

ANNEX D TEST DATA

For

Project No.:	8227EU012213W
Client:	SKG Health Technologies Co., Ltd.
Product Name:	SKG Watch GT5
Model No.:	S3953AC
FCC ID:	2AYVT-S3953AC
Technology:	Bluetooth BDR&EDR
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-03-27

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

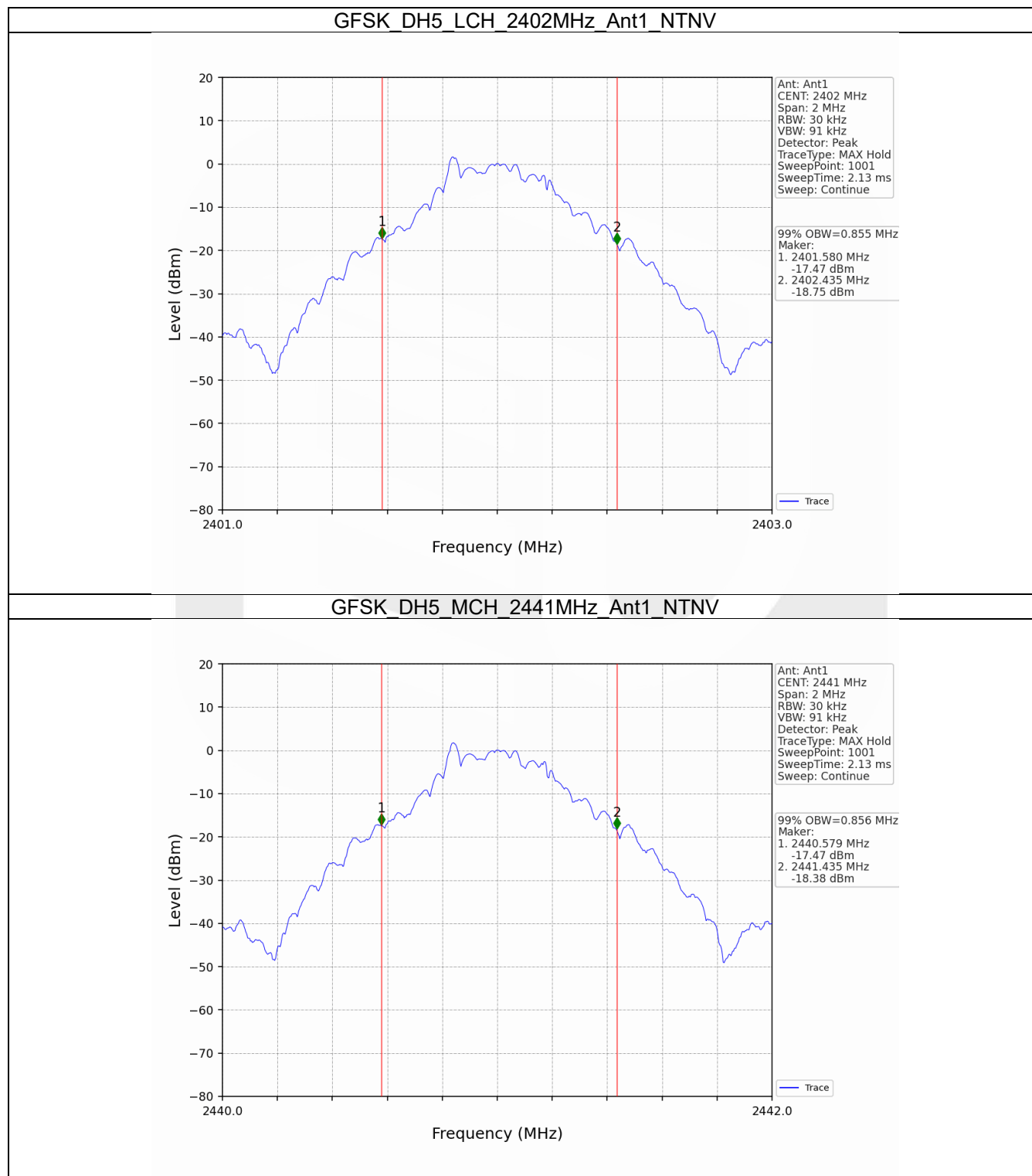
1. Bandwidth

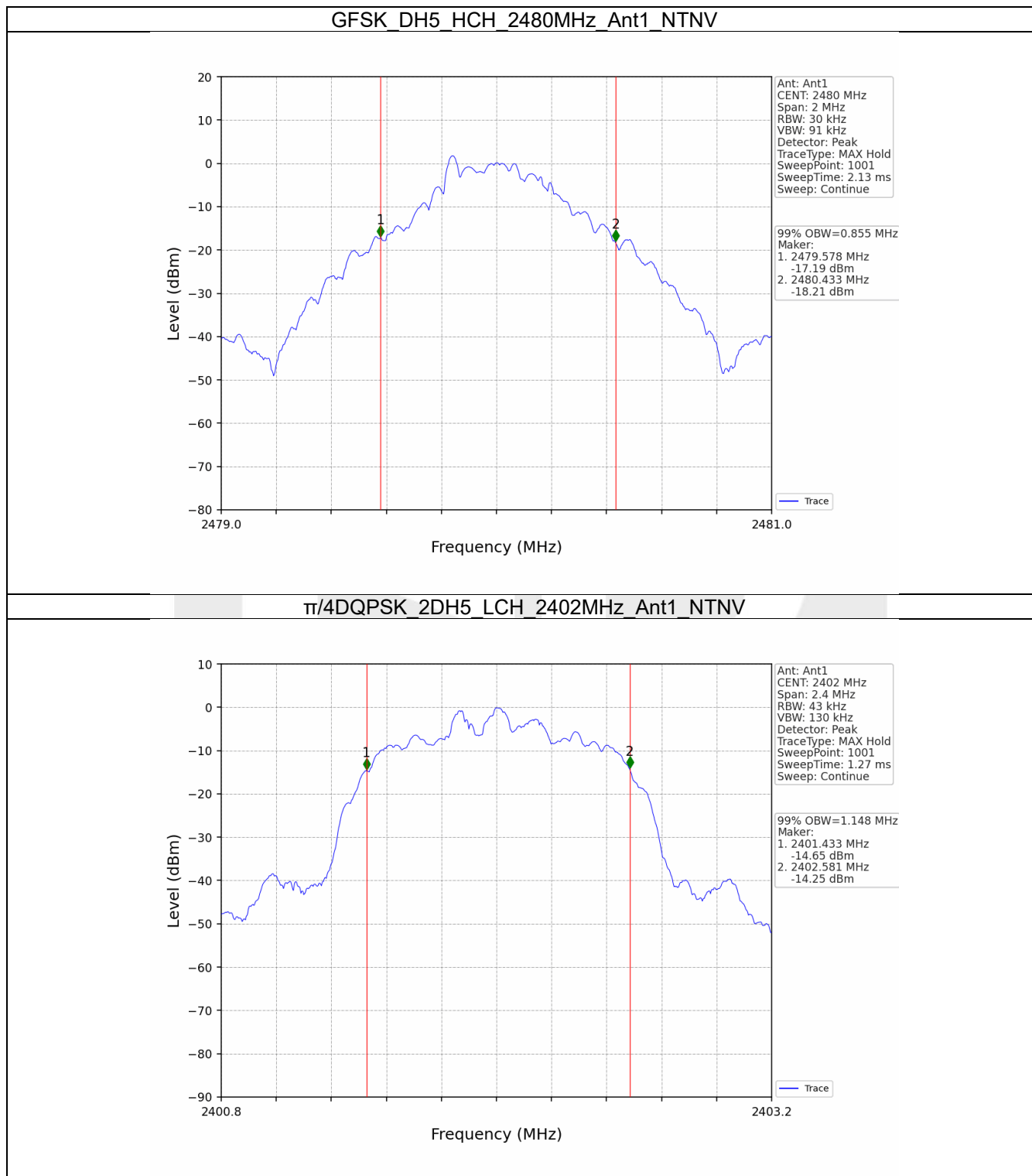
1.1 OBW

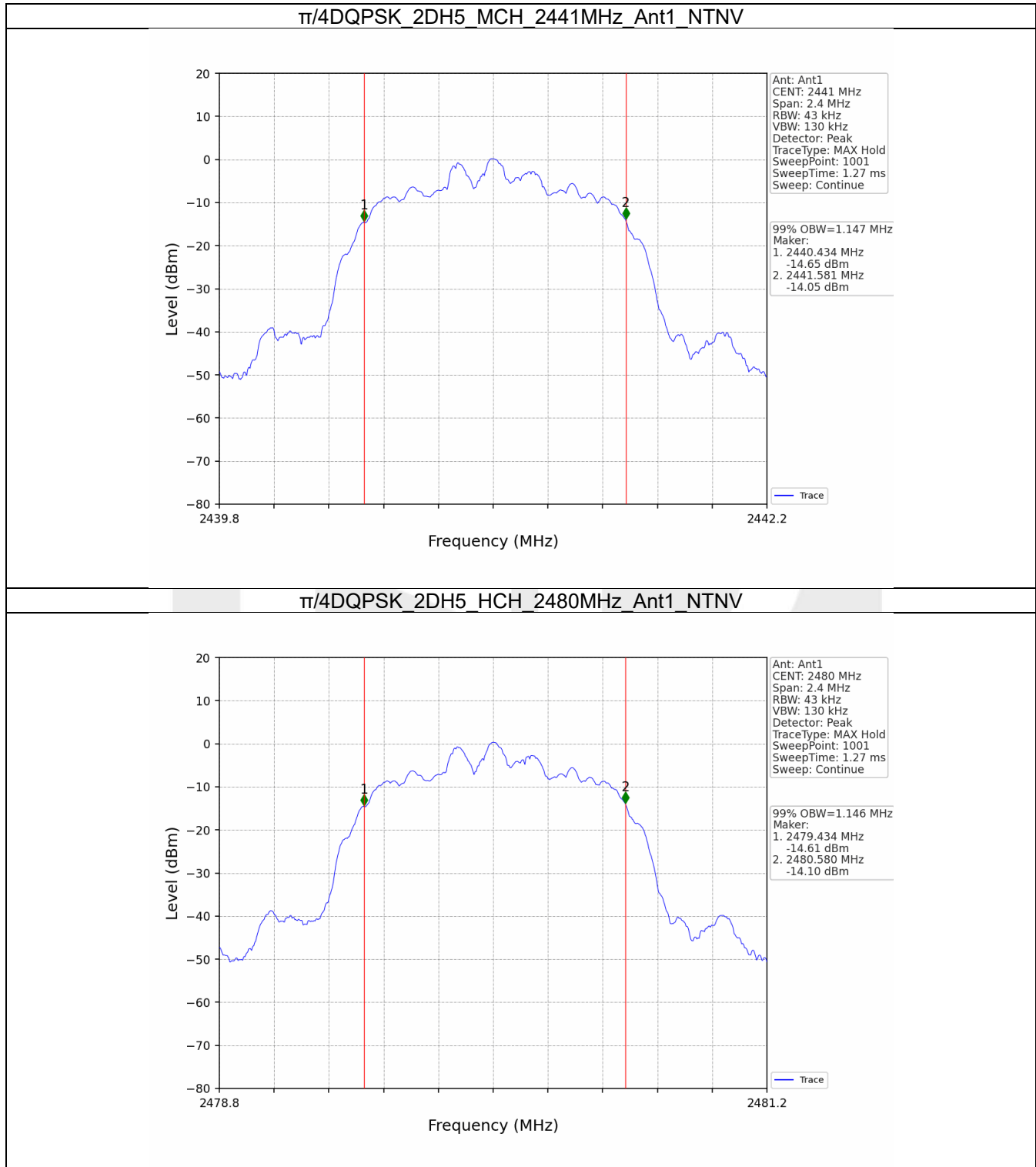
1.1.1 Test Result

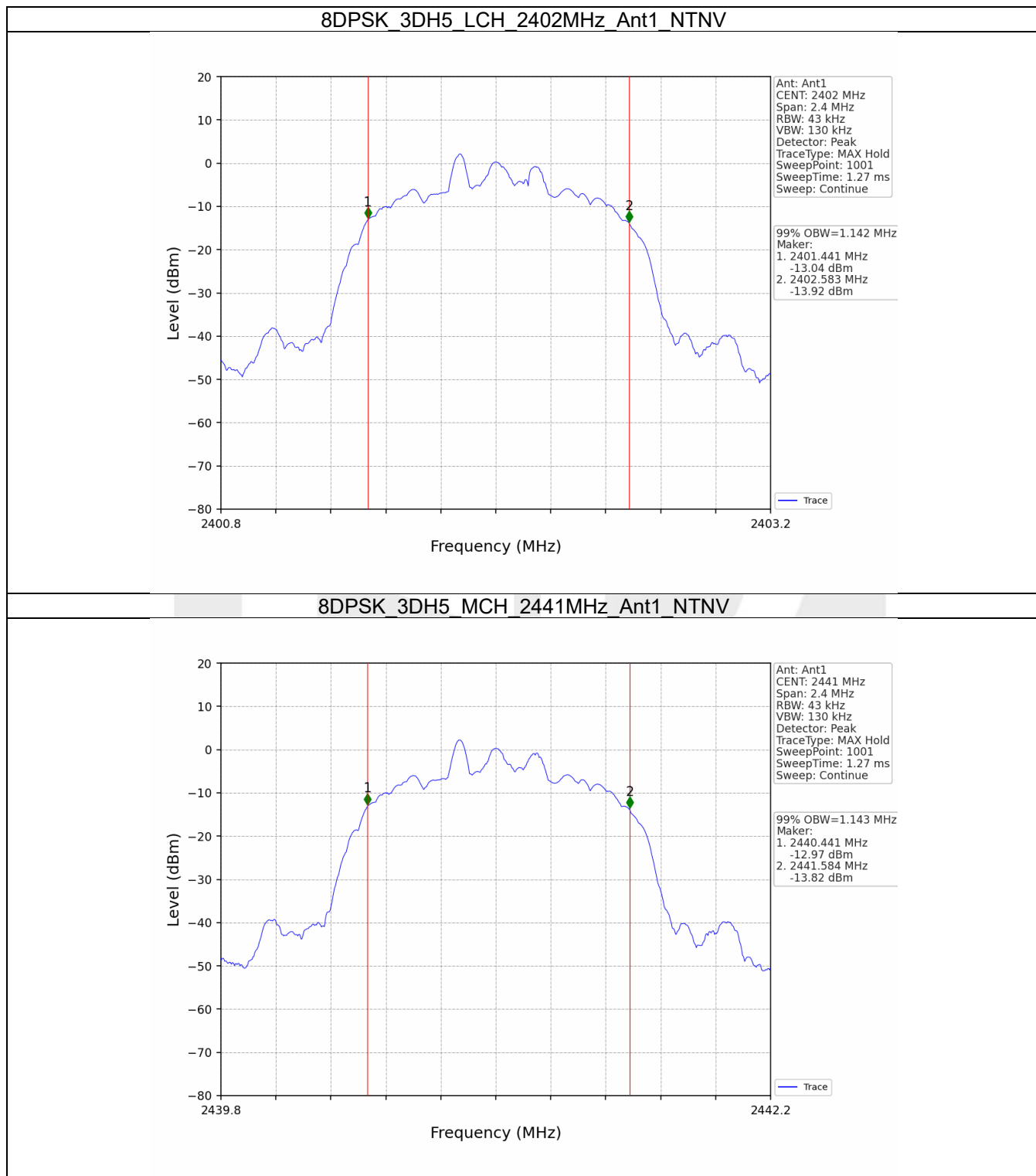
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.855	Pass
		2441	DH5	1	0.856	Pass
		2480	DH5	1	0.855	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.148	Pass
		2441	2DH5	1	1.147	Pass
		2480	2DH5	1	1.146	Pass
8DPSK	SISO	2402	3DH5	1	1.142	Pass
		2441	3DH5	1	1.143	Pass
		2480	3DH5	1	1.145	Pass

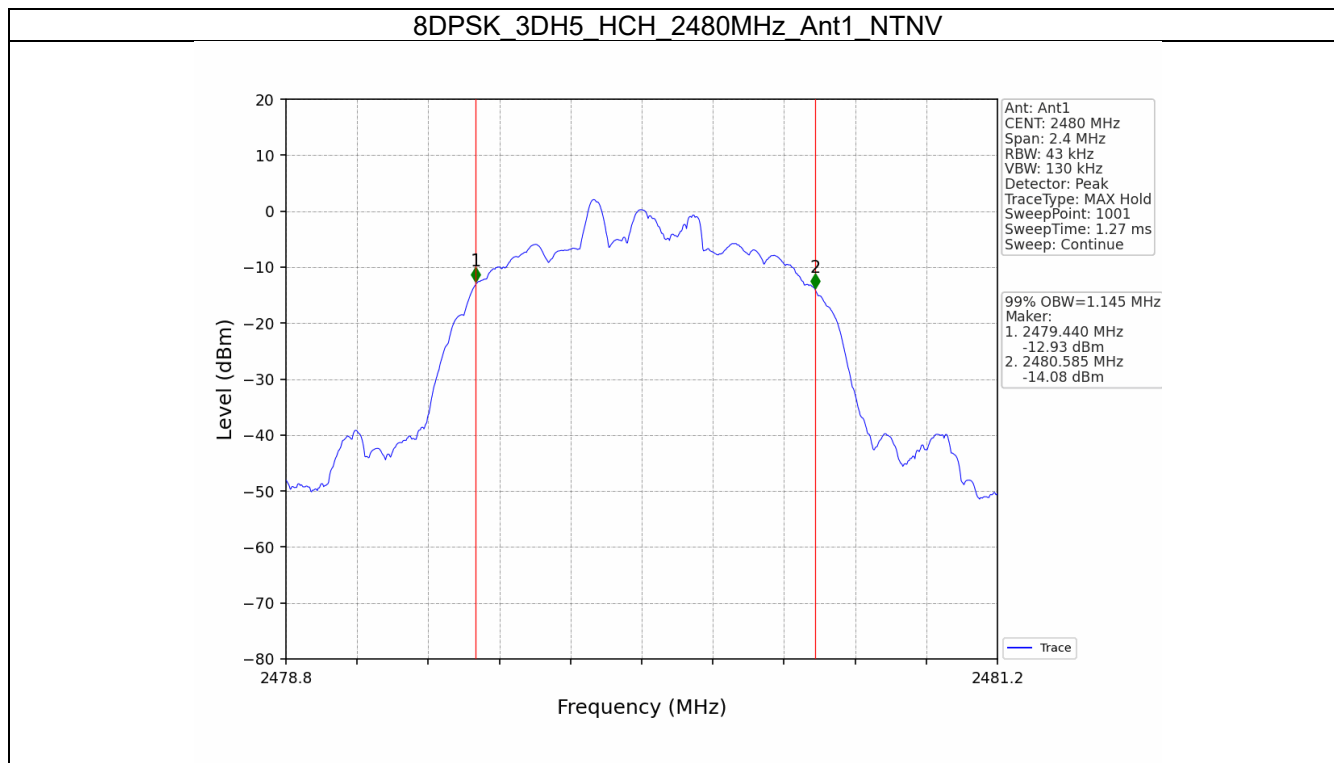
1.1.2 Test Graph









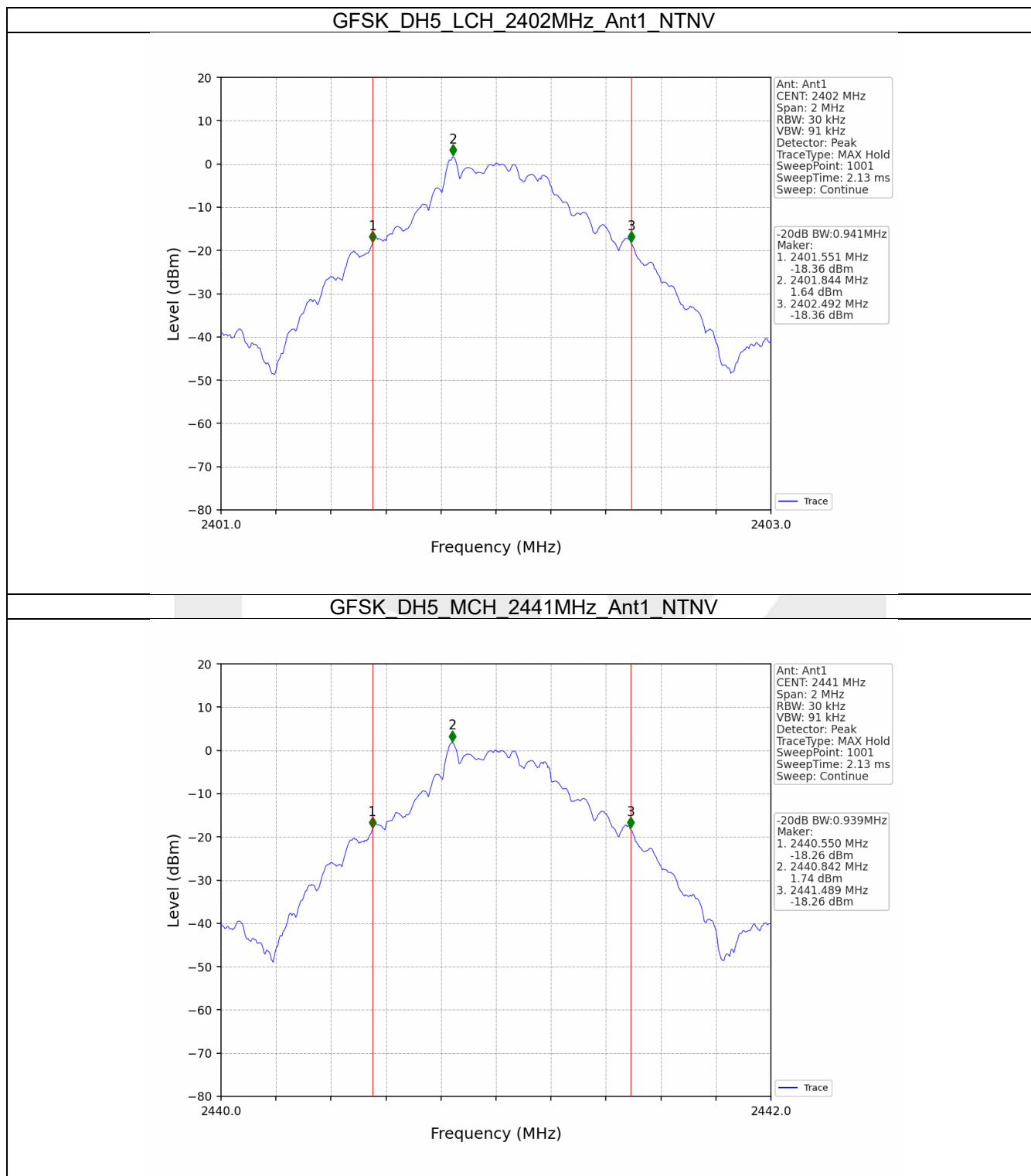


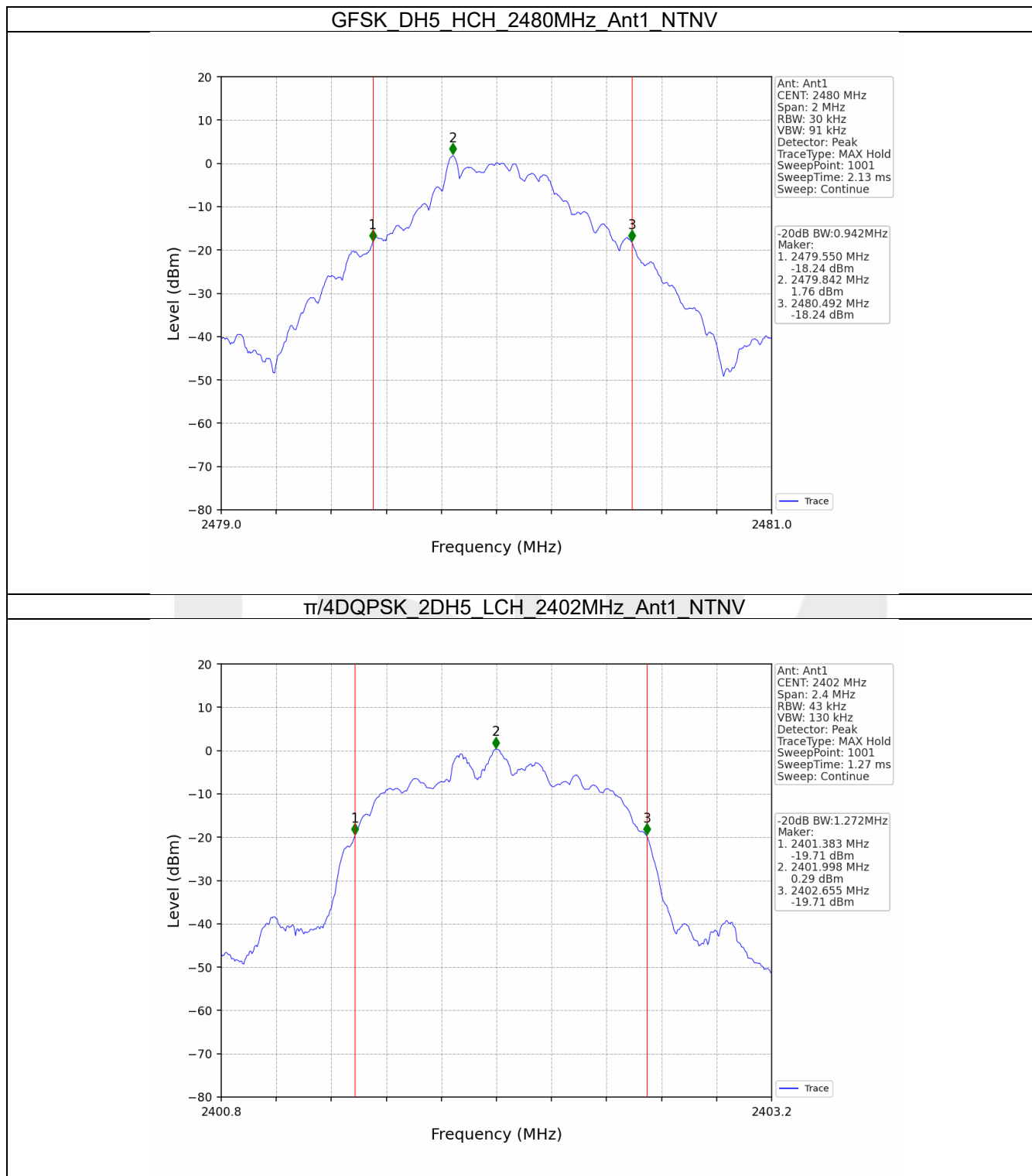
1.2 20dB BW

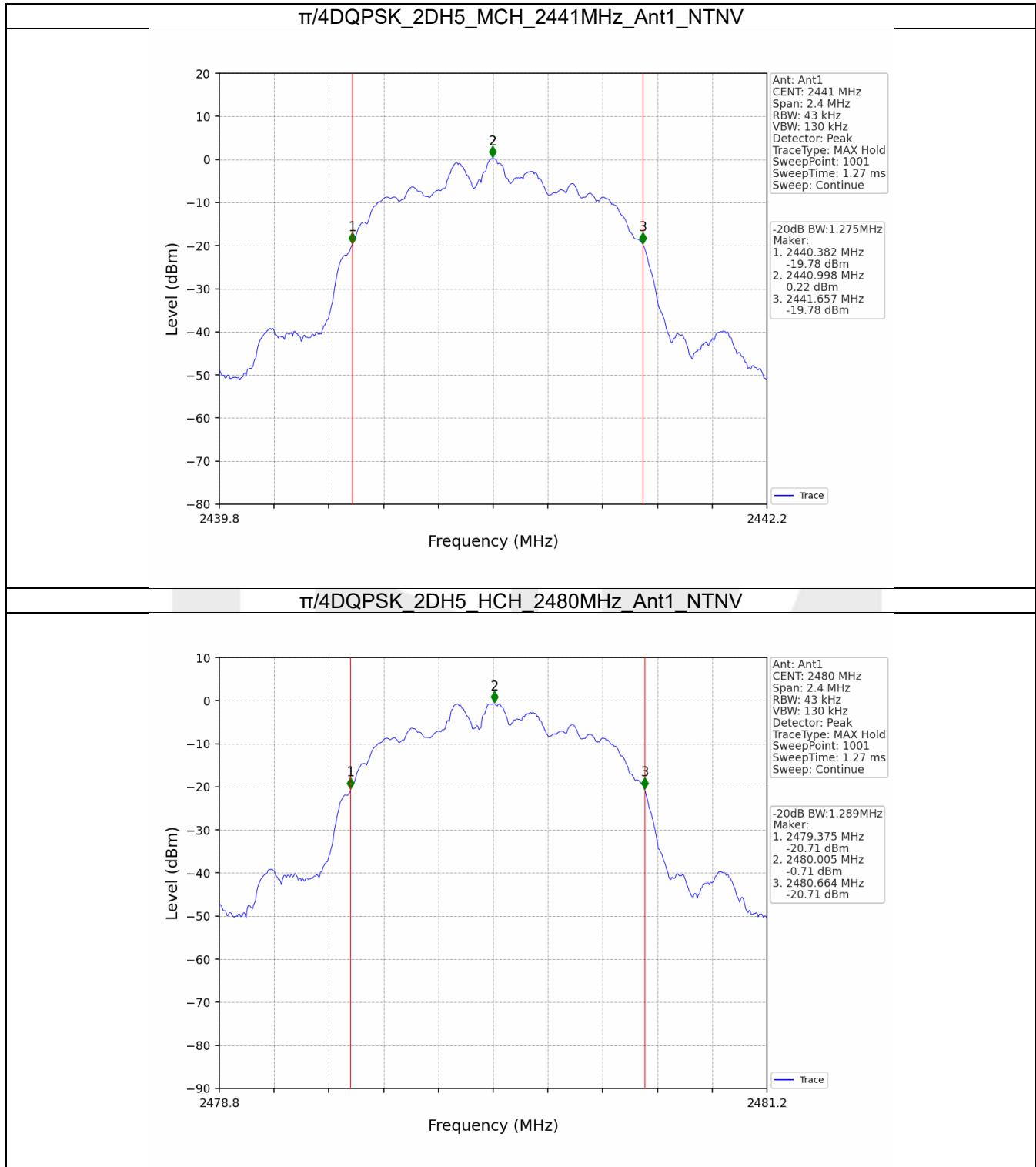
1.2.1 Test Result

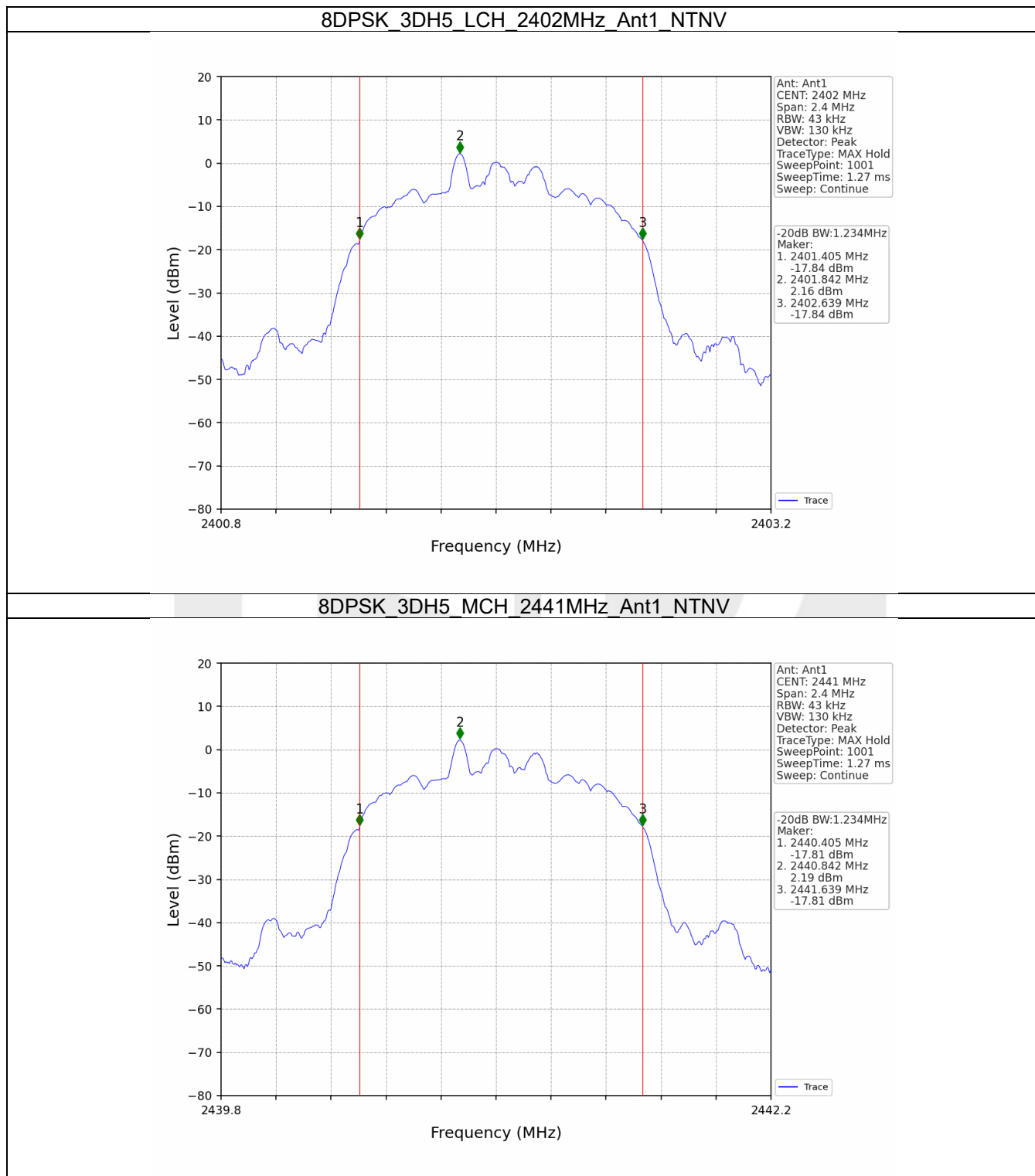
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.941	Pass
		2441	DH5	1	0.939	Pass
		2480	DH5	1	0.942	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.272	Pass
		2441	2DH5	1	1.275	Pass
		2480	2DH5	1	1.289	Pass
8DPSK	SISO	2402	3DH5	1	1.234	Pass
		2441	3DH5	1	1.234	Pass
		2480	3DH5	1	1.236	Pass

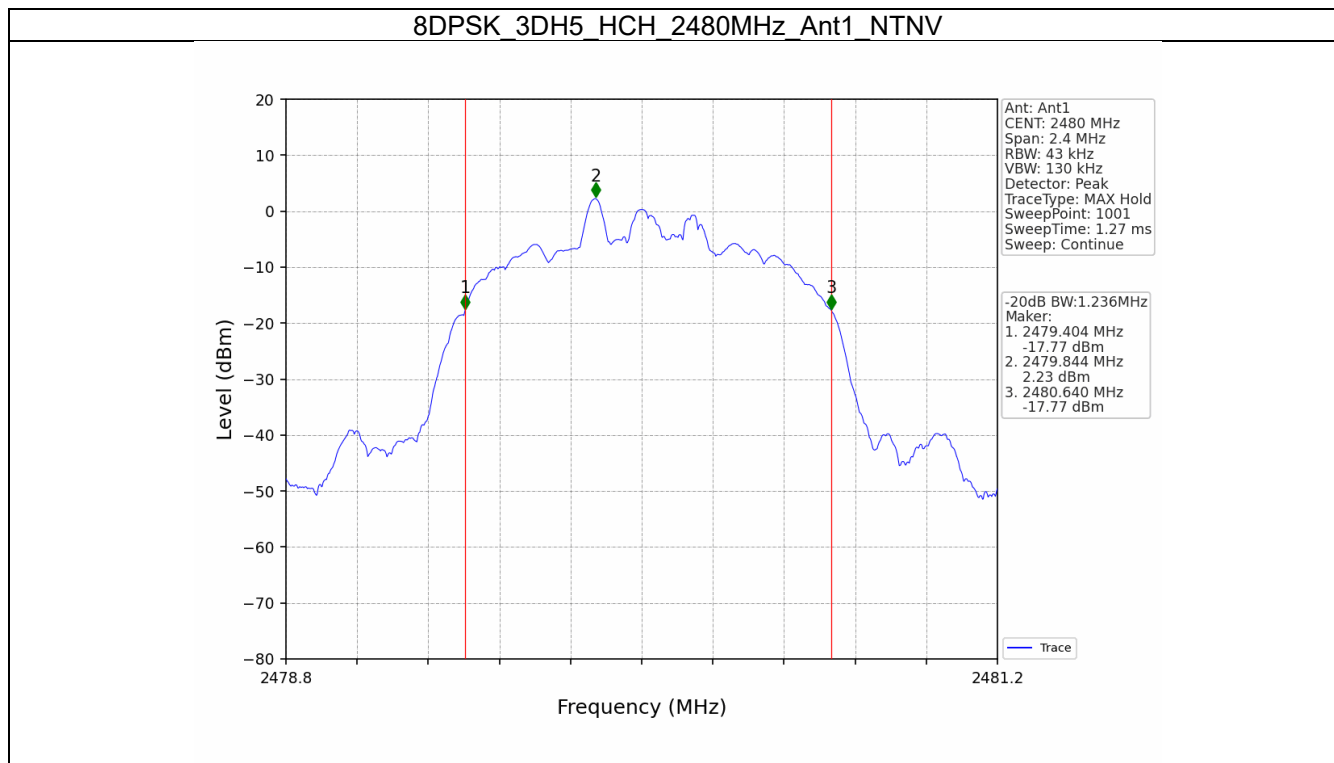
1.2.2 Test Graph











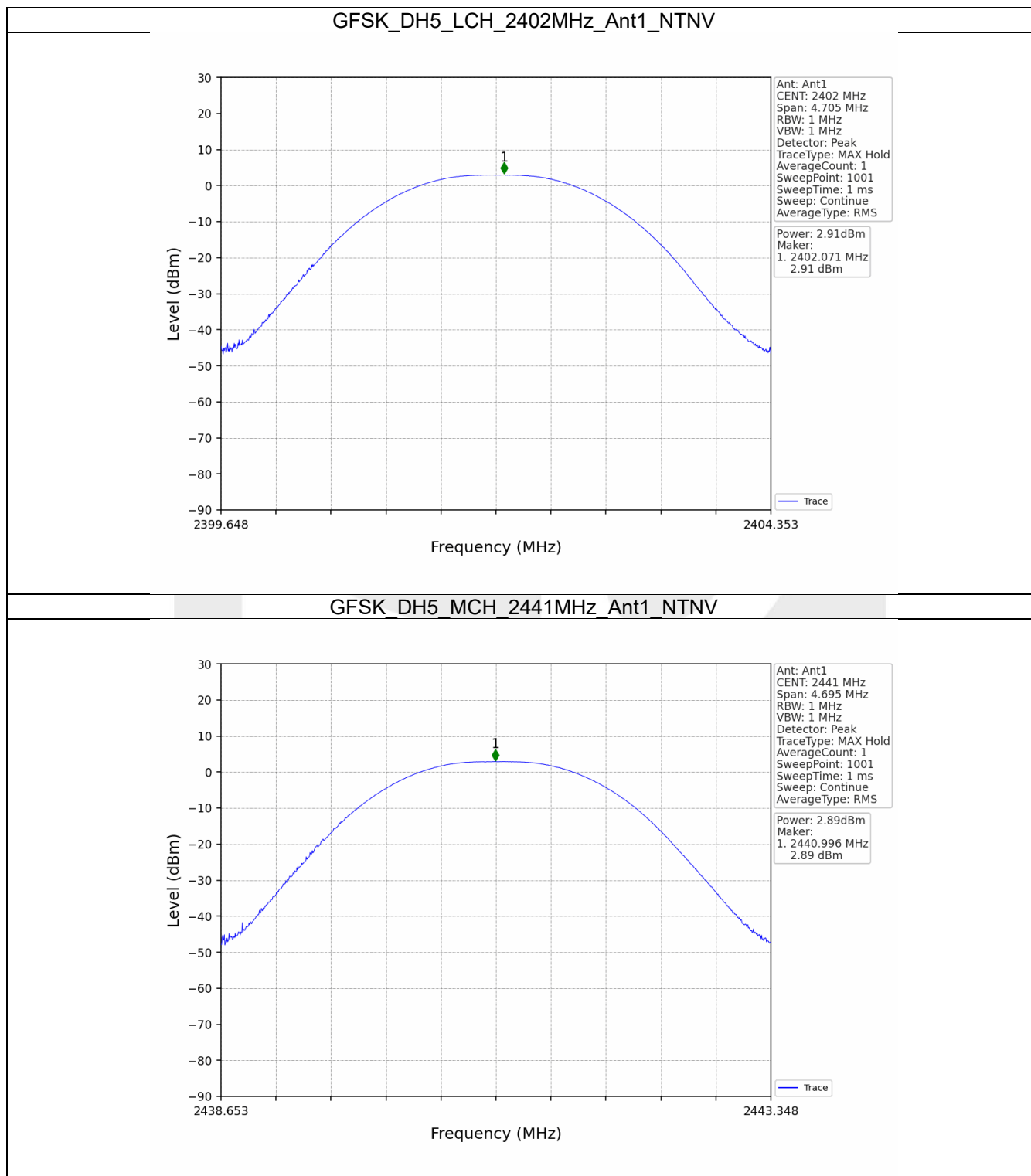
2. Maximum Conducted Output Power

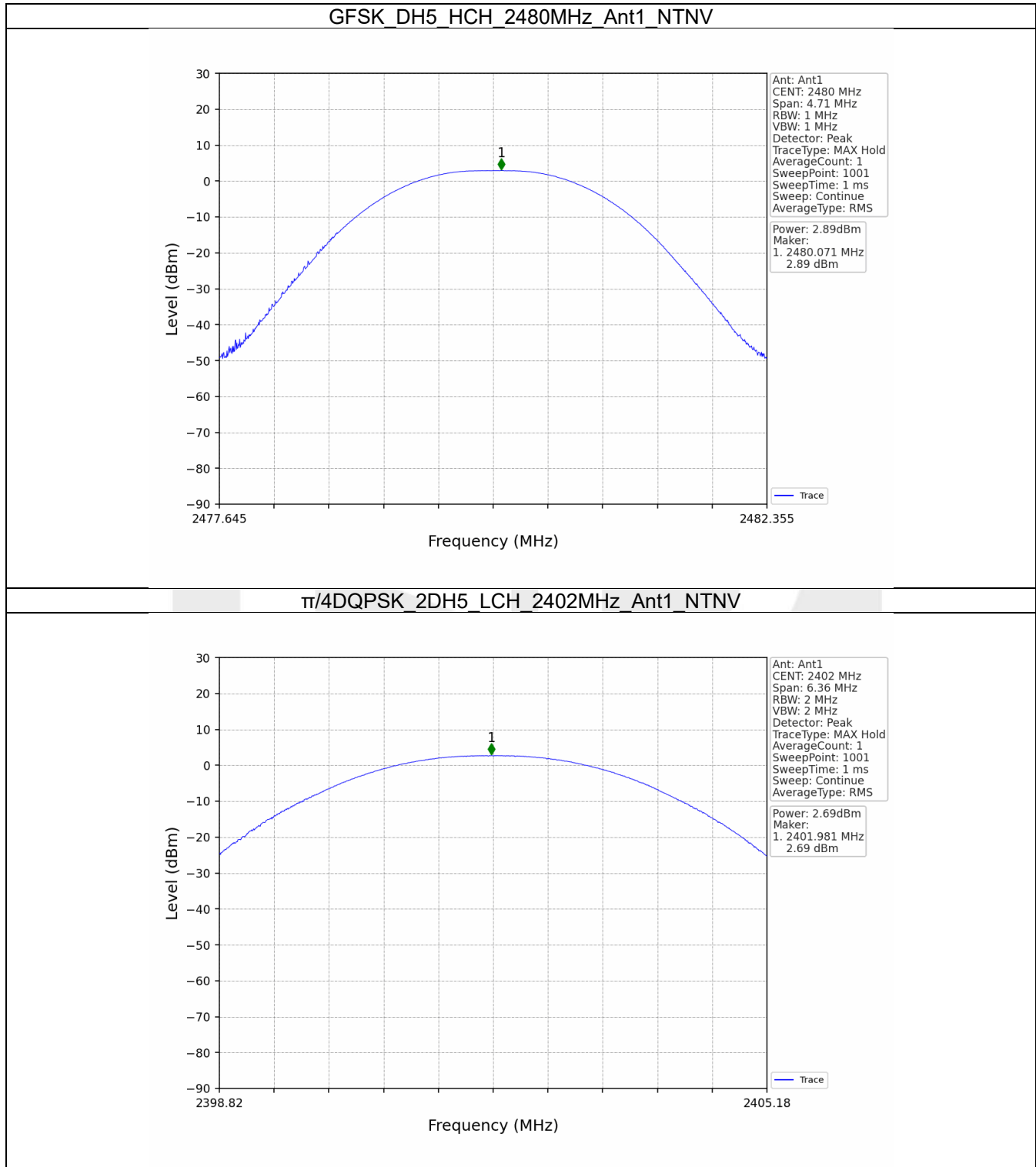
2.1 Power

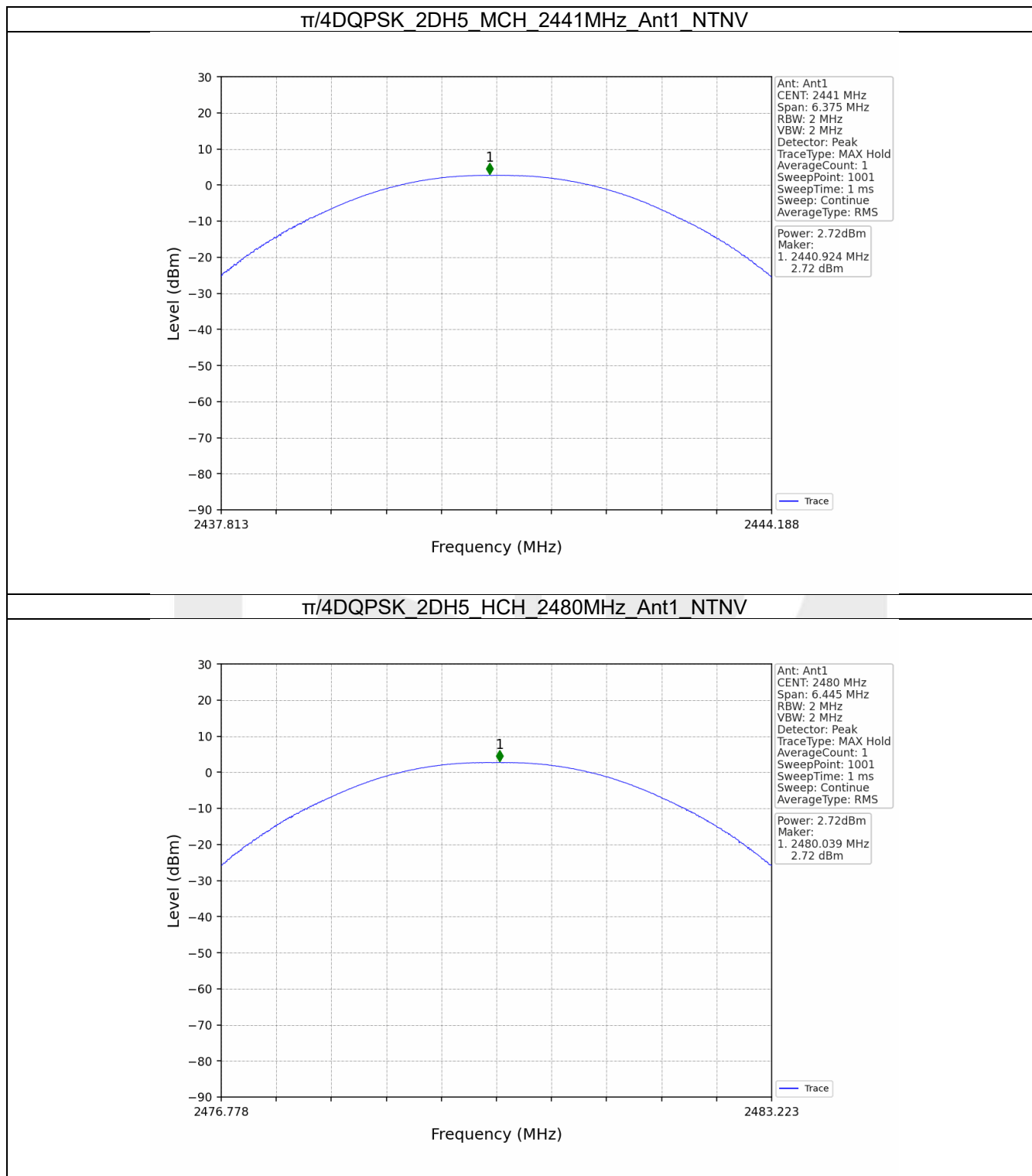
2.1.1 Test Result

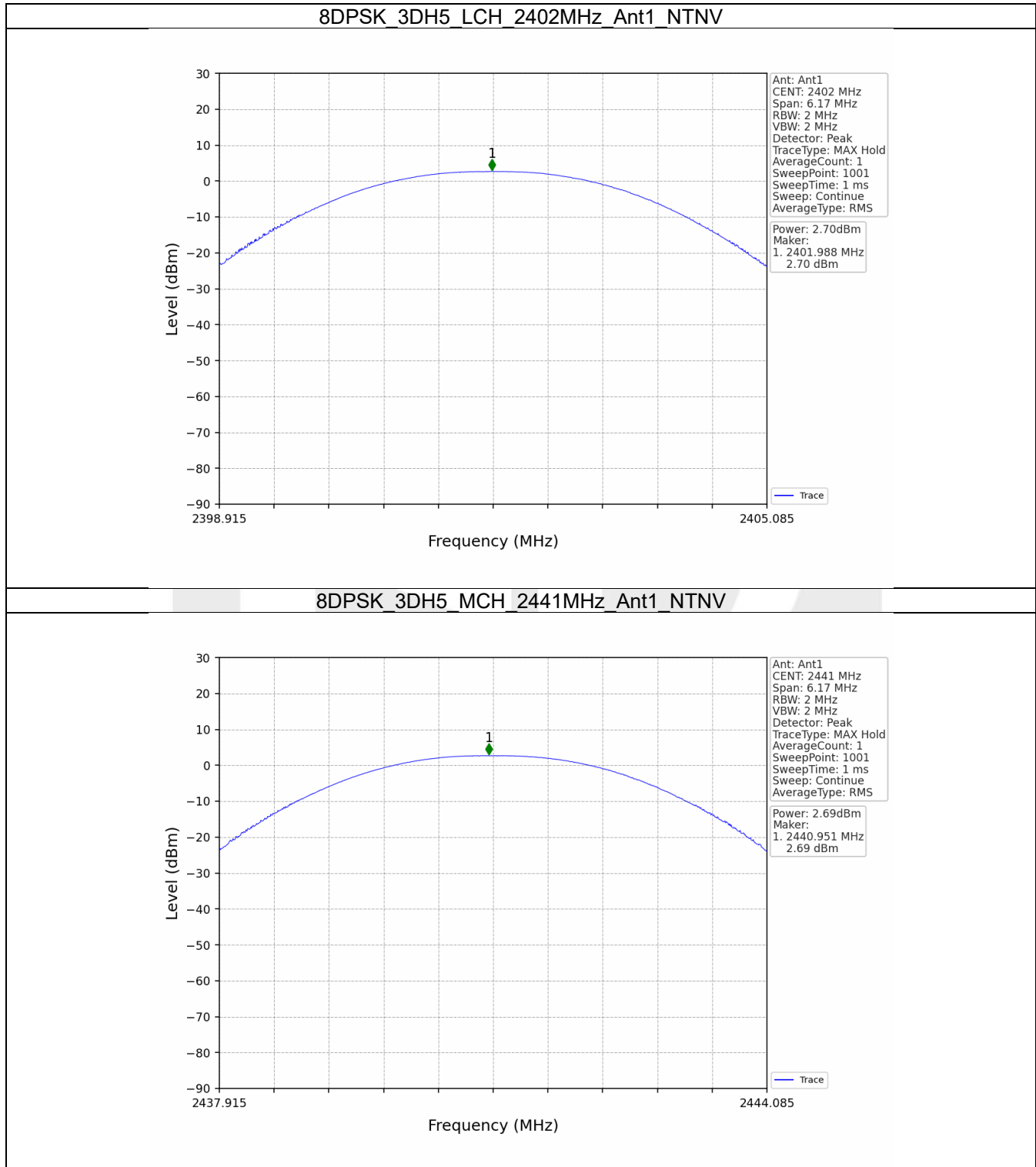
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	2.91	≤ 30	Pass
		2441	DH5	2.89	≤ 30	Pass
		2480	DH5	2.89	≤ 30	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	2.69	≤ 20.97	Pass
		2441	2DH5	2.72	≤ 20.97	Pass
		2480	2DH5	2.72	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	2.70	≤ 20.97	Pass
		2441	3DH5	2.69	≤ 20.97	Pass
		2480	3DH5	2.74	≤ 20.97	Pass

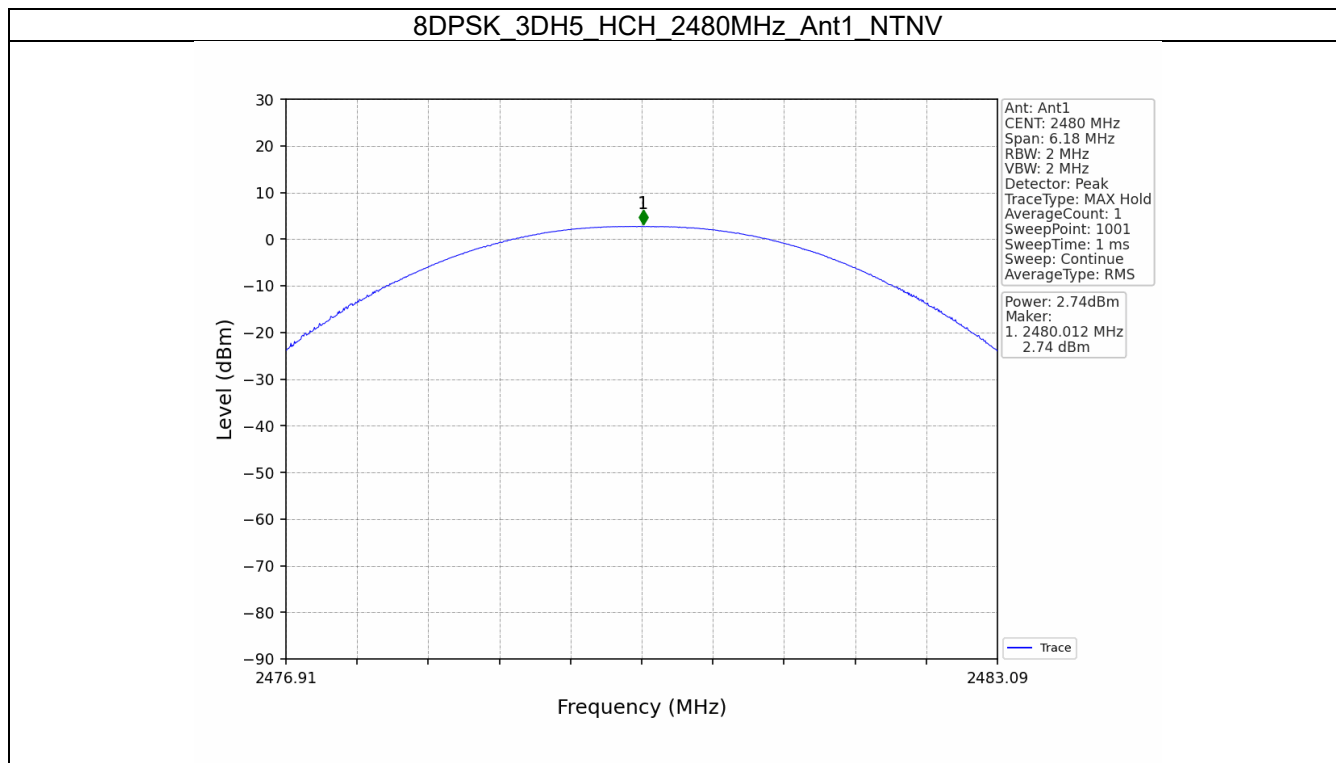
2.1.2 Test Graph











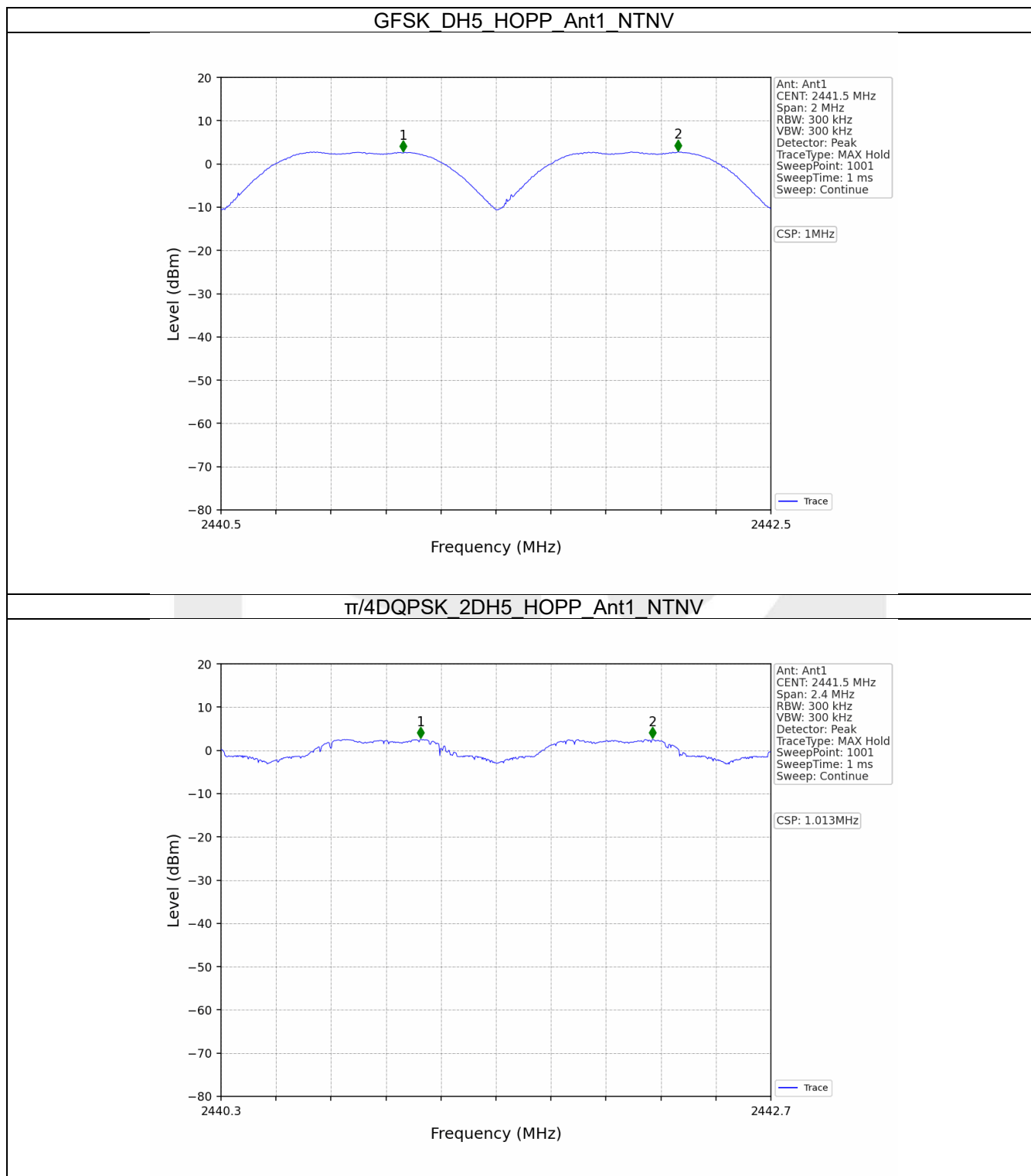
3. Carrier Frequency Separation

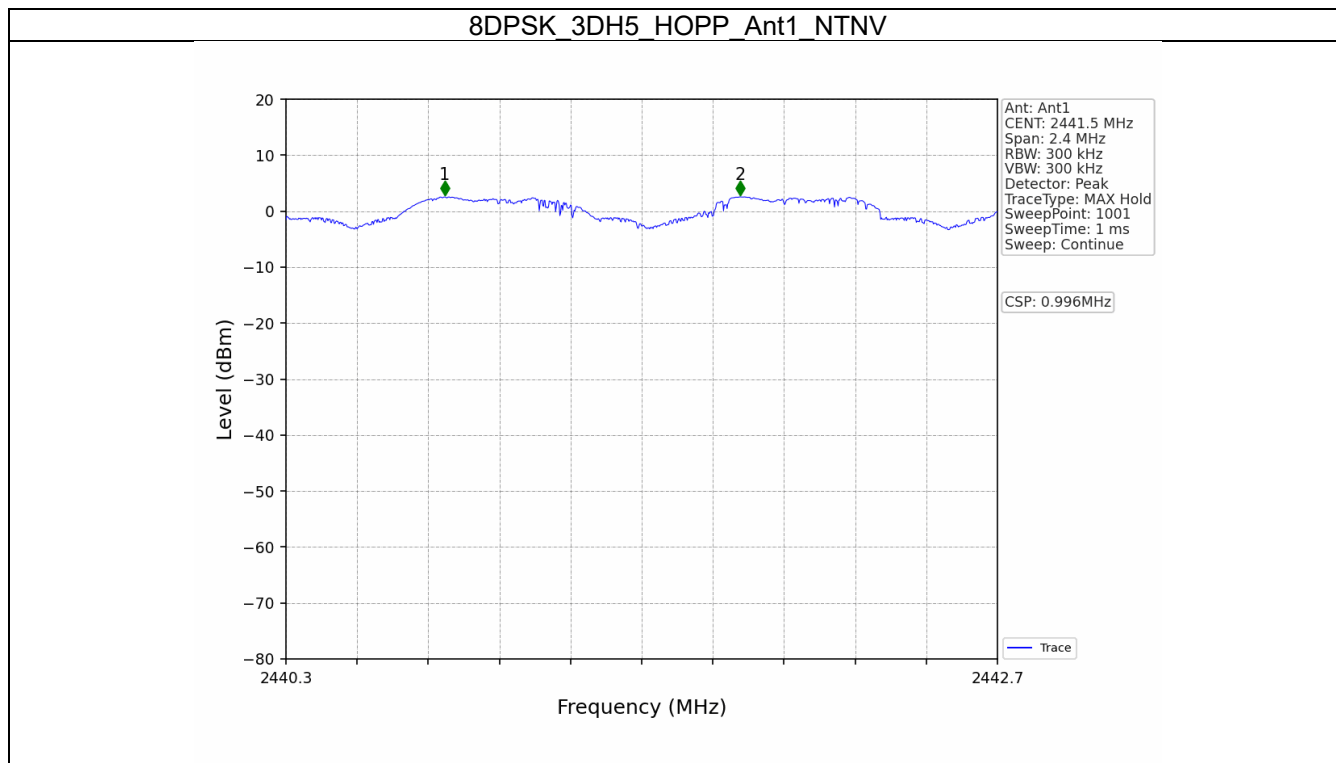
3.1 Ant1

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	1.000	0.942	≥ 0.942	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH5	1.013	1.289	≥ 0.859	Pass
8DPSK	SISO	HOPP	3DH5	0.996	1.236	≥ 0.824	Pass

3.1.2 Test Graph





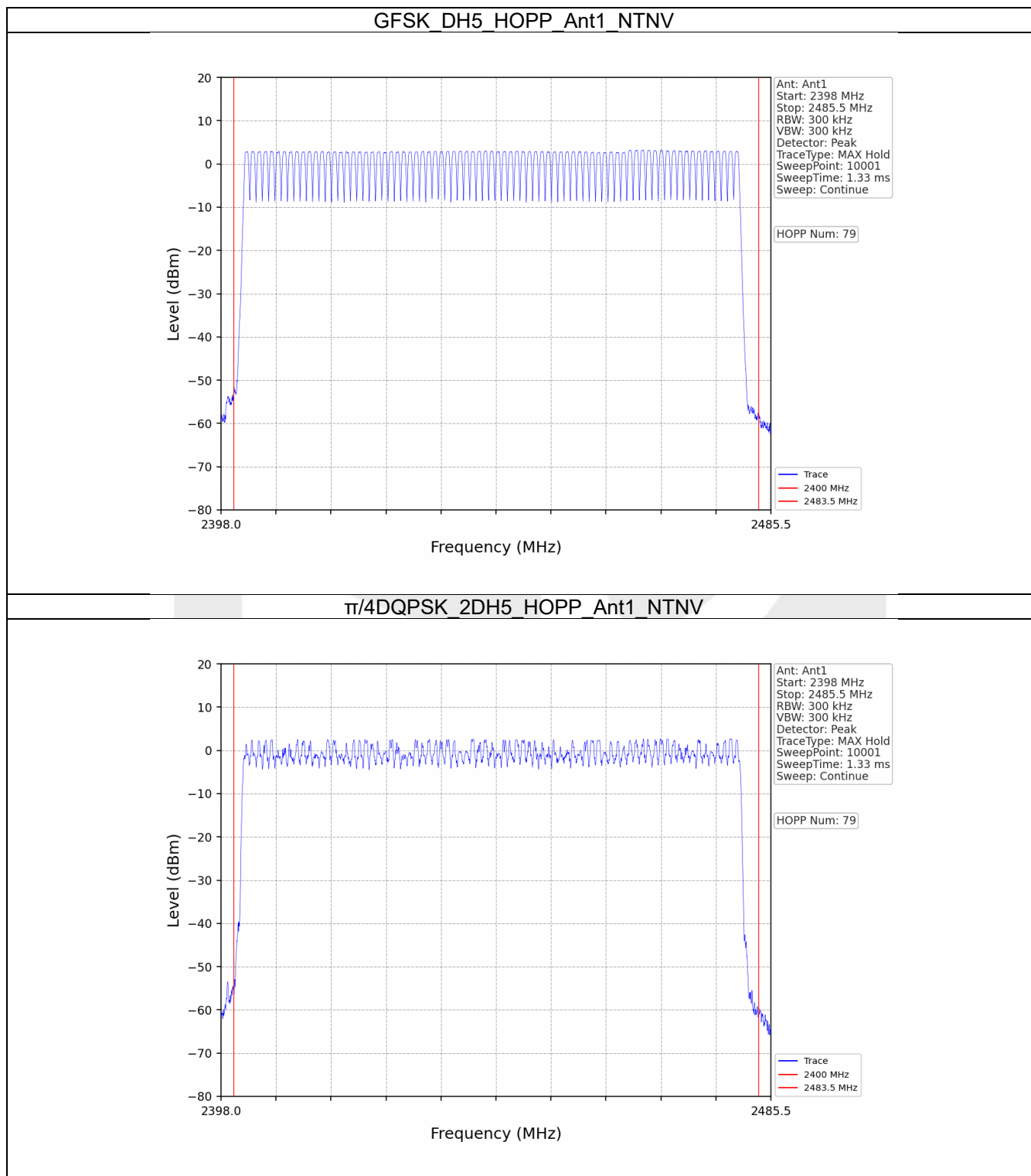
4. Number of Hopping Frequencies

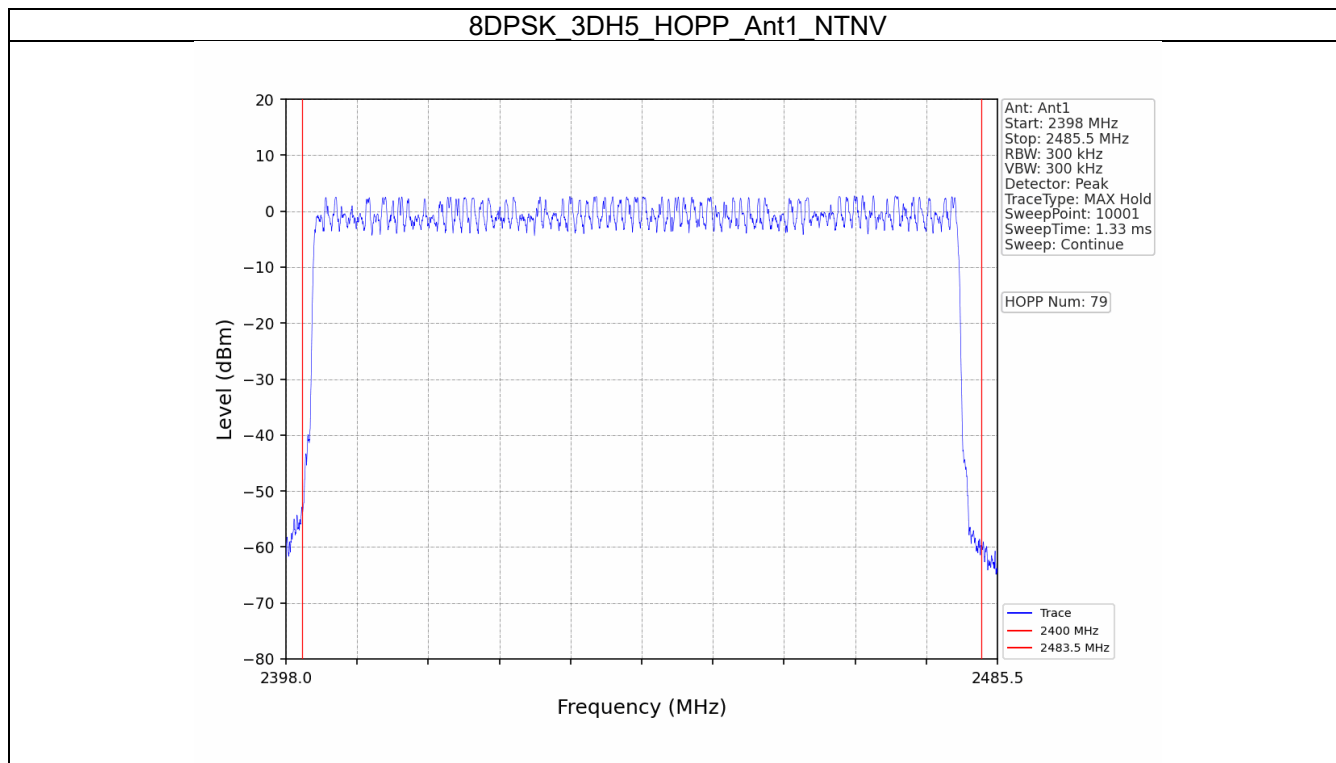
4.1 HoppNum

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
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

4.1.2 Test Graph





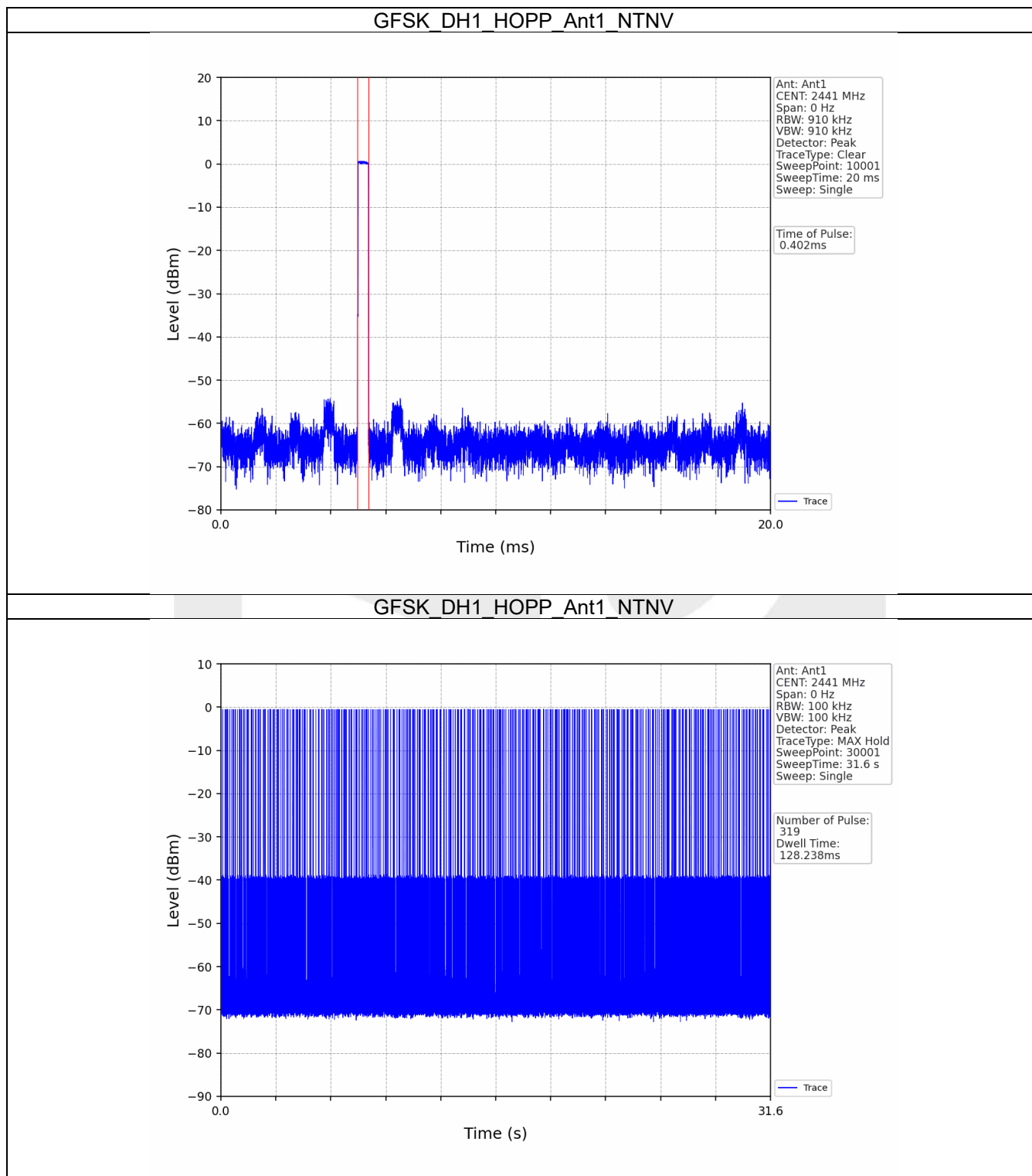
5. Time of Occupancy (Dwell Time)

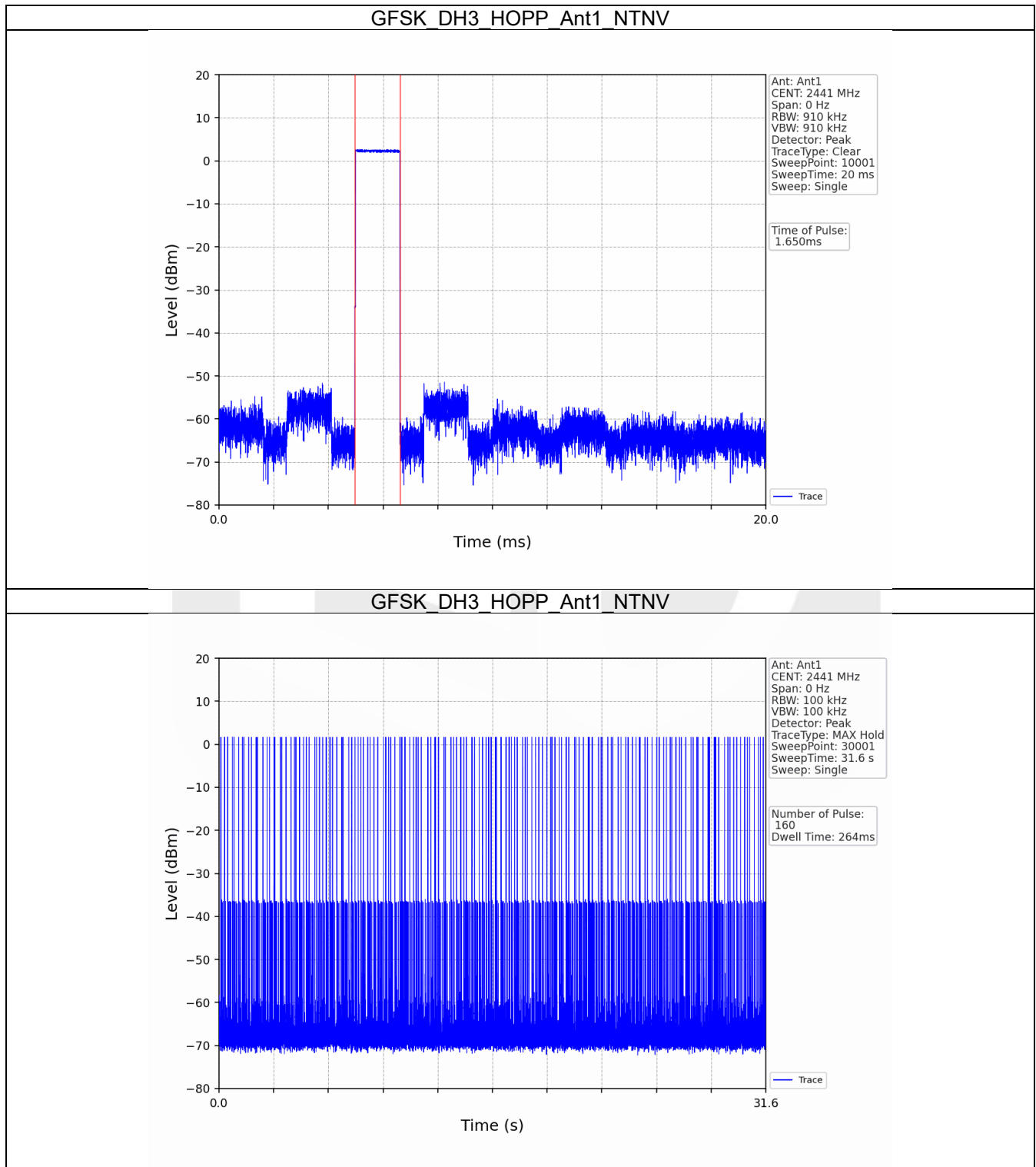
5.1 Ant1

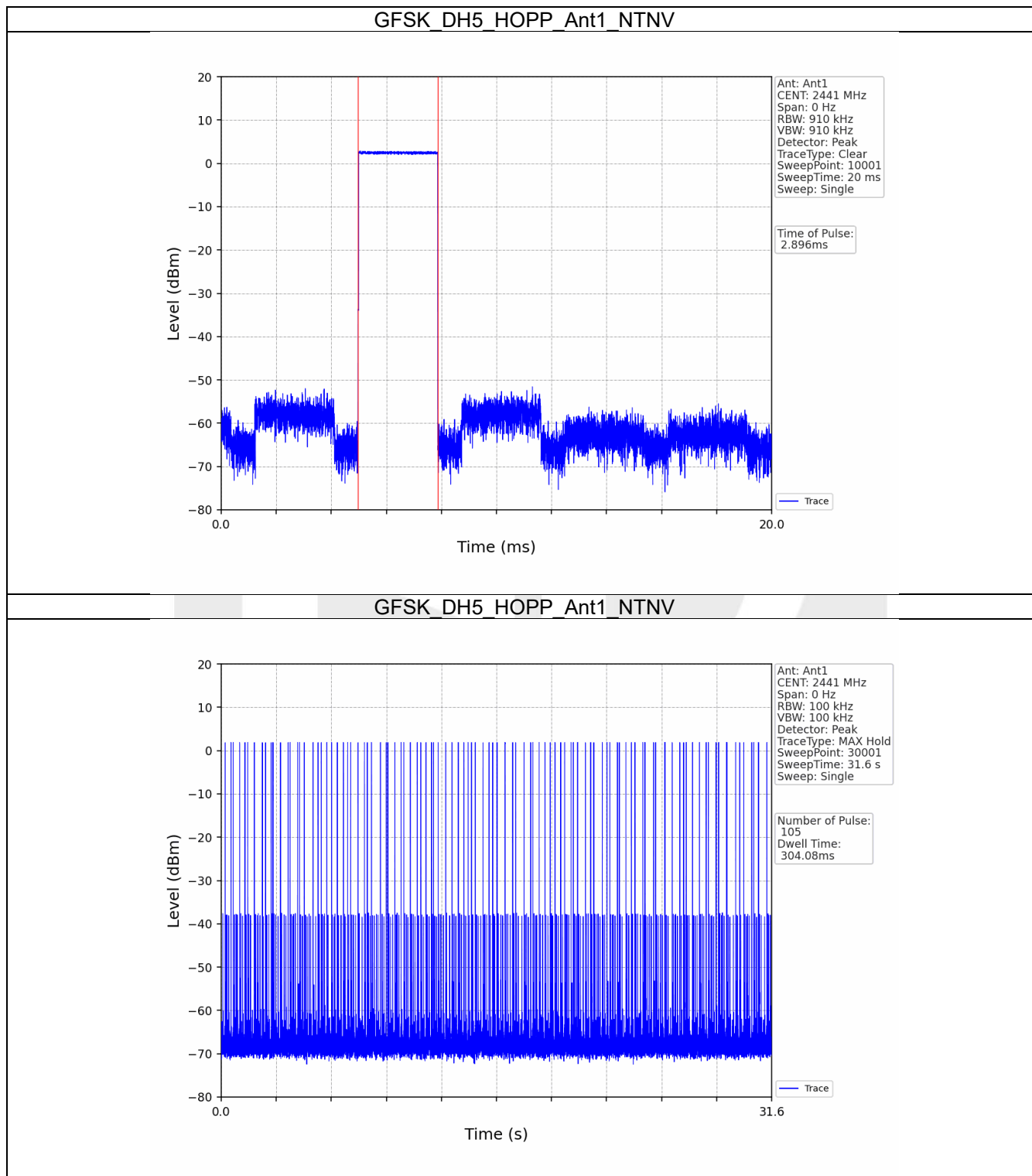
5.1.1 Test Result

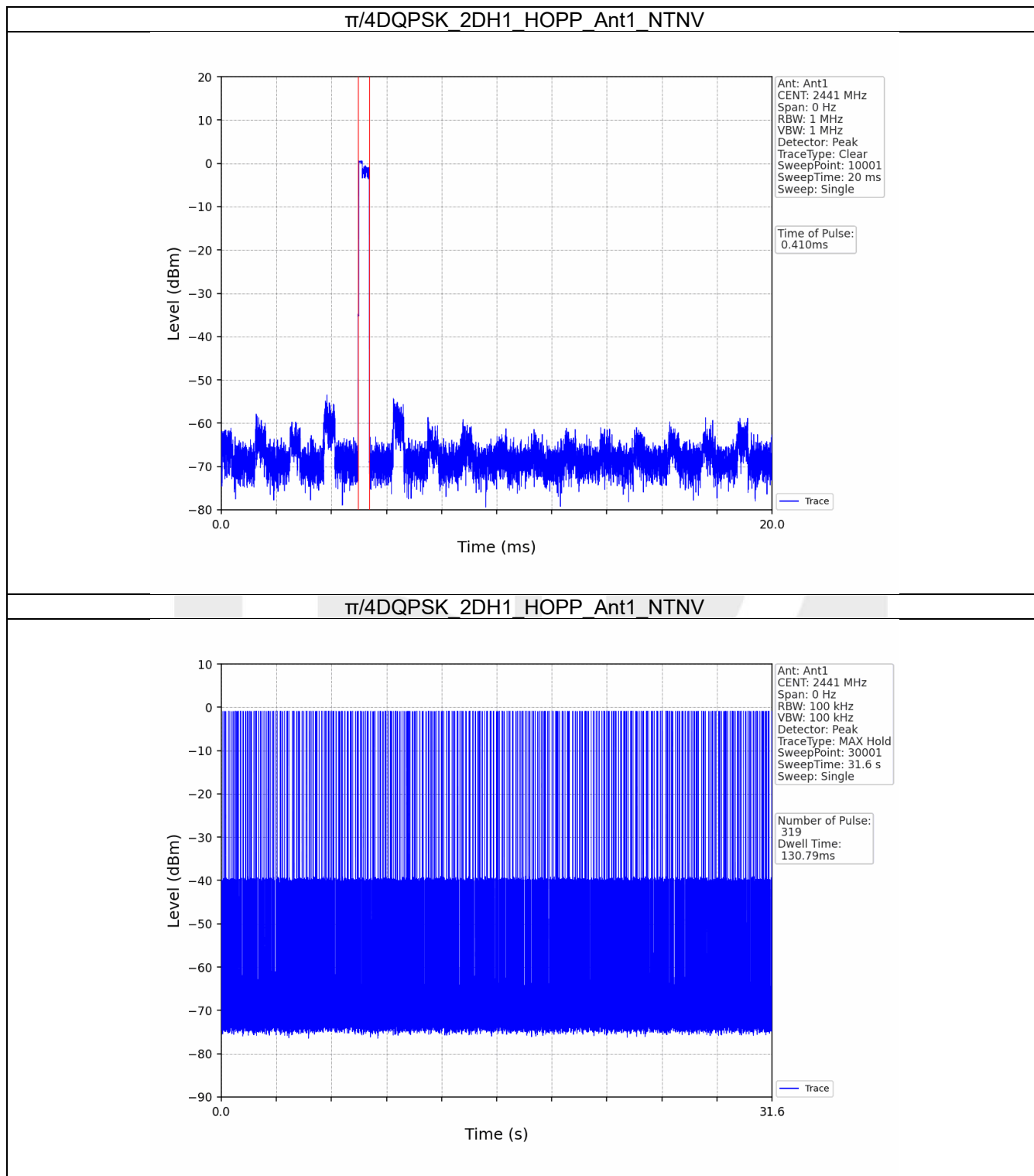
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.402	31.600	319	128.238	<=400	Pass
			DH3	1.650	31.600	160	264.000	<=400	Pass
			DH5	2.896	31.600	105	304.080	<=400	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH1	0.410	31.600	319	130.790	<=400	Pass
			2DH3	1.662	31.600	160	265.920	<=400	Pass
			2DH5	2.910	31.600	106	308.460	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.410	31.600	319	130.790	<=400	Pass
			3DH3	1.660	31.600	161	267.260	<=400	Pass
			3DH5	2.910	31.600	106	308.460	<=400	Pass

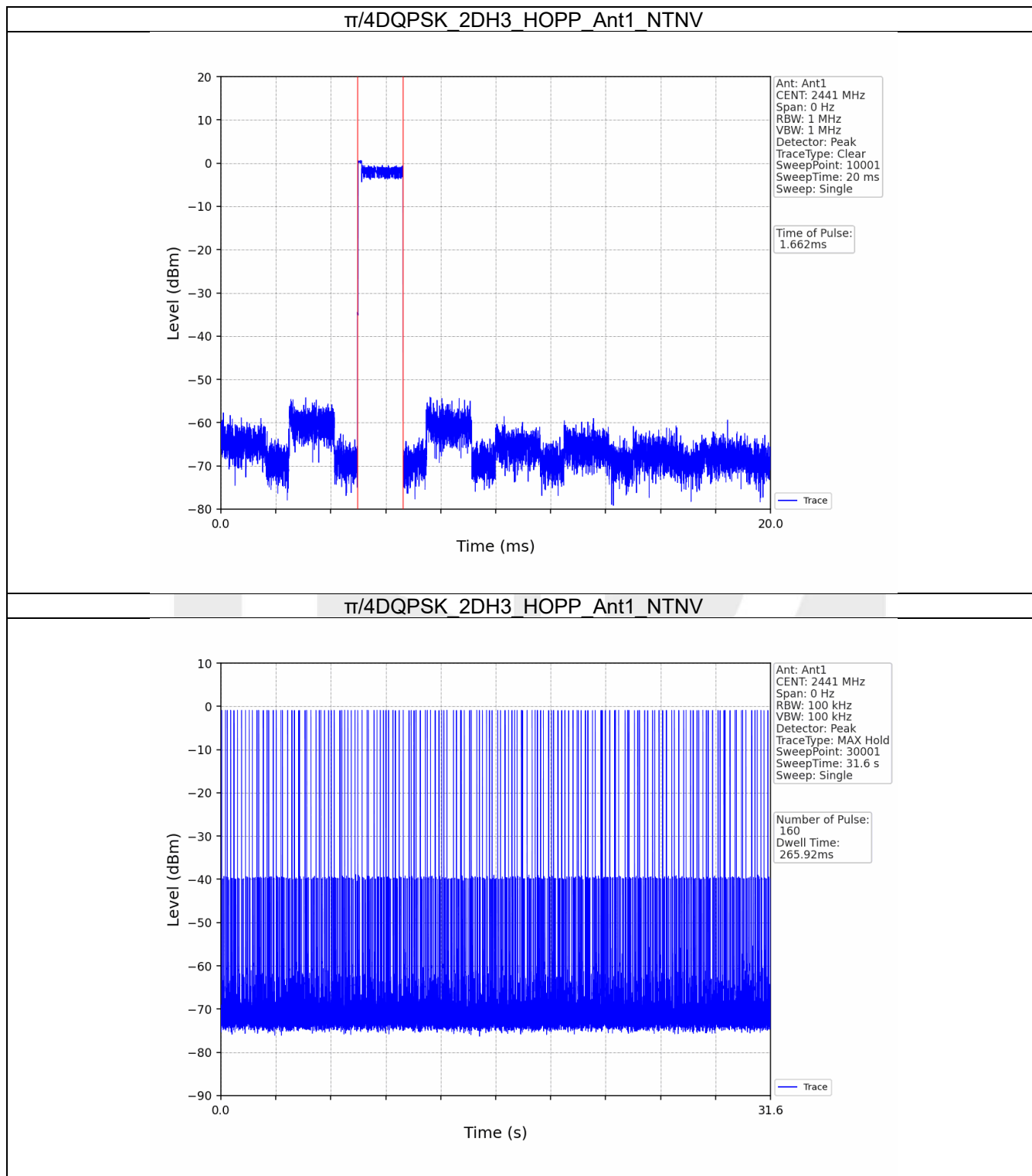
5.1.2 Test Graph

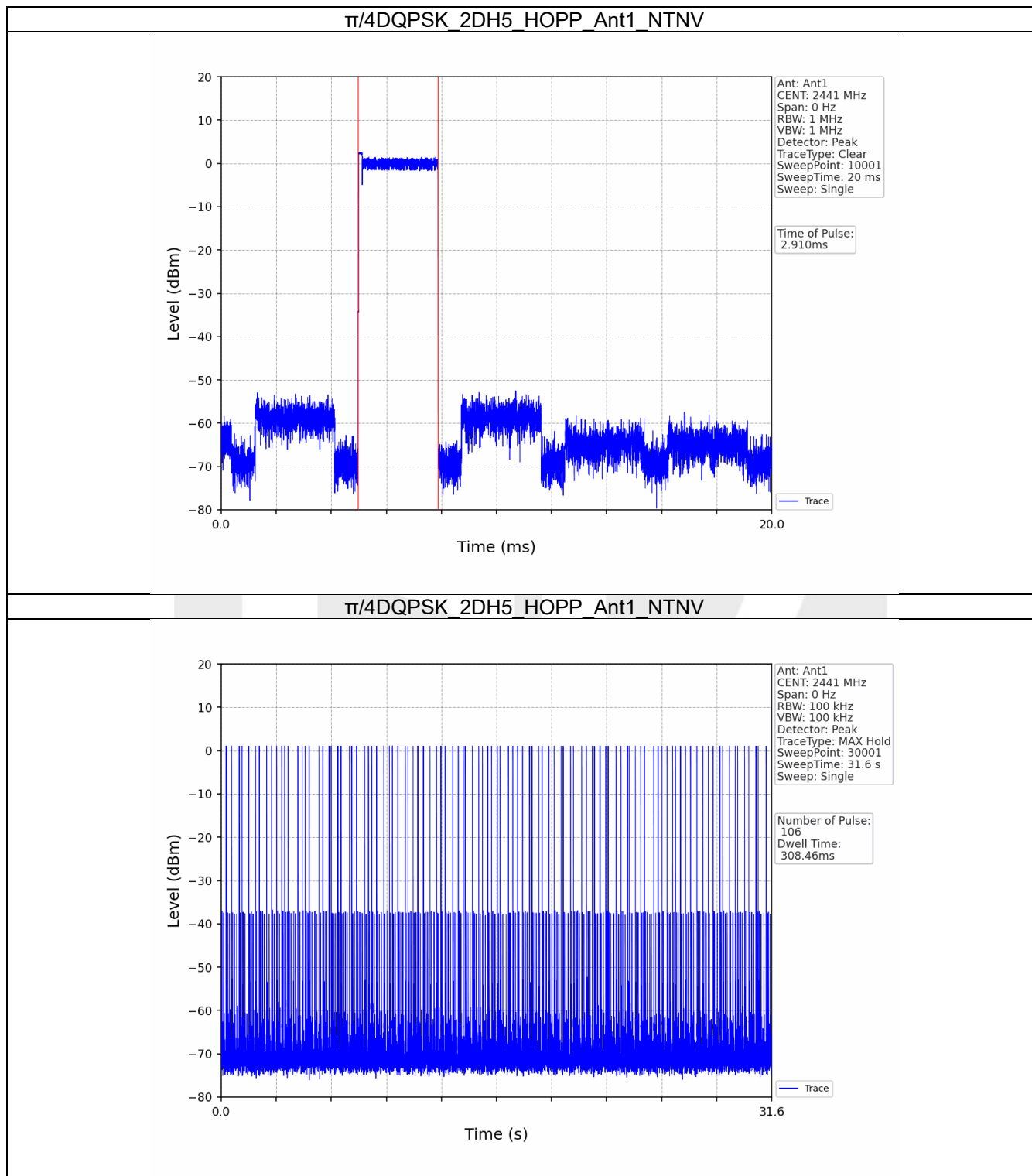


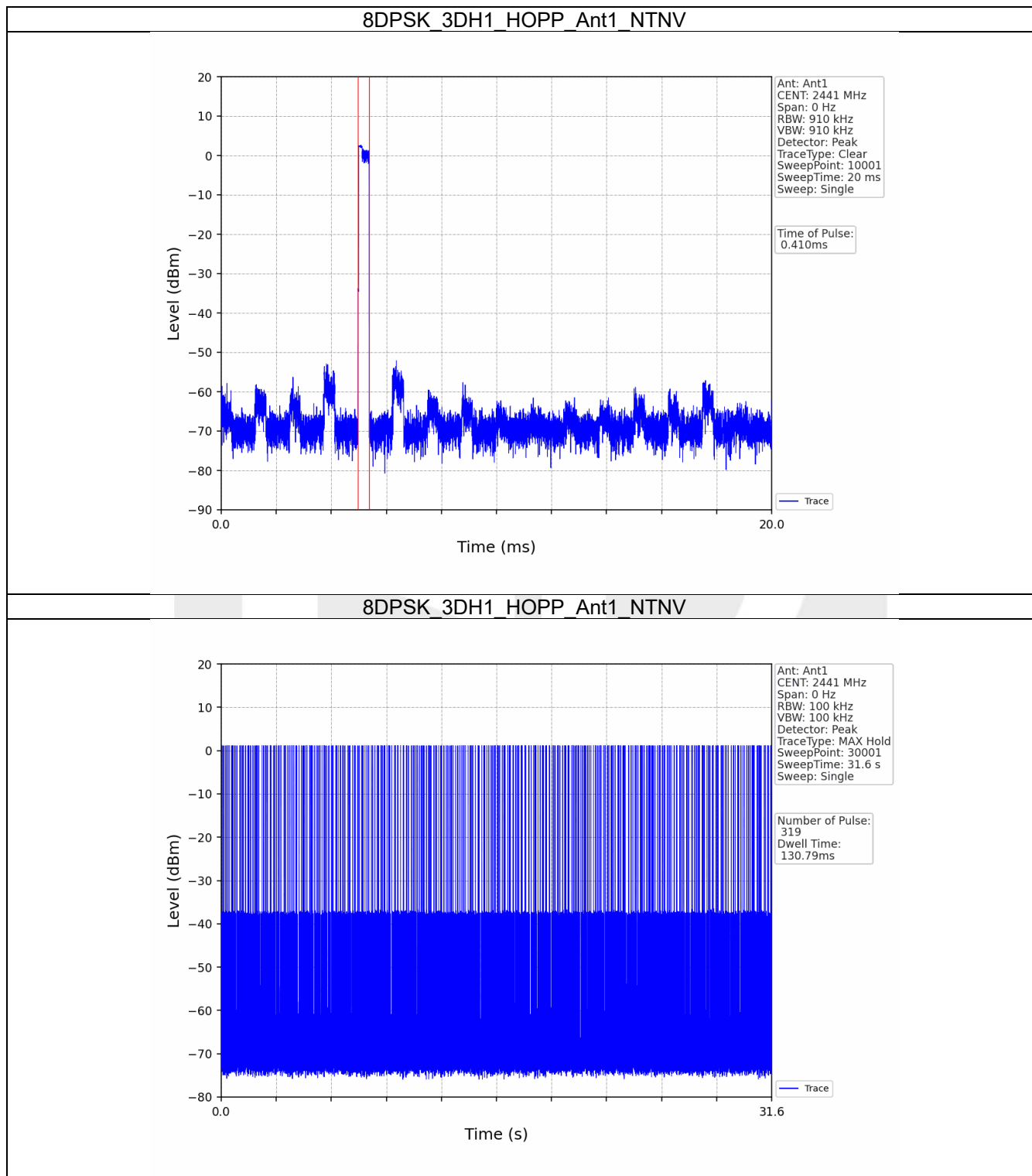


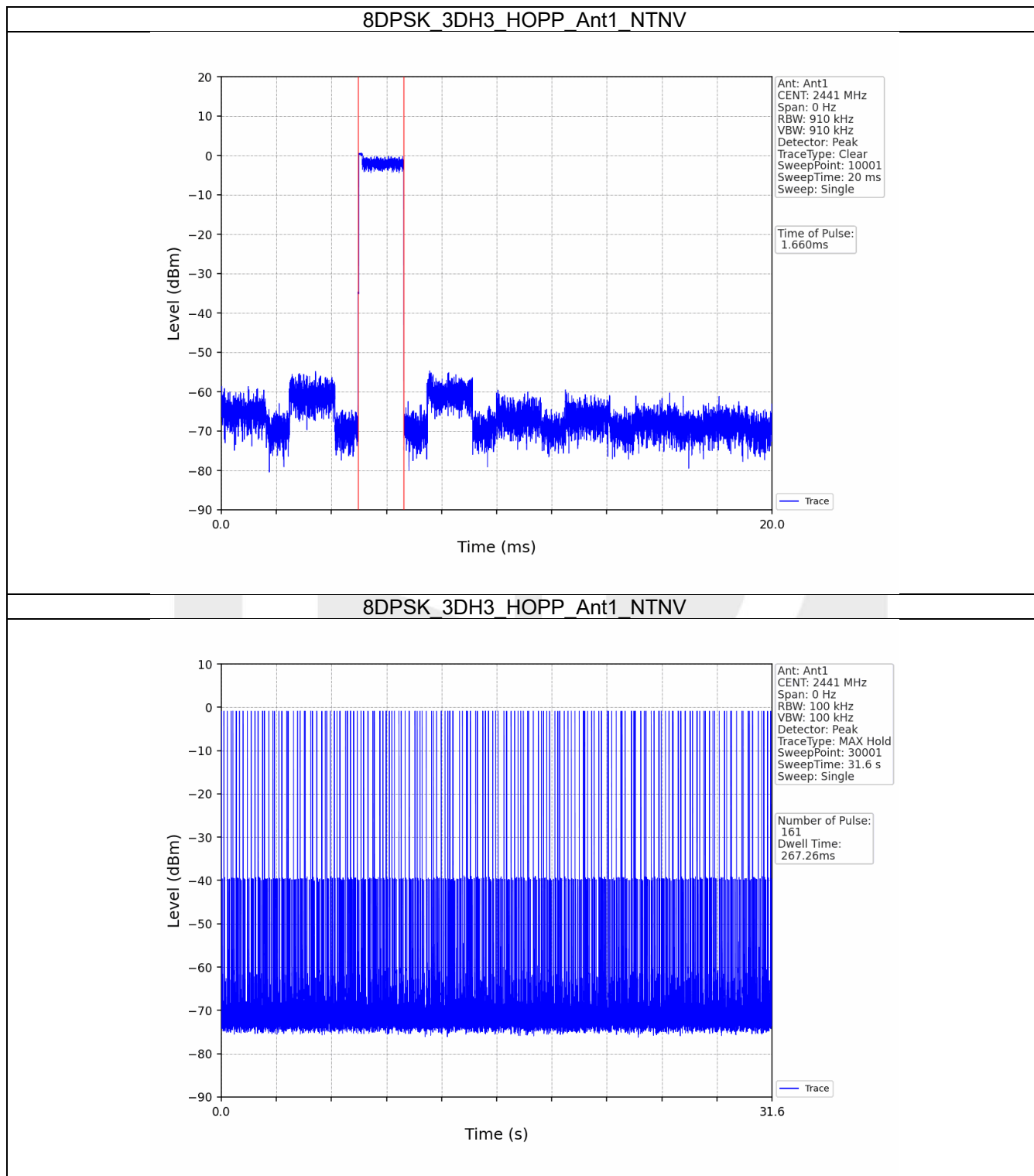


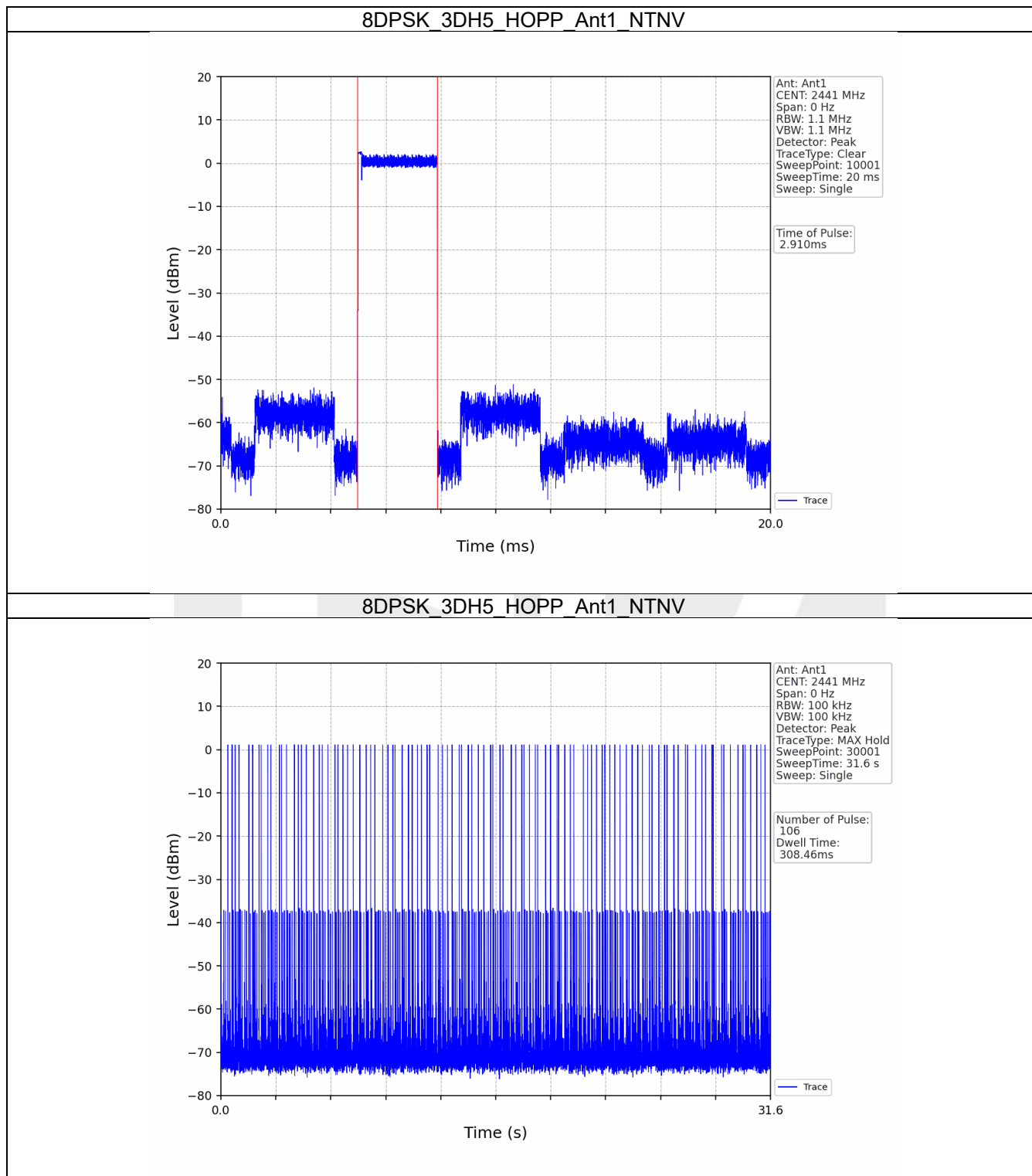












6. Unwanted Emissions In Non-restricted Frequency Bands

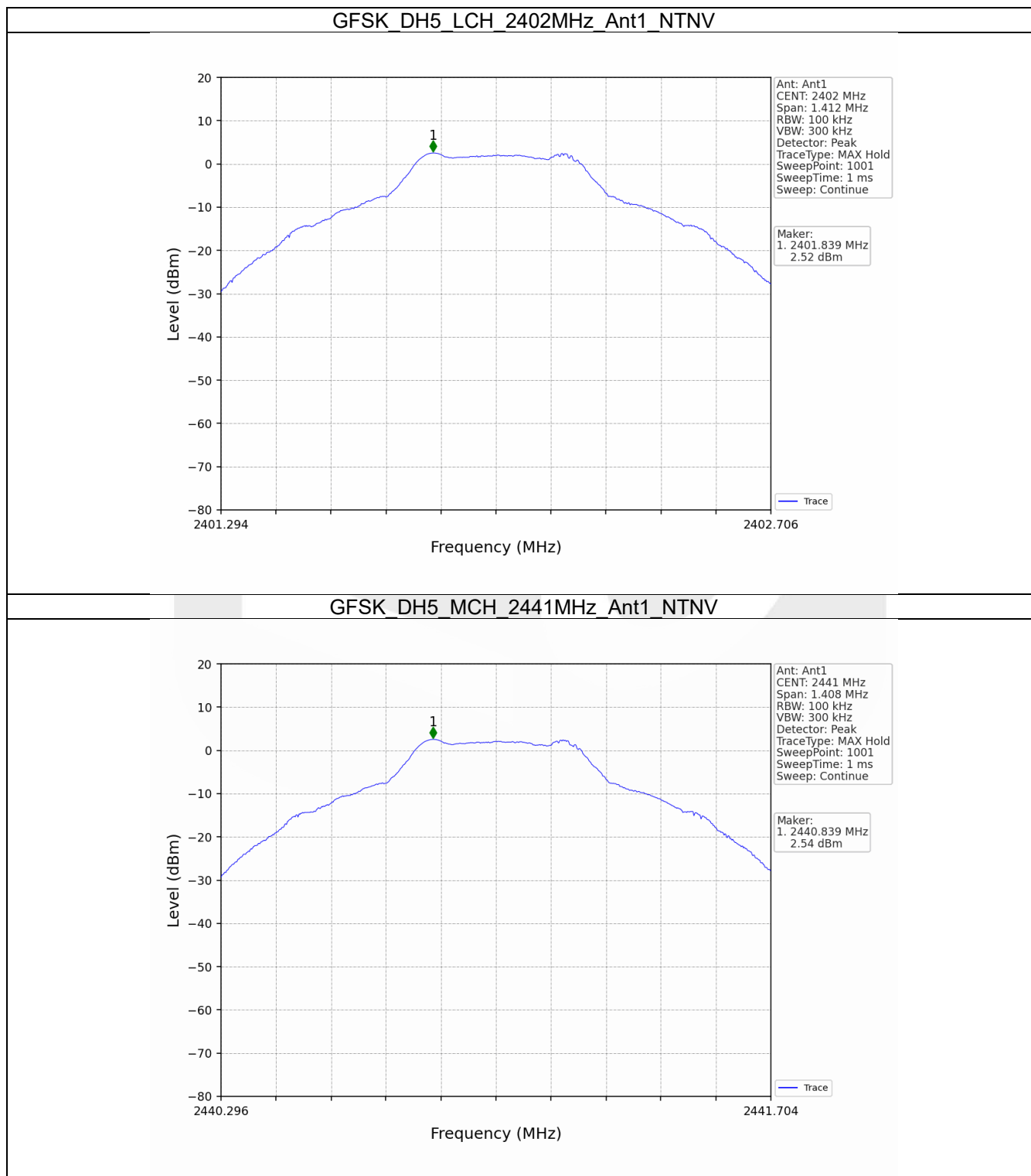
6.1 Ref

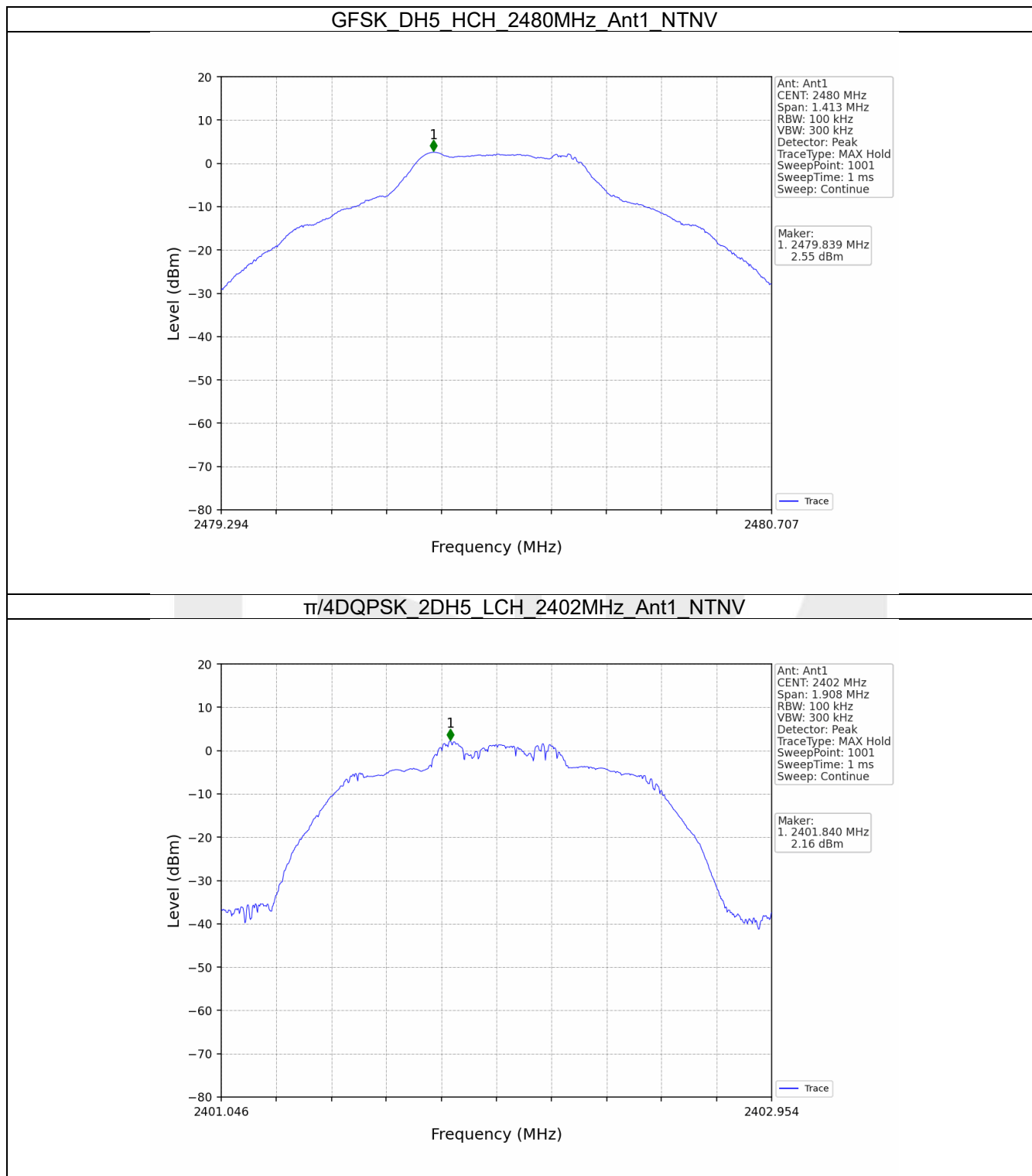
6.1.1 Test Result

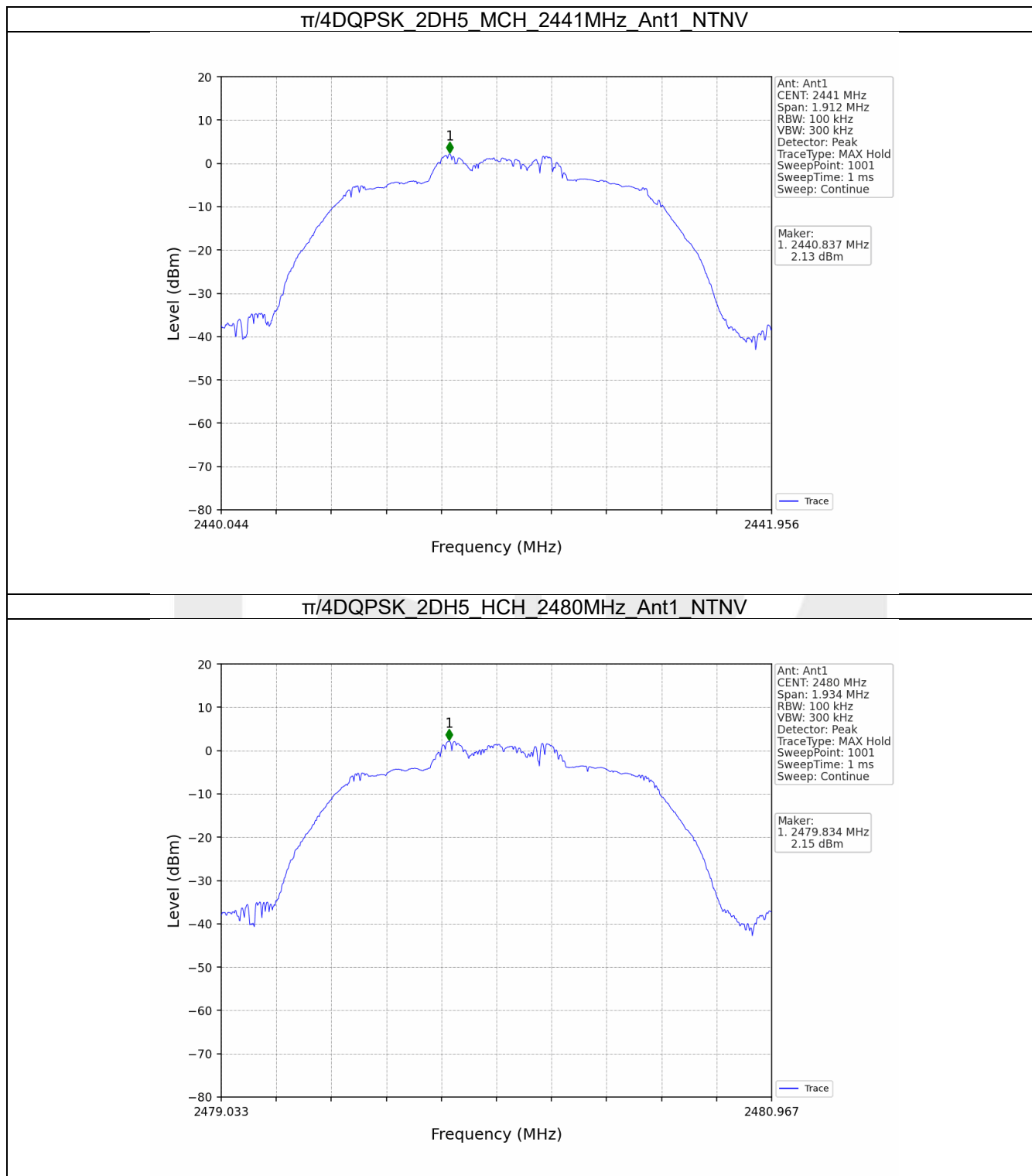
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	2.52
		2441	DH5	1	2.54
		2480	DH5	1	2.55
$\pi/4$ DQPSK	SISO	2402	2DH5	1	2.16
		2441	2DH5	1	2.13
		2480	2DH5	1	2.15
8DPSK	SISO	2402	3DH5	1	2.30
		2441	3DH5	1	2.32
		2480	3DH5	1	2.36

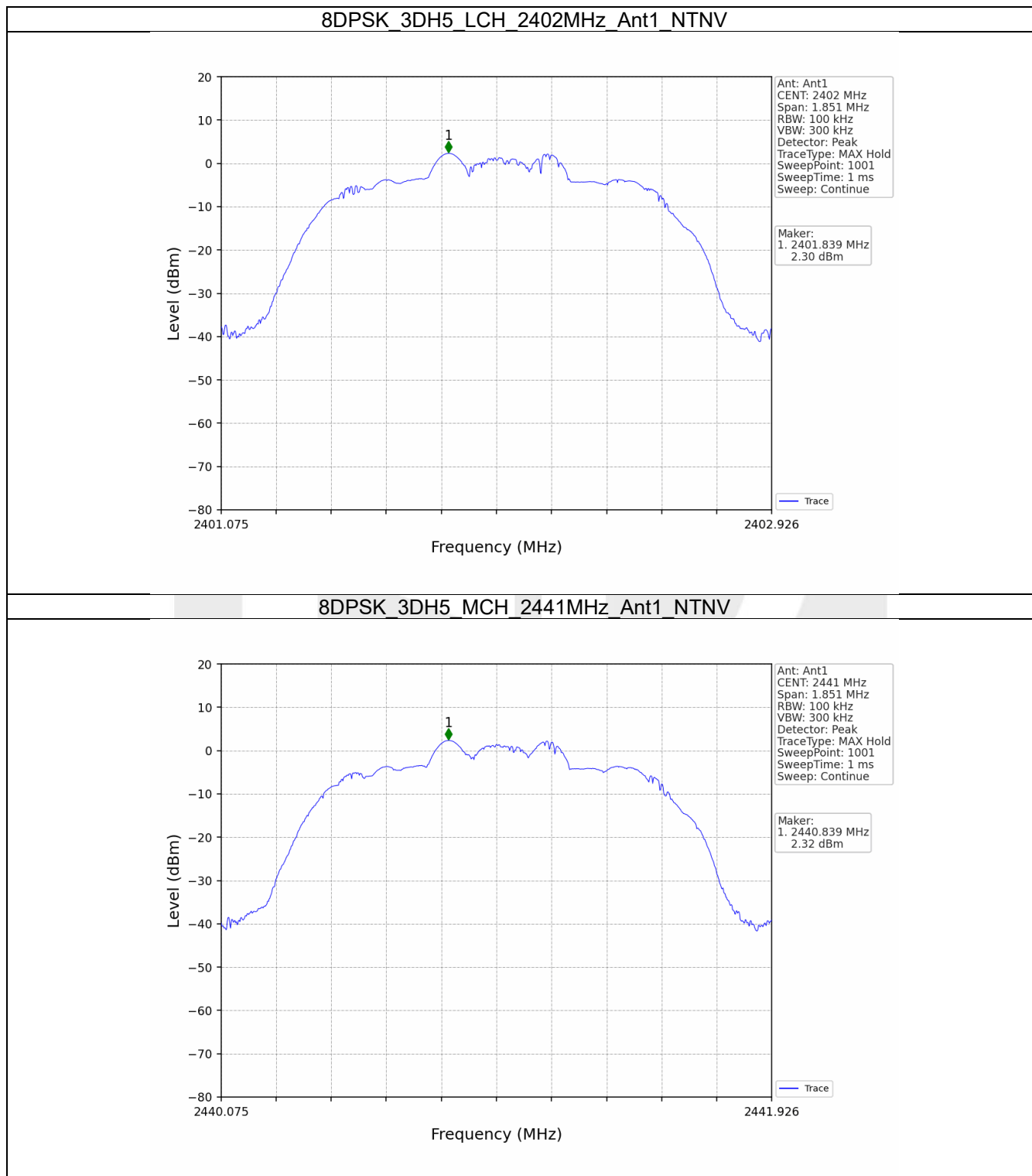
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

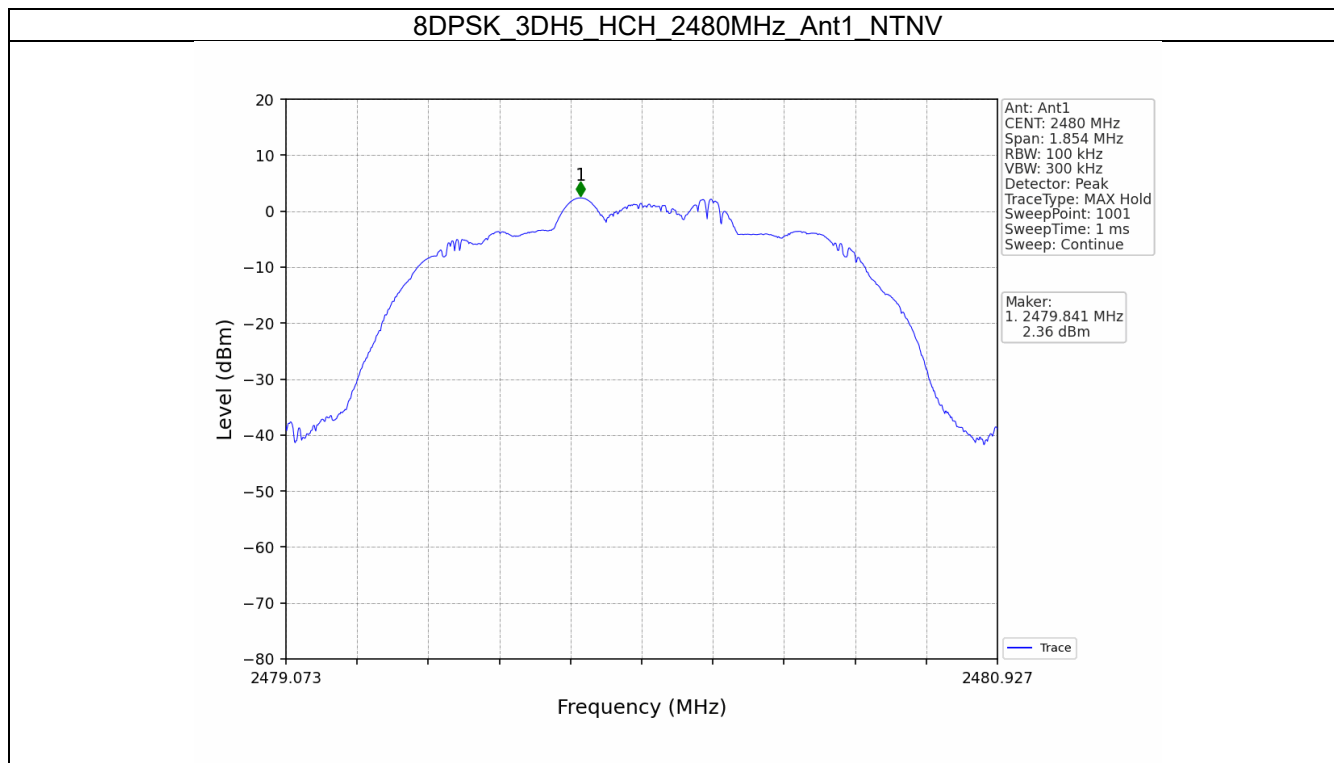
6.1.2 Test Graph











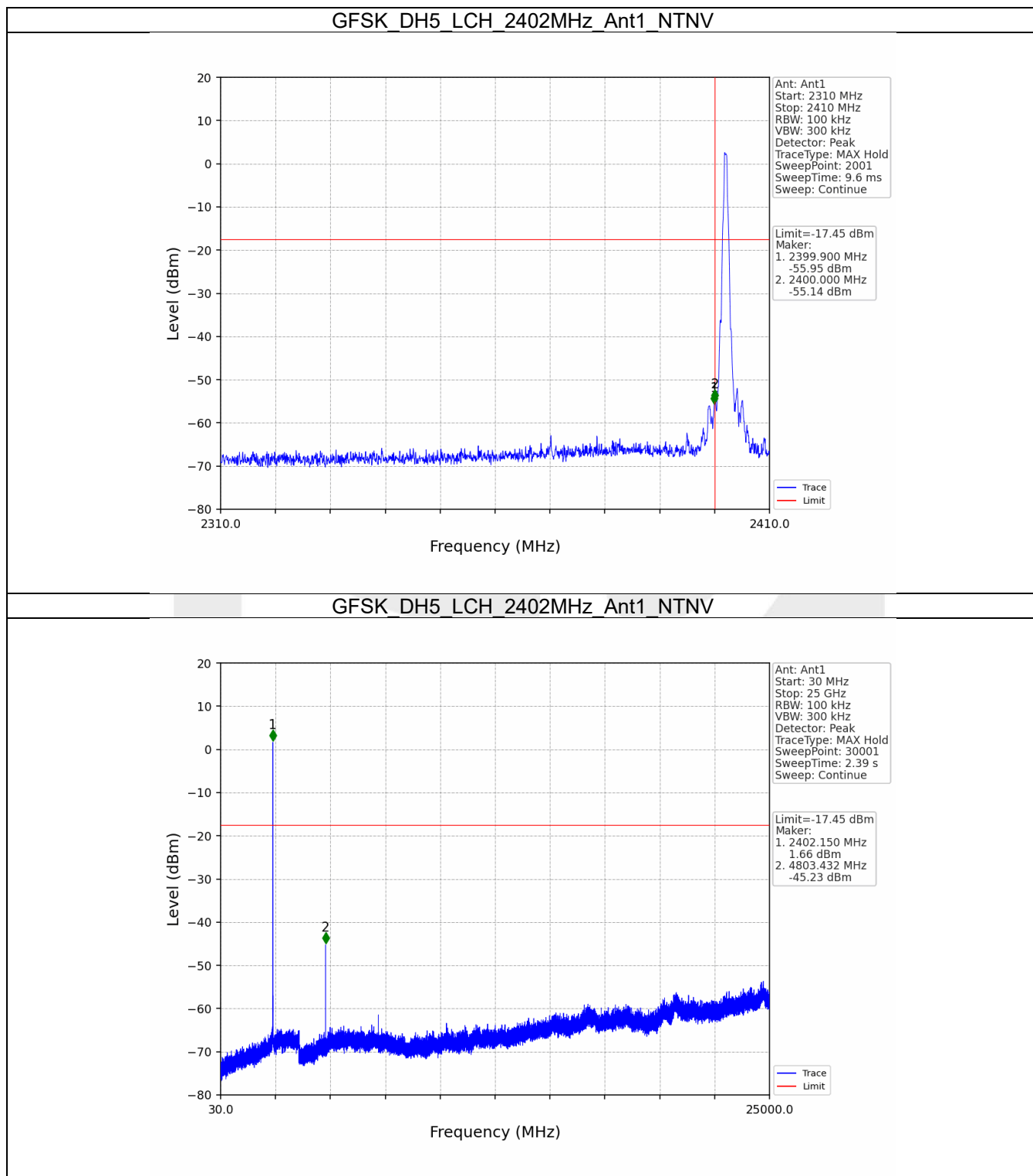
6.2 CSE

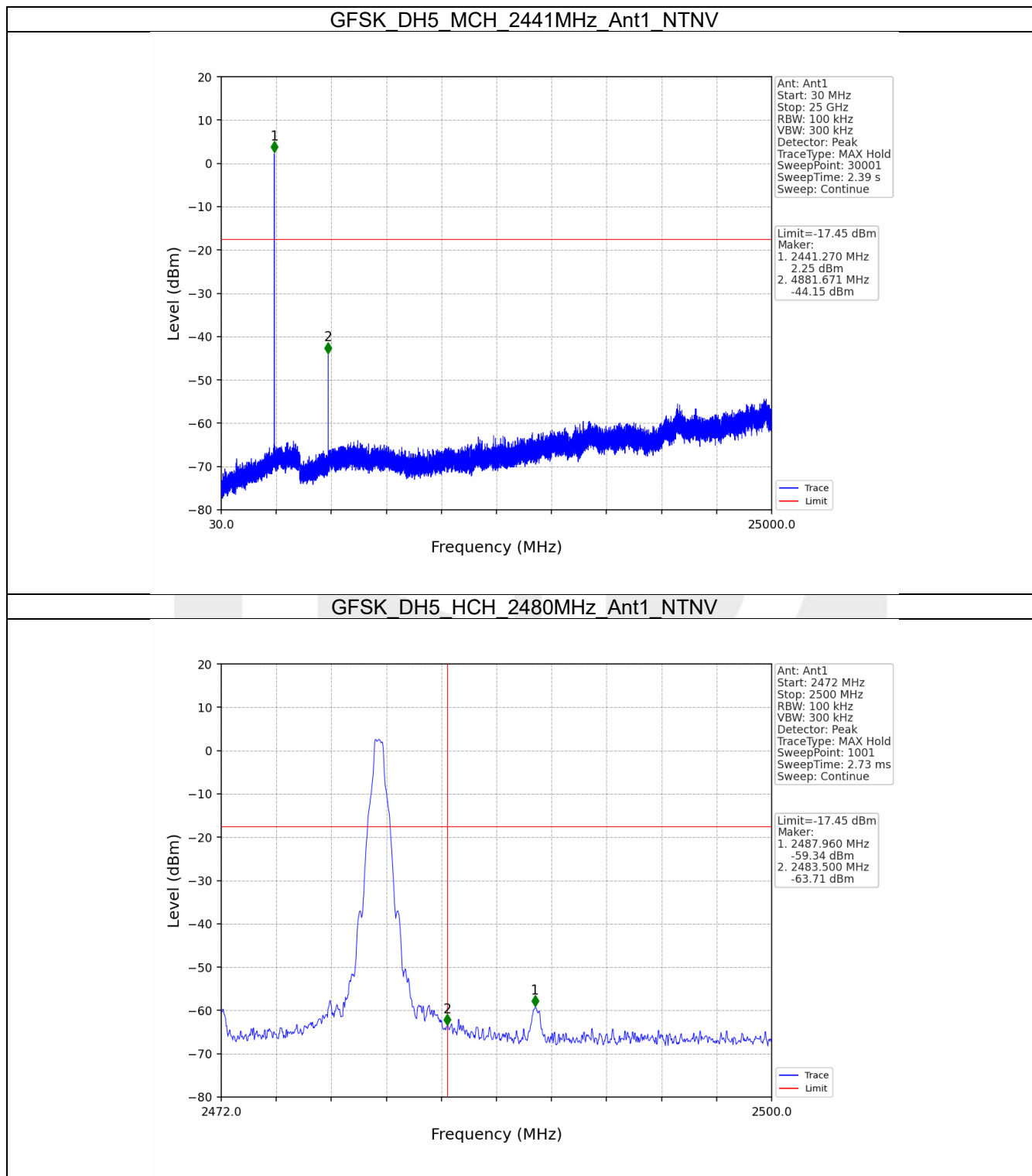
6.2.1 Test Result

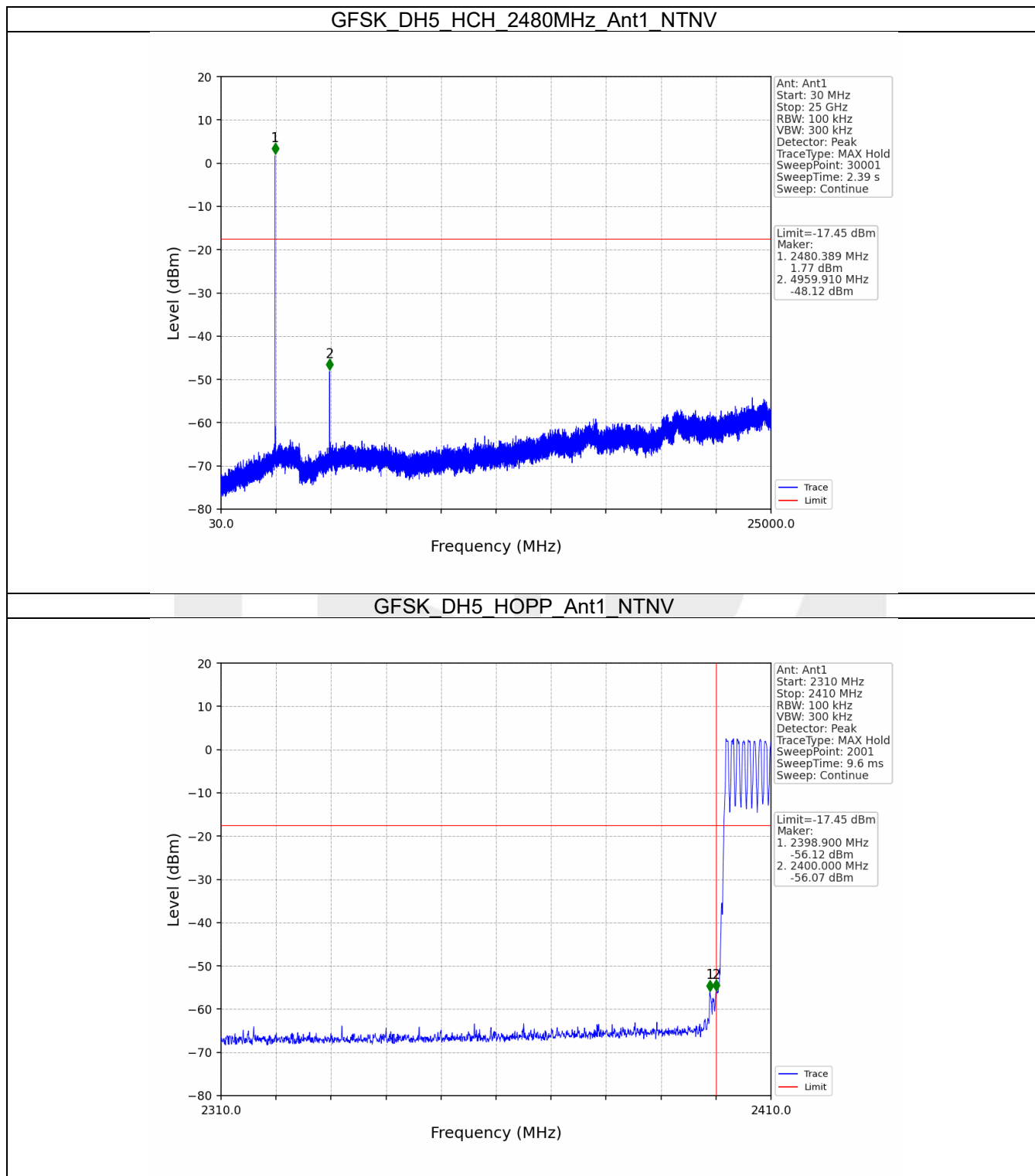
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.55	-17.45	Pass
		2441	DH5	1	2.55	-17.45	Pass
		2480	DH5	1	2.55	-17.45	Pass
		HOPP	DH5	1	2.55	-17.45	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	2.16	-17.84	Pass
		2441	2DH5	1	2.16	-17.84	Pass
		2480	2DH5	1	2.16	-17.84	Pass
		HOPP	2DH5	1	2.16	-17.84	Pass
8DPSK	SISO	2402	3DH5	1	2.36	-17.64	Pass
		2441	3DH5	1	2.36	-17.64	Pass
		2480	3DH5	1	2.36	-17.64	Pass
		HOPP	3DH5	1	2.36	-17.64	Pass

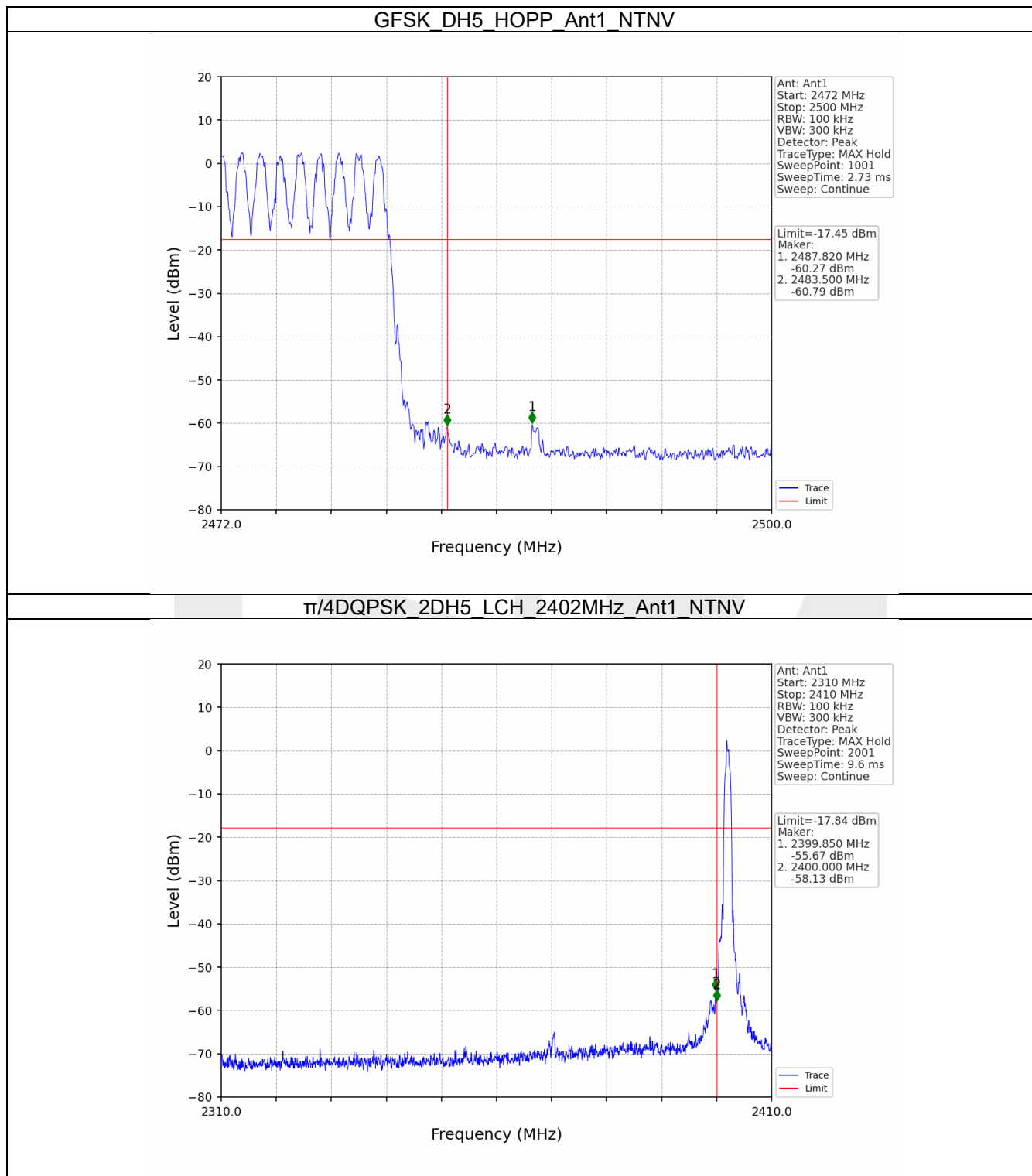
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

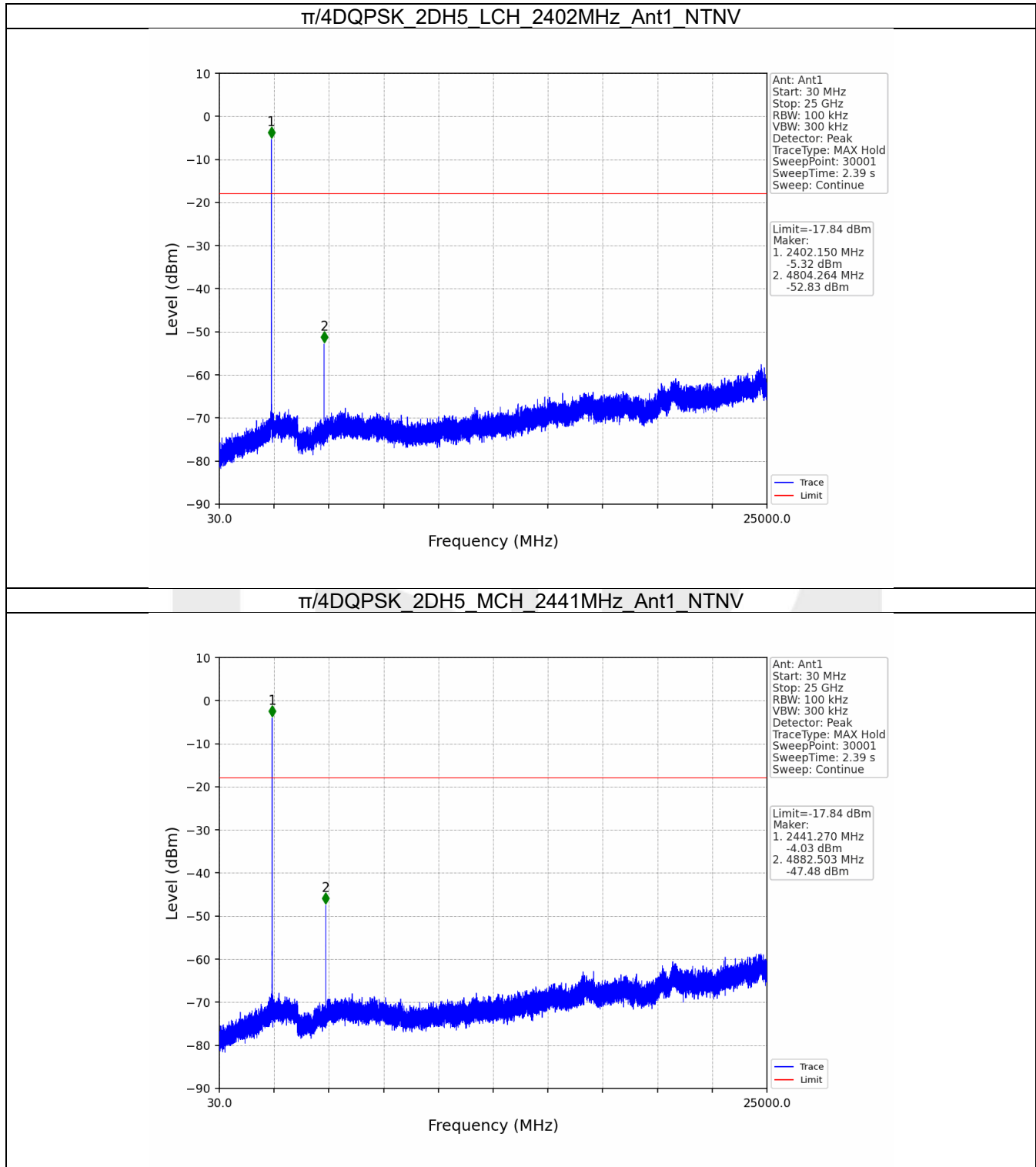
6.2.2 Test Graph

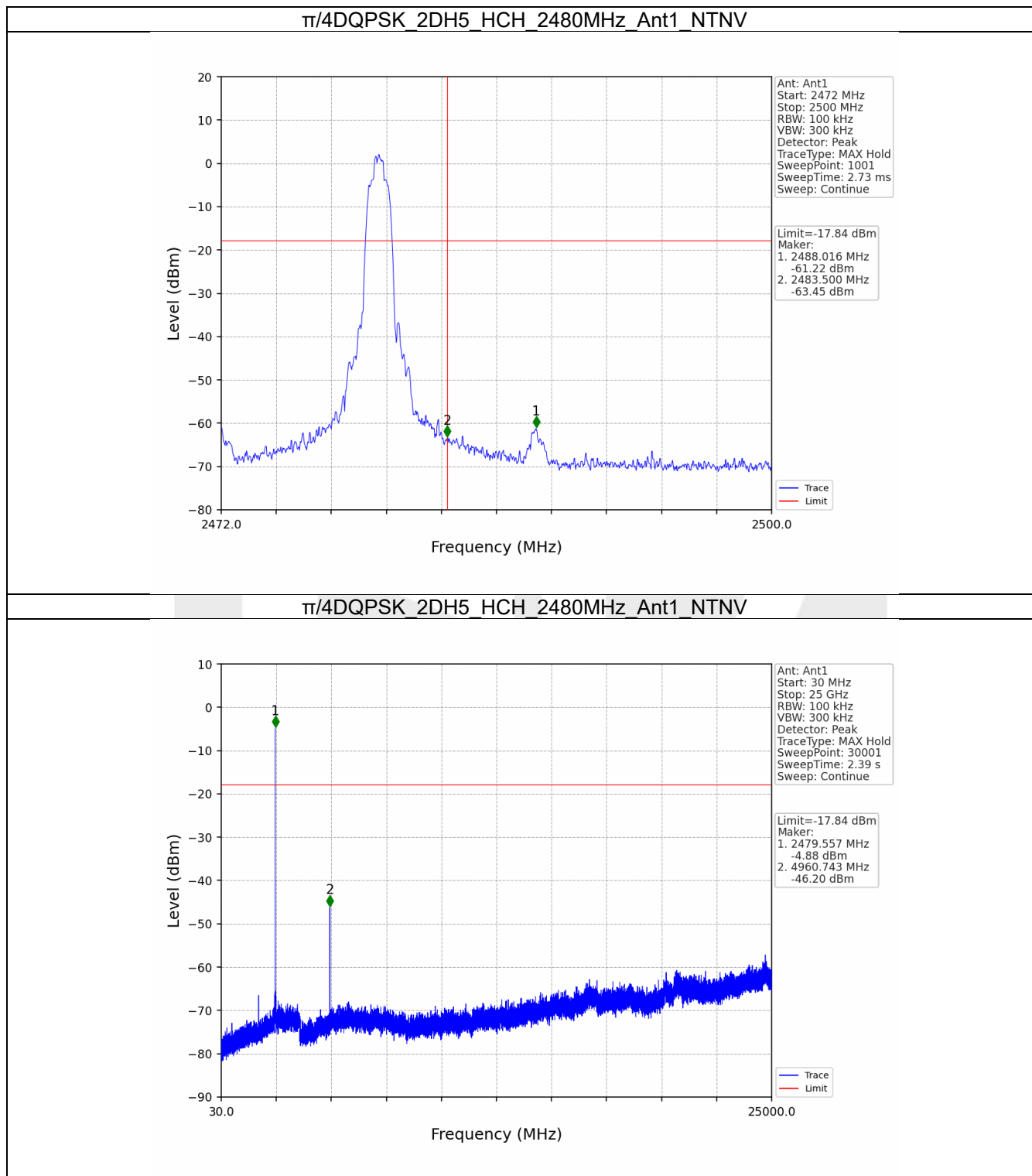


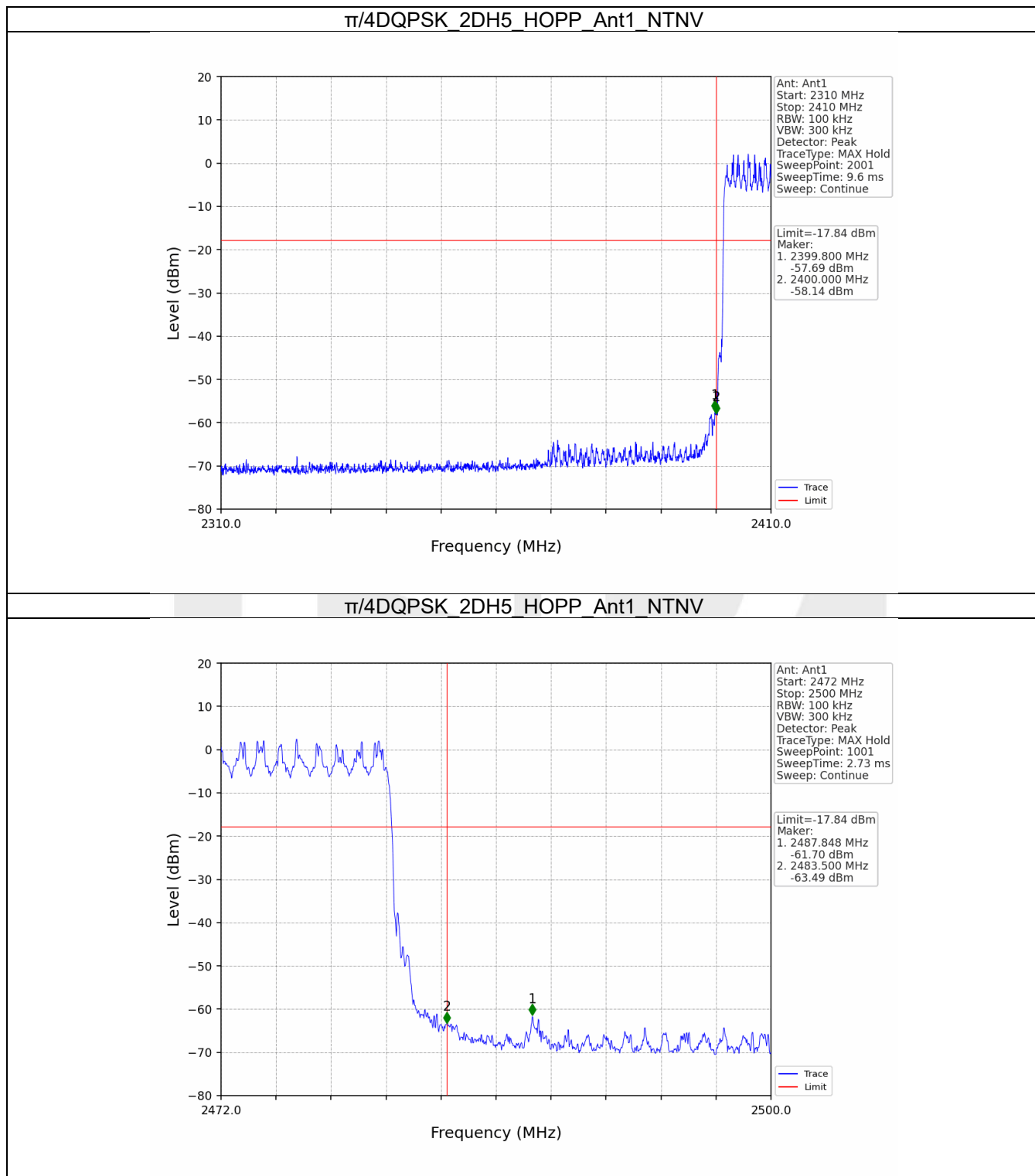


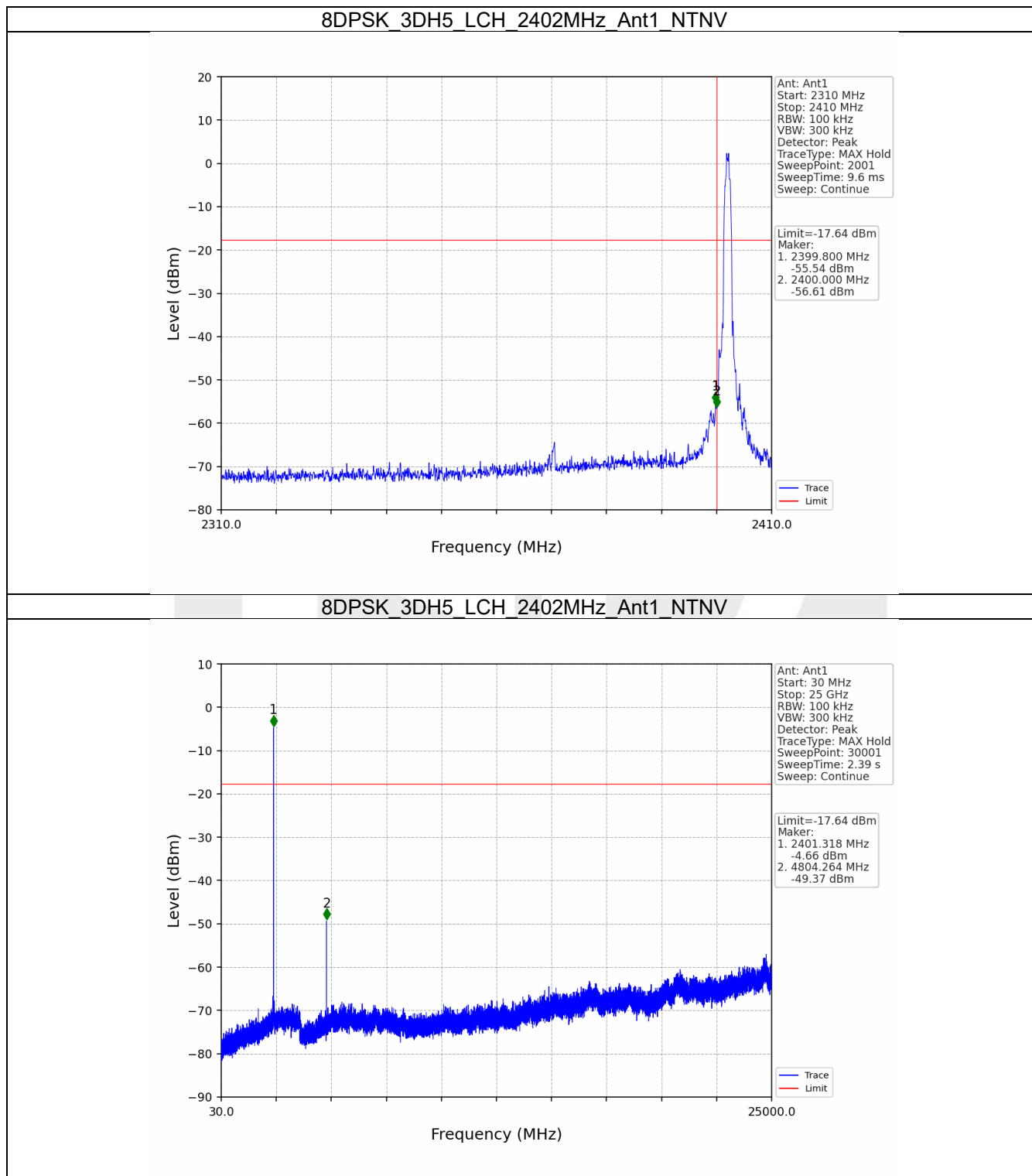


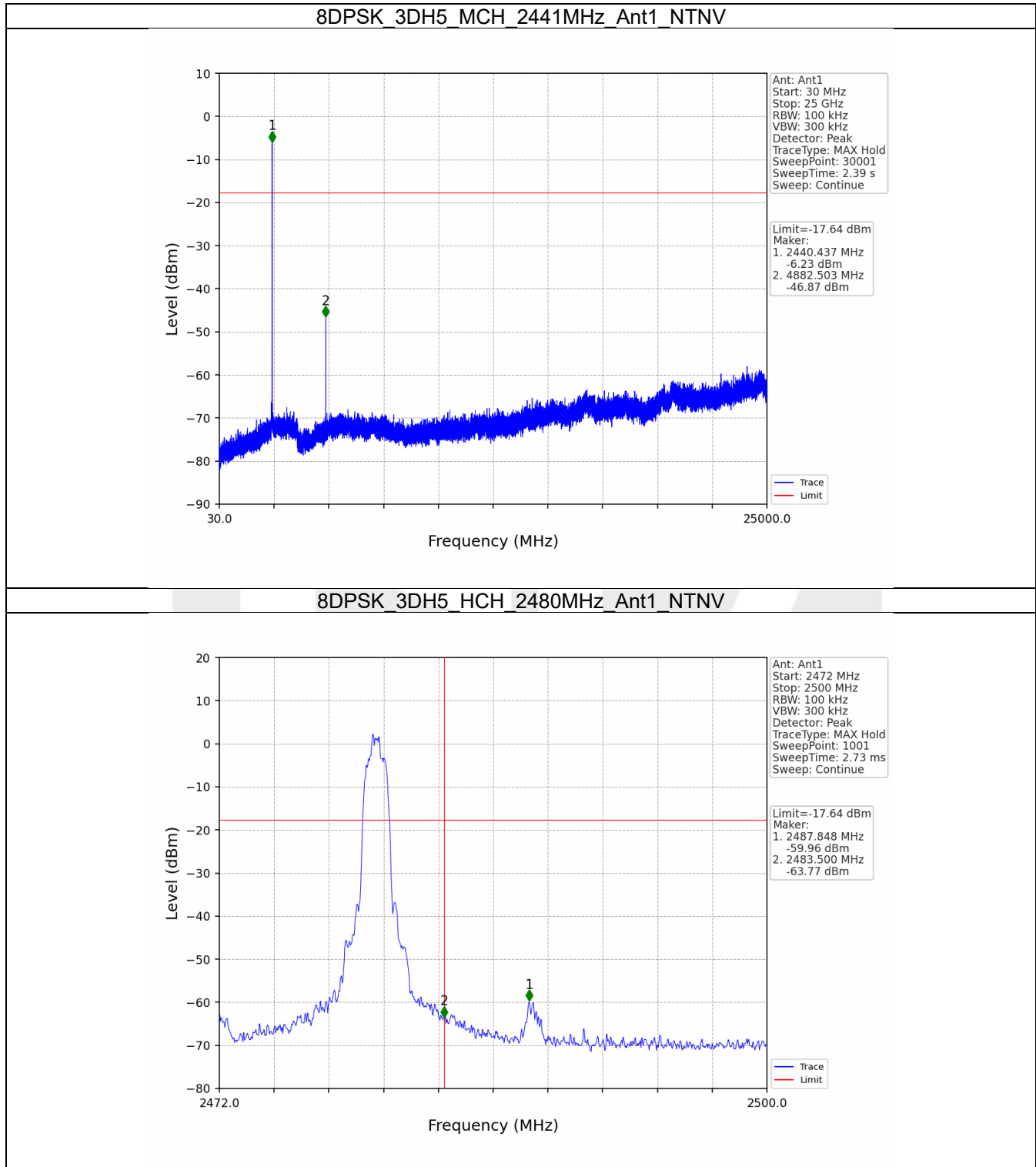


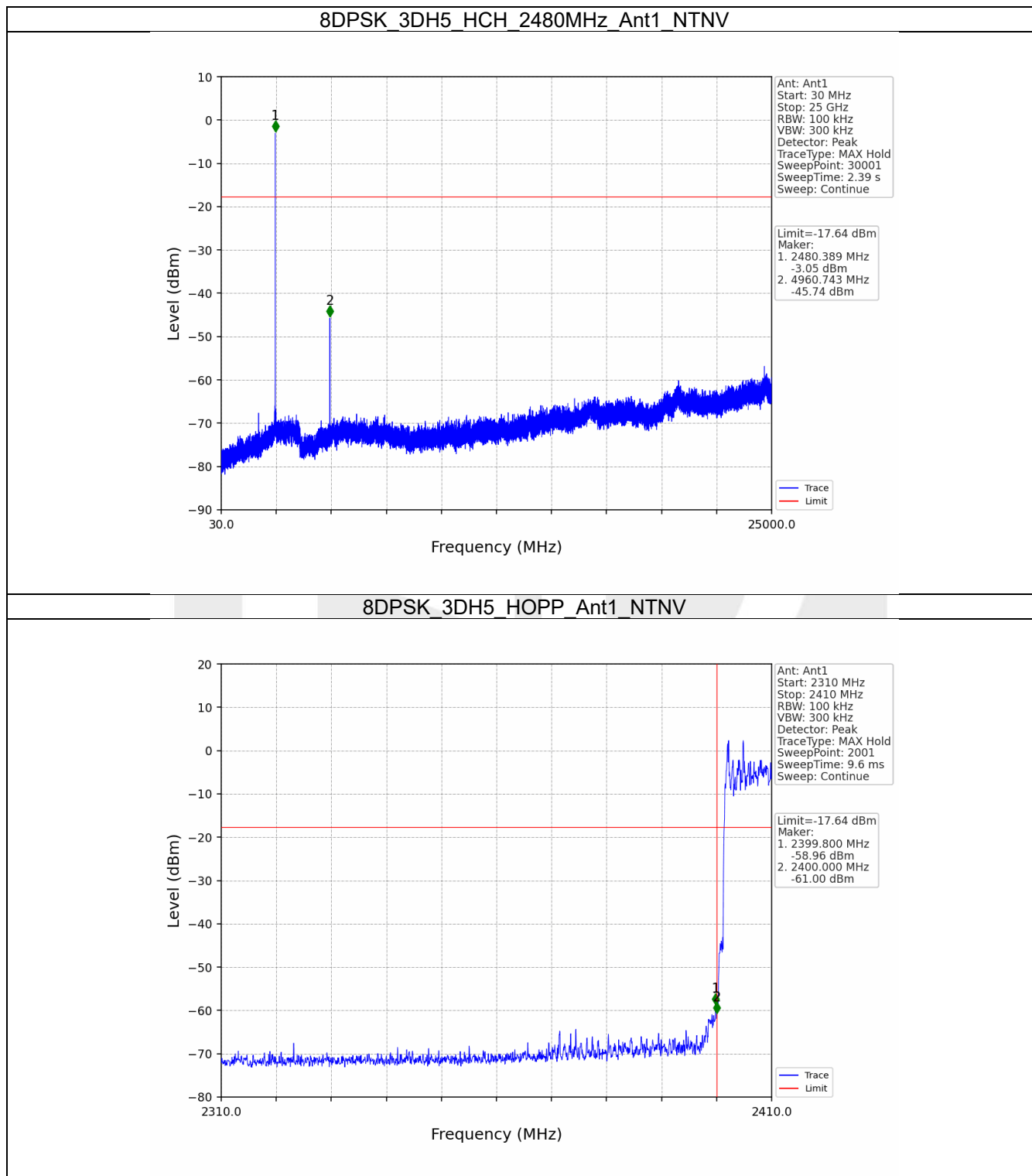


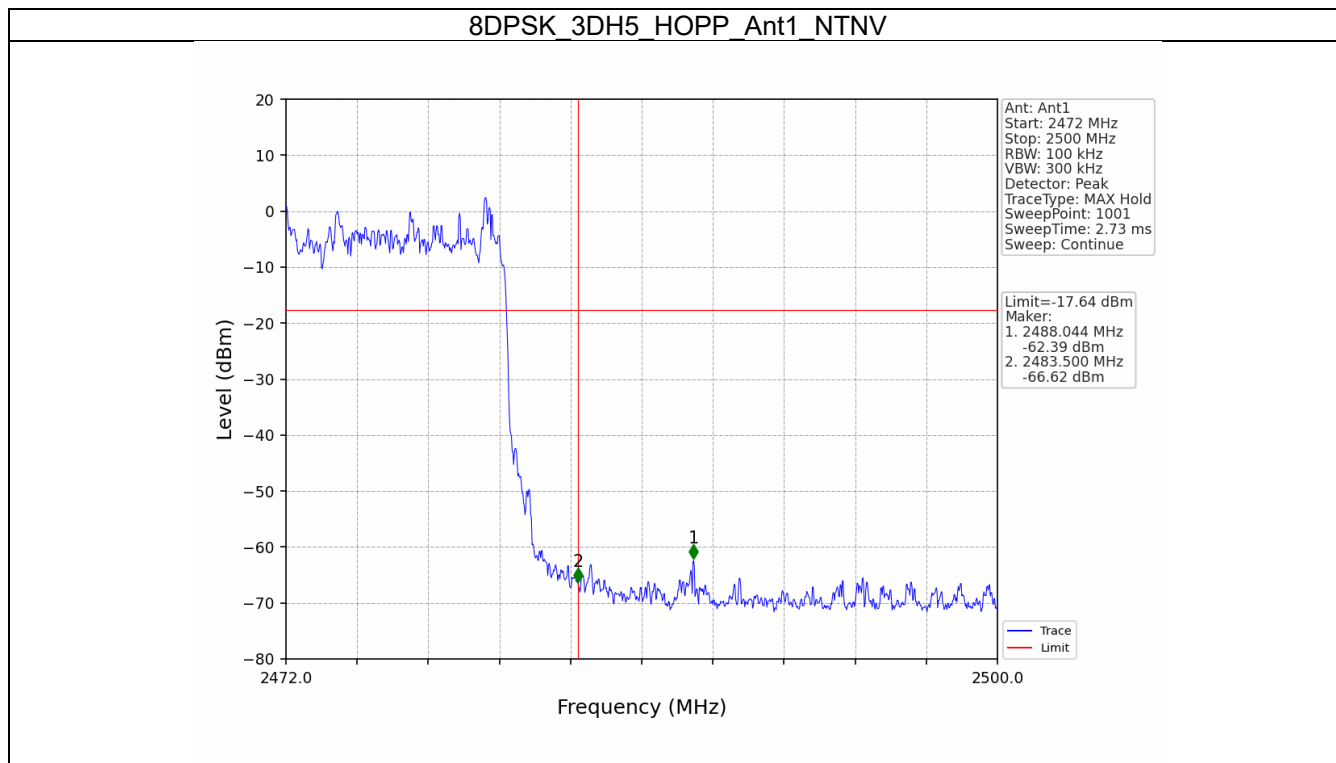












----- End of Report -----