

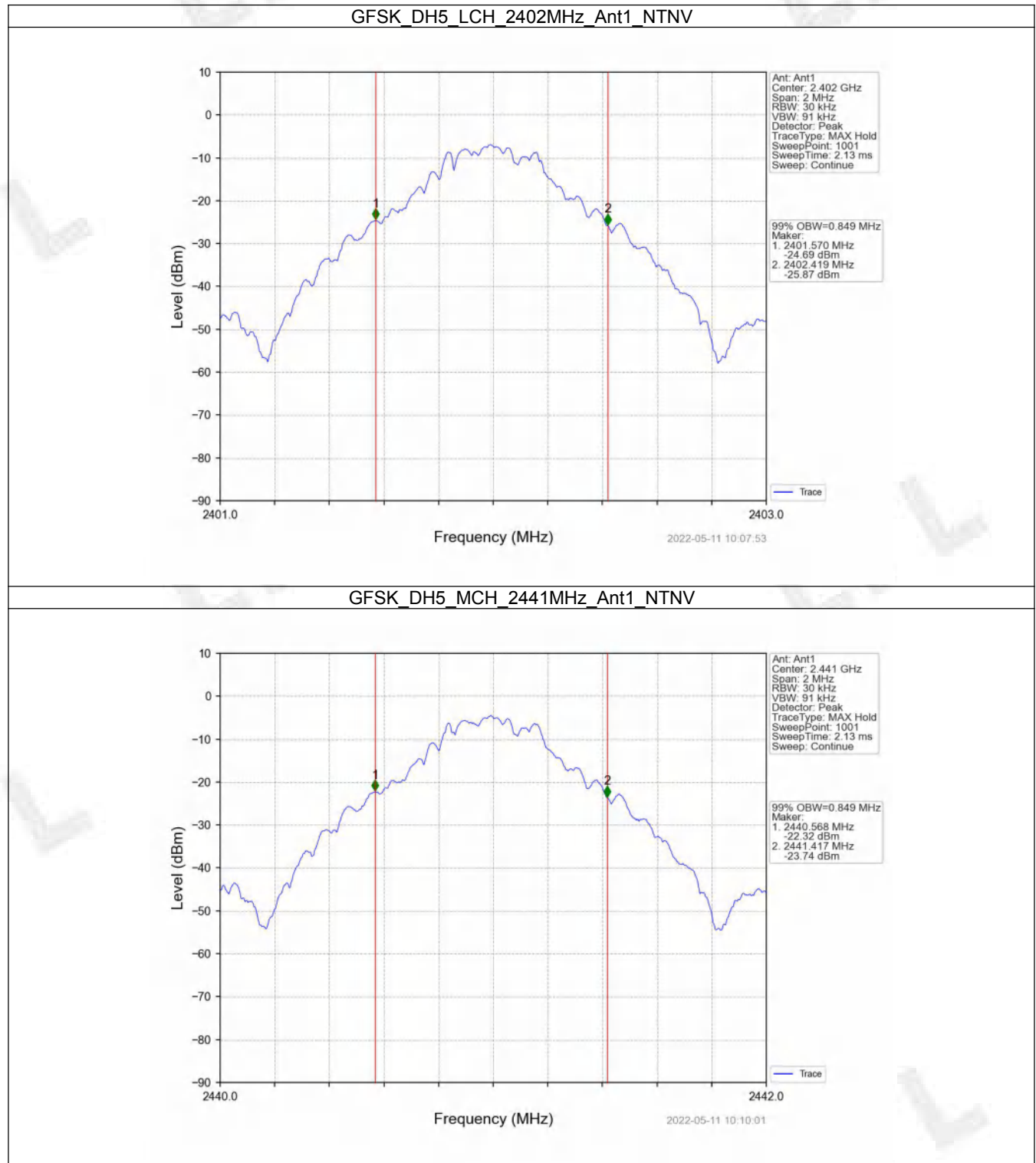
1. Bandwidth

1.1 OBW

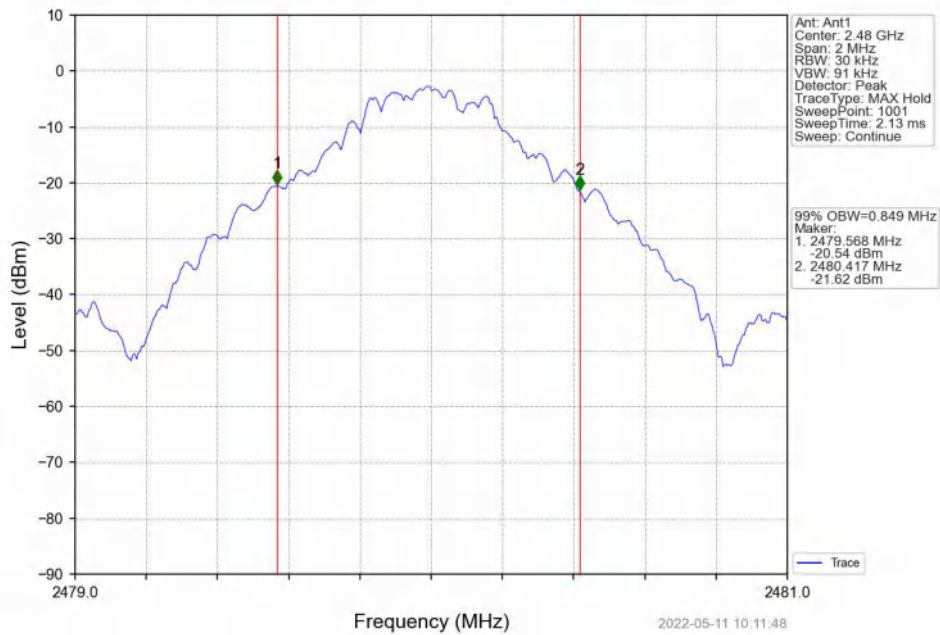
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.849	Pass
		2441	DH5	1	0.849	Pass
		2480	DH5	1	0.849	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.169	Pass
		2441	2DH5	1	1.169	Pass
		2480	2DH5	1	1.170	Pass
8DPSK	SISO	2402	3DH5	1	1.162	Pass
		2441	3DH5	1	1.164	Pass
		2480	3DH5	1	1.164	Pass

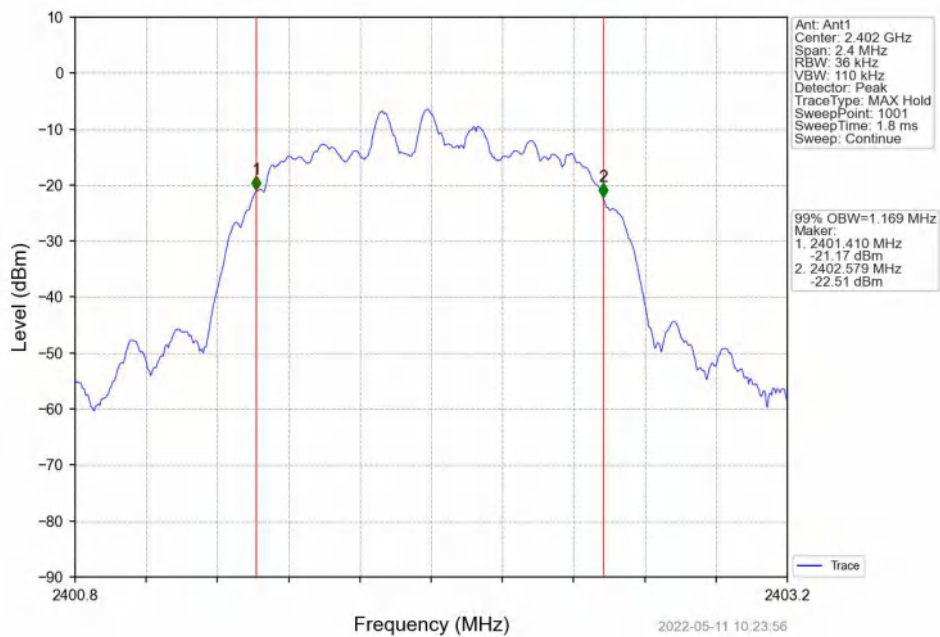
1.1.2 Test Graph



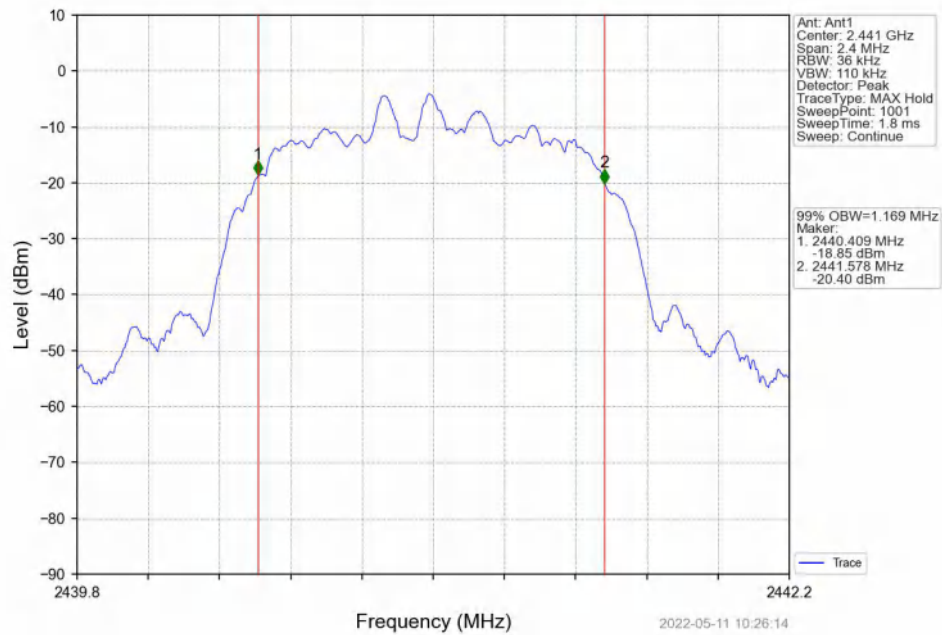
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



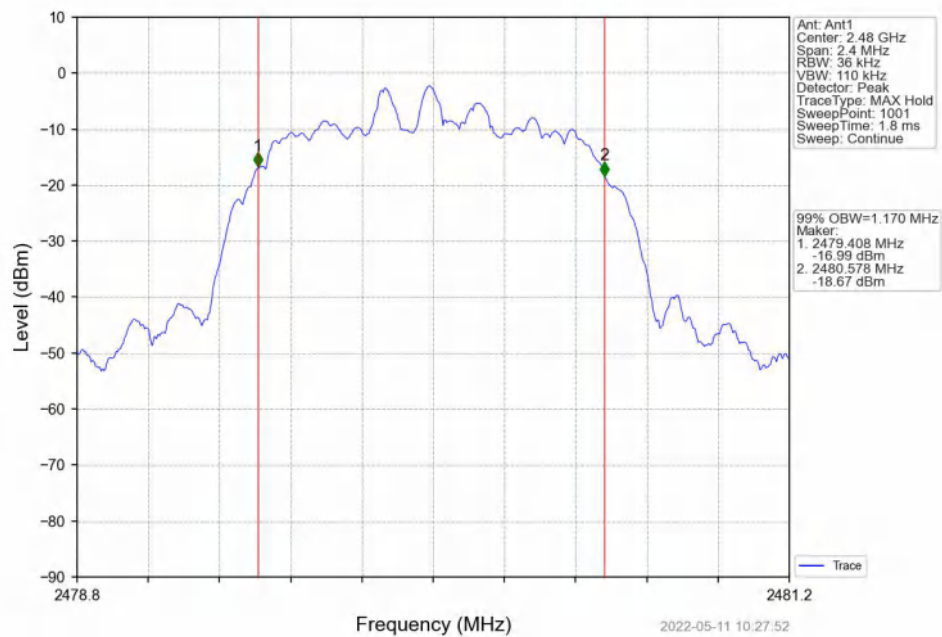
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



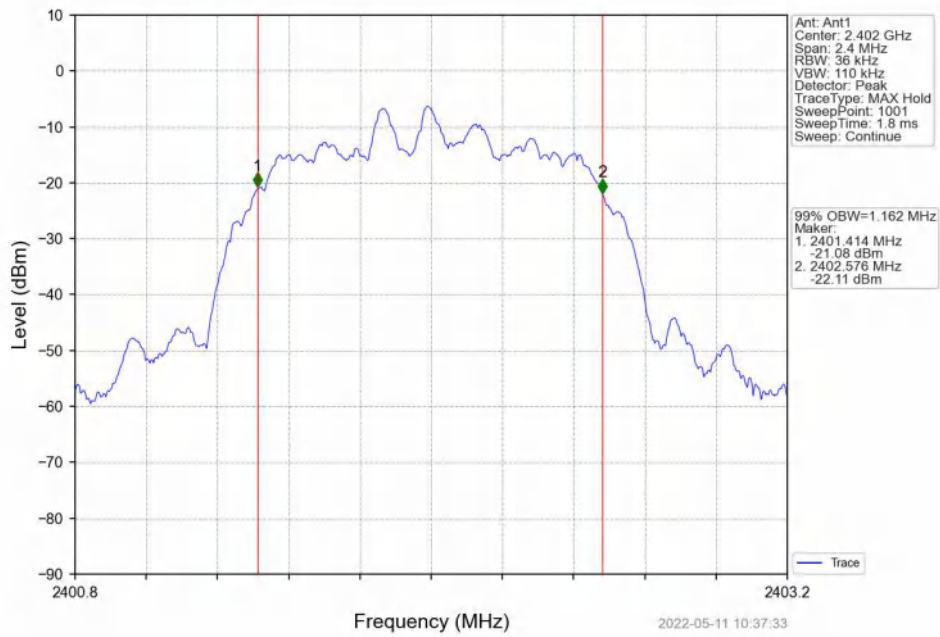
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



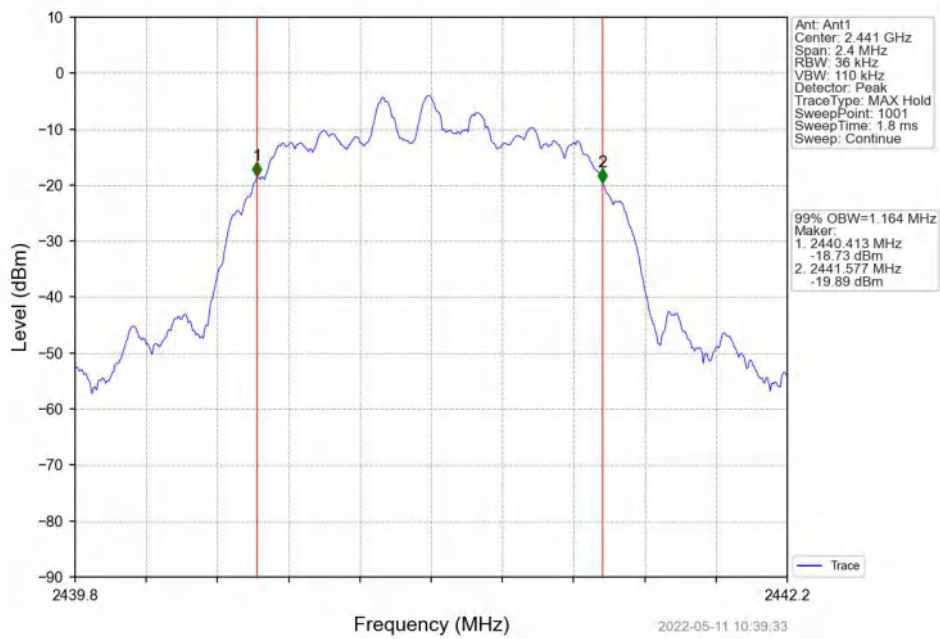
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



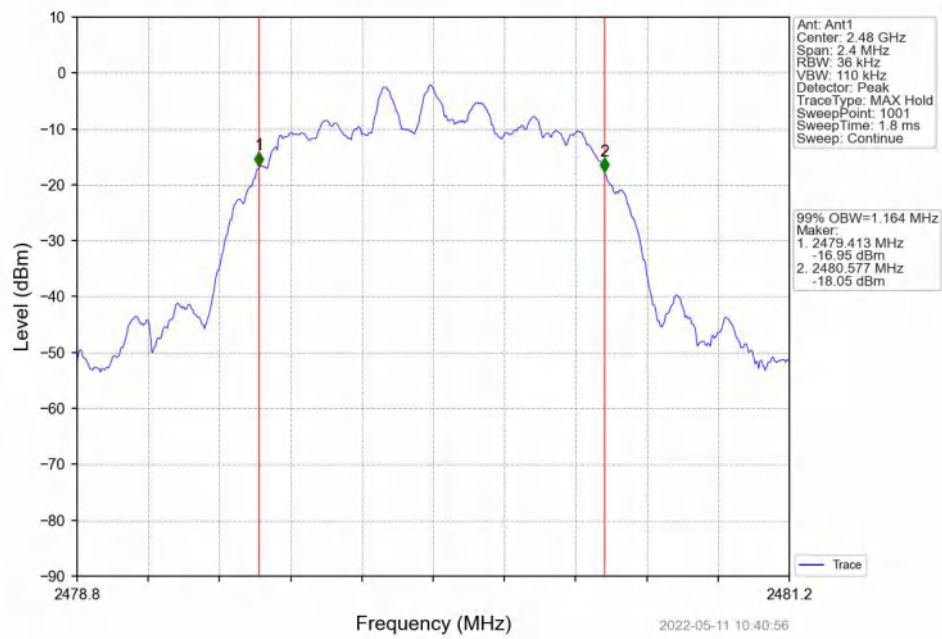
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

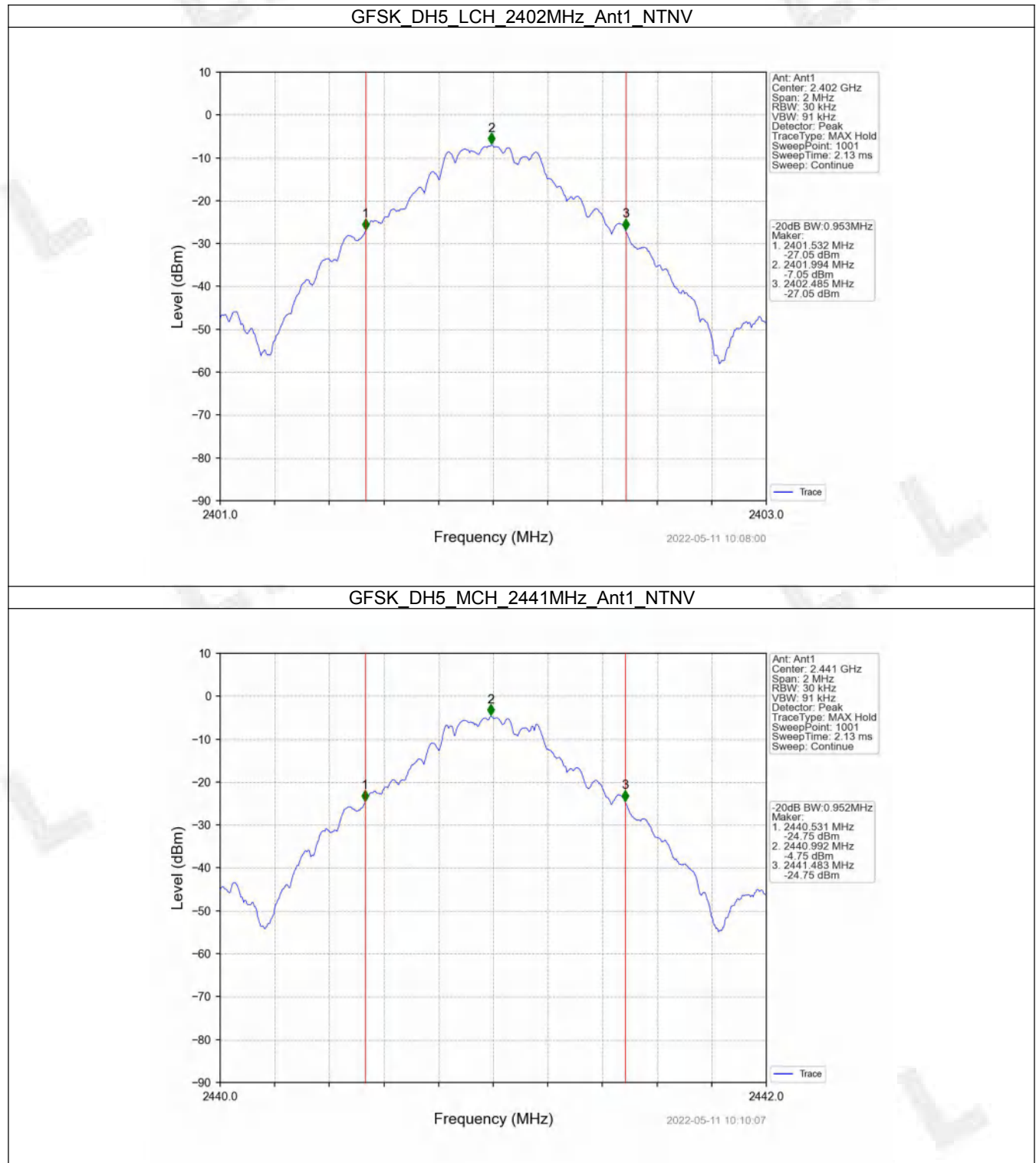


1.2 20dB BW

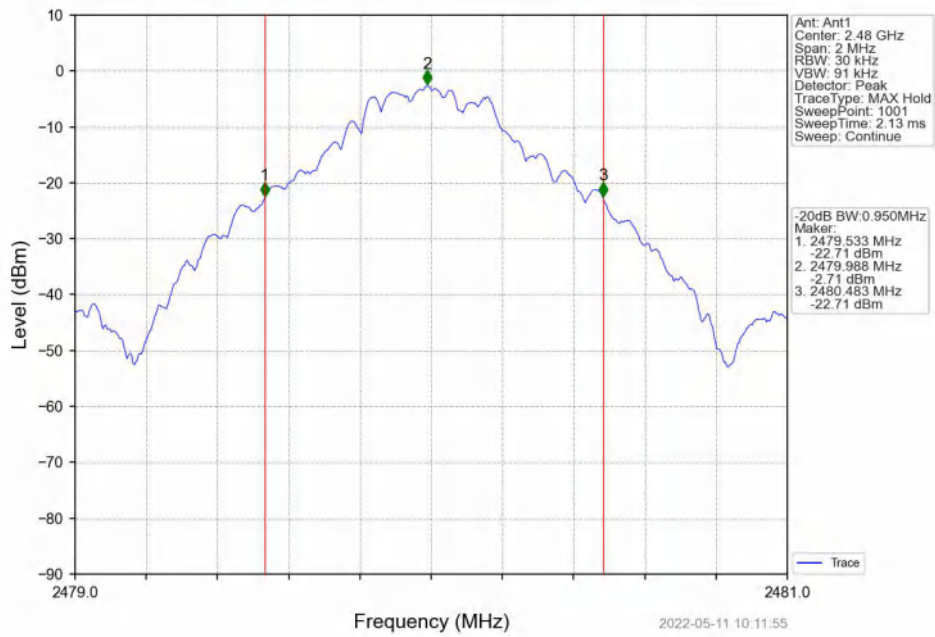
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.953	Pass
		2441	DH5	1	0.952	Pass
		2480	DH5	1	0.950	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.283	Pass
		2441	2DH5	1	1.283	Pass
		2480	2DH5	1	1.284	Pass
8DPSK	SISO	2402	3DH5	1	1.281	Pass
		2441	3DH5	1	1.283	Pass
		2480	3DH5	1	1.282	Pass

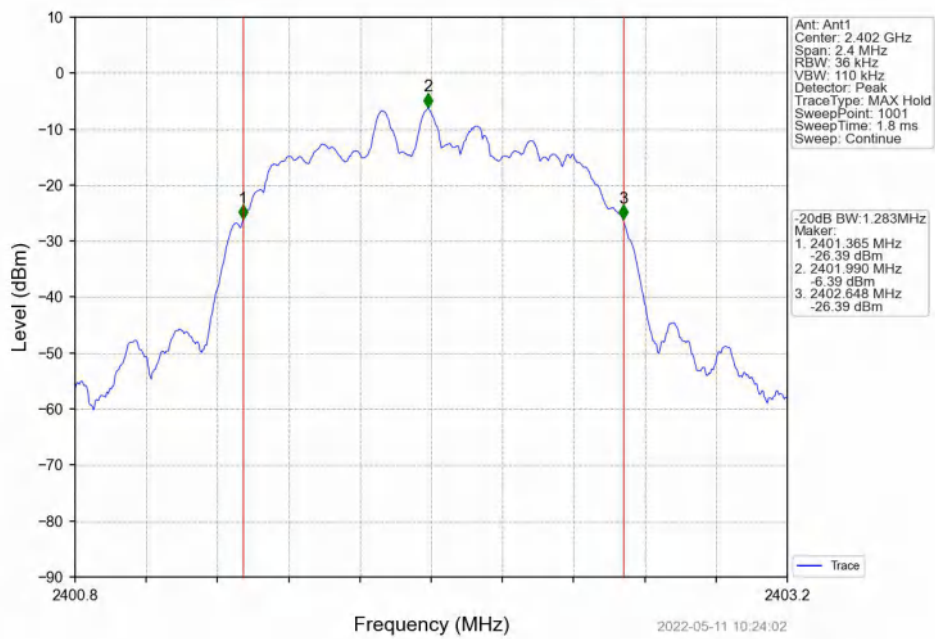
1.2.2 Test Graph



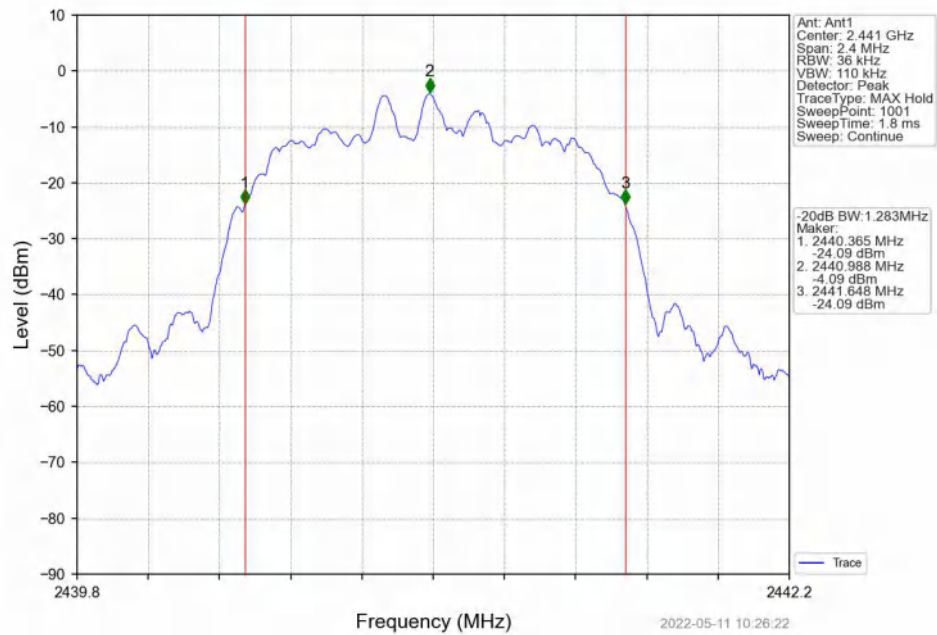
GFSK DH5_HCH_2480MHz_Ant1_NTNV



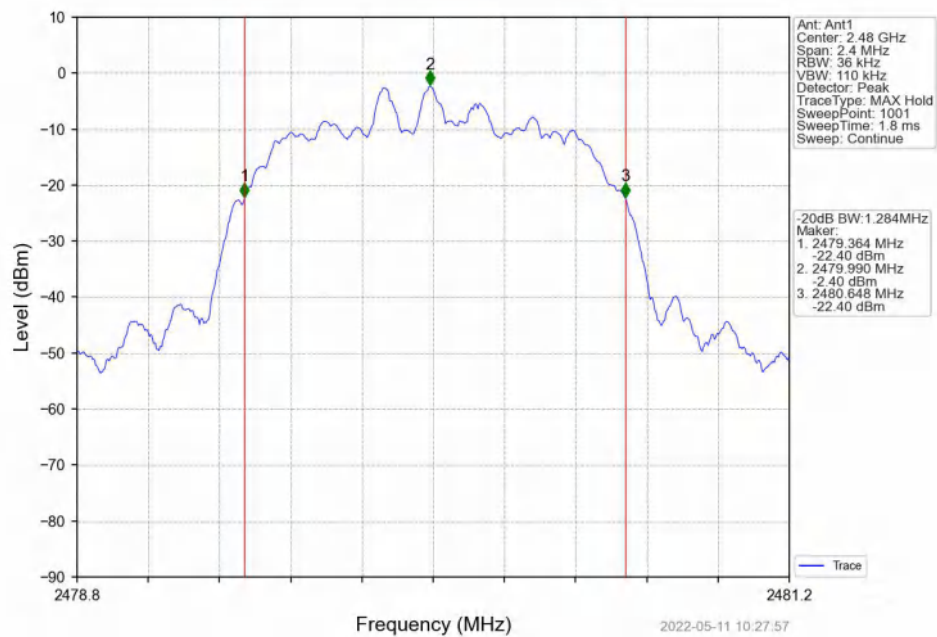
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



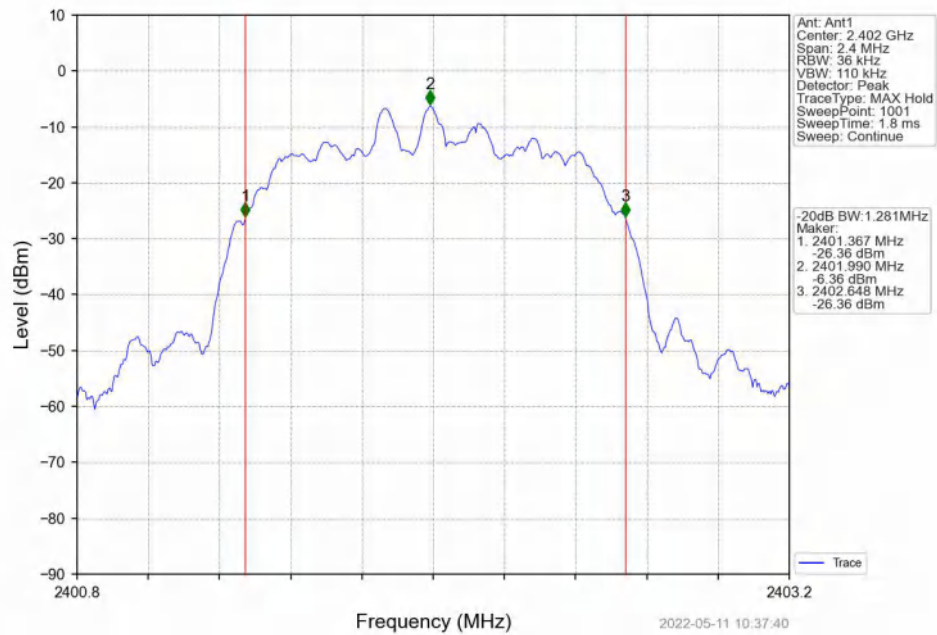
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



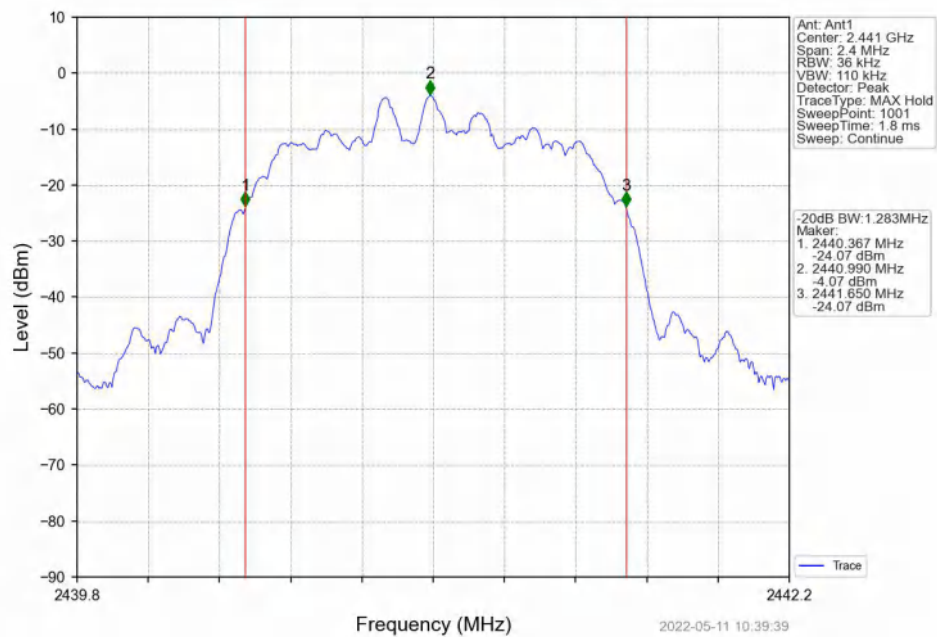
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

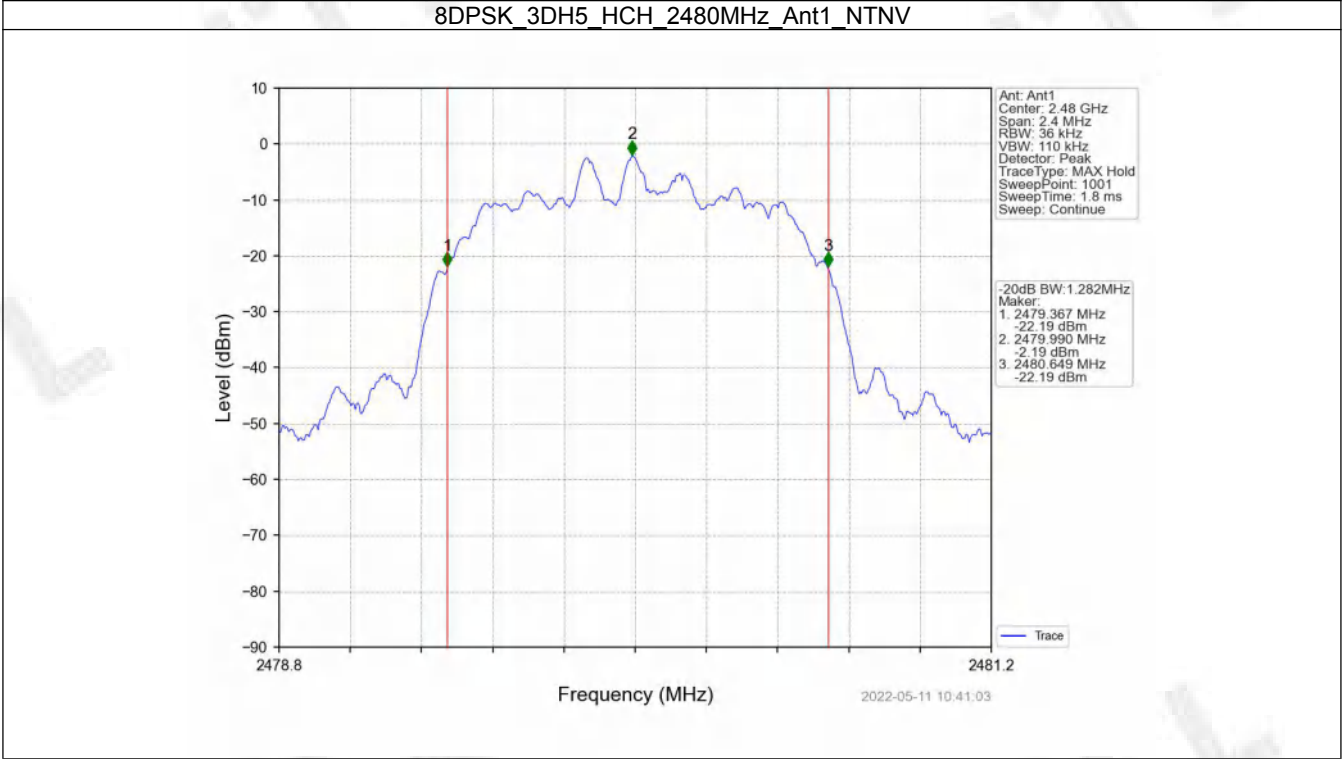


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





2. Maximum Conducted Output Power

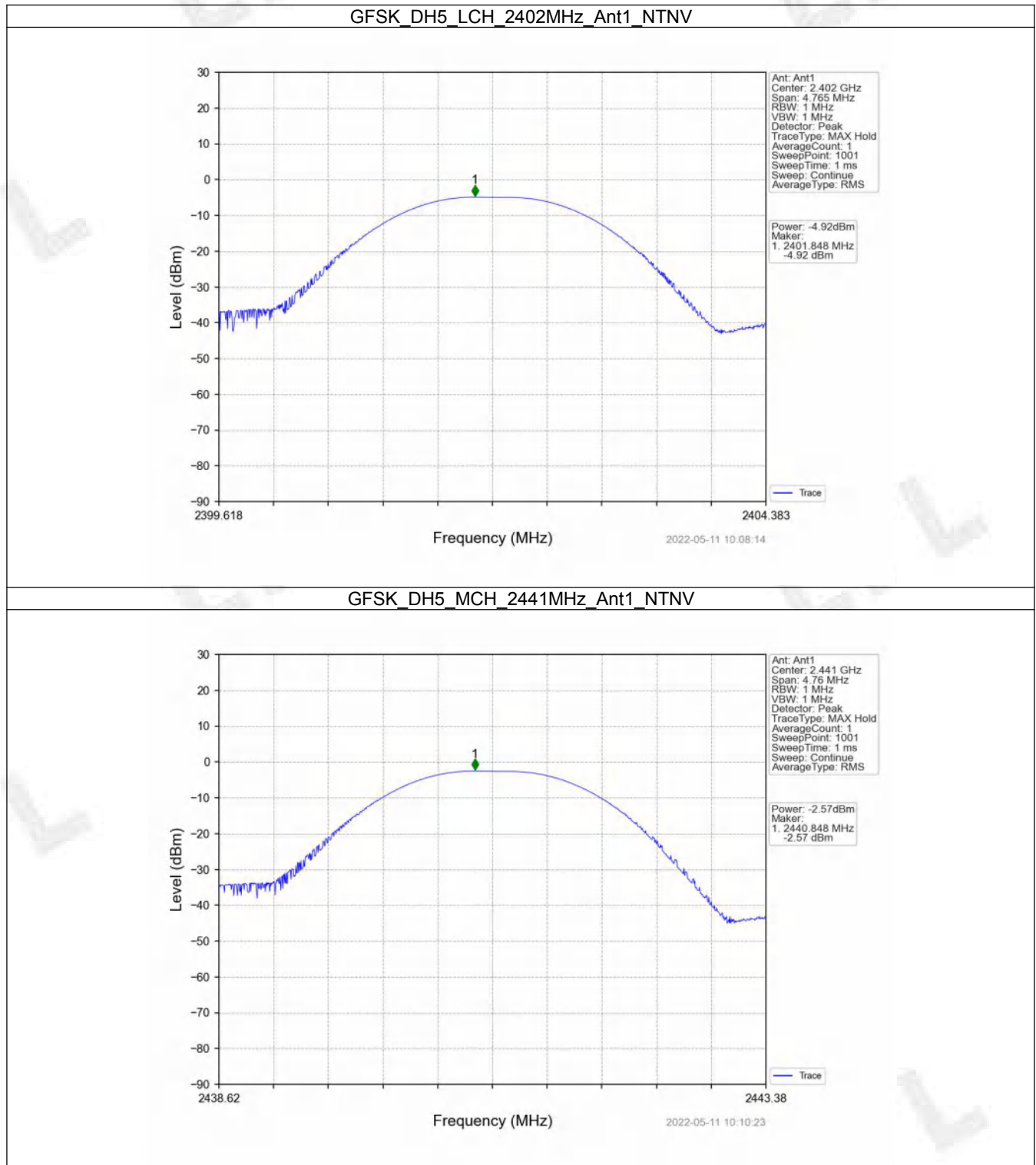
2.1 Power

2.1.1 Test Result

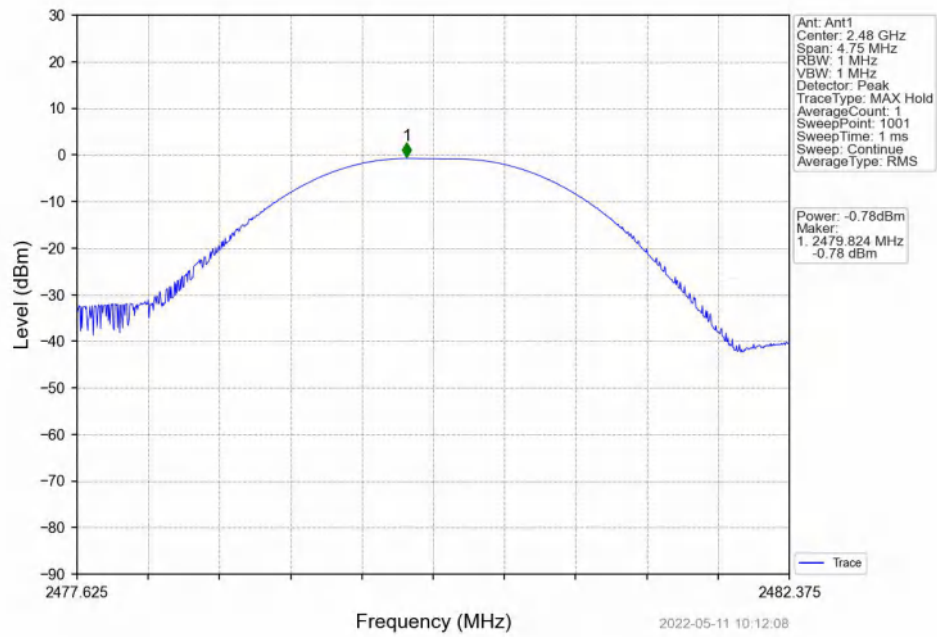
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-4.92	<=30	Pass
		2441	DH5	-2.57	<=30	Pass
		2480	DH5	-0.78	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-3.98	<=20.97	Pass
		2441	2DH5	-1.63	<=20.97	Pass
		2480	2DH5	0.12	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-3.95	<=20.97	Pass
		2441	3DH5	-1.59	<=20.97	Pass
		2480	3DH5	0.20	<=20.97	Pass

Note1: Antenna Gain: Ant1: 1.75dBi;

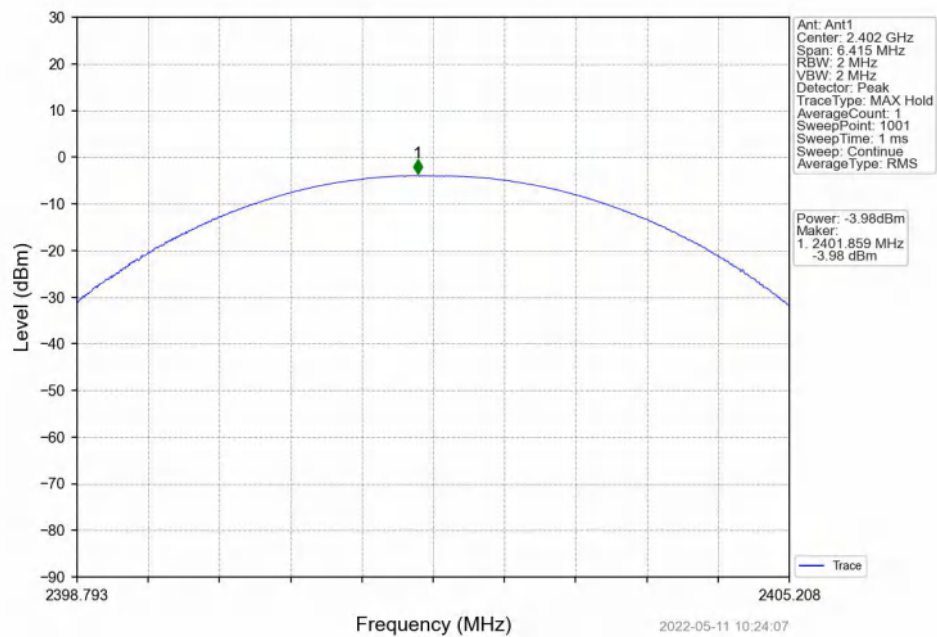
2.1.2 Test Graph



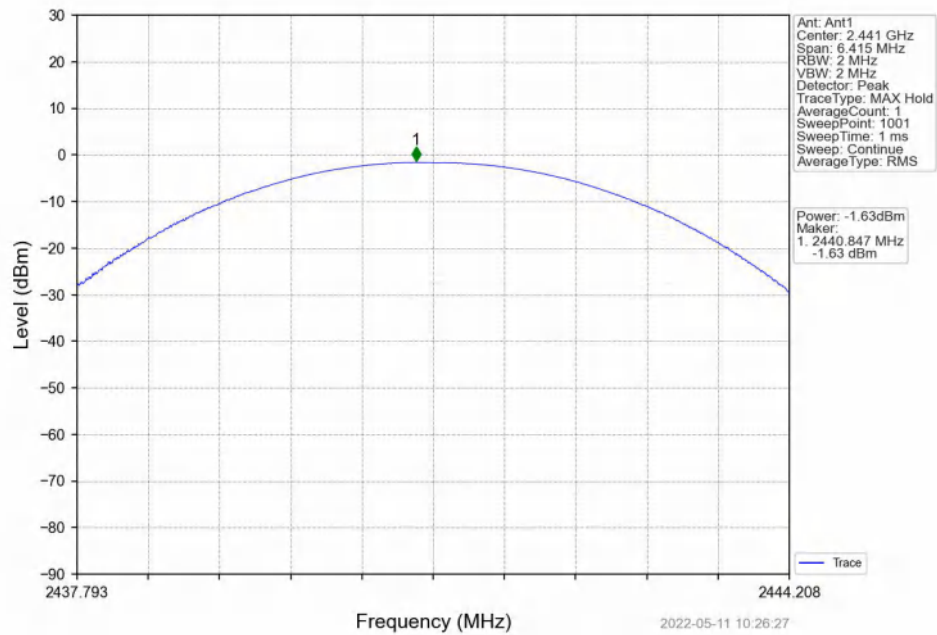
GFSK DH5_HCH_2480MHz_Ant1_NTNV



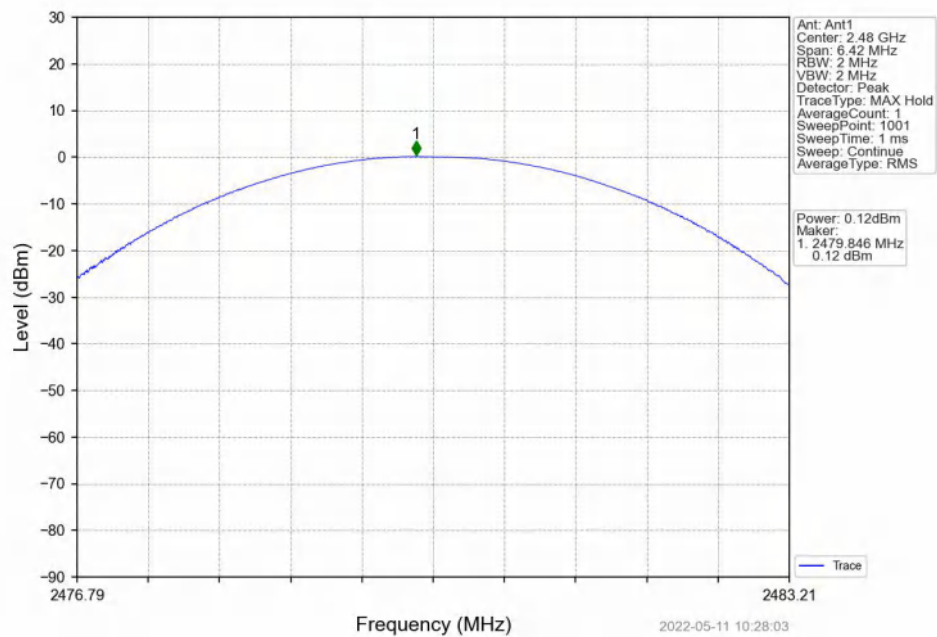
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



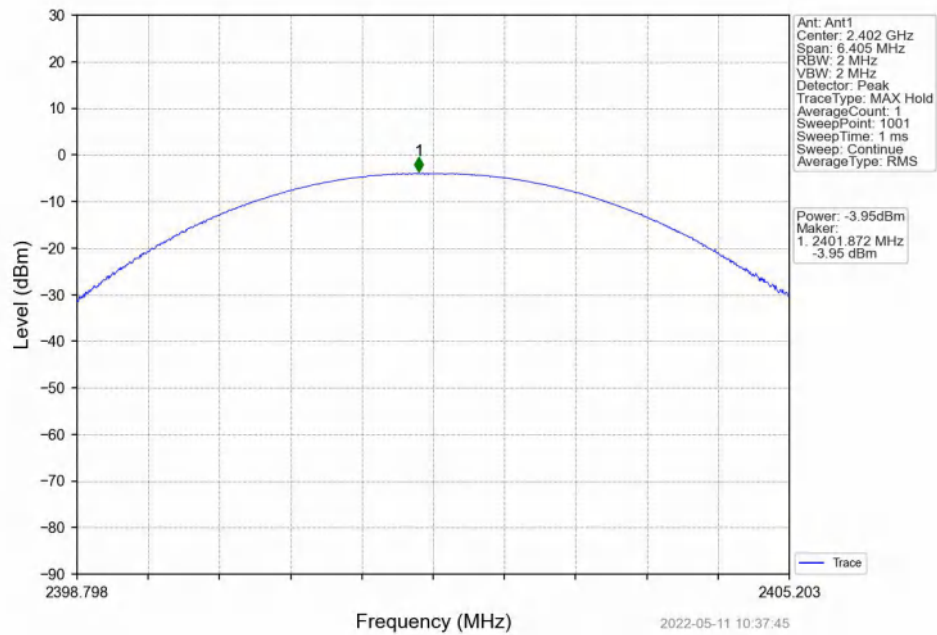
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



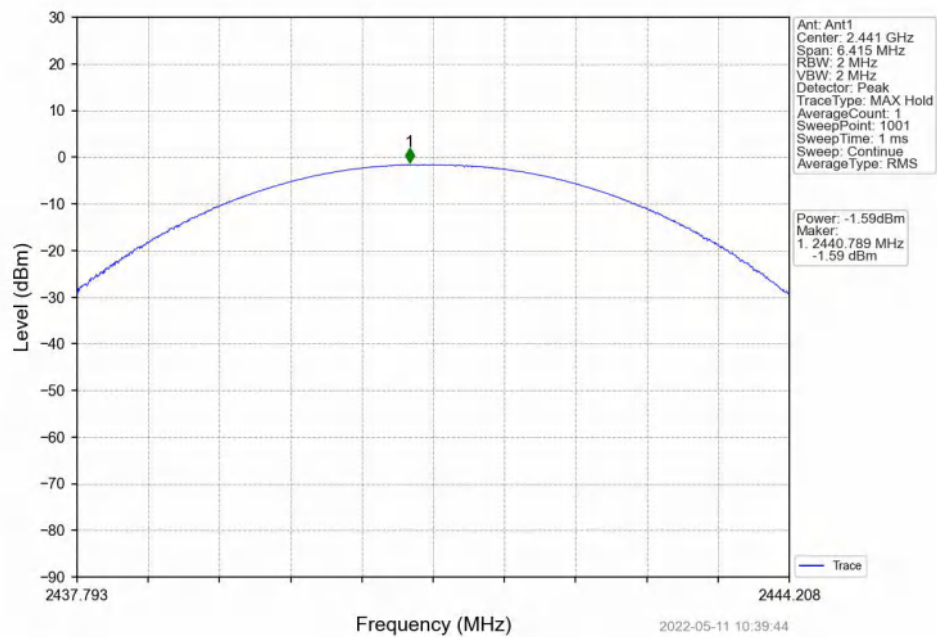
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



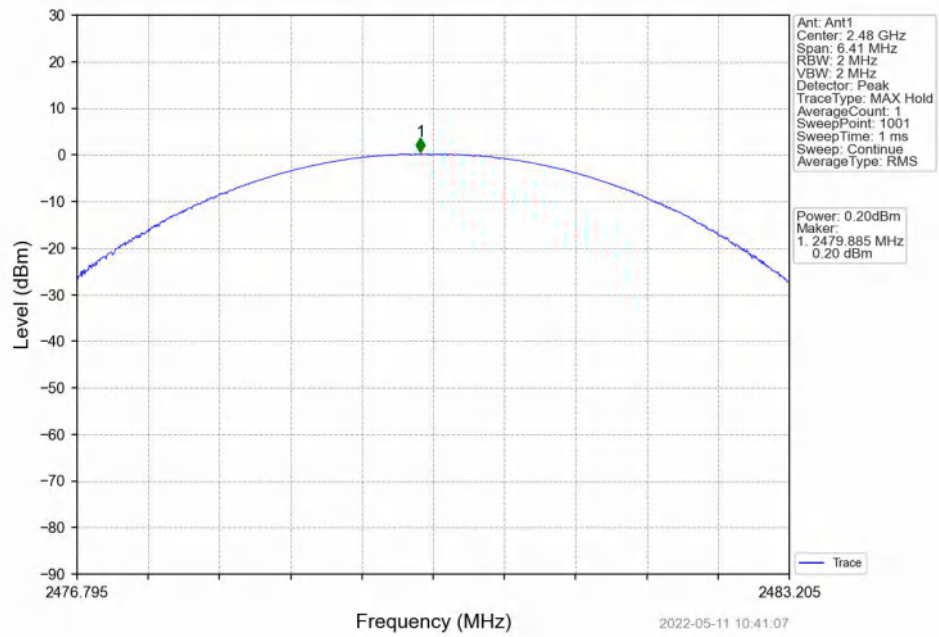
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



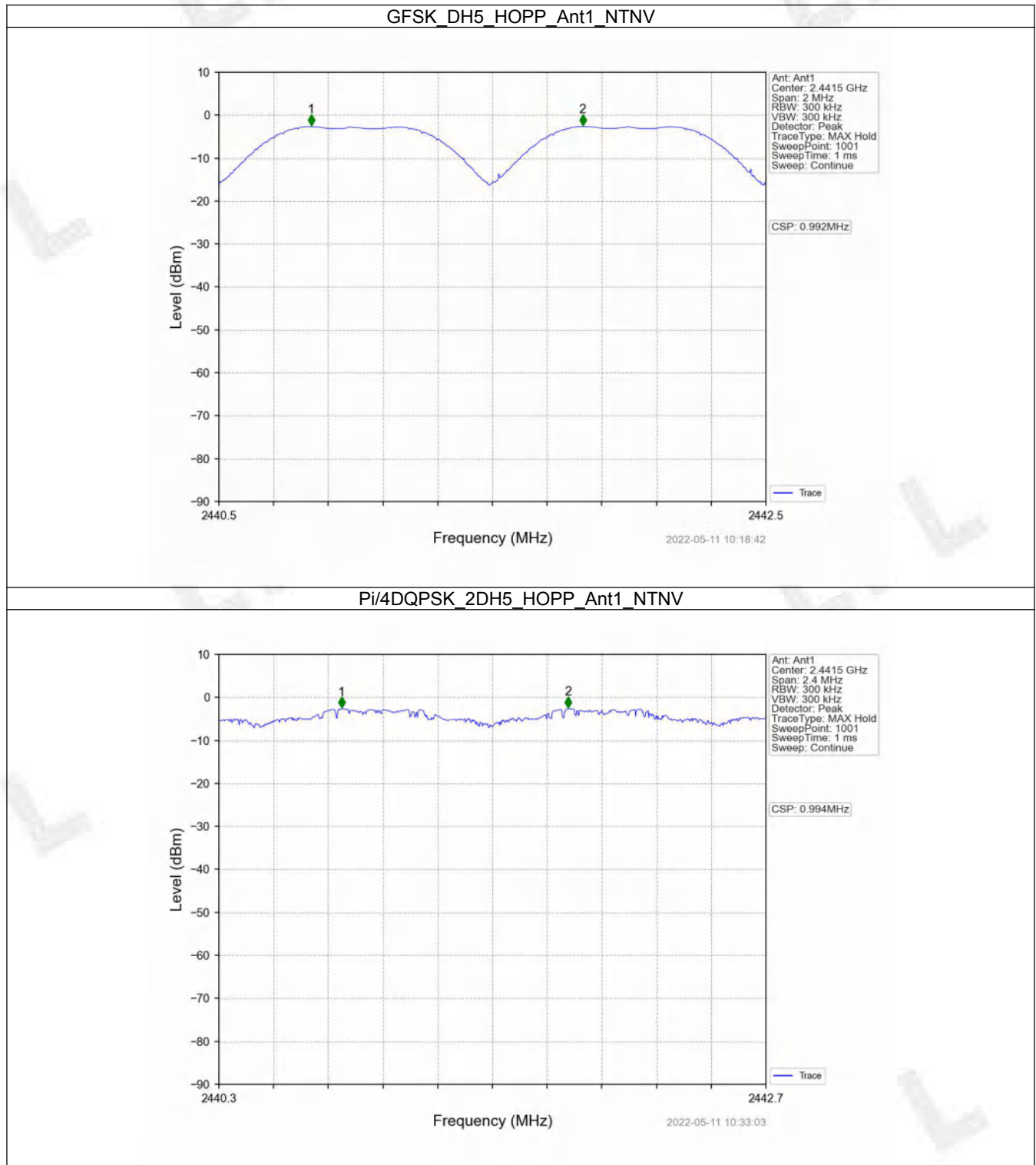
3. Carrier Frequency Separation

3.1 Ant1

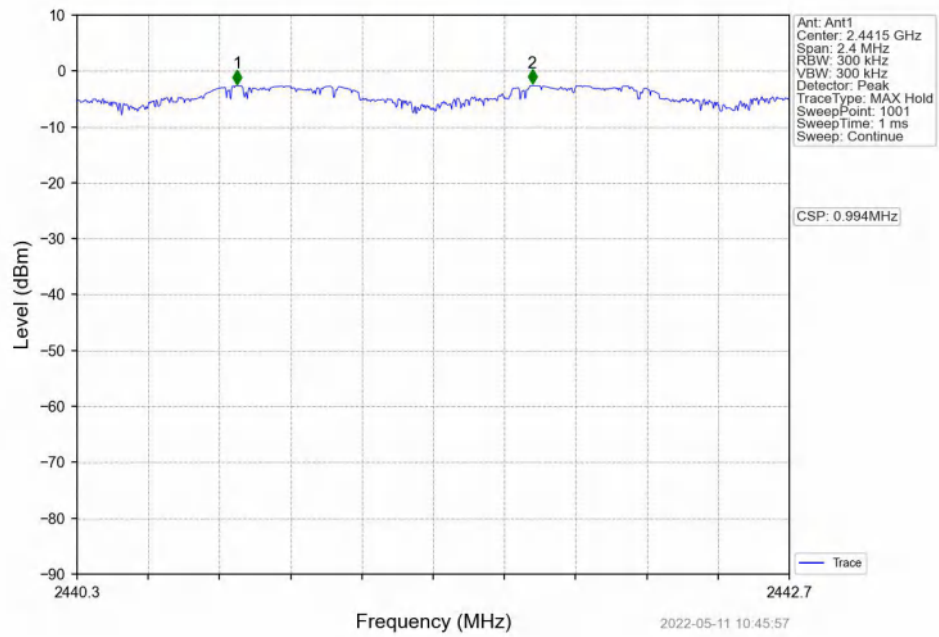
3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.992	0.953	≥ 0.953	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.994	1.284	≥ 0.856	Pass
8DPSK	SISO	HOPP	3DH5	0.994	1.283	≥ 0.855	Pass

3.1.2 Test Graph



8DPSK_3DH5_HOPP_Ant1_NTNV



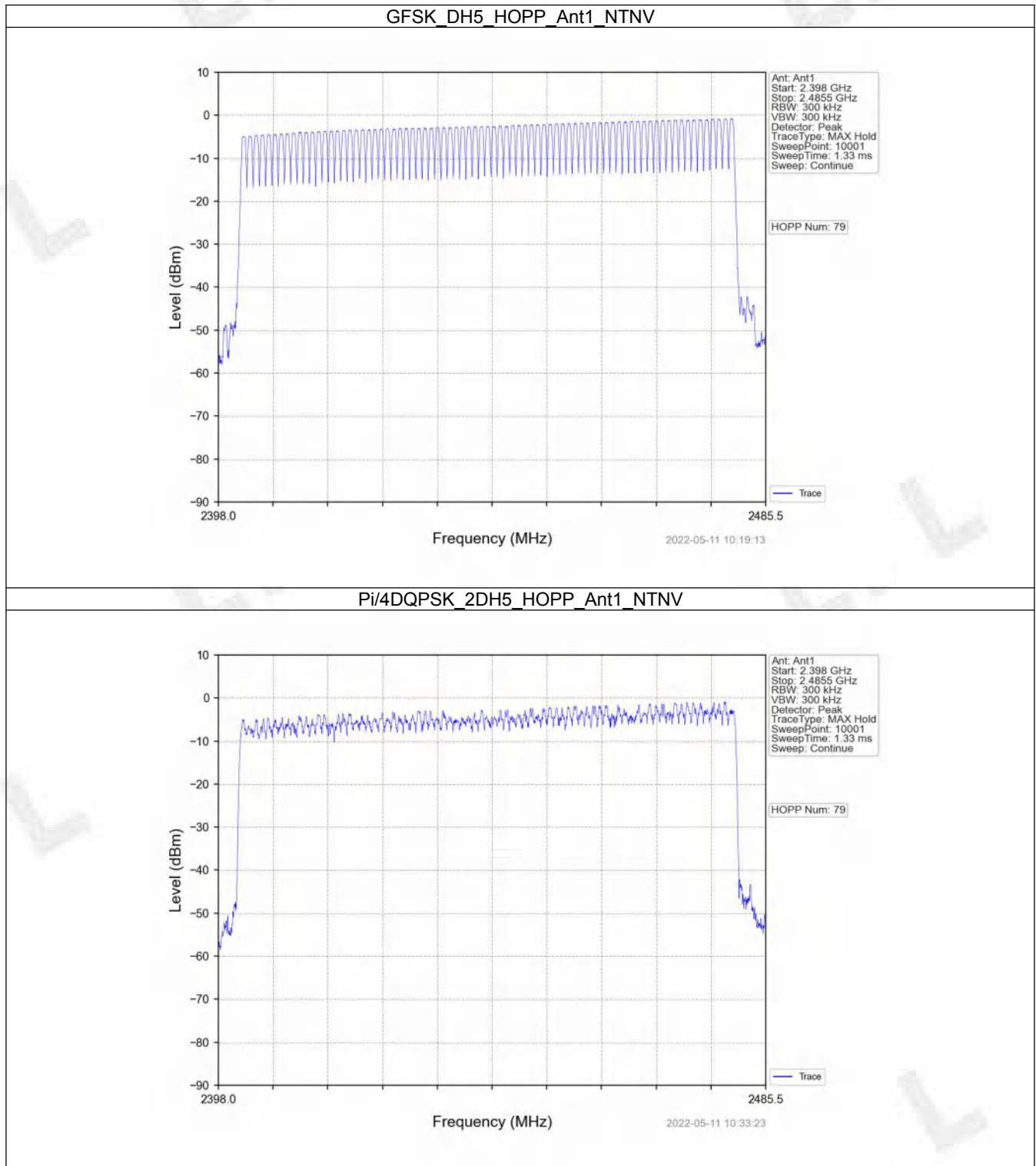
4. Number of Hopping Frequencies

4.1 HoppNum

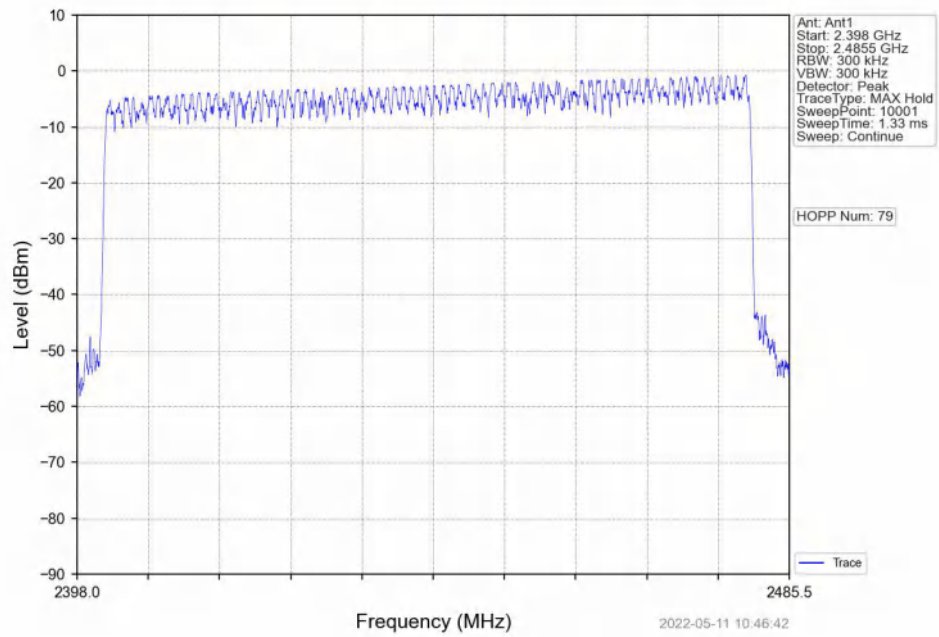
4.1.1 Test Result

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



8DPSK_3DH5_HOPP_Ant1_NTNV



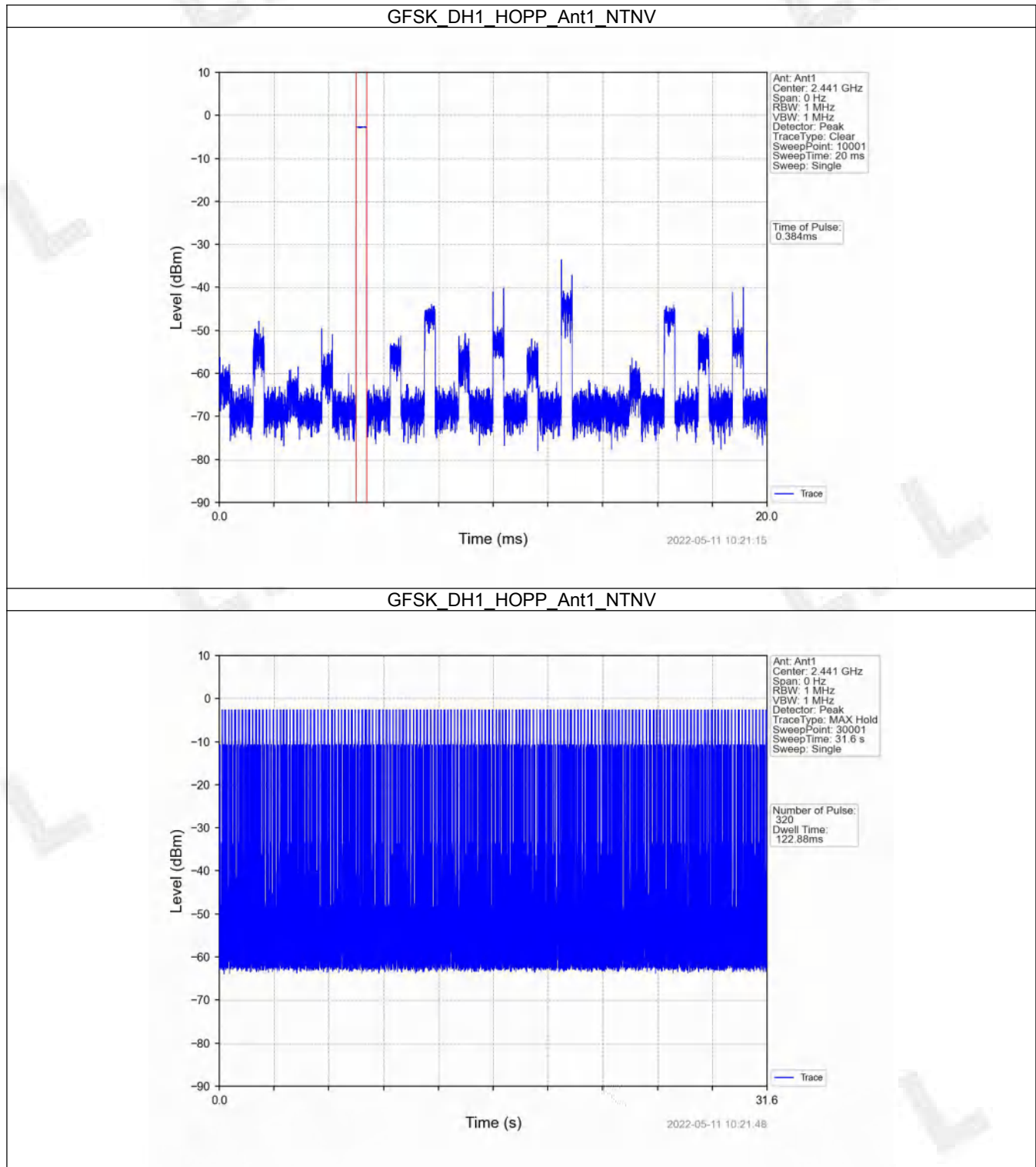
5. Time of Occupancy (Dwell Time)

5.1 Ant1

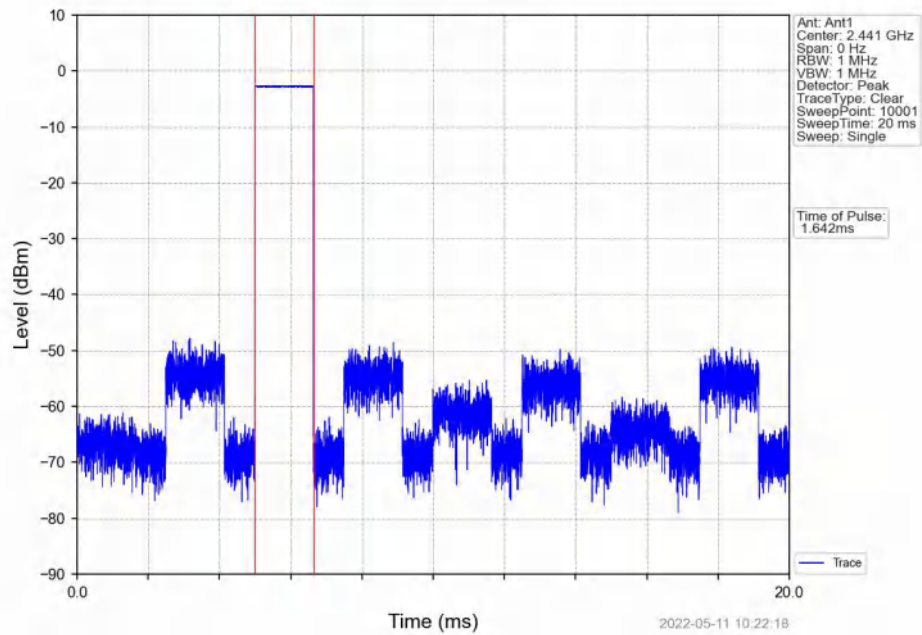
5.1.1 Test Result

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	320	122.880	<=400	Pass
			DH3	1.642	31.600	154	252.868	<=400	Pass
			DH5	2.890	31.600	103	297.670	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	321	127.116	<=400	Pass
			2DH3	1.648	31.600	169	278.512	<=400	Pass
			2DH5	2.902	31.600	100	290.200	<=400	Pass
8DPSK	SISO	HOPP	3DH1	6.674	31.600	46	307.004	<=400	Pass
			3DH3	0.658	31.600	163	107.254	<=400	Pass
			3DH5	0.902	31.600	101	91.102	<=400	Pass

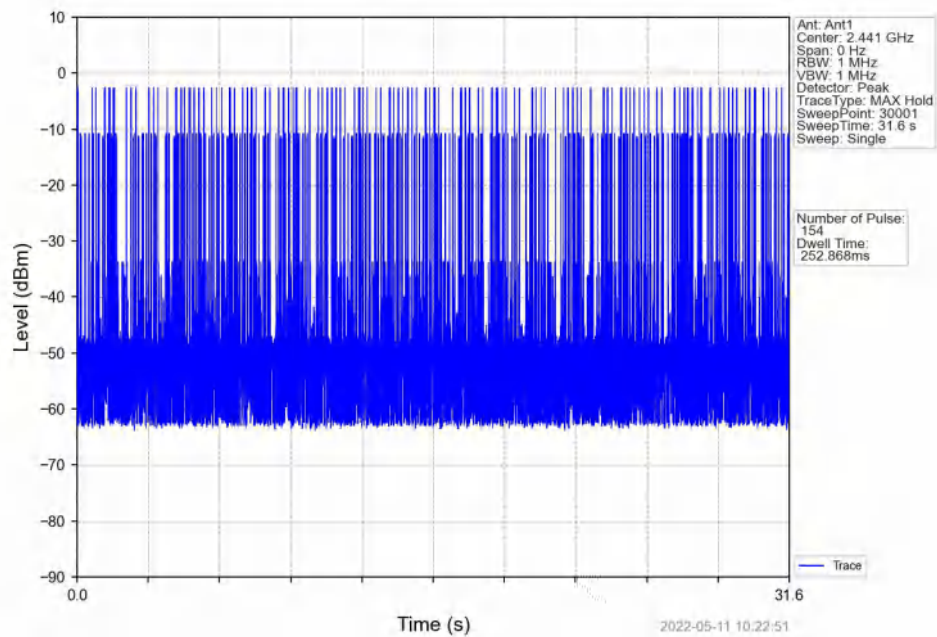
5.1.2 Test Graph



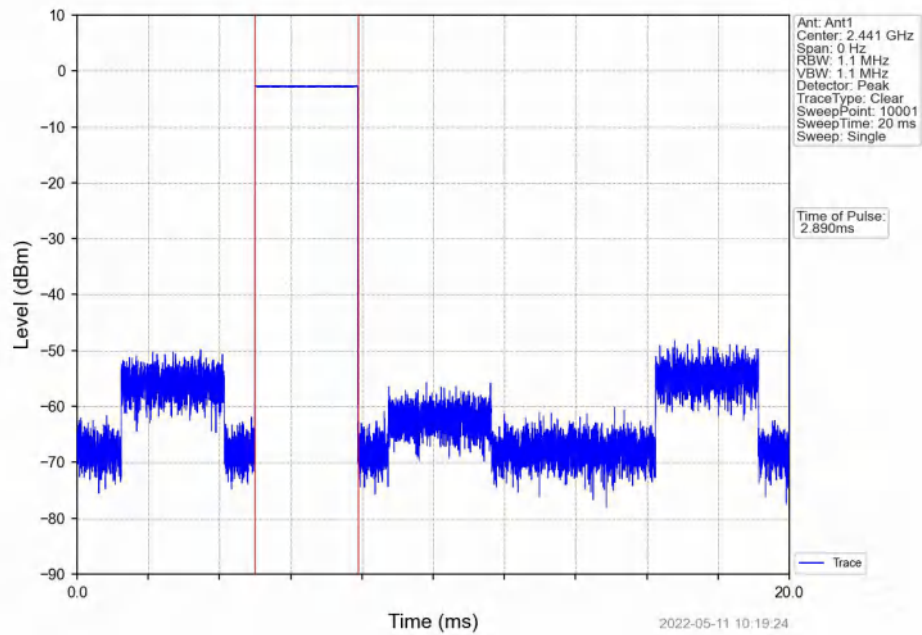
GFSK_DH3_HOPP_Ant1_NTNV



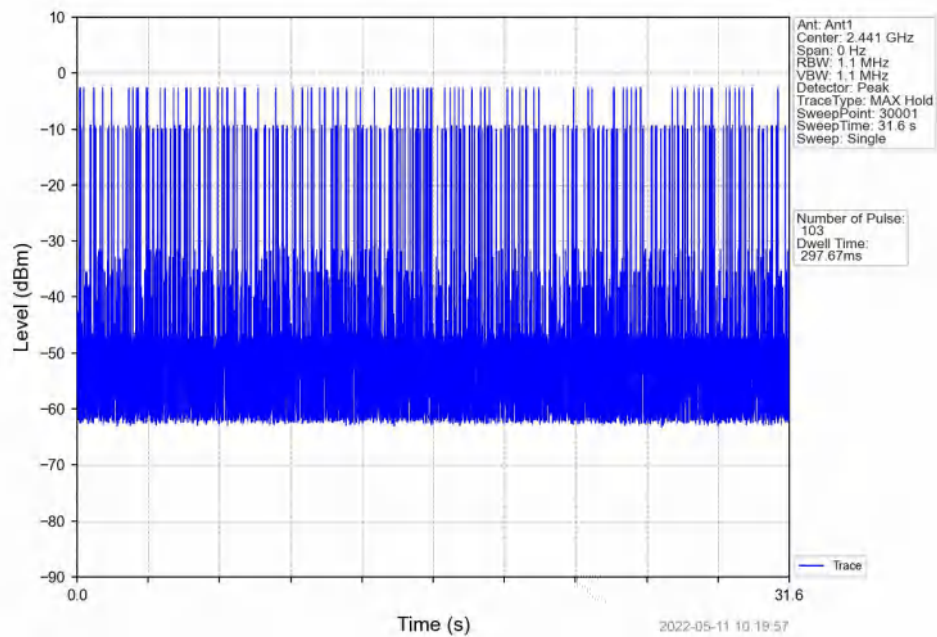
GFSK_DH3_HOPP_Ant1_NTNV



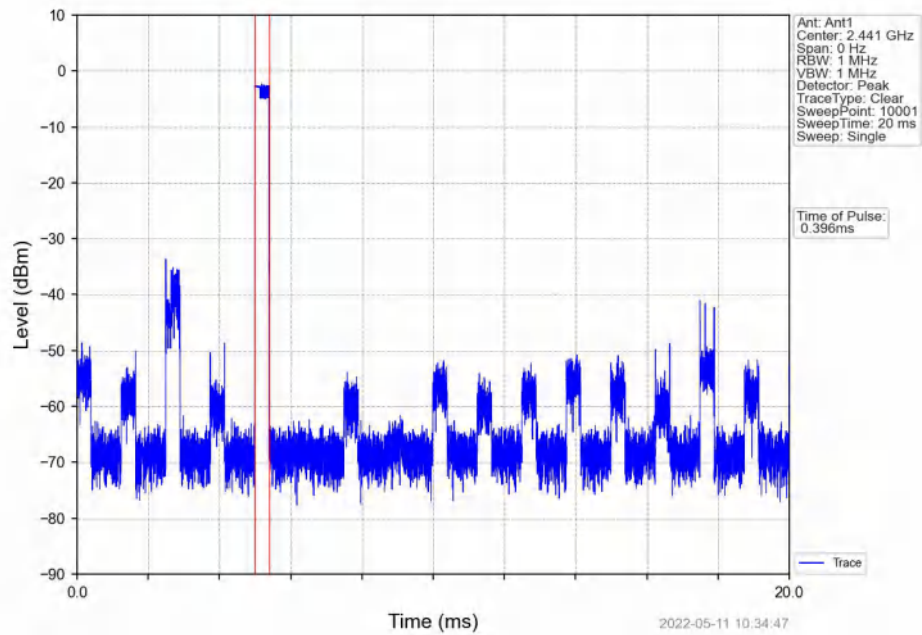
GFSK_DH5_HOPP_Ant1_NTNV



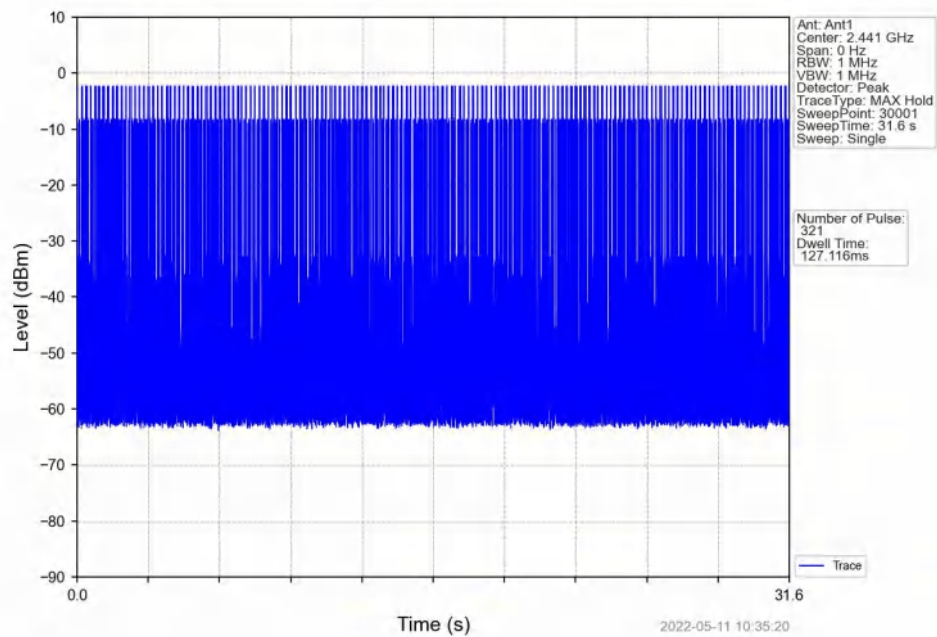
GFSK_DH5_HOPP_Ant1_NTNV



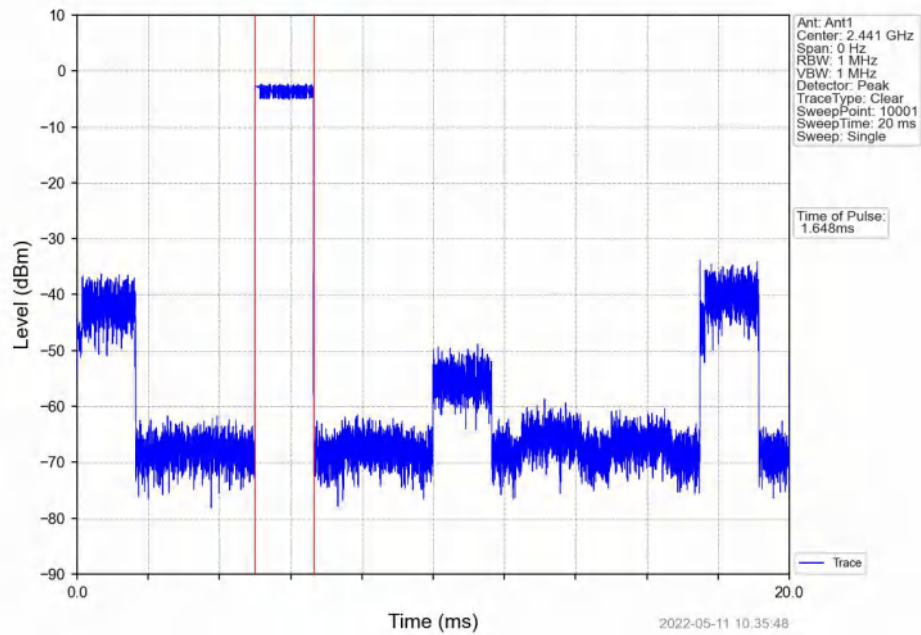
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



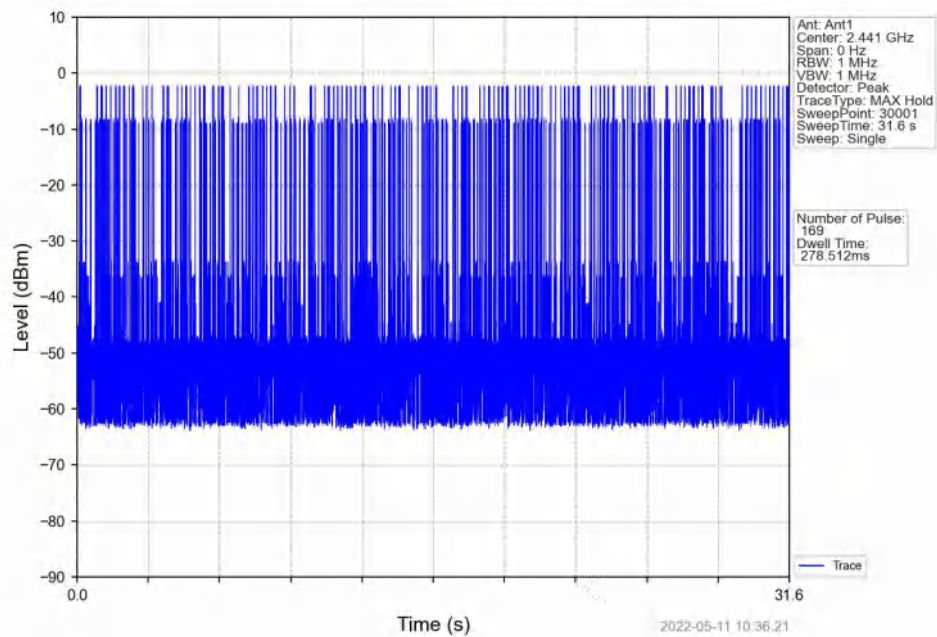
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



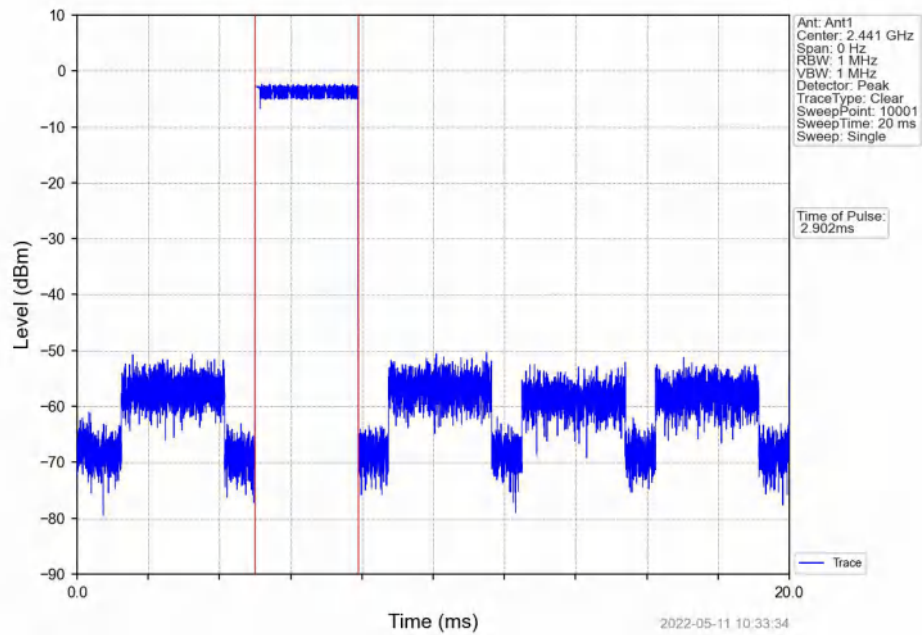
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



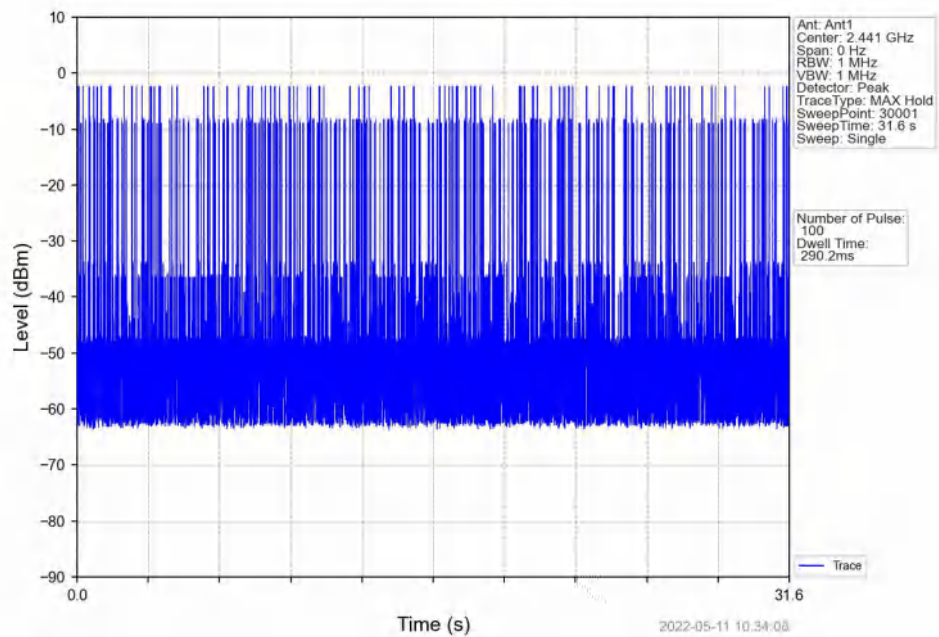
Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



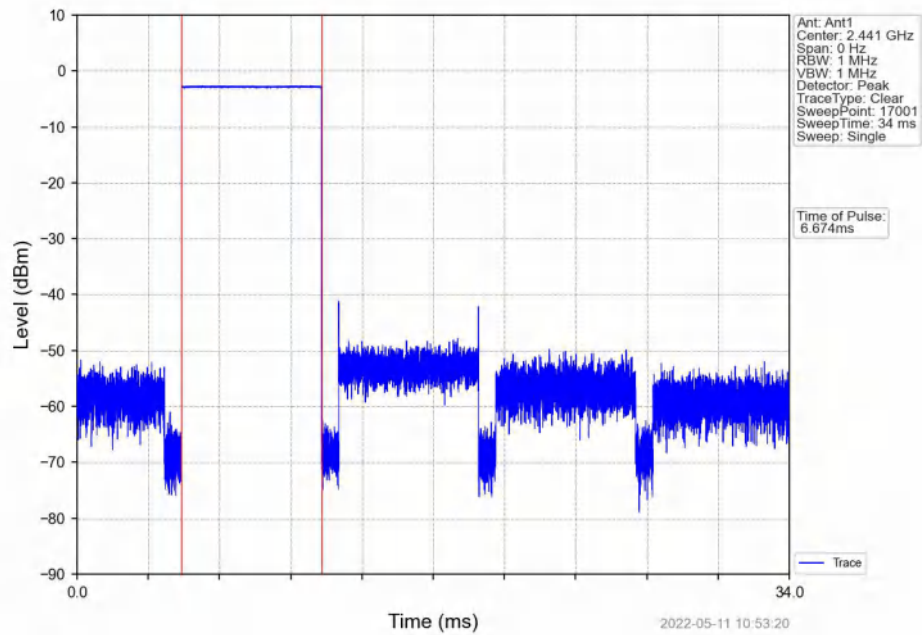
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



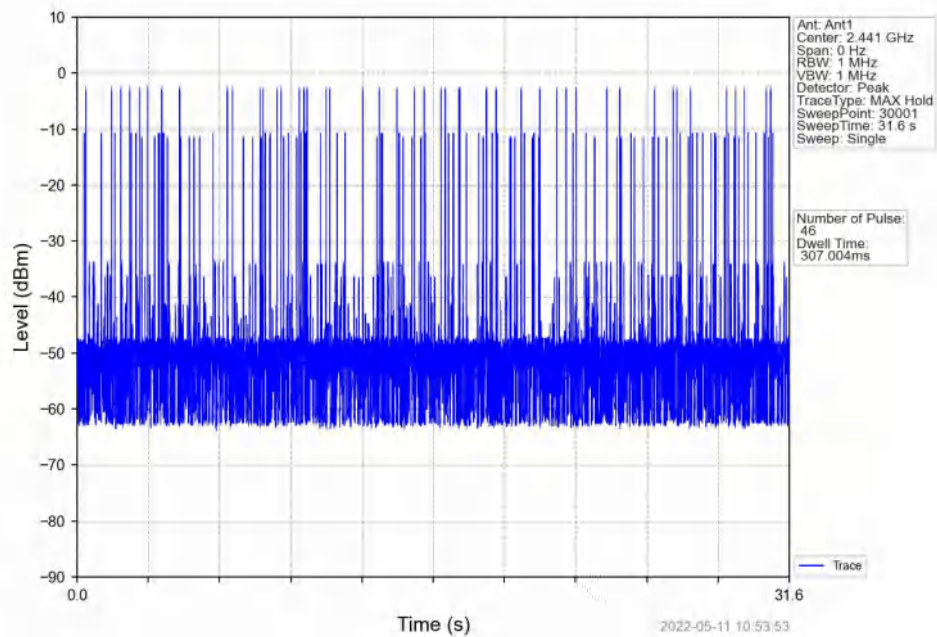
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



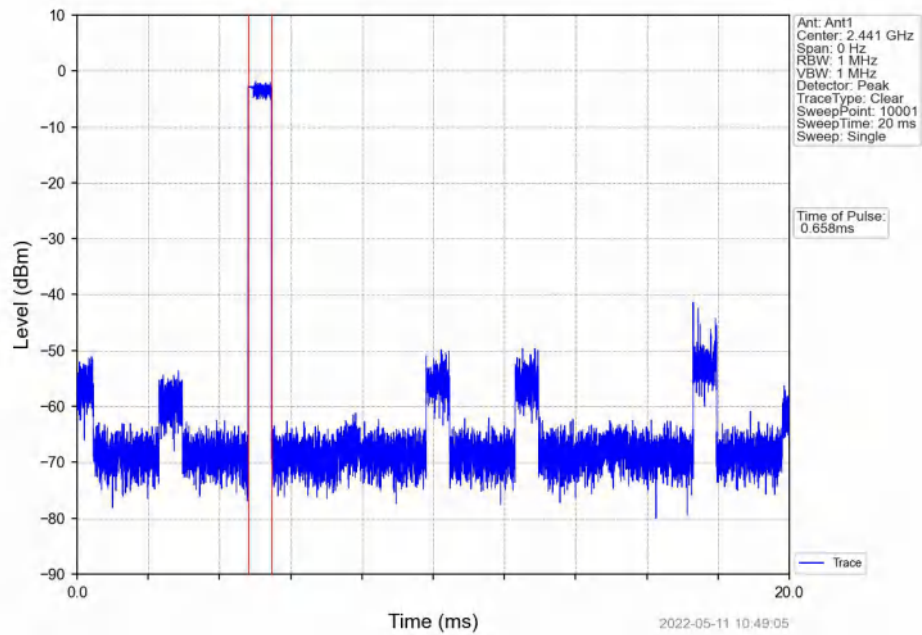
8DPSK_3DH1_HOPP_Ant1_NTNV



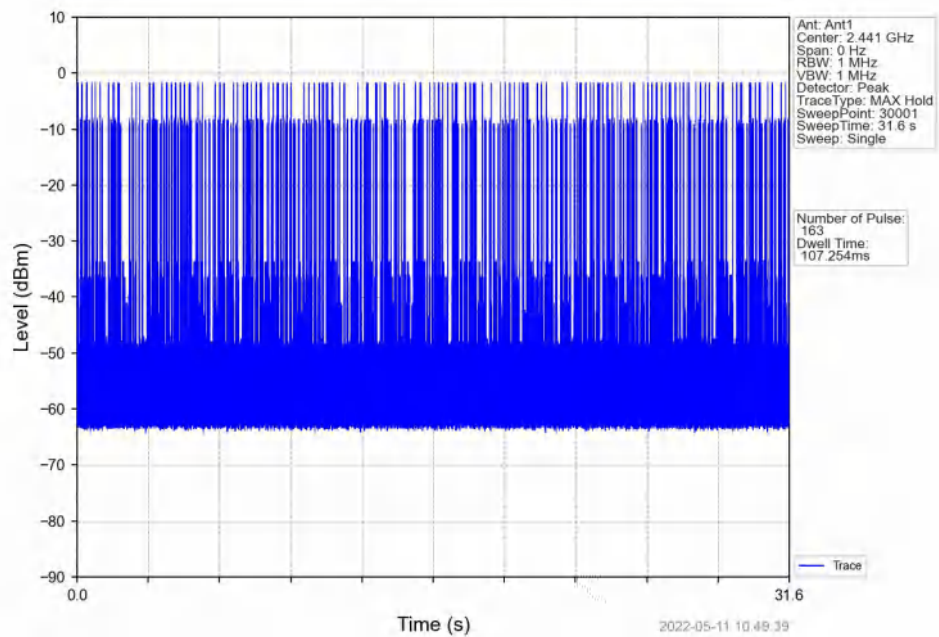
8DPSK_3DH1_HOPP_Ant1_NTNV



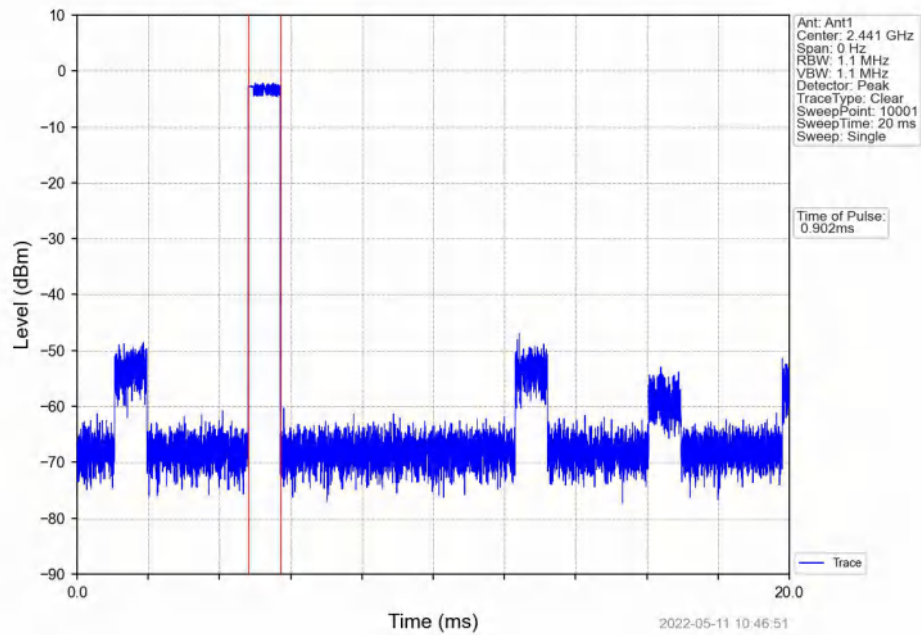
8DPSK_3DH3_HOPP_Ant1_NTNV



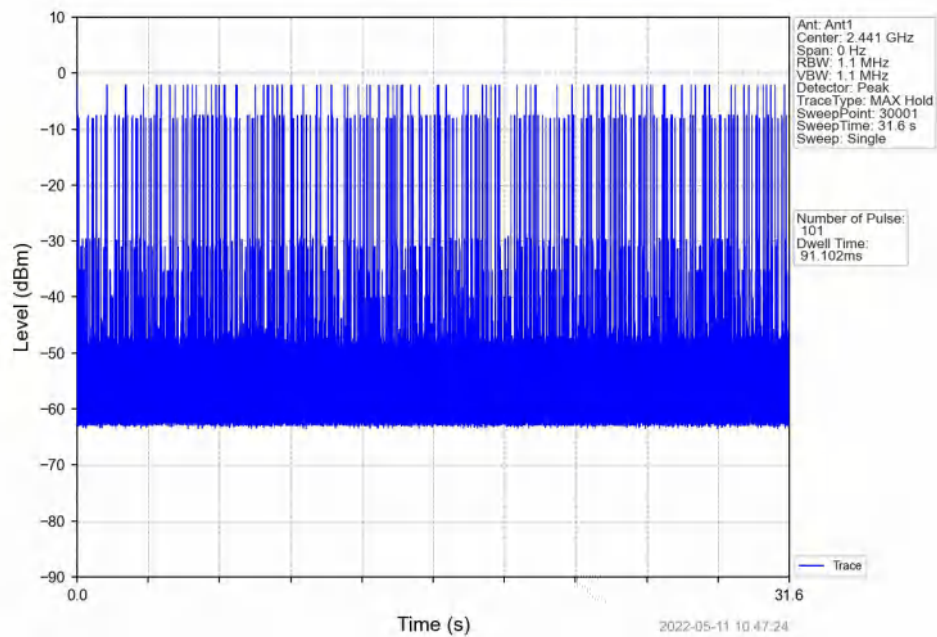
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

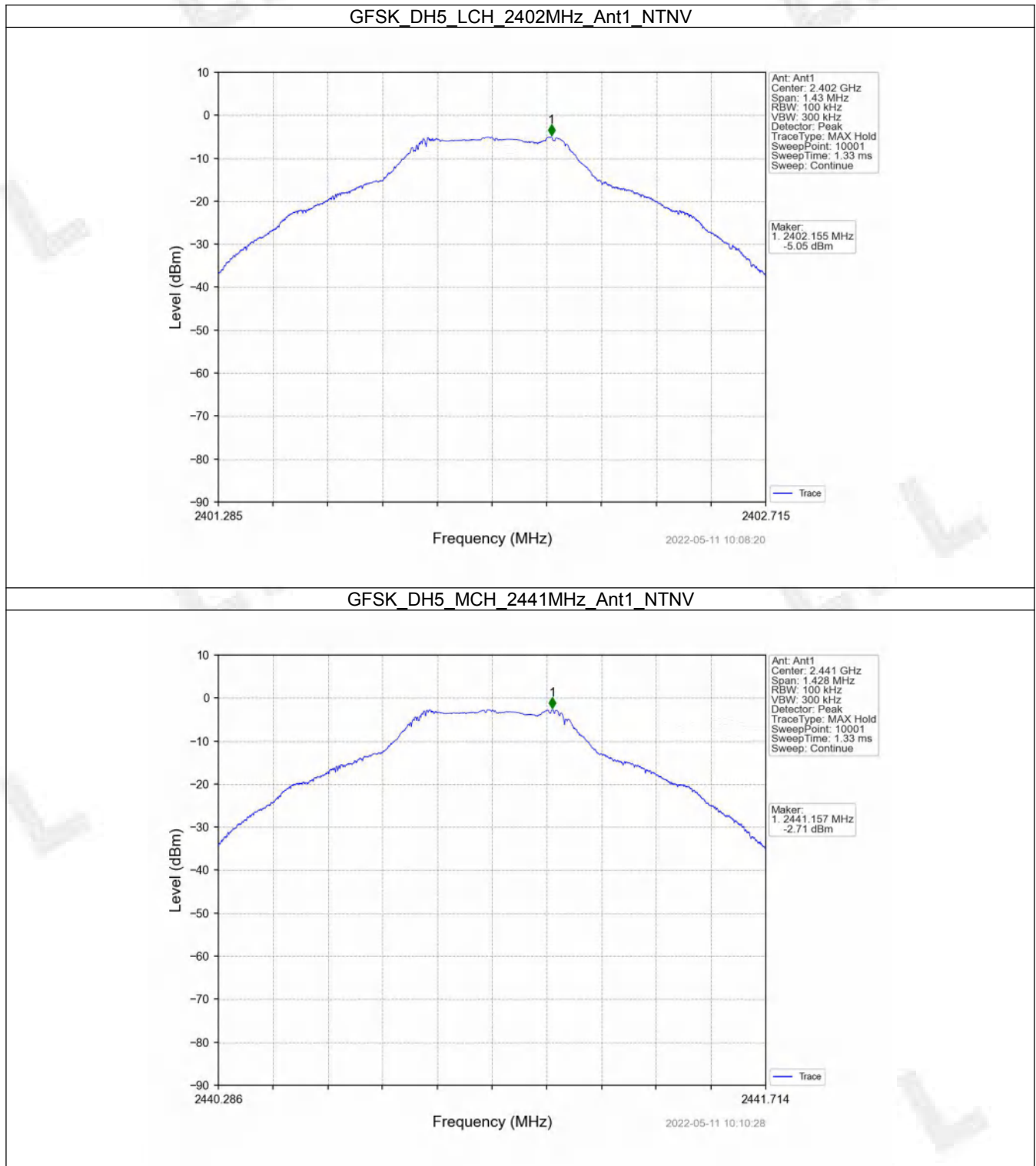
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-5.05
		2441	DH5	1	-2.71
		2480	DH5	1	-0.92
Pi/4DQPSK	SISO	2402	2DH5	1	-4.96
		2441	2DH5	1	-2.68
		2480	2DH5	1	-0.91
8DPSK	SISO	2402	3DH5	1	-4.96
		2441	3DH5	1	-2.53
		2480	3DH5	1	-0.73

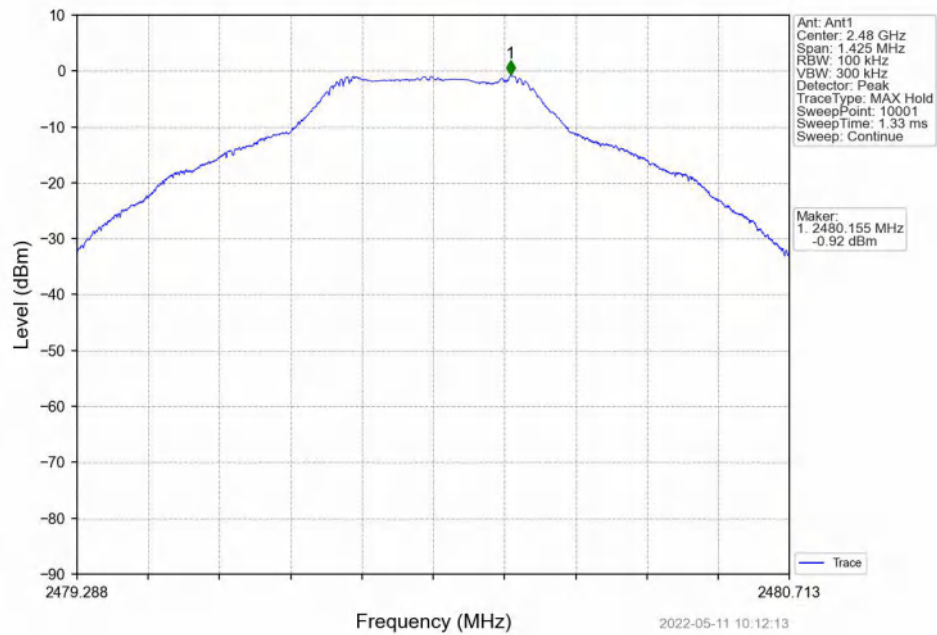
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

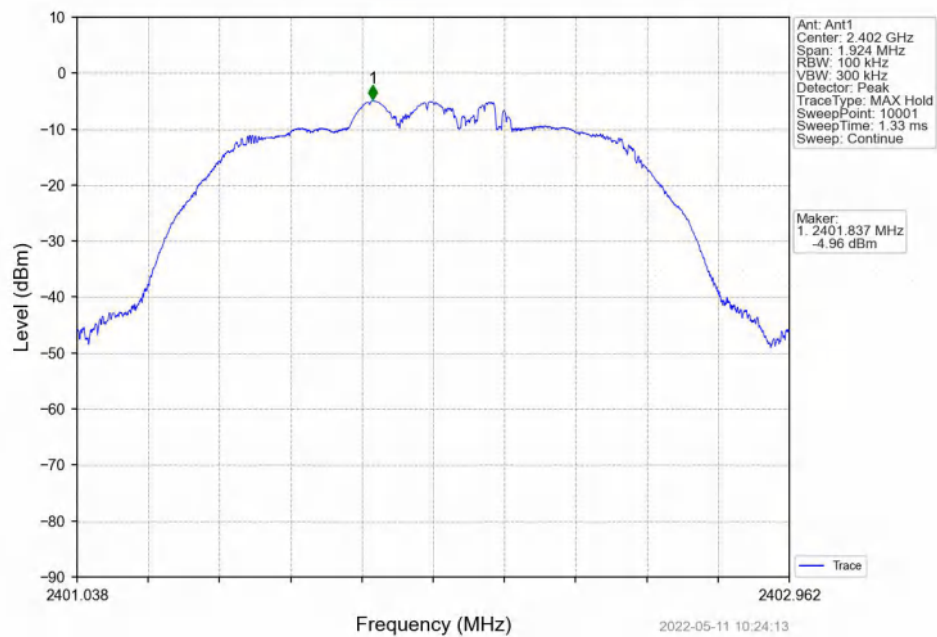
6.1.2 Test Graph



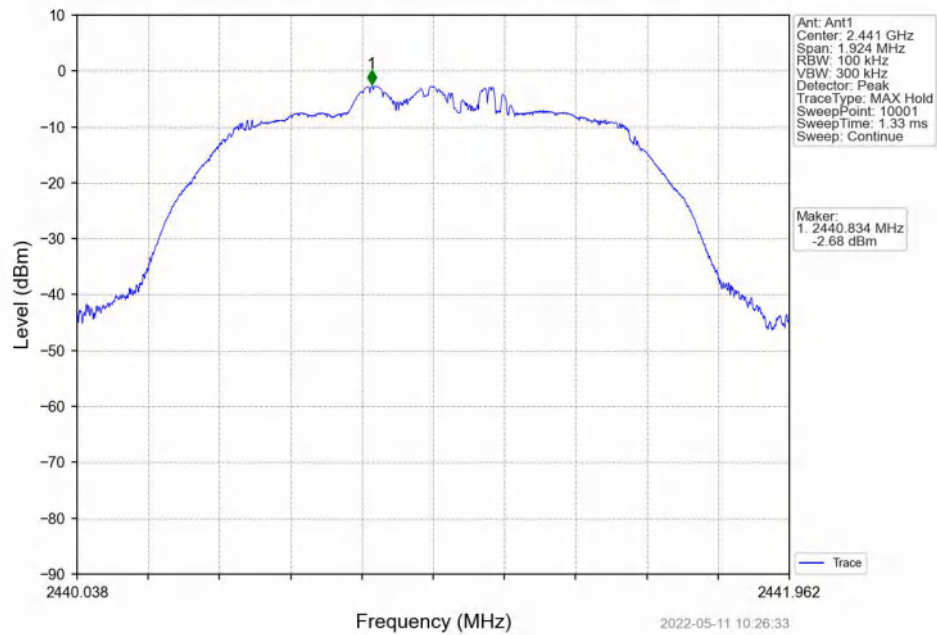
GFSK DH5_HCH_2480MHz_Ant1_NTNV



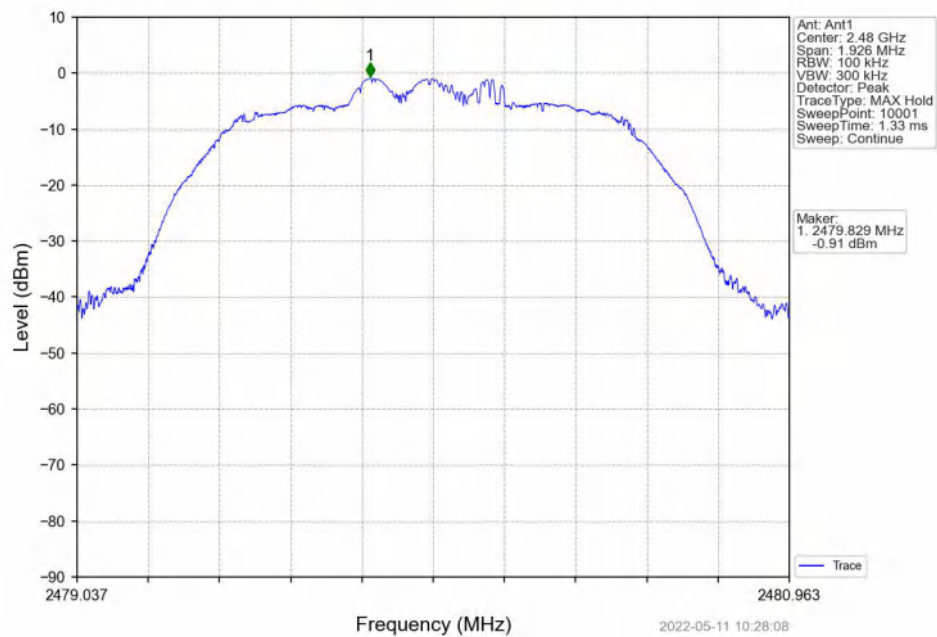
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



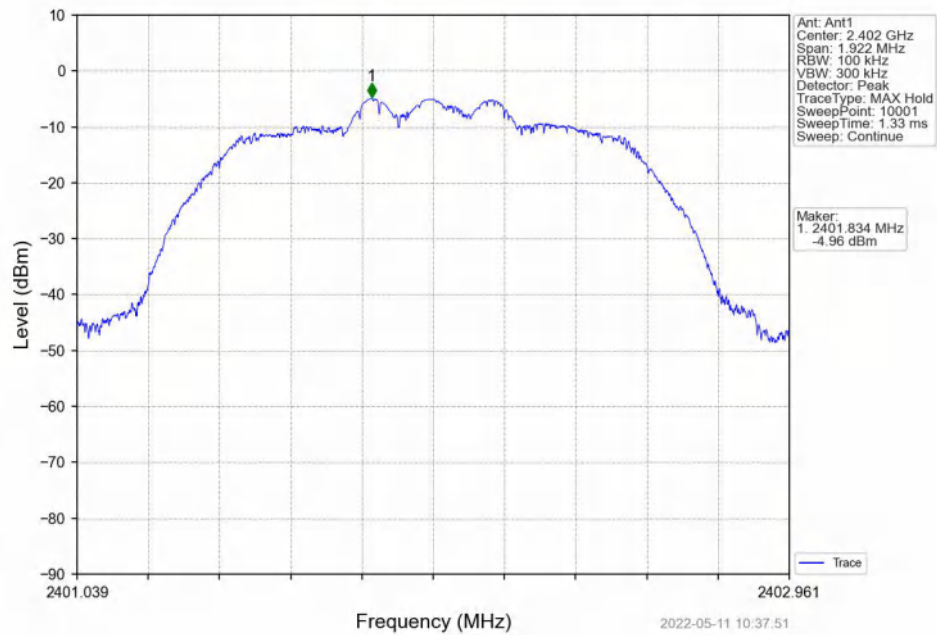
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



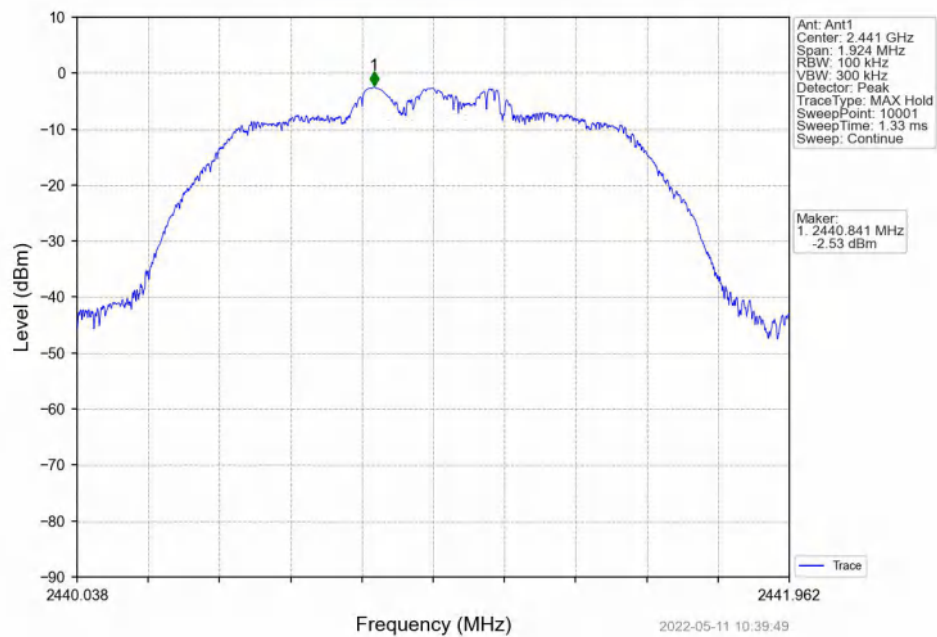
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



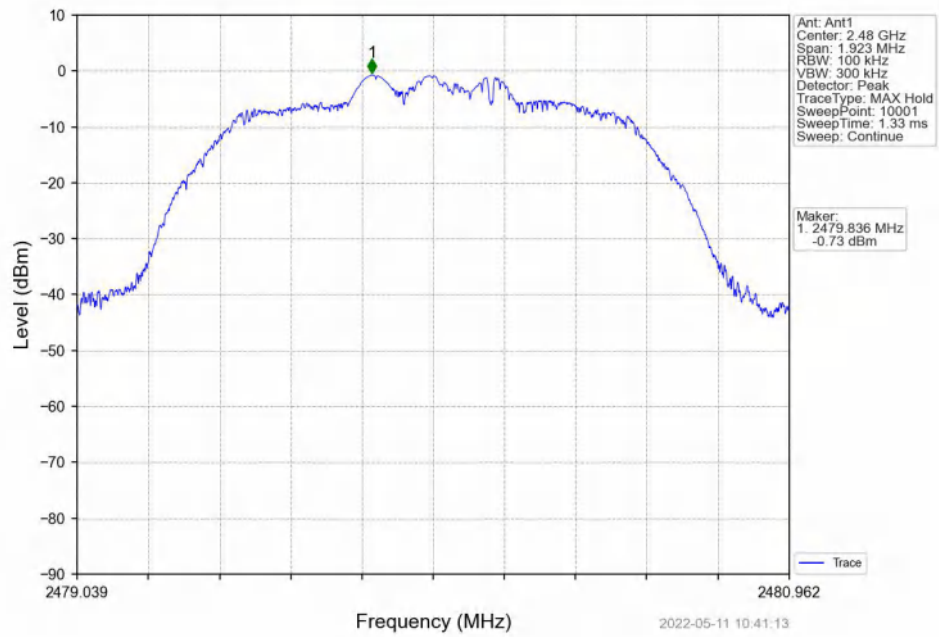
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

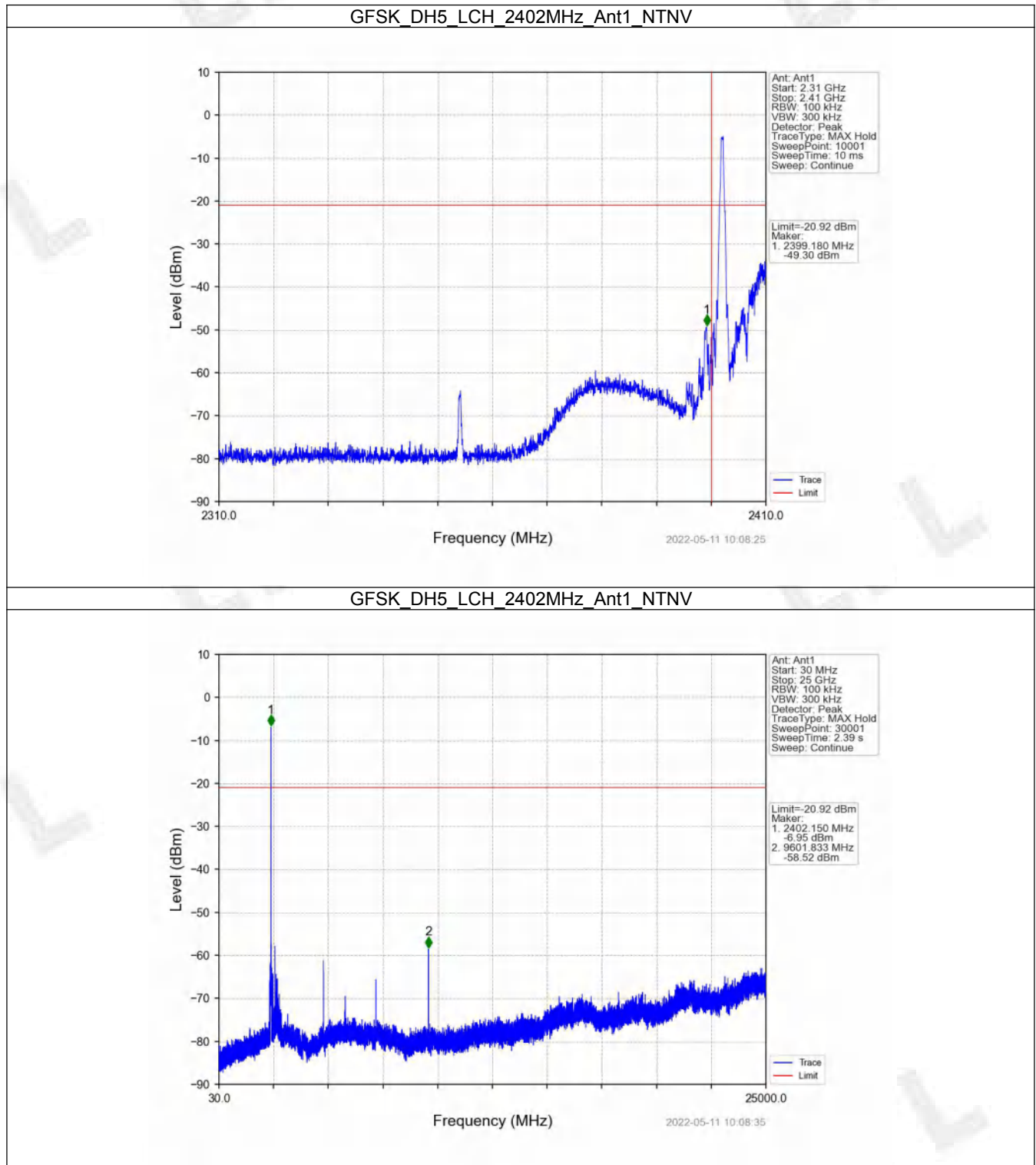


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

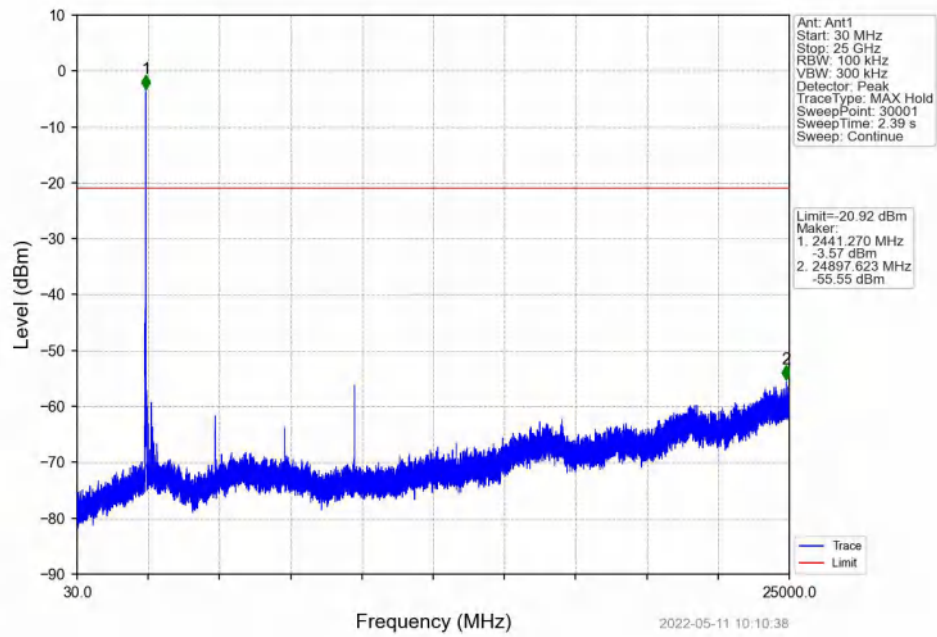


Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-0.92	-20.92	Pass
		2441	DH5	1	-0.92	-20.92	Pass
		2480	DH5	1	-0.92	-20.92	Pass
		HOPP	DH5	1	-0.92	-20.92	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-0.91	-20.91	Pass
		2441	2DH5	1	-0.91	-20.91	Pass
		2480	2DH5	1	-0.91	-20.91	Pass
		HOPP	2DH5	1	-0.91	-20.91	Pass
8DPSK	SISO	2402	3DH5	1	-0.73	-20.73	Pass
		2441	3DH5	1	-0.73	-20.73	Pass
		2480	3DH5	1	-0.73	-20.73	Pass
		HOPP	3DH5	1	-0.73	-20.73	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. Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.							

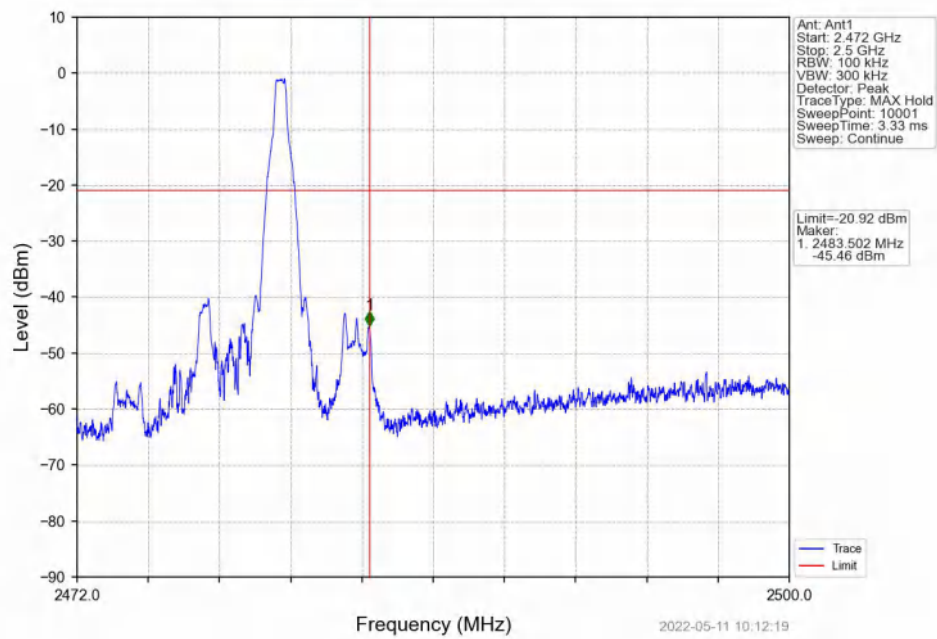
6.2.2 Test Graph



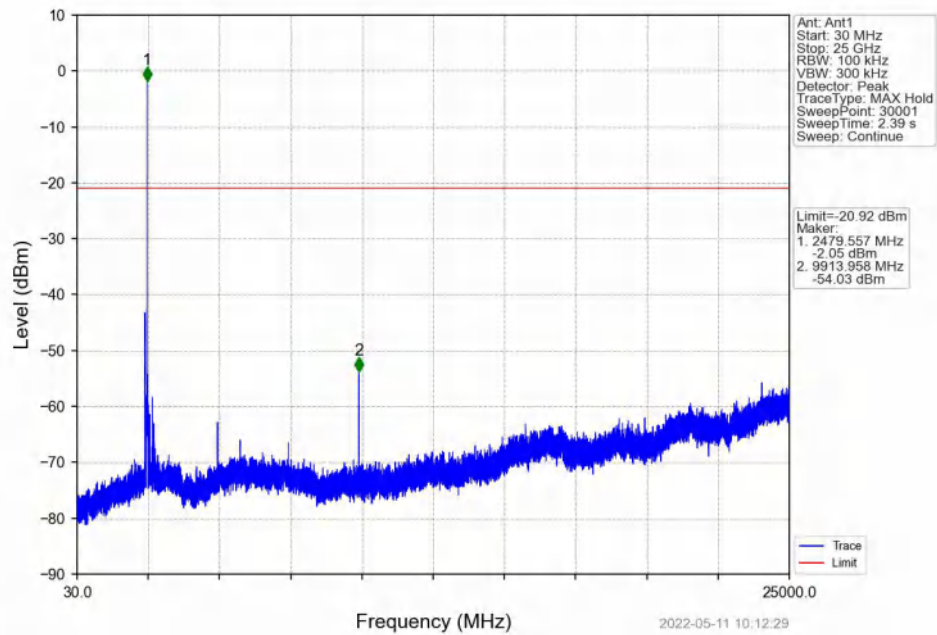
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



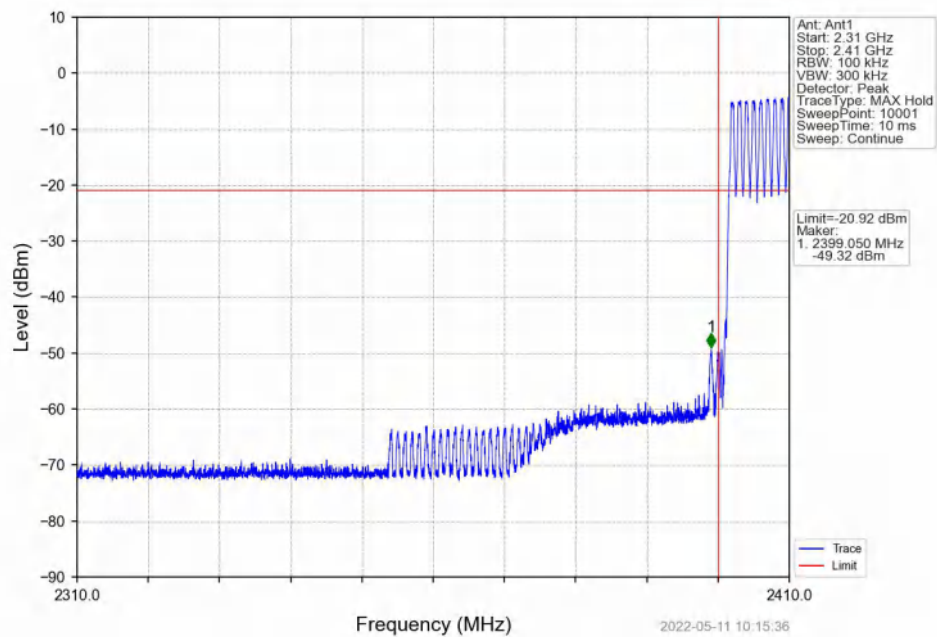
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



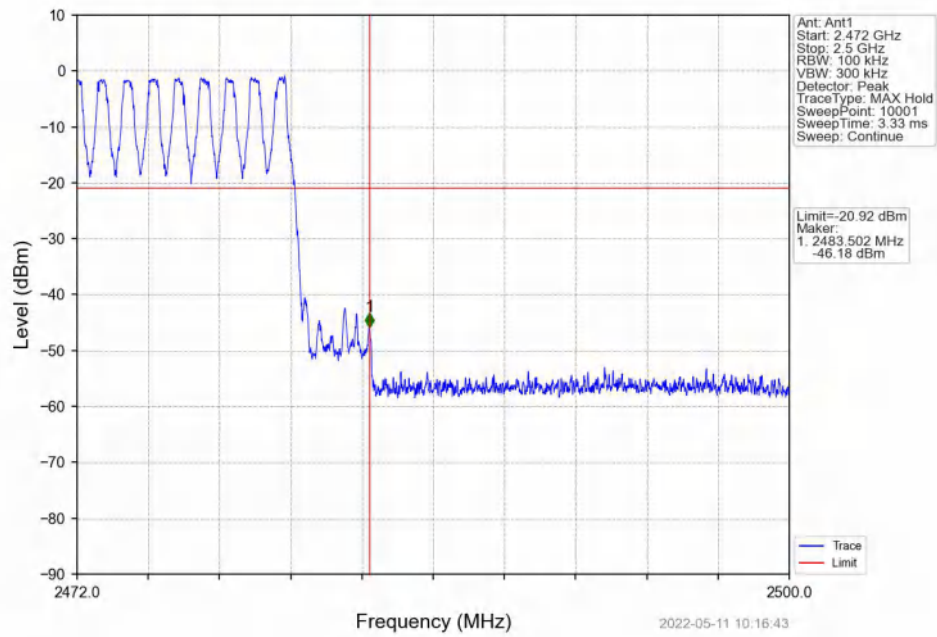
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



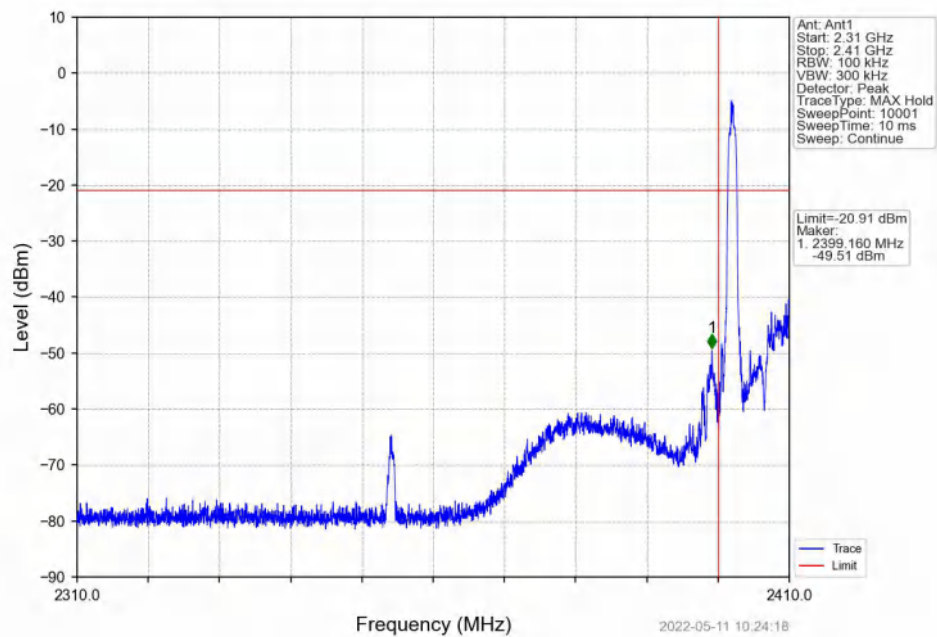
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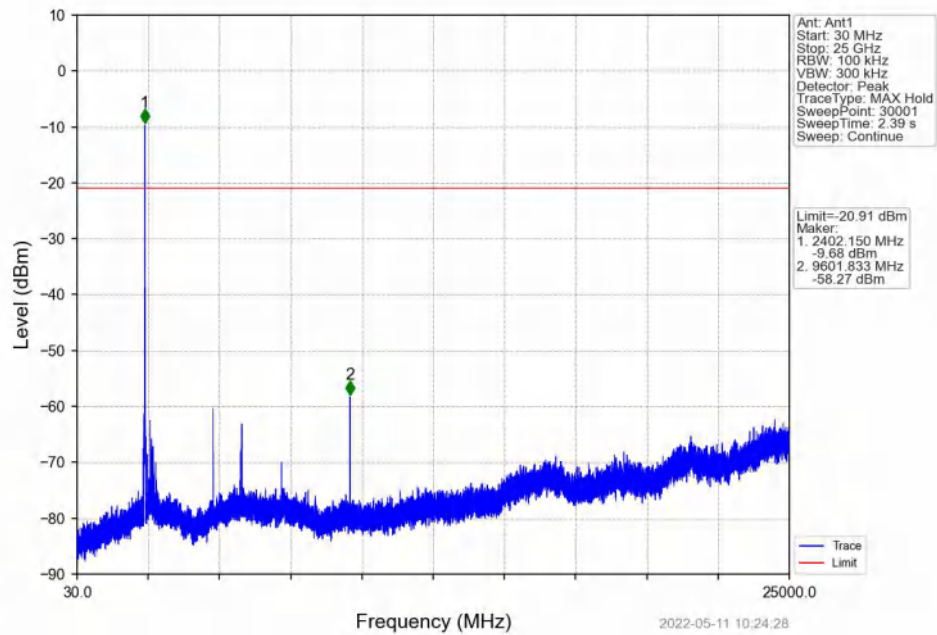
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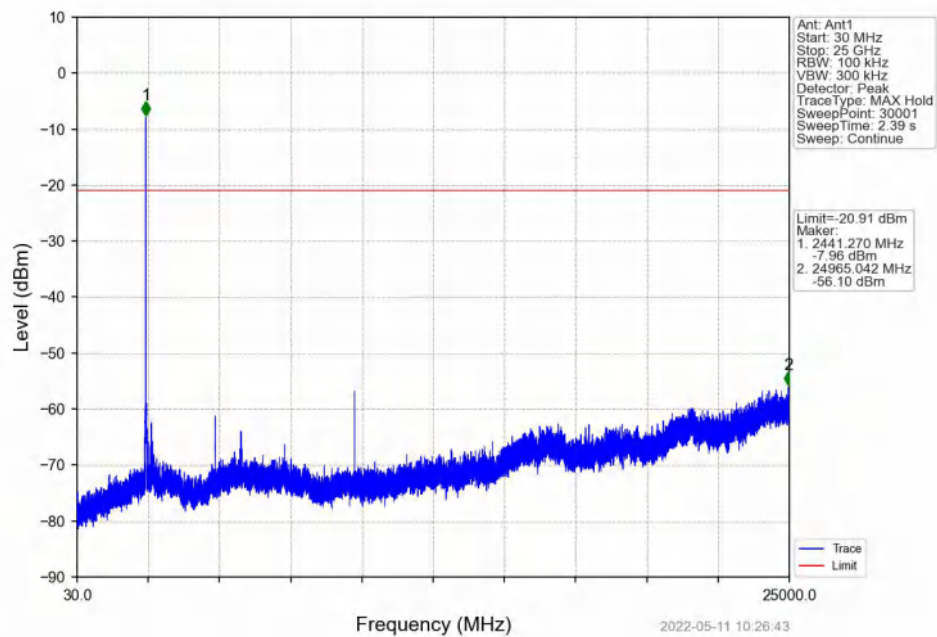
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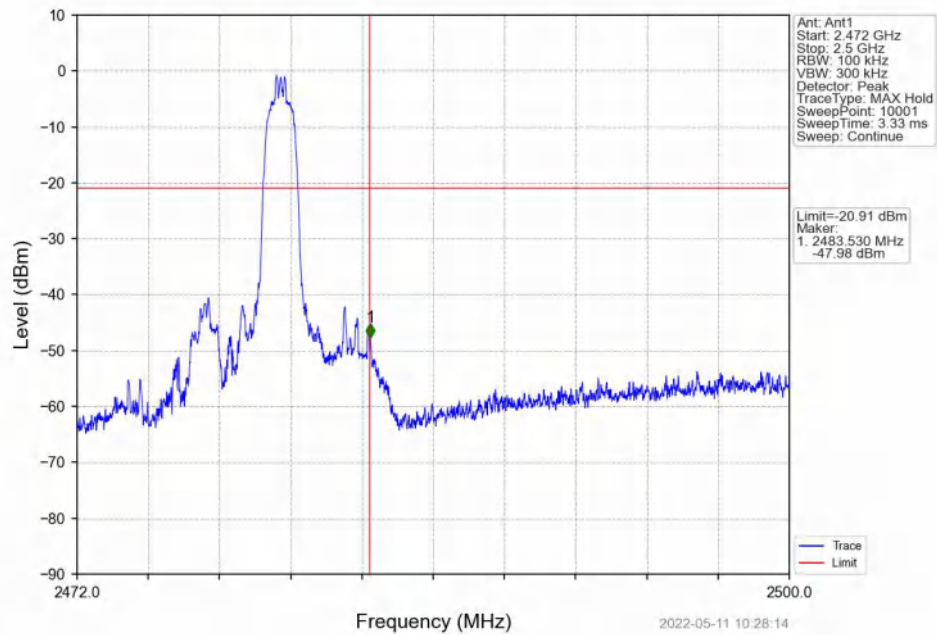
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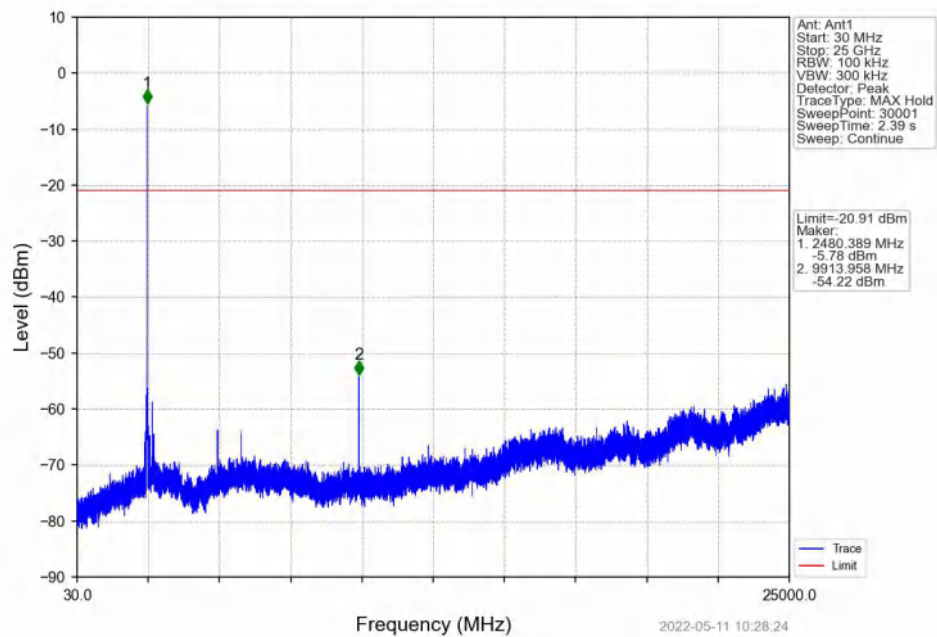
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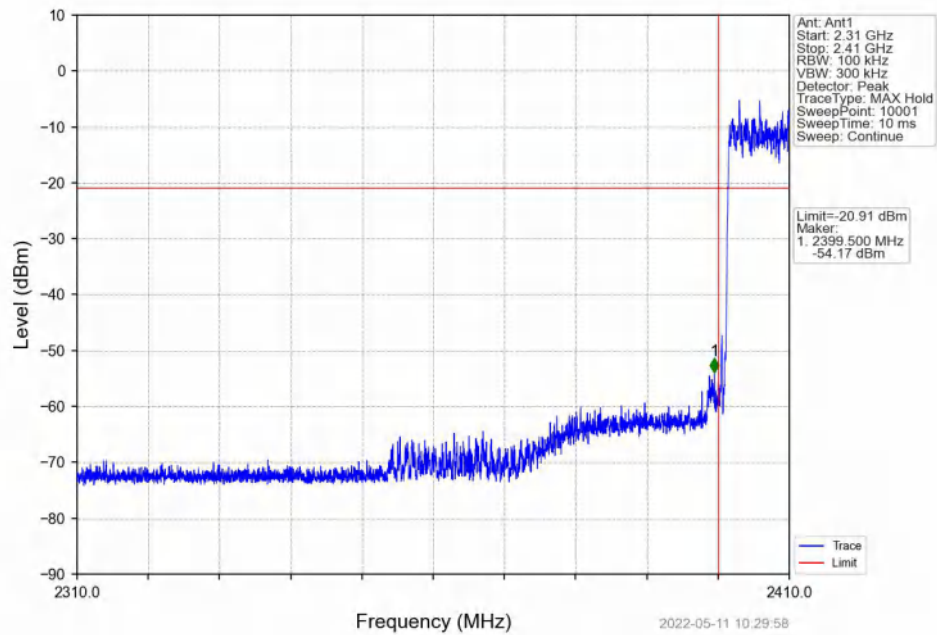
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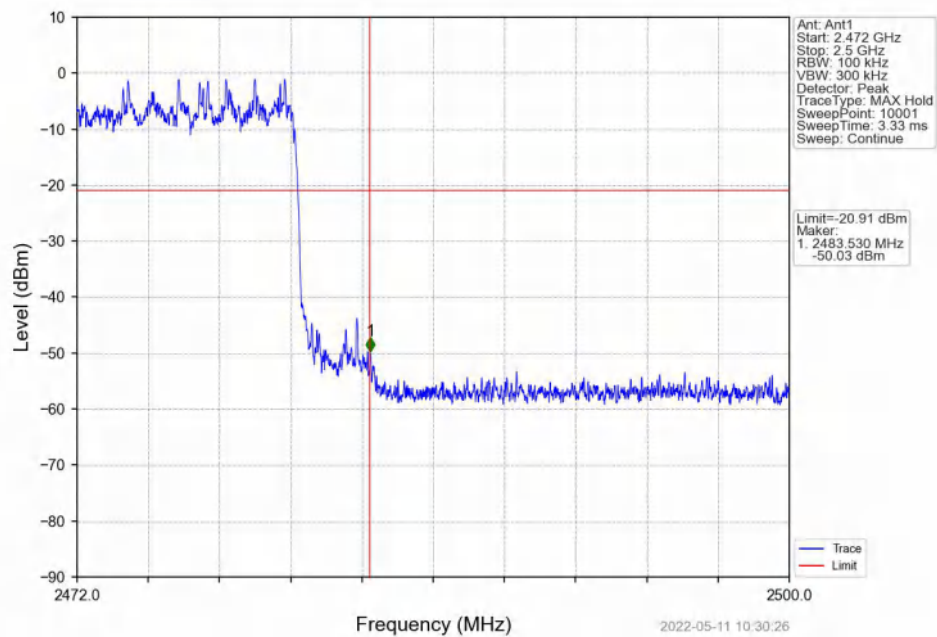
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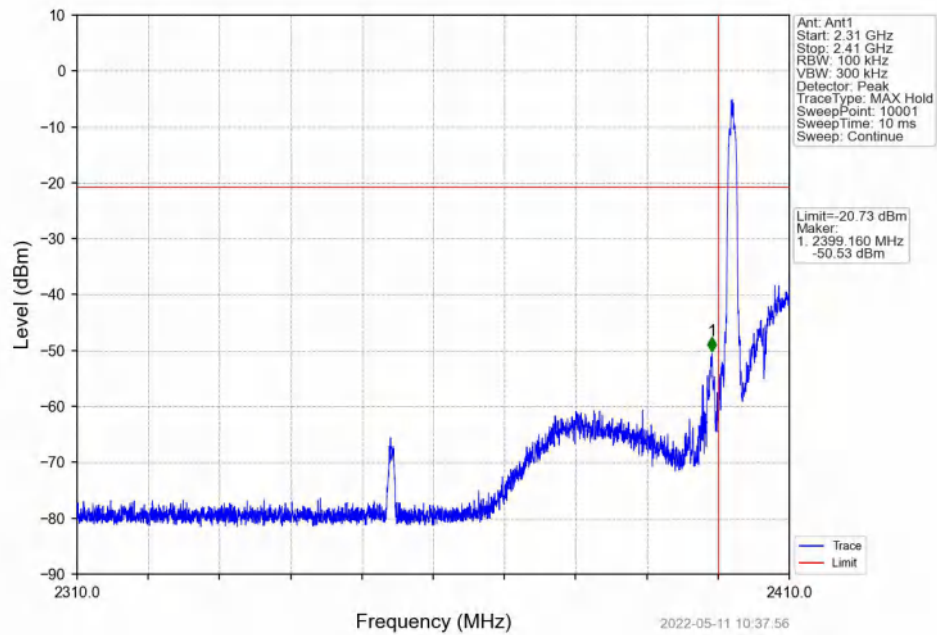
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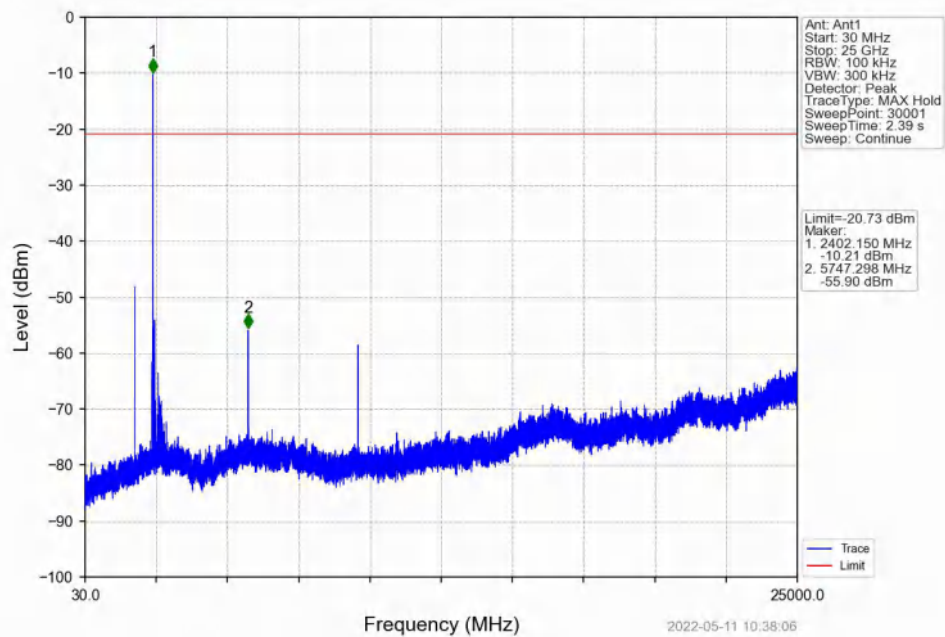
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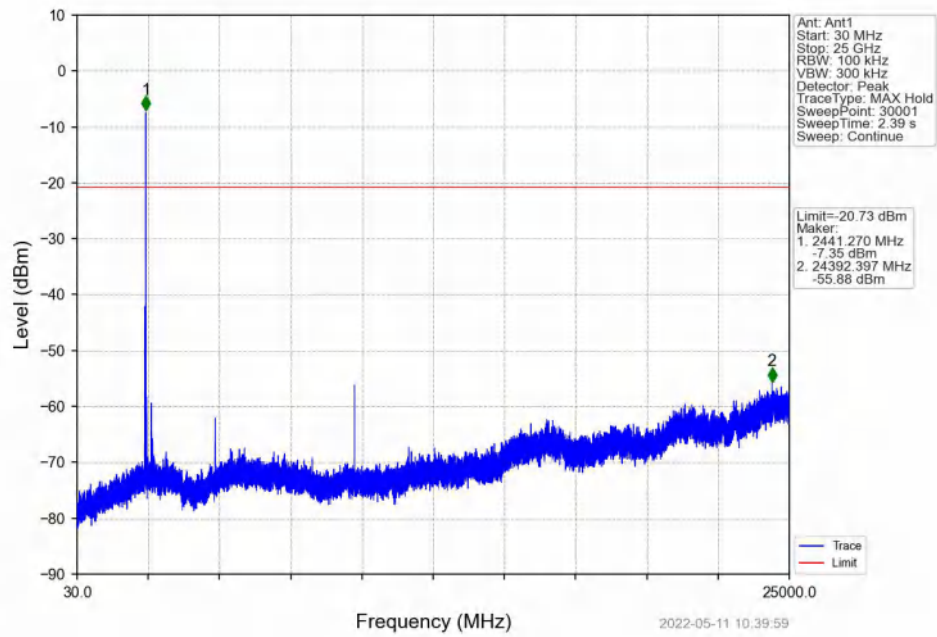
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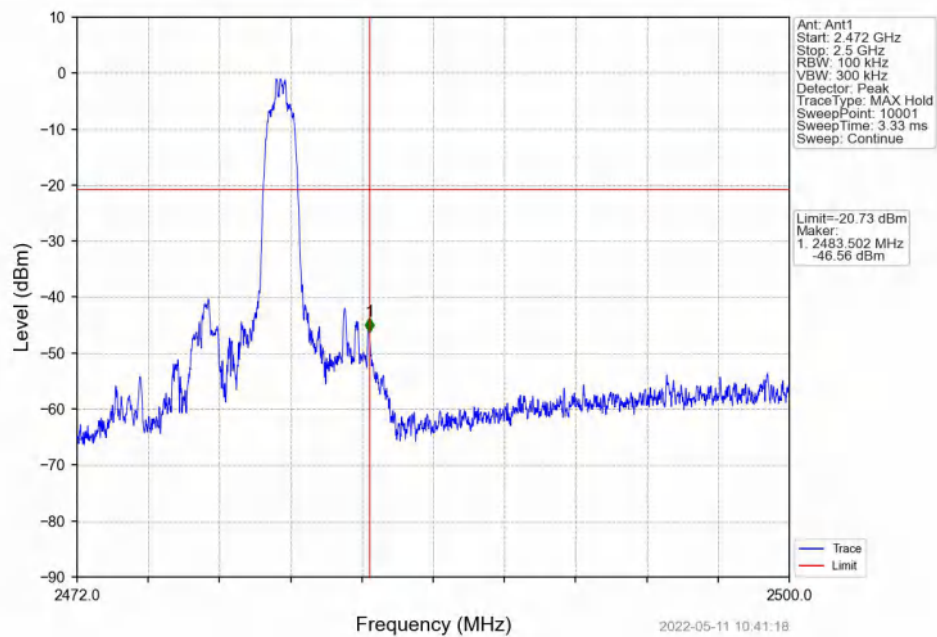
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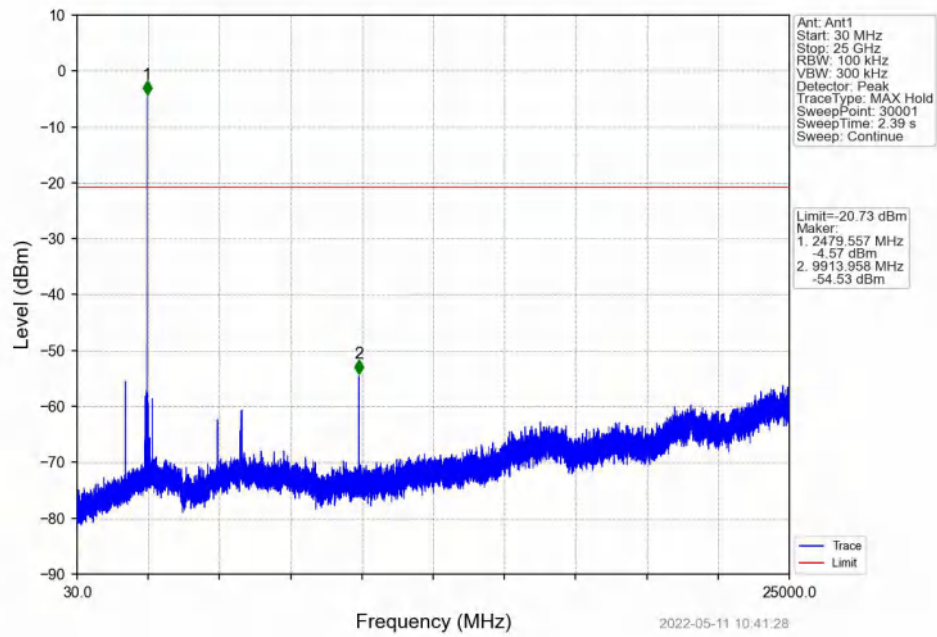
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

