

10 Appendix

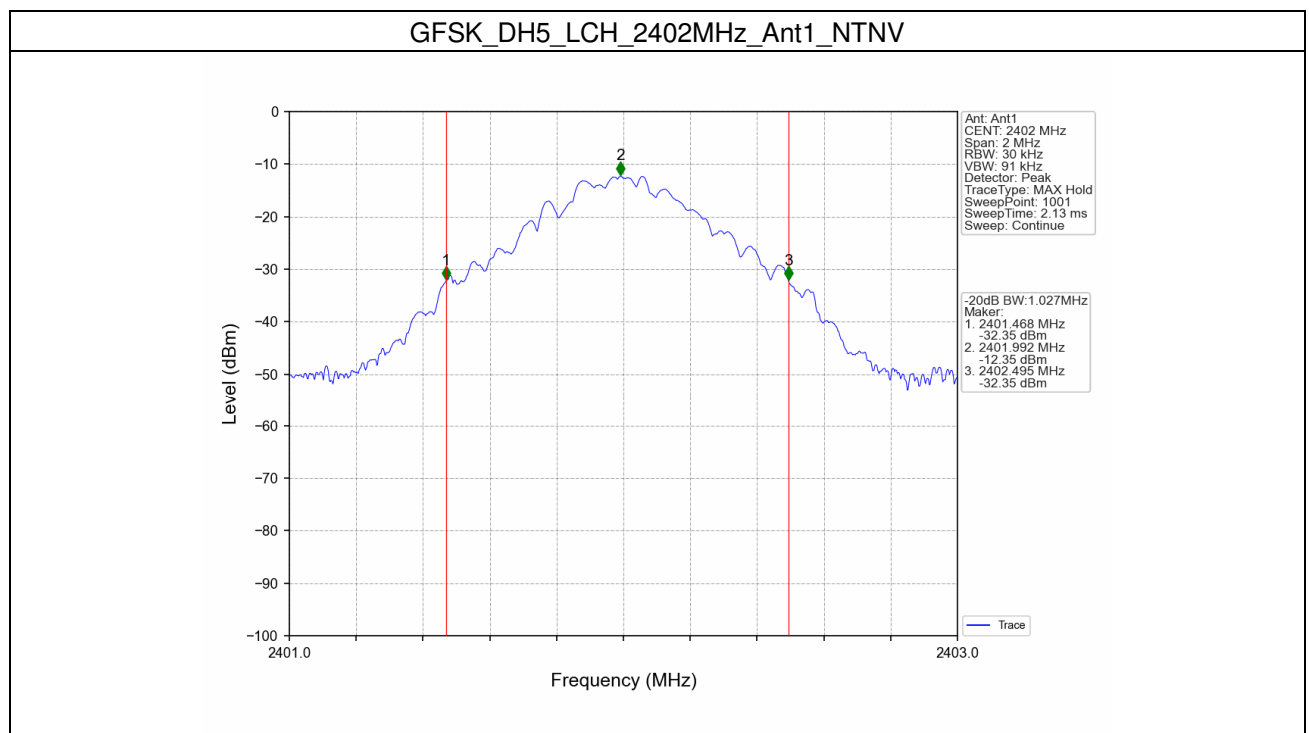
1. Bandwidth

1.1 20dB BW

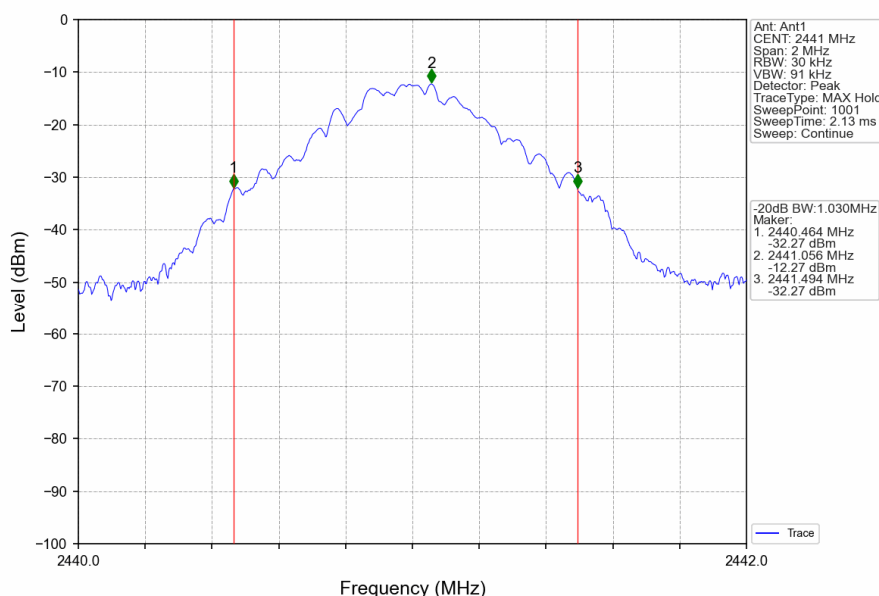
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.027	Pass
		2441	DH5	1	1.030	Pass
		2480	DH5	1	1.029	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.367	Pass
		2441	2DH5	1	1.368	Pass
		2480	2DH5	1	1.367	Pass
8DPSK	SISO	2402	3DH5	1	1.345	Pass
		2441	3DH5	1	1.345	Pass
		2480	3DH5	1	1.347	Pass

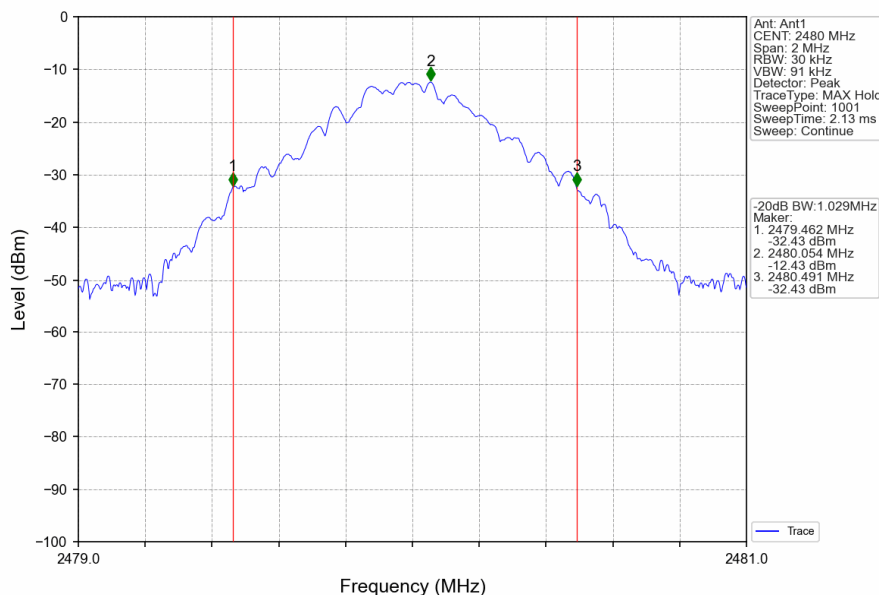
1.1.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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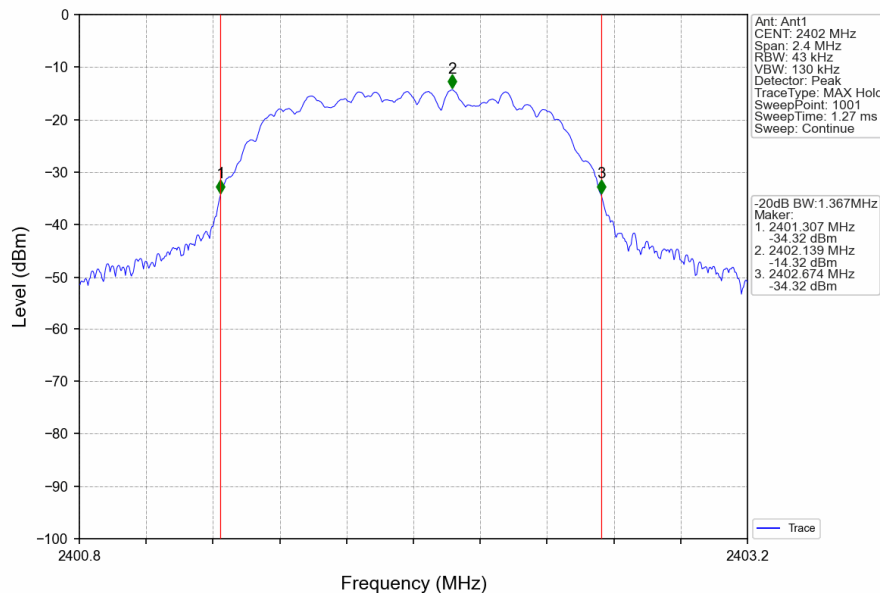
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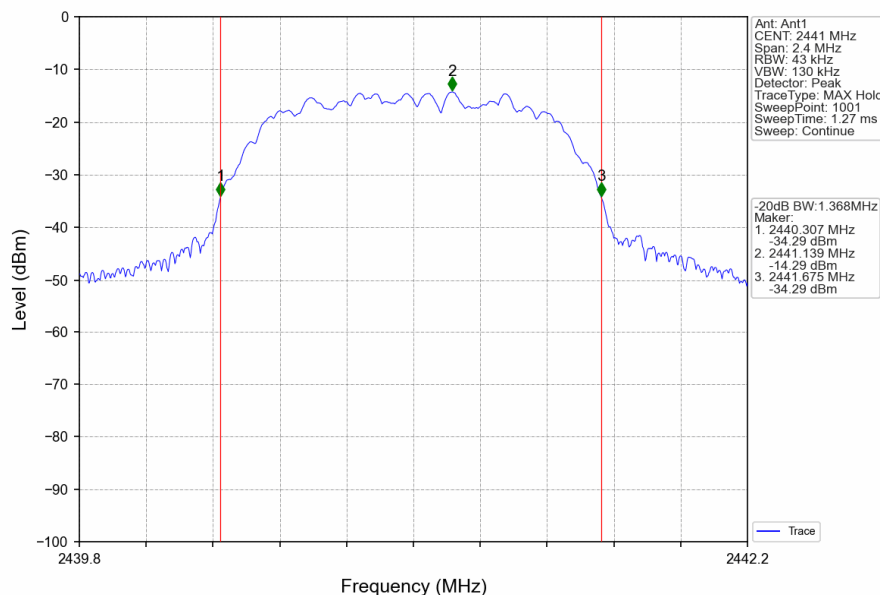
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



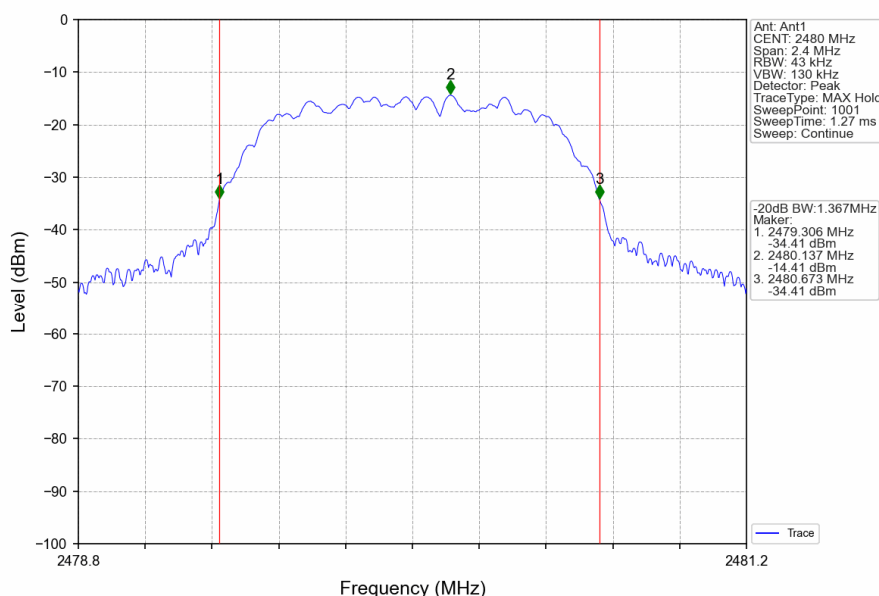
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



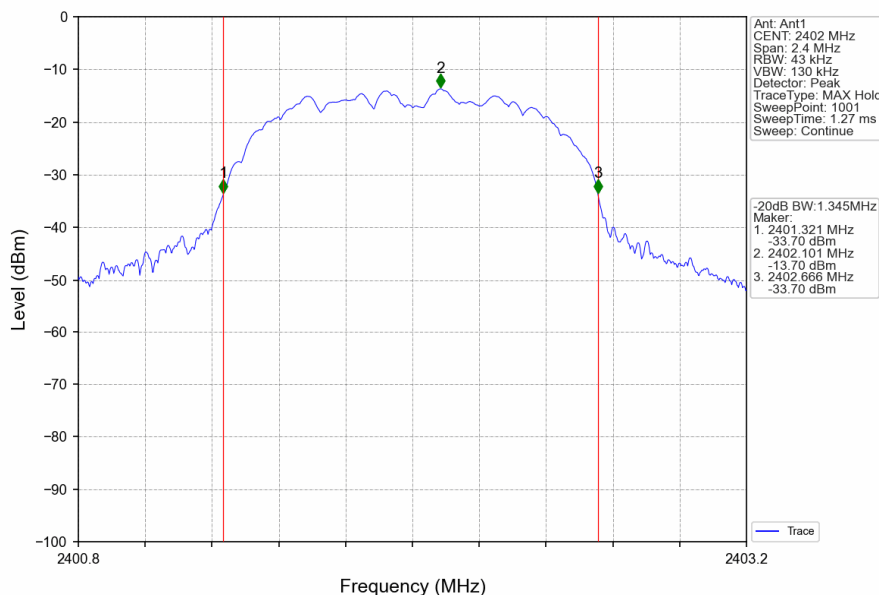
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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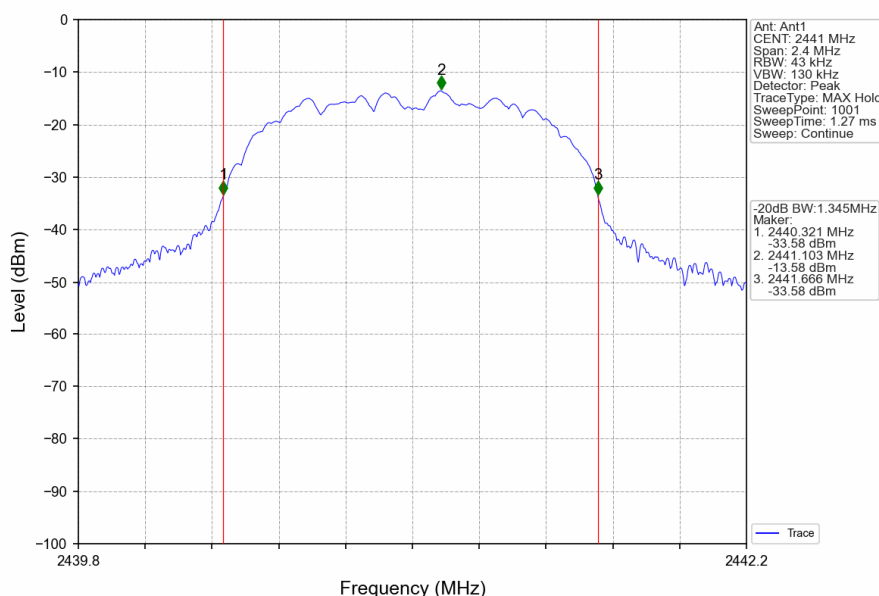
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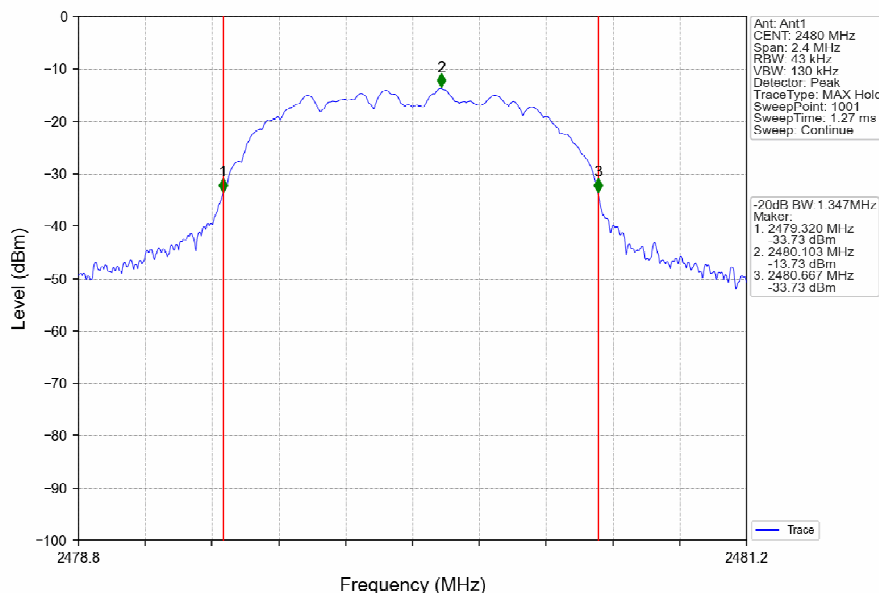
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Maximum Conducted Output Power

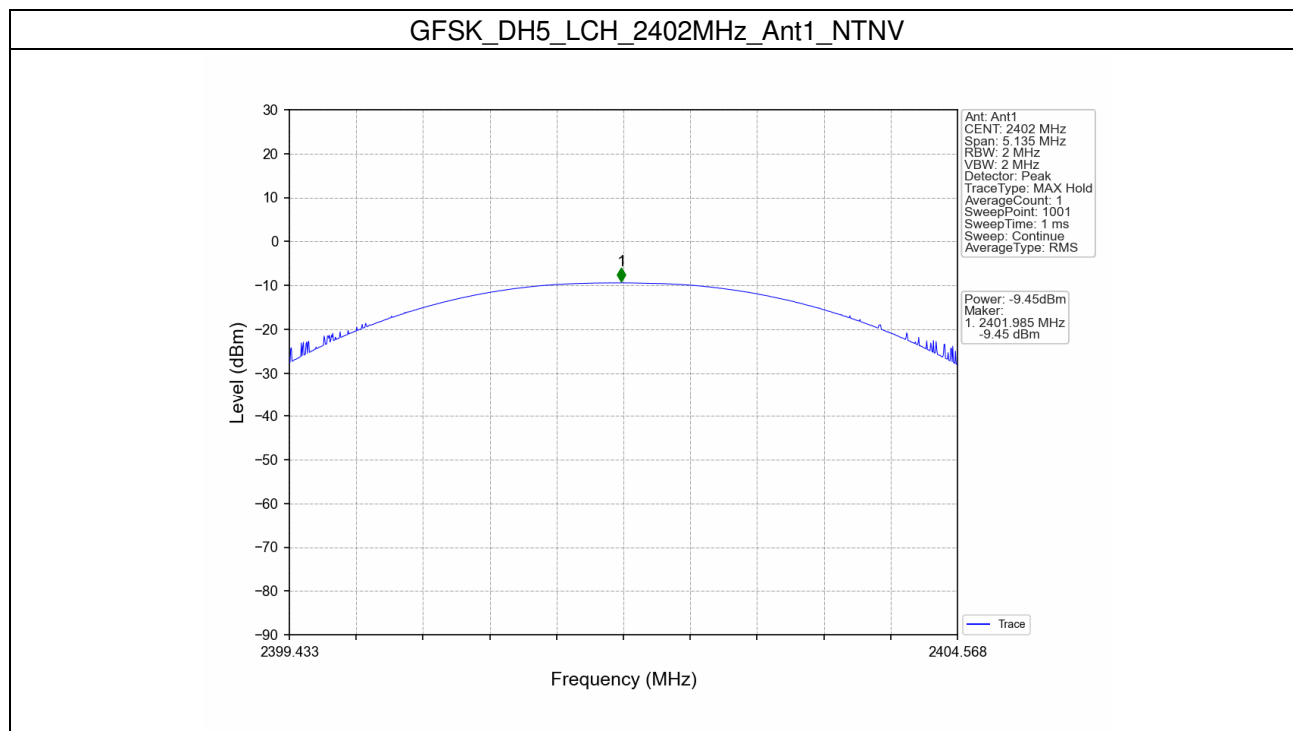
2.1 Power

2.1.1 Test Result

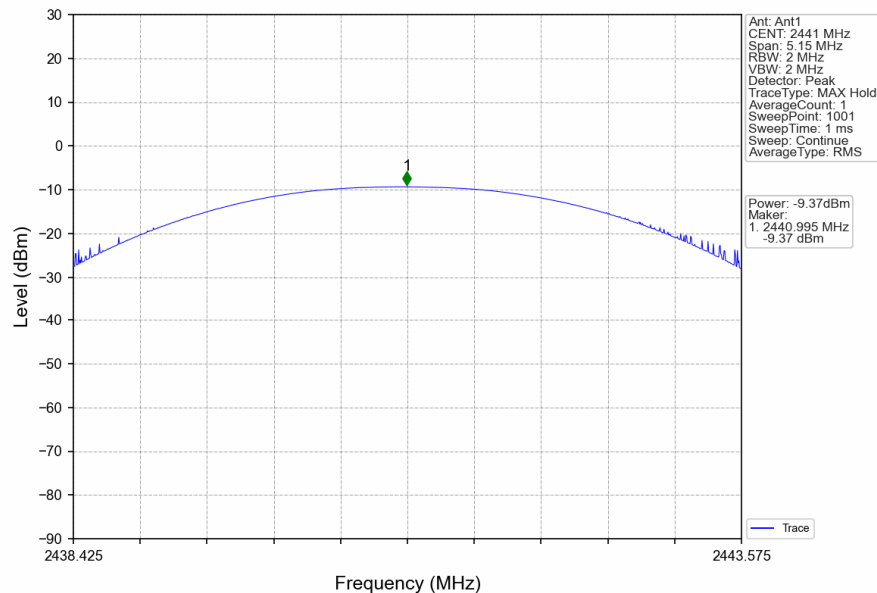
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-9.45	<=20.97	Pass
		2441	DH5	-9.37	<=20.97	Pass
		2480	DH5	-9.49	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	-7.09	<=20.97	Pass
		2441	2DH5	-7.01	<=20.97	Pass
		2480	2DH5	-7.12	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-6.76	<=20.97	Pass
		2441	3DH5	-6.66	<=20.97	Pass
		2480	3DH5	-6.75	<=20.97	Pass

Note1: Antenna Gain: Ant1: -0.25dBi;

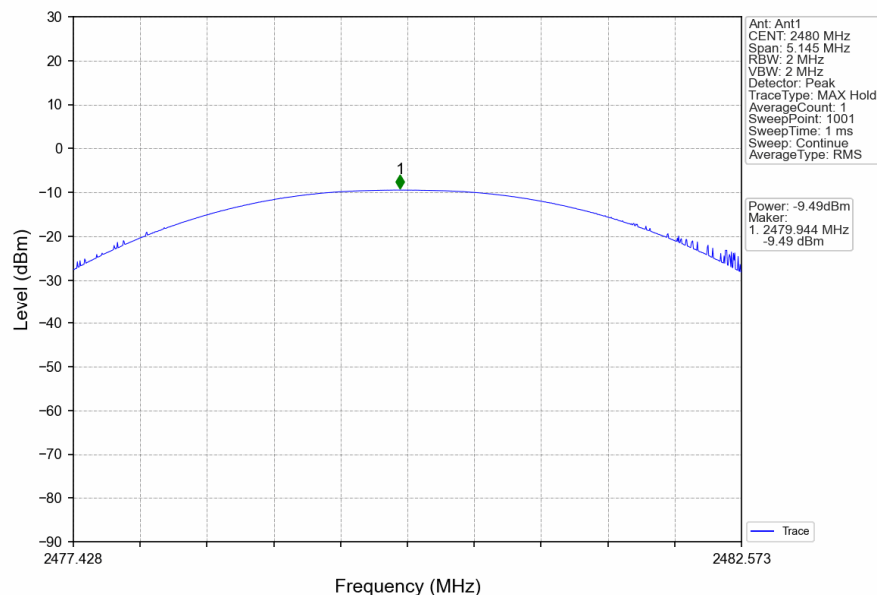
2.1.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



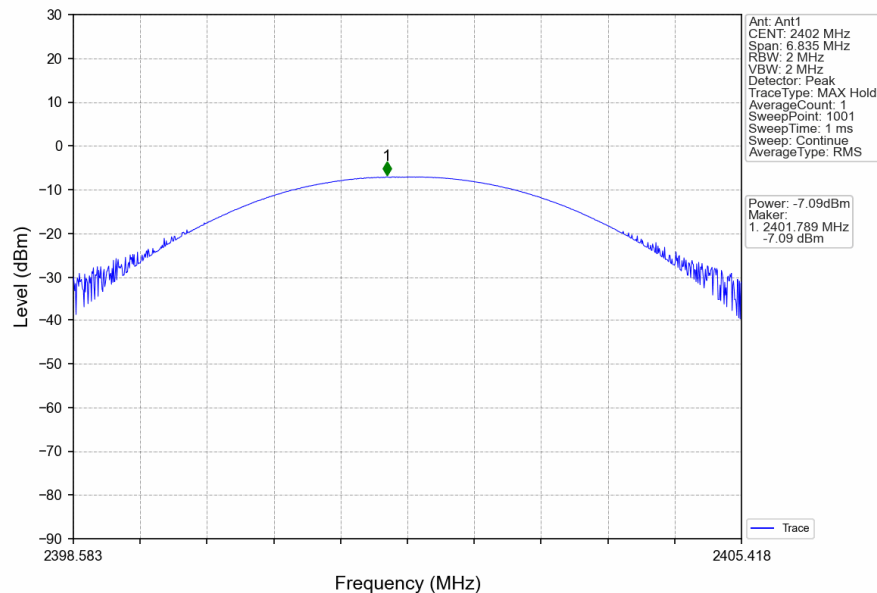
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



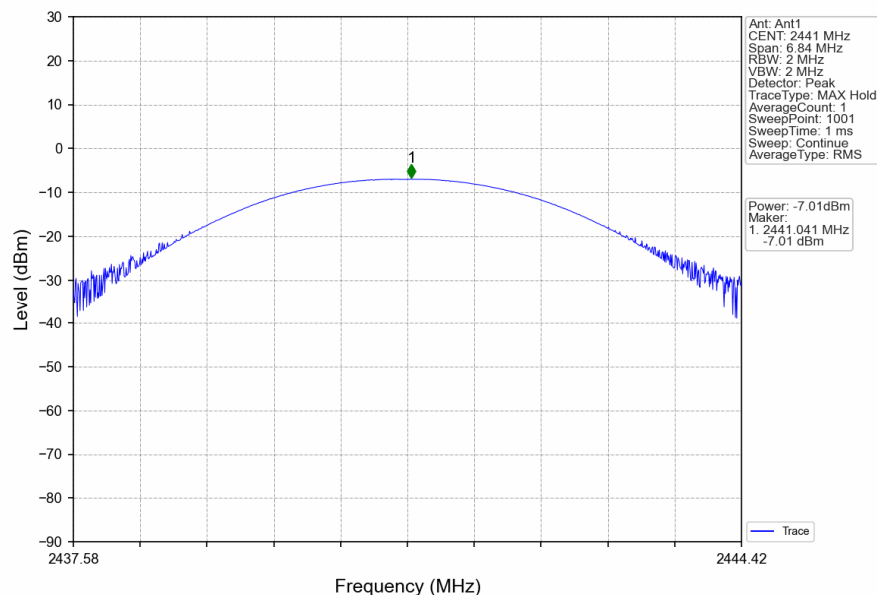
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



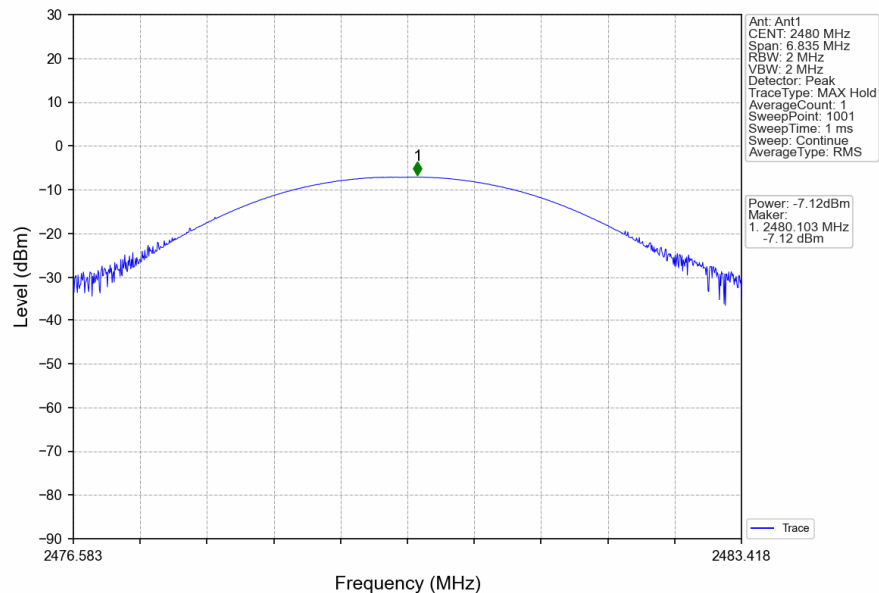
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



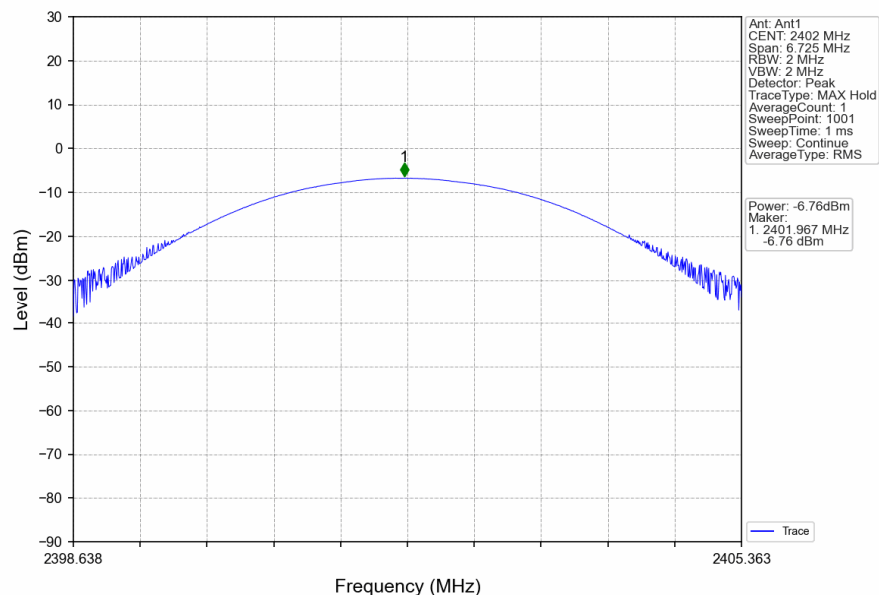
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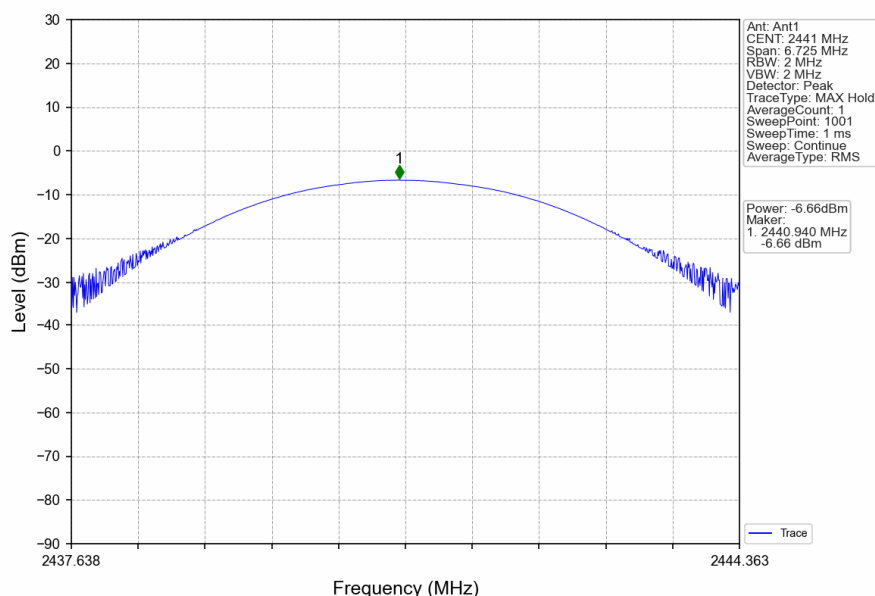
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



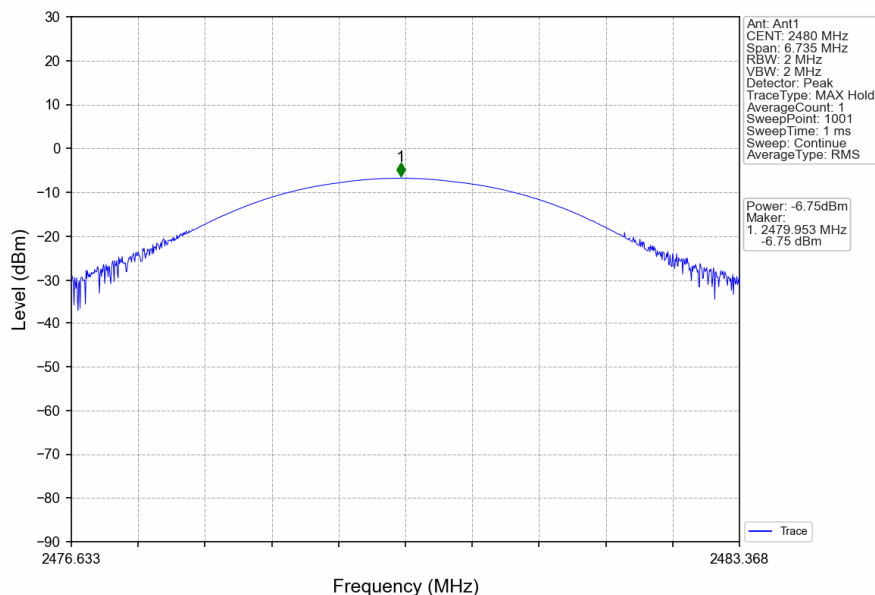
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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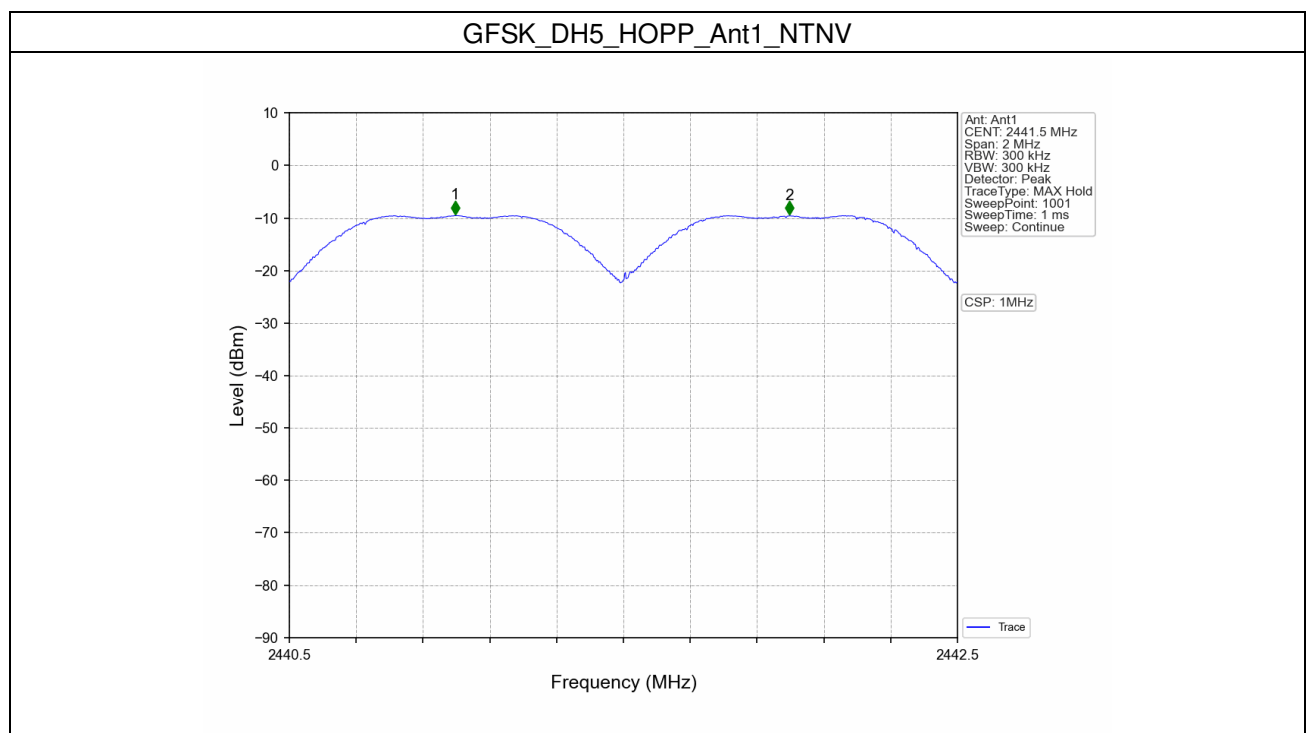
3. Carrier Frequency Separation

3.1 Ant1

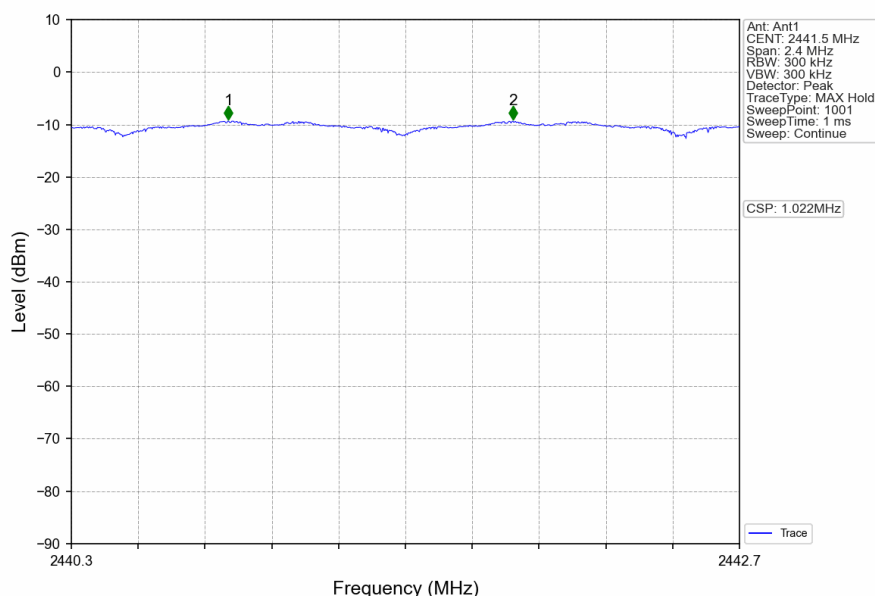
3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.030	≥ 0.687	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.022	1.368	≥ 0.912	Pass
8DPSK	SISO	HOPP	3DH5	1.027	1.347	≥ 0.898	Pass

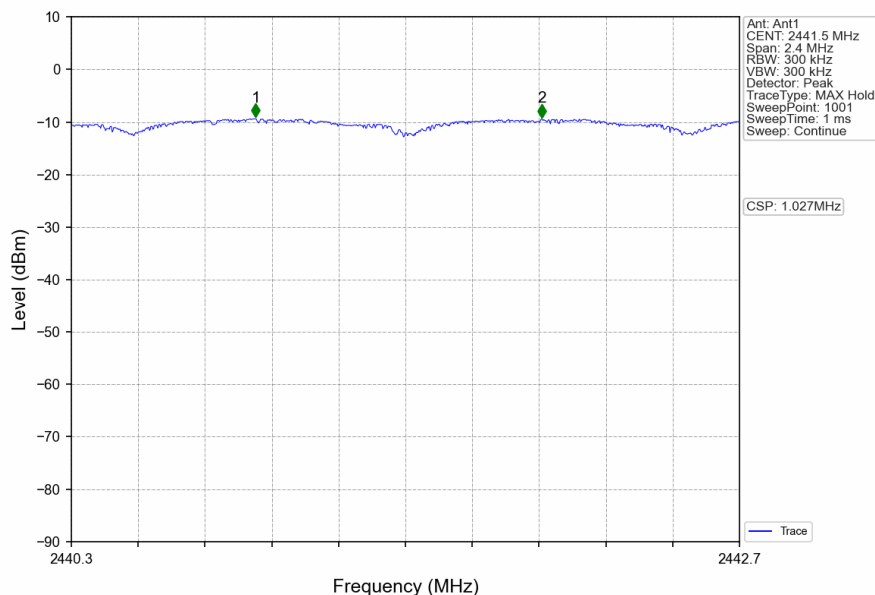
3.1.2 Test Graph



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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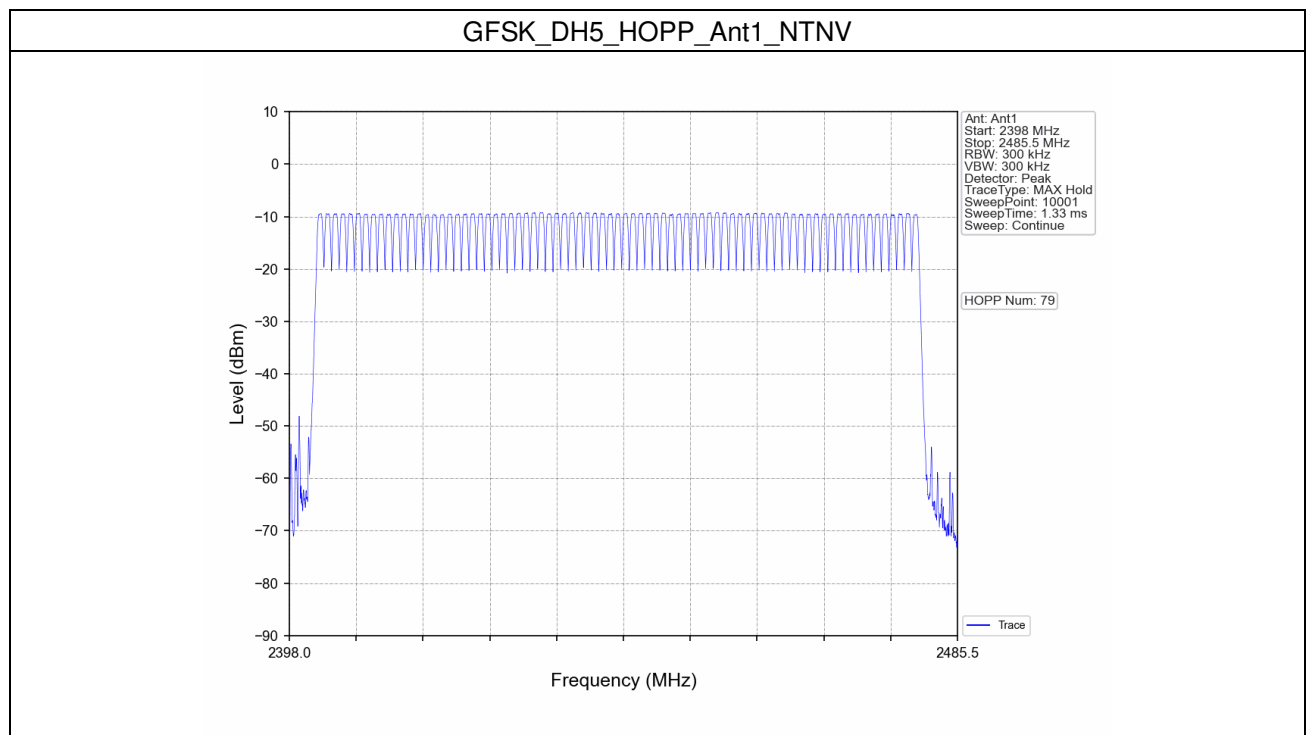
4. Number of Hopping Frequencies

4.1 HoppNum

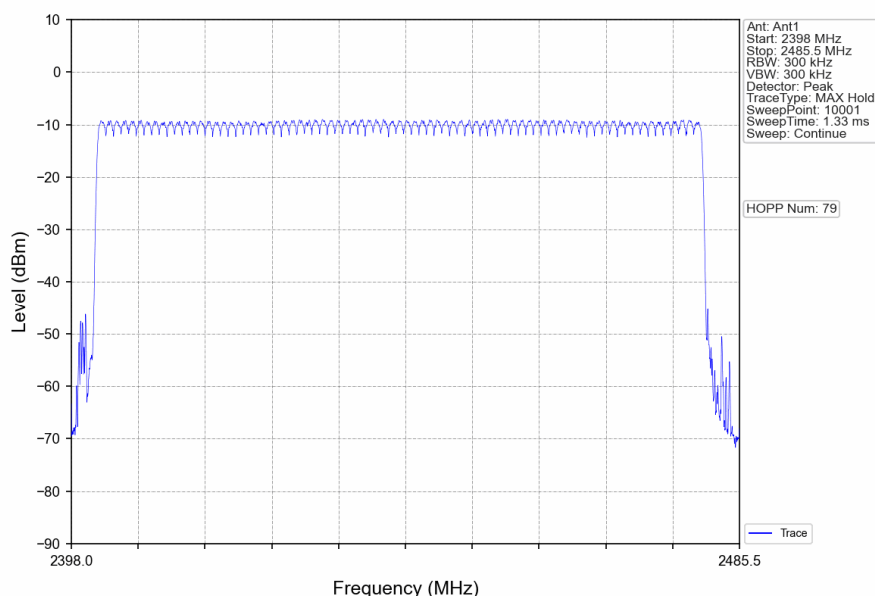
4.1.1 Test Result

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

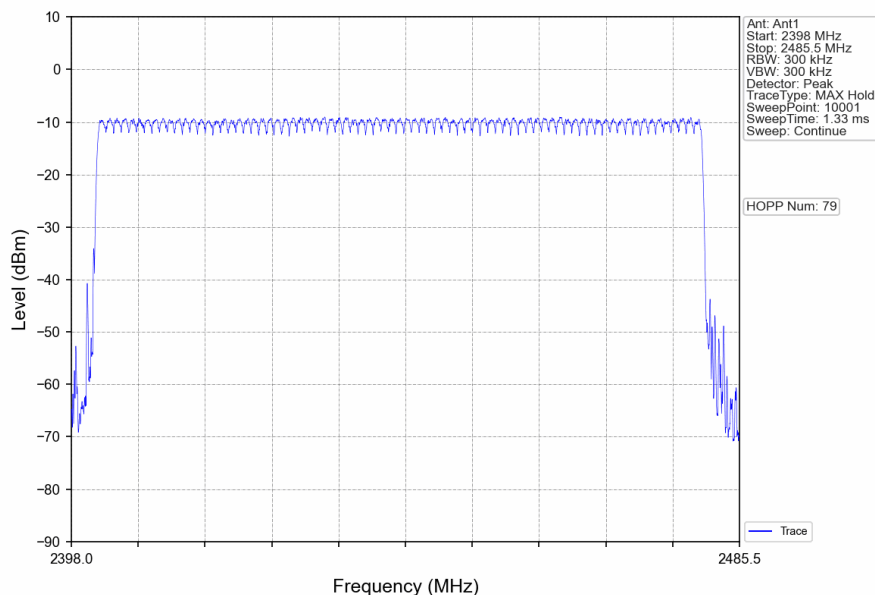
4.1.2 Test Graph



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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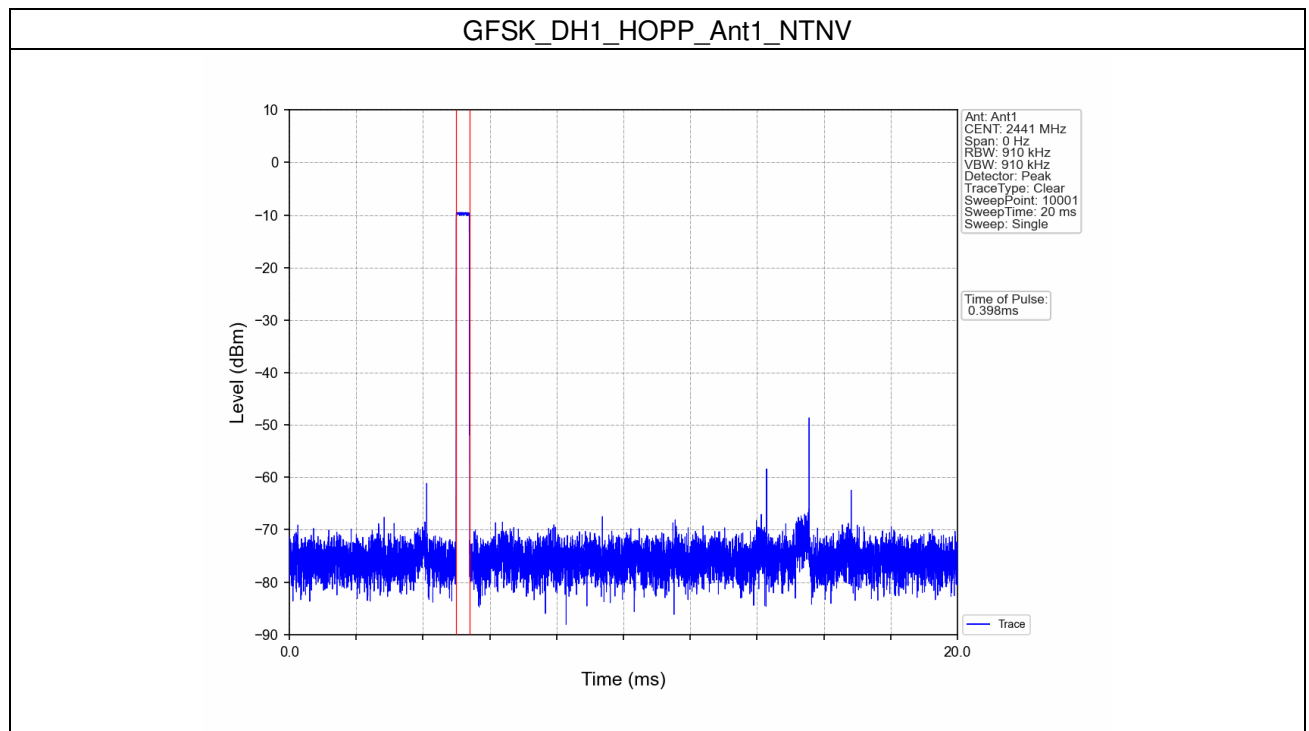
5. Time of Occupancy (Dwell Time)

5.1 Ant1

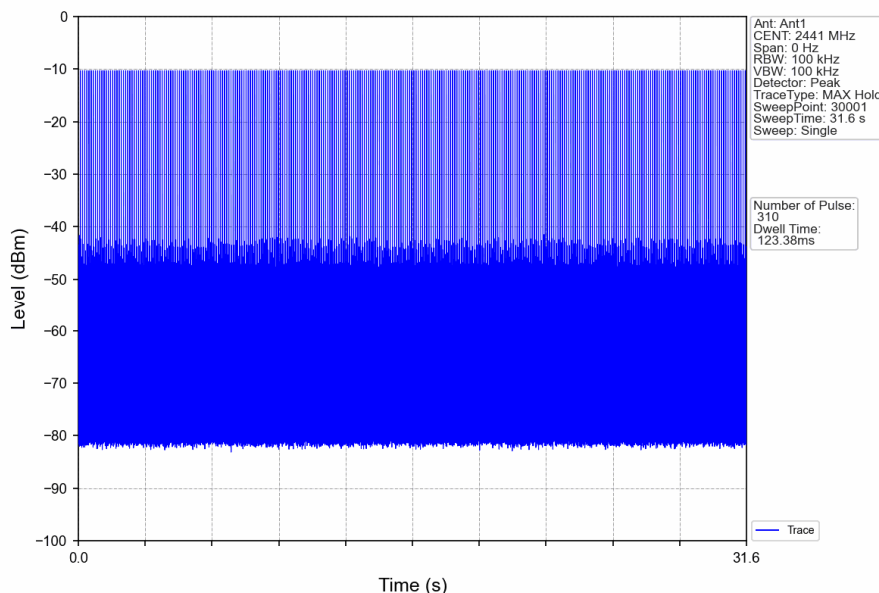
5.1.1 Test Result

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	0.398	31.600	310	123.380	<=400	Pass
			DH3	1.662	31.600	155	257.610	<=400	Pass
			DH5	2.928	31.600	104	304.512	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.380	31.600	310	117.800	<=400	Pass
			2DH3	1.654	31.600	155	256.370	<=400	Pass
			2DH5	2.948	31.600	103	303.644	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.386	31.600	310	119.660	<=400	Pass
			3DH3	1.674	31.600	155	259.470	<=400	Pass
			3DH5	2.934	31.600	104	305.136	<=400	Pass

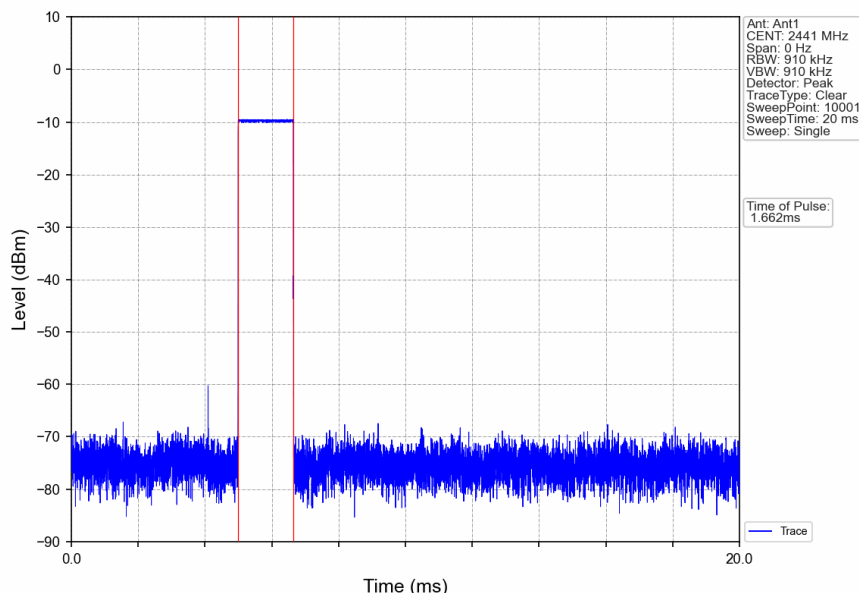
5.1.2 Test Graph



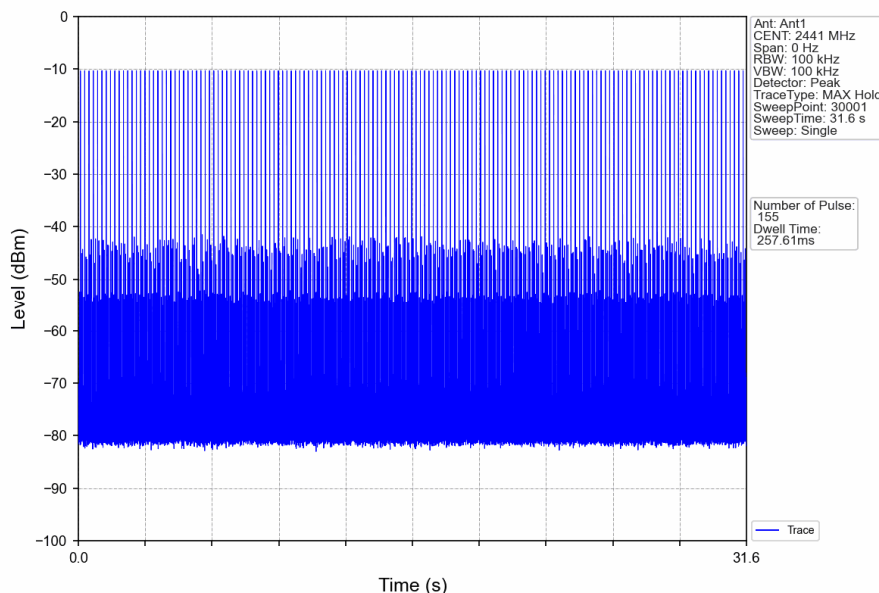
GFSK_DH1_HOPP_Ant1_NTNV



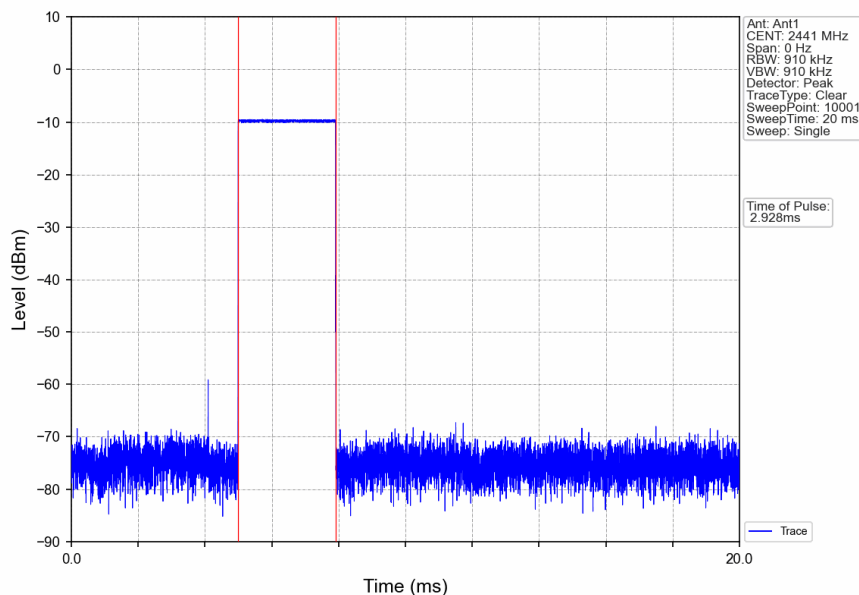
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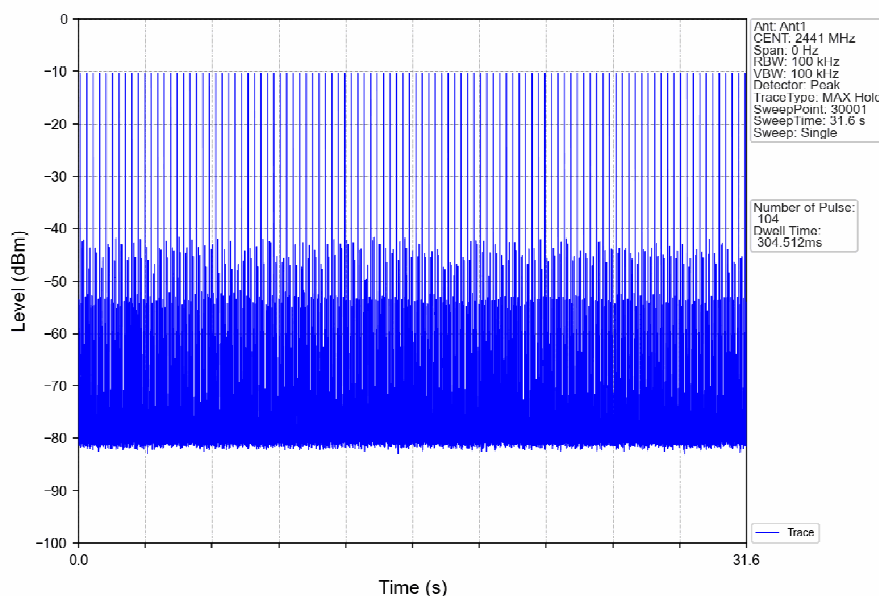
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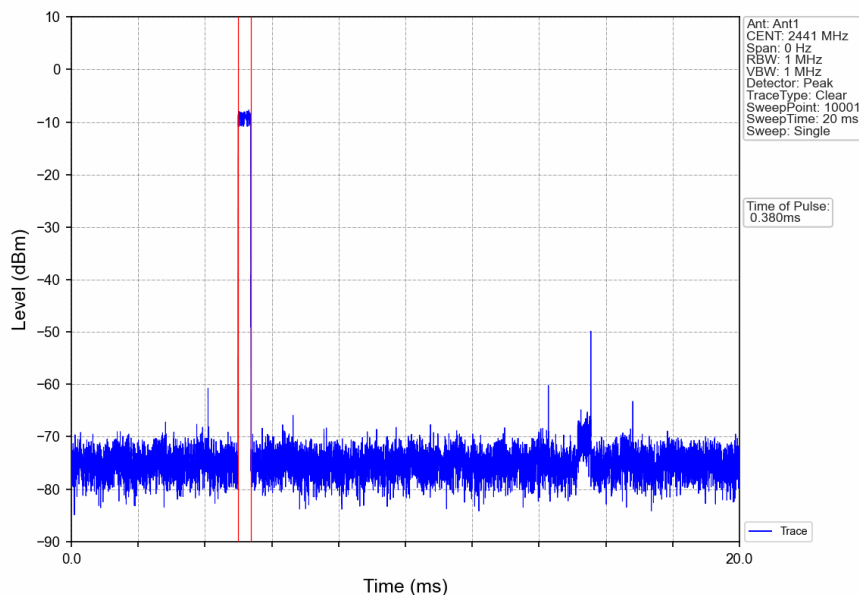
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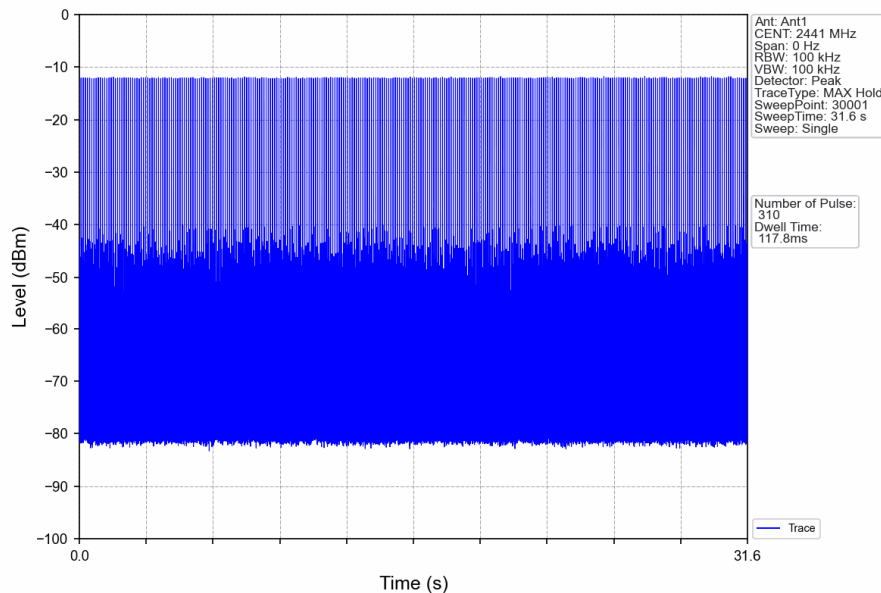
GFSK_DH5_HOPP_Ant1_NTNV



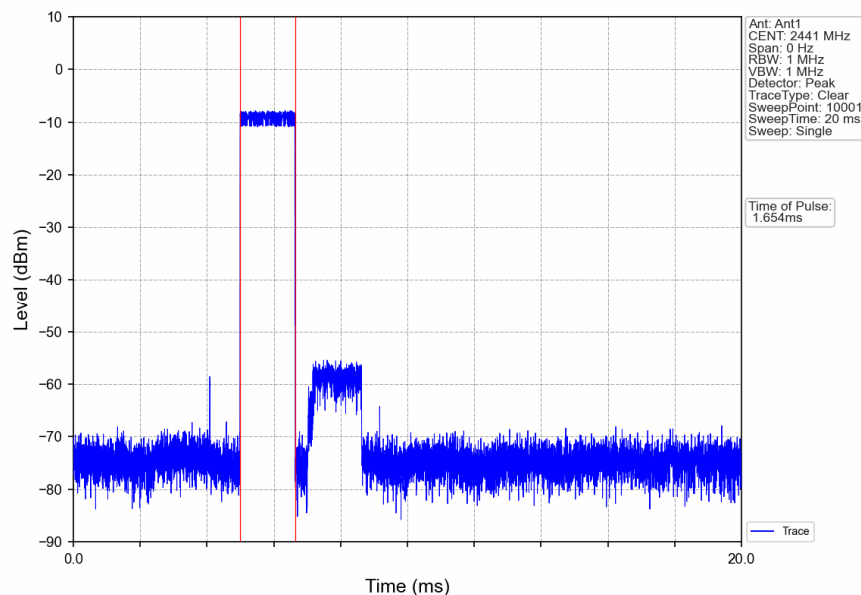
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



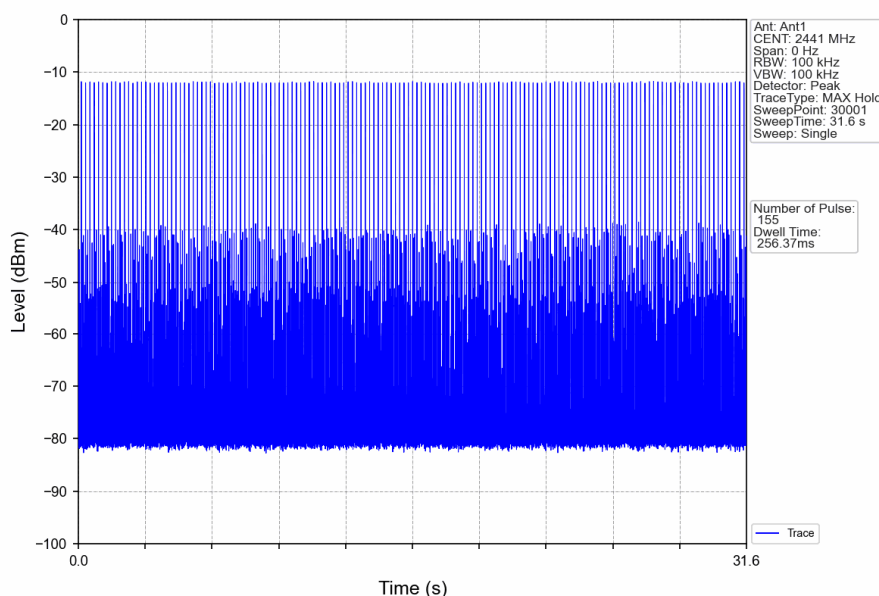
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



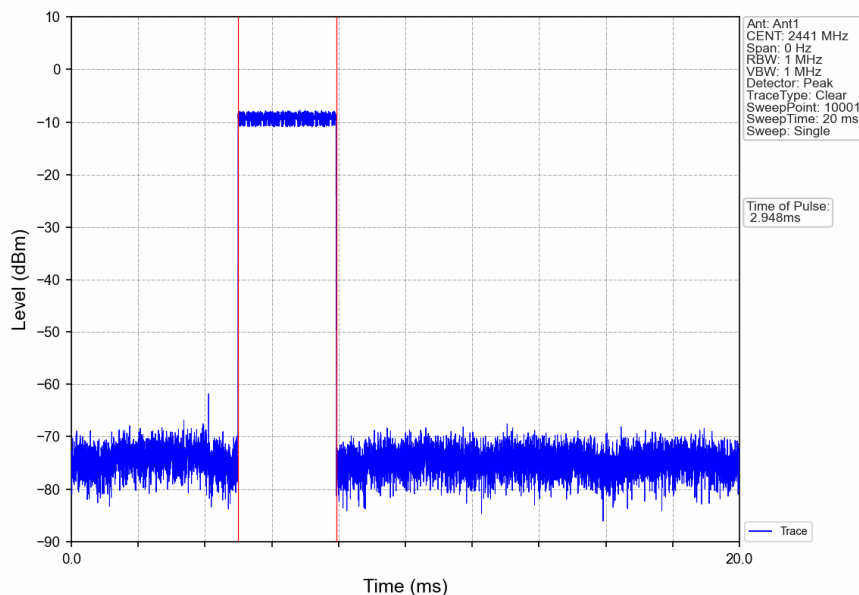
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



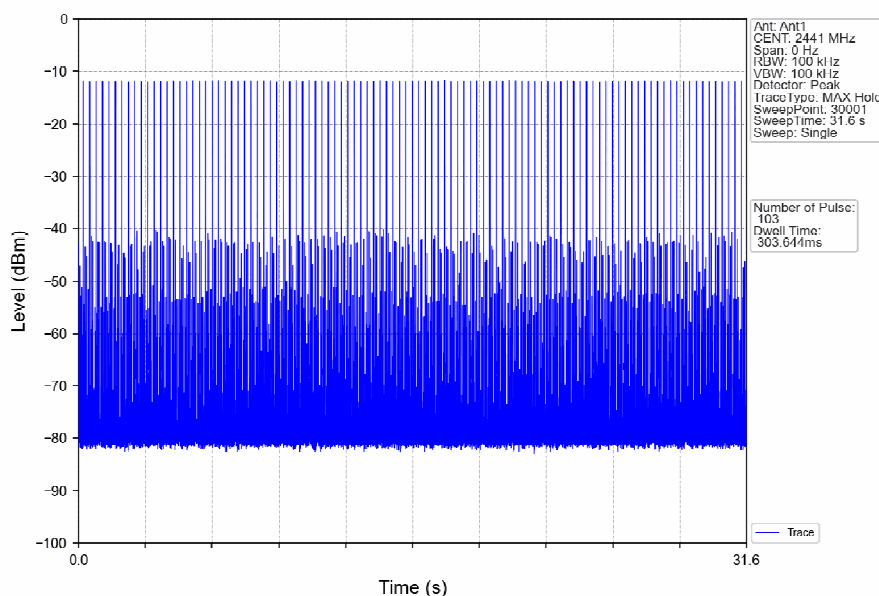
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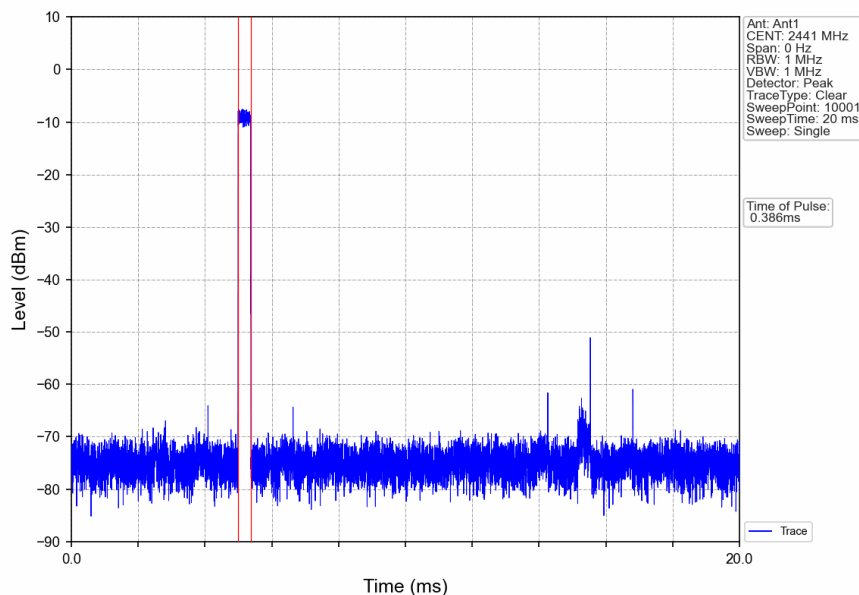
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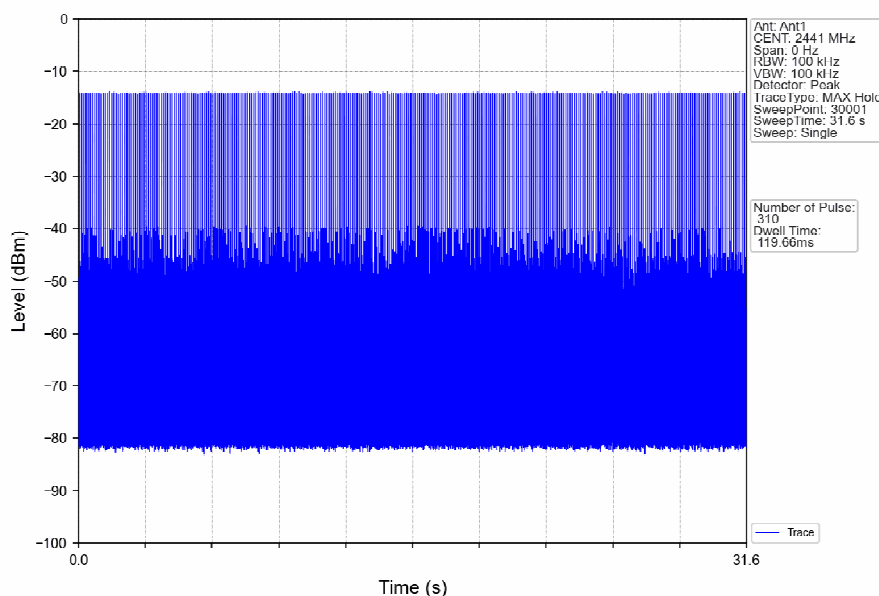
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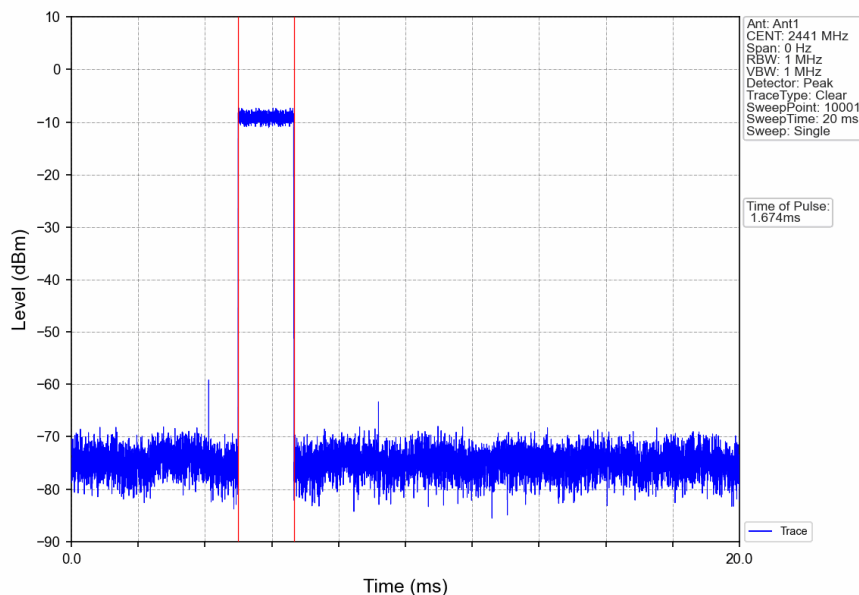
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8DPSK_3DH1_HOPP_Ant1_NTNV



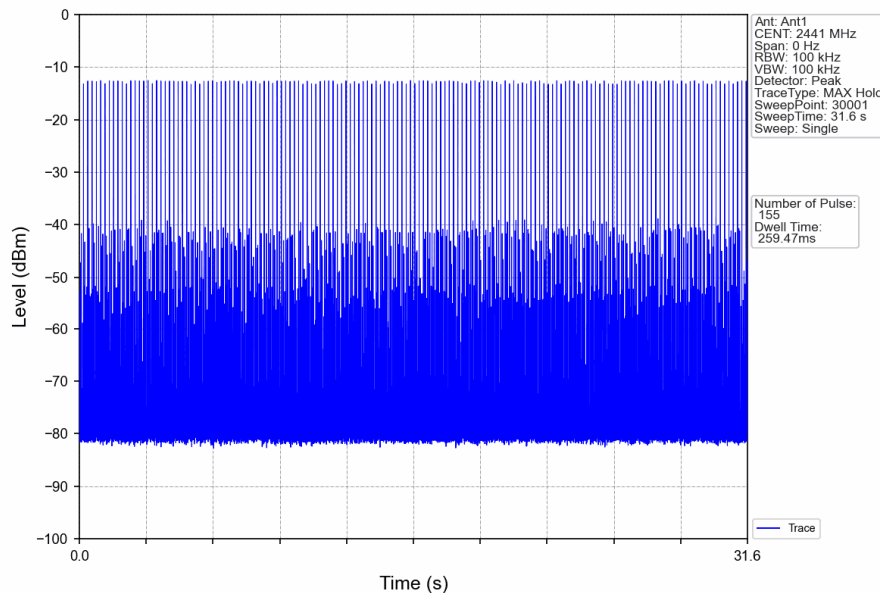
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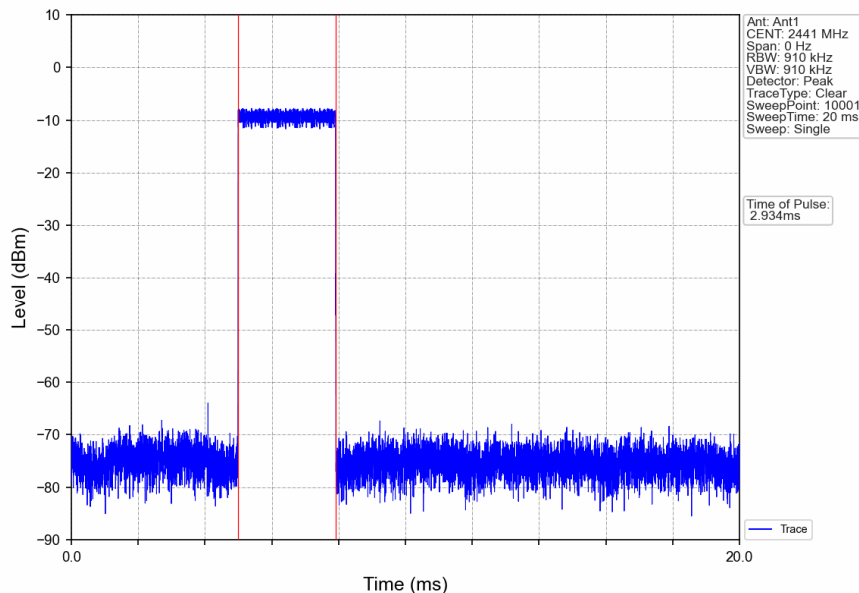
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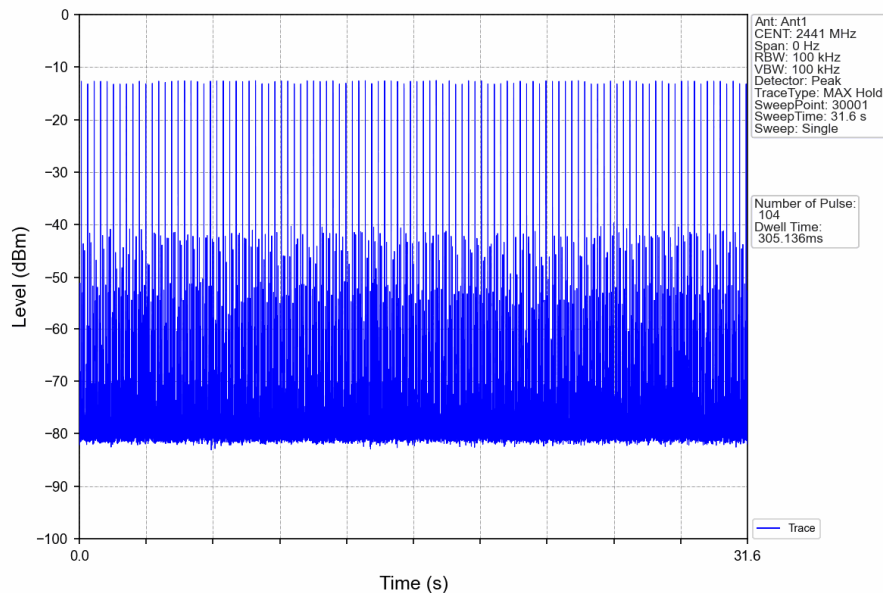
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6. Unwanted Emissions In Non-restricted Frequency Bands

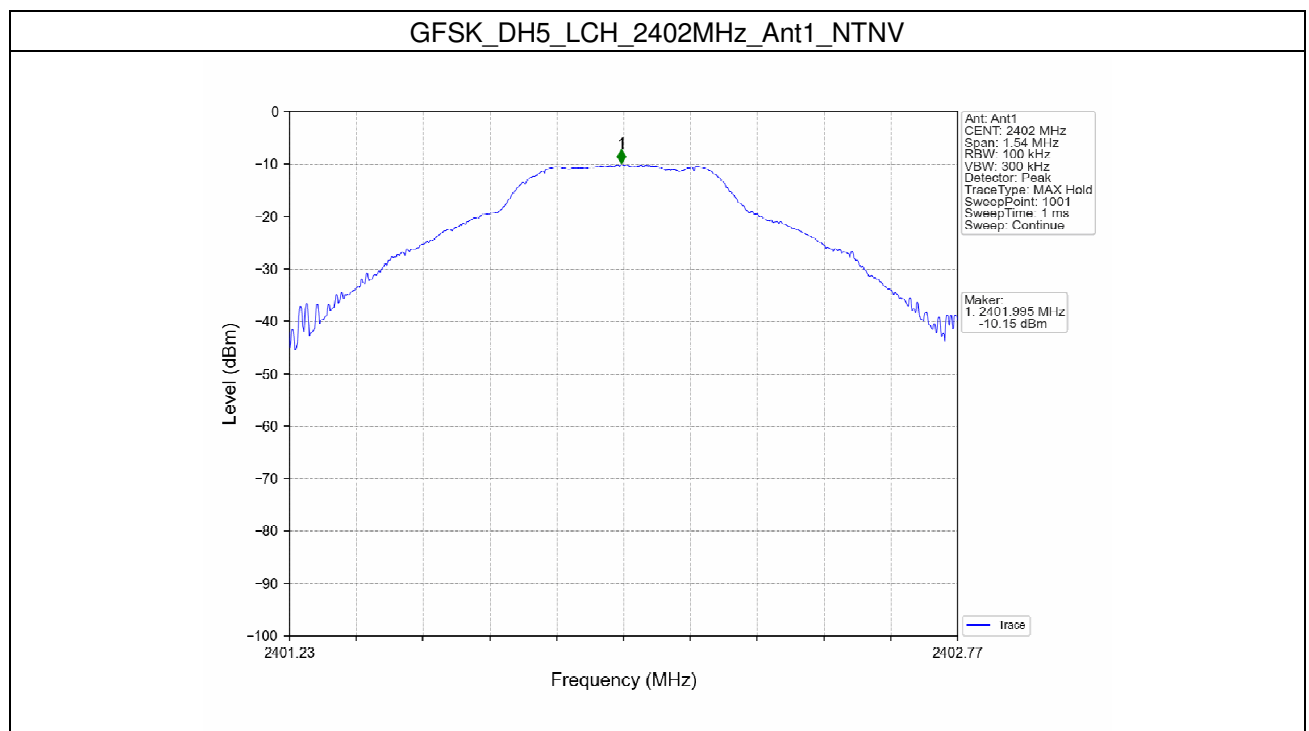
6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-10.15
		2441	DH5	1	-10.22
		2480	DH5	1	-10.20
Pi/4DQPSK	SISO	2402	2DH5	1	-11.23
		2441	2DH5	1	-11.22
		2480	2DH5	1	-11.33
8DPSK	SISO	2402	3DH5	1	-11.42
		2441	3DH5	1	-11.26
		2480	3DH5	1	-11.34

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.

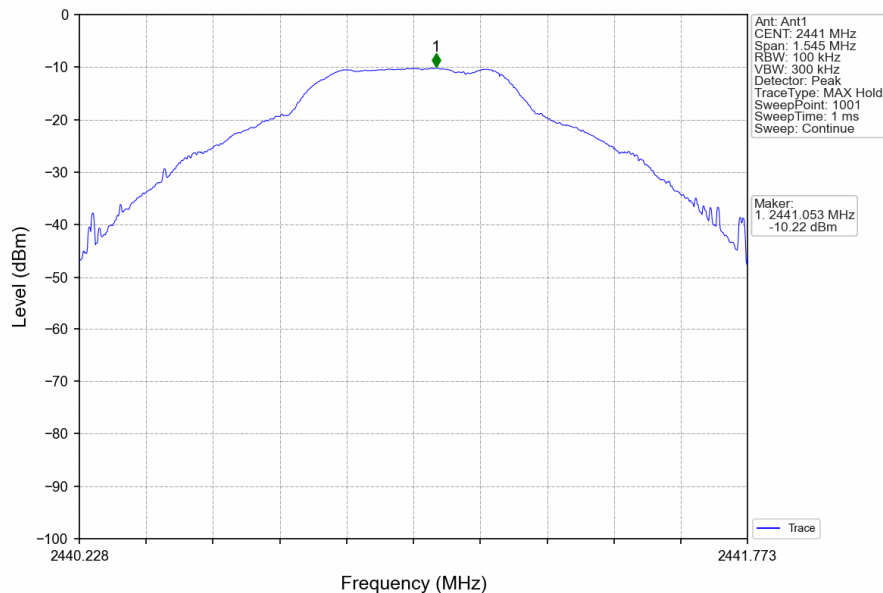
6.1.2 Test Graph



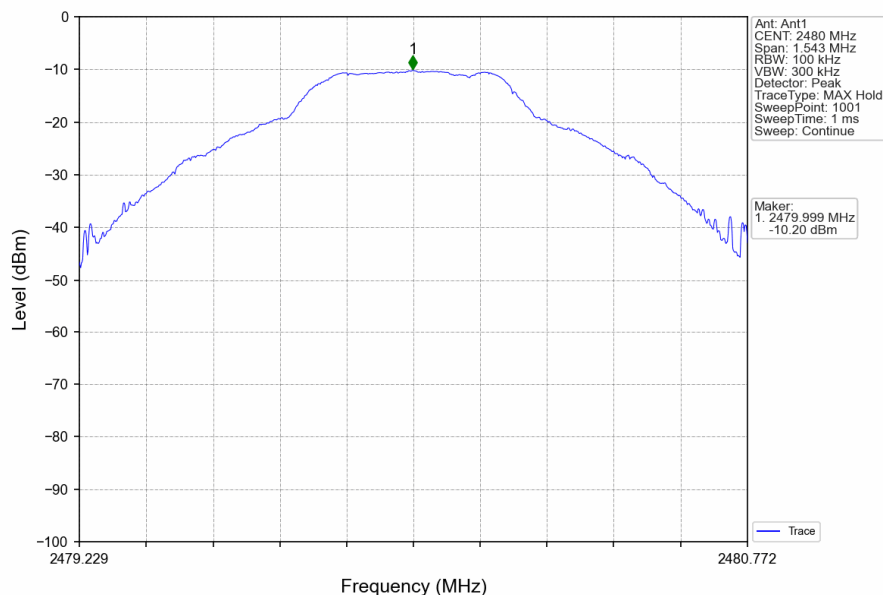
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



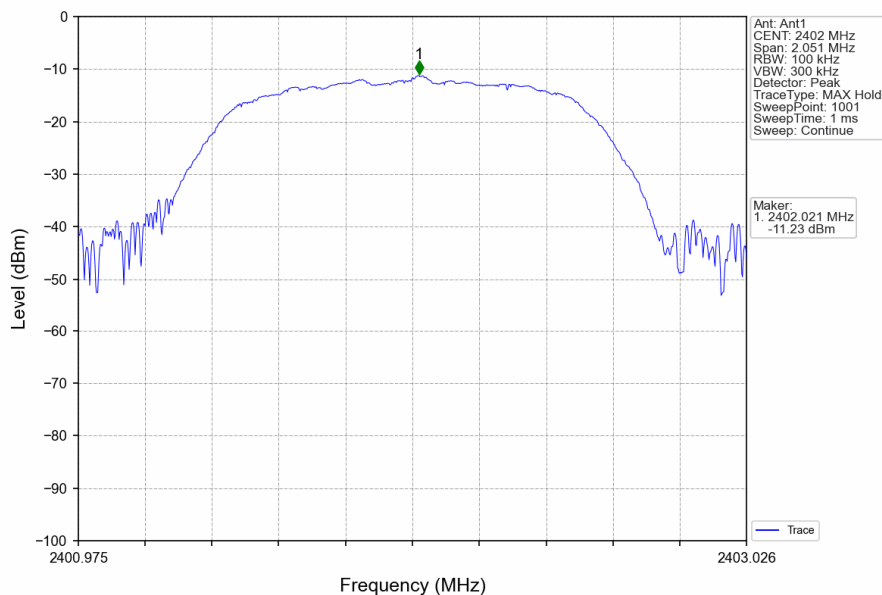
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



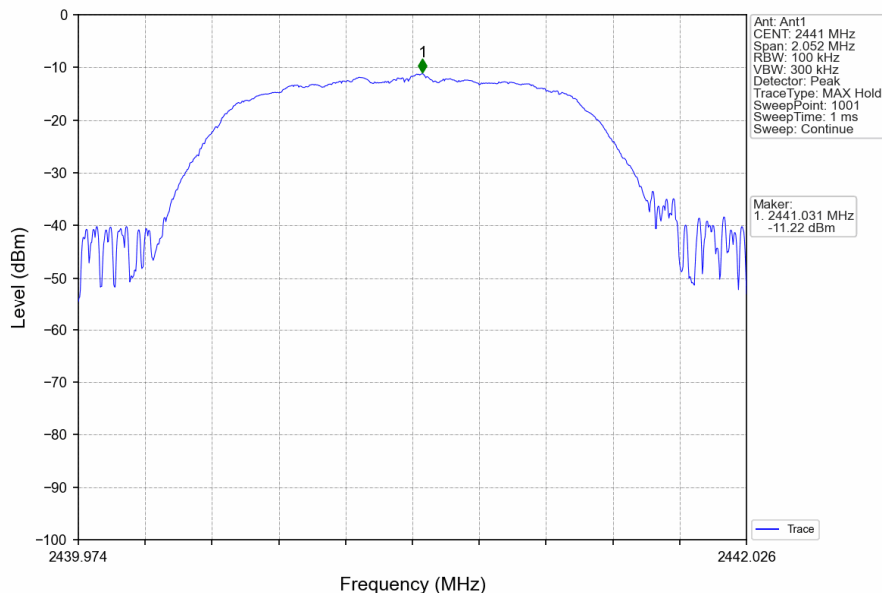
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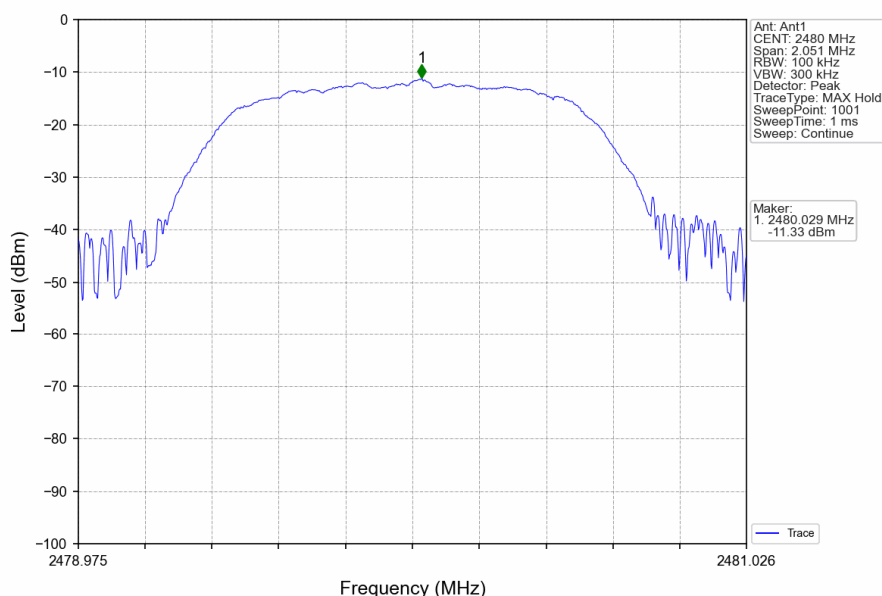
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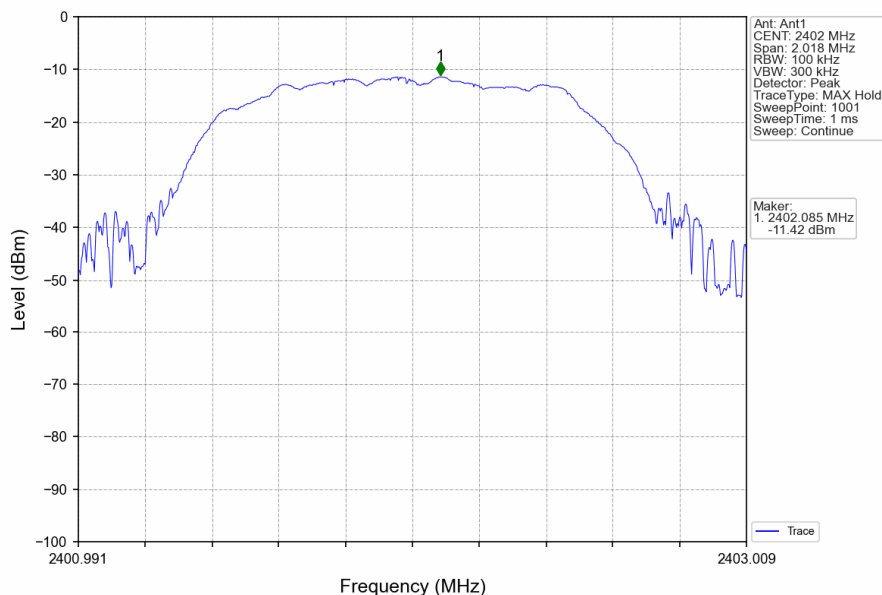
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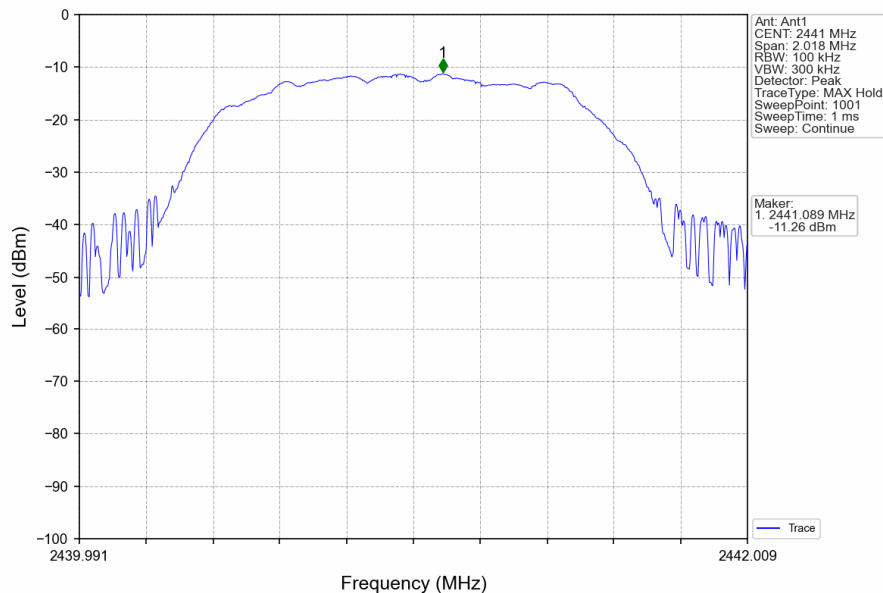
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



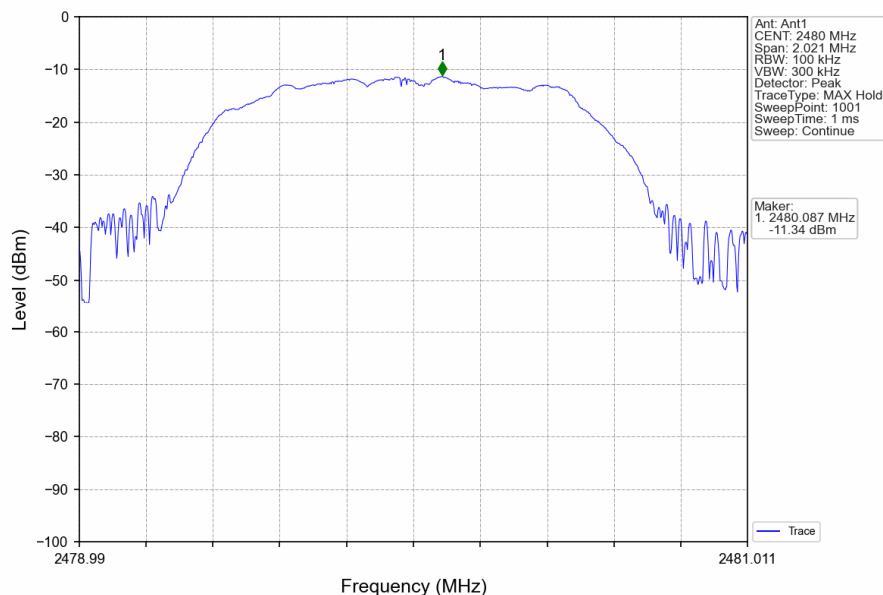
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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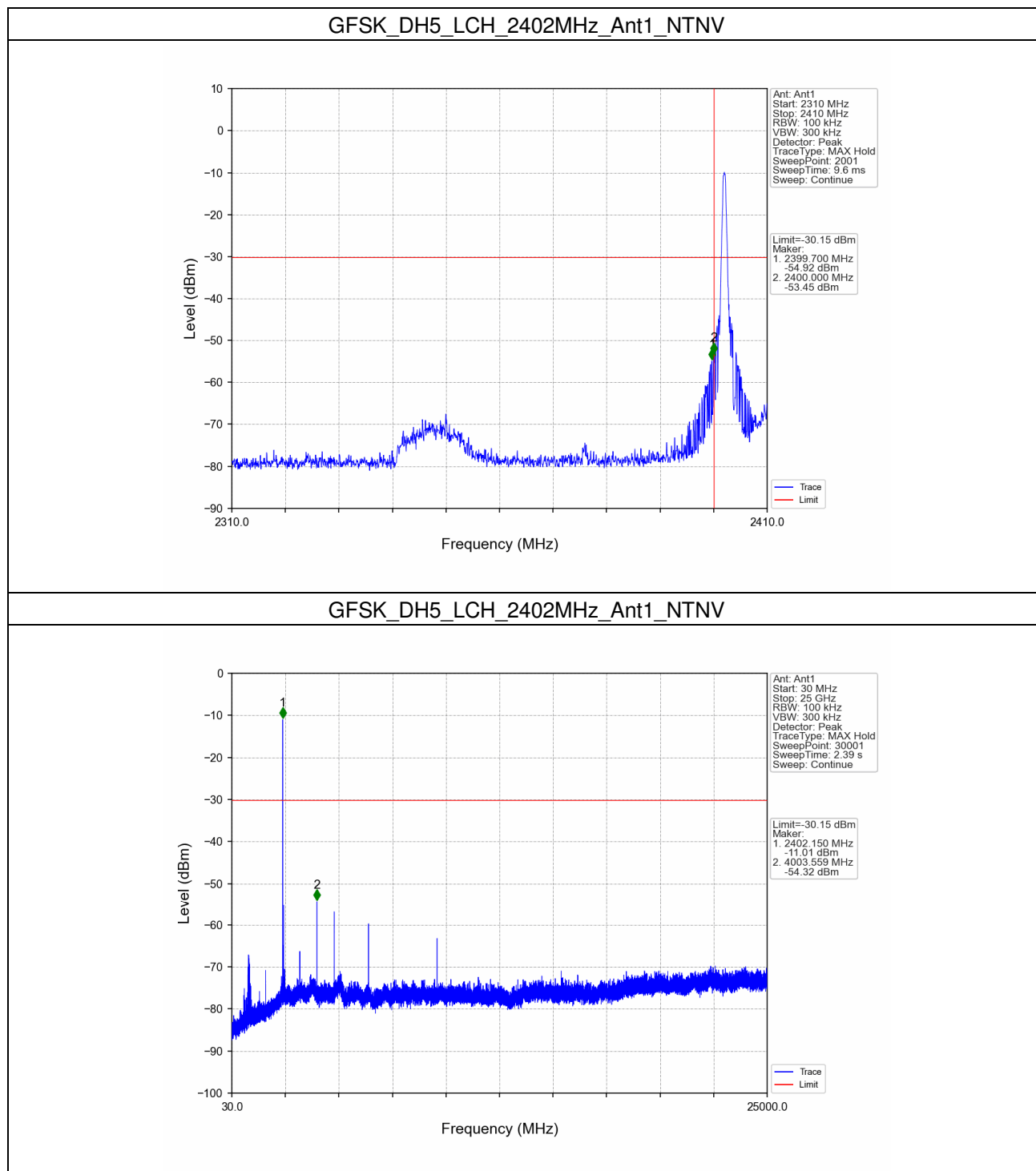
6.2 CSE and Band Edges

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	-10.15	-30.15	Pass
		2441	DH5	1	-10.15	-30.15	Pass
		2480	DH5	1	-10.15	-30.15	Pass
		HOPP	DH5	1	-10.15	-30.15	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-11.22	-31.22	Pass
		2441	2DH5	1	-11.22	-31.22	Pass
		2480	2DH5	1	-11.22	-31.22	Pass
		HOPP	2DH5	1	-11.22	-31.22	Pass
8DPSK	SISO	2402	3DH5	1	-11.26	-31.26	Pass
		2441	3DH5	1	-11.26	-31.26	Pass
		2480	3DH5	1	-11.26	-31.26	Pass
		HOPP	3DH5	1	-11.26	-31.26	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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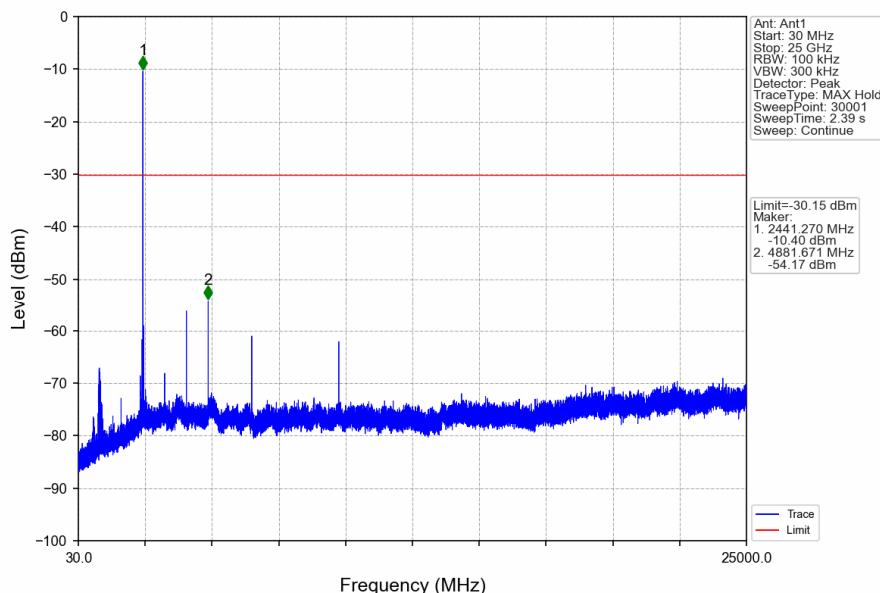
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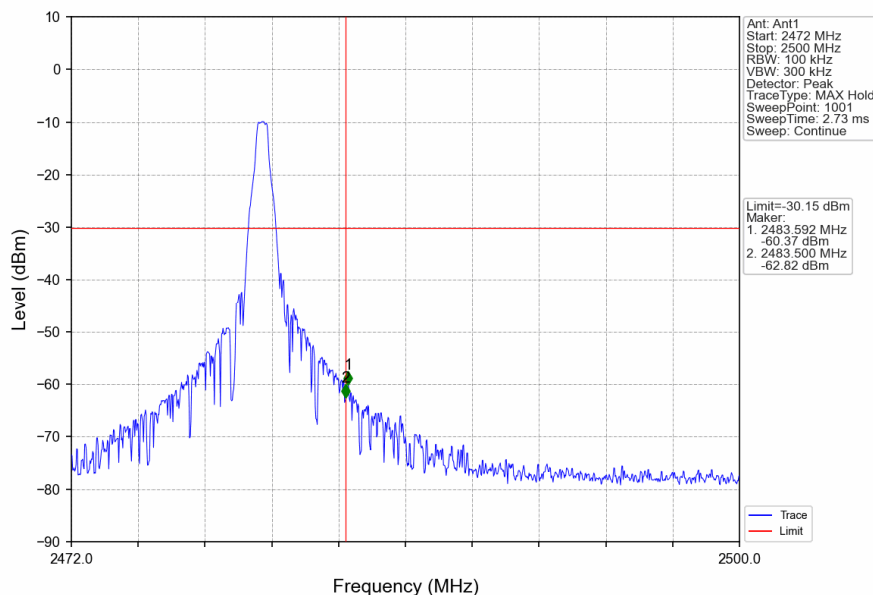
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



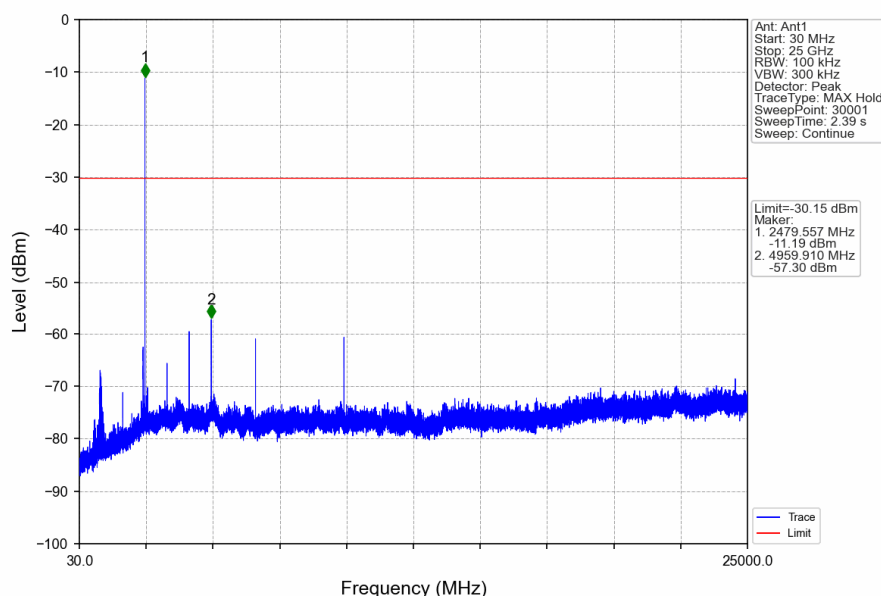
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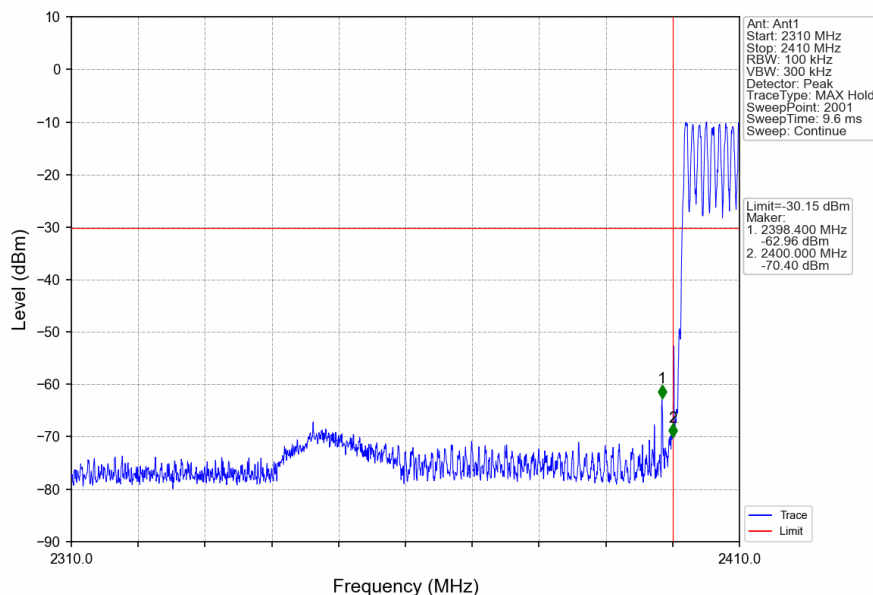
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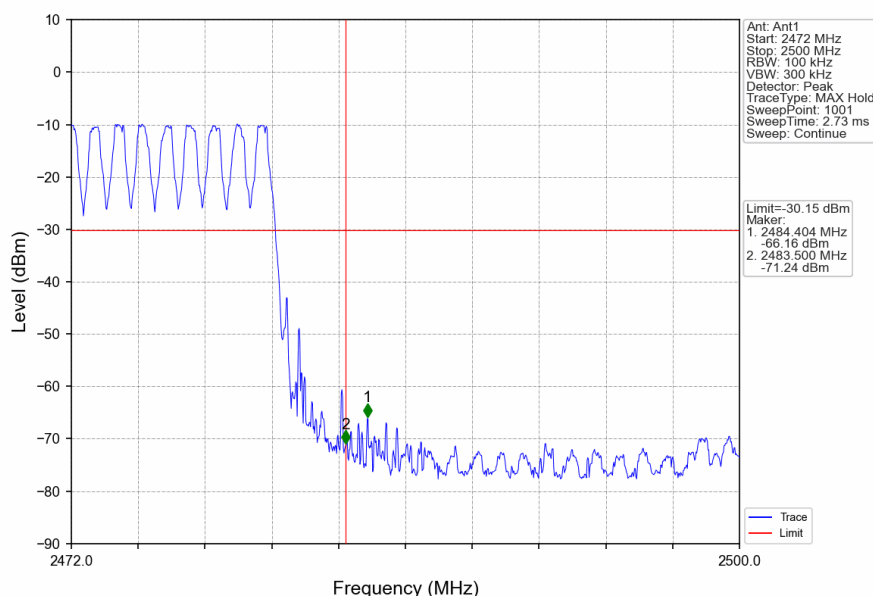
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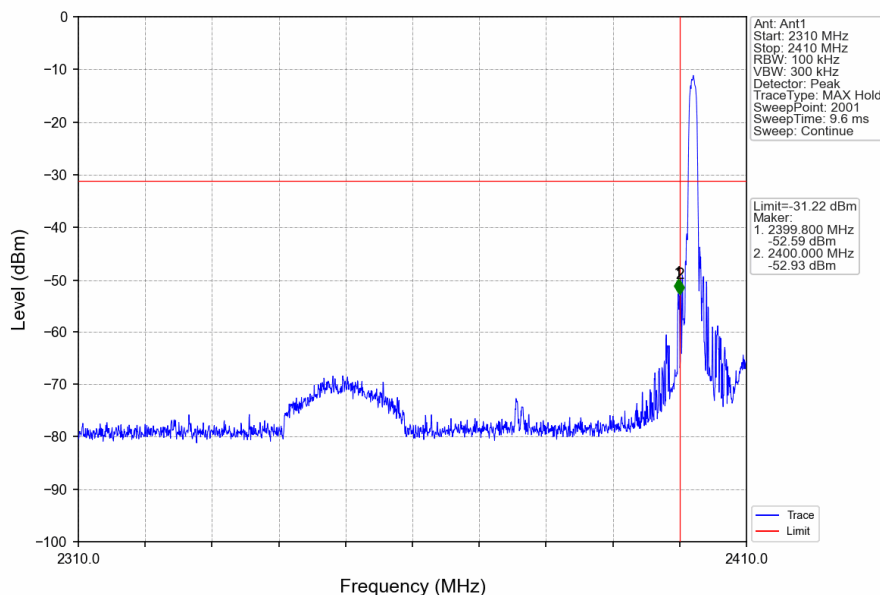
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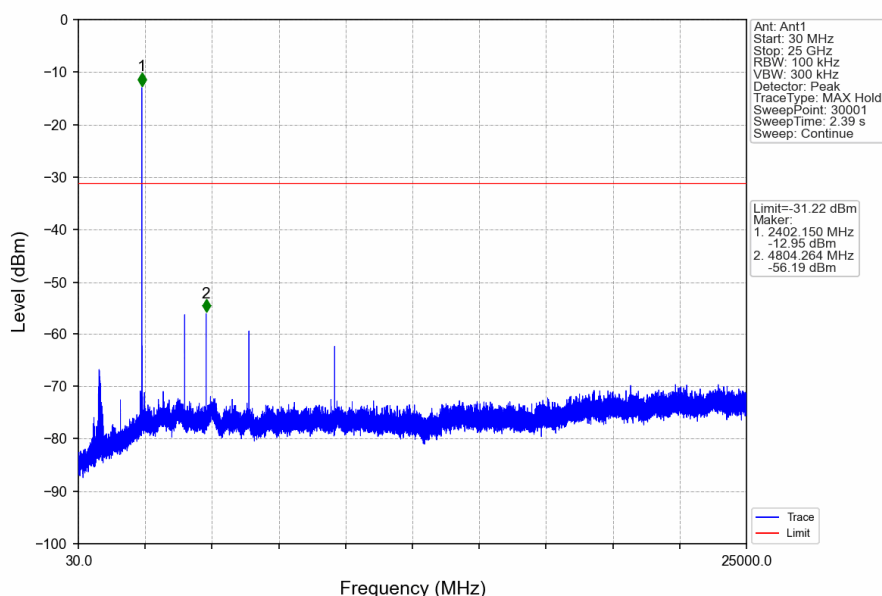
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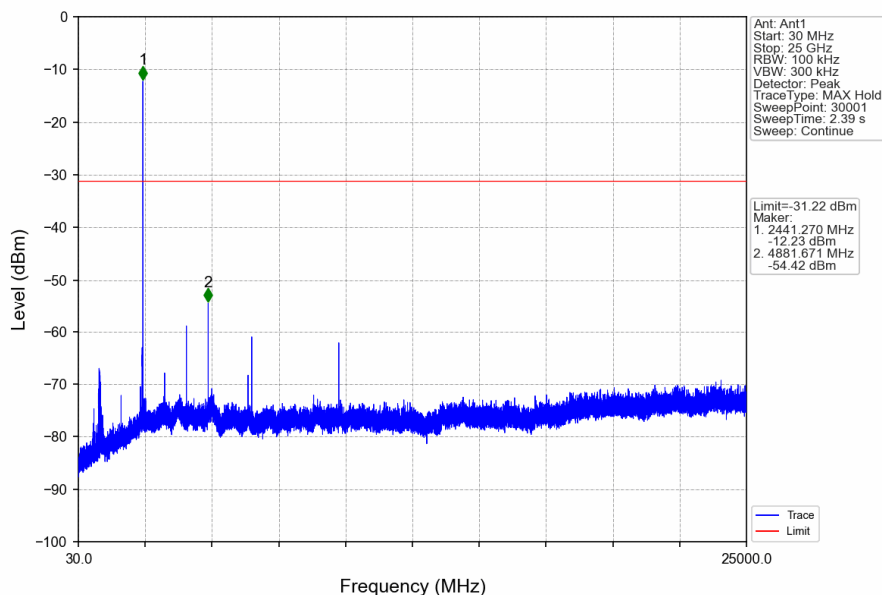
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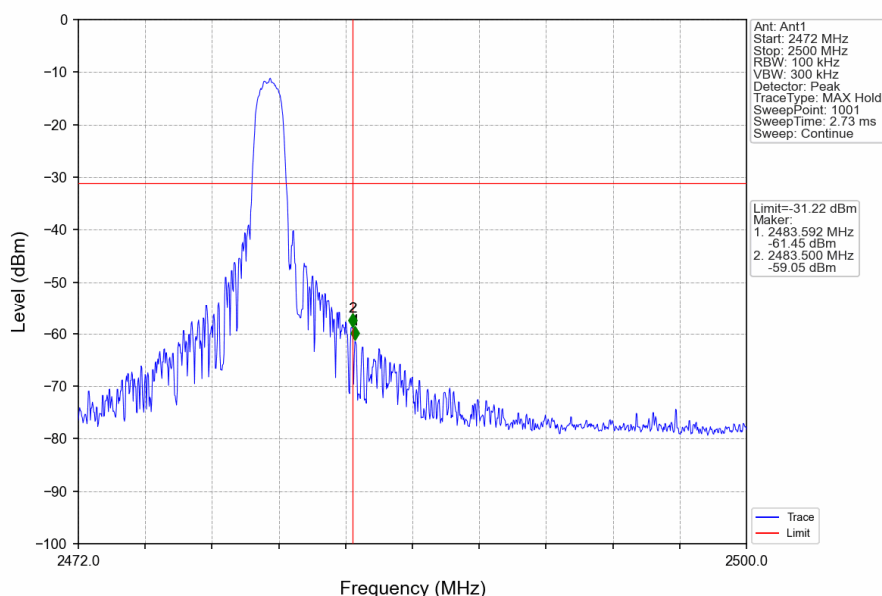
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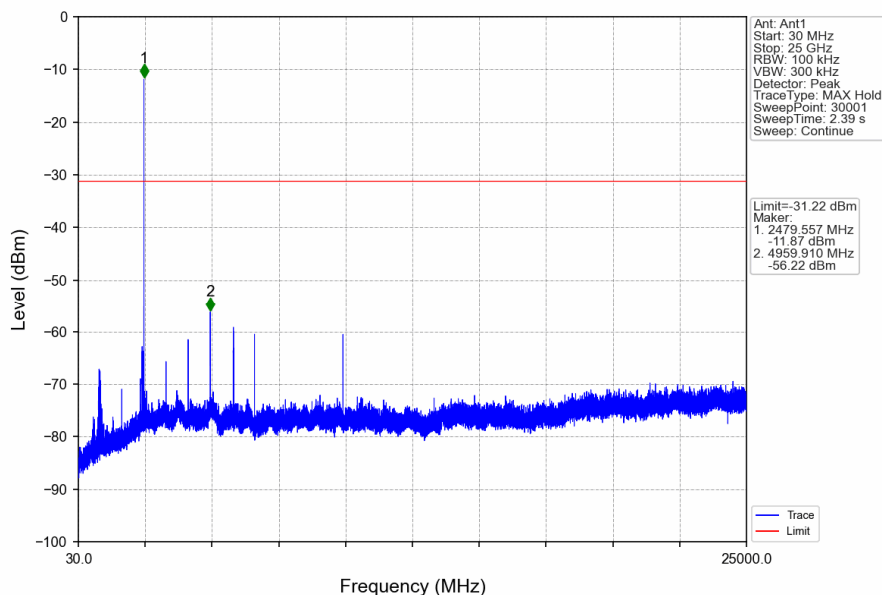
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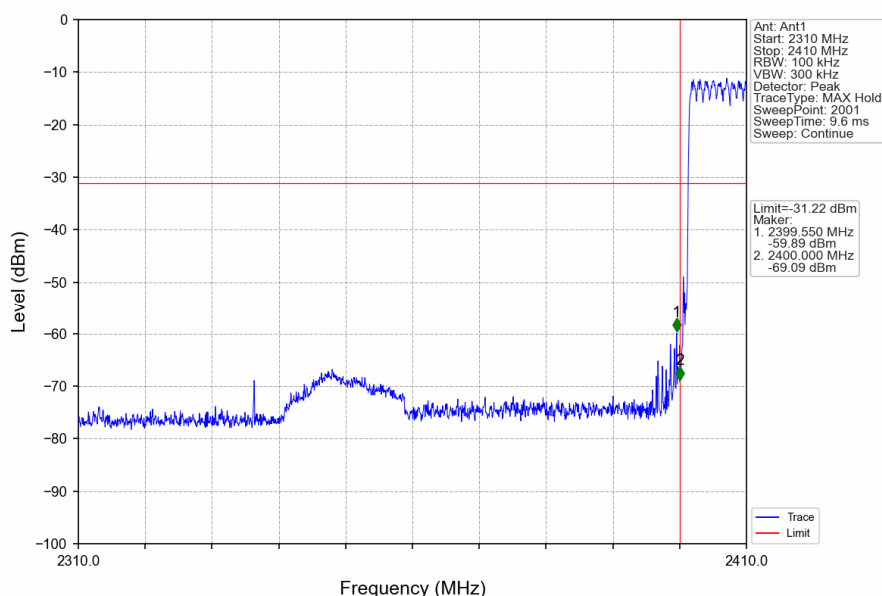
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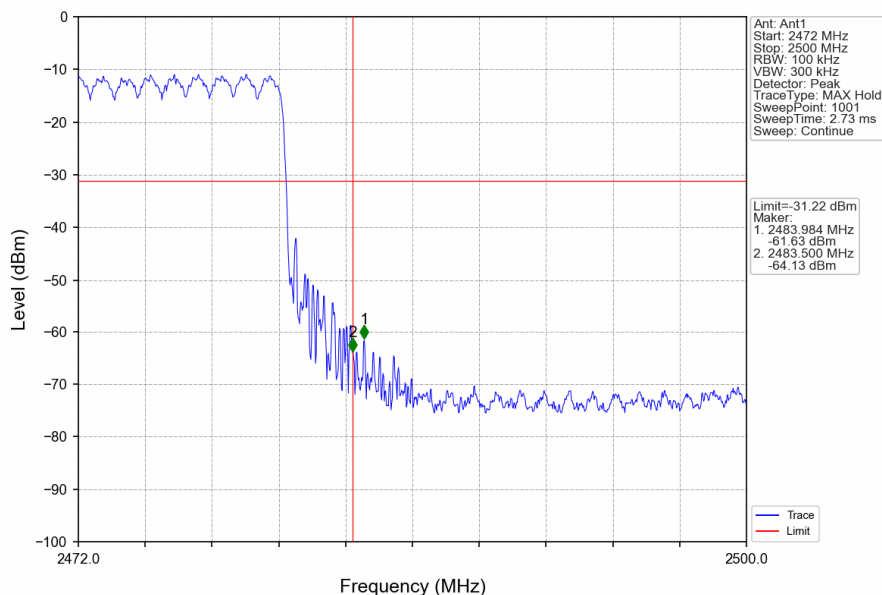
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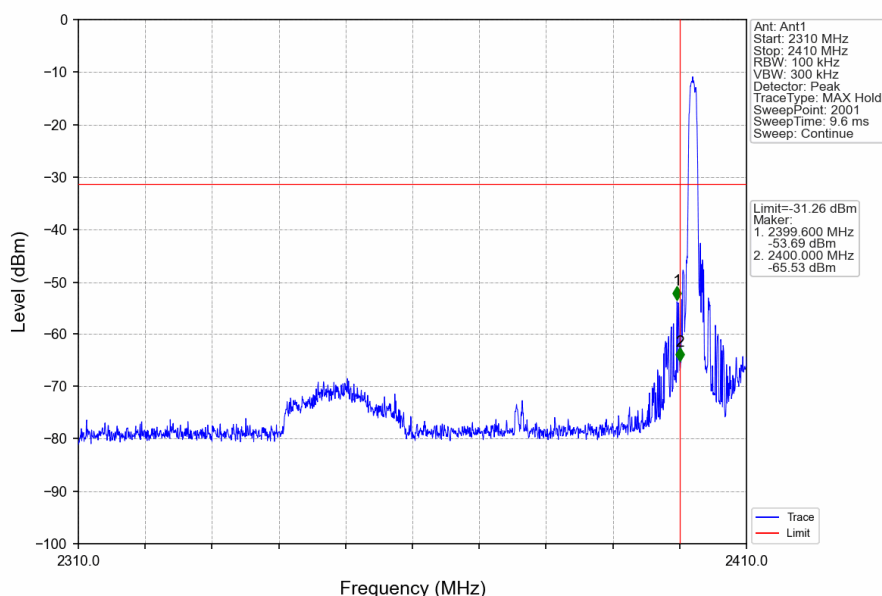
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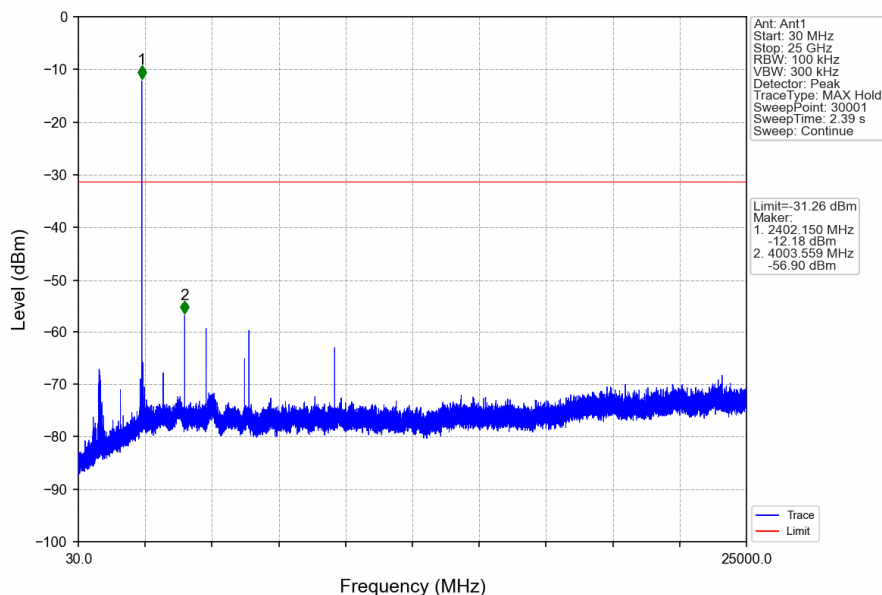
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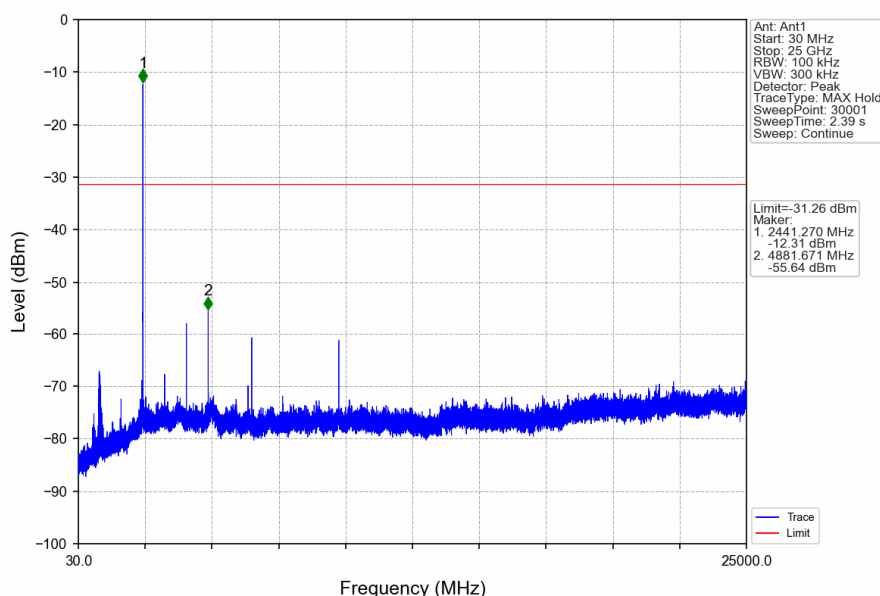
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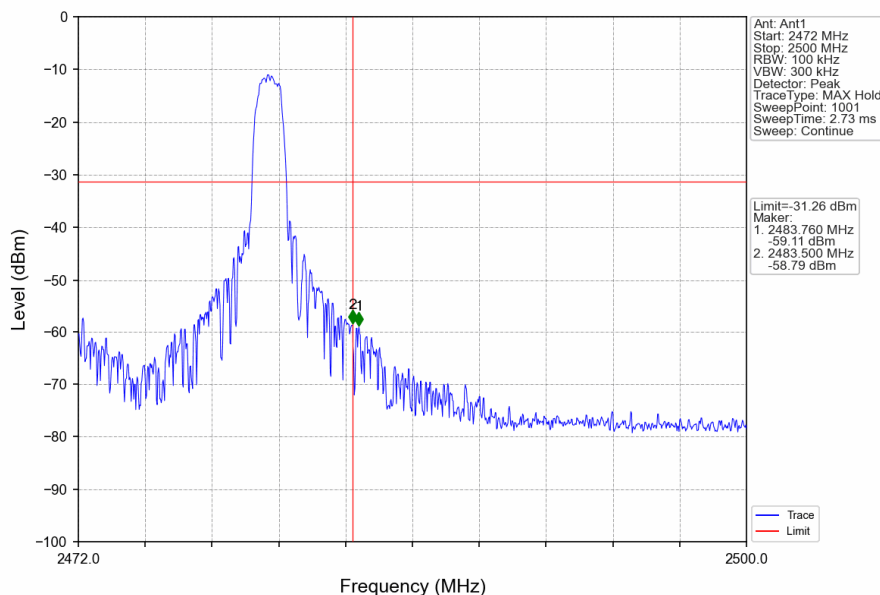
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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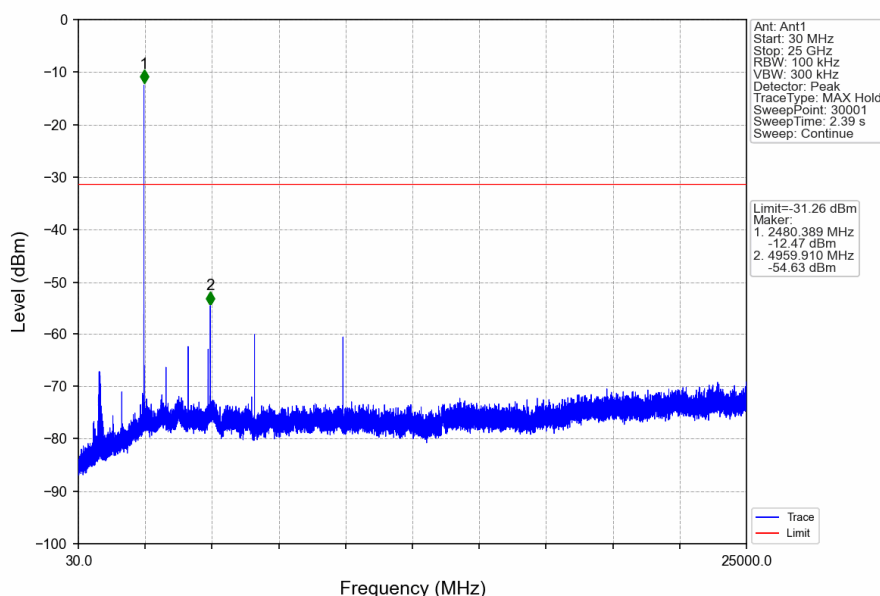
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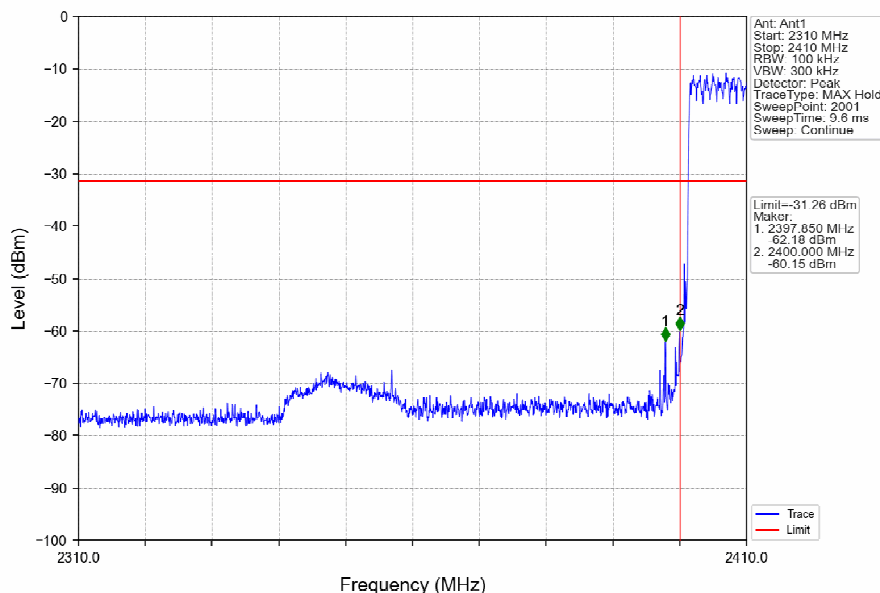
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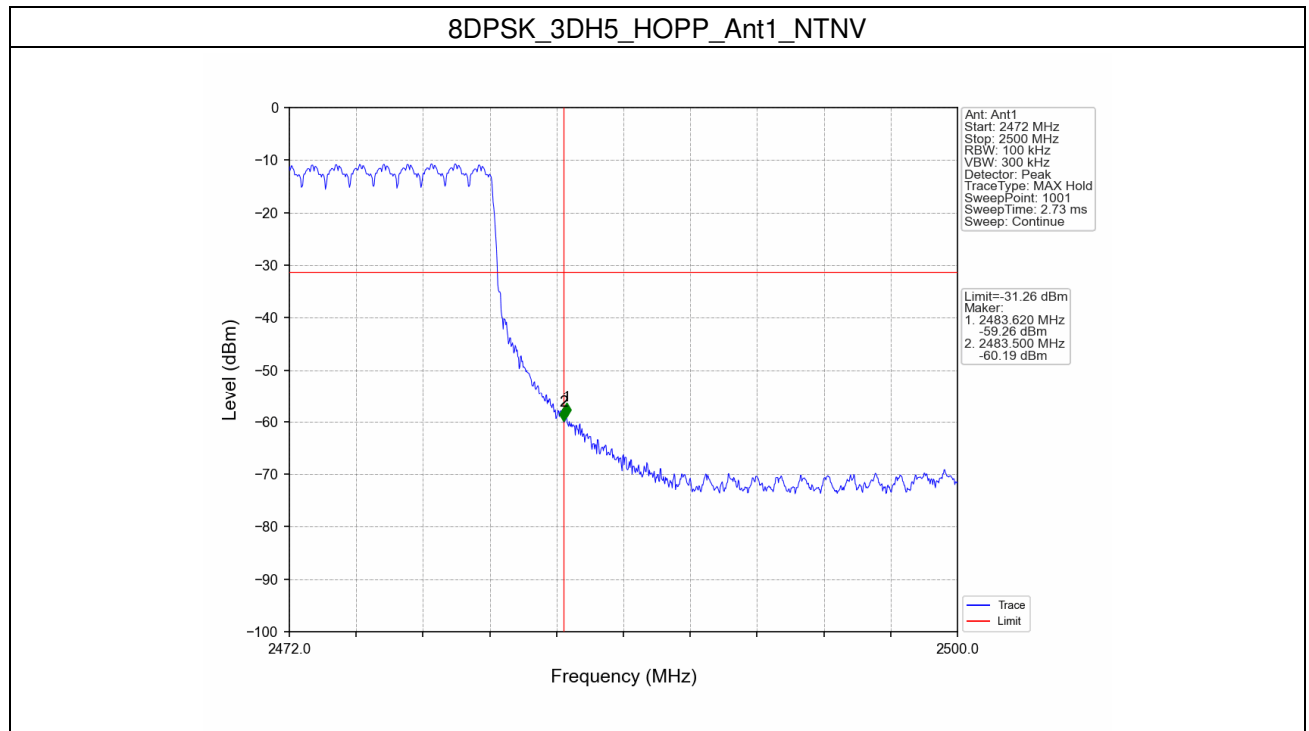
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- End of the Report -