

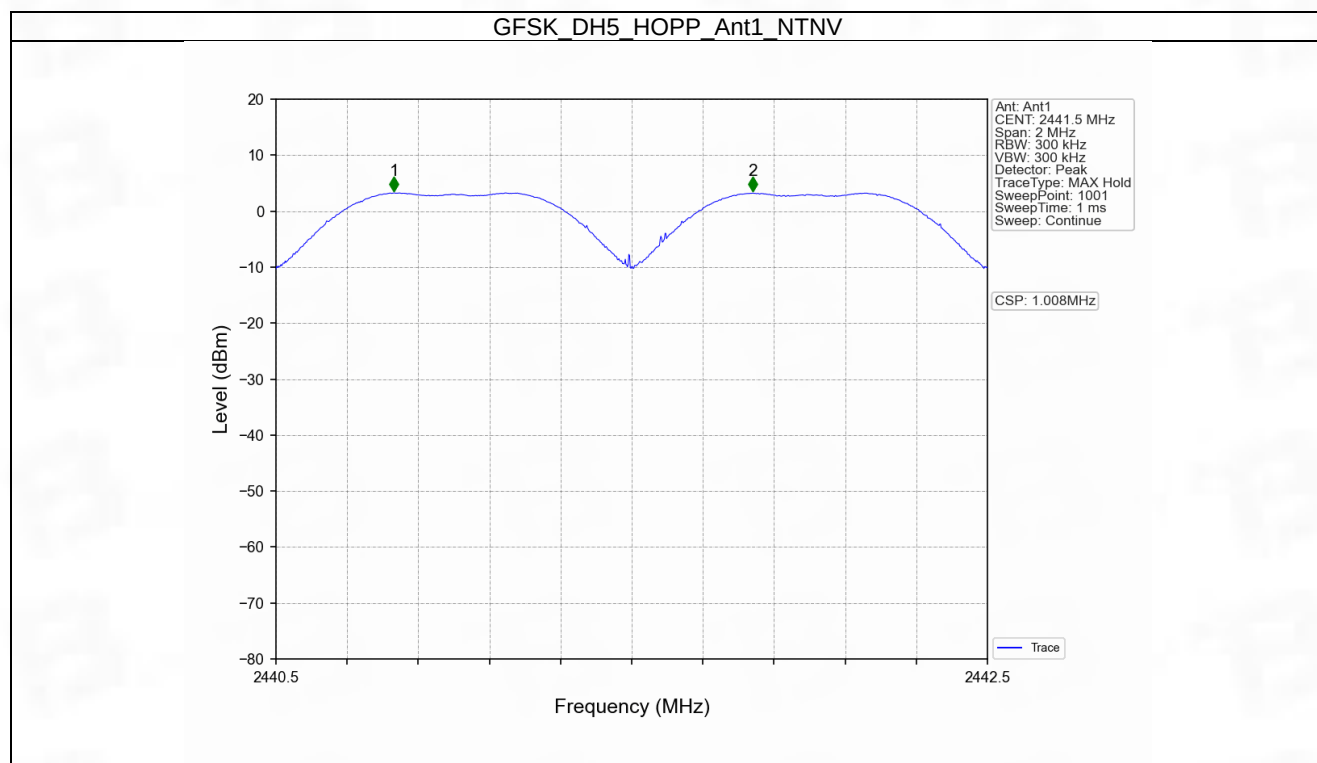
3. Carrier Frequency Separation

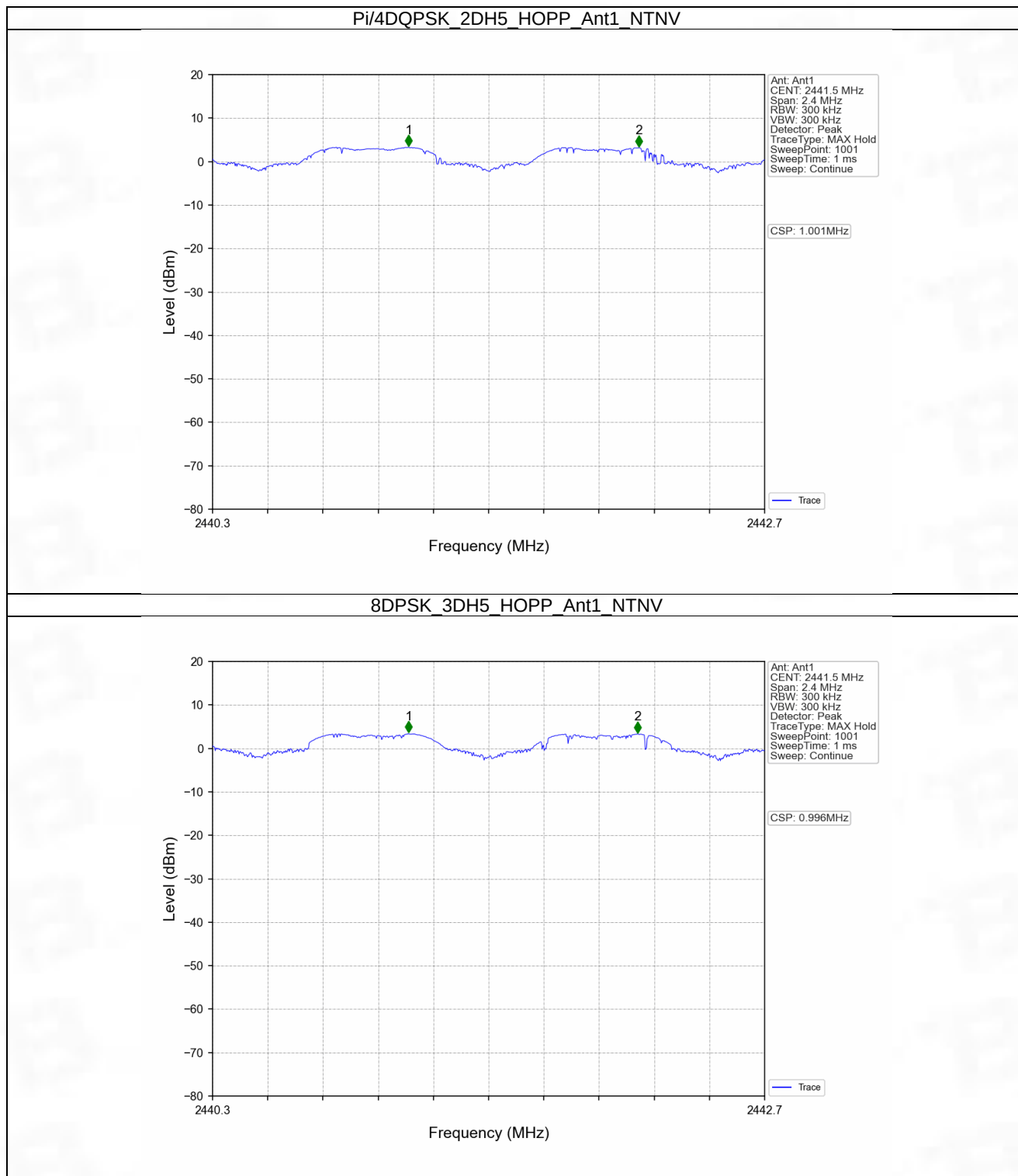
3.1 Ant1

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	1.008	1.024	≥ 0.683	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.315	≥ 0.877	Pass
8DPSK	SISO	HOPP	3DH5	0.996	1.323	≥ 0.882	Pass

3.1.2 Test Graph





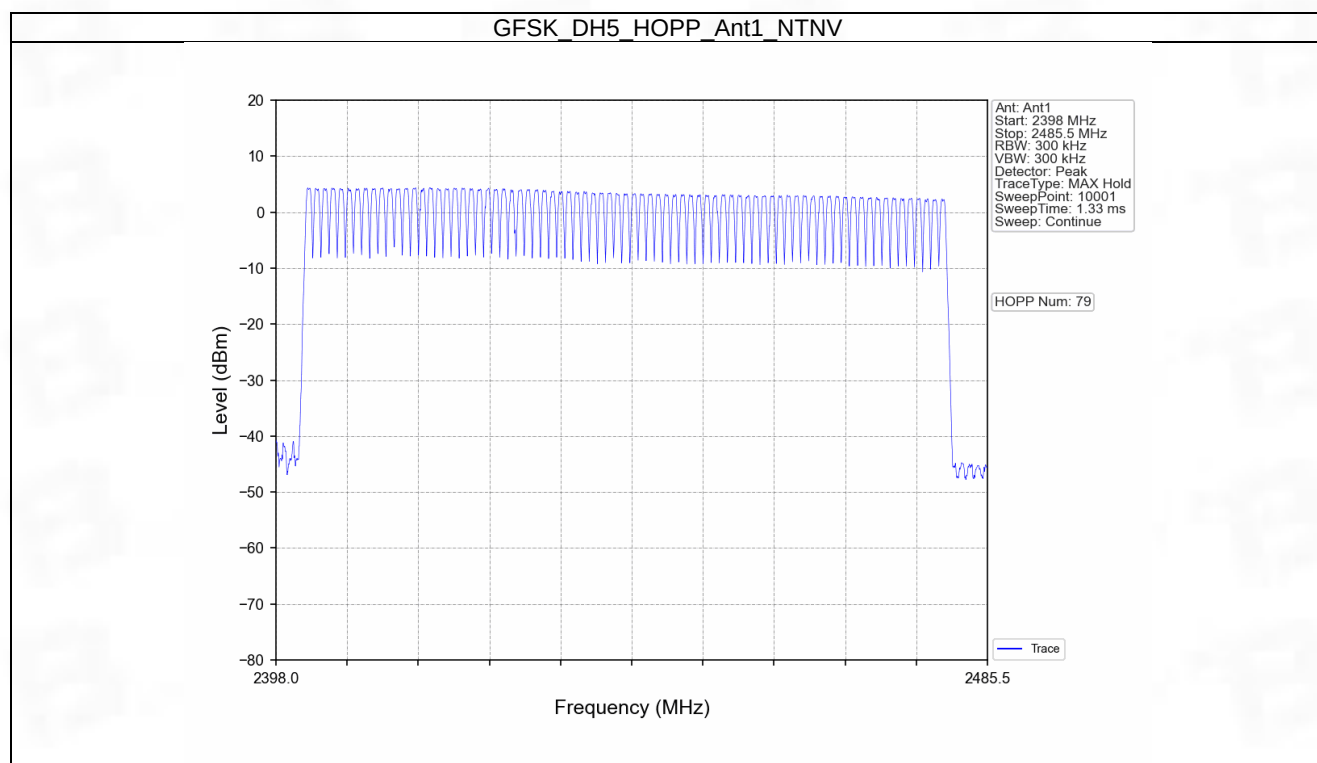
4. Number of Hopping Frequencies

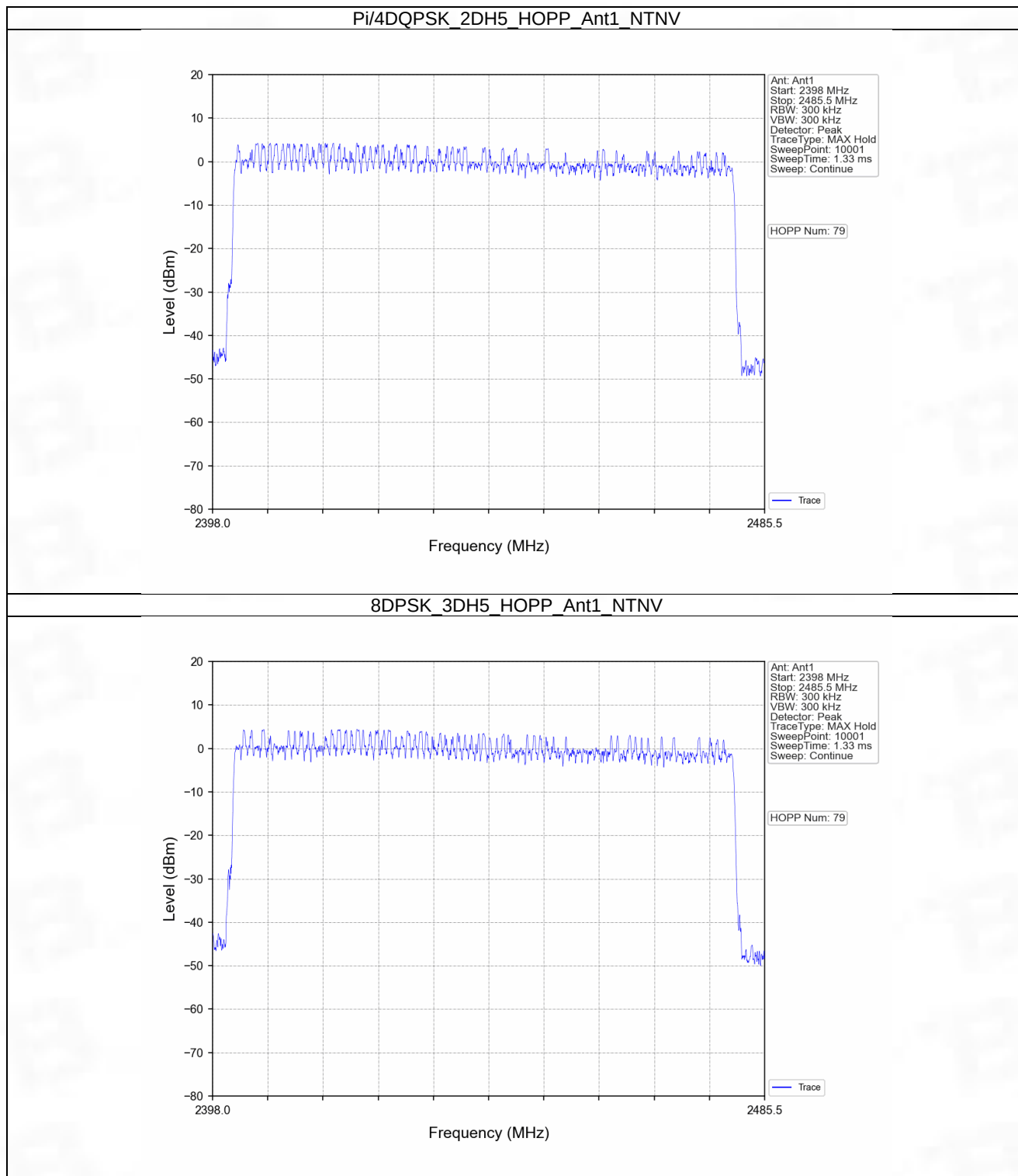
4.1 HoppNum

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

4.1.2 Test Graph





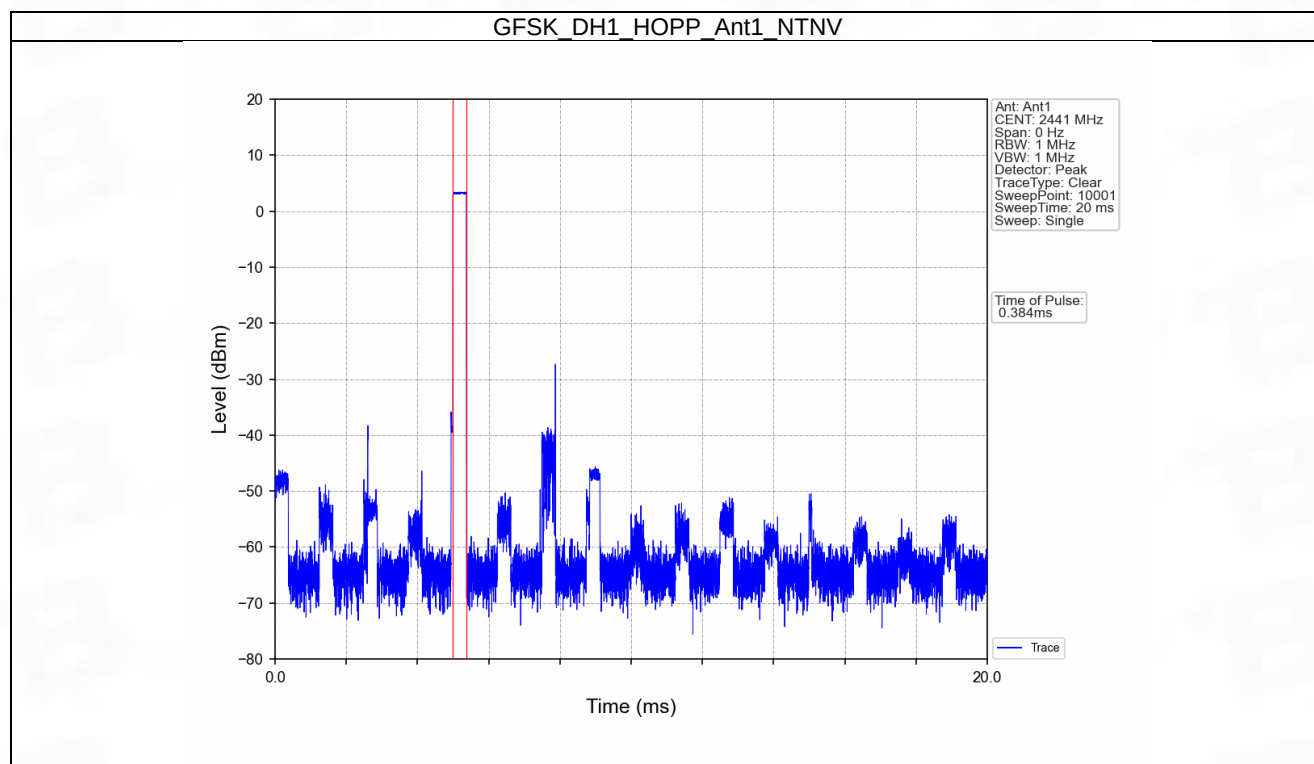
5. Time of Occupancy (Dwell Time)

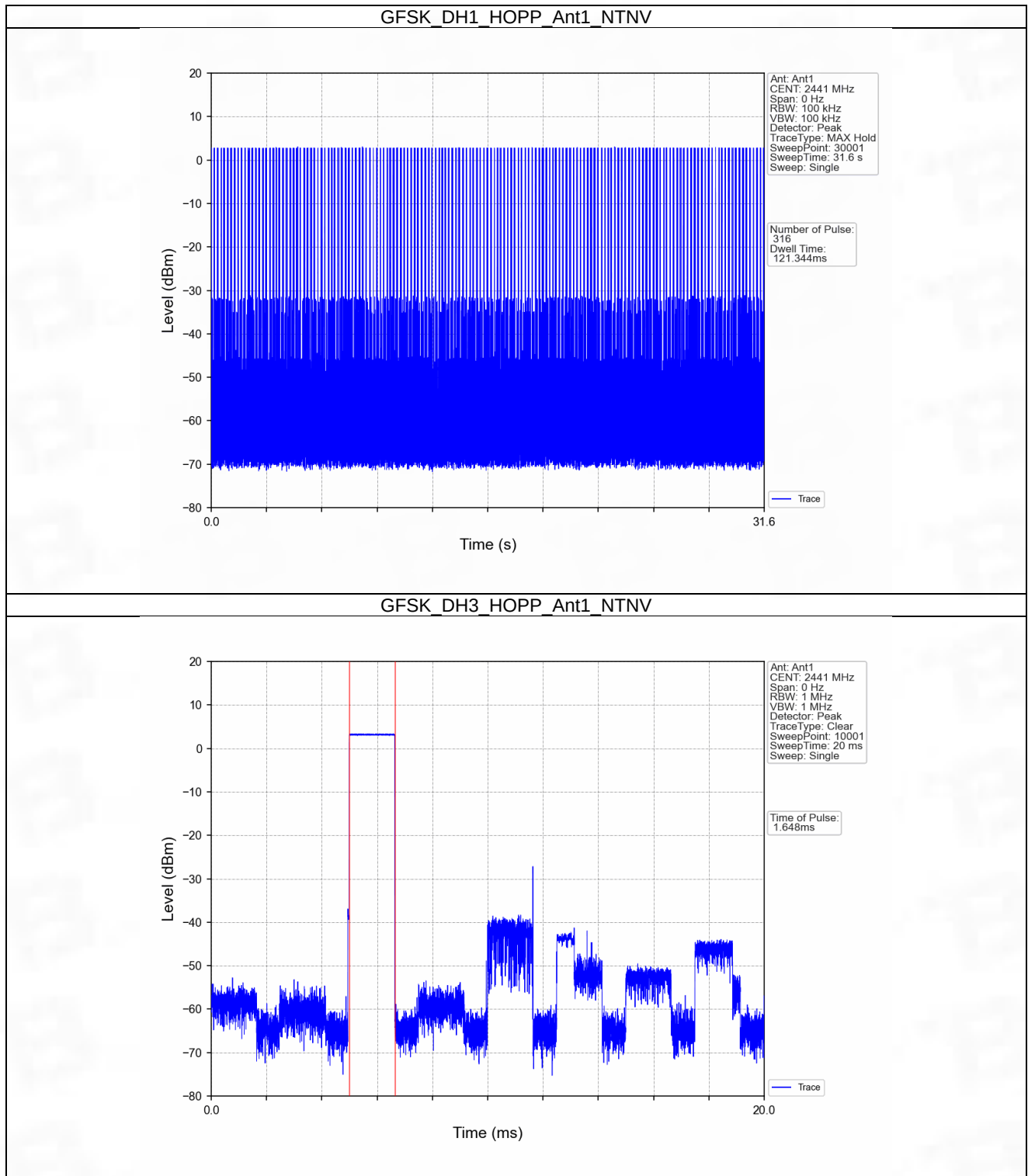
5.1 Ant1

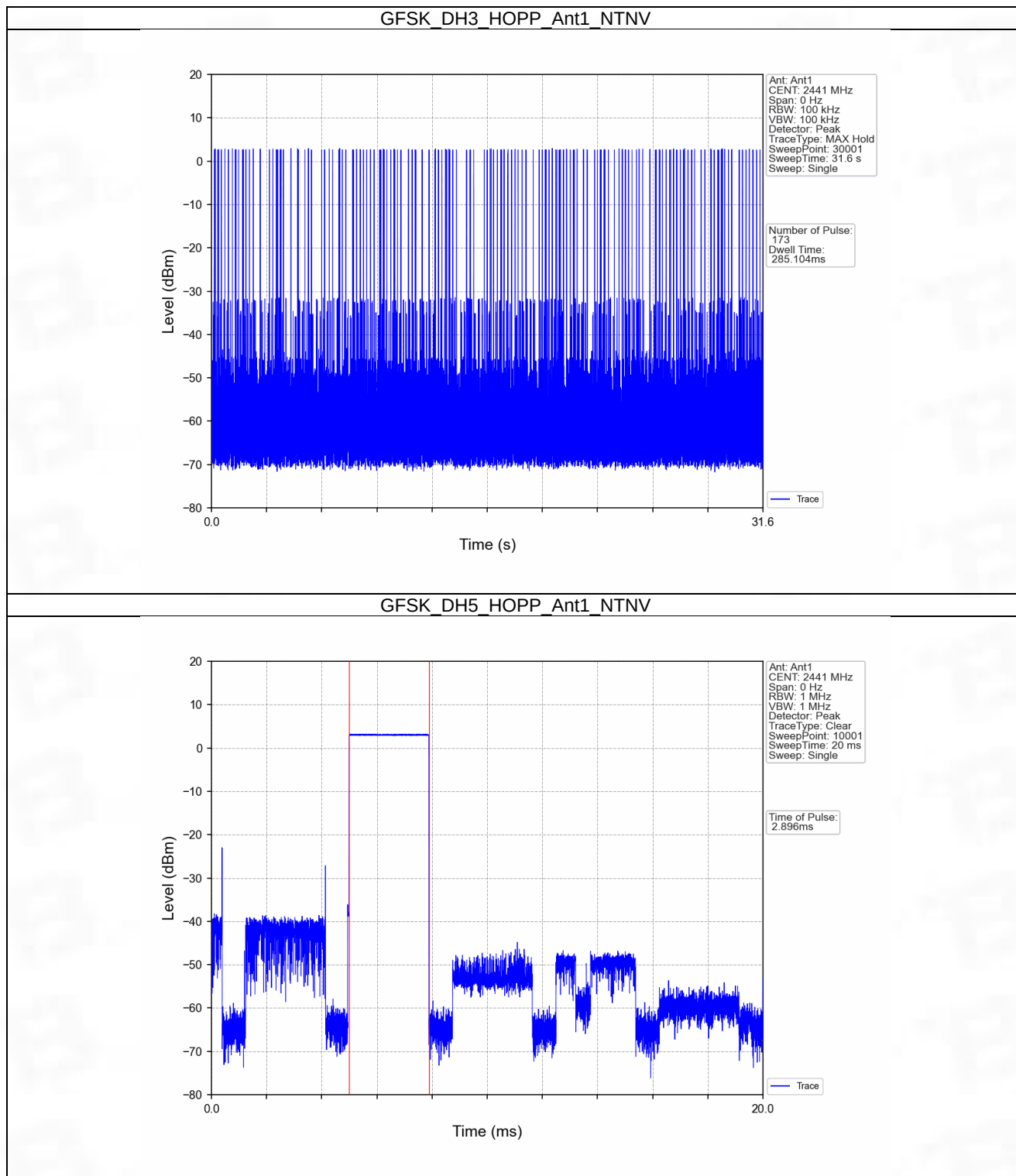
5.1.1 Test Result

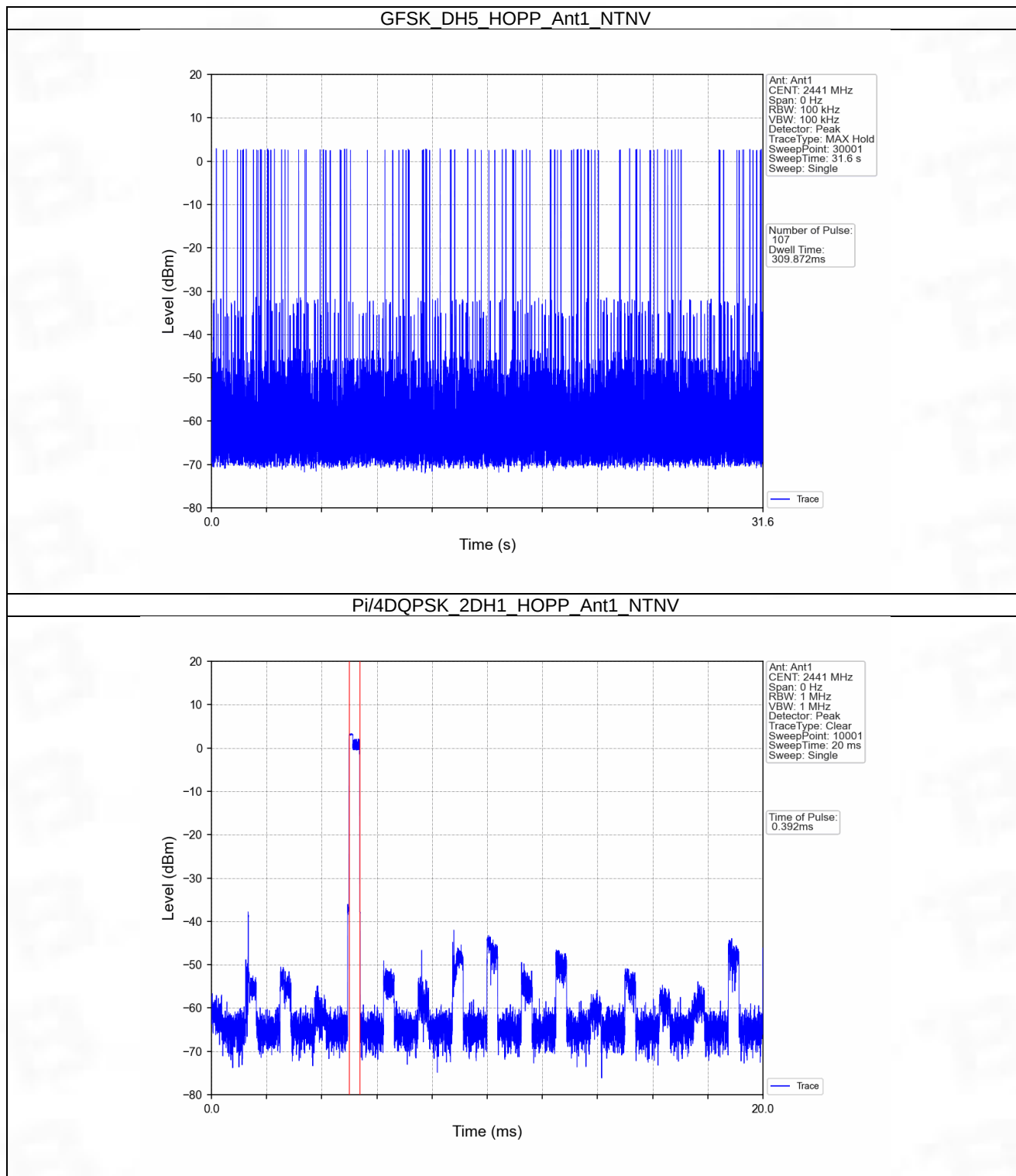
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	316	121.344	<=400	Pass
			DH3	1.648	31.600	173	285.104	<=400	Pass
			DH5	2.896	31.600	107	309.872	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	315	123.480	<=400	Pass
			2DH3	1.704	31.600	172	293.088	<=400	Pass
			2DH5	2.952	31.600	108	318.816	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	314	122.460	<=400	Pass
			3DH3	1.640	31.600	173	283.720	<=400	Pass
			3DH5	2.954	31.600	97	286.538	<=400	Pass

5.1.2 Test Graph

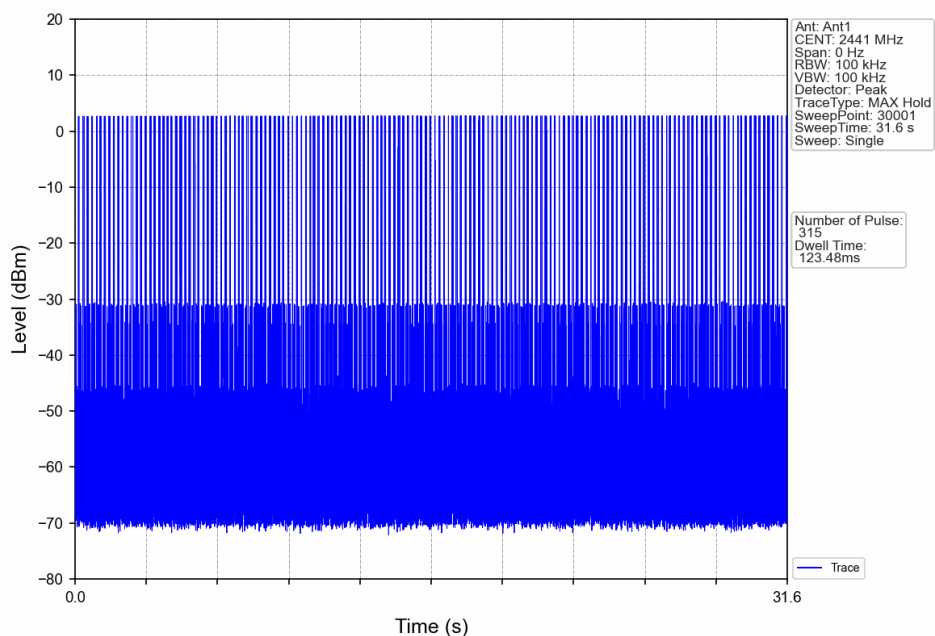




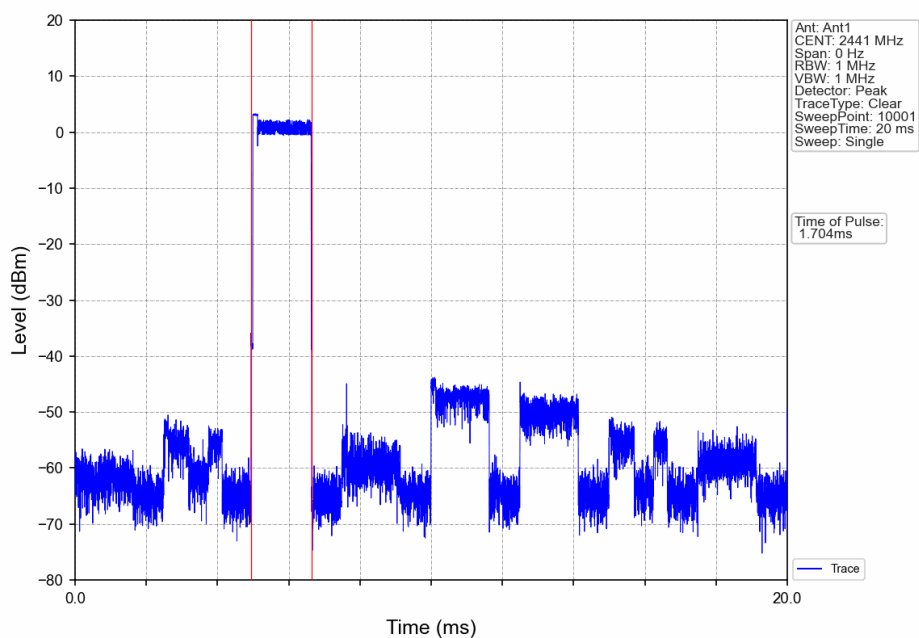




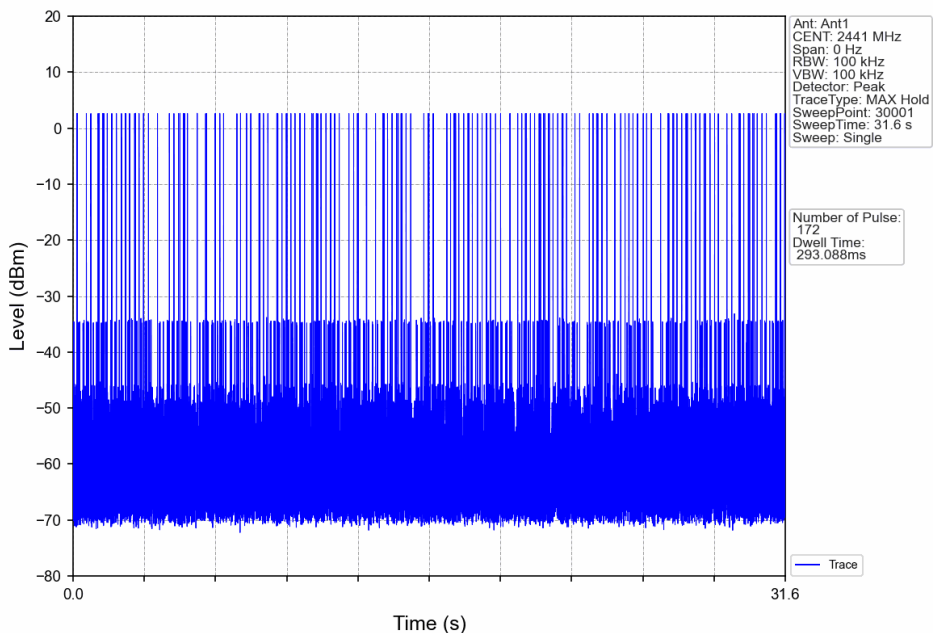
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



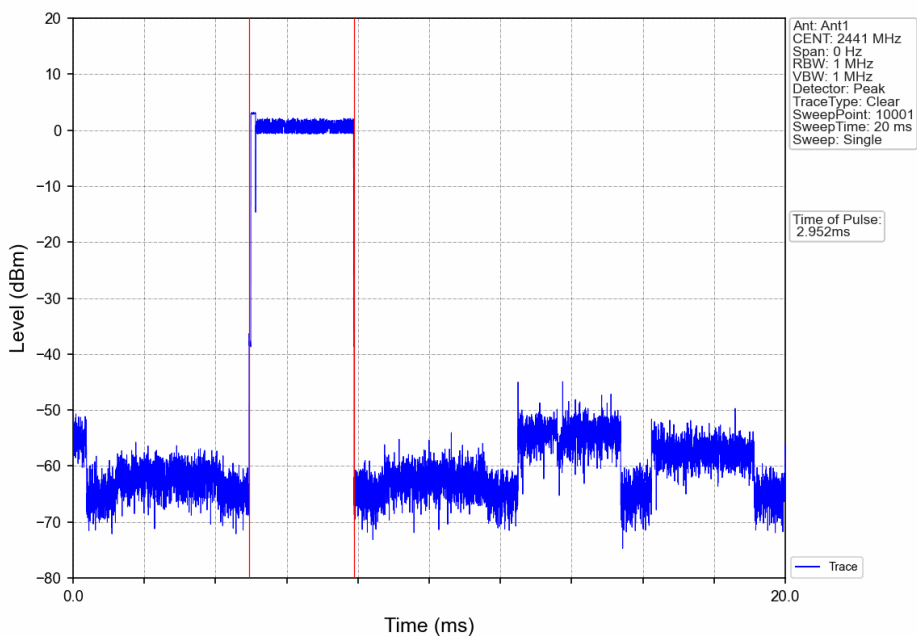
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



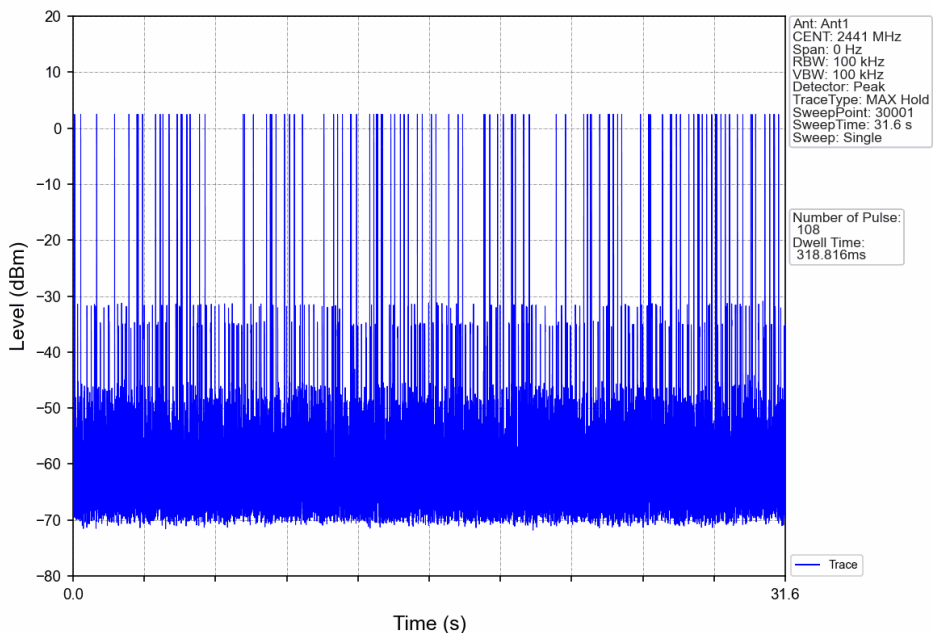
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



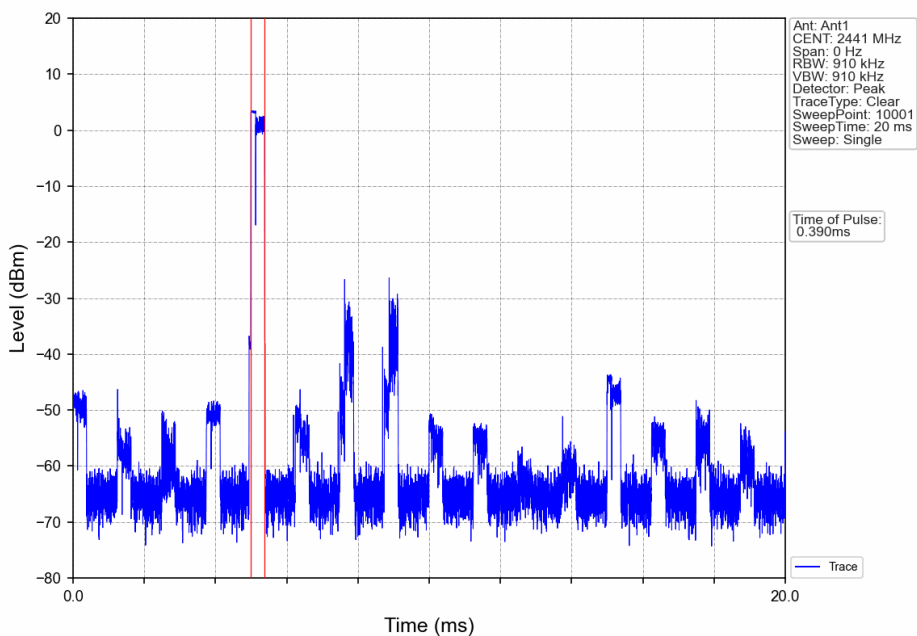
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

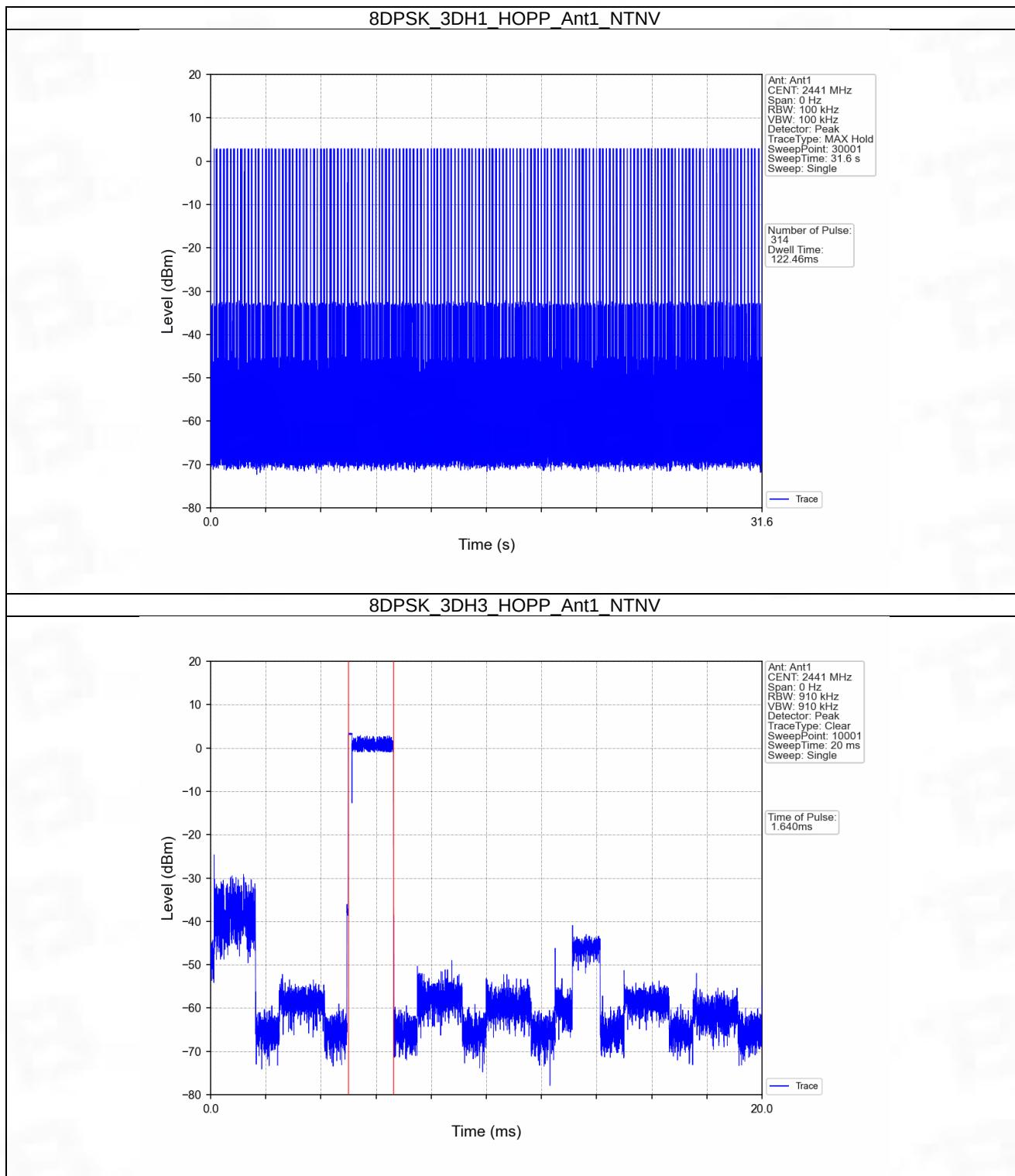


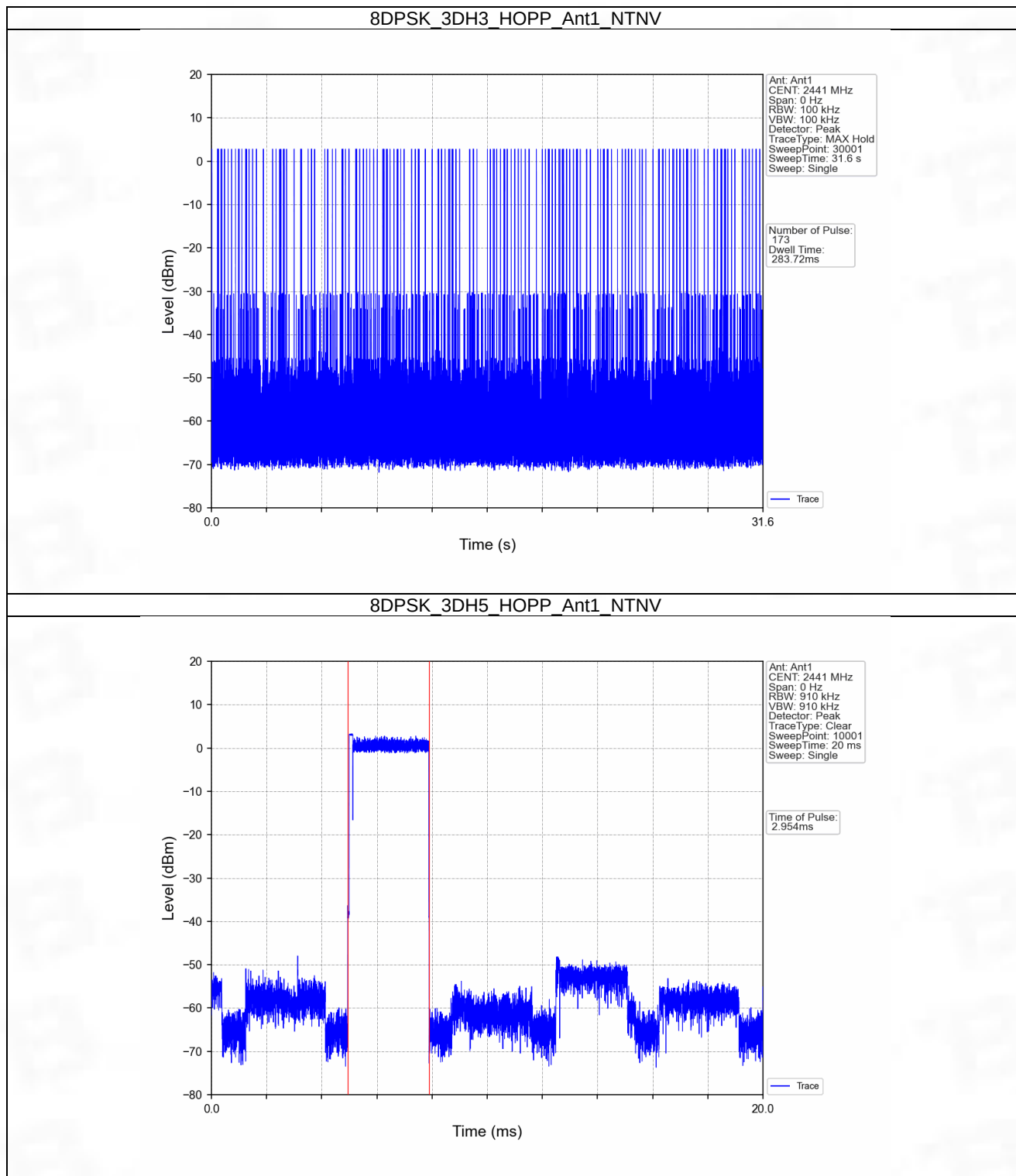
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

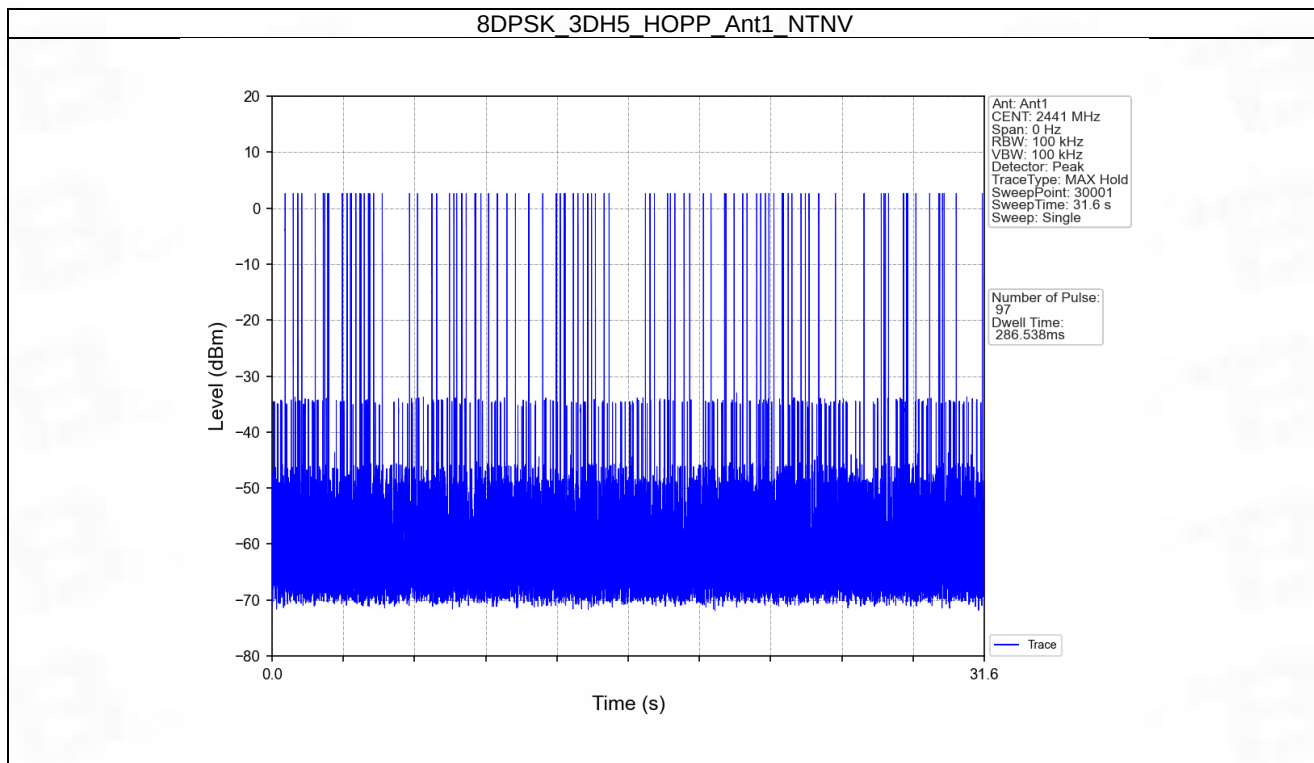


8DPSK_3DH1_HOPP_Ant1_NTNV









6. Unwanted Emissions In Non-restricted Frequency Bands

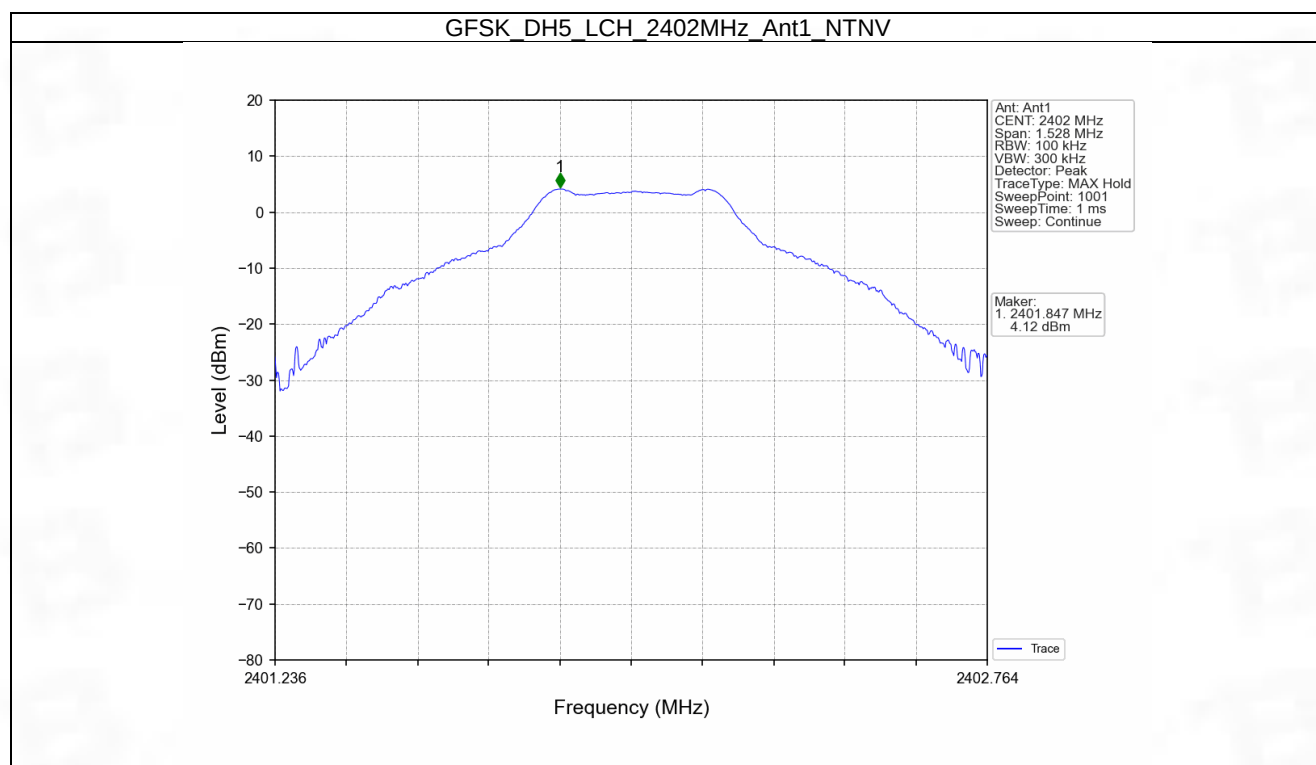
6.1 Ref

6.1.1 Test Result

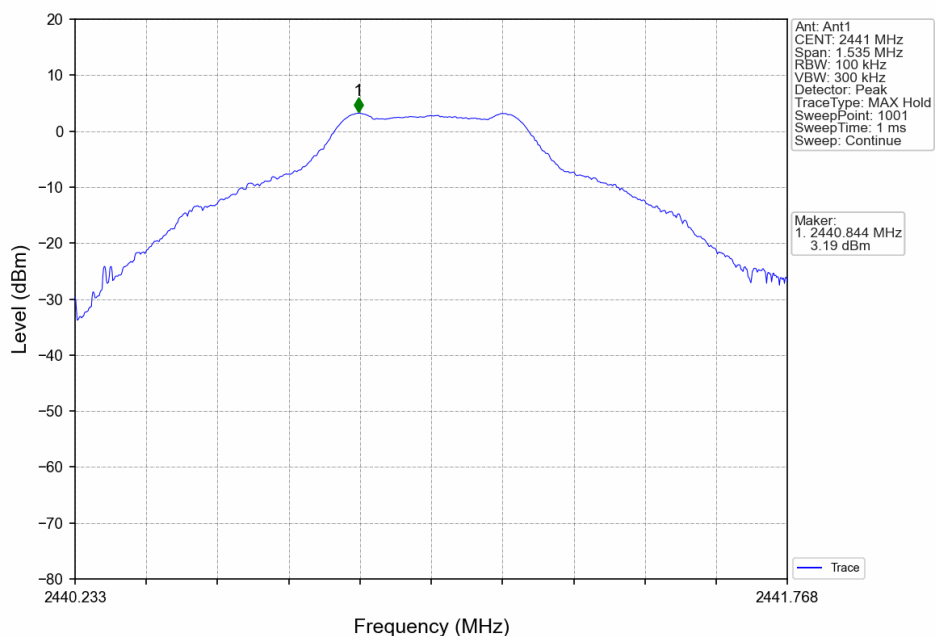
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	4.12
		2441	DH5	1	3.19
		2480	DH5	1	2.09
Pi/4DQPSK	SISO	2402	2DH5	1	4.12
		2441	2DH5	1	3.14
		2480	2DH5	1	2.11
8DPSK	SISO	2402	3DH5	1	4.13
		2441	3DH5	1	3.17
		2480	3DH5	1	2.11

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

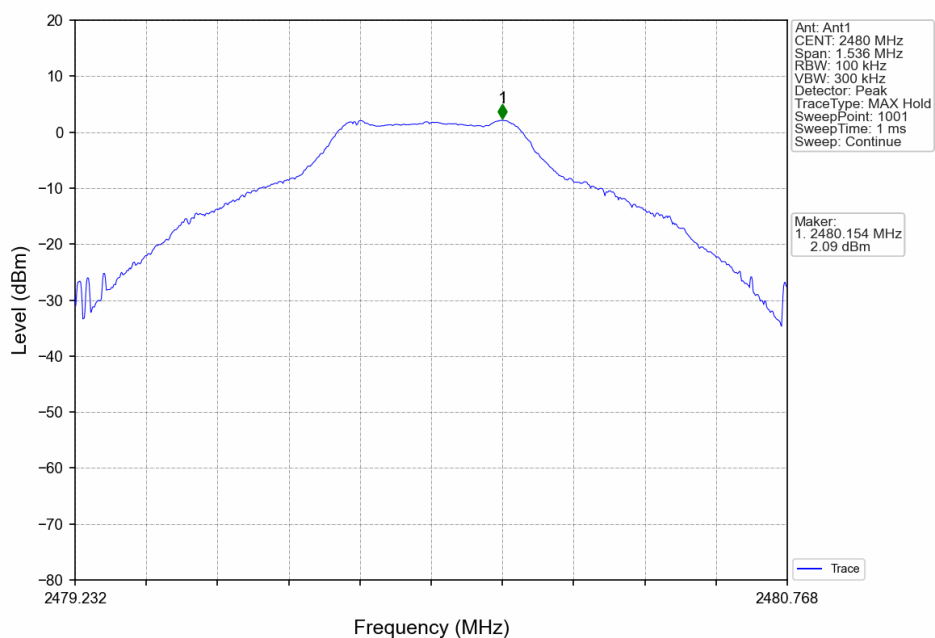
6.1.2 Test Graph

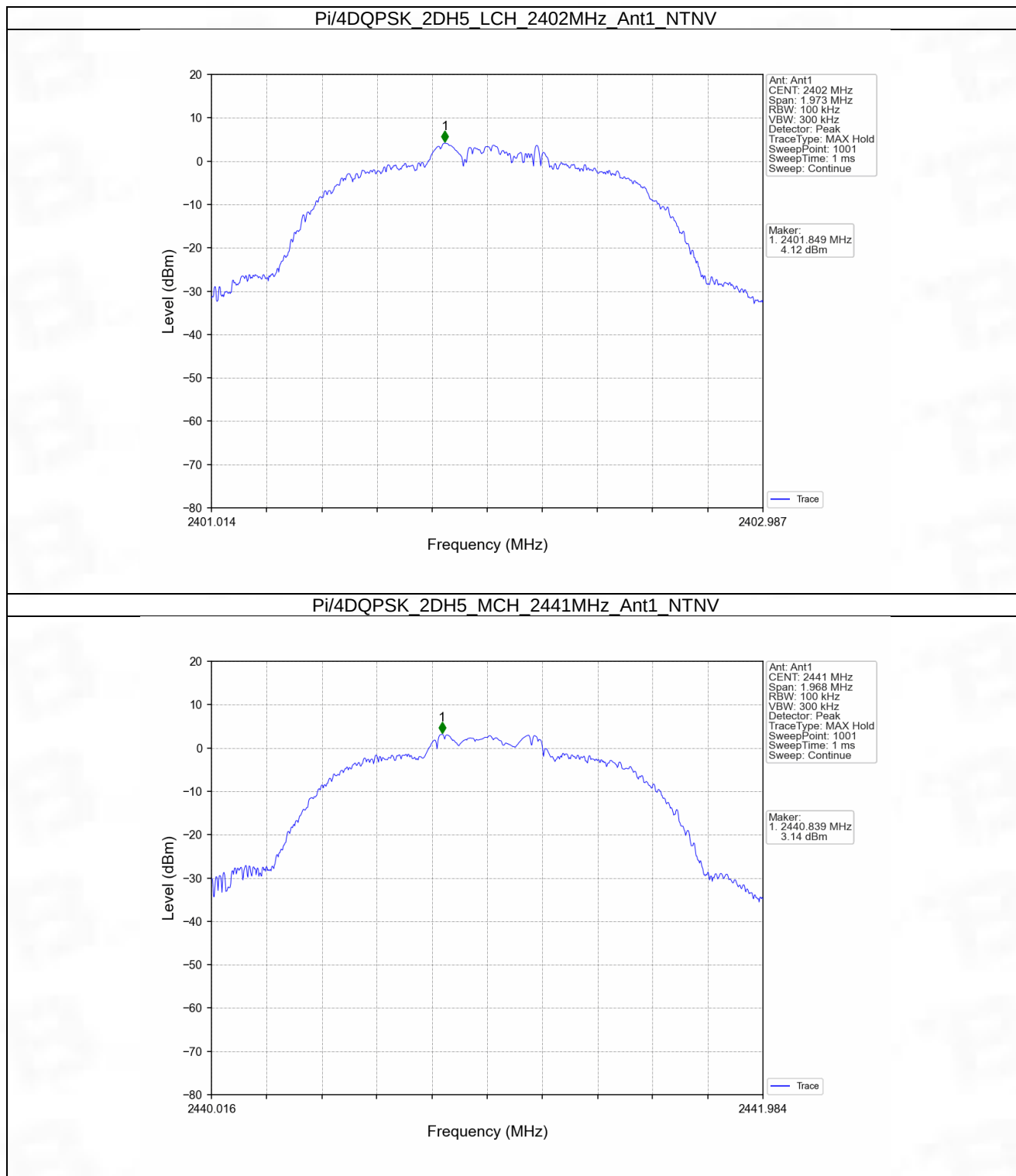


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

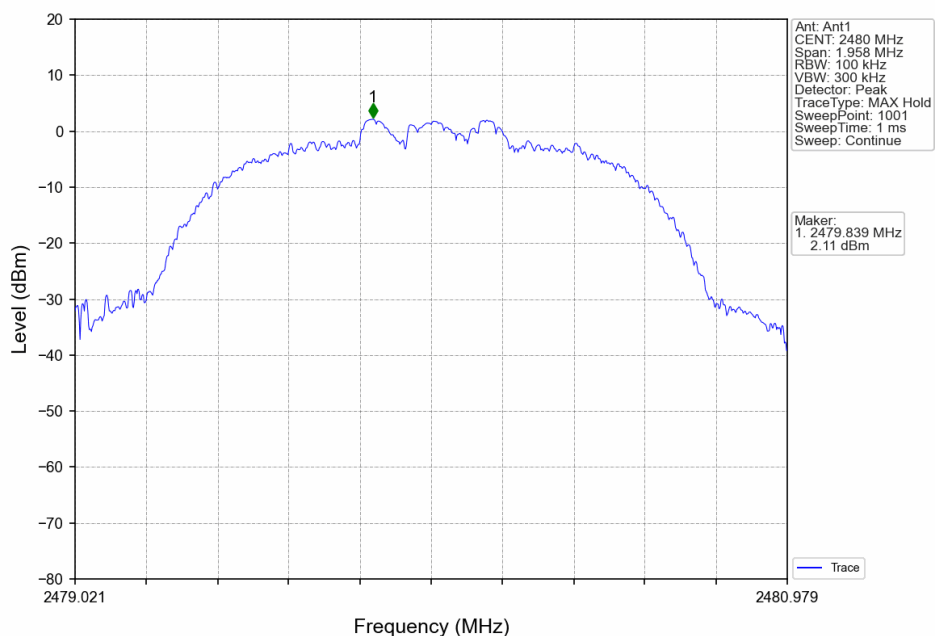


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

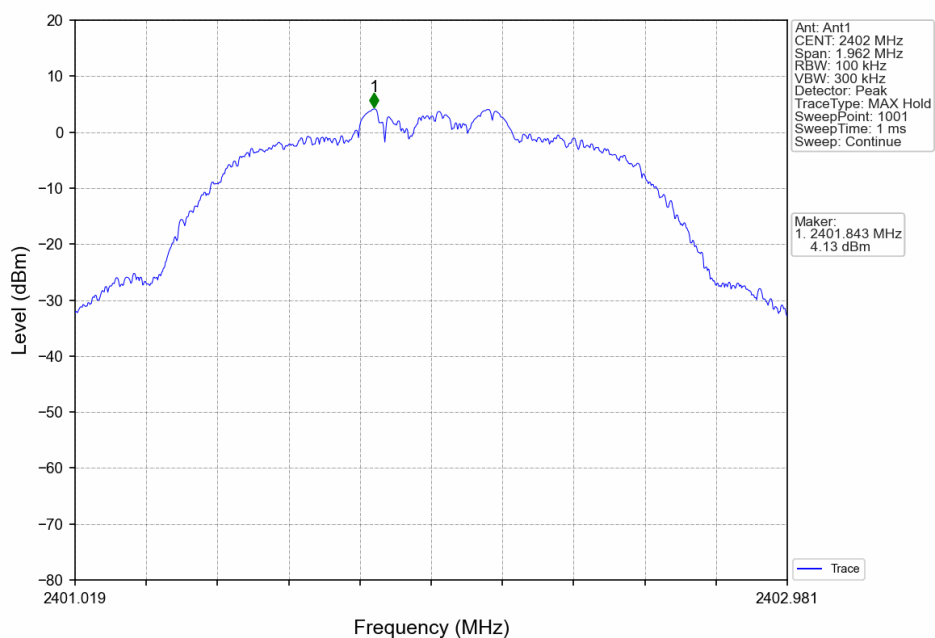




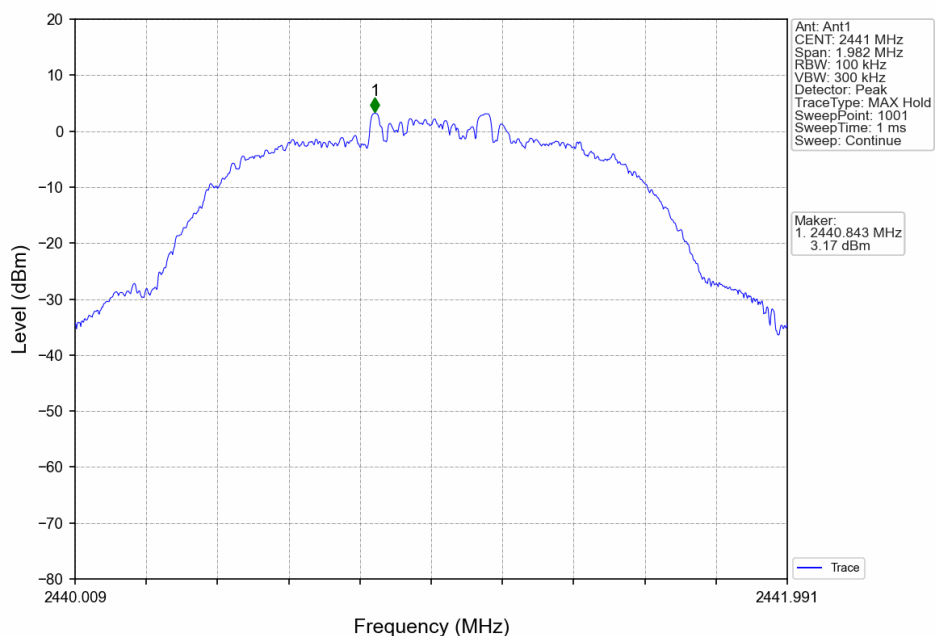
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



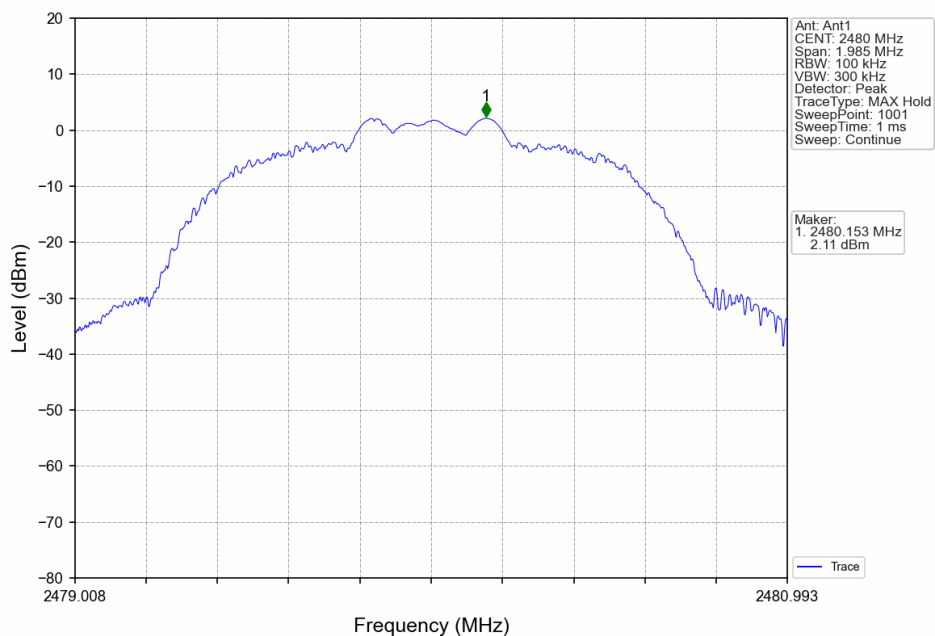
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



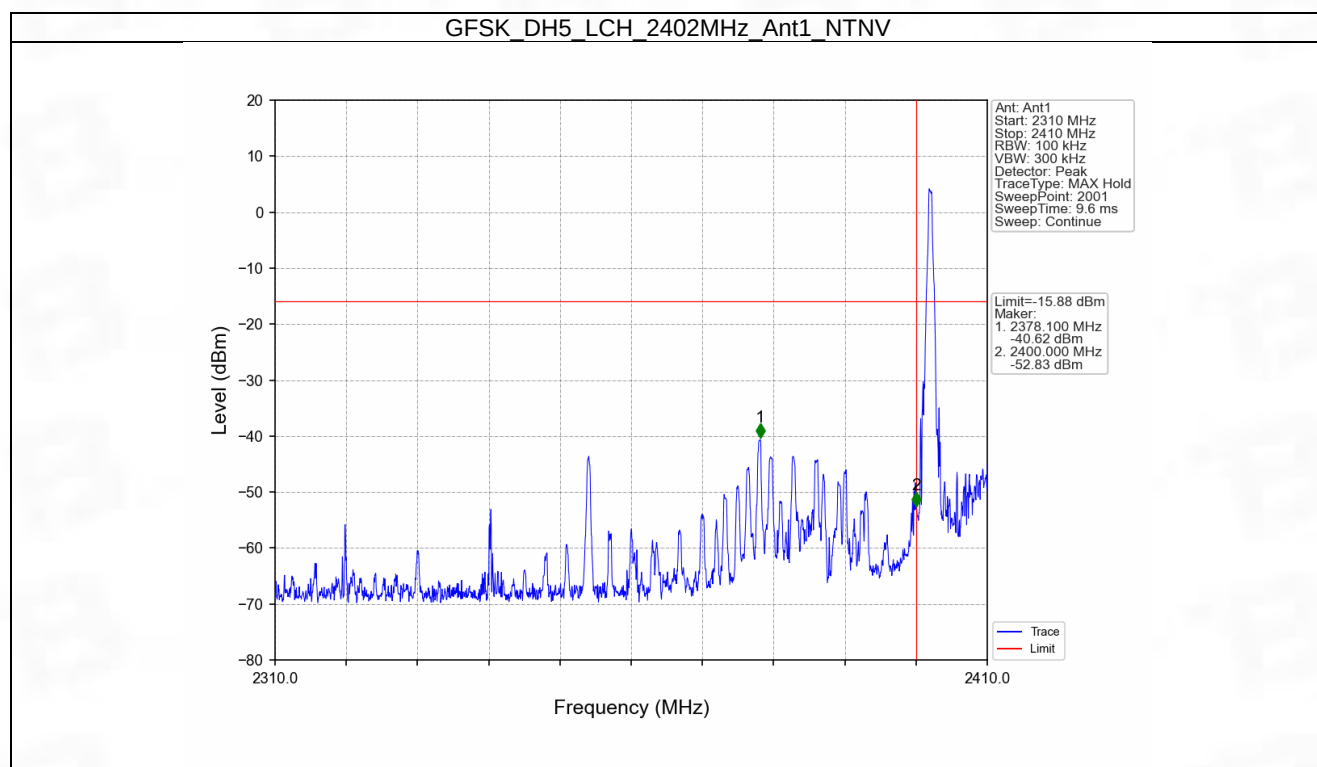
6.2 CSE

6.2.1 Test Result

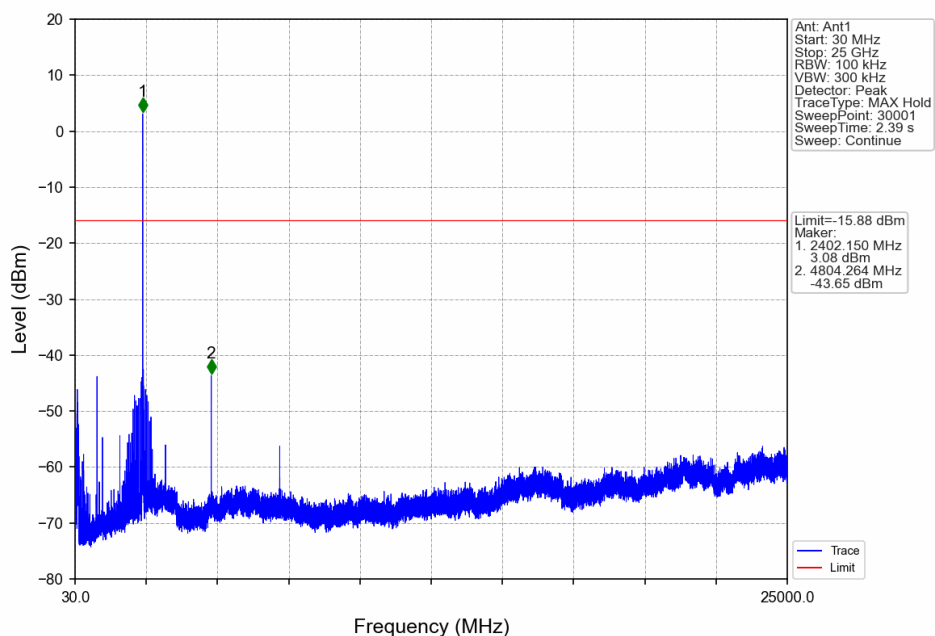
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.12	-15.88	Pass
		2441	DH5	1	4.12	-15.88	Pass
		2480	DH5	1	4.12	-15.88	Pass
		HOPP	DH5	1	4.12	-15.88	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	4.12	-15.88	Pass
		2441	2DH5	1	4.12	-15.88	Pass
		2480	2DH5	1	4.12	-15.88	Pass
		HOPP	2DH5	1	4.12	-15.88	Pass
8DPSK	SISO	2402	3DH5	1	4.13	-15.87	Pass
		2441	3DH5	1	4.13	-15.87	Pass
		2480	3DH5	1	4.13	-15.87	Pass
		HOPP	3DH5	1	4.13	-15.87	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

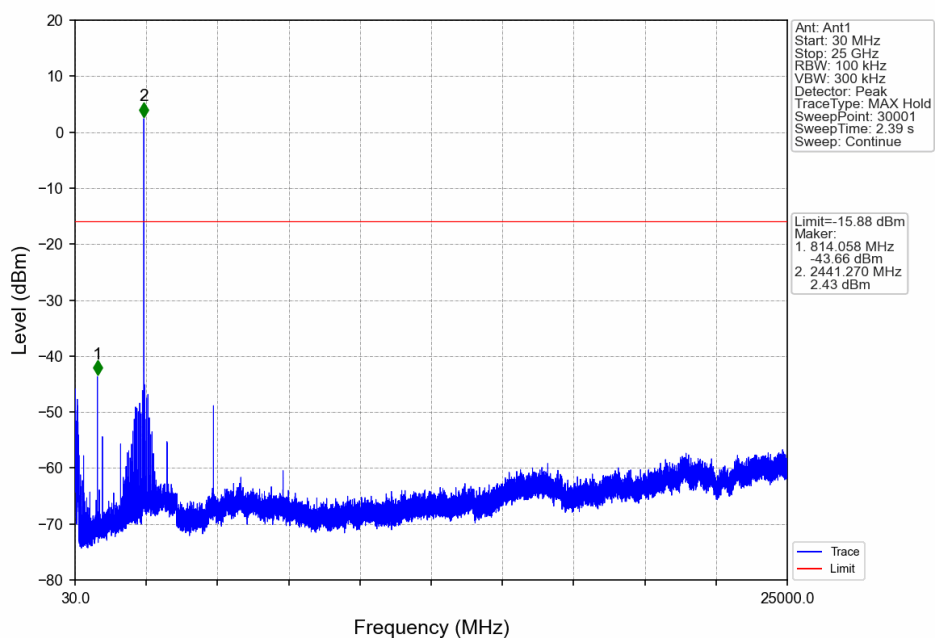
6.2.2 Test Graph



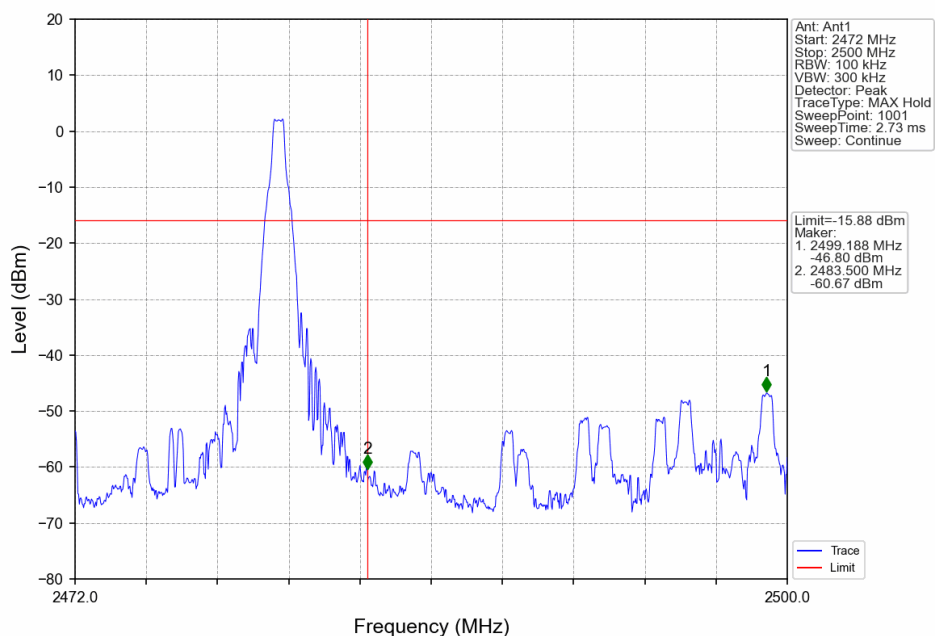
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



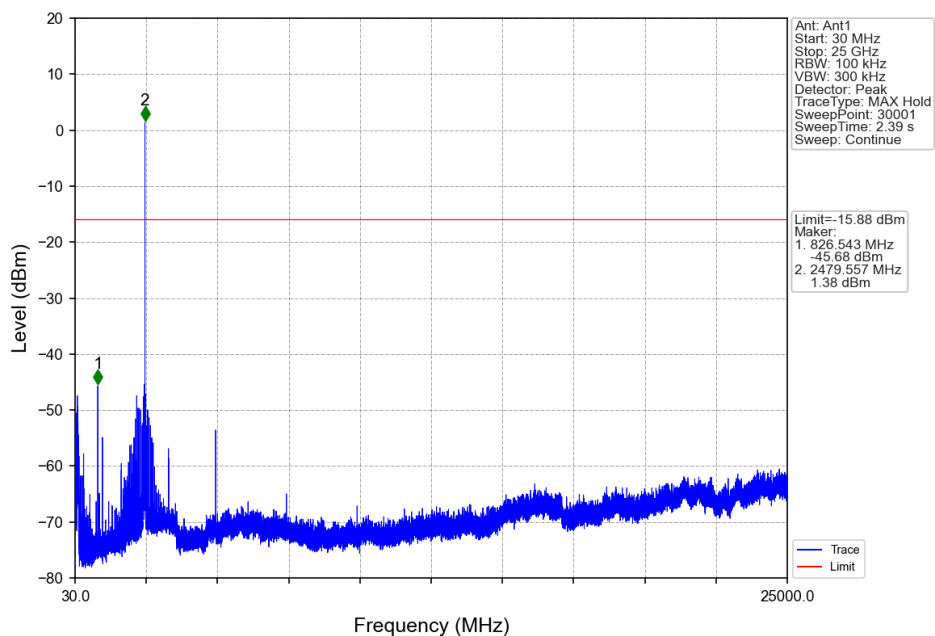
GFSK_DH5_MCH_2441MHz_Ant1_NTNV

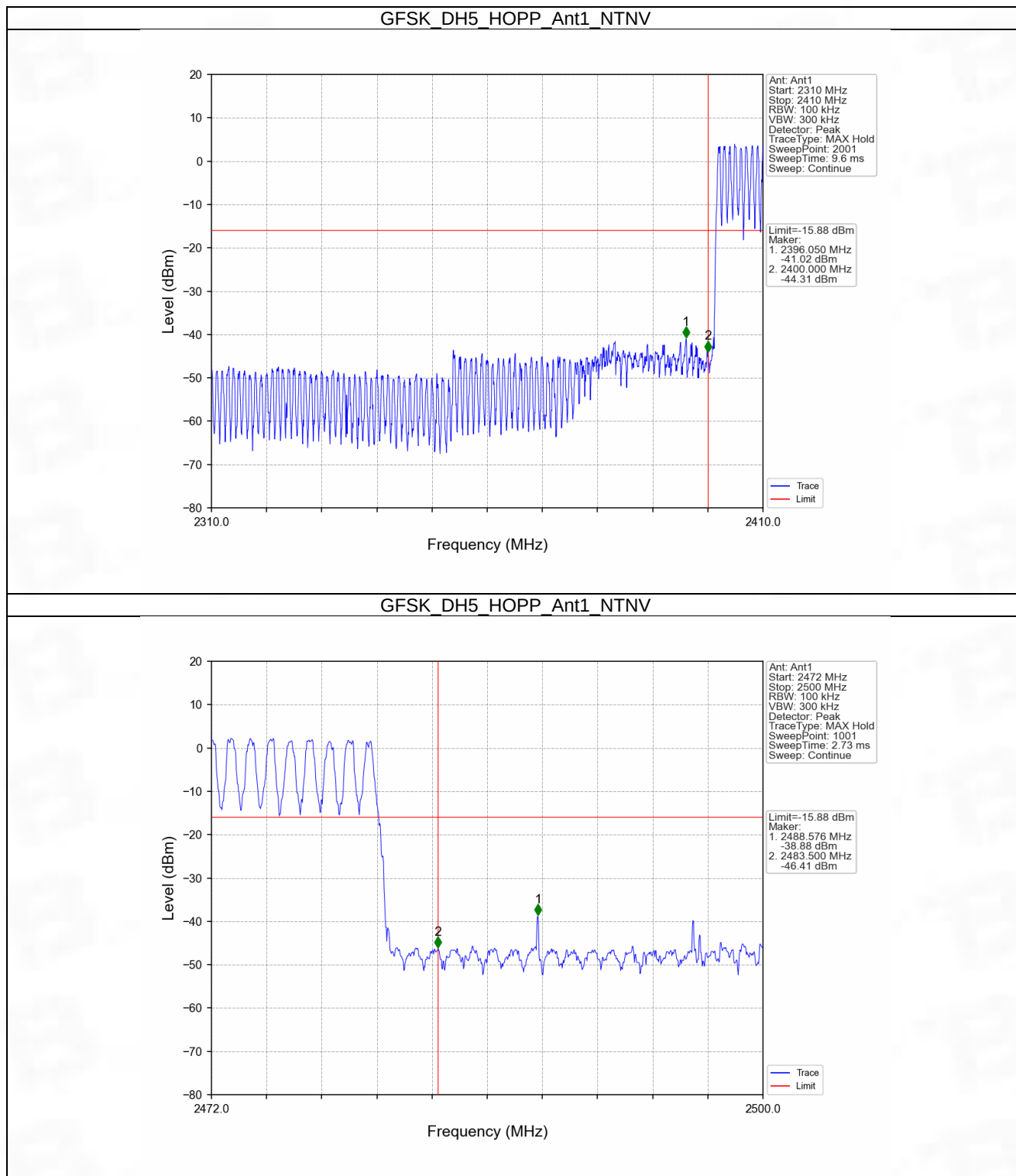


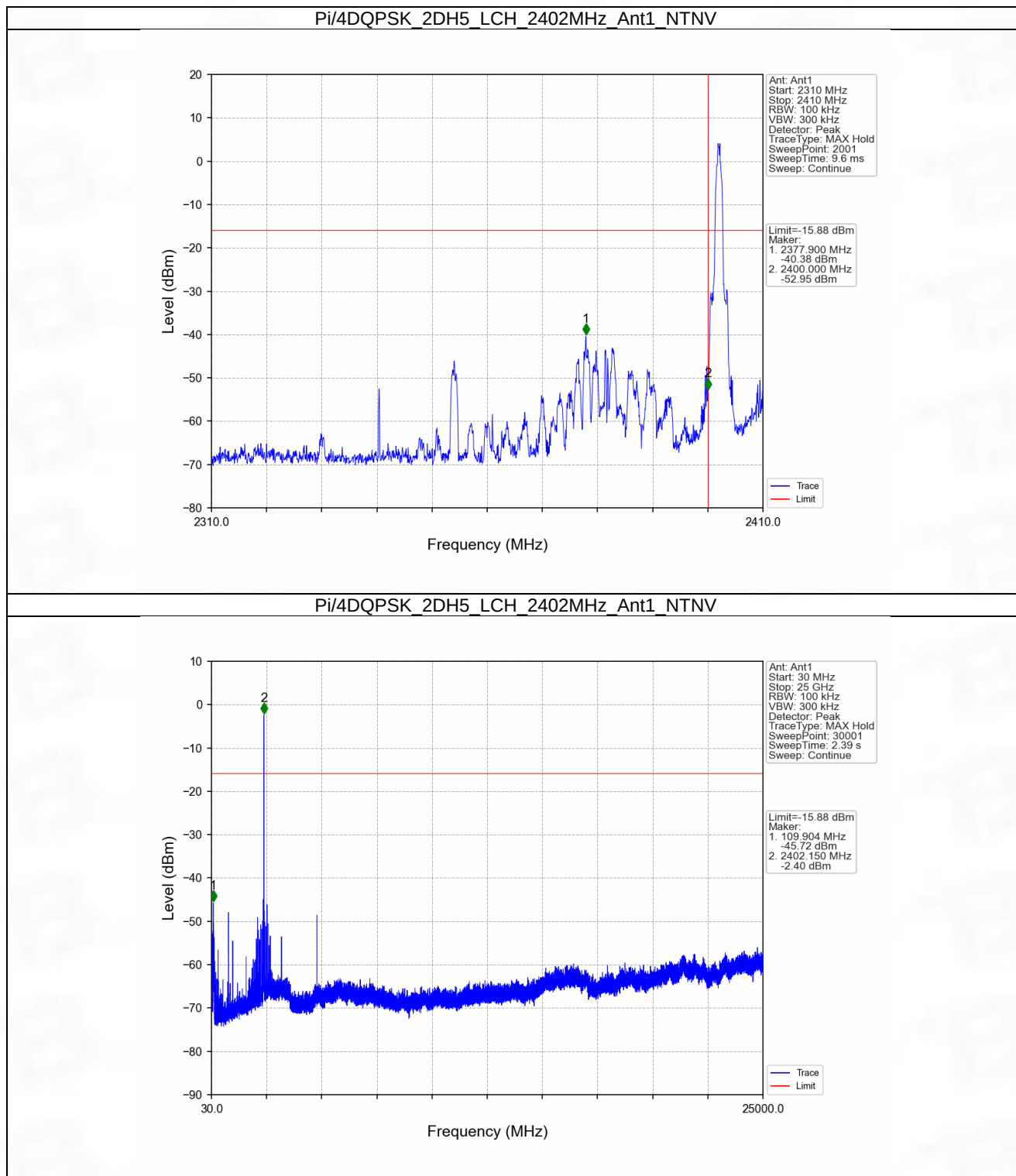
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

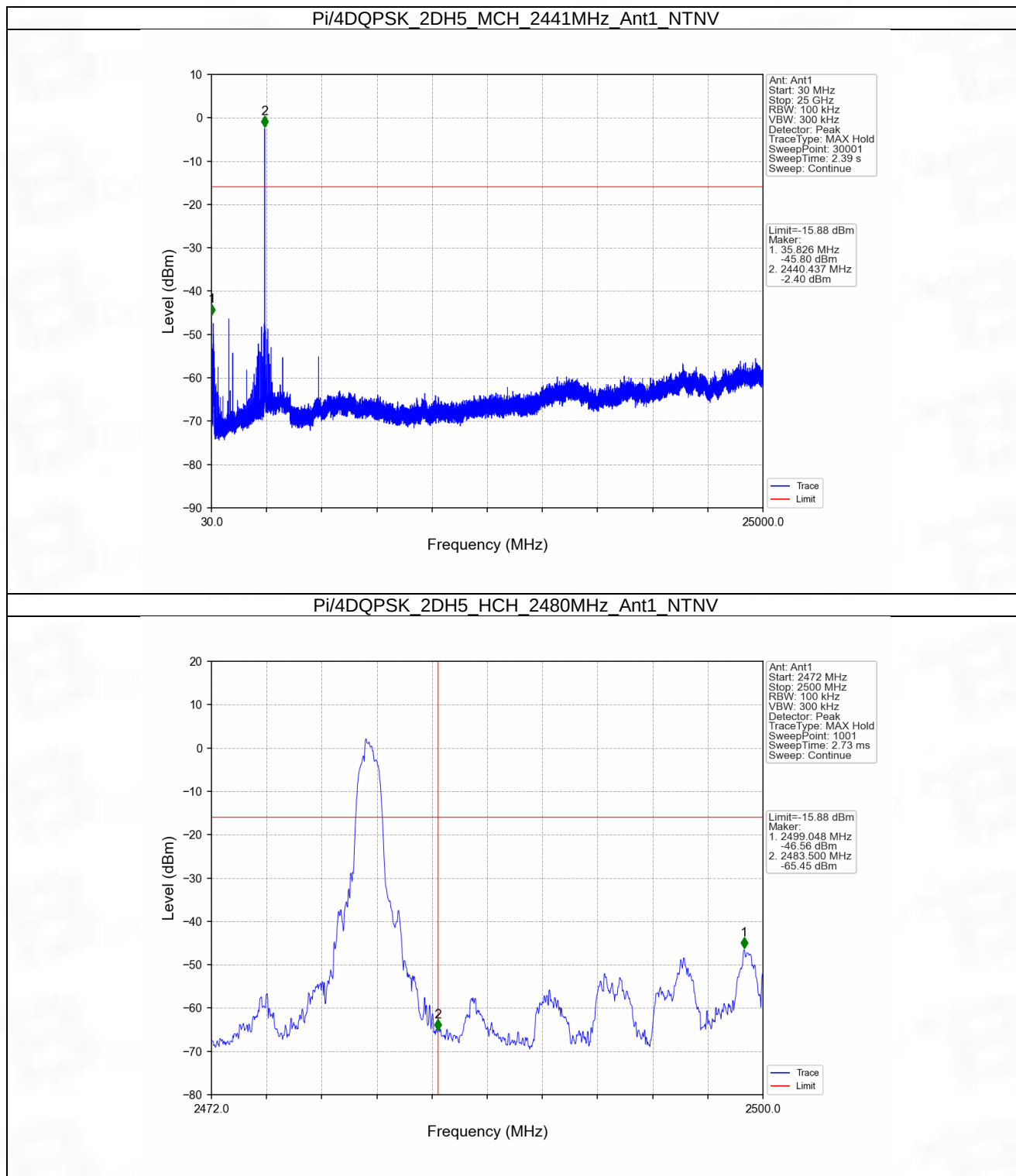


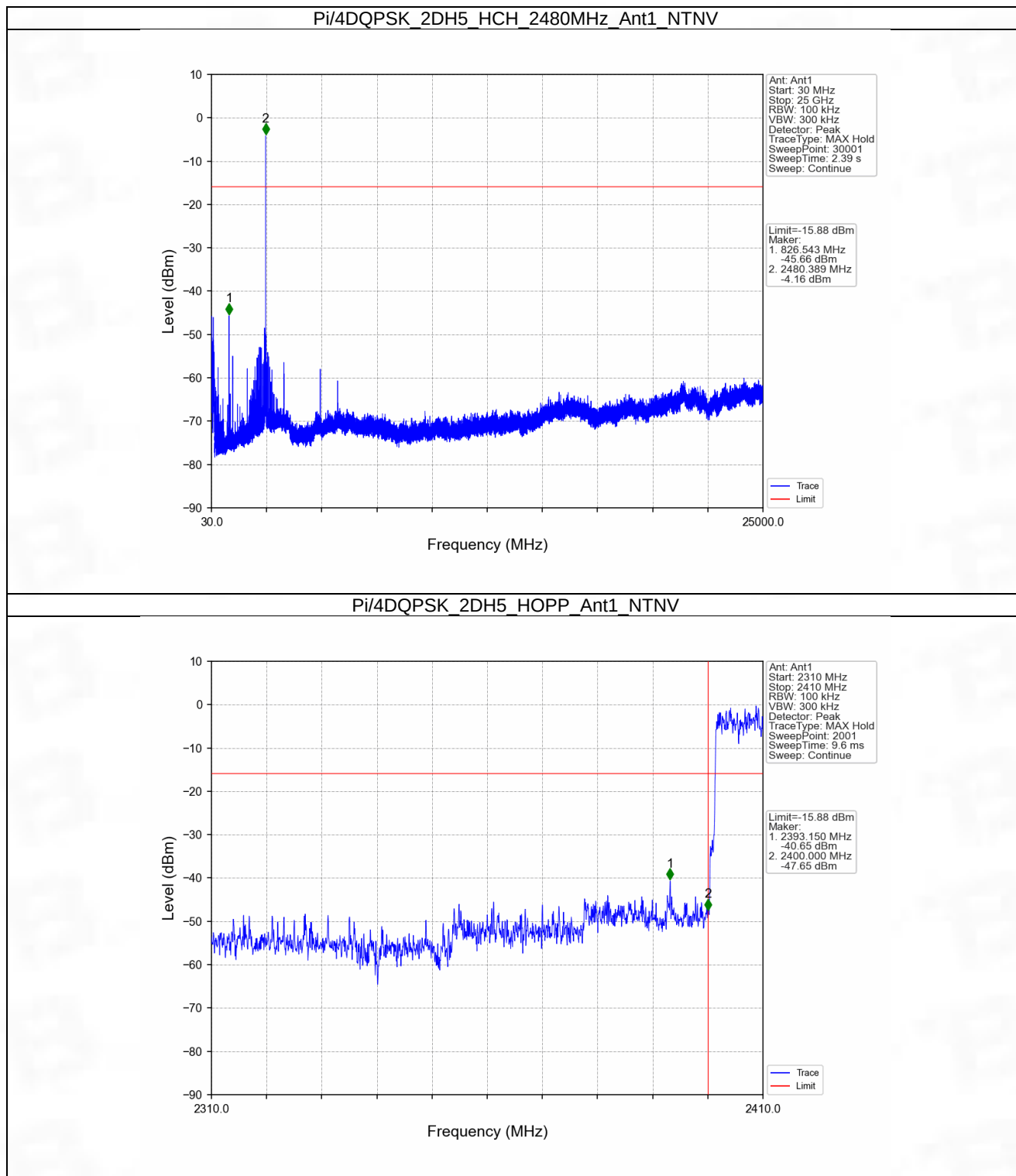
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

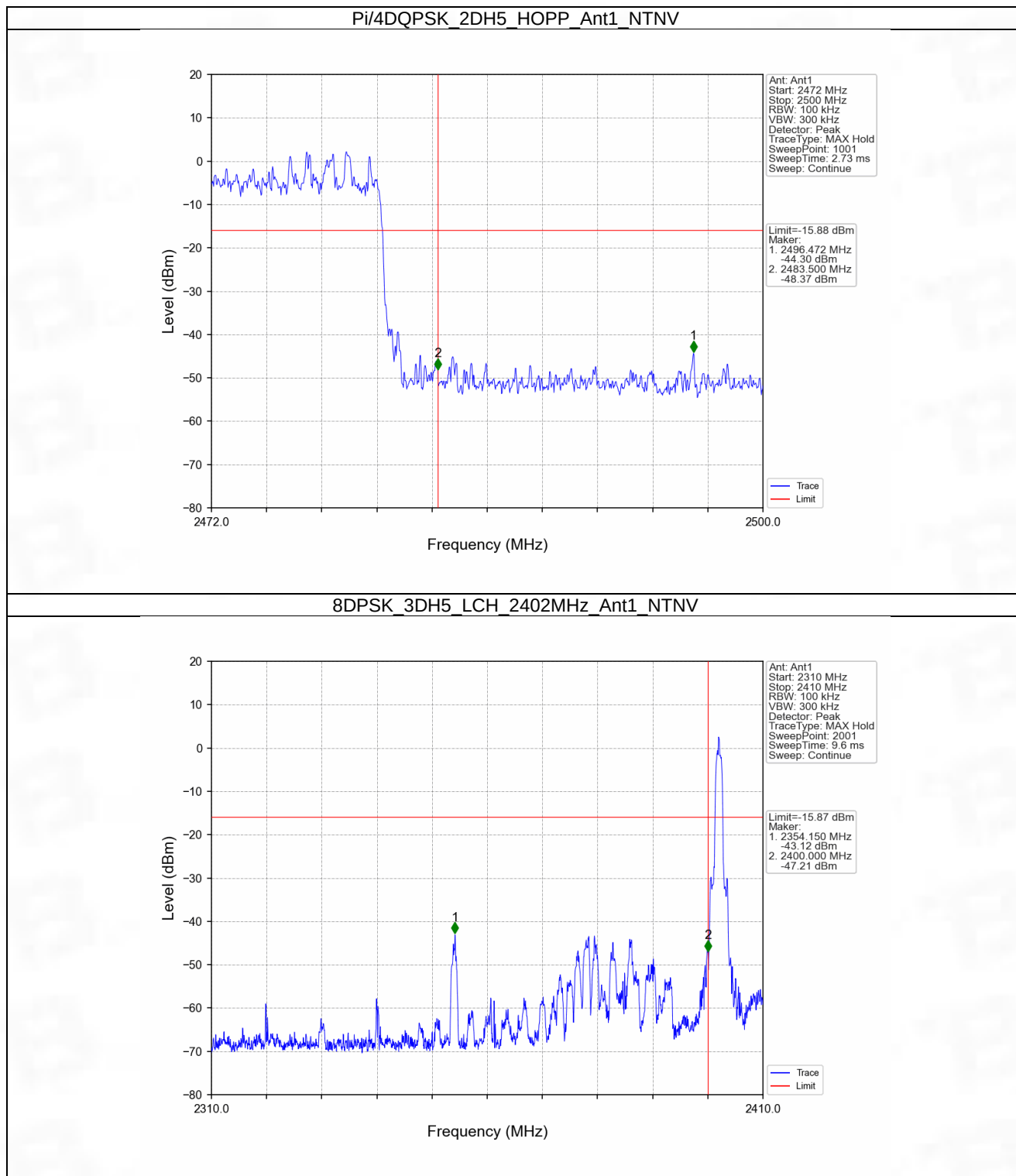




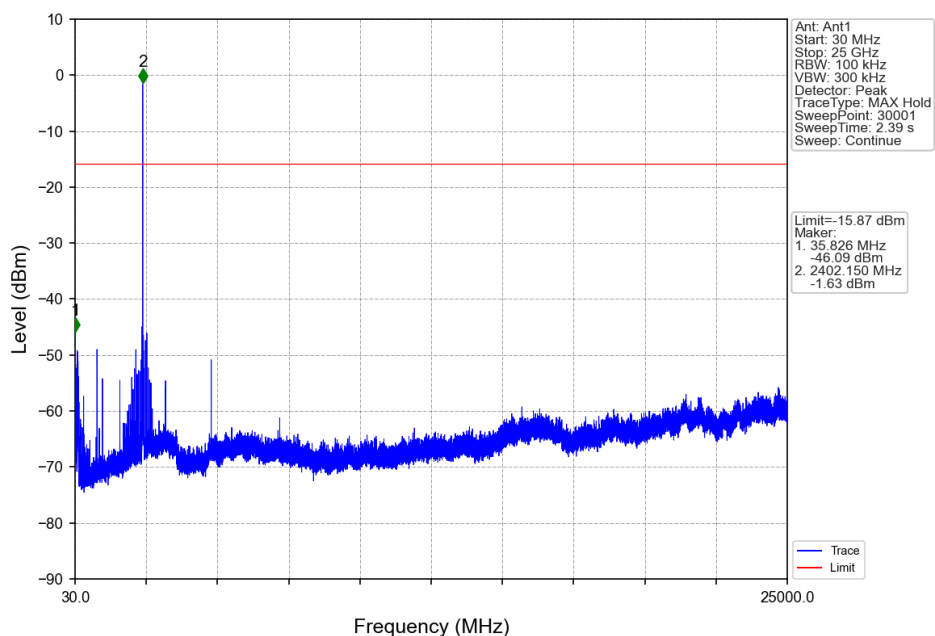




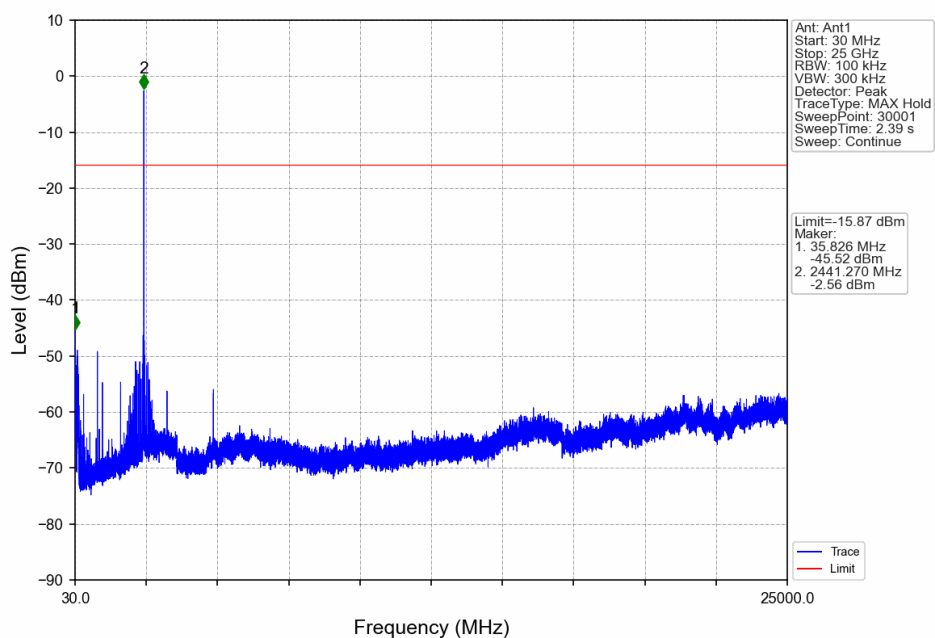


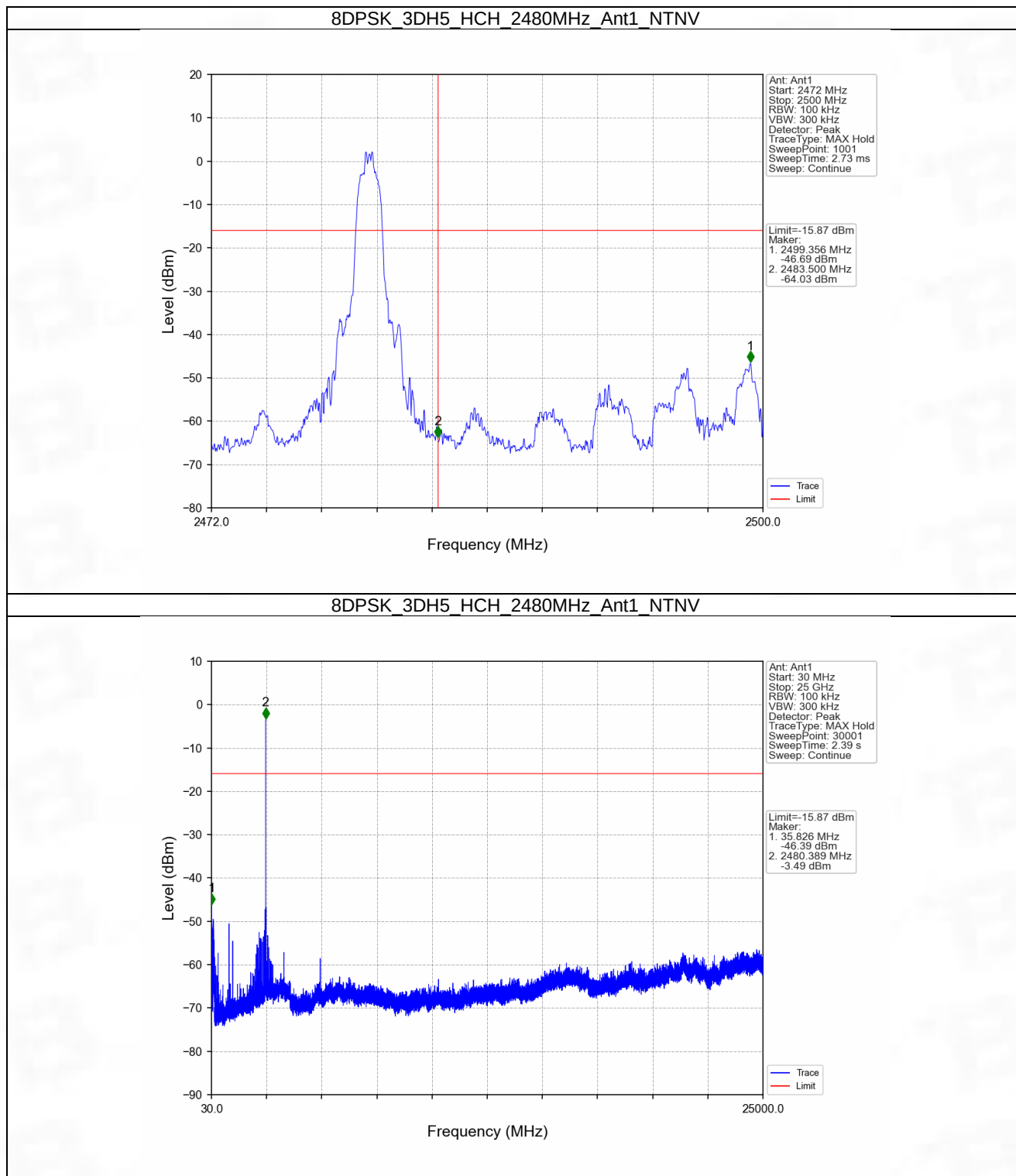


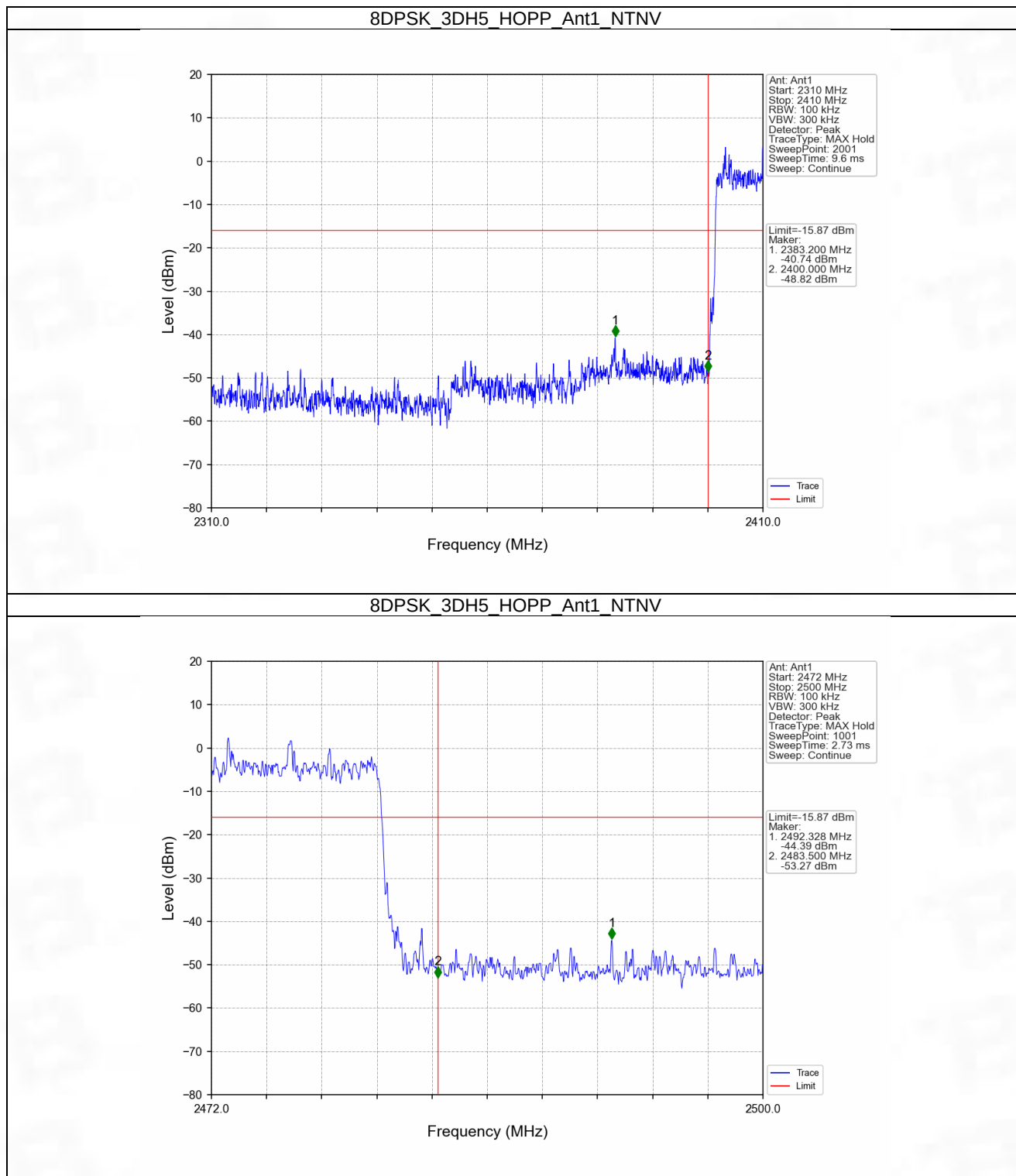
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV







7. Form731

7.1 Form731

7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.0030	4.81



Test Report Number: BTF-SZ230301R-005



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, China

www.btf-lab.com

-- END OF REPORT --