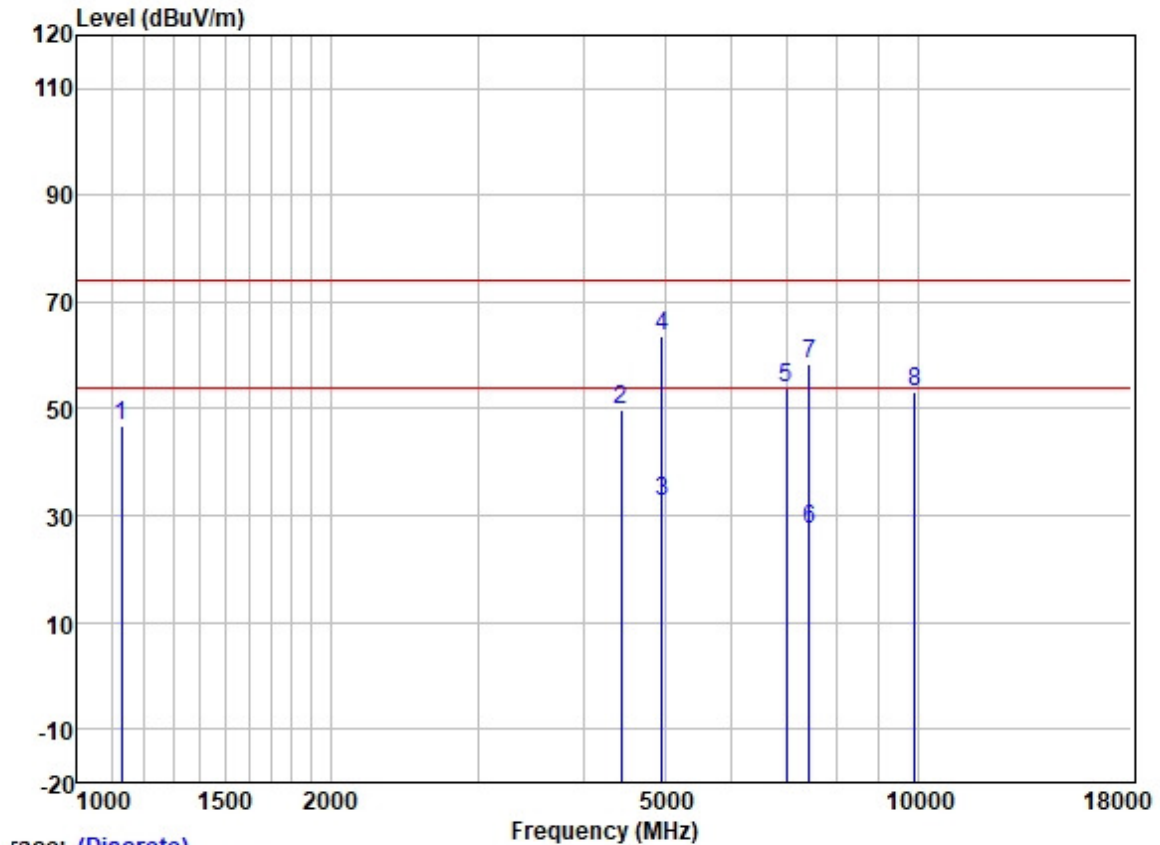


Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



race: (Discrete)

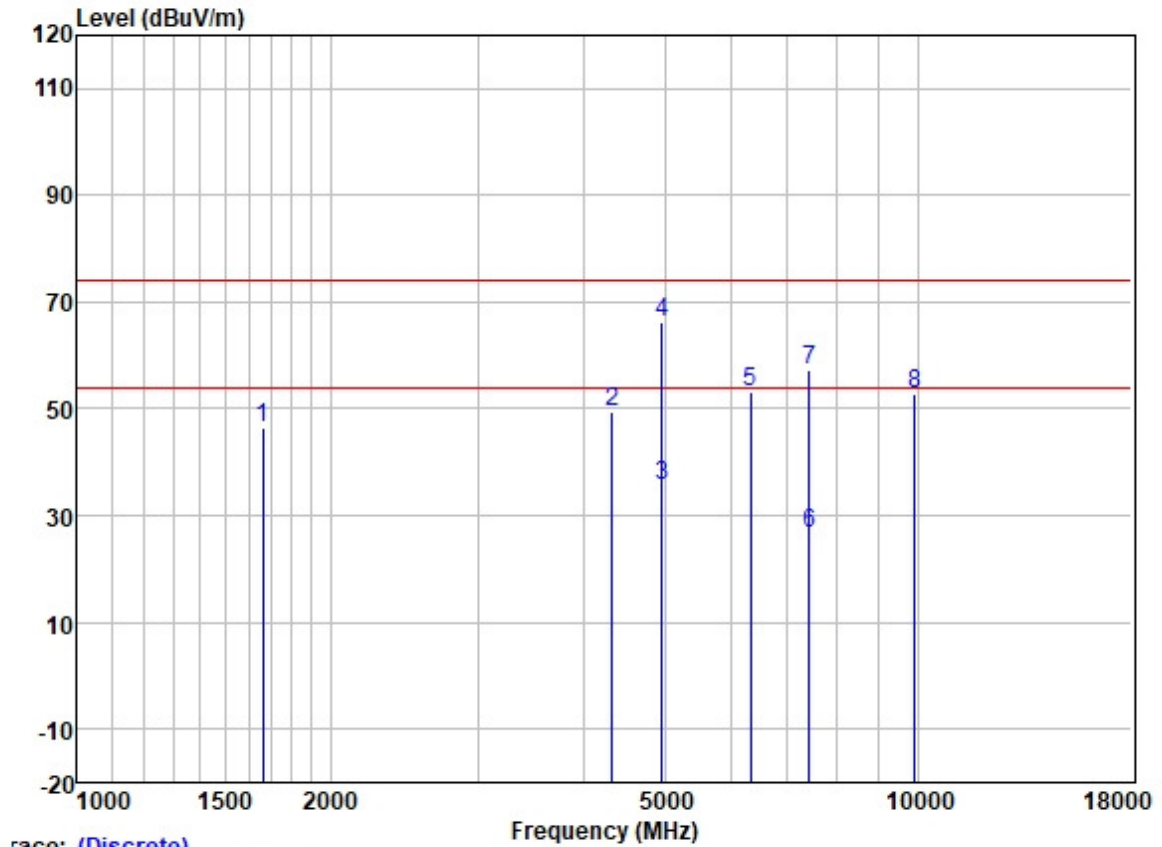
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1129.072	58.50	24.43	2.20	38.43	46.70	74.00	-27.30	HORIZONTAL	Peak
2	4443.453	51.17	30.73	4.83	36.81	49.92	74.00	-24.08	HORIZONTAL	Peak
3	4960.000	32.23	31.65	5.65	36.84	32.69	54.00	-21.31	HORIZONTAL	Average
4	4960.000	63.04	31.65	5.65	36.84	63.50	74.00	-10.50	HORIZONTAL	Peak
5	6974.982	50.43	34.97	5.81	37.23	53.98	74.00	-20.02	HORIZONTAL	Peak
6	7440.000	22.45	36.27	6.22	37.47	27.47	54.00	-26.53	HORIZONTAL	Average
7	7440.000	53.26	36.27	6.22	37.47	58.28	74.00	-15.72	HORIZONTAL	Peak
8	9920.000	44.97	38.65	6.96	37.40	53.18	74.00	-20.82	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; ; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	55.92	25.65	2.80	37.91	46.46	74.00	-27.54	VERTICAL	Peak
2	4329.354	51.15	30.54	4.67	36.81	49.55	74.00	-24.45	VERTICAL	Peak
3	4960.000	35.15	31.65	5.65	36.84	35.61	54.00	-18.39	VERTICAL	Average
4	4960.000	65.96	31.65	5.65	36.84	66.42	74.00	-7.58	VERTICAL	Peak
5	6322.136	50.53	33.51	5.95	36.97	53.02	74.00	-20.98	VERTICAL	Peak
6	7440.000	21.53	36.27	6.22	37.47	26.55	54.00	-27.45	VERTICAL	Average
7	7440.000	52.34	36.27	6.22	37.47	57.36	74.00	-16.64	VERTICAL	Peak
8	9920.000	44.50	38.65	6.96	37.40	52.71	74.00	-21.29	VERTICAL	Peak



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## 8 Test Setup Photo

Refer to Appendix\_SetupPhoto for GZCR2112021462AT

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2112021462AT



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## 10 Appendix

For left earbuds:

### 1. Bandwidth

#### 1.1 20dB BW

##### 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.933	Pass
		2441	DH5	1	0.931	Pass
		2480	DH5	1	0.934	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.282	Pass
		2441	2DH5	1	1.285	Pass
		2480	2DH5	1	1.286	Pass

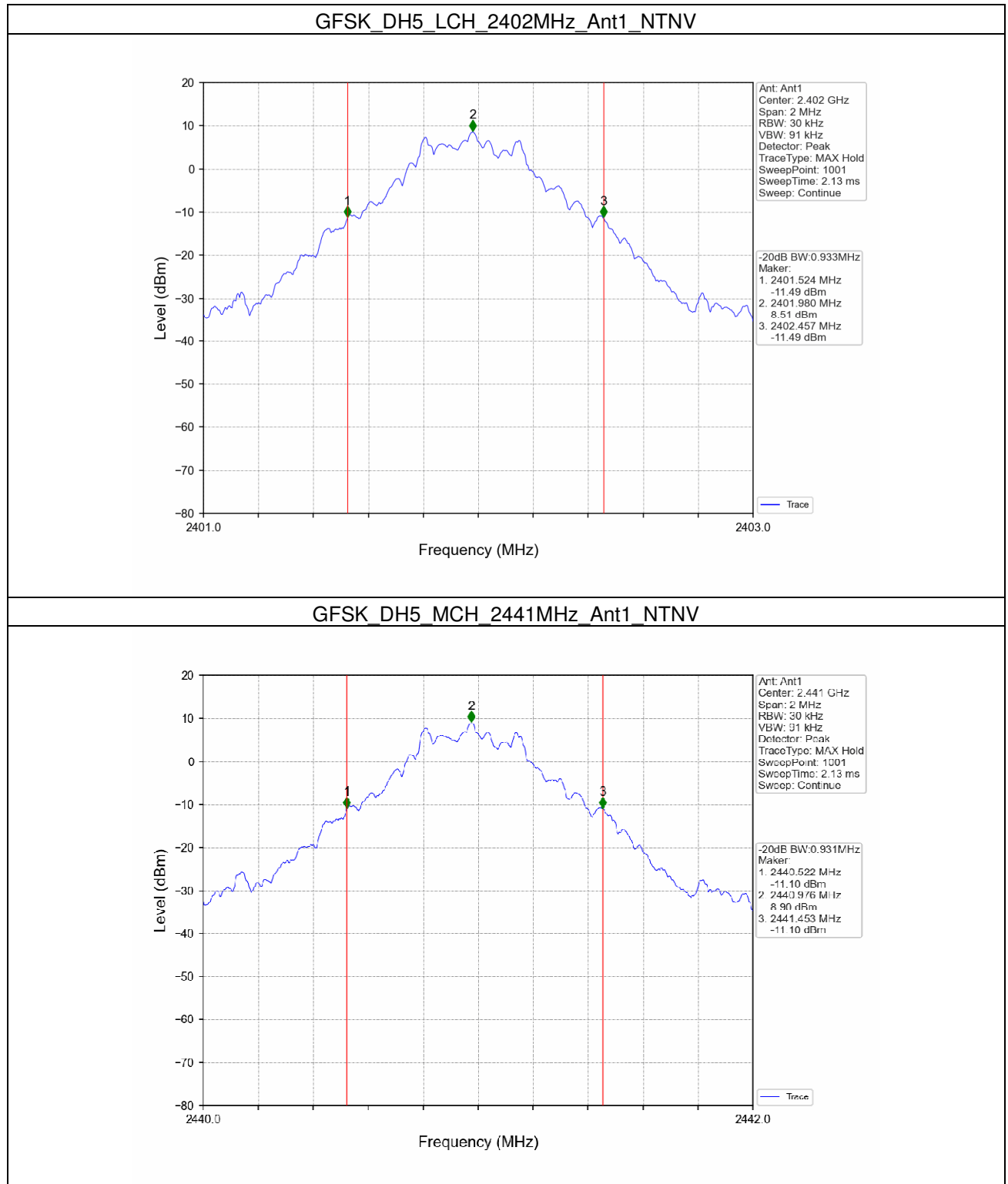


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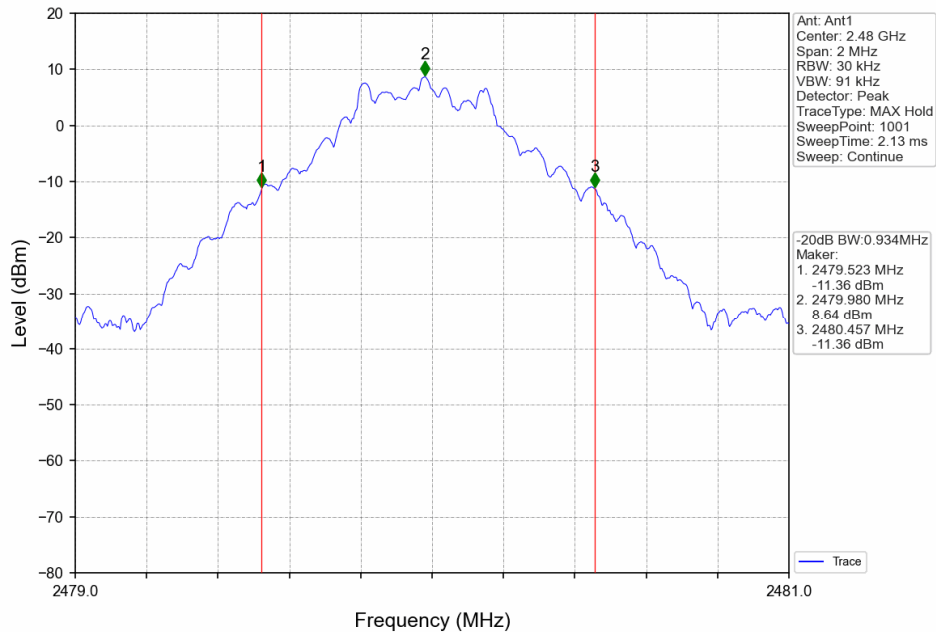
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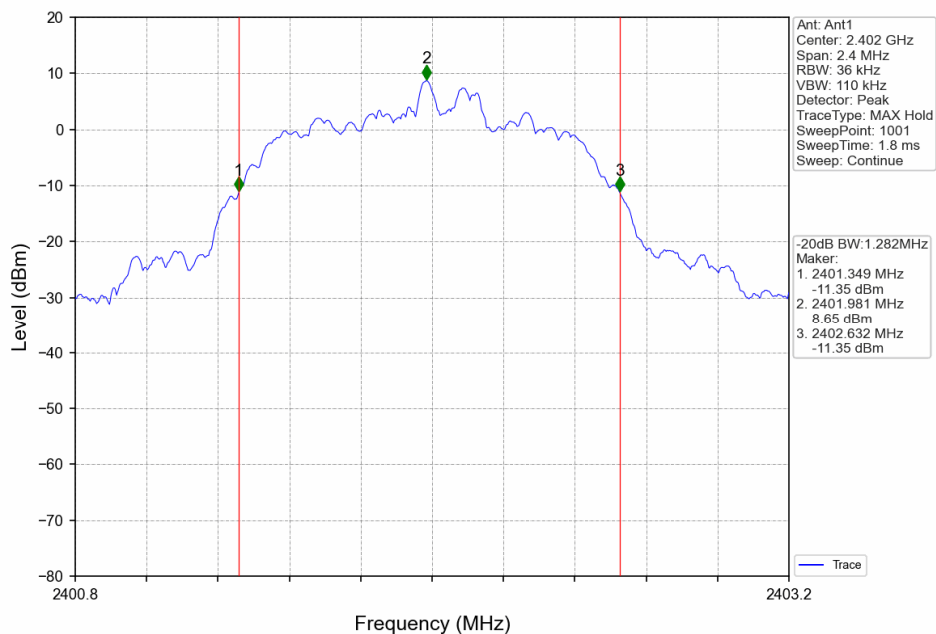
### 1.1.2 Test Graph



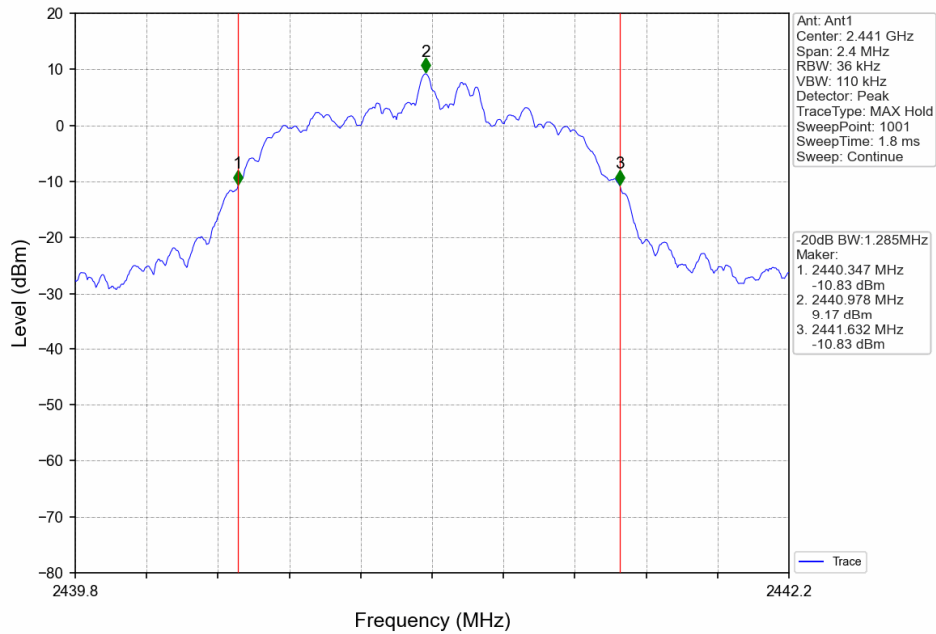
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



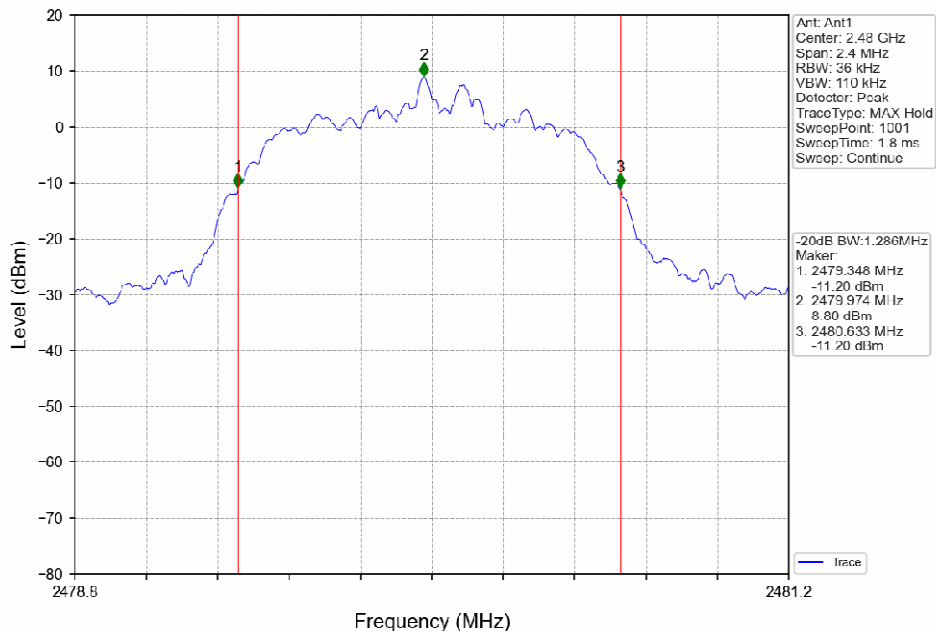
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



## 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	9.19	$\leq 30$	Pass
		2441	DH5	9.45	$\leq 30$	Pass
		2480	DH5	9.45	$\leq 30$	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.50	$\leq 20.97$	Pass
		2441	2DH5	10.53	$\leq 20.97$	Pass
		2480	2DH5	10.55	$\leq 20.97$	Pass

## 3. Carrier Frequency Separation

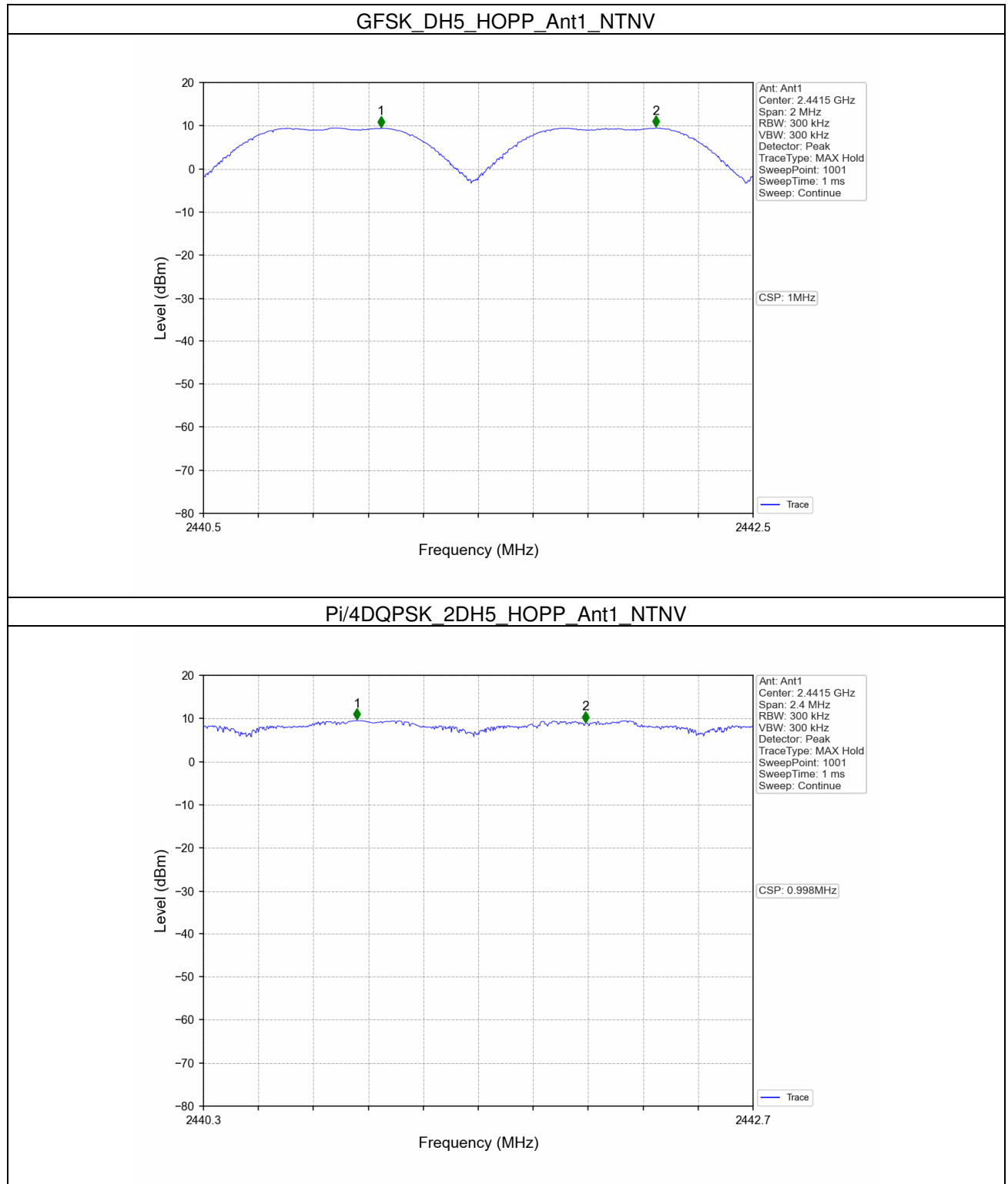
### 3.1 Ant1

#### 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	1.000	0.934	$\geq 0.934$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.998	1.286	$\geq 0.857$	Pass



### 3.1.2 Test Graph



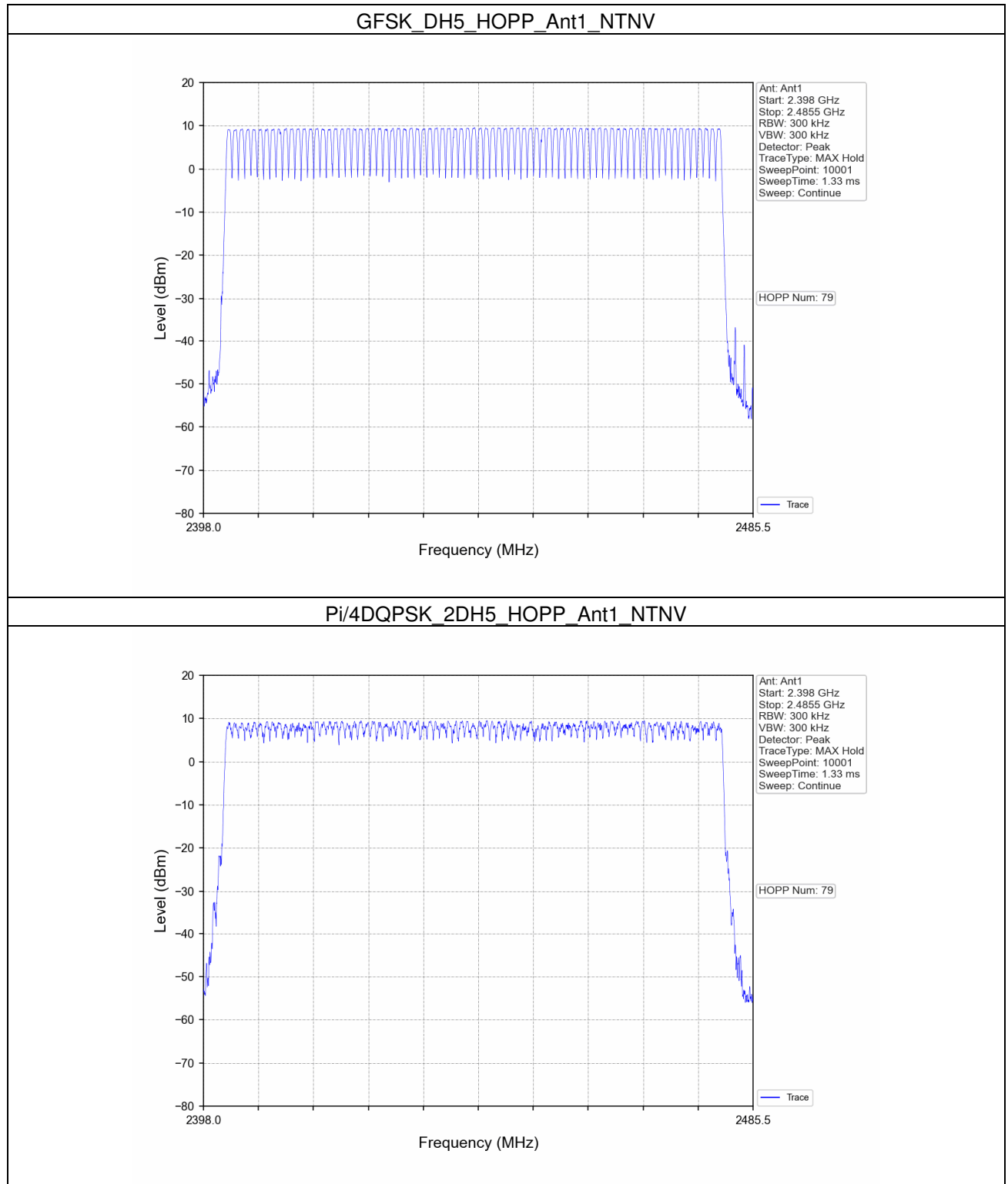
## 4. Number of Hopping Frequencies

### 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	$\geq 15$	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	$\geq 15$	Pass

### 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	0.402	31.600	319	128.238	<=400	Pass
			DH3	1.658	31.600	154	255.332	<=400	Pass
			DH5	2.906	31.600	95	276.070	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.412	31.600	319	131.428	<=400	Pass
			2DH3	1.664	31.600	156	259.584	<=400	Pass
			2DH5	2.910	31.600	102	296.820	<=400	Pass

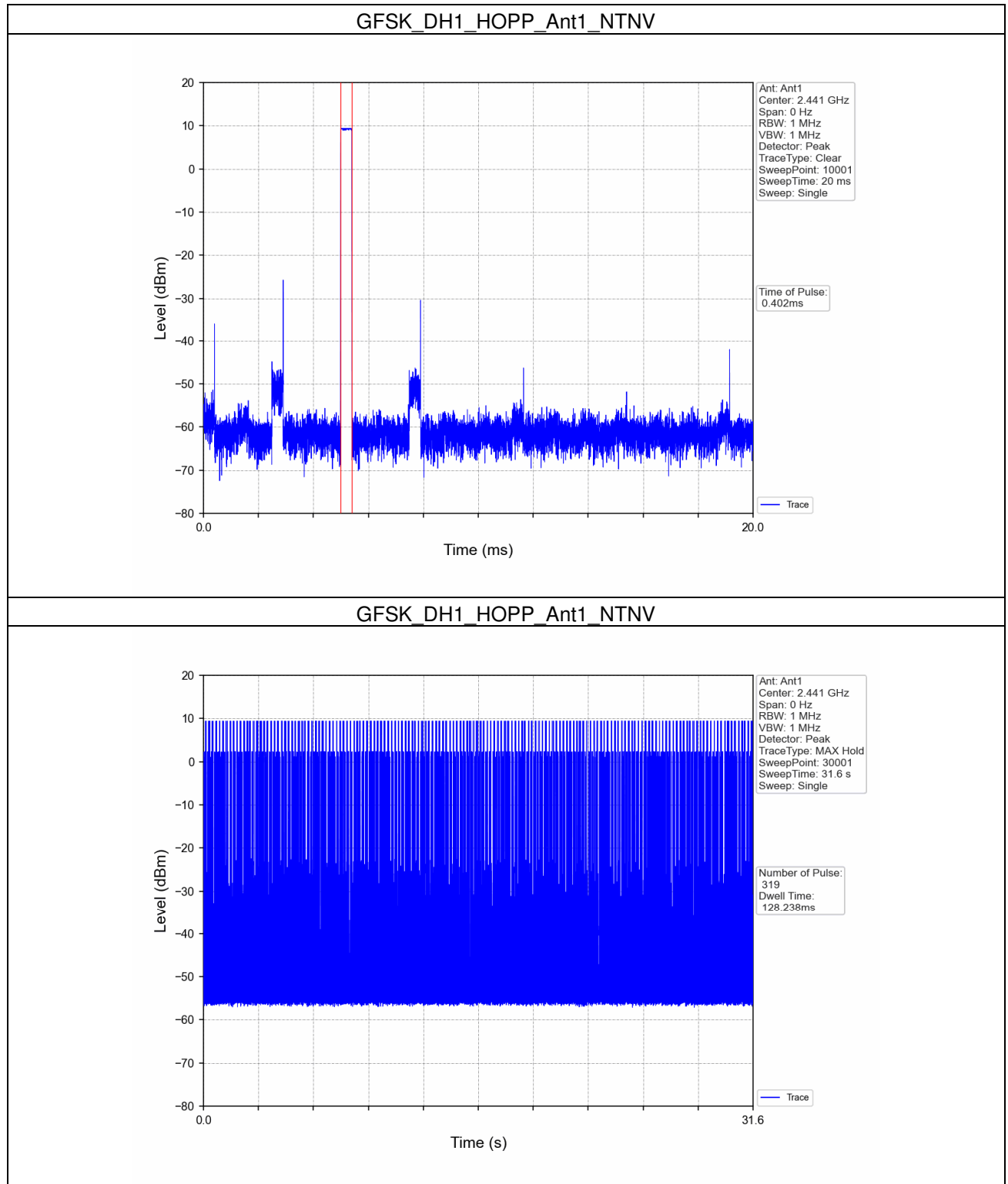


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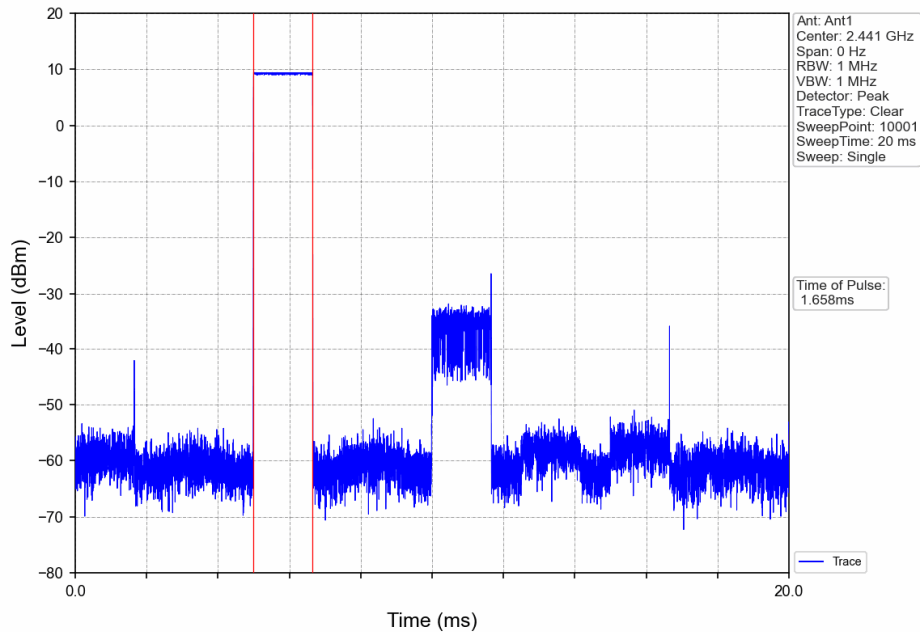
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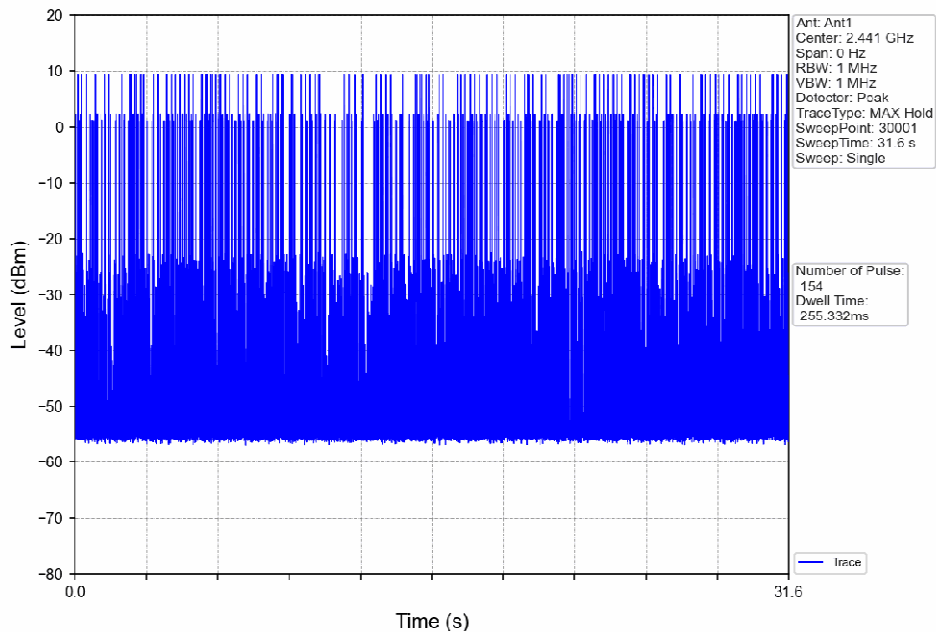
### 5.1.2 Test Graph



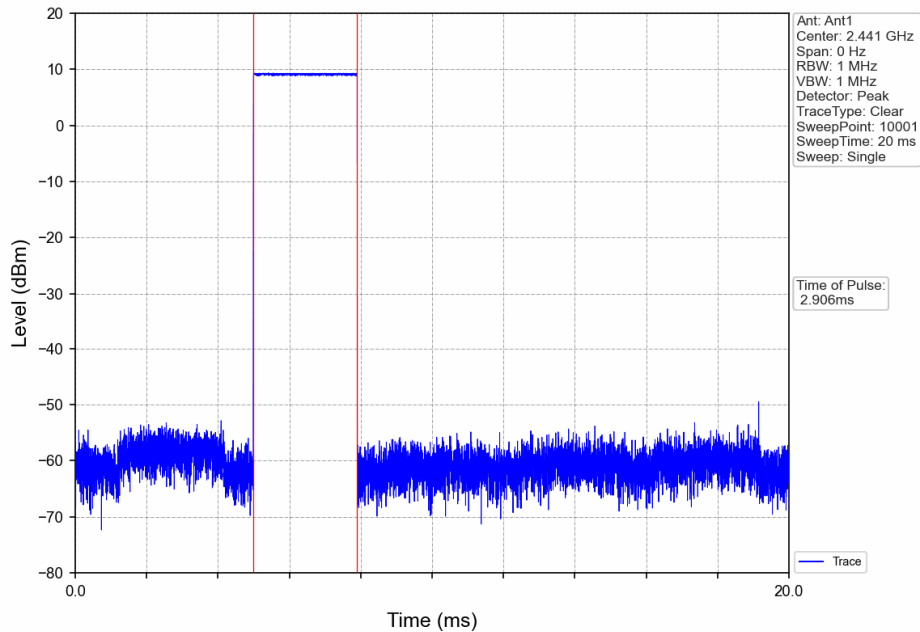
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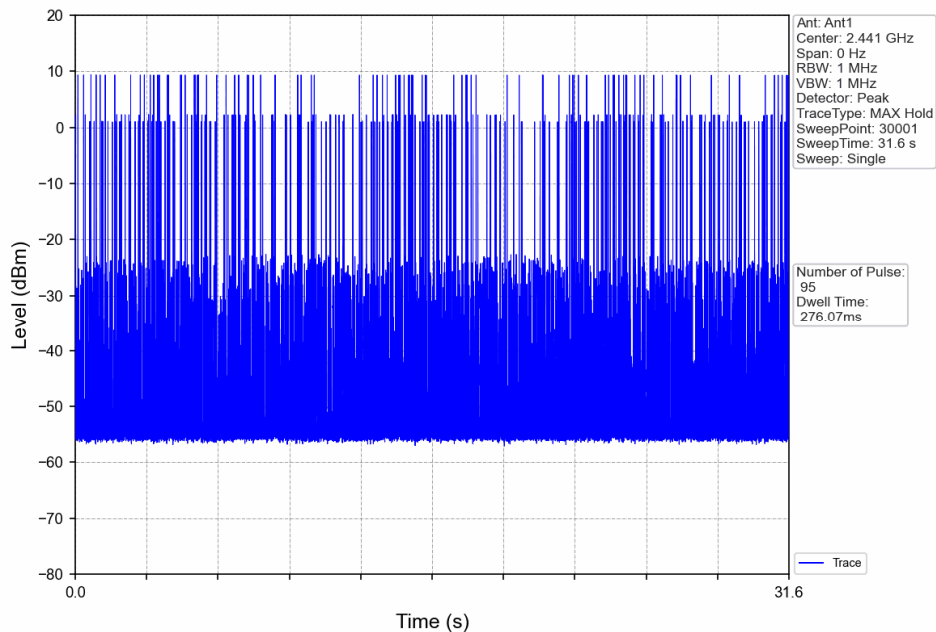
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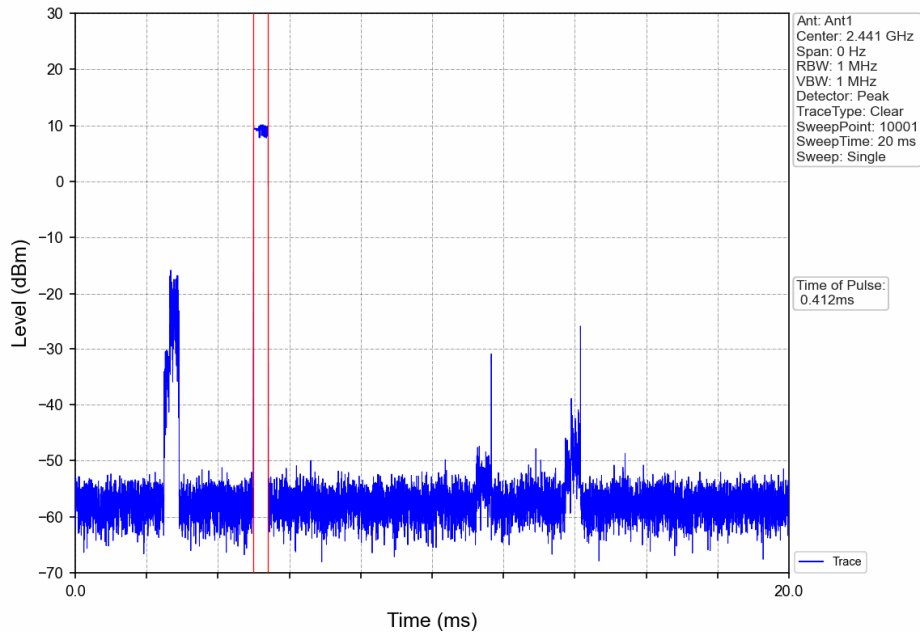
GFSK\_DH5\_HOPP\_Ant1\_NTNV



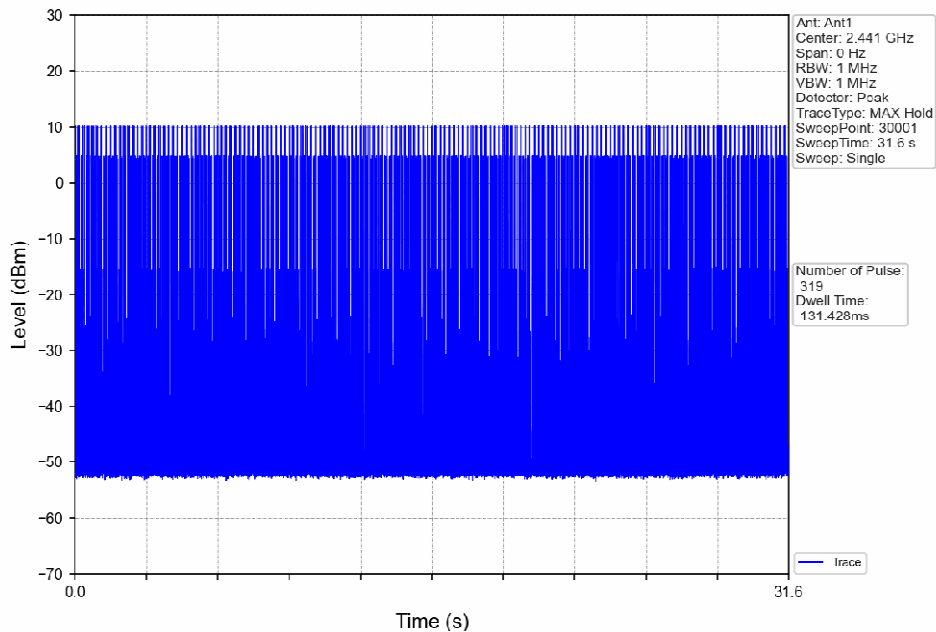
GFSK\_DH5\_HOPP\_Ant1\_NTNV



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



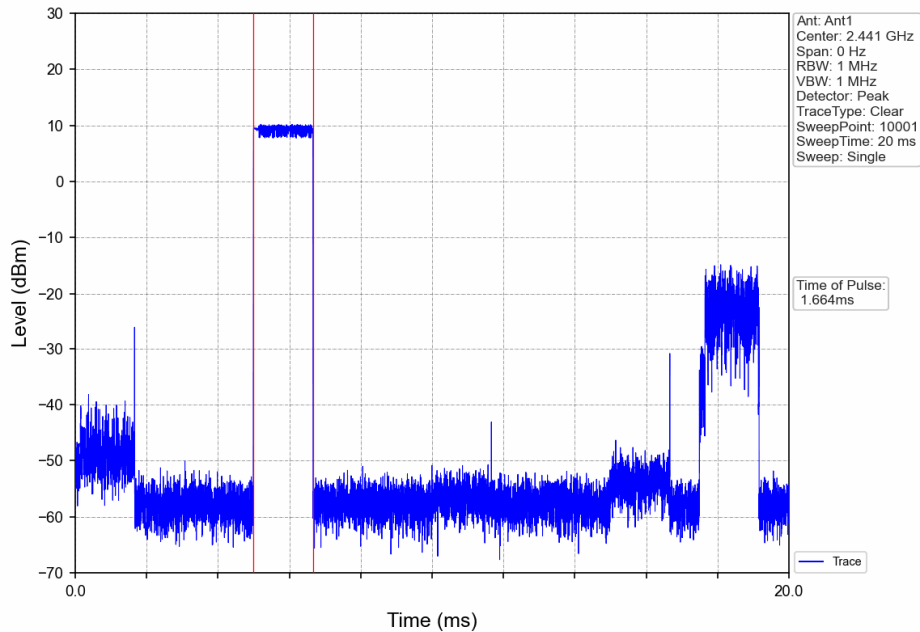
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



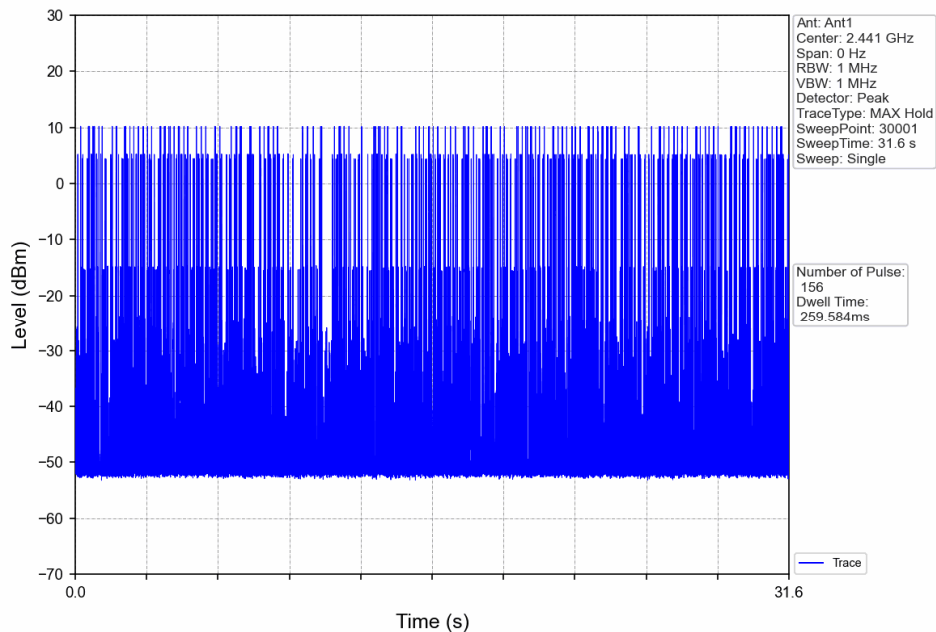
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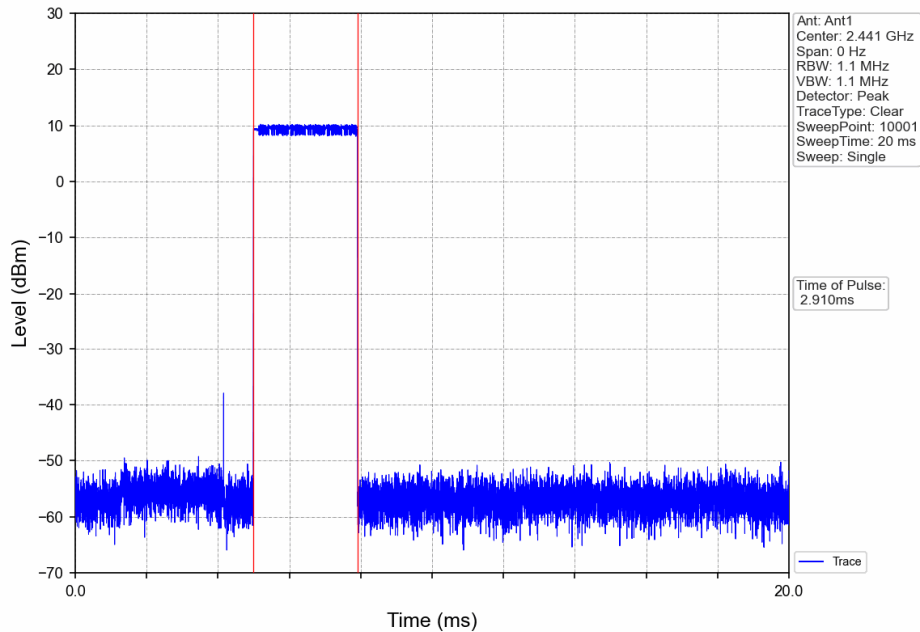
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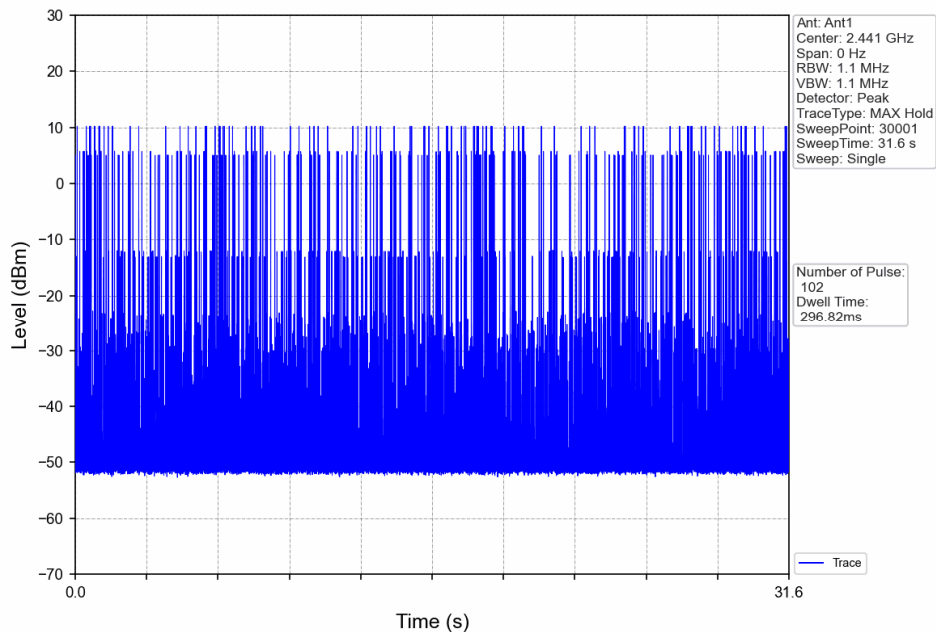
Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



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



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



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

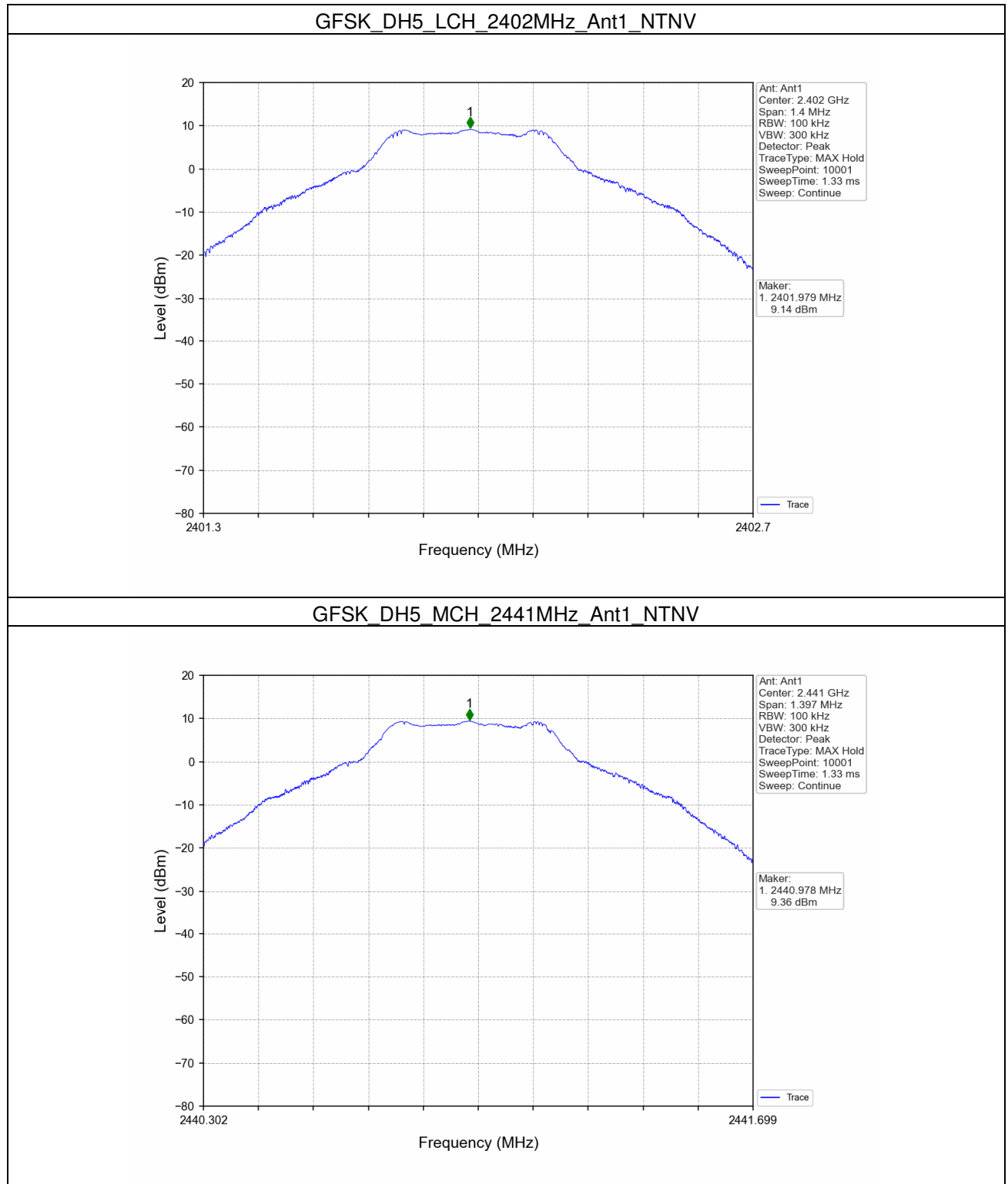
### 6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	9.14
		2441	DH5	1	9.36
		2480	DH5	1	9.43
Pi/4DQPSK	SISO	2402	2DH5	1	9.06
		2441	2DH5	1	9.38
		2480	2DH5	1	9.26

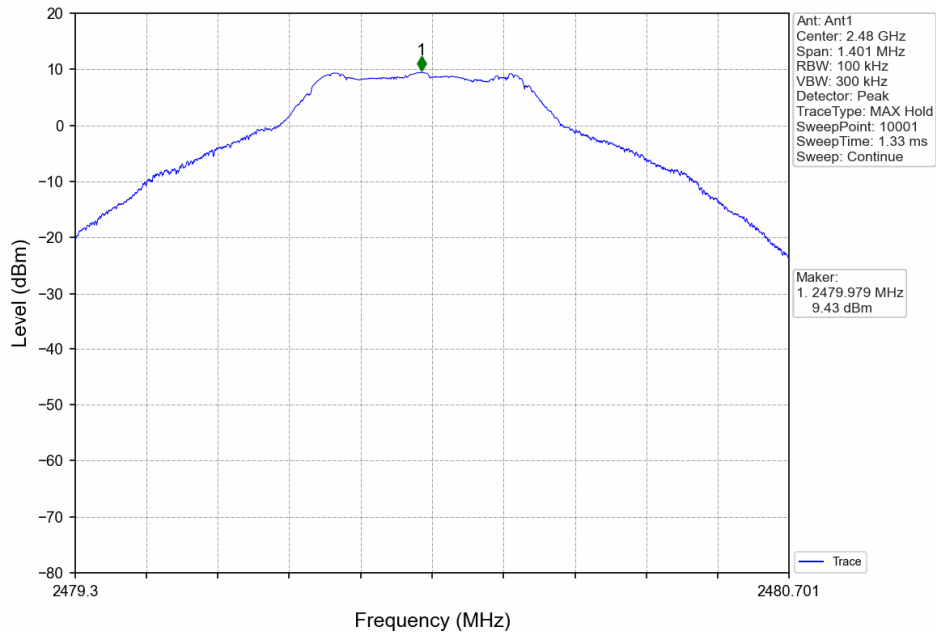


## 6.1.2 Test Graph

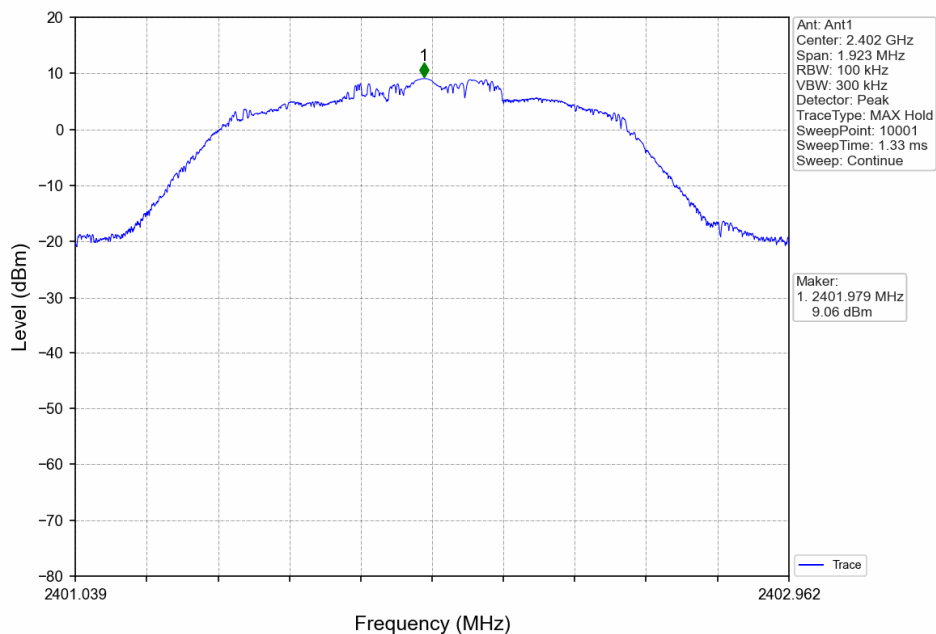




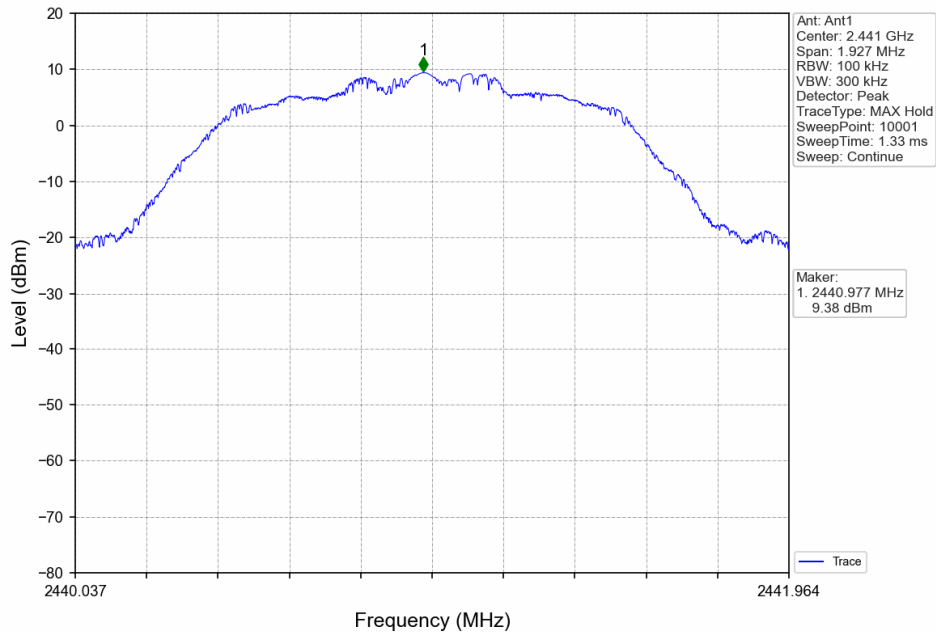
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



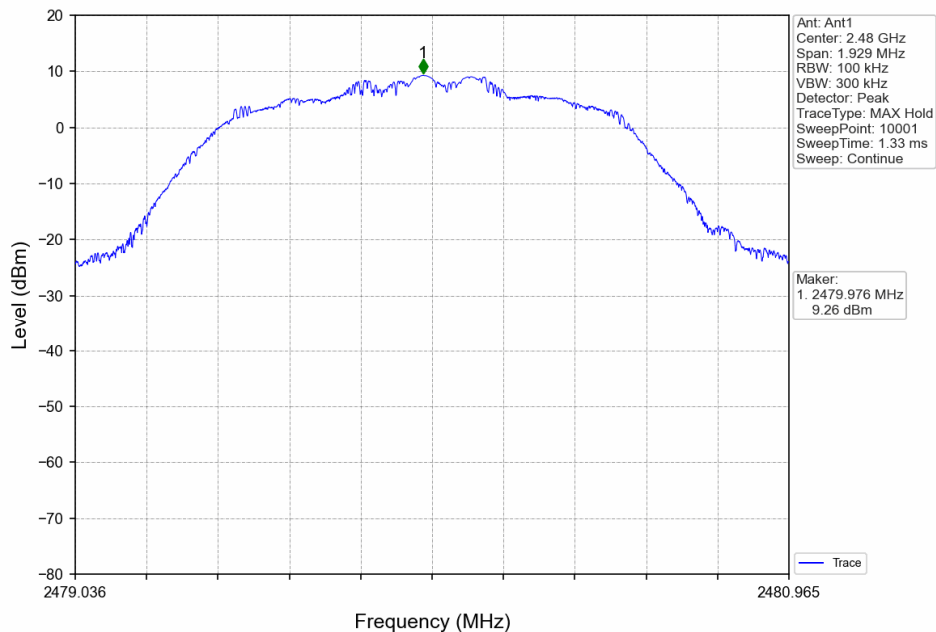
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



## 6.2 CSE

## 6.2.1 Test Result

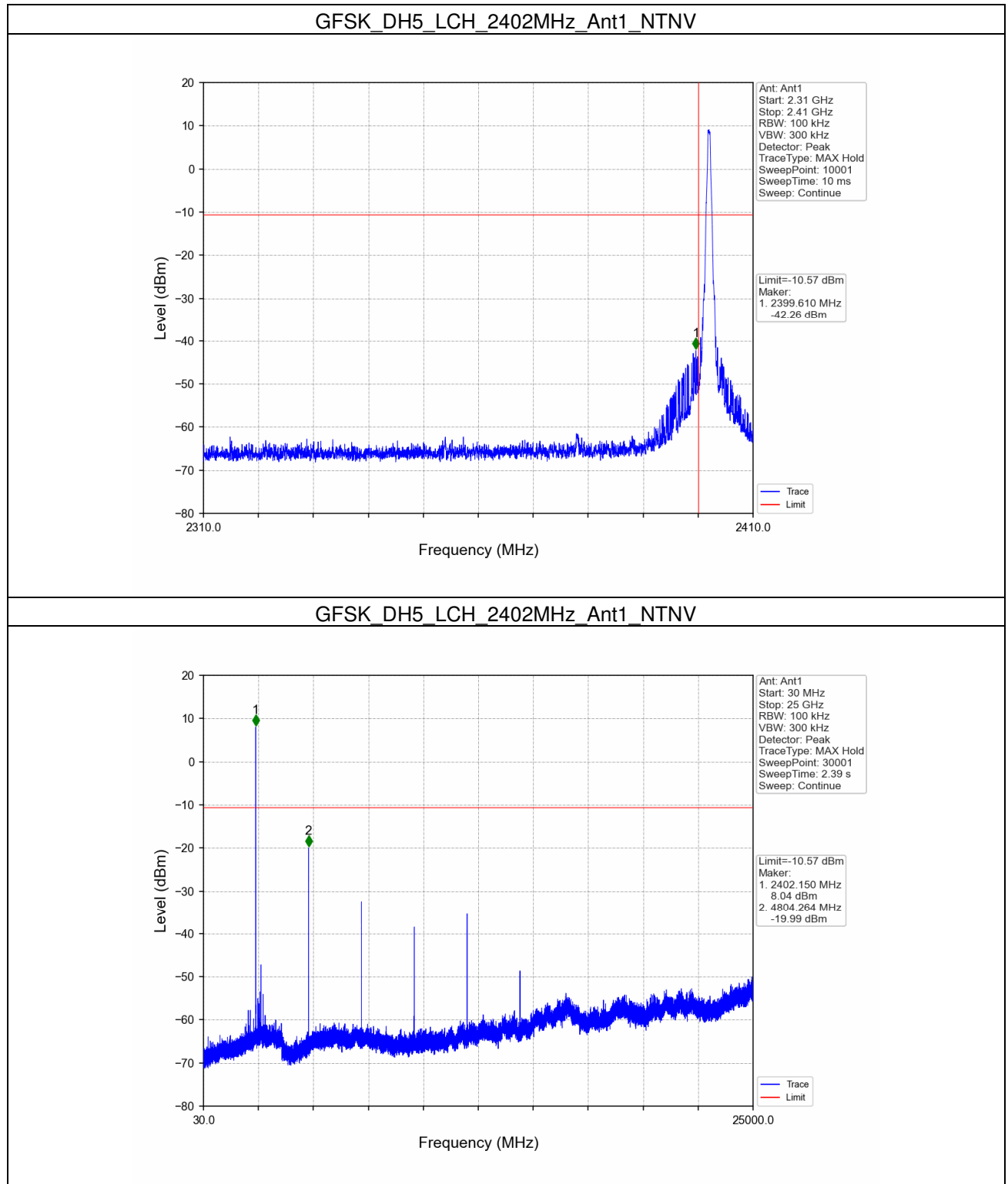
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	9.43	-10.57	Pass
		2441	DH5	1	9.43	-10.57	Pass
		2480	DH5	1	9.43	-10.57	Pass
		HOPP	DH5	1	9.43	-10.57	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	9.38	-10.62	Pass
		2441	2DH5	1	9.38	-10.62	Pass
		2480	2DH5	1	9.38	-10.62	Pass
		HOPP	2DH5	1	9.38	-10.62	Pass



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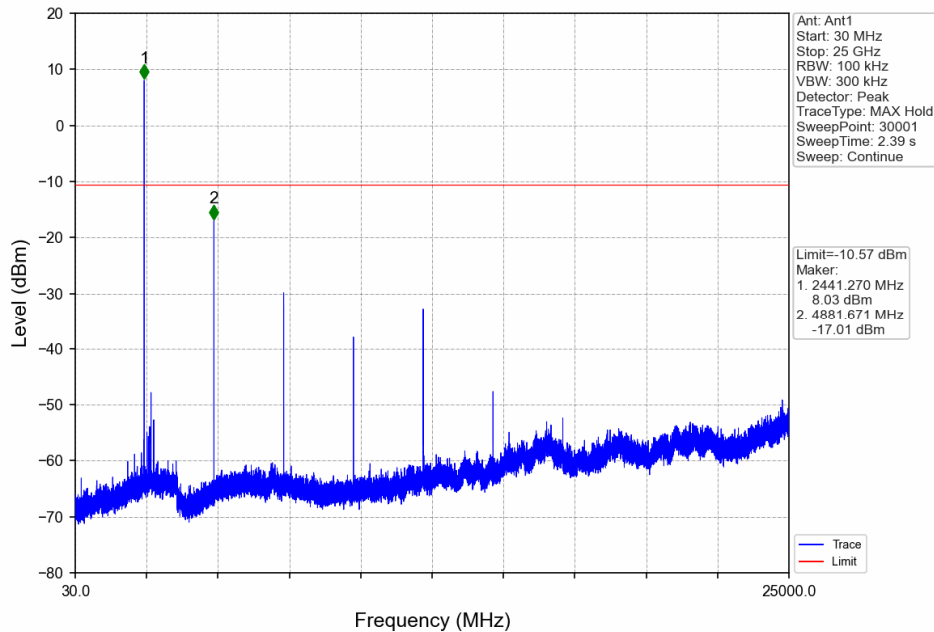
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### 6.2.2 Test Graph

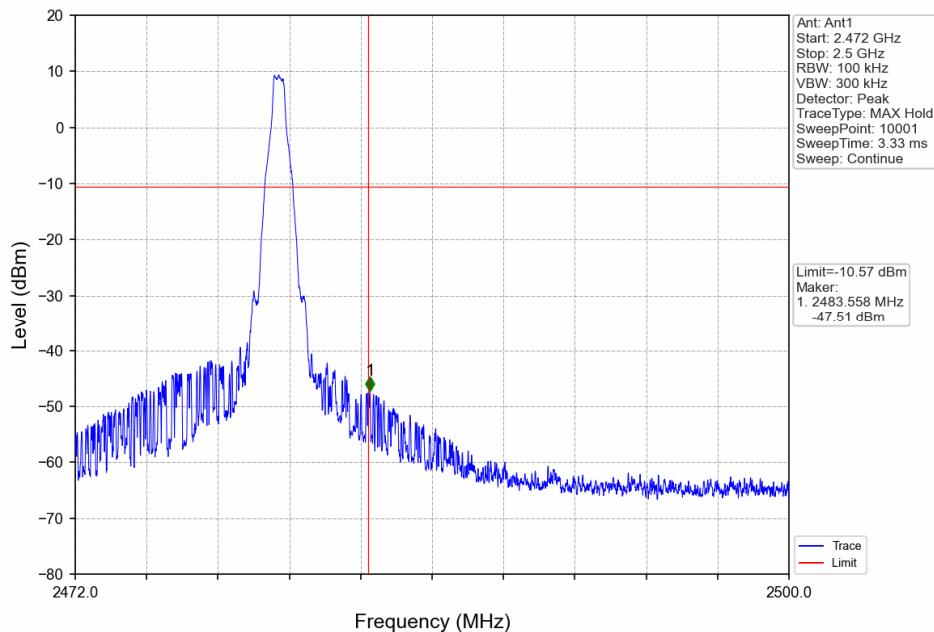




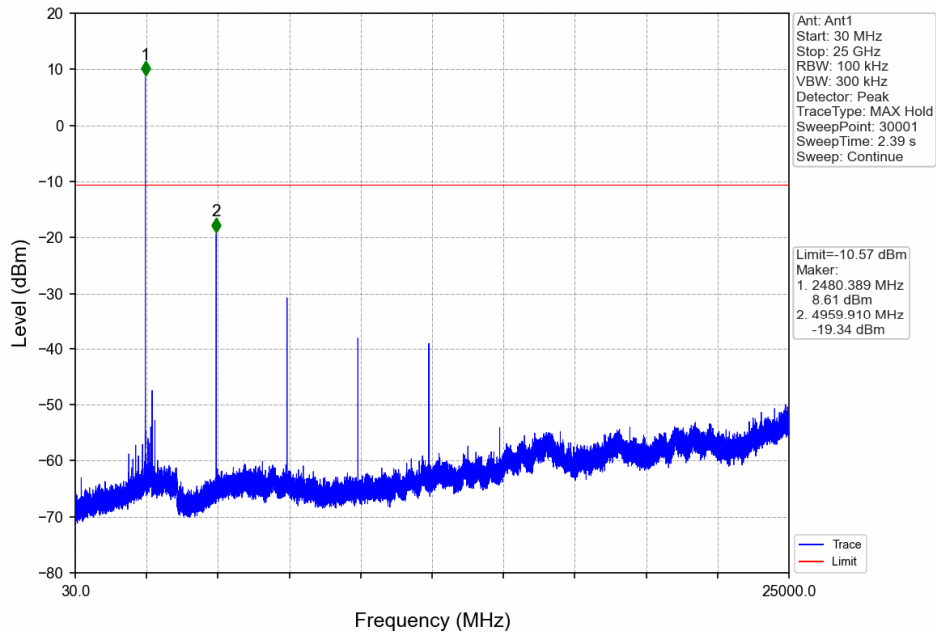
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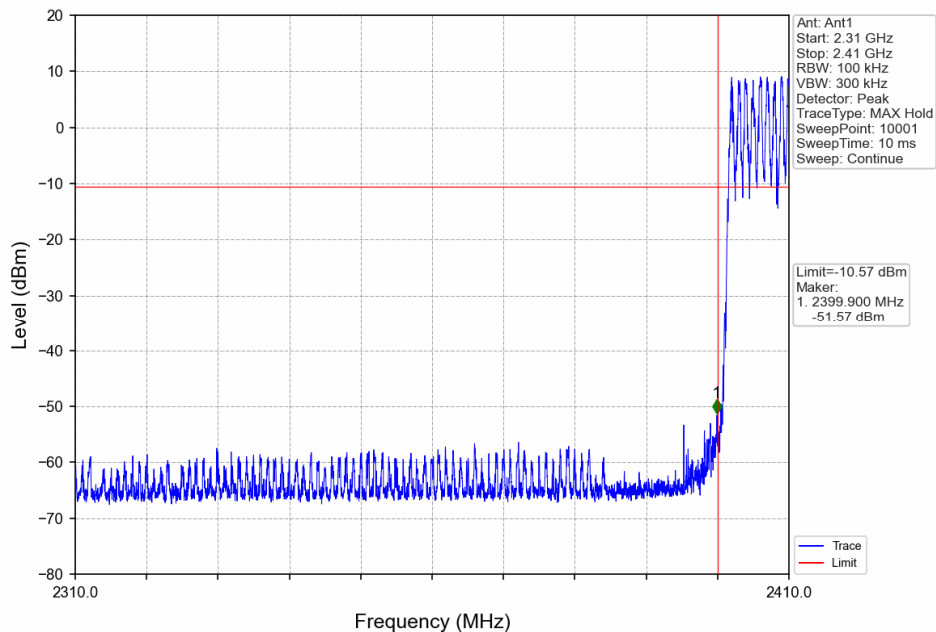
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



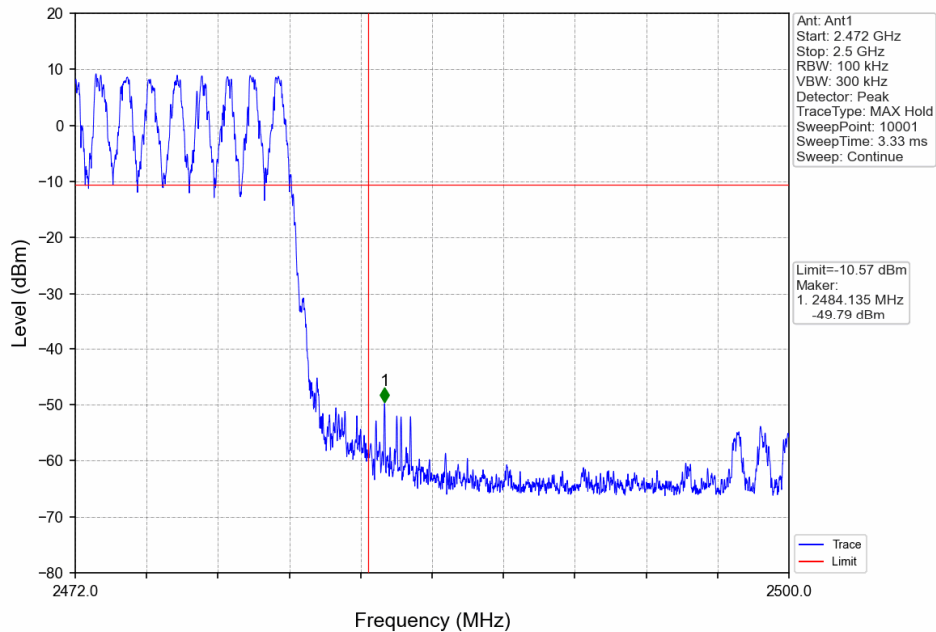
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



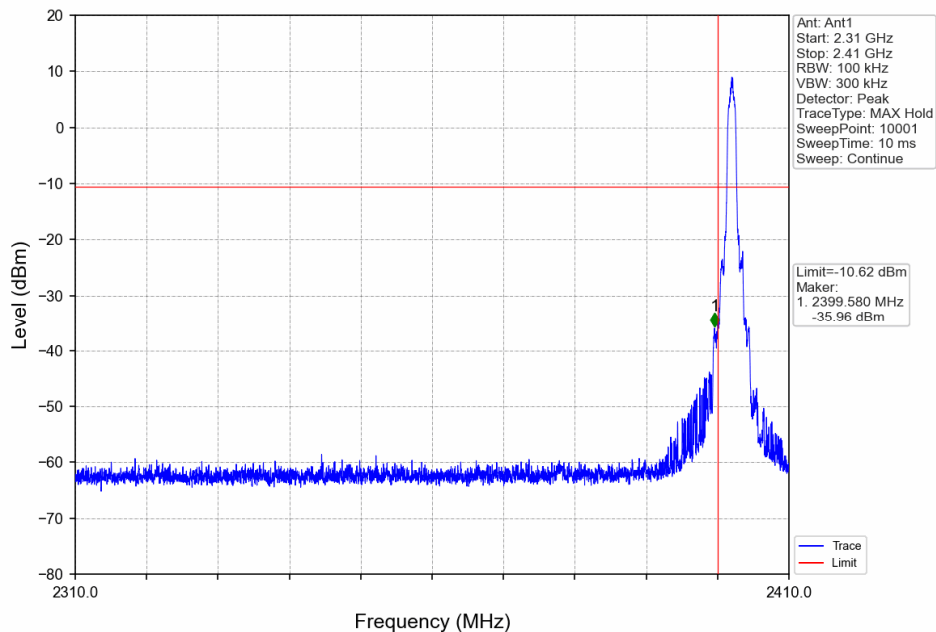
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



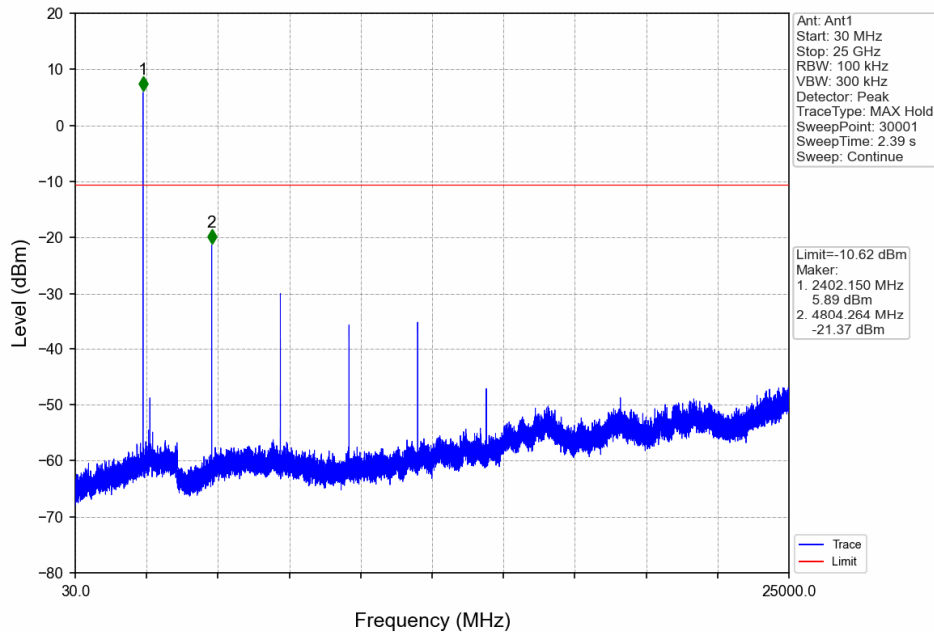
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



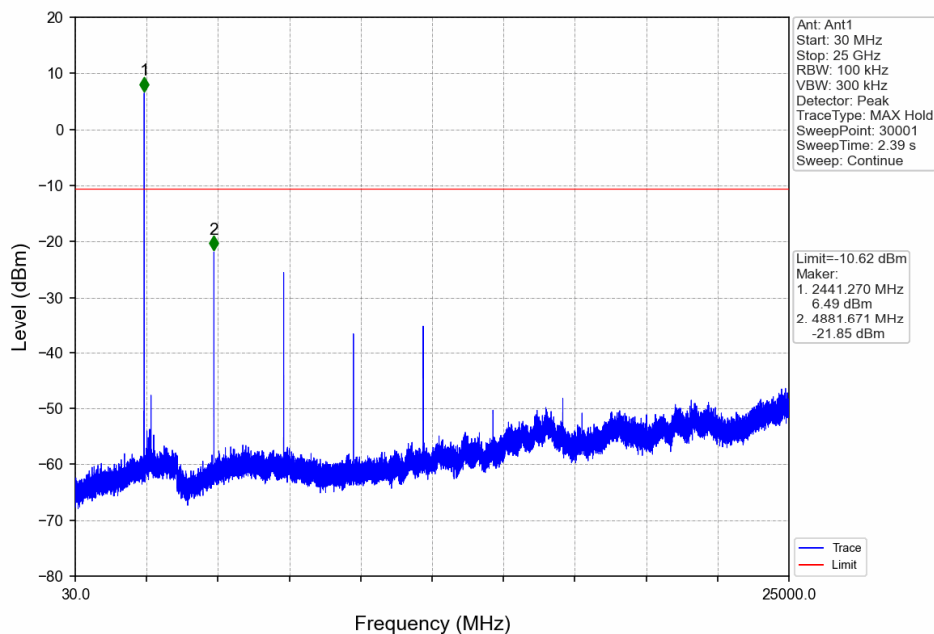
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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

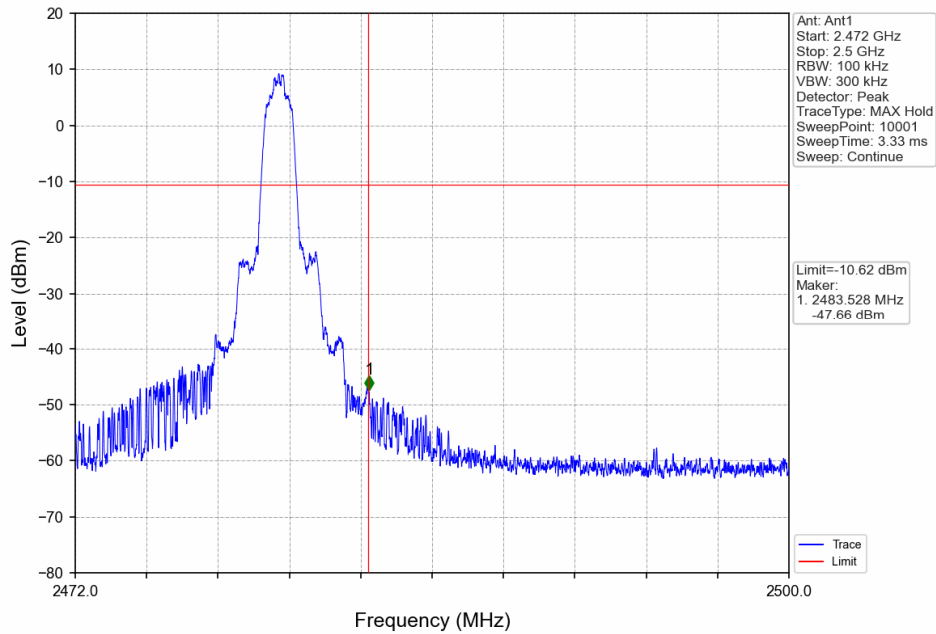


Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV

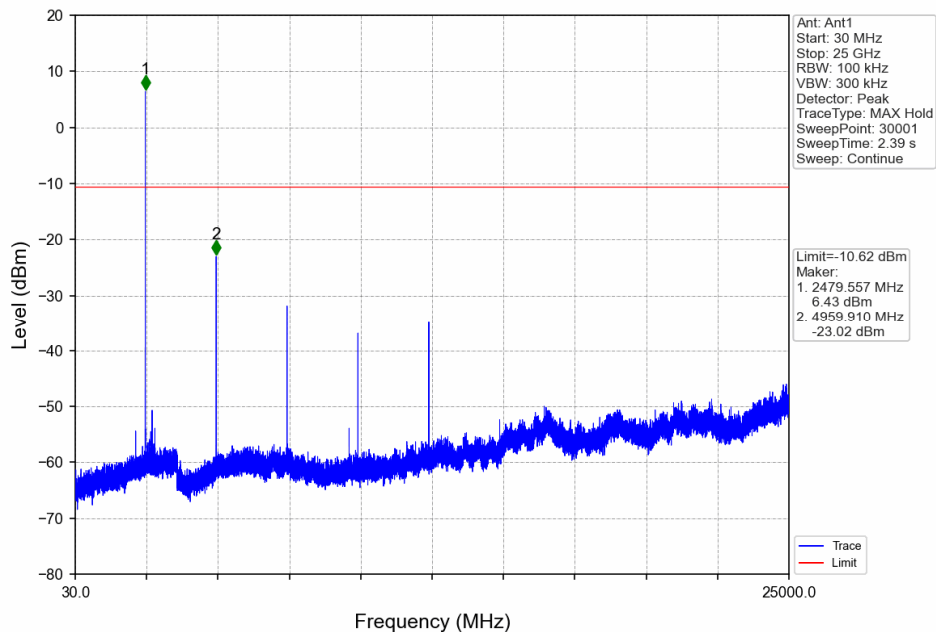




Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



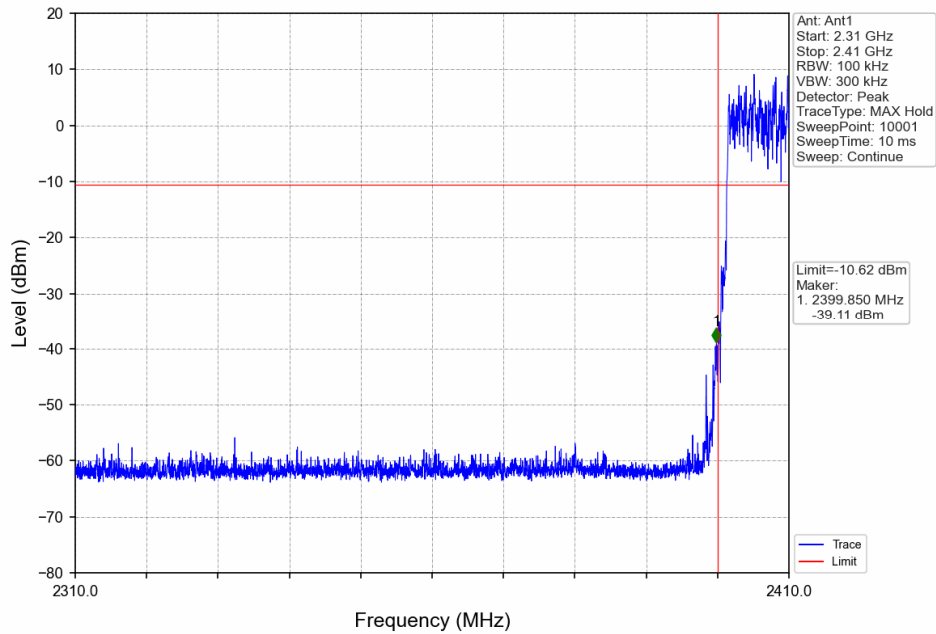
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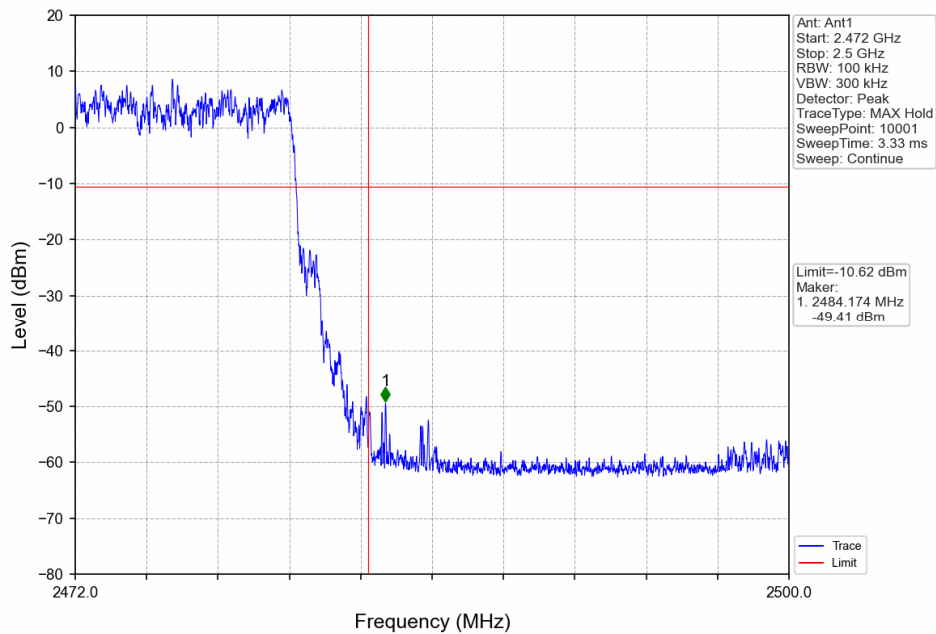
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Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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



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For Right earbuds:

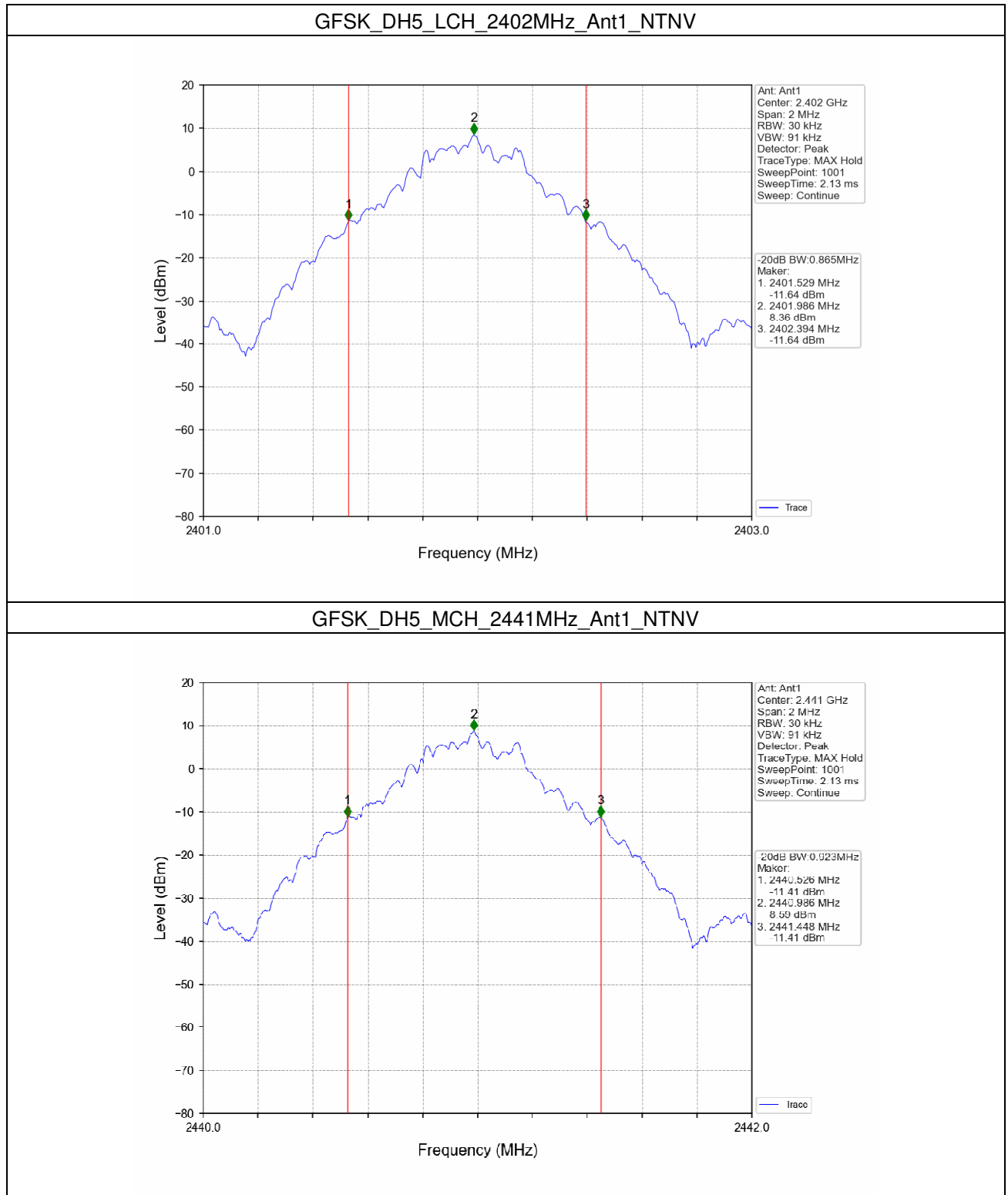
## 1. Bandwidth

## 1.1 20dB BW

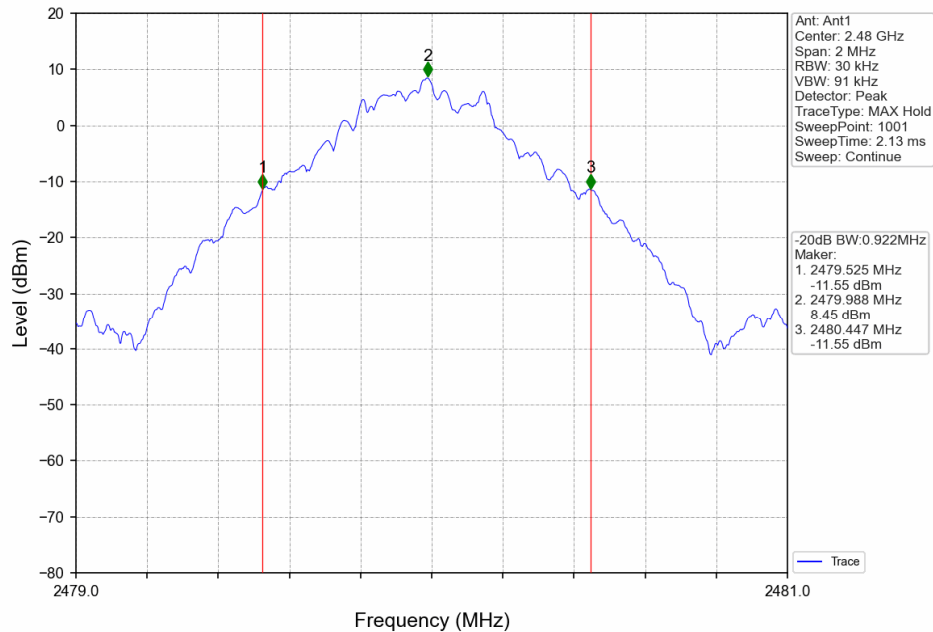
## 1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.865	Pass
		2441	DH5	1	0.923	Pass
		2480	DH5	1	0.922	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.272	Pass
		2441	2DH5	1	1.276	Pass
		2480	2DH5	1	1.274	Pass

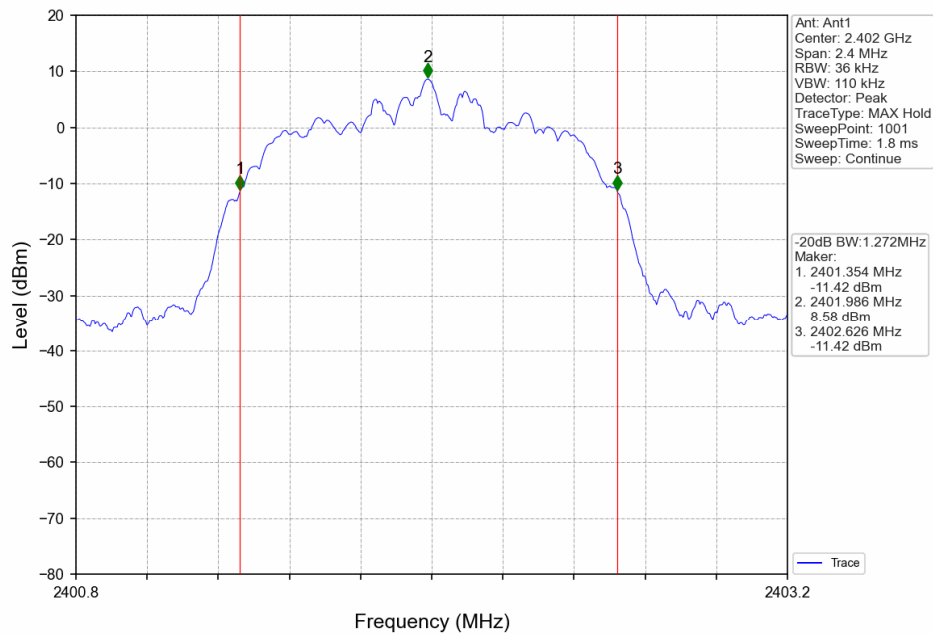
### 1.1.2 Test Graph



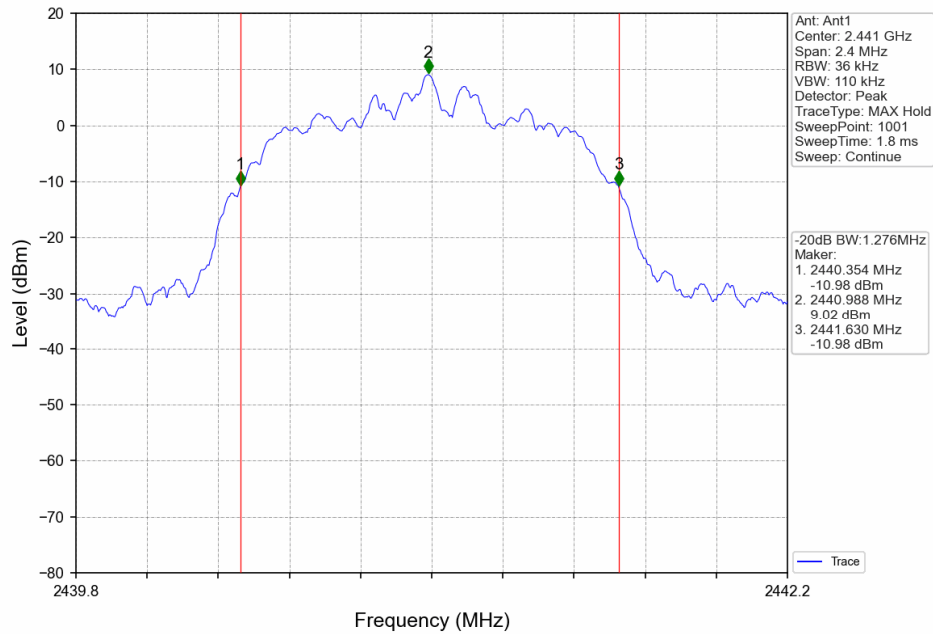
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



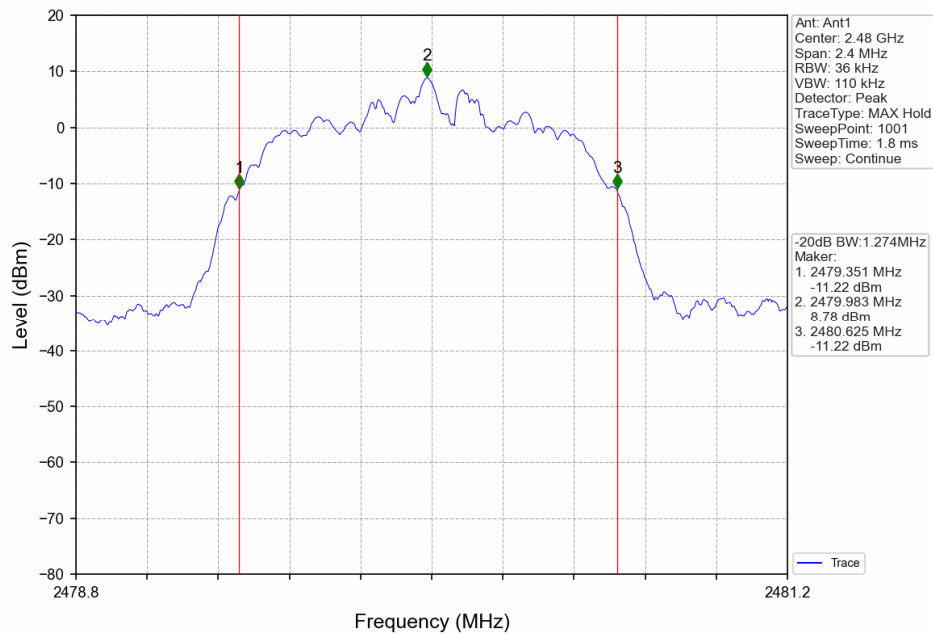
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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





## 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	8.80	<=30	Pass
		2441	DH5	9.02	<=30	Pass
		2480	DH5	9.02	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	10.43	<=20.97	Pass
		2441	2DH5	10.57	<=20.97	Pass
		2480	2DH5	10.51	<=20.97	Pass

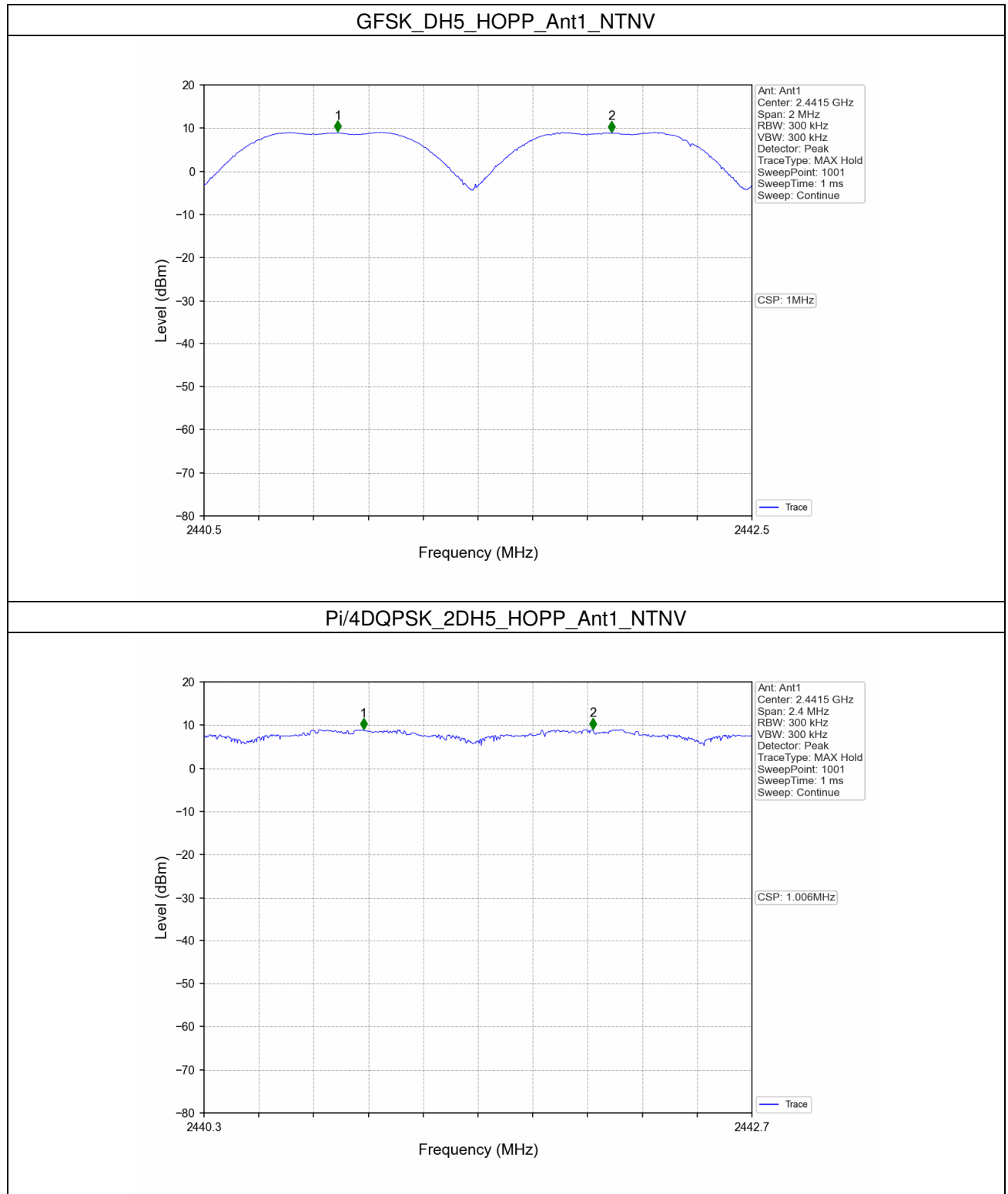
## 3. Carrier Frequency Separation

### 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	1.000	0.923	>=0.923	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.006	1.276	>=0.851	Pass

### 3.1.2 Test Graph



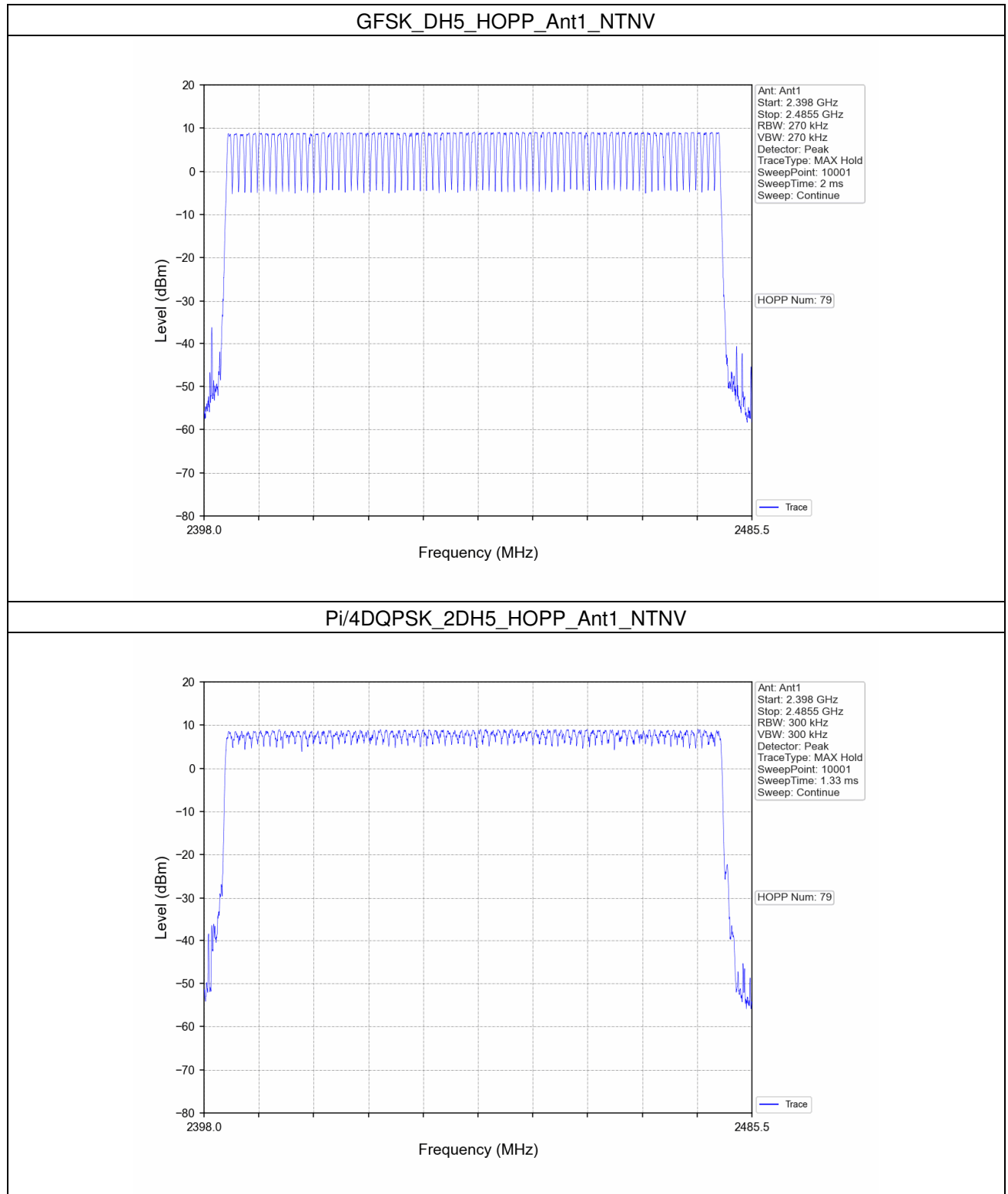
## 4. Number of Hopping Frequencies

### 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	$\geq 15$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	$\geq 15$	Pass

## 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	0.402	31.600	320	128.640	<=400	Pass
			DH3	1.658	31.600	170	281.860	<=400	Pass
			DH5	2.910	31.600	109	317.190	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.412	31.600	320	131.840	<=400	Pass
			2DH3	1.666	31.600	171	284.886	<=400	Pass
			2DH5	2.912	31.600	103	299.936	<=400	Pass

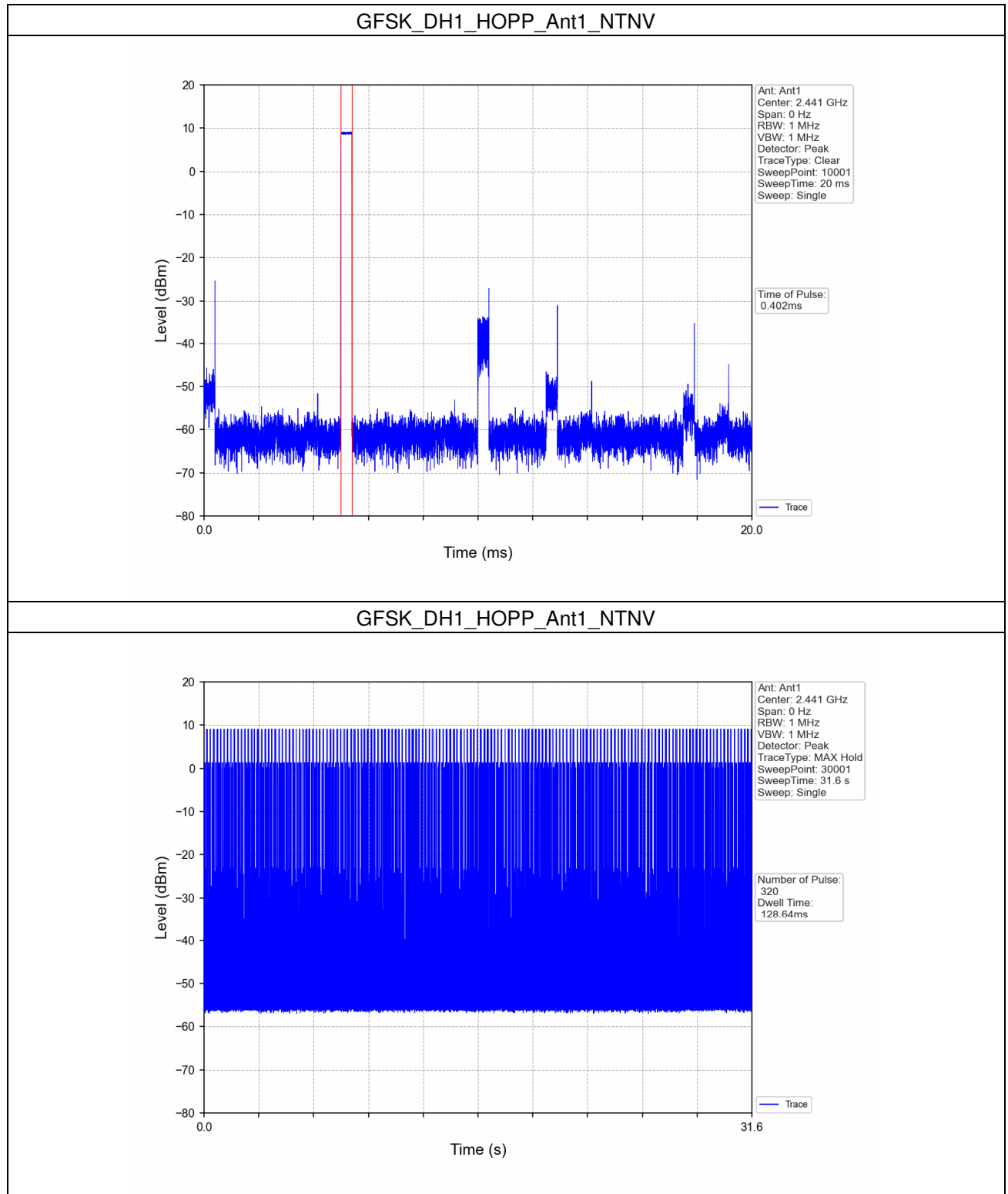


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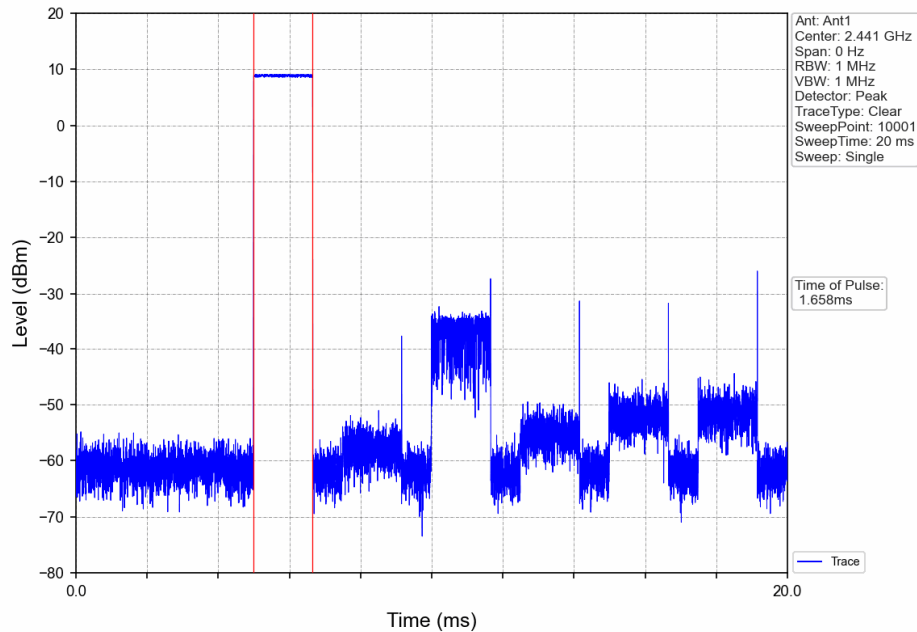
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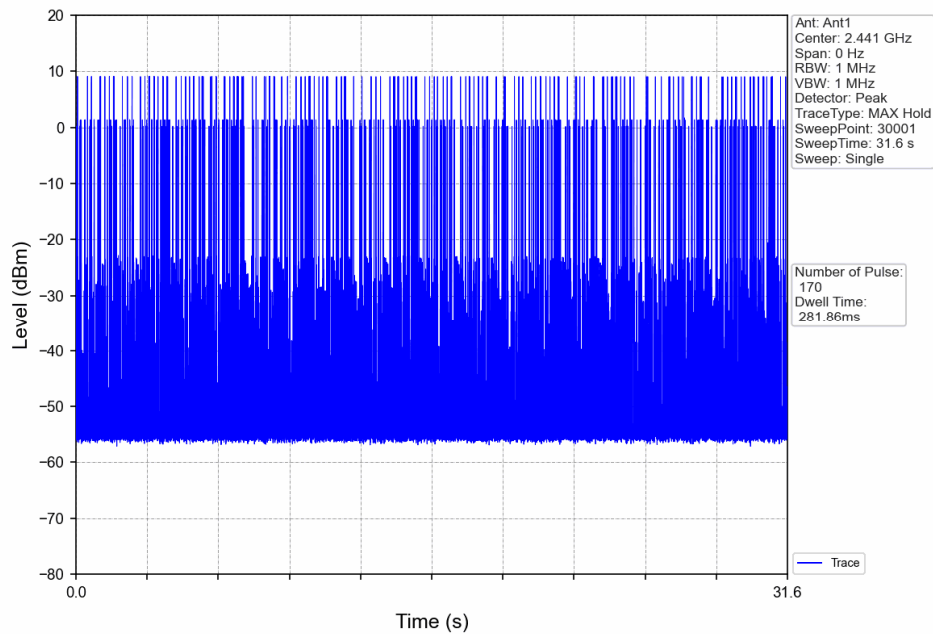
### 5.1.2 Test Graph



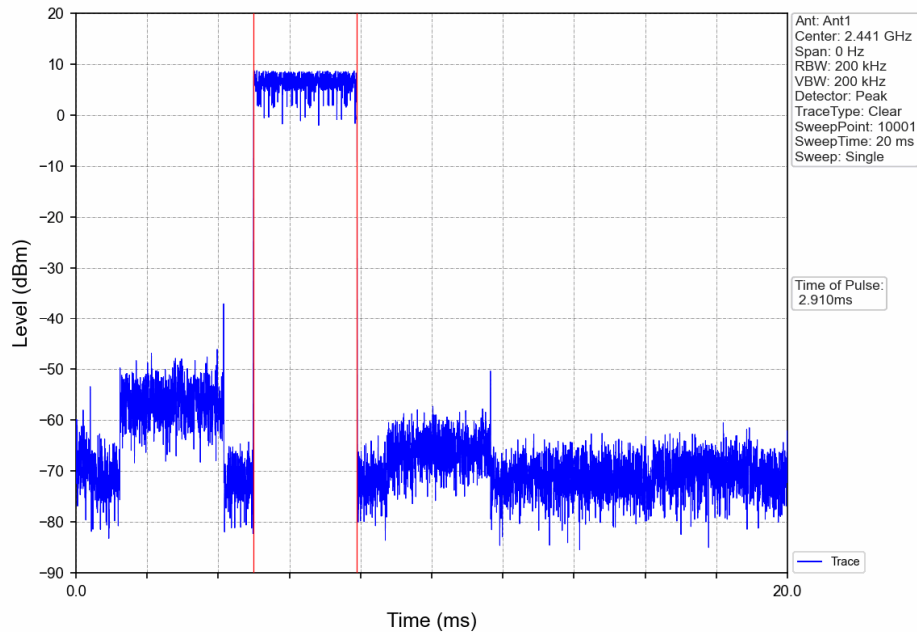
GFSK\_DH3\_HOPP\_Ant1\_NTNV



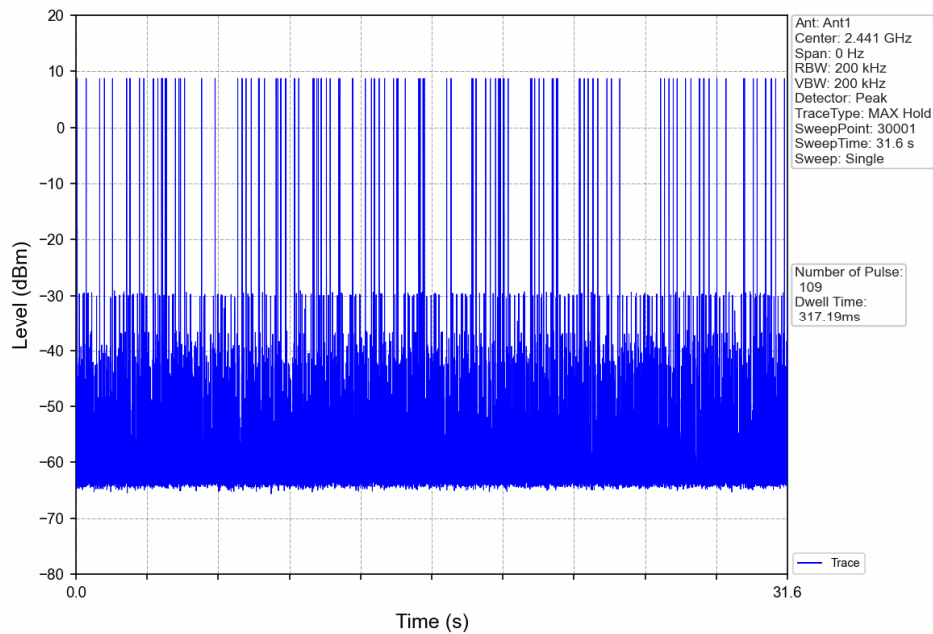
GFSK\_DH3\_HOPP\_Ant1\_NTNV



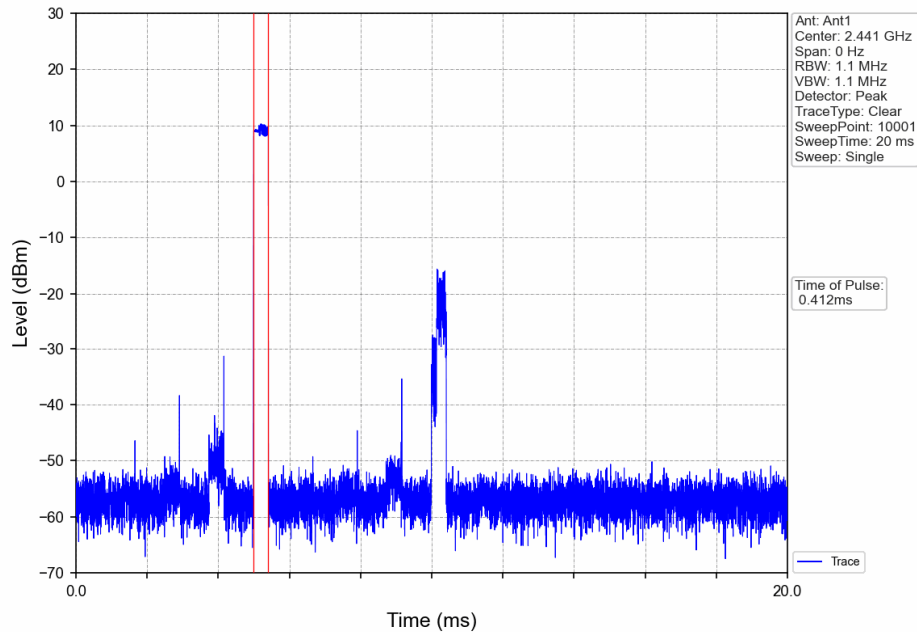
GFSK\_DH5\_HOPP\_Ant1\_NTNV



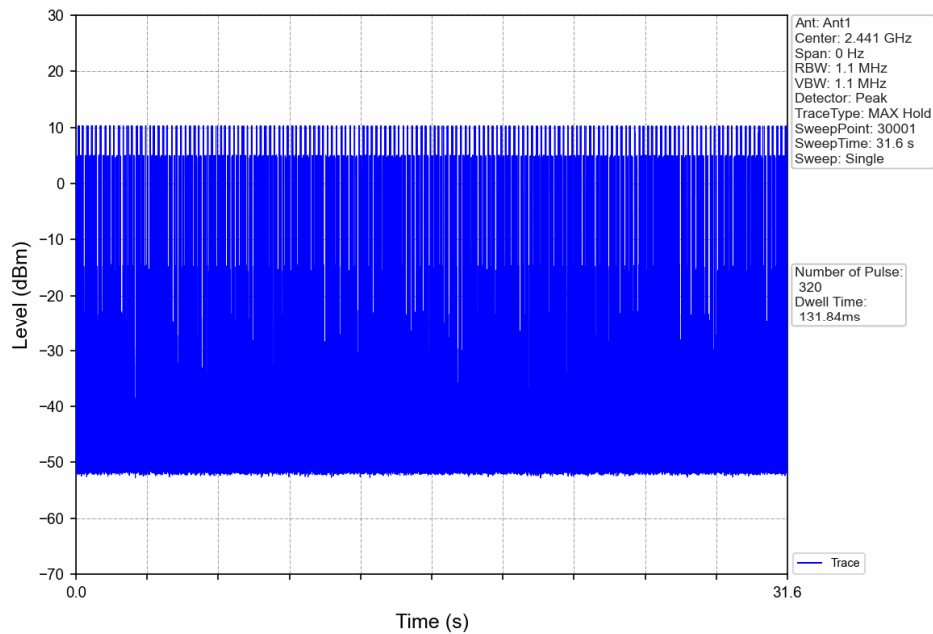
GFSK\_DH5\_HOPP\_Ant1\_NTNV



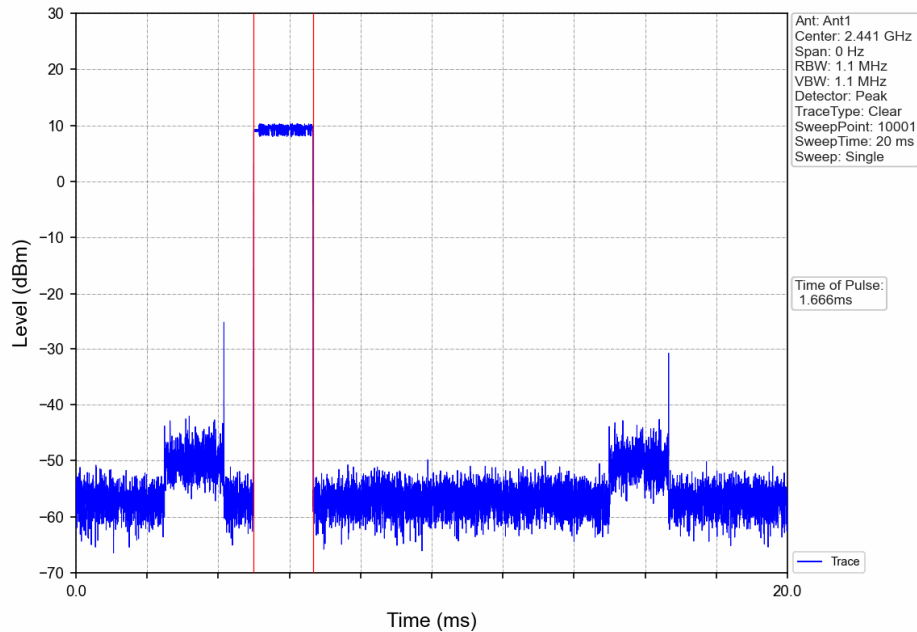
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



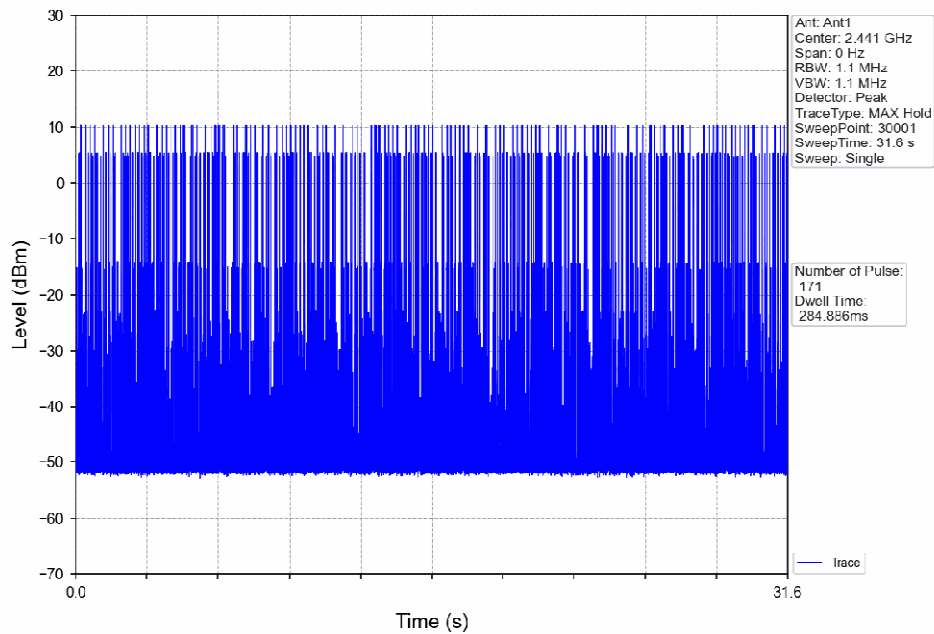
Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



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

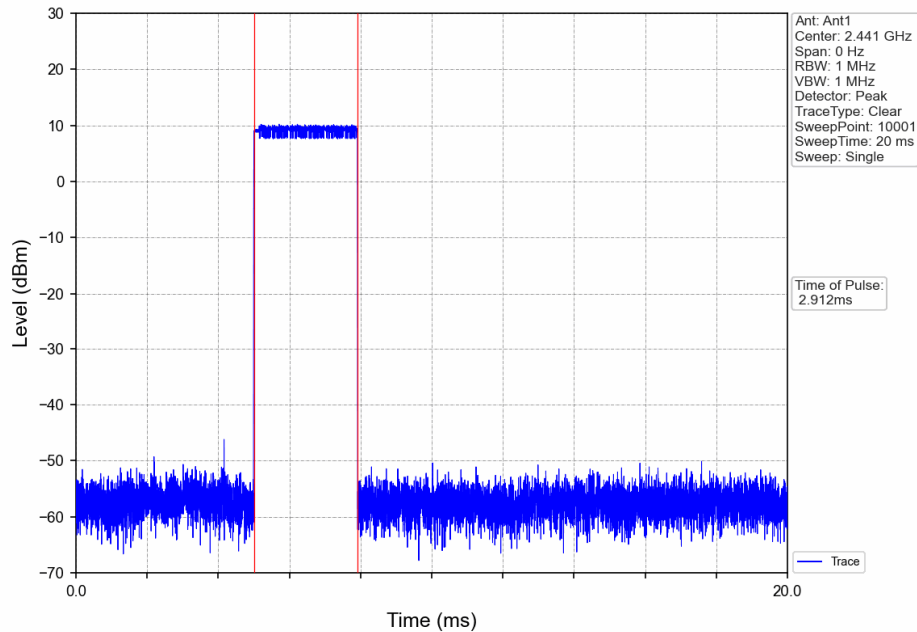


Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV

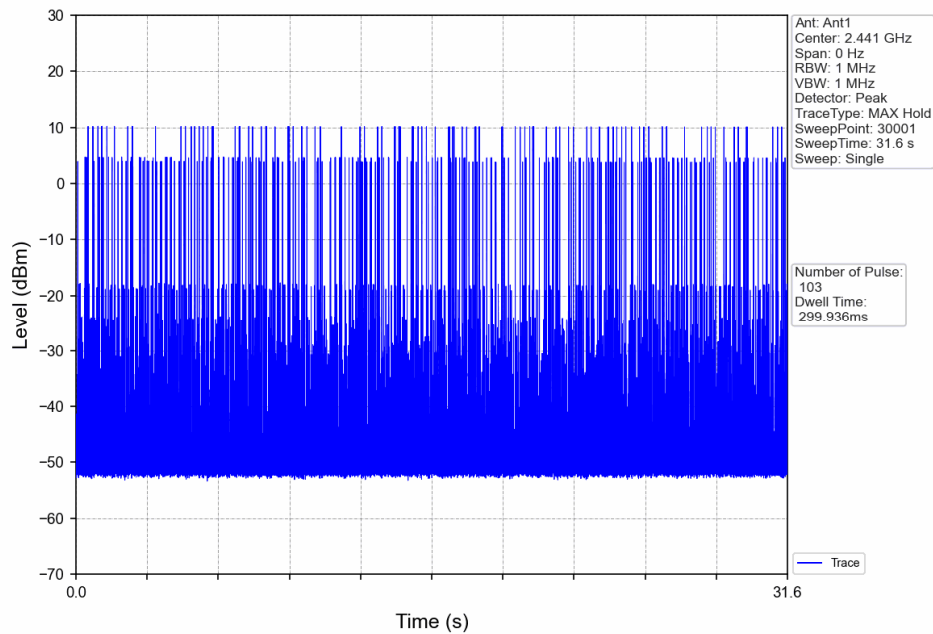




Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



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



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

### 6.1 Ref

#### 6.1.1 Test Result

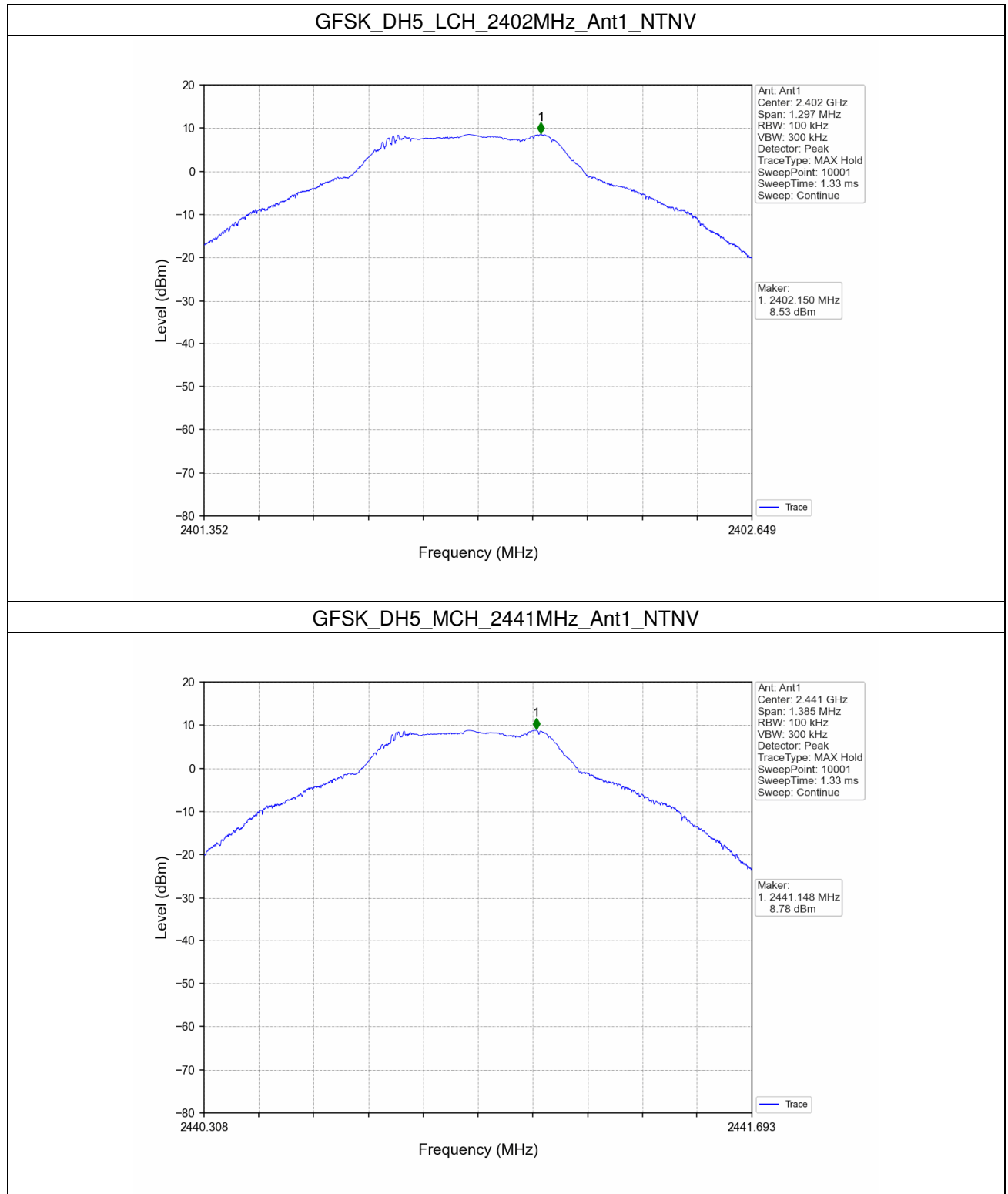
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	8.53
		2441	DH5	1	8.78
		2480	DH5	1	8.70
Pi/4DQPSK	SISO	2402	2DH5	1	8.49
		2441	2DH5	1	8.90
		2480	2DH5	1	8.75



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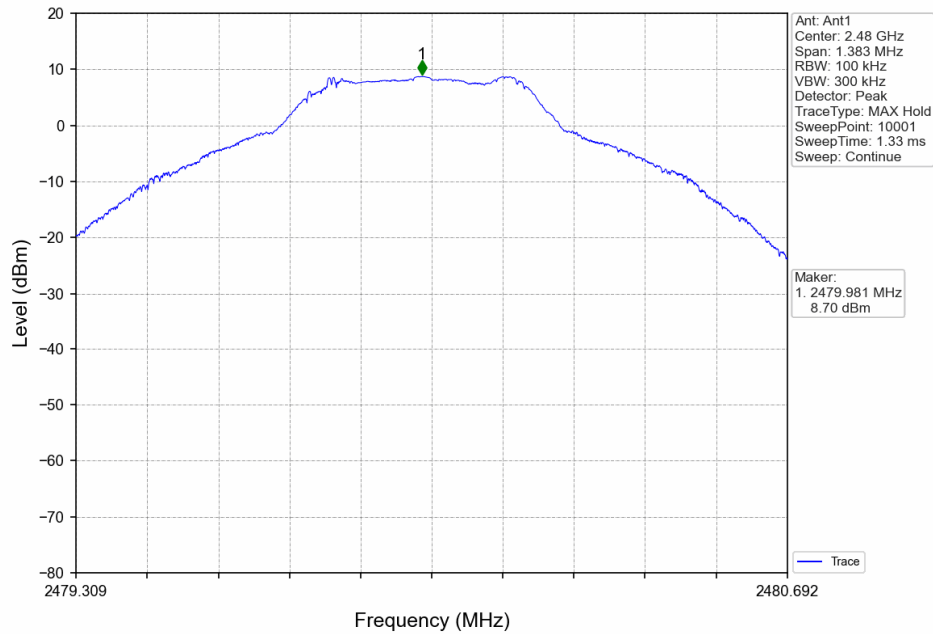
### 6.1.2 Test Graph



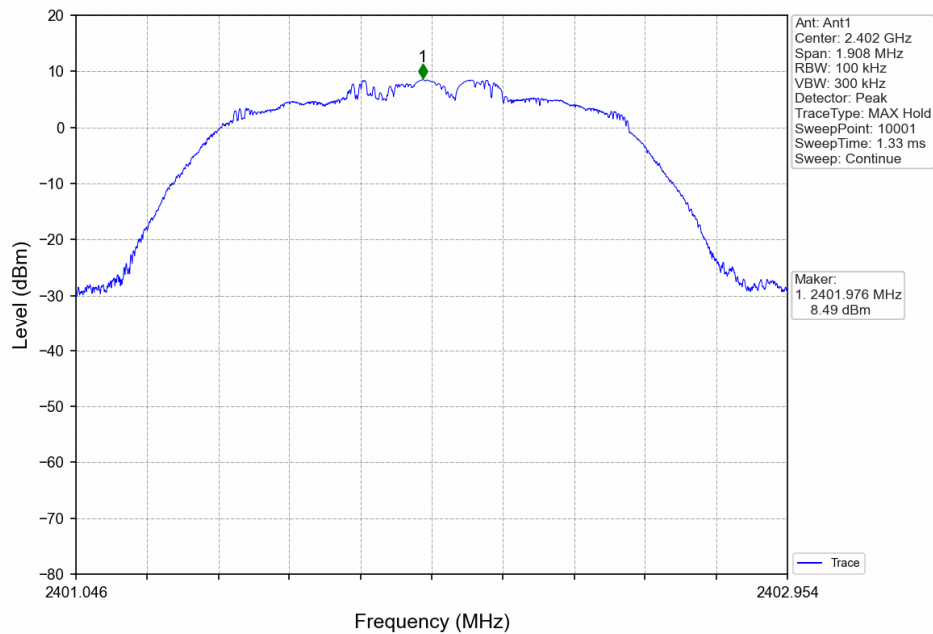
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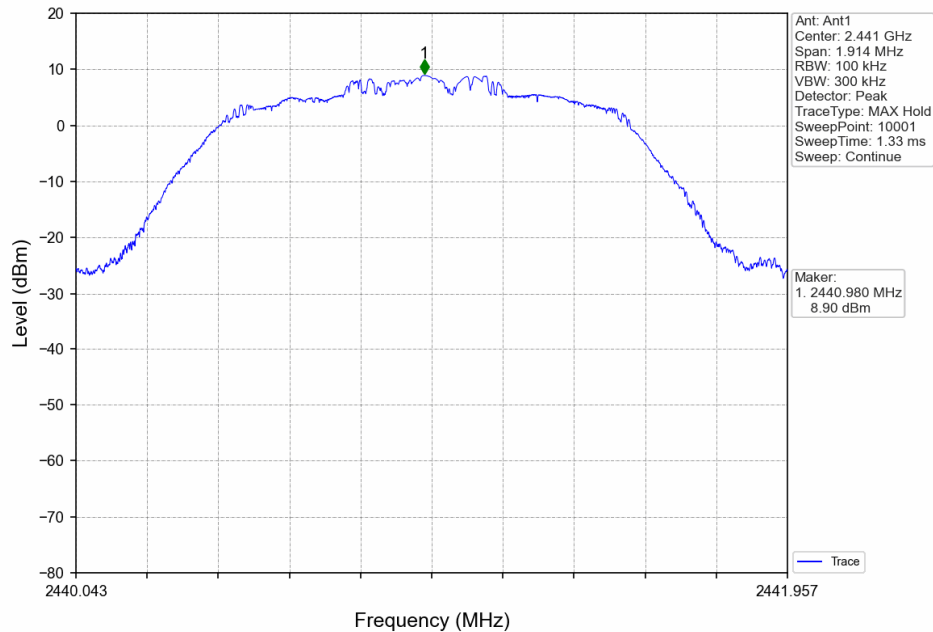
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



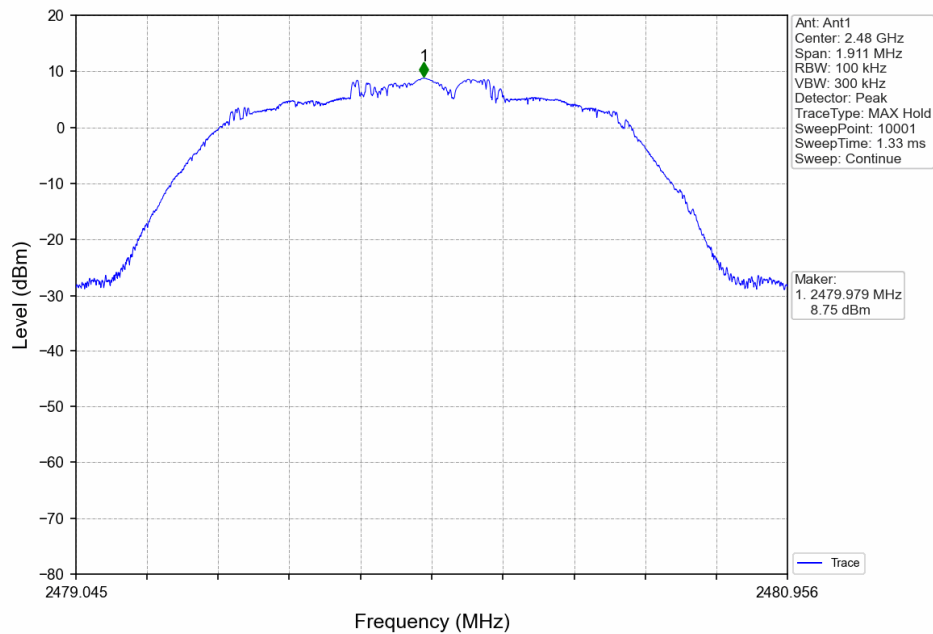
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



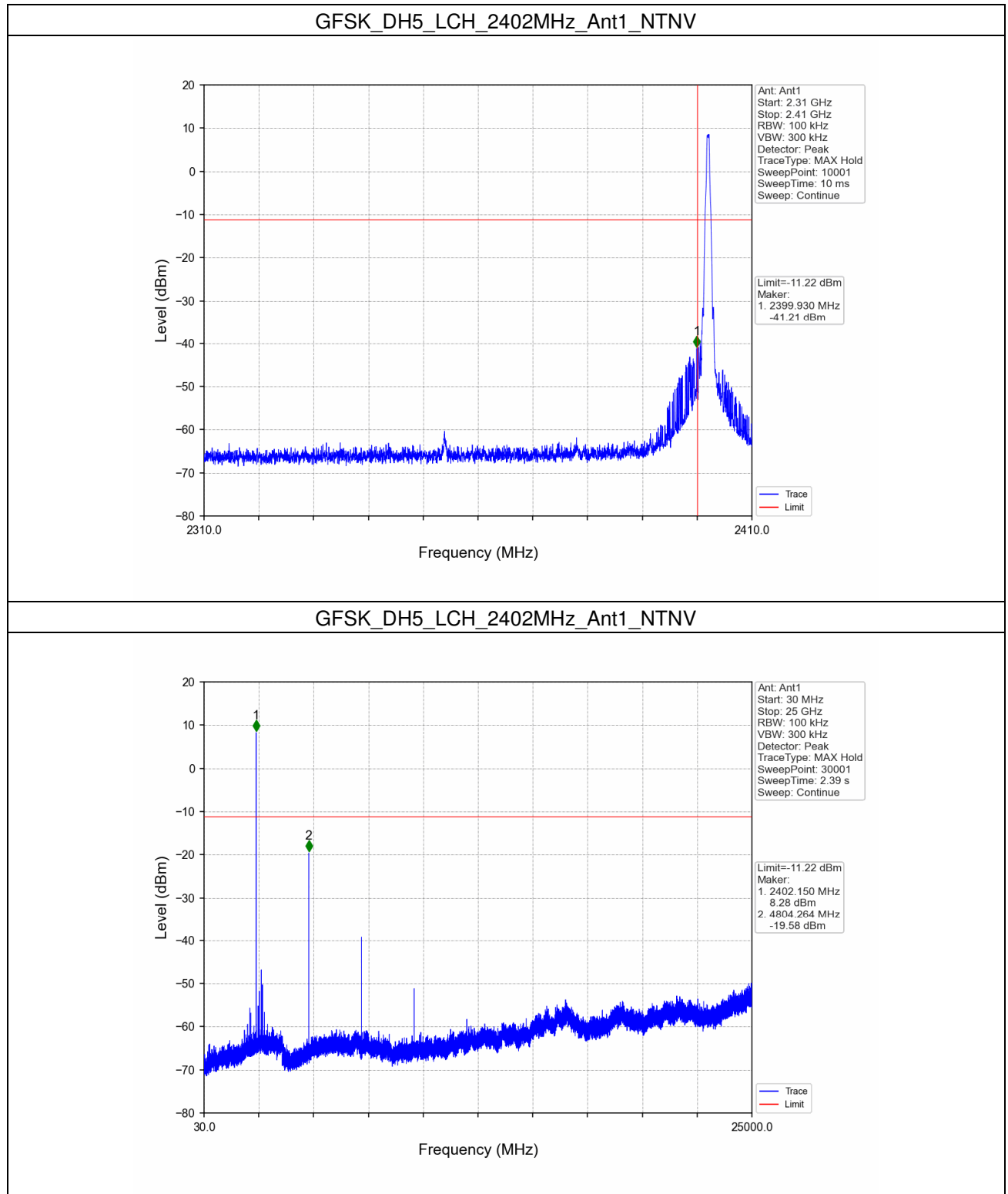


## 6.2 CSE

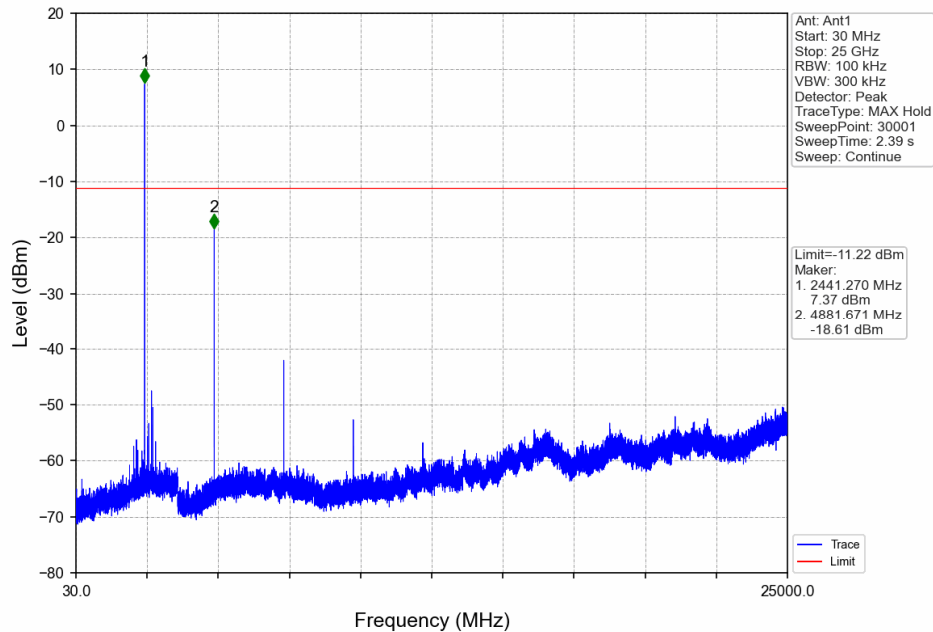
## 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.78	-11.22	Pass
		2441	DH5	1	8.78	-11.22	Pass
		2480	DH5	1	8.78	-11.22	Pass
		HOPP	DH5	1	8.78	-11.22	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.90	-11.10	Pass
		2441	2DH5	1	8.90	-11.10	Pass
		2480	2DH5	1	8.90	-11.10	Pass
		HOPP	2DH5	1	8.90	-11.10	Pass

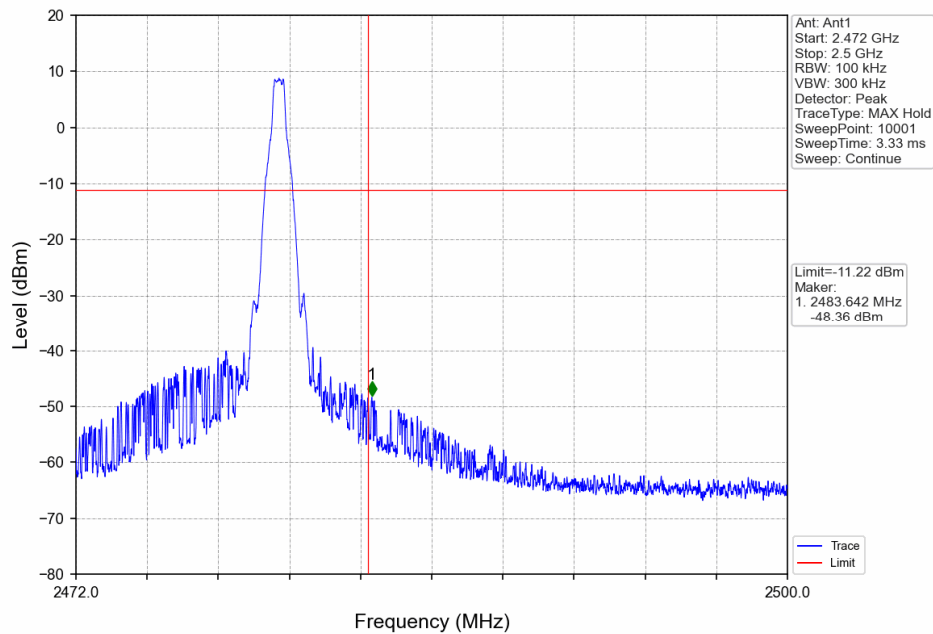
### 6.2.2 Test Graph



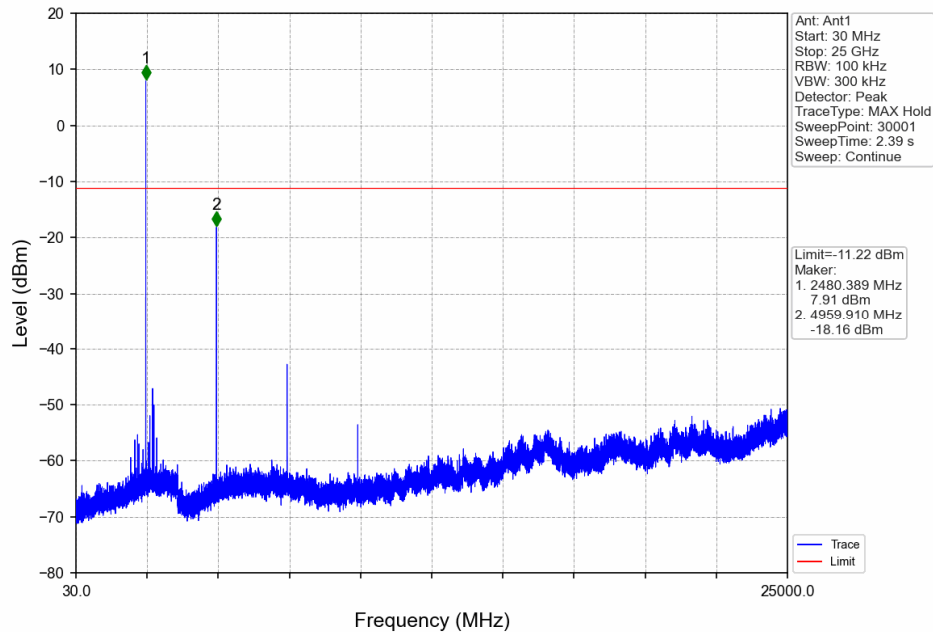
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



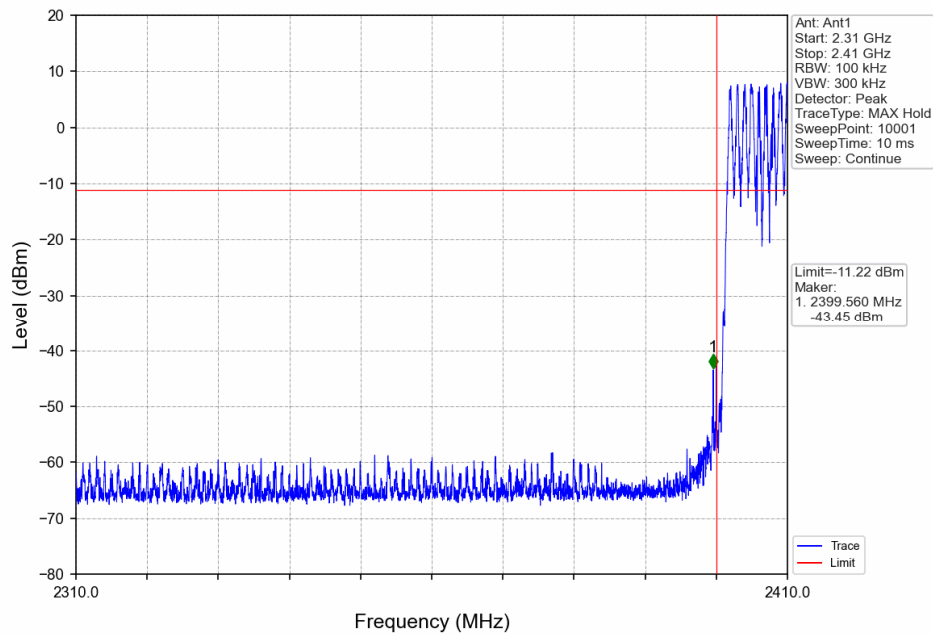
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



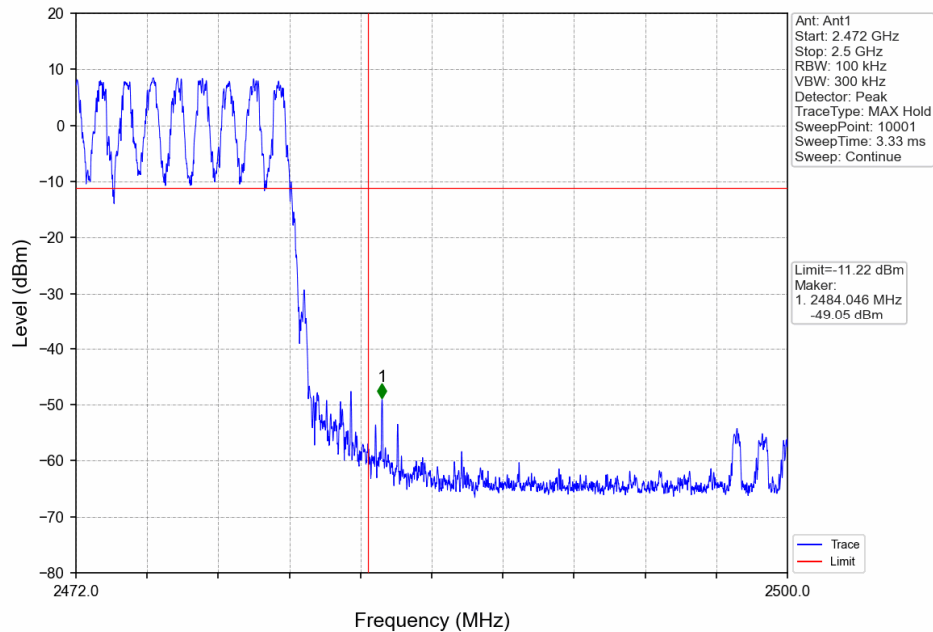
### GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



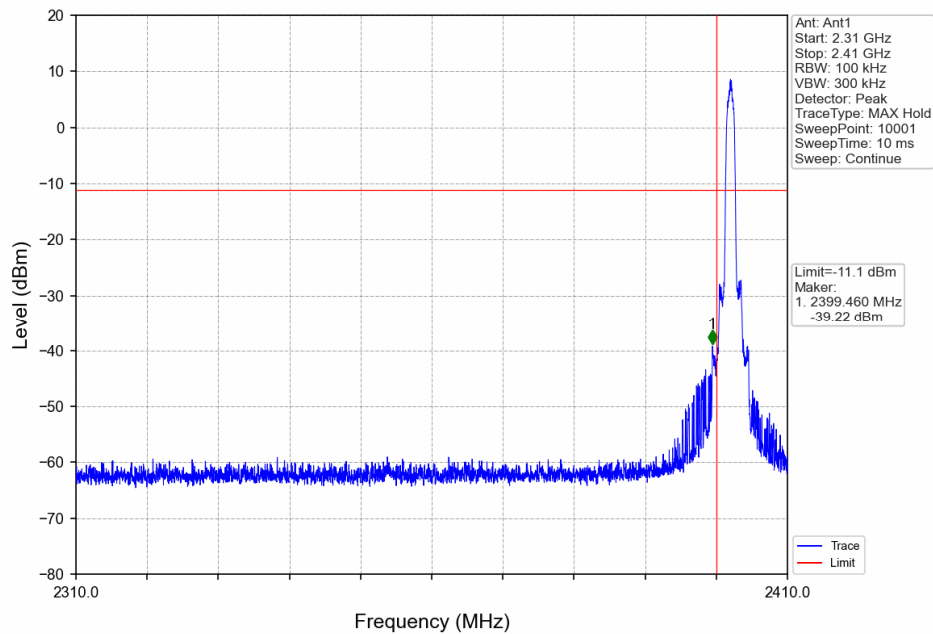
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



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

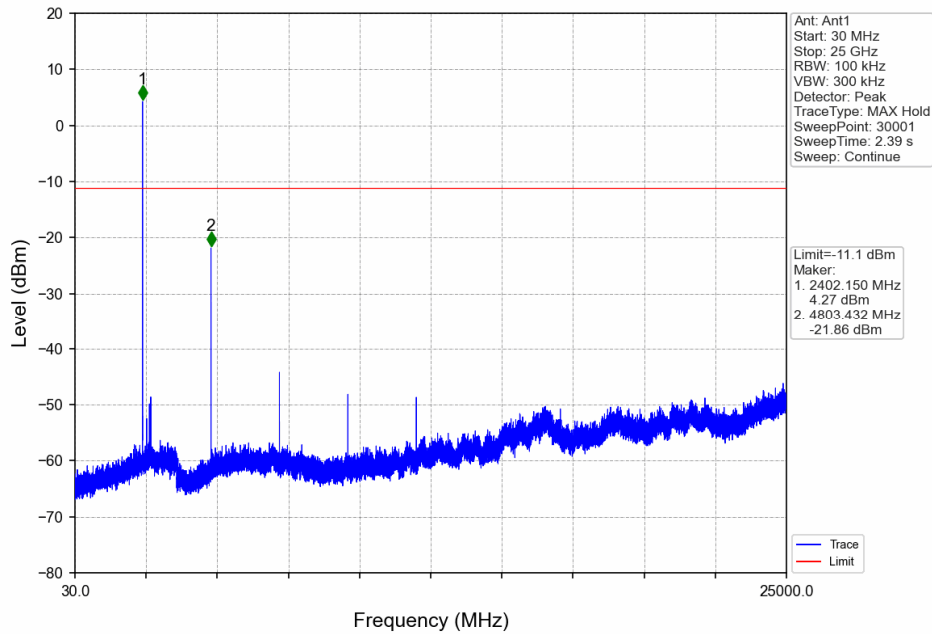


### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

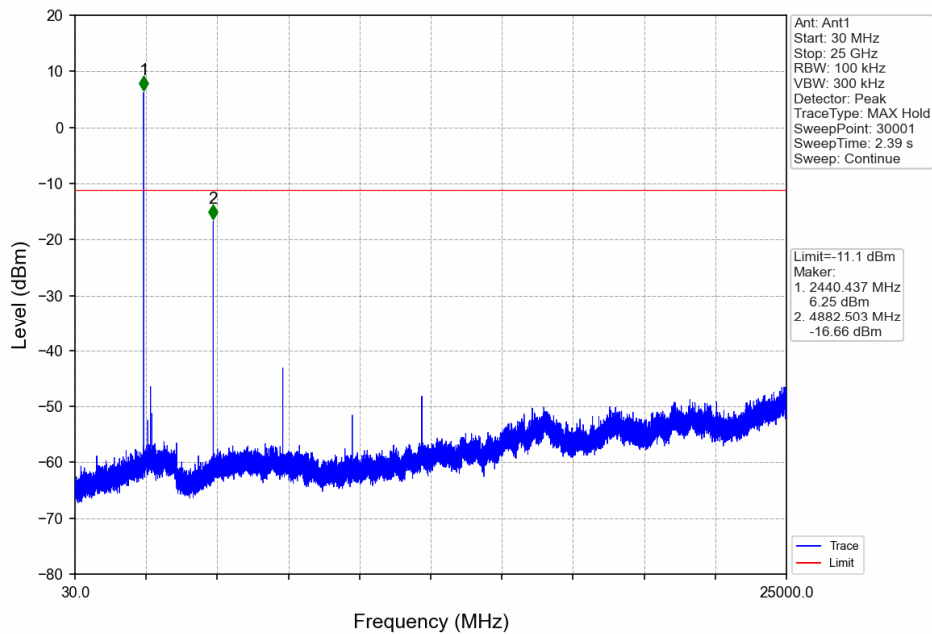




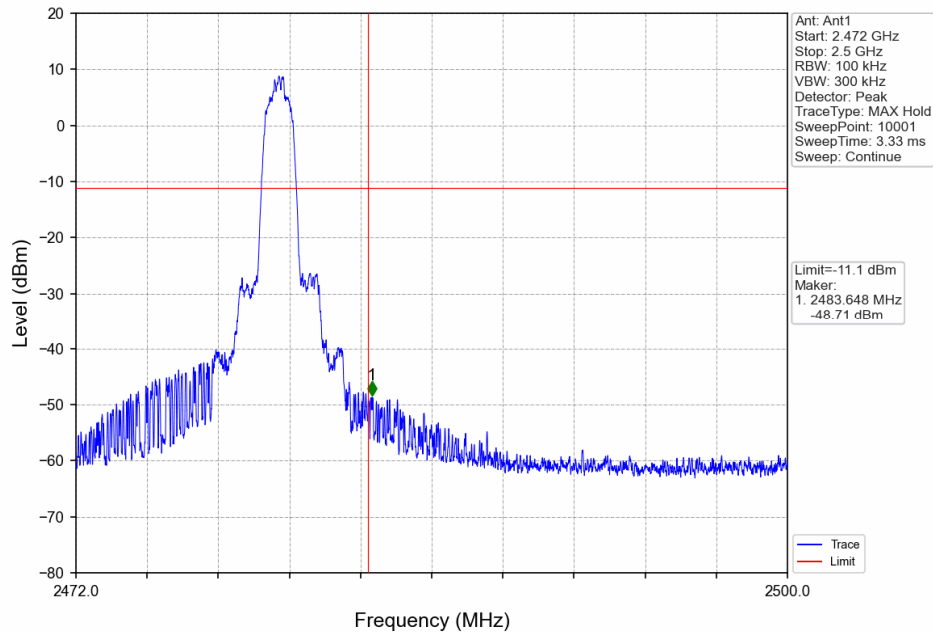
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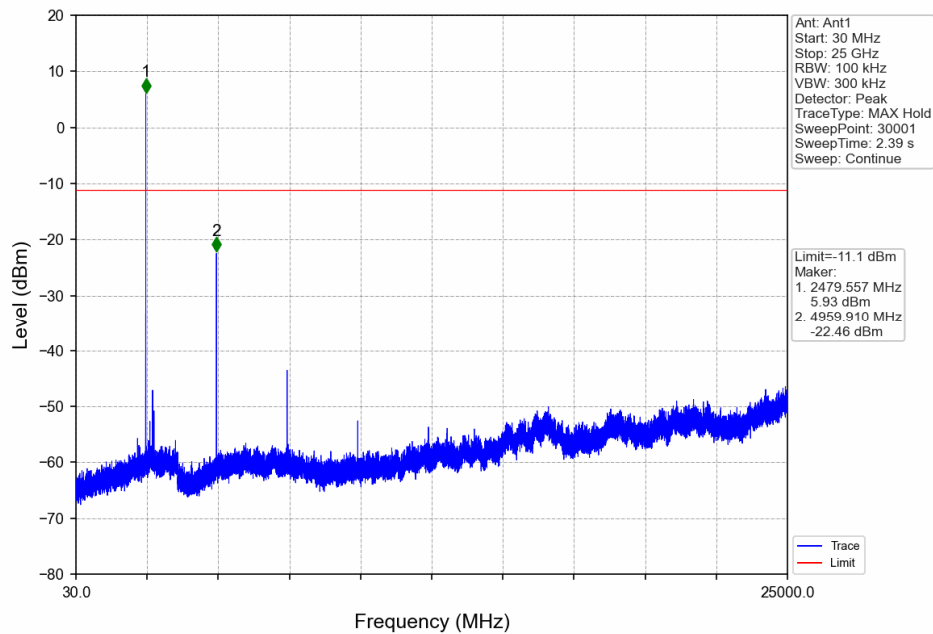
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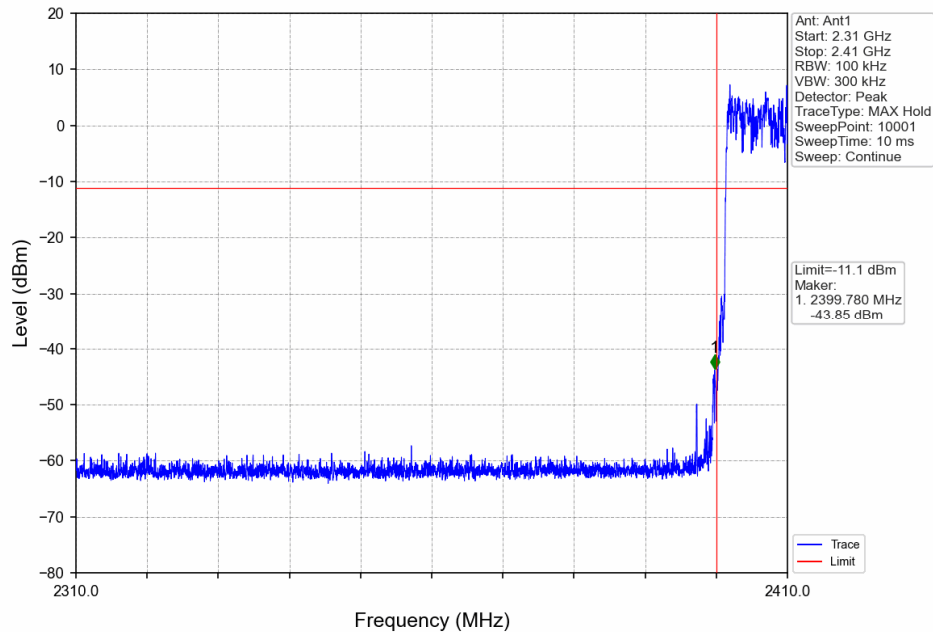
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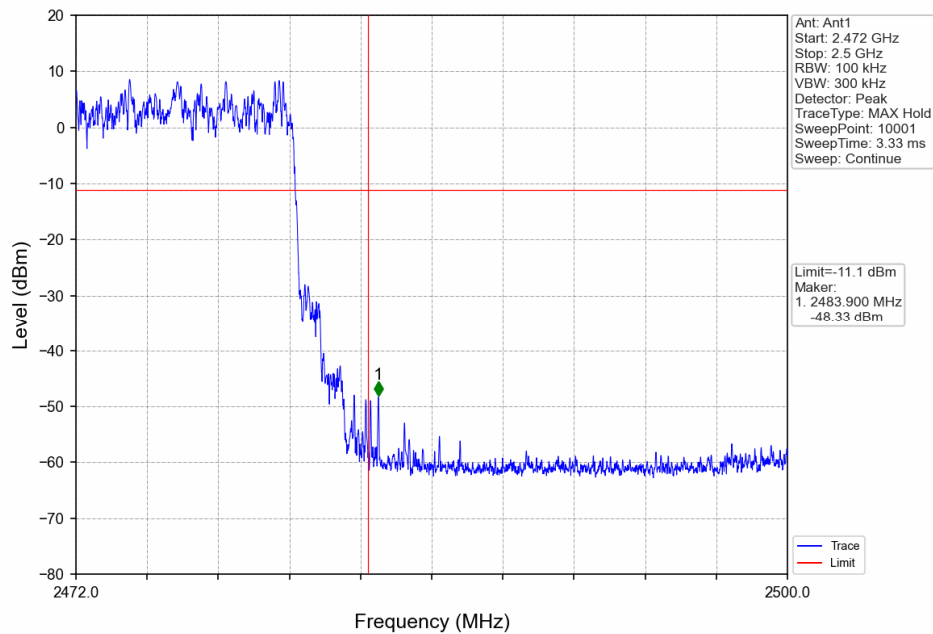
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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



- End of the Report -