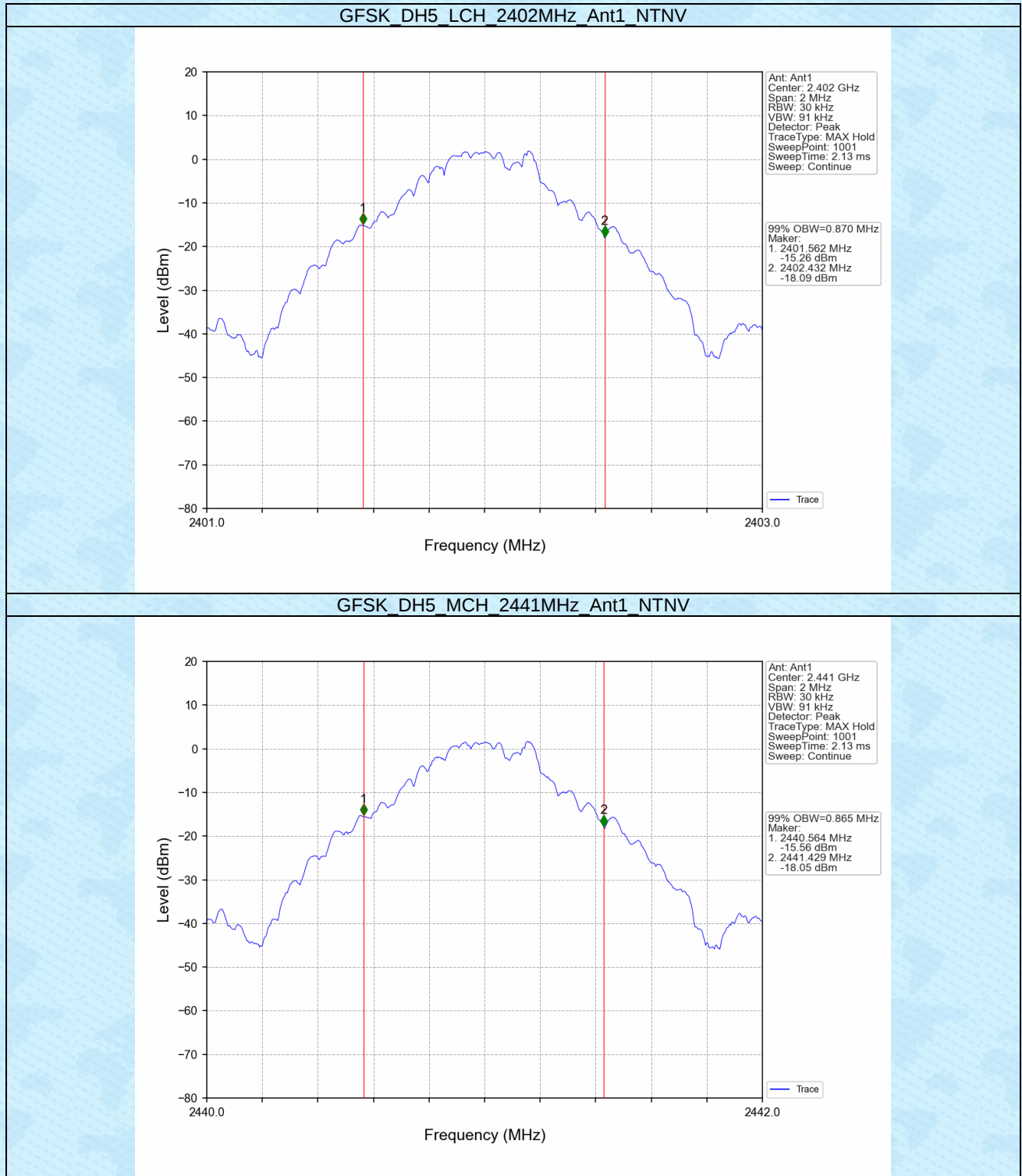


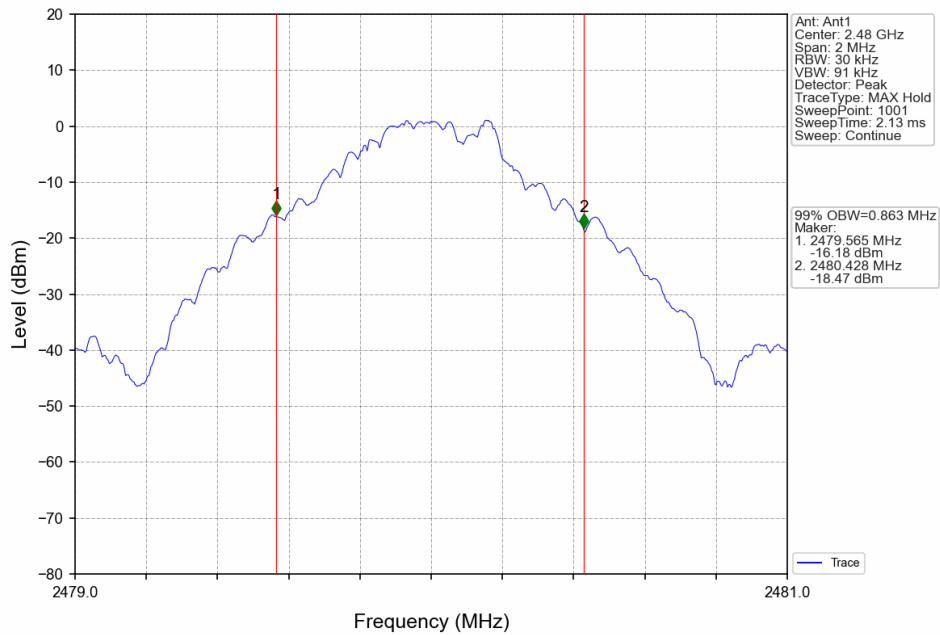
Appendix for 15.247**1. Bandwidth****1.1 OBW****1.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.870	Pass
		2441	DH5	1	0.865	Pass
		2480	DH5	1	0.863	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	0.842	Pass
		2441	2DH5	1	0.817	Pass
		2480	2DH5	1	0.819	Pass
8-DPSK	SISO	2402	3DH5	1	0.779	Pass
		2441	3DH5	1	0.774	Pass
		2480	3DH5	1	0.763	Pass

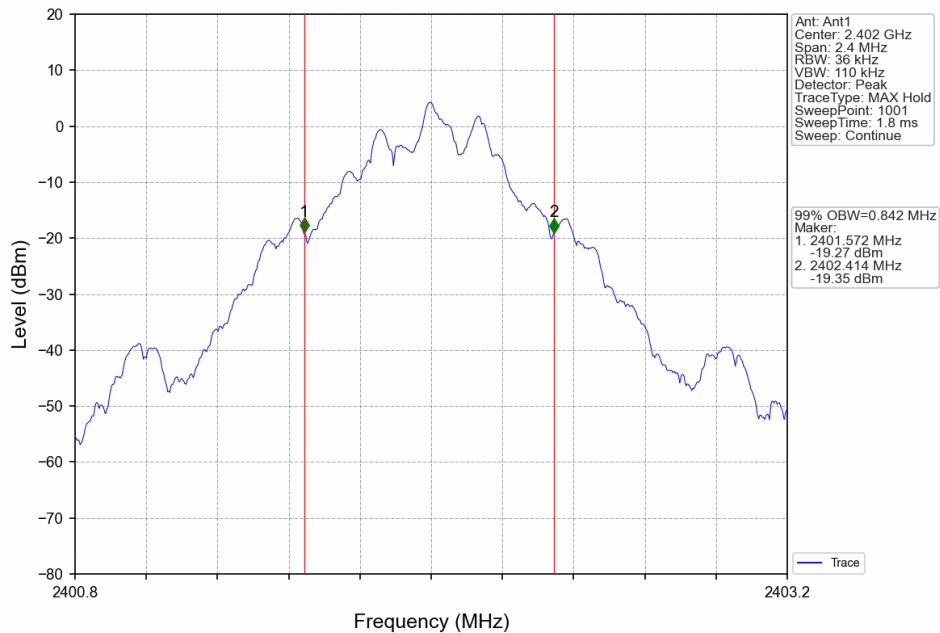
1.1.2 Test Graph



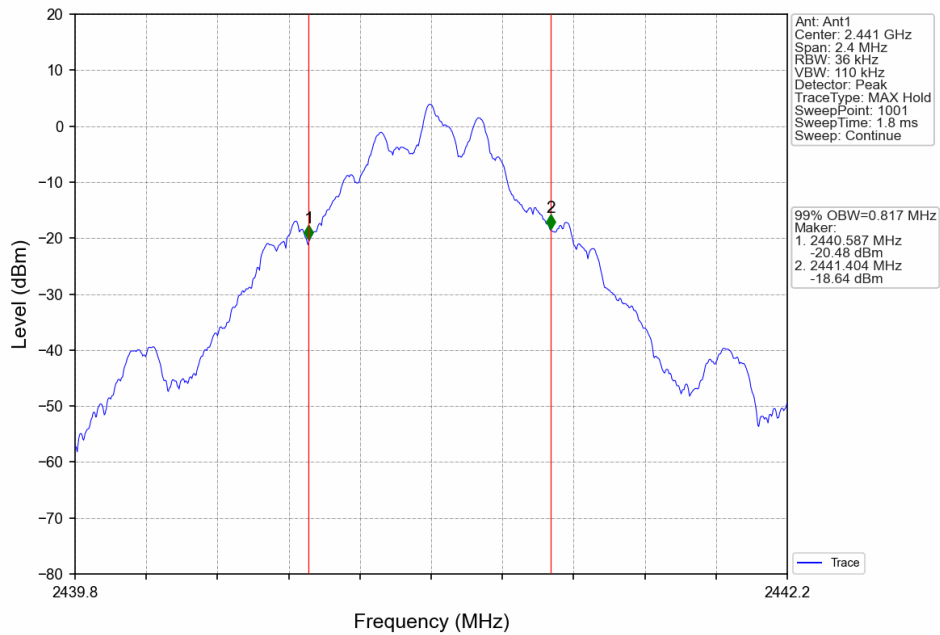
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



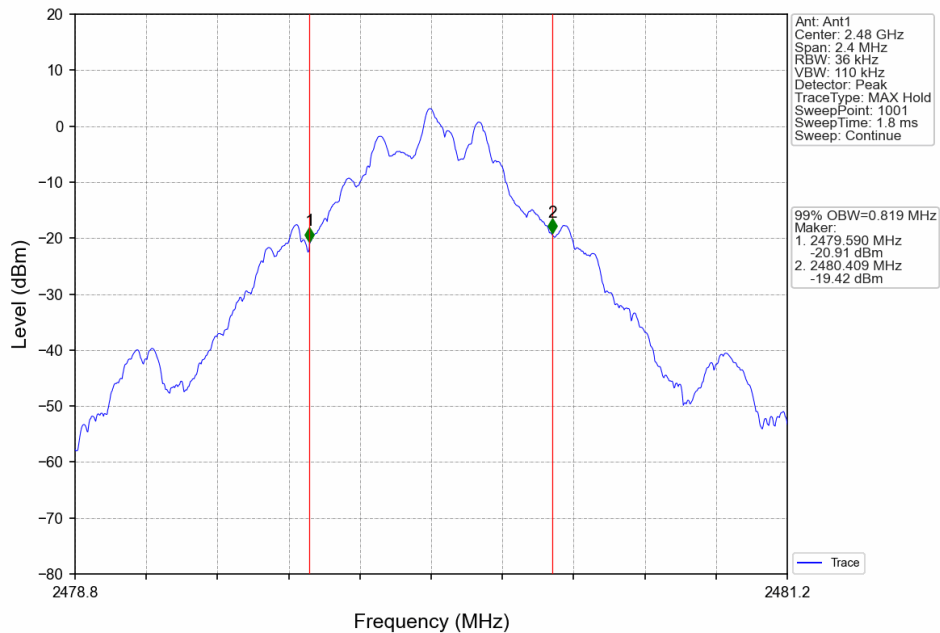
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



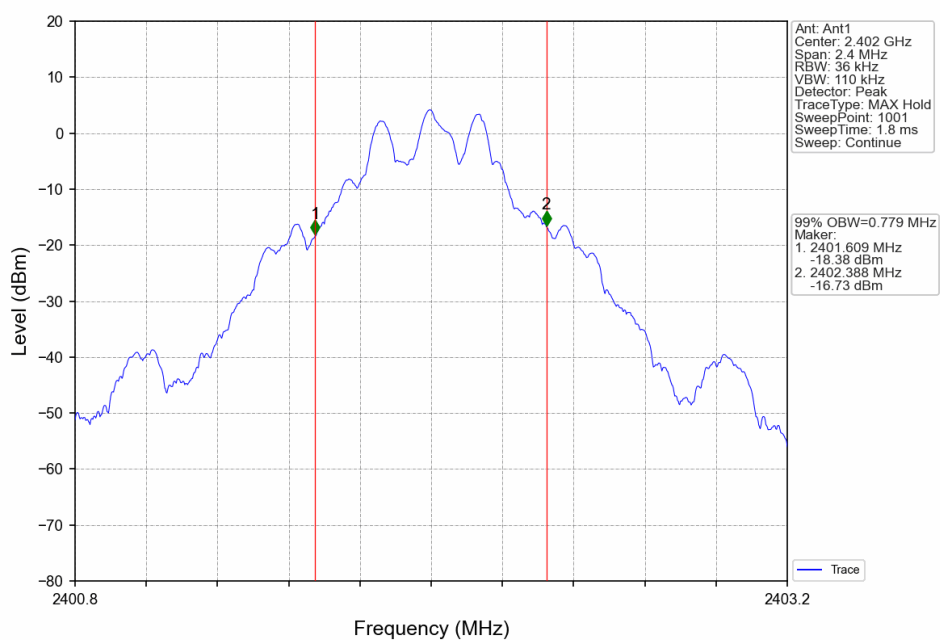
$\pi/4$ -DQPSK 2DH5 MCH 2441MHz Ant1 NTN



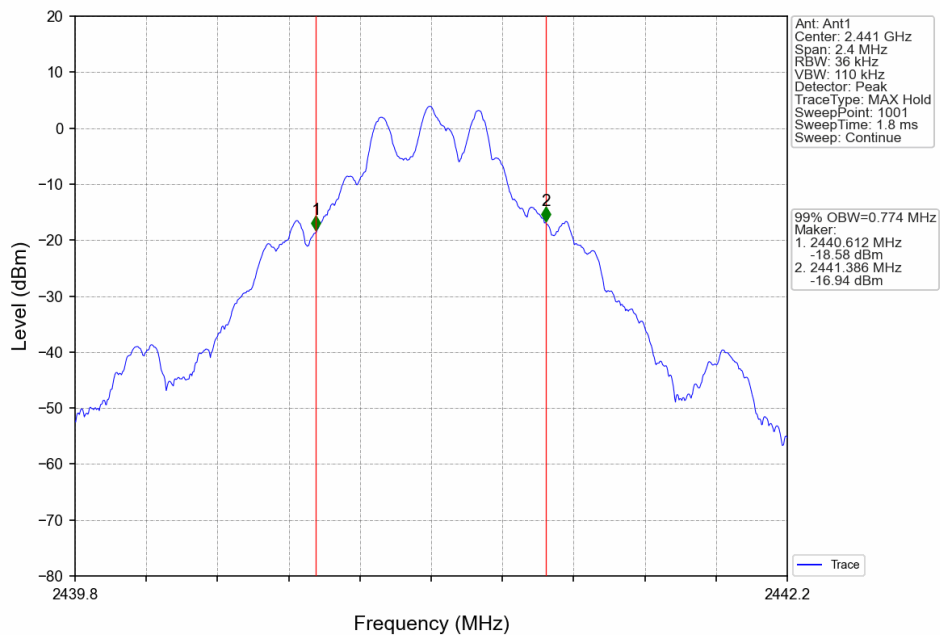
$\pi/4$ -DQPSK 2DH5 HCH 2480MHz Ant1 NTN

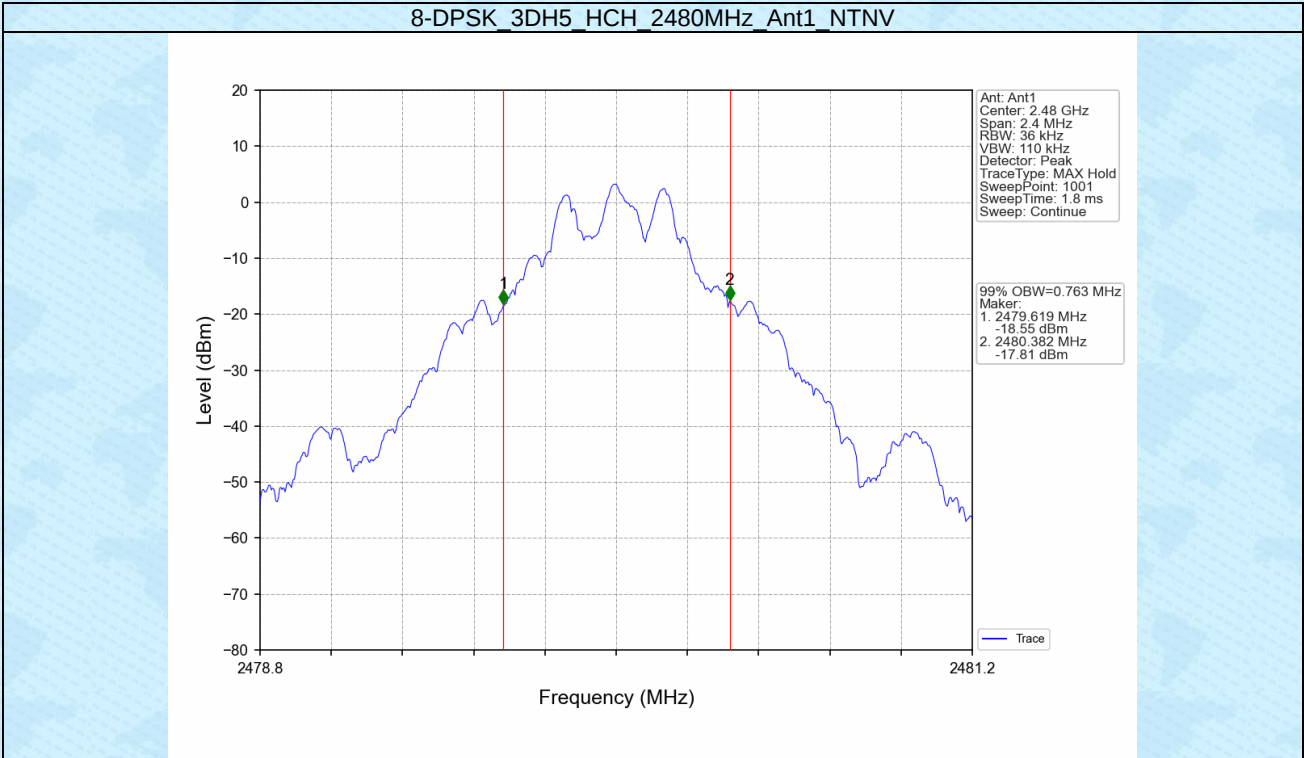


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



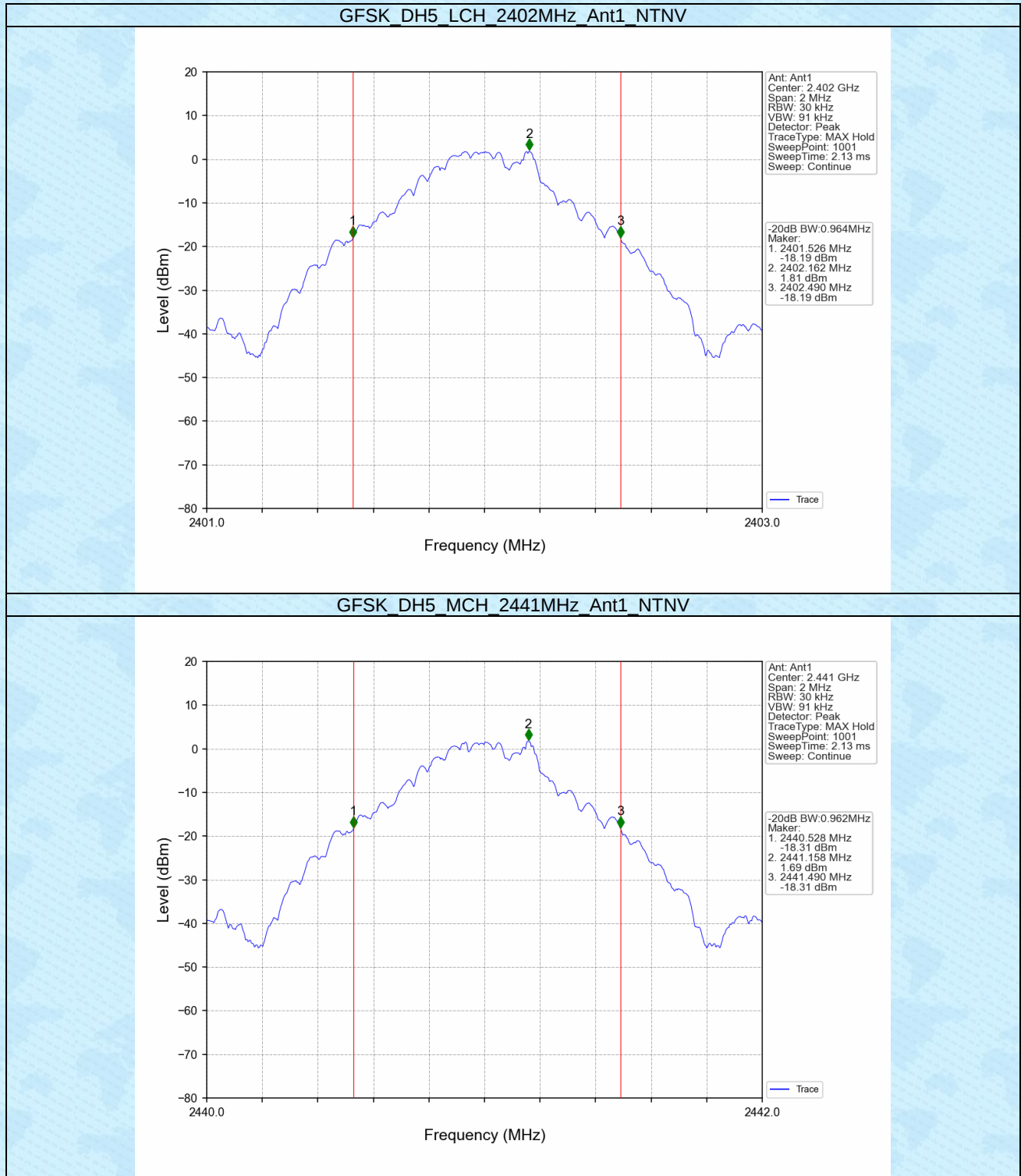


1.2 20dB BW

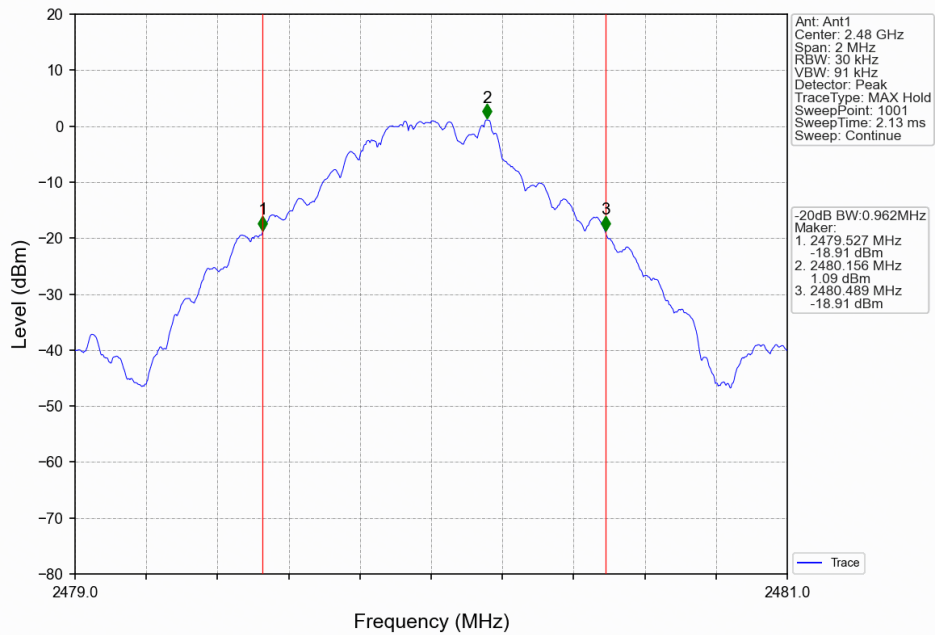
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.964	Pass
		2441	DH5	1	0.962	Pass
		2480	DH5	1	0.962	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	0.735	Pass
		2441	2DH5	1	0.733	Pass
		2480	2DH5	1	0.738	Pass
8-DPSK	SISO	2402	3DH5	1	0.734	Pass
		2441	3DH5	1	0.737	Pass
		2480	3DH5	1	0.721	Pass

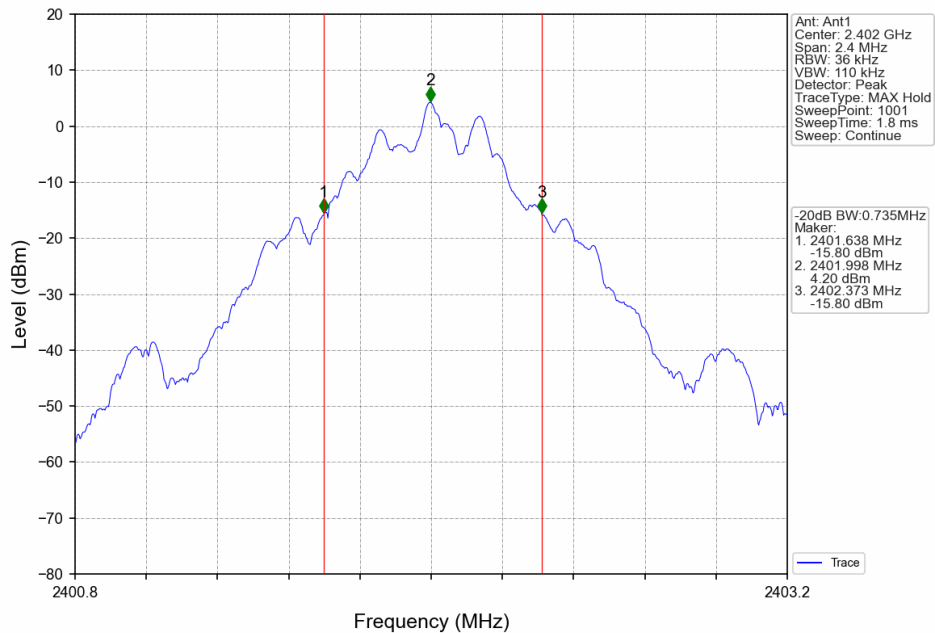
1.2.2 Test Graph

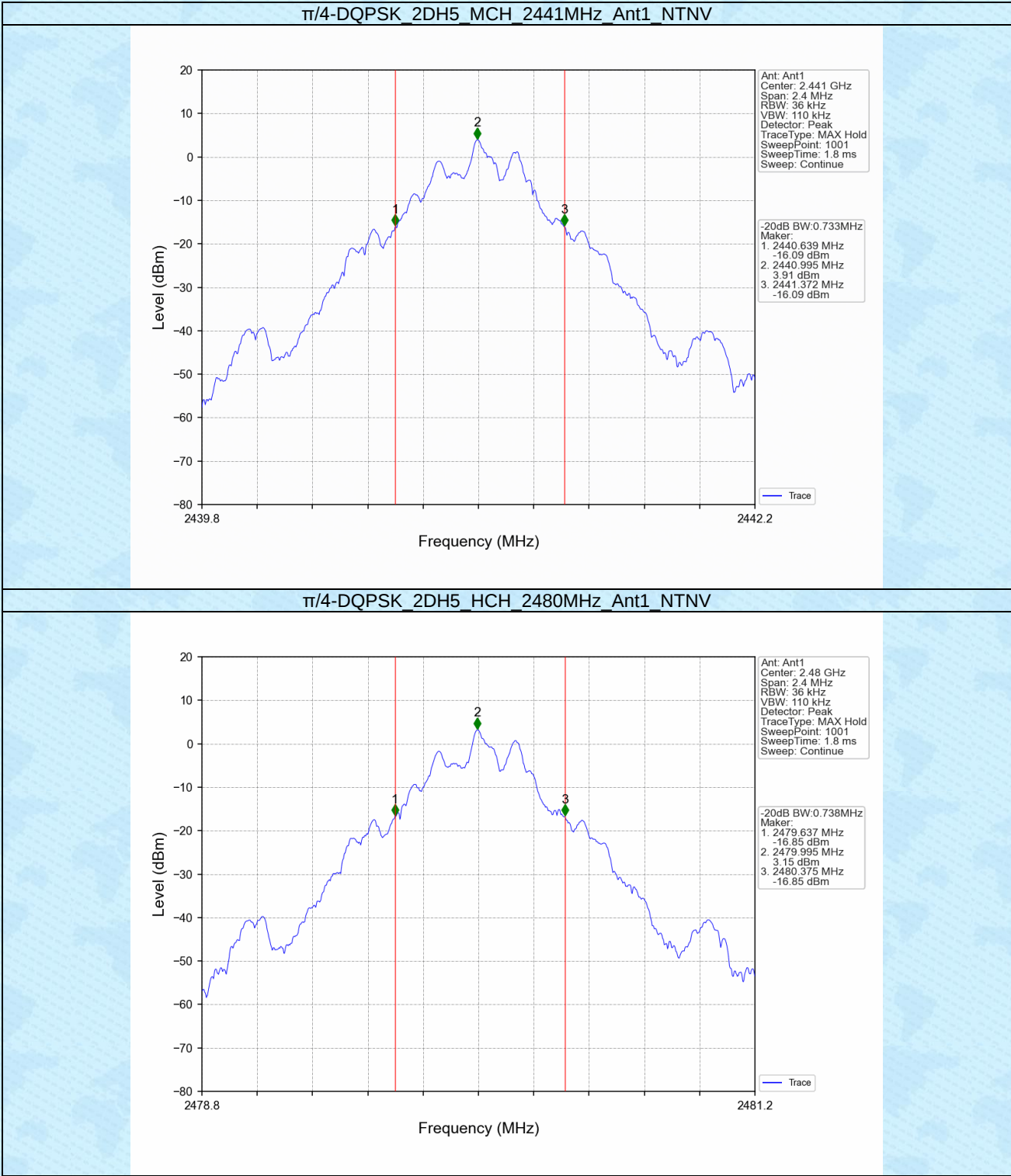


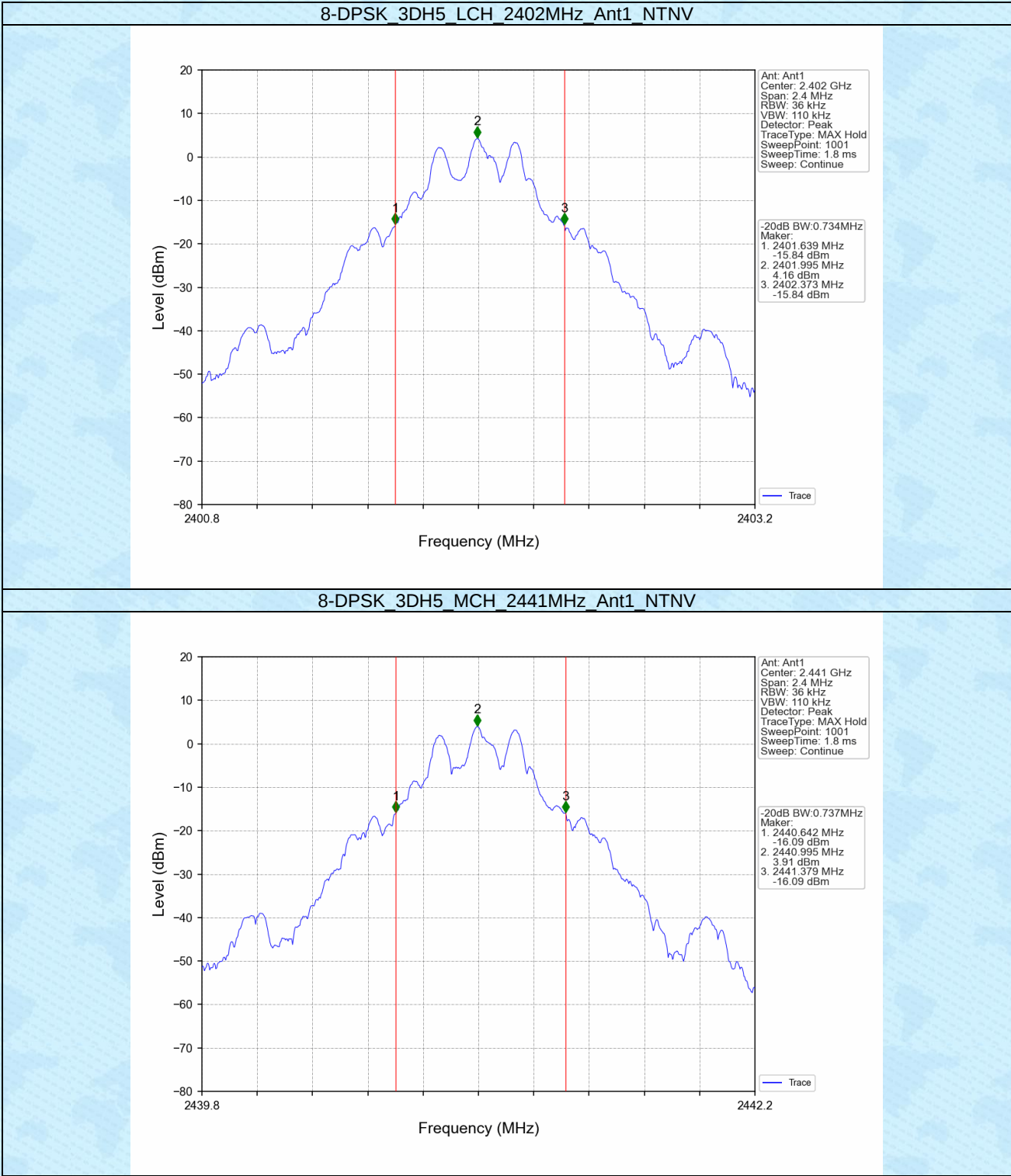
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

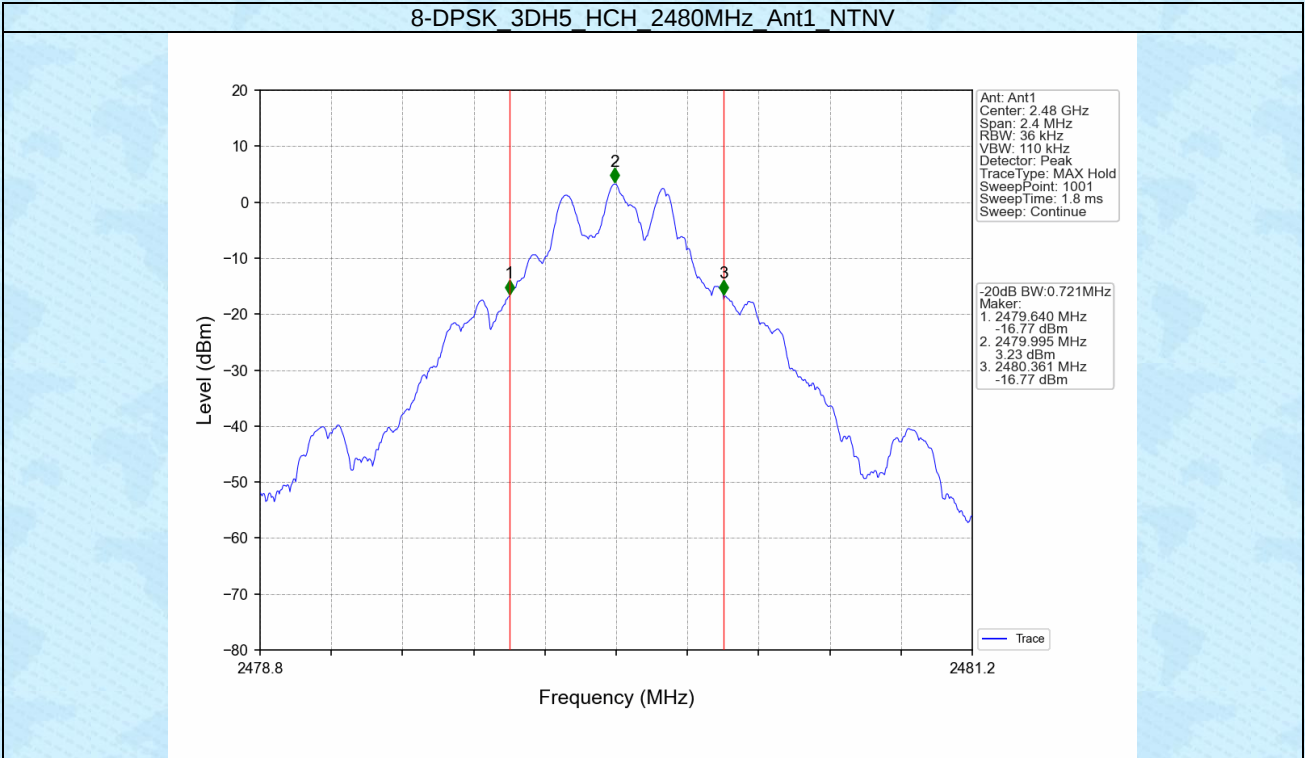


$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV









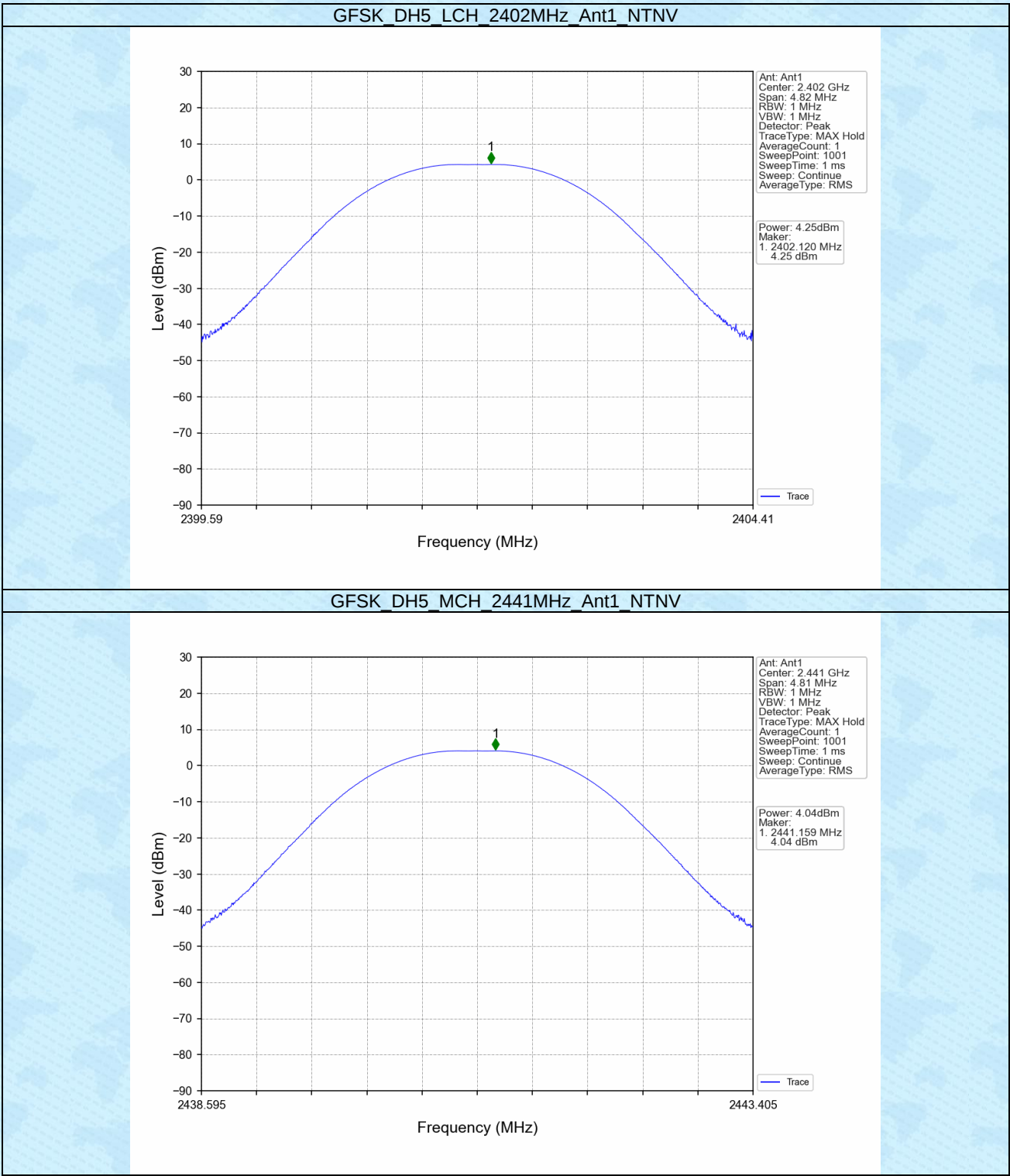
2. Maximum Conducted Output Power

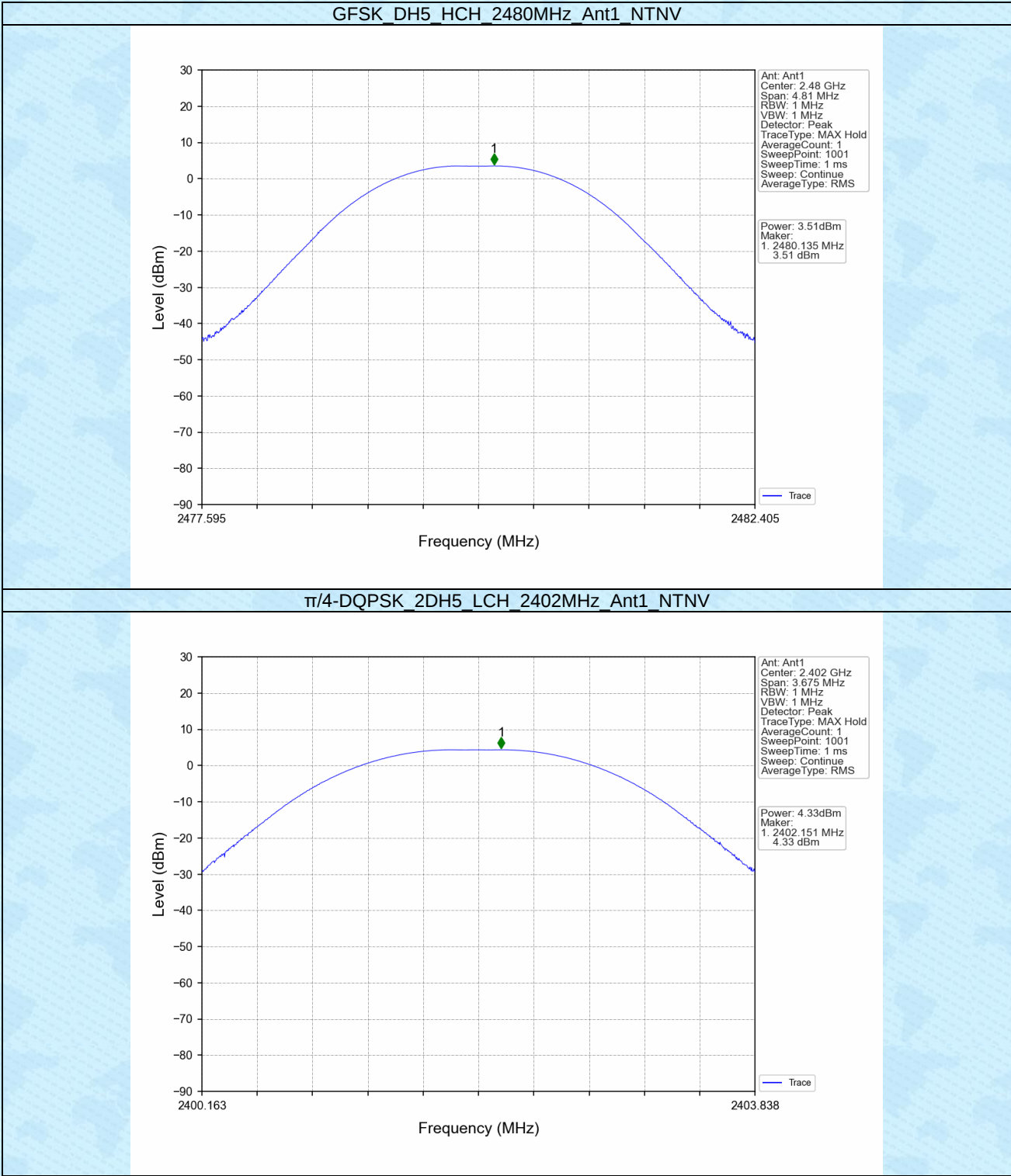
2.1 Test Result

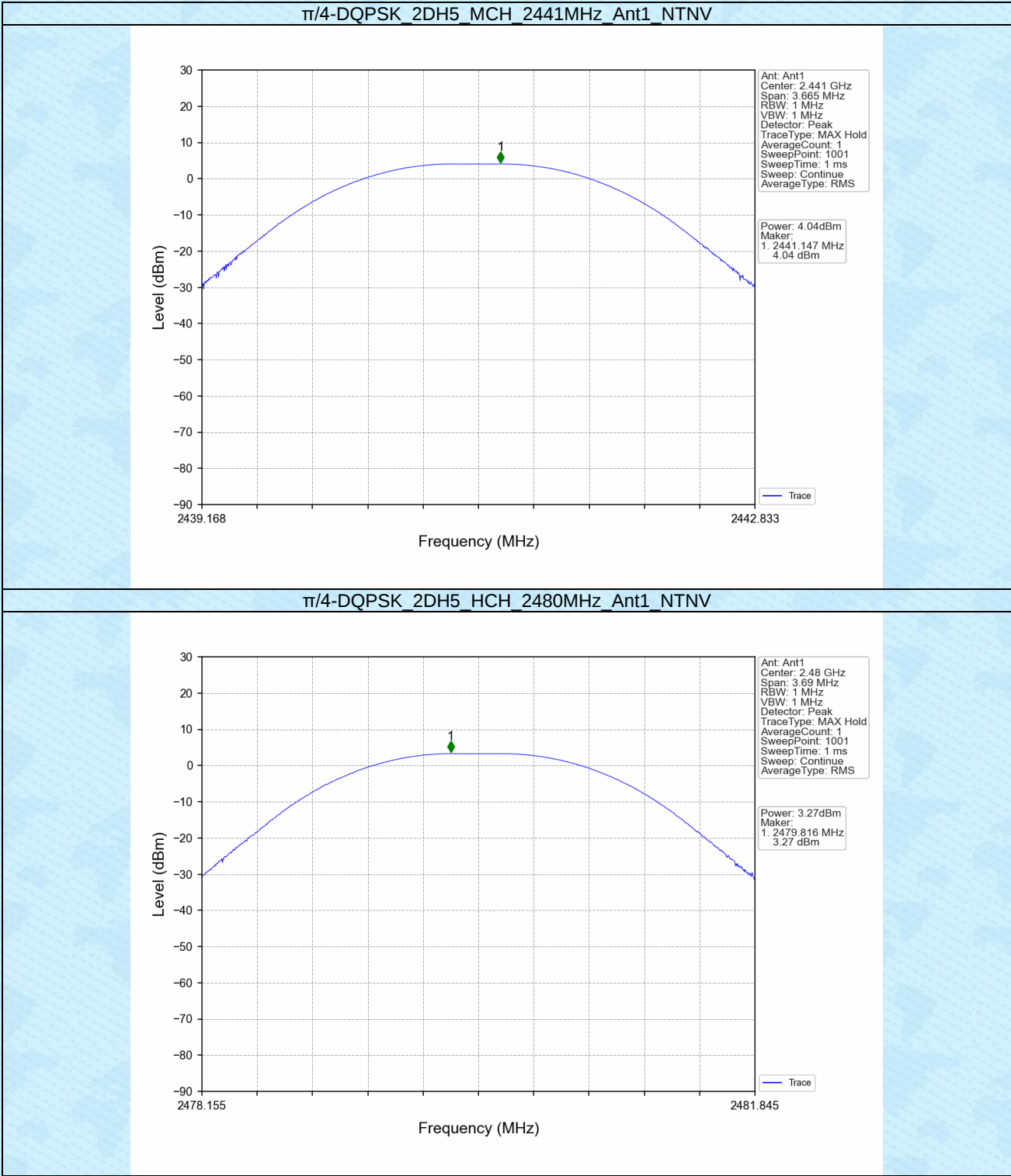
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	4.25	<=30	Pass
		2441	DH5	4.04	<=30	Pass
		2480	DH5	3.51	<=30	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	4.33	<=30	Pass
		2441	2DH5	4.04	<=30	Pass
		2480	2DH5	3.27	<=30	Pass
8-DPSK	SISO	2402	3DH5	4.28	<=30	Pass
		2441	3DH5	4.02	<=30	Pass
		2480	3DH5	3.38	<=30	Pass

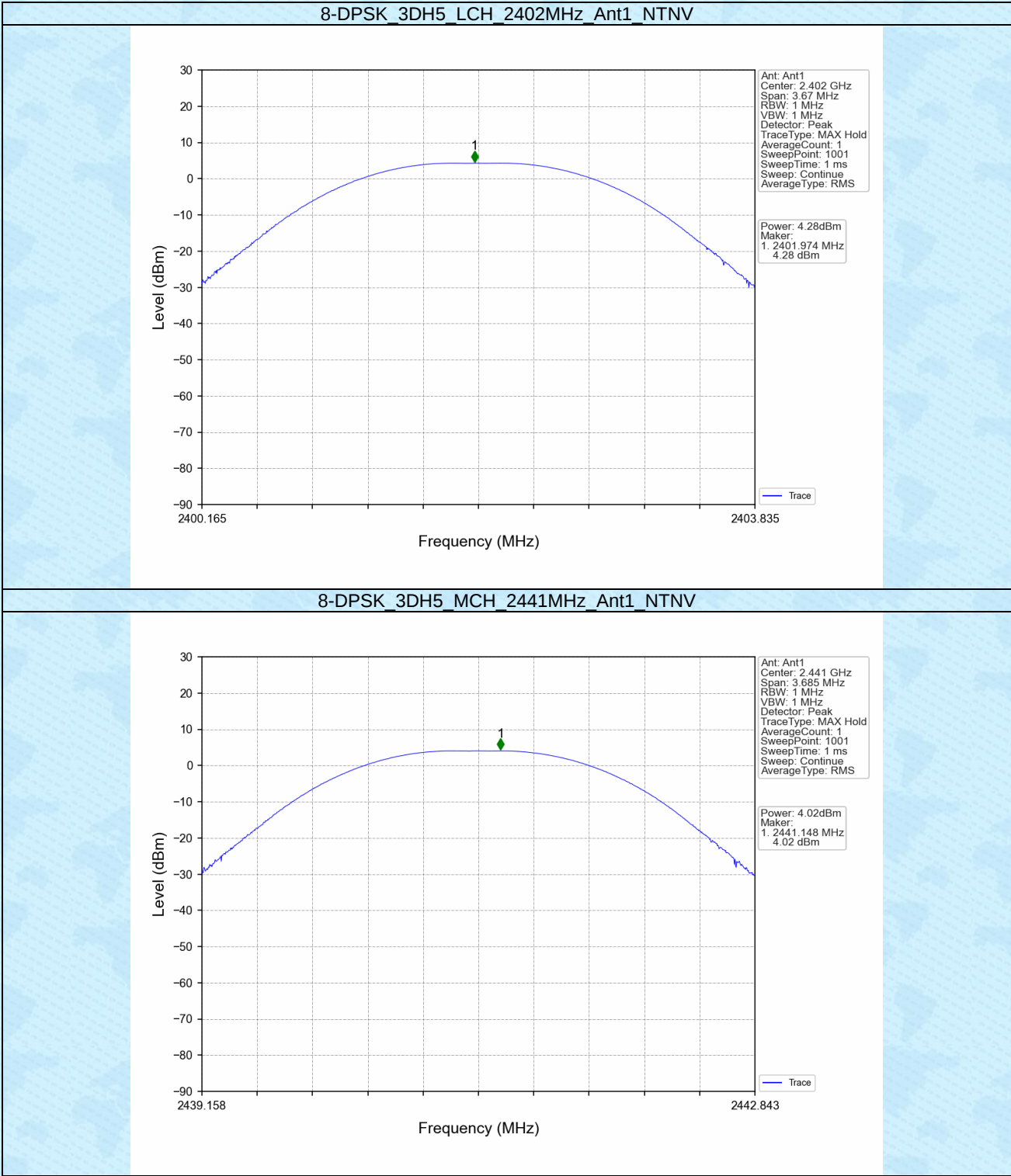
Note1: Antenna Gain: Ant1: 1.94dBi;

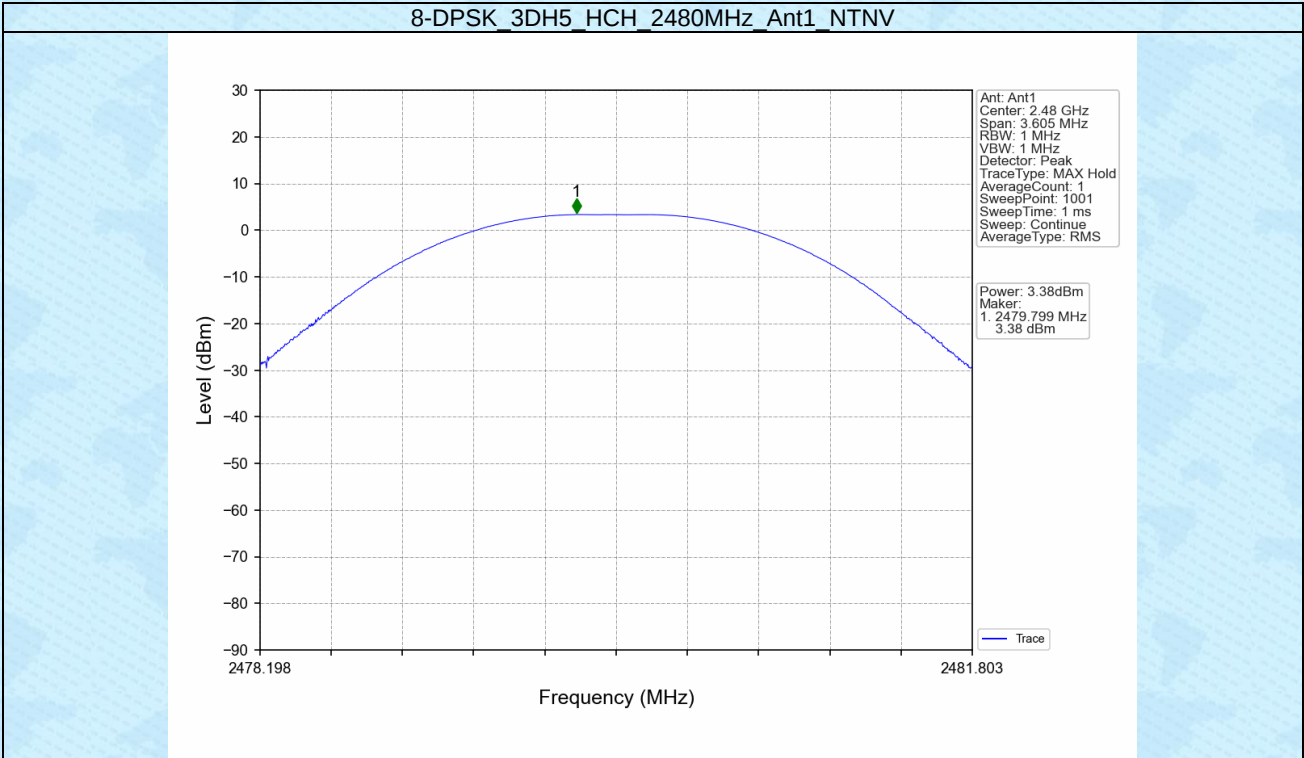
2.2 Test Graph









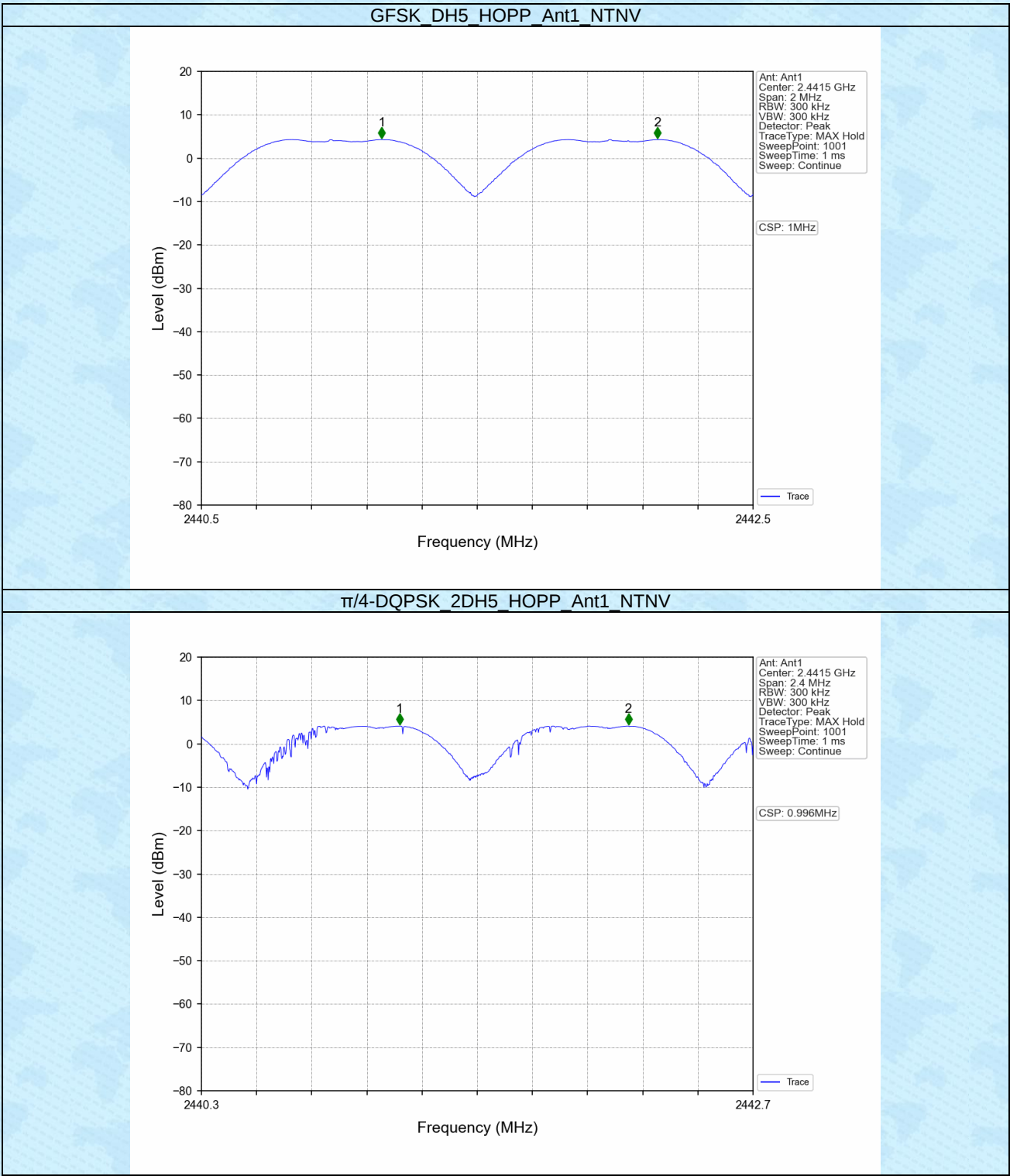


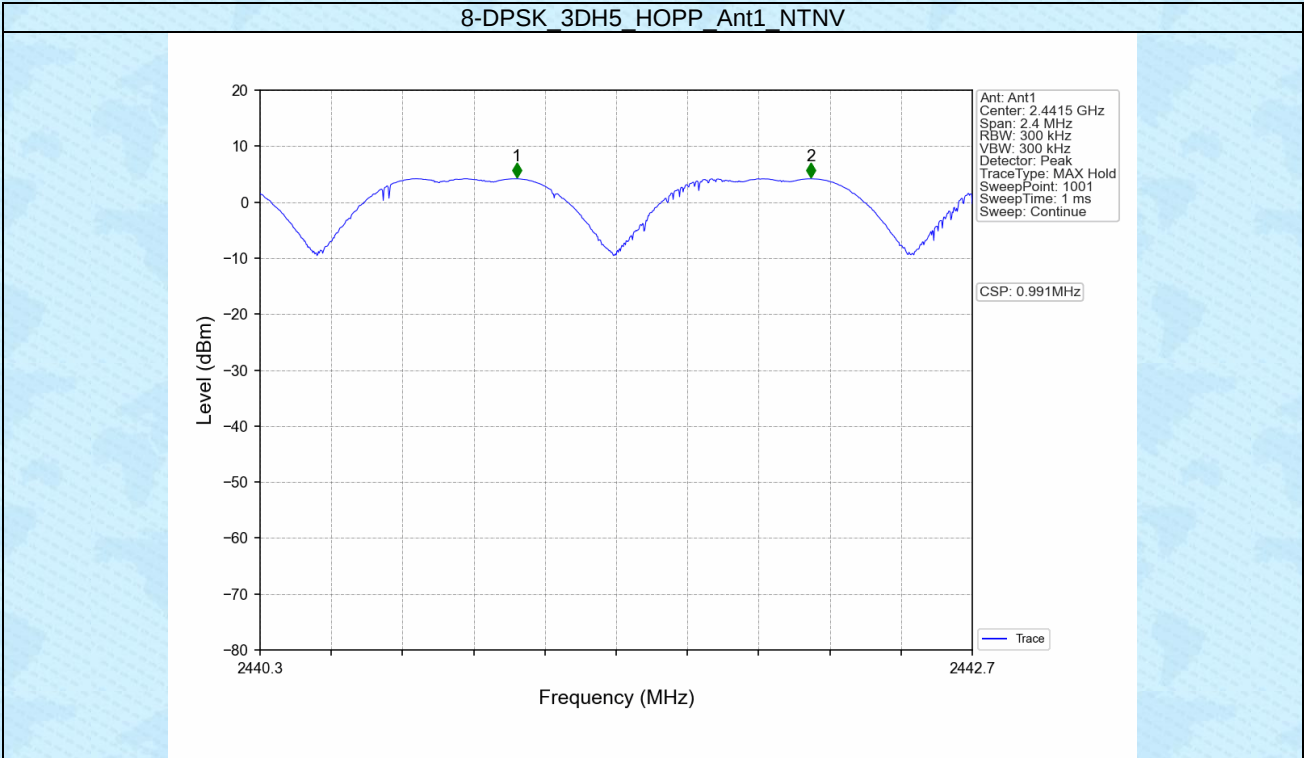
3. Carrier Frequency Separation

3.1 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	0.964	≥ 0.964	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	0.996	0.738	≥ 0.738	Pass
8-DPSK	SISO	HOPP	3DH5	0.991	0.737	≥ 0.737	Pass

3.2 Test Graph



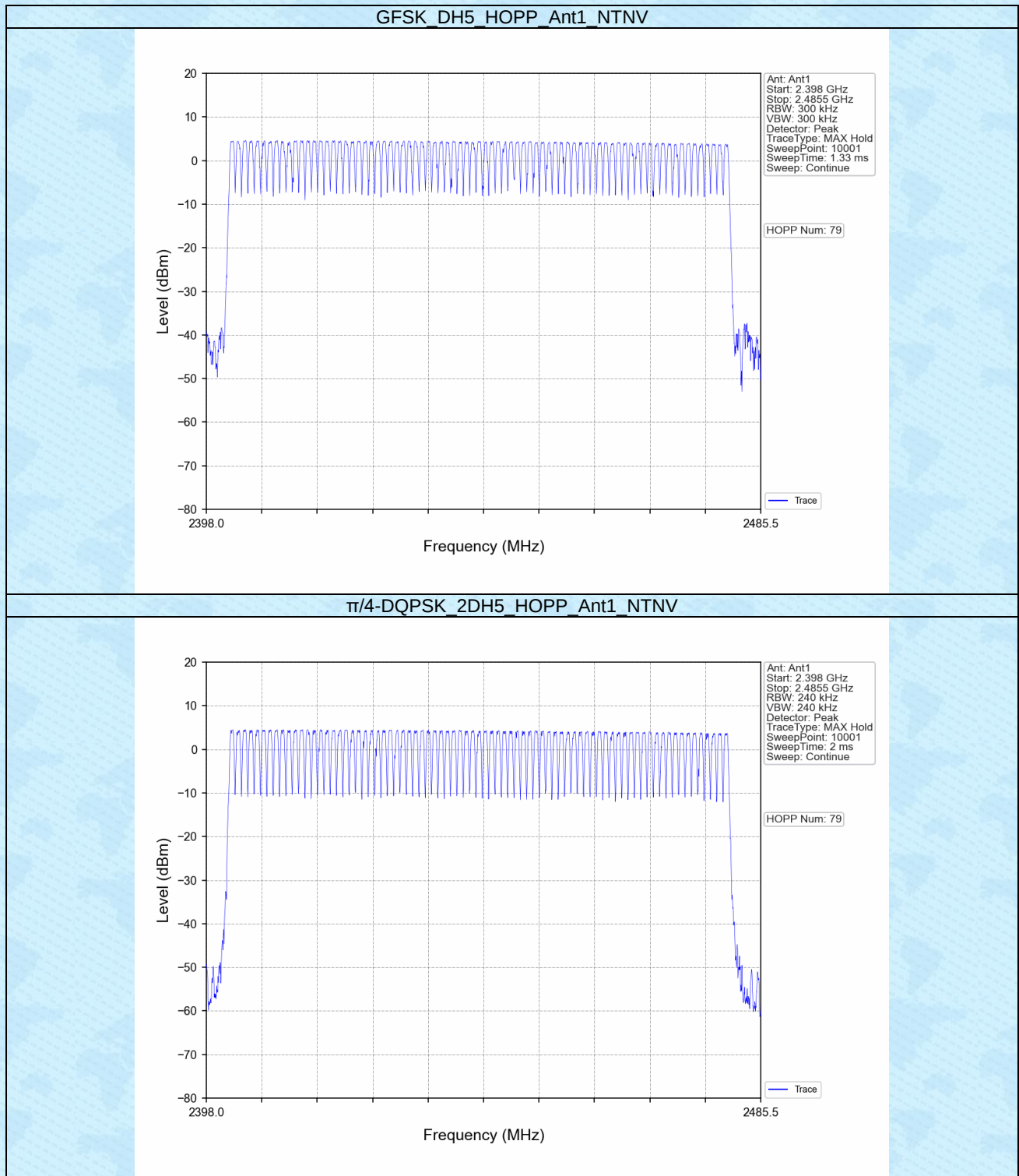


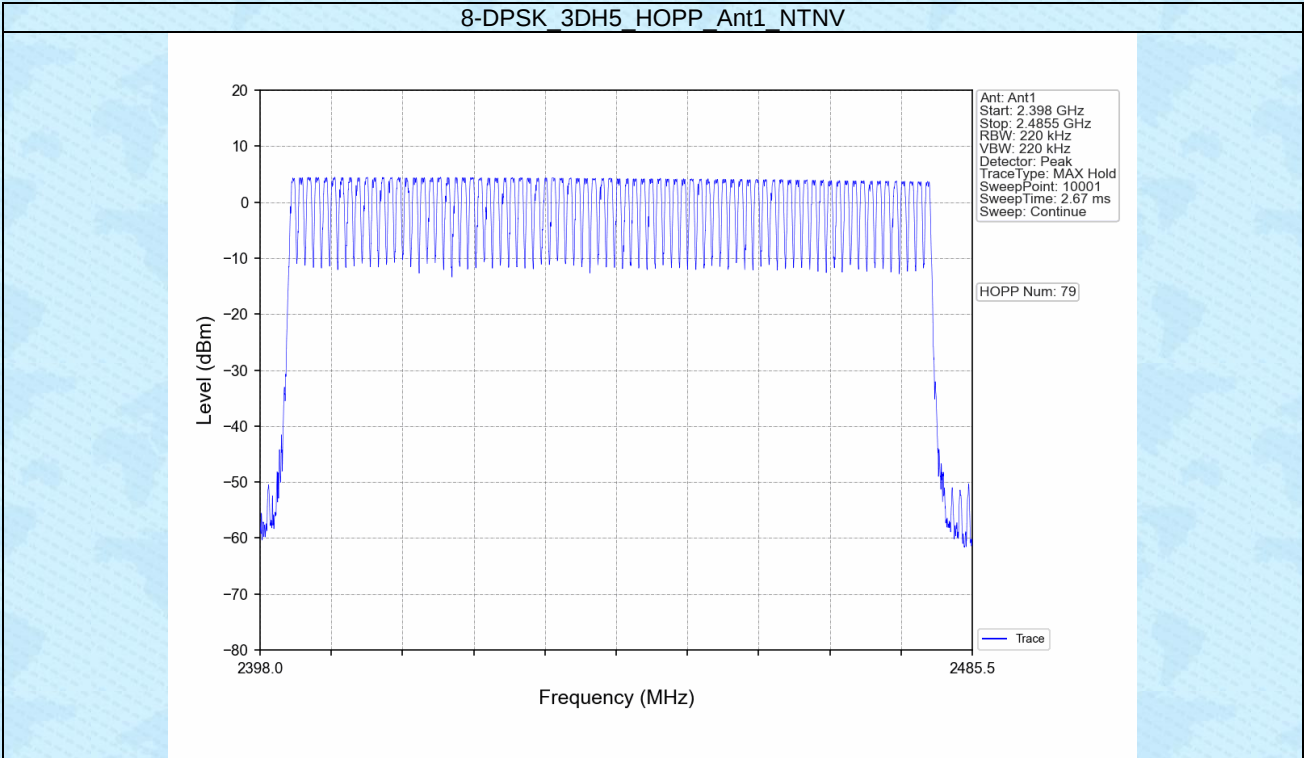
4. Number of Hopping Frequencies

4.1 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
8-DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

4.2 Test Graph



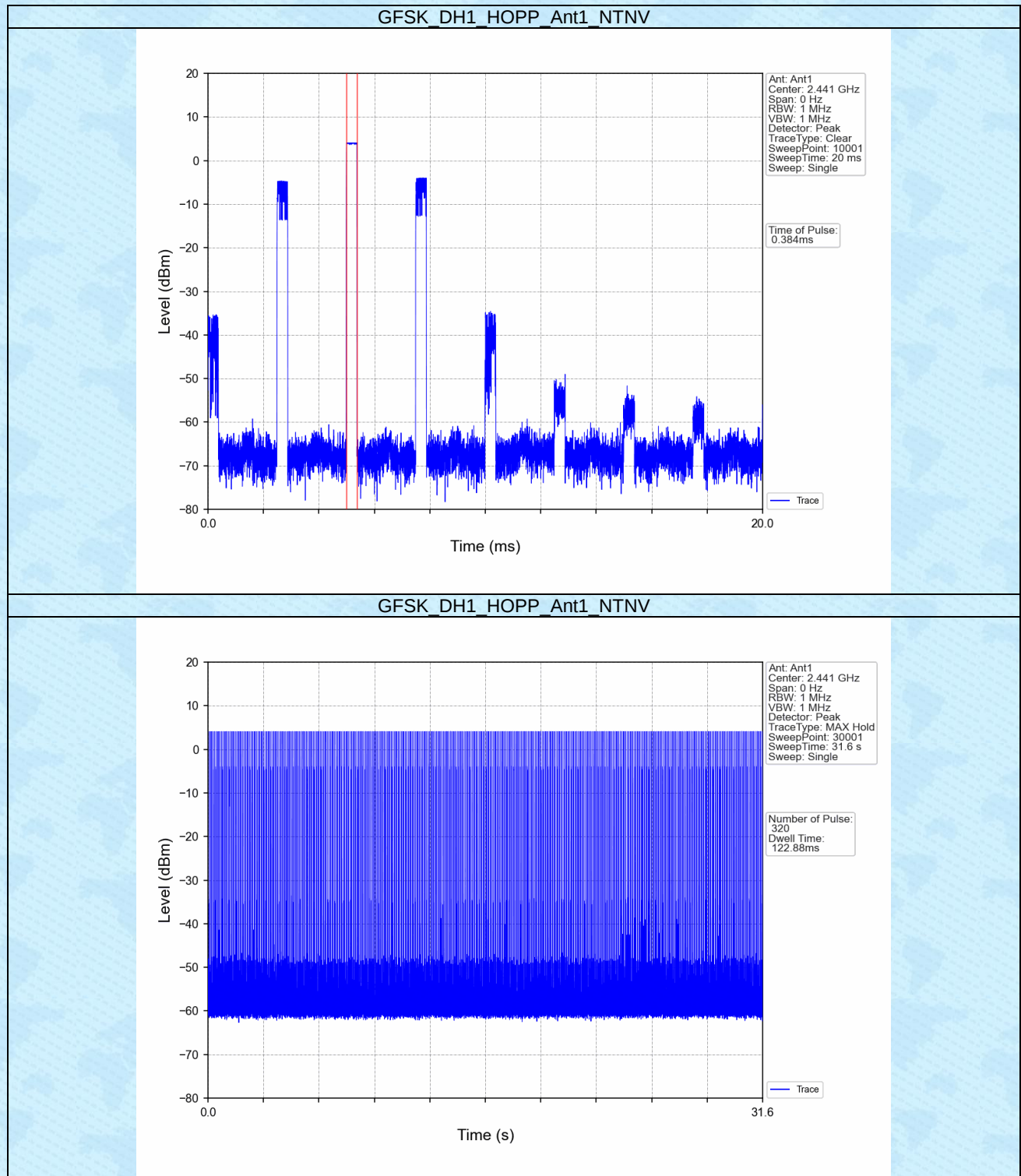


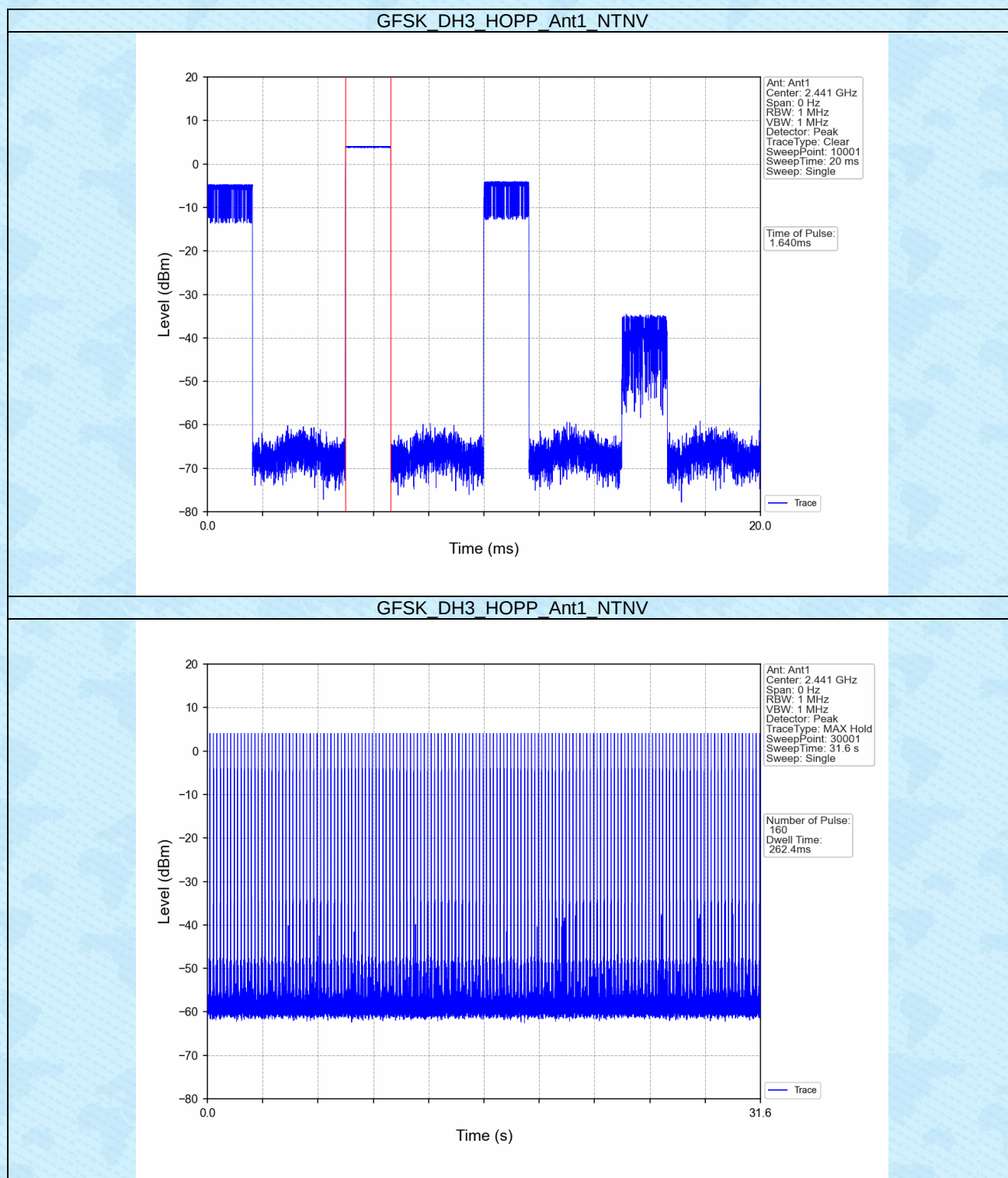
5. Time of Occupancy (Dwell Time)

5.1 Test Result

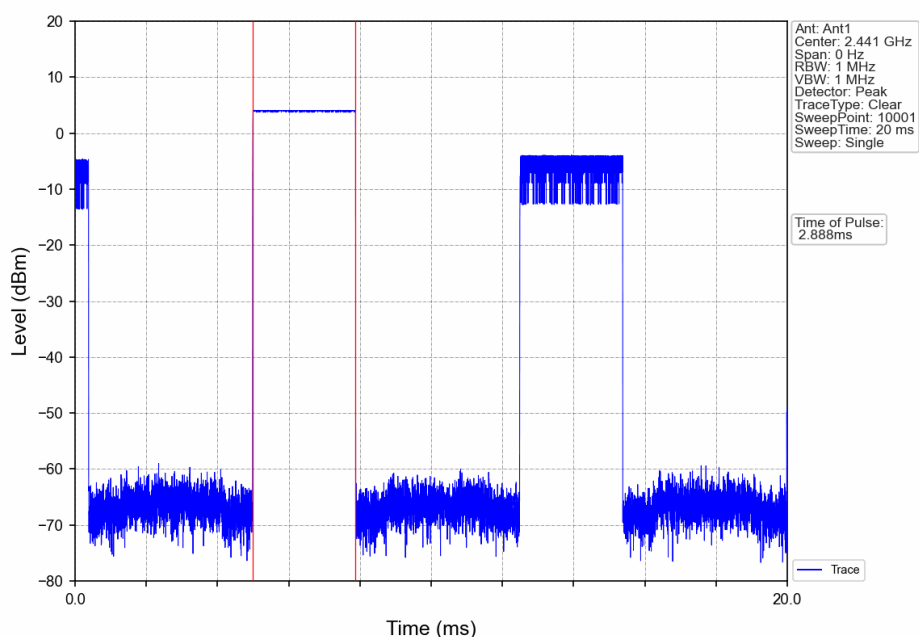
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	160	262.400	<=400	Pass
			DH5	2.888	31.600	106	306.128	<=400	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.384	31.600	320	122.880	<=400	Pass
			2DH3	1.634	31.600	160	261.440	<=400	Pass
			2DH5	2.884	31.600	107	308.588	<=400	Pass
8-DPSK	SISO	HOPP	3DH1	0.386	31.600	320	123.520	<=400	Pass
			3DH3	0.386	31.600	320	123.520	<=400	Pass
			3DH5	2.886	31.600	107	308.802	<=400	Pass

5.2 Test Graph

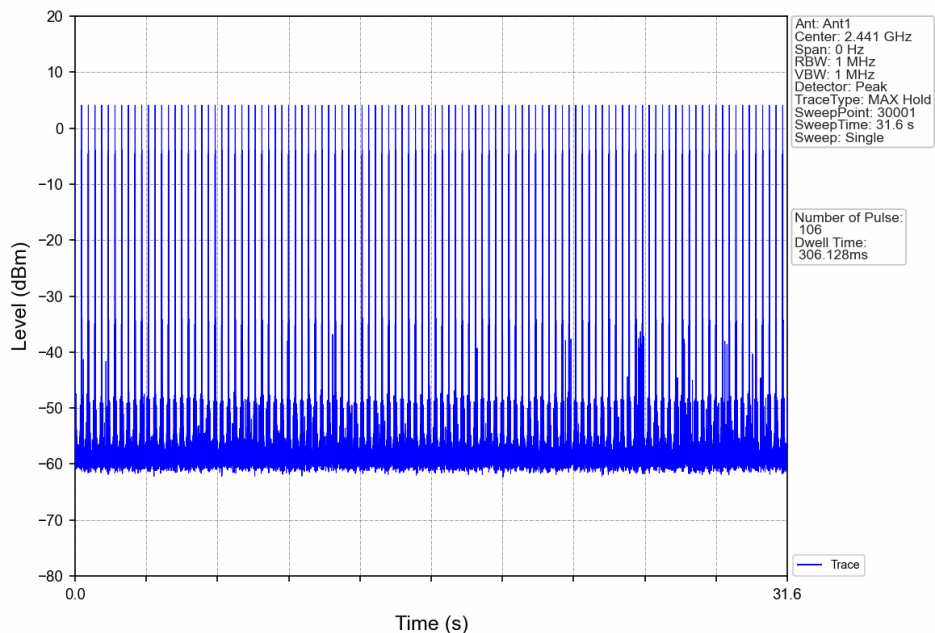




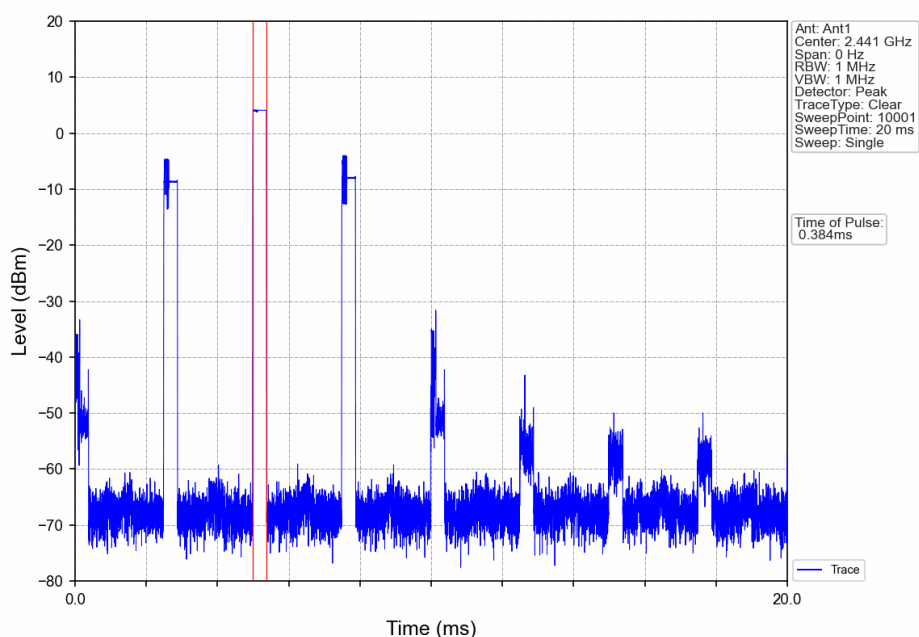
GFSK DH5_HOPP_Ant1_NTNV



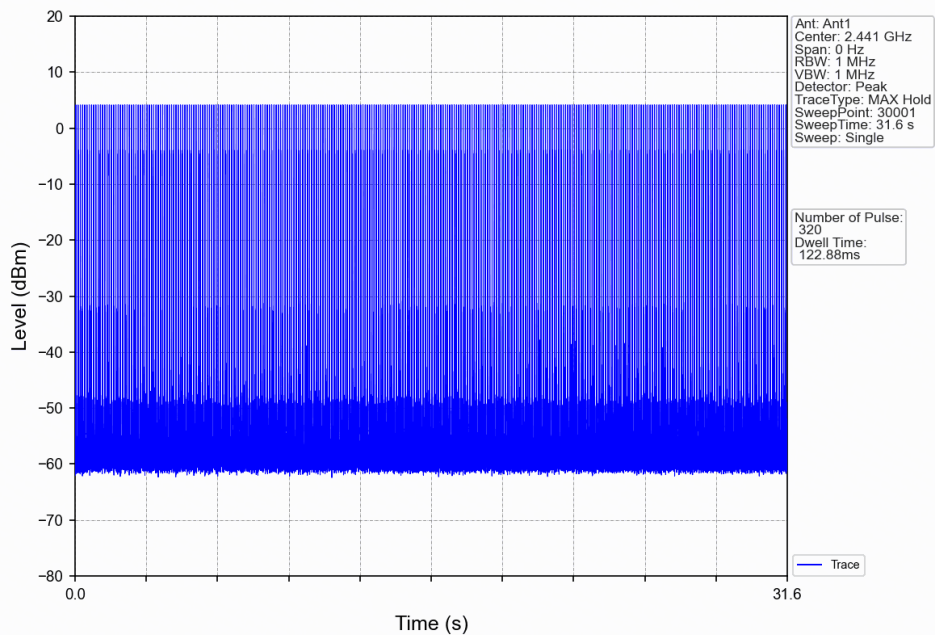
GFSK DH5_HOPP_Ant1_NTNV



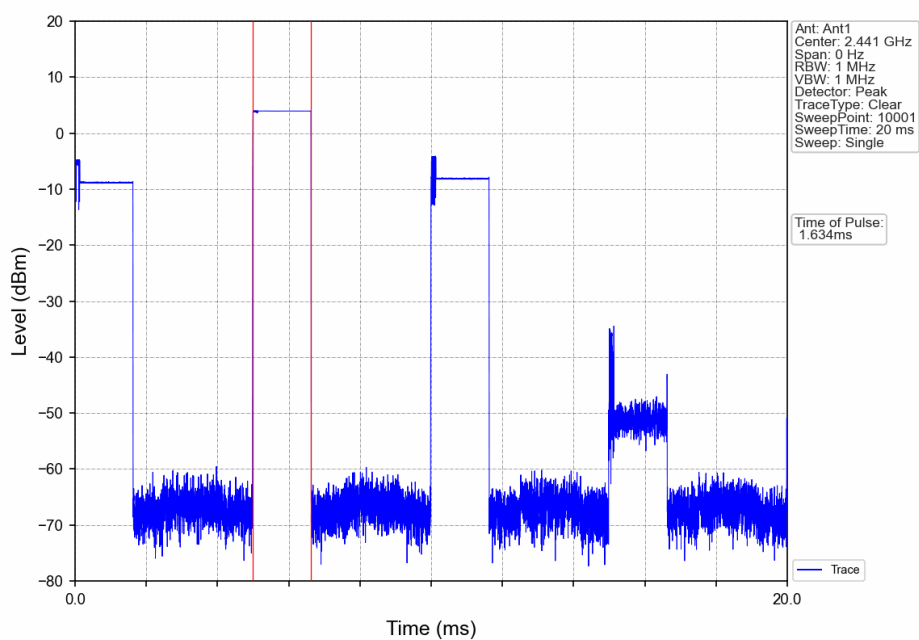
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV



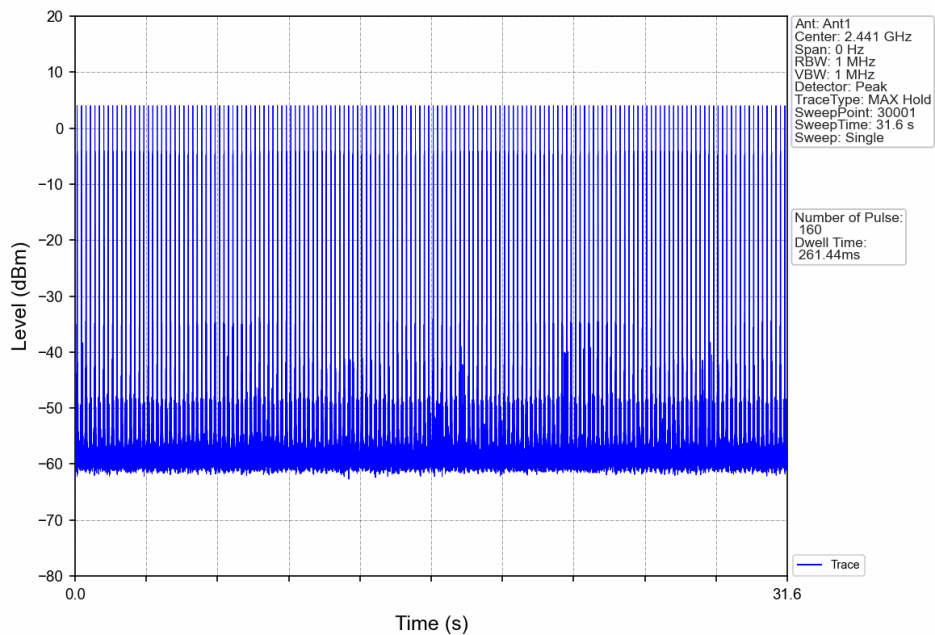
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV



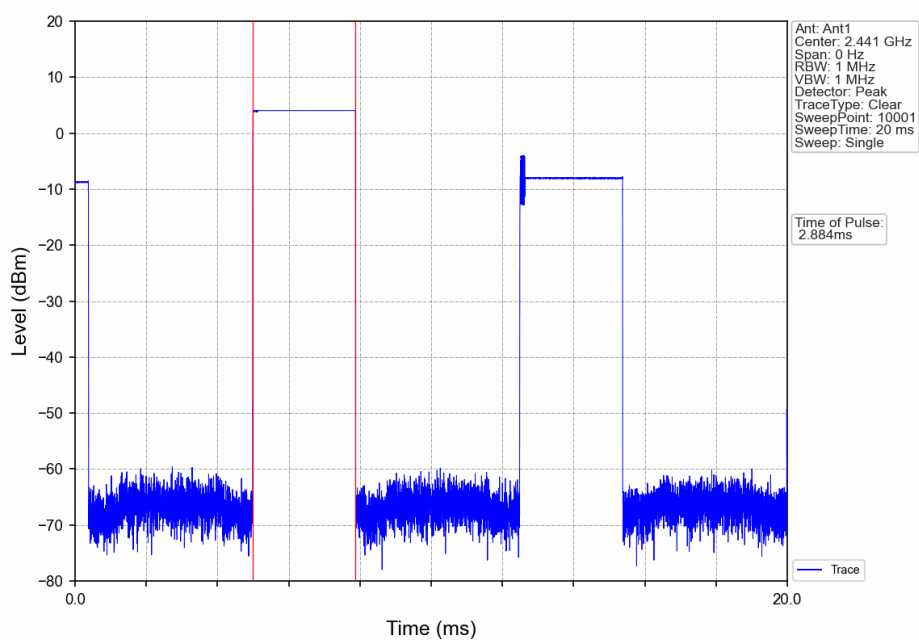
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



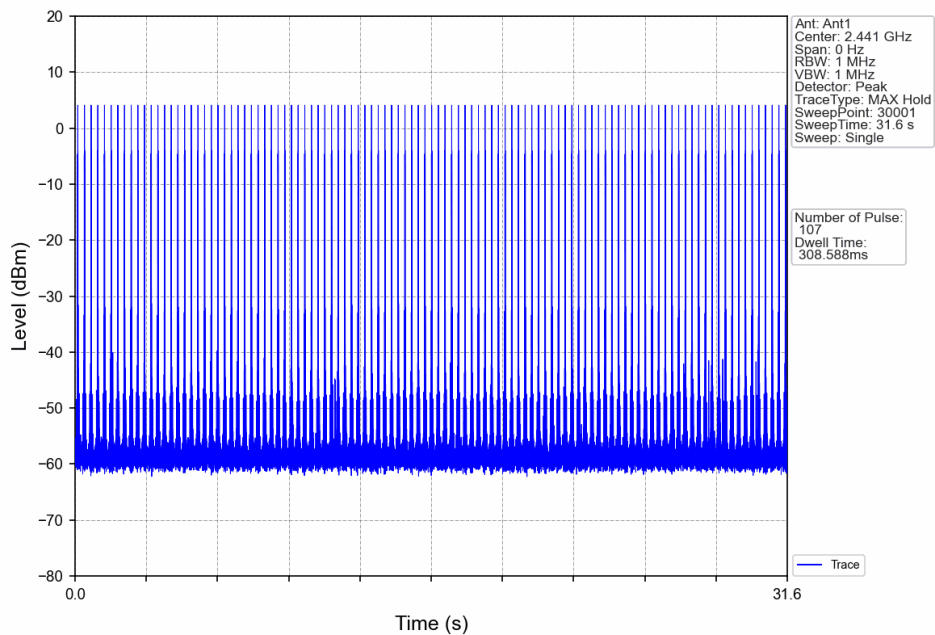
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV

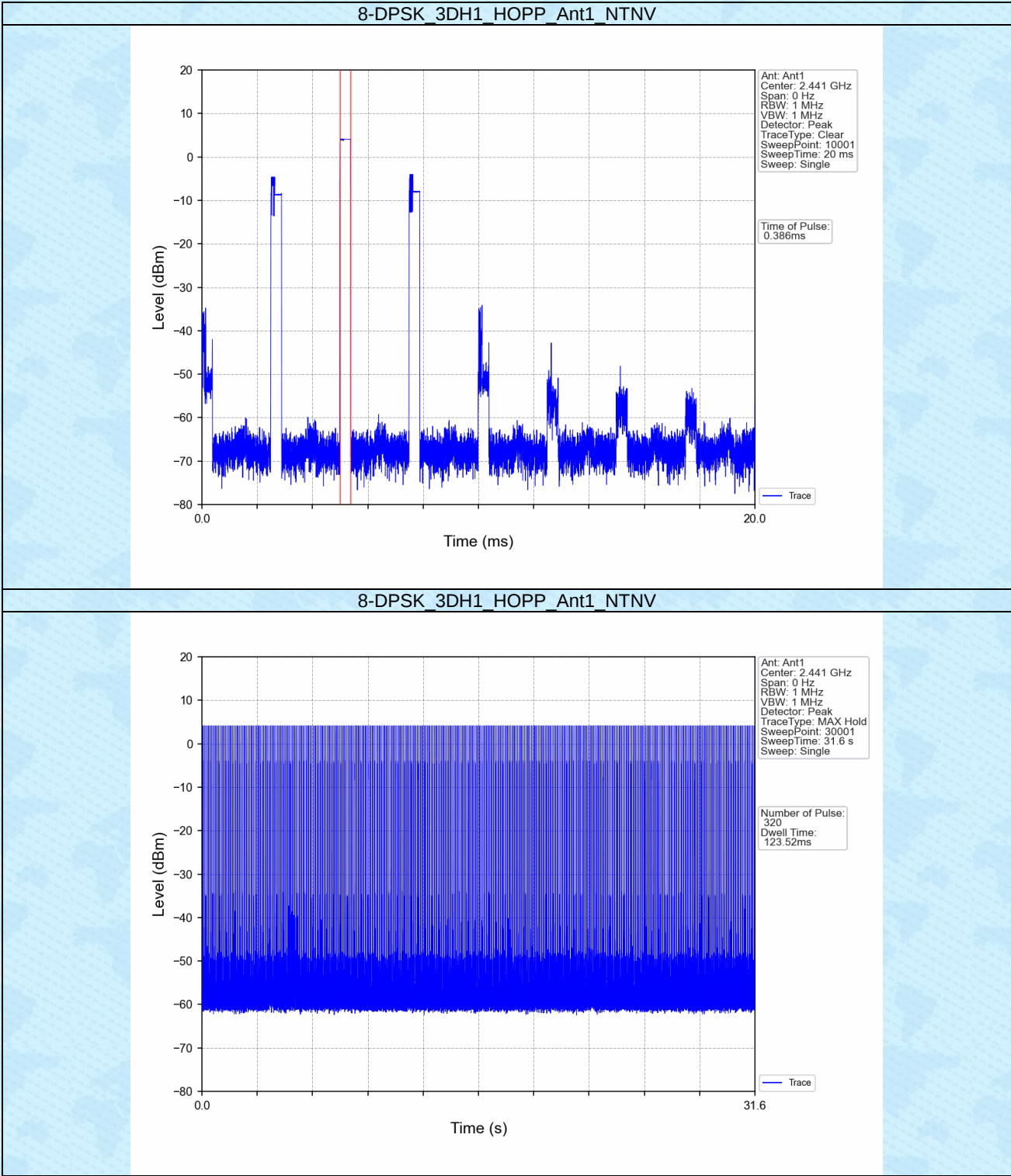


$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV

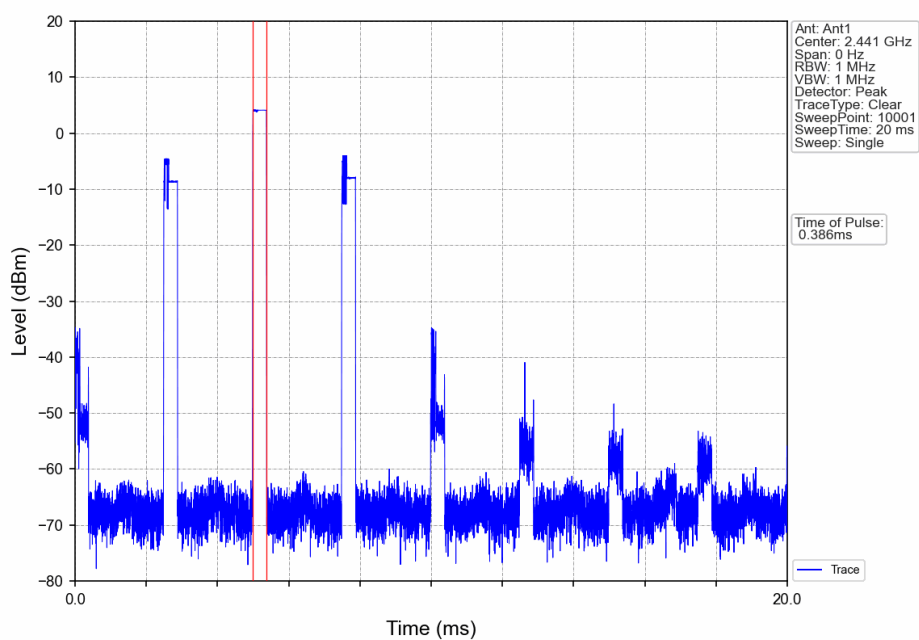


$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV

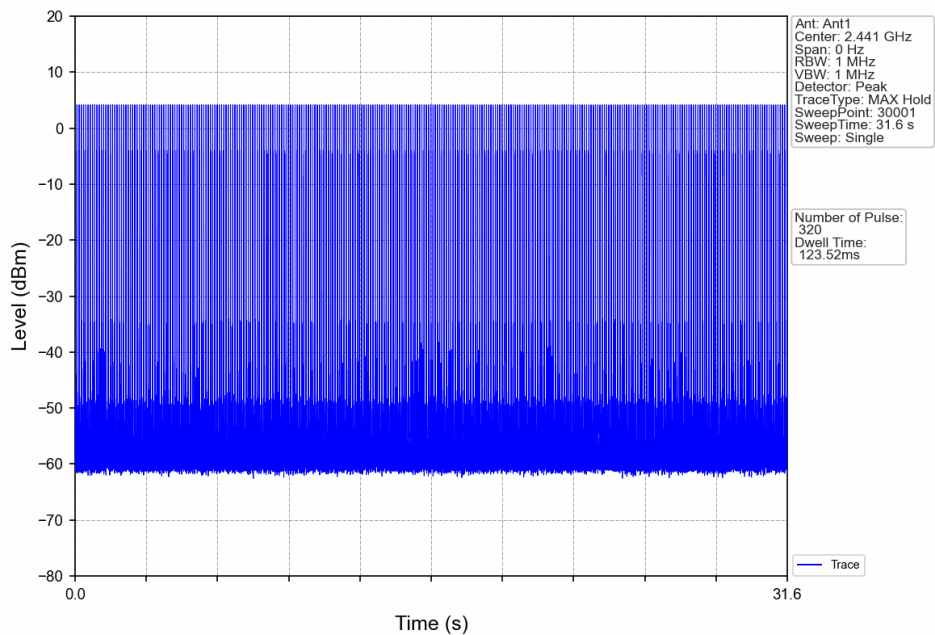




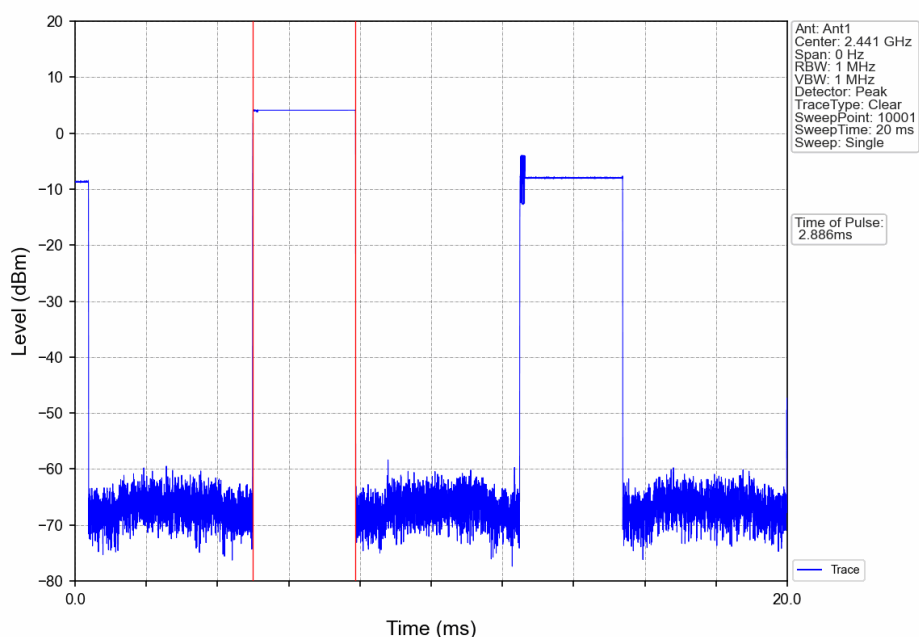
8-DPSK 3DH3 HOPP Ant1 NTN



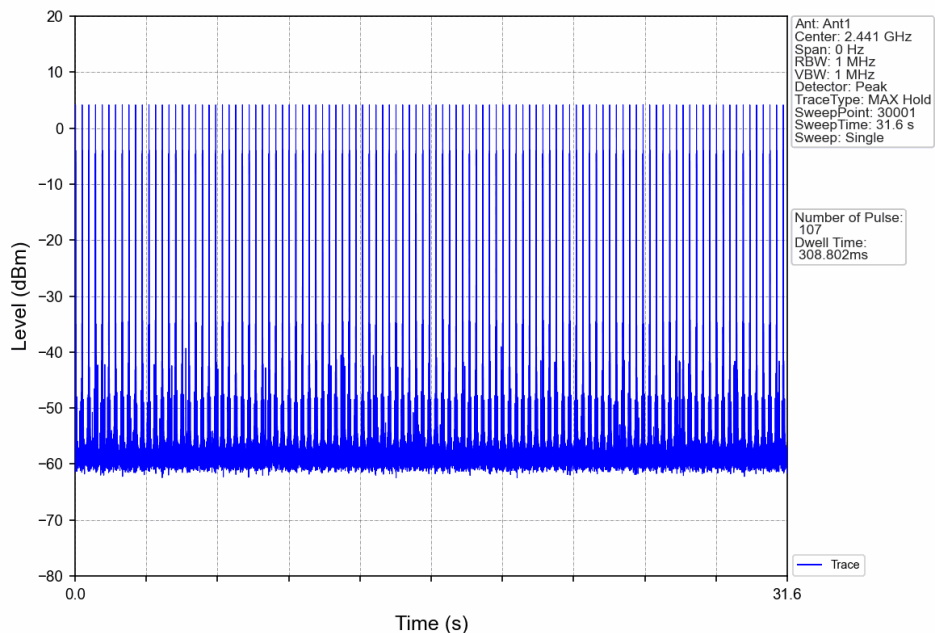
8-DPSK 3DH3 HOPP Ant1 NTN



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

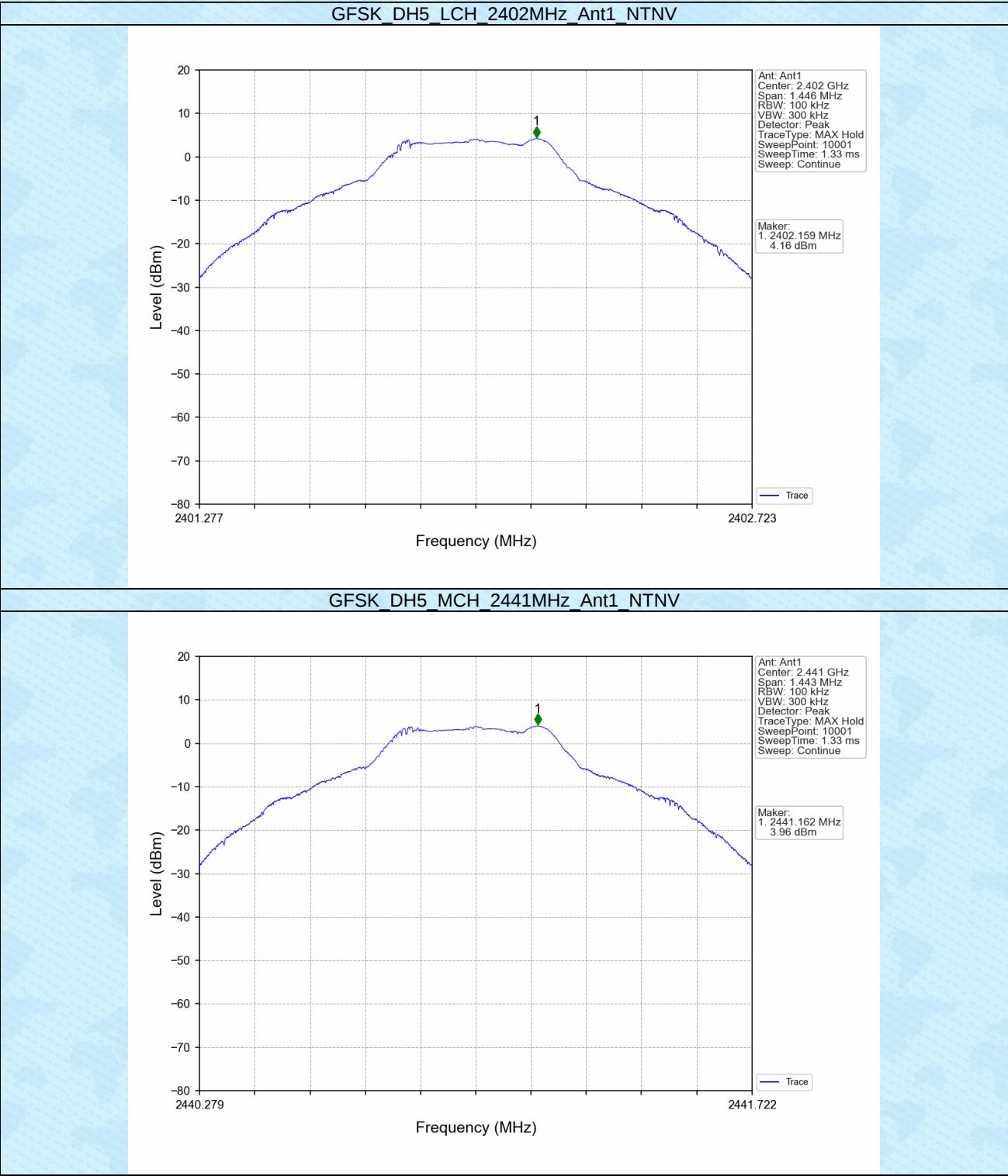
6.1 Ref

6.1.1 Test Result

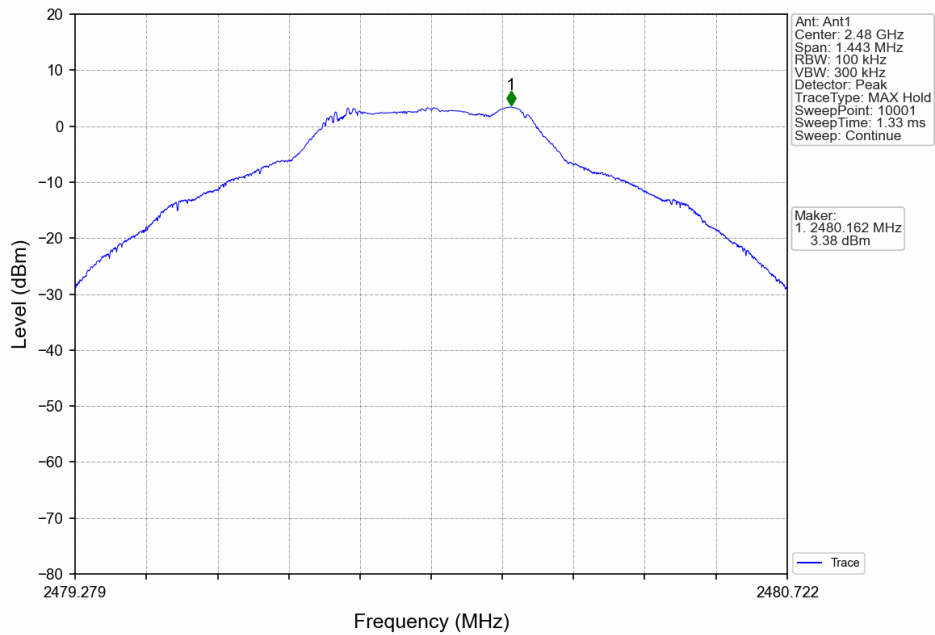
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	4.16
		2441	DH5	1	3.96
		2480	DH5	1	3.38
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	4.21
		2441	2DH5	1	3.89
		2480	2DH5	1	3.11
8-DPSK	SISO	2402	3DH5	1	4.21
		2441	3DH5	1	3.95
		2480	3DH5	1	3.26

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

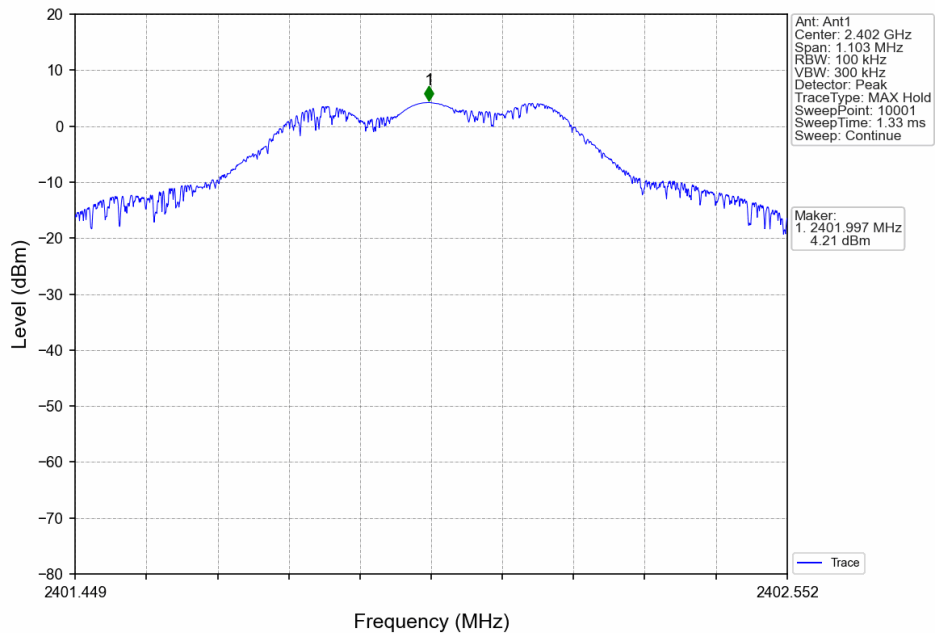
6.1.2 Test Graph



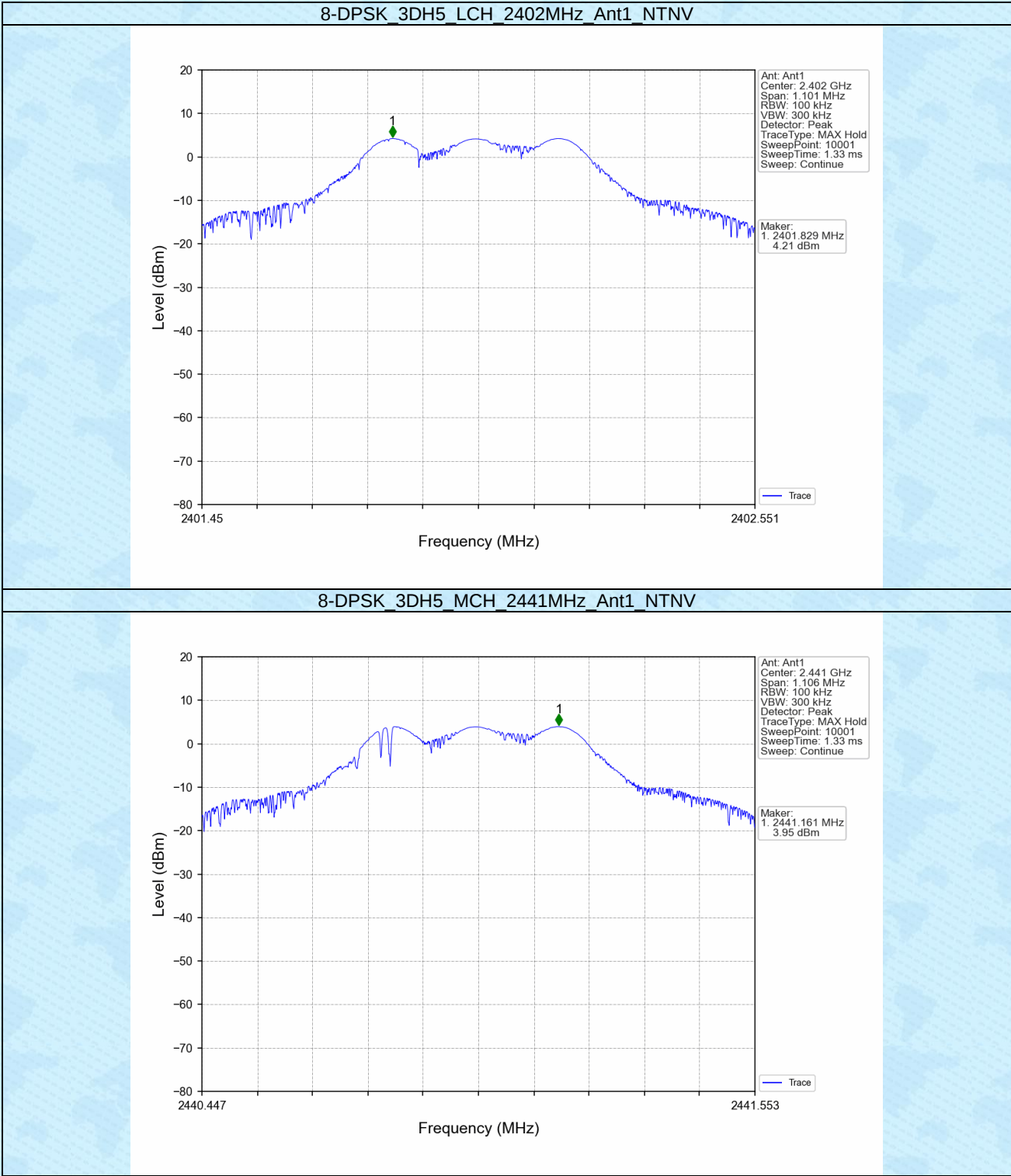
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

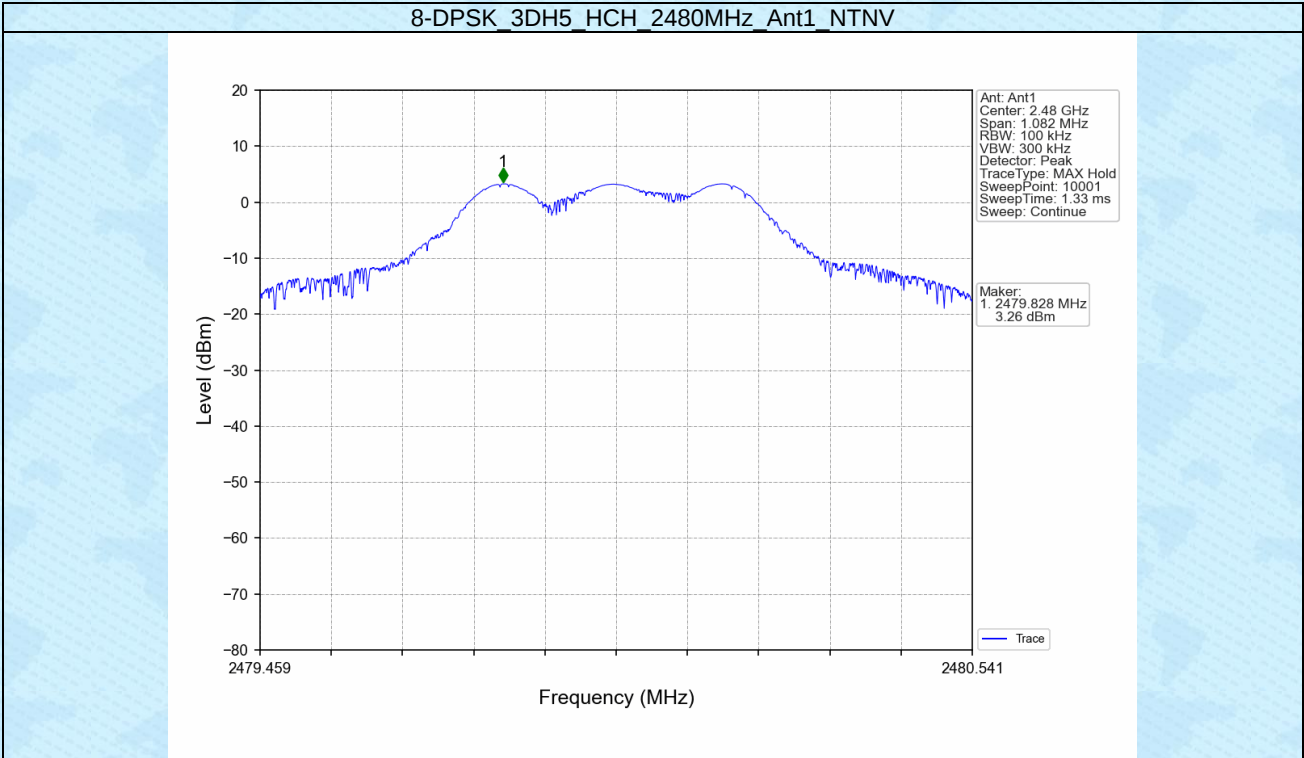


$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV







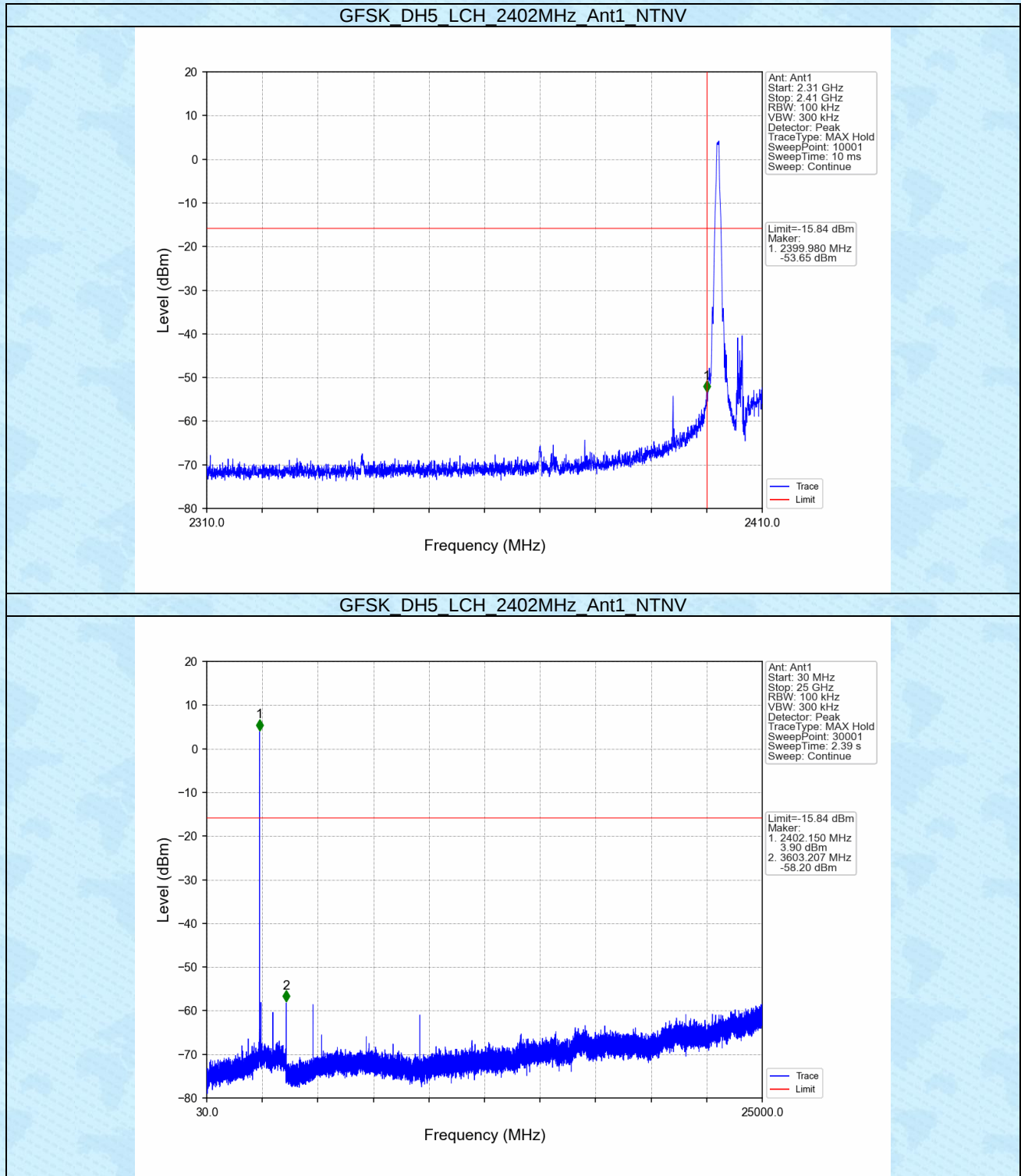


6.2 CSE

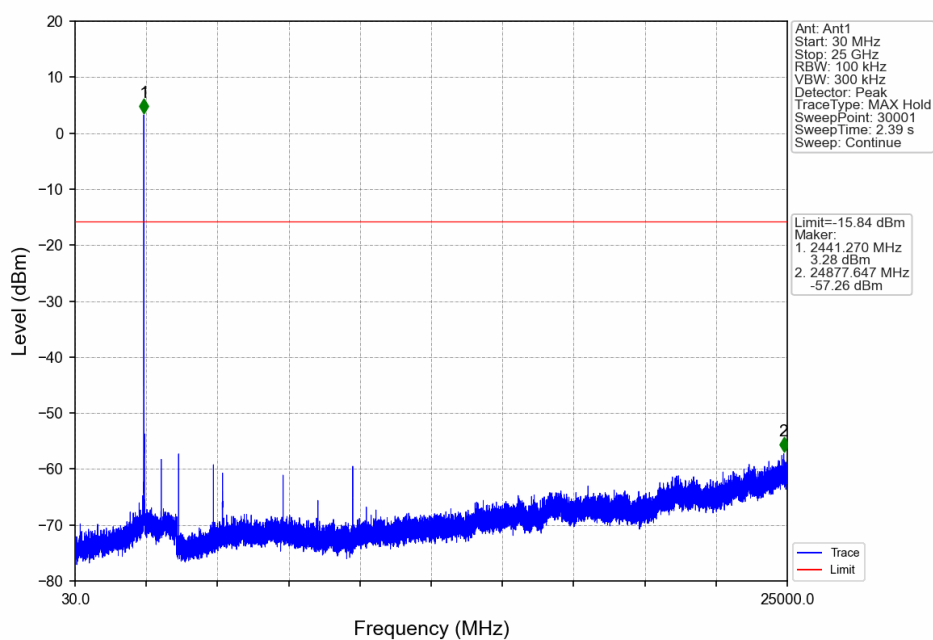
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.16	-15.84	Pass
		2441	DH5	1	4.16	-15.84	Pass
		2480	DH5	1	4.16	-15.84	Pass
		HOPP	DH5	1	4.16	-15.84	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	4.21	-15.79	Pass
		2441	2DH5	1	4.21	-15.79	Pass
		2480	2DH5	1	4.21	-15.79	Pass
		HOPP	2DH5	1	4.21	-15.79	Pass
8-DPSK	SISO	2402	3DH5	1	4.21	-15.79	Pass
		2441	3DH5	1	4.21	-15.79	Pass
		2480	3DH5	1	4.21	-15.79	Pass
		HOPP	3DH5	1	4.21	-15.79	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10, the channel contains the maximum PSD level was used to establish the reference level.							

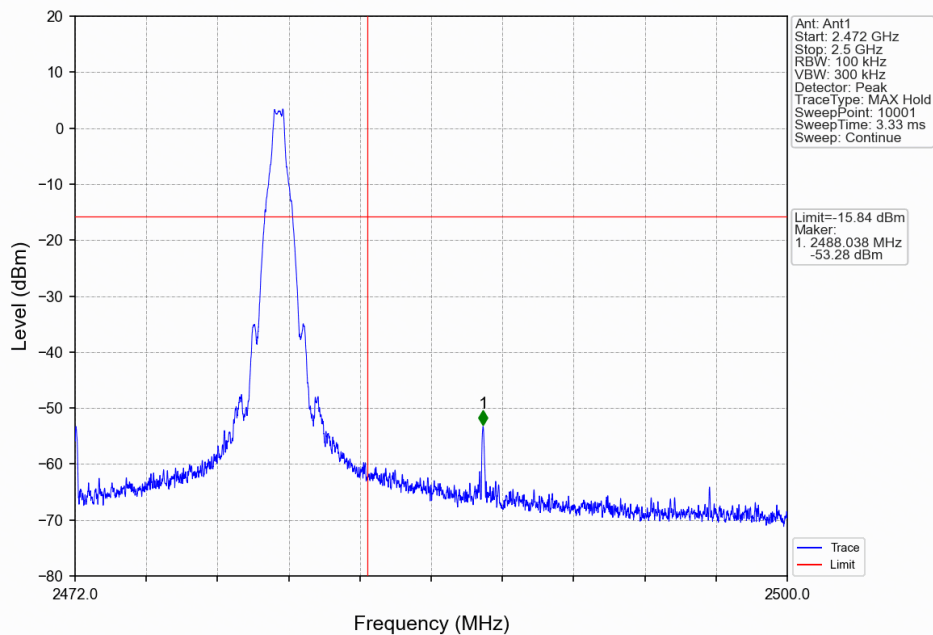
6.2.2 Test Graph



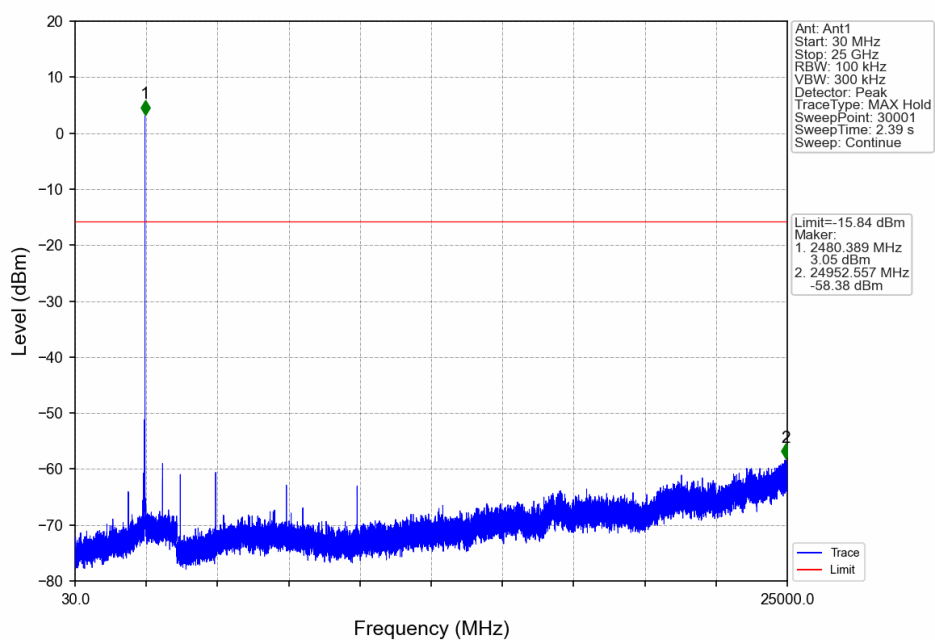
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



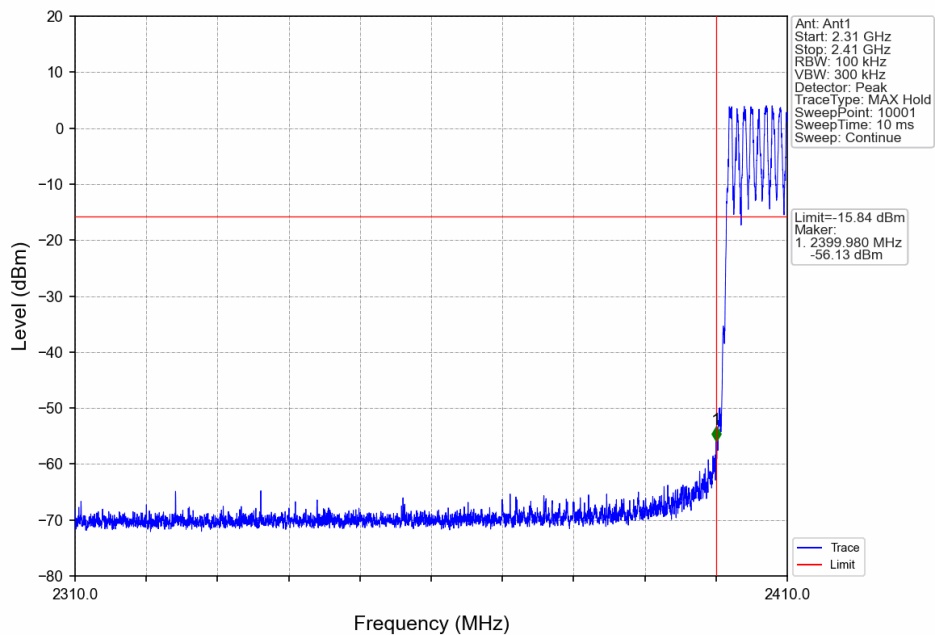
GFSK_DH5_HCH_2480MHz_Ant1_NTNV

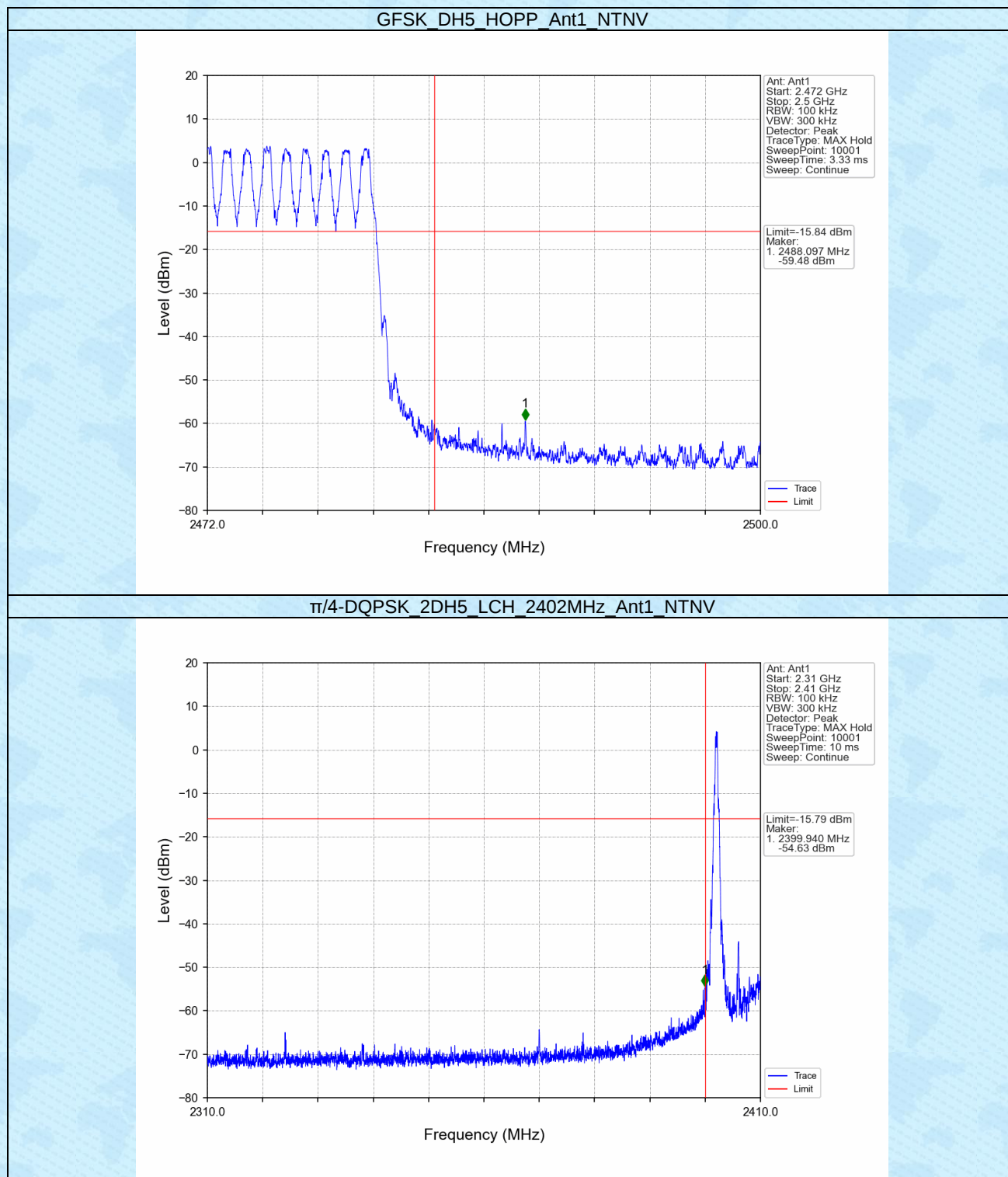


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

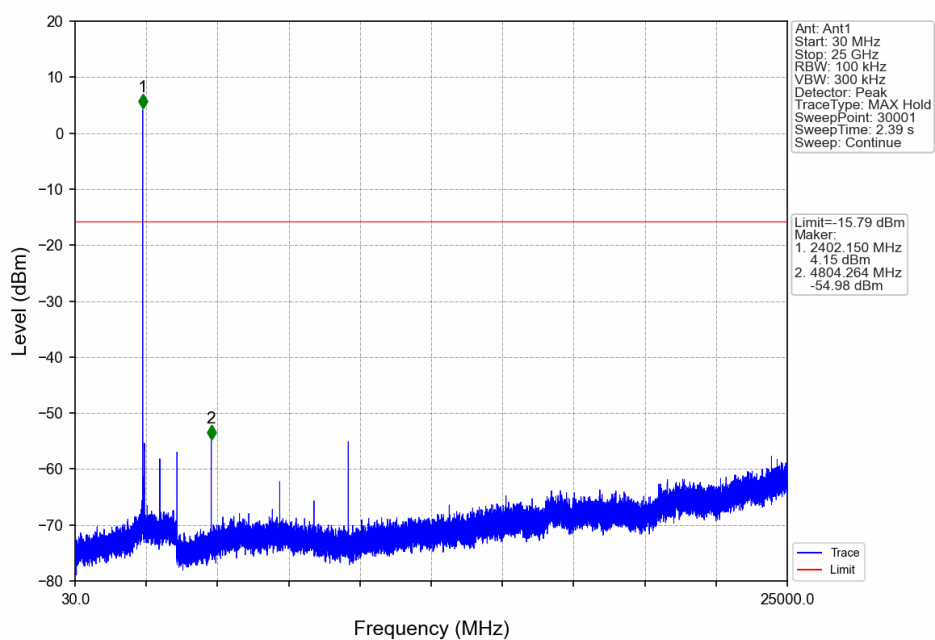


GFSK_DH5_HOPP_Ant1_NTNV

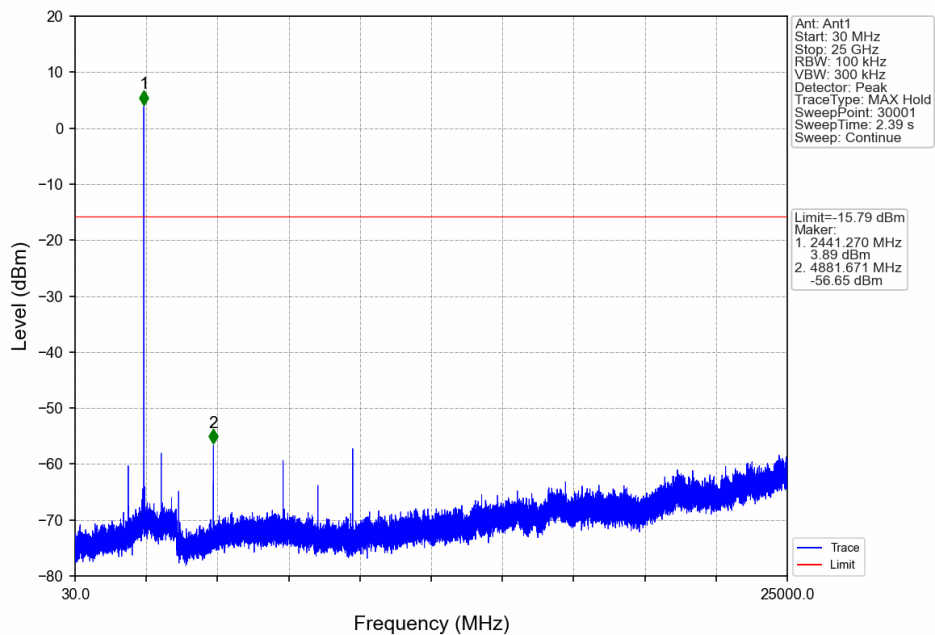




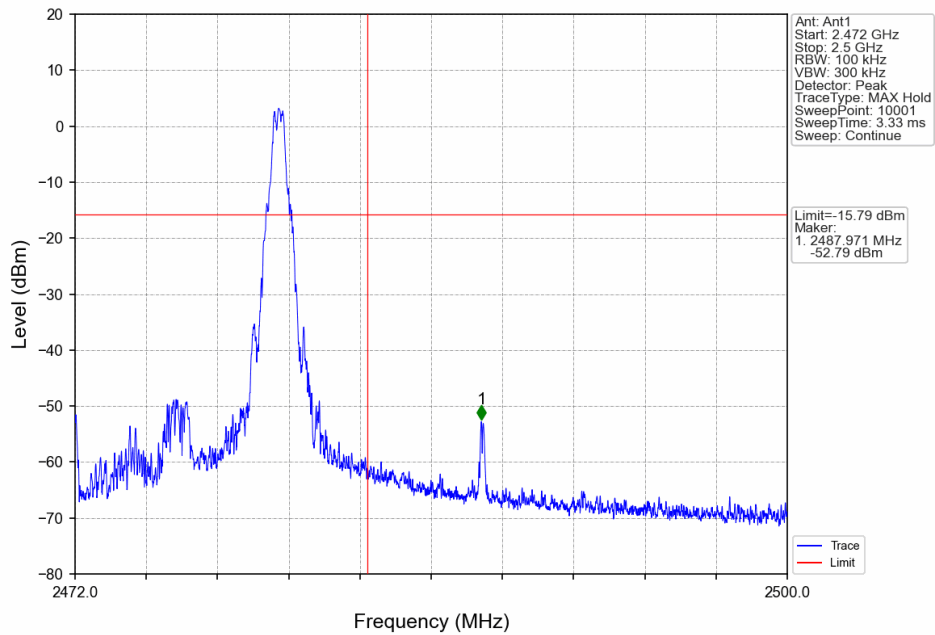
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



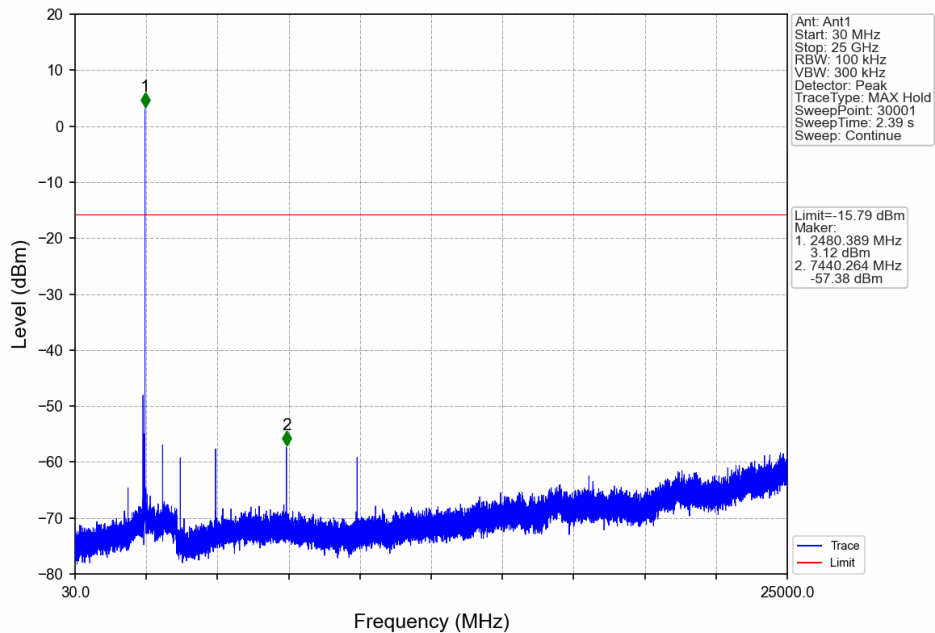
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



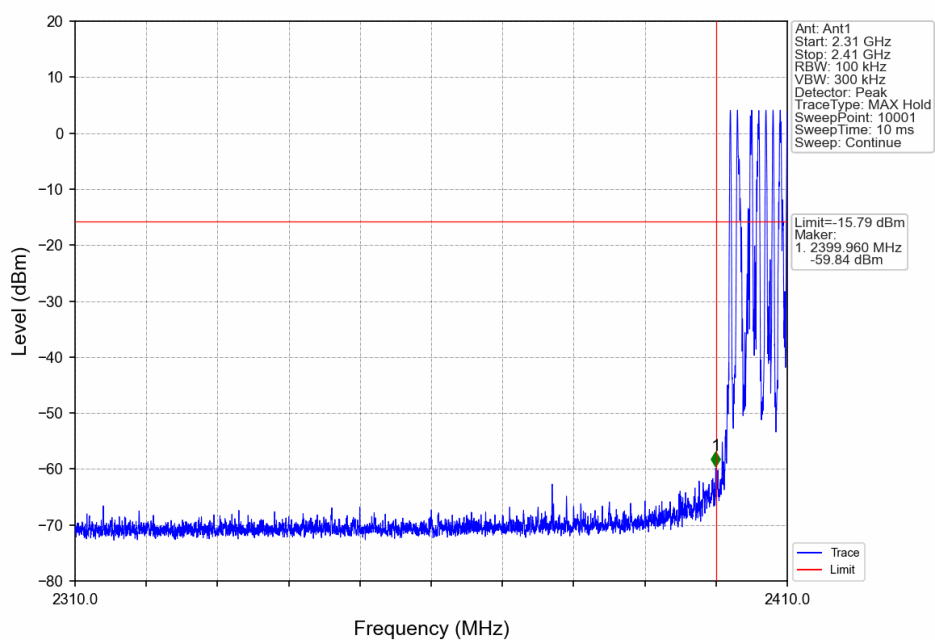
$\pi/4$ -DQPSK 2DH5 HCH 2480MHz Ant1 NTN



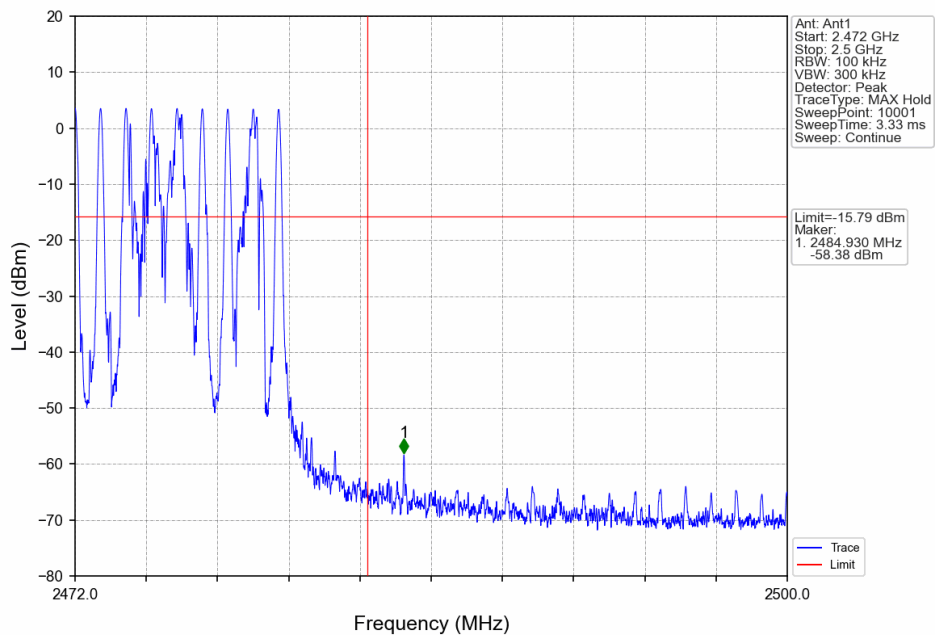
$\pi/4$ -DQPSK 2DH5 HCH 2480MHz Ant1 NTN



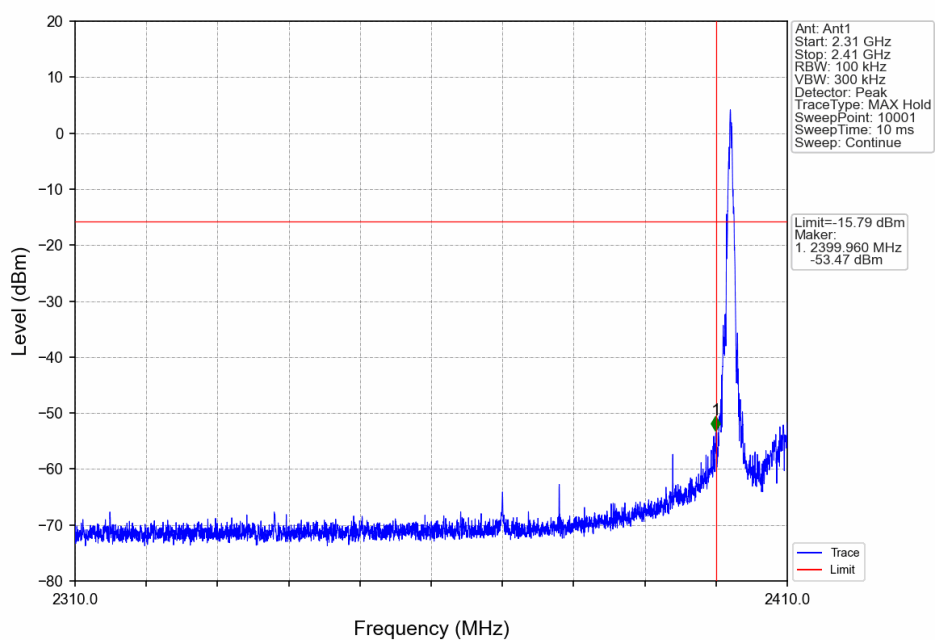
$\pi/4$ -DQPSK 2DH5_HOPP_Ant1_NTNV



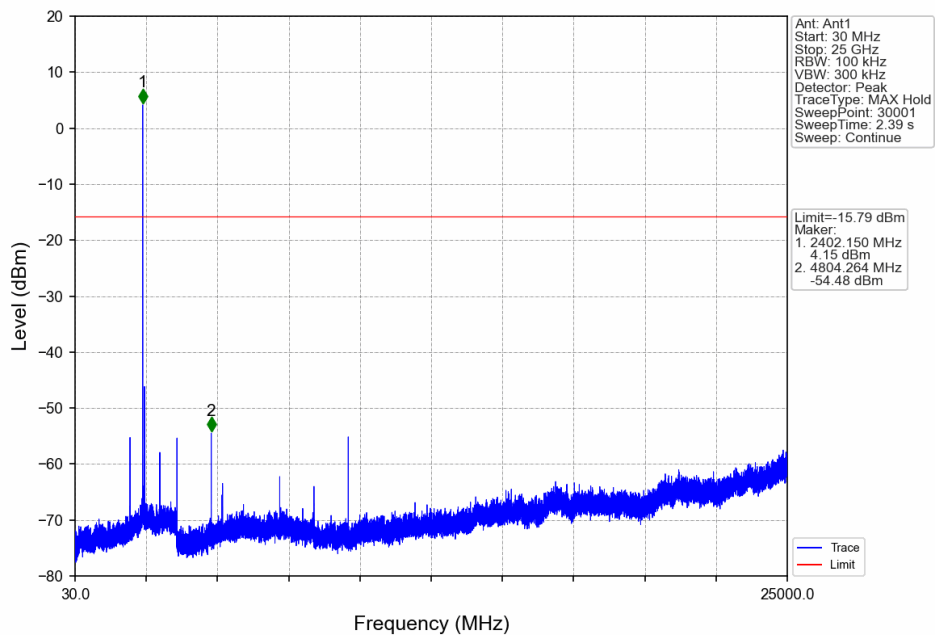
$\pi/4$ -DQPSK 2DH5_HOPP_Ant1_NTNV



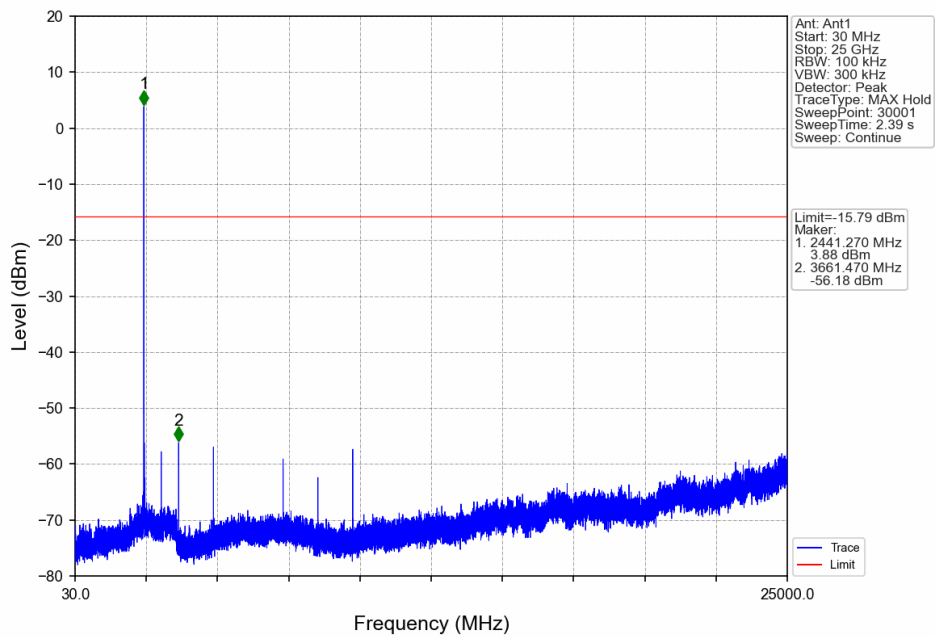
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



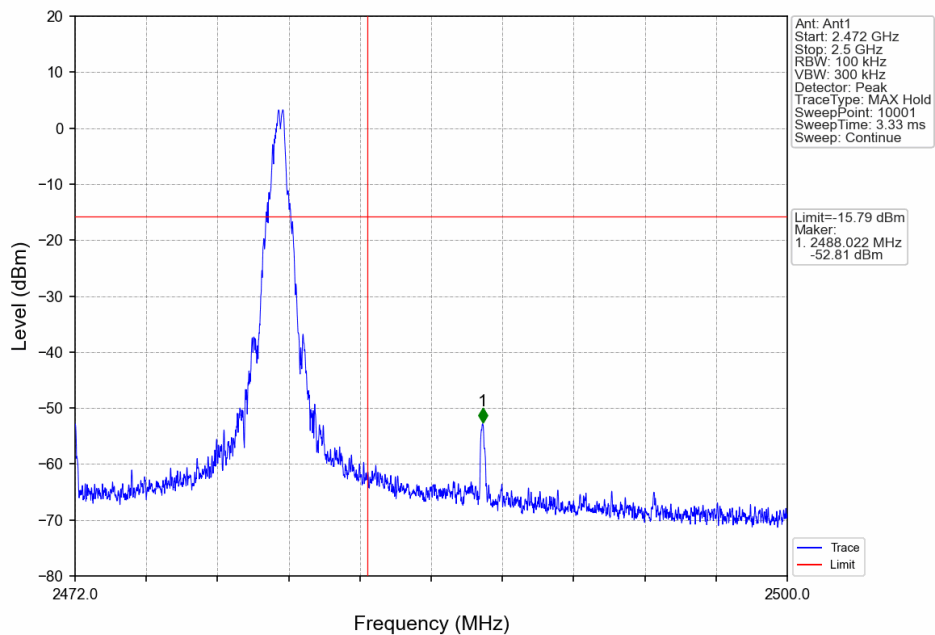
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



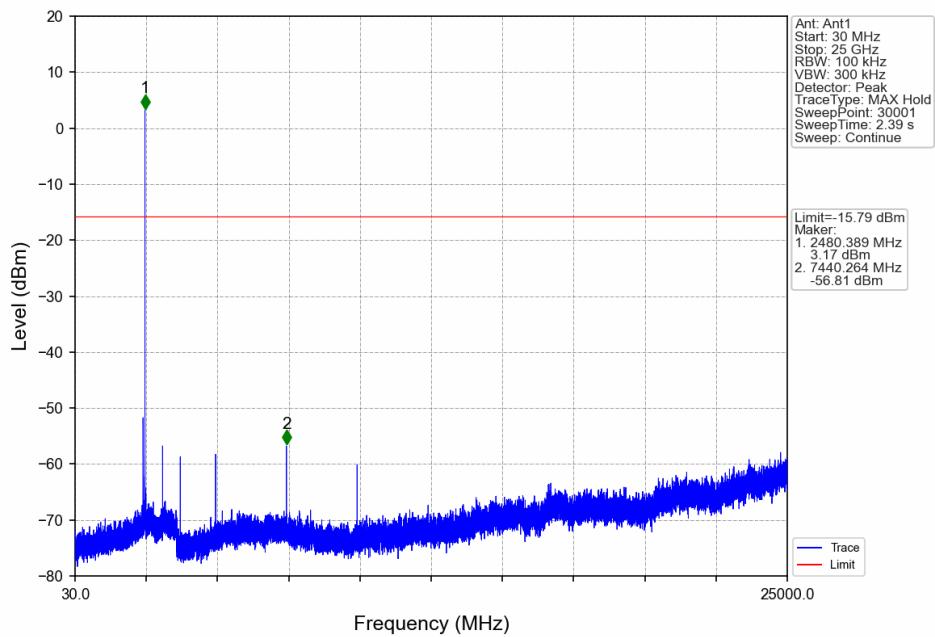
8-DPSK 3DH5 MCH 2441MHz Ant1 NTN



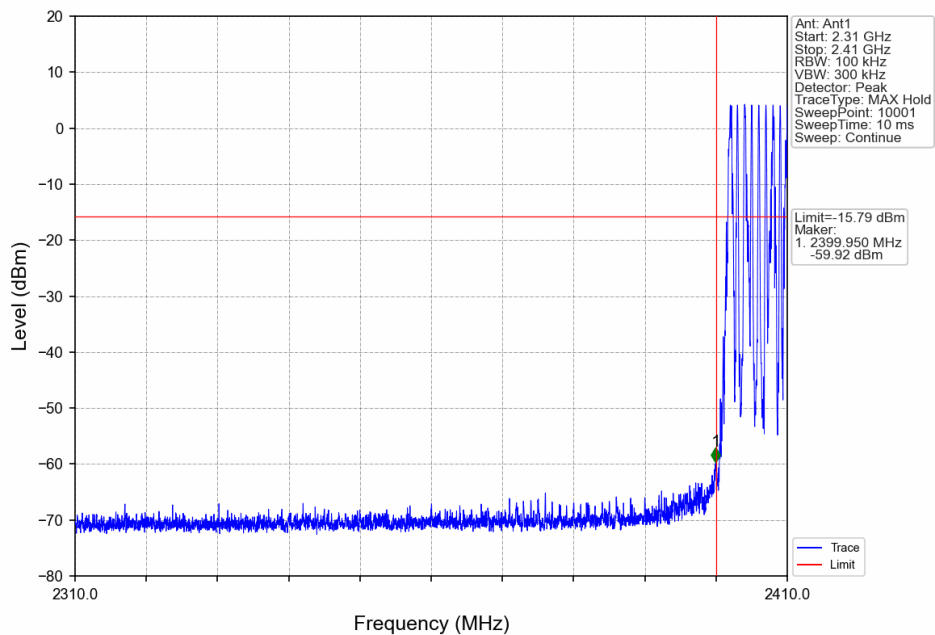
8-DPSK 3DH5 HCH 2480MHz Ant1 NTN

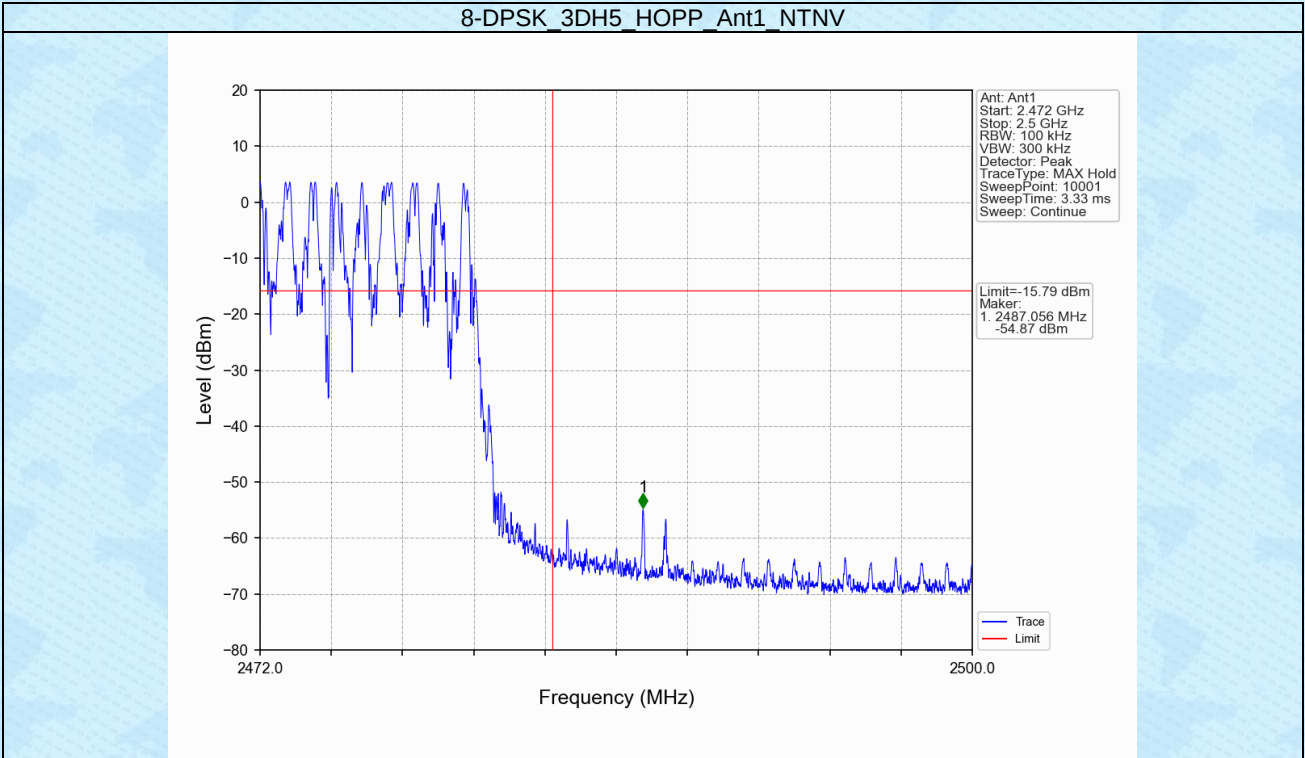


8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV





-----End-----