

EMC-TRF-01 Rev 1.1 Report No.: GZCR230600053702

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## 10 Appendix

1. Bandwidth

1.1 20dB BW

#### 1.1.1 Test Result

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)	Verdict
	Type	(MHz) Type	AINI	Result	v Graict	
		2402	DH5	1	0.841	Pass
GFSK	SISO	2441	DH5	1	0.839	Pass
		2480	DH5	1	1.109	Pass
	SISO	2402	2DH5	1	0.854	Pass
Pi/4DQPSK		2441	2DH5	1	0.855	Pass
		2480	2DH5	1	1.144	Pass
8DPSK	SISO	2402	3DH5	1	0.855	Pass
		2441	3DH5	1	0.856	Pass
		2480	3DH5	1	1.144	Pass



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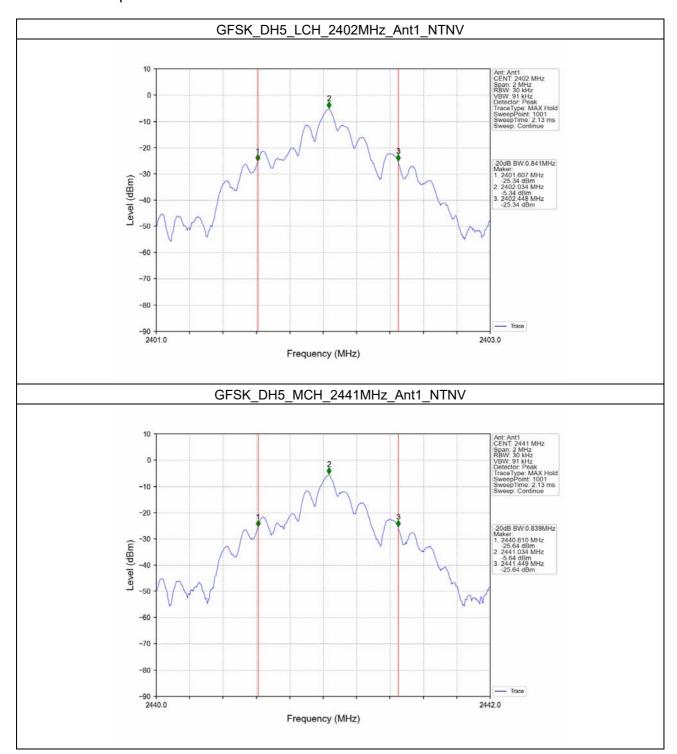


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#### 1.1.2 Test Graph





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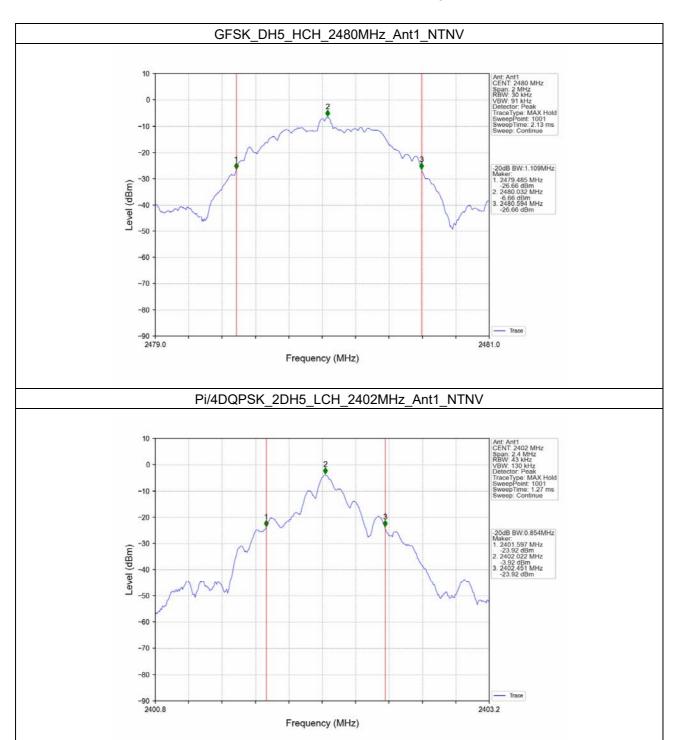
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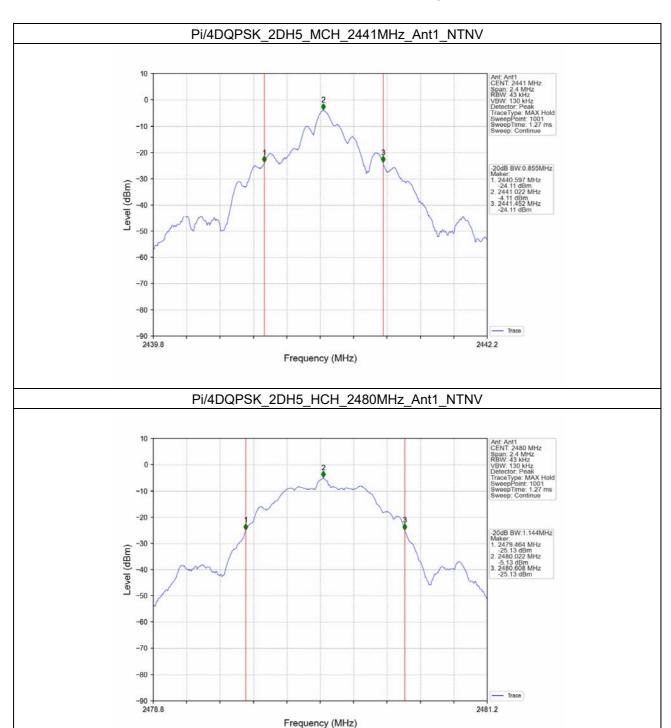
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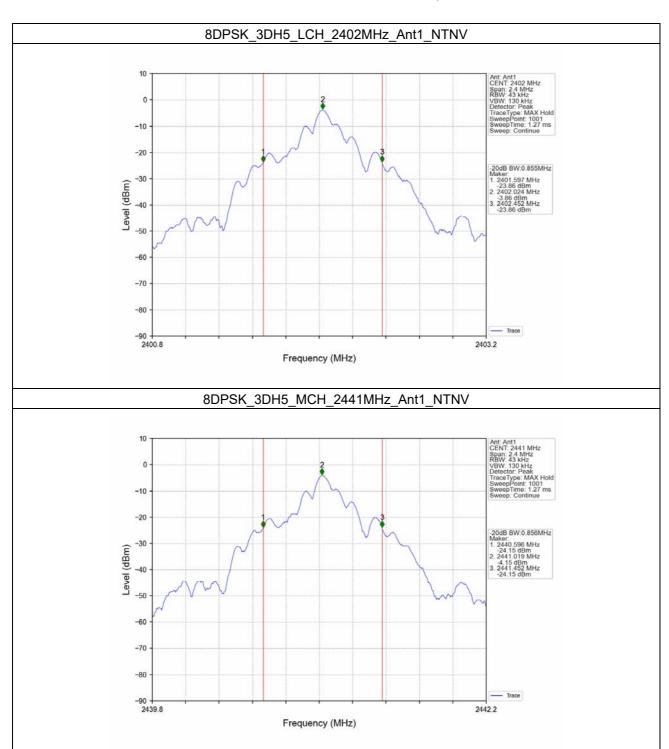
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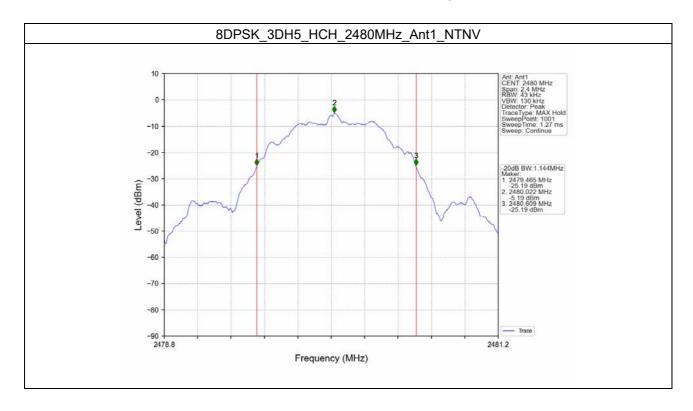
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#### 2. Maximum Conducted Output Power

#### 2.1 Power

#### 2.1.1 Test Result

Mode	TX	Frequency	Packet	Maximum Peak Conduc	Verdict			
	Type	(MHz)	MHz) Type	ANT1	Limit	verdict		
		2402	DH5	-1.60	<=20.97	Pass		
GFSK	SISO	2441	DH5	-1.90	<=20.97	Pass		
		2480	DH5	-2.87	<=20.97	Pass		
Pi/4DQPSK	SISO		2402	2DH5	-1.67	<=20.97	Pass	
		2441	2DH5	-1.90	<=20.97	Pass		
		2480	2DH5	-2.89	<=20.97	Pass		
		2402	3DH5	-1.67	<=20.97	Pass		
8DPSK	SISO	2441	3DH5	-1.91	<=20.97	Pass		
		2480	3DH5	-2.91	<=20.97	Pass		
Note1: Antenna Gain: Ant1: -0.58dBi;								



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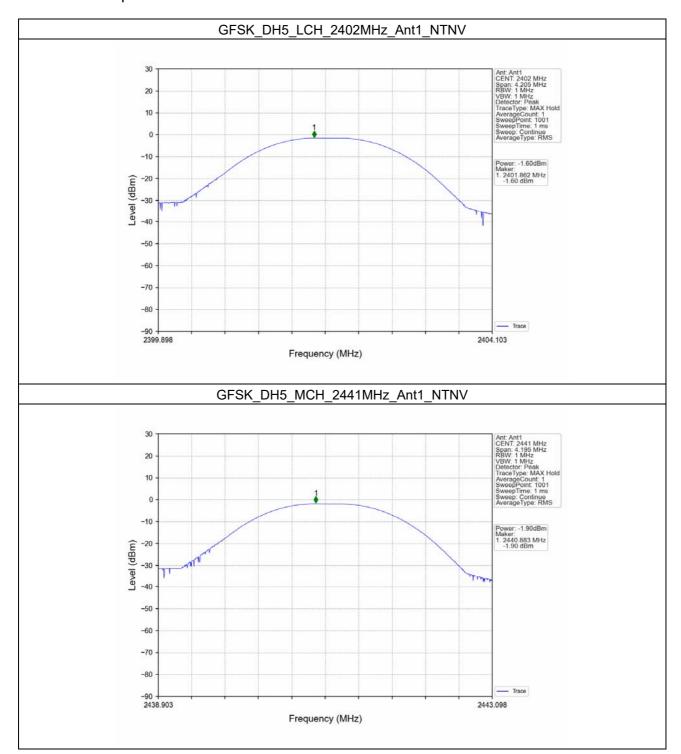


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#### 2.1.2 Test Graph





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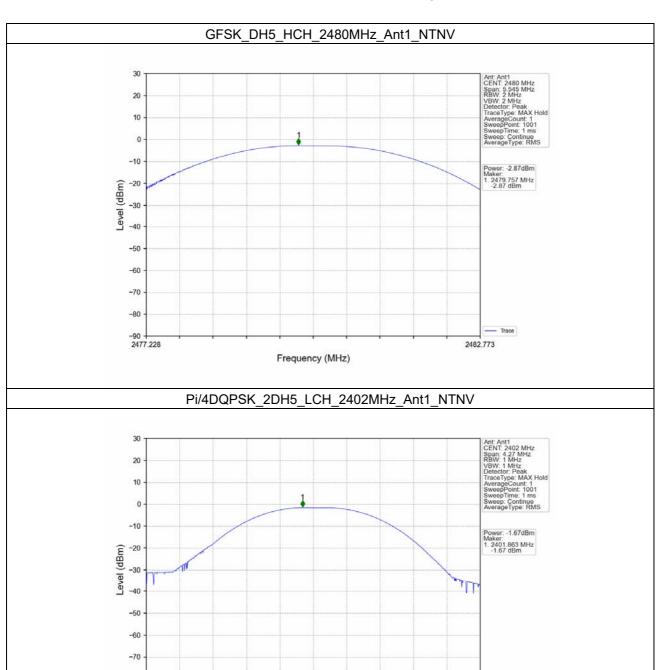
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Frequency (MHz)



-80

2399 865

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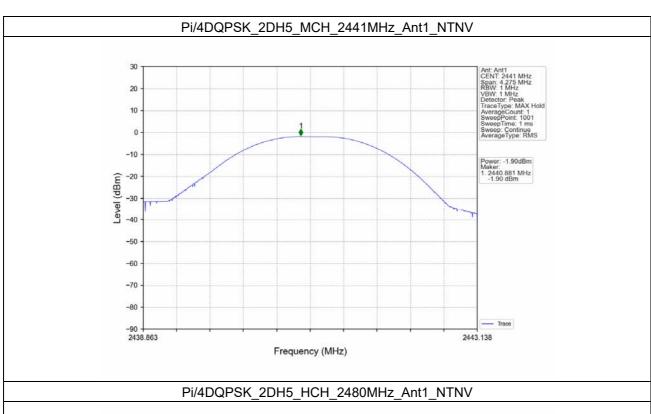
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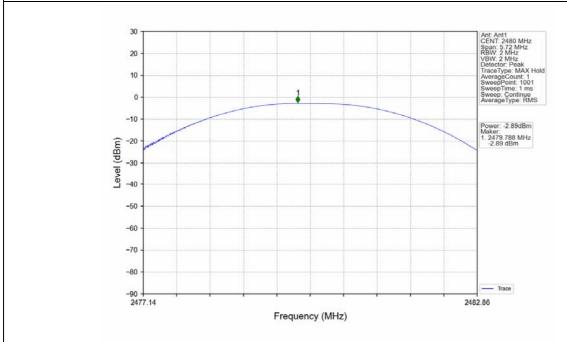


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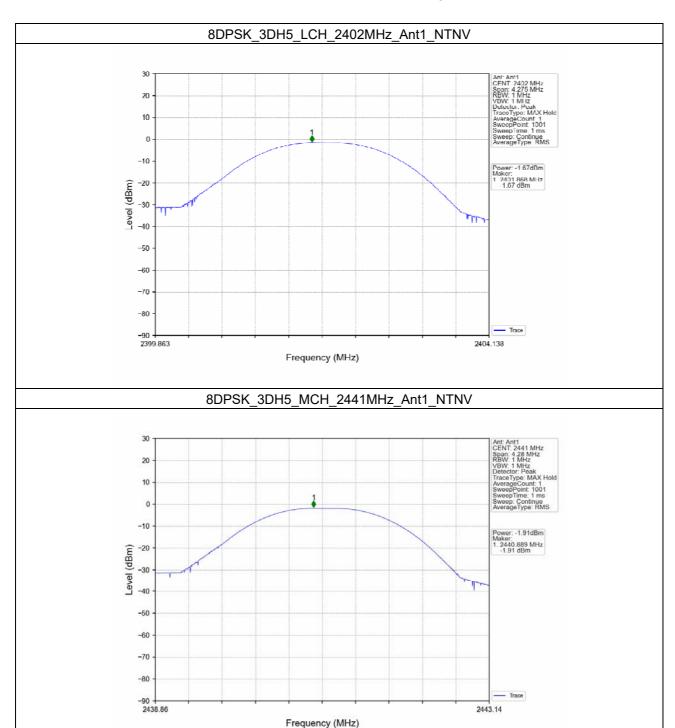
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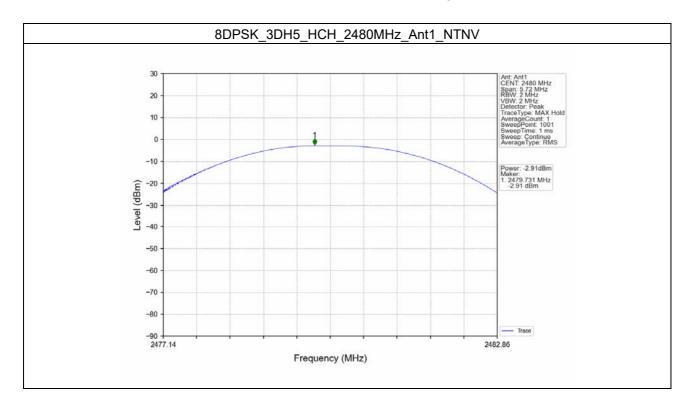
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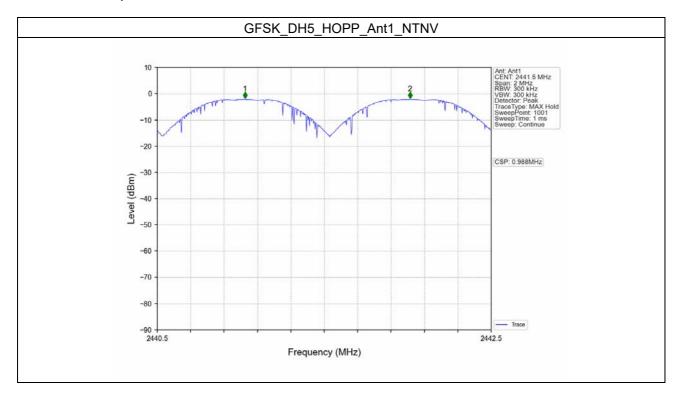
#### 3. Carrier Frequency Separation

#### 3.1 Ant1

#### 3.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict		
GFSK	SISO	HOPP	DH5	0.988	1.109	>=0.739	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.144	>=0.763	Pass		
8DPSK	SISO	HOPP	3DH5	1.010	1.144	>=0.763	Pass		

#### 3.1.2 Test Graph





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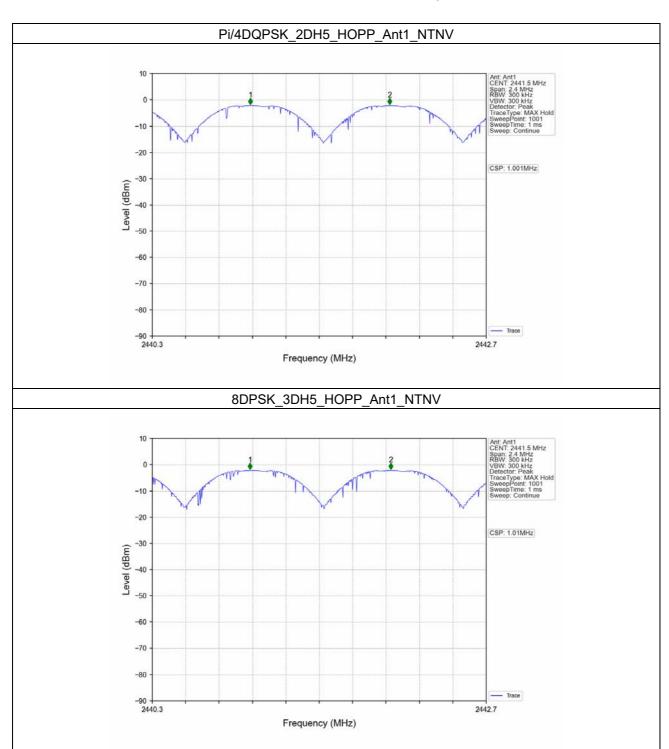
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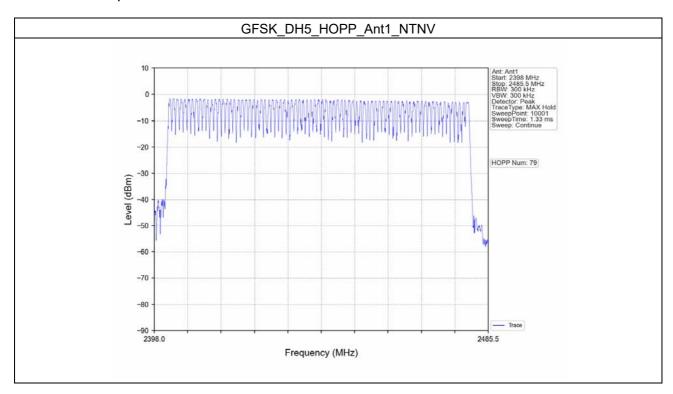
#### 4. Number of Hopping Frequencies

#### 4.1 HoppNum

#### 4.1.1 Test Result

Mada	TX	Frequency	Packet	Num of Hoppir	Vardiet	
Mode	Туре	(MHz)	Туре	ANT1	Limit	Verdict
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

#### 4.1.2 Test Graph





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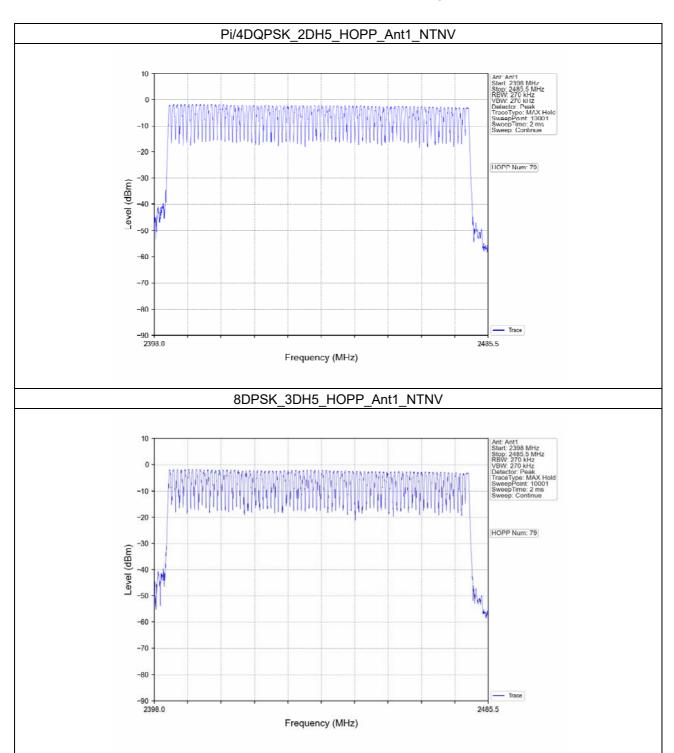
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5. Time of Occupancy (Dwell Time)

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		
		SISO HOPP	DH1	0.032	31.600	320	10.240	<=400	Pass		
GFSK	SISO		DH3	0.032	31.600	320	10.240	<=400	Pass		
			DH5	0.032	31.600	321	10.272	<=400	Pass		
		SISO HOPP	2DH1	0.032	31.600	320	10.240	<=400	Pass		
Pi/4DQPSK	SISO		2DH3	0.032	31.600	320	10.240	<=400	Pass		
			2DH5	0.030	31.600	320	9.600	<=400	Pass		
		SISO HOPP	3DH1	0.032	31.600	320	10.240	<=400	Pass		
8DPSK	SISO		3DH3	0.032	31.600	320	10.240	<=400	Pass		
			3DH5	0.032	31.600	320	10.240	<=400	Pass		



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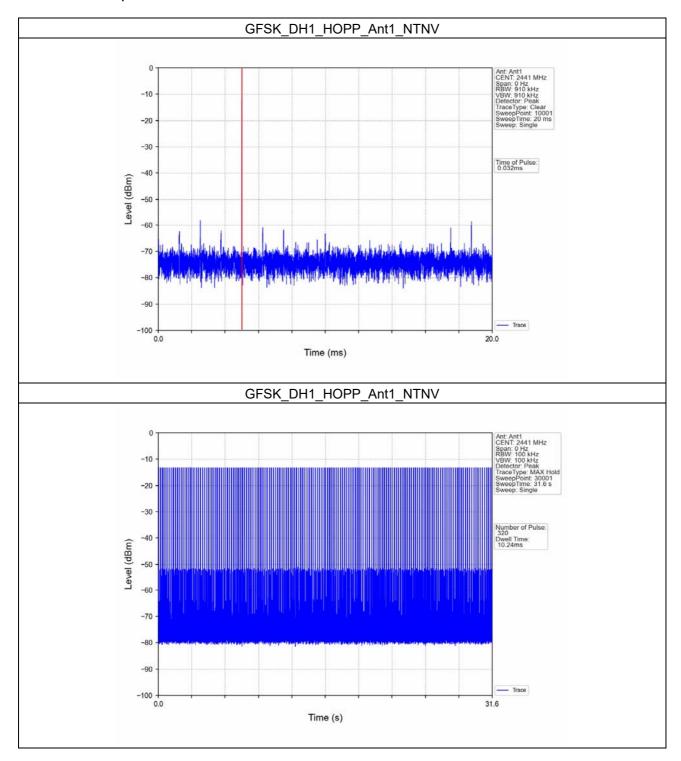


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#### 5.1.2 Test Graph





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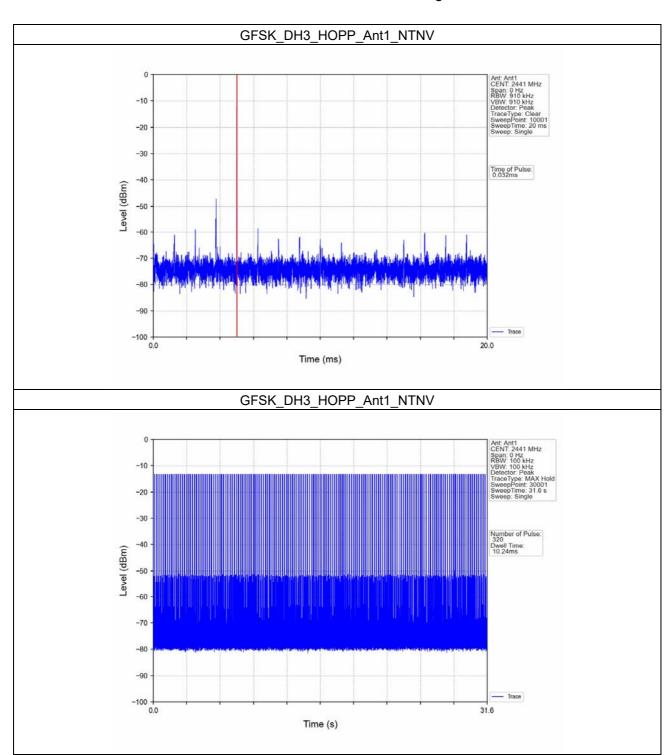
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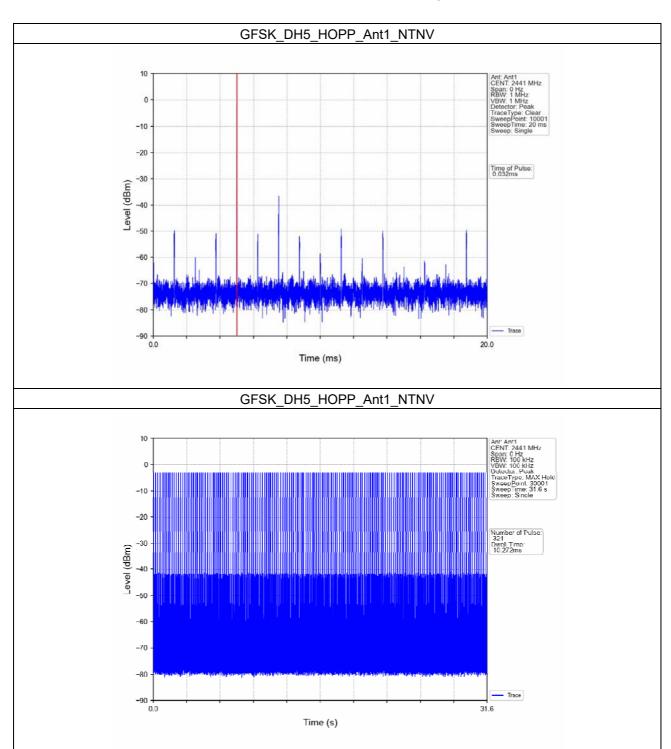
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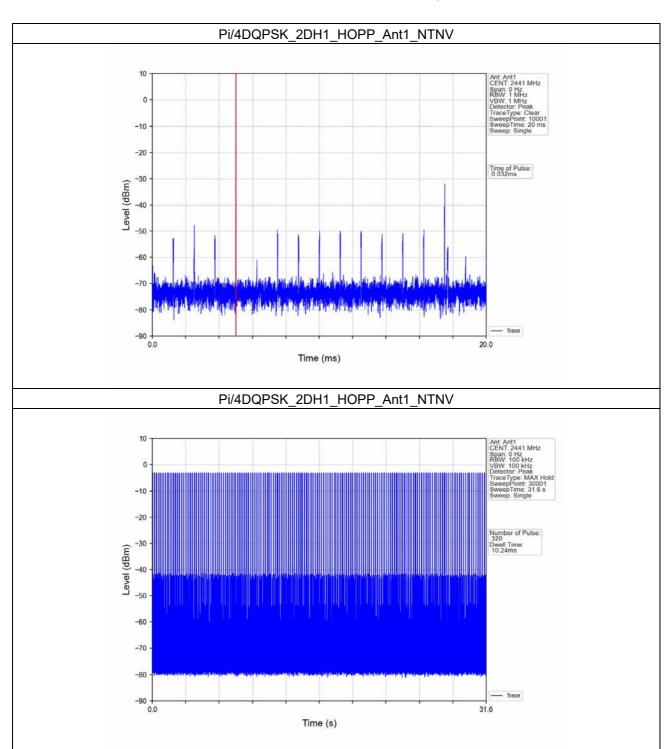
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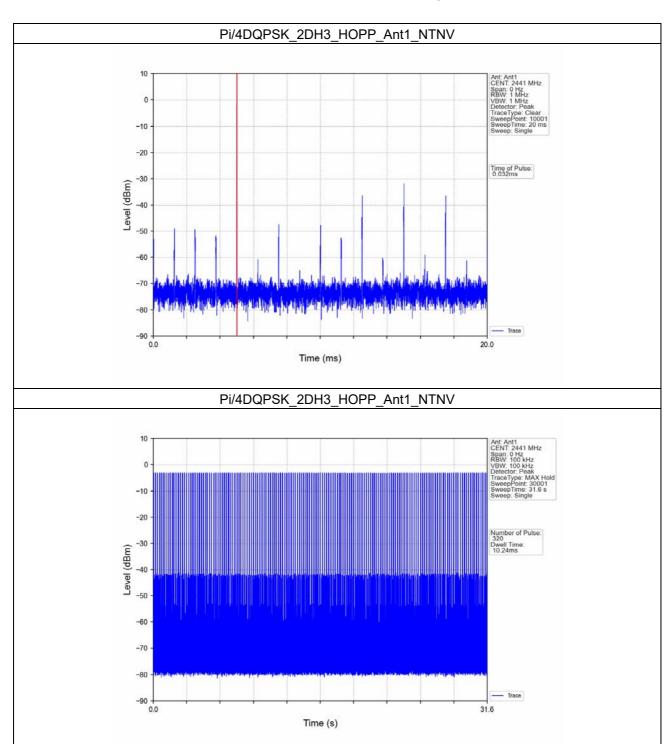
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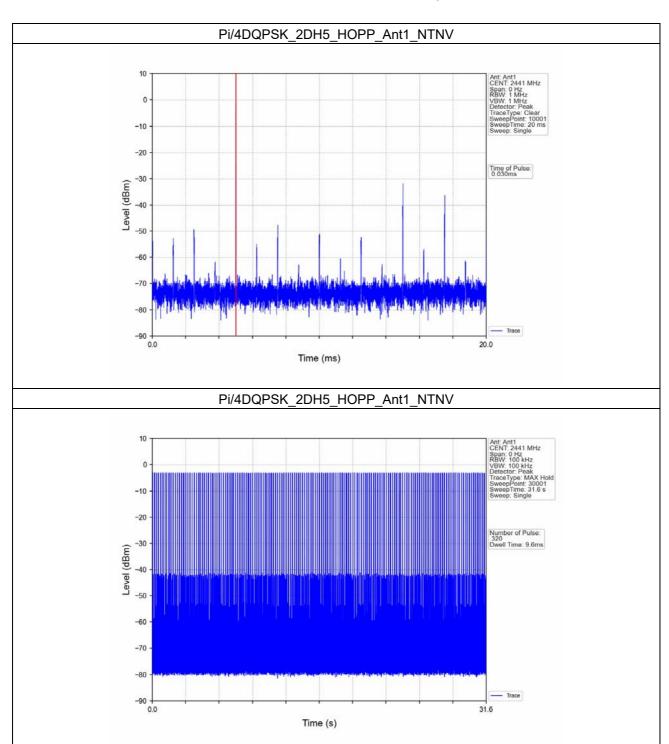
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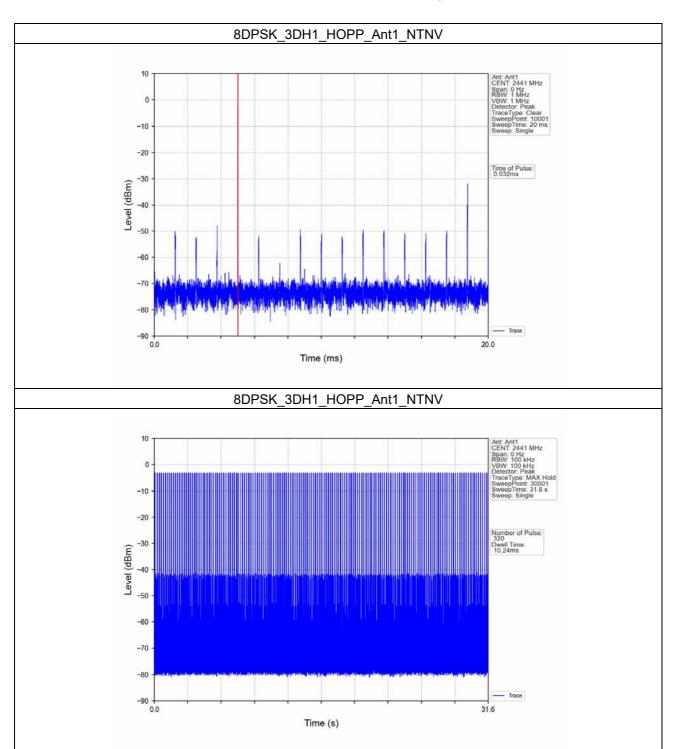
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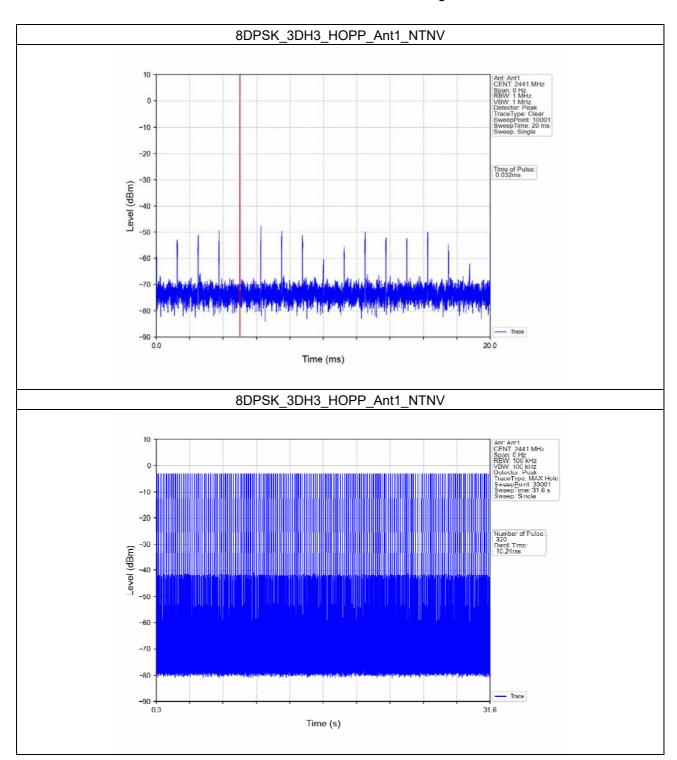
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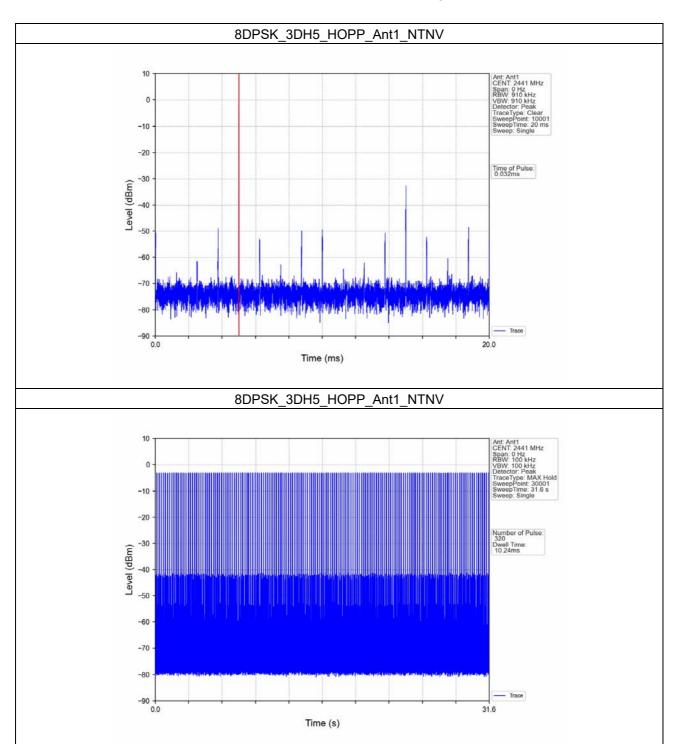
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#### 6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	1	-2.08
GFSK	SISO	2441	DH5	1	-2.37
		2480	DH5	1	-3.38
	SISO	2402	2DH5	1	-2.13
Pi/4DQPSK		2441	2DH5	1	-2.36
		2480	2DH5	1	-3.40
8DPSK	SISO	2402	3DH5	1	-2.15
		2441	3DH5	1	-2.39
		2480	3DH5	1	-3.43

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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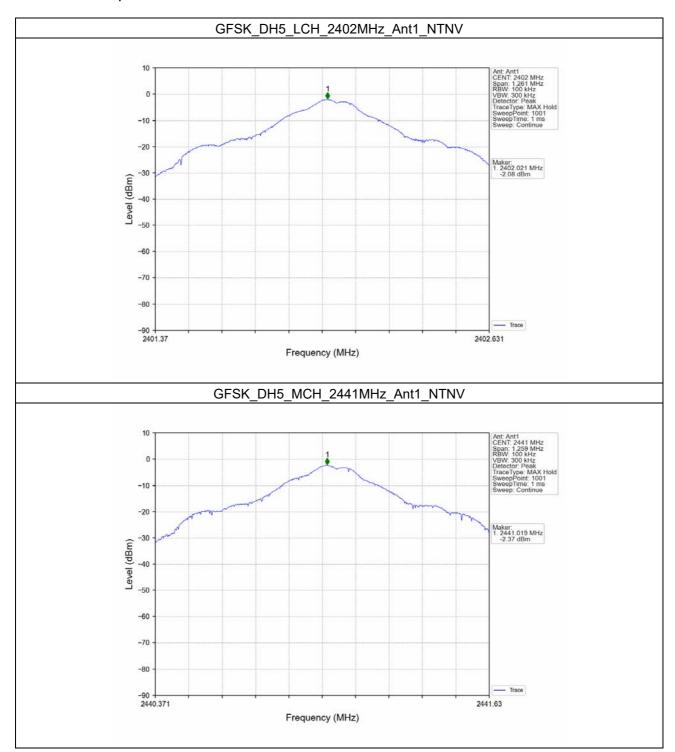


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#### 6.1.2 Test Graph





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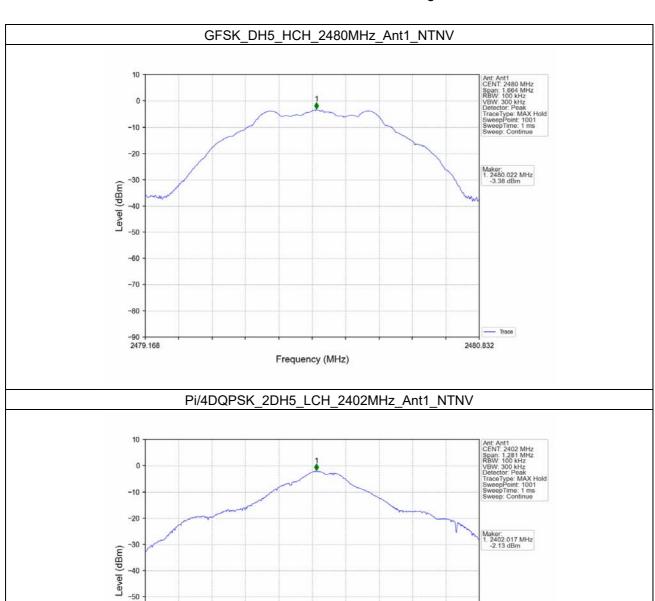
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Frequency (MHz)

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2402 641

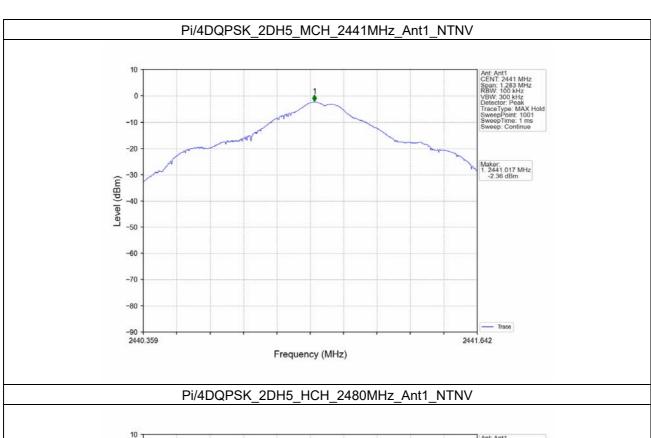
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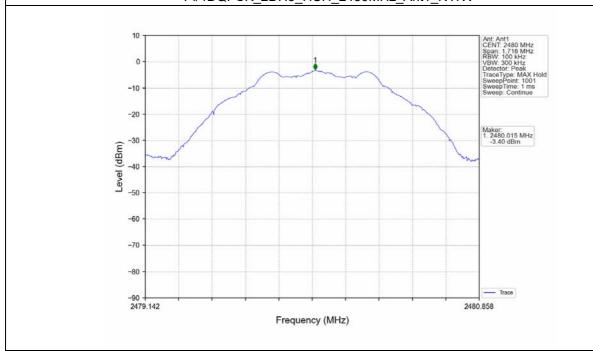


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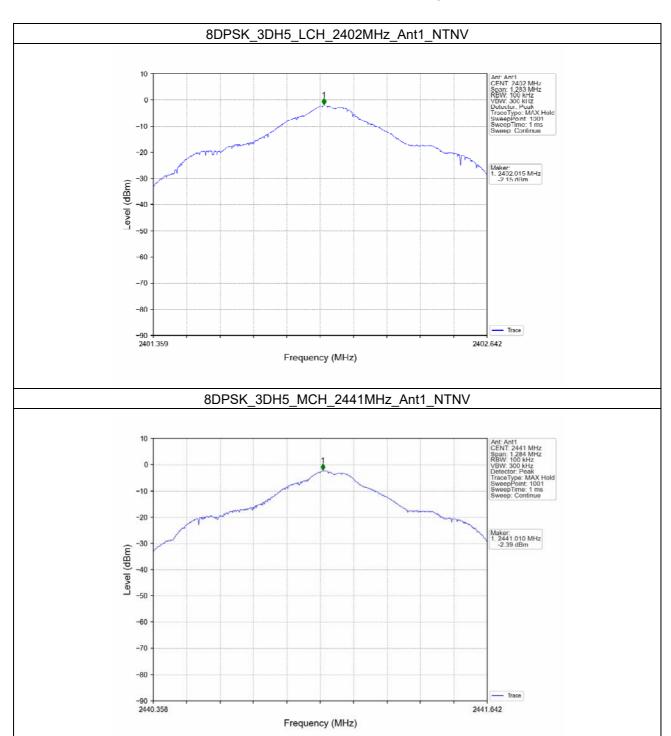
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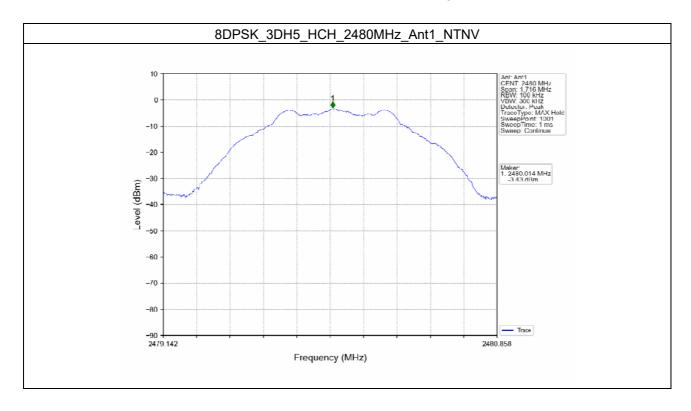
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#### 6.2 CSE and Band Edges

#### 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	-2.08	-22.08	Pass
OFOK	CICO	2441	DH5	1	-2.08	-22.08	Pass
GFSK	SISO	2480	DH5	1	-2.08	-22.08	Pass
		HOPP	DH5	1	-2.08	-22.08	Pass
	SISO	2402	2DH5	1	-2.13	-22.13	Pass
D:/ADODEK		2441	2DH5	1	-2.13	-22.13	Pass
Pi/4DQPSK		2480	2DH5	1	-2.13	-22.13	Pass
		HOPP	2DH5	1	-2.13	-22.13	Pass
		2402	3DH5	1	-2.15	-22.15	Pass
8DPSK	CICO	2441	3DH5	1	-2.15	-22.15	Pass
	SISO	2480	3DH5	1	-2.15	-22.15	Pass
		HOPP	3DH5	1	-2.15	-22.15	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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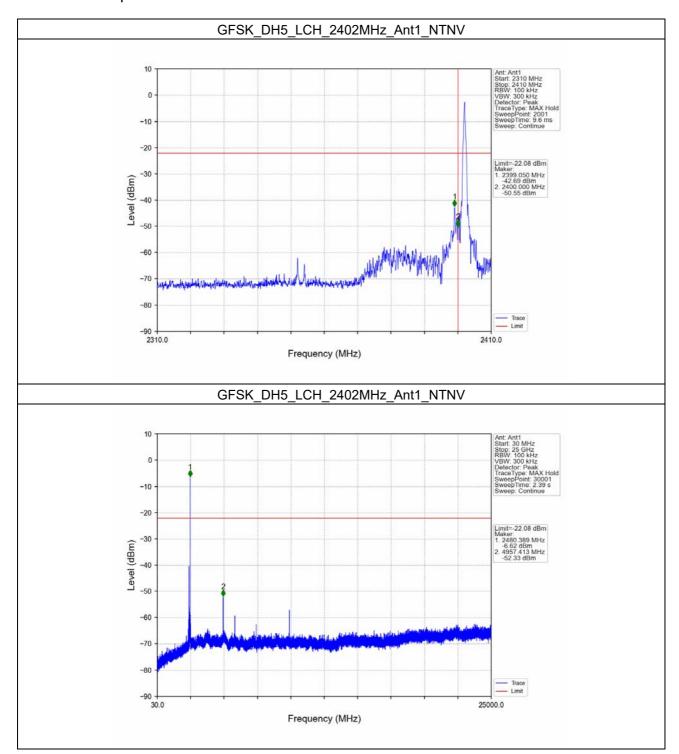


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#### 6.2.2 Test Graph





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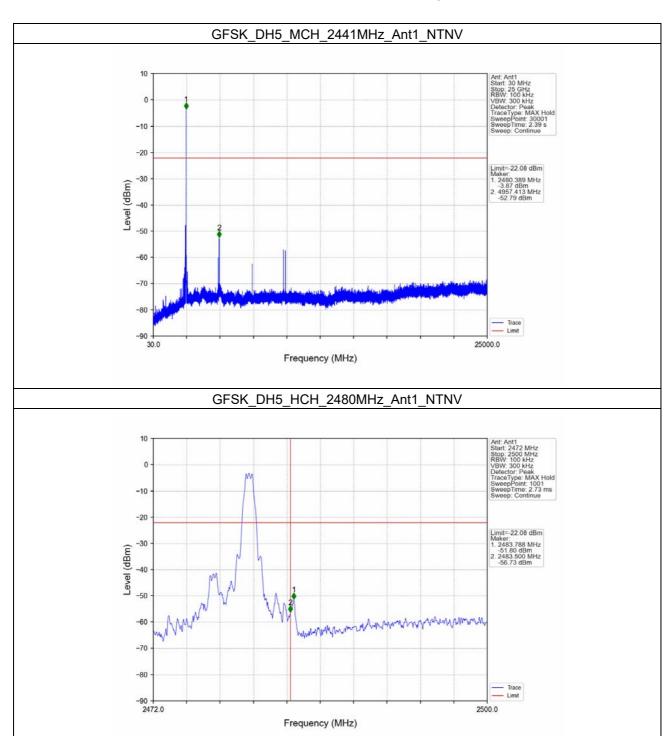
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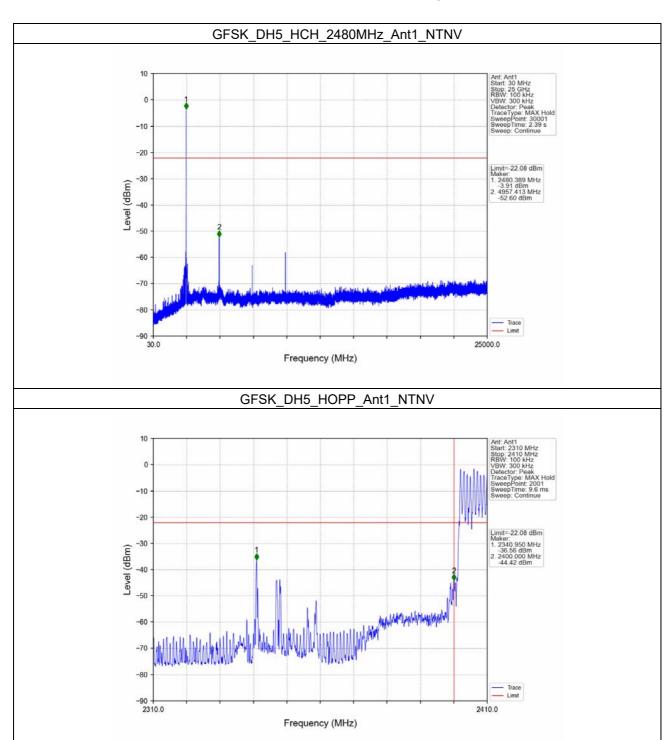
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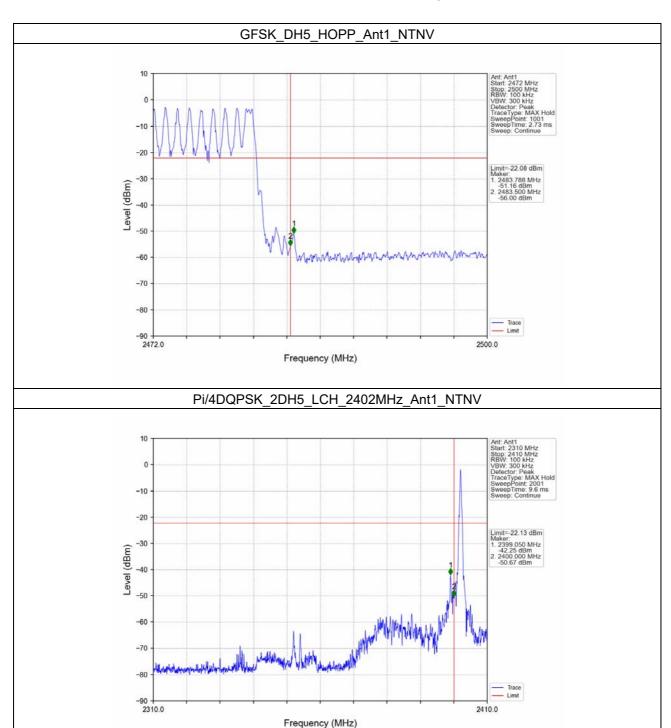
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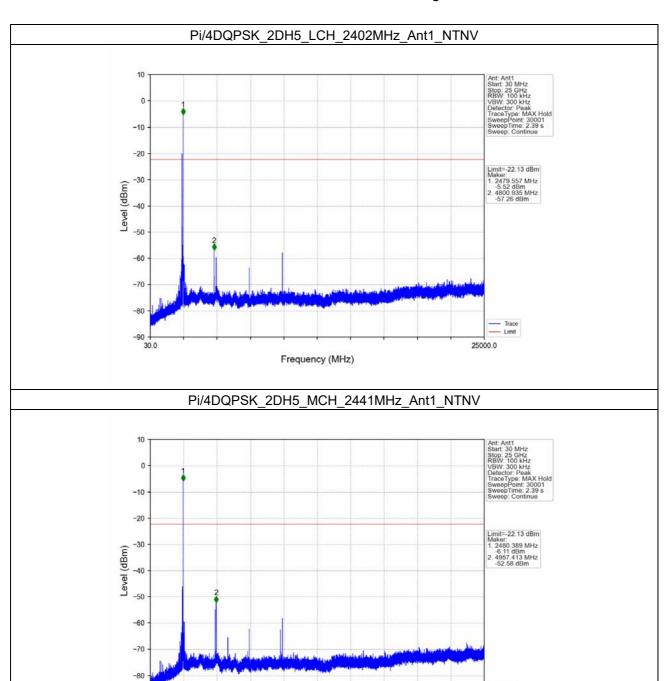
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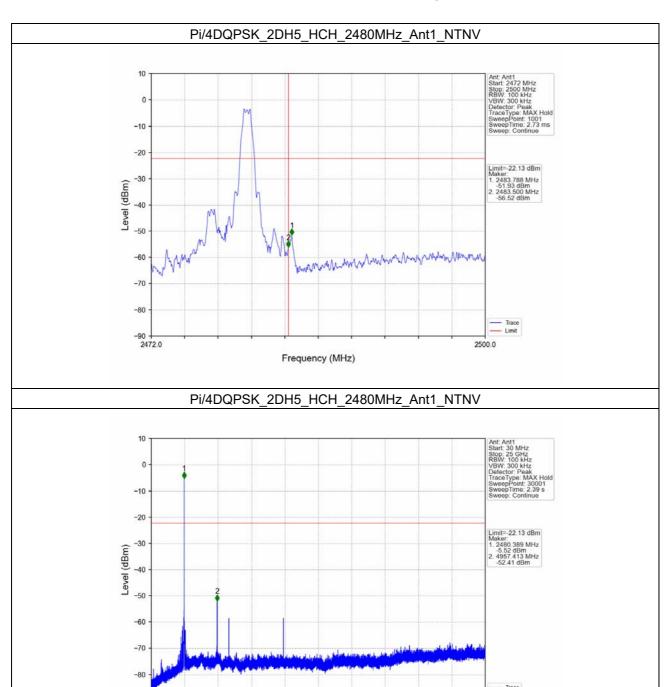
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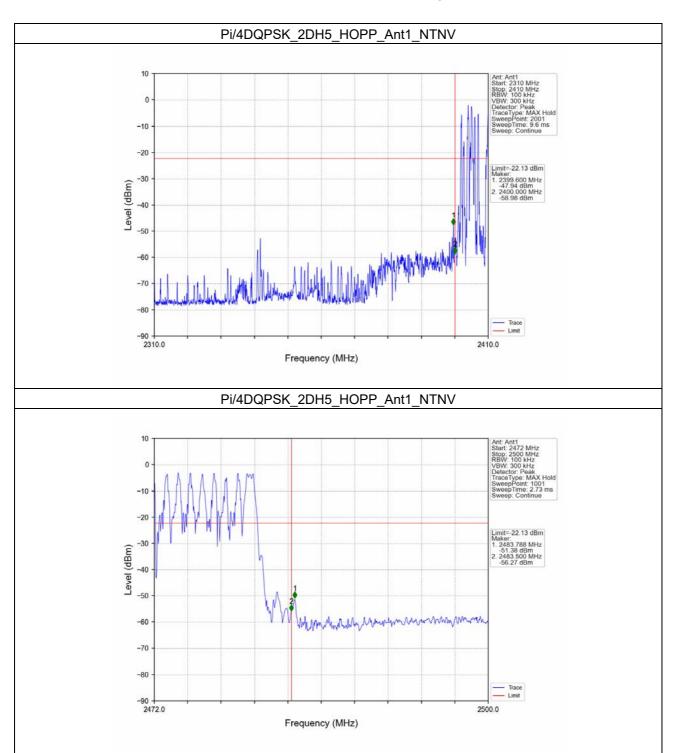
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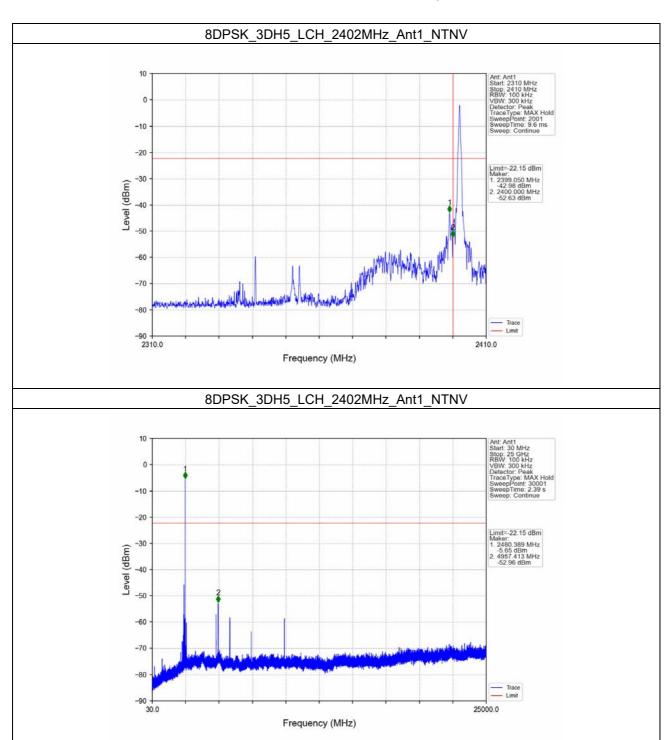
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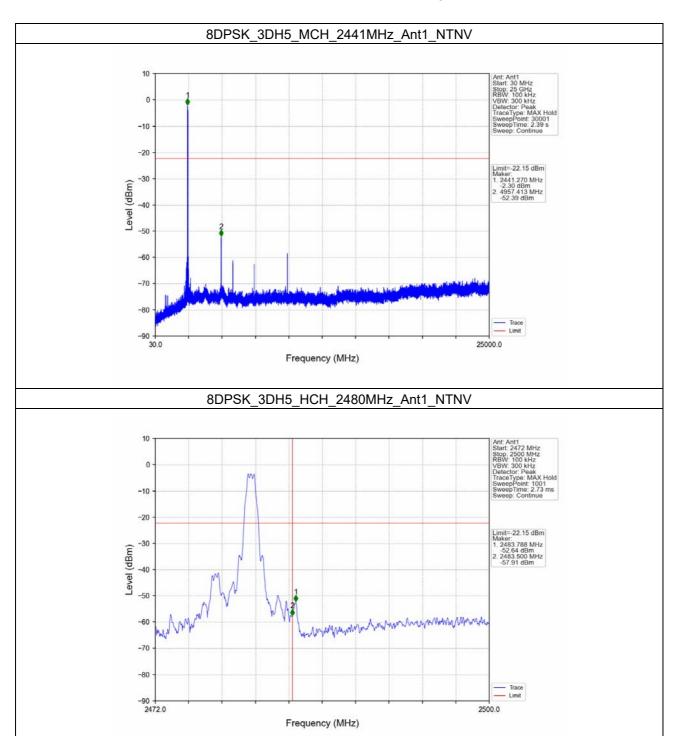
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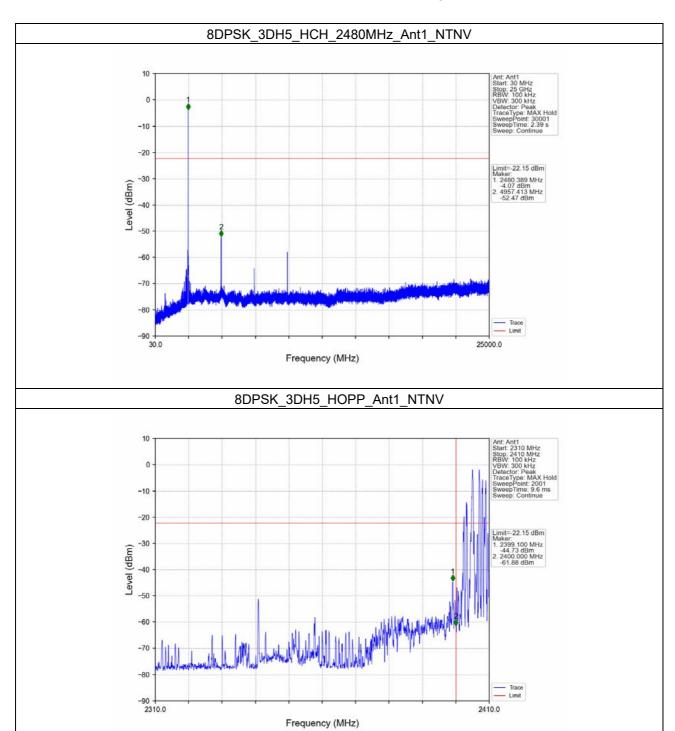
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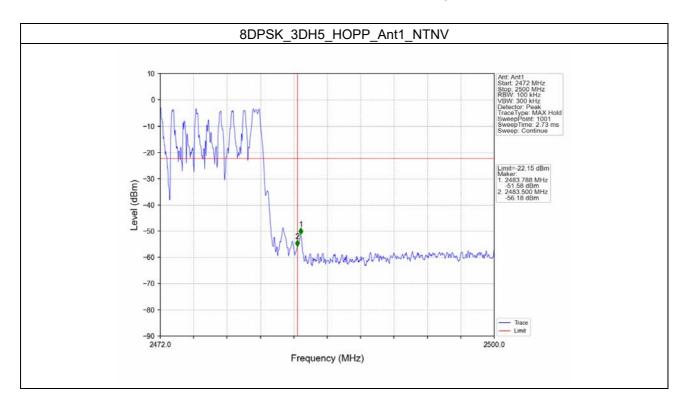
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