

Appendix - BT

BT-L

1. Bandwidth

1.1 Test Result

1.1.1 OBW

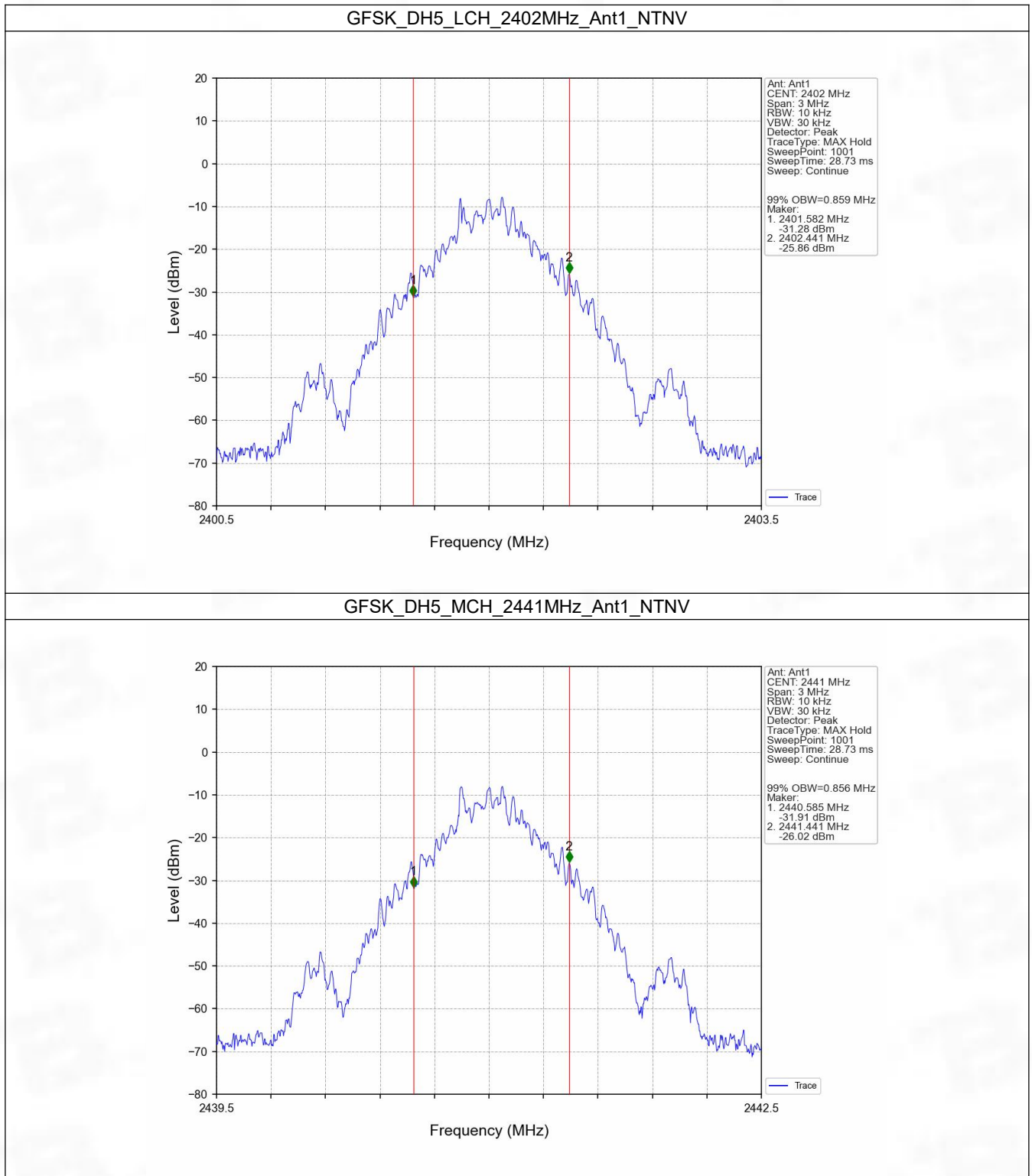
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.859	/	Pass
		2441	DH5	1	0.856	/	Pass
		2480	DH5	1	0.865	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.159	/	Pass
		2441	2DH5	1	1.162	/	Pass
		2480	2DH5	1	1.161	/	Pass
8DPSK	SISO	2402	3DH5	1	1.157	/	Pass
		2441	3DH5	1	1.158	/	Pass
		2480	3DH5	1	1.160	/	Pass

1.1.2 20dB BW

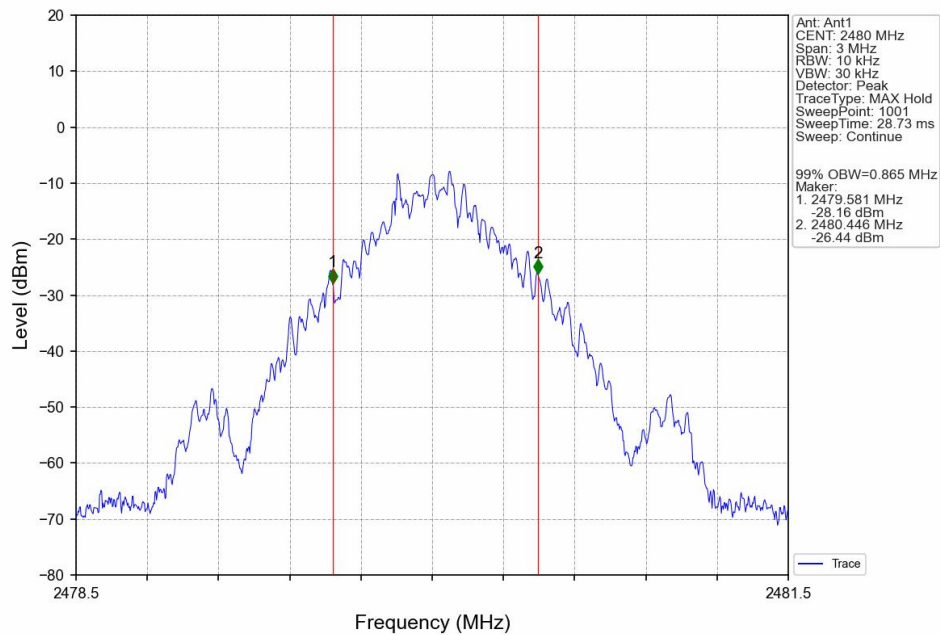
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.924	/	Pass
		2441	DH5	1	0.927	/	Pass
		2480	DH5	1	0.925	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.257	/	Pass
		2441	2DH5	1	1.255	/	Pass
		2480	2DH5	1	1.259	/	Pass
8DPSK	SISO	2402	3DH5	1	1.254	/	Pass
		2441	3DH5	1	1.253	/	Pass
		2480	3DH5	1	1.286	/	Pass

1.2 Test Graph

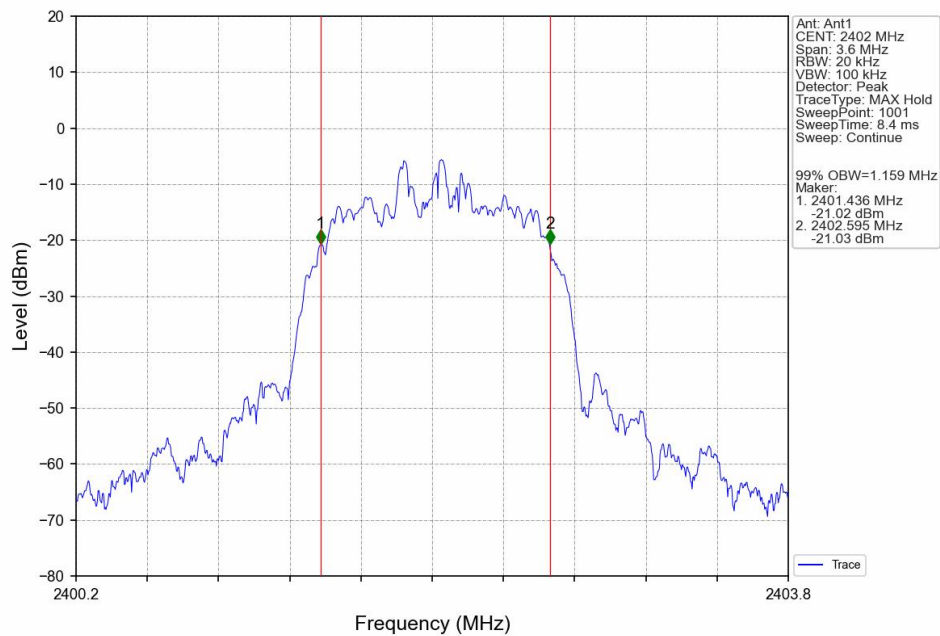
1.2.1 OBW



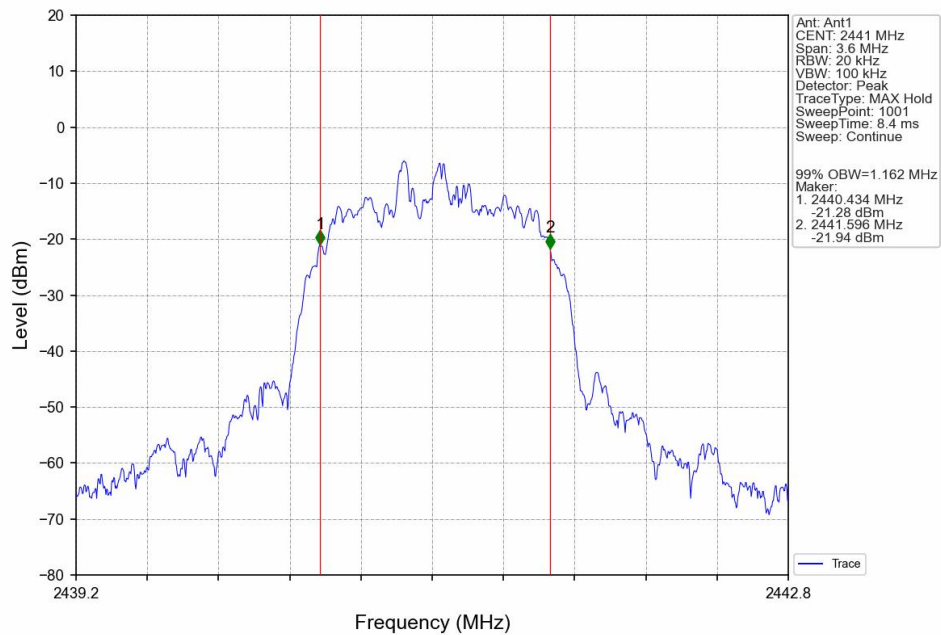
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



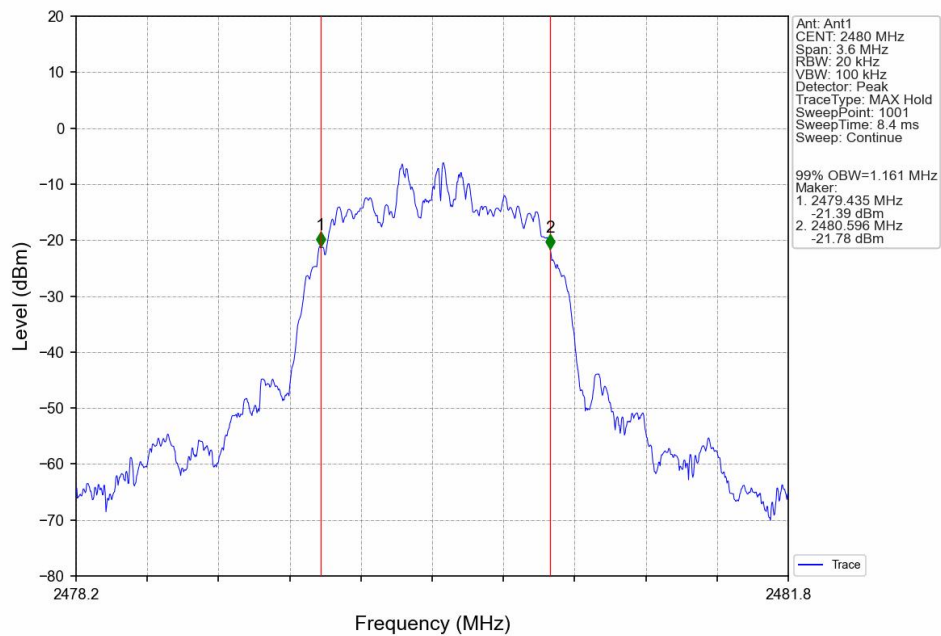
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



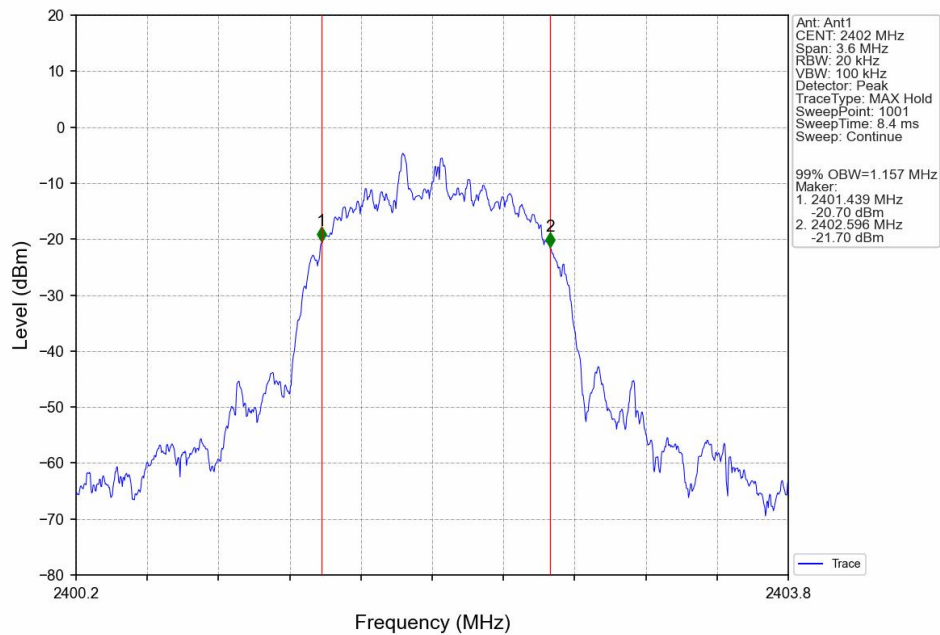
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



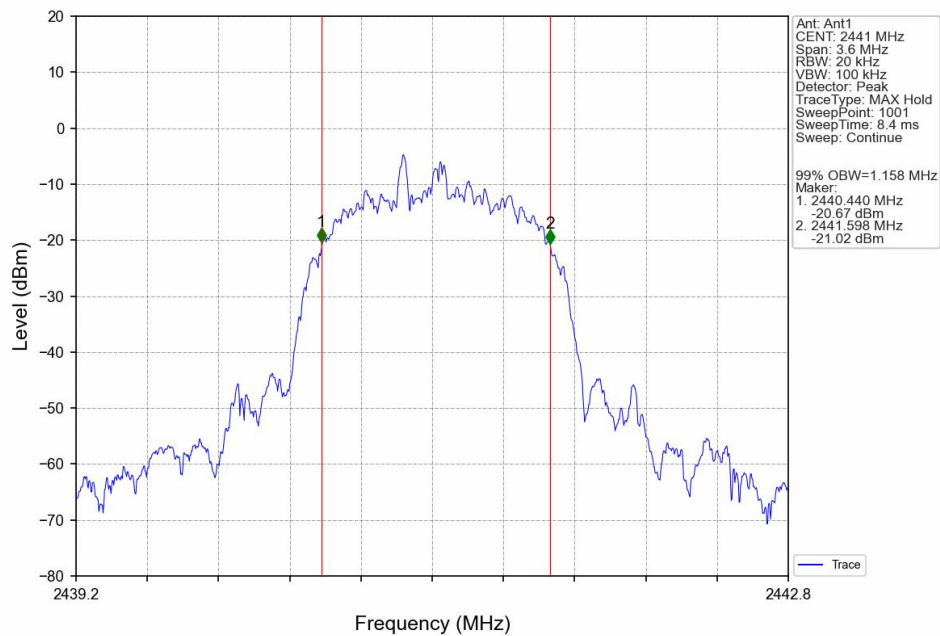
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

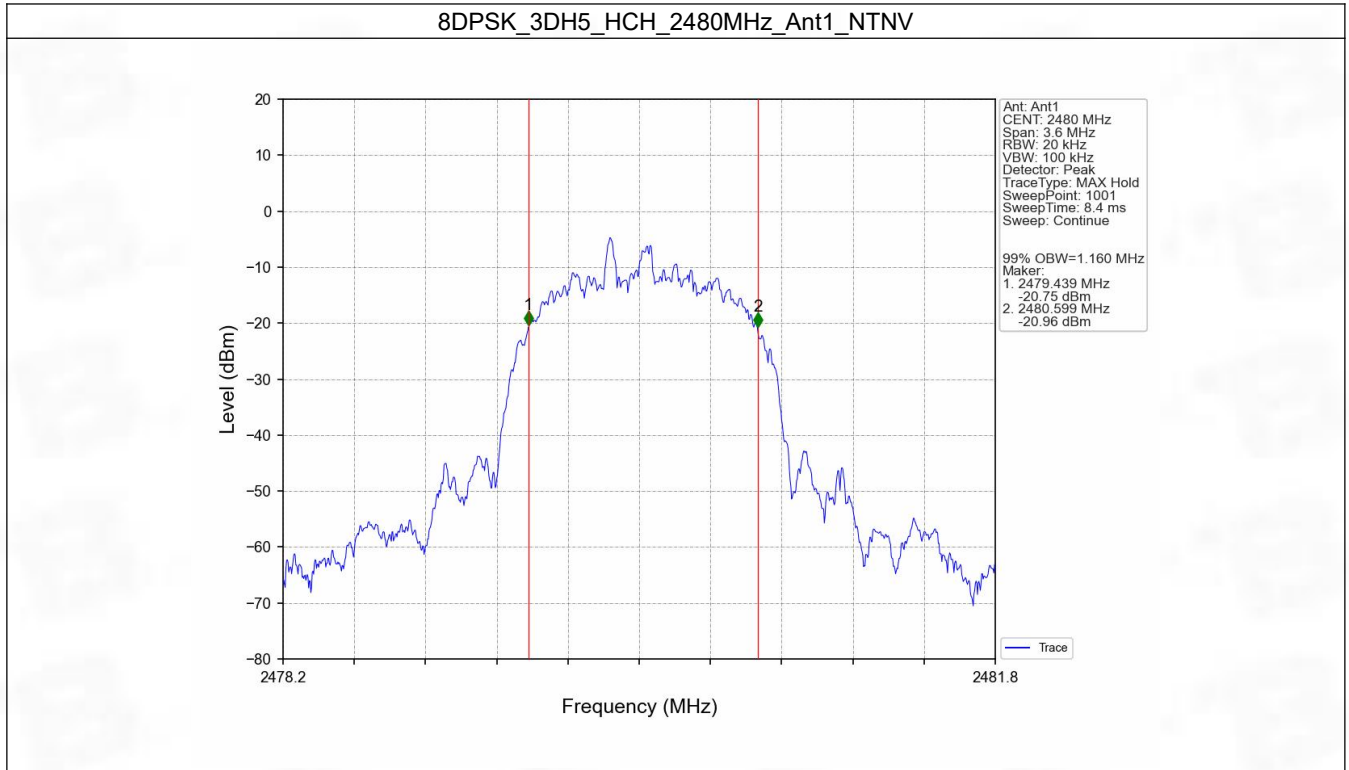


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

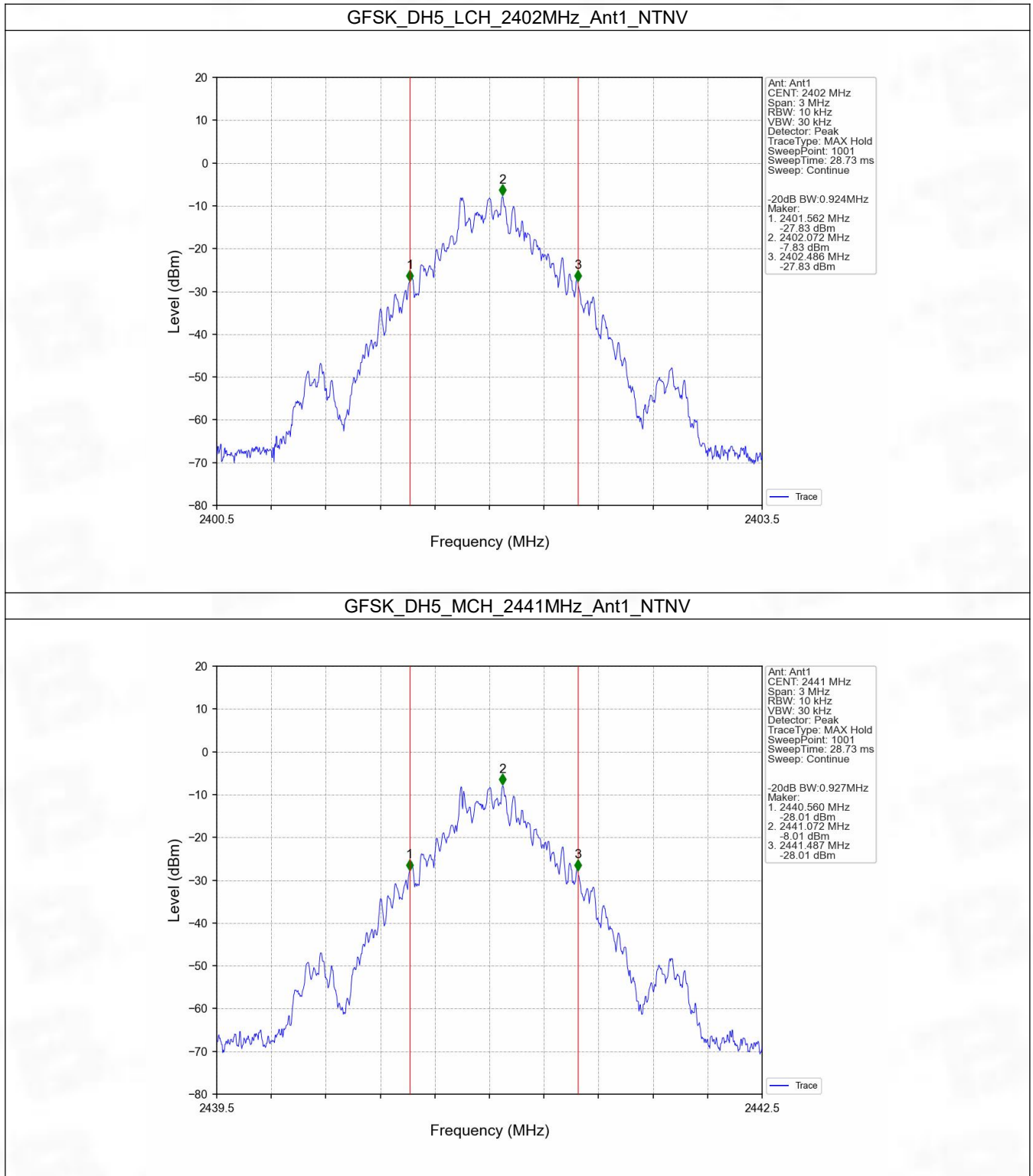


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

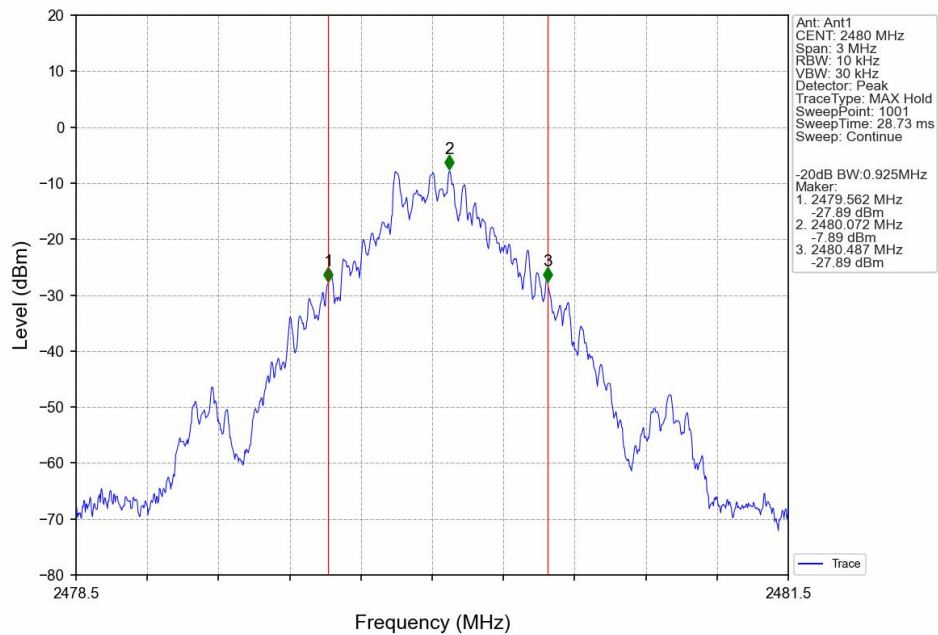




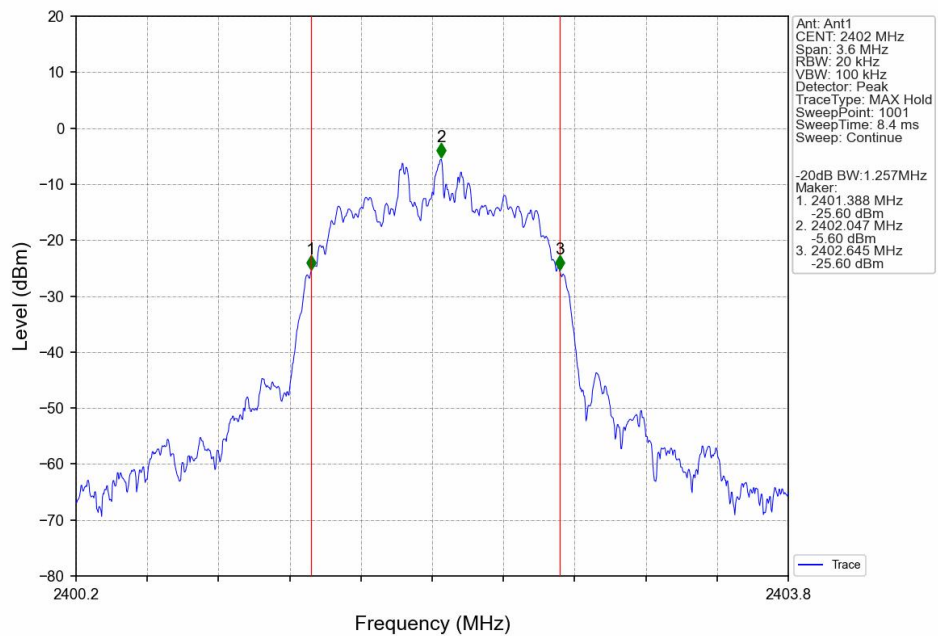
1.2.2 20dB BW



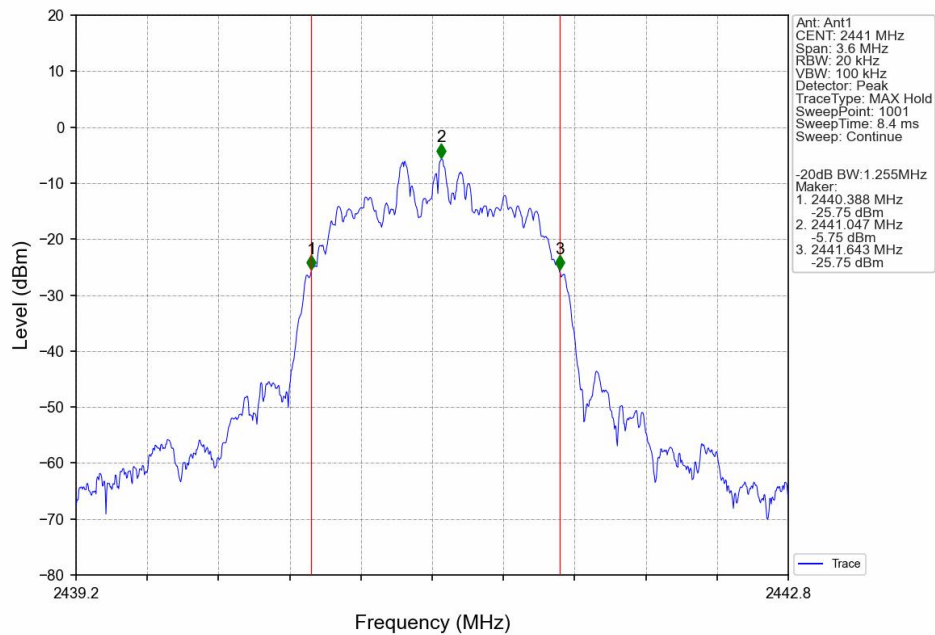
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



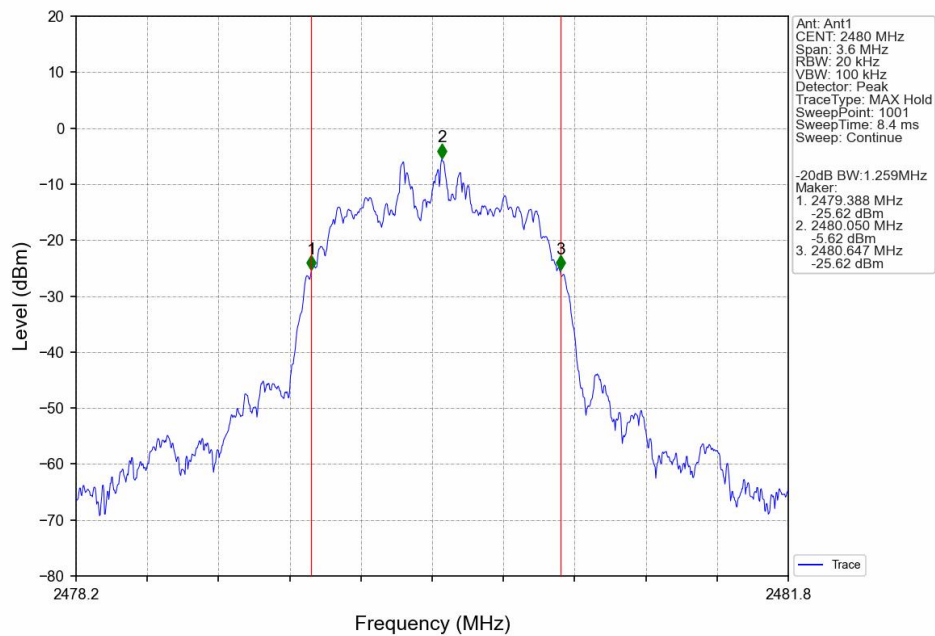
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



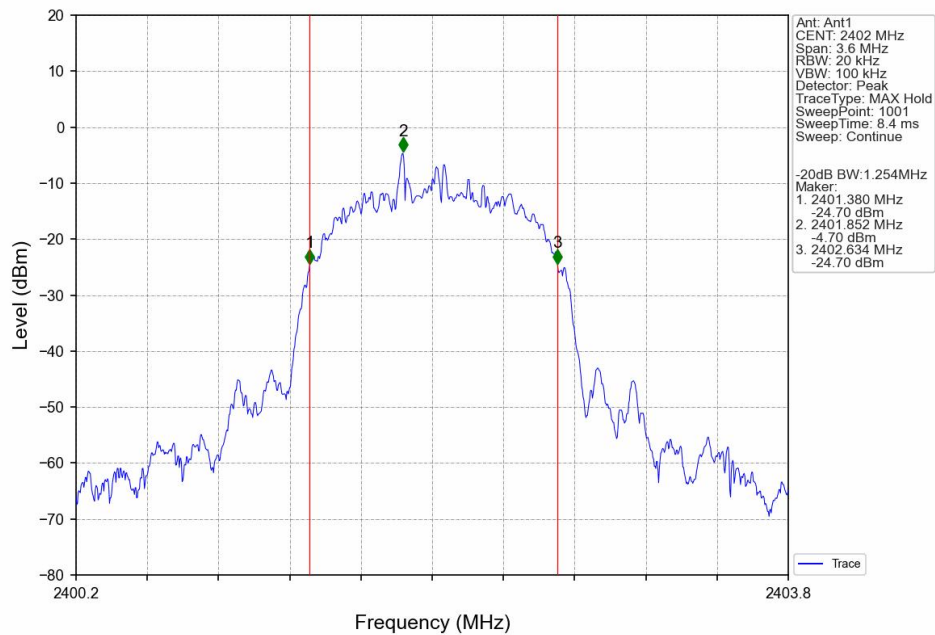
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



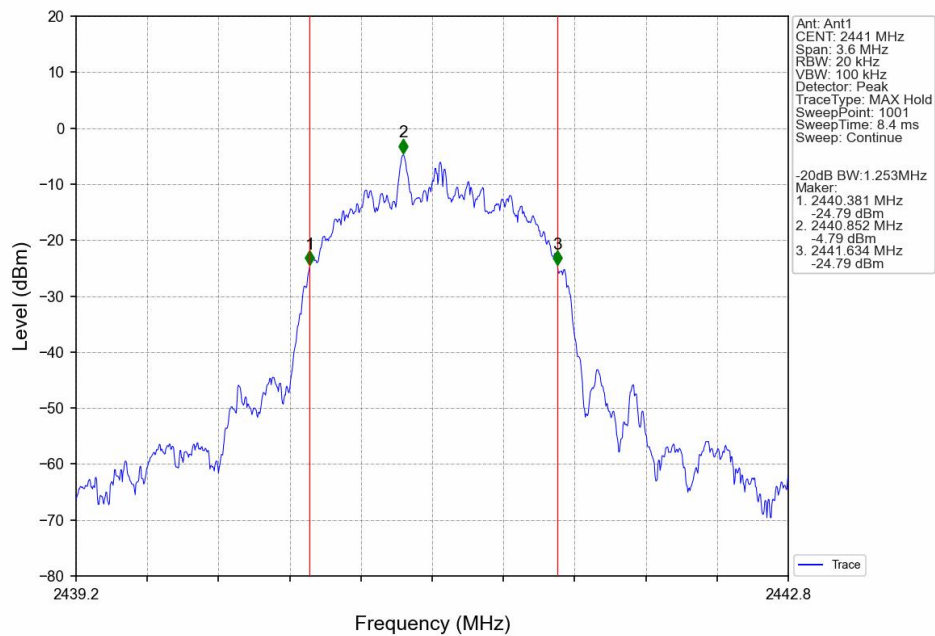
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

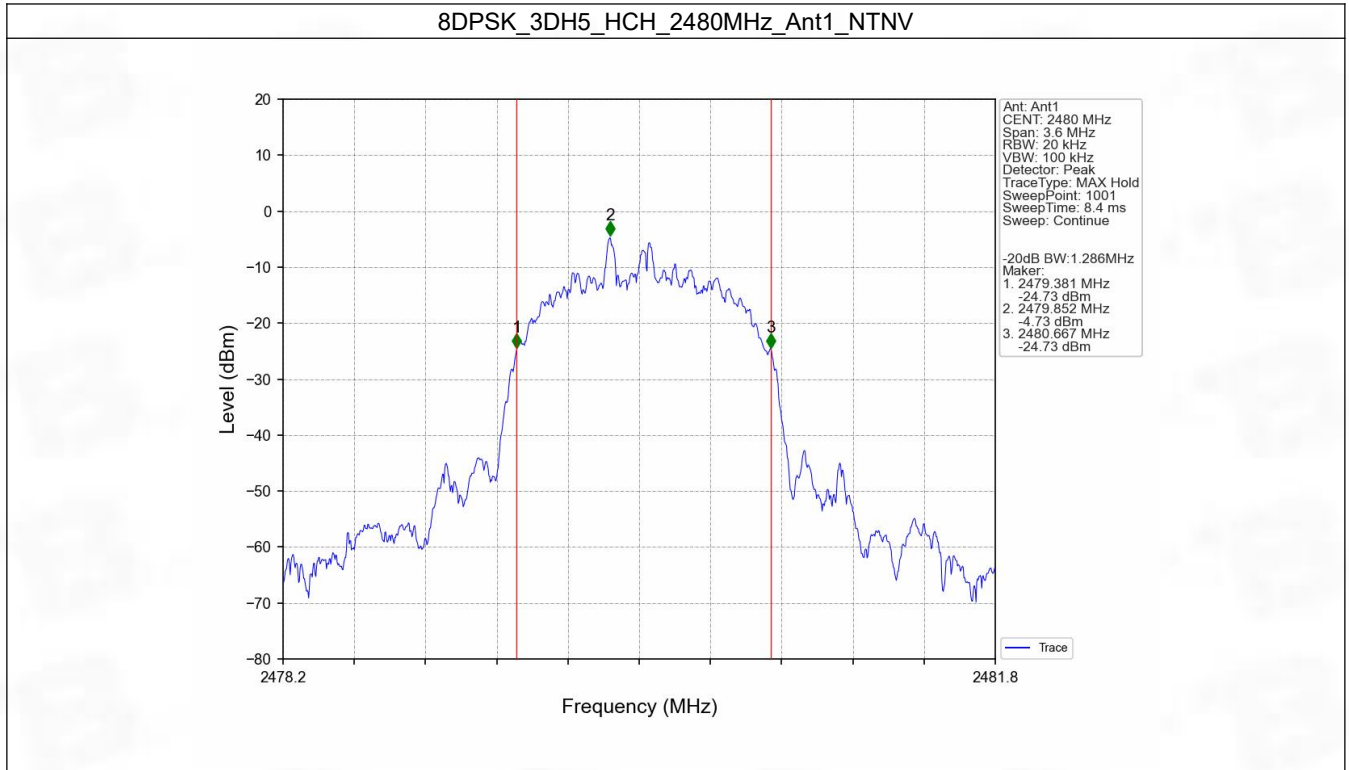


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





2. Maximum Conducted Output Power

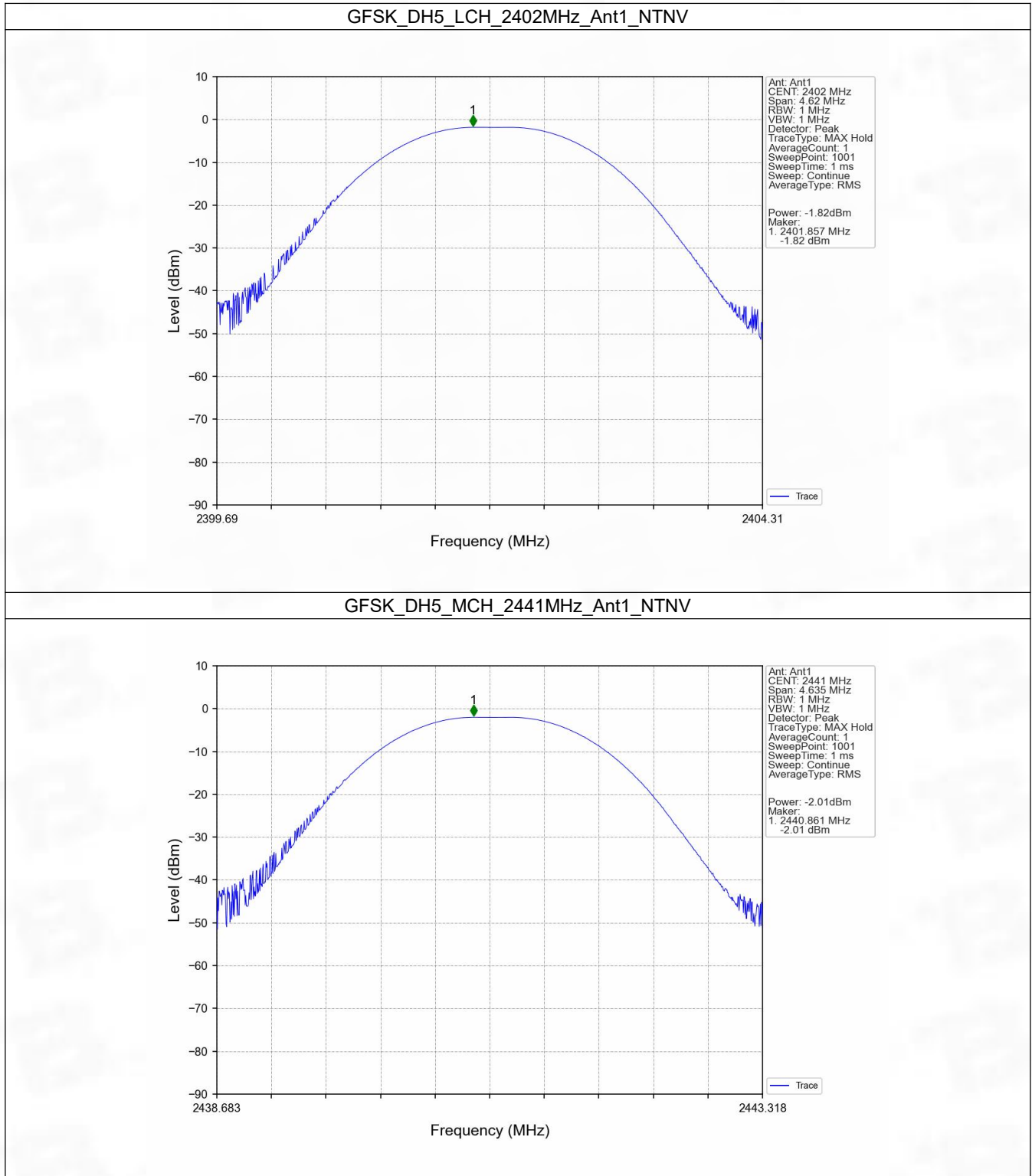
2.1 Test Result

2.1.1 Power

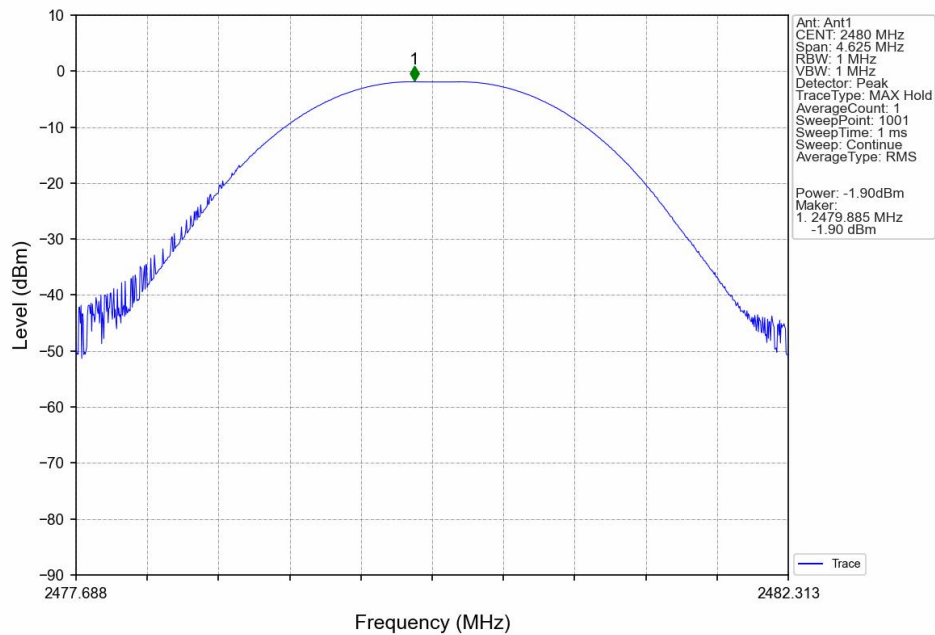
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-1.82	<=30	Pass
		2441	DH5	-2.01	<=30	Pass
		2480	DH5	-1.90	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-0.98	<=20.97	Pass
		2441	2DH5	-1.17	<=20.97	Pass
		2480	2DH5	-1.05	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-0.47	<=20.97	Pass
		2441	3DH5	-0.66	<=20.97	Pass
		2480	3DH5	-0.54	<=20.97	Pass
Note1: Antenna Gain: Ant1: 2.70dBi;						

2.2 Test Graph

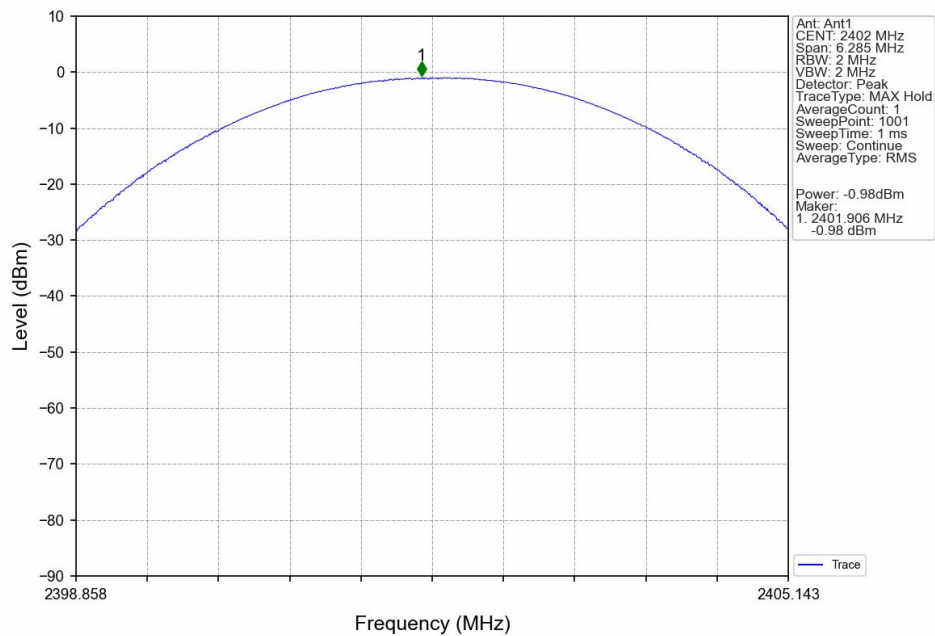
2.2.1 Power



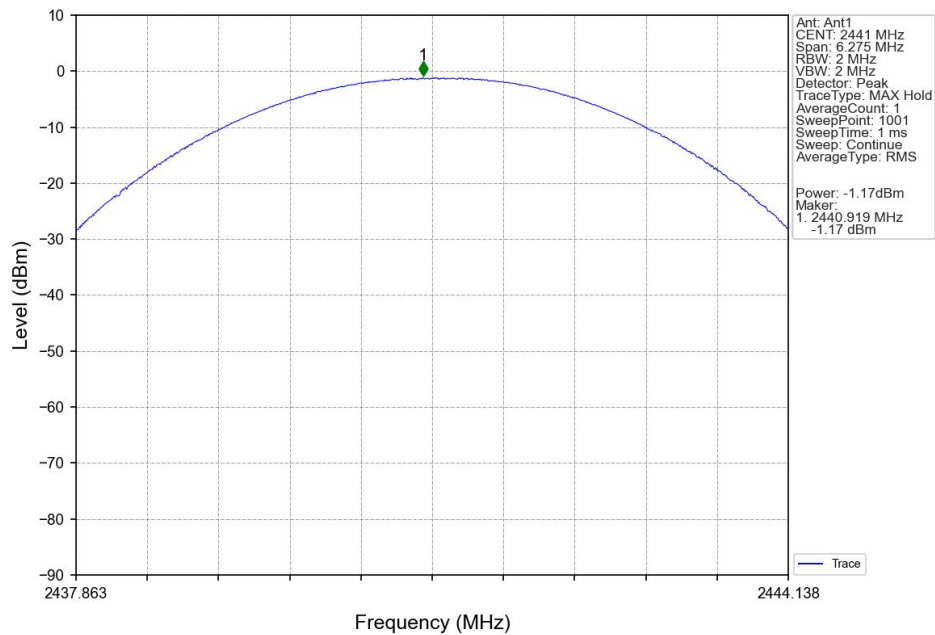
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



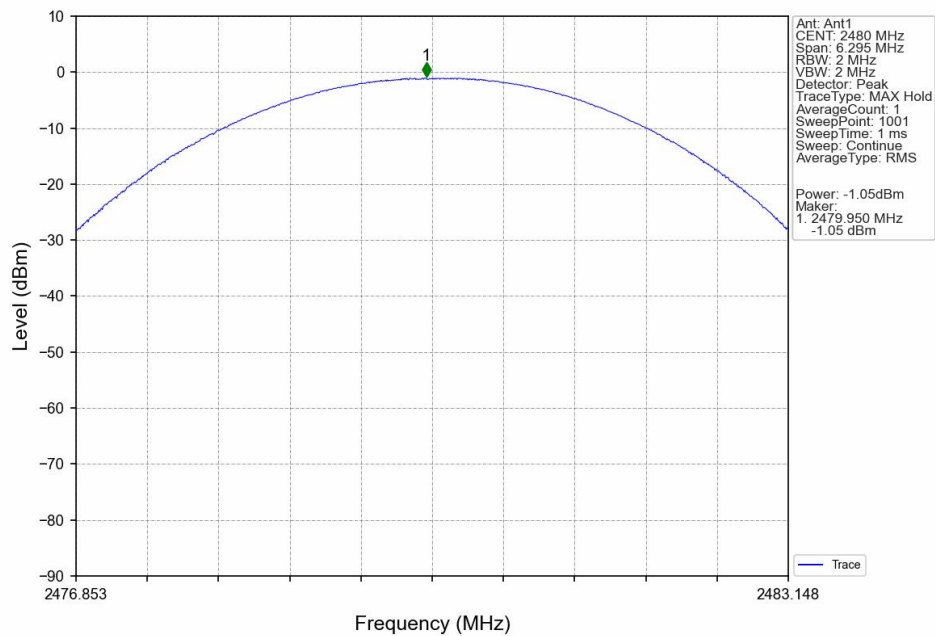
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



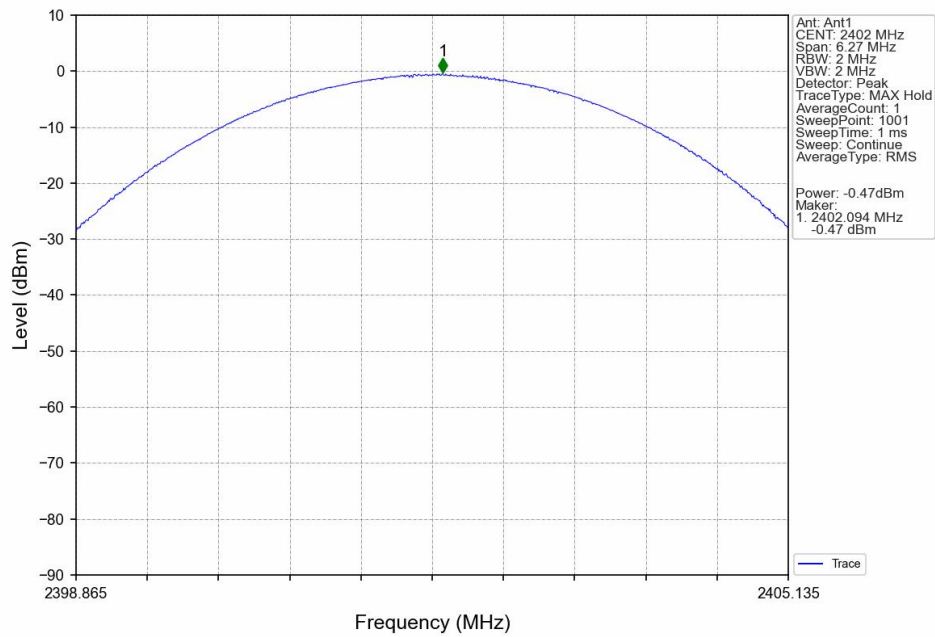
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



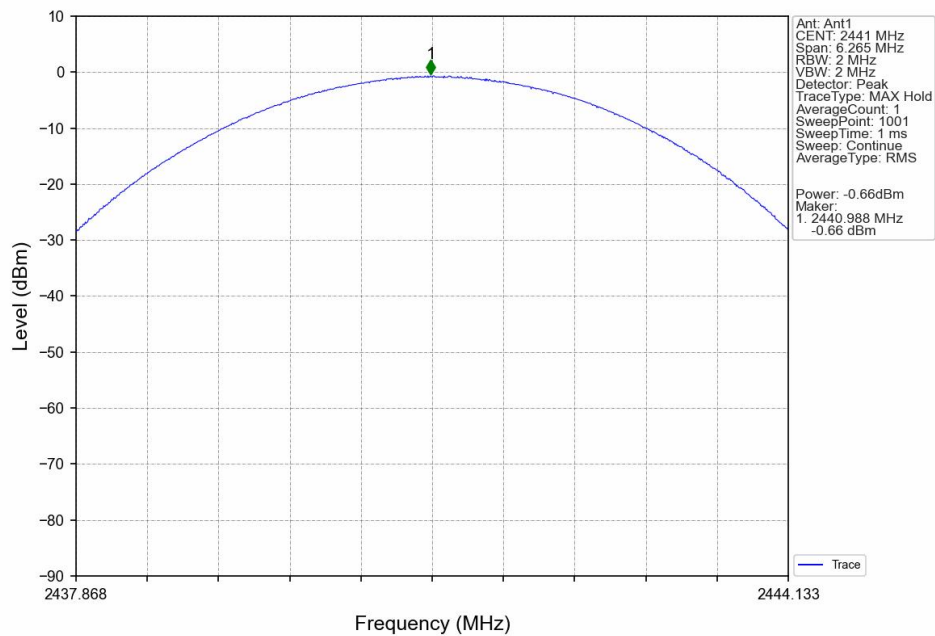
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

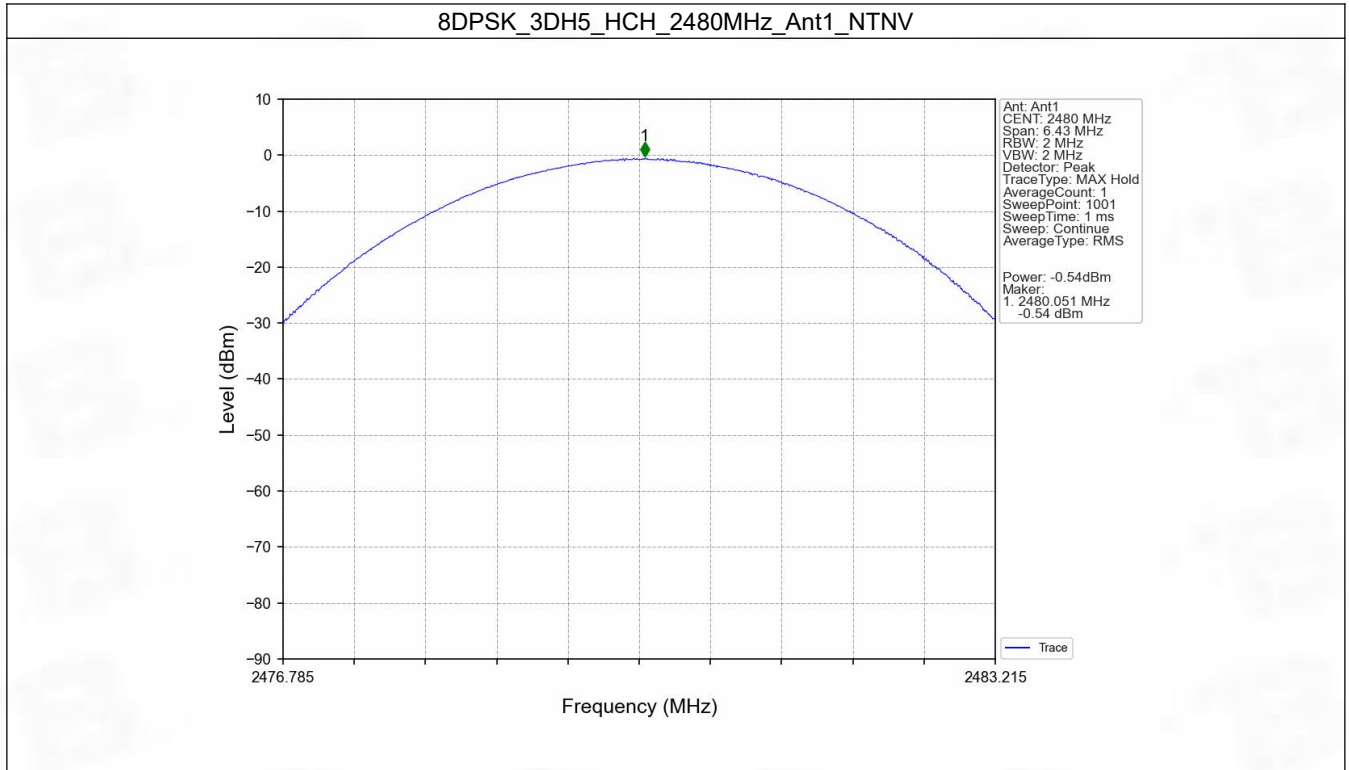


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





3. Carrier Frequency Separation

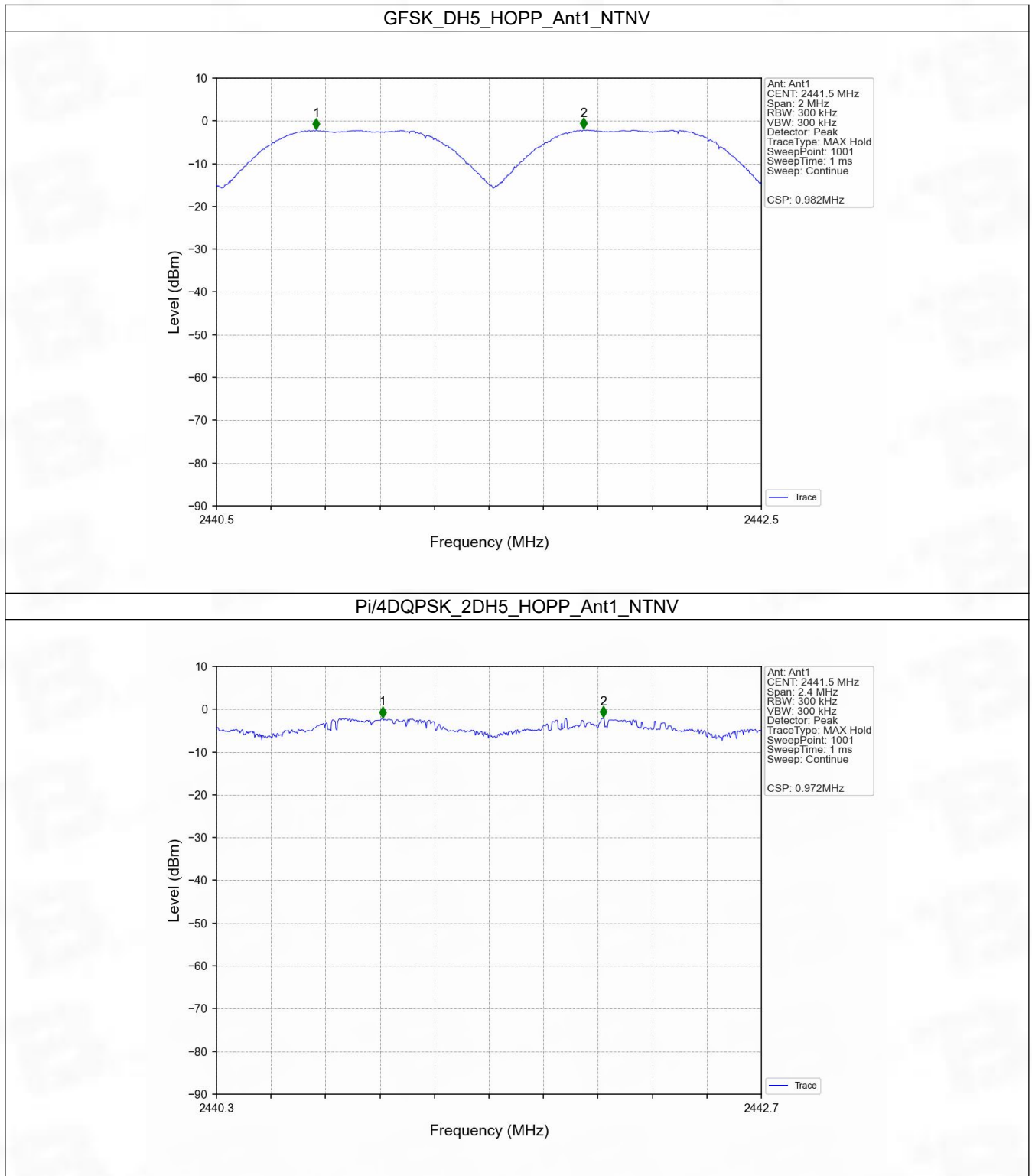
3.1 Test Result

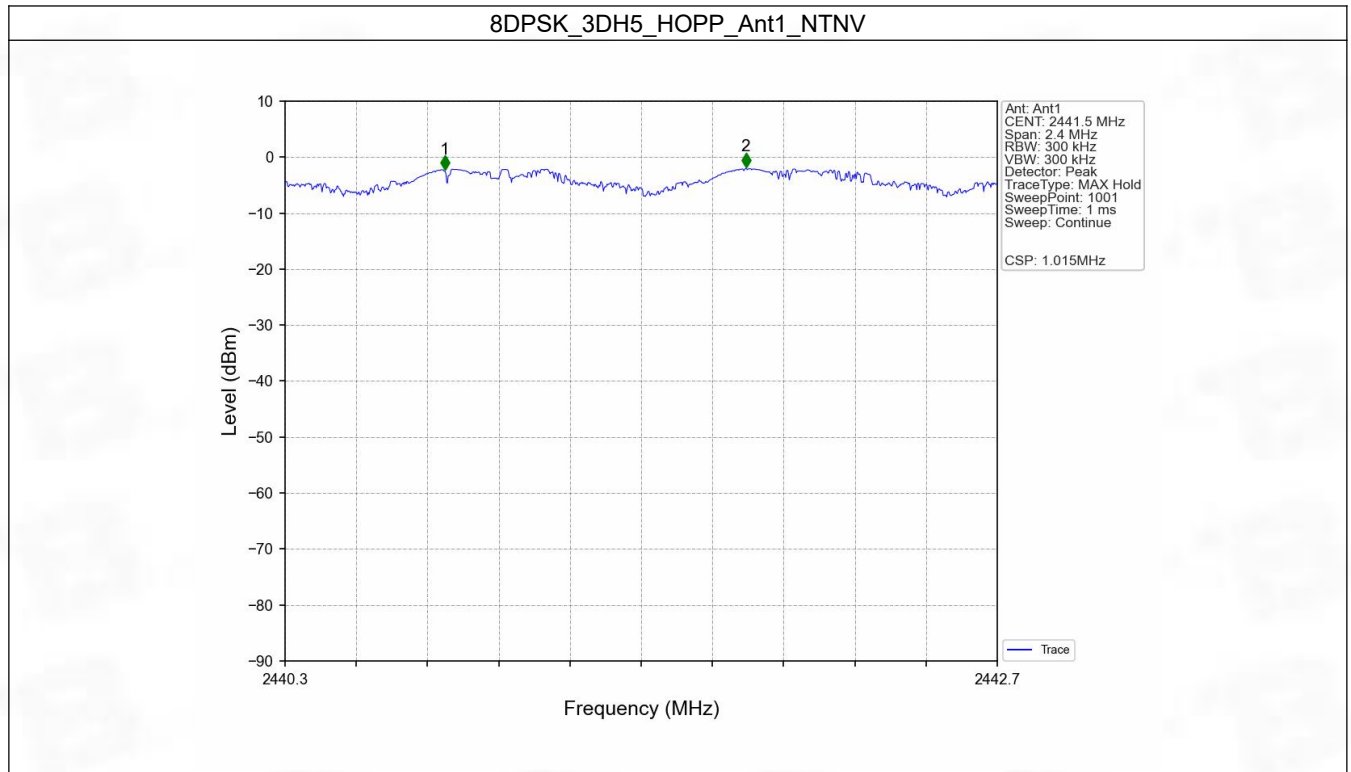
3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.982	0.927	≥ 0.927	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.972	1.259	≥ 0.839	Pass
8DPSK	SISO	HOPP	3DH5	1.015	1.286	≥ 0.857	Pass

3.2 Test Graph

3.2.1 Ant1





4. Number of Hopping Frequencies

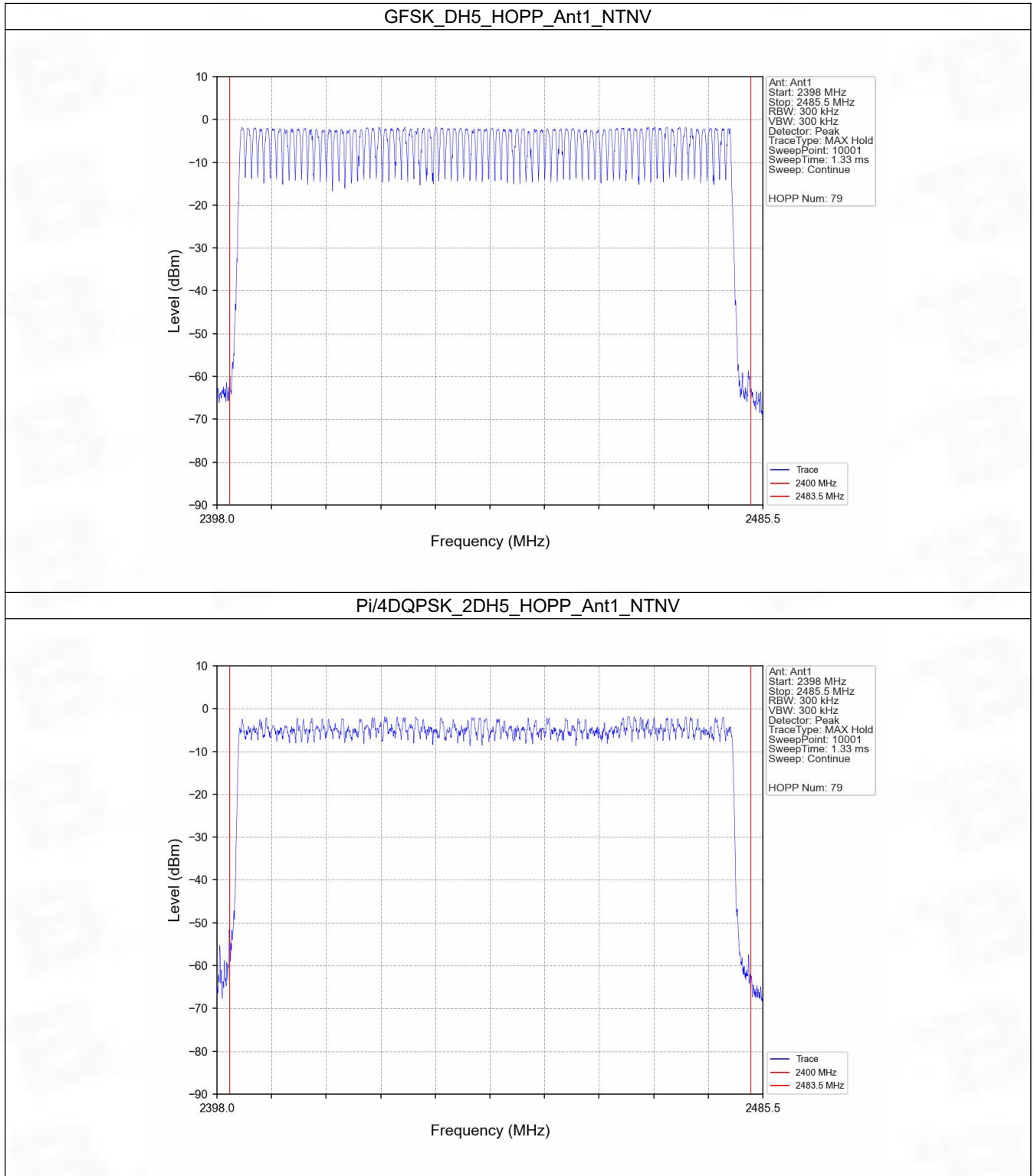
4.1 Test Result

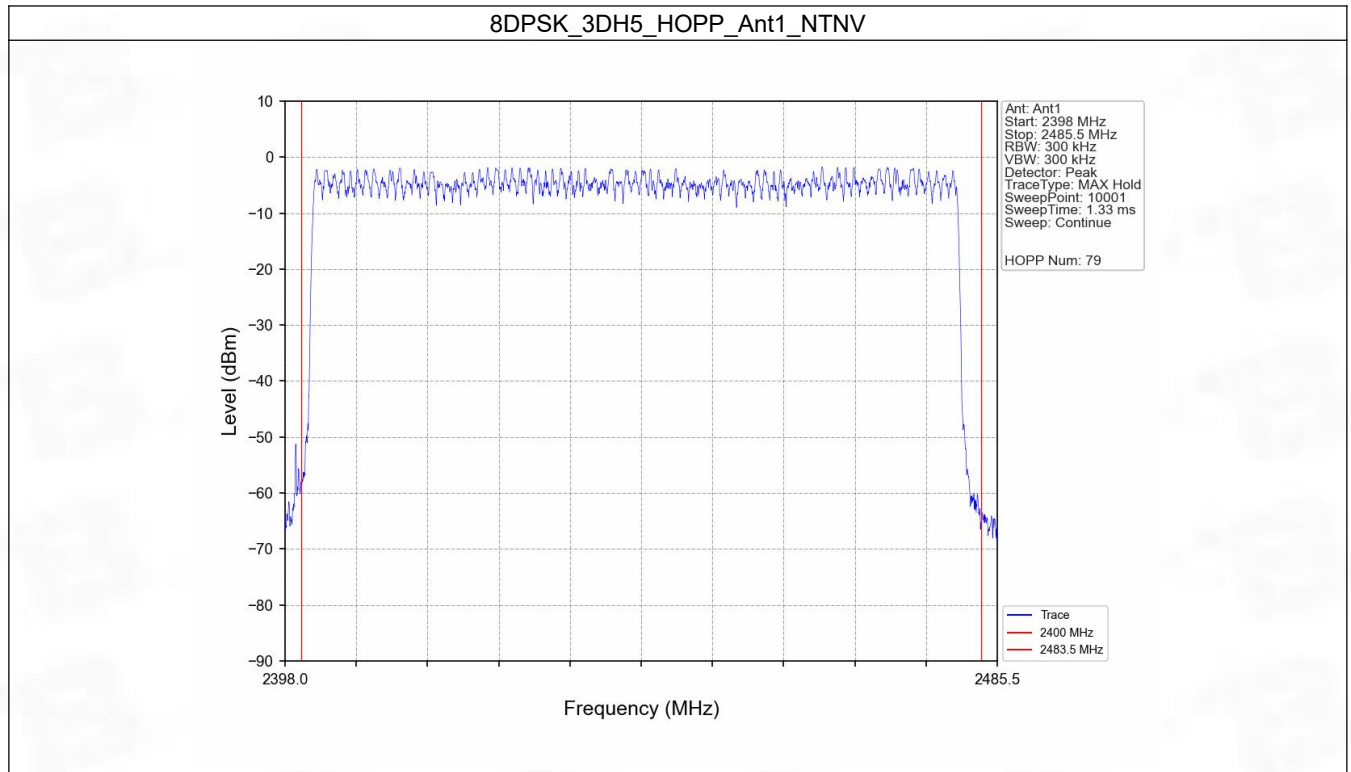
4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass

4.2 Test Graph

4.2.1 HoppNum





5. Time of Occupancy (Dwell Time)

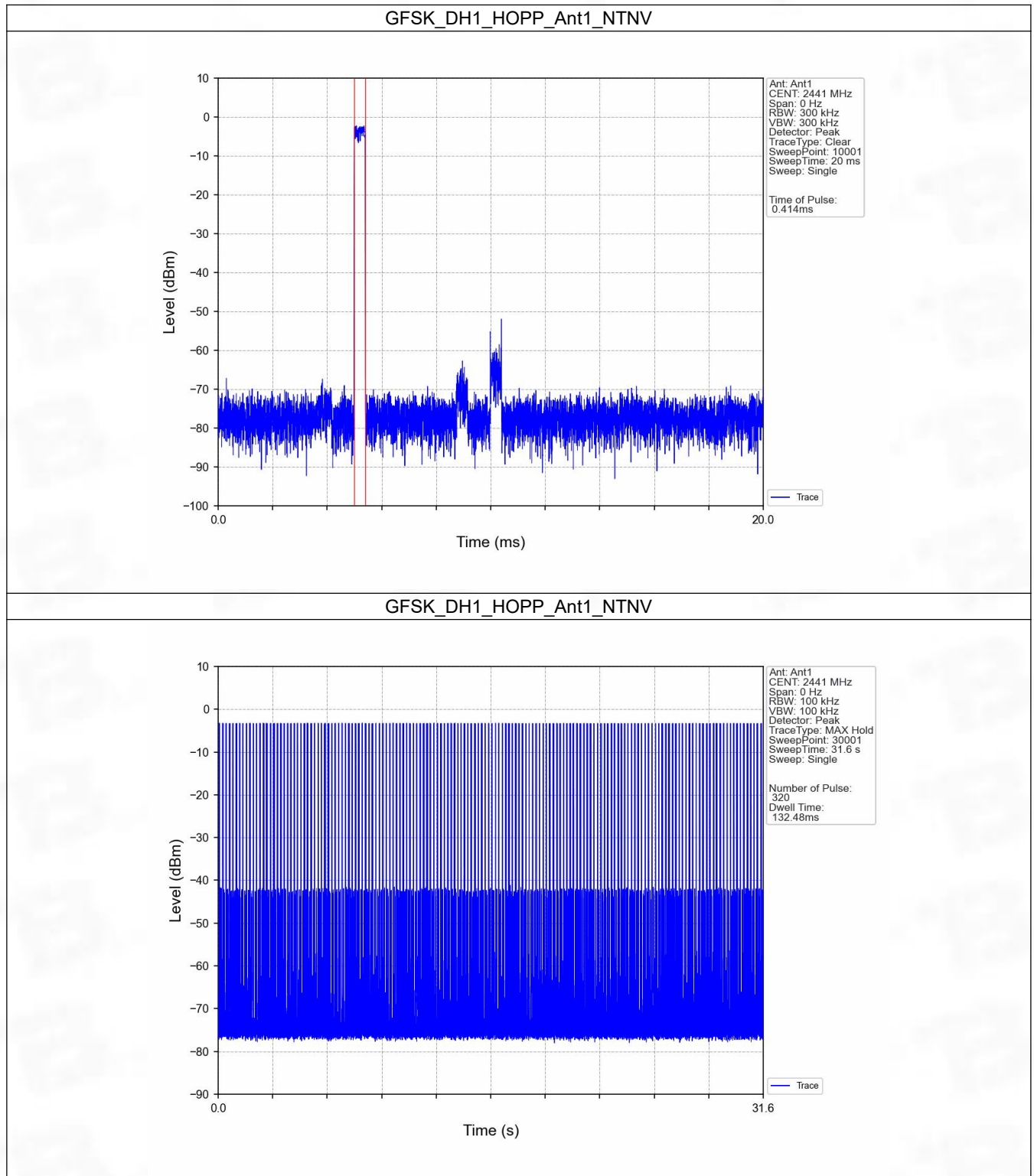
5.1 Test Result

5.1.1 Ant1

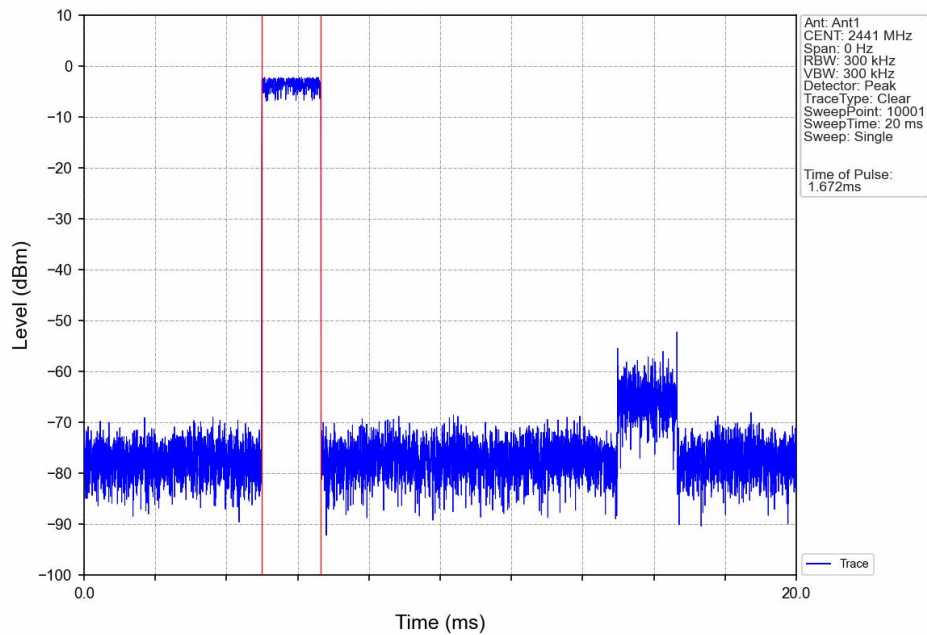
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.414	31.600	320	132.480	<=400	Pass
			DH3	1.672	31.600	162	270.864	<=400	Pass
			DH5	2.922	31.600	105	306.810	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.426	31.600	320	136.320	<=400	Pass
			2DH3	1.680	31.600	157	263.760	<=400	Pass
			2DH5	2.928	31.600	95	278.160	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.422	31.600	320	135.040	<=400	Pass
			3DH3	1.674	31.600	162	271.188	<=400	Pass
			3DH5	2.926	31.600	107	313.082	<=400	Pass

5.2 Test Graph

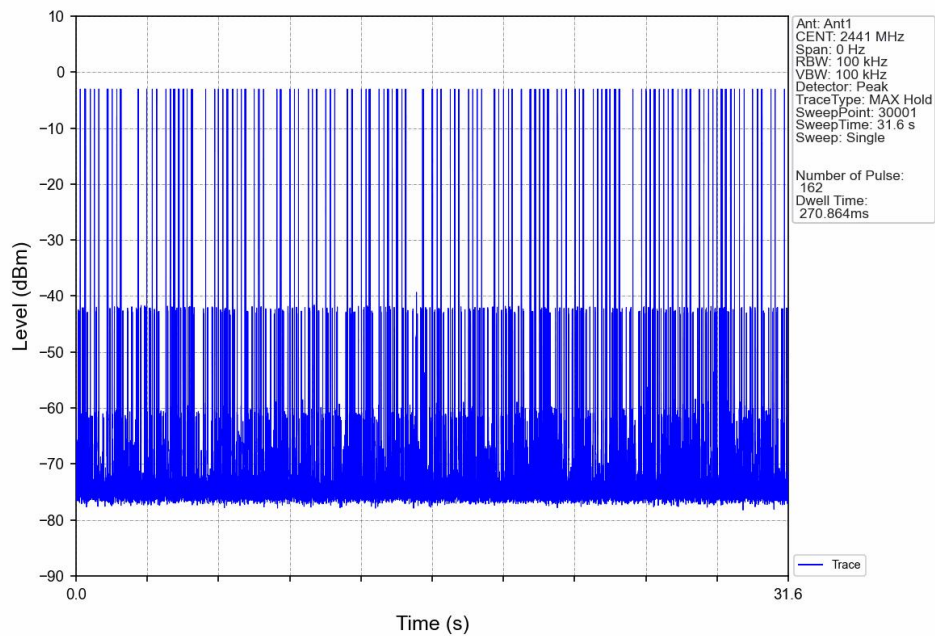
5.2.1 Ant1



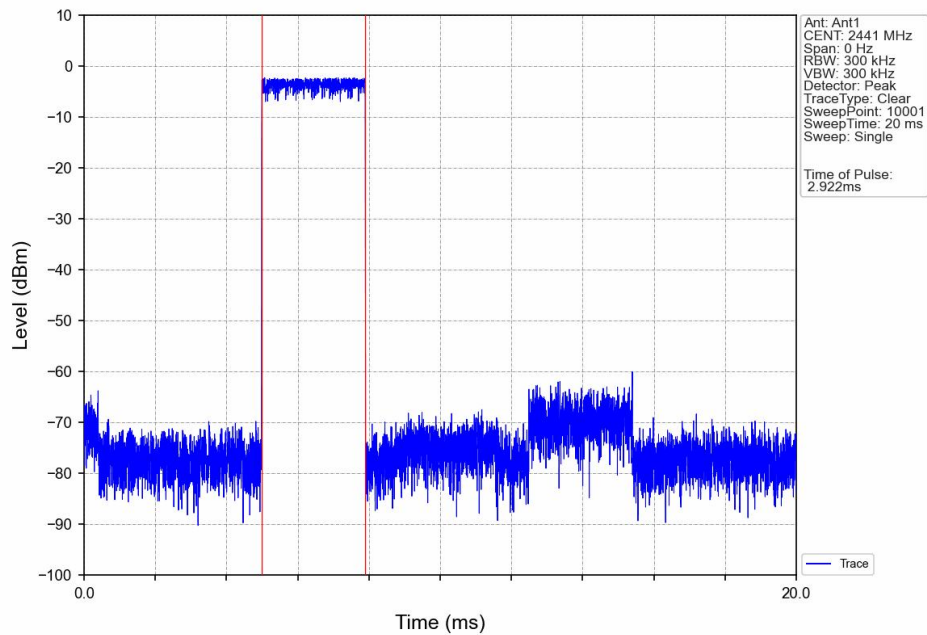
GFSK_DH3_HOPP_Ant1_NTNV



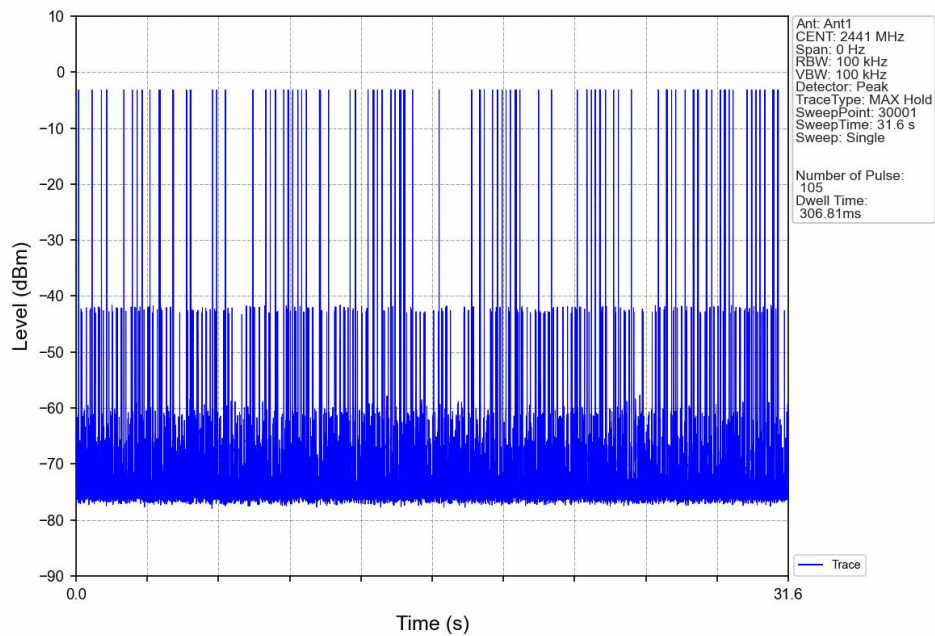
GFSK_DH3_HOPP_Ant1_NTNV



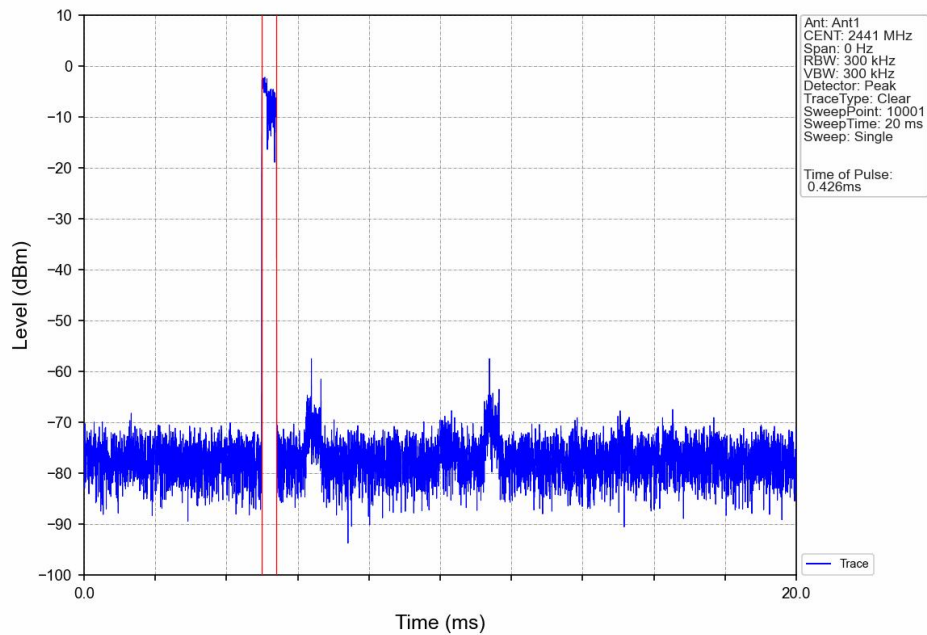
GFSK_DH5_HOPP_Ant1_NTNV



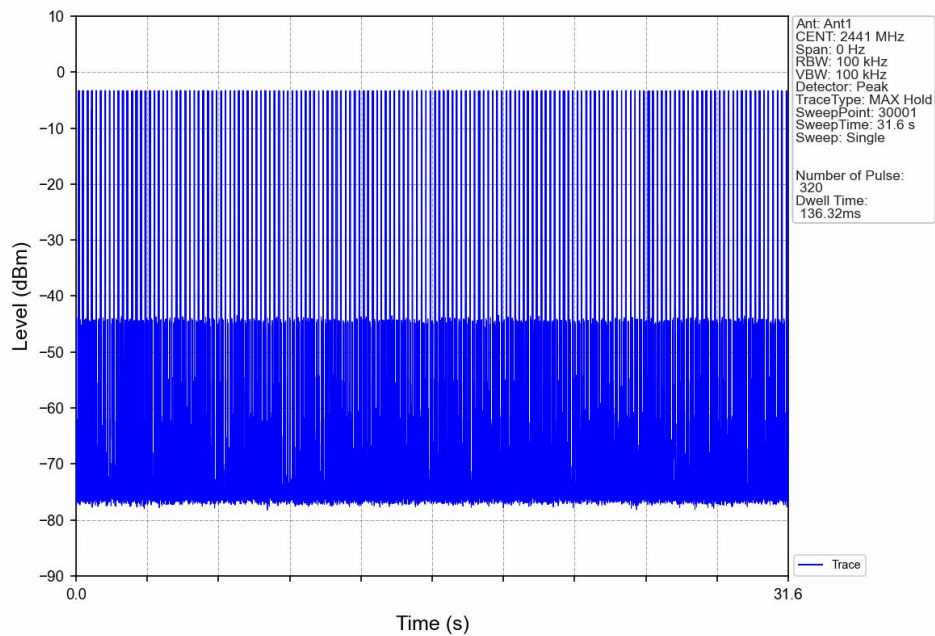
GFSK_DH5_HOPP_Ant1_NTNV



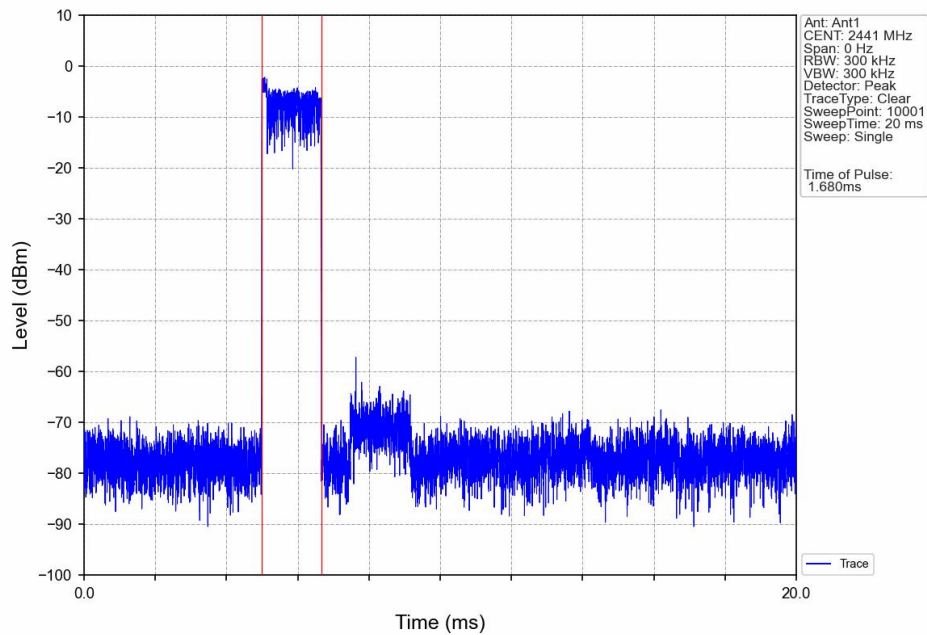
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



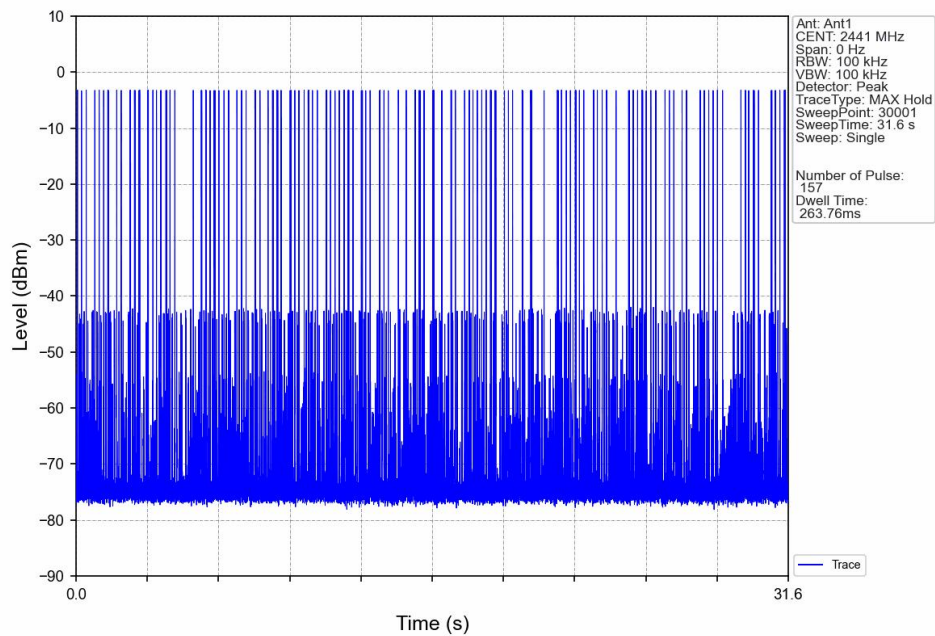
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



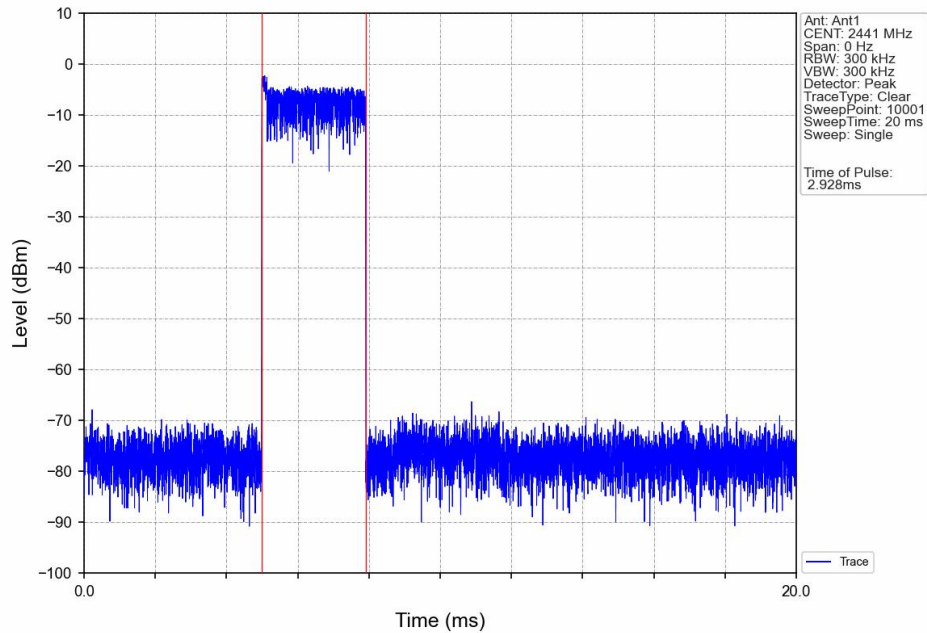
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

