

1. Bandwidth

1.1 Test Result

1.1.1 OBW

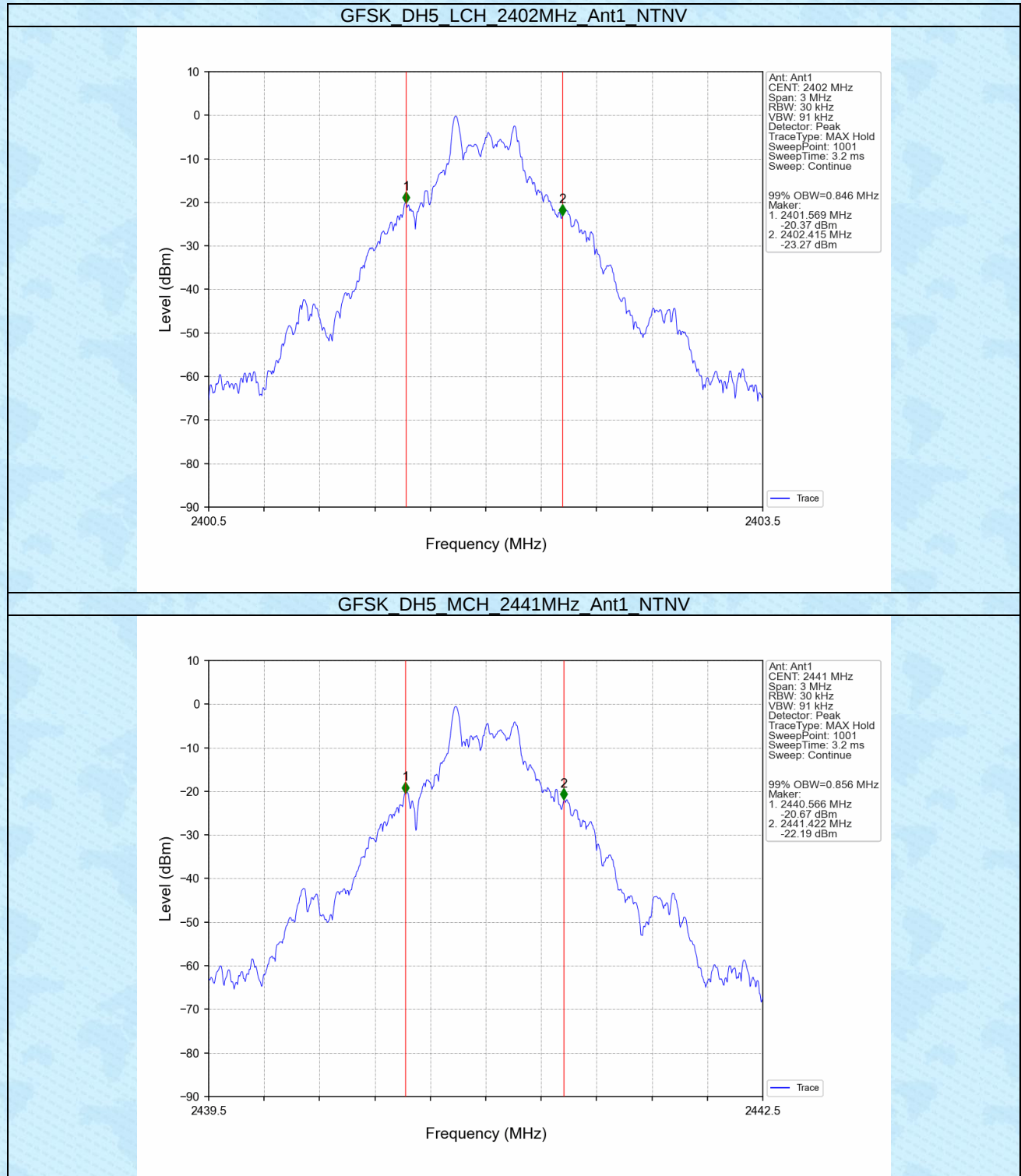
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.846	/	Pass
		2441	DH5	1	0.856	/	Pass
		2480	DH5	1	0.849	/	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.079	/	Pass
		2441	2DH5	1	1.079	/	Pass
		2480	2DH5	1	1.084	/	Pass

1.1.2 20dB BW

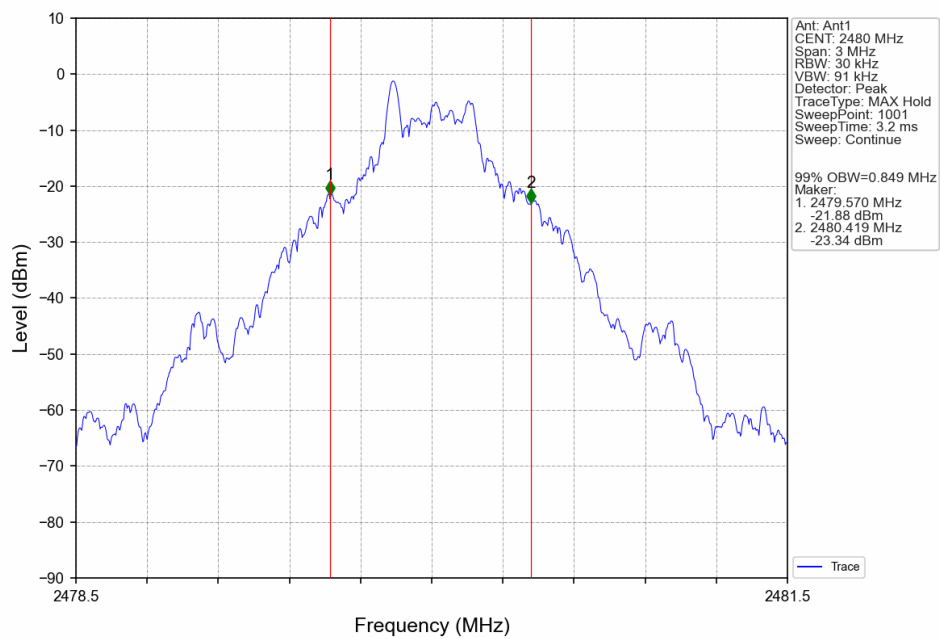
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.830	/	Pass
		2441	DH5	1	0.828	/	Pass
		2480	DH5	1	0.829	/	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.156	/	Pass
		2441	2DH5	1	1.140	/	Pass
		2480	2DH5	1	1.168	/	Pass

1.2 Test Graph

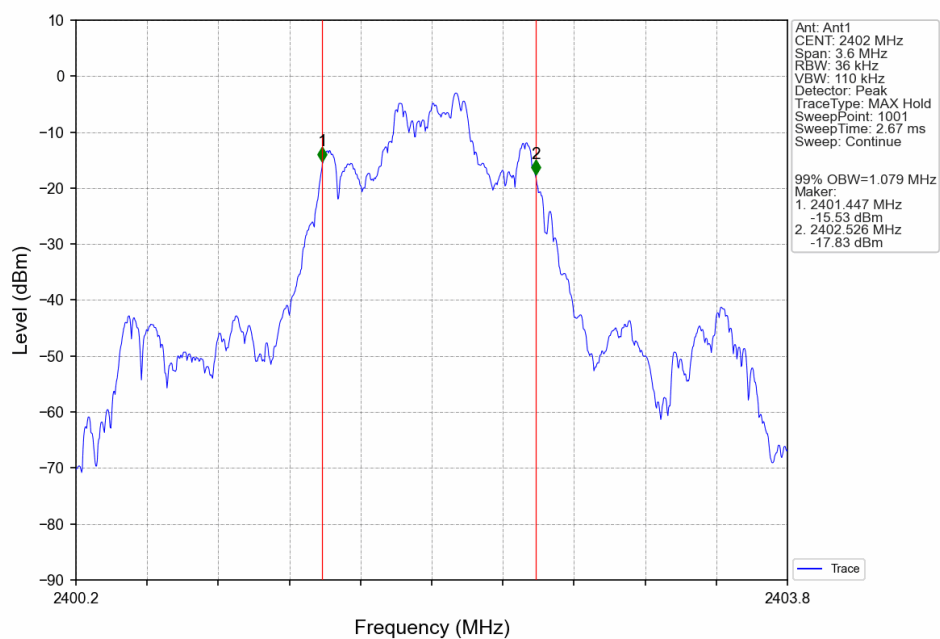
1.2.1 OBW



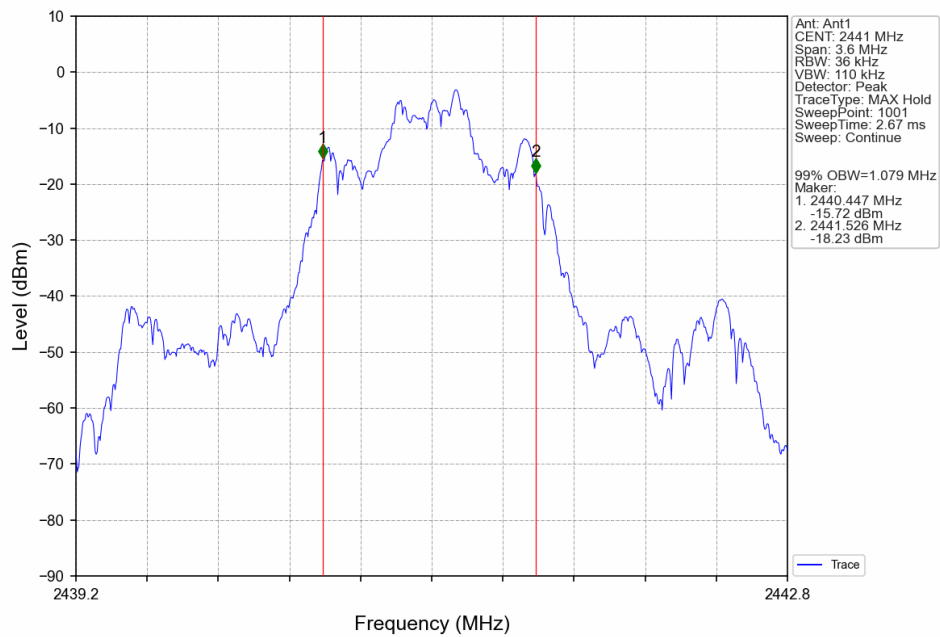
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



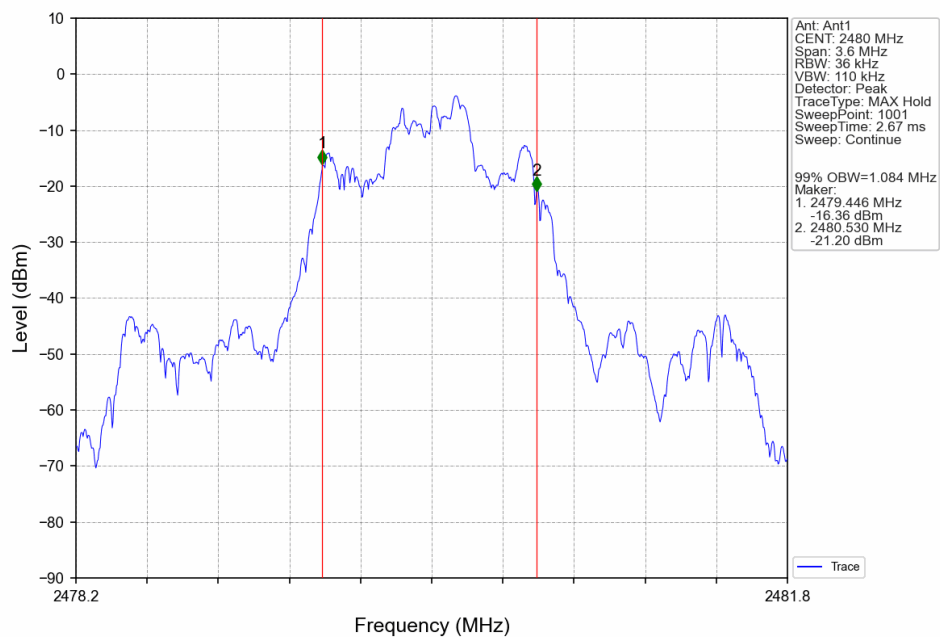
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



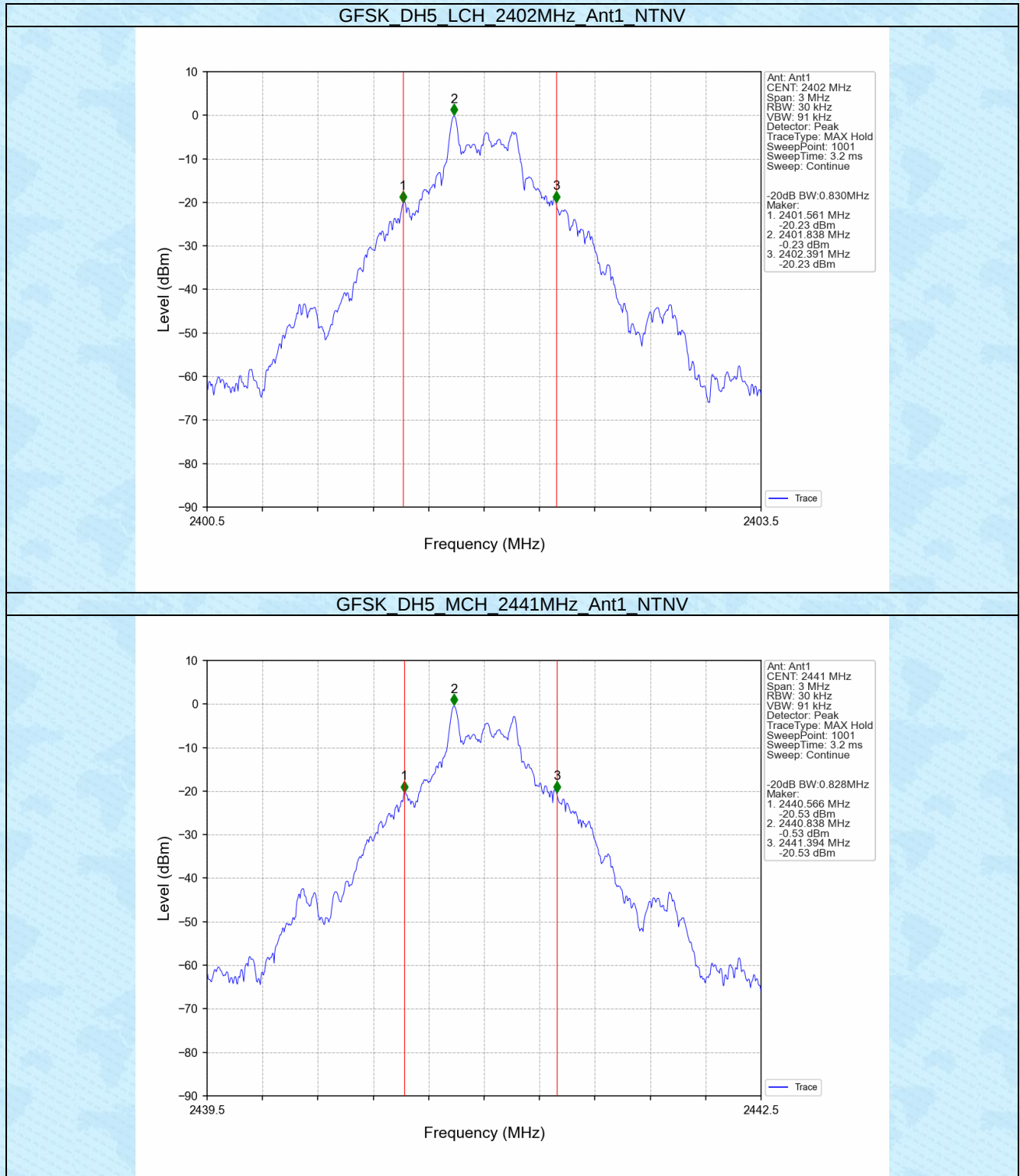
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



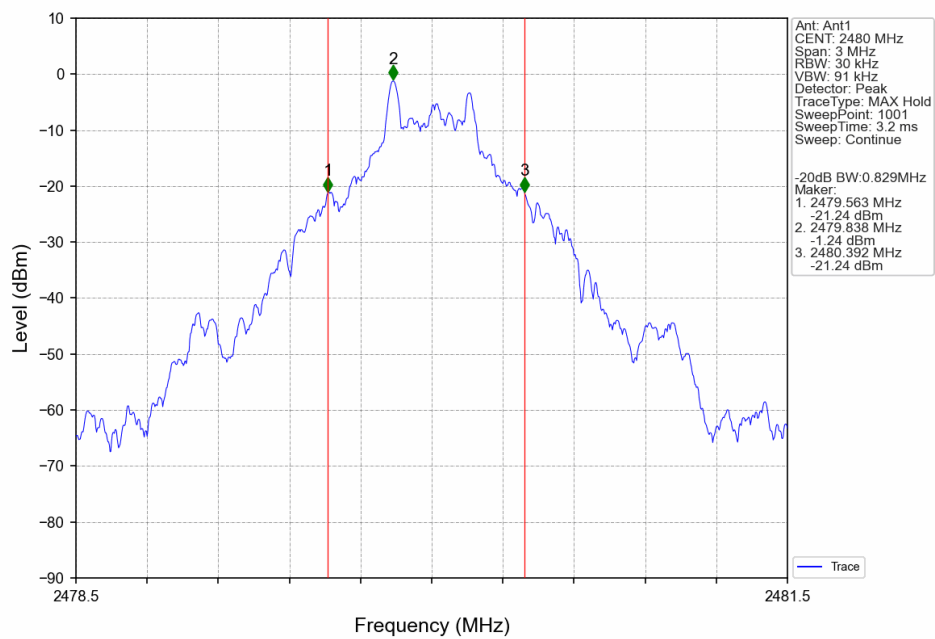
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



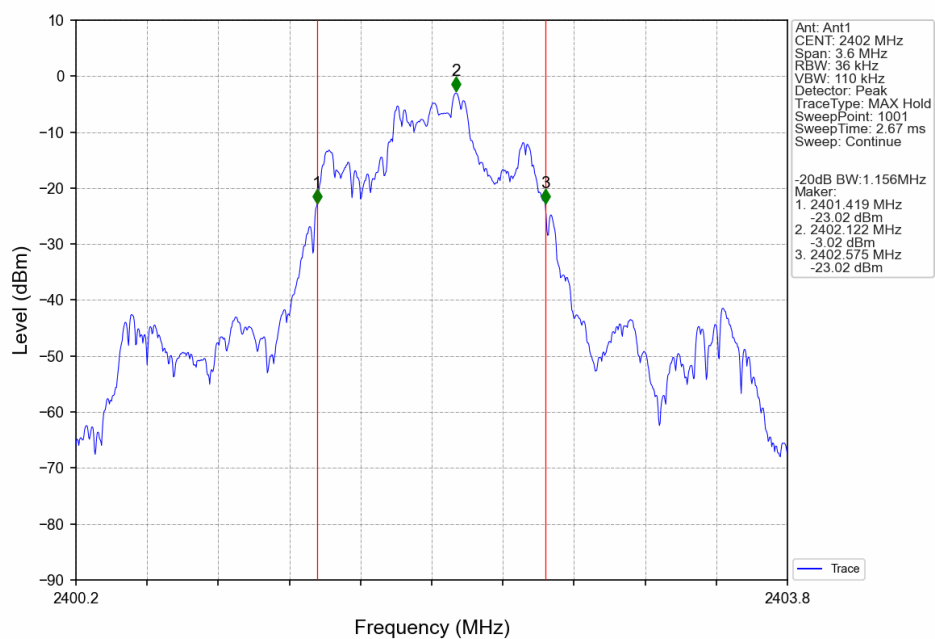
1.2.2 20dB BW



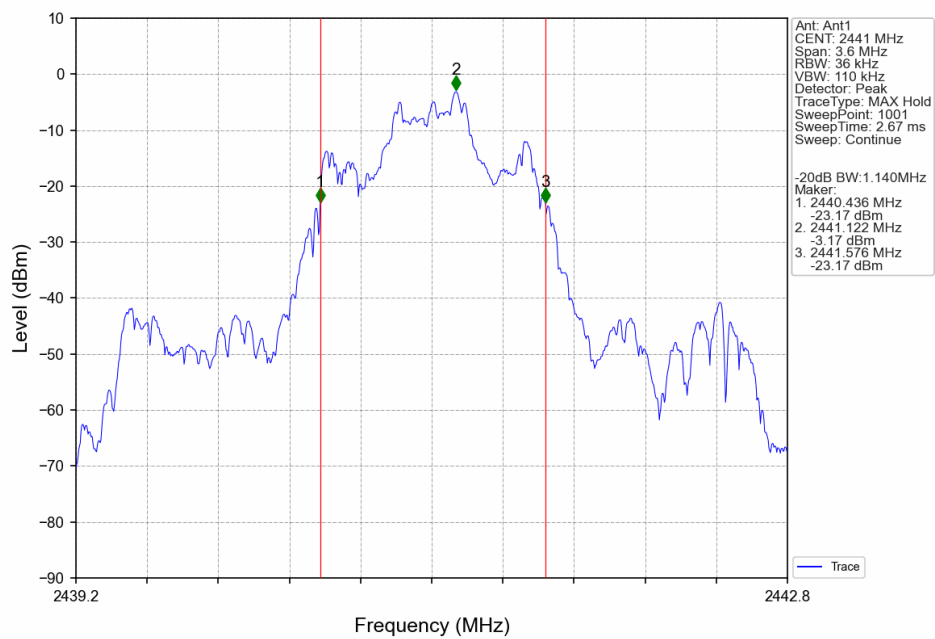
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



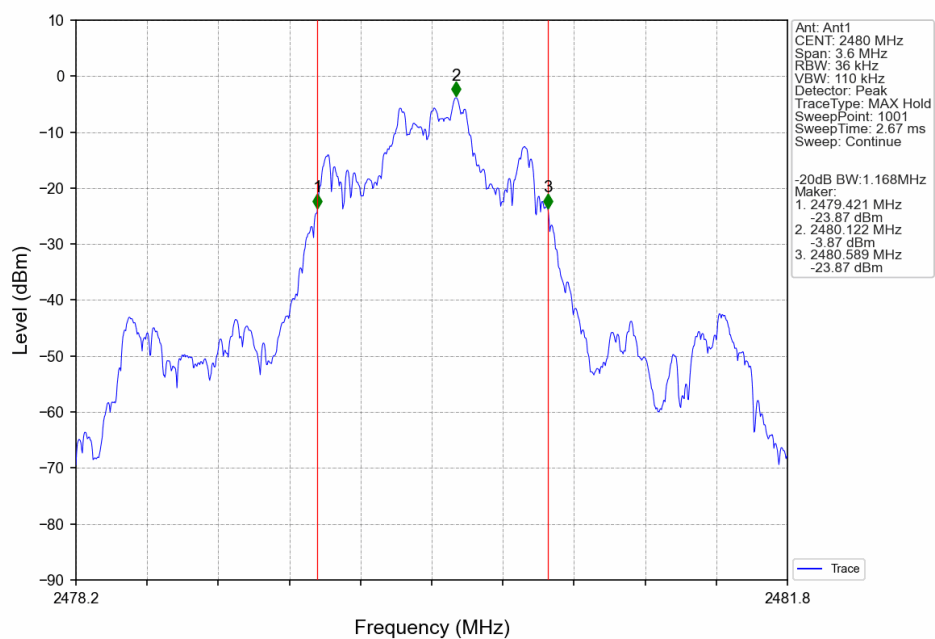
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

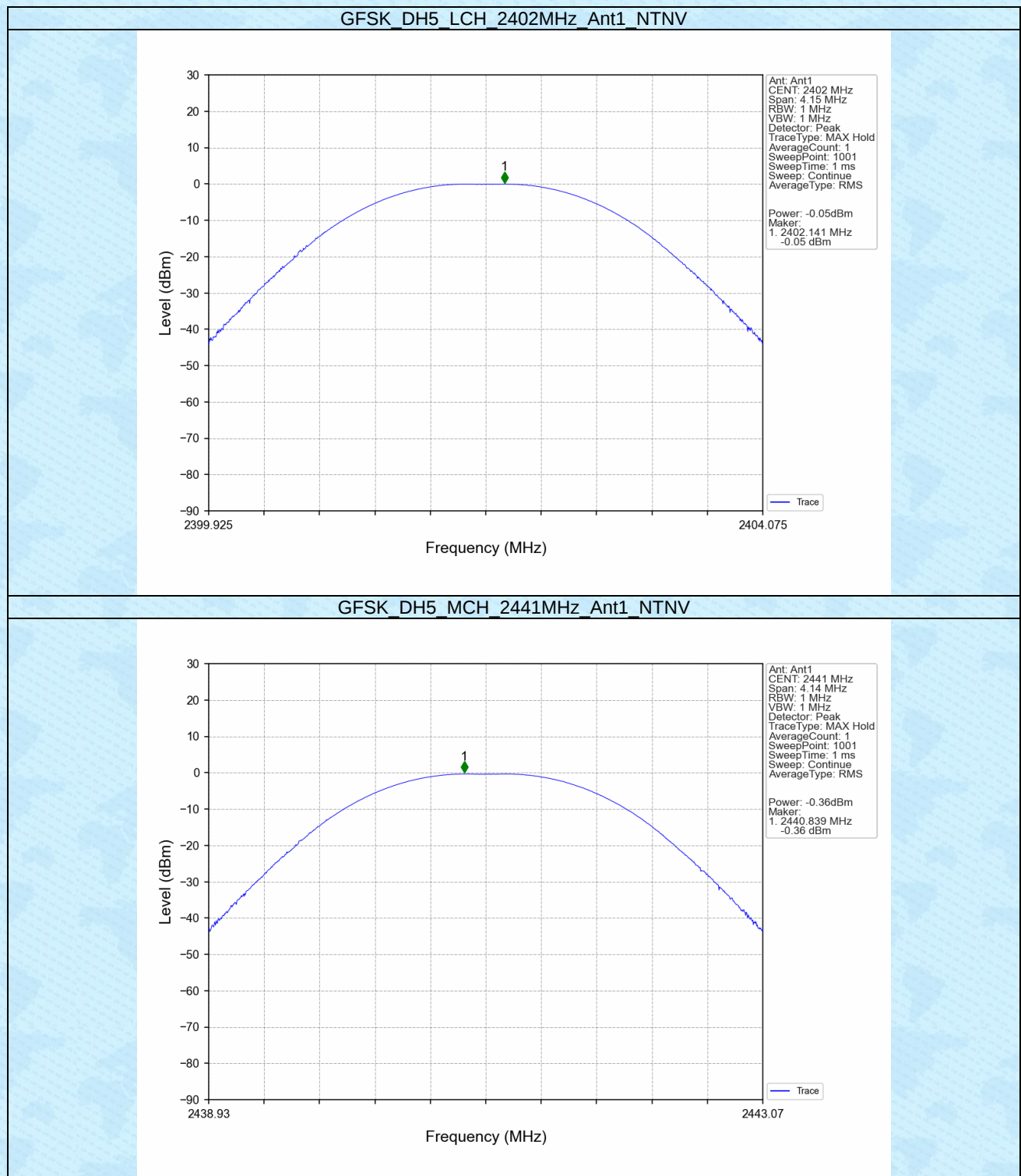


2. Maximum Conducted Output Power

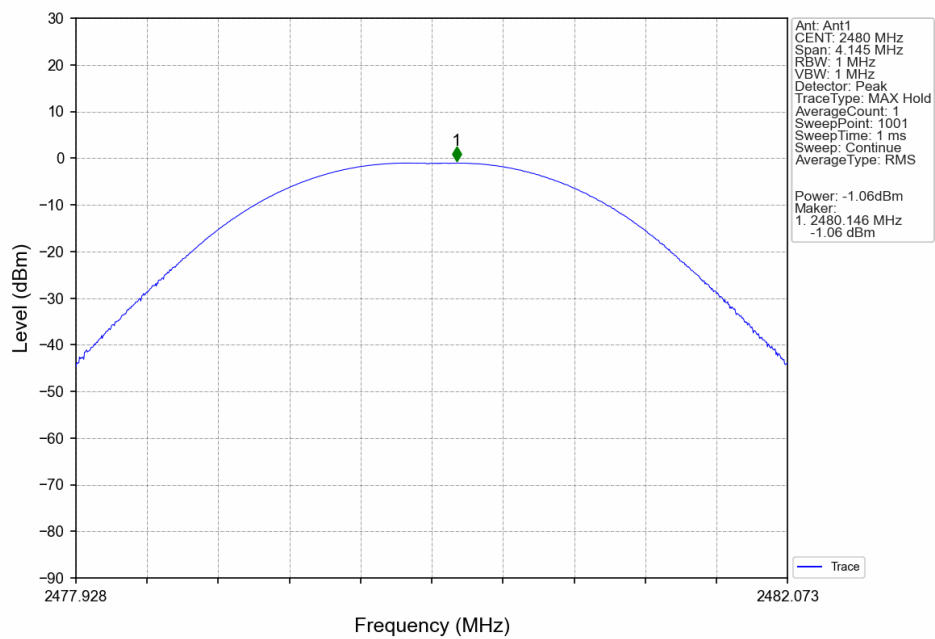
2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-0.05	<=30	Pass
		2441	DH5	-0.36	<=30	Pass
		2480	DH5	-1.06	<=30	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	-1.40	<=20.97	Pass
		2441	2DH5	-1.67	<=20.97	Pass
		2480	2DH5	-2.35	<=20.97	Pass

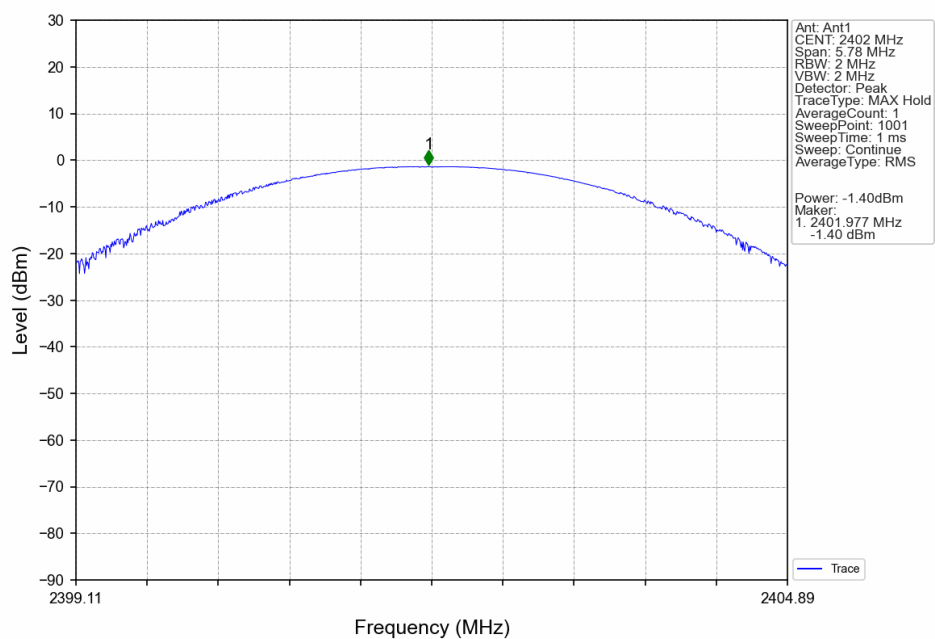
2.2 Test Graph



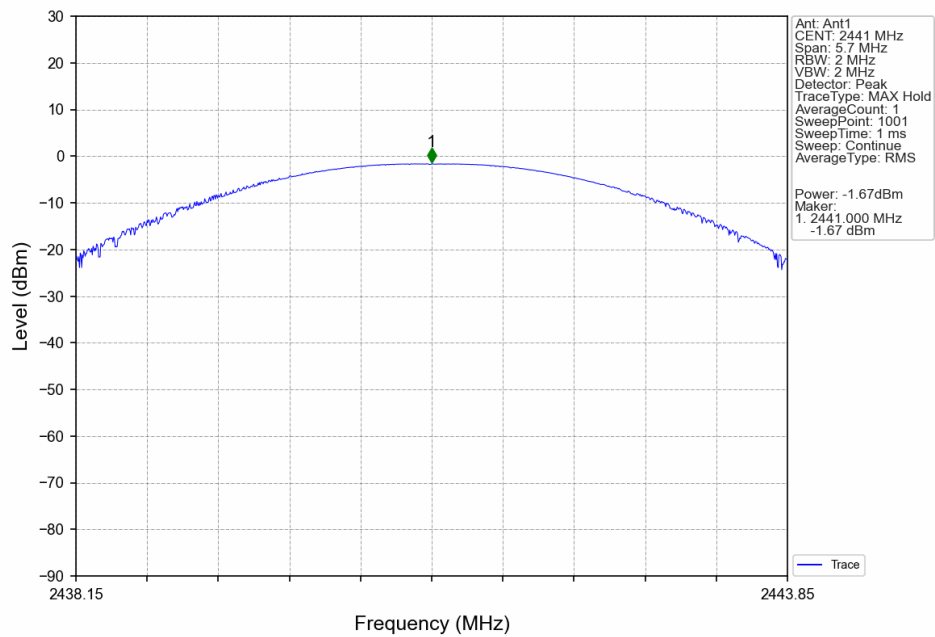
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



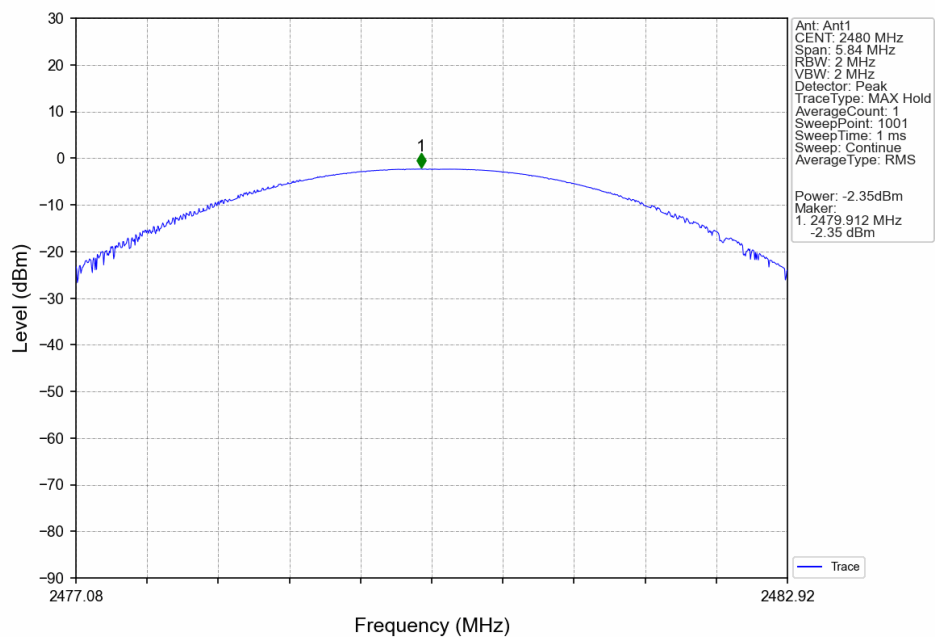
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

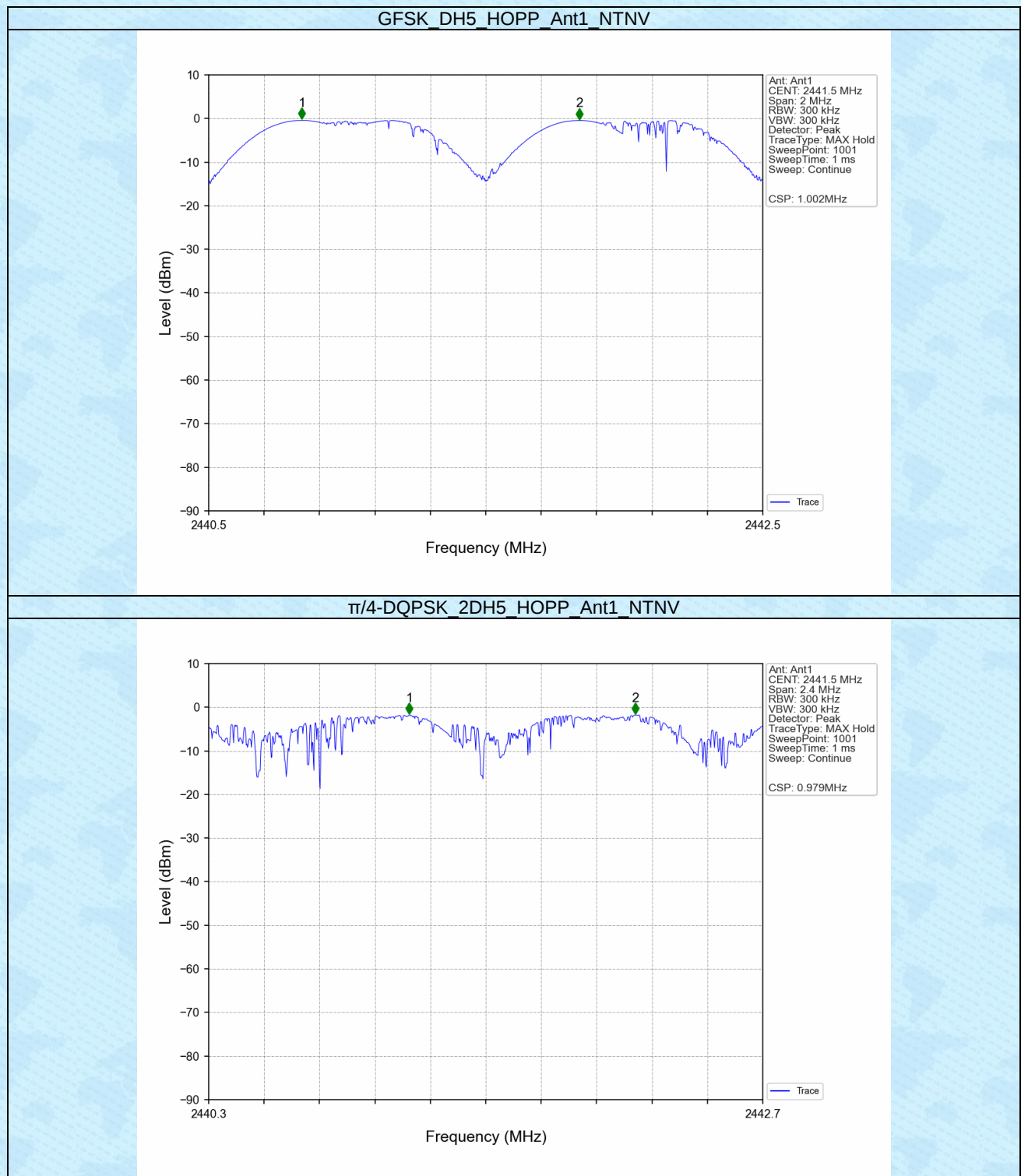


3. Carrier Frequency Separation

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	1.002	0.830	≥ 0.83	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	0.979	1.168	≥ 0.779	Pass

3.2 Test Graph

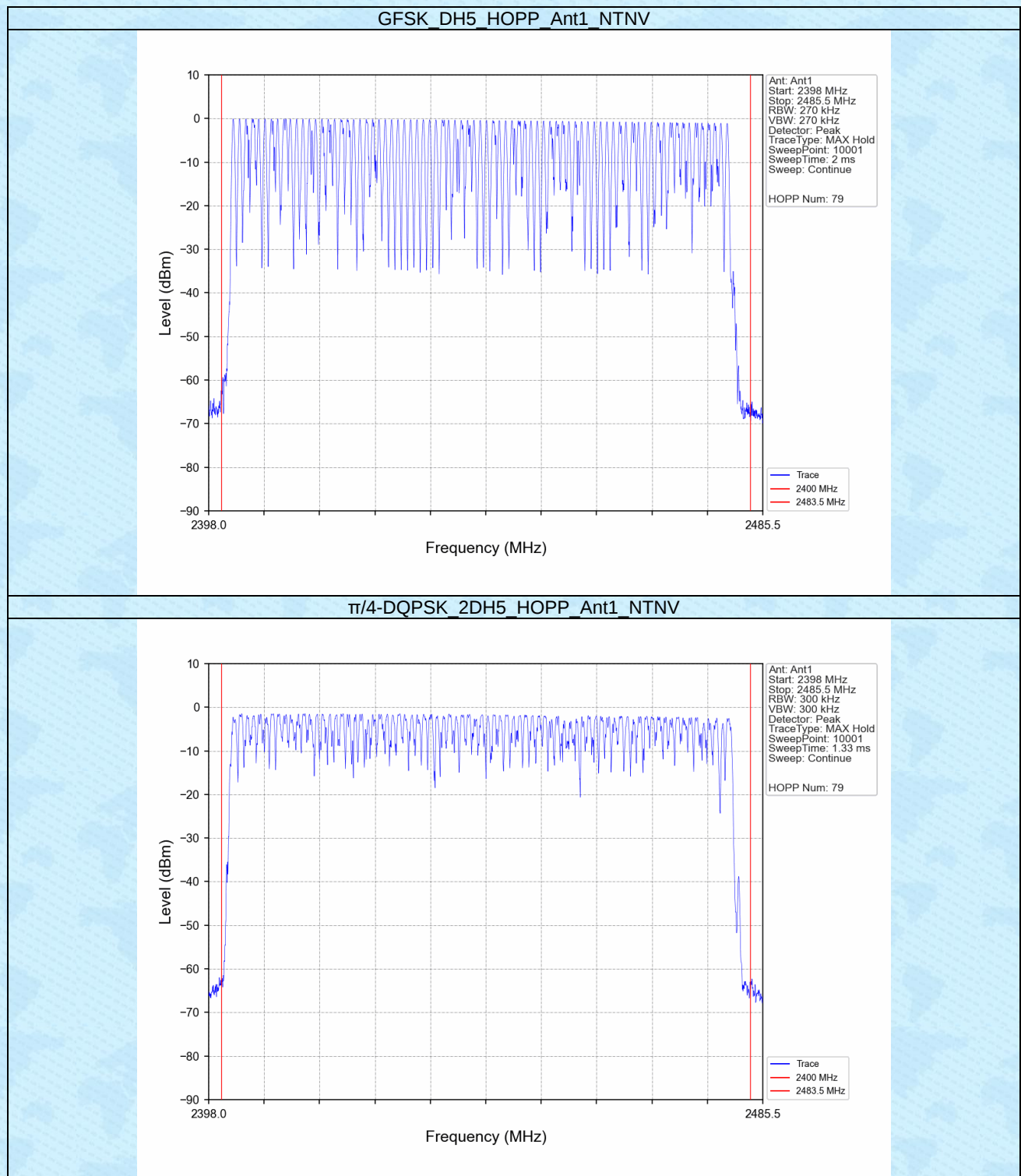


4. Number of Hopping Frequencies

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

4.2 Test Graph

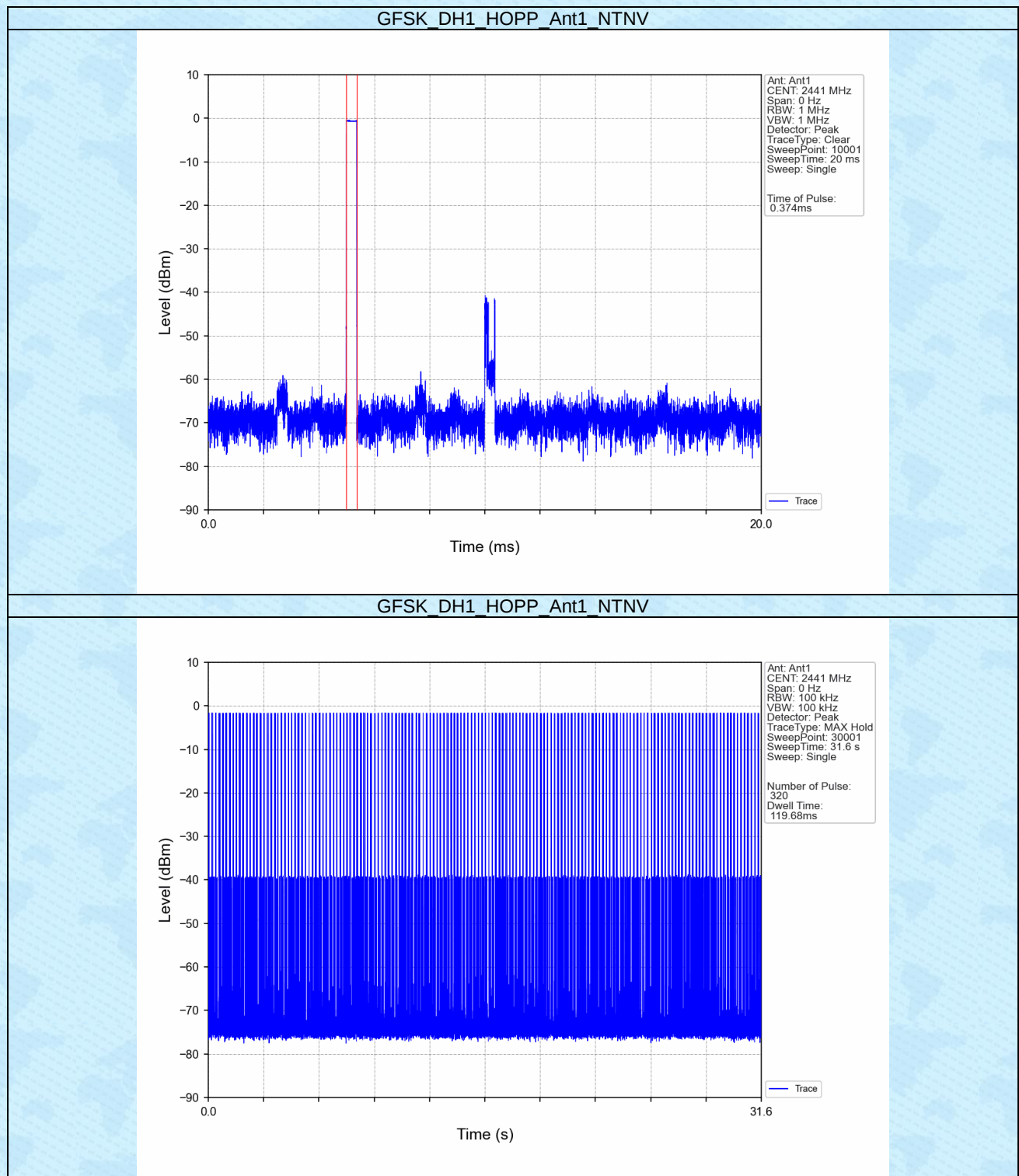


5. Time of Occupancy (Dwell Time)

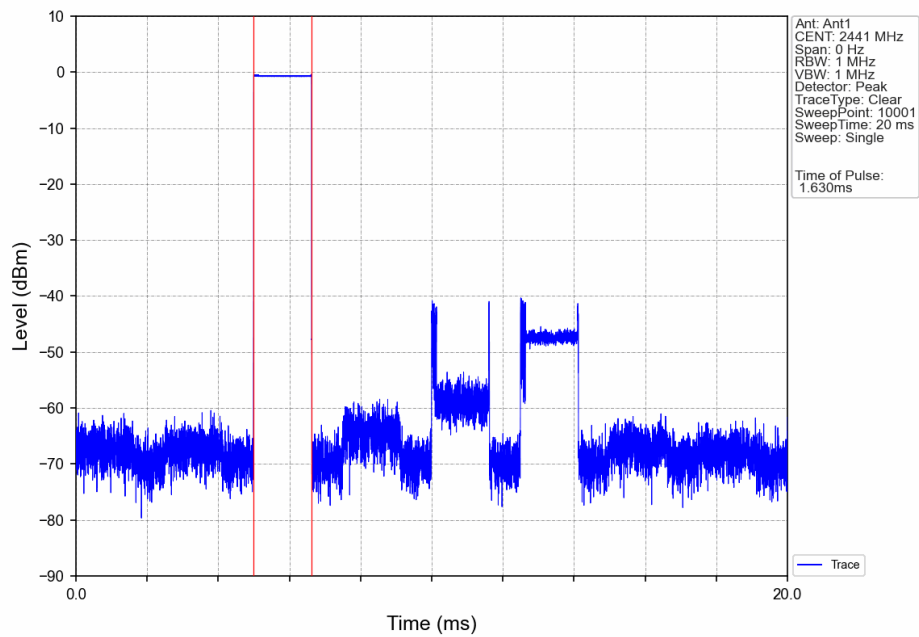
5.1 Test Result

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	0.374	31.600	320	119.680	<=400	Pass
			DH3	1.630	31.600	159	259.170	<=400	Pass
			DH5	2.890	31.600	106	306.340	<=400	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	0.382	31.600	160	61.120	<=400	Pass
			2DH5	2.882	31.600	115	331.430	<=400	Pass

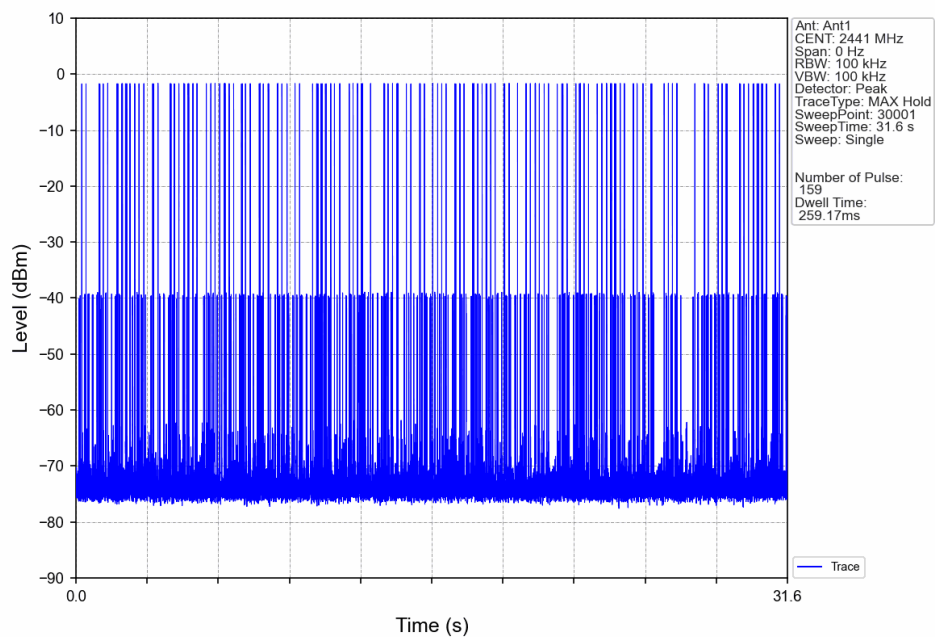
5.2 Test Graph



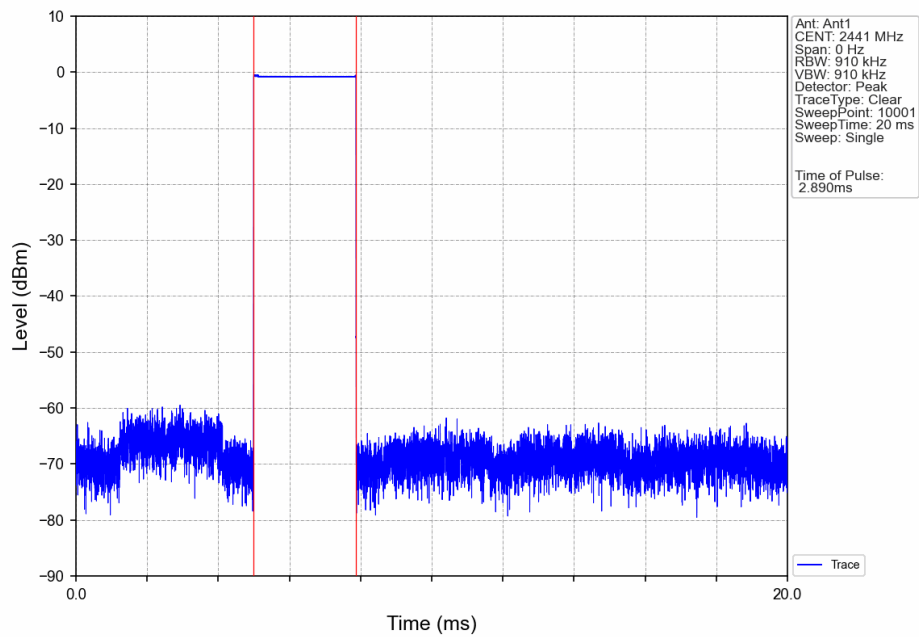
GFSK DH3 HOPP Ant1 NTN



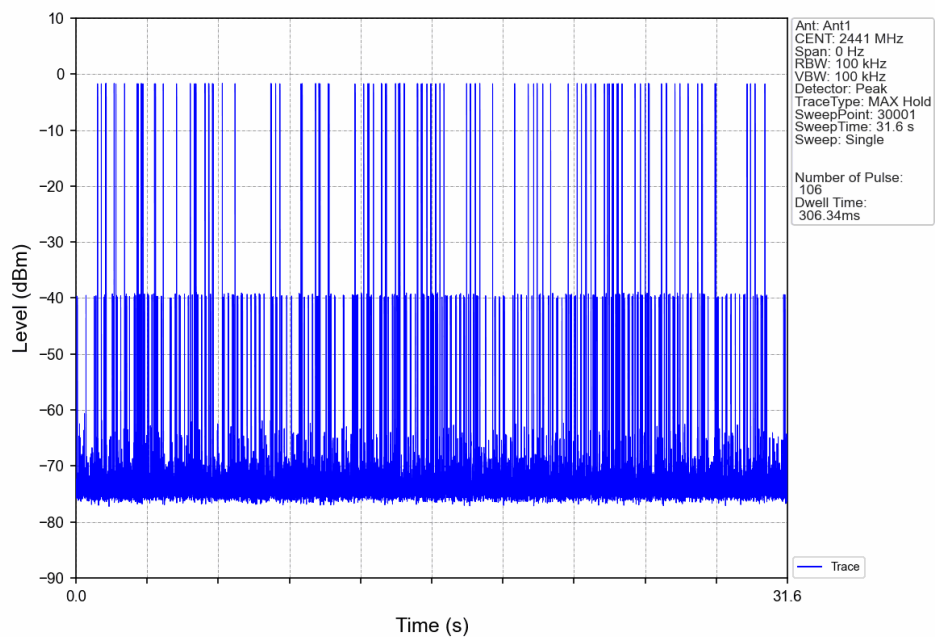
GFSK DH3 HOPP Ant1 NTN



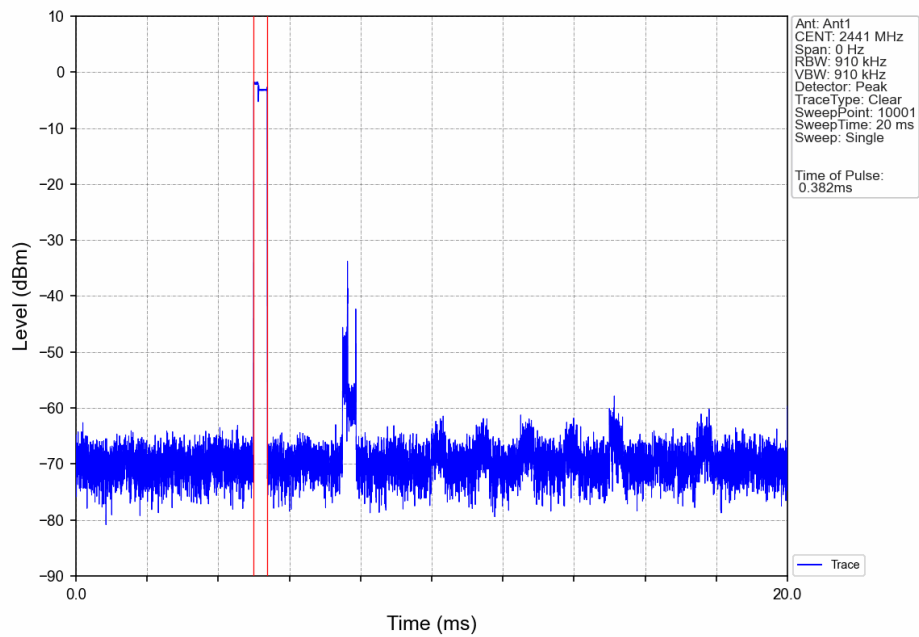
GFSK DH5 HOPP Ant1 NTN



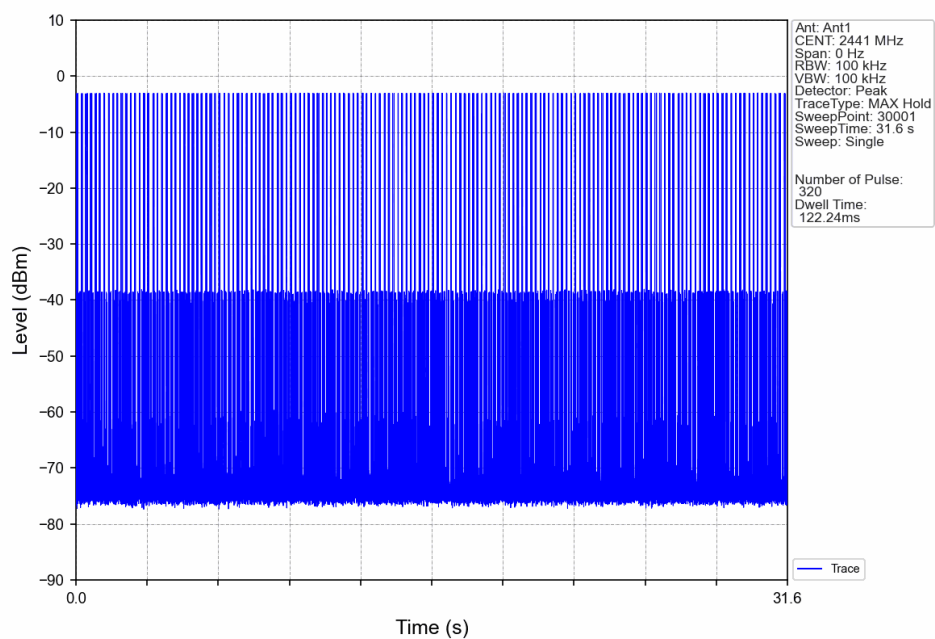
GFSK DH5 HOPP Ant1 NTN

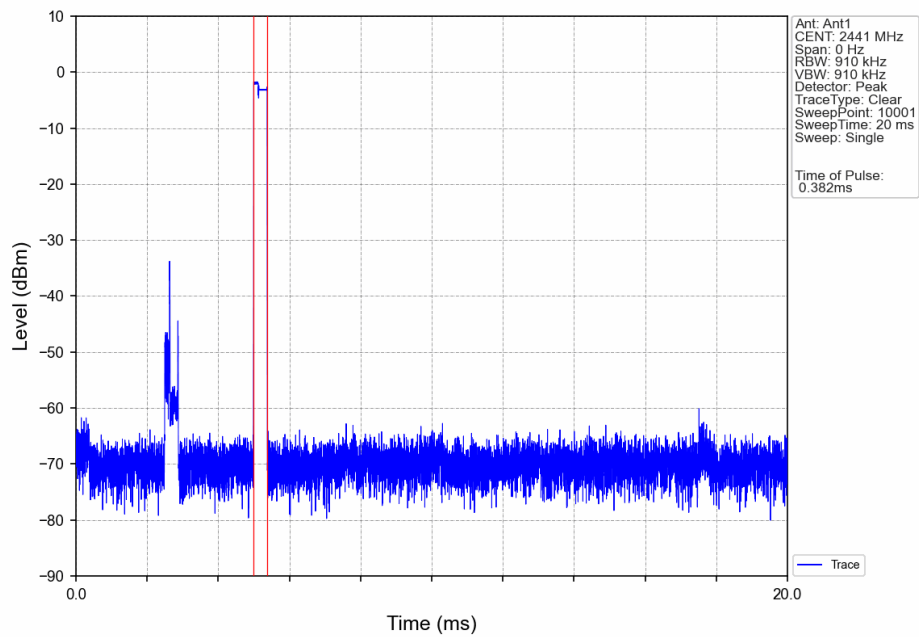
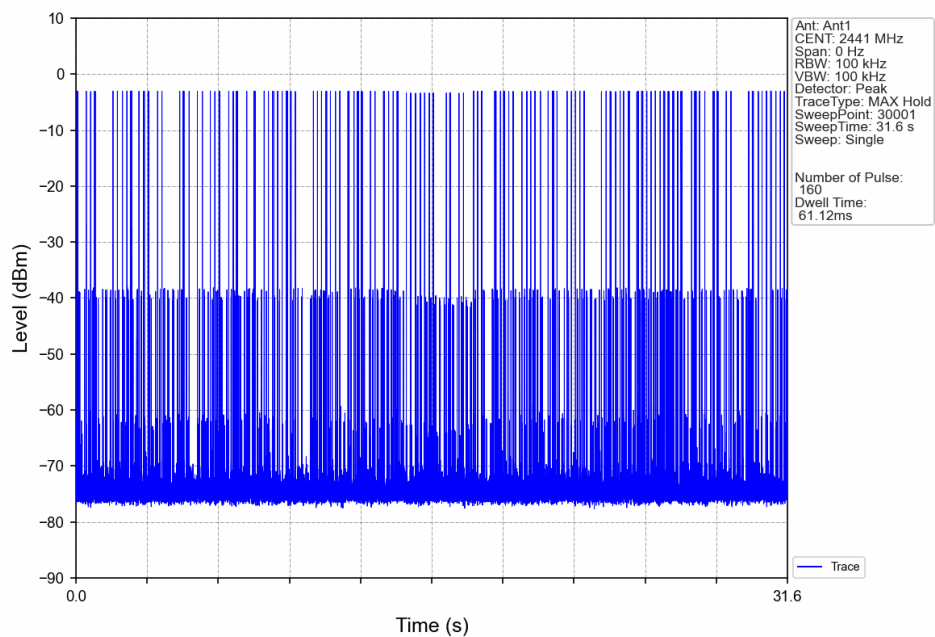


$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV

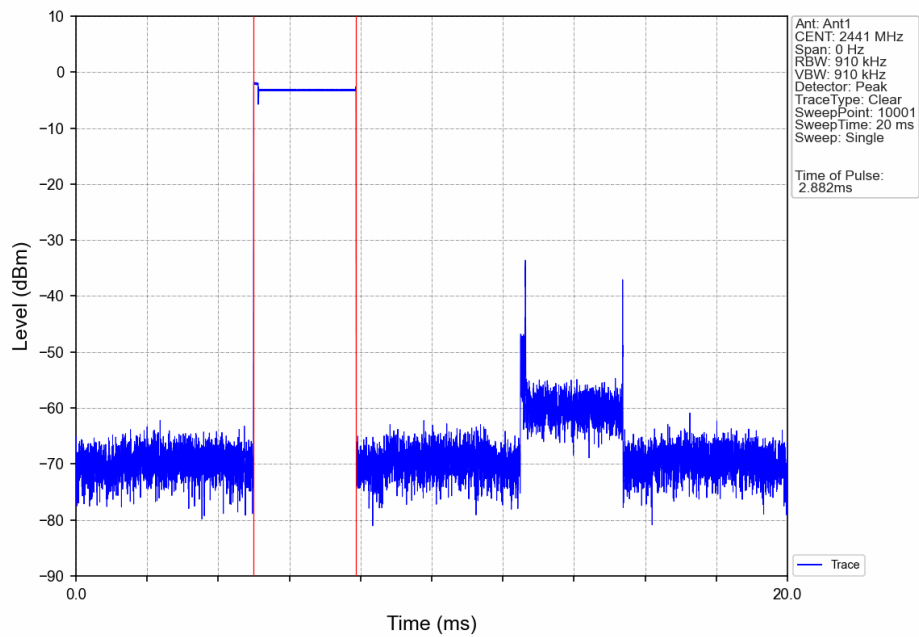


$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV

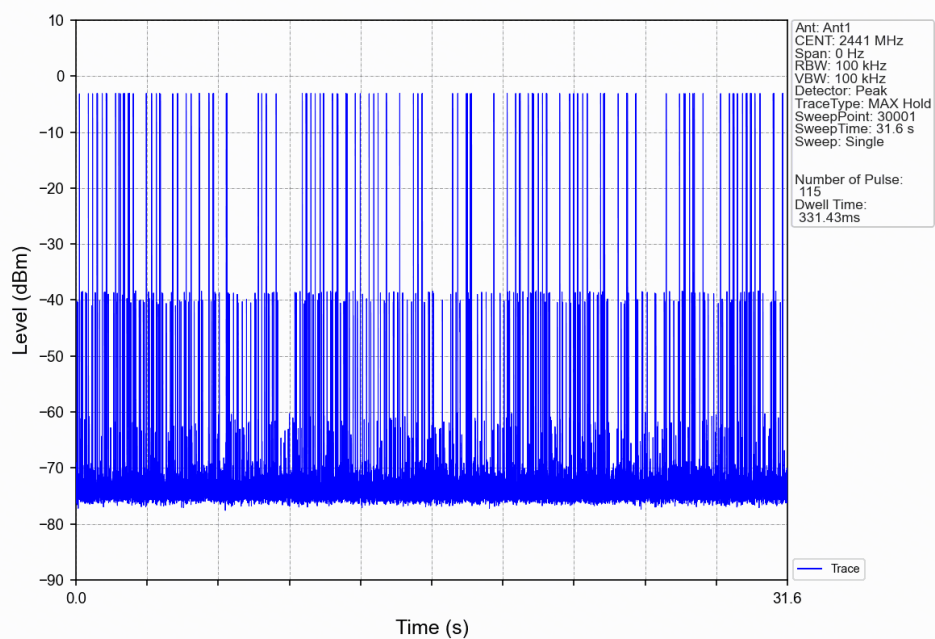


$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV $\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV

$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-0.23
		2441	DH5	1	-0.53
		2480	DH5	1	-1.22
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	-1.85
		2441	2DH5	1	-1.98
		2480	2DH5	1	-2.84

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.

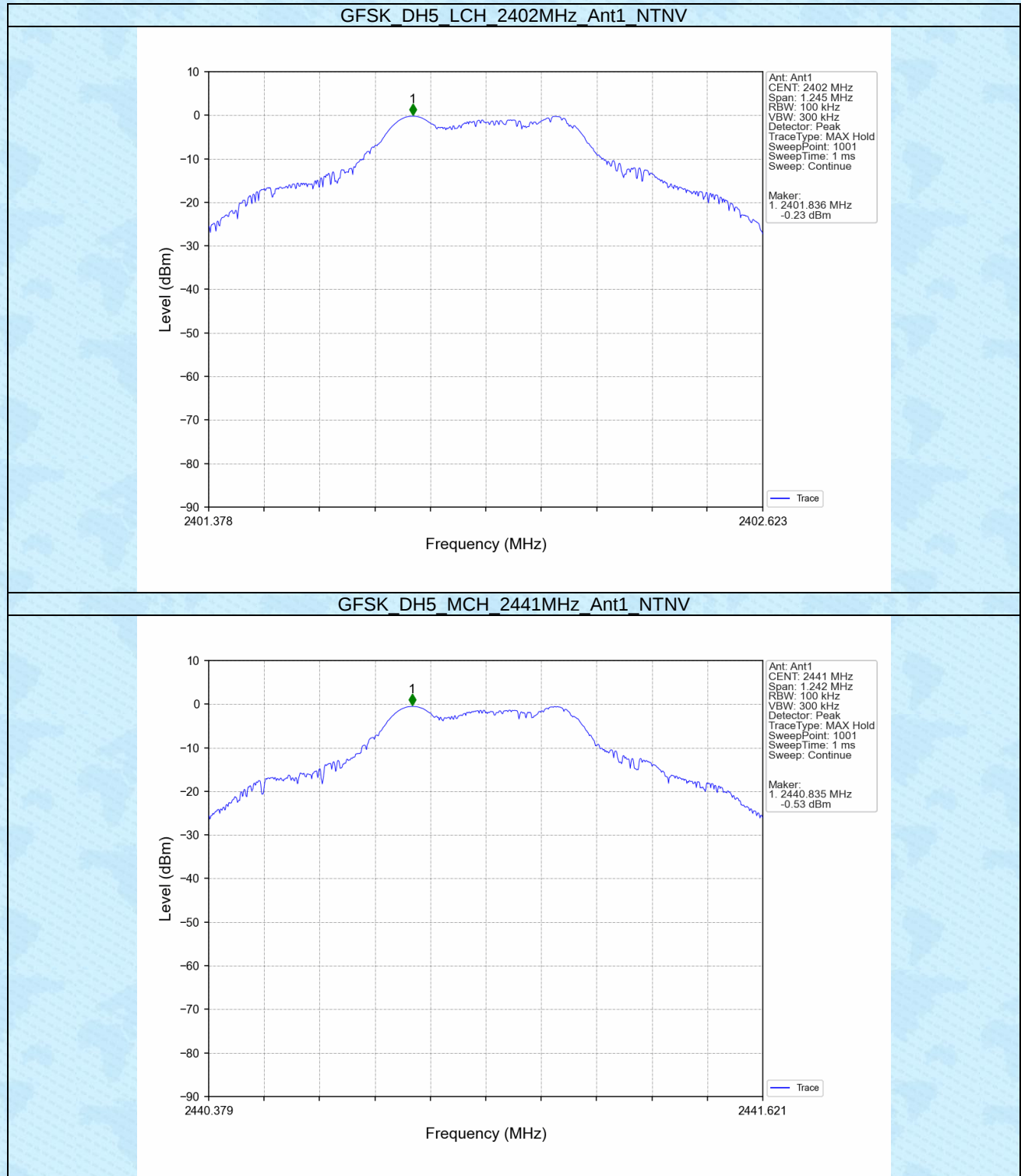
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.23	-20.23	Pass
		2441	DH5	1	-0.23	-20.23	Pass
		2480	DH5	1	-0.23	-20.23	Pass
		HOPP	DH5	1	-0.23	-20.23	Pass
					-0.23	-20.23	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	-1.85	-21.85	Pass
		2441	2DH5	1	-1.85	-21.85	Pass
		2480	2DH5	1	-1.85	-21.85	Pass
		HOPP	2DH5	1	-1.85	-21.85	Pass
					-1.85	-21.85	Pass

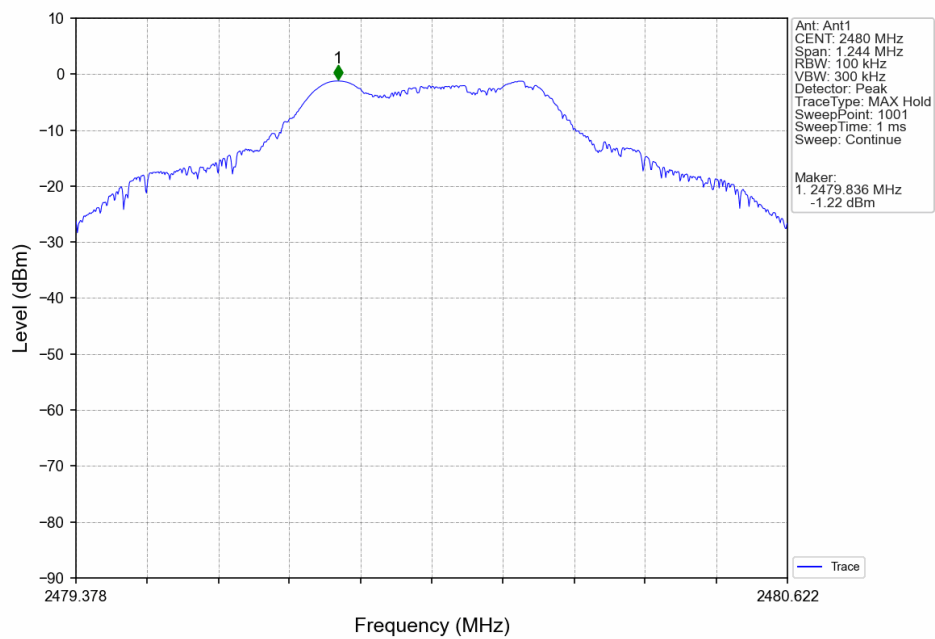
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

6.2 Test Graph

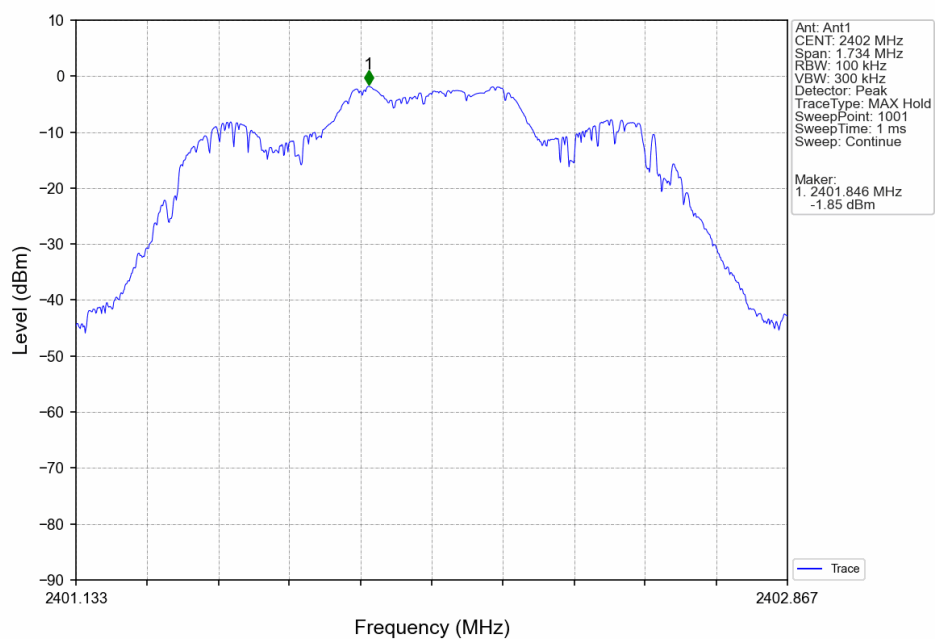
6.2.1 Ref



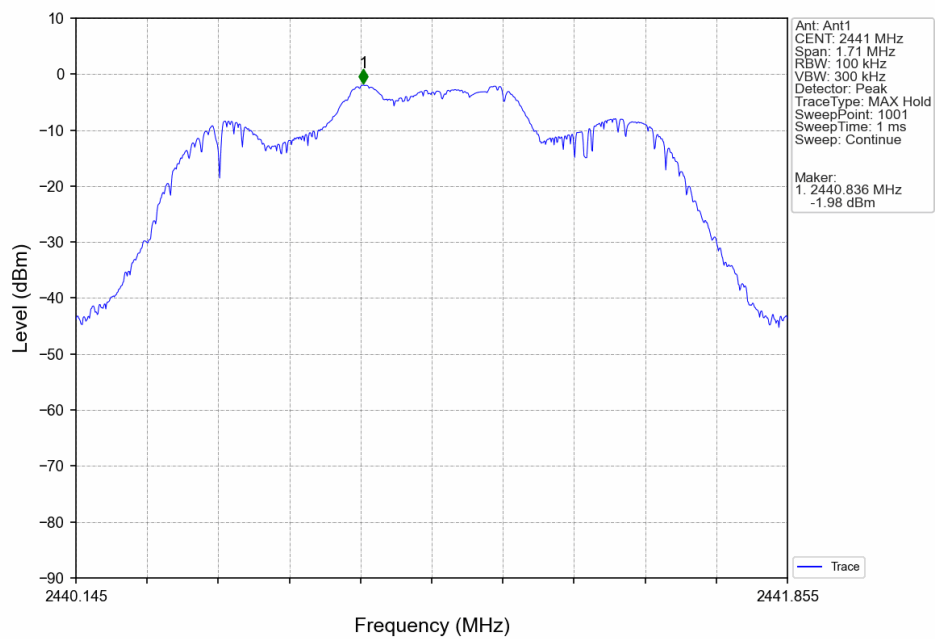
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



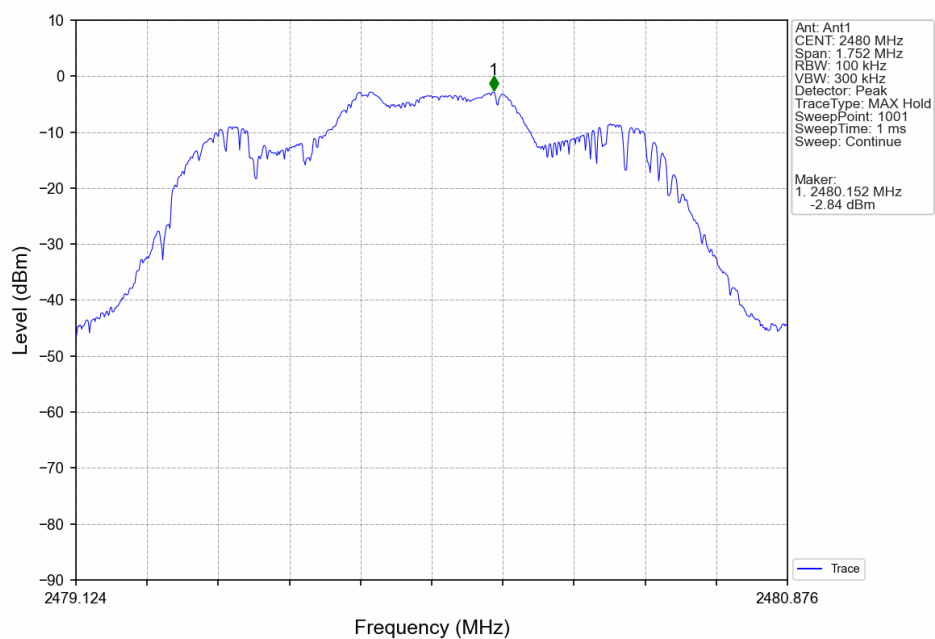
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



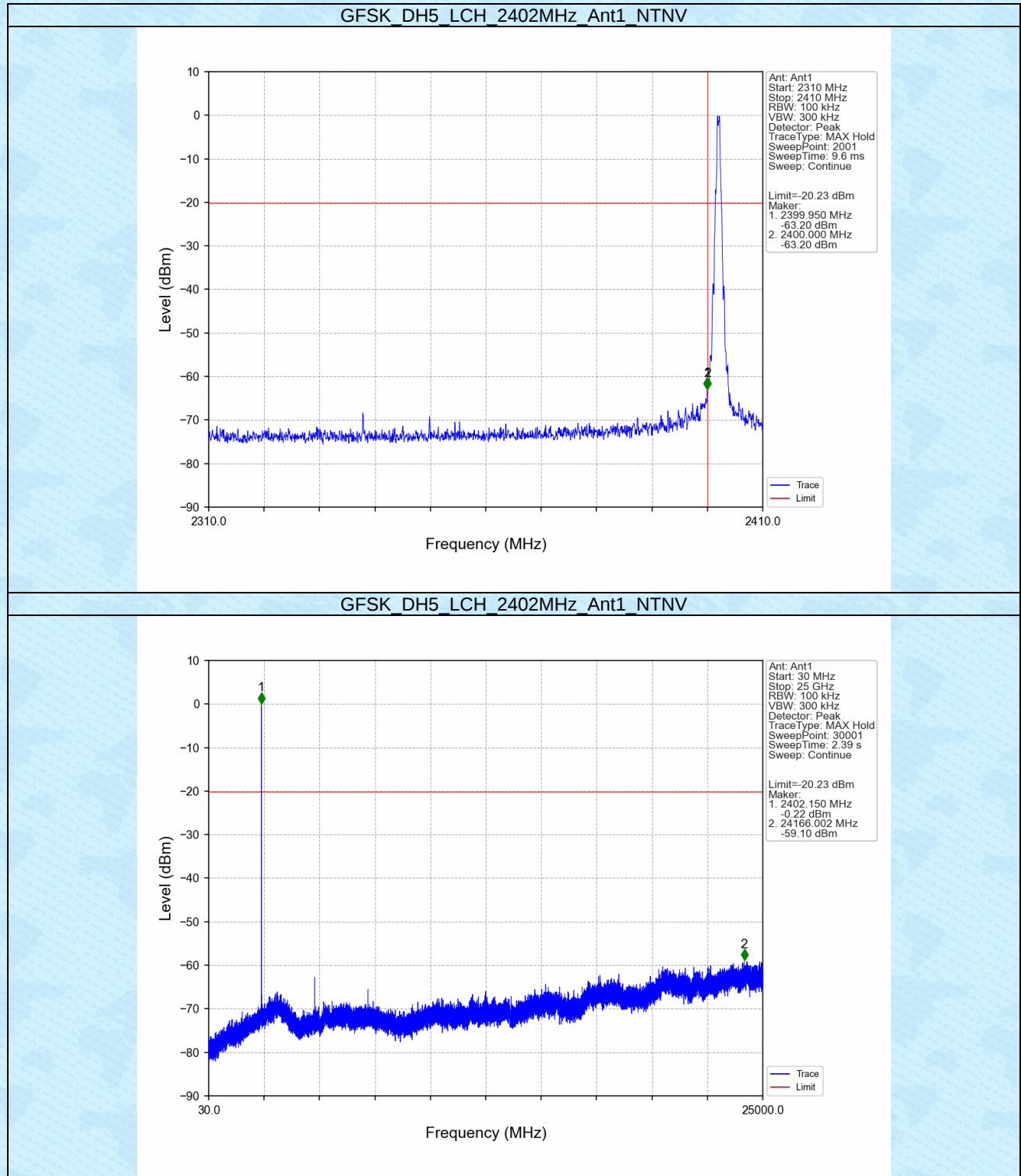
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



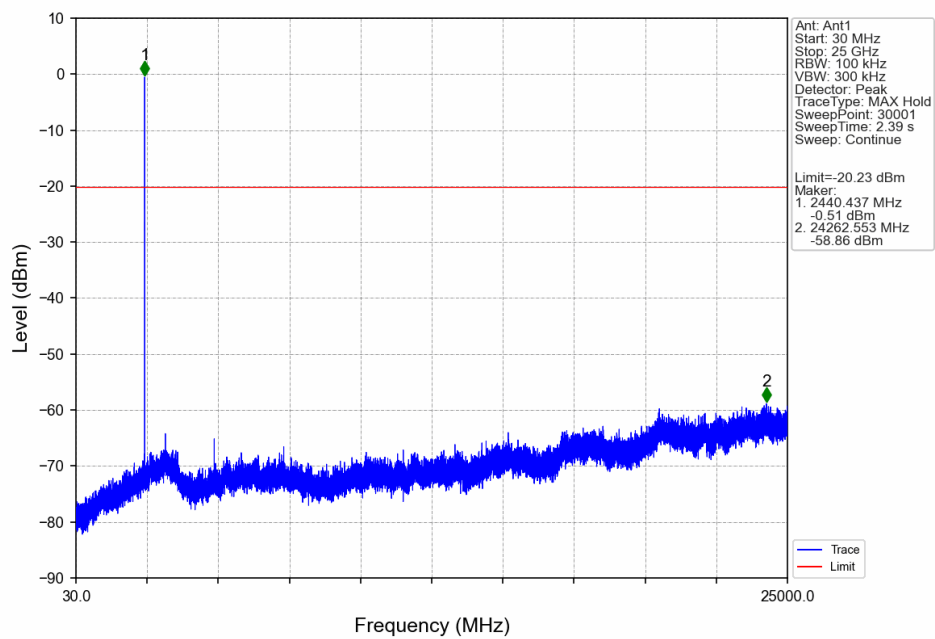
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



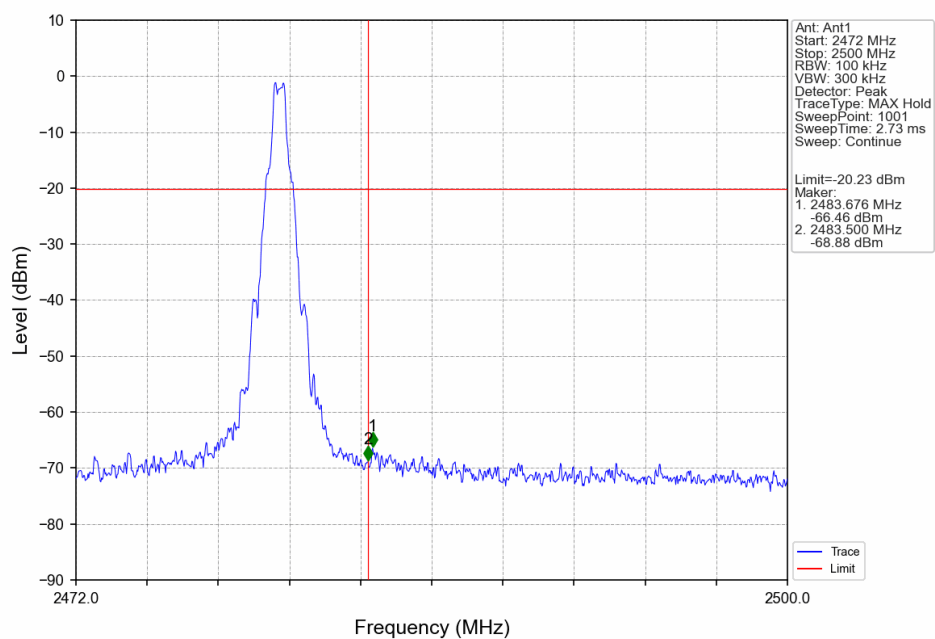
6.2.2 CSE



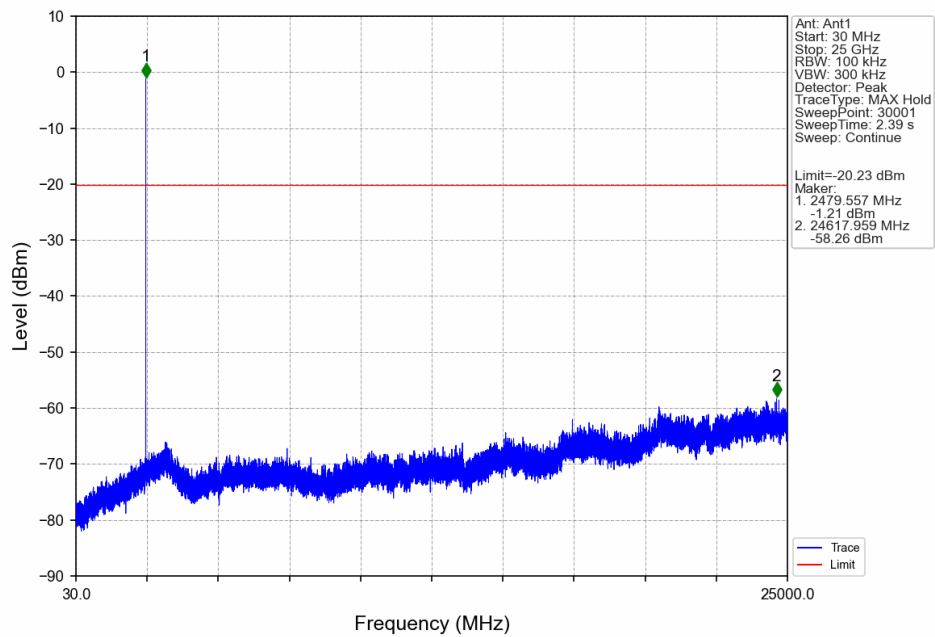
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



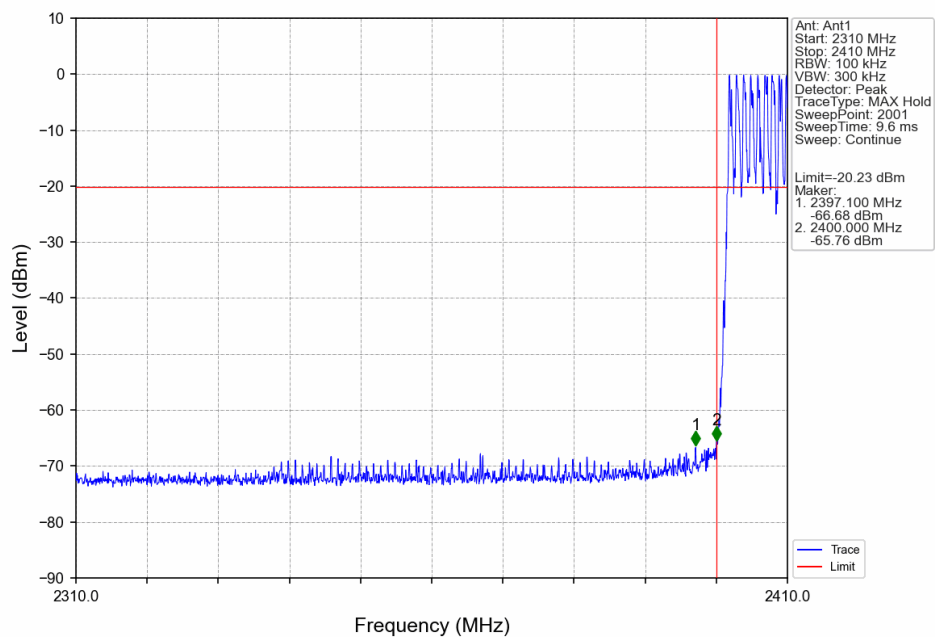
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



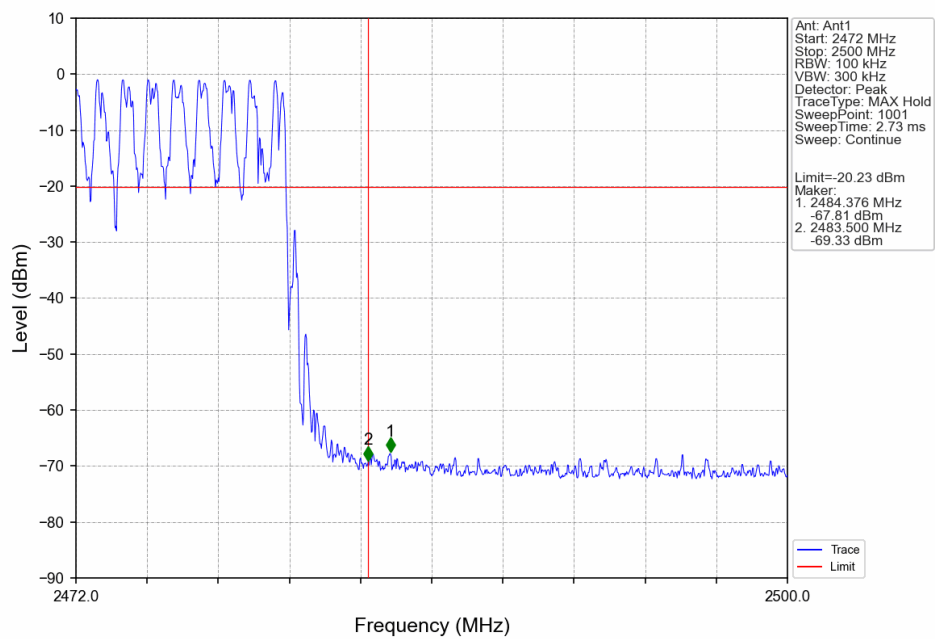
GFSK DH5 HCH 2480MHz Ant1 NTN



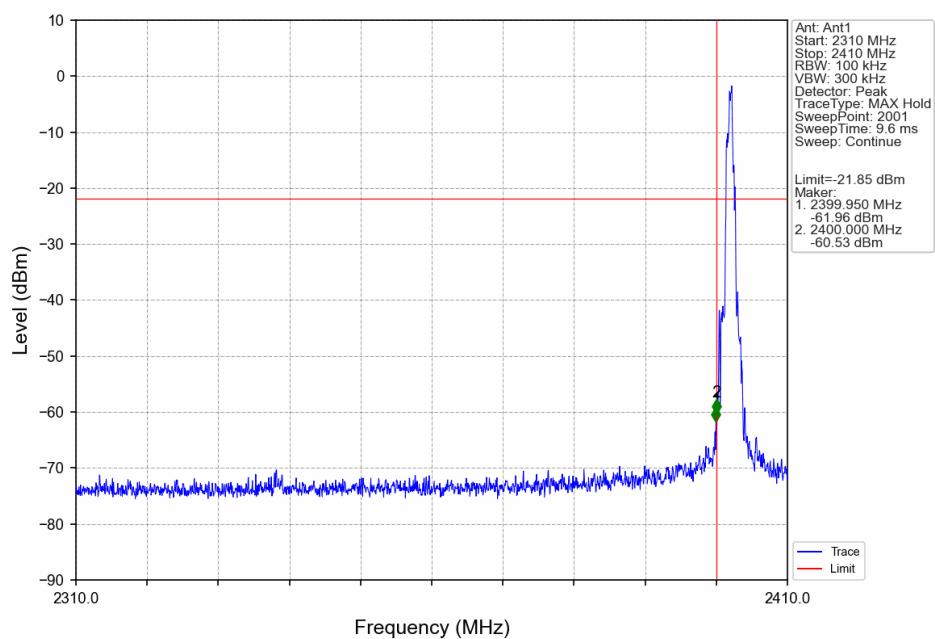
GFSK DH5 HOPP Ant1 NTN



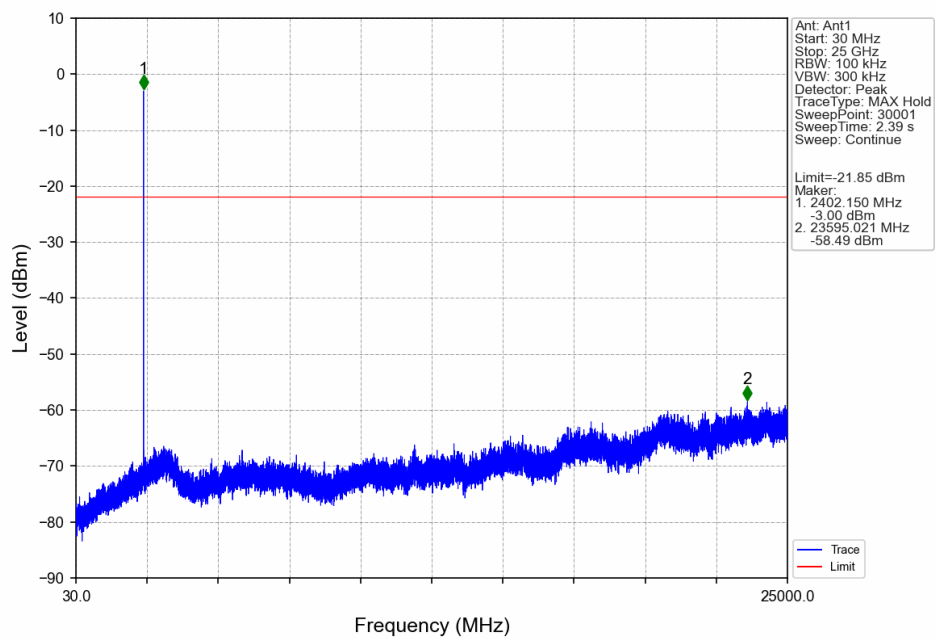
GFSK DH5_HOPP_Ant1_NTNV



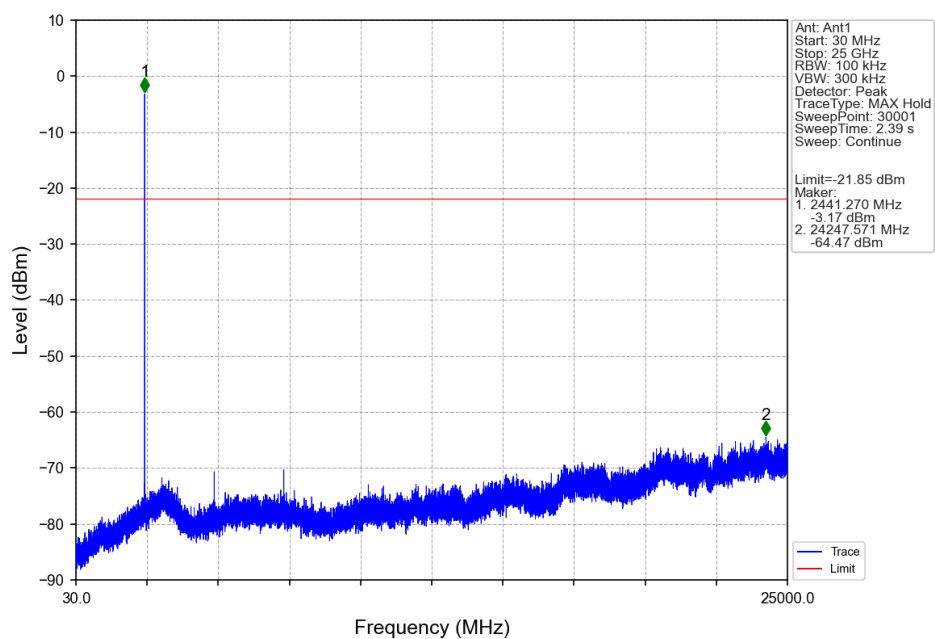
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



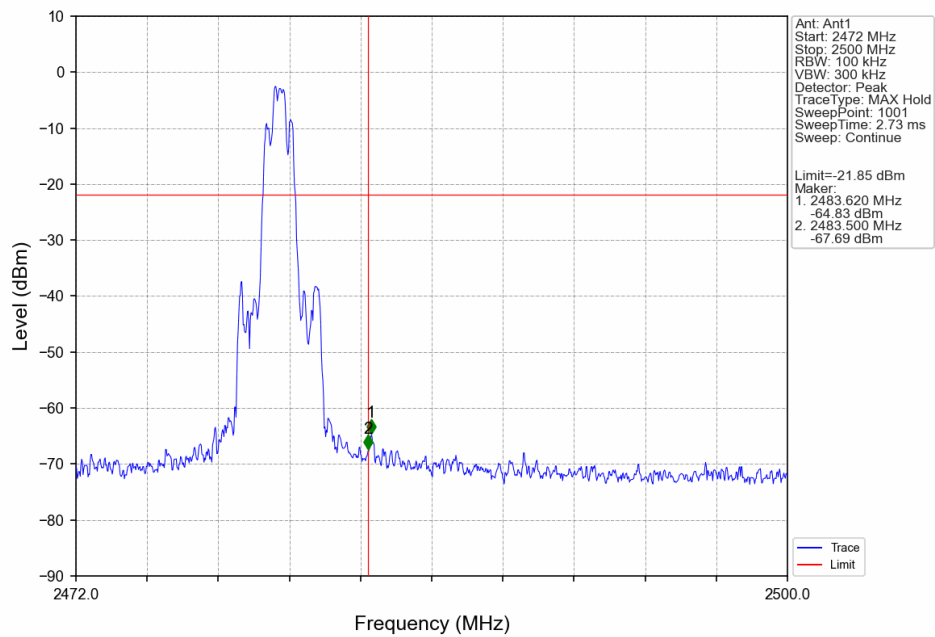
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



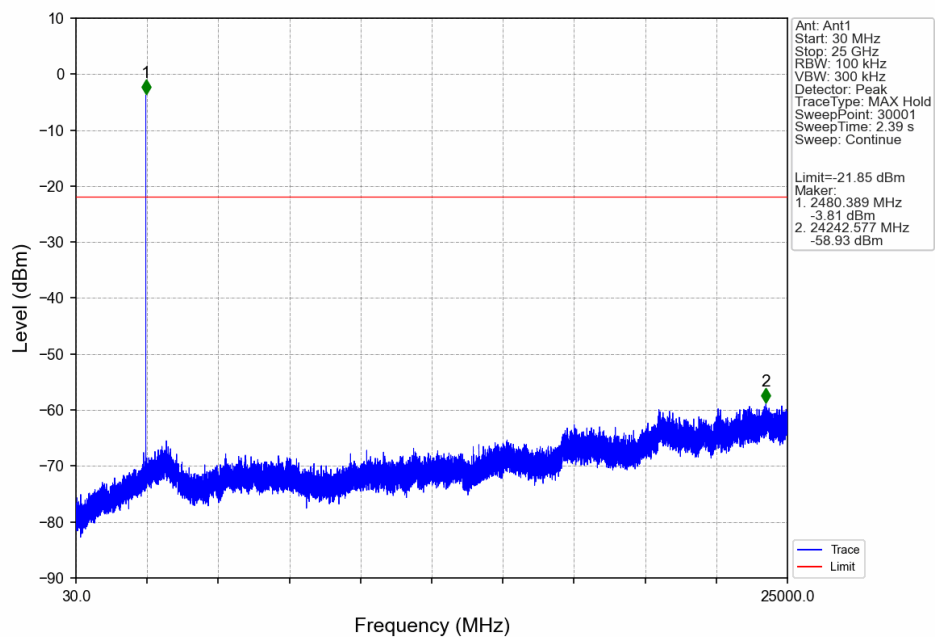
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

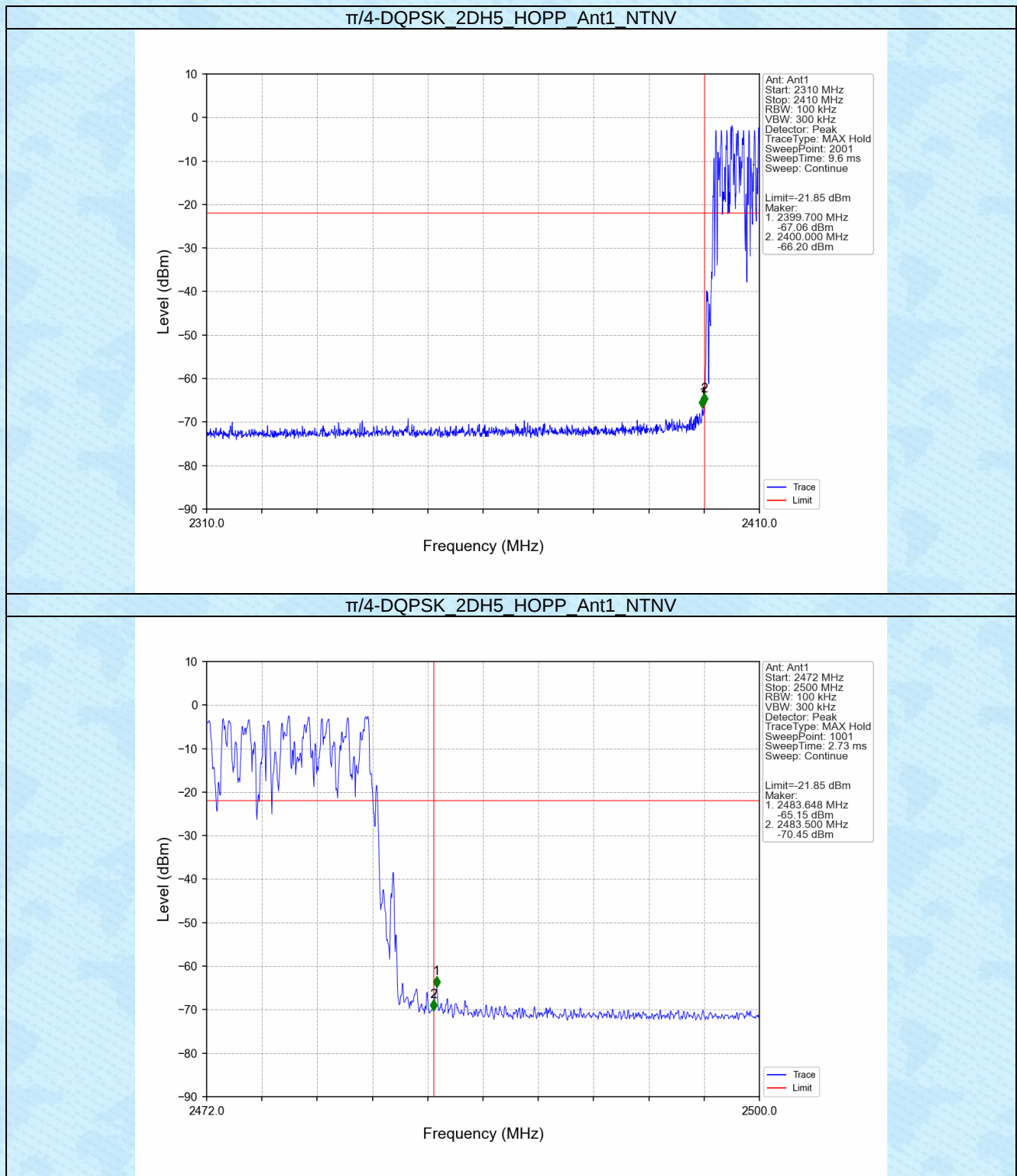


$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV





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