

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090902

Page: 105 of 174

7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	12.69	-7.31	Pass
		2441	DH5	1	12.69	-7.31	Pass
		2480	DH5	1	12.69	-7.31	Pass
		HOPP	DH5	1	12.69	-7.31	Pass
					12.69	-7.31	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	9.56	-10.44	Pass
		2441	2DH5	1	9.56	-10.44	Pass
		2480	2DH5	1	9.56	-10.44	Pass
		HOPP	2DH5	1	9.56	-10.44	Pass
					9.56	-10.44	Pass
8DPSK	SISO	2402	3DH5	1	9.55	-10.45	Pass
		2441	3DH5	1	9.55	-10.45	Pass
		2480	3DH5	1	9.55	-10.45	Pass
		HOPP	3DH5	1	9.55	-10.45	Pass
					9.55	-10.45	Pass



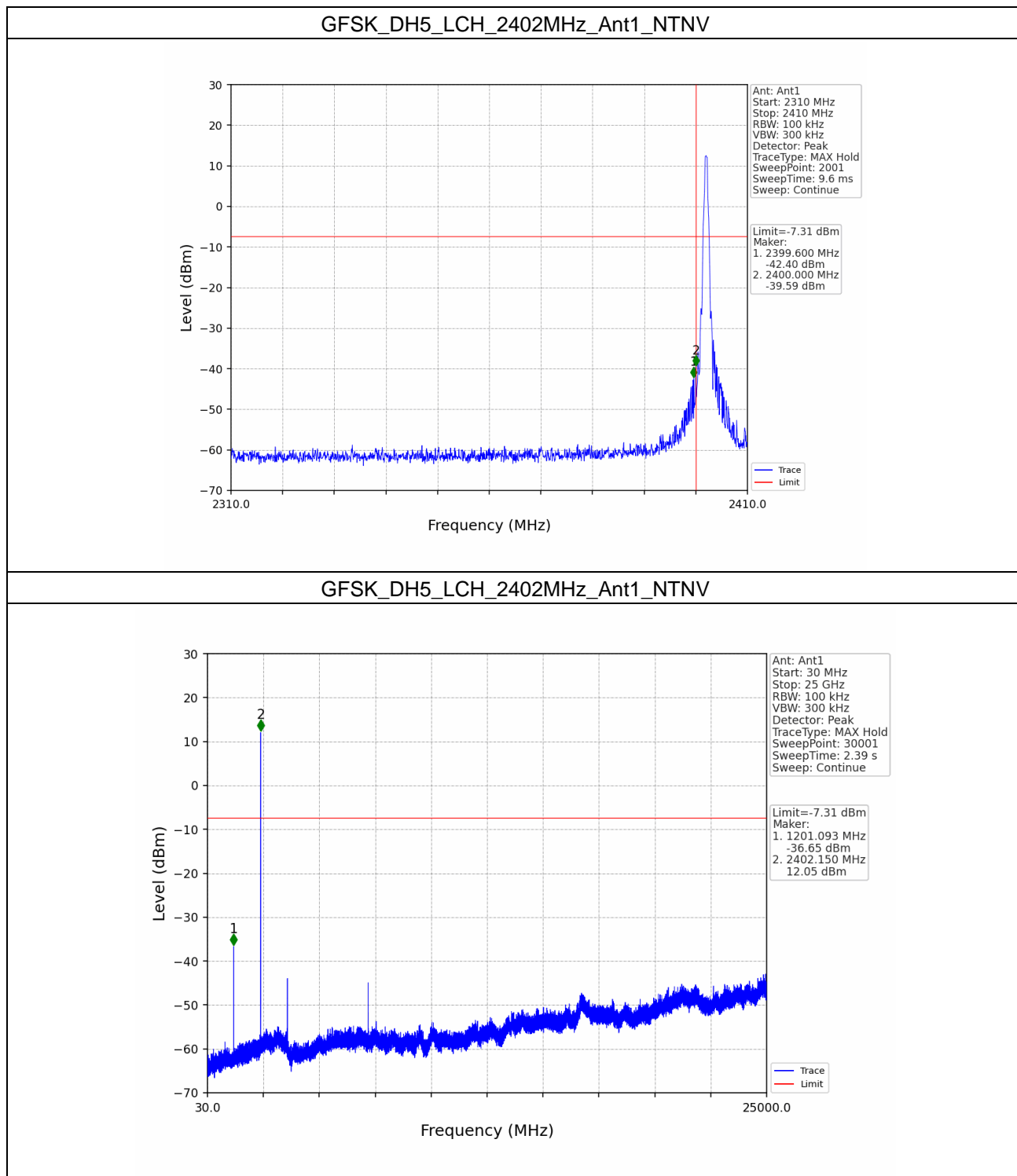
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7.2.2 Test Graph



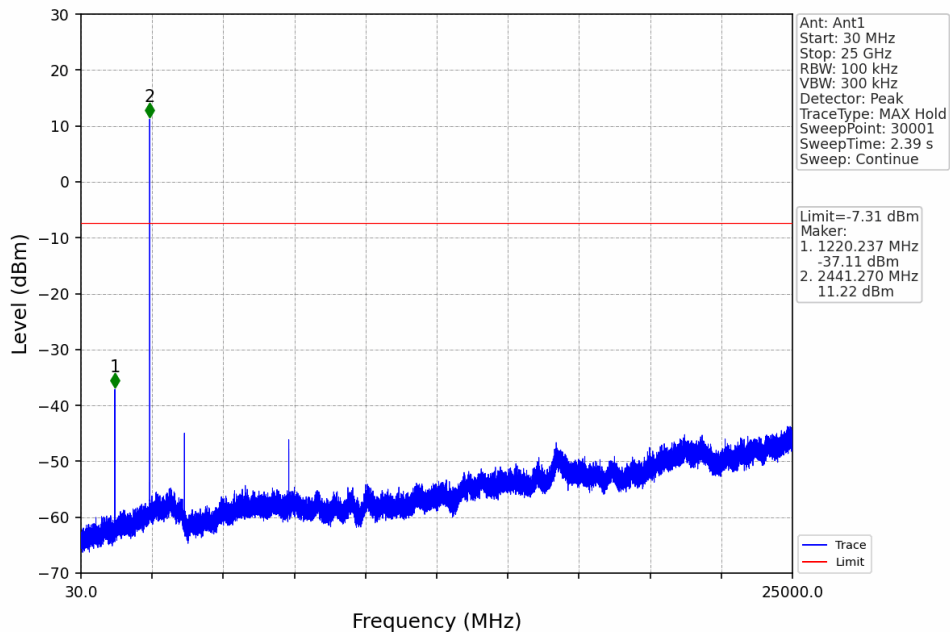
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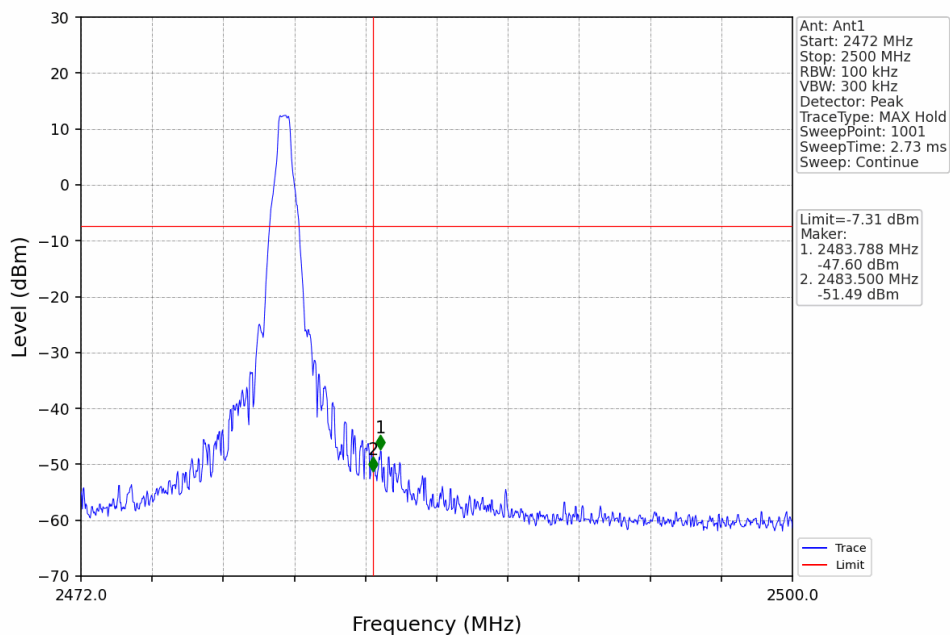
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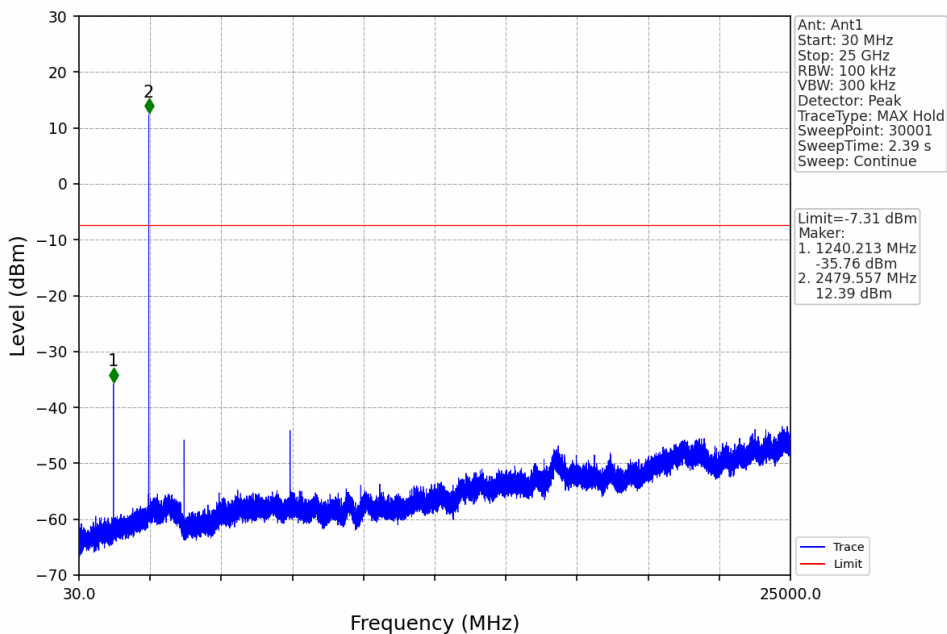
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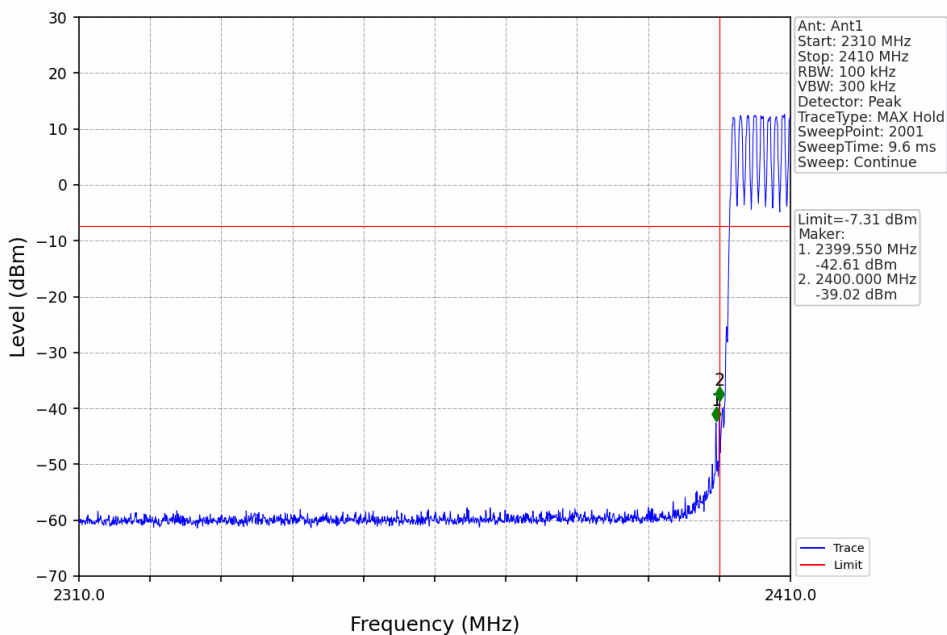
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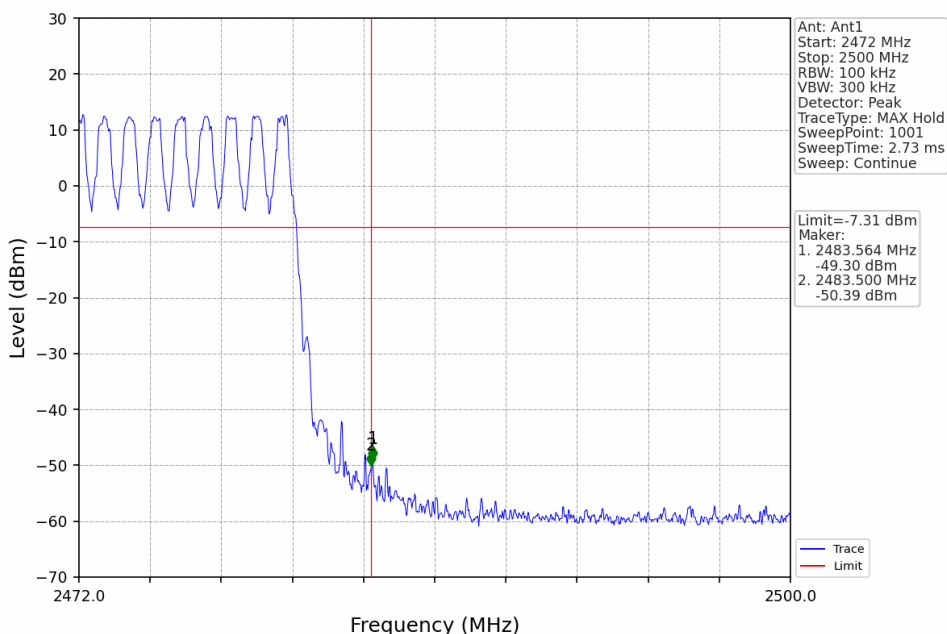
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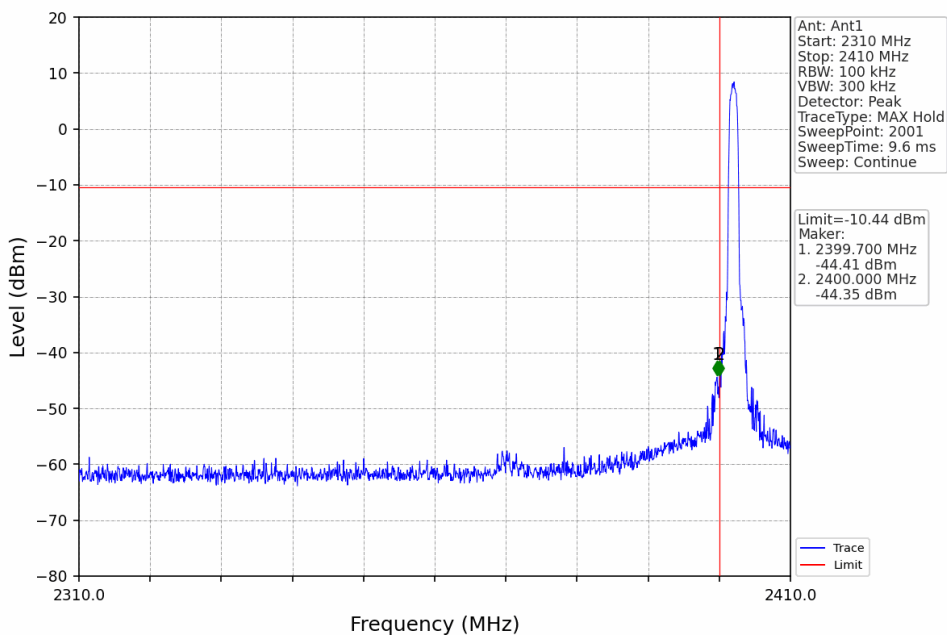
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



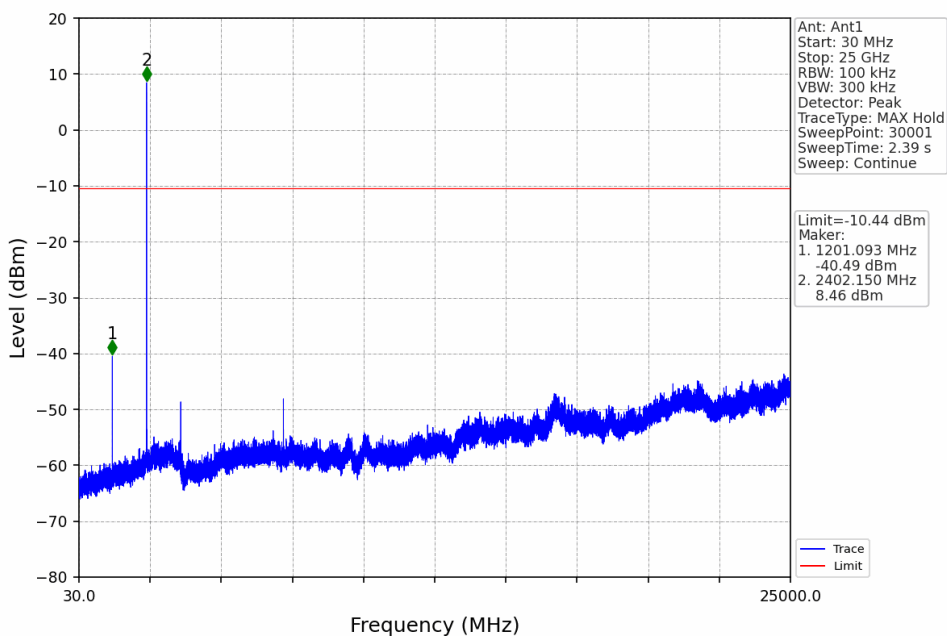
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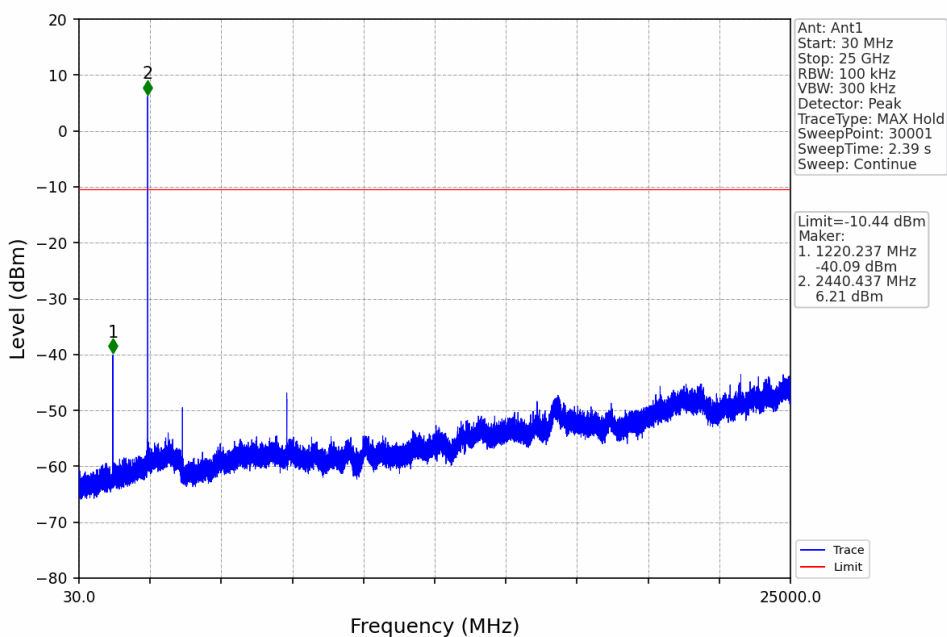
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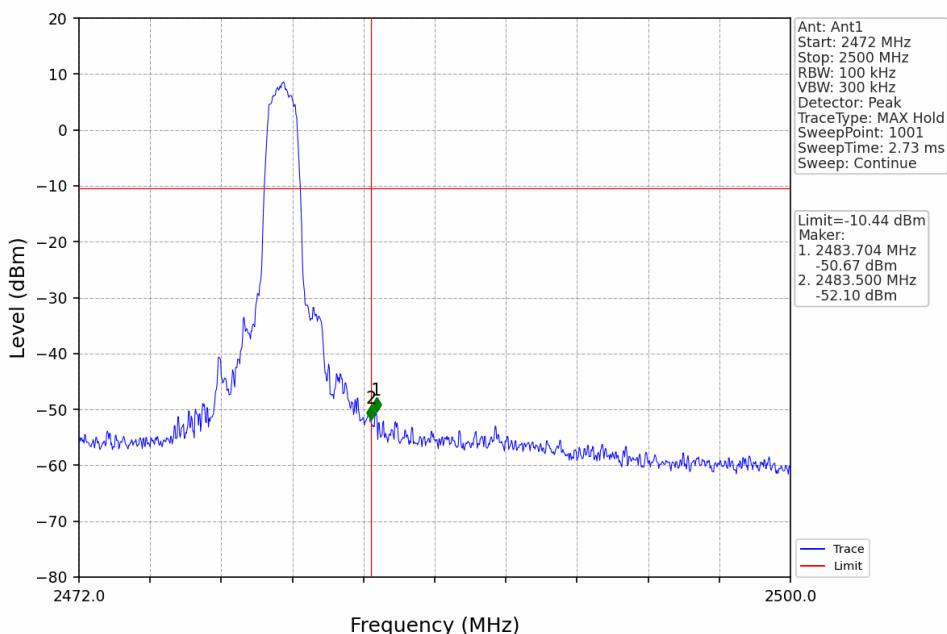
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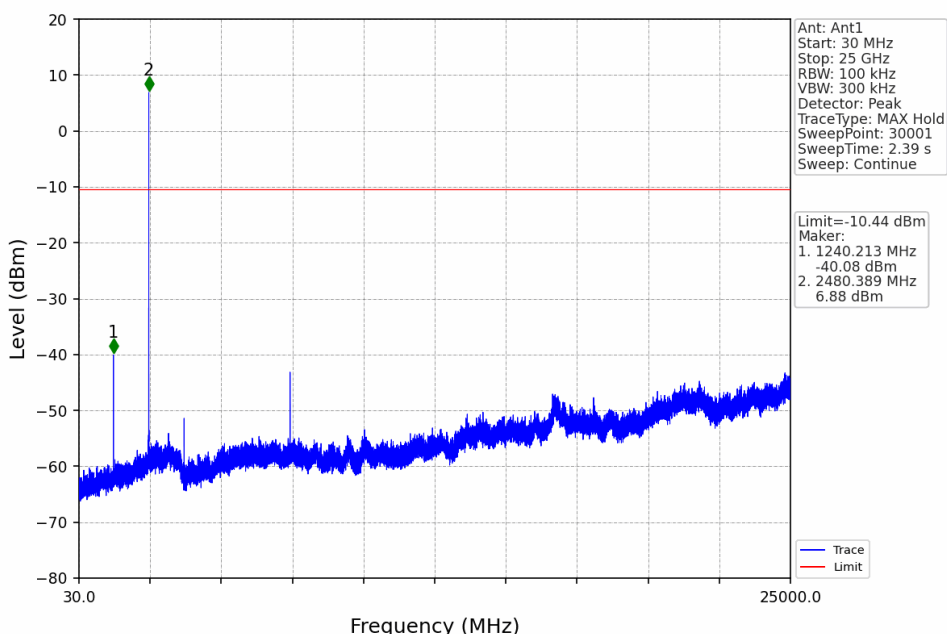
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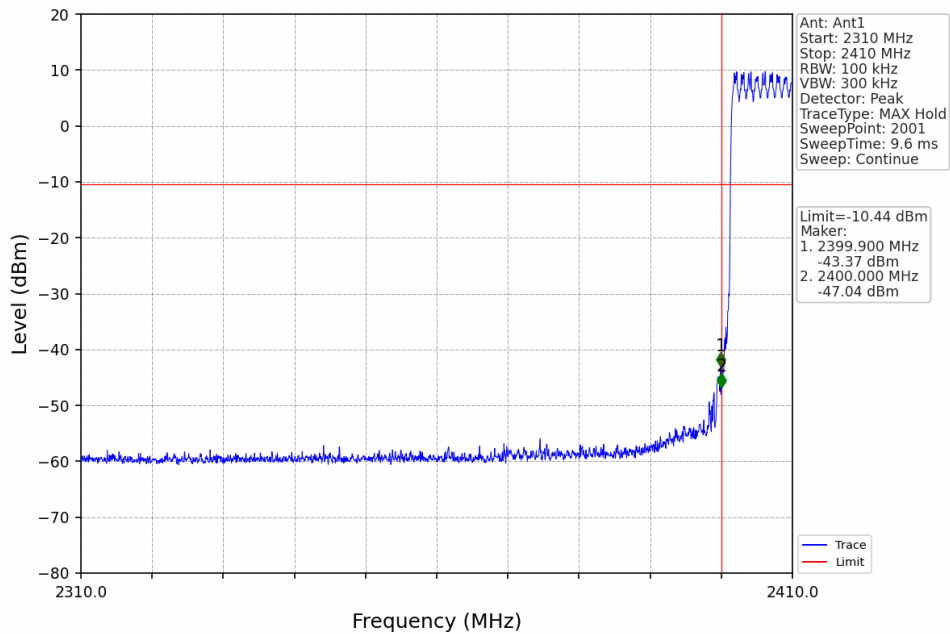
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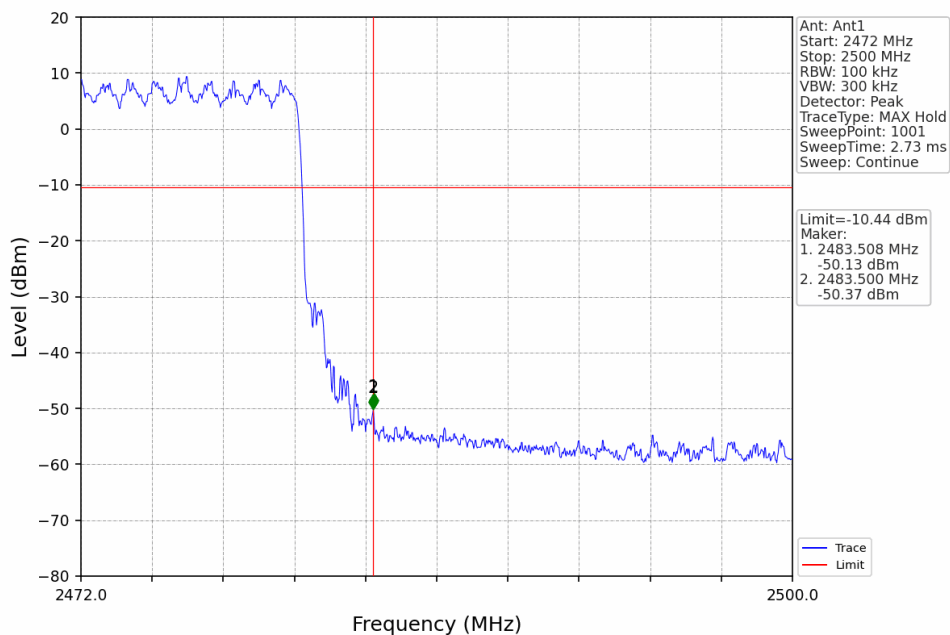
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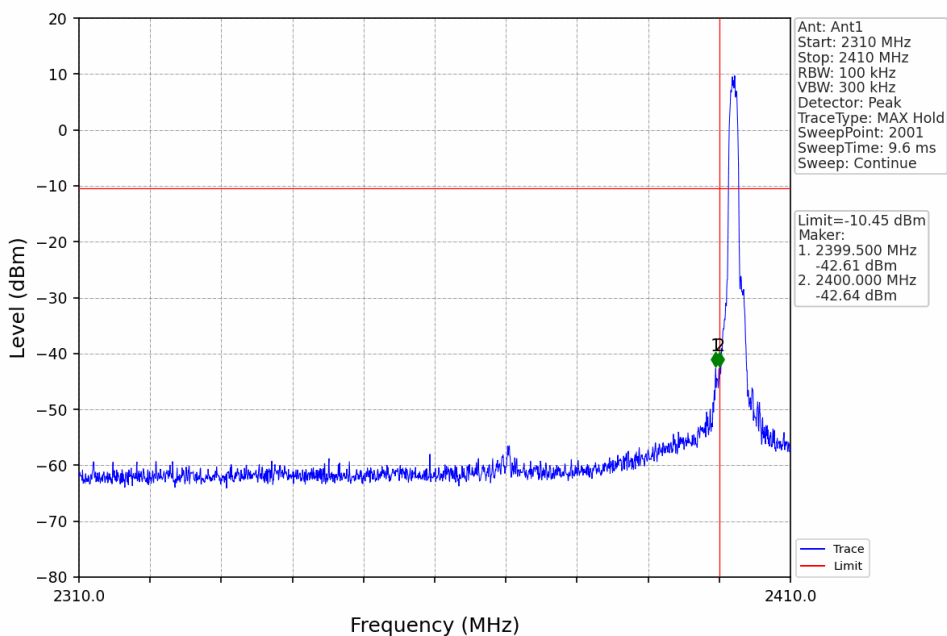
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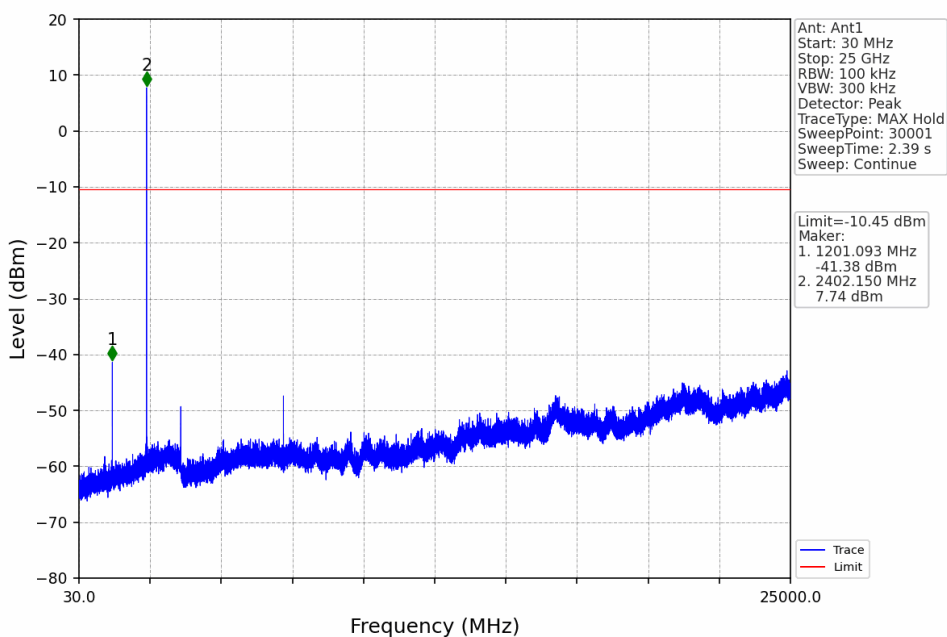
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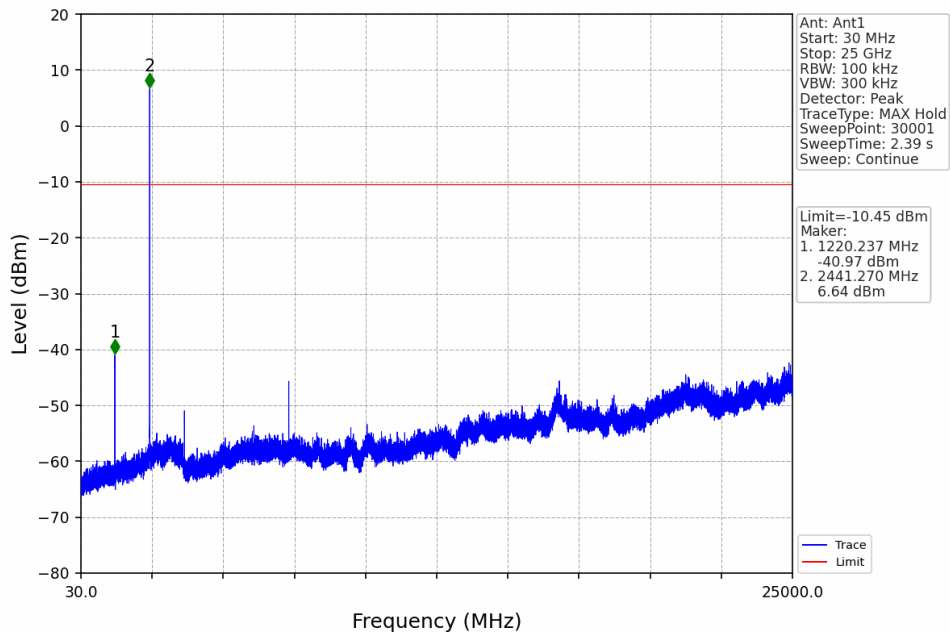
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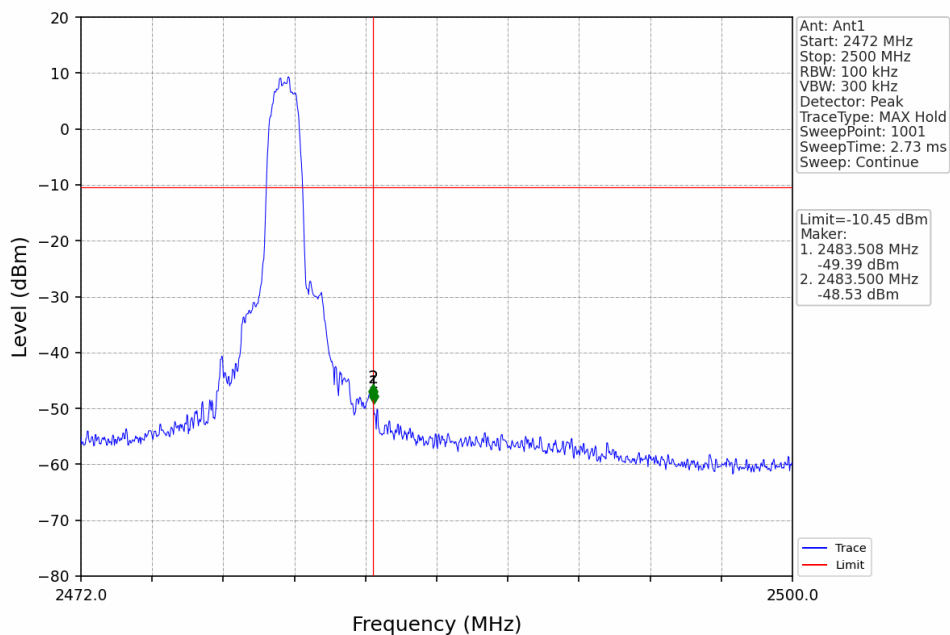
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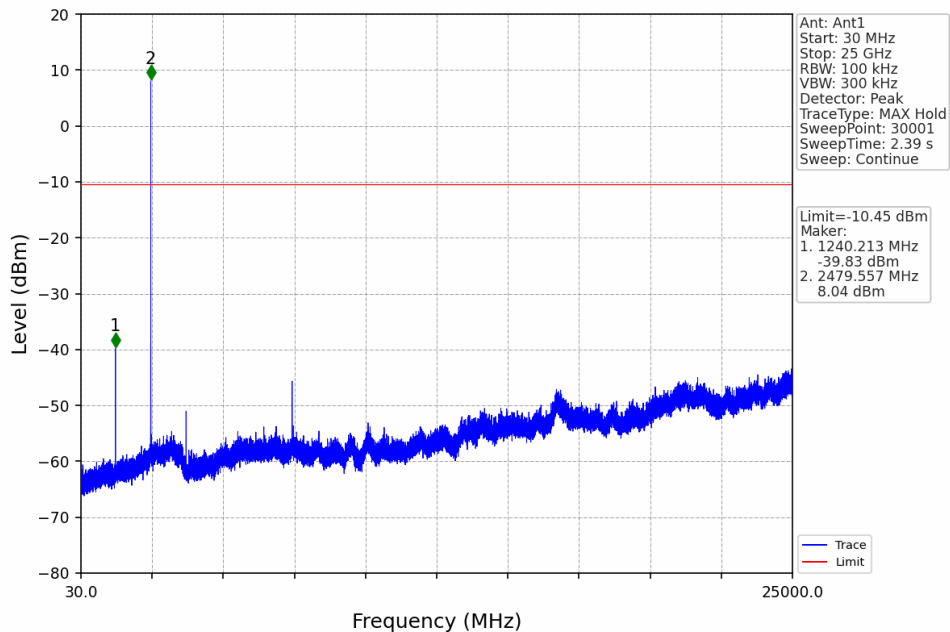
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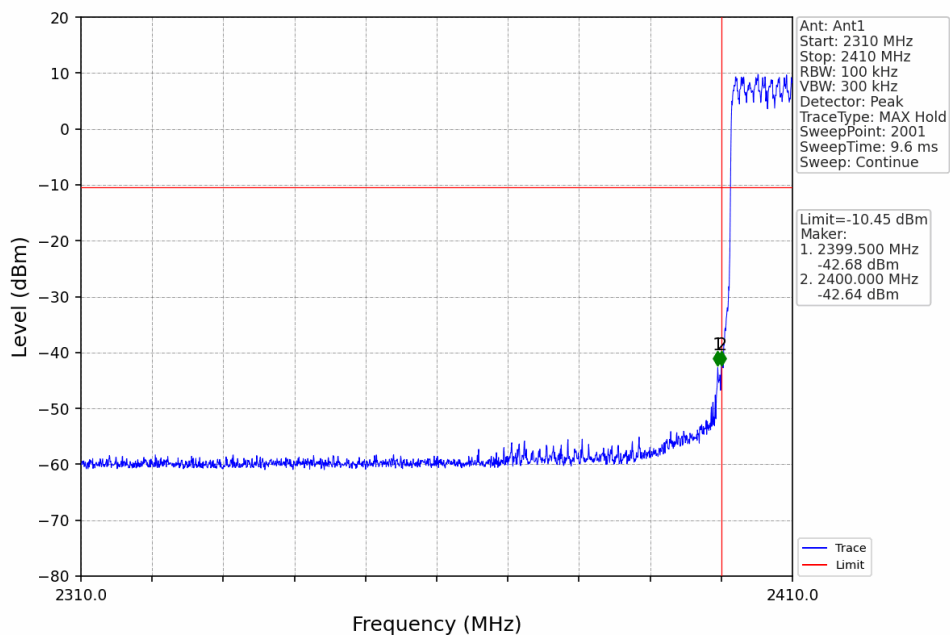
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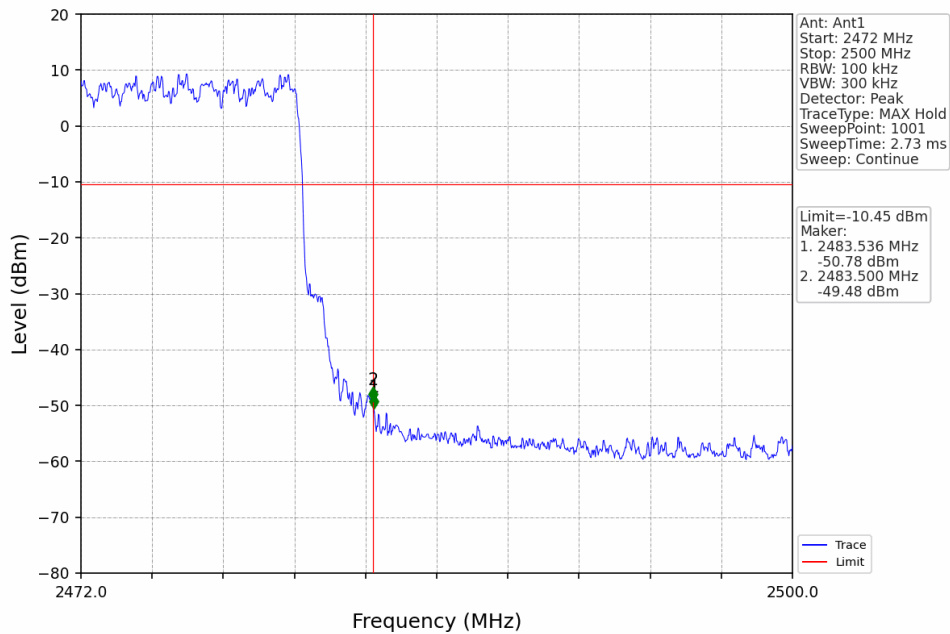
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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For left earbud:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.902	3.749	77.41	1.11	0.01
		2441	DH5	2.903	3.751	77.39	1.11	0.03
		2480	DH5	2.903	3.750	77.41	1.11	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.902	3.750	77.39	1.11	0.01
		2441	2DH5	2.902	3.749	77.41	1.11	0.01
		2480	2DH5	2.901	3.749	77.38	1.11	0.01
8DPSK	SISO	2402	3DH5	2.905	3.751	77.45	1.11	0.03
		2441	3DH5	2.904	3.750	77.44	1.11	0.03
		2480	3DH5	2.904	3.749	77.46	1.11	0.01



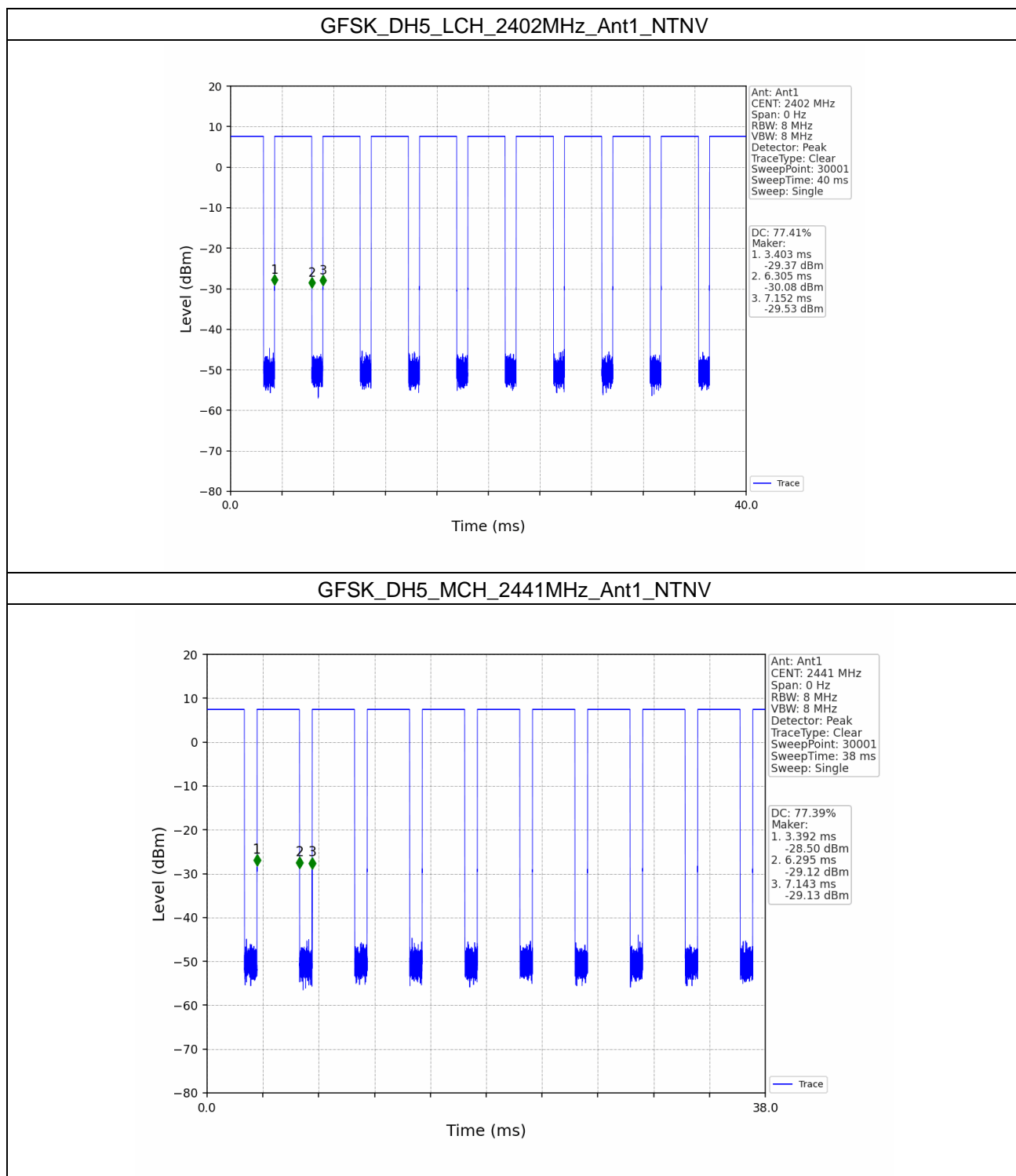
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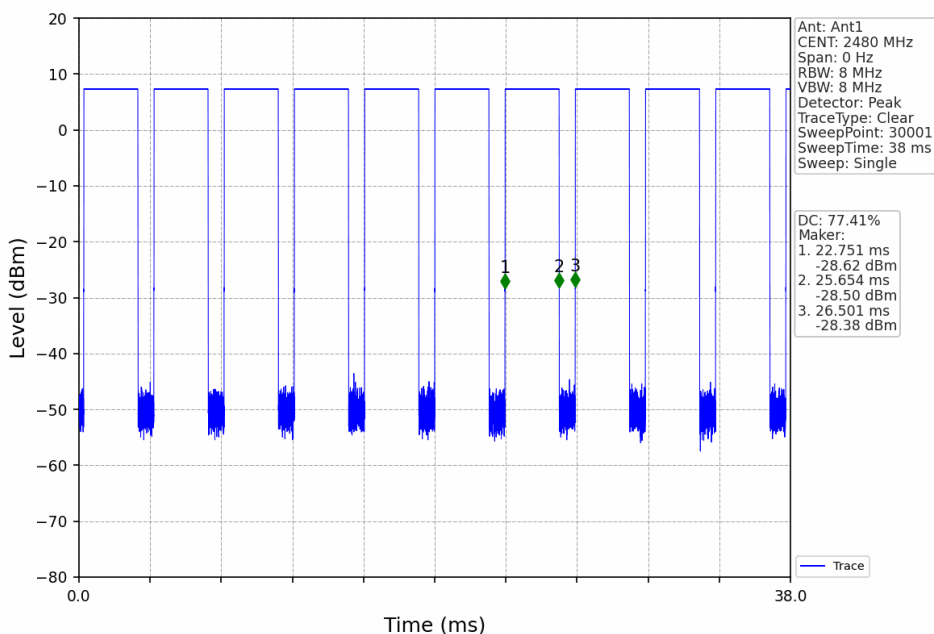
1.1.2 Test Graph



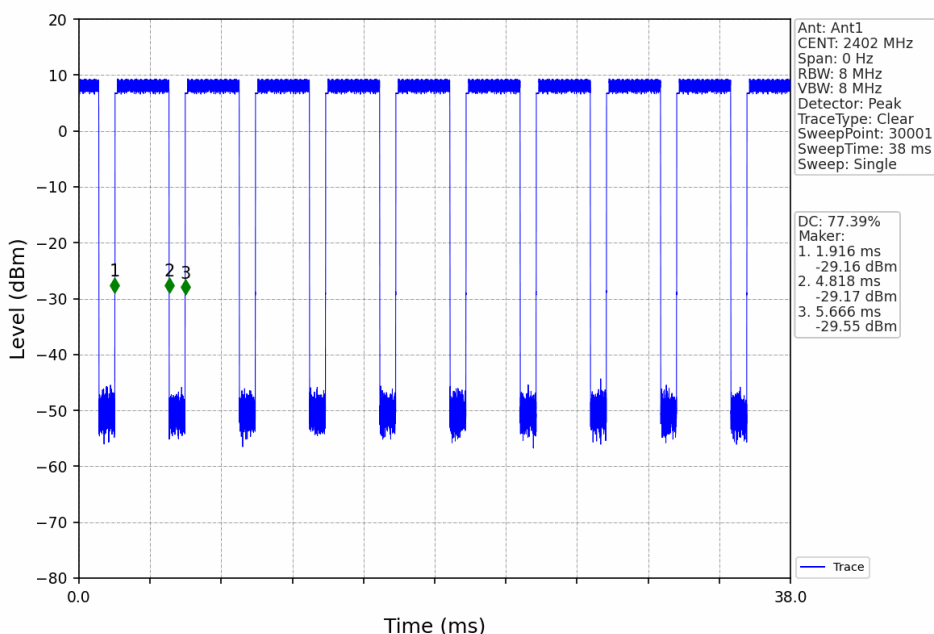
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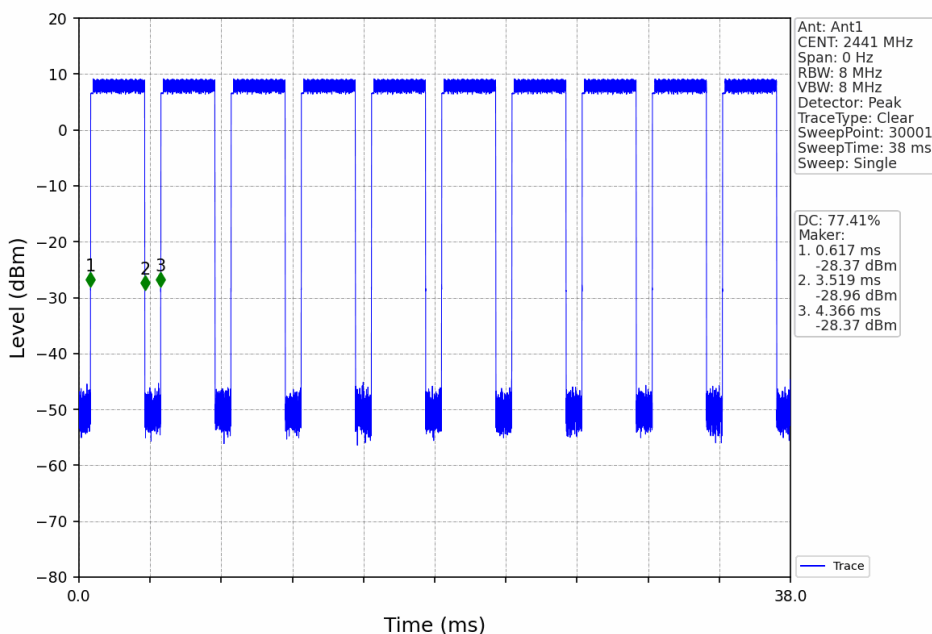
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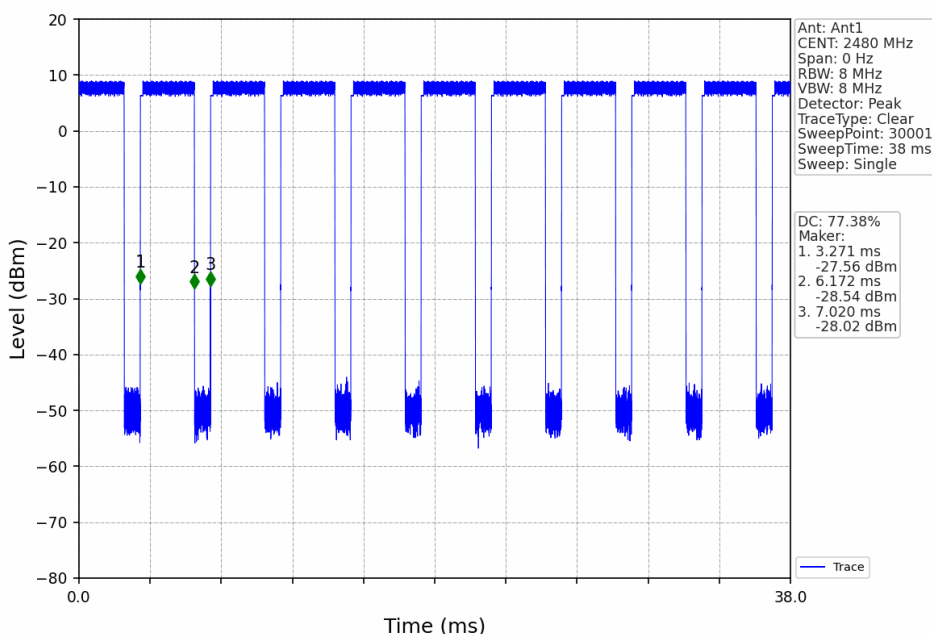
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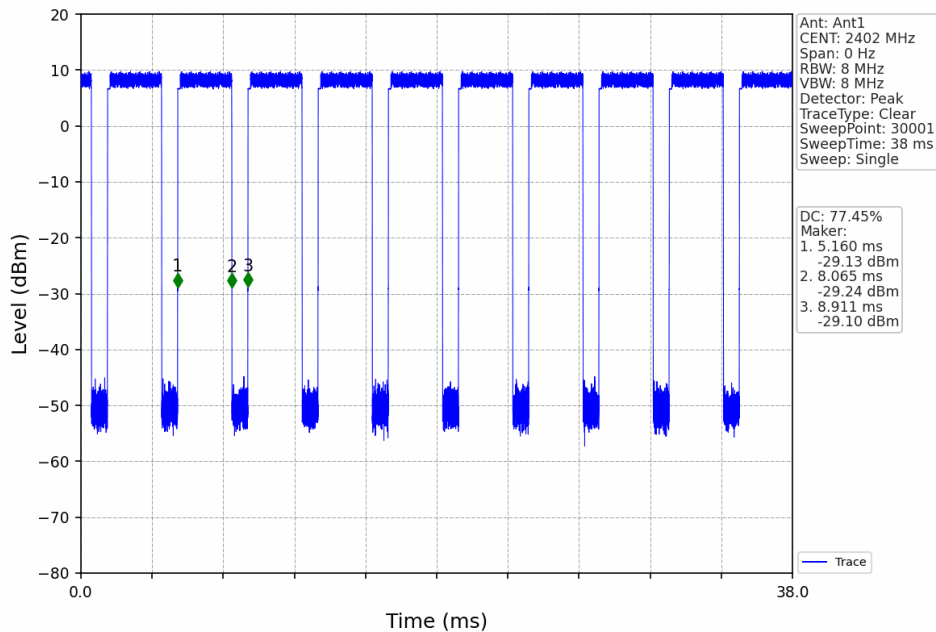
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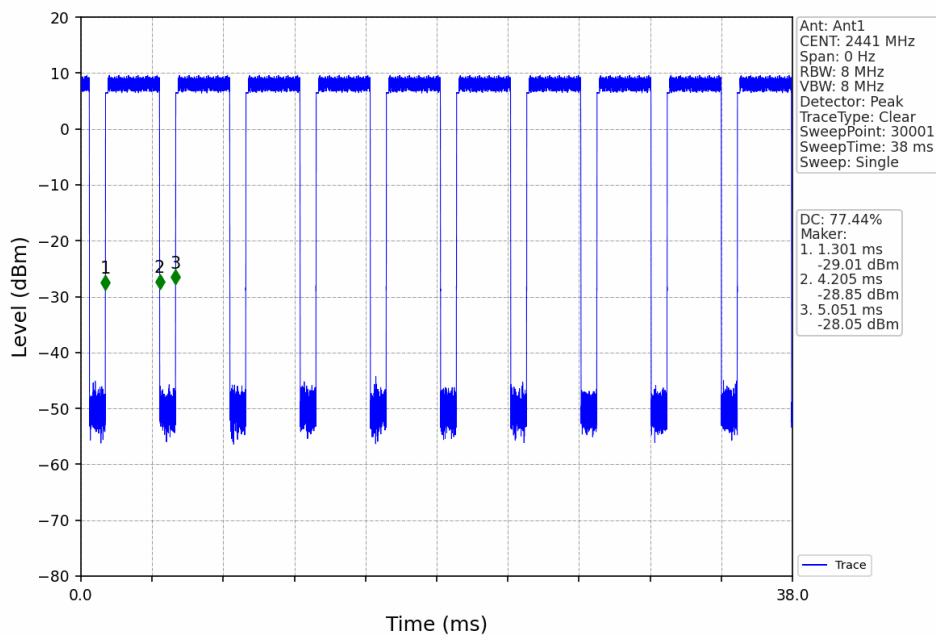
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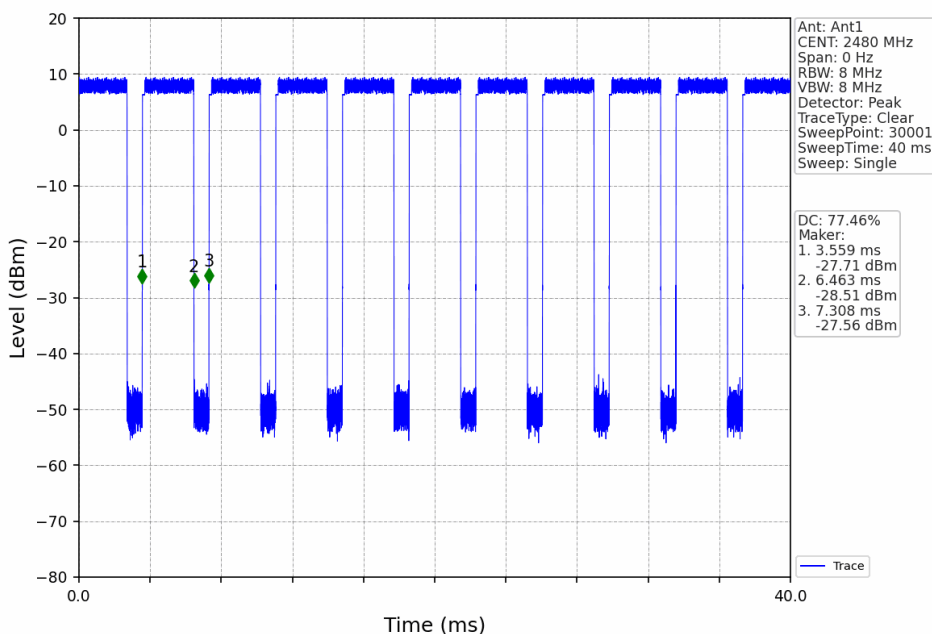
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.875	/	Pass
		2441	DH5	1	0.874	/	Pass
		2480	DH5	1	0.868	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.189	/	Pass
		2441	2DH5	1	1.187	/	Pass
		2480	2DH5	1	1.188	/	Pass
8DPSK	SISO	2402	3DH5	1	1.190	/	Pass
		2441	3DH5	1	1.193	/	Pass
		2480	3DH5	1	1.192	/	Pass



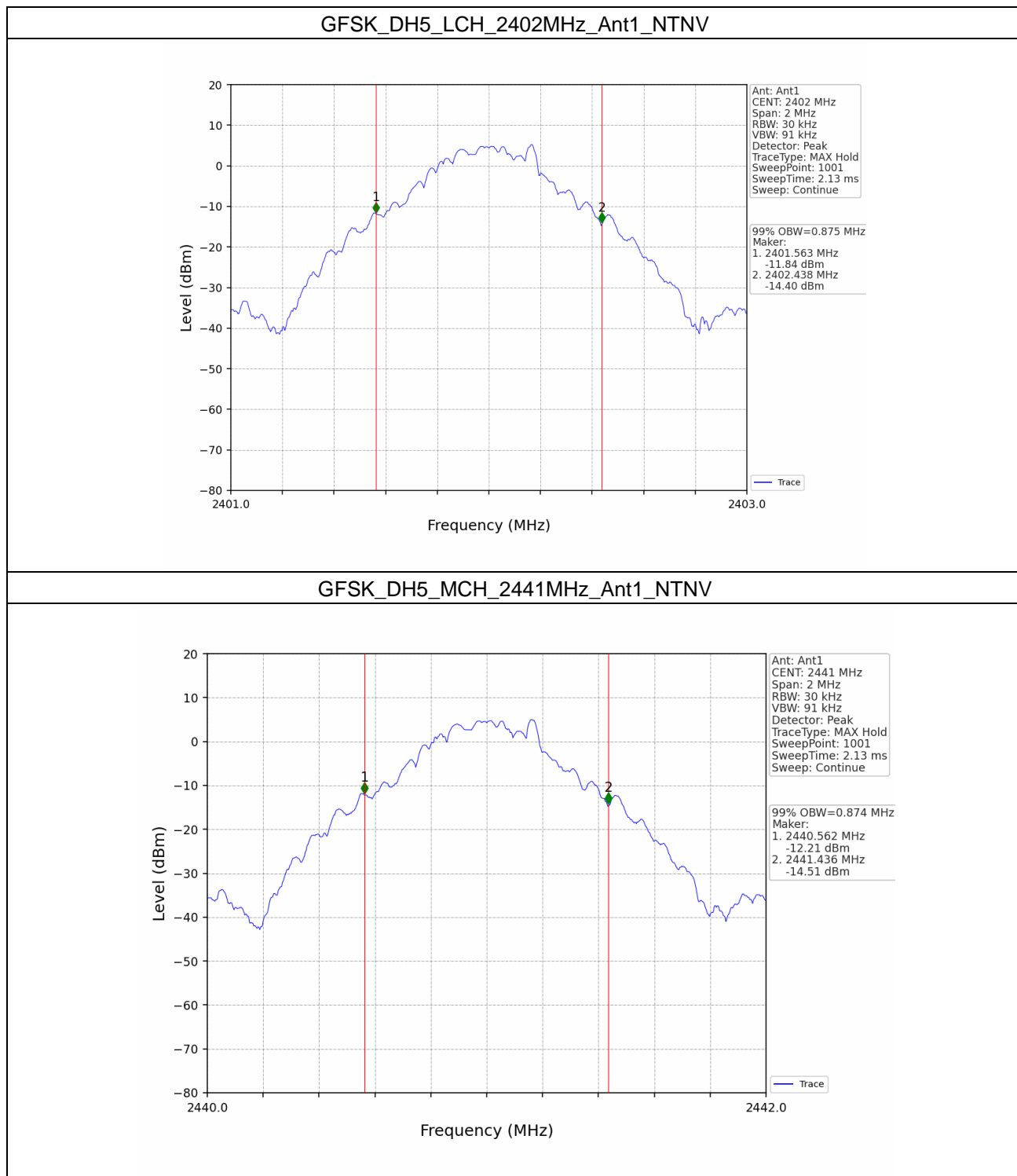
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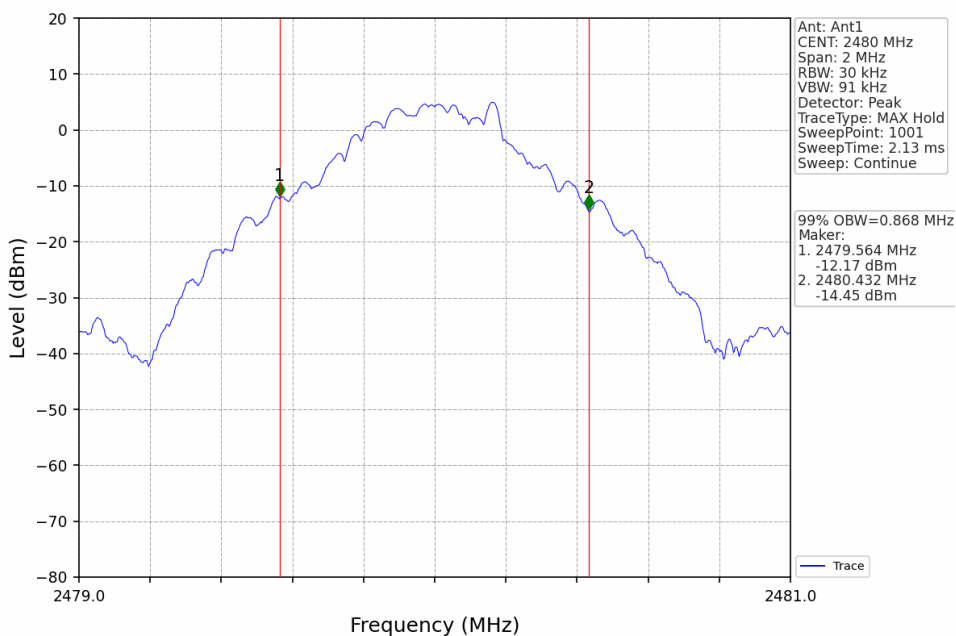
2.1.2 Test Graph



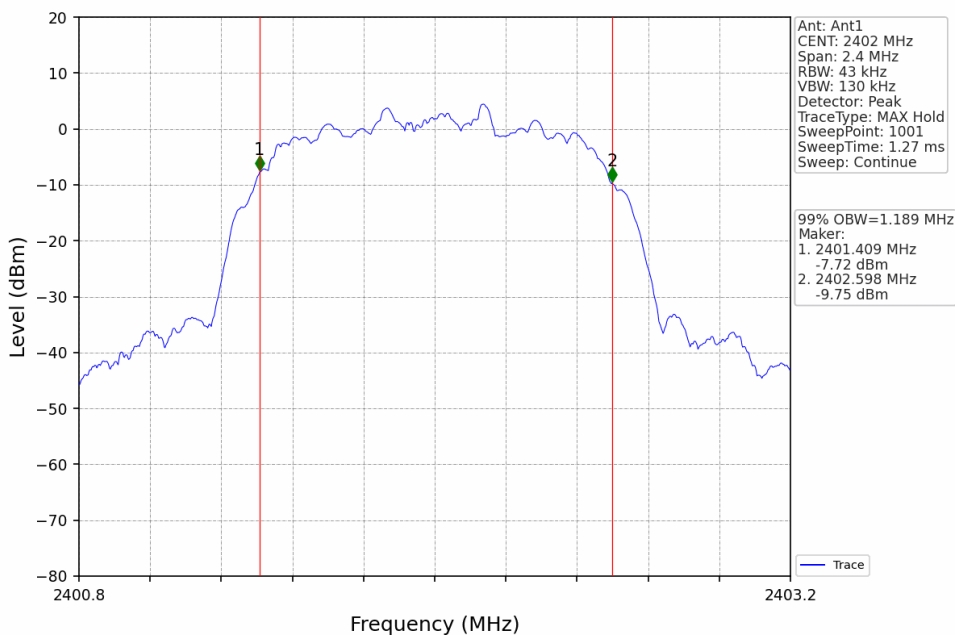
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



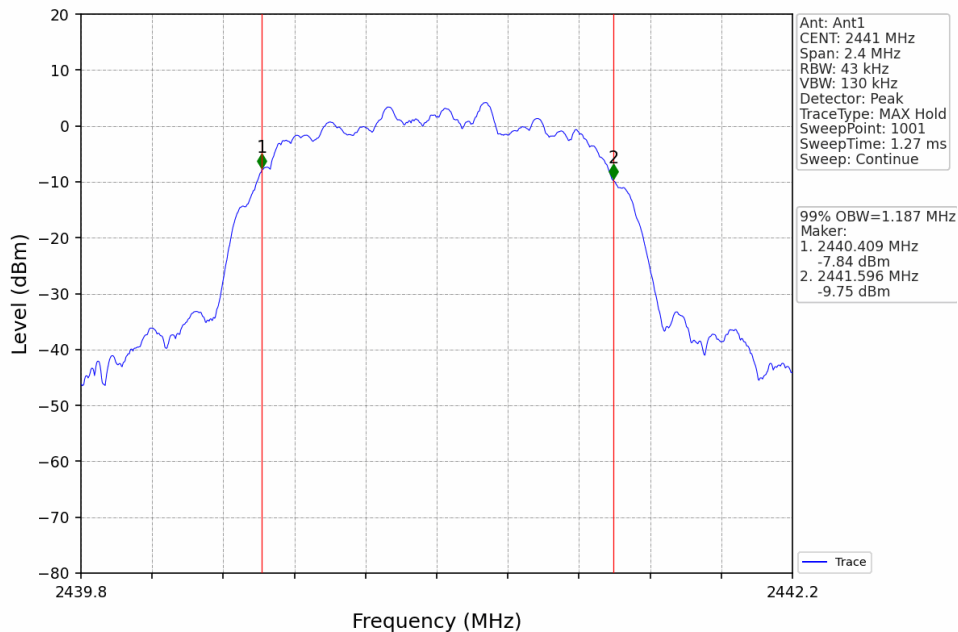
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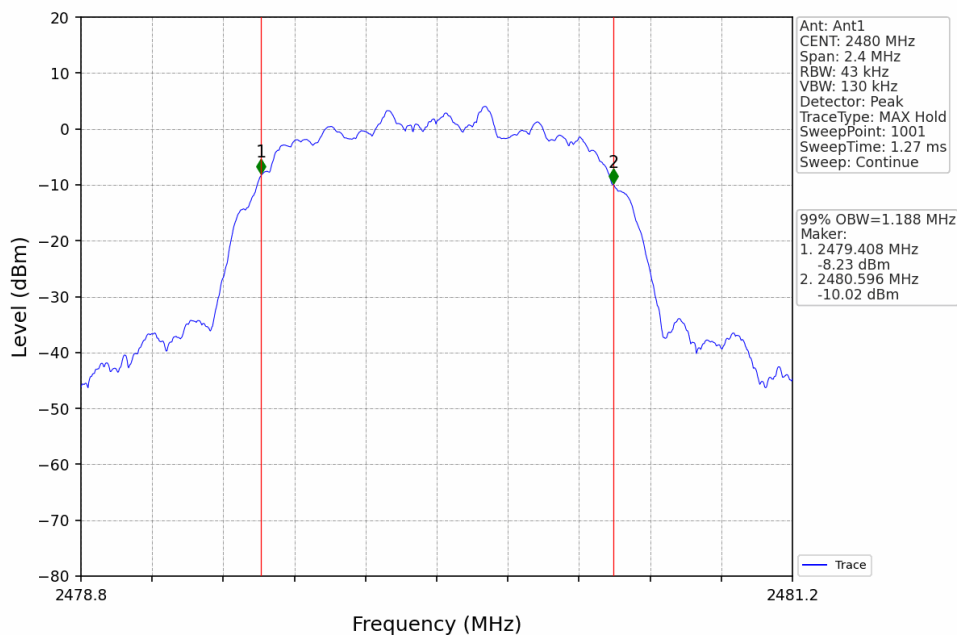
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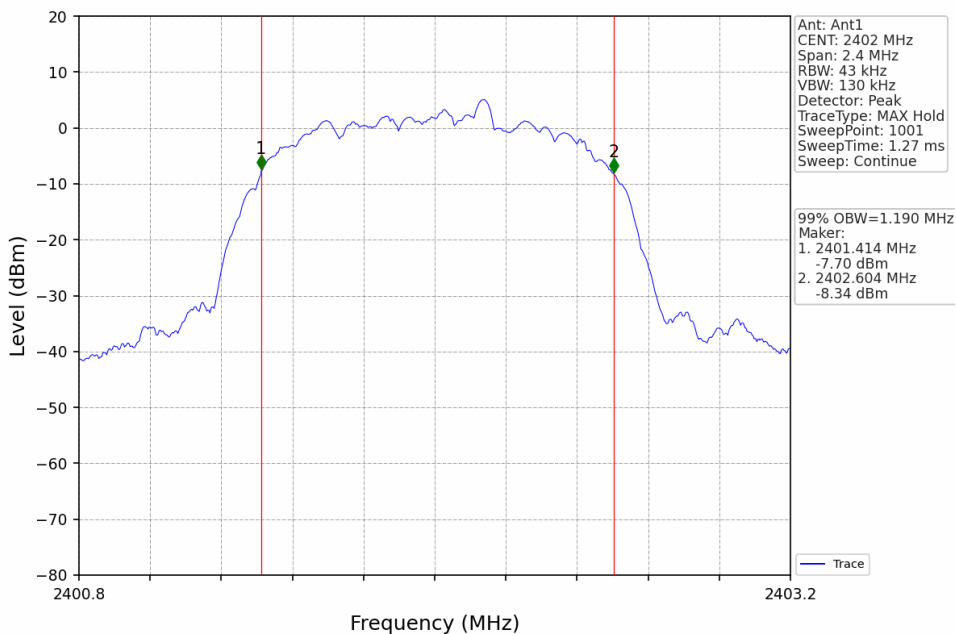
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



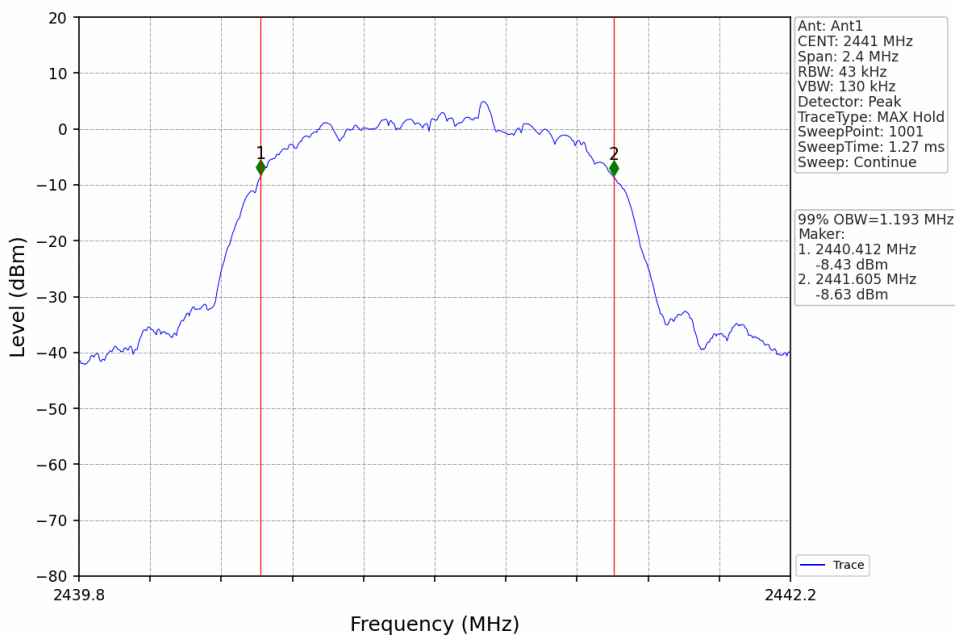
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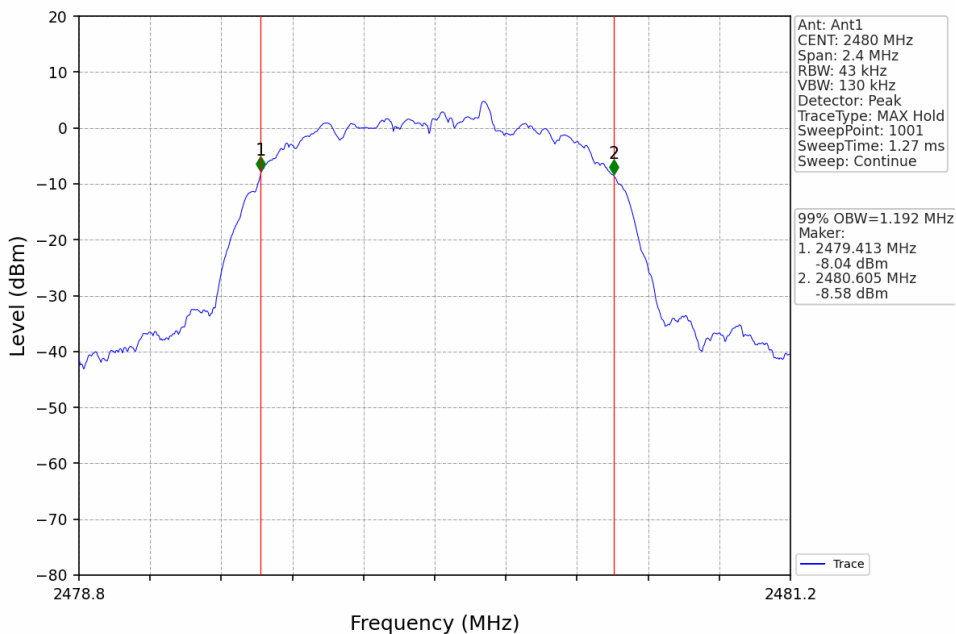
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300090902

Page: 129 of 174

2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.961	/	Pass
		2441	DH5	1	0.959	/	Pass
		2480	DH5	1	0.960	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.346	/	Pass
		2441	2DH5	1	1.346	/	Pass
		2480	2DH5	1	1.347	/	Pass
8DPSK	SISO	2402	3DH5	1	1.322	/	Pass
		2441	3DH5	1	1.321	/	Pass
		2480	3DH5	1	1.326	/	Pass



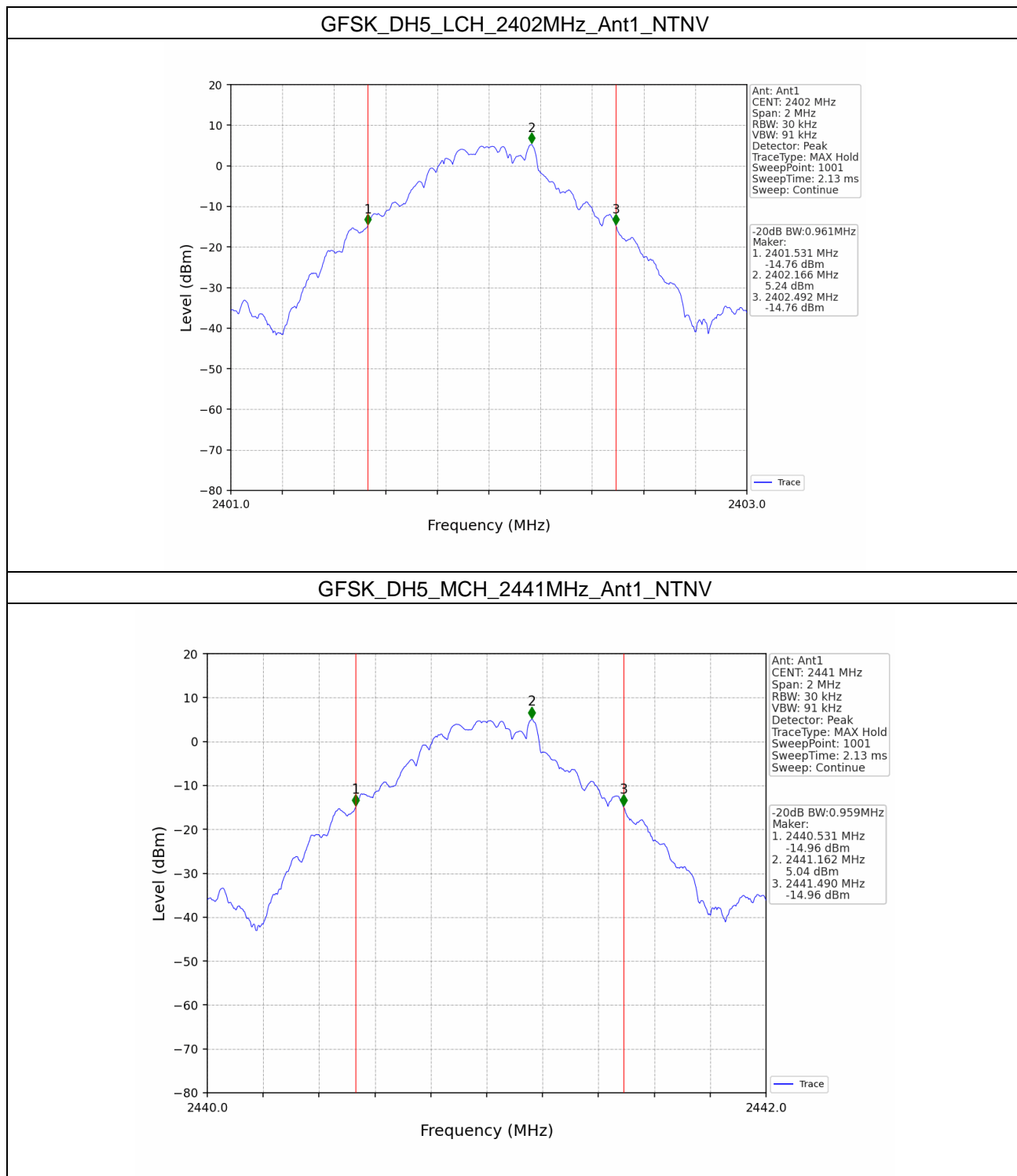
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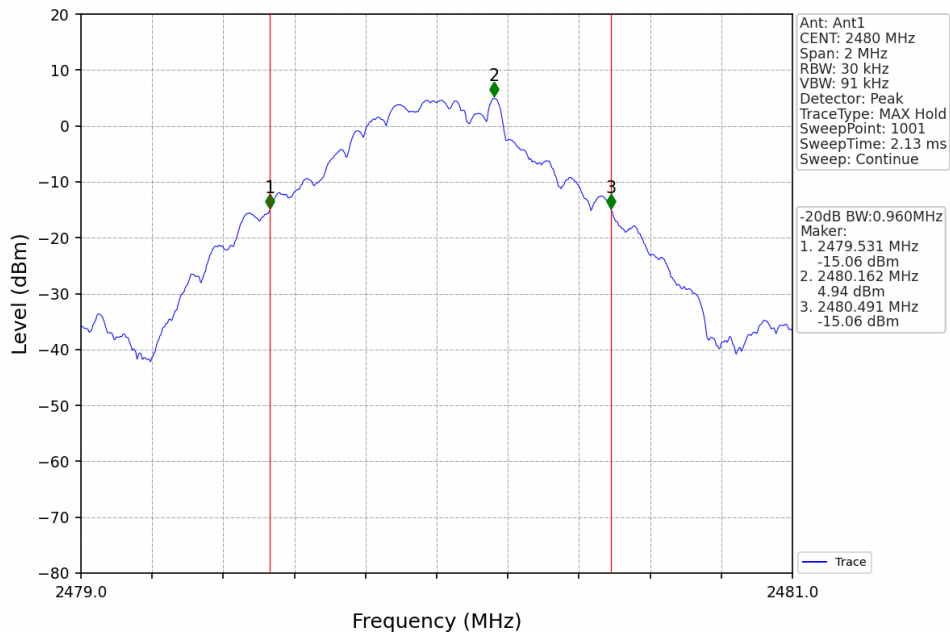
2.2.2 Test Graph



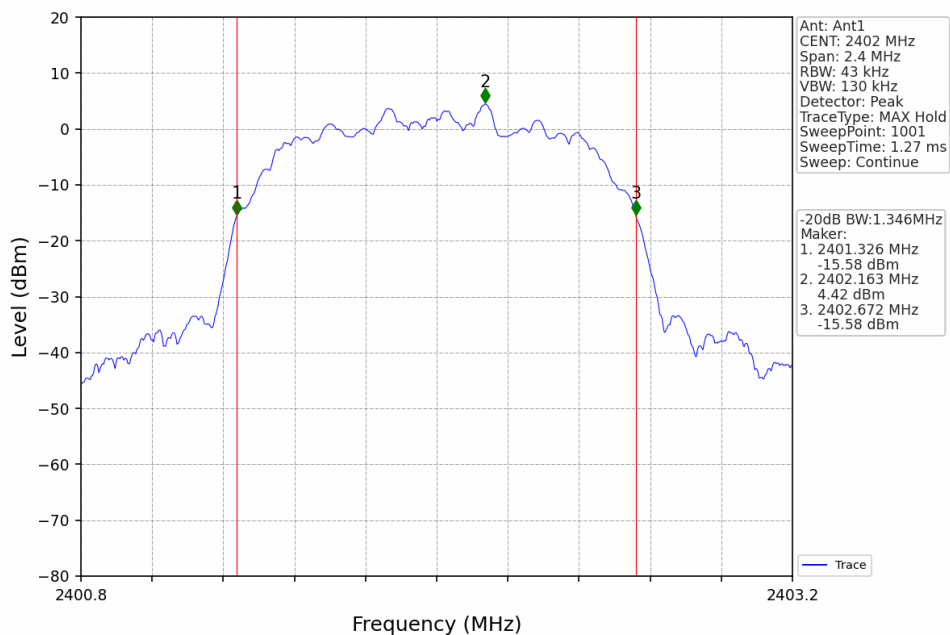
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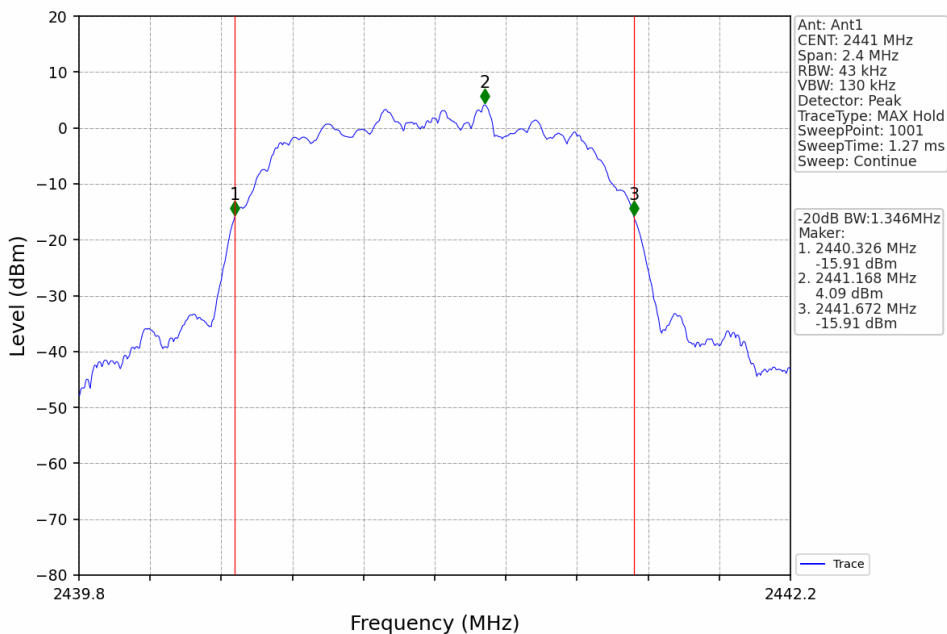
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



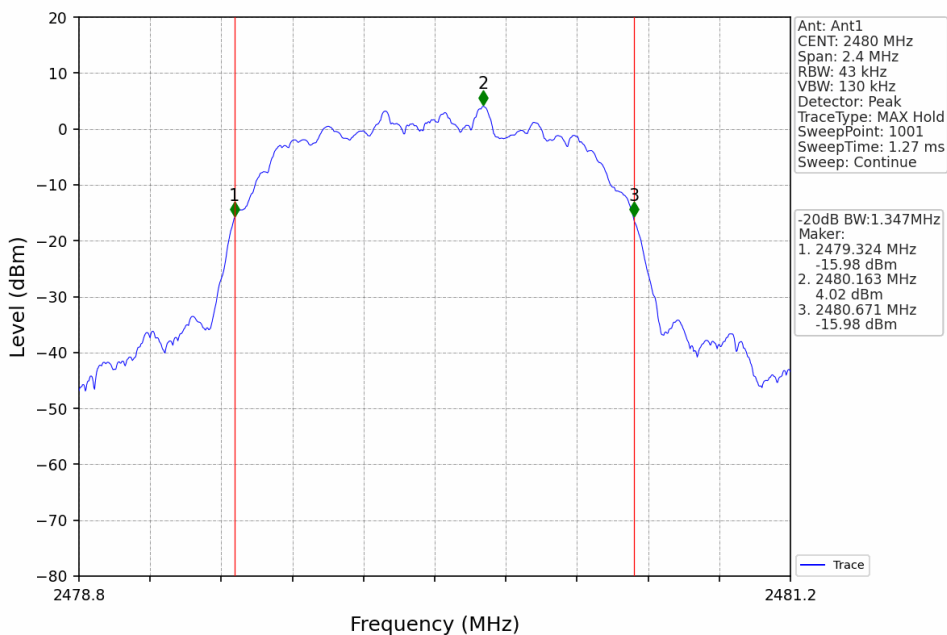
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



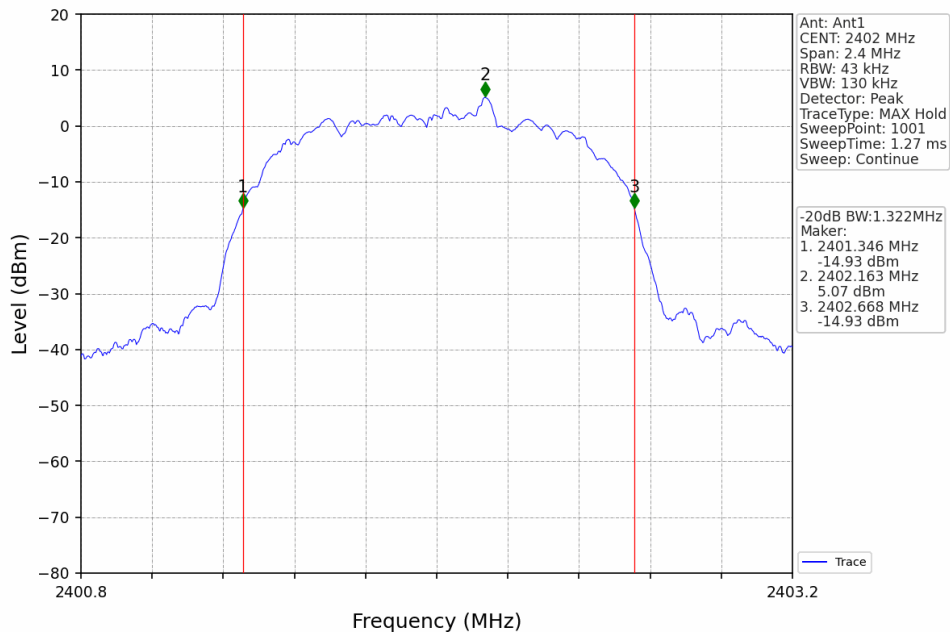
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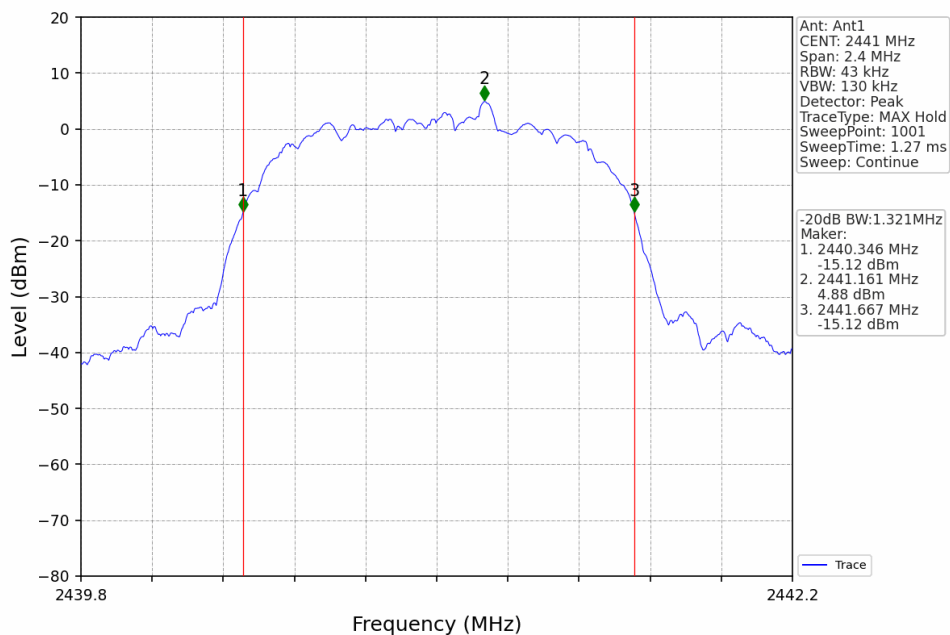
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



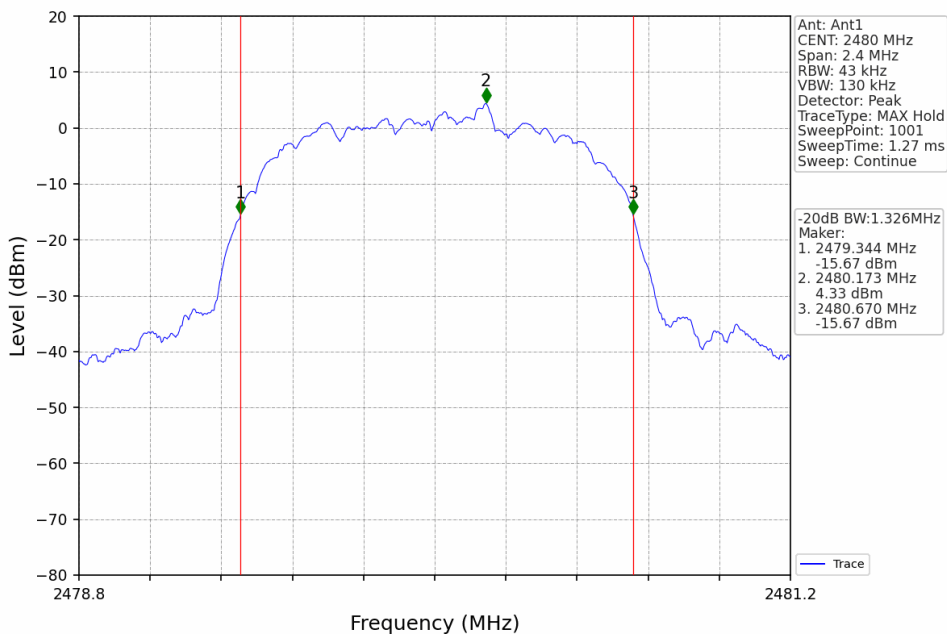
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

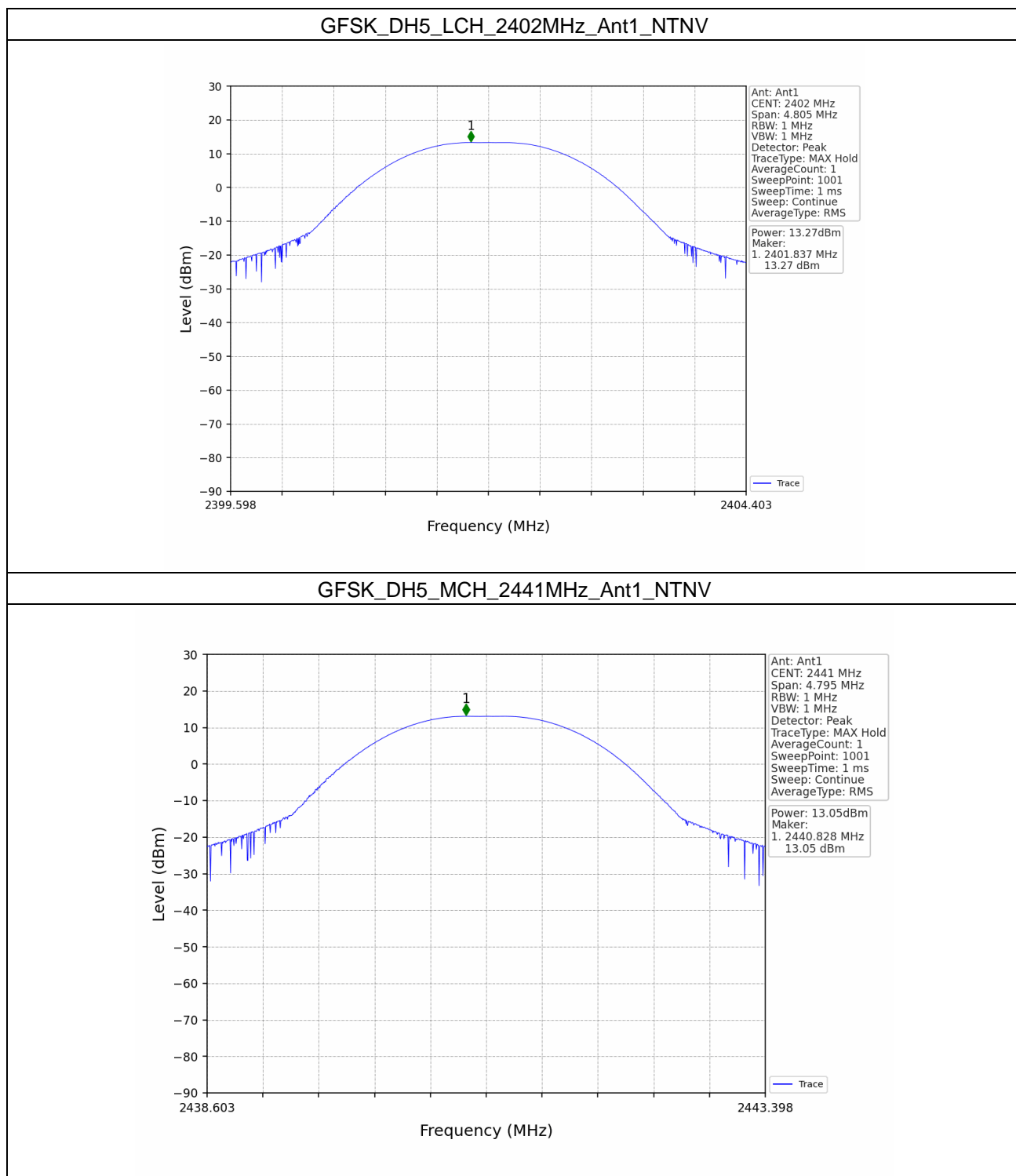
3.1 Power

3.1.1 Test Result

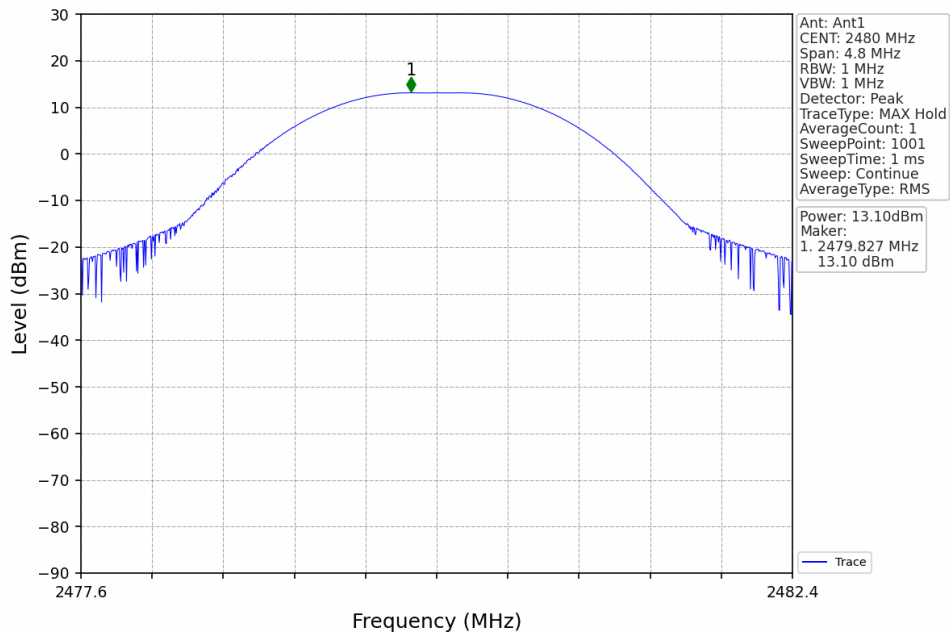
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	13.67	<=30	Pass
		2441	DH5	13.45	<=30	Pass
		2480	DH5	13.50	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	12.90	<=20.97	Pass
		2441	2DH5	12.65	<=20.97	Pass
		2480	2DH5	12.62	<=20.97	Pass
8DPSK	SISO	2402	3DH5	13.40	<=20.97	Pass
		2441	3DH5	13.15	<=20.97	Pass
		2480	3DH5	13.16	<=20.97	Pass



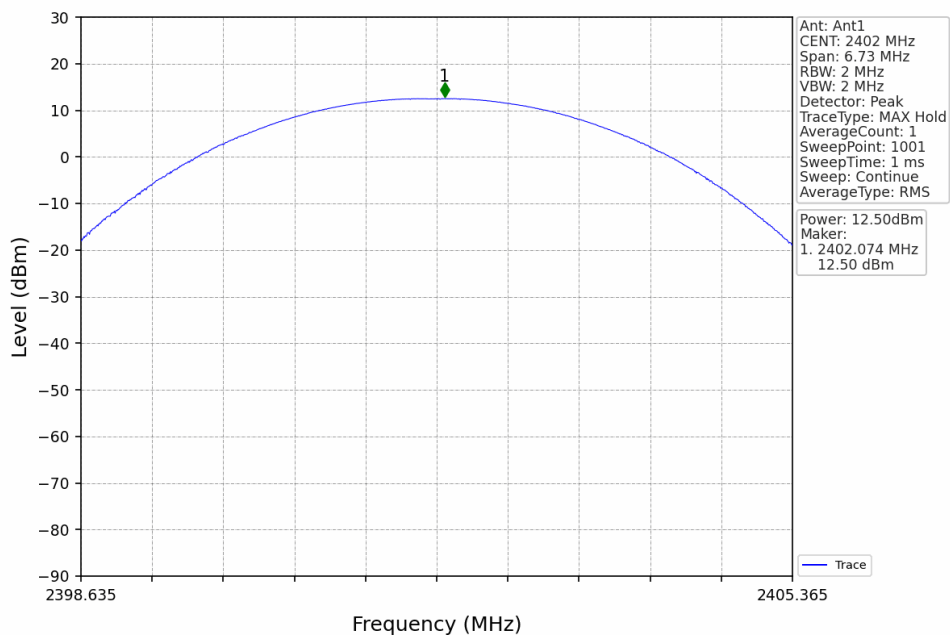
3.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



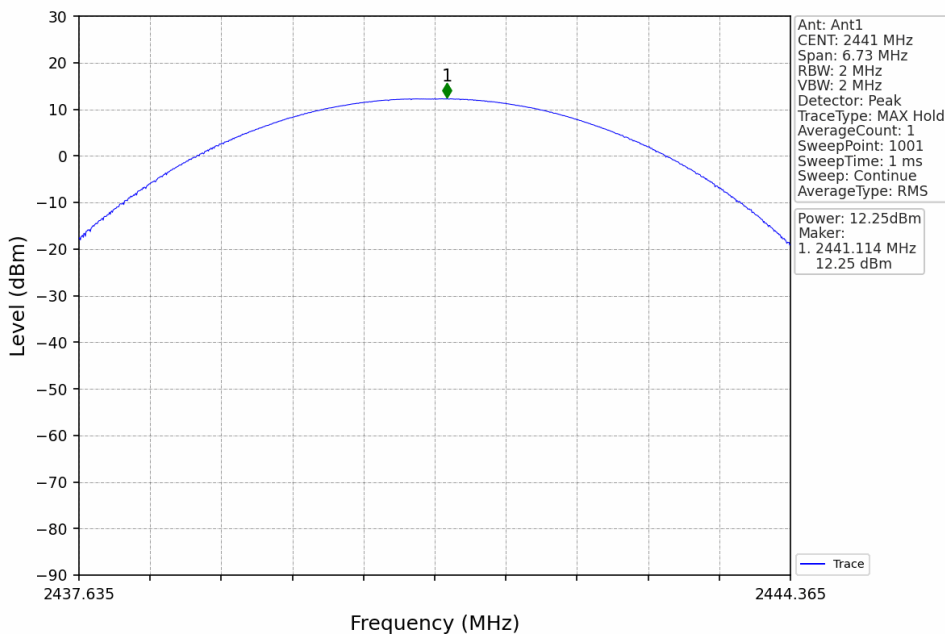
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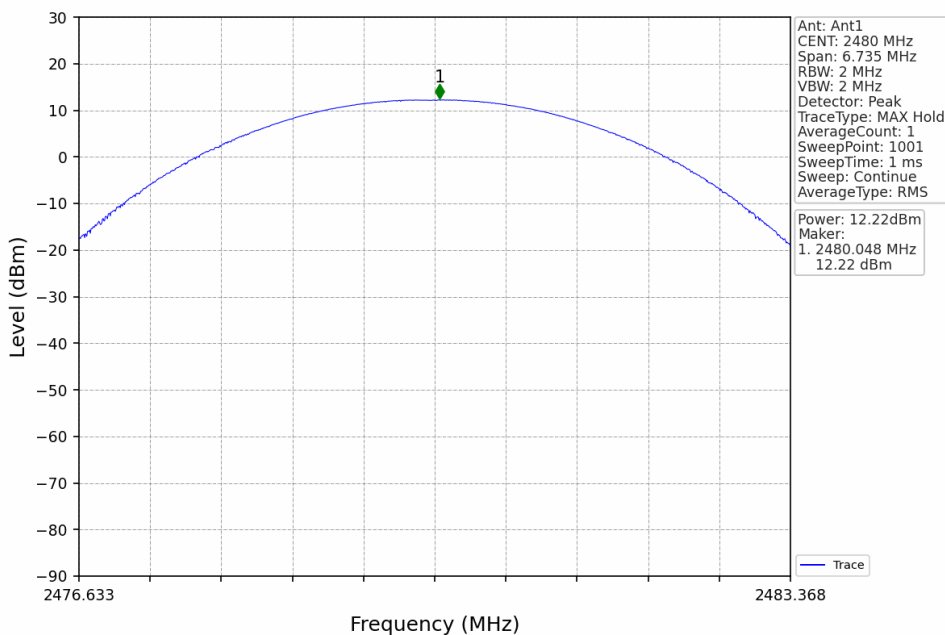
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



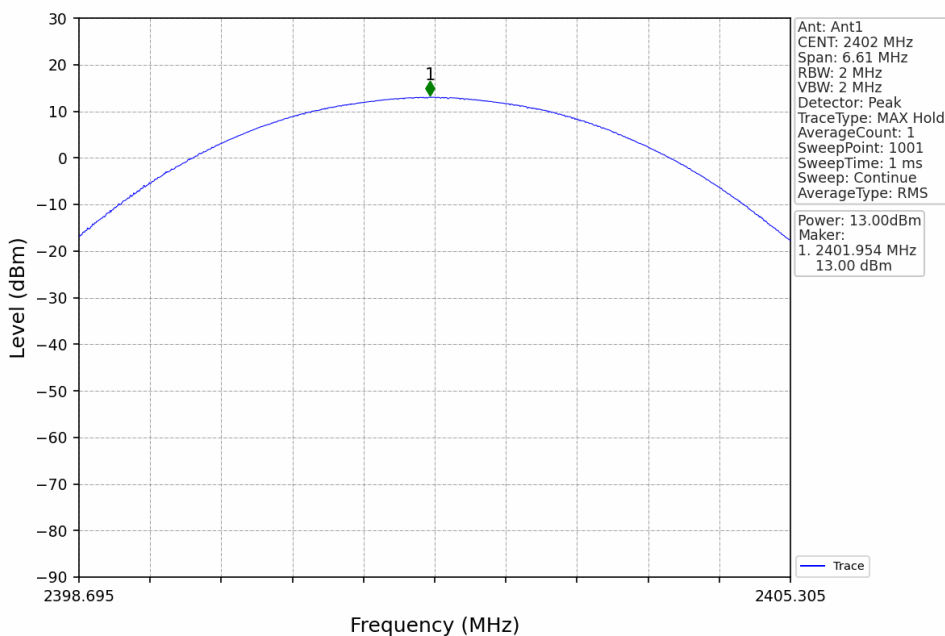
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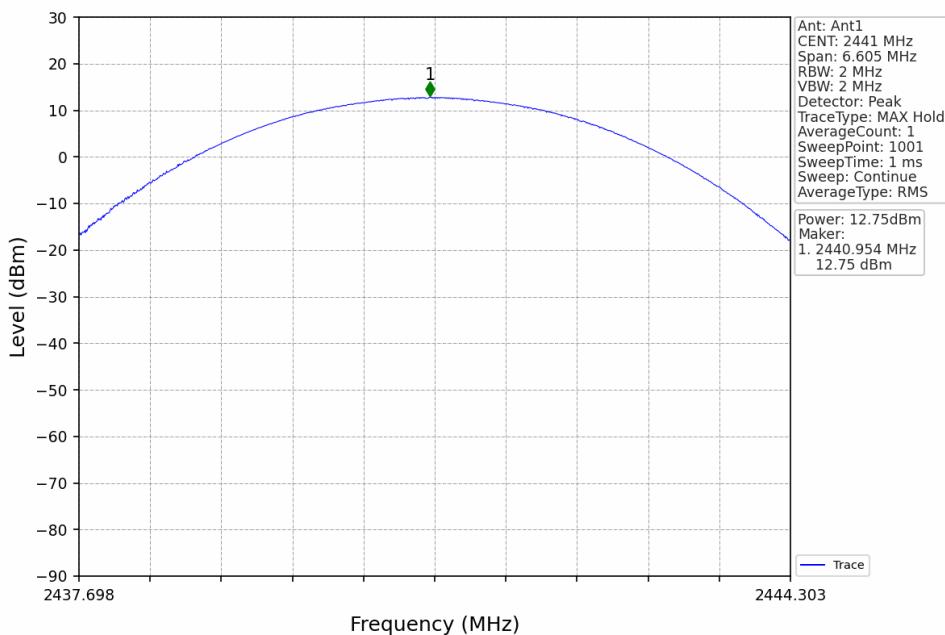
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



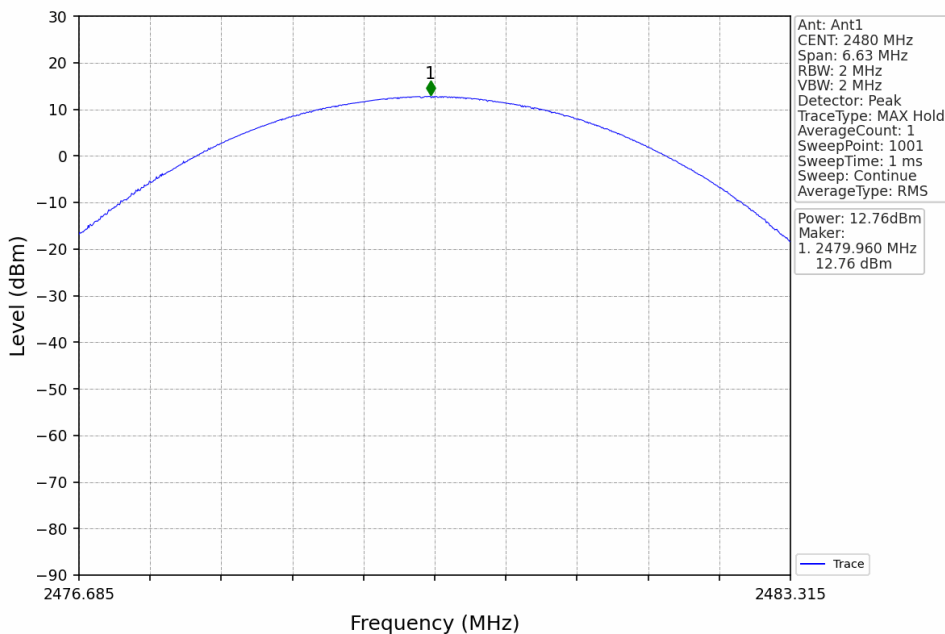
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

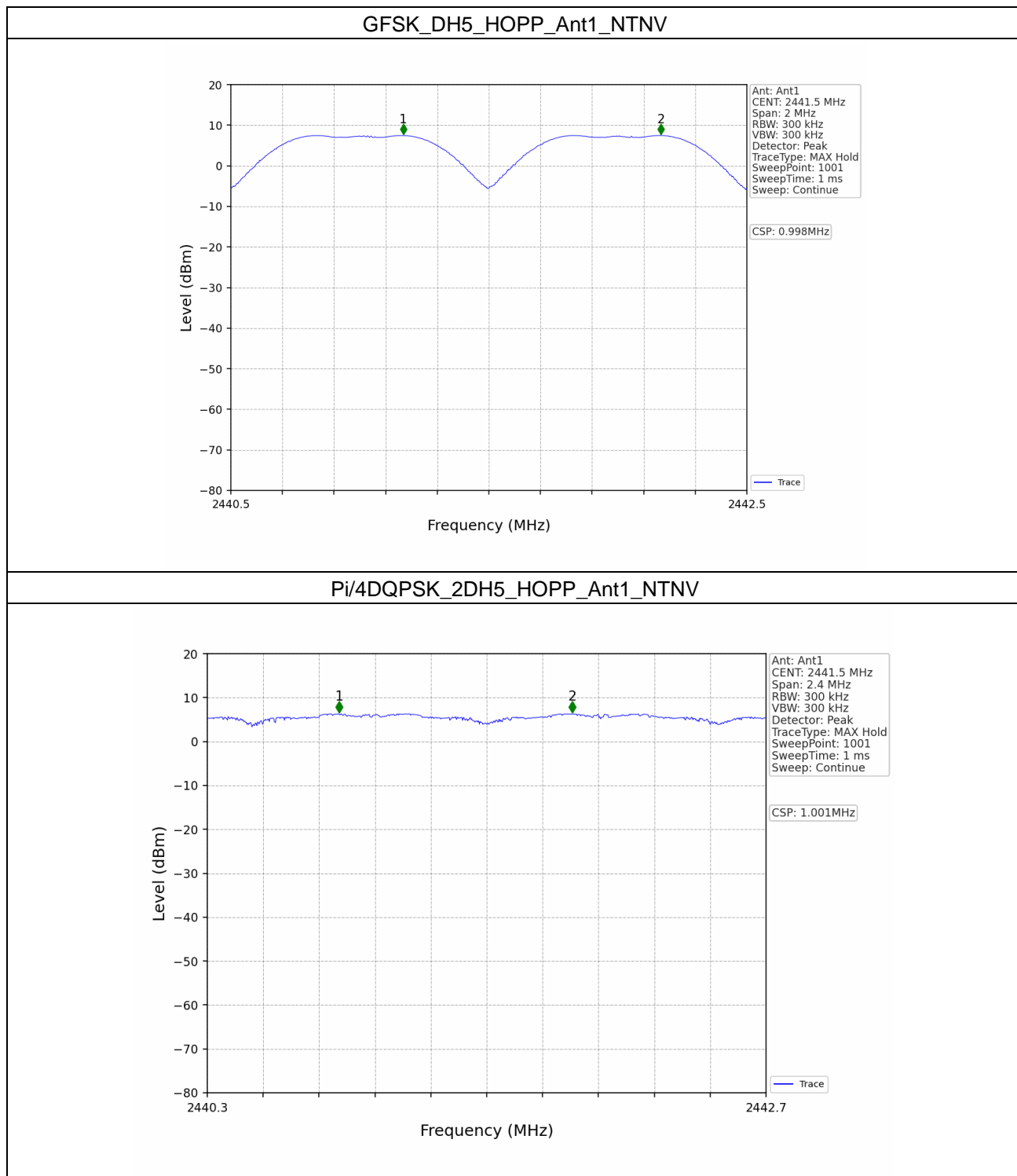
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.998	0.961	≥ 0.961	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.347	≥ 0.898	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.326	≥ 0.884	Pass



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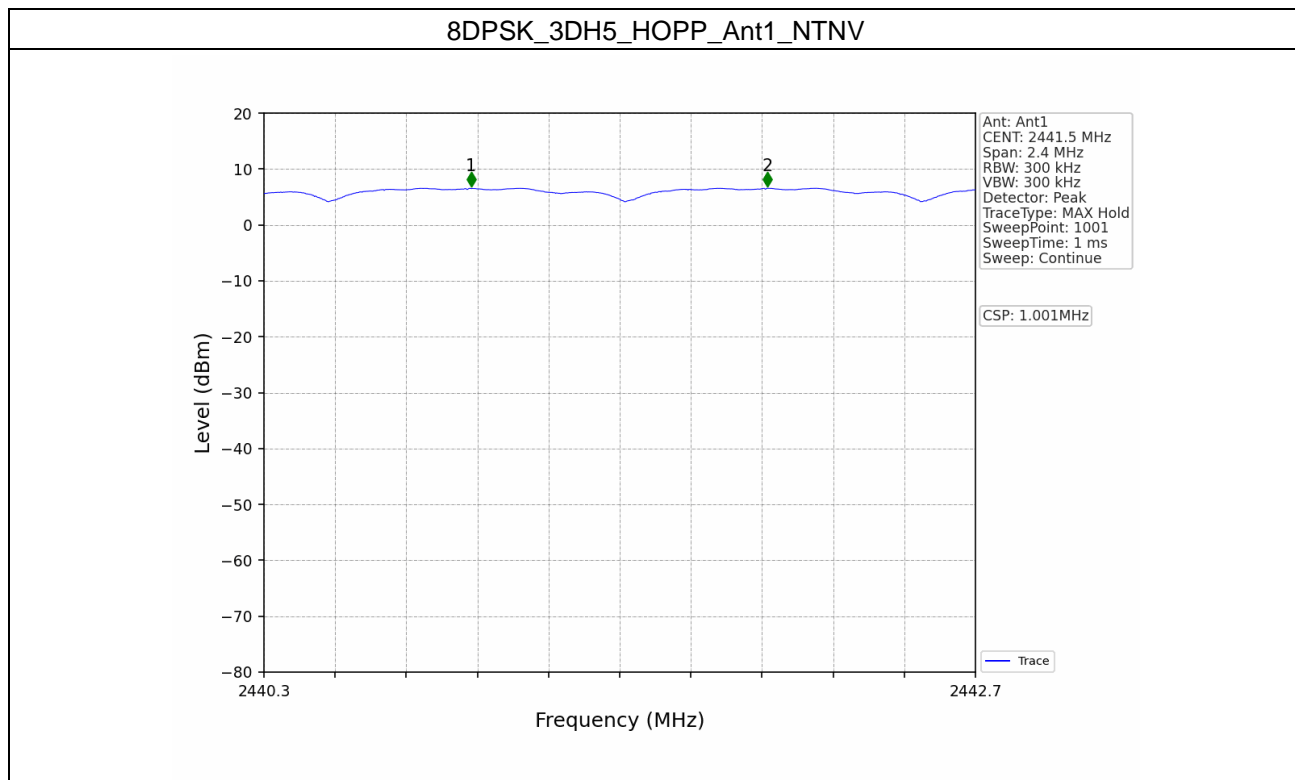
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4.1.2 Test Graph



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5. Number of Hopping Frequencies

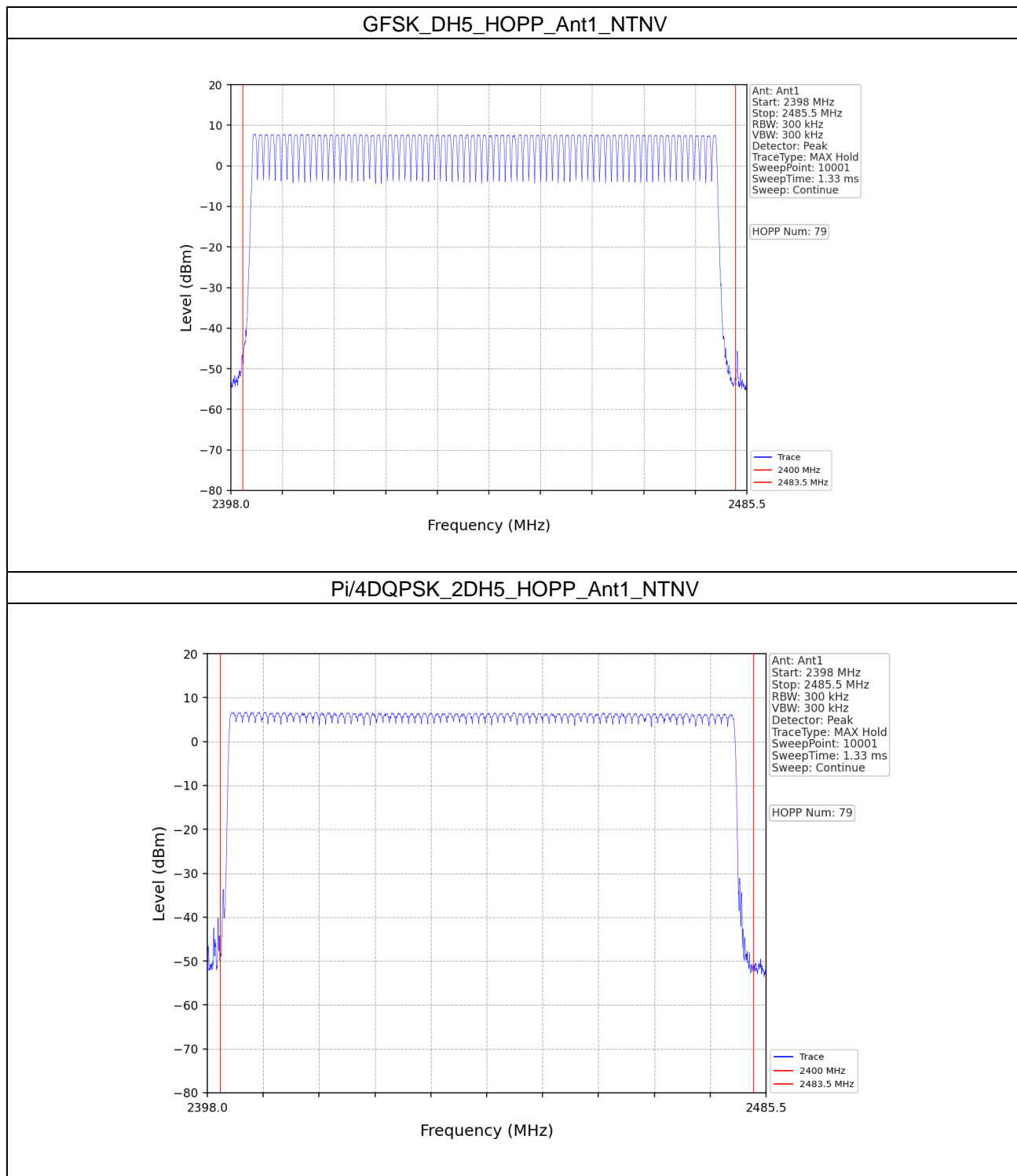
5.1 HoppNum

5.1.1 Test Result

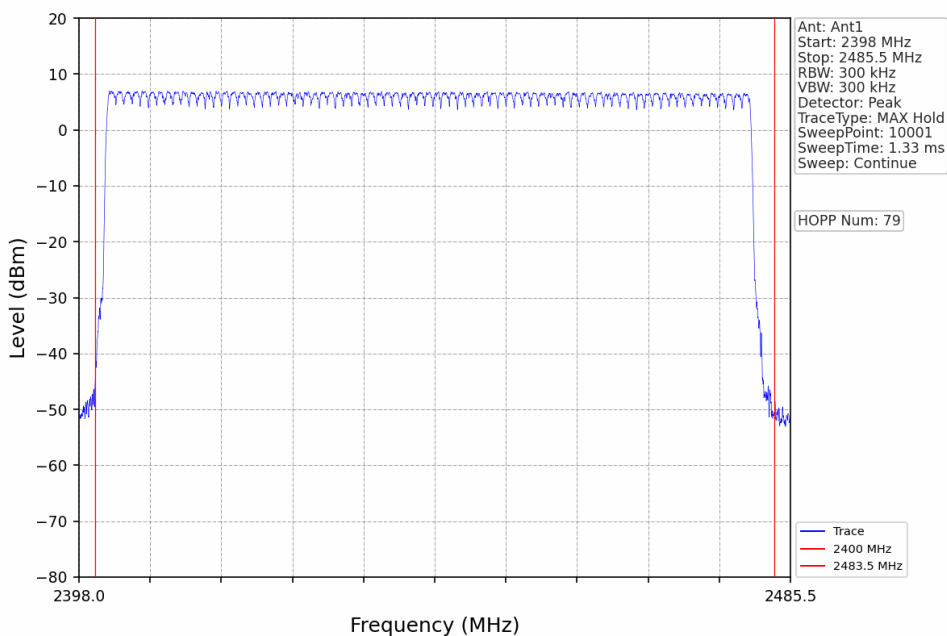
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass



5.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

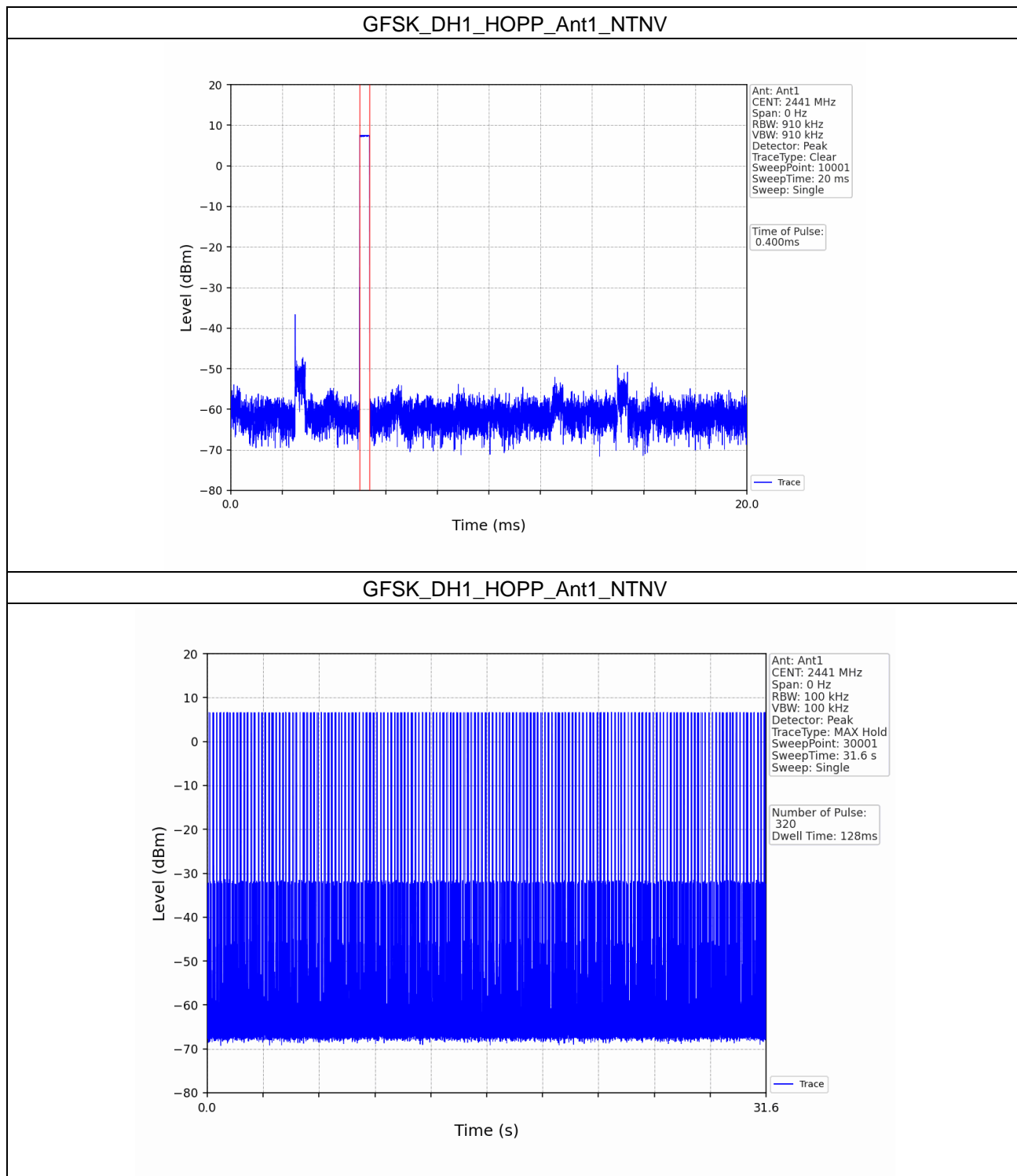
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.400	31.600	320	128.000	<=400	Pass
			DH3	1.658	31.600	165	273.570	<=400	Pass
			DH5	2.906	31.600	102	296.412	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.658	31.600	152	252.016	<=400	Pass
			2DH5	2.904	31.600	106	307.824	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.656	31.600	162	268.272	<=400	Pass
			3DH5	2.908	31.600	111	322.788	<=400	Pass



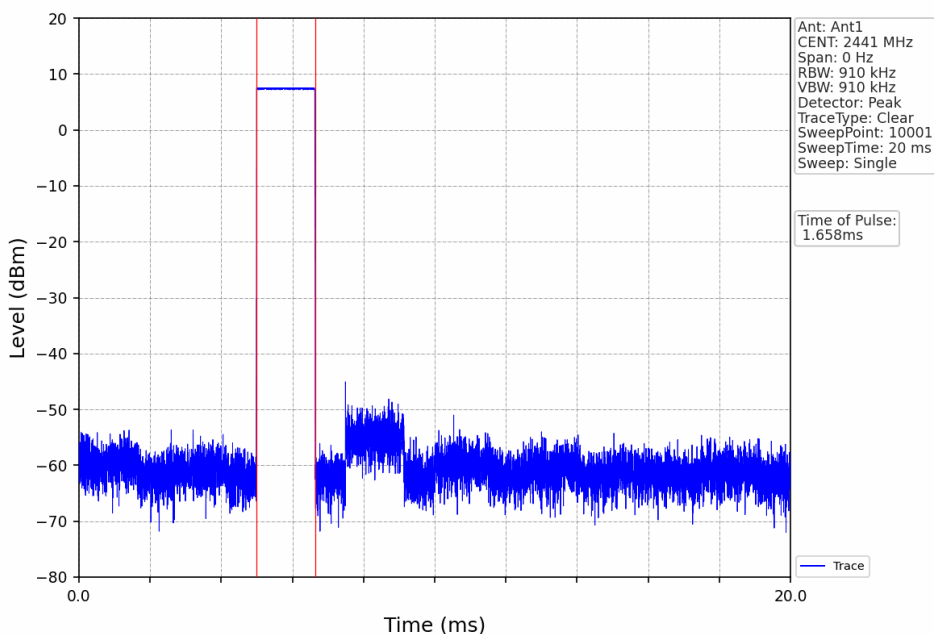
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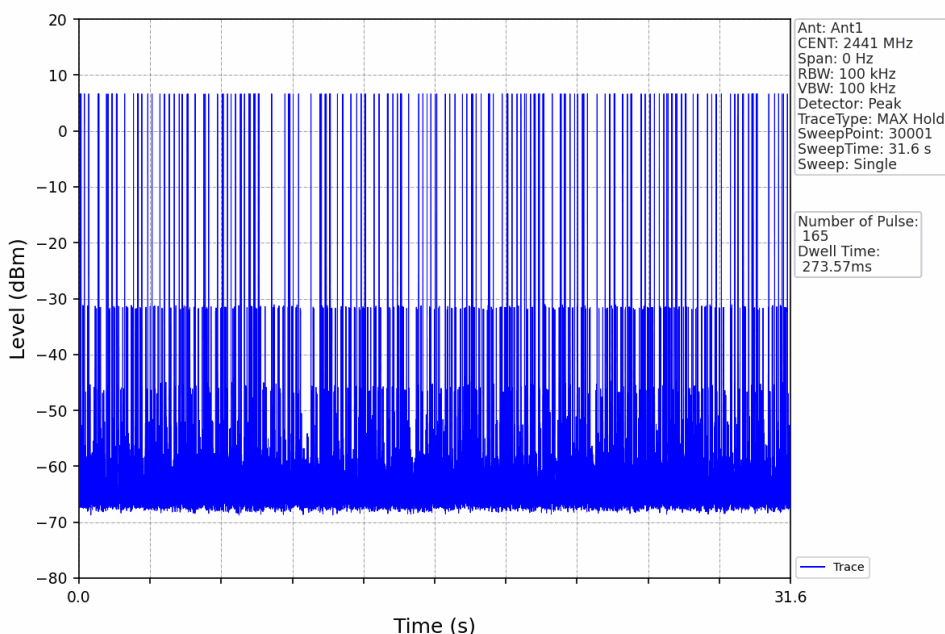
6.1.2 Test Graph



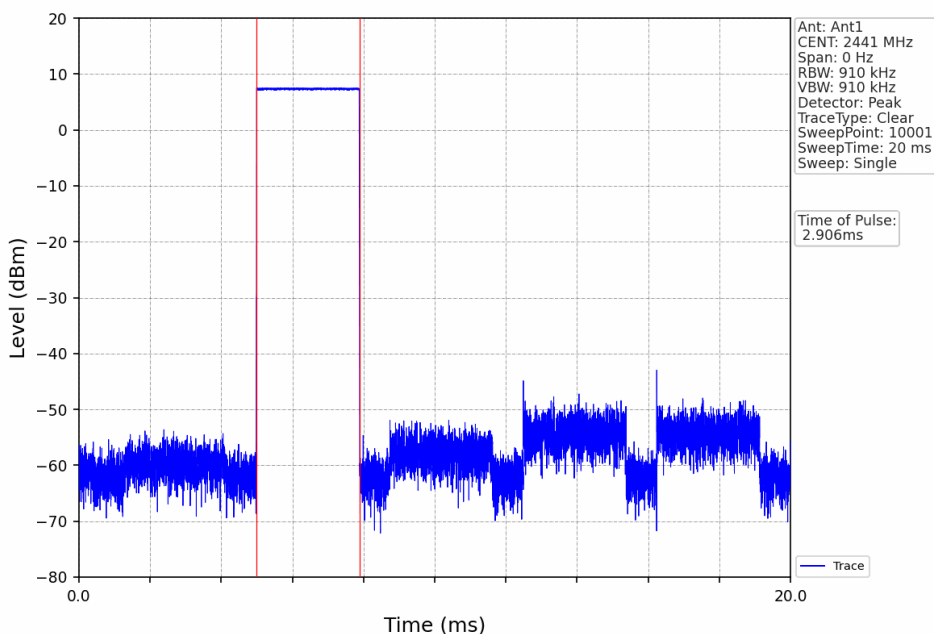
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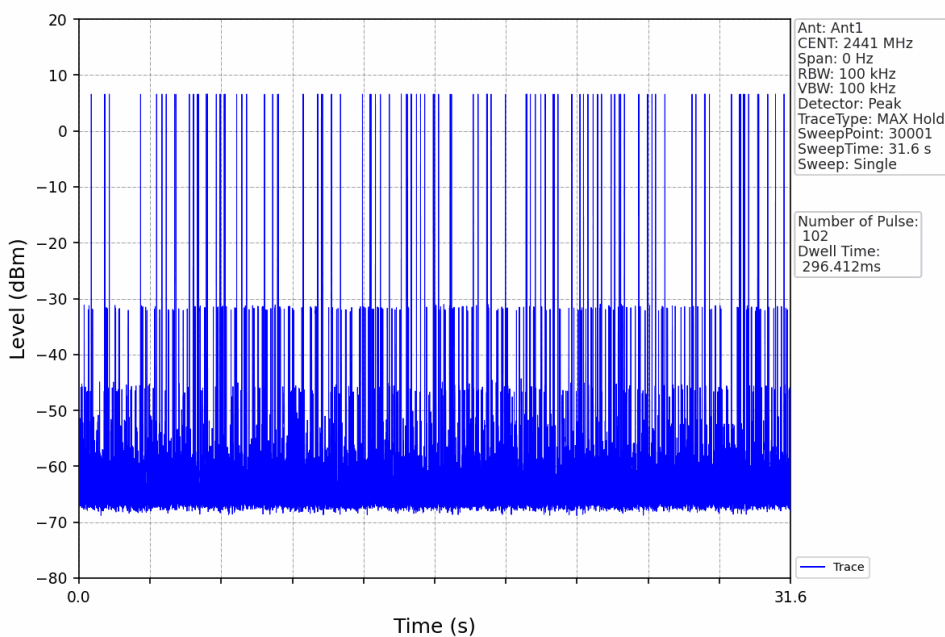
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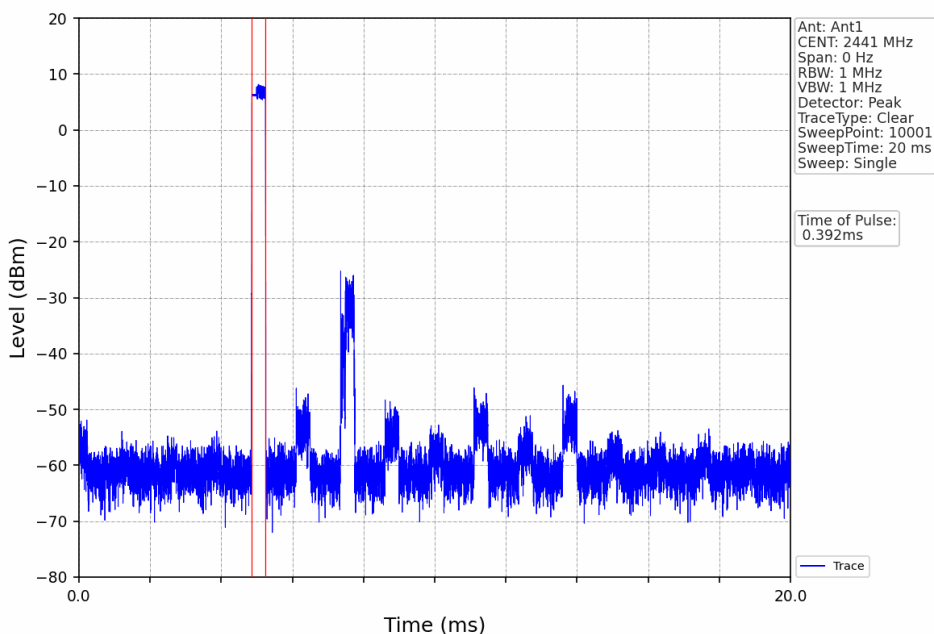
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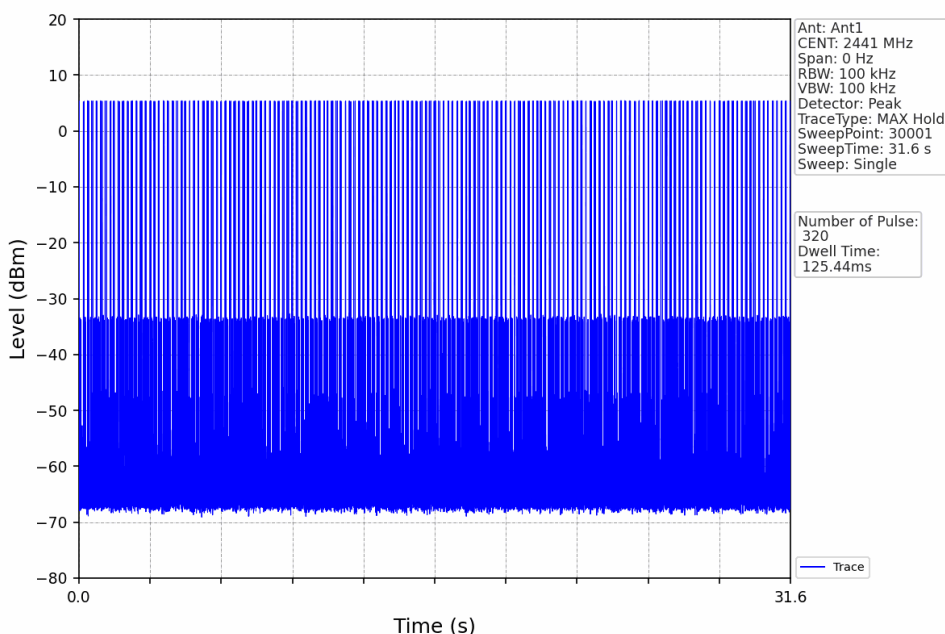
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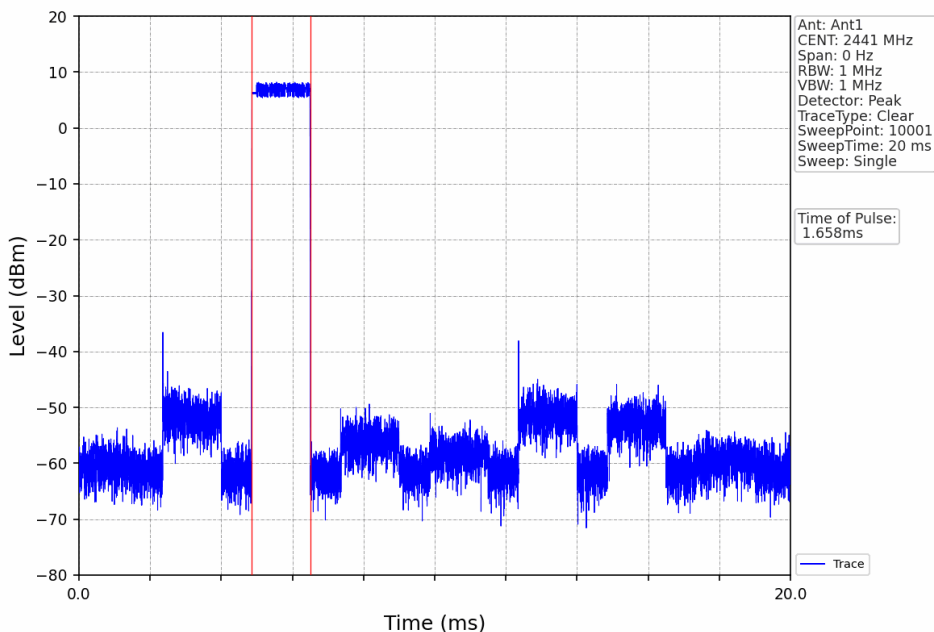
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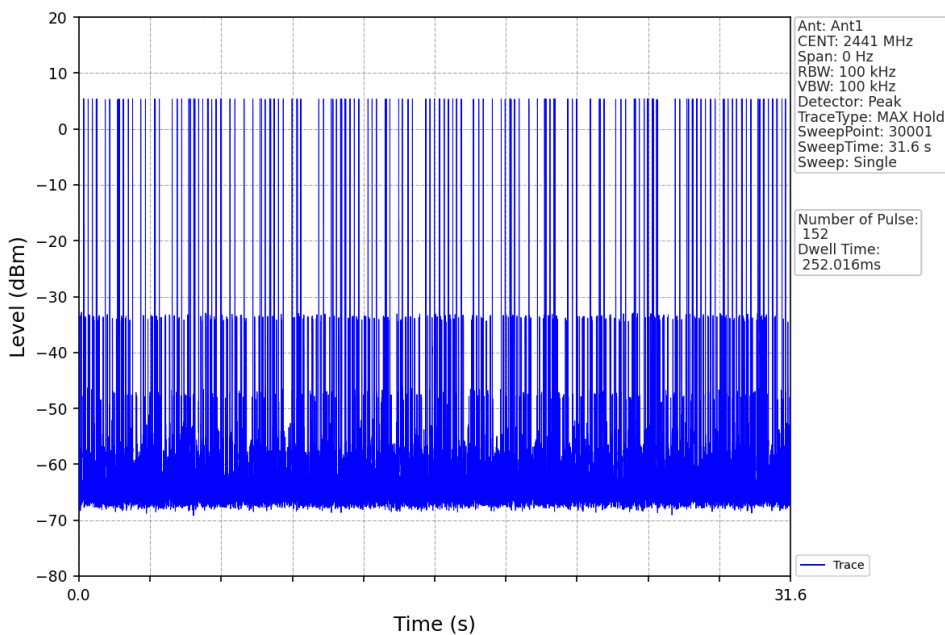
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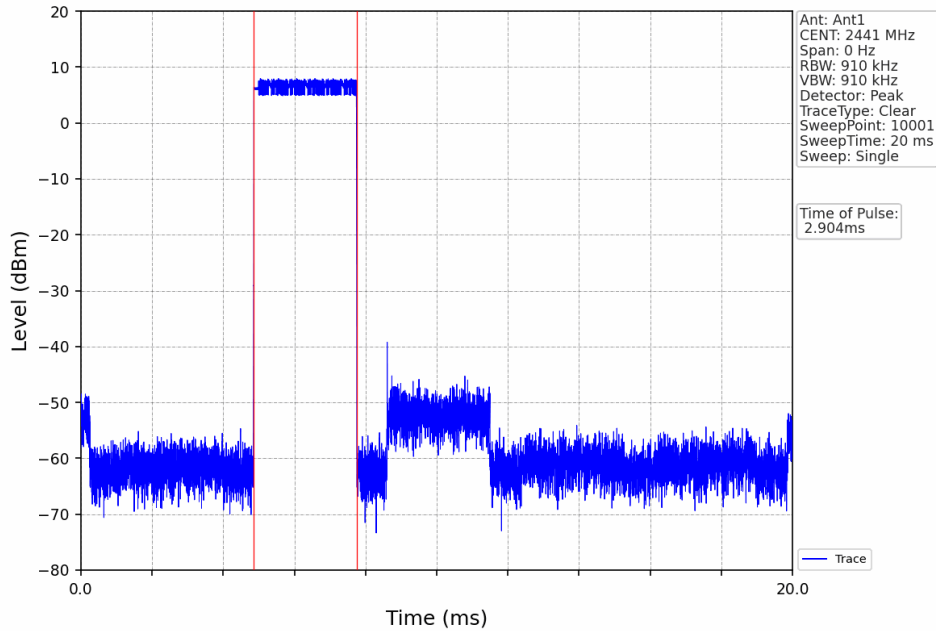
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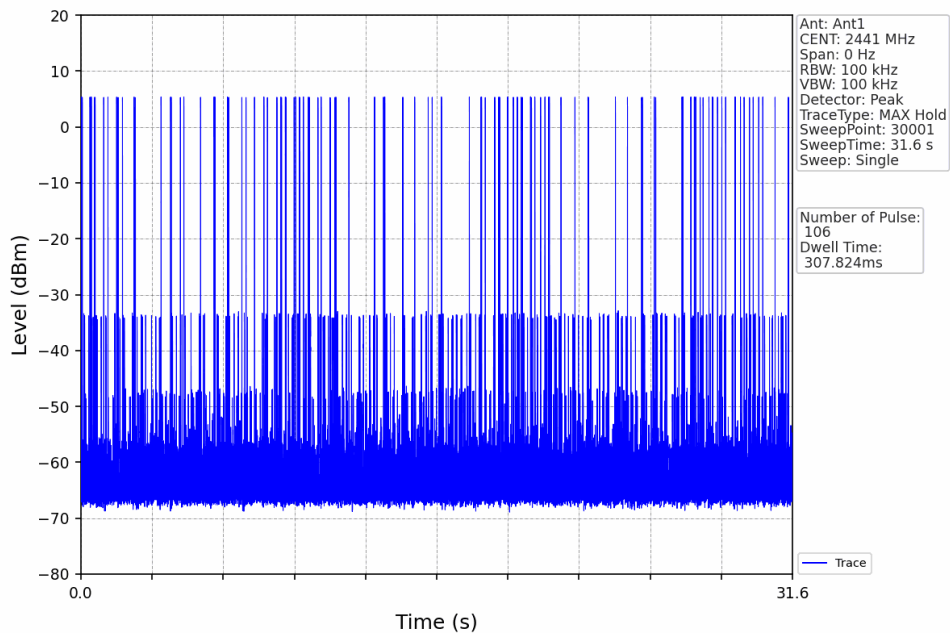
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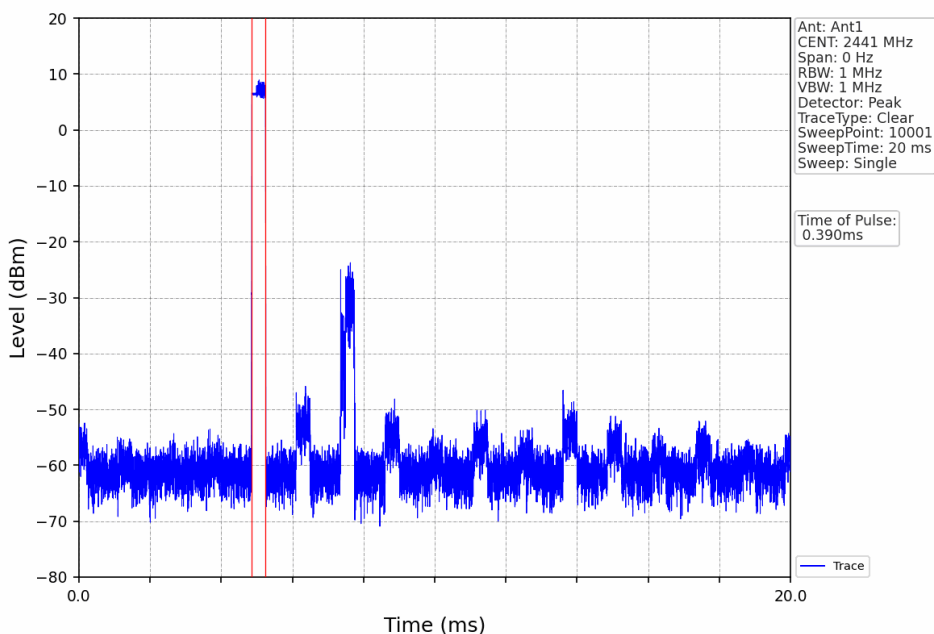
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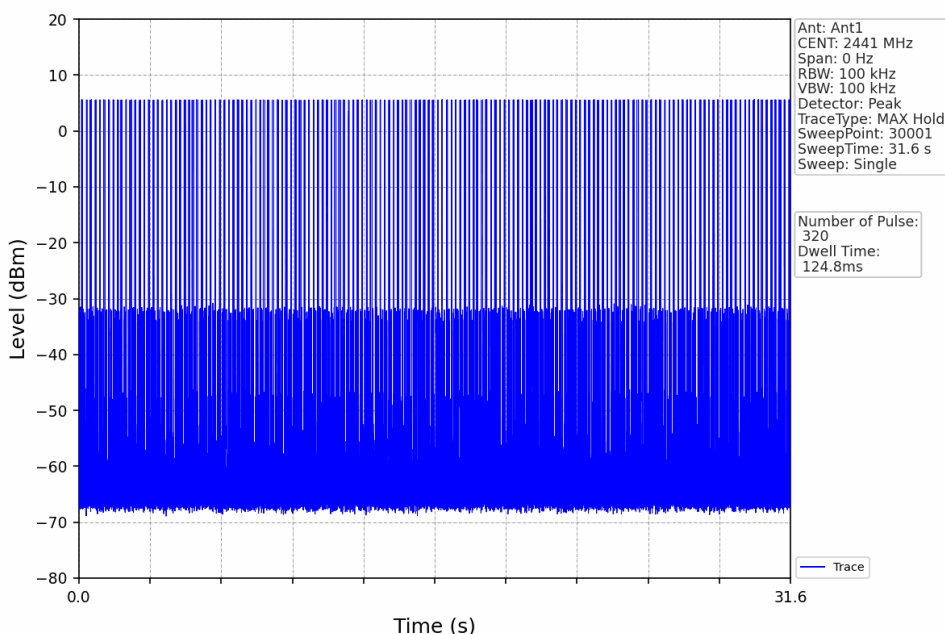
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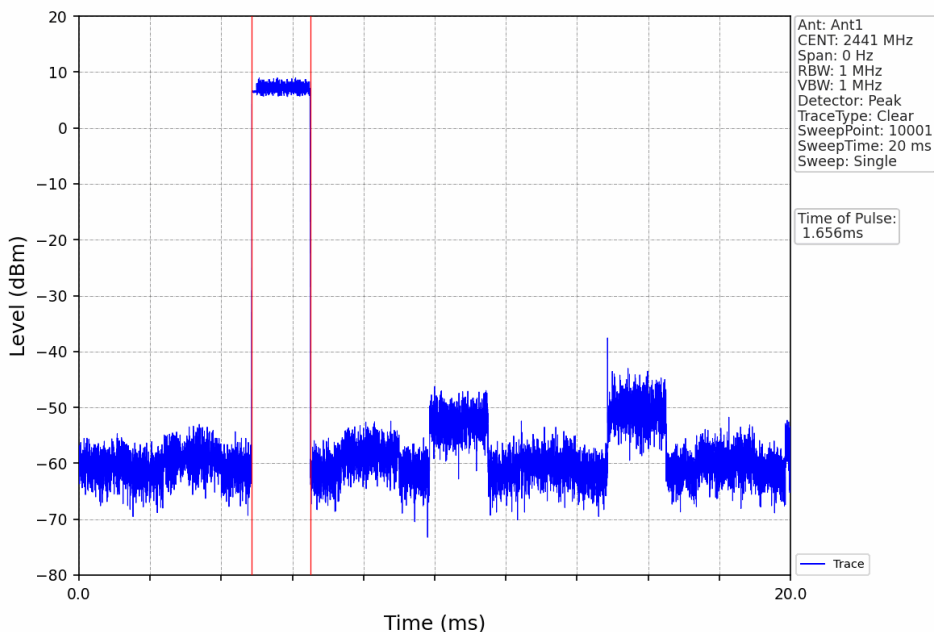
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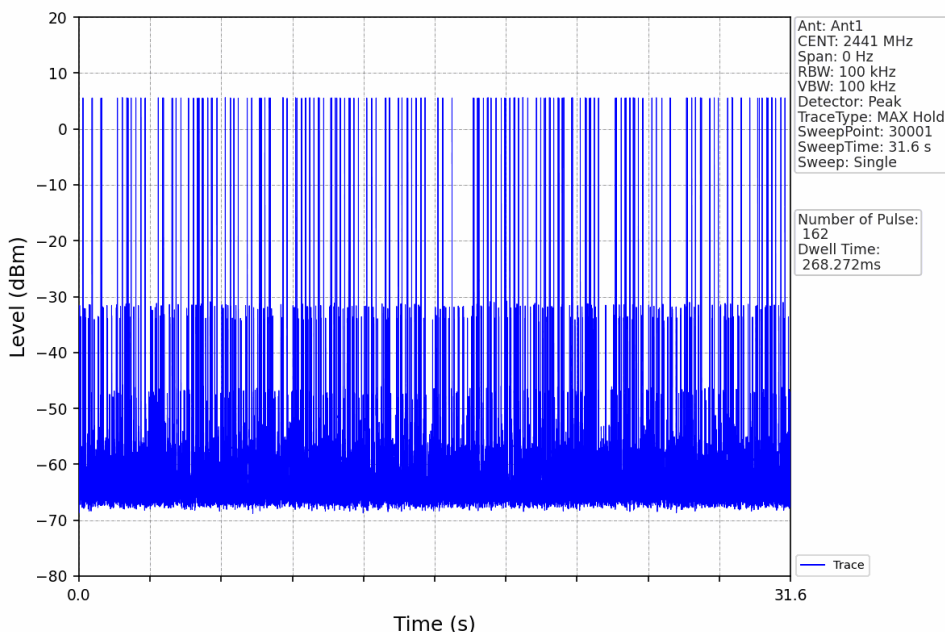
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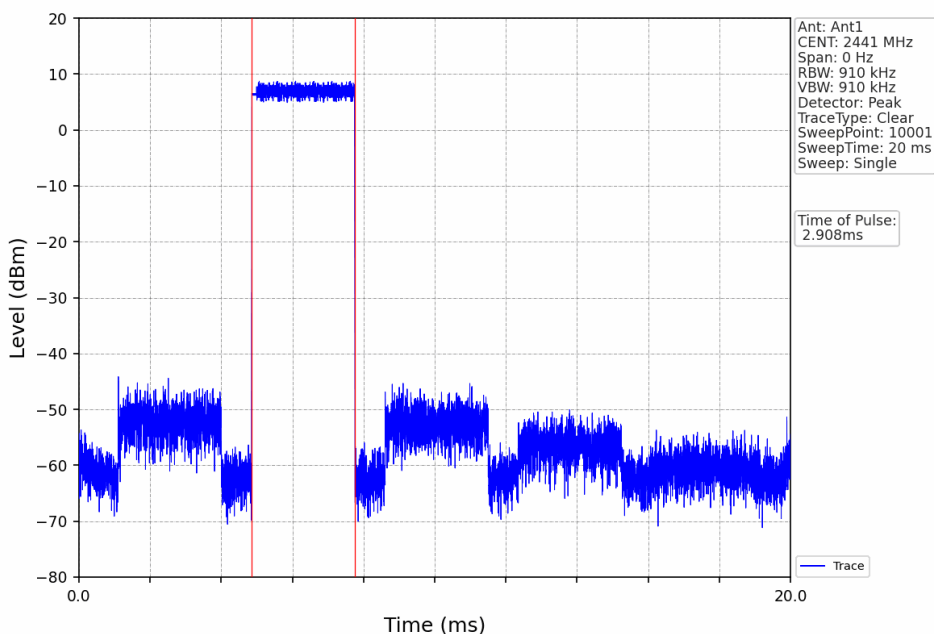
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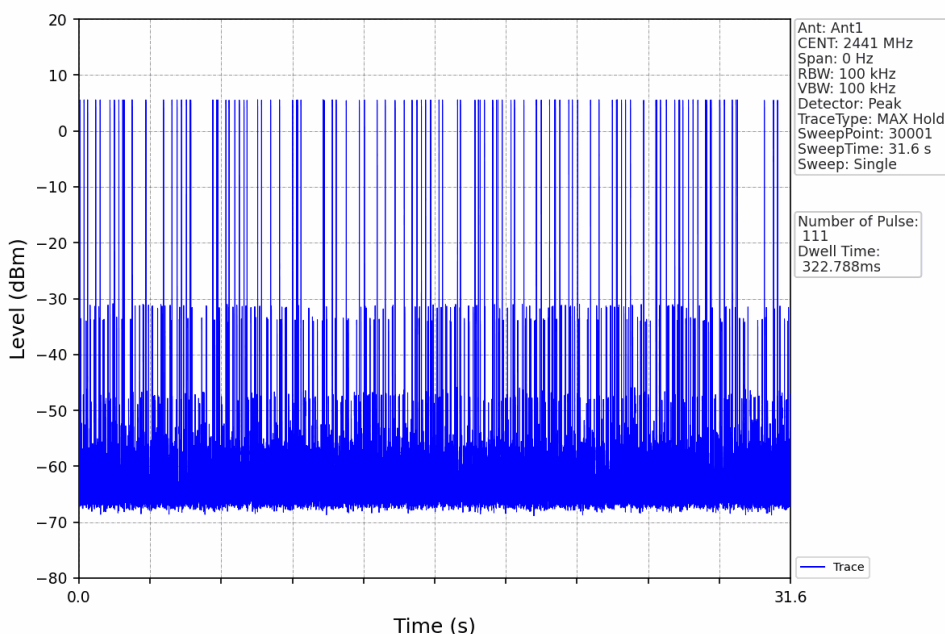
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

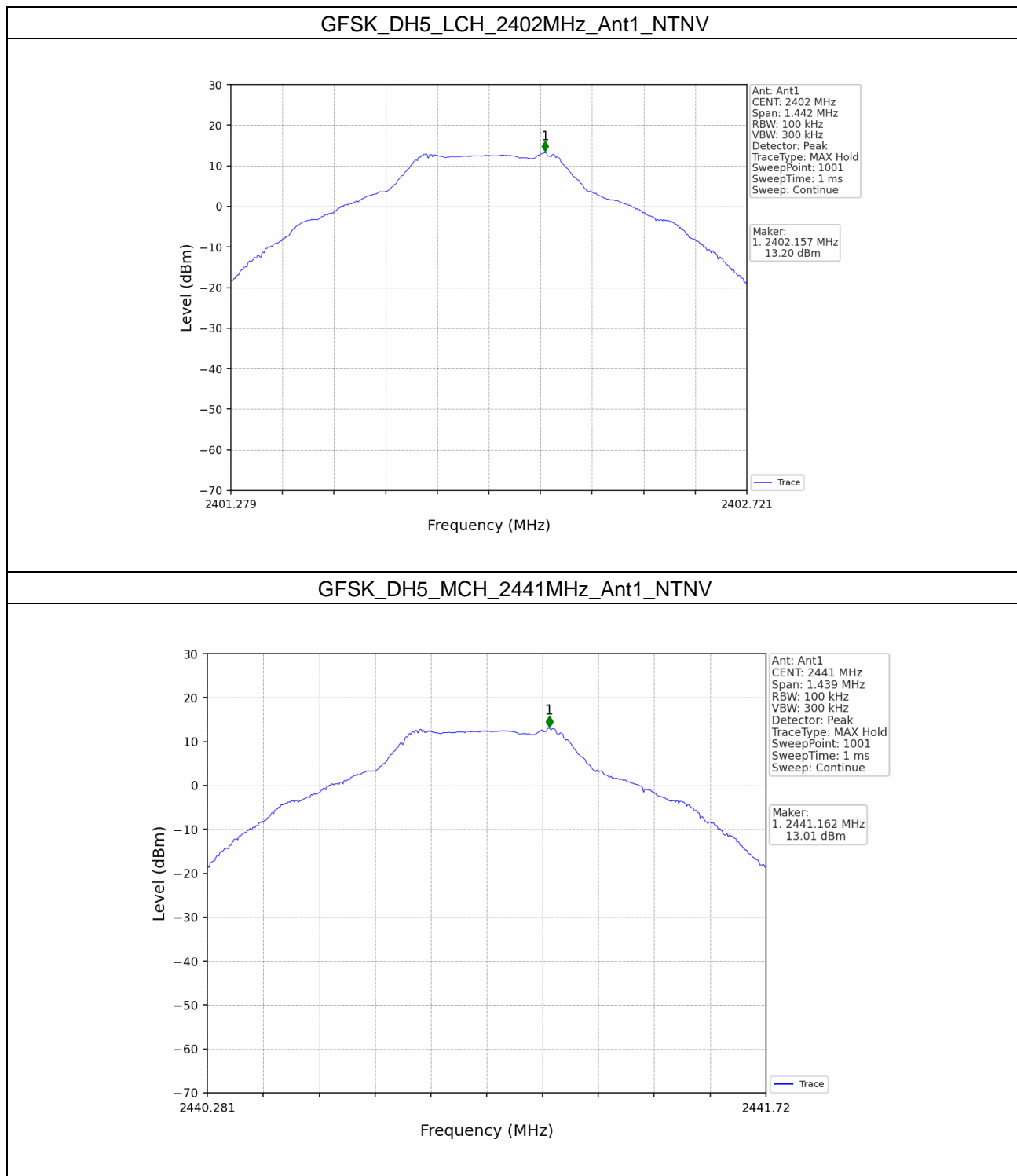
7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	13.20
		2441	DH5	1	13.01
		2480	DH5	1	13.04
Pi/4DQPSK	SISO	2402	2DH5	1	9.79
		2441	2DH5	1	9.57
		2480	2DH5	1	9.41
8DPSK	SISO	2402	3DH5	1	10.01
		2441	3DH5	1	9.64
		2480	3DH5	1	9.51



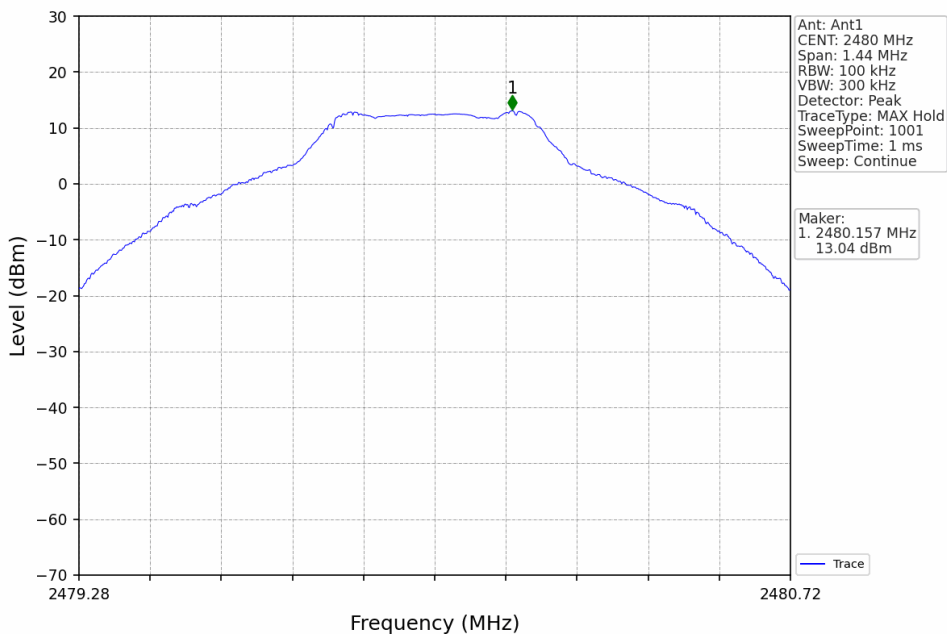
7.1.2 Test Graph



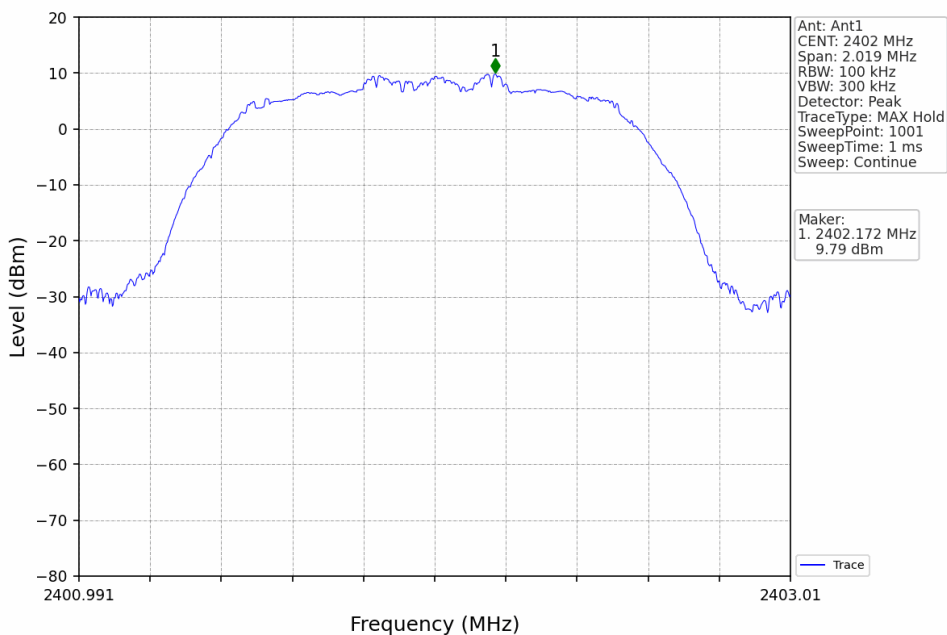
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



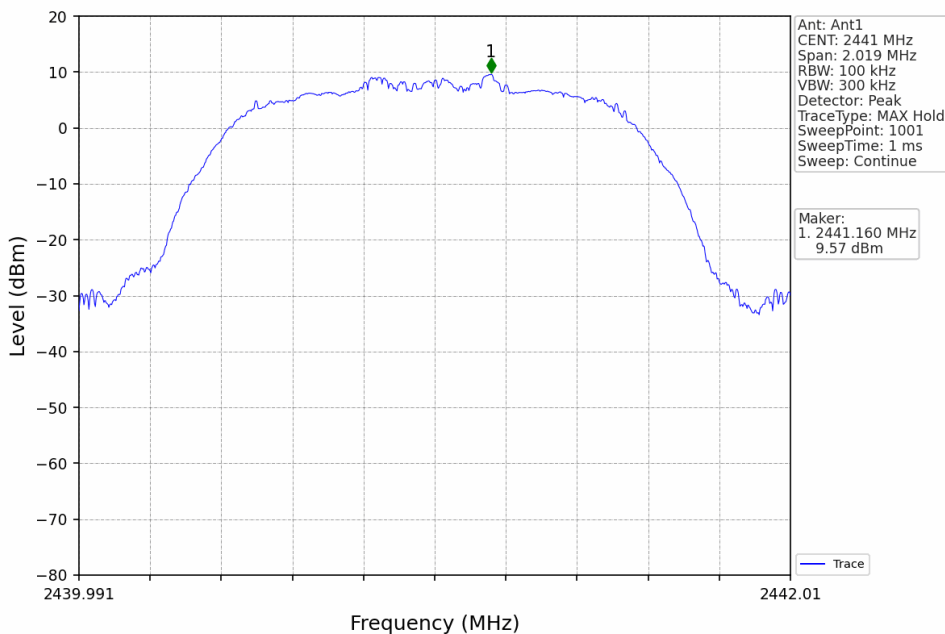
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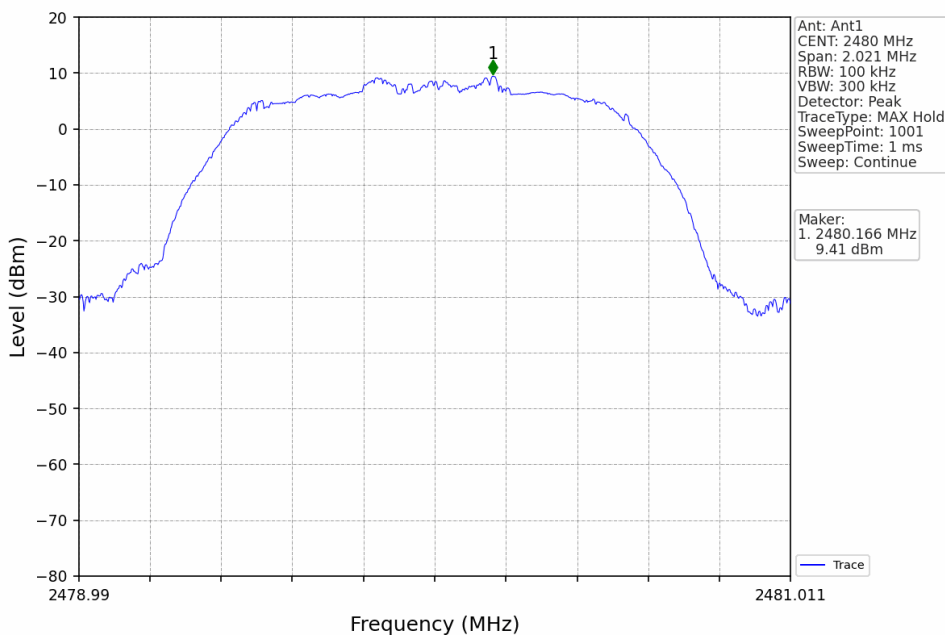
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



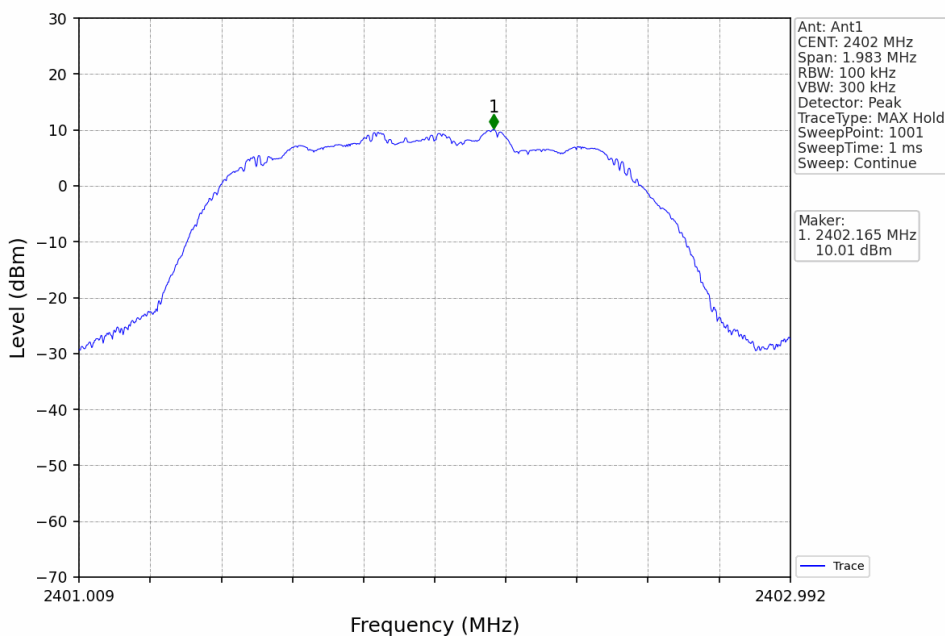
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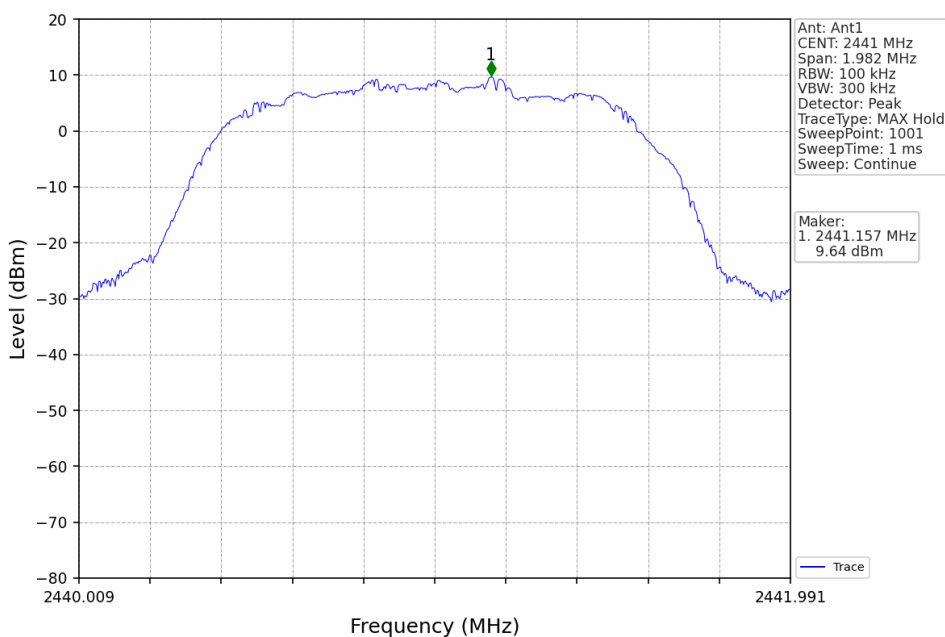
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



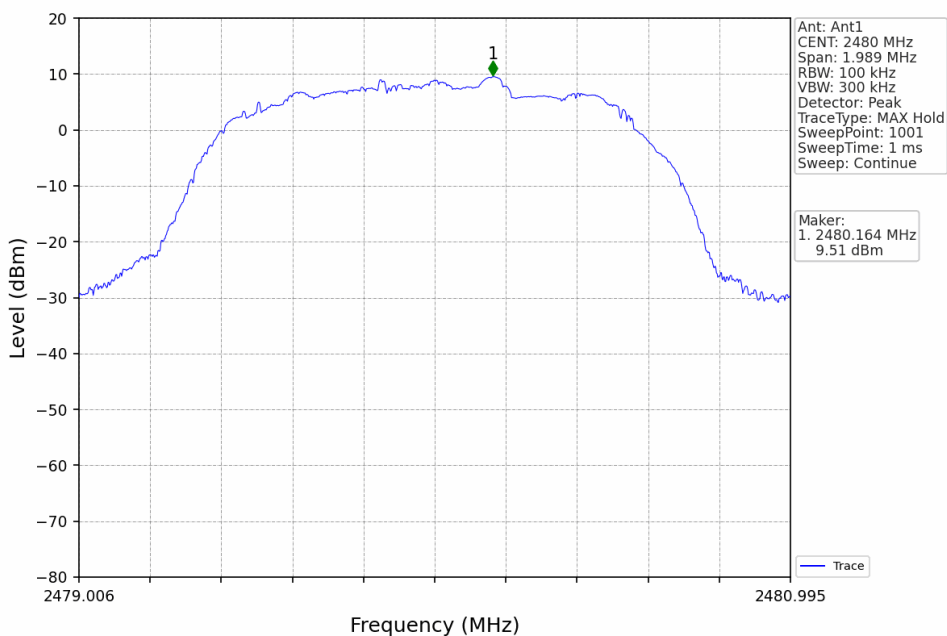
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	13.20	-6.80	Pass
		2441	DH5	1	13.20	-6.80	Pass
		2480	DH5	1	13.20	-6.80	Pass
		HOPP	DH5	1	13.20	-6.80	Pass
					13.20	-6.80	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	9.79	-10.21	Pass
		2441	2DH5	1	9.79	-10.21	Pass
		2480	2DH5	1	9.79	-10.21	Pass
		HOPP	2DH5	1	9.79	-10.21	Pass
					9.79	-10.21	Pass
8DPSK	SISO	2402	3DH5	1	10.01	-9.99	Pass
		2441	3DH5	1	10.01	-9.99	Pass
		2480	3DH5	1	10.01	-9.99	Pass
		HOPP	3DH5	1	10.01	-9.99	Pass
					10.01	-9.99	Pass



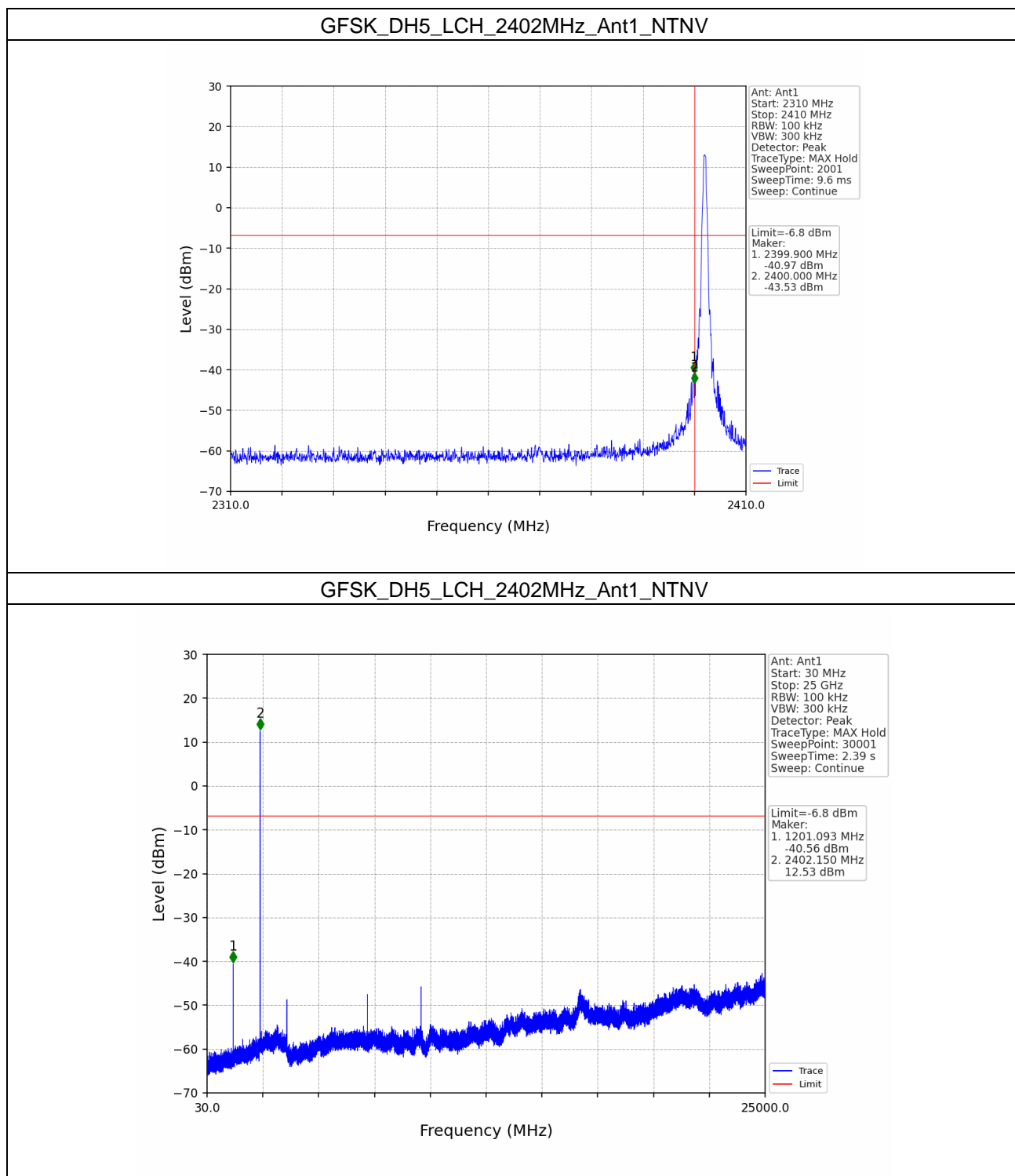
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7.2.2 Test Graph



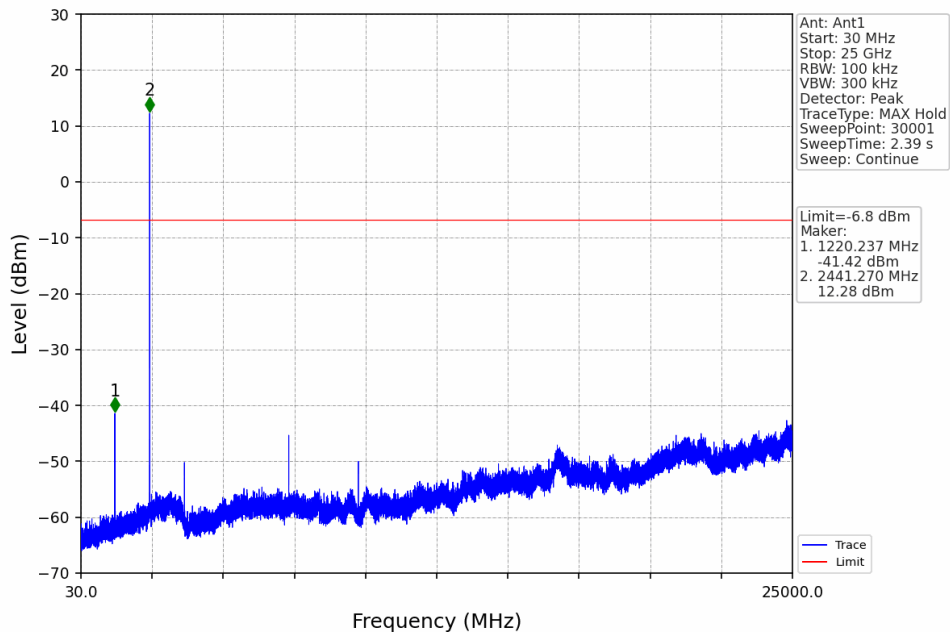
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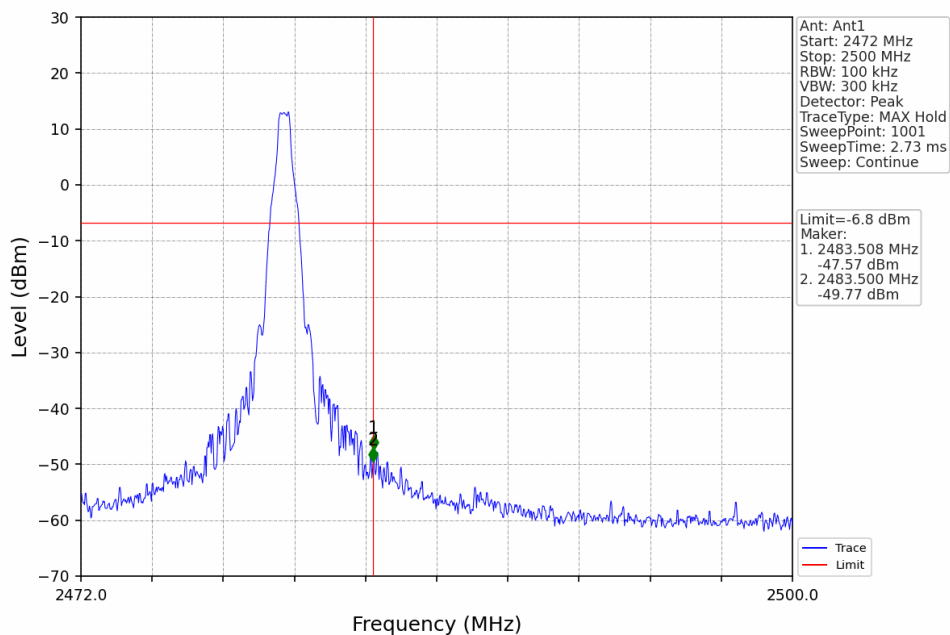
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



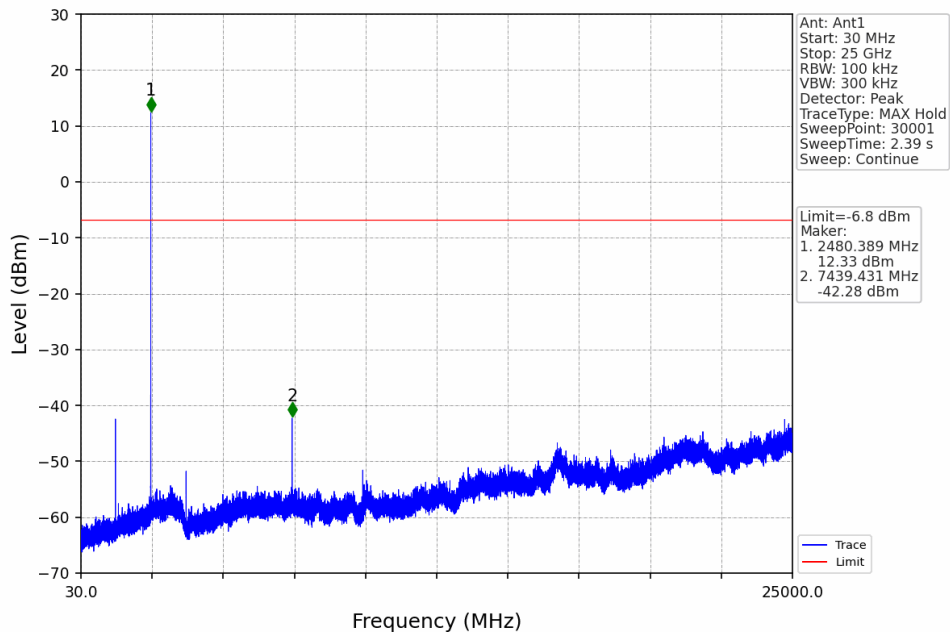
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

