

ANNEX D TEST DATA

For

Project No.:	8335EU012110W
Client:	Guangzhou Boju Information Technology Co., Ltd.
Product Name:	DC600 Charger
Model No.:	DC24600
FCC ID:	2BBH5-DC24600
Technology:	Bluetooth BDR&EDR
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2025-11-10

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. Duty Cycle

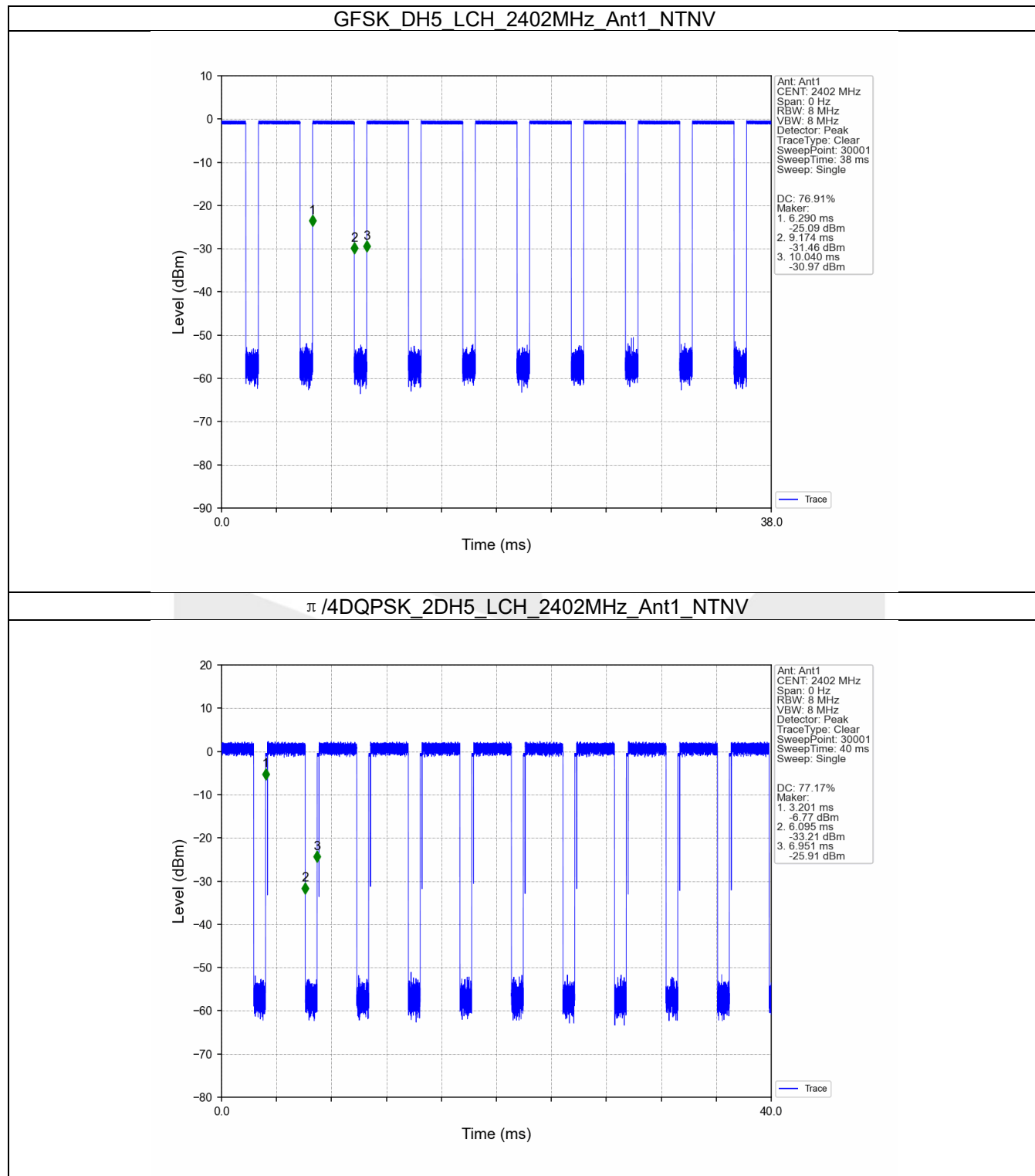
1.1 Test Result

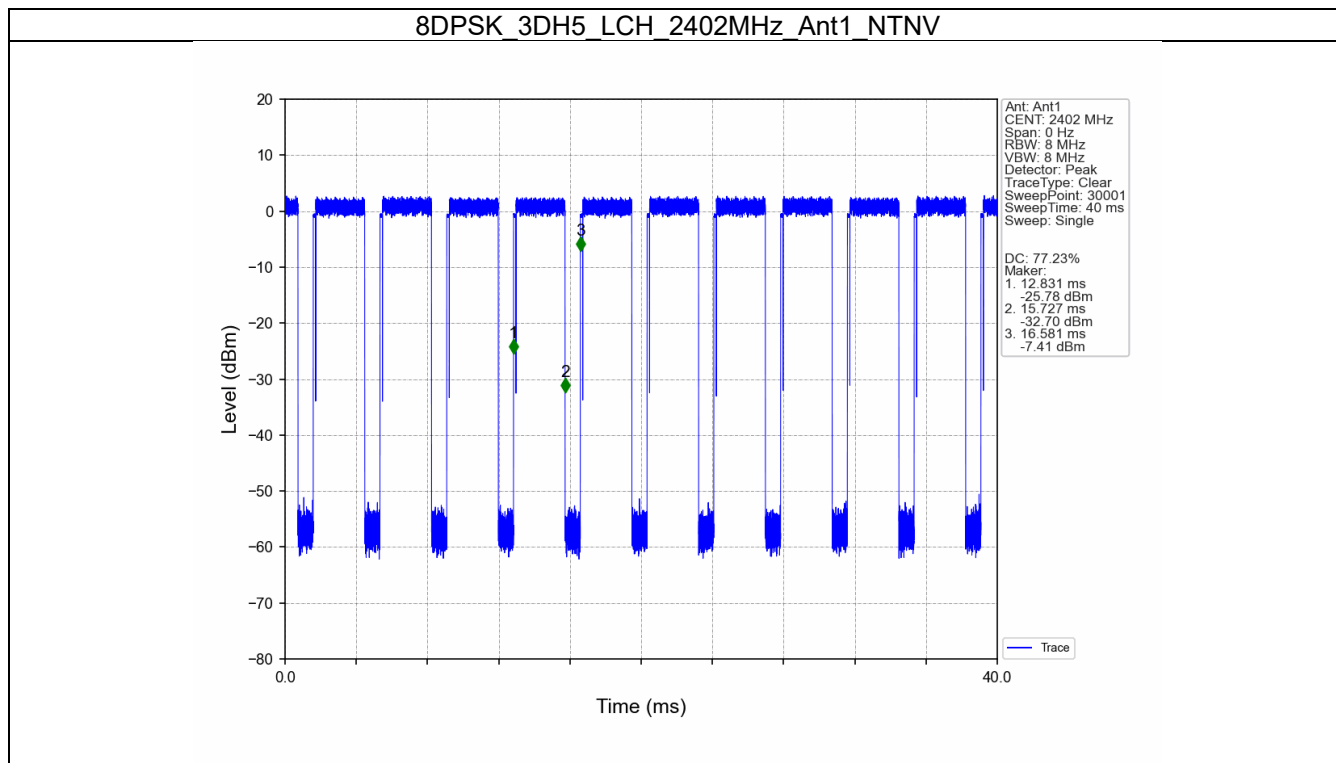
1.1.1 Ant1

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	2.884	3.750	76.91	1.14	0.01
$\pi/4$ DQPSK	SISO	2402	2DH5	2.894	3.750	77.17	1.13	0.04
8DPSK	SISO	2402	3DH5	2.896	3.750	77.23	1.12	0.04

1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

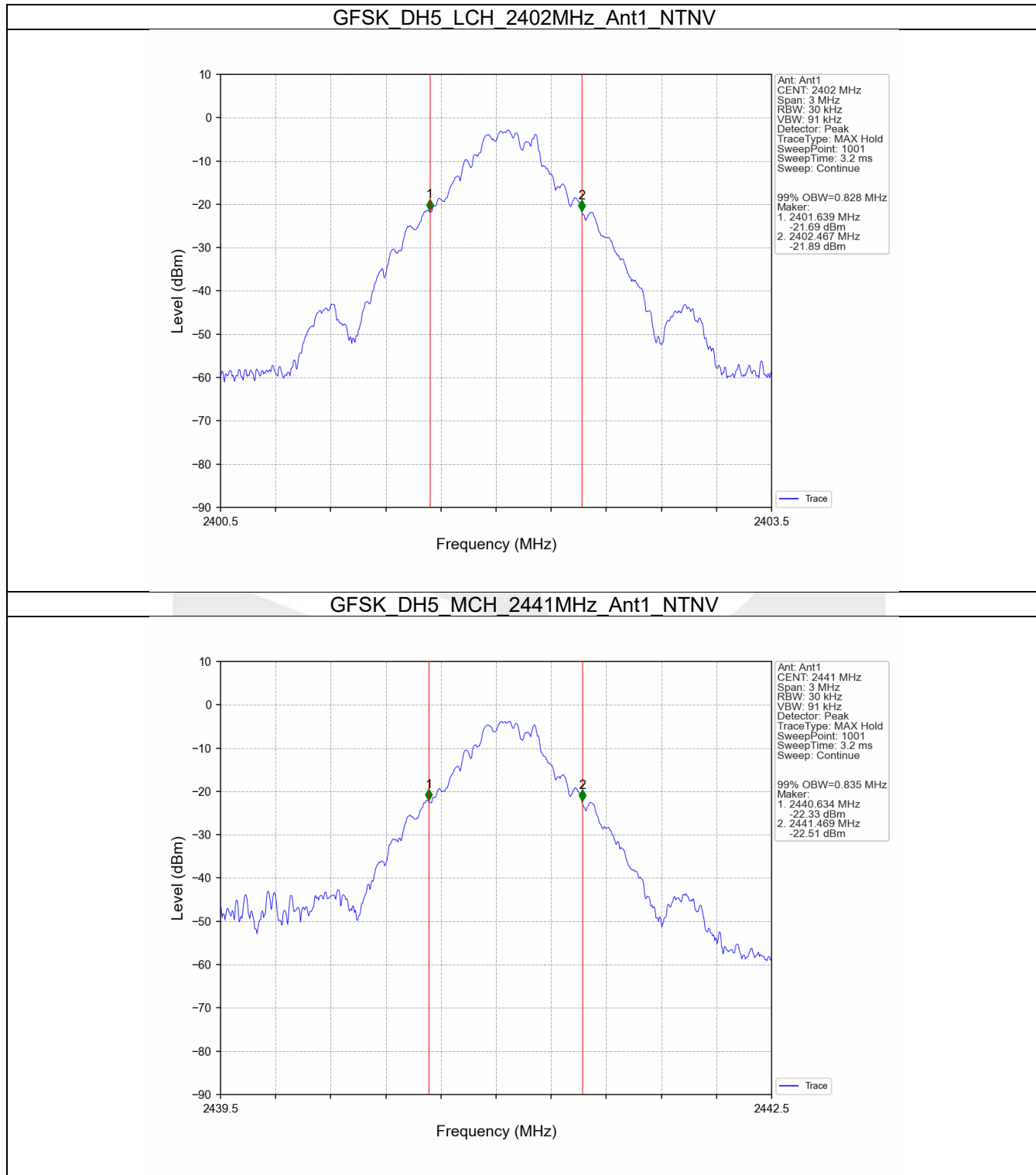
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.828	/	Pass
		2441	DH5	1	0.835	/	Pass
		2480	DH5	1	0.834	/	Pass
π /4DQPSK	SISO	2402	2DH5	1	1.178	/	Pass
		2441	2DH5	1	1.178	/	Pass
		2480	2DH5	1	1.177	/	Pass
8DPSK	SISO	2402	3DH5	1	1.181	/	Pass
		2441	3DH5	1	1.183	/	Pass
		2480	3DH5	1	1.184	/	Pass

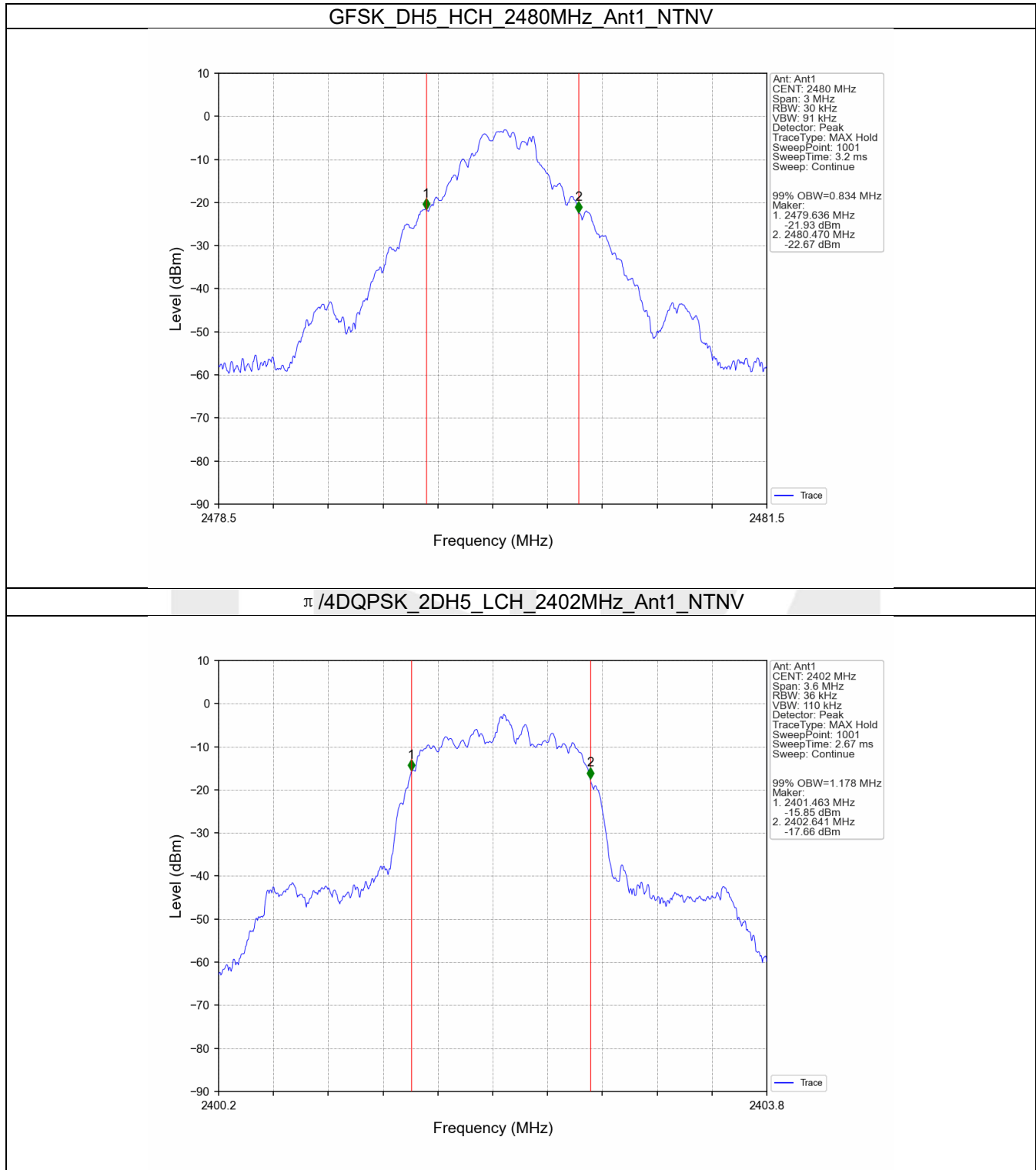
2.1.2 20dB BW

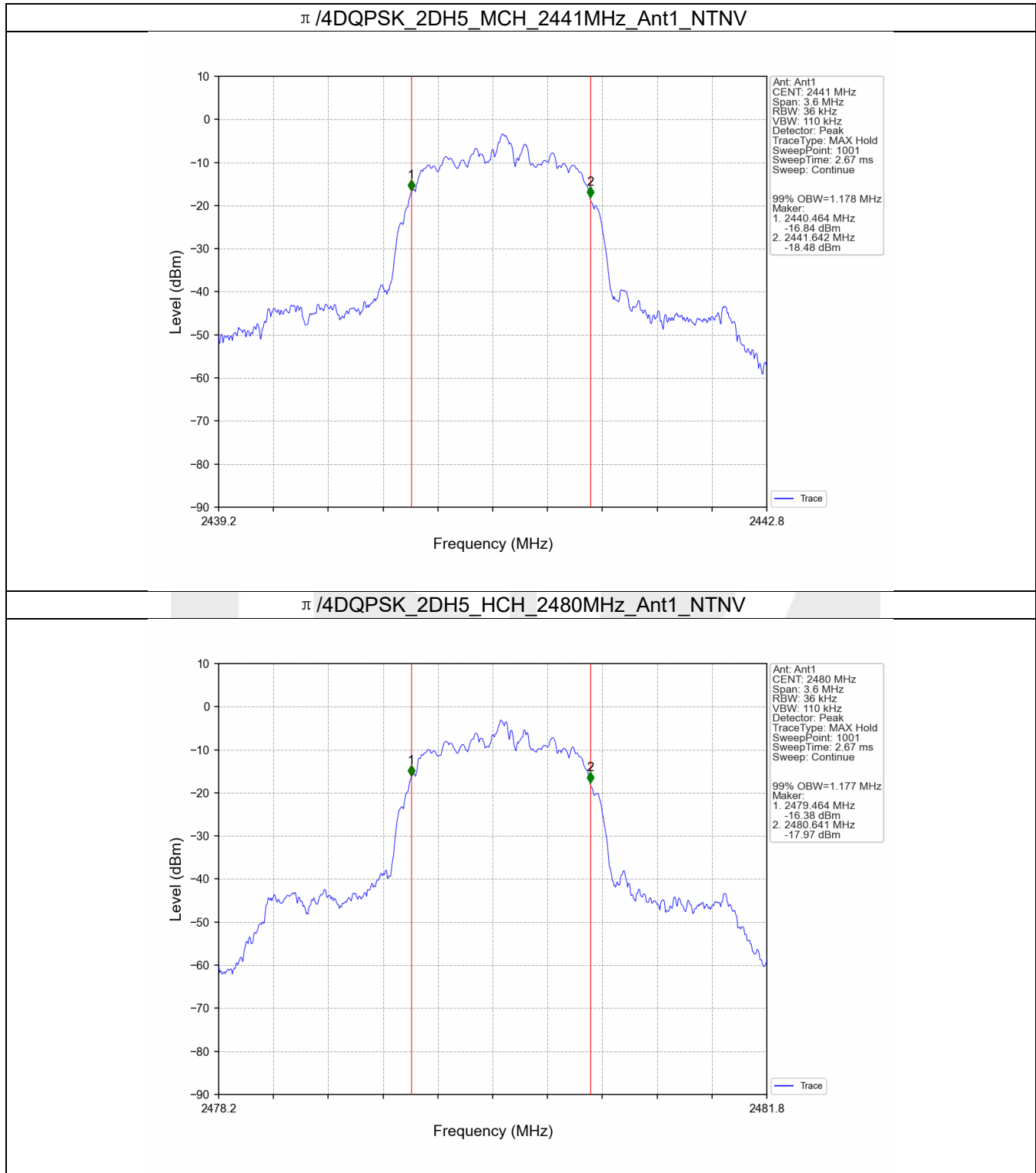
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.936	/	Pass
		2441	DH5	1	0.938	/	Pass
		2480	DH5	1	0.939	/	Pass
π /4DQPSK	SISO	2402	2DH5	1	1.295	/	Pass
		2441	2DH5	1	1.294	/	Pass
		2480	2DH5	1	1.294	/	Pass
8DPSK	SISO	2402	3DH5	1	1.304	/	Pass
		2441	3DH5	1	1.305	/	Pass
		2480	3DH5	1	1.307	/	Pass

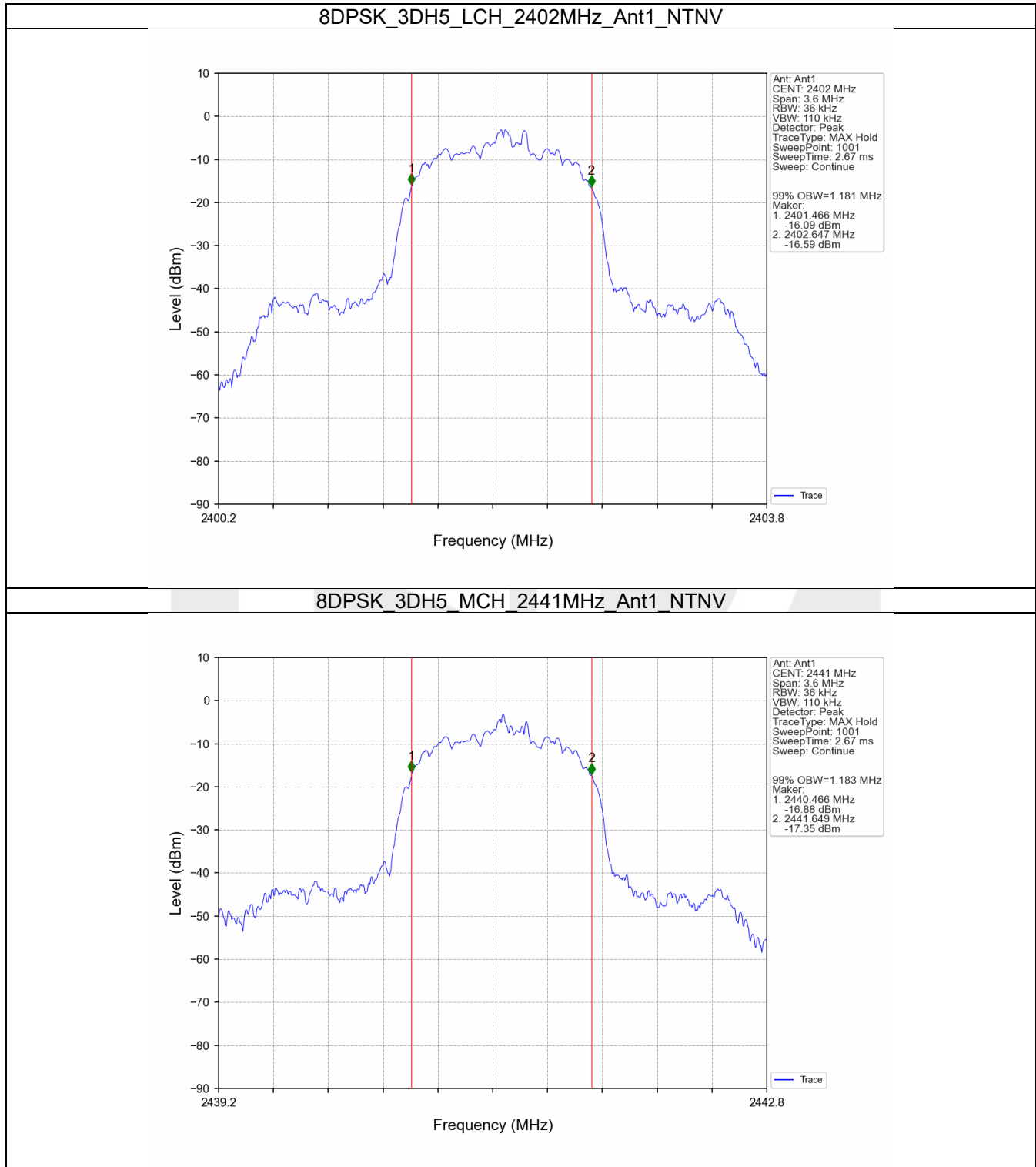
2.2 Test Graph

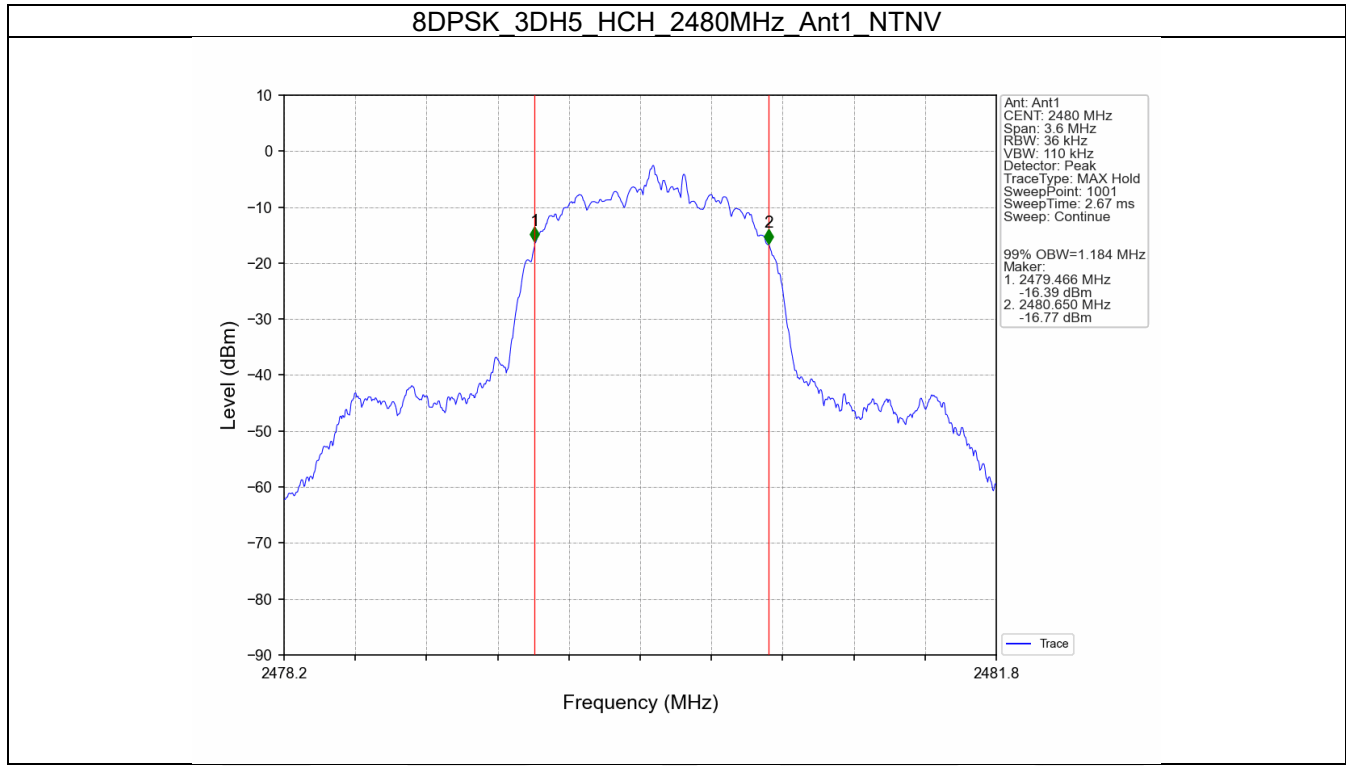
2.2.1 OBW



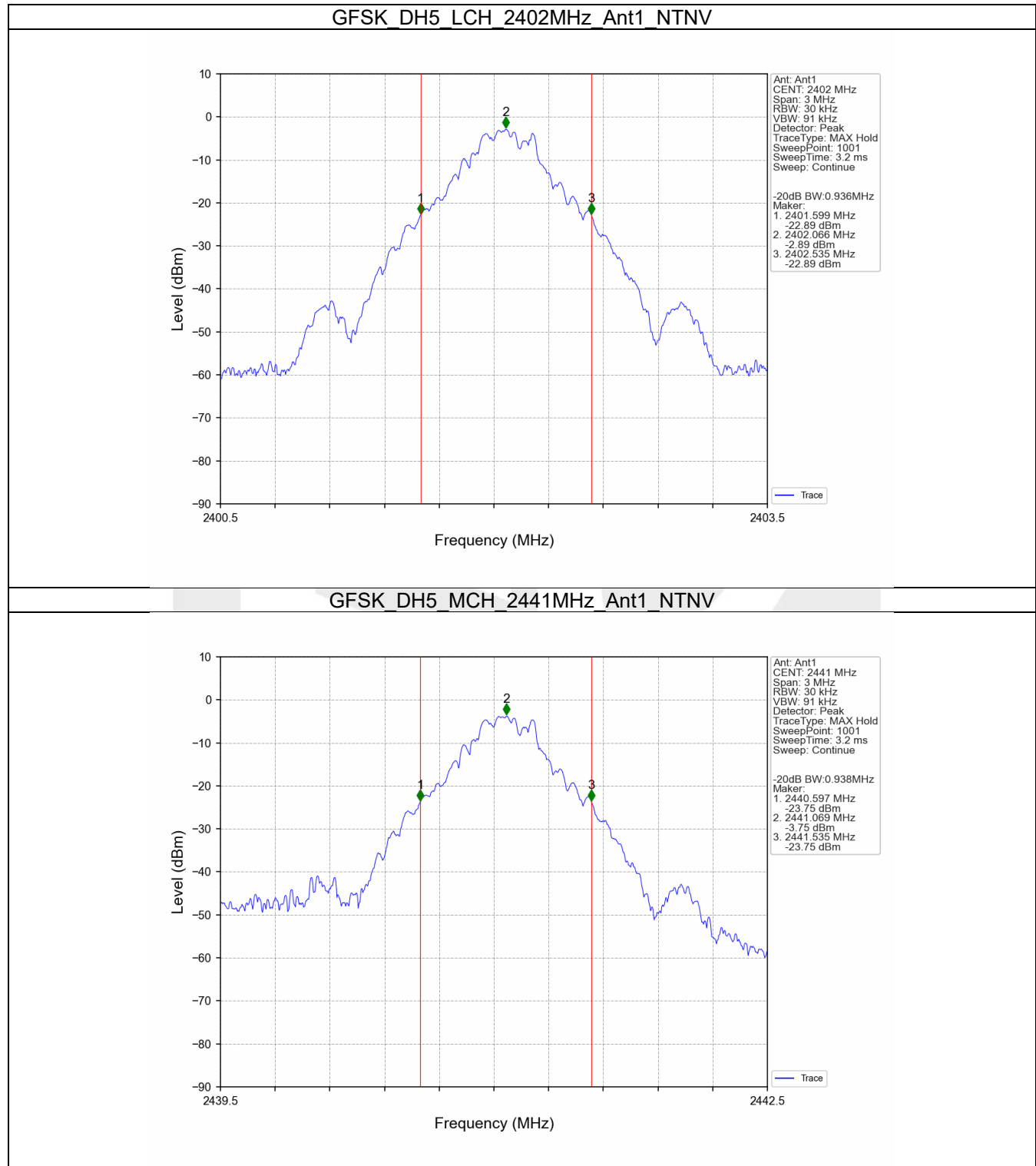


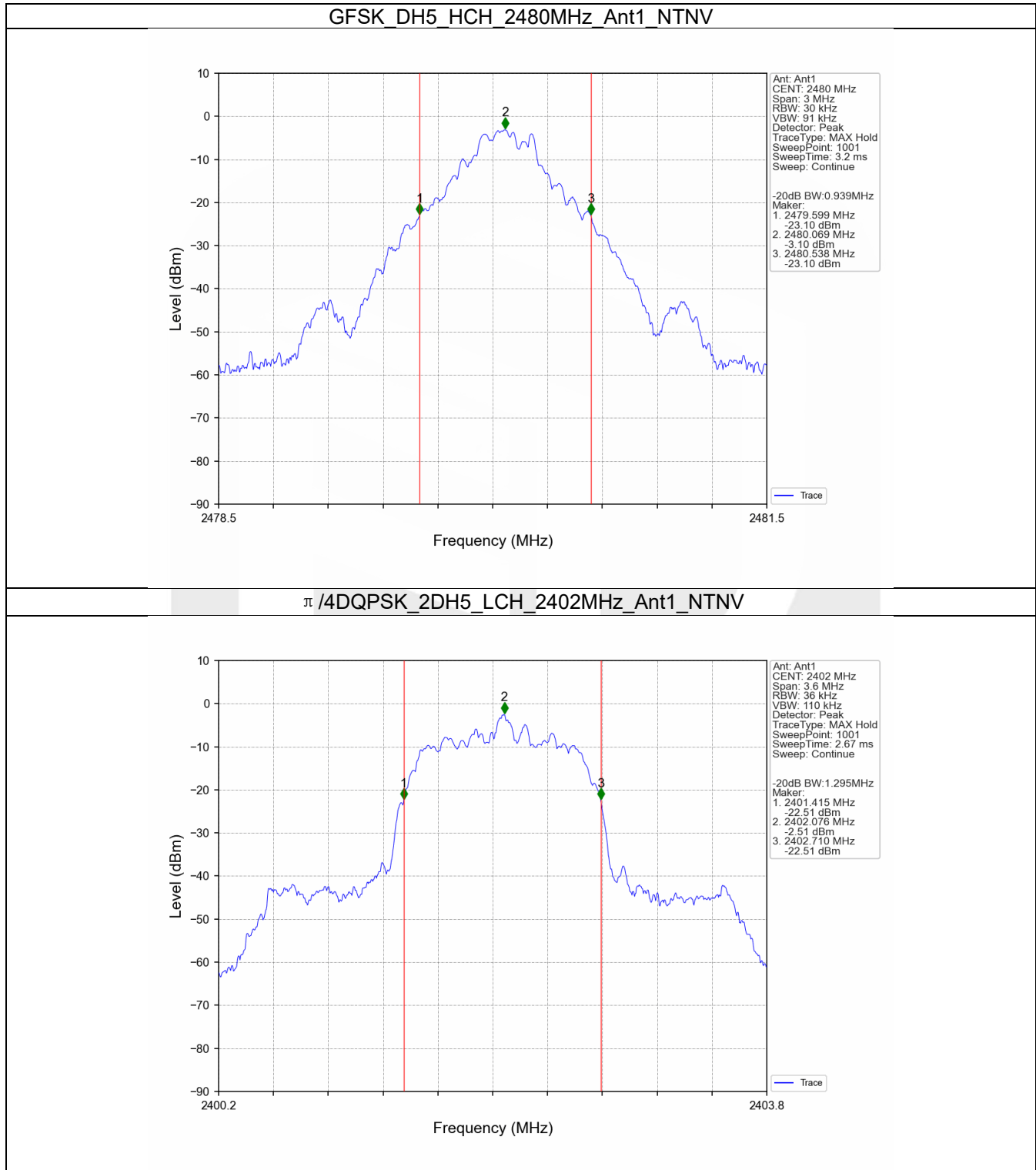


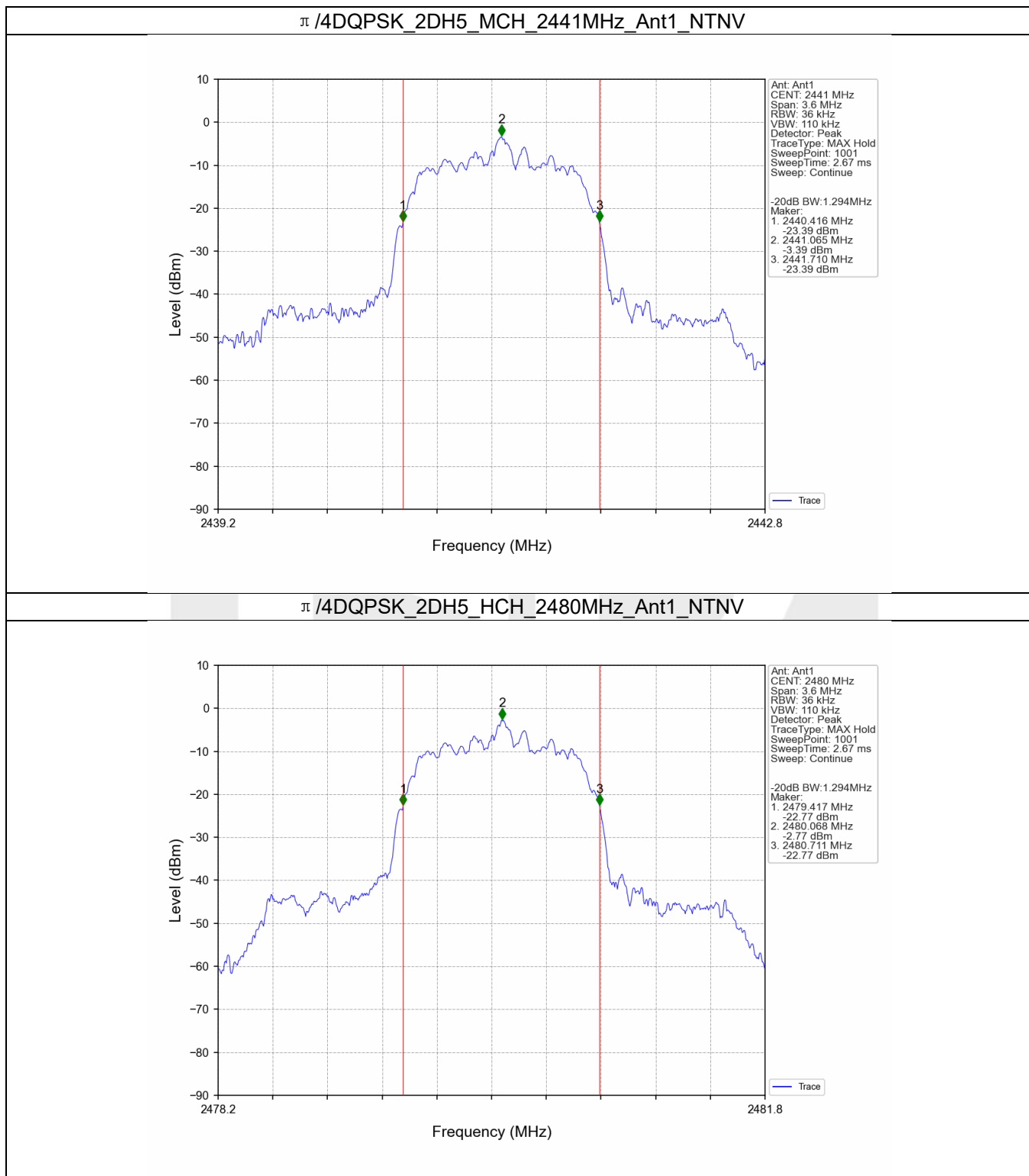


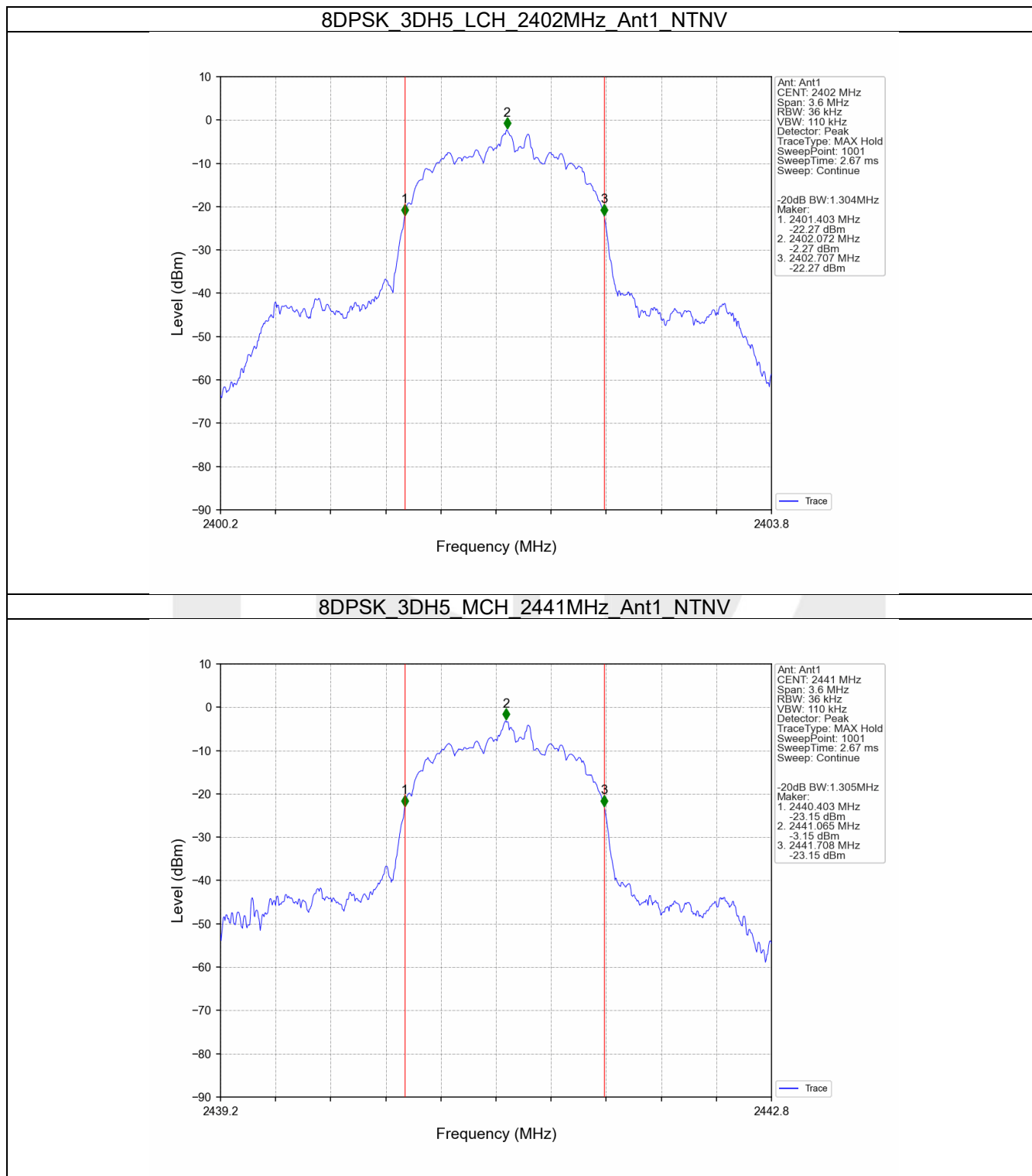


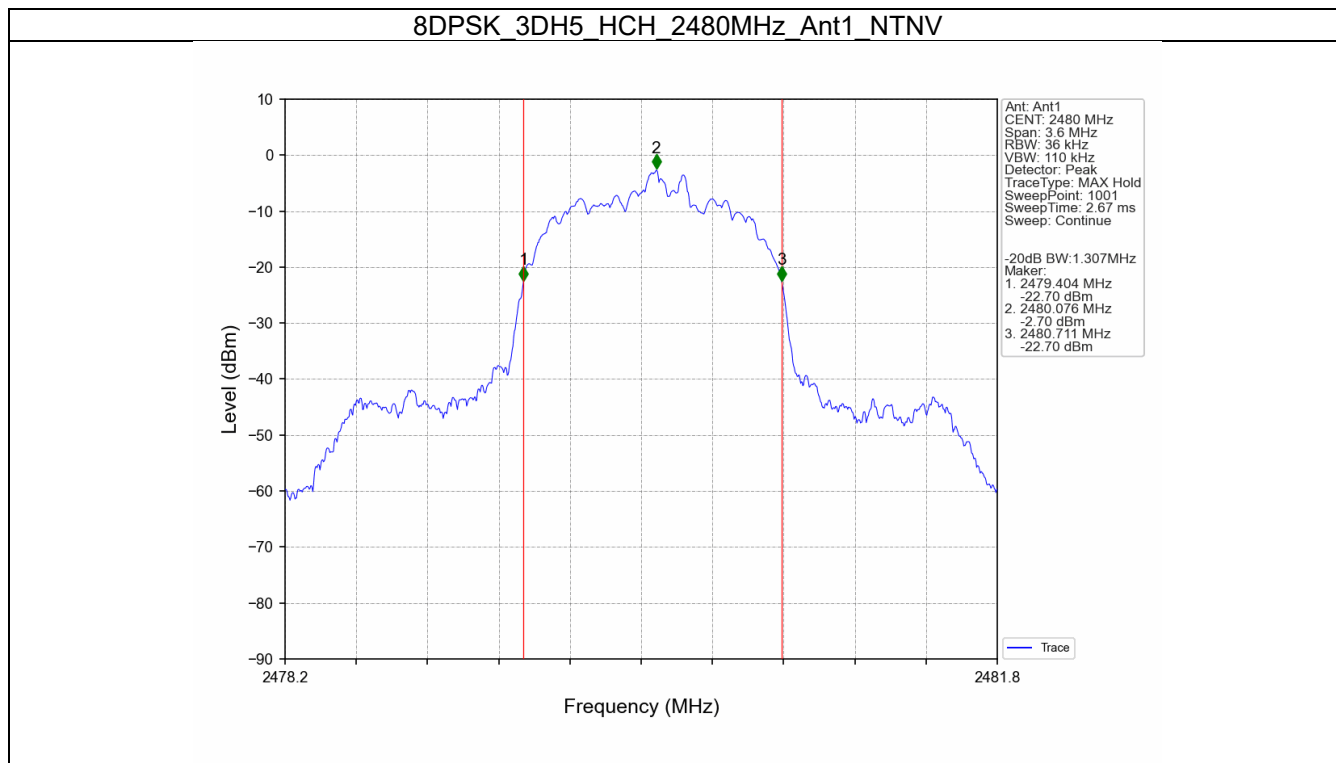
2.2.2 20dB BW











3. Maximum Conducted Output Power

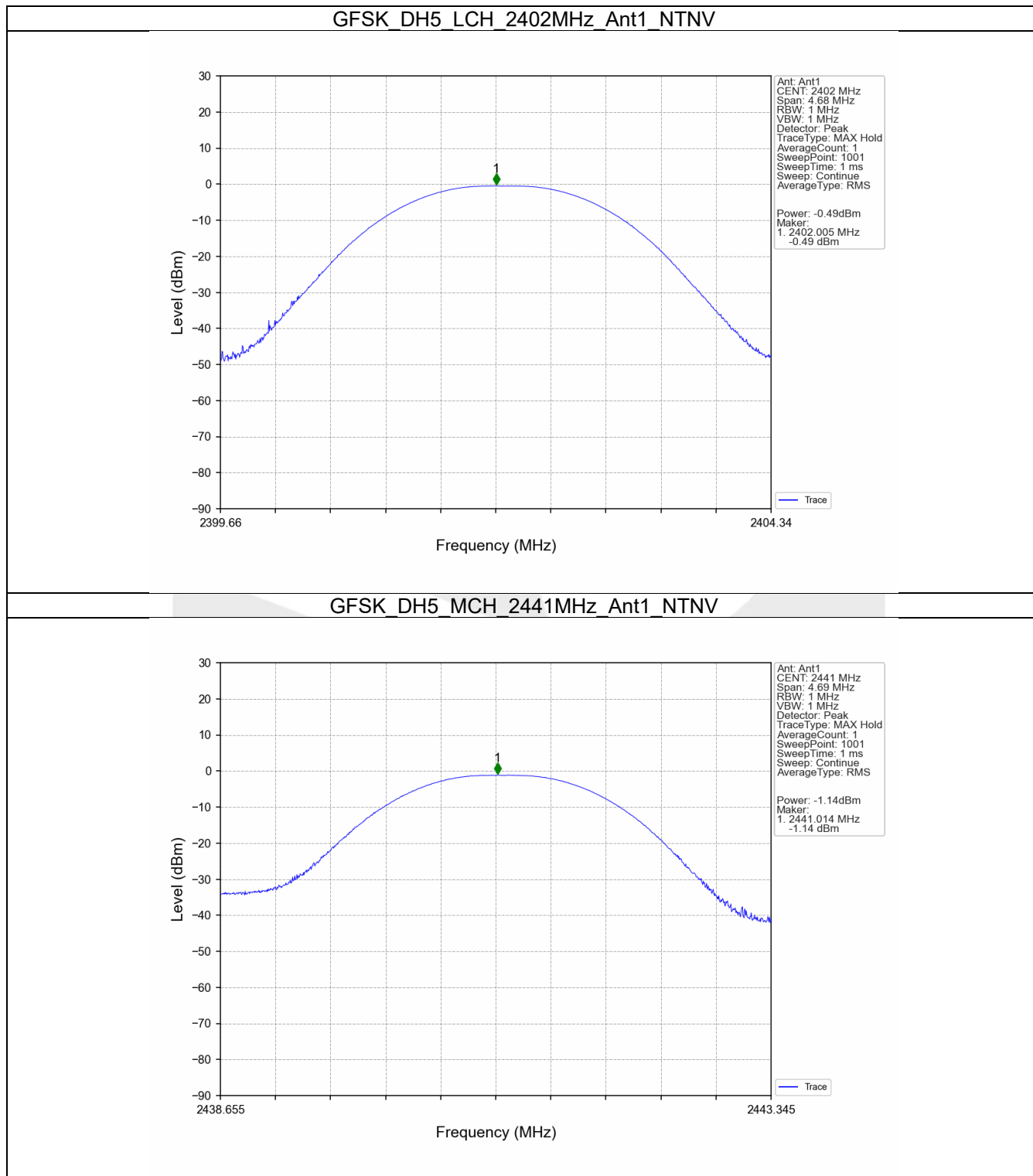
3.1 Test Result

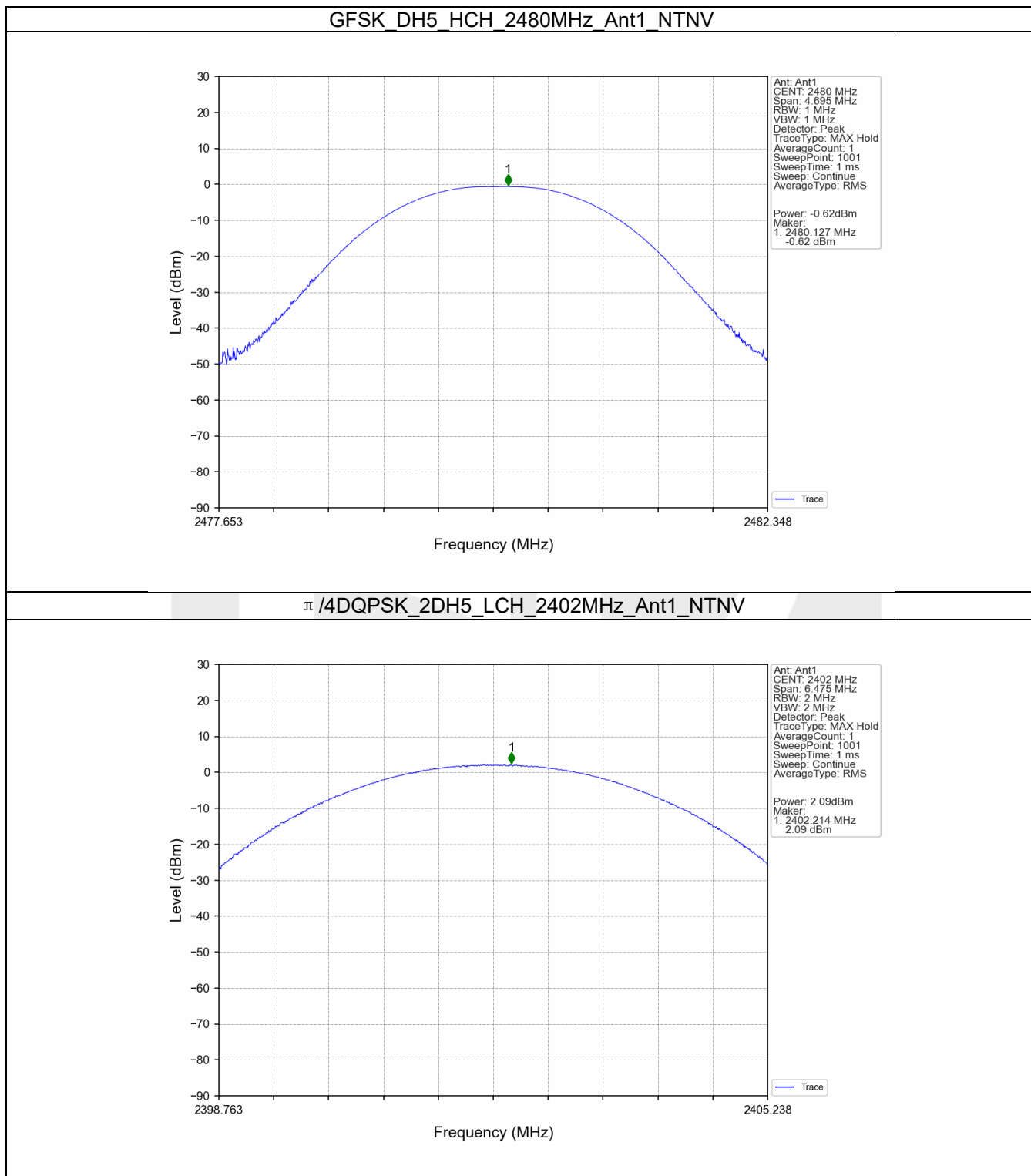
3.1.1 Power

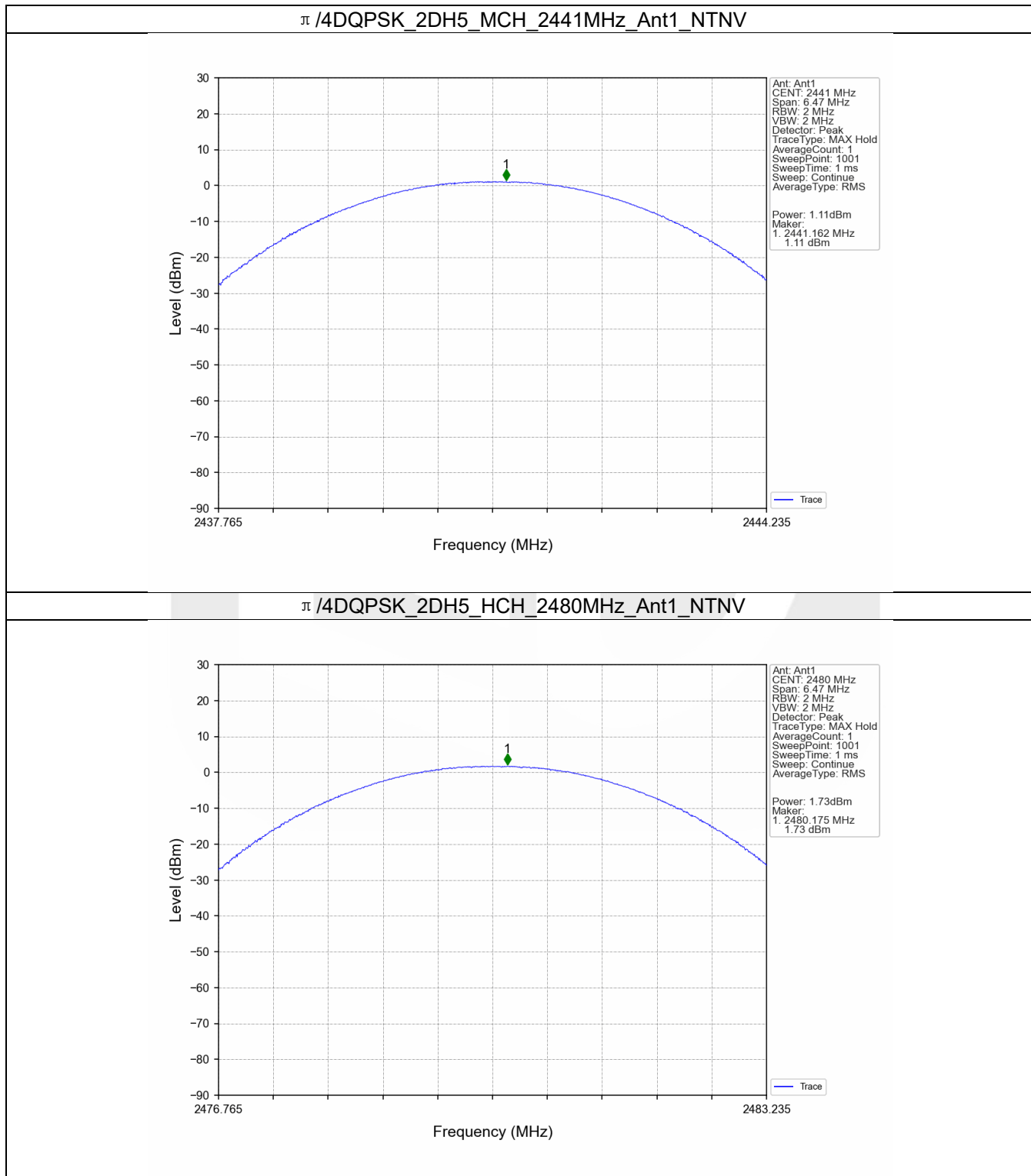
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-0.49	≤ 30	Pass
		2441	DH5	-1.14	≤ 30	Pass
		2480	DH5	-0.62	≤ 30	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	2.09	≤ 20.97	Pass
		2441	2DH5	1.11	≤ 20.97	Pass
		2480	2DH5	1.73	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	2.53	≤ 20.97	Pass
		2441	3DH5	1.64	≤ 20.97	Pass
		2480	3DH5	2.28	≤ 20.97	Pass

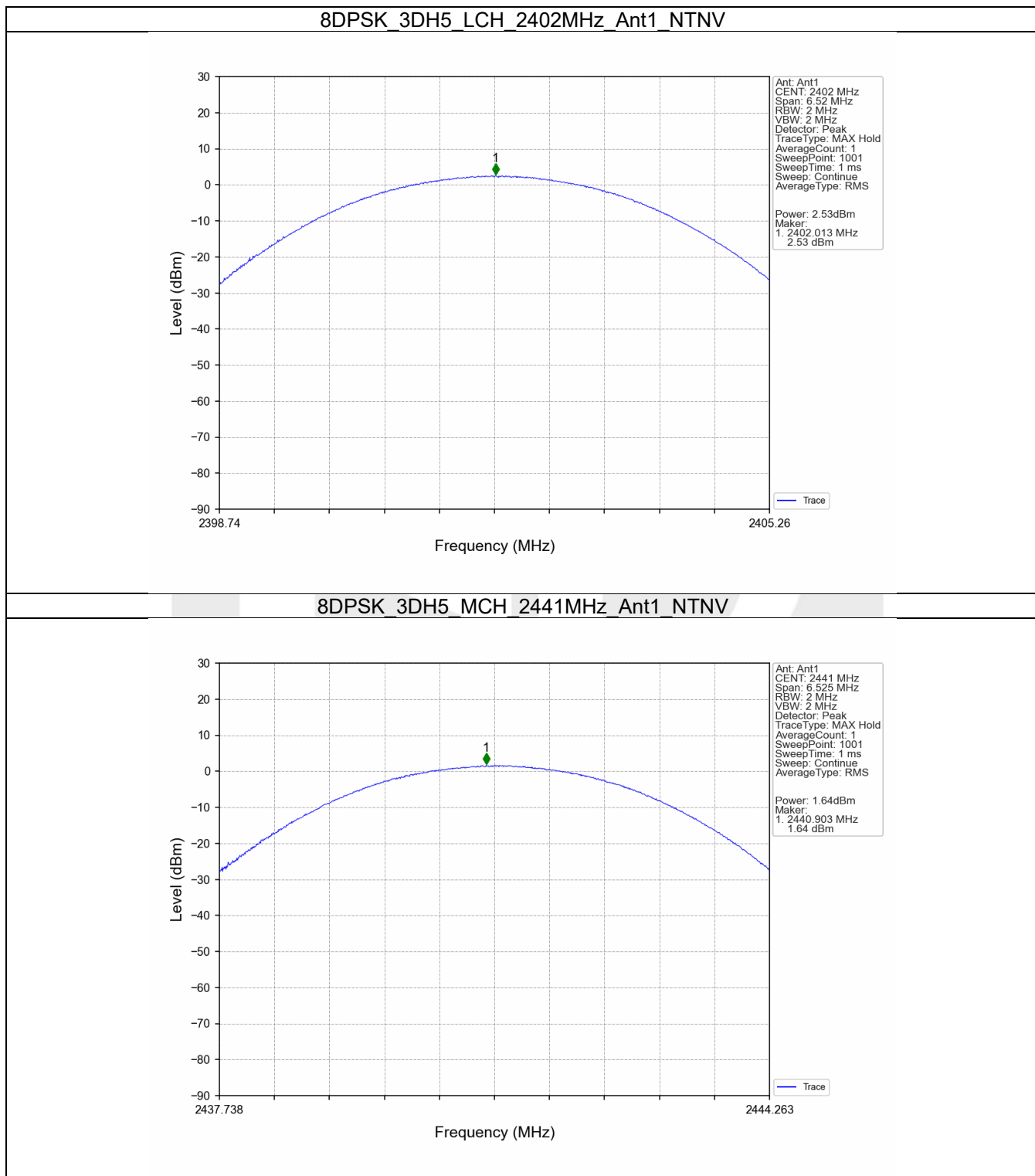
3.2 Test Graph

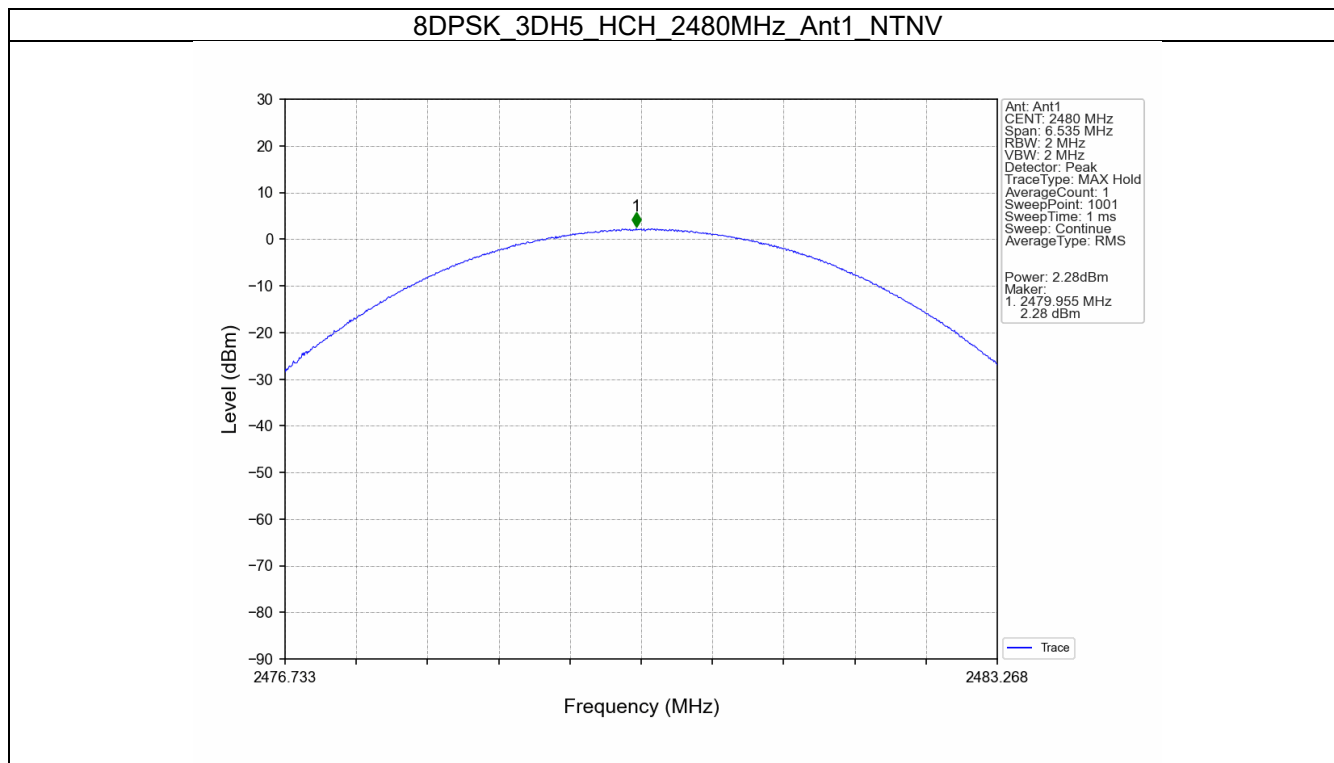
3.2.1 Power











4. Carrier Frequency Separation

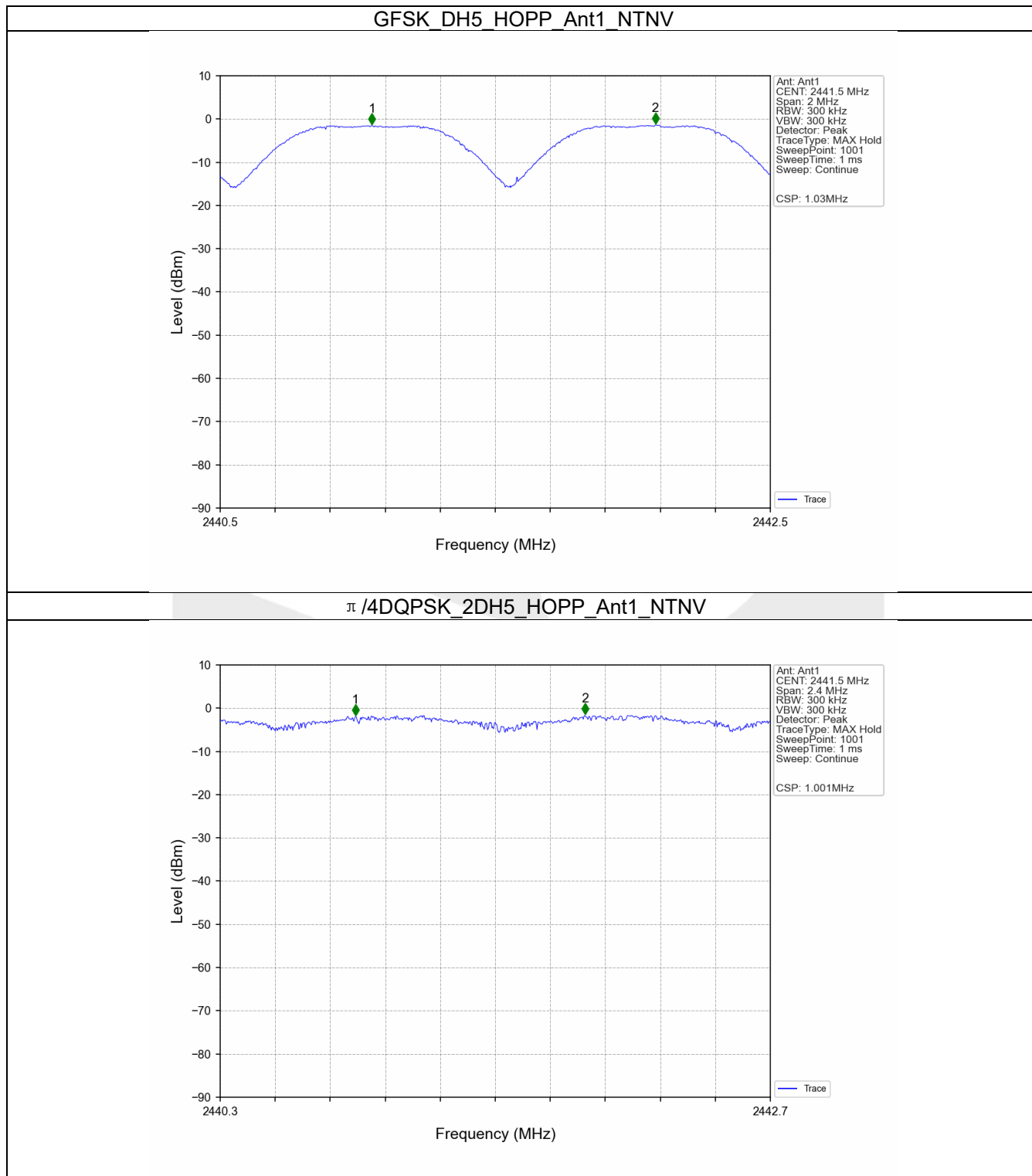
4.1 Test Result

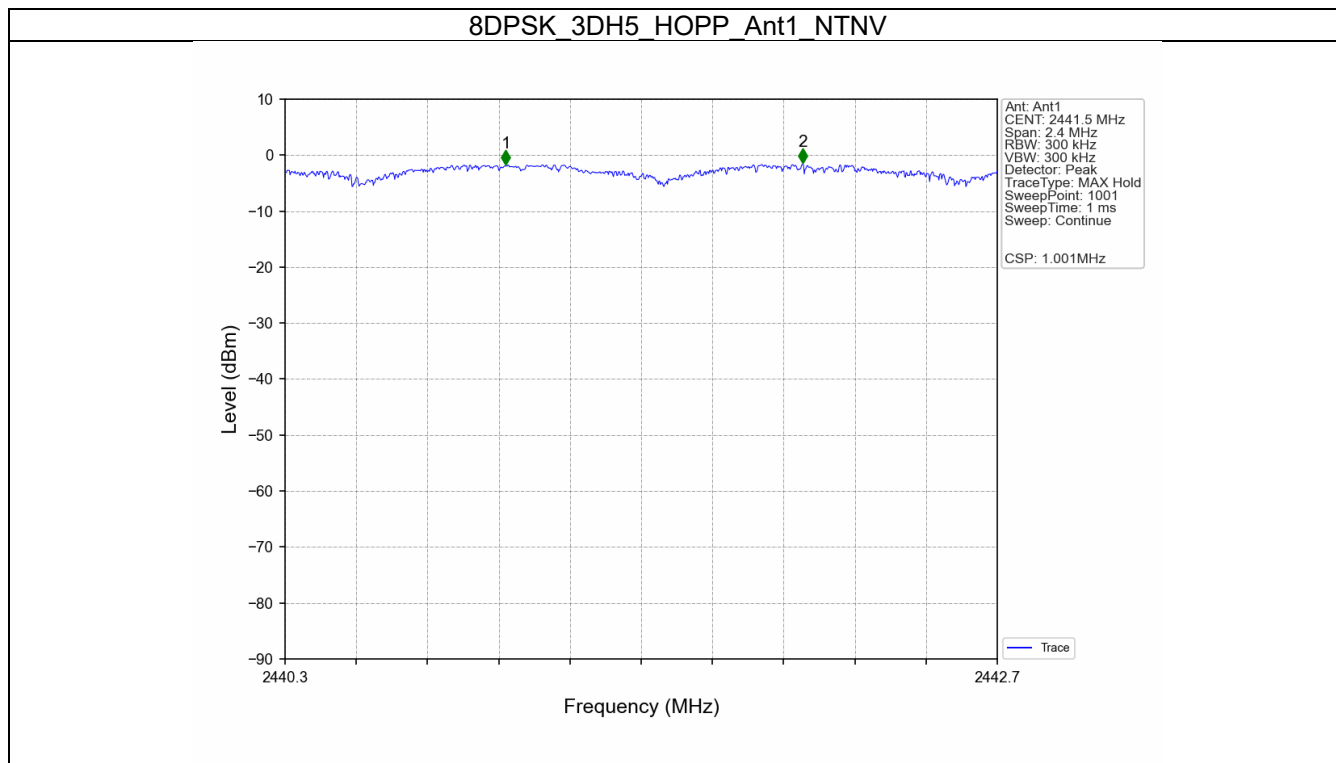
4.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.030	0.939	≥ 0.939	Pass
$\pi/4$ QPSK	SISO	HOPP	2DH5	1.001	1.295	≥ 0.863	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.307	≥ 0.871	Pass

4.2 Test Graph

4.2.1 Ant1





5. Number of Hopping Frequencies

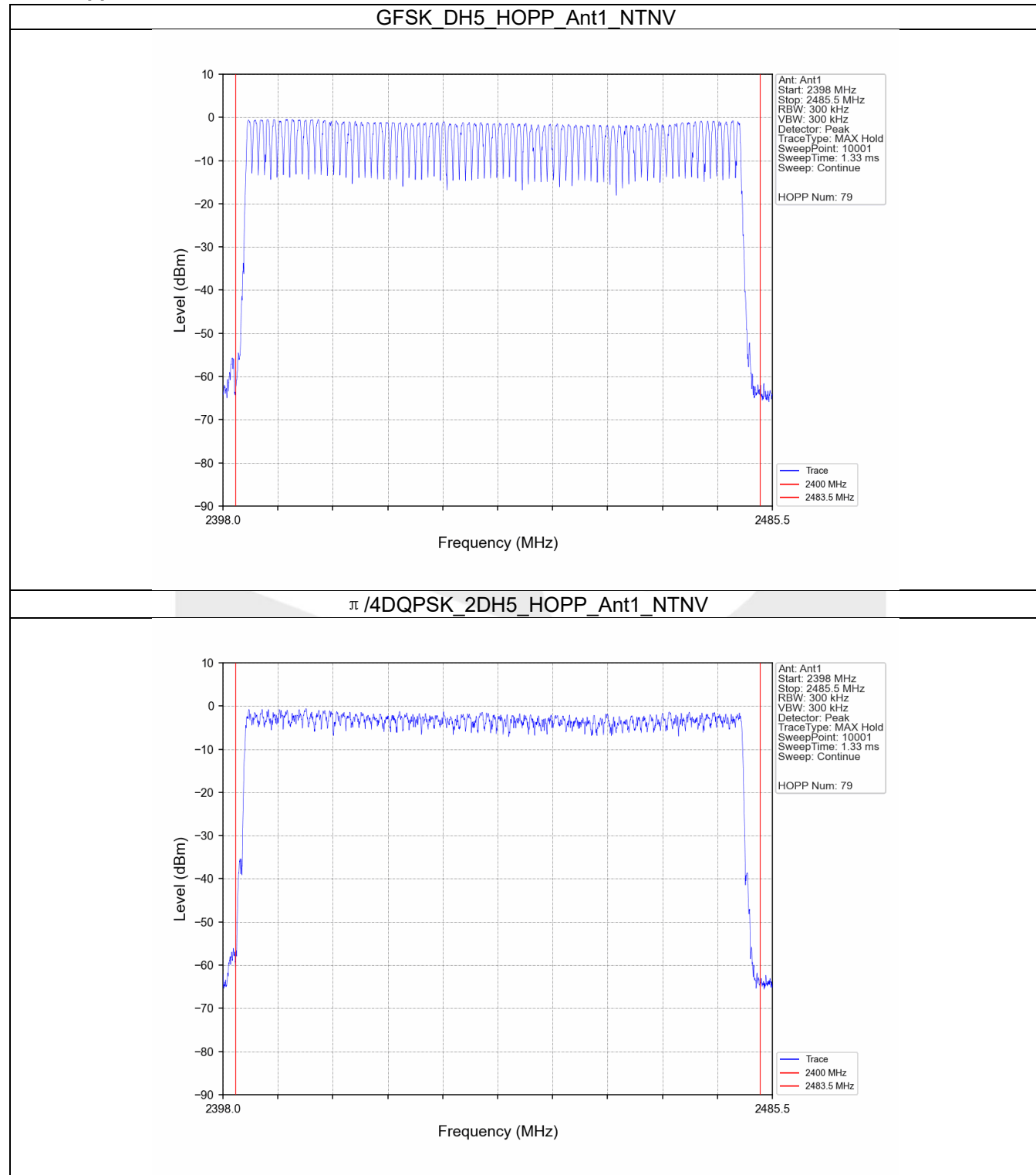
5.1 Test Result

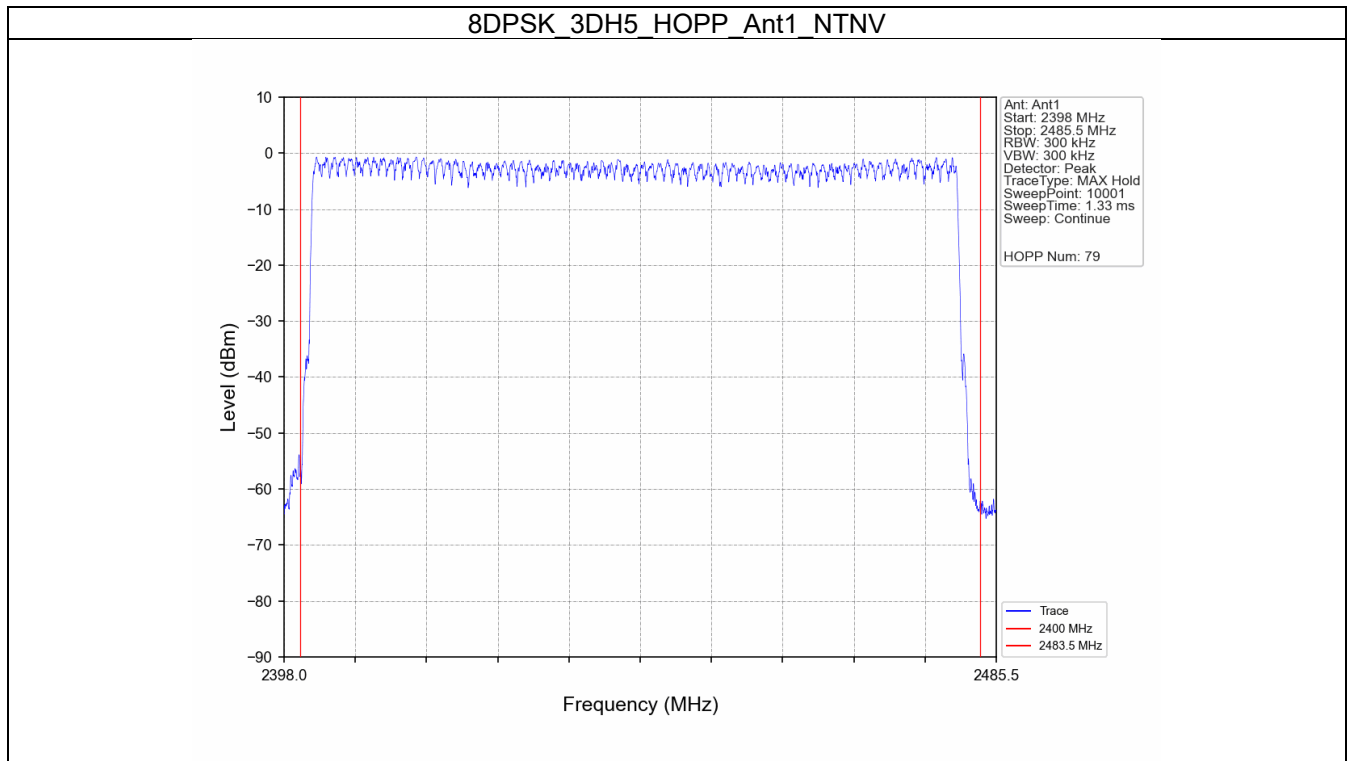
5.1.1 HoppNum

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

5.2 Test Graph

5.2.1 HoppNum





6. Time of Occupancy (Dwell Time)

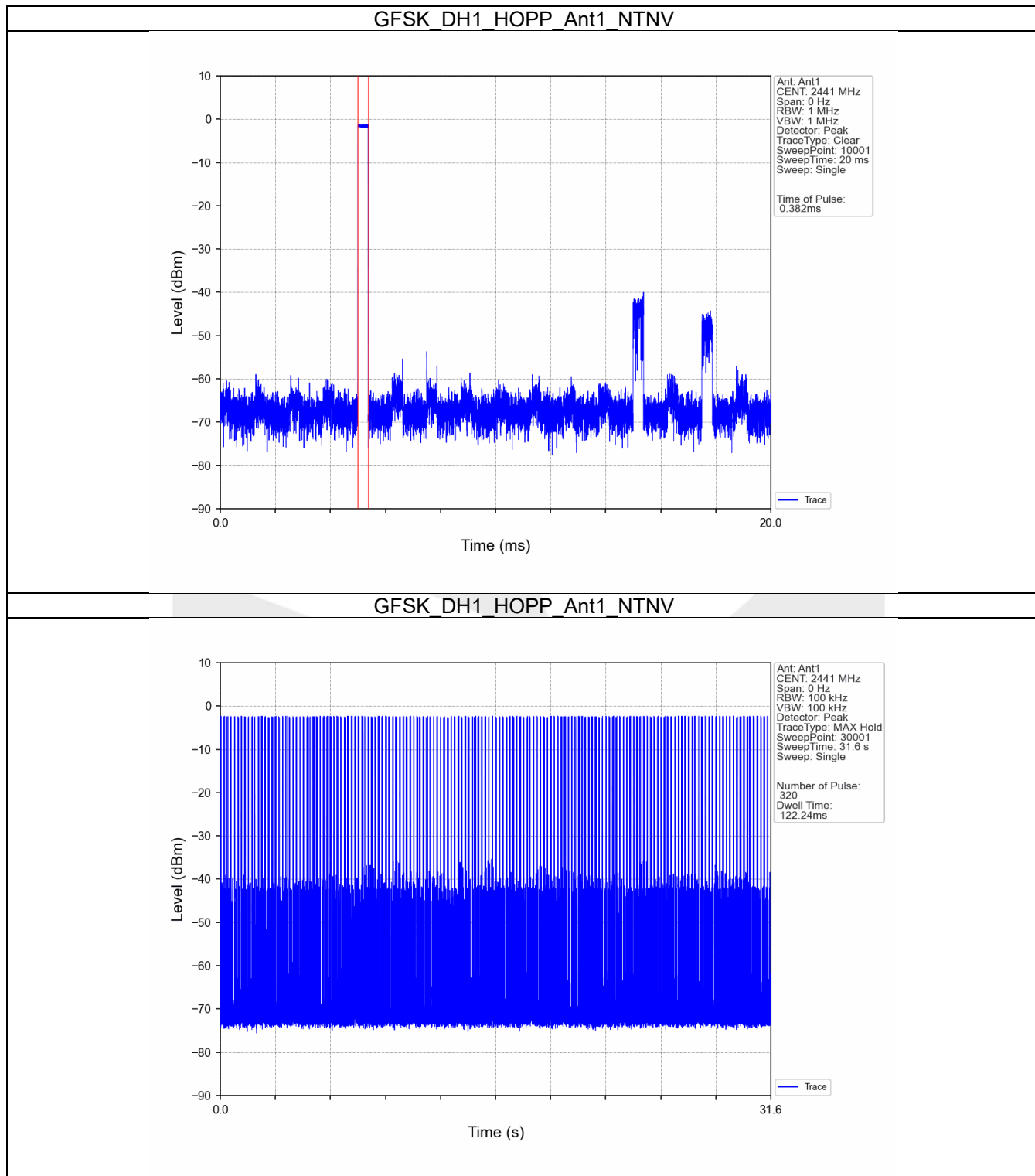
6.1 Test Result

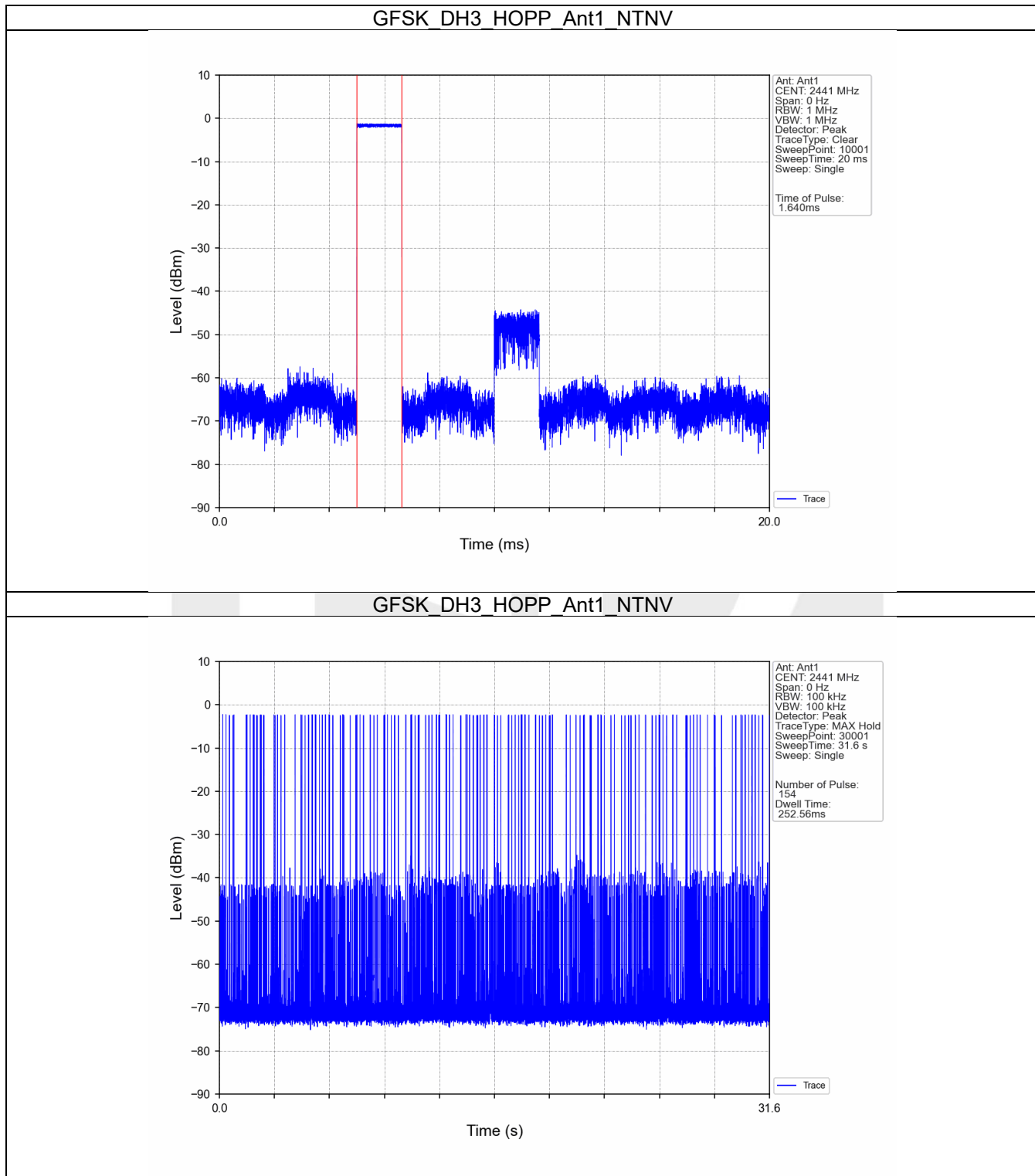
6.1.1 Ant1

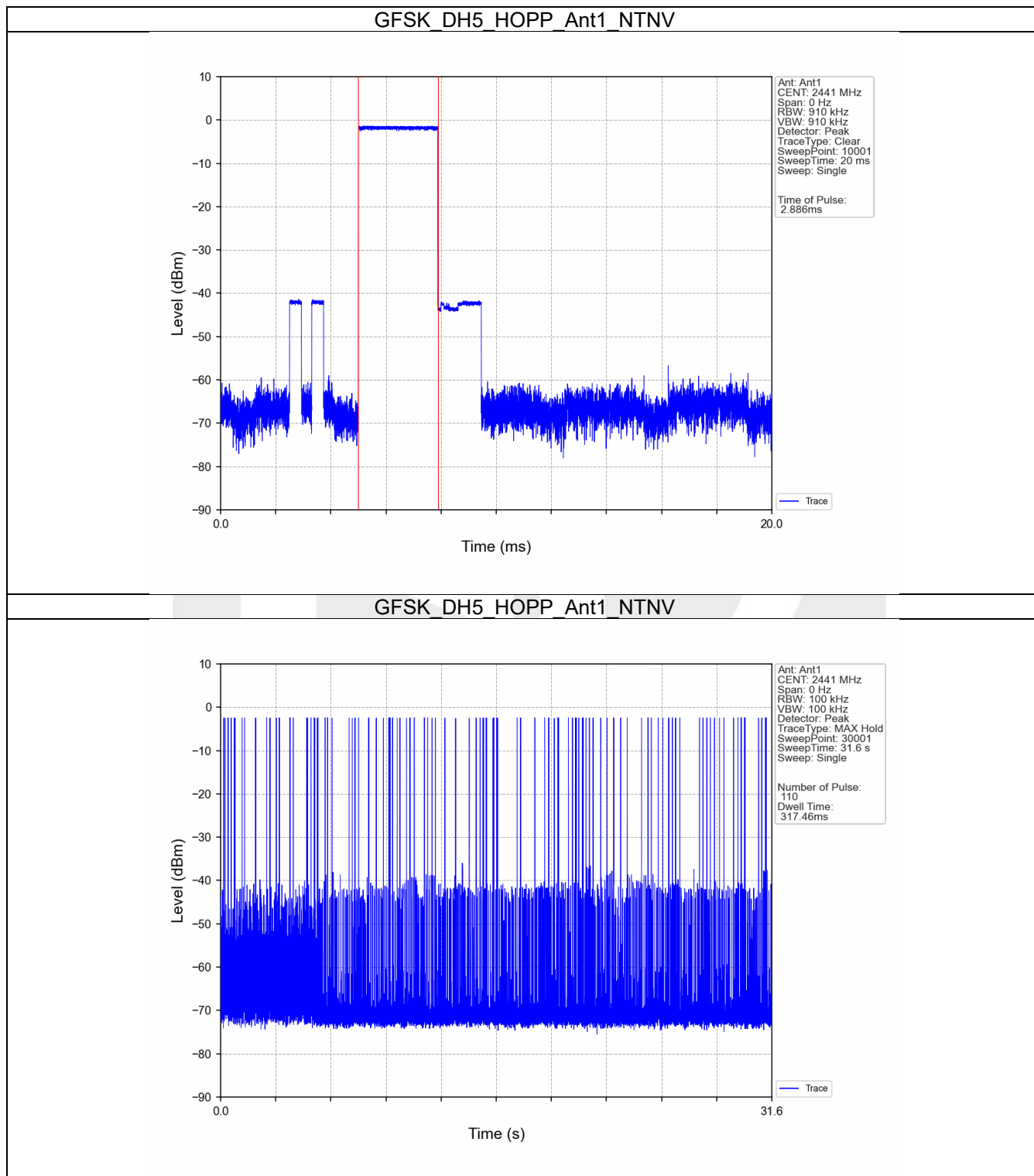
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.382	31.600	320	122.240	<=400	Pass
			DH3	1.640	31.600	154	252.560	<=400	Pass
			DH5	2.886	31.600	110	317.460	<=400	Pass
π /4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.646	31.600	158	260.068	<=400	Pass
			2DH5	2.898	31.600	101	292.698	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.648	31.600	147	242.256	<=400	Pass
			3DH5	2.900	31.600	111	321.900	<=400	Pass

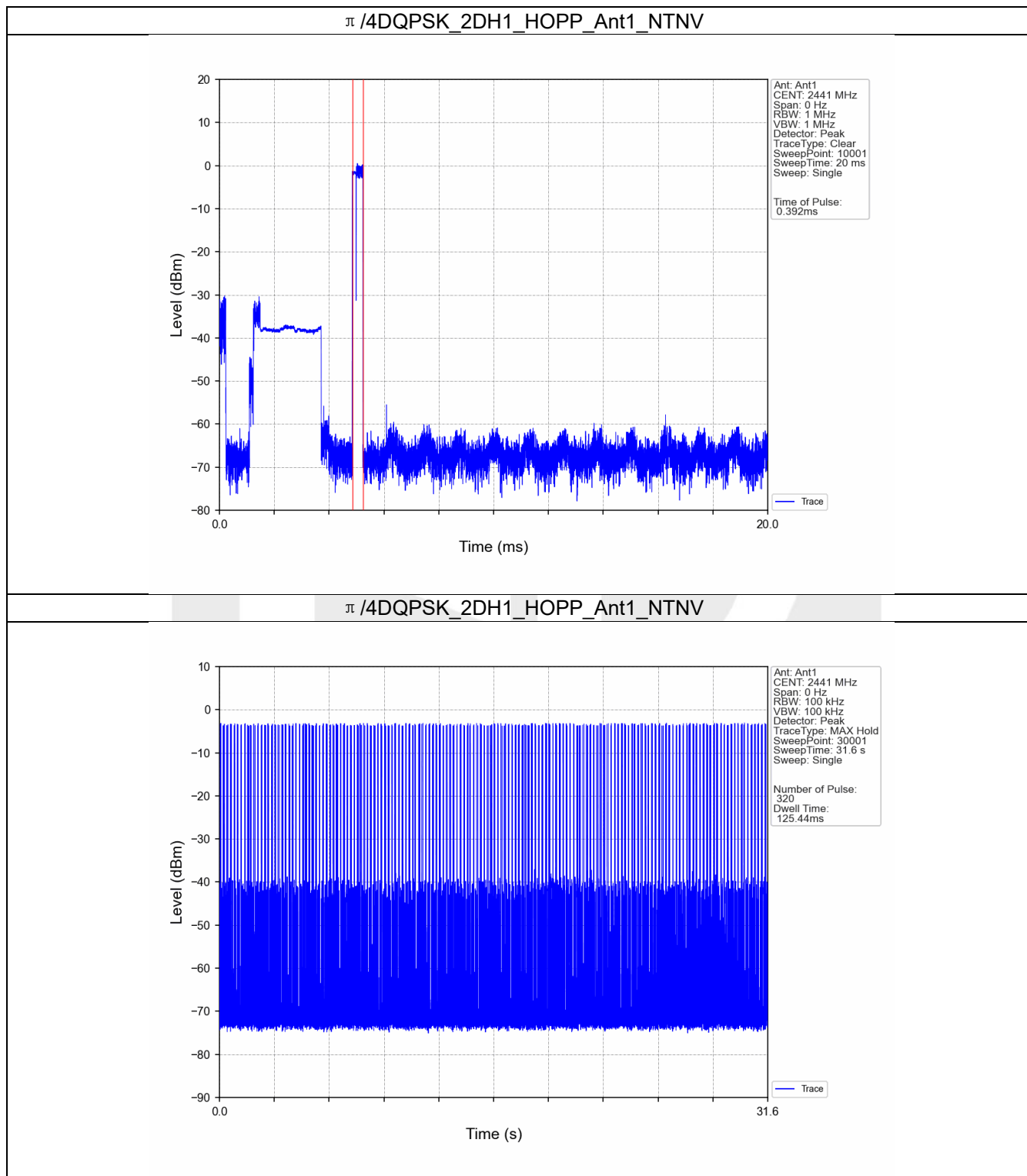
6.2 Test Graph

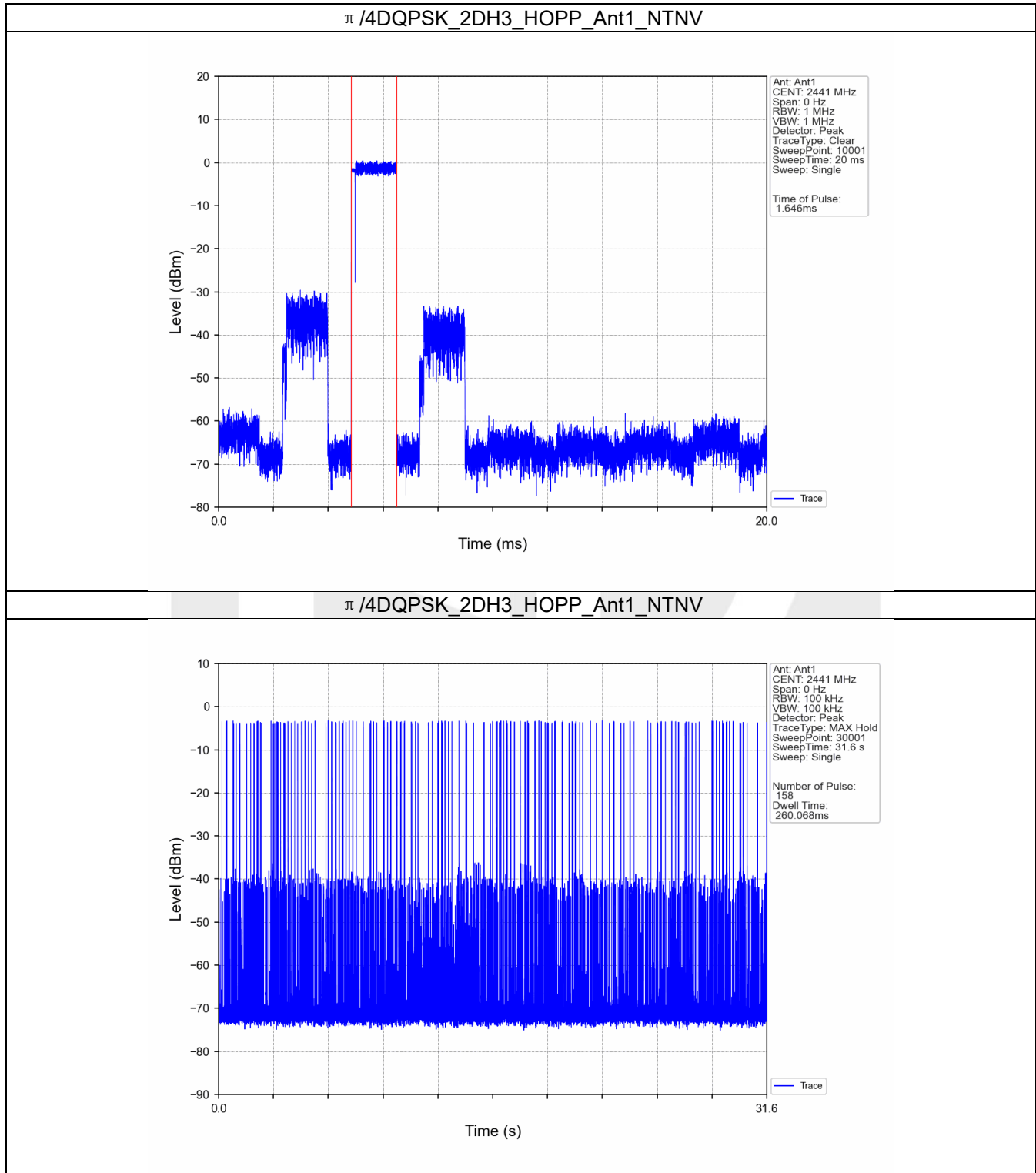
6.2.1 Ant1

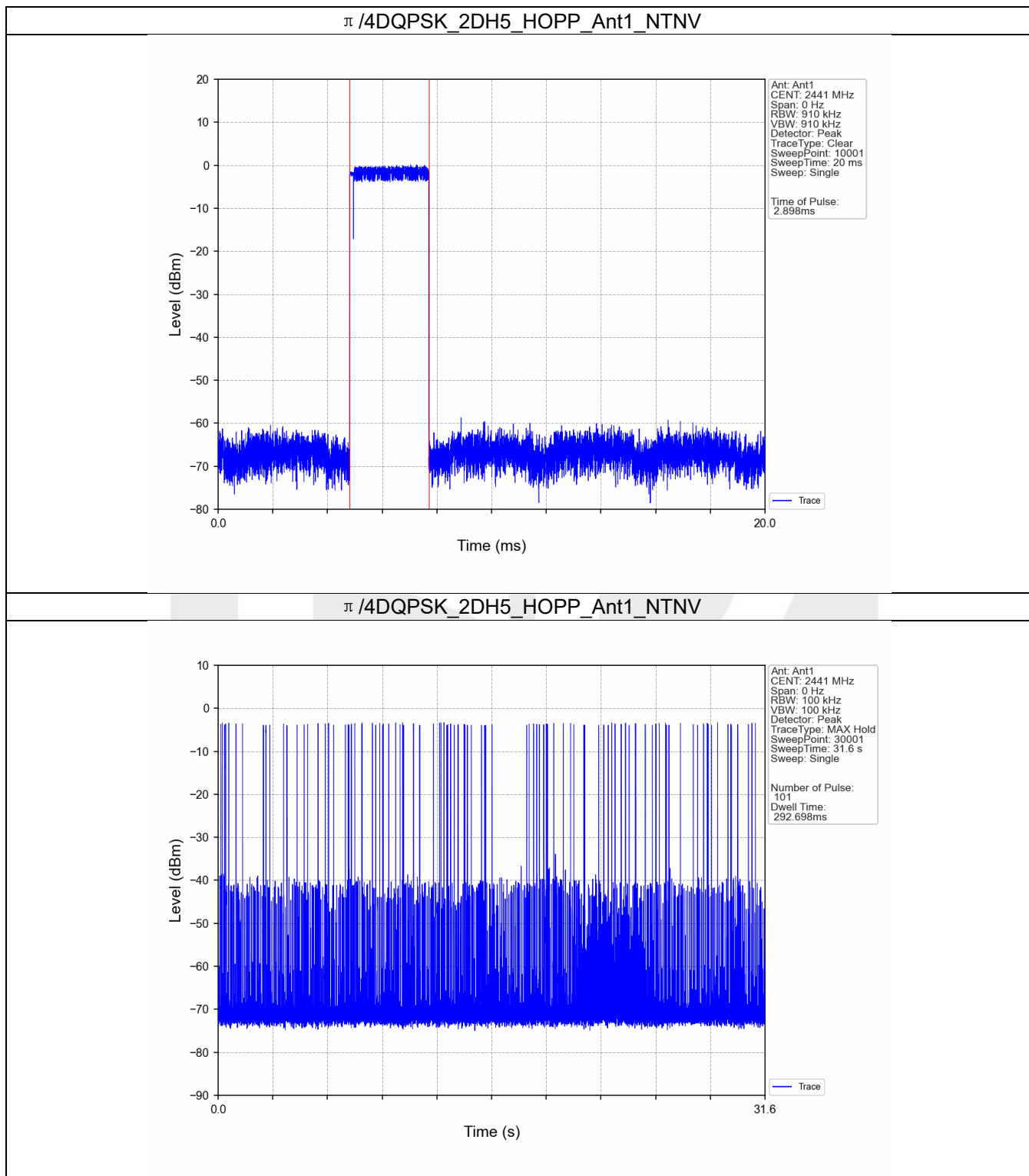


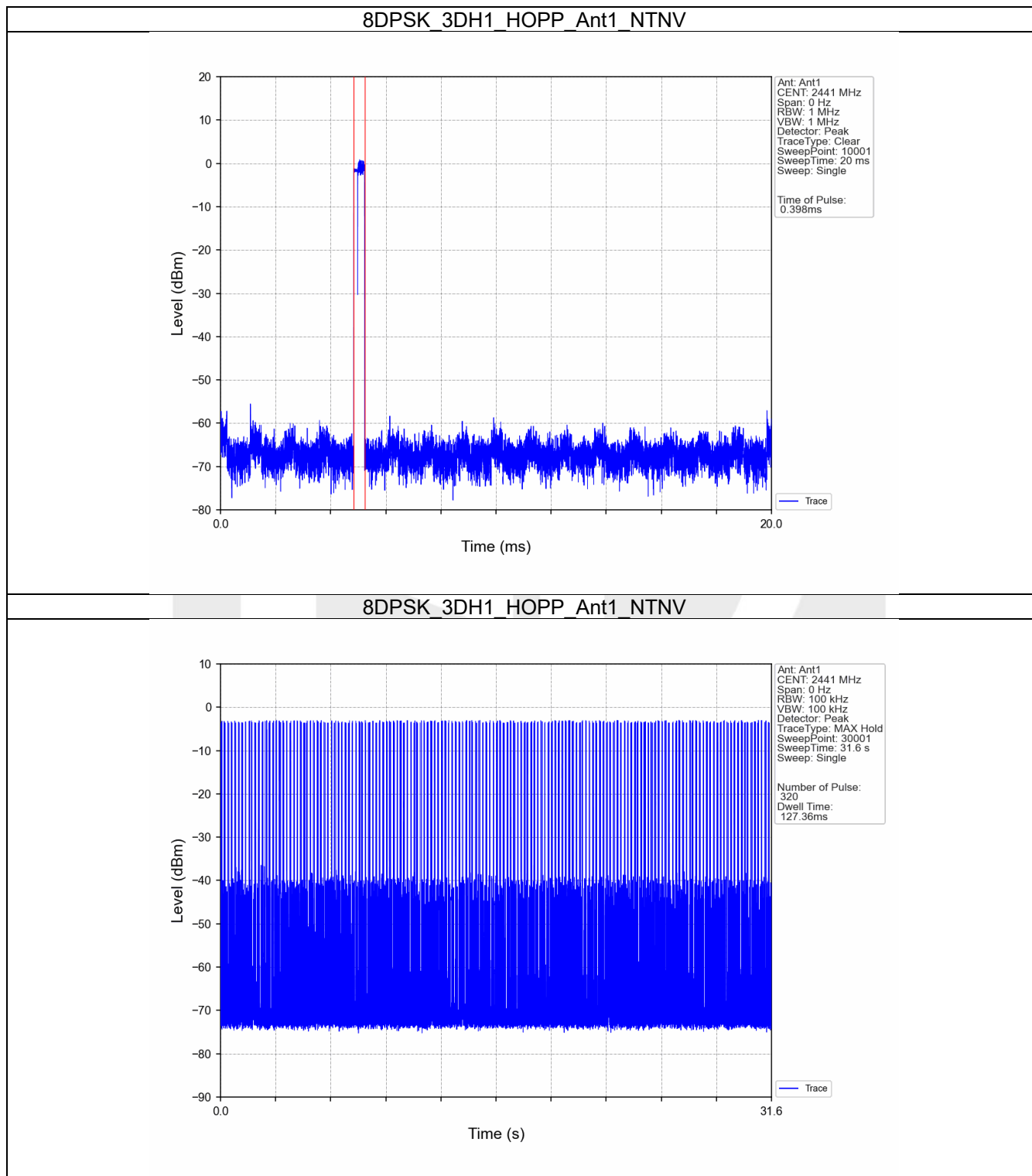


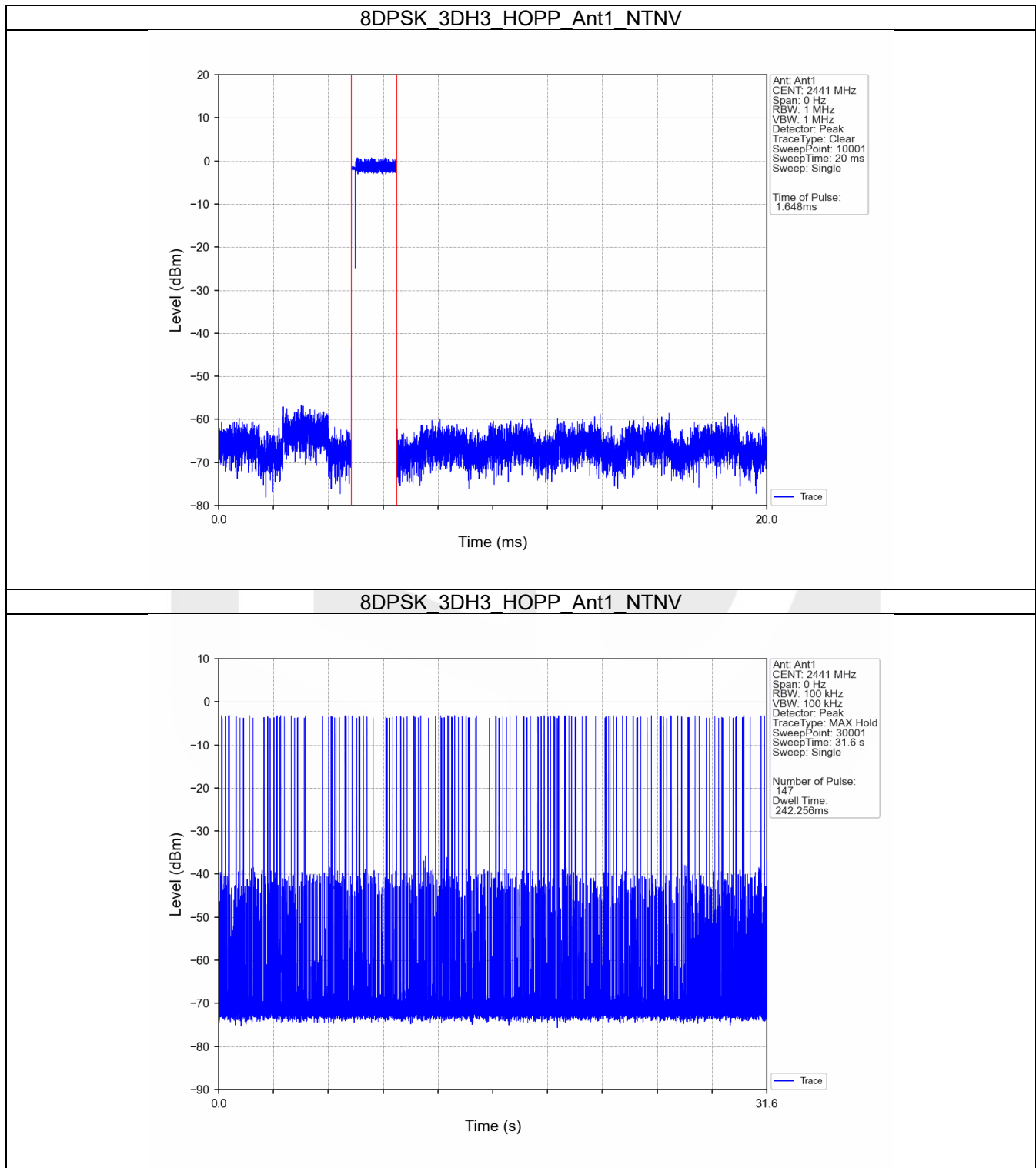


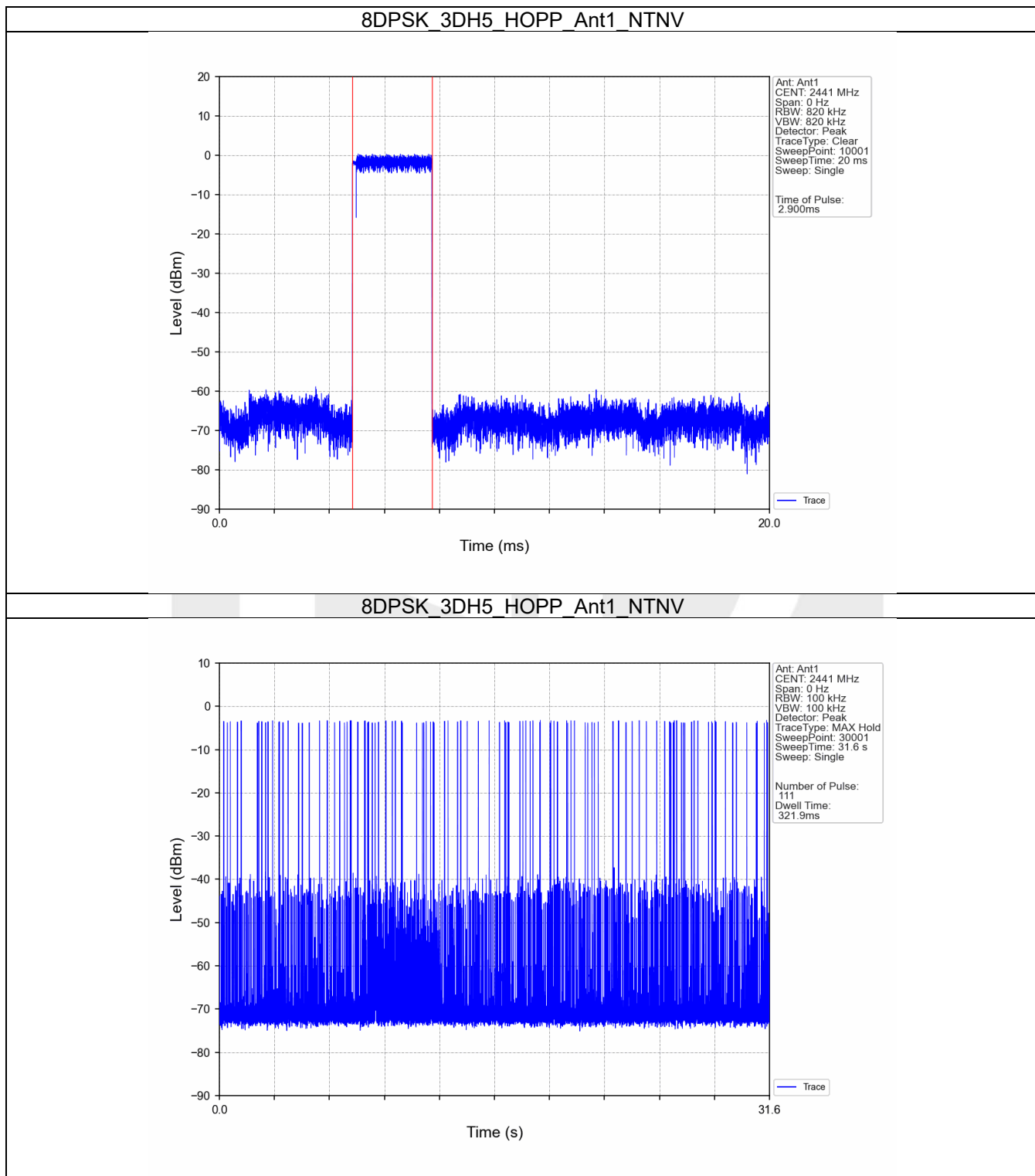












7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

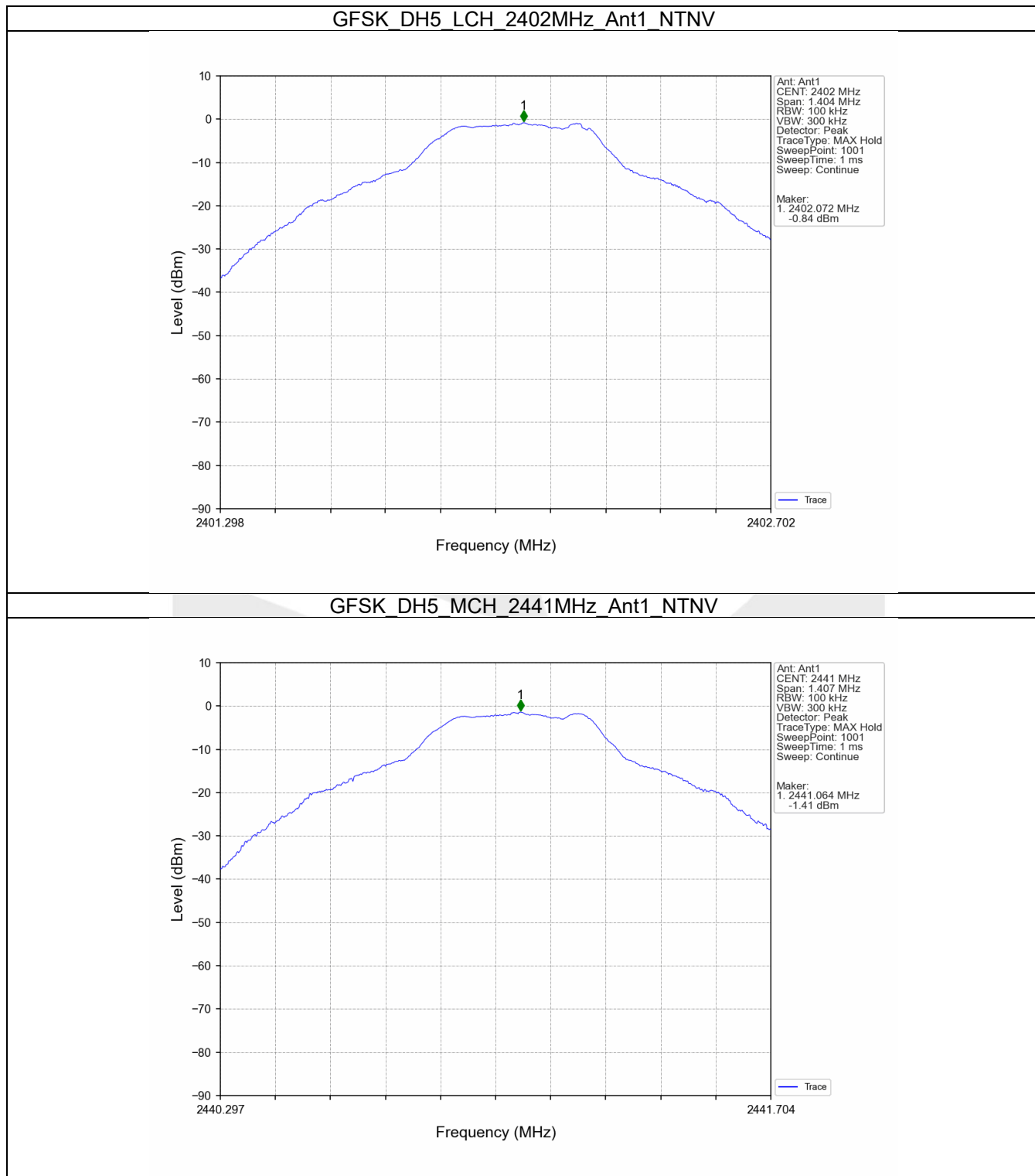
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.84
		2441	DH5	1	-1.41
		2480	DH5	1	-0.75
		HOPP	DH5	1	-0.86
					-0.86
$\pi/4$ DQPSK	SISO	2402	2DH5	1	-1.02
		2441	2DH5	1	-1.57
		2480	2DH5	1	-0.84
		HOPP	2DH5	1	-0.88
					-0.88
8DPSK	SISO	2402	3DH5	1	-0.82
		2441	3DH5	1	-1.59
		2480	3DH5	1	-1.28
		HOPP	3DH5	1	-0.70
					-0.70
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.					

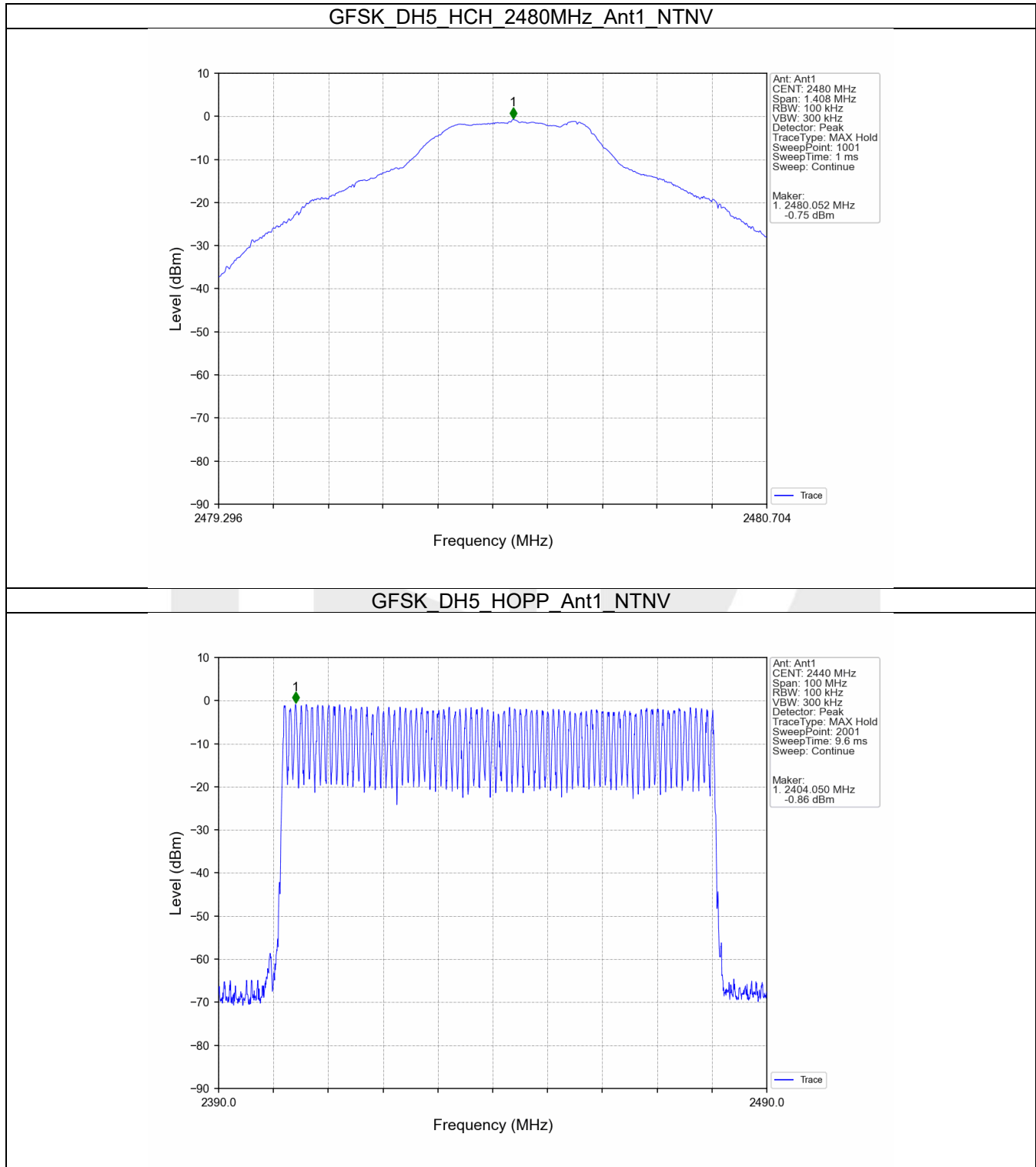
7.1.2 CSE

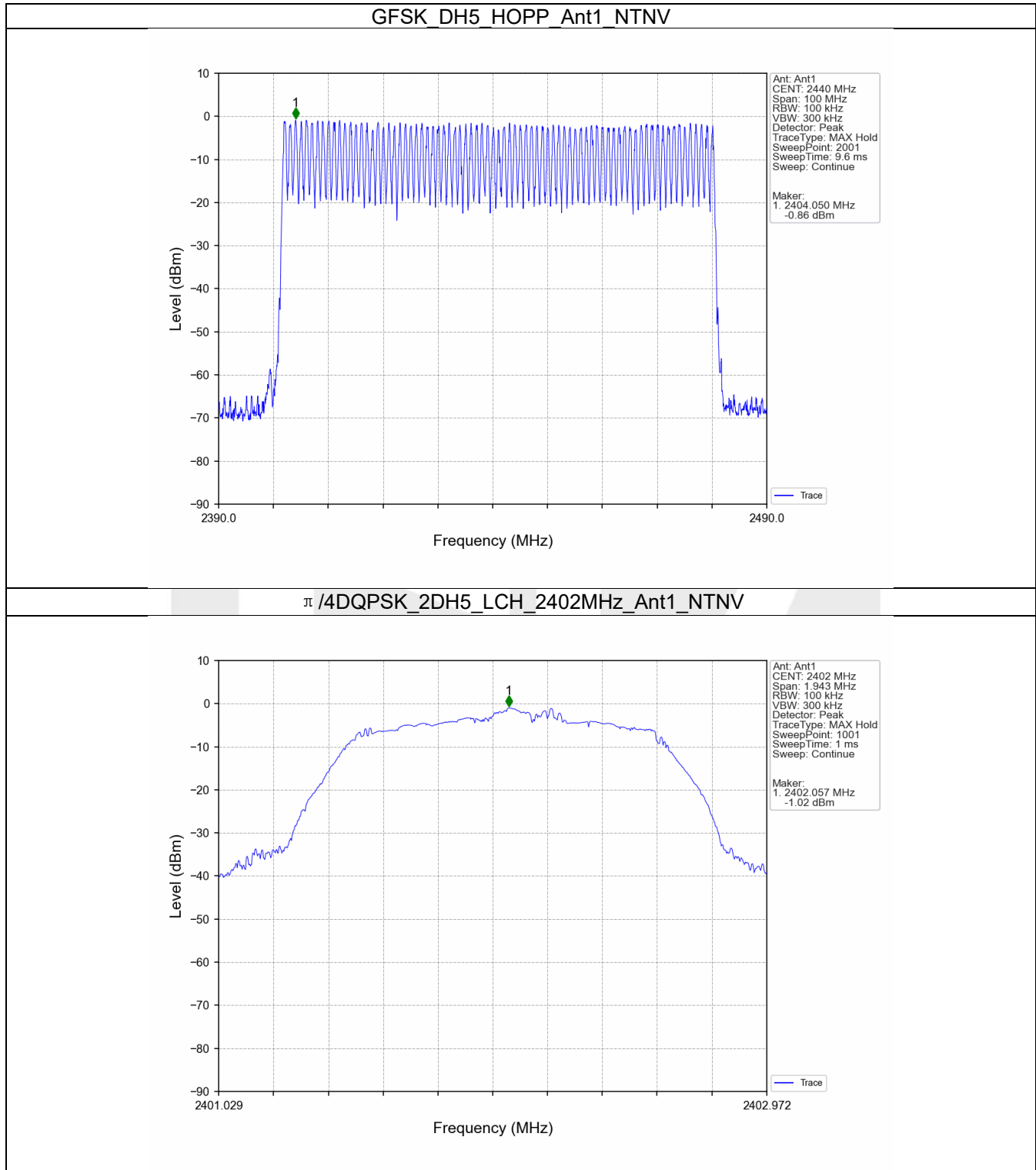
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.84	-20.84	Pass
		2441	DH5	1	-1.41	-21.41	Pass
		2480	DH5	1	-0.75	-20.75	Pass
		HOPP	DH5	1	-0.86	-20.86	Pass
					-0.86	-20.86	Pass
$\pi/4$ DQPSK	SISO	2402	2DH5	1	-1.02	-21.02	Pass
		2441	2DH5	1	-1.57	-21.57	Pass
		2480	2DH5	1	-0.84	-20.84	Pass
		HOPP	2DH5	1	-0.88	-20.88	Pass
					-0.88	-20.88	Pass
8DPSK	SISO	2402	3DH5	1	-0.82	-20.82	Pass
		2441	3DH5	1	-1.59	-21.59	Pass
		2480	3DH5	1	-1.28	-21.28	Pass
		HOPP	3DH5	1	-0.70	-20.70	Pass
					-0.70	-20.70	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.							

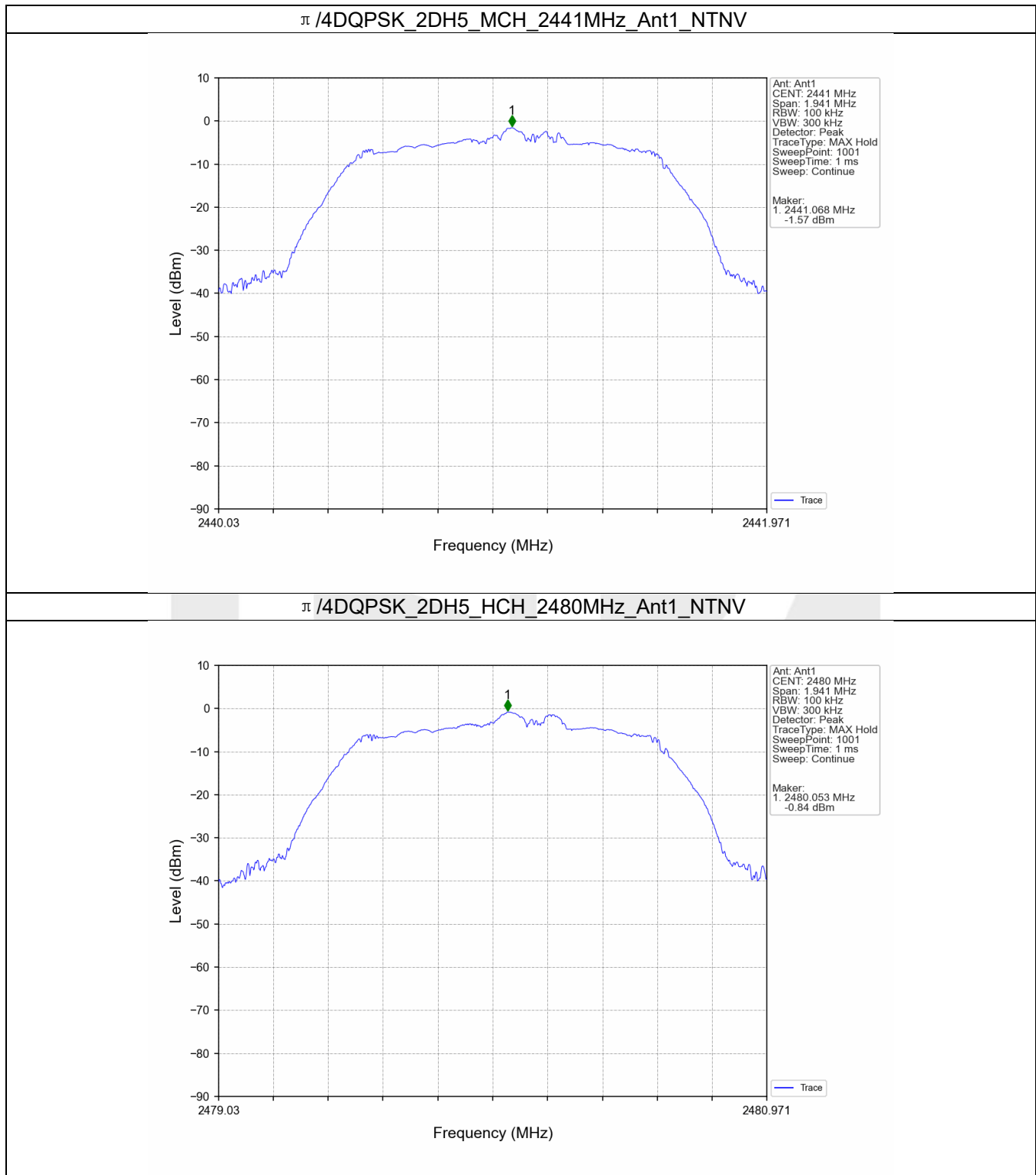
7.2 Test Graph

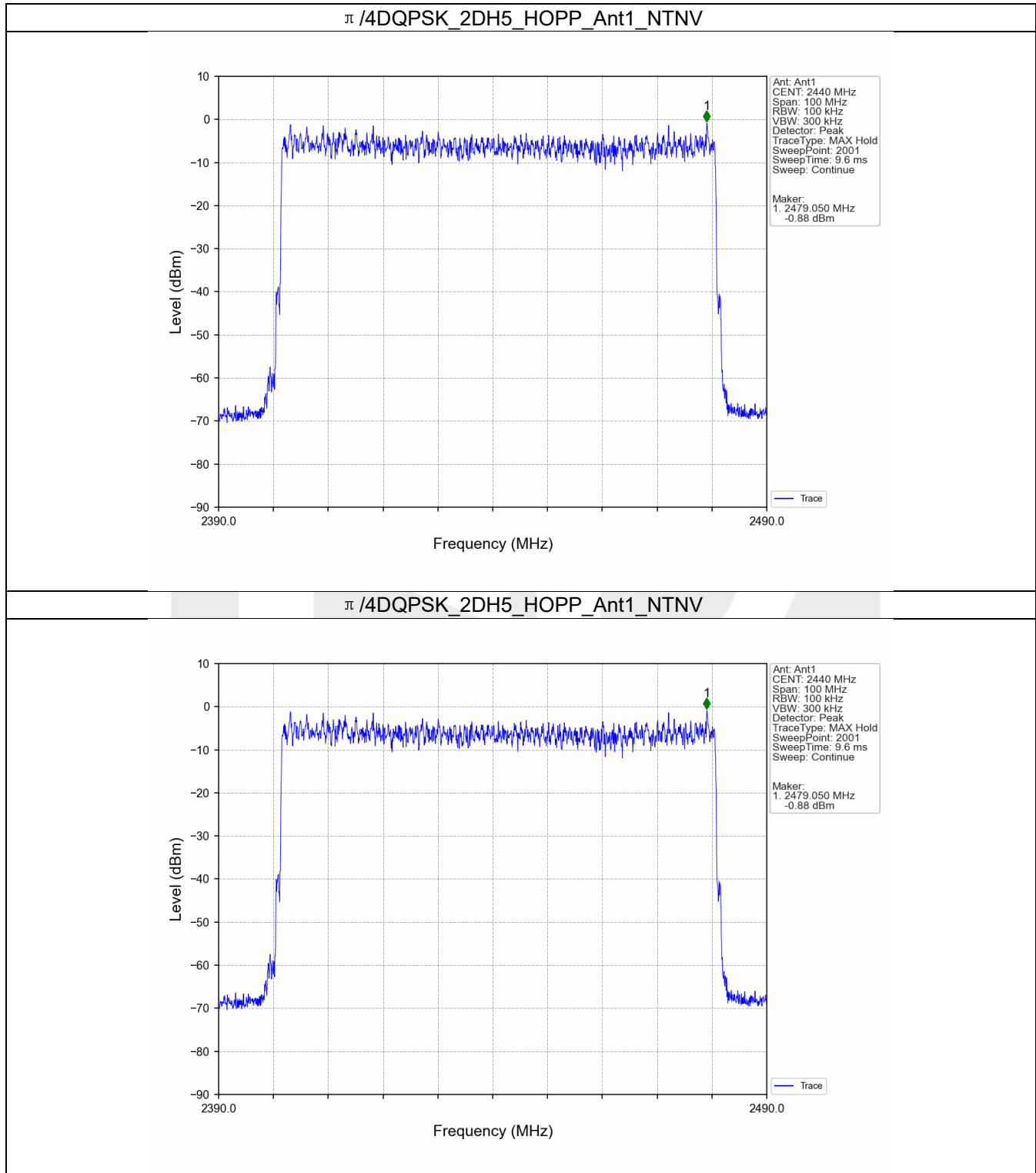
7.2.1 Ref

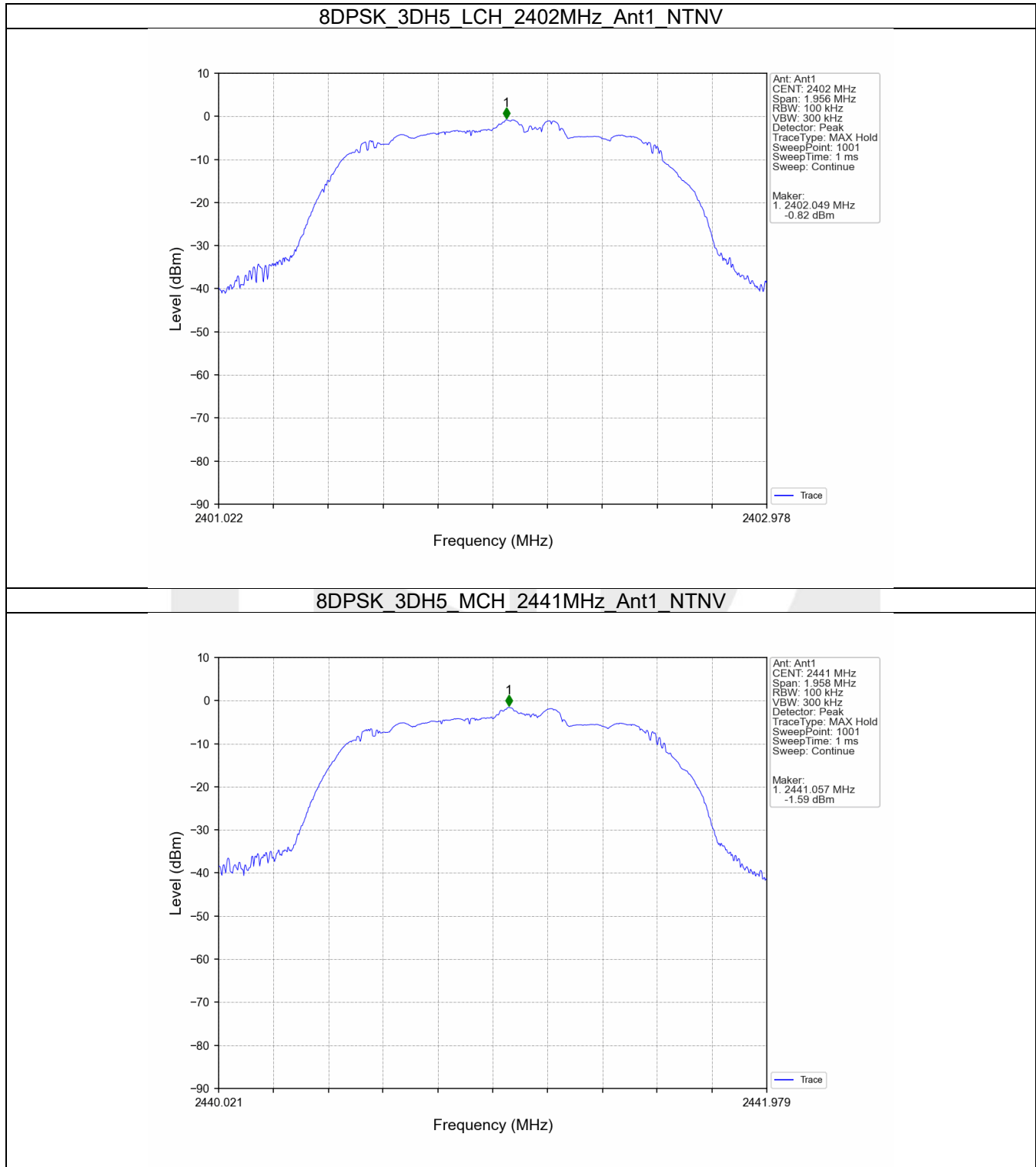


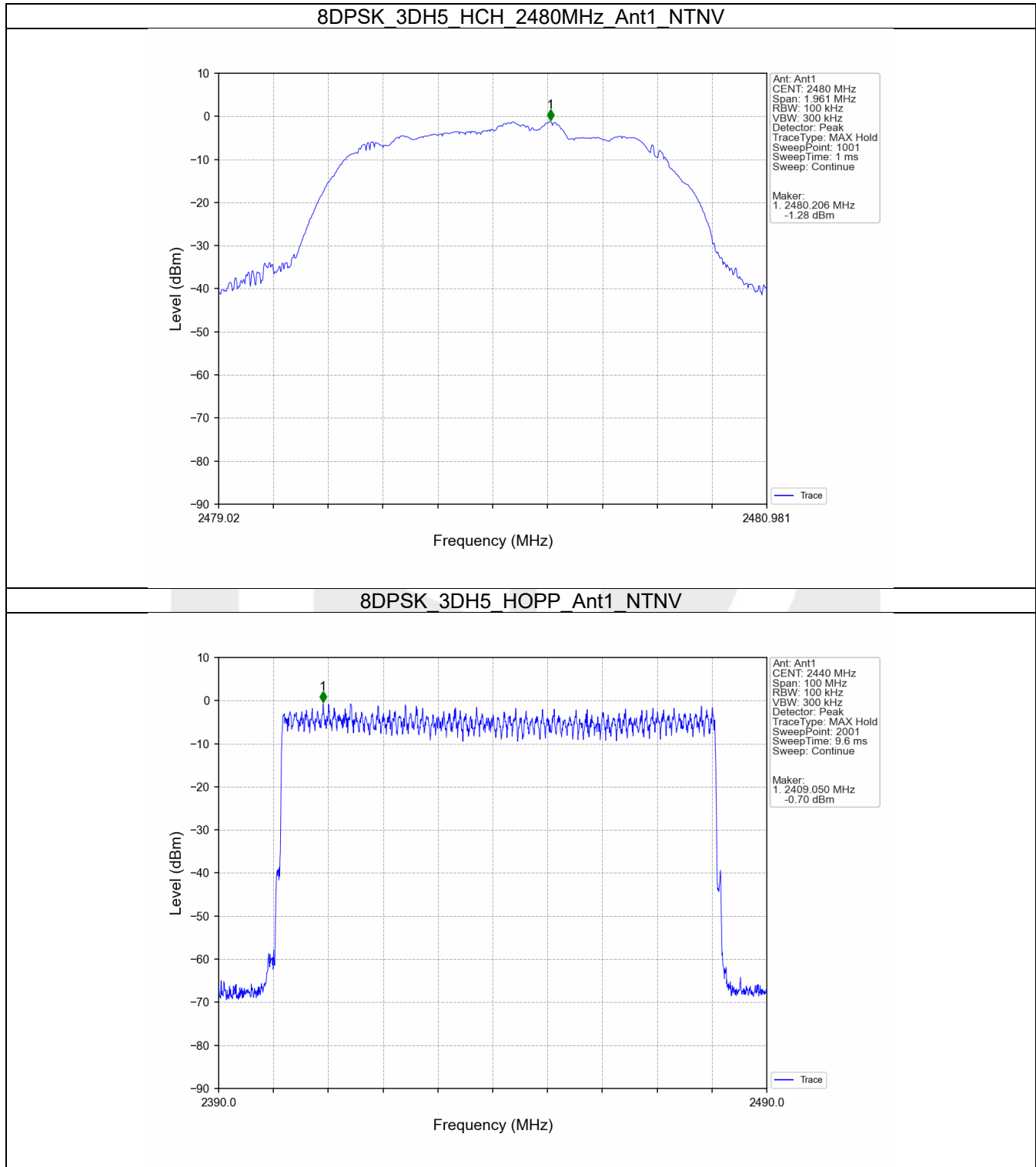


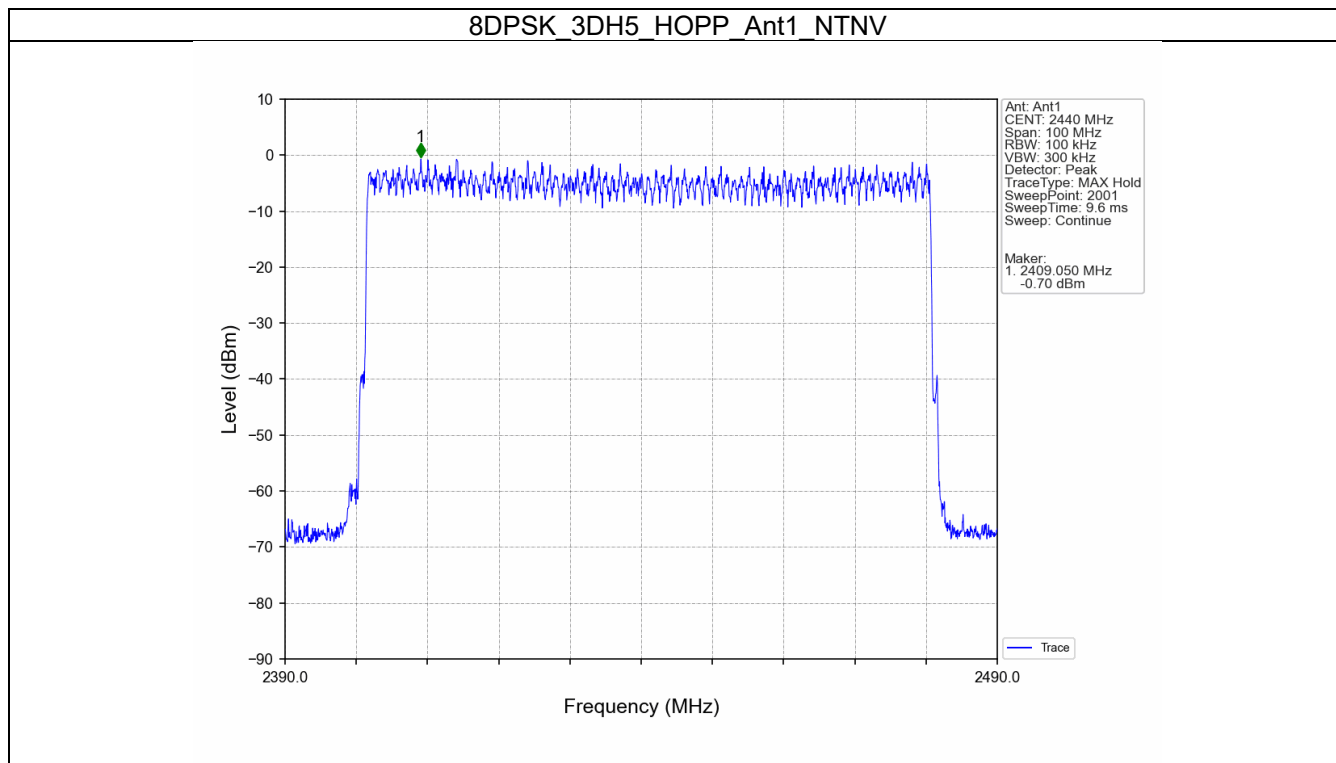




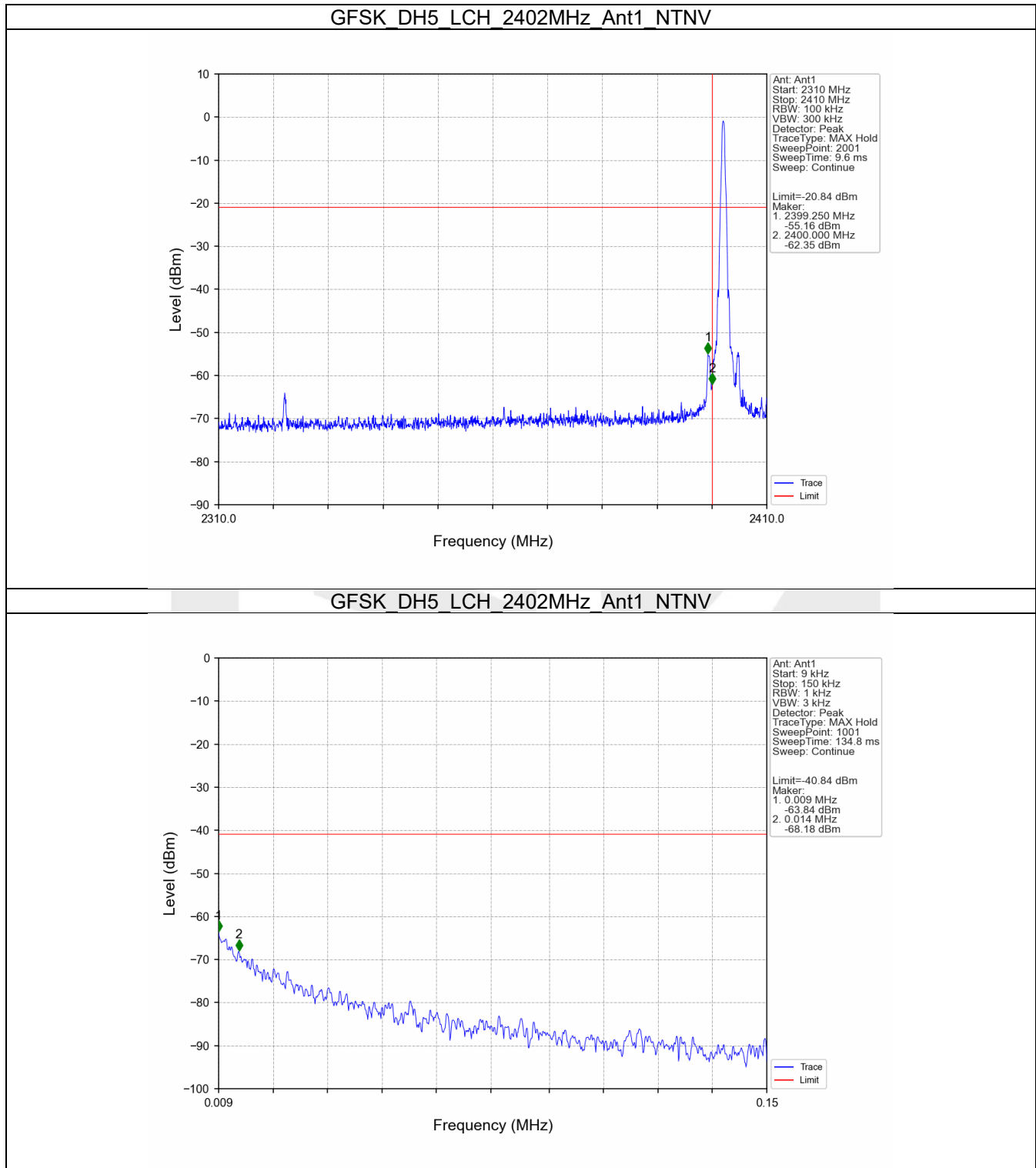


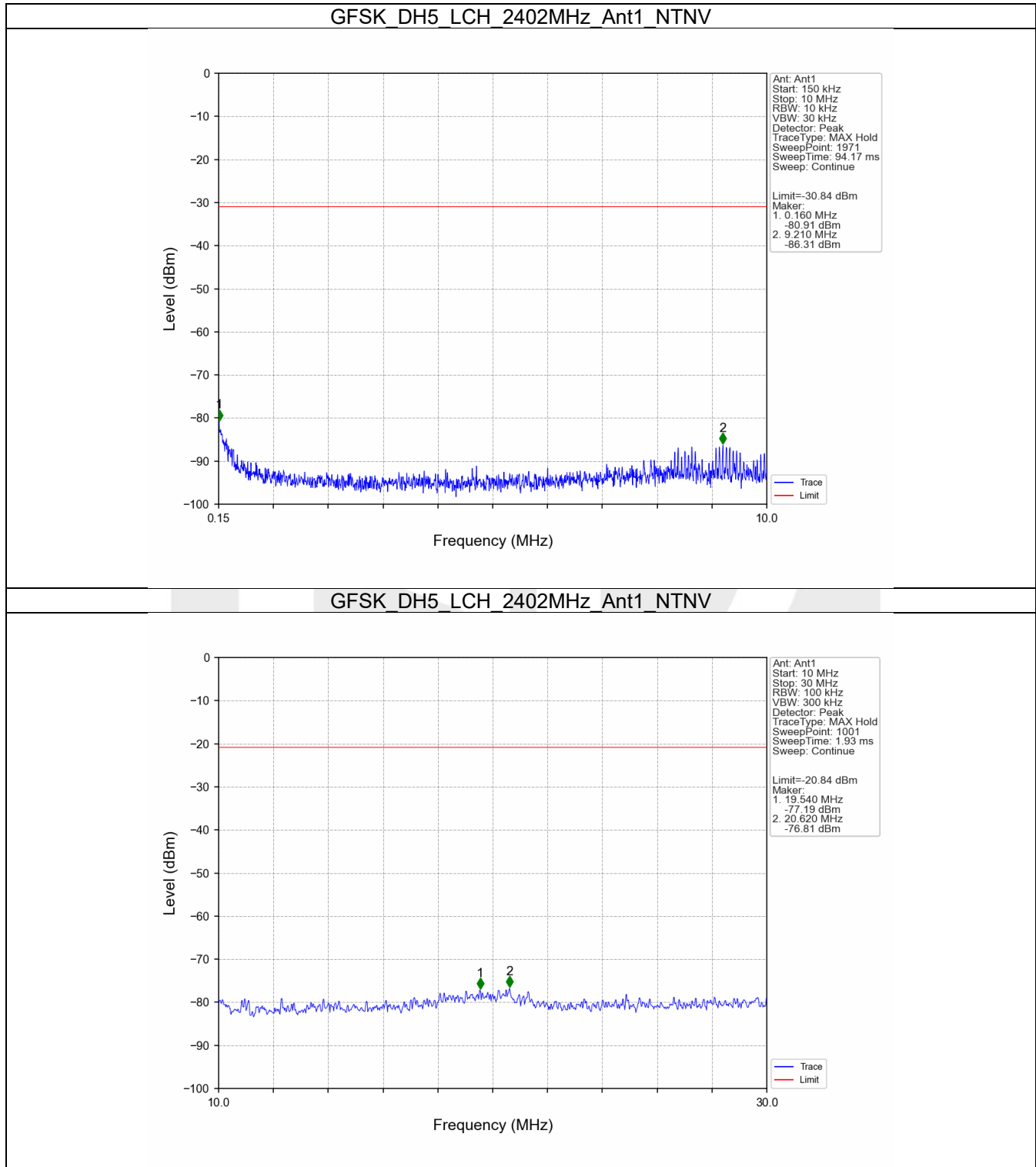


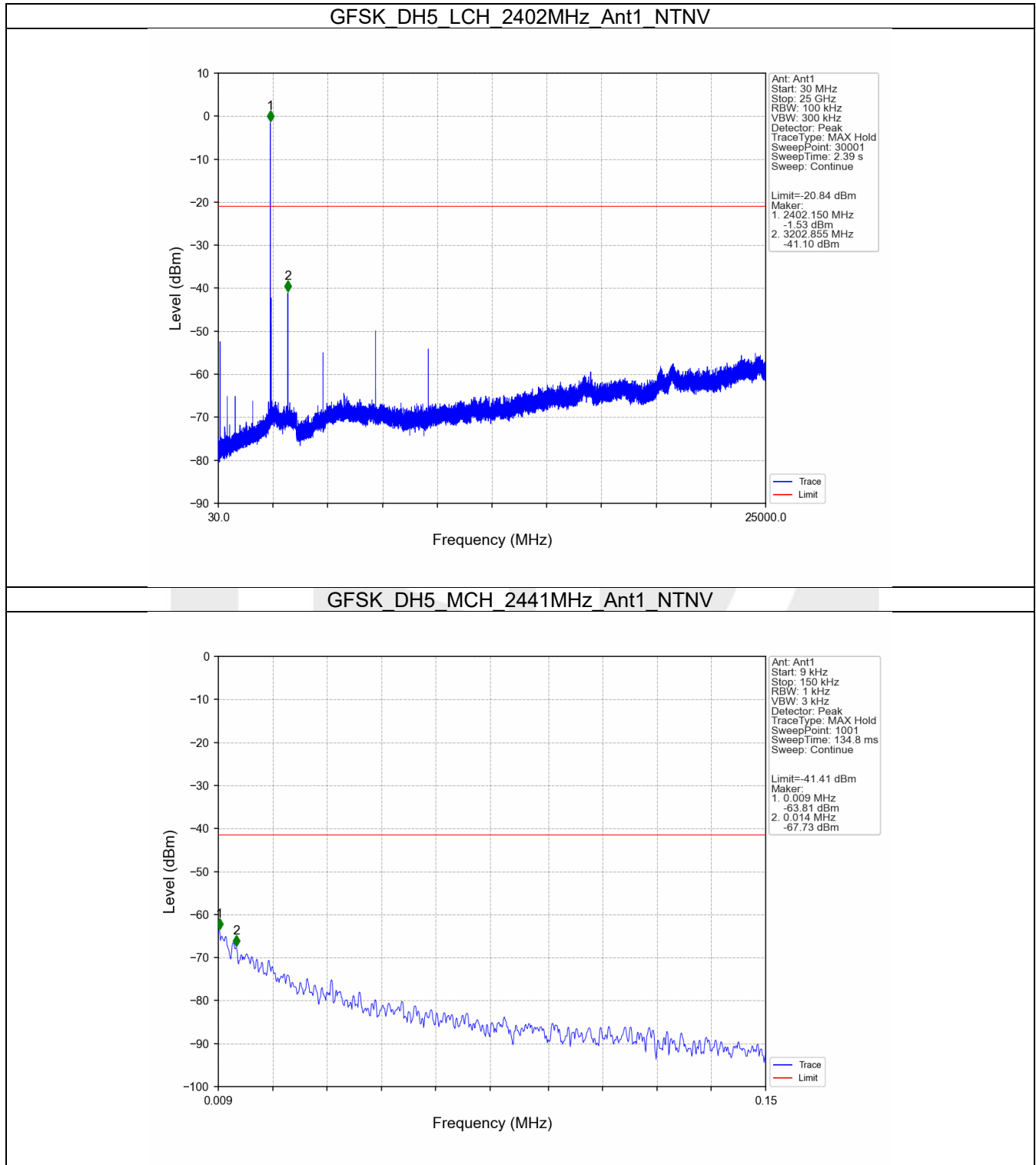


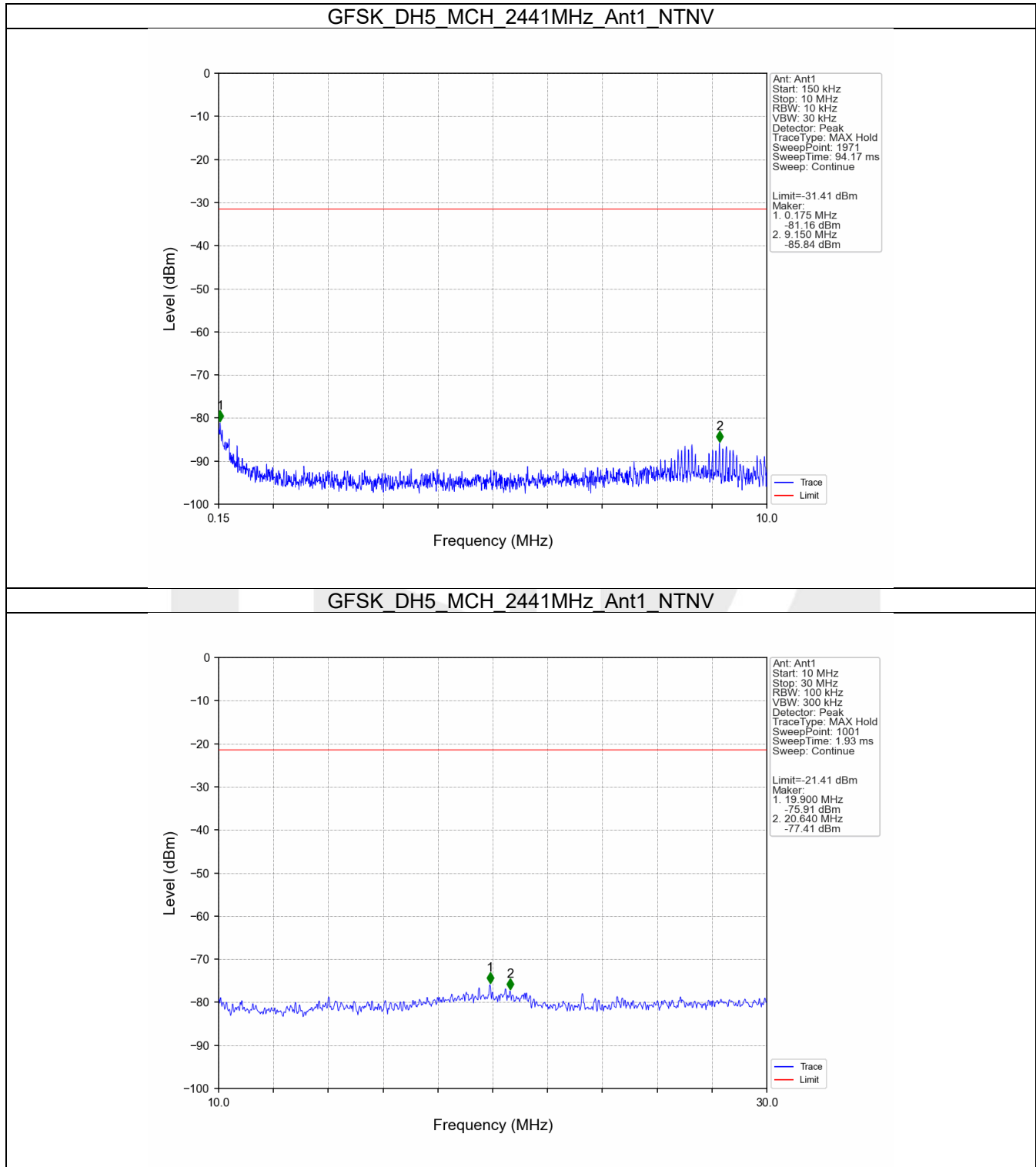


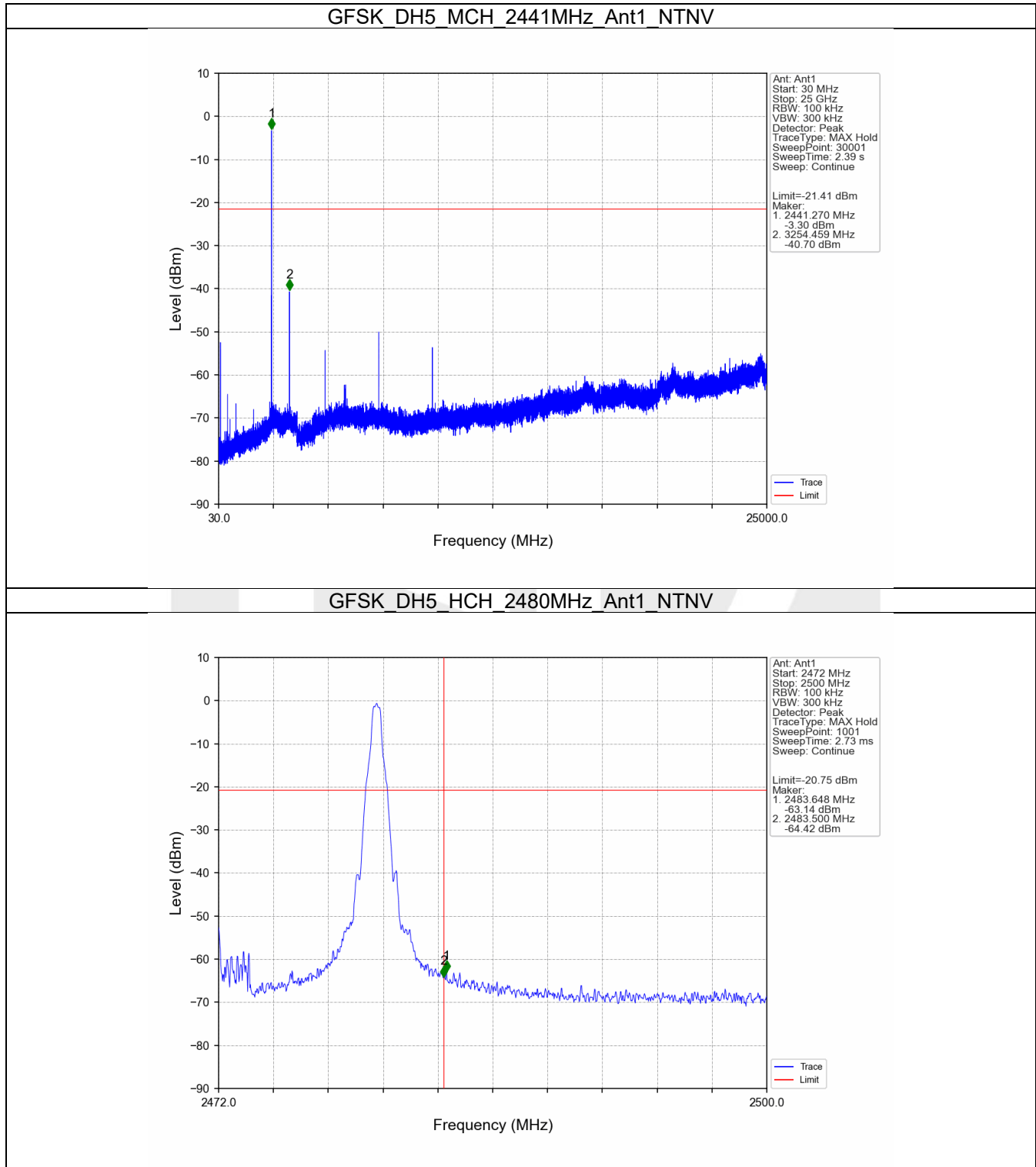
7.2.2 CSE

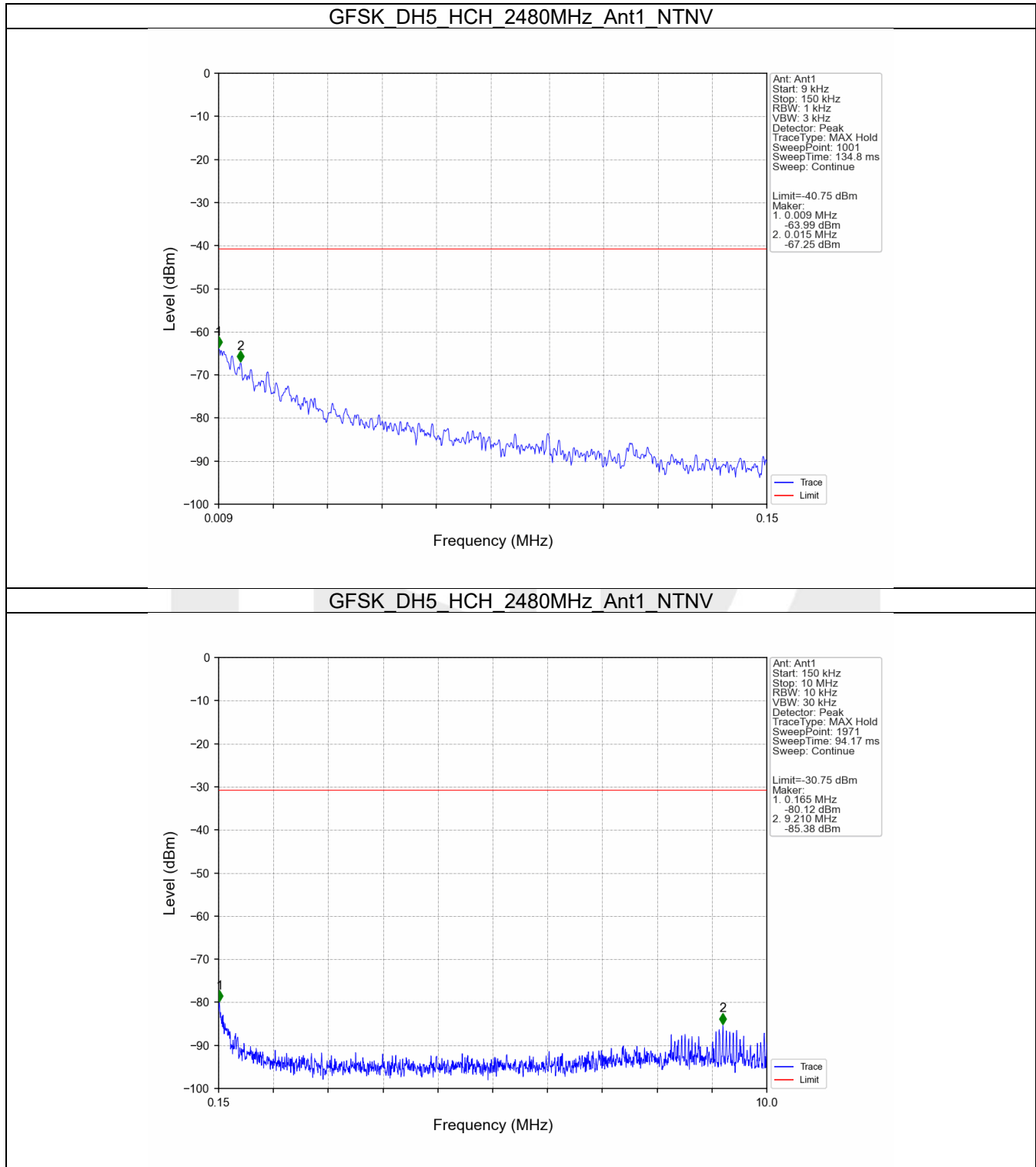


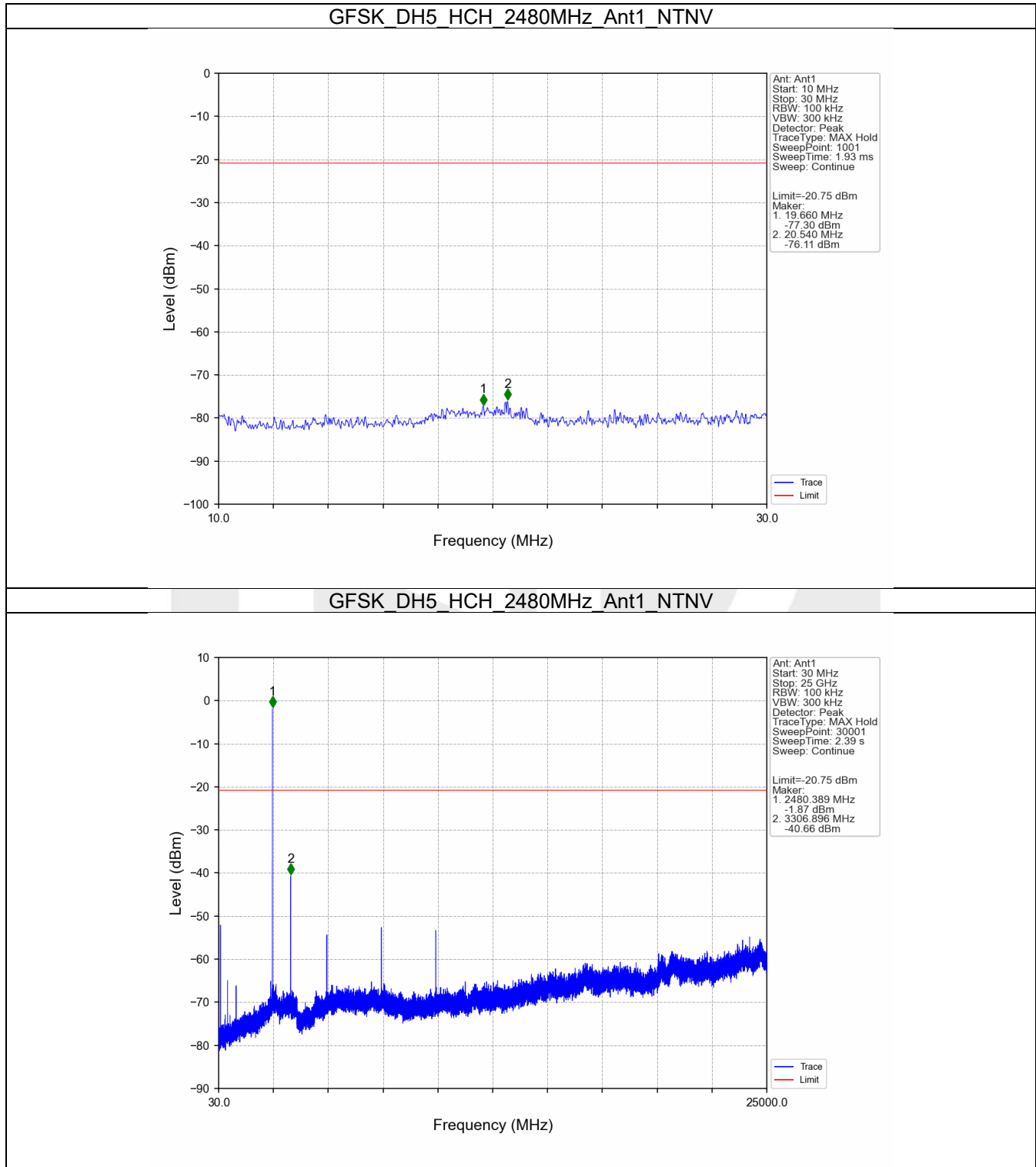


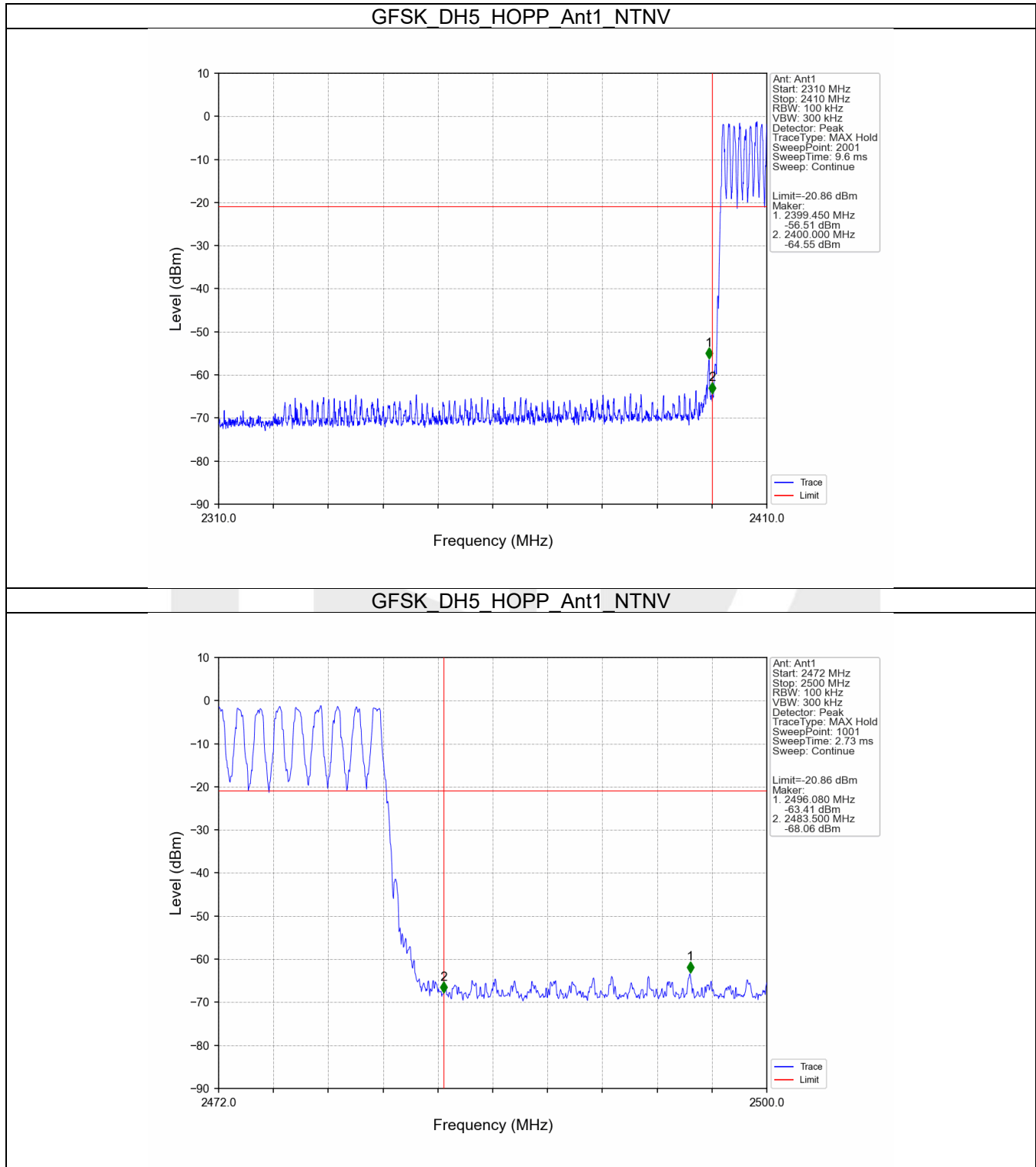


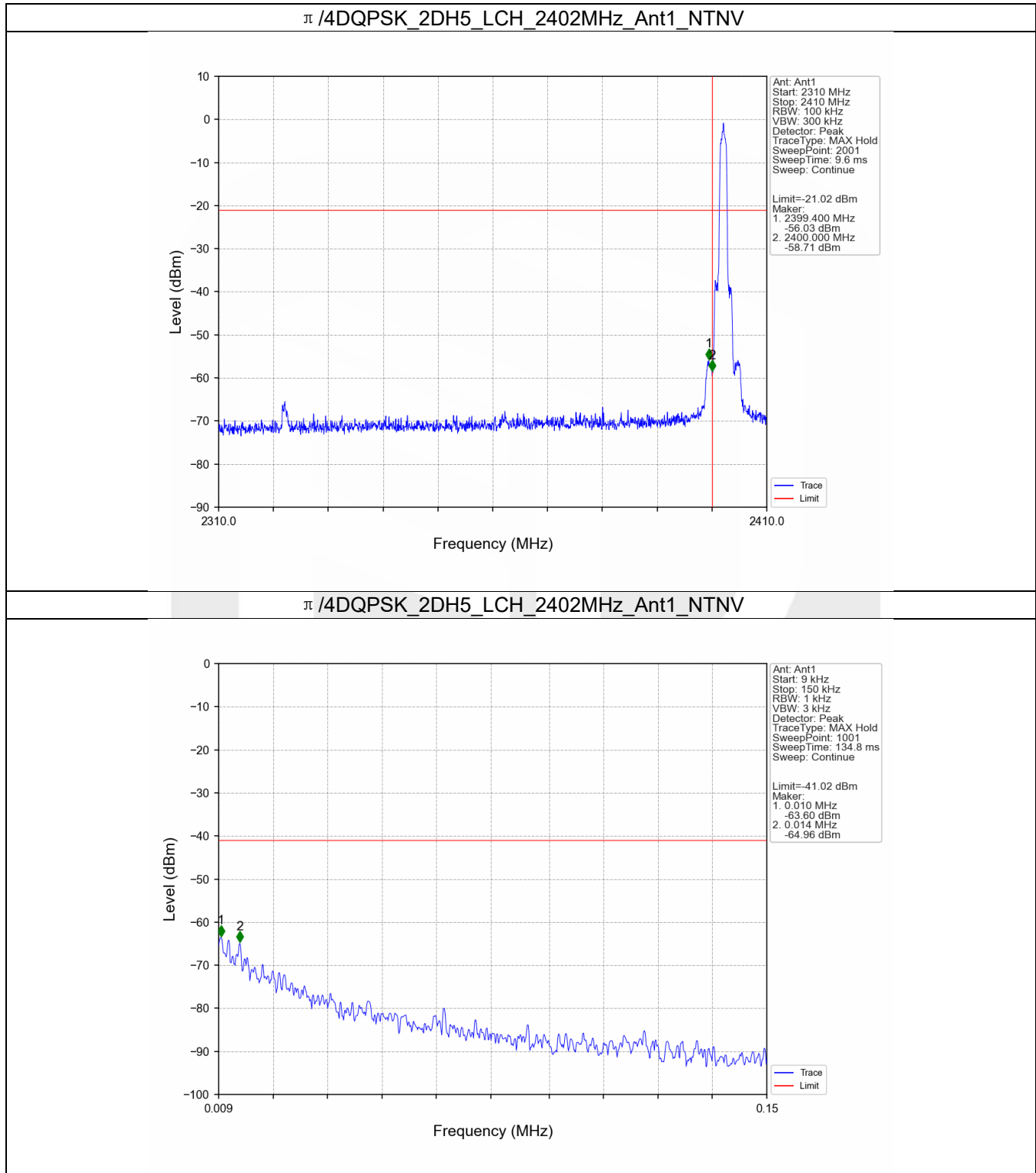


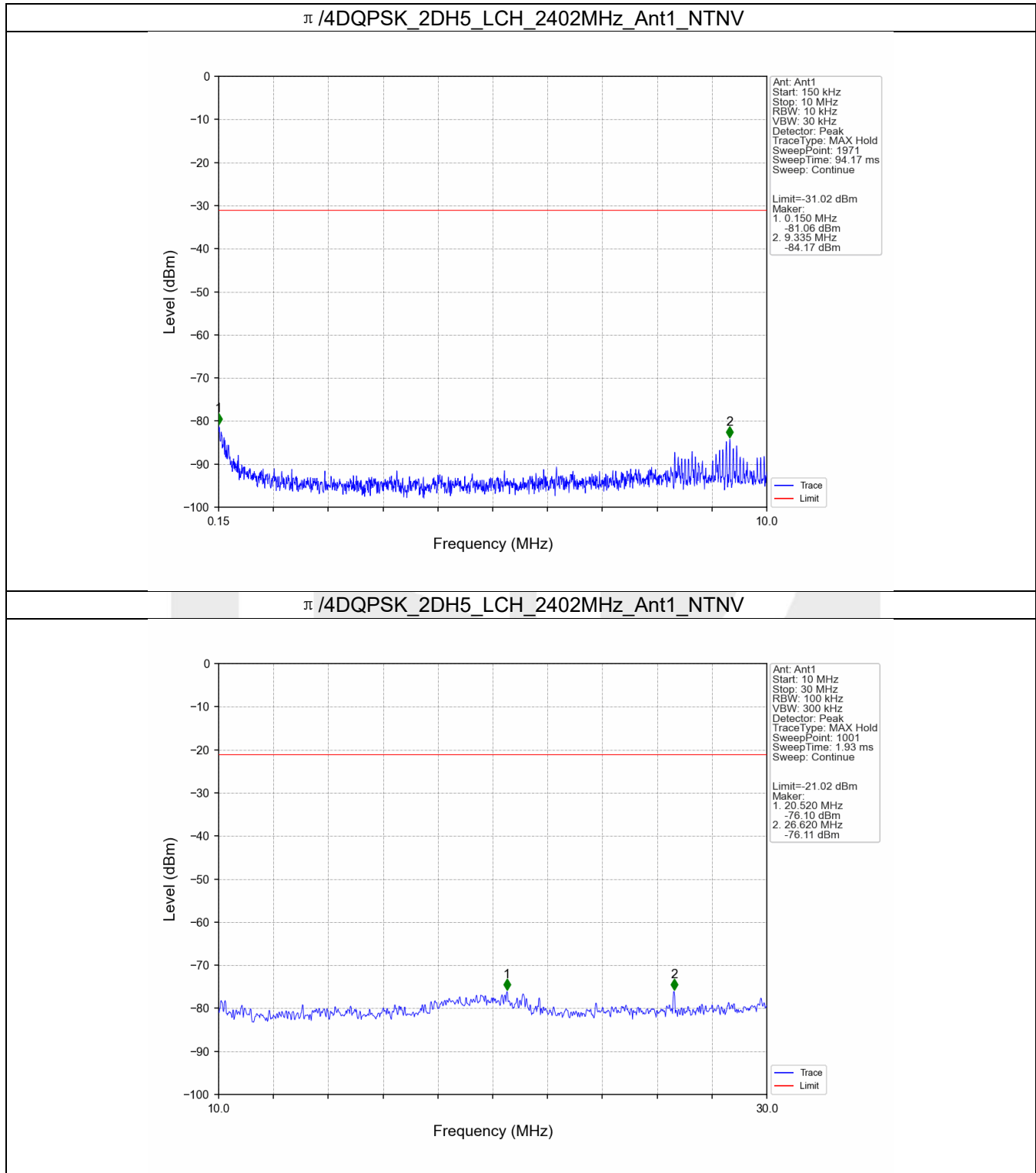


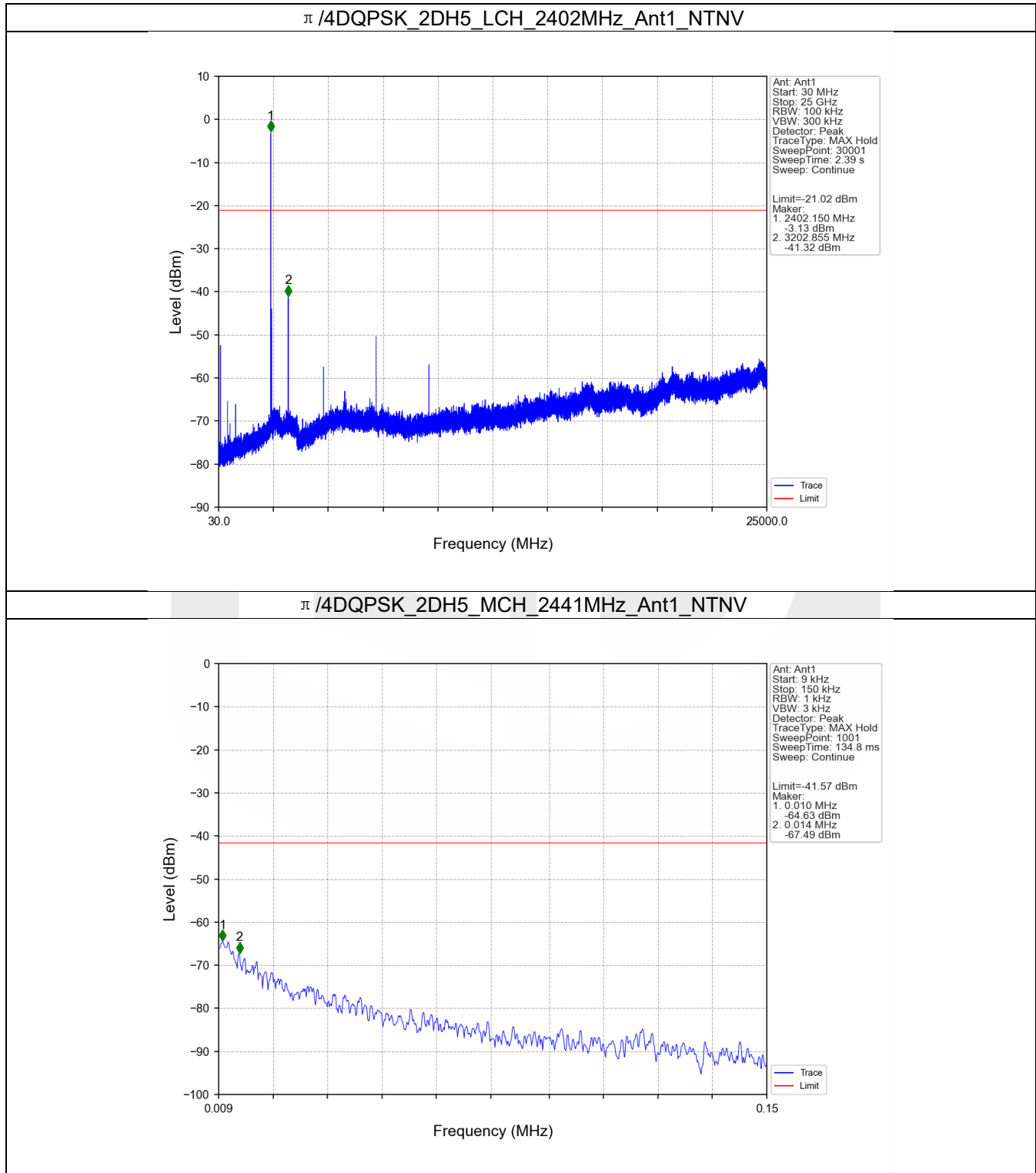


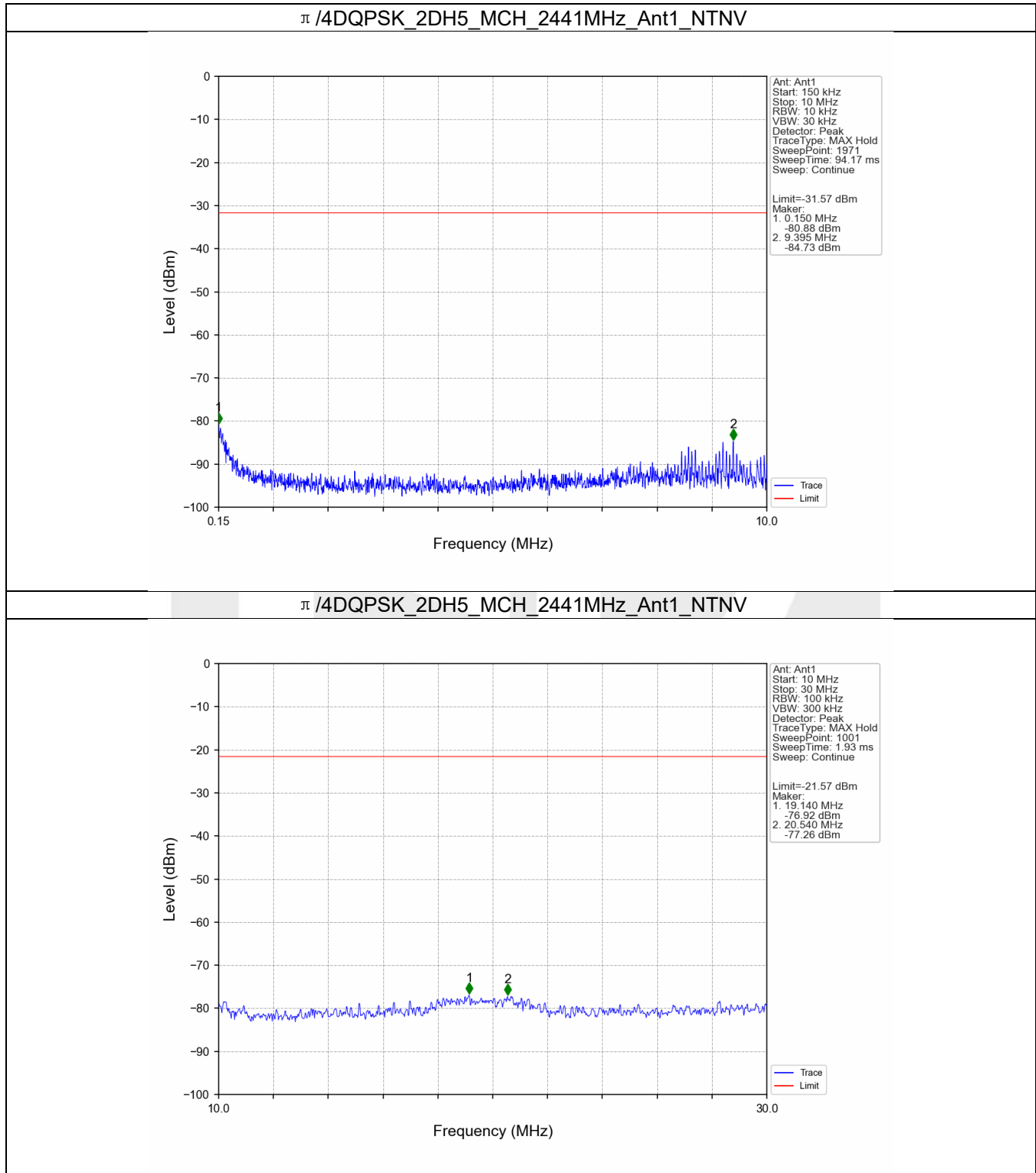


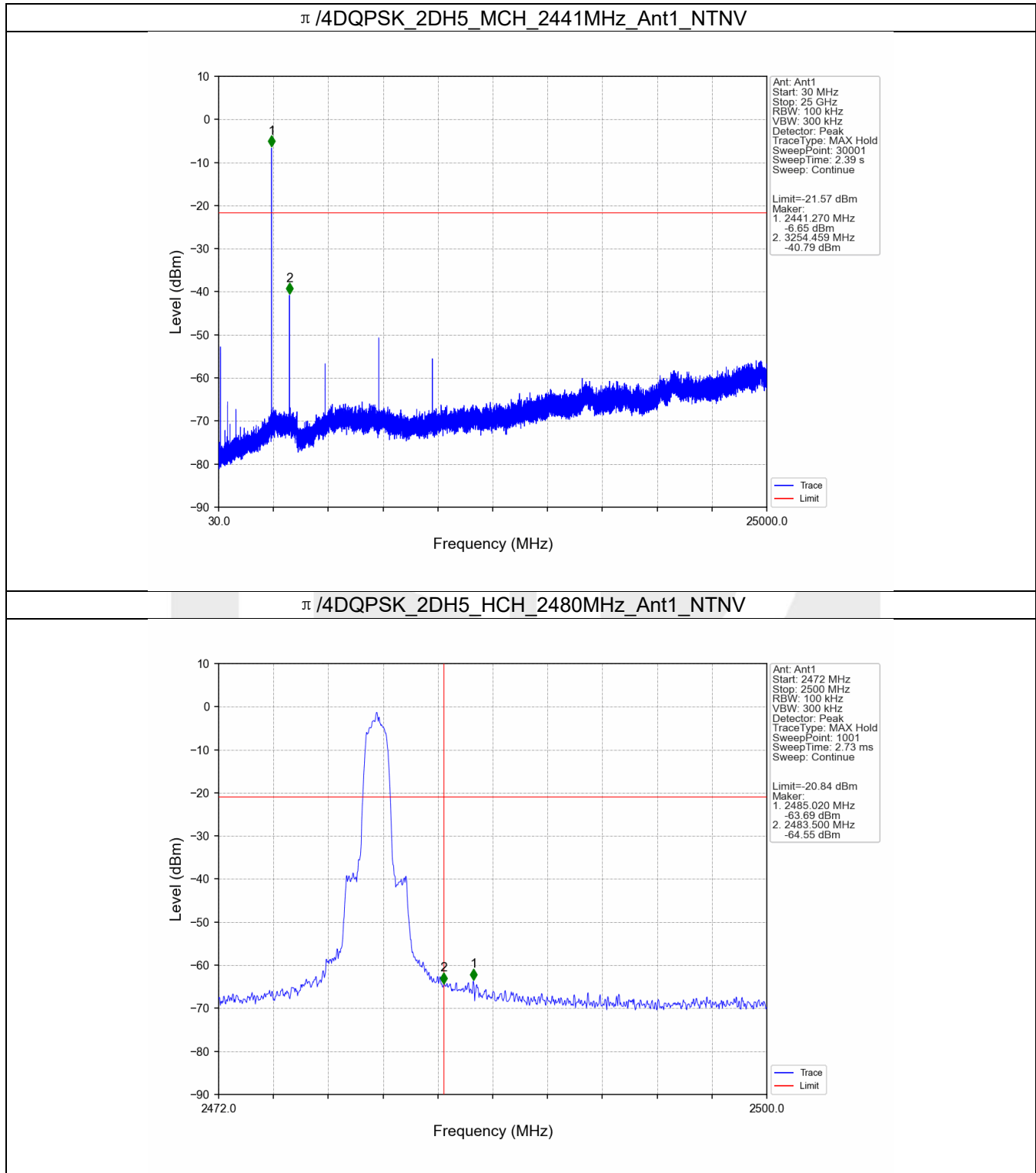


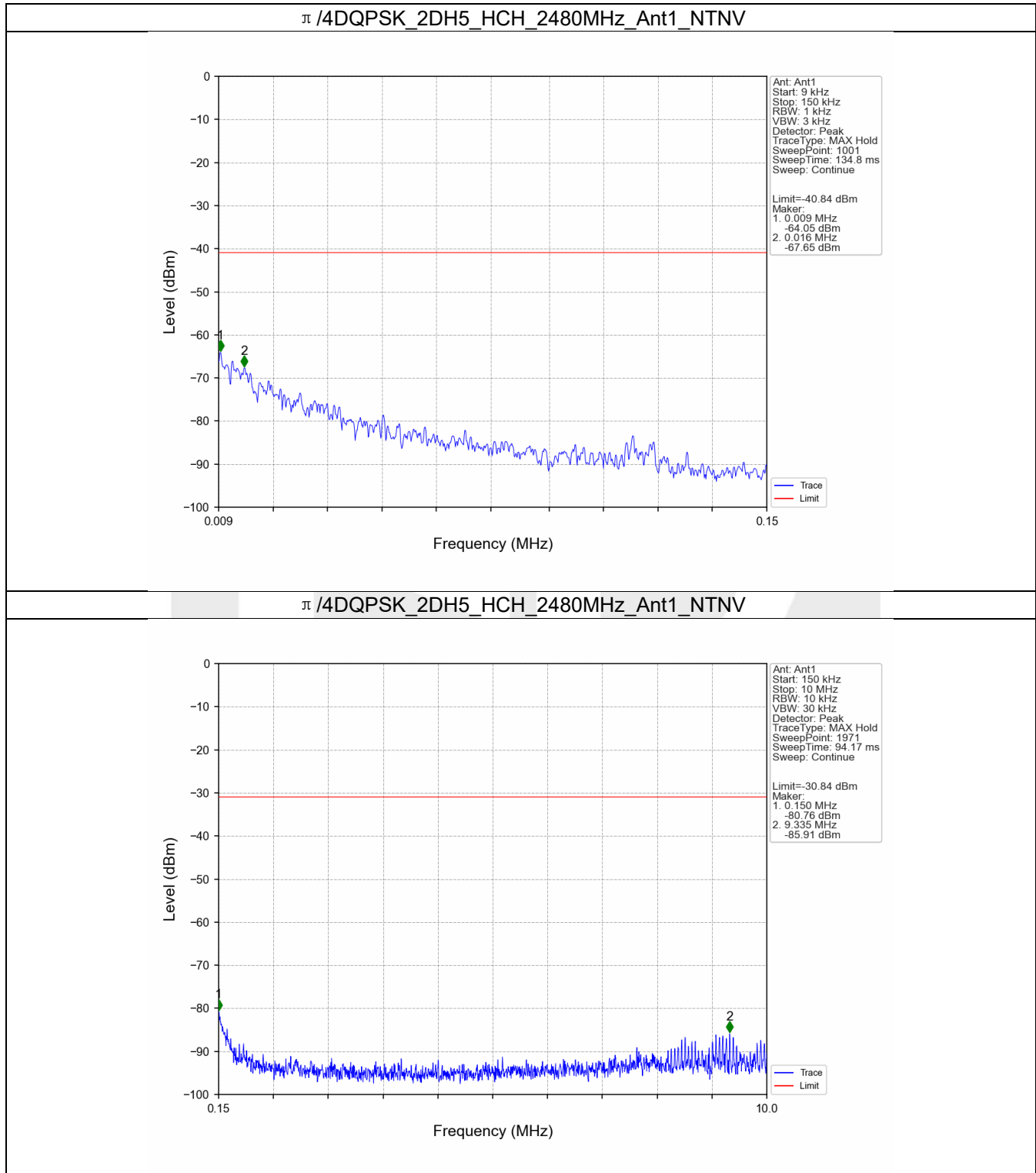


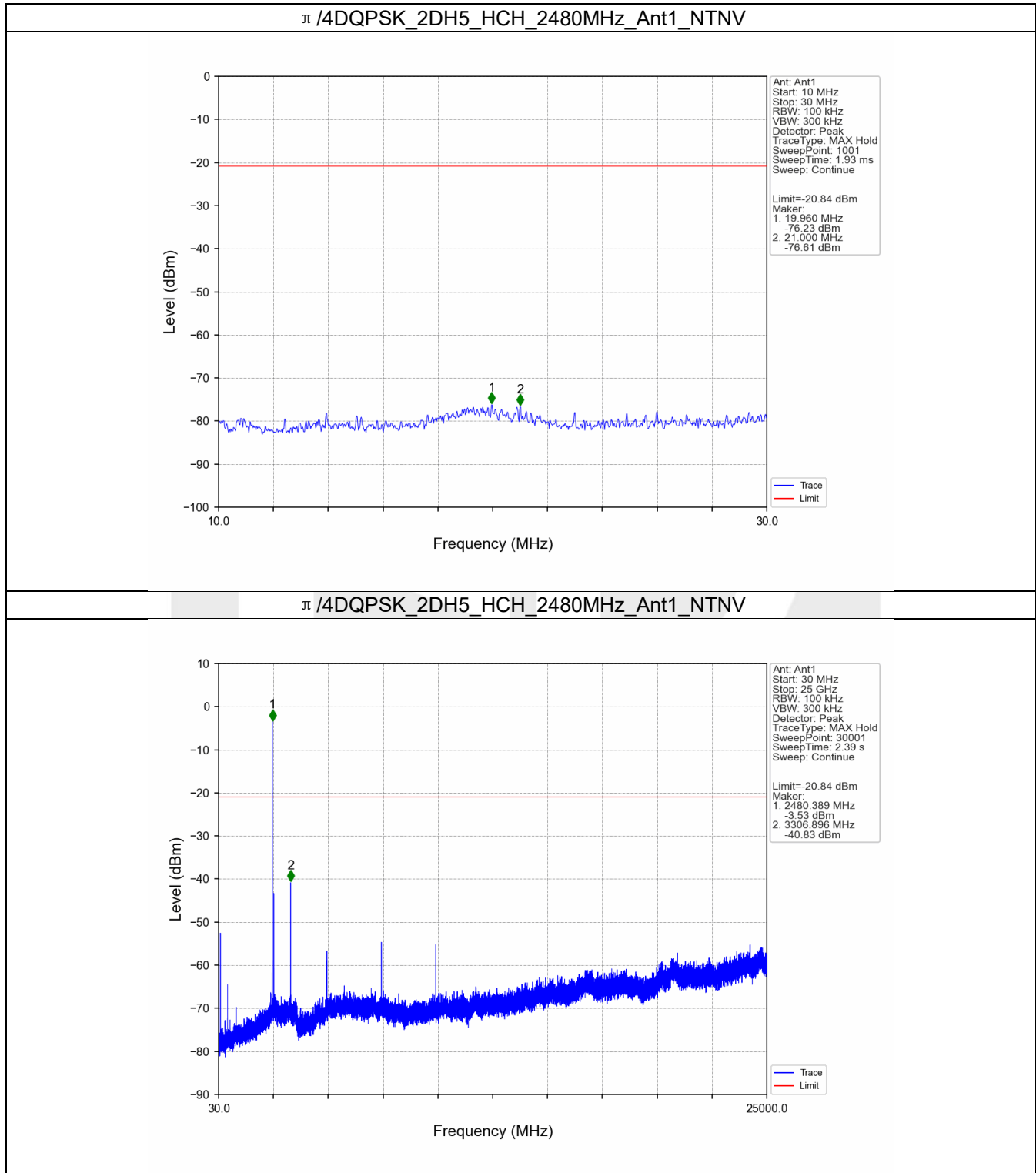


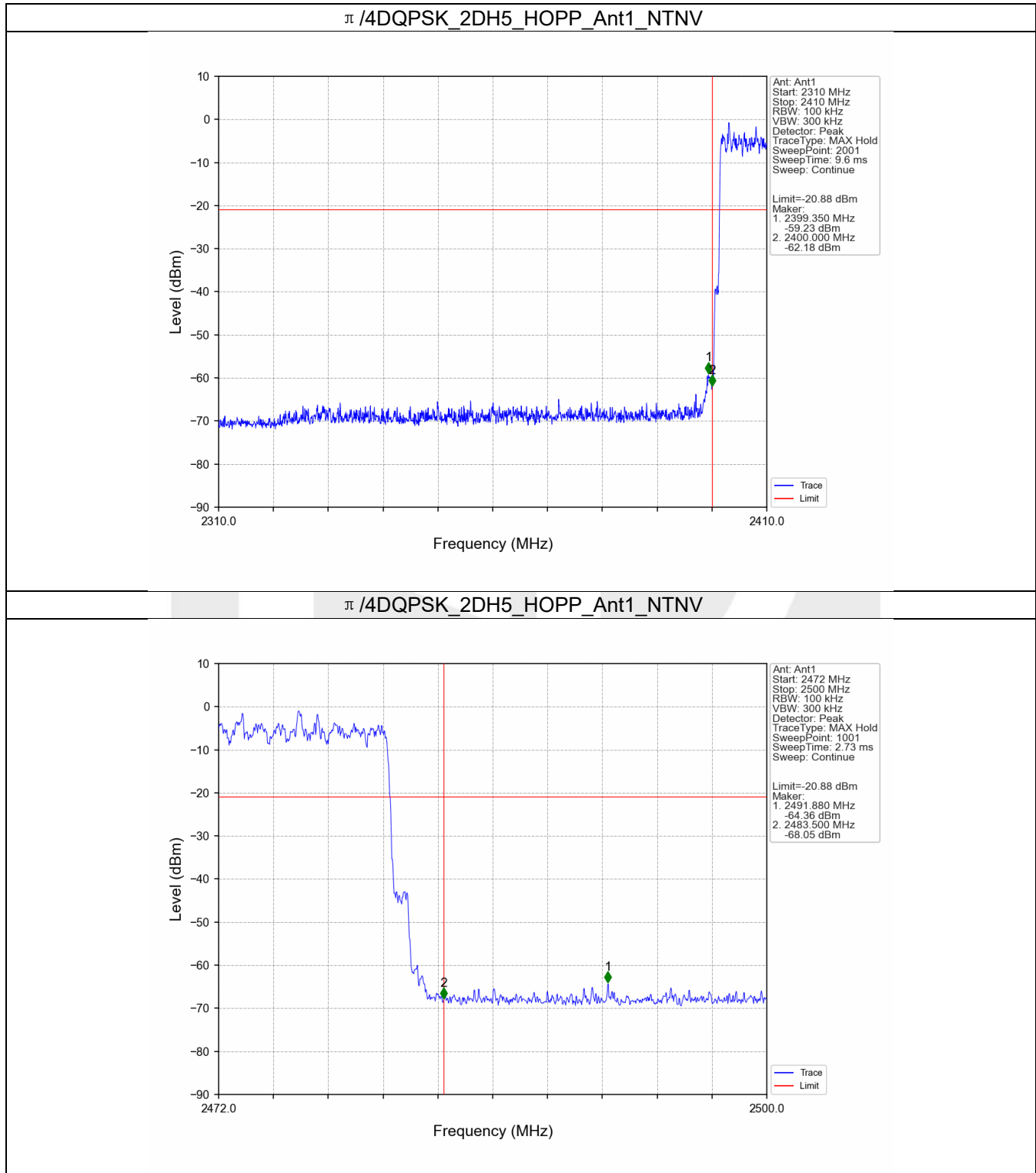


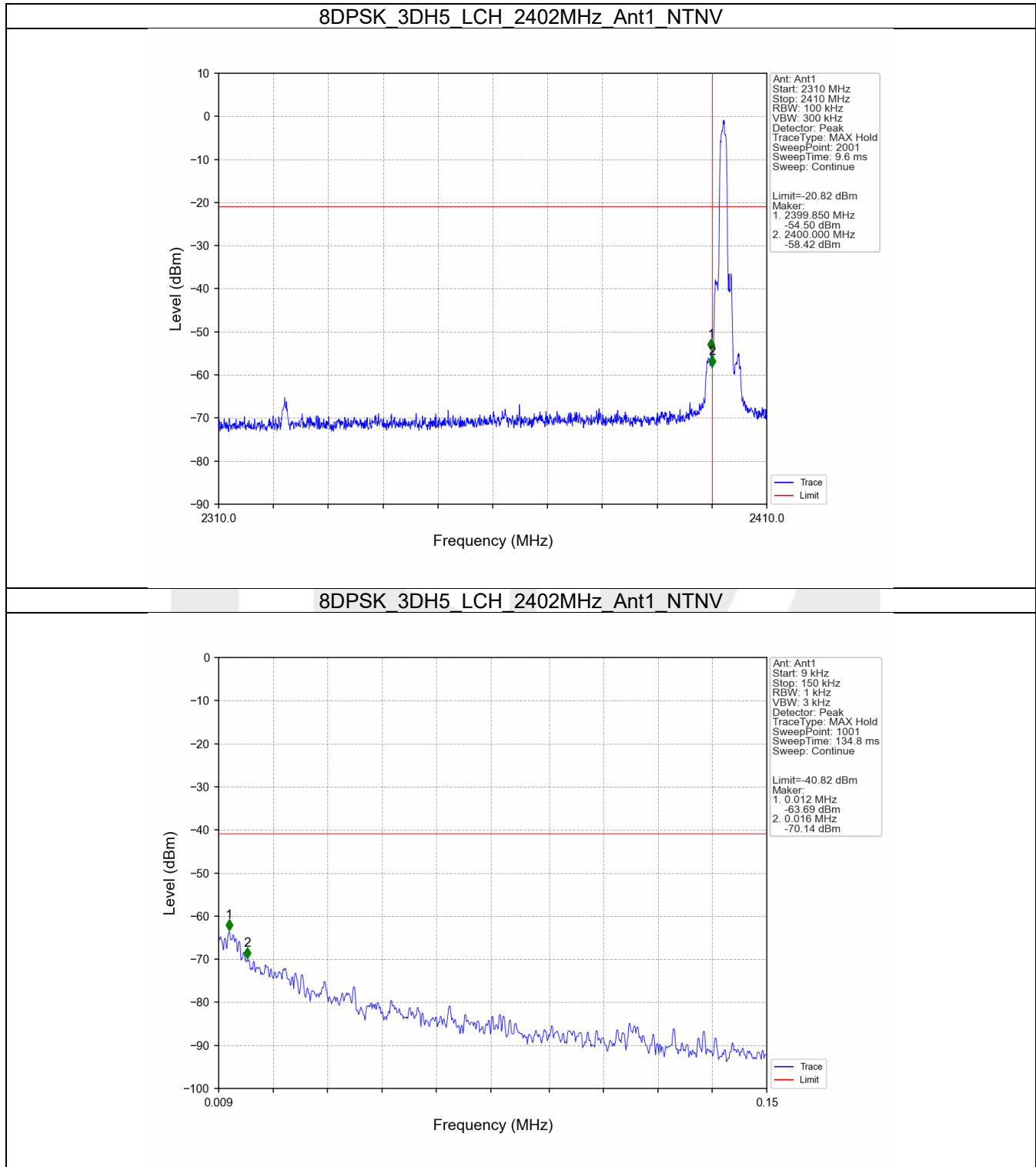


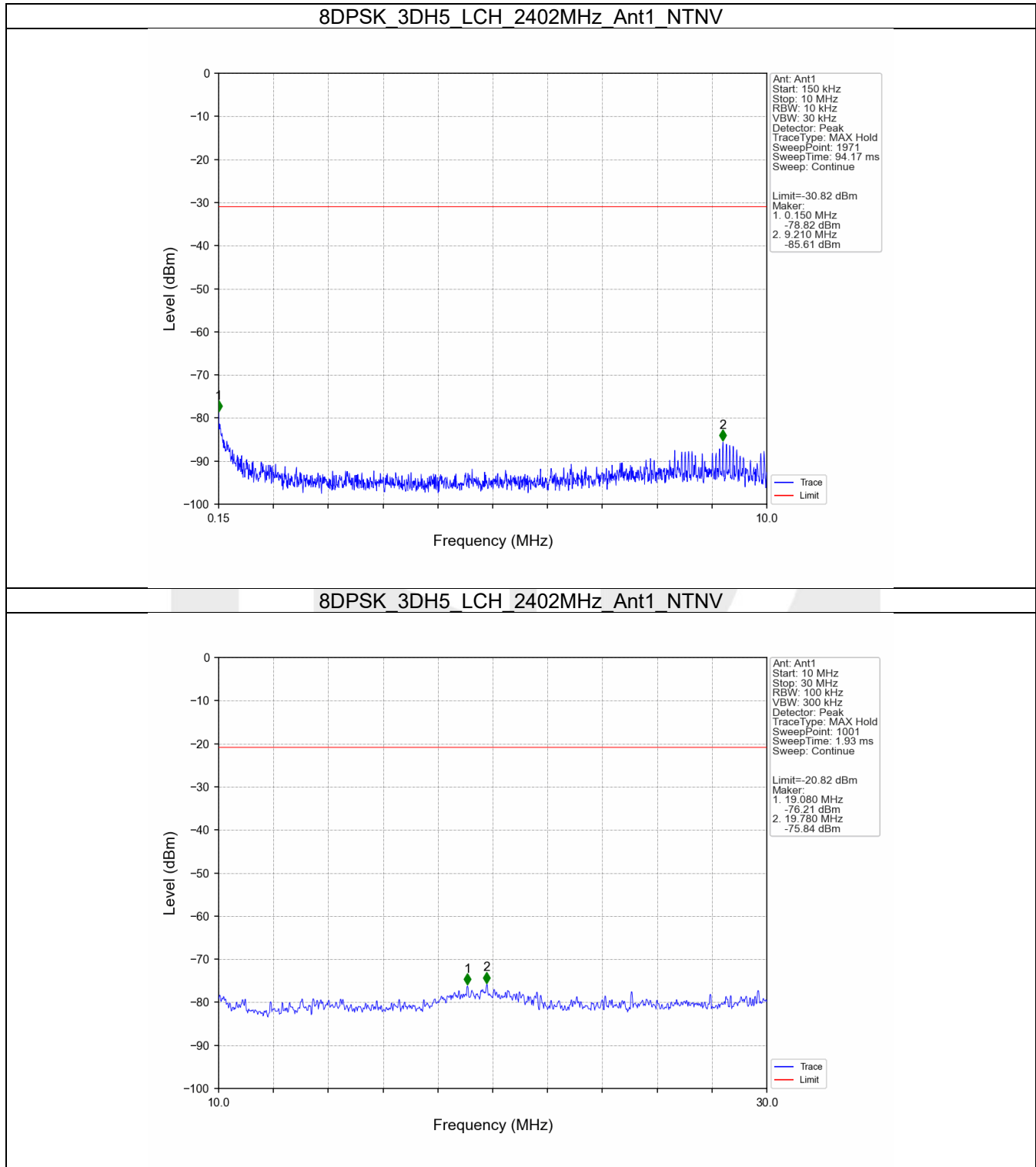


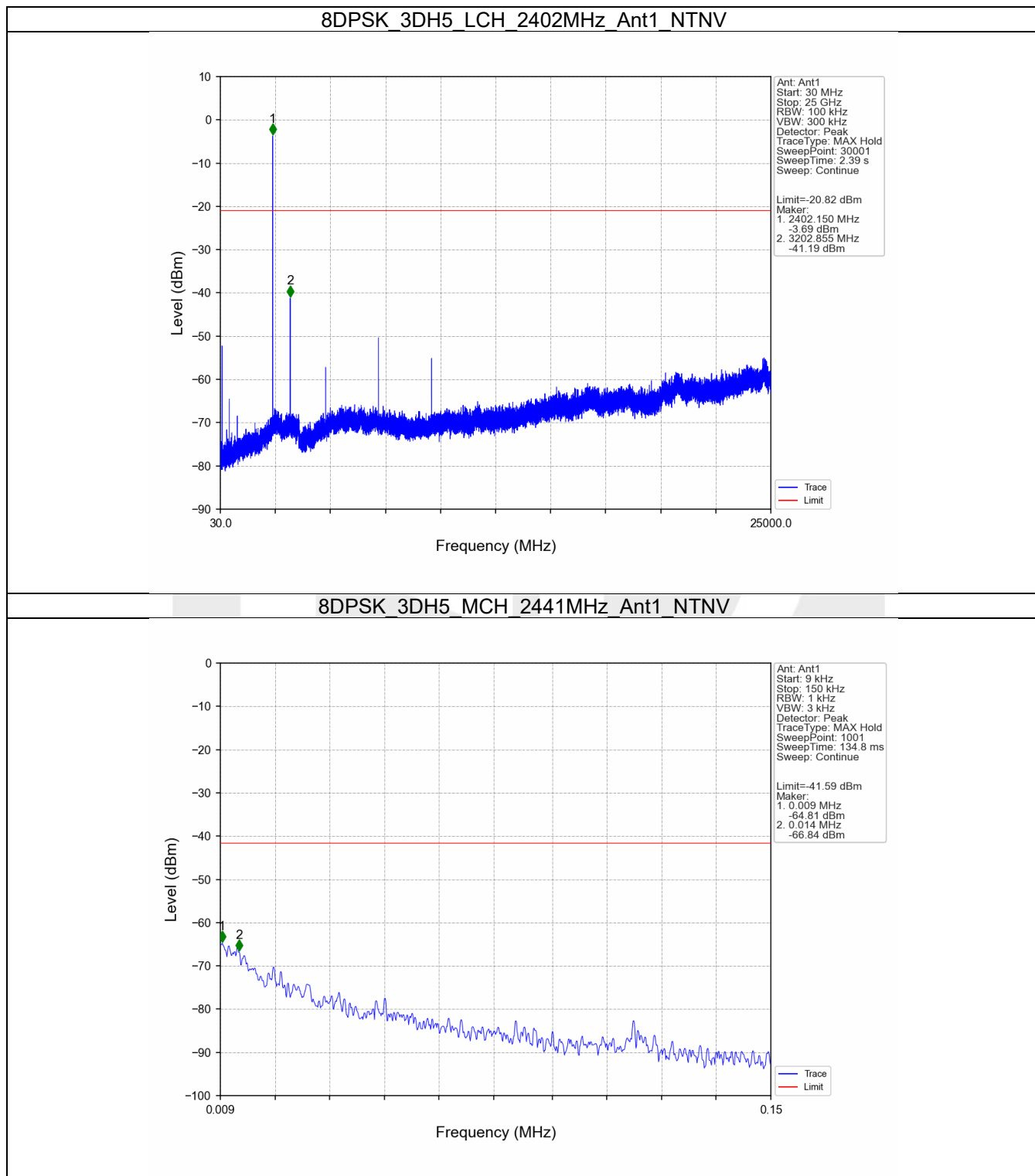


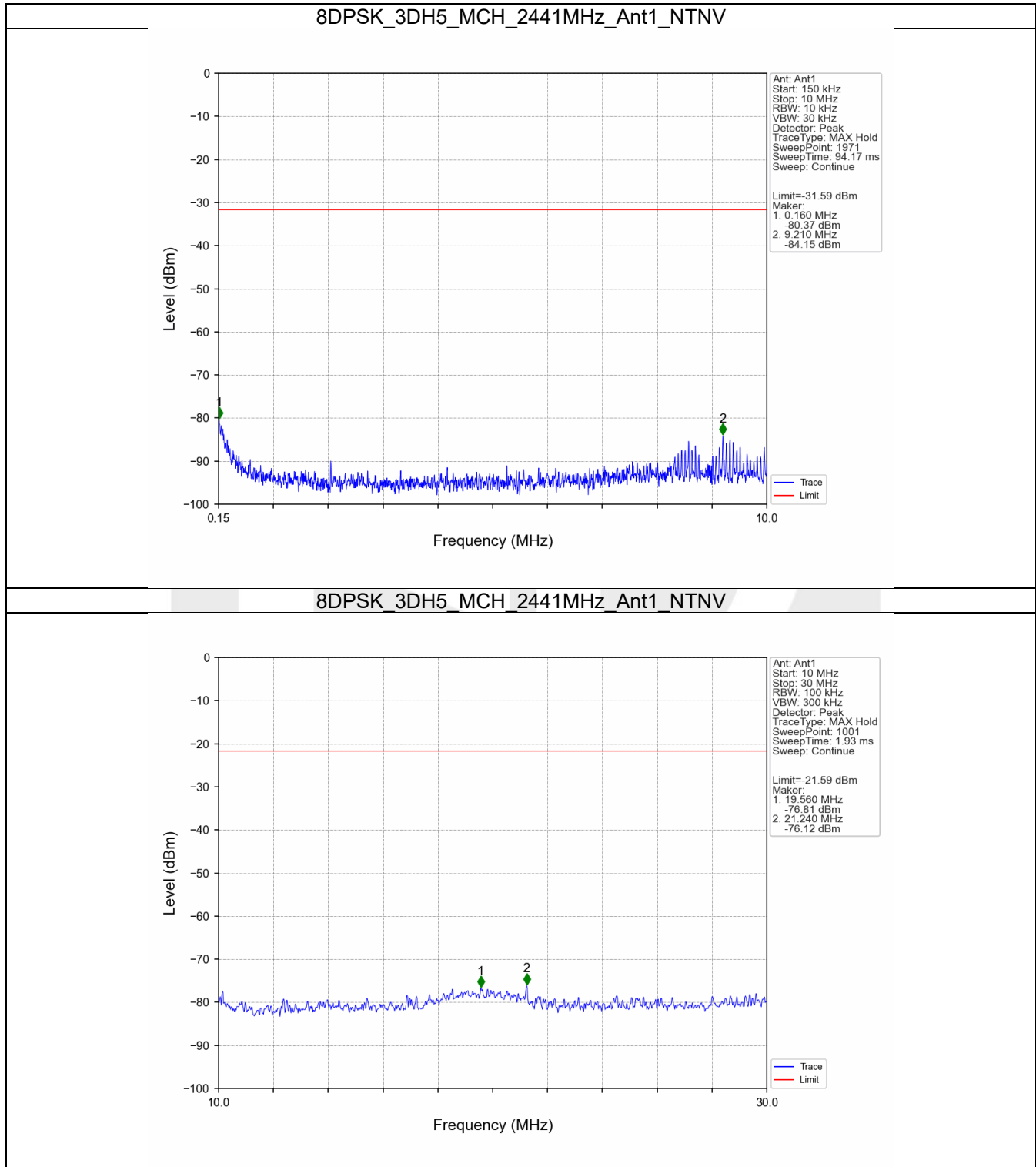


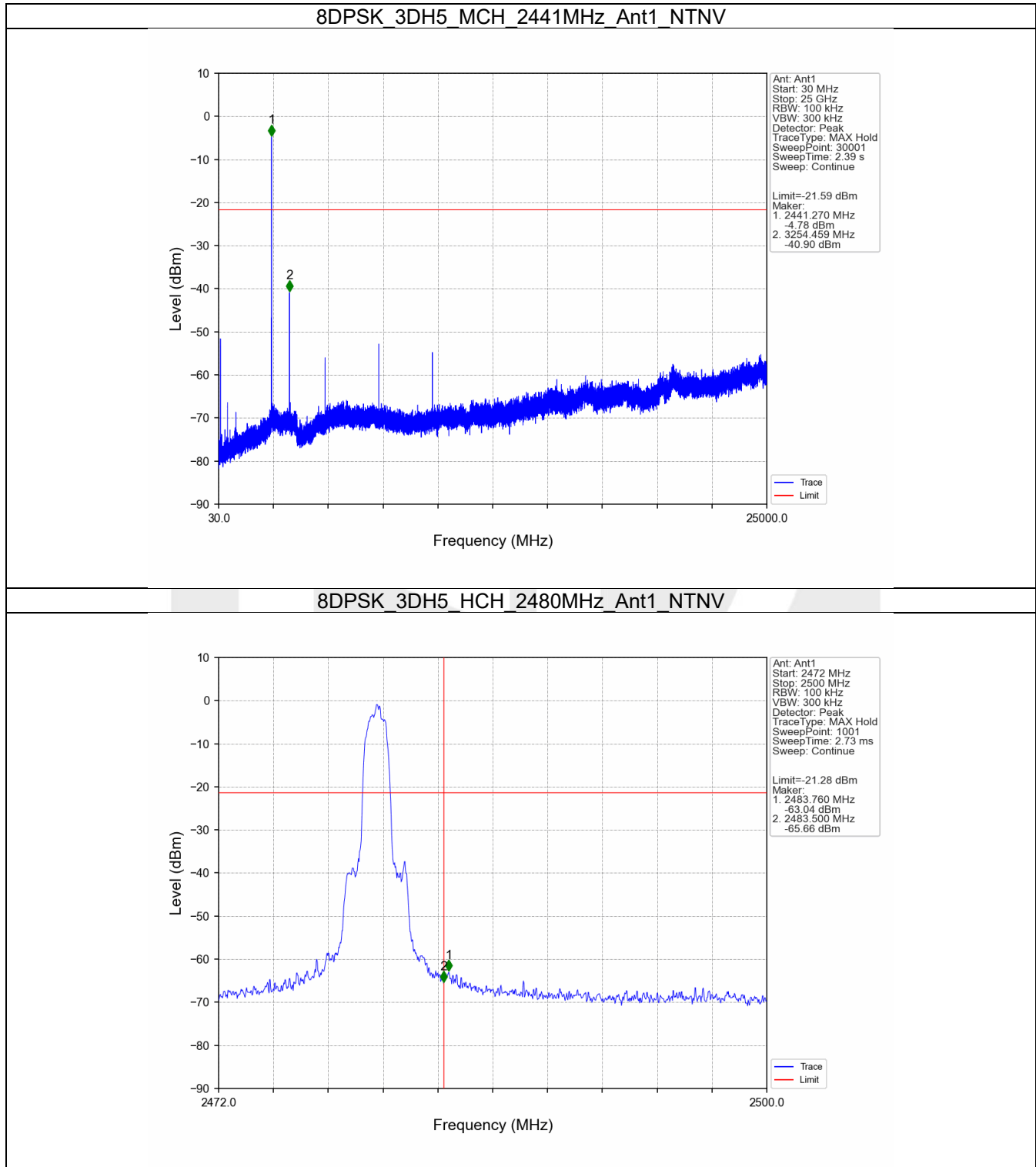


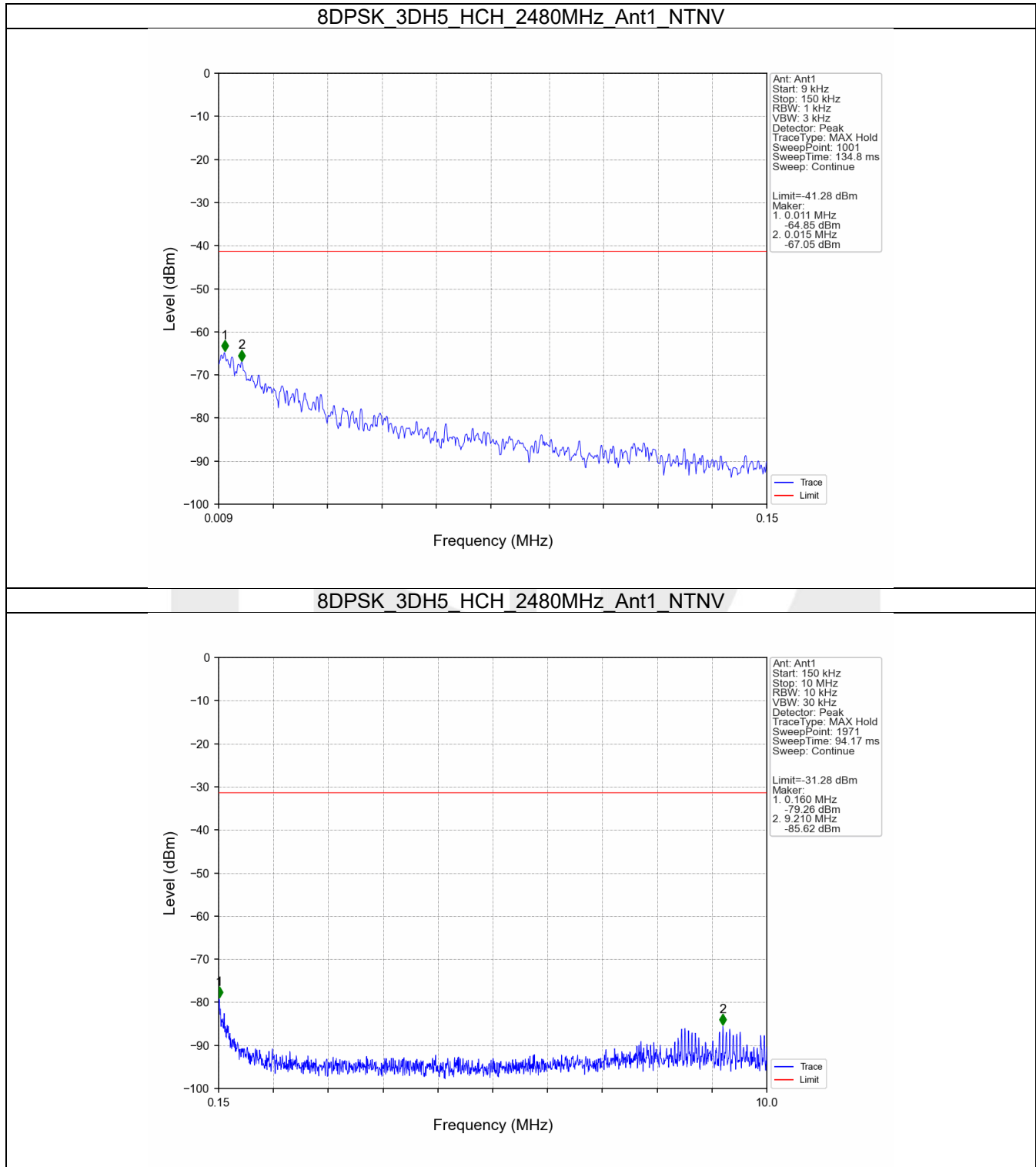


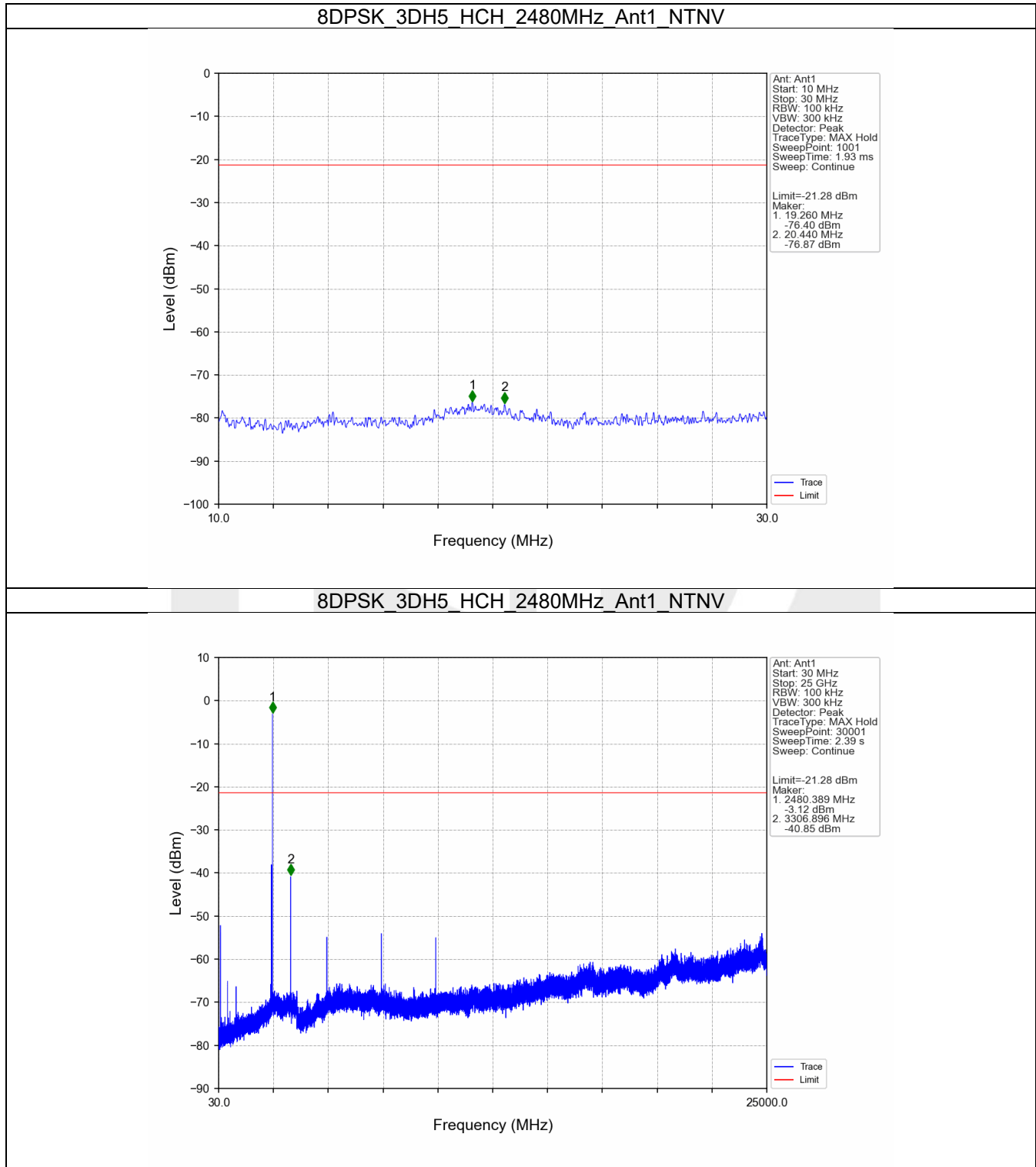


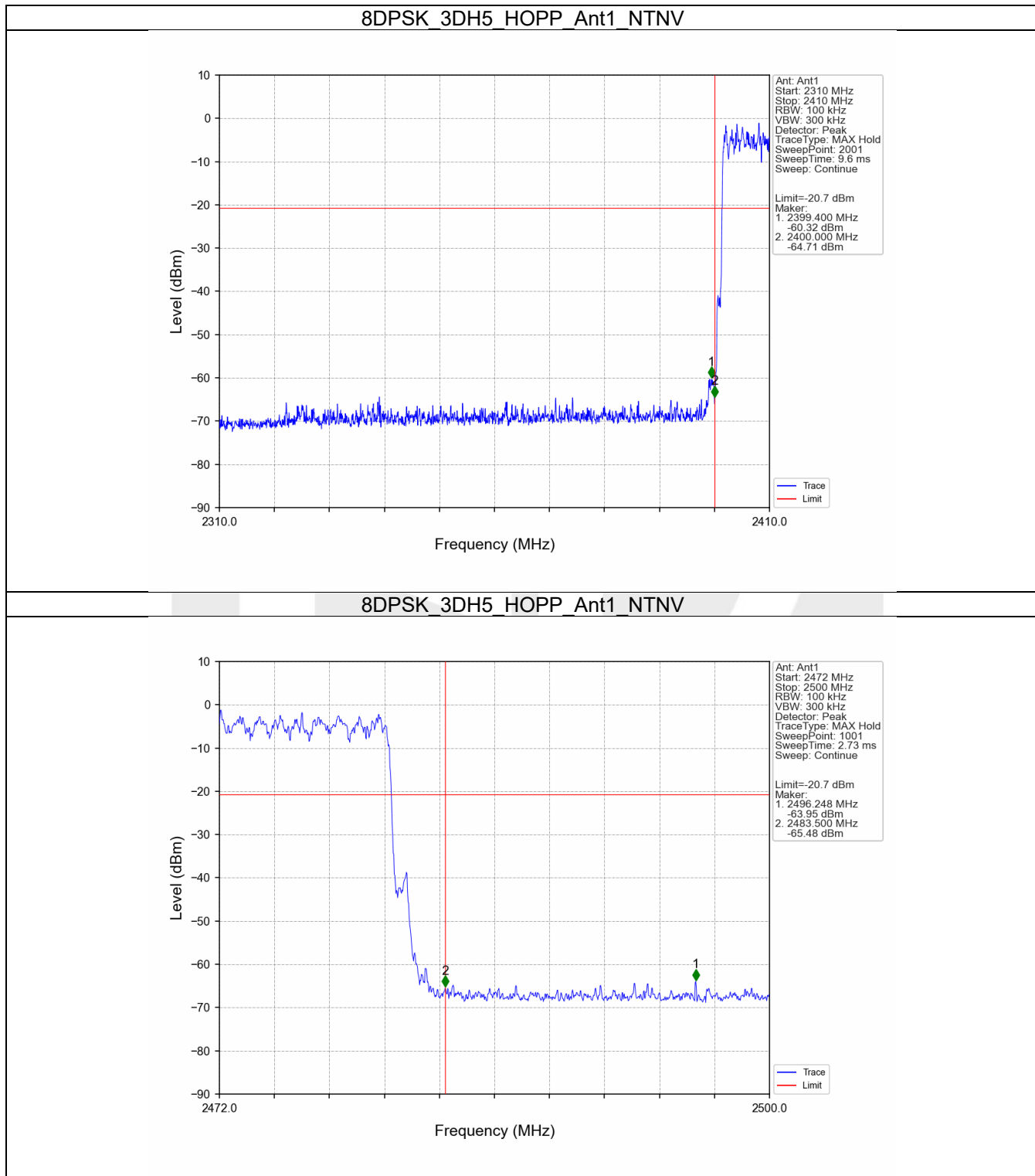












----- End of Report -----