

ANNEX D TEST DATA

For

Project No.:	8227EU012230W
Client:	Chengdu Hotack Technology Co., Ltd.
Product Name:	LCD PROJECTOR
Model No.:	L013
FCC ID:	2BFIZ-L013
Technology:	Bluetooth BDR&EDR
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-03-30

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Carrier Frequency Separation	Pass
Number of Hopping Frequencies	Pass
Time of Occupancy (Dwell Time)	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass

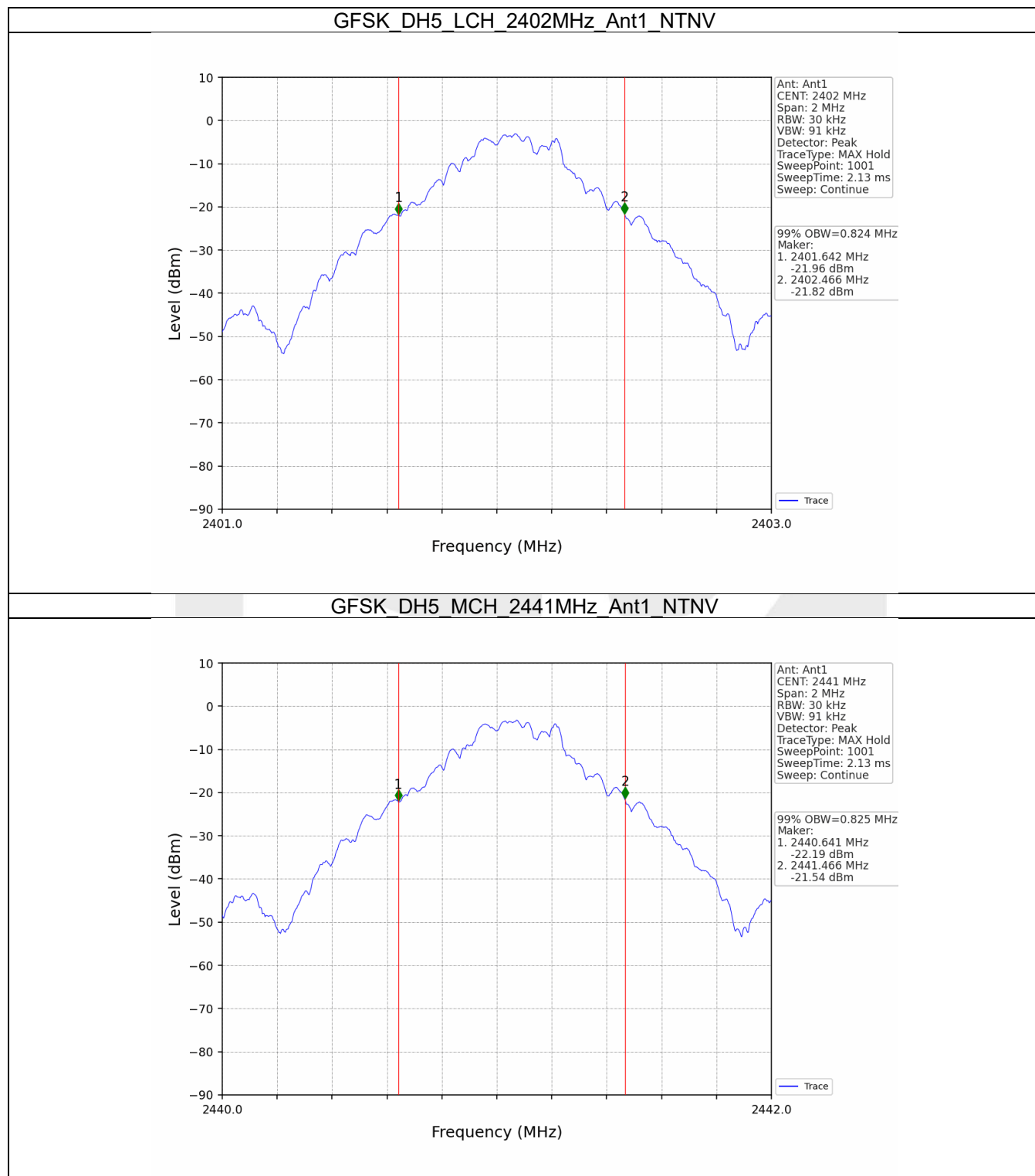
1. Bandwidth

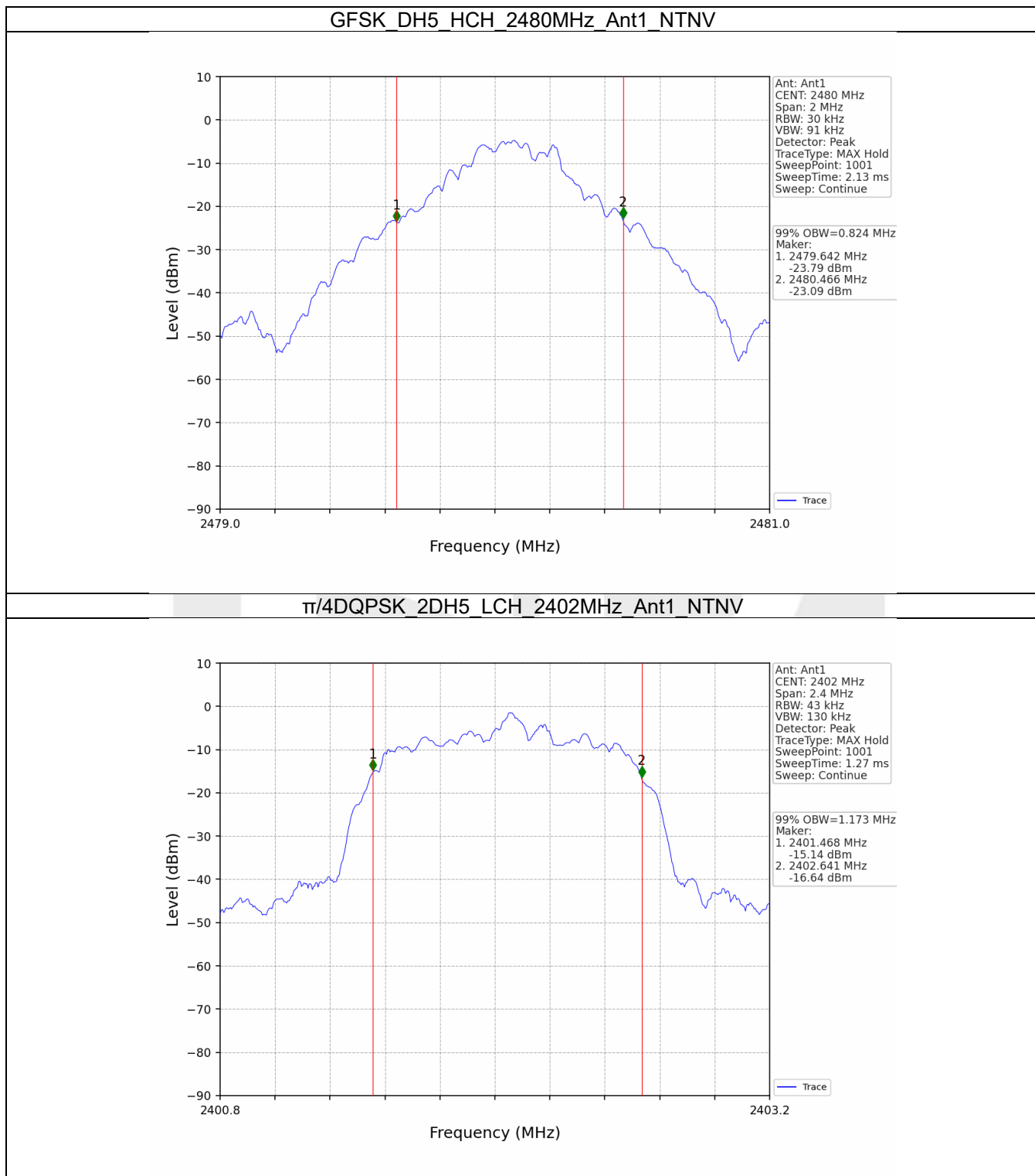
1.1 OBW

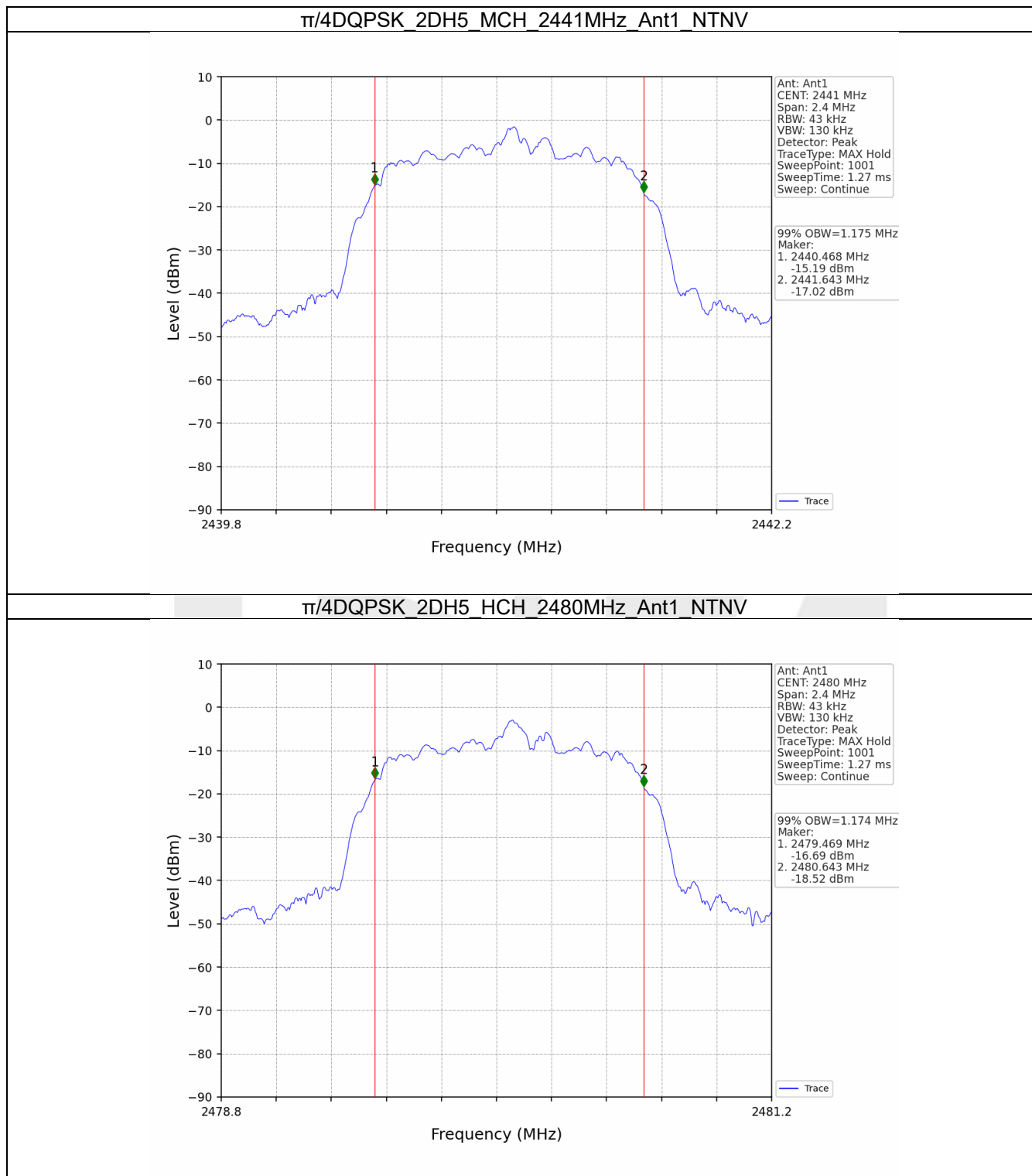
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.824	Pass
		2441	DH5	1	0.825	Pass
		2480	DH5	1	0.824	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.173	Pass
		2441	2DH5	1	1.175	Pass
		2480	2DH5	1	1.174	Pass

1.1.2 Test Graph





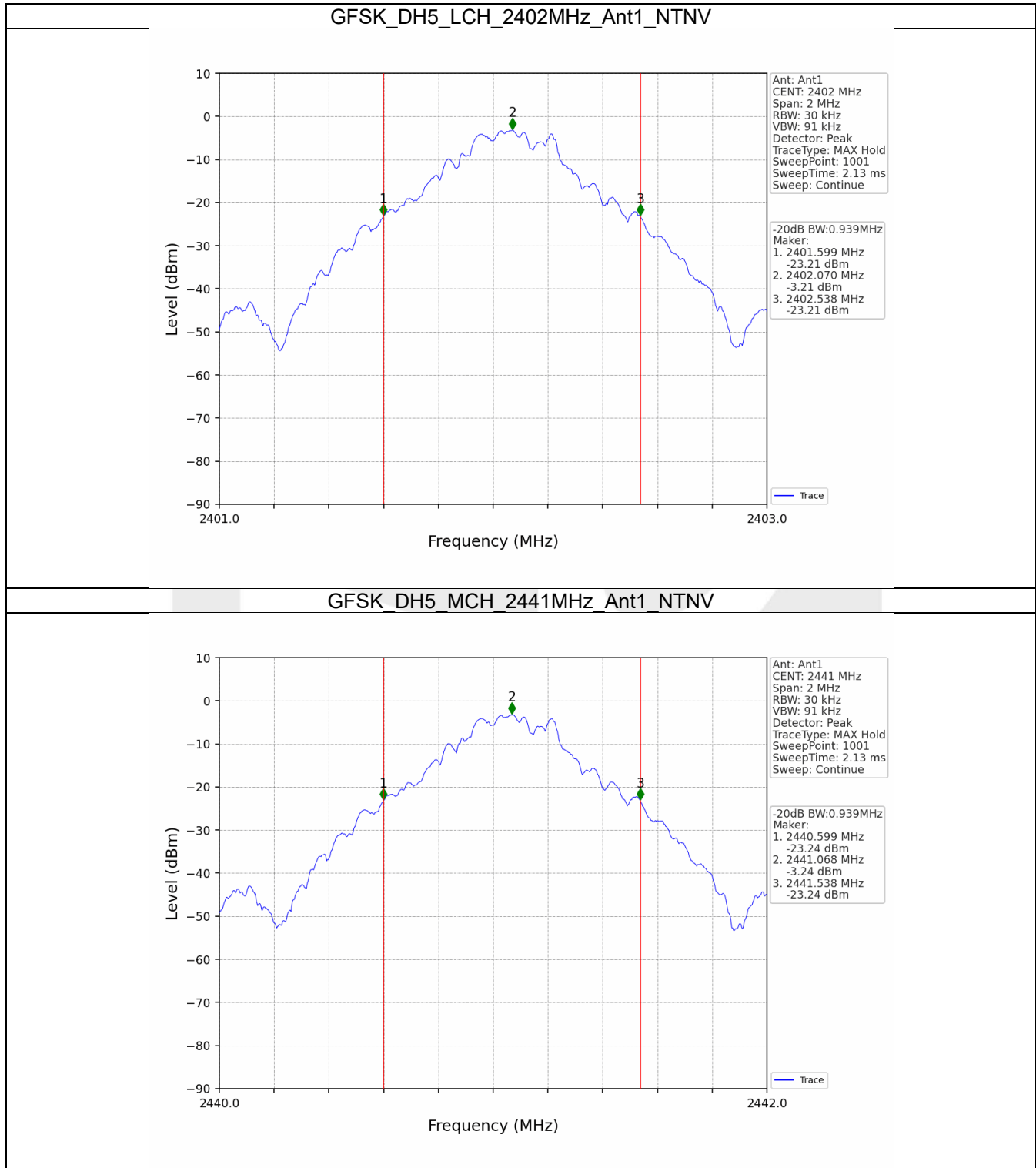


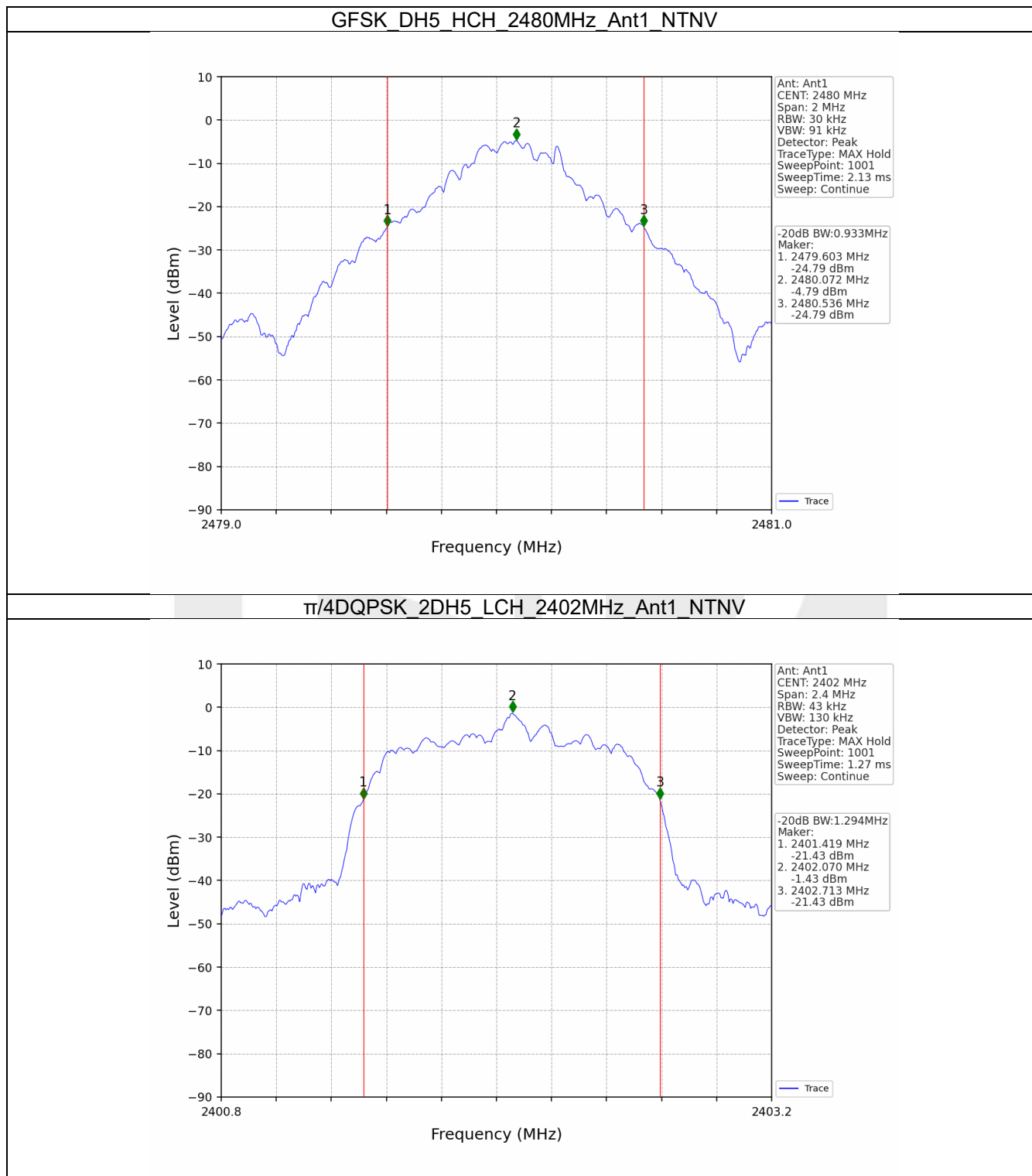
1.2 20dB BW

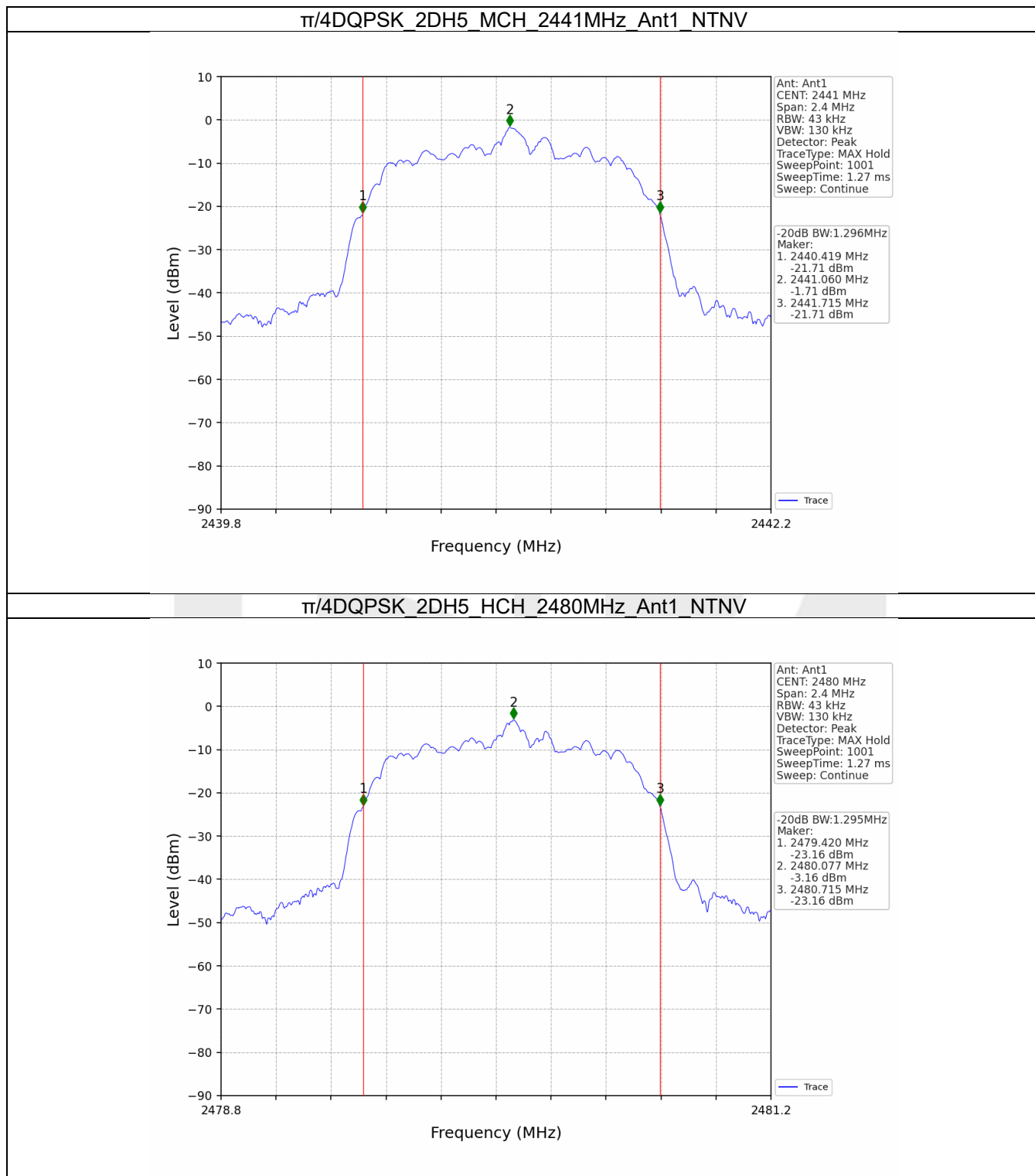
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.939	Pass
		2441	DH5	1	0.939	Pass
		2480	DH5	1	0.933	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.294	Pass
		2441	2DH5	1	1.296	Pass
		2480	2DH5	1	1.295	Pass

1.2.2 Test Graph







2. Maximum Conducted Output Power

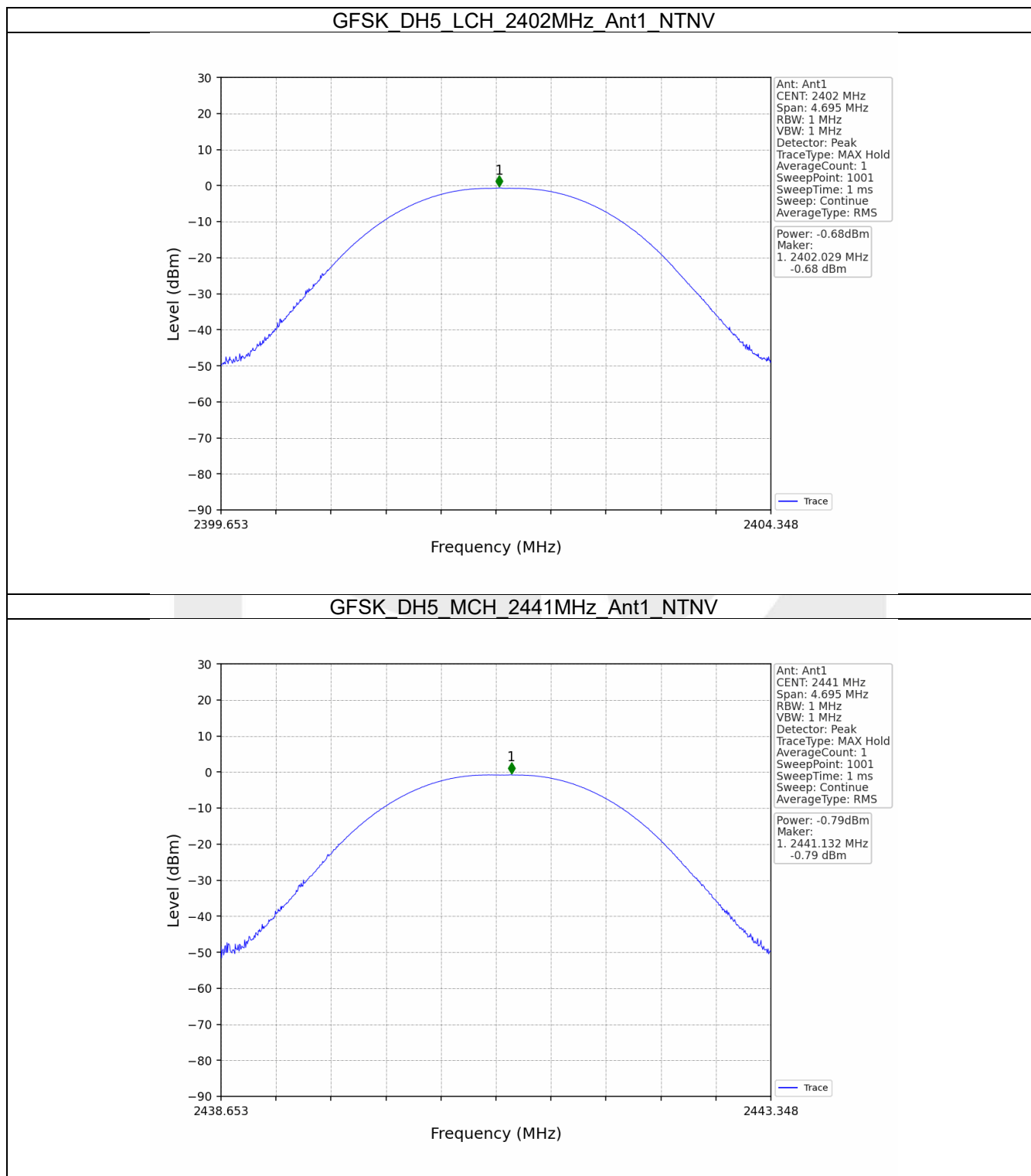
2.1 Power

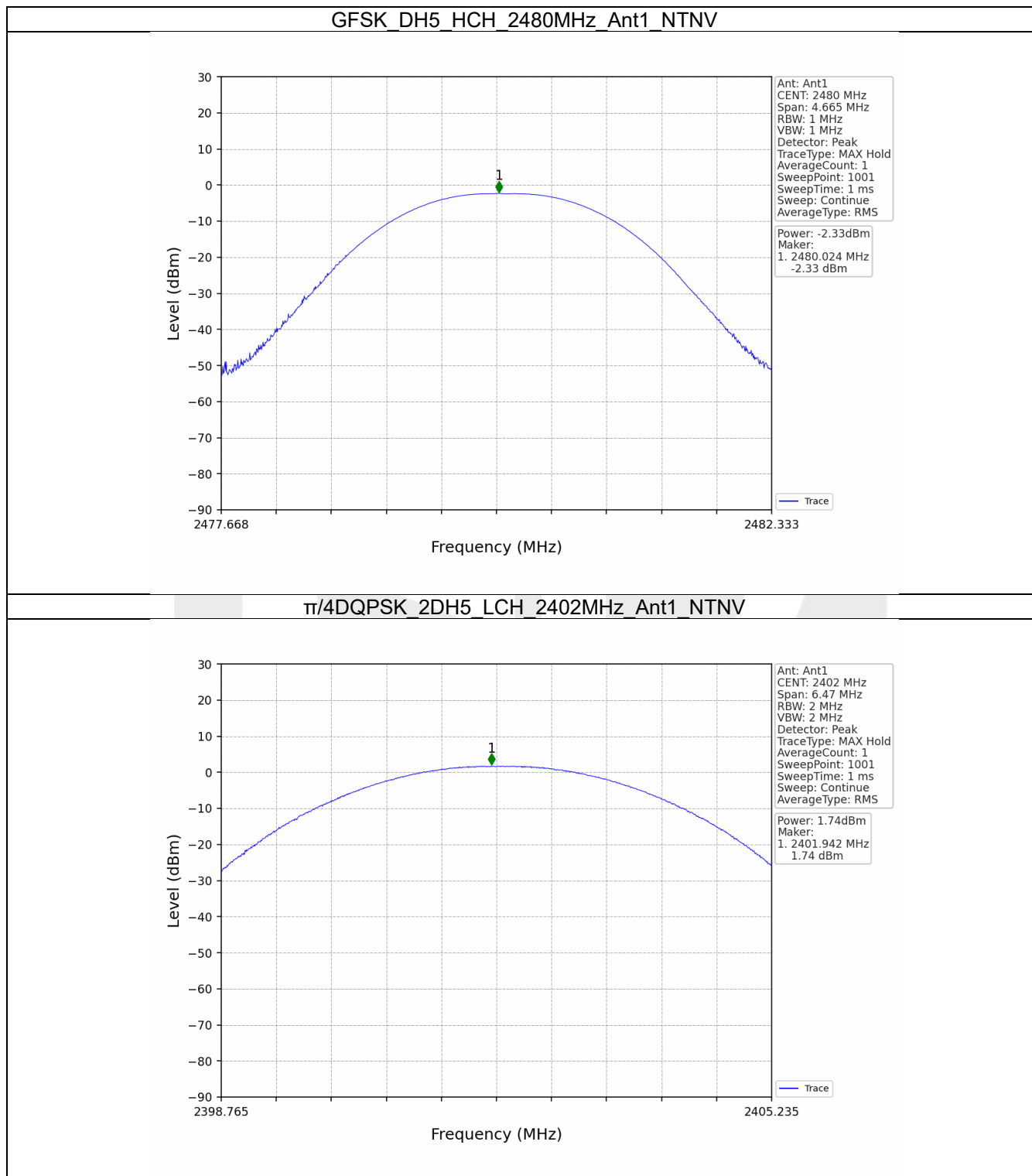
2.1.1 Test Result

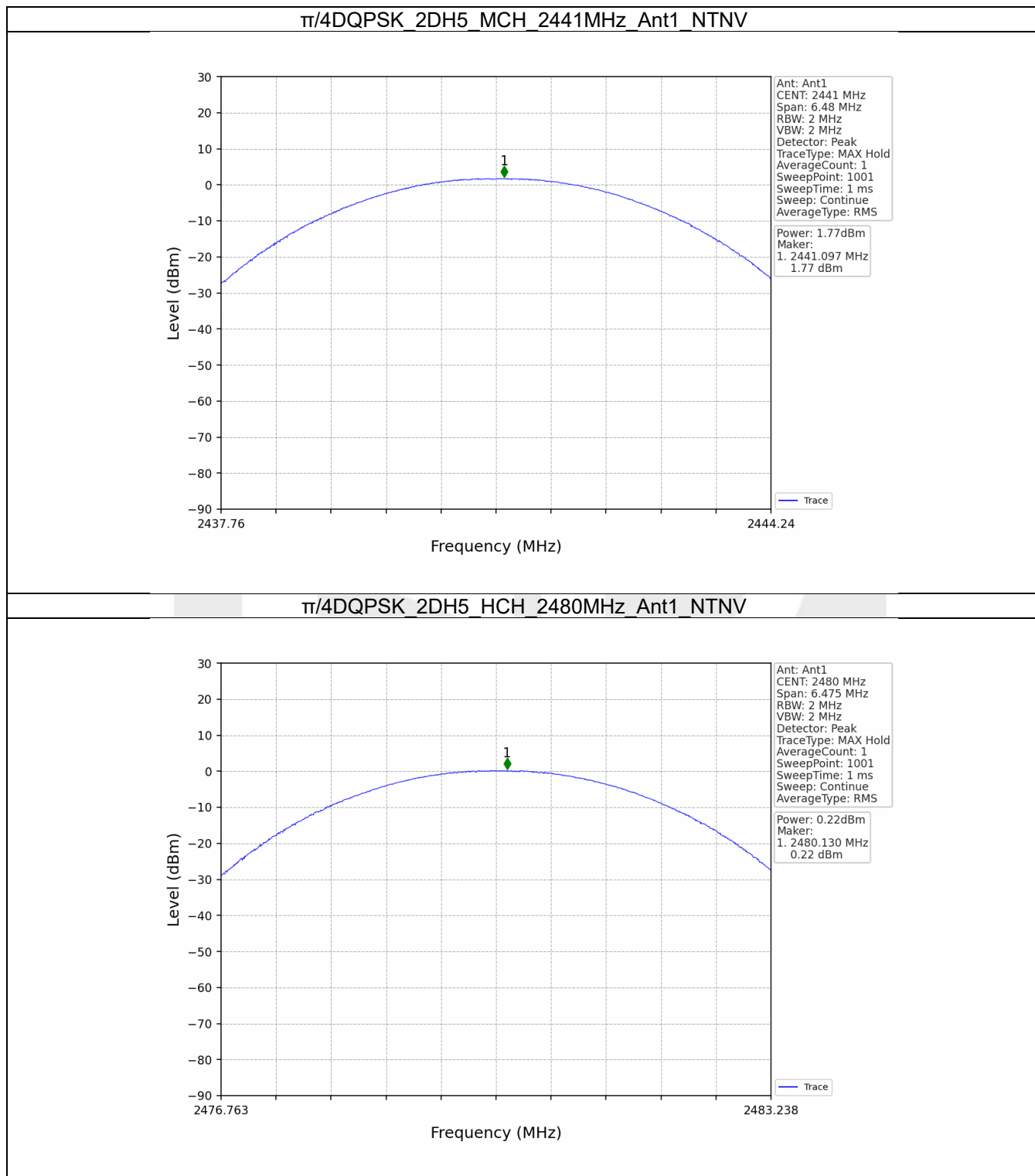
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-0.68	≤ 30	Pass
		2441	DH5	-0.79	≤ 30	Pass
		2480	DH5	-2.33	≤ 30	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1.74	≤ 20.97	Pass
		2441	2DH5	1.77	≤ 20.97	Pass
		2480	2DH5	0.22	≤ 20.97	Pass

Note1: Antenna Gain: Ant1: 2.56dBi;

2.1.2 Test Graph







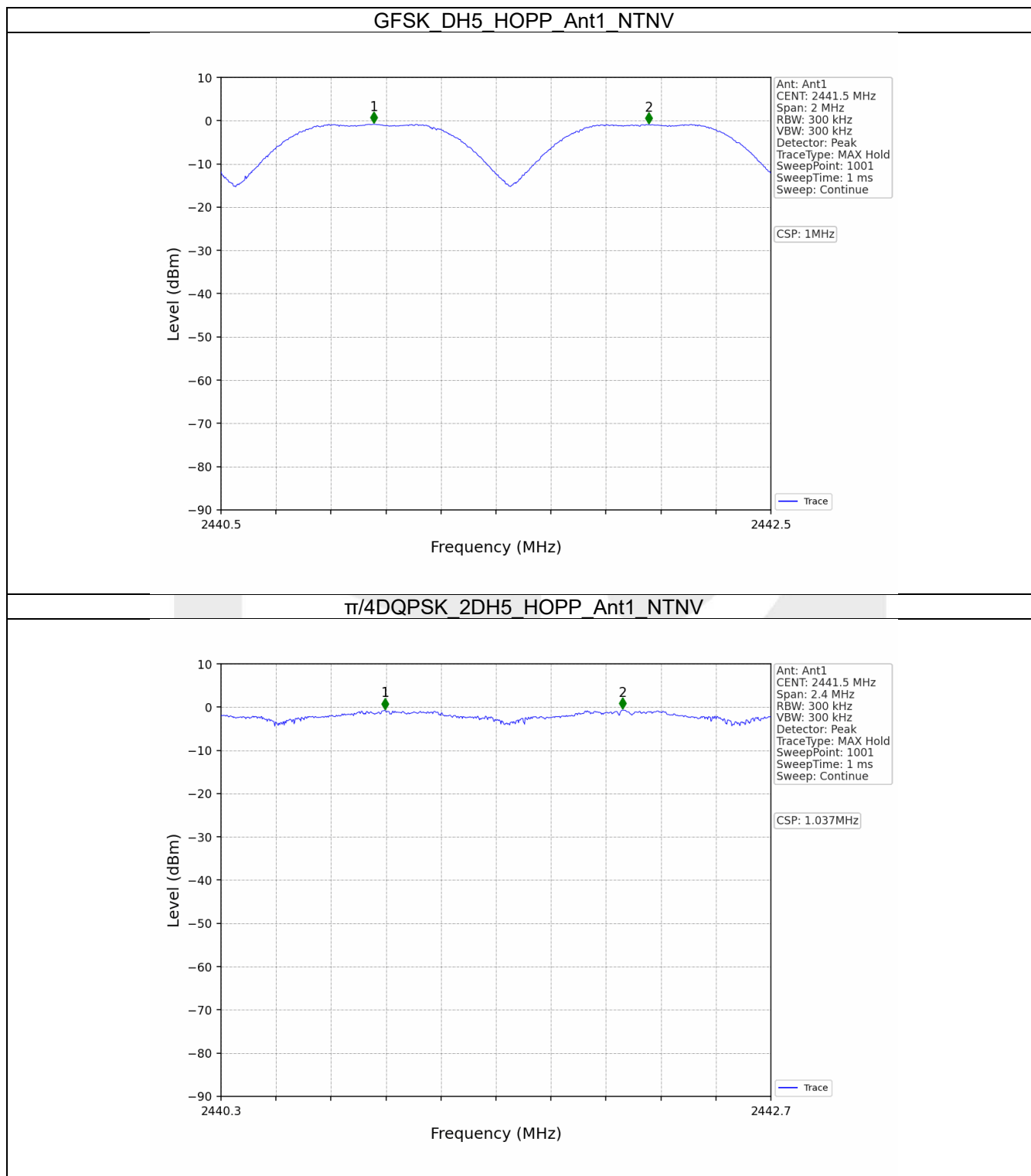
3. Carrier Frequency Separation

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	0.939	≥ 0.939	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH5	1.037	1.296	≥ 0.864	Pass

3.1.2 Test Graph



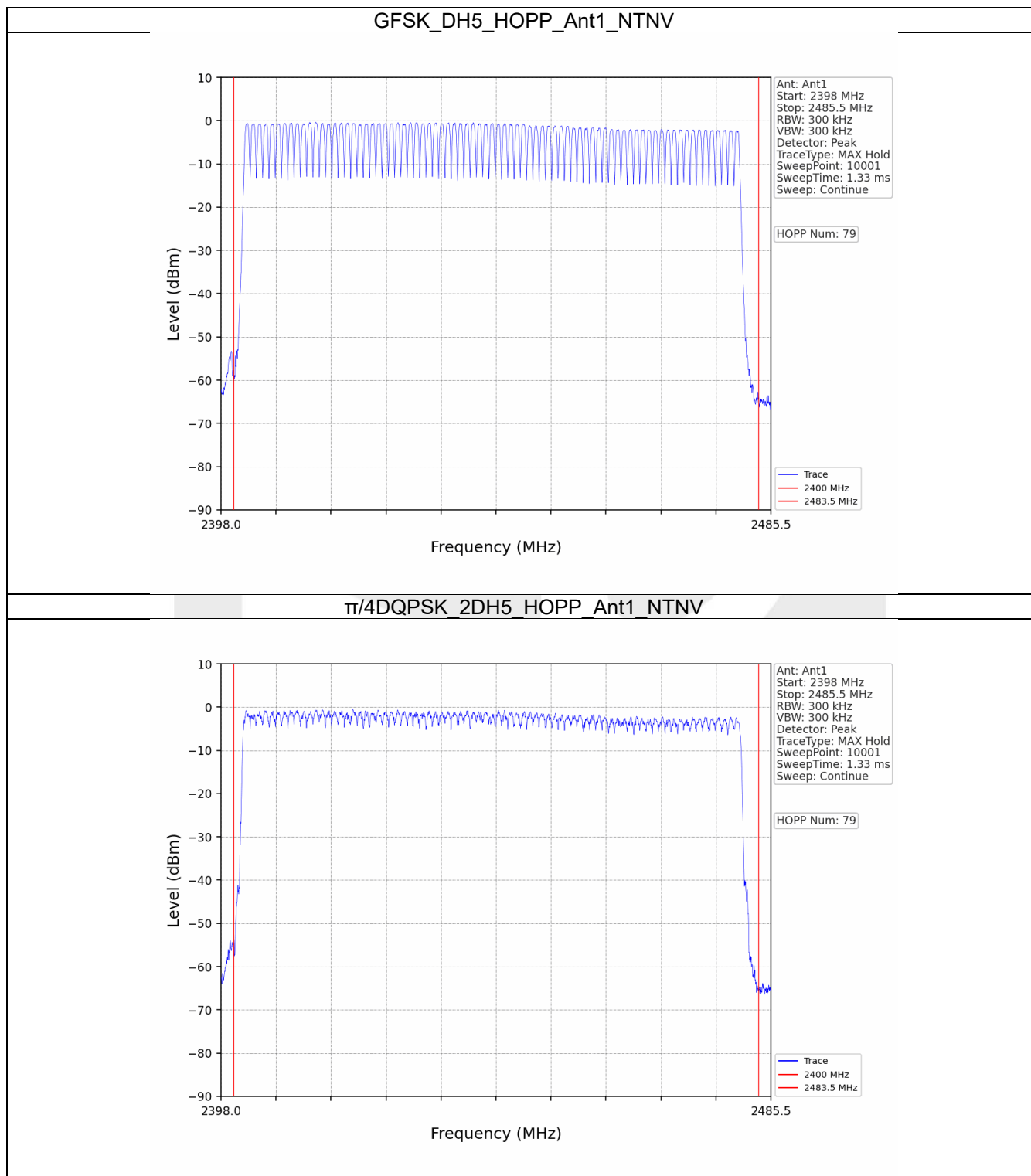
4. Number of Hopping Frequencies

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
$\pi/4$ DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass

4.1.2 Test Graph



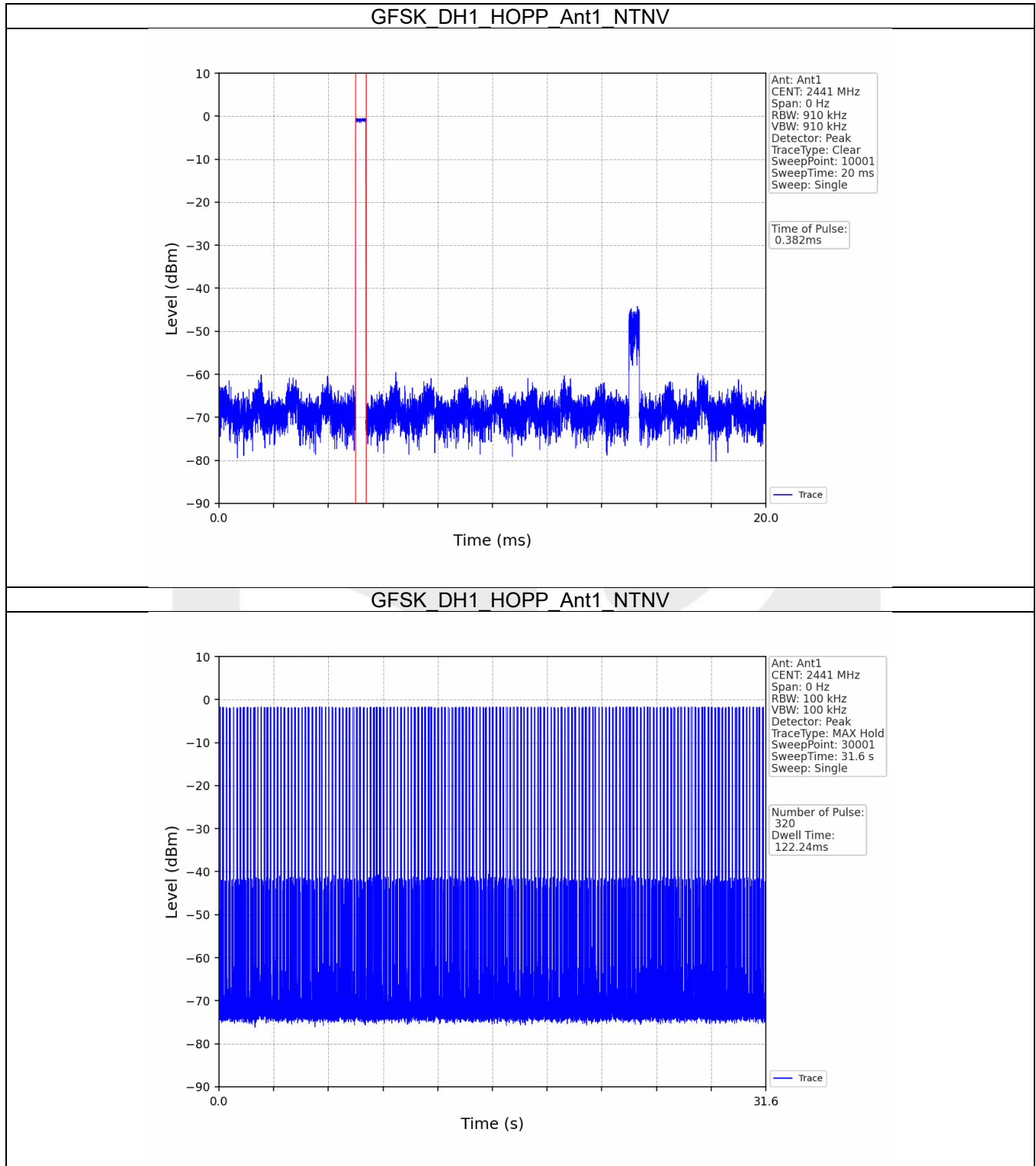
5. Time of Occupancy (Dwell Time)

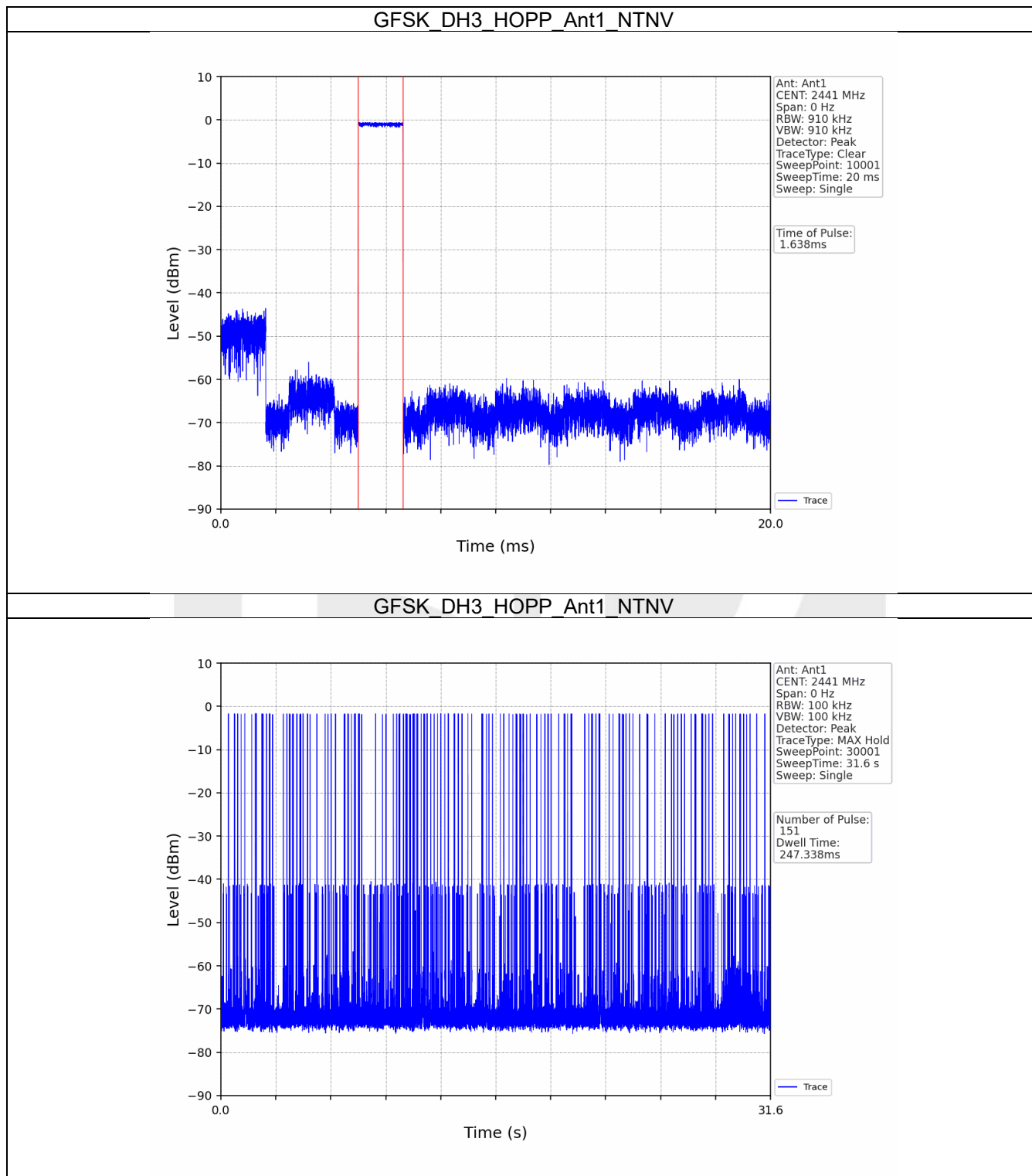
5.1 Ant1

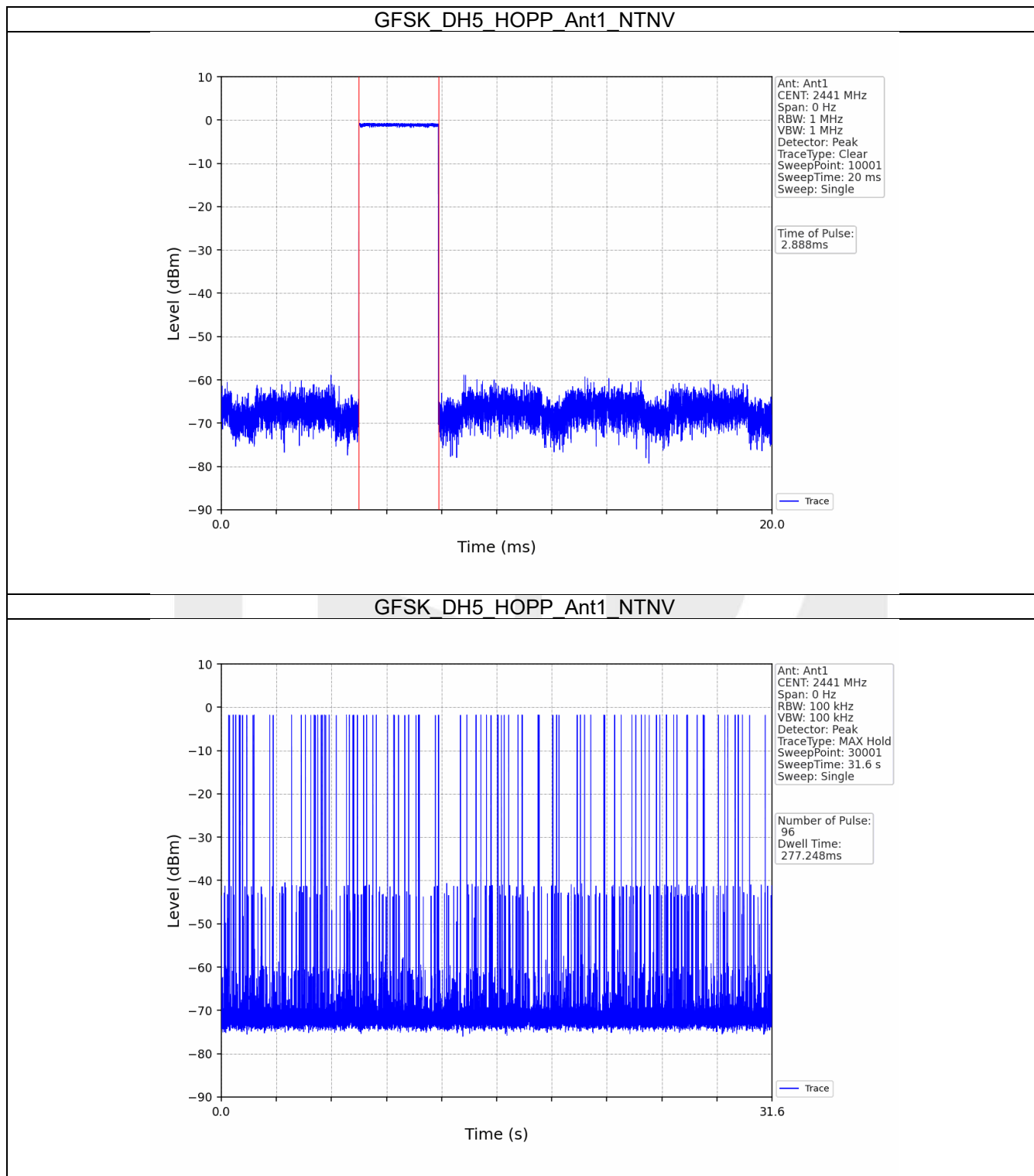
5.1.1 Test Result

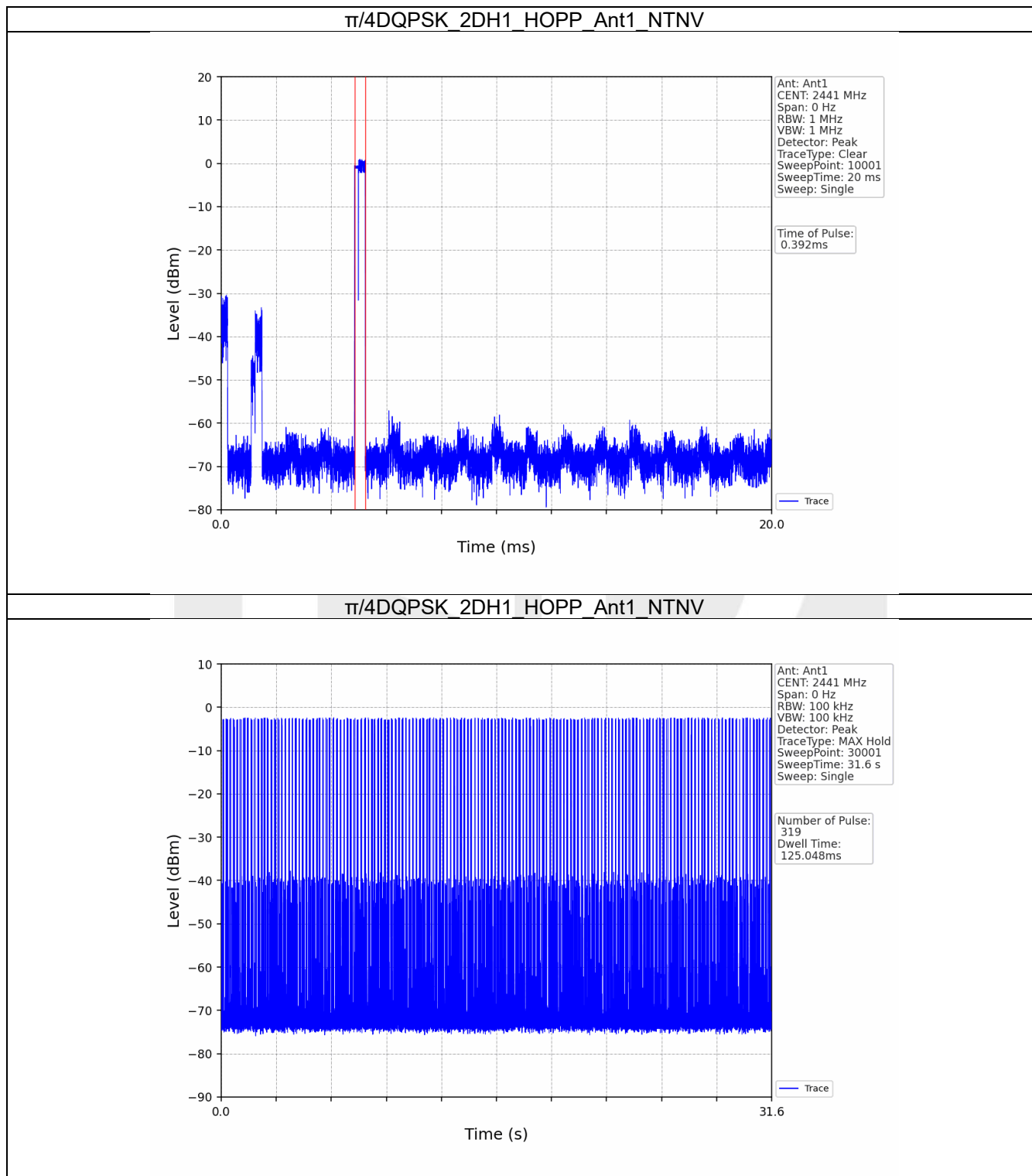
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.382	31.600	320	122.240	<=400	Pass
			DH3	1.638	31.600	151	247.338	<=400	Pass
			DH5	2.888	31.600	96	277.248	<=400	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH1	0.392	31.600	319	125.048	<=400	Pass
			2DH3	1.650	31.600	164	270.600	<=400	Pass
			2DH5	2.896	31.600	105	304.080	<=400	Pass

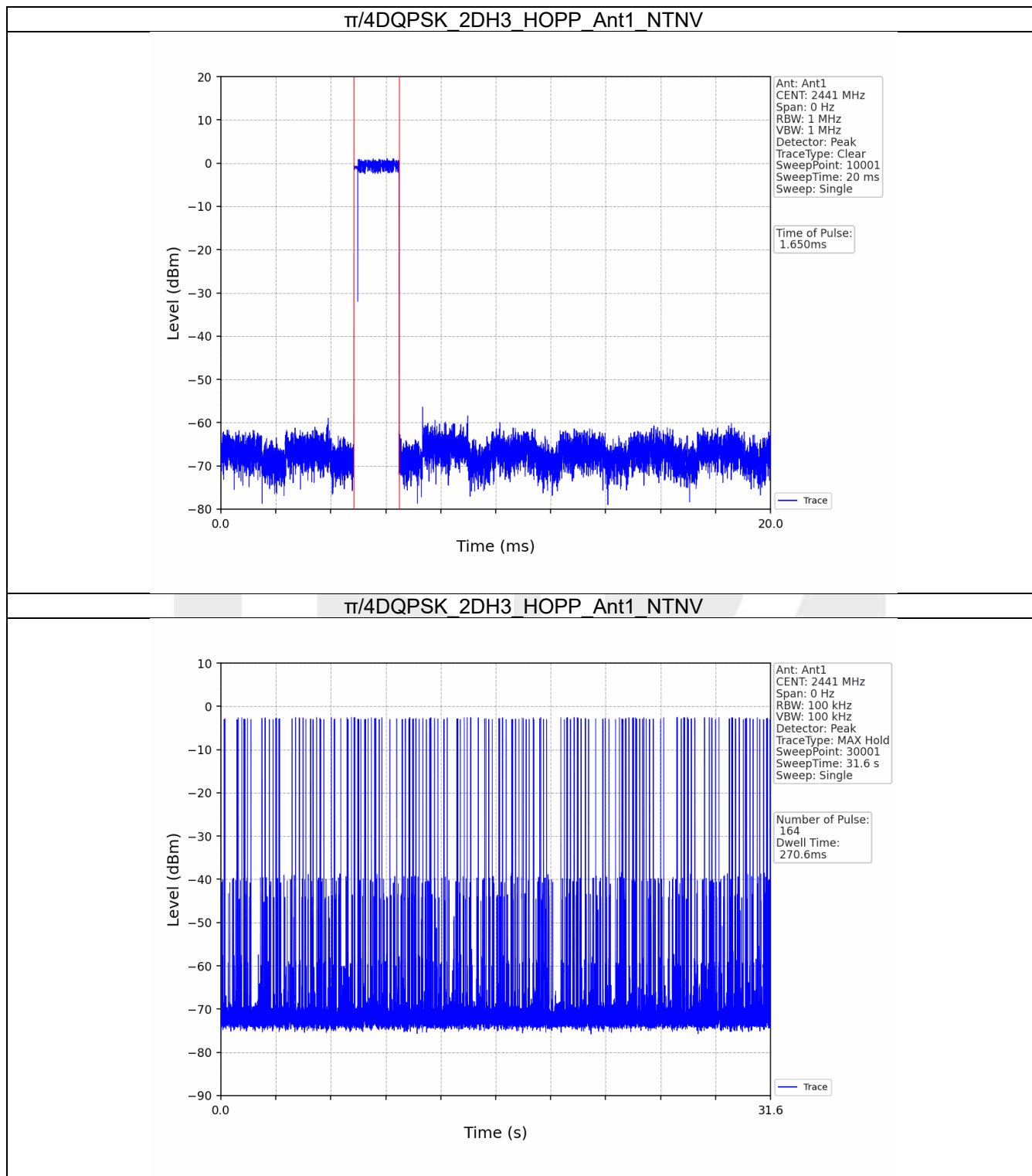
5.1.2 Test Graph

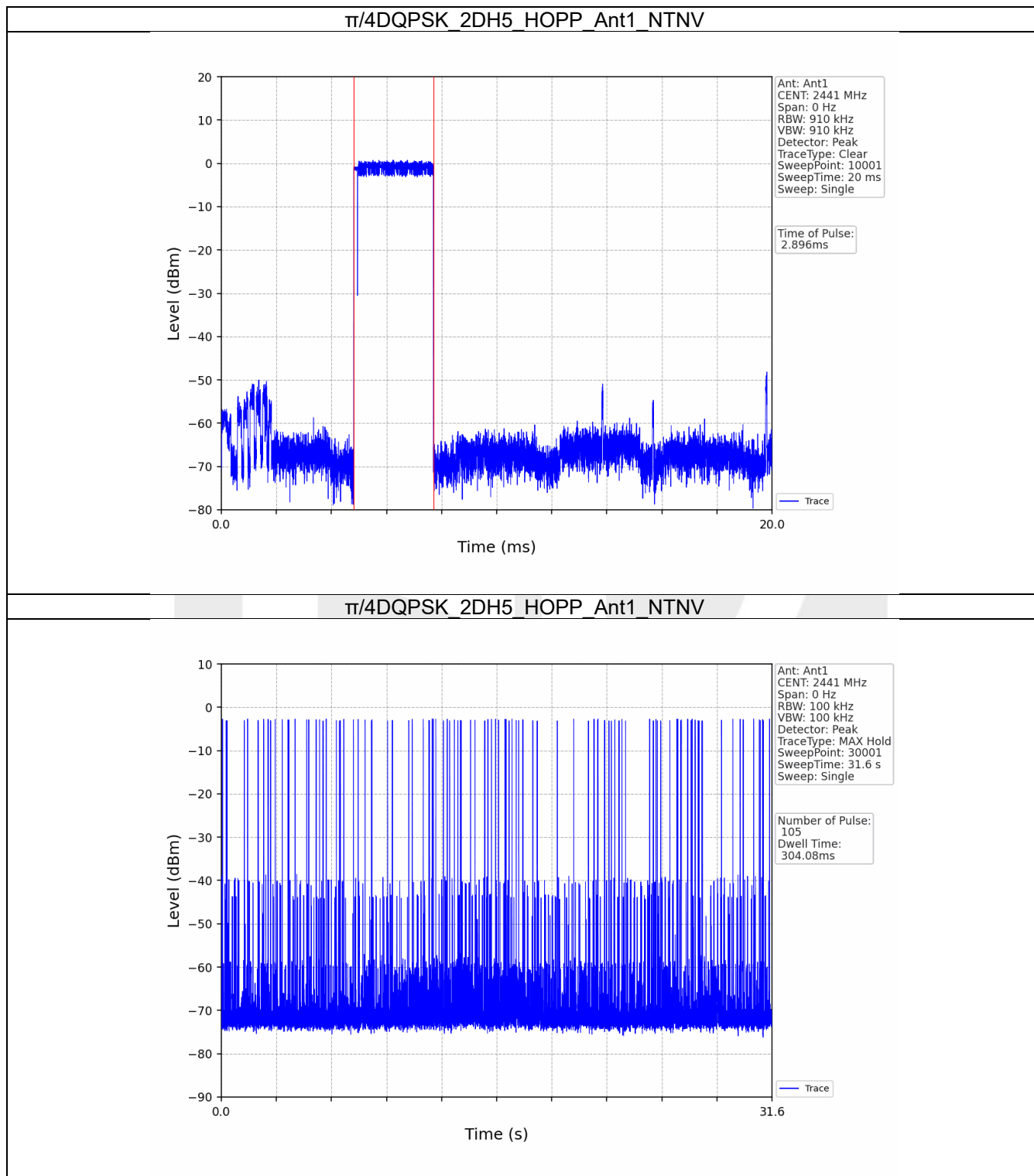












6. Unwanted Emissions In Non-restricted Frequency Bands

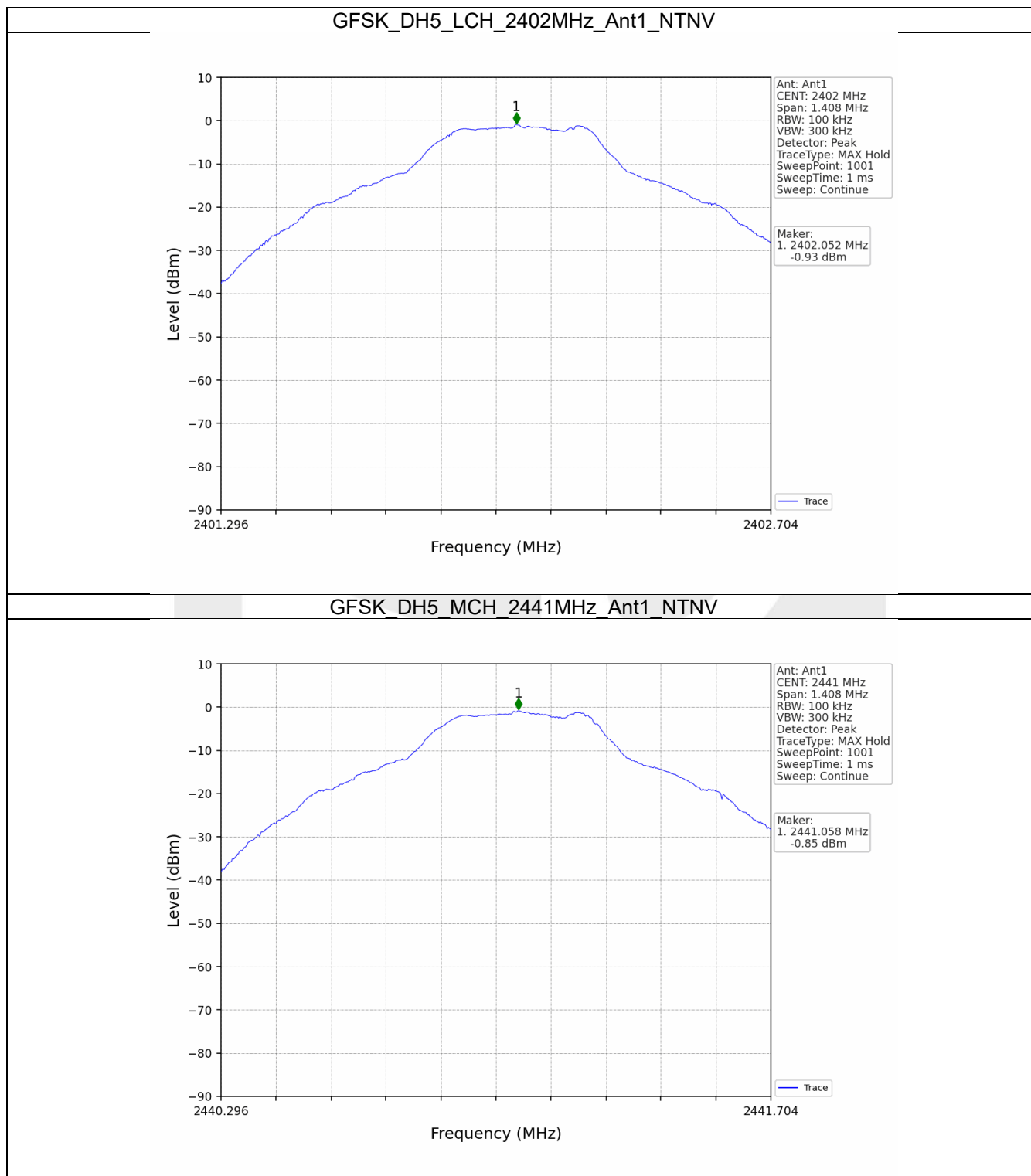
6.1 Ref

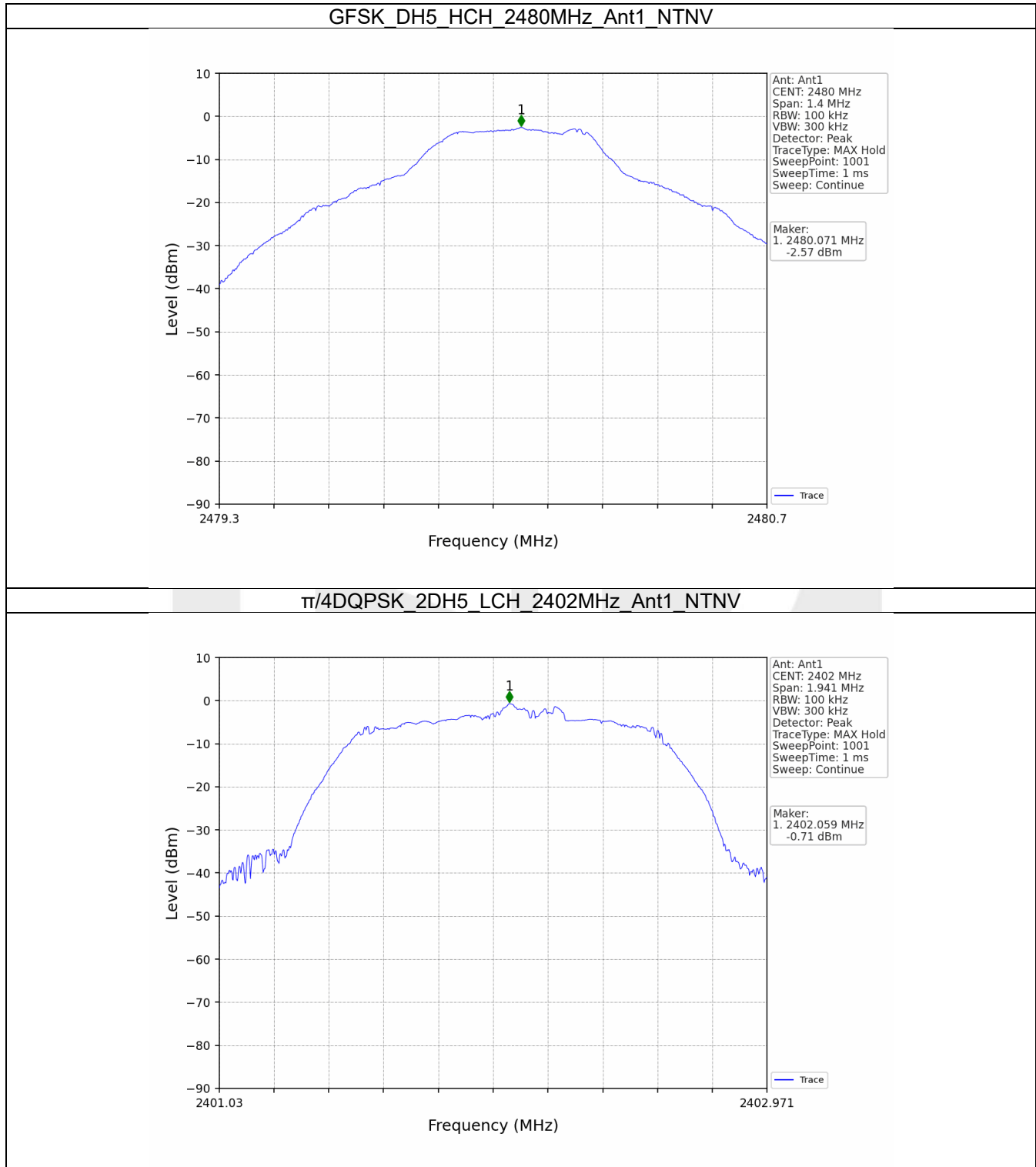
6.1.1 Test Result

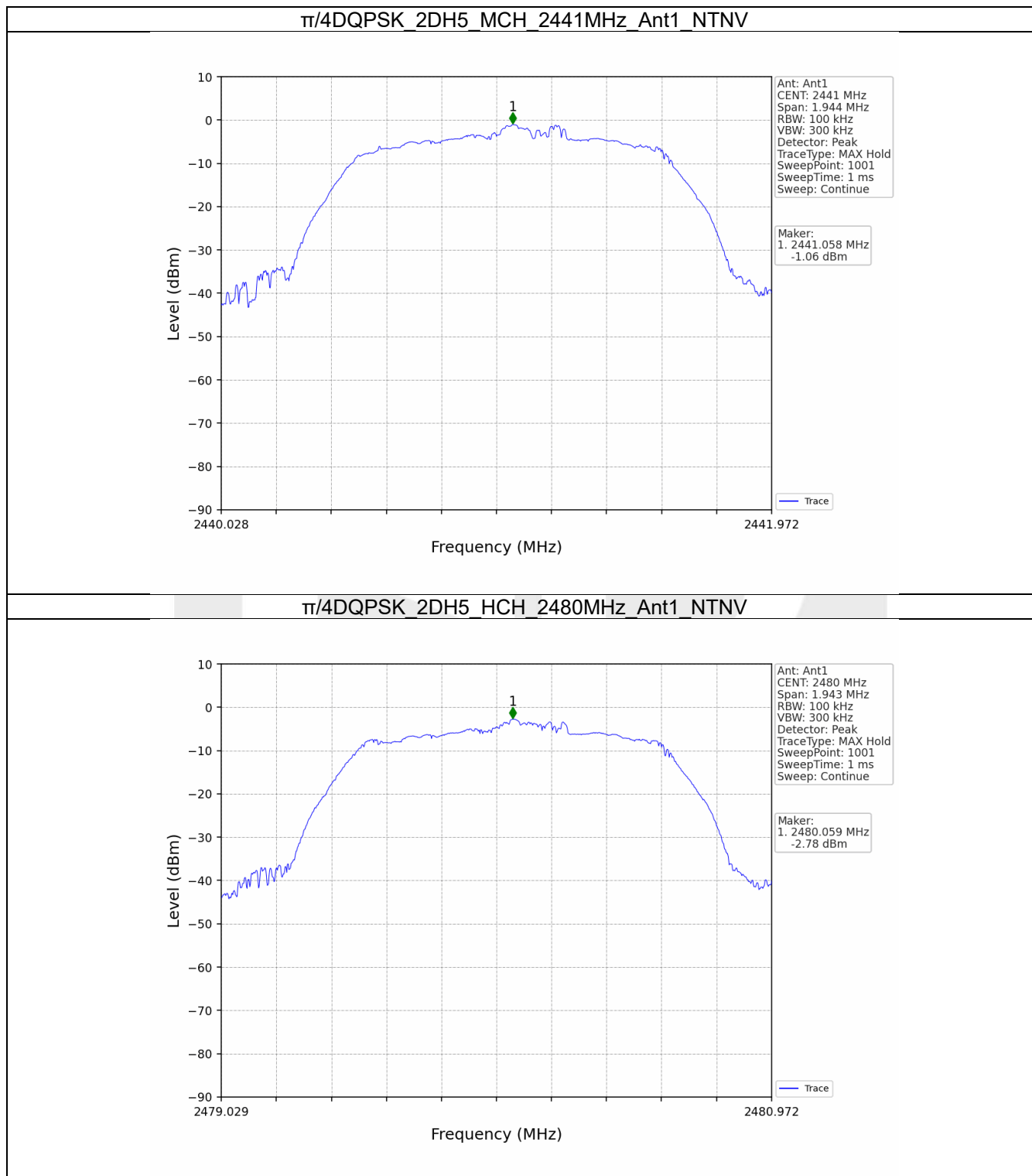
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.93
		2441	DH5	1	-0.85
		2480	DH5	1	-2.57
$\pi/4$ DQPSK	SISO	2402	2DH5	1	-0.71
		2441	2DH5	1	-1.06
		2480	2DH5	1	-2.78

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

6.1.2 Test Graph





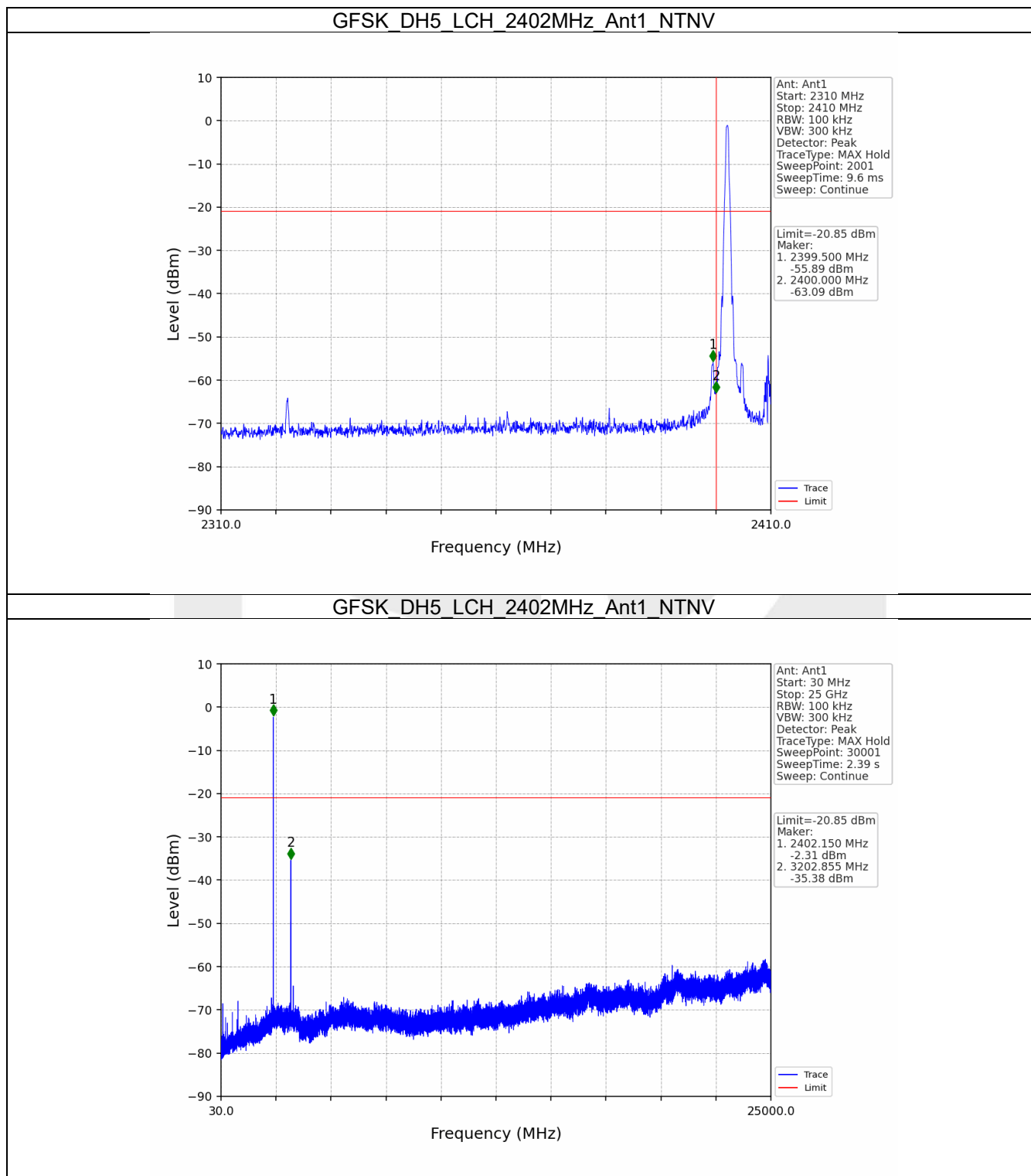


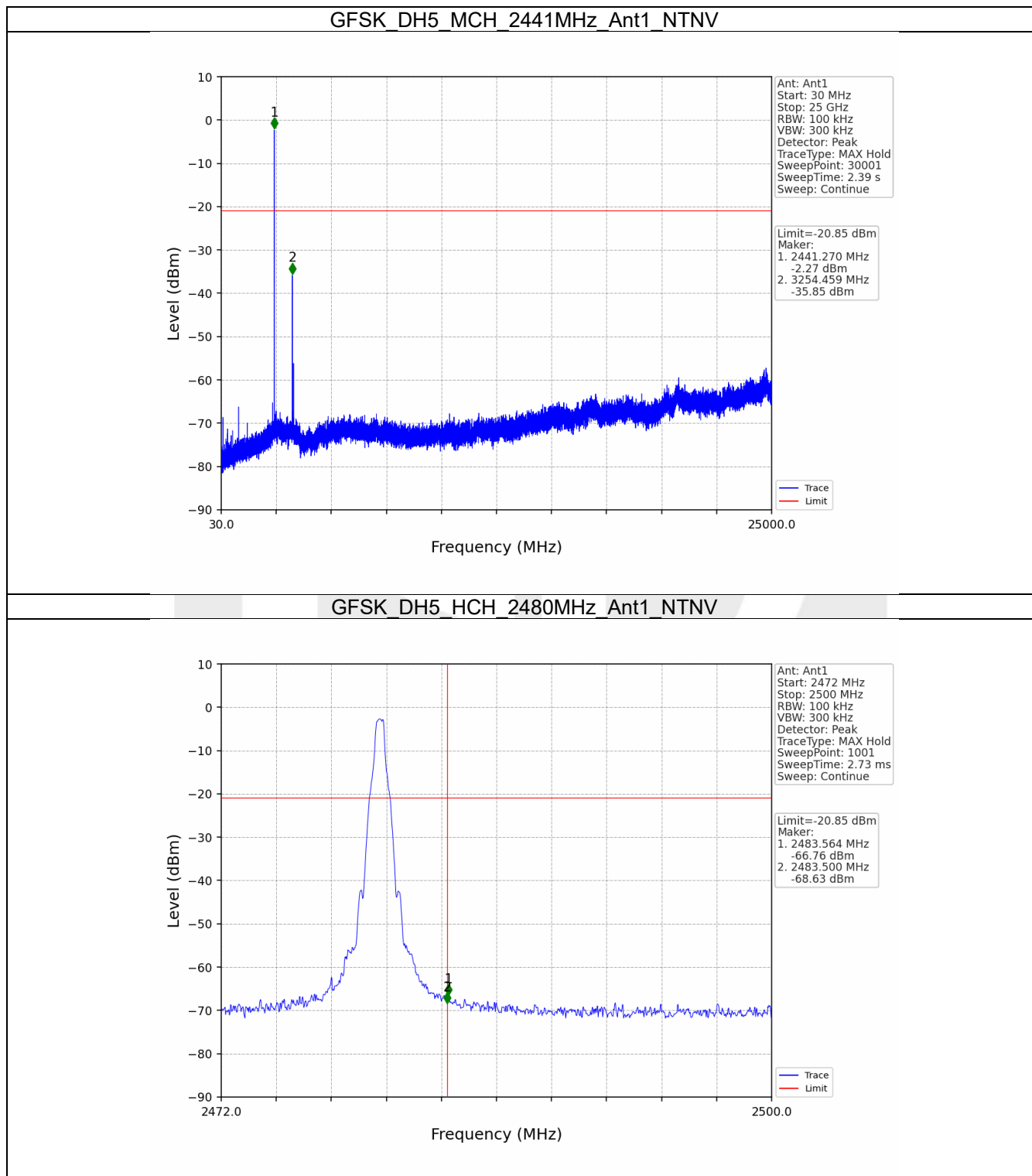
6.2 CSE

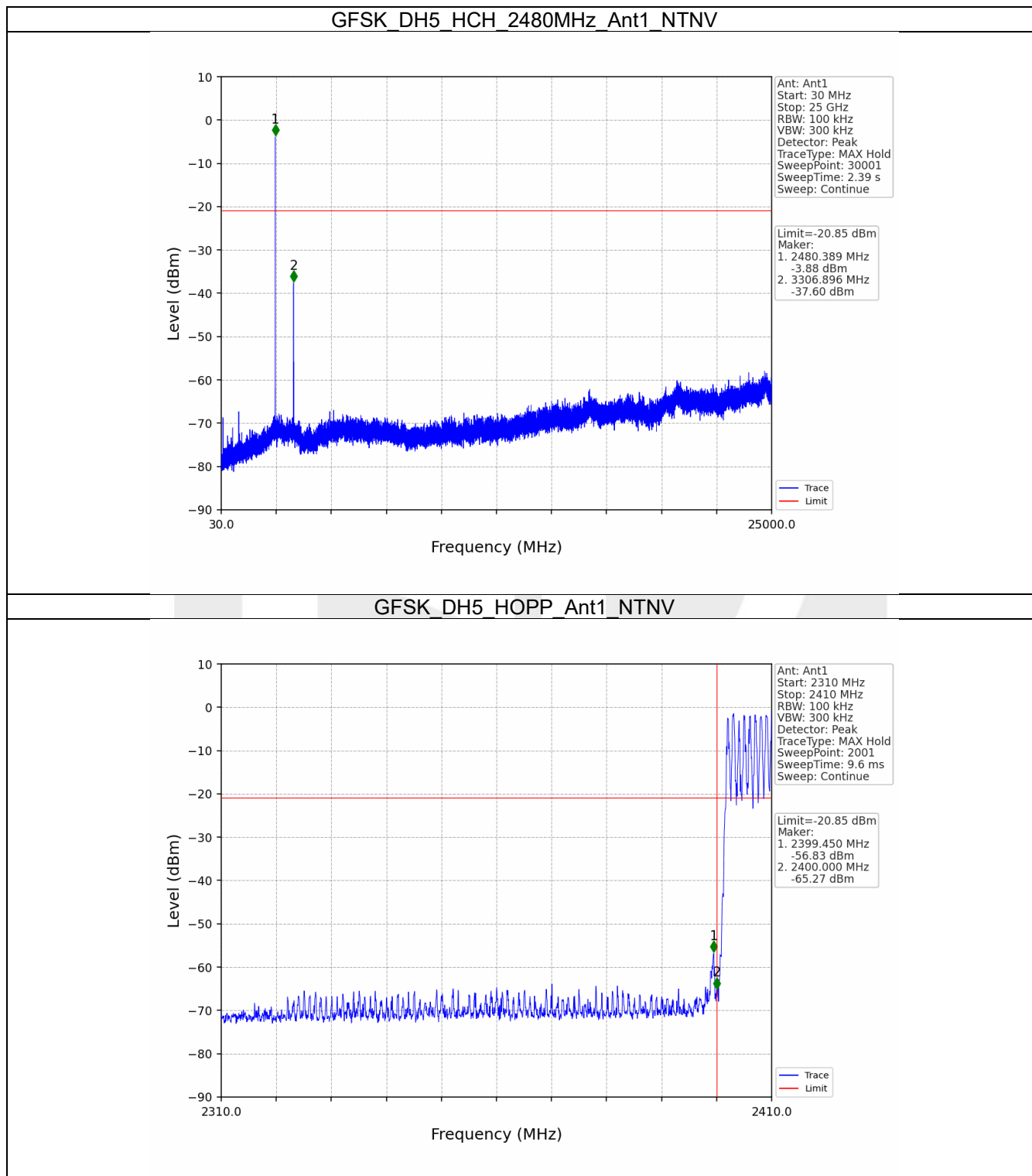
6.2.1 Test Result

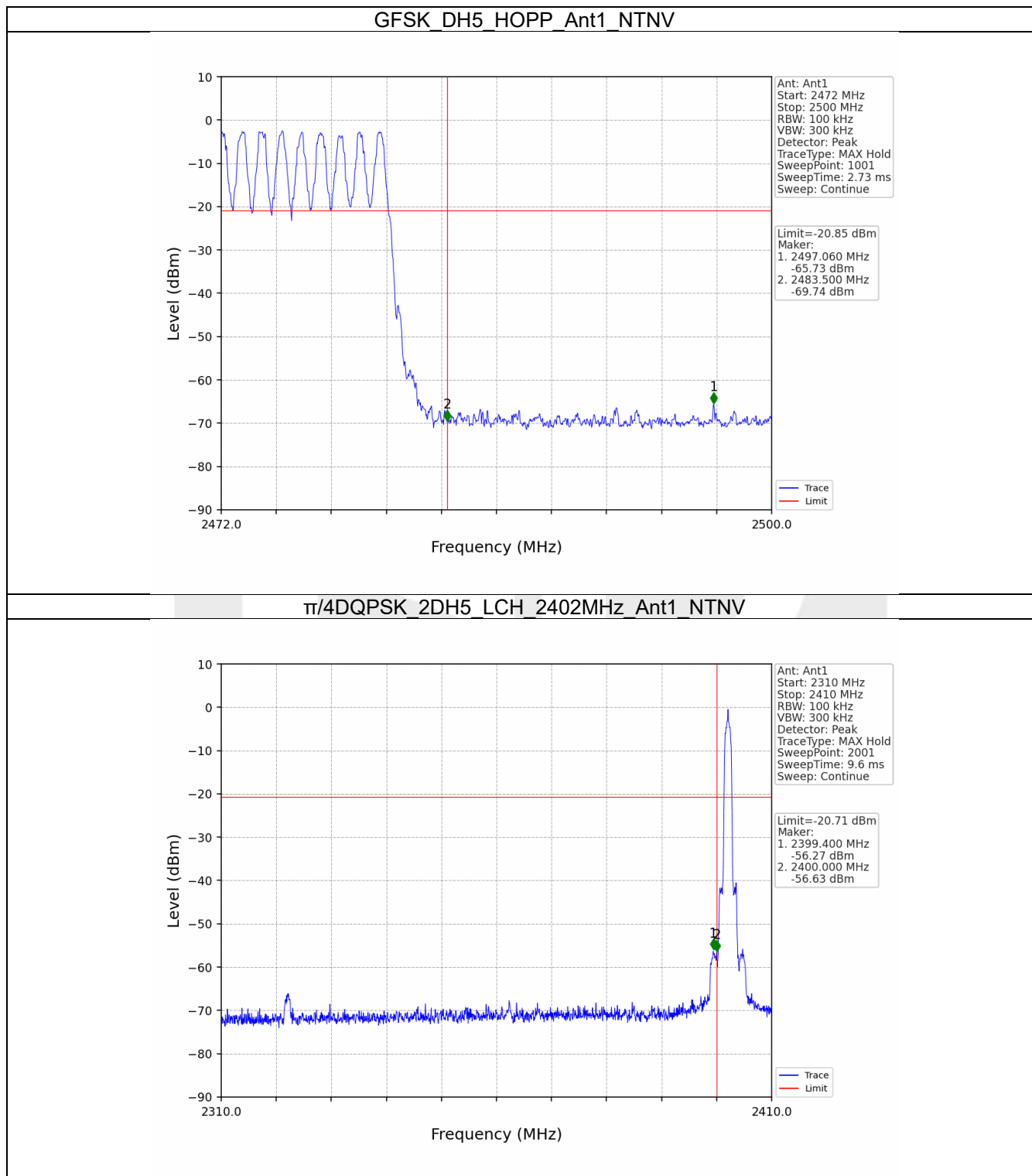
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.85	-20.85	Pass
		2441	DH5	1	-0.85	-20.85	Pass
		2480	DH5	1	-0.85	-20.85	Pass
		HOPP	DH5	1	-0.85	-20.85	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	-0.71	-20.71	Pass
		2441	2DH5	1	-0.71	-20.71	Pass
		2480	2DH5	1	-0.71	-20.71	Pass
		HOPP	2DH5	1	-0.71	-20.71	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.							

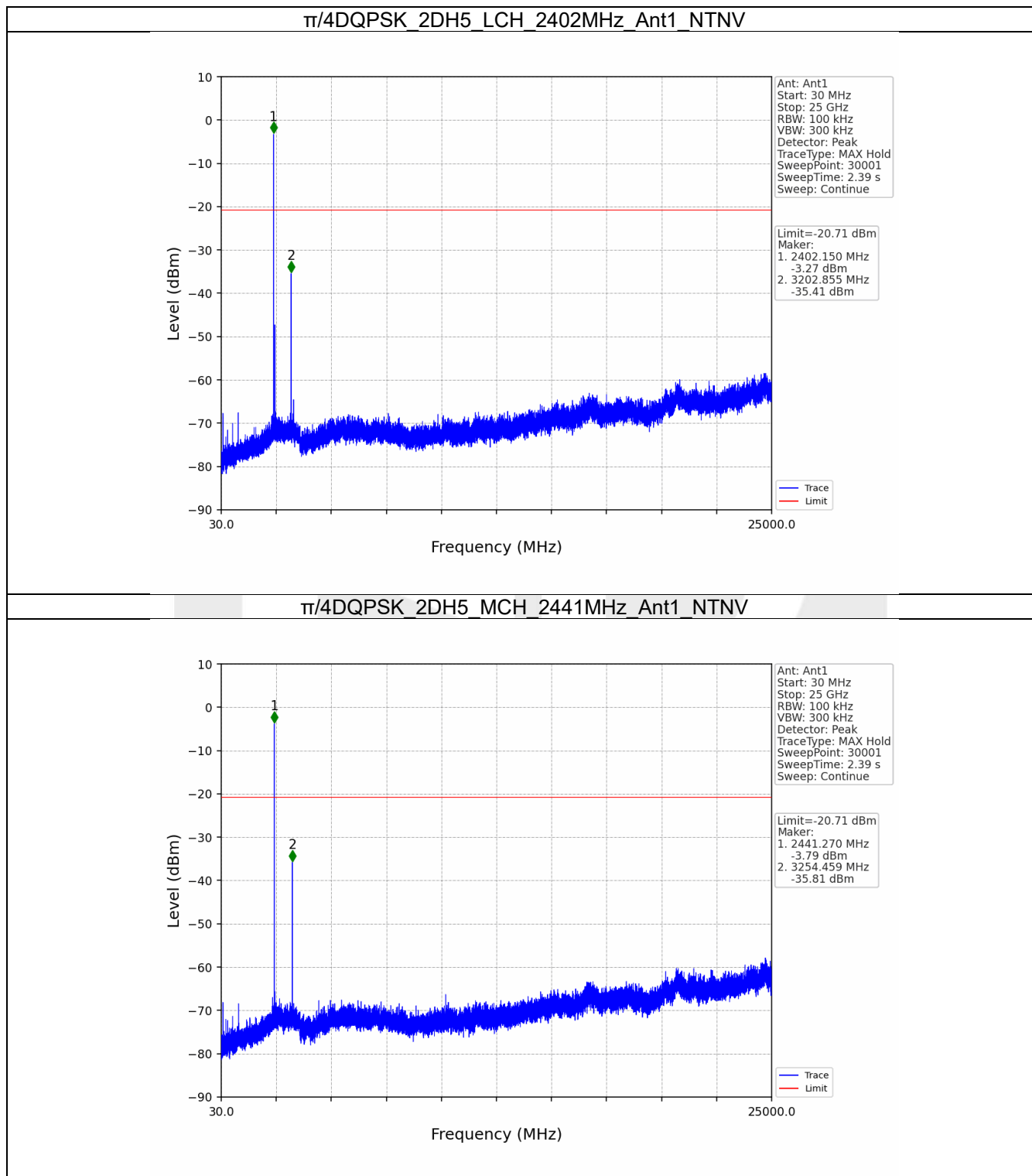
6.2.2 Test Graph

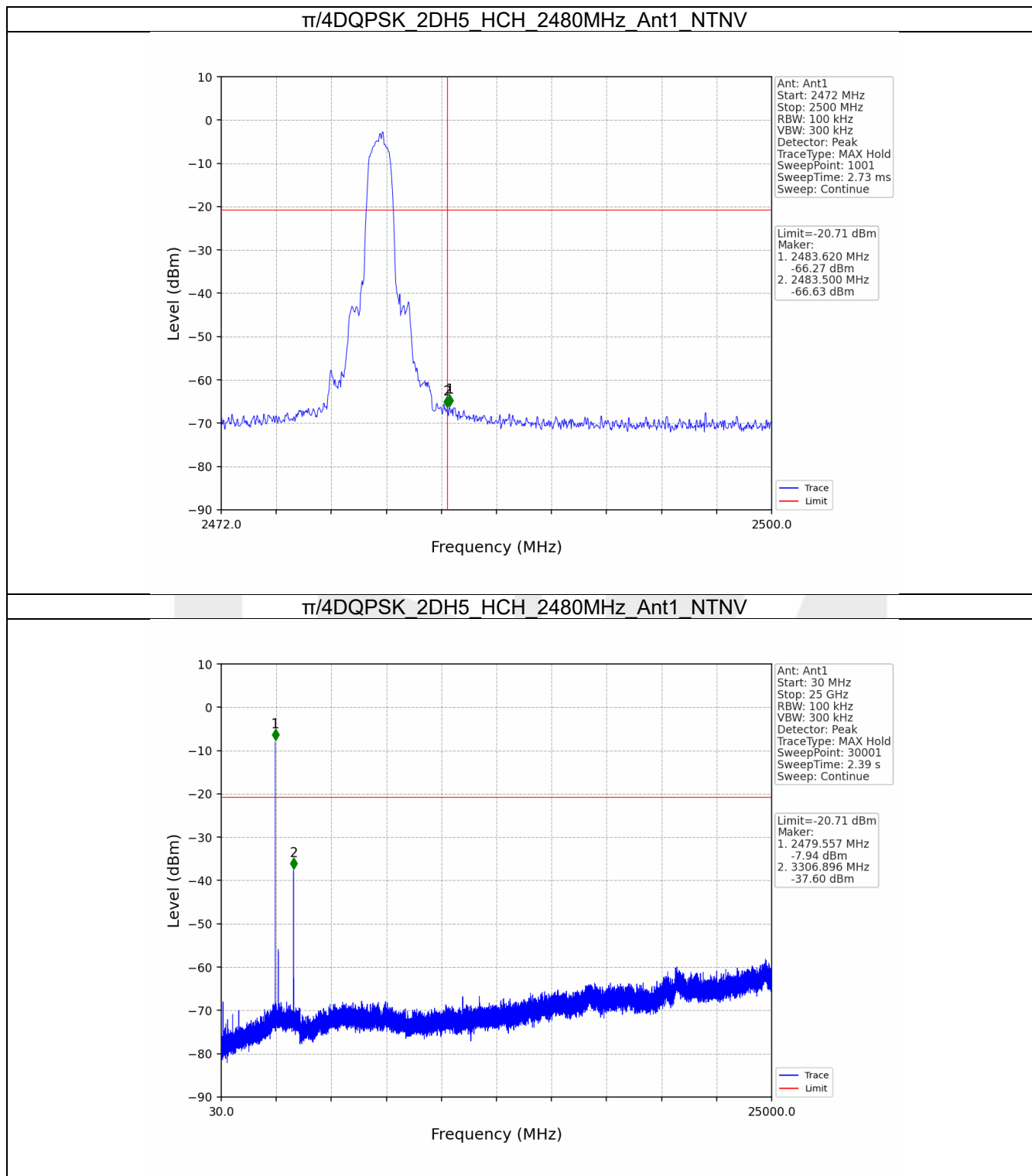


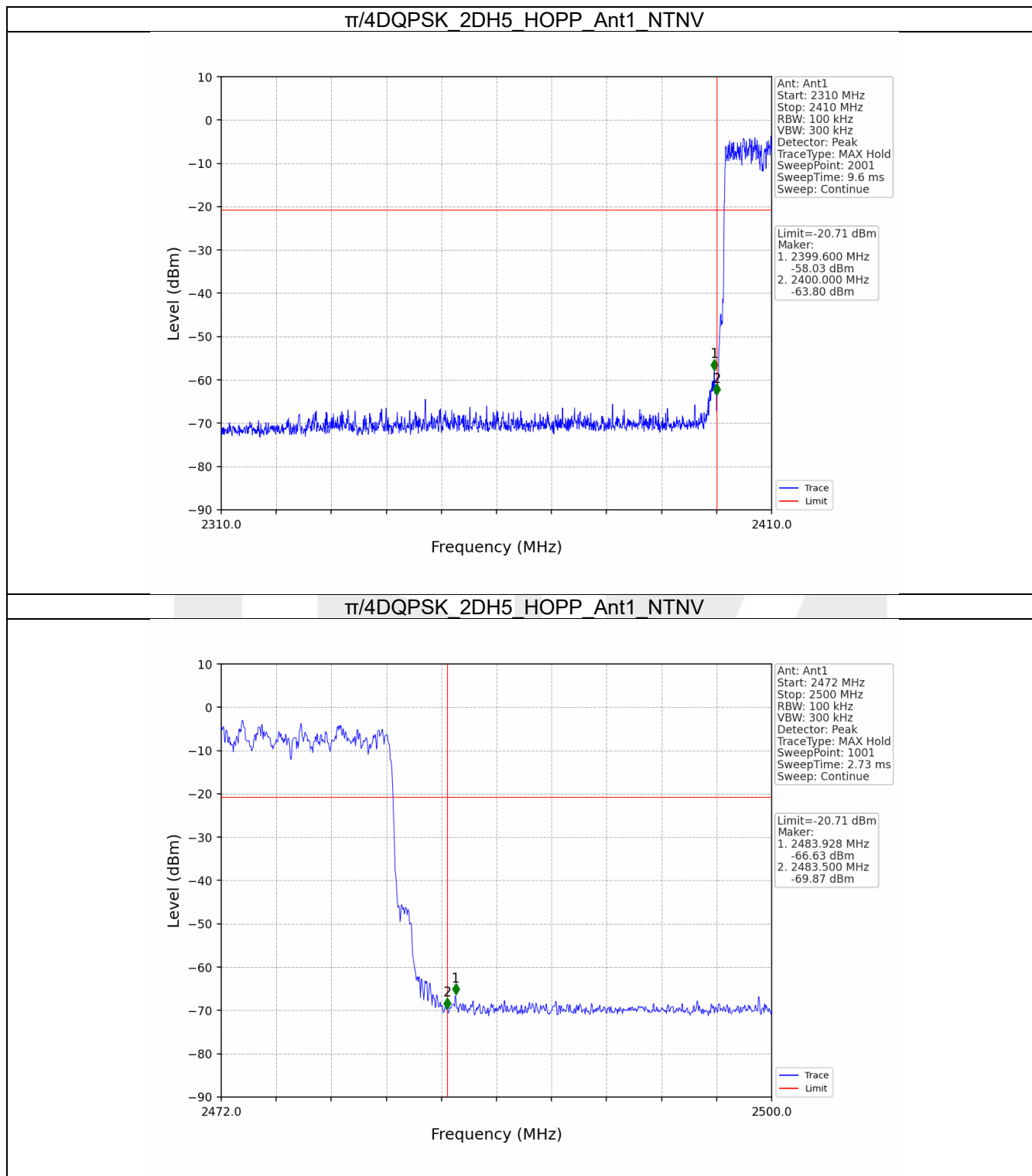












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