

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100364102

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For Left earbud:

1. Bandwidth

1.1 **OBW** 

#### 1.1.1 Test Result

Mode	TX	Frequency	Packet	ANT	99% Occupied E	Verdict	
	Type	(MHz)	Type Aivi	Result	Limit		
		2402	DH5	1	0.874	/	Pass
GFSK	SISO	2441	DH5	1	0.871	/	Pass
		2480	DH5	1	0.868	/	Pass
	SISO	2402	2DH5	1	1.208	/	Pass
Pi/4DQPSK		2441	2DH5	1	1.208	/	Pass
		2480	2DH5	1	1.205	/	Pass
8DPSK	SISO	2402	3DH5	1	1.216	/	Pass
		2441	3DH5	1	1.211	/	Pass
		2480	3DH5	1	1.207	/	Pass



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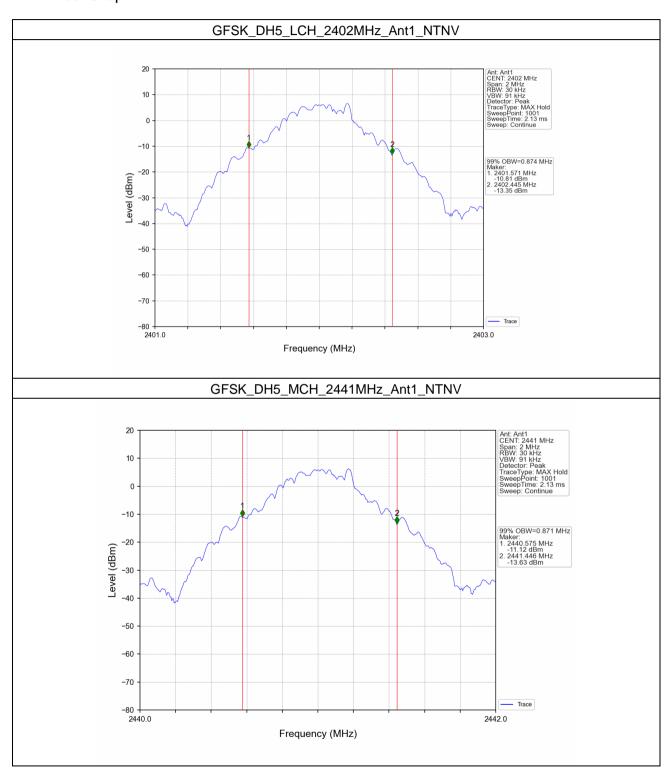


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#### 1.1.2 Test Graph





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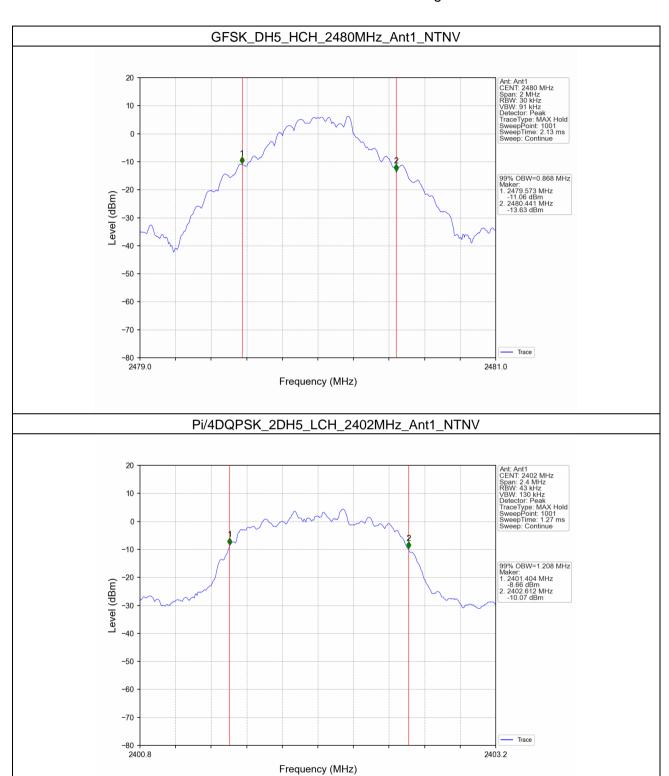
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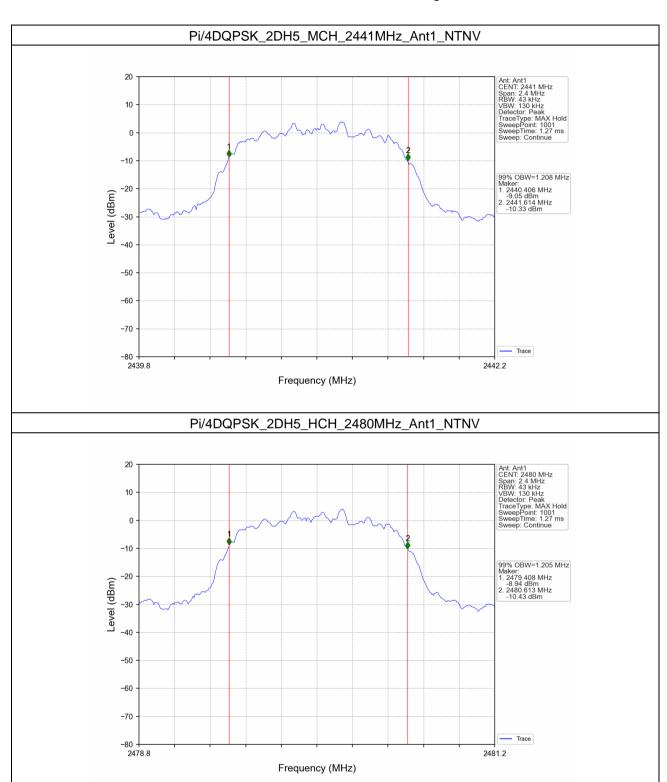
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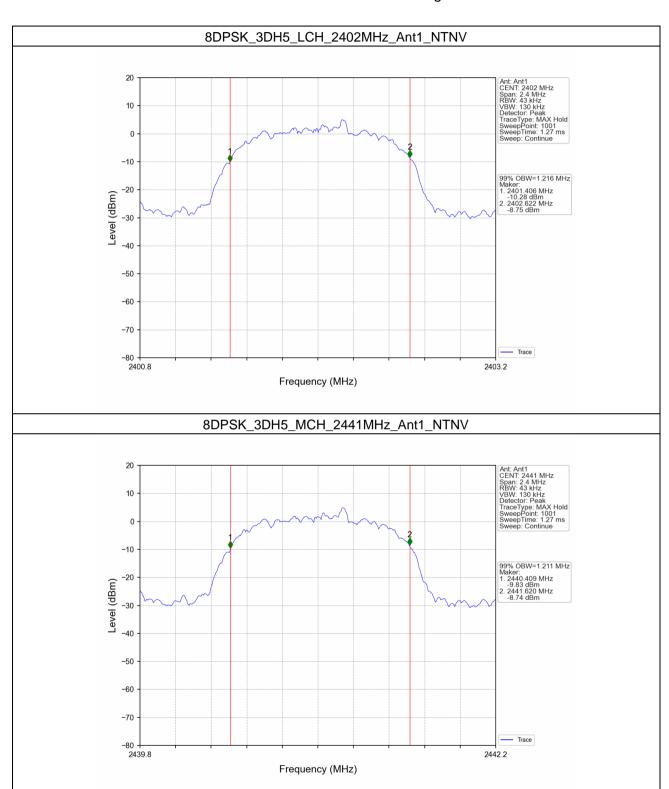
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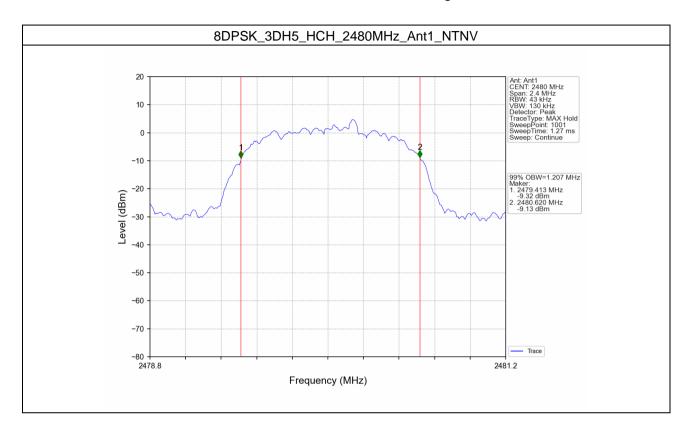
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#### 1.2 20dB BW

#### 1.2.1 Test Result

Mode	TX	Frequency	Packet	ANT	20dB Band	Verdict	
Mode	Type	(MHz)	Type ANT	Result	Limit	verdict	
		2402	DH5	1	0.961	2400-2483.5	Pass
GFSK	SISO	2441	DH5	1	0.960	2400-2483.5	Pass
		2480	DH5	1	0.959	2400-2483.5	Pass
	SISO	2402	2DH5	1	1.360	2400-2483.5	Pass
Pi/4DQPSK		2441	2DH5	1	1.359	2400-2483.5	Pass
		2480	2DH5	1	1.363	2400-2483.5	Pass
		2402	3DH5	1	1.337	2400-2483.5	Pass
8DPSK	SISO	2441	3DH5	1	1.336	2400-2483.5	Pass
		2480	3DH5	1	1.332	2400-2483.5	Pass



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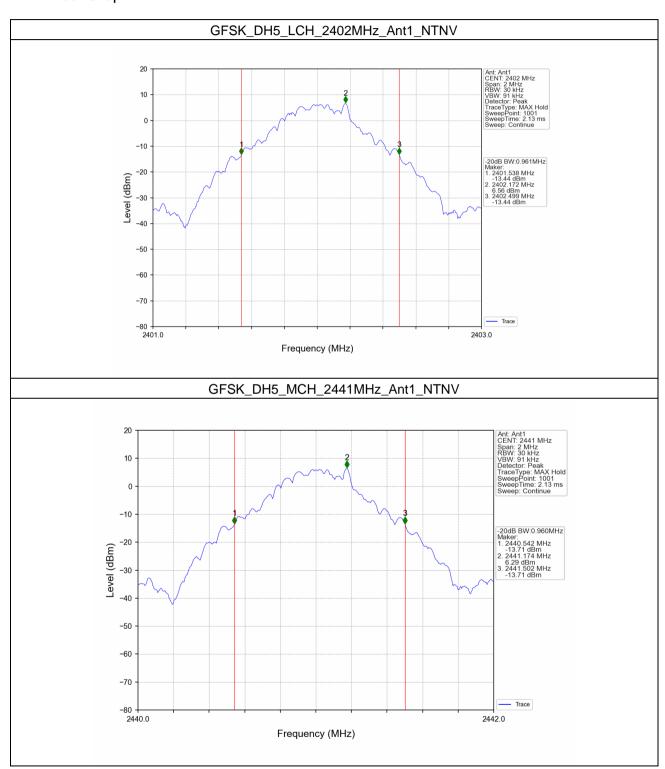


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#### 1.2.2 Test Graph





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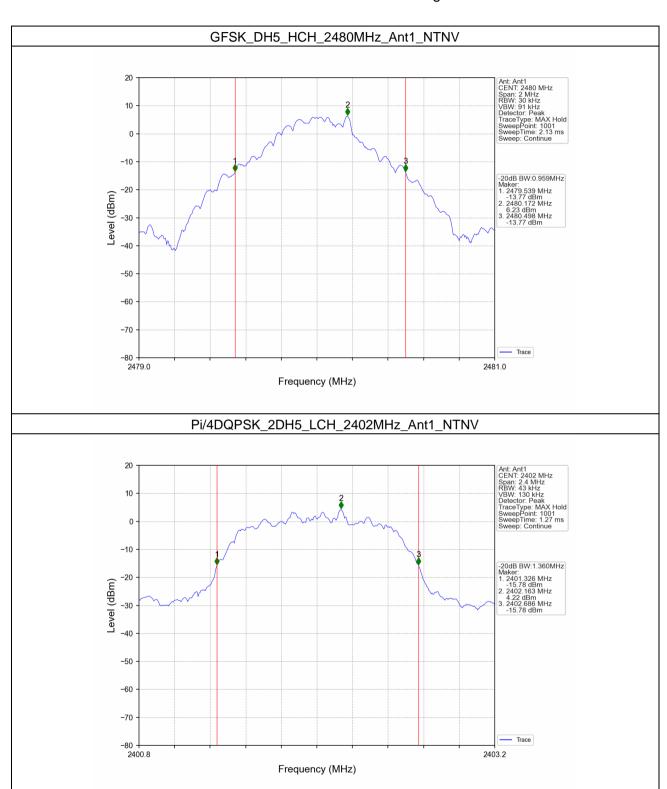
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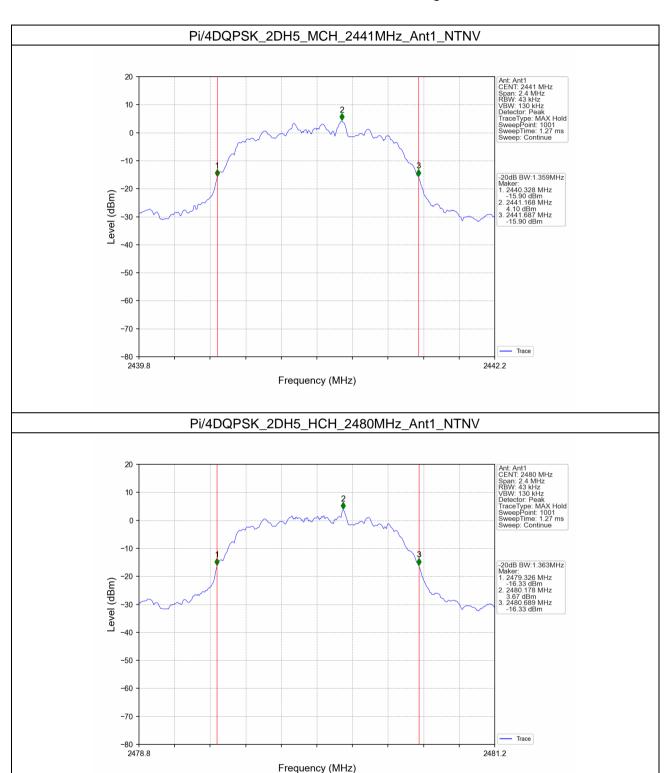
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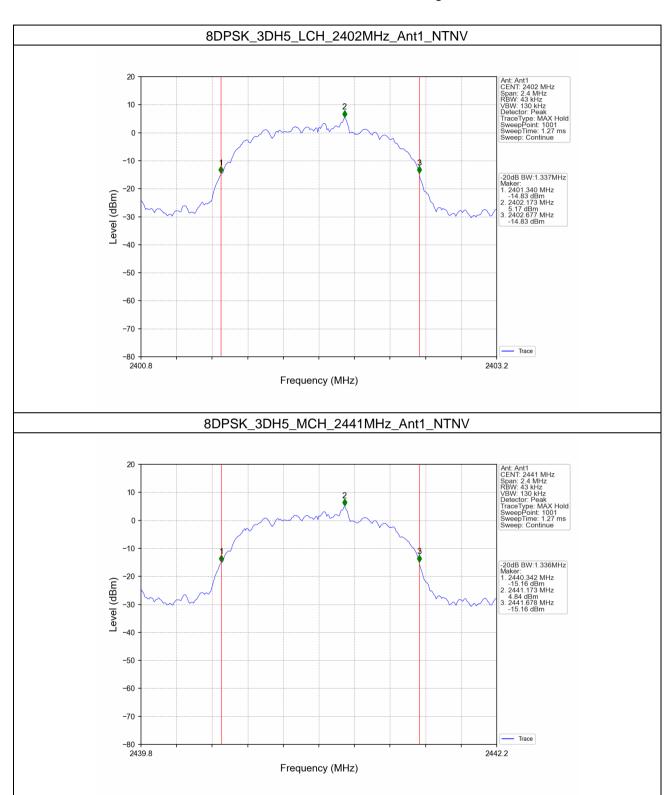
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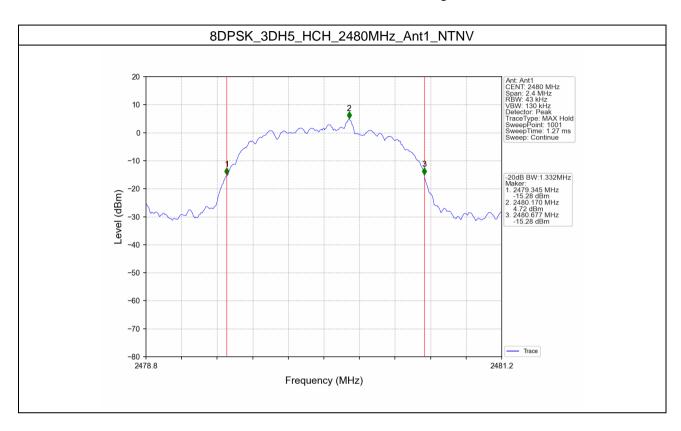
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#### 2. Maximum Conducted Output Power

#### 2.1 Power

#### 2.1.1 Test Result

Mode	TX	(dBill)		•	Verdict	
	Type	(MHz)	Type	ANT1	Limit	
		2402	DH5	8.74	<=30	Pass
GFSK	SISO	2441	DH5	8.52	<=30	Pass
		2480	DH5	8.44	<=30	Pass
	SISO	2402	2DH5	8.47	<=20.97	Pass
Pi/4DQPSK		2441	2DH5	8.32	<=20.97	Pass
		2480	2DH5	8.26	<=20.97	Pass
		2402	3DH5	8.76	<=20.97	Pass
8DPSK	SISO	2441	3DH5	8.61	<=20.97	Pass
		2480	3DH5	8.56	<=20.97	Pass
Note1: Antenr	na Gain: A	nt1: 0.28dBi;				



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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	1.000	0.961	>=0.961	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	1.003	1.363	>=0.909	Pass			
8DPSK	SISO	HOPP	3DH5	1.001	1.337	>=0.891	Pass			



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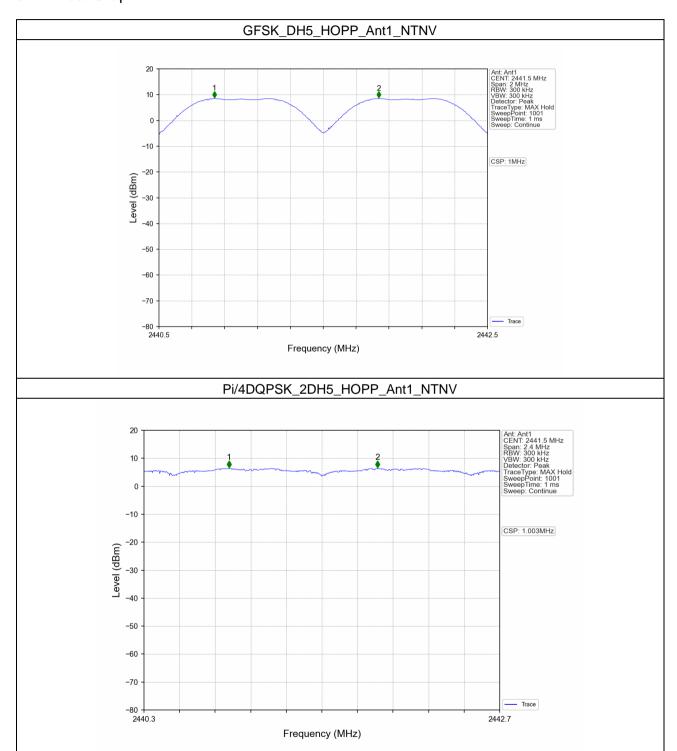


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#### 3.1.2 Test Graph





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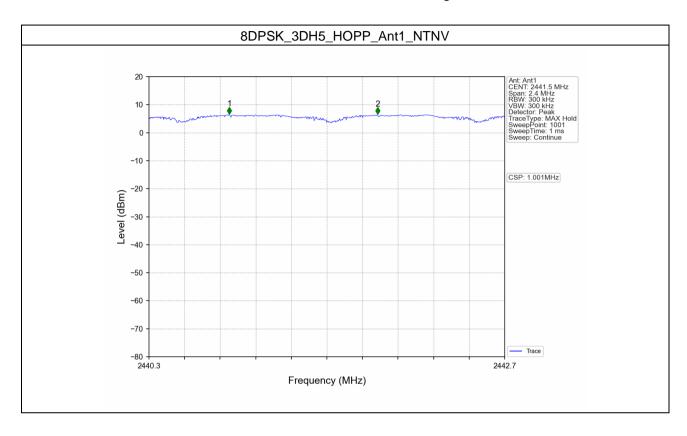
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## 4. Number of Hopping Frequencies

#### 4.1 HoppNum

#### 4.1.1 Test Result

Mode	TX	Frequency	Packet	Num of Hoppir	ng Frequencies	Vordict
Mode	Туре	(MHz)	Type	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



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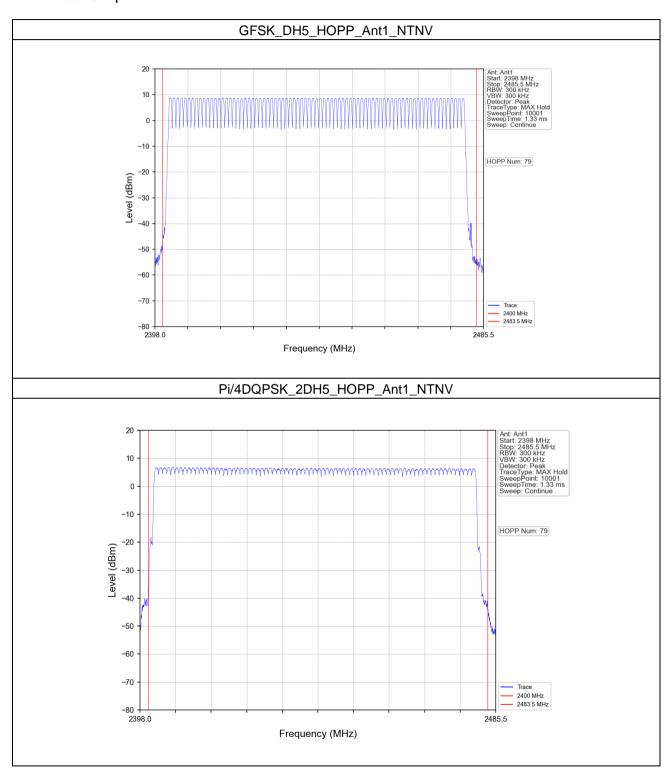


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#### 4.1.2 Test Graph





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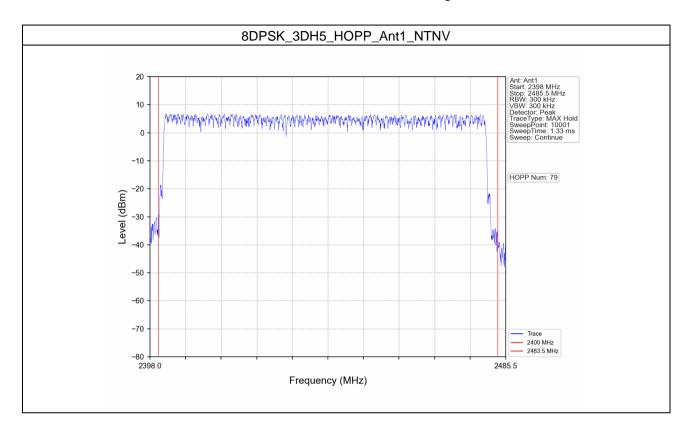
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## 5. Time of Occupancy (Dwell Time)

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	
			DH1	0.388	31.600	320	124.160	<=400	Pass	
GFSK	SISO	SO HOPP	DH3	1.658	31.600	167	276.886	<=400	Pass	
			DH5	2.904	31.600	111	322.344	<=400	Pass	
		SO HOPP	2DH1	0.386	31.600	320	123.520	<=400	Pass	
Pi/4DQPSK	SISO		2DH3	1.656	31.600	160	264.960	<=400	Pass	
			2DH5	2.904	31.600	104	302.016	<=400	Pass	
		SO HOPP	3DH1	0.392	31.600	320	125.440	<=400	Pass	
8DPSK	SISO		3DH3	1.642	31.600	165	270.930	<=400	Pass	
			3DH5	2.906	31.600	109	316.754	<=400	Pass	



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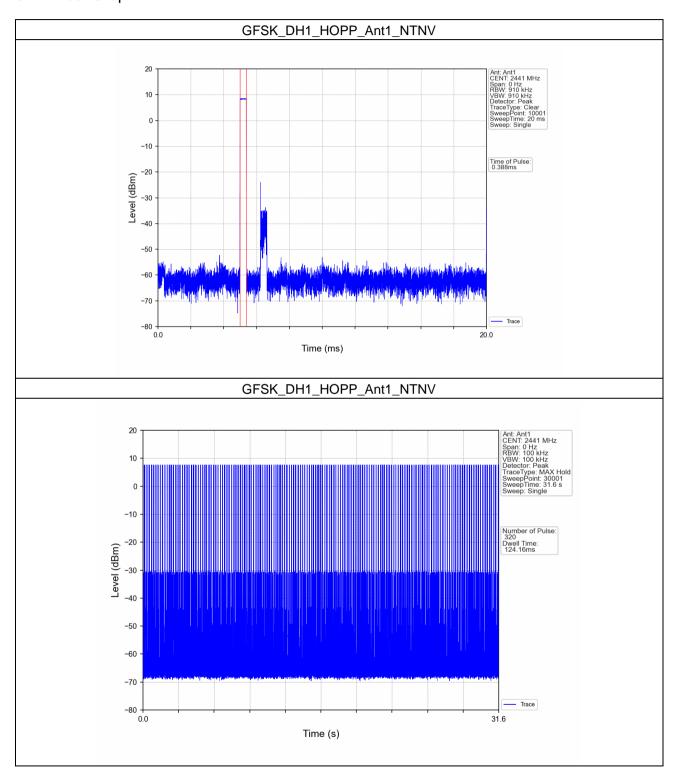


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#### 5.1.2 Test Graph





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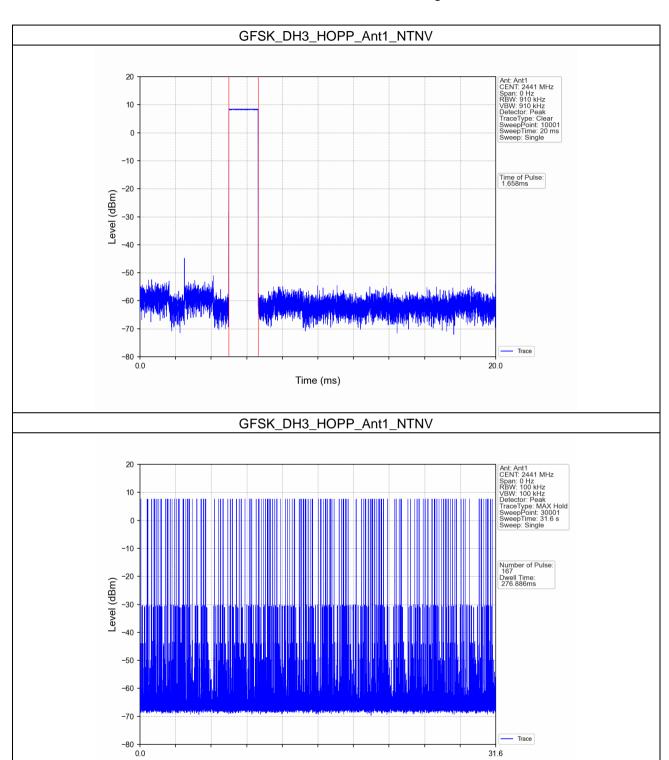
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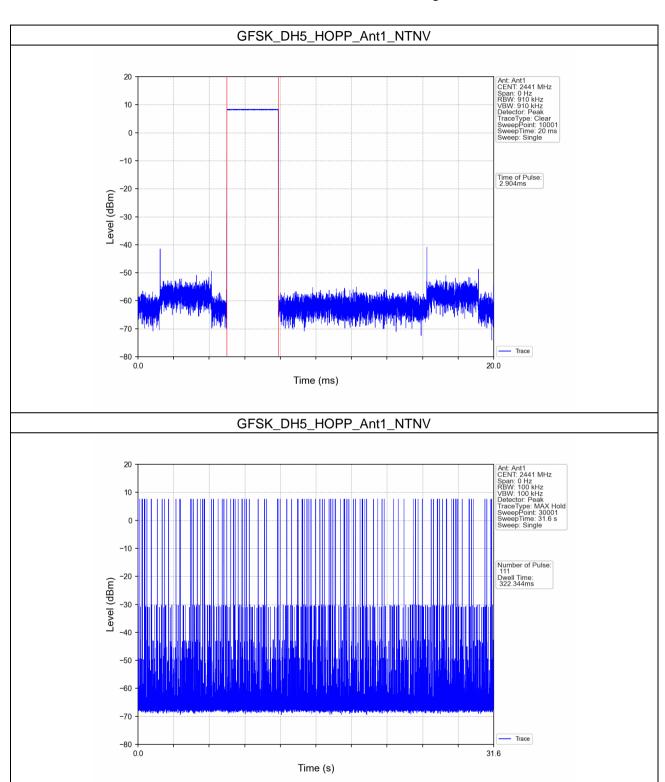
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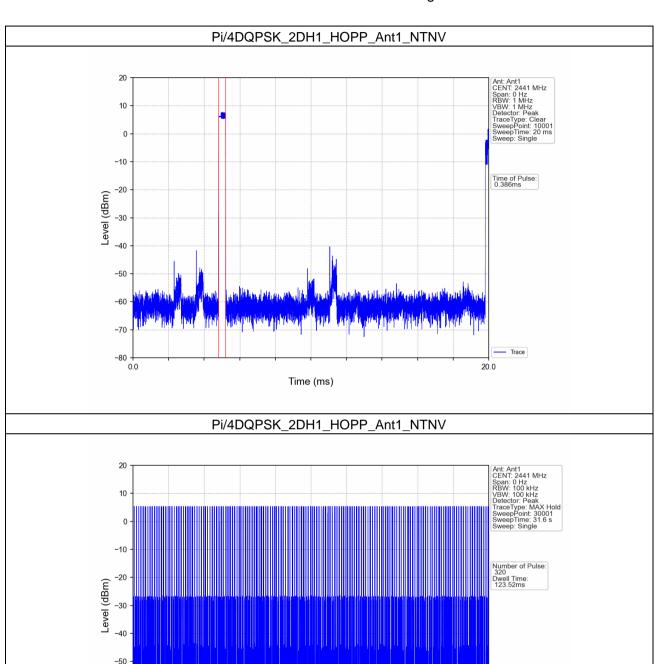
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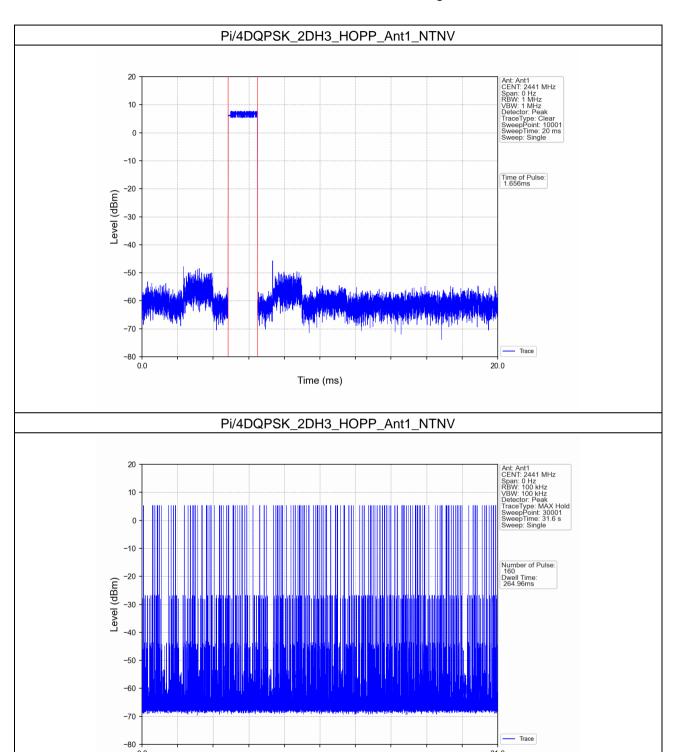
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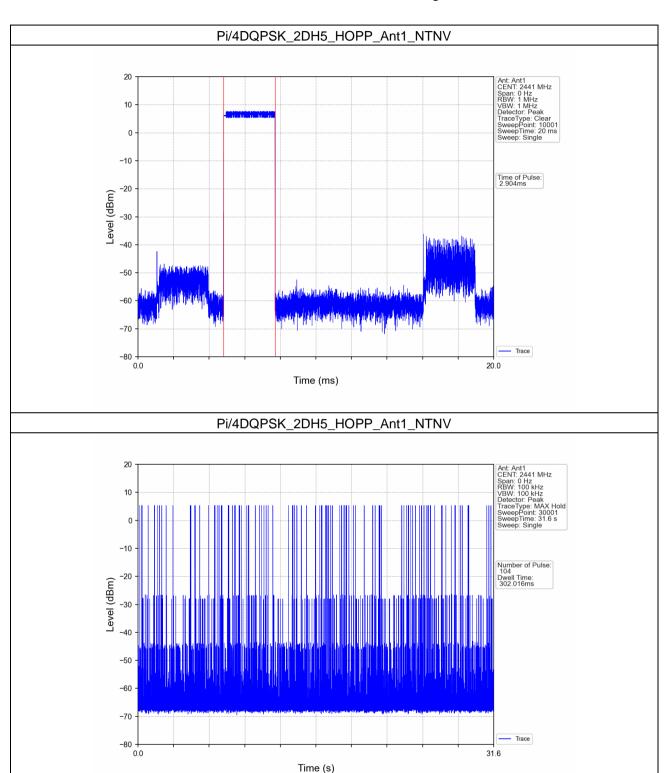
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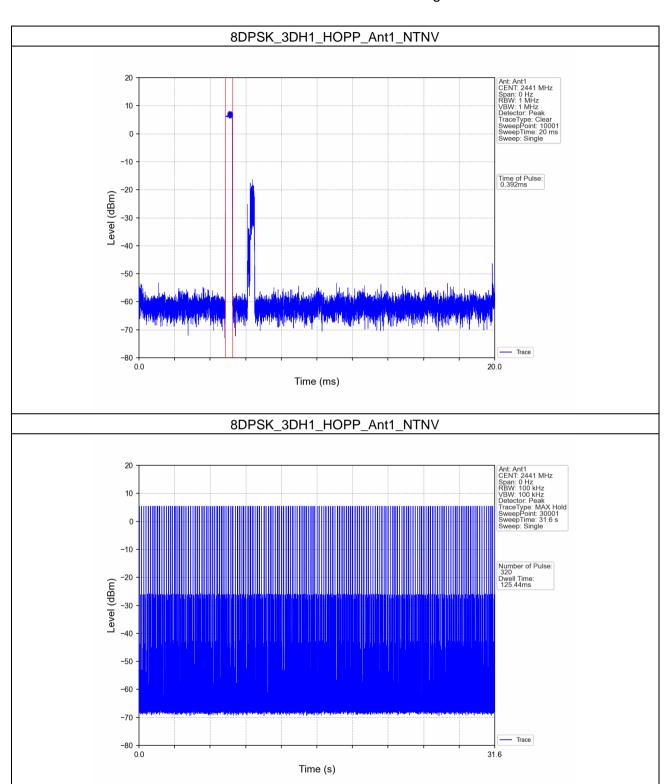
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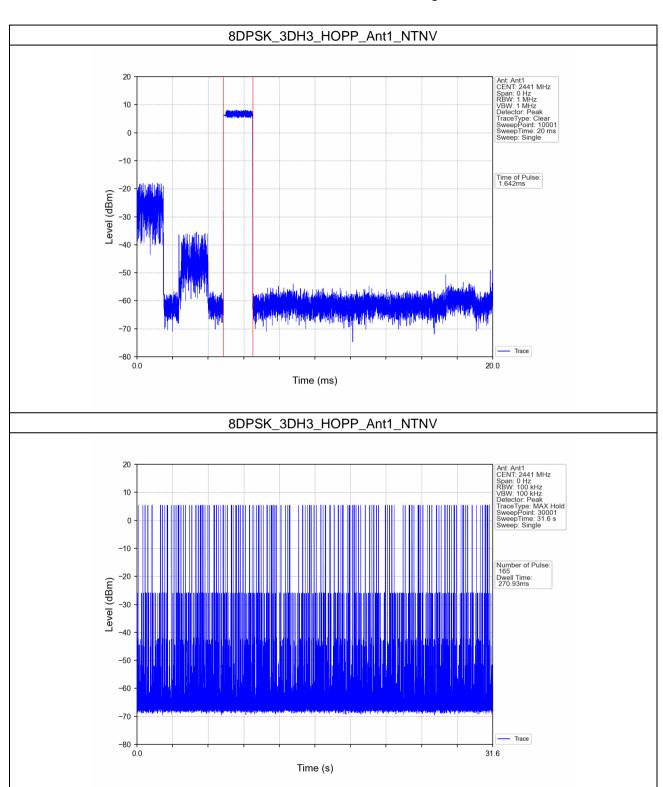
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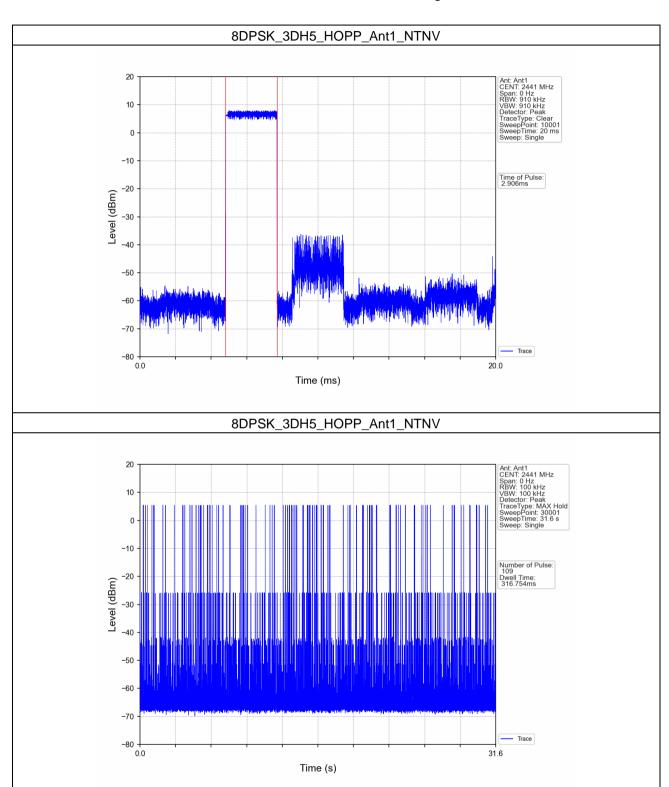
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#### 6. Unwanted Emissions In Non-restricted Frequency Bands

#### 6.1 Ref

#### 6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
	212.0	2402	DH5	1	8.67
GFSK	SISO	2441	DH5	1	8.44
		2480	DH5	1	8.37
	SISO	2402	2DH5	1	6.35
Pi/4DQPSK		2441	2DH5	1	5.97
		2480	2DH5	1	5.93
8DPSK		2402	3DH5	1	6.54
	SISO	2441	3DH5	1	6.18
		2480	3DH5	1	6.10

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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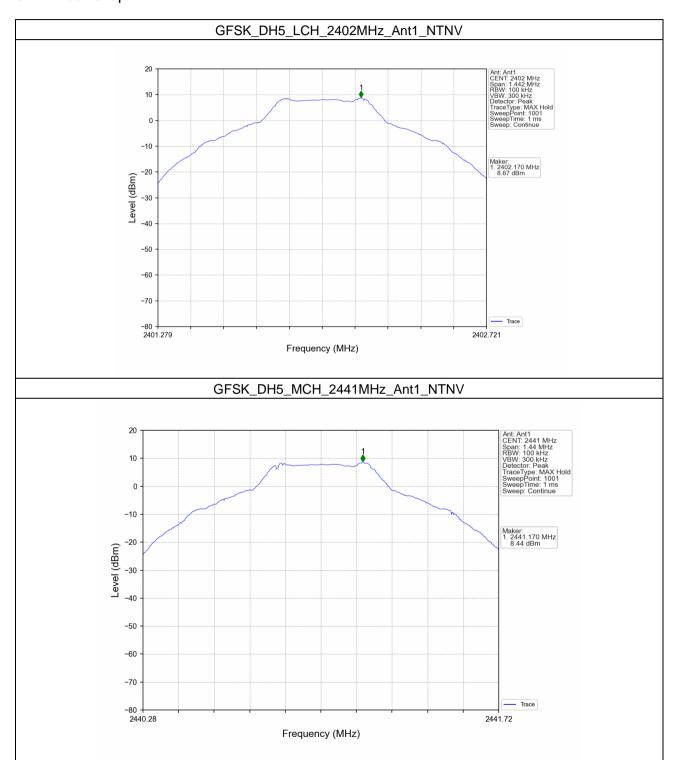


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#### 6.1.2 Test Graph





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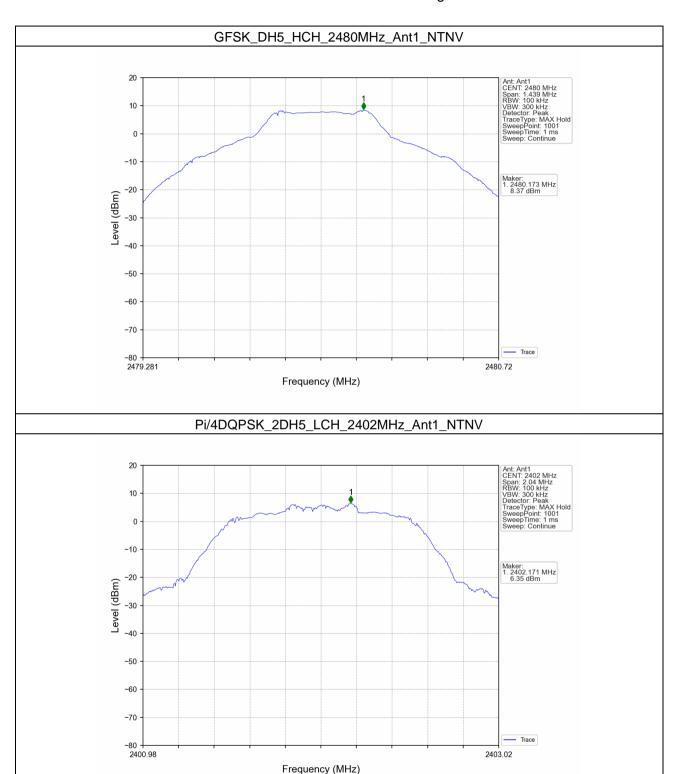
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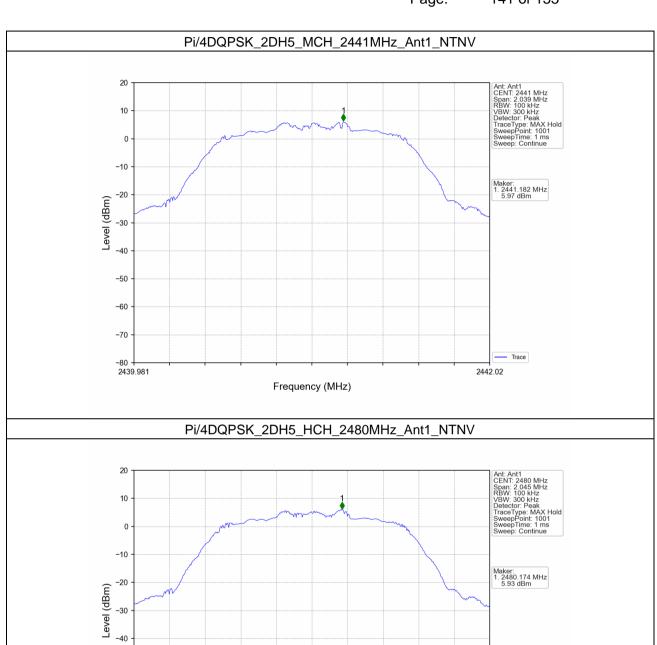
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Frequency (MHz)

Trace

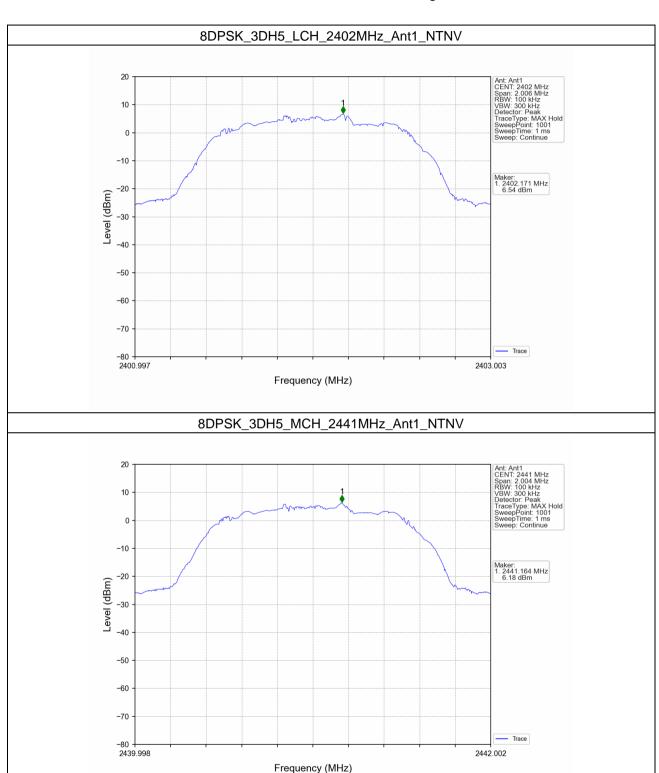
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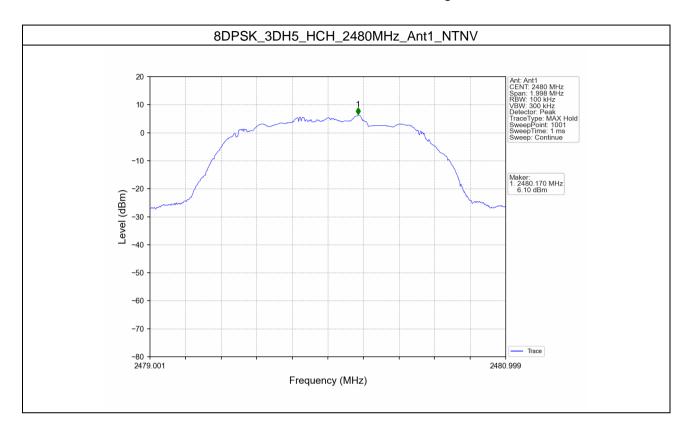
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#### 6.2 CSE

#### 6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	1	8.67	-11.33	Pass
		2441	DH5	1	8.67	-11.33	Pass
GFSK	SISO	2480	DH5	1	8.67	-11.33	Pass
		HODD	DHE	4	8.67	-11.33	Pass
		HOPP	DH5	1	8.67	-11.33	Pass
	SISO	2402	2DH5	1	6.35	-13.65	Pass
		2441	2DH5	1	6.35	-13.65	Pass
Pi/4DQPSK		2480	2DH5	1	6.35	-13.65	Pass
		НОРР	2DH5	1	6.35	-13.65	Pass
					6.35	-13.65	Pass
		2402	3DH5	1	6.54	-13.46	Pass
		2441	3DH5	1	6.54	-13.46	Pass
8DPSK	SISO	2480	3DH5	1	6.54	-13.46	Pass
		HOPP	20115	4	6.54	-13.46	Pass
			3DH5	1	6.54	-13.46	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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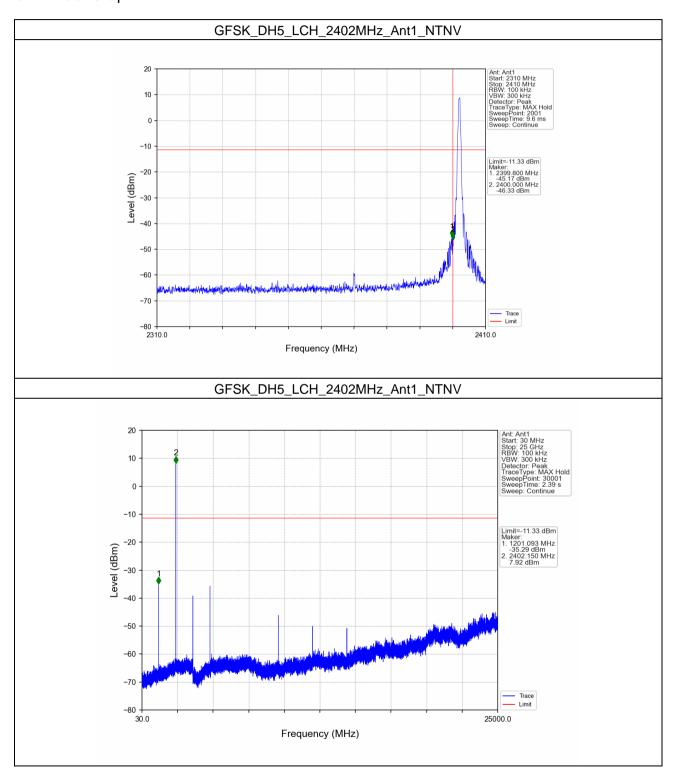


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#### 6.2.2 Test Graph





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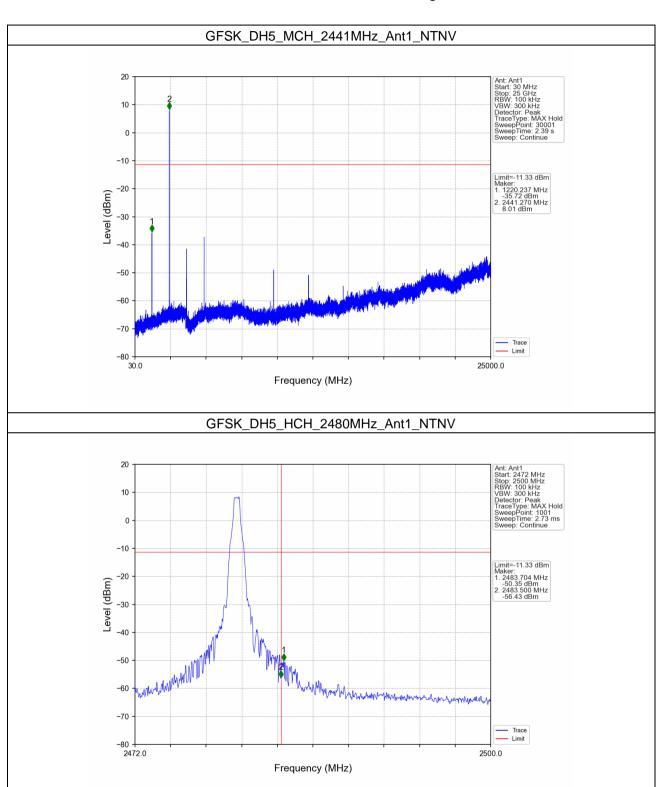
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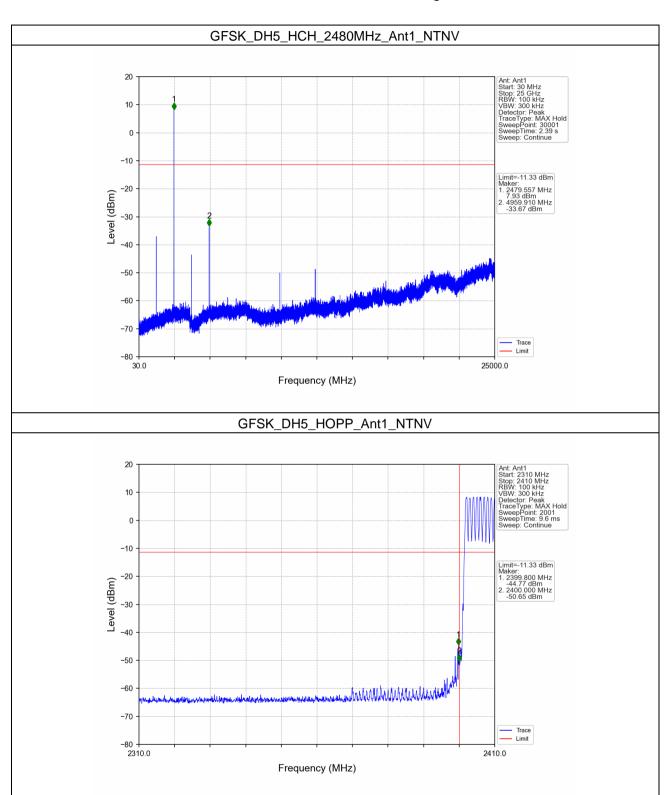
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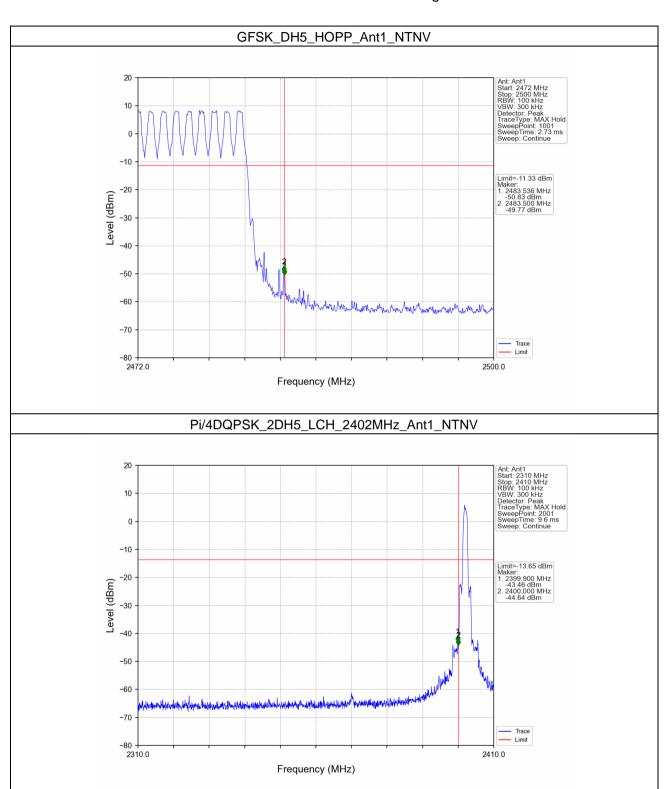
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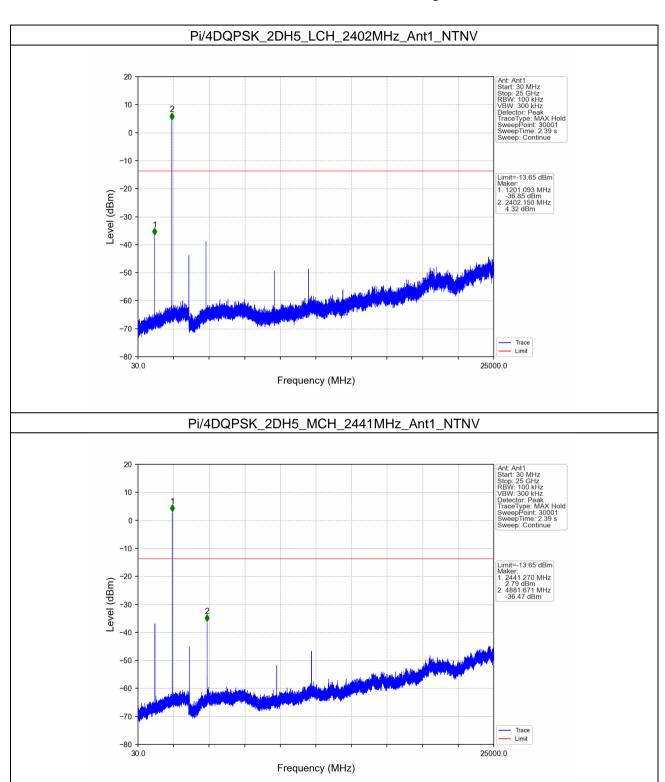
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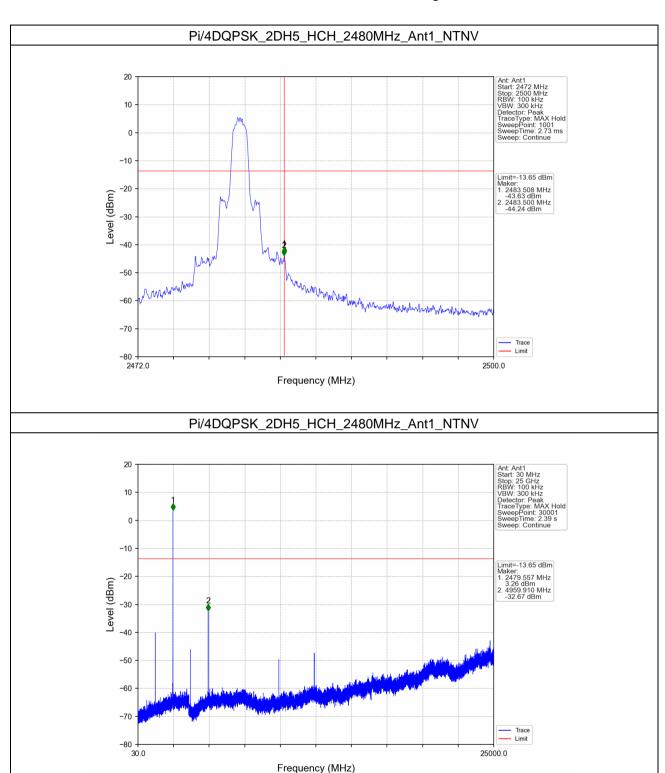
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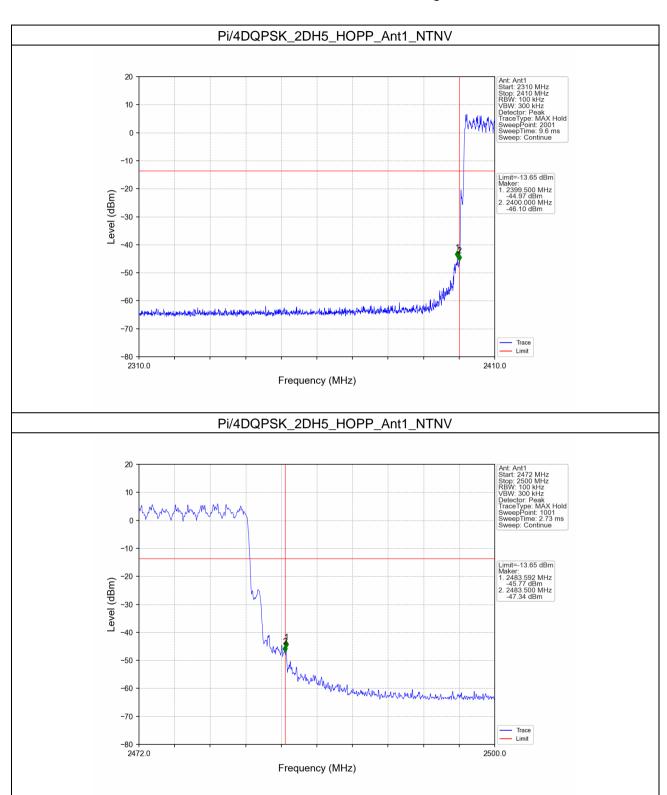
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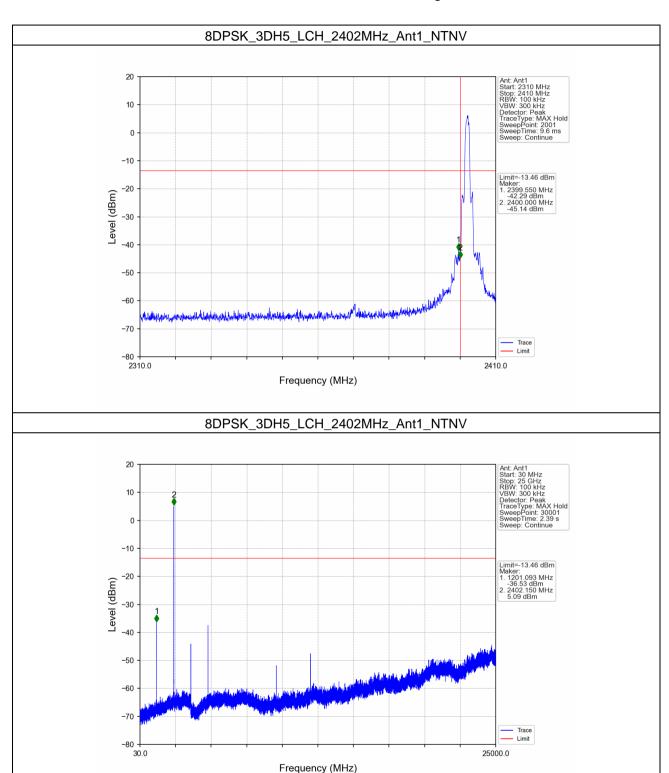
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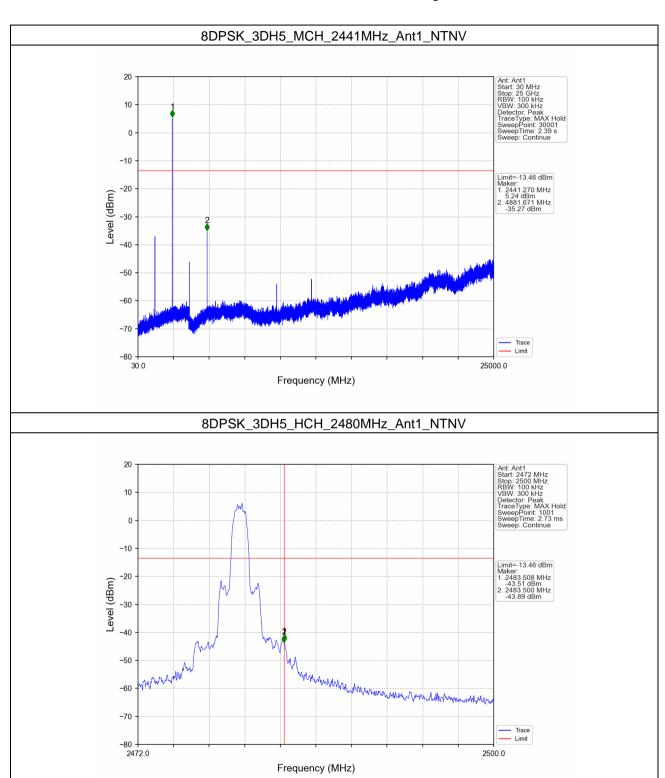
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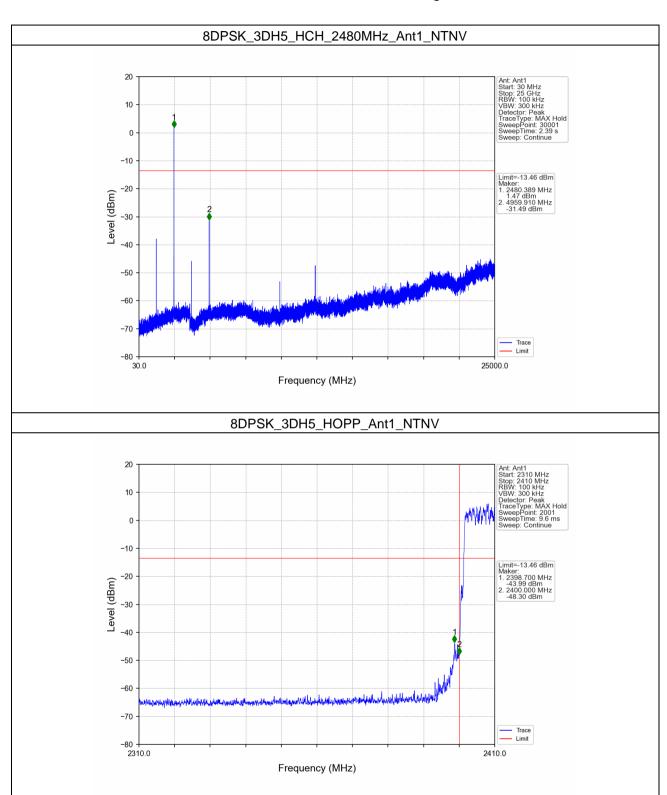
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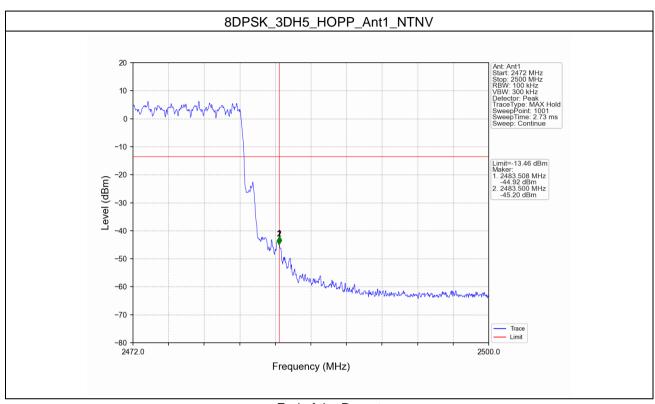
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