

ANNEX E TEST DATA

For

Project No.:	8228EU012510W
Client:	GuangZhouYouNiFeiQiCheYongPinYouXianGongSi
Product Name:	Harley Speaker
Model No.:	KM-harleyC
FCC ID:	2BGCZ-KMHARLEYC
Technology:	Bluetooth BDR&EDR
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-05-20

Test Summary

Item	Result
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

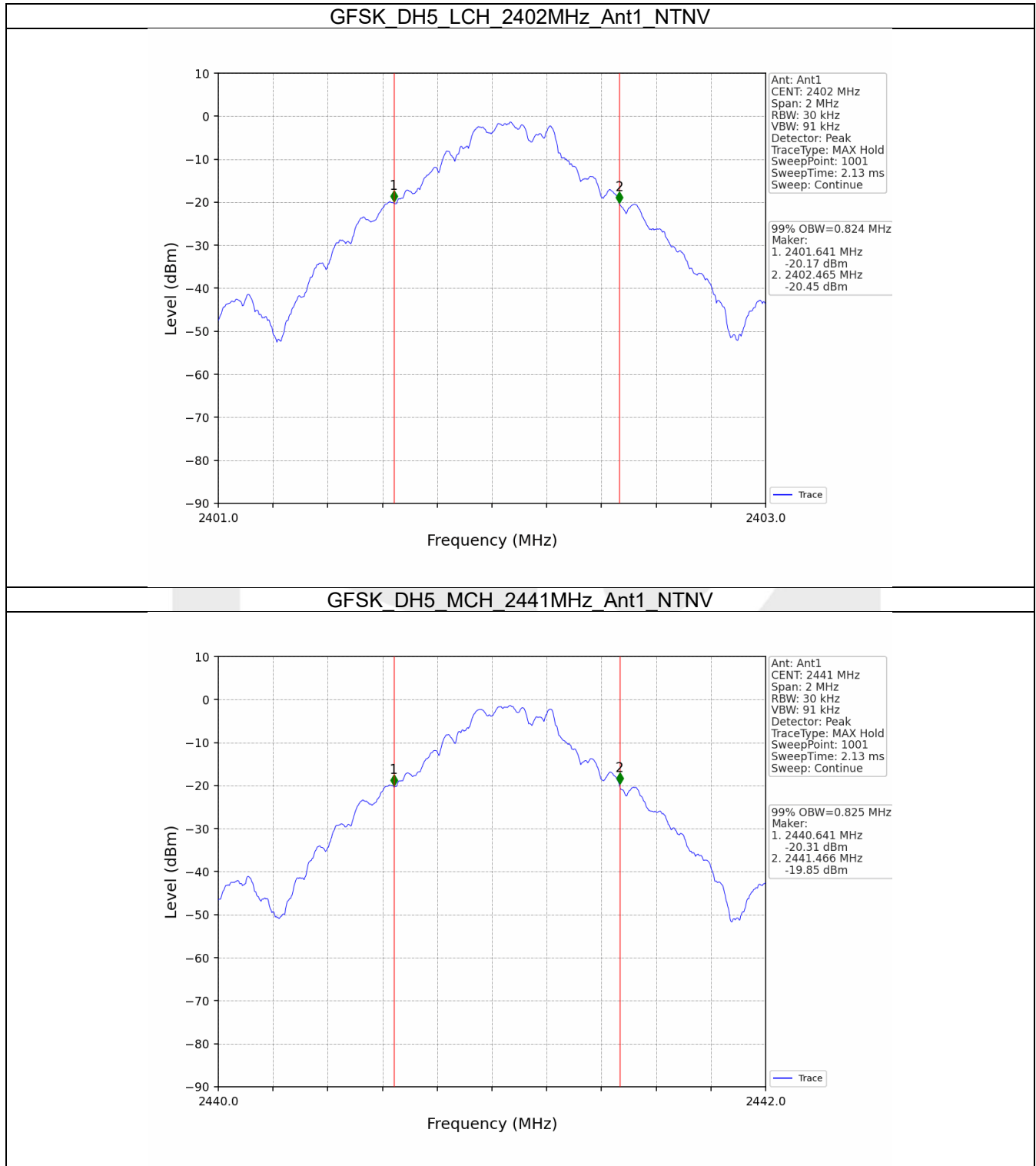
1. Bandwidth

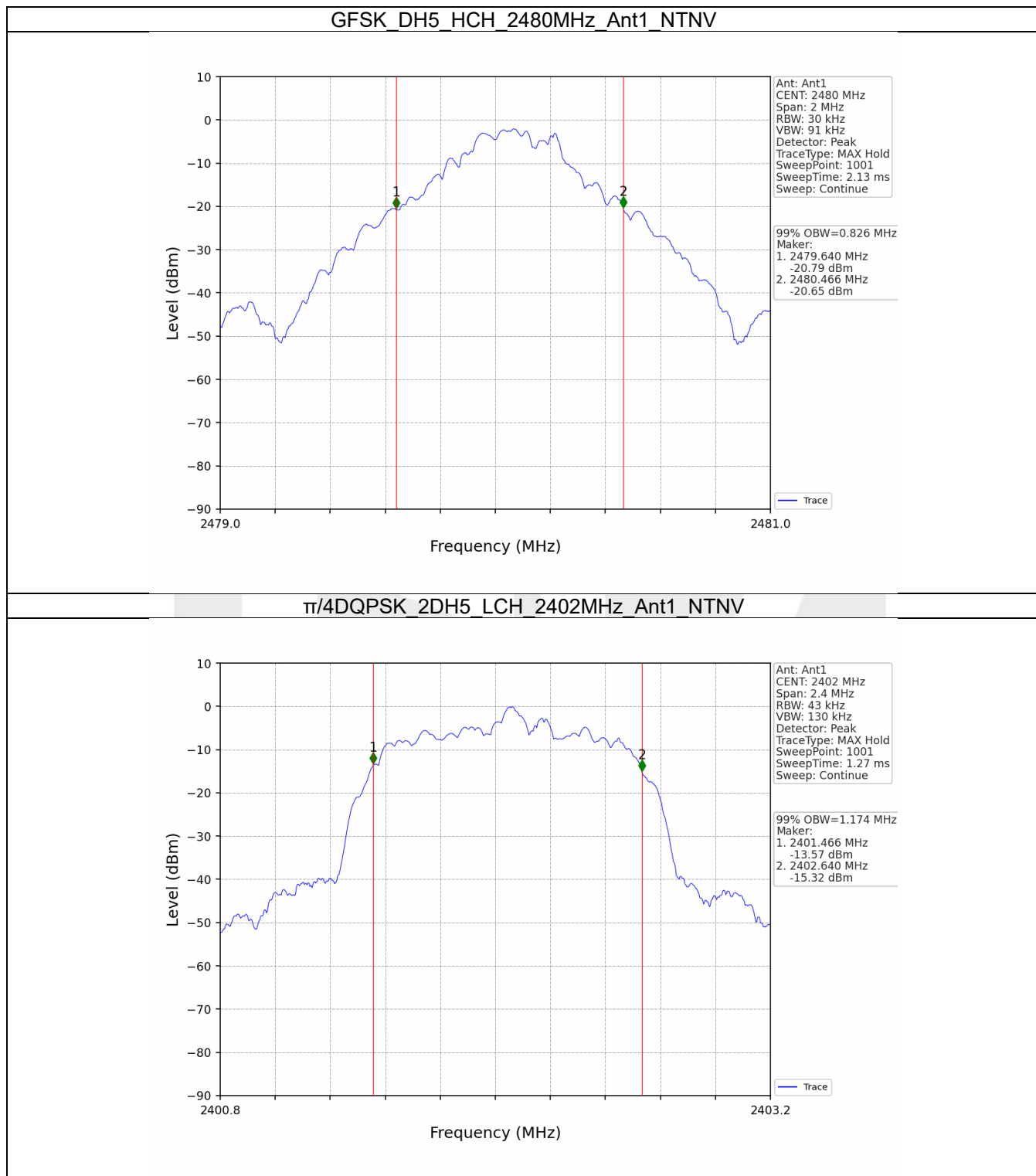
1.1 OBW

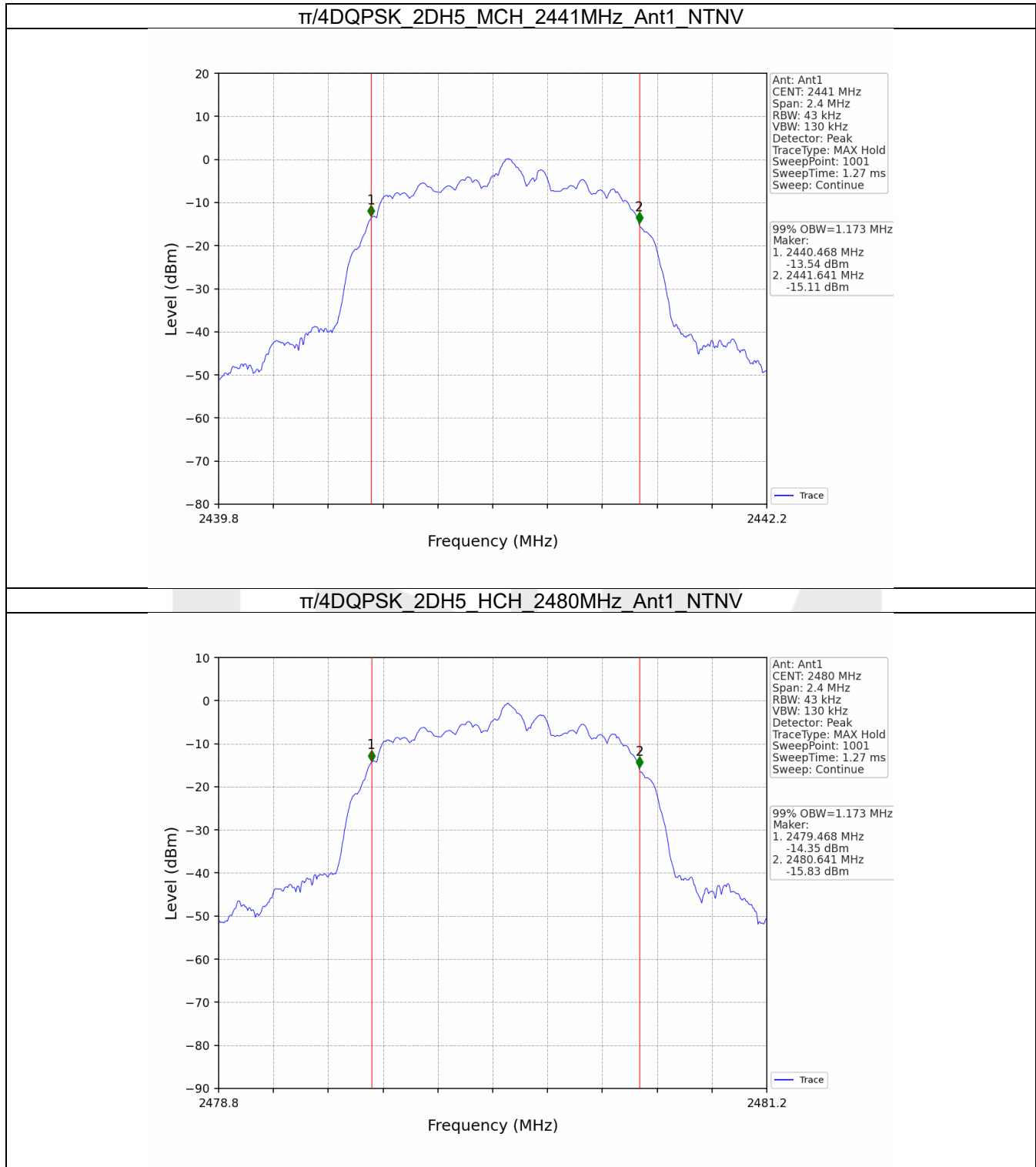
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.824	/	Pass
		2441	DH5	1	0.825	/	Pass
		2480	DH5	1	0.826	/	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.174	/	Pass
		2441	2DH5	1	1.173	/	Pass
		2480	2DH5	1	1.173	/	Pass

1.1.2 Test Graph





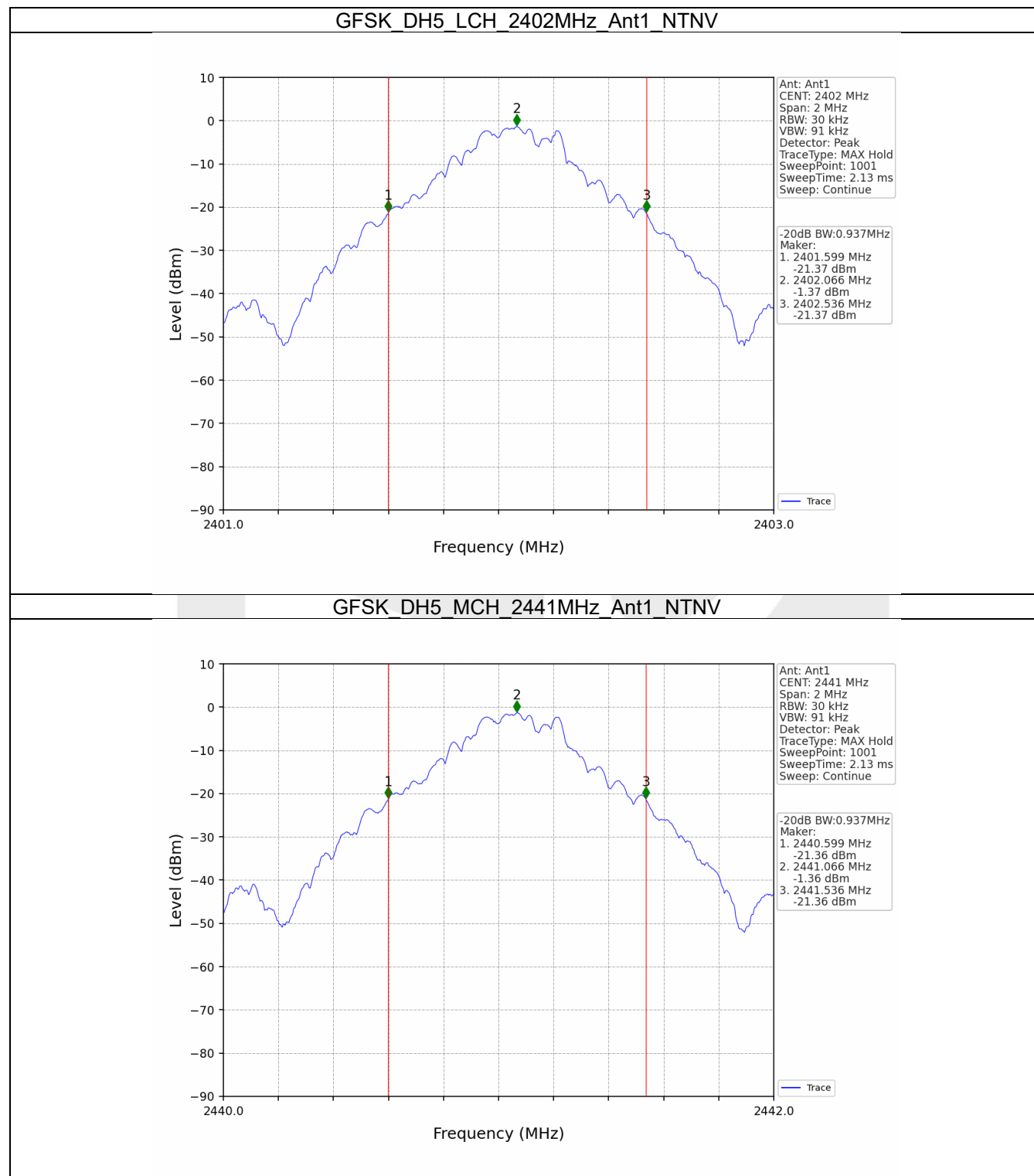


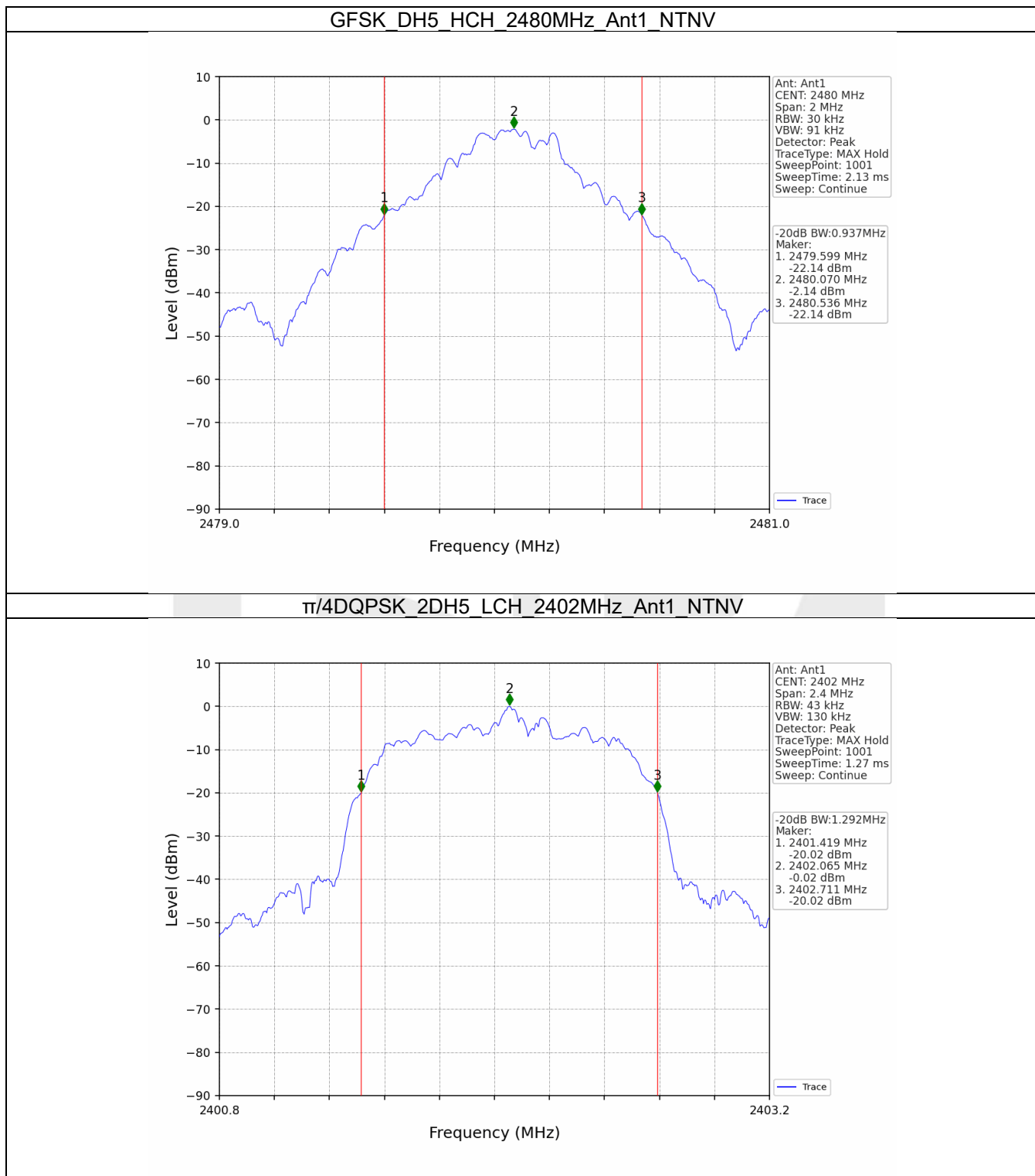
1.2 20dB BW

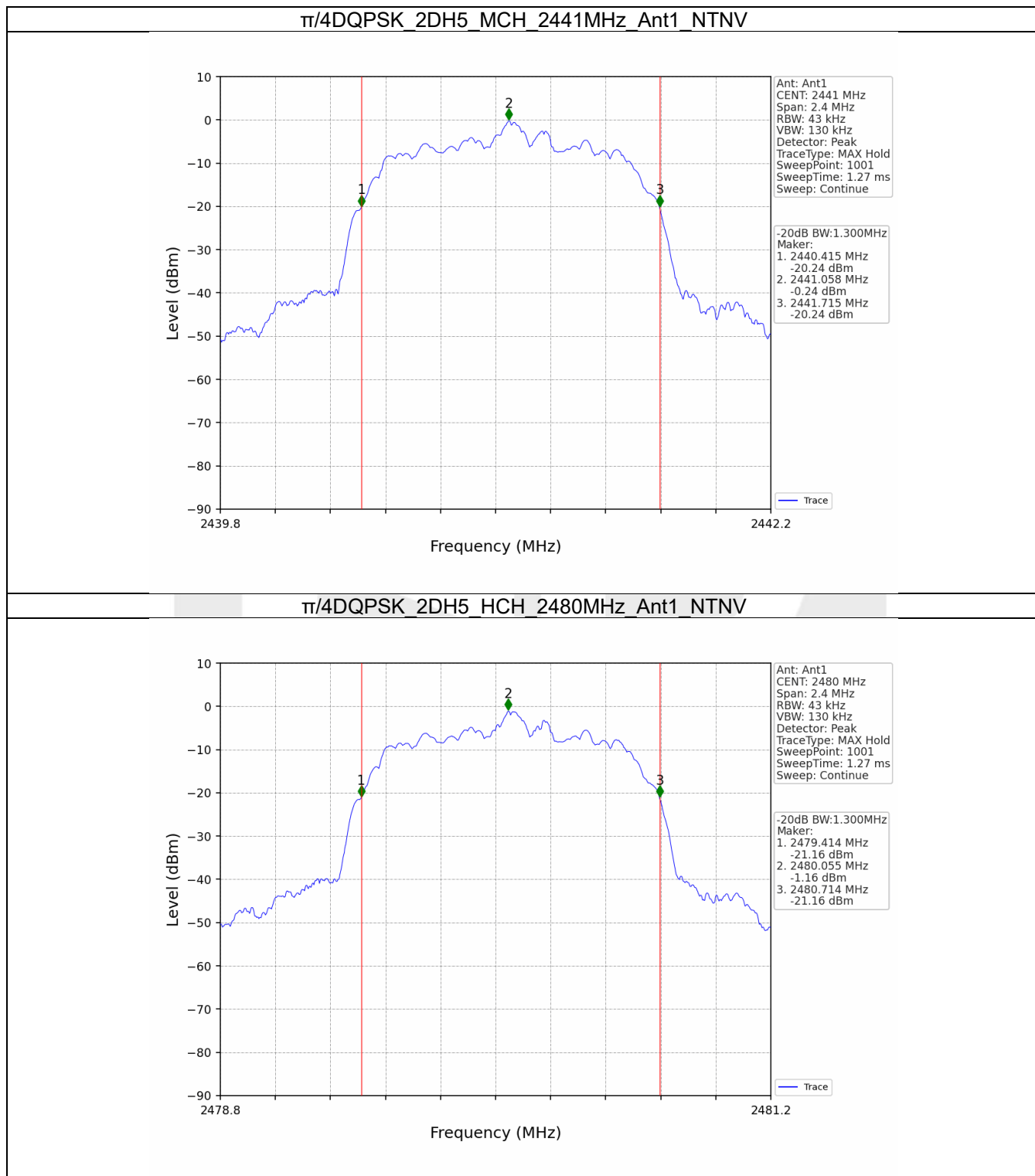
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.937	/	Pass
		2441	DH5	1	0.937	/	Pass
		2480	DH5	1	0.937	/	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.292	/	Pass
		2441	2DH5	1	1.300	/	Pass
		2480	2DH5	1	1.300	/	Pass

1.2.2 Test Graph







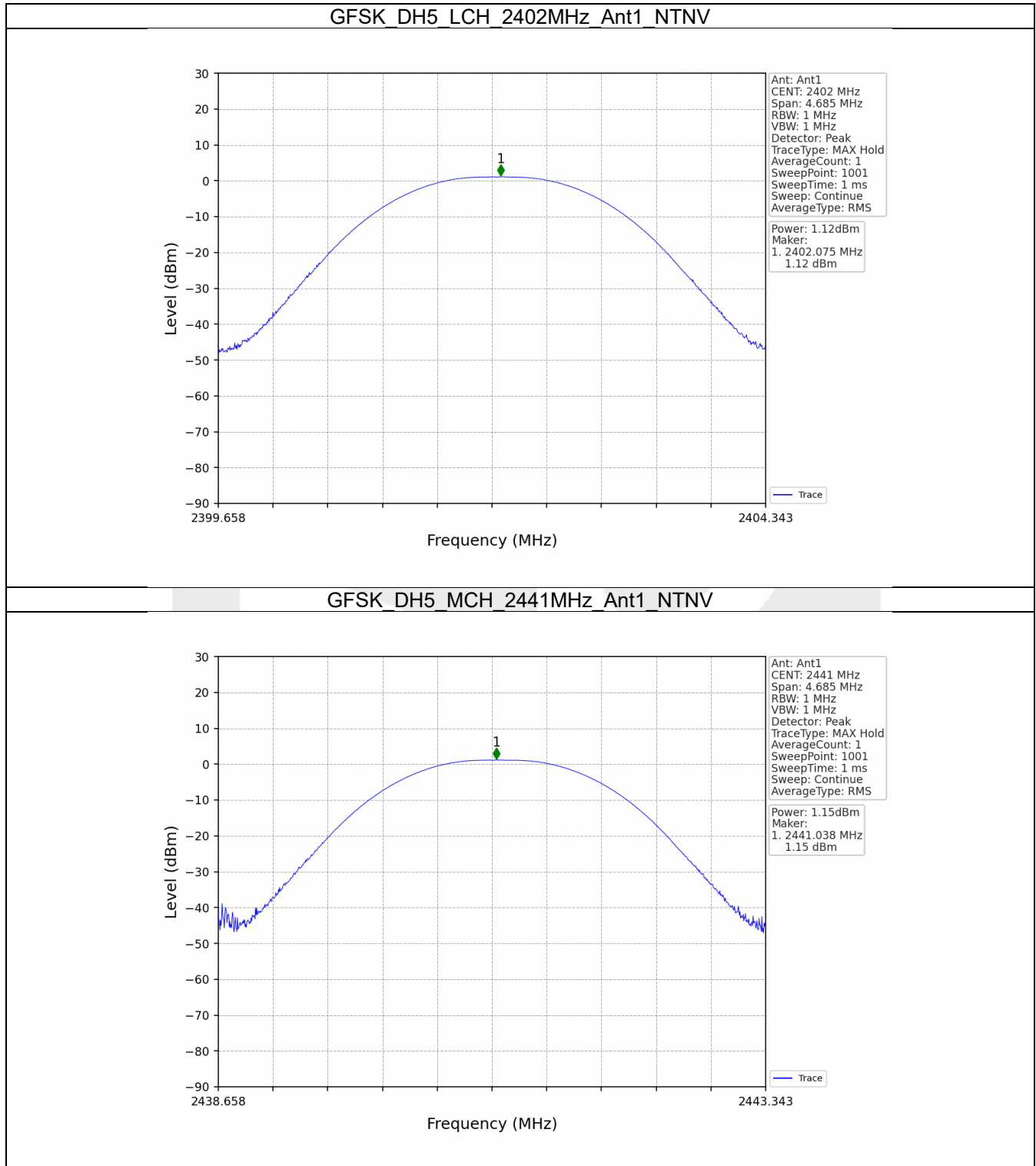
2. Maximum Conducted Output Power

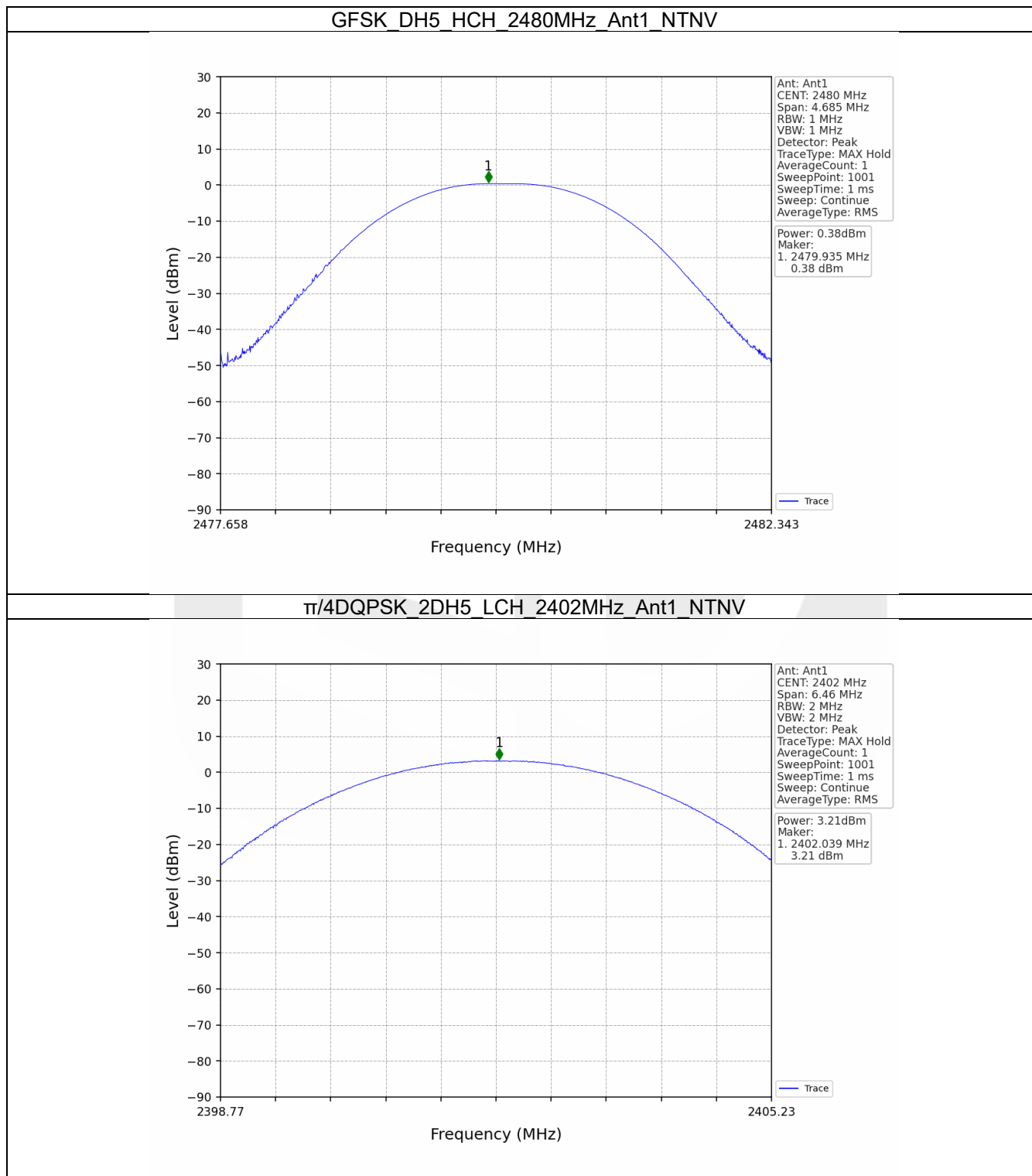
2.1 Power

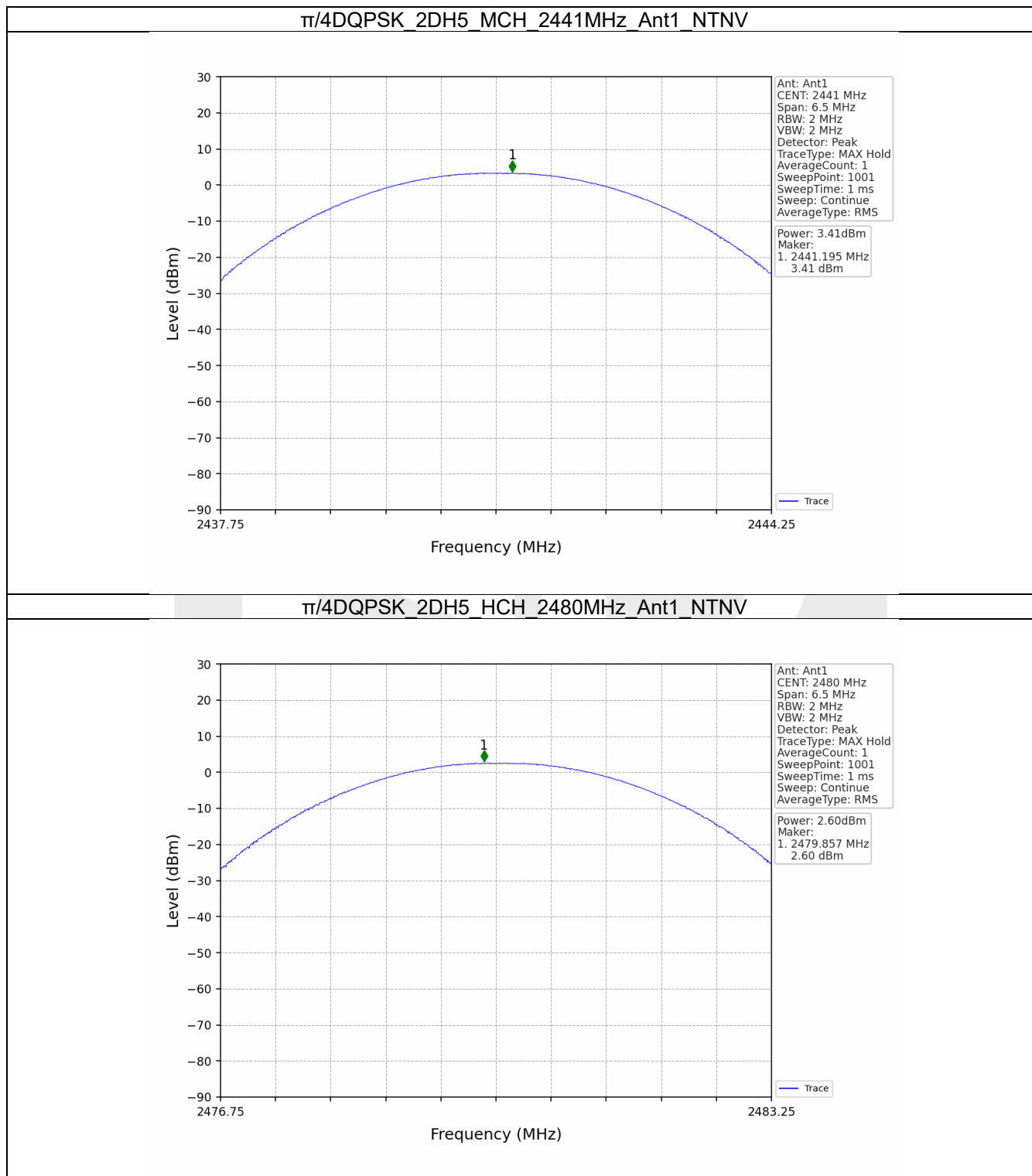
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.12	≤ 30	Pass
		2441	DH5	1.15	≤ 30	Pass
		2480	DH5	0.38	≤ 30	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	3.21	≤ 20.97	Pass
		2441	2DH5	3.41	≤ 20.97	Pass
		2480	2DH5	2.60	≤ 20.97	Pass

2.1.2 Test Graph







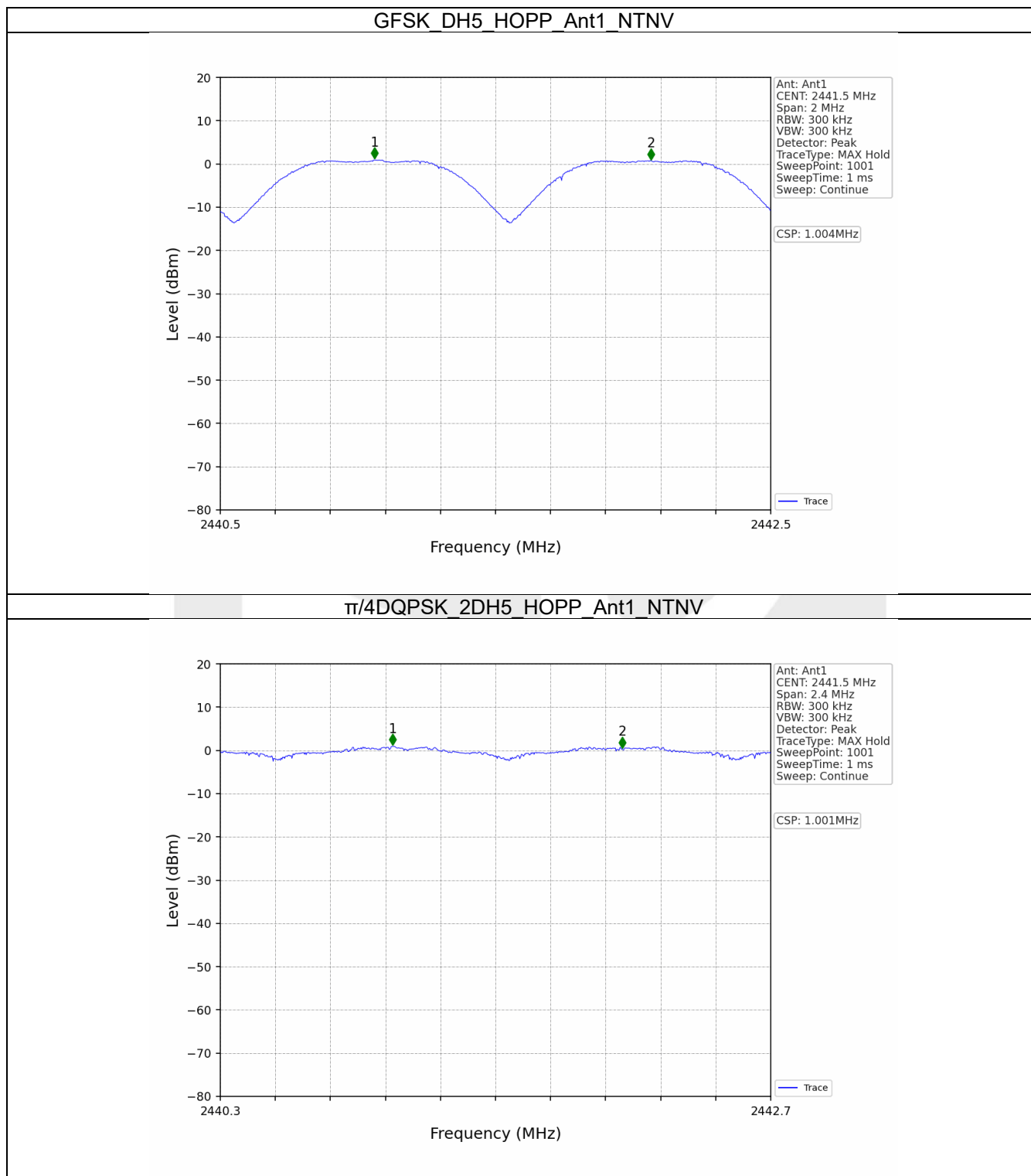
3. Carrier Frequency Separation

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	1.004	0.937	≥ 0.937	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH5	1.001	1.300	≥ 0.867	Pass

3.1.2 Test Graph



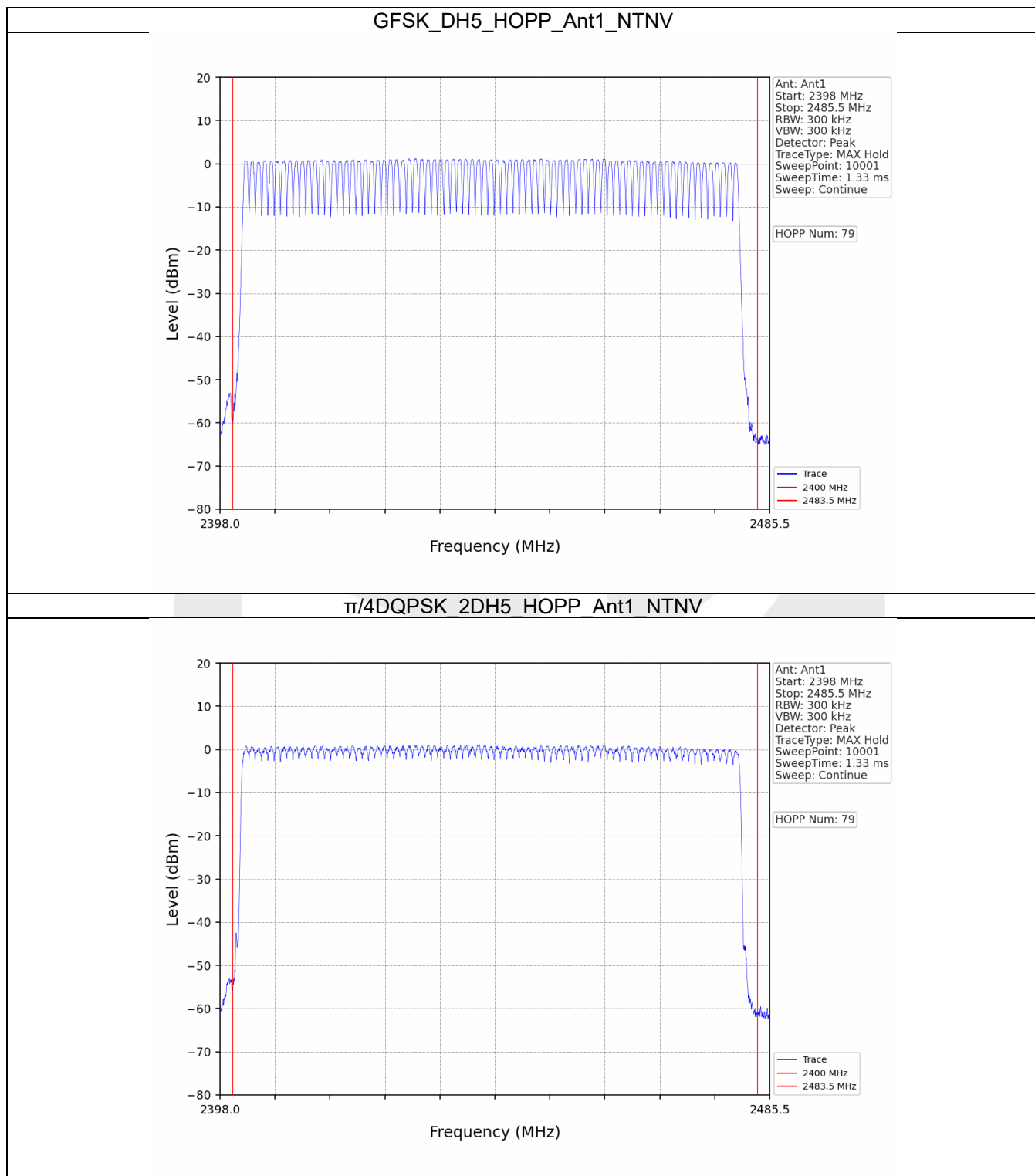
4. Number of Hopping Frequencies

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



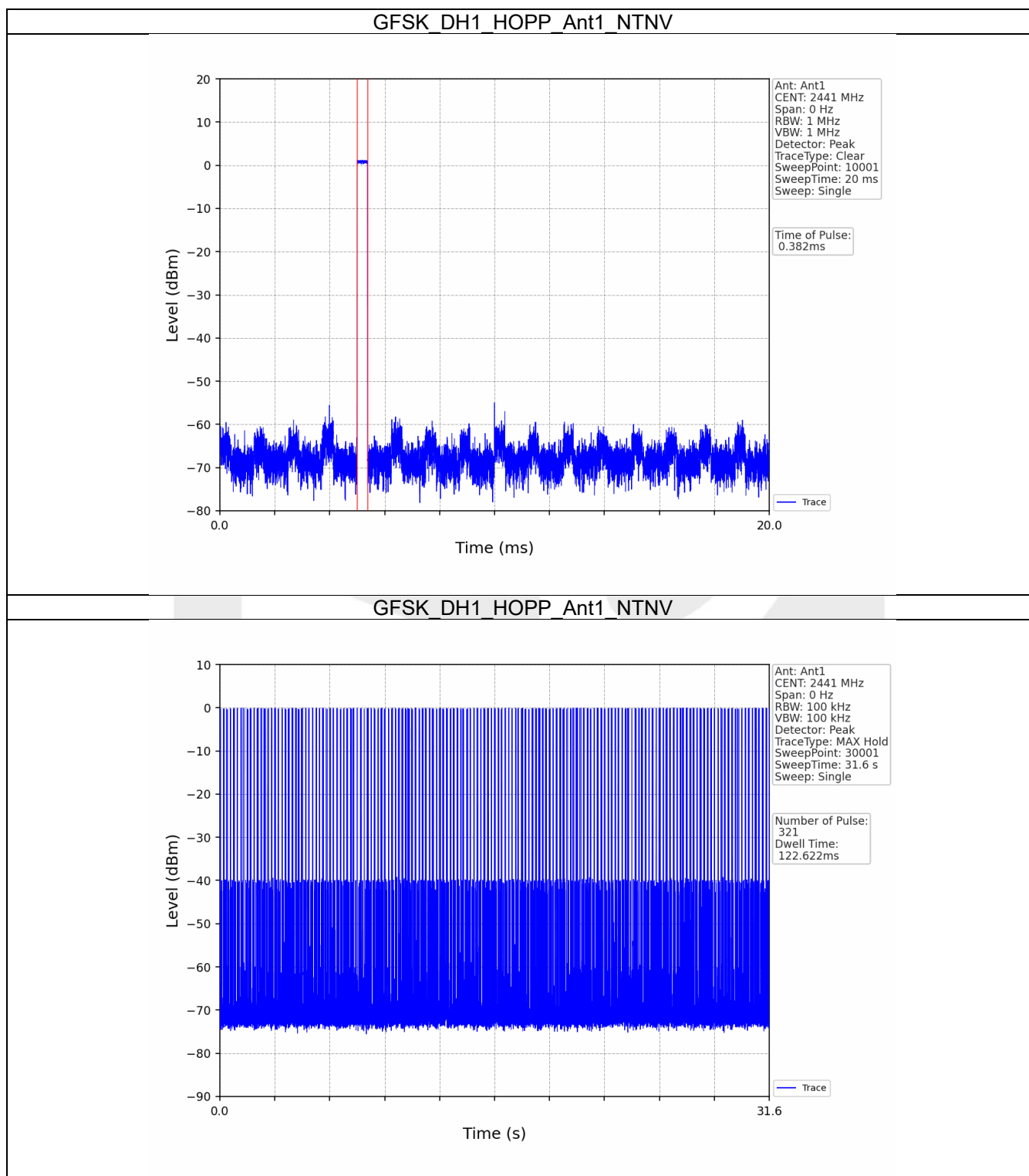
5. Time of Occupancy (Dwell Time)

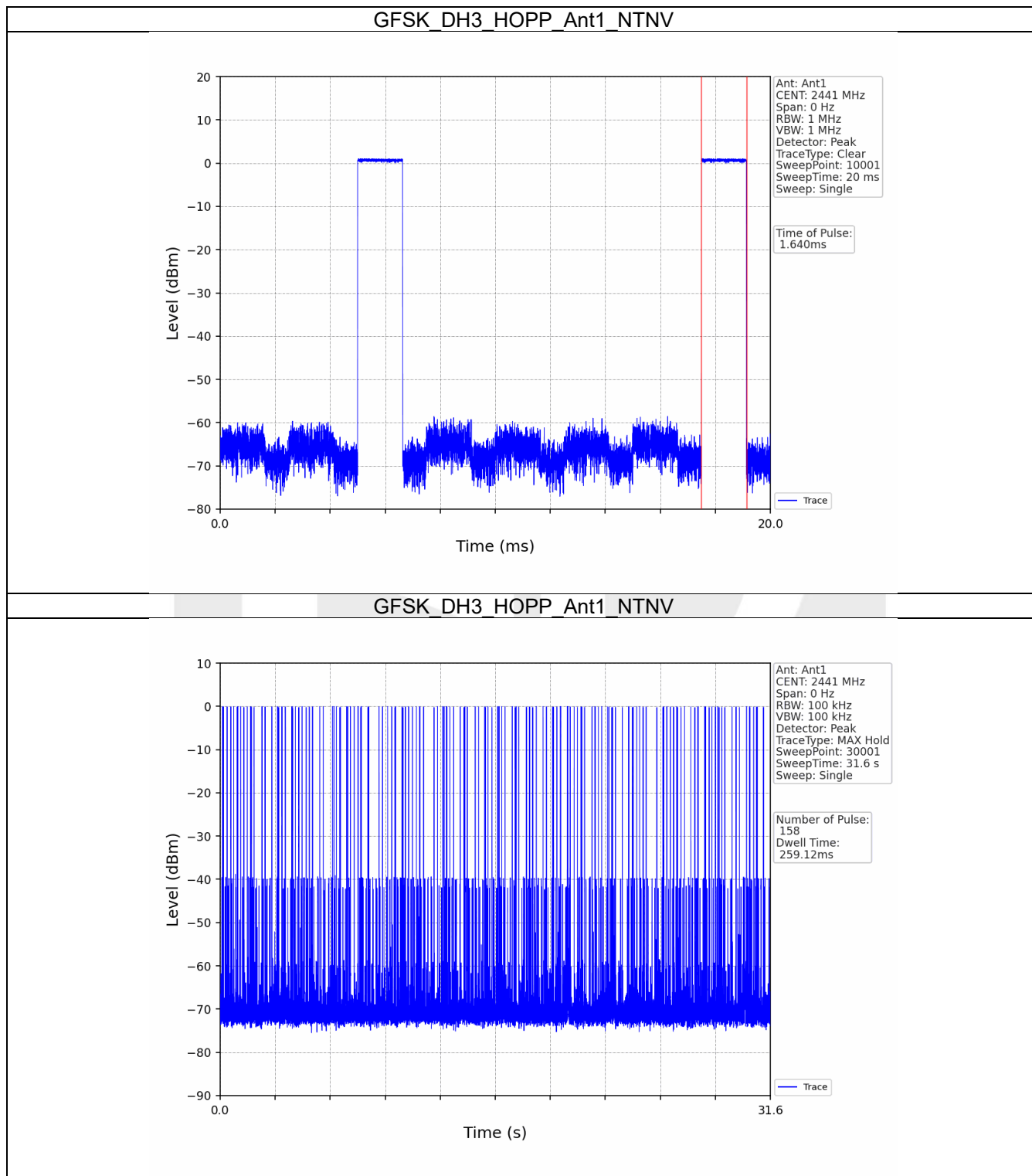
5.1 Ant1

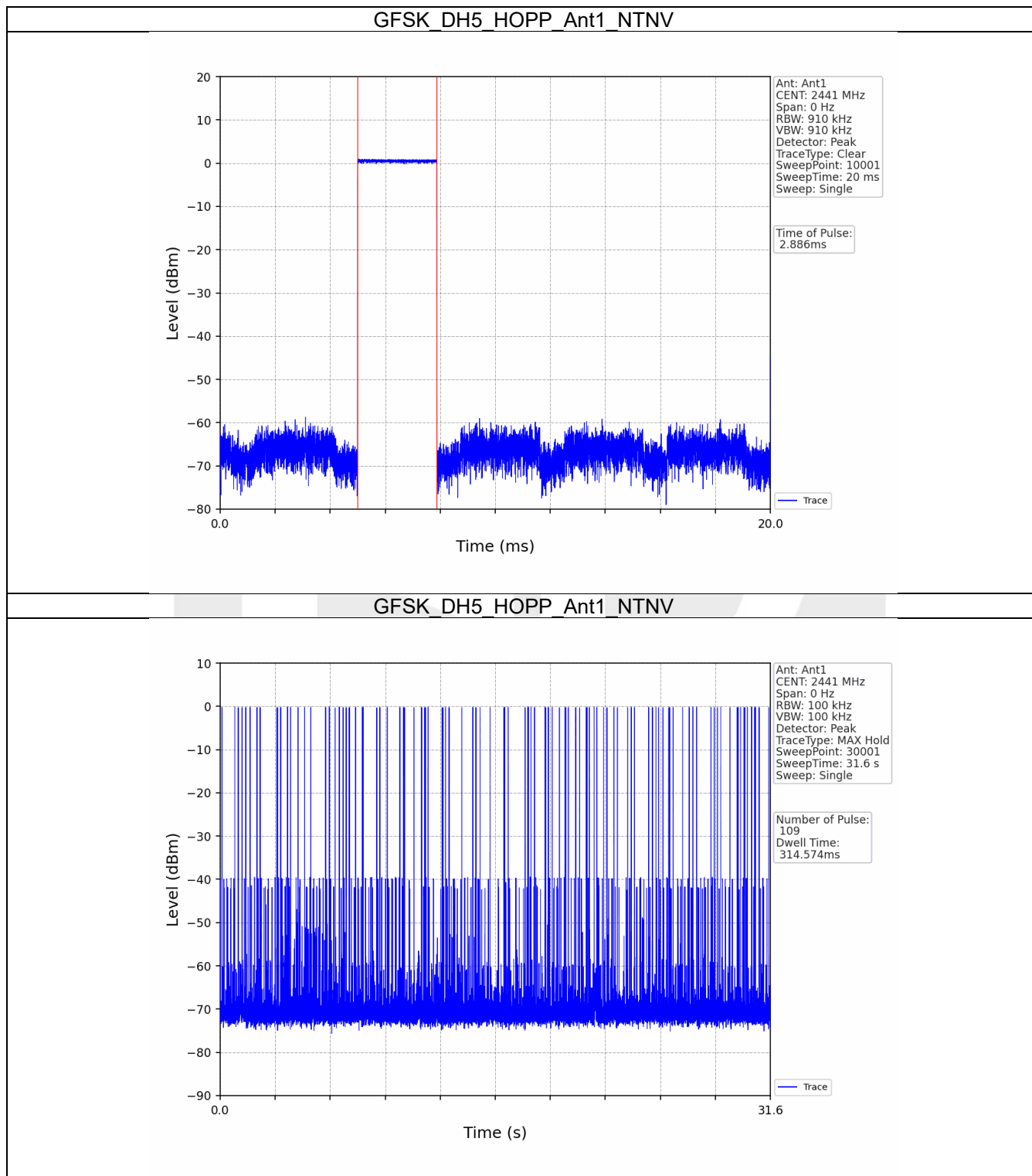
5.1.1 Test Result

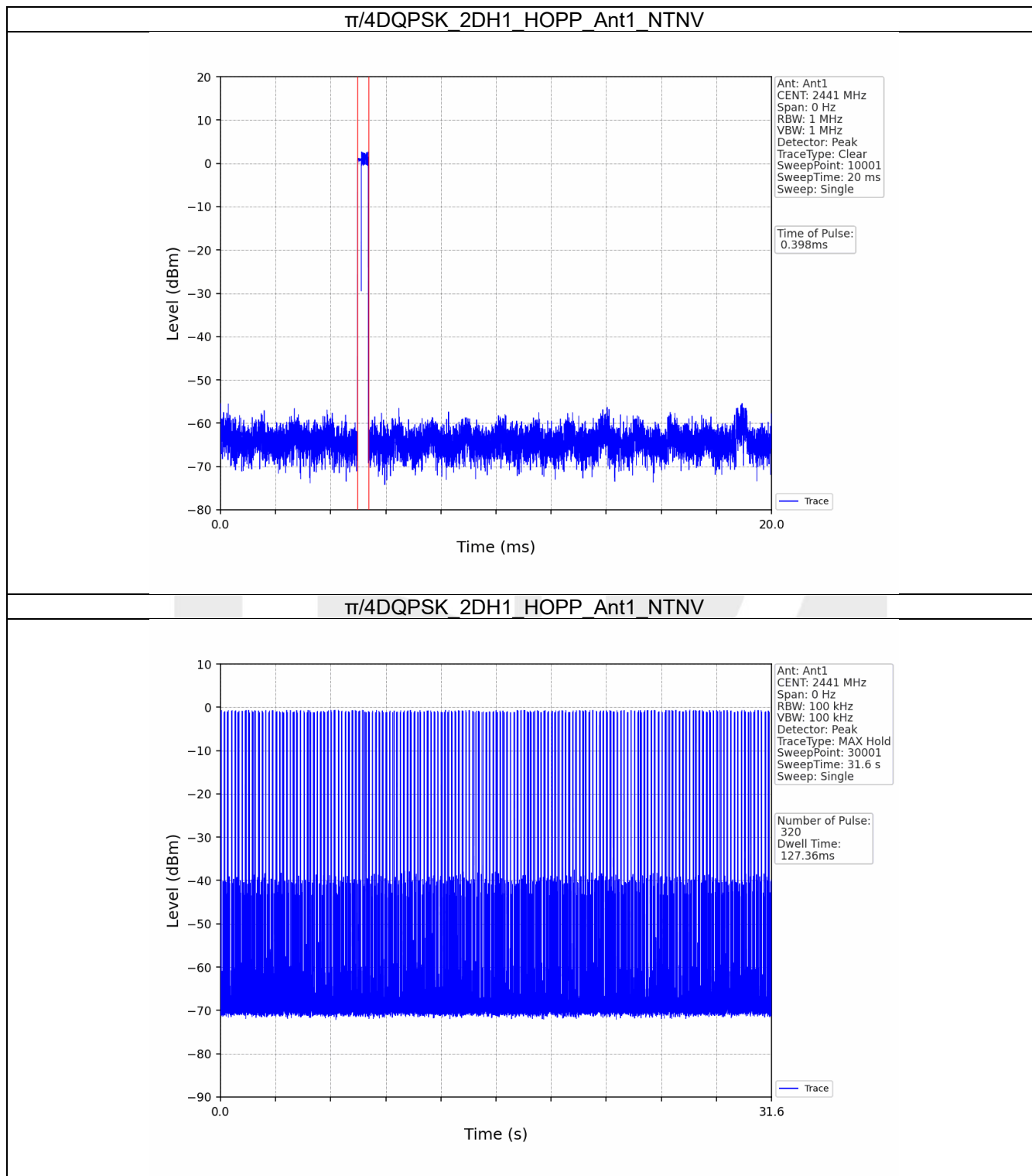
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.382	31.600	321	122.622	<=400	Pass
			DH3	1.640	31.600	158	259.120	<=400	Pass
			DH5	2.886	31.600	109	314.574	<=400	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH1	0.398	31.600	320	127.360	<=400	Pass
			2DH3	1.648	31.600	157	258.736	<=400	Pass
			2DH5	2.896	31.600	104	301.184	<=400	Pass

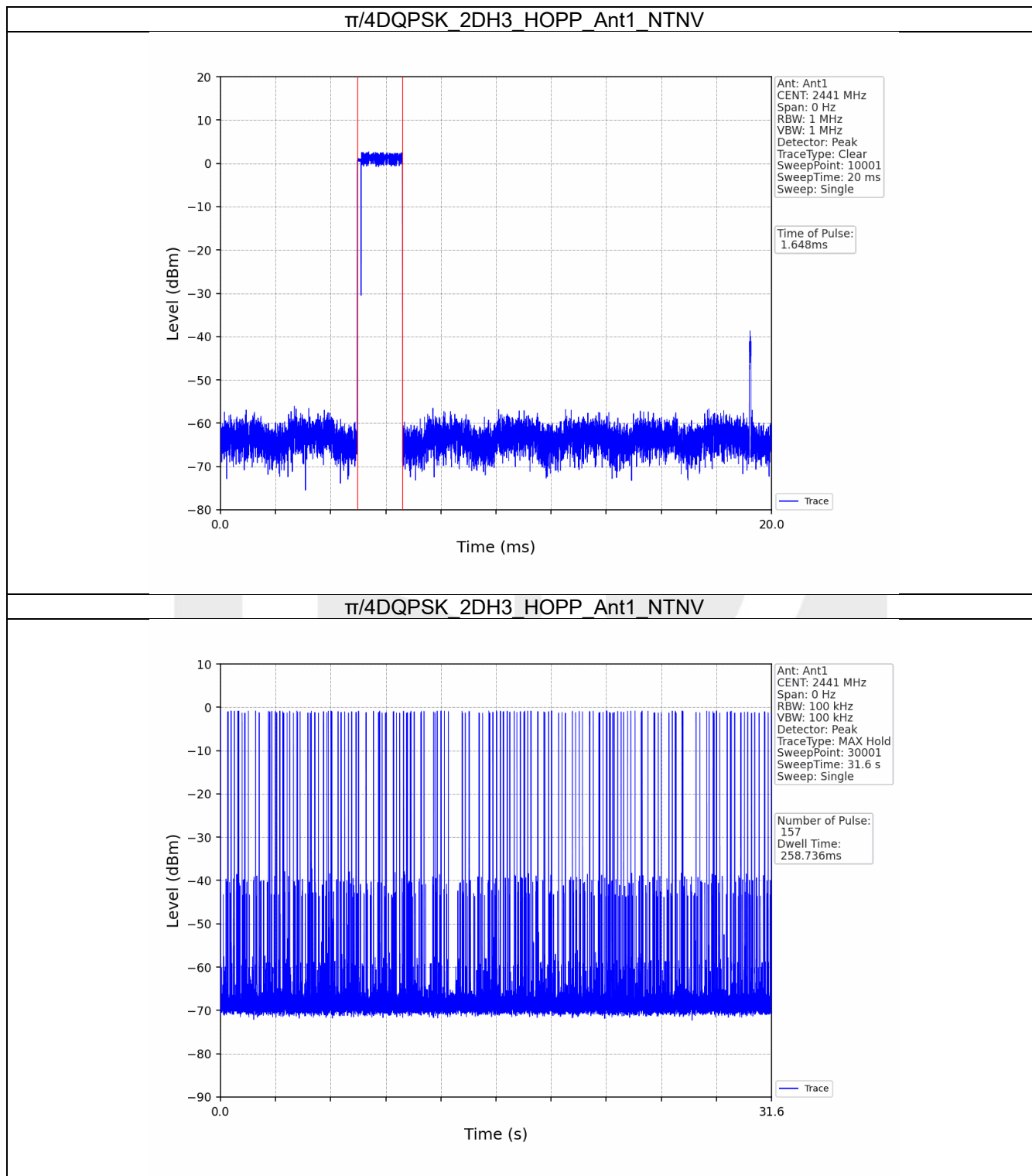
5.1.2 Test Graph

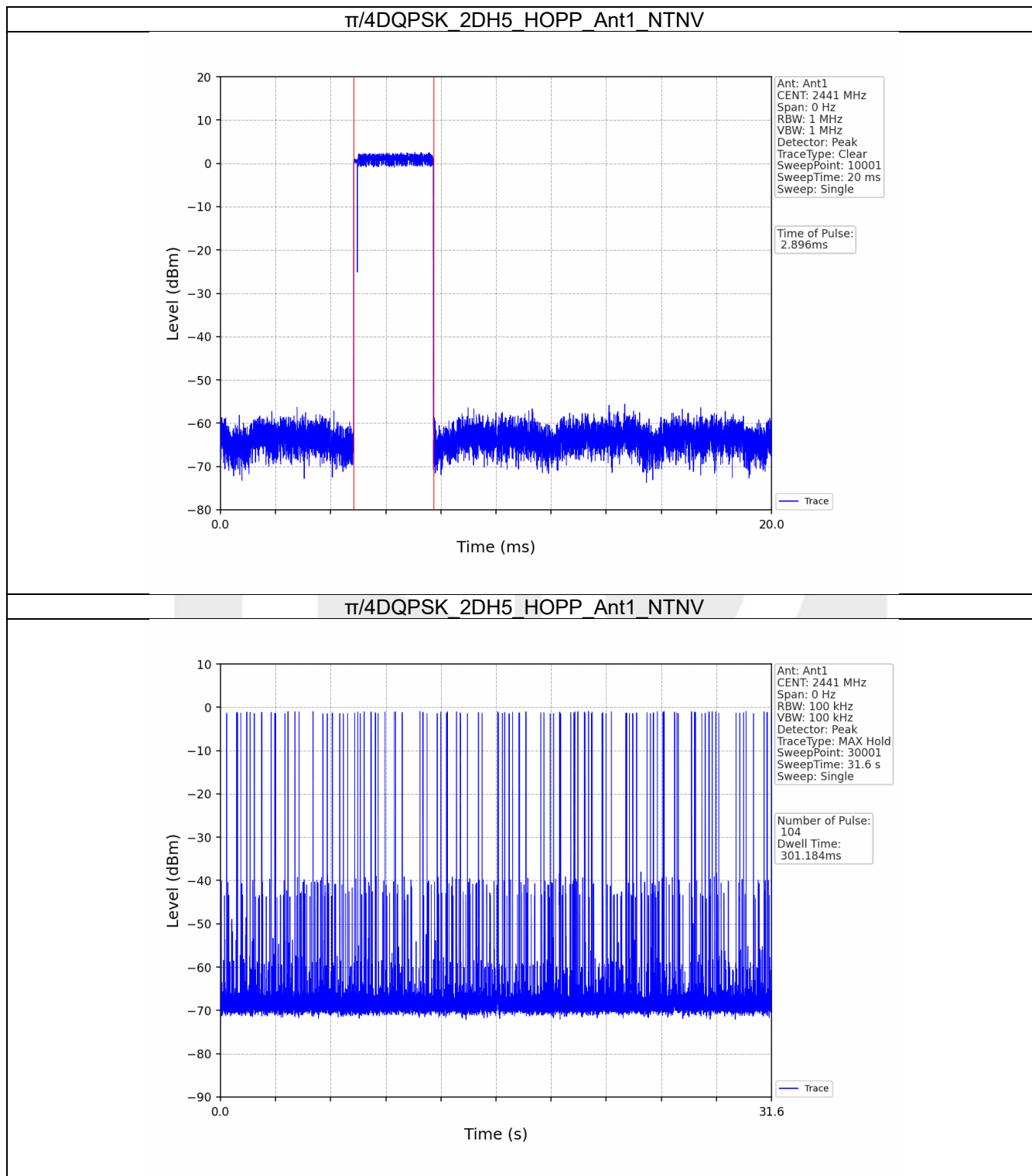












6. Unwanted Emissions In Non-restricted Frequency Bands

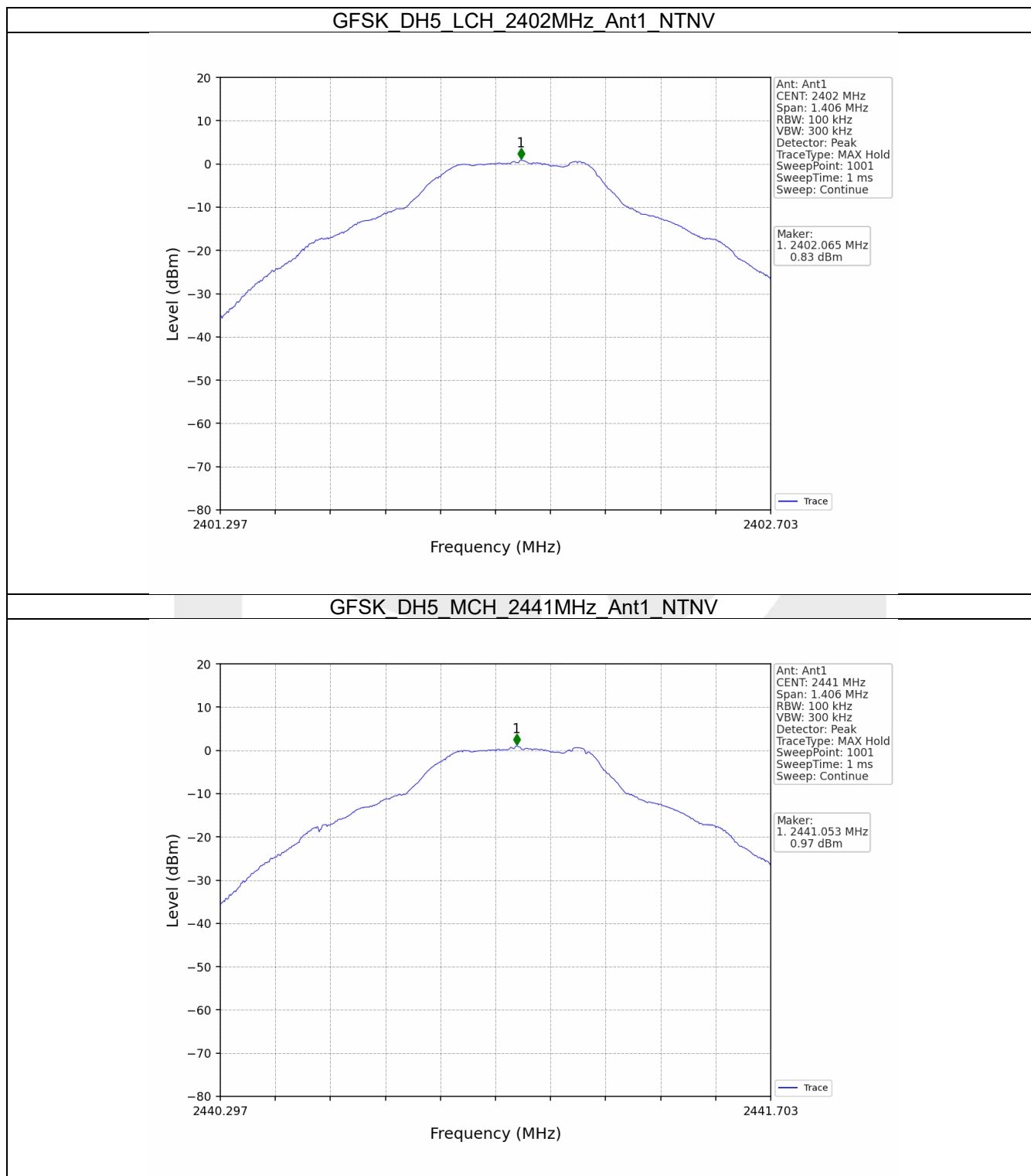
6.1 Ref

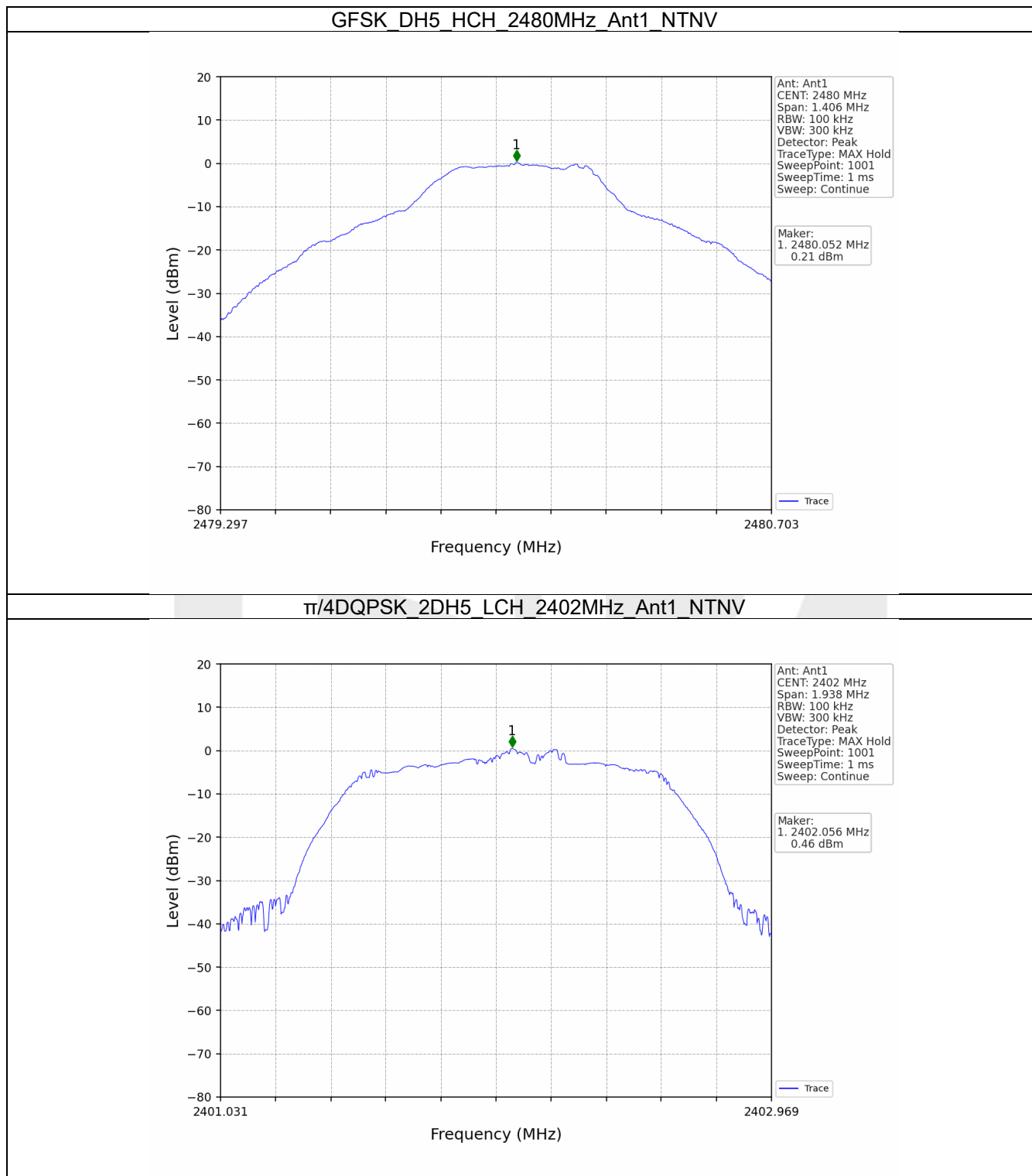
6.1.1 Test Result

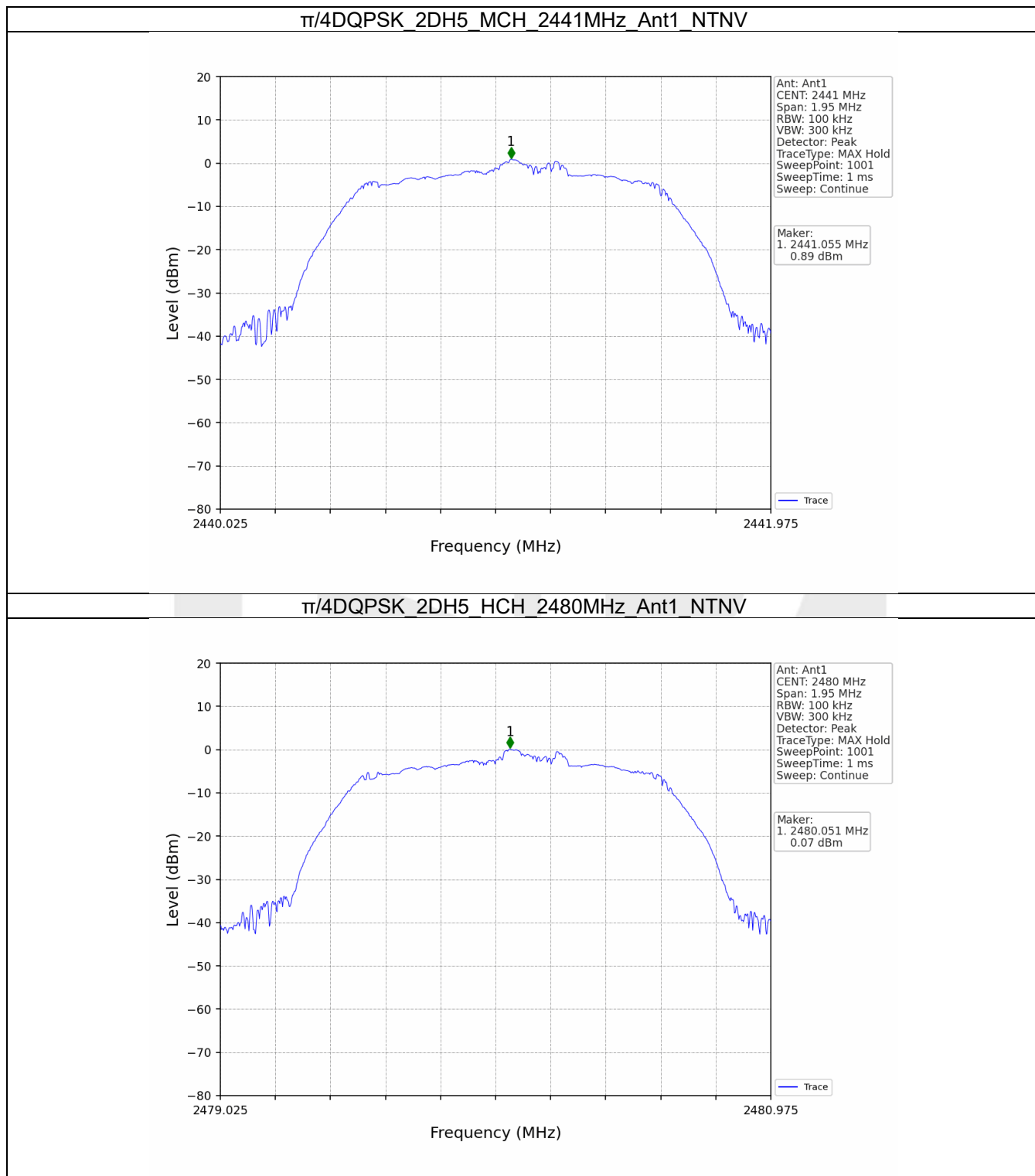
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	0.83
		2441	DH5	1	0.97
		2480	DH5	1	0.21
$\pi/4$ DQPSK	SISO	2402	2DH5	1	0.46
		2441	2DH5	1	0.89
		2480	2DH5	1	0.07

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







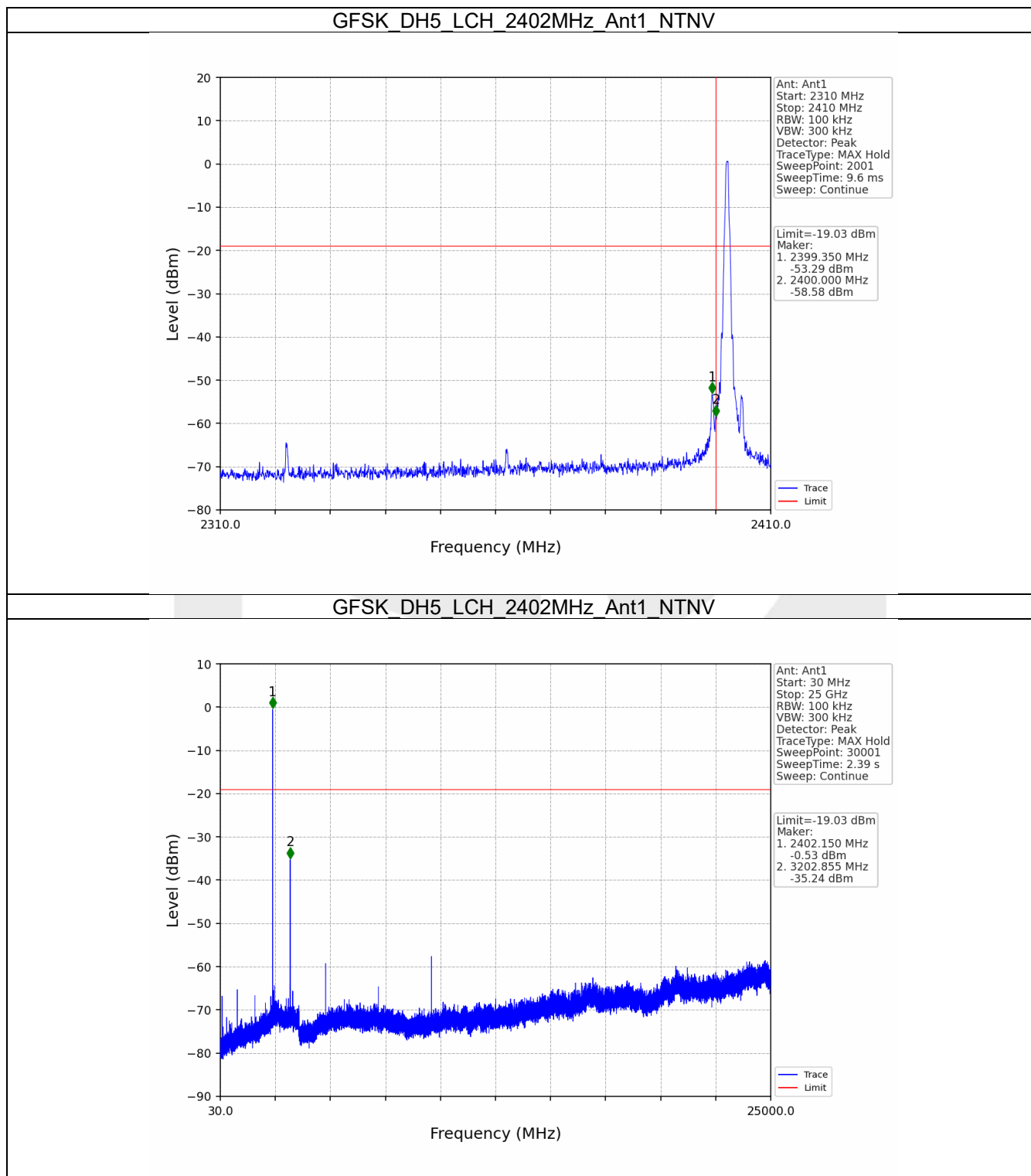
6.2 CSE

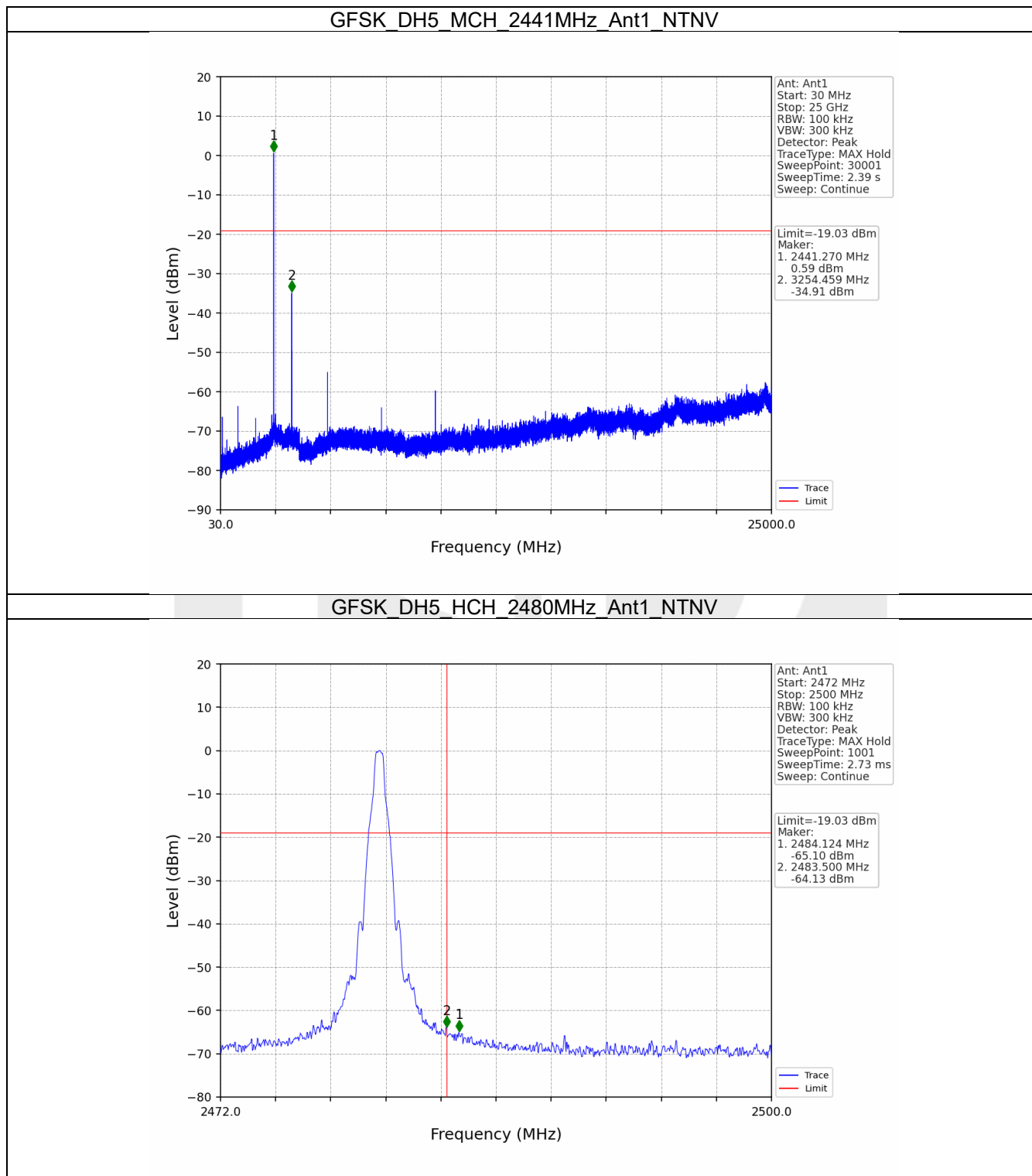
6.2.1 Test Result

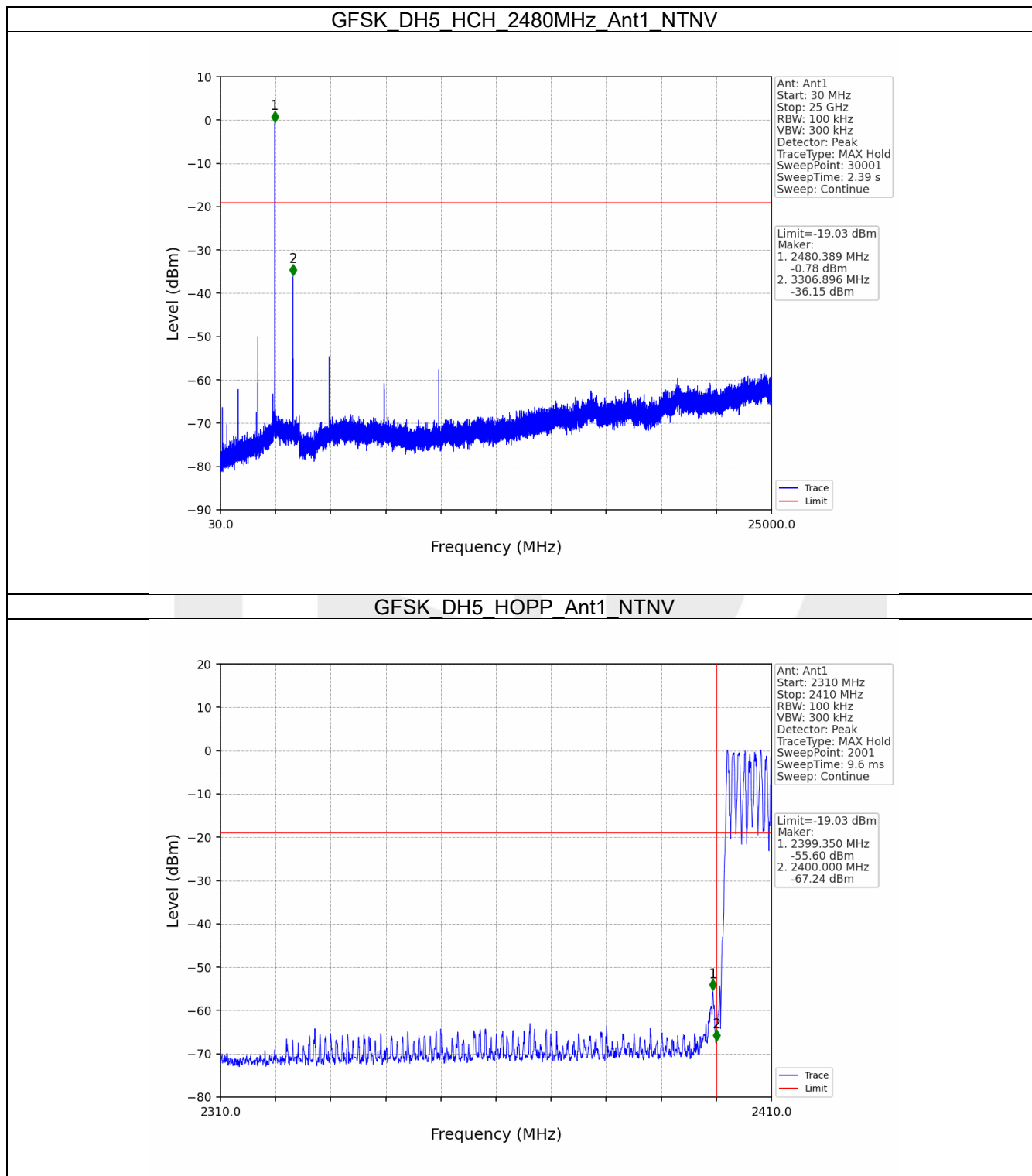
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	0.97	-19.03	Pass
		2441	DH5	1	0.97	-19.03	Pass
		2480	DH5	1	0.97	-19.03	Pass
		HOPP	DH5	1	0.97	-19.03	Pass
					0.97	-19.03	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	0.89	-19.11	Pass
		2441	2DH5	1	0.89	-19.11	Pass
		2480	2DH5	1	0.89	-19.11	Pass
		HOPP	2DH5	1	0.89	-19.11	Pass
					0.89	-19.11	Pass

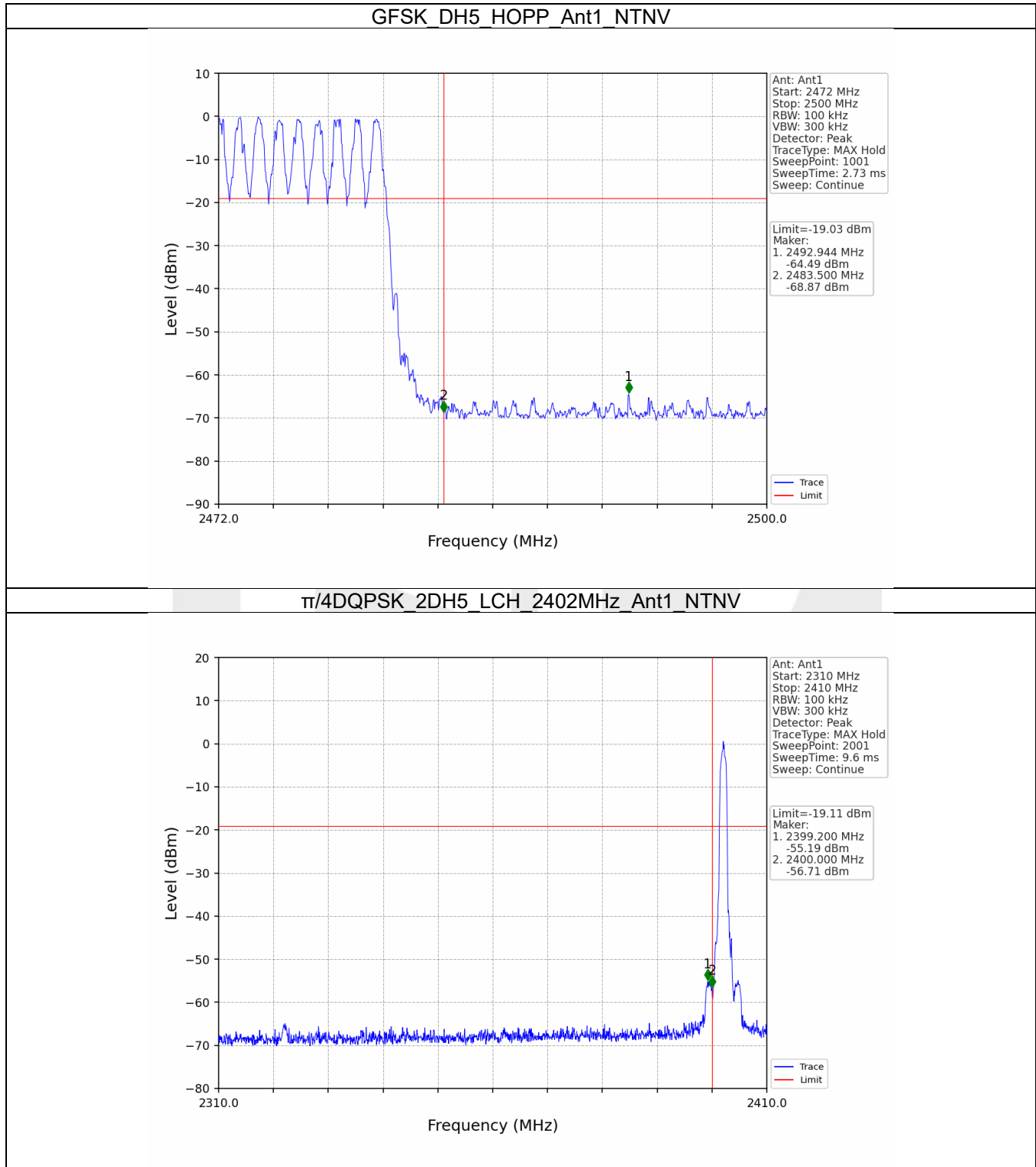
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

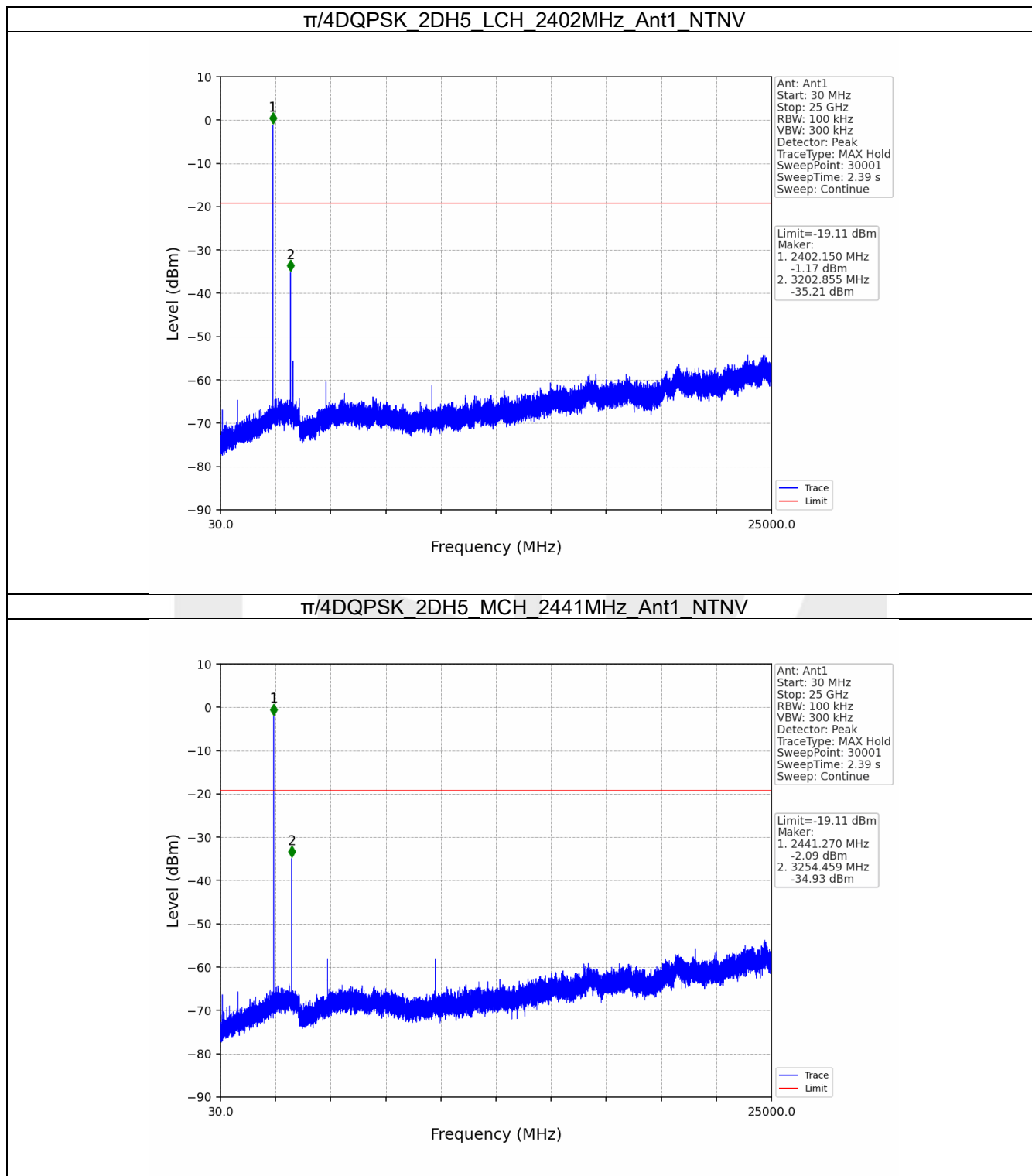
6.2.2 Test Graph

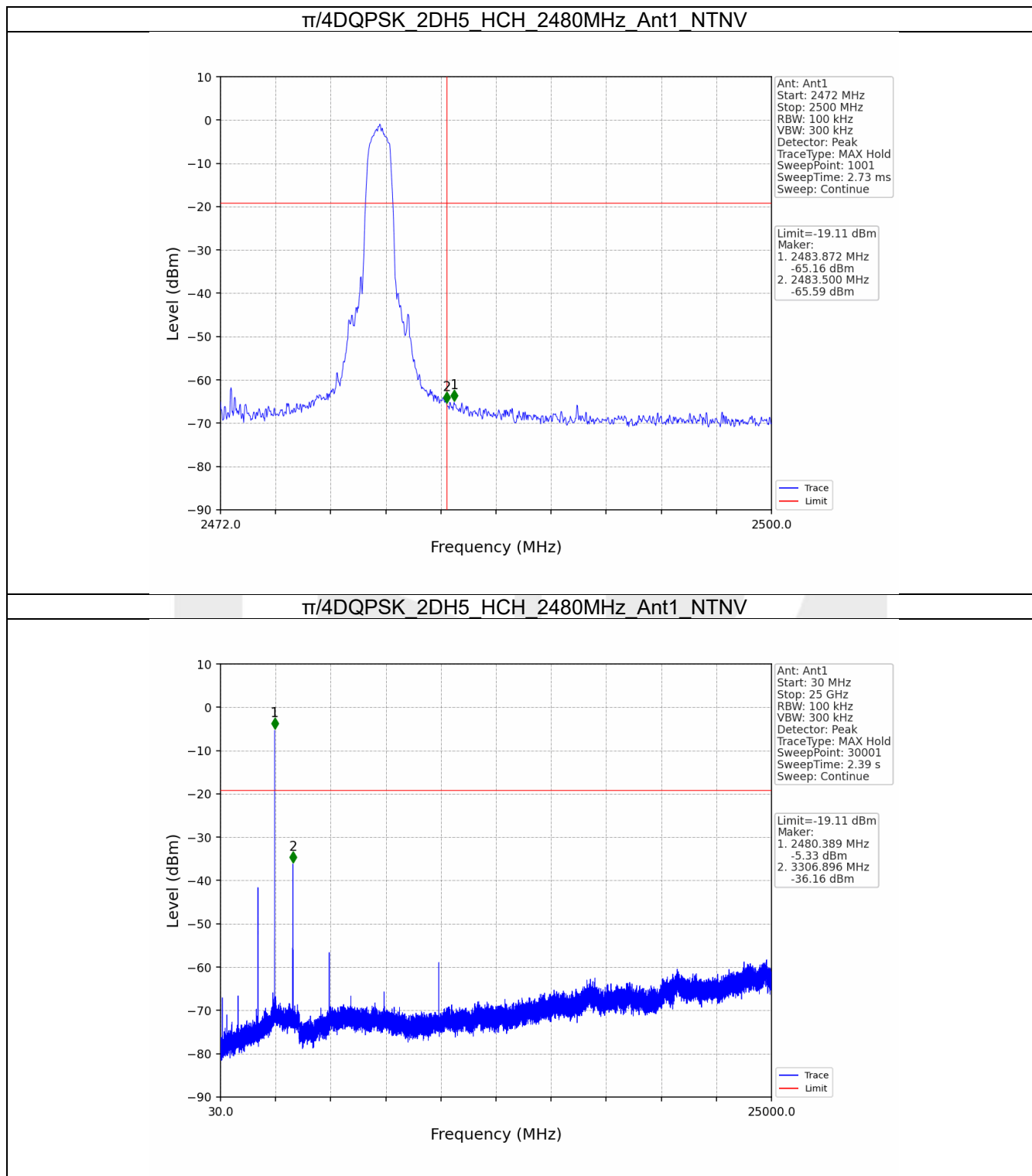


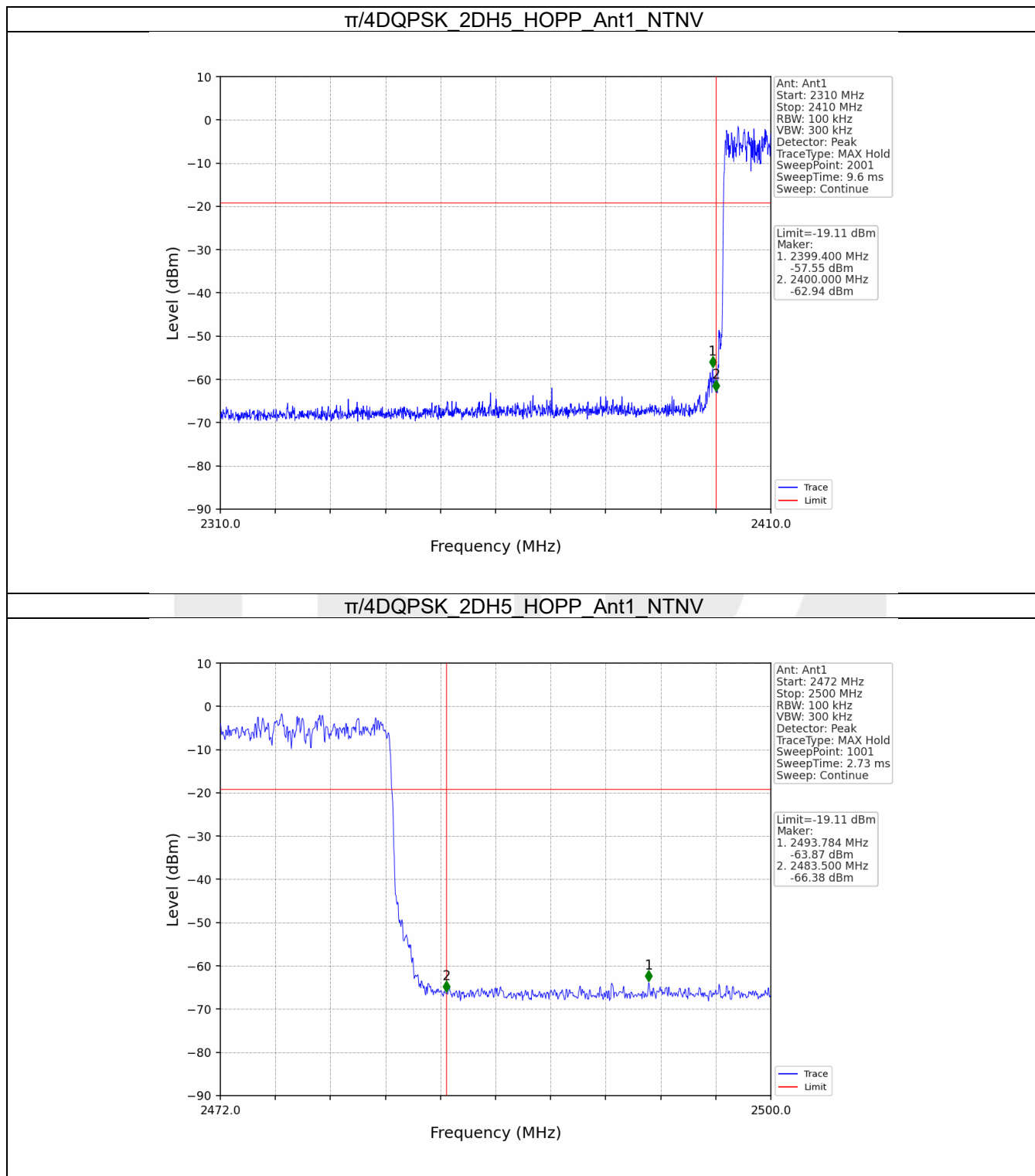












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