

Appendix A for KSCR220100003501-BT-MT7668

1. Bandwidth

1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.875	Pass
		2441	DH5	1	0.880	Pass
		2480	DH5	1	0.874	Pass
PI/4DQPSK	SISO	2402	2DH5	1	1.168	Pass
		2441	2DH5	1	1.171	Pass
		2480	2DH5	1	1.170	Pass
8DPSK	SISO	2402	3DH5	1	2.104	Pass
		2441	3DH5	1	1.173	Pass
		2480	3DH5	1	1.174	Pass

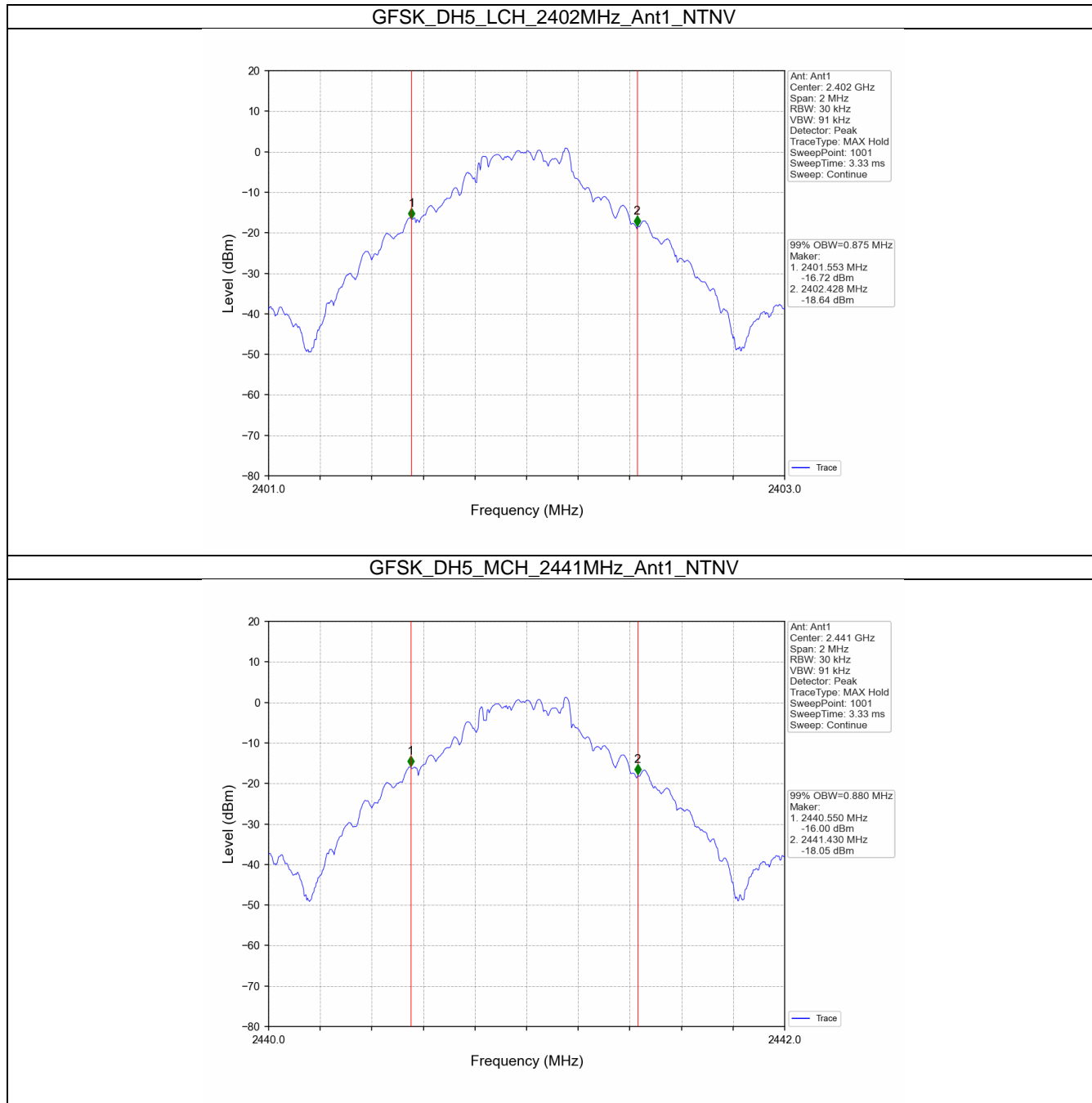


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1.1.2 Test Graph

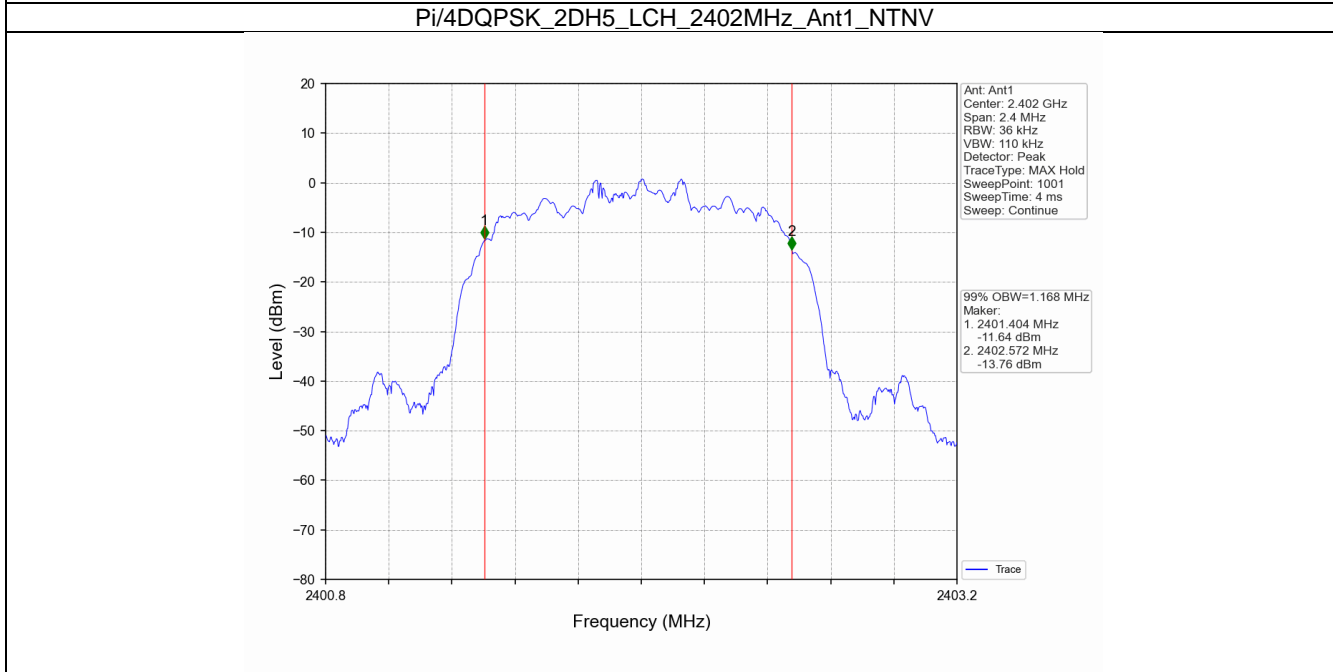
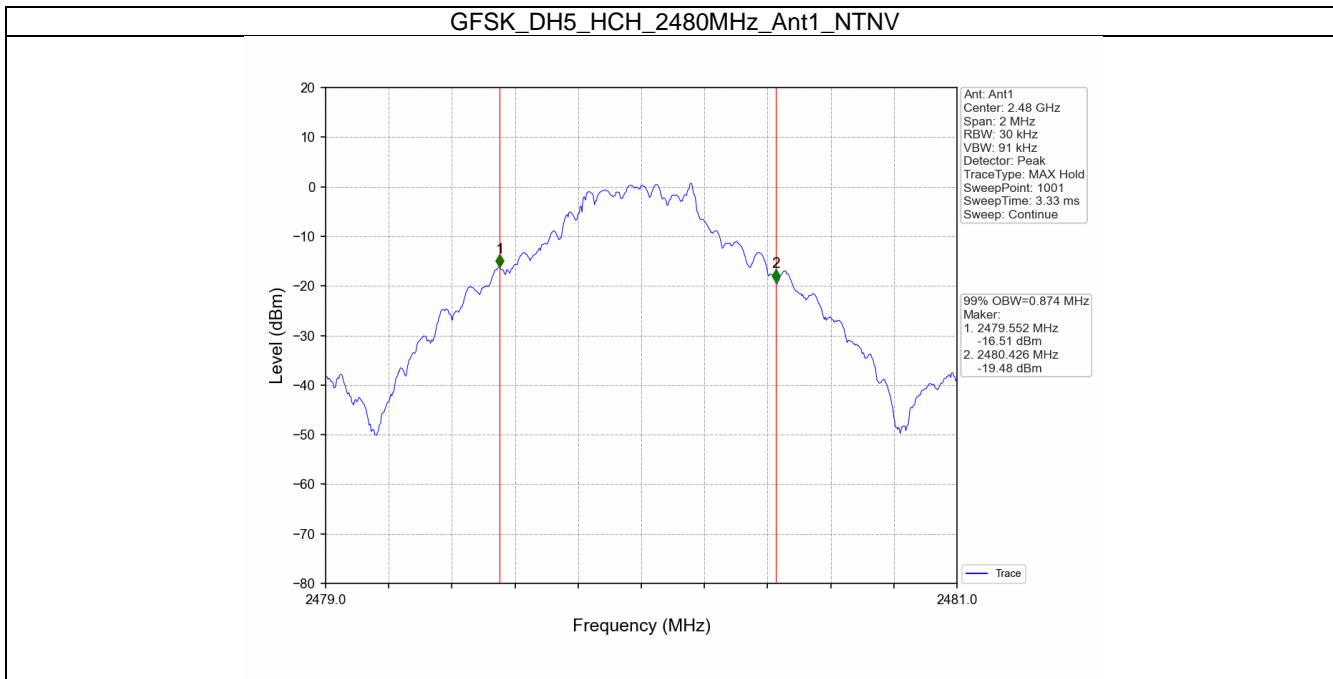


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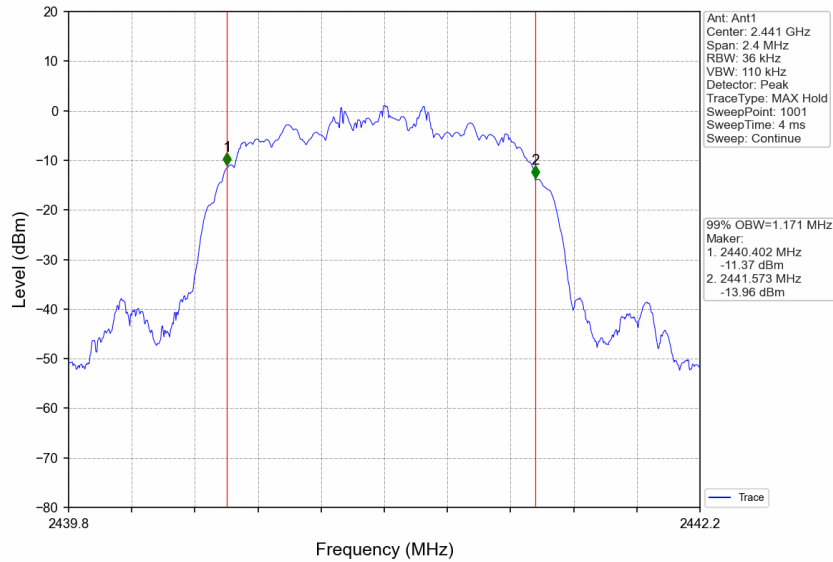
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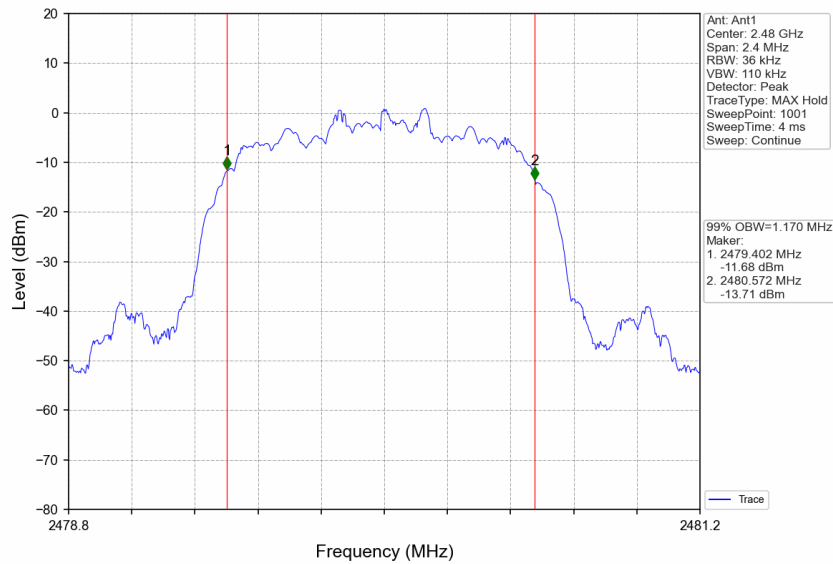
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

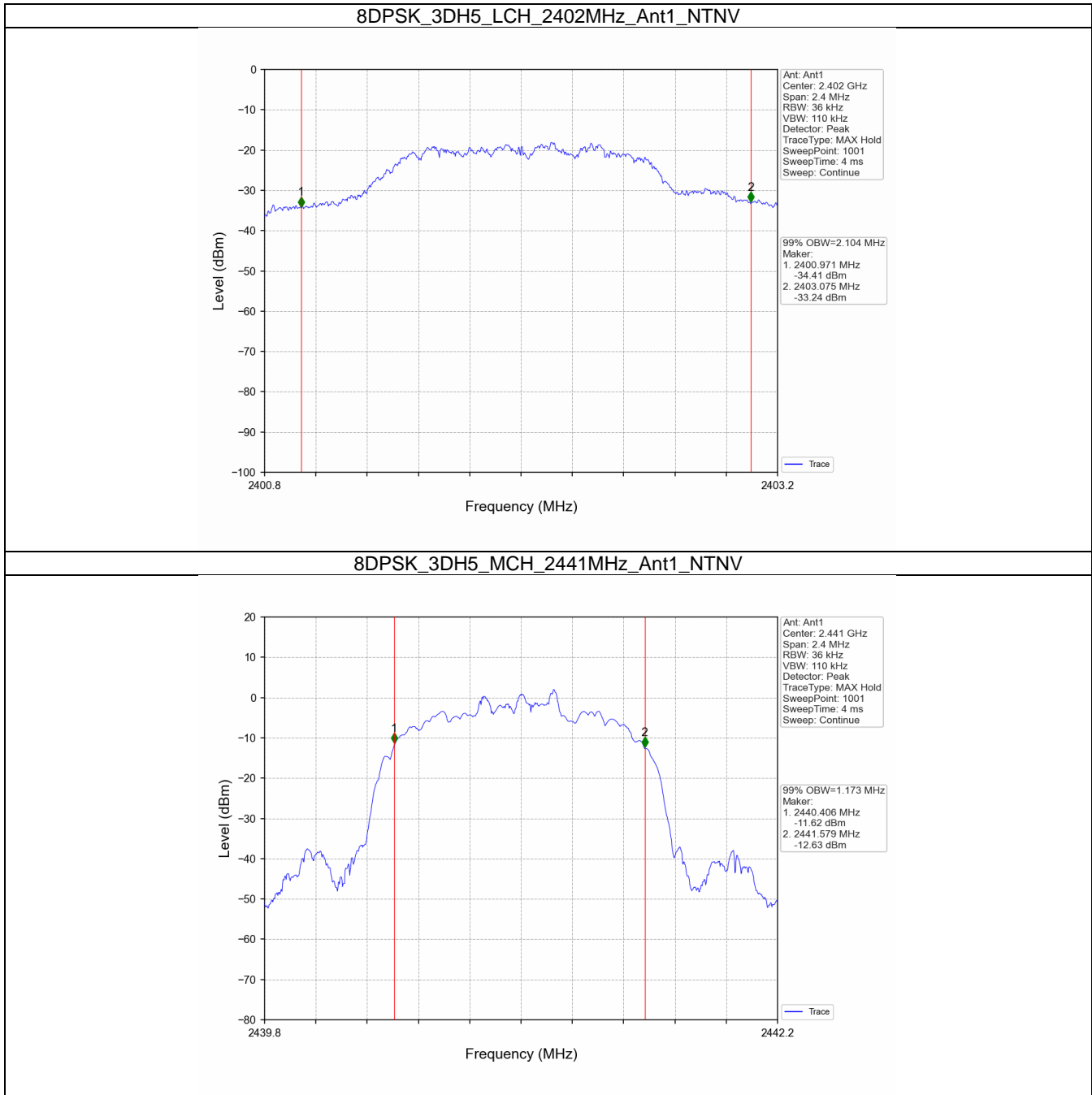


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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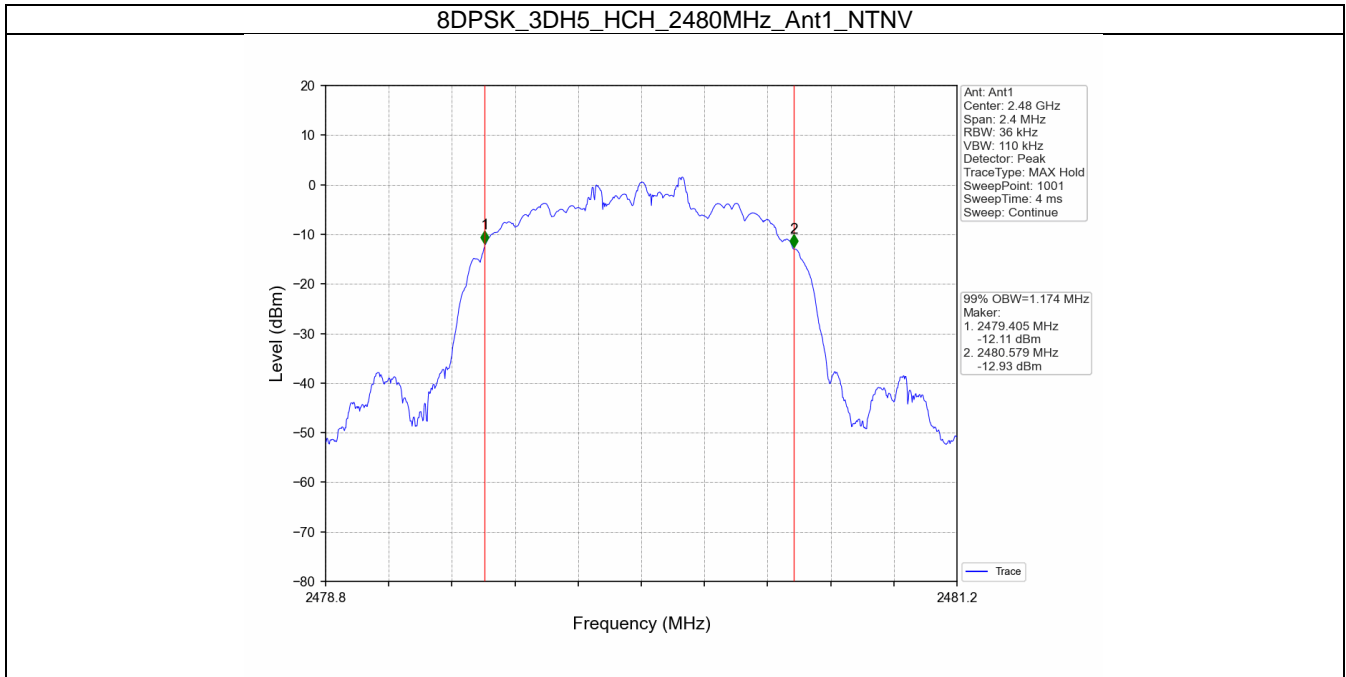


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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.952	Pass
		2441	DH5	1	0.946	Pass
		2480	DH5	1	0.957	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.304	Pass
		2441	2DH5	1	1.305	Pass
		2480	2DH5	1	1.305	Pass
8DPSK	SISO	2402	3DH5	1	1.299	Pass
		2441	3DH5	1	1.299	Pass
		2480	3DH5	1	1.303	Pass

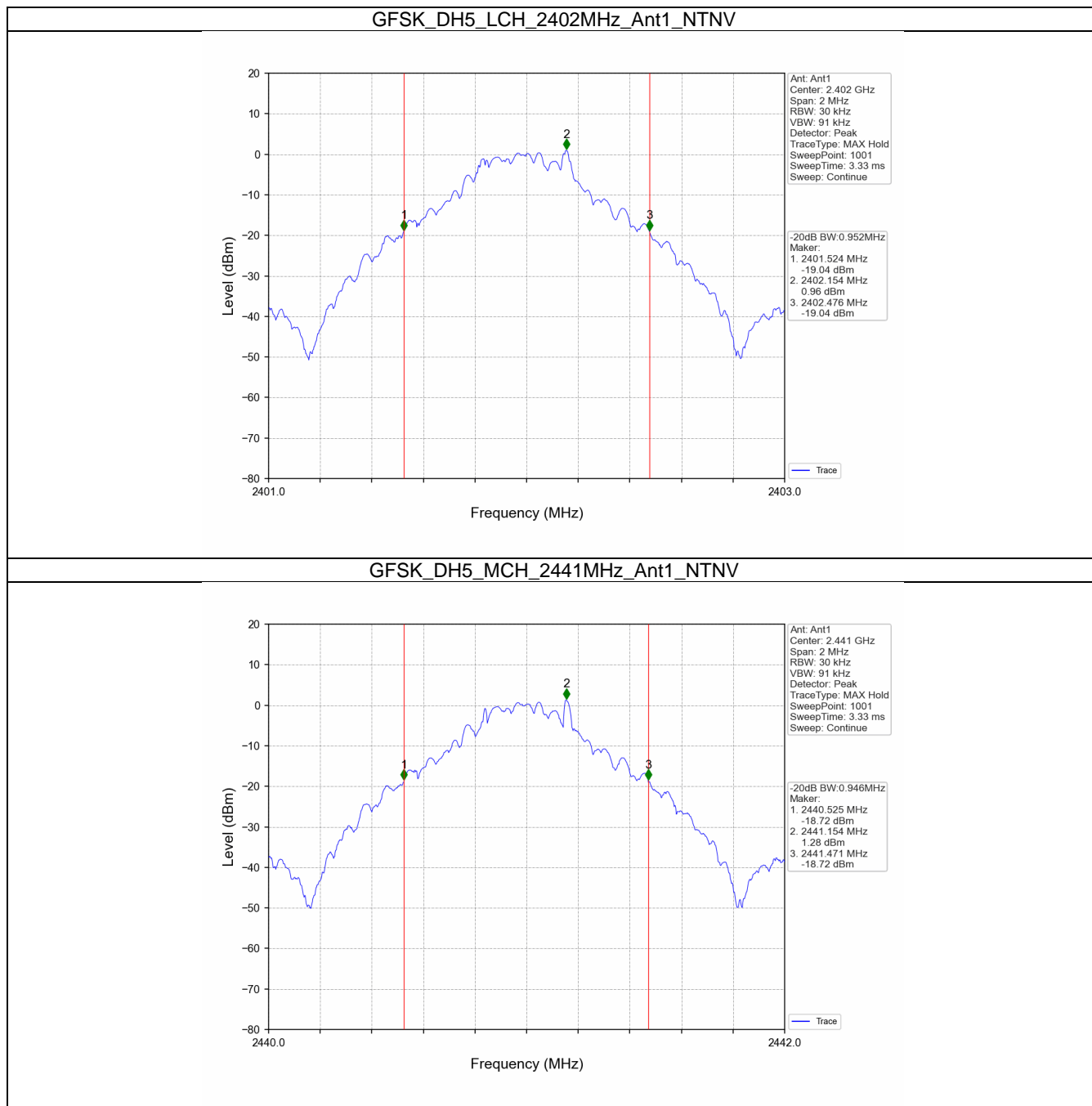


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1.2.2 Test Graph

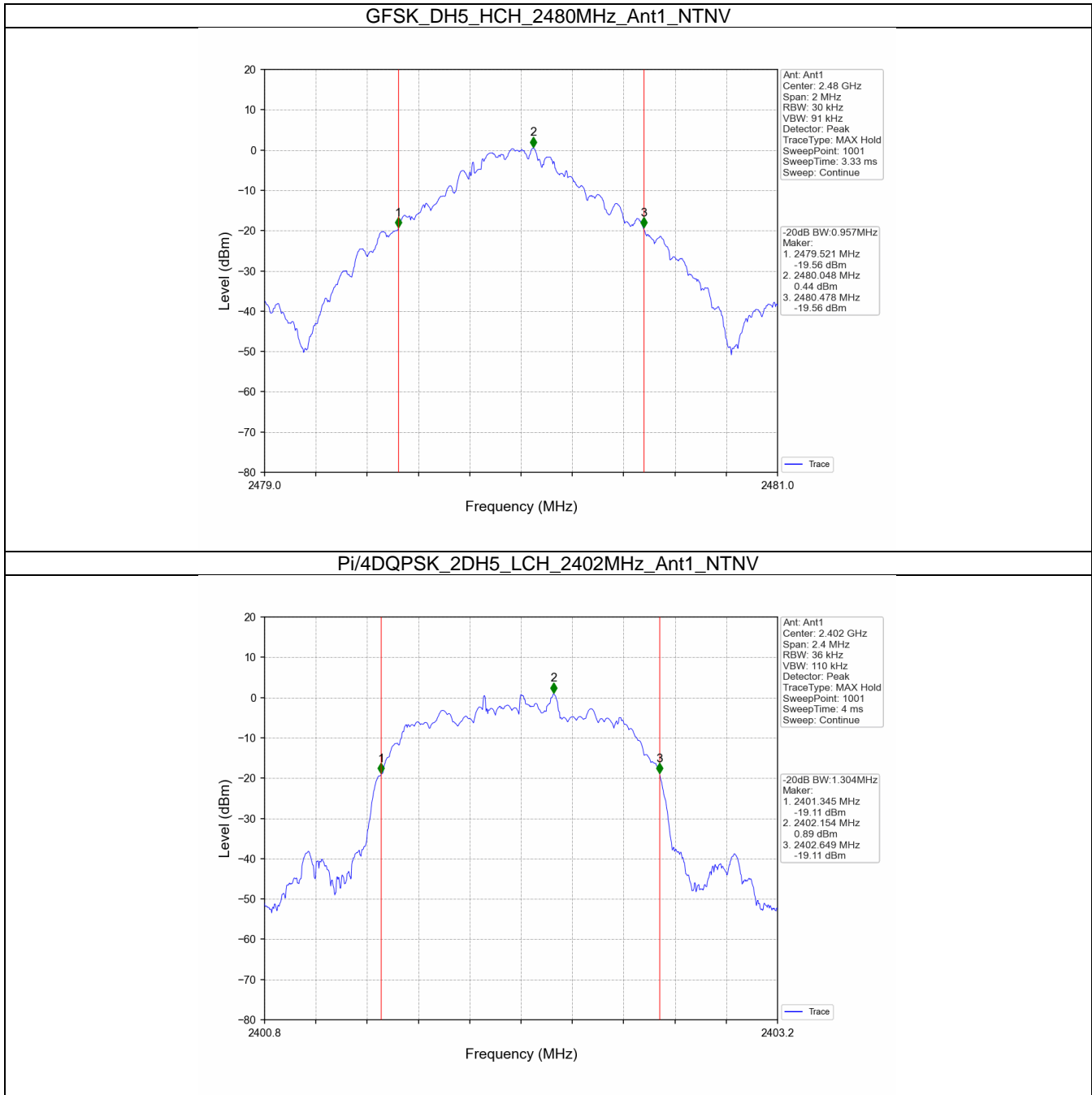


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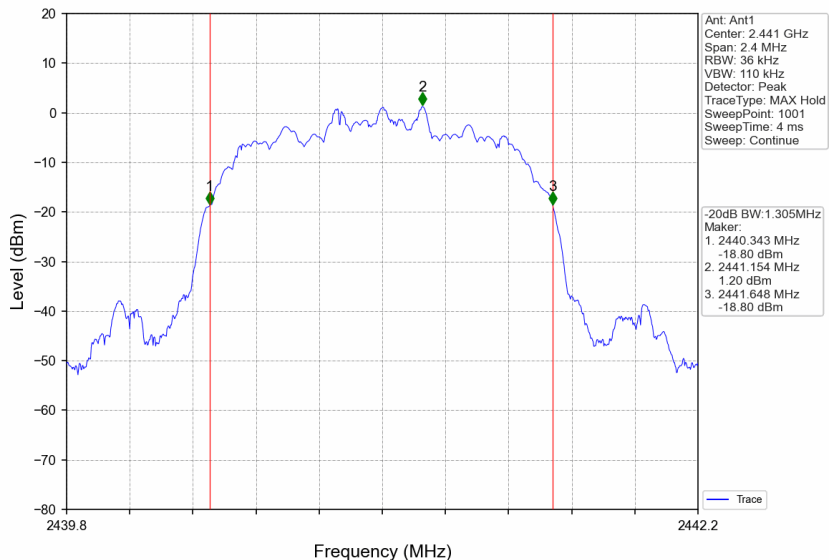
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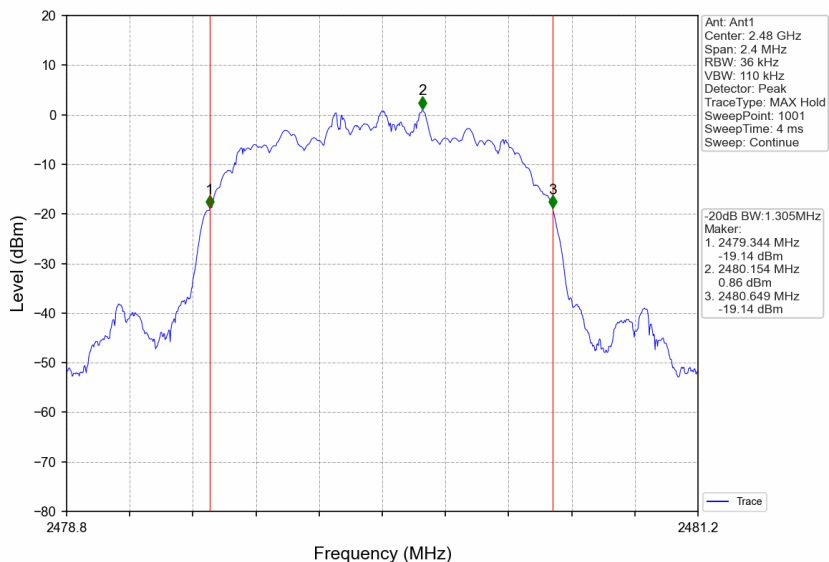
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



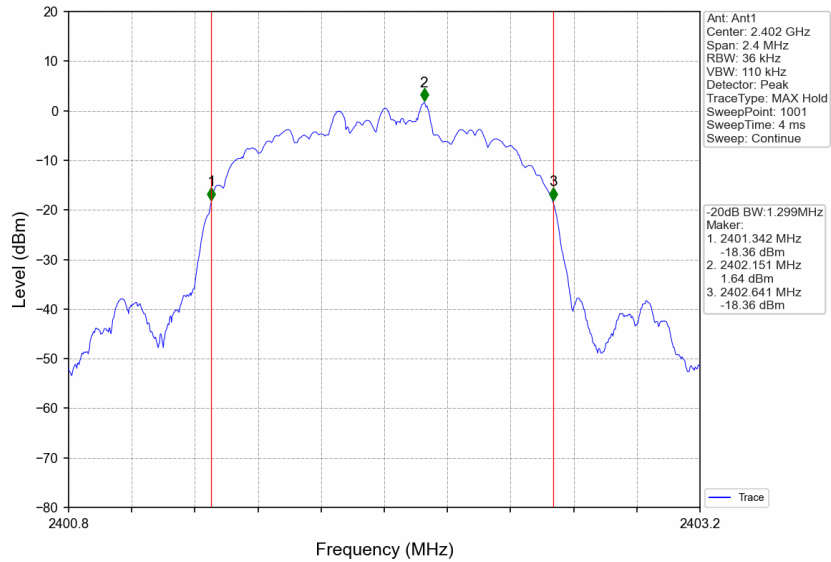
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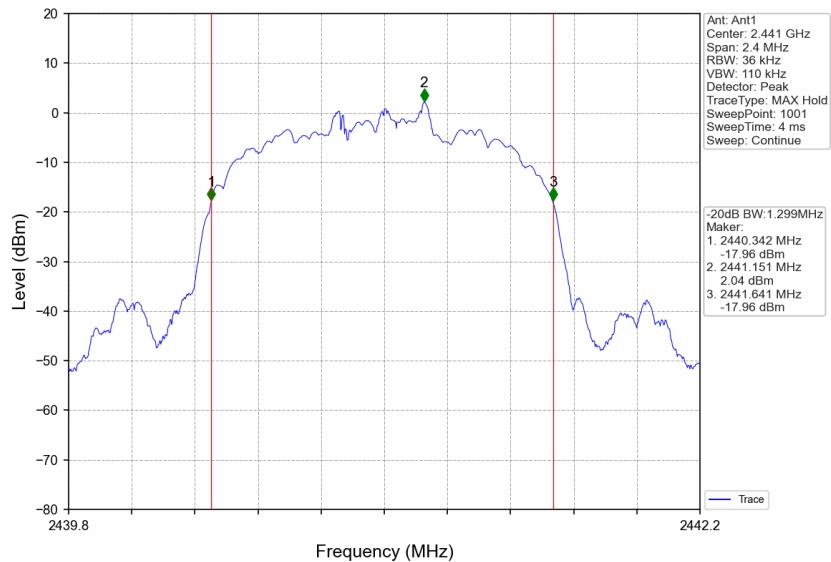
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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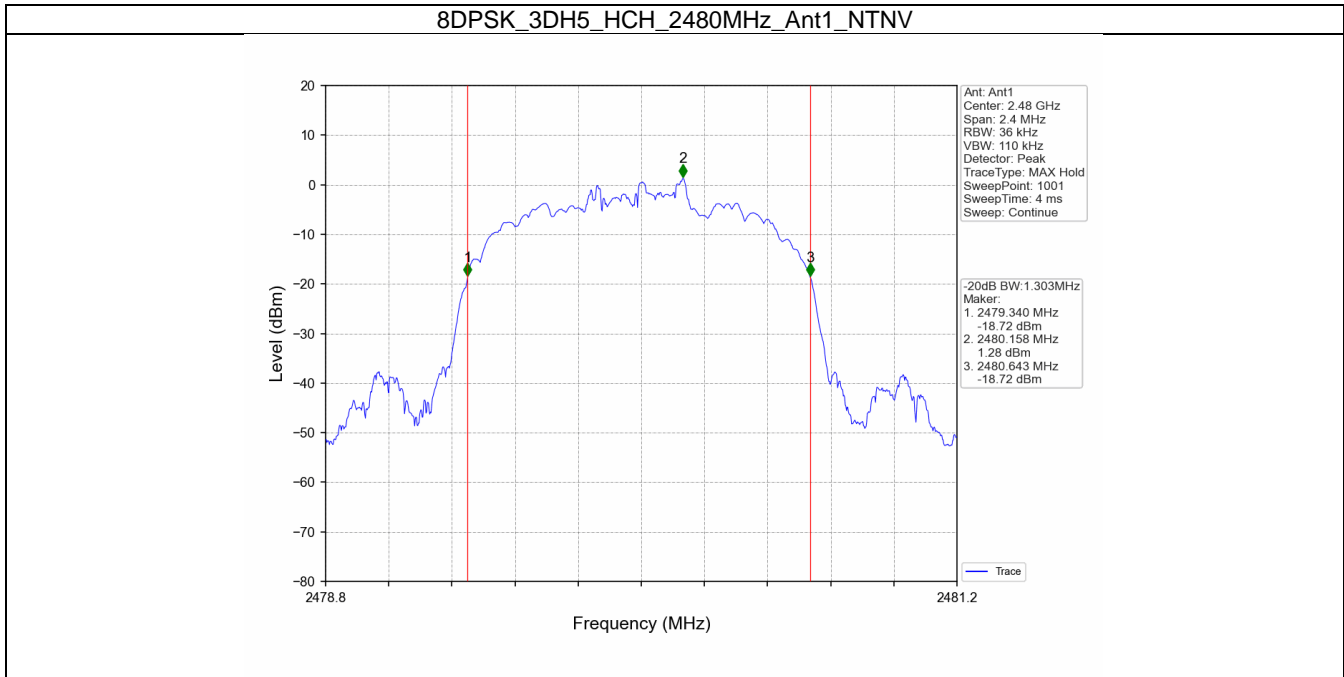
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				Ant1	Limit	
GFSK	SISO	2402	DH5	3.68	<=30	Pass
		2441	DH5	4.01	<=30	Pass
		2480	DH5	3.73	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	6.21	<=20.97	Pass
		2441	2DH5	6.48	<=20.97	Pass
		2480	2DH5	6.17	<=20.97	Pass
8DPSK	SISO	2402	3DH5	6.50	<=20.97	Pass
		2441	3DH5	6.84	<=20.97	Pass
		2480	3DH5	6.51	<=20.97	Pass

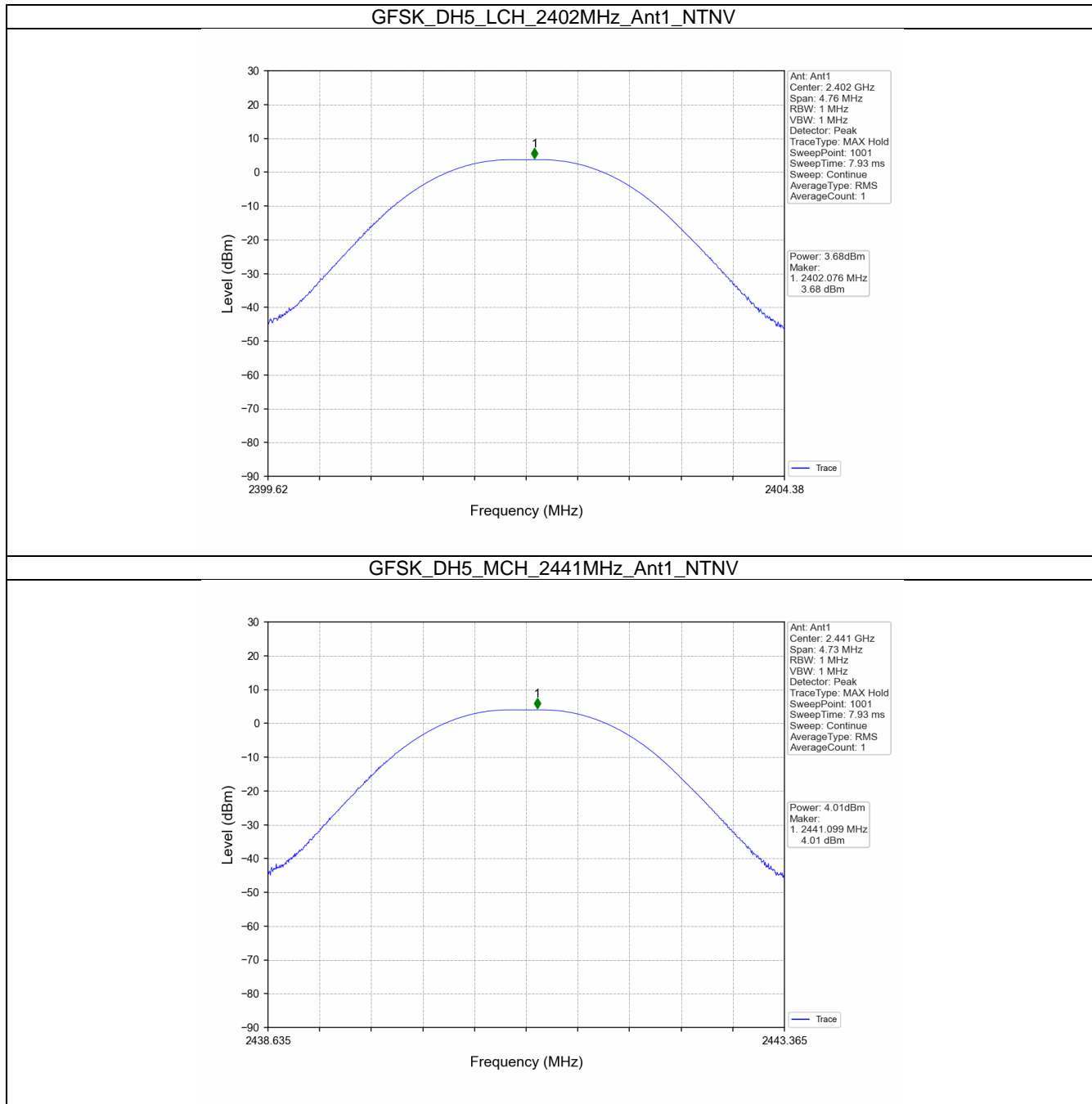
Note1: Antenna Gain: Ant1: 5.19dBi;



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2.1.2 Test Graph

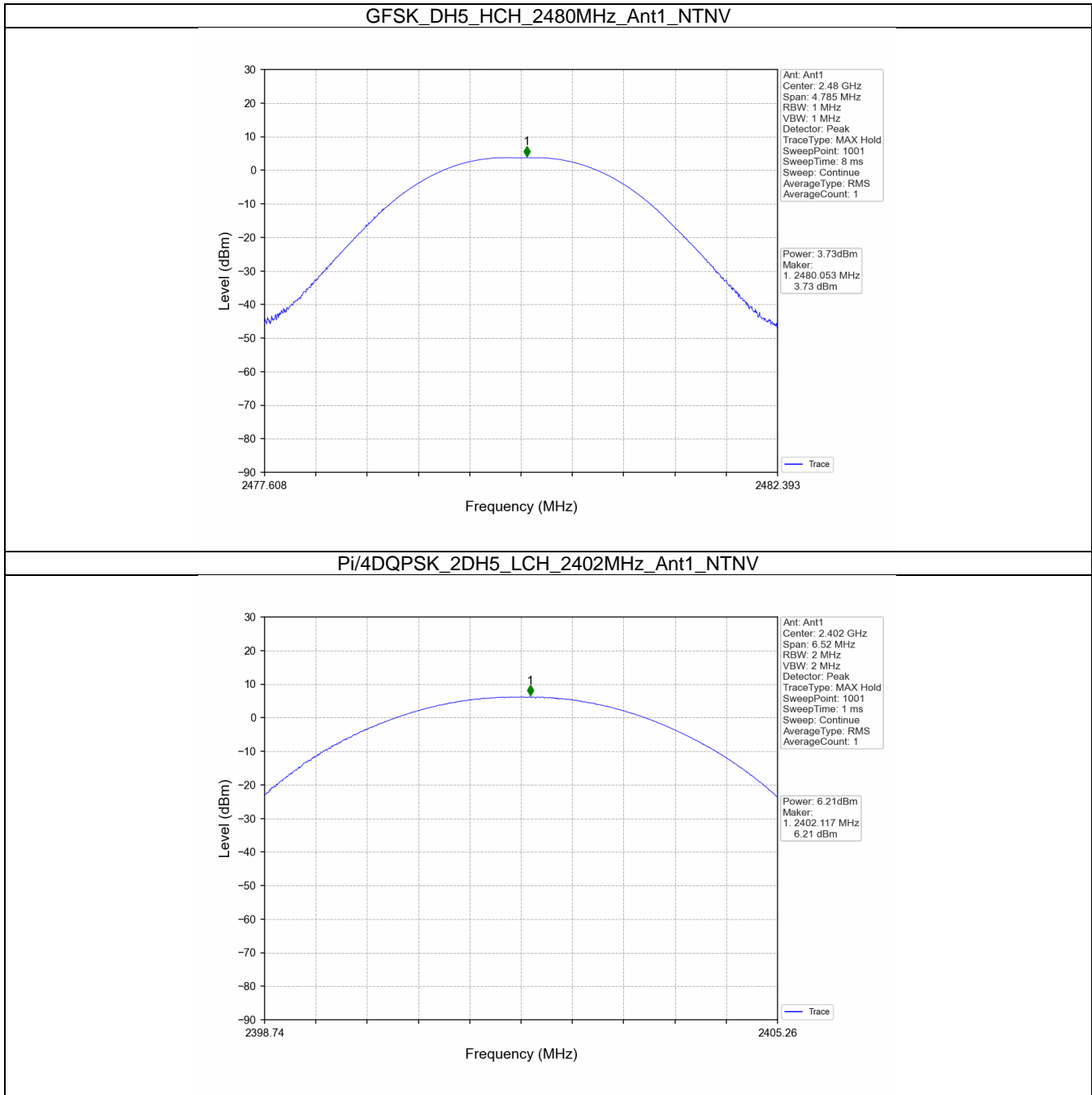


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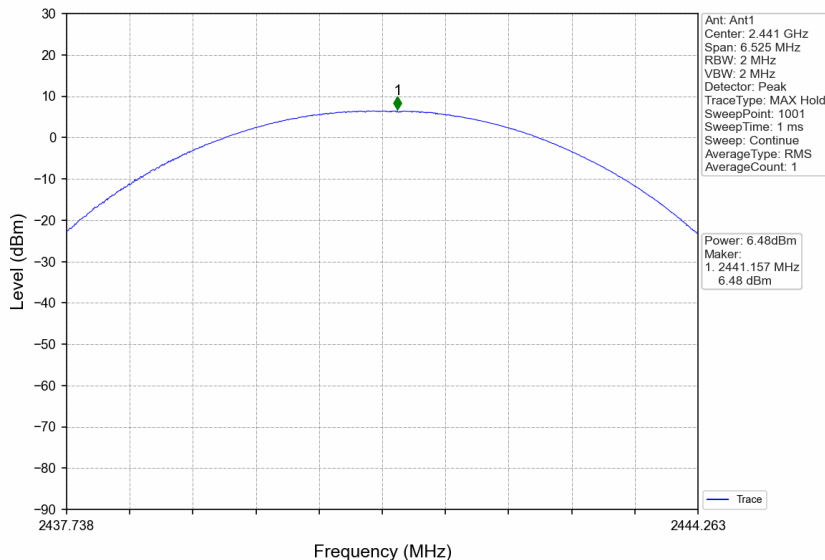
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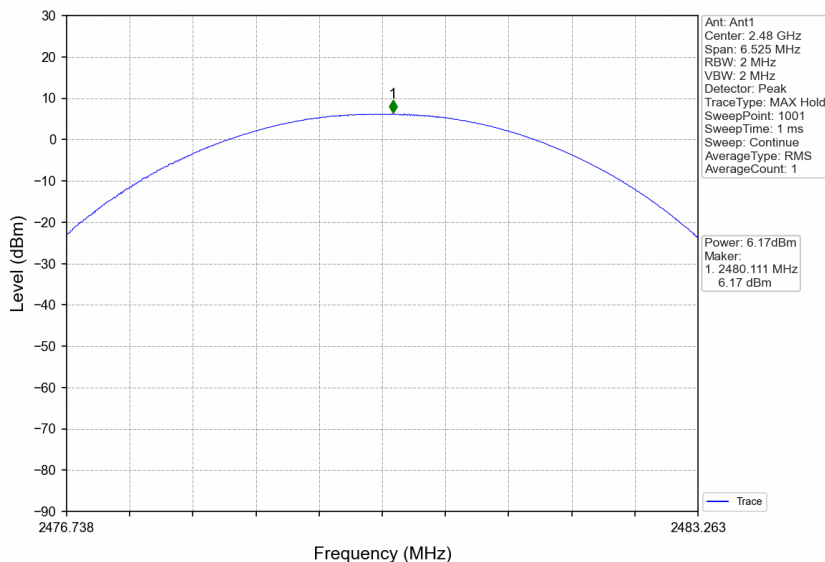
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



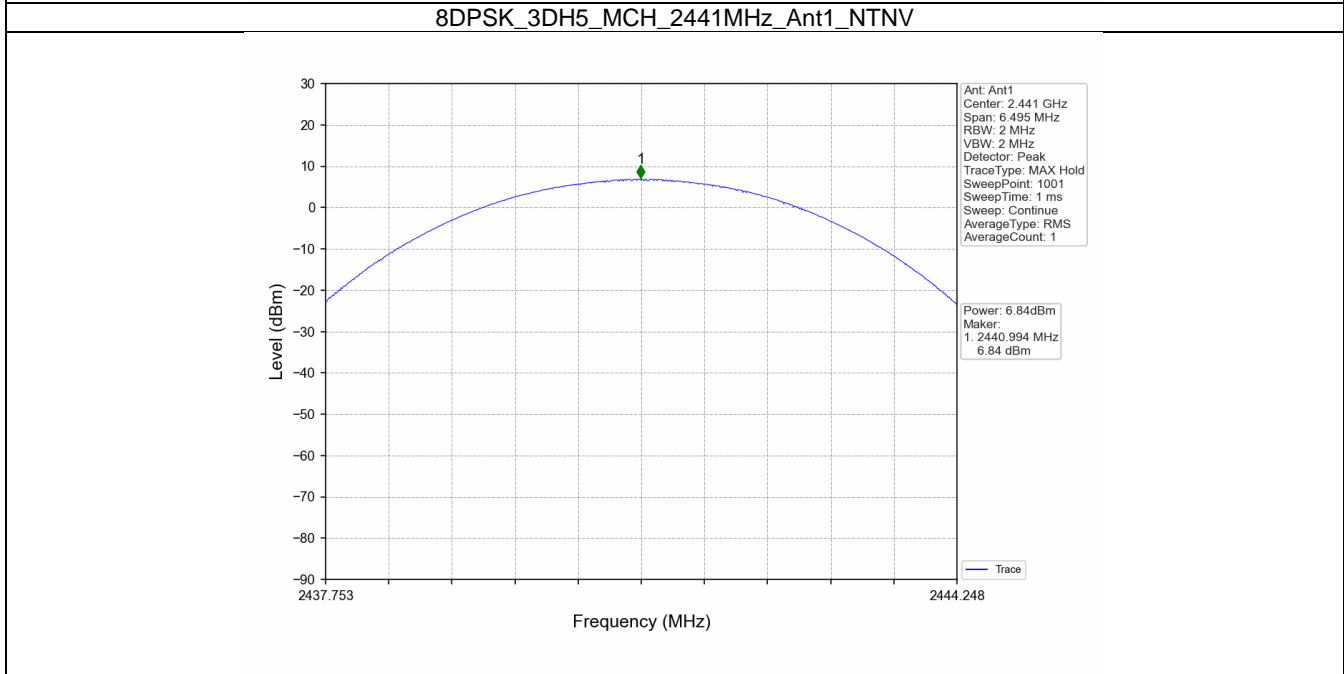
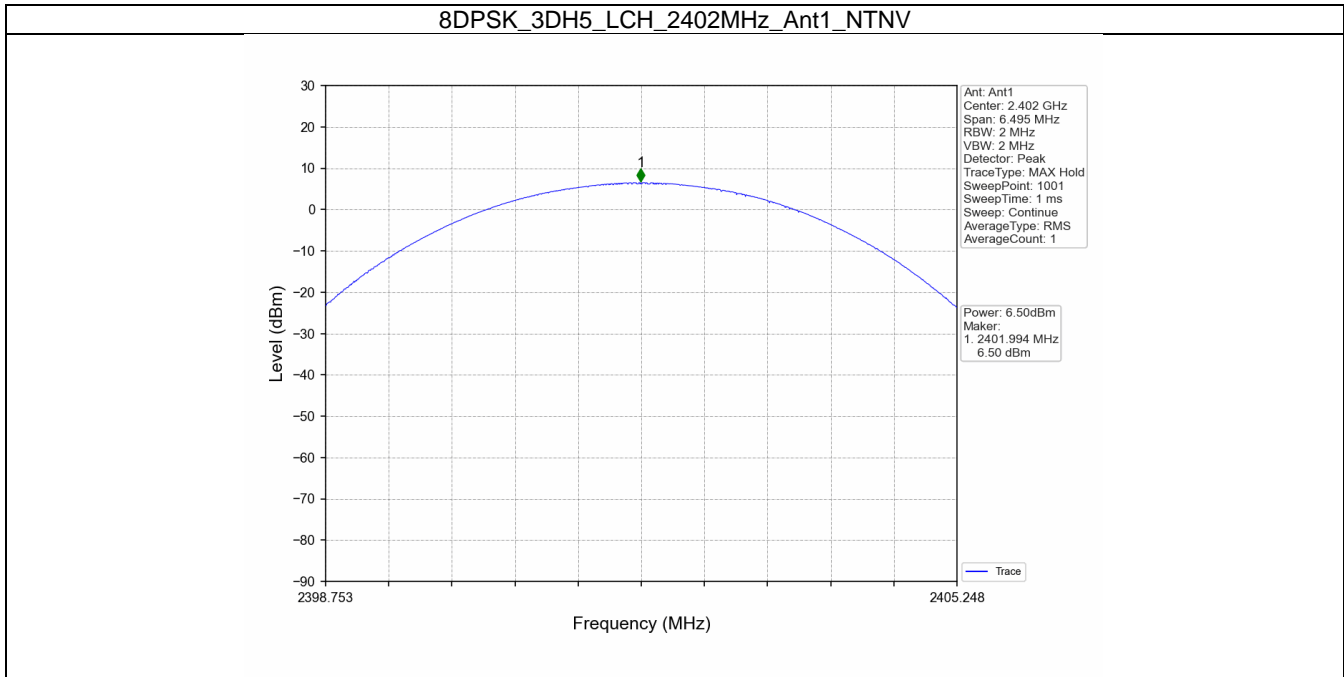
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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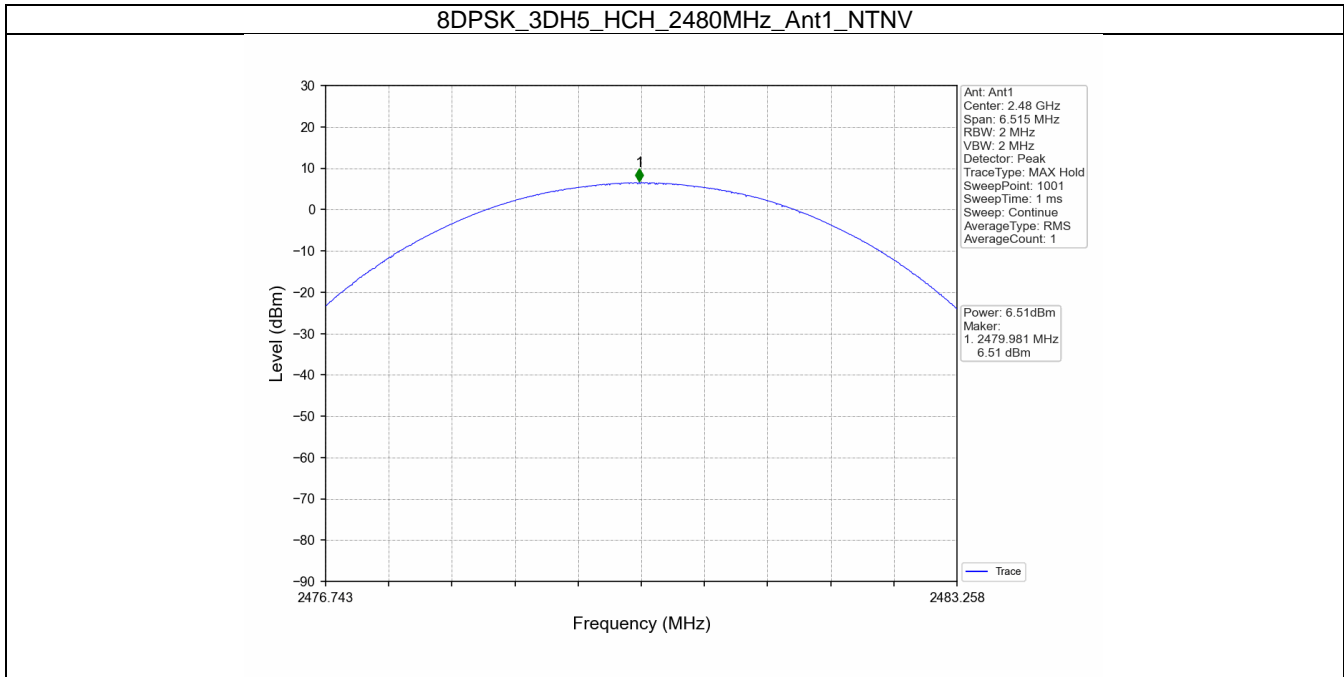
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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

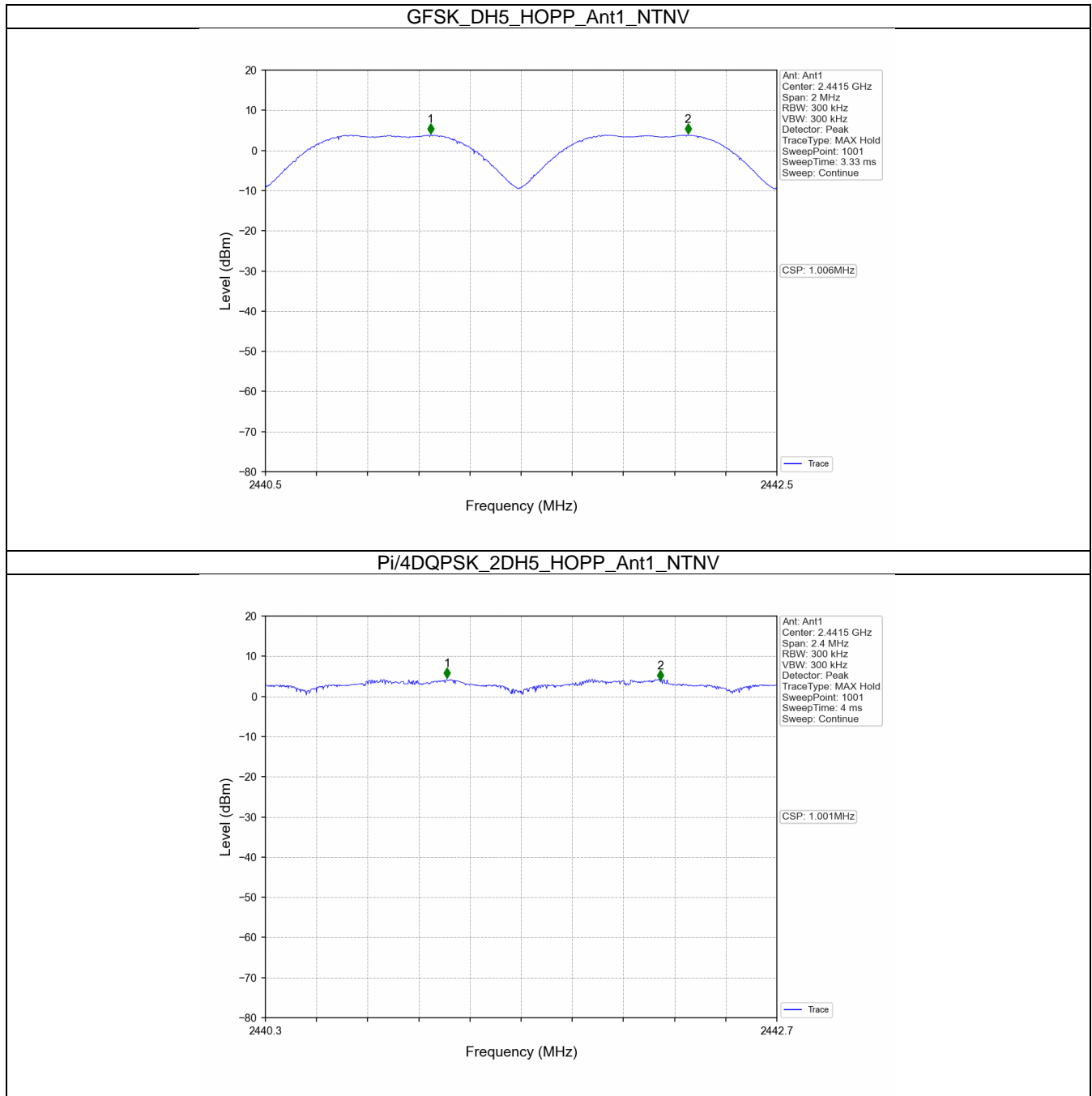
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.006	0.957	>=0.957	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.305	>=0.87	Pass
8DPSK	SISO	HOPP	3DH5	0.984	1.303	>=0.869	Pass



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3.1.2 Test Graph

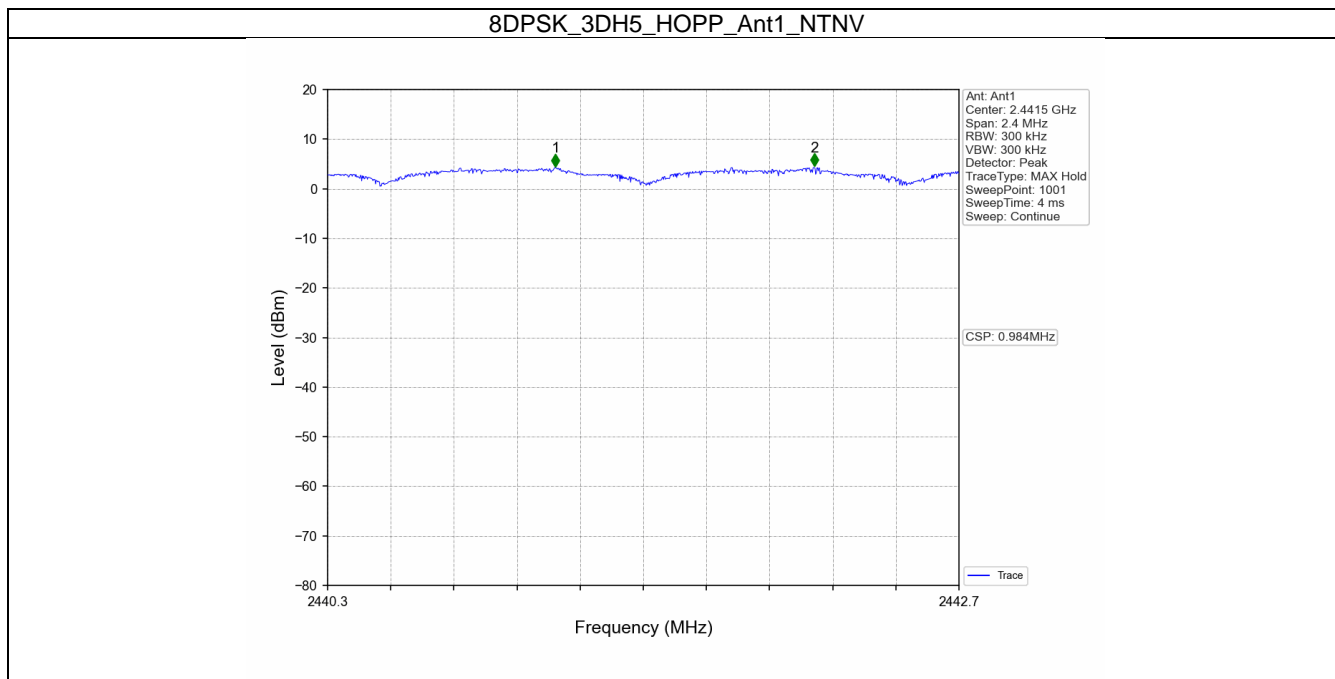


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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

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



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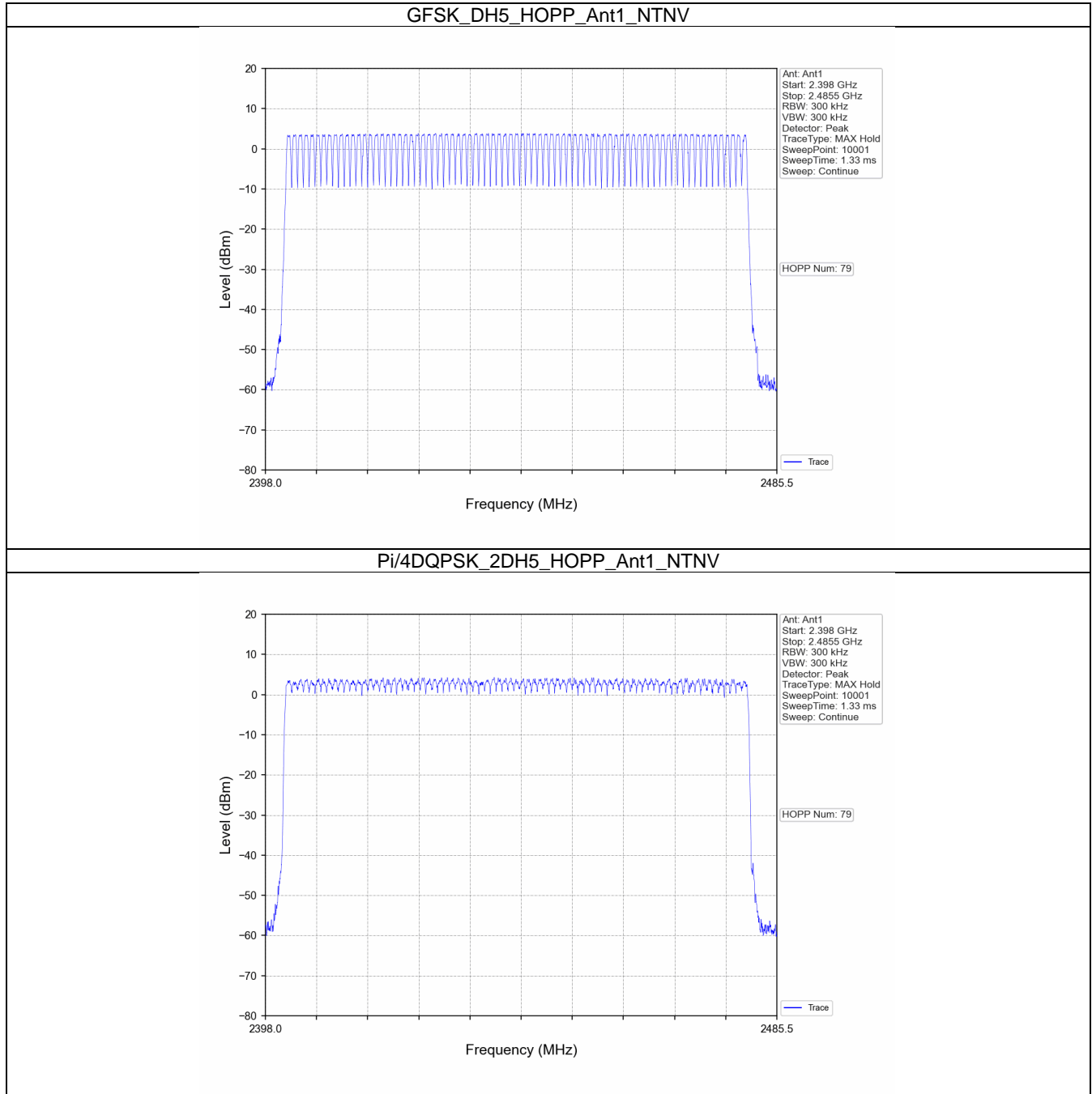
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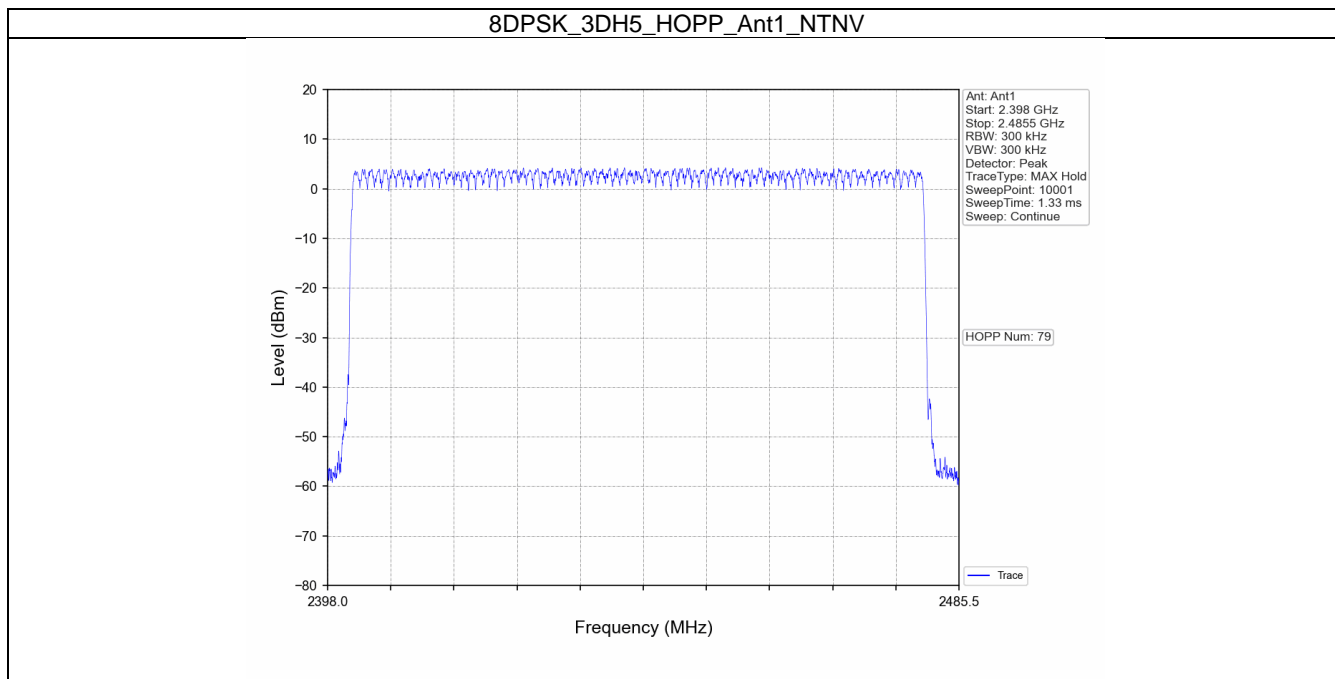
4.1.2 Test Graph



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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
GFSK	SISO	HOPP	DH1	0.374	31.600	165	61.710	<=400	Pass
			DH3	1.630	31.600	164	267.320	<=400	Pass
			DH5	2.878	31.600	89	256.142	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.380	31.600	167	63.460	<=400	Pass
			2DH3	1.634	31.600	165	269.610	<=400	Pass
			2DH5	2.882	31.600	86	247.852	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.382	31.600	166	63.412	<=400	Pass
			3DH3	1.632	31.600	164	267.648	<=400	Pass
			3DH5	2.882	31.600	84	242.088	<=400	Pass



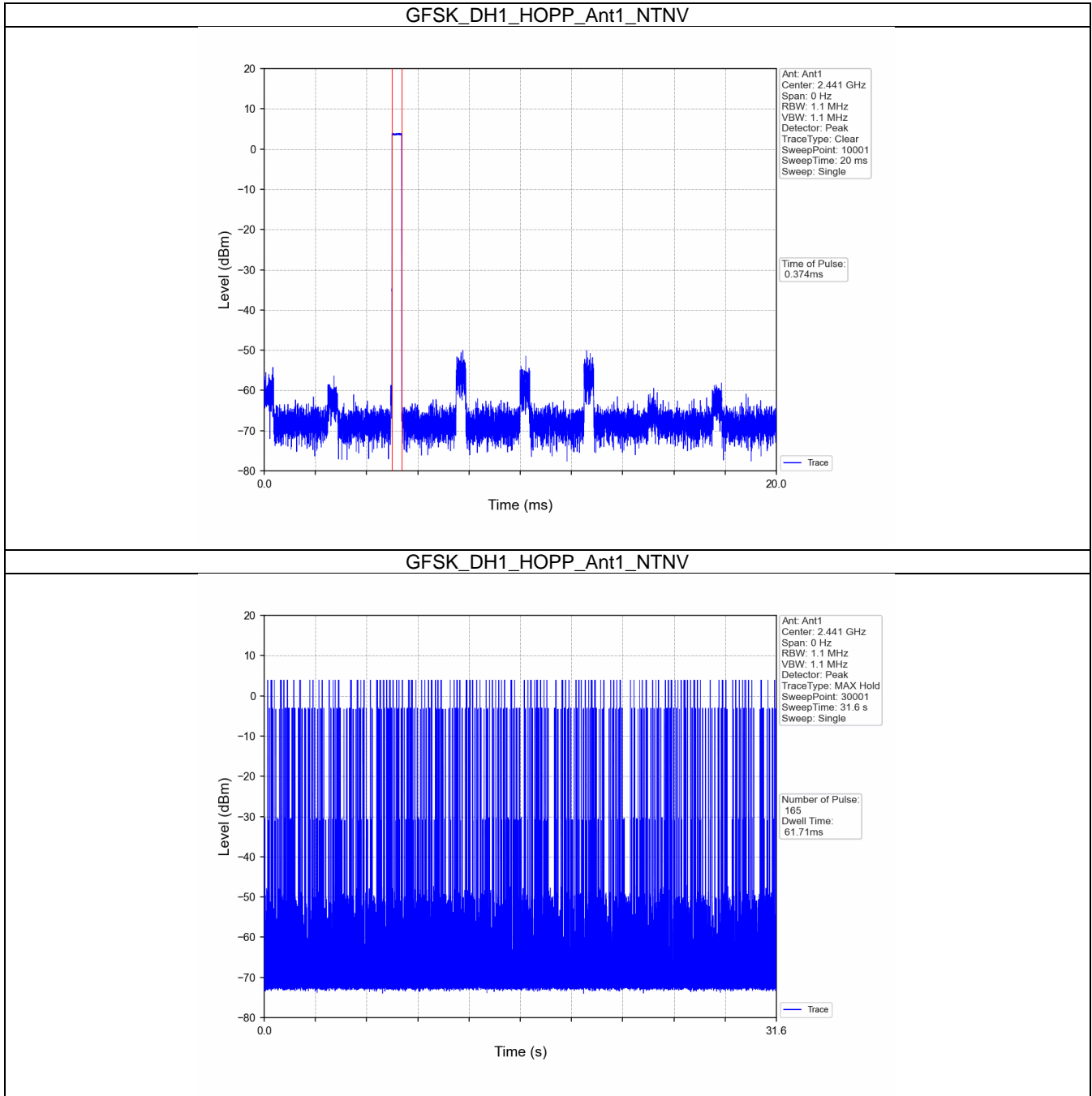
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5.1.2 Test Graph

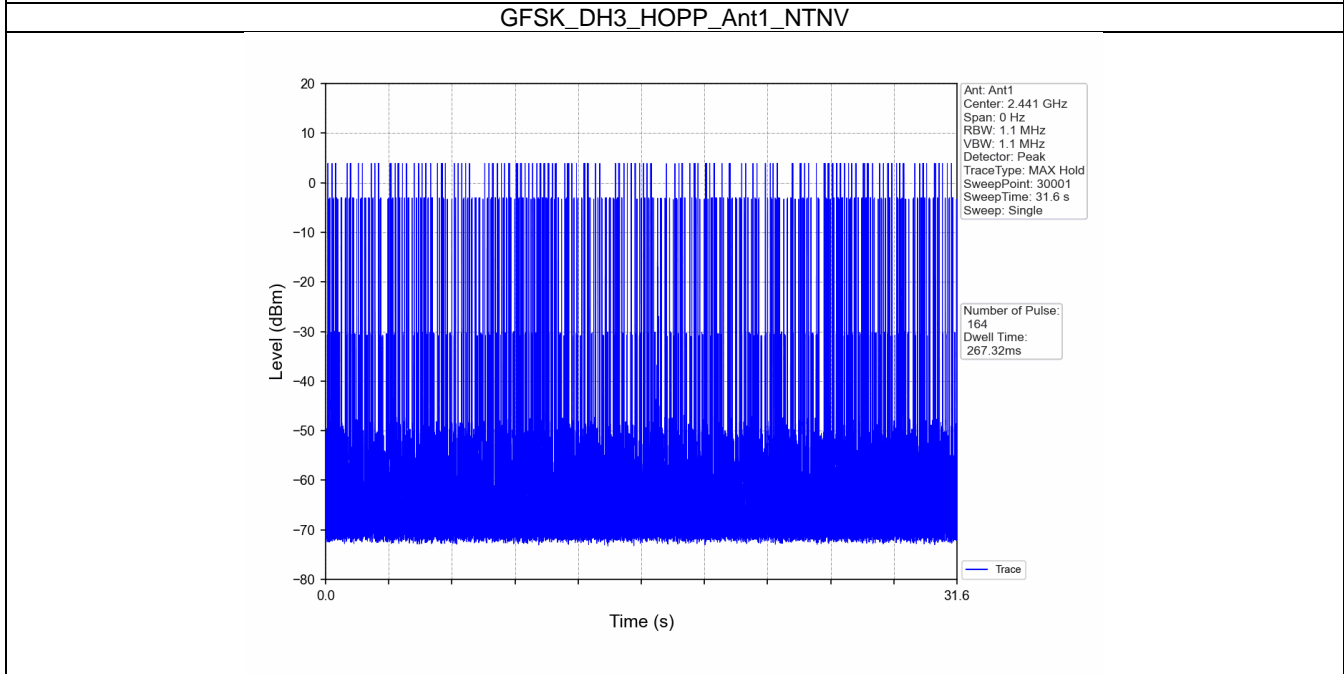
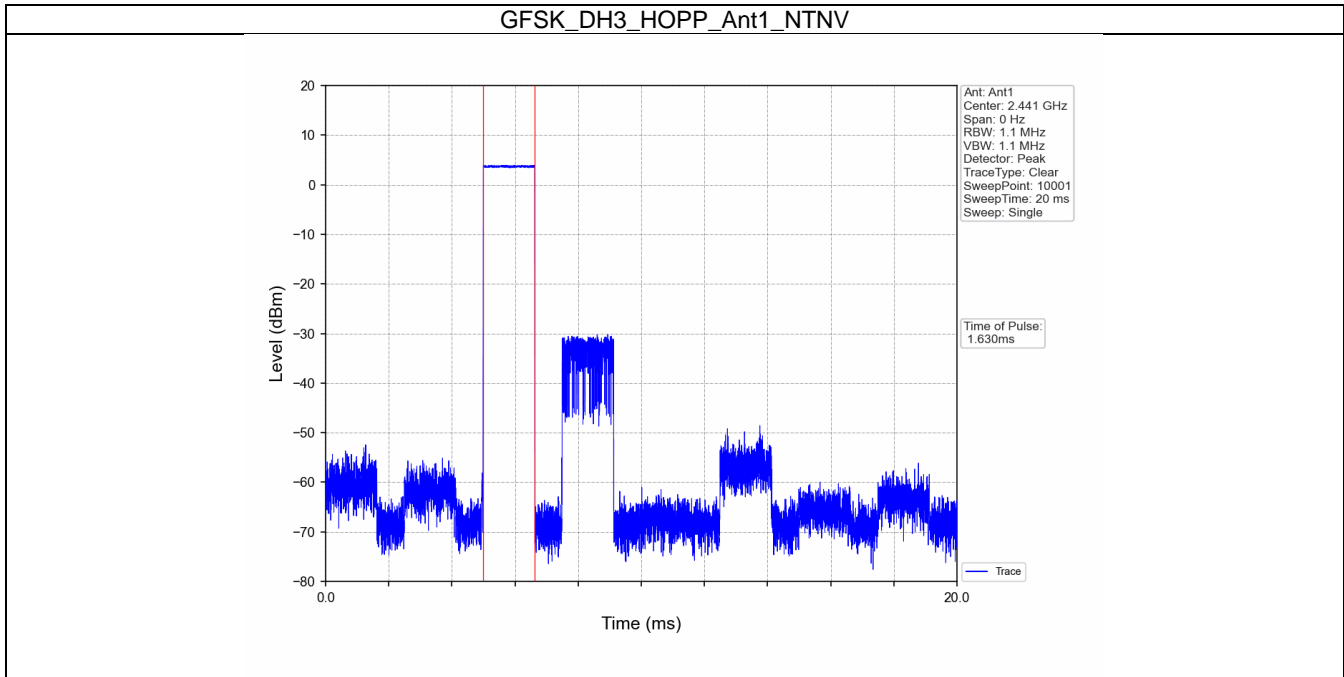


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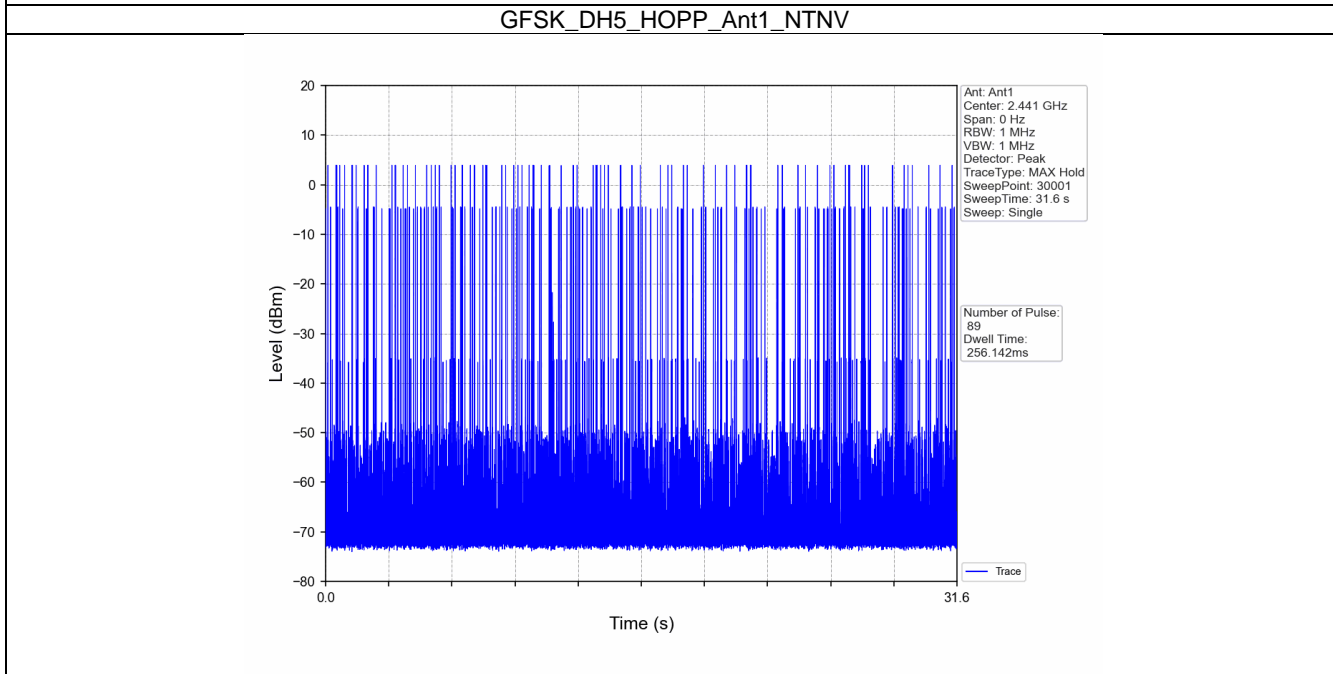
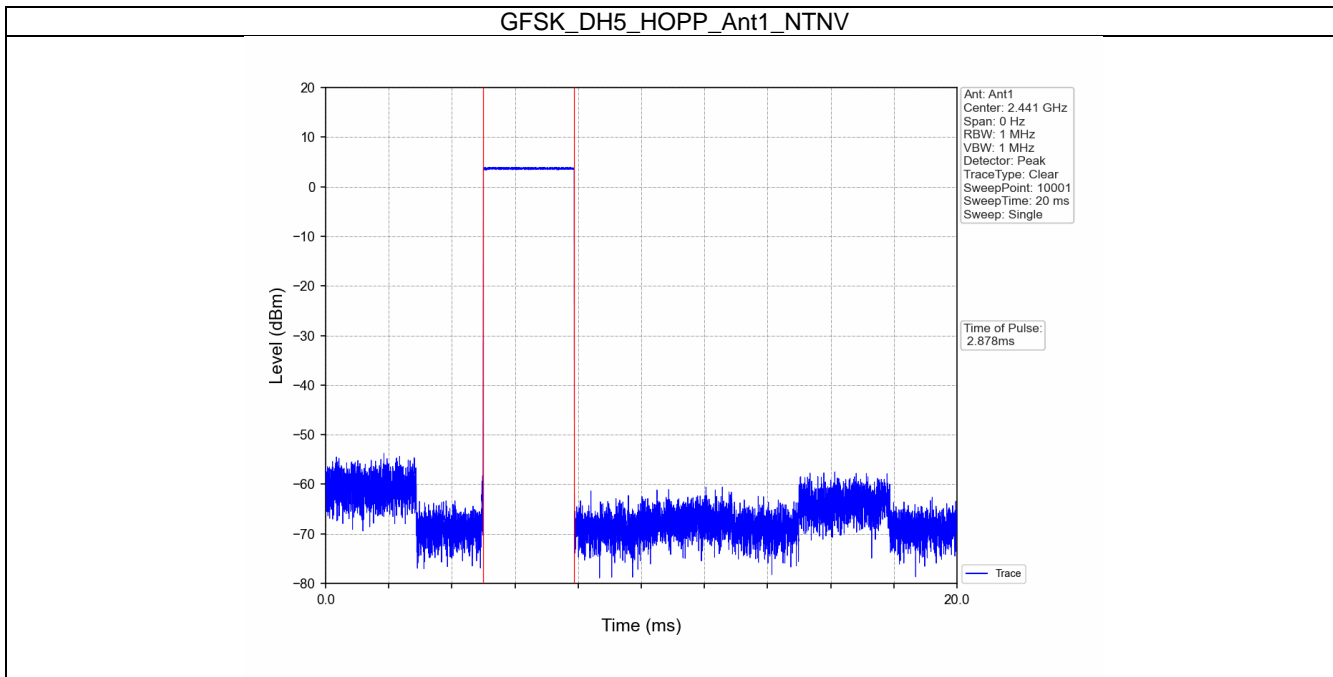
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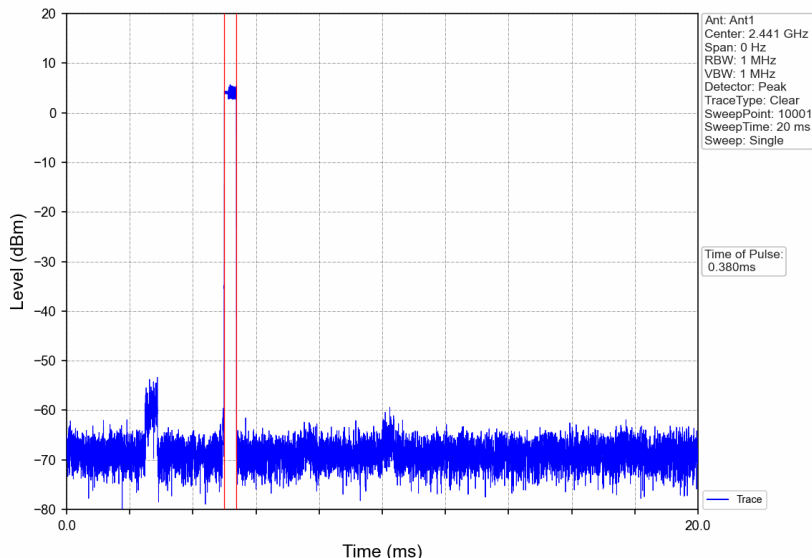


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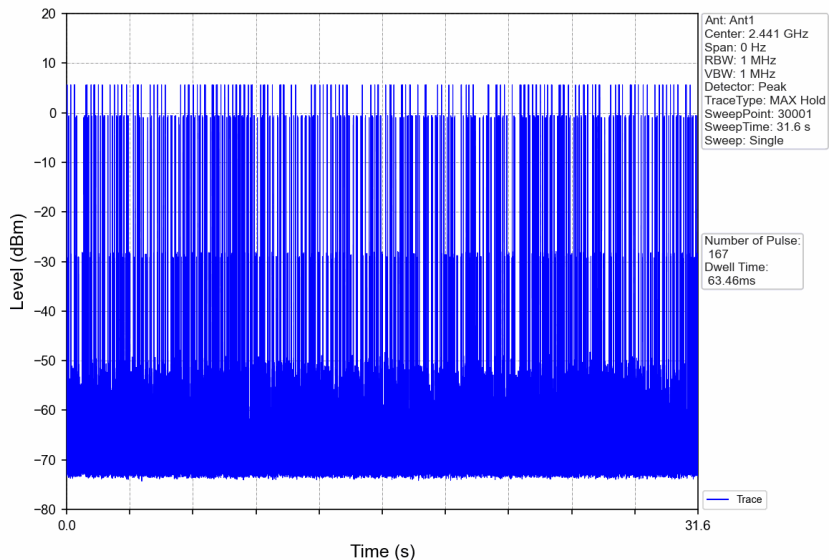
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

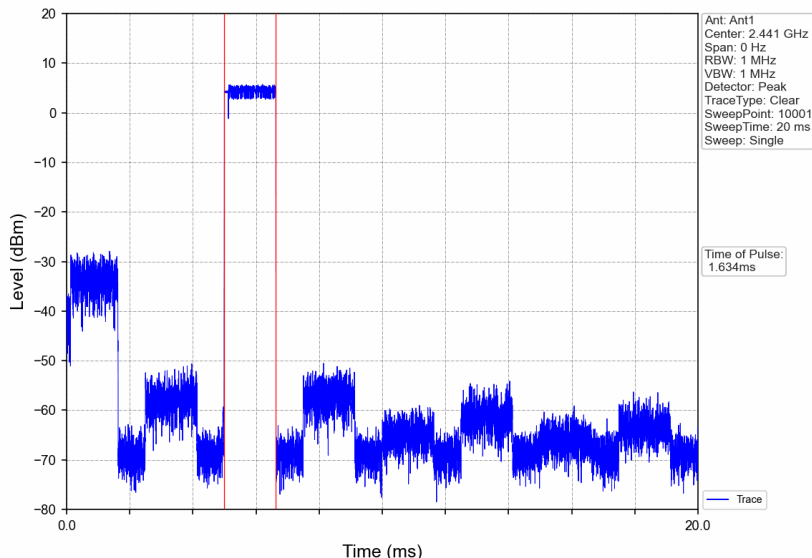


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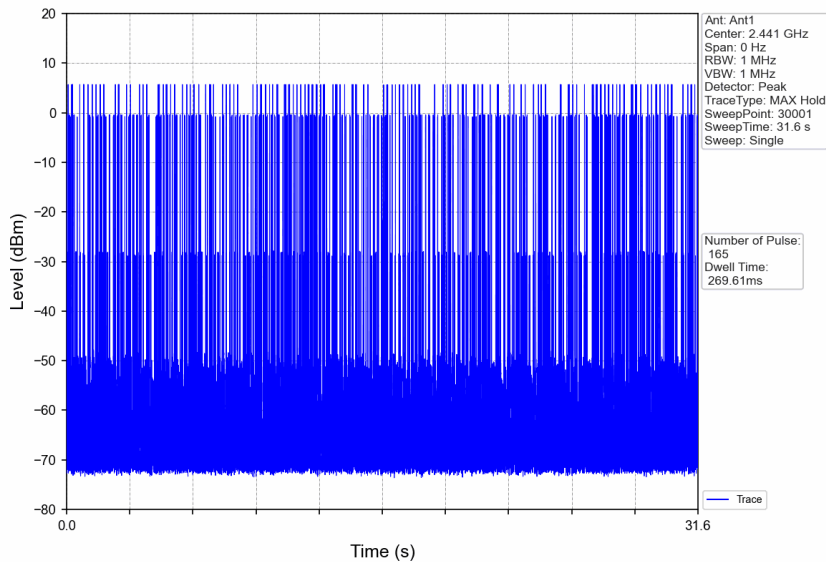
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

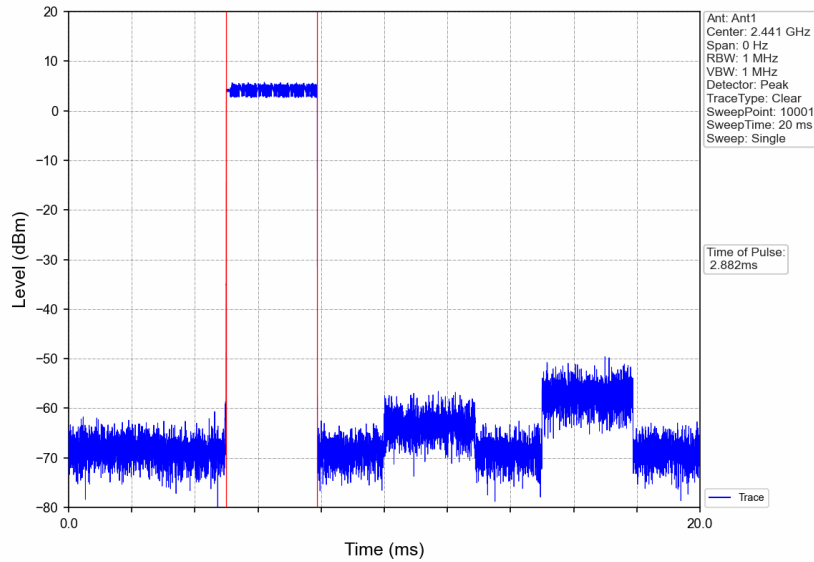


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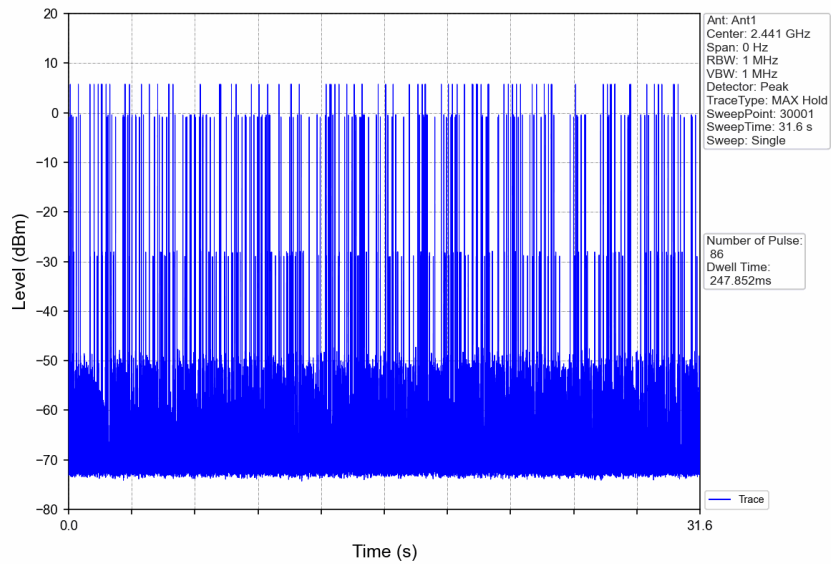
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



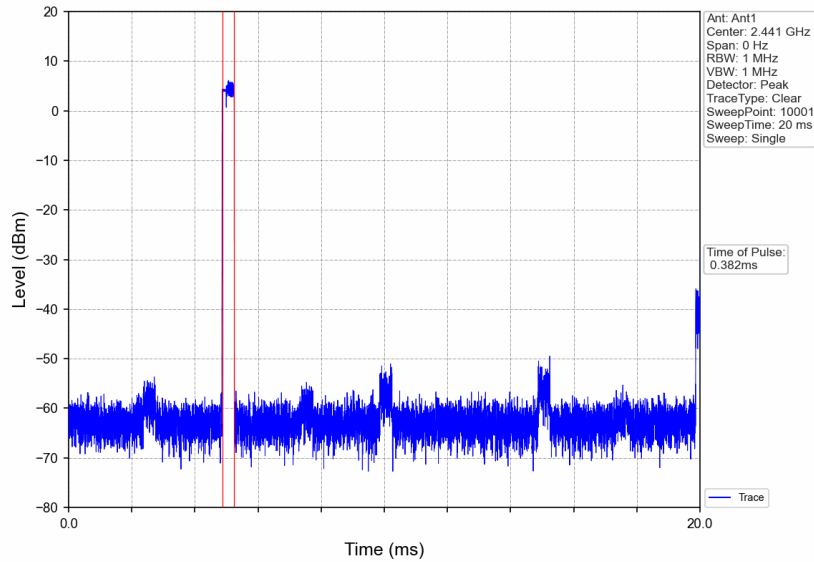
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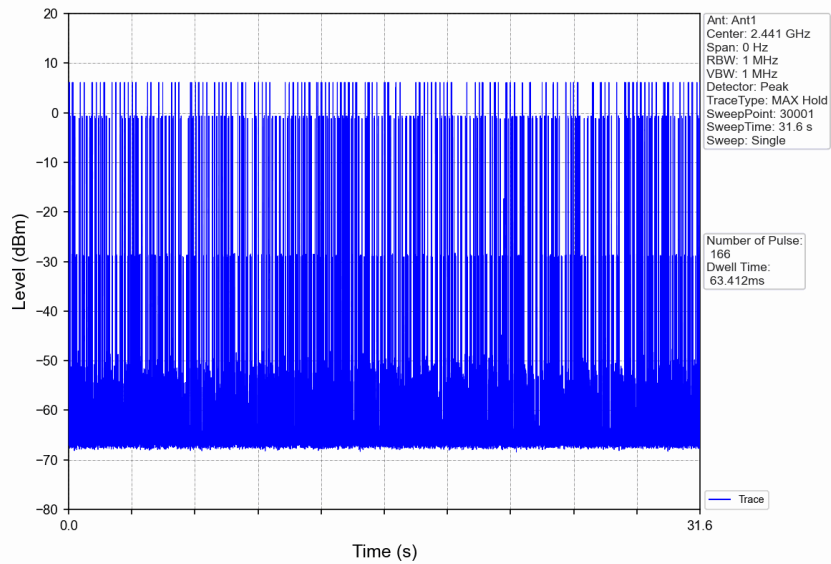
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8DPSK_3DH1_HOPP_Ant1_NTNV



8DPSK_3DH1_HOPP_Ant1_NTNV

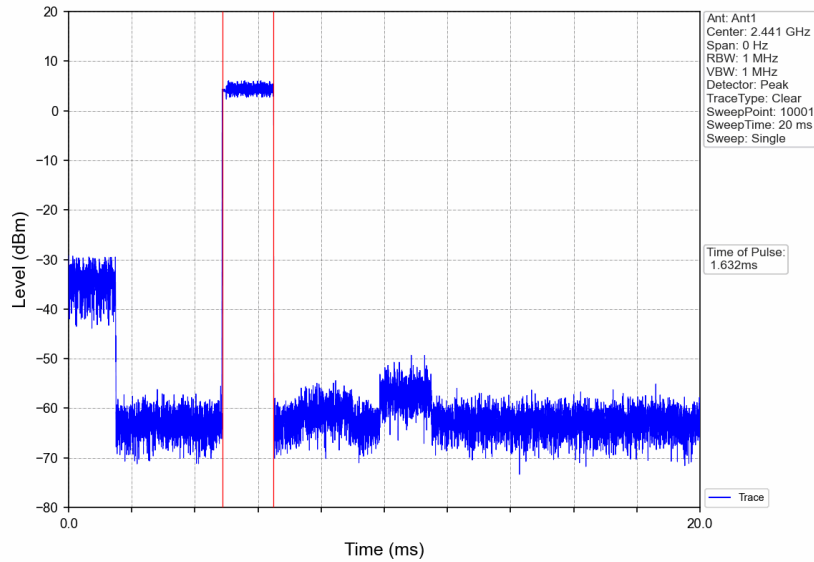


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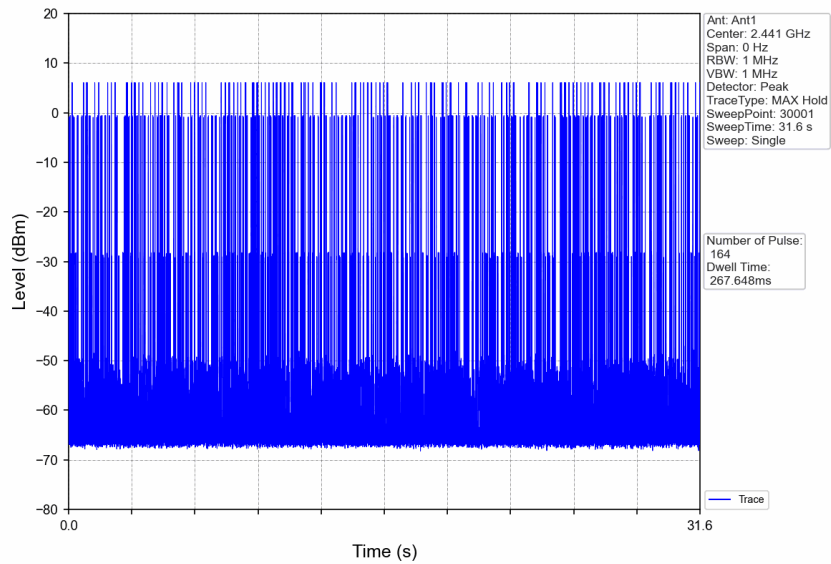
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8DPSK_3DH3_HOPP_Ant1_NTNV



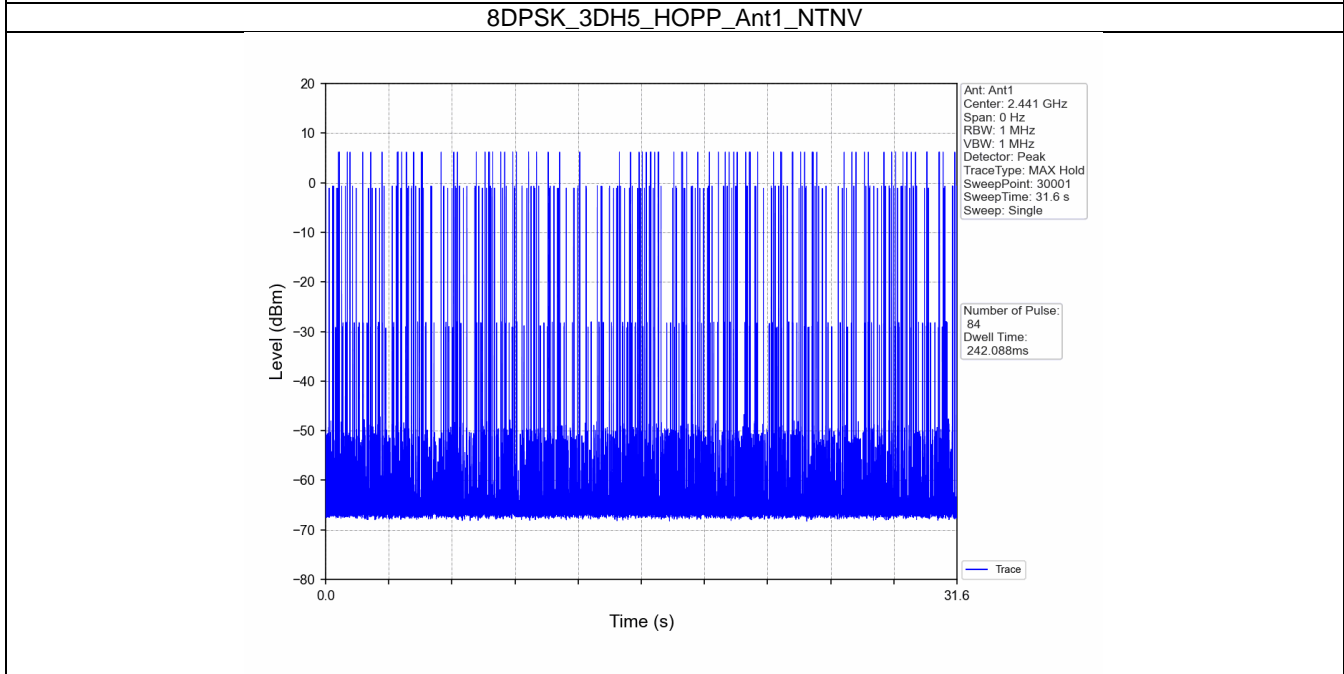
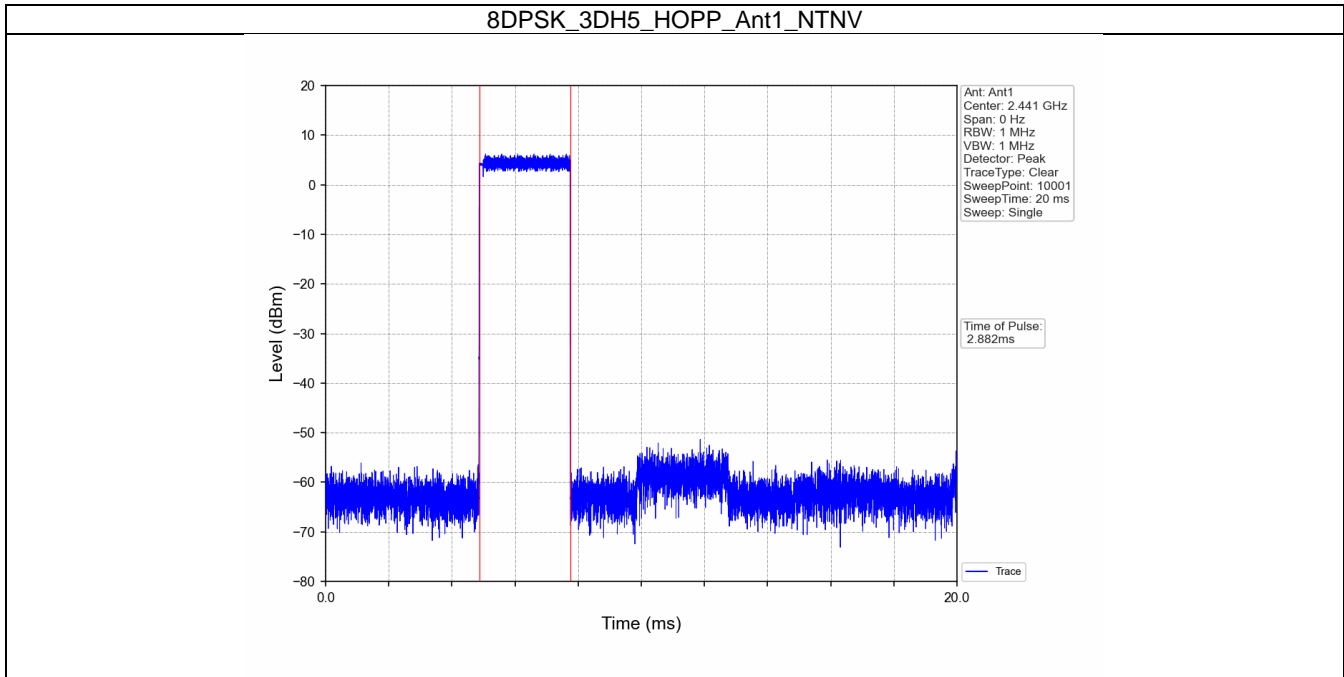
8DPSK_3DH3_HOPP_Ant1_NTNV



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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	3.29
		2441	DH5	1	3.61
		2480	DH5	1	3.32
Pi/4DQPSK	SISO	2402	2DH5	1	3.72
		2441	2DH5	1	3.93
		2480	2DH5	1	3.73
8DPSK	SISO	2402	3DH5	1	3.61
		2441	3DH5	1	3.95
		2480	3DH5	1	3.66

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: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

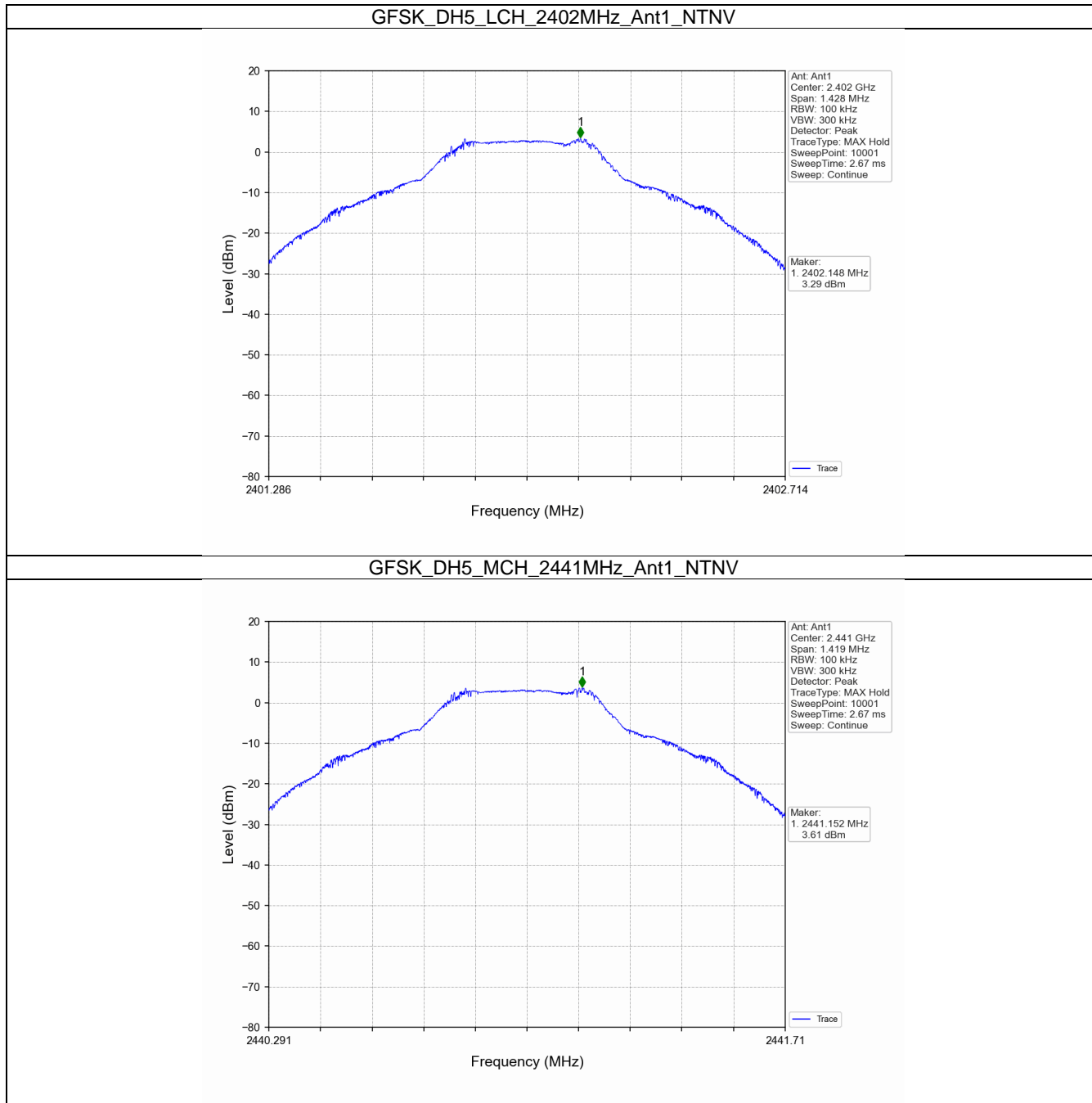


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6.1.2 Test Graph

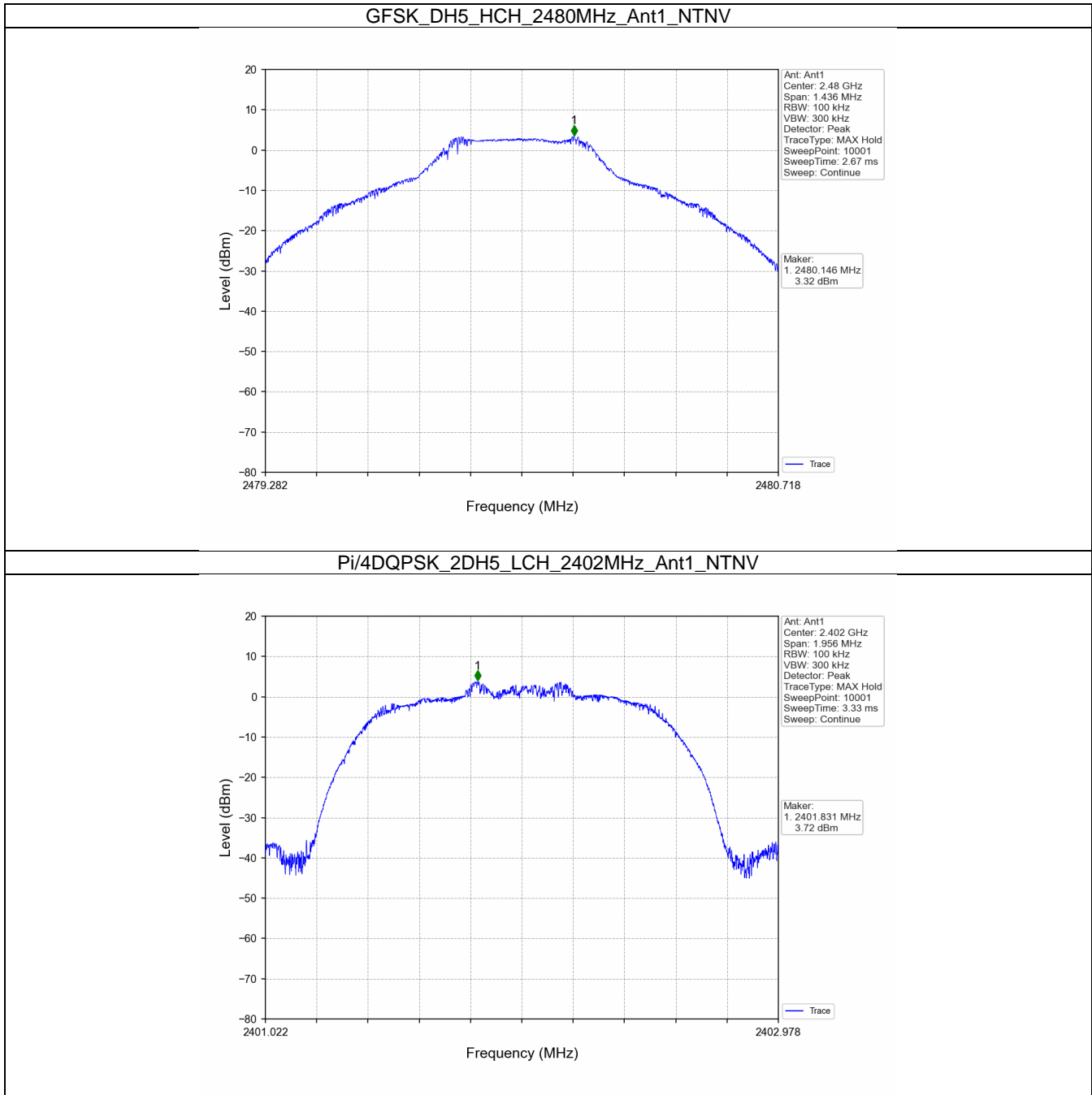


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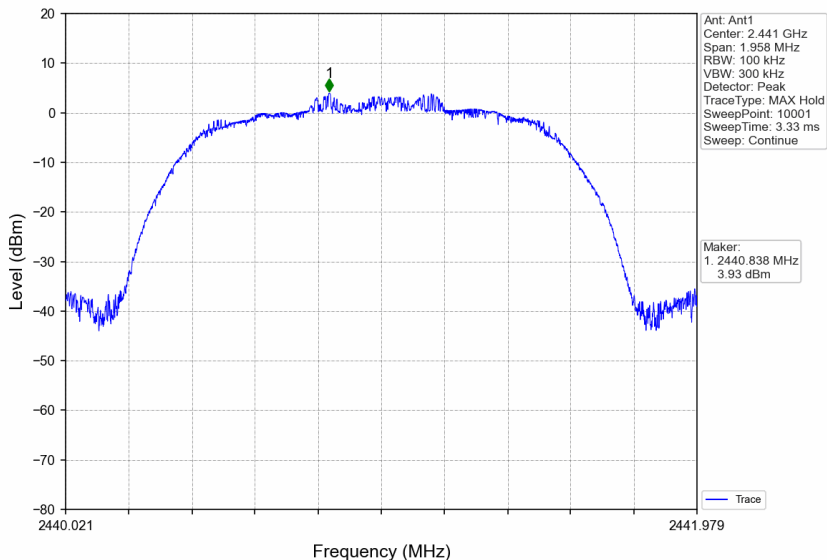
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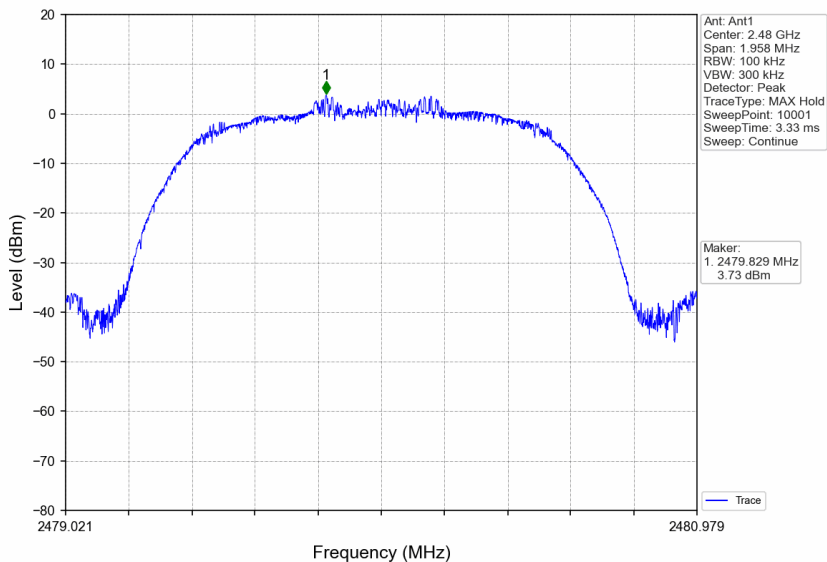
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



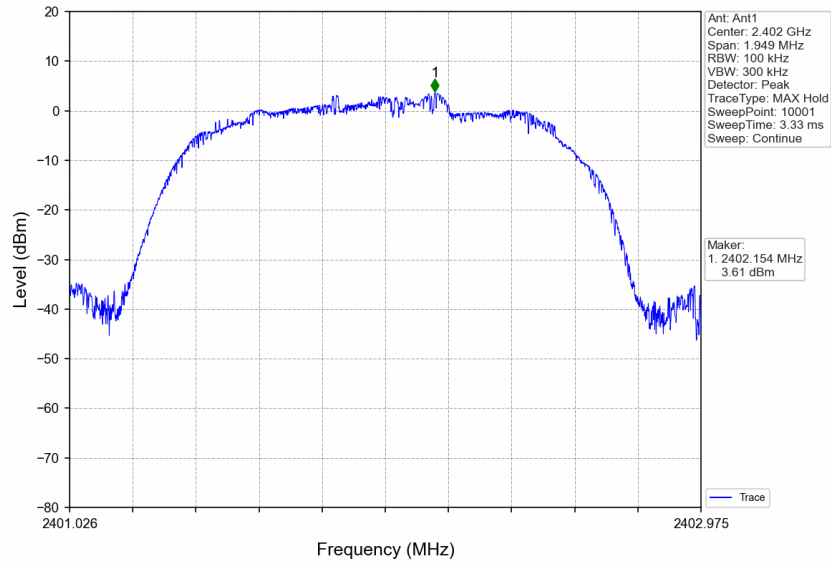
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



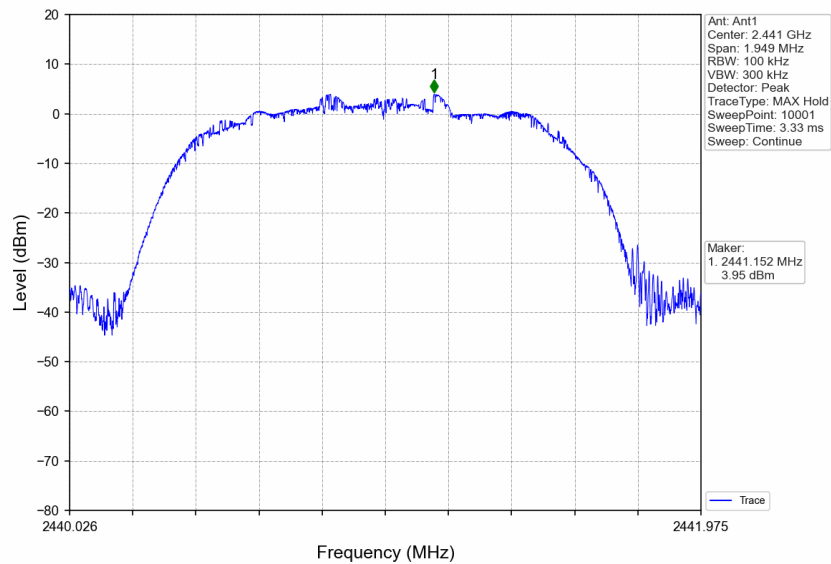
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



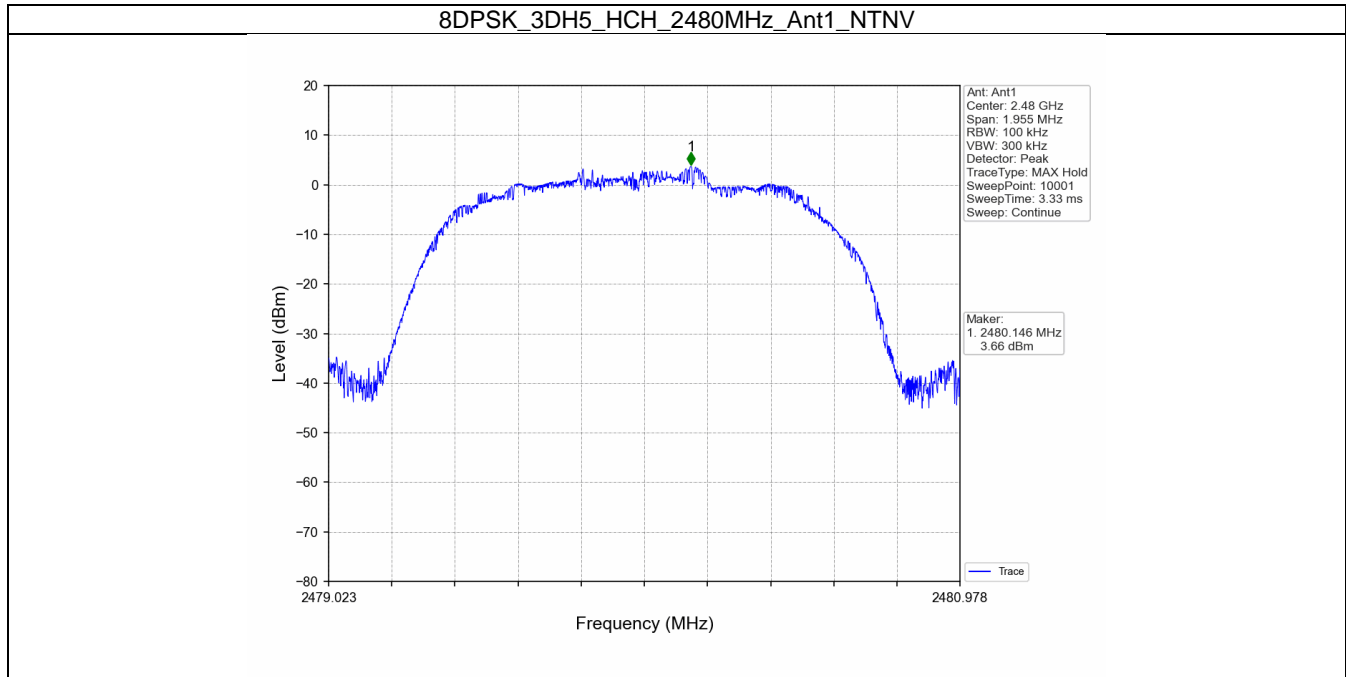
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6.2 CSE

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	3.61	-16.39	Pass
		2441	DH5	1	3.61	-16.39	Pass
		2480	DH5	1	3.61	-16.39	Pass
		HOPP	DH5	1	3.61	-16.39	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.93	-16.07	Pass
		2441	2DH5	1	3.93	-16.07	Pass
		2480	2DH5	1	3.93	-16.07	Pass
		HOPP	2DH5	1	3.93	-16.07	Pass
8DPSK	SISO	2402	3DH5	1	3.95	-16.05	Pass
		2441	3DH5	1	3.95	-16.05	Pass
		2480	3DH5	1	3.95	-16.05	Pass
		HOPP	3DH5	1	3.95	-16.05	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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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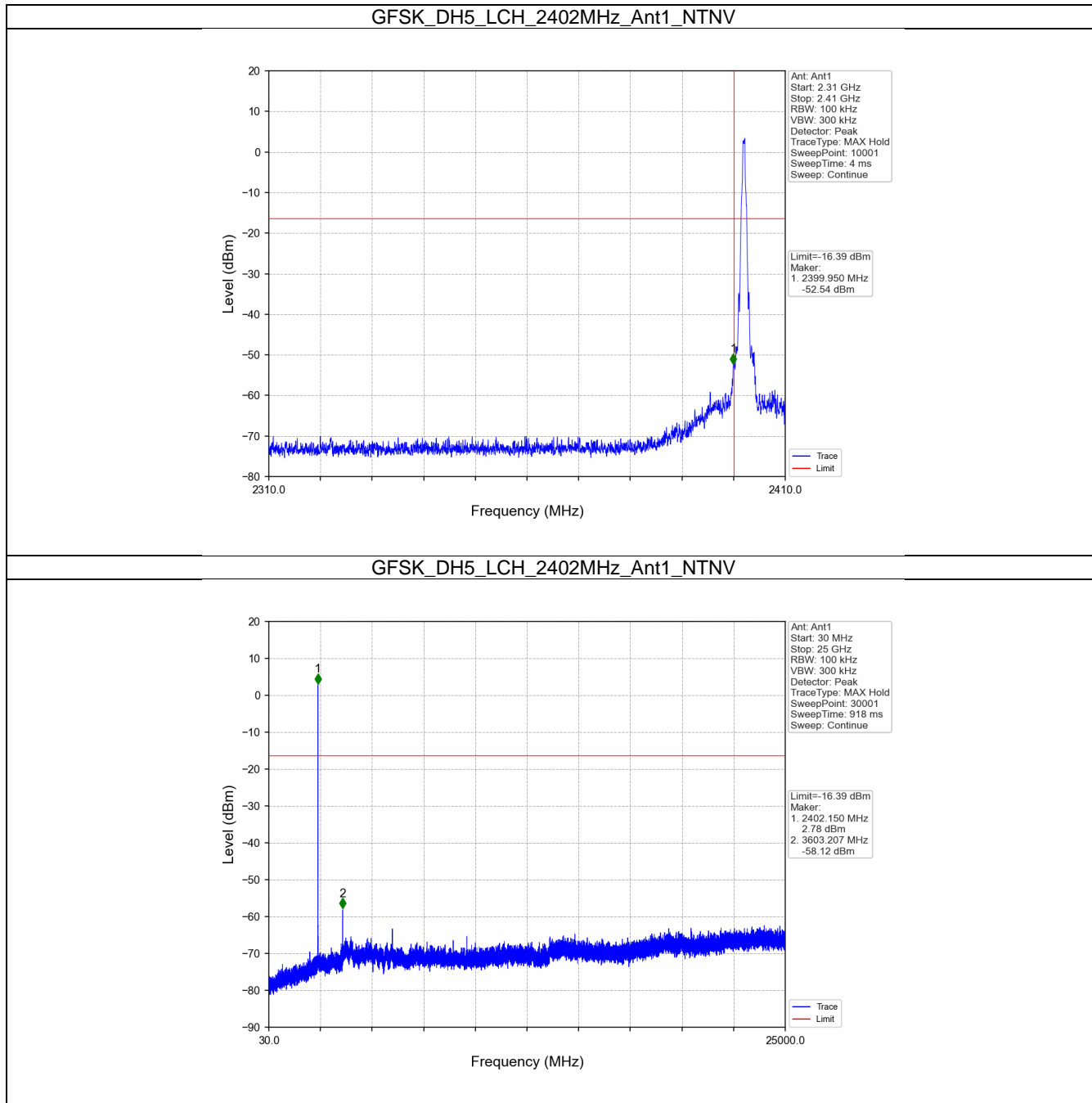
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6.2.2 Test Graph

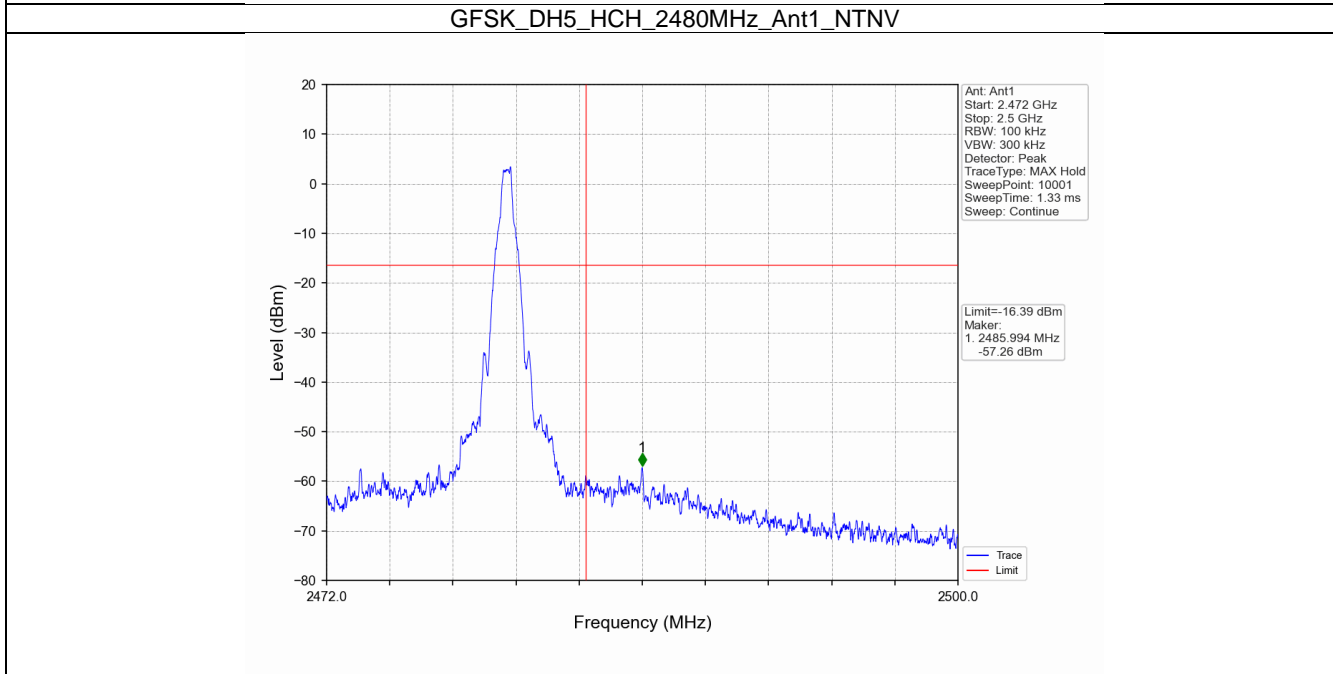
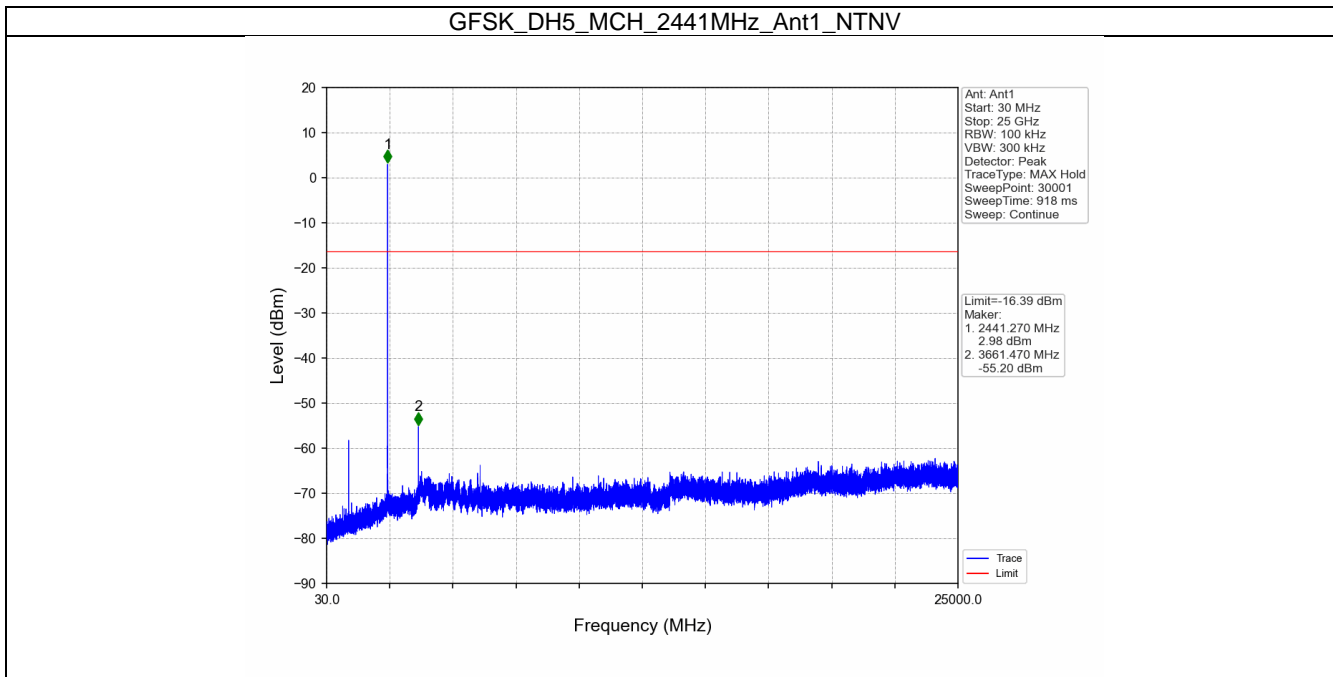


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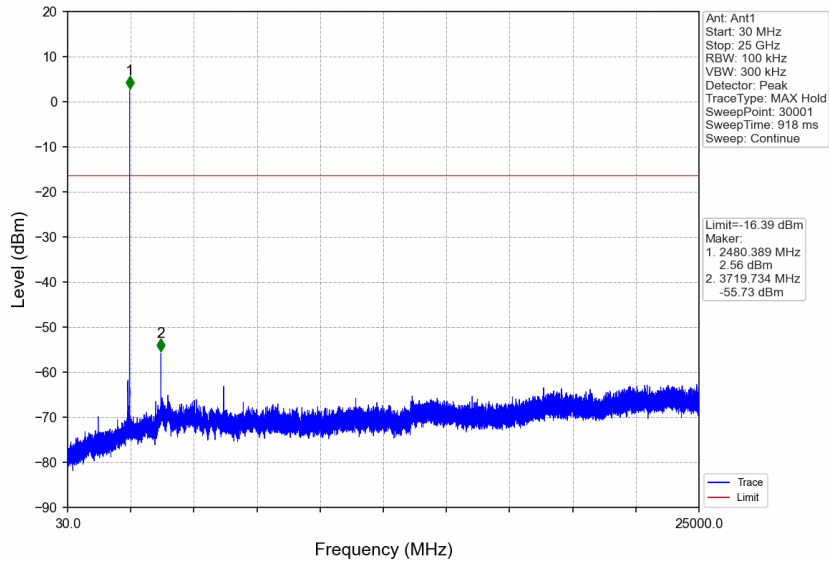
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 EMC Laboratory

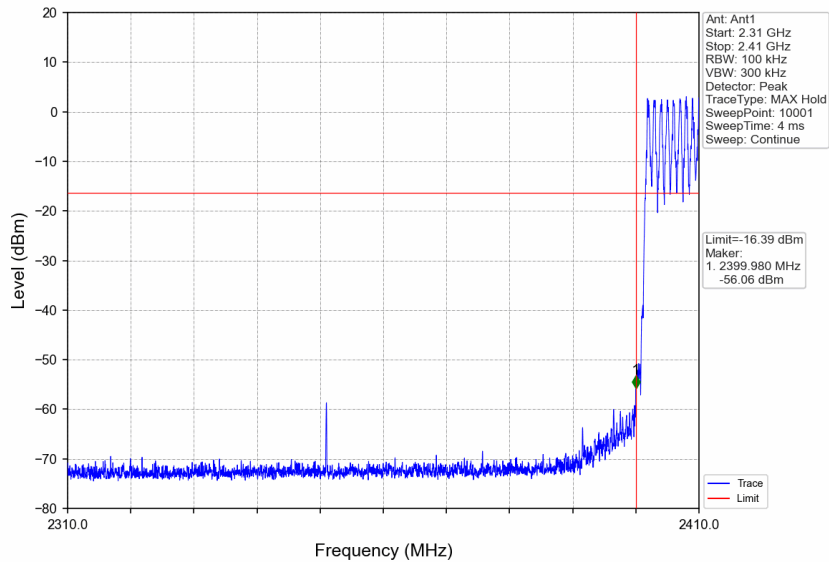
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

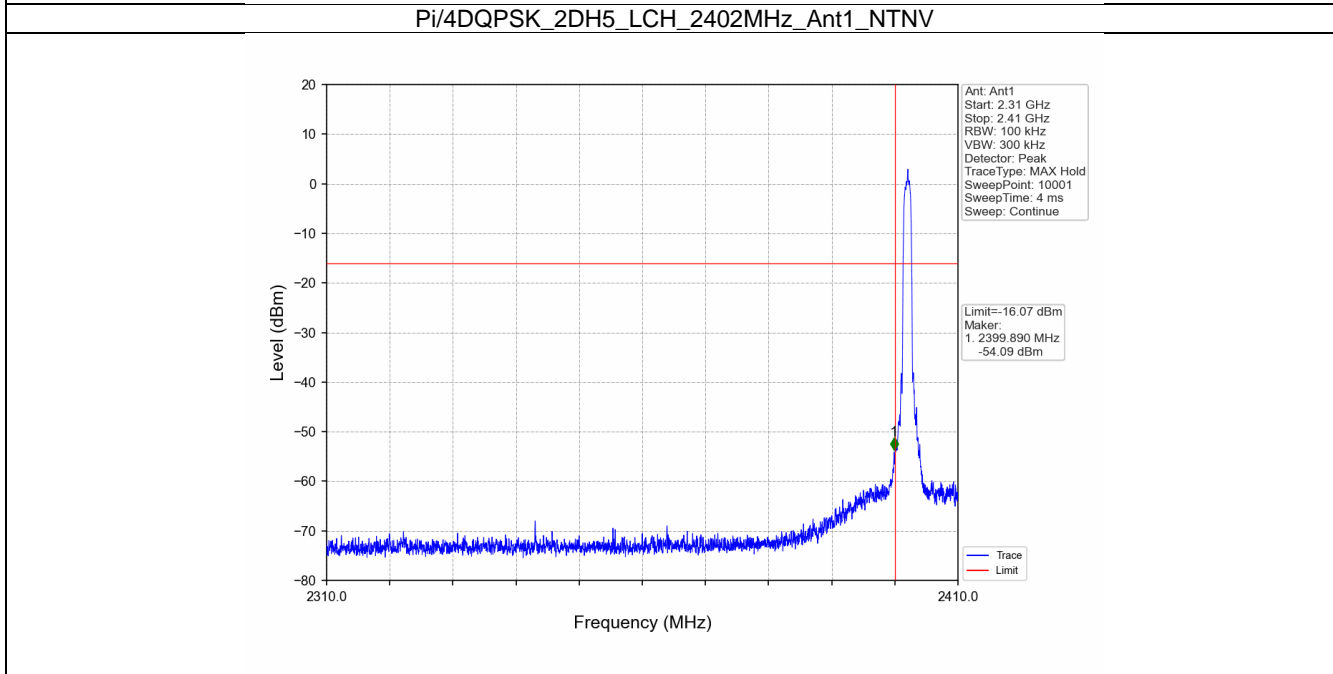
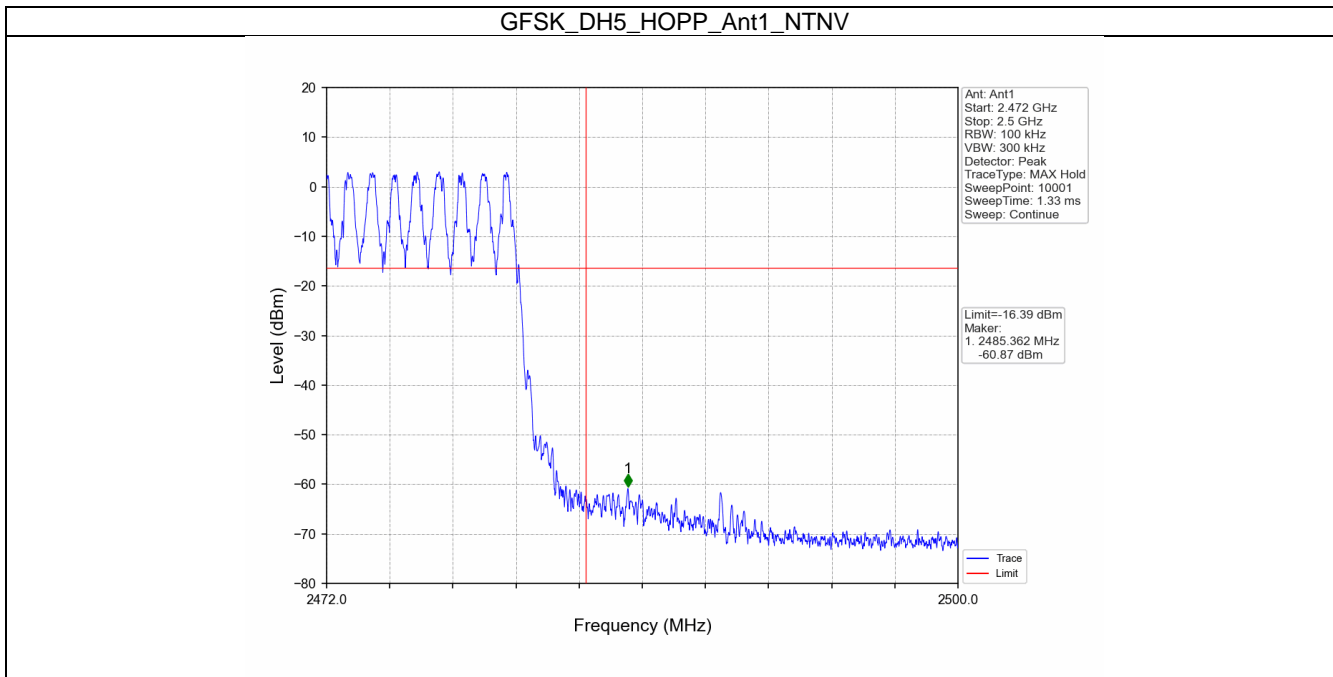


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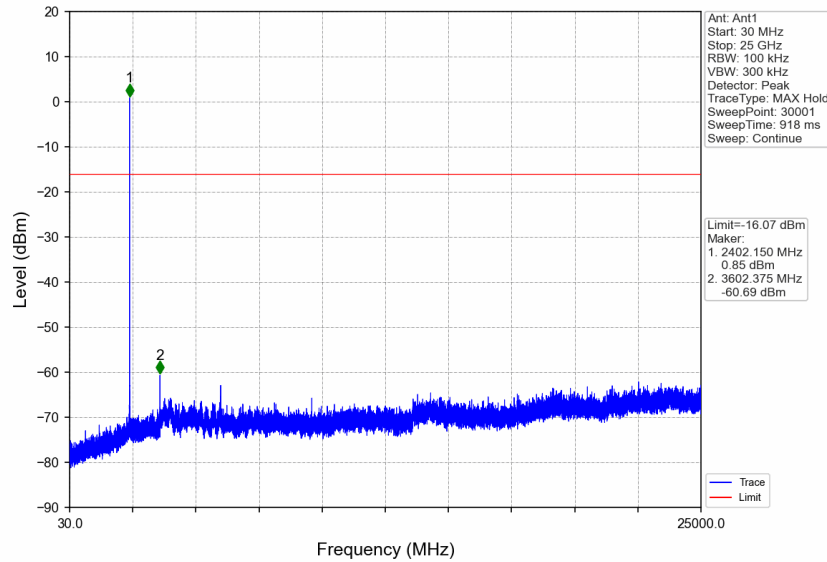
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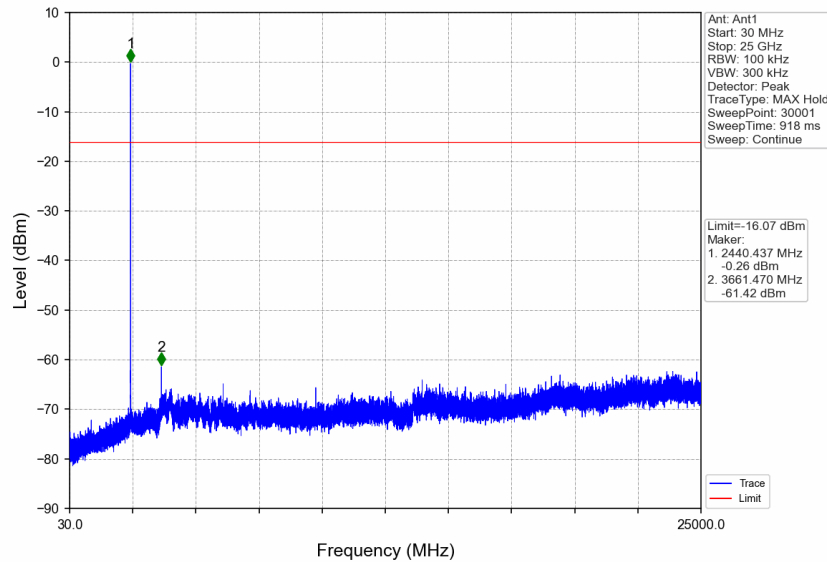
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



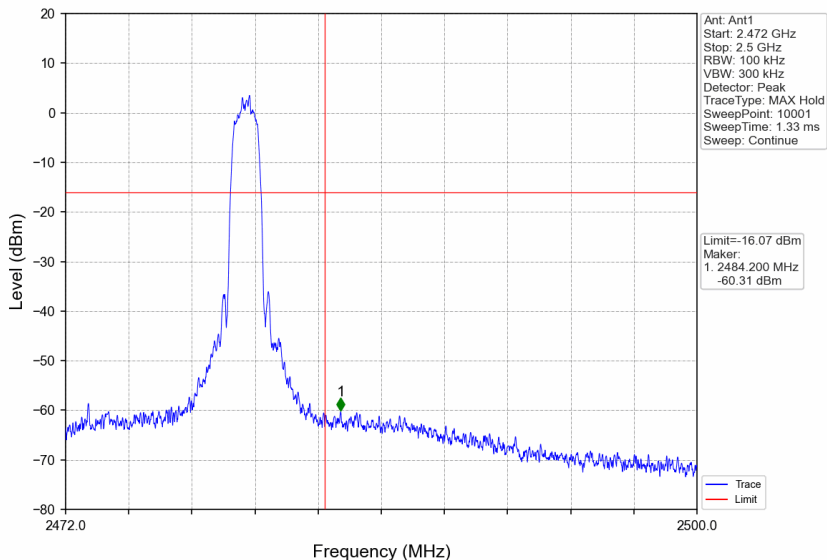
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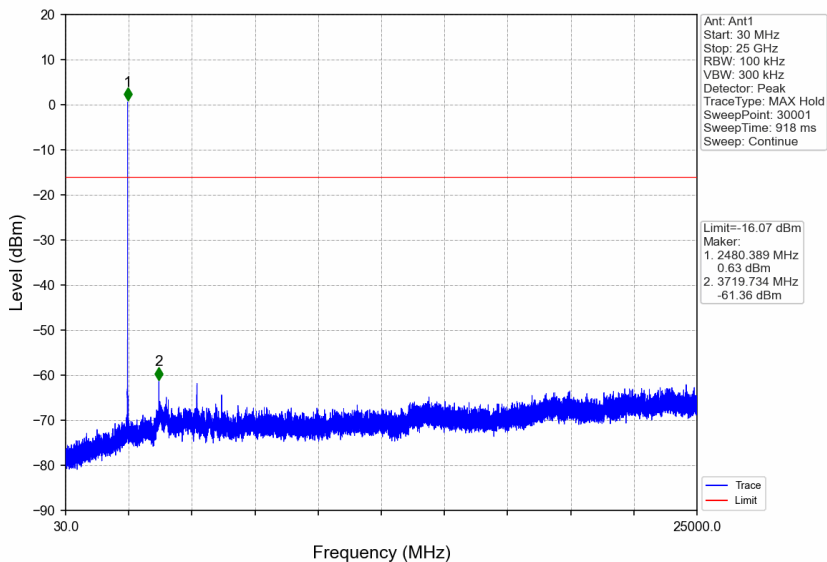
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

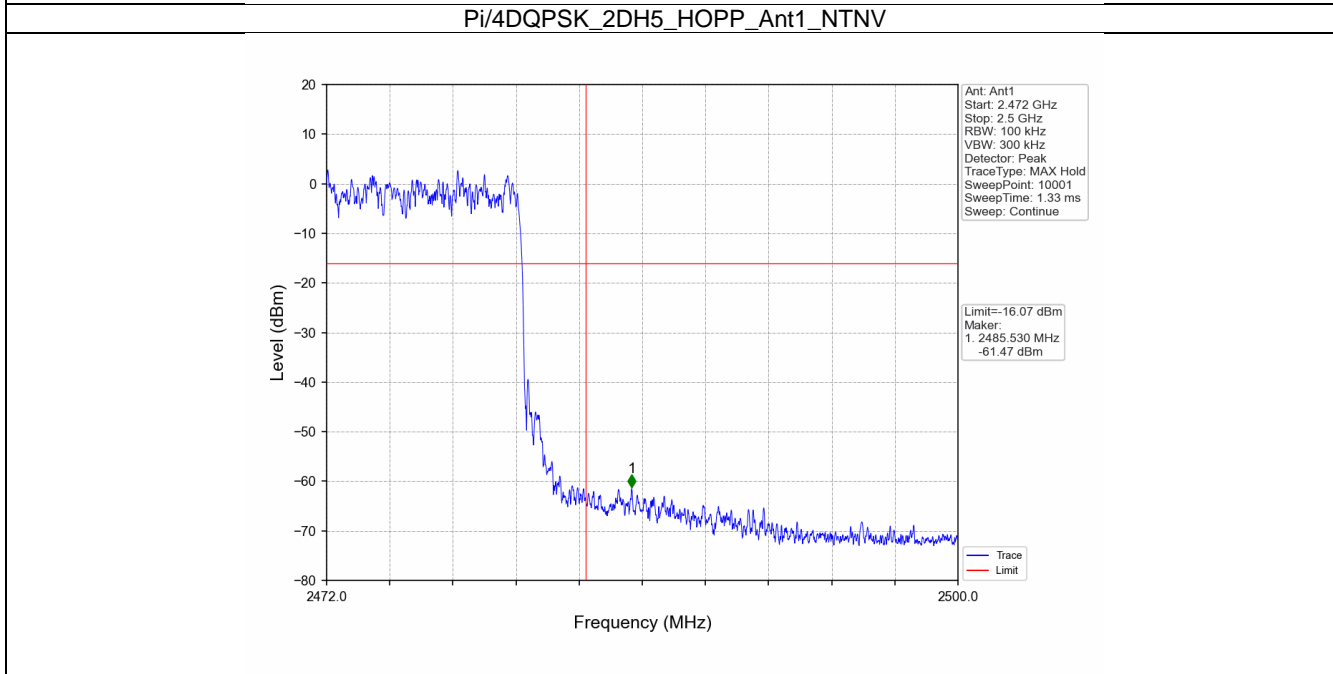
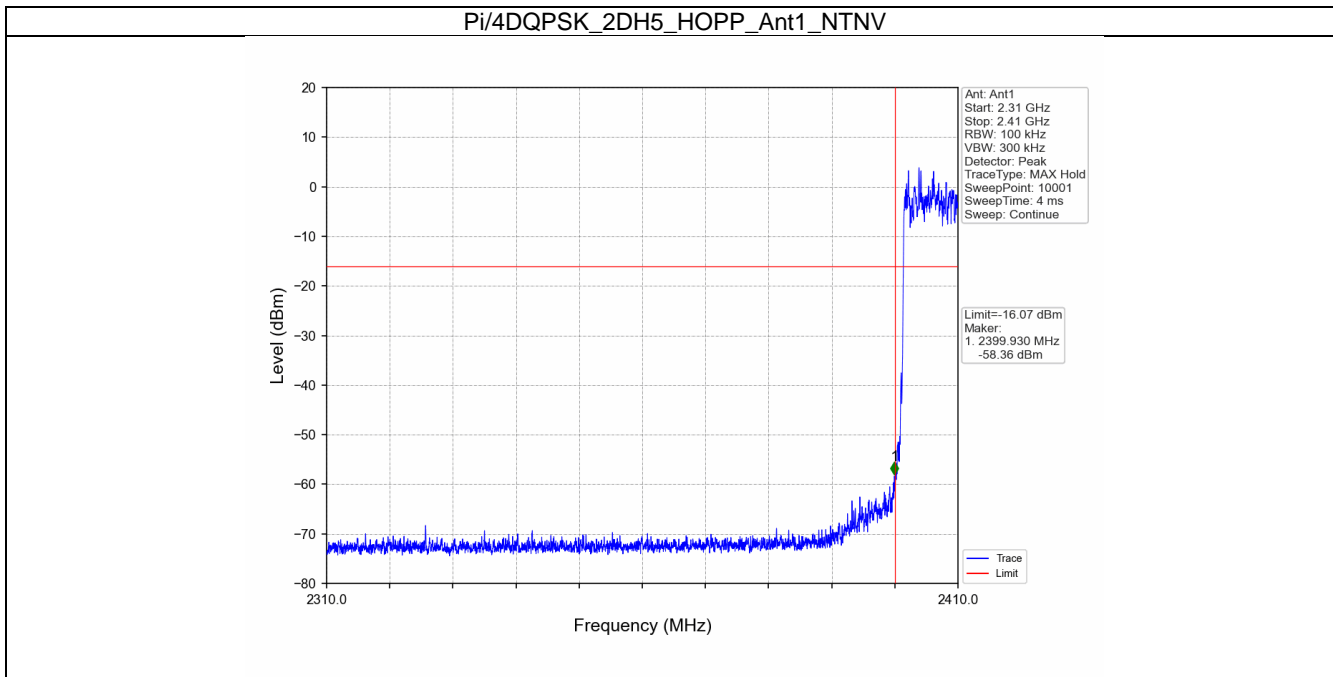


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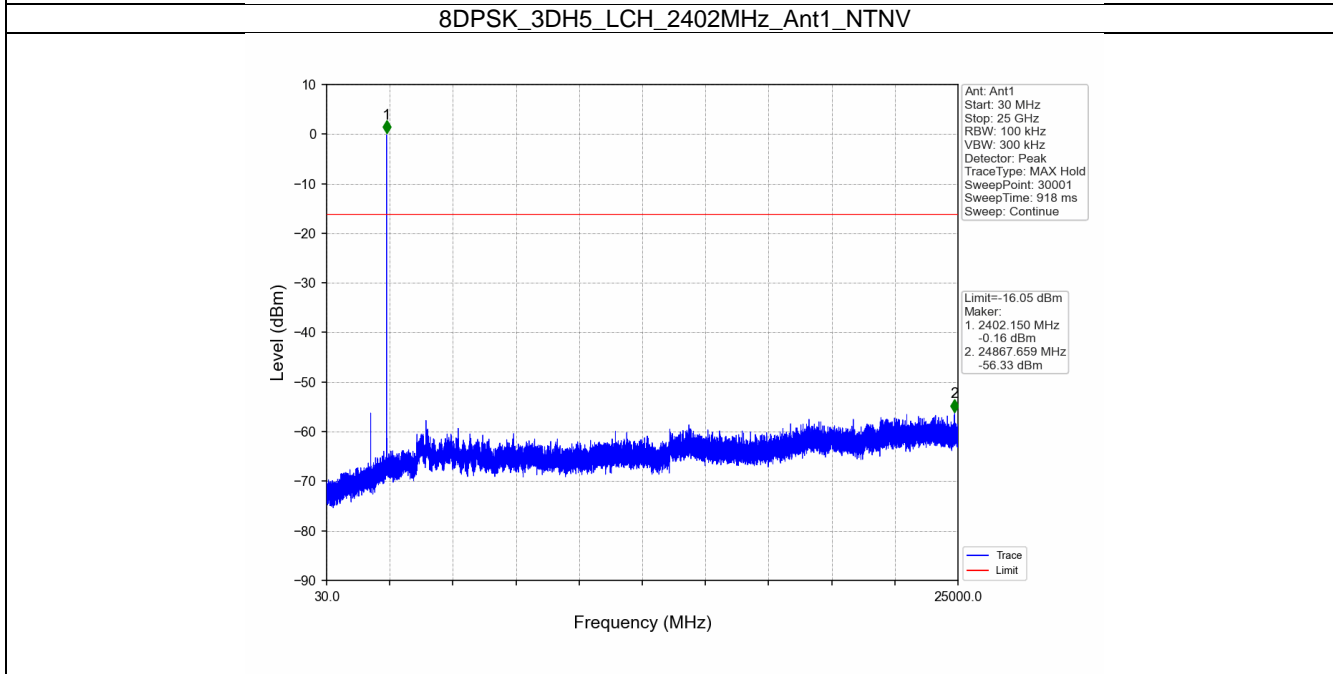
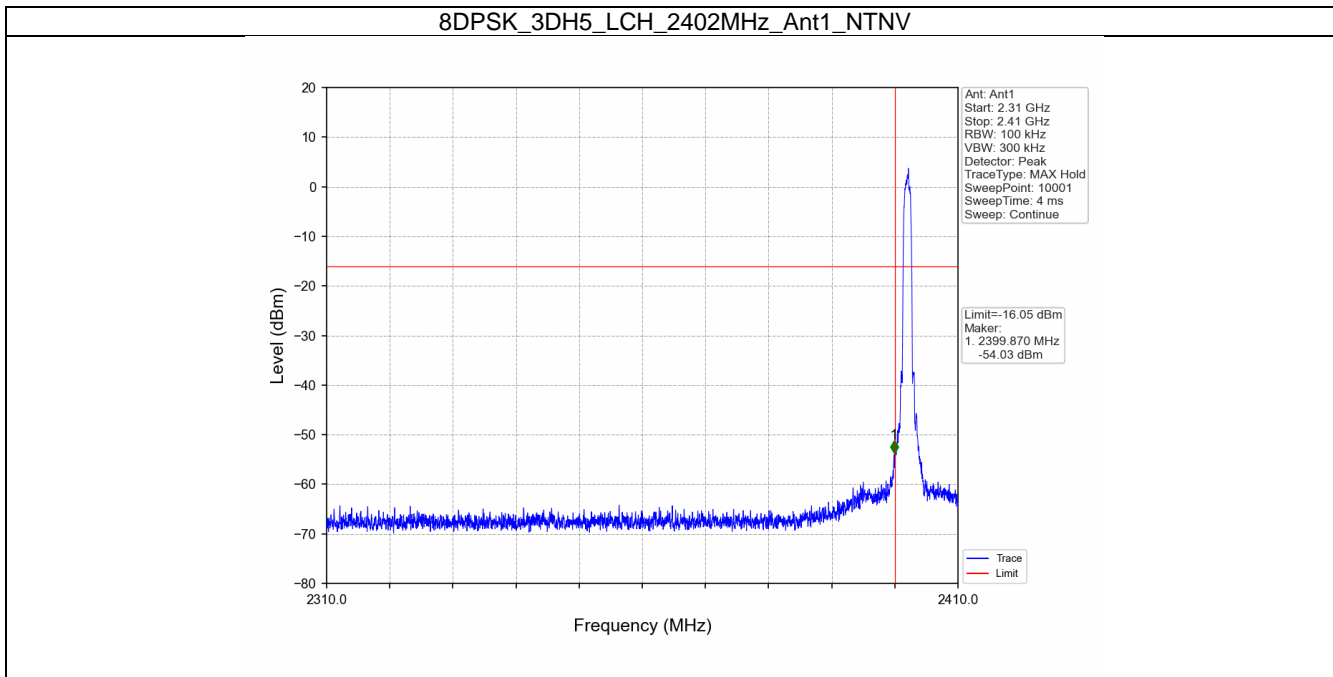
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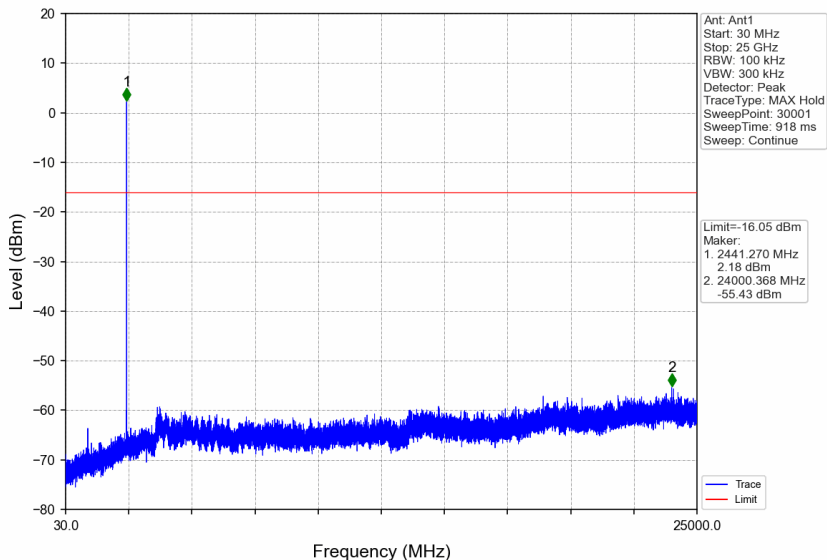
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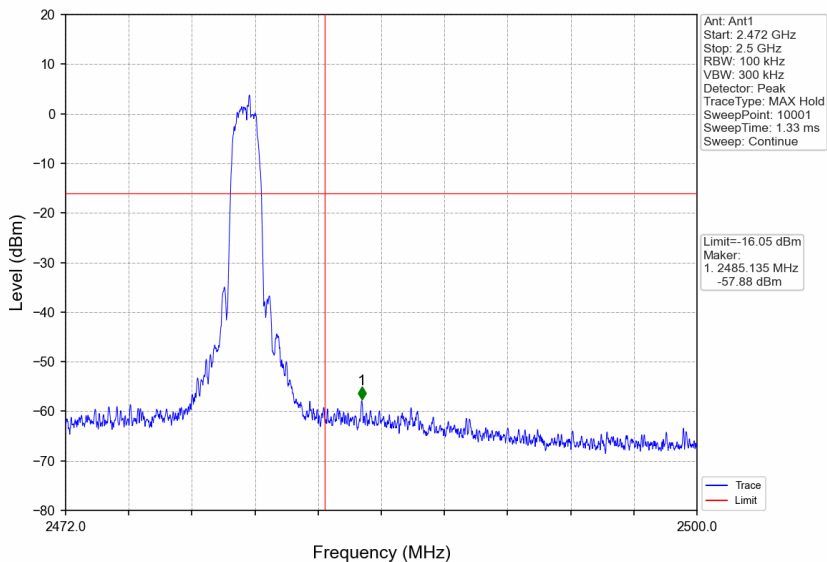
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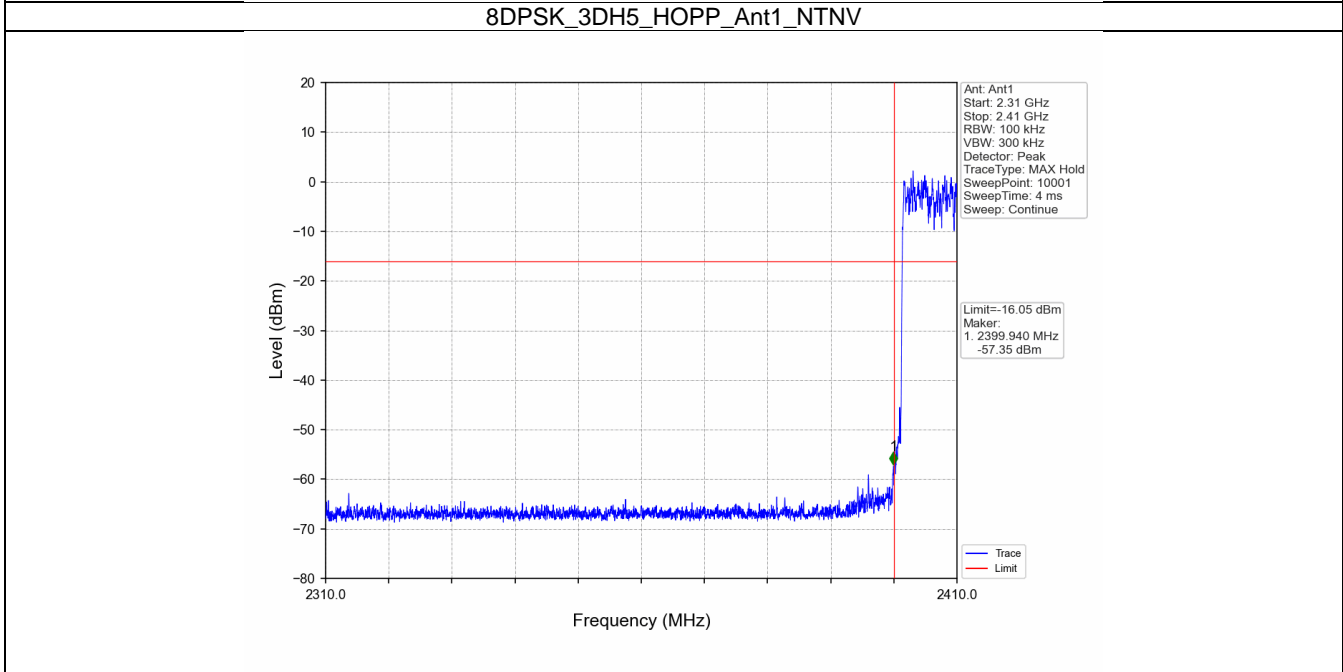
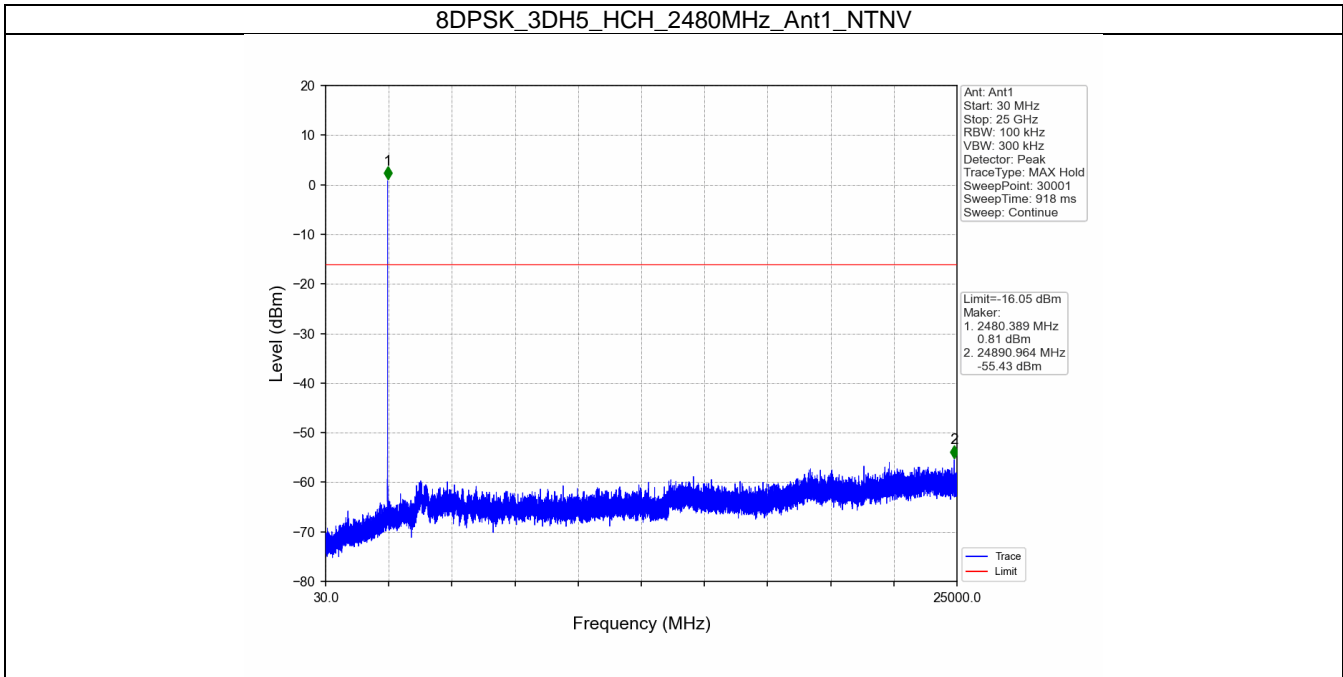


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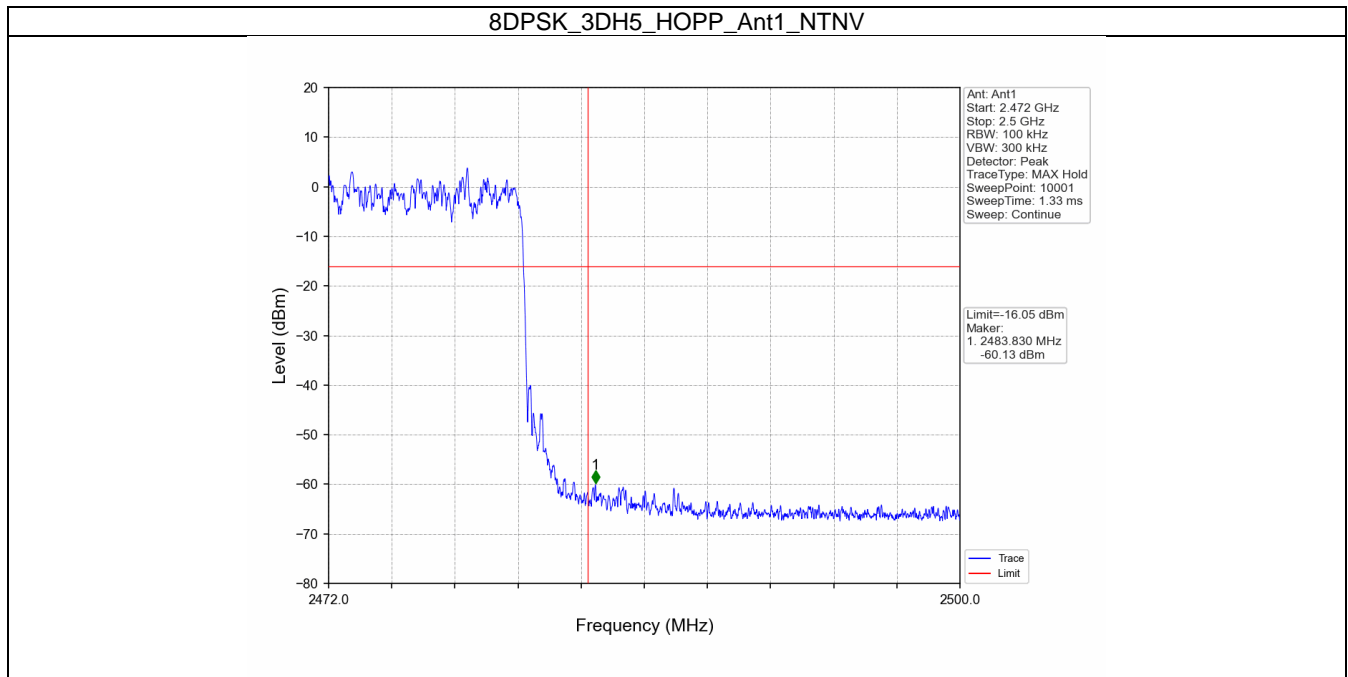
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