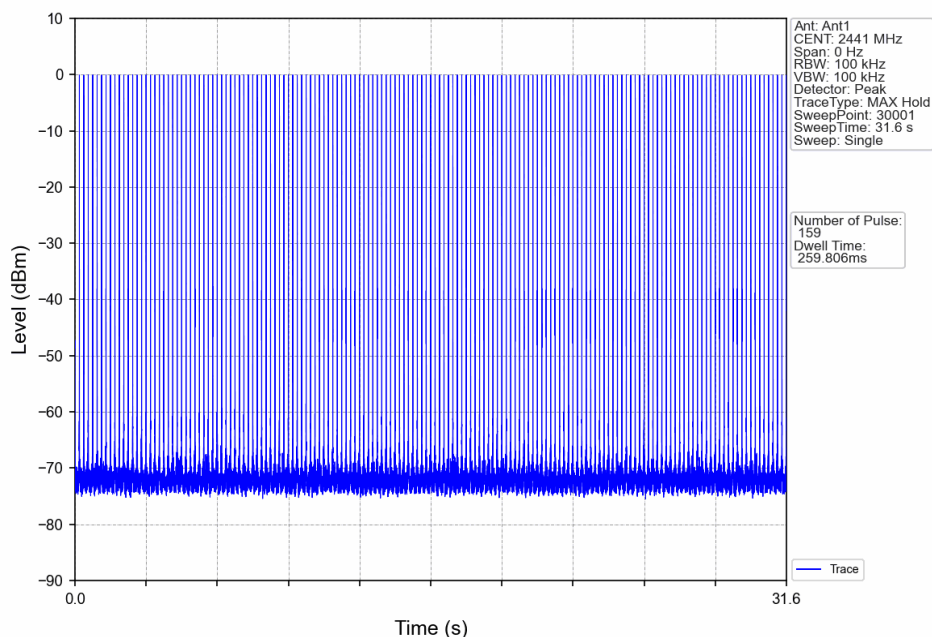




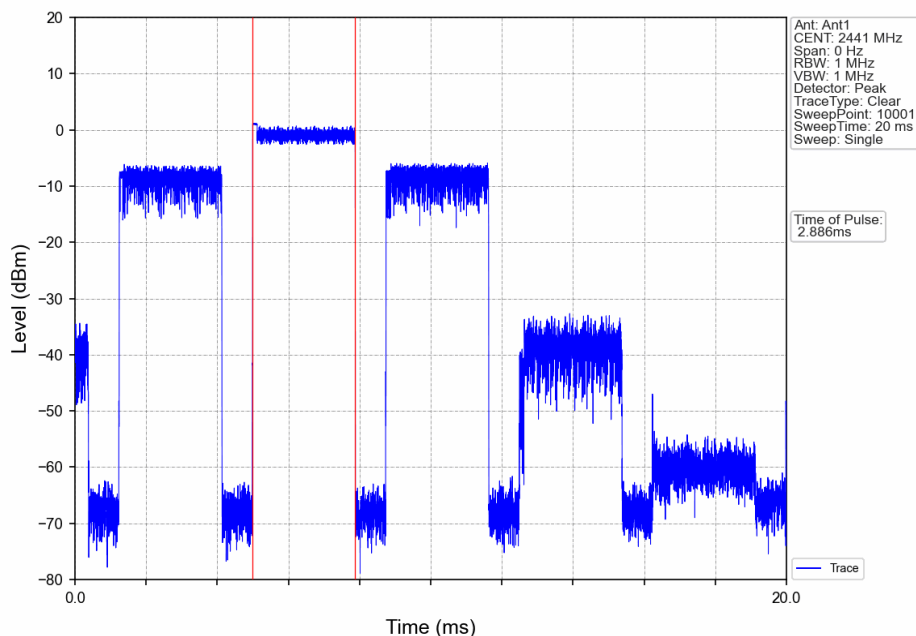
8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



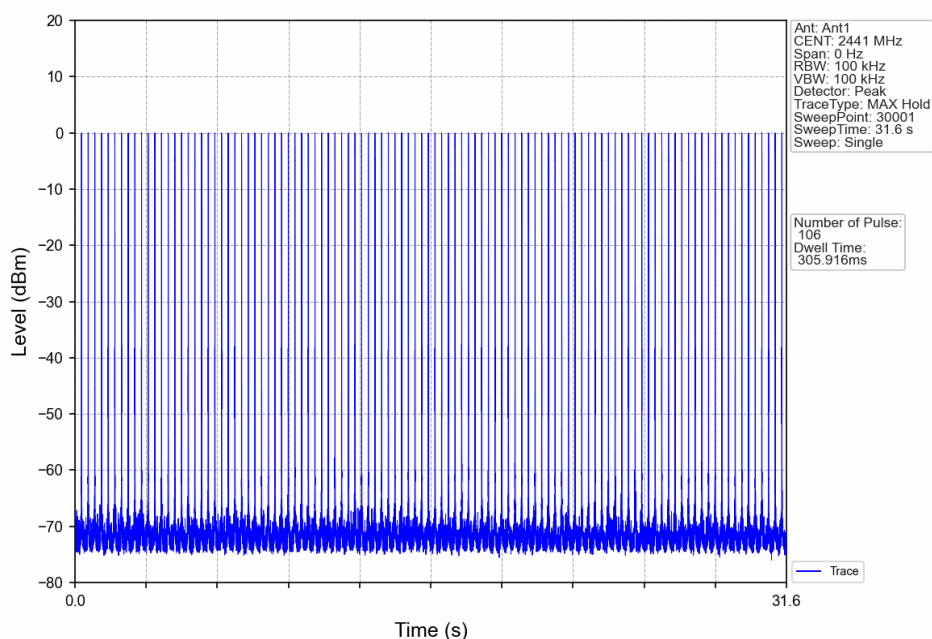
8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



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

### 7.1 Ref

#### 7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.71
		2441	DH5	1	1.08
		2480	DH5	1	1.11
Pi/4DQPSK	SISO	2402	2DH5	1	0.71
		2441	2DH5	1	1.09
		2480	2DH5	1	1.15
8DPSK	SISO	2402	3DH5	1	0.78
		2441	3DH5	1	1.13
		2480	3DH5	1	1.18

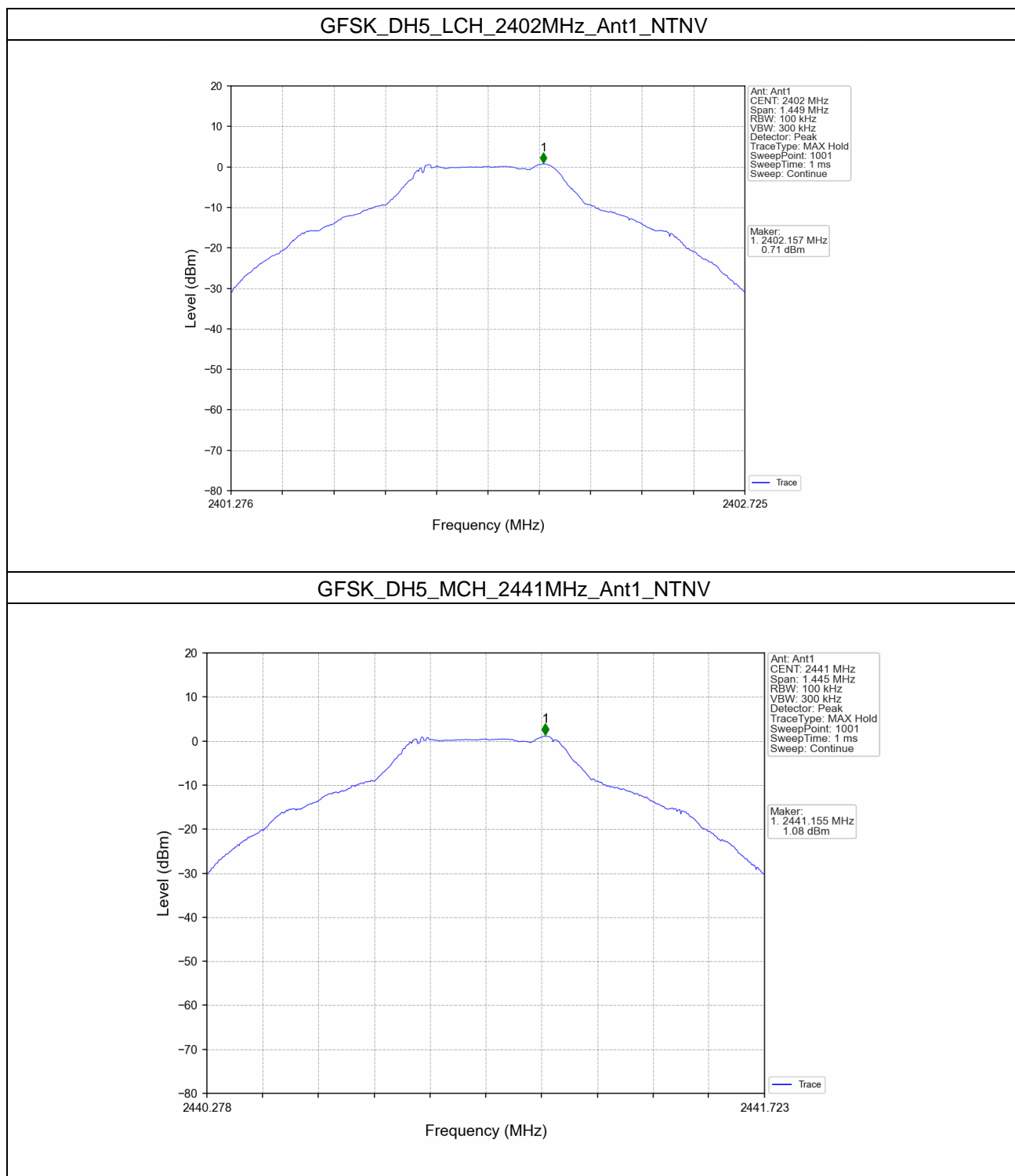


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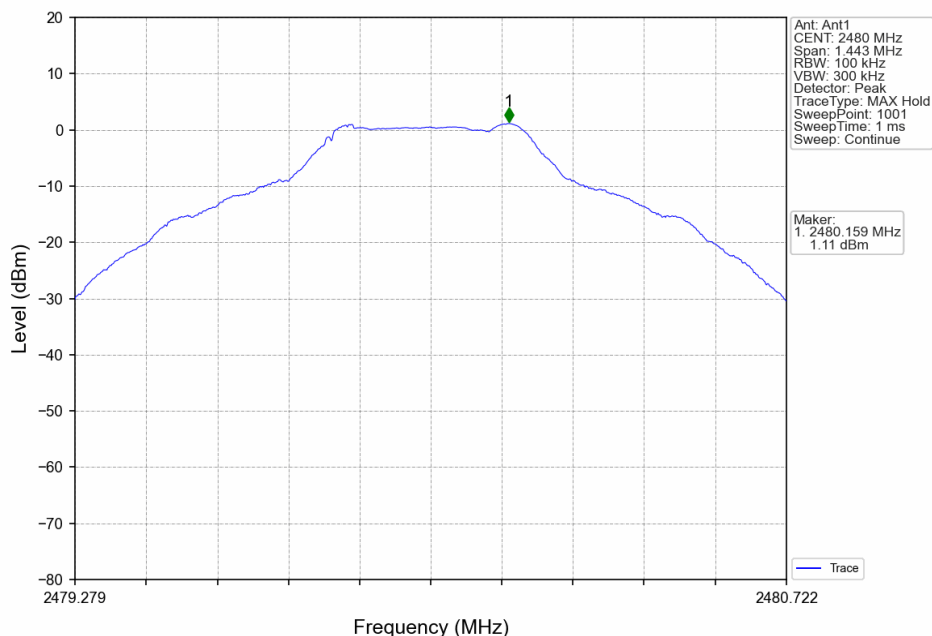
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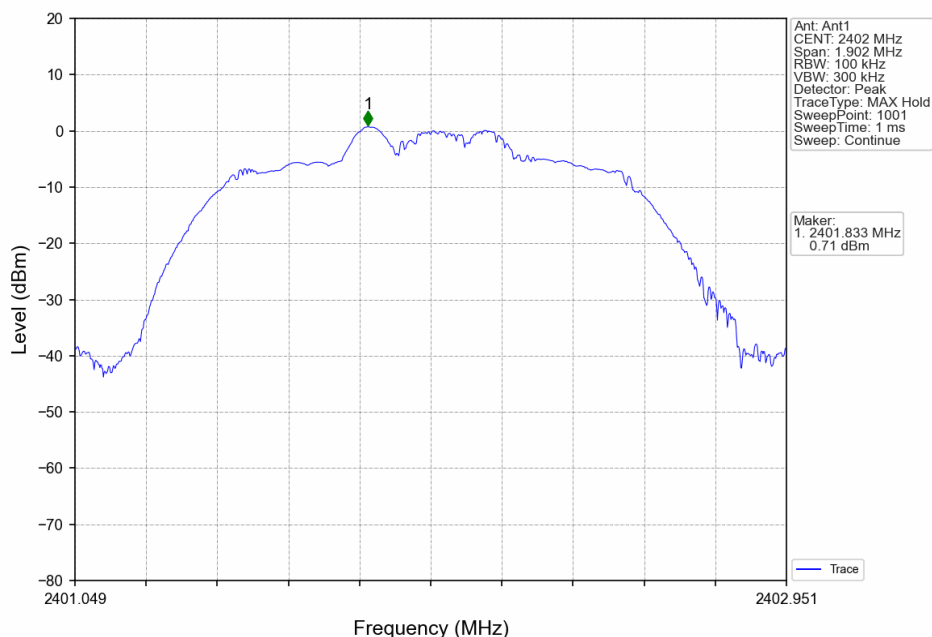
### 7.1.2 Test Graph



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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

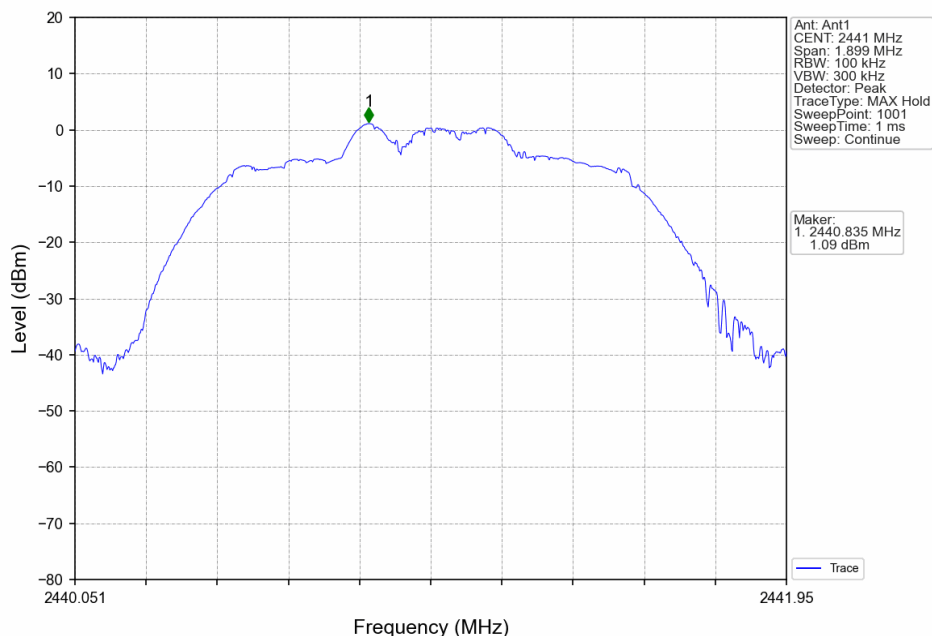


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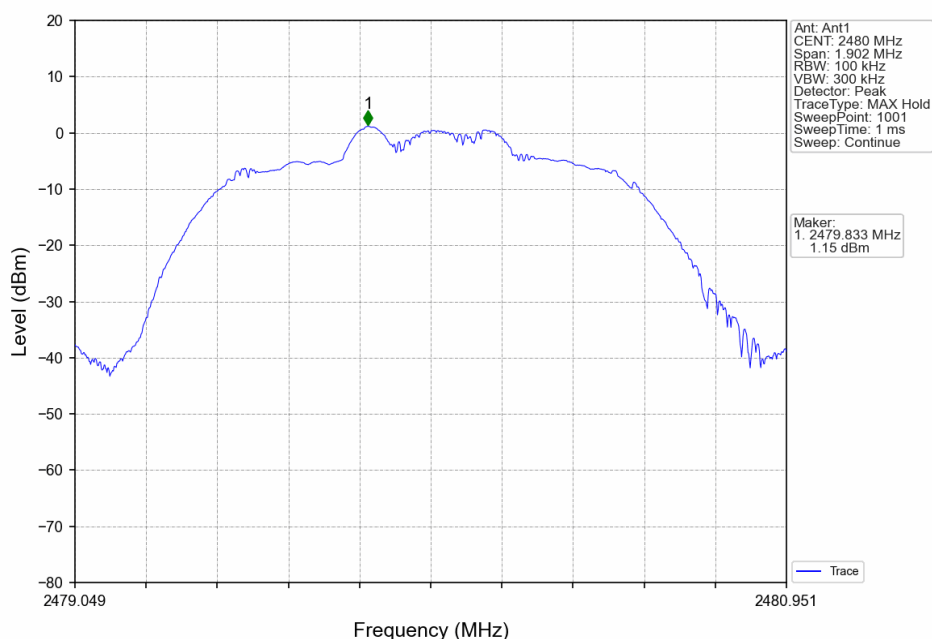
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Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



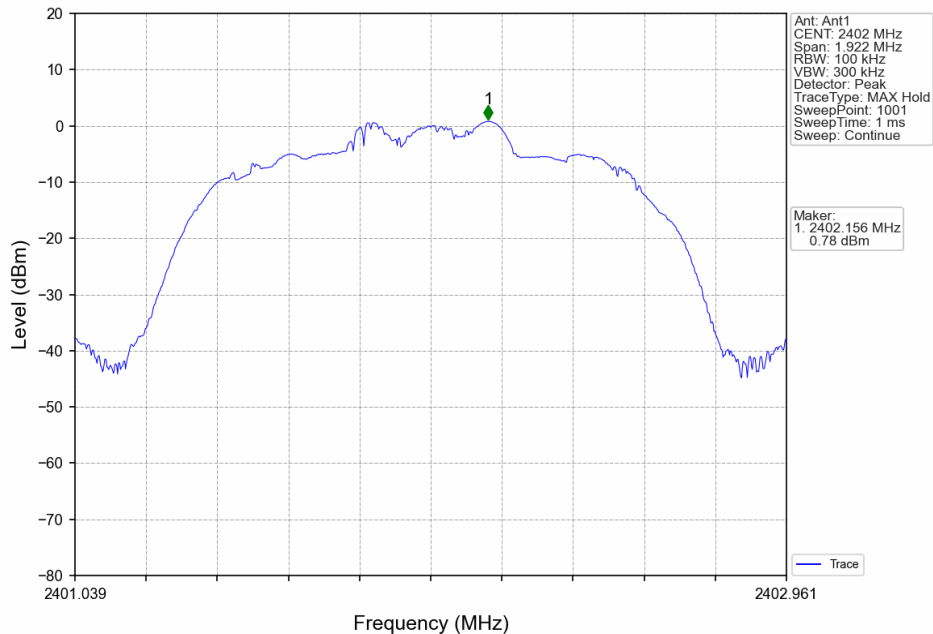
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



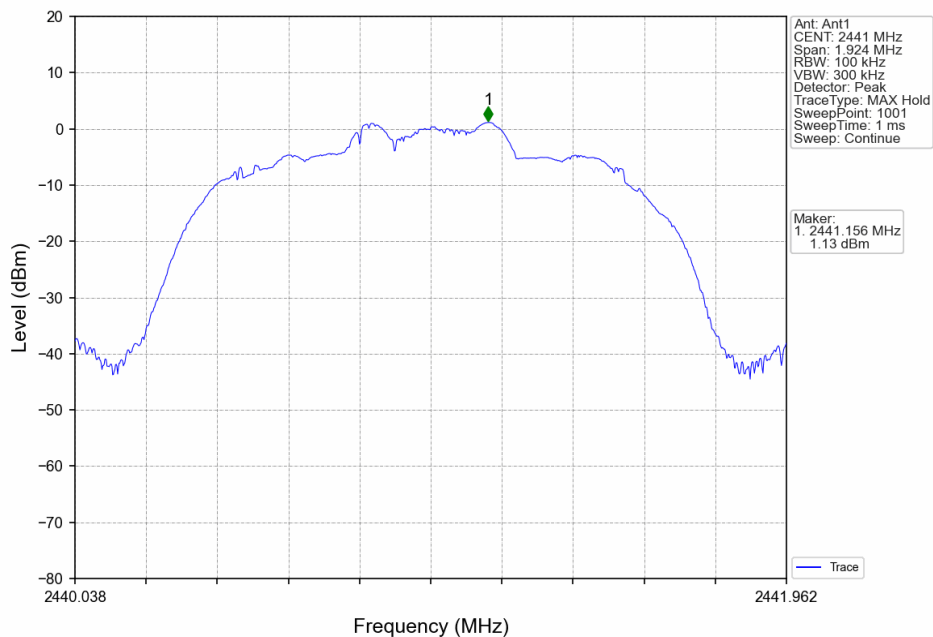
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



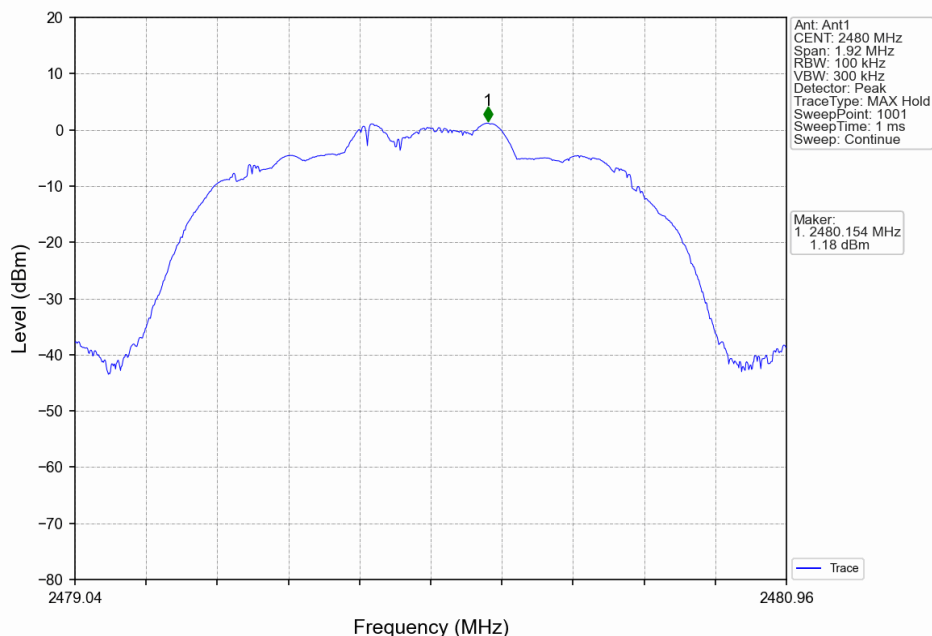
8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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## 7.2 CSE

### 7.2.1 Test Result

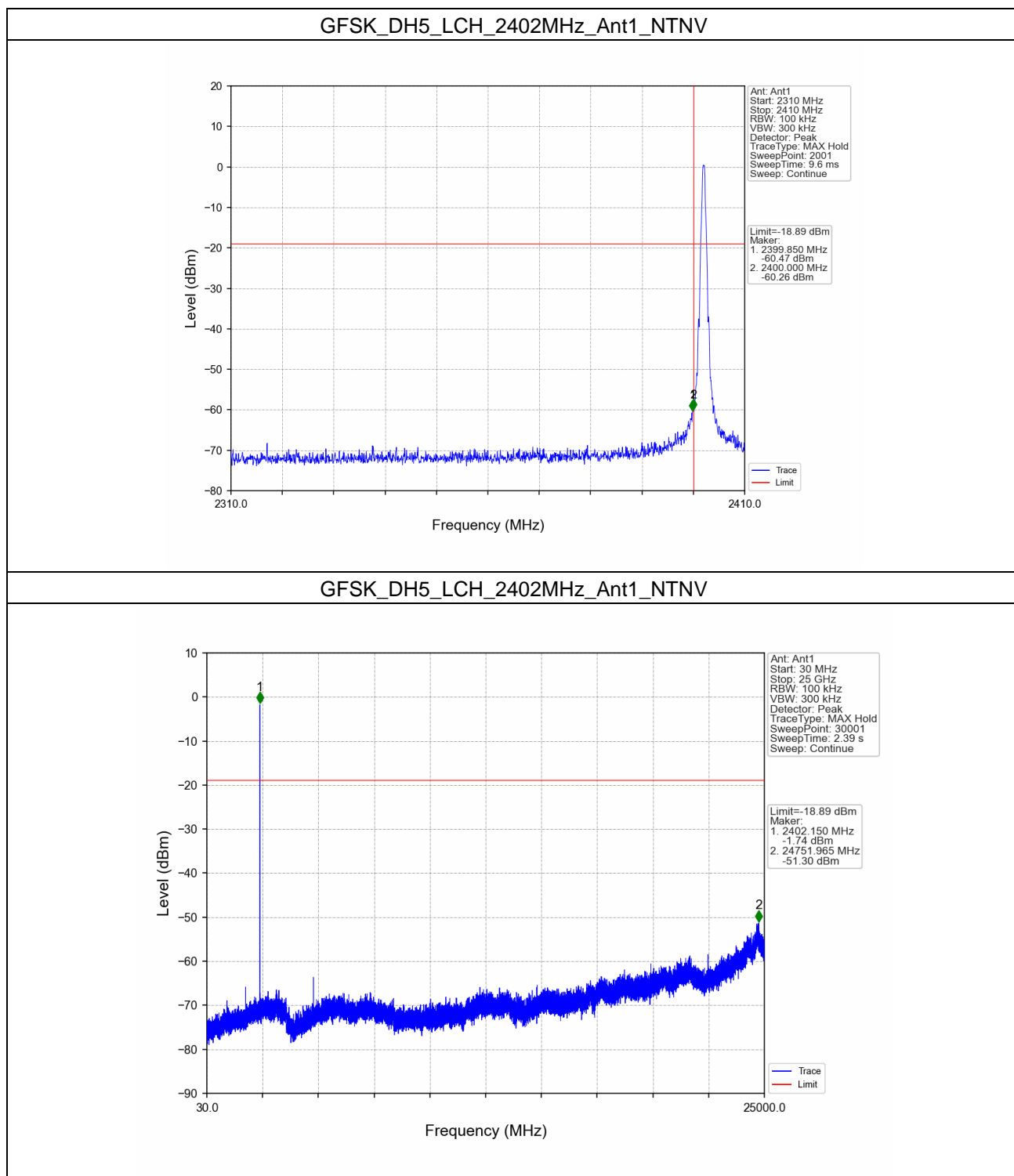
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.11	-18.89	Pass
		2441	DH5	1	1.11	-18.89	Pass
		2480	DH5	1	1.11	-18.89	Pass
		HOPP	DH5	1	1.11	-18.89	Pass
					1.11	-18.89	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.15	-18.85	Pass
		2441	2DH5	1	1.15	-18.85	Pass
		2480	2DH5	1	1.15	-18.85	Pass
		HOPP	2DH5	1	1.15	-18.85	Pass
					1.15	-18.85	Pass
8DPSK	SISO	2402	3DH5	1	1.18	-18.82	Pass
		2441	3DH5	1	1.18	-18.82	Pass
		2480	3DH5	1	1.18	-18.82	Pass
		HOPP	3DH5	1	1.18	-18.82	Pass
					1.18	-18.82	Pass



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### 7.2.2 Test Graph



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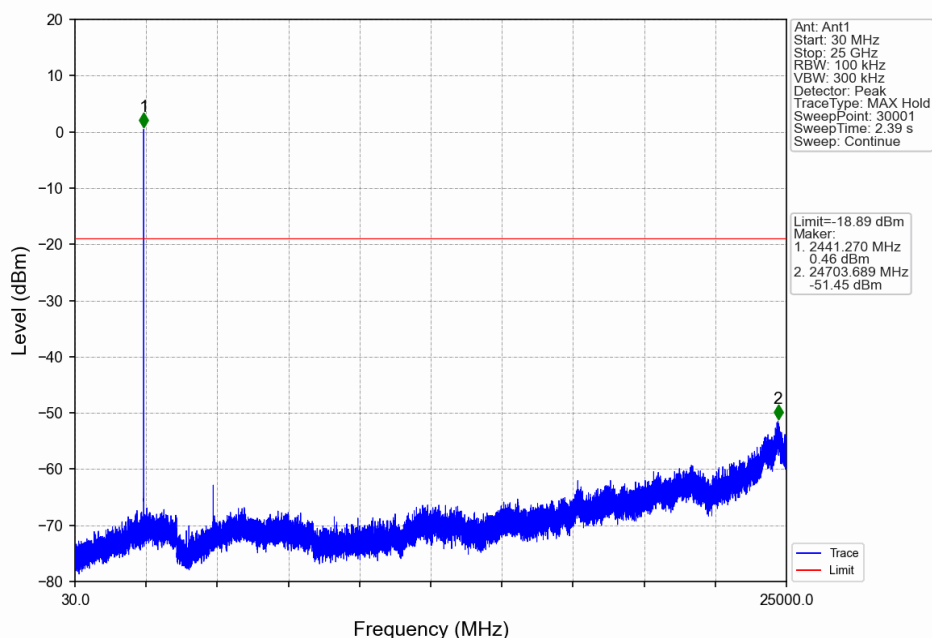
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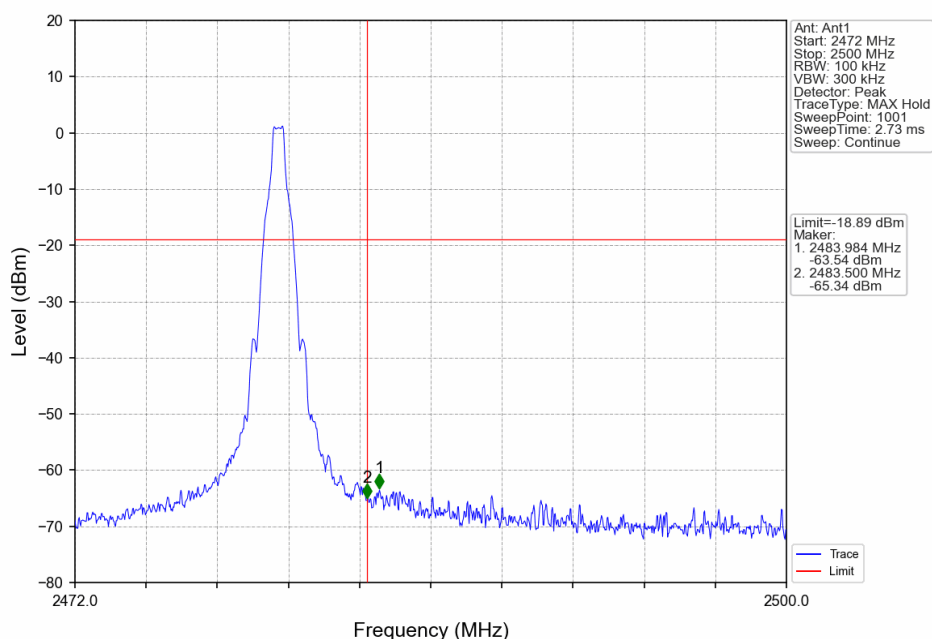
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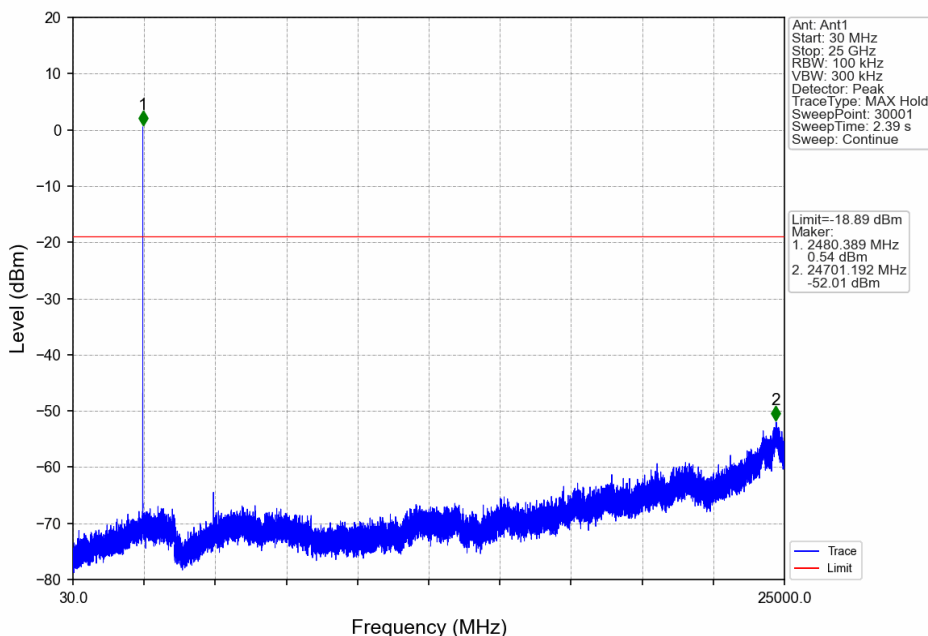
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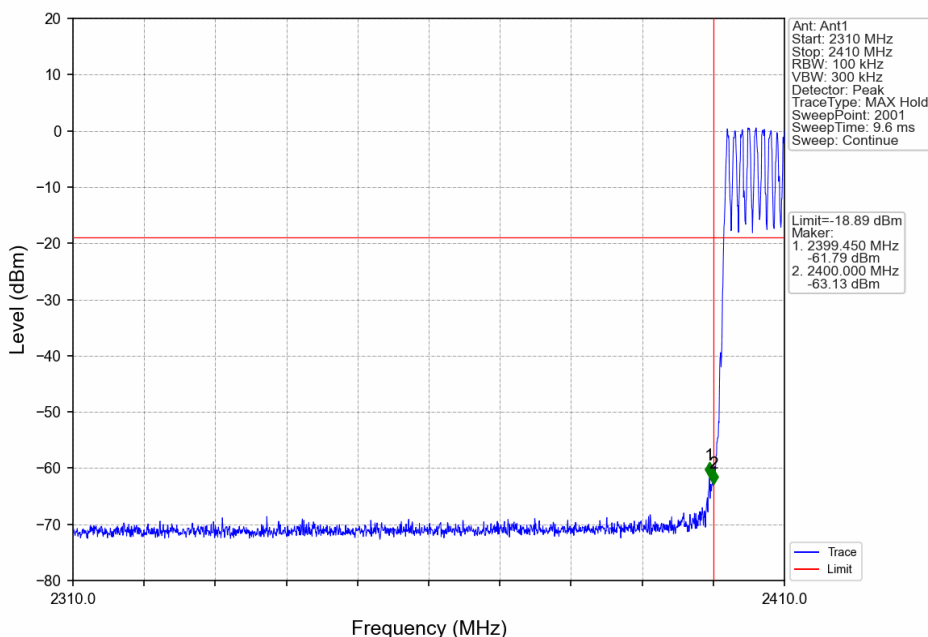
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### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



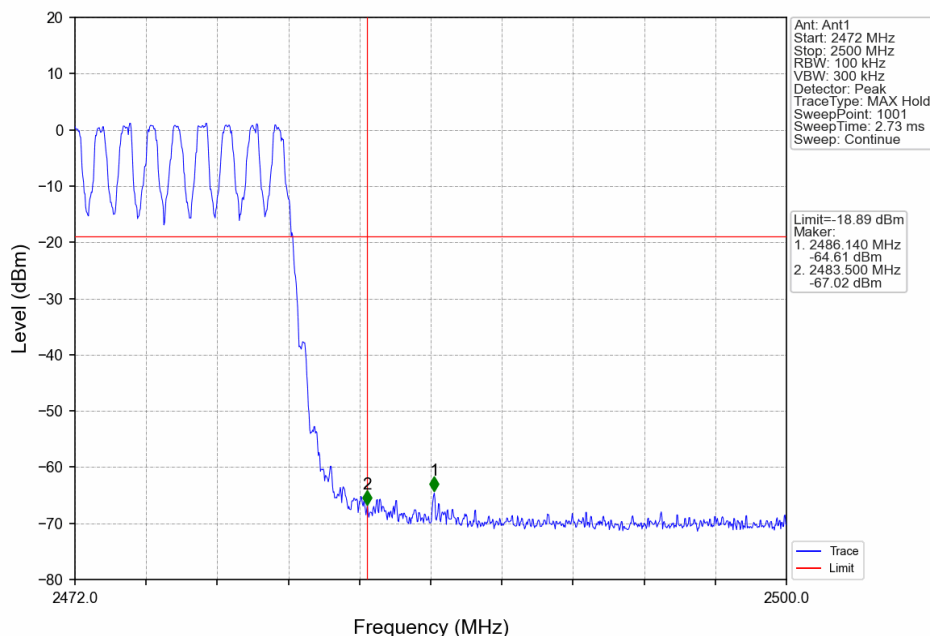
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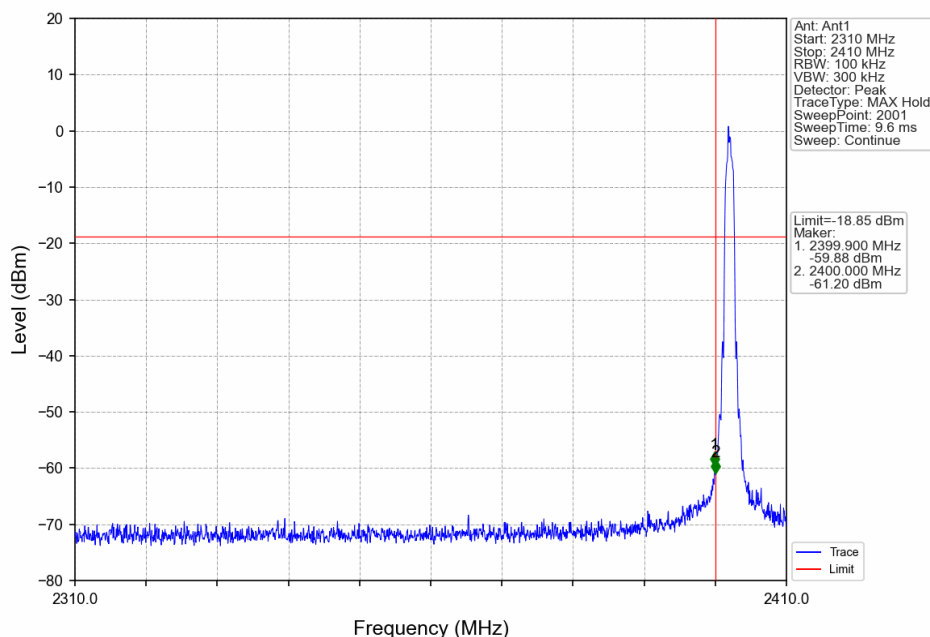
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GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



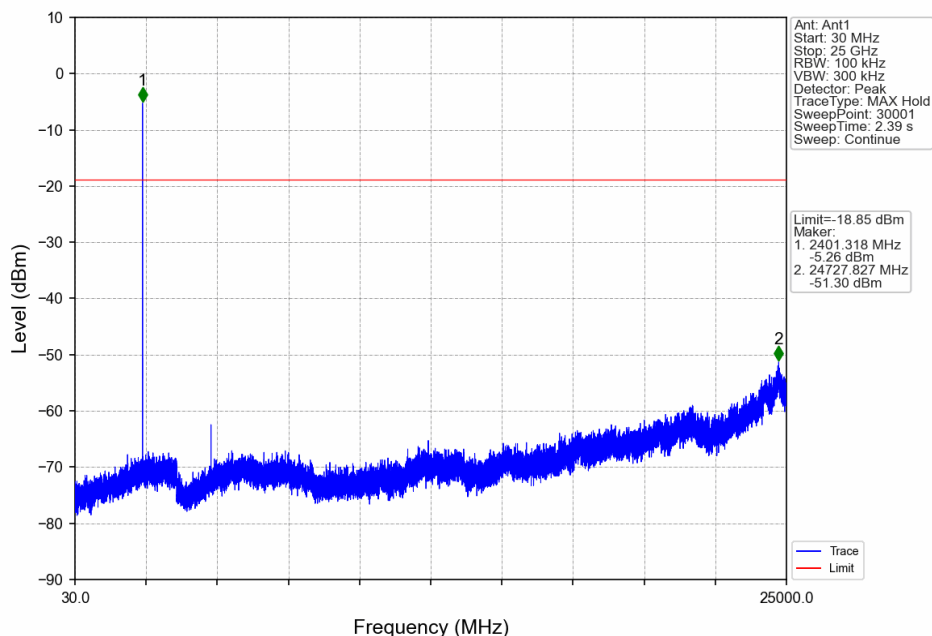
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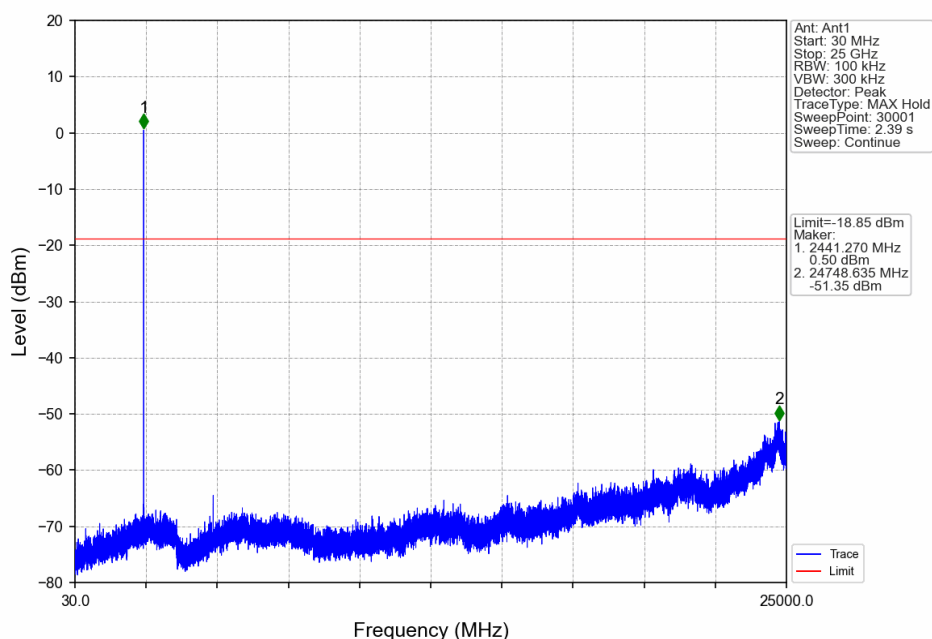
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Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

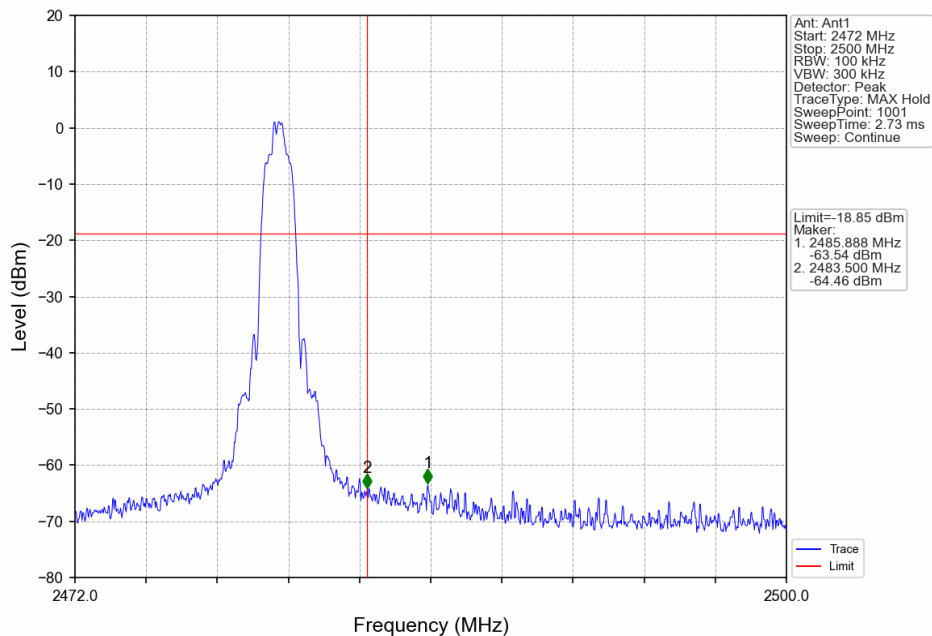


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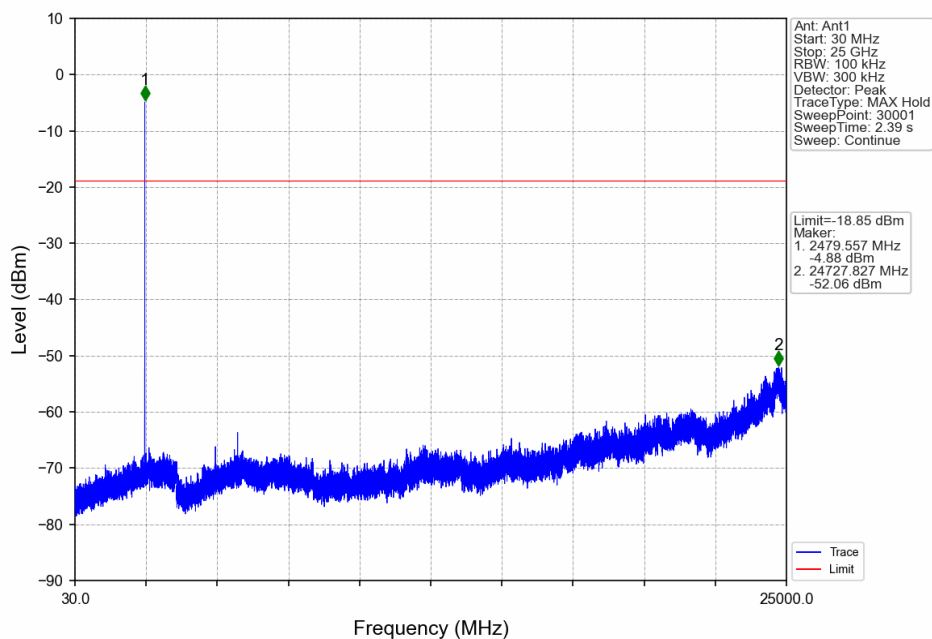




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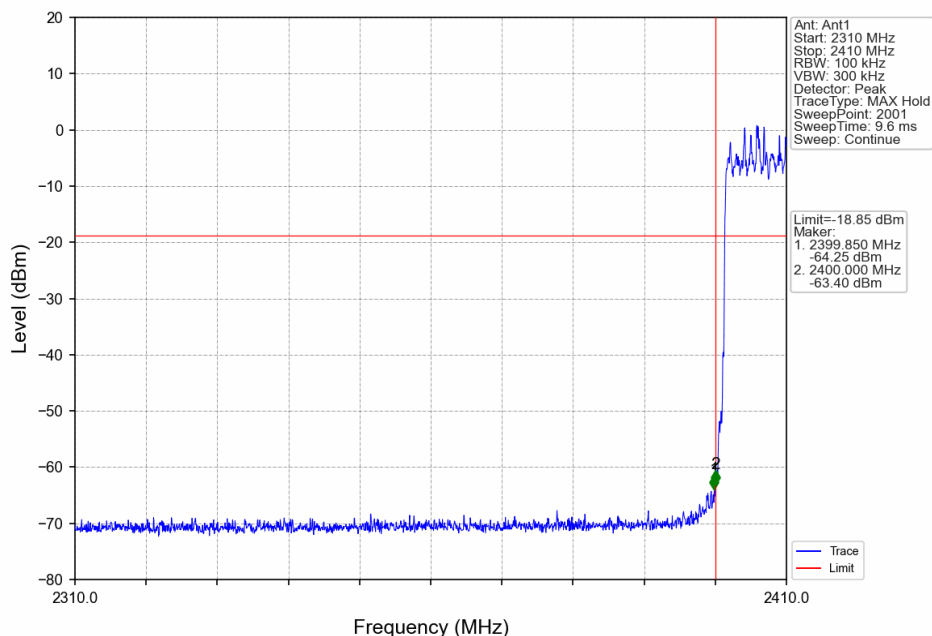


Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

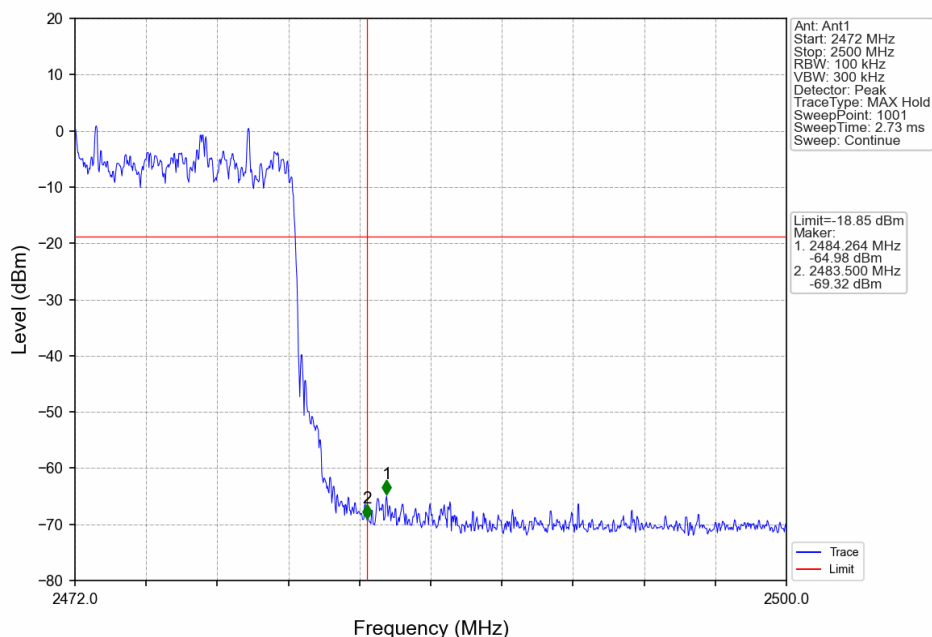




### Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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



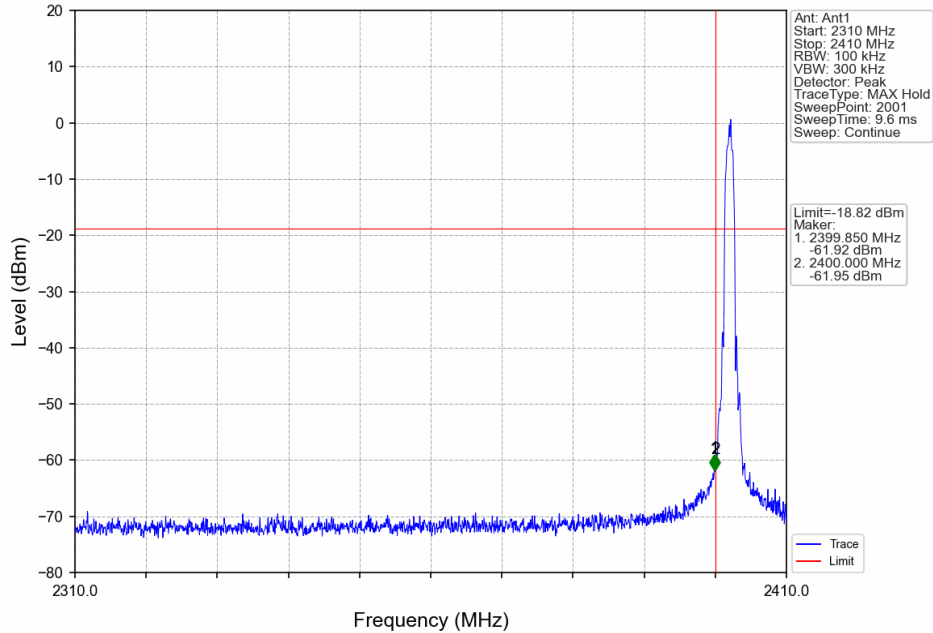
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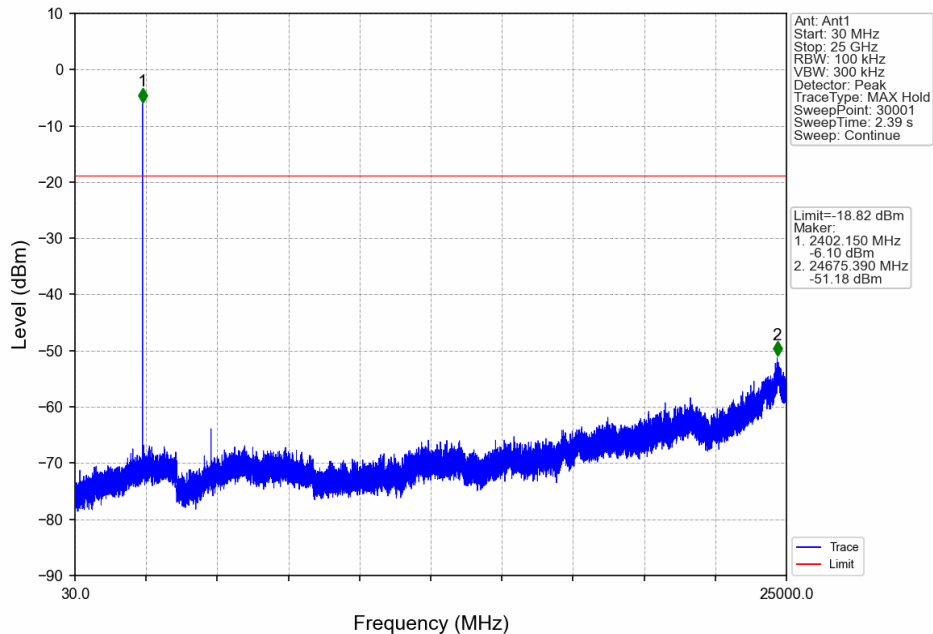
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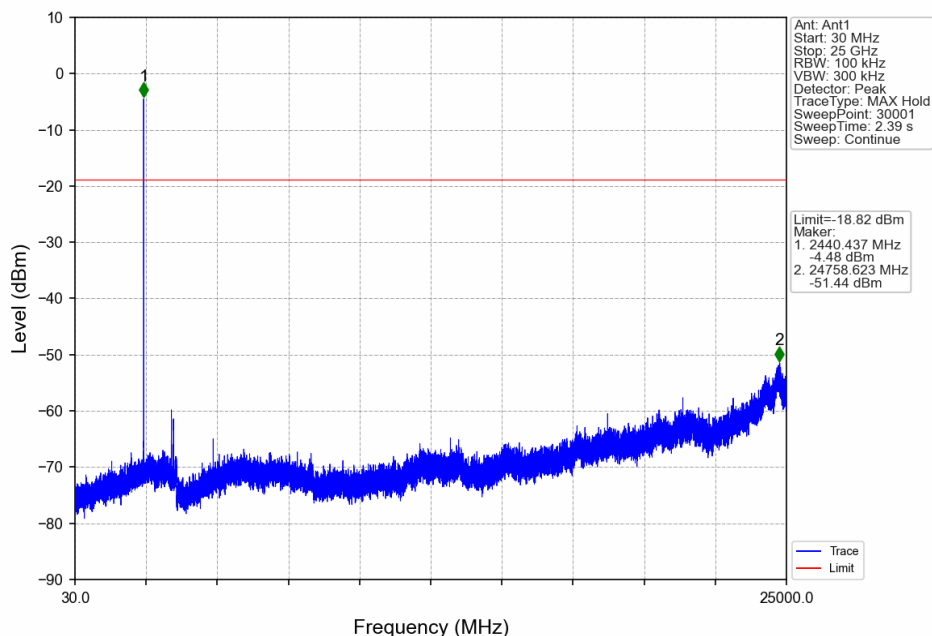
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



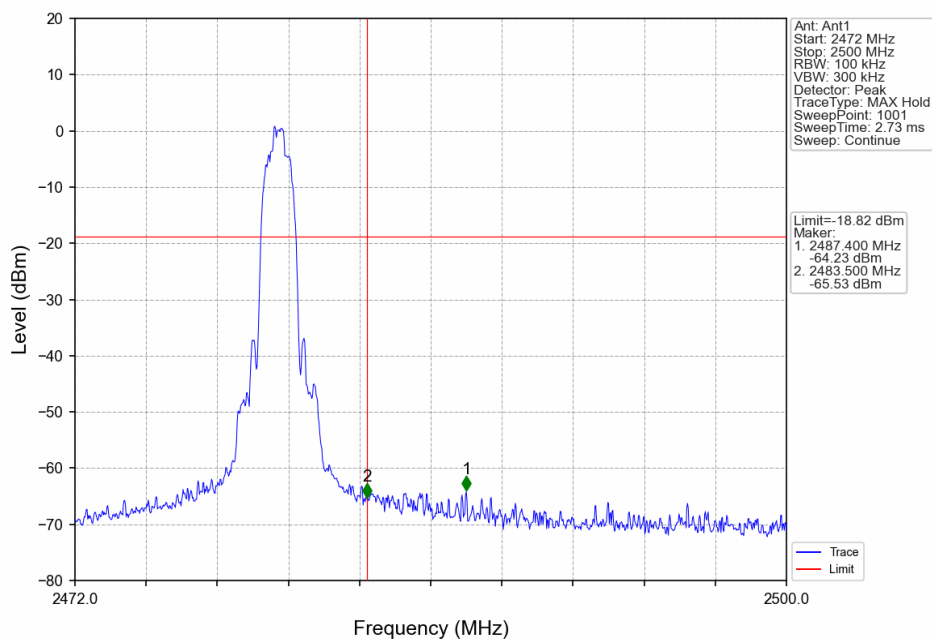
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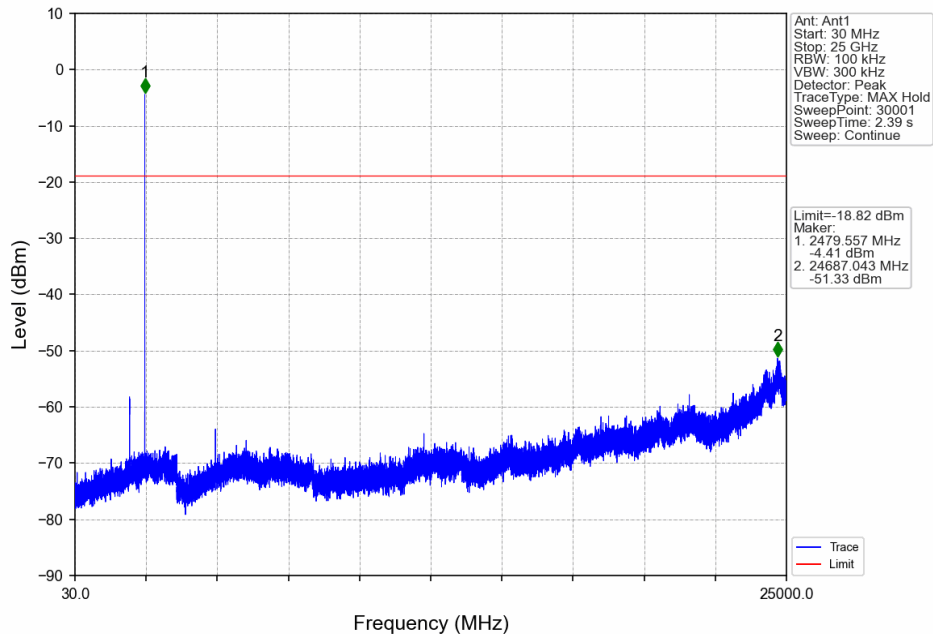
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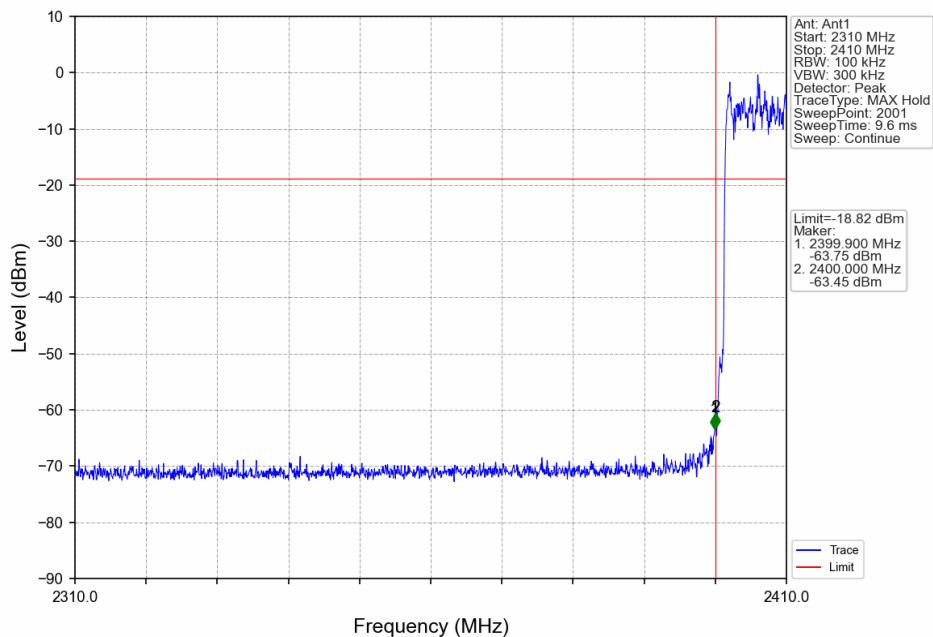
### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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



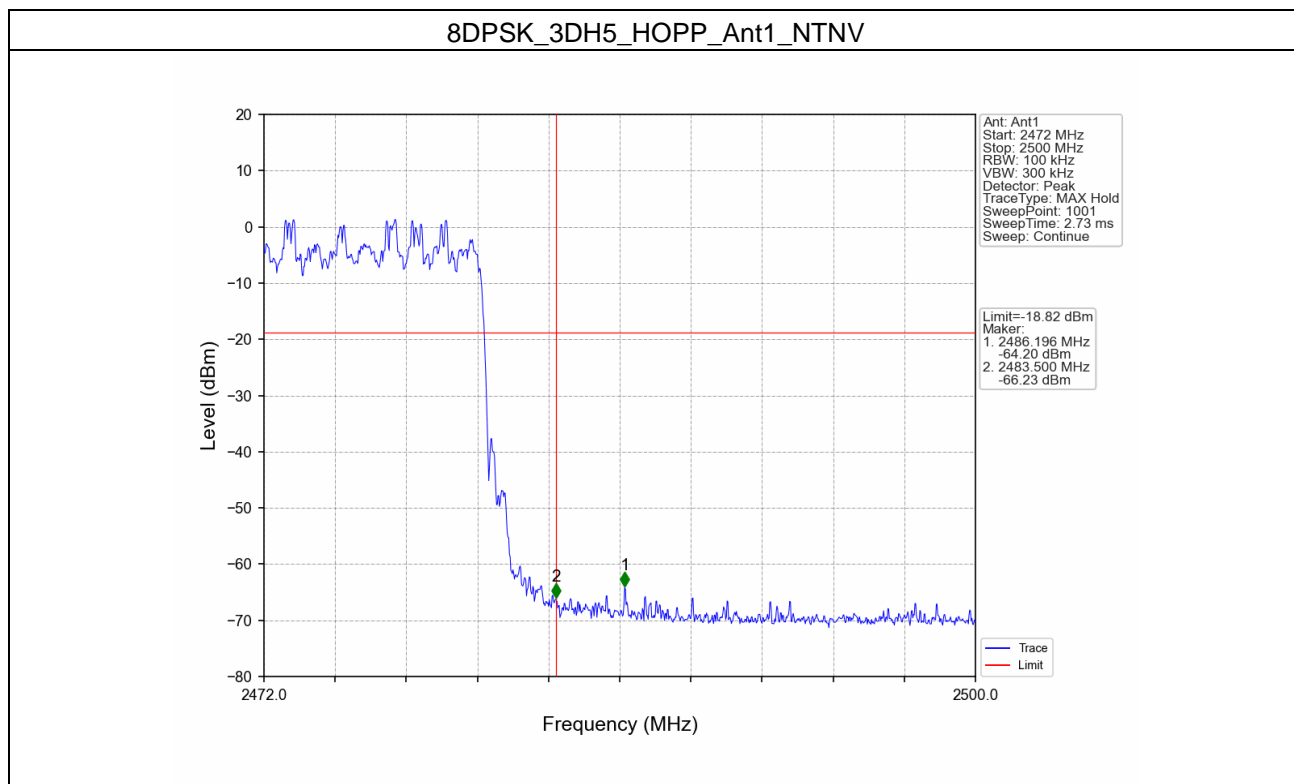
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- End of the Report -