

## Appendix Test Data

Project No.:	18220WC10116701	Test Date:	Jun. 03 ~ Jul. 05, 2021
Test Engineer:	<i>Jomy He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.2°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

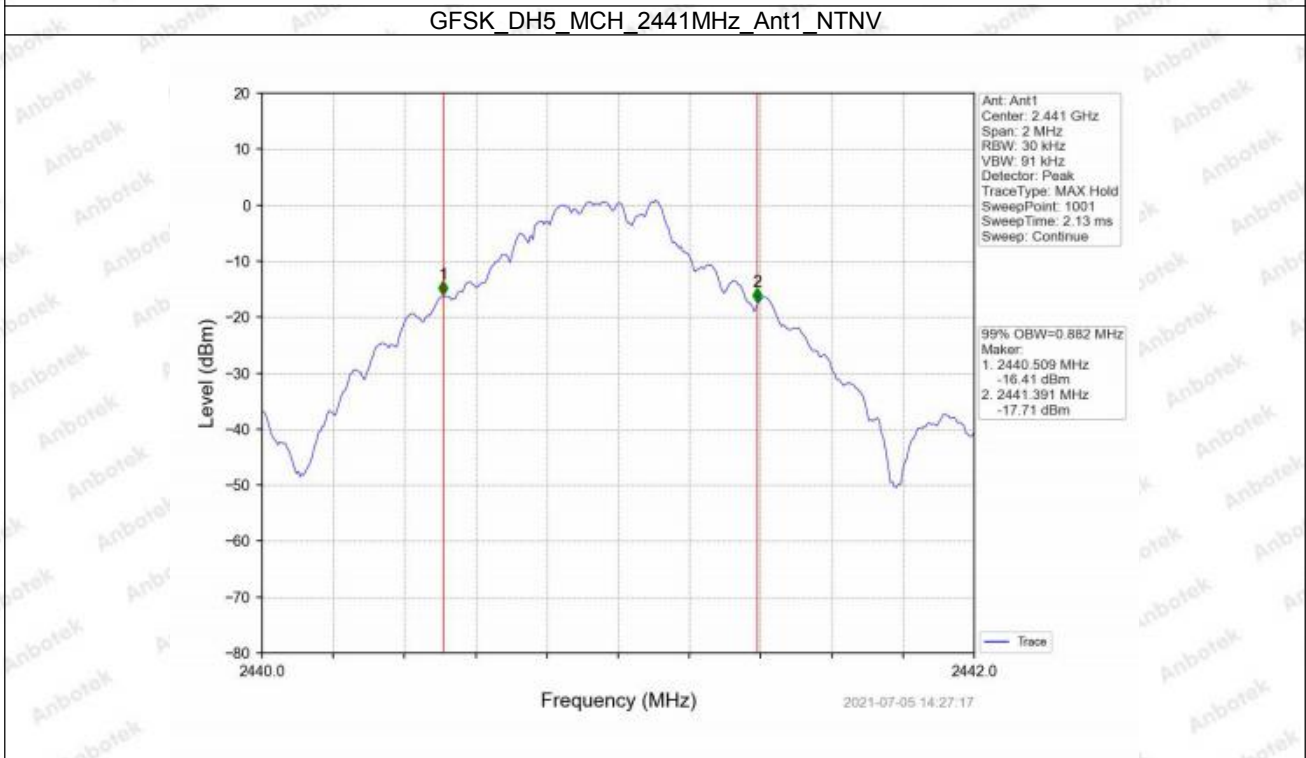
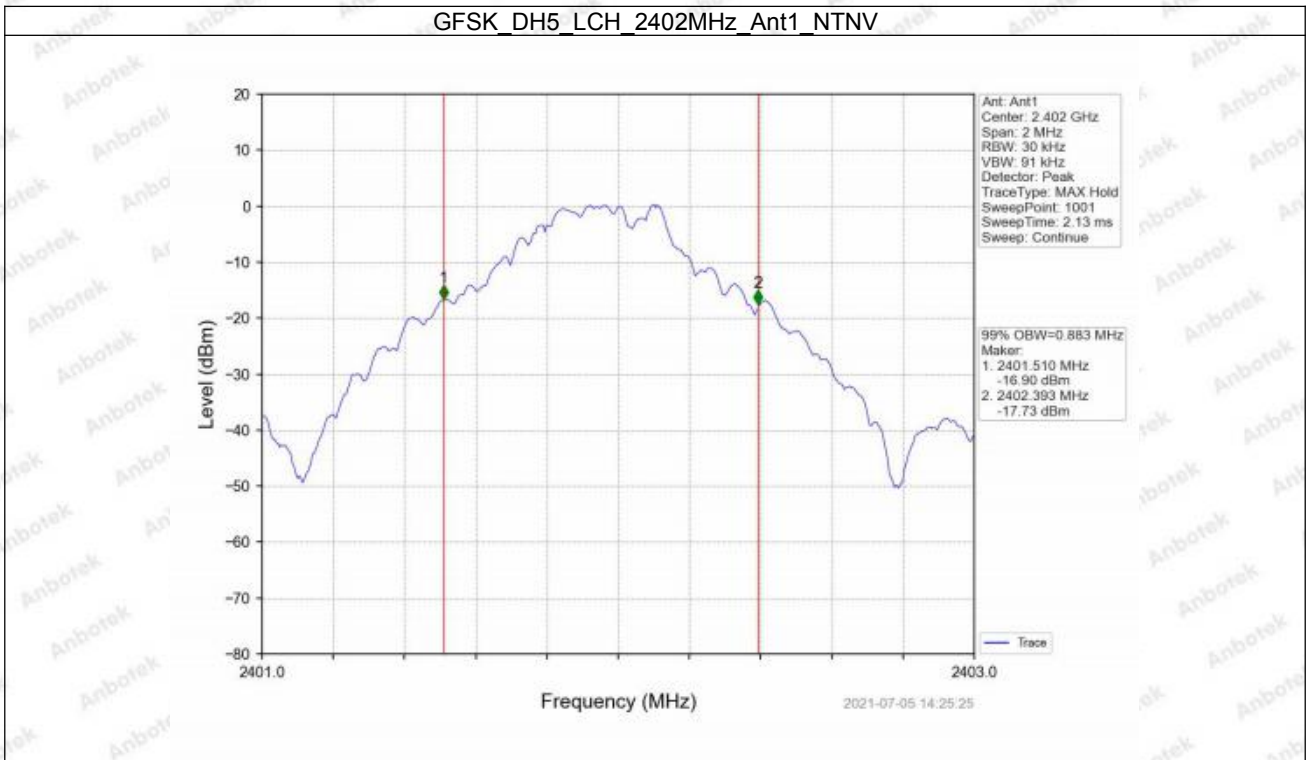
### 1. Bandwidth

#### 1.1 OBW

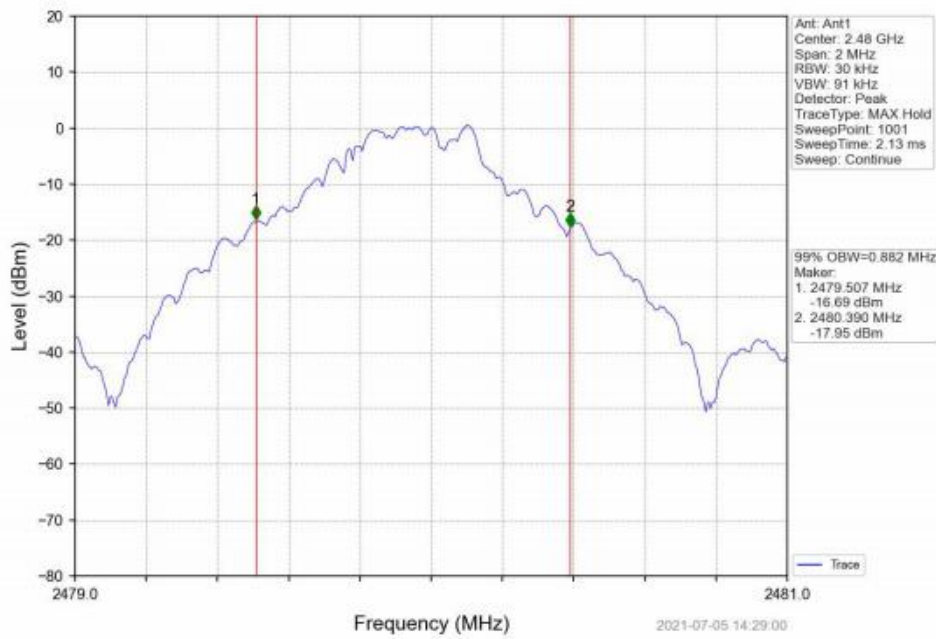
##### 1.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
NTNV	GFSK	SISO	2402	DH5	1	0.88	/	Pass
			2441	DH5	1	0.88	/	Pass
			2480	DH5	1	0.88	/	Pass
	π/4-DQPSK	SISO	2402	2DH5	1	1.15	/	Pass
			2441	2DH5	1	1.15	/	Pass
			2480	2DH5	1	1.15	/	Pass
	8DPSK	SISO	2402	3DH5	1	1.16	/	Pass
			2441	3DH5	1	1.15	/	Pass
			2480	3DH5	1	1.16	/	Pass

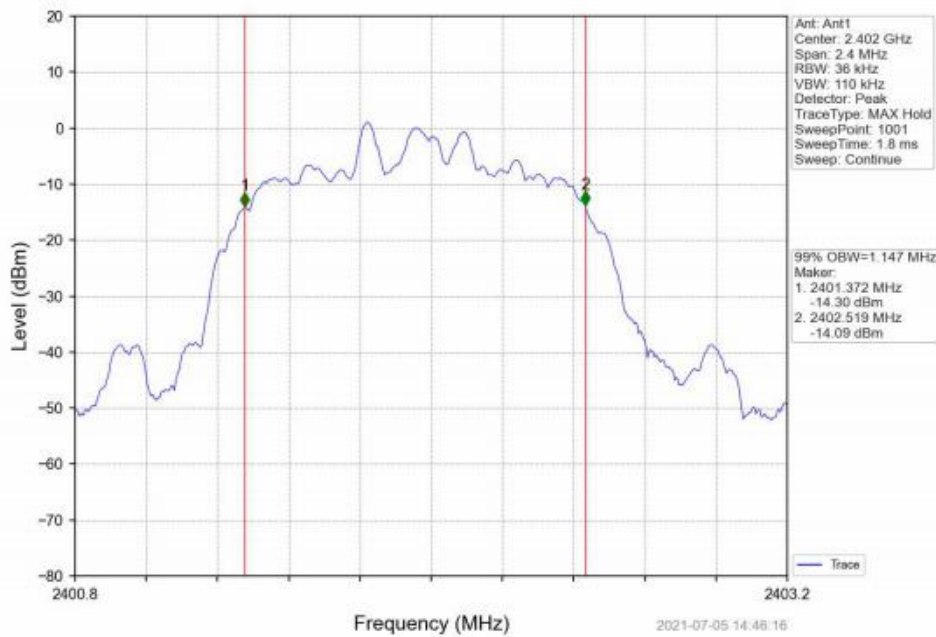
1.1.2 Test Graph



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



$\pi$ /4-DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



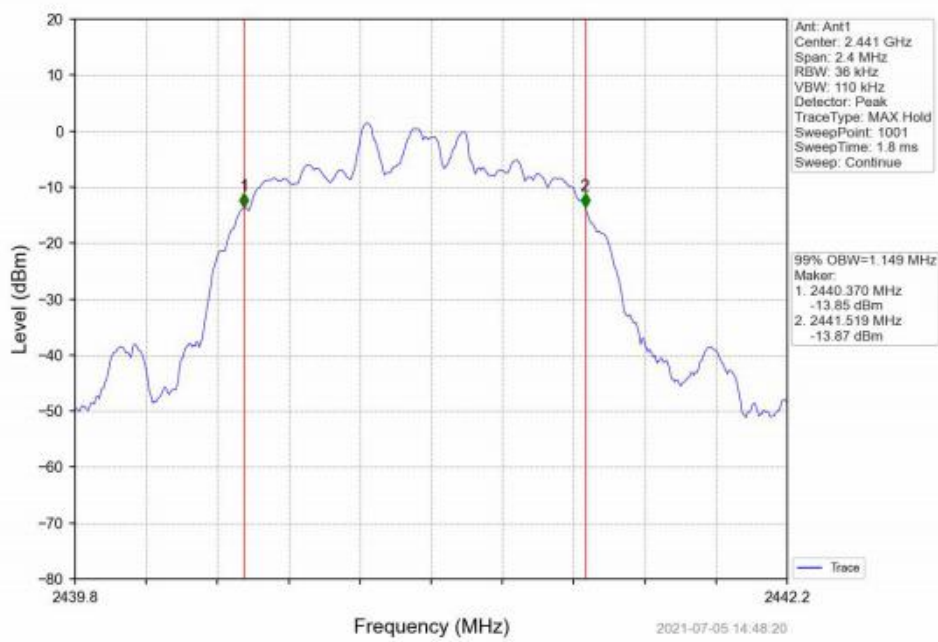
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

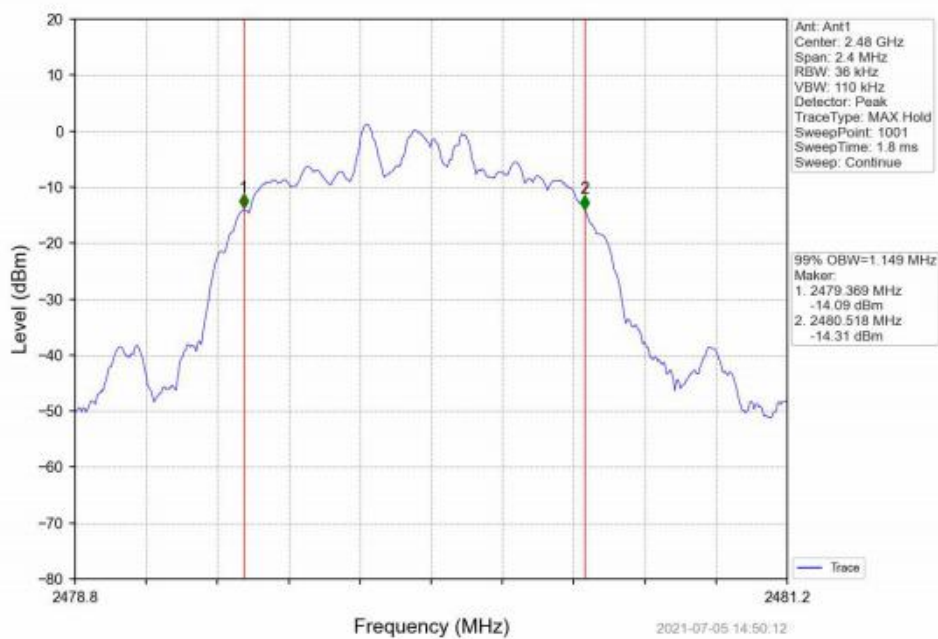
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400-003-0500  
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$\pi$  /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



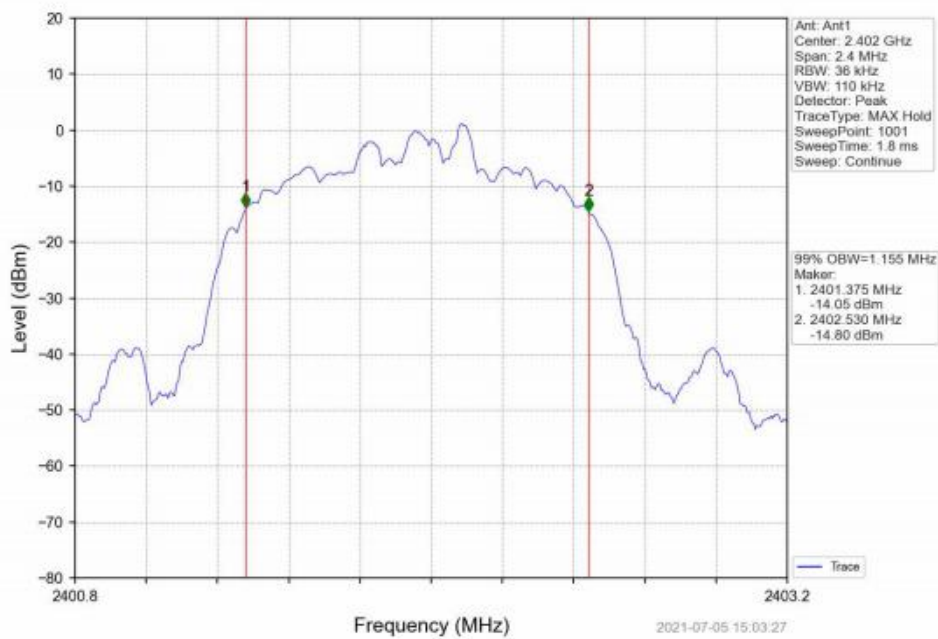
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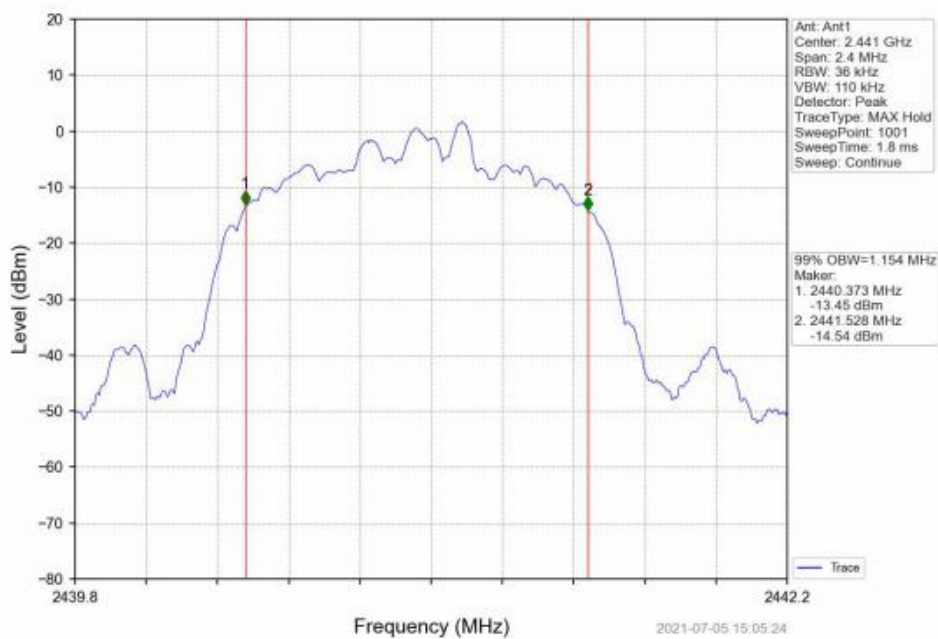
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8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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

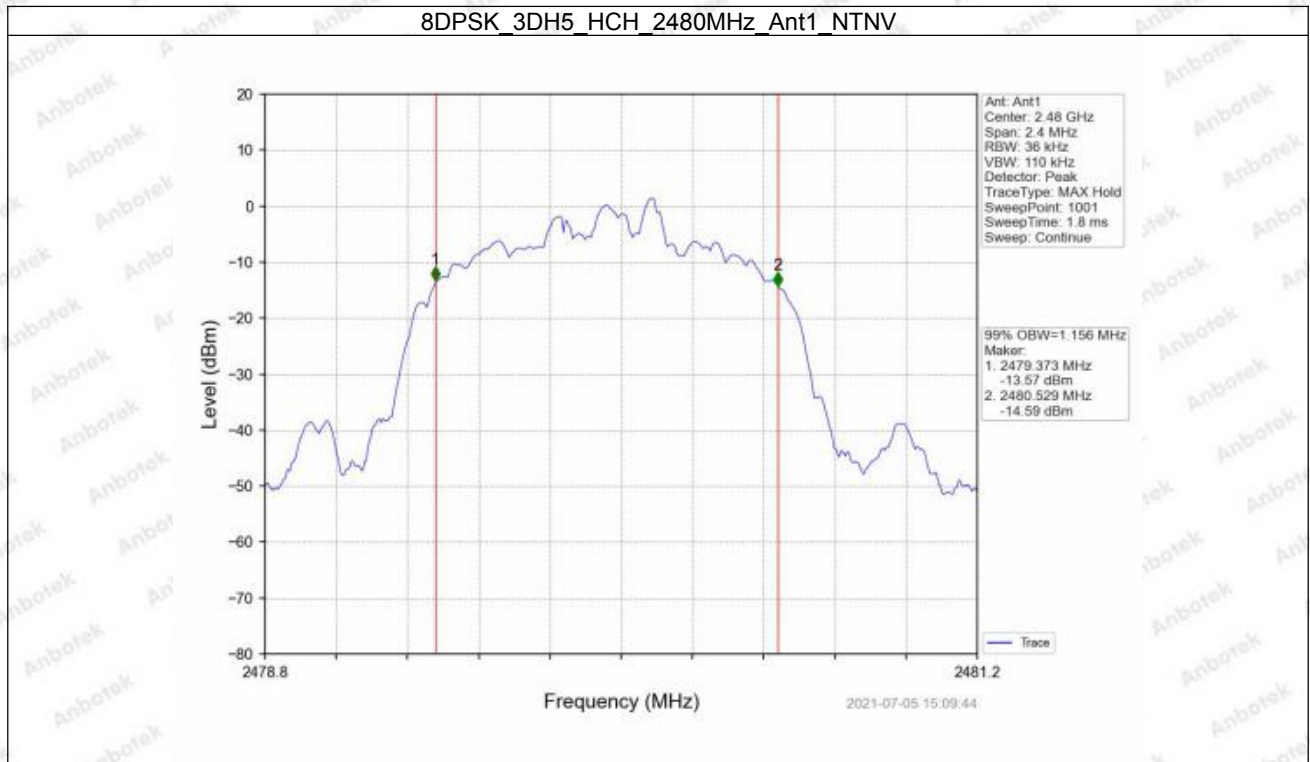


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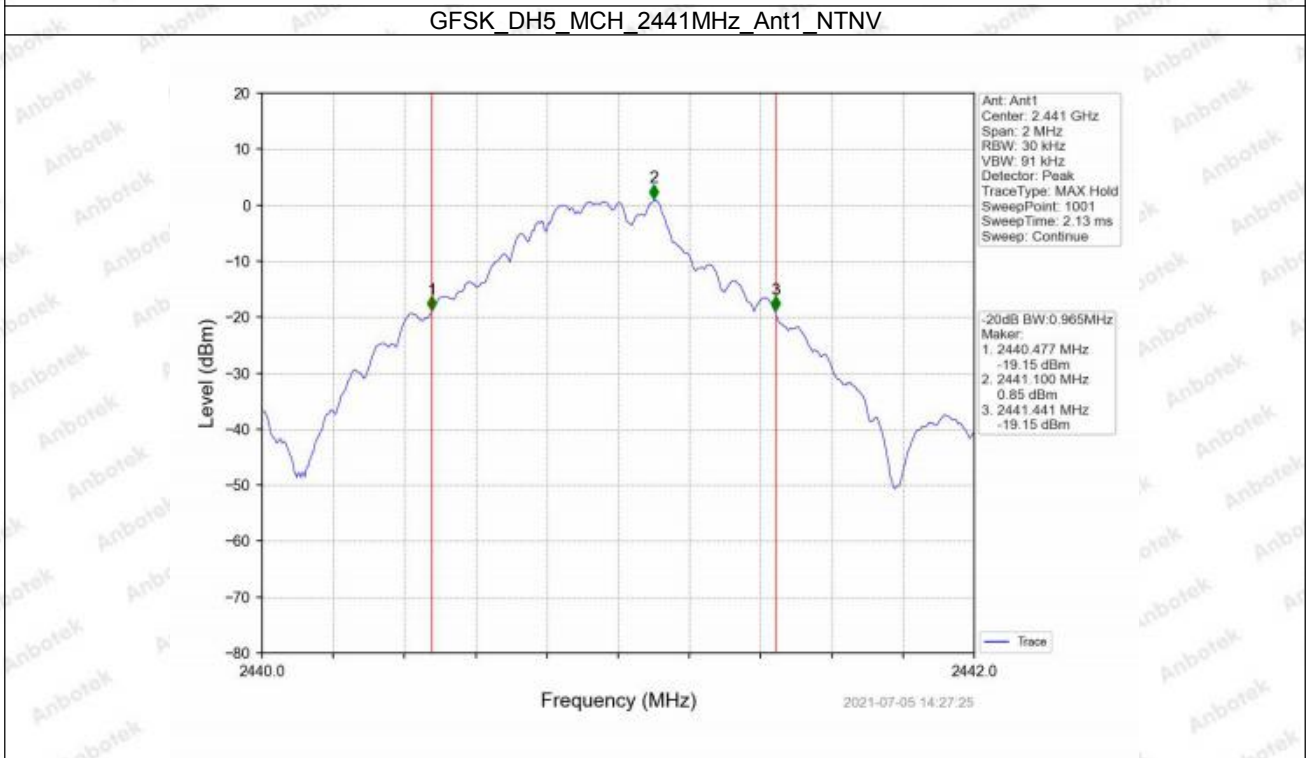
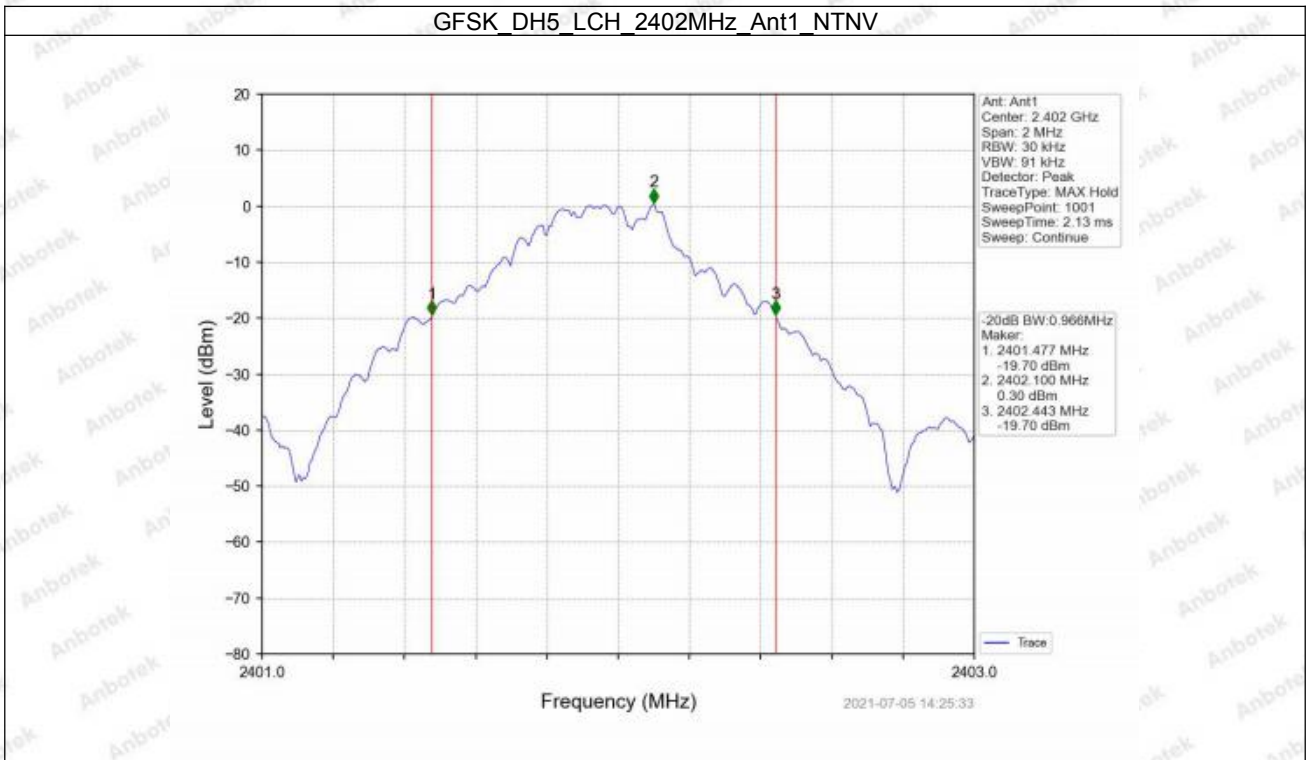
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## 1.2 20dB BW

### 1.2.1 Test Result

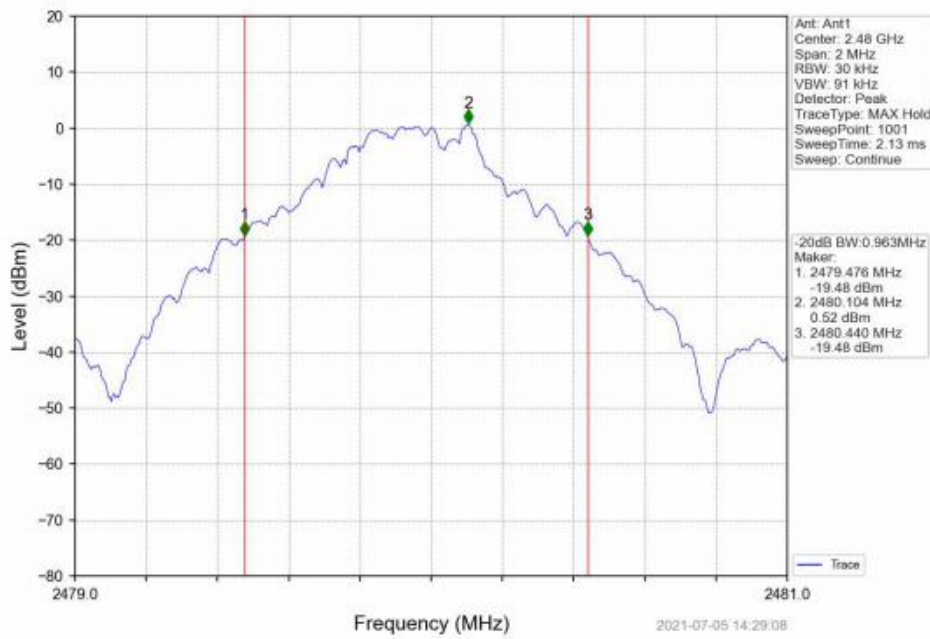
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Limit	Verdict
NTNV	GFSK	SISO	2402	DH5	1	0.97	/	Pass
			2441	DH5	1	0.96	/	Pass
			2480	DH5	1	0.96	/	Pass
	$\pi$ /4-DQPSK	SISO	2402	2DH5	1	1.26	/	Pass
			2441	2DH5	1	1.26	/	Pass
			2480	2DH5	1	1.26	/	Pass
	8DPSK	SISO	2402	3DH5	1	1.28	/	Pass
			2441	3DH5	1	1.28	/	Pass
			2480	3DH5	1	1.28	/	Pass

## 1.2.2 Test Graph

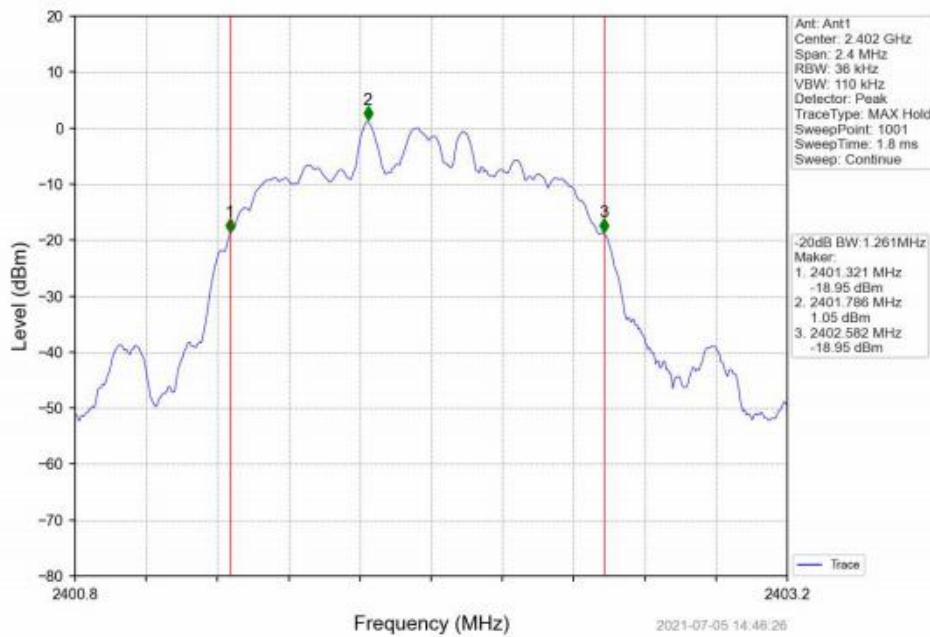




GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



$\pi$ /4-QPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



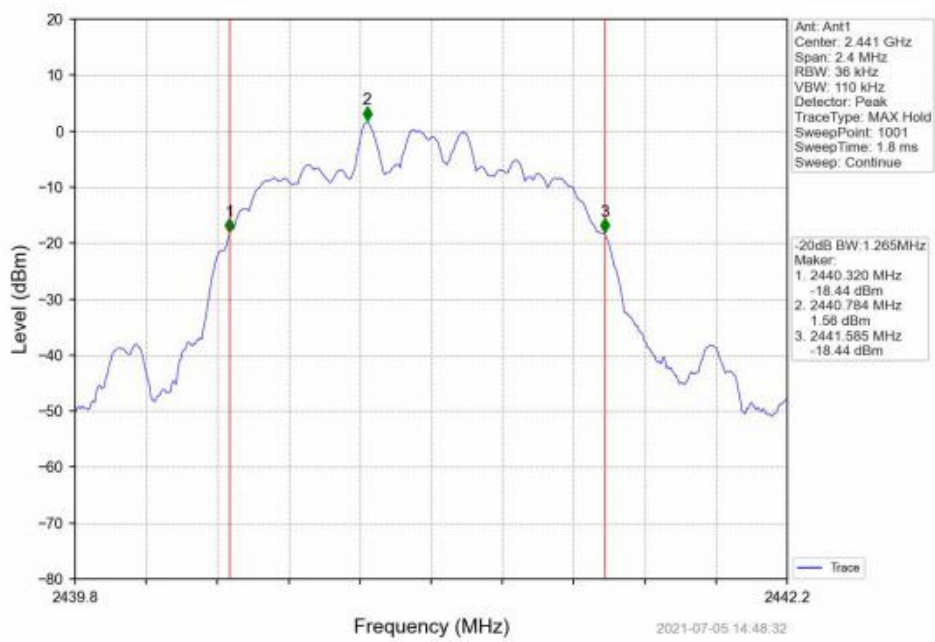
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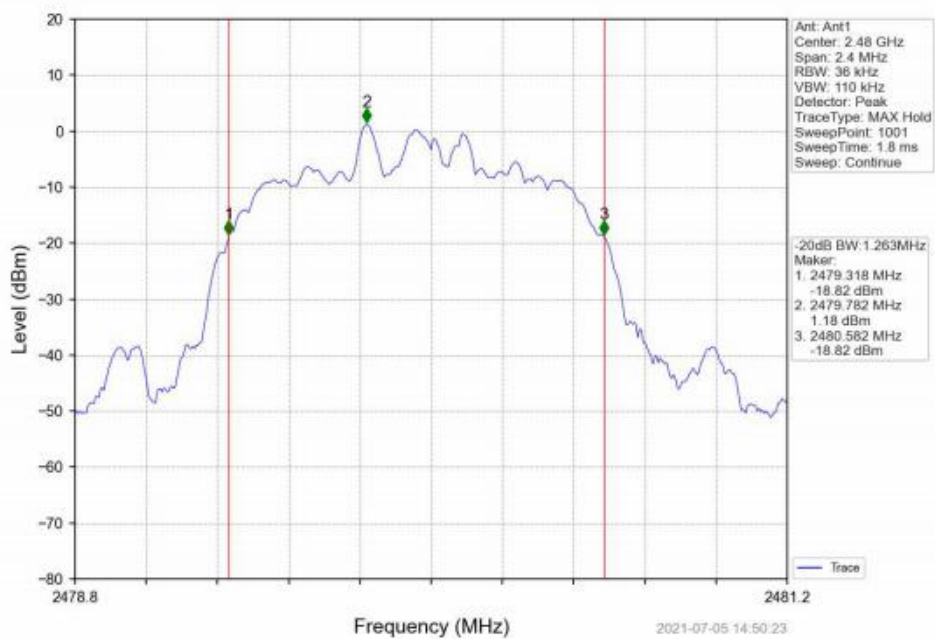
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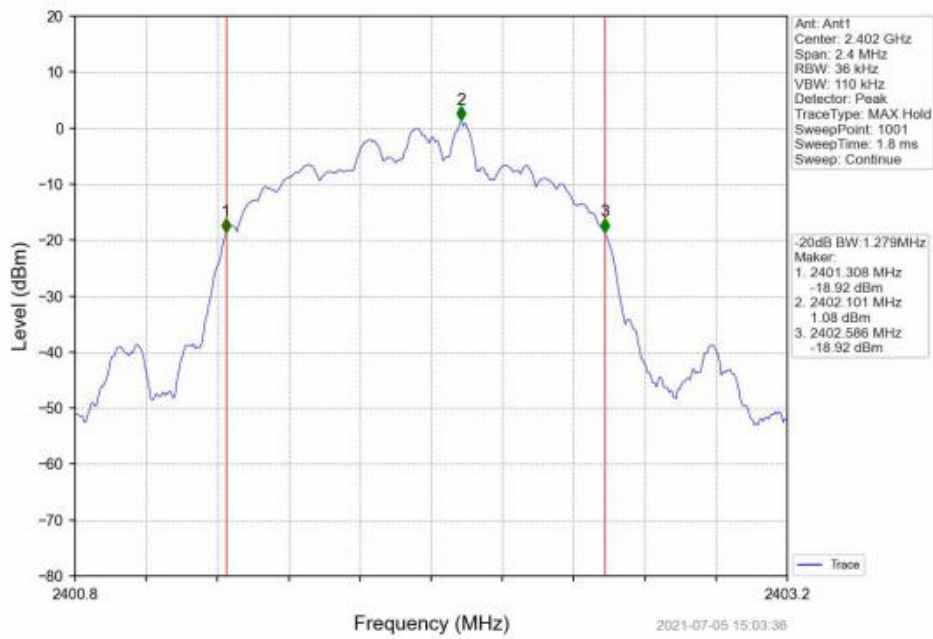
$\pi$  /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



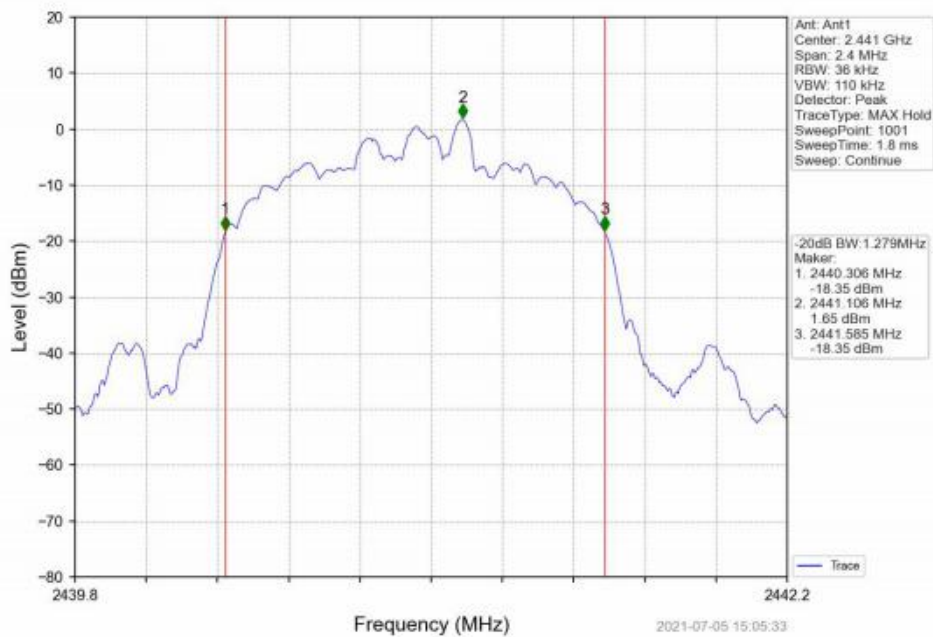
$\pi$  /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

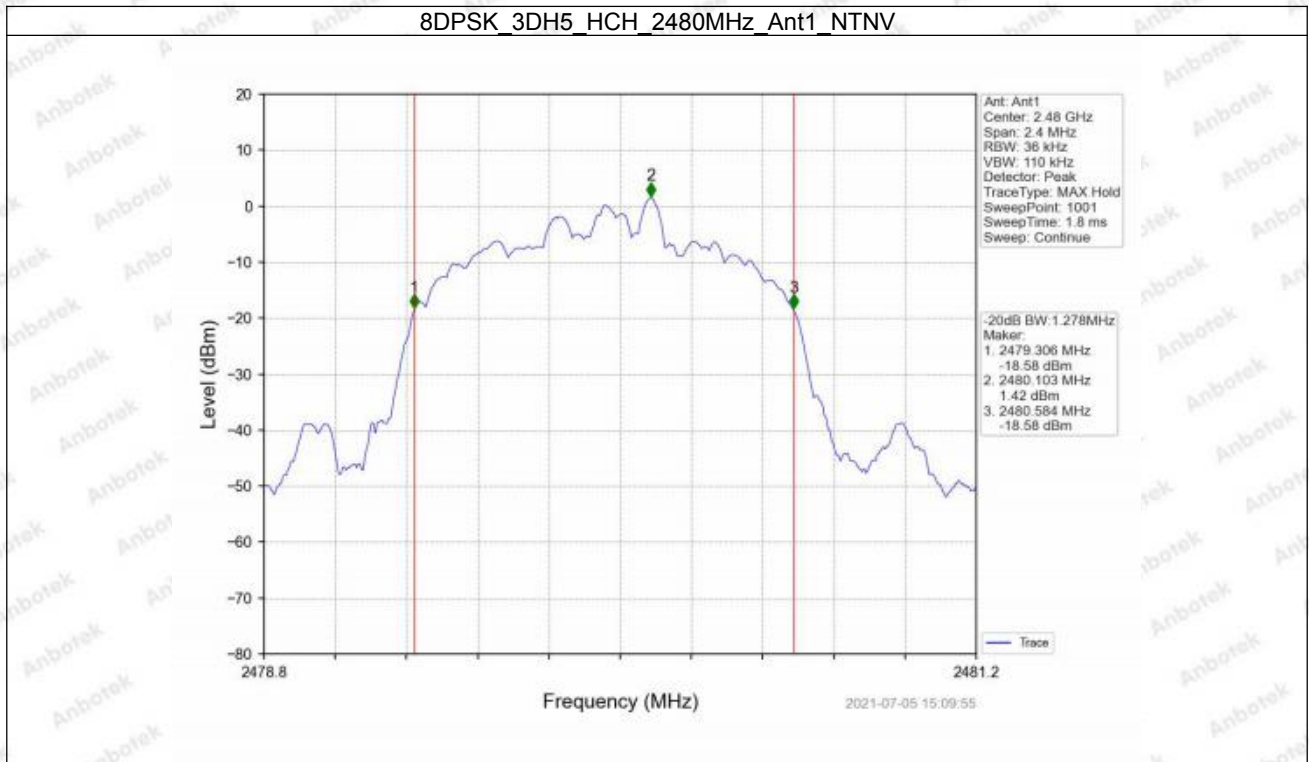


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

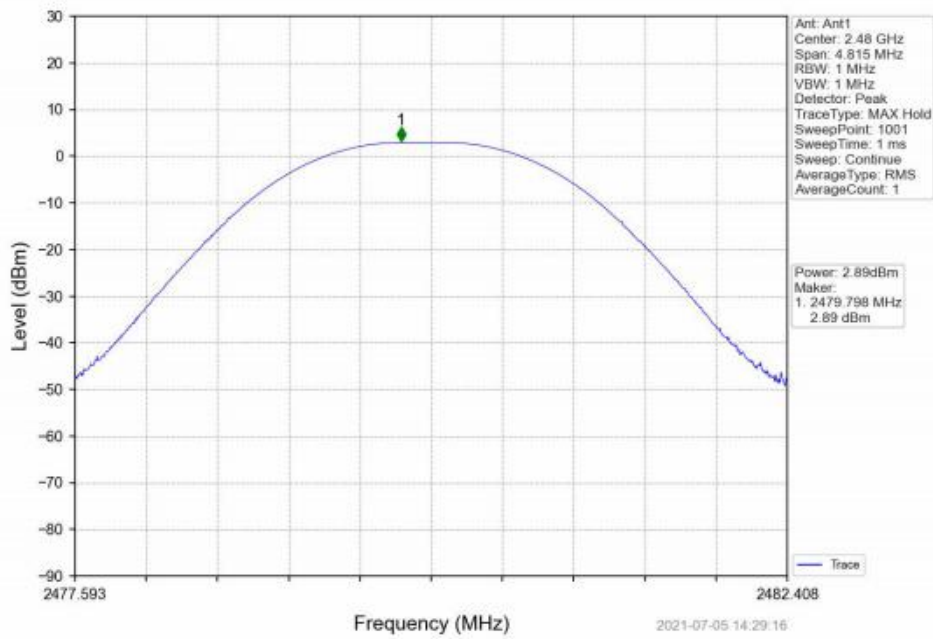
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Peak Output Power (dBm)		Verdict
					Ant1	Limit	
NTNV	GFSK	SISO	2402	DH5	2.75	<=30	Pass
			2441	DH5	3.23	<=30	Pass
			2480	DH5	2.89	<=30	Pass
	π/4-DQPSK	SISO	2402	2DH5	2.78	<=20.97	Pass
			2441	2DH5	3.29	<=20.97	Pass
			2480	2DH5	2.94	<=20.97	Pass
	8DPSK	SISO	2402	3DH5	2.72	<=20.97	Pass
			2441	3DH5	3.19	<=20.97	Pass
			2480	3DH5	2.95	<=20.97	Pass

Note1: Antenna Gain: Ant1: -1.32dBi;

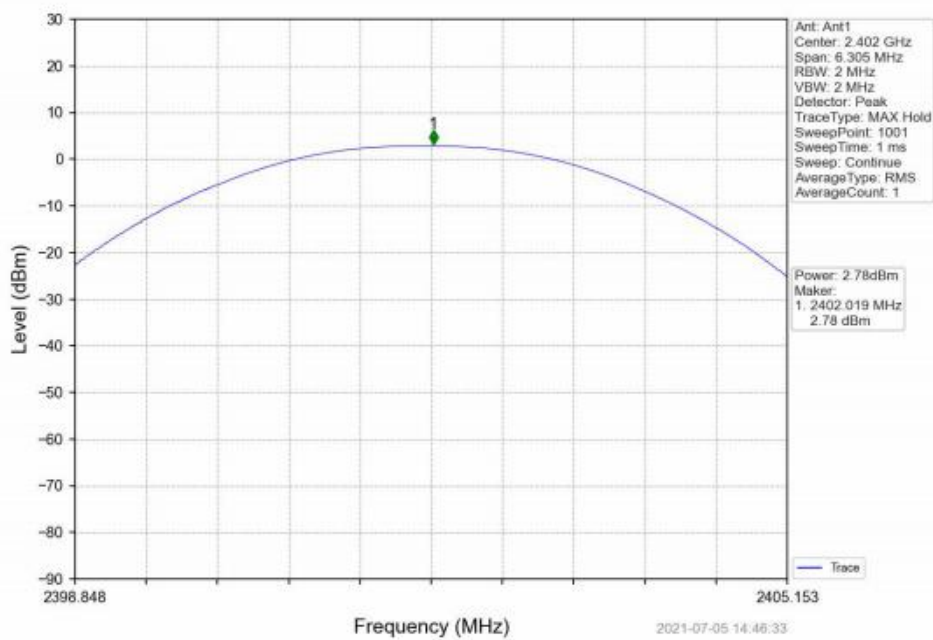
2.1.2 Test Graph



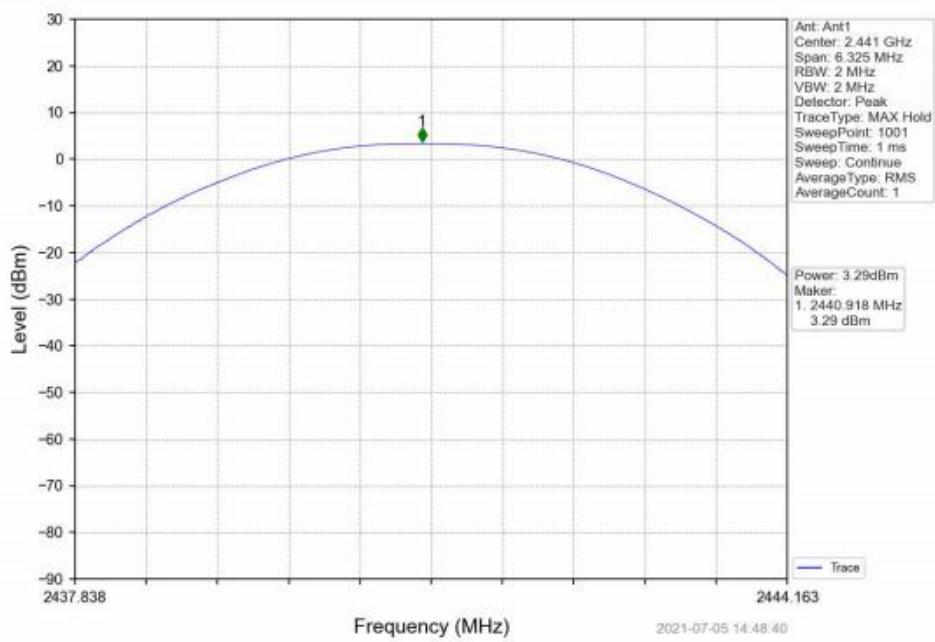
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



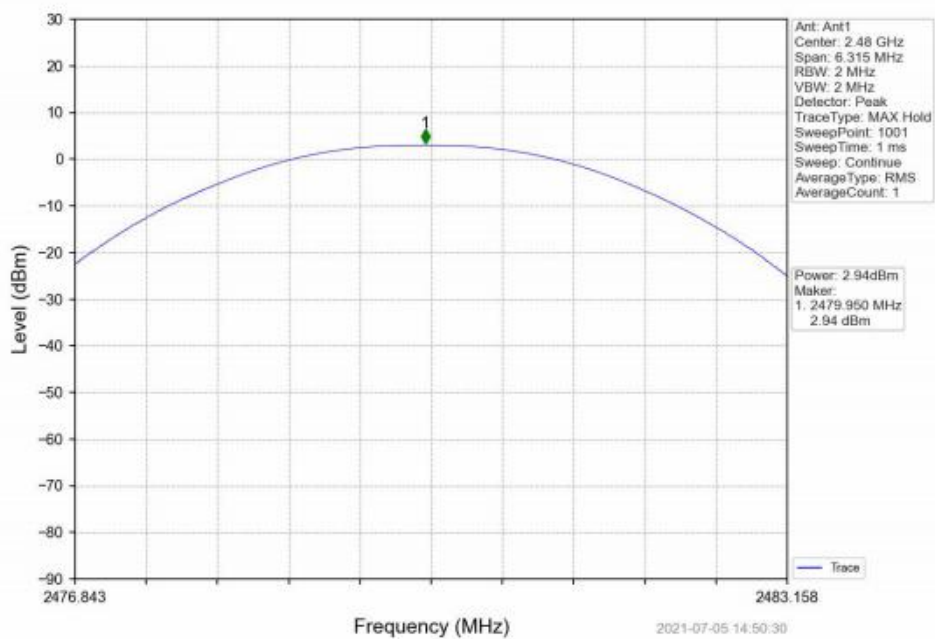
$\pi$ /4-DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV

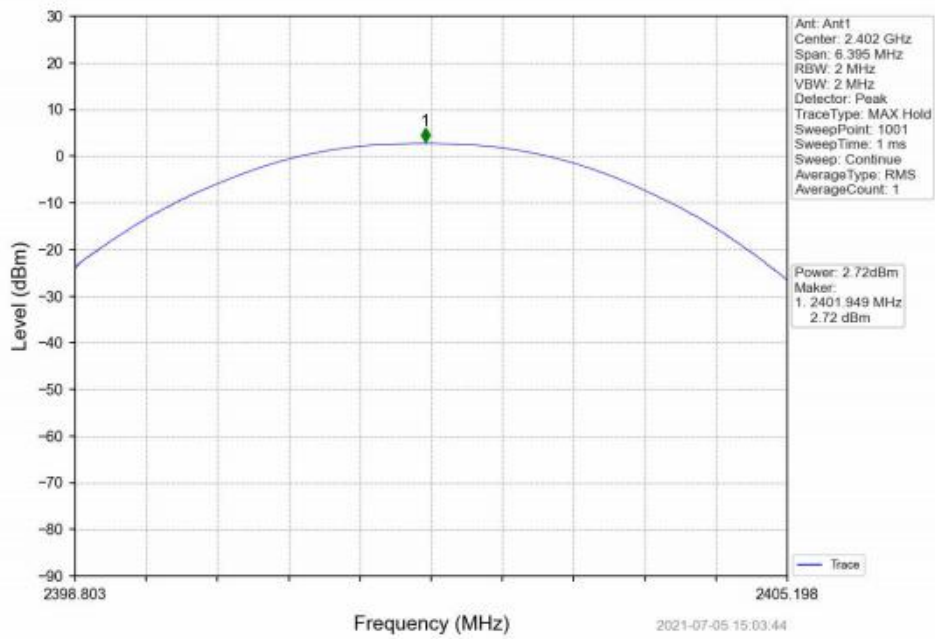


$\pi$  /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

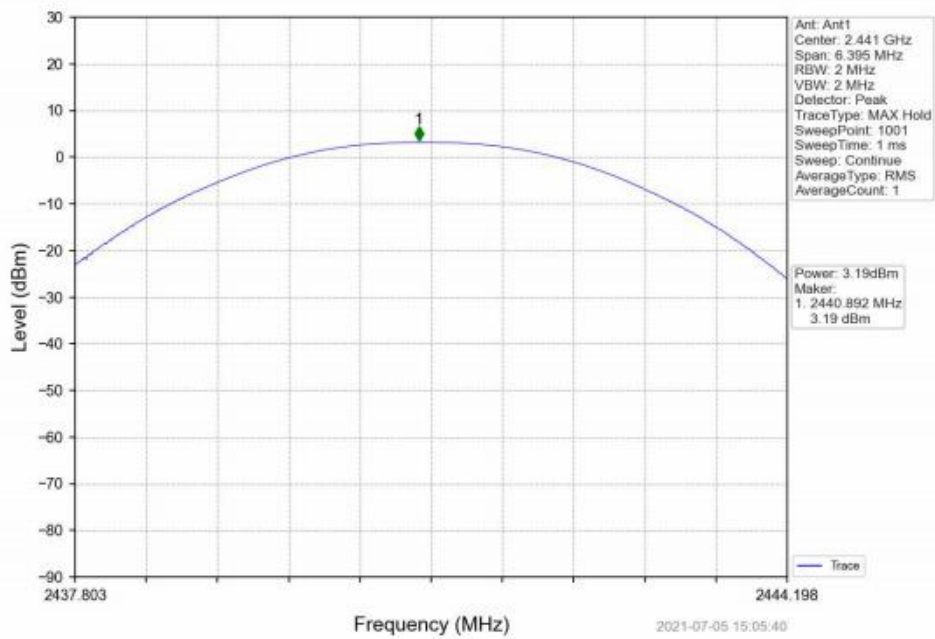


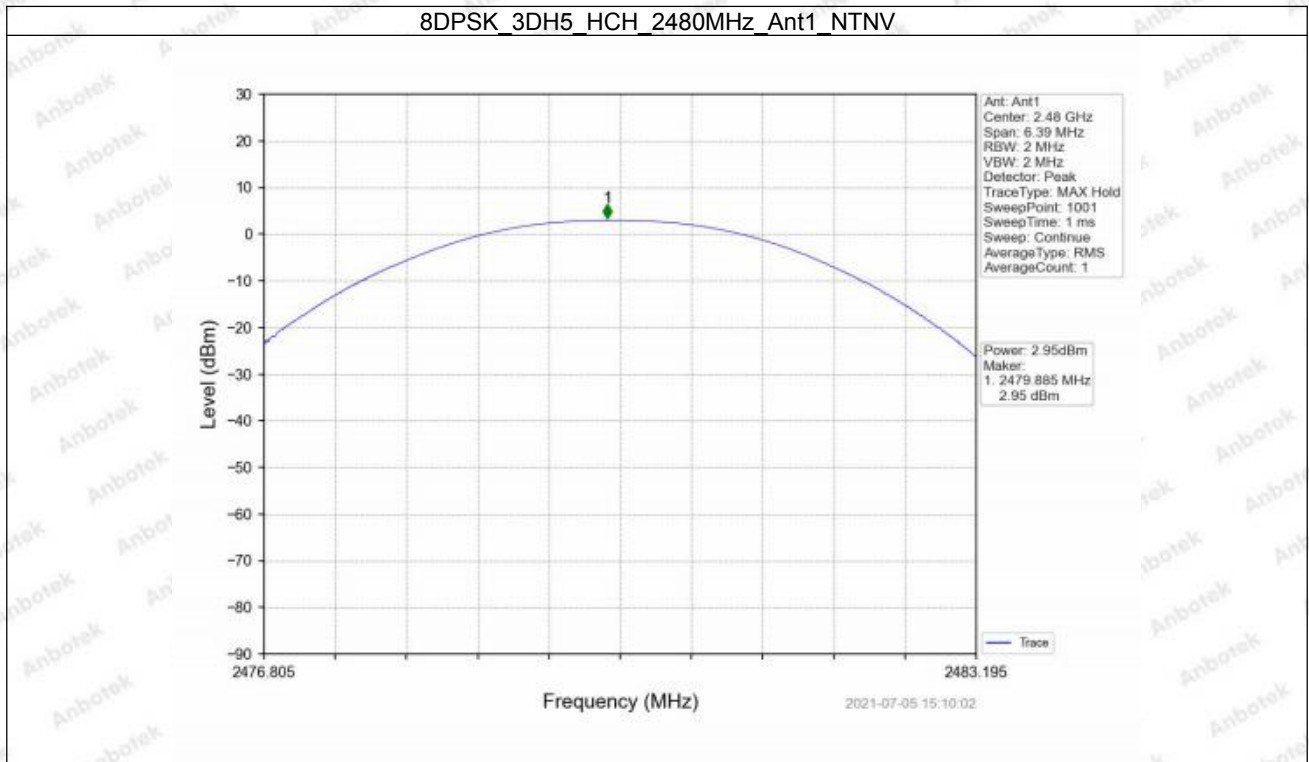


8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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





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## 2.2 EIRP

### 2.2.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	E.I.R.P (dBm)		Verdict
					Ant1	Limit	
NTNV	GFSK	SISO	2402	DH5	1.43	<=36.02	Pass
			2441	DH5	1.91	<=36.02	Pass
			2480	DH5	1.57	<=36.02	Pass
	$\pi/4$ -DQPSK	SISO	2402	2DH5	1.46	<=36.02	Pass
			2441	2DH5	1.97	<=36.02	Pass
			2480	2DH5	1.62	<=36.02	Pass
	8DPSK	SISO	2402	3DH5	1.4	<=36.02	Pass
			2441	3DH5	1.87	<=36.02	Pass
			2480	3DH5	1.63	<=36.02	Pass

Note1: Antenna Gain: Ant1: -1.32dBi;  
 Note2: E.I.R.P = Measured Power + Antenna Gain

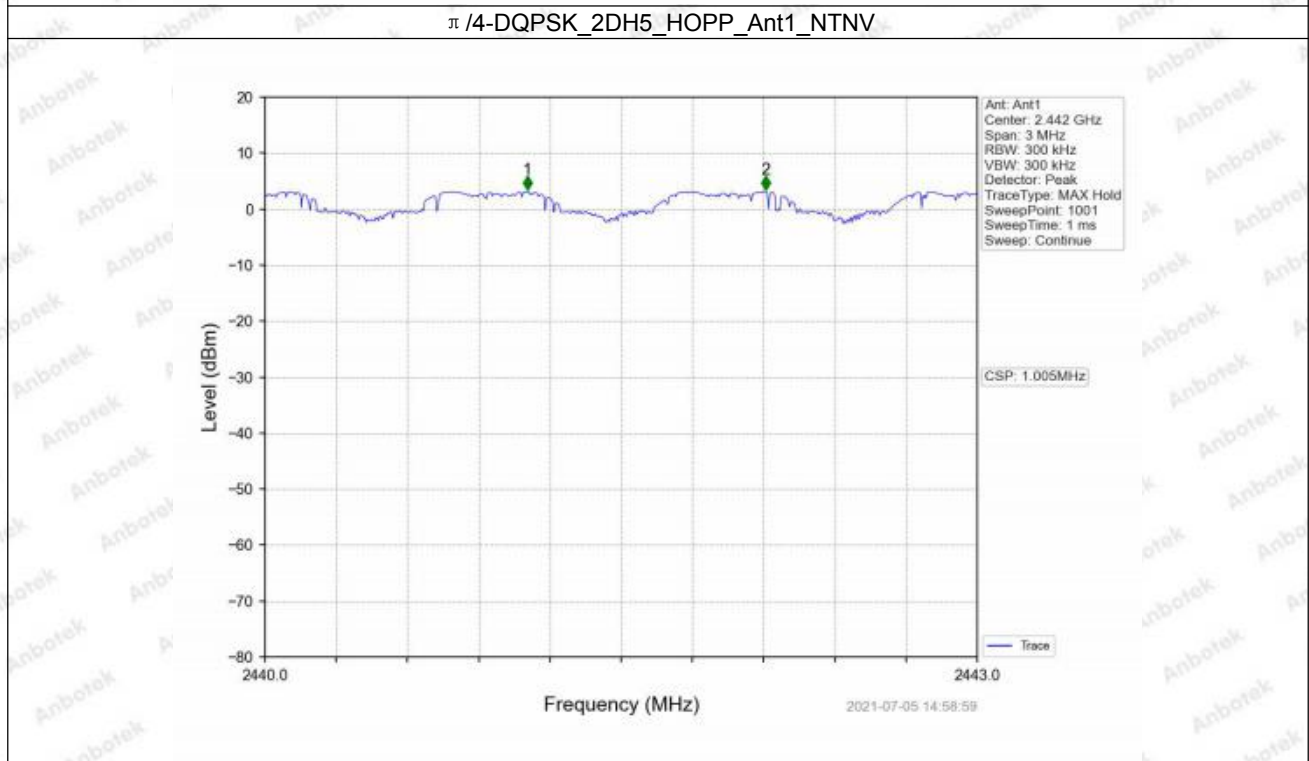
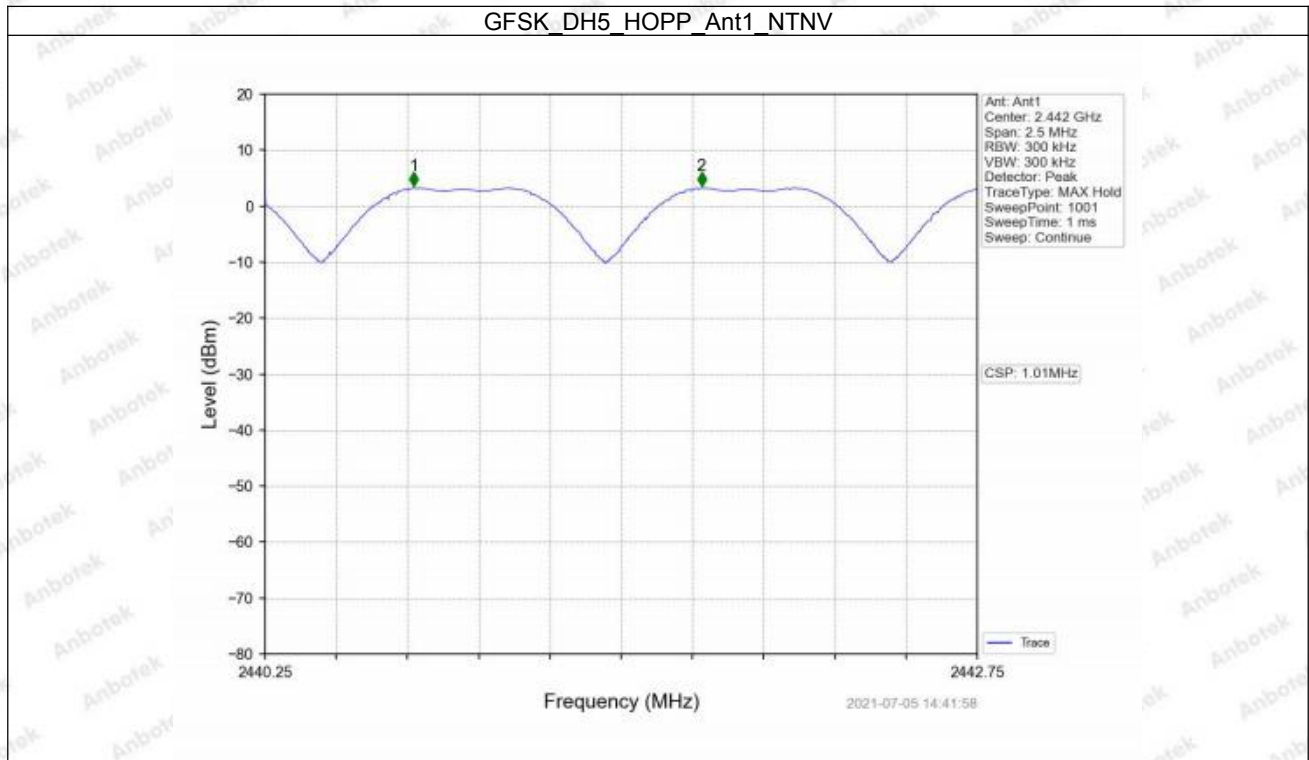
## 3. Carrier Frequency Separation

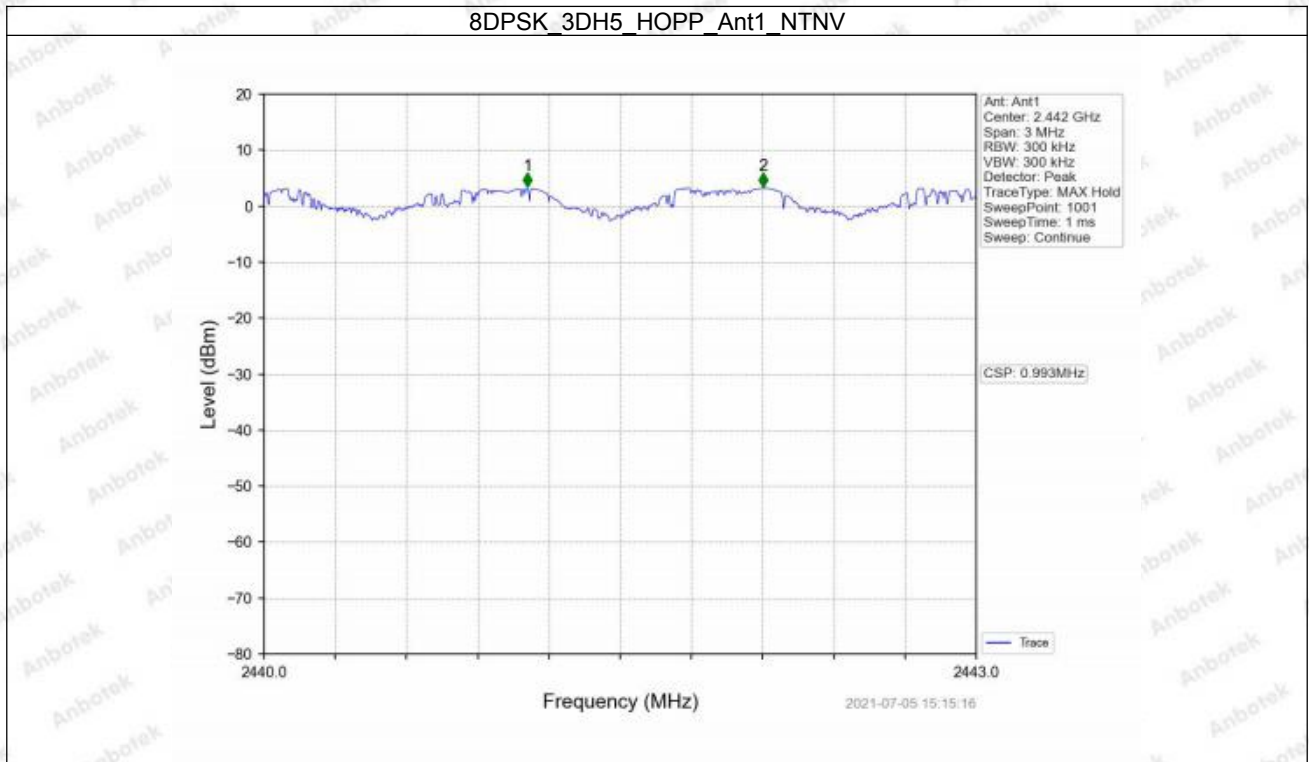
### 3.1 Ant1

#### 3.1.1 Test Result

Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
NTNV	GFSK	SISO	HOPP	DH5	1.01	0.97	>=0.966	Pass
	$\pi/4$ -DQPSK	SISO	HOPP	2DH5	1.00	1.26	>=0.841	Pass
	8DPSK	SISO	HOPP	3DH5	0.99	1.28	>=0.853	Pass

### 3.1.2 Test Graph





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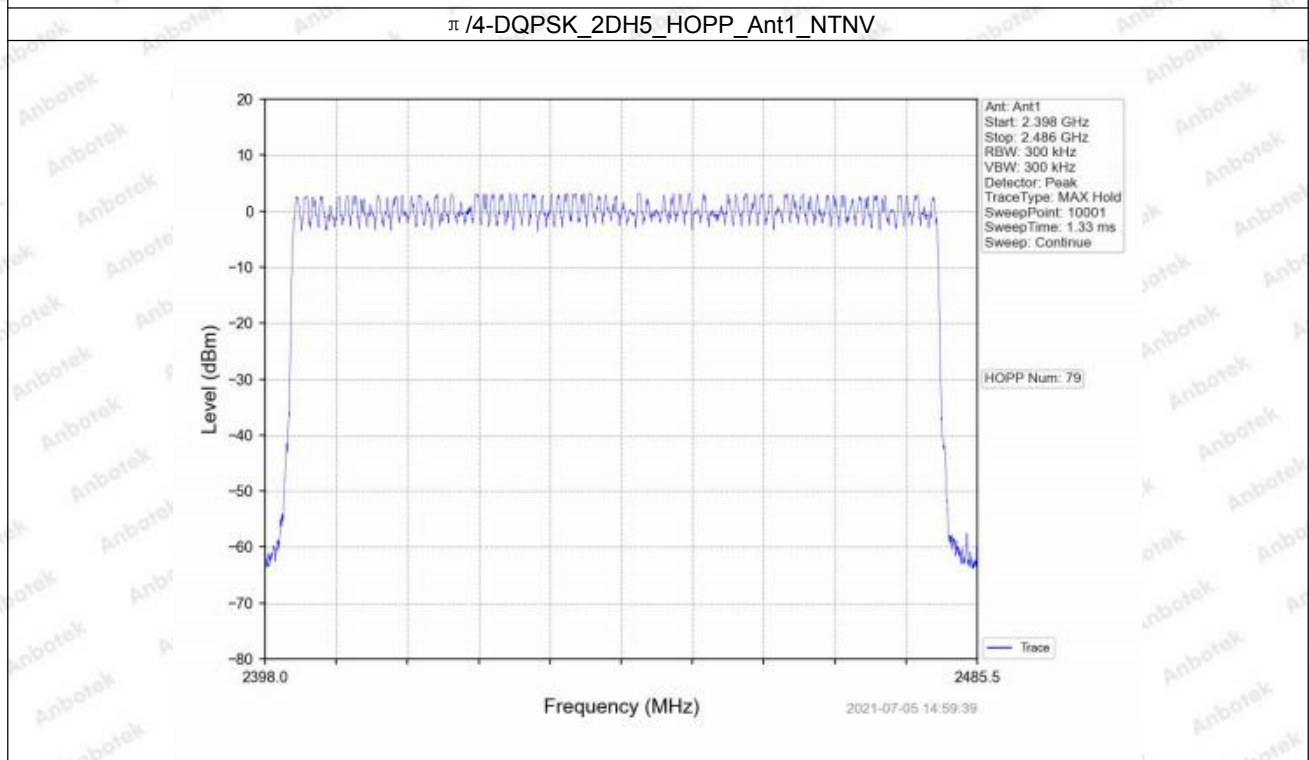
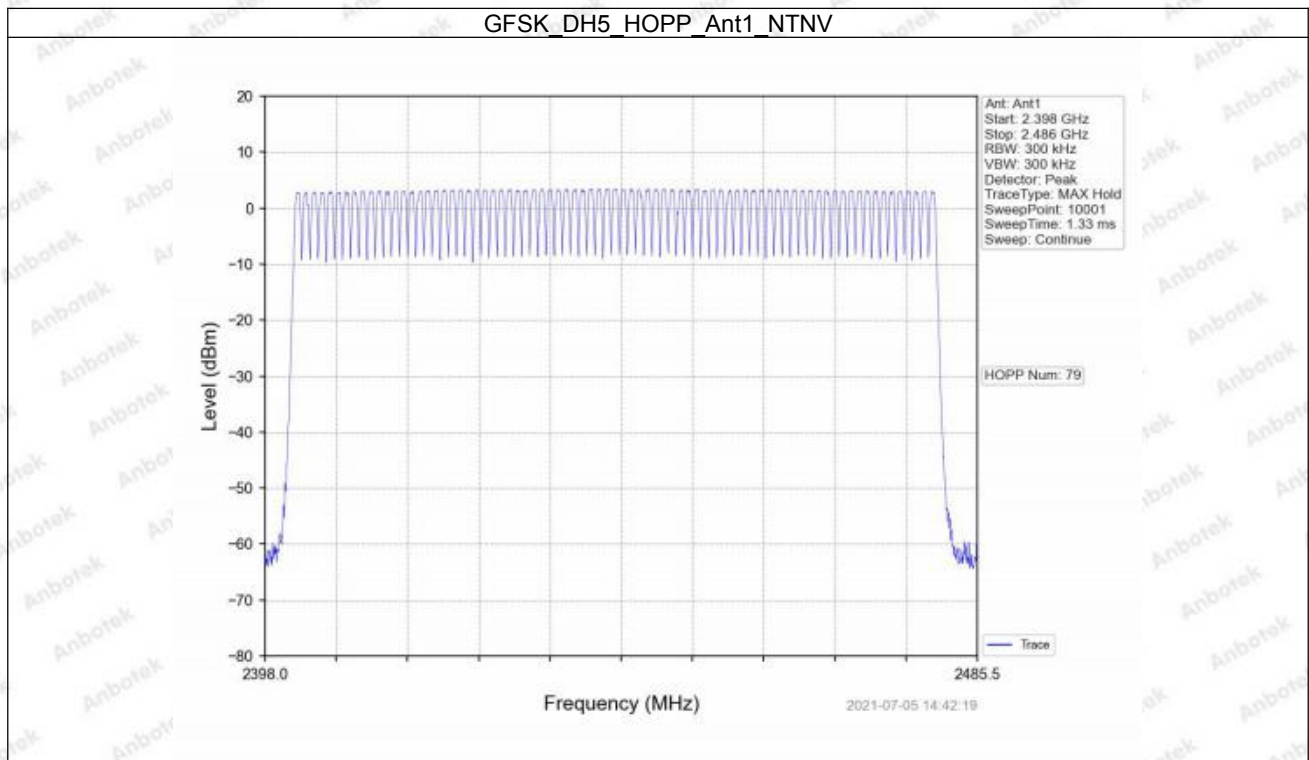
## 4. Number of Hopping Frequencies

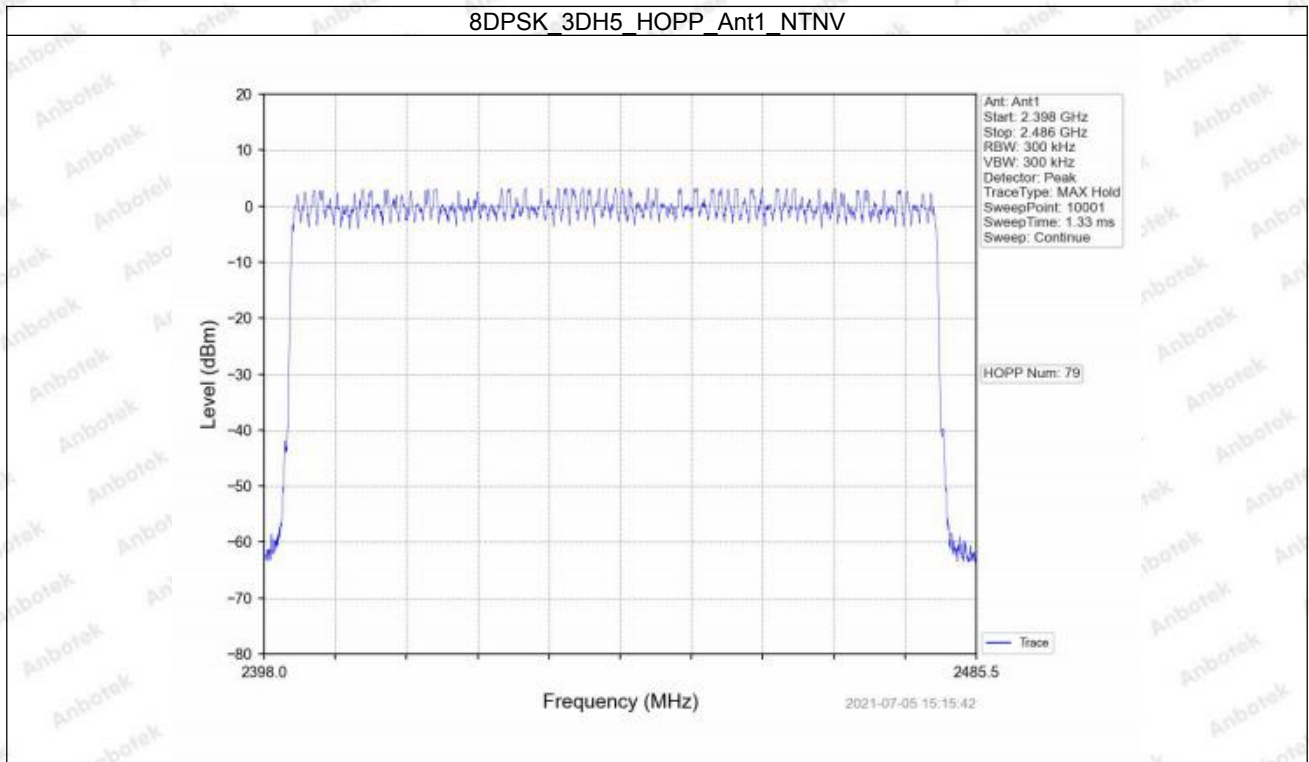
### 4.1 HopNum

#### 4.1.1 Test Result

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
					Ant1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	79	>=15	Pass
	$\pi/4$ -DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
	8DPSK	SISO	HOPP	3DH5	79	>=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

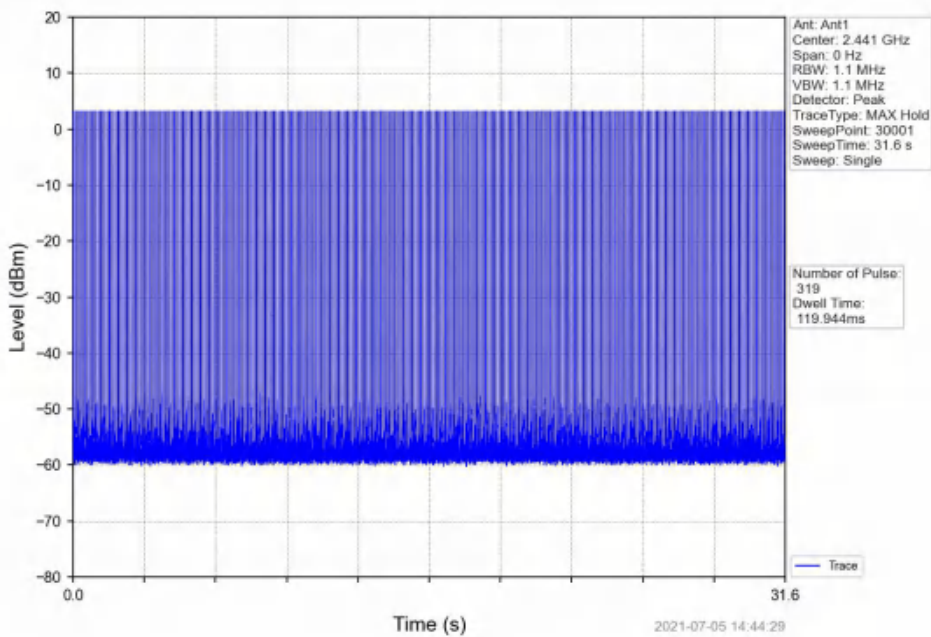
Ant1										
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
NTNV	GFSK	SISO	HOPP	DH1	0.396	31.60	319	126.32	<=400	Pass
				DH3	1.675	31.60	159	266.33	<=400	Pass
				DH5	2.936	31.60	106	311.22	<=400	Pass
	$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.406	31.60	319	129.51	<=400	Pass
				2DH3	1.655	31.60	159	263.15	<=400	Pass
				2DH5	2.928	31.60	106	310.37	<=400	Pass
	8DPSK	SISO	HOPP	3DH1	0.402	31.60	319	128.24	<=400	Pass
				3DH3	1.660	31.60	159	263.94	<=400	Pass
				3DH5	2.928	31.60	106	310.37	<=400	Pass

5.1.2 Test Graph

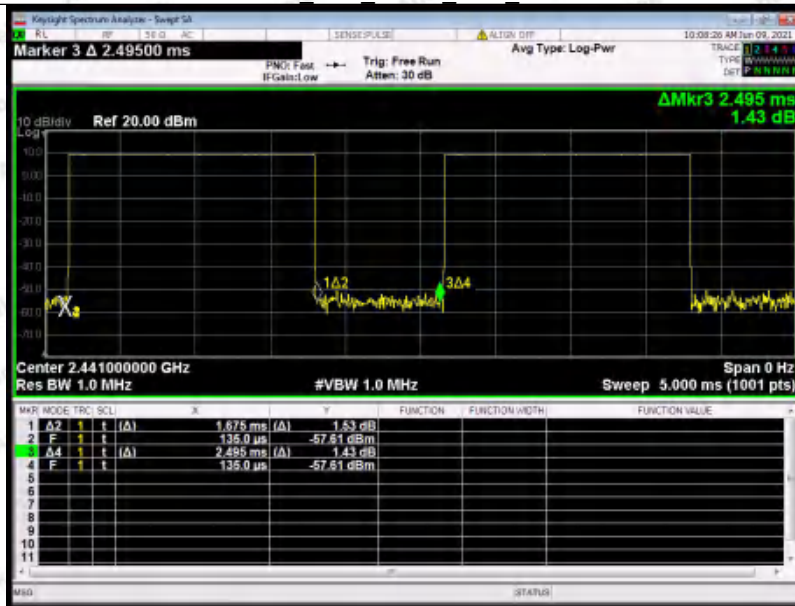
GFSK DH1\_HOPP\_Ant1\_NTNV



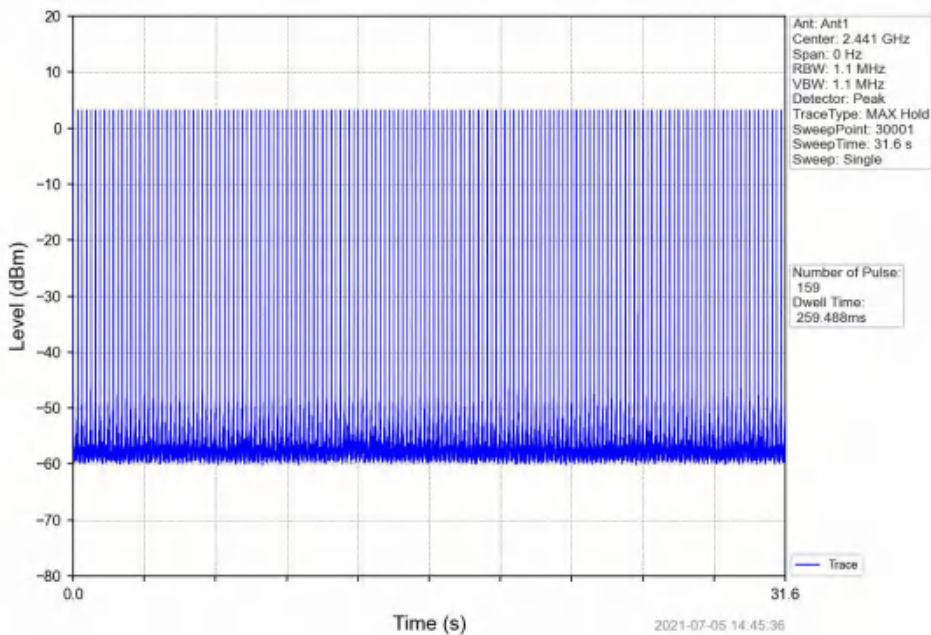
GFSK DH1\_HOPP\_Ant1\_NTNV



GFSK DH3\_HOPP\_Ant1\_NTNV



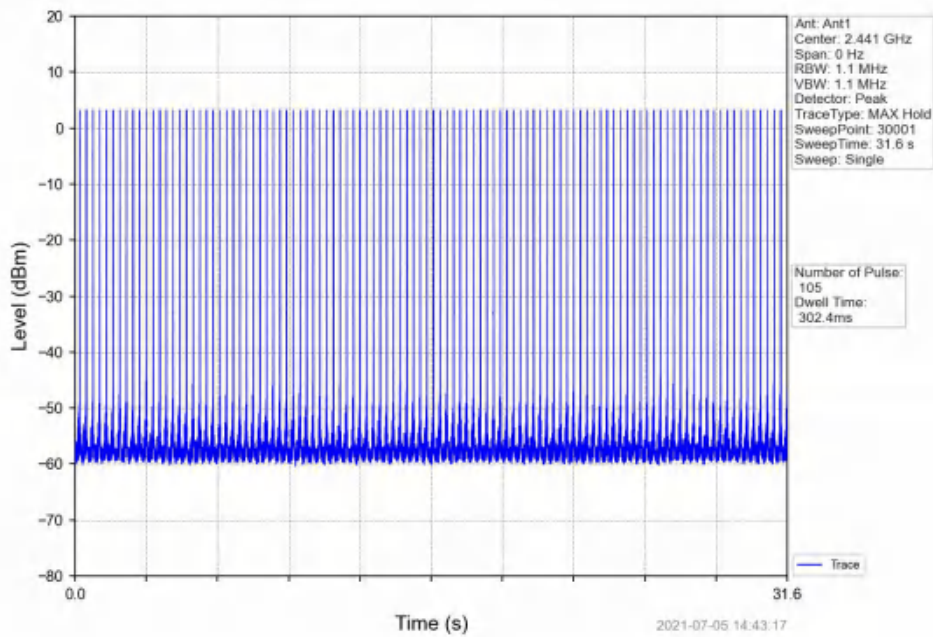
GFSK DH3\_HOPP\_Ant1\_NTNV



GFSK DH5\_HOPP\_Ant1\_NTNV



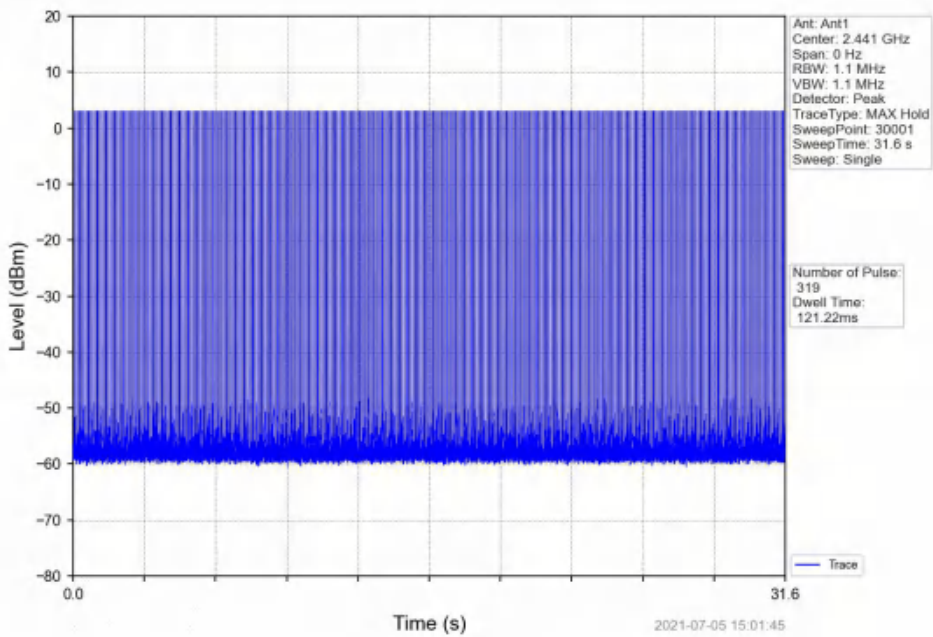
GFSK DH5\_HOPP\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



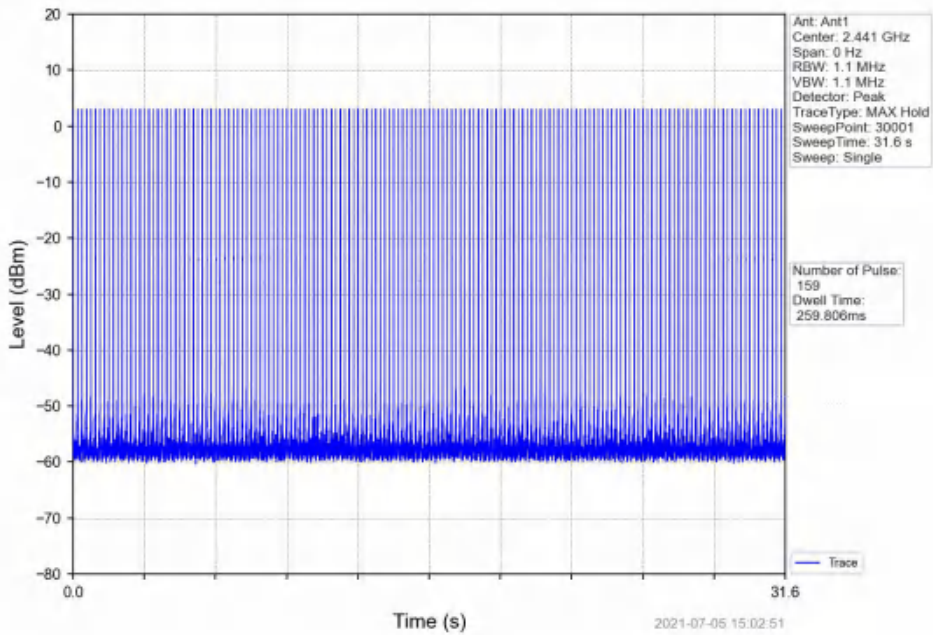
$\pi$  /4-DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



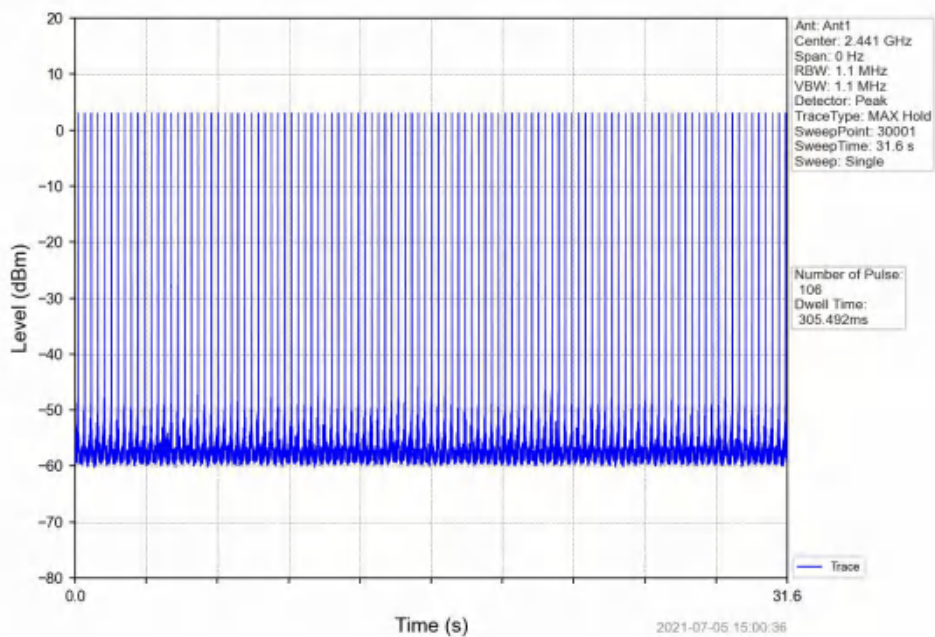
$\pi$  /4-DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



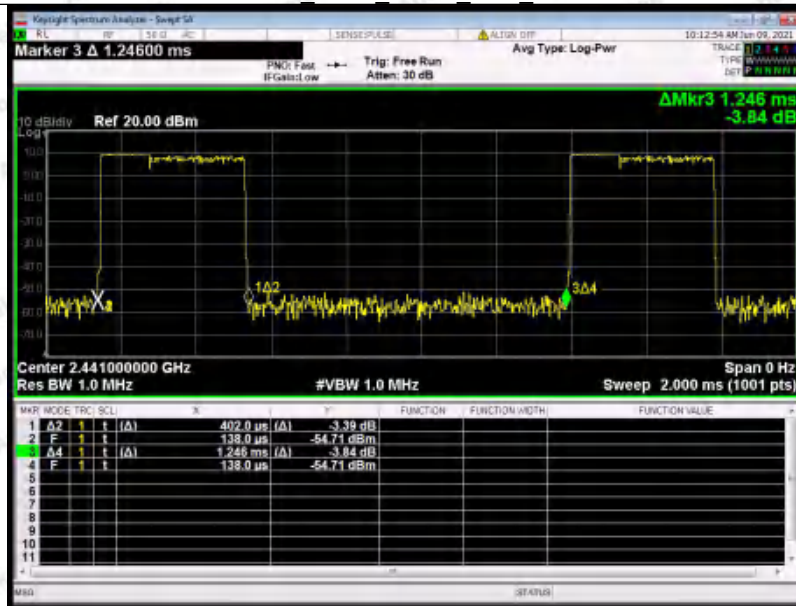
$\pi$  /4-DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



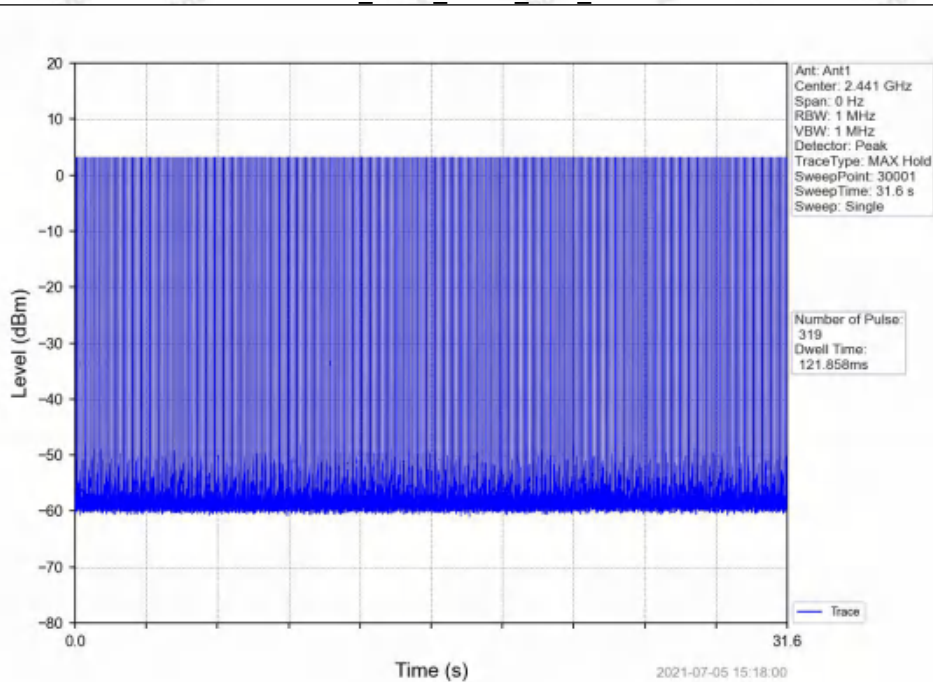
$\pi$  /4-DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



### 8DPSK 3DH1\_HOPP\_Ant1\_NTNV

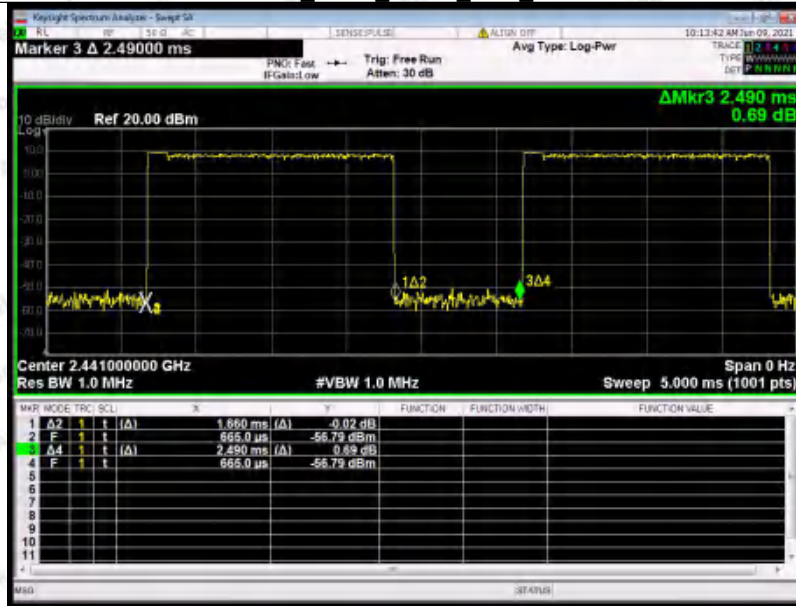


### 8DPSK 3DH1\_HOPP\_Ant1\_NTNV

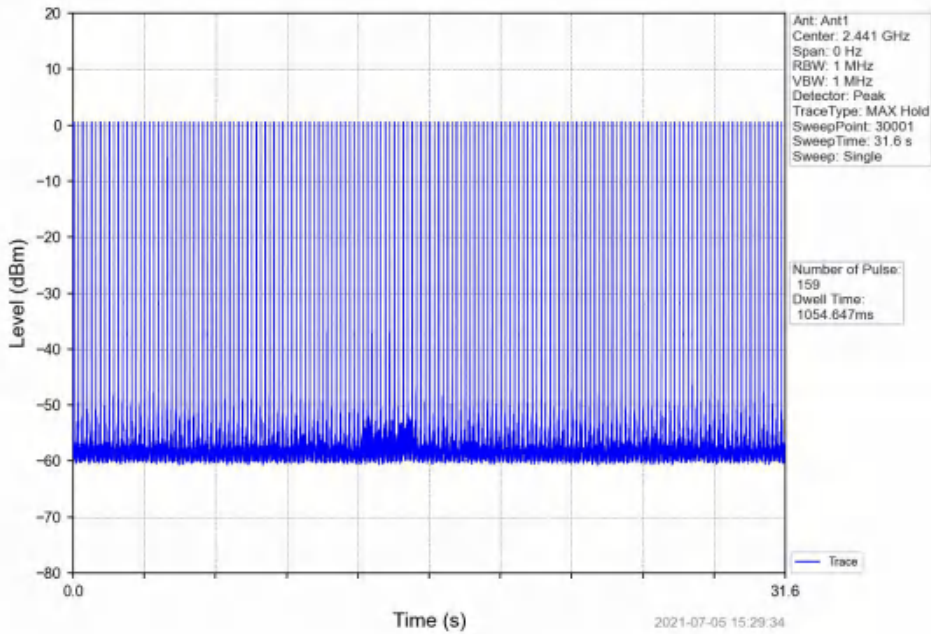




### 8DPSK 3DH3 HOPP Ant1 NTN



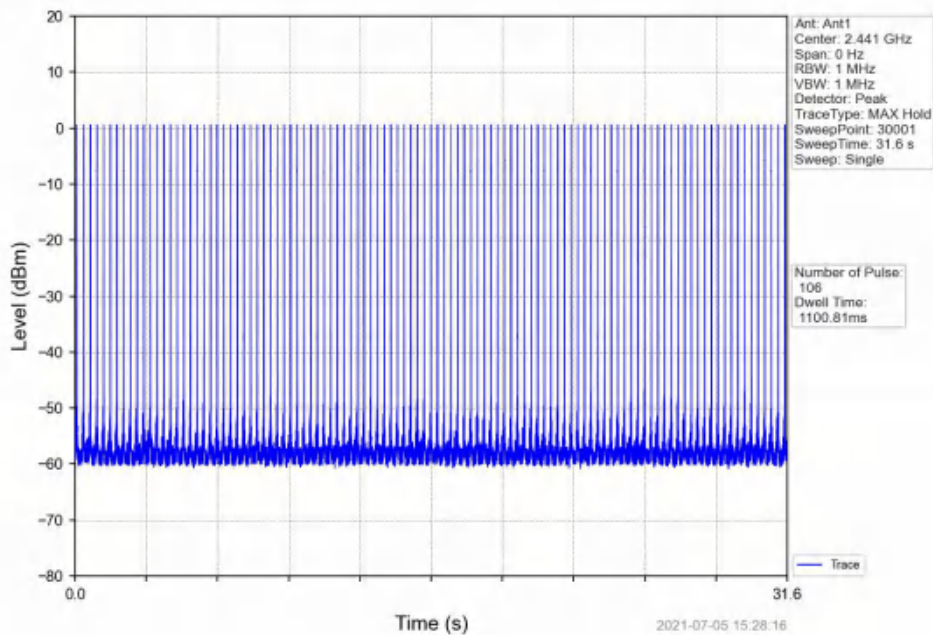
### 8DPSK 3DH3 HOPP Ant1 NTN



8DPSK 3DH5\_HOPP\_Ant1\_NTNV



8DPSK 3DH5\_HOPP\_Ant1\_NTNV



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

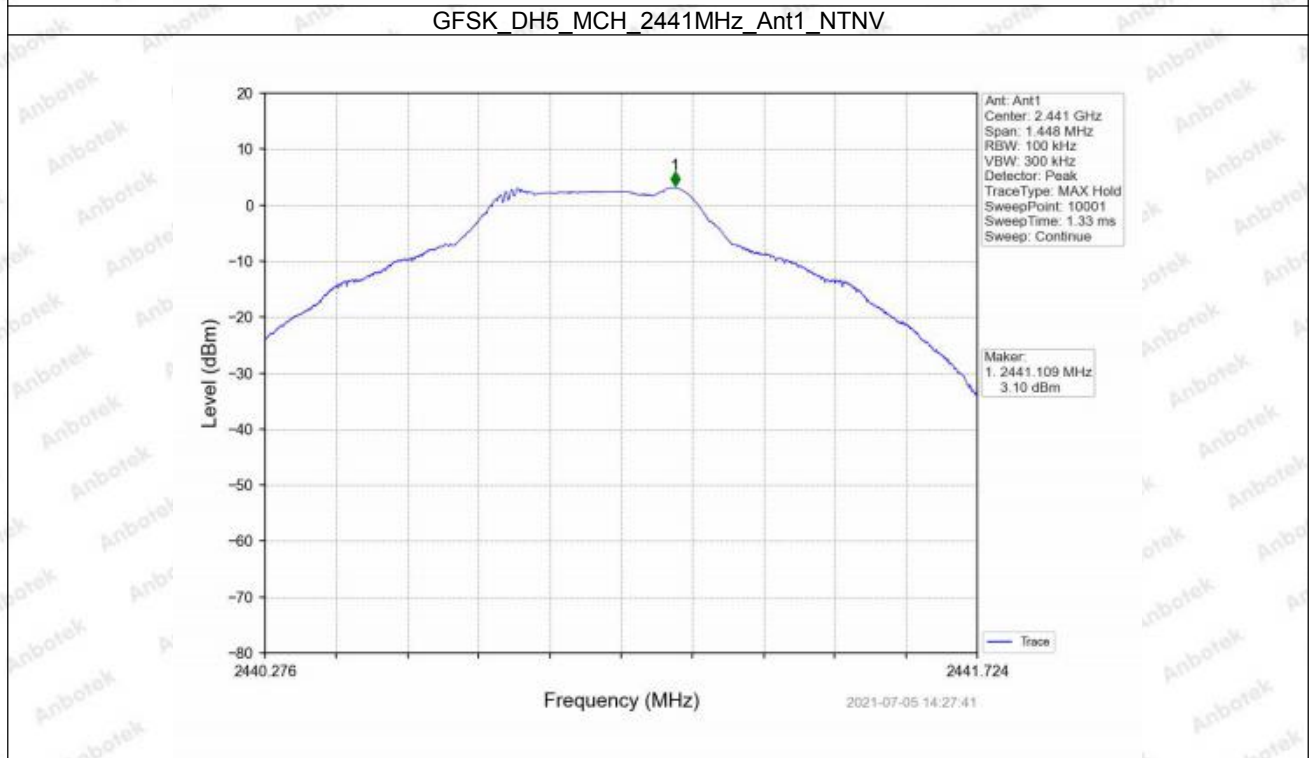
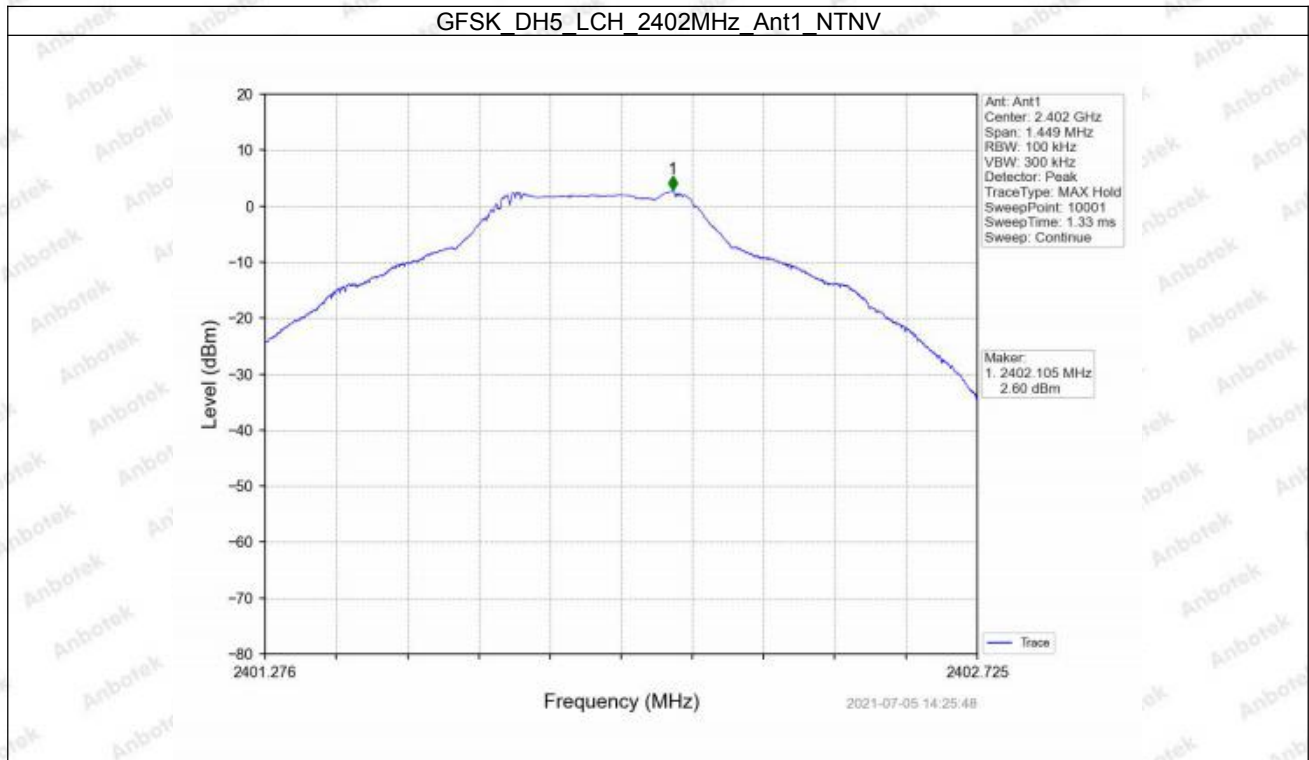
### 6.1 Ref

#### 6.1.1 Test Result

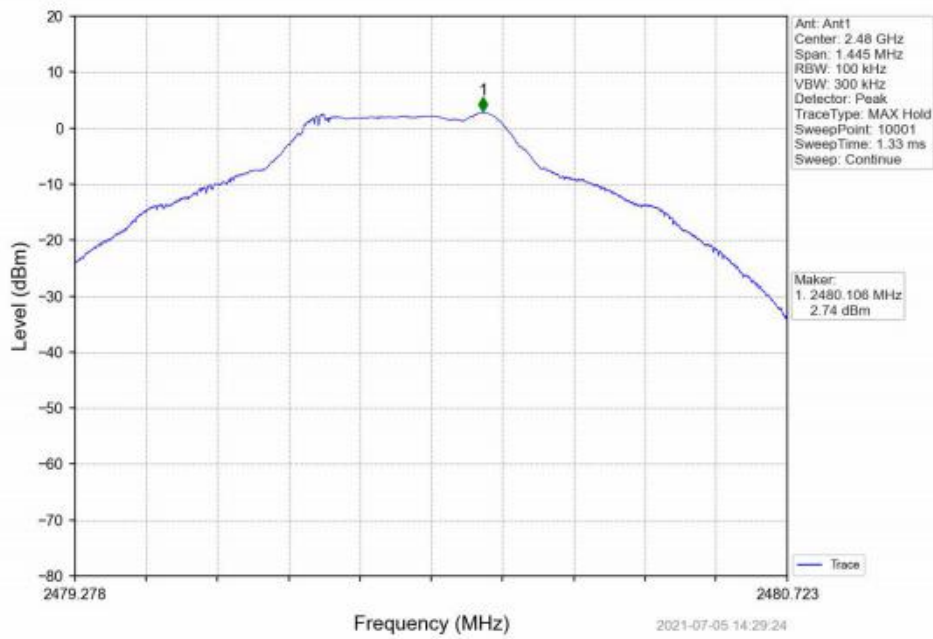
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
NTNV	GFSK	SISO	2402	DH5	1	2.60
			2441	DH5	1	3.10
			2480	DH5	1	2.74
	$\pi/4$ -DQPSK	SISO	2402	2DH5	1	2.60
			2441	2DH5	1	3.09
			2480	2DH5	1	2.73
	8DPSK	SISO	2402	3DH5	1	2.47
			2441	3DH5	1	2.94
			2480	3DH5	1	2.68

Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

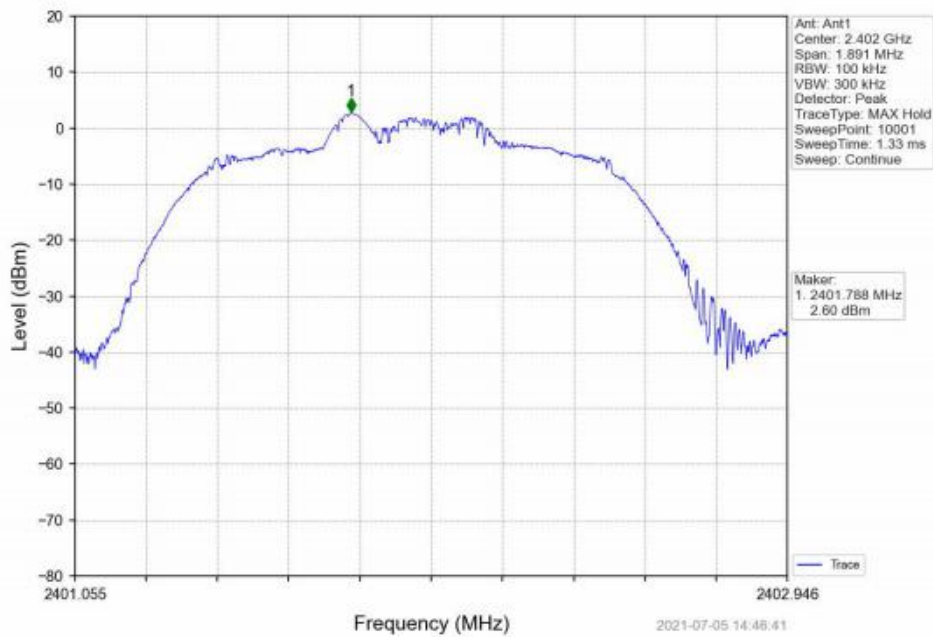
6.1.2 Test Graph



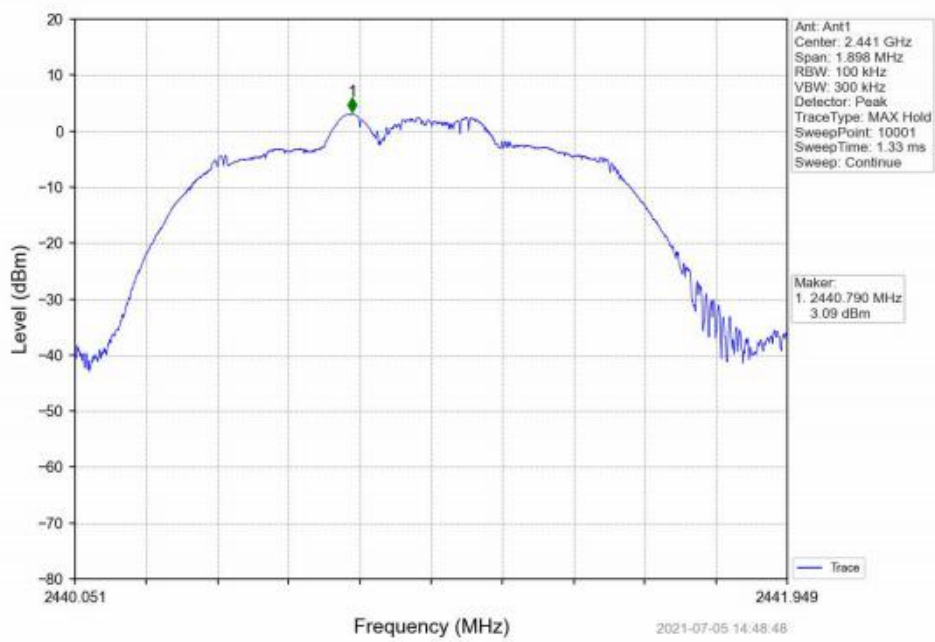
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



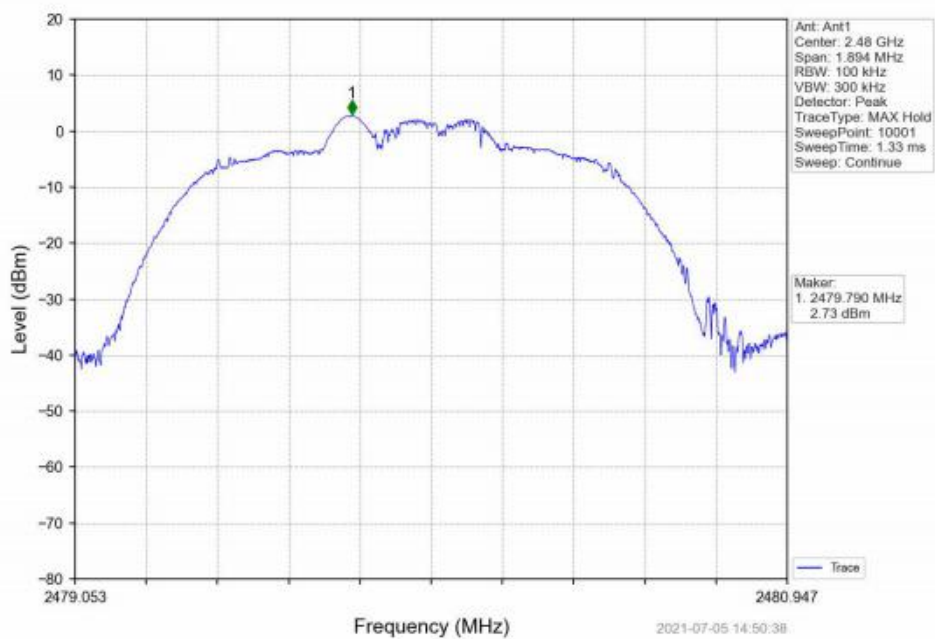
$\pi$ /4-QPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

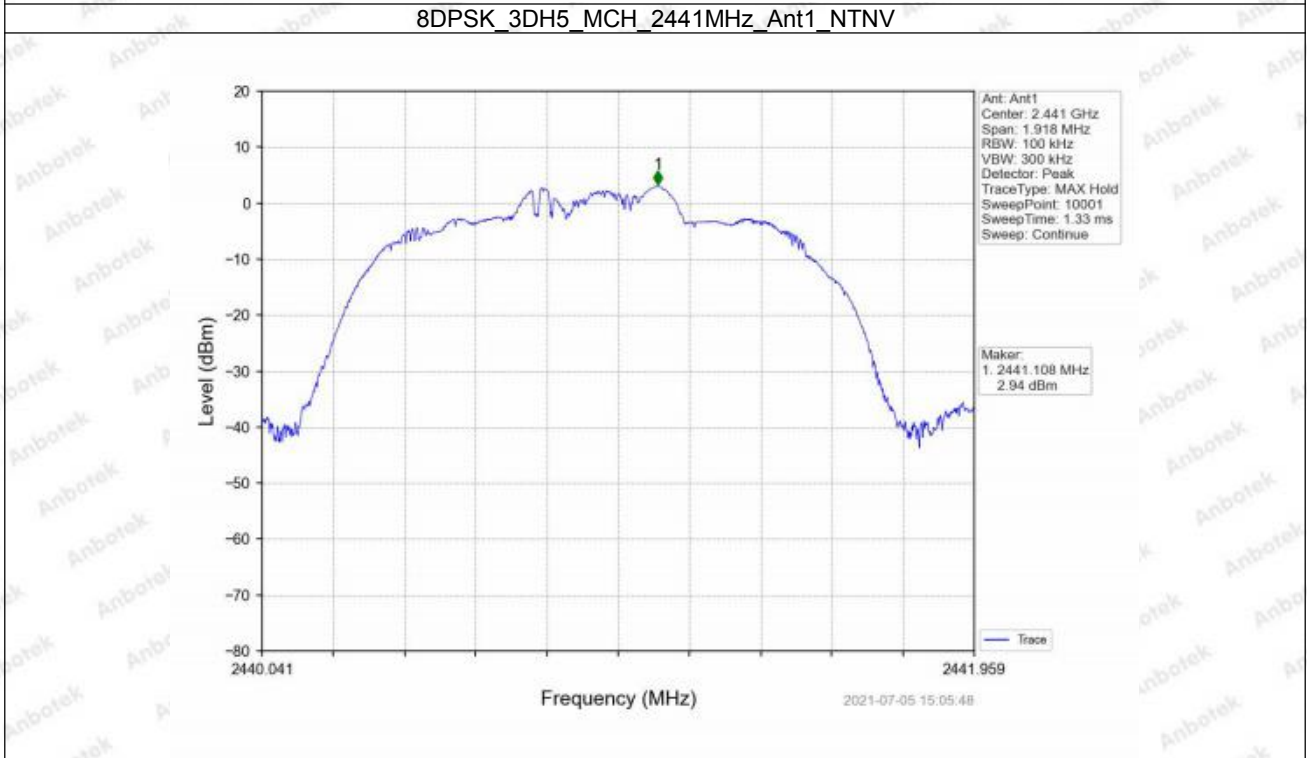
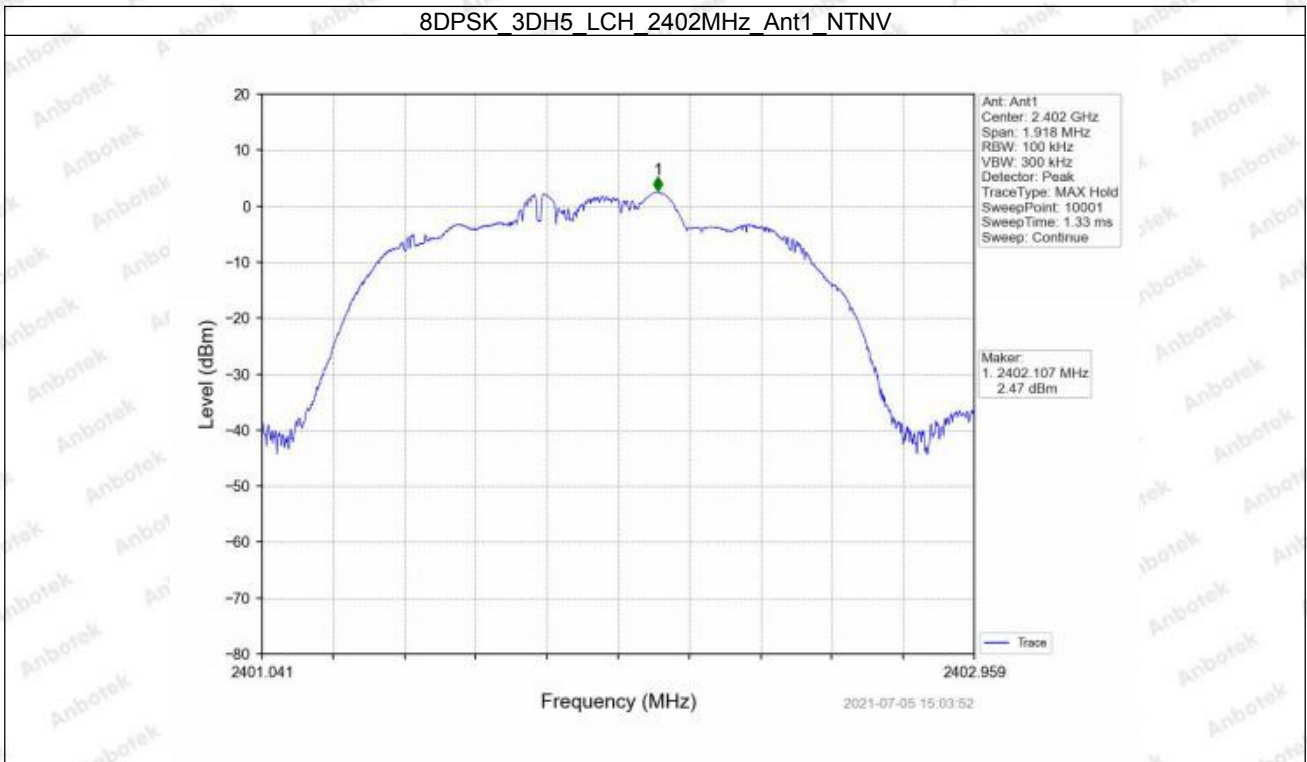


$\pi$  /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

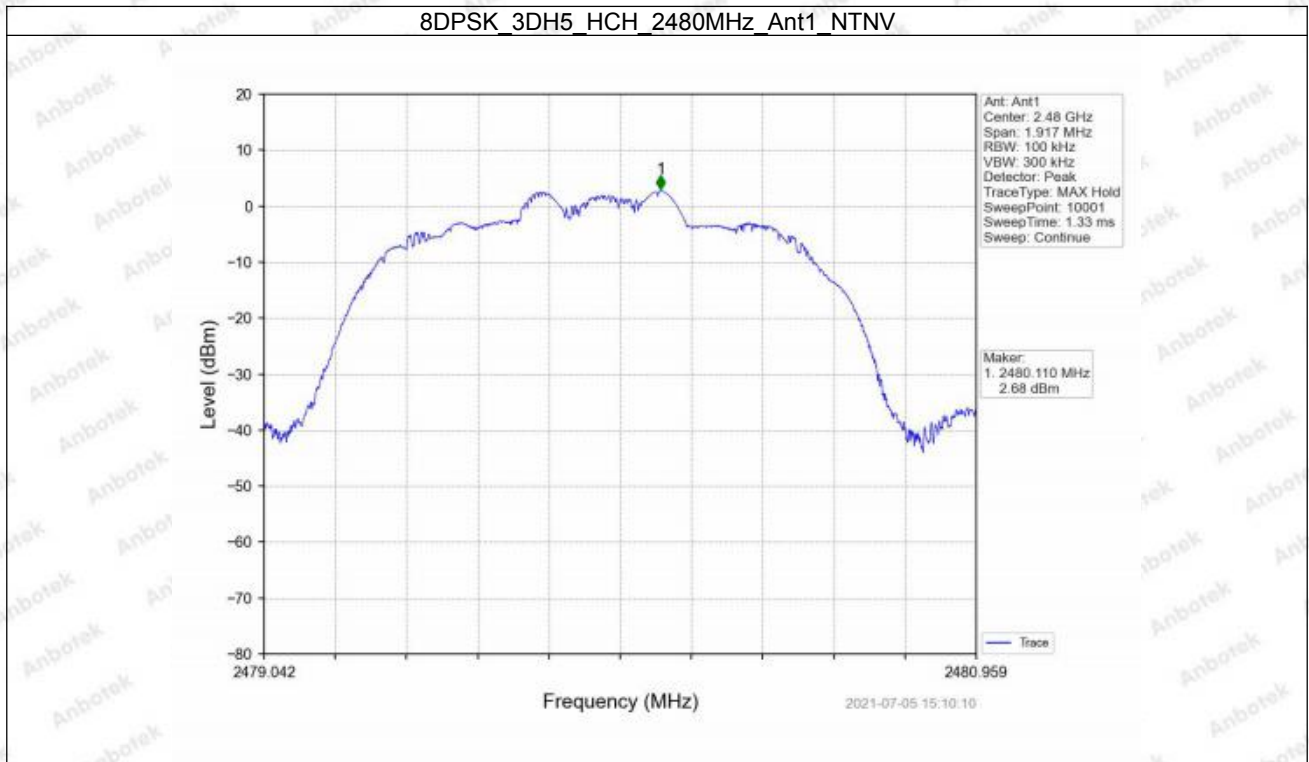




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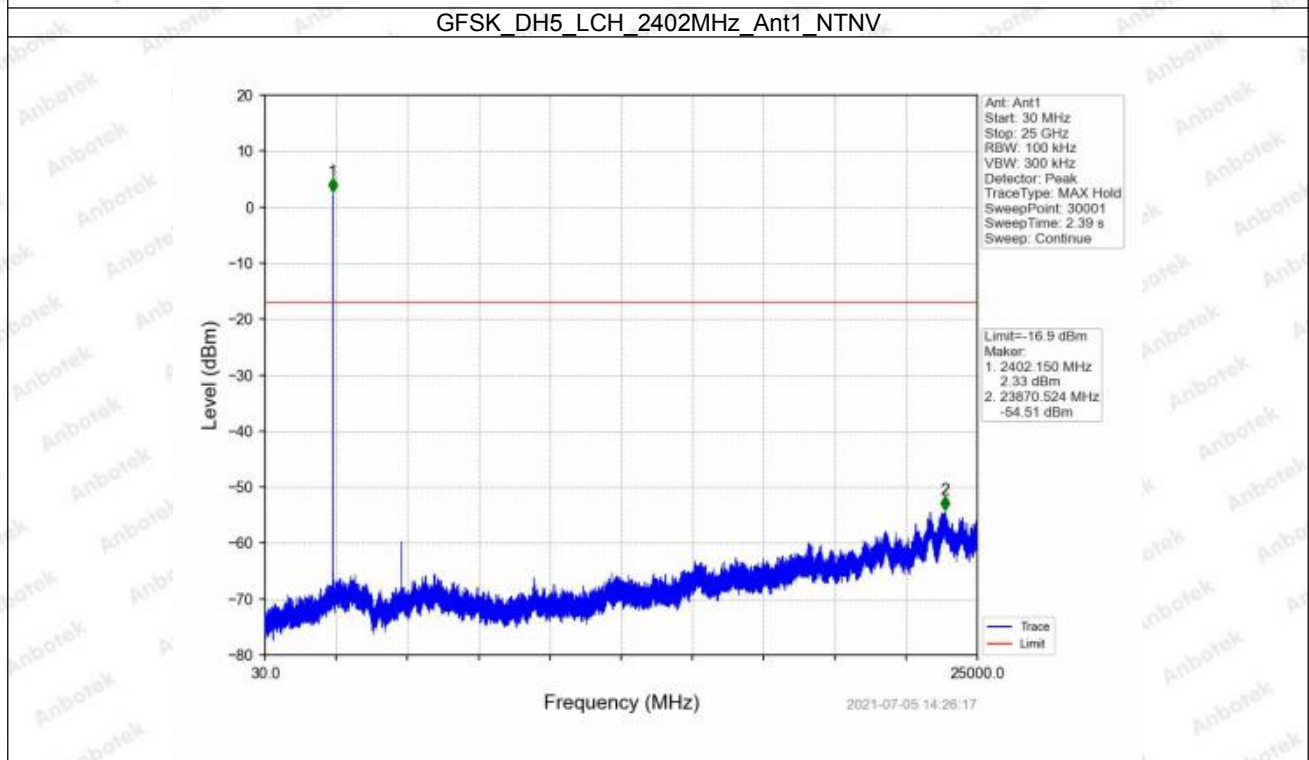
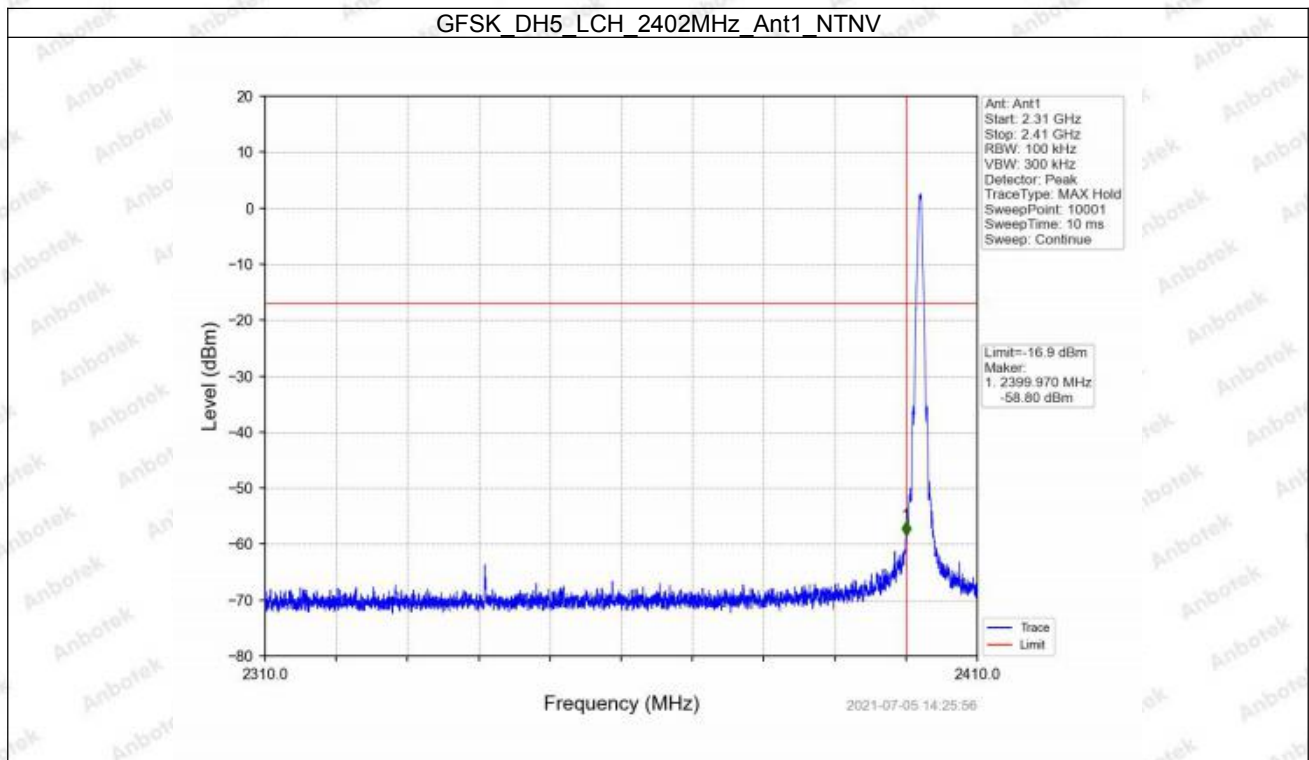
## 6.2 CSE

### 6.2.1 Test Result

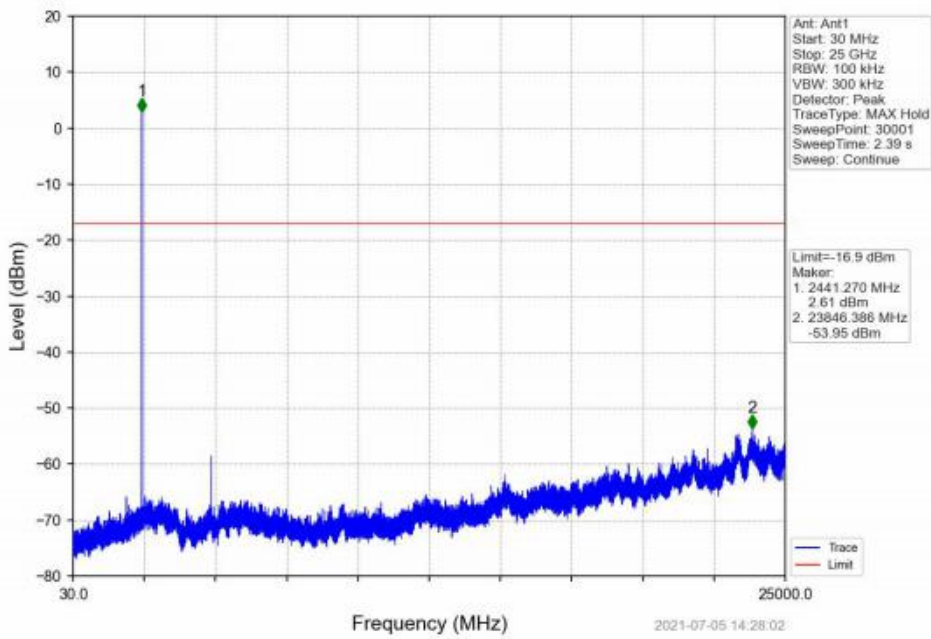
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
NTNV	GFSK	SISO	2402	DH5	1	3.10	-16.90	Pass
			2441	DH5	1	3.10	-16.90	Pass
			2480	DH5	1	3.10	-16.90	Pass
			HOPP	DH5	1	3.10	-16.90	Pass
	$\pi/4$ -DQPSK	SISO	2402	2DH5	1	3.09	-16.91	Pass
			2441	2DH5	1	3.09	-16.91	Pass
			2480	2DH5	1	3.09	-16.91	Pass
			HOPP	2DH5	1	3.09	-16.91	Pass
	8DPSK	SISO	2402	3DH5	1	2.94	-17.06	Pass
			2441	3DH5	1	2.94	-17.06	Pass
			2480	3DH5	1	2.94	-17.06	Pass
			HOPP	3DH5	1	2.94	-17.06	Pass

Note1: Refer to RSS-247 Issue 2 section 5.5 and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

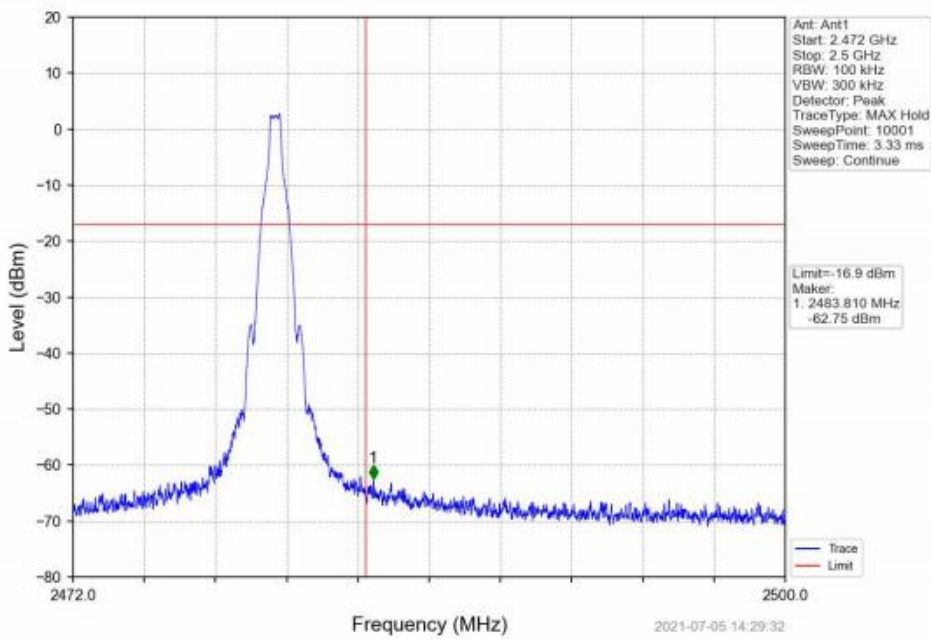
### 6.2.2 Test Graph



GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



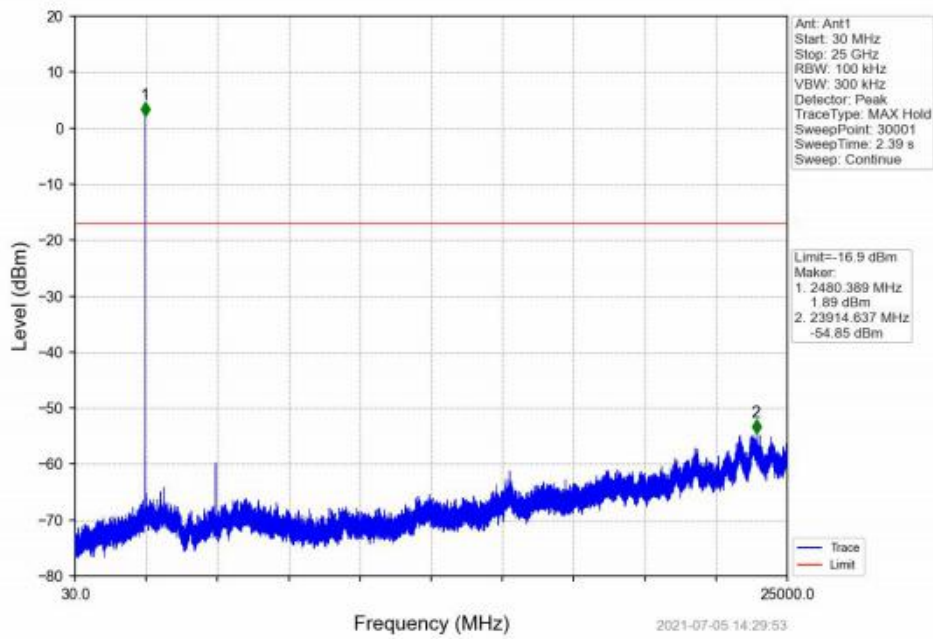
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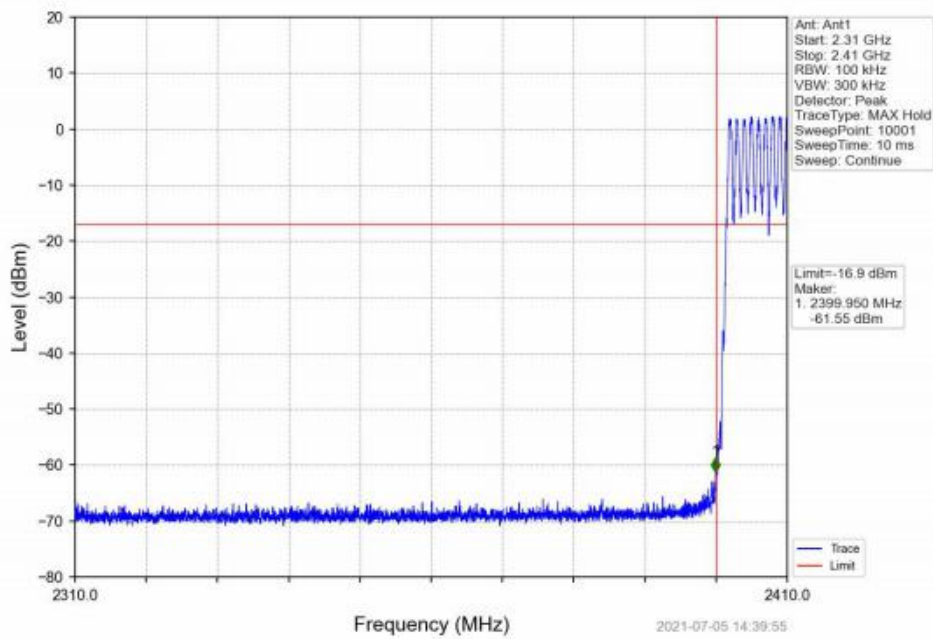
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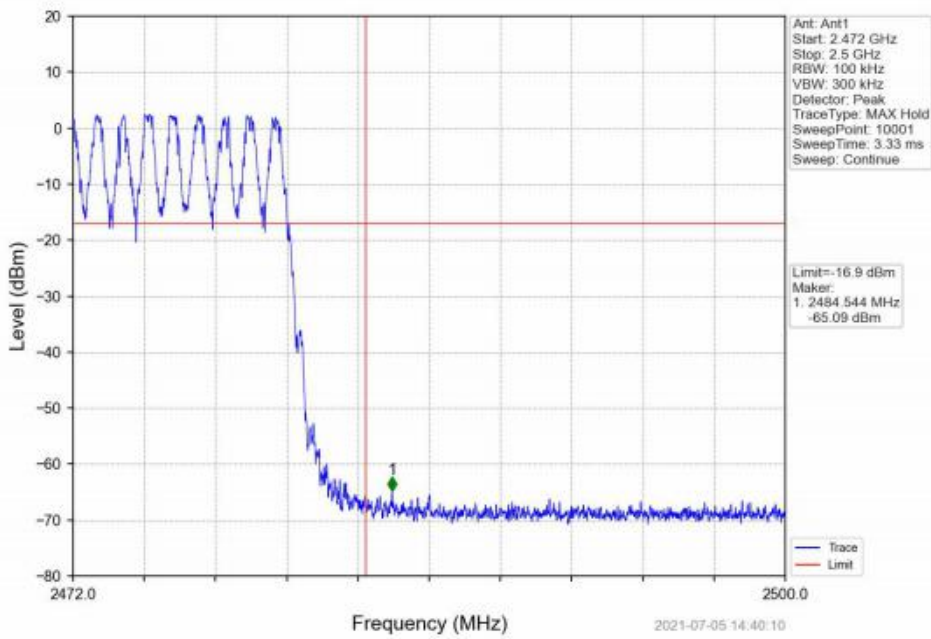
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



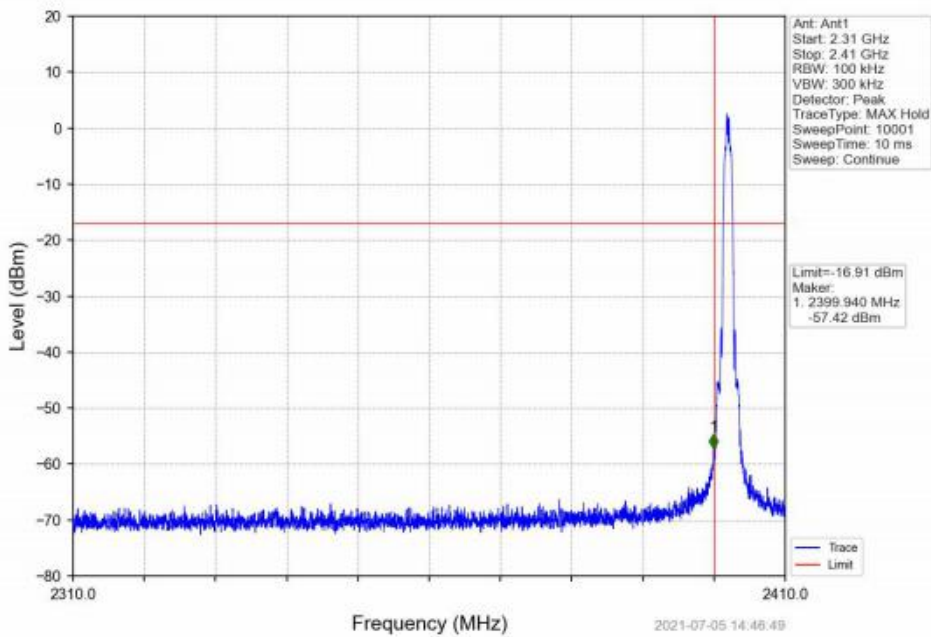
GFSK\_DH5\_HOPP\_2410MHz\_Ant1\_NTNV



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



### $\pi$ /4-DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



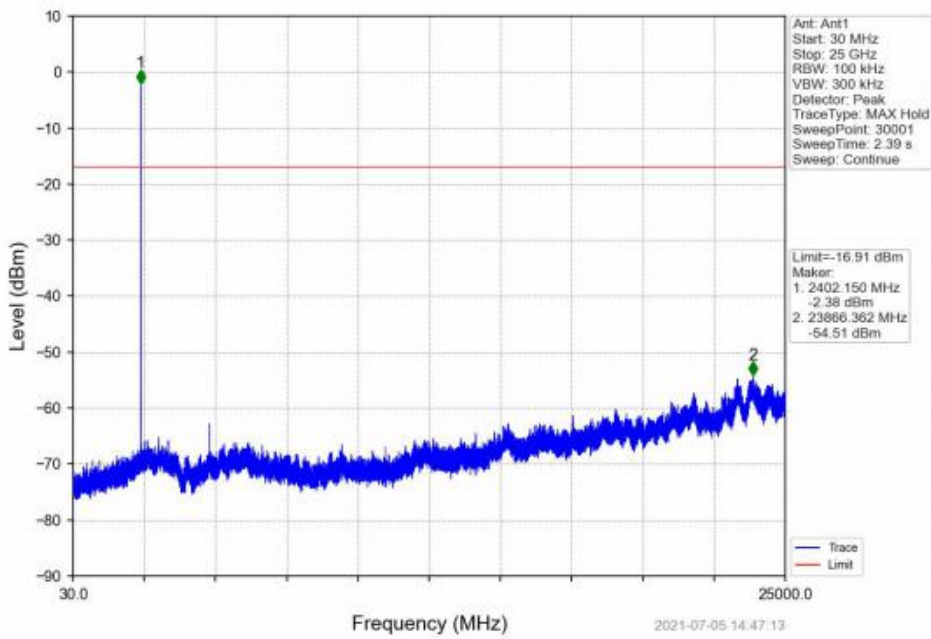
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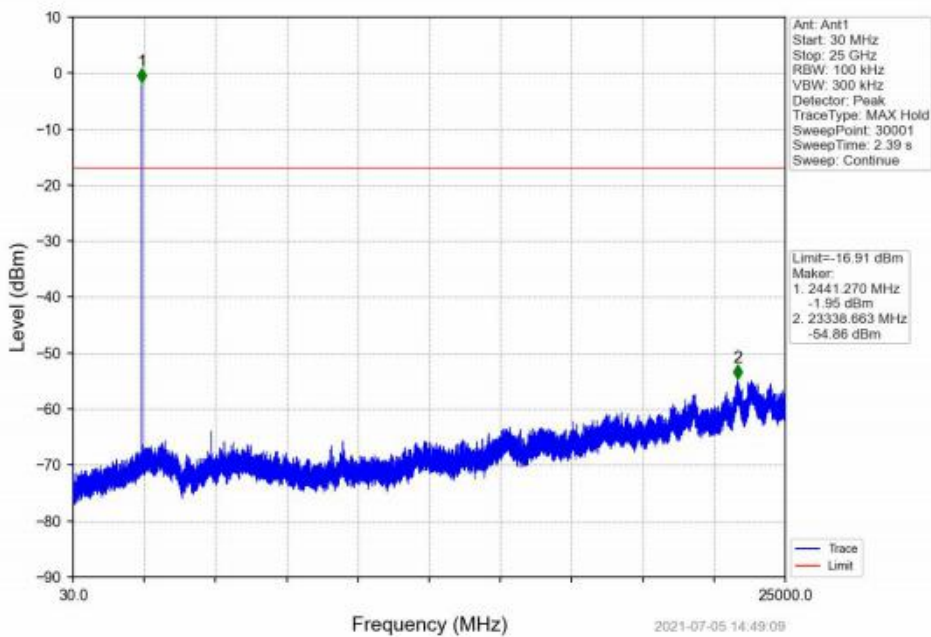
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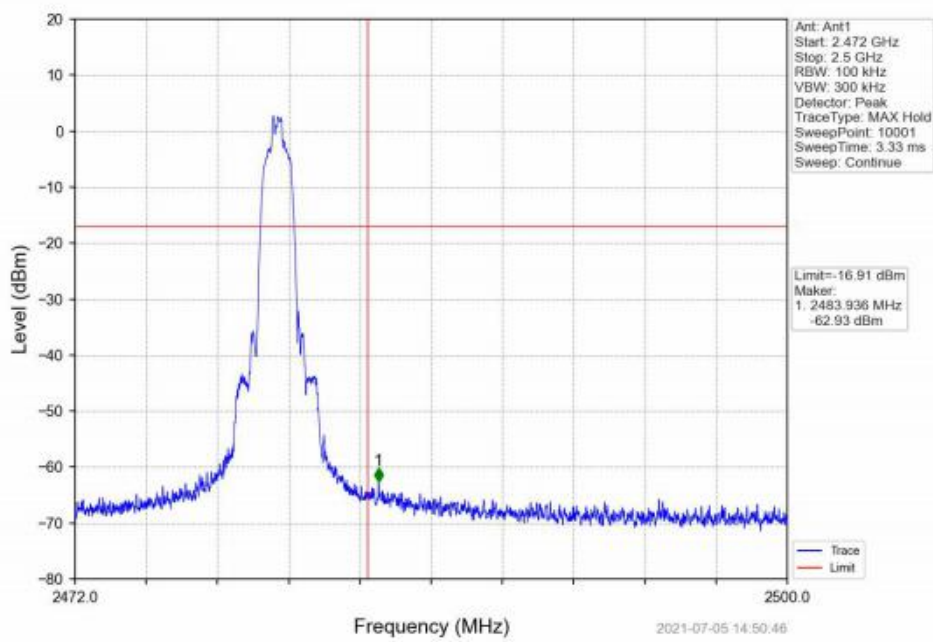
$\pi$  /4-DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



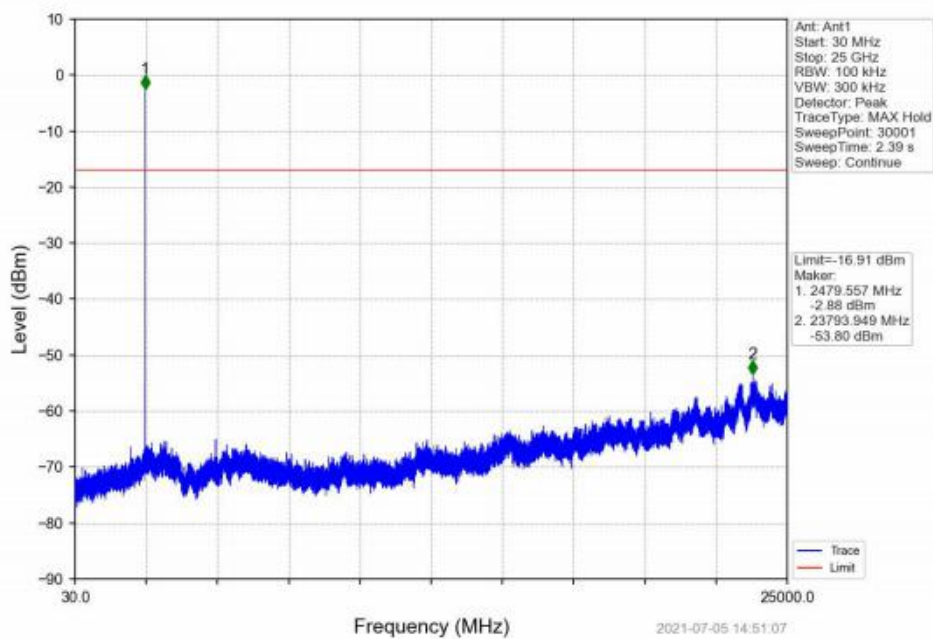
$\pi$  /4-DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



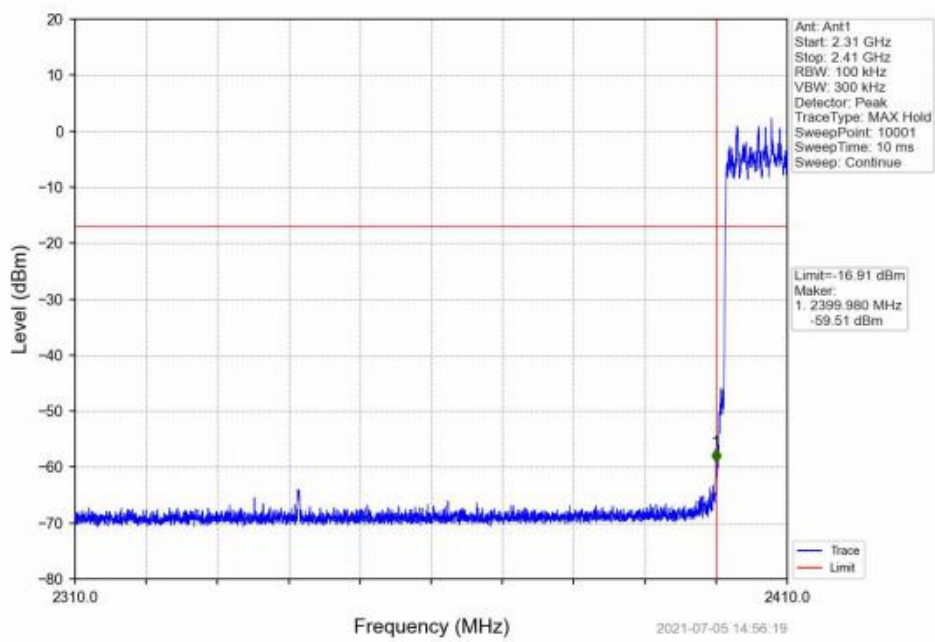
$\pi$  /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



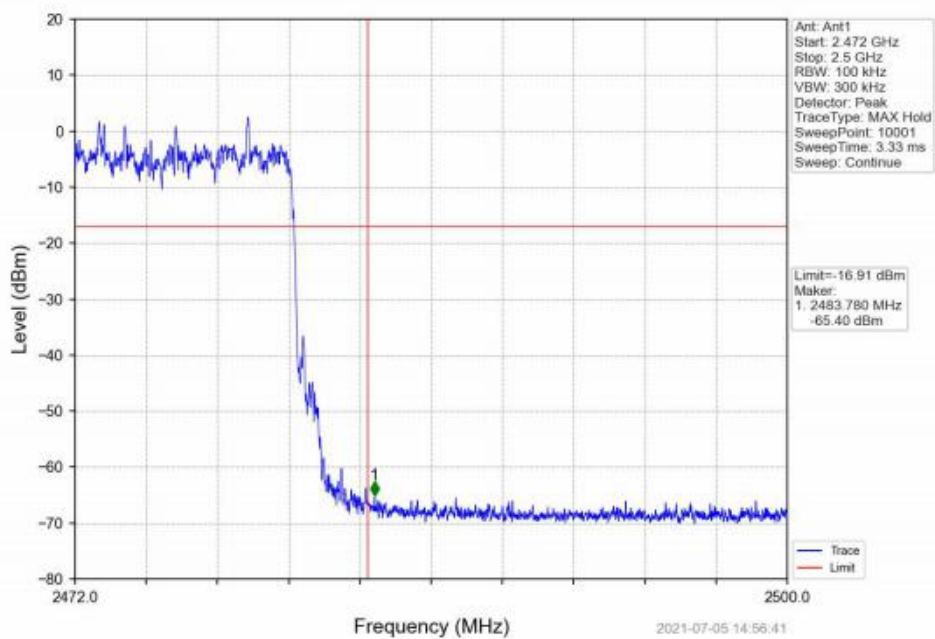
$\pi$  /4-DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



$\pi$  /4-DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

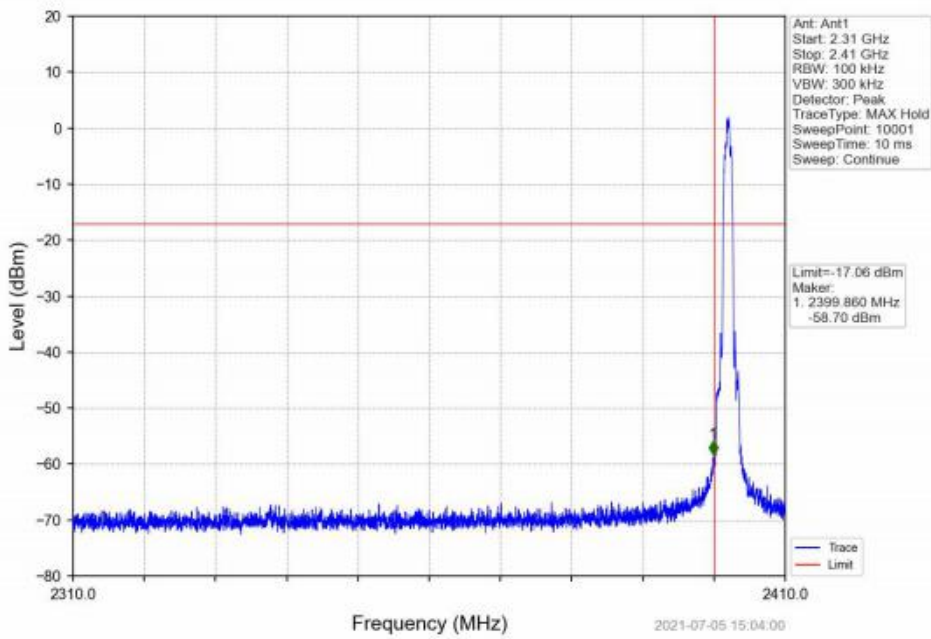


$\pi$  /4-DQPSK\_2DH5\_HOPP\_Ant1\_NTNV

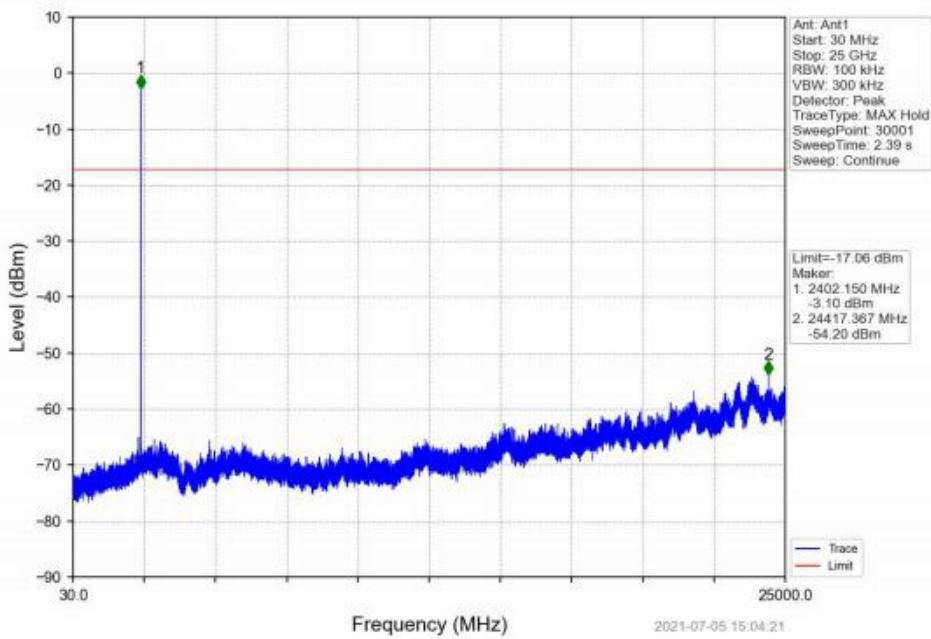




8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



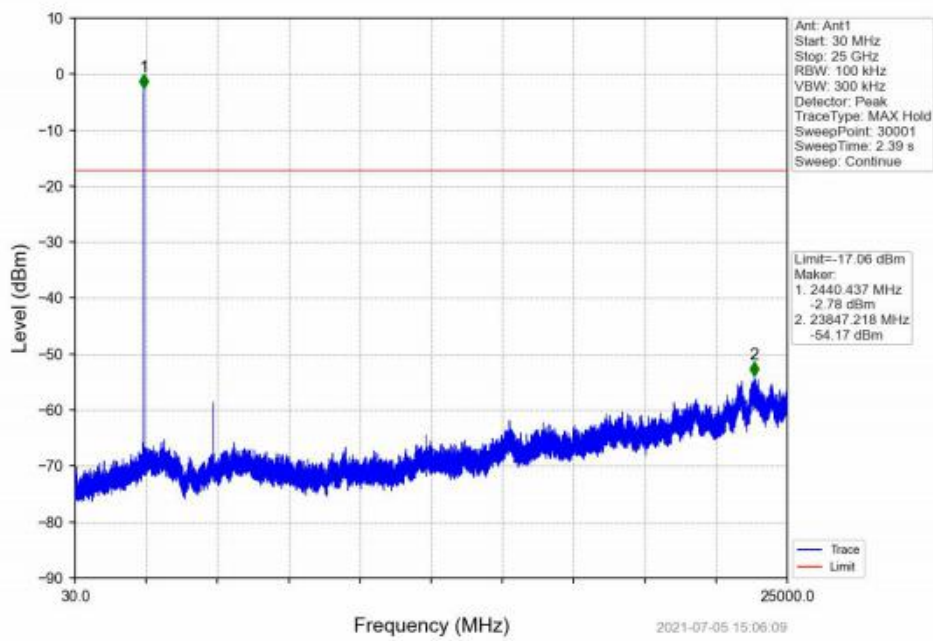
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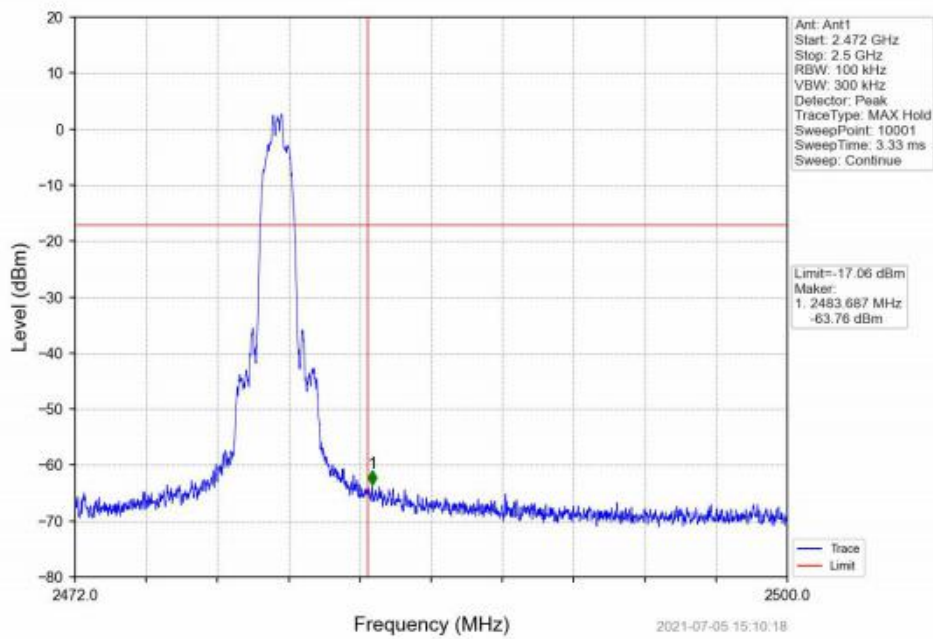
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8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



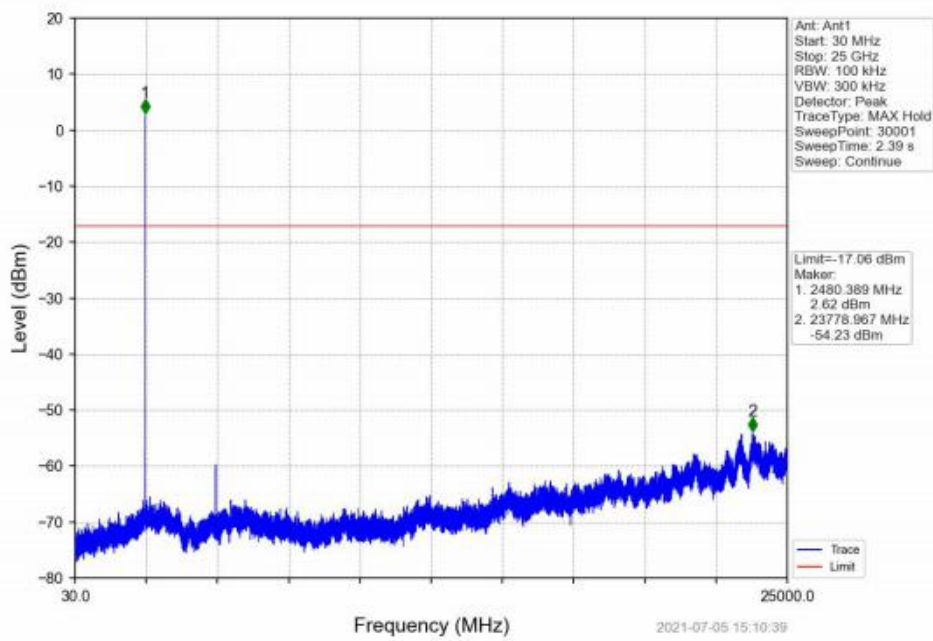
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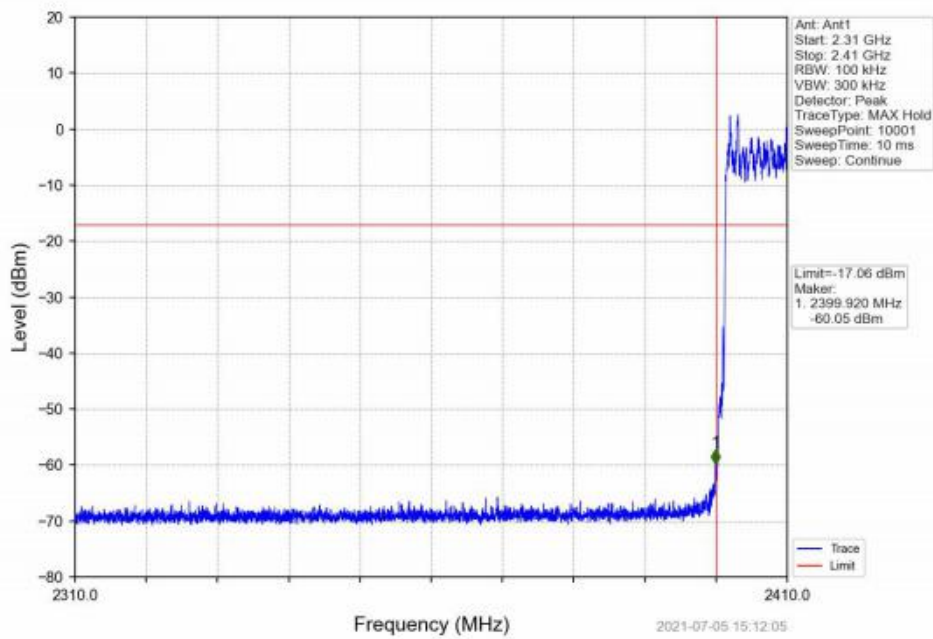
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

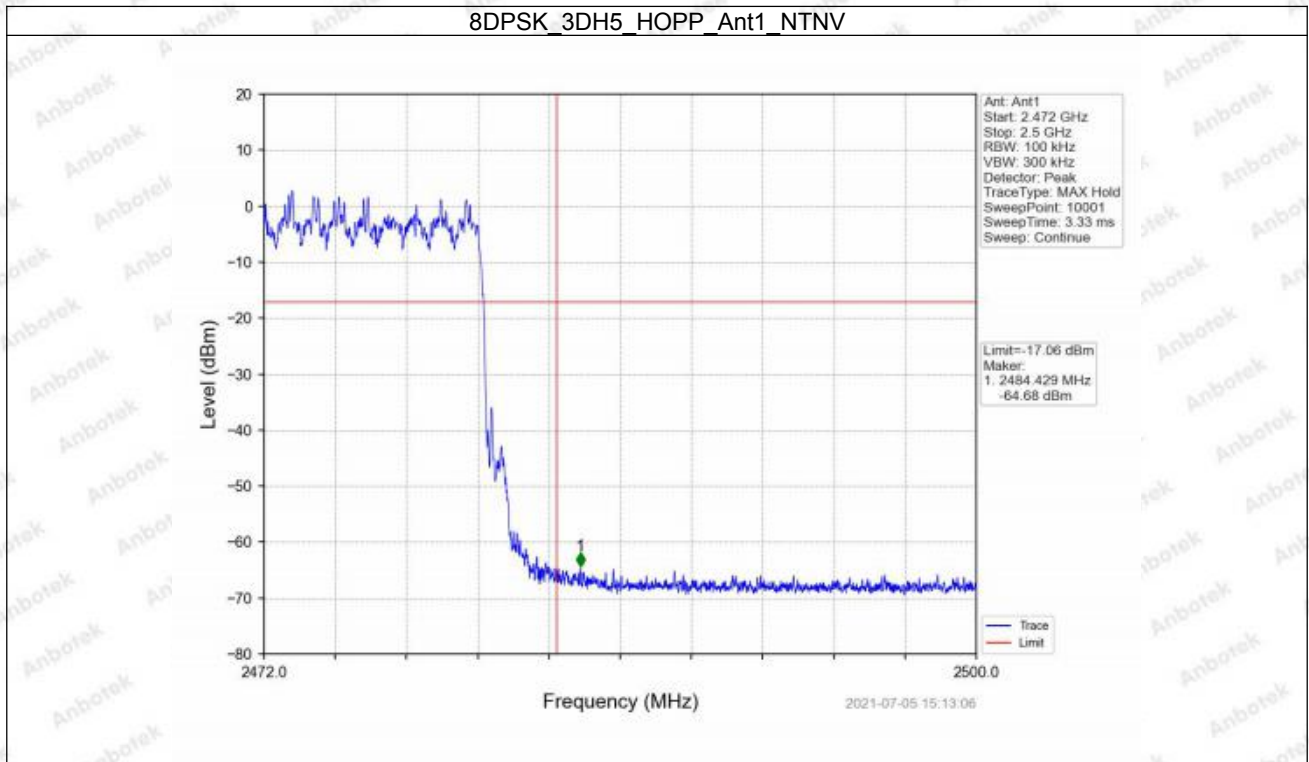
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8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV





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## 7. Frequency Error

### 7.1 Ant1

#### 7.1.1 Test Result

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict	
NTNV	GFSK	SISO	2402	DH5	20	102	2401.945	2401.6 to 2402.4	Pass	
						120	2401.945	2401.6 to 2402.4	Pass	
						138	2401.945	2401.6 to 2402.4	Pass	
					-20	120	2401.945	2401.6 to 2402.4	Pass	
						50	120	2401.945	2401.6 to 2402.4	Pass
							120	2401.945	2401.6 to 2402.4	Pass
			2441	DH5	20	102	2440.942	2440.6 to 2441.4	Pass	
						120	2440.946	2440.6 to 2441.4	Pass	
						138	2440.943	2440.6 to 2441.4	Pass	
					-20	120	2440.945	2440.6 to 2441.4	Pass	
						50	120	2440.945	2440.6 to 2441.4	Pass
							120	2440.945	2440.6 to 2441.4	Pass
	2480	DH5	20	102	2479.945	2479.6 to 2480.4	Pass			
				120	2479.945	2479.6 to 2480.4	Pass			
				138	2479.943	2479.6 to 2480.4	Pass			
			-20	120	2479.944	2479.6 to 2480.4	Pass			
				50	120	2479.945	2479.6 to 2480.4	Pass		
					120	2479.945	2479.6 to 2480.4	Pass		
	$\pi/4$ -DQPSK	SISO	2402	2DH5	20	102	2401.942	2401.52 to 2402.48	Pass	
						120	2401.948	2401.52 to 2402.48	Pass	
						138	2401.945	2401.52 to 2402.48	Pass	
					-20	120	2401.945	2401.52 to 2402.48	Pass	
						50	120	2401.946	2401.52 to 2402.48	Pass
							120	2401.946	2401.52 to 2402.48	Pass
			2441	2DH5	20	102	2440.947	2440.52 to 2441.48	Pass	
						120	2440.944	2440.52 to 2441.48	Pass	
						138	2440.946	2440.52 to 2441.48	Pass	
					-20	120	2440.940	2440.52 to 2441.48	Pass	
						50	120	2440.946	2440.52 to 2441.48	Pass
							120	2440.946	2440.52 to 2441.48	Pass
	2480	2DH5	20	102	2479.943	2479.52 to 2480.48	Pass			
				120	2479.944	2479.52 to 2480.48	Pass			
				138	2479.944	2479.52 to 2480.48	Pass			
			-20	120	2479.946	2479.52 to 2480.48	Pass			
				50	120	2479.940	2479.52 to 2480.48	Pass		
					120	2479.940	2479.52 to 2480.48	Pass		
8DPSK	SISO	2402	3DH5	20	102	2401.947	2401.52 to 2402.48	Pass		
					120	2401.946	2401.52 to 2402.48	Pass		
					138	2401.946	2401.52 to 2402.48	Pass		
				-20	120	2401.939	2401.52 to 2402.48	Pass		
					50	120	2401.946	2401.52 to 2402.48	Pass	
						120	2401.946	2401.52 to 2402.48	Pass	
		2441	3DH5	20	102	2440.943	2440.52 to 2441.48	Pass		
					120	2440.930	2440.52 to 2441.48	Pass		
					138	2440.941	2440.52 to 2441.48	Pass		
				-20	120	2440.946	2440.52 to 2441.48	Pass		
					50	120	2440.944	2440.52 to 2441.48	Pass	
						120	2440.944	2440.52 to 2441.48	Pass	
2480	3DH5	20	102	2479.947	2479.52 to 2480.48	Pass				
			120	2479.941	2479.52 to 2480.48	Pass				
			138	2479.944	2479.52 to 2480.48	Pass				
		-20	120	2479.940	2479.52 to 2480.48	Pass				
			50	120	2479.940	2479.52 to 2480.48	Pass			
				120	2479.946	2479.52 to 2480.48	Pass			

---End---