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Appendix B for SHEM210200133902

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX	Frequency	Packet	Ant	99% Occupied Bandwidth (MHz)	Verdict	
Wode	Туре	(MHz)	Type	Ant	Result	veruici	
		2402	DH5	1	0.842	Pass	
GFSK	SISO	2441	DH5	1	0.841	Pass	
		2480	DH5	1	0.840	Pass	
	SISO	2402	2DH5	1	1.182	Pass	
Pi/4DQPSK		2441	2DH5	1	1.181	Pass	
		2480	2DH5	1	1.178	Pass	
8DPSK	SISO	2402	3DH5	1	1.169	Pass	
		2441	3DH5	1	1.169	Pass	
		2480	3DH5	1	1.167	Pass	



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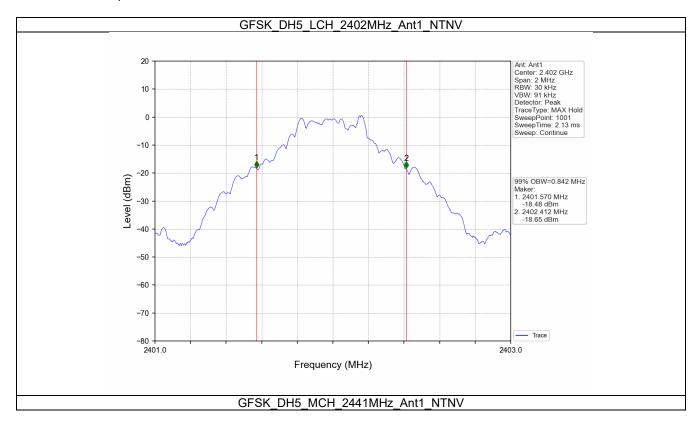
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1.1.2 Test Graph





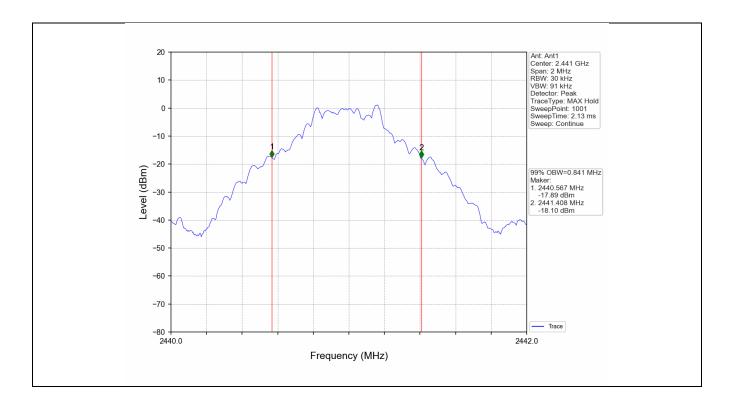
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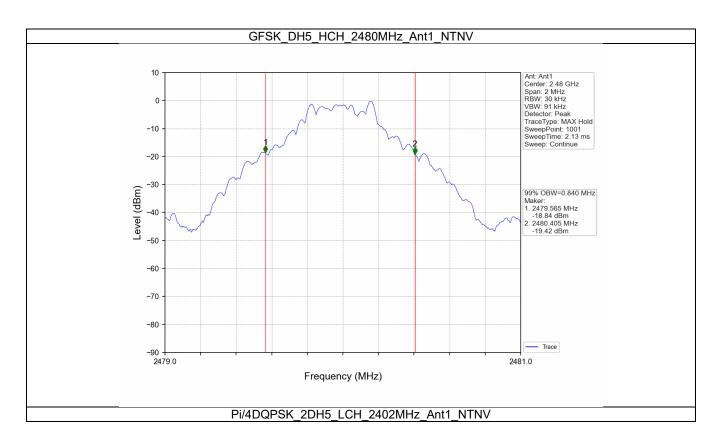
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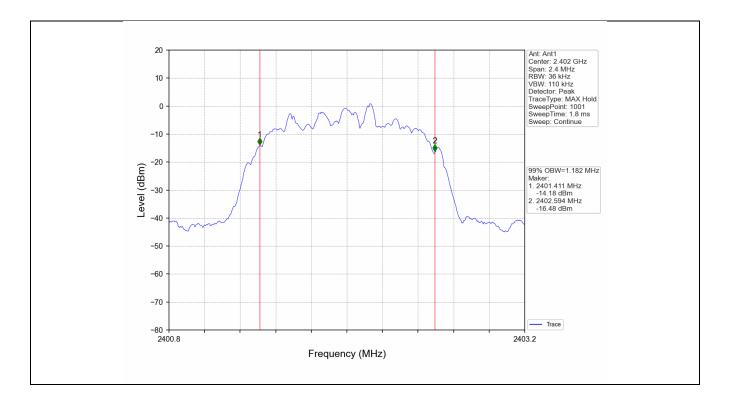
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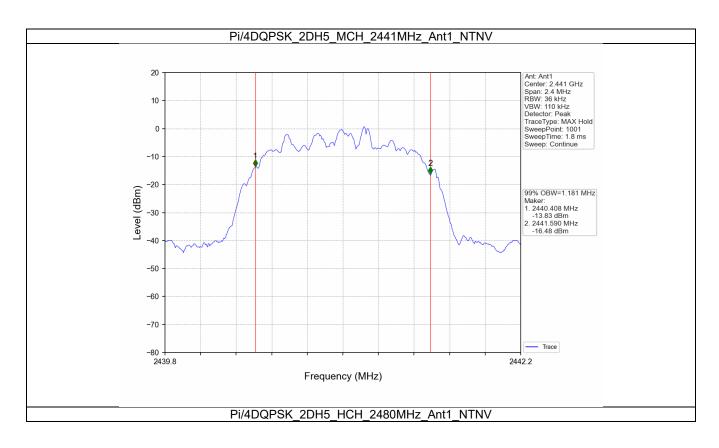
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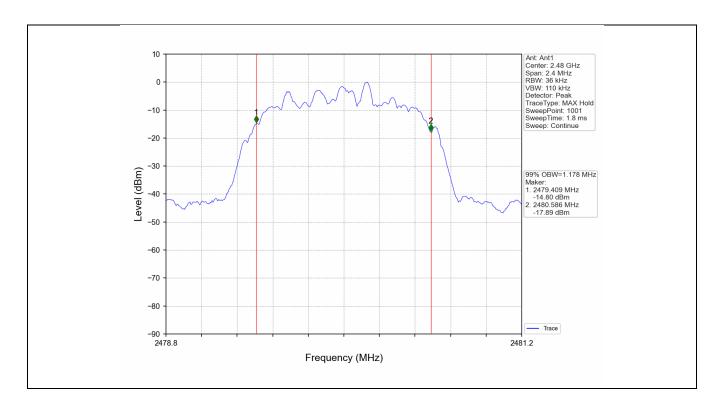
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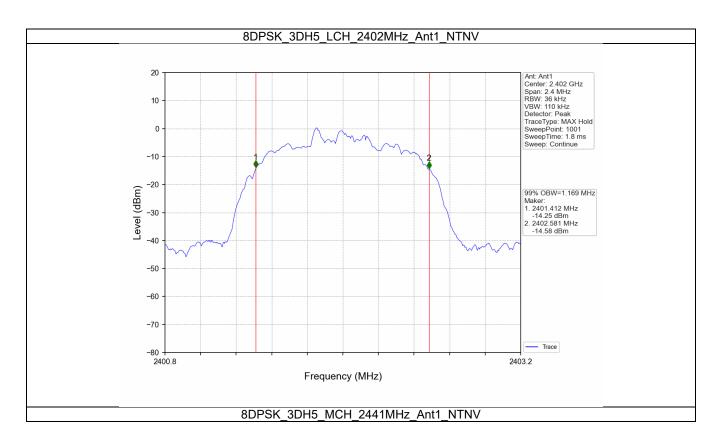
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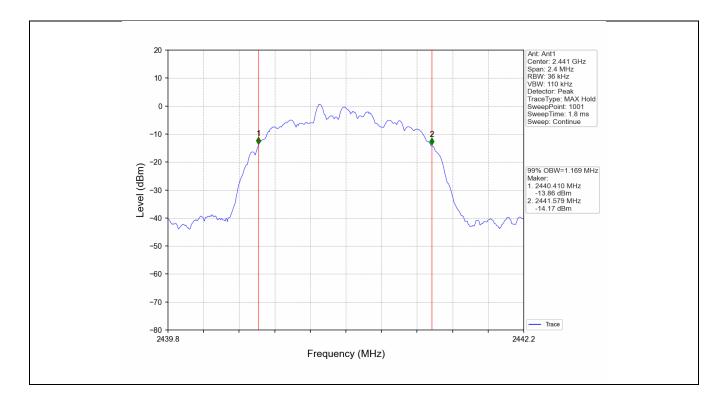
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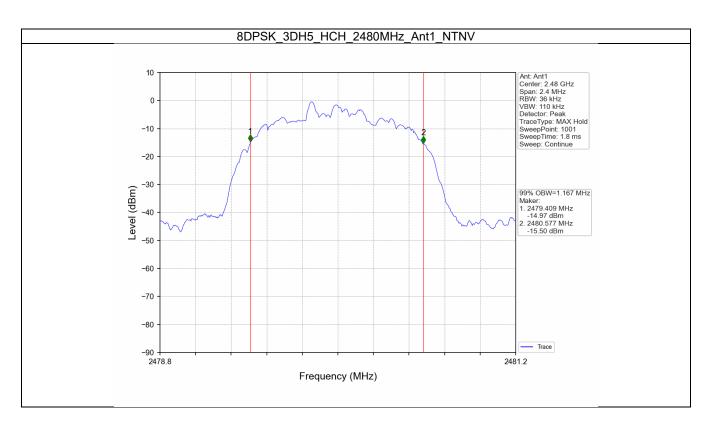
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1.2 20dB BW

1.2.1 Test Result

Mode	TX	Frequency	, I Ani F		20dB Bandwidth (MHz)	Verdict	
	Type	(MHz)	Type	AIIL	Result	verdict	
		2402	DH5	1	0.946	Pass	
GFSK	SISO	2441	DH5	1	0.946	Pass	
		2480	DH5	1	0.947	Pass	
	SISO	2402	2DH5	1	1.286	Pass	
Pi/4DQPSK		2441	2DH5	1	1.288	Pass	
		2480	2DH5	1	1.288	Pass	
8DPSK	SISO	2402	3DH5	1	1.305	Pass	
		2441	3DH5	1	1.305	Pass	
		2480	3DH5	1	1.303	Pass	



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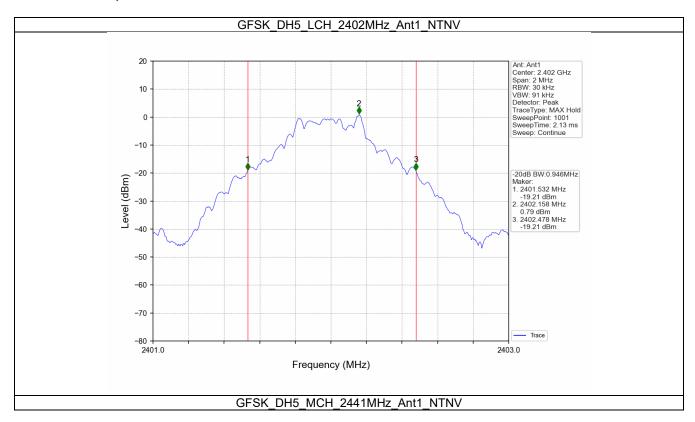
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1.2.2 Test Graph





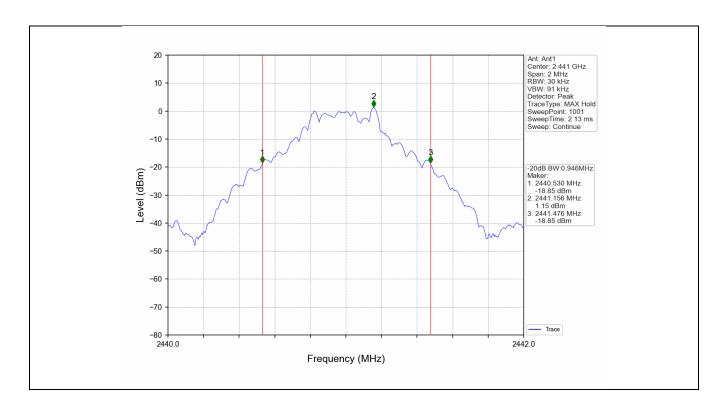
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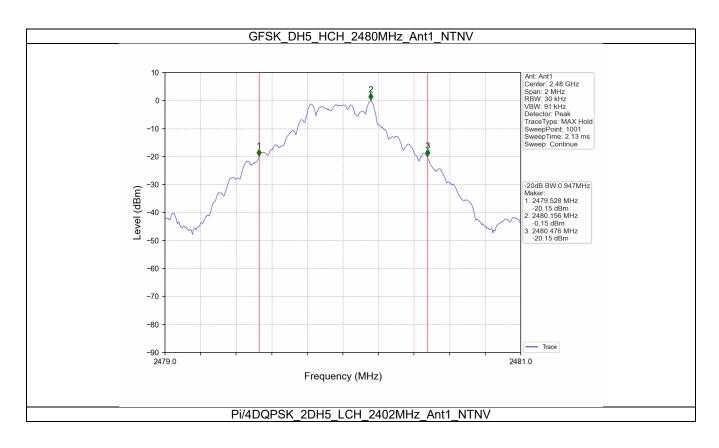
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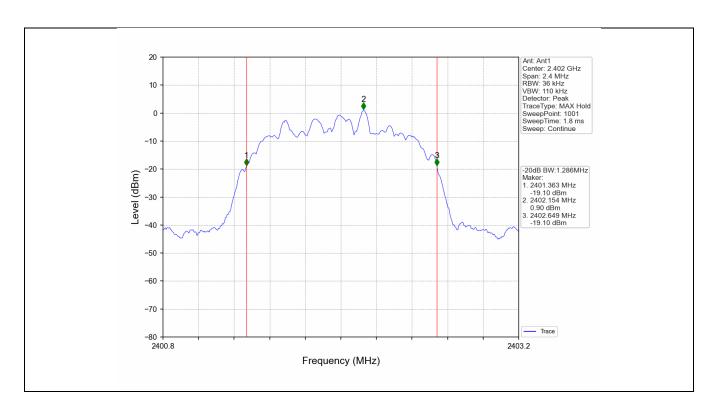
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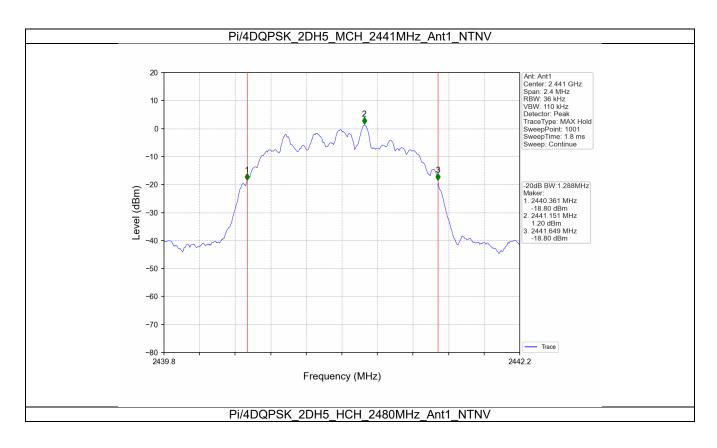
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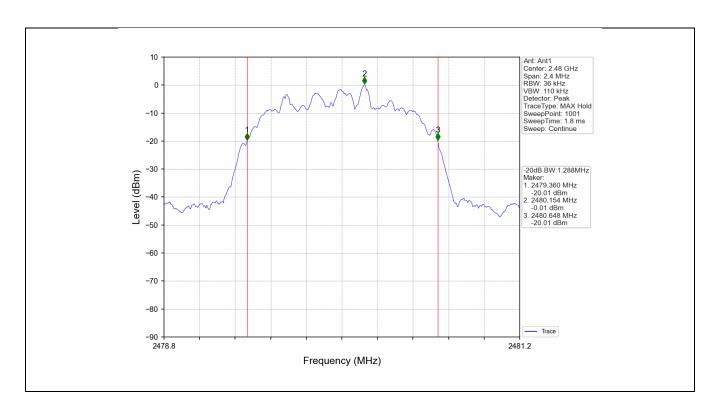
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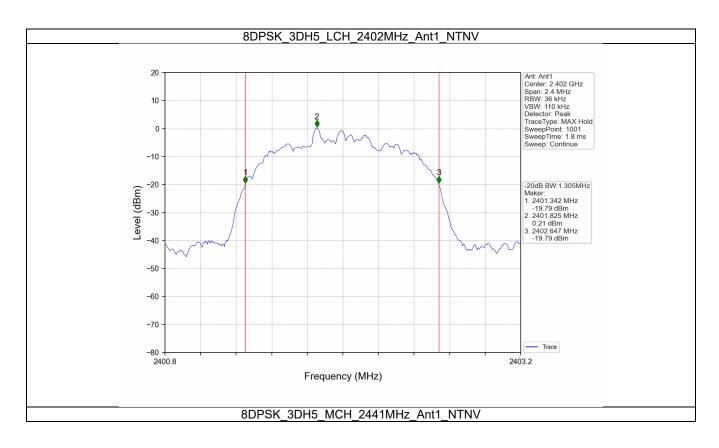
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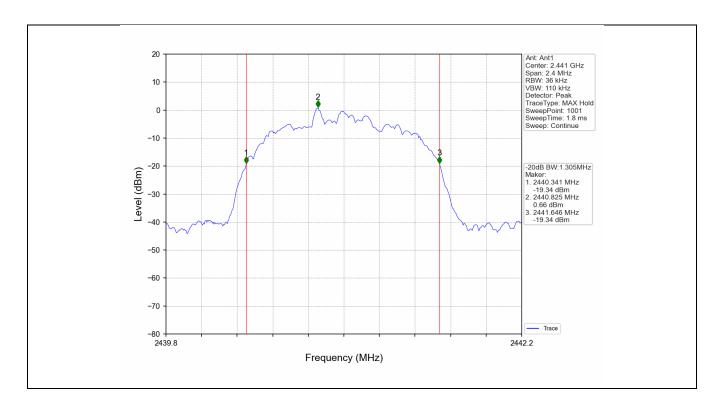
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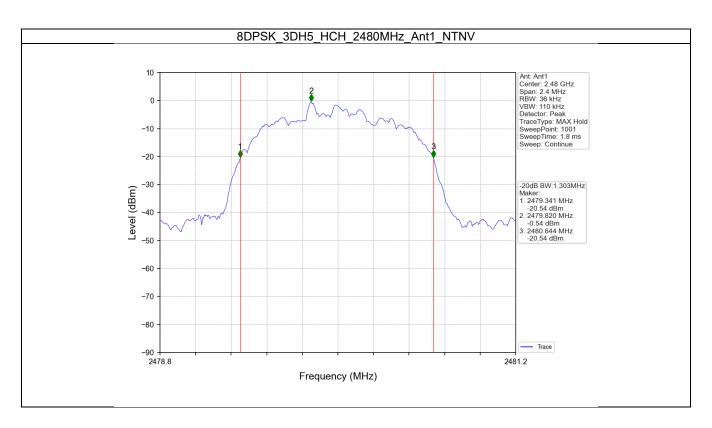
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

TX	Frequency	Packet	Maximum Peak Condu	Verdict	
Type	(MHz)	Type	Ant1	Limit	verdict
	2402	DH5	2.06	<=30	Pass
SISO	2441	DH5	2.42	<=30	Pass
	2480	DH5	1.18	<=30	Pass
SISO	2402	2DH5	3.30	<=20.97	Pass
	2441	2DH5	3.65	<=20.97	Pass
	2480	2DH5	2.46	<=20.97	Pass
SISO	2402	3DH5	3.77	<=20.97	Pass
	2441	3DH5	4.12	<=20.97	Pass
	2480	3DH5	2.93	<=20.97	Pass
	Type SISO SISO	Type (MHz) 2402 SISO 2441 2480 2402 SISO 2441 2480 2402 SISO 2441 2480 2402 SISO 2441	Type (MHz) Type 2402 DH5 SISO 2441 DH5 2480 DH5 2402 2DH5 SISO 2441 2DH5 2480 2DH5 2402 3DH5 SISO 2441 3DH5	Type (MHz) Type Ant1 2402 DH5 2.06 SISO 2441 DH5 2.42 2480 DH5 1.18 2402 2DH5 3.30 SISO 2441 2DH5 3.65 2480 2DH5 2.46 2402 3DH5 3.77 SISO 2441 3DH5 4.12	Type (MHz) Type Ant1 Limit SISO 2402 DH5 2.06 <=30



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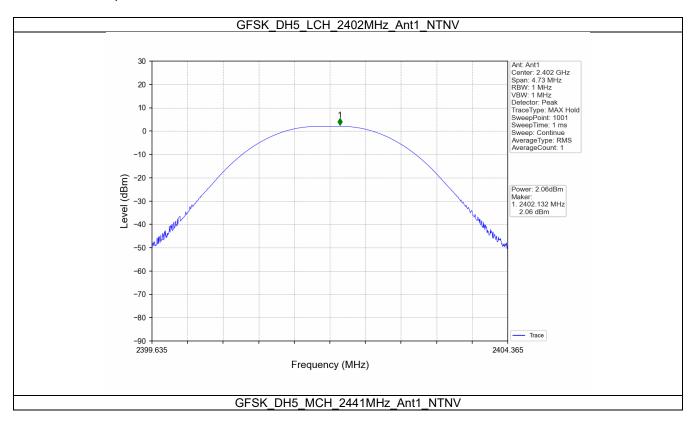
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2.1.2 Test Graph





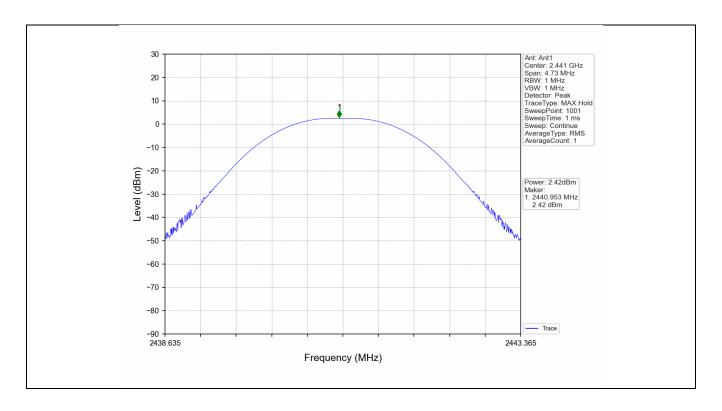
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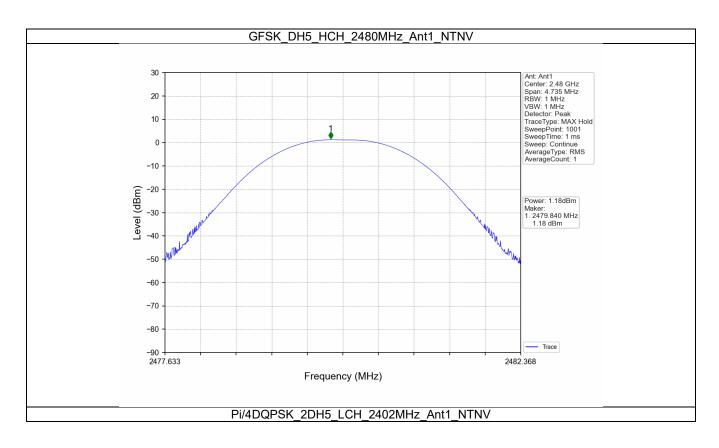
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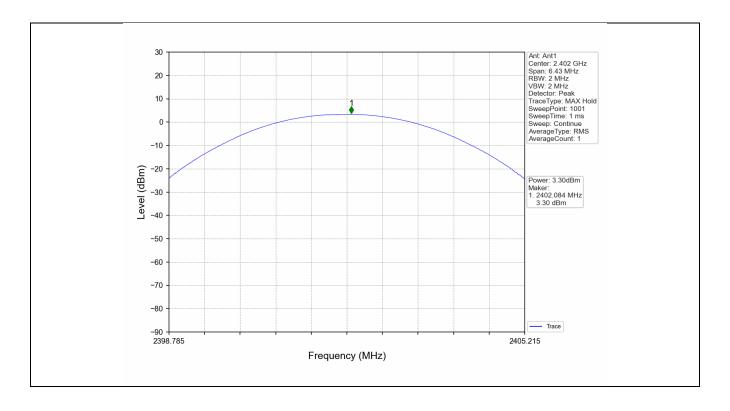
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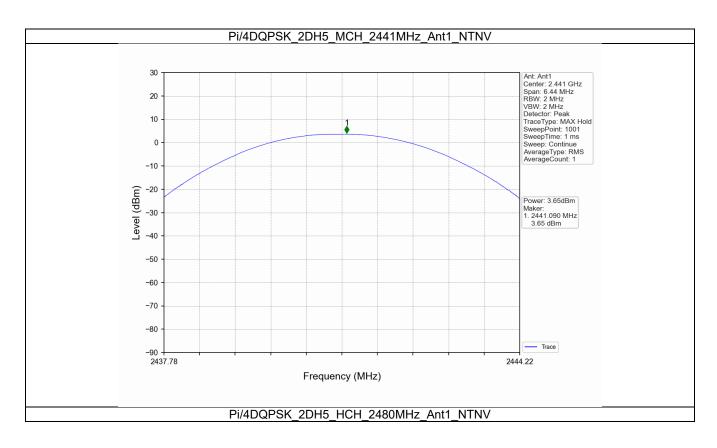
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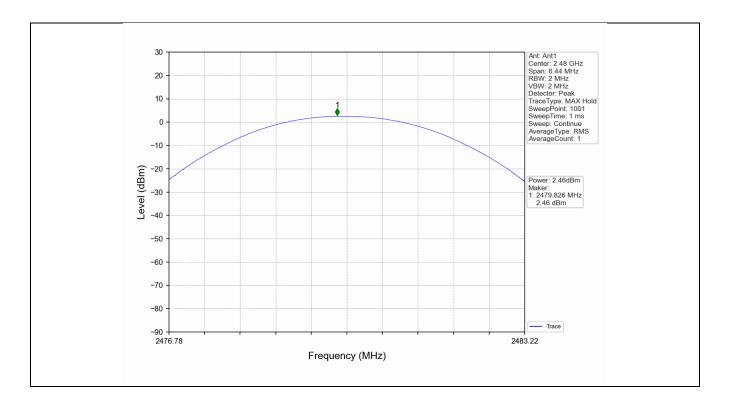
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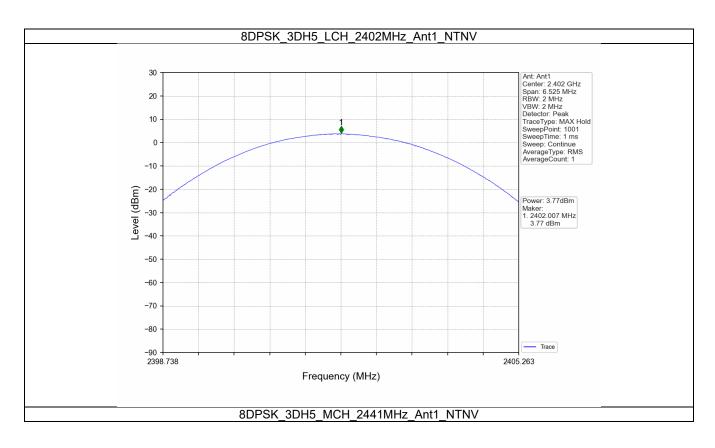
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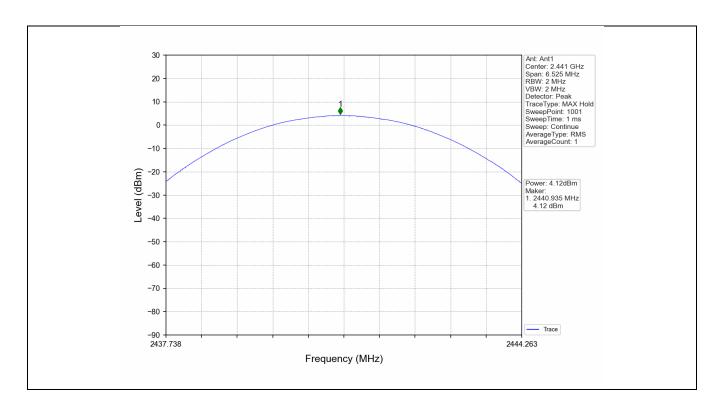
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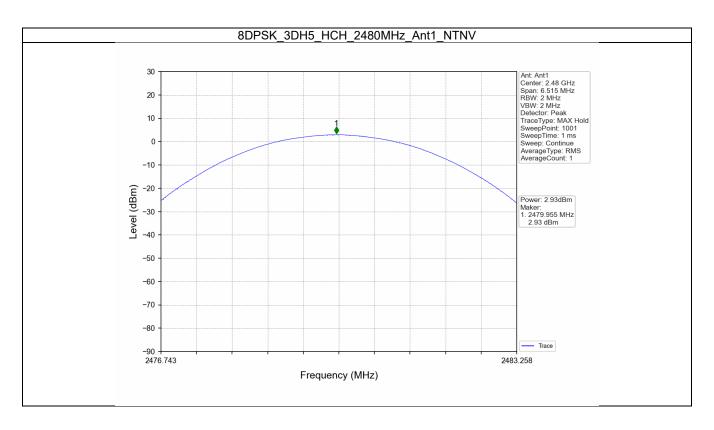
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3. Carrier Frequency Separation

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	0.947	>=0.947	Pass			
Pi/4DQPSK	SISO	HOPP	2DH5	1.000	1.288	>=0.859	Pass			
8DPSK	SISO	HOPP	3DH5	1.000	1.305	>=0.87	Pass			



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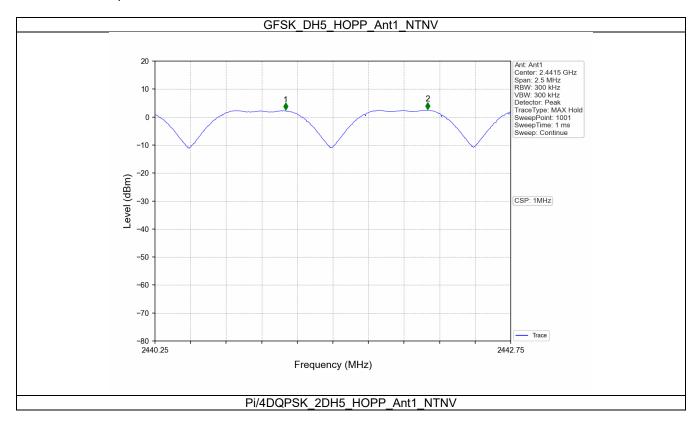
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3.1.2 Test Graph





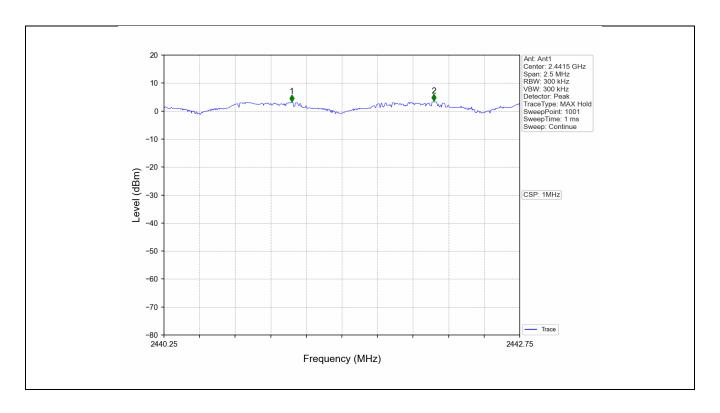
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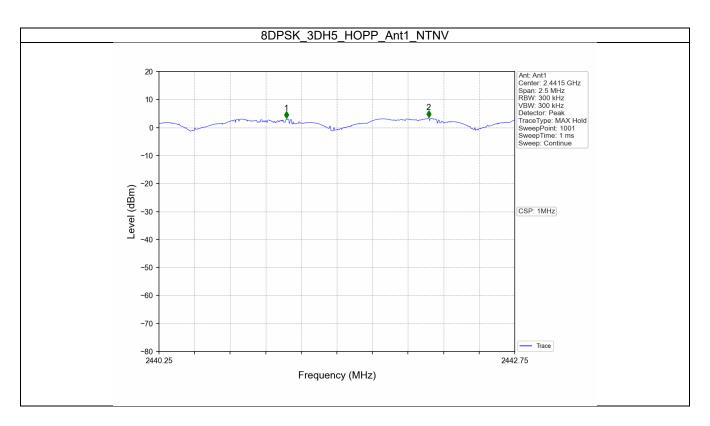
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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode	TX	TX Frequency		Num of Hoppir	Verdict		
iviode	Type	(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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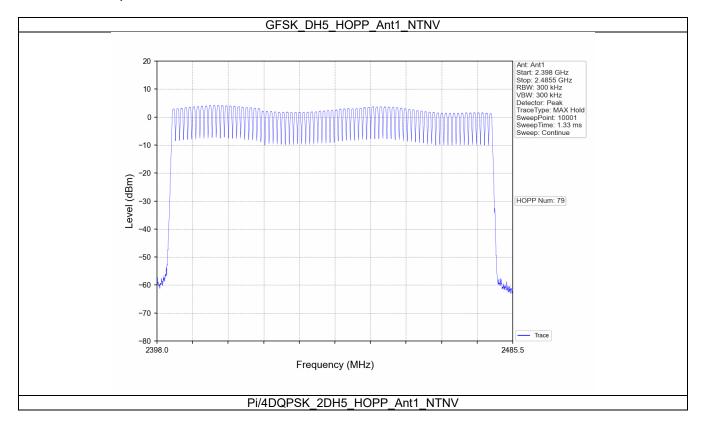
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4.1.2 Test Graph





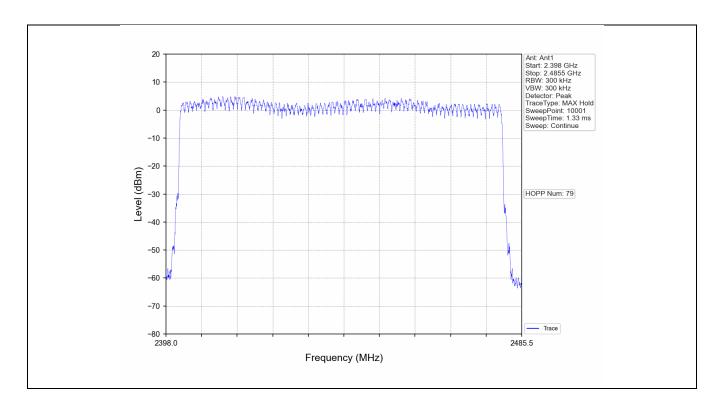
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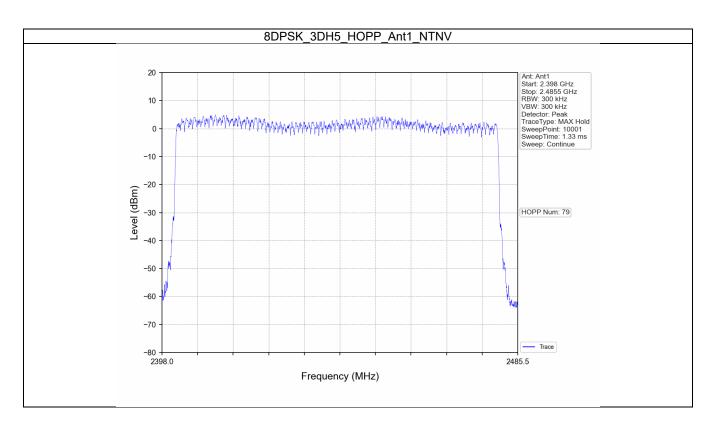
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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

					Ant1				
Mode	Made TX Fre	Frequency	Packet	Duration of	Observation	Num of Pulse in	Dwell	Limit	Verdict
Typ	Type	(MHz)	Type	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	veruici
			DH1	0.384	31.600	320	122.880	<=400	Pass
GFSK	SISO	SO HOPP	DH3	1.640	31.600	165	270.600	<=400	Pass
			DH5	2.888	31.600	110	317.680	<=400	Pass
		SISO HOPP	2DH1	0.394	31.600	320	126.080	<=400	Pass
Pi/4DQPSK	SISO		2DH3	1.646	31.600	159	261.714	<=400	Pass
			2DH5	2.894	31.600	105	303.870	<=400	Pass
		ISO HOPP	3DH1	0.394	31.600	320	126.080	<=400	Pass
8DPSK	SISO		3DH3	1.644	31.600	158	259.752	<=400	Pass
			3DH5	2.894	31.600	96	277.824	<=400	Pass



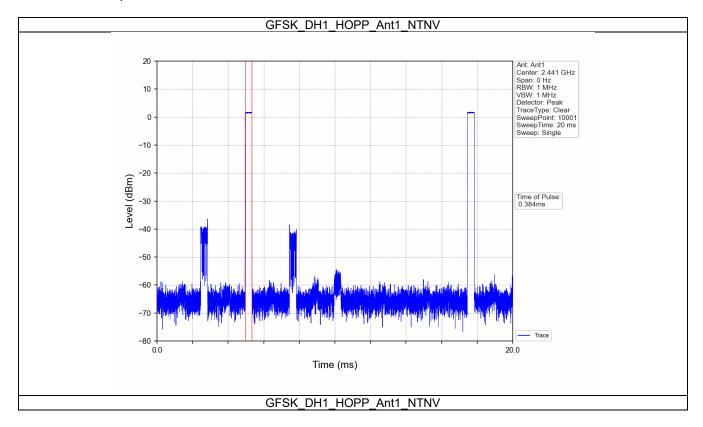
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5.1.2 Test Graph





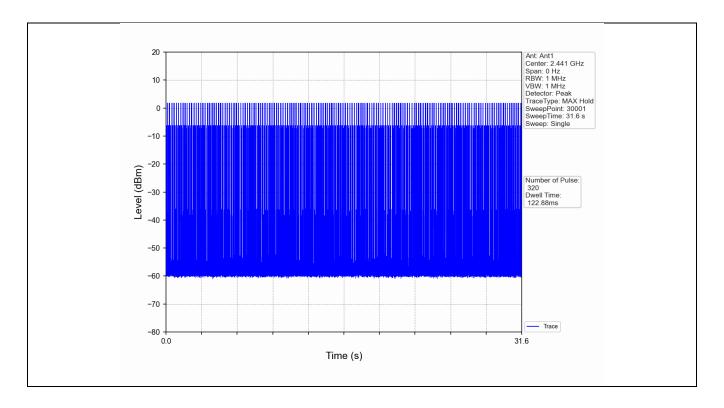
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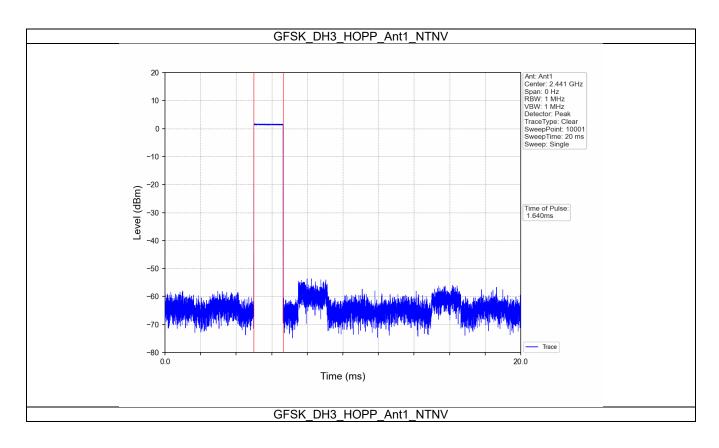
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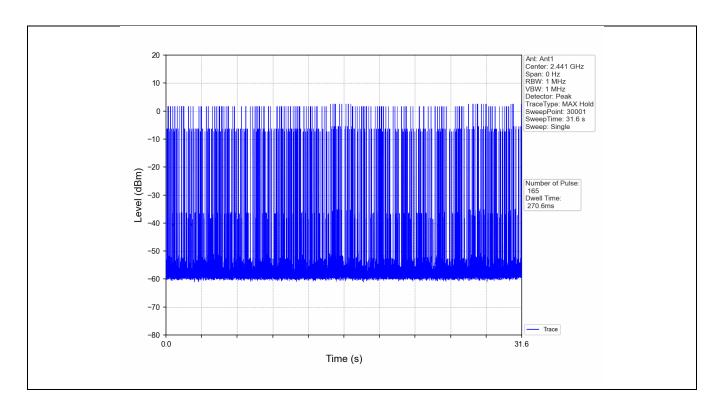
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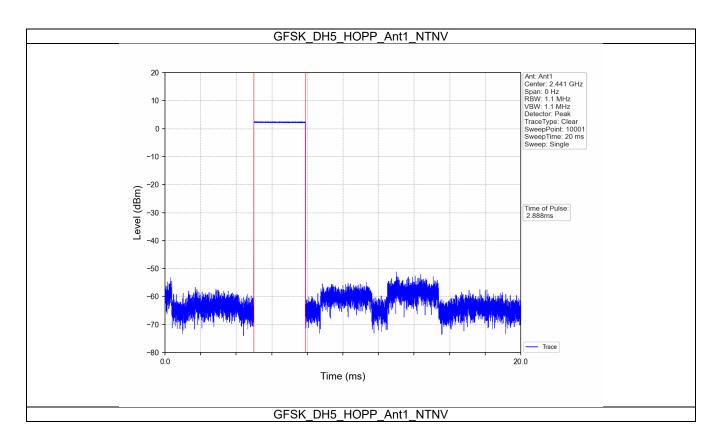
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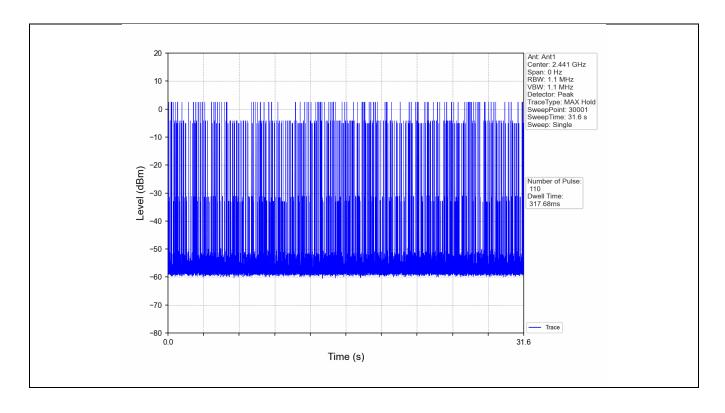
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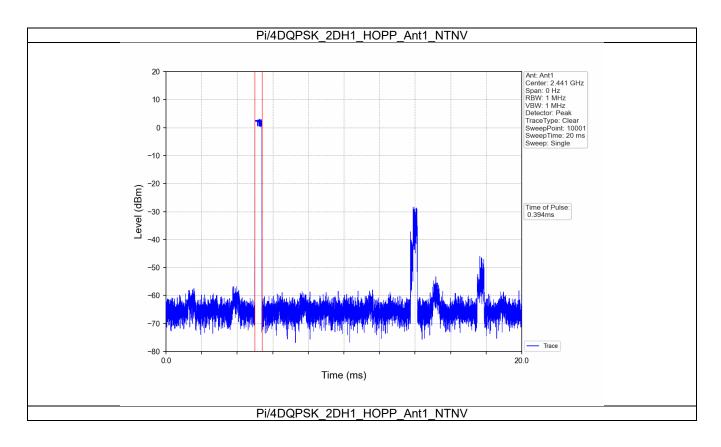
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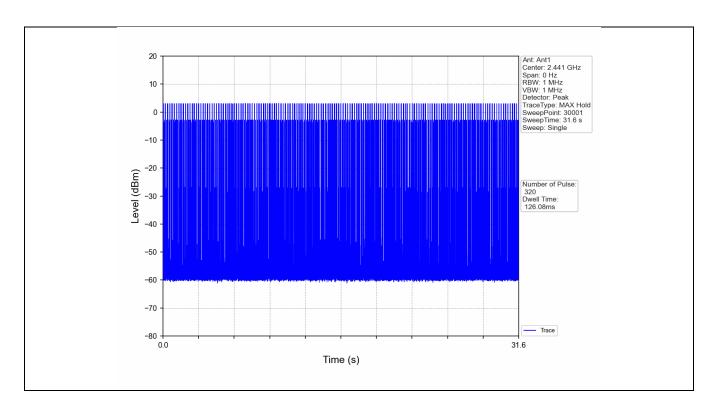
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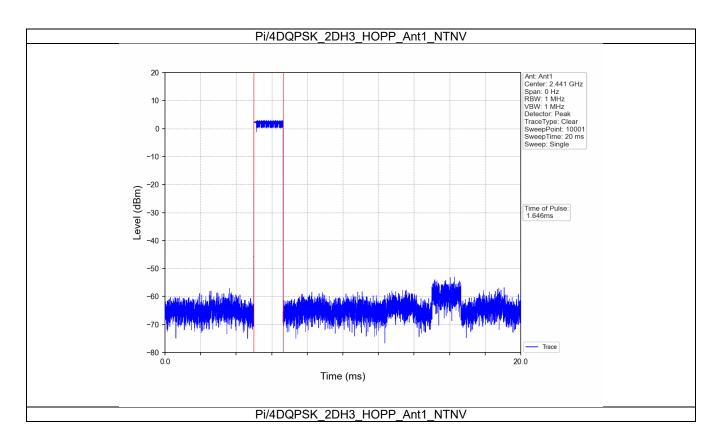
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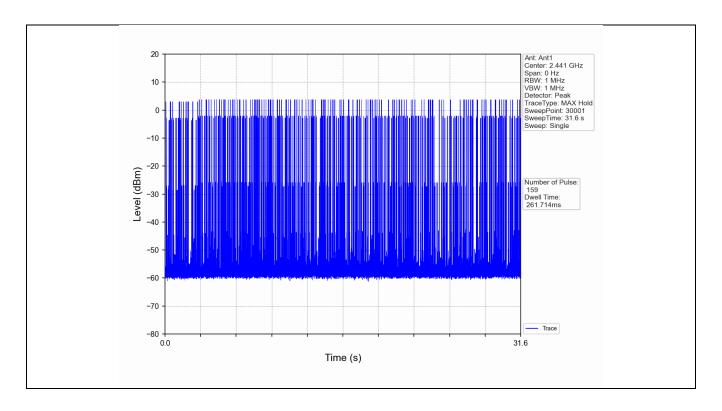
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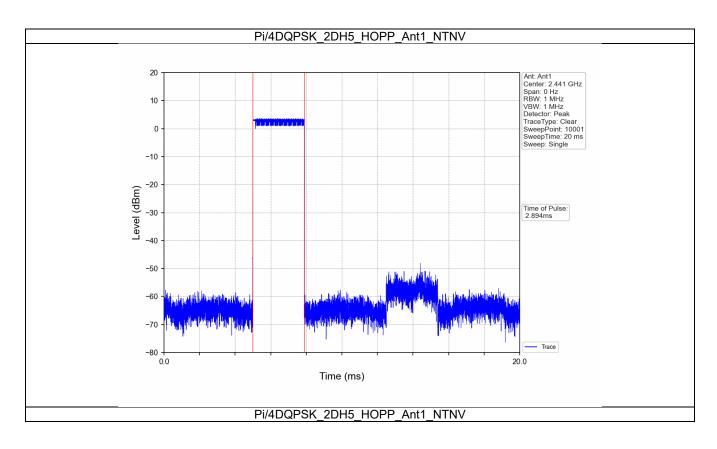
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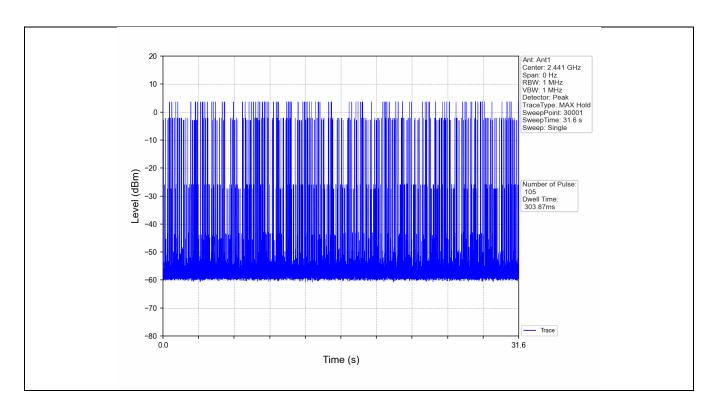
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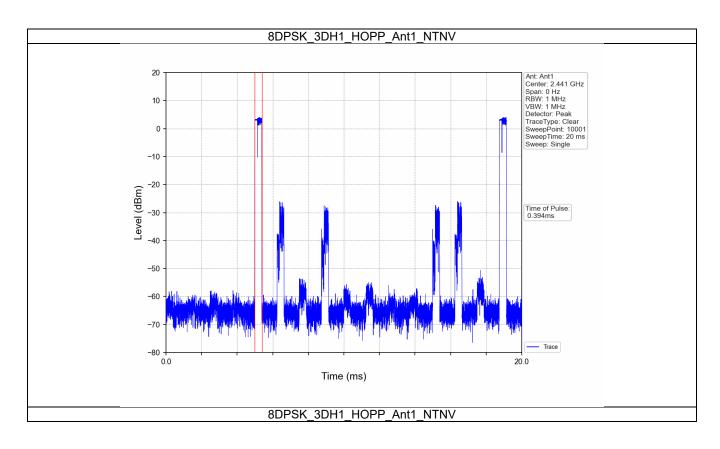
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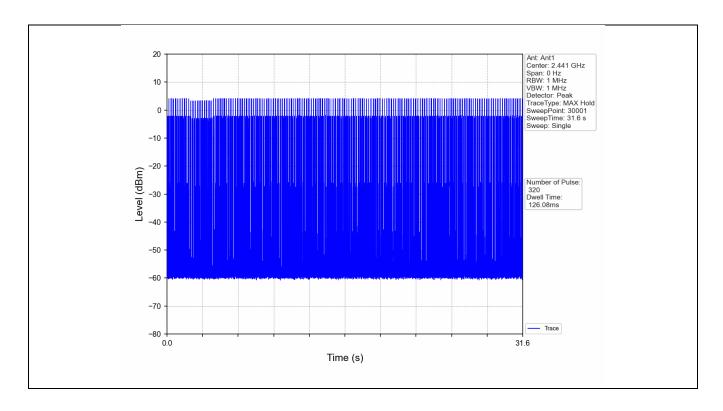
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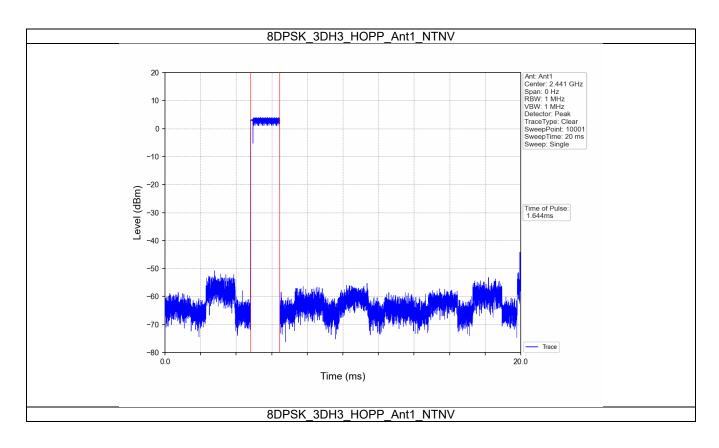
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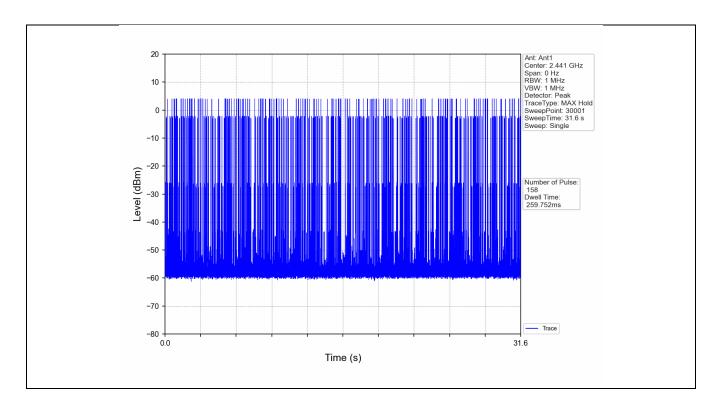
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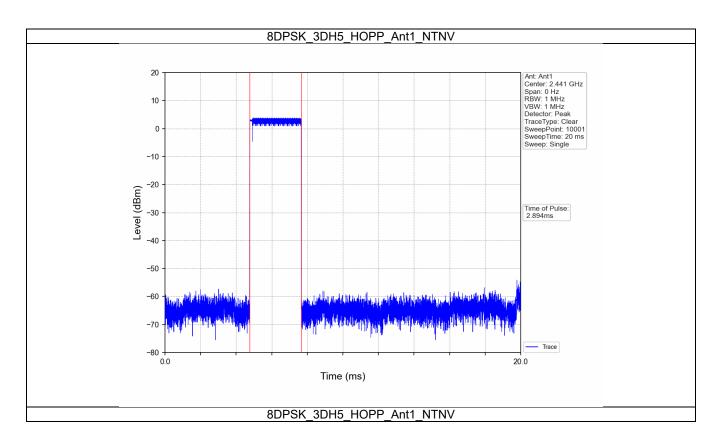
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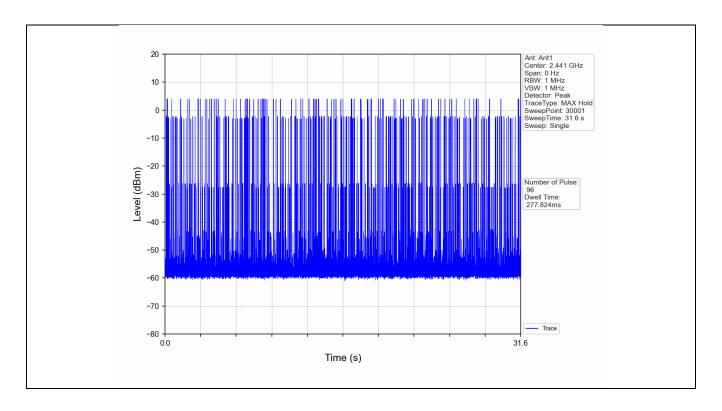
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6. Unwanted Emissions In Non-restricted Frequency Bands

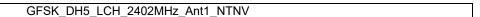
6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.69
		2441	2441 DH5 1		2.32
		2480	DH5	1	1.07
Pi/4DQPSK	SISO	2402	2DH5	1	2.02
		2441	2DH5	1	2.35
		2480	2DH5	1	1.07
8DPSK	SISO	2402	3DH5	1	2.71
		2441	3DH5	1	2.29
		2480	3DH5	1	1.18

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.

6.1.2 Test Graph





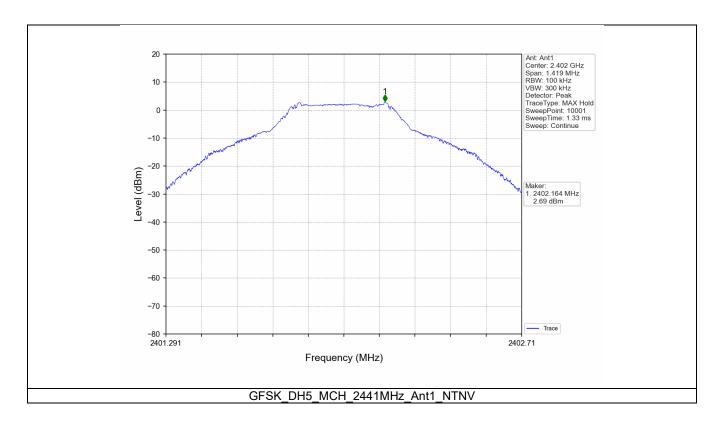
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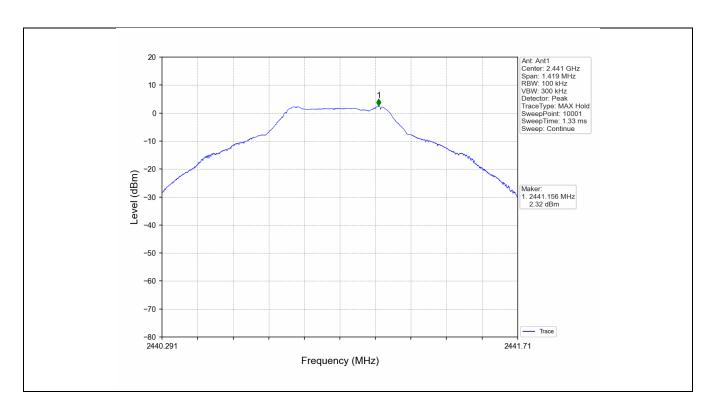
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GFSK DH5 HCH 2480MHz Ant1 NTNV



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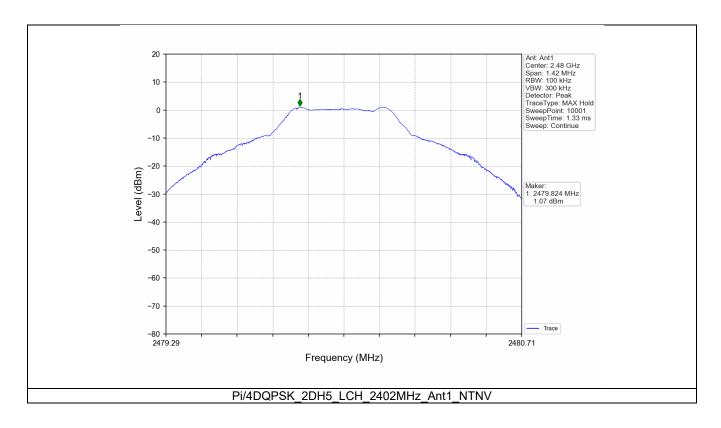
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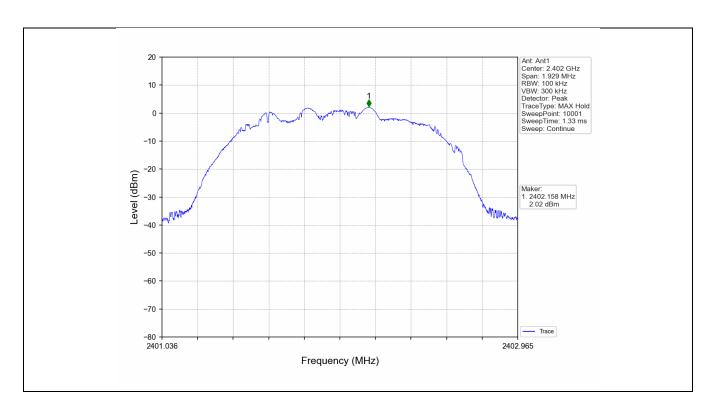
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Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



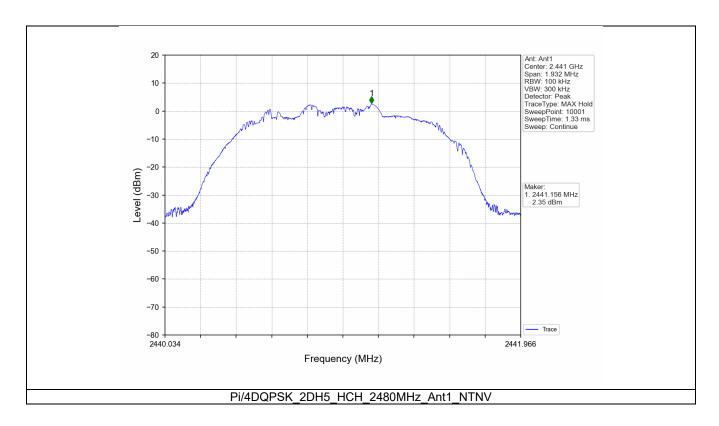
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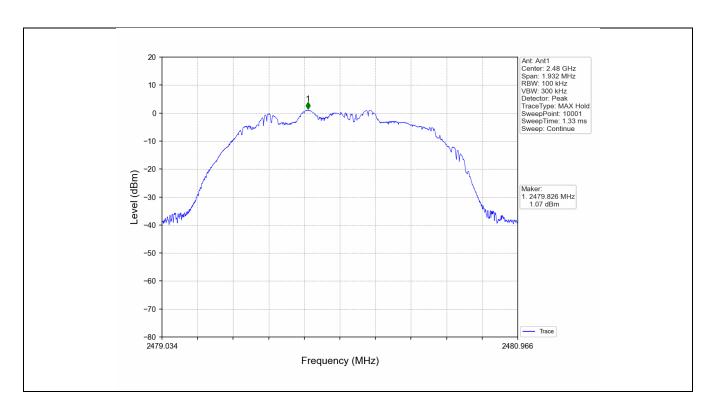
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8DPSK 3DH5 LCH 2402MHz Ant1 NTNV



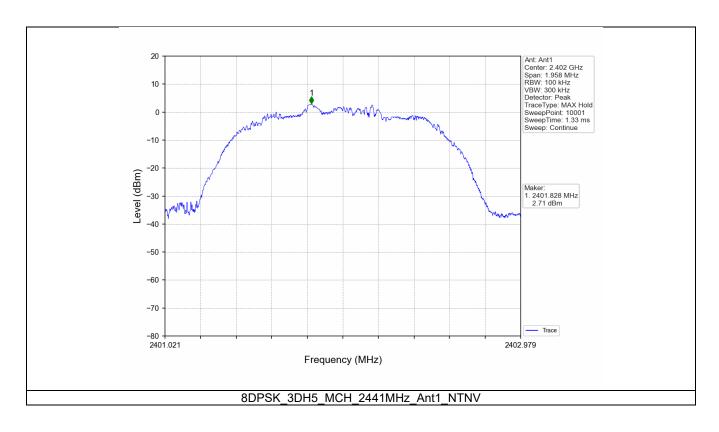
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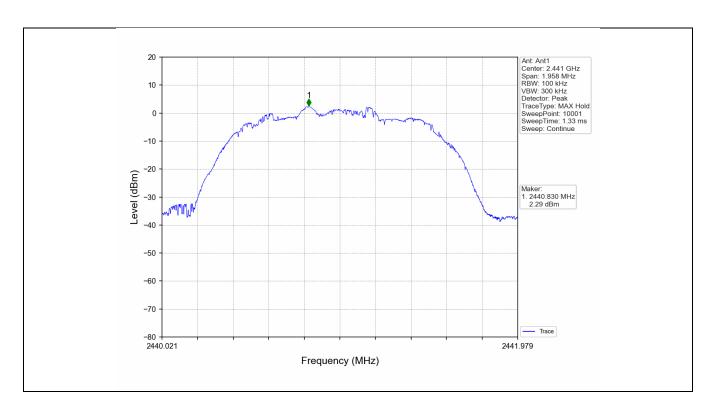
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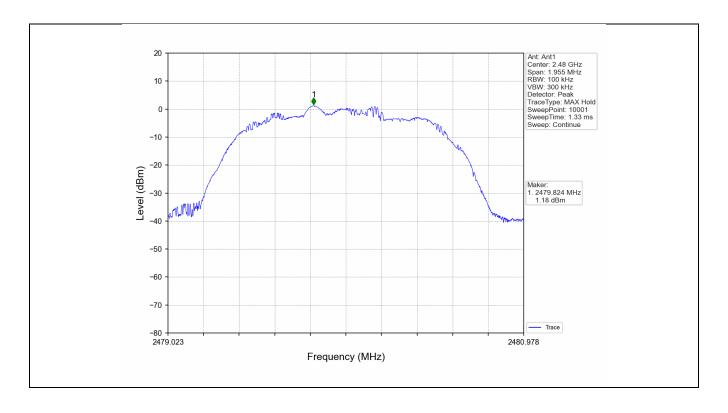
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6.2 CSE

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	2.69	-17.31	Pass
		2441	DH5	1	2.69	-17.31	Pass
		2480	DH5	1	2.69	-17.31	Pass
		HOPP	DH5	1	2.69	-17.31	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.35	-17.65	Pass
		2441	2DH5	1	2.35	-17.65	Pass
		2480	2DH5	1	2.35	-17.65	Pass
		HOPP	2DH5	1	2.35	-17.65	Pass
8DPSK	SISO	2402	3DH5	1	2.71	-17.29	Pass
		2441	3DH5	1	2.71	-17.29	Pass
		2480	3DH5	1	2.71	-17.29	Pass
		HOPP	3DH5	1	2.71	-17.29	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.

6.2.2 Test Graph

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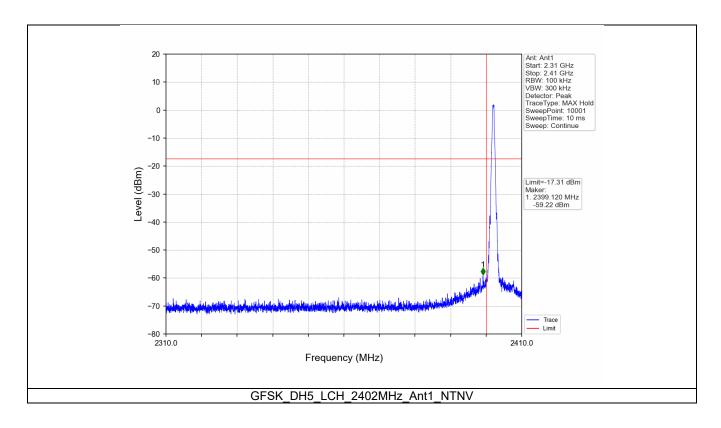
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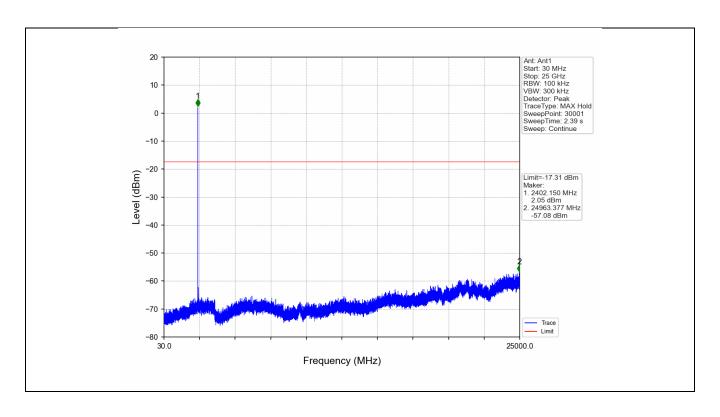
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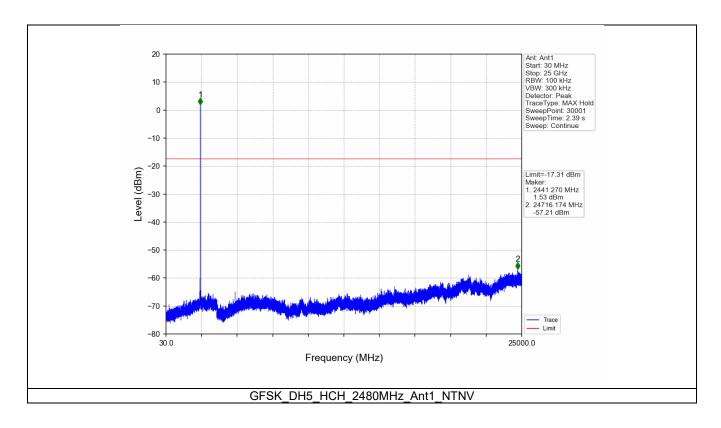
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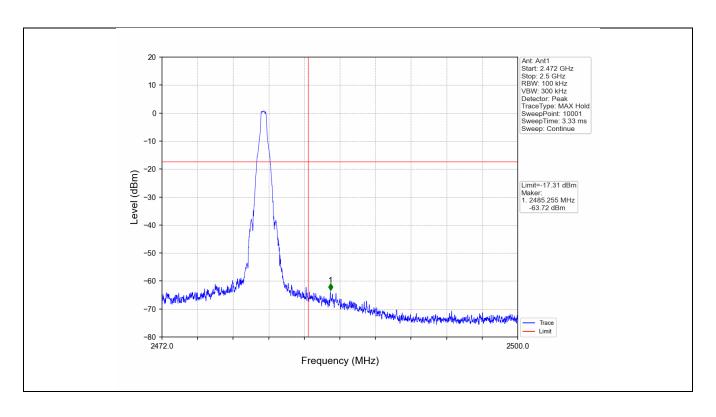
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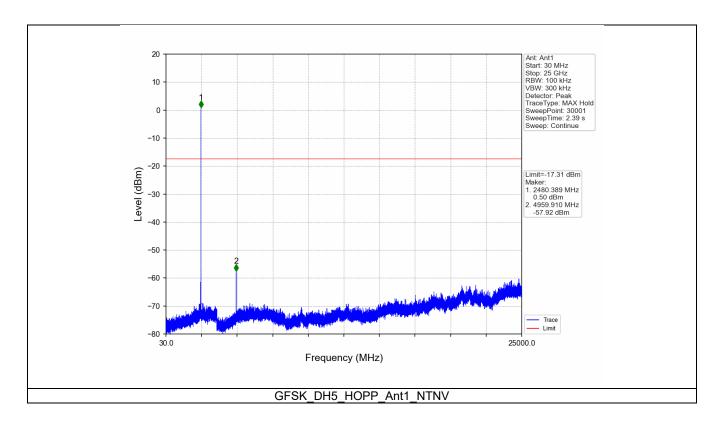
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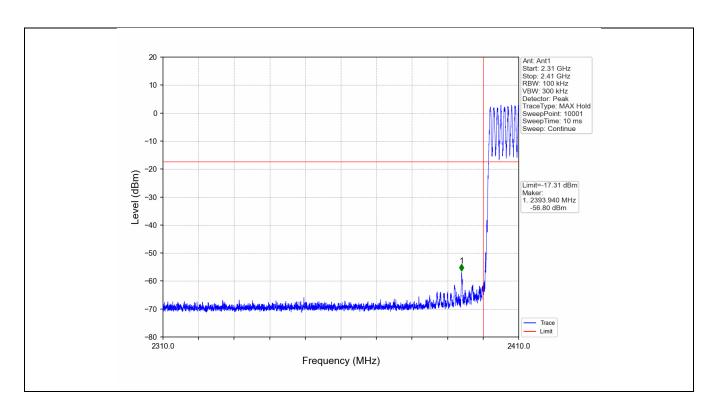
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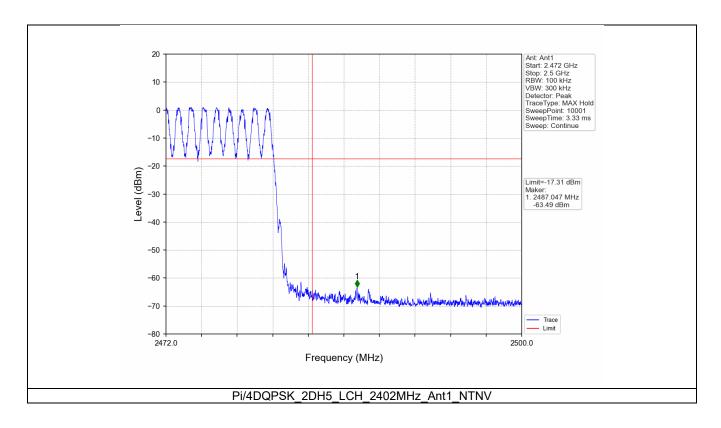
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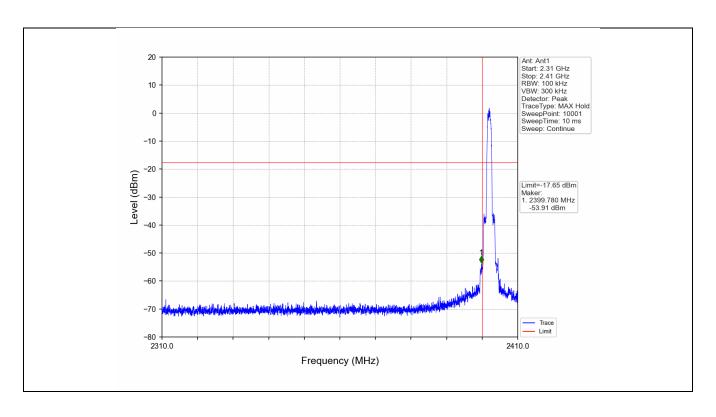
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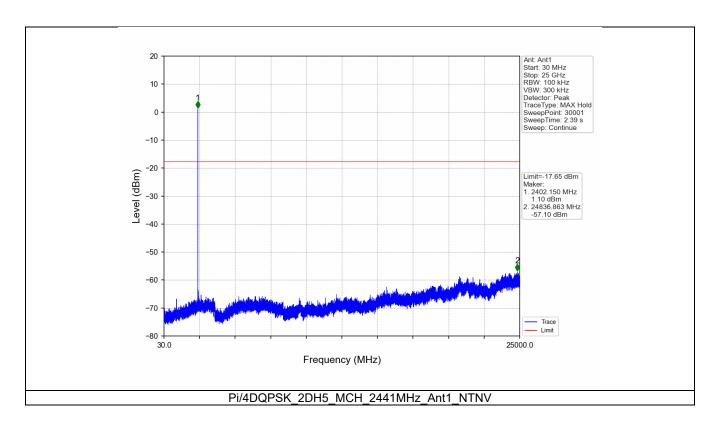
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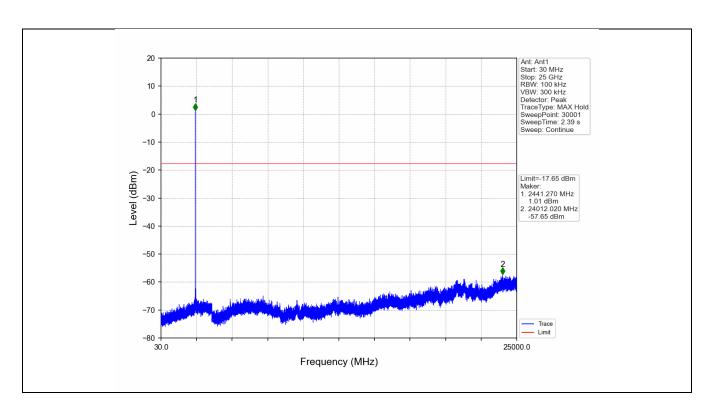
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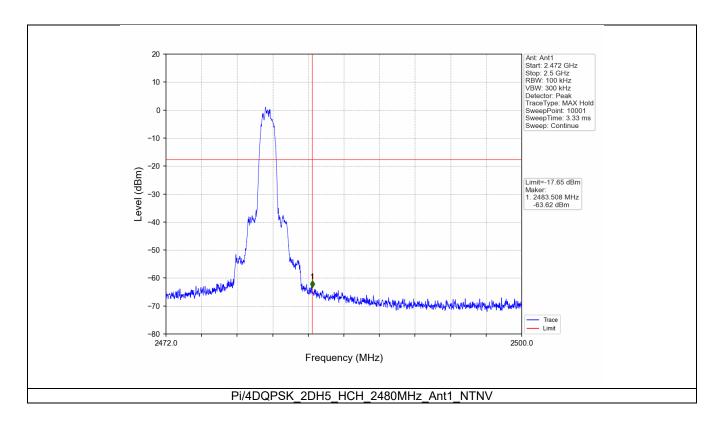
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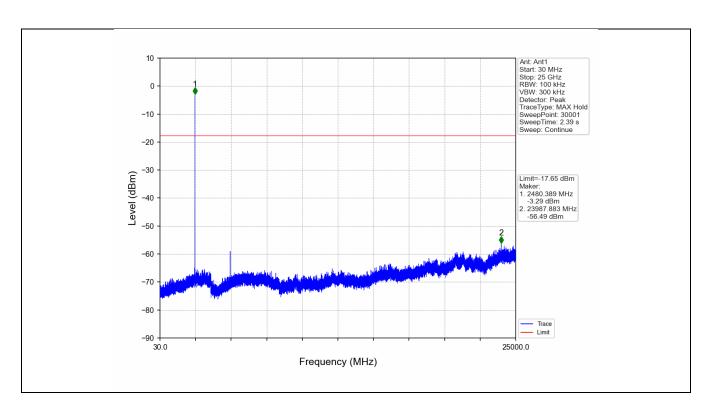
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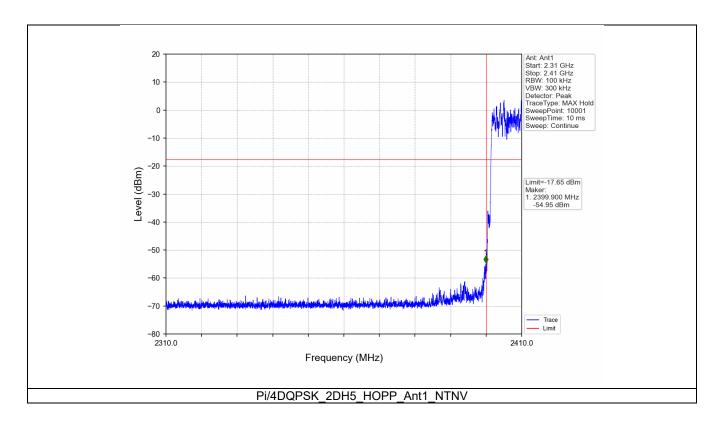
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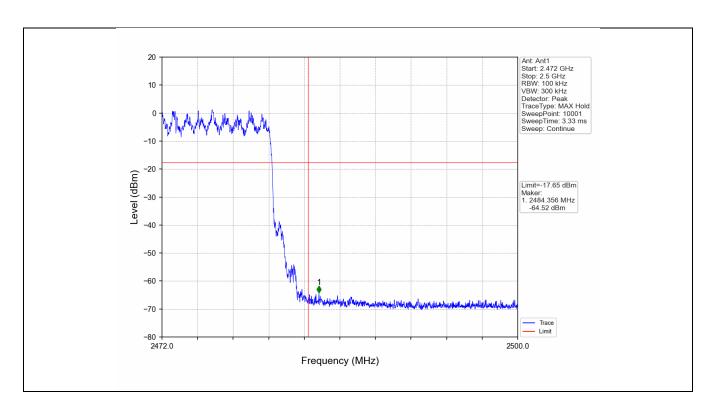
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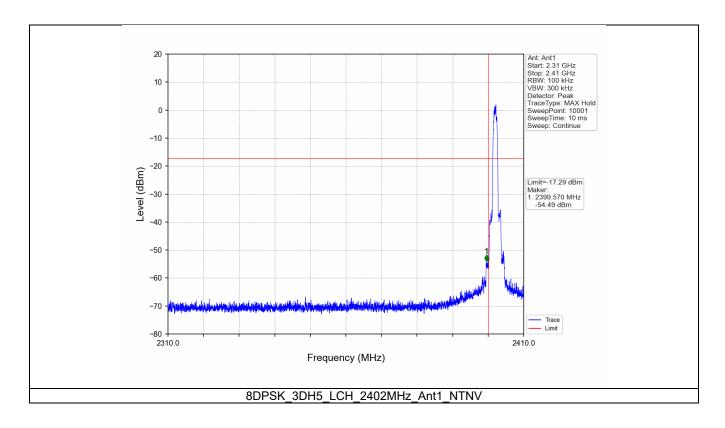
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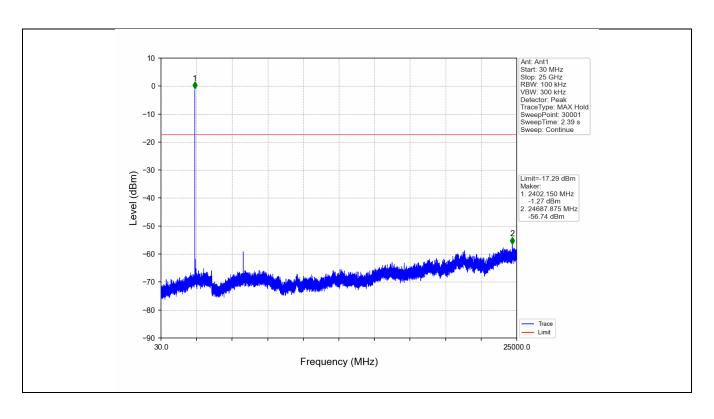
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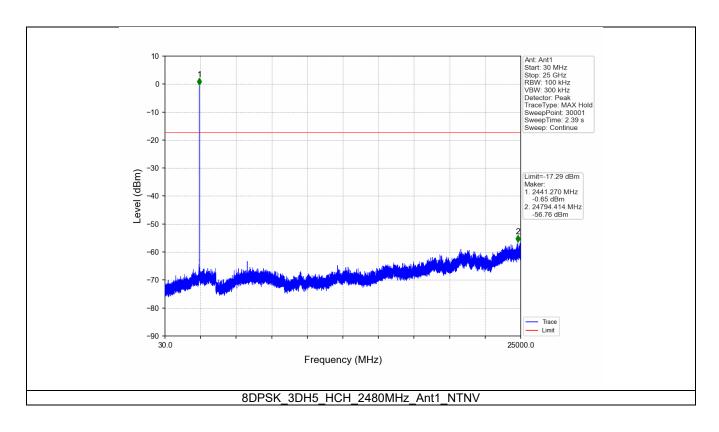
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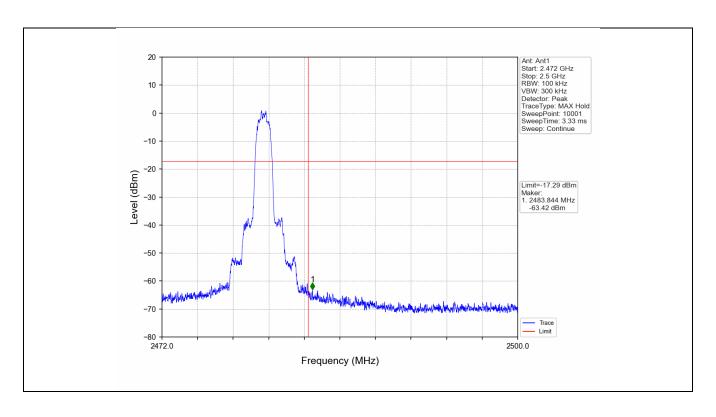
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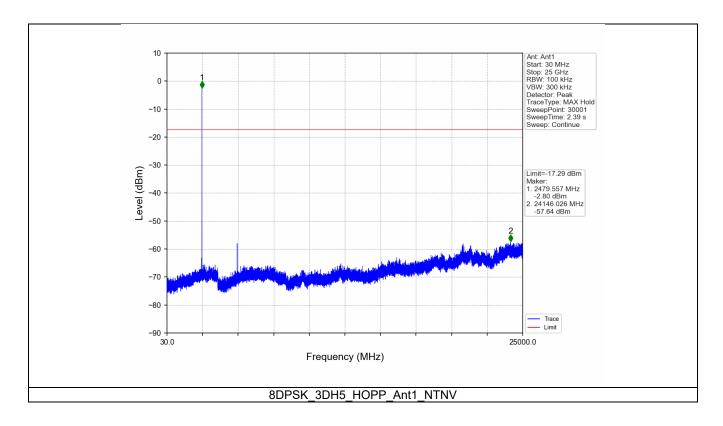
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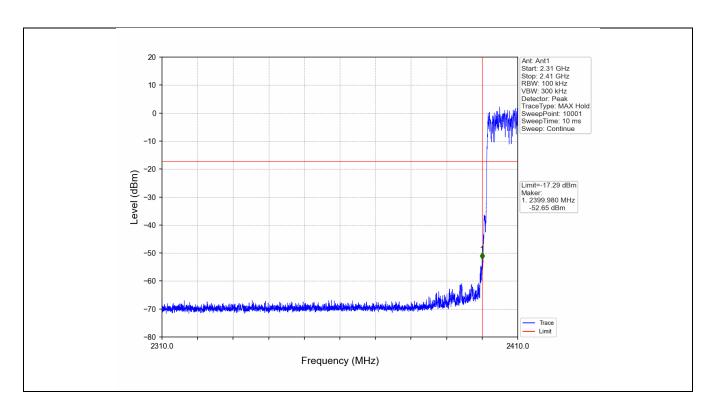
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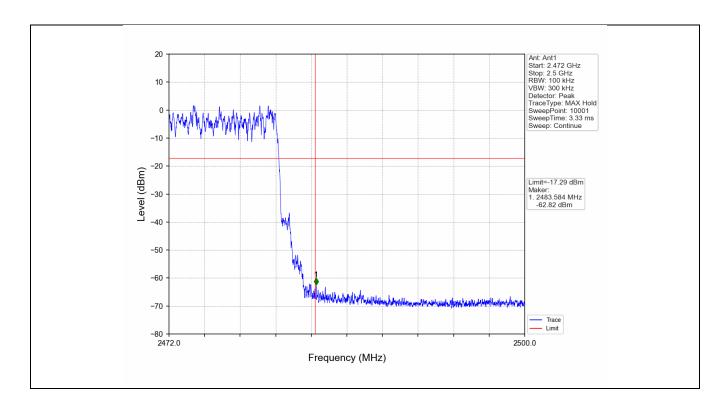
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