

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020981AT



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10 Appendix

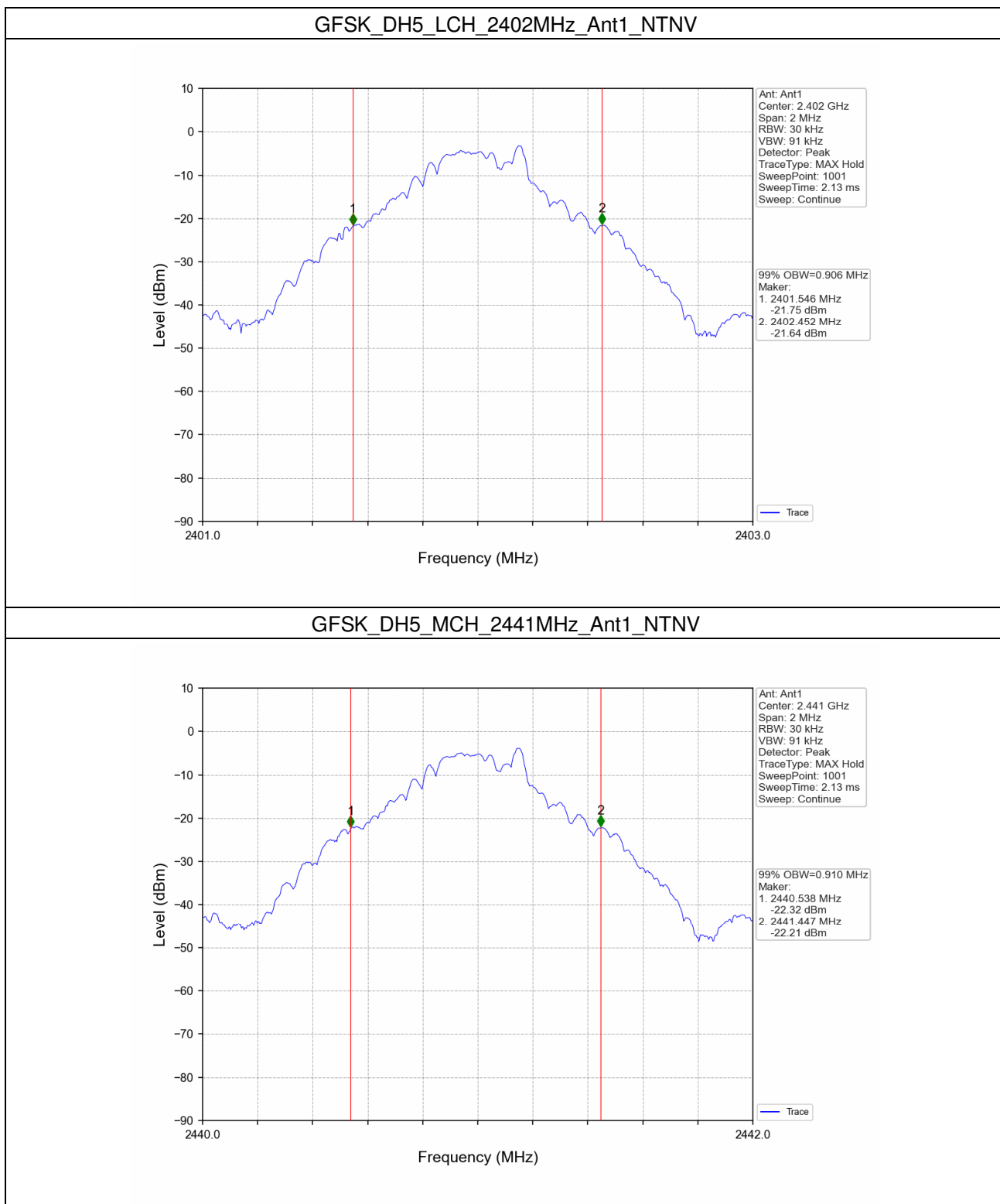
1. Bandwidth

1.1 OBW

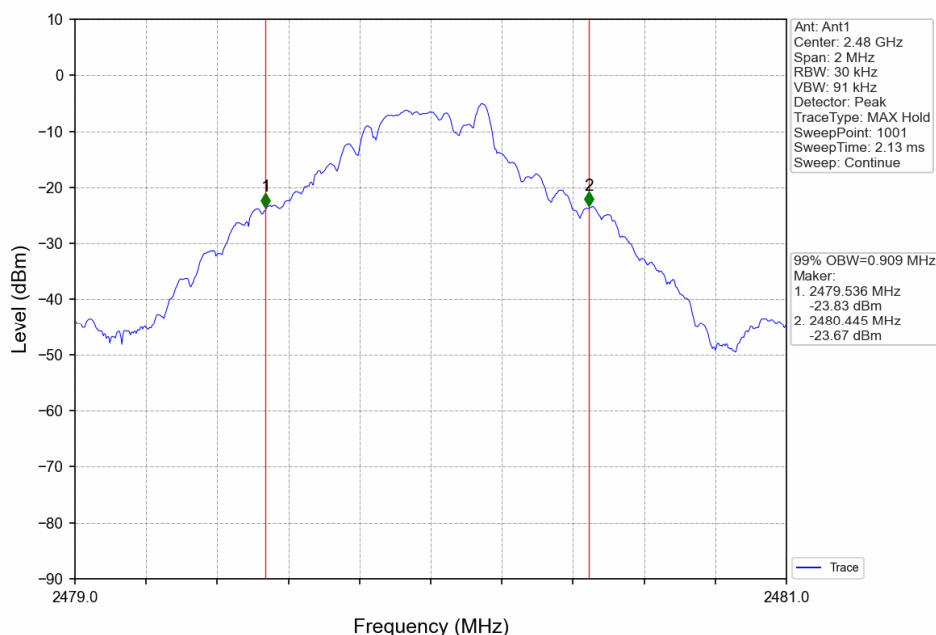
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.906	Pass
		2441	DH5	1	0.910	Pass
		2480	DH5	1	0.909	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.204	Pass
		2441	2DH5	1	1.203	Pass
		2480	2DH5	1	1.203	Pass
8DPSK	SISO	2402	3DH5	1	1.206	Pass
		2441	3DH5	1	1.206	Pass
		2480	3DH5	1	1.206	Pass

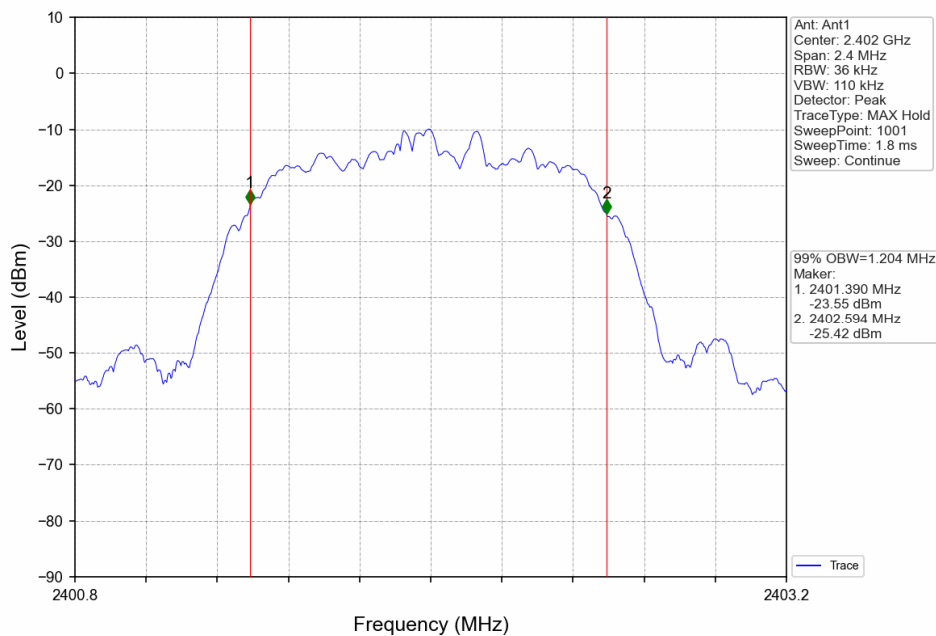
1.1.2 Test Graph



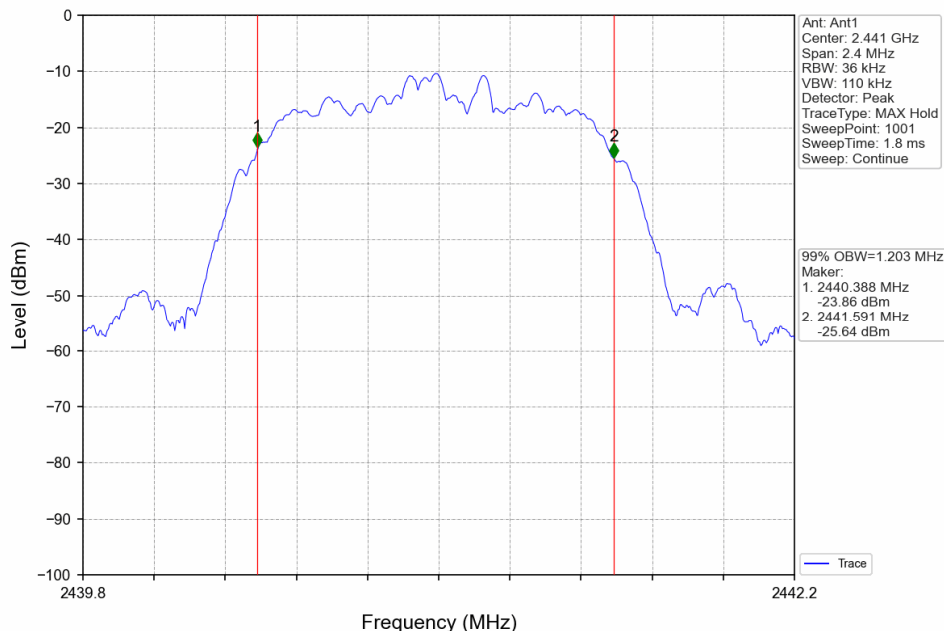
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



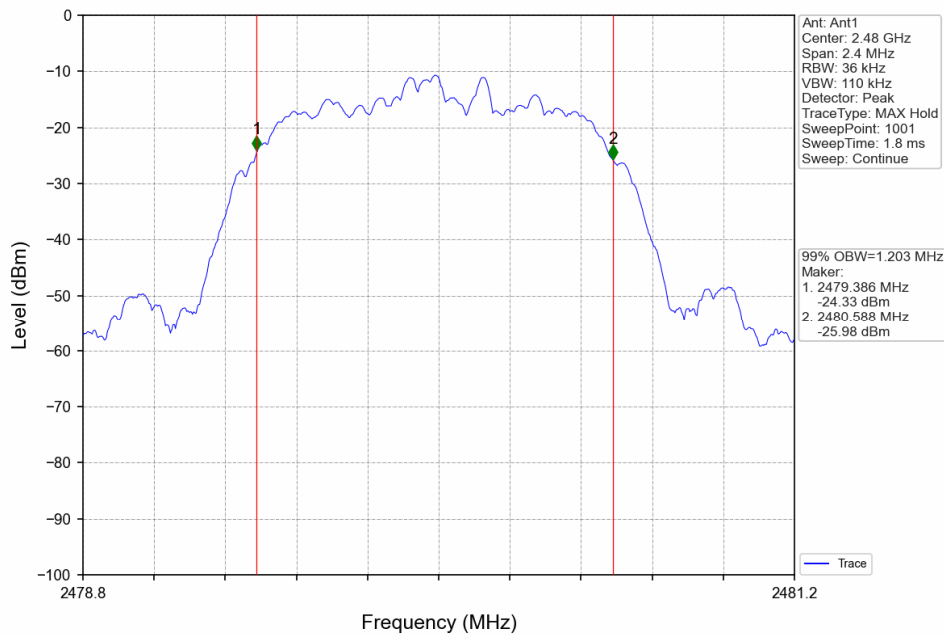
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

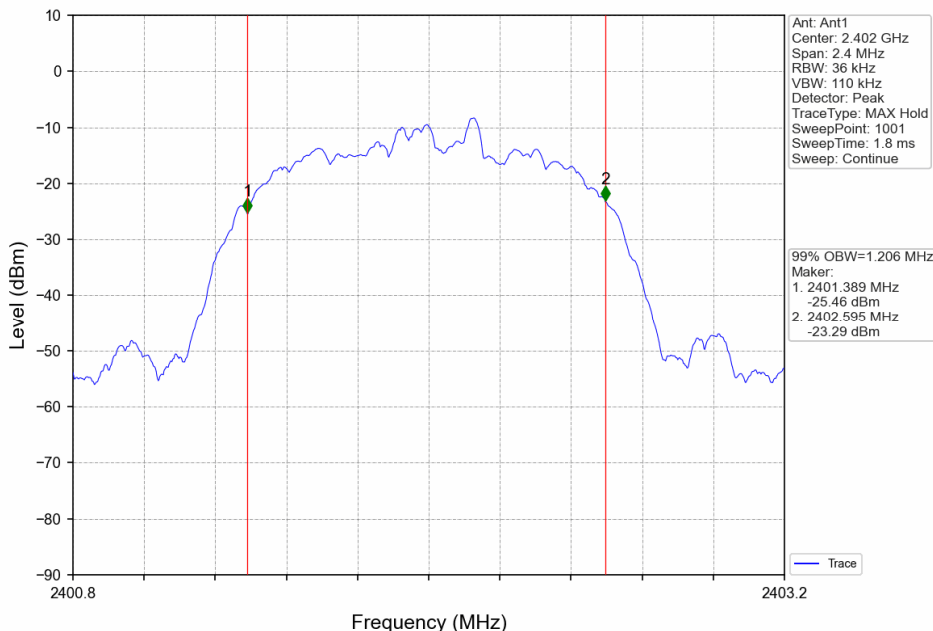


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

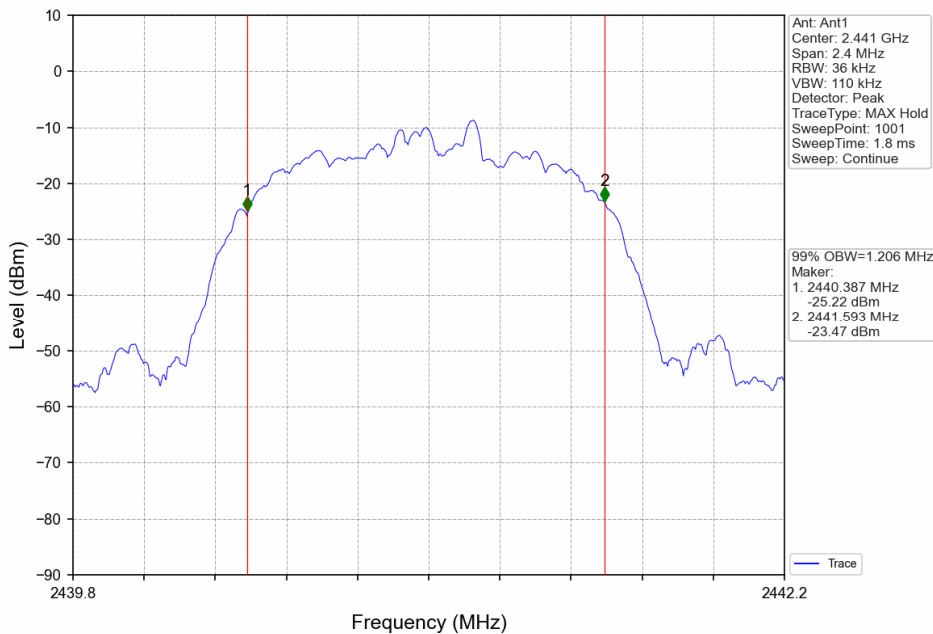


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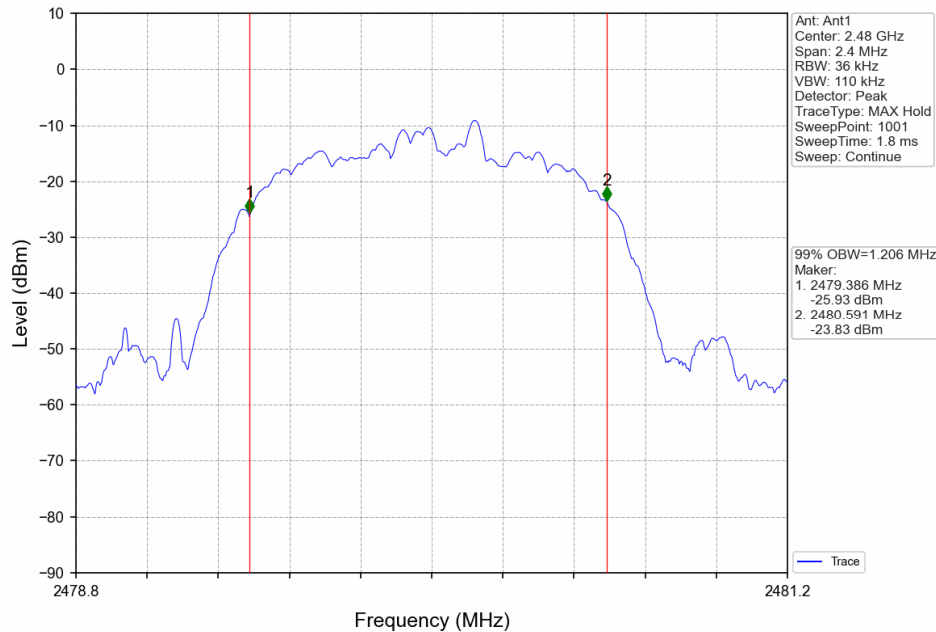
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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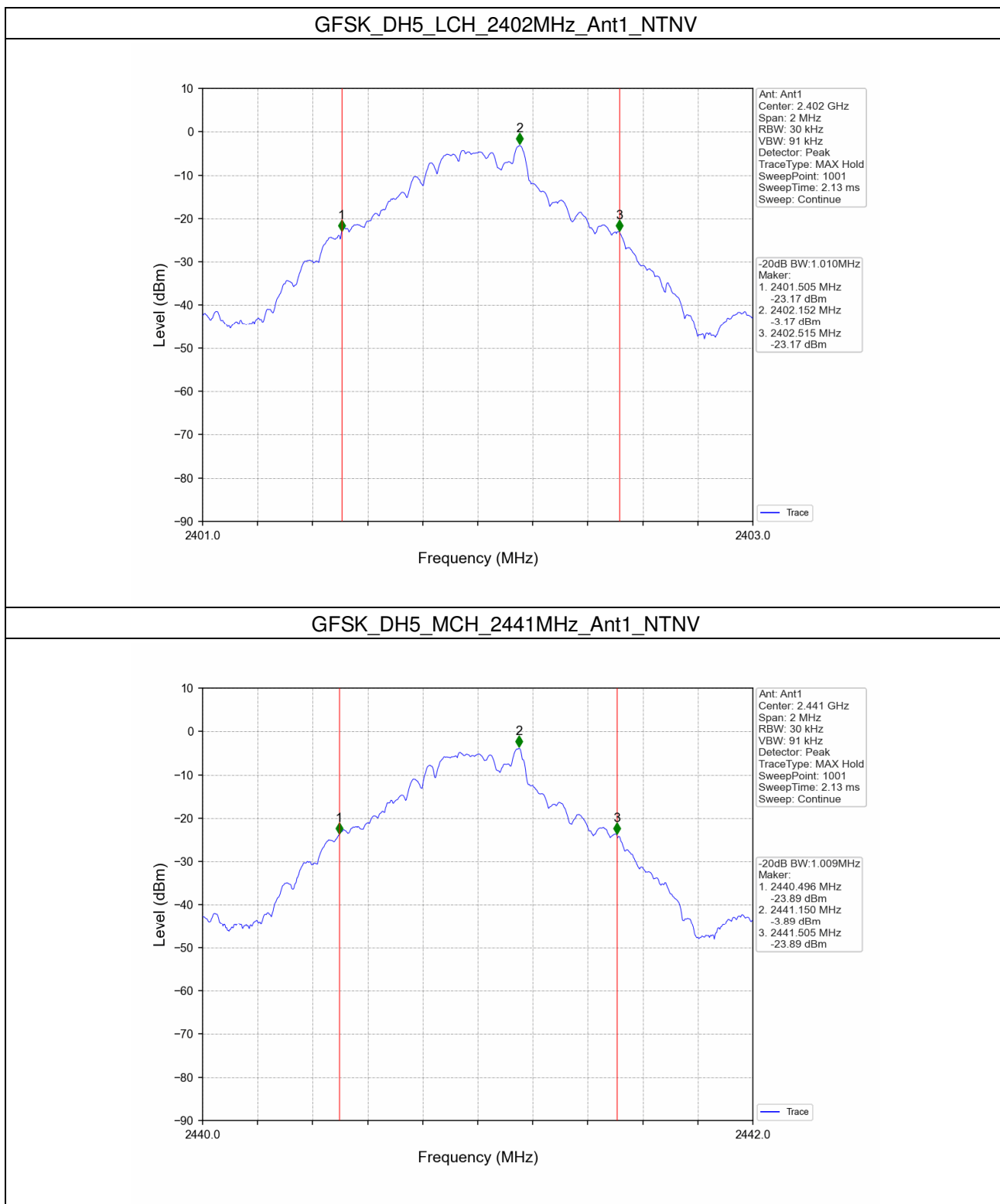
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1.2 20dB BW

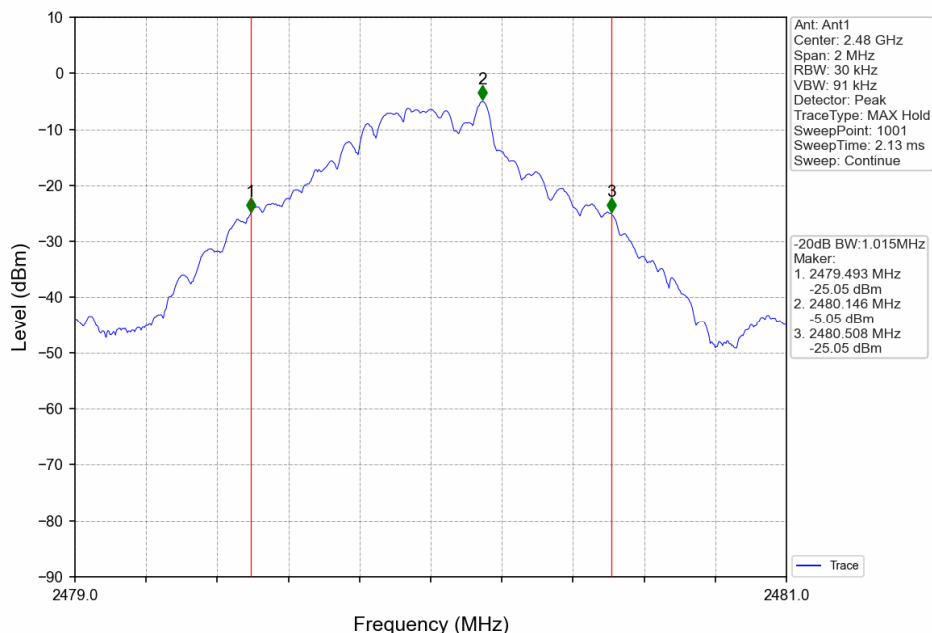
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.010	Pass
		2441	DH5	1	1.009	Pass
		2480	DH5	1	1.015	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.359	Pass
		2441	2DH5	1	1.360	Pass
		2480	2DH5	1	1.360	Pass
8DPSK	SISO	2402	3DH5	1	1.319	Pass
		2441	3DH5	1	1.319	Pass
		2480	3DH5	1	1.323	Pass

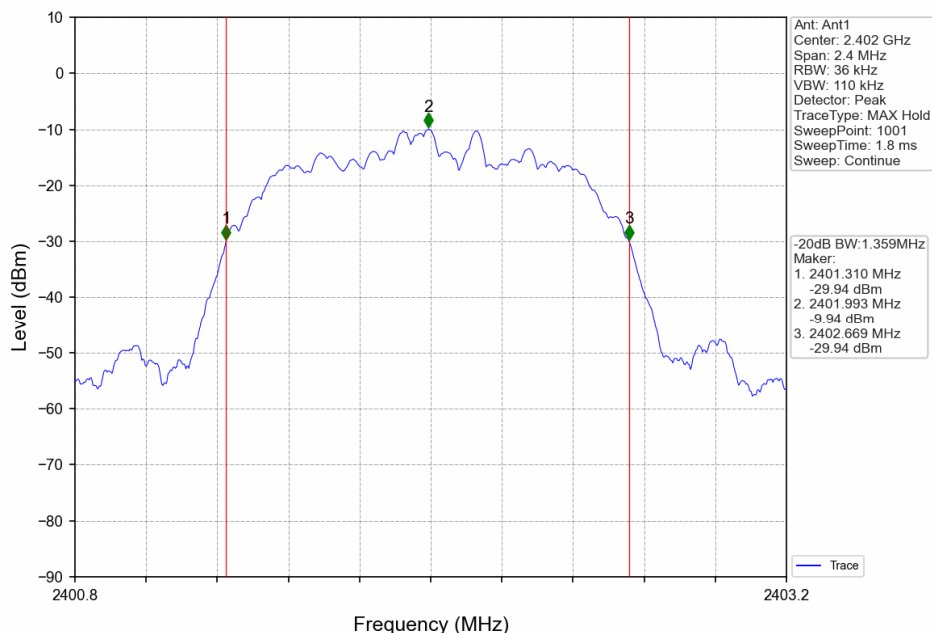
1.2.2 Test Graph



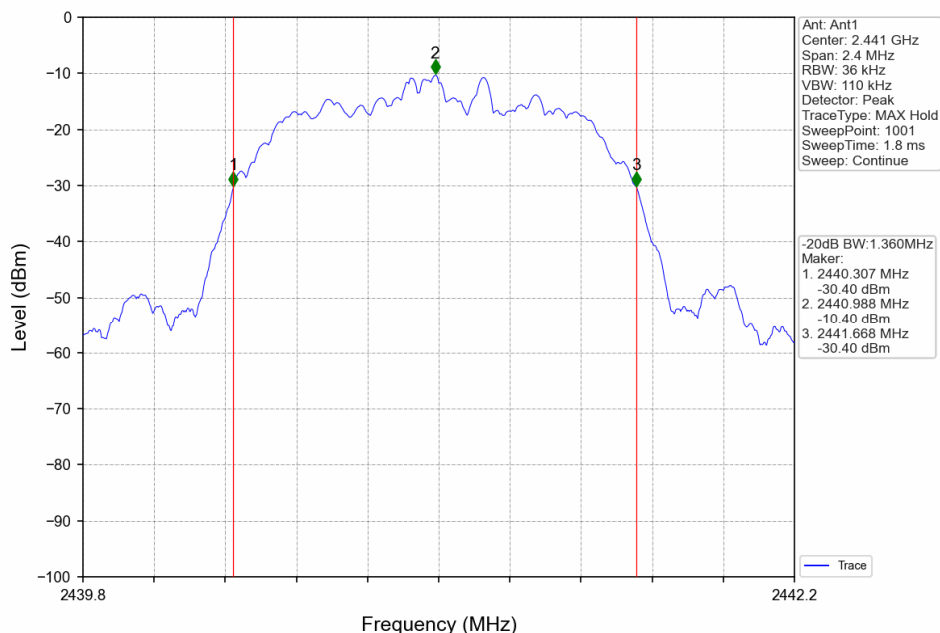
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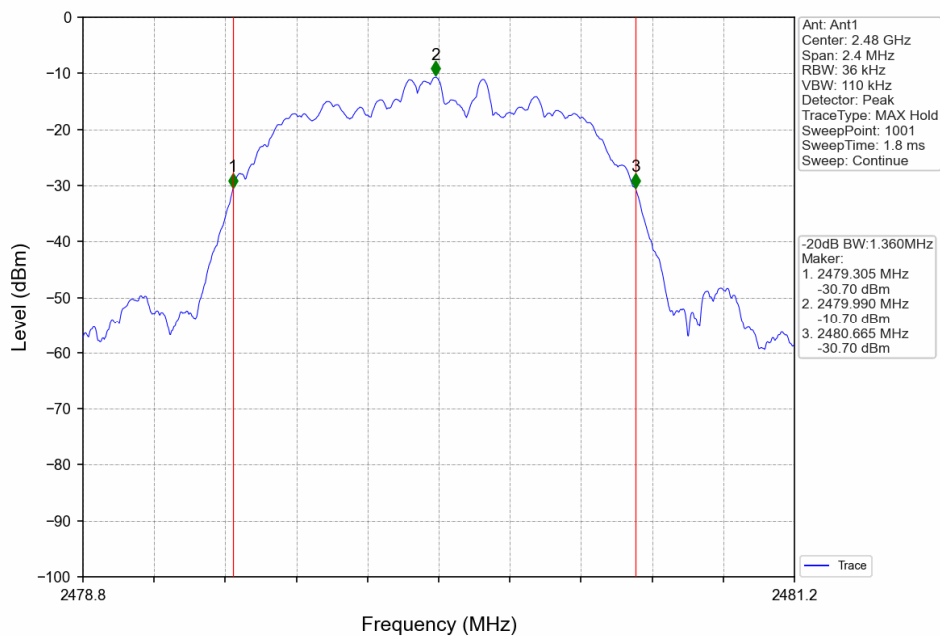
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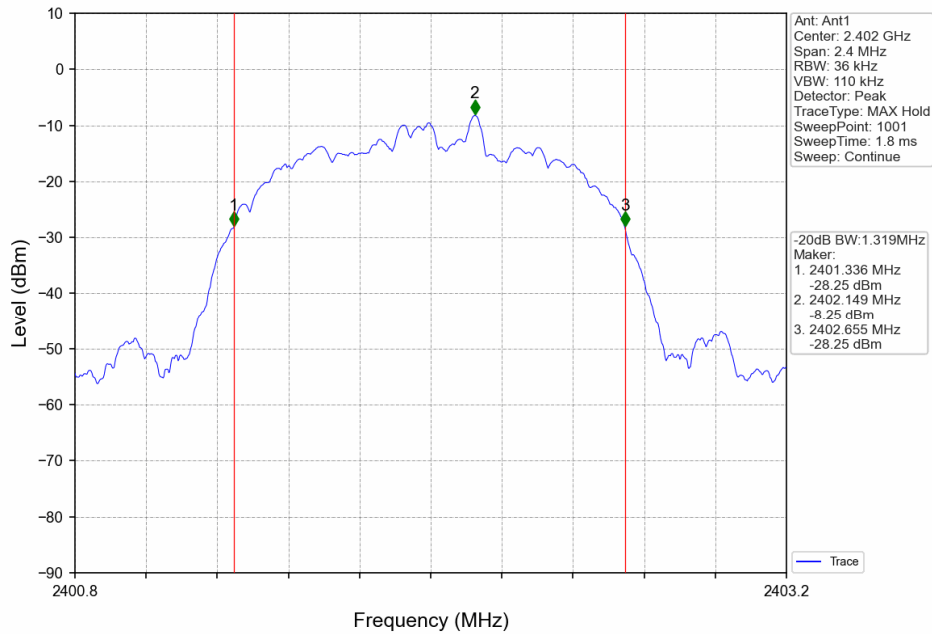
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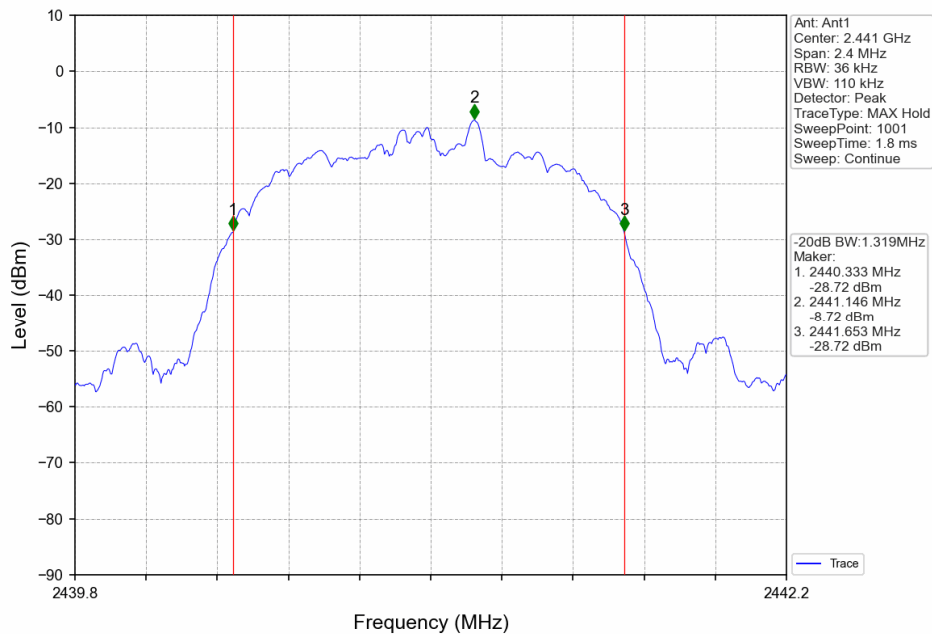
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



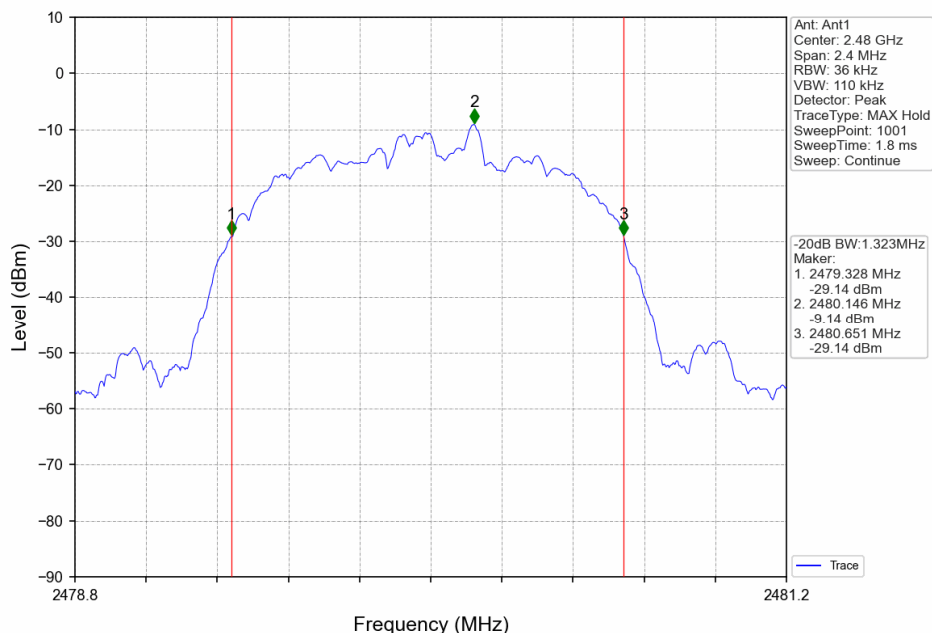
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	-2.08	<=20.97	Pass
		2441	DH5	-2.73	<=20.97	Pass
		2480	DH5	-3.97	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	-5.73	<=20.97	Pass
		2441	2DH5	-6.16	<=20.97	Pass
		2480	2DH5	-6.62	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-5.00	<=20.97	Pass
		2441	3DH5	-5.41	<=20.97	Pass
		2480	3DH5	-5.83	<=20.97	Pass

3. Unwanted Emissions In Non-restricted Frequency Bands

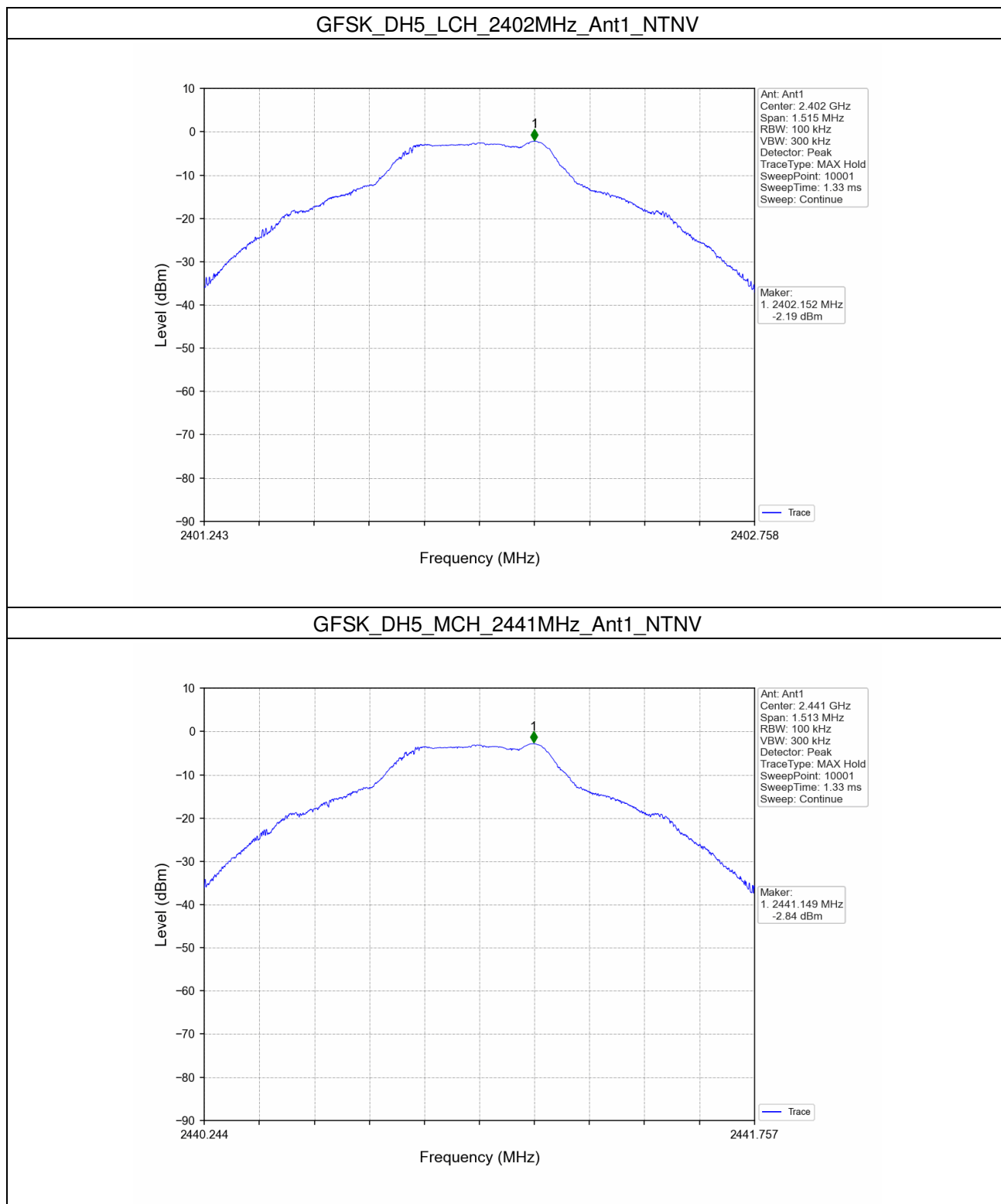
3.1 Ref

3.1.1 Test Result

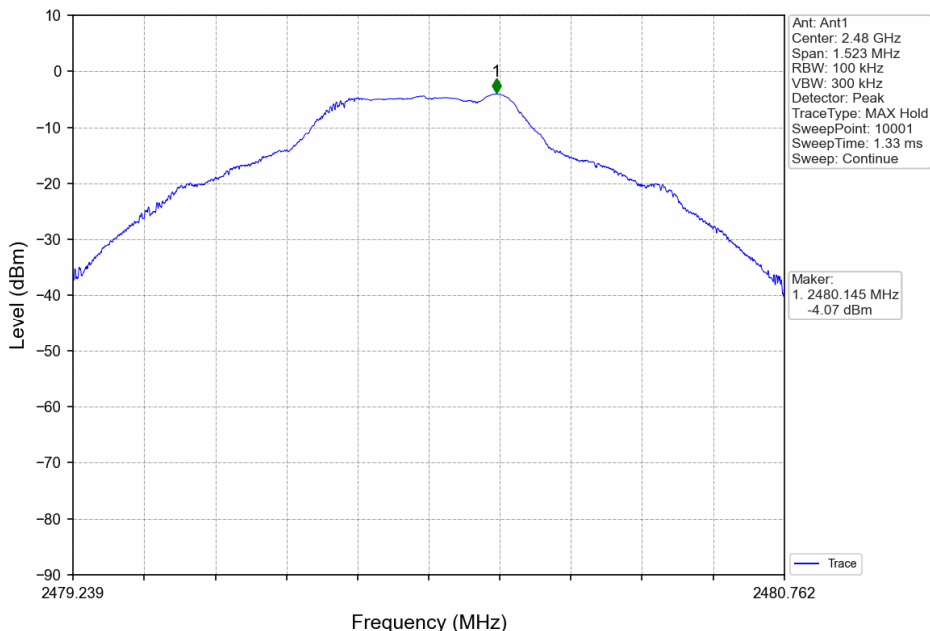
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-2.19
		2441	DH5	1	-2.84
		2480	DH5	1	-4.07
Pi/4DQPSK	SISO	2402	2DH5	1	-8.32
		2441	2DH5	1	-8.77
		2480	2DH5	1	-9.23
8DPSK	SISO	2402	3DH5	1	-7.80
		2441	3DH5	1	-8.24
		2480	3DH5	1	-8.67

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.

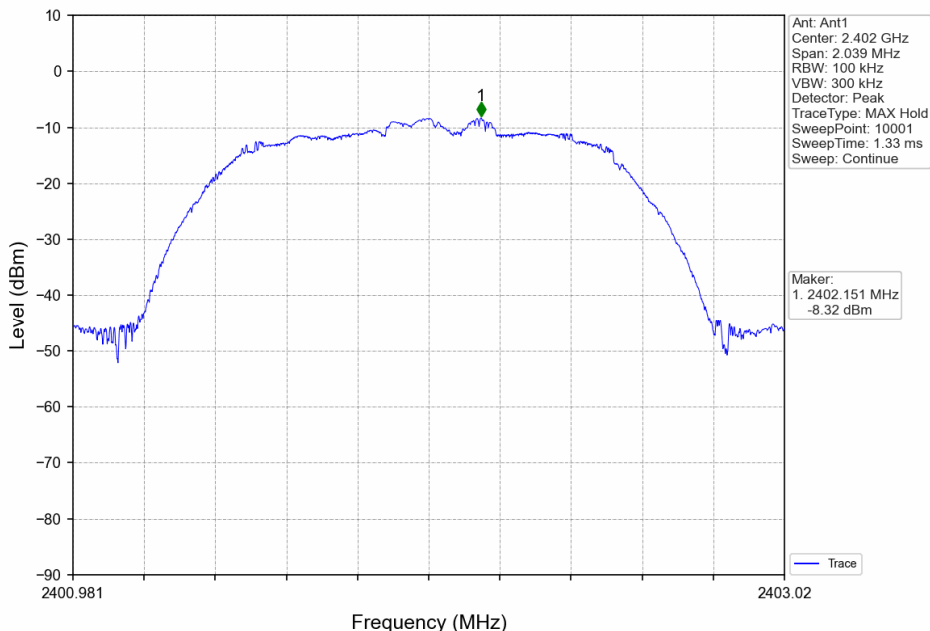
3.1.2 Test Graph



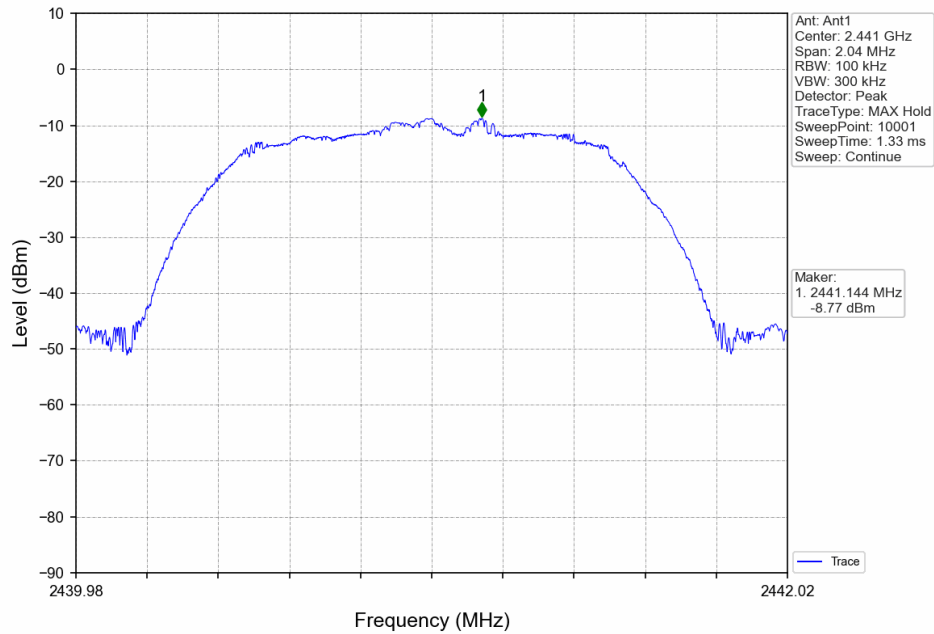
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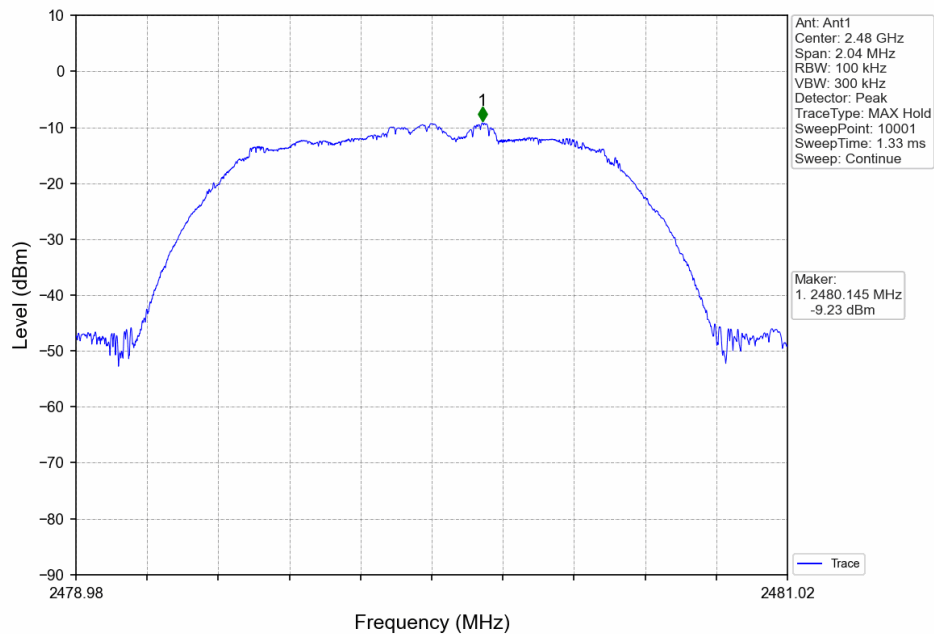
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



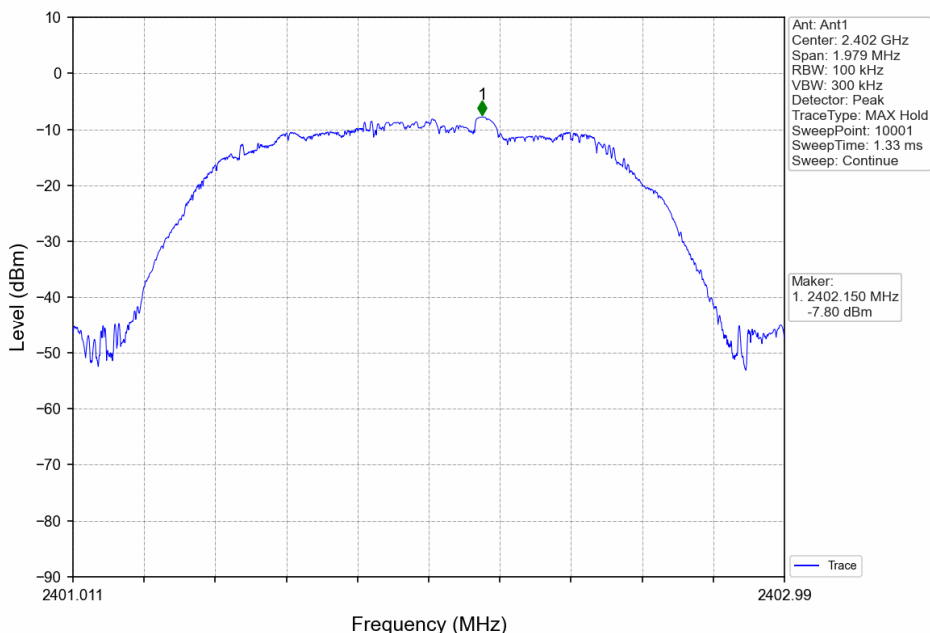
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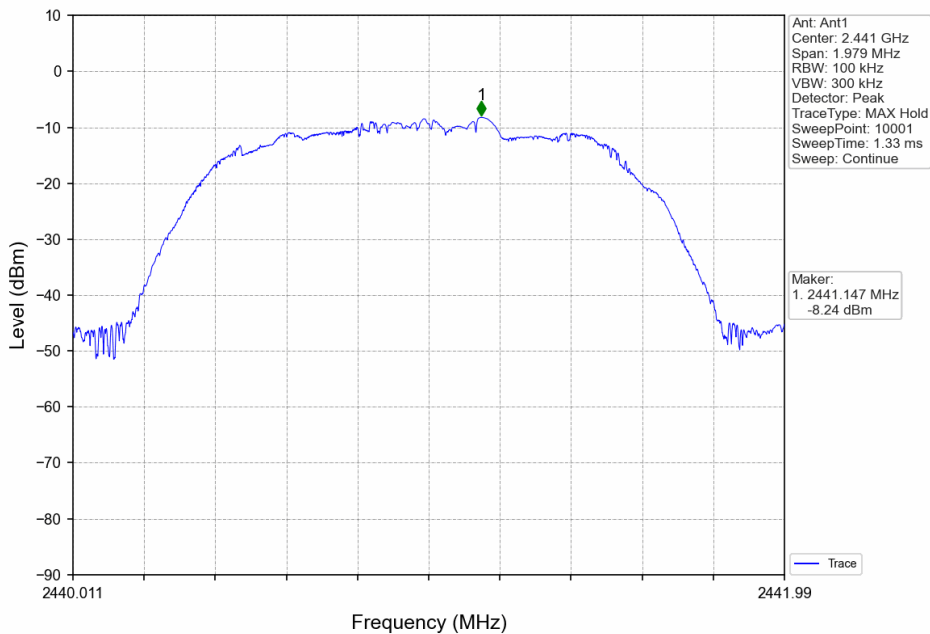
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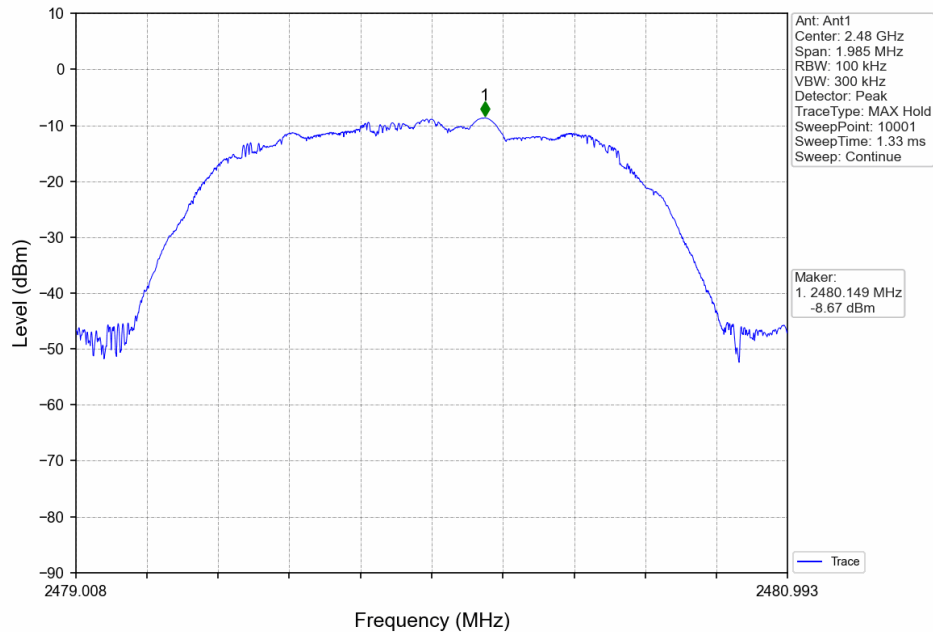
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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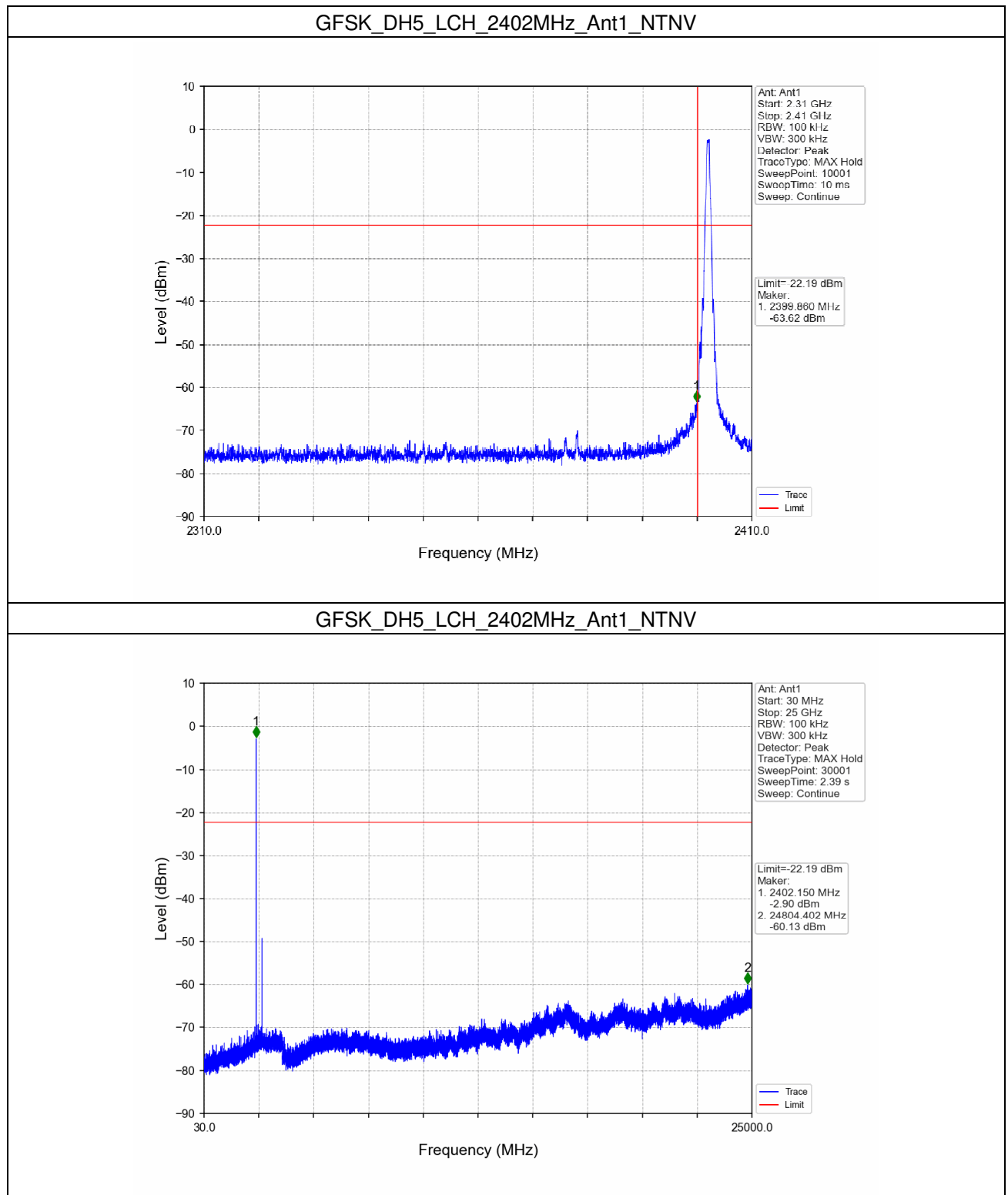
3.2 CSE

3.2.1 Test Result

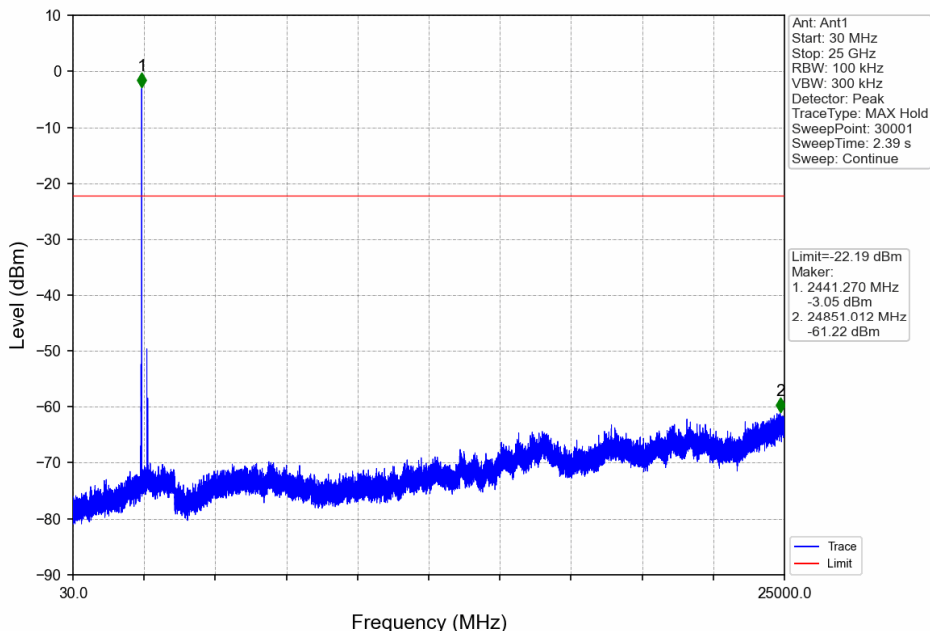
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.19	-22.19	Pass
		2441	DH5	1	-2.19	-22.19	Pass
		2480	DH5	1	-2.19	-22.19	Pass
		HOPP	DH5	1	-2.19	-22.19	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-8.32	-28.32	Pass
		2441	2DH5	1	-8.32	-28.32	Pass
		2480	2DH5	1	-8.32	-28.32	Pass
		HOPP	2DH5	1	-8.32	-28.32	Pass
8DPSK	SISO	2402	3DH5	1	-7.80	-27.80	Pass
		2441	3DH5	1	-7.80	-27.80	Pass
		2480	3DH5	1	-7.80	-27.80	Pass
		HOPP	3DH5	1	-7.80	-27.80	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.

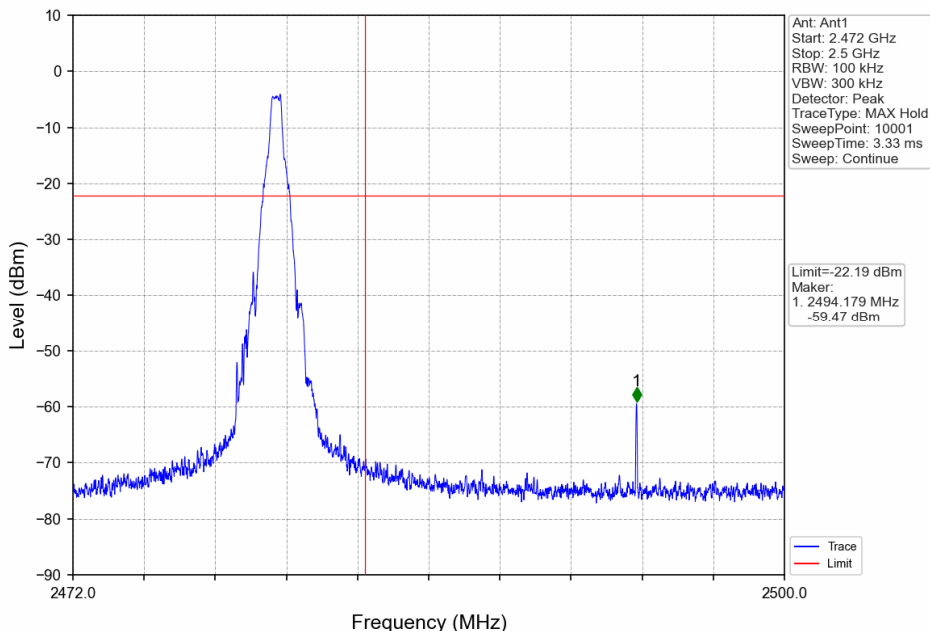
3.2.2 Test Graph



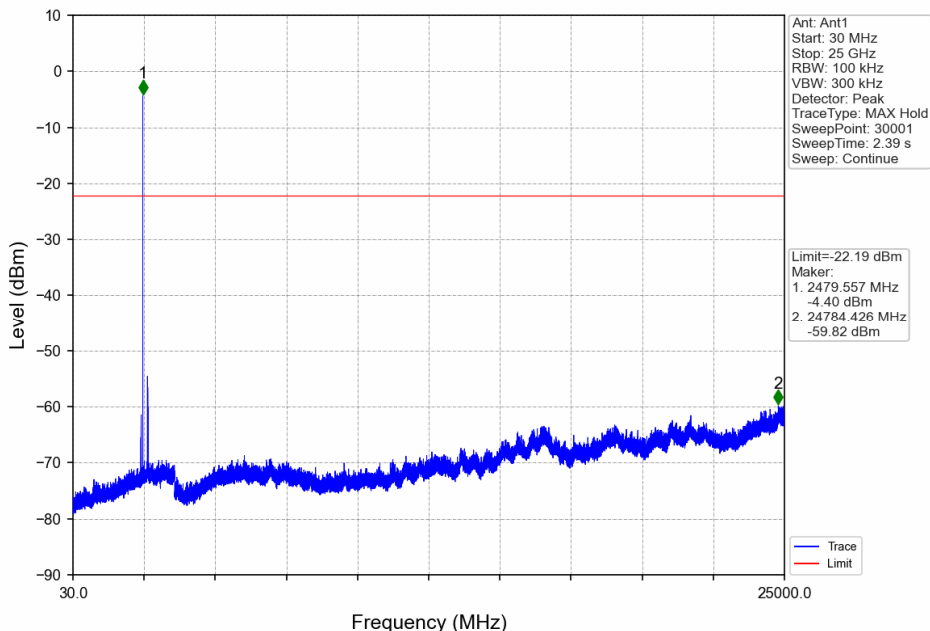
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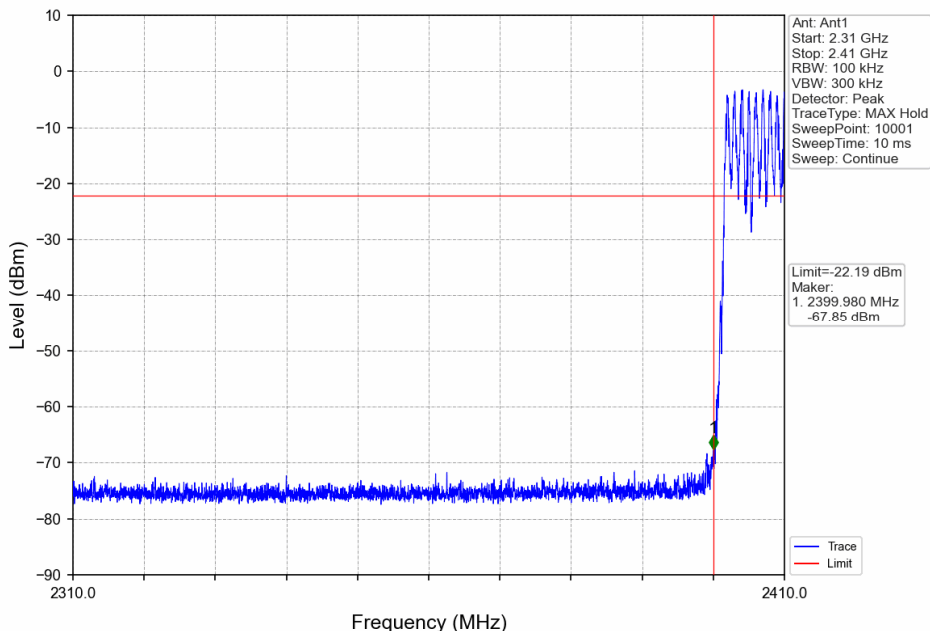
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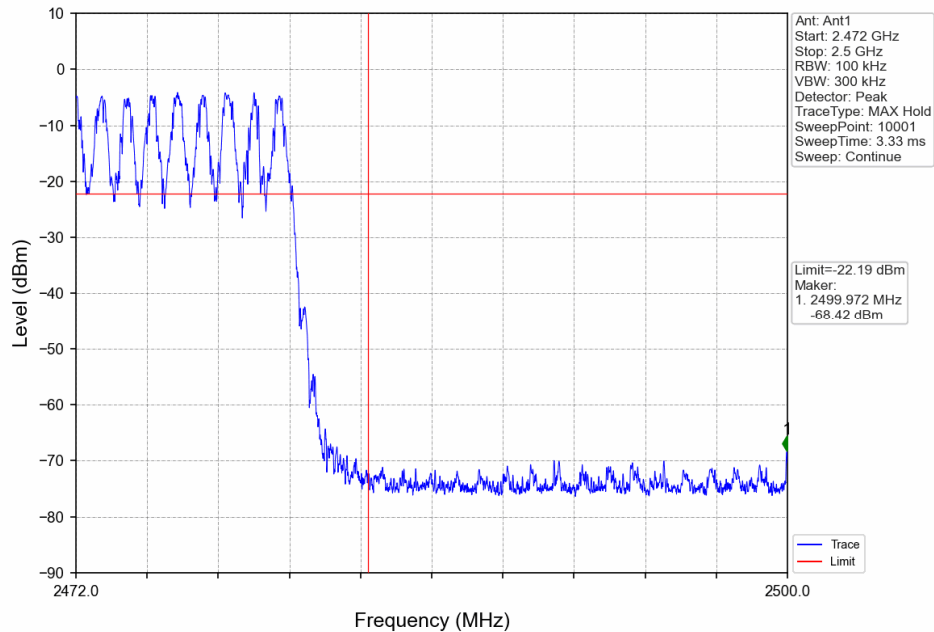
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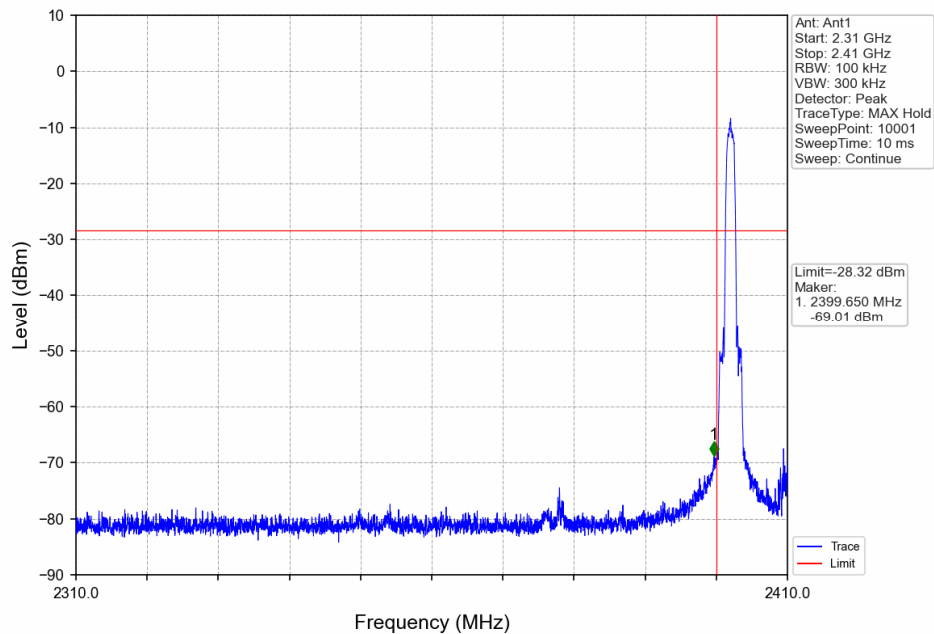
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GFSK_DH5_HOPP_Ant1_NTNV



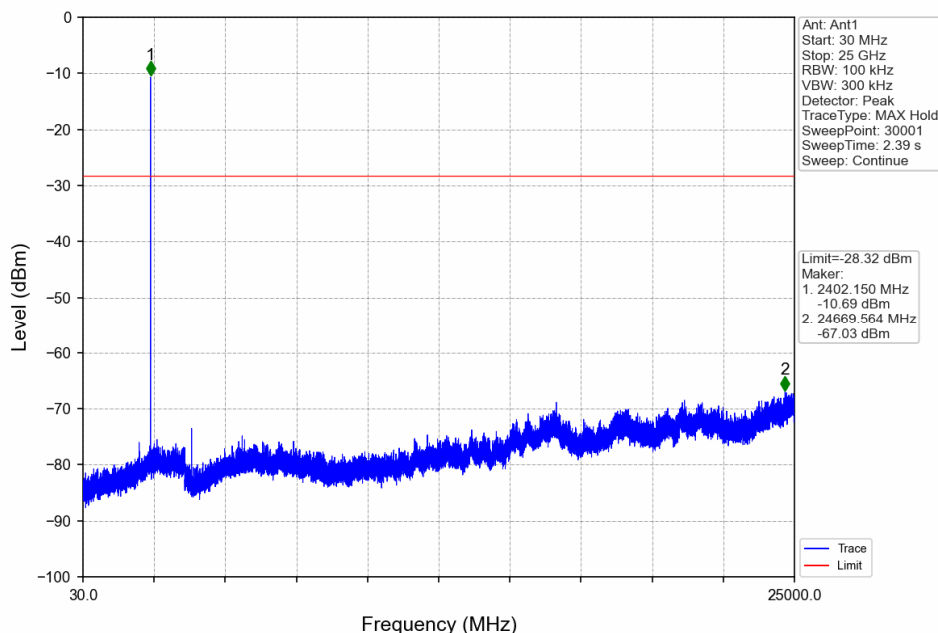
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



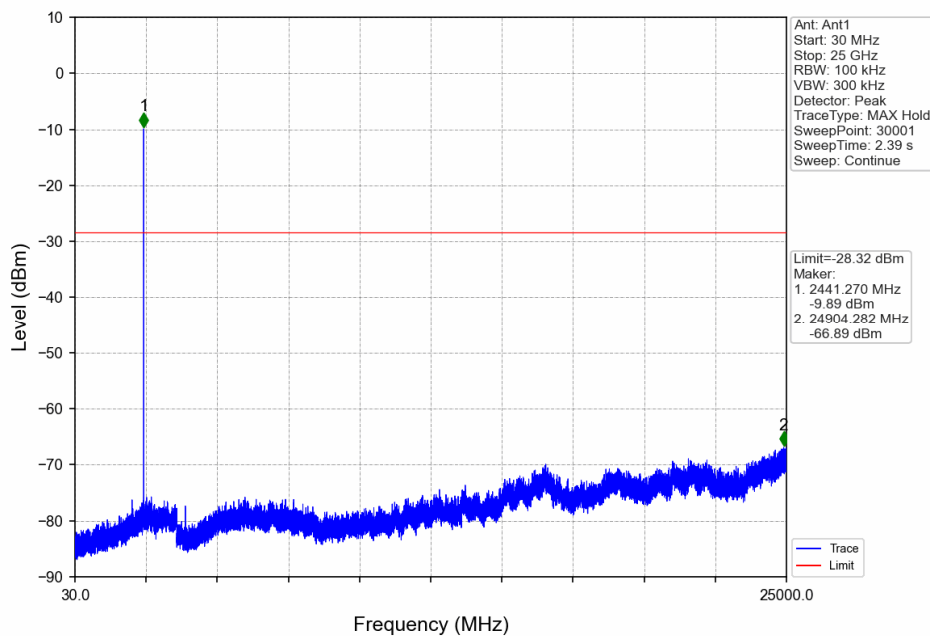
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

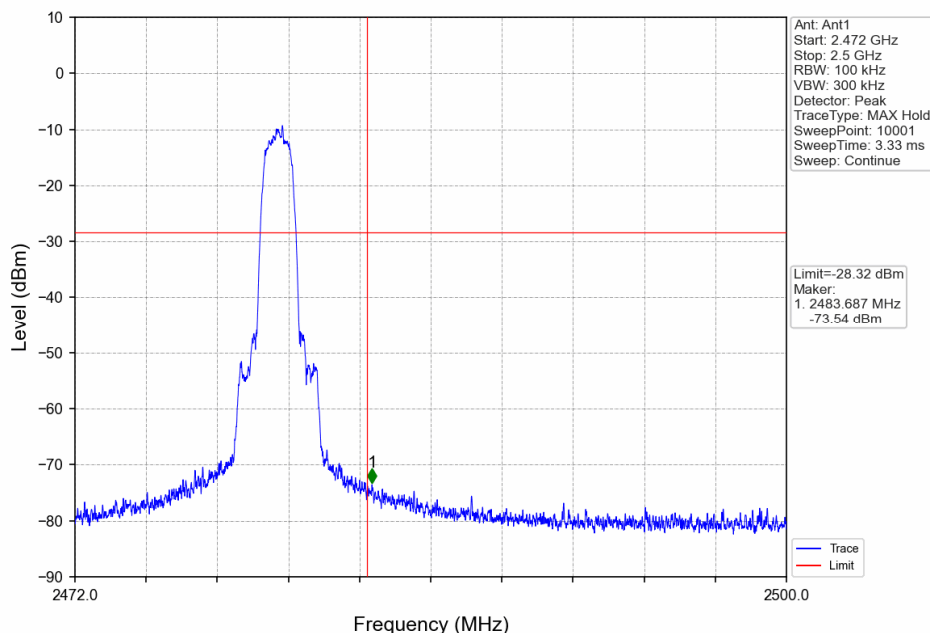


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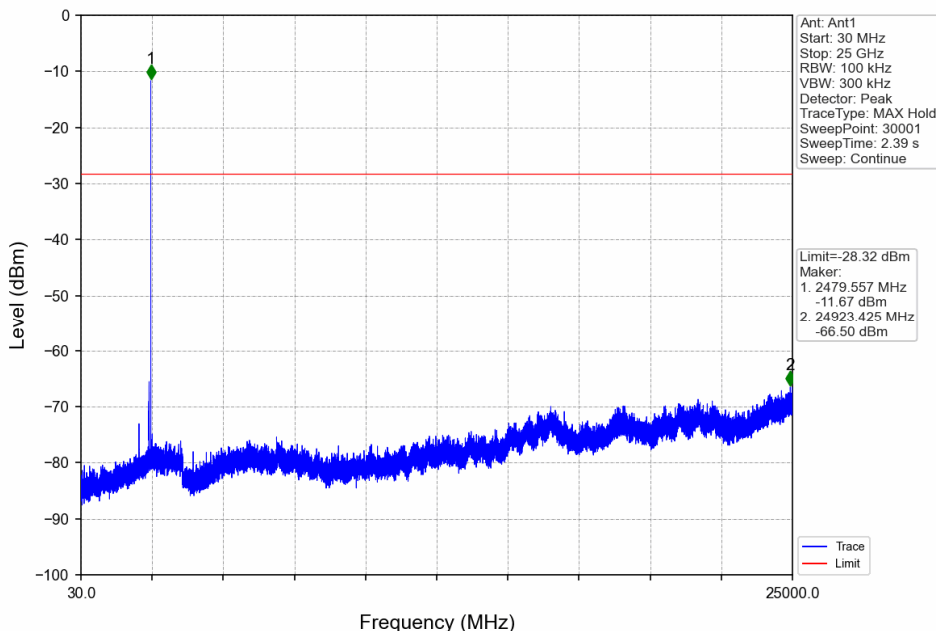


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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

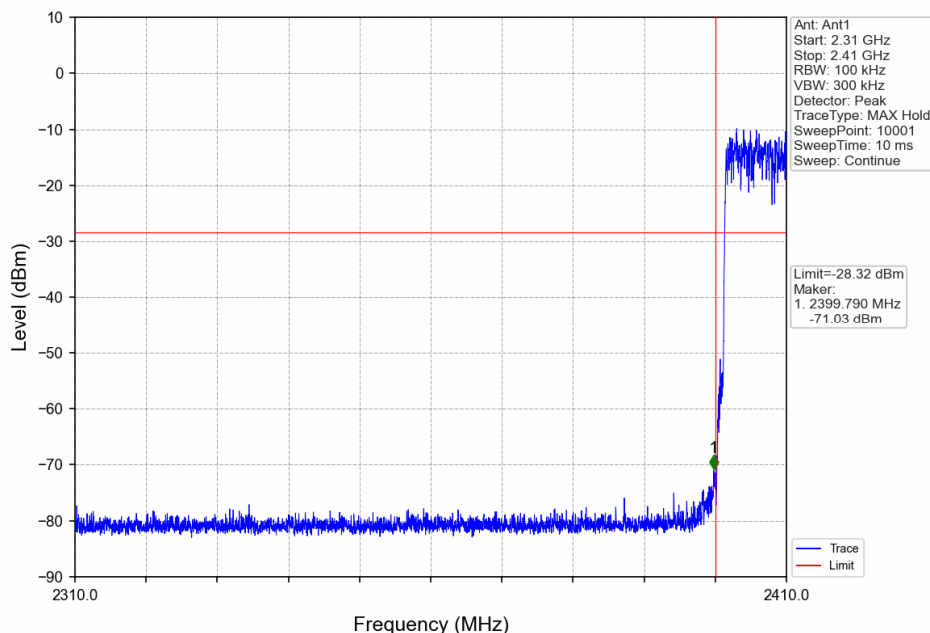


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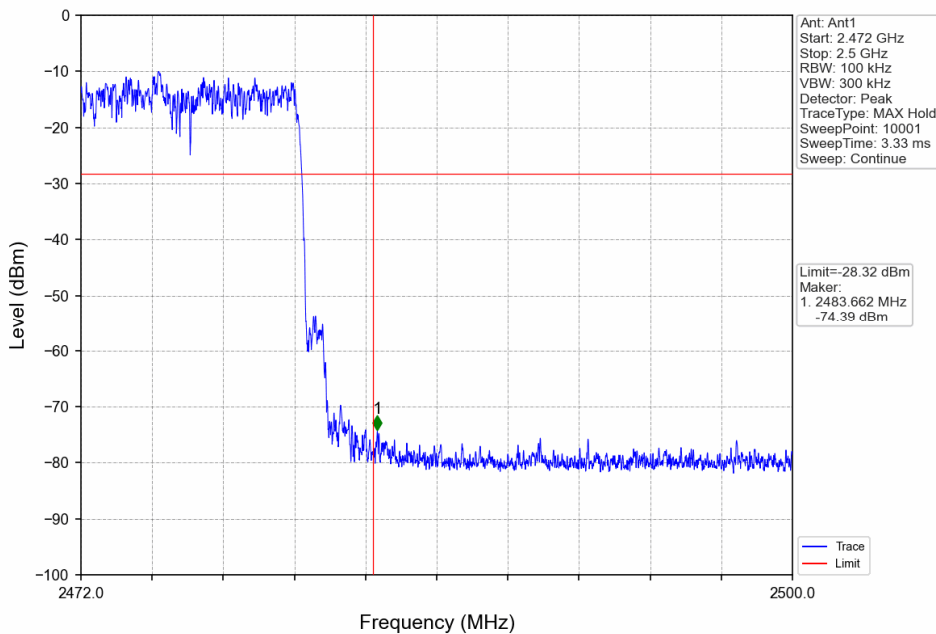


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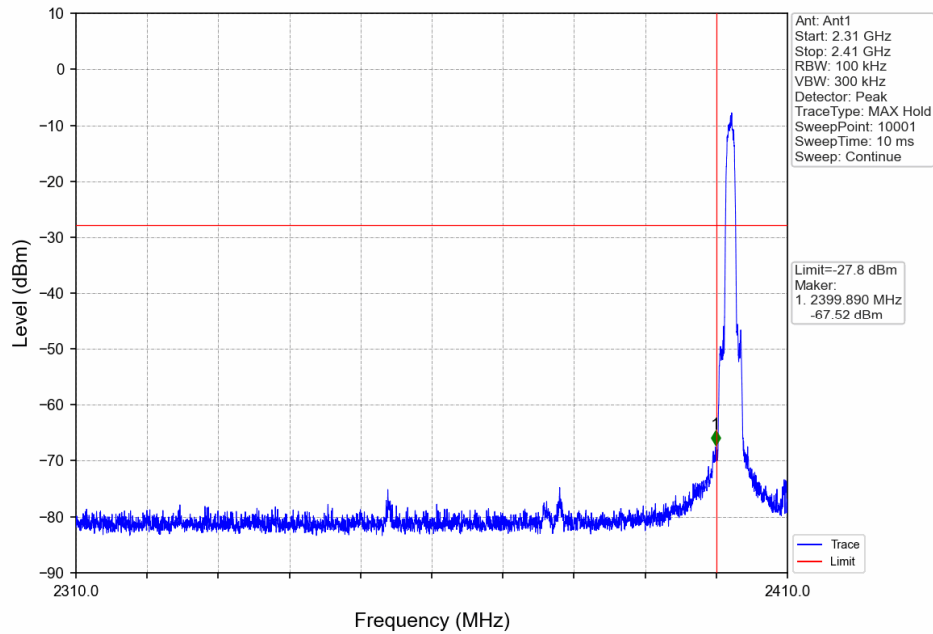
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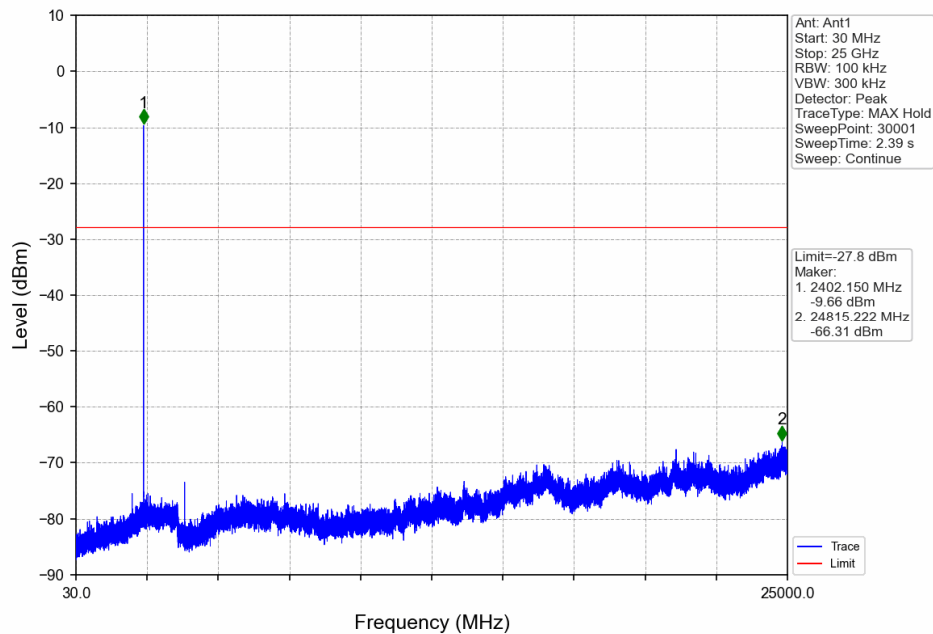
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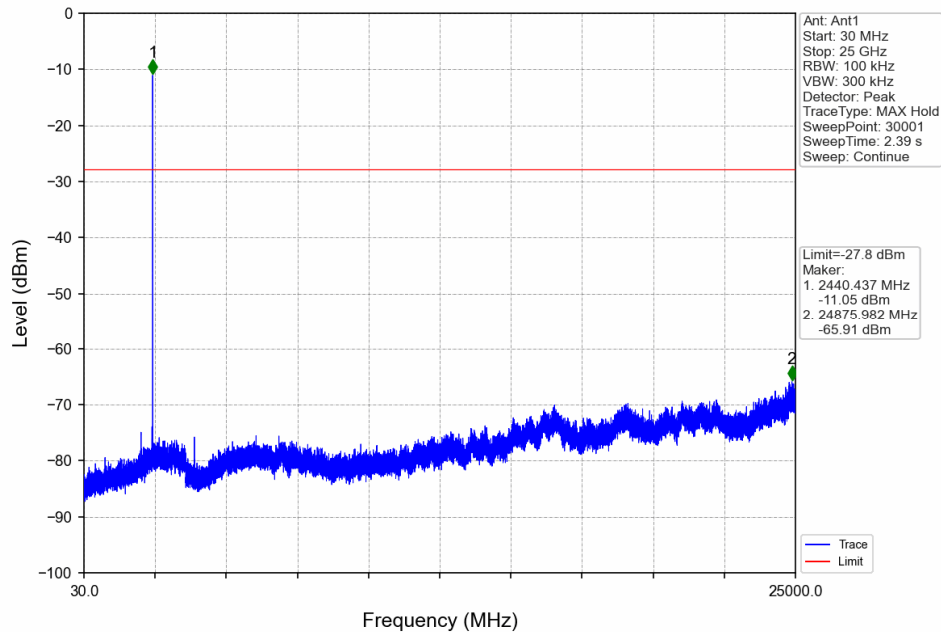
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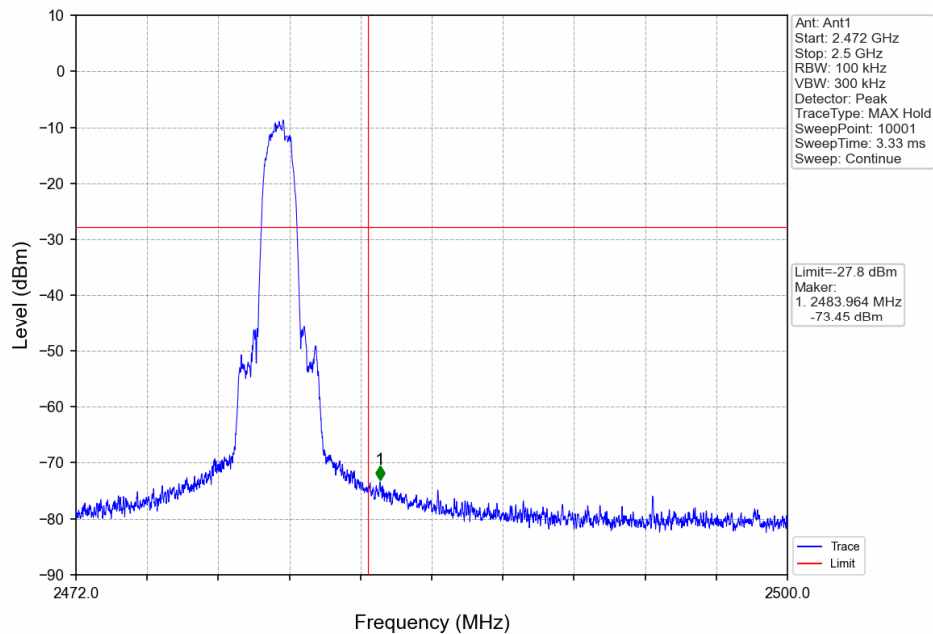
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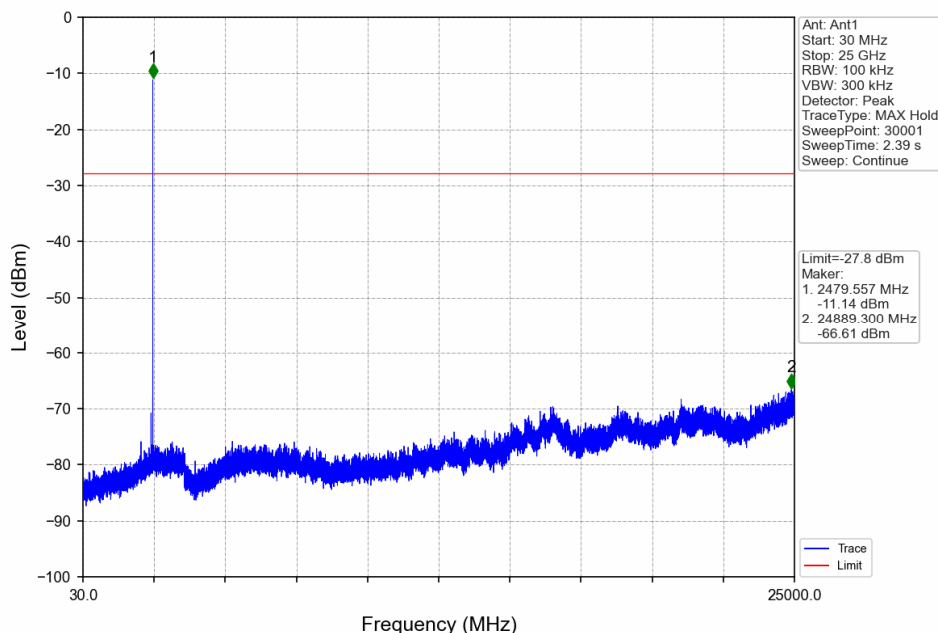
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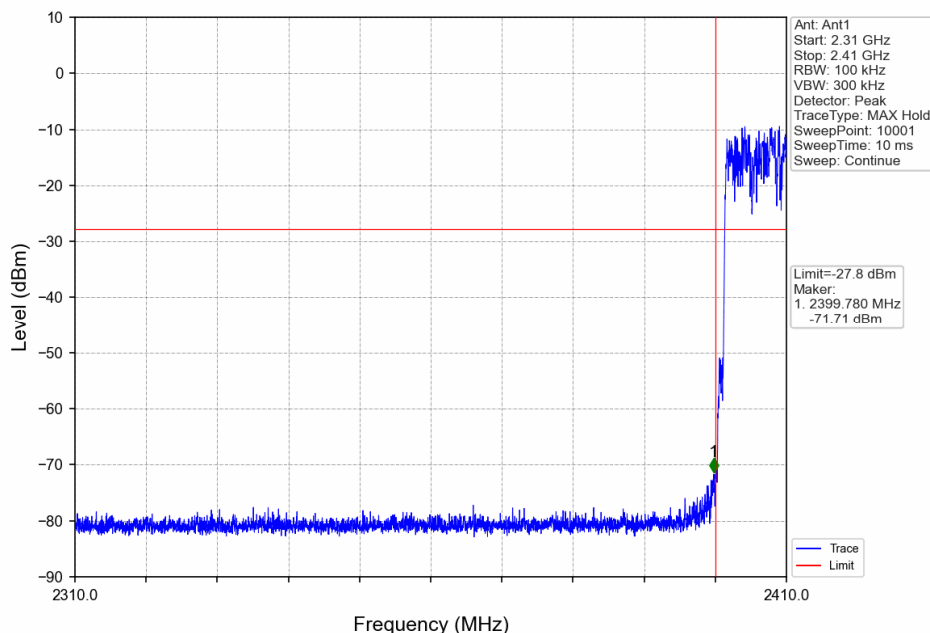
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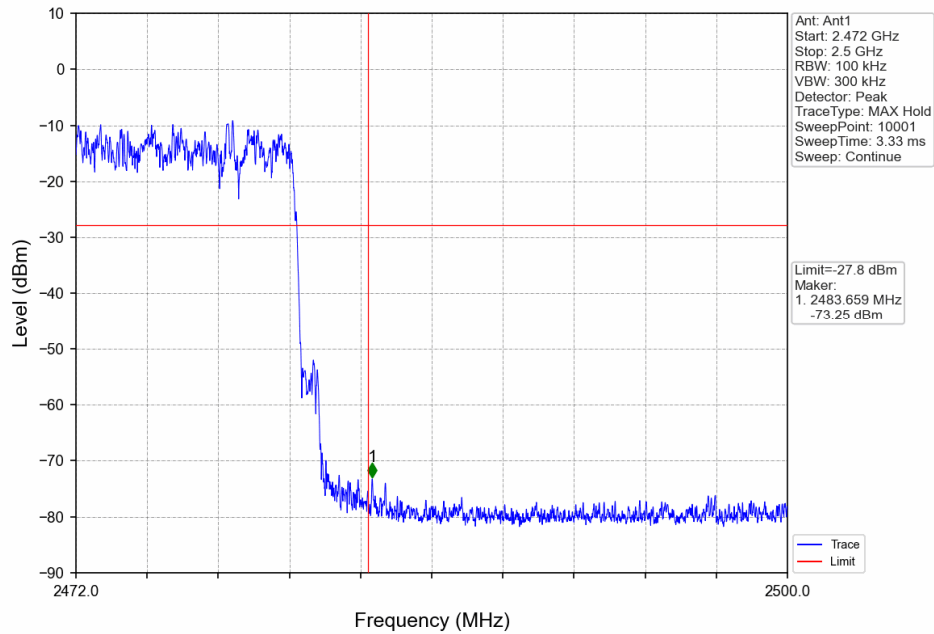
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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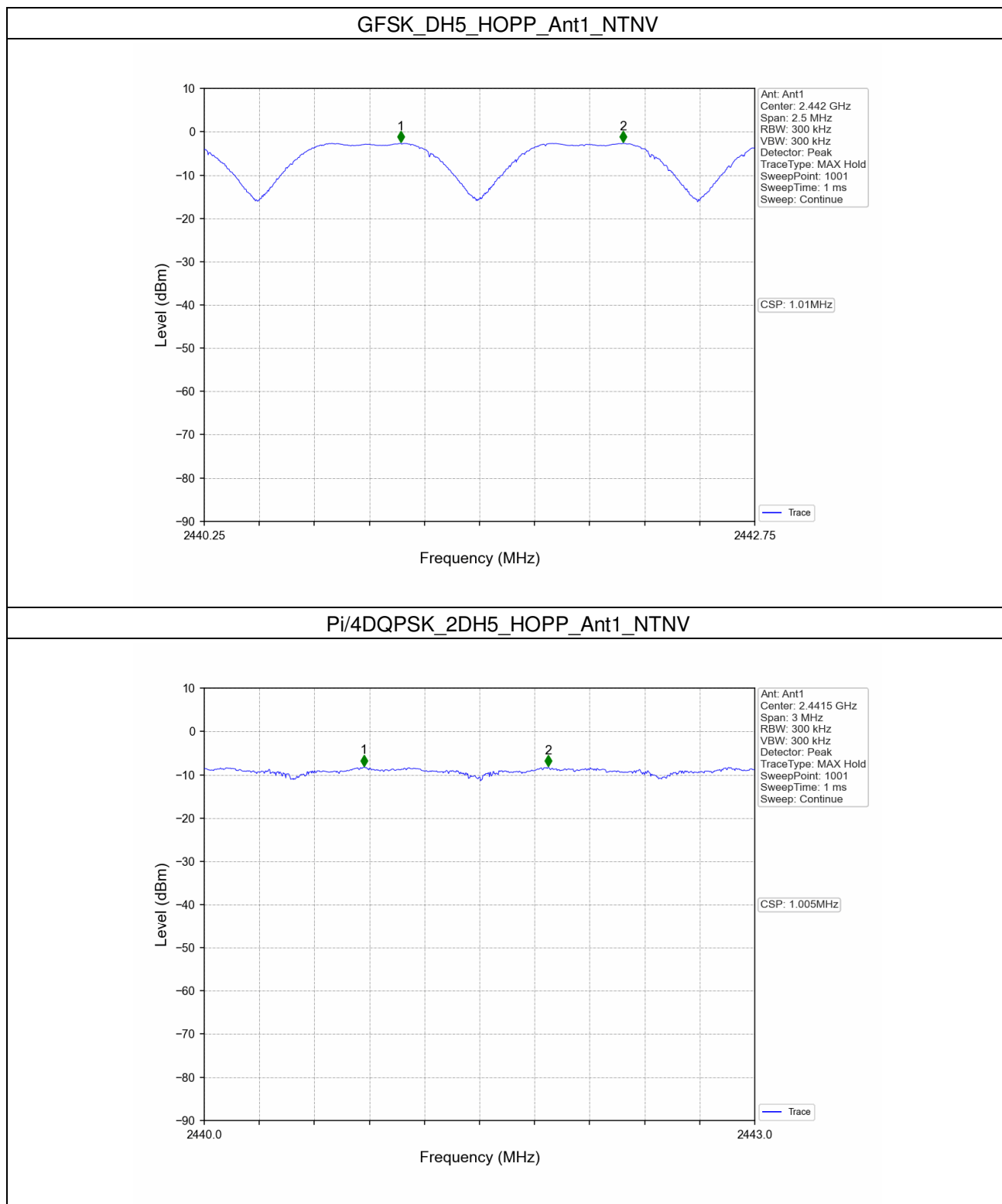
5. Carrier Frequency Separation

5.1 Ant1

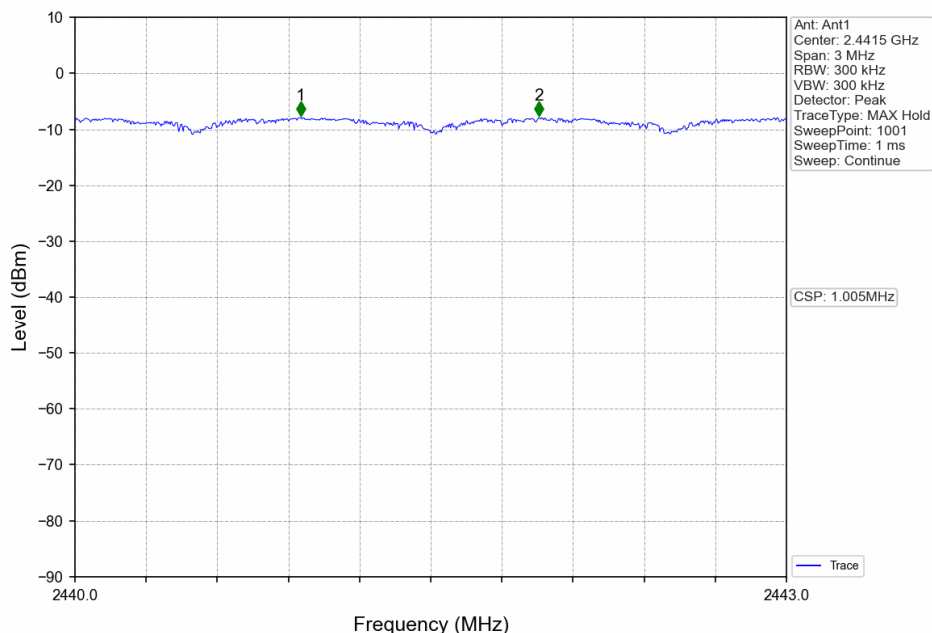
5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.010	1.010	≥ 0.673	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.005	1.360	≥ 0.907	Pass
8DPSK	SISO	HOPP	3DH5	1.005	1.319	≥ 0.879	Pass

5.1.2 Test Graph



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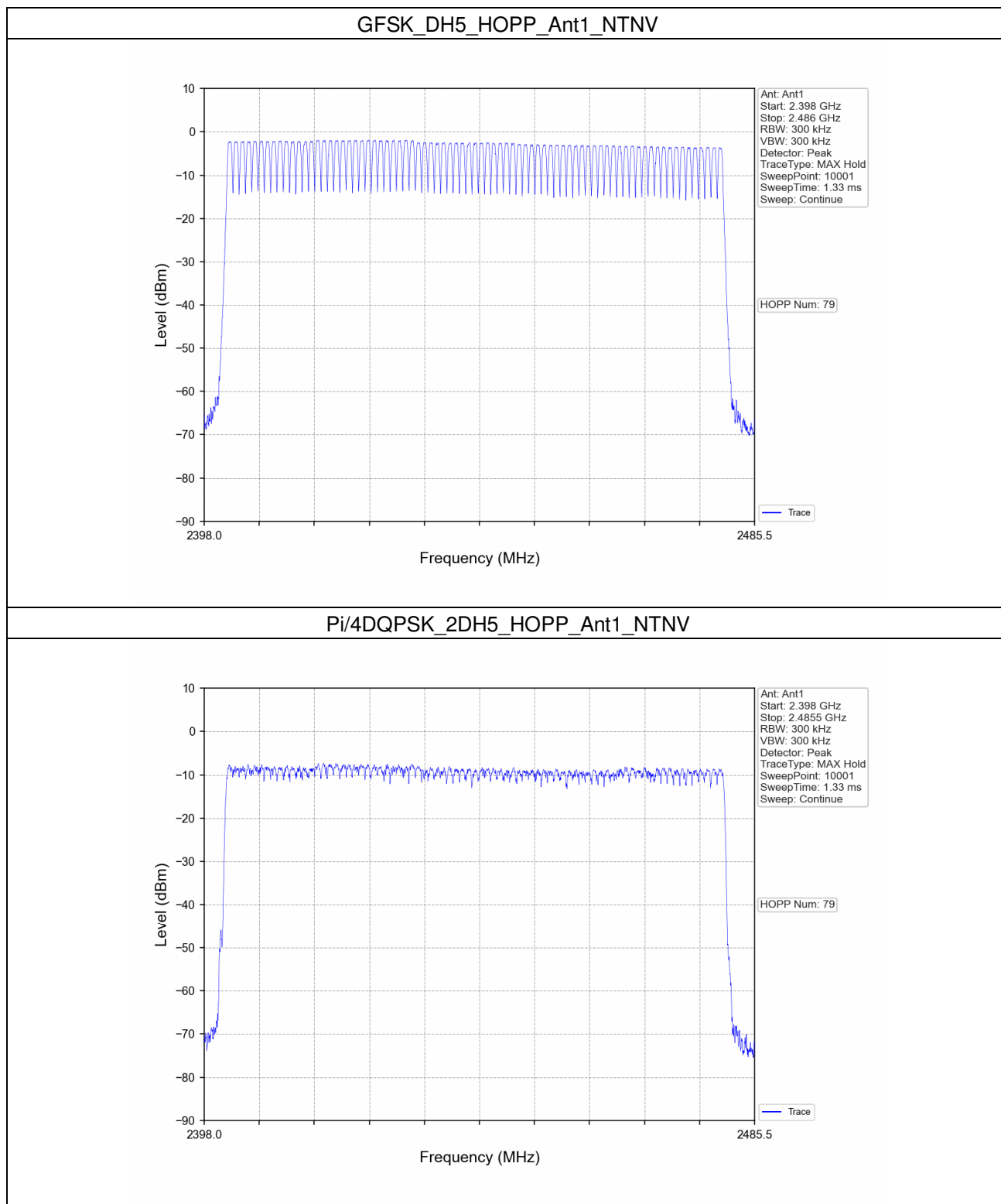
6. Number of Hopping Frequencies

6.1 HoppNum

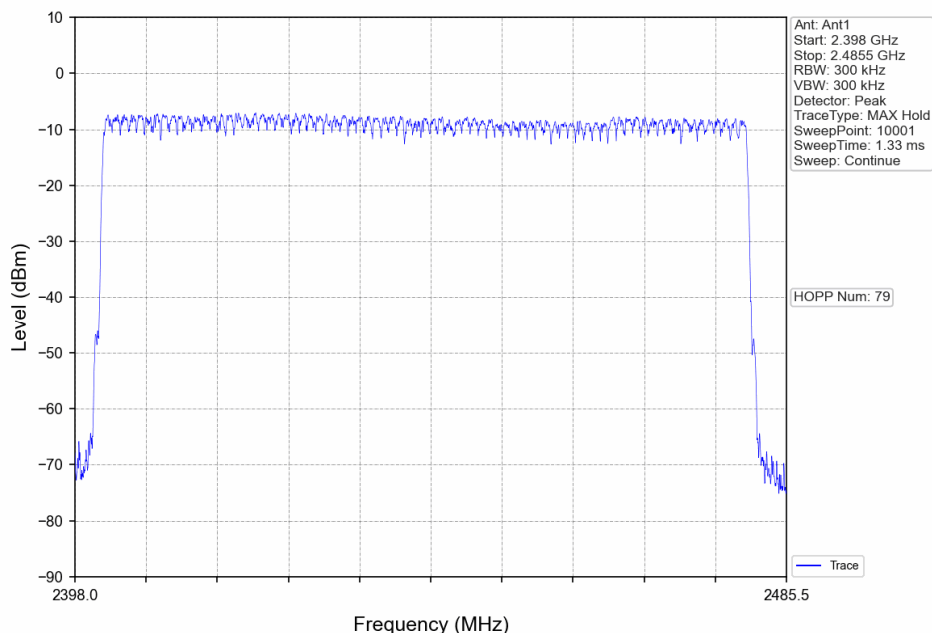
6.1.1 Test Result

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

6.1.2 Test Graph



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7. Time of Occupancy (Dwell Time)

7.1 Ant1

7.1.1 Test Result

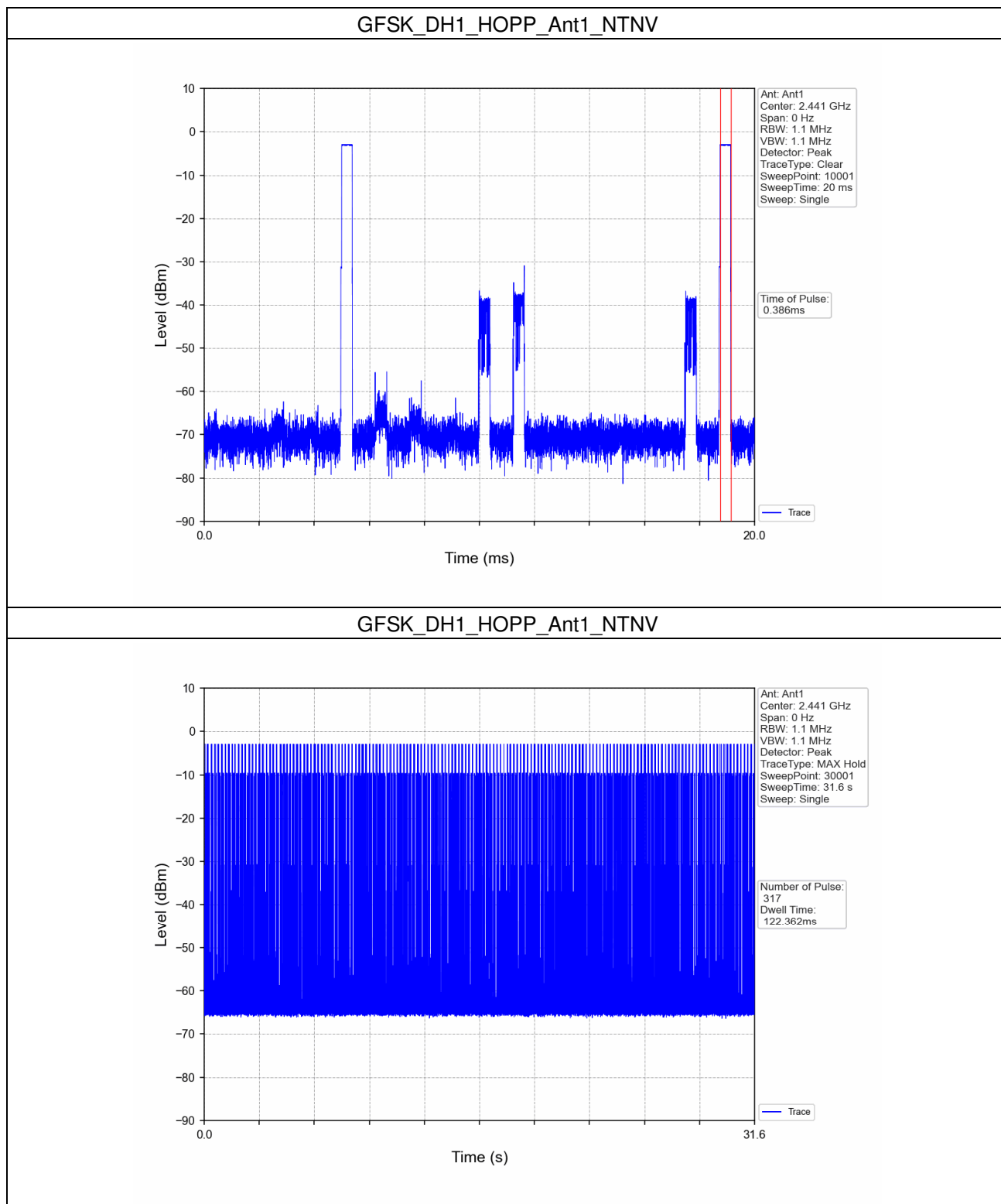
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	317	122.362	<=400	Pass
			DH3	1.640	31.600	173	283.720	<=400	Pass
			DH5	2.888	31.600	105	303.240	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.644	31.600	165	271.260	<=400	Pass
			2DH5	2.890	31.600	94	271.660	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	318	124.020	<=400	Pass
			3DH3	1.642	31.600	151	247.942	<=400	Pass
			3DH5	2.892	31.600	99	286.308	<=400	Pass



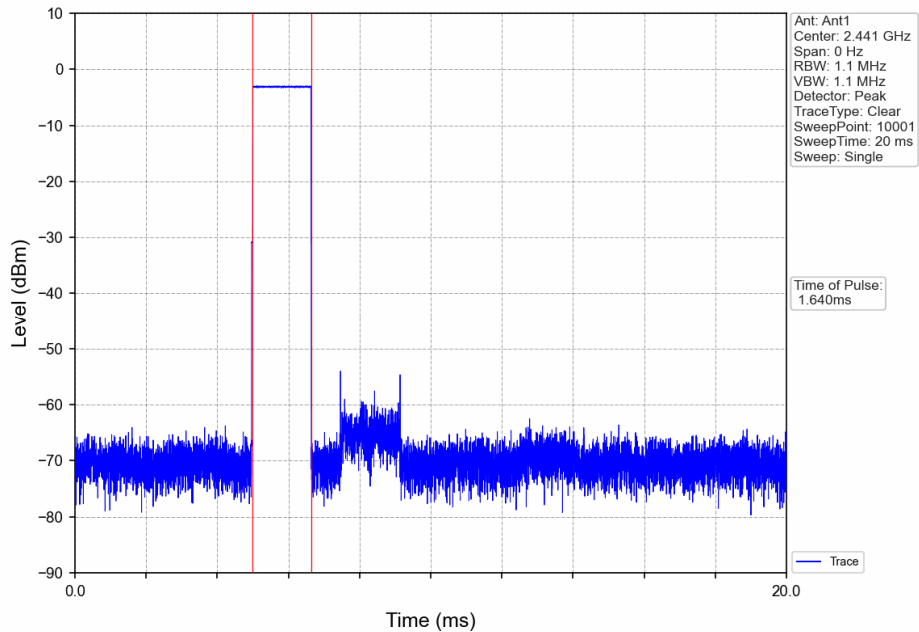
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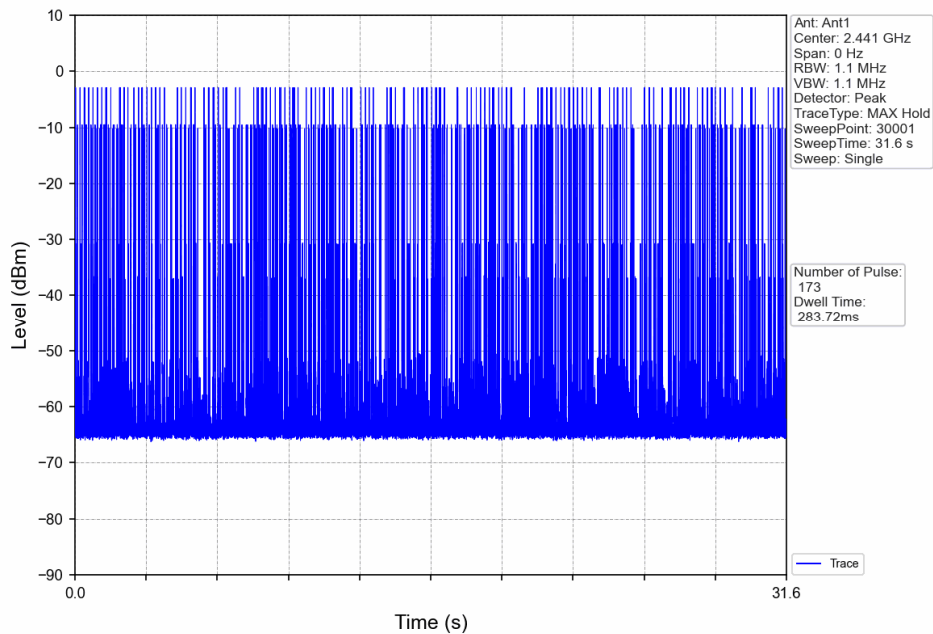
7.1.2 Test Graph



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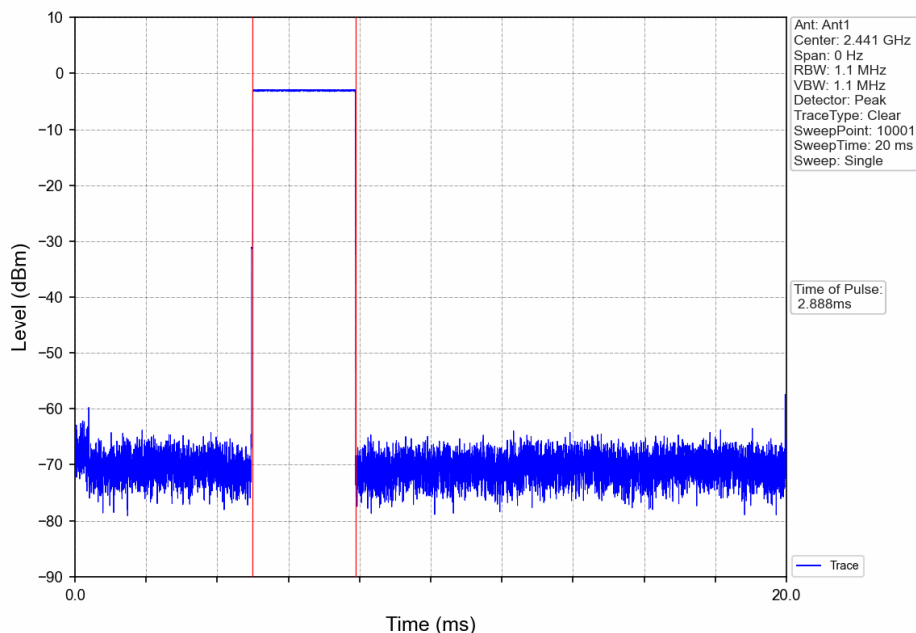


GFSK_DH3_HOPP_Ant1_NTNV

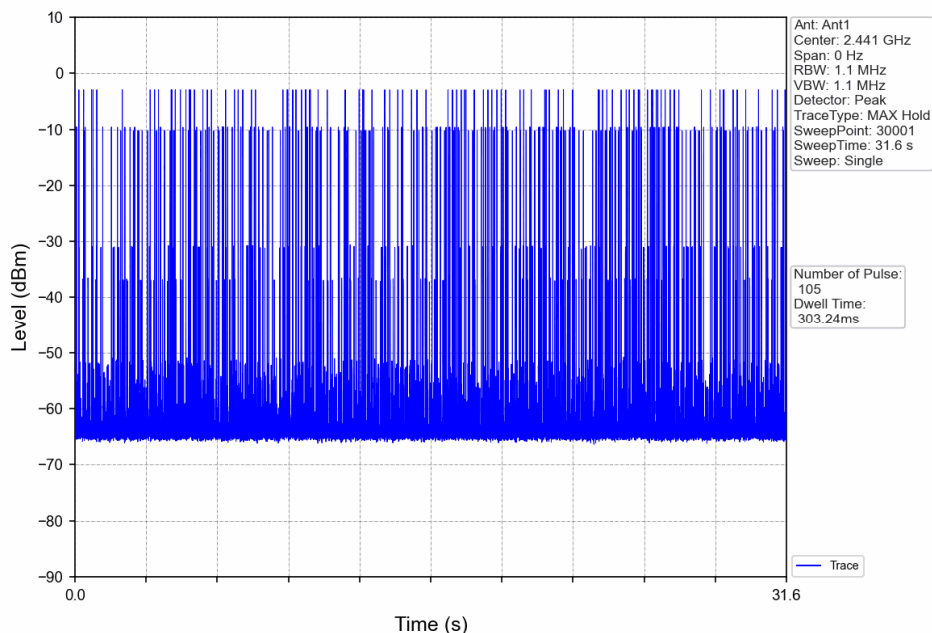


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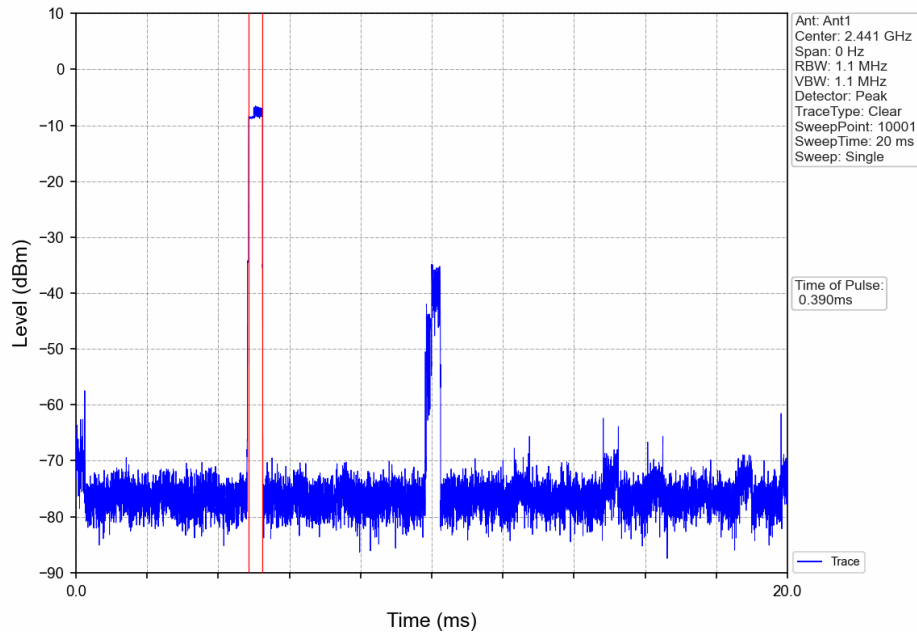
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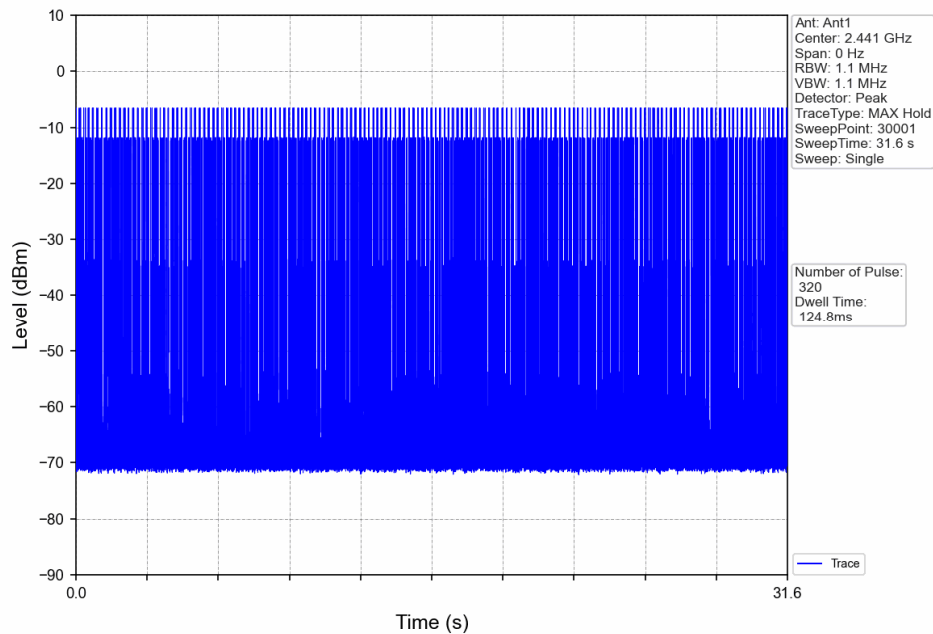
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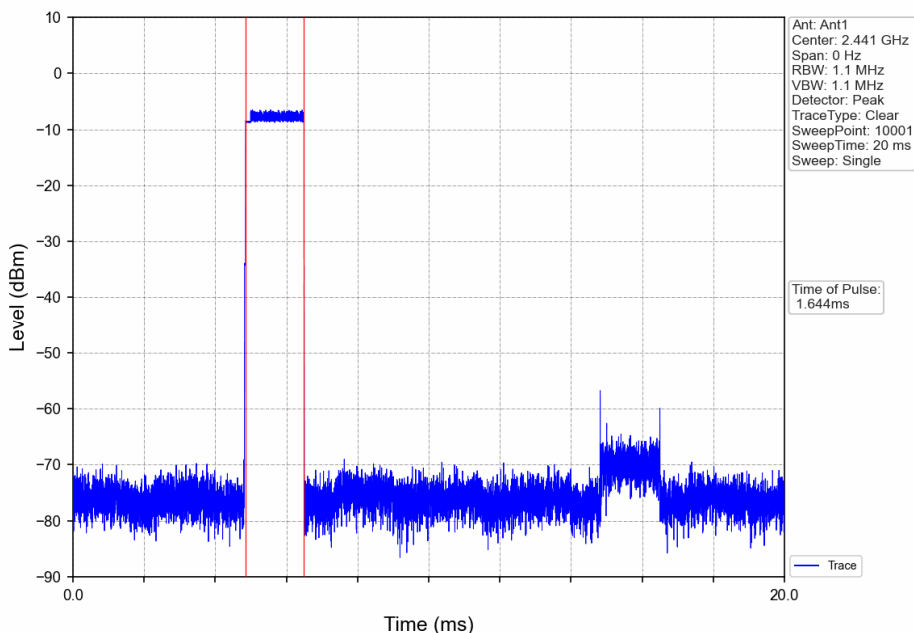
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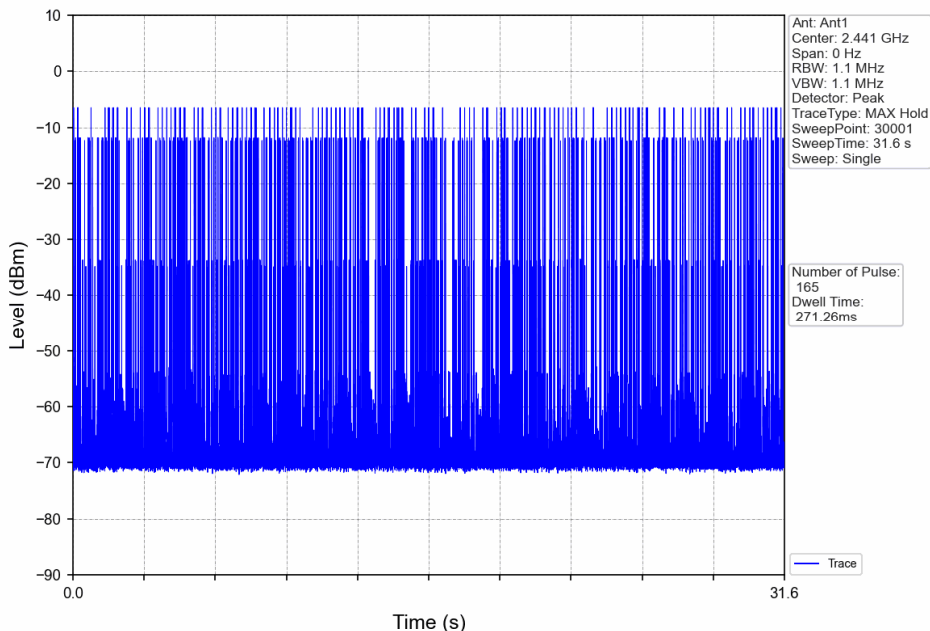
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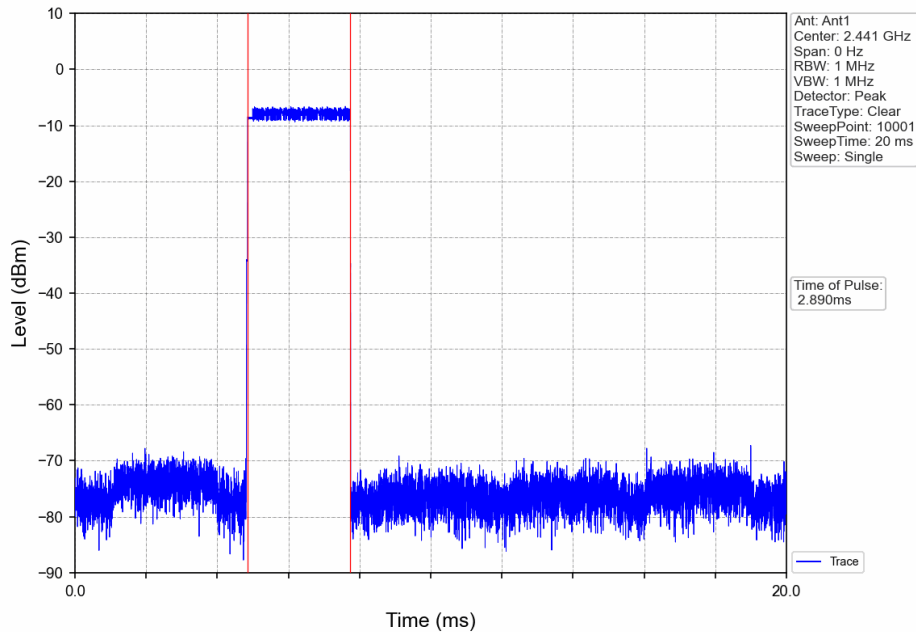
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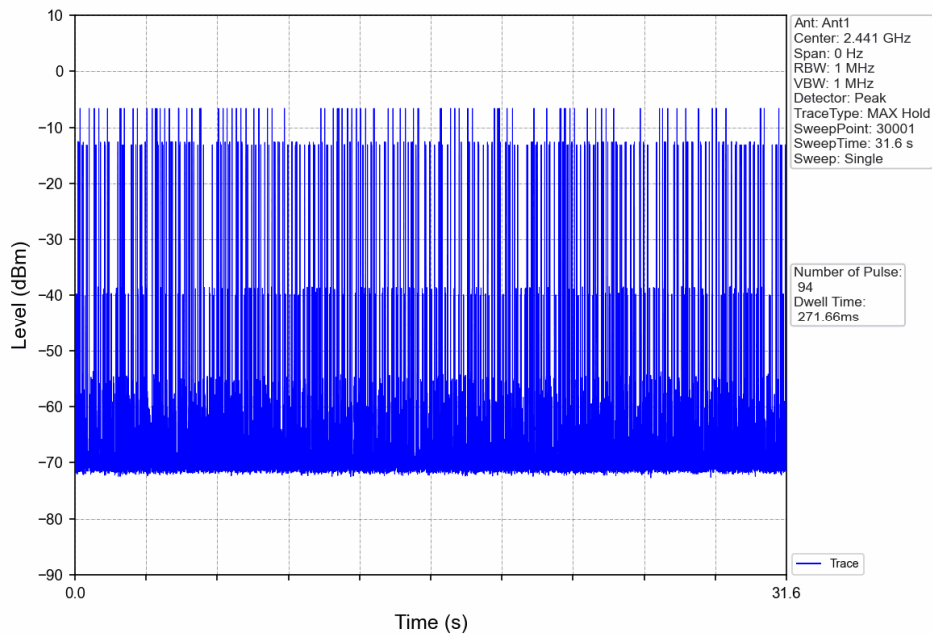
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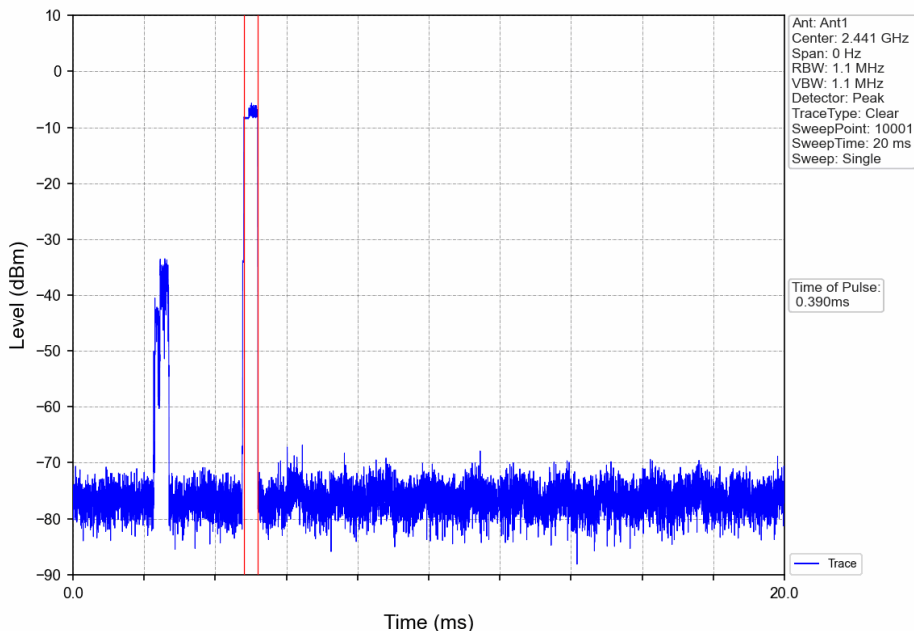
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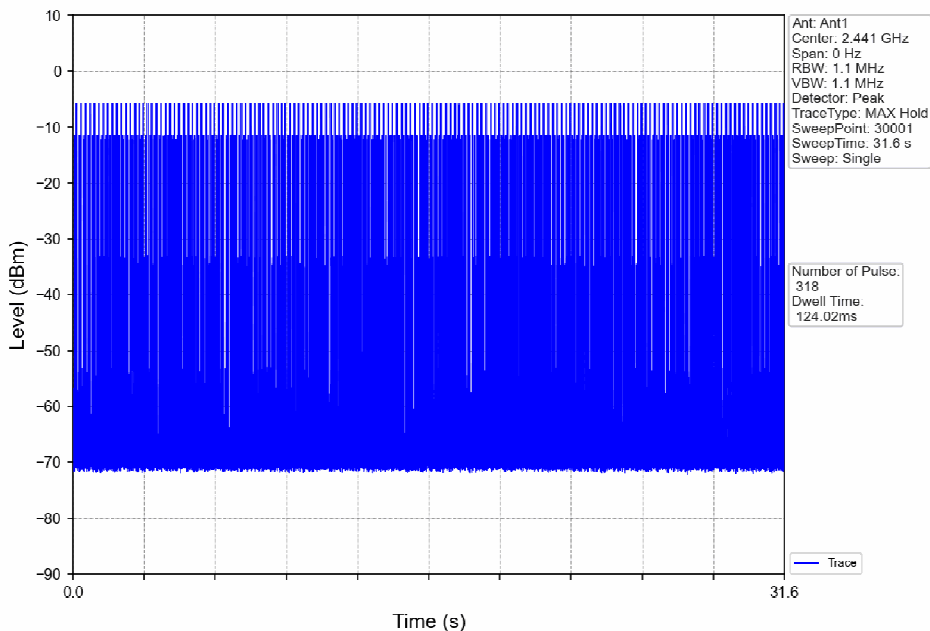
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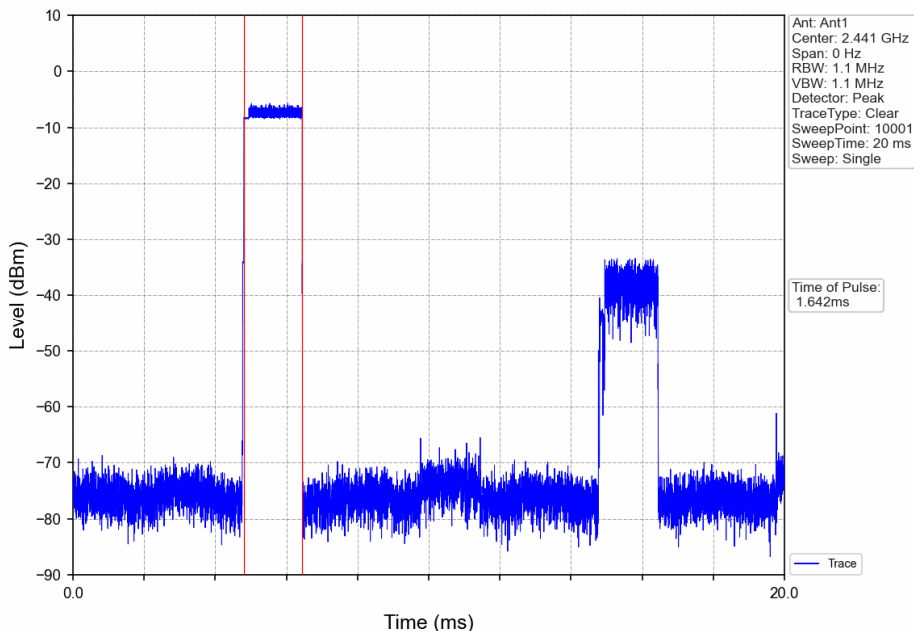
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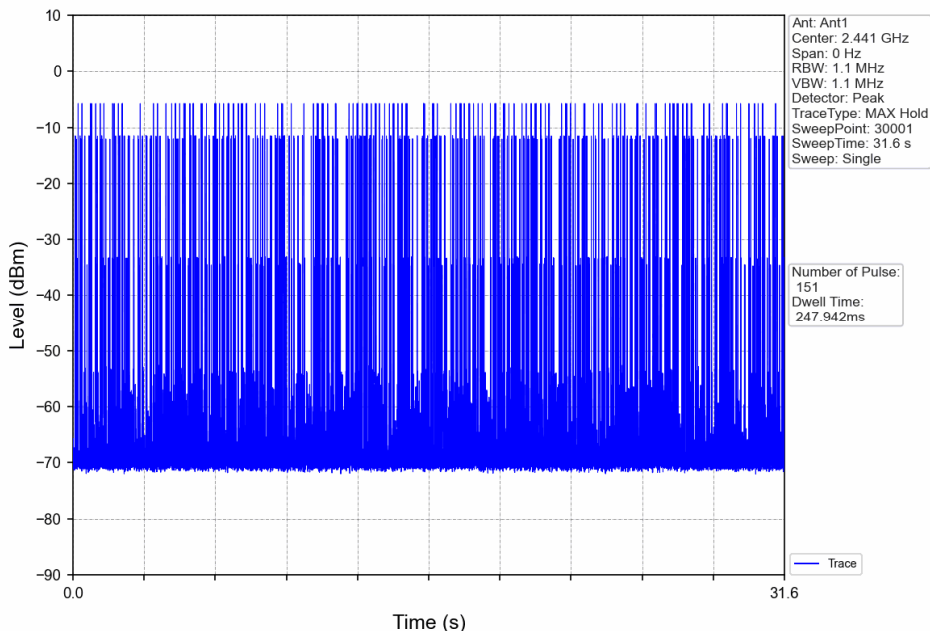
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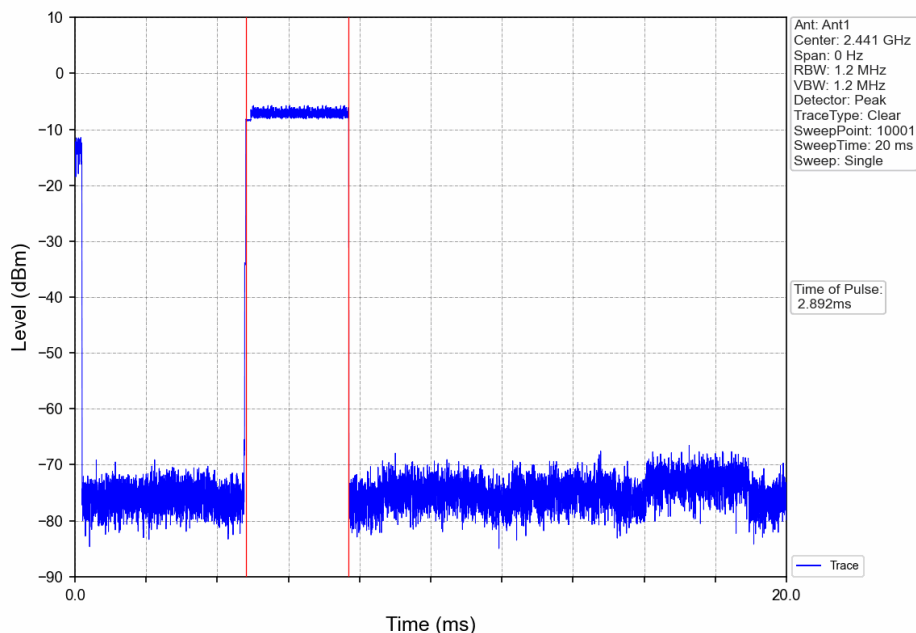


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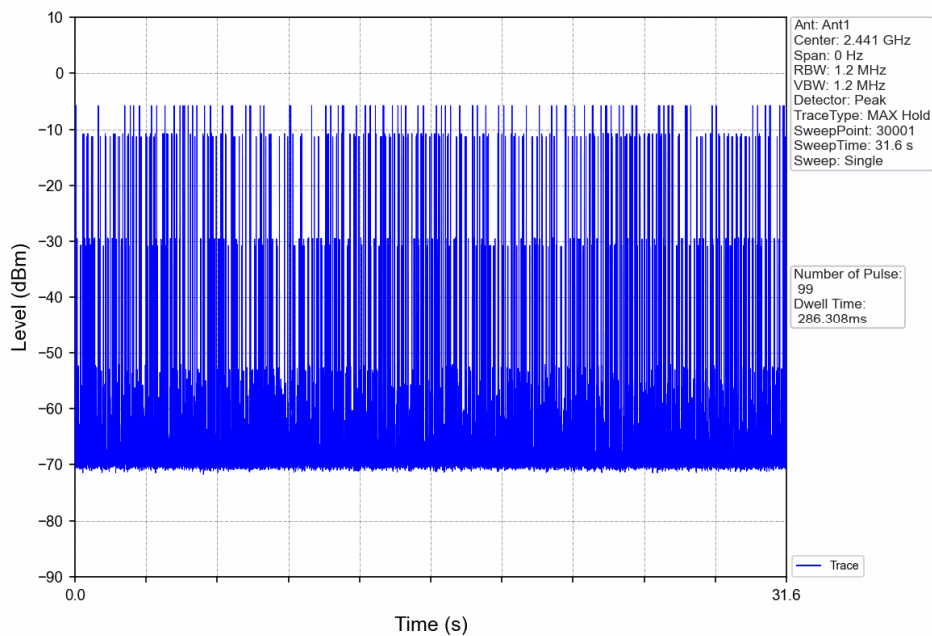


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- End of the Report -