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Appendix B for SHEM210600600602

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
		2402	DH5	1	0.74	/	Note1
GFSK	SISO	2441	DH5	1	0.74	/	Note1
		2480	DH5	1	0.75	/	Note1
	SISO	2402	2DH5	1	1.13	/	Note1
Pi/4DQPSK		2441	2DH5	1	1.13	/	Note1
		2480	2DH5	1	1.14	/	Note1
	SISO	2402	3DH5	1	1.15	/	Note1
8DPSK		2441	3DH5	1	1.15	/	Note1
		2480	3DH5	1	1.18	/	Note1
Note1: Only fo	r Report U	lse					



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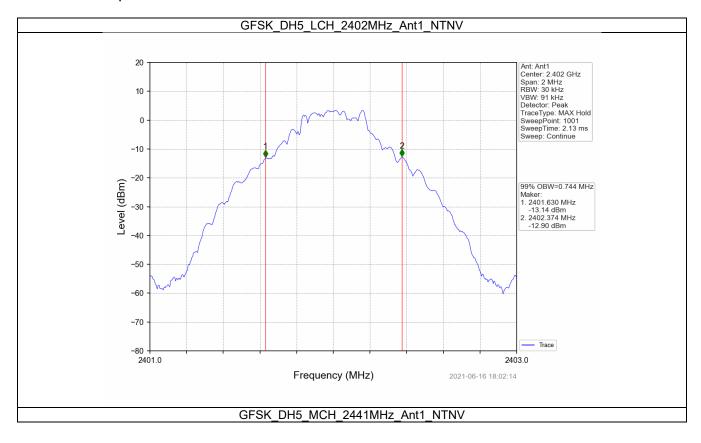
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1.1.2 Test Graph





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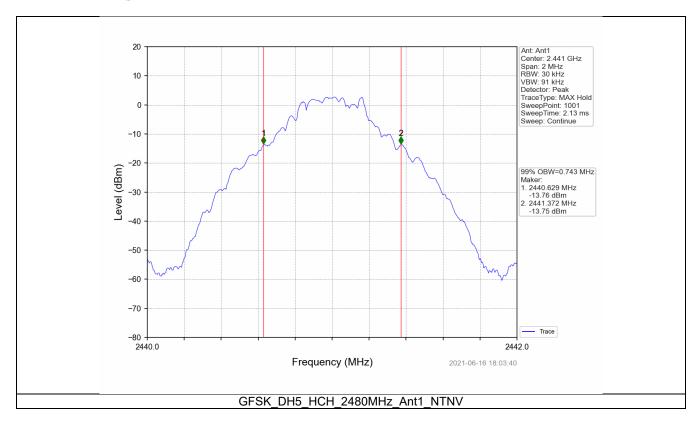
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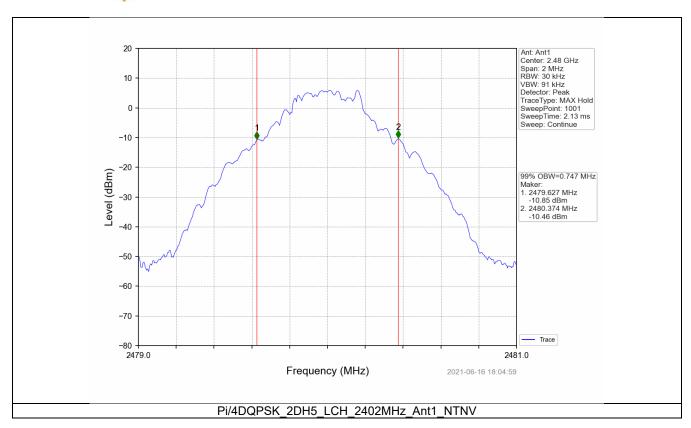
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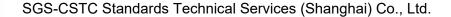
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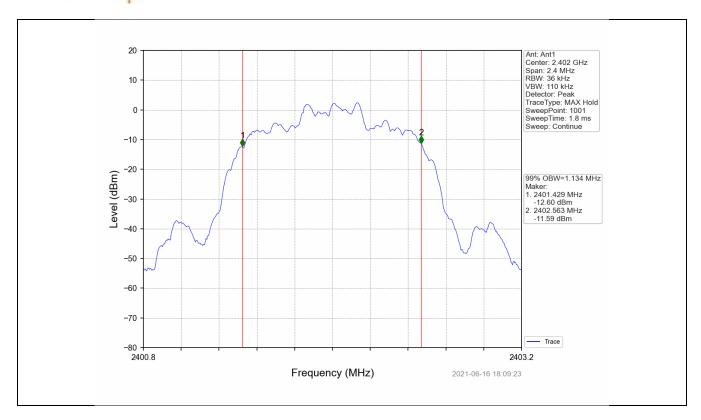
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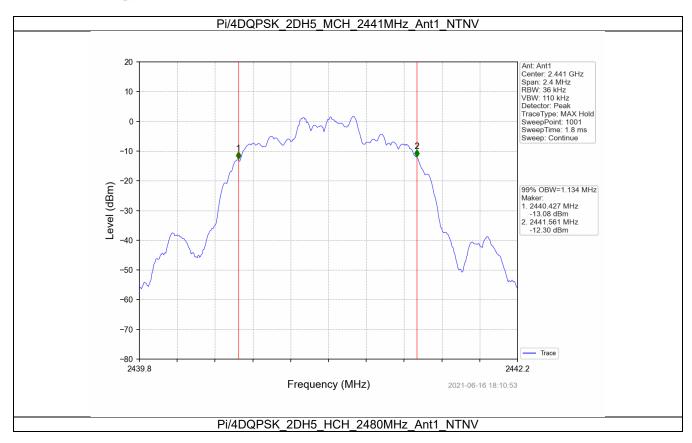
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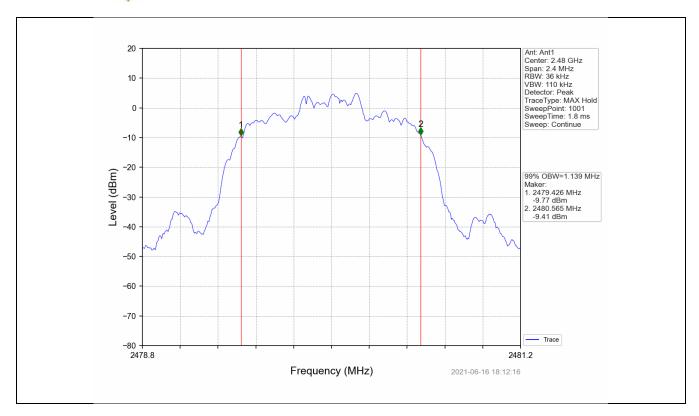
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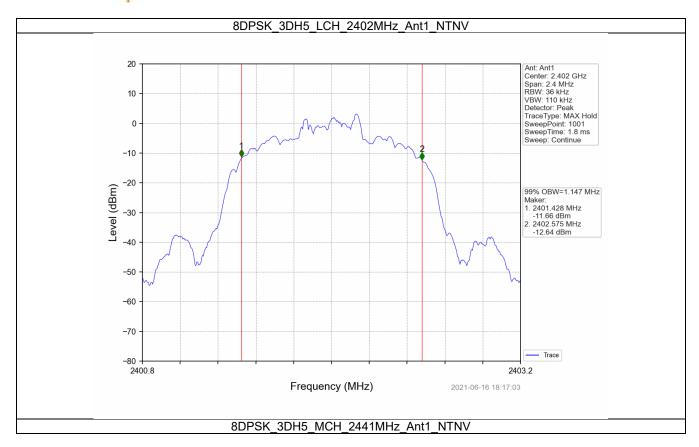
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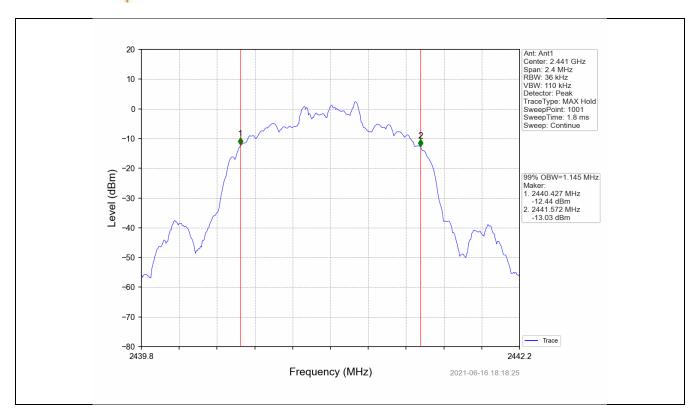
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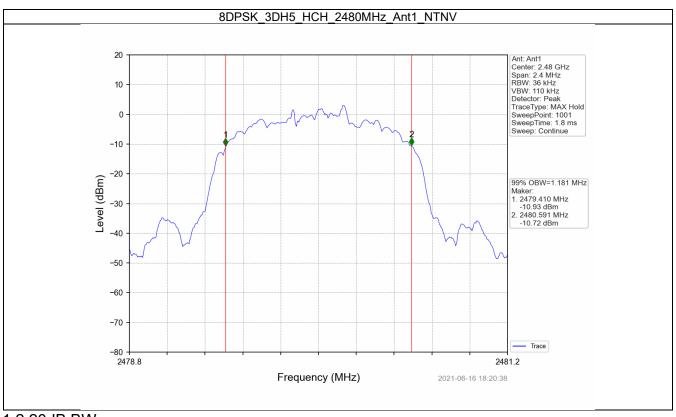
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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Limit	Verdict		
		2402	DH5	1	0.85	/	Note1		
GFSK	SISO	2441	DH5	1	0.85	/	Note1		
		2480	DH5	1	0.85	/	Note1		
	SISO	2402	2DH5	1	1.27	/	Note1		
Pi/4DQPSK		2441	2DH5	1	1.27	/	Note1		
		2480	2DH5	1	1.28	/	Note1		
	SISO	2402	3DH5	1	1.28	/	Note1		
8DPSK		2441	3DH5	1	1.28	/	Note1		
		2480	3DH5	1	1.31	/	Note1		
Note1: Only fo	Note1: Only for Report Use								

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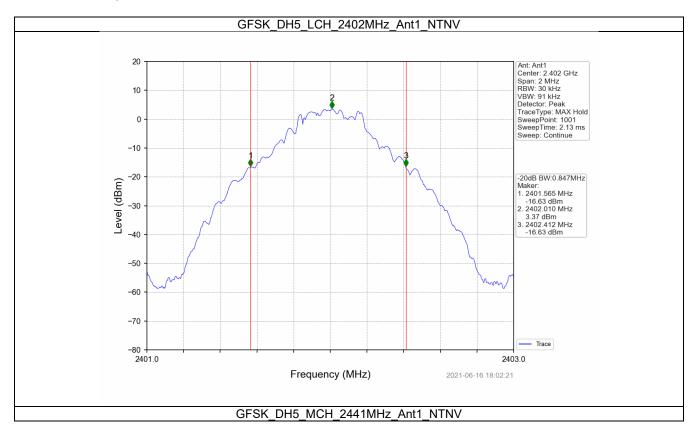
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1.2.2 Test Graph





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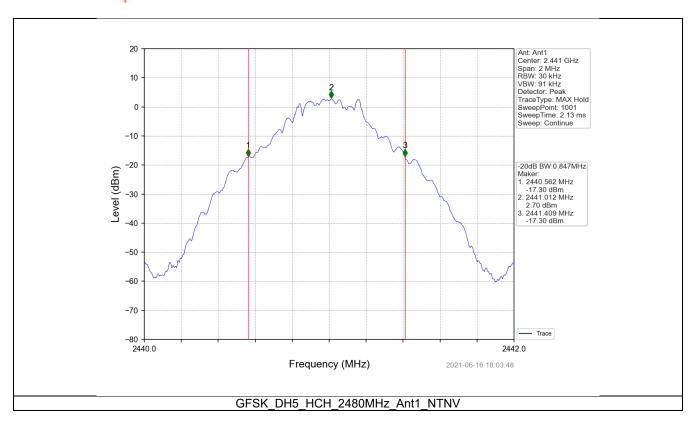
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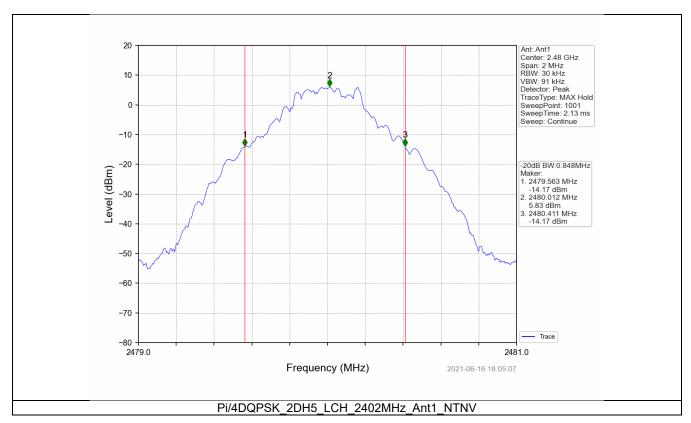
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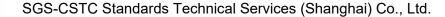
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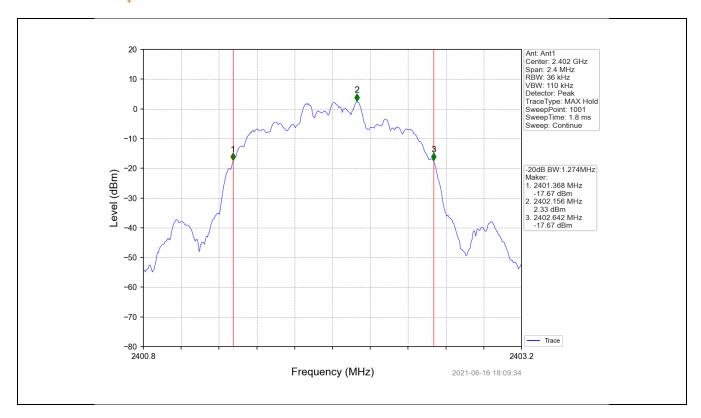
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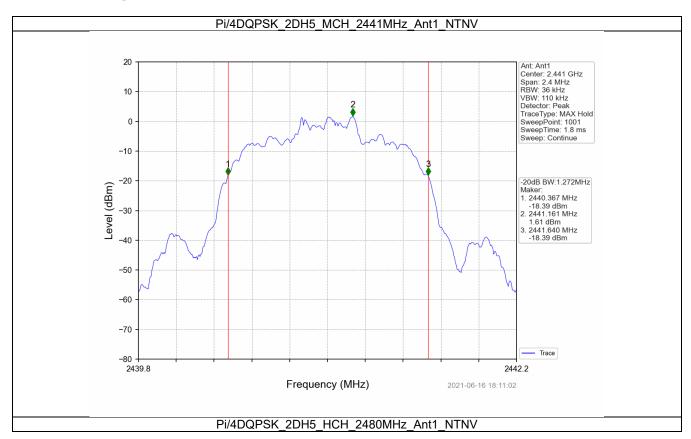
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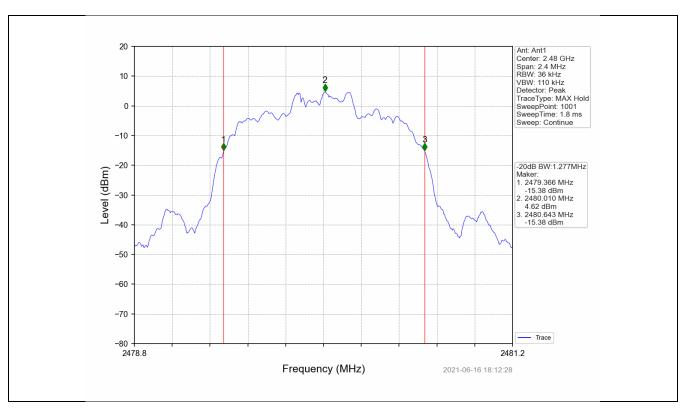
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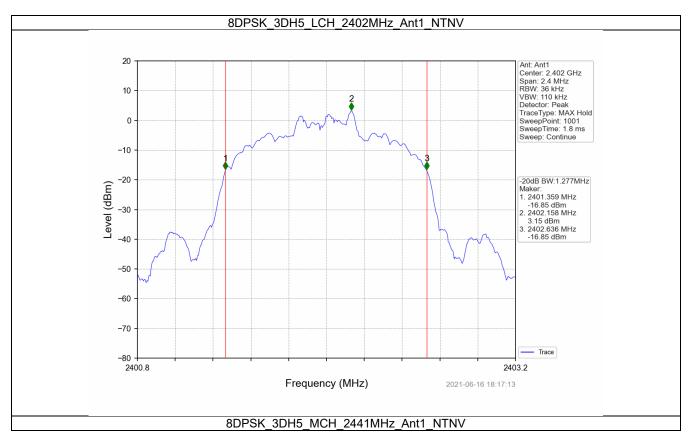
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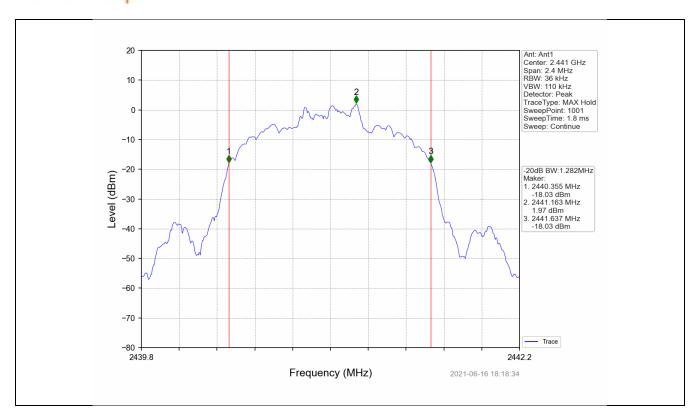
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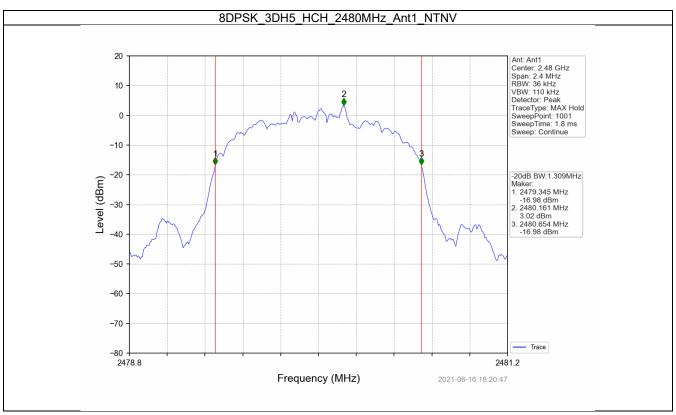


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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type Measured Peak Output Power (dBm) Ant1		Limit (dBm)	Verdict		
	7.	2402	DH5	5.71	<=30	Pass		
GFSK	SISO	2441	DH5	5.01	<=30	Pass		
		2480	DH5	5.23	<=30	Pass		
	SISO	2402	2DH5	4.99	<=20.97	Pass		
Pi/4DQPSK		2441	2DH5	4.36	<=20.97	Pass		
		2480	2DH5	4.53	<=20.97	Pass		
		2402	3DH5	4.95	<=20.97	Pass		
8DPSK	SISO	2441	3DH5	4.28	<=20.97	Pass		
		2480	3DH5	4.55	<=20.97	Pass		
Note1: Ante	Note1: Antenna Gain: 1: 2.00dBi;							

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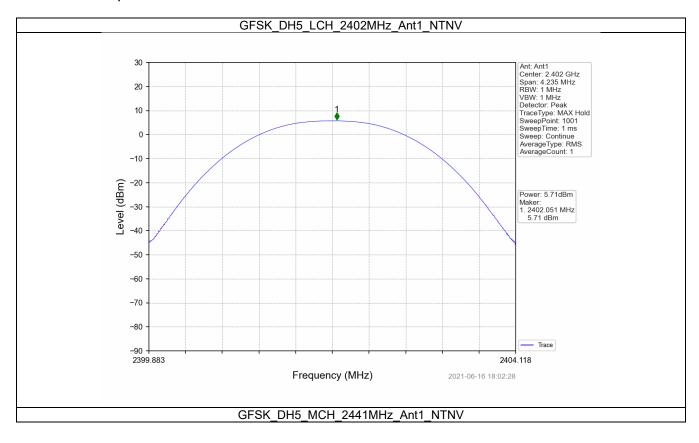
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2.1.2 Test Graph





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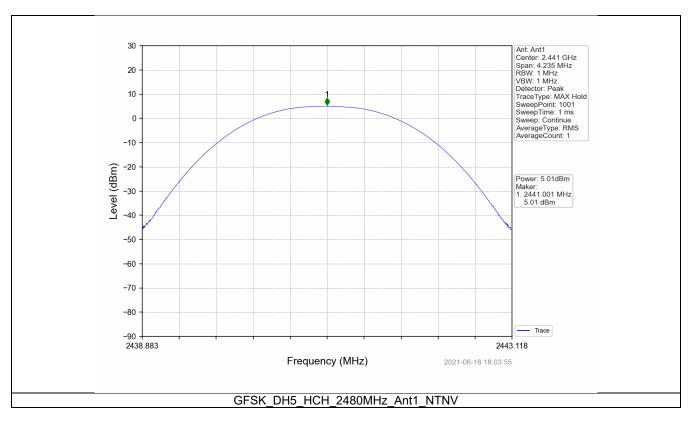
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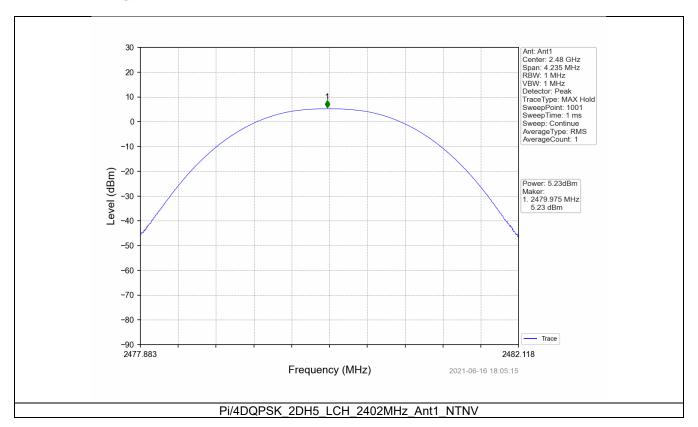
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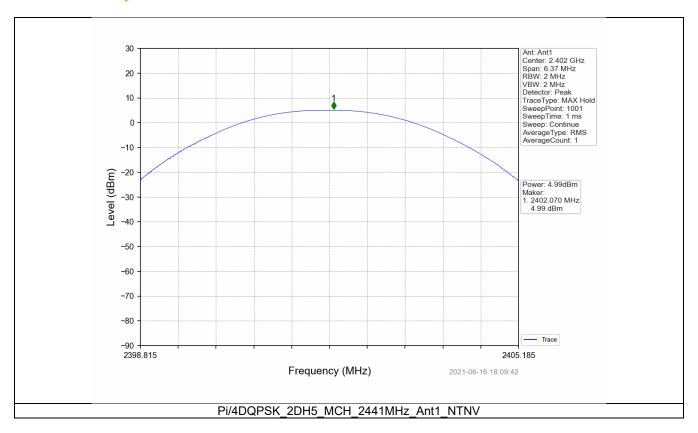
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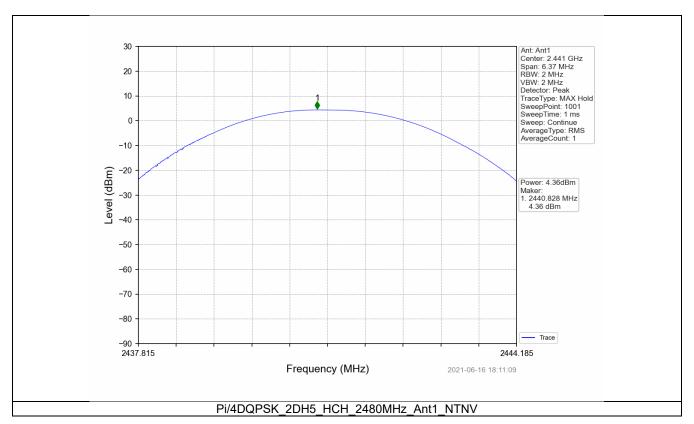
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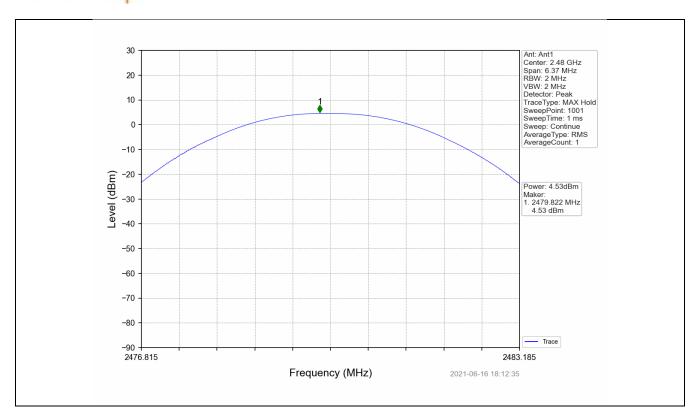
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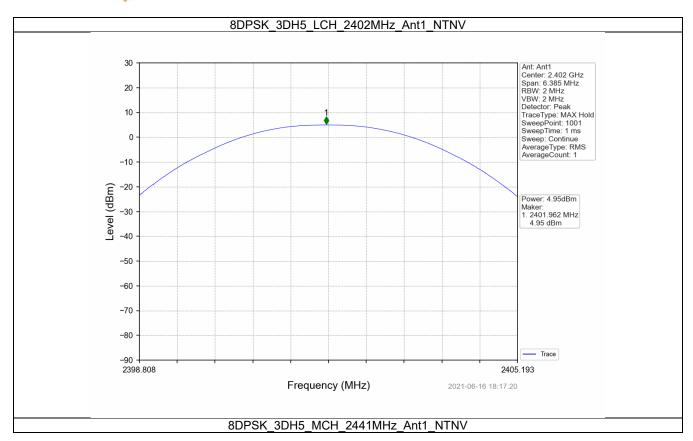
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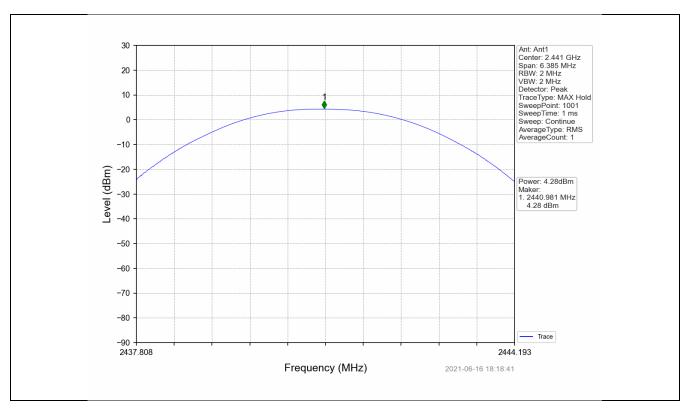
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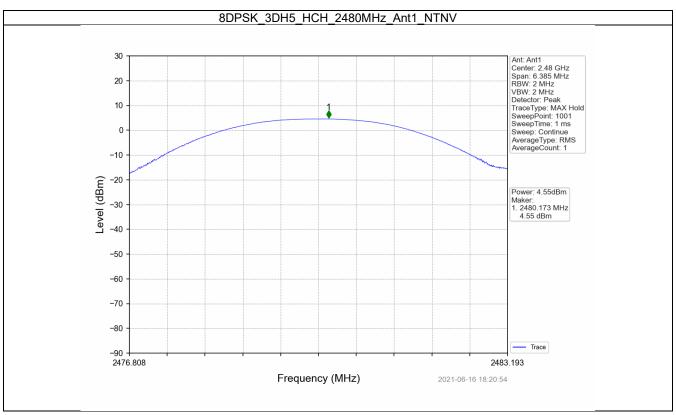
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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

	Ant1										
Mode	ТХ Туре	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict				
GFSK	SISO	HOPP	DH5	0.98	0.85	>=0.847	Pass				
Pi/4DQPSK	SISO	HOPP	2DH5	1.02	1.27	>=0.849	Pass				
8DPSK	SISO	HOPP	3DH5	1.00	1.28	>=0.851	Pass				

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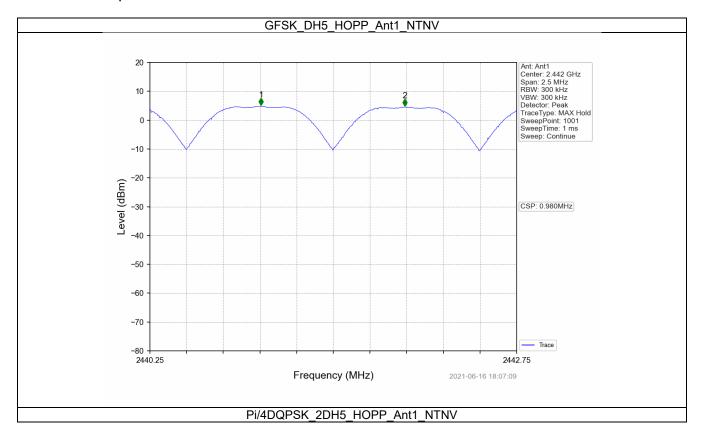
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3.1.2 Test Graph





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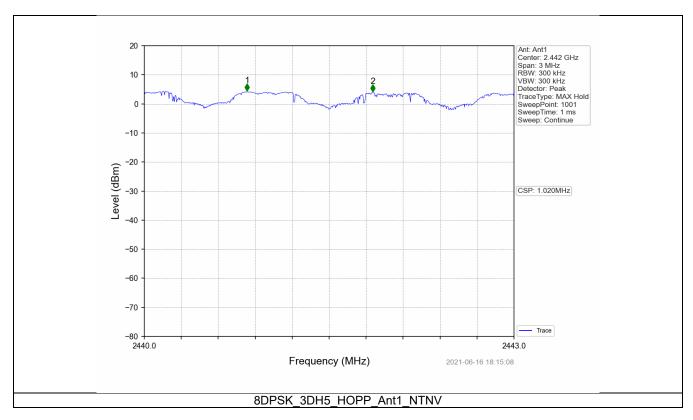
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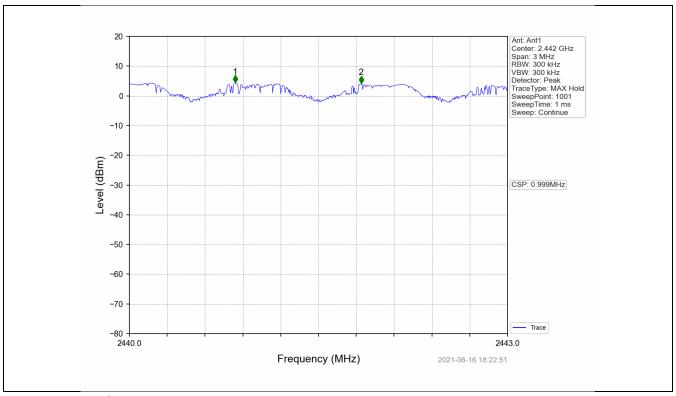
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies 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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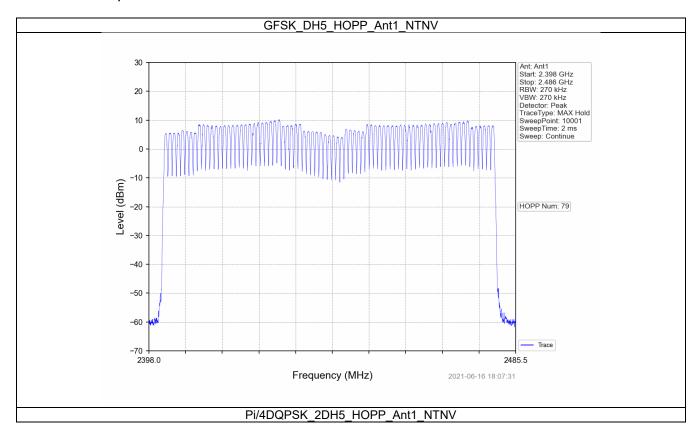
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4.1.2 Test Graph





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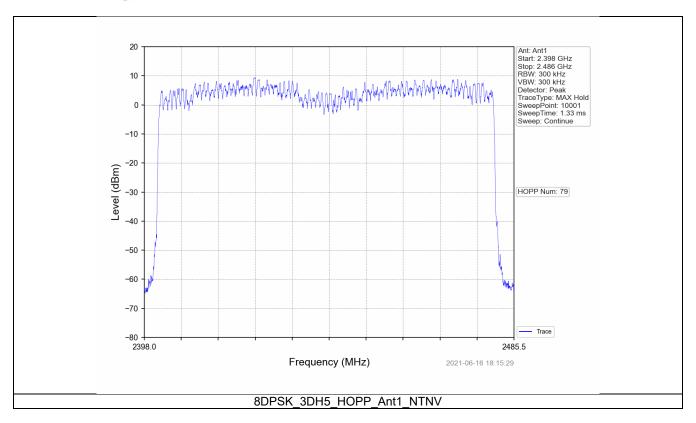
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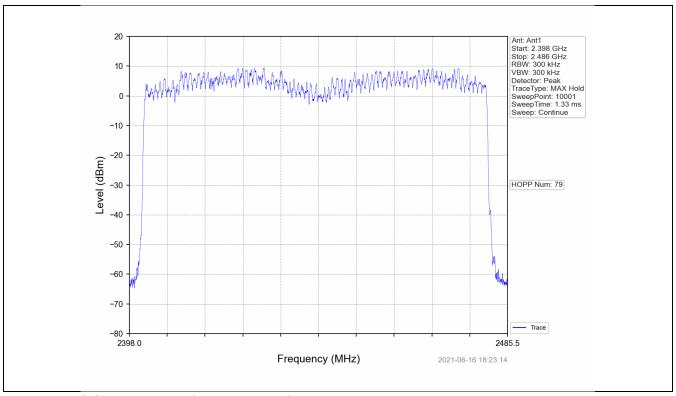
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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

	Ant1									
Mode	ТХ Туре	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	DH5	2.88	31.60	98	282.44	<=400	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	2.88	31.60	114	328.78	<=400	Pass	
8DPSK	SISO	HOPP	3DH5	2.89	31.60	108	312.12	<=400	Pass	



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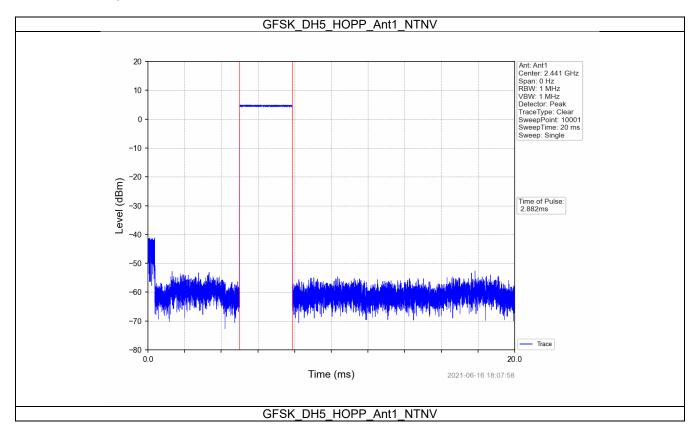
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5.1.2 Test Graph





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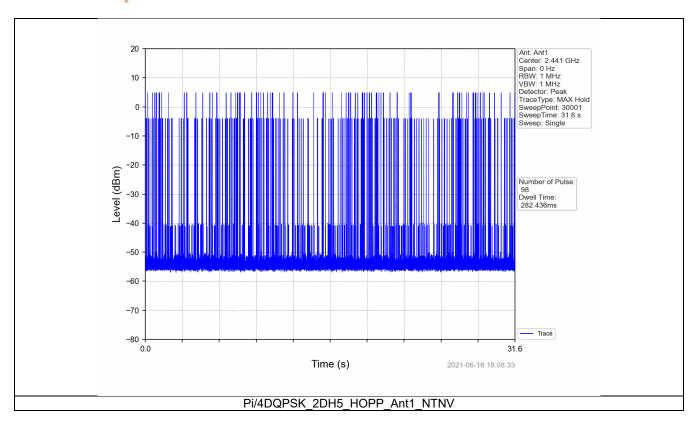
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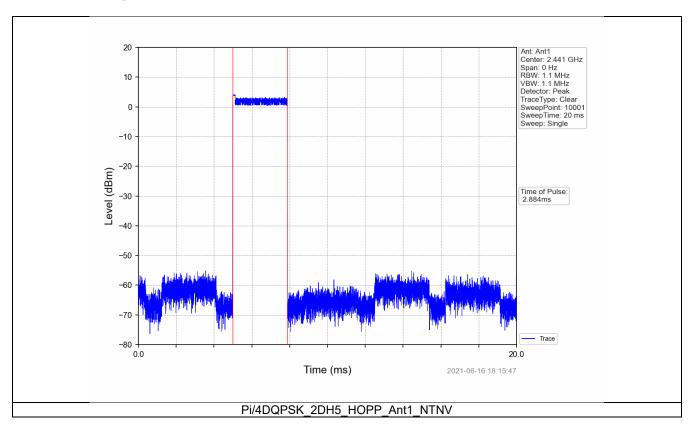
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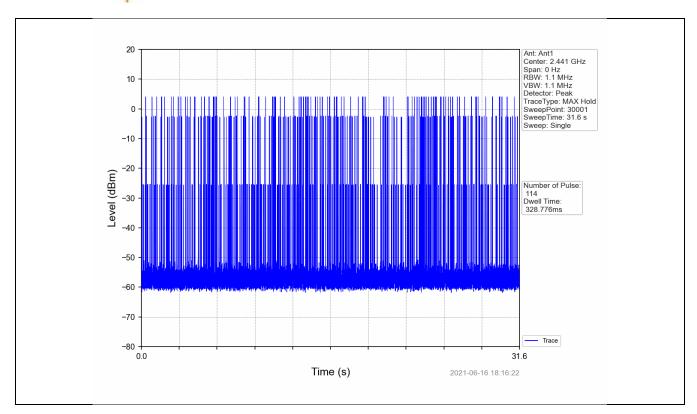
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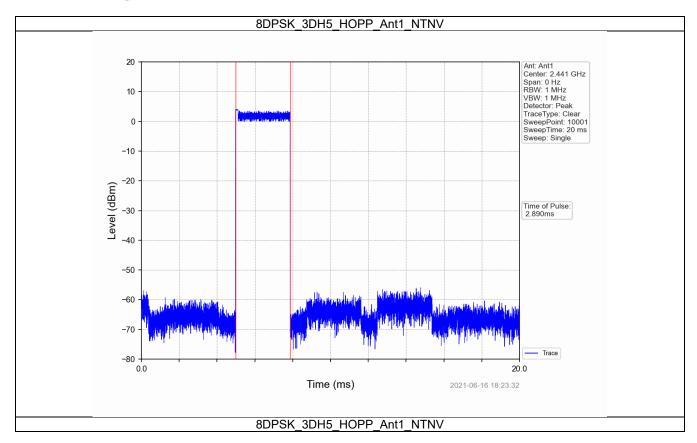
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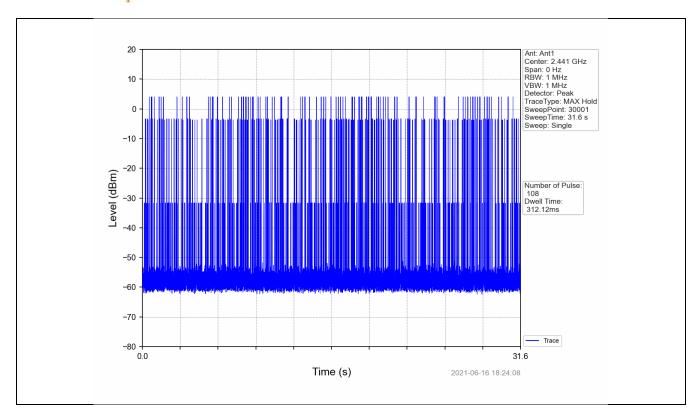
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	5.47	/	/
		2441	DH5	1	4.70	/	/
		2480	DH5	1	7.91	/	/
Pi/4DQPSK	SISO	2402	2DH5	1	4.83	/	/
		2441	2DH5	1	4.32	/	/
		2480	2DH5	1	7.44	/	/
8DPSK	SISO	2402	3DH5	1	4.88	/	/
		2441	3DH5	1	4.13	/	/
		2480	3DH5	1	4.39	/	/

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. Note2: Only for Report Use

6.1.2 Test Graph

GFSK DH5 LCH 2402MHz Ant1 NTNV



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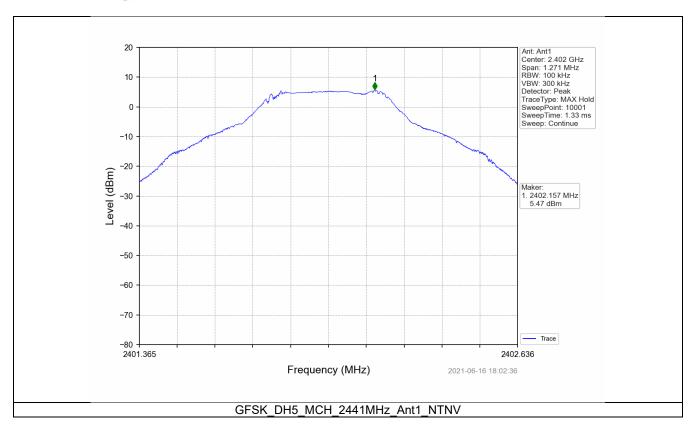
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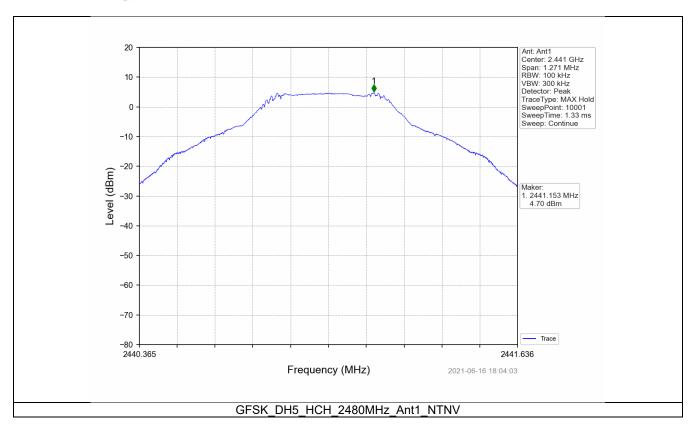
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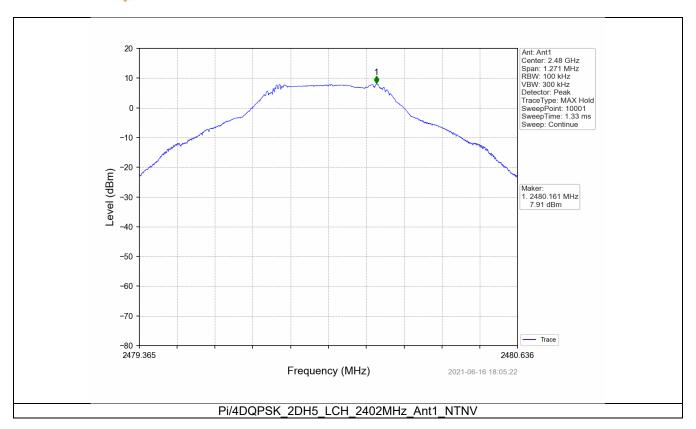
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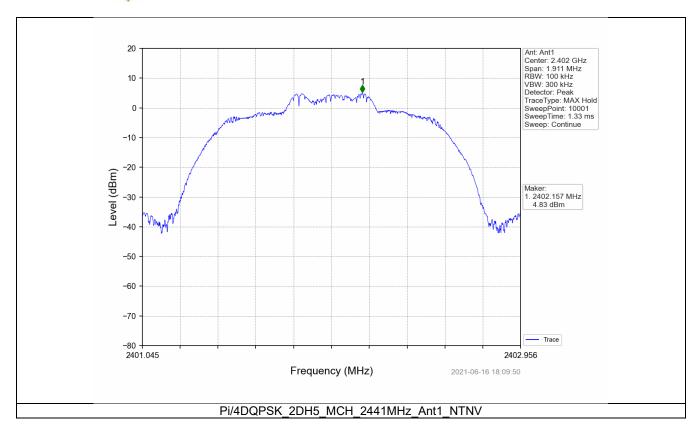
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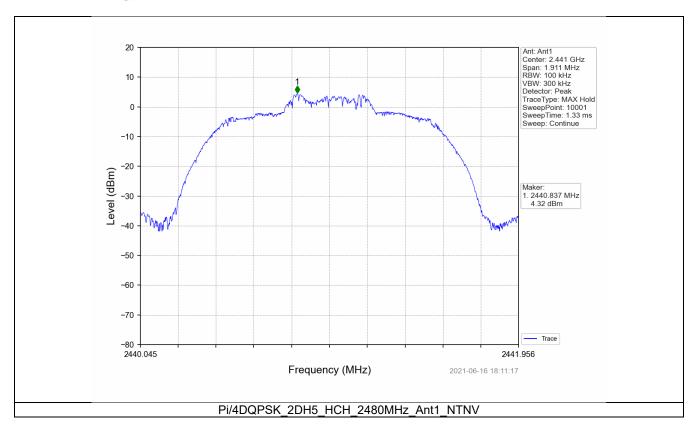
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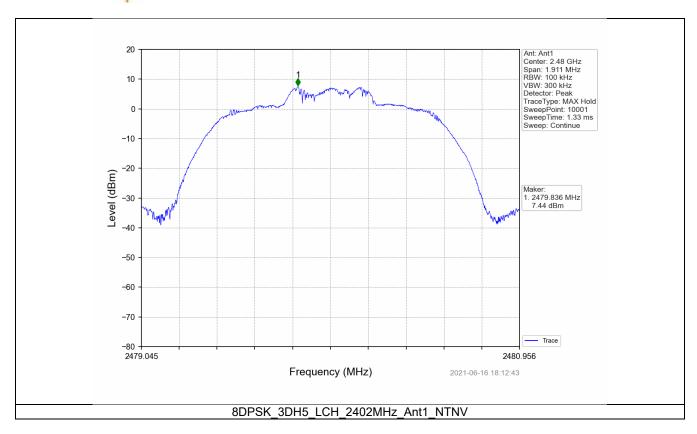
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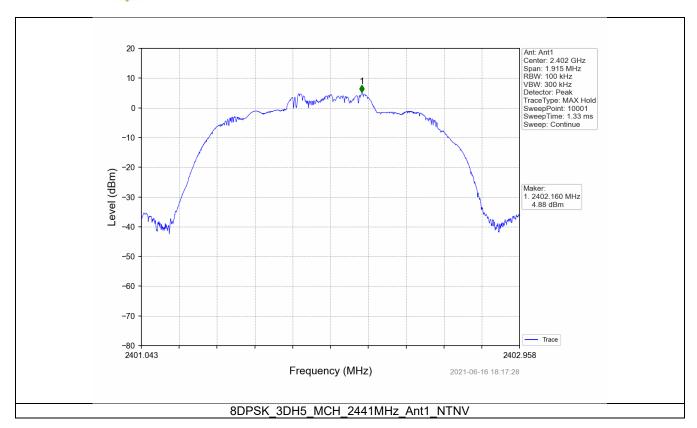
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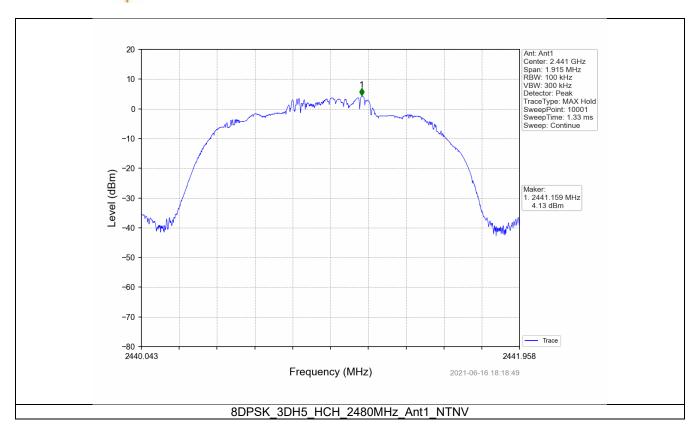
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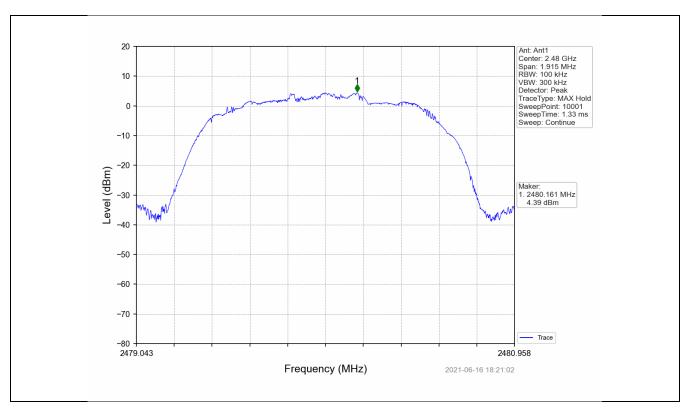
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6.2 CSE

6.2.1 Test Result

Mode	ТХ Туре	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
Pi/4DQPSK	SISO	2402	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	2DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
8DPSK	SISO	2402	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2441	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		2480	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2
		HOPP	3DH5	1	Refer To Test Graph	Refer To Test Graph	Note2

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.

Note2: Only for Report Use



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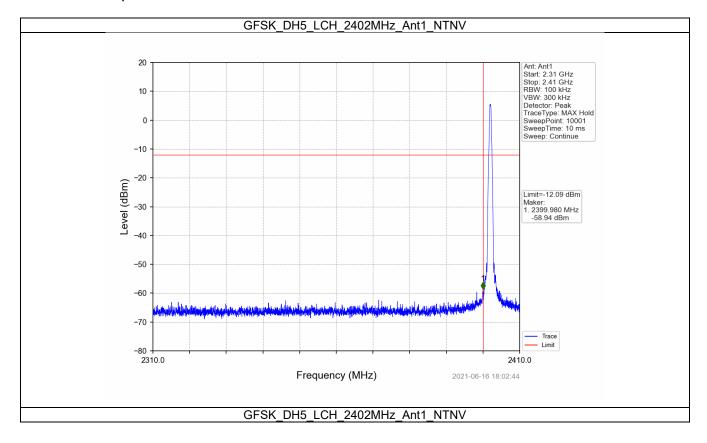
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6.2.2 Test Graph





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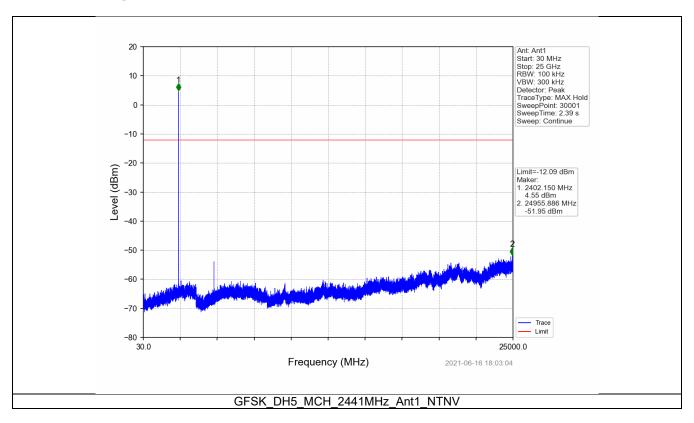
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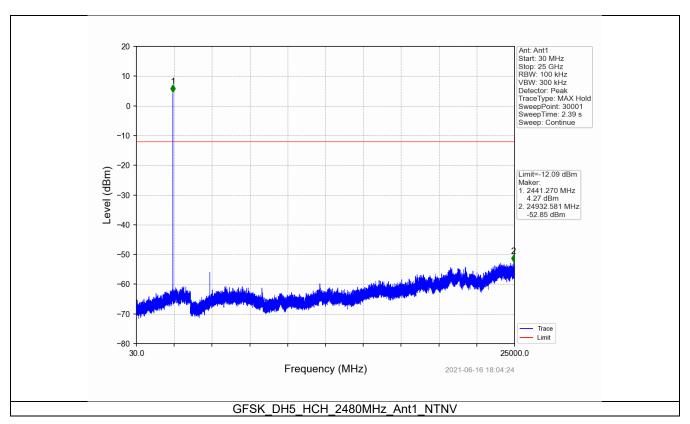
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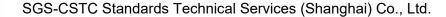


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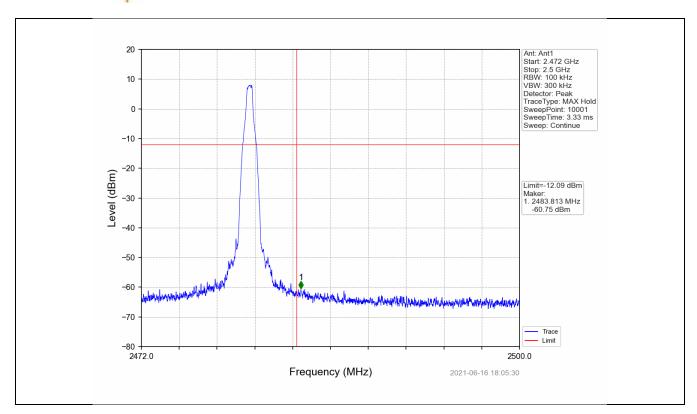
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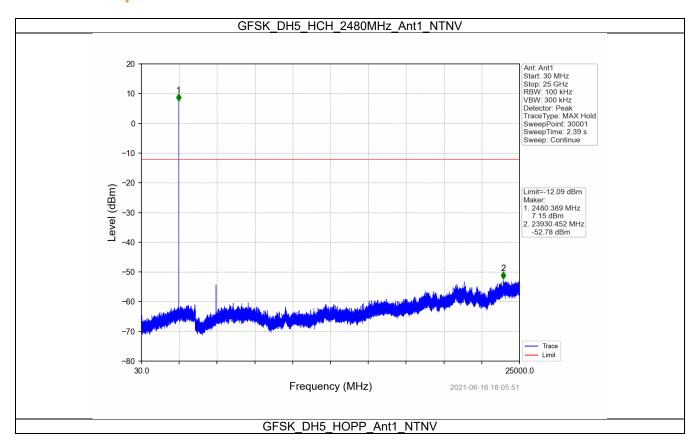
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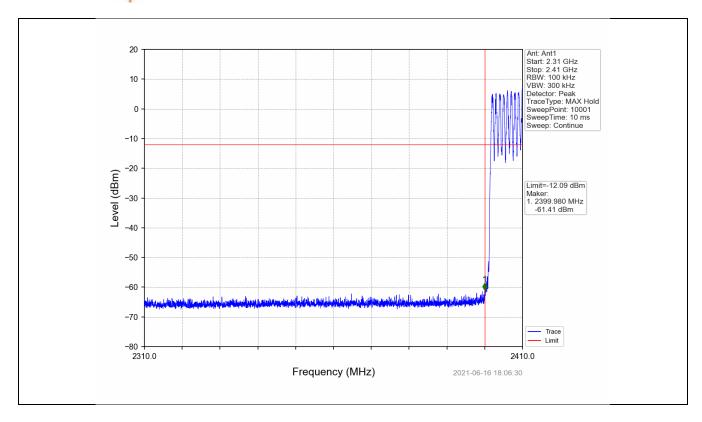
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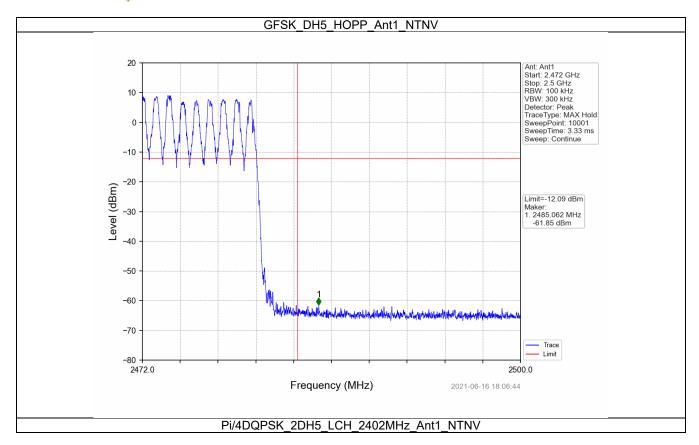
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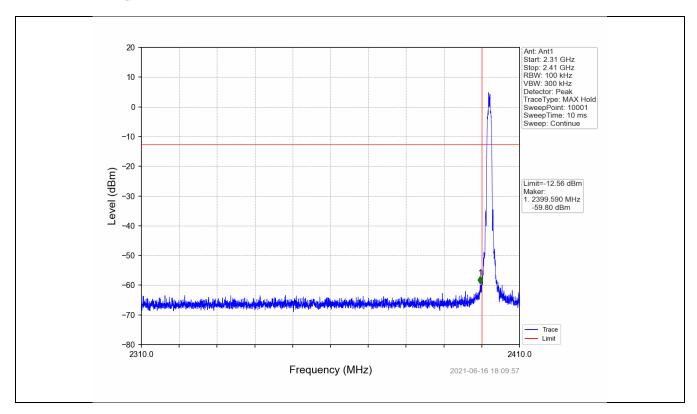
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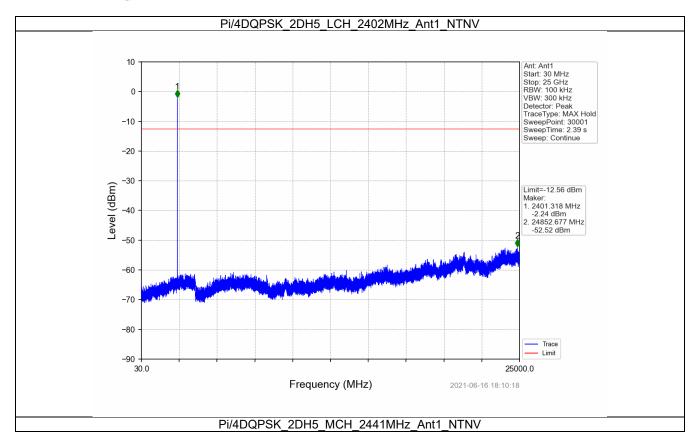
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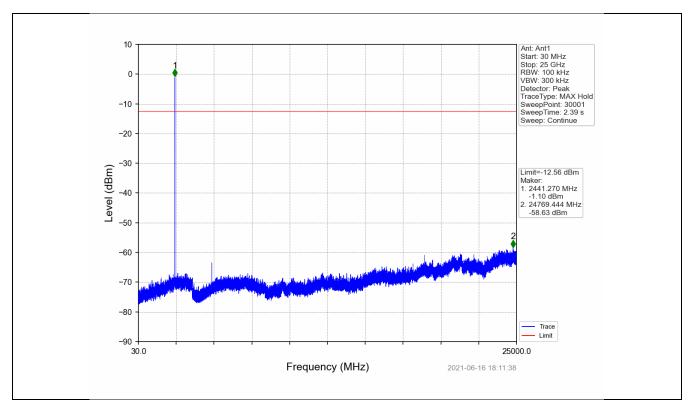
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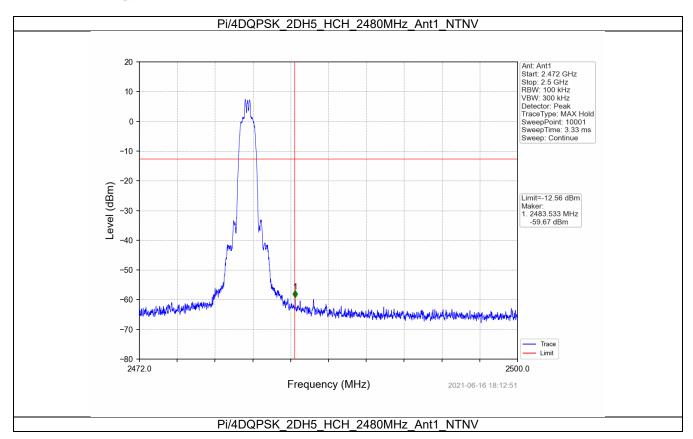
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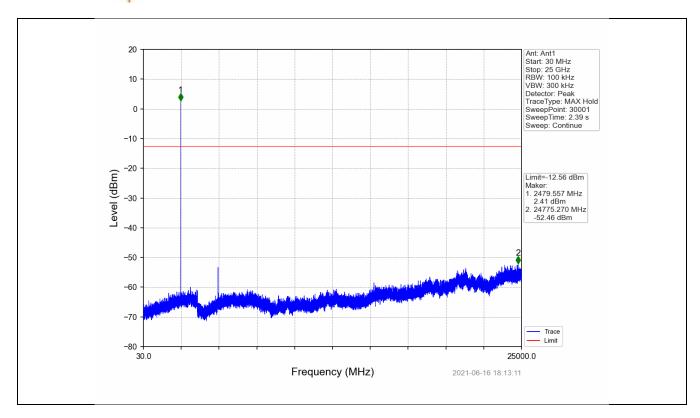
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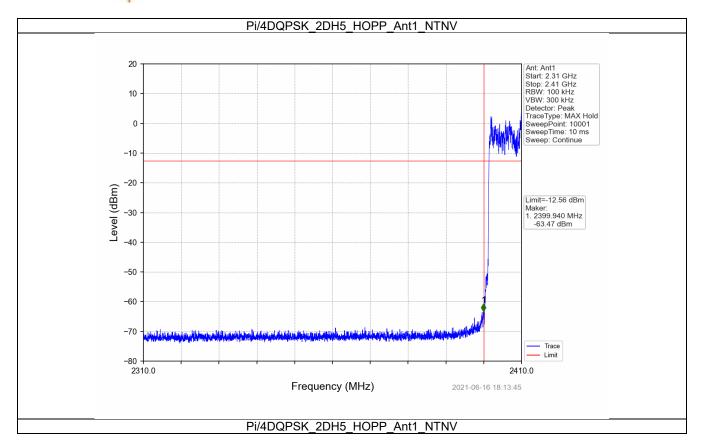
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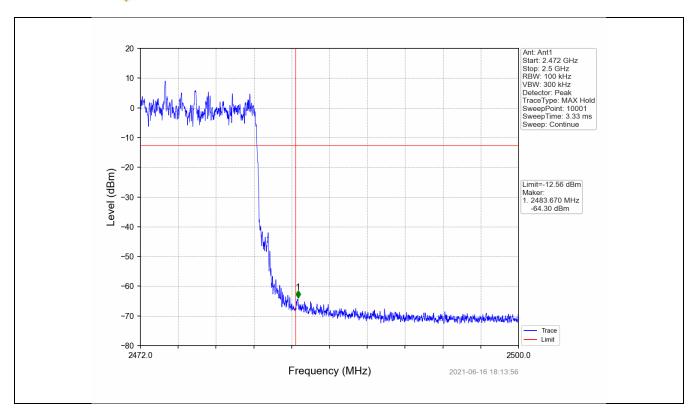
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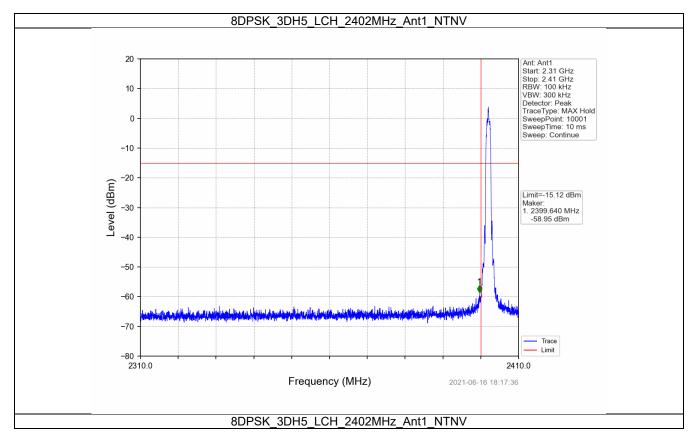
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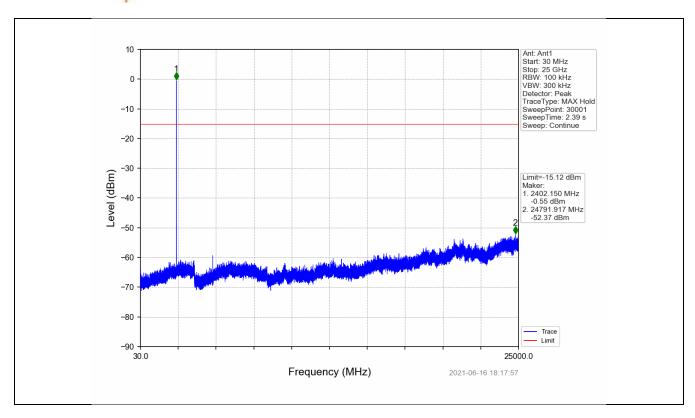
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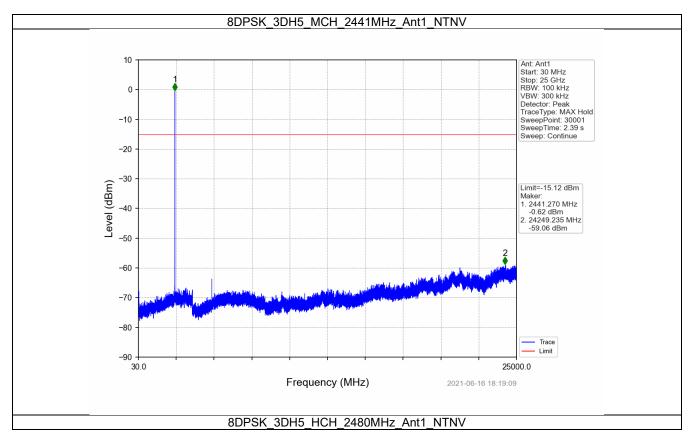
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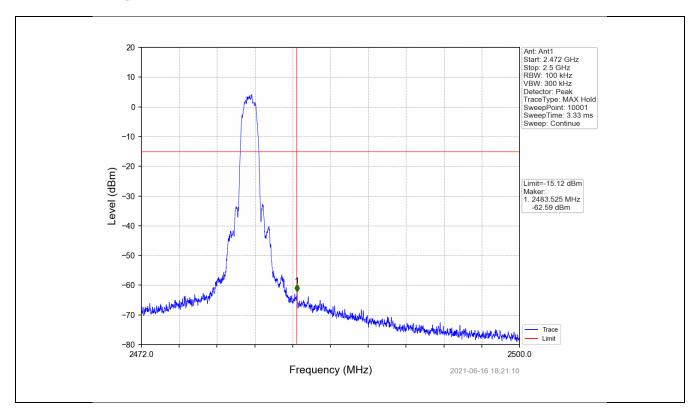
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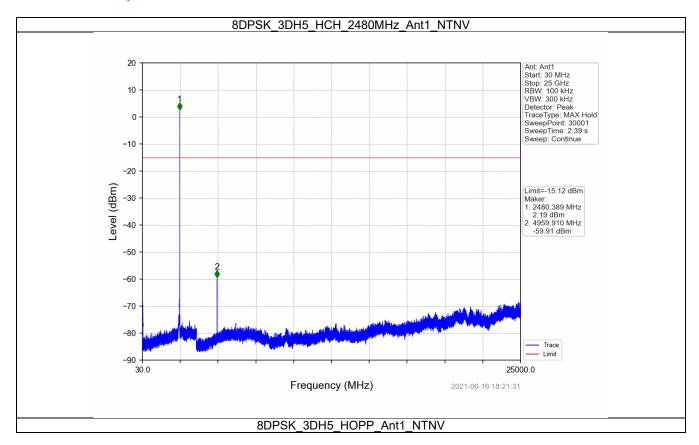
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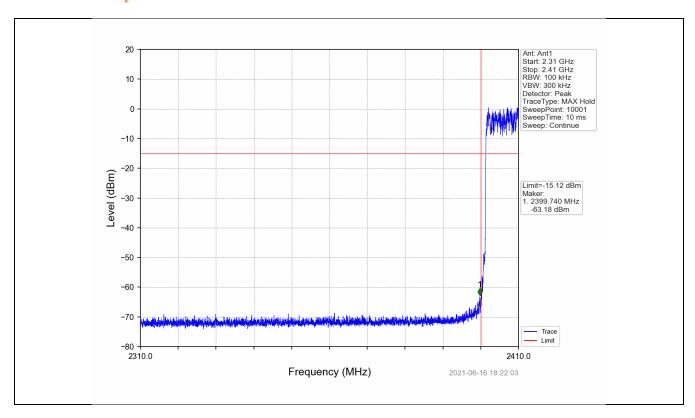
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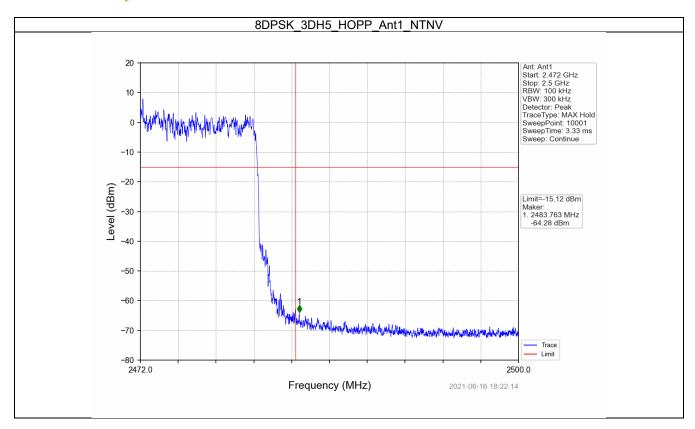
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