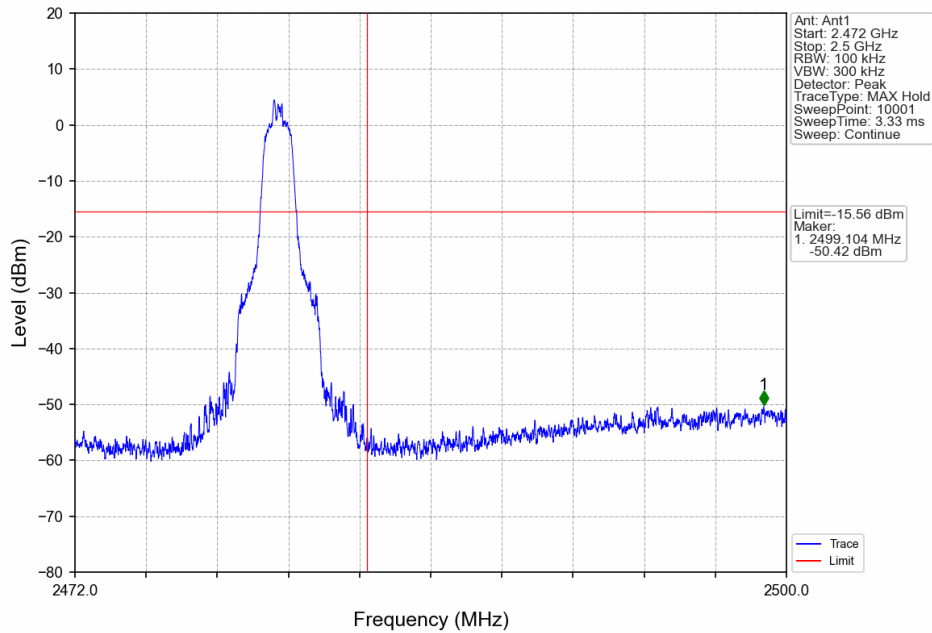
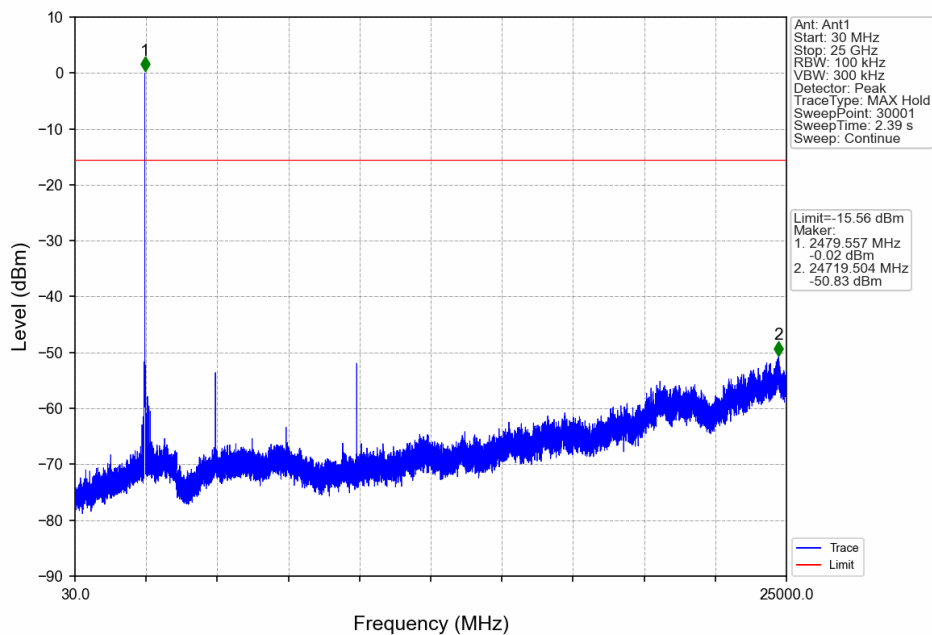


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



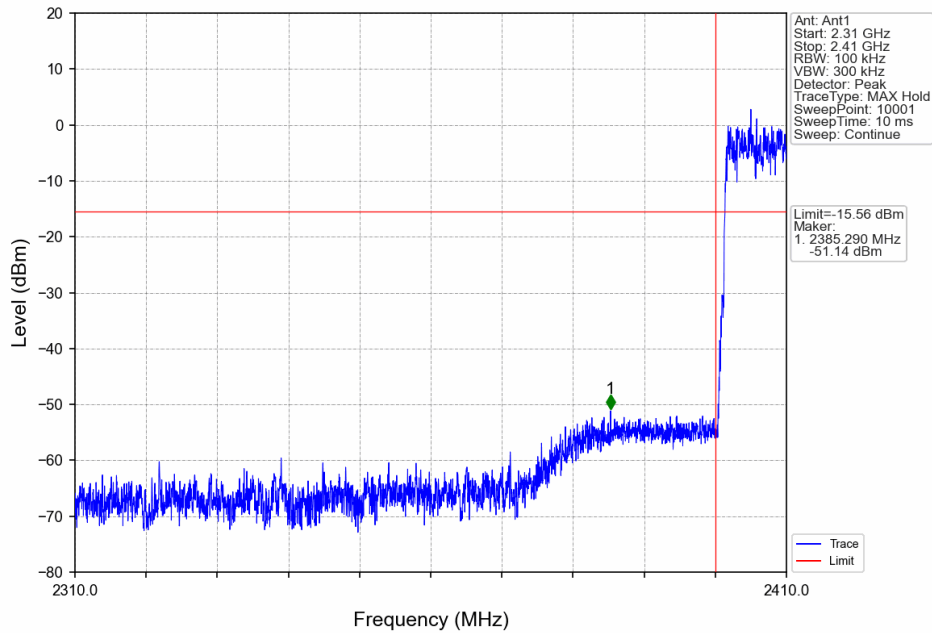
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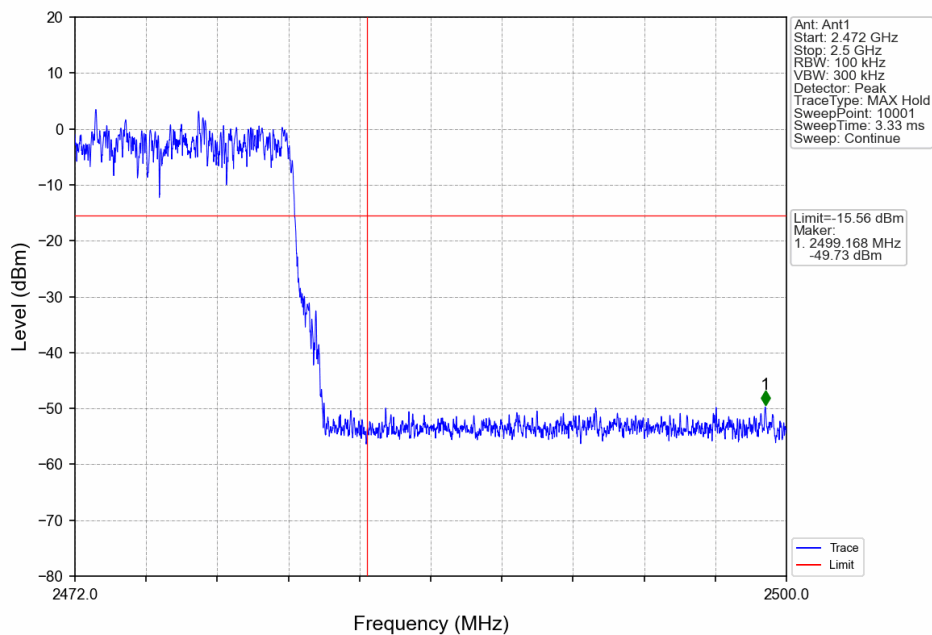
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



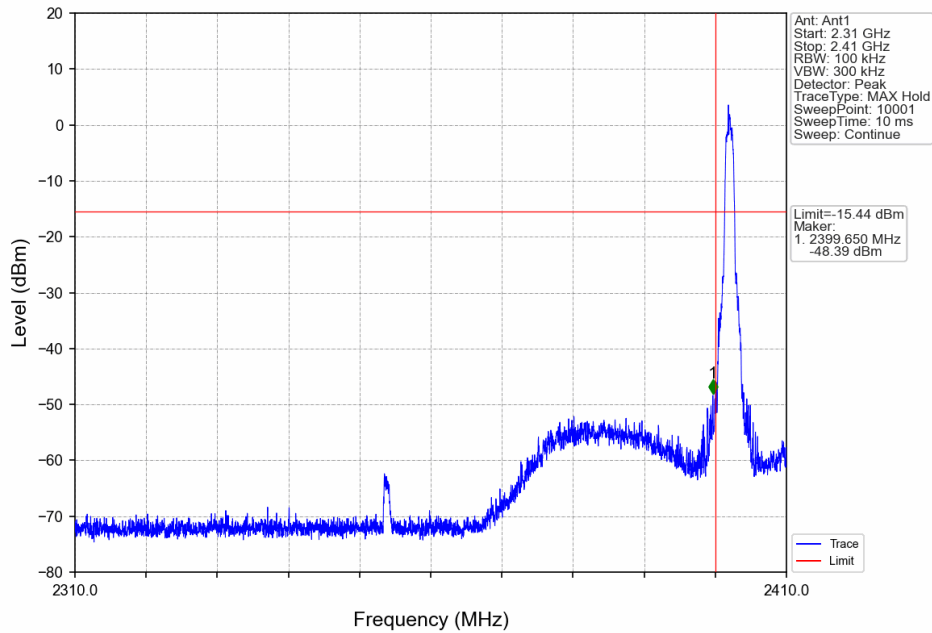
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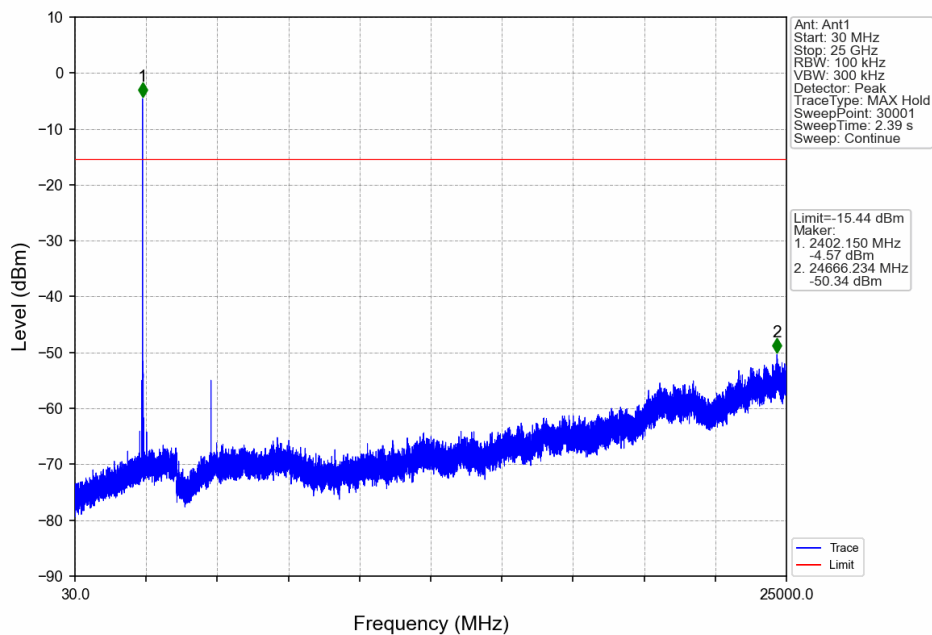
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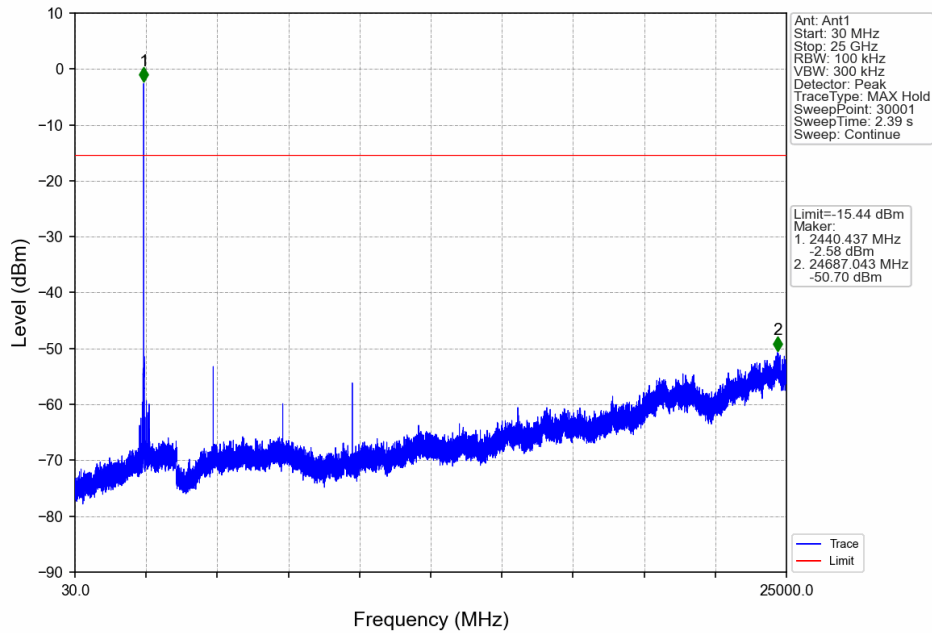
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



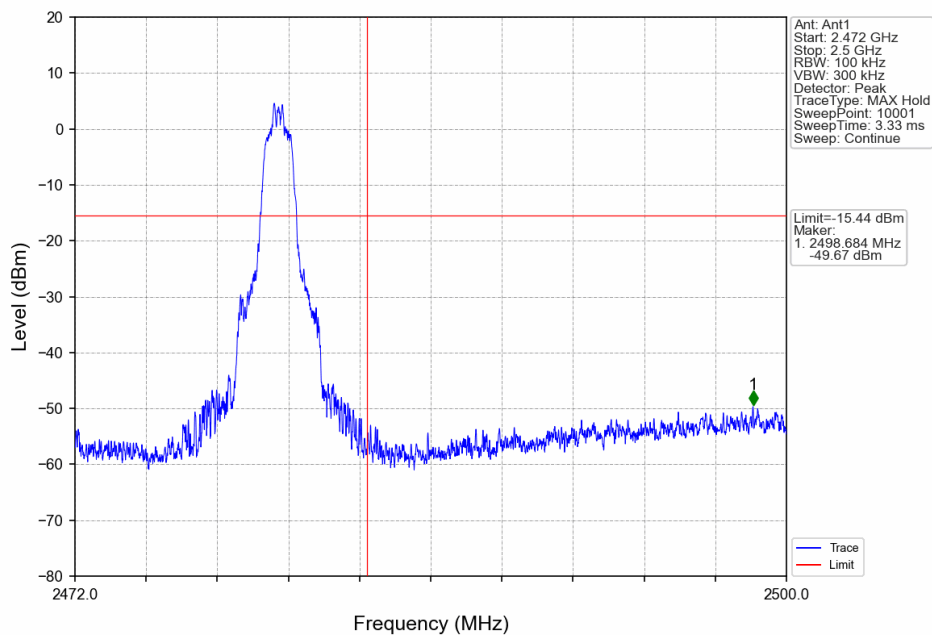
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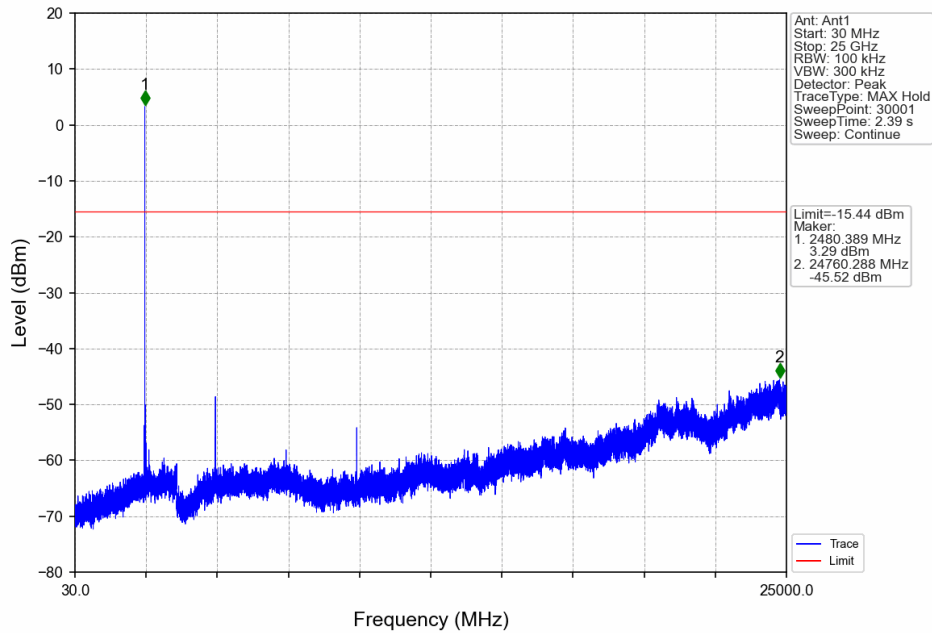
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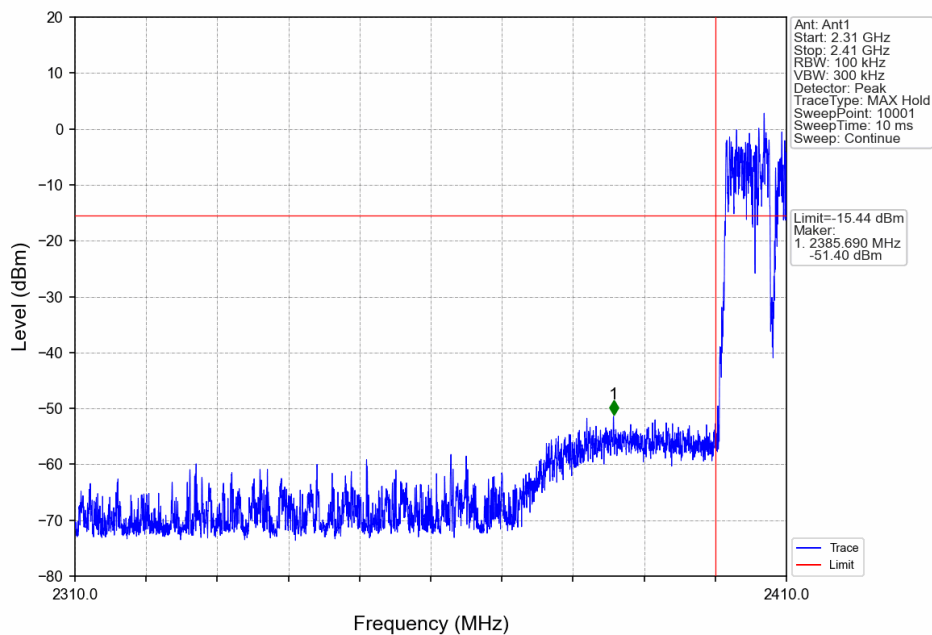
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



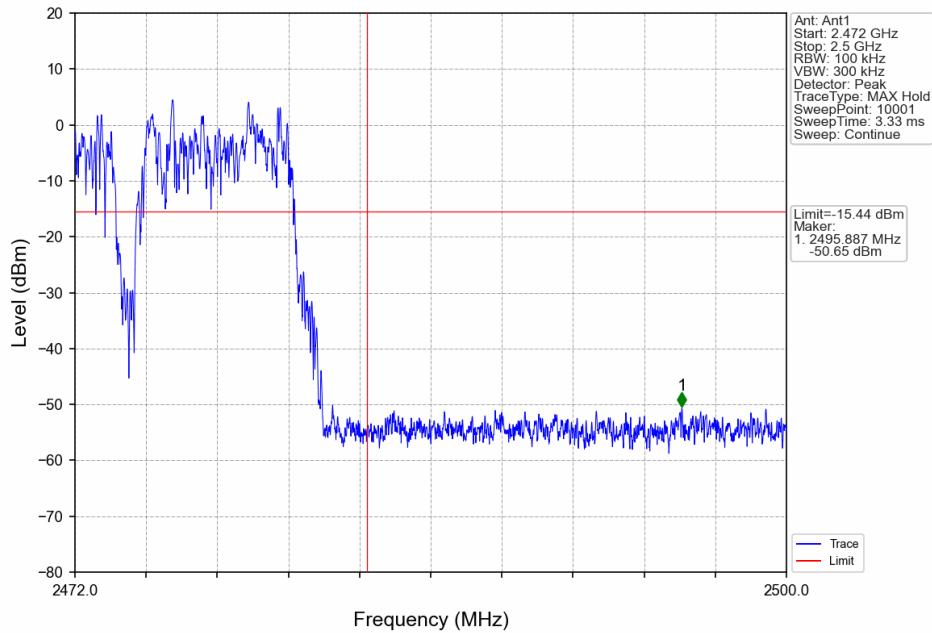
8DPSK_3DH5_HOPP_Ant1_NTNV



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8DPSK_3DH5_HOPP_Ant1_NTNV



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For Modular 1: Speaker

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	0.824	Pass
		2441	DH5	1	0.823	Pass
		2480	DH5	1	0.822	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.169	Pass
		2441	2DH5	1	1.166	Pass
		2480	2DH5	1	1.168	Pass
8DPSK	SISO	2402	3DH5	1	1.180	Pass
		2441	3DH5	1	1.178	Pass
		2480	3DH5	1	1.179	Pass

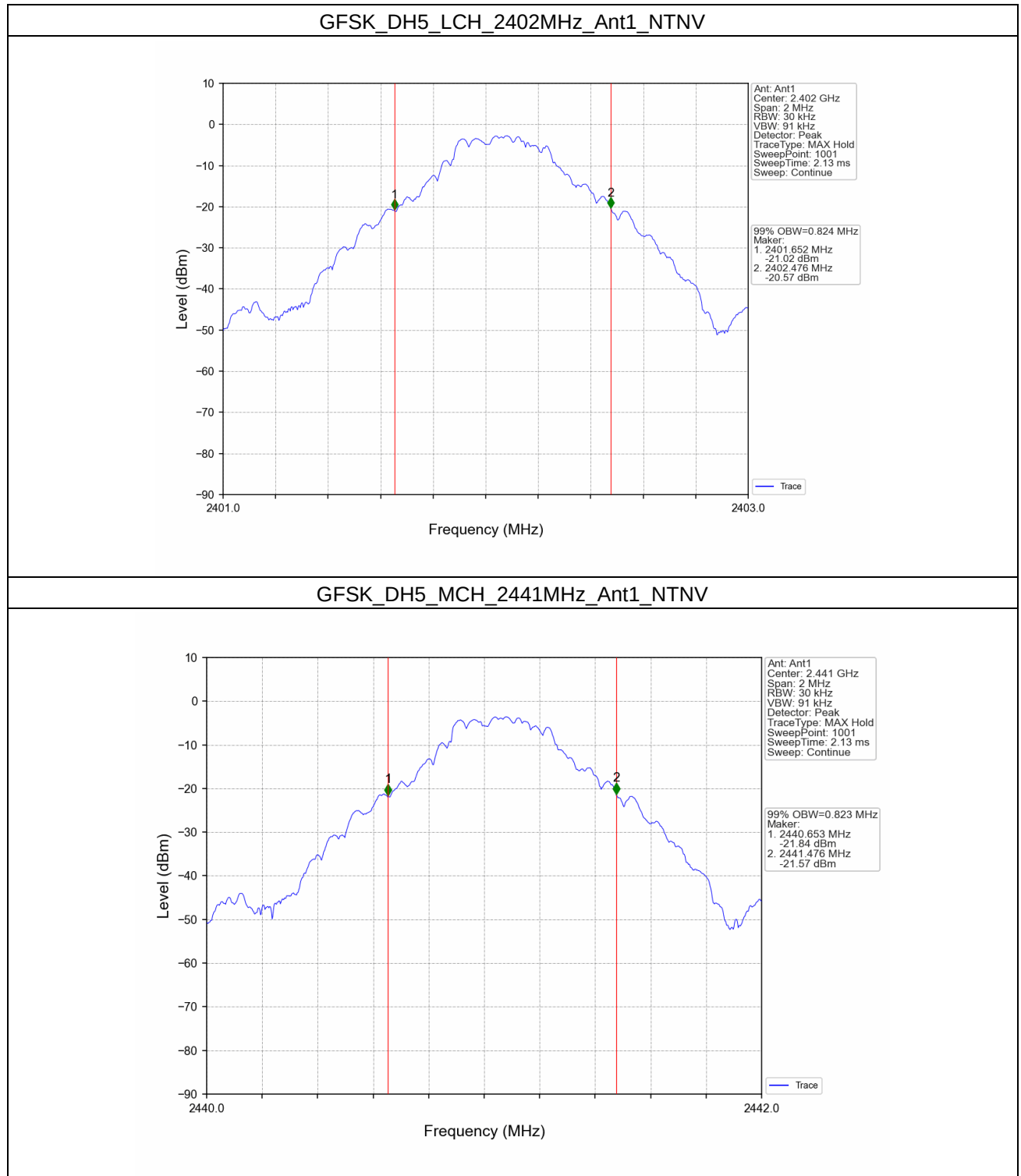


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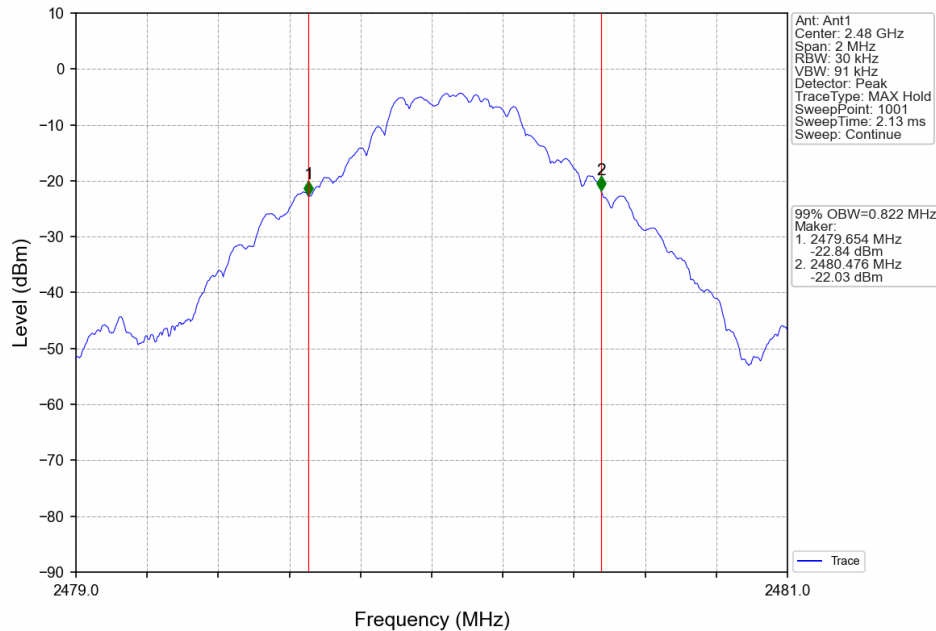
1.1.2 Test Graph



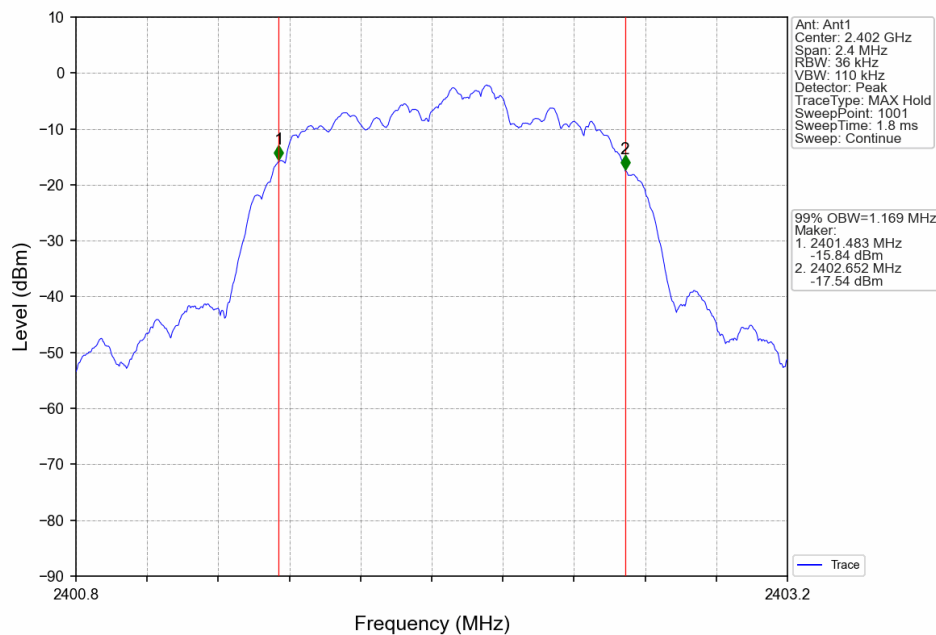
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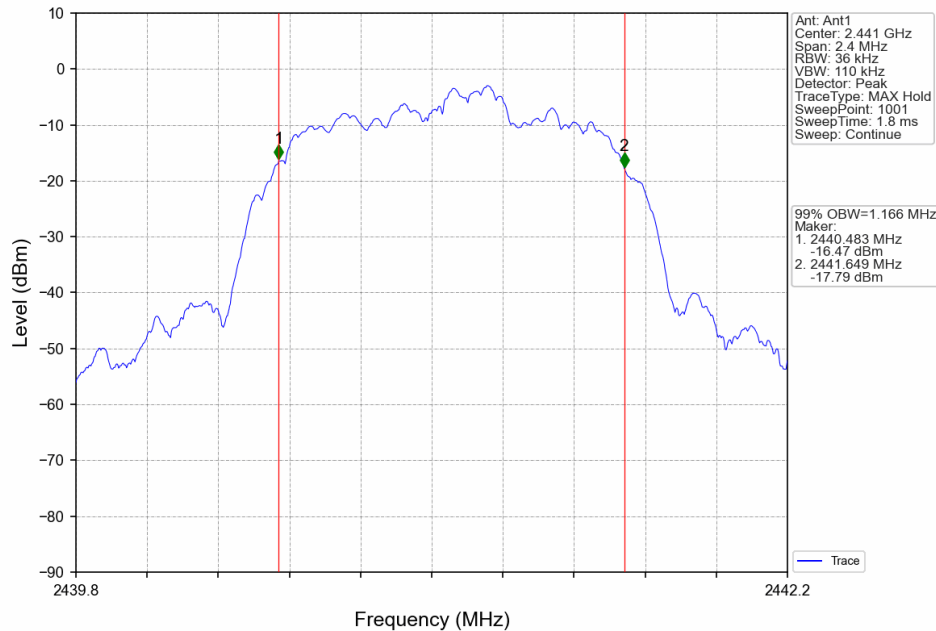
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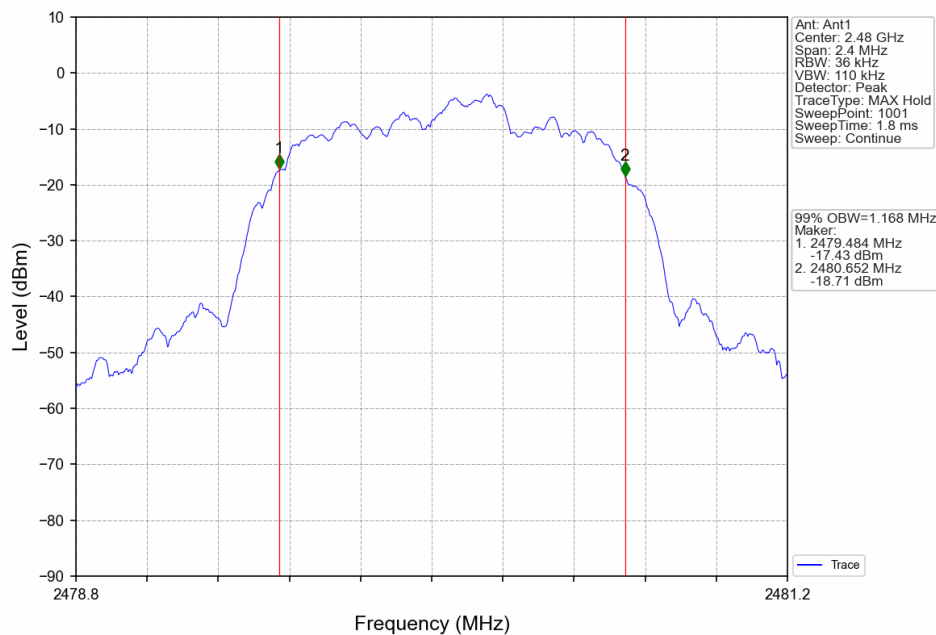
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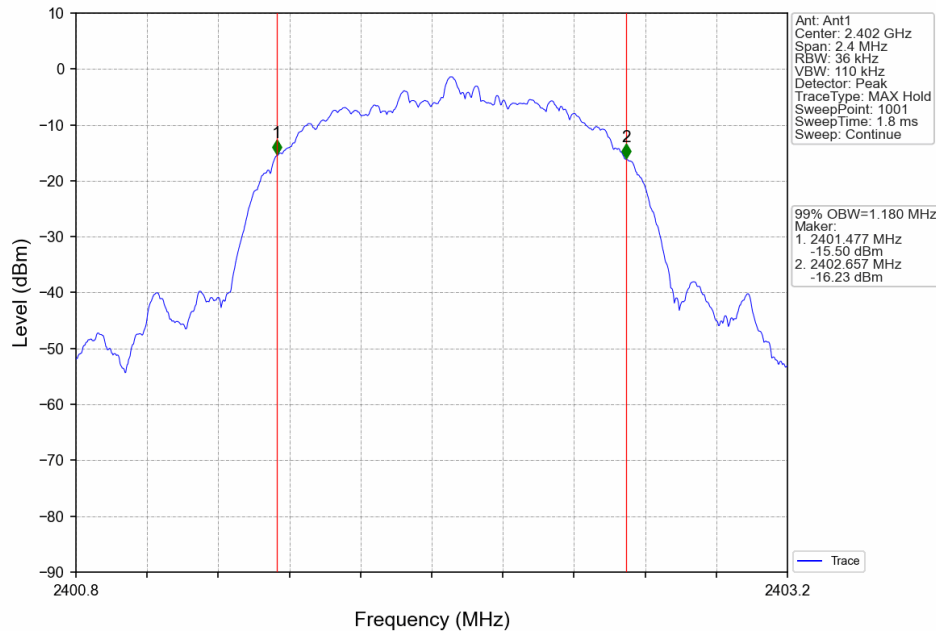
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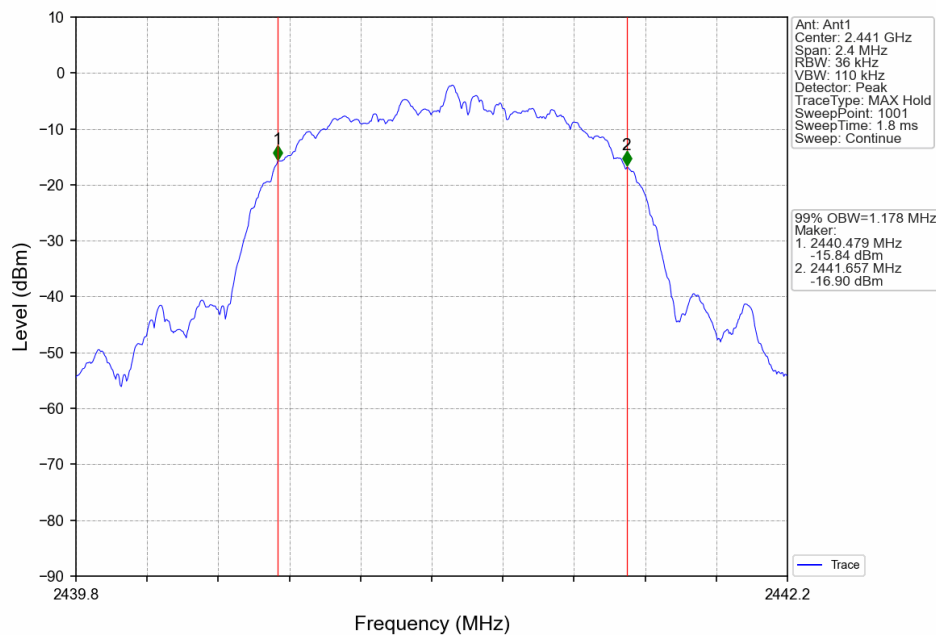
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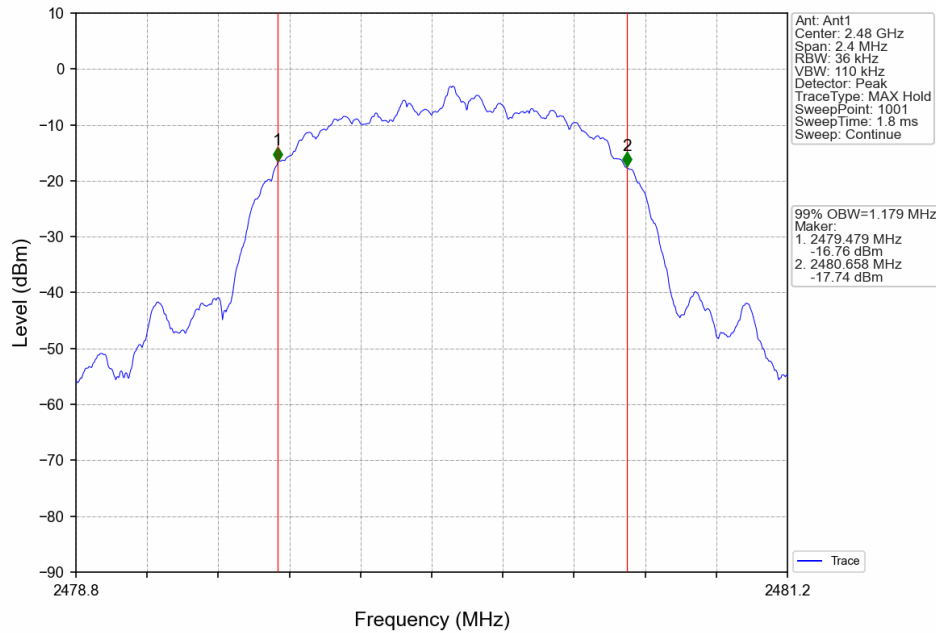
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.949	Pass
		2441	DH5	1	0.952	Pass
		2480	DH5	1	0.950	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.325	Pass
		2441	2DH5	1	1.319	Pass
		2480	2DH5	1	1.325	Pass
8DPSK	SISO	2402	3DH5	1	1.313	Pass
		2441	3DH5	1	1.309	Pass
		2480	3DH5	1	1.306	Pass

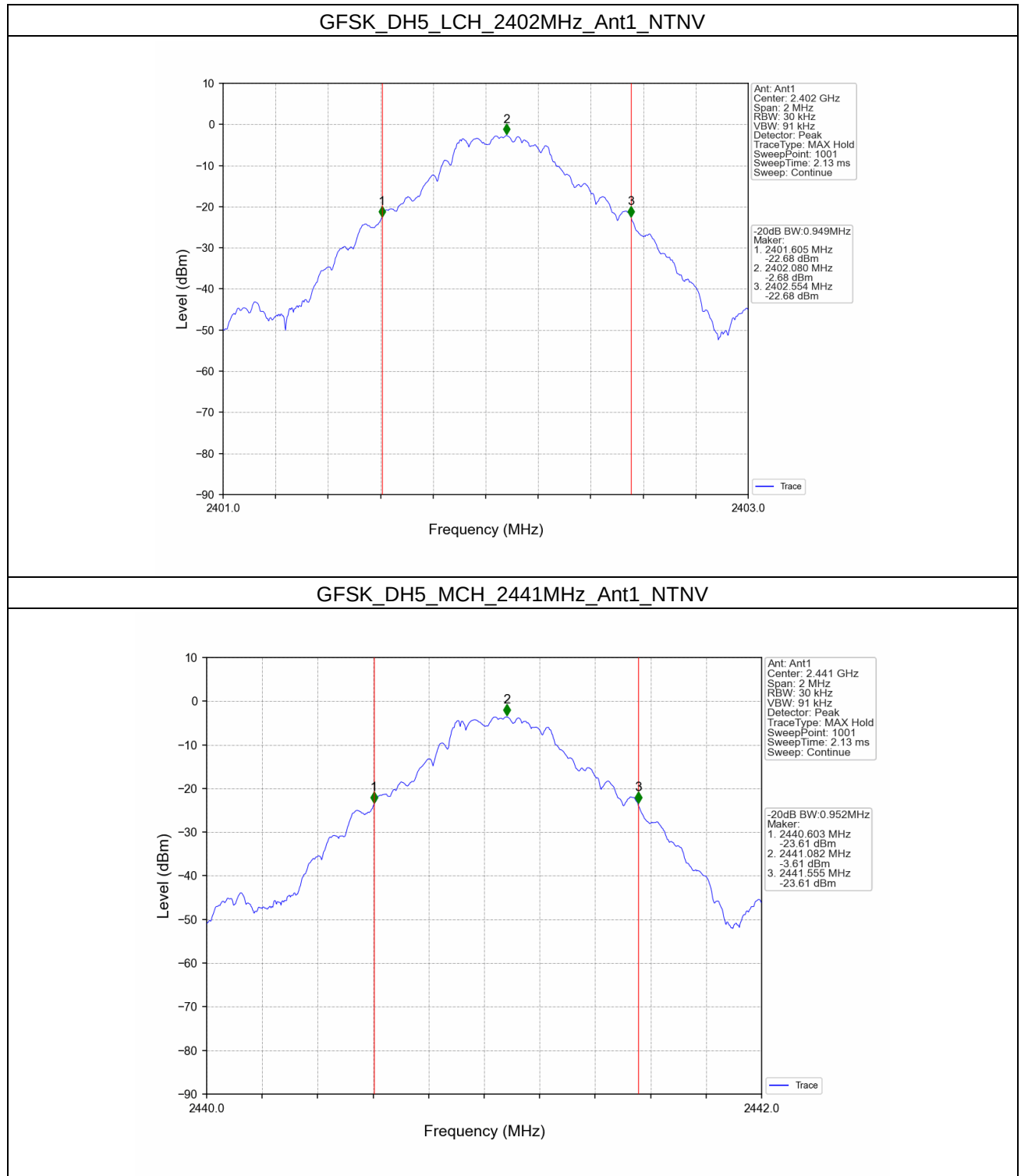


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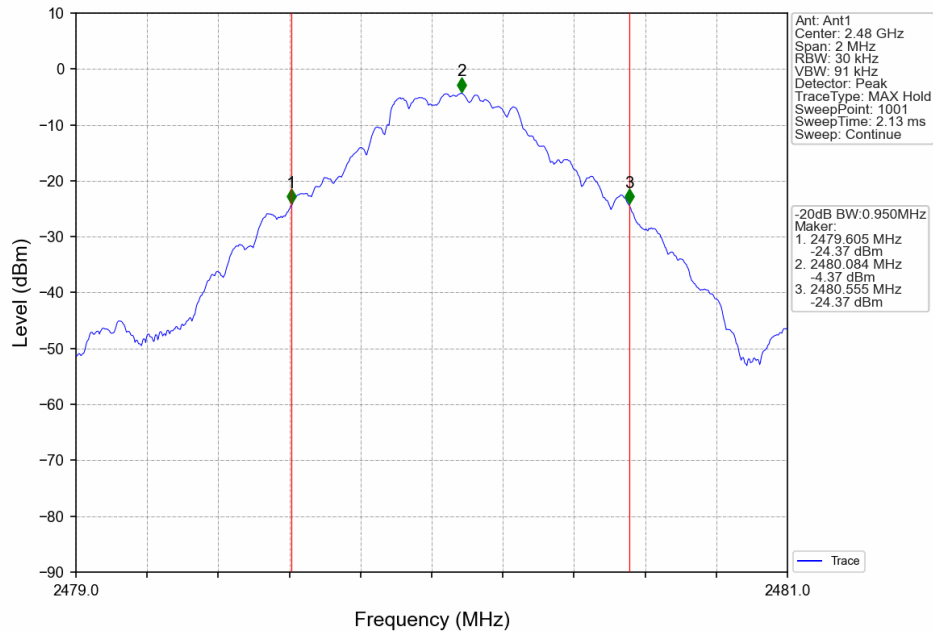
1.2.2 Test Graph



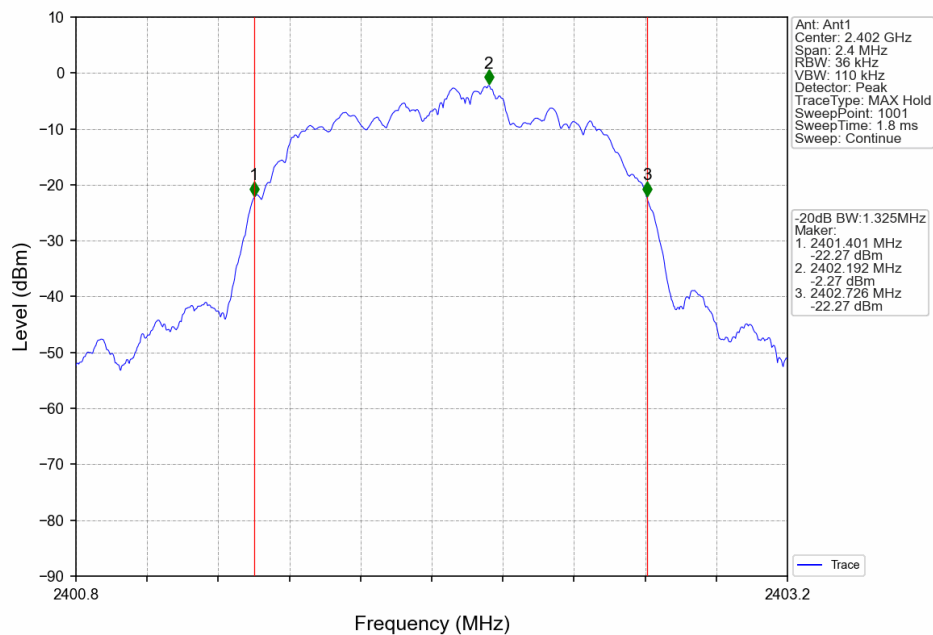
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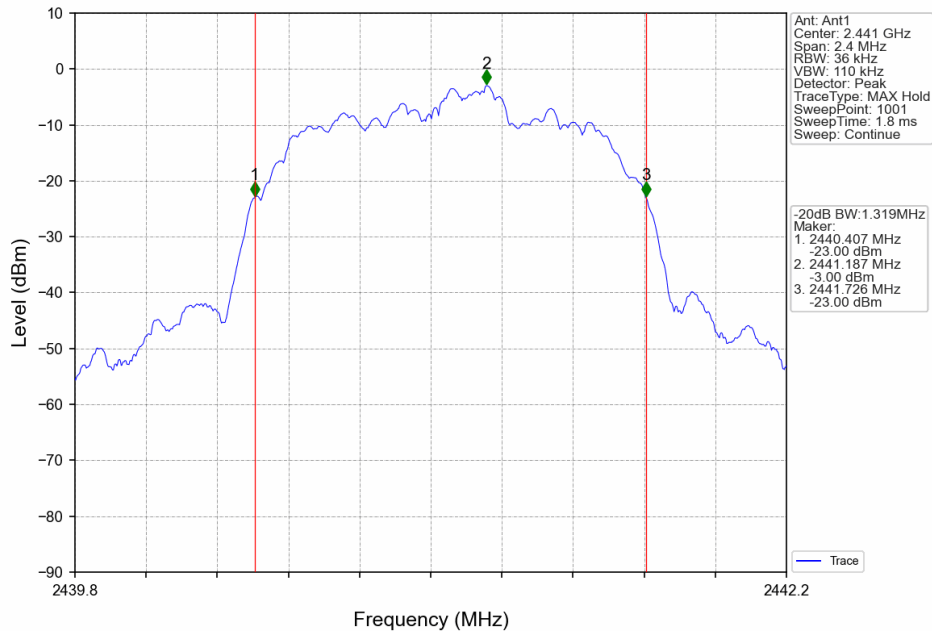
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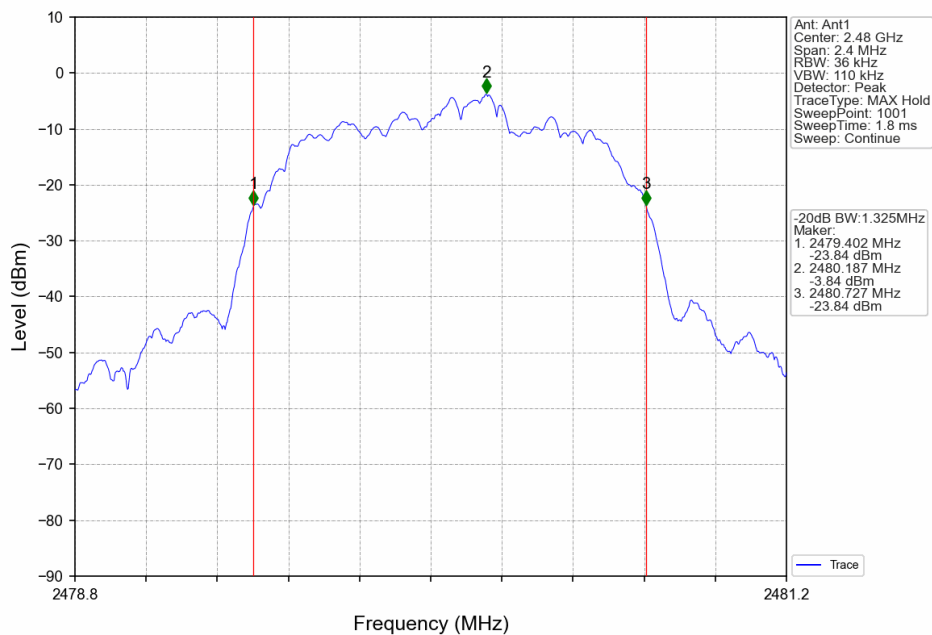
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



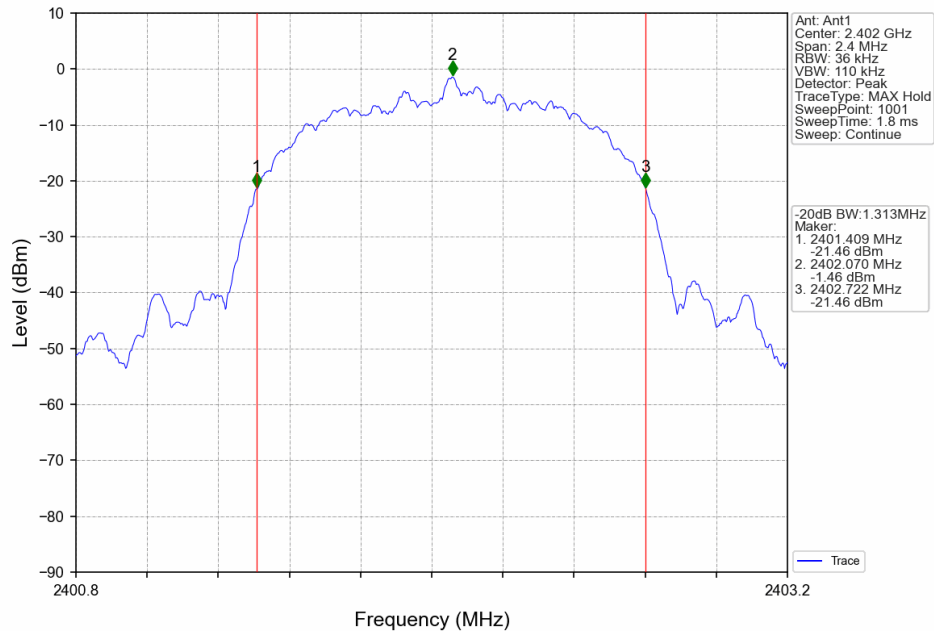
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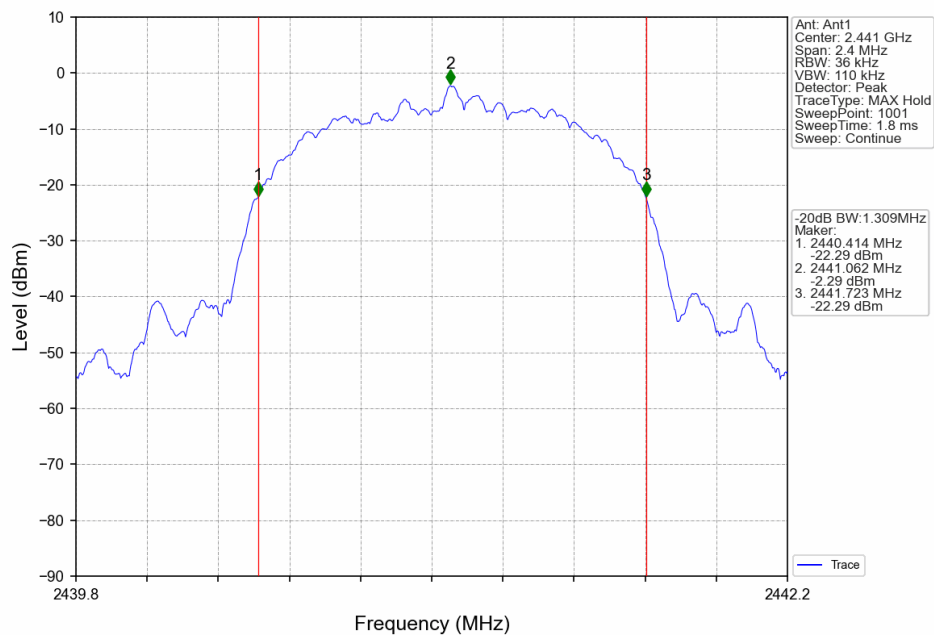
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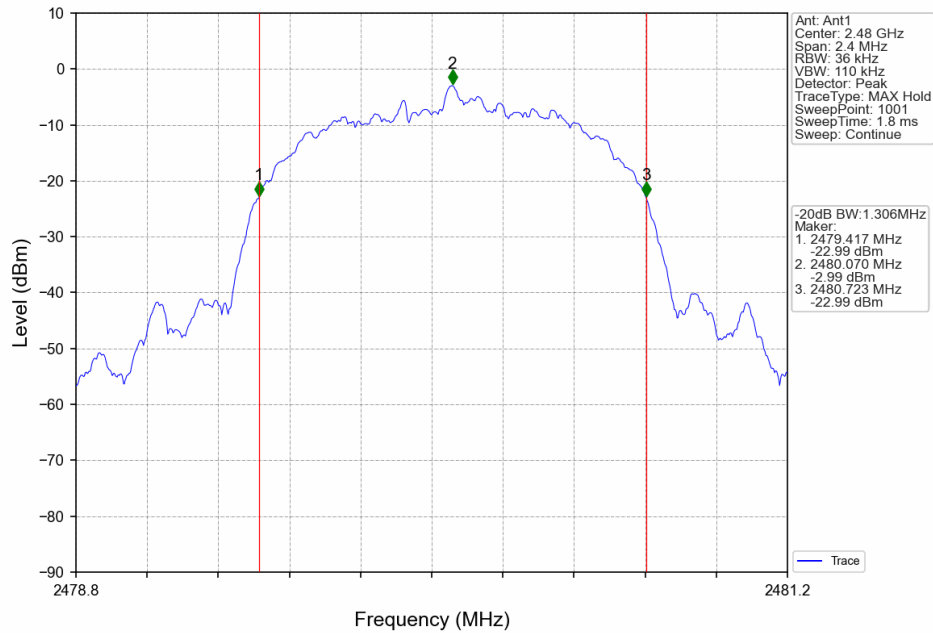
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	-0.30	<=30	Pass
		2441	DH5	-1.10	<=30	Pass
		2480	DH5	-1.93	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	1.93	<=20.97	Pass
		2441	2DH5	1.17	<=20.97	Pass
		2480	2DH5	0.36	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.34	<=20.97	Pass
		2441	3DH5	1.58	<=20.97	Pass
		2480	3DH5	0.78	<=20.97	Pass

Note1: Antenna Gain: Ant1: -0.68dBi;



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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	1.002	0.952	≥ 0.952	Pass
PI/4DQPSK	SISO	HOPP	2DH5	1.003	1.325	≥ 0.883	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.313	≥ 0.875	Pass

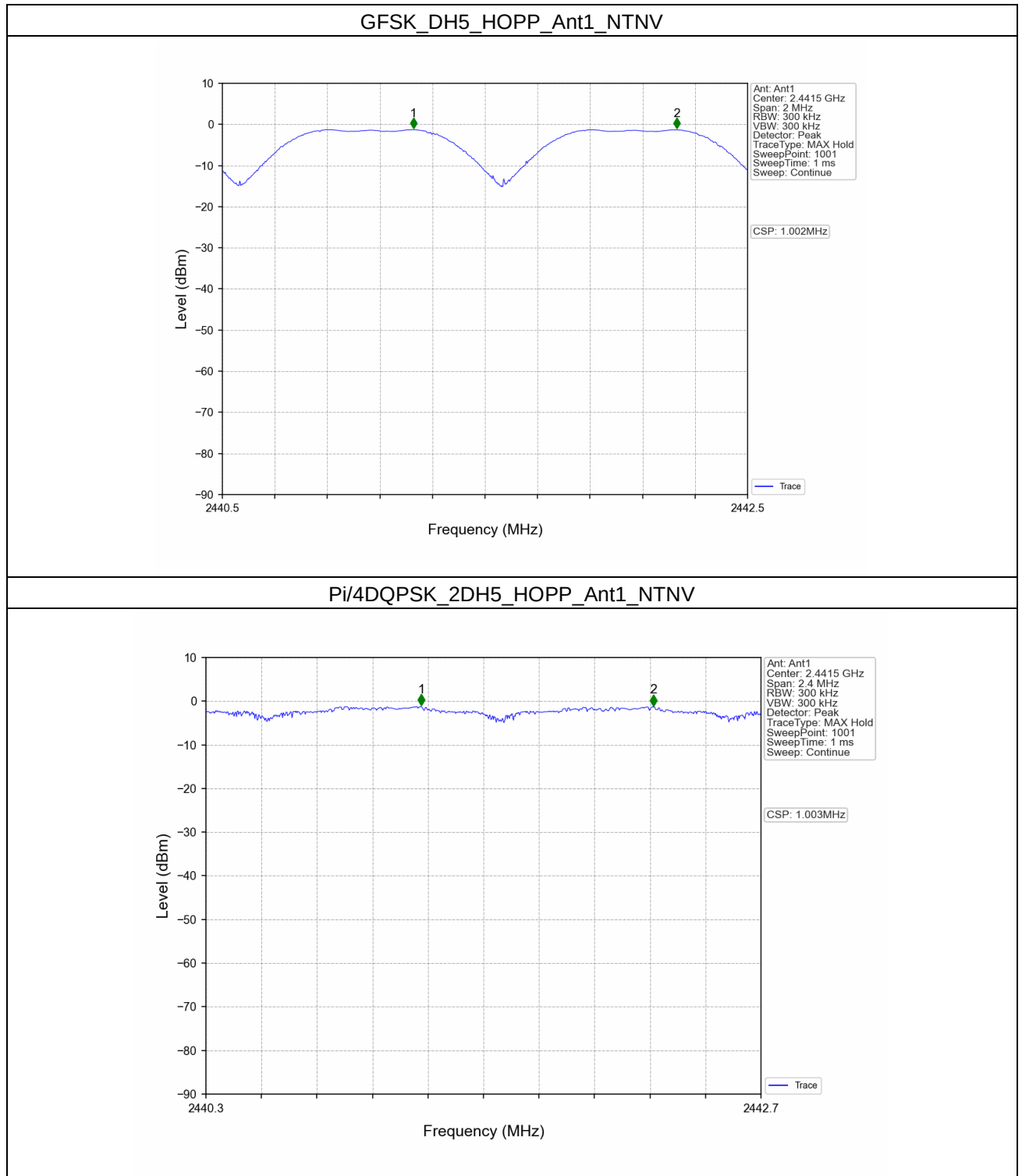


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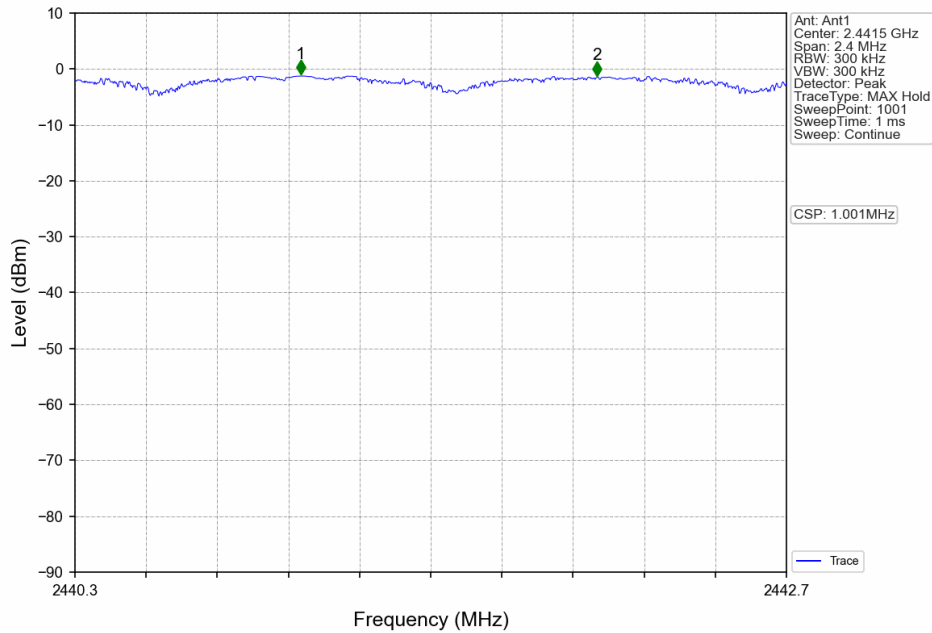
3.1.2 Test Graph



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8DPSK_3DH5_HOPP_Ant1_NTNV



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4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

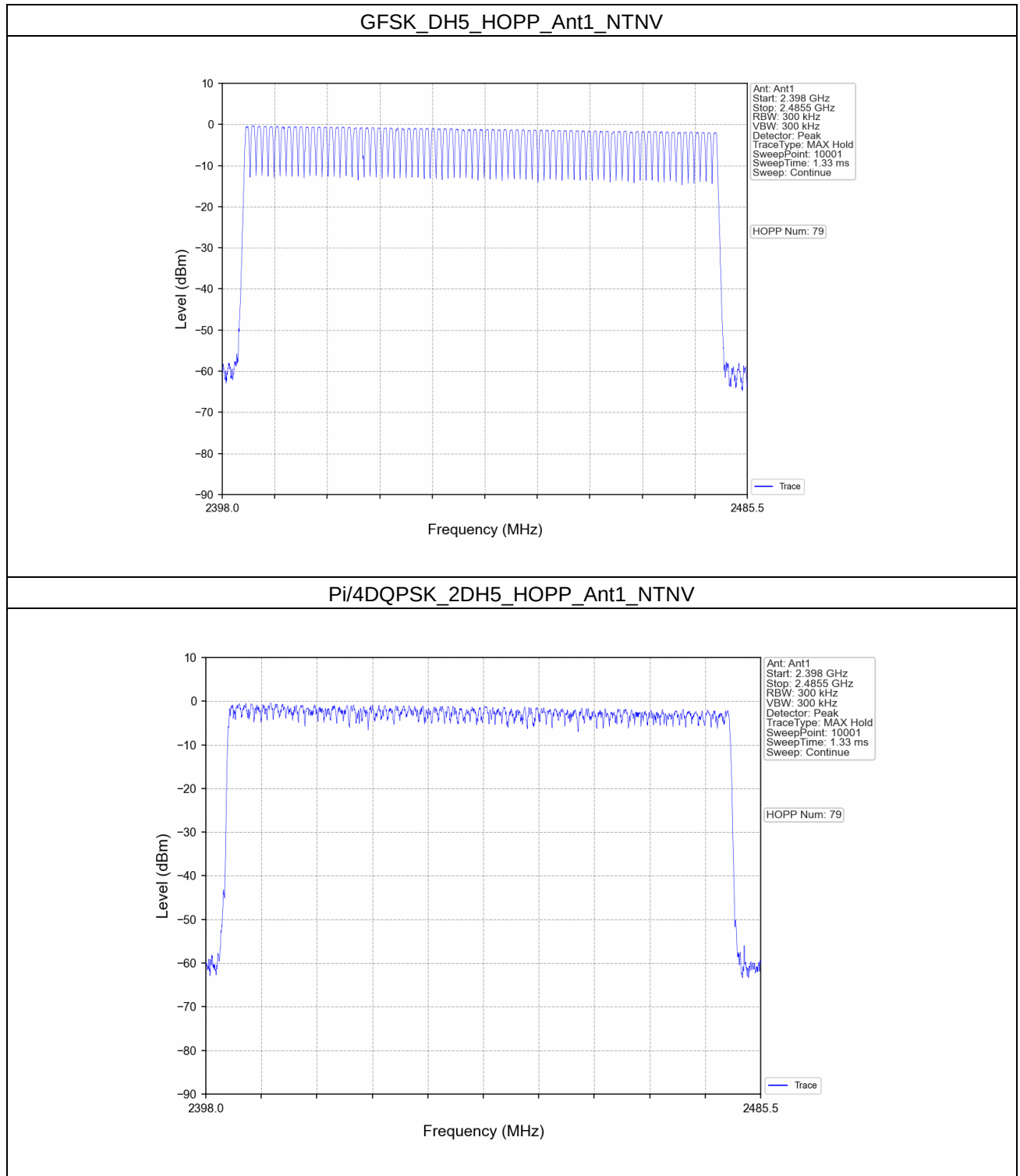
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



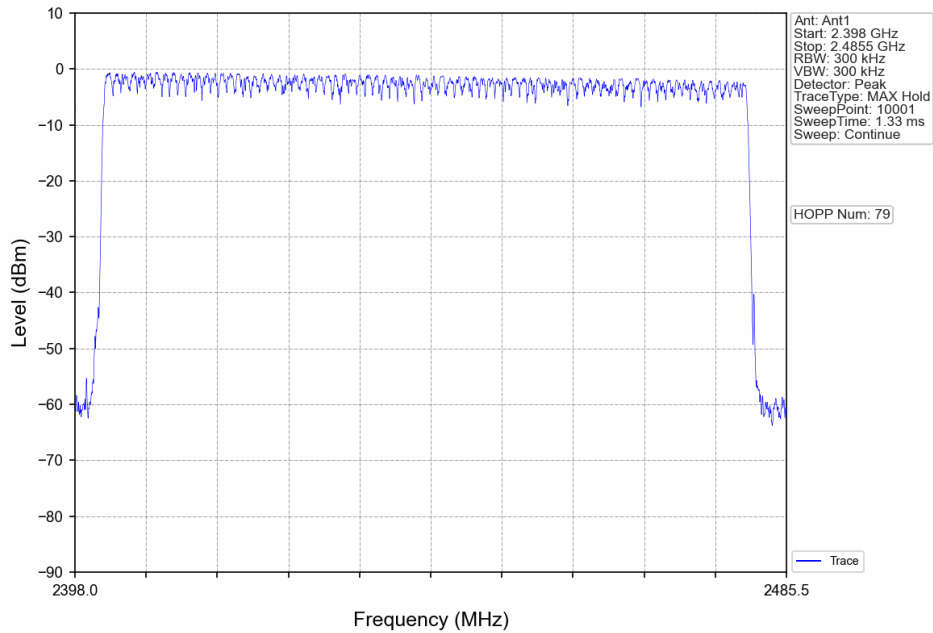
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4.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

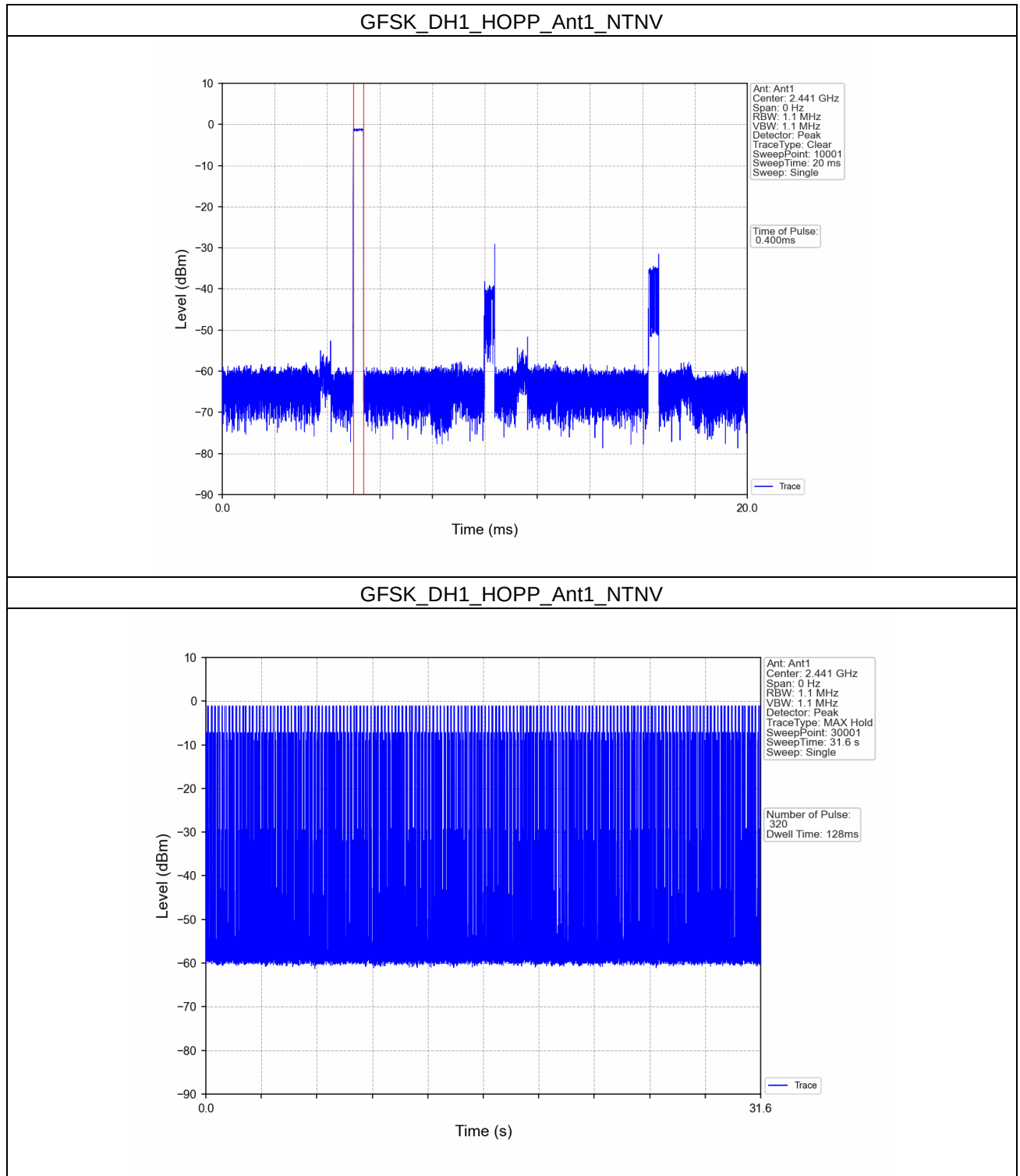
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.400	31.600	320	128.000	<=400	Pass
			DH3	1.656	31.600	162	268.272	<=400	Pass
			DH5	2.908	31.600	99	287.892	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.410	31.600	320	131.200	<=400	Pass
			2DH3	1.662	31.600	167	277.554	<=400	Pass
			2DH5	2.916	31.600	104	303.264	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.668	31.600	161	268.548	<=400	Pass
			3DH5	2.918	31.600	95	277.210	<=400	Pass



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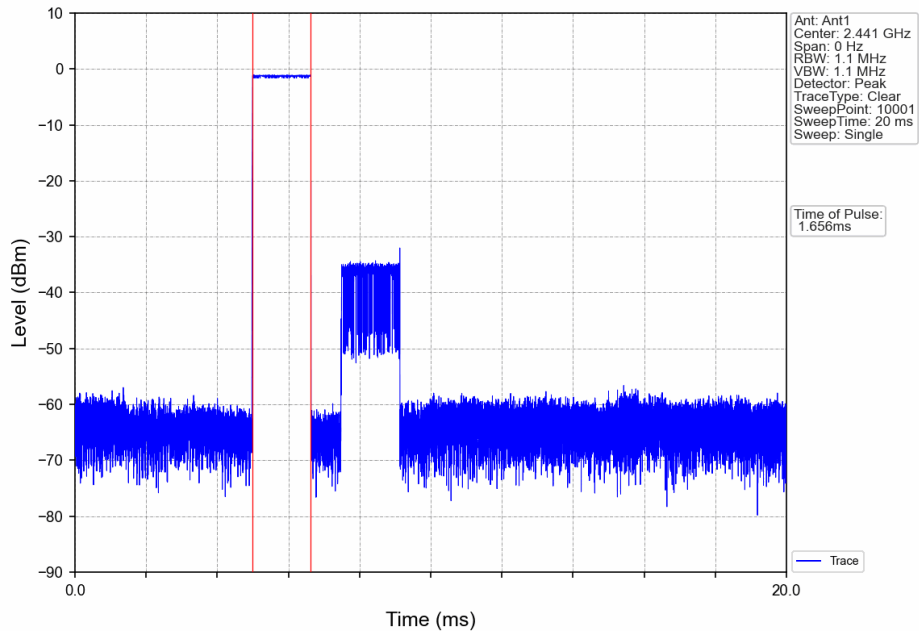
5.1.2 Test Graph



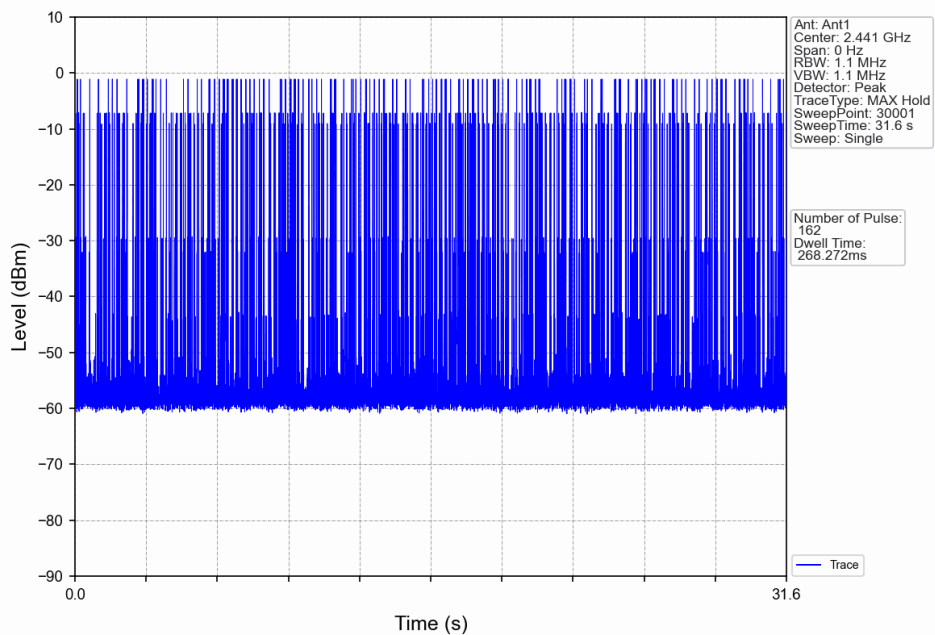
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GFSK_DH3_HOPP_Ant1_NTNV



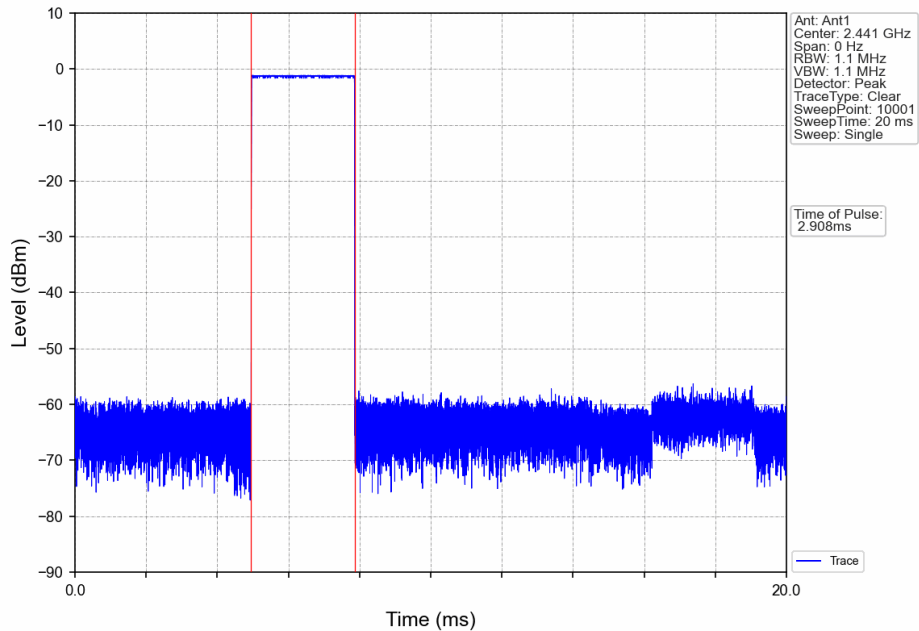
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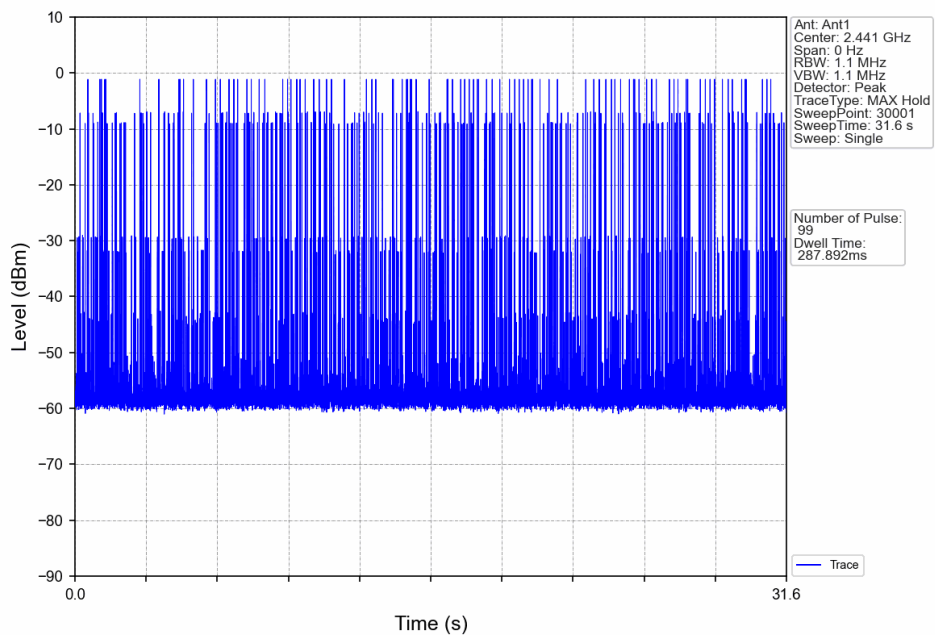
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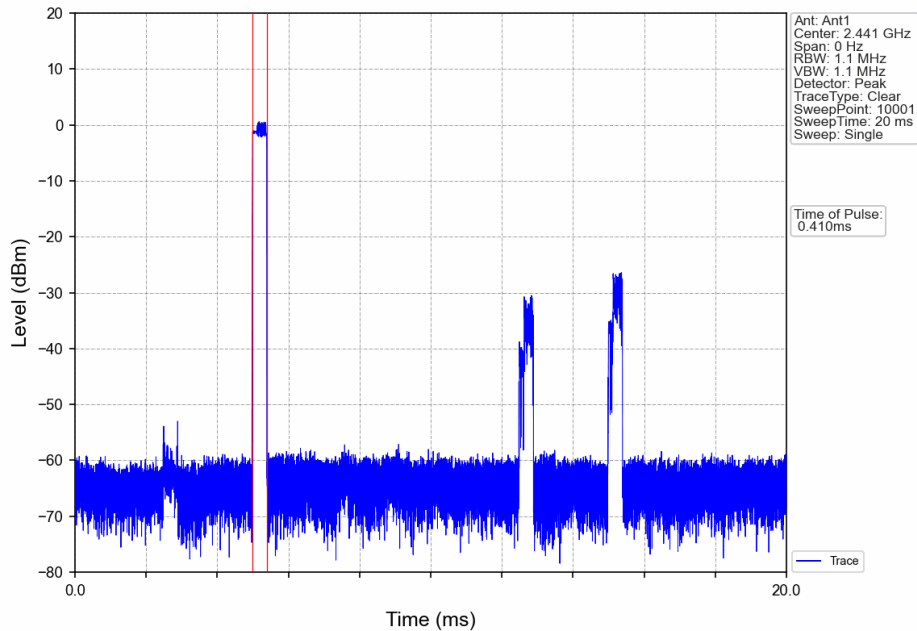
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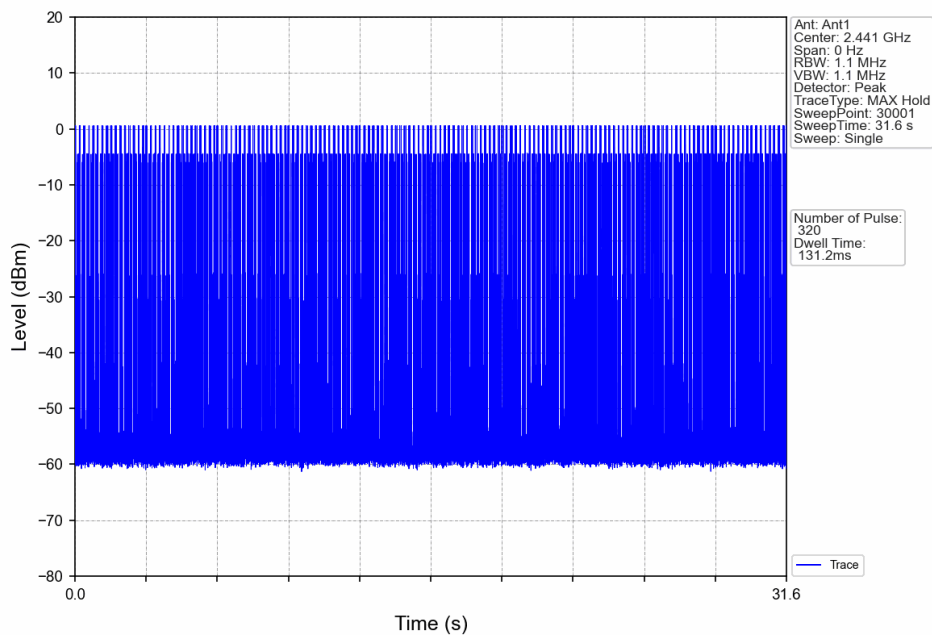
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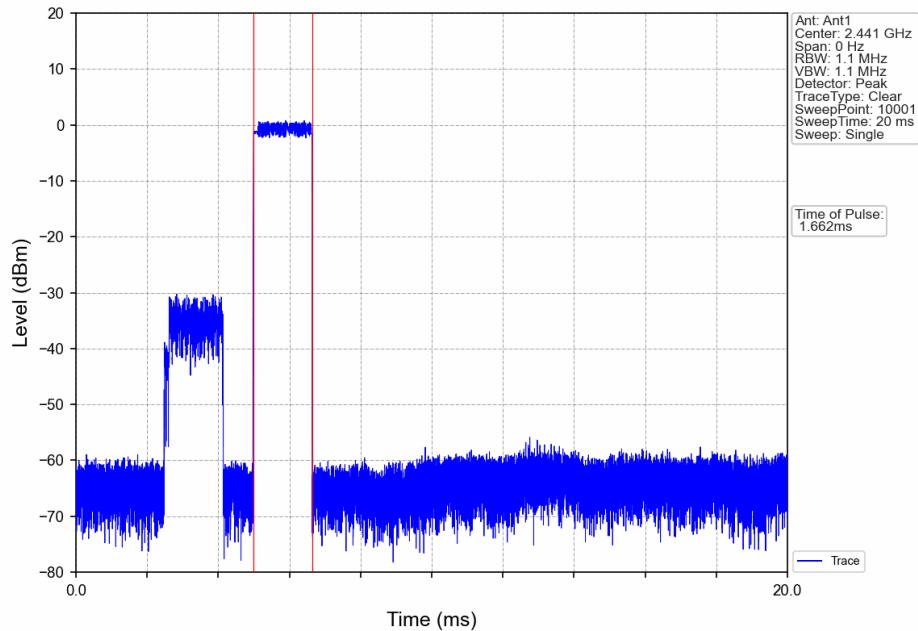
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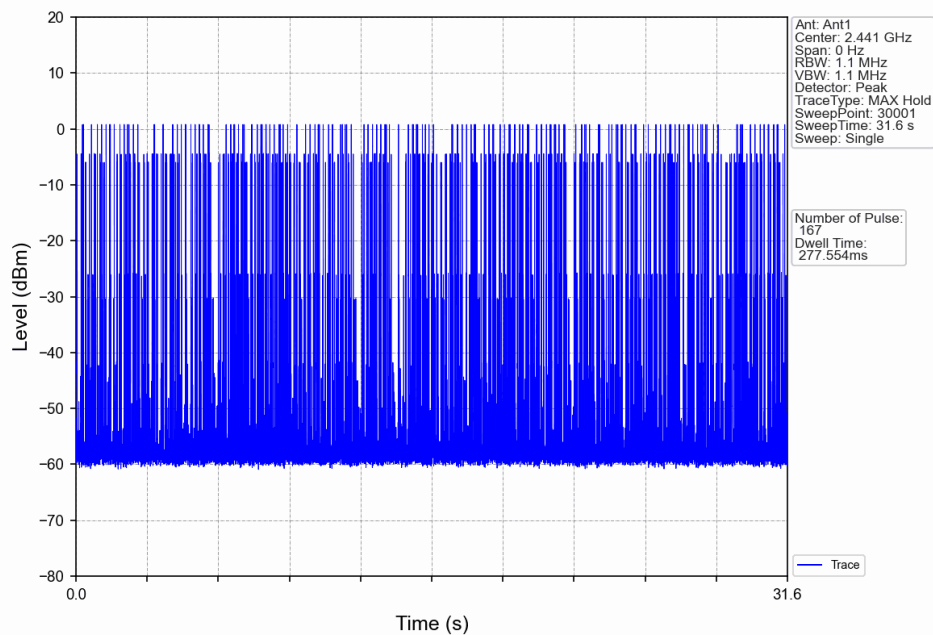
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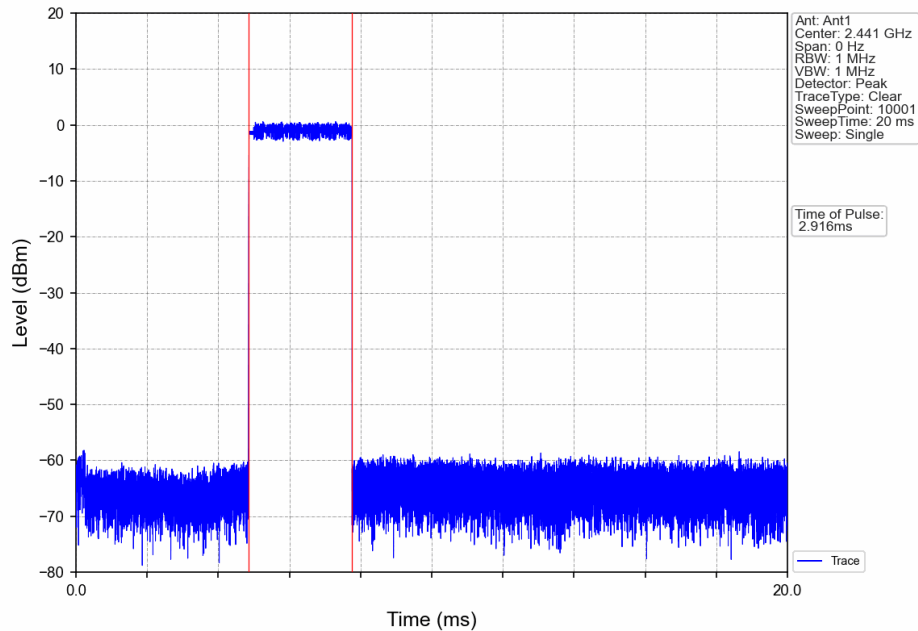
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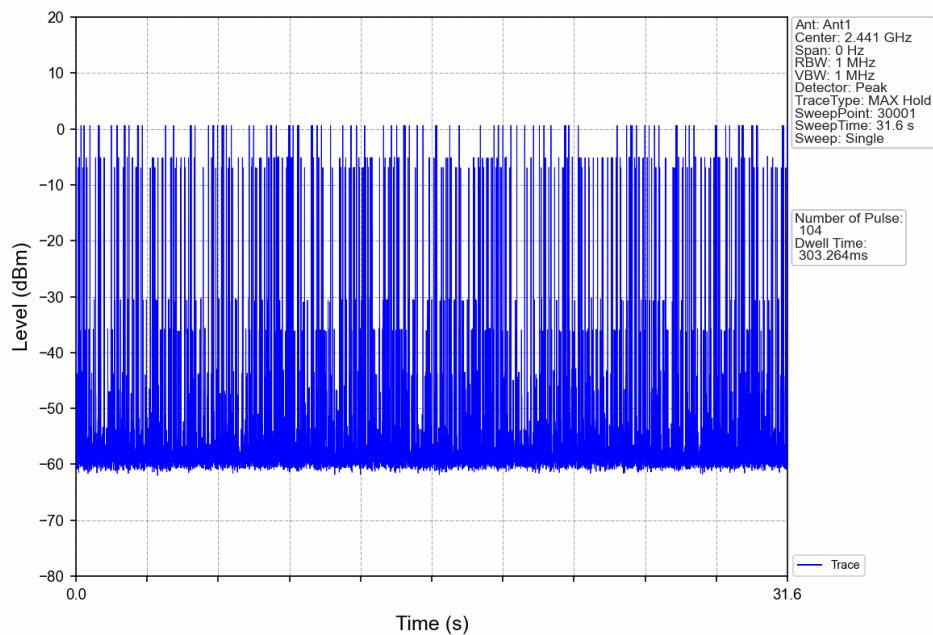
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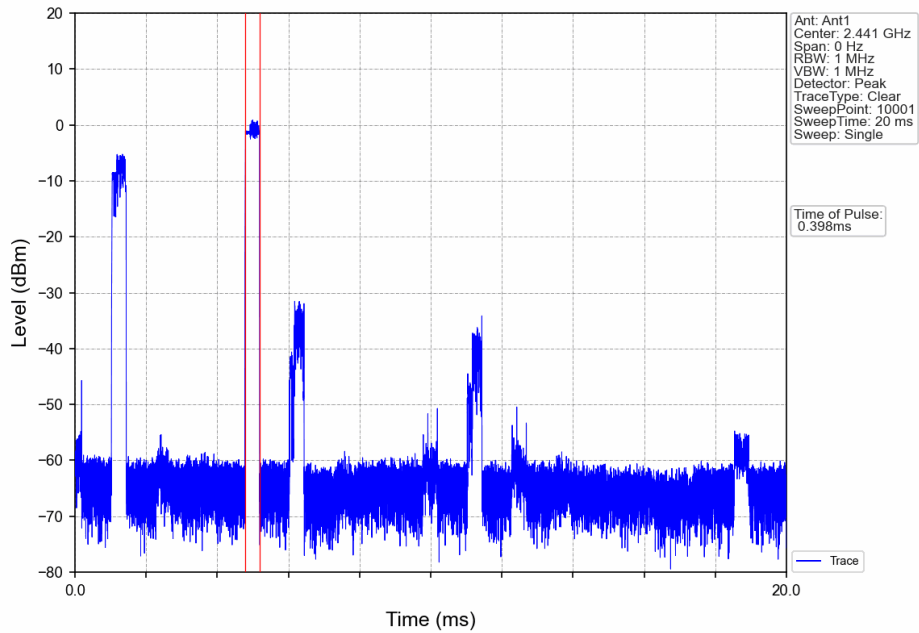
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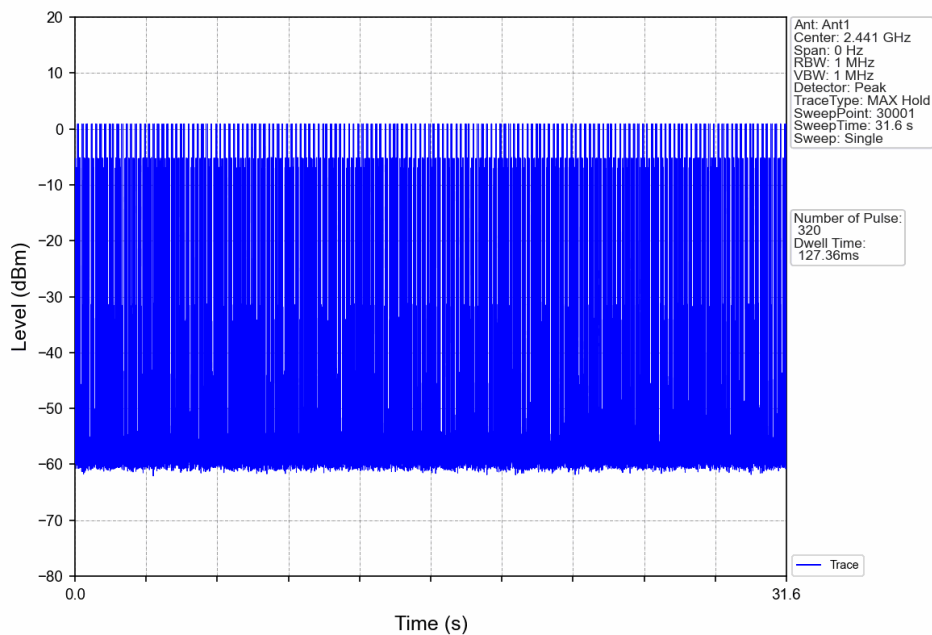
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8DPSK_3DH1_HOPP_Ant1_NTNV



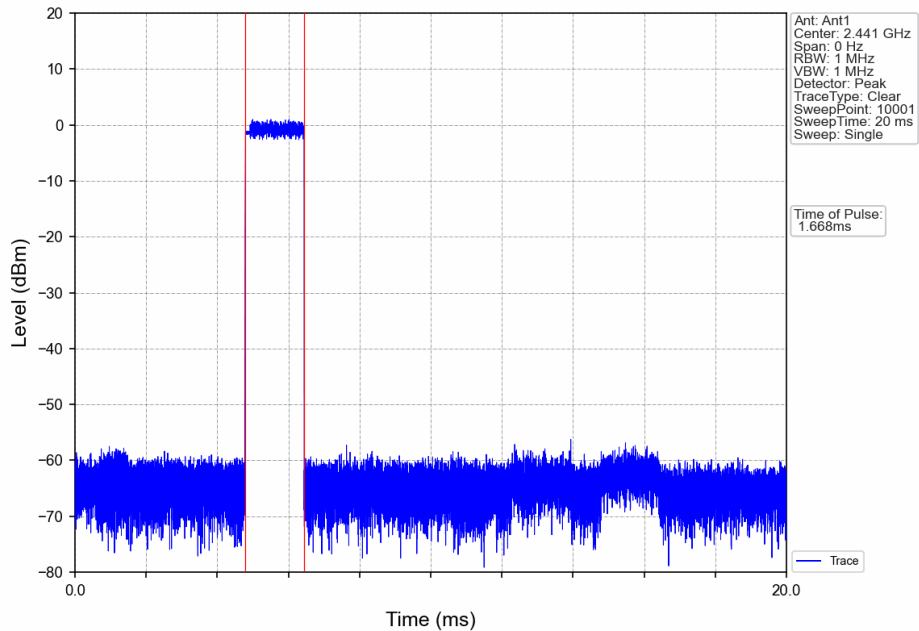
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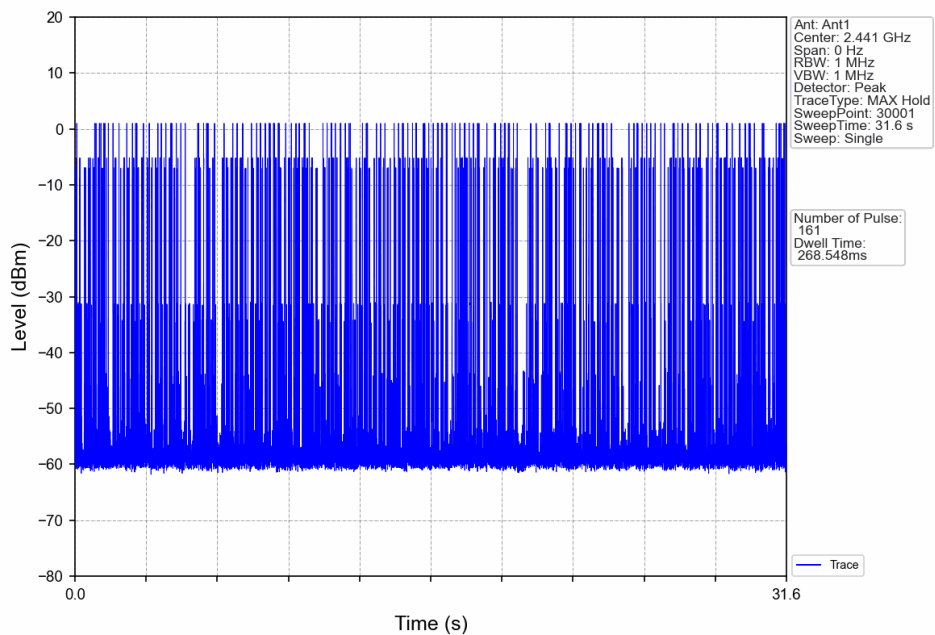
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8DPSK_3DH3_HOPP_Ant1_NTNV



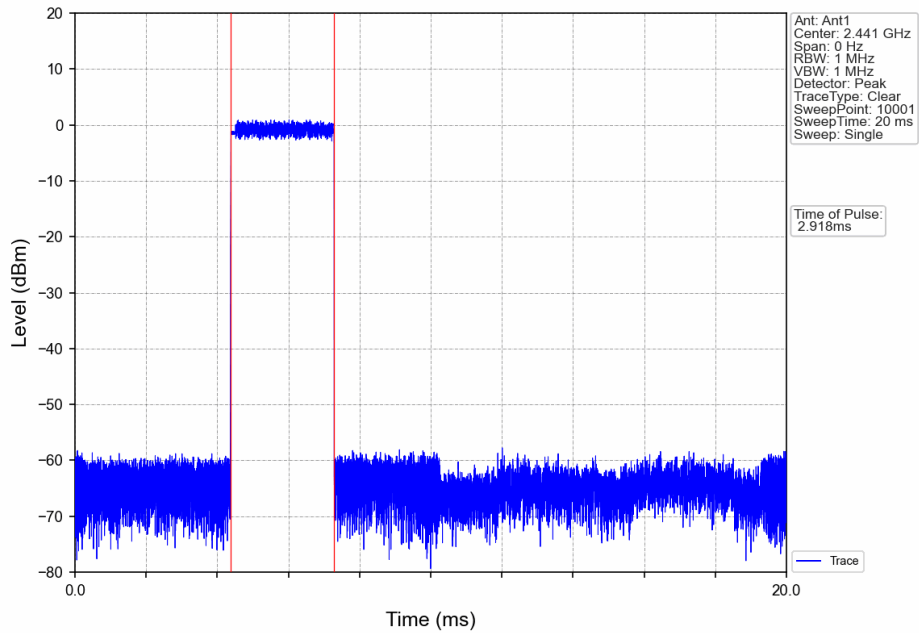
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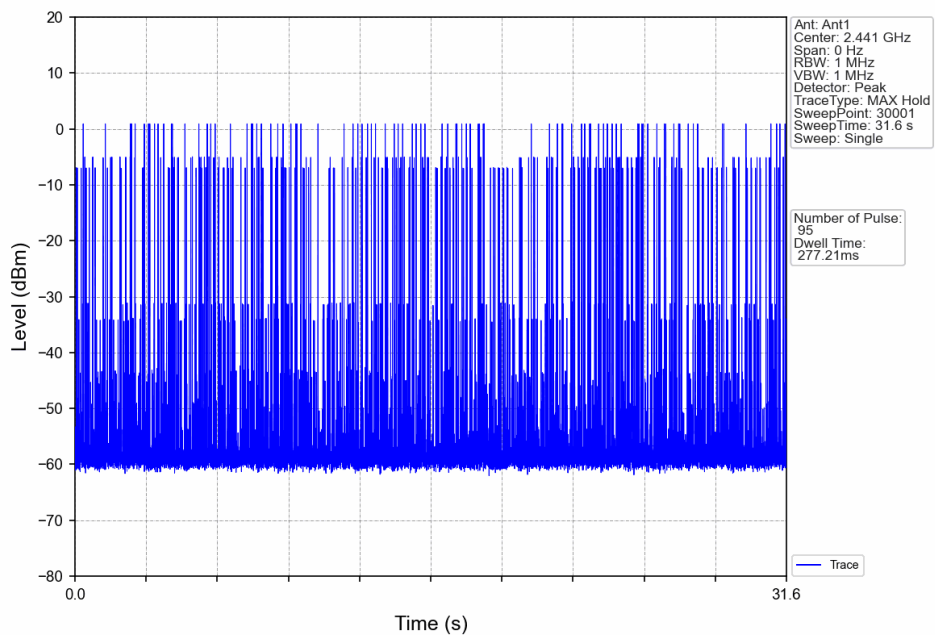
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_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	-0.46
		2441	DH5	1	-1.25
		2480	DH5	1	-2.07
Pi/4DQPSK	SISO	2402	2DH5	1	-0.64
		2441	2DH5	1	-1.41
		2480	2DH5	1	-2.49
8DPSK	SISO	2402	3DH5	1	-0.54
		2441	3DH5	1	-1.21
		2480	3DH5	1	-2.03

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.

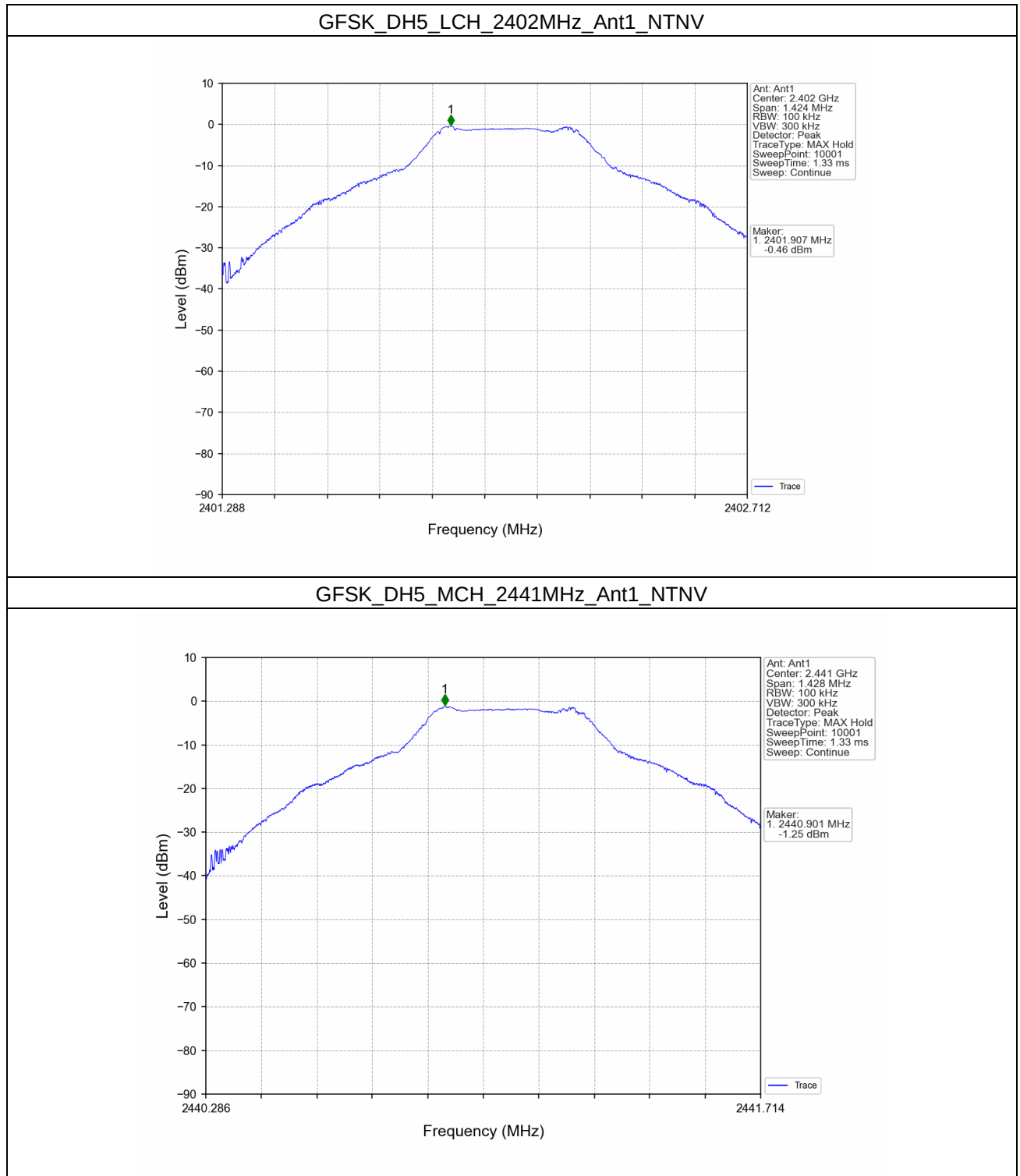
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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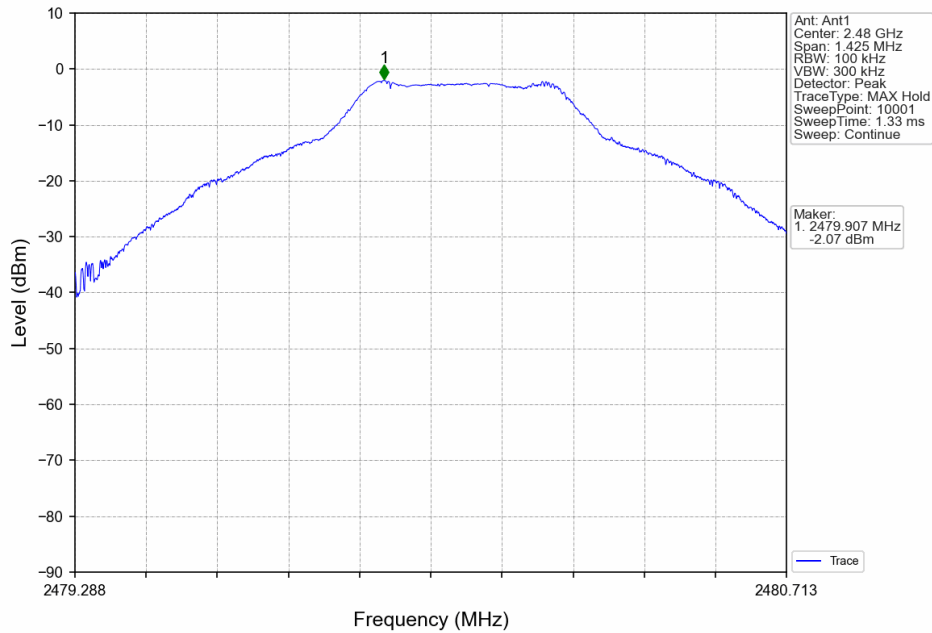
6.1.2 Test Graph



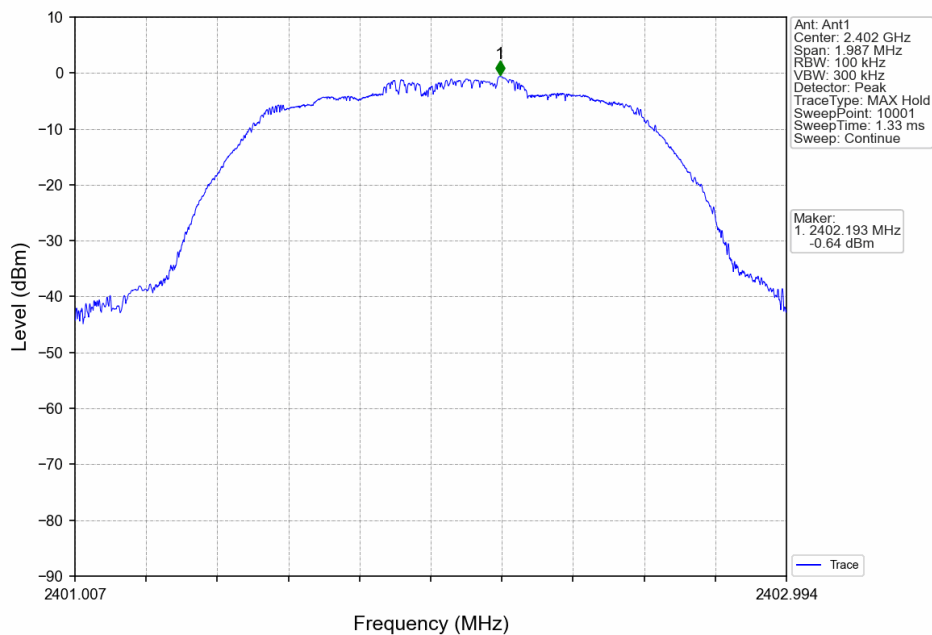
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



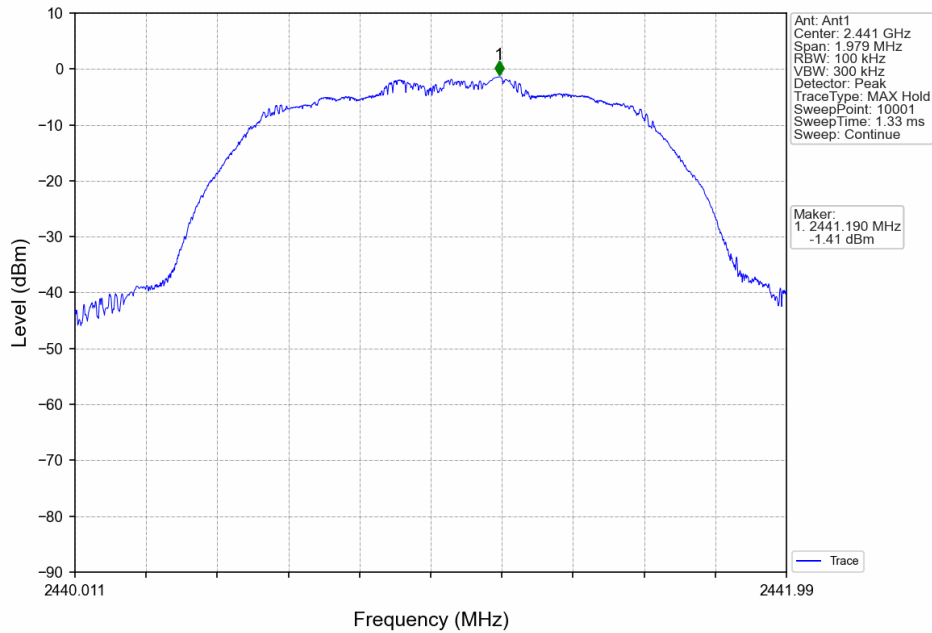
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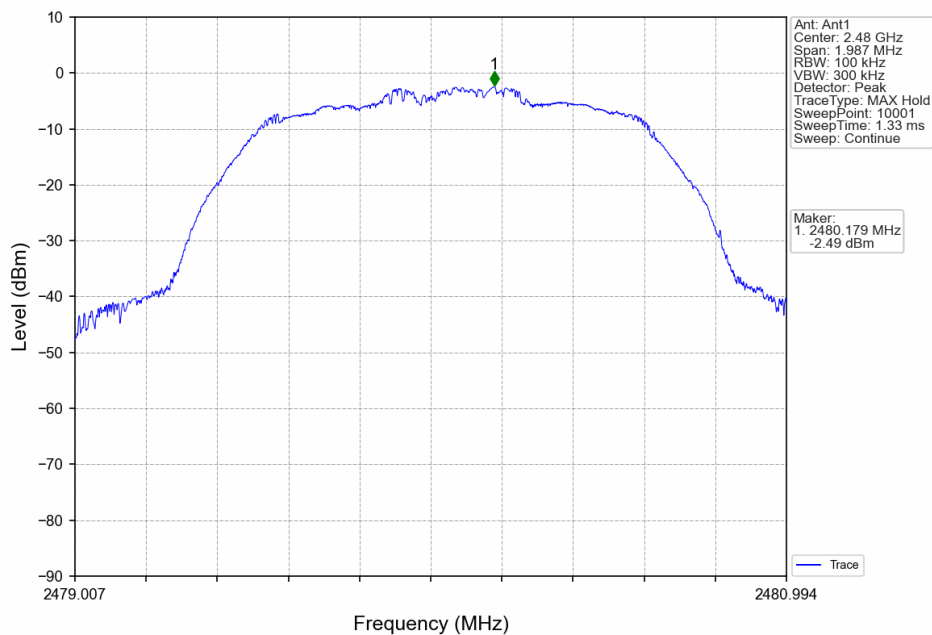
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



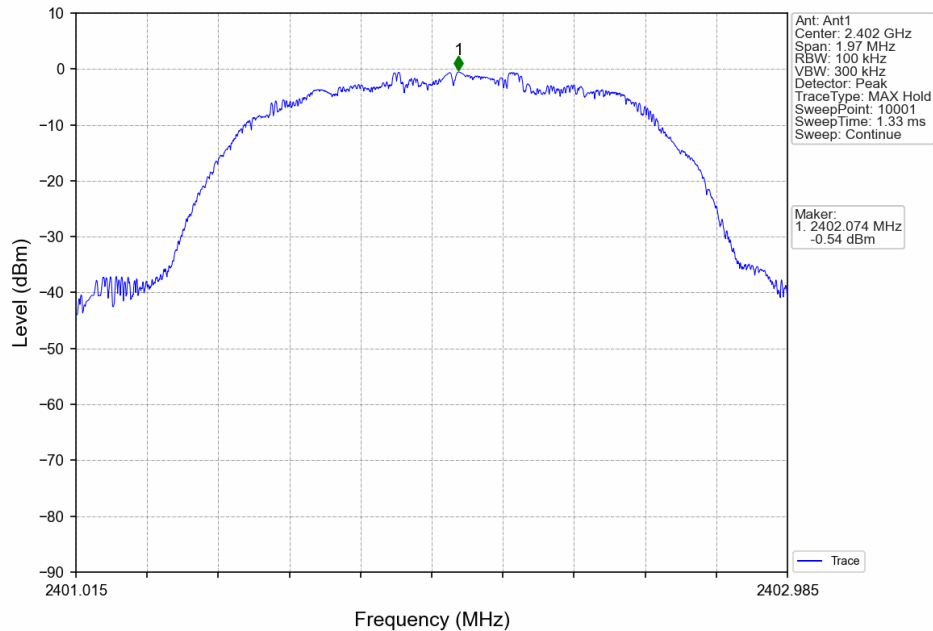
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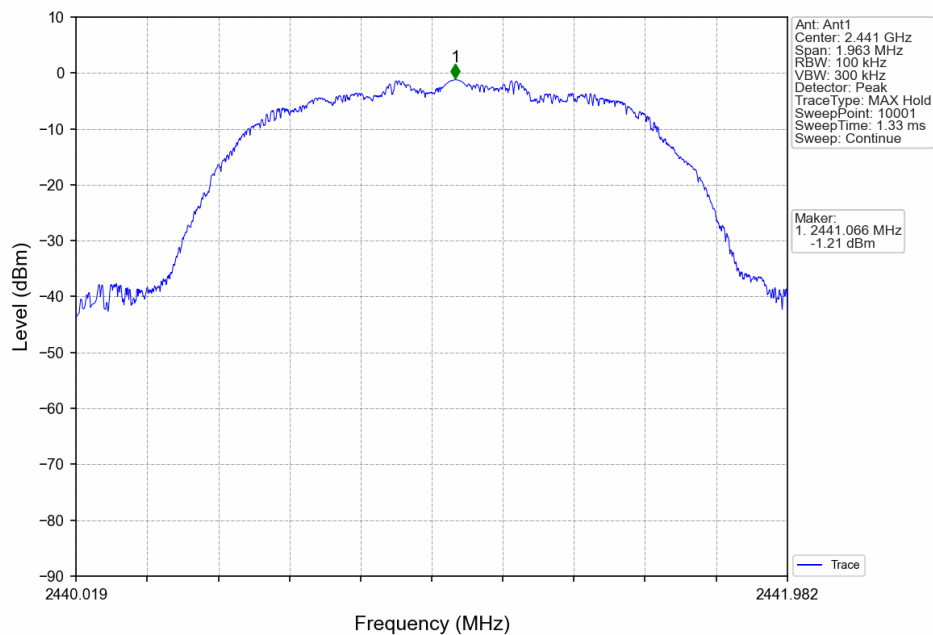
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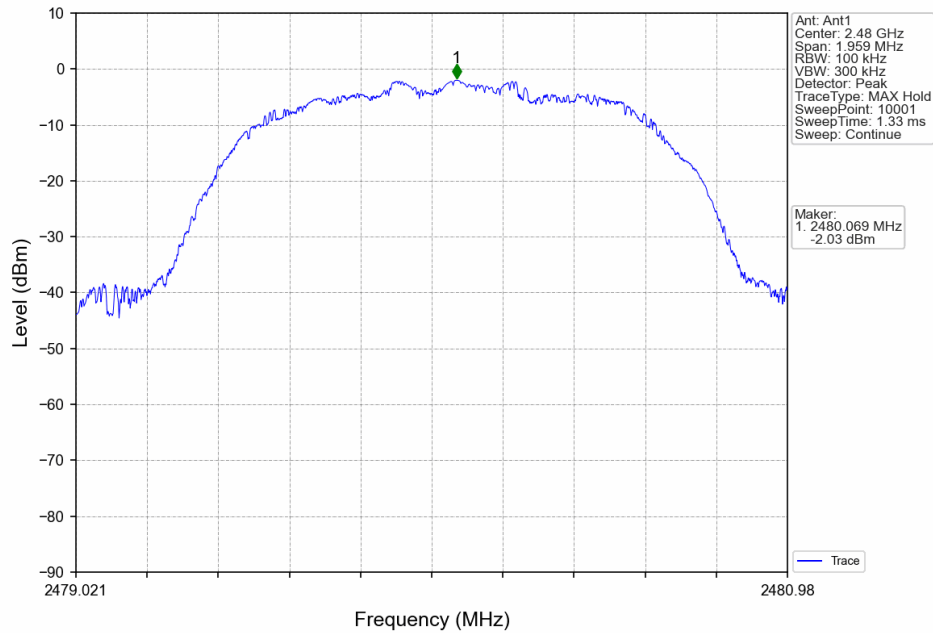
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_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	-0.46	-20.46	Pass
		2441	DH5	1	-0.46	-20.46	Pass
		2480	DH5	1	-0.46	-20.46	Pass
		HOPP	DH5	1	-0.46	-20.46	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-0.64	-20.64	Pass
		2441	2DH5	1	-0.64	-20.64	Pass
		2480	2DH5	1	-0.64	-20.64	Pass
		HOPP	2DH5	1	-0.64	-20.64	Pass
8DPSK	SISO	2402	3DH5	1	-0.54	-20.54	Pass
		2441	3DH5	1	-0.54	-20.54	Pass
		2480	3DH5	1	-0.54	-20.54	Pass
		HOPP	3DH5	1	-0.54	-20.54	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.

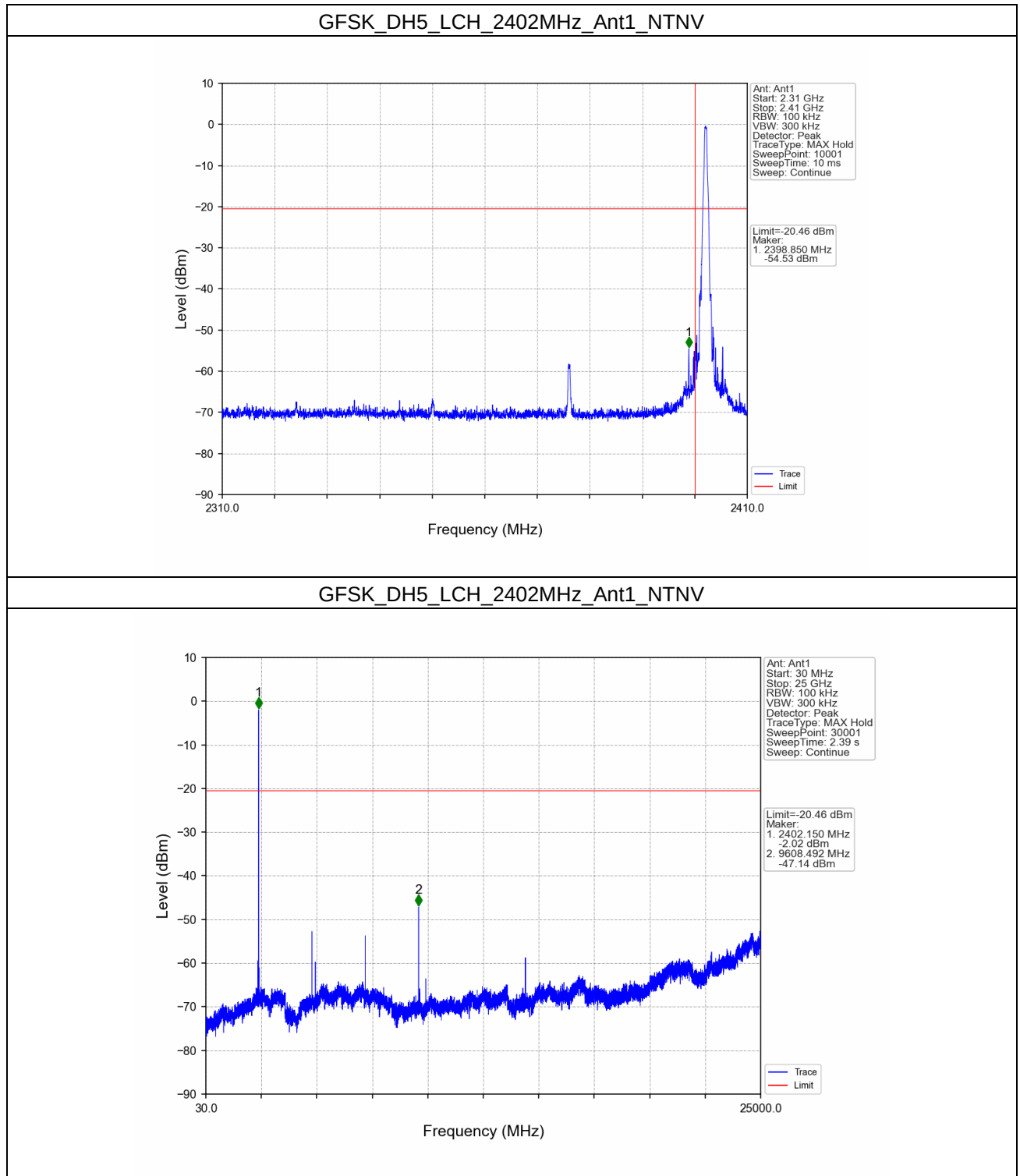


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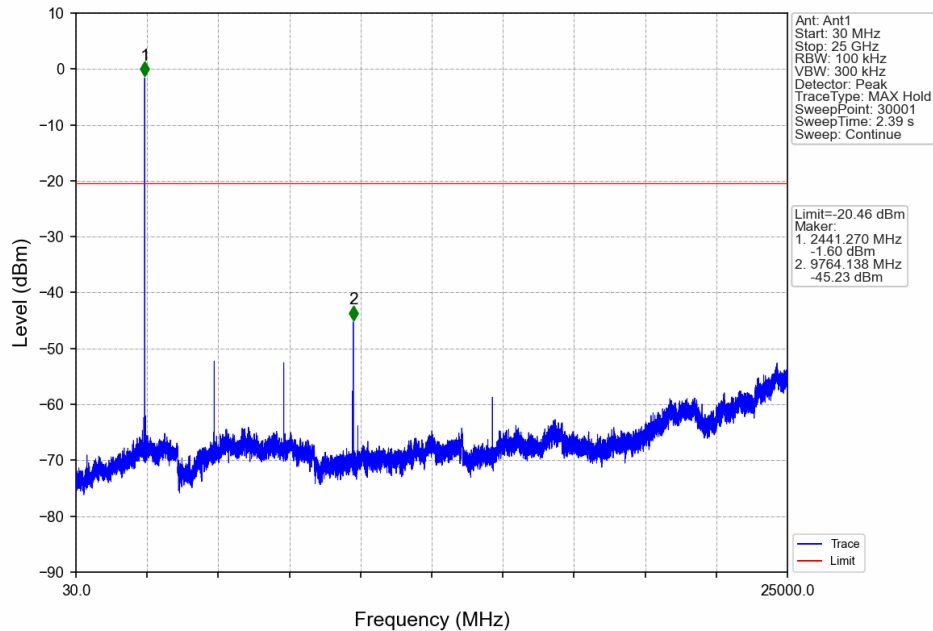
6.2.2 Test Graph



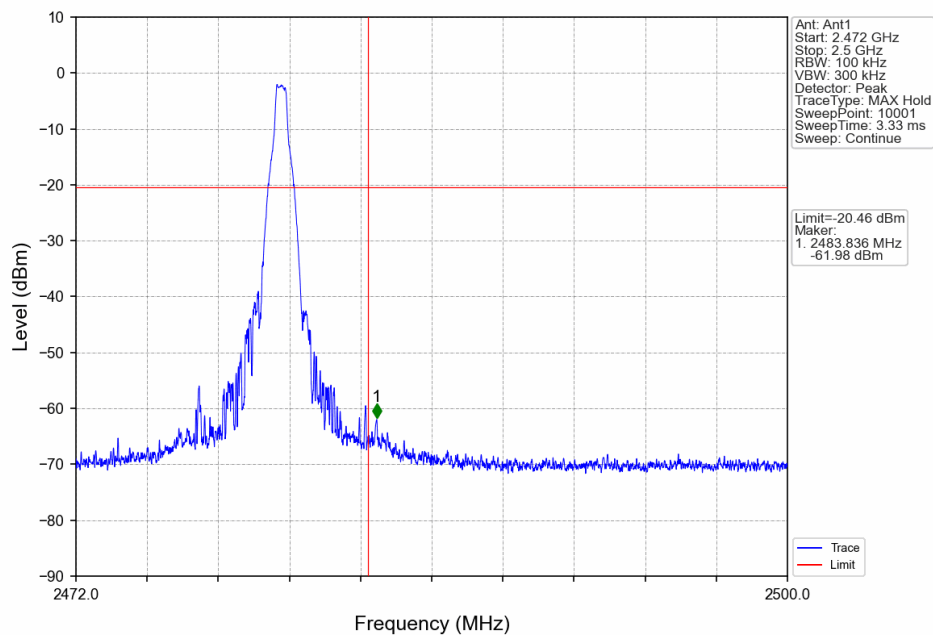
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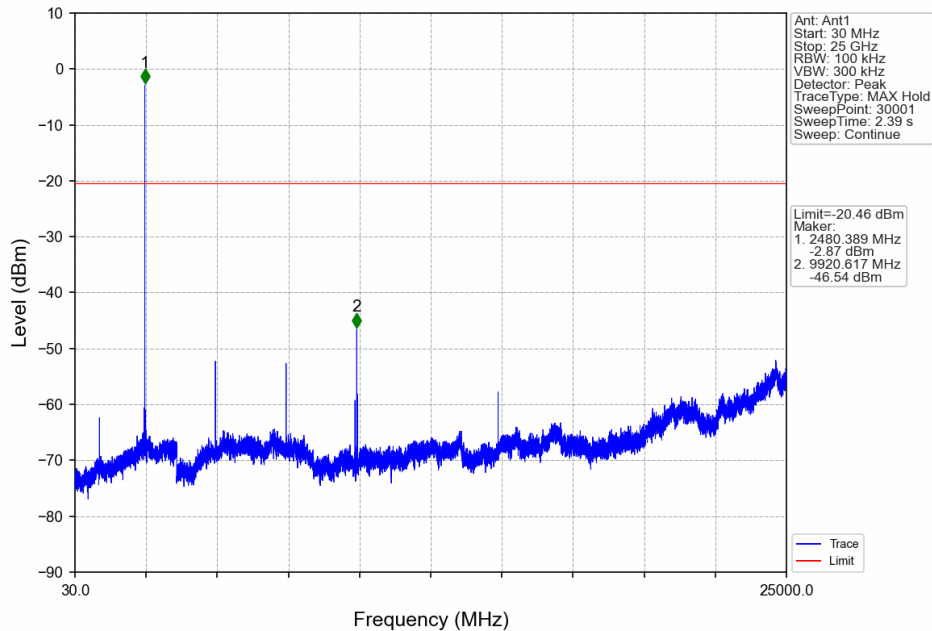
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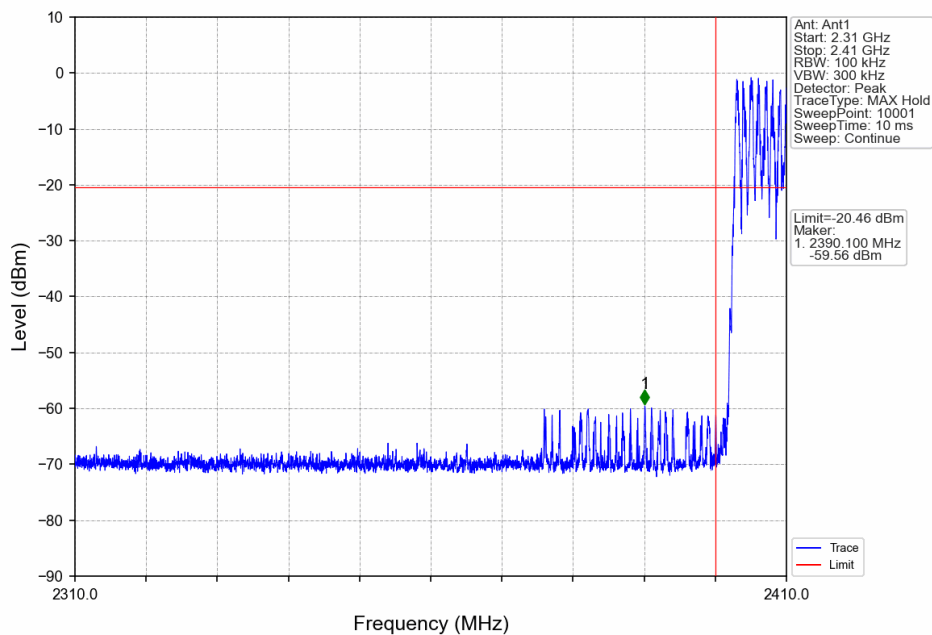
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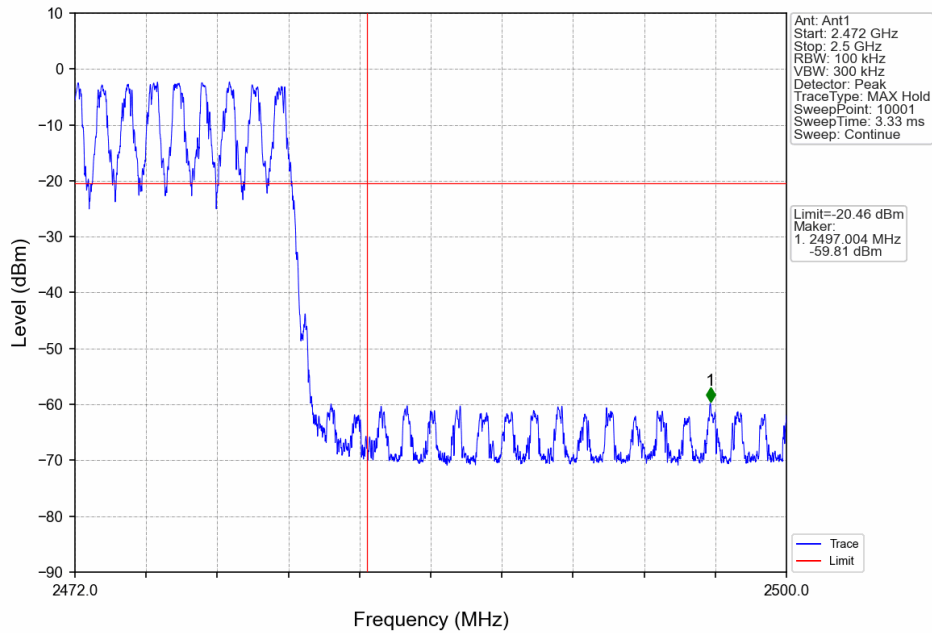
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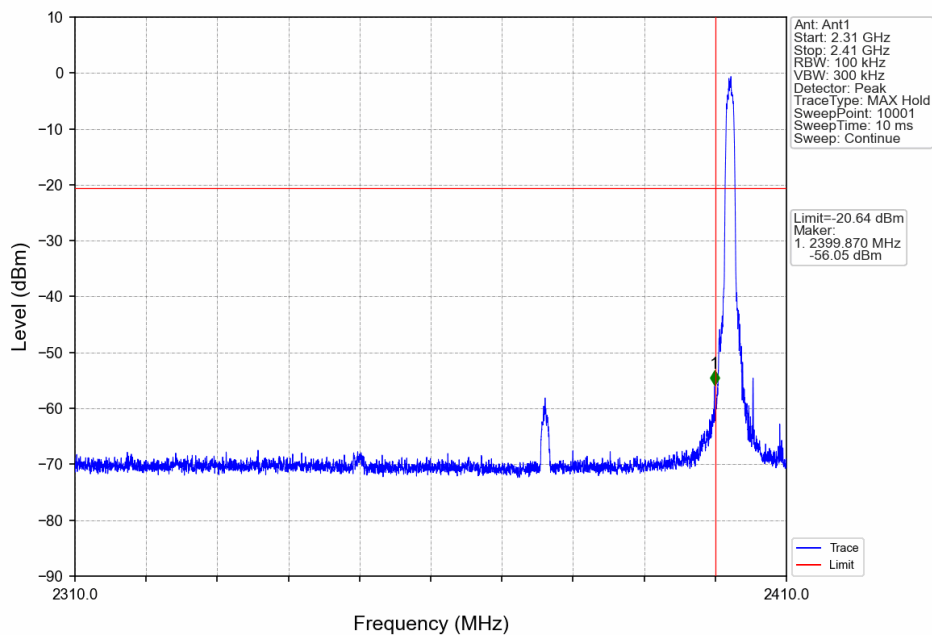
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GFSK_DH5_HOPP_Ant1_NTNV



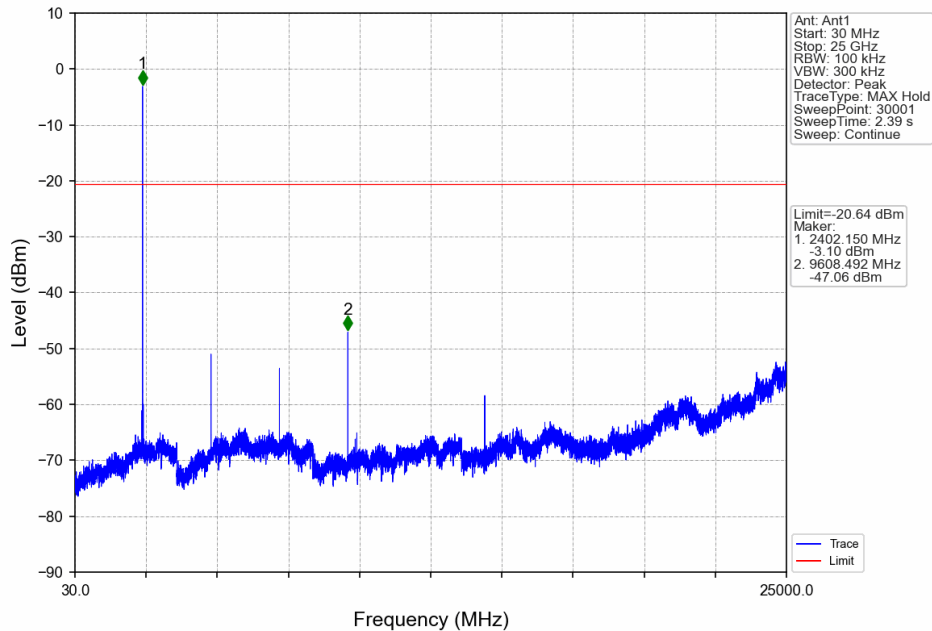
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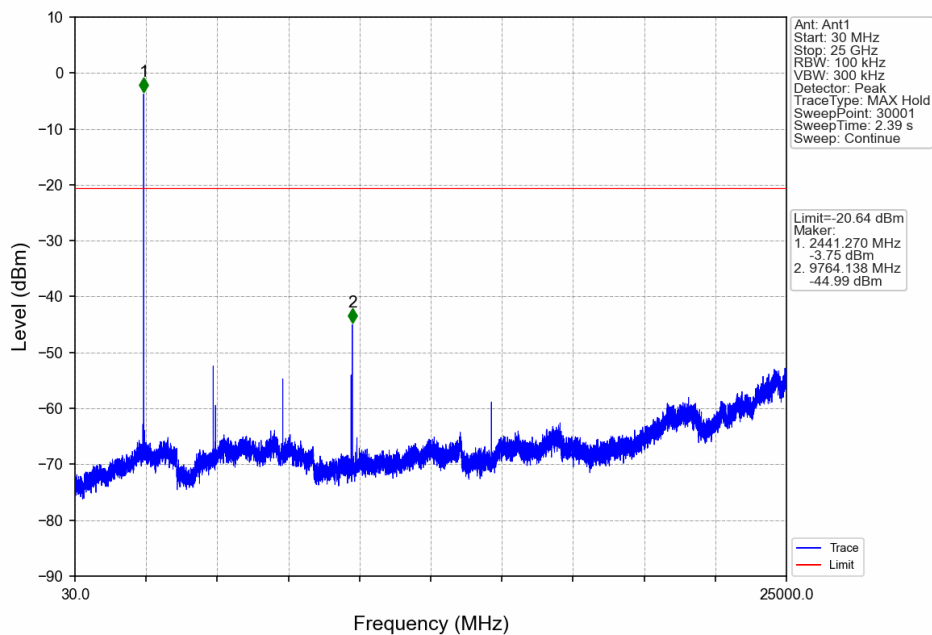
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



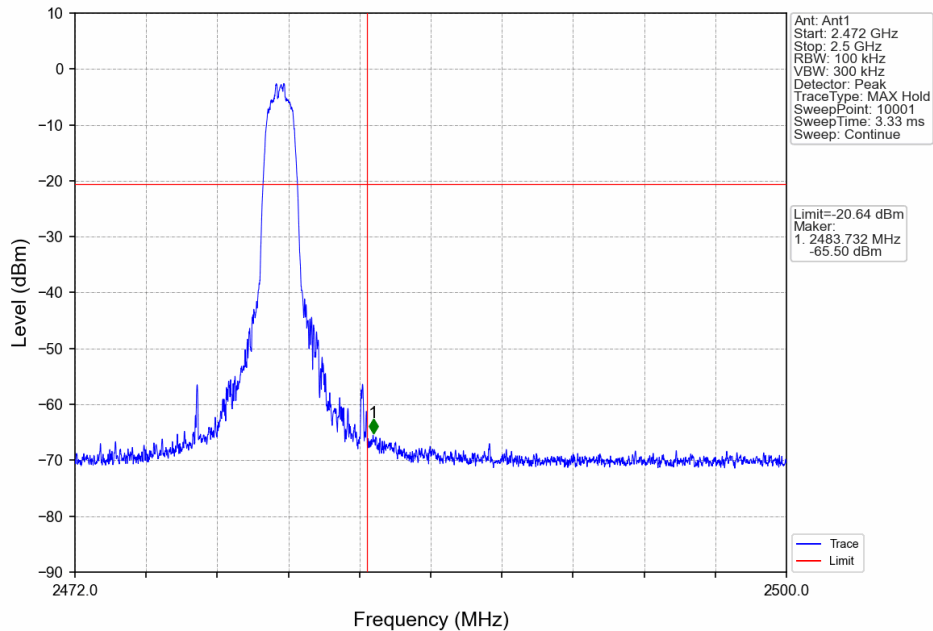
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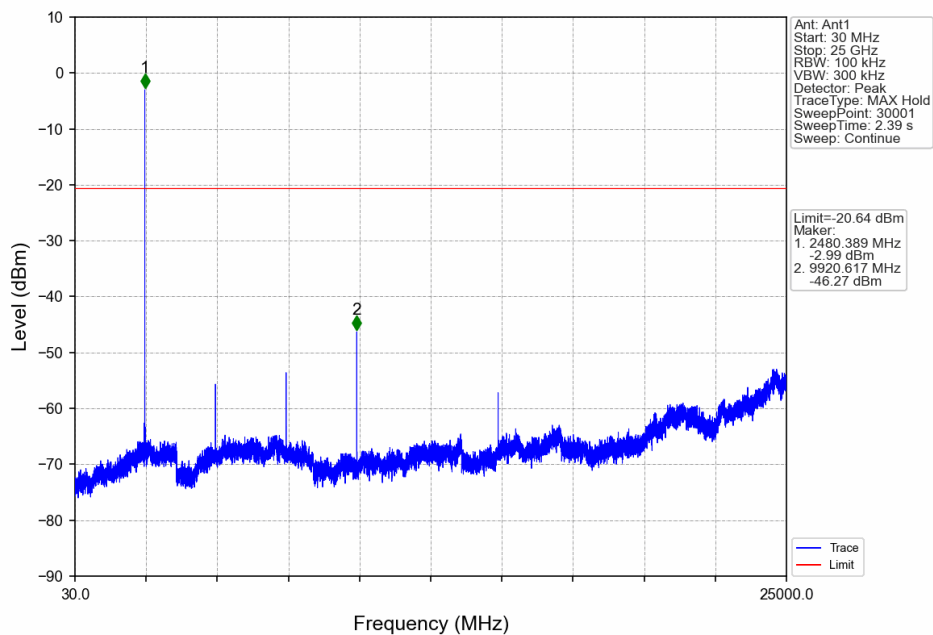
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



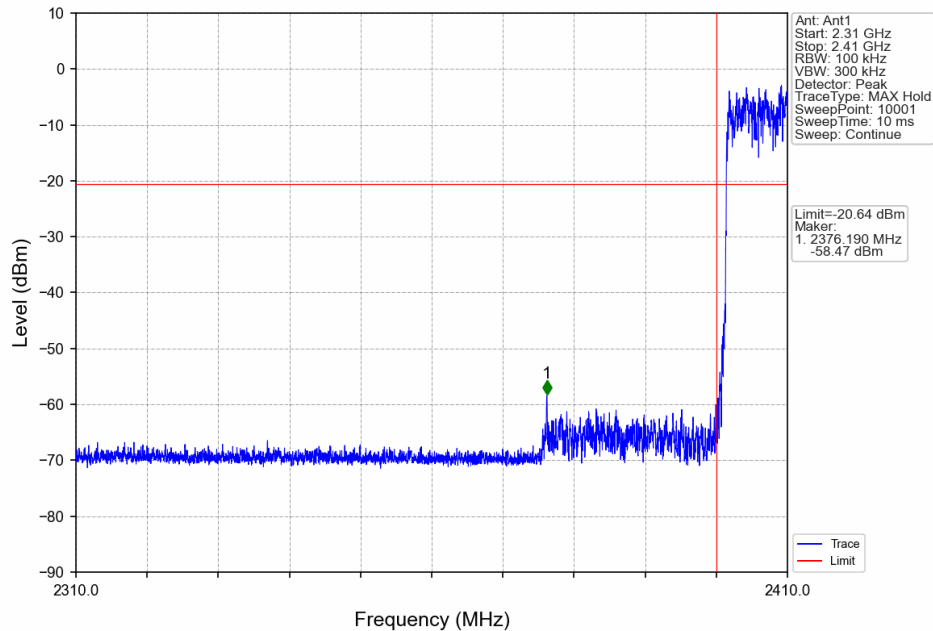
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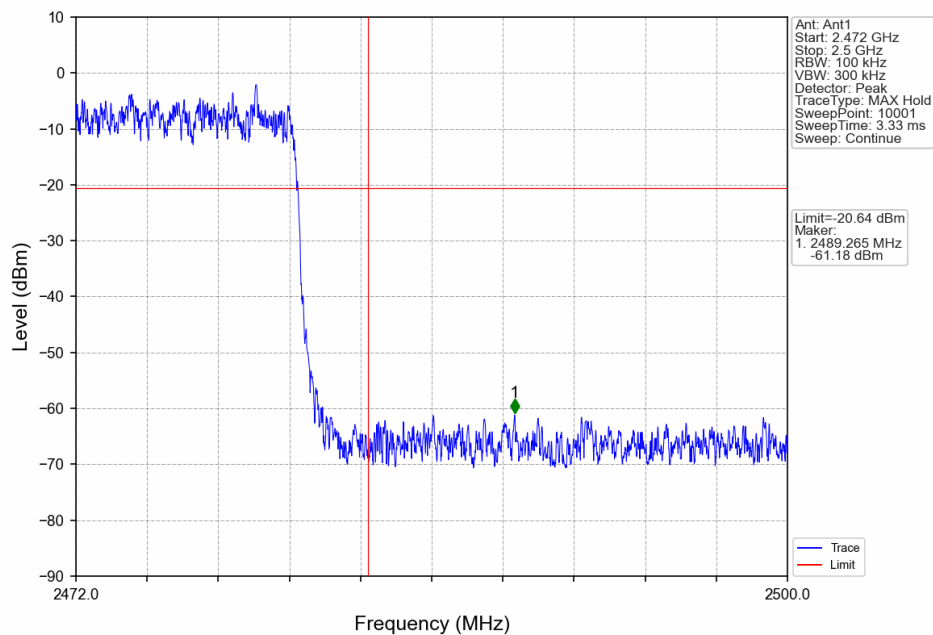
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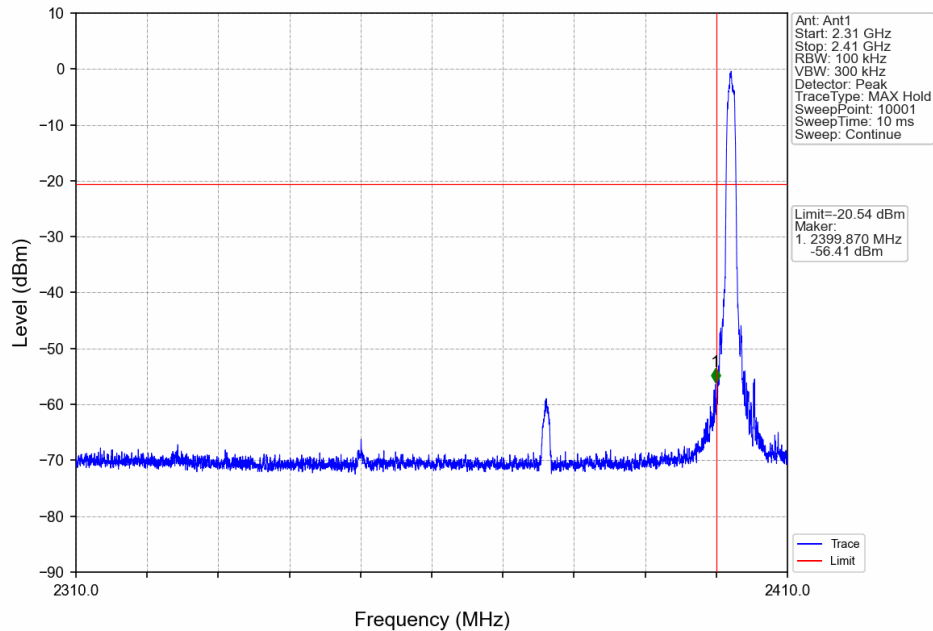
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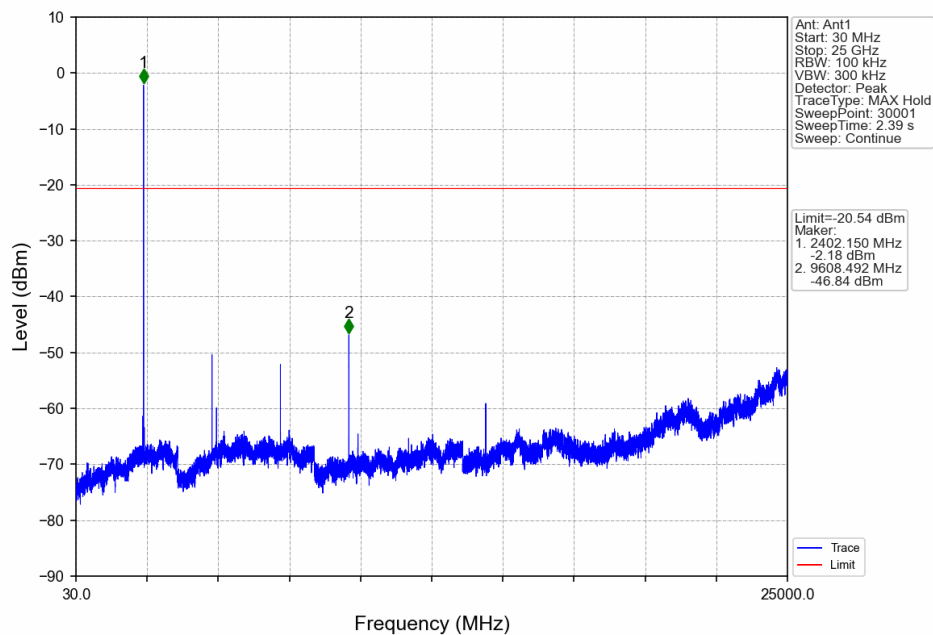
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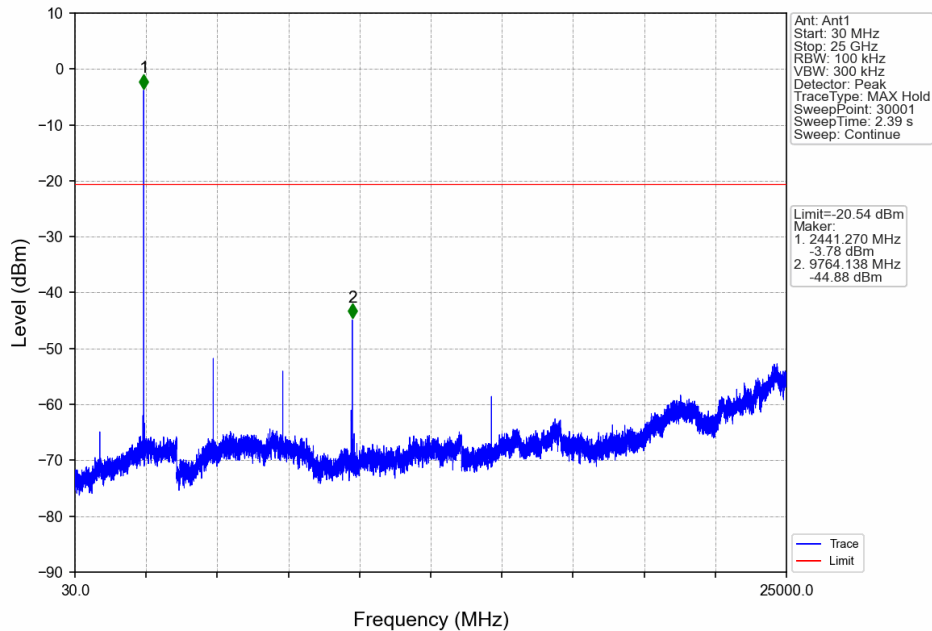
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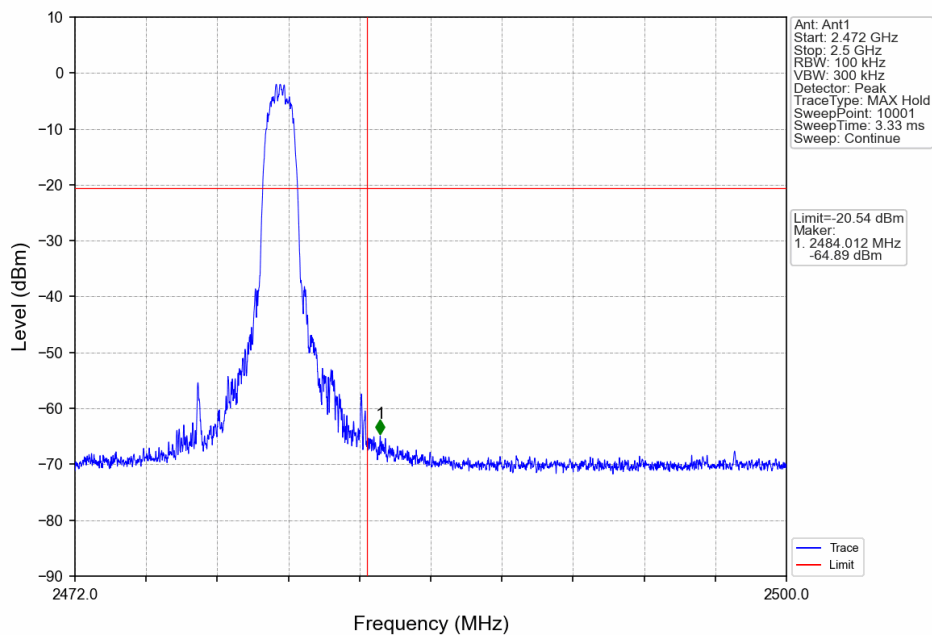
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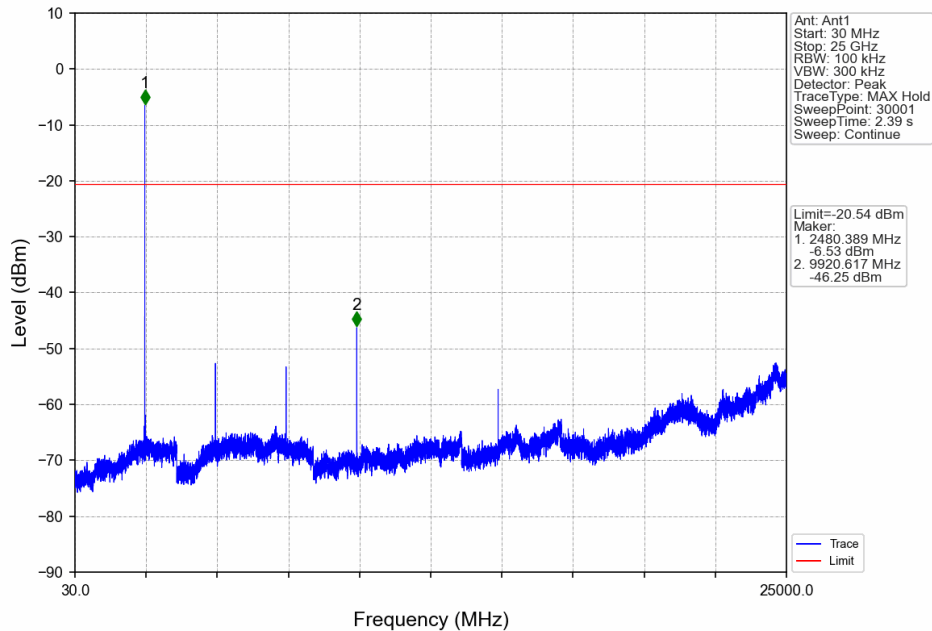
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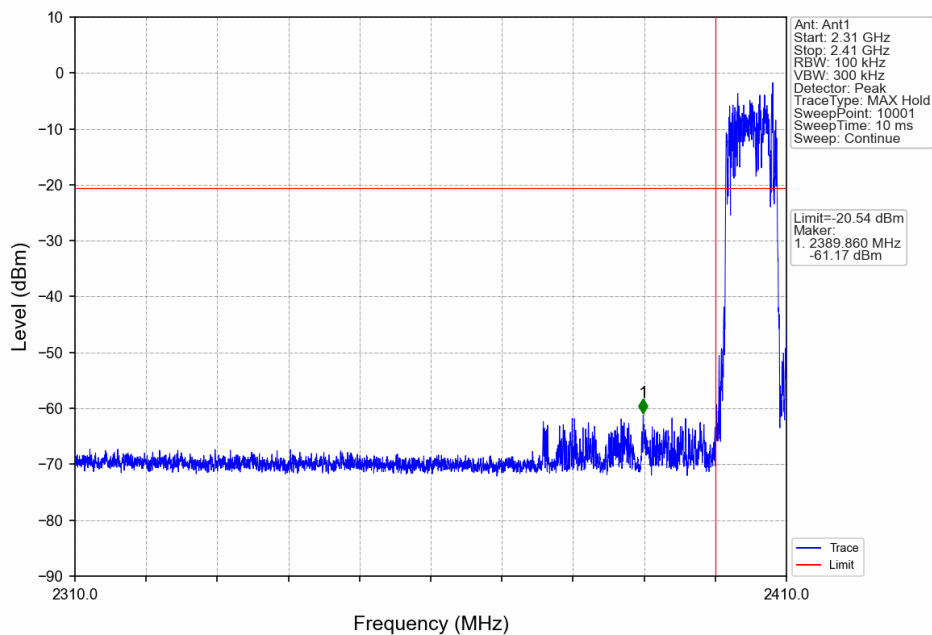
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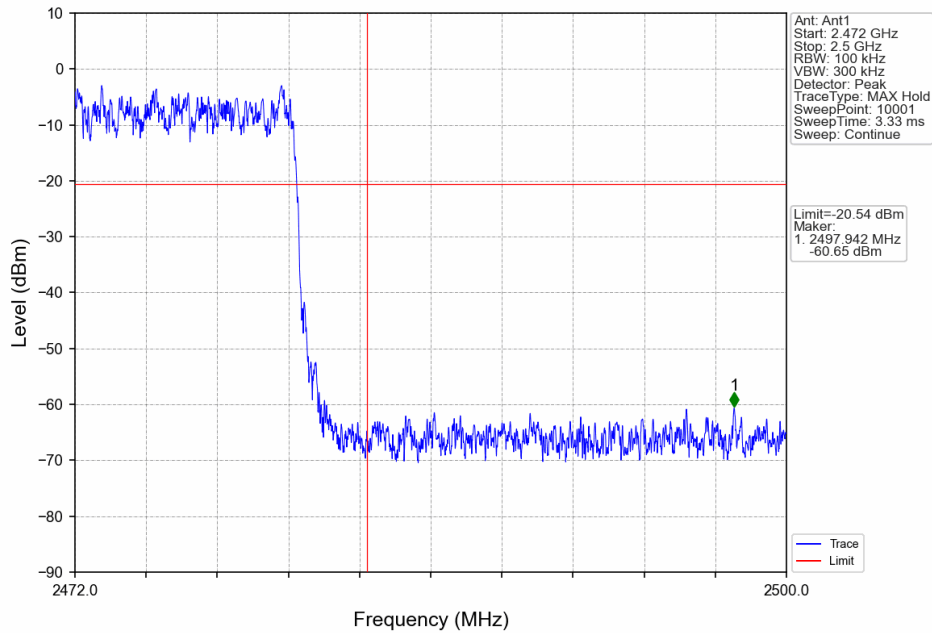
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8DPSK_3DH5_HOPP_Ant1_NTNV



- End of the Report -



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