

ANNEX D TEST DATA

For

Project No.:	8228EU011604W
Client:	Shenzhen Moli Technology Co., LTD
Product Description:	Wireless Headphones
Model No.:	K3 Pro
FCC ID:	2BFYB-K3
Technology:	Bluetooth BDR&EDR
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-06-05

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

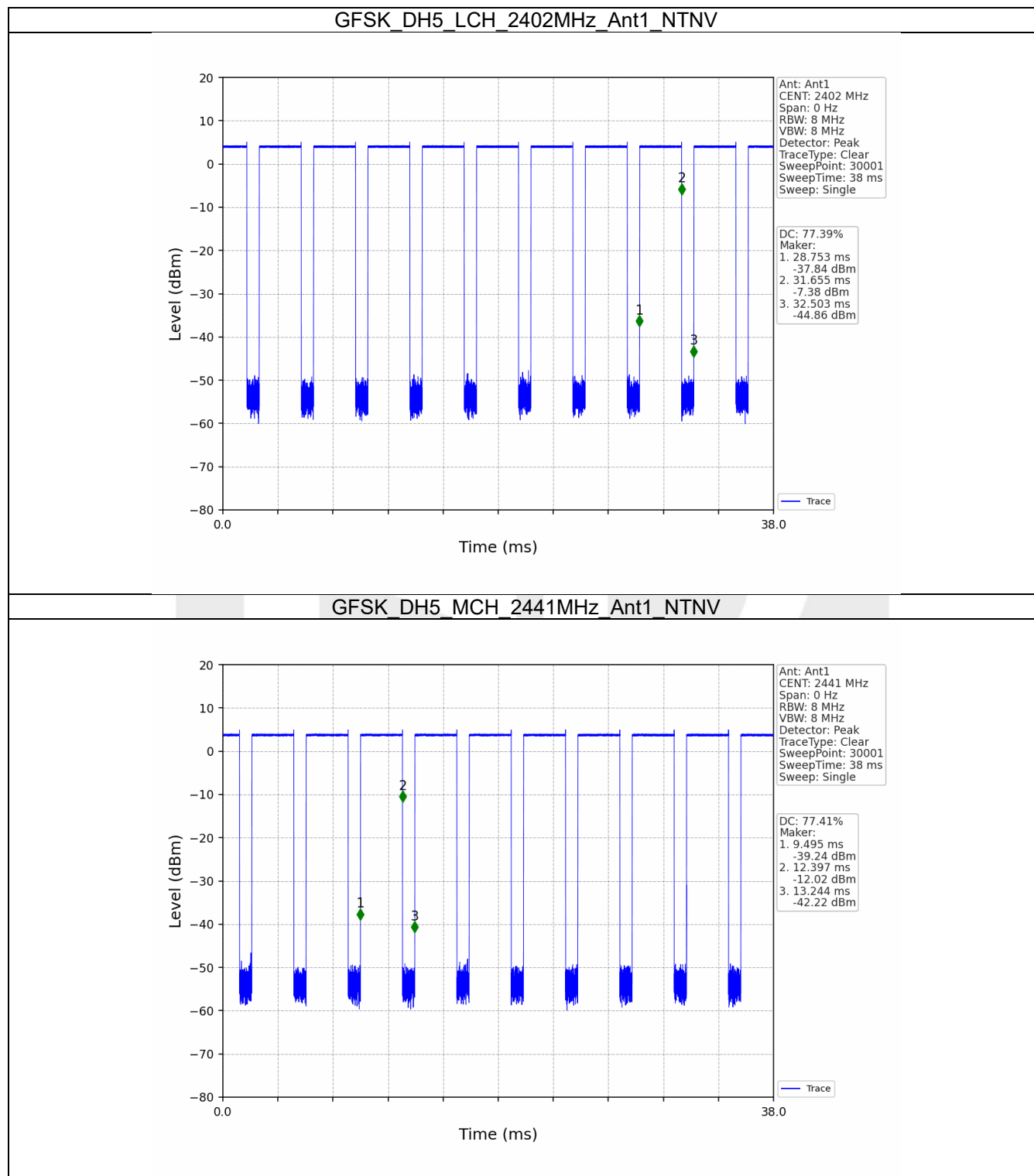
1. Duty Cycle

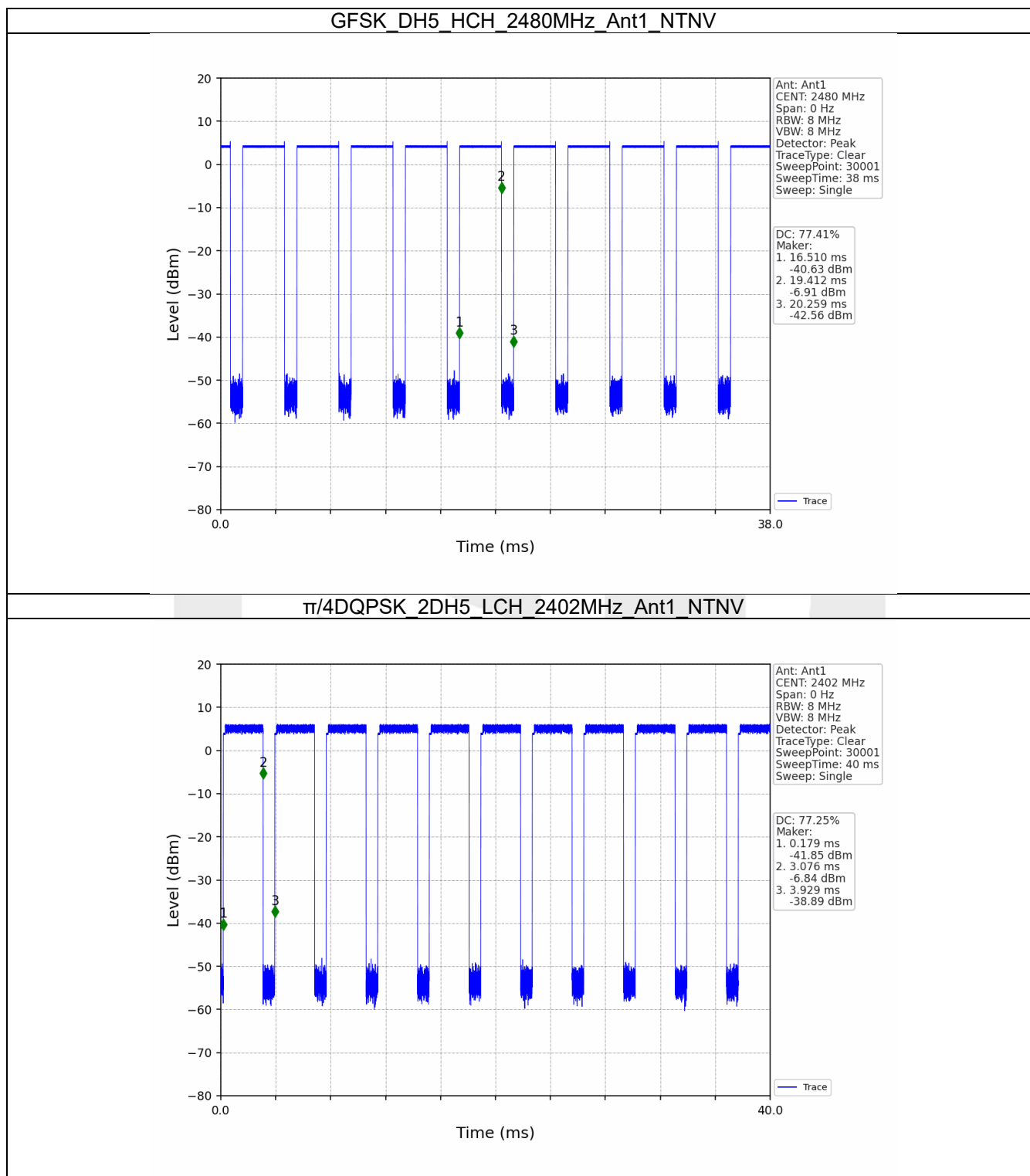
1.1 Ant1

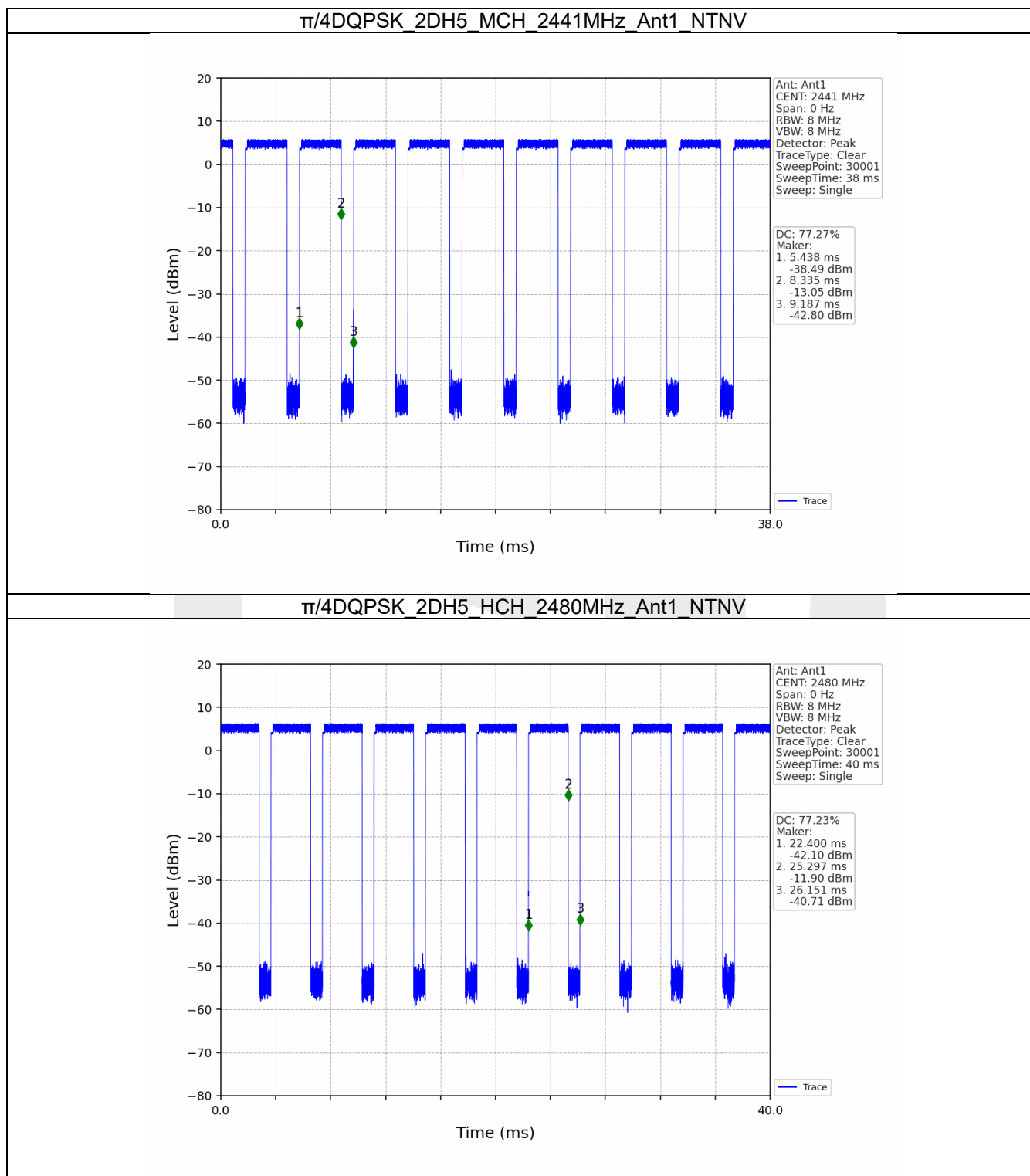
1.1.1 Test Result

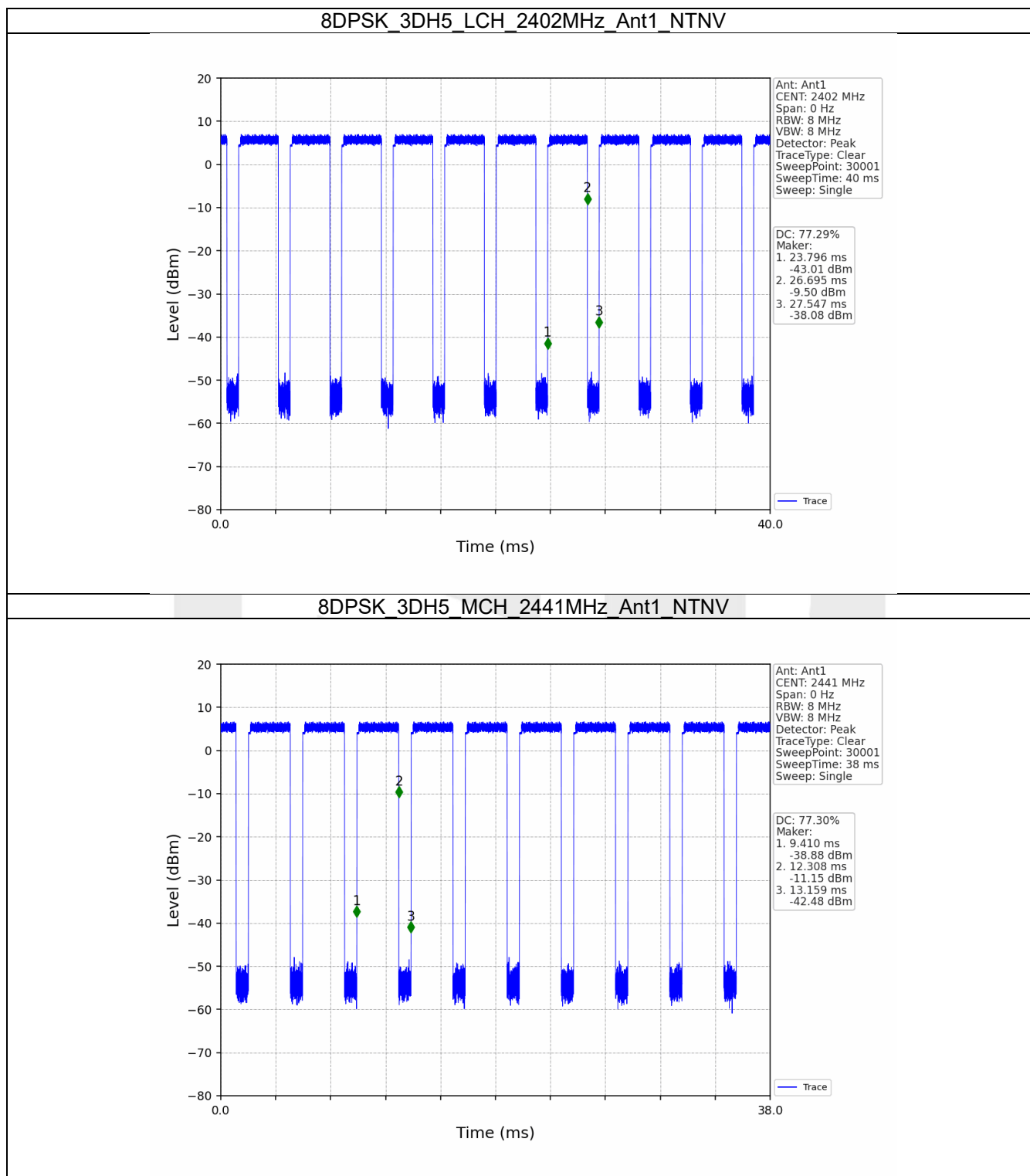
Ant1								
Mode	Tx Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.902	3.750	77.39	1.11	0.03
		2441	DH5	2.902	3.749	77.41	1.11	0.03
		2480	DH5	2.902	3.749	77.41	1.11	0.04
$\pi/4$ DQPSK	SISO	2402	2DH5	2.897	3.750	77.25	1.12	0.06
		2441	2DH5	2.897	3.749	77.27	1.12	0.01
		2480	2DH5	2.897	3.751	77.23	1.12	0.04
8DPSK	SISO	2402	3DH5	2.899	3.751	77.29	1.12	0.04
		2441	3DH5	2.898	3.749	77.30	1.12	0.03
		2480	3DH5	2.898	3.749	77.30	1.12	0.07

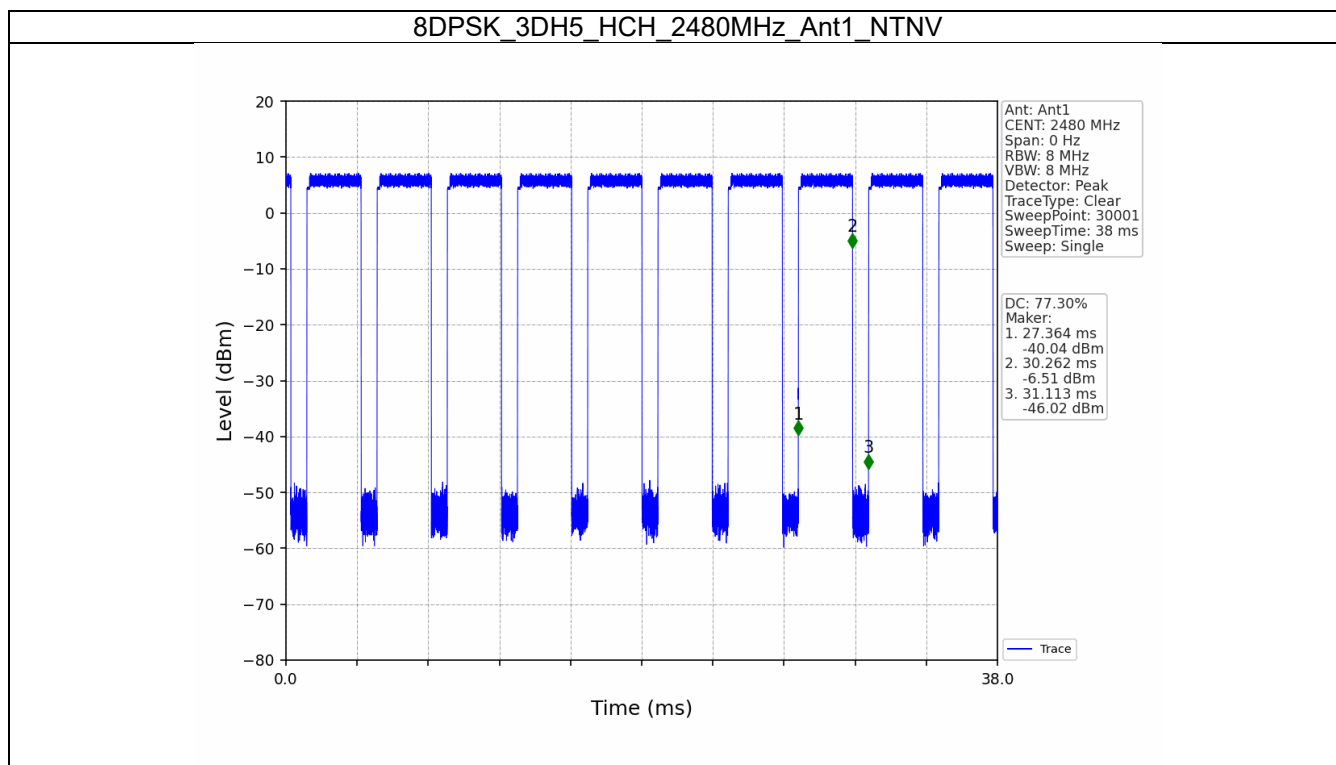
1.1.2 Test Graph











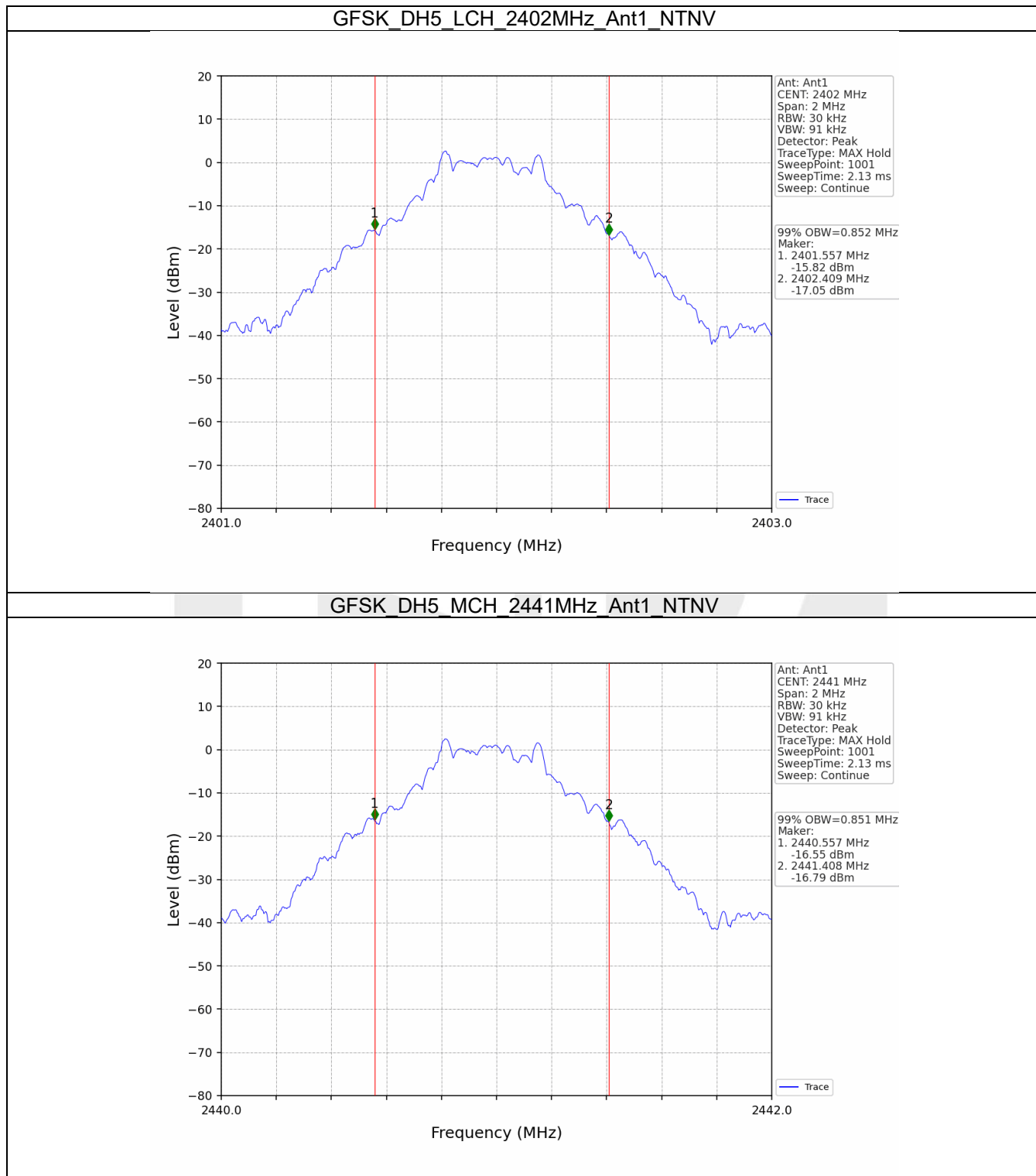
2. Bandwidth

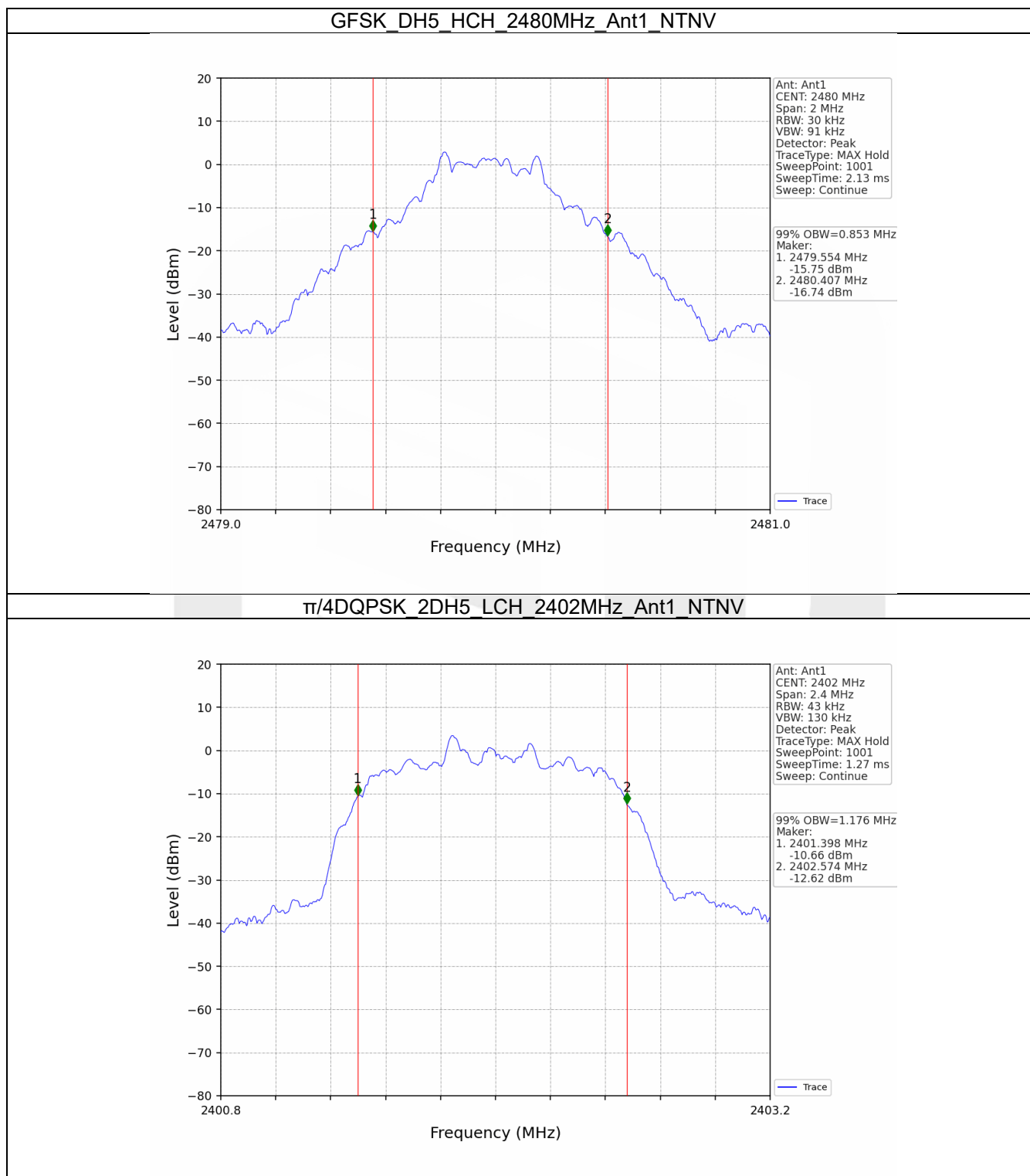
2.1 OBW

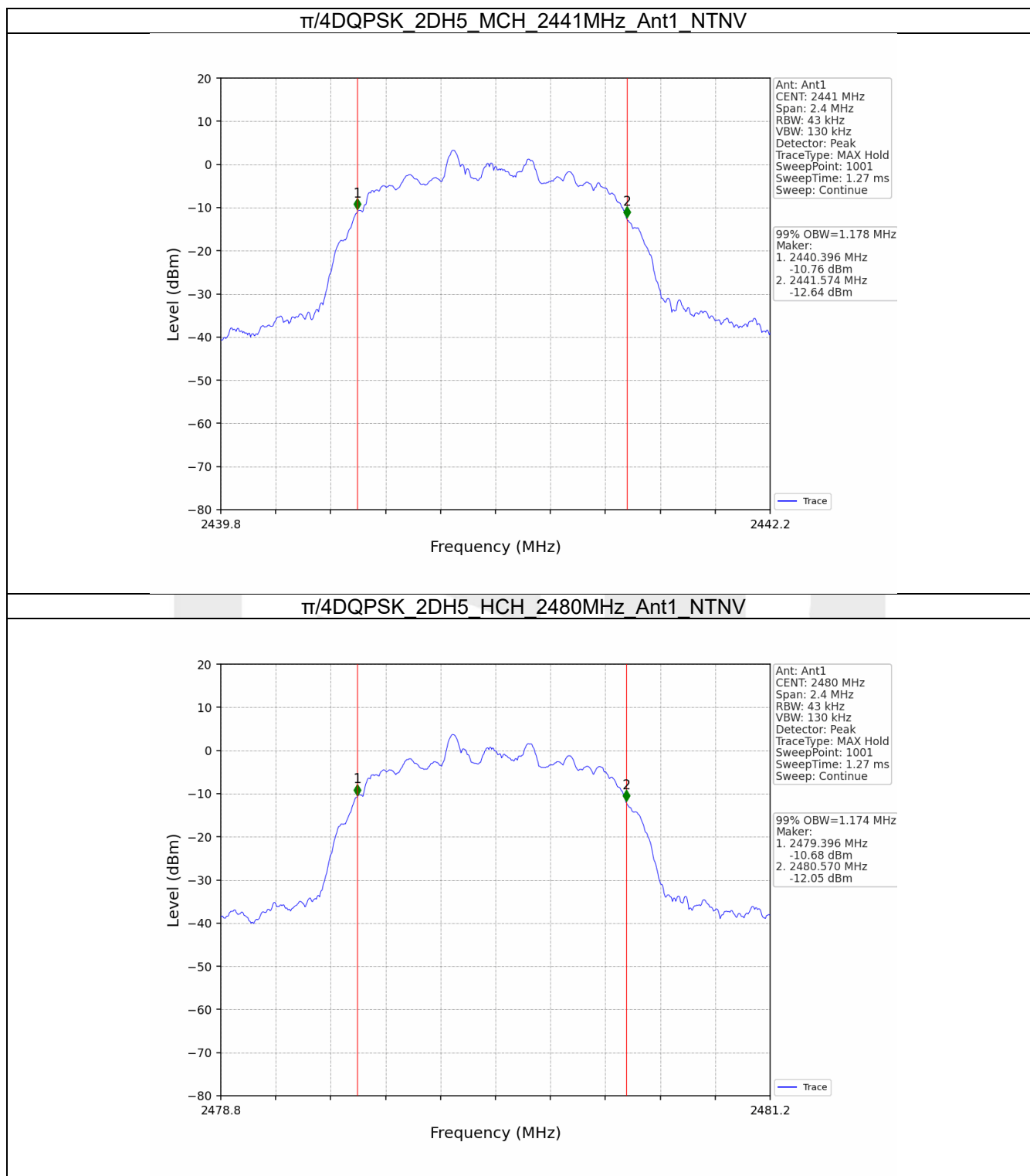
2.1.1 Test Result

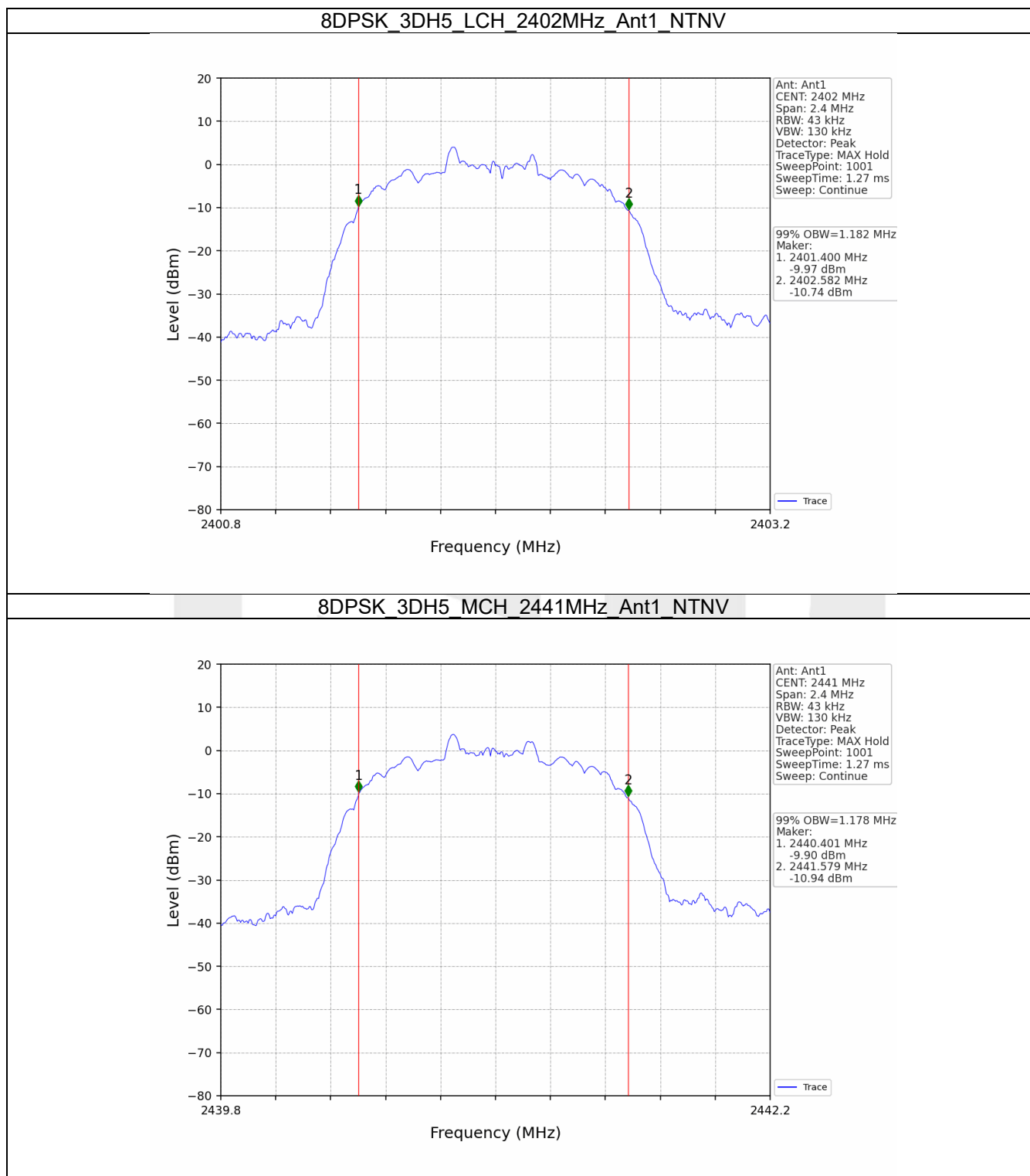
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.852	/	Pass
		2441	DH5	1	0.851	/	Pass
		2480	DH5	1	0.853	/	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.176	/	Pass
		2441	2DH5	1	1.178	/	Pass
		2480	2DH5	1	1.174	/	Pass
8DPSK	SISO	2402	3DH5	1	1.182	/	Pass
		2441	3DH5	1	1.178	/	Pass
		2480	3DH5	1	1.176	/	Pass

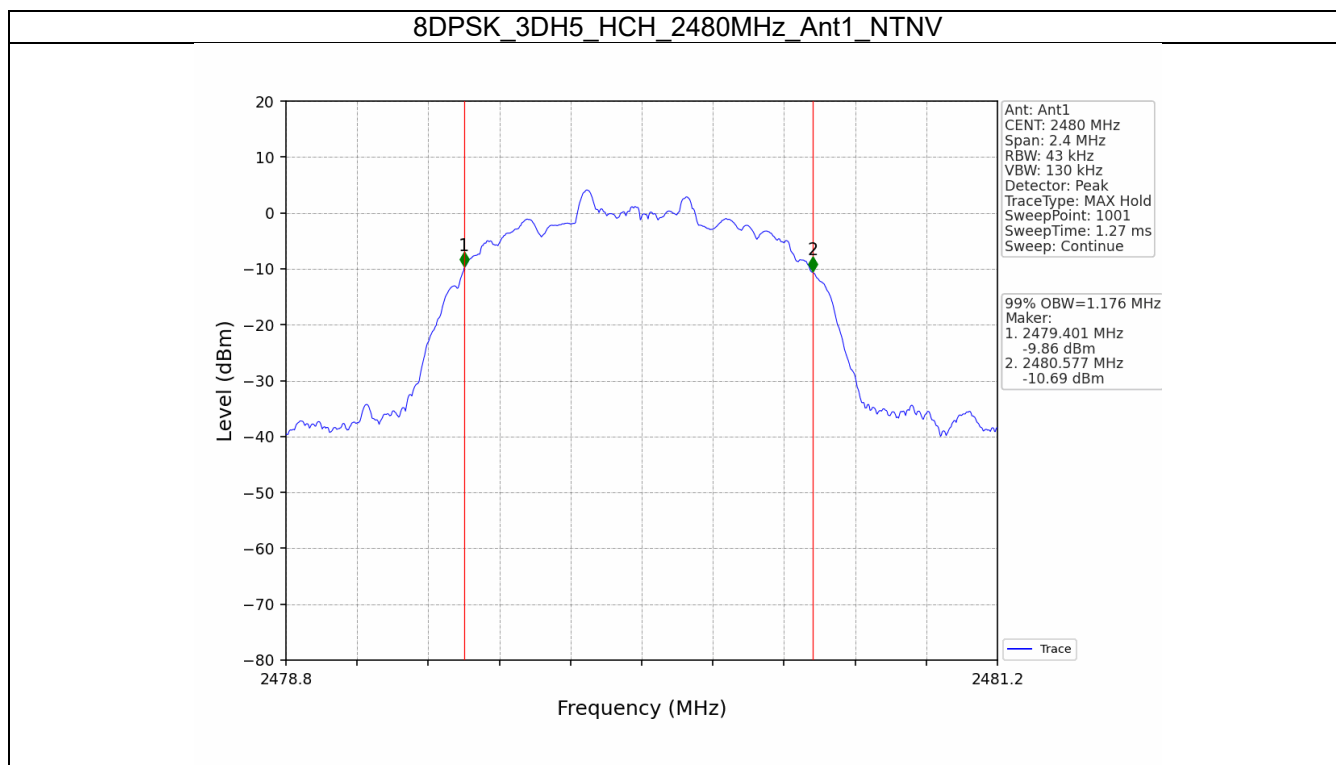
2.1.2 Test Graph









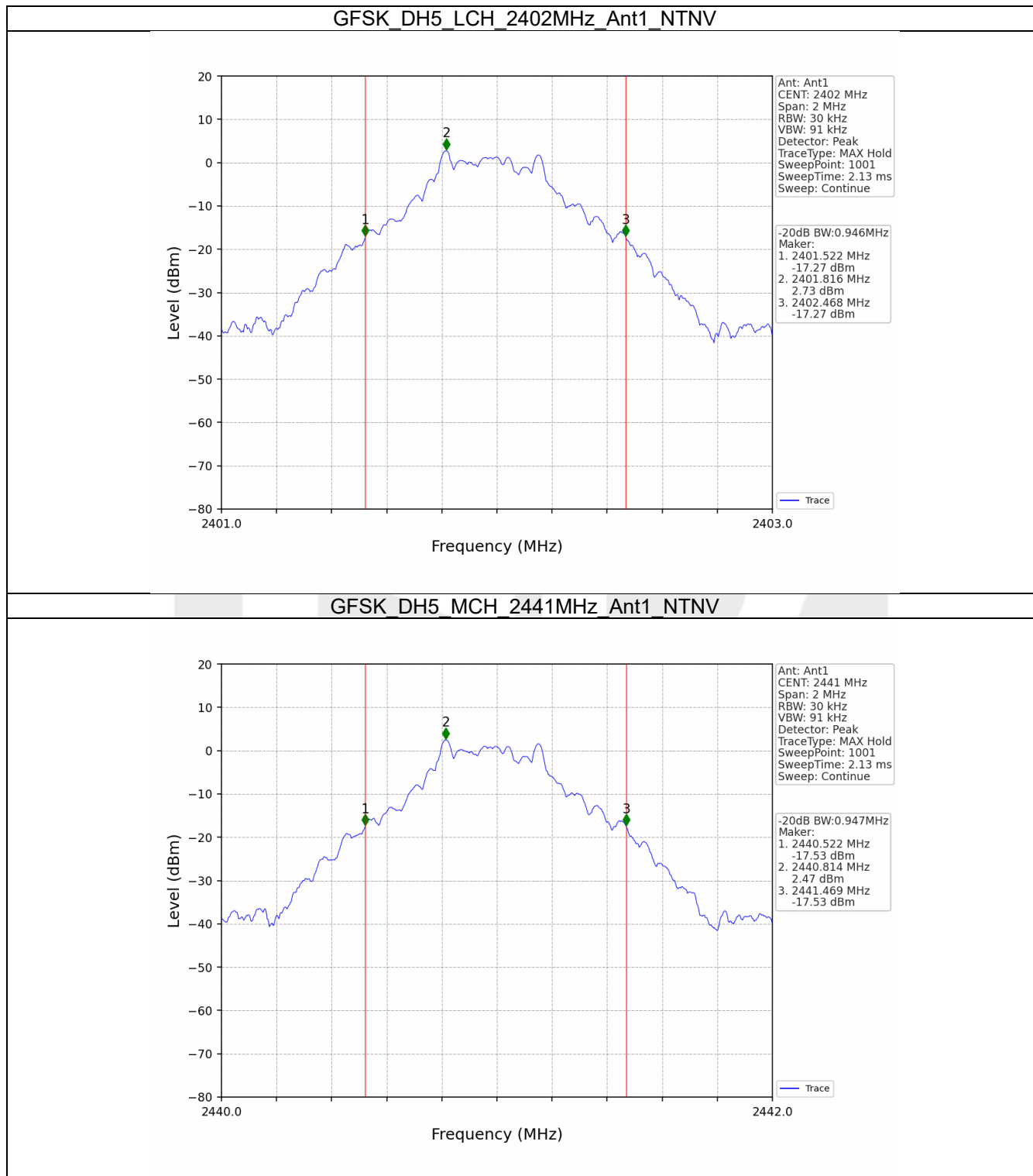


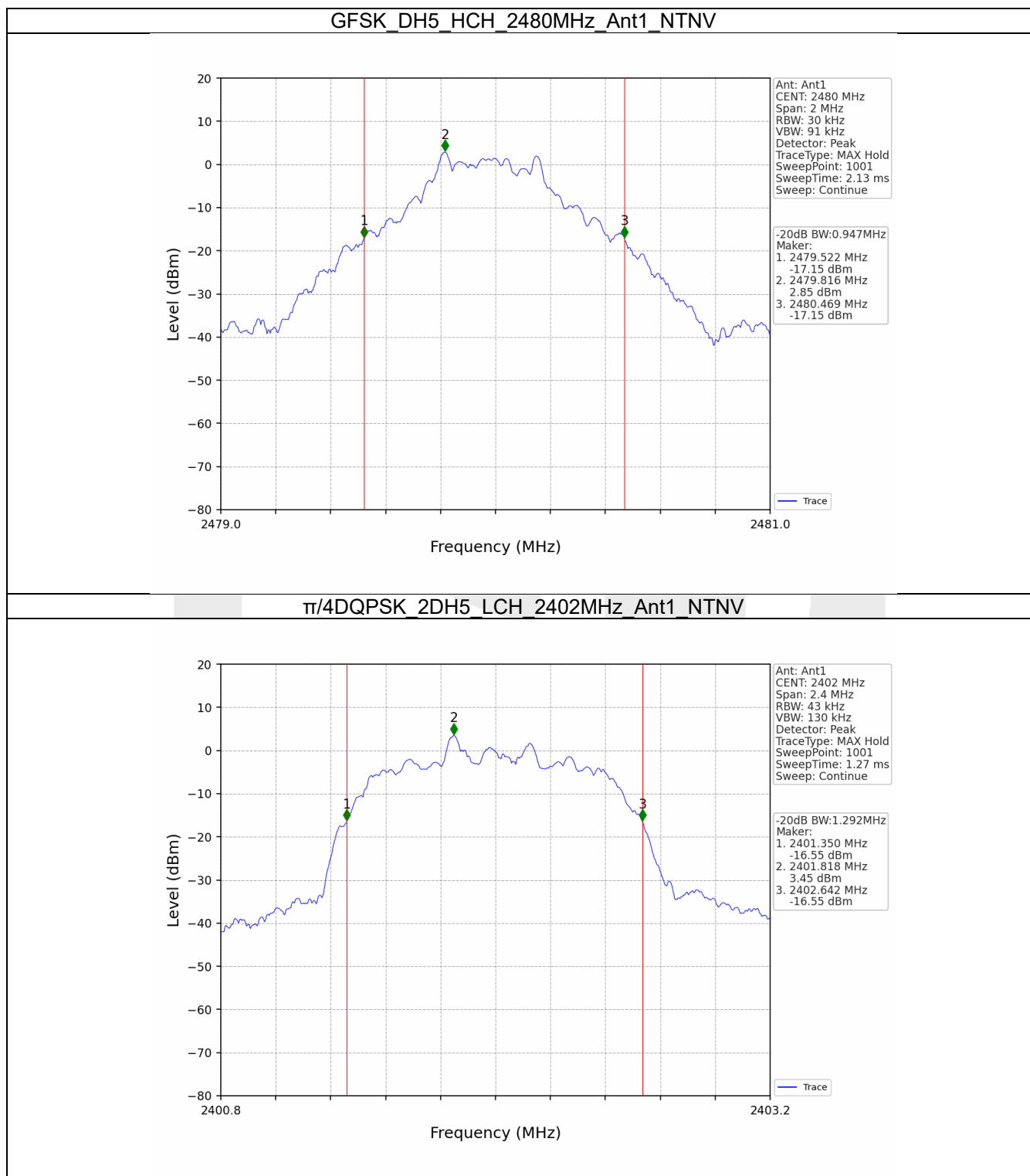
2.2 20dB BW

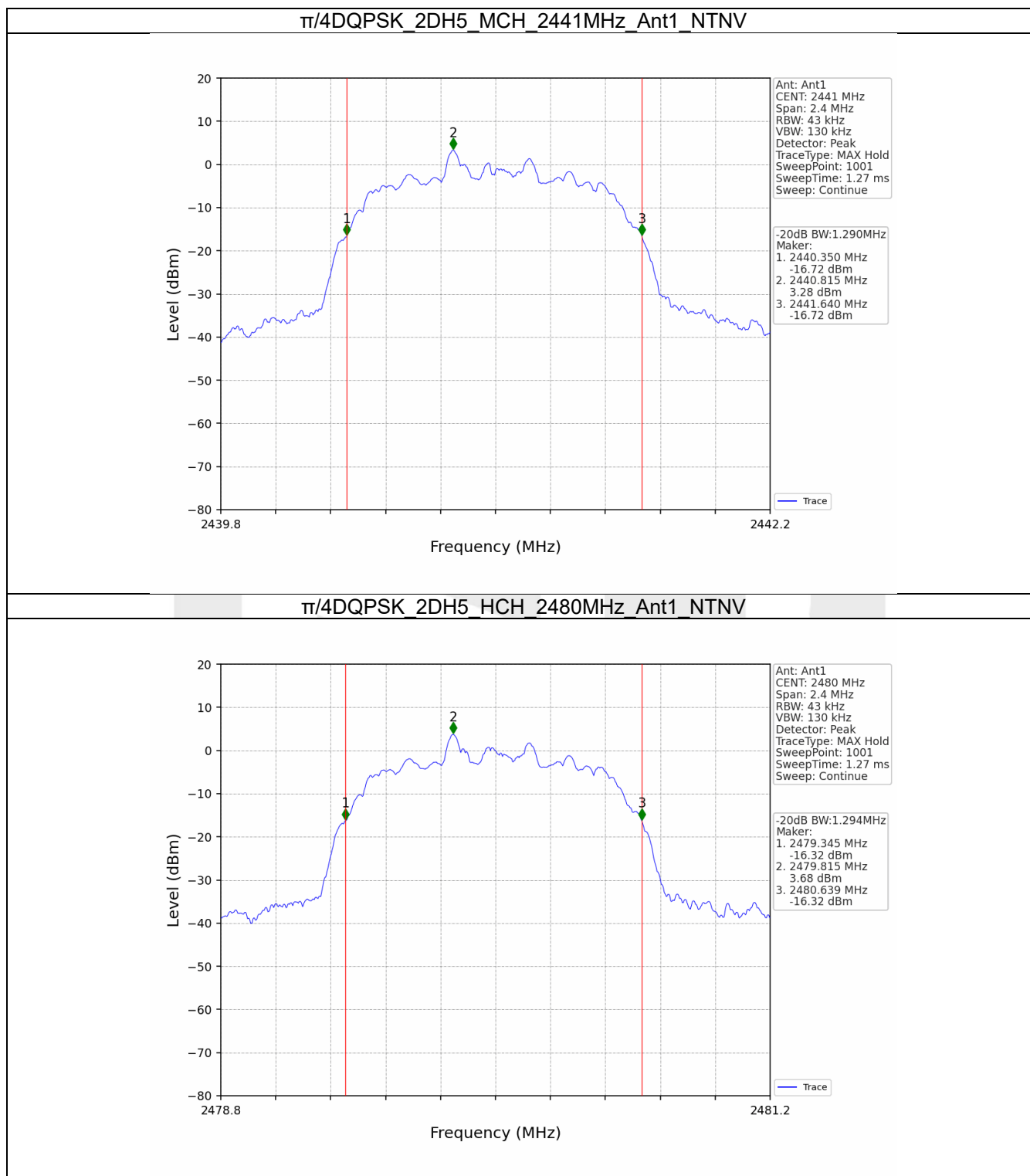
2.2.1 Test Result

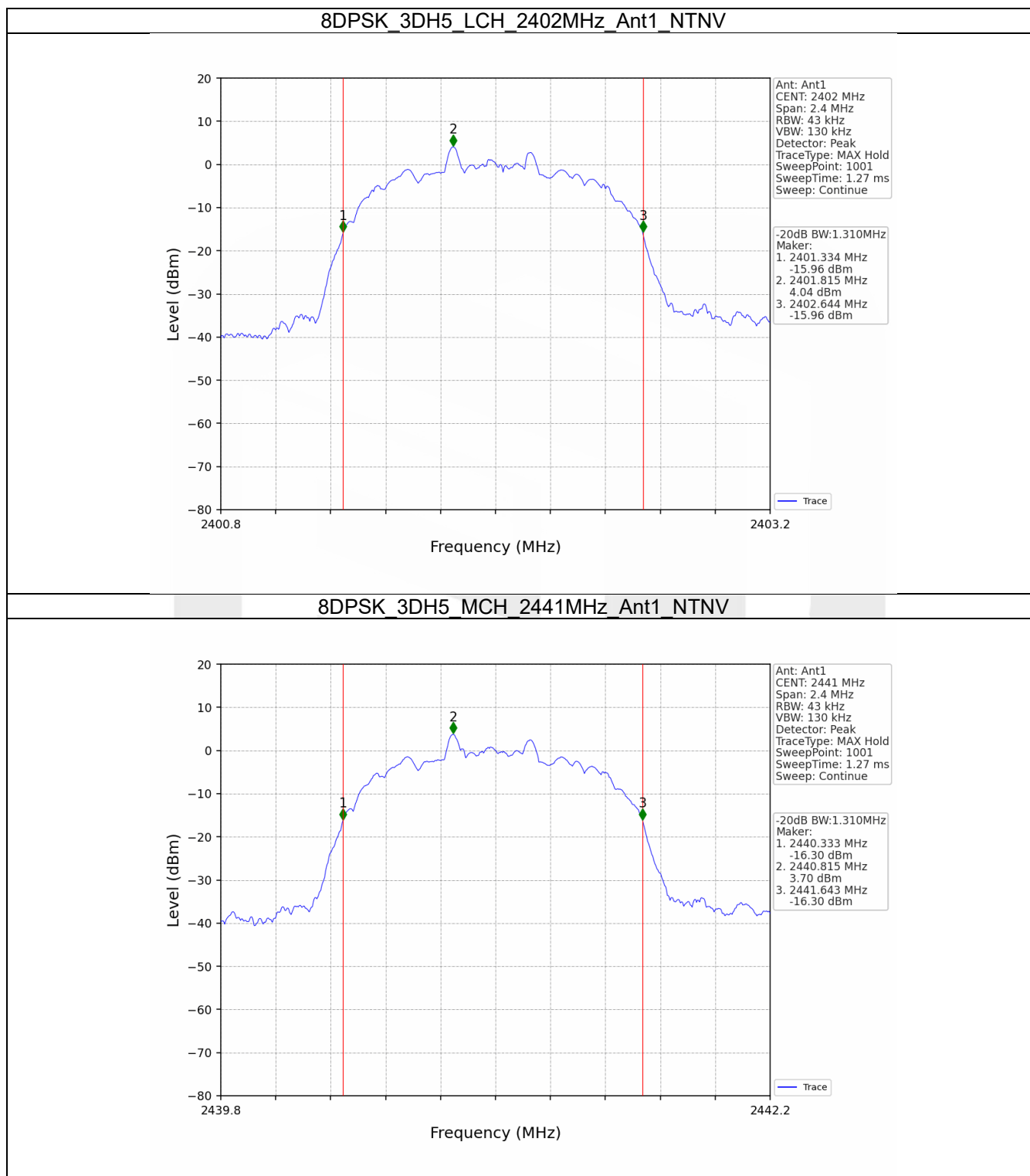
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.946	/	Pass
		2441	DH5	1	0.947	/	Pass
		2480	DH5	1	0.947	/	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	1.292	/	Pass
		2441	2DH5	1	1.290	/	Pass
		2480	2DH5	1	1.294	/	Pass
8DPSK	SISO	2402	3DH5	1	1.310	/	Pass
		2441	3DH5	1	1.310	/	Pass
		2480	3DH5	1	1.311	/	Pass

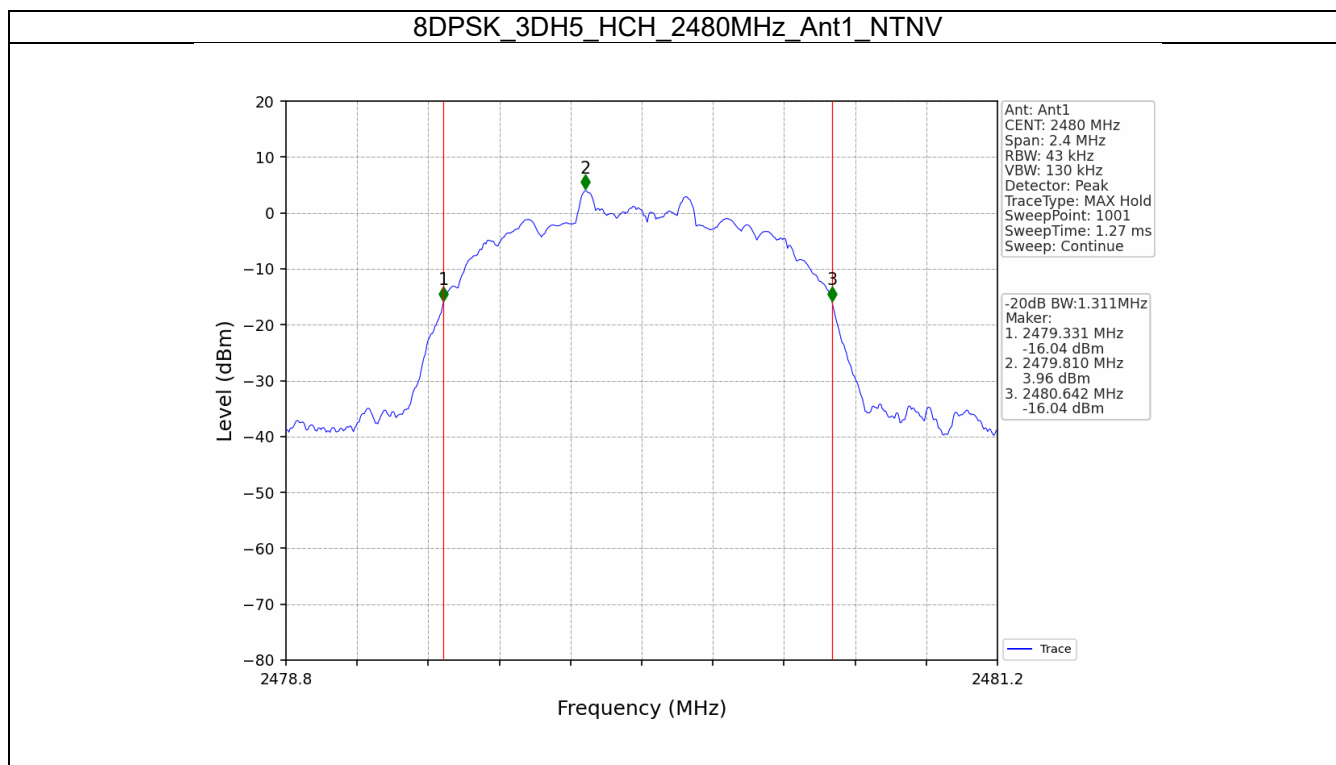
2.2.2 Test Graph











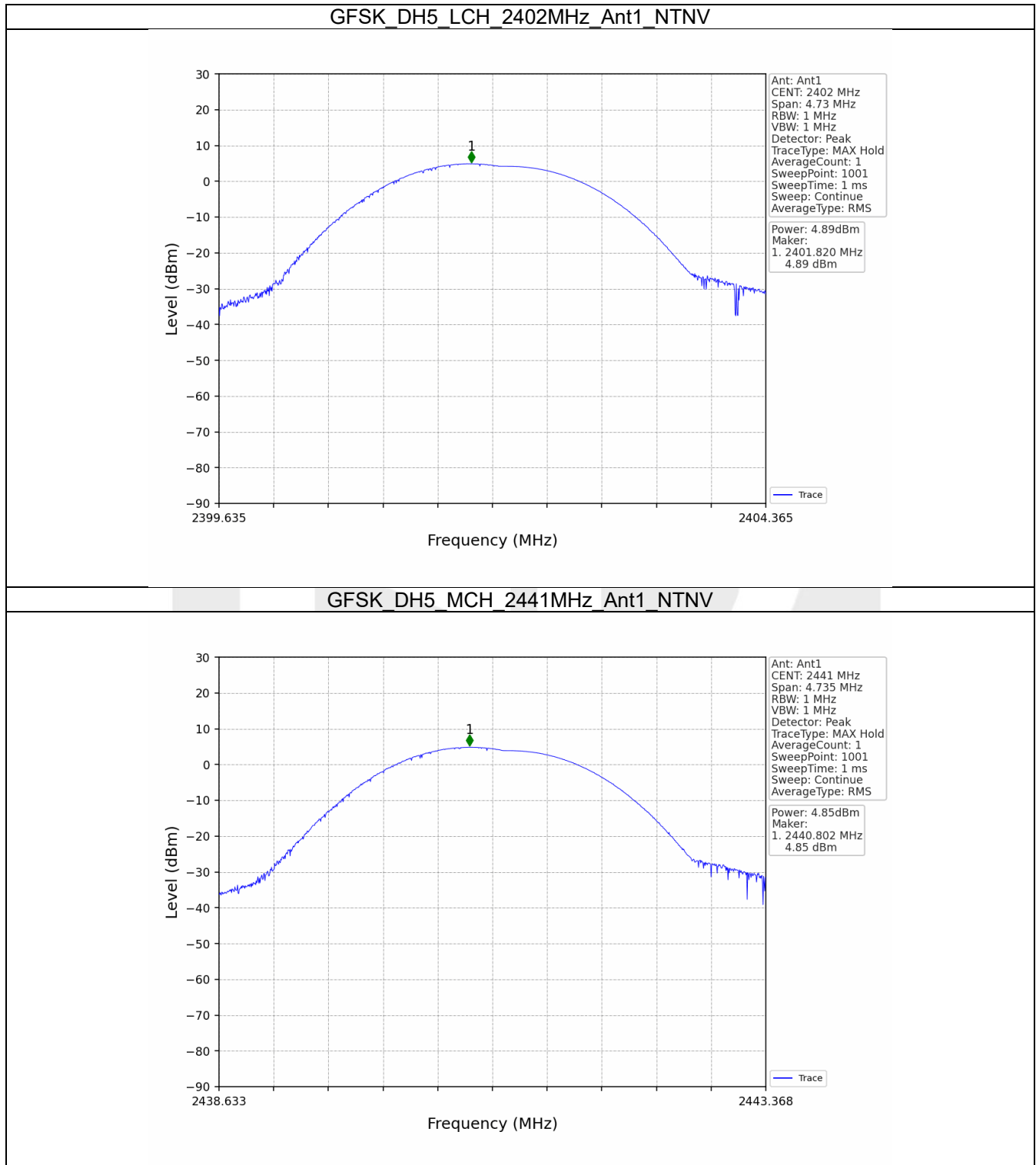
3. Maximum Conducted Output Power

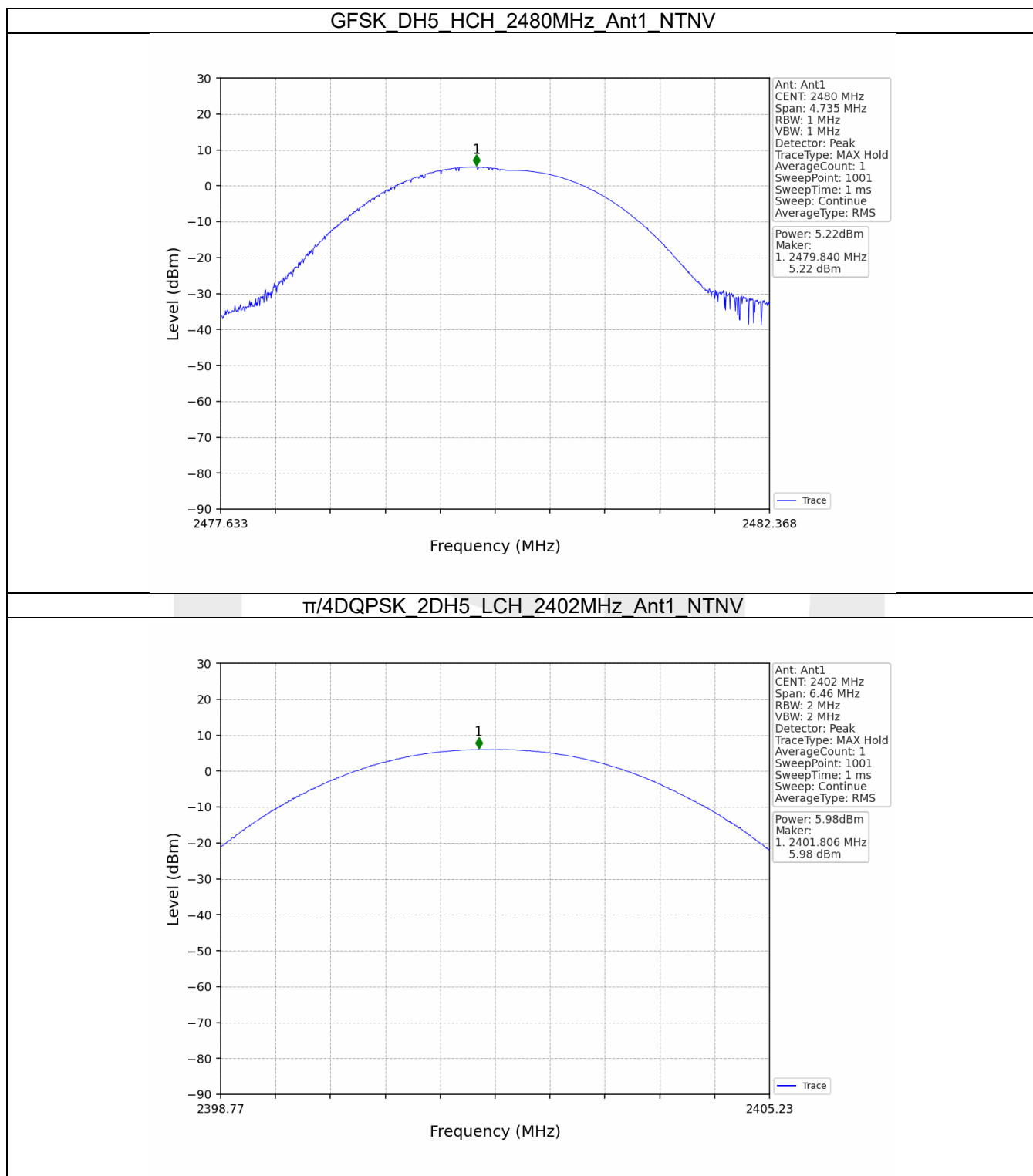
3.1 Power

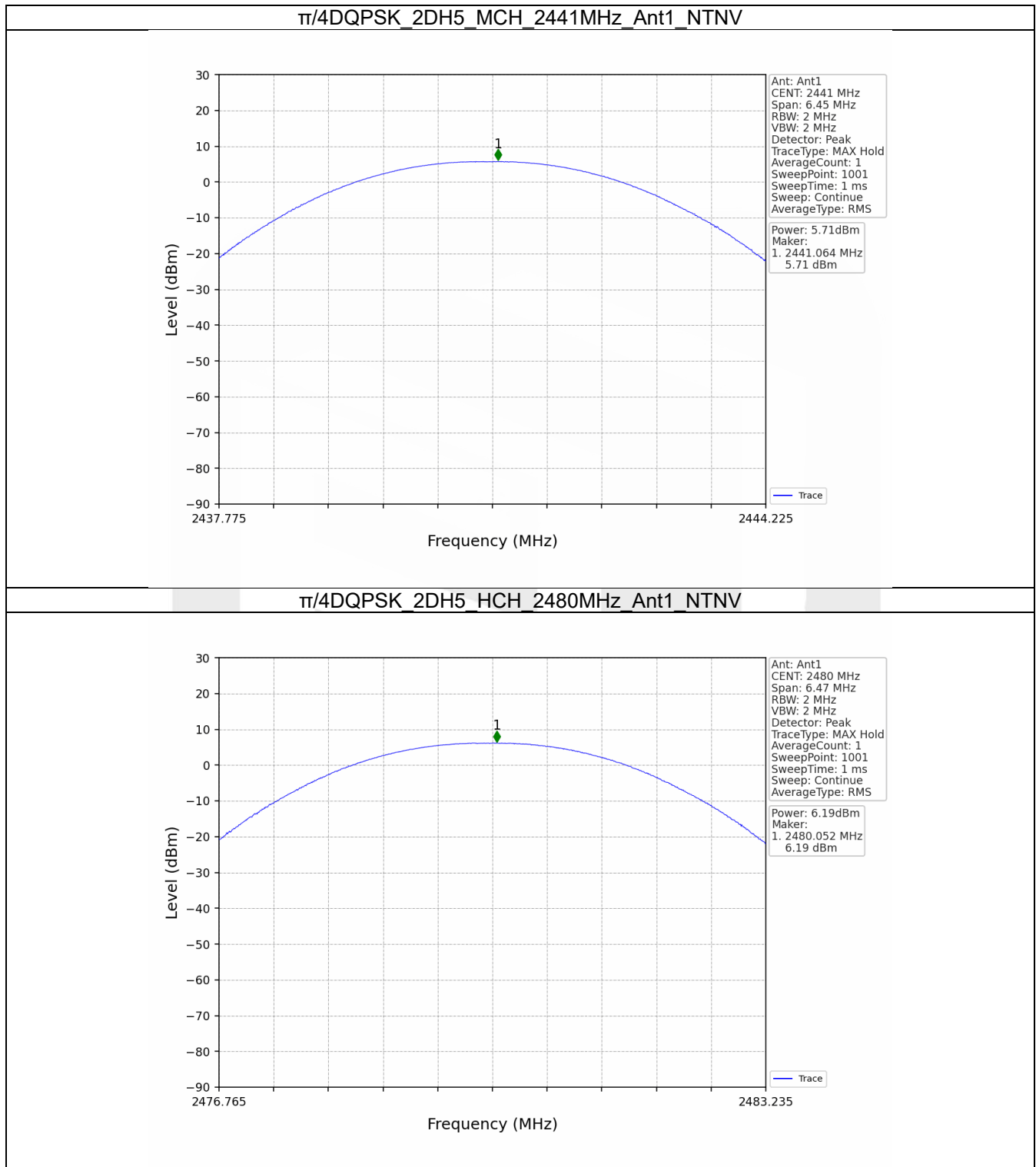
3.1.1 Test Result

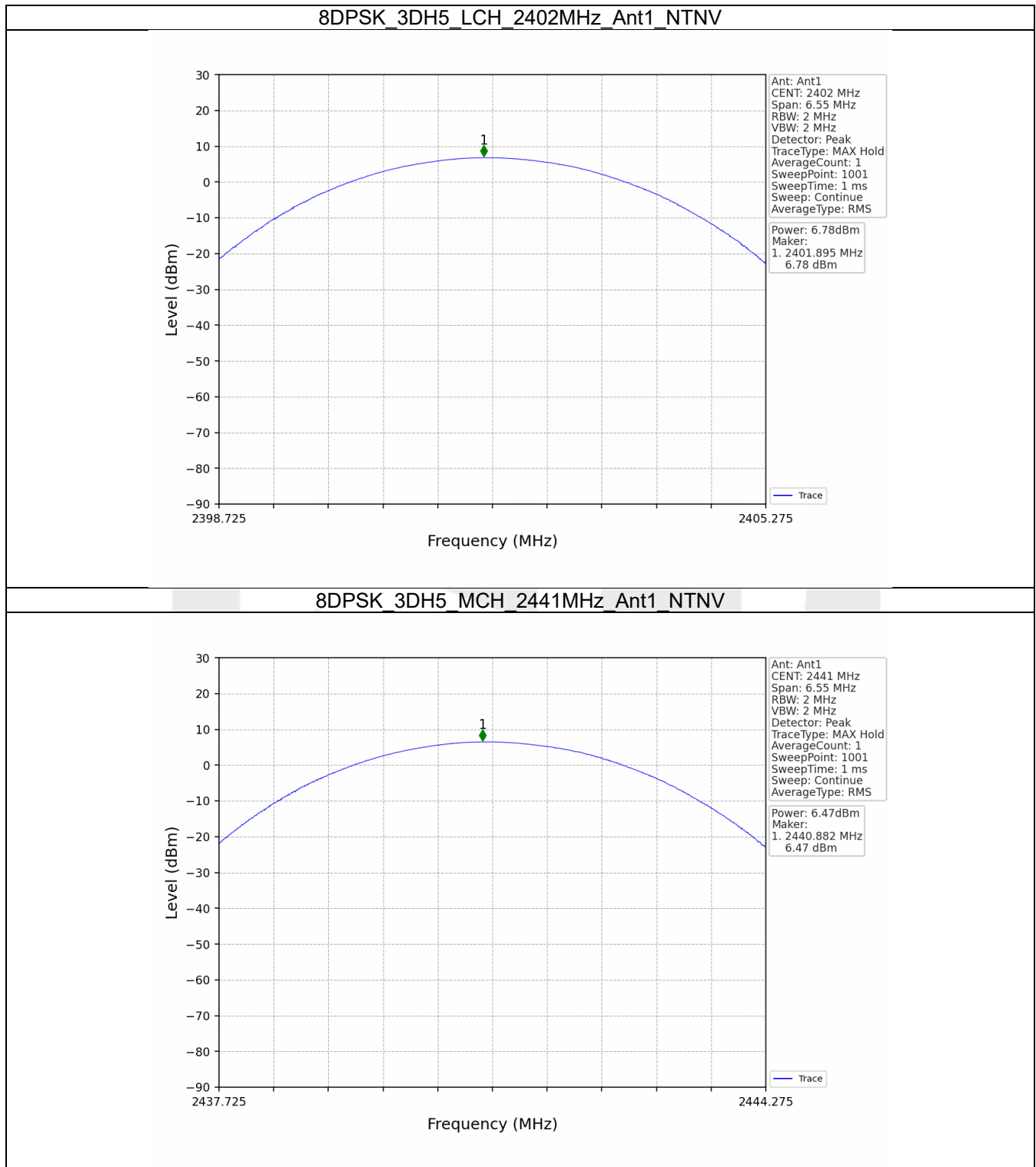
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	4.89	≤ 30	Pass
		2441	DH5	4.85	≤ 30	Pass
		2480	DH5	5.22	≤ 30	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	5.98	≤ 20.97	Pass
		2441	2DH5	5.71	≤ 20.97	Pass
		2480	2DH5	6.19	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	6.78	≤ 20.97	Pass
		2441	3DH5	6.47	≤ 20.97	Pass
		2480	3DH5	6.89	≤ 20.97	Pass

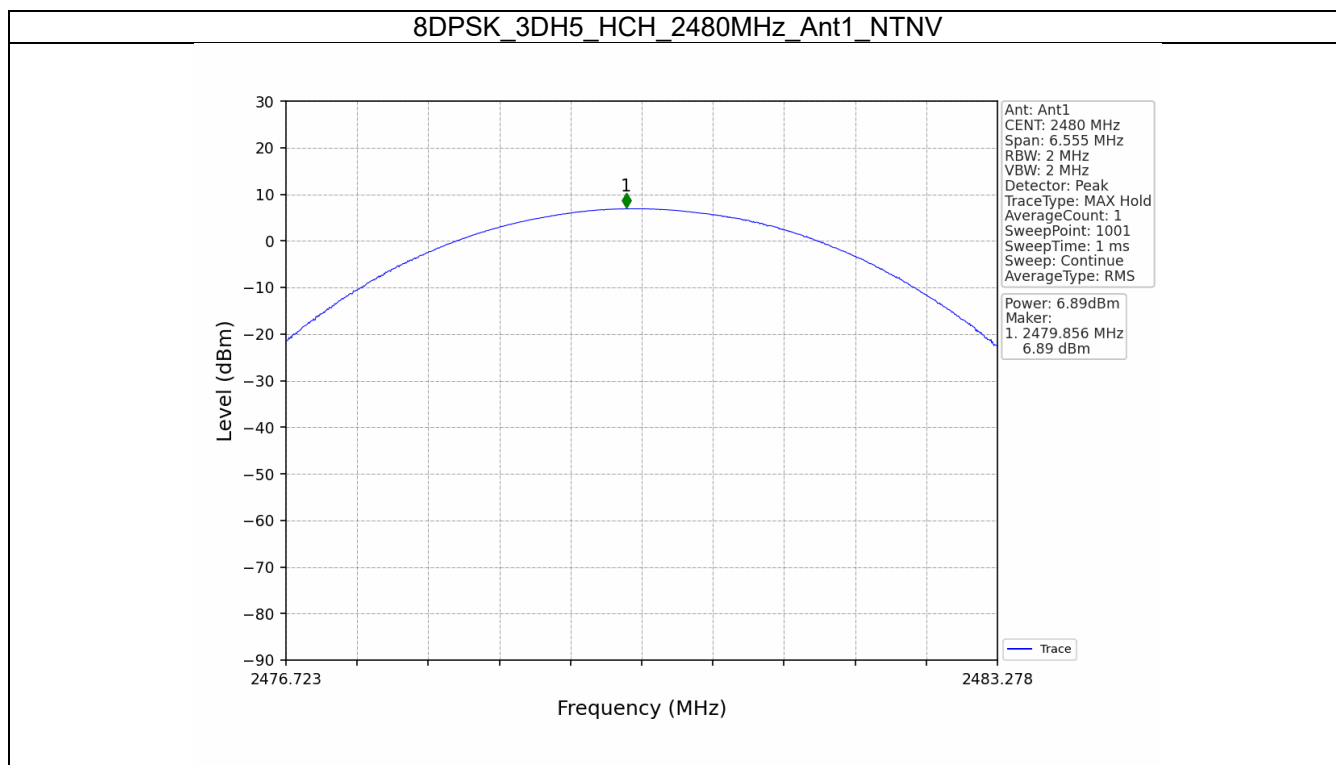
3.1.2 Test Graph











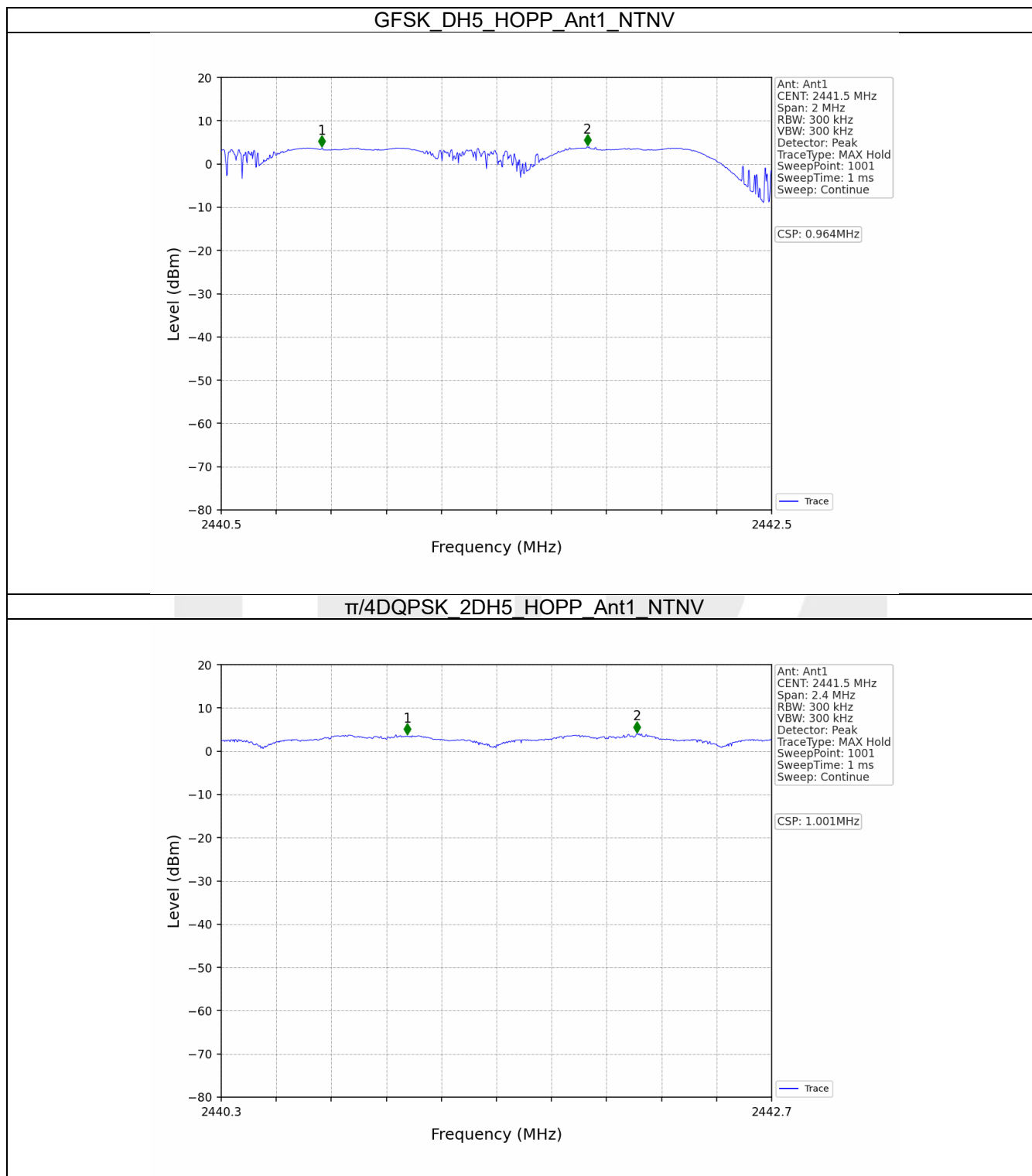
4. Carrier Frequency Separation

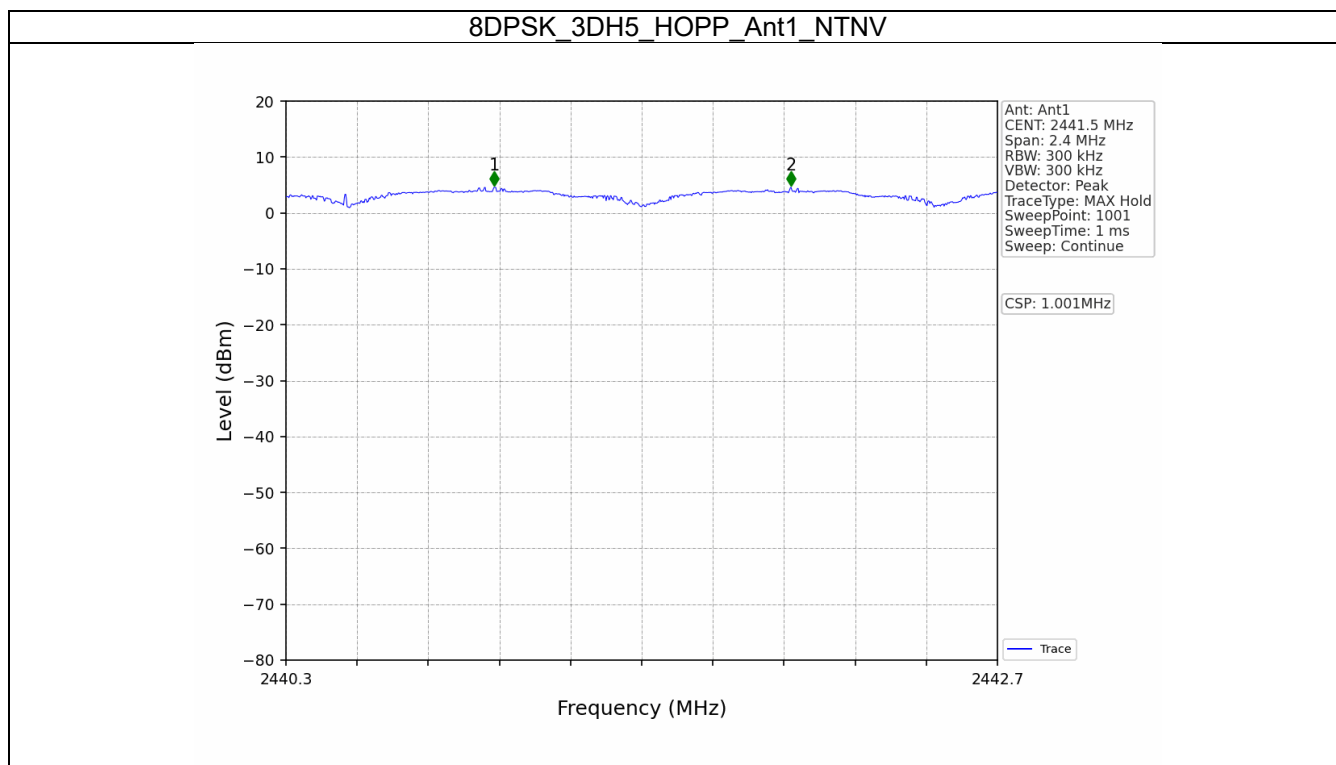
4.1 Ant1

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	0.964	0.947	≥ 0.947	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH5	1.001	1.294	≥ 0.863	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.311	≥ 0.874	Pass

4.1.2 Test Graph





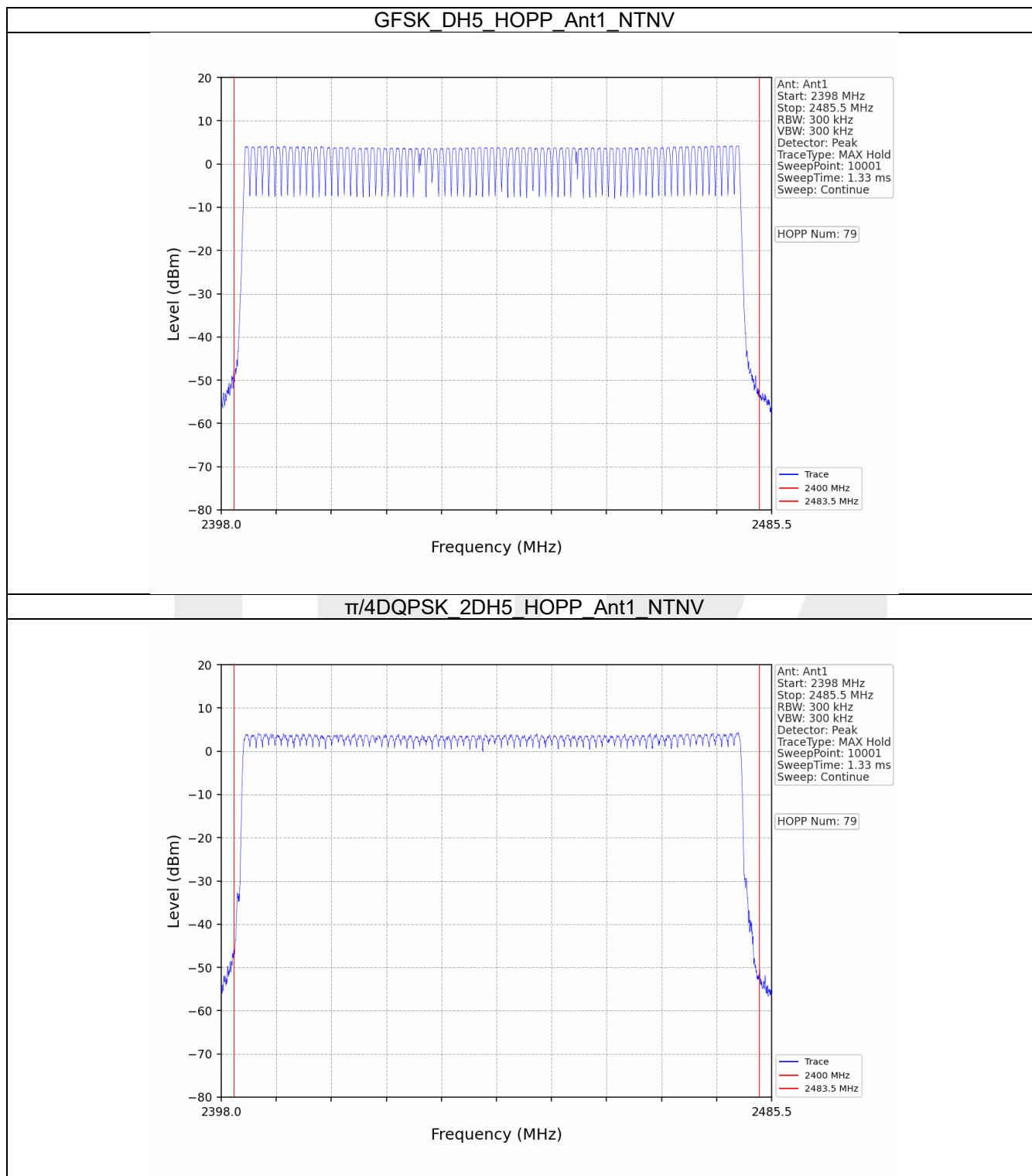
5. Number of Hopping Frequencies

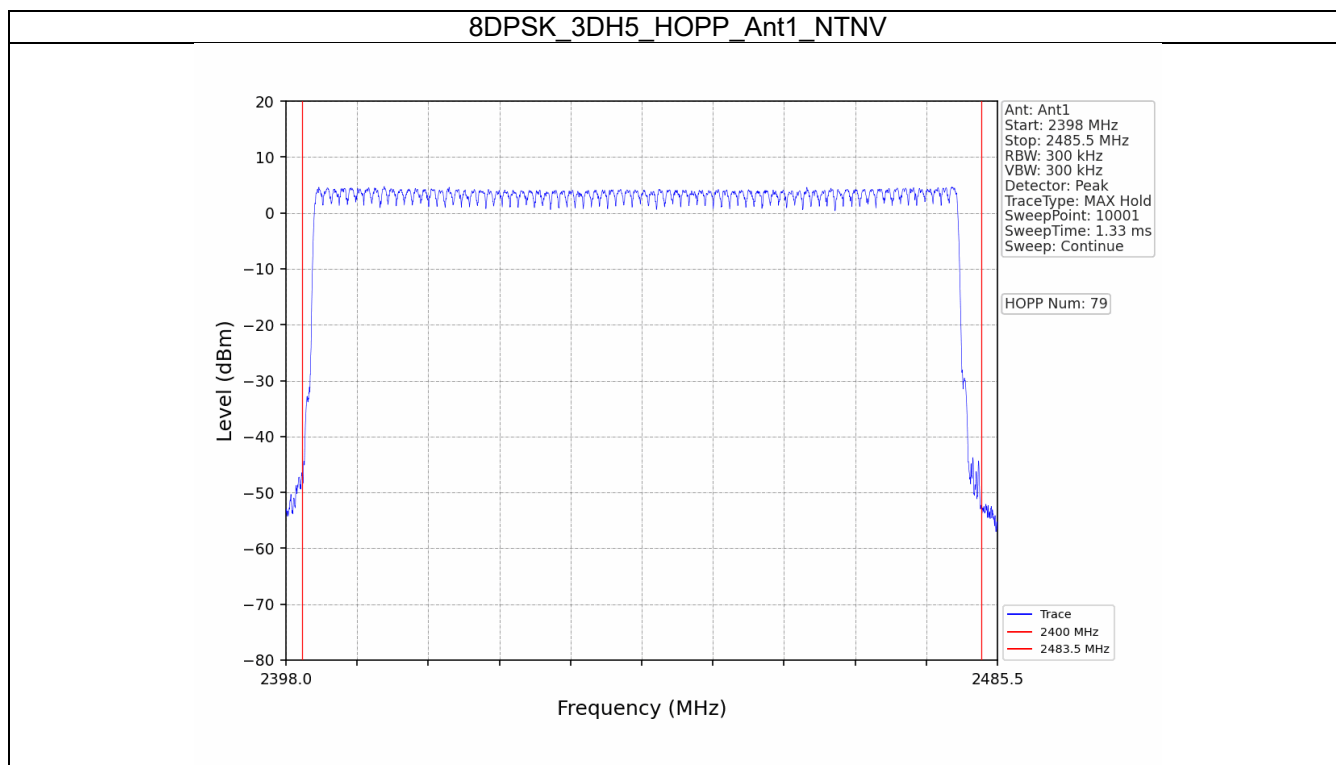
5.1 HoppNum

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
$\pi/4$ DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

5.1.2 Test Graph





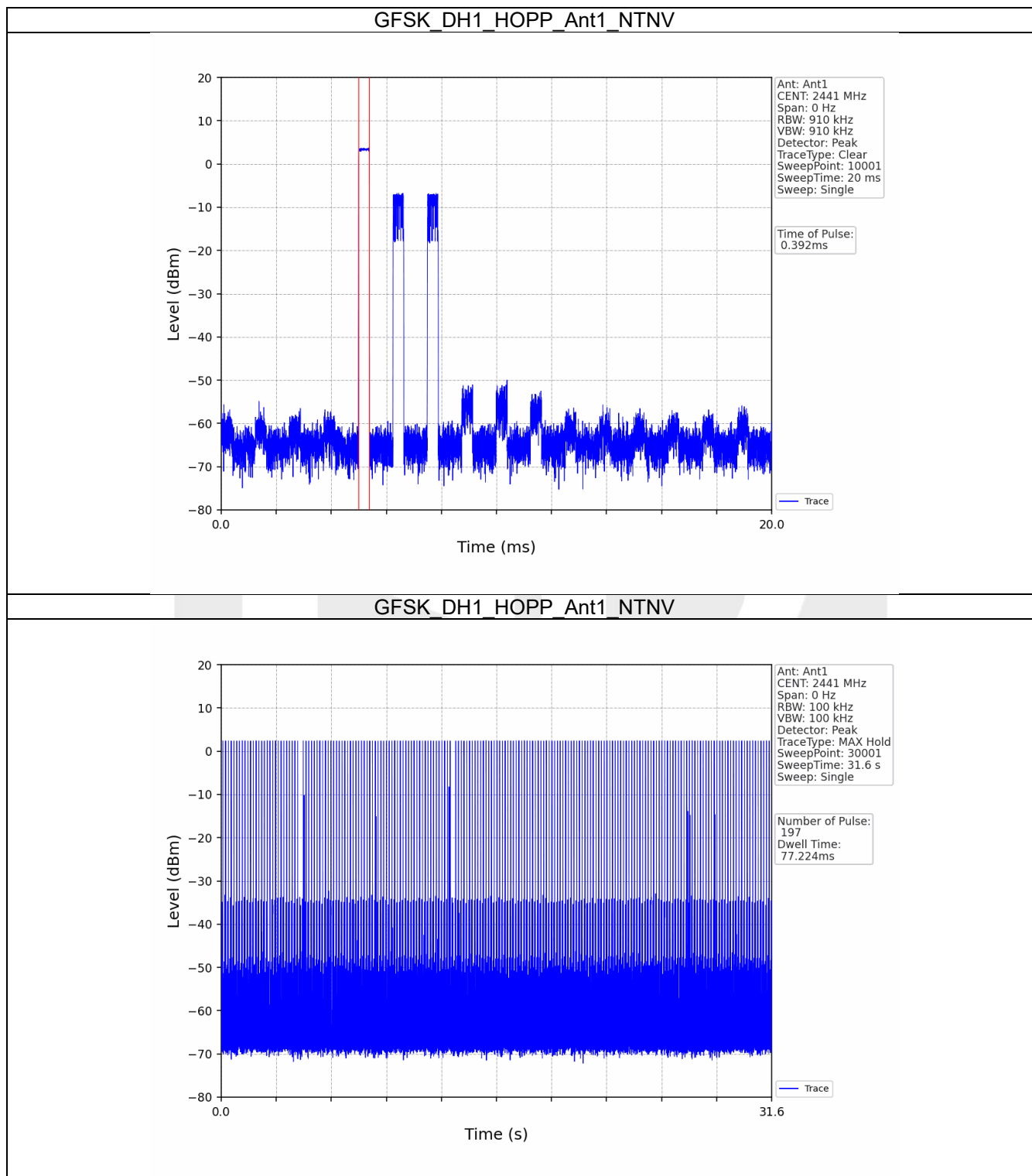
6. Time of Occupancy (Dwell Time)

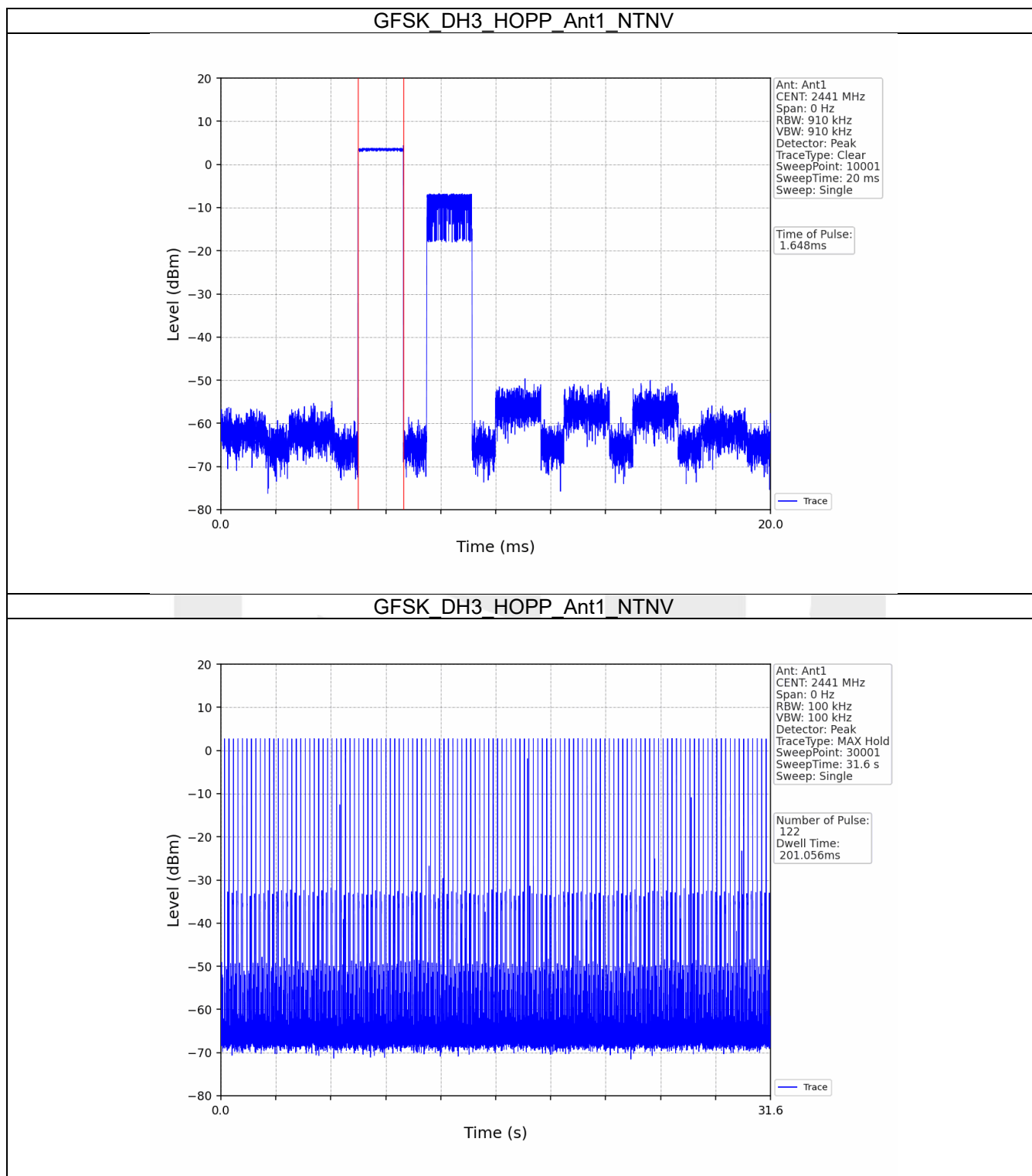
6.1 Ant1

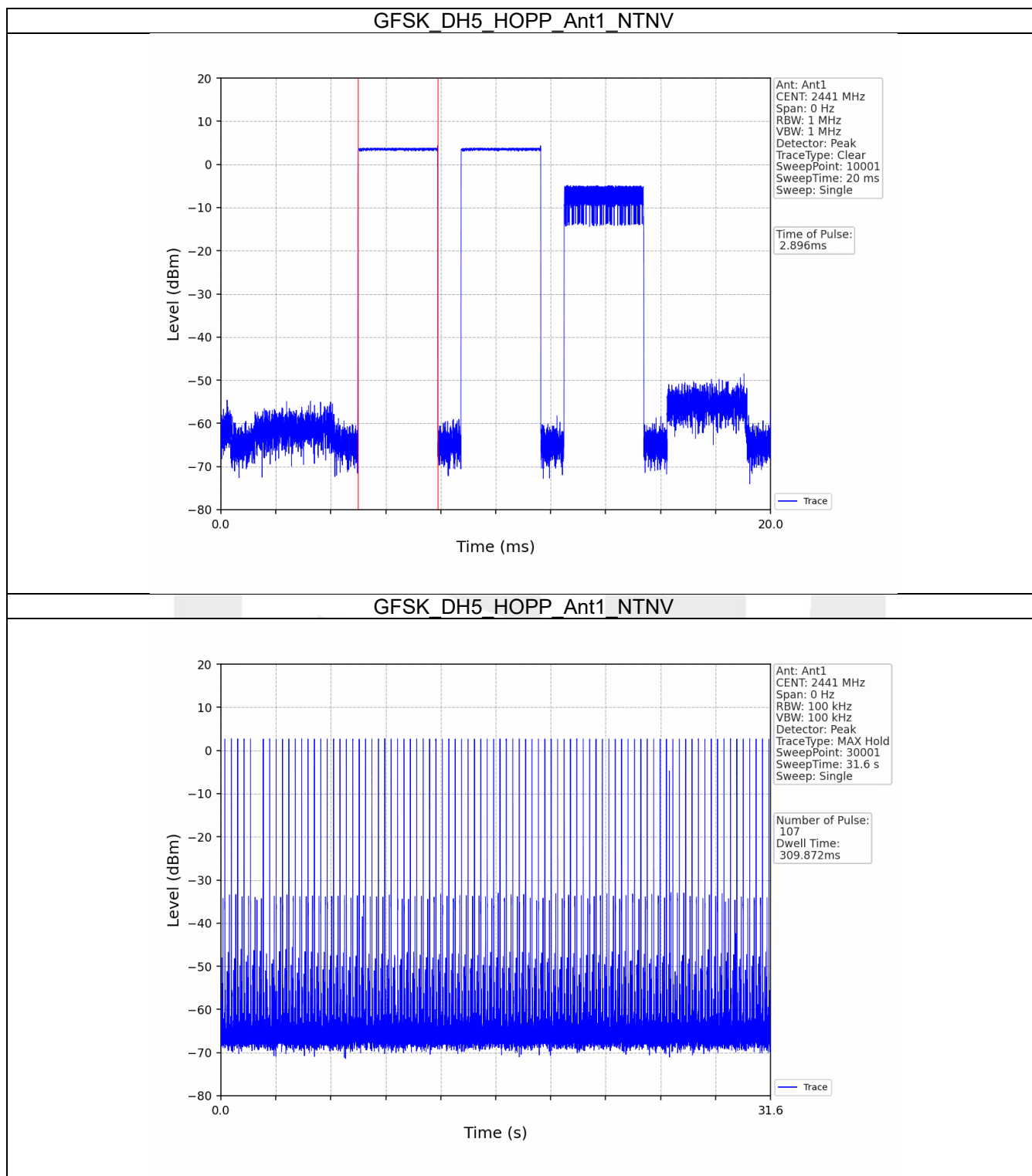
6.1.1 Test Result

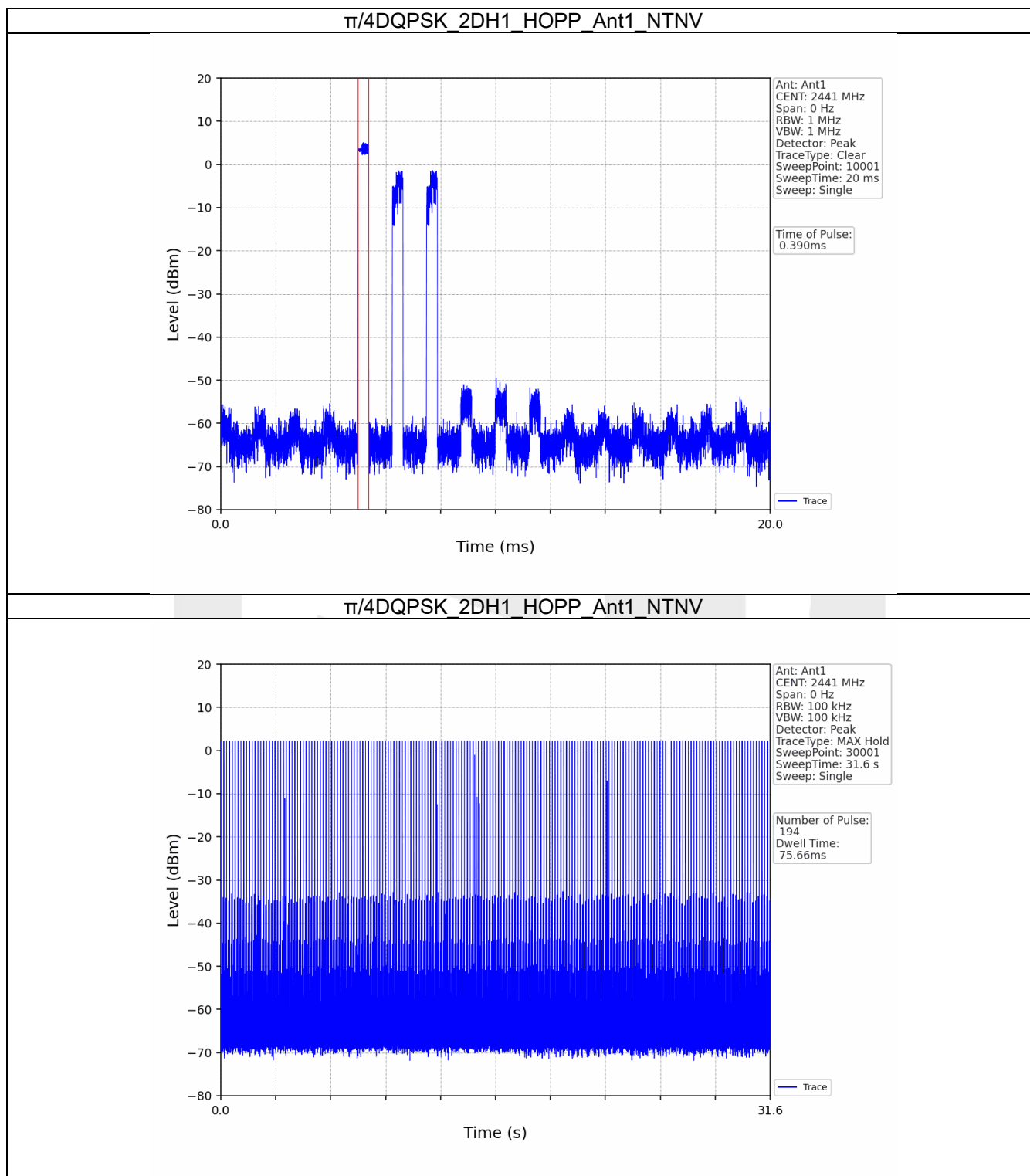
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.392	31.600	197	77.224	<=400	Pass
			DH3	1.648	31.600	122	201.056	<=400	Pass
			DH5	2.896	31.600	107	309.872	<=400	Pass
$\pi/4$ DQPSK	SISO	HOPP	2DH1	0.390	31.600	194	75.660	<=400	Pass
			2DH3	1.640	31.600	120	196.800	<=400	Pass
			2DH5	2.890	31.600	86	248.540	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.388	31.600	328	127.264	<=400	Pass
			3DH3	1.638	31.600	119	194.922	<=400	Pass
			3DH5	2.890	31.600	85	245.650	<=400	Pass

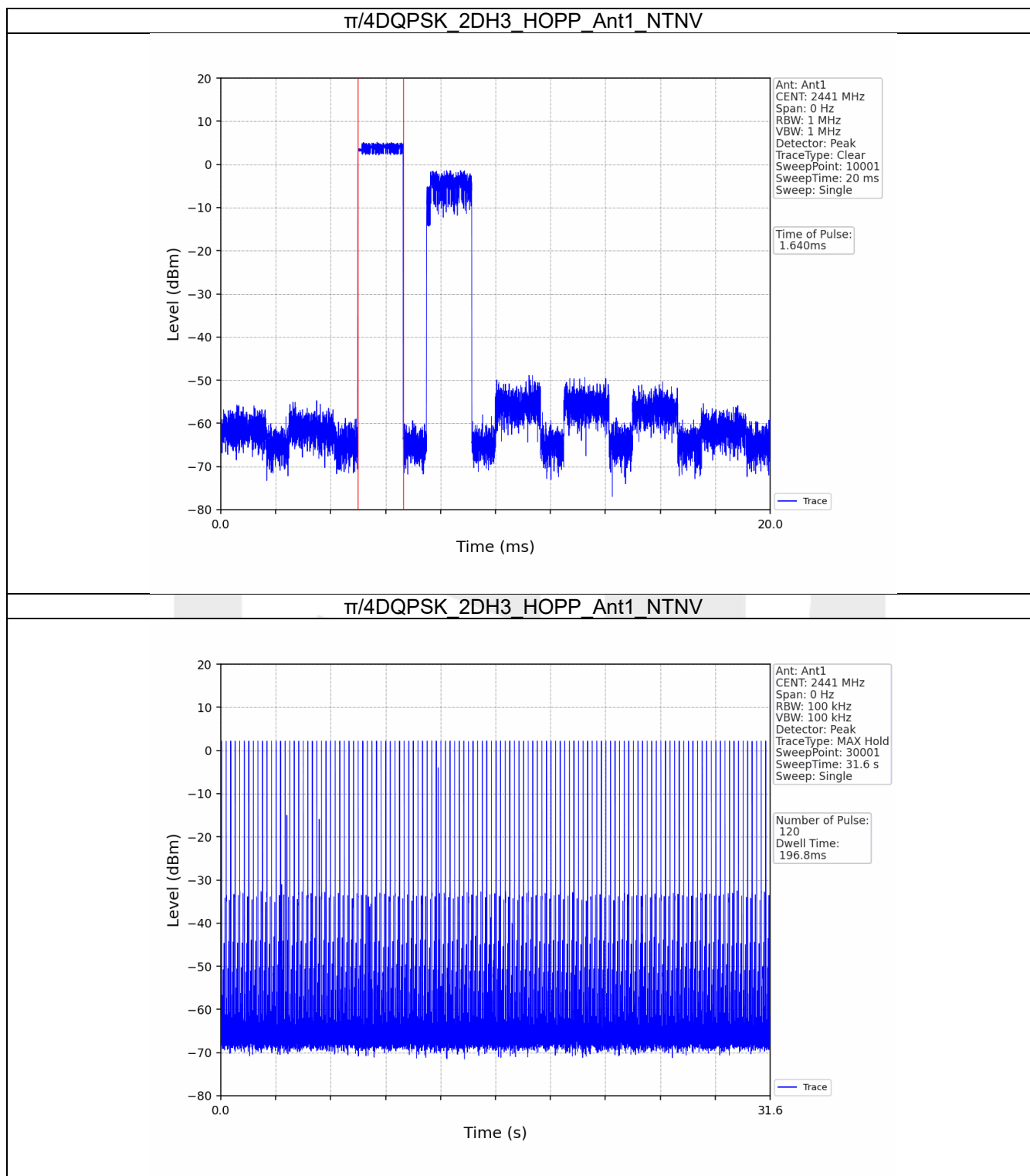
6.1.2 Test Graph

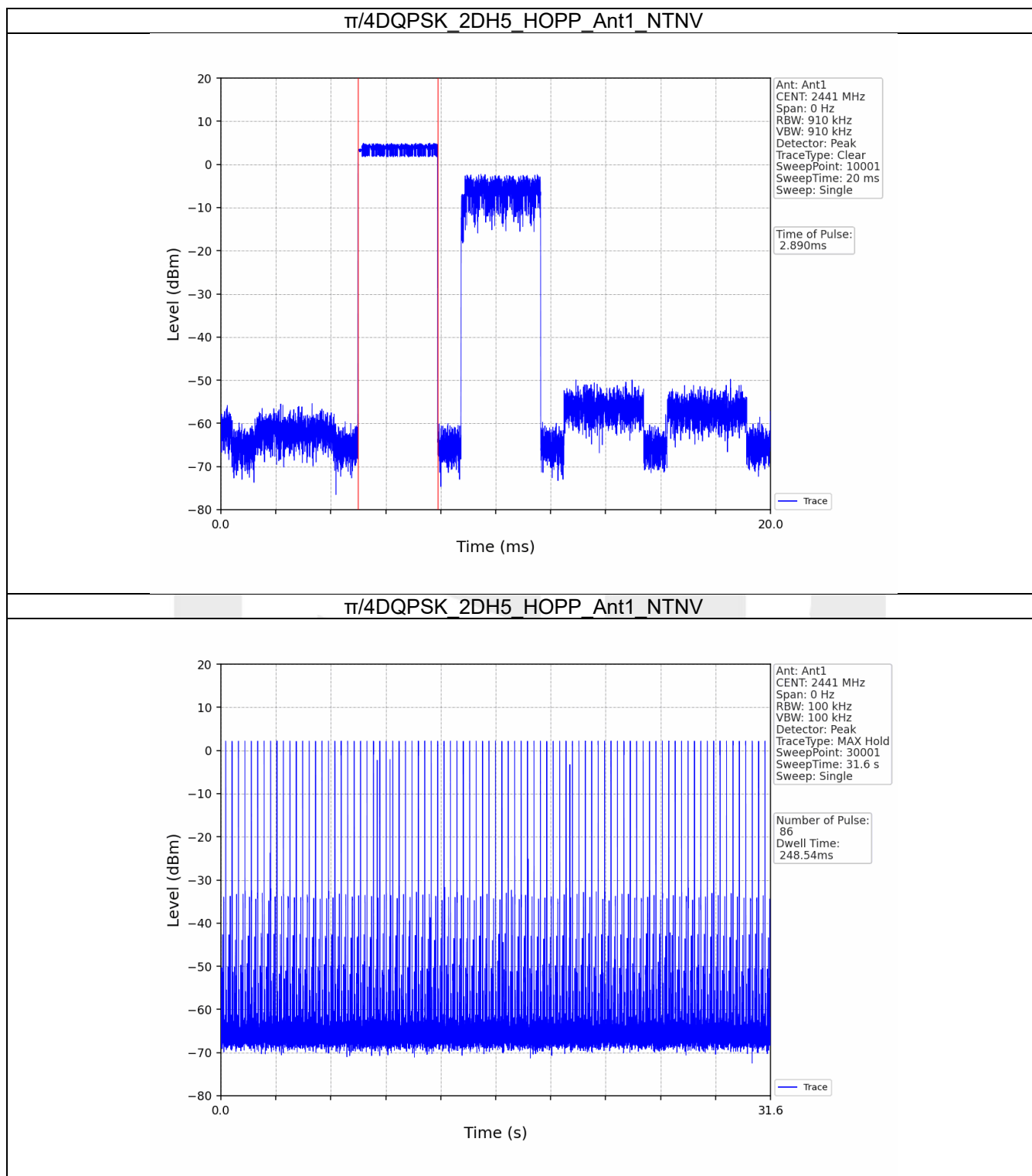


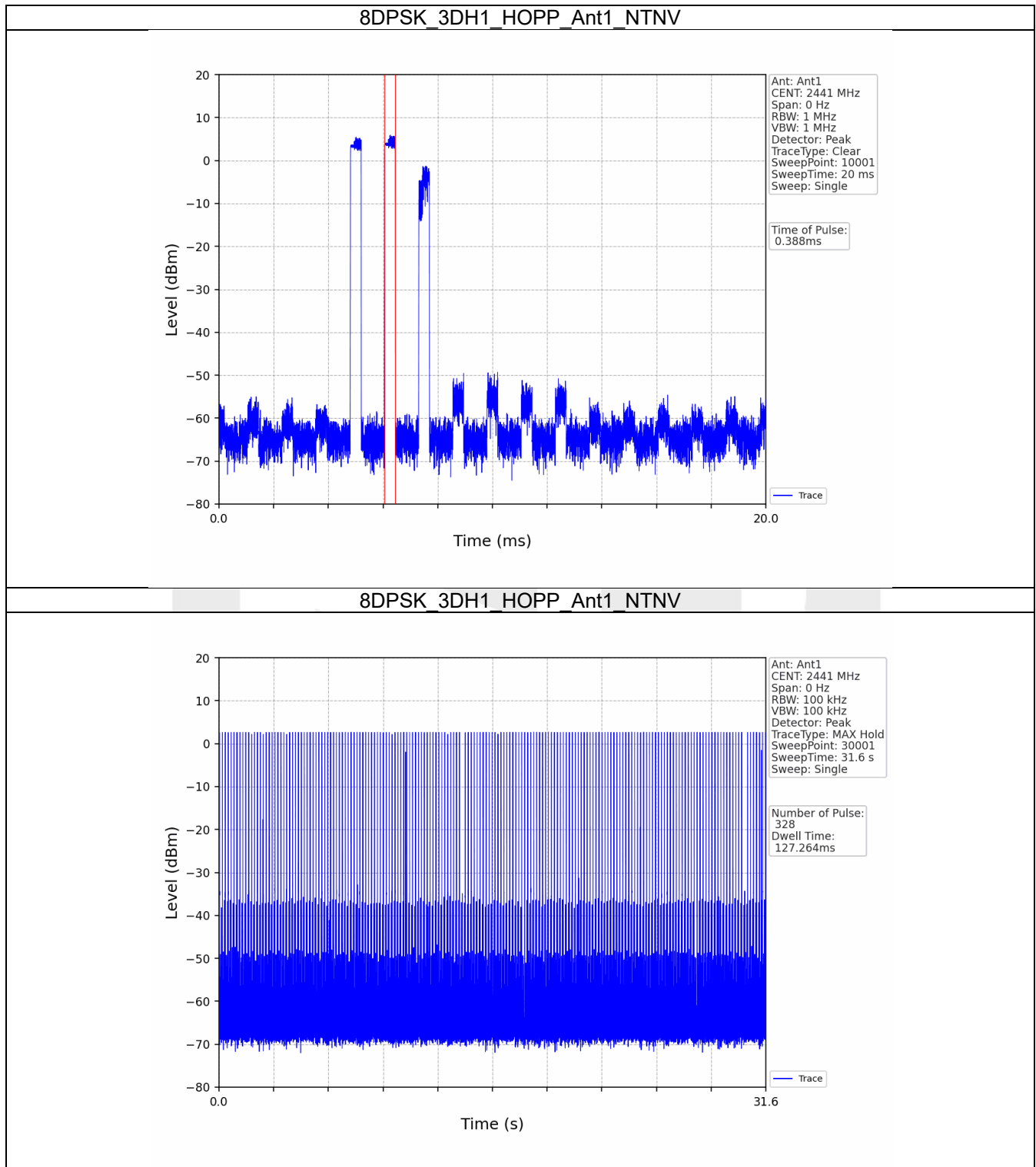


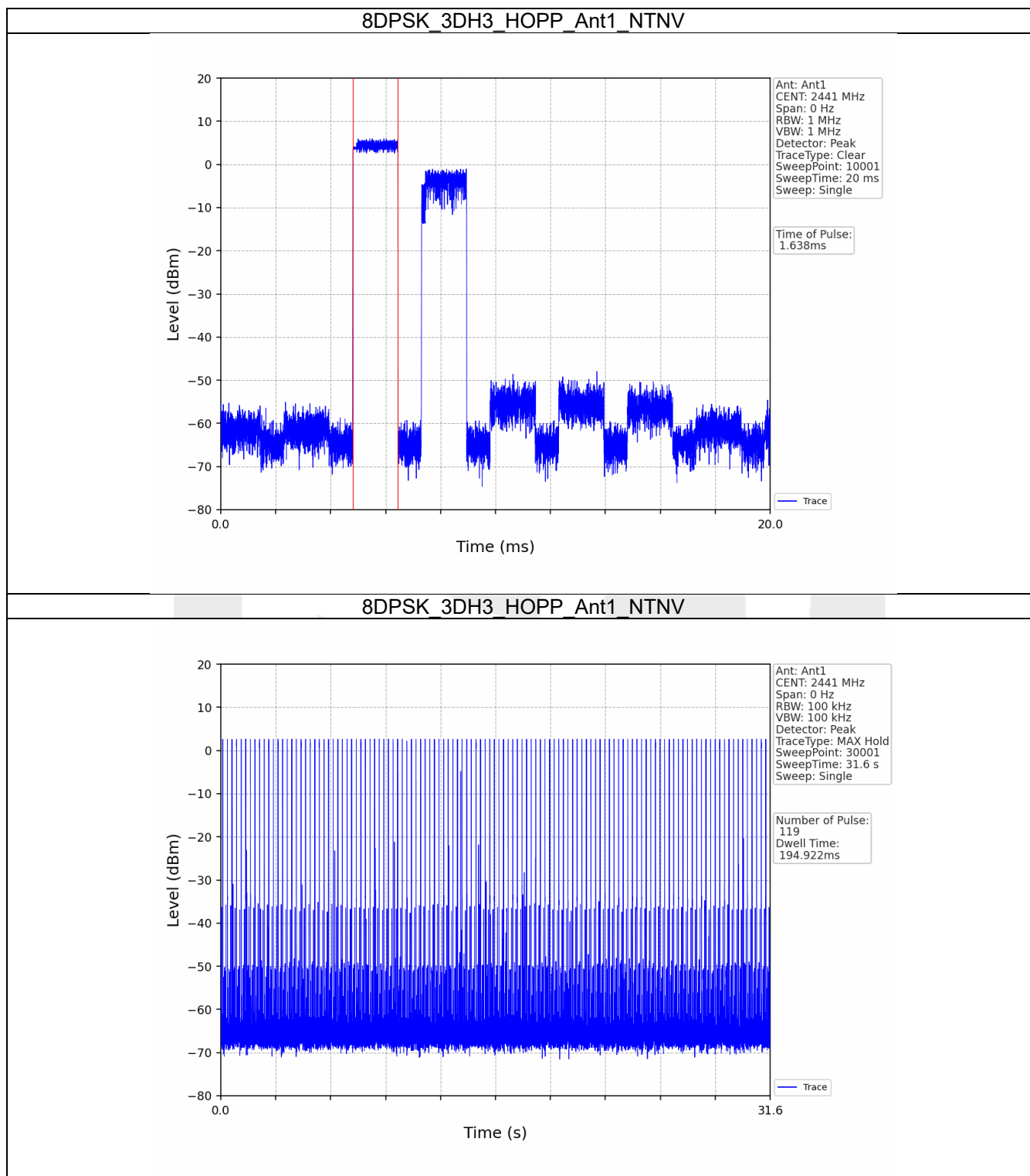


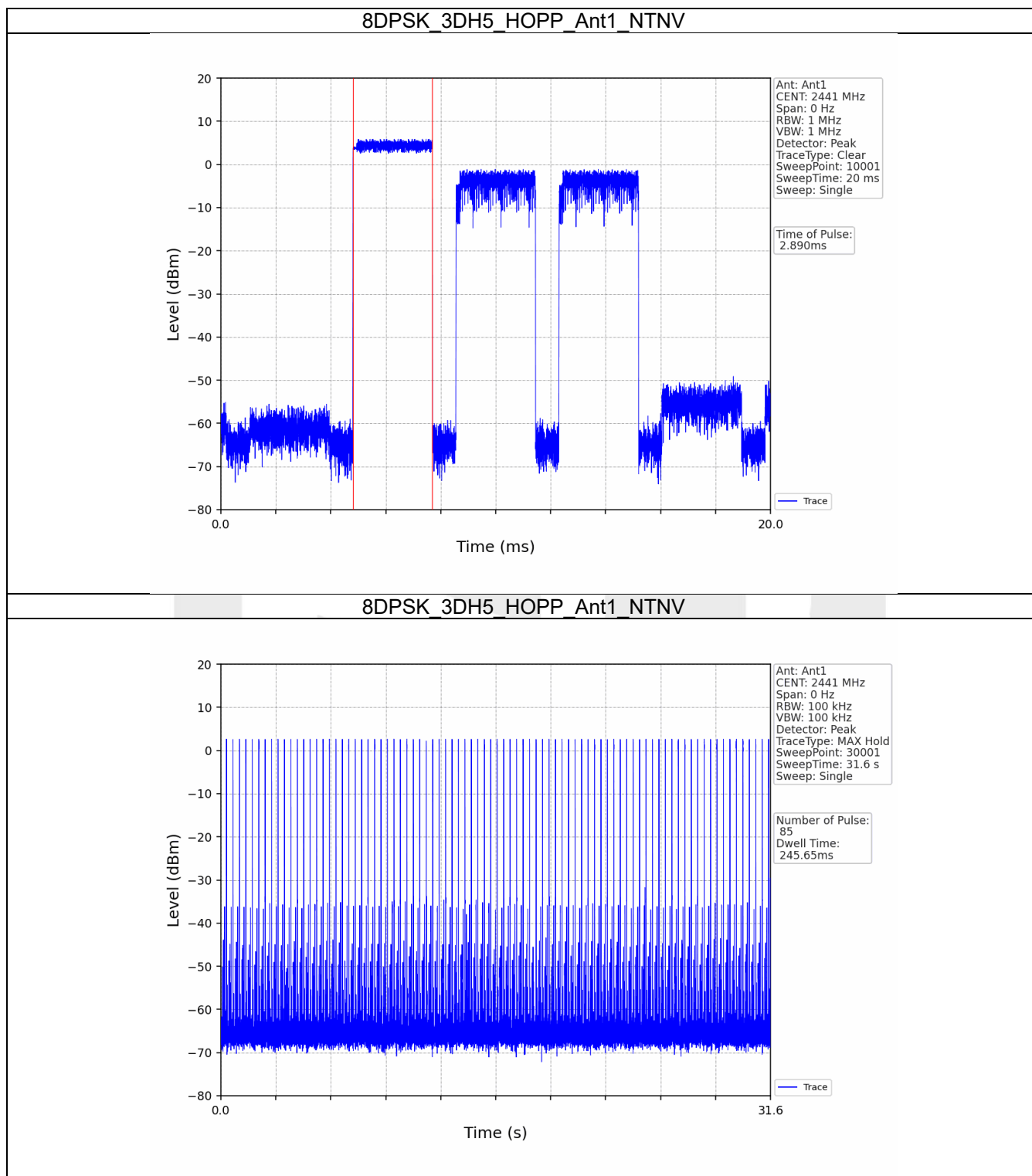












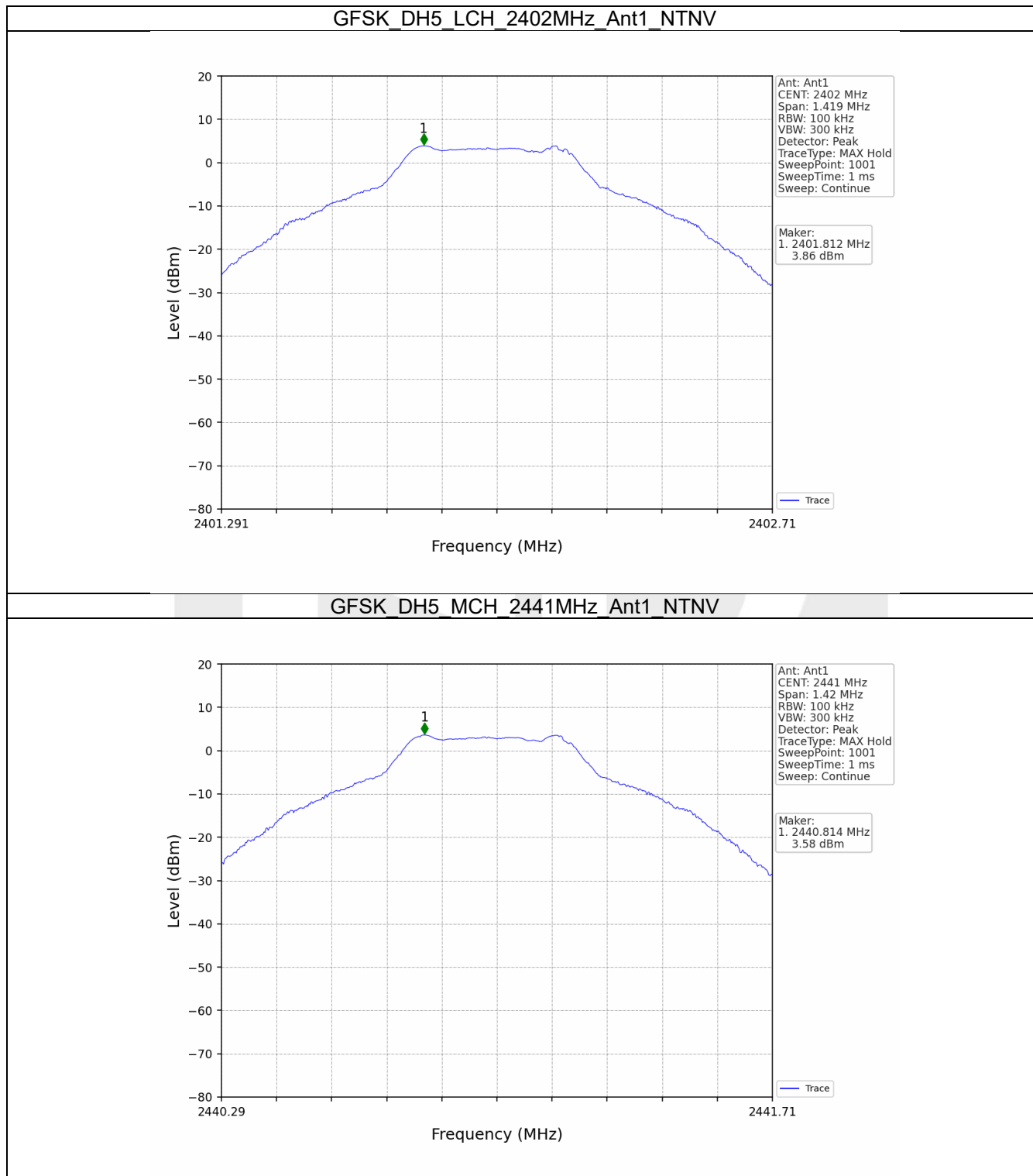
7. Unwanted Emissions In Non-restricted Frequency Bands

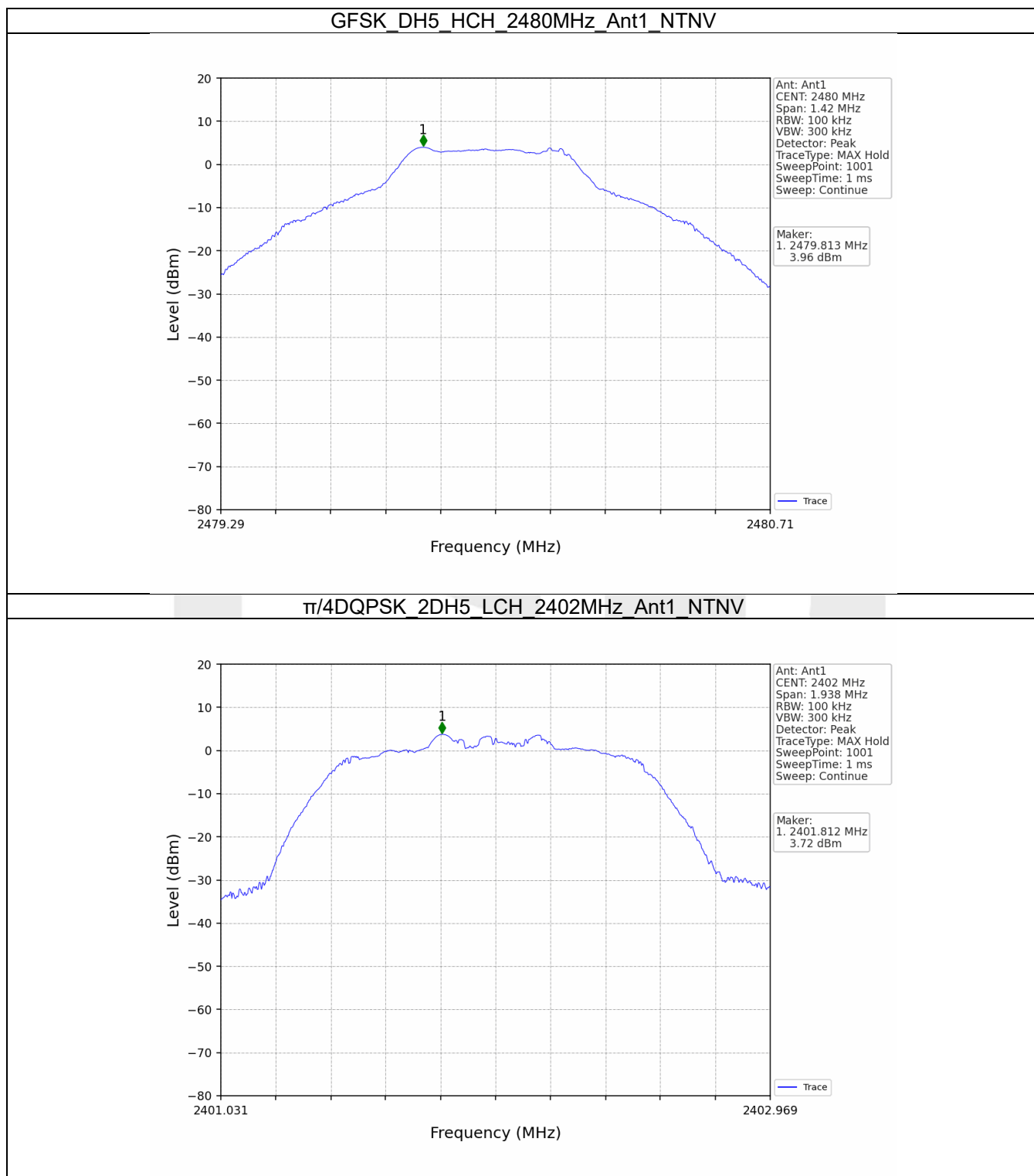
7.1 Ref

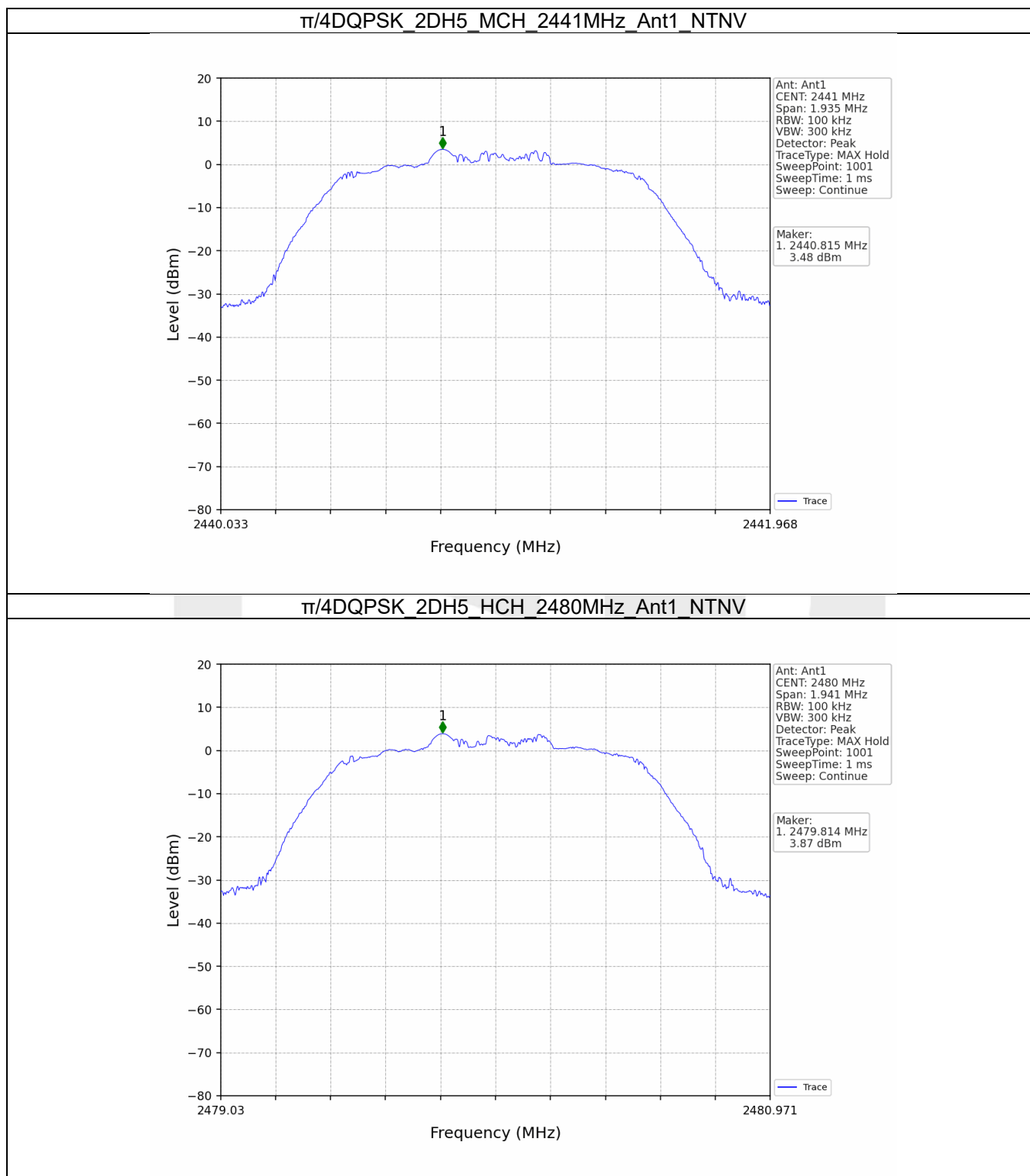
7.1.1 Test Result

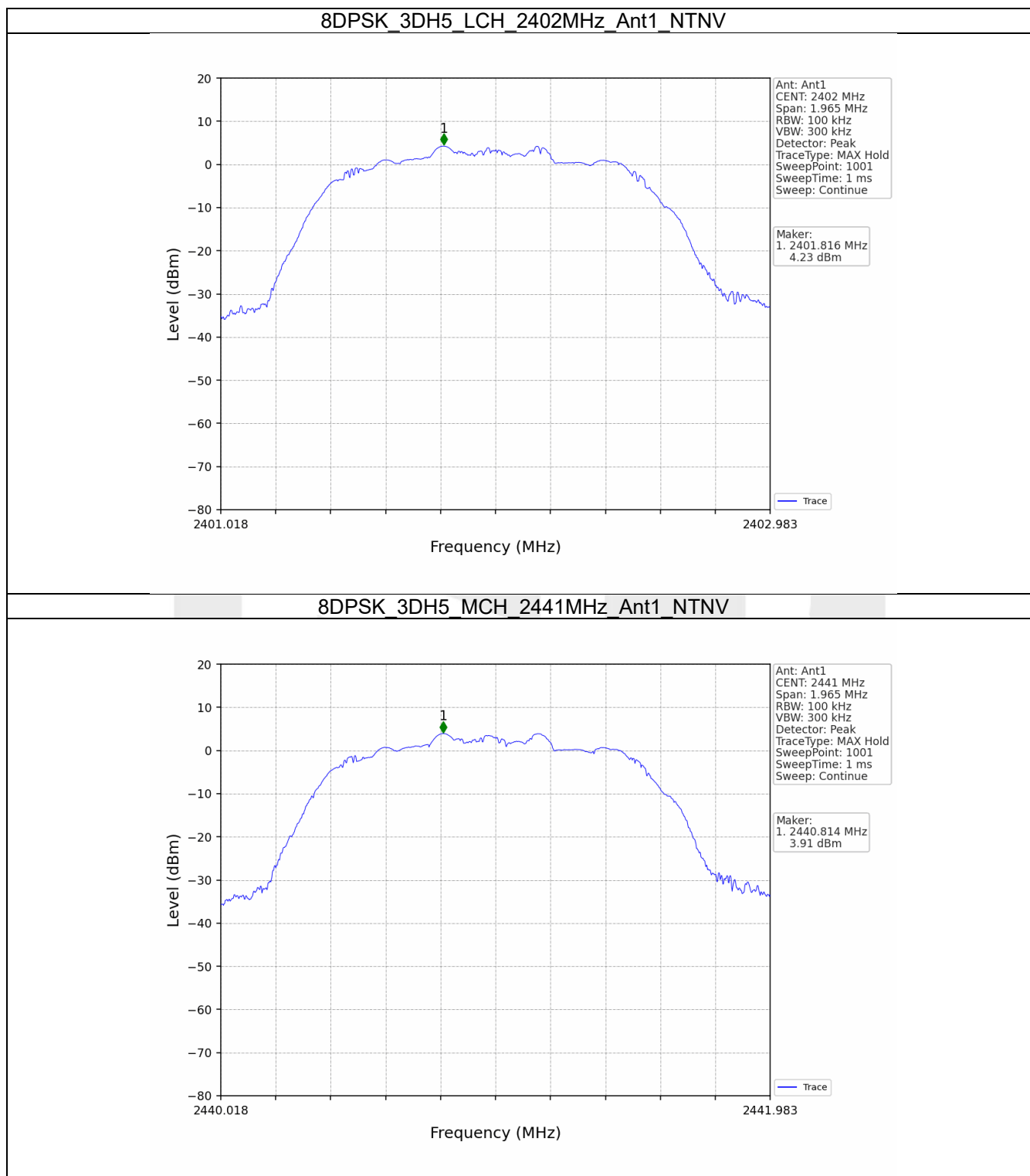
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.86
		2441	DH5	1	3.58
		2480	DH5	1	3.96
$\pi/4$ DQPSK	SISO	2402	2DH5	1	3.72
		2441	2DH5	1	3.48
		2480	2DH5	1	3.87
8DPSK	SISO	2402	3DH5	1	4.23
		2441	3DH5	1	3.91
		2480	3DH5	1	4.29
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.					

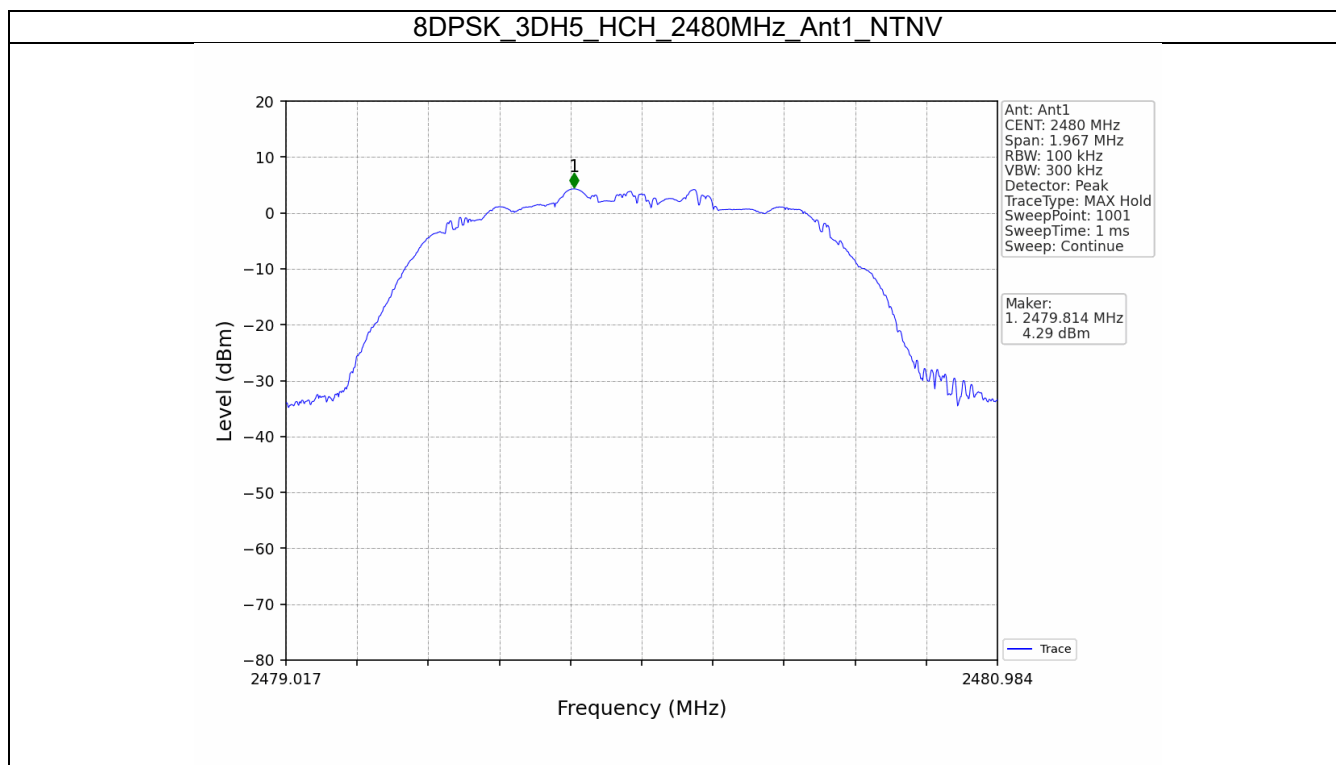
7.1.2 Test Graph











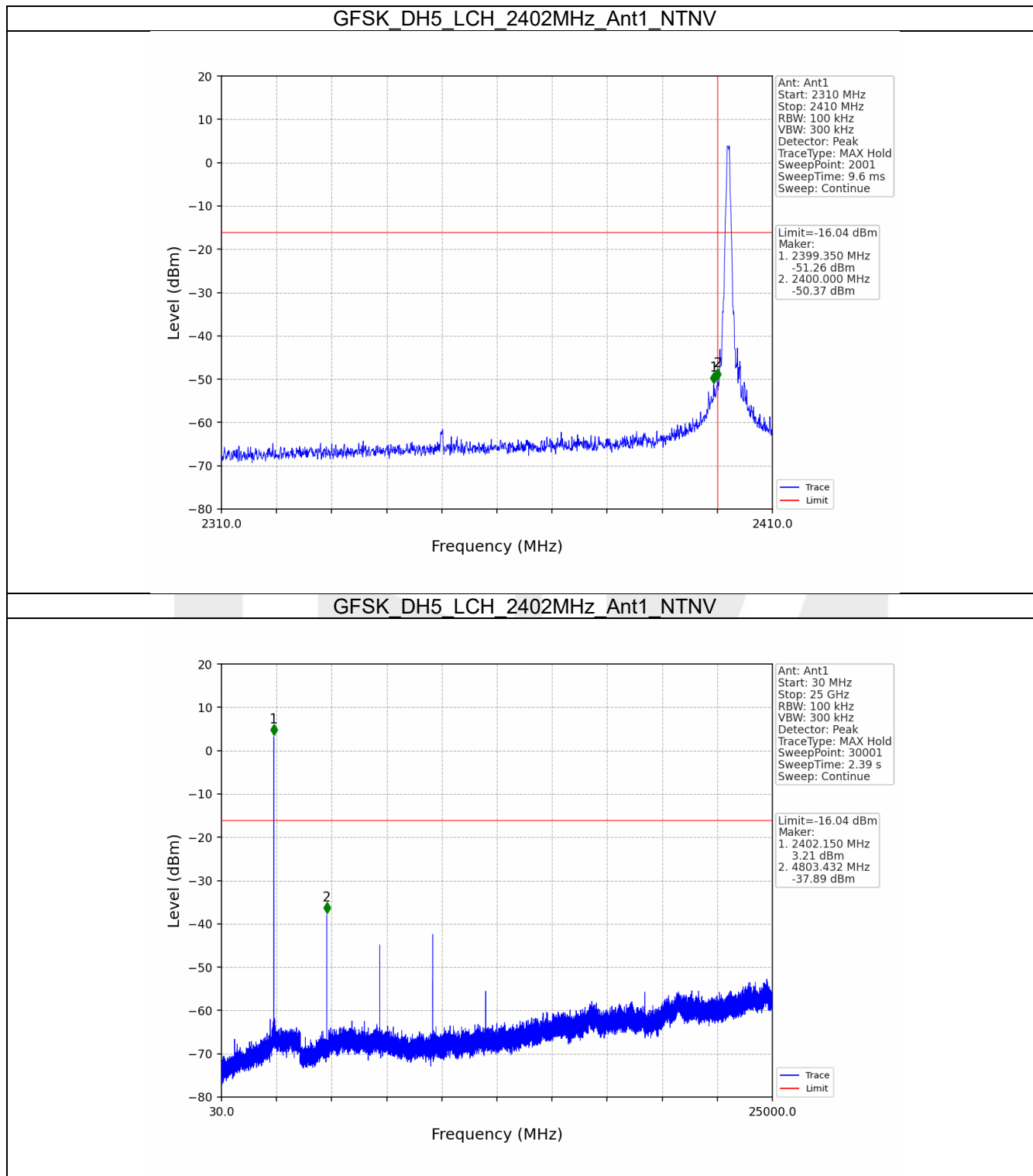
7.2 CSE

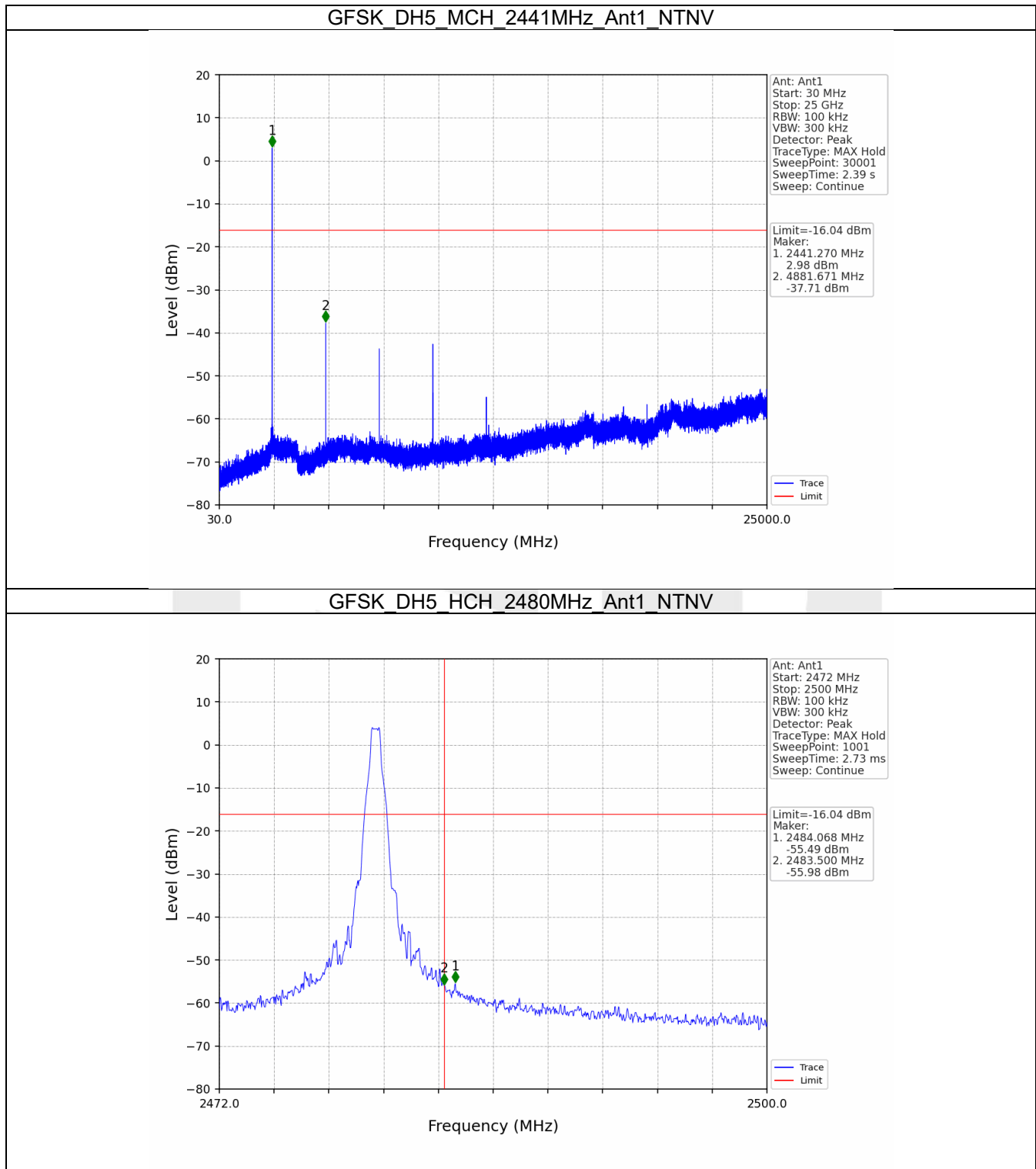
7.2.1 Test Result

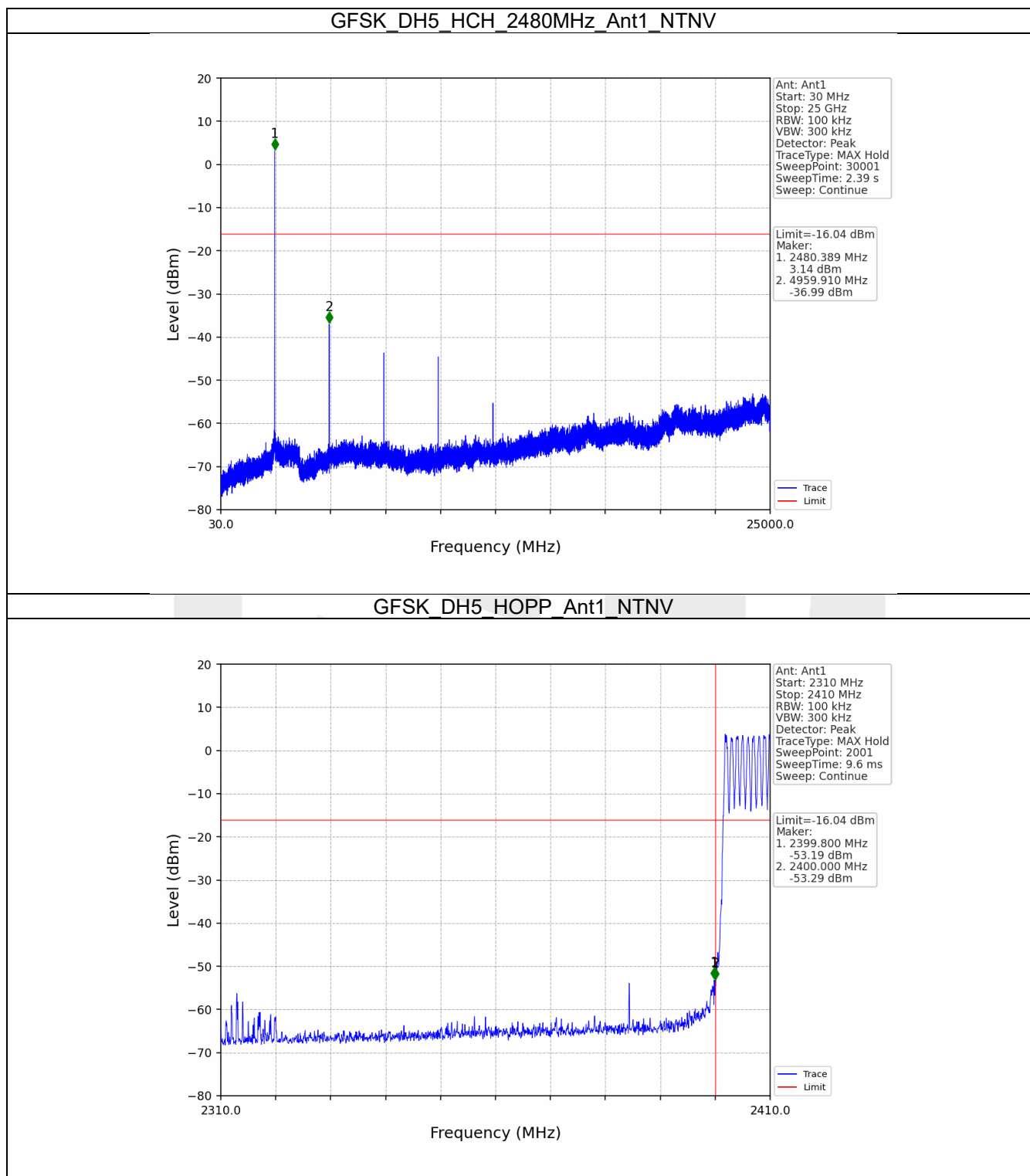
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.96	-16.04	Pass
		2441	DH5	1	3.96	-16.04	Pass
		2480	DH5	1	3.96	-16.04	Pass
		HOPP	DH5	1	3.96	-16.04	Pass
					3.96	-16.04	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	3.87	-16.13	Pass
		2441	2DH5	1	3.87	-16.13	Pass
		2480	2DH5	1	3.87	-16.13	Pass
		HOPP	2DH5	1	3.87	-16.13	Pass
					3.87	-16.13	Pass
8DPSK	SISO	2402	3DH5	1	4.29	-15.71	Pass
		2441	3DH5	1	4.29	-15.71	Pass
		2480	3DH5	1	4.29	-15.71	Pass
		HOPP	3DH5	1	4.29	-15.71	Pass
					4.29	-15.71	Pass

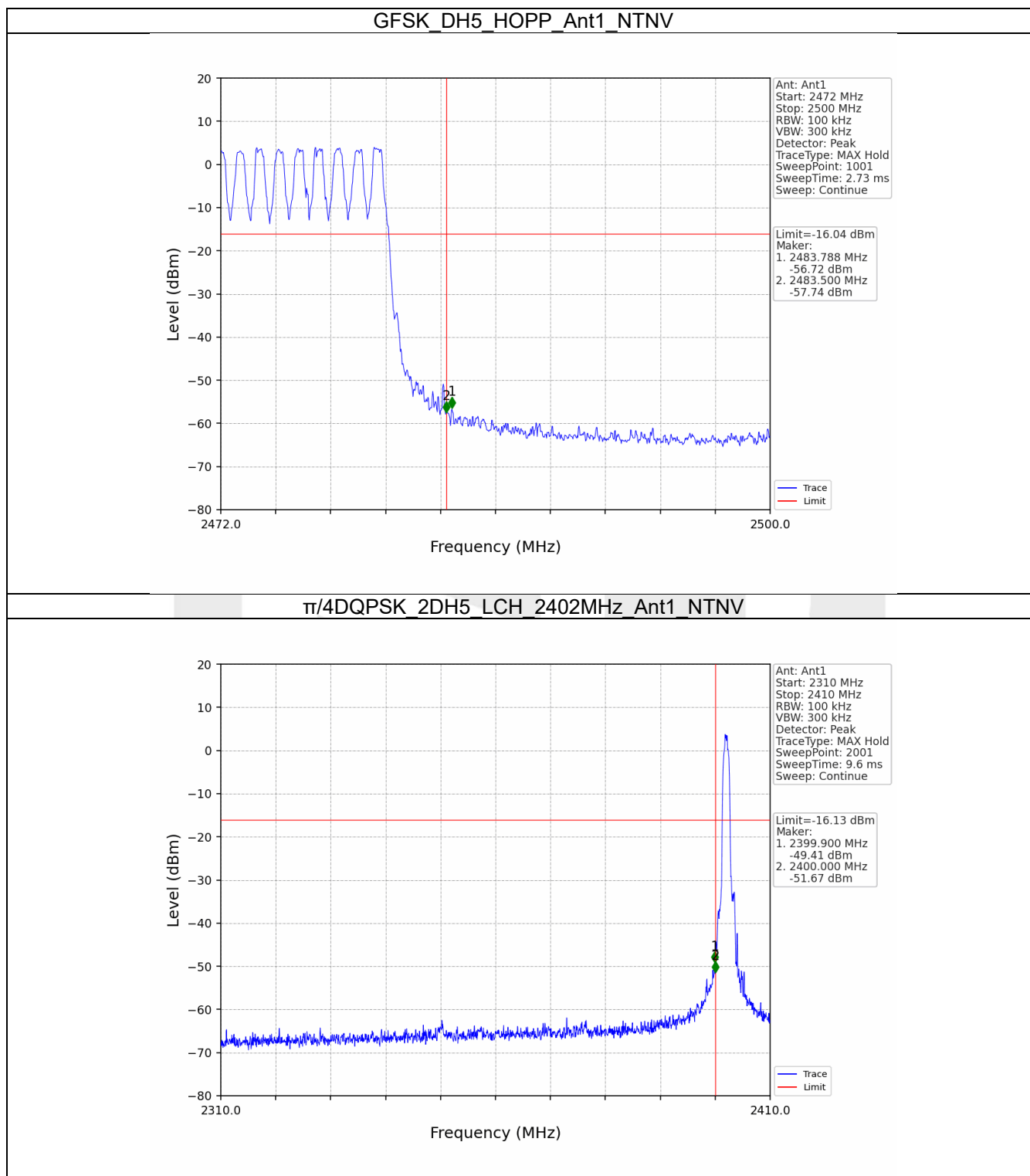
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

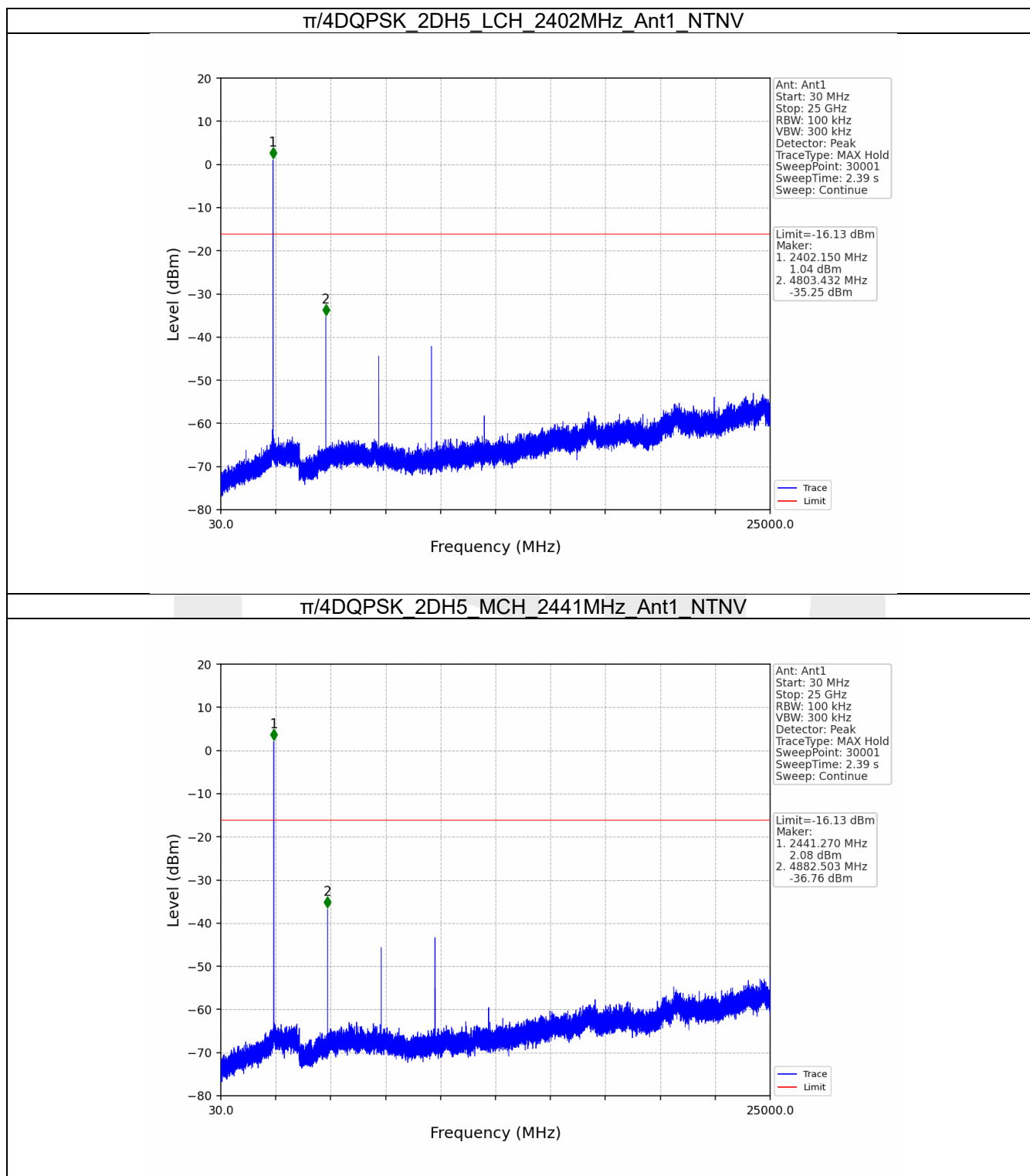
7.2.2 Test Graph

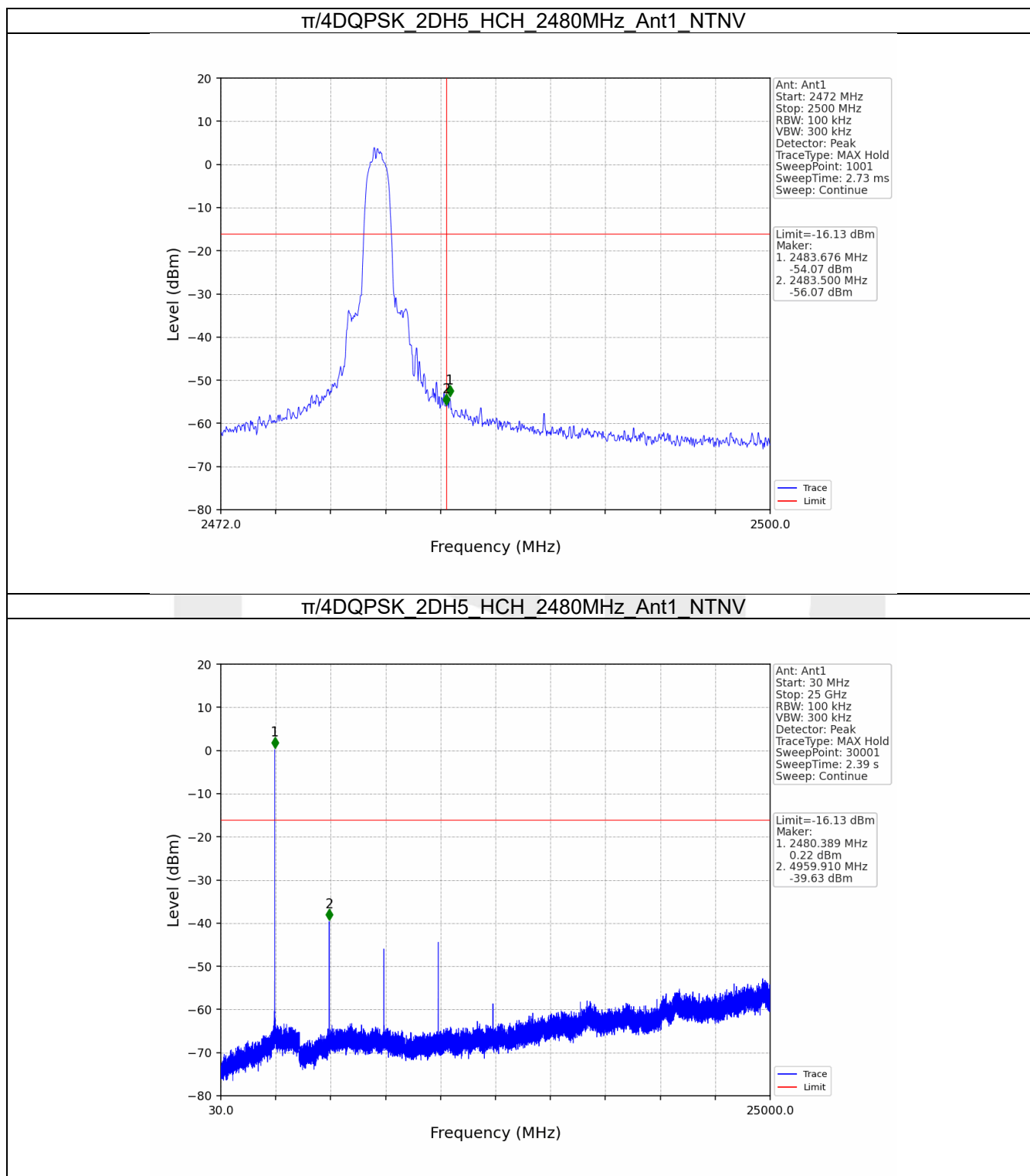


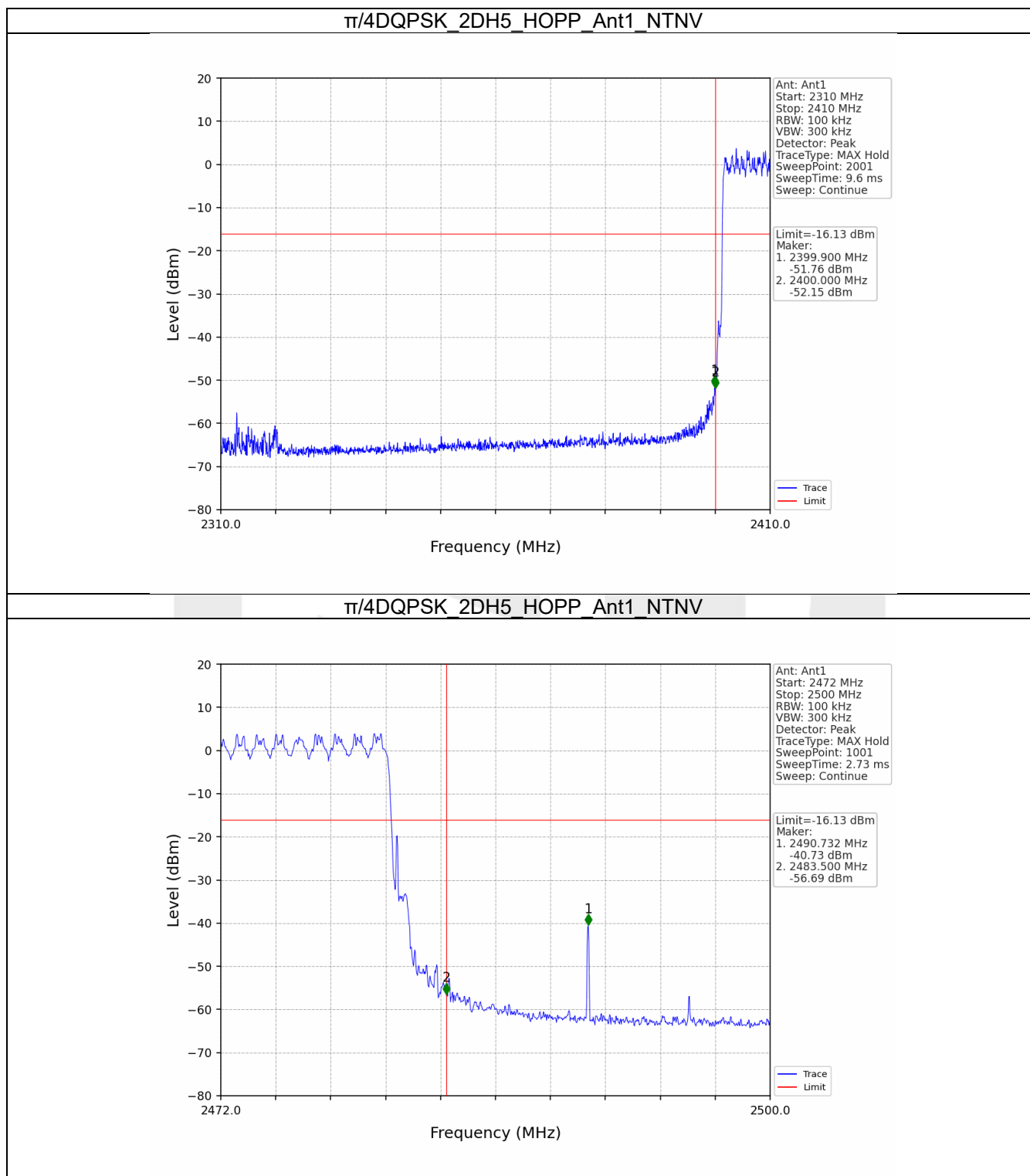


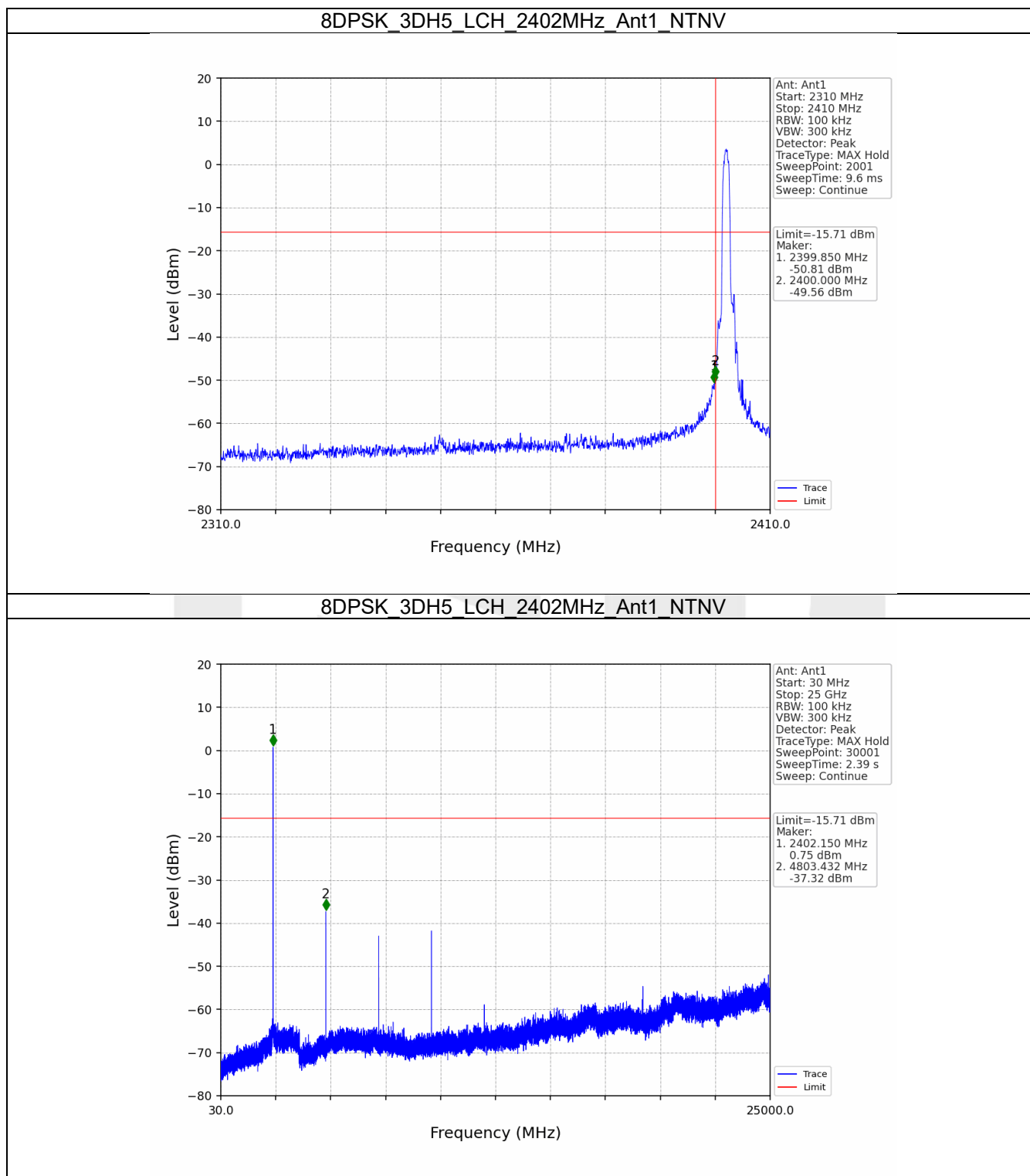


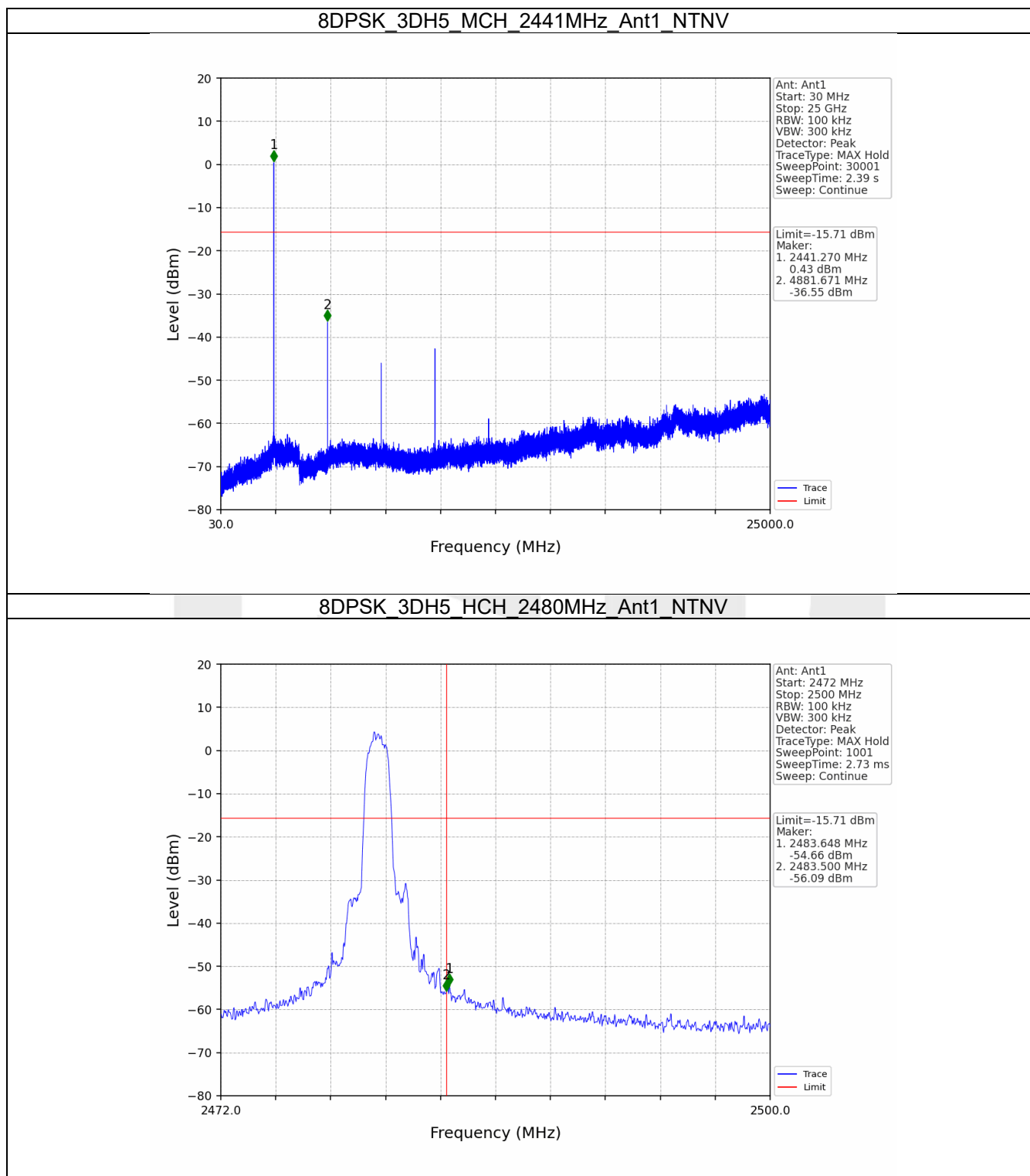


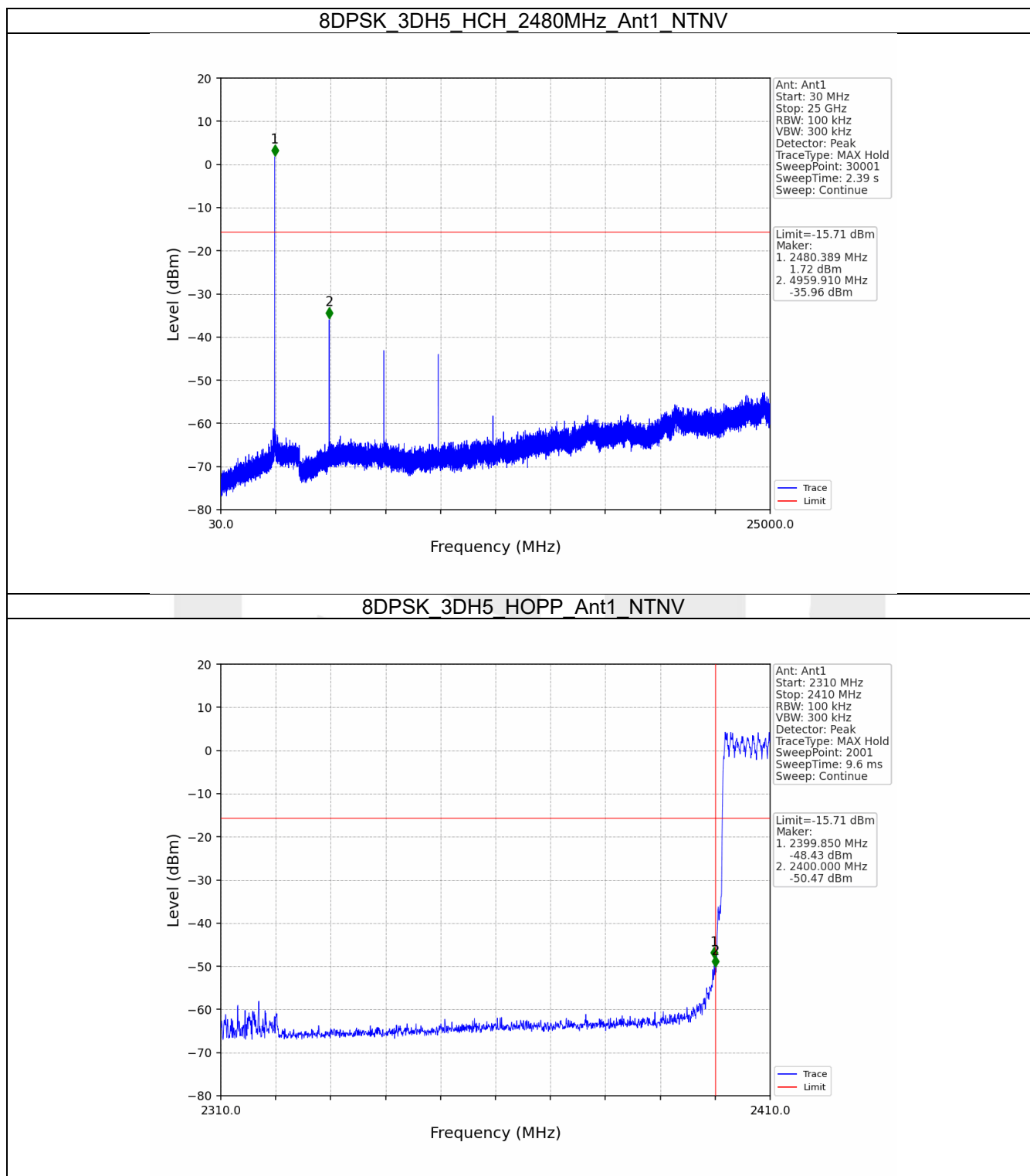


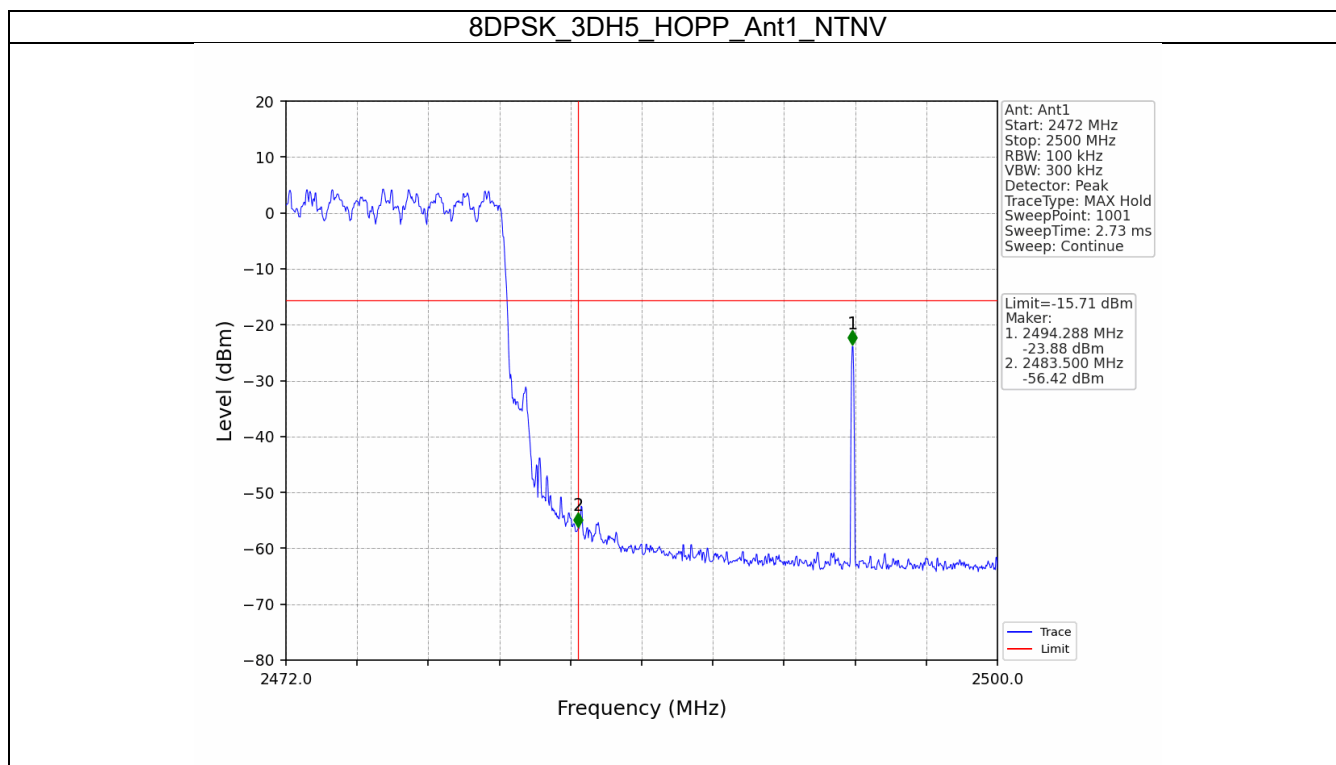












----- End of Report -----