



## Annex for BT

Test Report No.: CTL2401102092-WF

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FCCID: 2AU4P-BTS081

## 1. Bandwidth

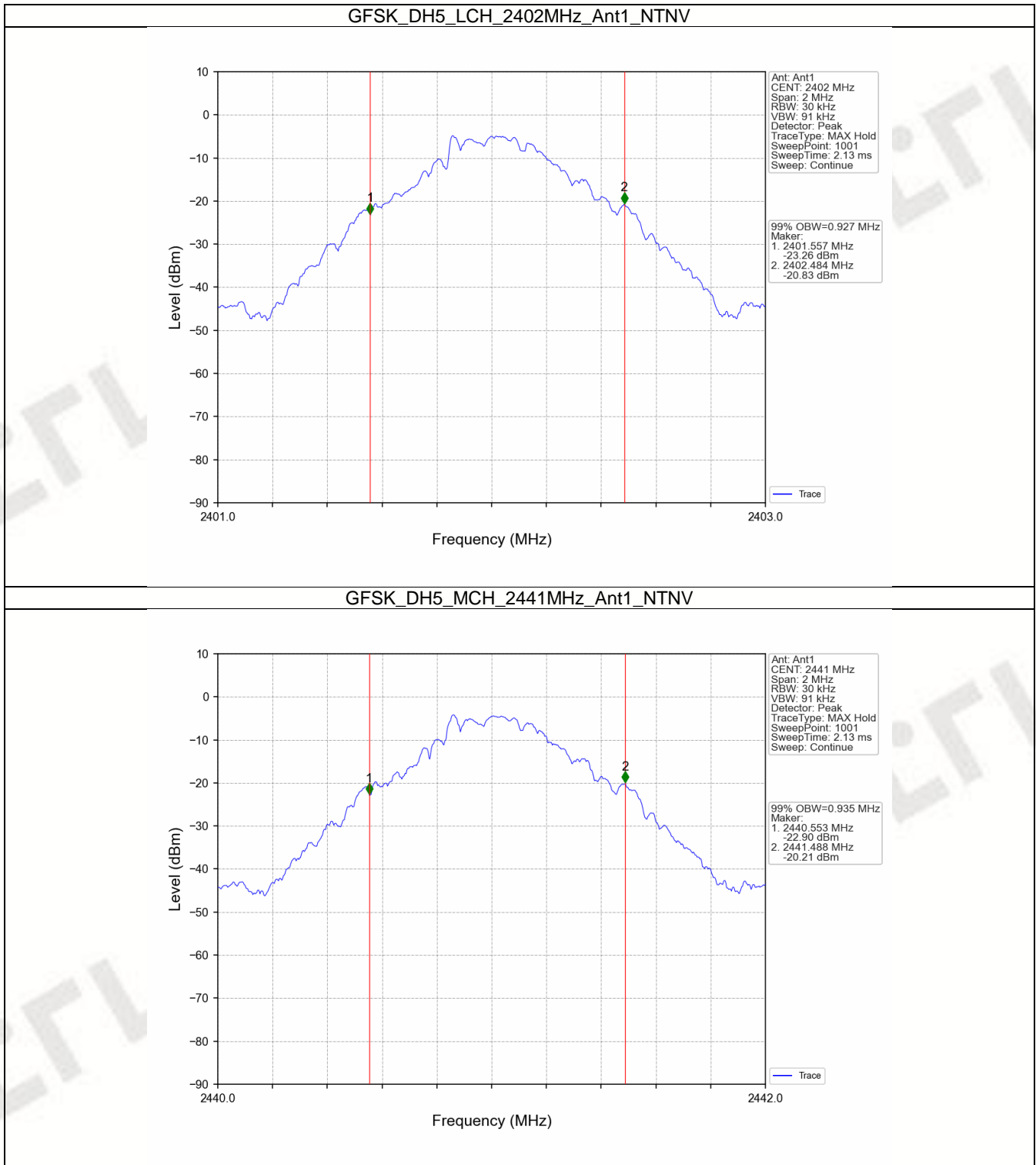
### 1.1 OBW

#### 1.1.1 Test Result

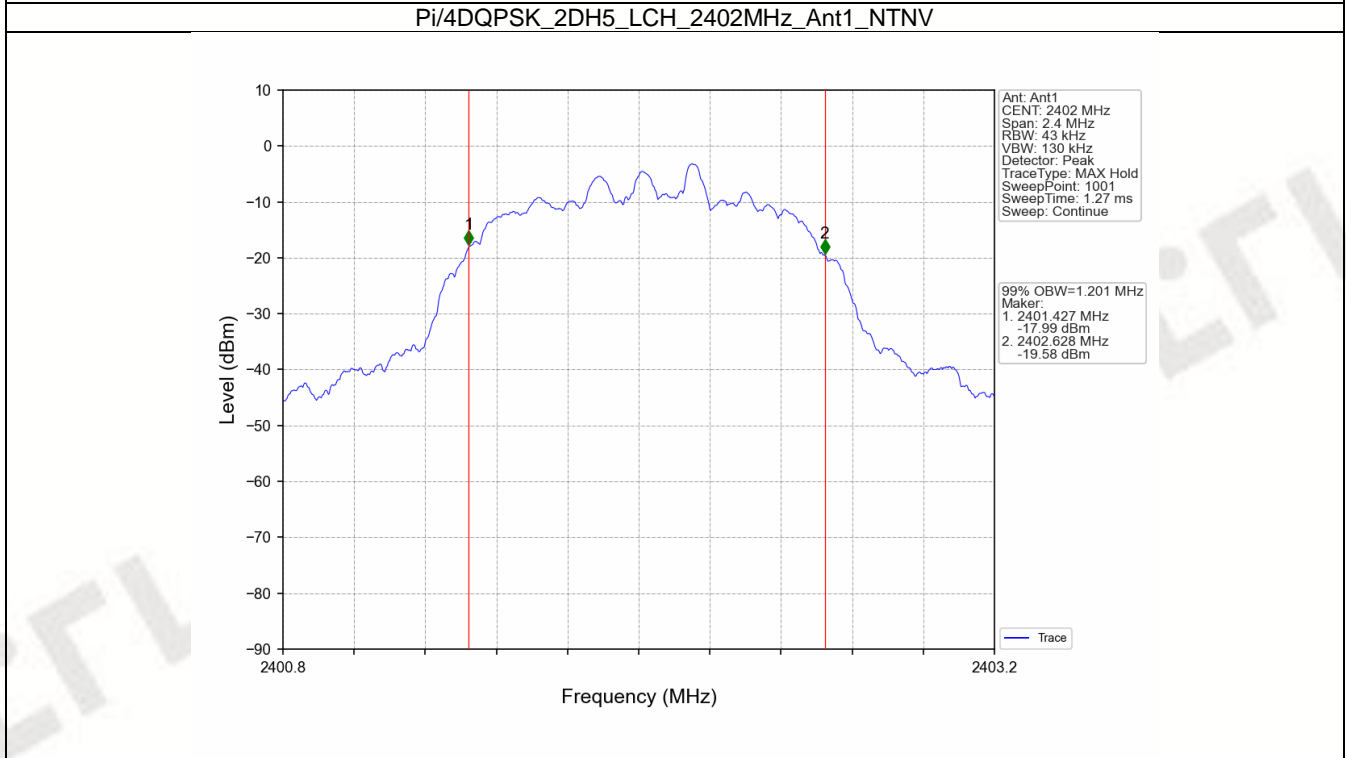
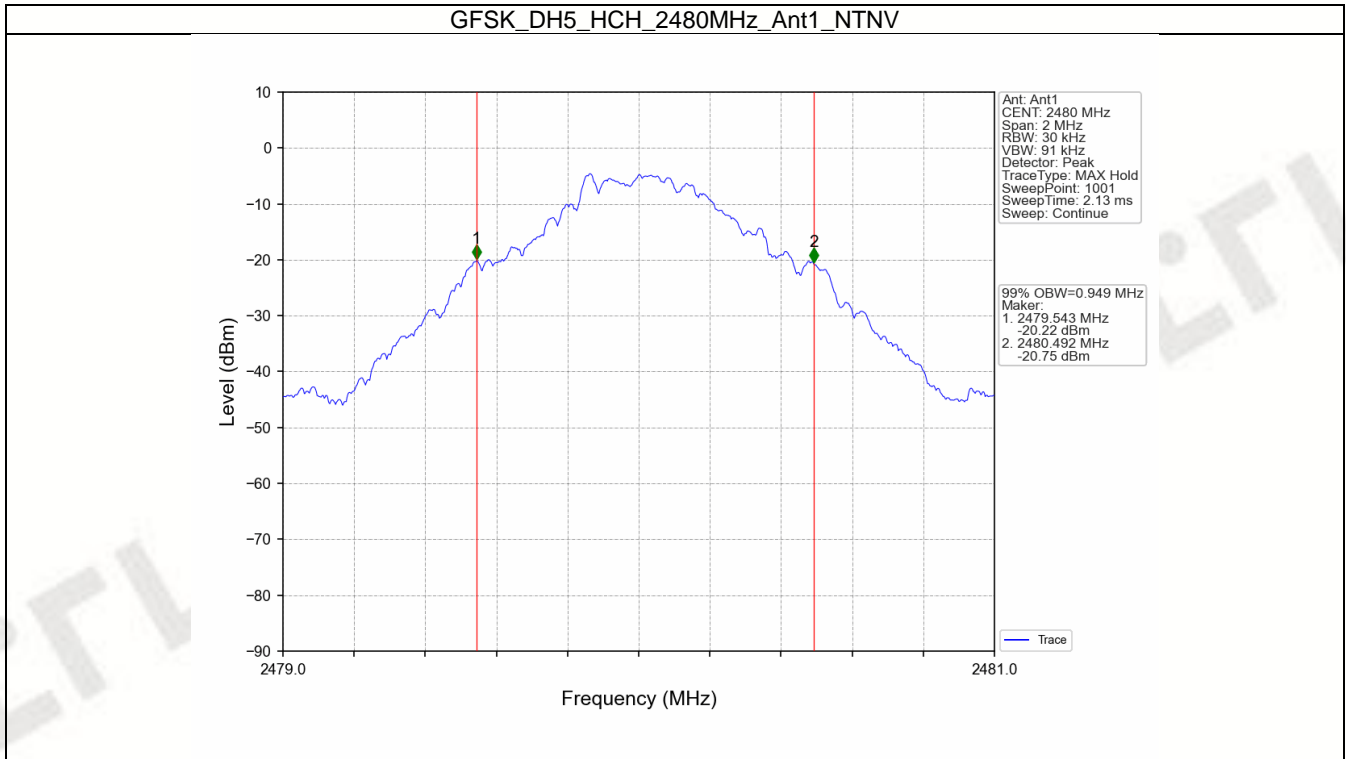
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.927	/	Pass
		2441	DH5	1	0.935	/	Pass
		2480	DH5	1	0.949	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.201	/	Pass
		2441	2DH5	1	1.212	/	Pass
		2480	2DH5	1	1.222	/	Pass
8DPSK	SISO	2402	3DH5	1	1.200	/	Pass
		2441	3DH5	1	1.206	/	Pass
		2480	3DH5	1	1.208	/	Pass

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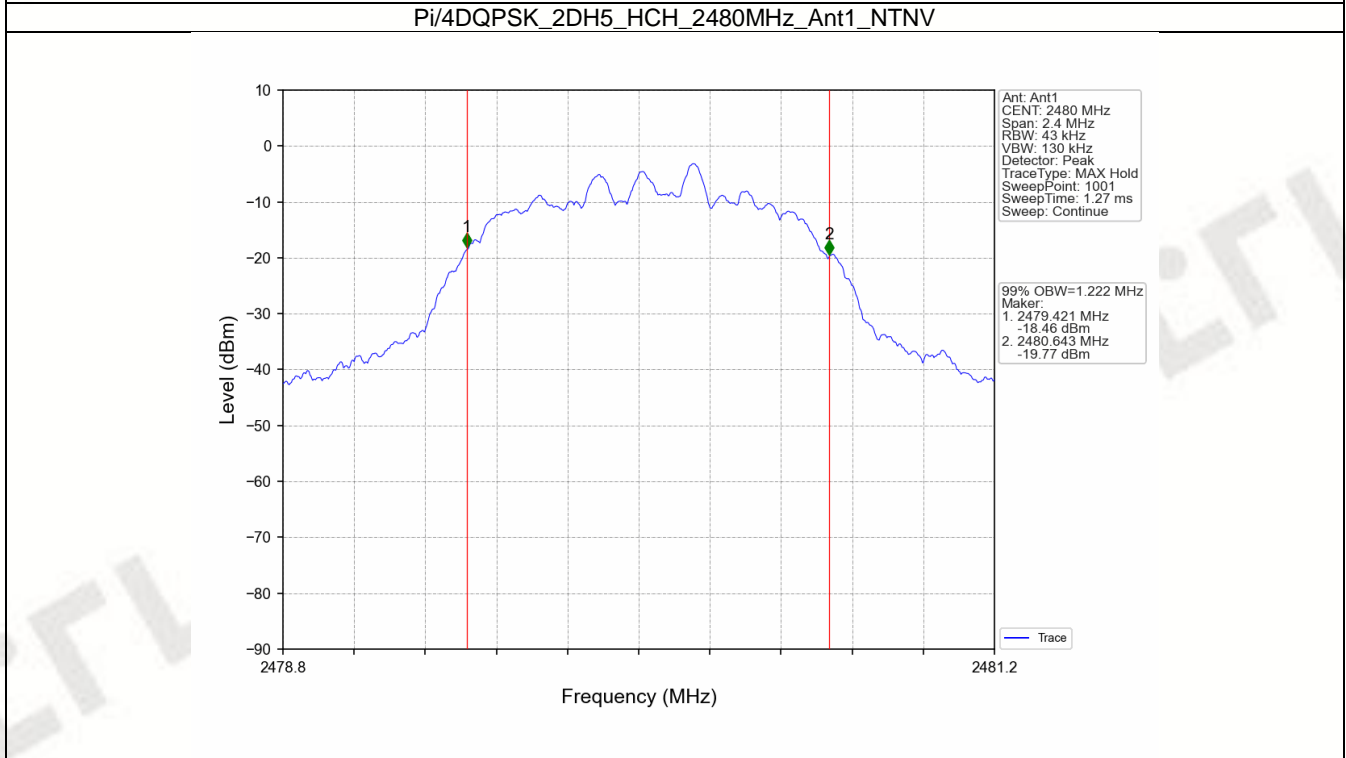
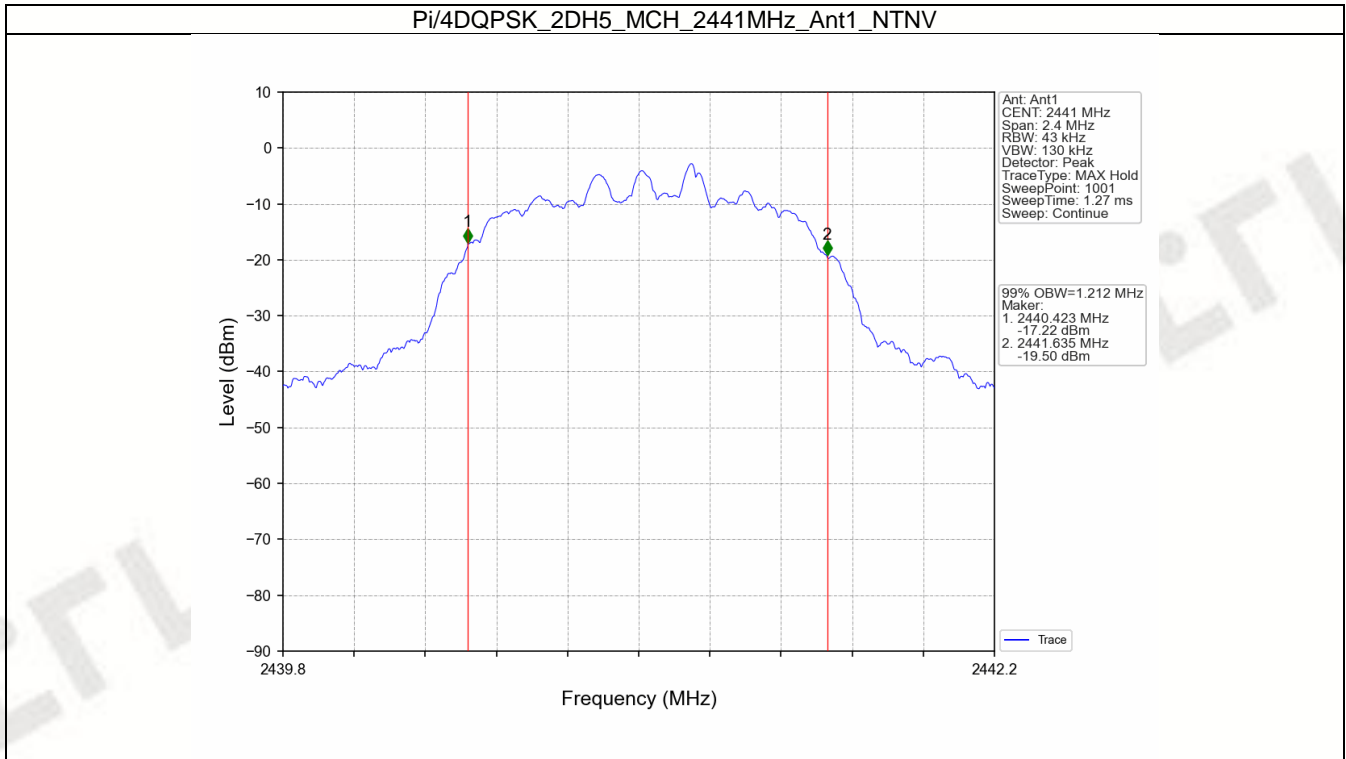
1.1.2 Test Graph



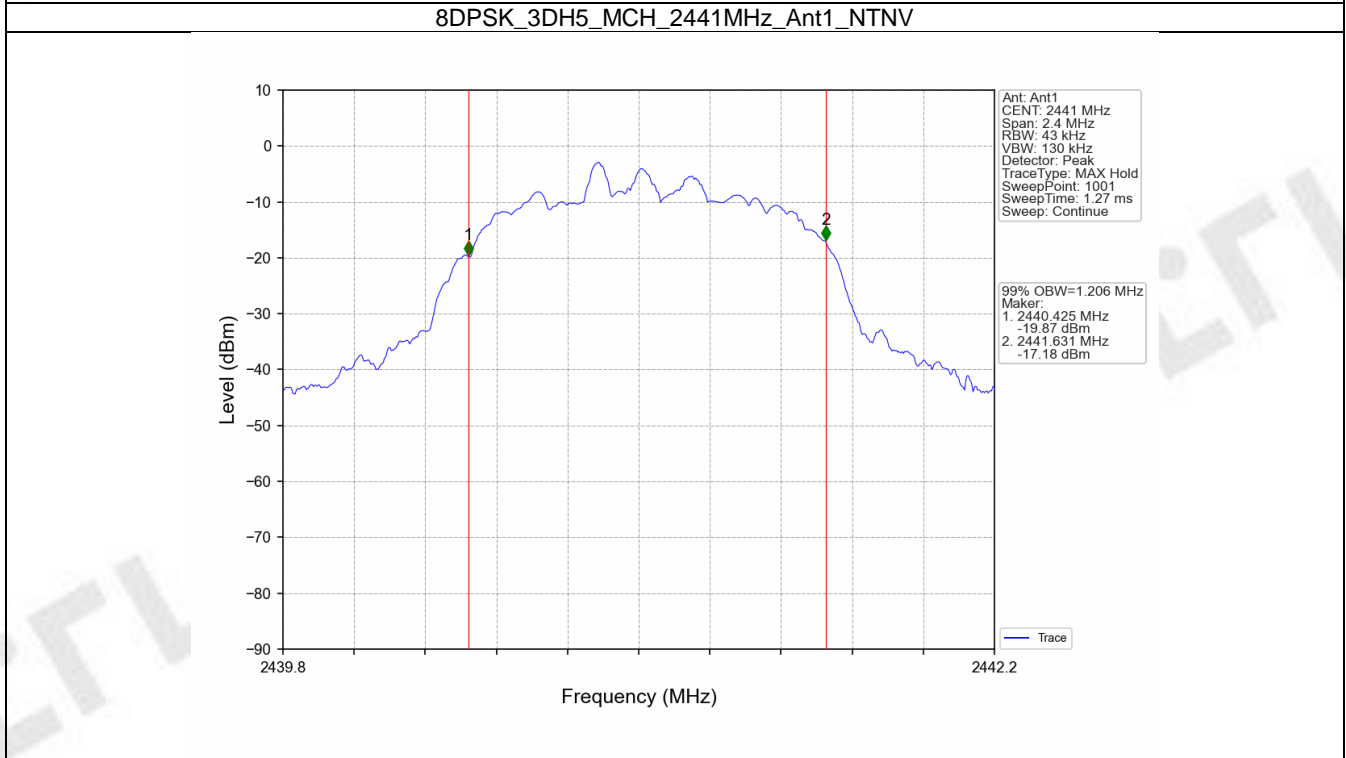
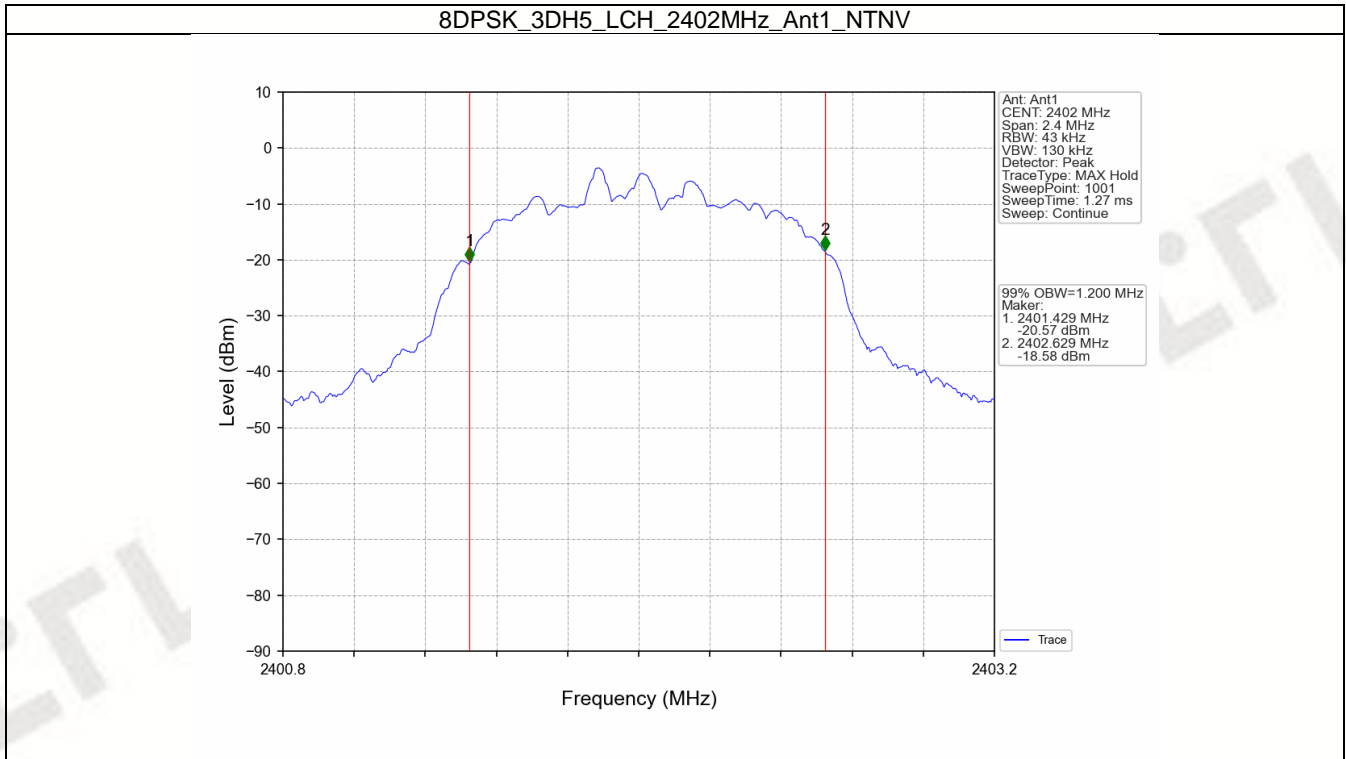
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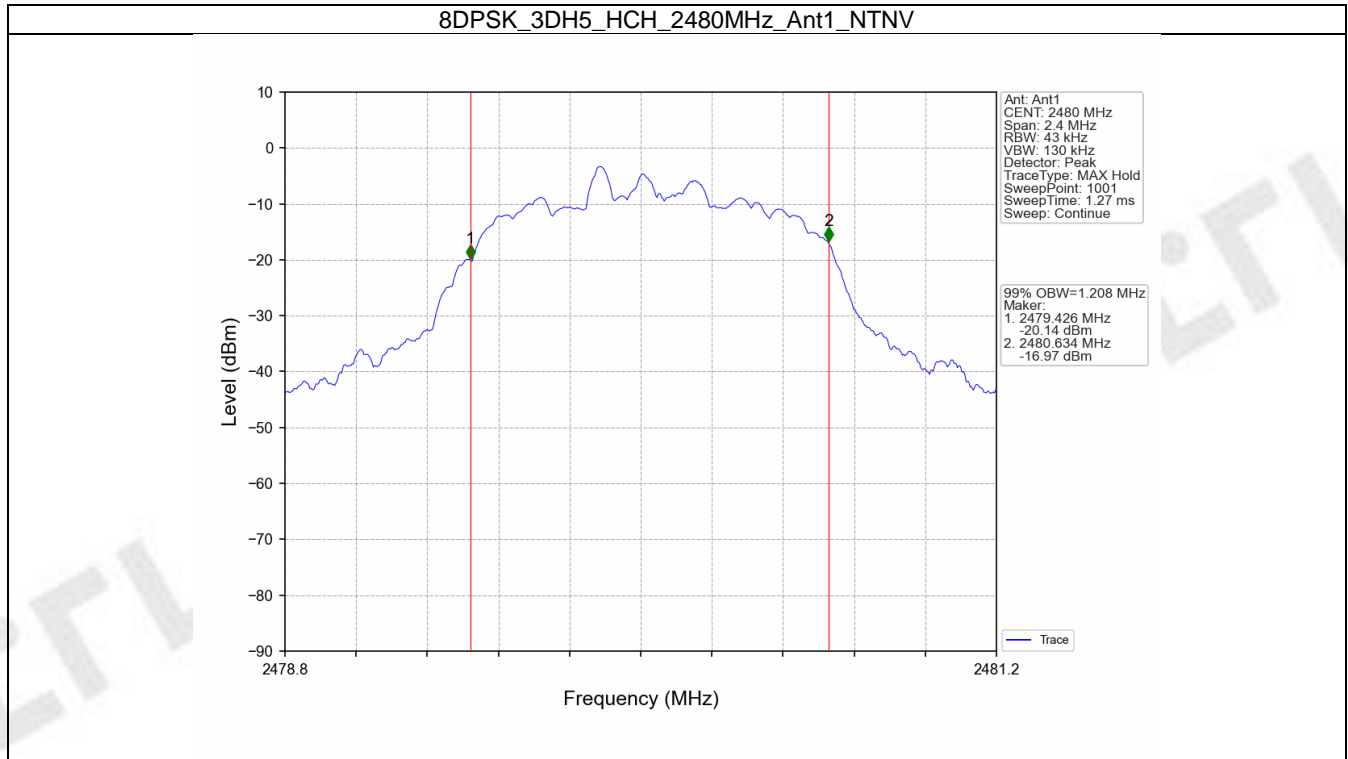
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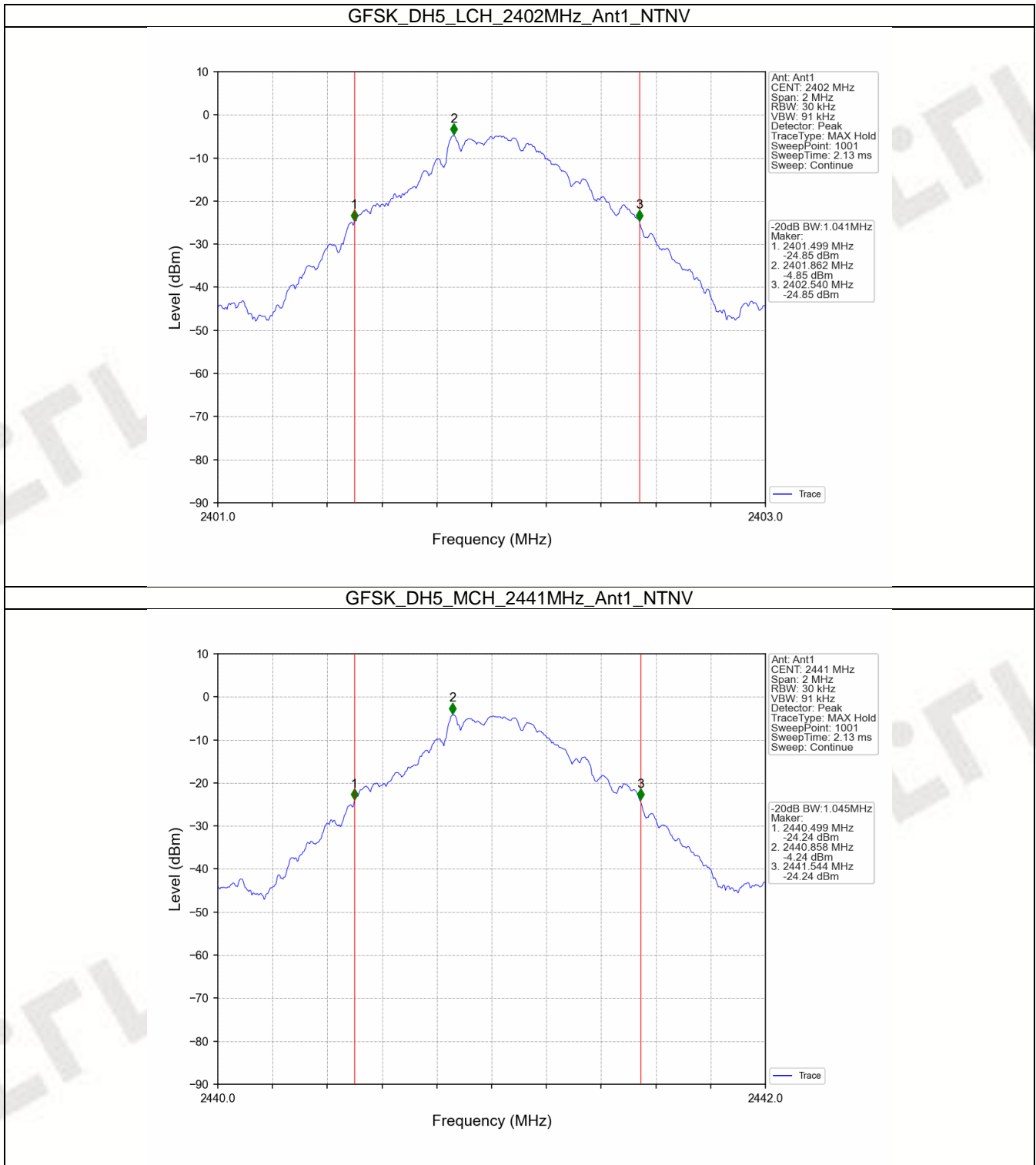
FCCID: 2AU4P-BTS081

**1.2 20dB BW****1.2.1 Test Result**

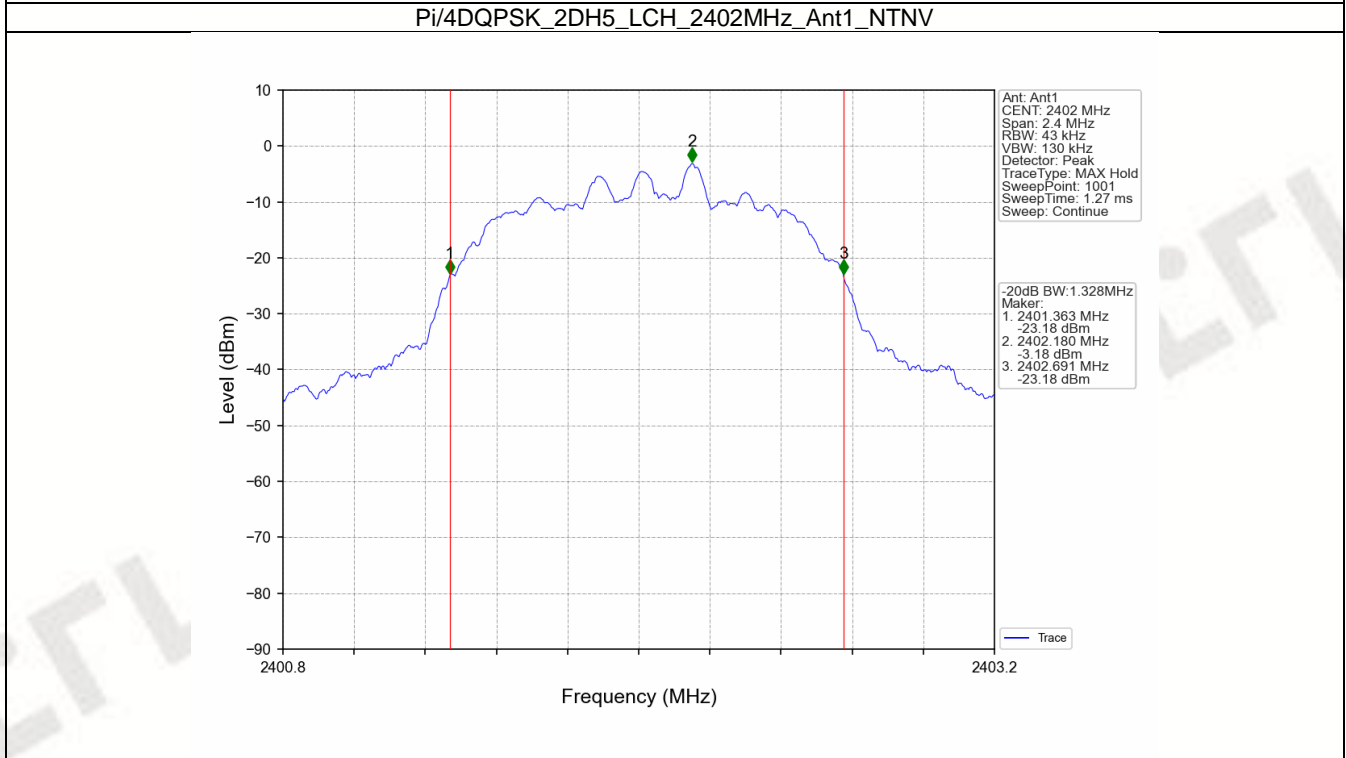
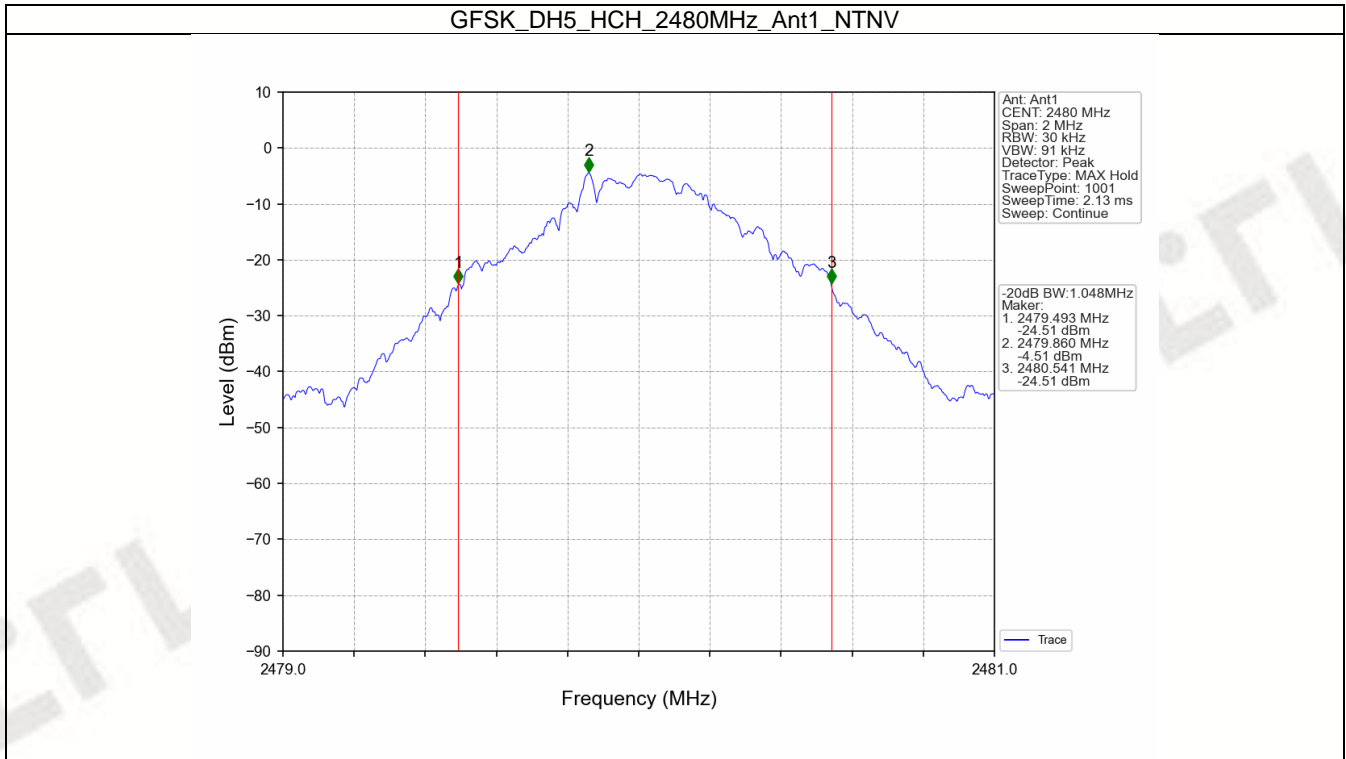
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.041	/	Pass
		2441	DH5	1	1.045	/	Pass
		2480	DH5	1	1.048	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.328	/	Pass
		2441	2DH5	1	1.323	/	Pass
		2480	2DH5	1	1.338	/	Pass
8DPSK	SISO	2402	3DH5	1	1.322	/	Pass
		2441	3DH5	1	1.317	/	Pass
		2480	3DH5	1	1.311	/	Pass

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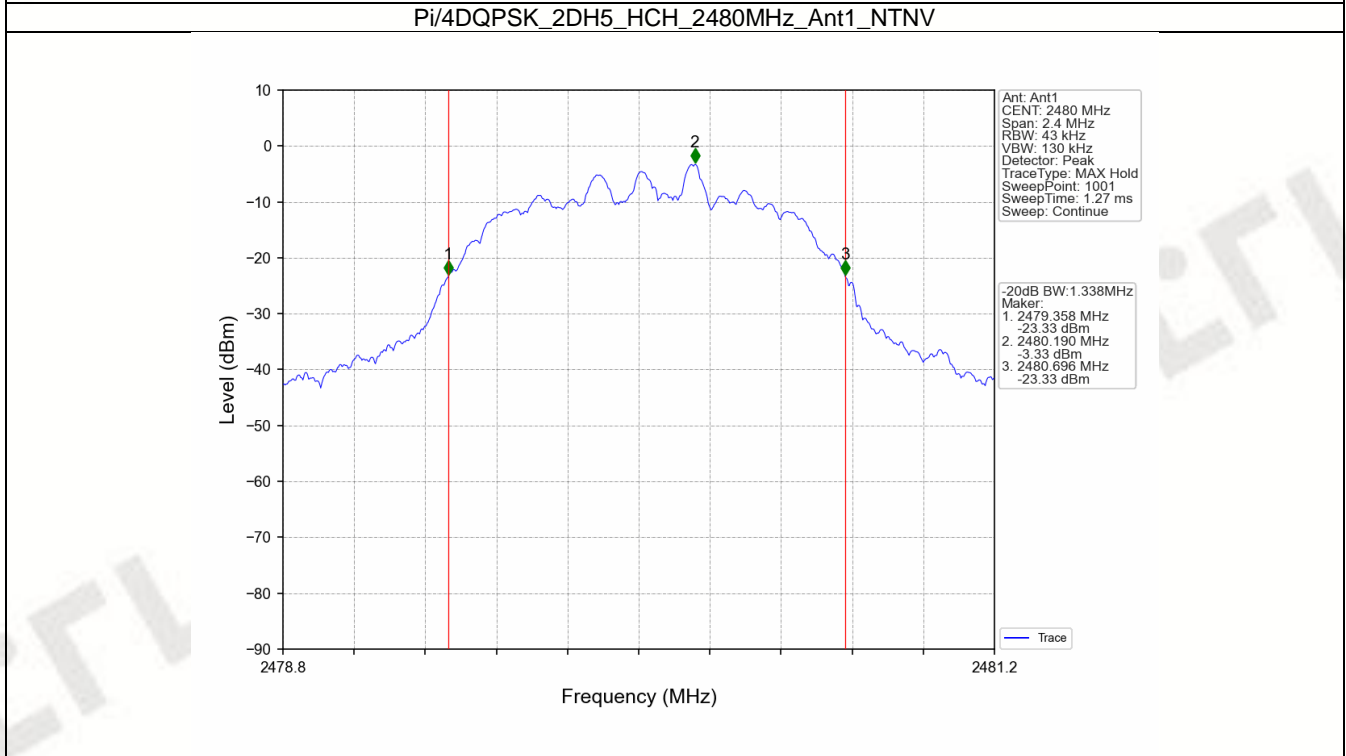
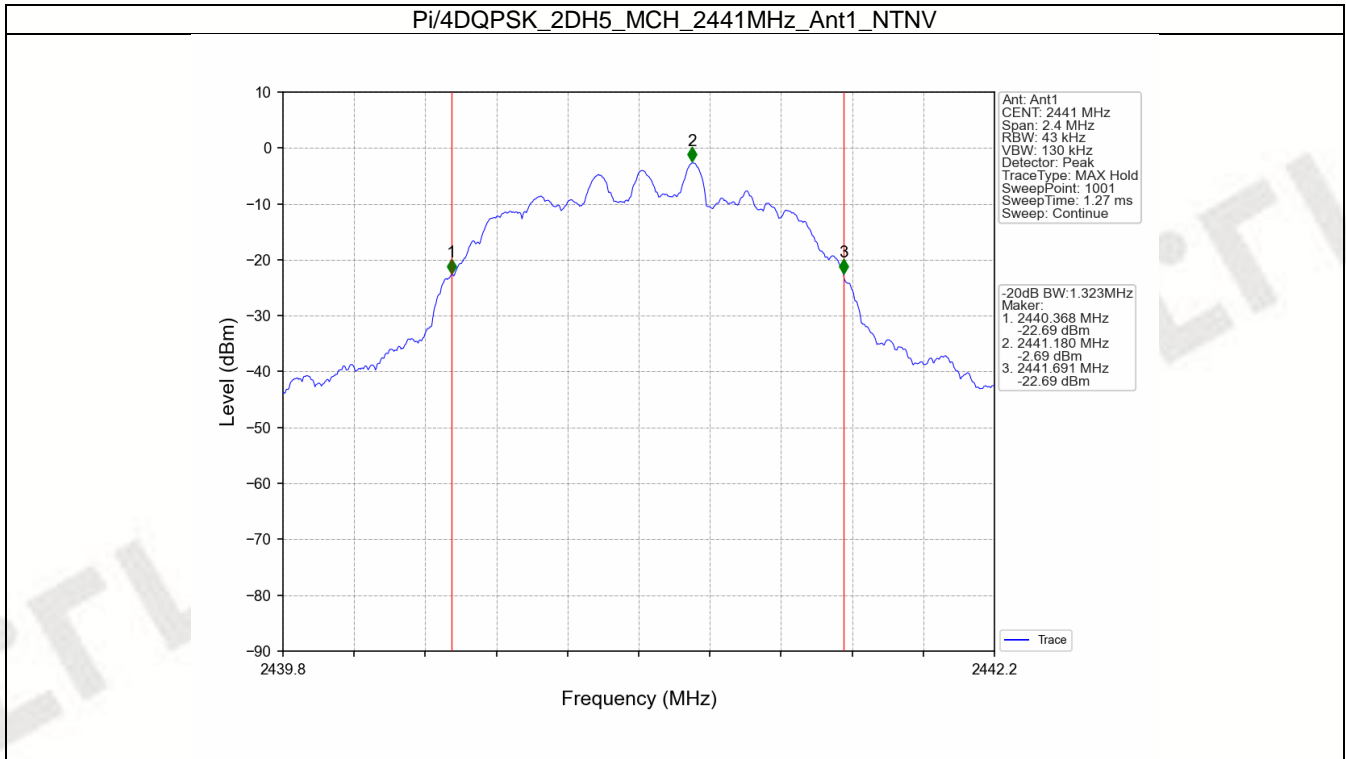
### 1.2.2 Test Graph



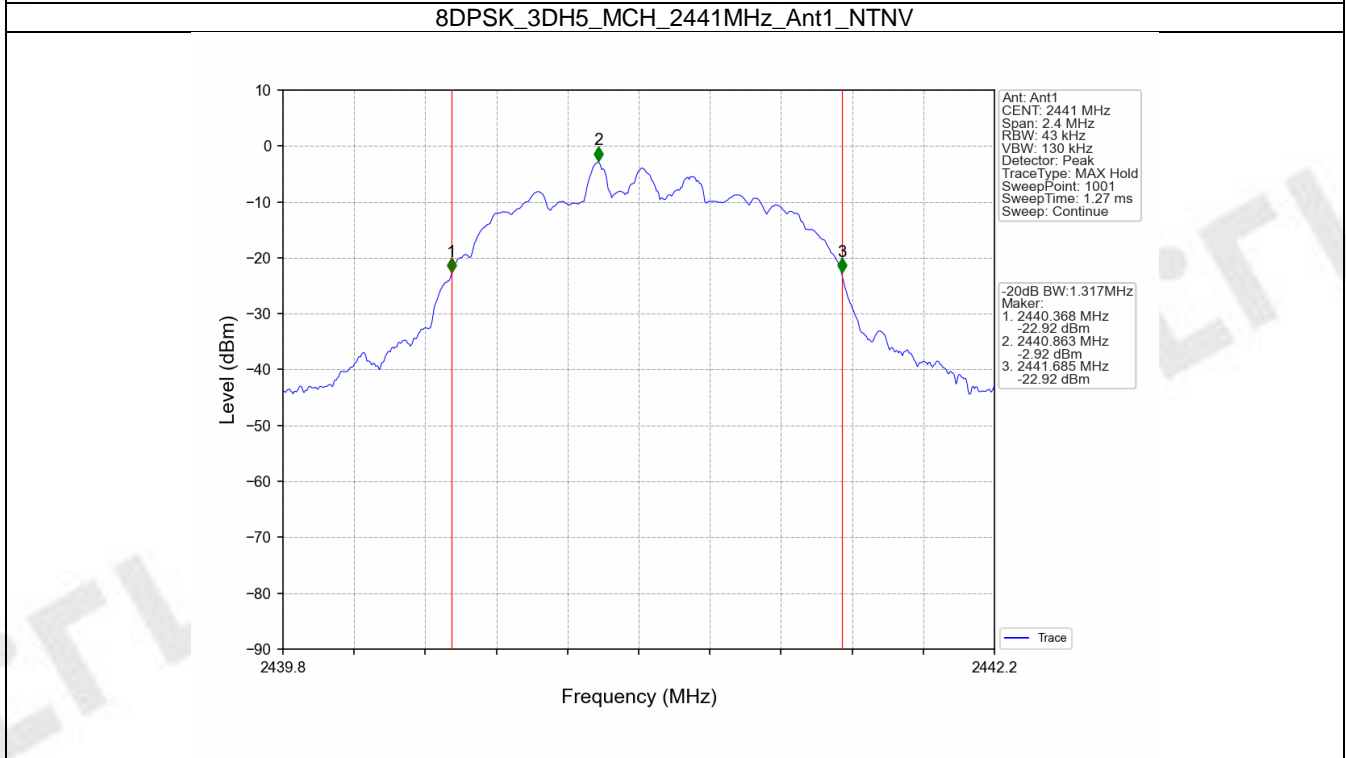
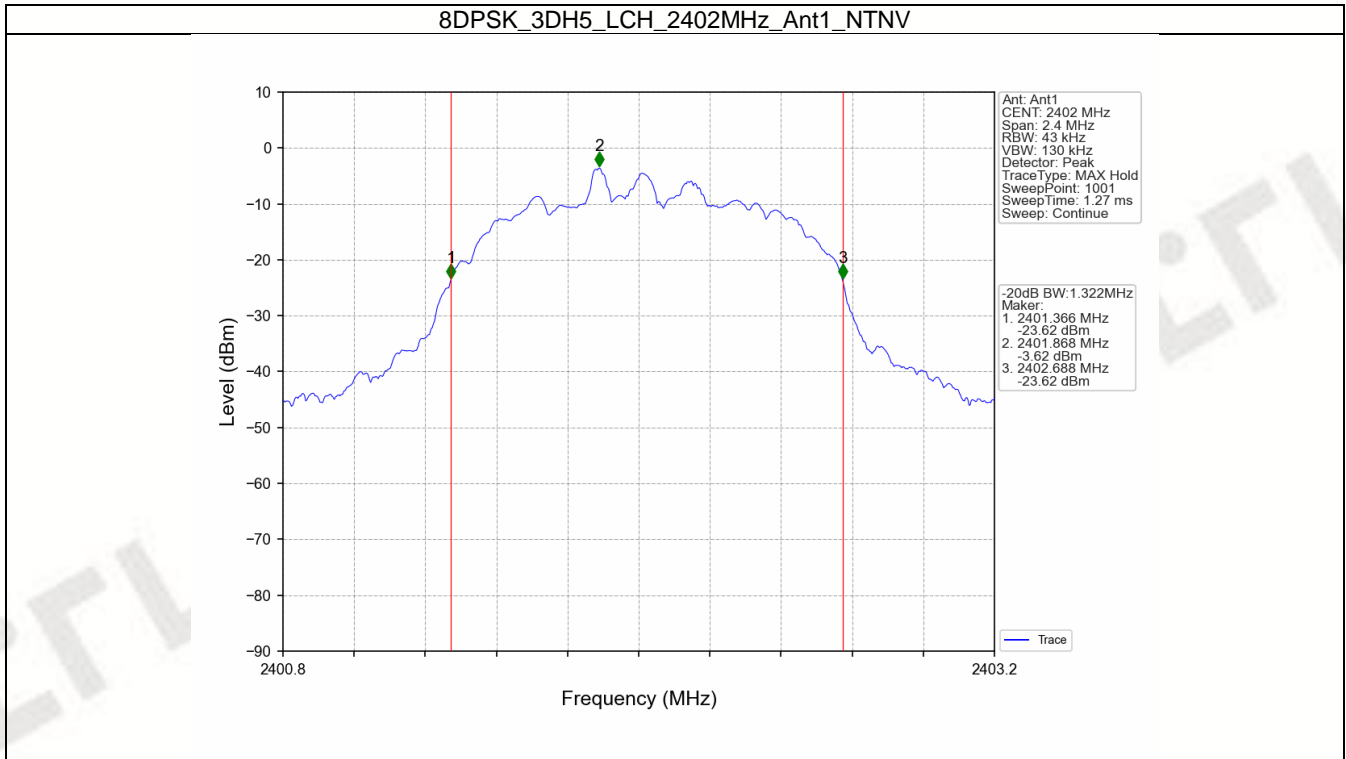
FCCID: 2AU4P-BTS081



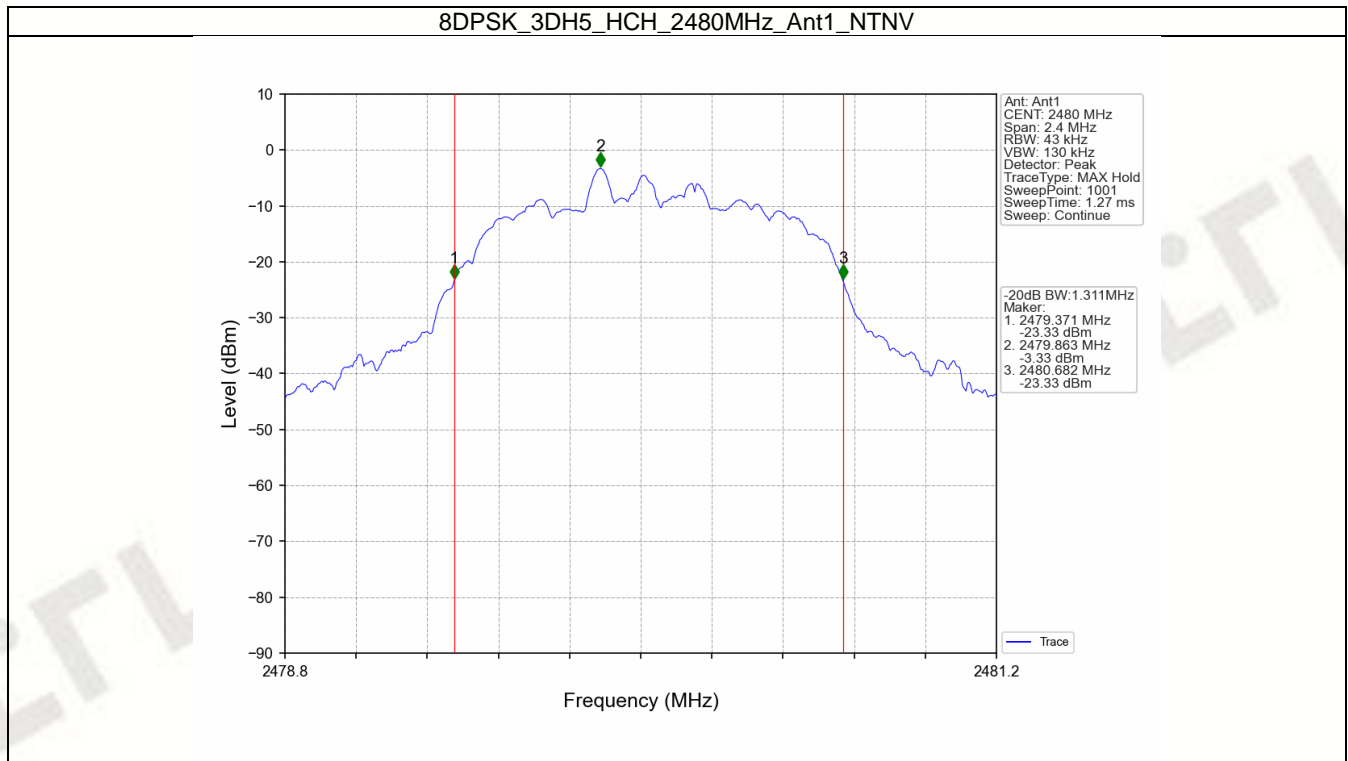
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## 2. Maximum Conducted Output Power

### 2.1 Power

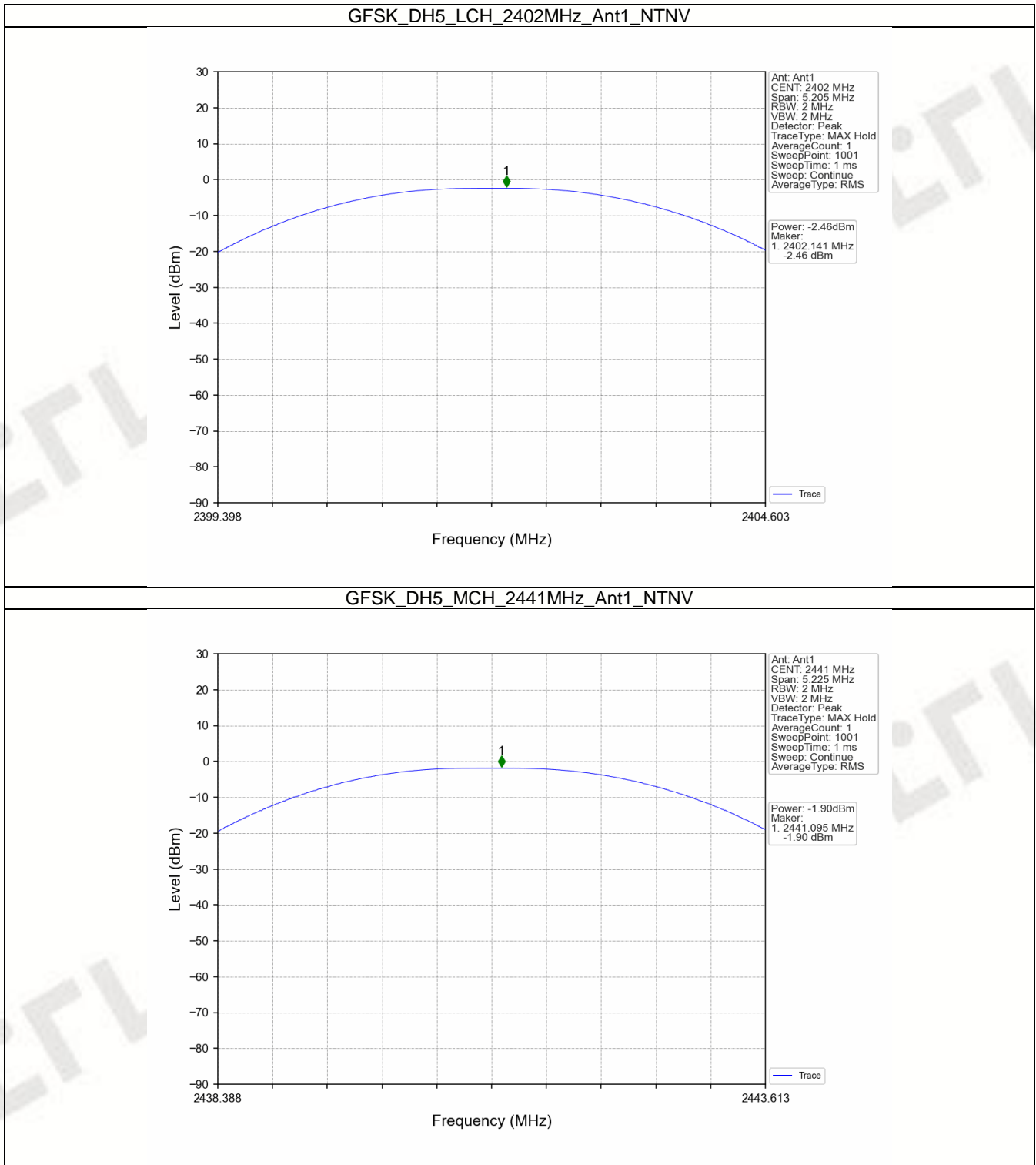
#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-2.46	<=20.97	Pass
		2441	DH5	-1.90	<=20.97	Pass
		2480	DH5	-2.28	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	-1.60	<=20.97	Pass
		2441	2DH5	-1.07	<=20.97	Pass
		2480	2DH5	-1.46	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-1.21	<=20.97	Pass
		2441	3DH5	-0.65	<=20.97	Pass
		2480	3DH5	-1.05	<=20.97	Pass

Note1: Antenna Gain: Ant1: -0.58dBi;

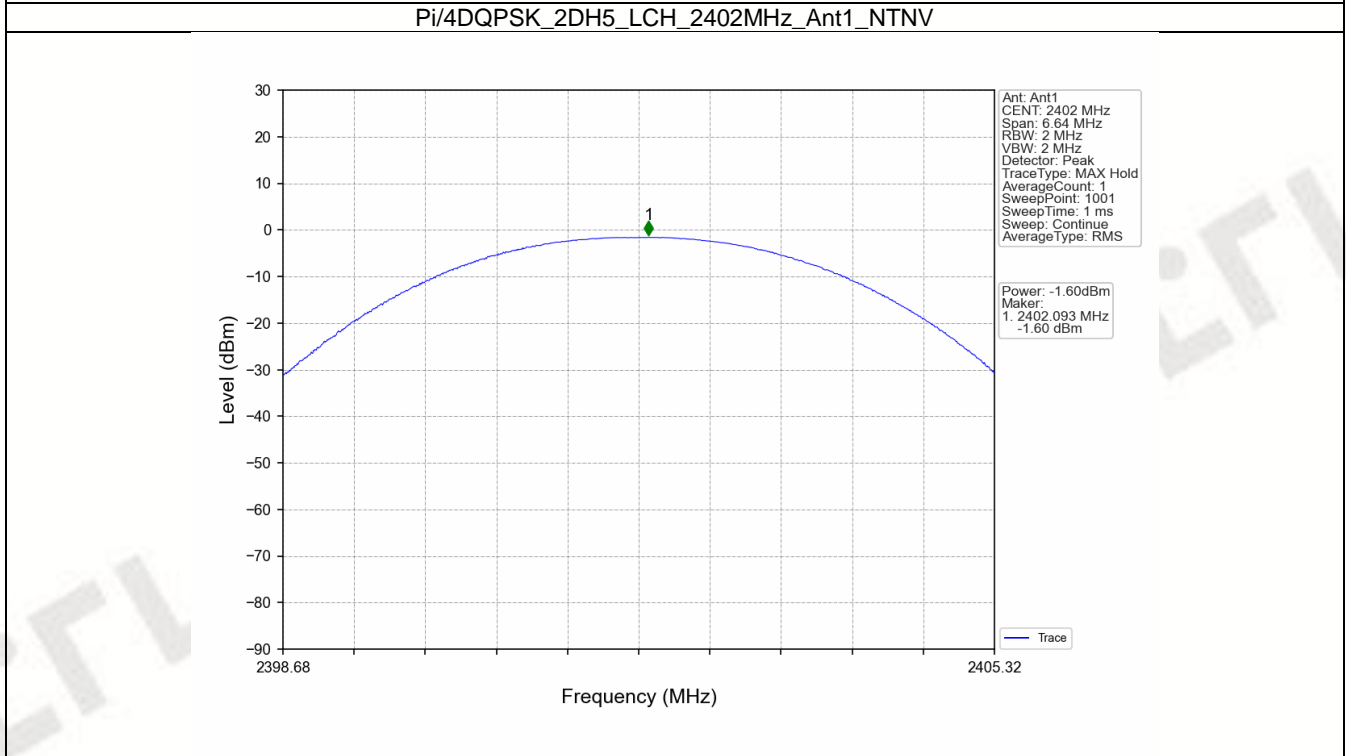
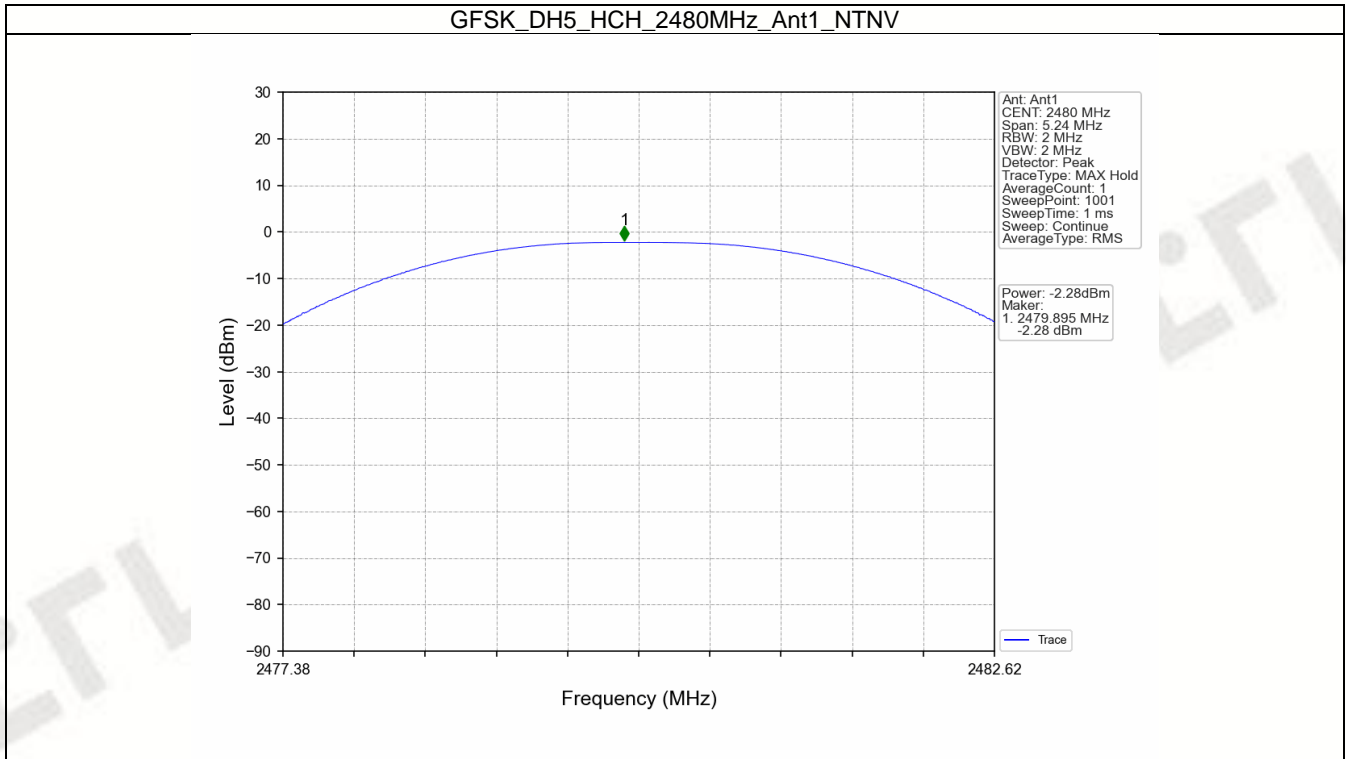
FCCID: 2AU4P-BTS081

2.1.2 Test Graph

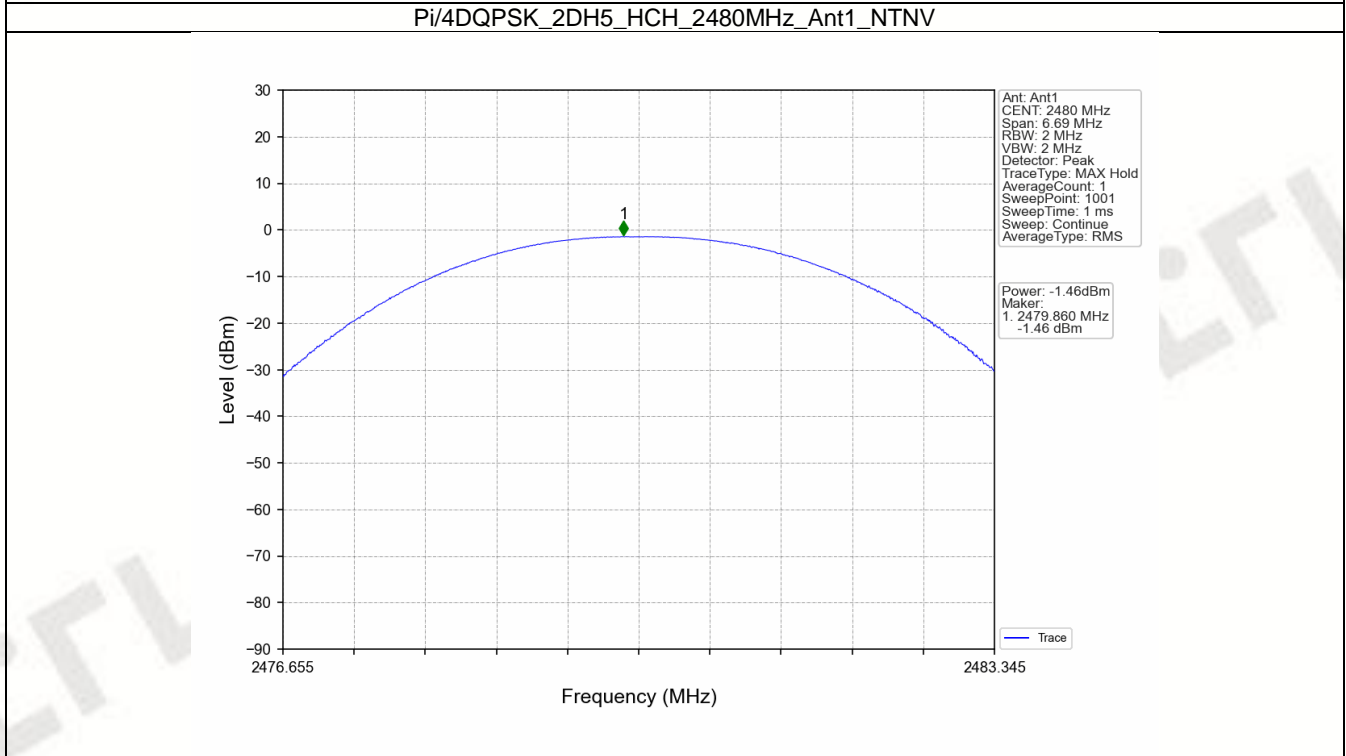
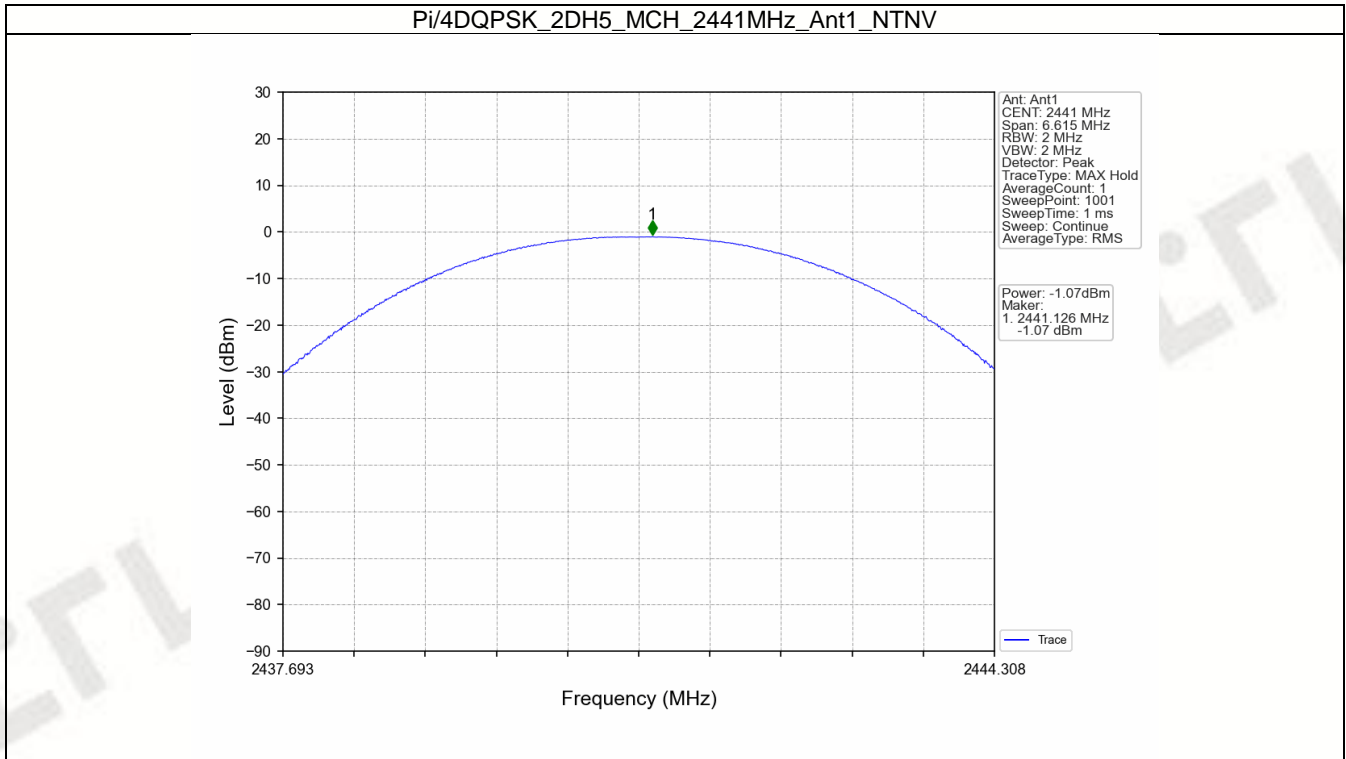




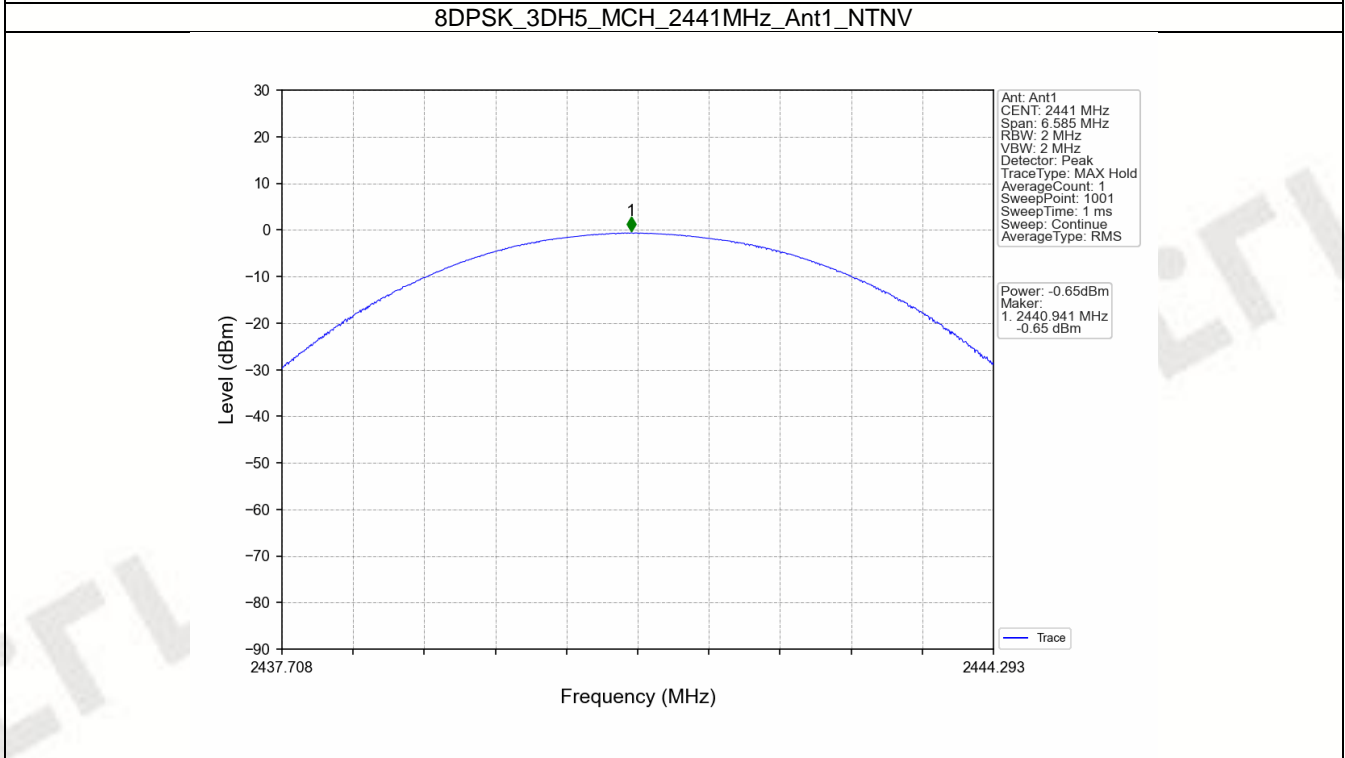
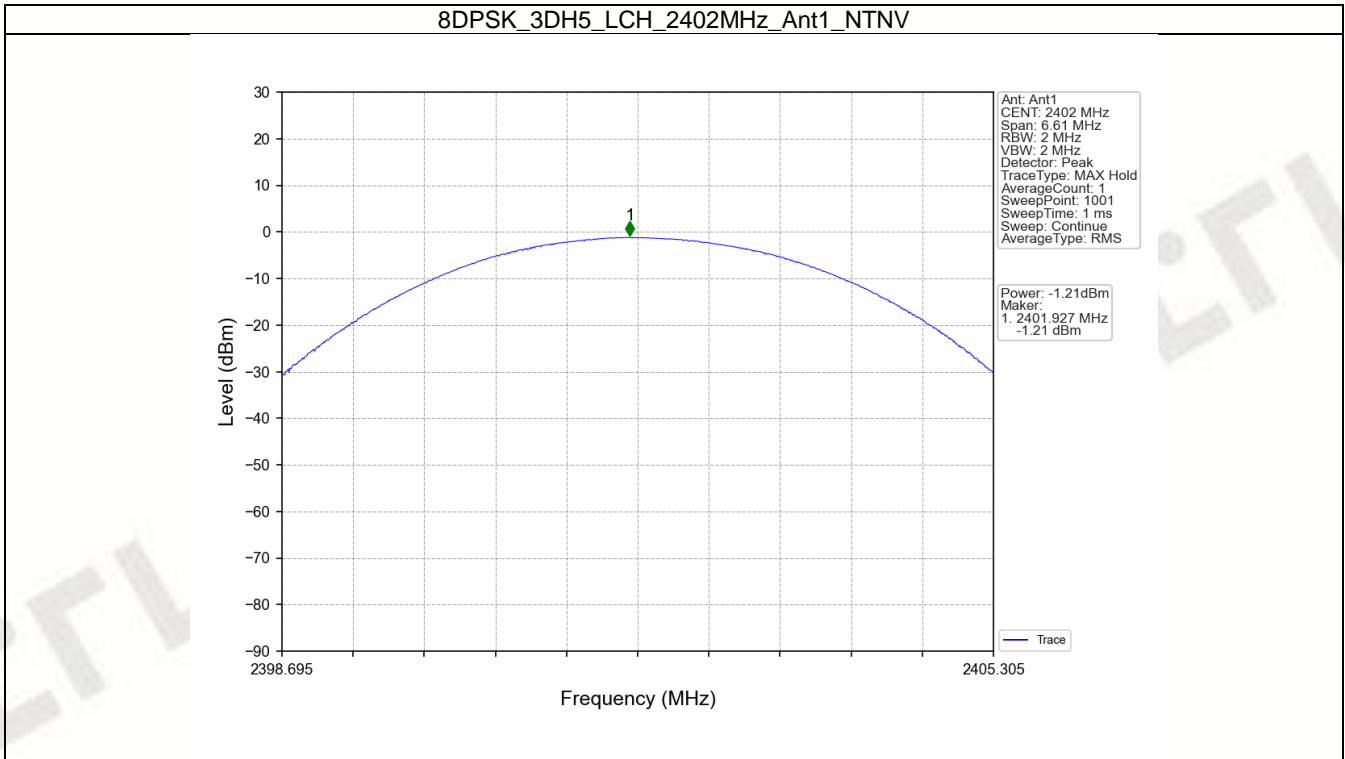
FCCID: 2AU4P-BTS081



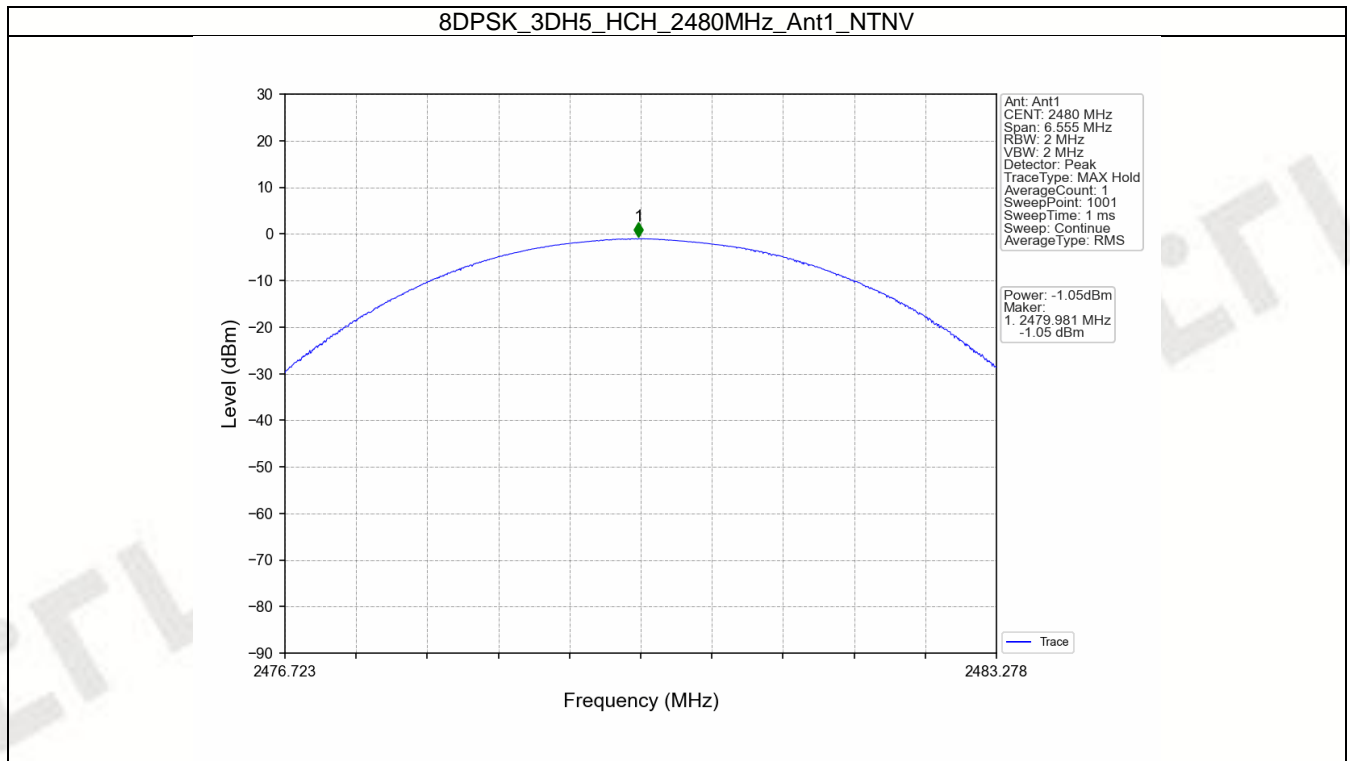
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FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081

### 3. Carrier Frequency Separation

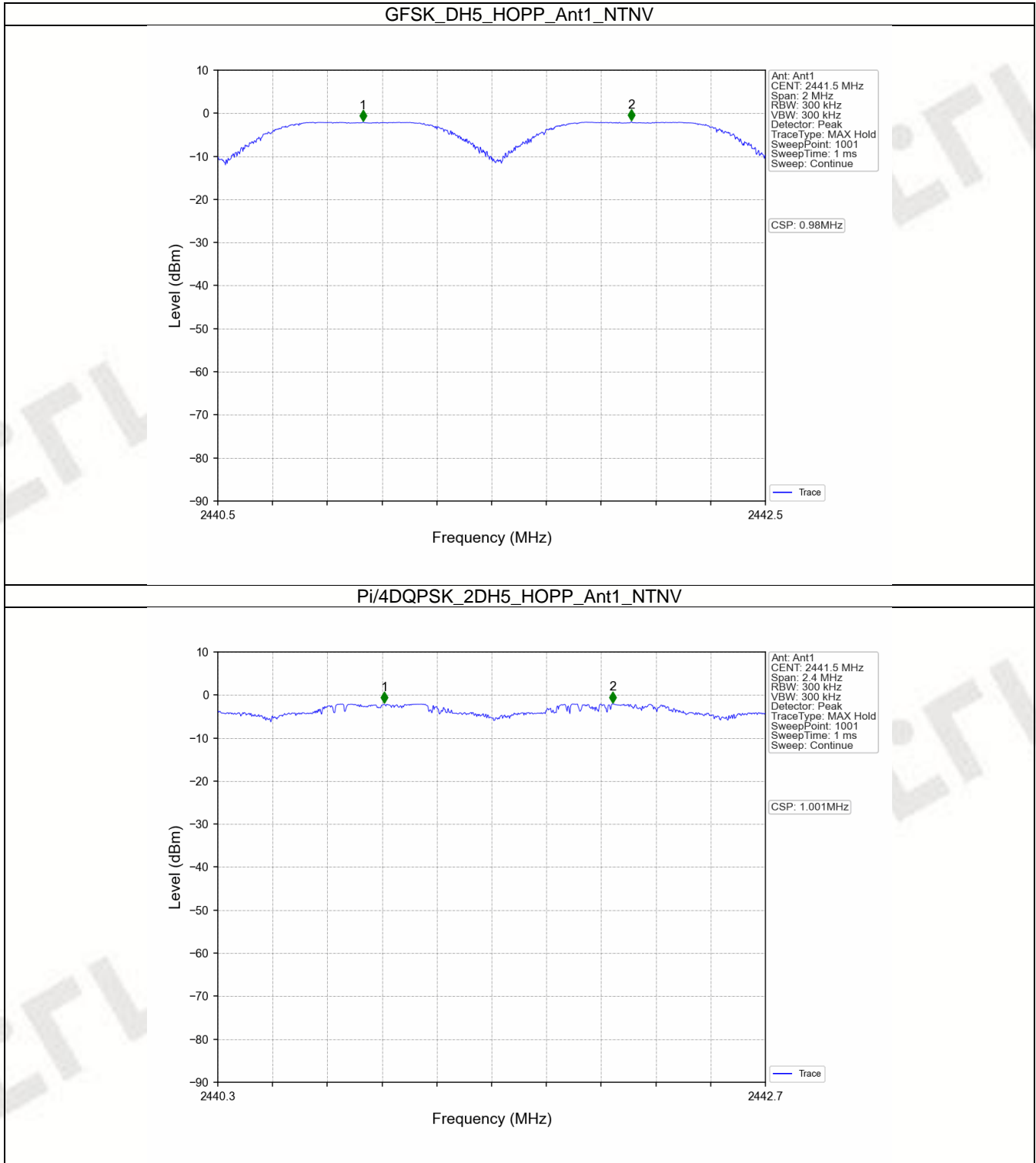
#### 3.1 Ant1

##### 3.1.1 Test Result

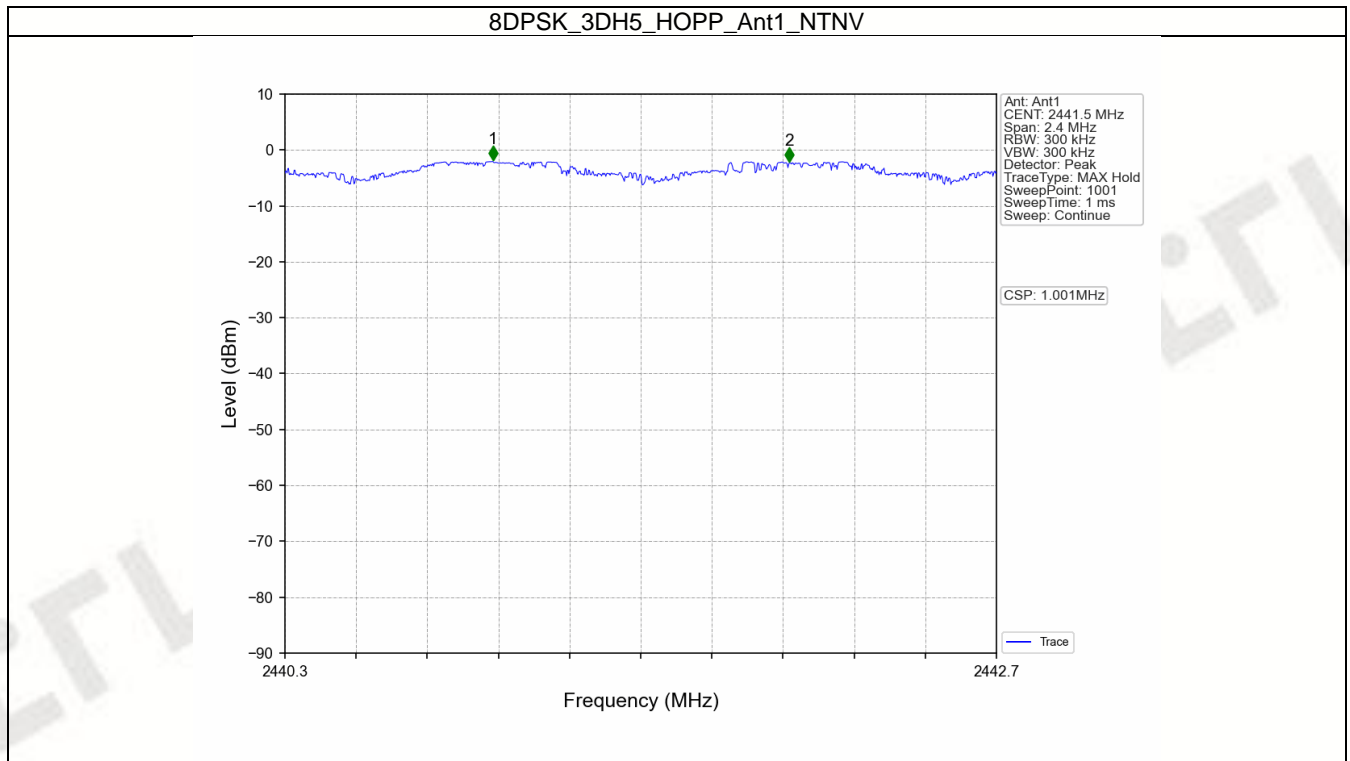
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.980	1.048	$\geq 0.699$	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.338	$\geq 0.892$	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.322	$\geq 0.881$	Pass

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3.1.2 Test Graph



FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081

## 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

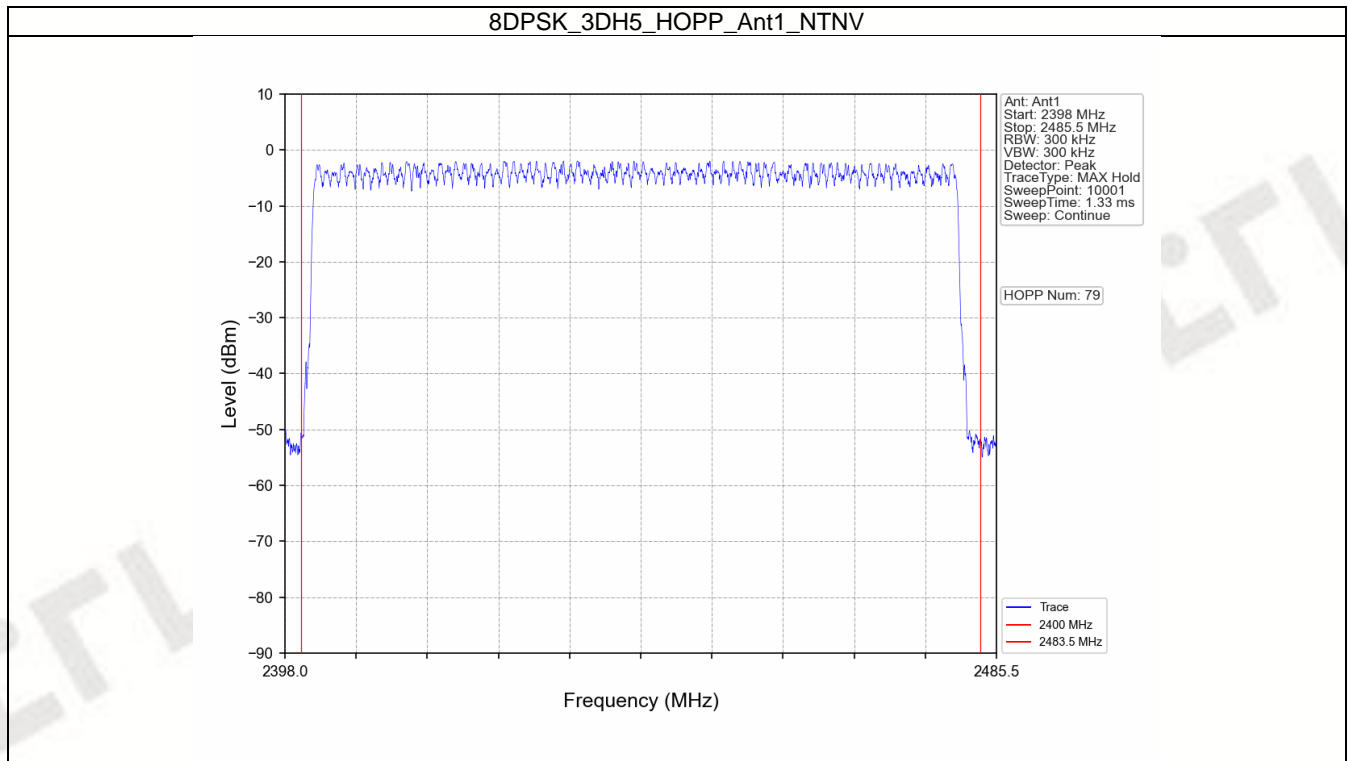


FCCID: 2AU4P-BTS081

4.1.2 Test Graph



FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081

## 5. Time of Occupancy (Dwell Time)

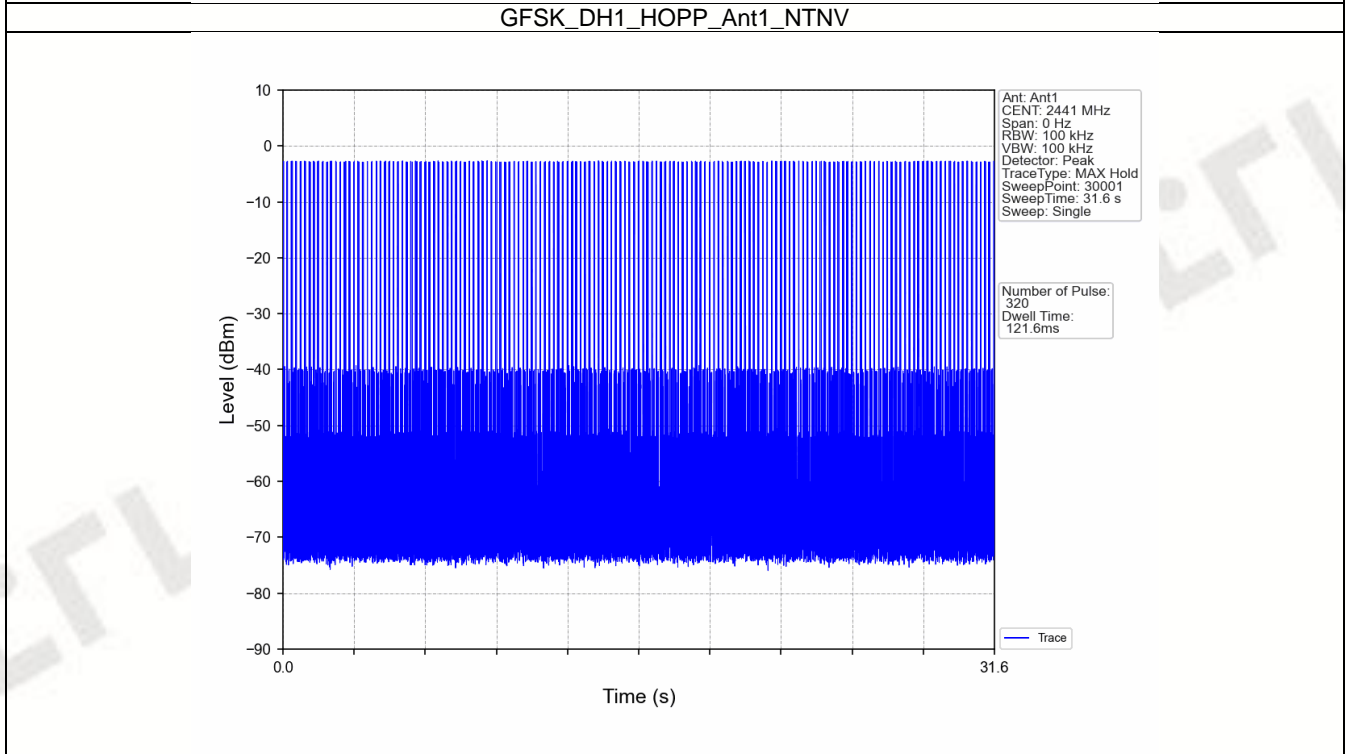
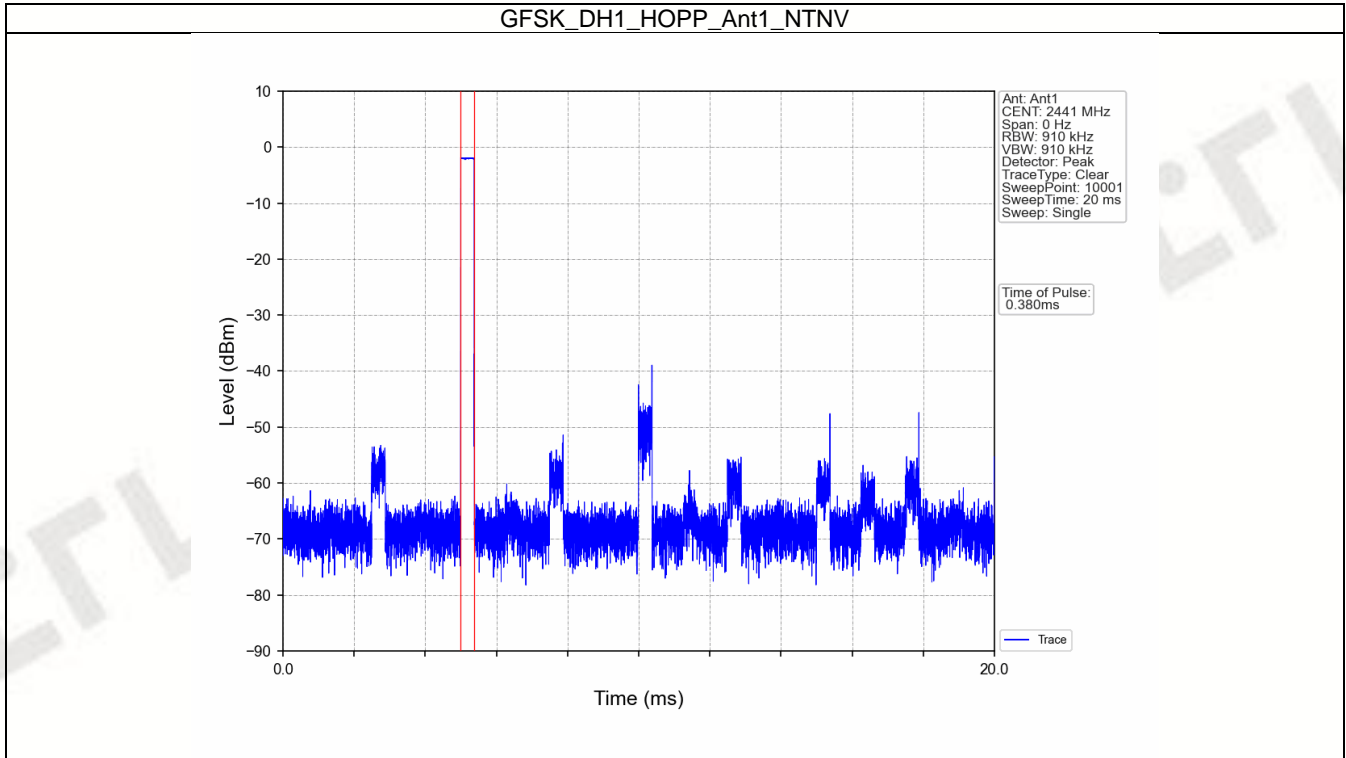
### 5.1 Ant1

#### 5.1.1 Test Result

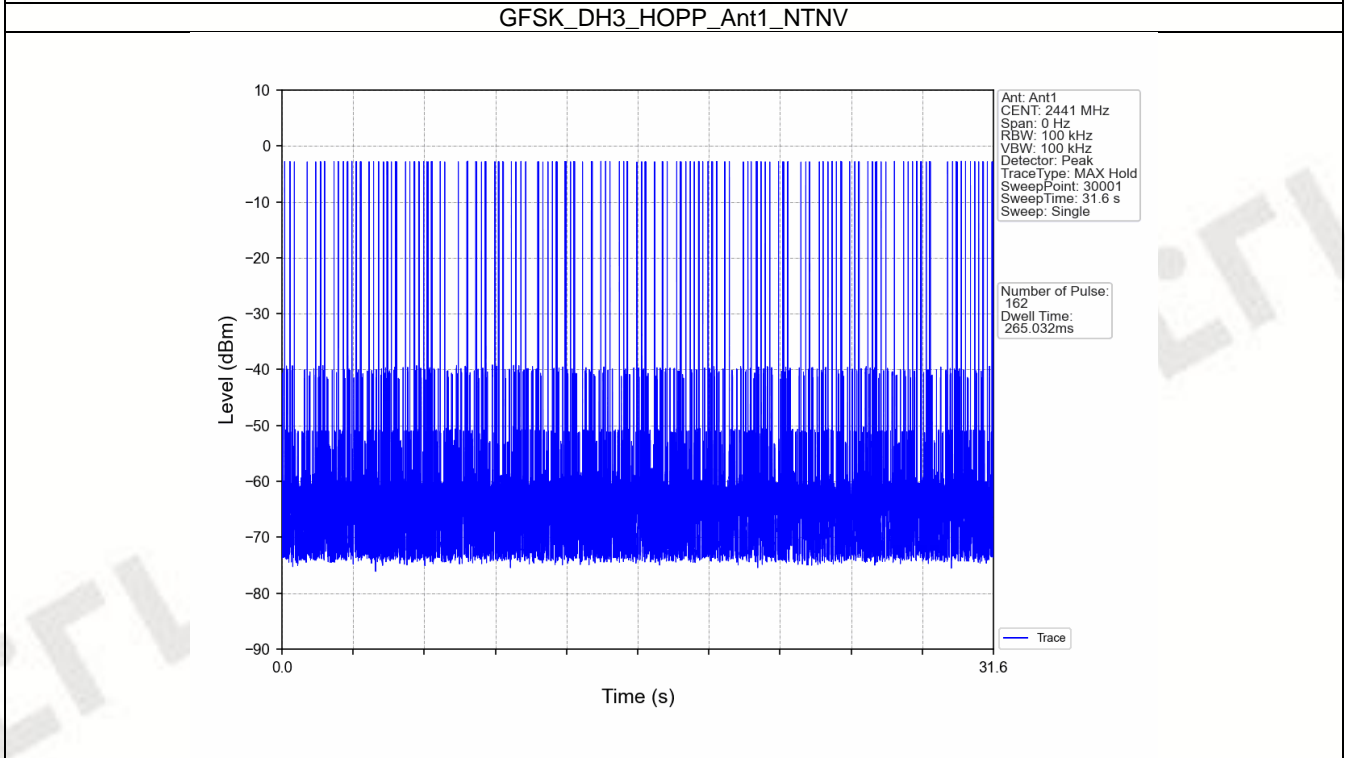
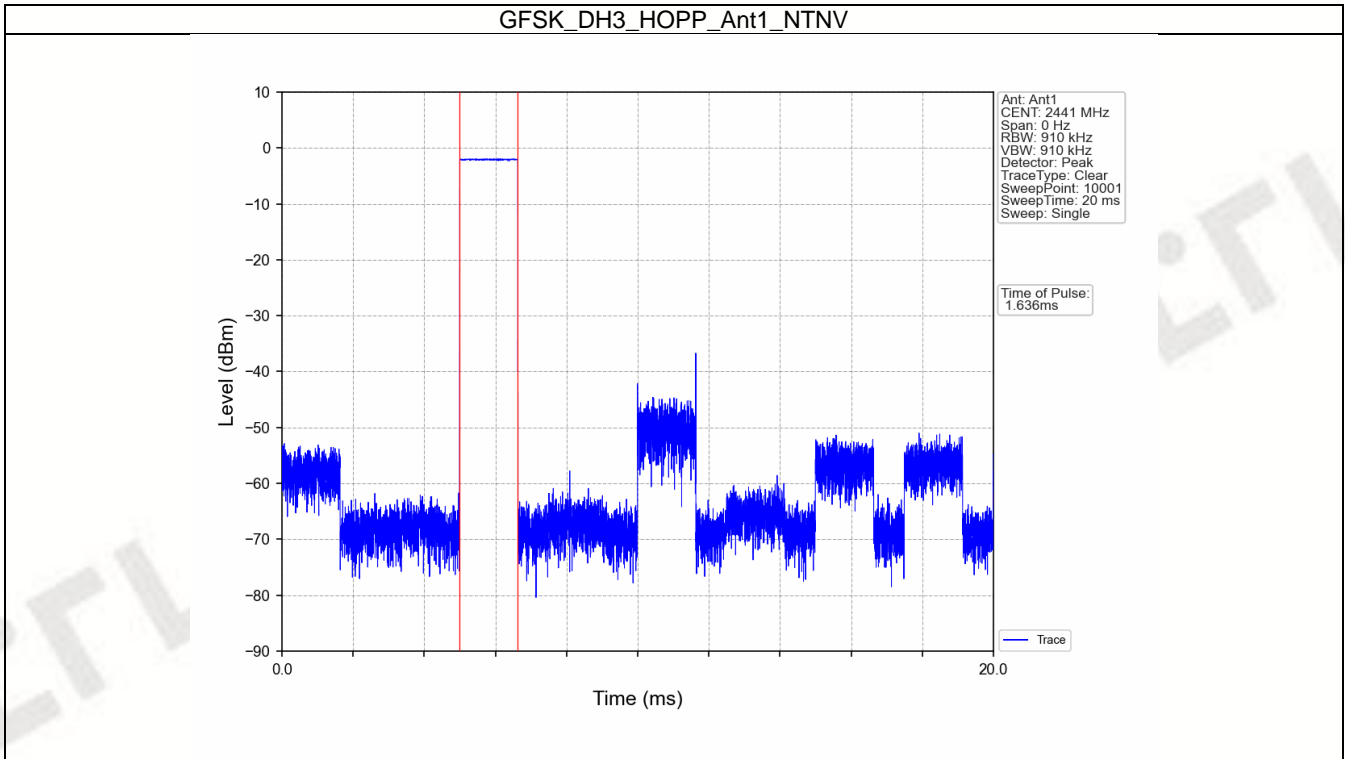
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.380	31.600	320	121.600	<=400	Pass
			DH3	1.636	31.600	162	265.032	<=400	Pass
			DH5	2.888	31.600	113	326.344	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.388	31.600	318	123.384	<=400	Pass
			2DH3	1.642	31.600	159	261.078	<=400	Pass
			2DH5	2.894	31.600	114	329.916	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	320	125.440	<=400	Pass
			3DH3	1.642	31.600	154	252.868	<=400	Pass
			3DH5	2.892	31.600	102	294.984	<=400	Pass

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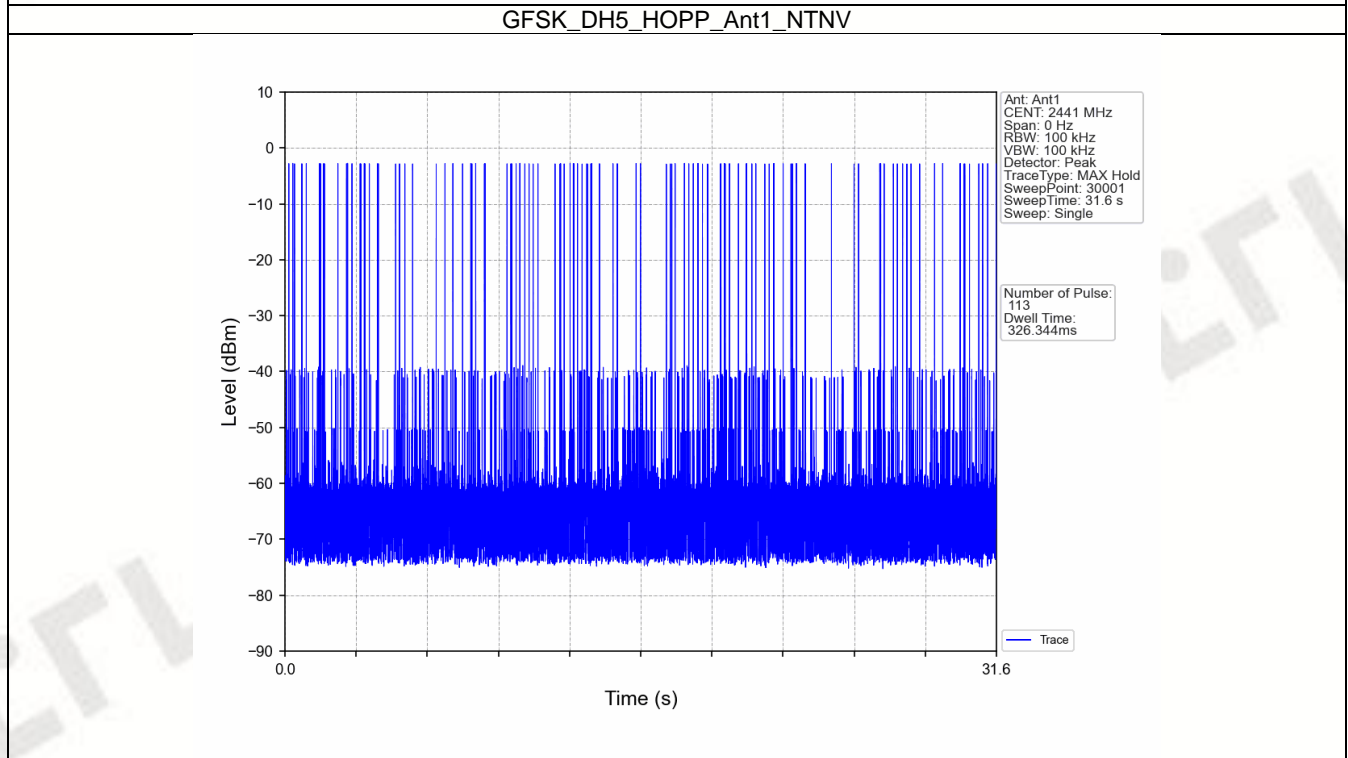
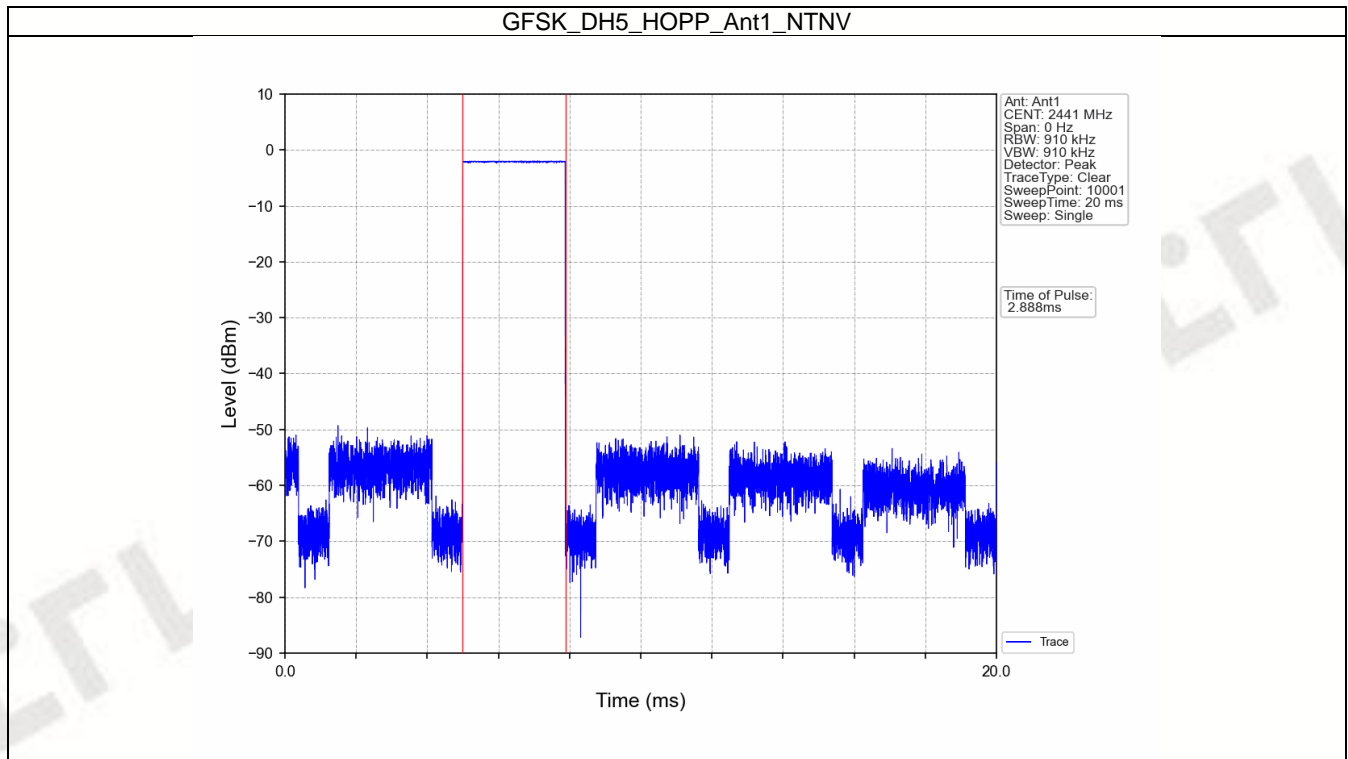
5.1.2 Test Graph

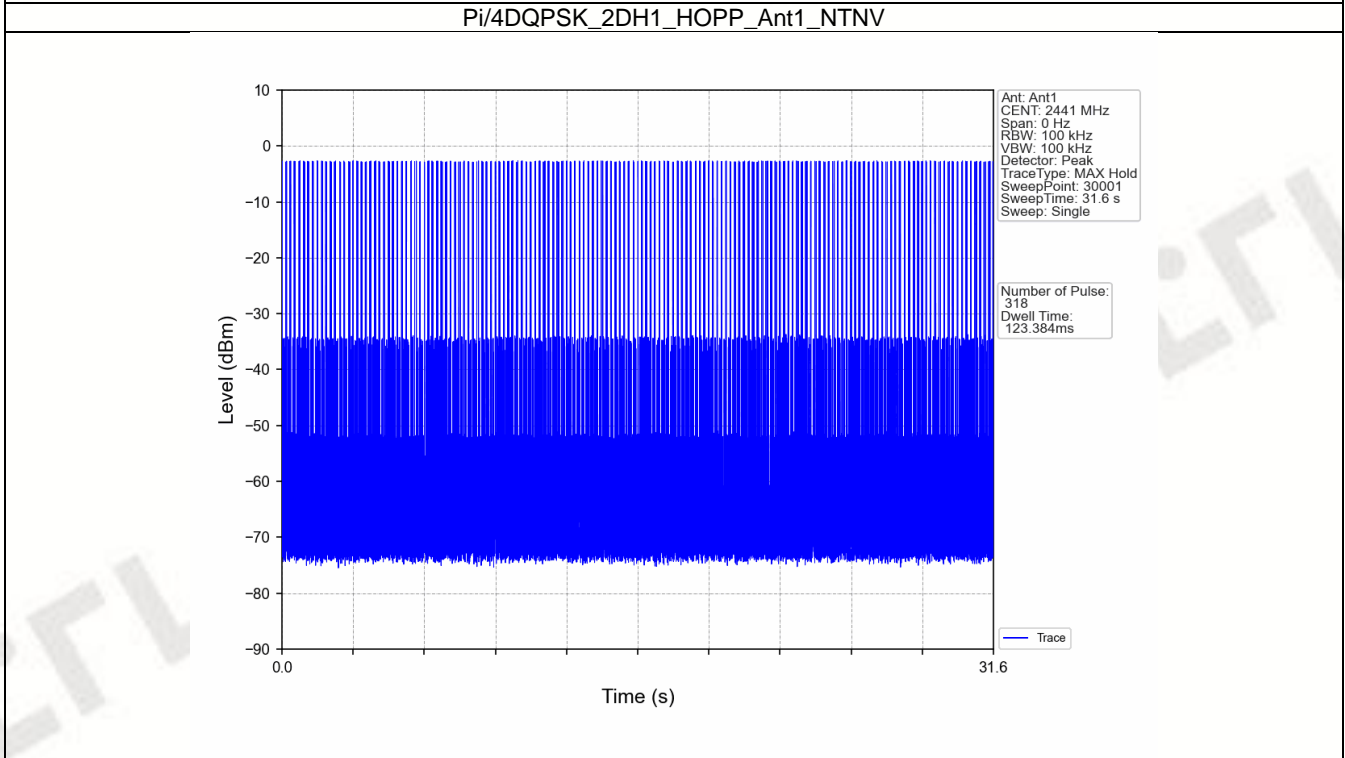
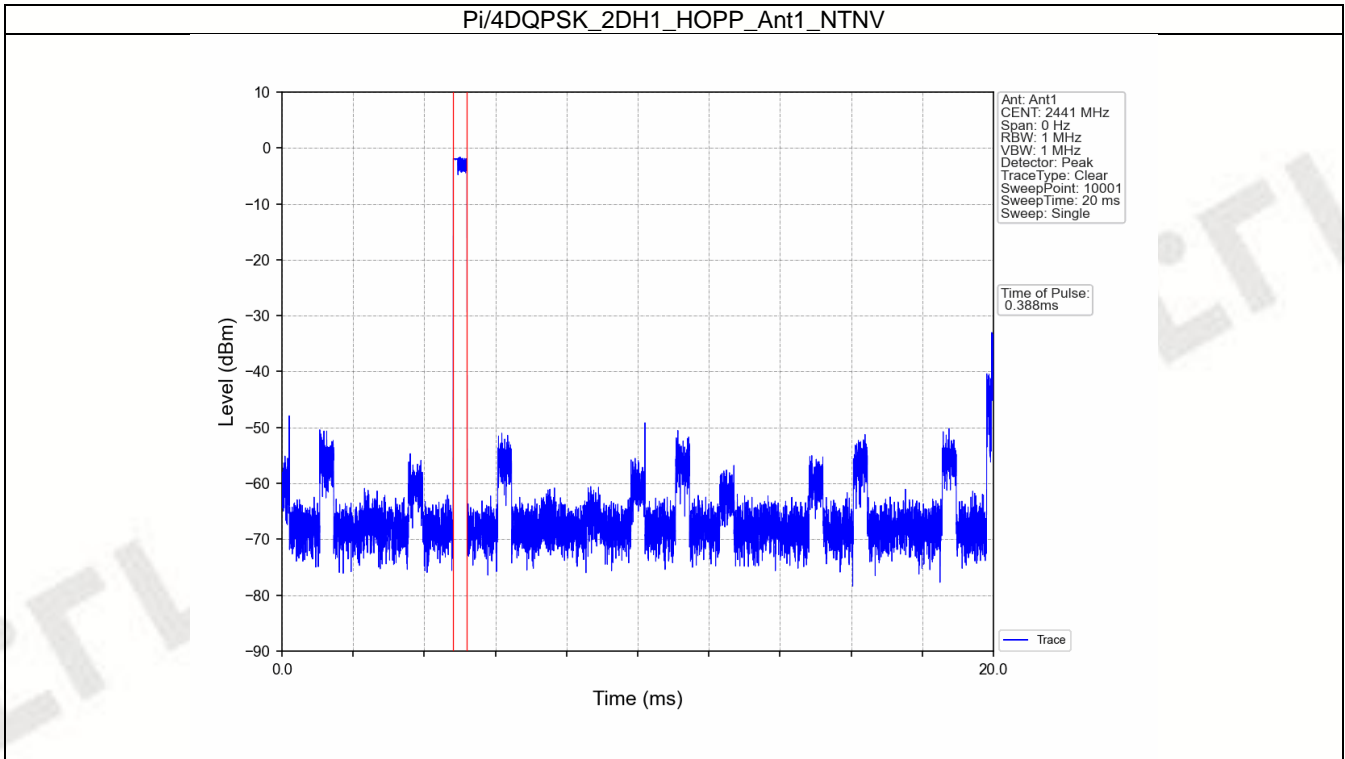


FCCID: 2AU4P-BTS081

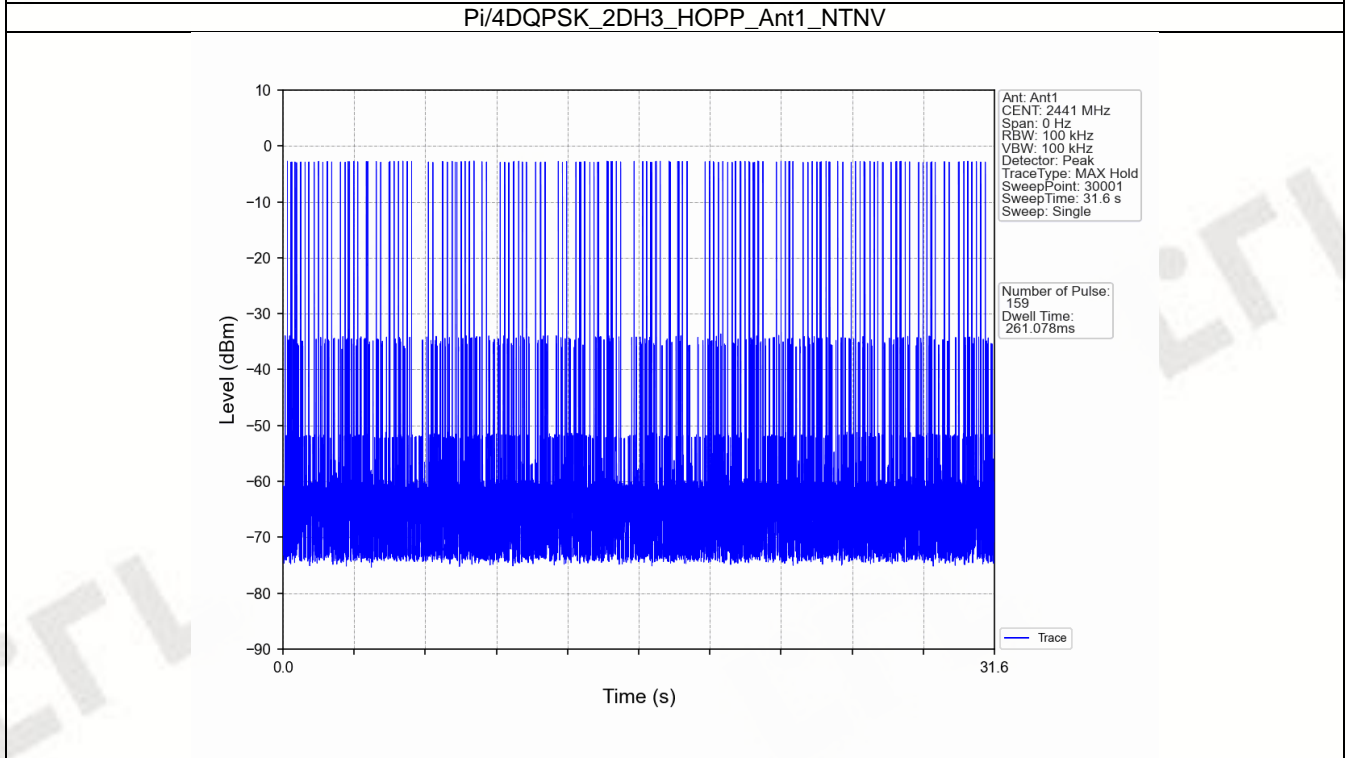
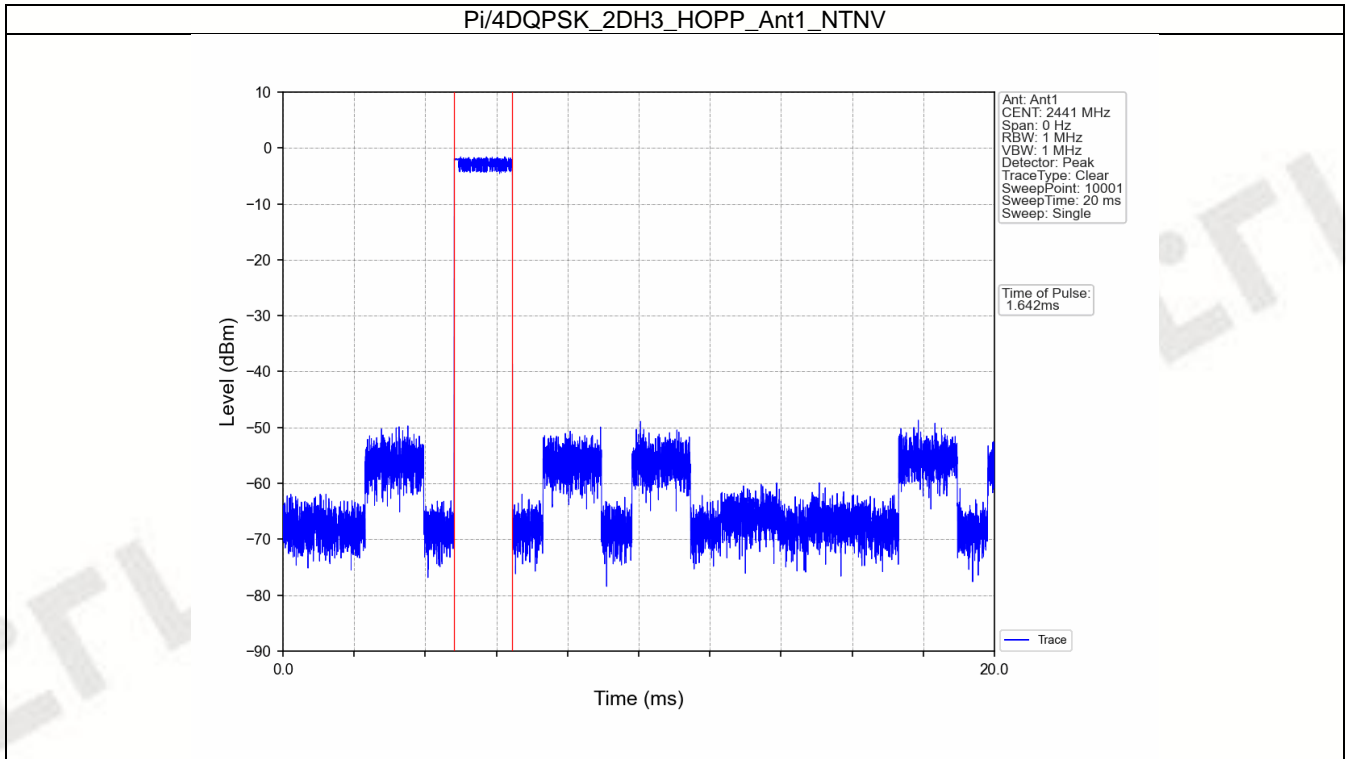


FCCID: 2AU4P-BTS081

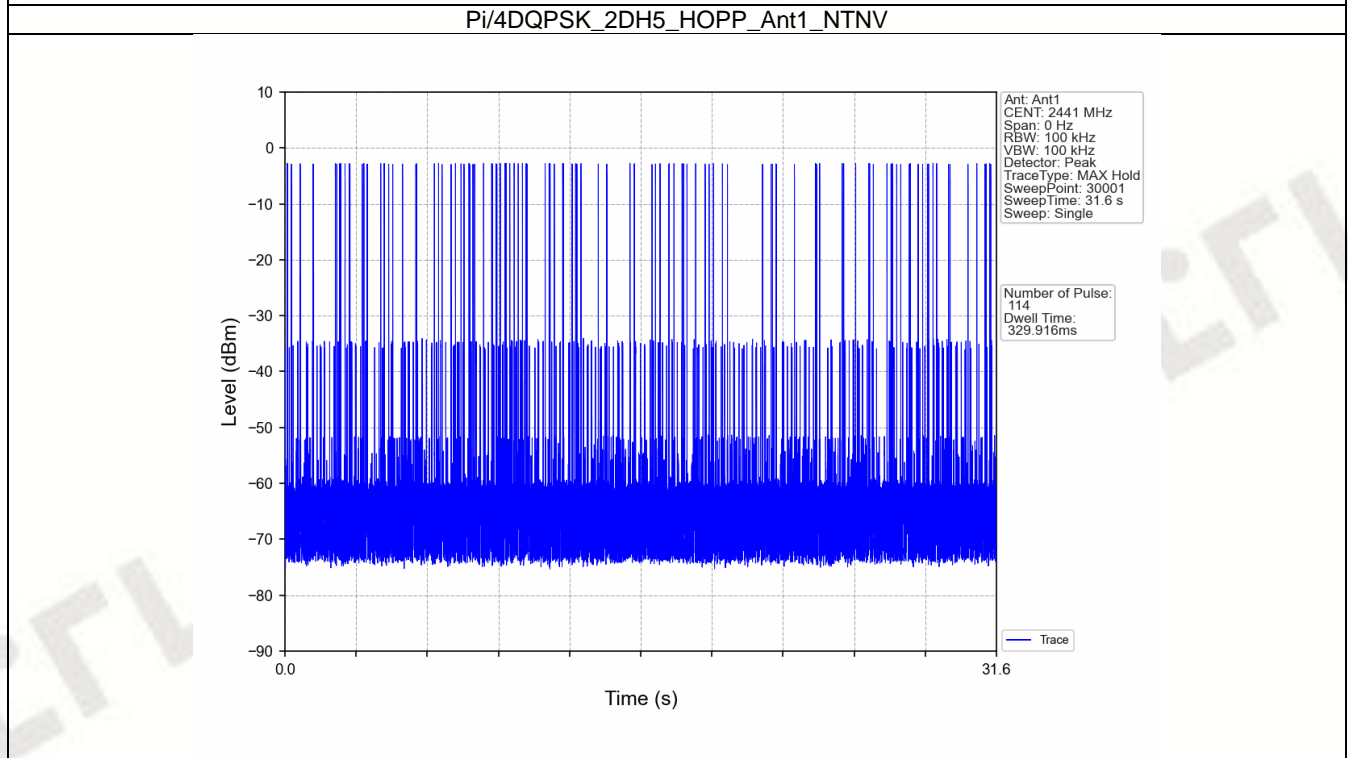
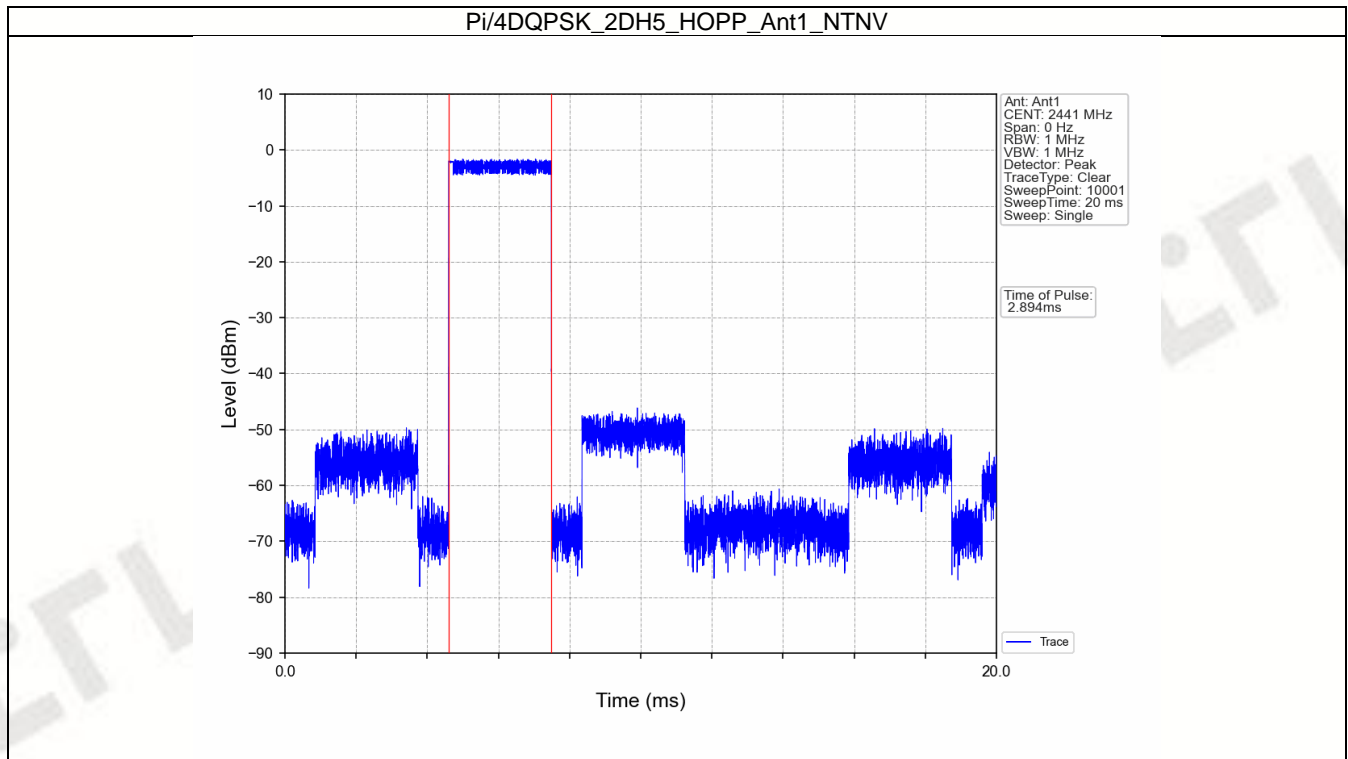


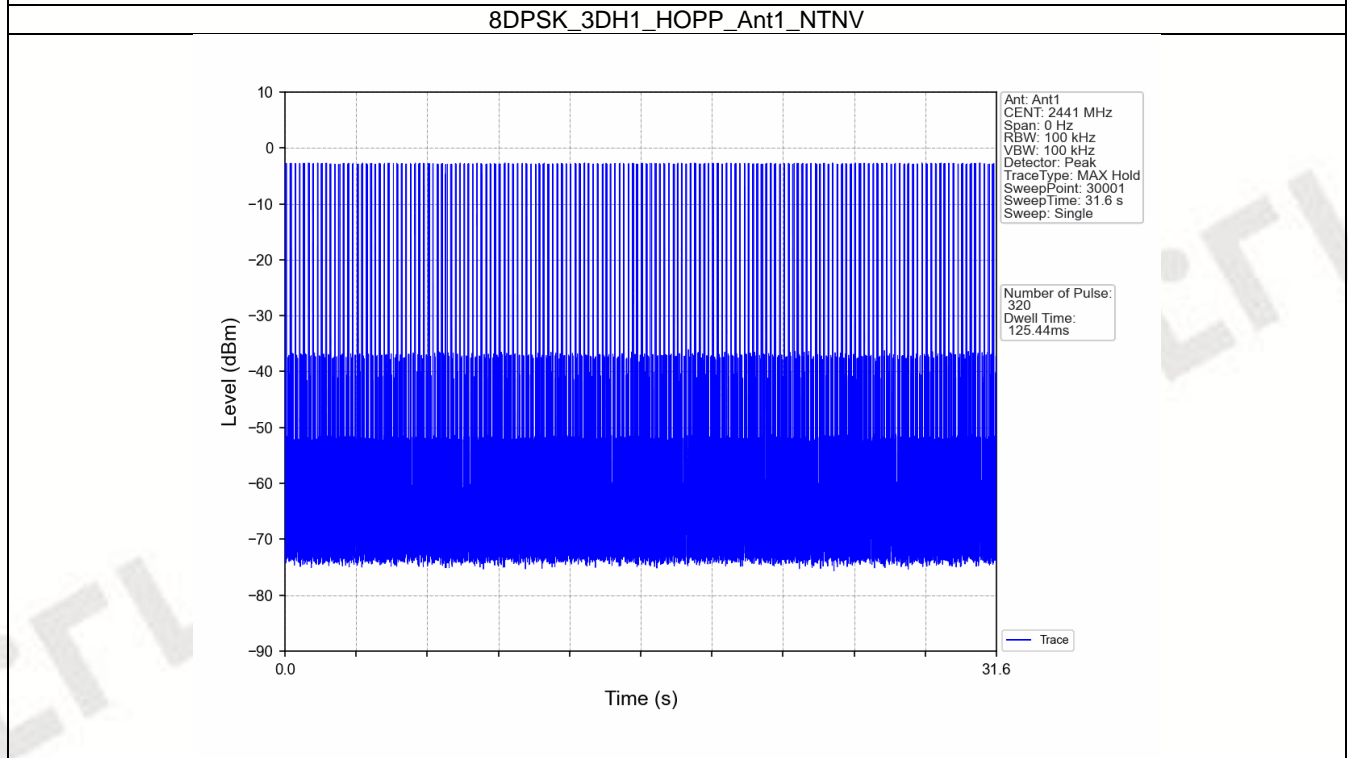
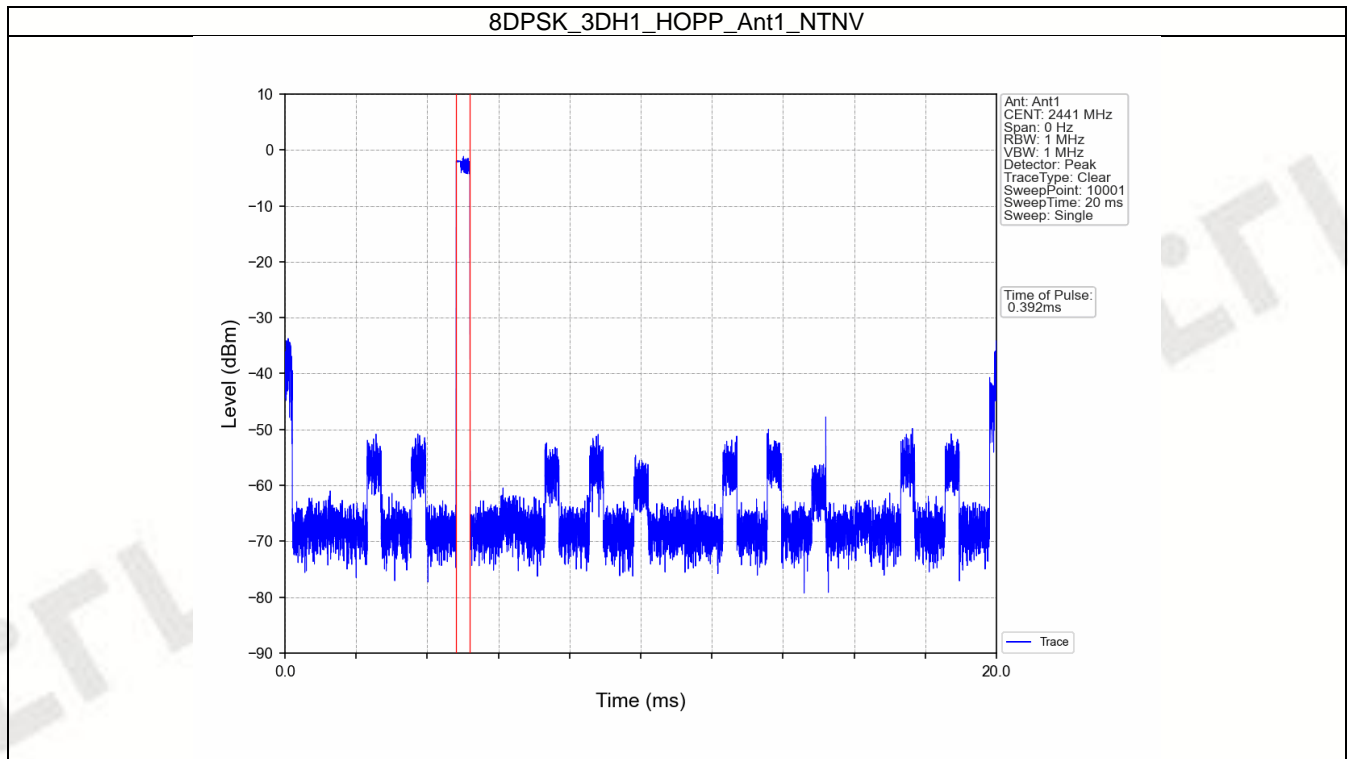


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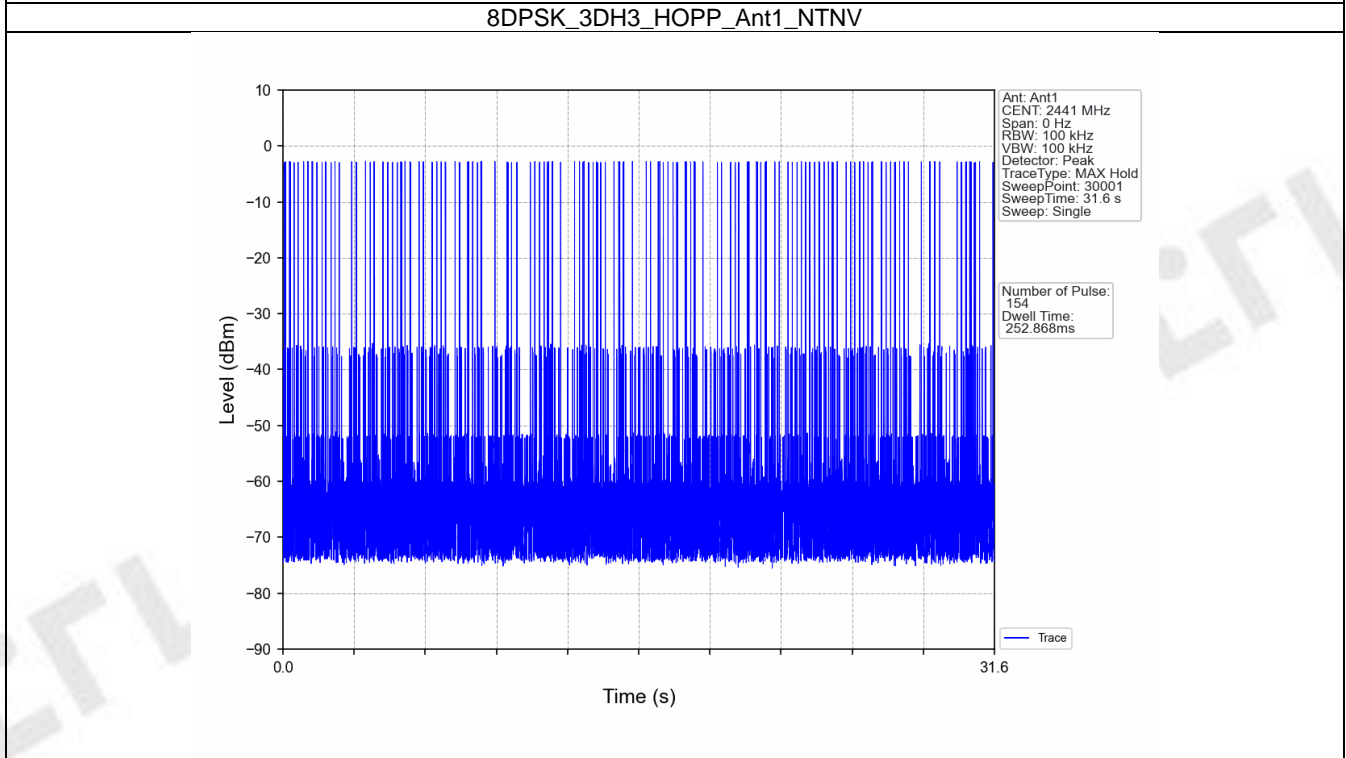
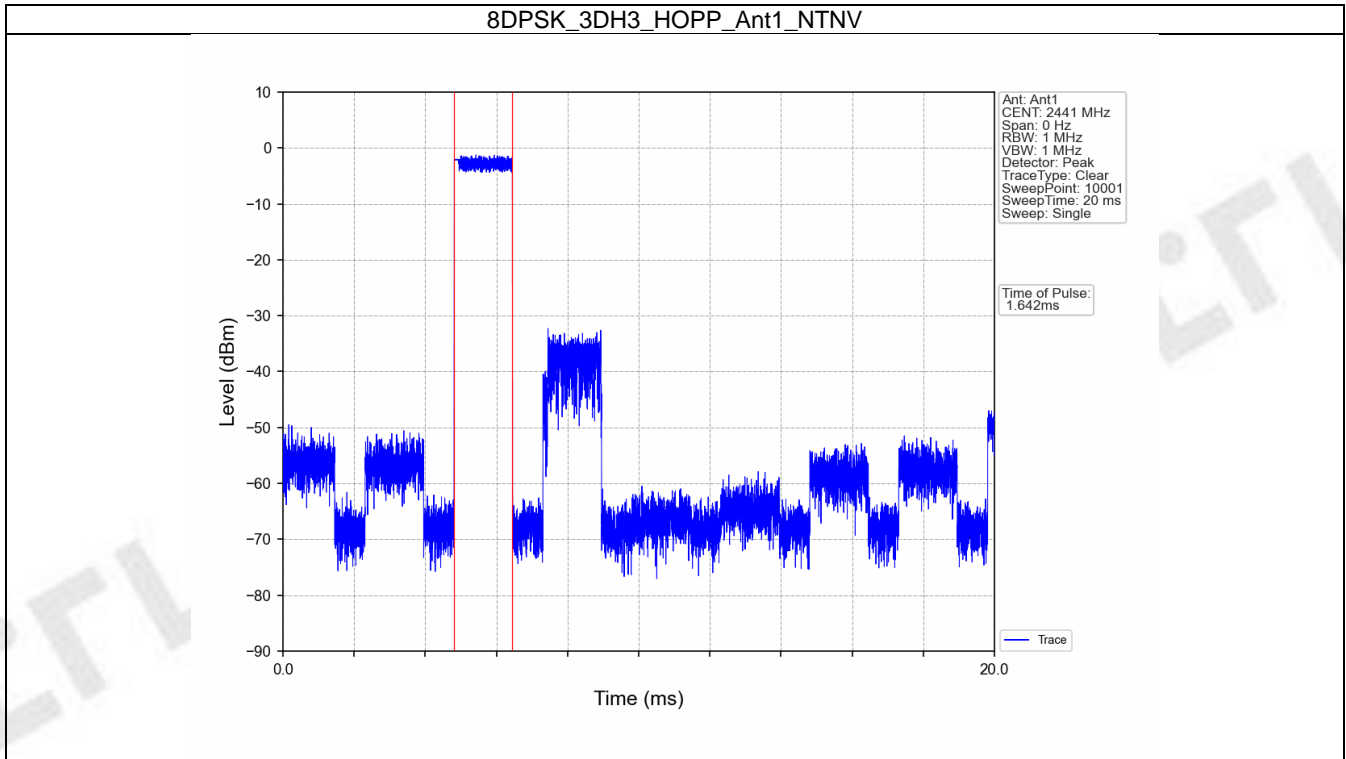




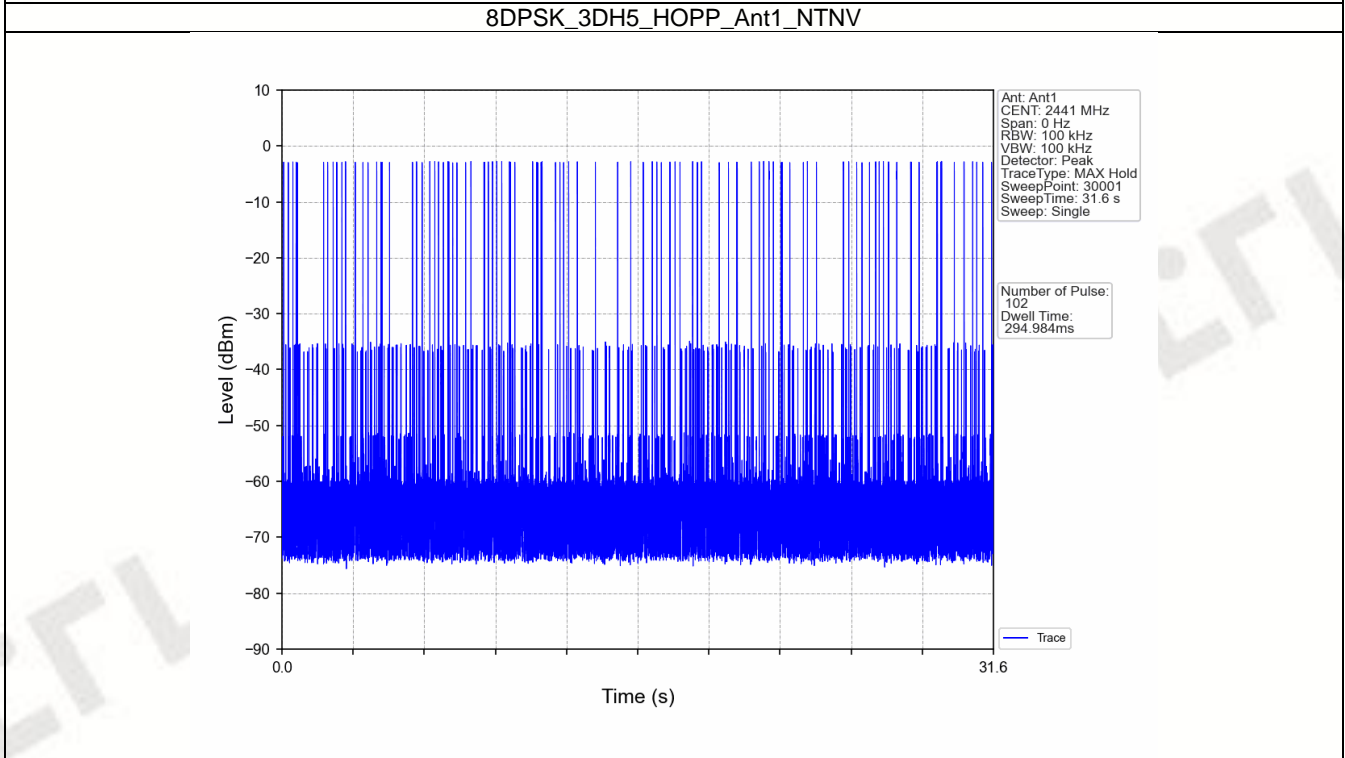
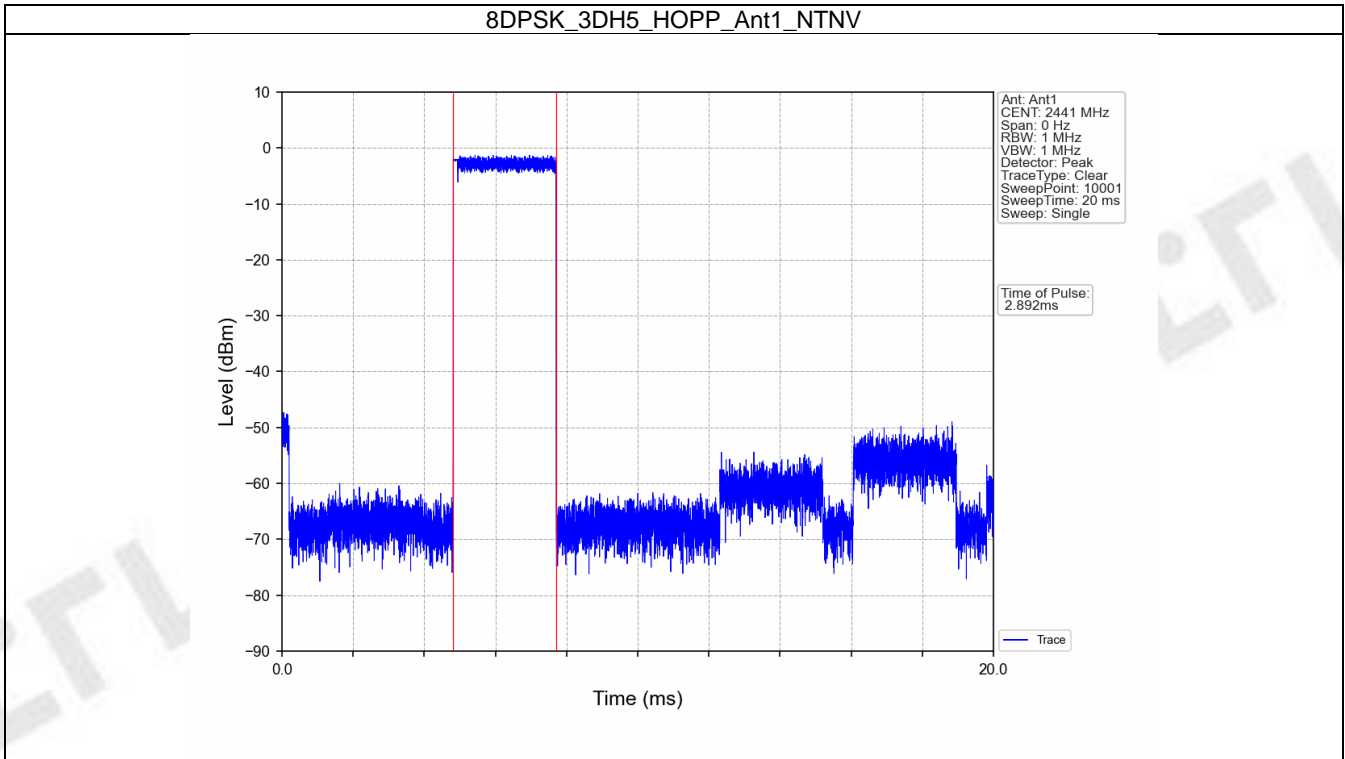




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## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

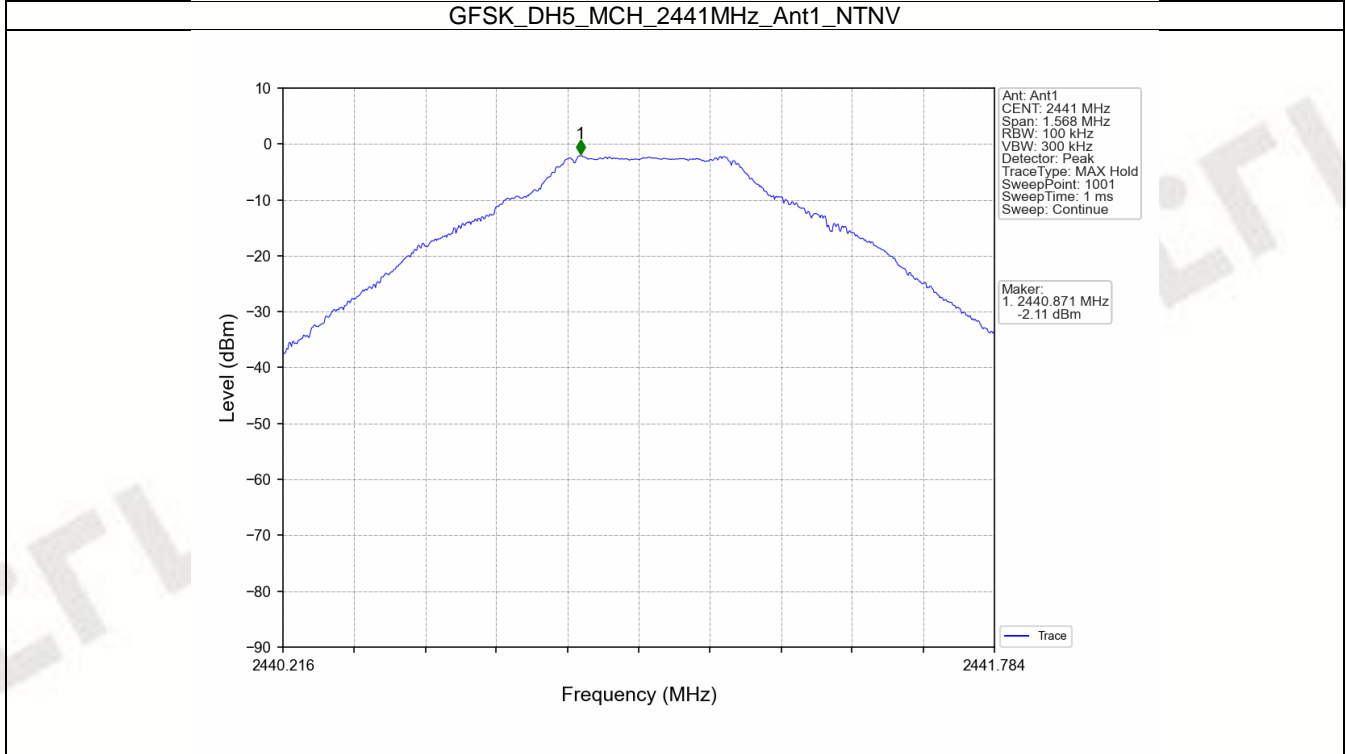
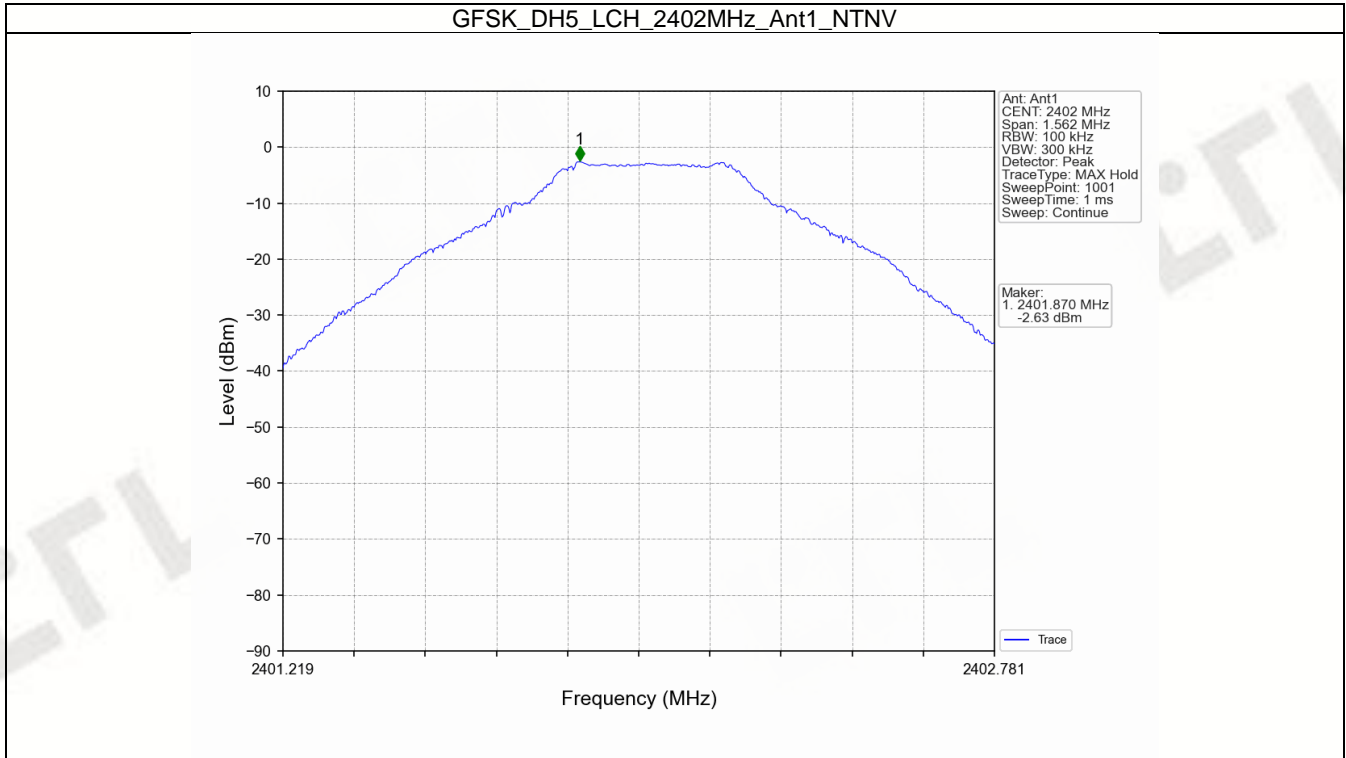
#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-2.63
		2441	DH5	1	-2.11
		2480	DH5	1	-2.49
Pi/4DQPSK	SISO	2402	2DH5	1	-2.58
		2441	2DH5	1	-2.10
		2480	2DH5	1	-2.54
8DPSK	SISO	2402	3DH5	1	-2.61
		2441	3DH5	1	-2.25
		2480	3DH5	1	-2.53

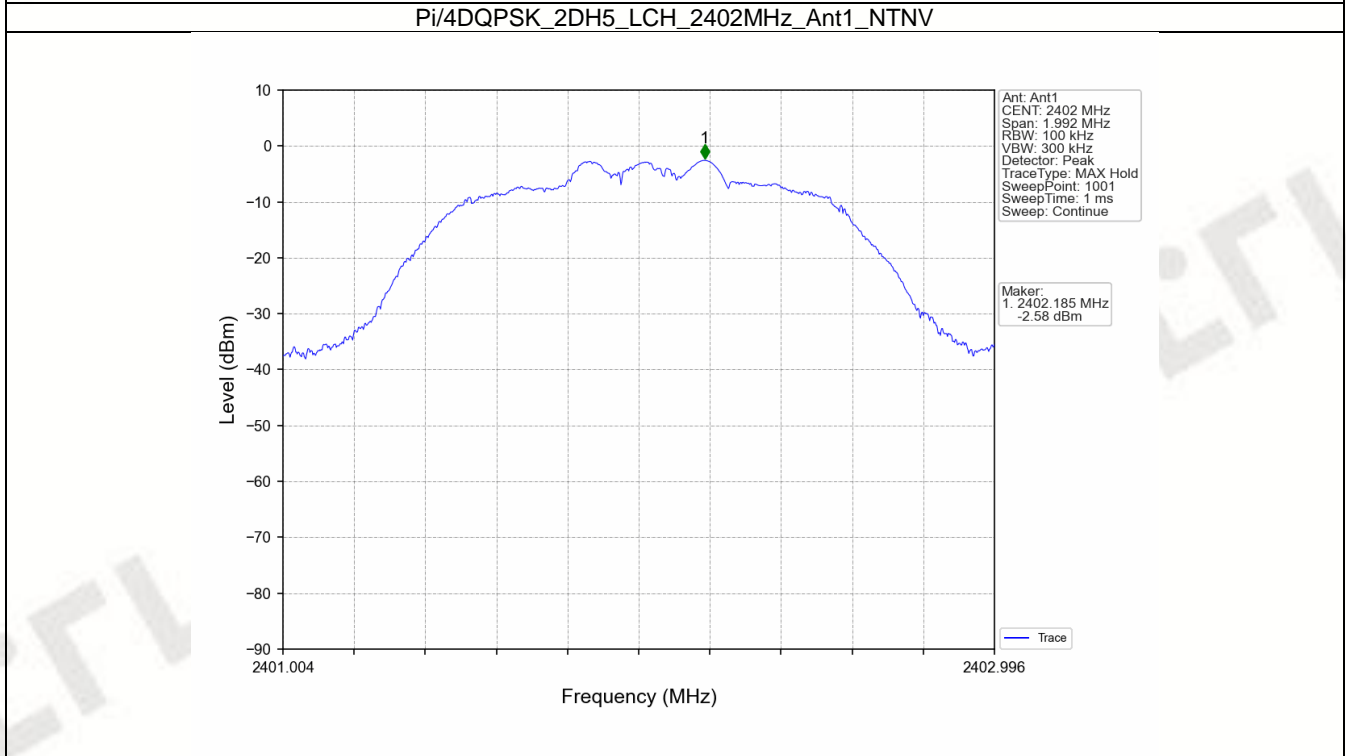
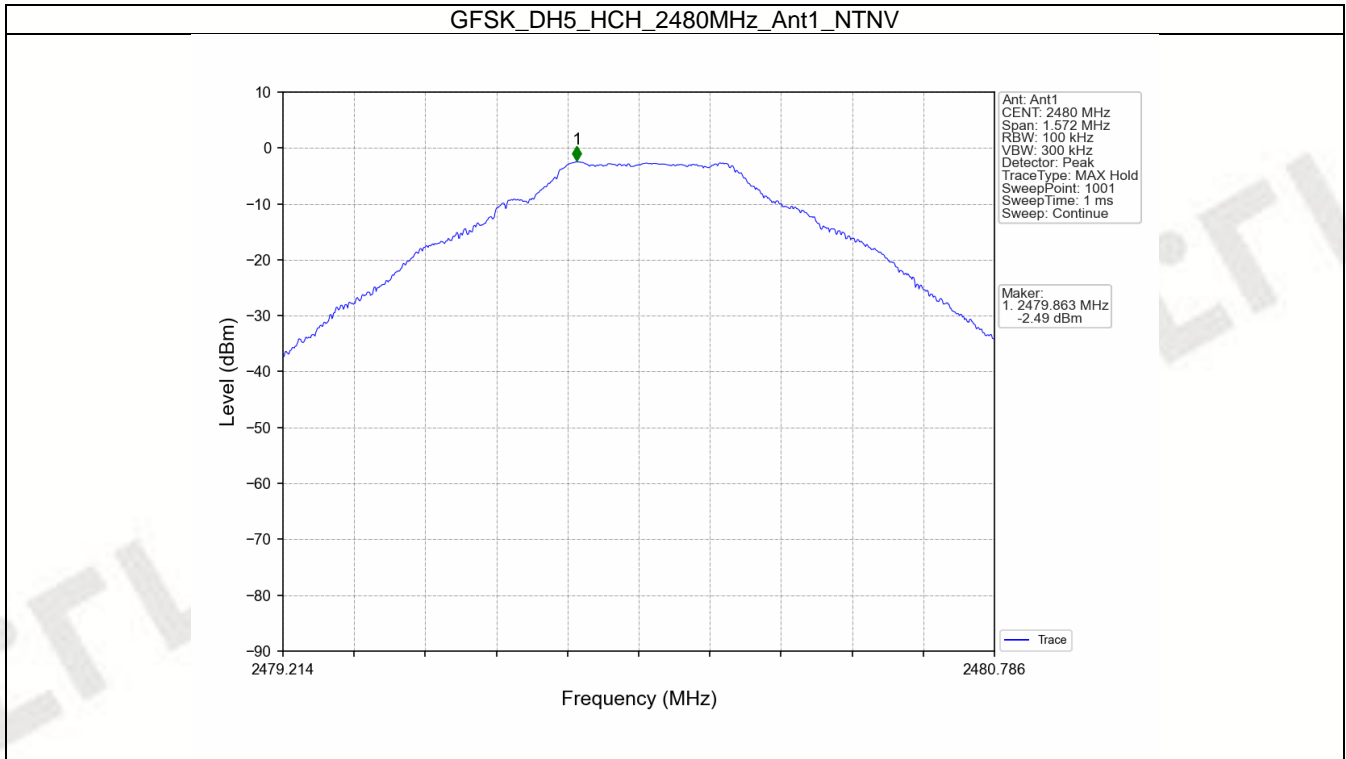
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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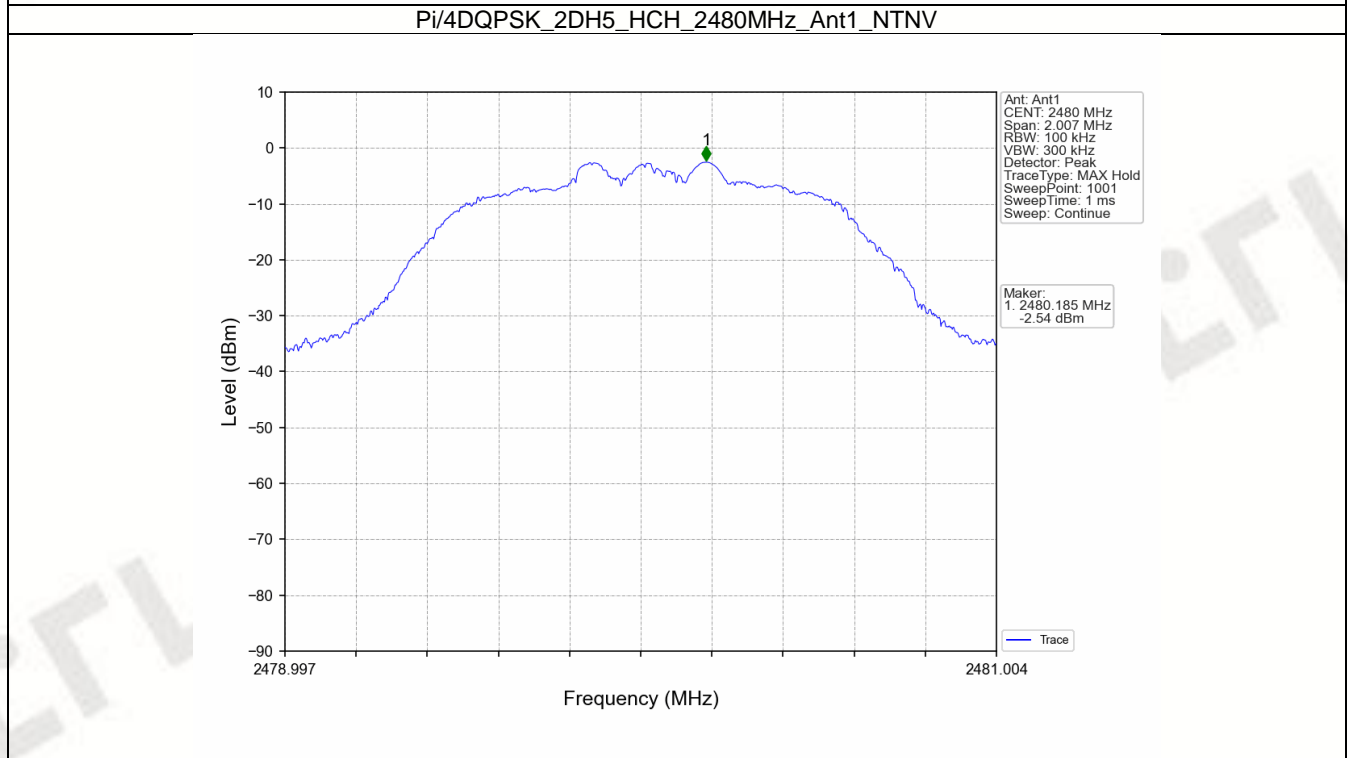
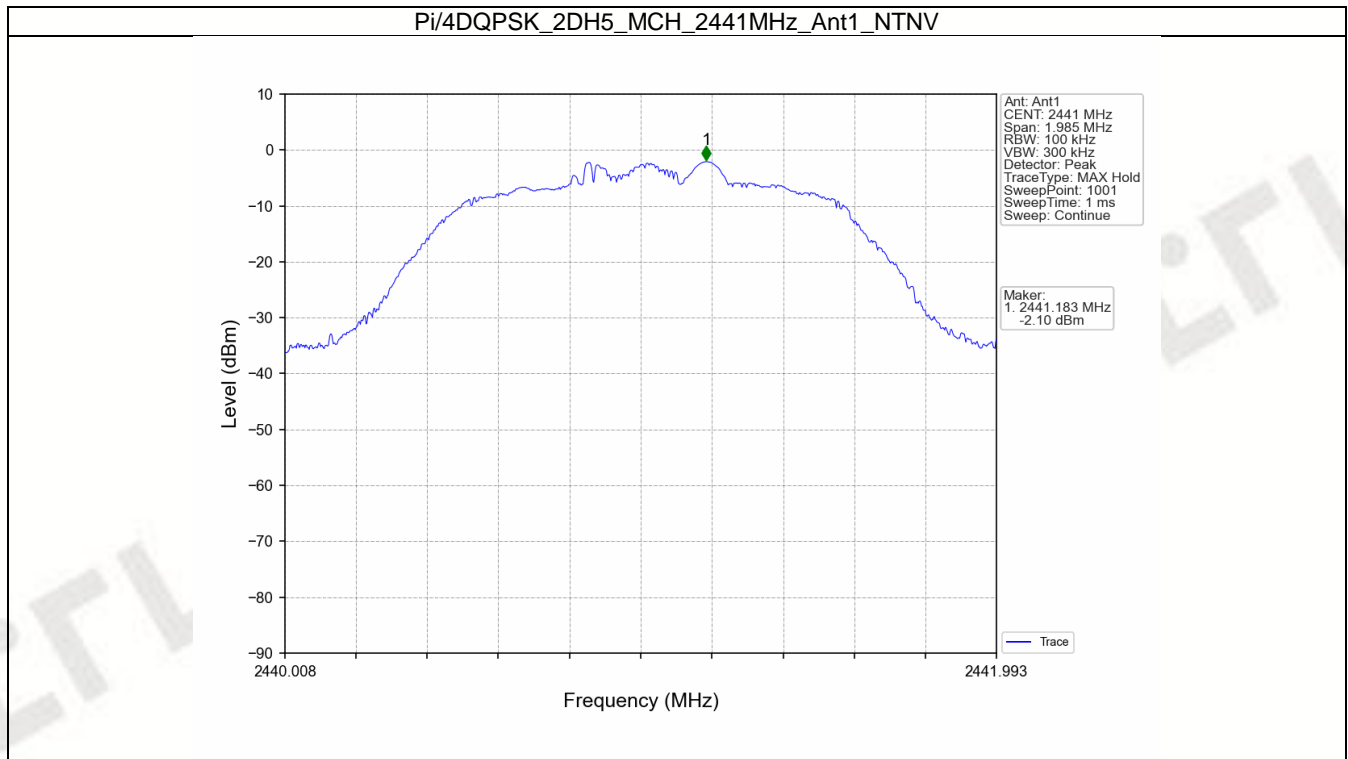
6.1.2 Test Graph



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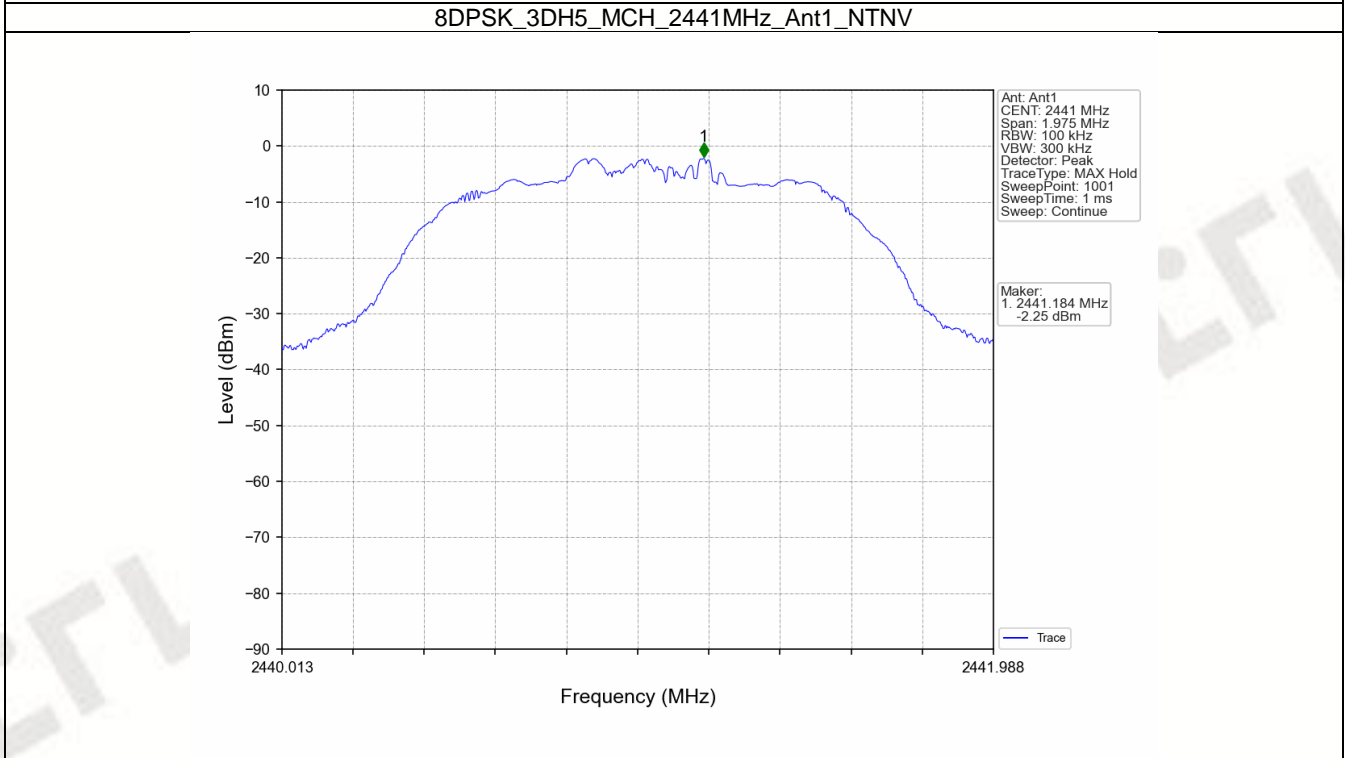
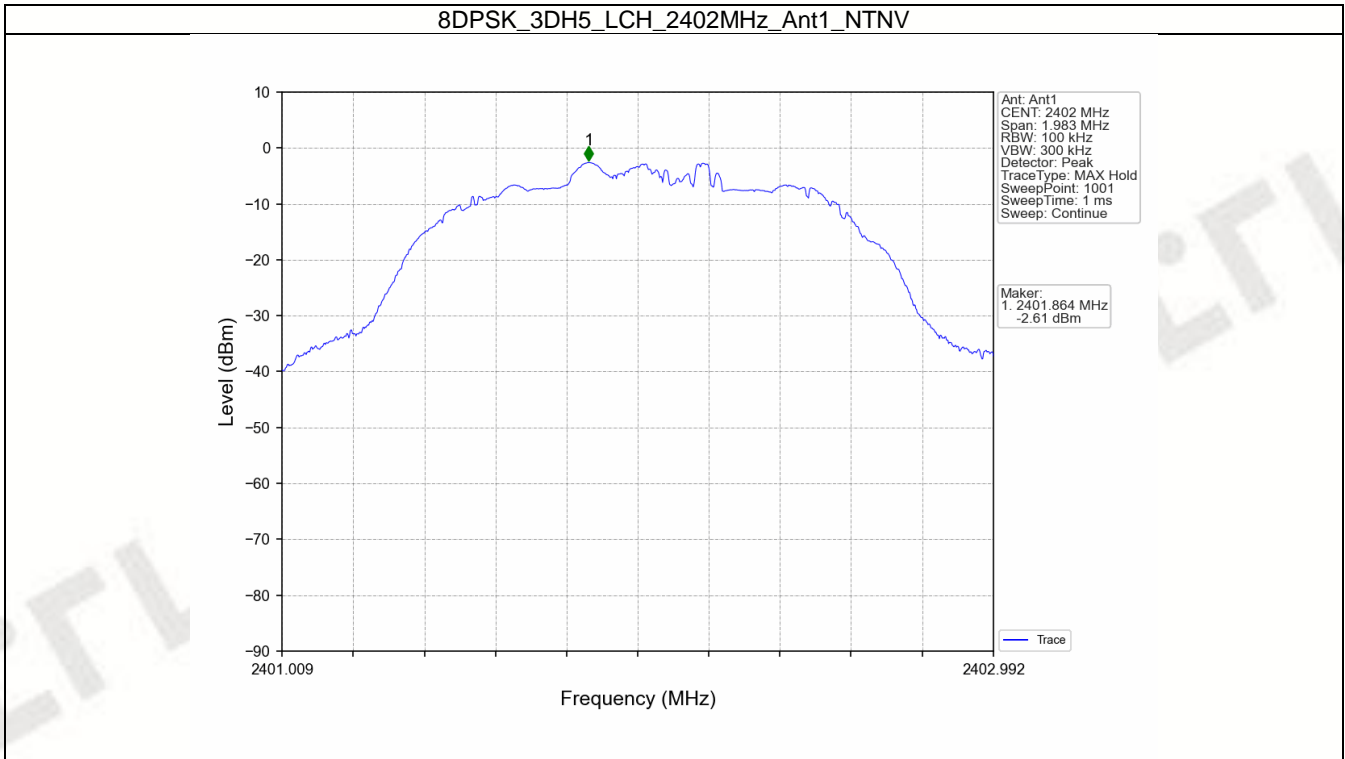


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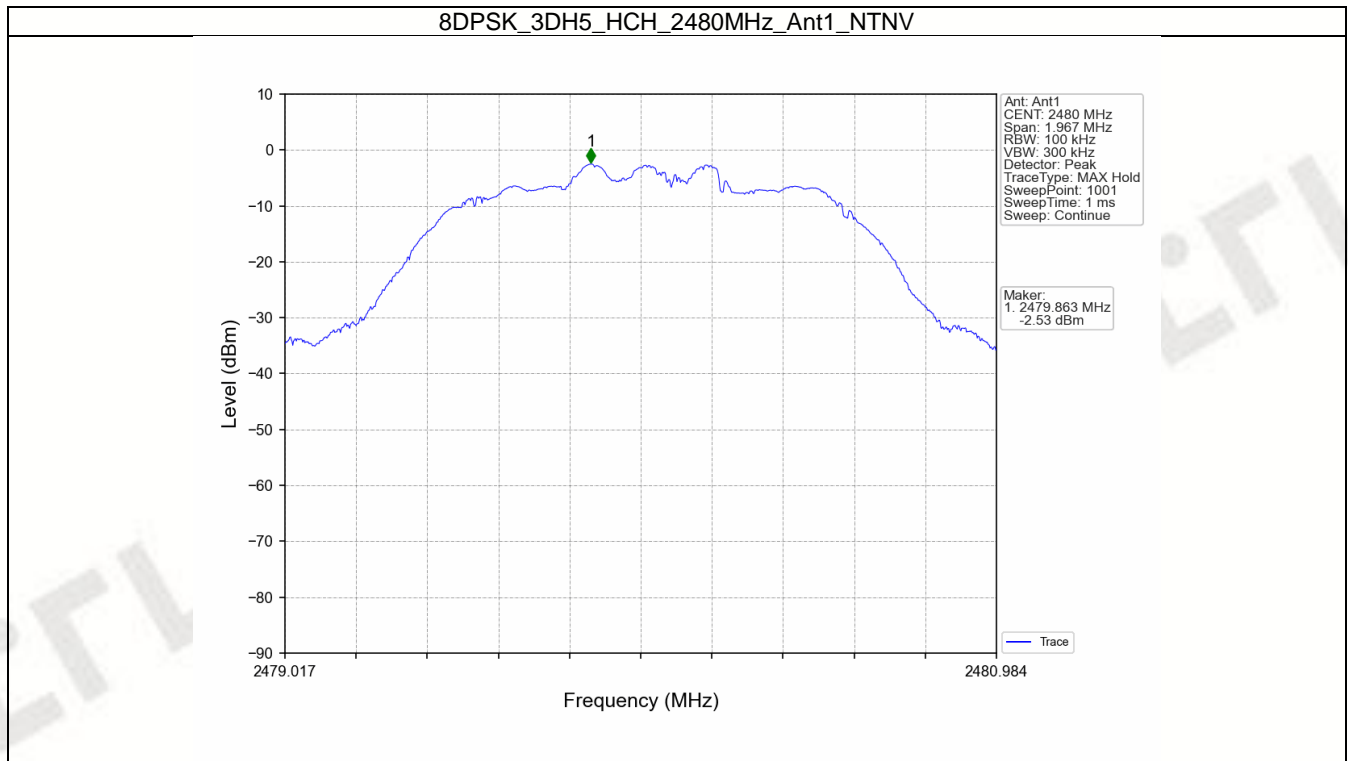




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## 6.2 CSE

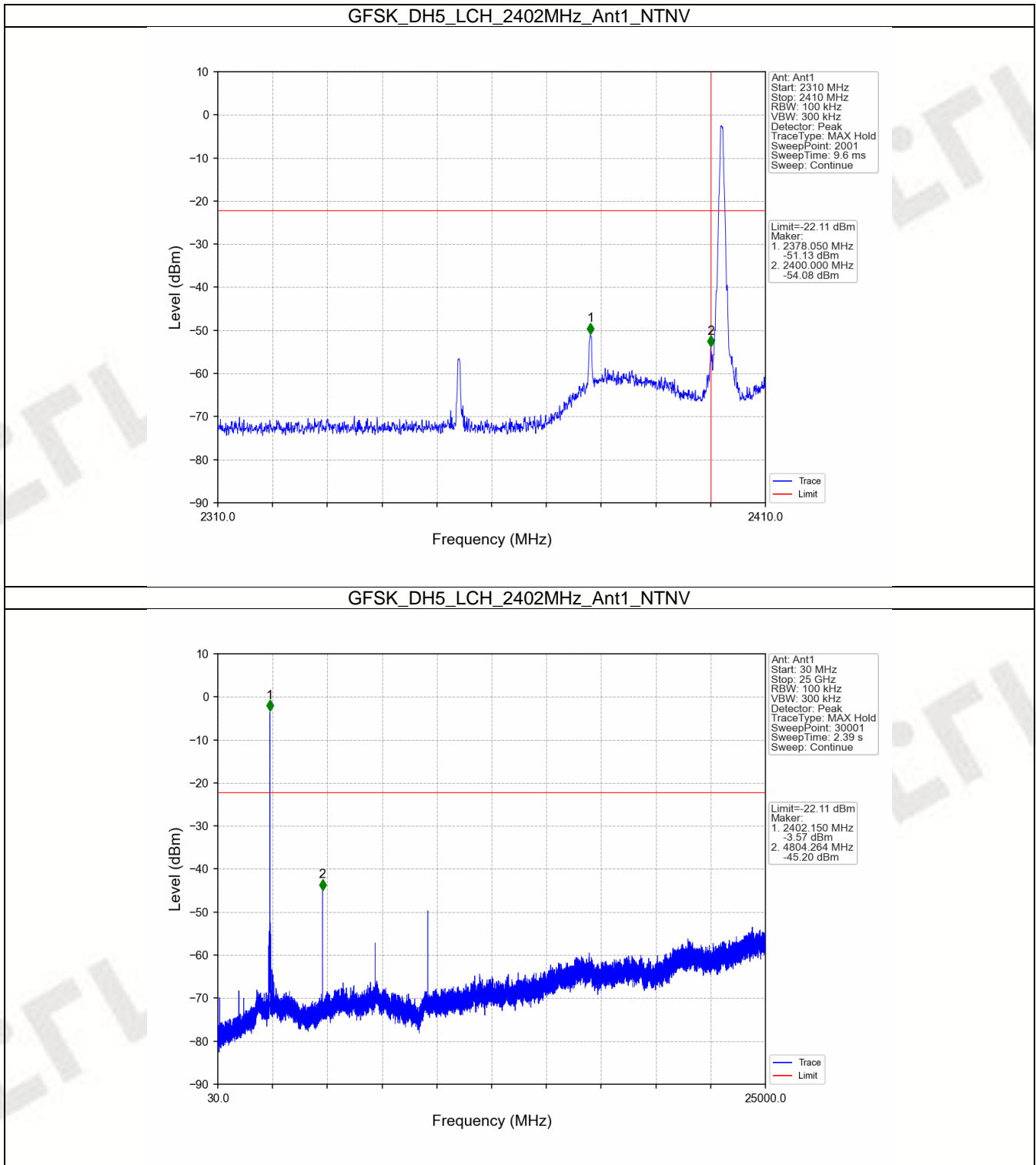
### 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.11	-22.11	Pass
		2441	DH5	1	-2.11	-22.11	Pass
		2480	DH5	1	-2.11	-22.11	Pass
		HOPP	DH5	1	-2.11	-22.11	Pass
					-2.11	-22.11	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-2.10	-22.10	Pass
		2441	2DH5	1	-2.10	-22.10	Pass
		2480	2DH5	1	-2.10	-22.10	Pass
		HOPP	2DH5	1	-2.10	-22.10	Pass
					-2.10	-22.10	Pass
8DPSK	SISO	2402	3DH5	1	-2.25	-22.25	Pass
		2441	3DH5	1	-2.25	-22.25	Pass
		2480	3DH5	1	-2.25	-22.25	Pass
		HOPP	3DH5	1	-2.25	-22.25	Pass
					-2.25	-22.25	Pass

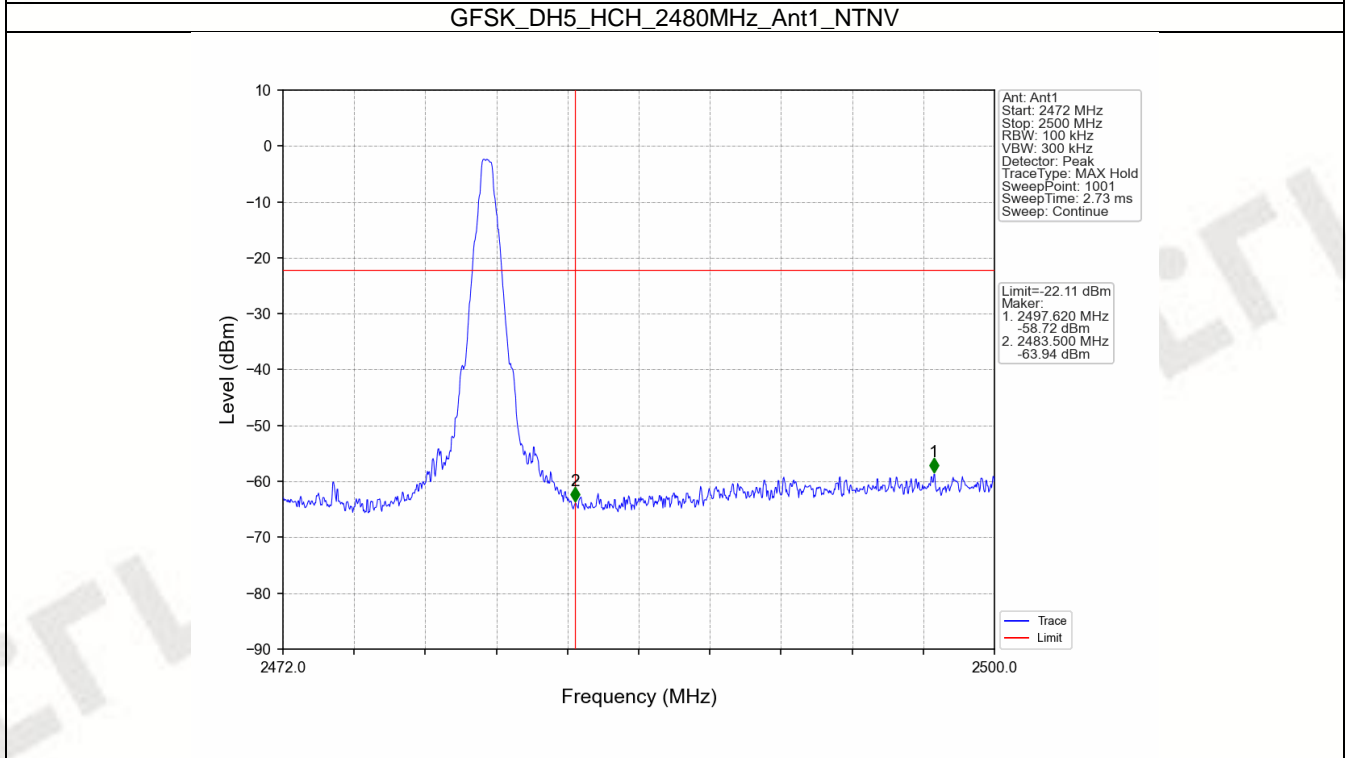
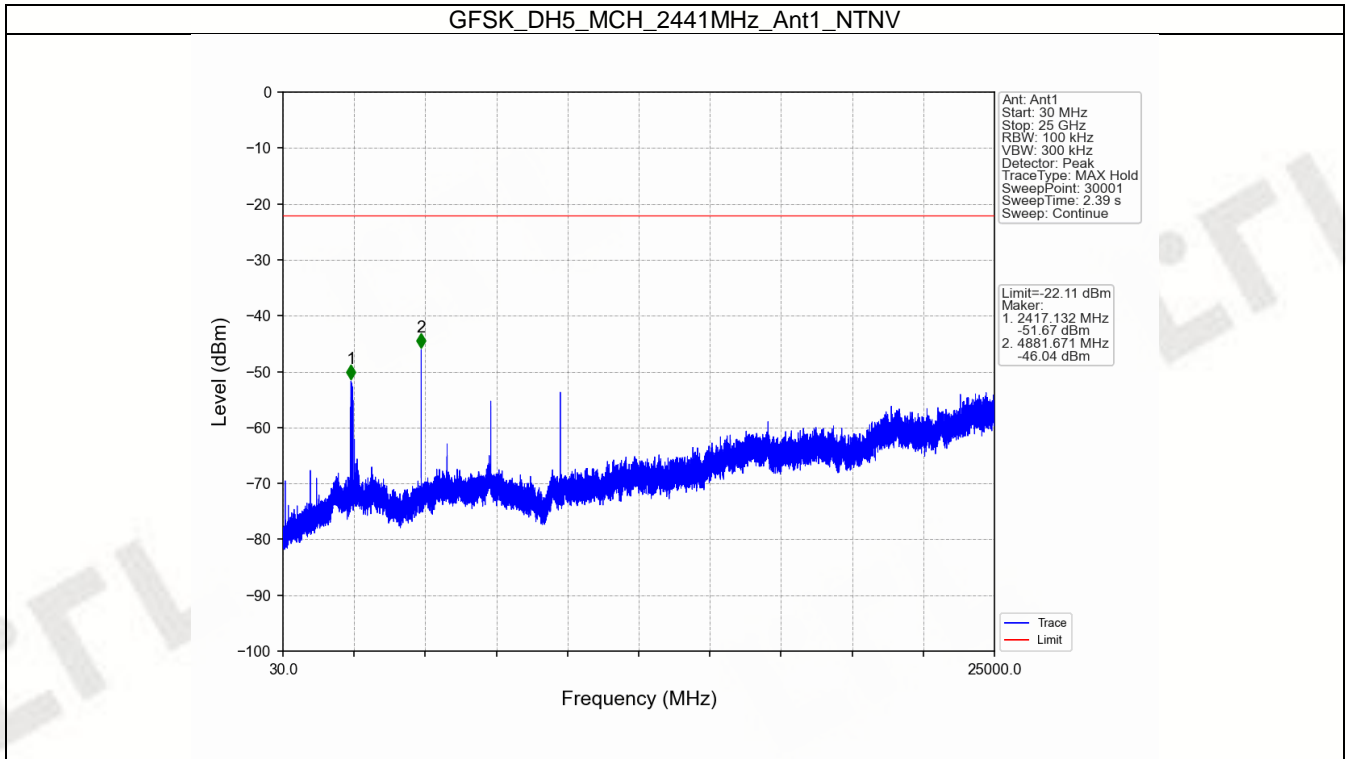
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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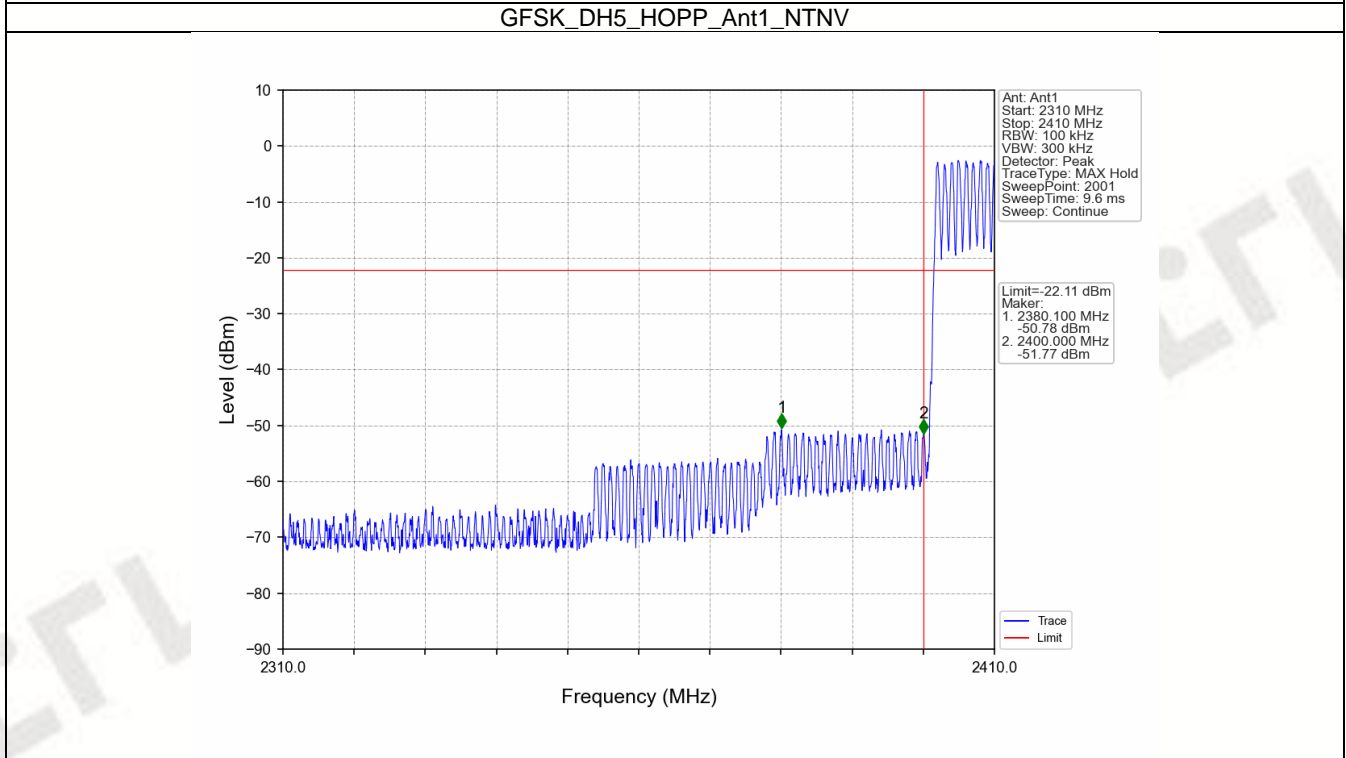
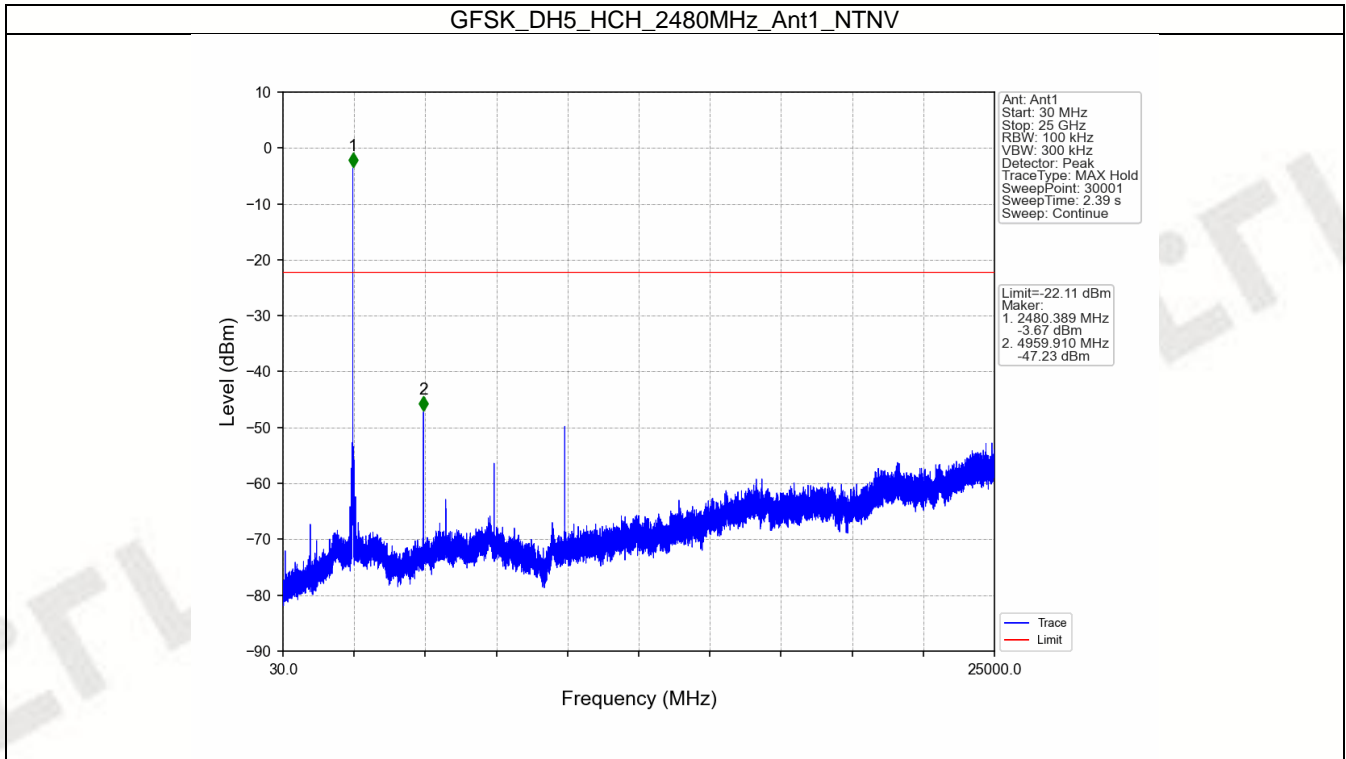
### 6.2.2 Test Graph



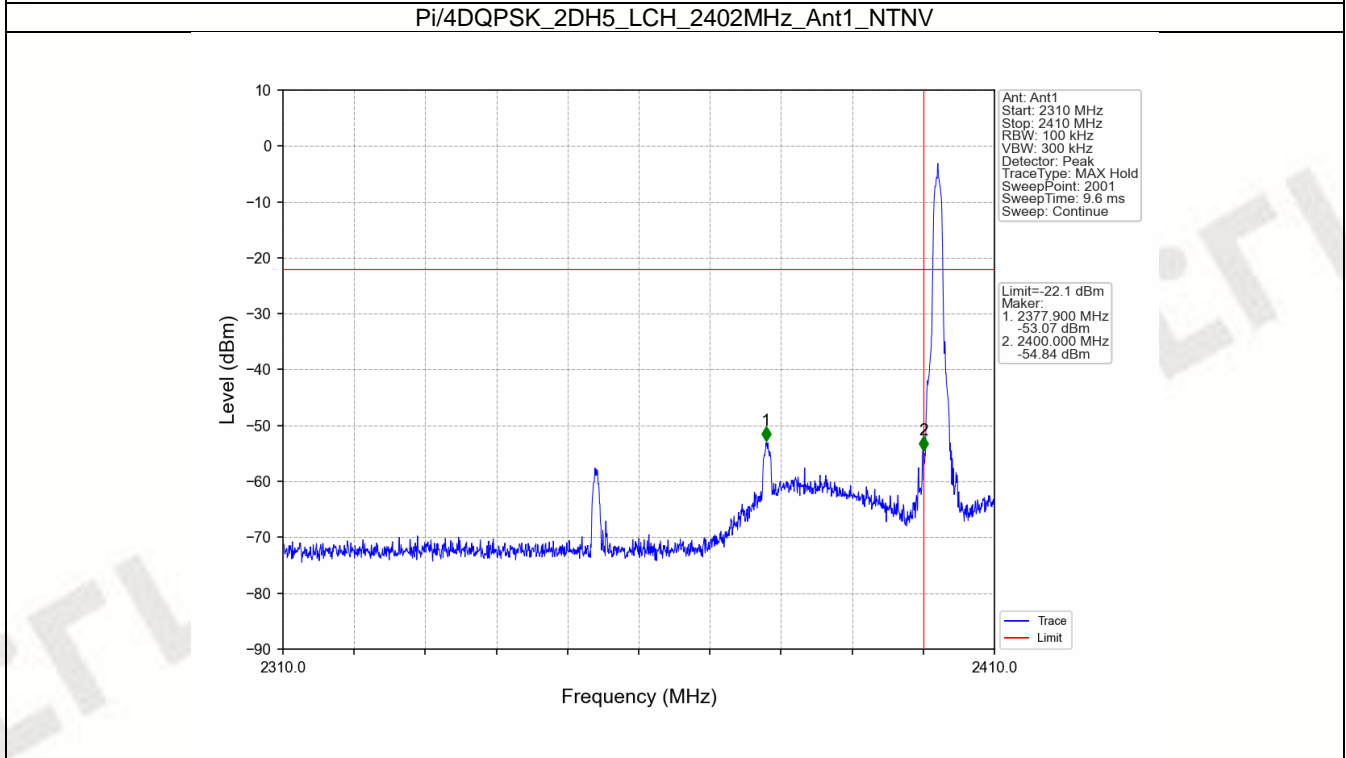
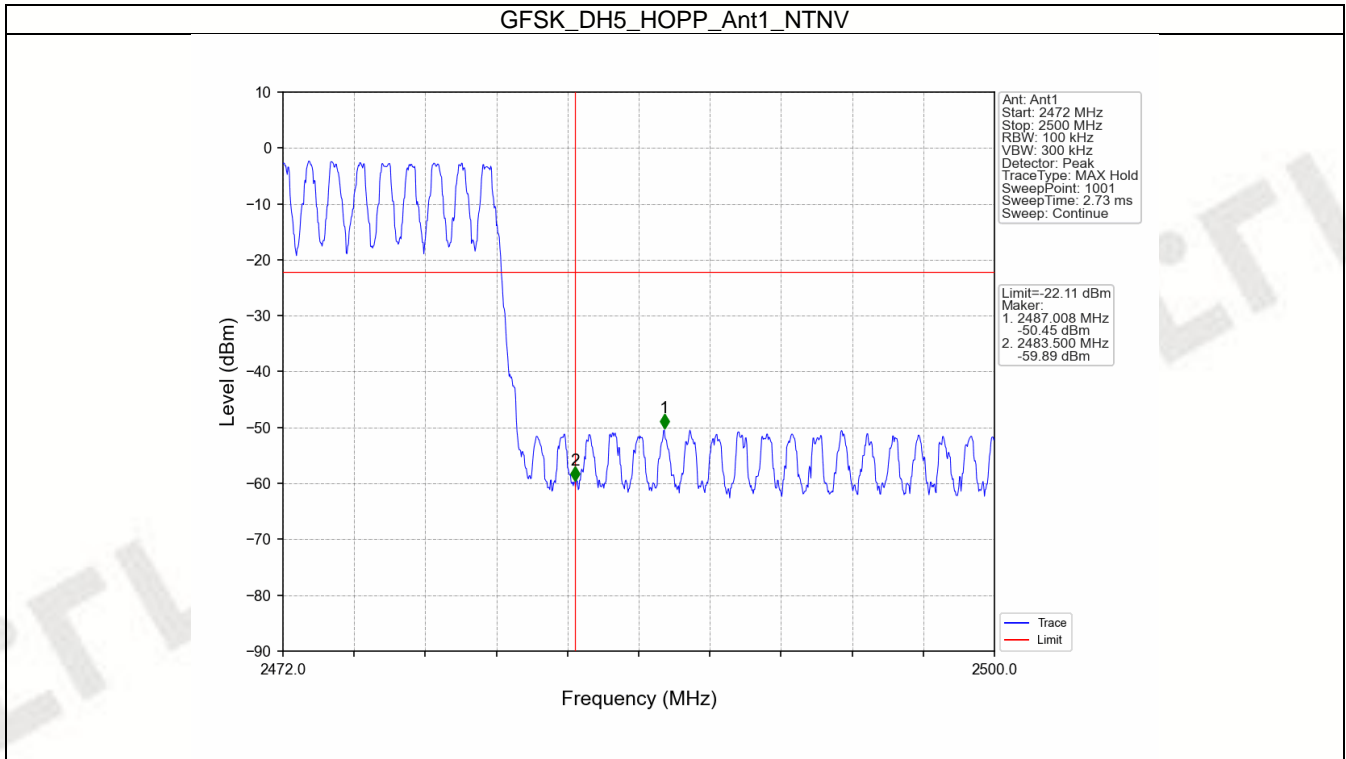
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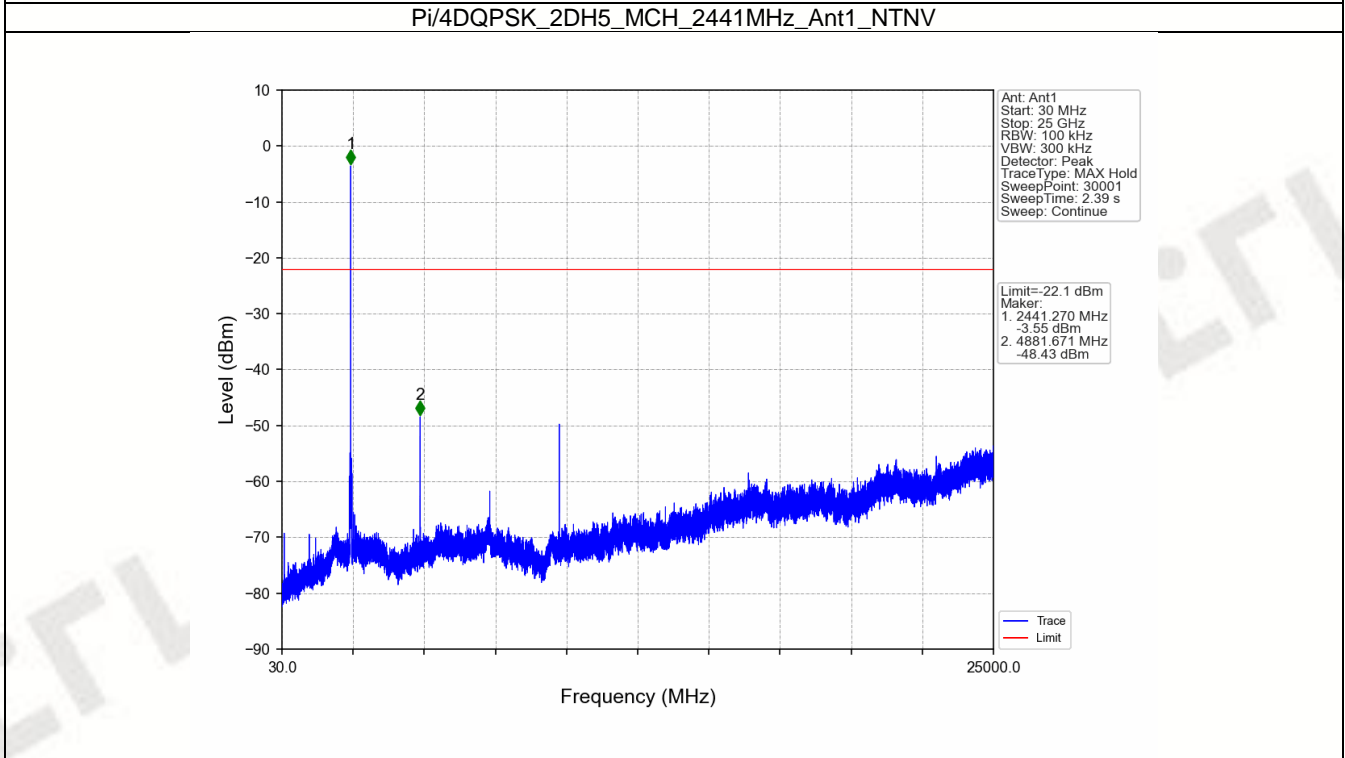
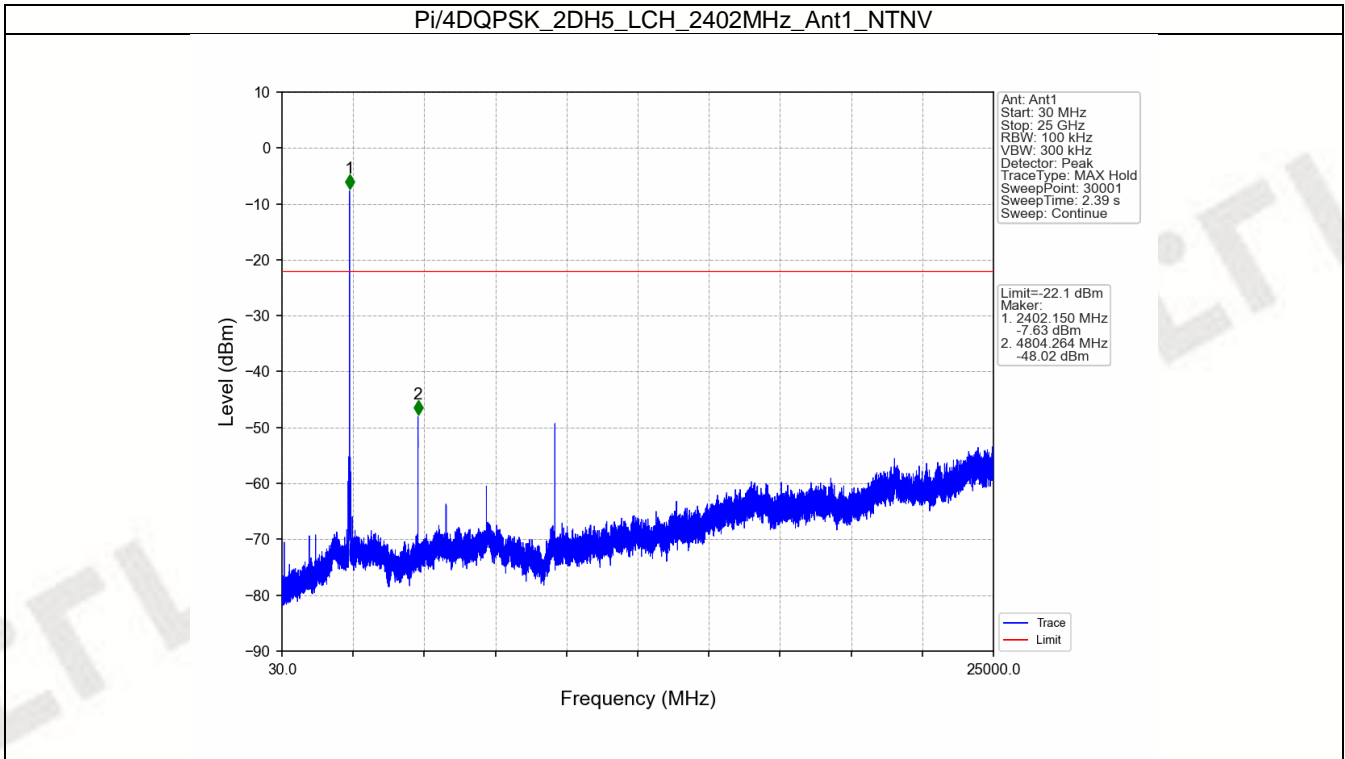
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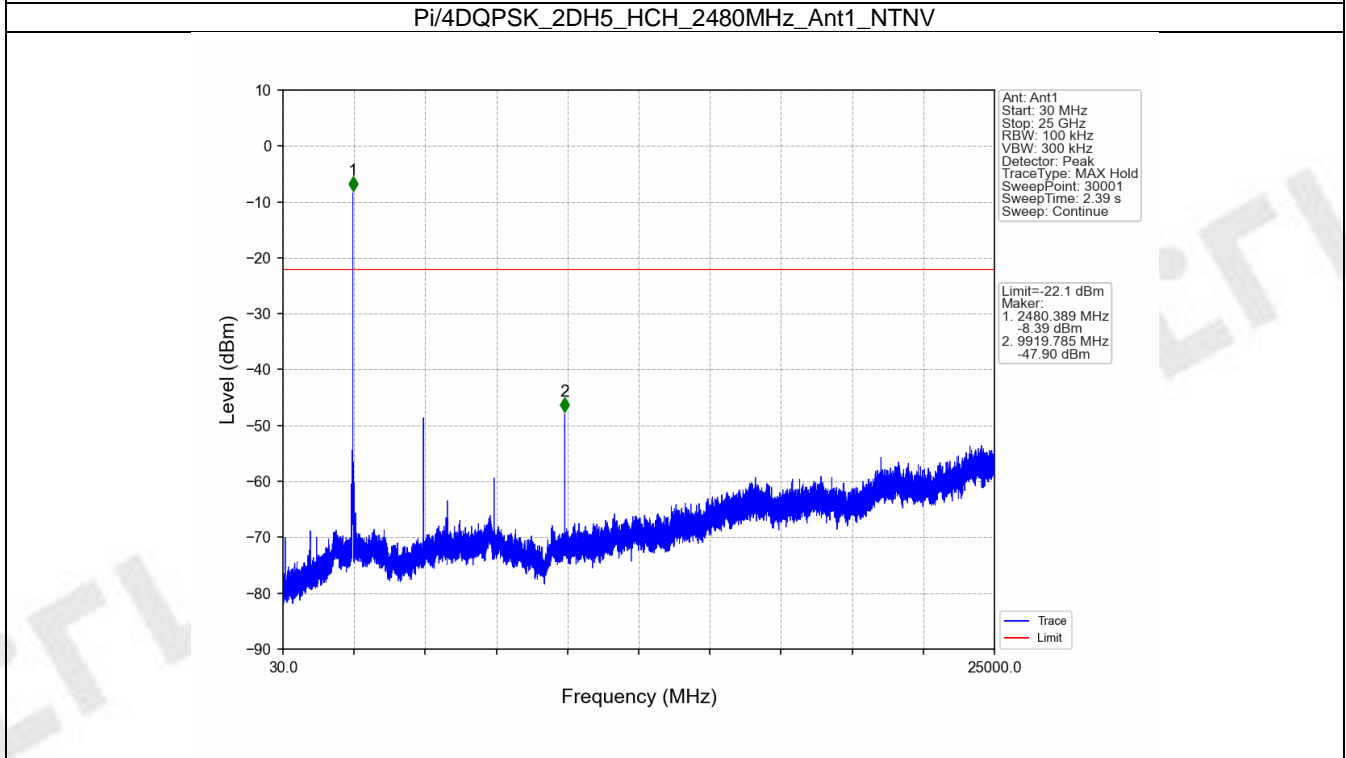
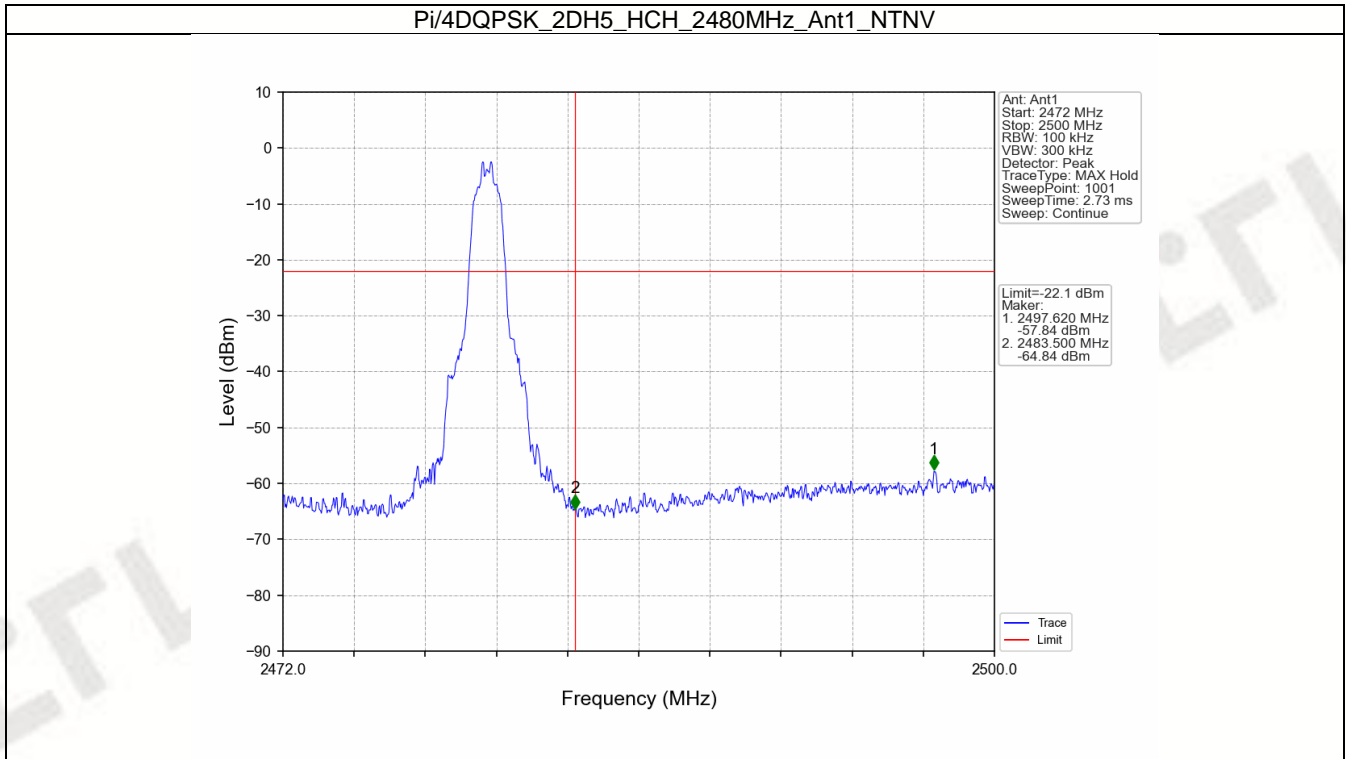


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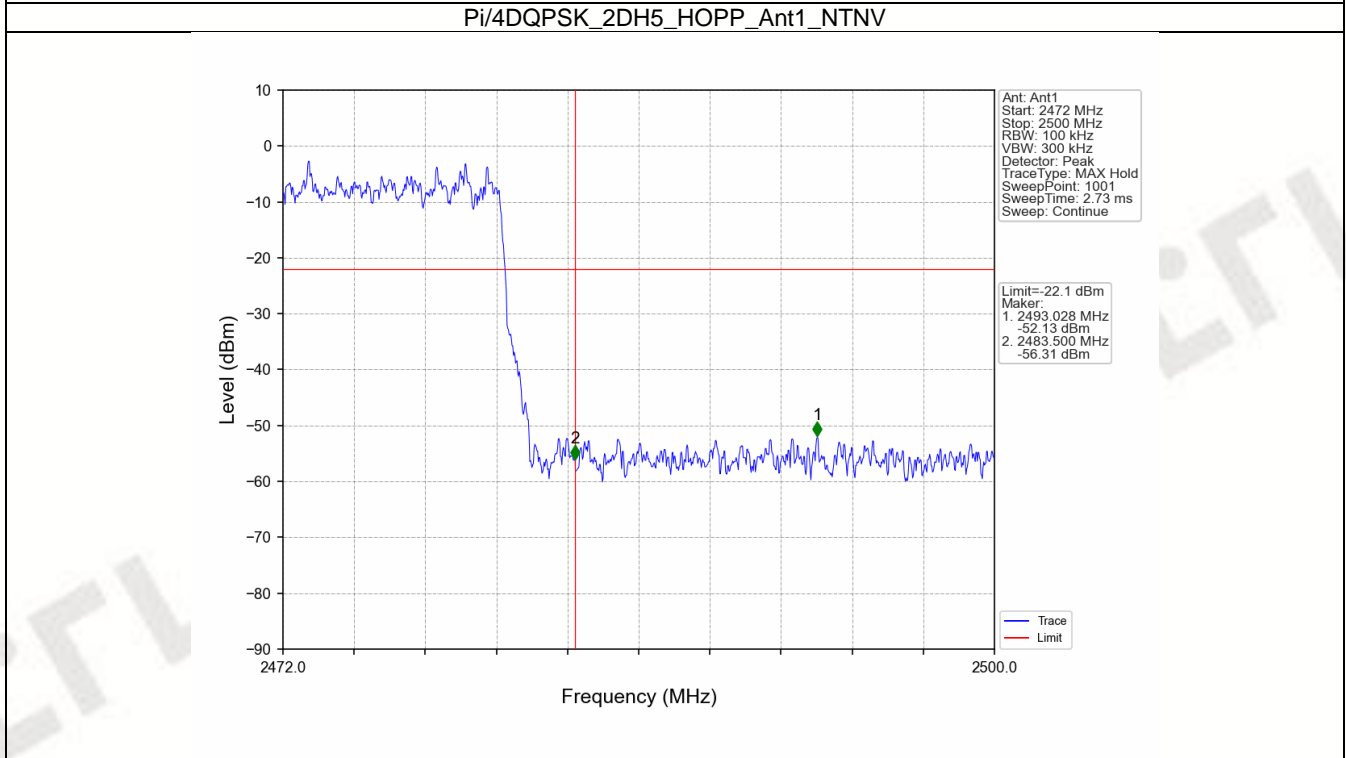
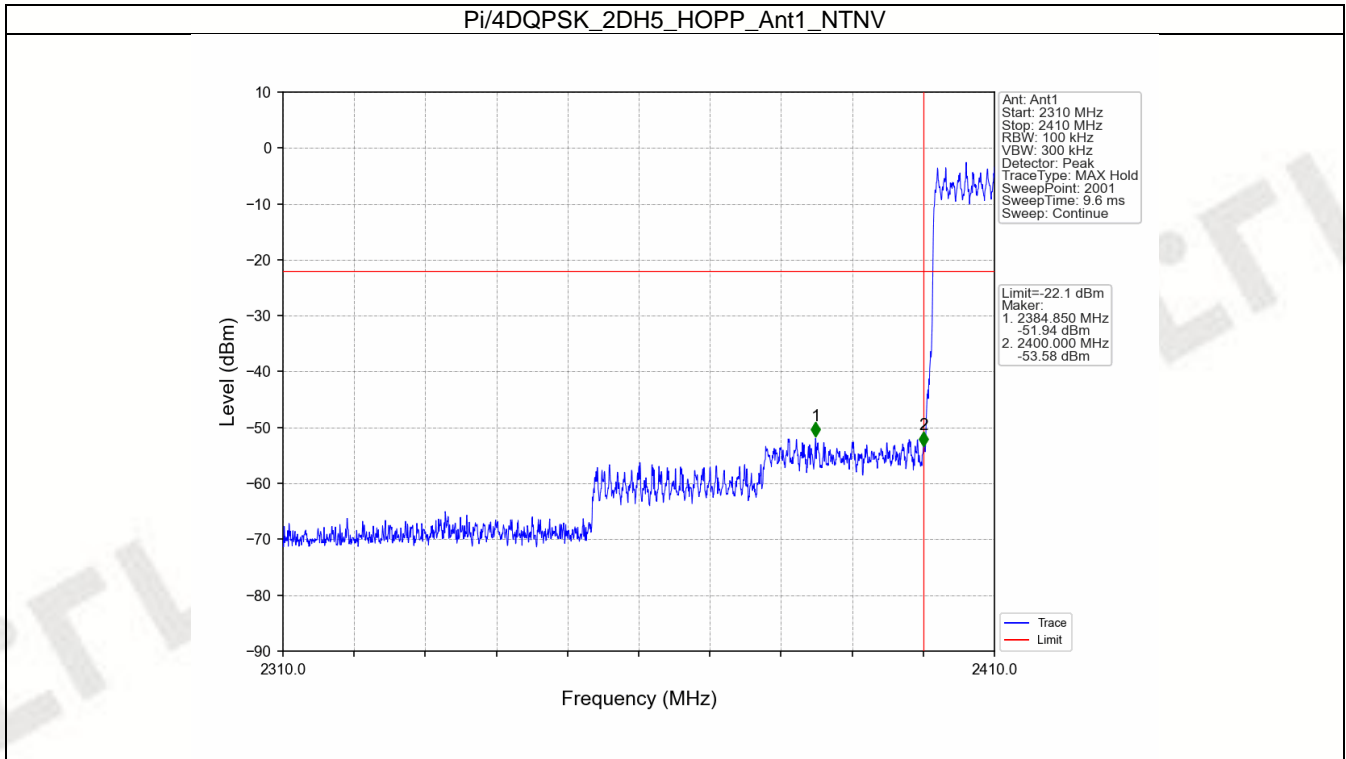




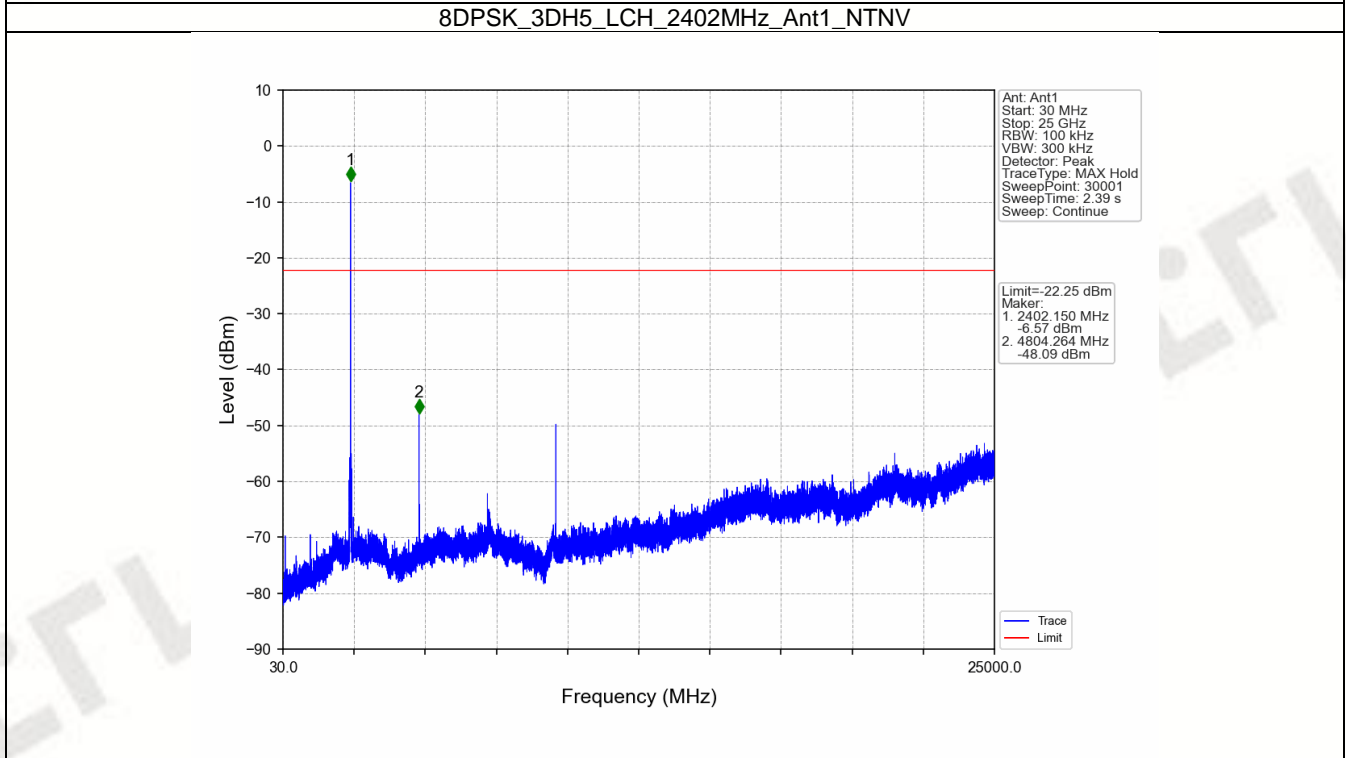
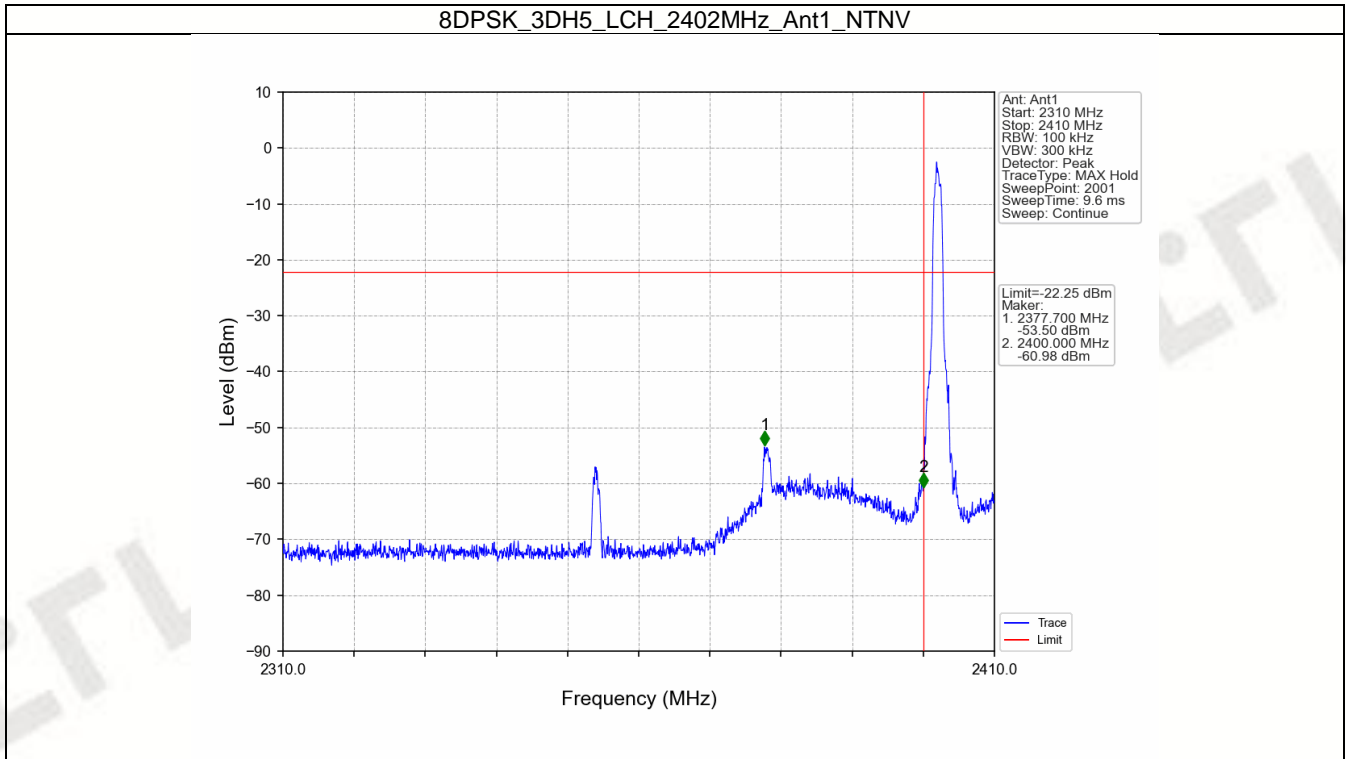
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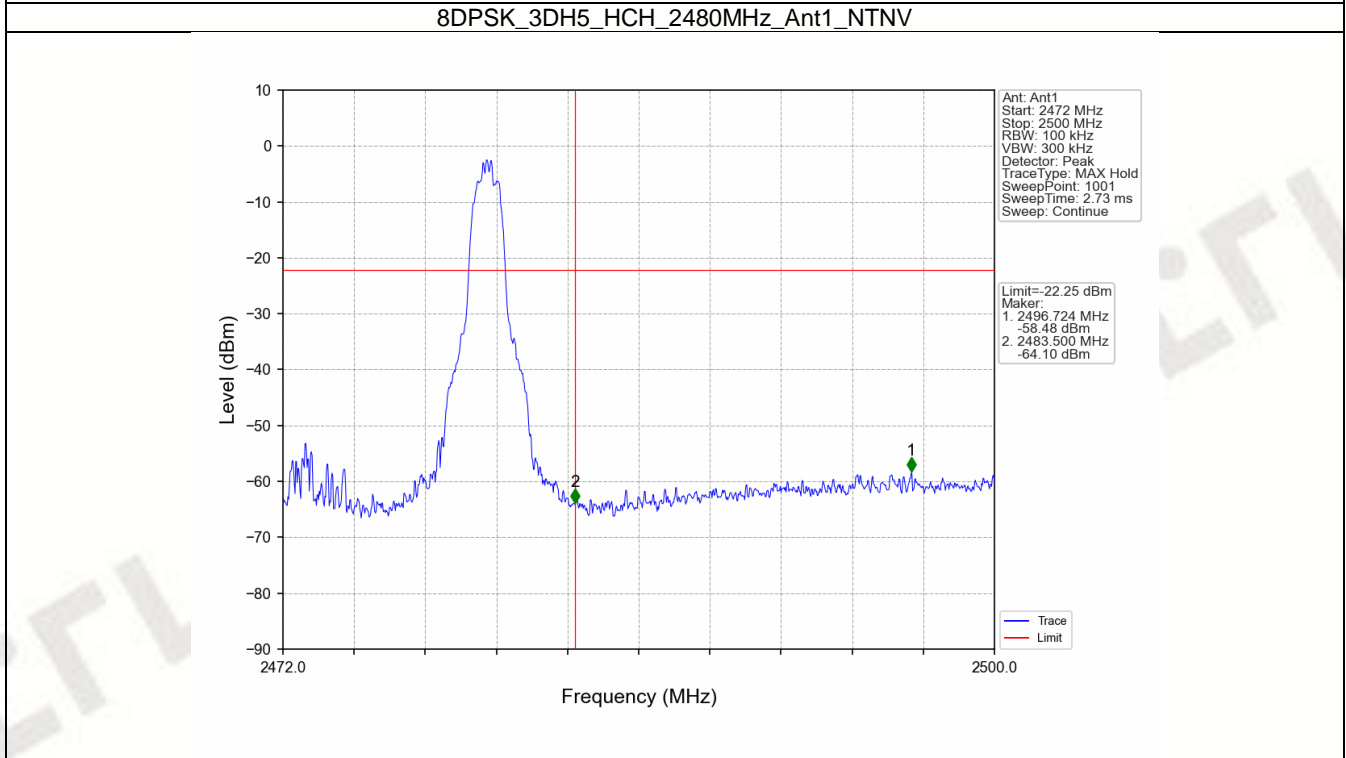
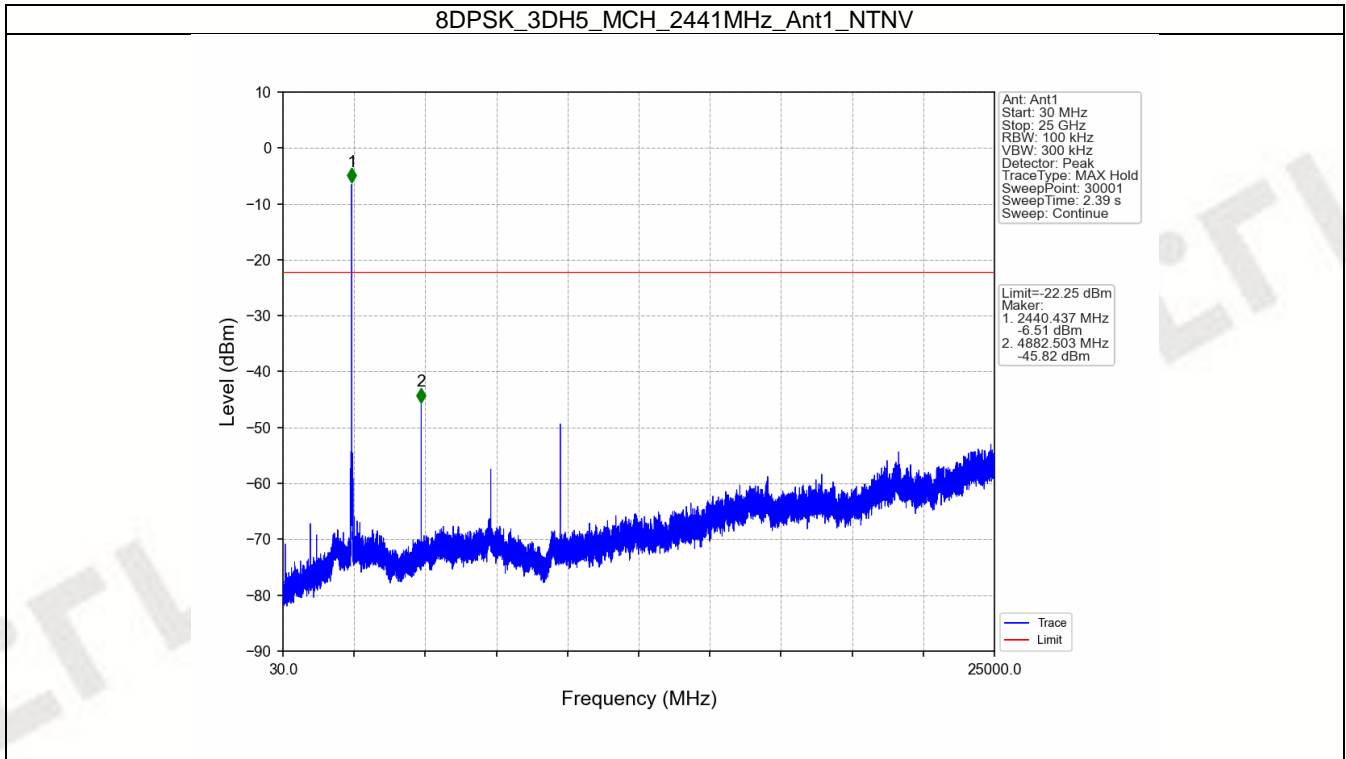
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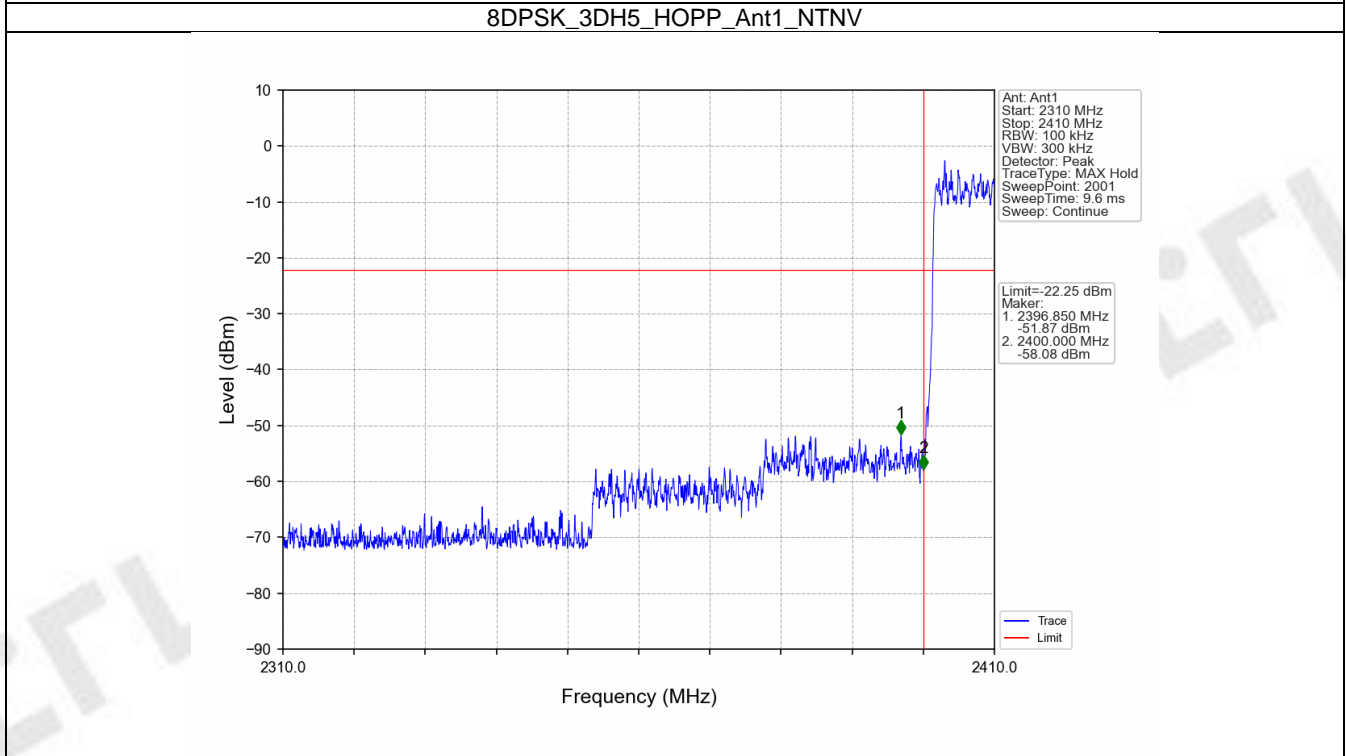
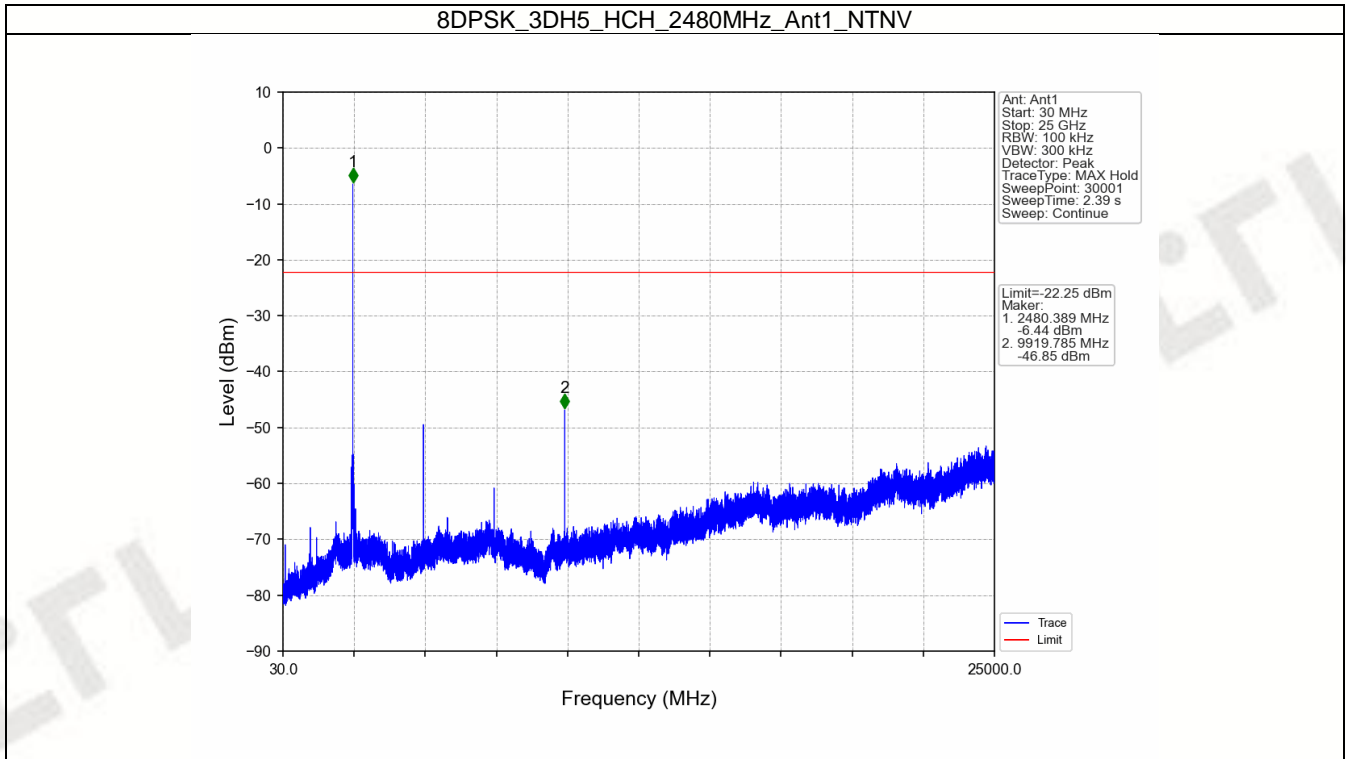
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FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081



FCCID: 2AU4P-BTS081

