

10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.935	/	Pass
		2441	DH5	1	0.938	/	Pass
		2480	DH5	1	0.938	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.308	/	Pass
		2441	2DH5	1	1.309	/	Pass
		2480	2DH5	1	1.308	/	Pass
8DPSK	SISO	2402	3DH5	1	1.236	/	Pass
		2441	3DH5	1	1.236	/	Pass
		2480	3DH5	1	1.230	/	Pass



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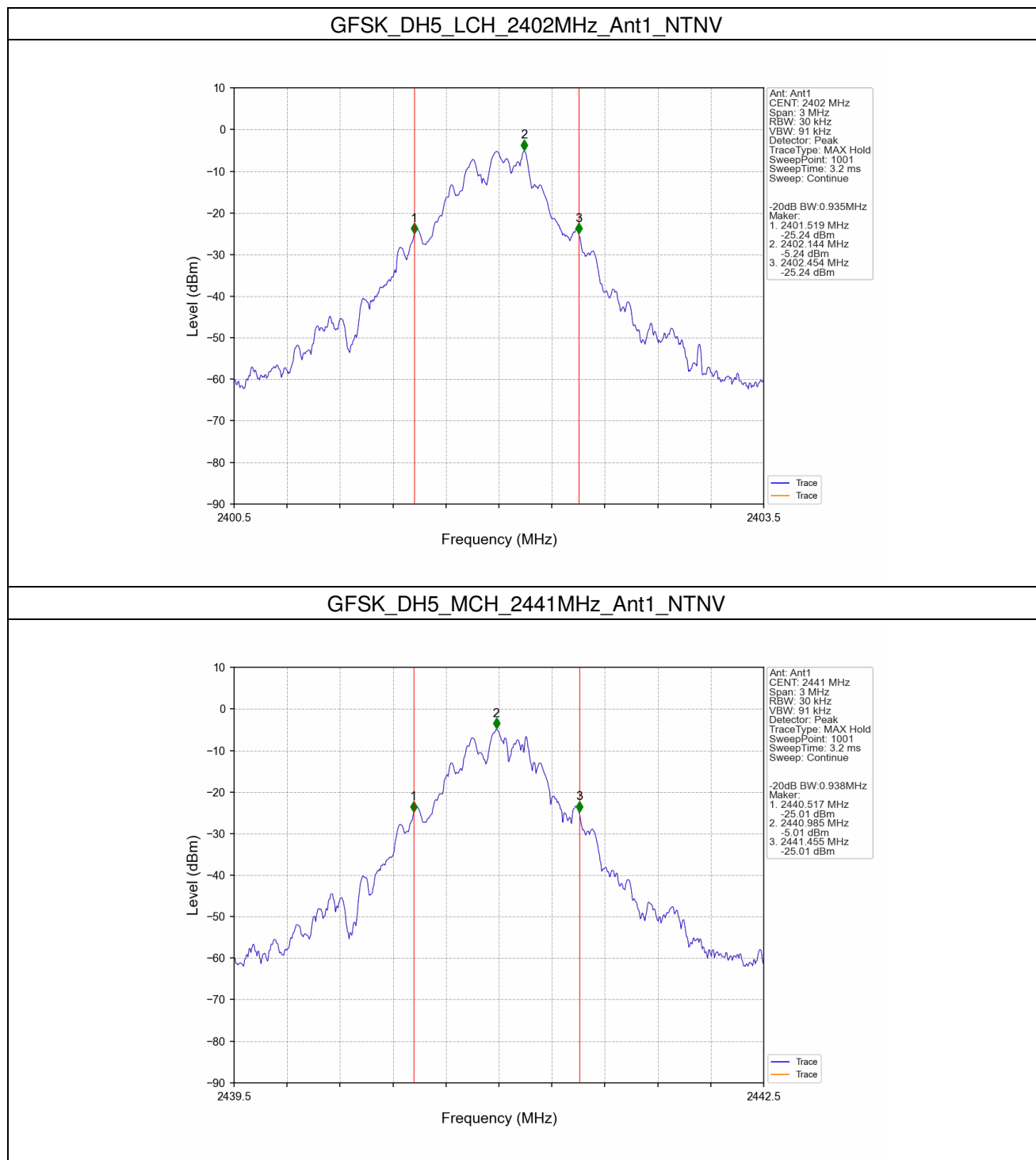
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1.2 Test Graph

1.2.2 20dB BW



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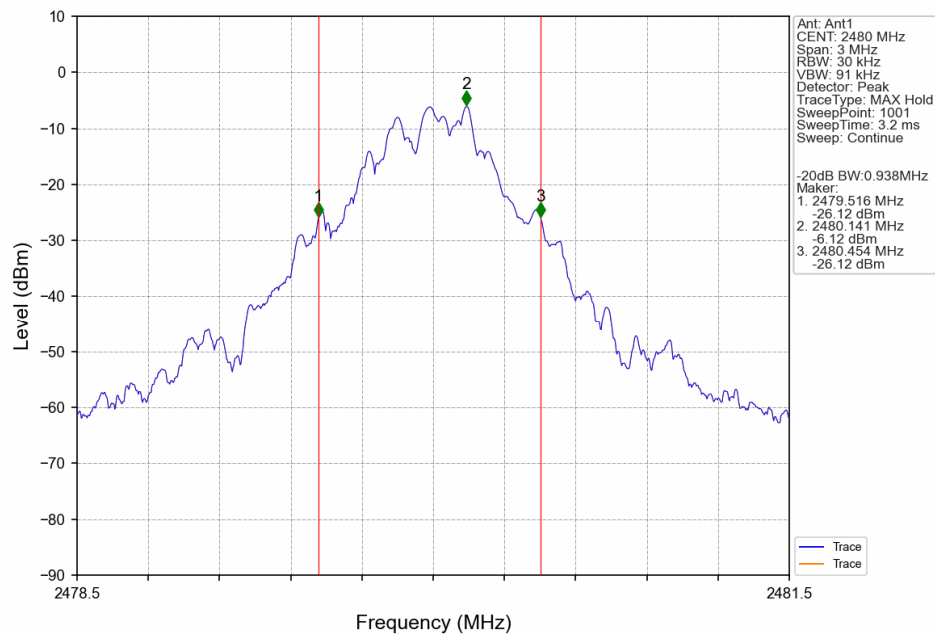
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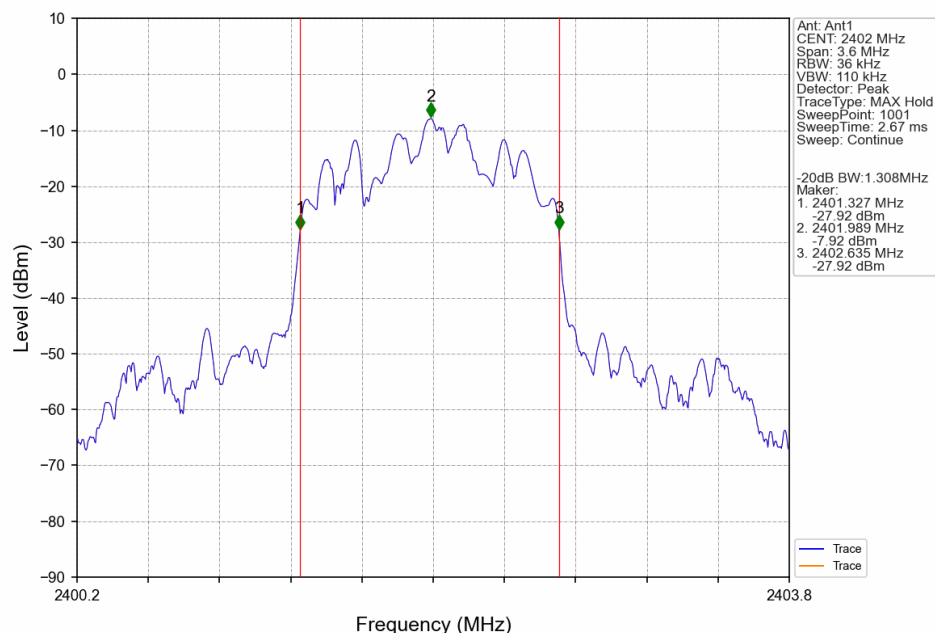
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



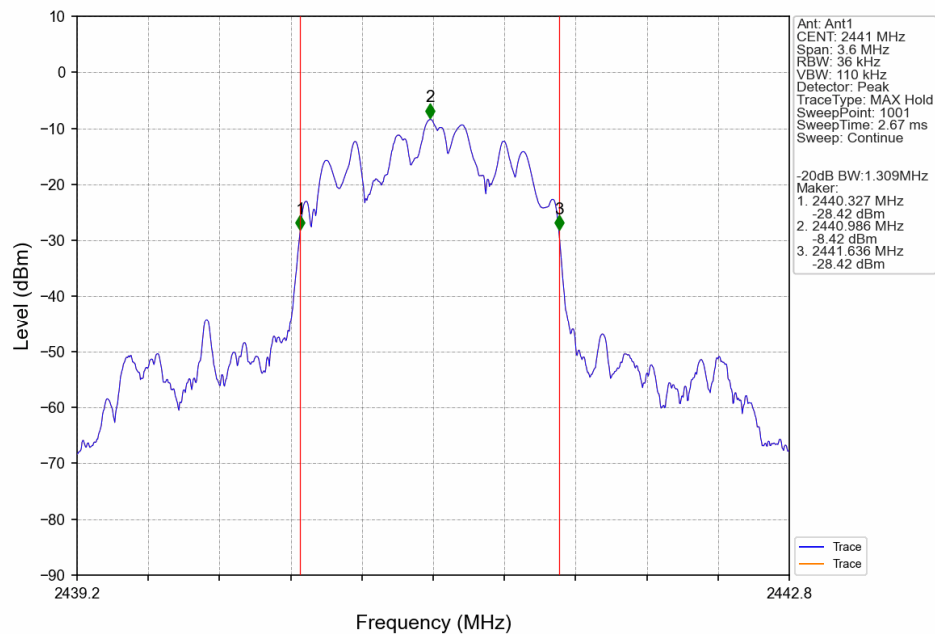
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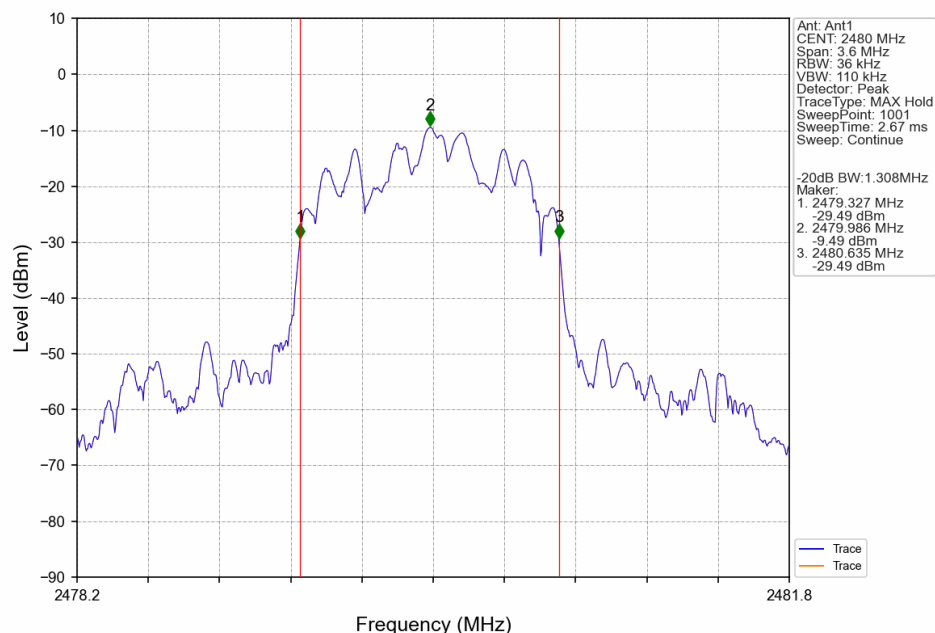
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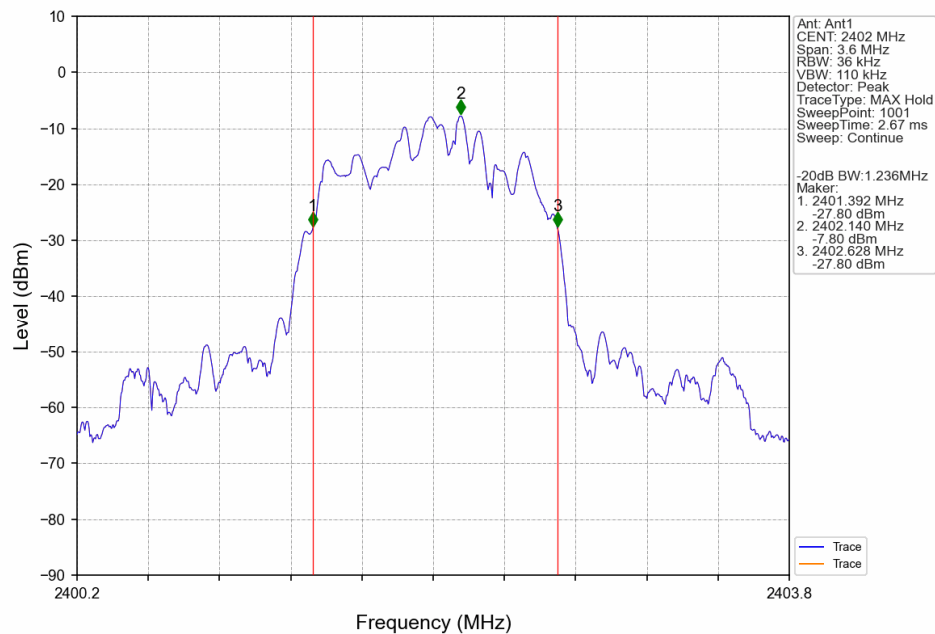
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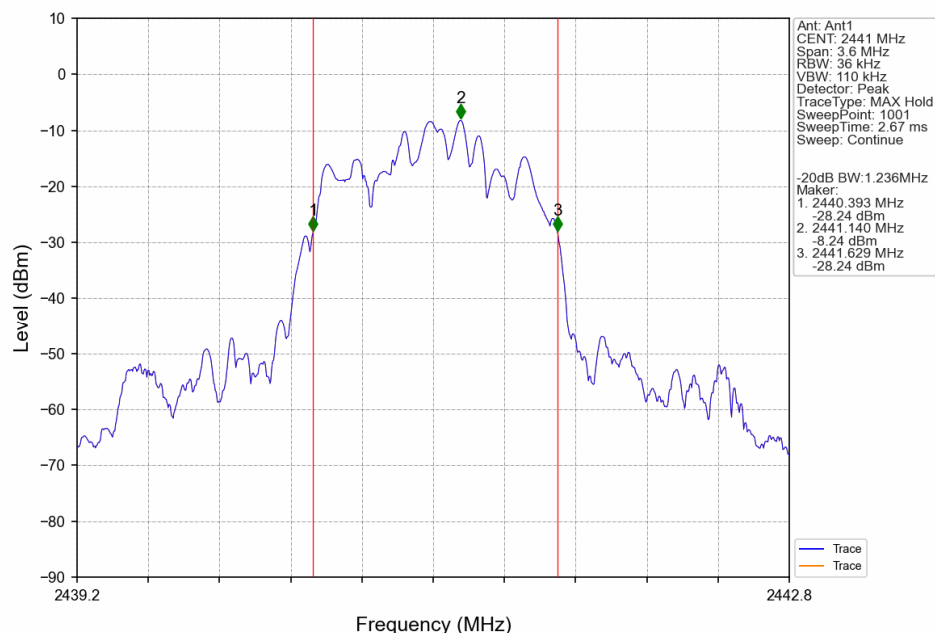
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

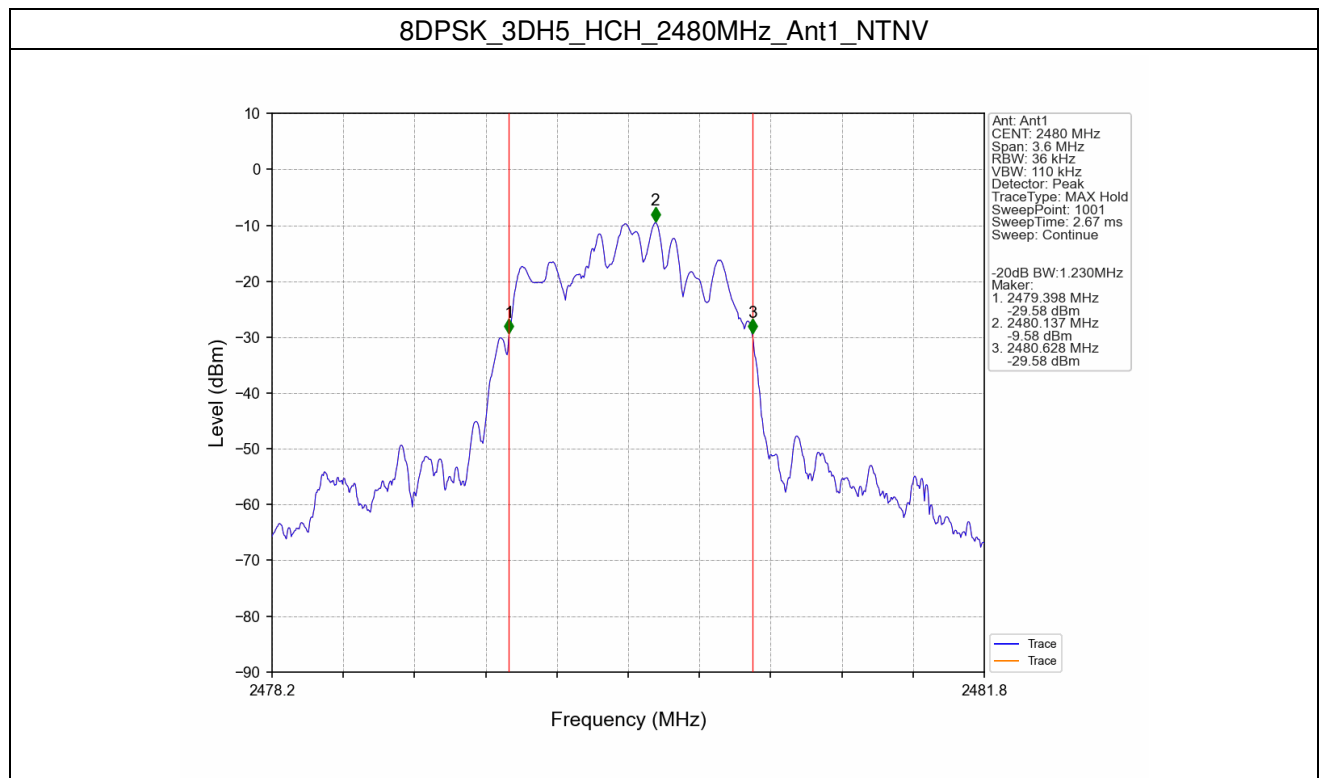


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-2.51	<=30	Pass
		2441	DH5	-2.17	<=30	Pass
		2480	DH5	-3.33	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-3.55	<=20.97	Pass
		2441	2DH5	-4.07	<=20.97	Pass
		2480	2DH5	-5.17	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-2.65	<=20.97	Pass
		2441	3DH5	-3.14	<=20.97	Pass
		2480	3DH5	-4.46	<=20.97	Pass

Note1: Antenna Gain: Ant1: 3.73dBi;



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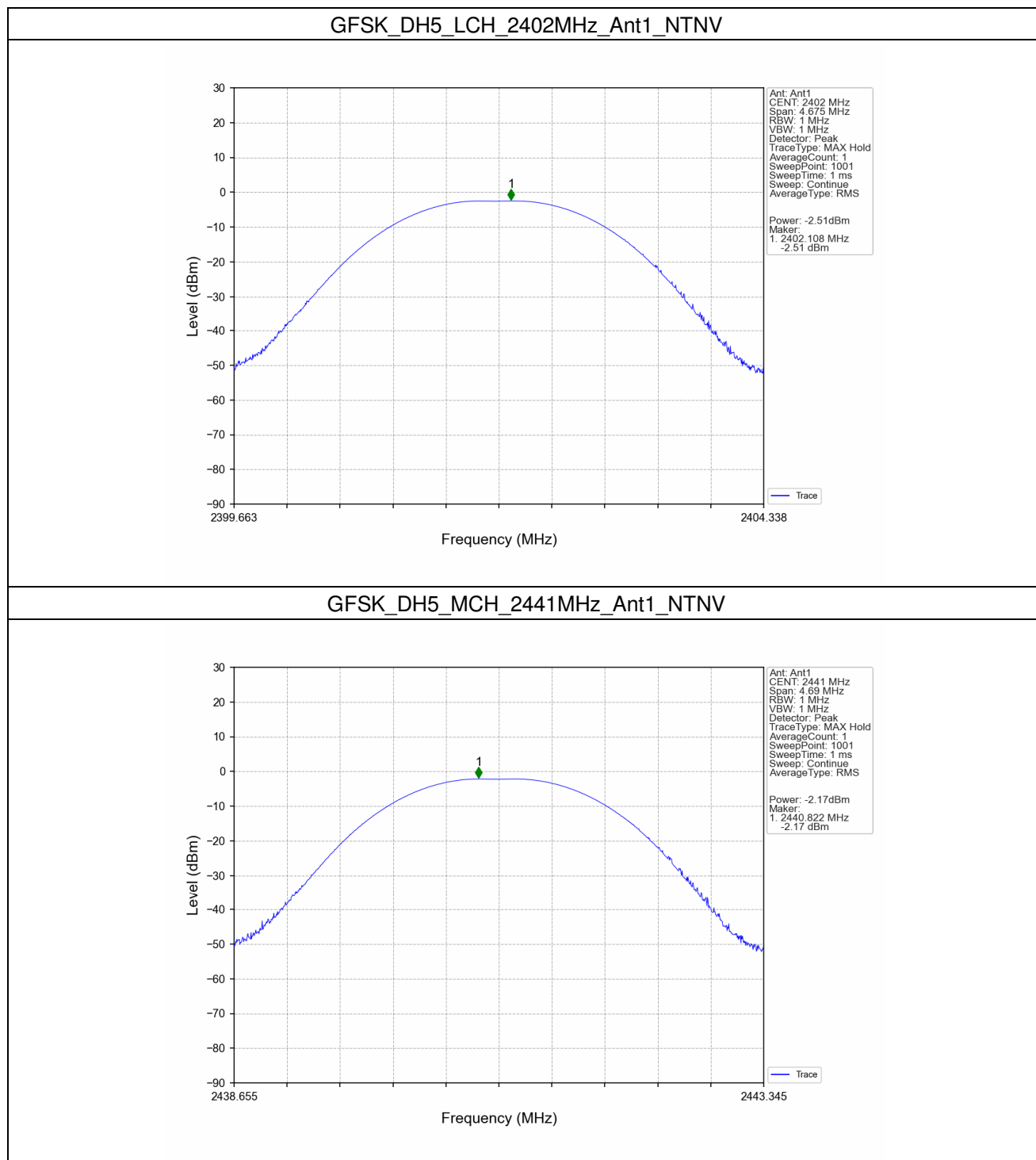
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2.2 Test Graph

2.2.1 Power



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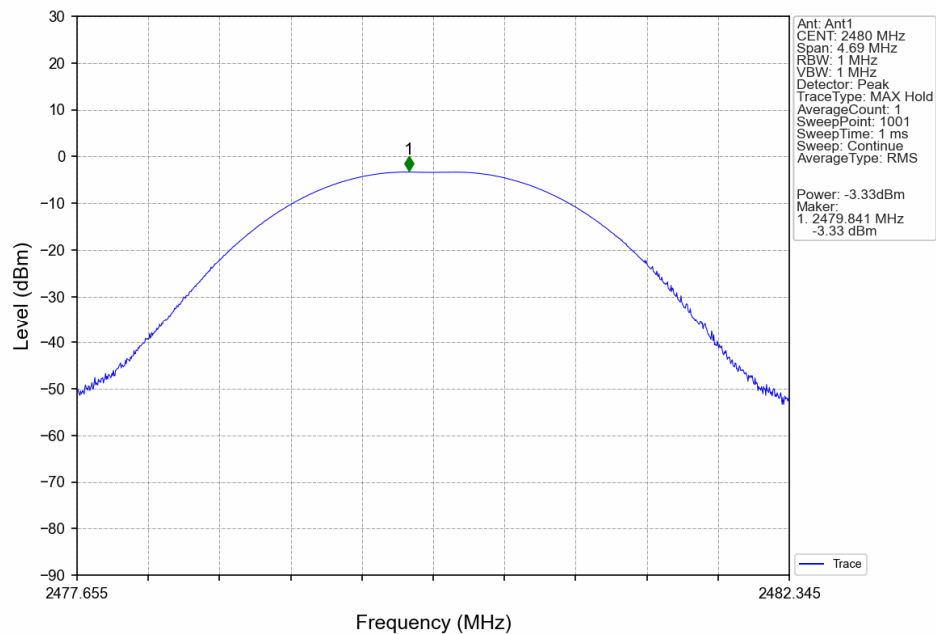
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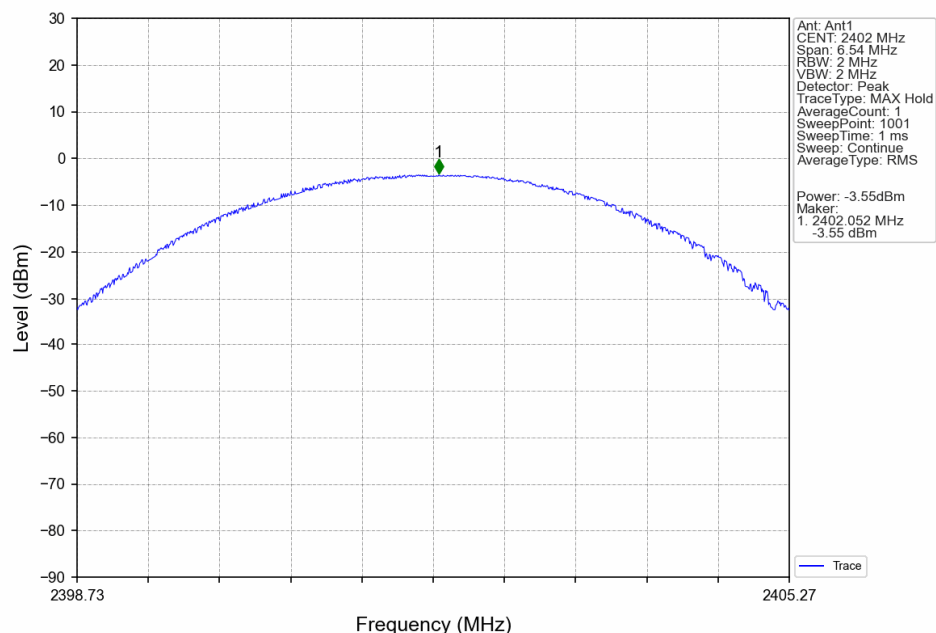
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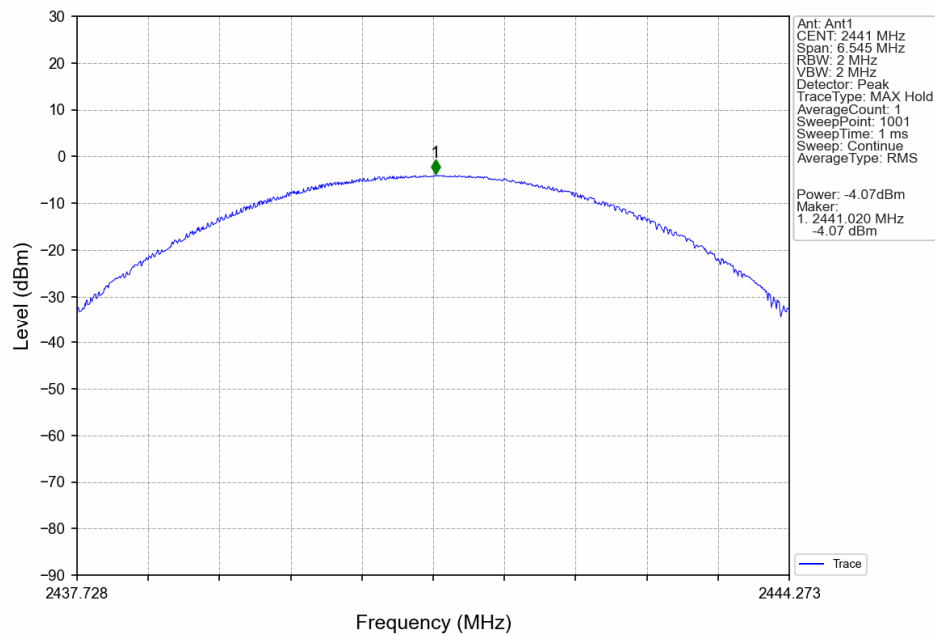
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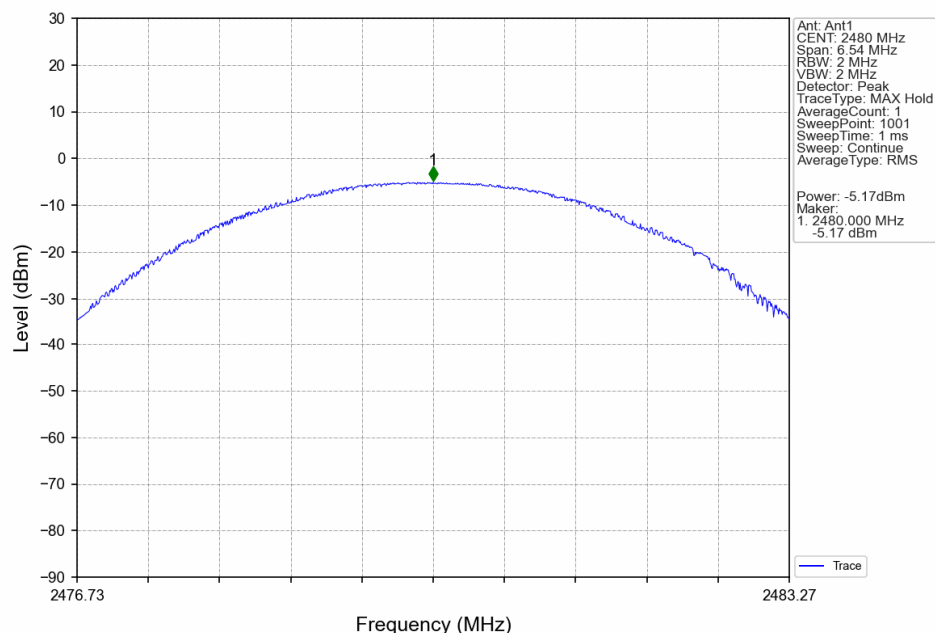
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



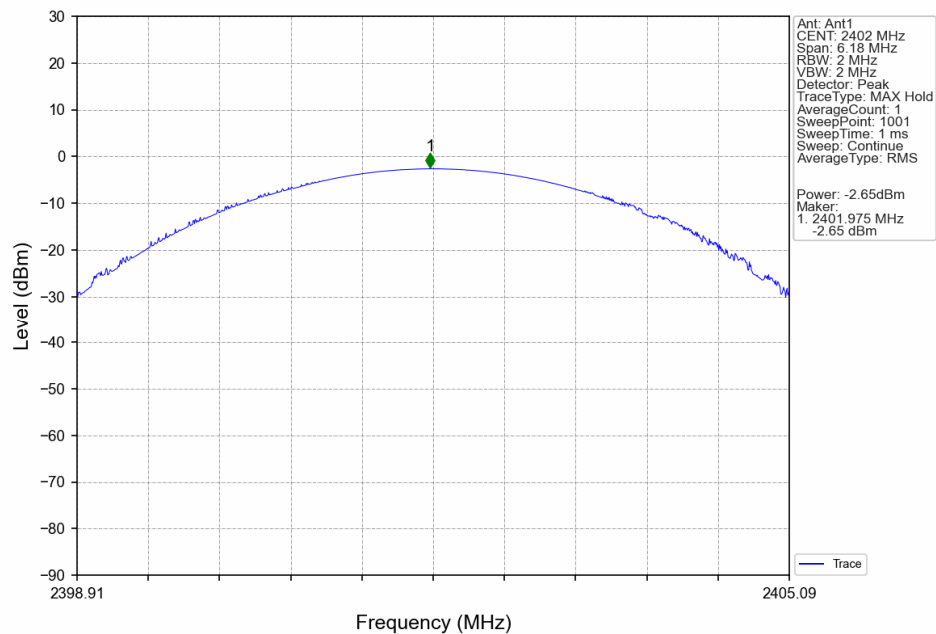
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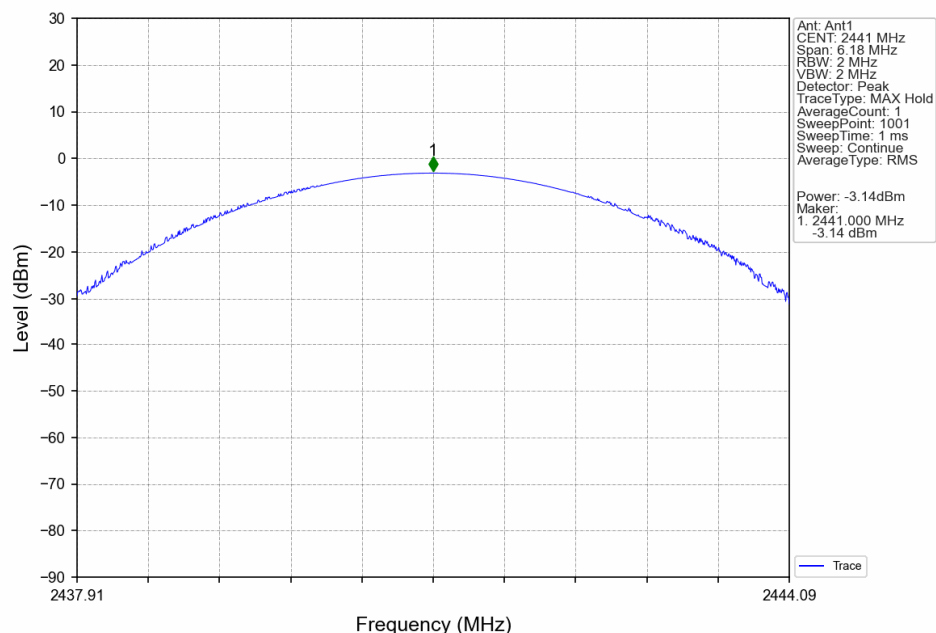
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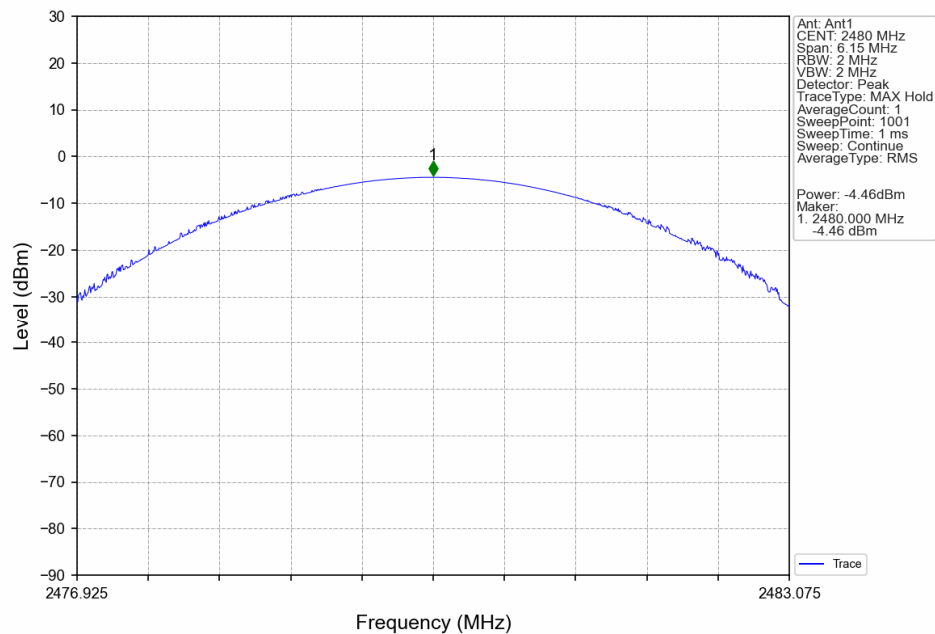
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.982	0.938	≥ 0.938	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.006	1.309	≥ 0.873	Pass
8DPSK	SISO	HOPP	3DH5	0.998	1.236	≥ 0.824	Pass



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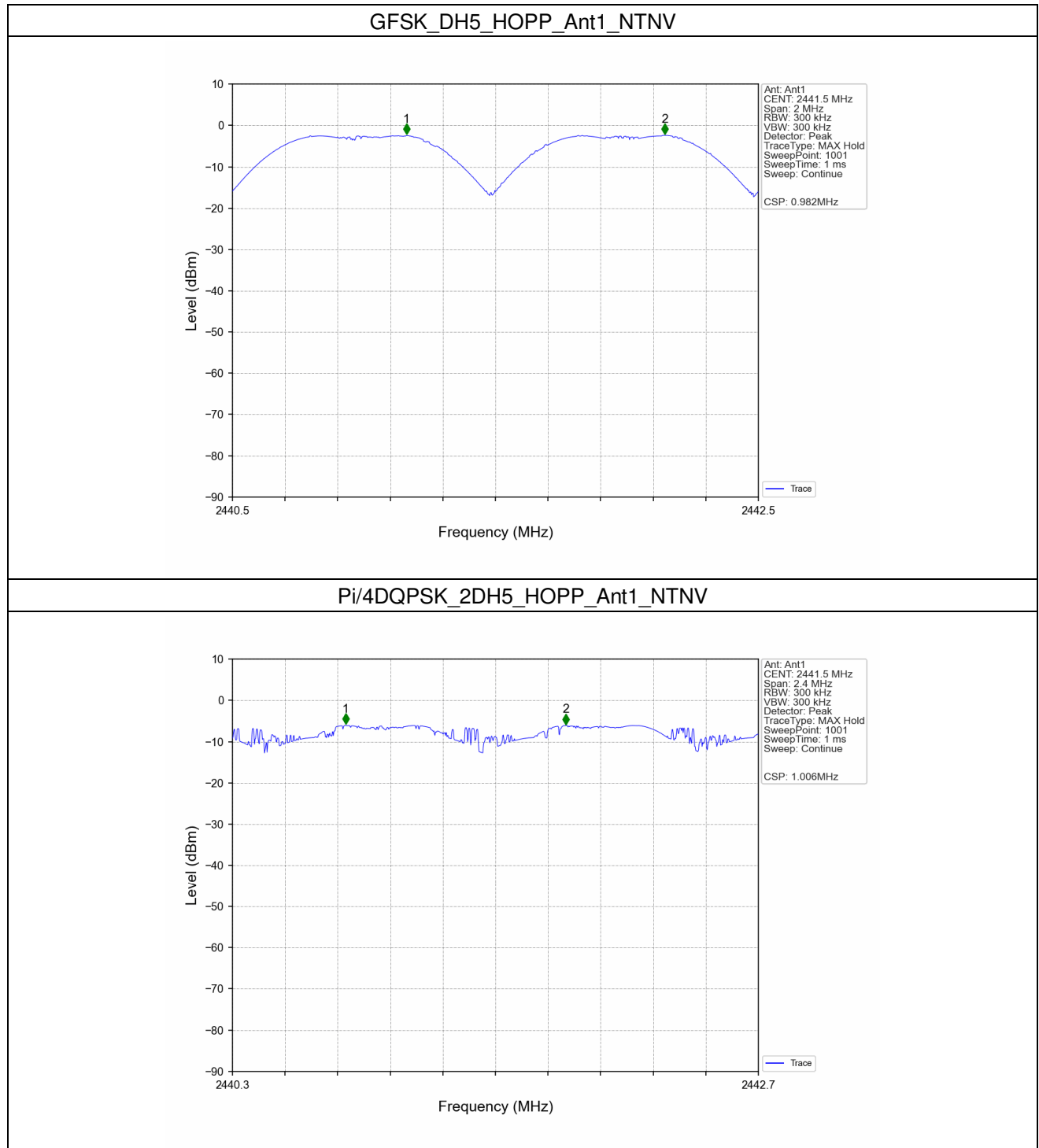
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3.2 Test Graph

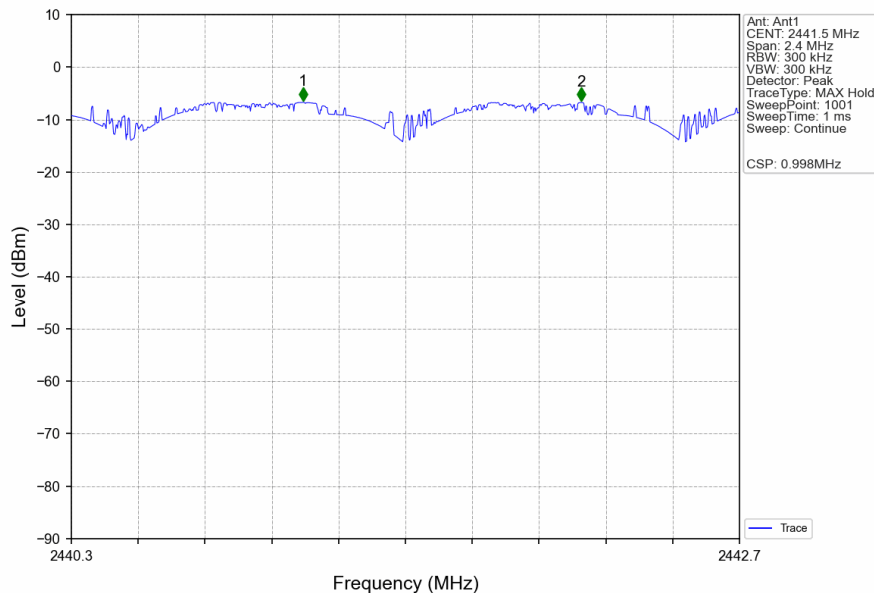
3.2.1 Ant1



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8DPSK_3DH5_HOPP_Ant1_NTNV



4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

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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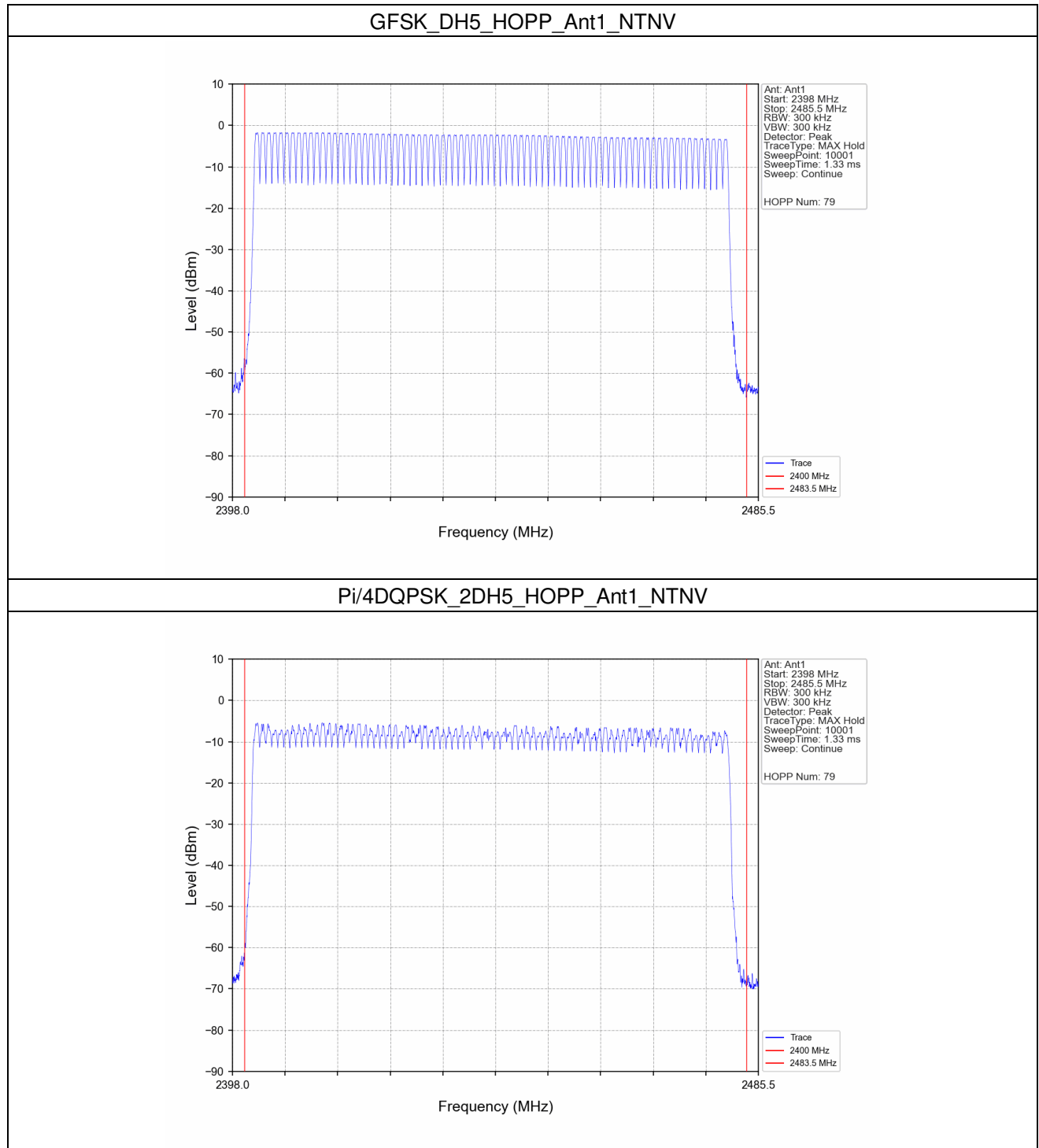
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4.2 Test Graph

4.2.1 HoppNum



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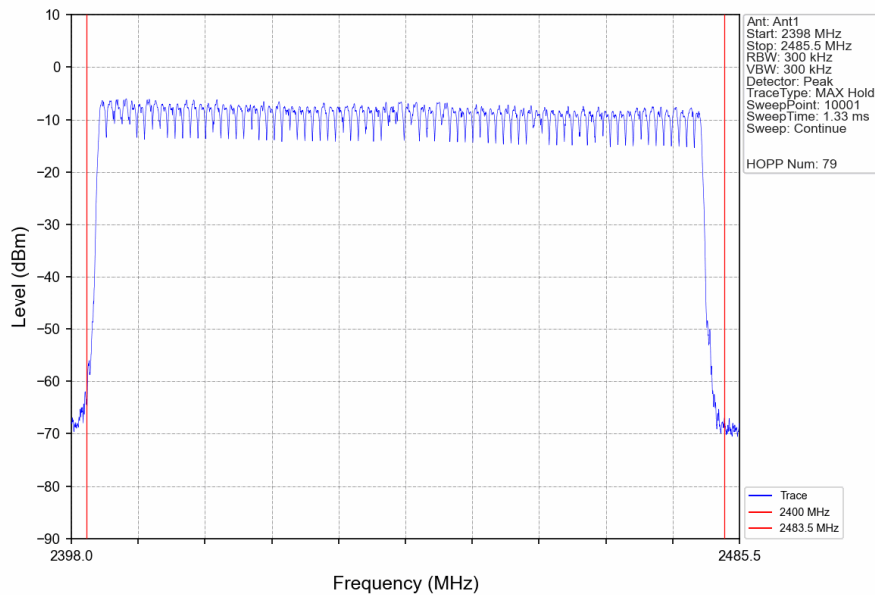
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8DPSK_3DH5_HOPP_Ant1_NTNV



5. Time of Occupancy (Dwell Time)

5.1 Test Result

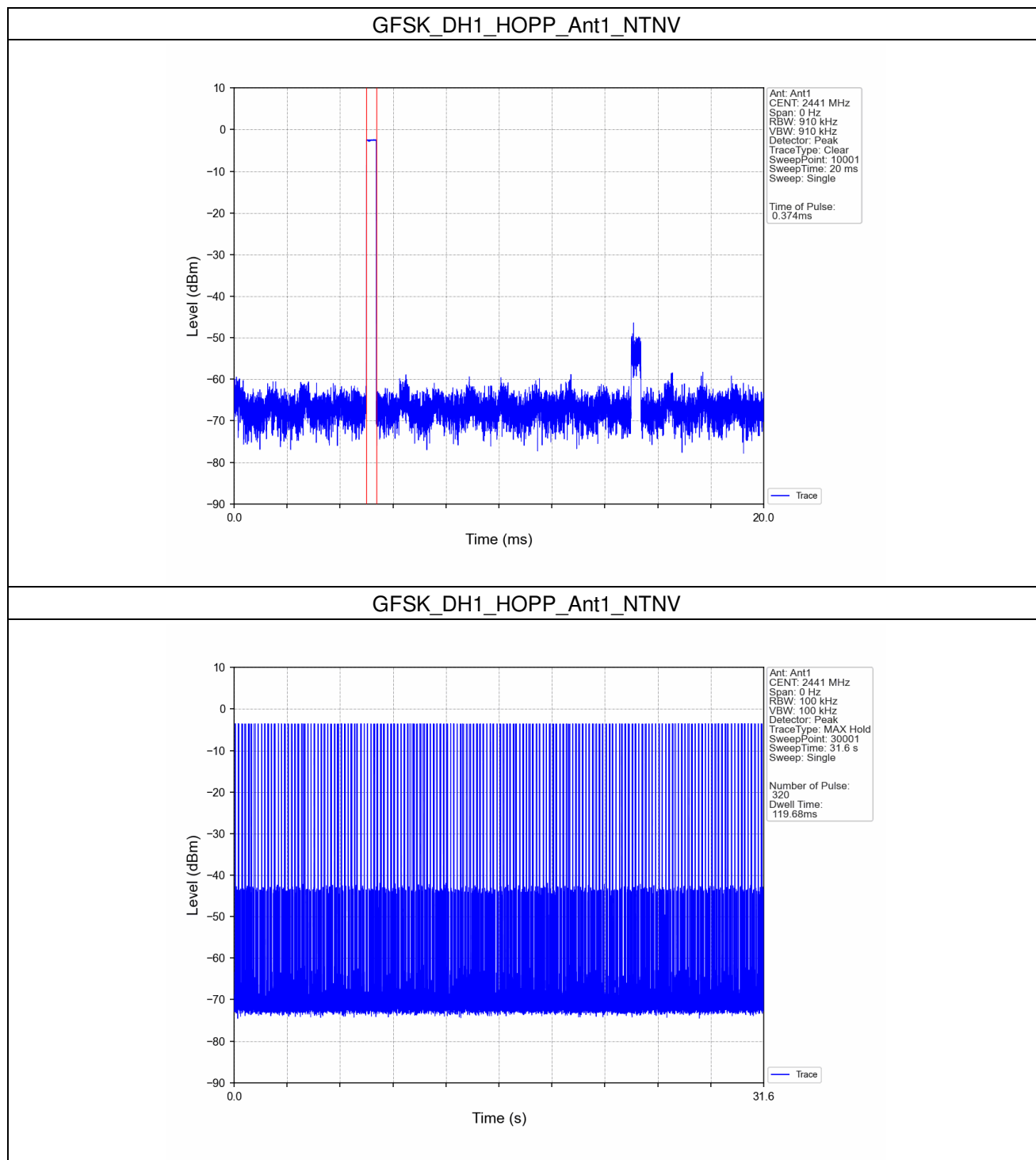
5.1.1 Ant1

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	320	119.680	<=400	Pass
			DH3	1.628	31.600	154	250.712	<=400	Pass
			DH5	2.878	31.600	97	279.166	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	1.634	31.600	154	251.636	<=400	Pass
			2DH5	2.884	31.600	110	317.240	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.382	31.600	320	122.240	<=400	Pass
			3DH3	1.634	31.600	152	248.368	<=400	Pass
			3DH5	2.884	31.600	105	302.820	<=400	Pass



5.2 Test Graph

5.2.1 Ant1



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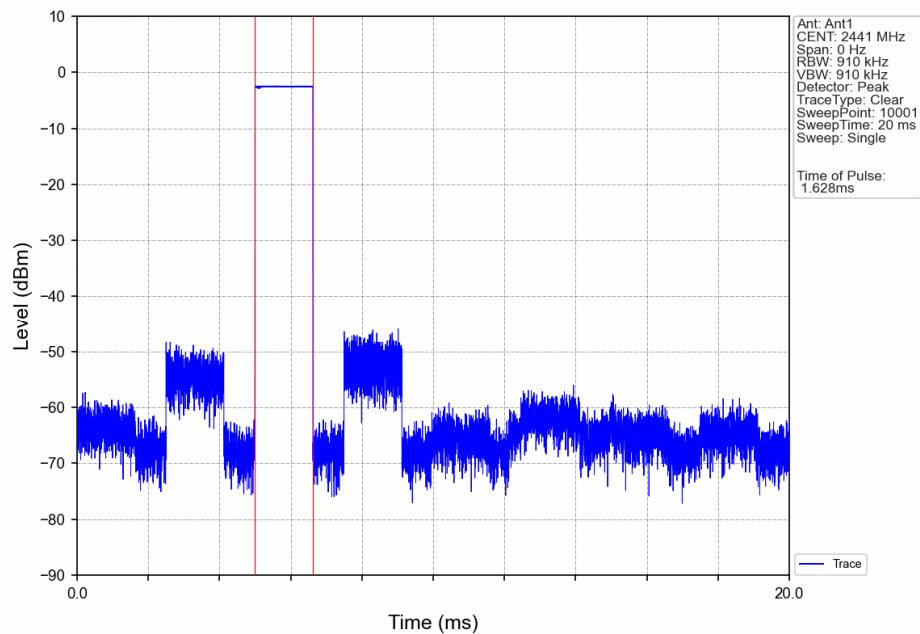
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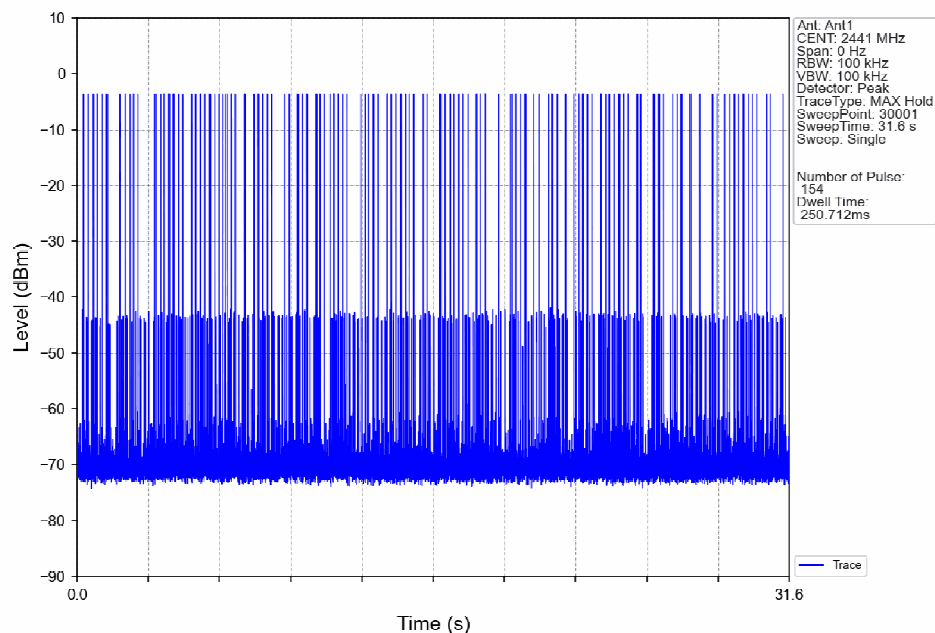
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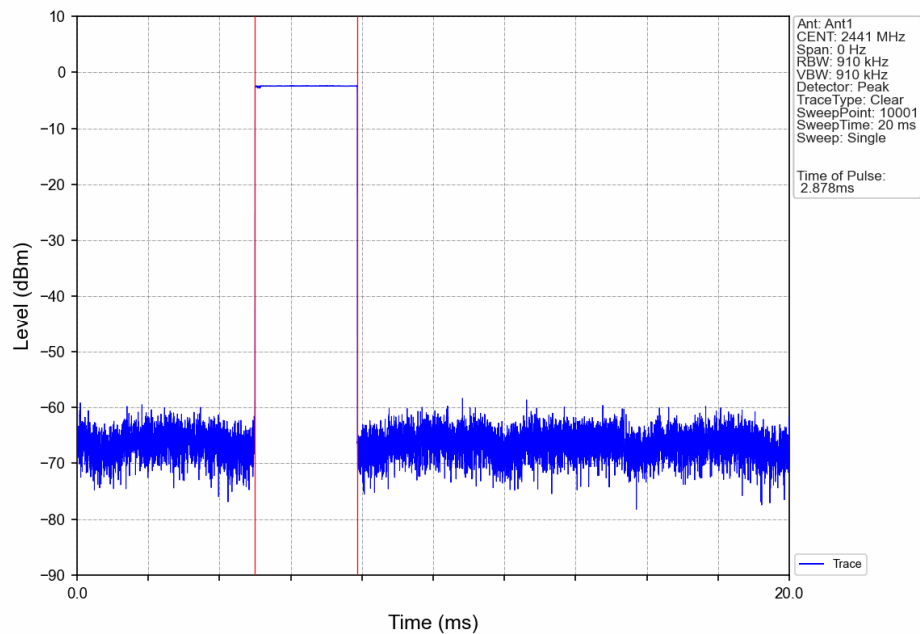
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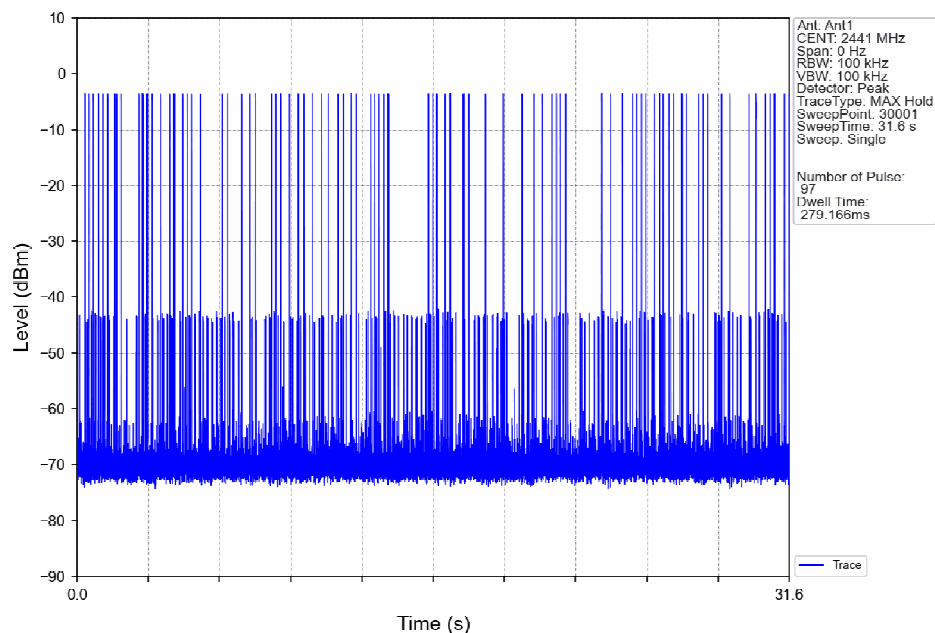
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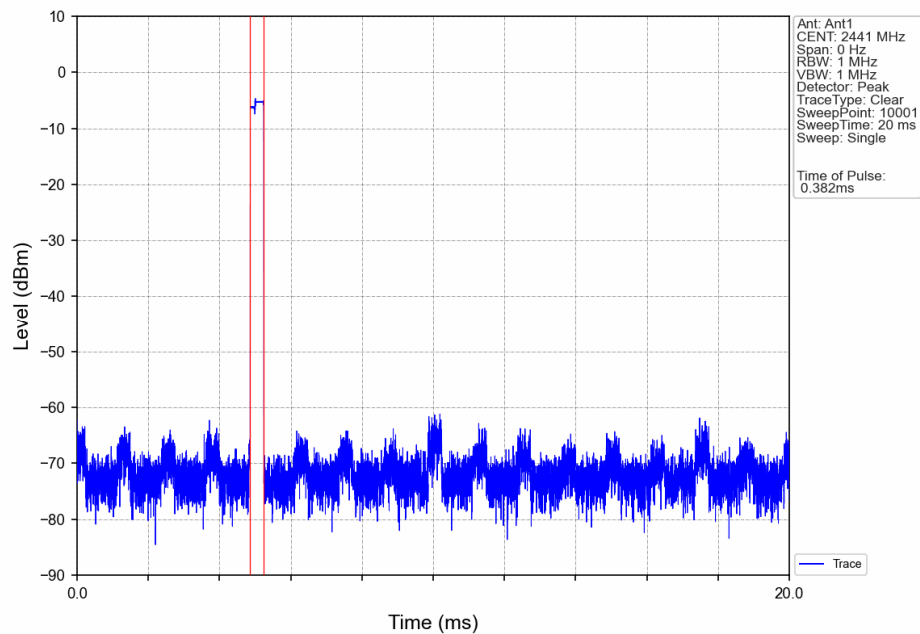
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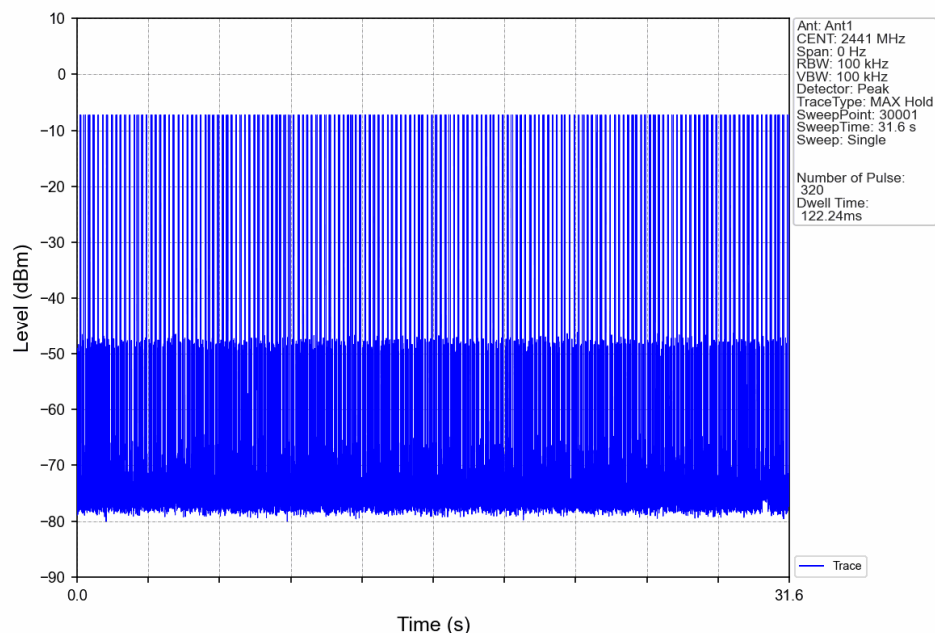
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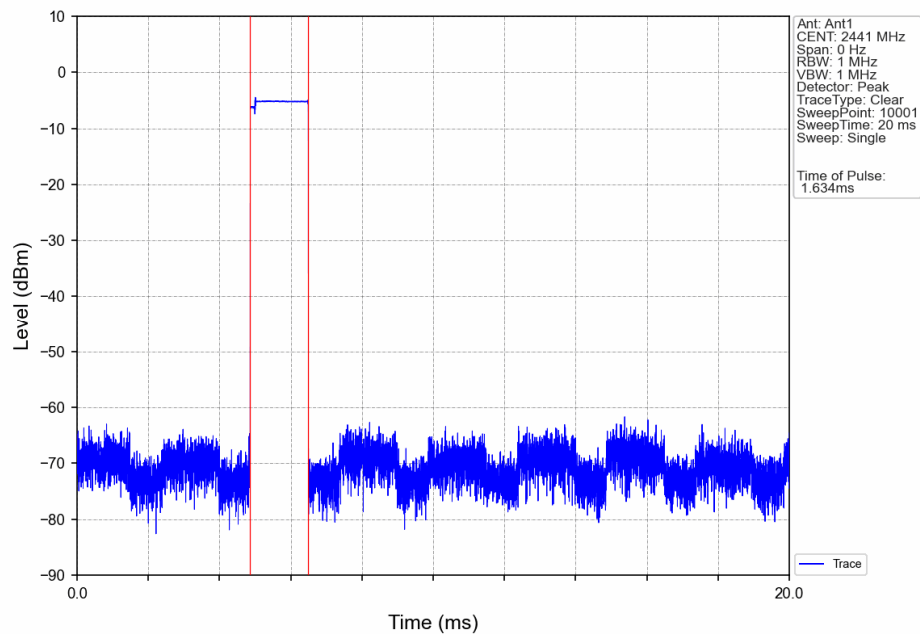
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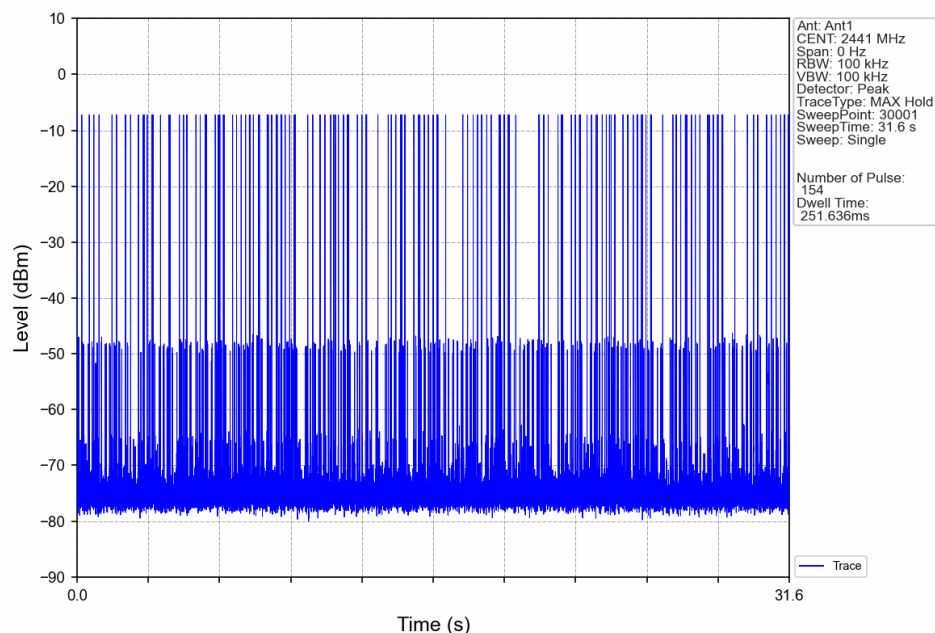
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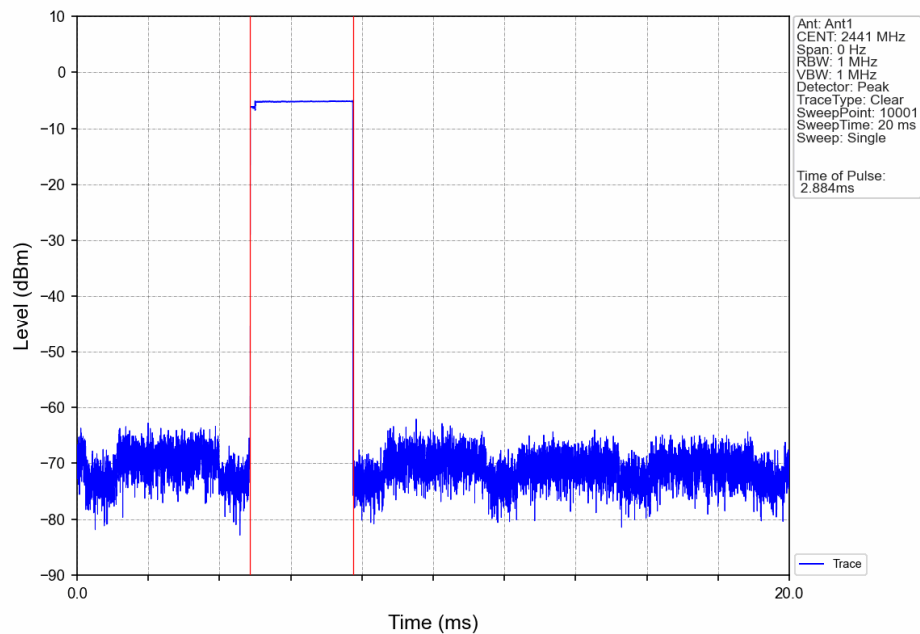
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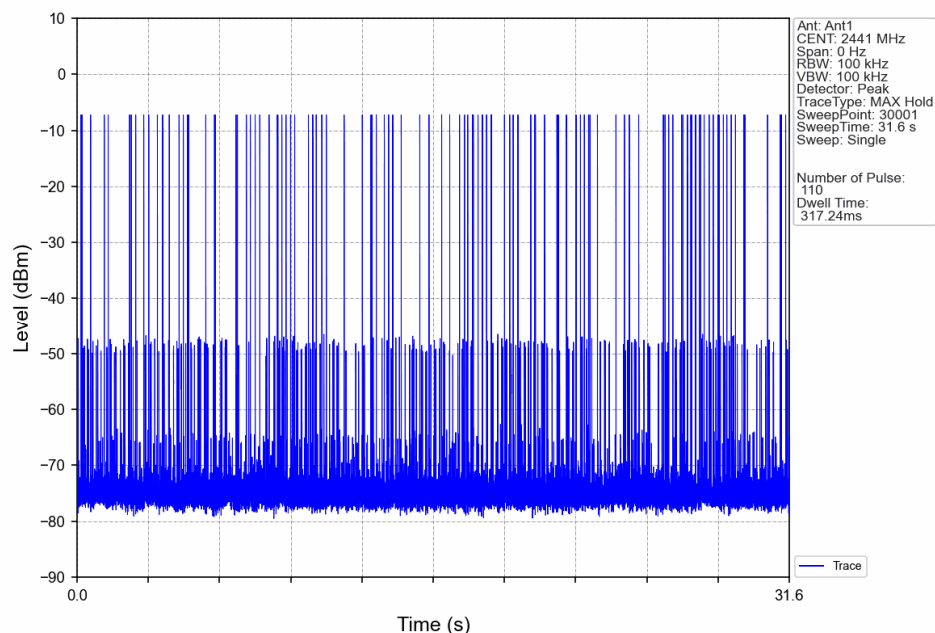
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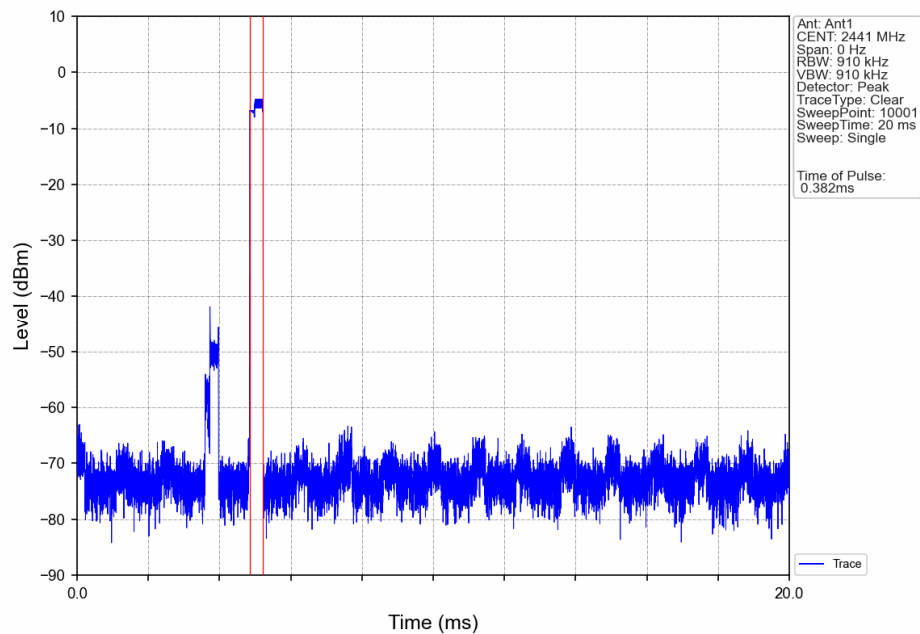
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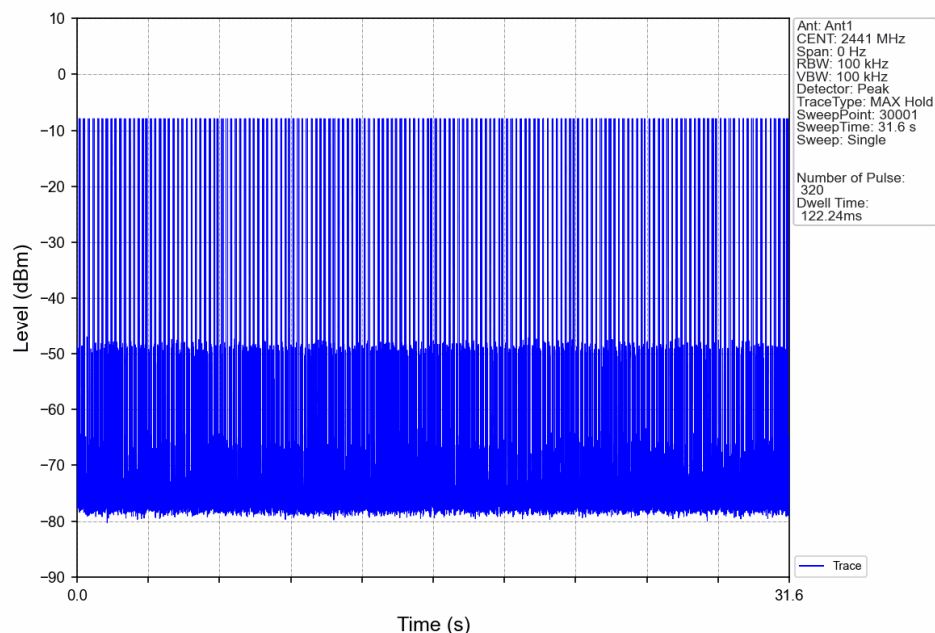
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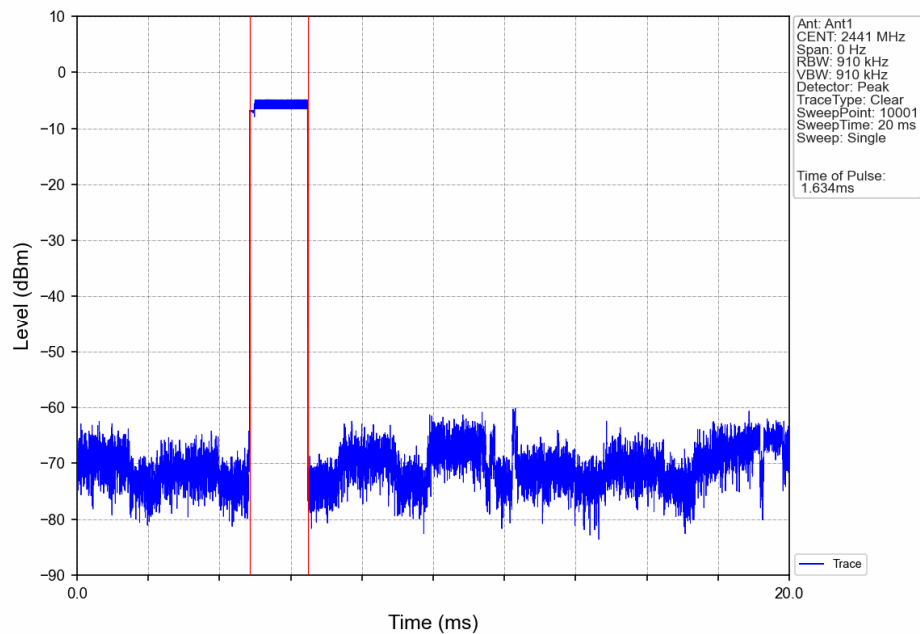
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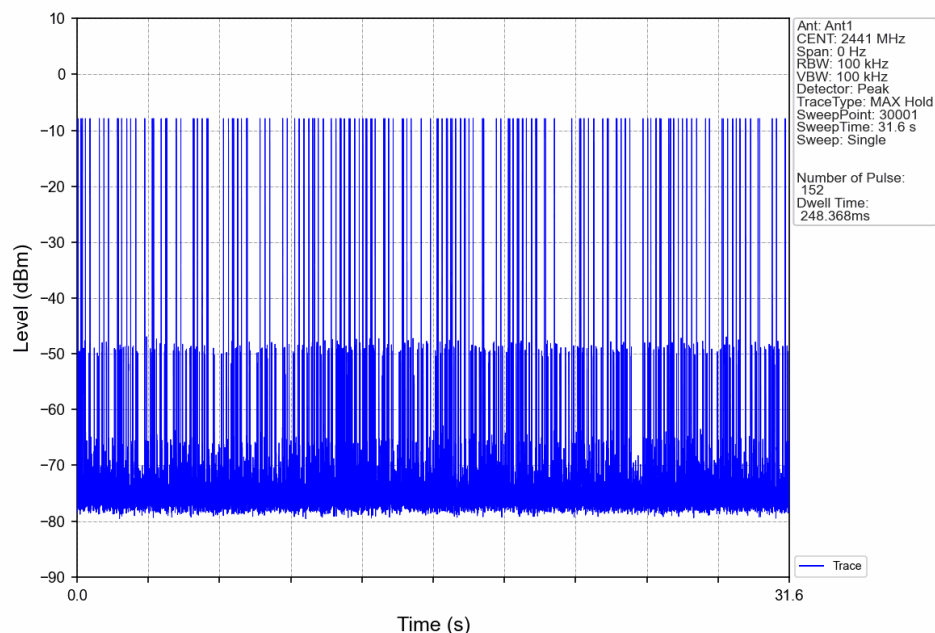
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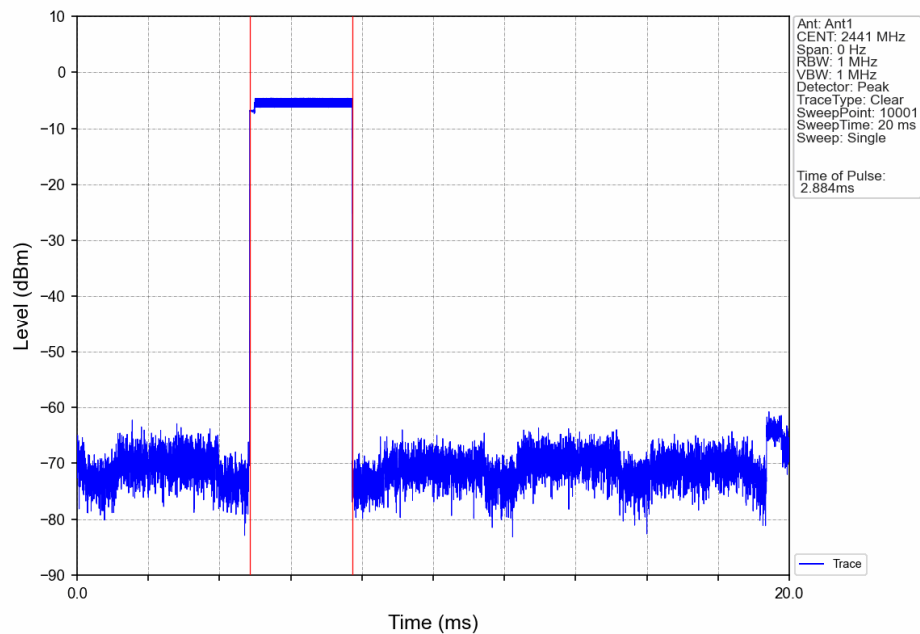
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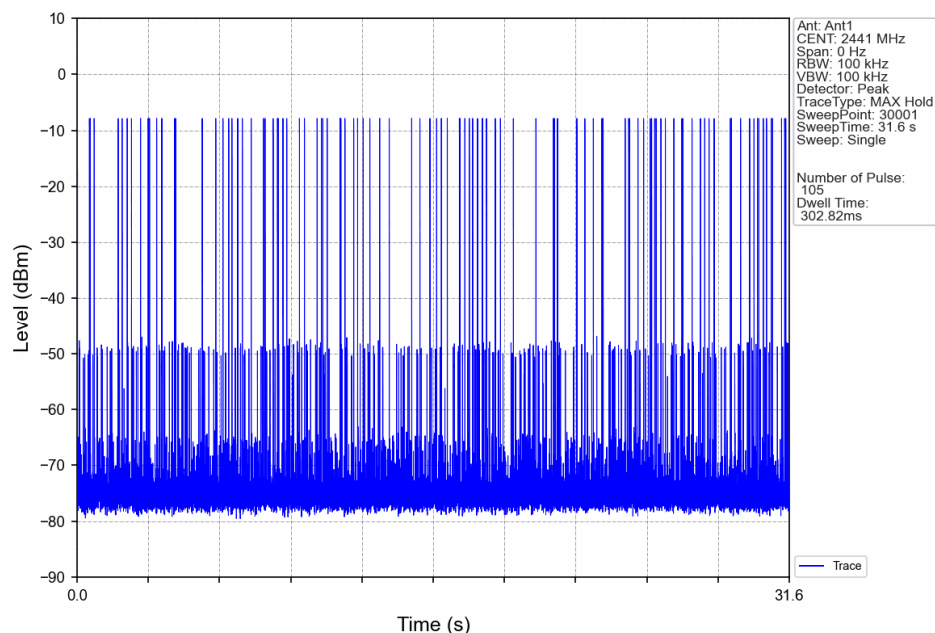
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-2.71
		2441	DH5	1	-2.31
		2480	DH5	1	-3.51
Pi/4DQPSK	SISO	2402	2DH5	1	-5.55
		2441	2DH5	1	-6.07
		2480	2DH5	1	-7.16
8DPSK	SISO	2402	3DH5	1	-5.69
		2441	3DH5	1	-6.08
		2480	3DH5	1	-7.99

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.



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6.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-2.31	-22.31	Pass
		2441	DH5	1	-2.31	-22.31	Pass
		2480	DH5	1	-2.31	-22.31	Pass
		HOPP	DH5	1	-2.31	-22.31	Pass
					-2.31	-22.31	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-5.55	-25.55	Pass
		2441	2DH5	1	-5.55	-25.55	Pass
		2480	2DH5	1	-5.55	-25.55	Pass
		HOPP	2DH5	1	-5.55	-25.55	Pass
					-5.55	-25.55	Pass
8DPSK	SISO	2402	3DH5	1	-5.69	-25.69	Pass
		2441	3DH5	1	-5.69	-25.69	Pass
		2480	3DH5	1	-5.69	-25.69	Pass
		HOPP	3DH5	1	-5.69	-25.69	Pass
					-5.69	-25.69	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.



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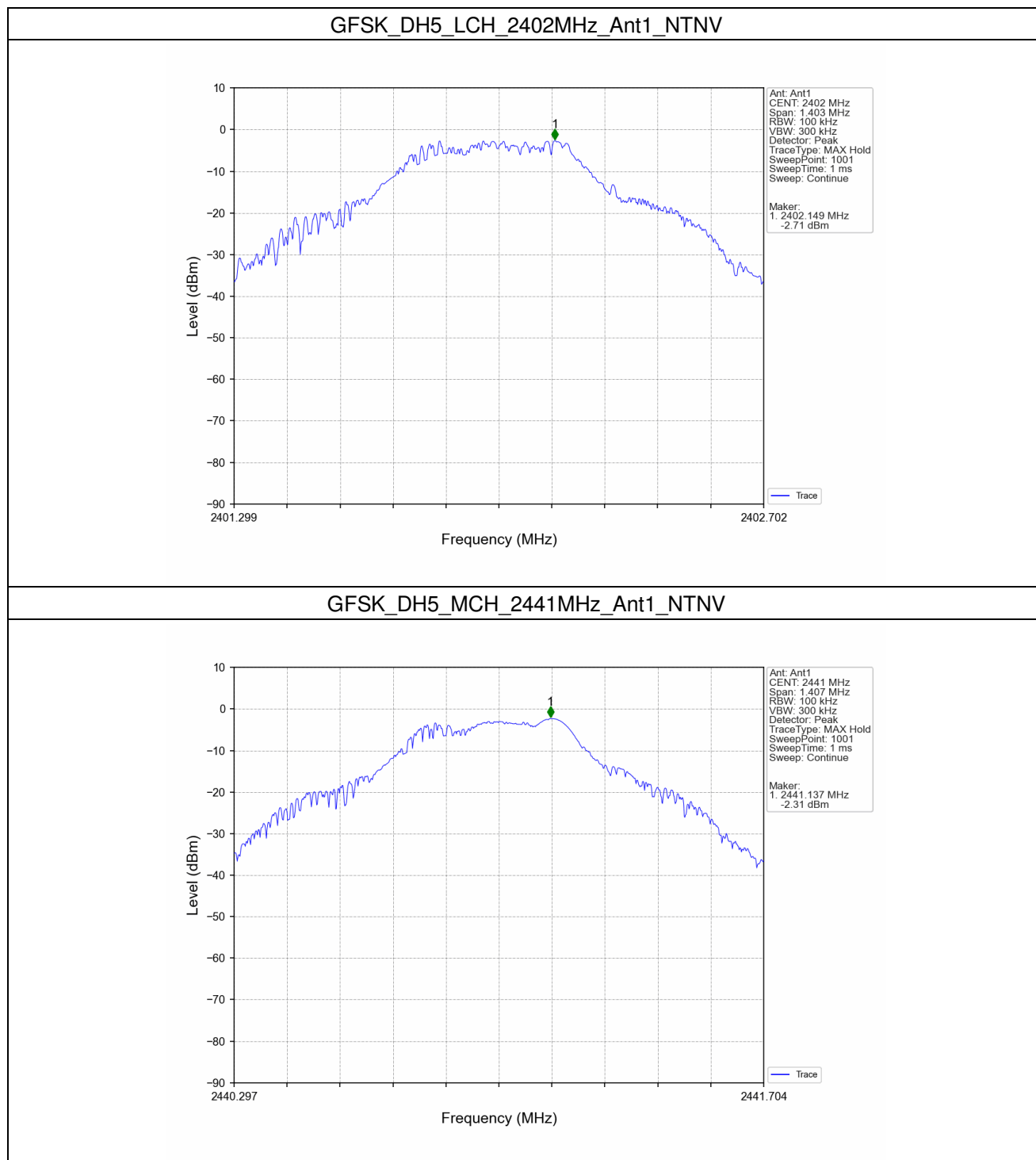
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6.2 Test Graph

6.2.1 Ref



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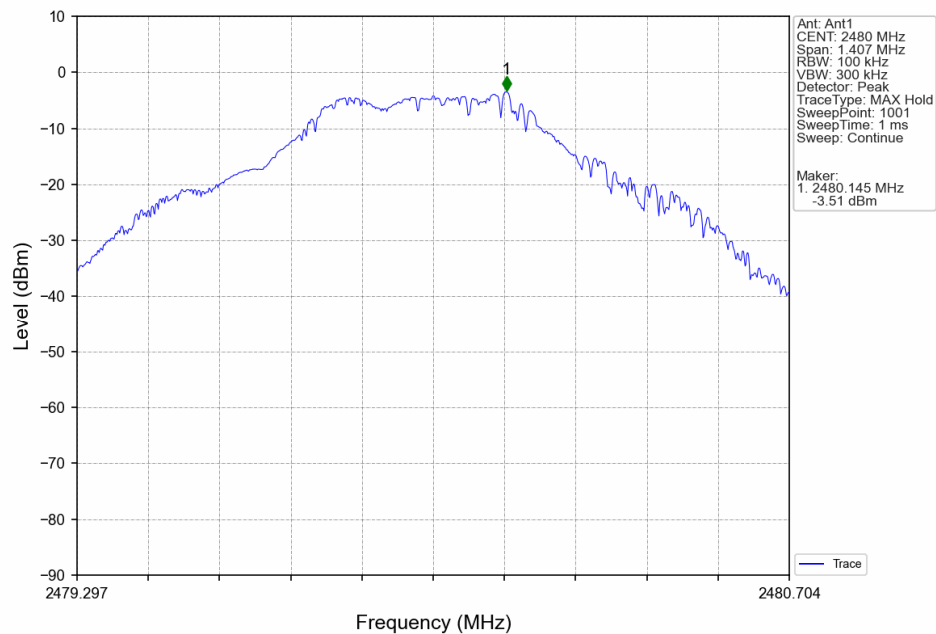
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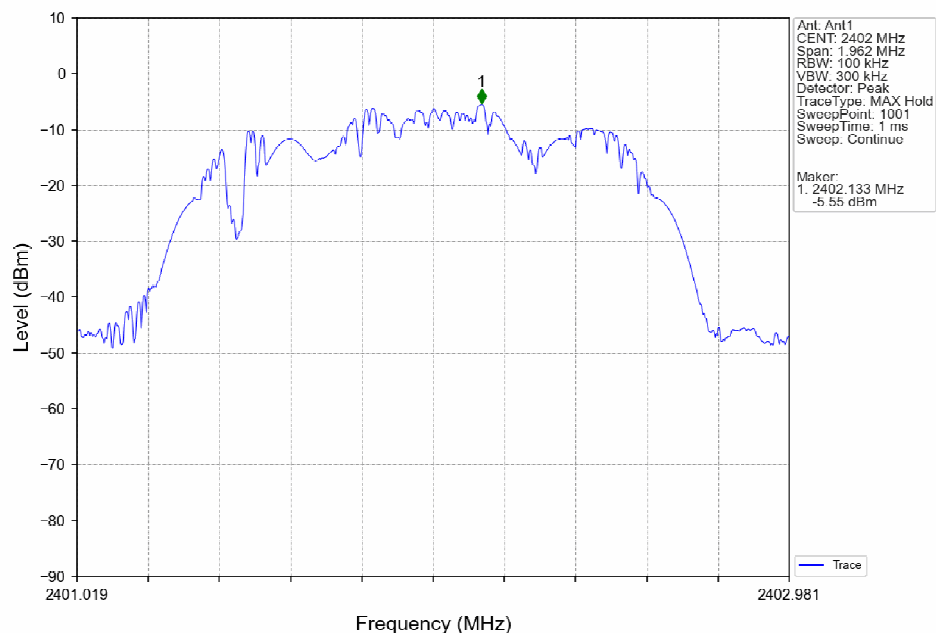
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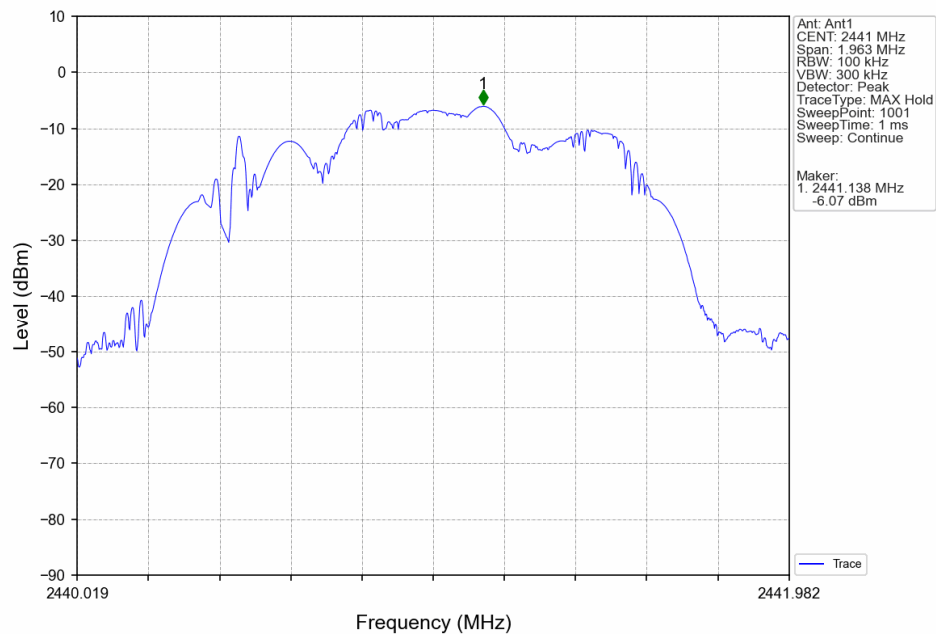
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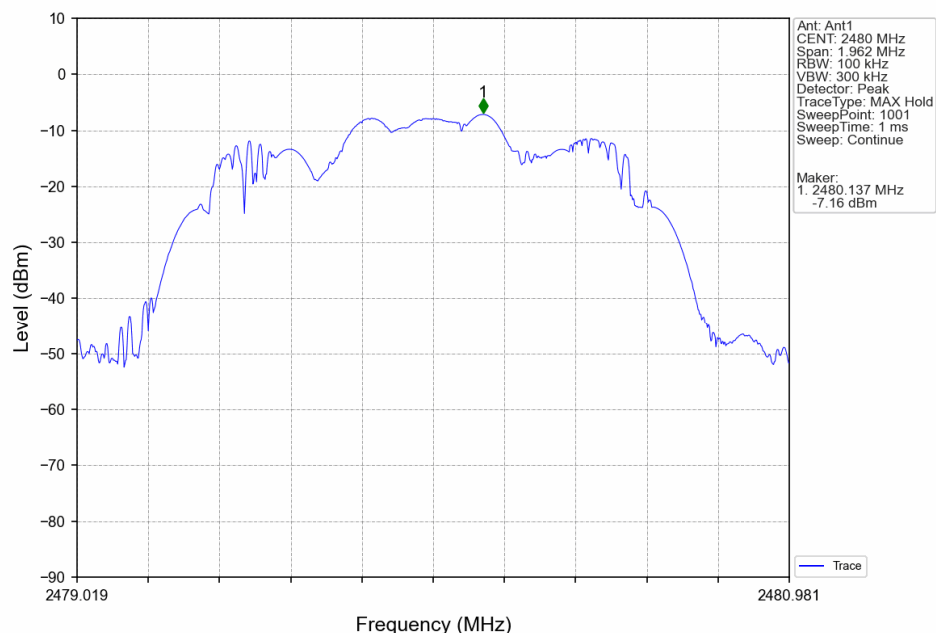
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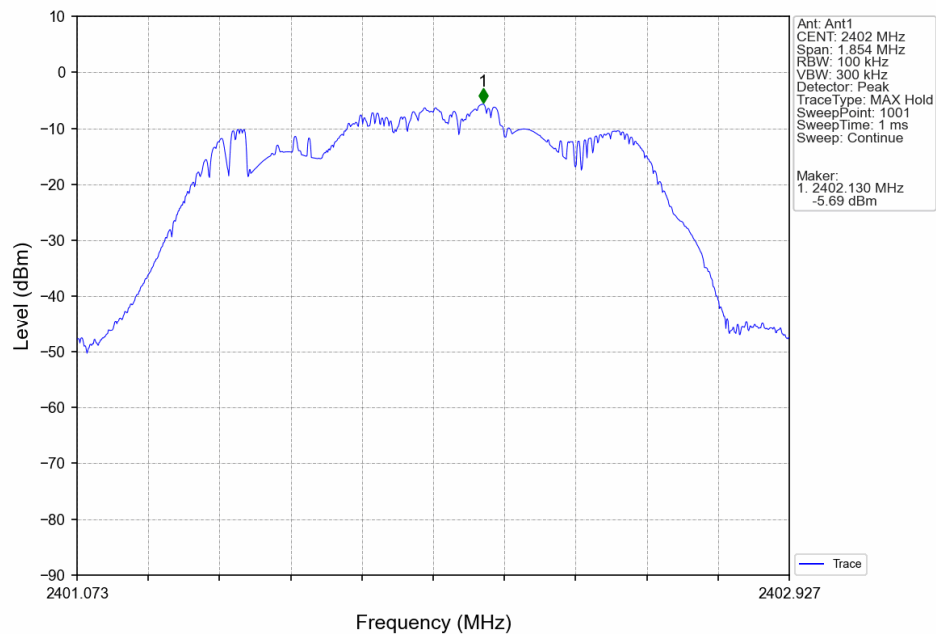
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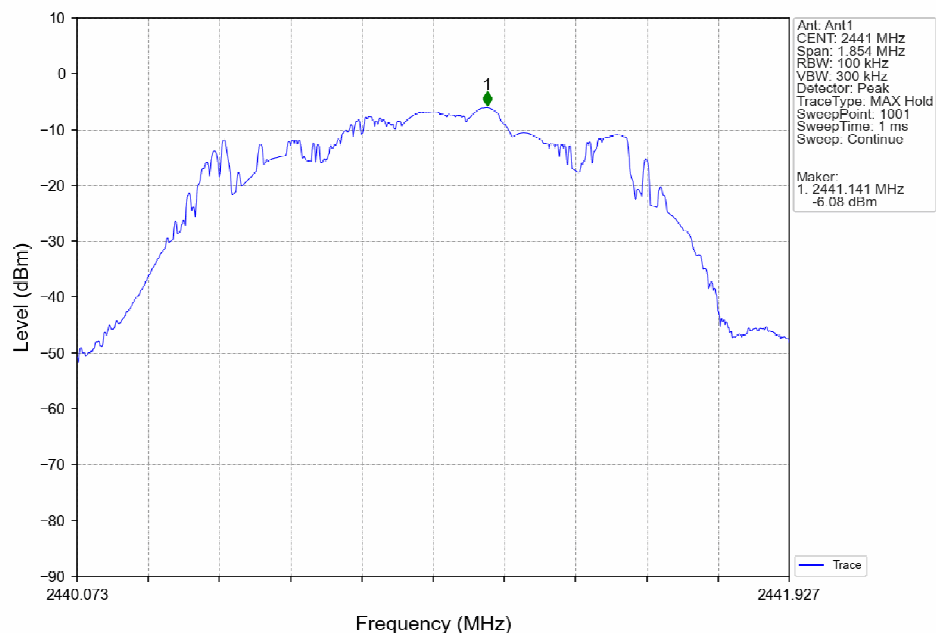
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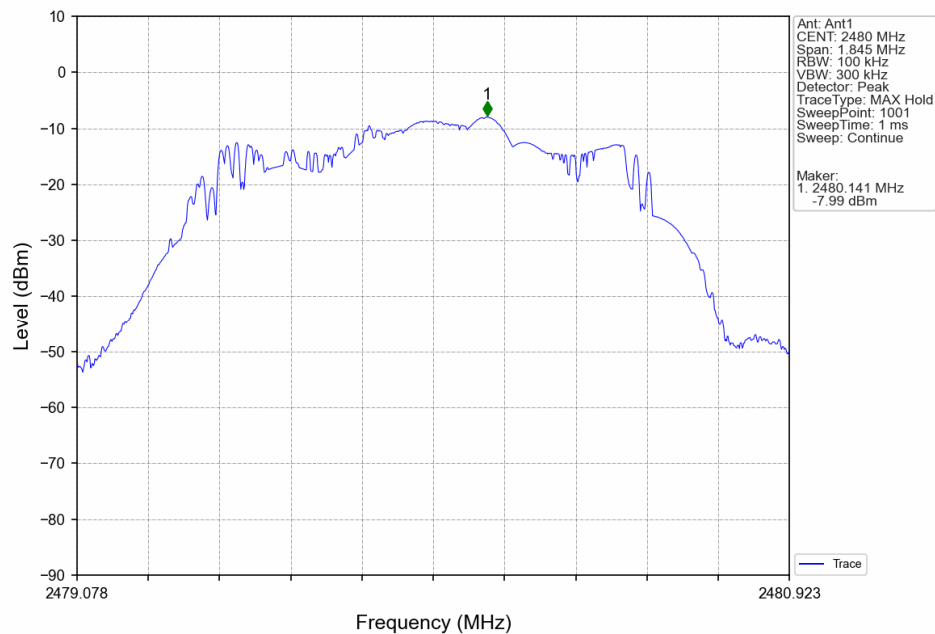
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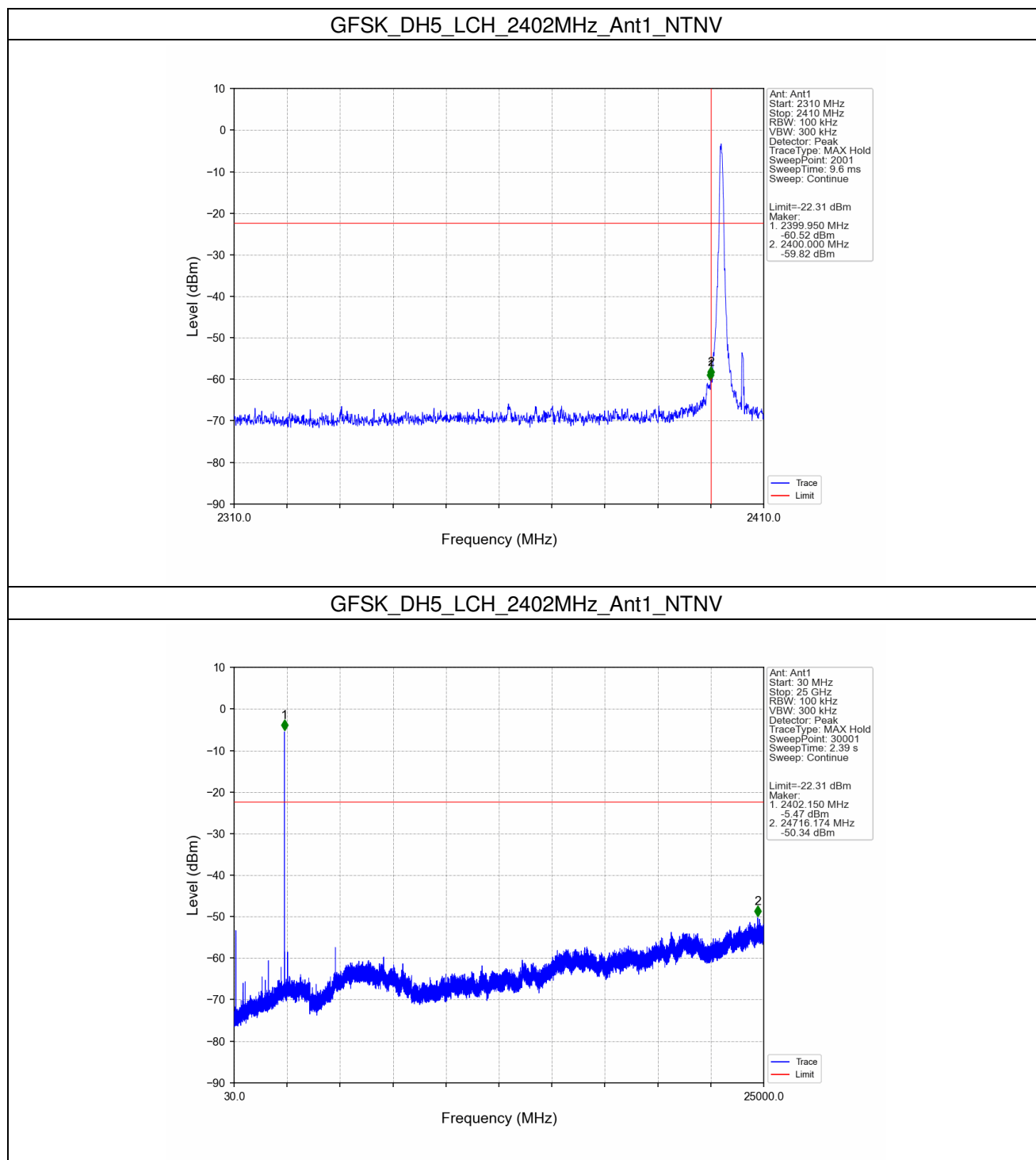
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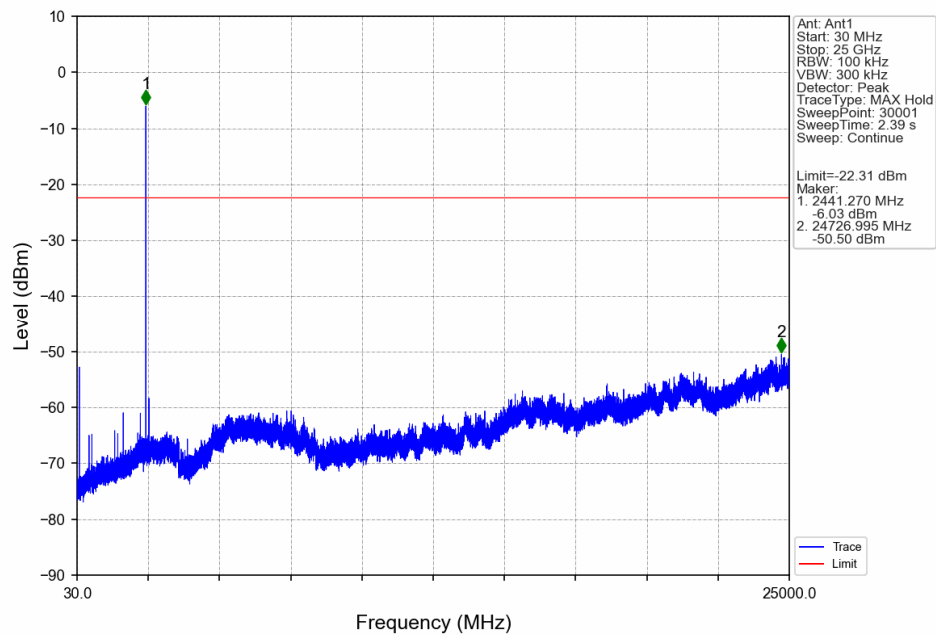
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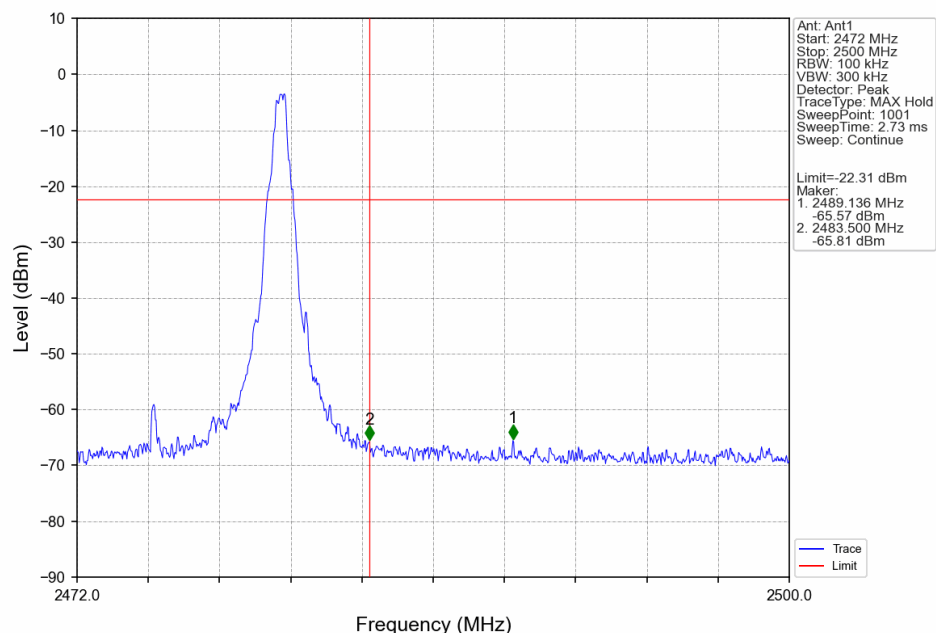
6.2.2 CSE and Band Edges



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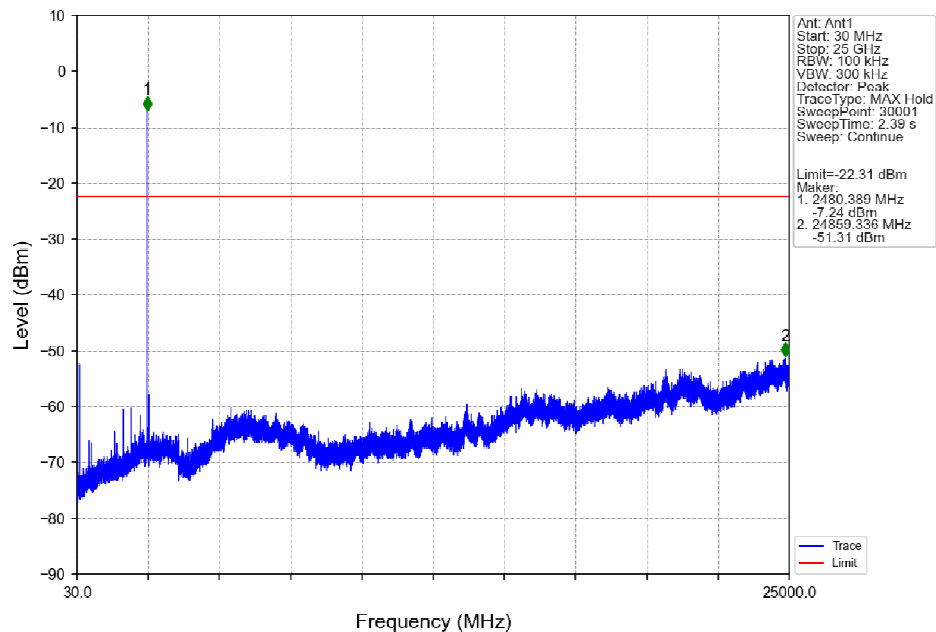
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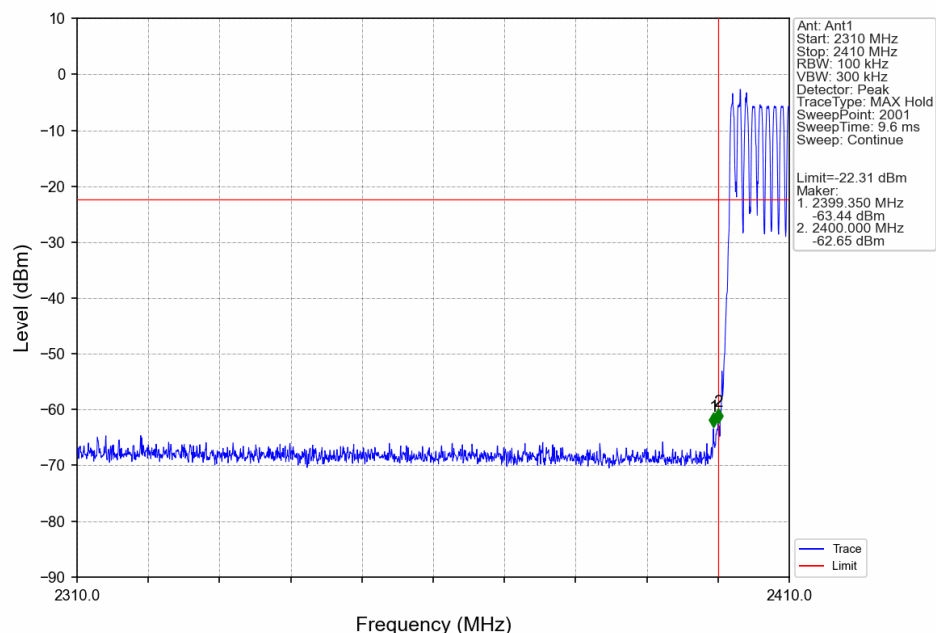
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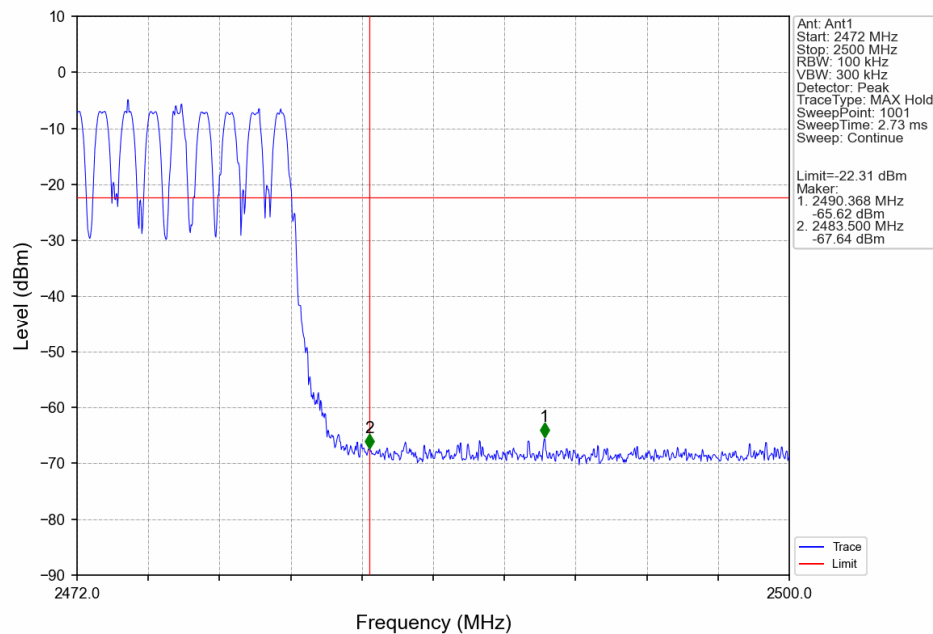
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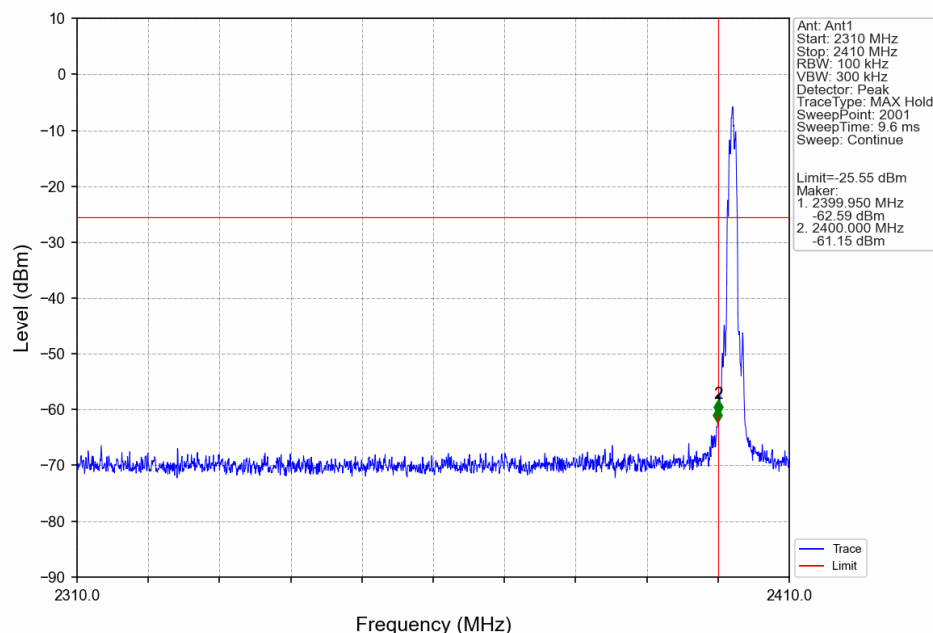
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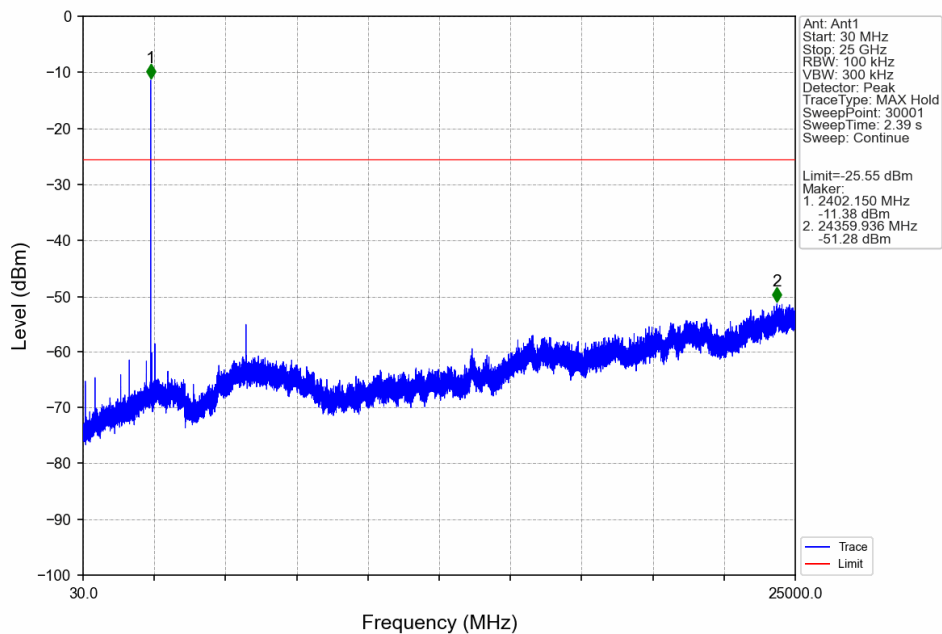
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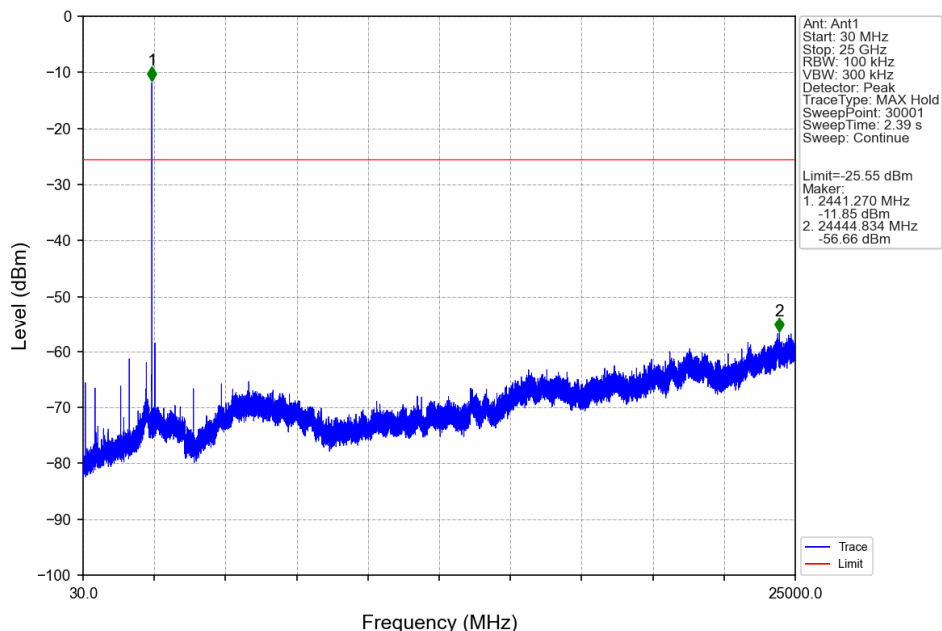
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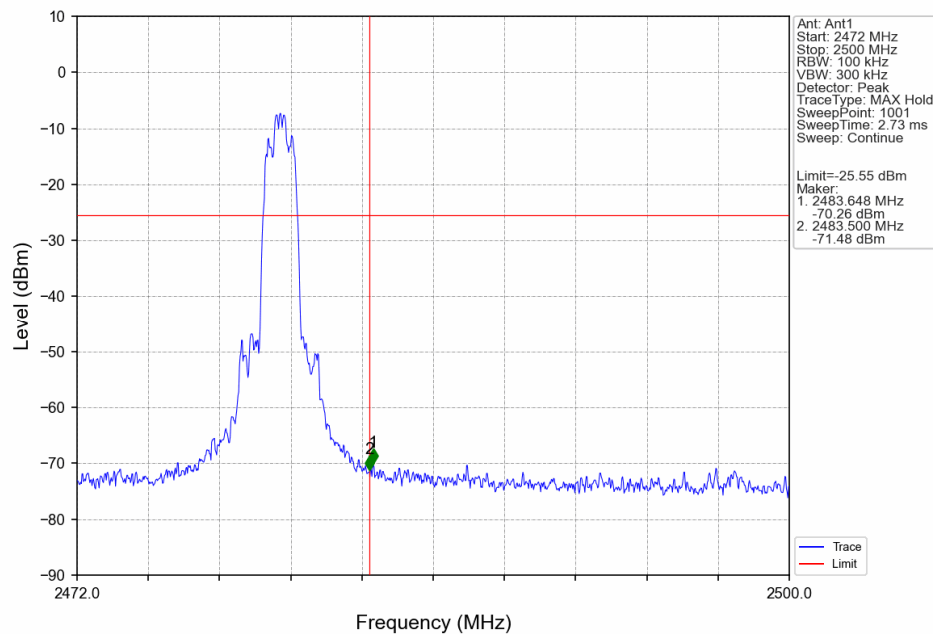
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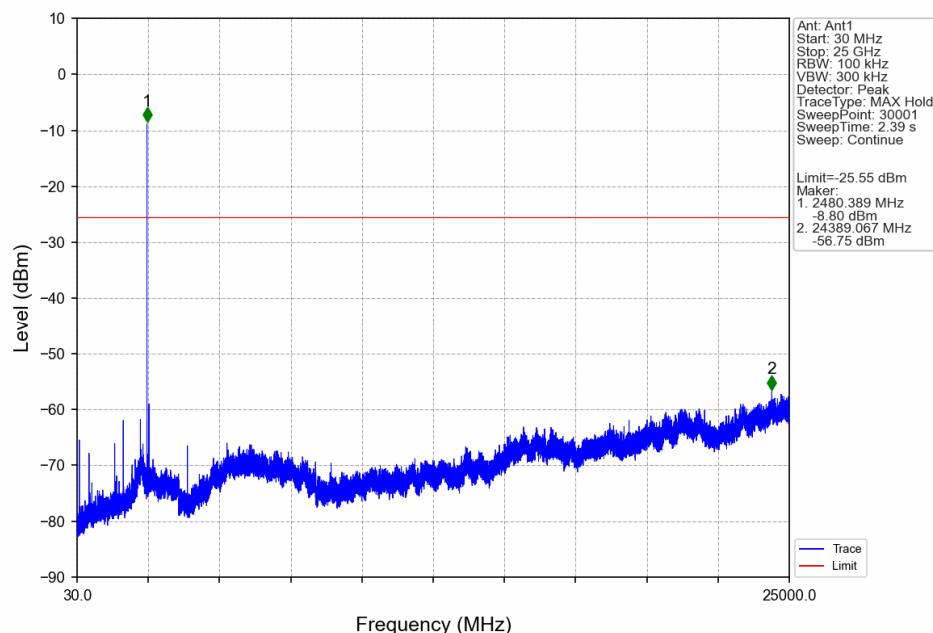
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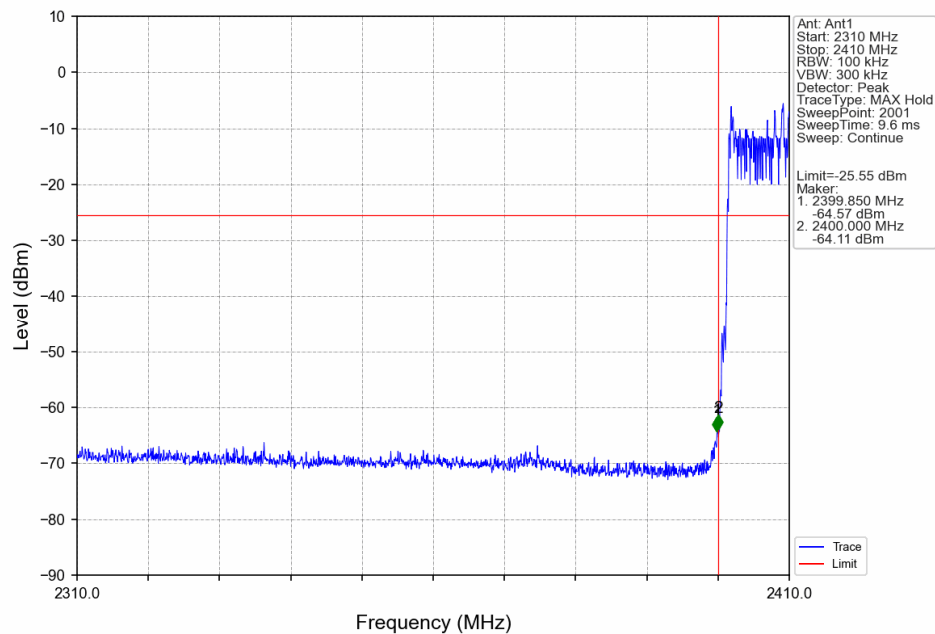
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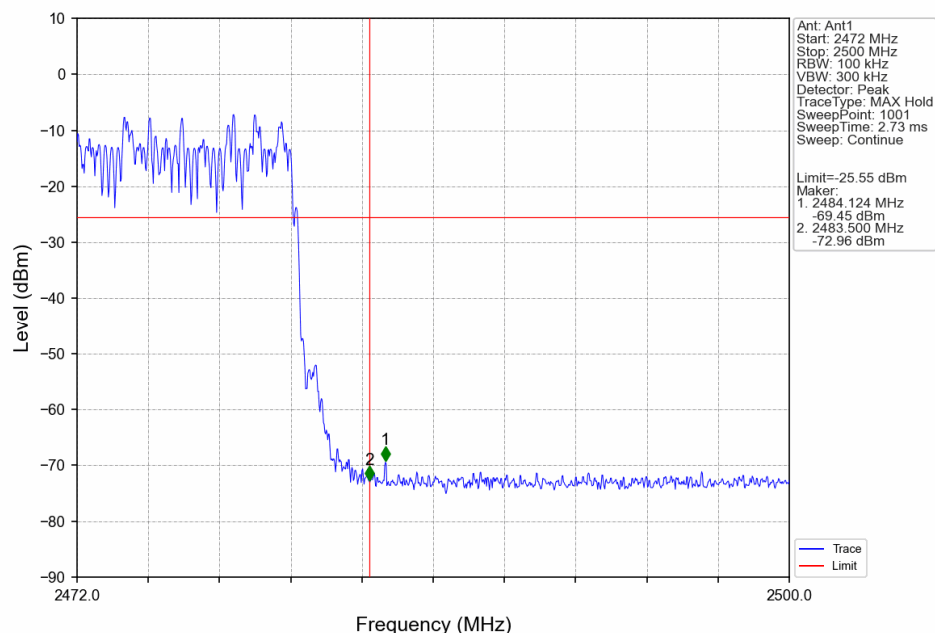
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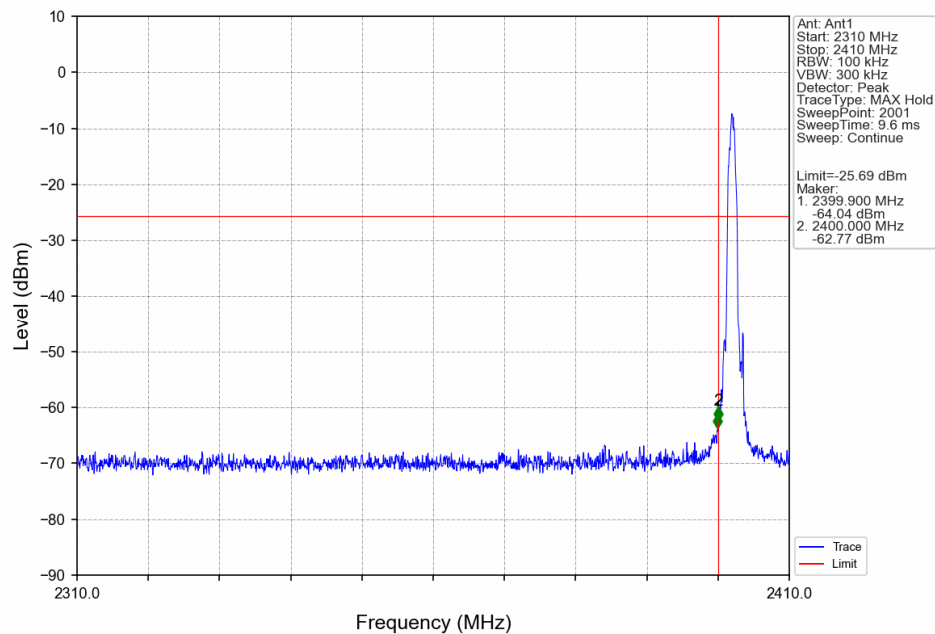
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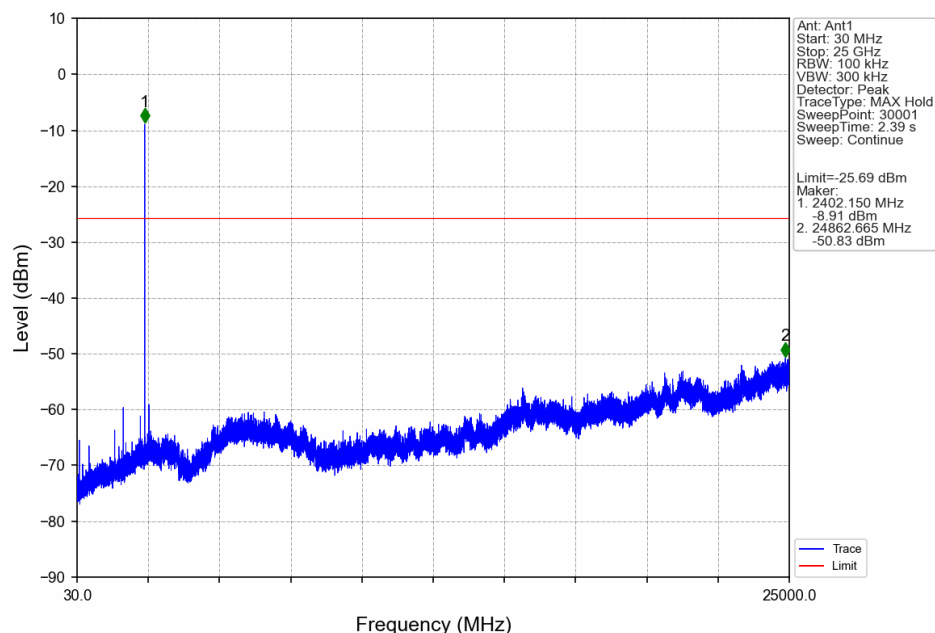
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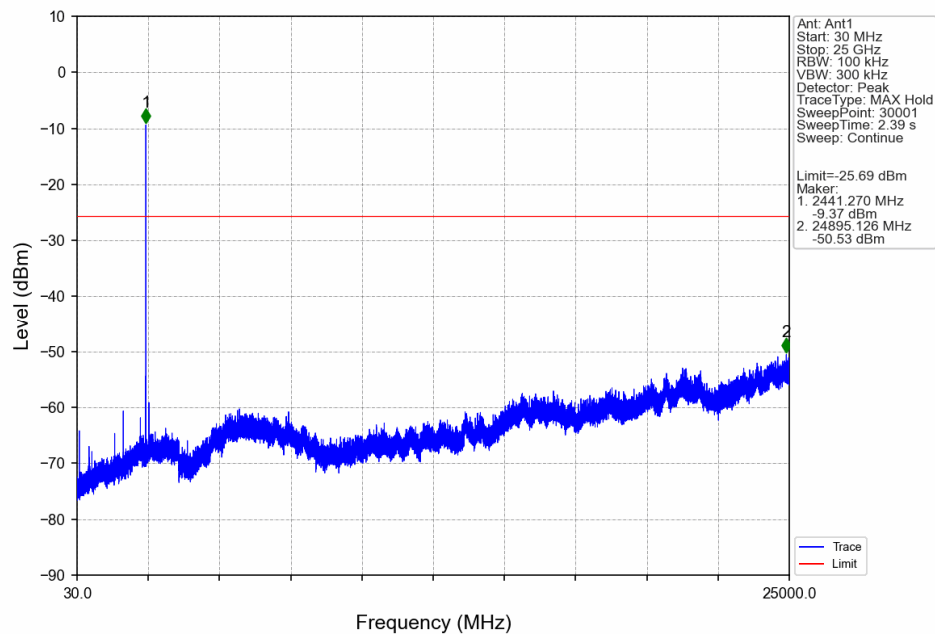
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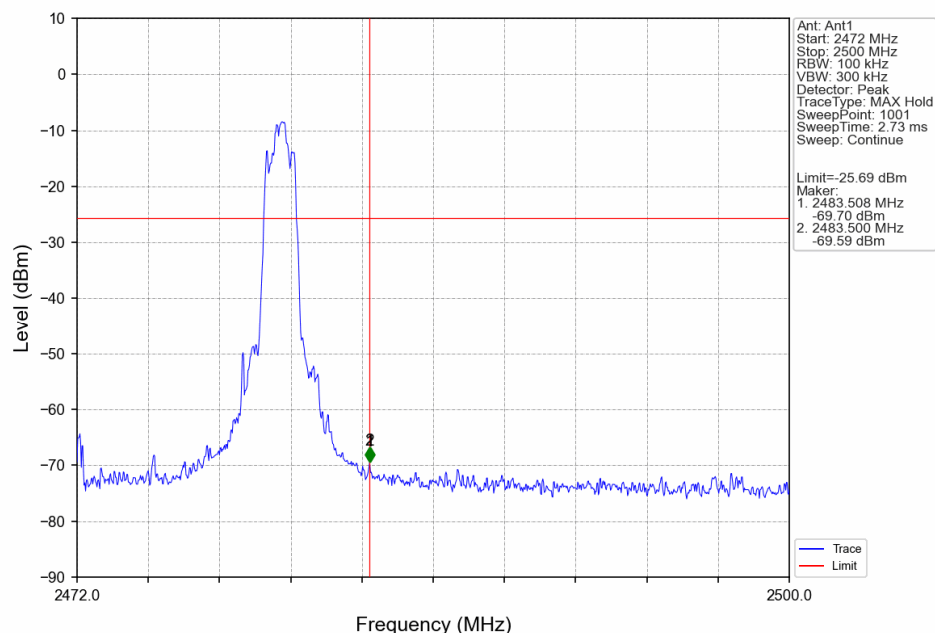
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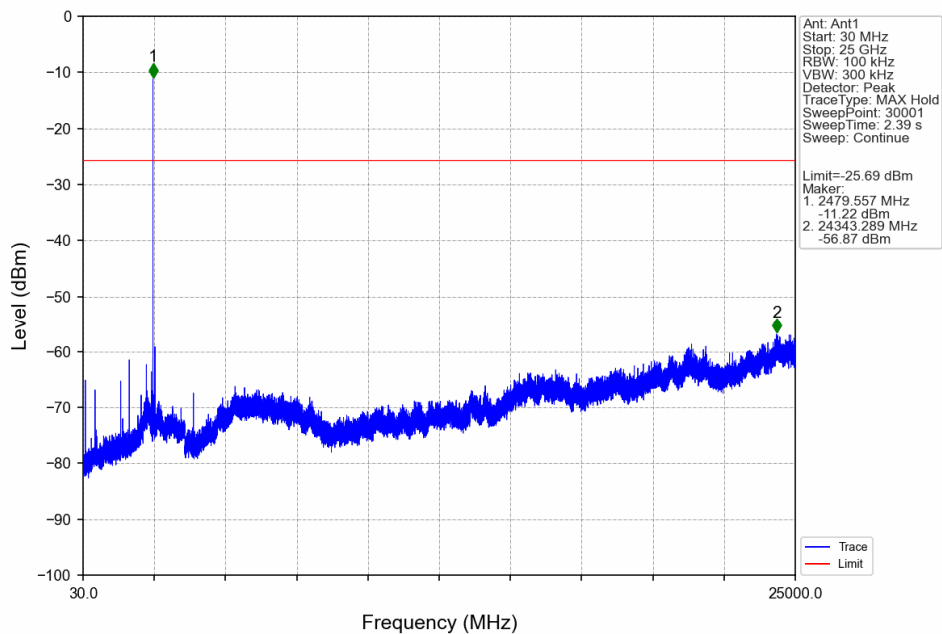
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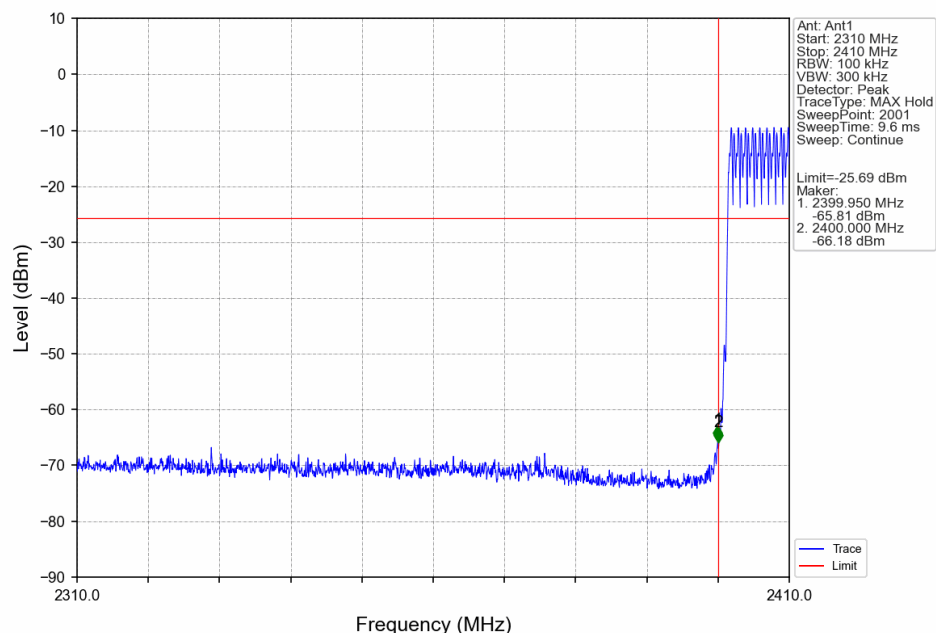
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

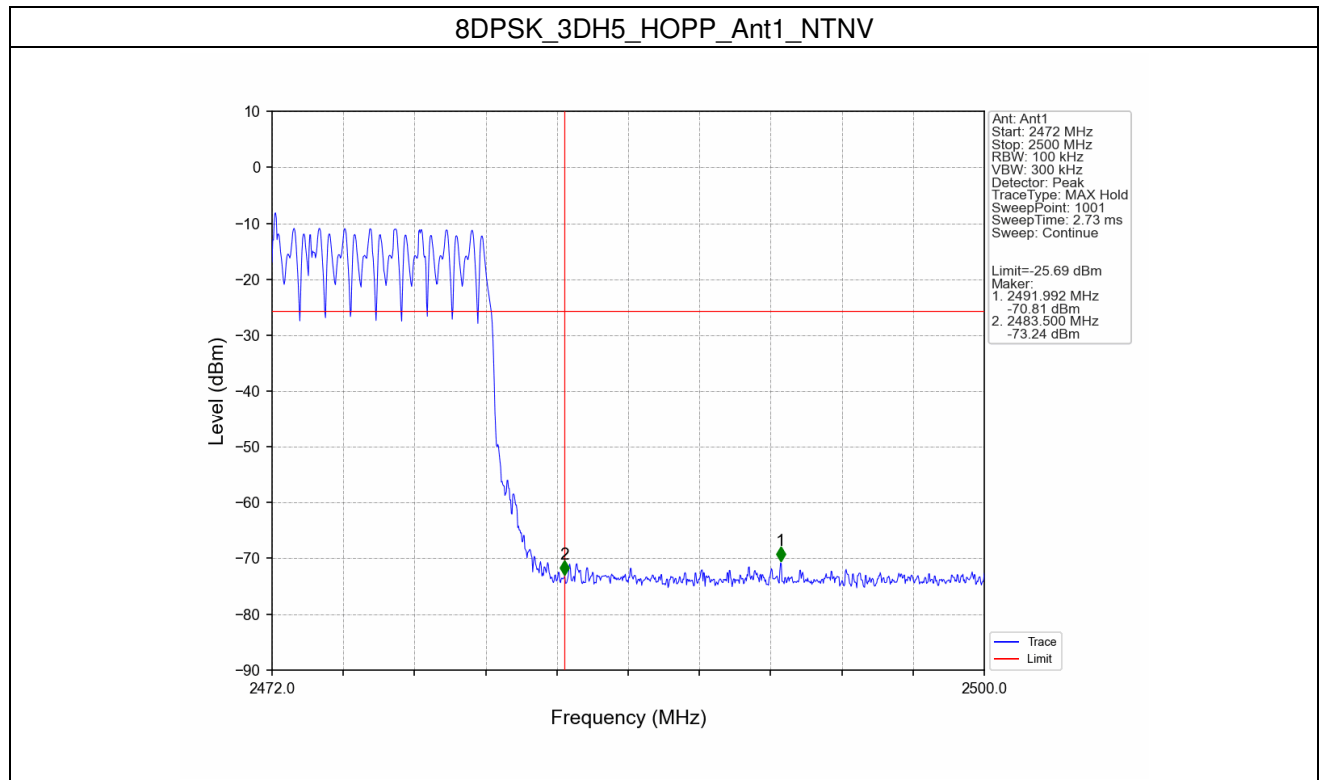


8DPSK_3DH5_HOPP_Ant1_NTNV



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