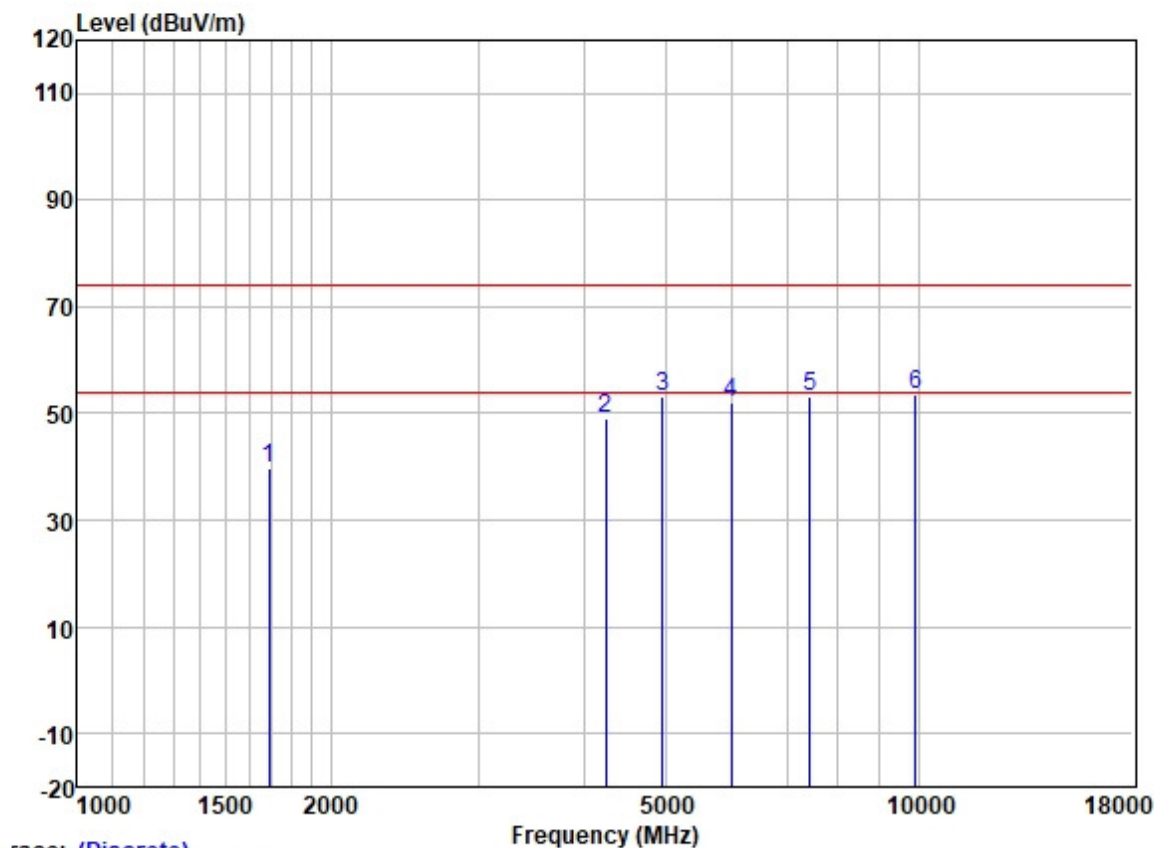


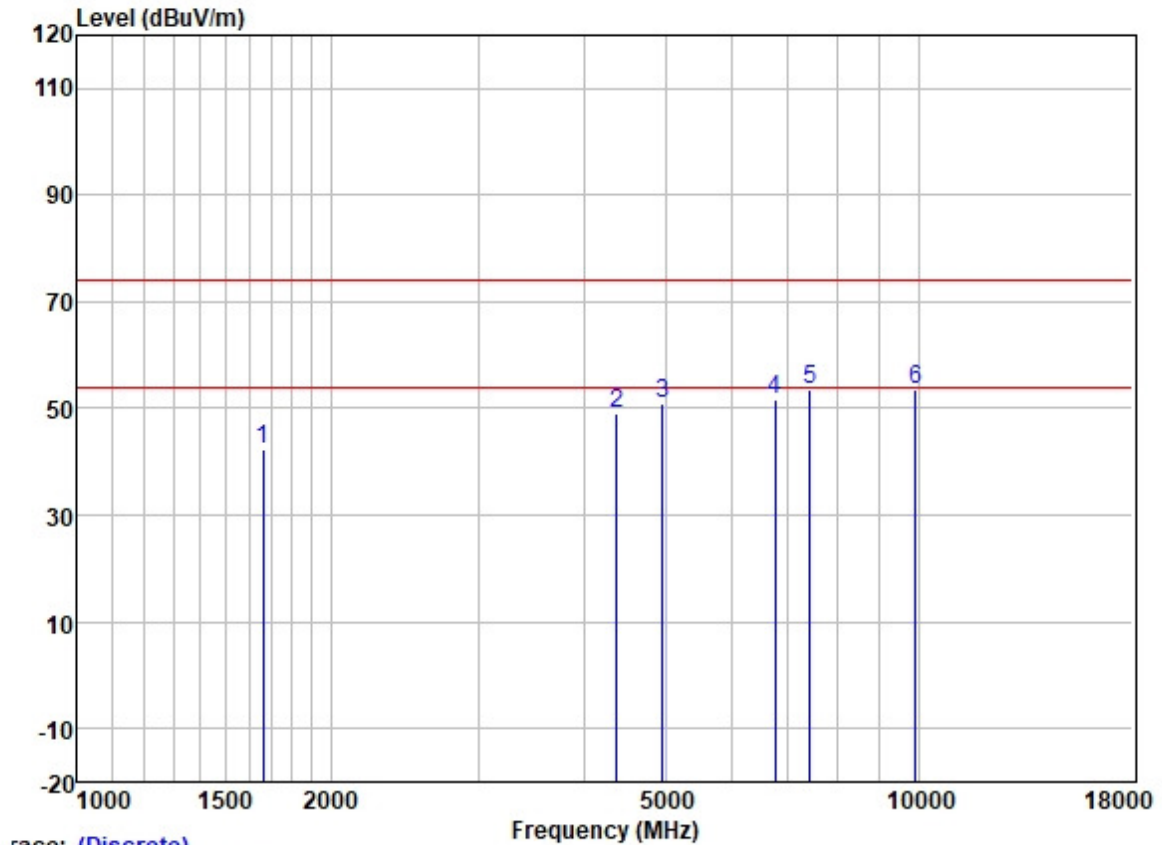
Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



race: (Discrete)

		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1692.231	49.07	25.70	2.80	37.89	39.68	74.00	-34.32	HORIZONTAL	Peak
2	4242.641	50.90	30.30	4.62	36.81	49.01	74.00	-24.99	HORIZONTAL	Peak
3	4960.000	52.69	31.65	5.65	36.84	53.15	74.00	-20.85	HORIZONTAL	Peak
4	5984.305	50.37	32.39	6.15	36.90	52.01	74.00	-21.99	HORIZONTAL	Peak
5	7440.000	48.00	36.27	6.22	37.47	53.02	74.00	-20.98	HORIZONTAL	Peak
6	9920.000	45.23	38.65	6.96	37.40	53.44	74.00	-20.56	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; ; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1663.137	51.76	25.65	2.80	37.91	42.30	74.00	-31.70	VERTICAL
2	4379.699	50.61	30.64	4.69	36.81	49.13	74.00	-24.87	VERTICAL
3	4960.000	50.44	31.65	5.65	36.84	50.90	74.00	-23.10	VERTICAL
4	6756.708	48.31	34.56	5.82	37.10	51.59	74.00	-22.41	VERTICAL
5	7440.000	48.58	36.27	6.22	37.47	53.60	74.00	-20.40	VERTICAL
6	9920.000	45.28	38.65	6.96	37.40	53.49	74.00	-20.51	VERTICAL

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2110021205AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021205AT



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10 Appendix

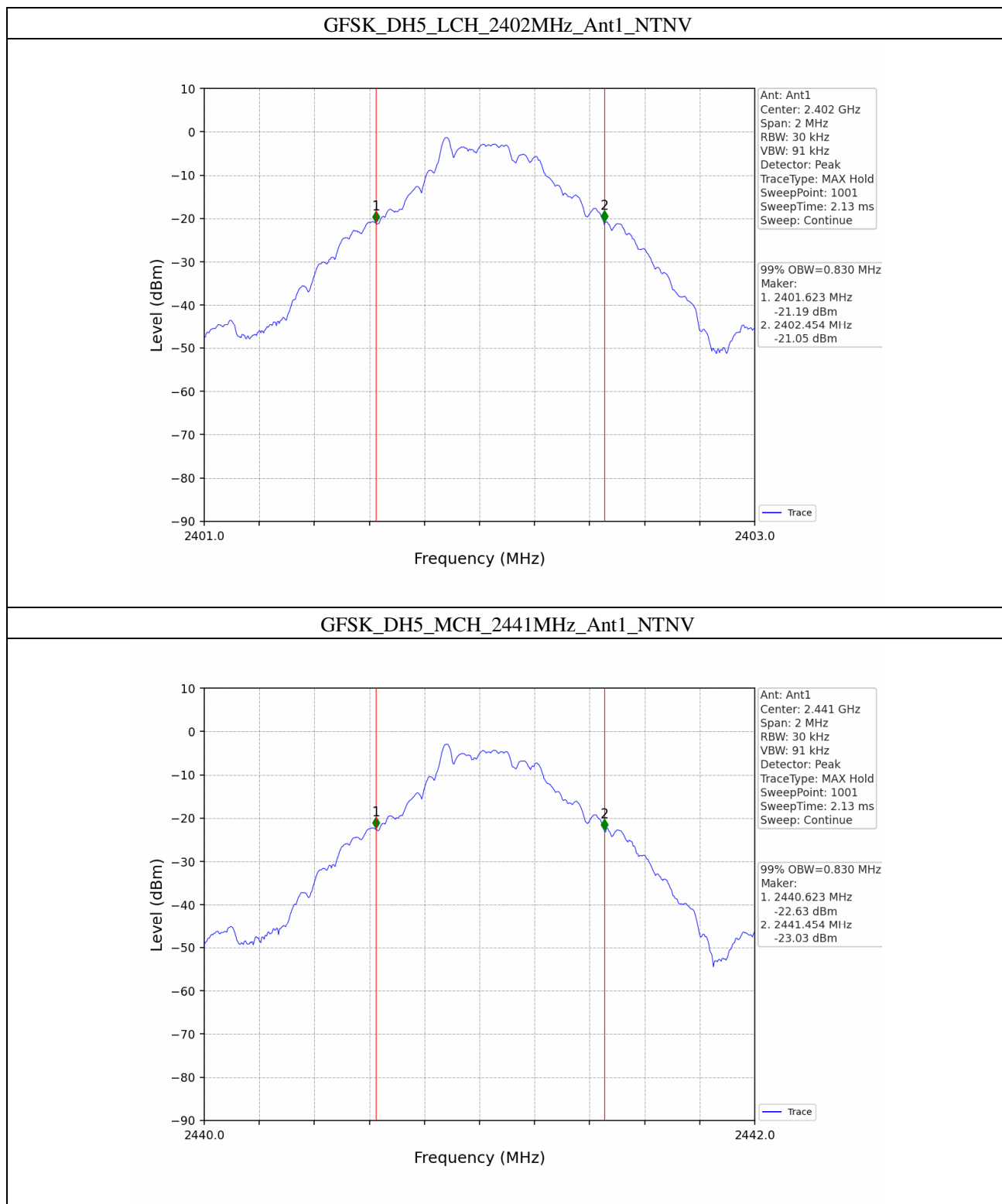
1. Bandwidth

1.1 OBW

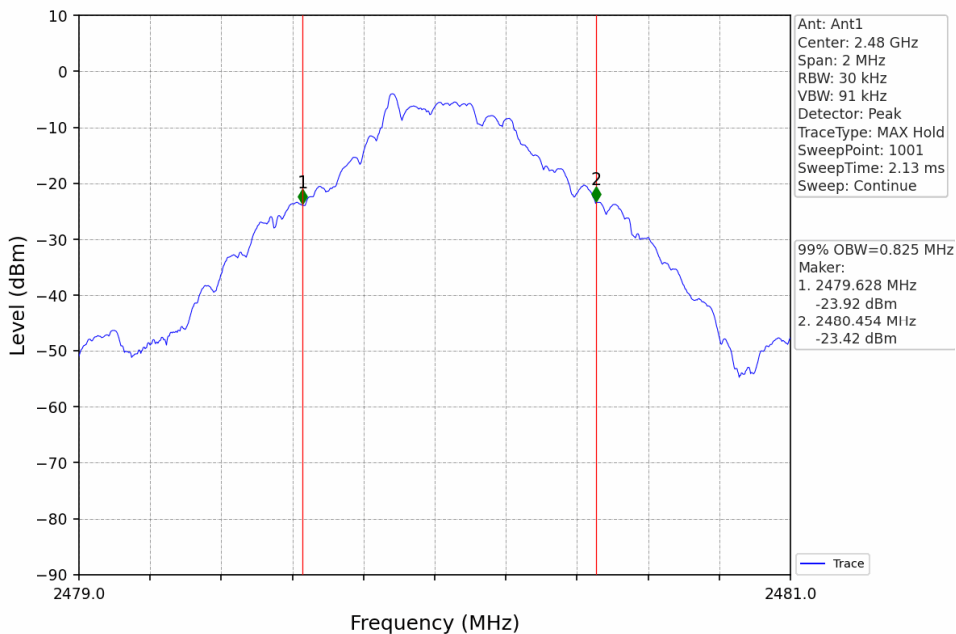
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.830	Pass
		2441	DH5	1	0.830	Pass
		2480	DH5	1	0.825	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.164	Pass
		2441	2DH5	1	1.164	Pass
		2480	2DH5	1	1.164	Pass
8DPSK	SISO	2402	3DH5	1	1.173	Pass
		2441	3DH5	1	1.172	Pass
		2480	3DH5	1	1.174	Pass

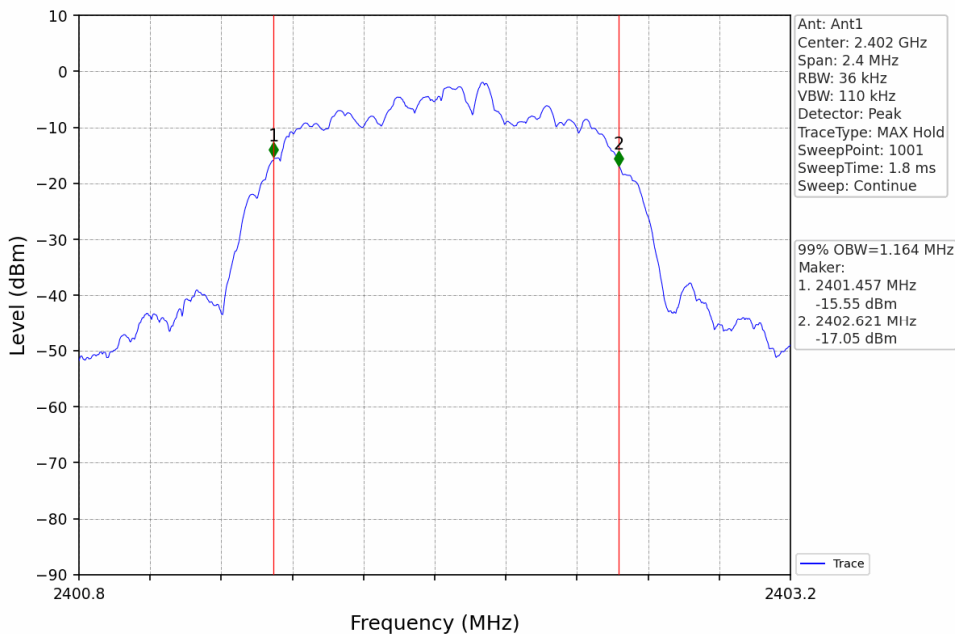
1.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV

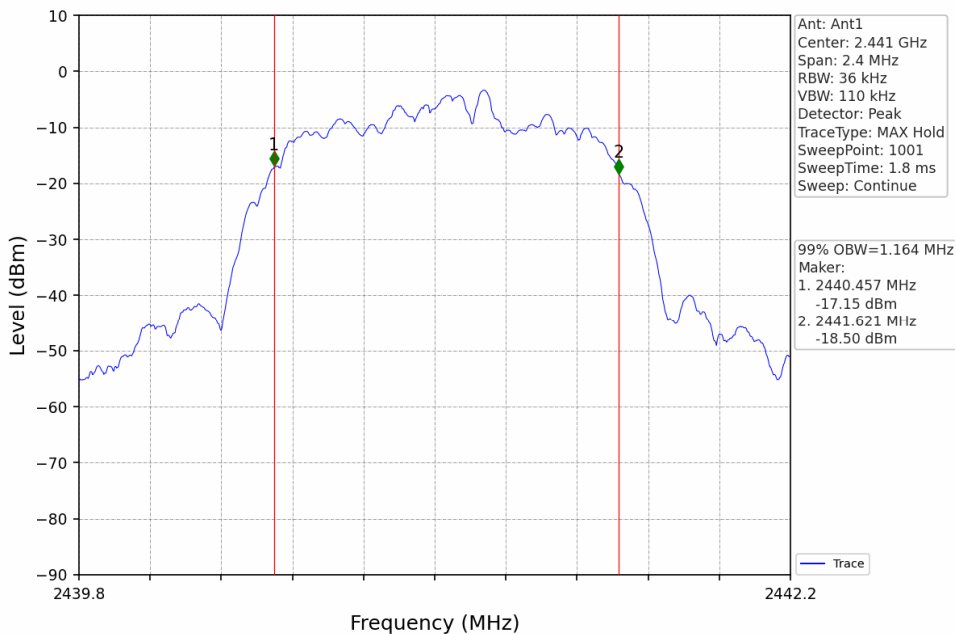


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

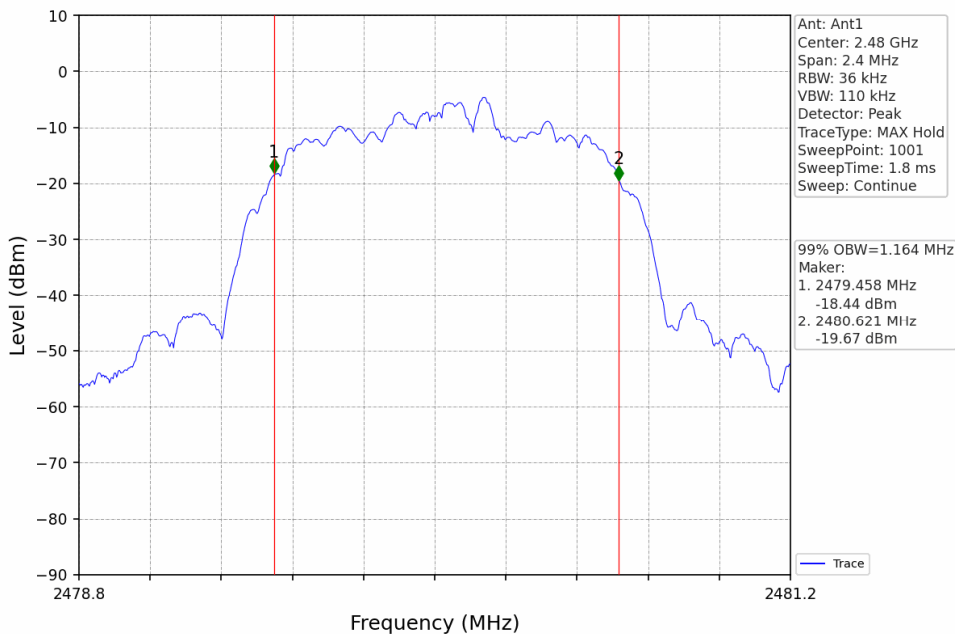


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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



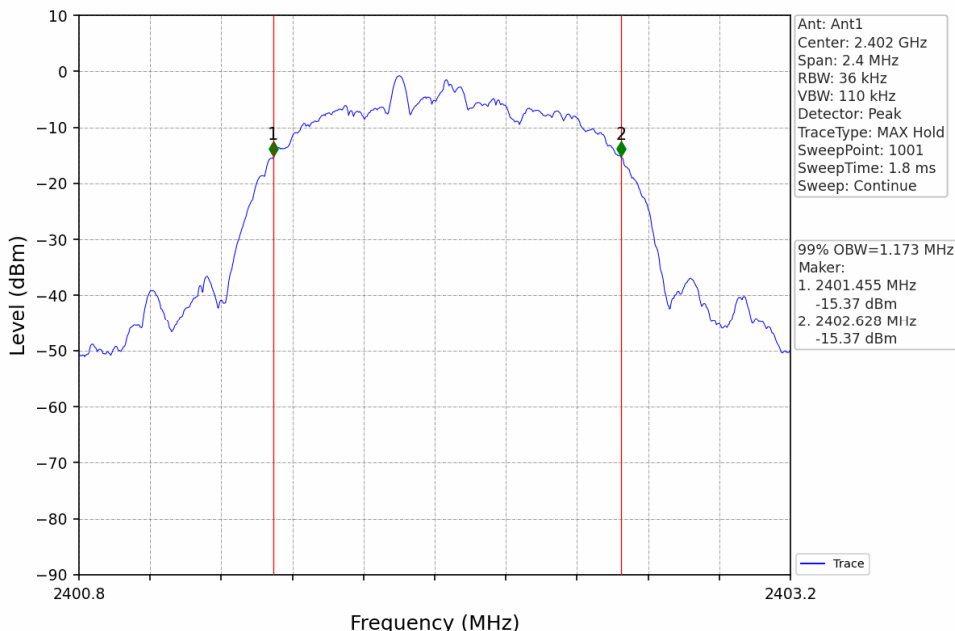
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



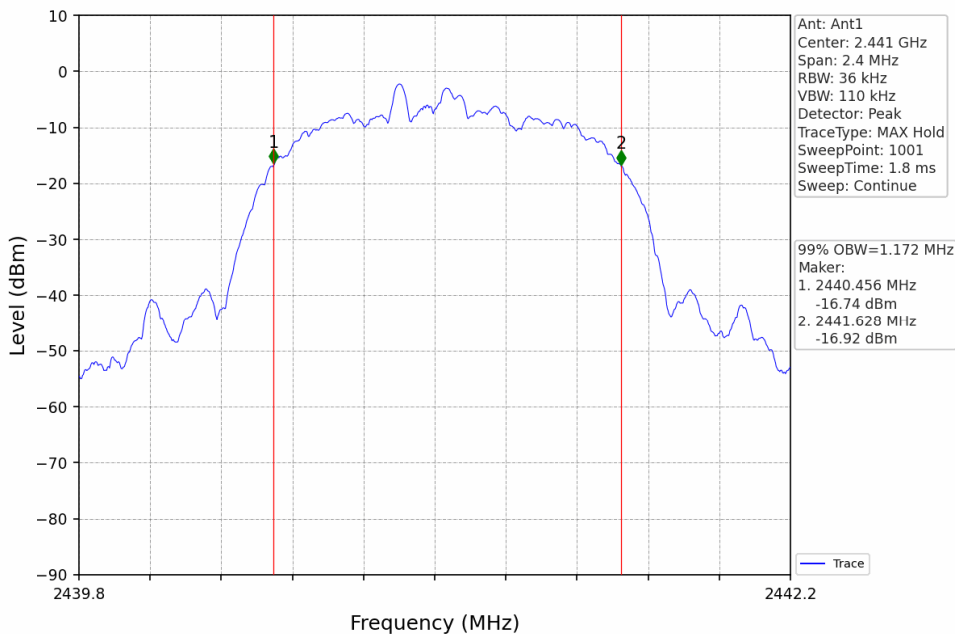
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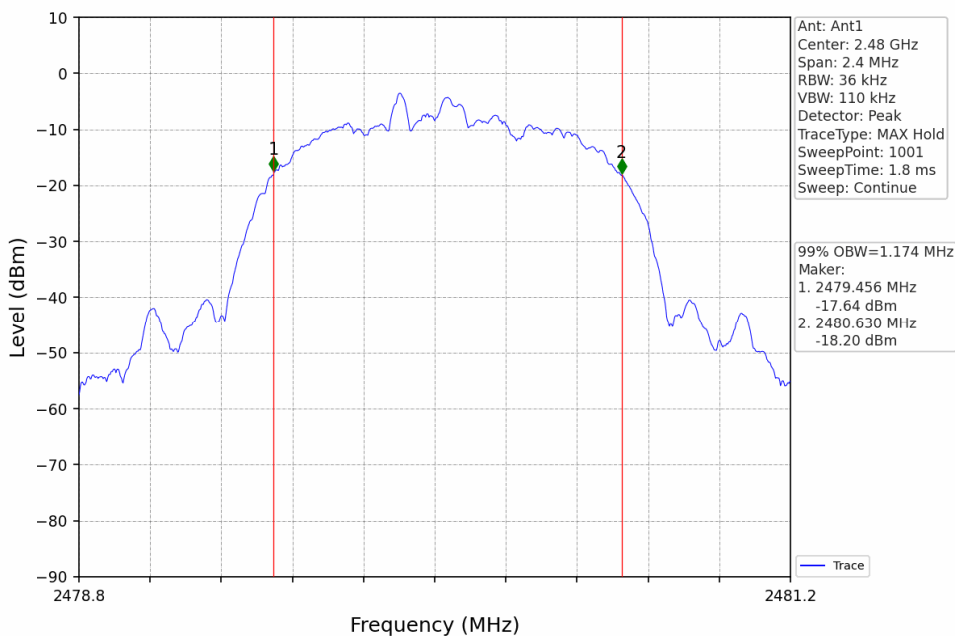
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

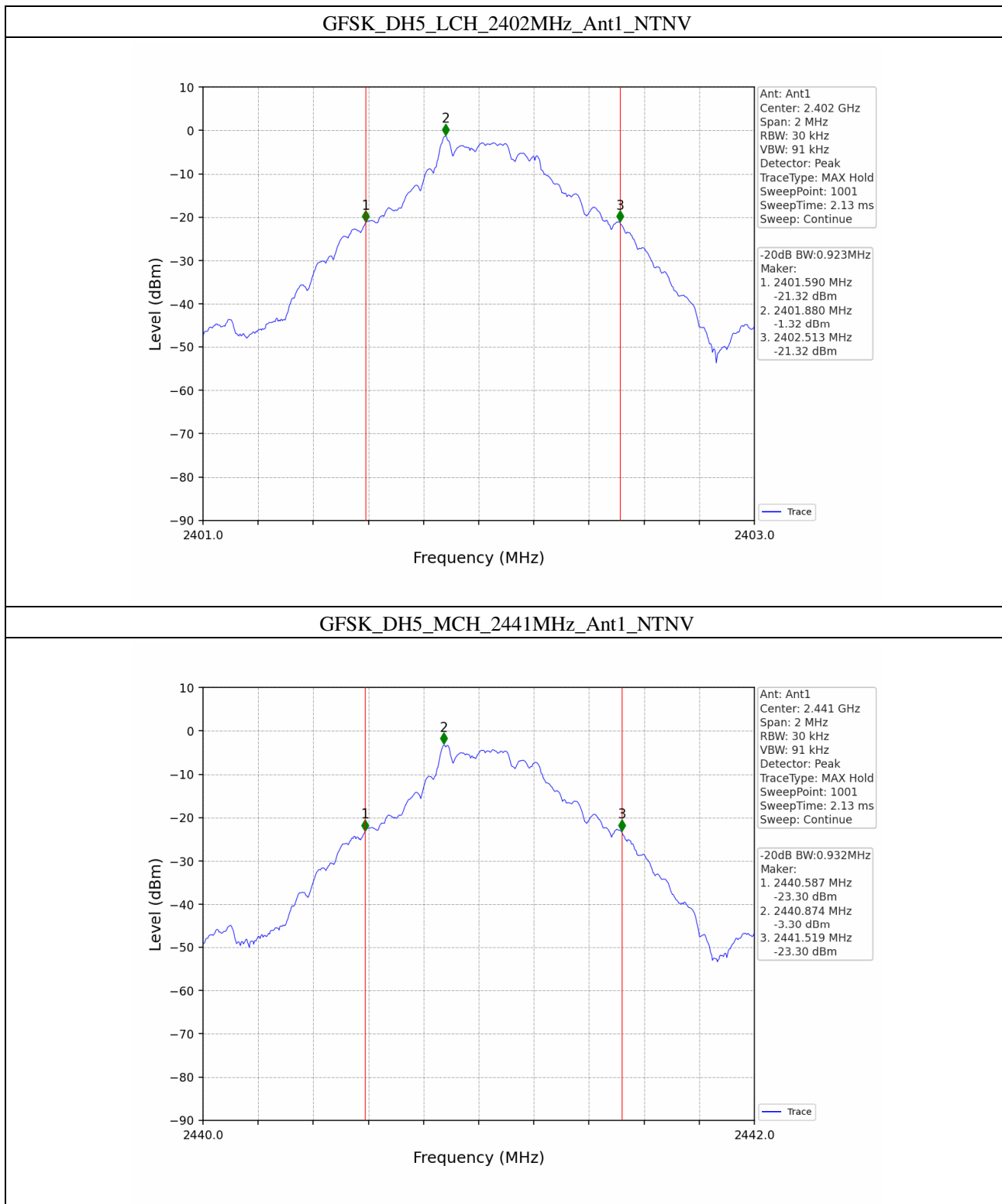


1.2 20dB BW

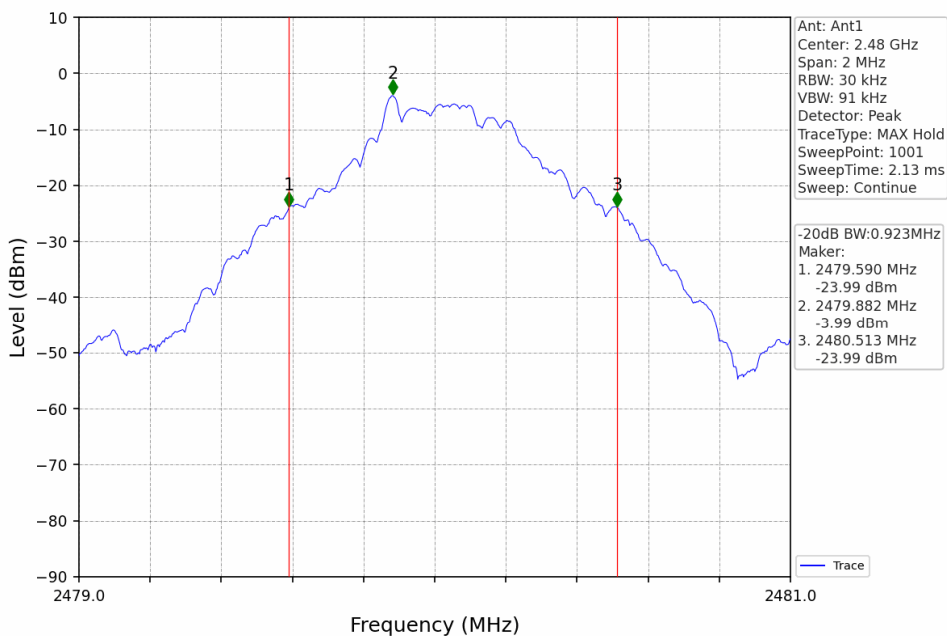
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.923	Pass
		2441	DH5	1	0.932	Pass
		2480	DH5	1	0.923	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.321	Pass
		2441	2DH5	1	1.318	Pass
		2480	2DH5	1	1.316	Pass
8DPSK	SISO	2402	3DH5	1	1.295	Pass
		2441	3DH5	1	1.299	Pass
		2480	3DH5	1	1.295	Pass

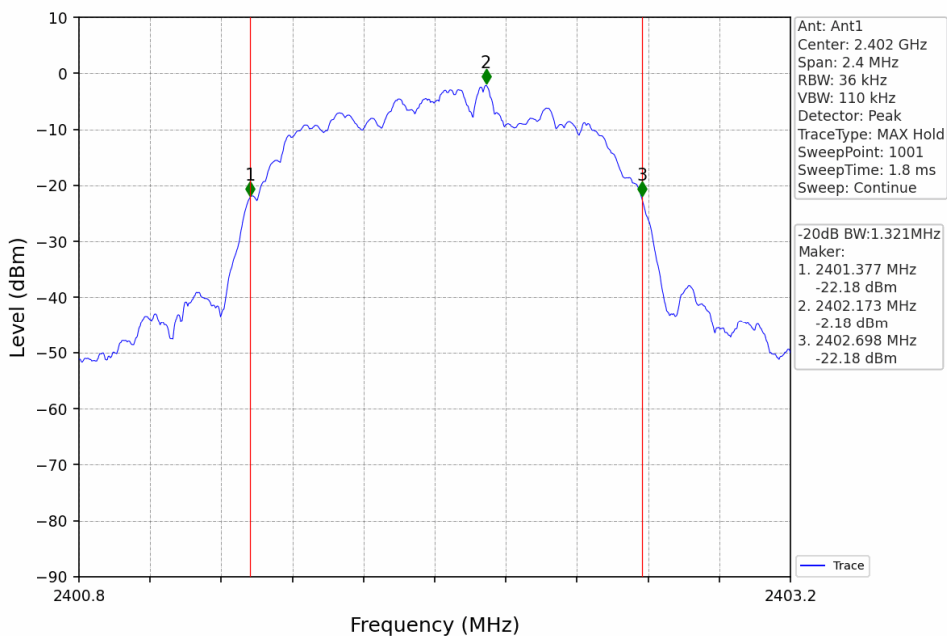
1.2.2 Test Graph



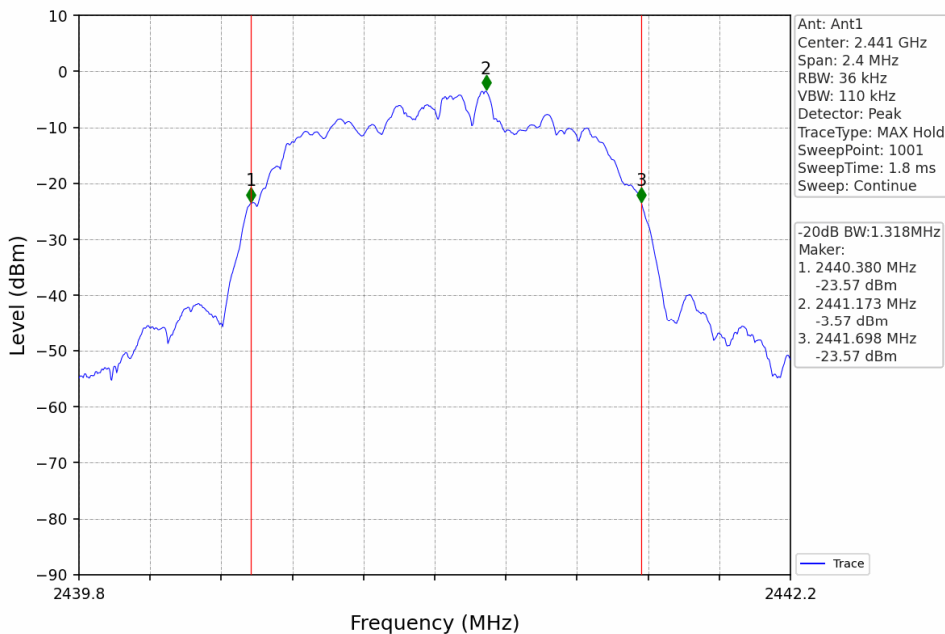
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



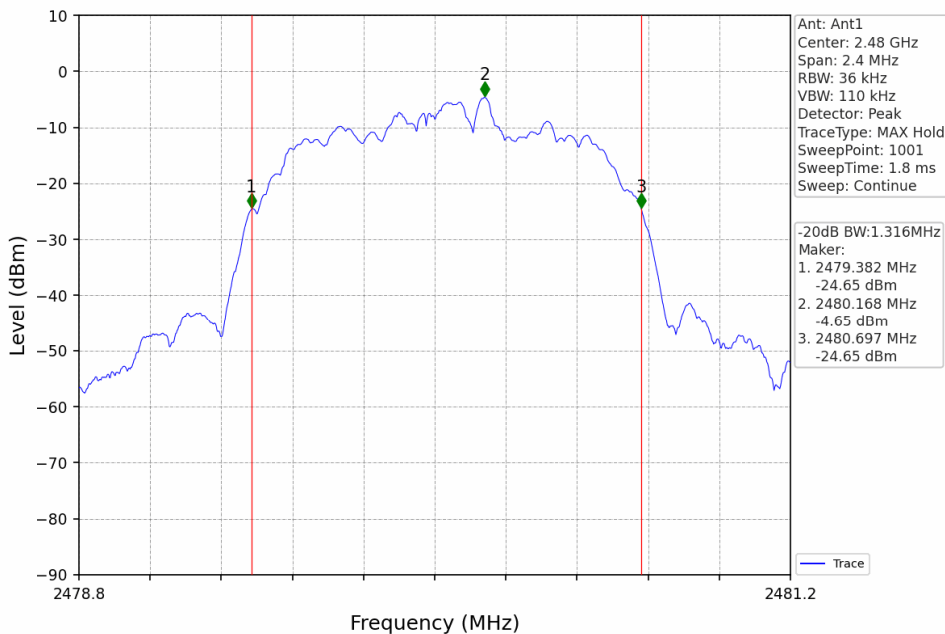
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



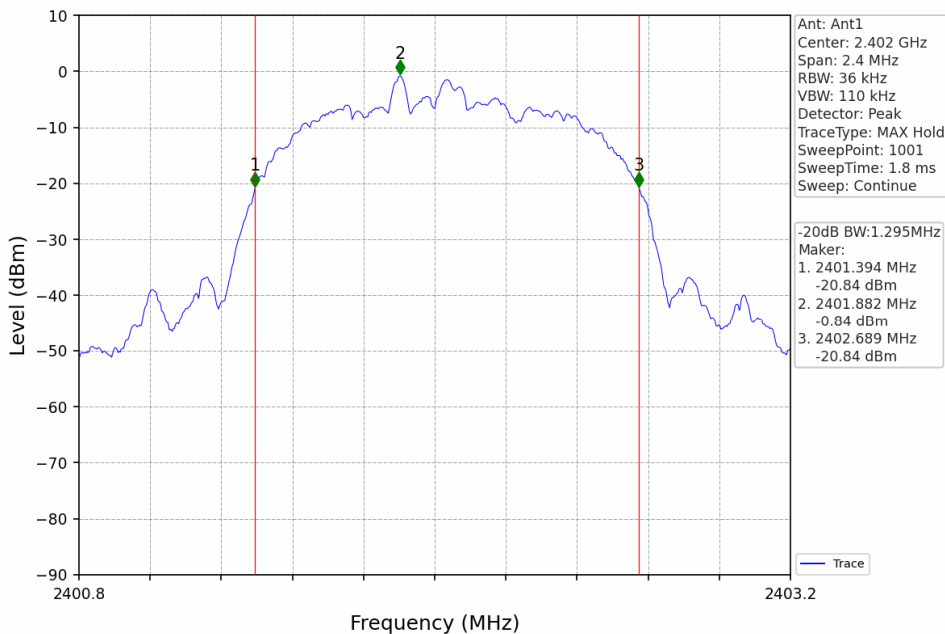
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



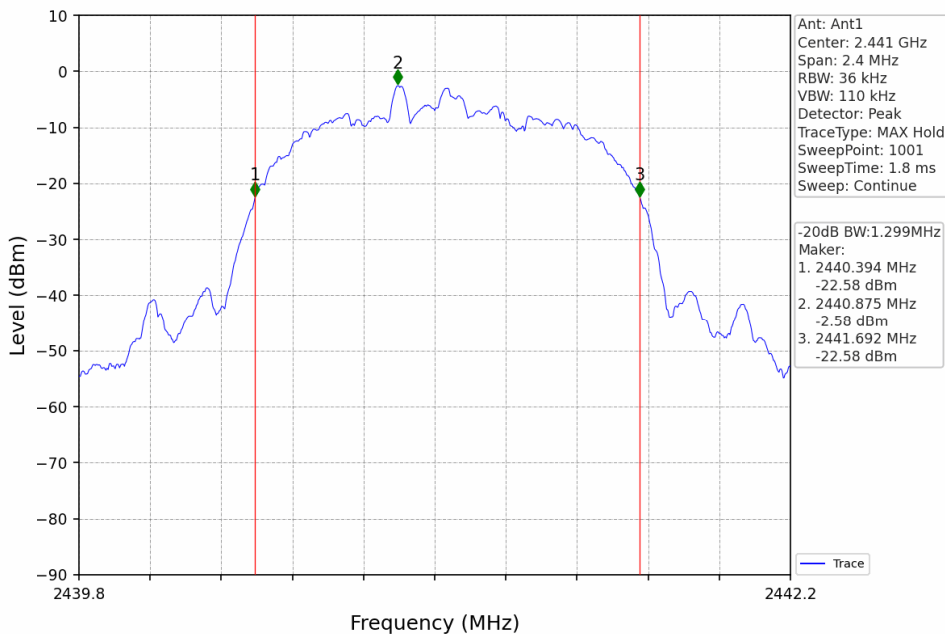
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

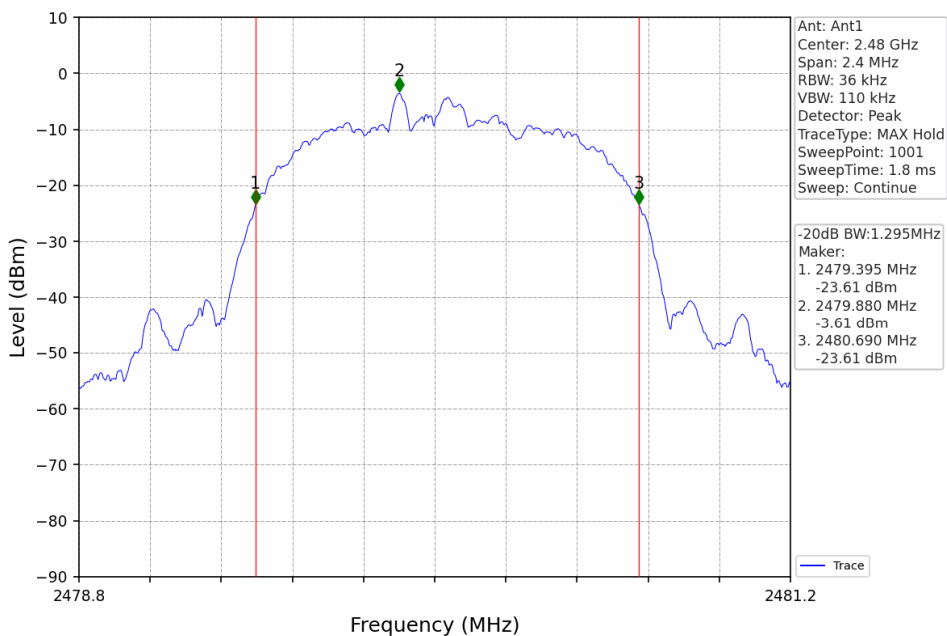


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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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	-0.30	<=20.97	Pass
		2441	DH5	-1.85	<=20.97	Pass
		2480	DH5	-2.99	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.25	<=20.97	Pass
		2441	2DH5	0.70	<=20.97	Pass
		2480	2DH5	-0.59	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.75	<=20.97	Pass
		2441	3DH5	1.19	<=20.97	Pass
		2480	3DH5	-0.11	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.67dBi;

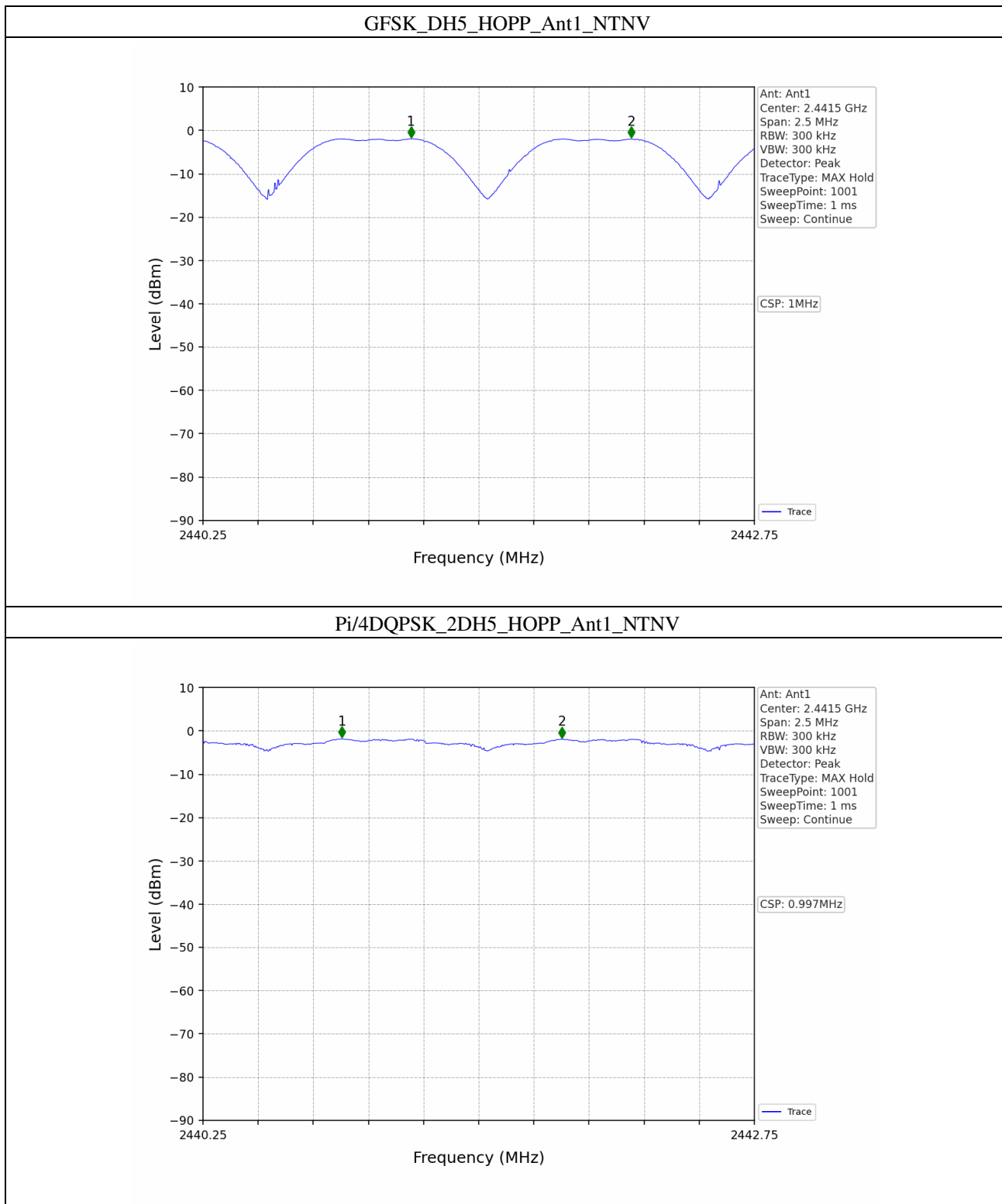
3. Carrier Frequency Separation

3.1 Ant1

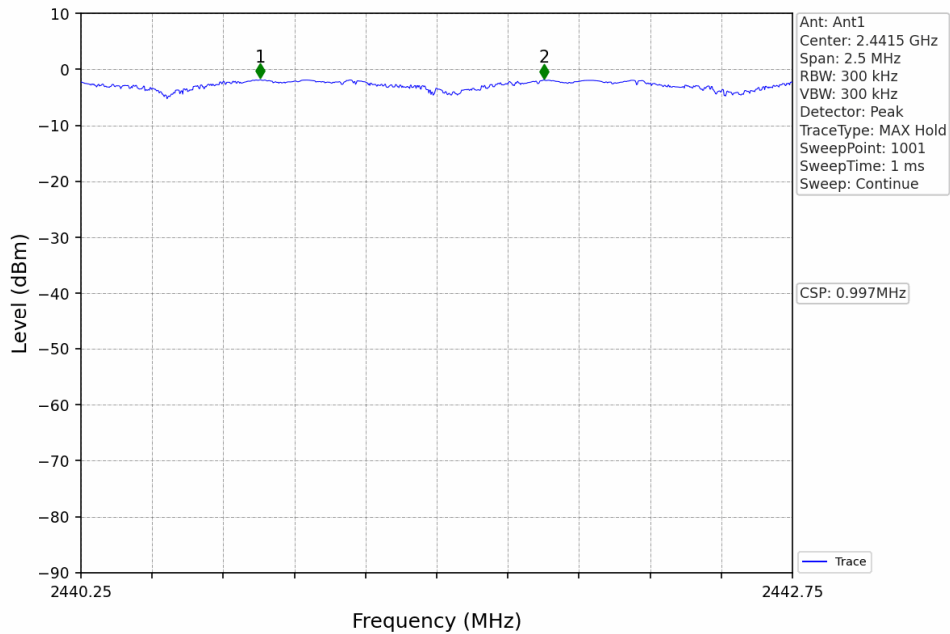
3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.932	≥ 0.932	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.997	1.321	≥ 0.881	Pass
8DPSK	SISO	HOPP	3DH5	0.997	1.299	≥ 0.866	Pass

3.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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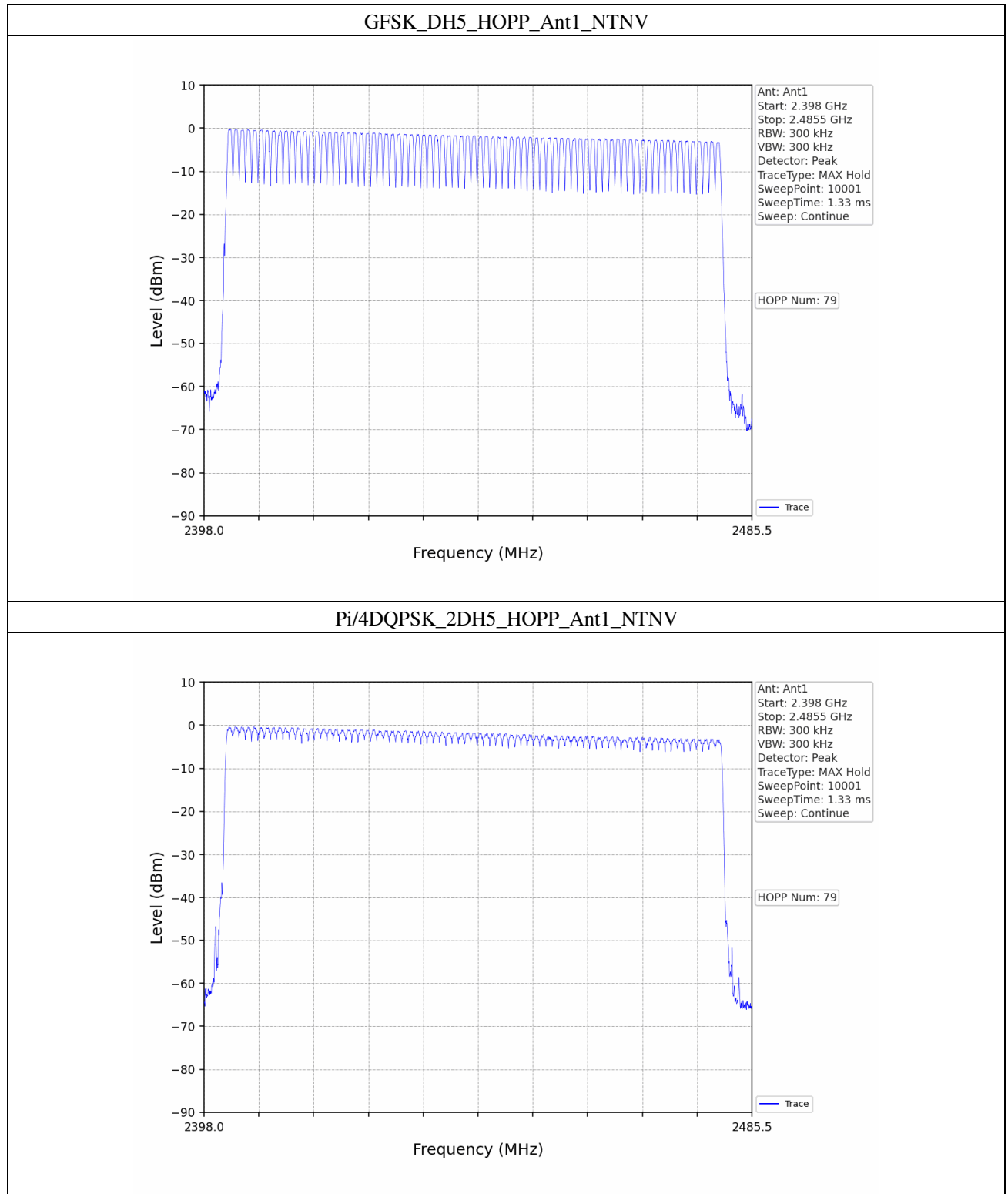
4. Number of Hopping Frequencies

4.1 HoppNum

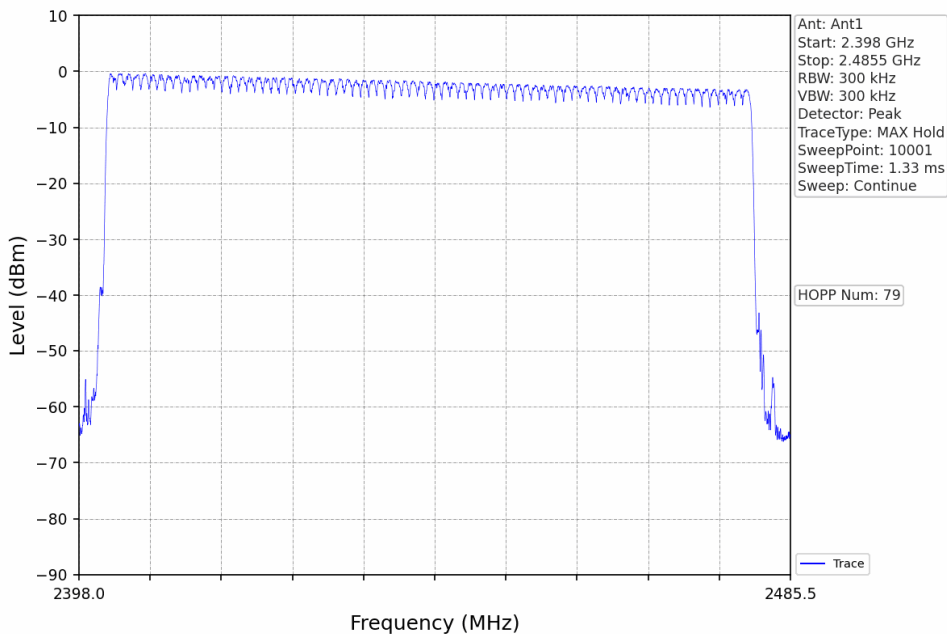
4.1.1 Test Result

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



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

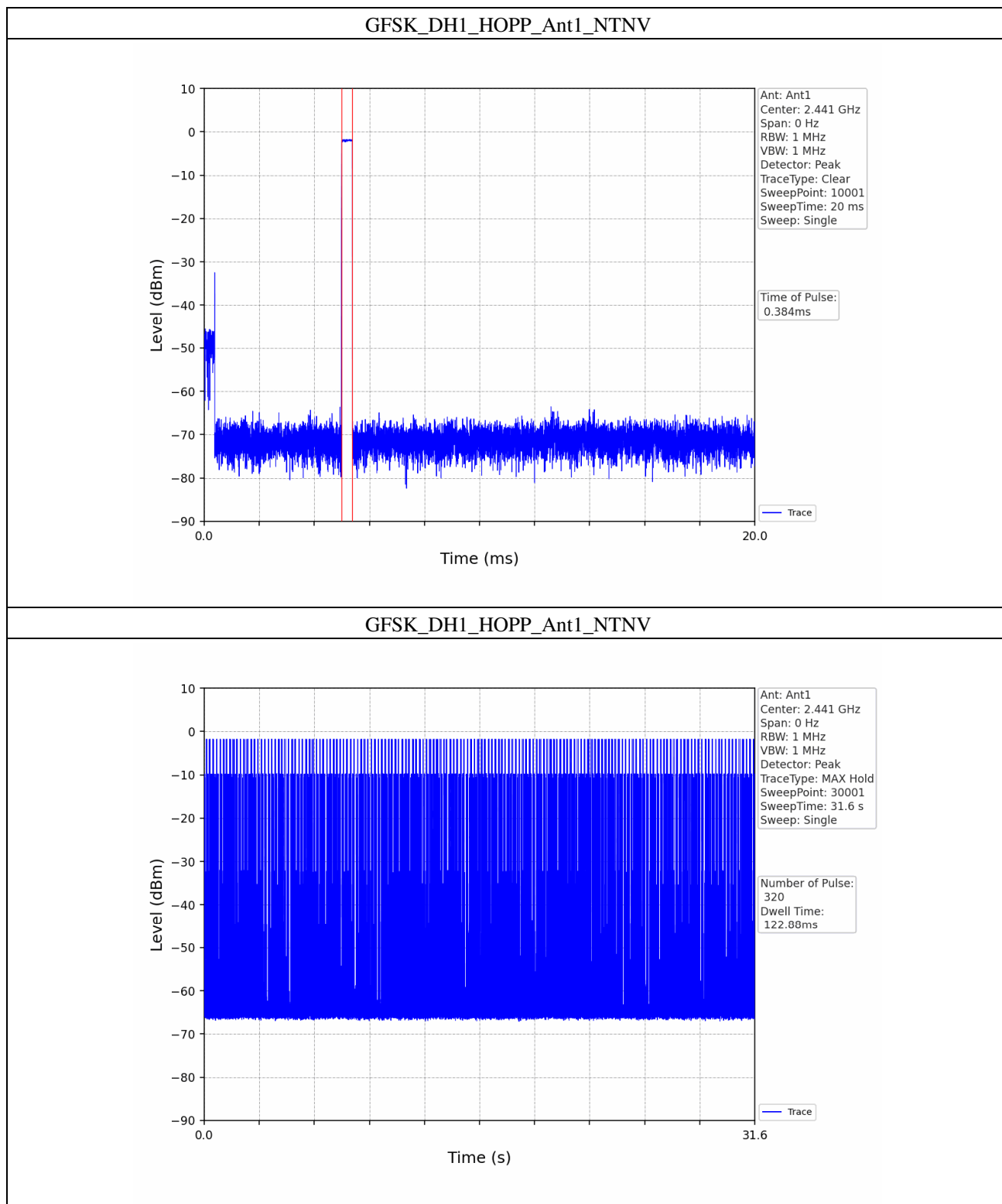
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	153	250.920	<=400	Pass
			DH5	2.890	31.600	113	326.570	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.648	31.600	153	252.144	<=400	Pass
			2DH5	2.896	31.600	102	295.392	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.646	31.600	153	251.838	<=400	Pass
			3DH5	2.898	31.600	98	284.004	<=400	Pass



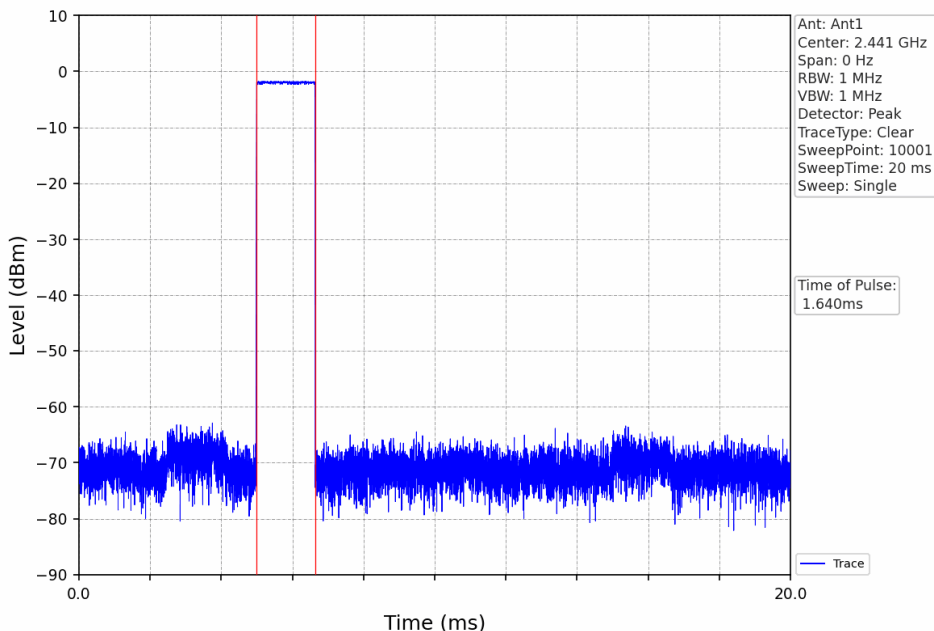
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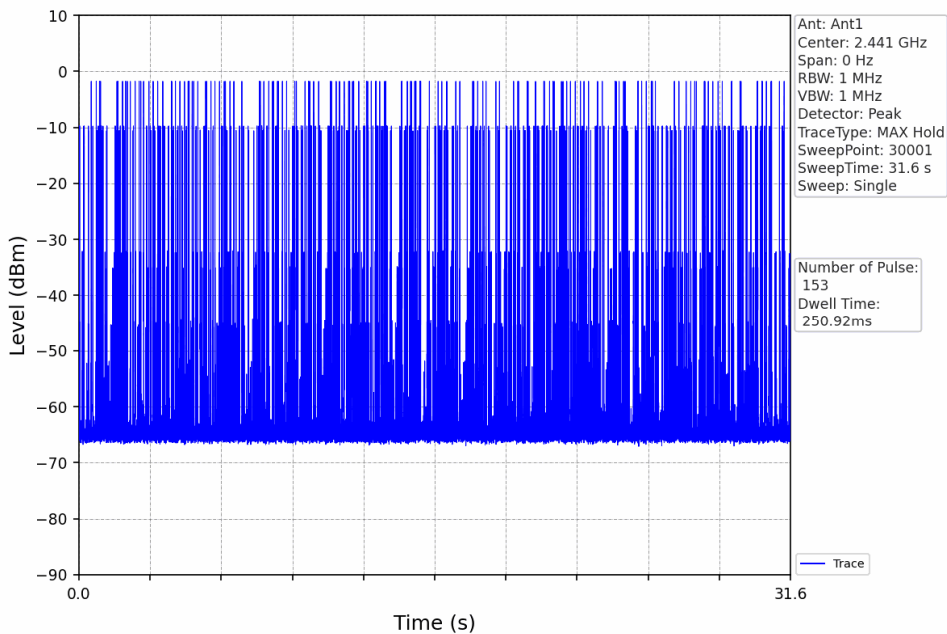
5.1.2 Test Graph



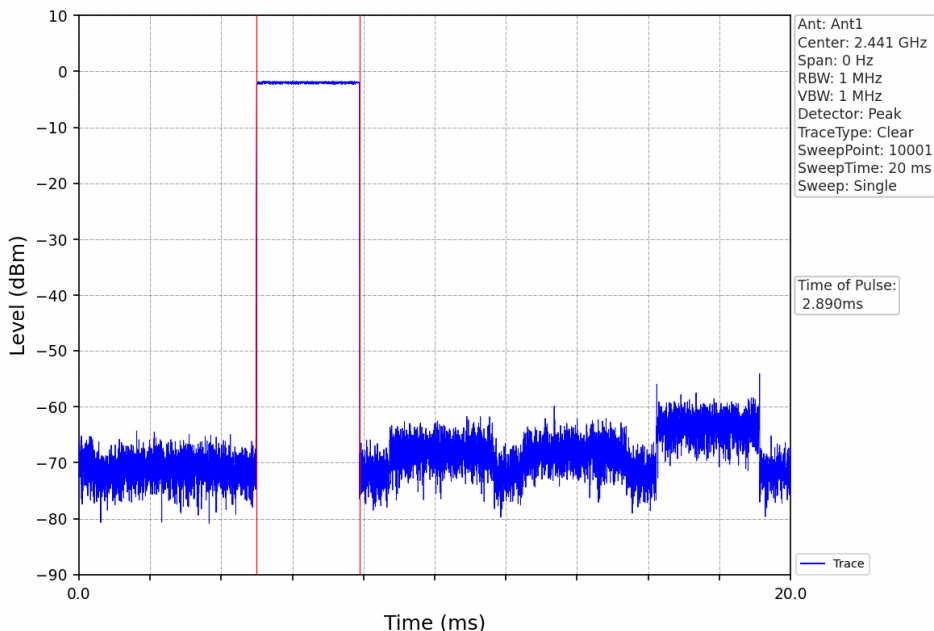
GFSK_DH3_HOPP_Ant1_NTNV



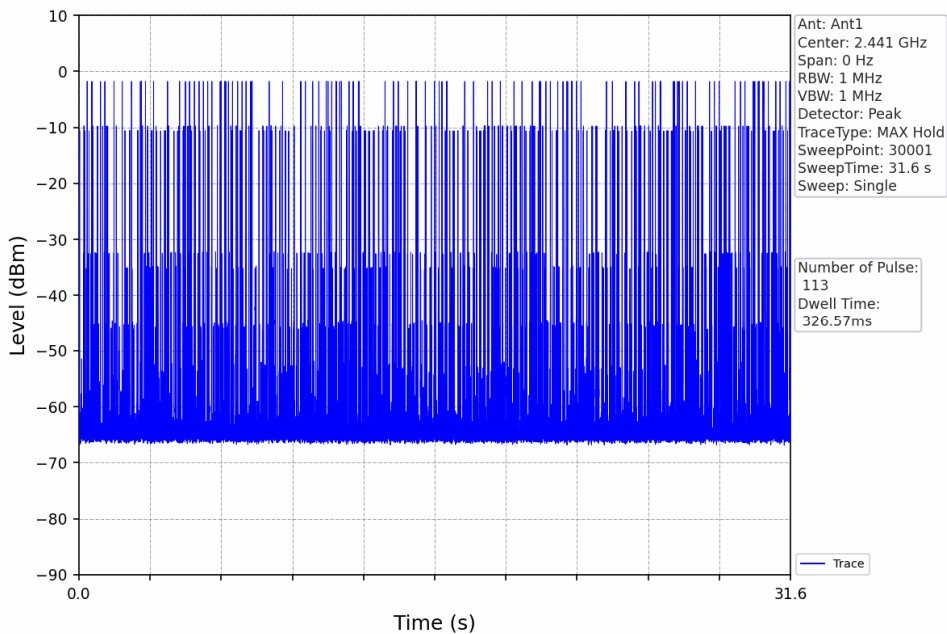
GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

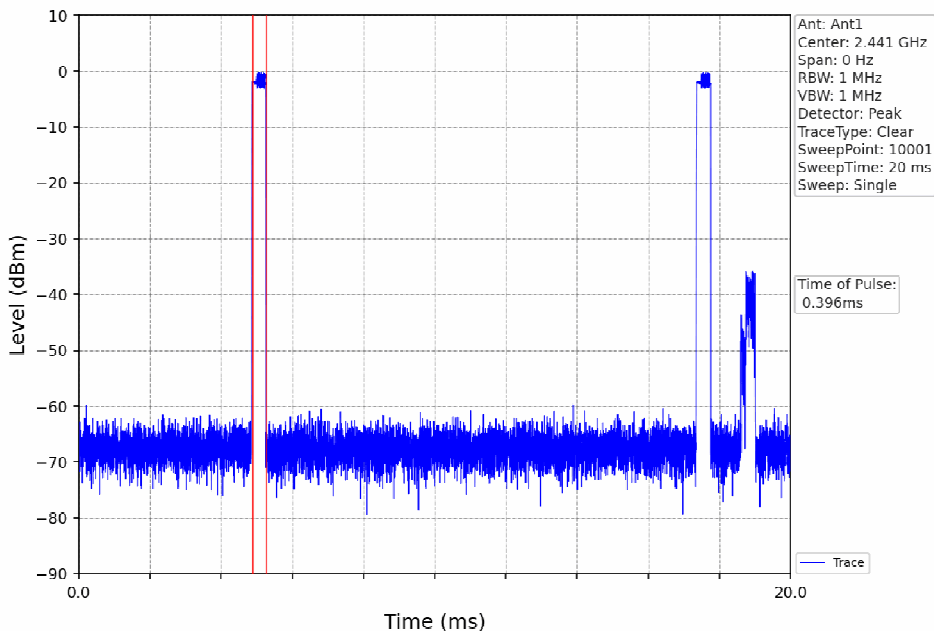


GFSK_DH5_HOPP_Ant1_NTNV

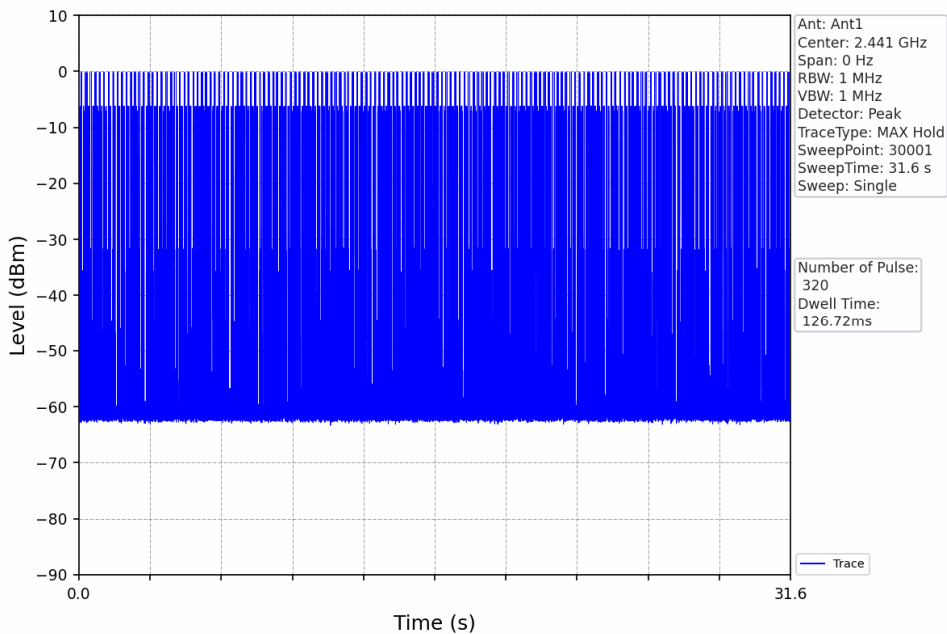


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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



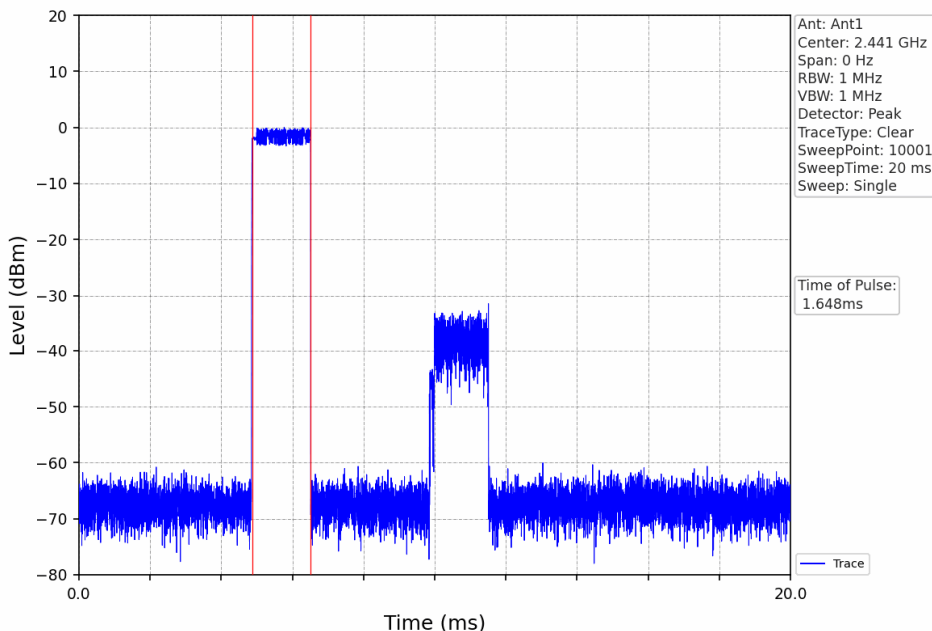
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



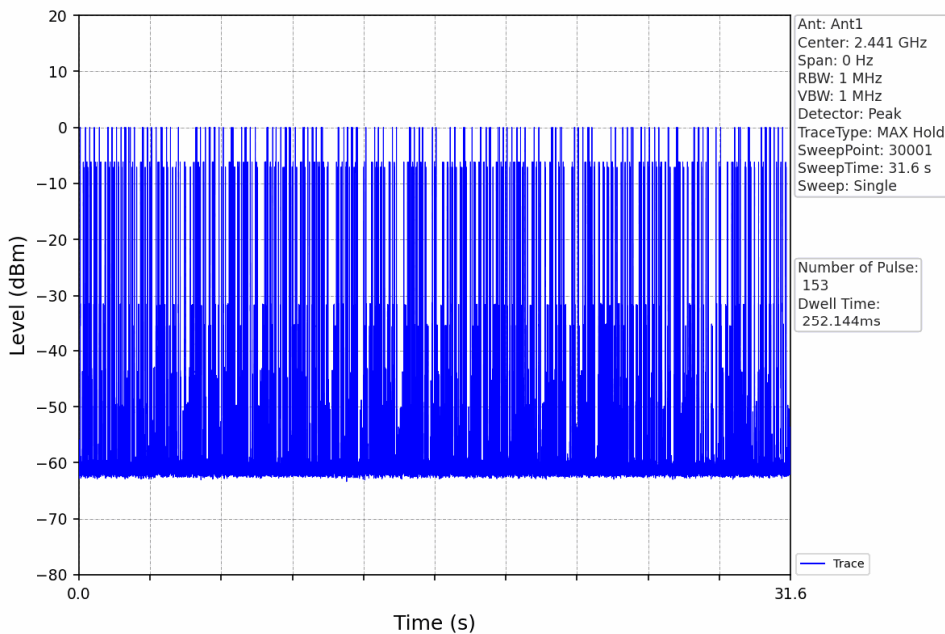
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



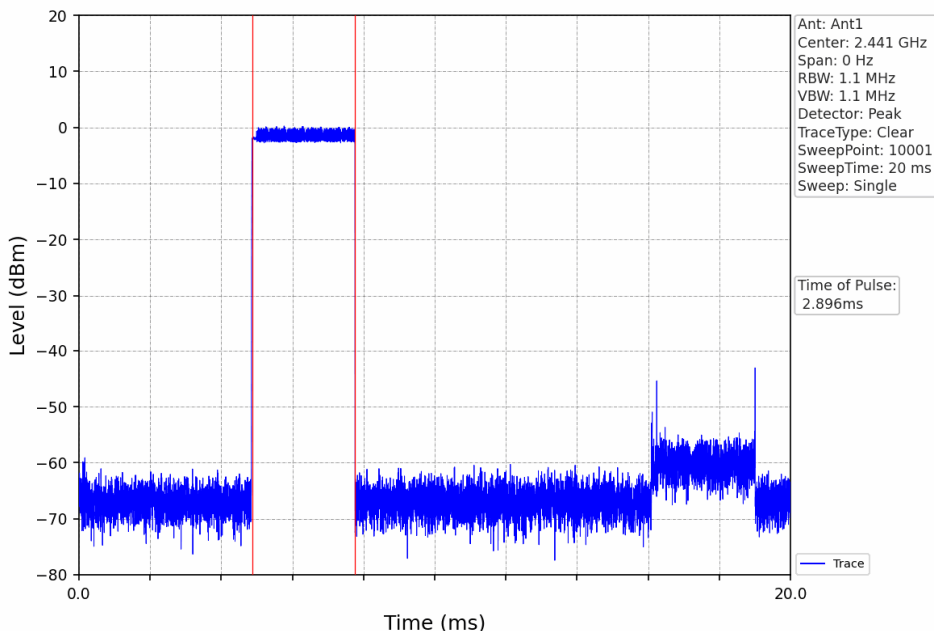
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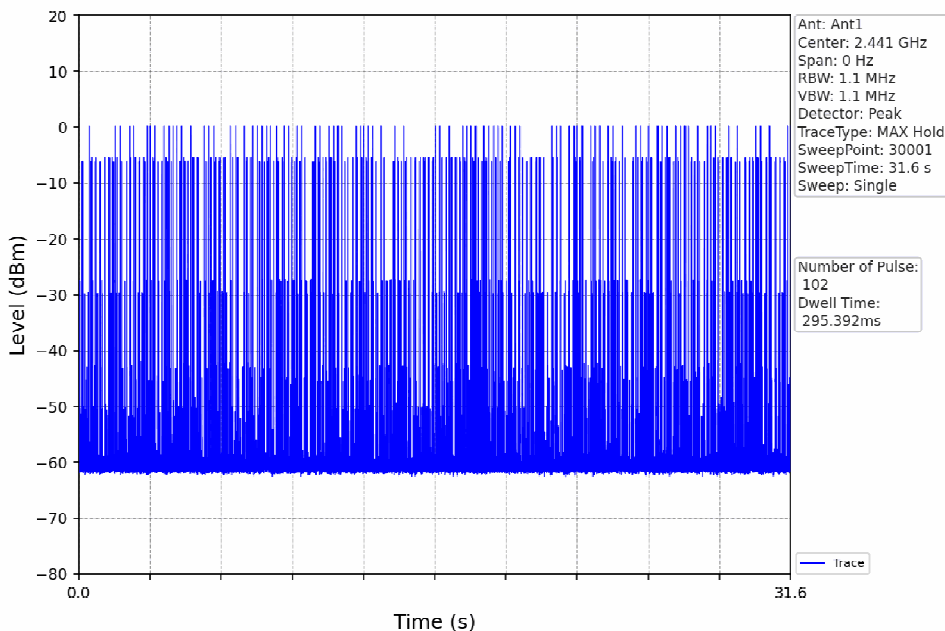
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



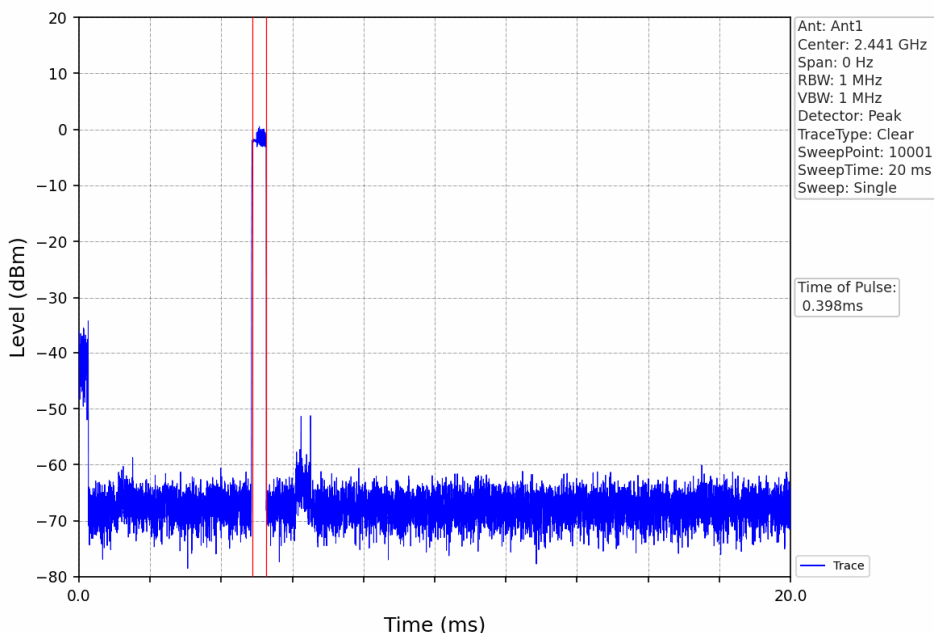
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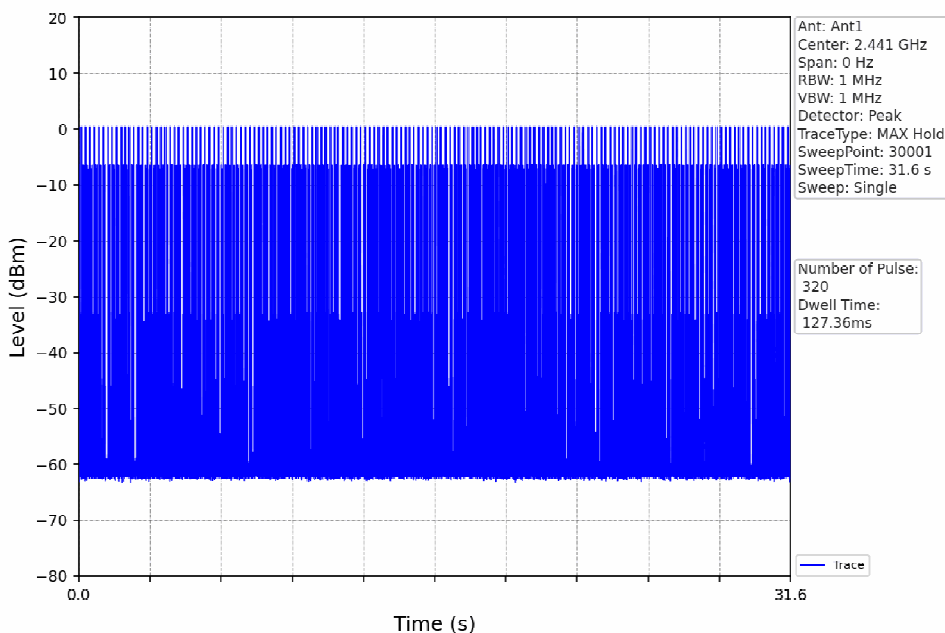
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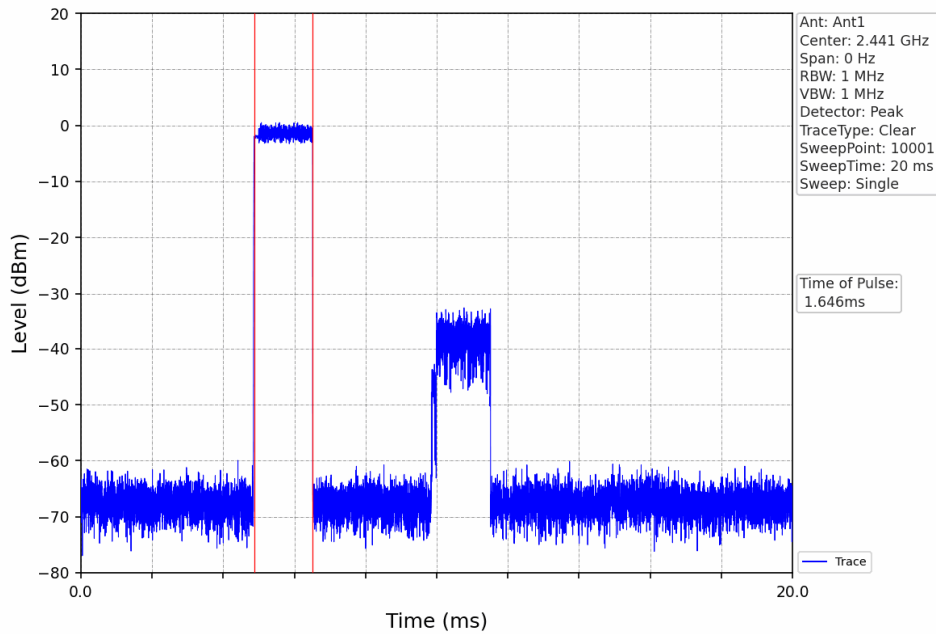
8DPSK_3DH1_HOPP_Ant1_NTNV



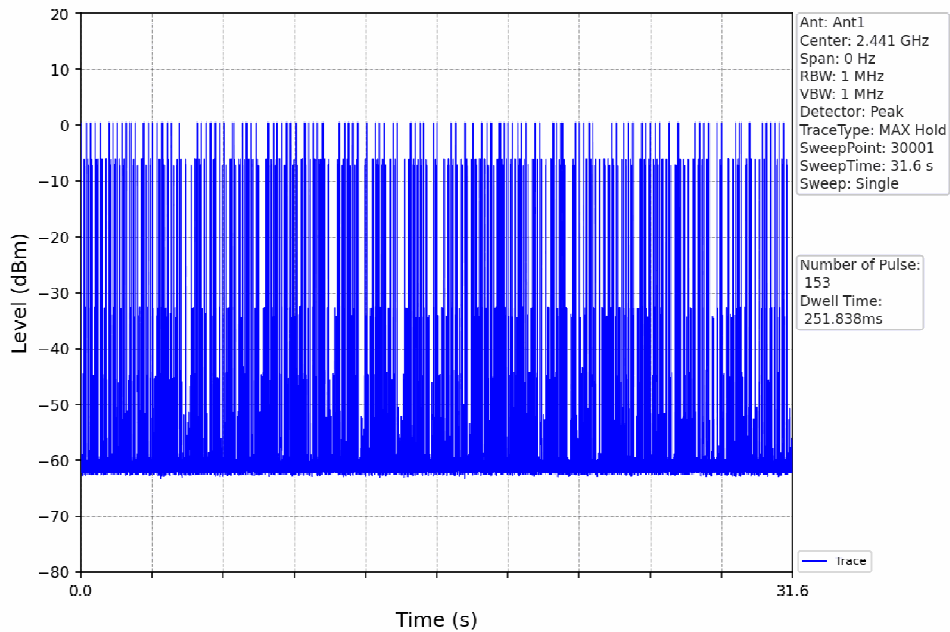
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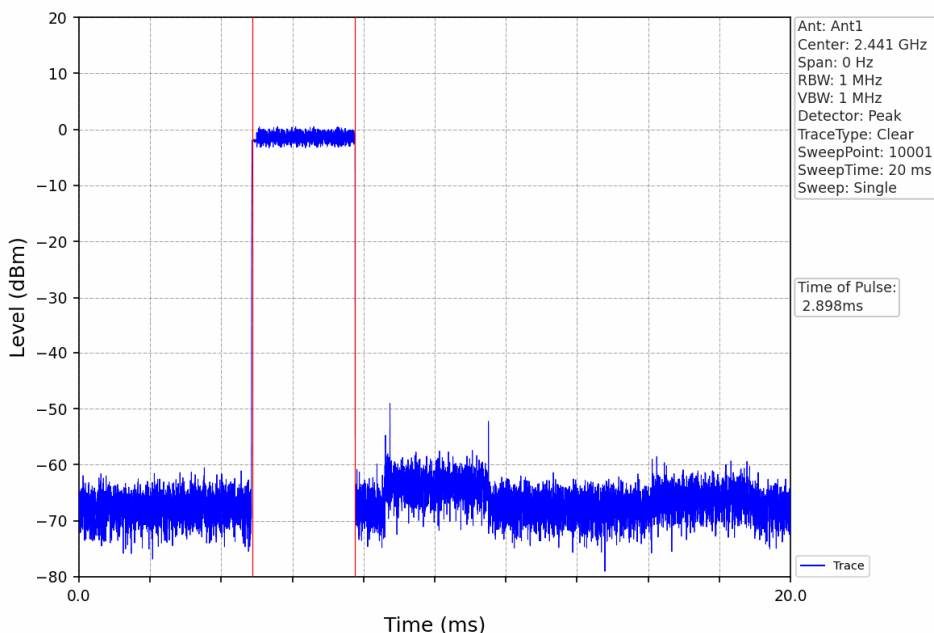
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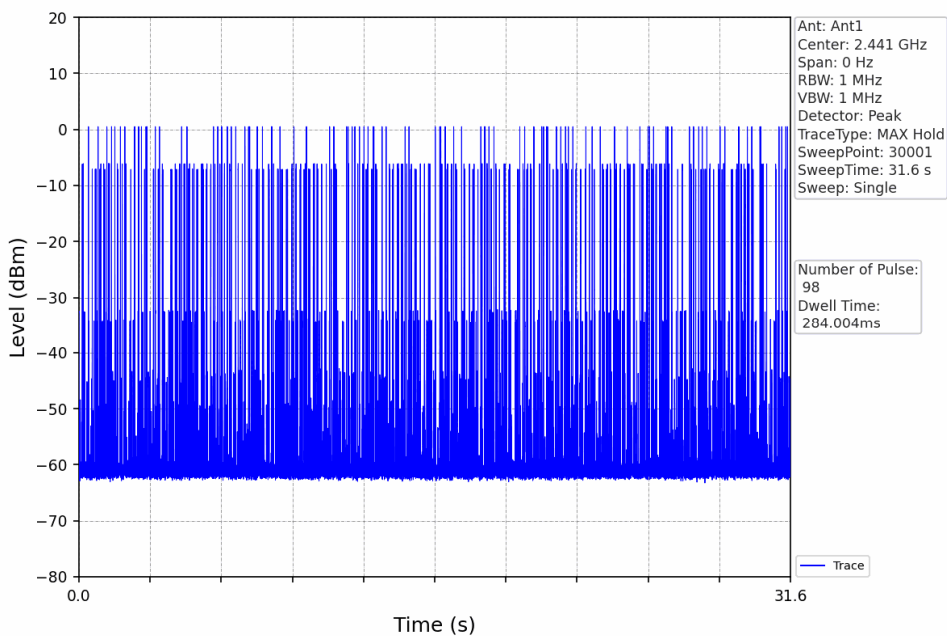
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

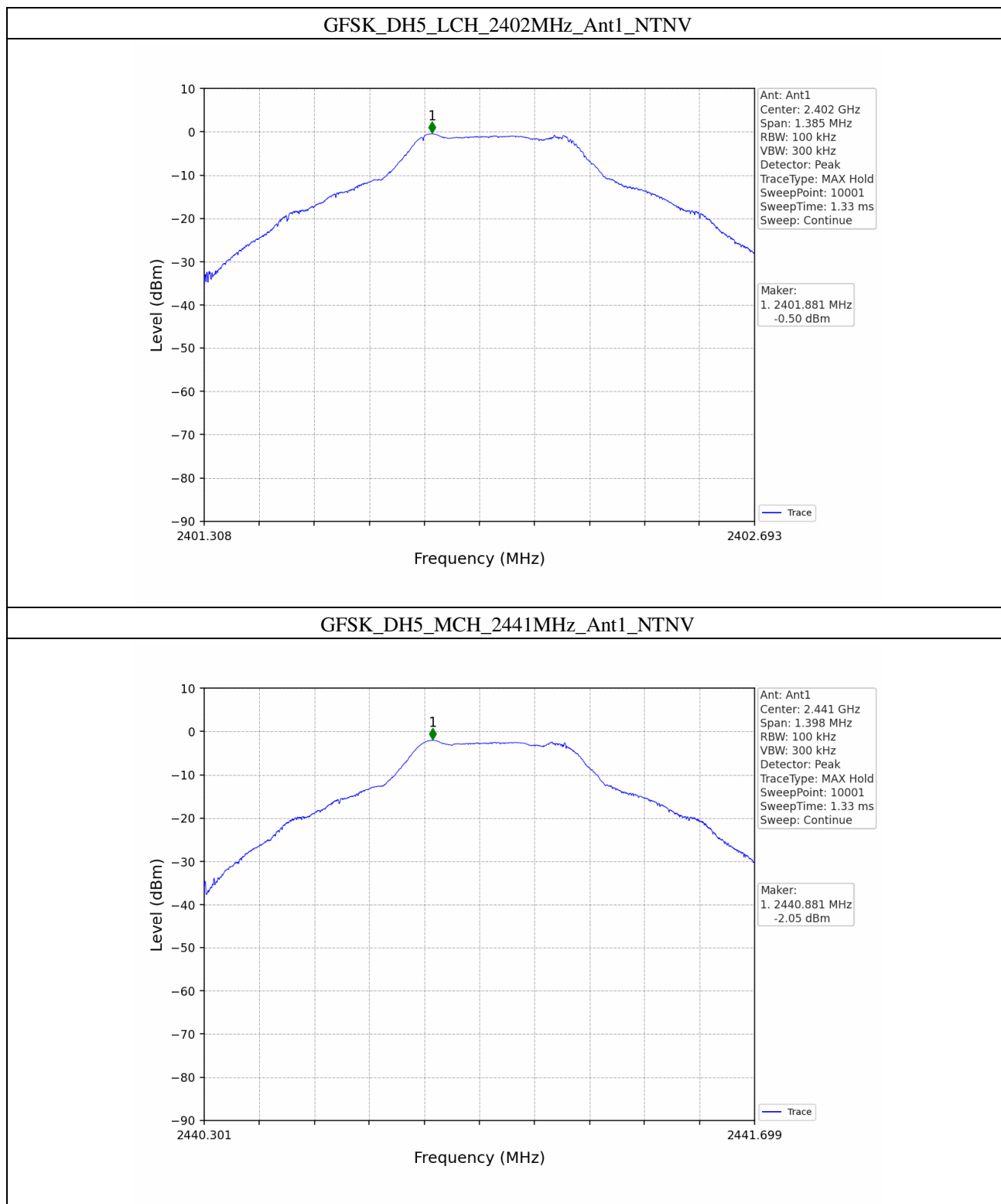
6.1 Ref

6.1.1 Test Result

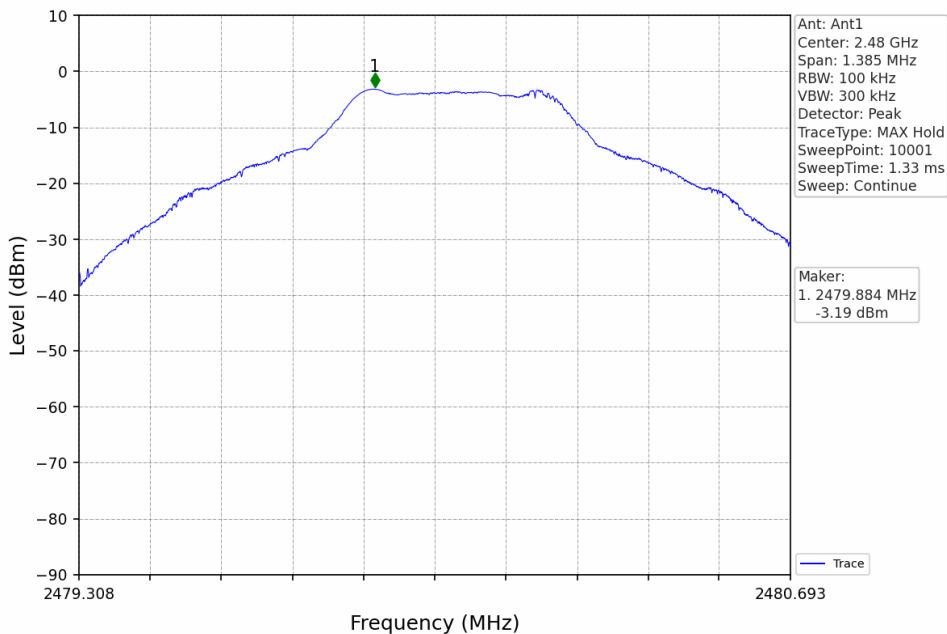
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.50
		2441	DH5	1	-2.05
		2480	DH5	1	-3.19
Pi/4DQPSK	SISO	2402	2DH5	1	-0.57
		2441	2DH5	1	-2.07
		2480	2DH5	1	-3.35
8DPSK	SISO	2402	3DH5	1	-0.41
		2441	3DH5	1	-1.89
		2480	3DH5	1	-3.18

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.

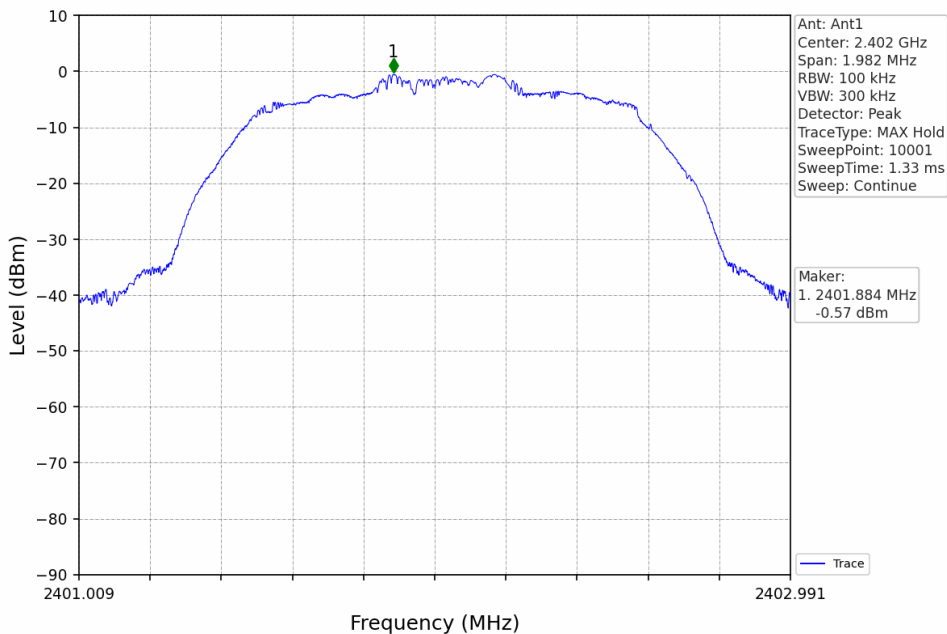
6.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



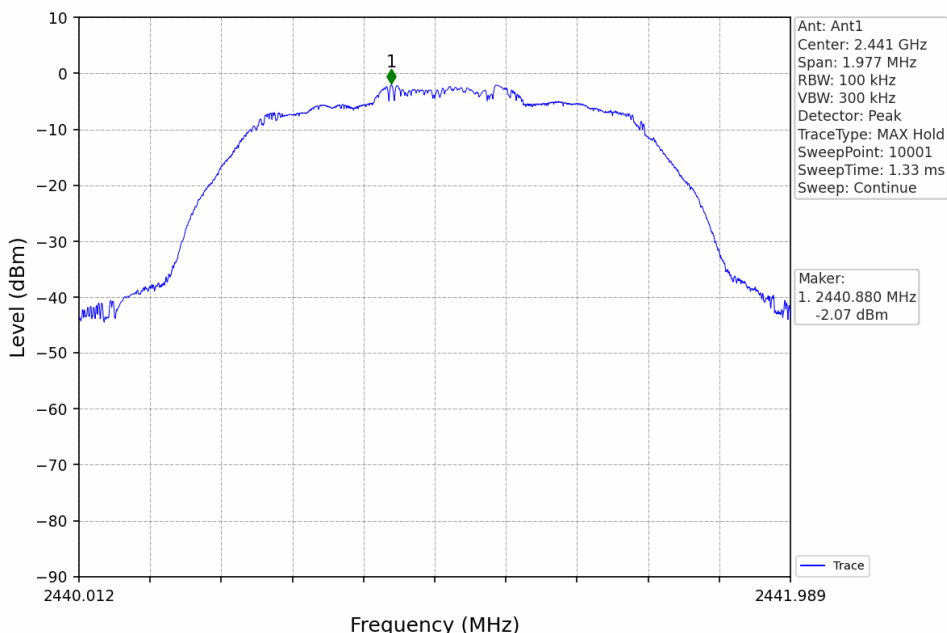
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



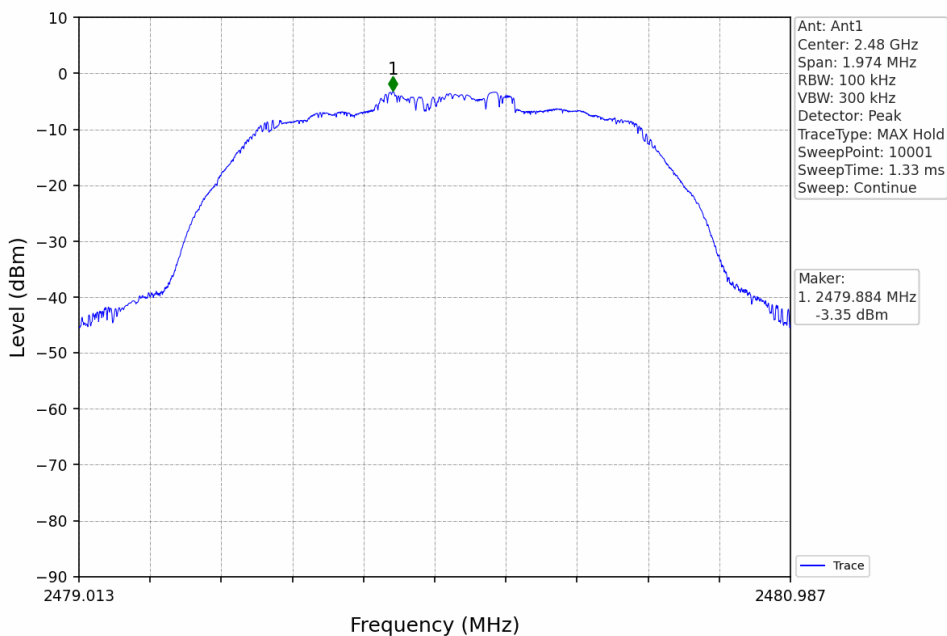
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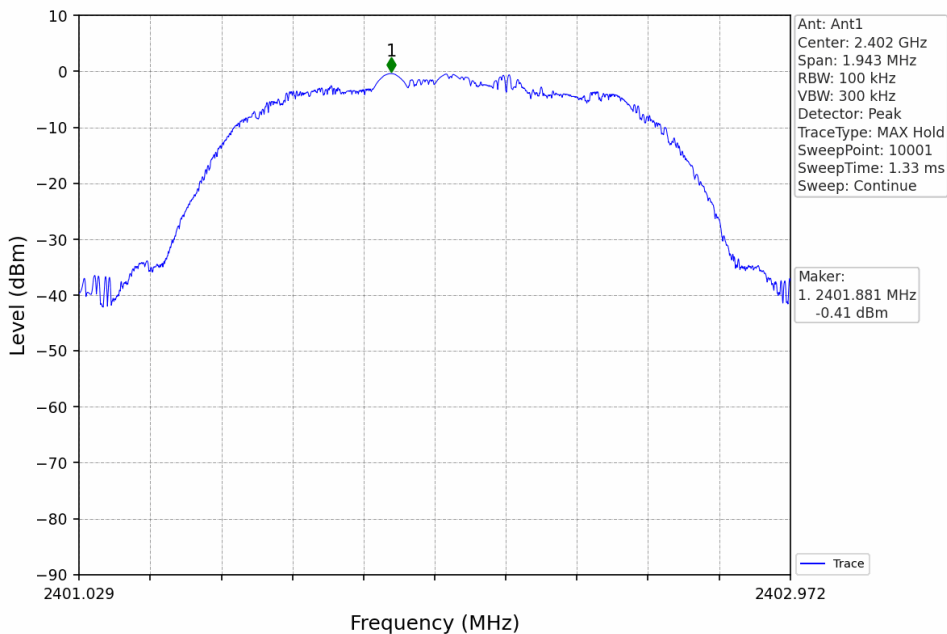
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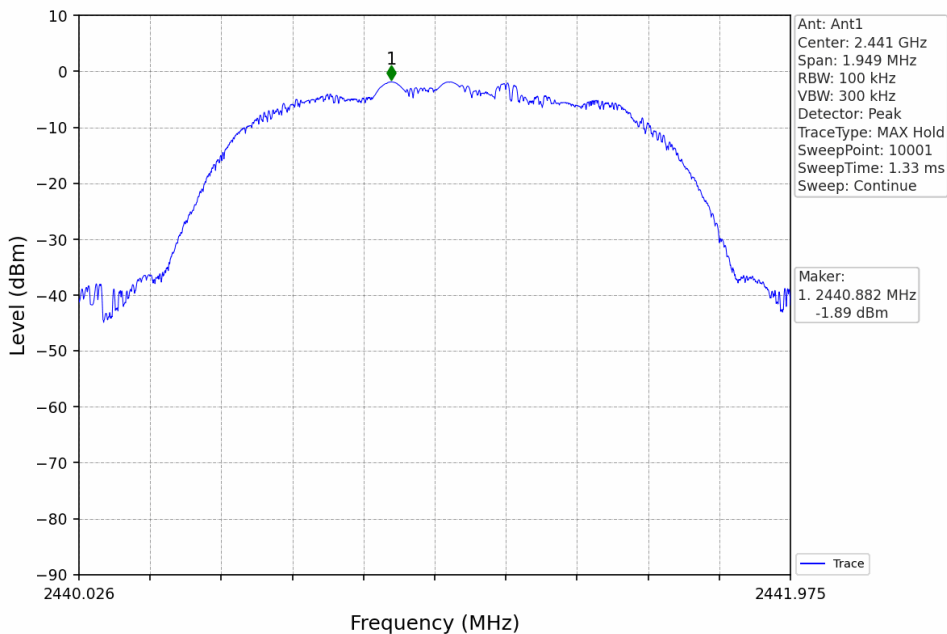
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

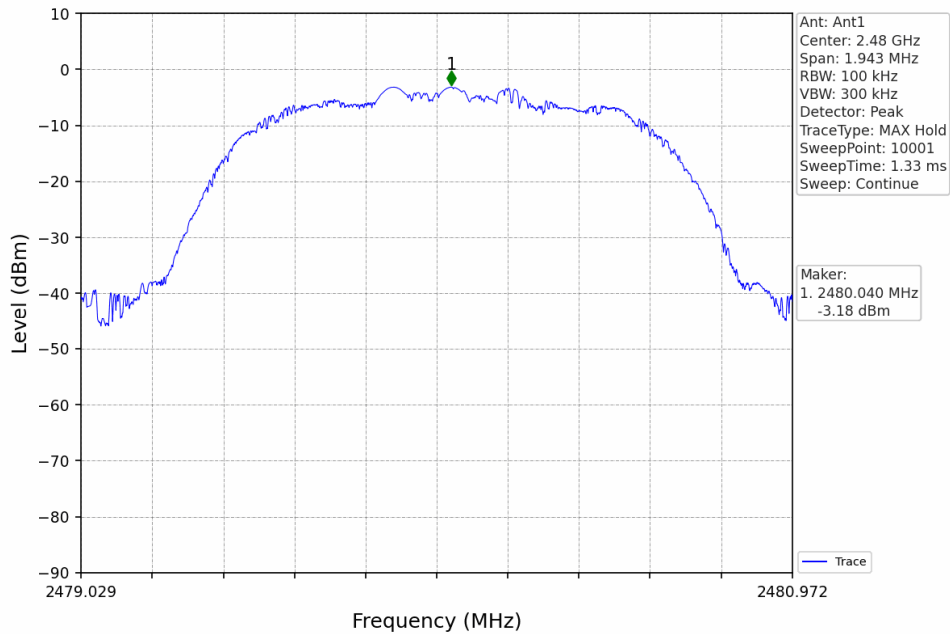


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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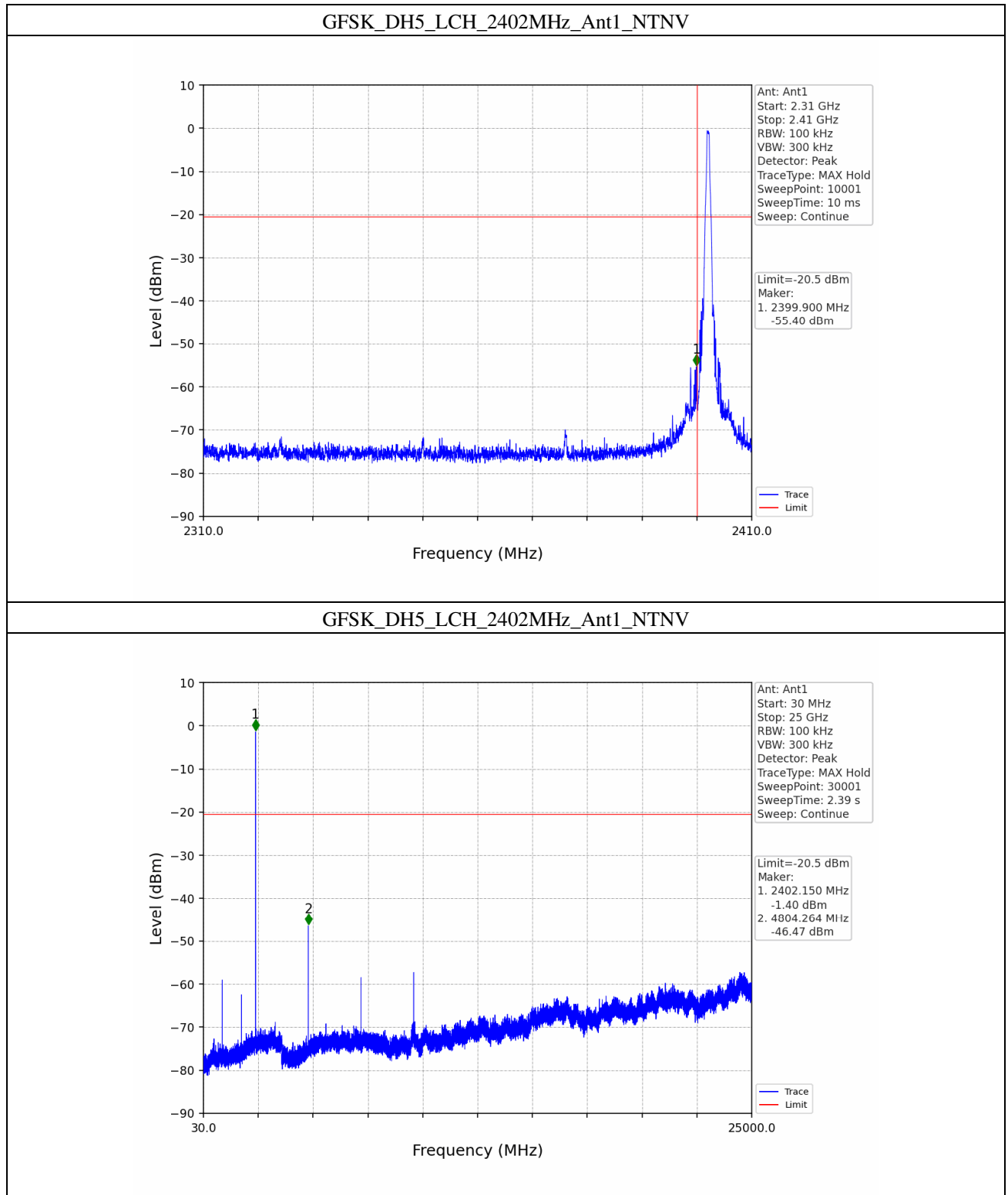
6.2 CSE

6.2.1 Test Result

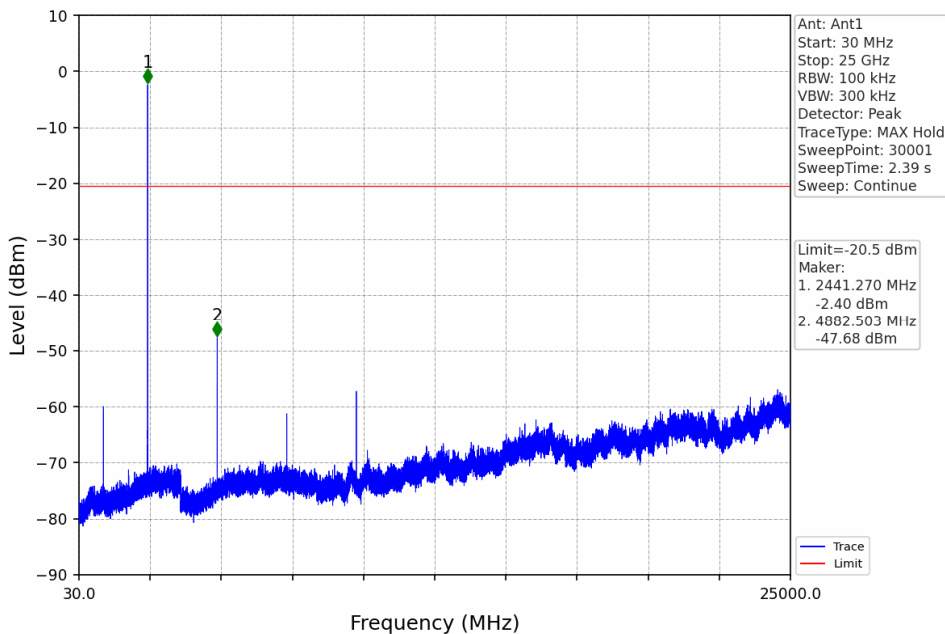
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.50	-20.50	Pass
		2441	DH5	1	-0.50	-20.50	Pass
		2480	DH5	1	-0.50	-20.50	Pass
		HOPP	DH5	1	-0.50	-20.50	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-0.57	-20.57	Pass
		2441	2DH5	1	-0.57	-20.57	Pass
		2480	2DH5	1	-0.57	-20.57	Pass
		HOPP	2DH5	1	-0.57	-20.57	Pass
8DPSK	SISO	2402	3DH5	1	-0.41	-20.41	Pass
		2441	3DH5	1	-0.41	-20.41	Pass
		2480	3DH5	1	-0.41	-20.41	Pass
		HOPP	3DH5	1	-0.41	-20.41	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.

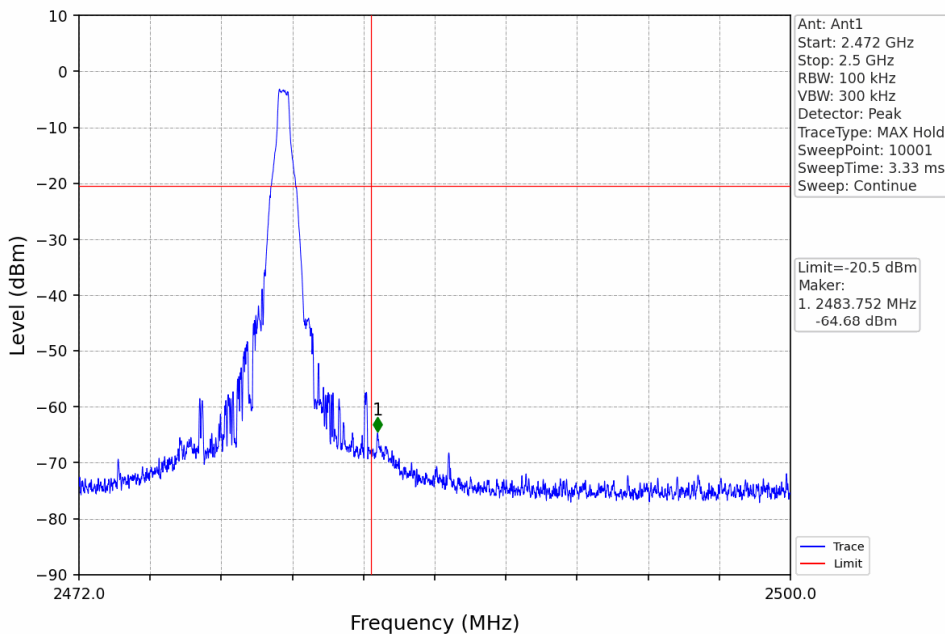
6.2.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



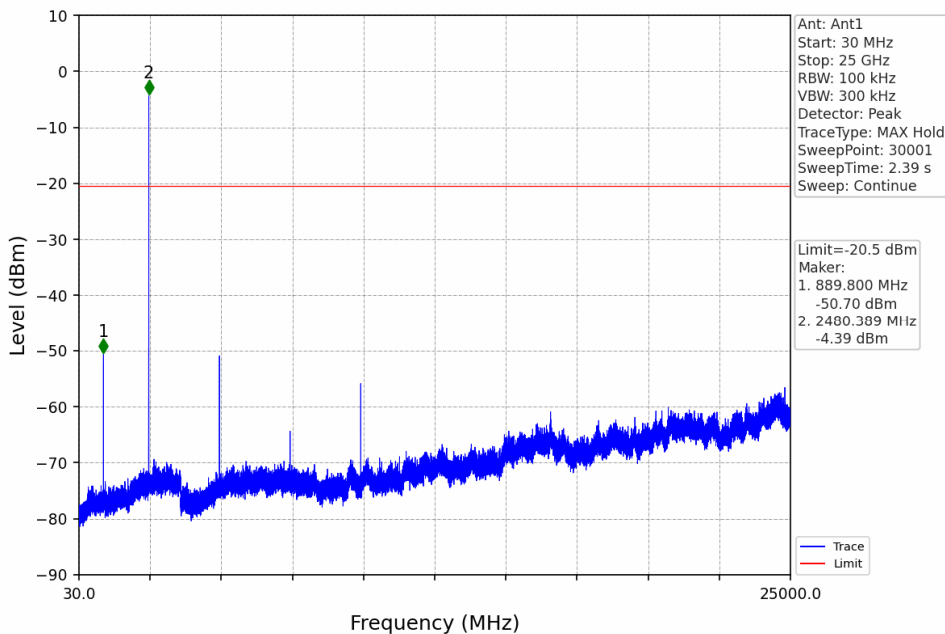
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



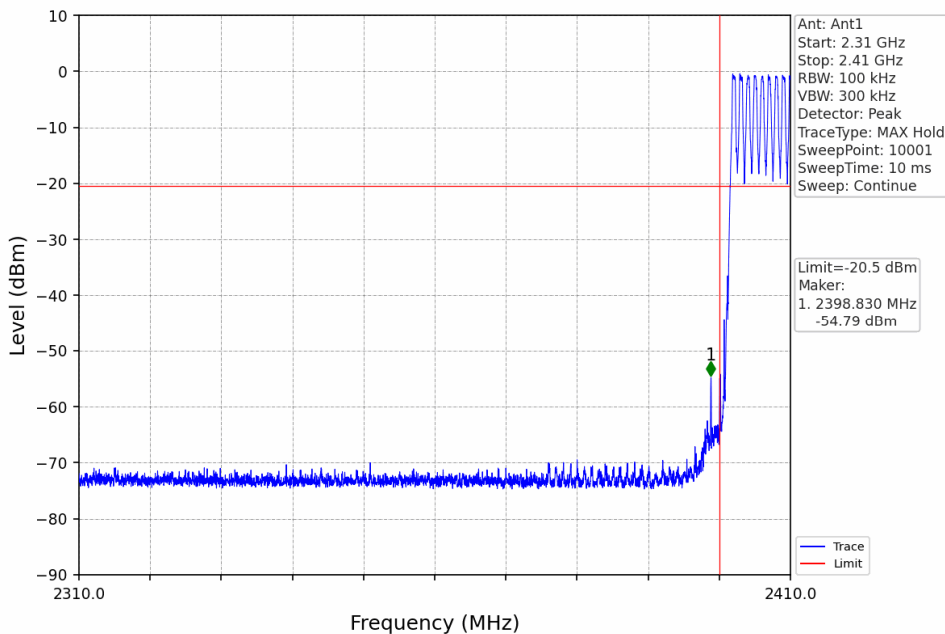
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



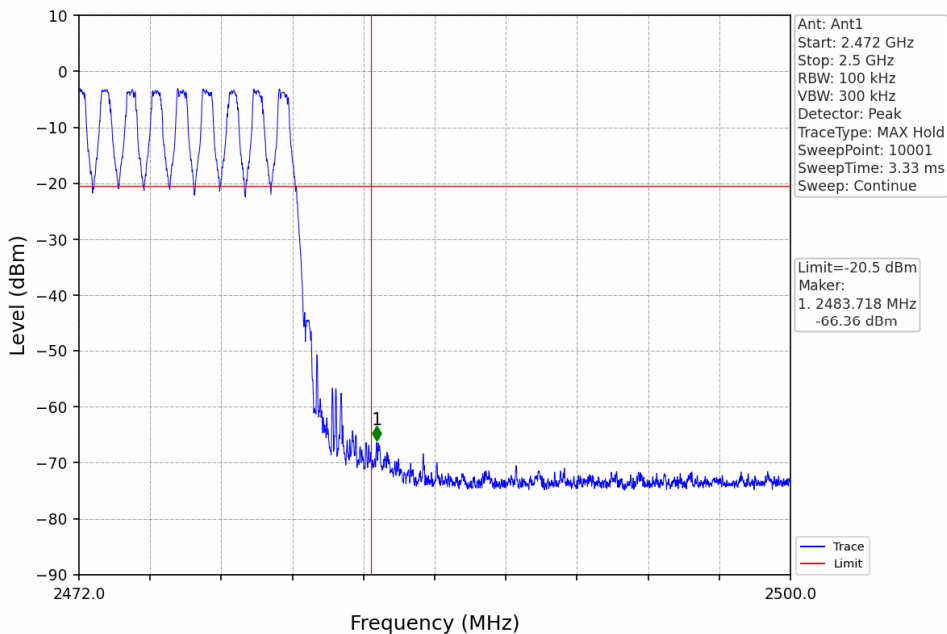
GFSK_DH5_HOPP_Ant1_NTNV



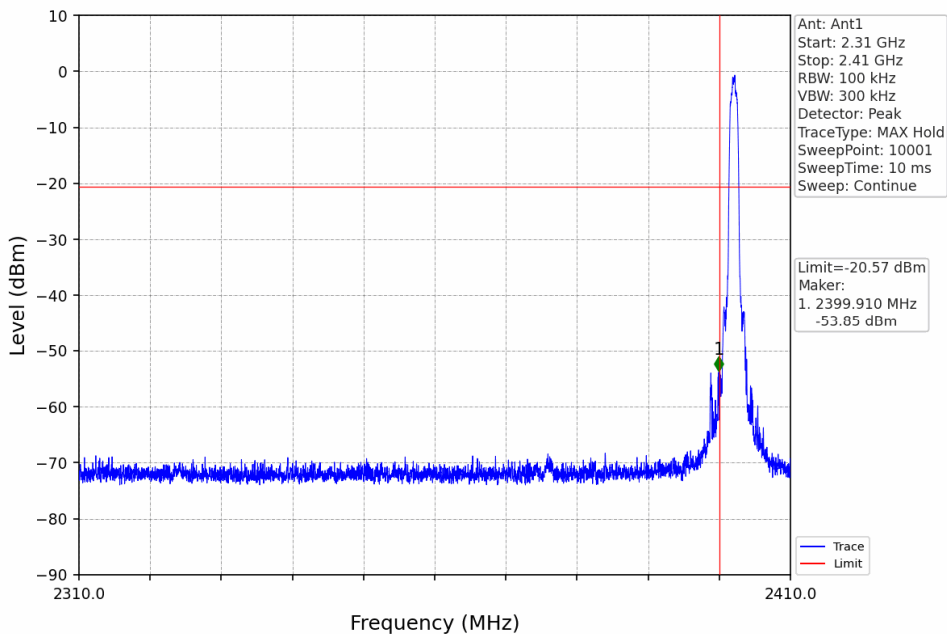
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GFSK_DH5_HOPP_Ant1_NTNV



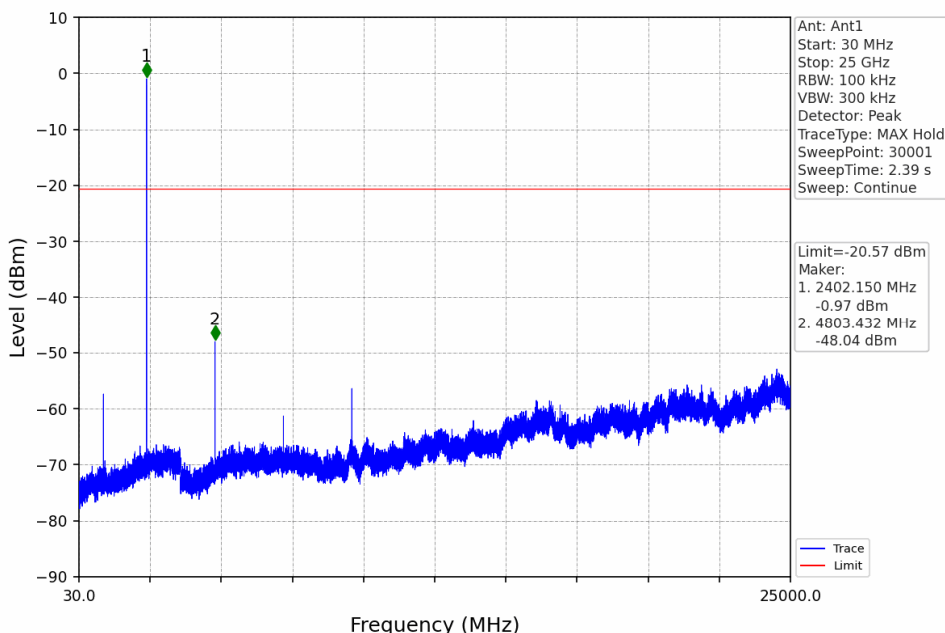
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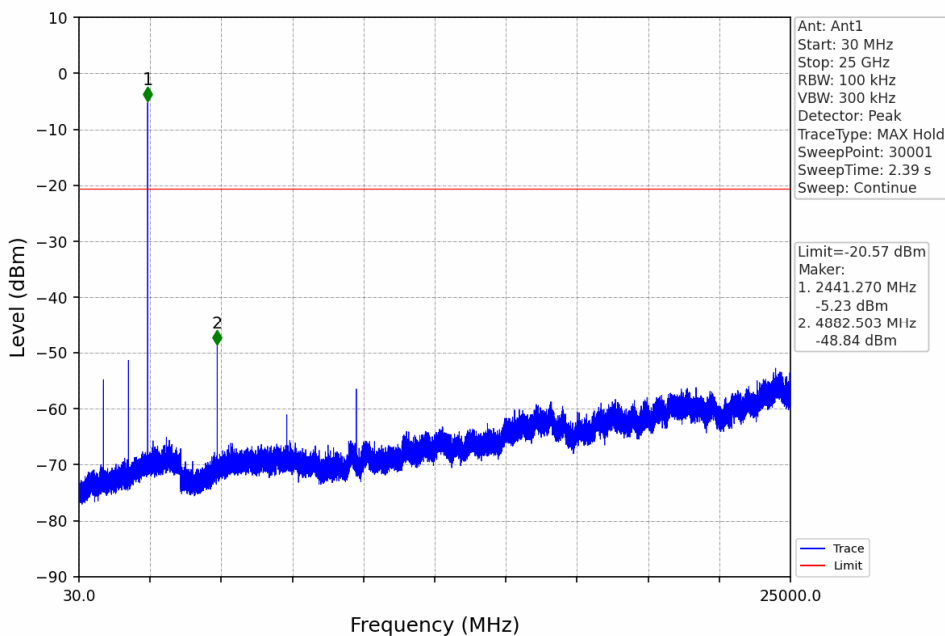
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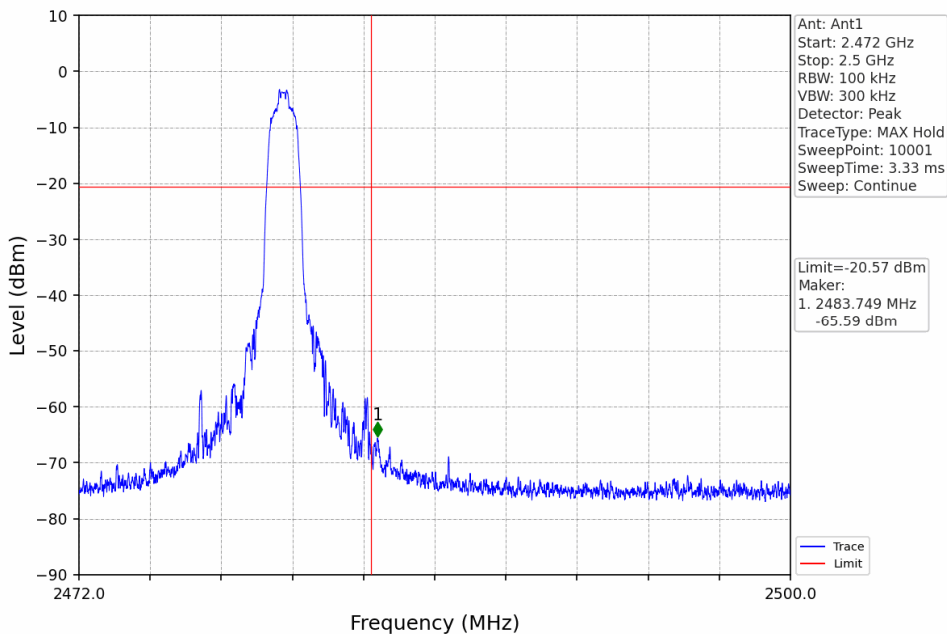
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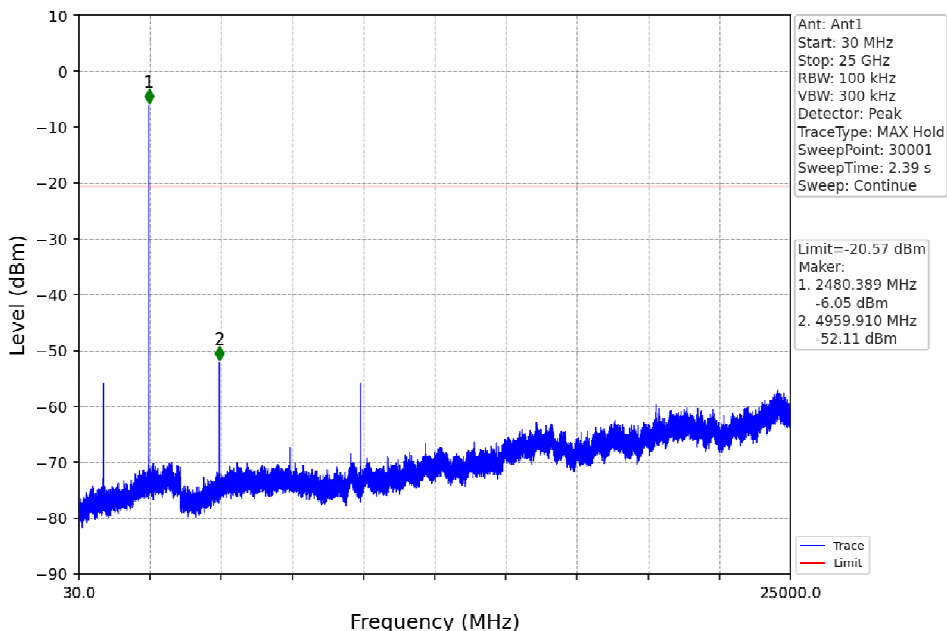
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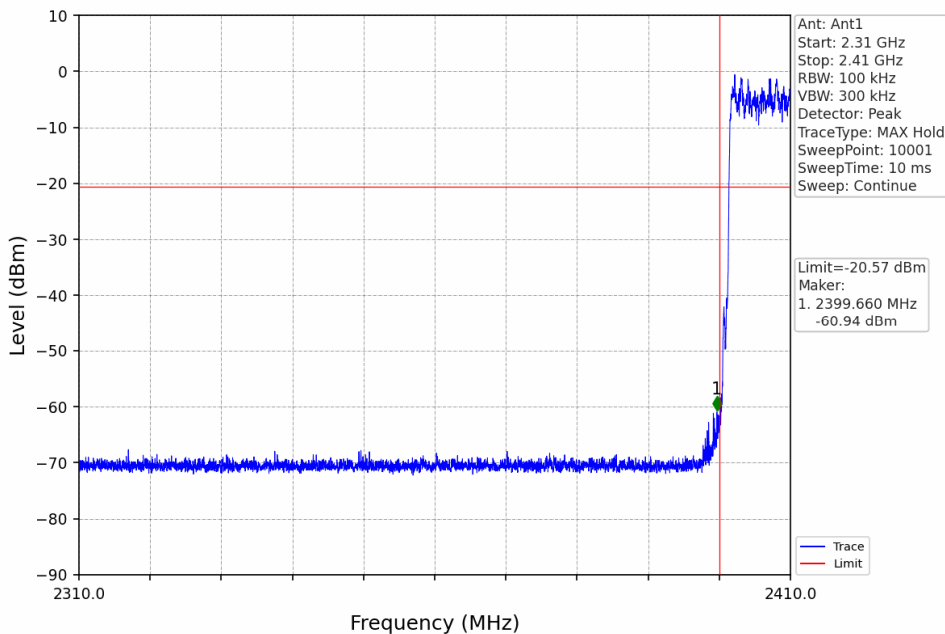
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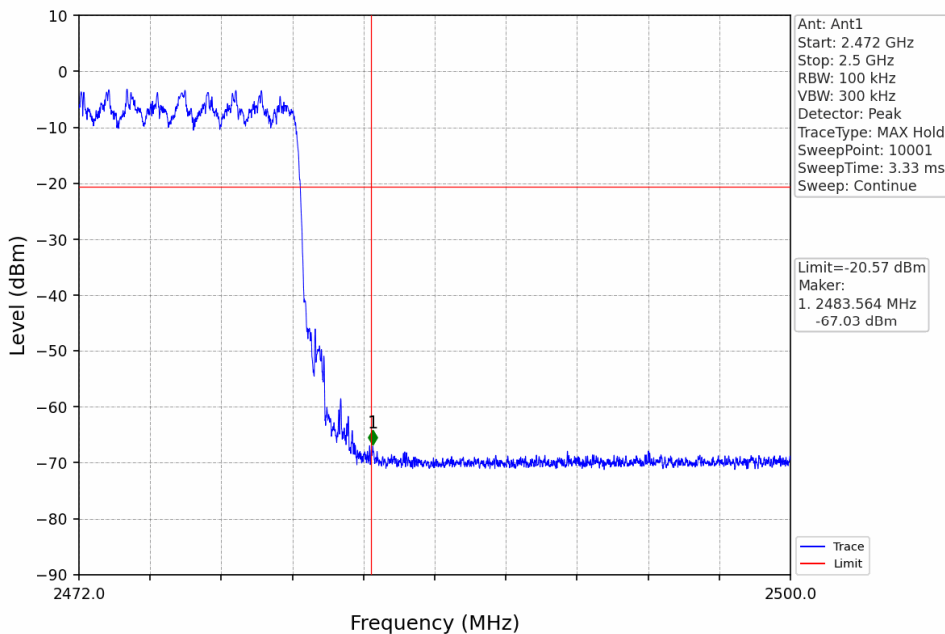
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

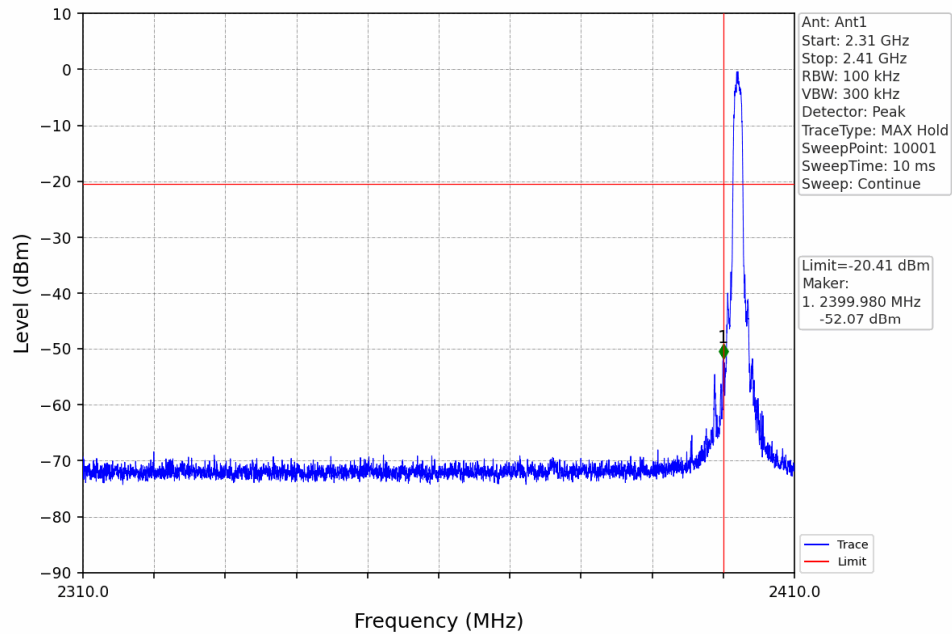


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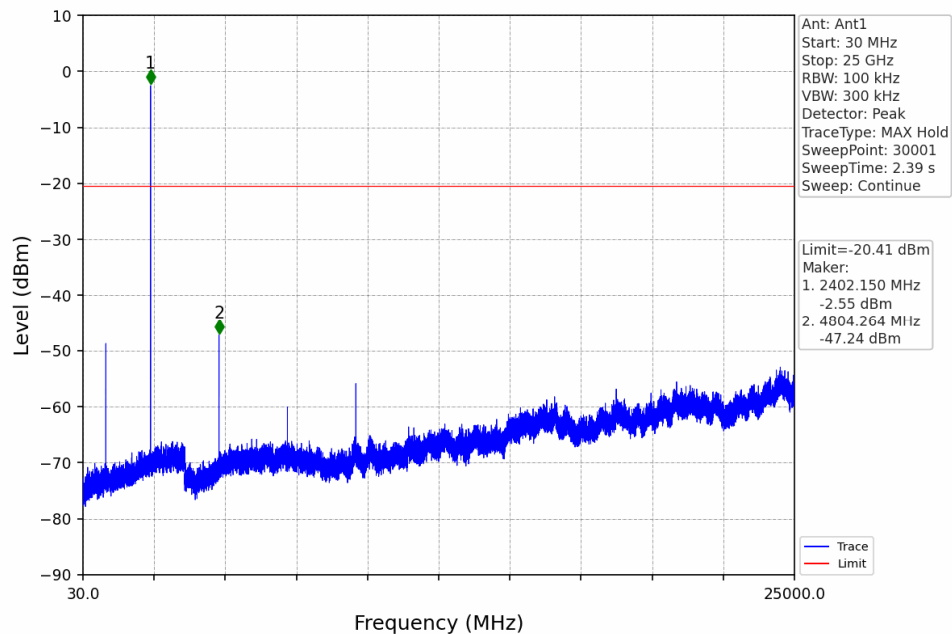


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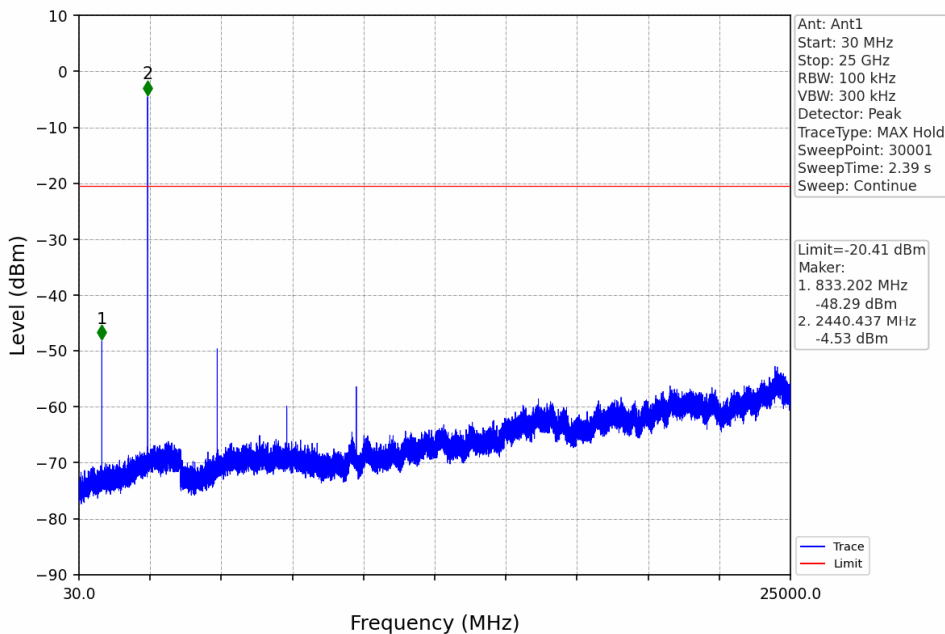
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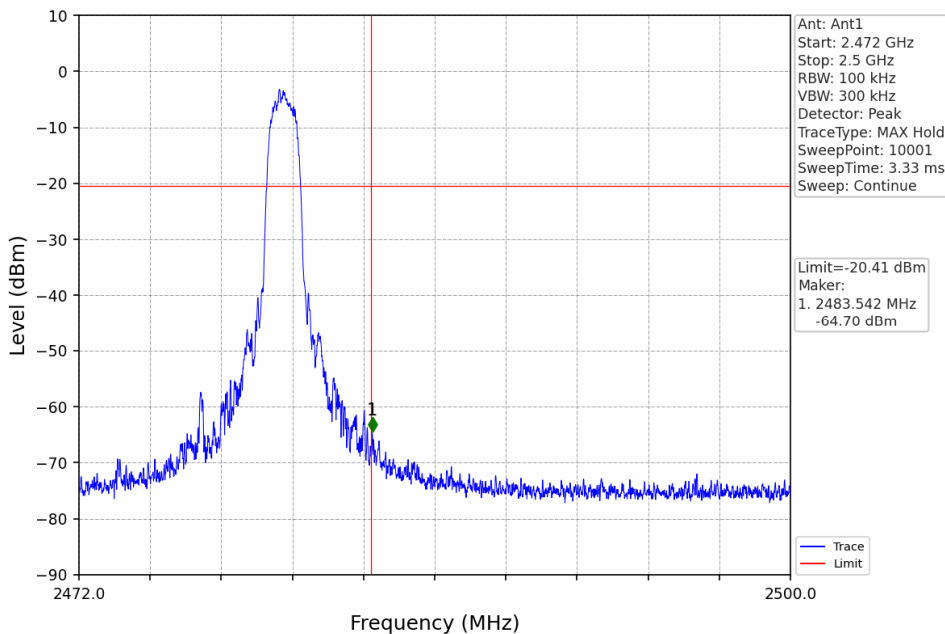
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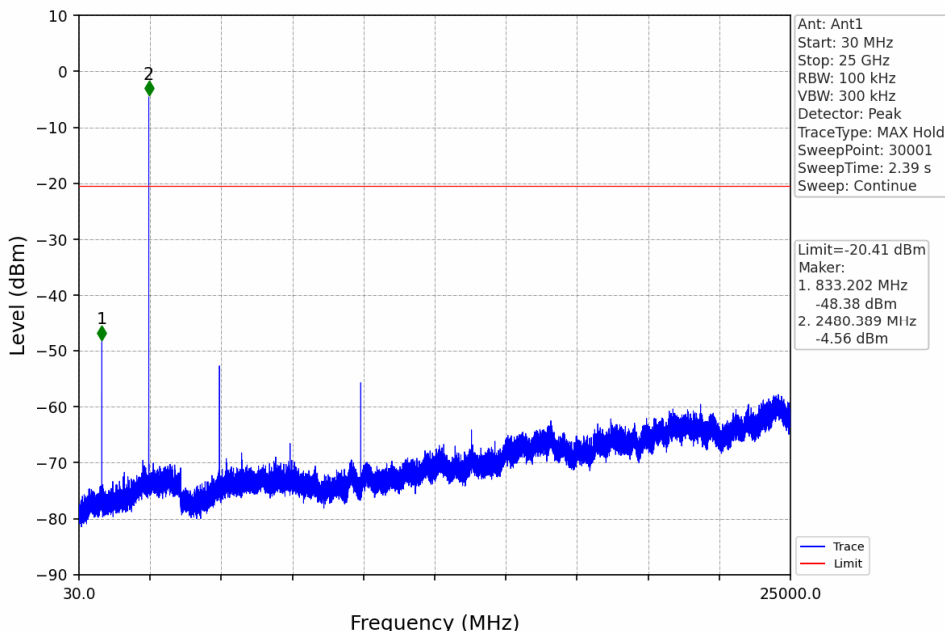


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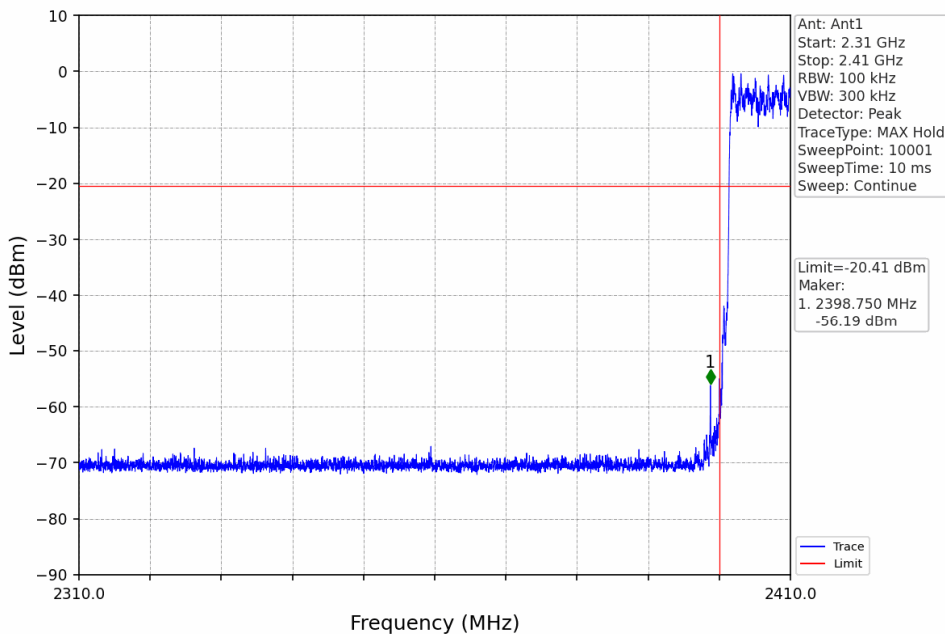


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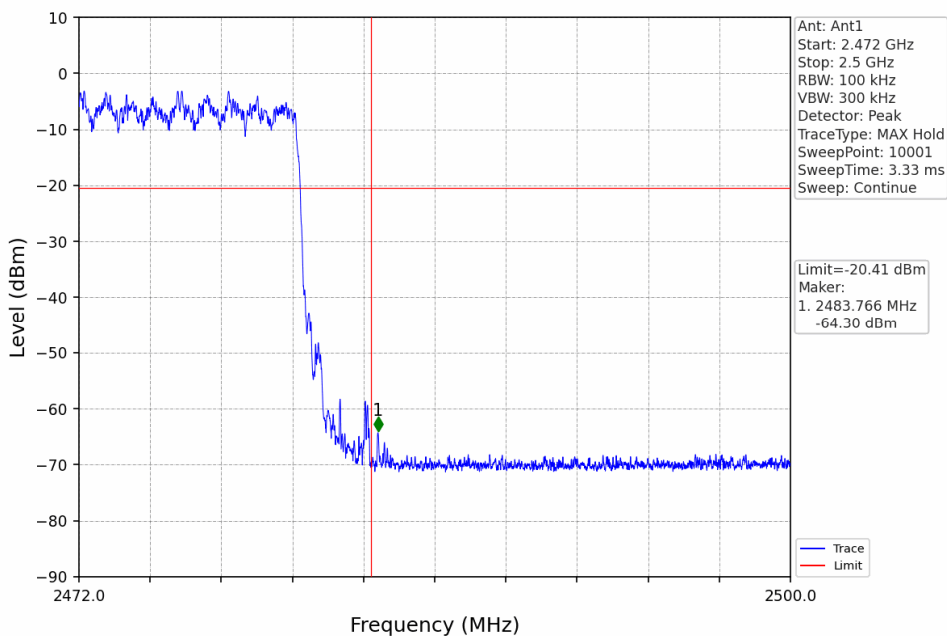
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



- End of the Report -