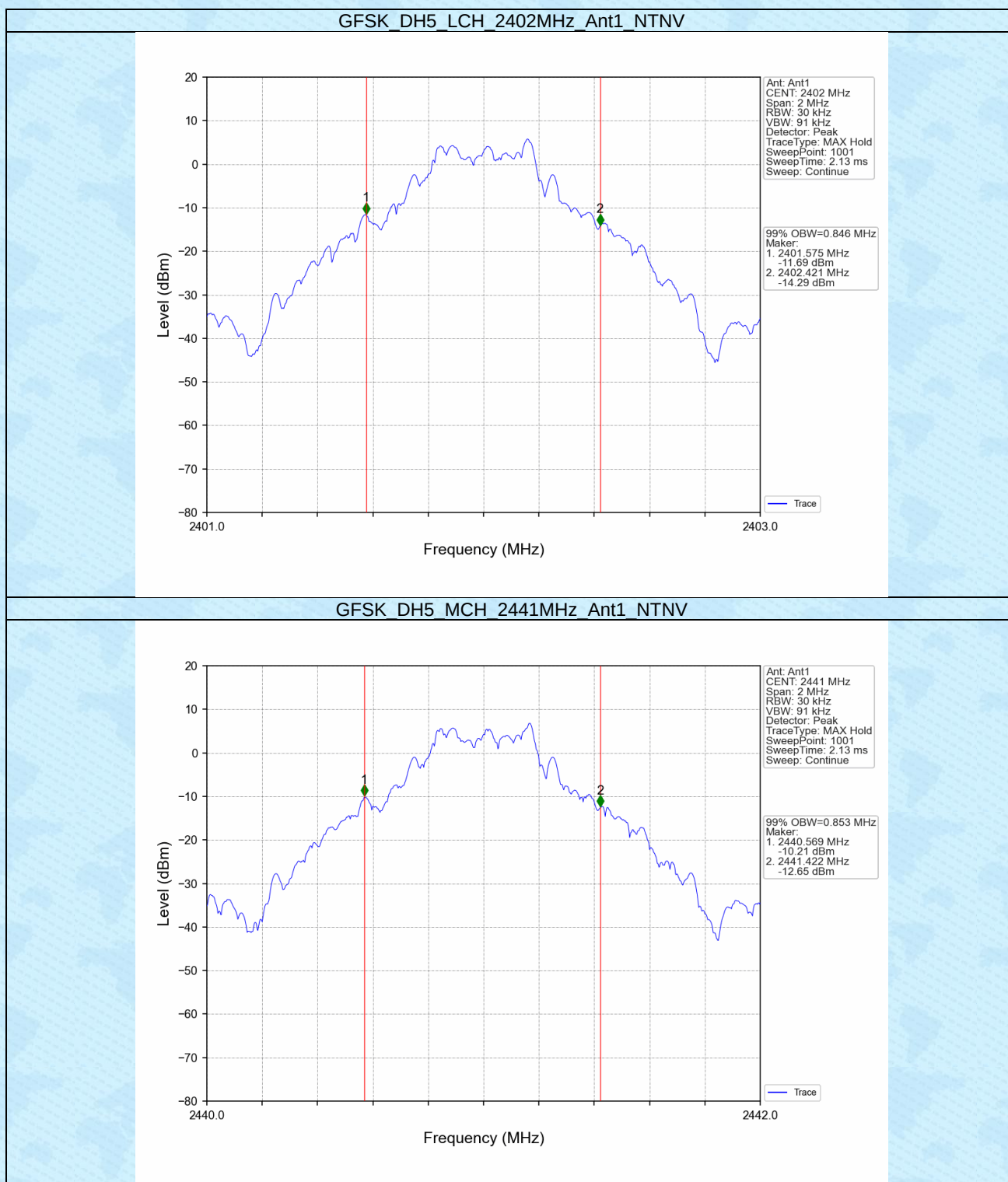


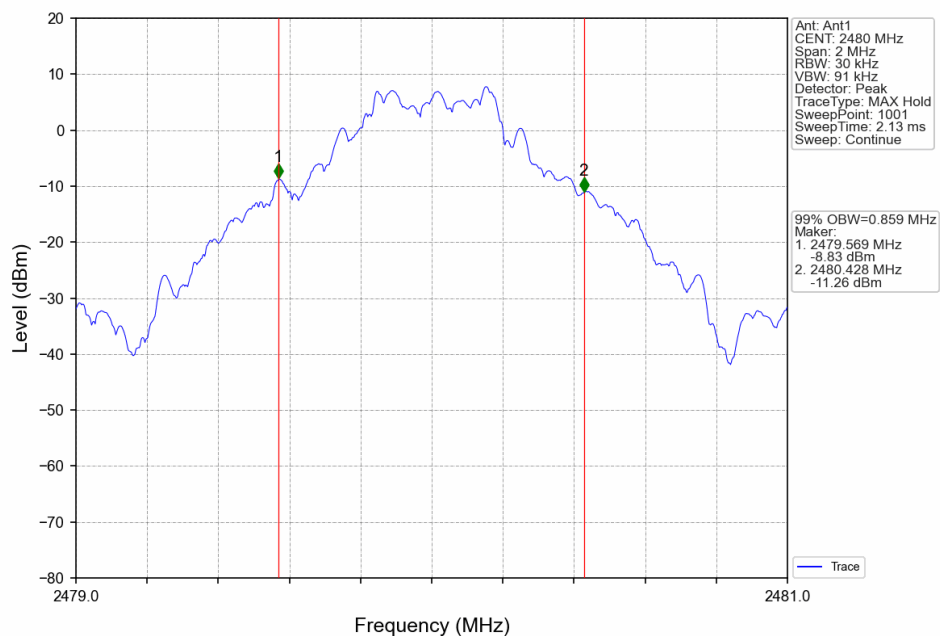
Appendix for 15.247**1. Bandwidth****1.1 OBW****1.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.846	Pass
		2441	DH5	1	0.853	Pass
		2480	DH5	1	0.859	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.164	Pass
		2441	2DH5	1	1.184	Pass
		2480	2DH5	1	1.163	Pass
8-DPSK	SISO	2402	3DH5	1	1.176	Pass
		2441	3DH5	1	1.176	Pass
		2480	3DH5	1	1.173	Pass

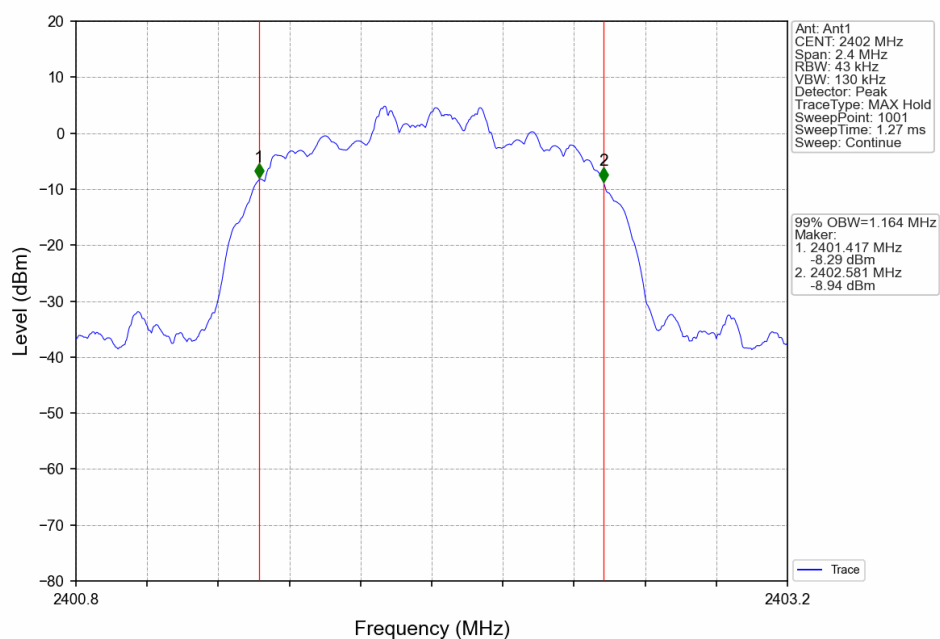
1.1.2 Test Graph



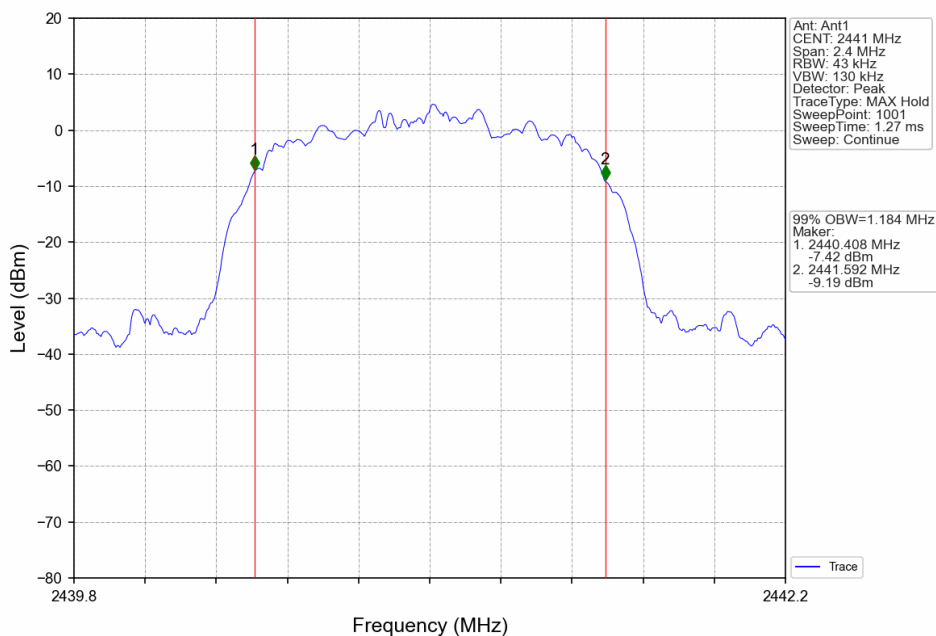
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



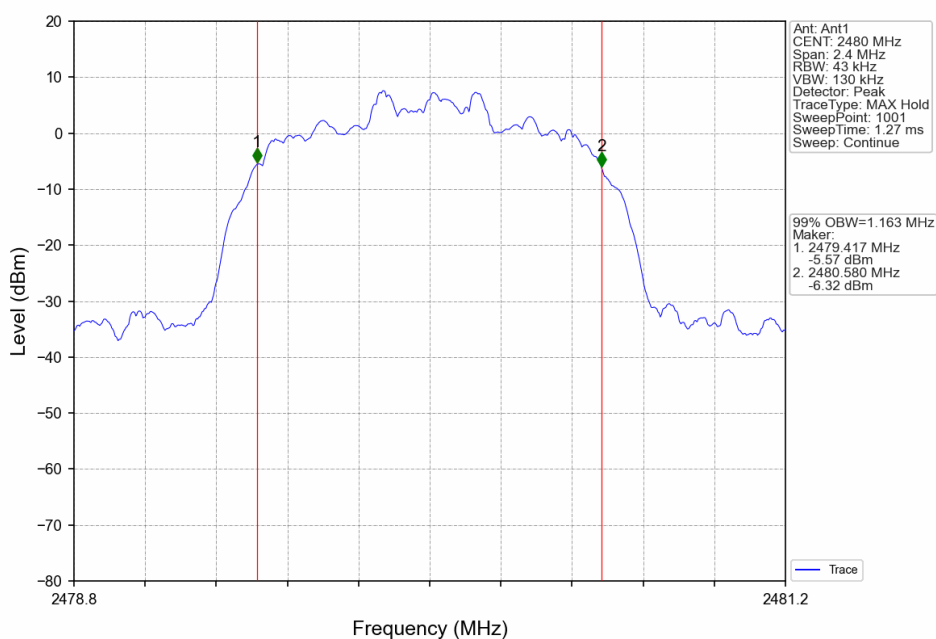
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



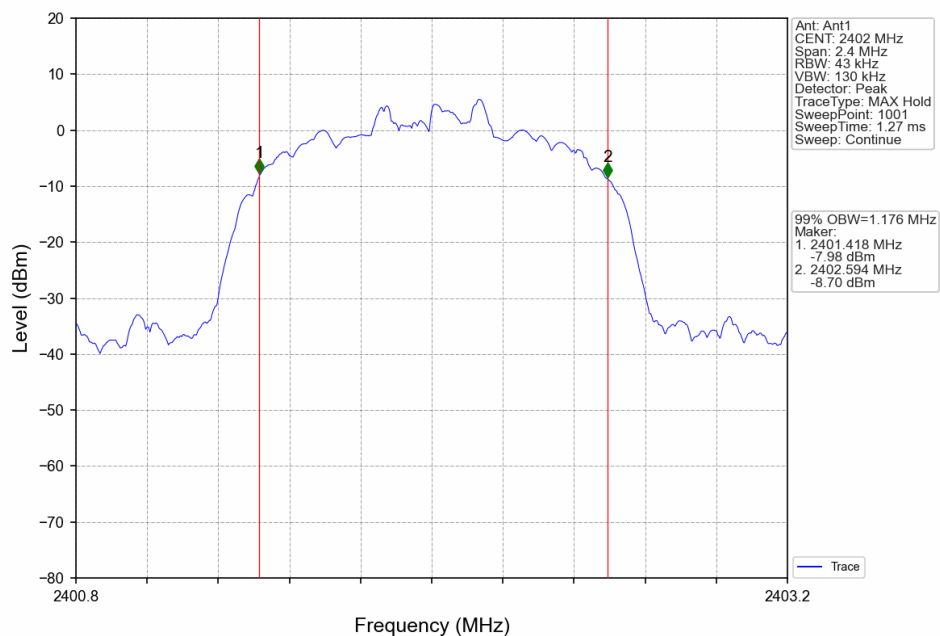
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



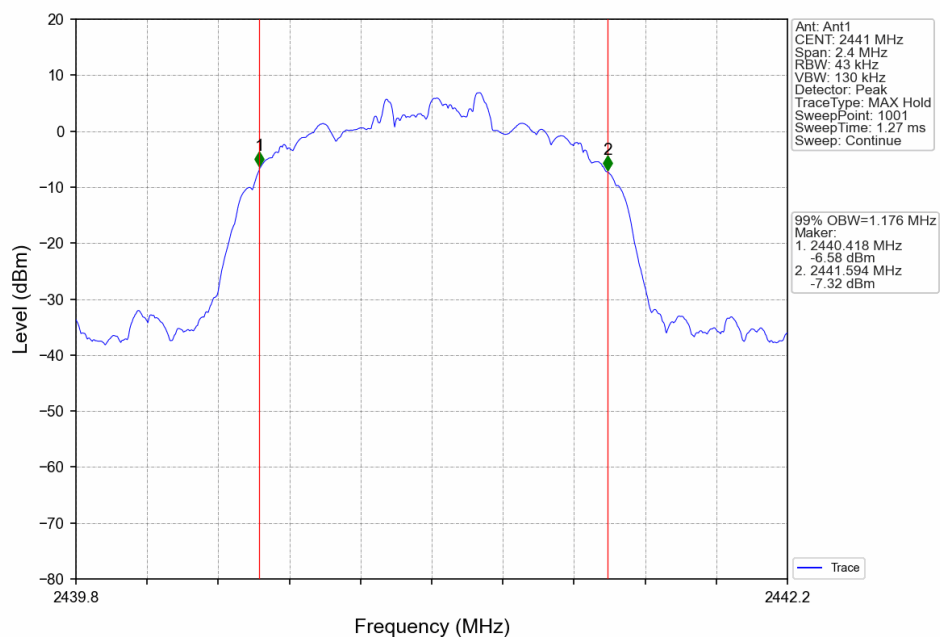
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

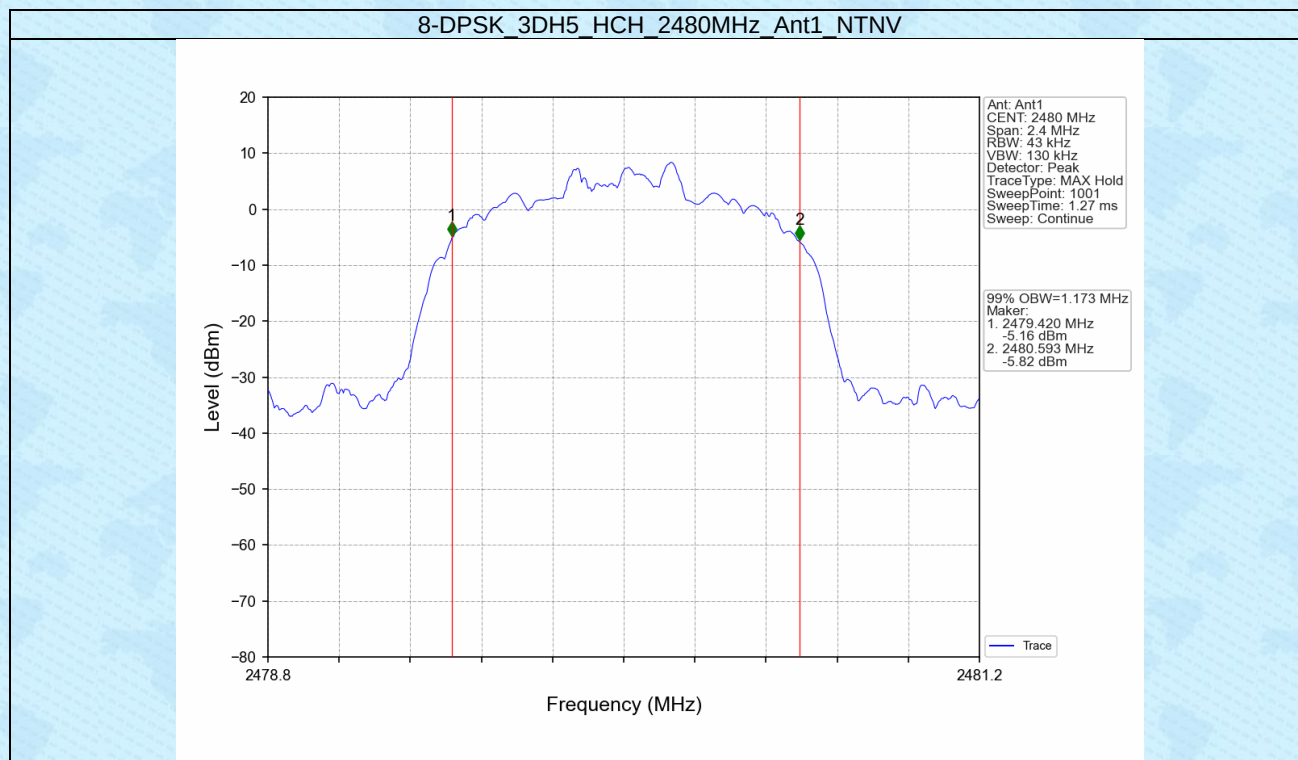


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



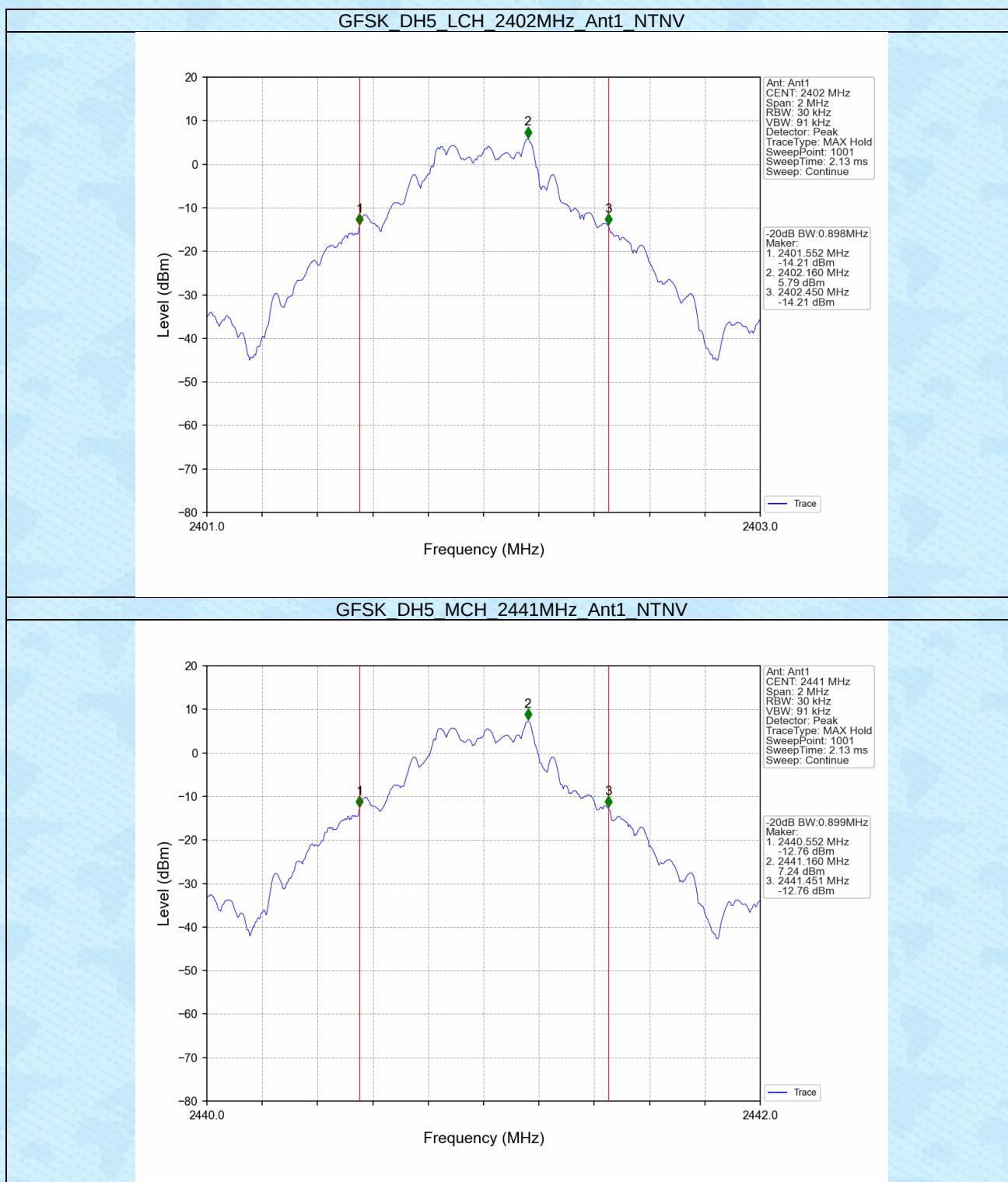


1.2 20dB BW

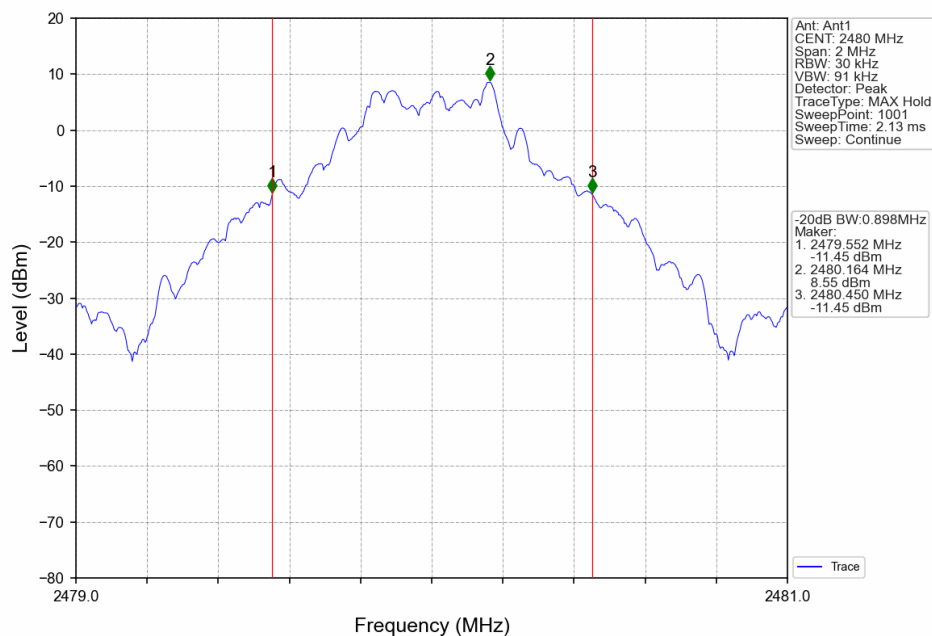
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.898	Pass
		2441	DH5	1	0.899	Pass
		2480	DH5	1	0.898	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.300	Pass
		2441	2DH5	1	1.333	Pass
		2480	2DH5	1	1.300	Pass
8-DPSK	SISO	2402	3DH5	1	1.315	Pass
		2441	3DH5	1	1.309	Pass
		2480	3DH5	1	1.311	Pass

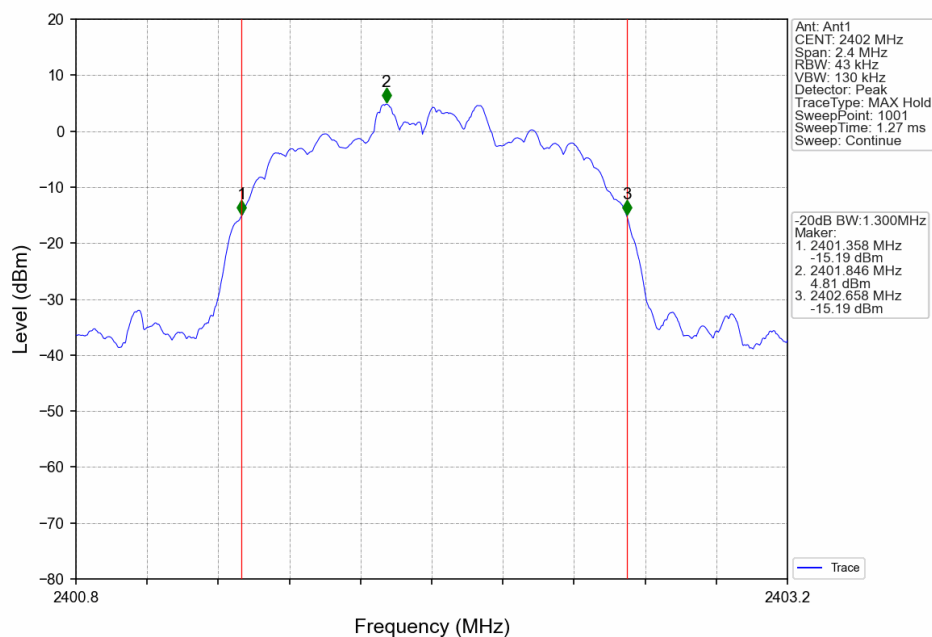
1.2.2 Test Graph



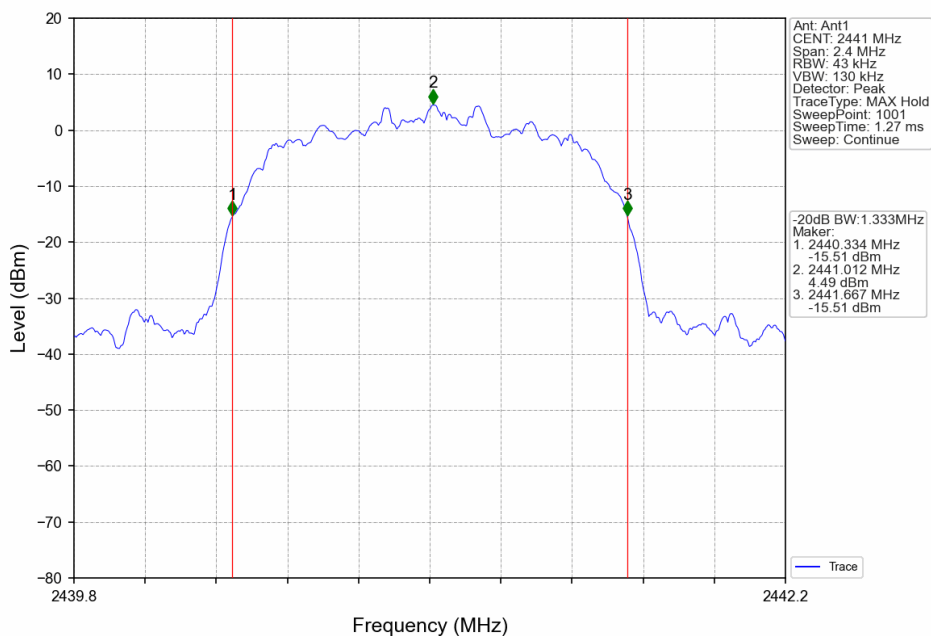
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



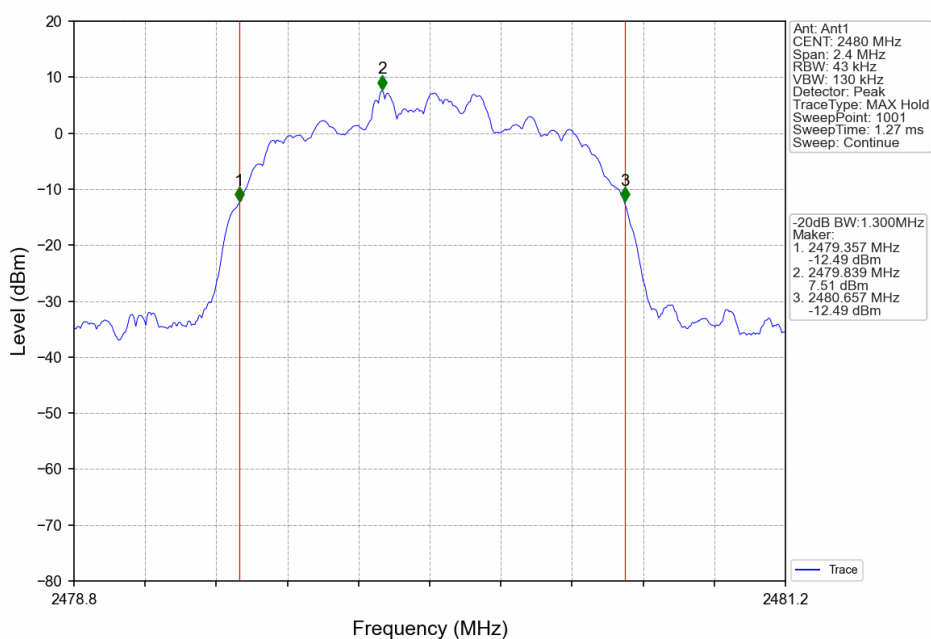
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



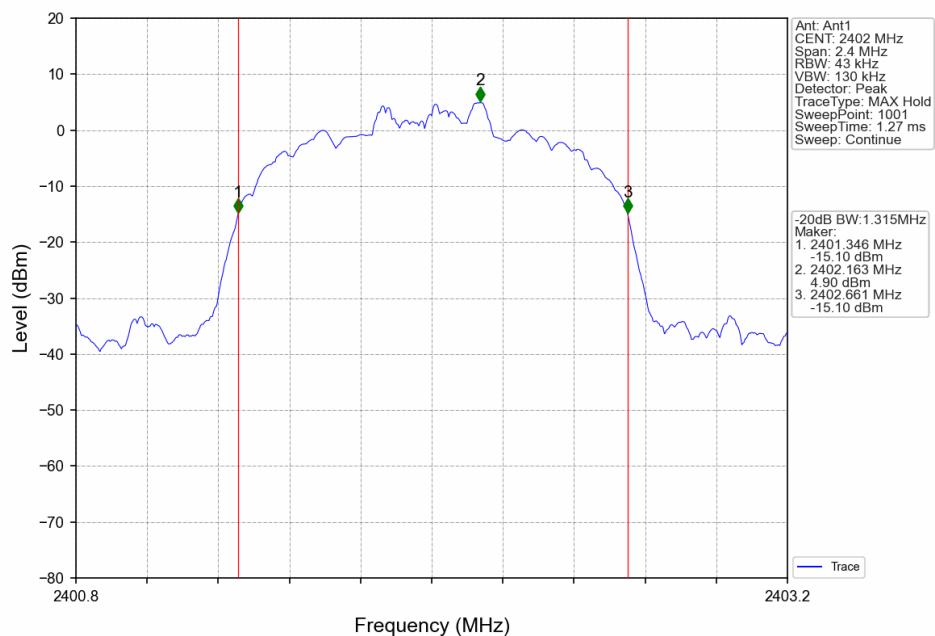
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



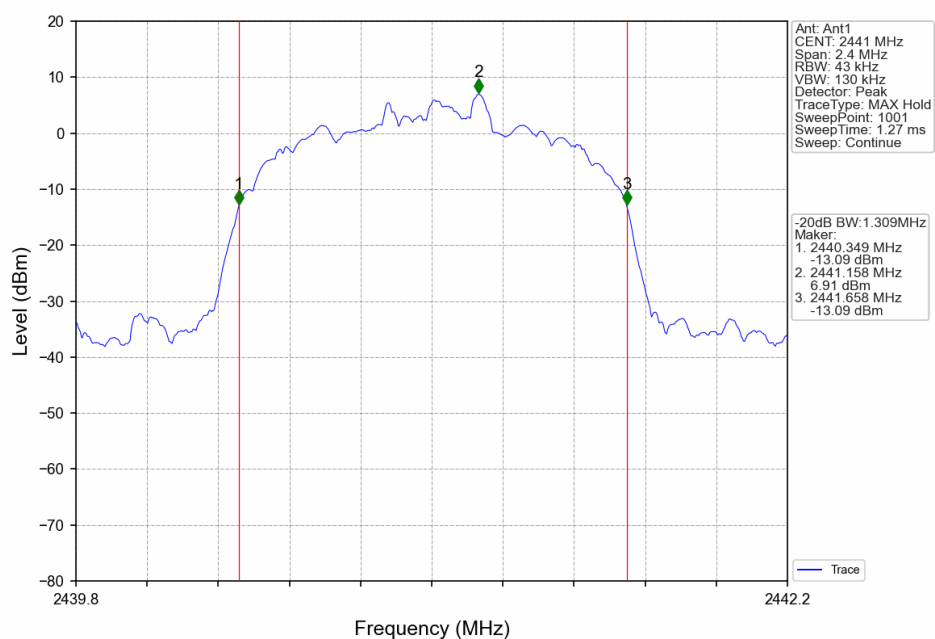
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

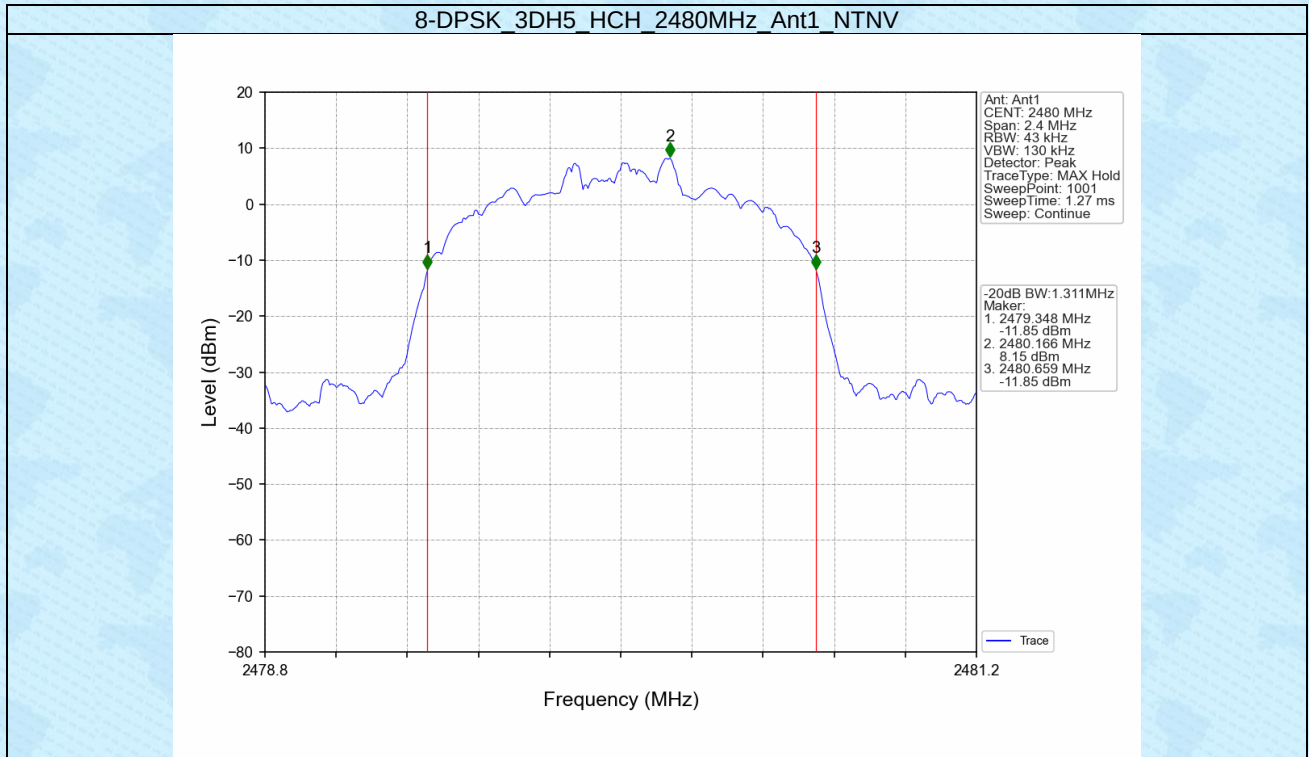


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



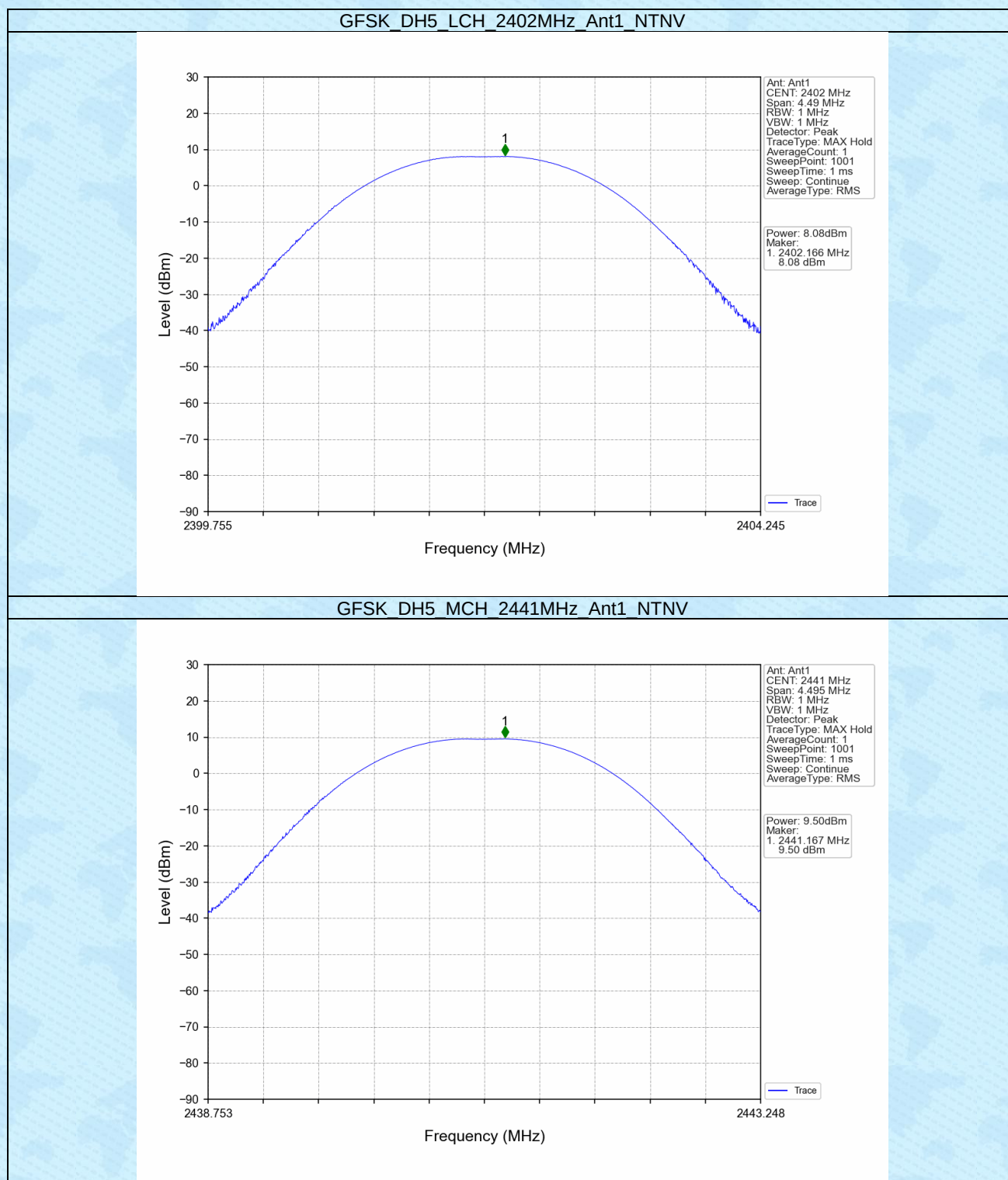


2. Maximum Conducted Output Power

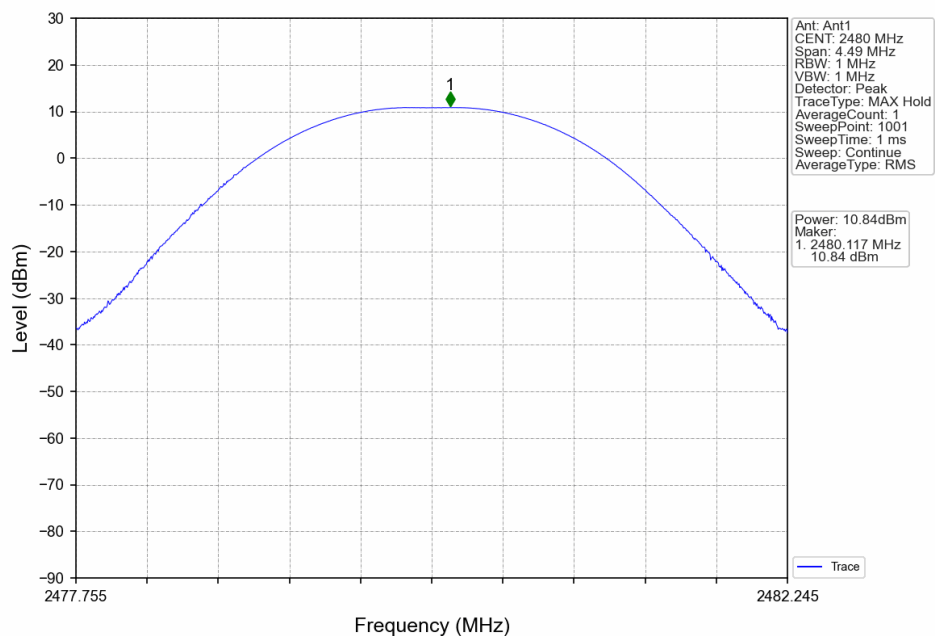
2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	8.08	≤ 20.97	Pass
		2441	DH5	9.50	≤ 20.97	Pass
		2480	DH5	10.84	≤ 20.97	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	7.65	≤ 20.97	Pass
		2441	2DH5	6.24	≤ 20.97	Pass
		2480	2DH5	10.41	≤ 20.97	Pass
8-DPSK	SISO	2402	3DH5	7.97	≤ 20.97	Pass
		2441	3DH5	9.41	≤ 20.97	Pass
		2480	3DH5	10.91	≤ 20.97	Pass

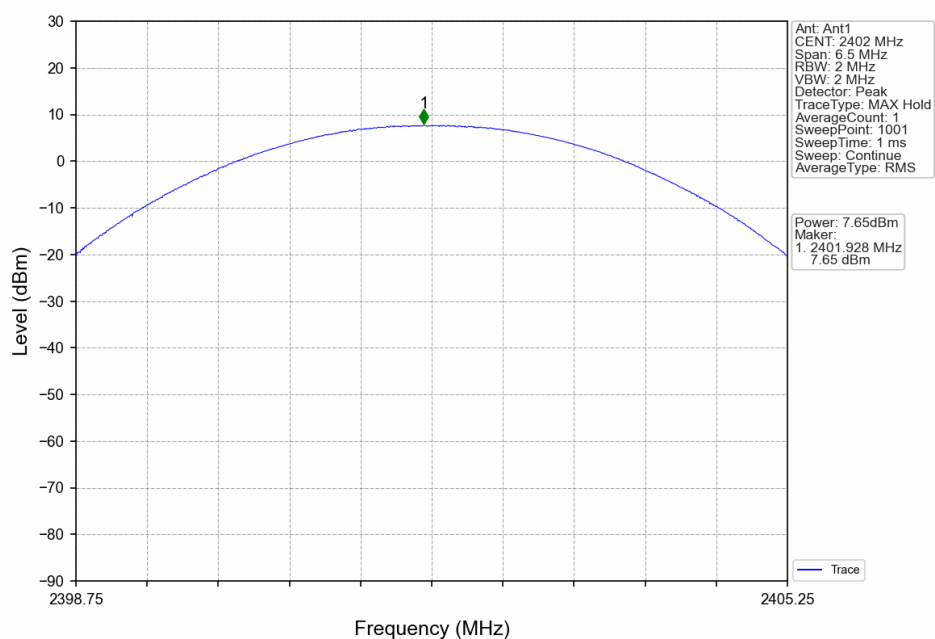
2.2 Test Graph



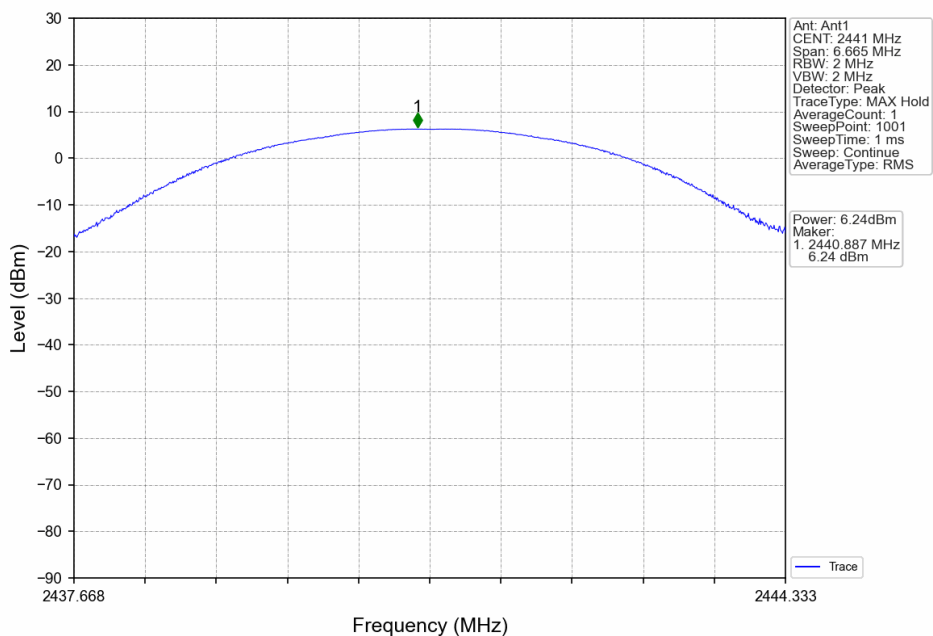
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



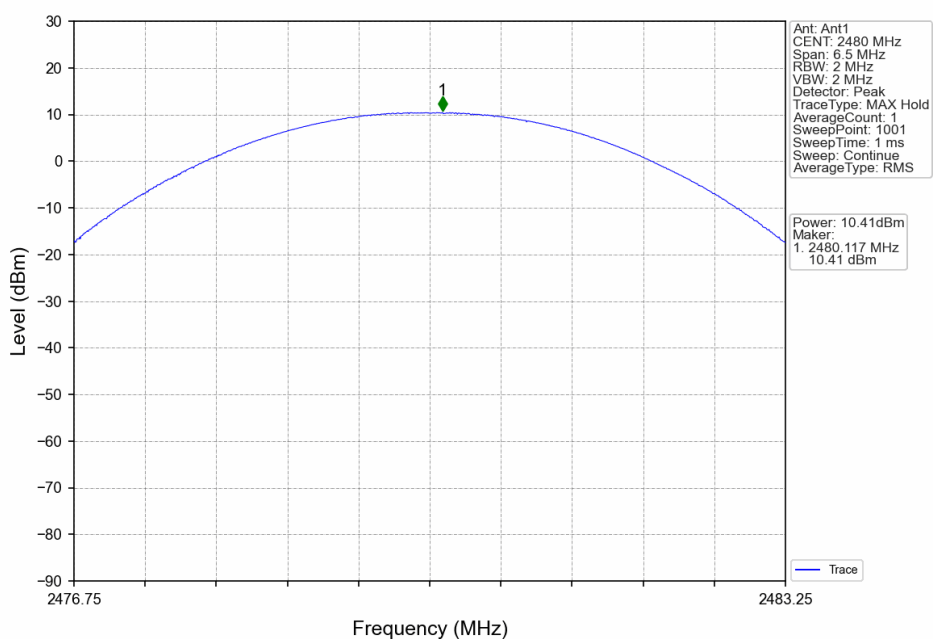
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



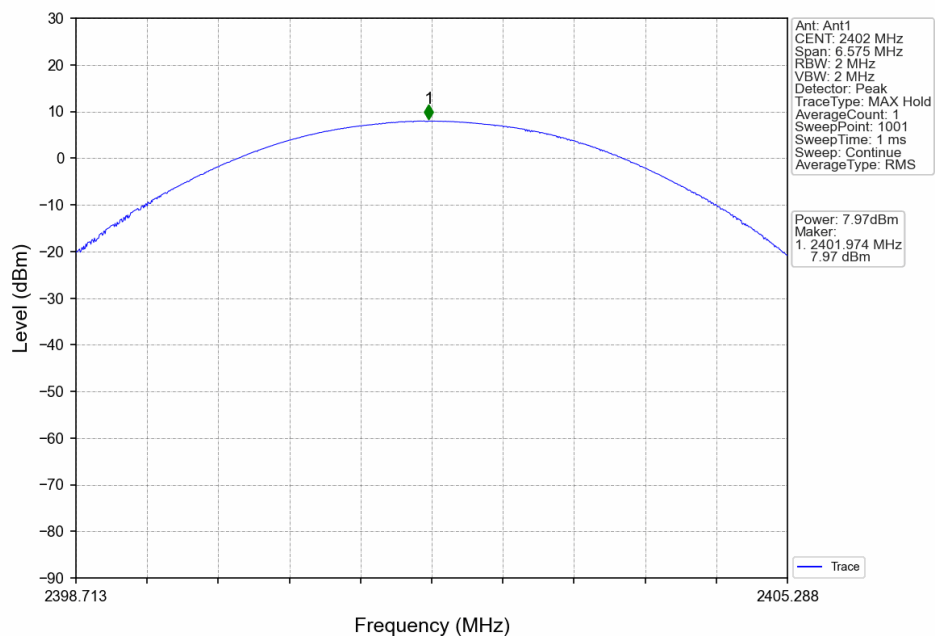
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



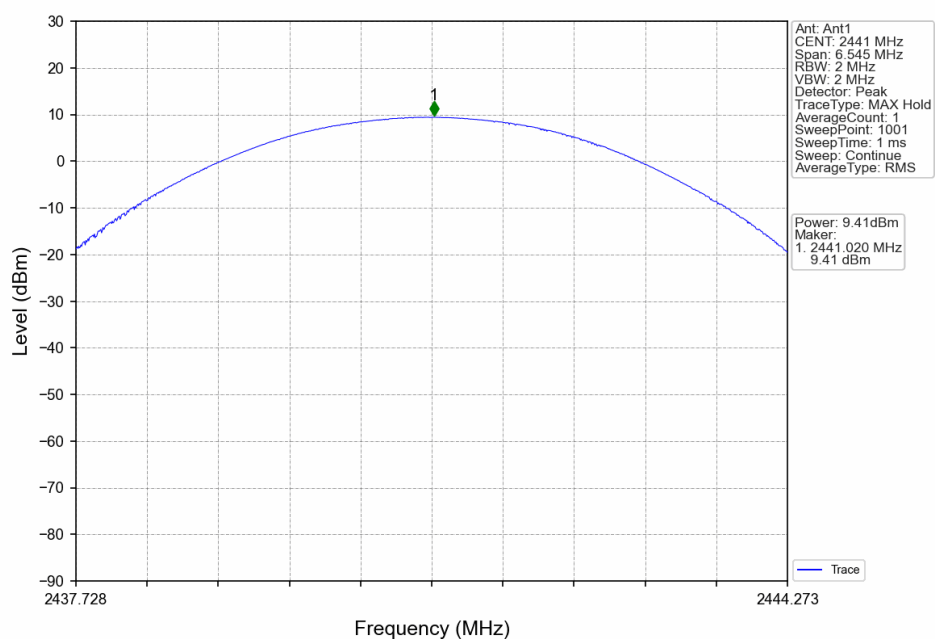
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

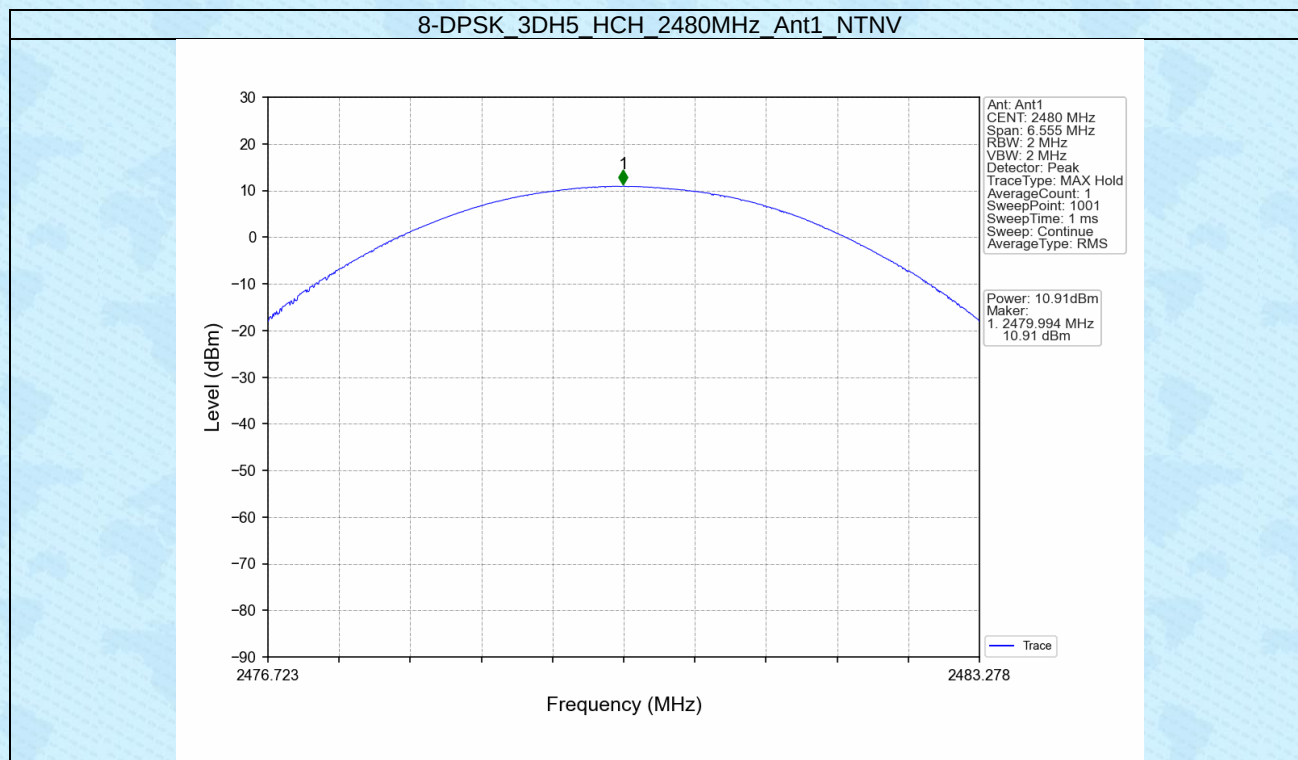


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



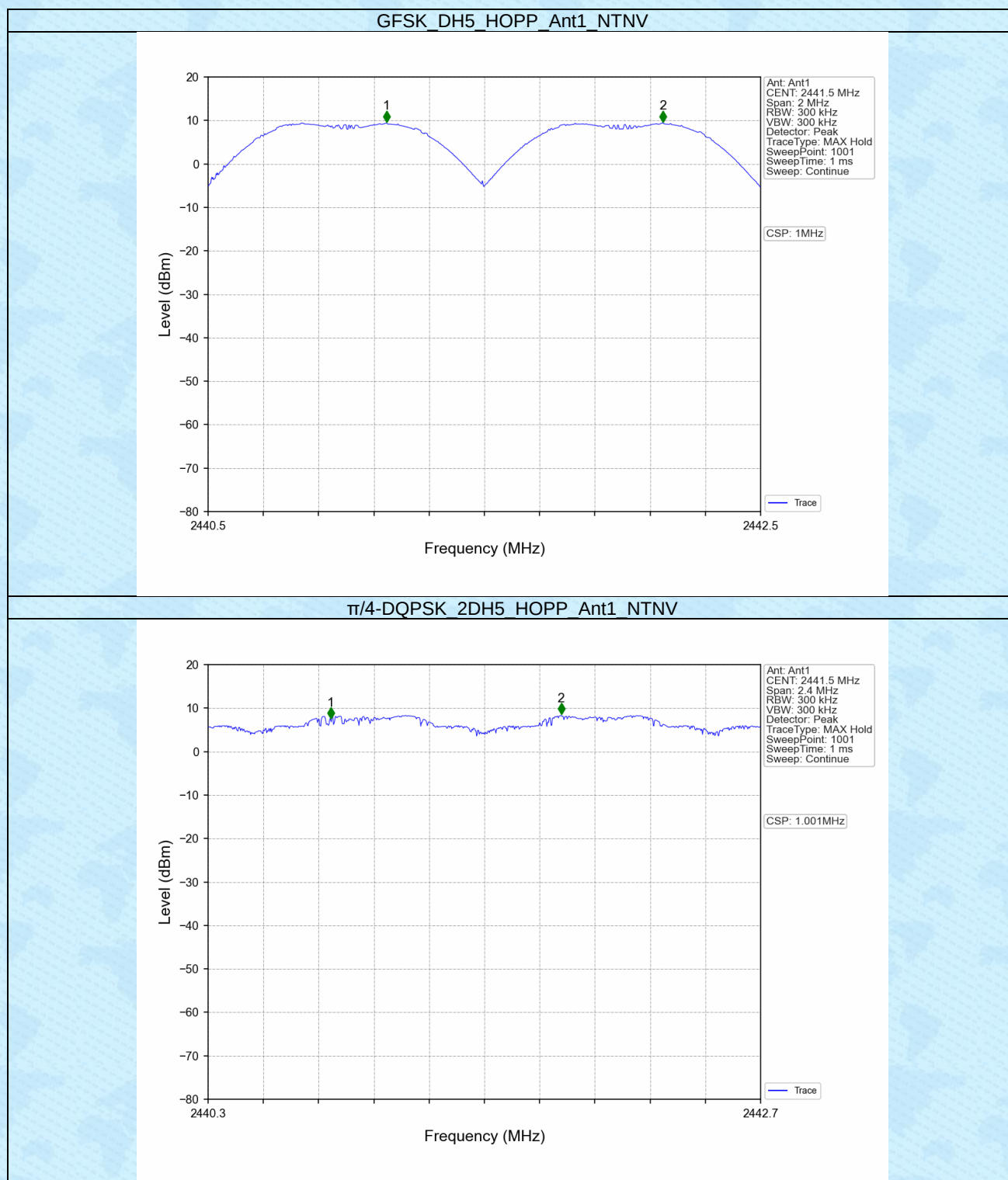


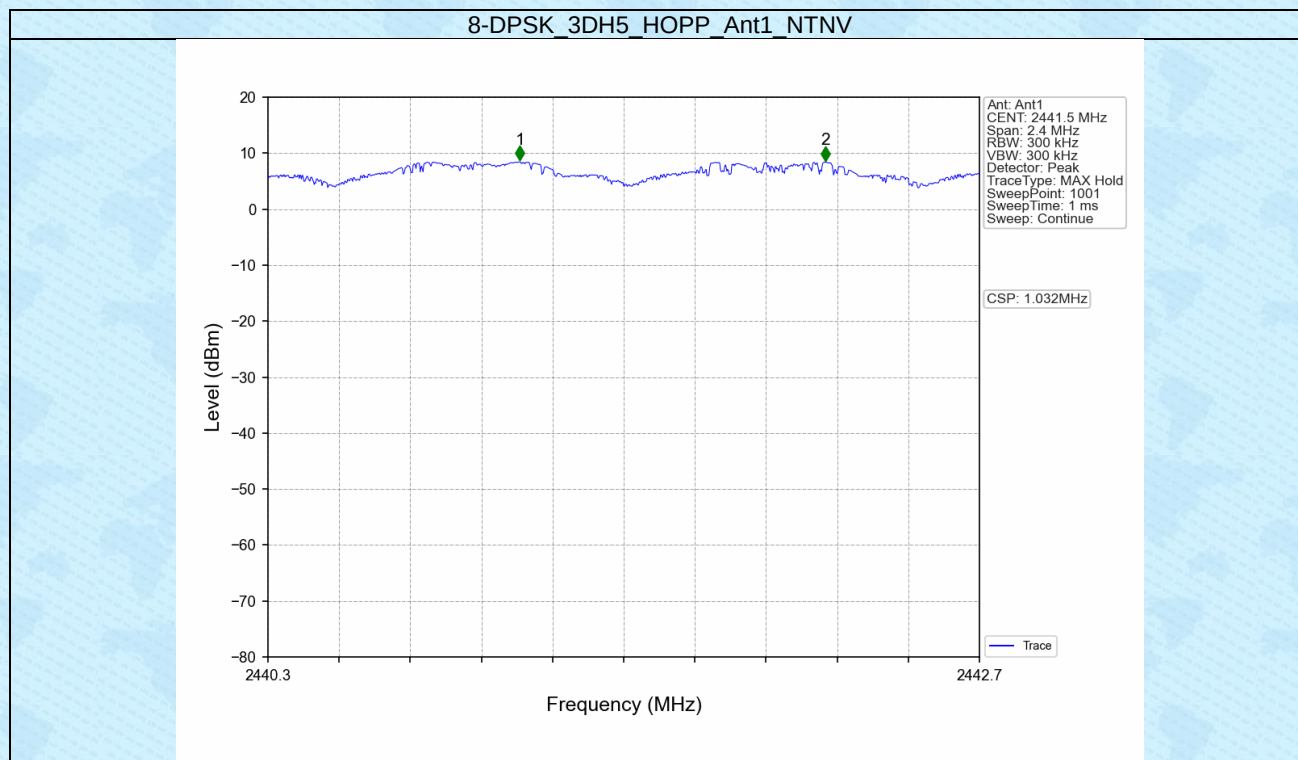
3. Carrier Frequency Separation

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	1.000	0.899	≥ 0.899	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	1.001	1.333	≥ 0.889	Pass
8-DPSK	SISO	HOPP	3DH5	1.032	1.315	≥ 0.877	Pass

3.2 Test Graph



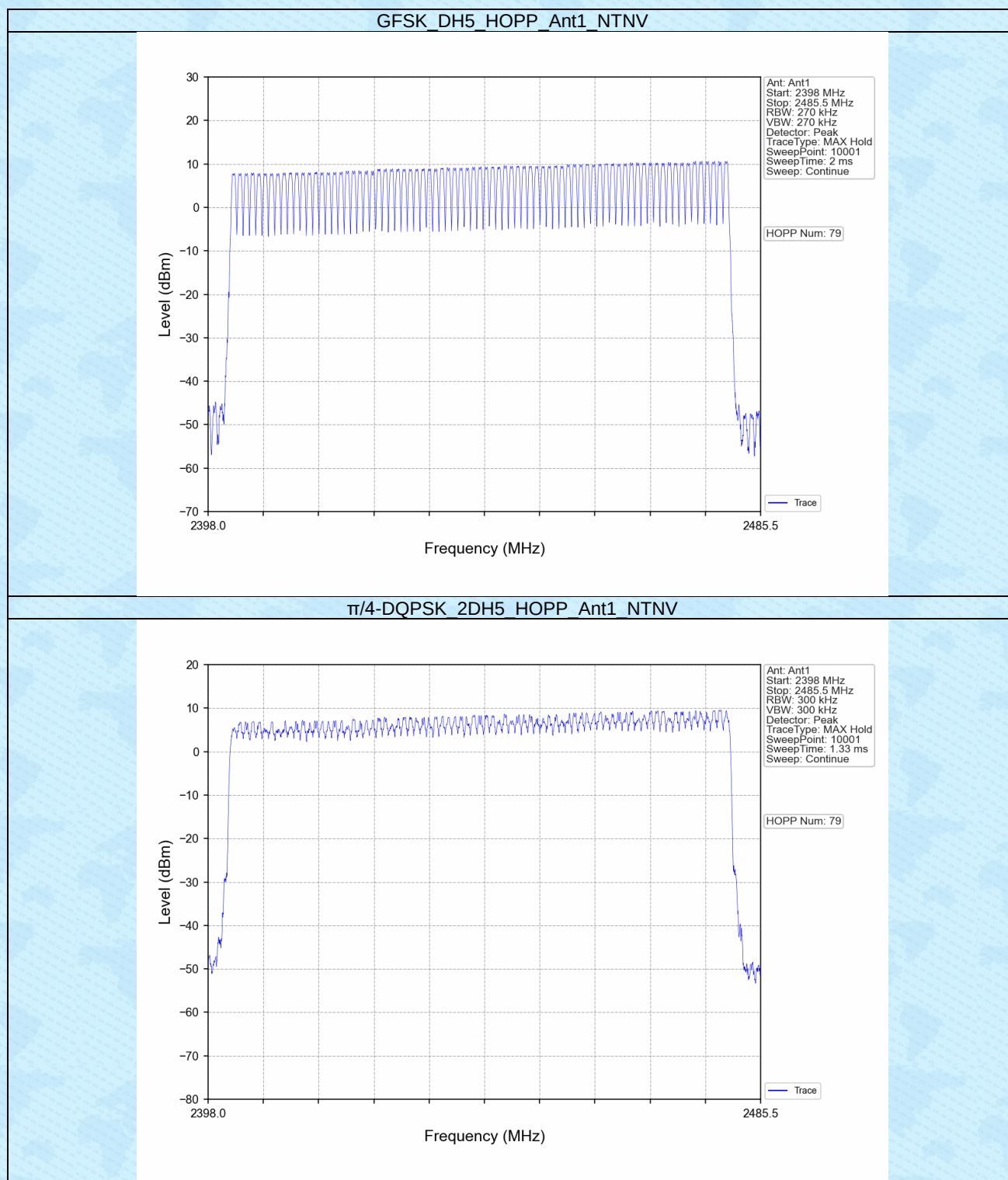


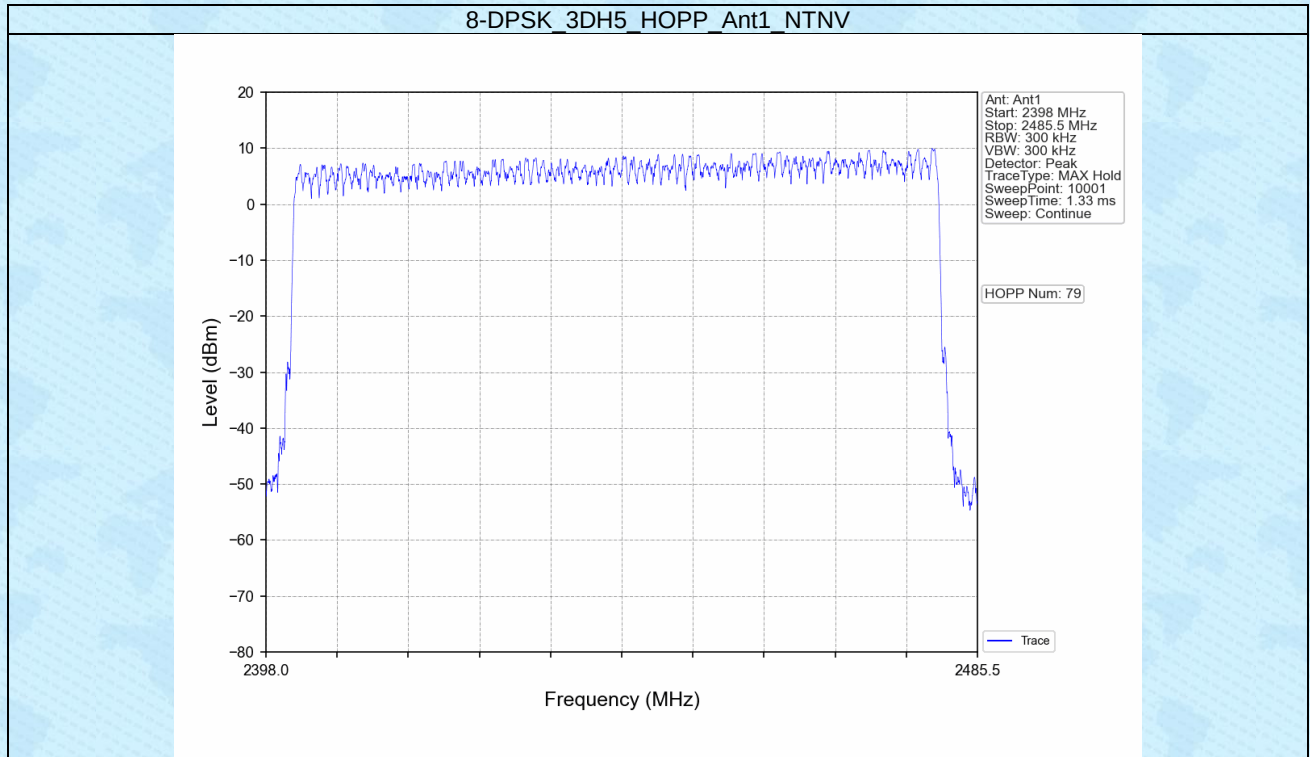
4. Number of Hopping Frequencies

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



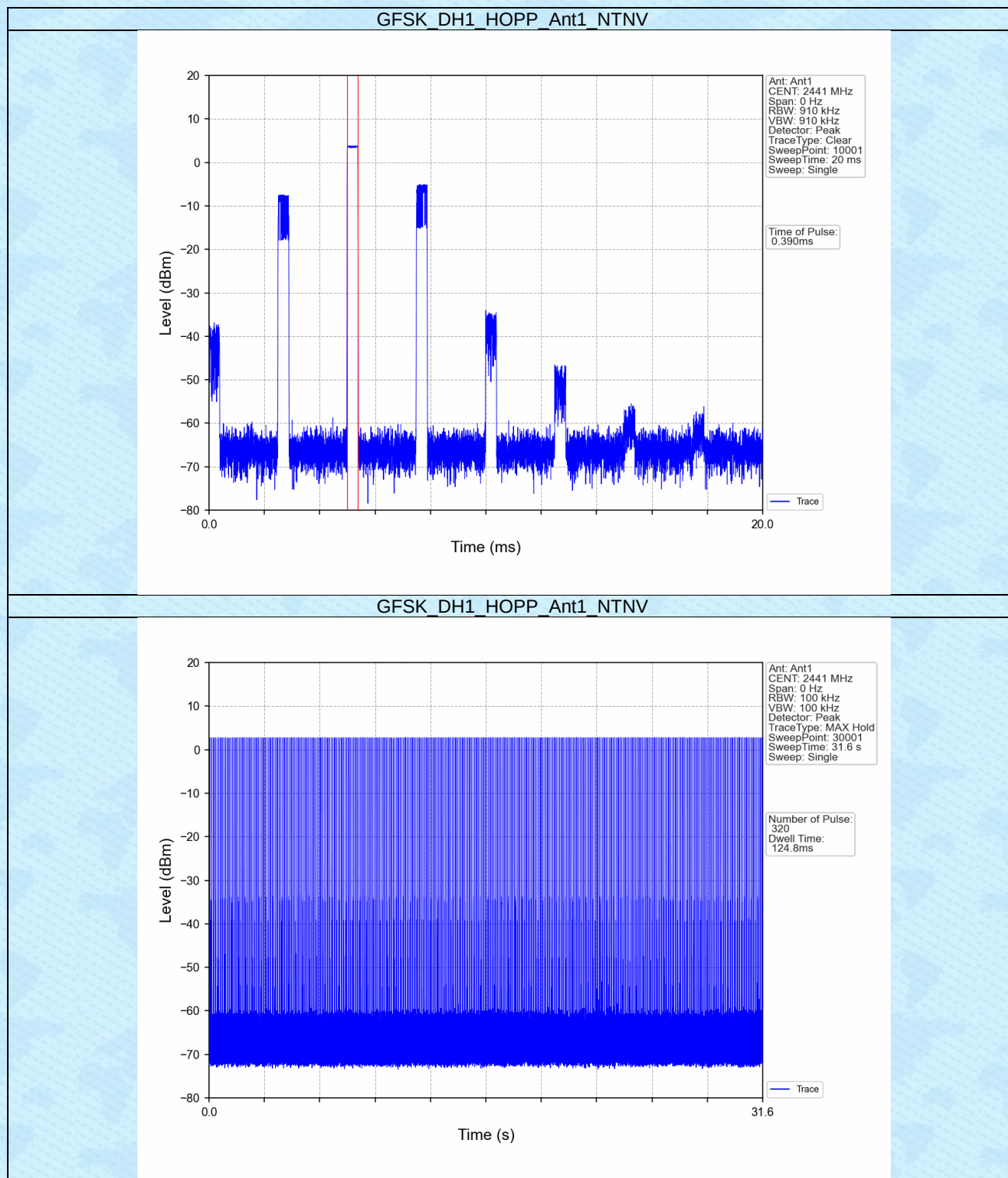


5. Time of Occupancy (Dwell Time)

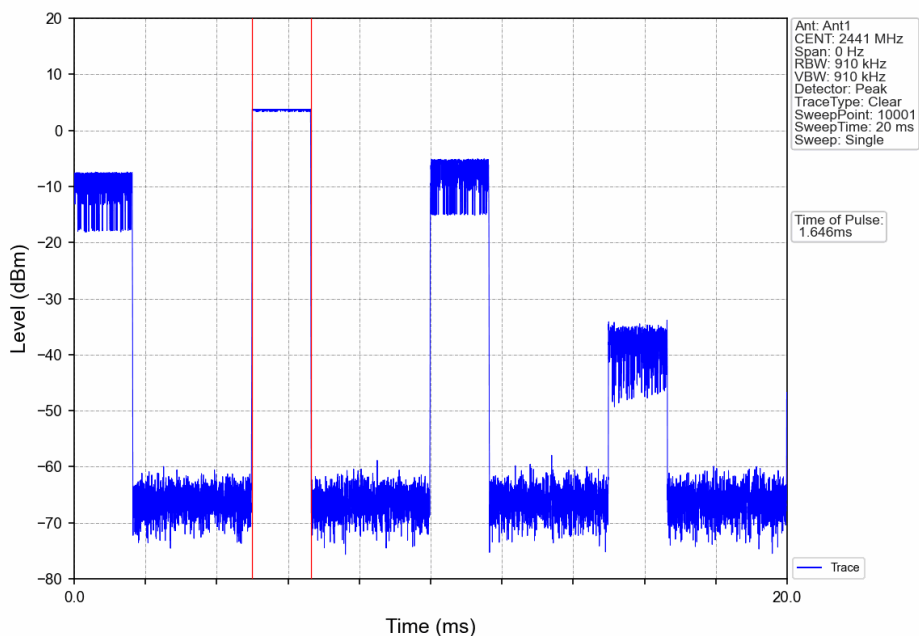
5.1 Test Result

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	0.390	31.600	320	124.800	<=400	Pass
			DH3	1.646	31.600	160	263.360	<=400	Pass
			DH5	2.892	31.600	107	309.444	<=400	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.400	31.600	320	128.000	<=400	Pass
			2DH3	1.650	31.600	160	264.000	<=400	Pass
			2DH5	2.900	31.600	107	310.300	<=400	Pass
8-DPSK	SISO	HOPP	3DH1	0.400	31.600	320	128.000	<=400	Pass
			3DH3	1.650	31.600	160	264.000	<=400	Pass
			3DH5	2.900	31.600	107	310.300	<=400	Pass

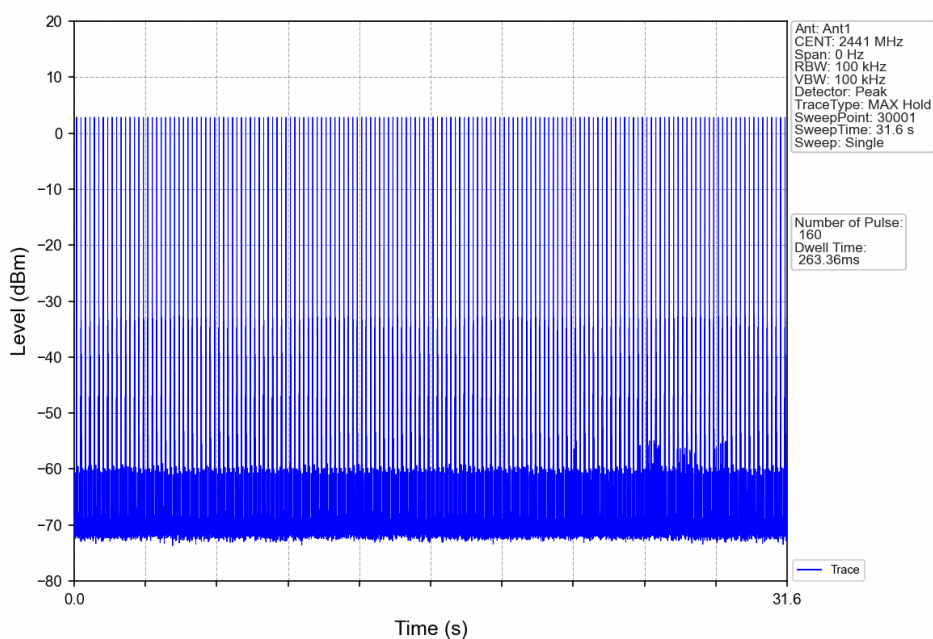
5.2 Test Graph



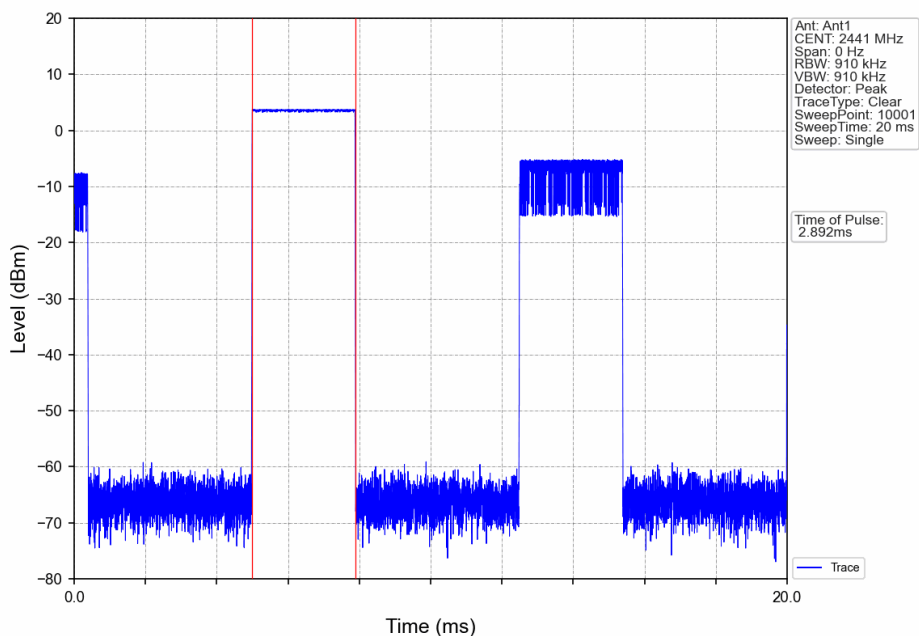
GFSK_DH3_HOPP_Ant1_NTNV



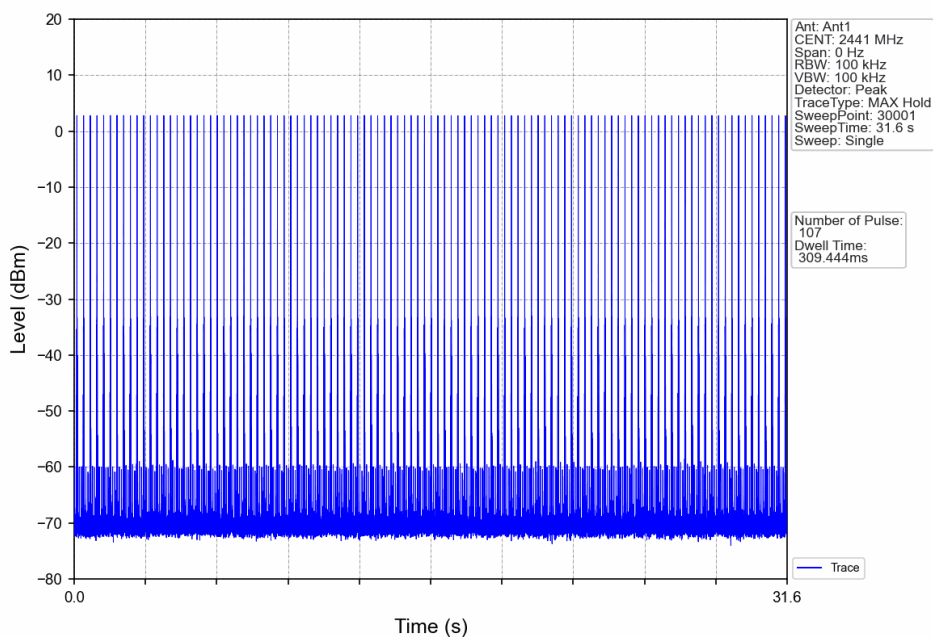
GFSK_DH3_HOPP_Ant1_NTNV



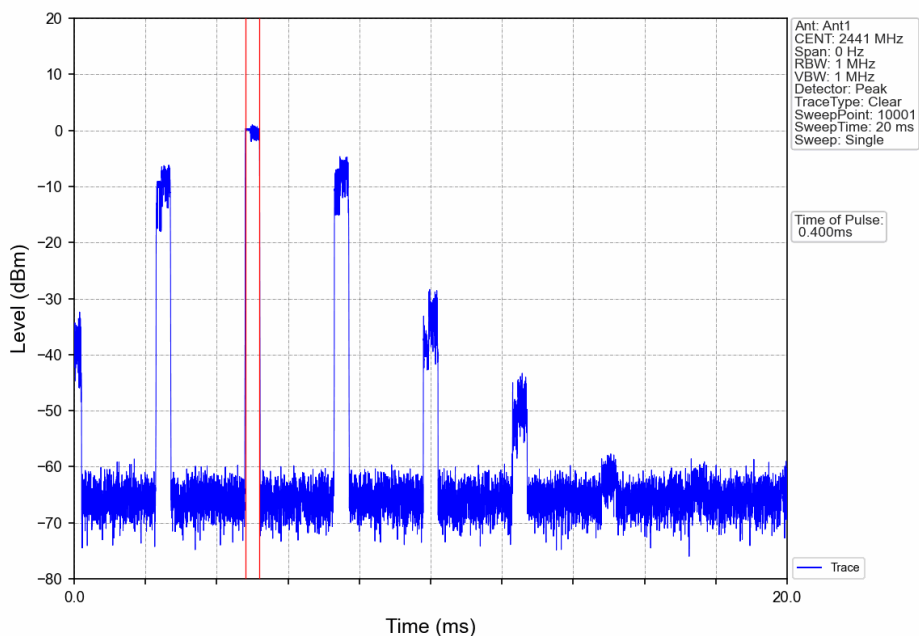
GFSK_DH5_HOPP_Ant1_NTNV



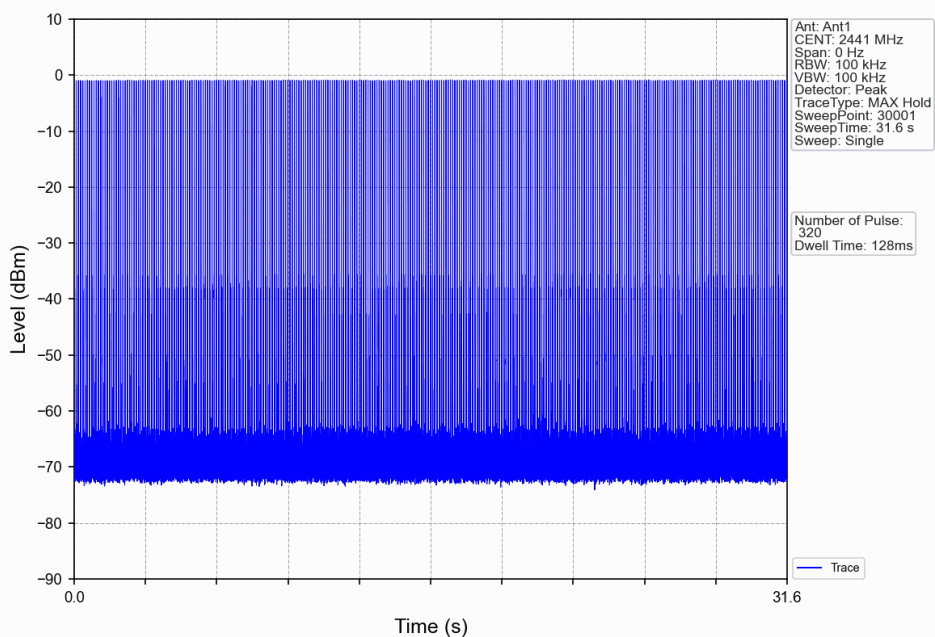
GFSK_DH5_HOPP_Ant1_NTNV



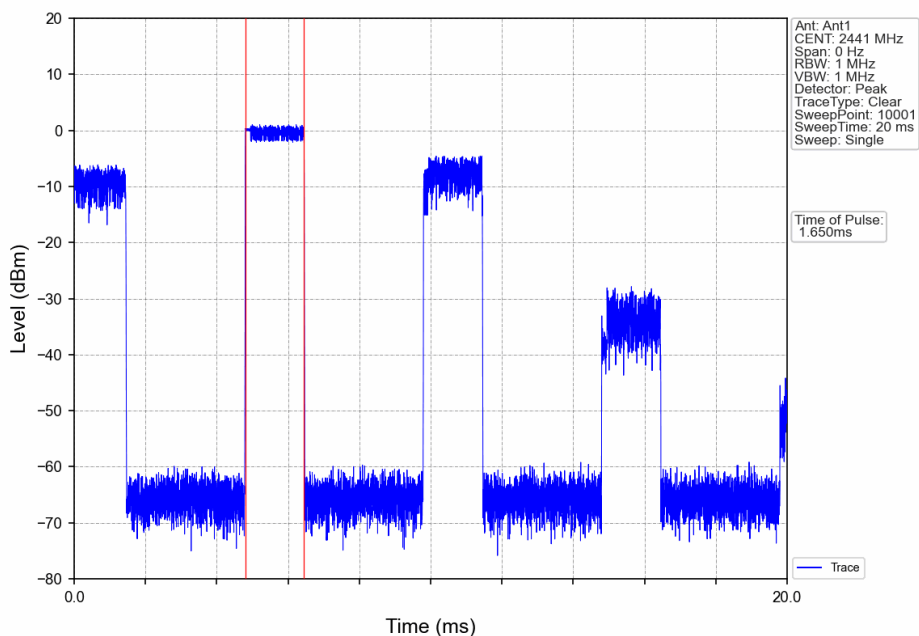
$\pi/4$ -DQPSK_2DH1_HOPP_Ant1_NTNV



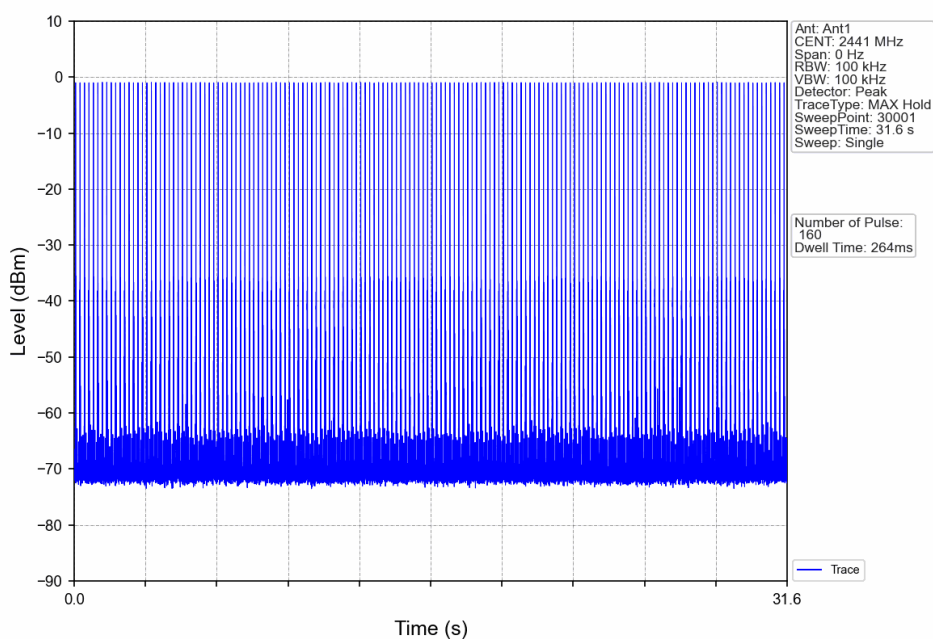
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



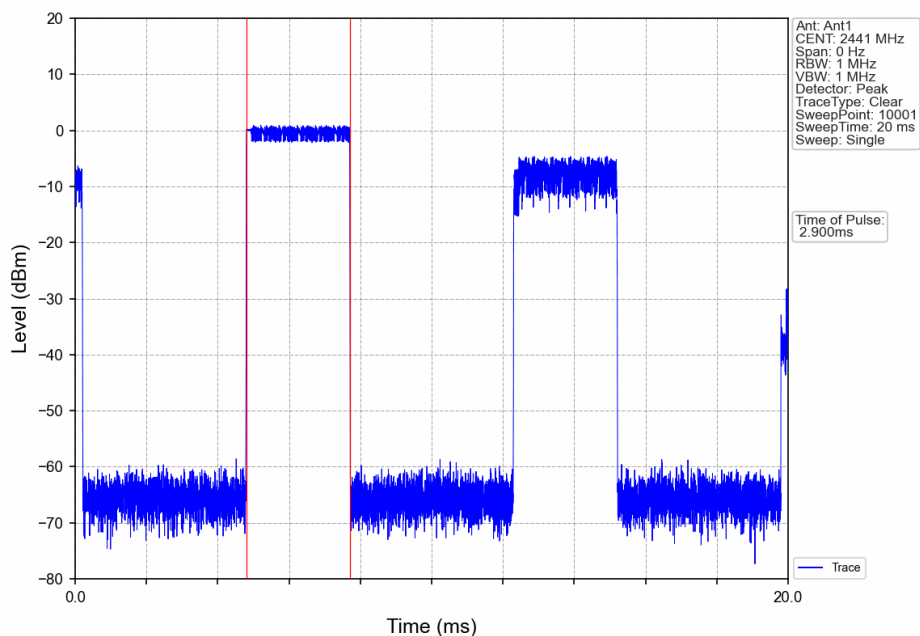
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



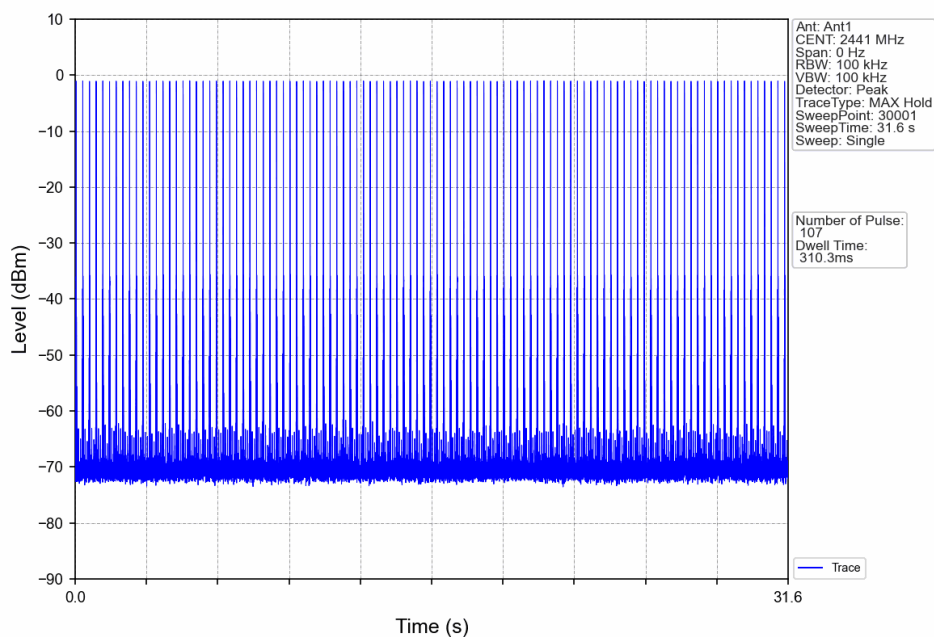
$\pi/4$ -DQPSK_2DH3_HOPP_Ant1_NTNV



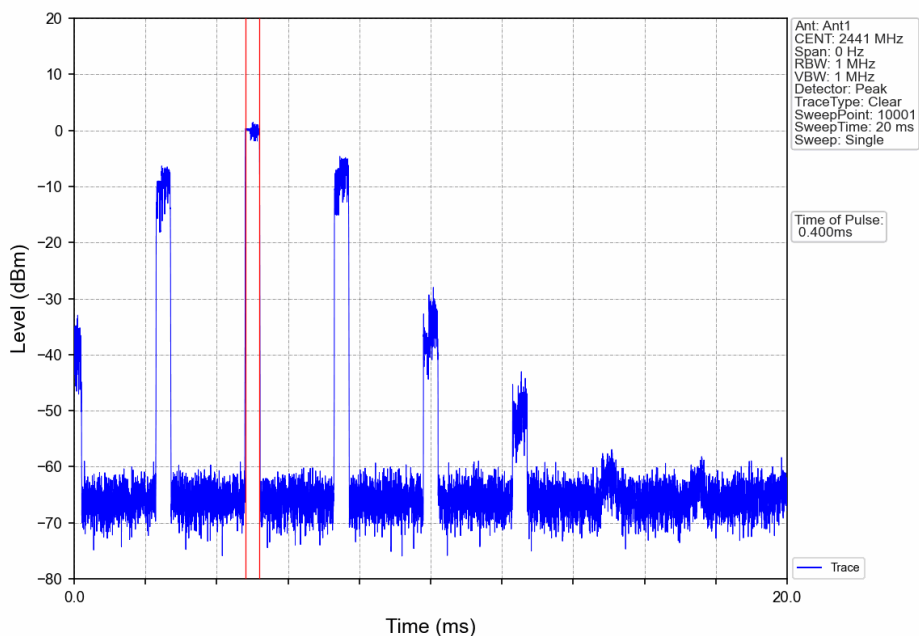
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



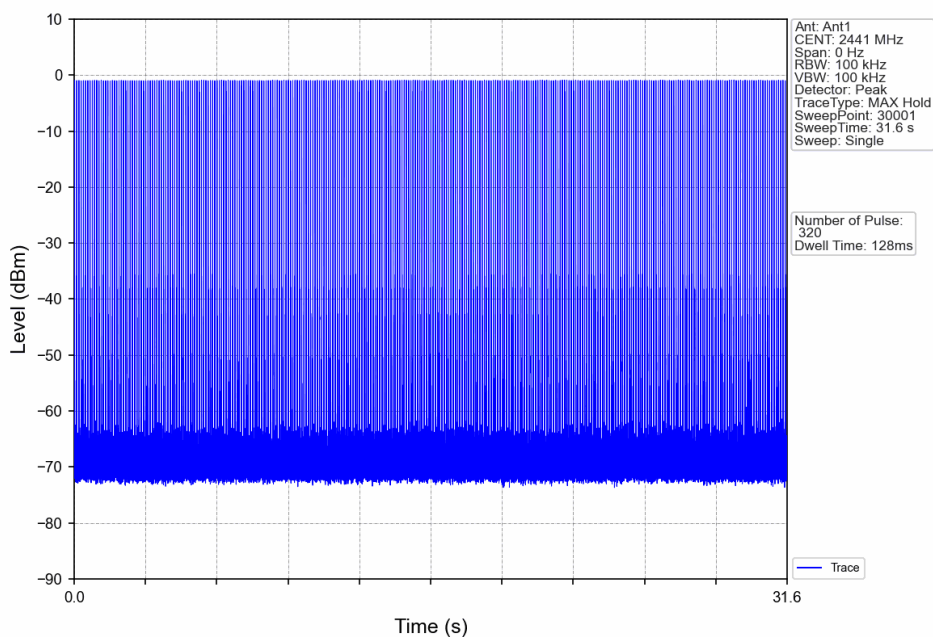
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



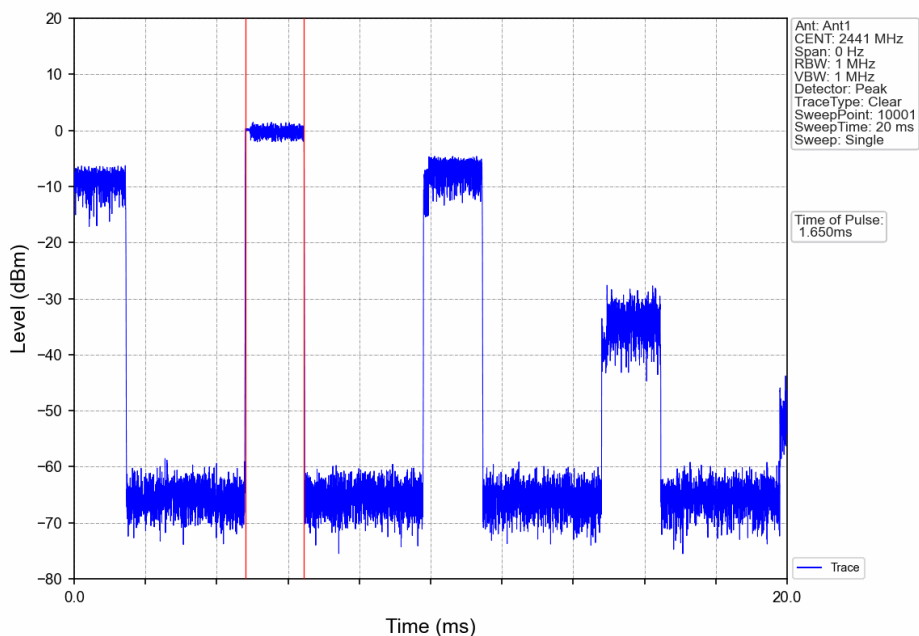
8-DPSK_3DH1_HOPP_Ant1_NTNV



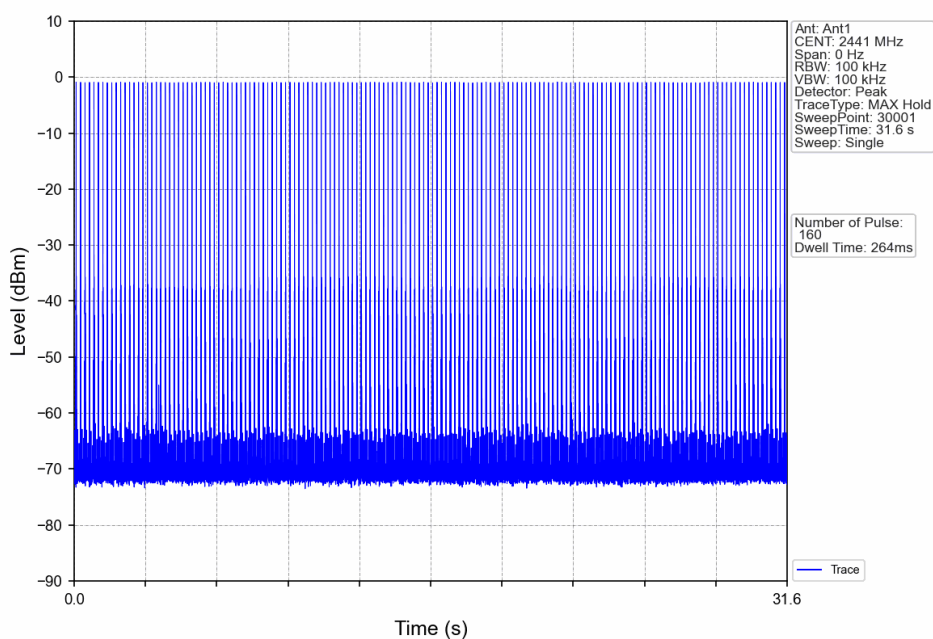
8-DPSK_3DH1_HOPP_Ant1_NTNV



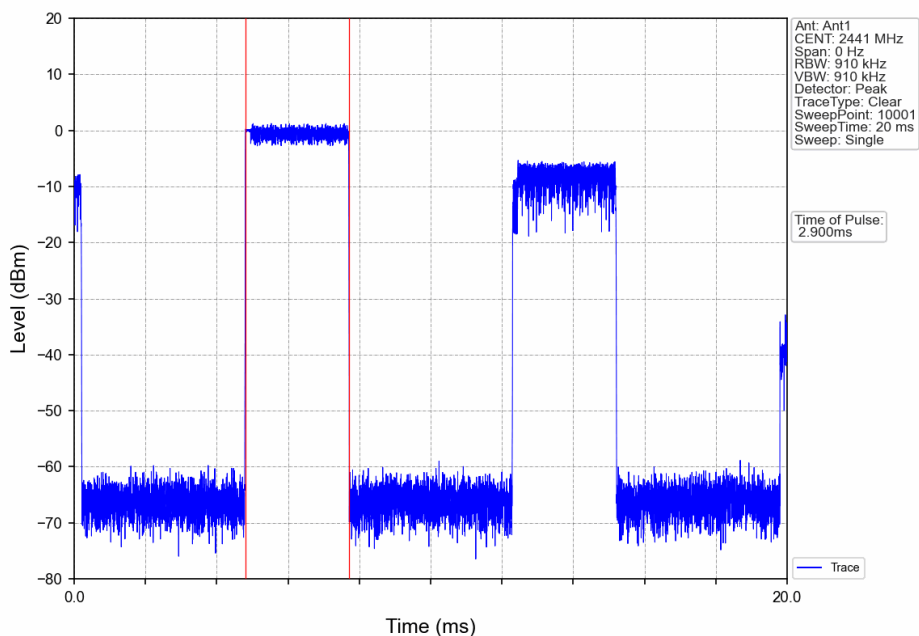
8-DPSK_3DH3_HOPP_Ant1_NTNV



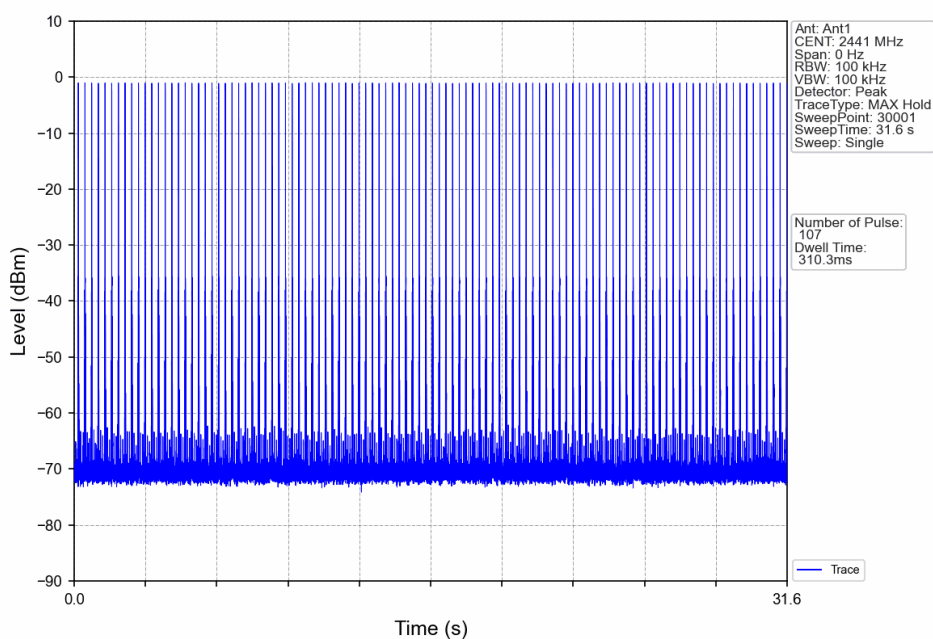
8-DPSK_3DH3_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

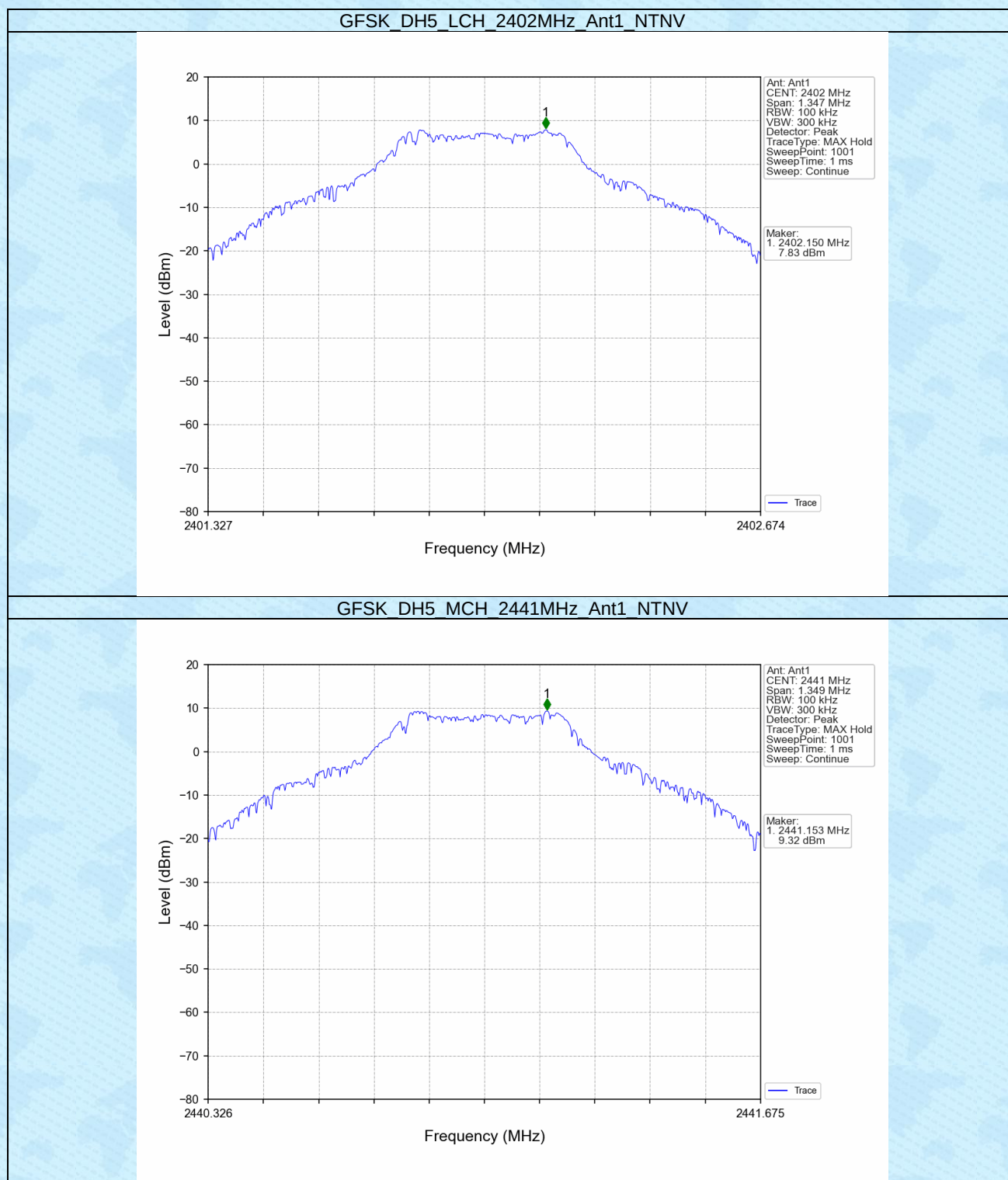
6.1 Ref

6.1.1 Test Result

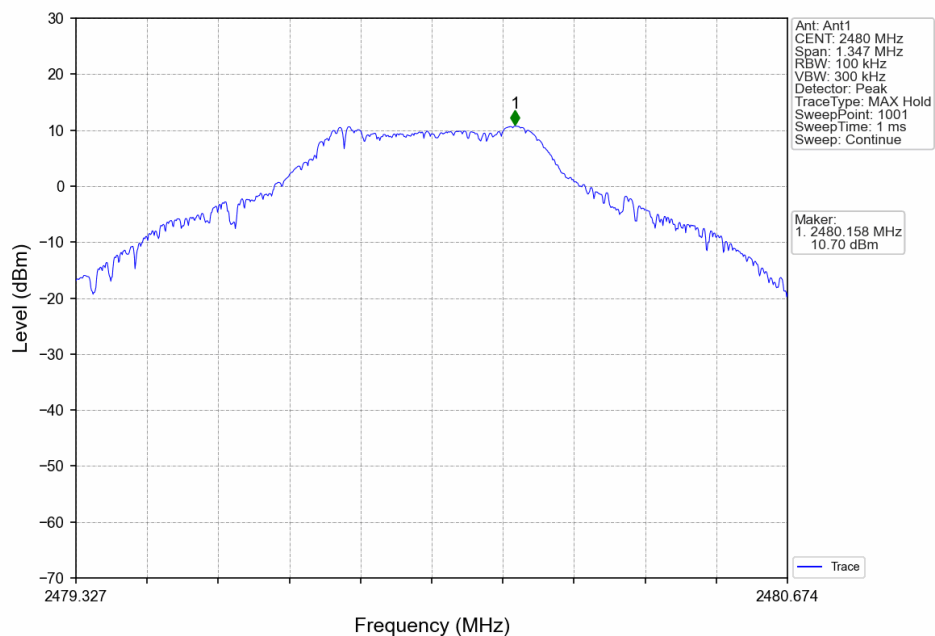
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	7.83
		2441	DH5	1	9.32
		2480	DH5	1	10.70
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	6.61
		2441	2DH5	1	6.16
		2480	2DH5	1	9.49
8-DPSK	SISO	2402	3DH5	1	6.85
		2441	3DH5	1	8.21
		2480	3DH5	1	9.73

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.

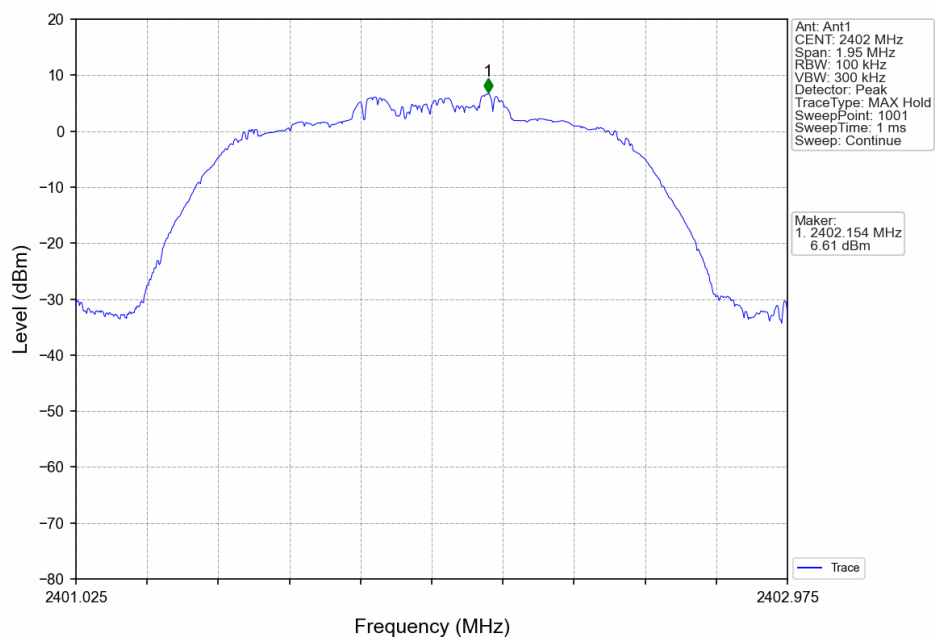
6.1.2 Test Graph



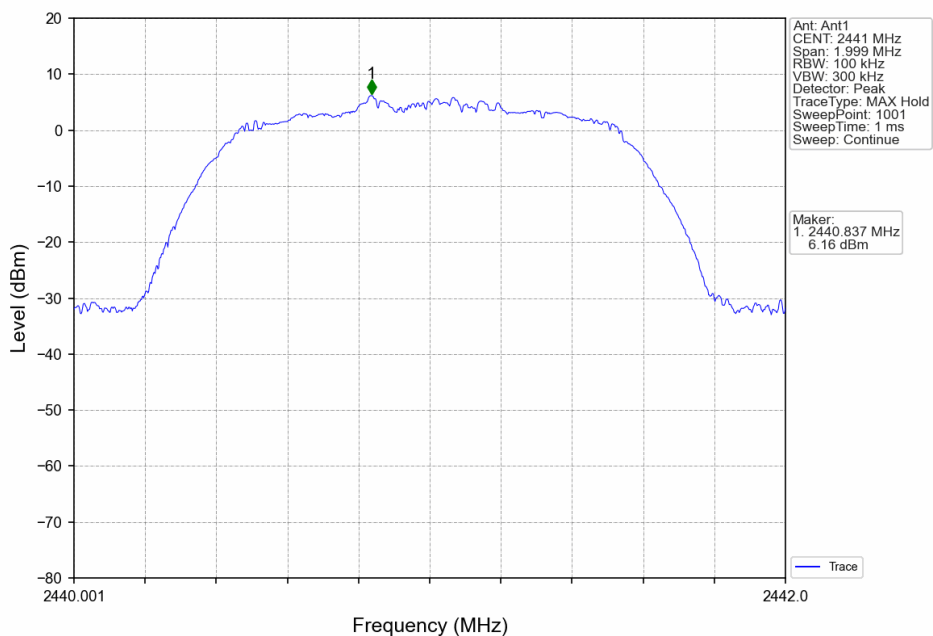
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



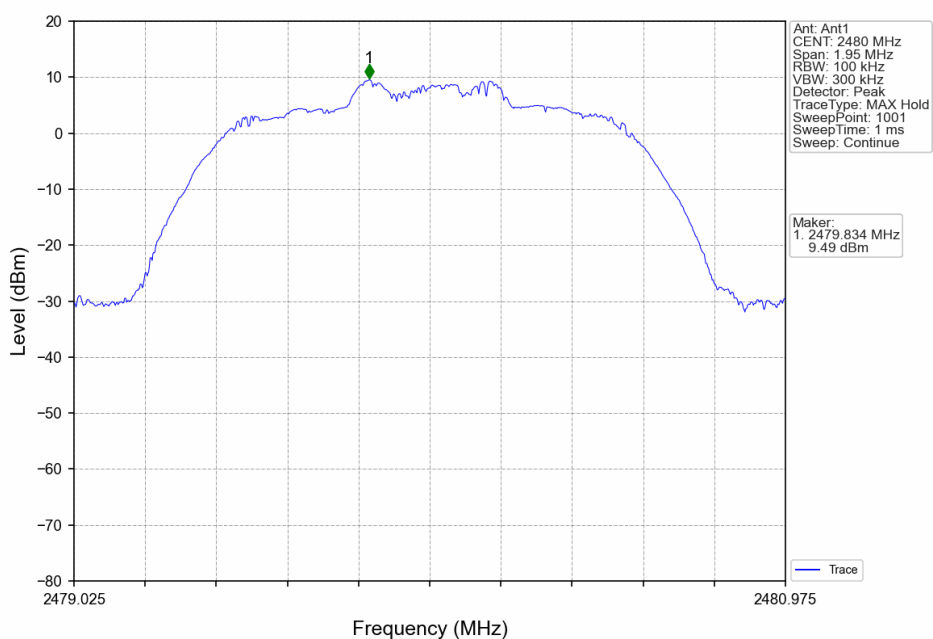
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



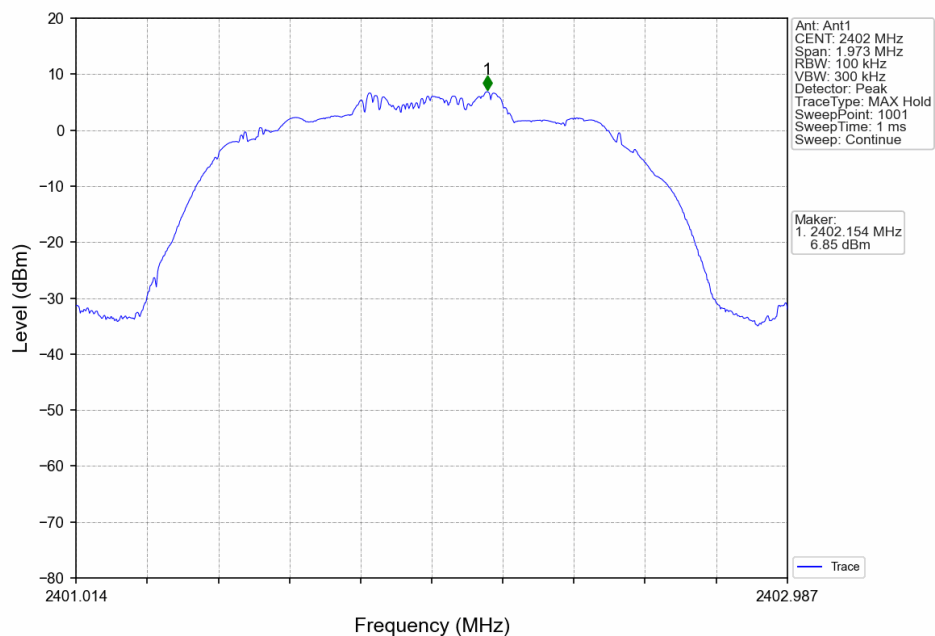
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



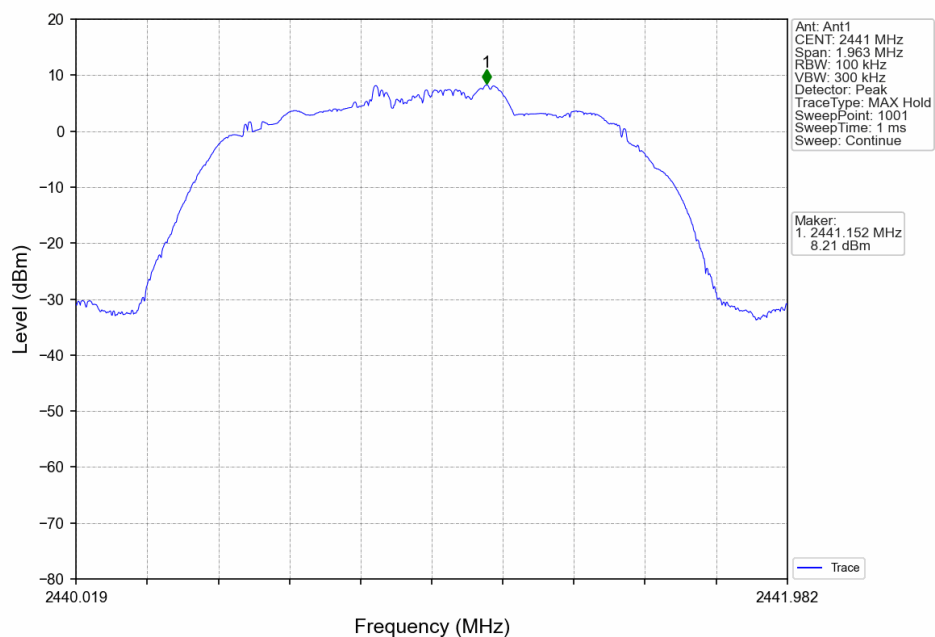
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

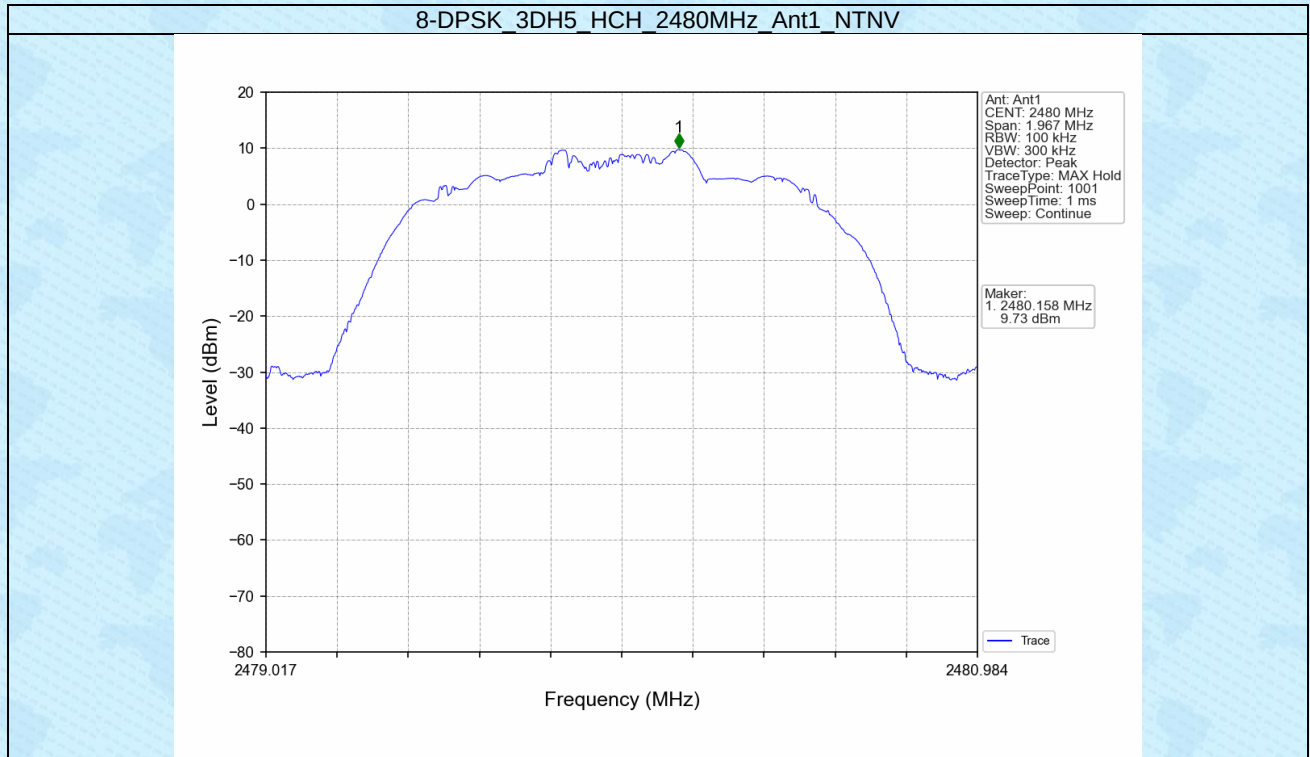


8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





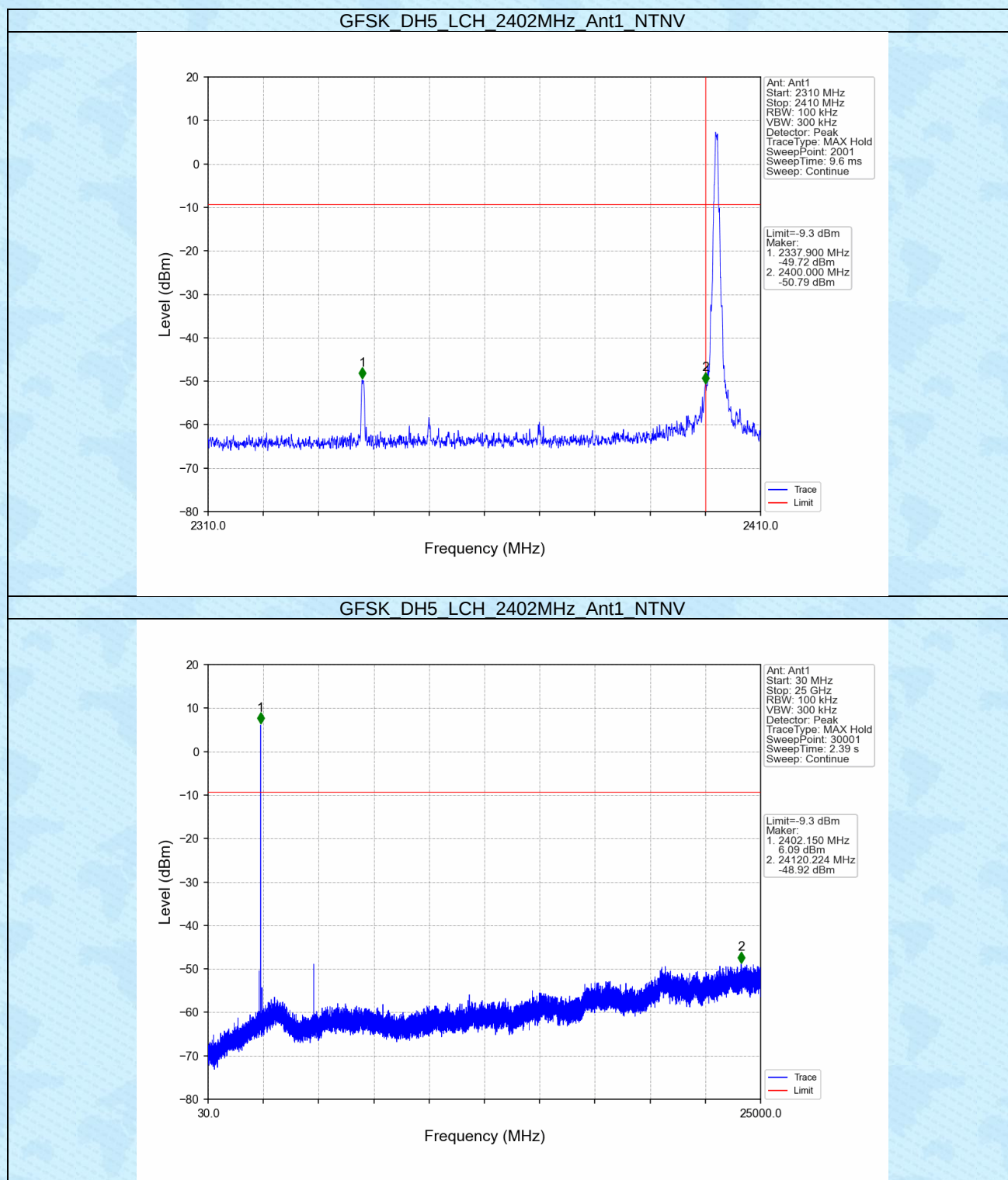
6.2 CSE

6.2.1 Test Result

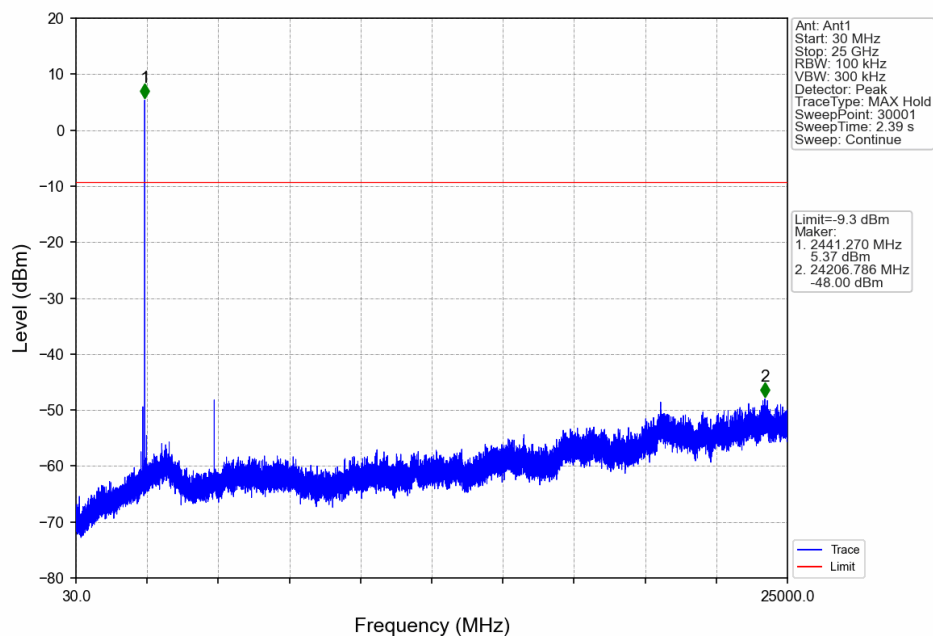
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	10.70	-9.30	Pass
		2441	DH5	1	10.70	-9.30	Pass
		2480	DH5	1	10.70	-9.30	Pass
		HOPP	DH5	1	10.70	-9.30	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	9.49	-10.51	Pass
		2441	2DH5	1	9.49	-10.51	Pass
		2480	2DH5	1	9.49	-10.51	Pass
		HOPP	2DH5	1	9.49	-10.51	Pass
8-DPSK	SISO	2402	3DH5	1	9.73	-10.27	Pass
		2441	3DH5	1	9.73	-10.27	Pass
		2480	3DH5	1	9.73	-10.27	Pass
		HOPP	3DH5	1	9.73	-10.27	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.

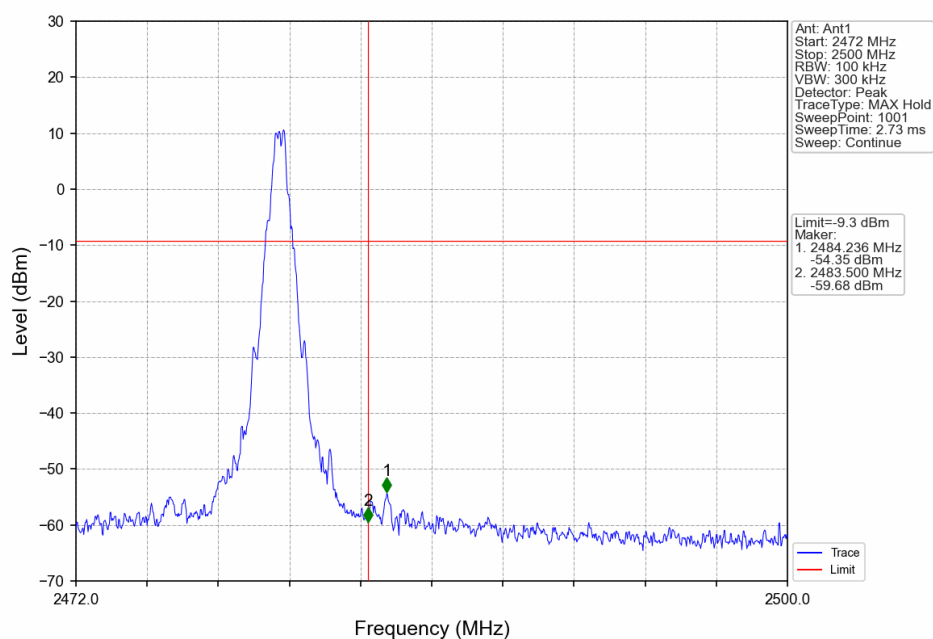
6.2.2 Test Graph



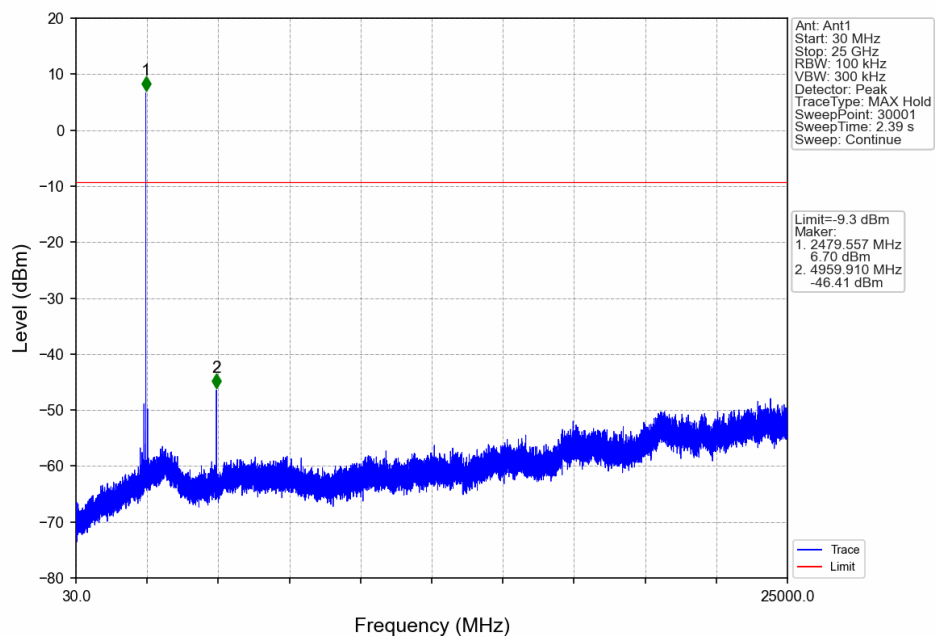
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



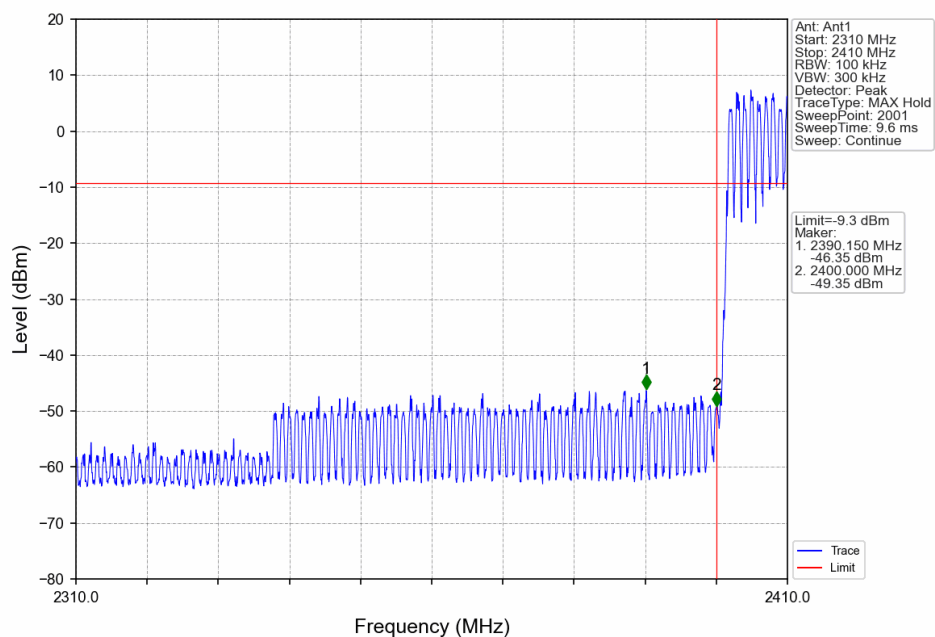
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



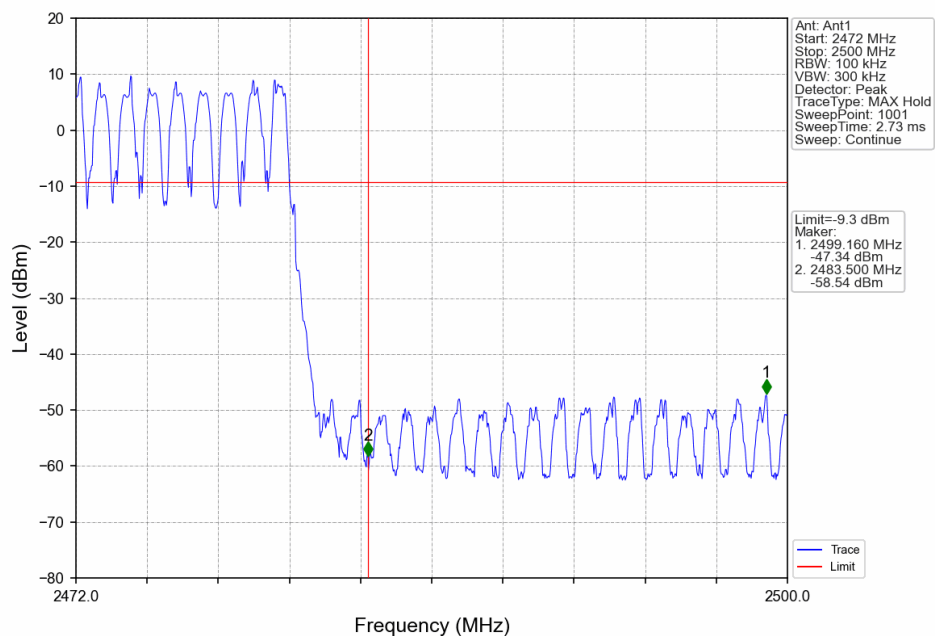
GFSK DH5 HCH 2480MHz_Ant1_NTNV



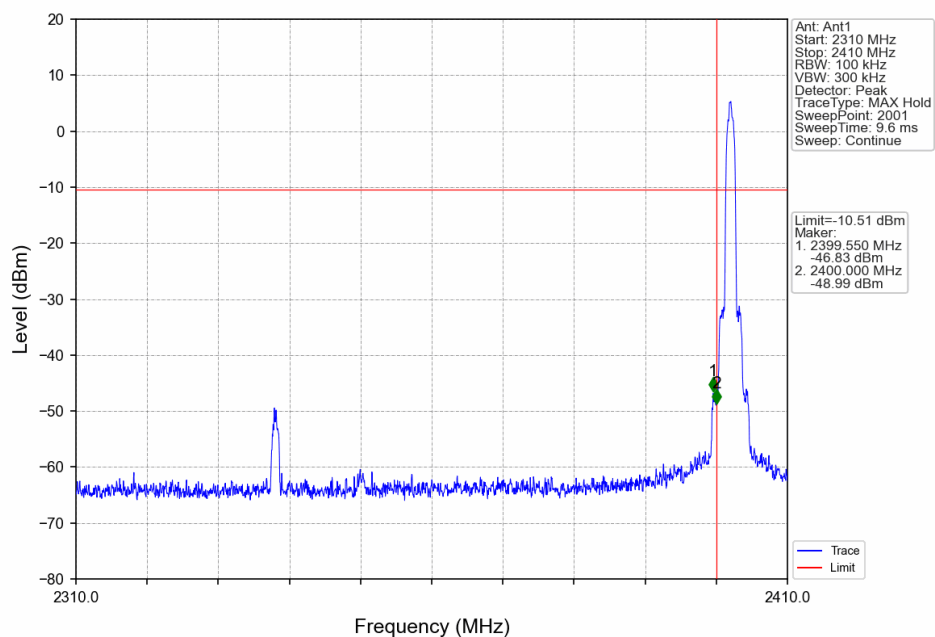
GFSK DH5 HOPP Ant1_NTNV



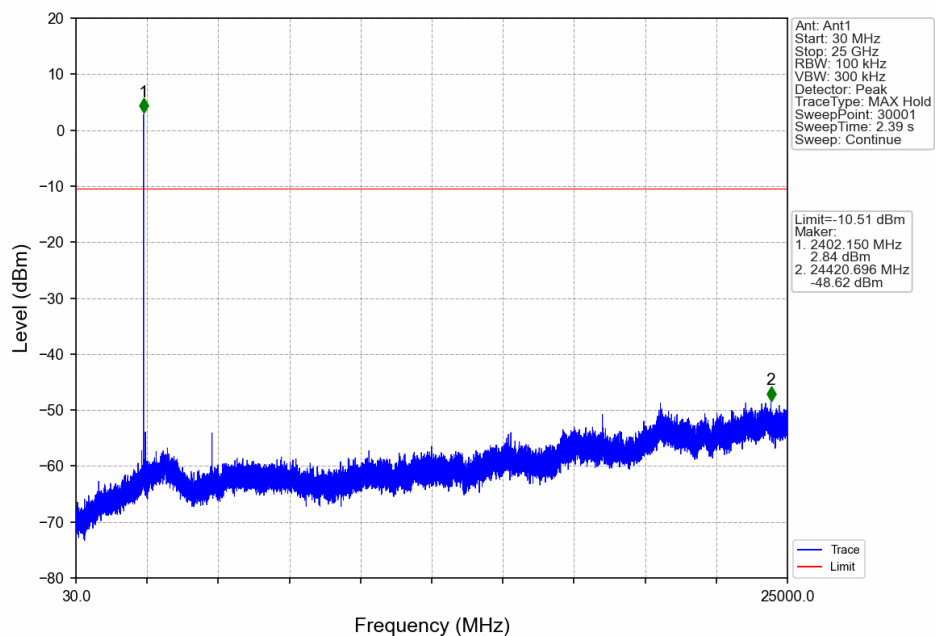
GFSK_DH5_HOPP_Ant1_NTNV



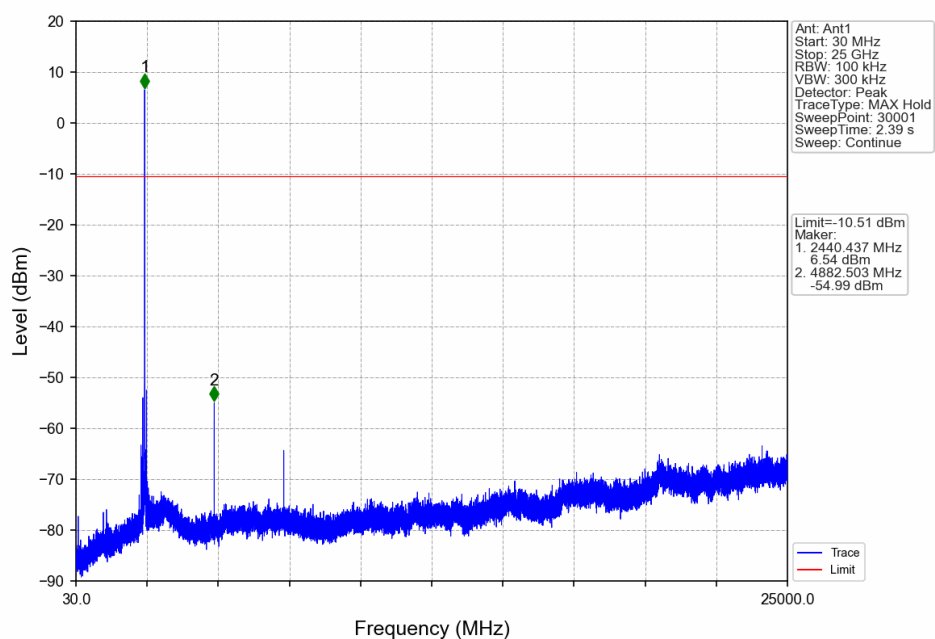
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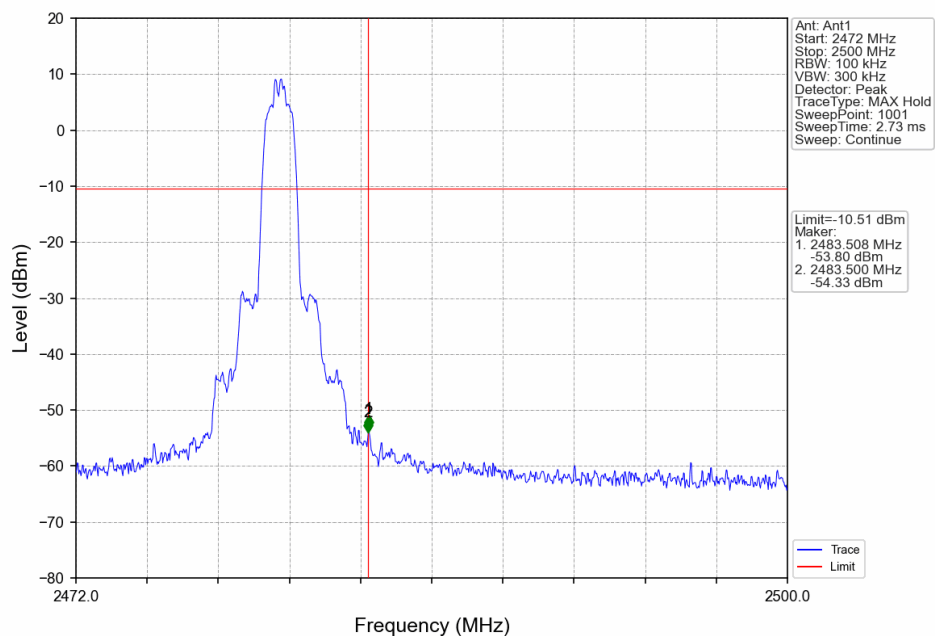
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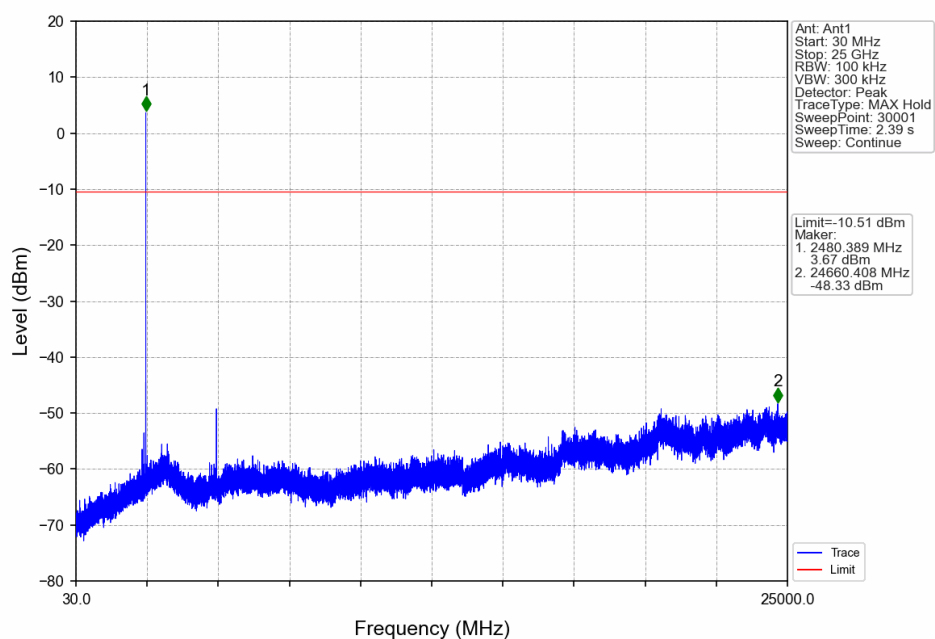
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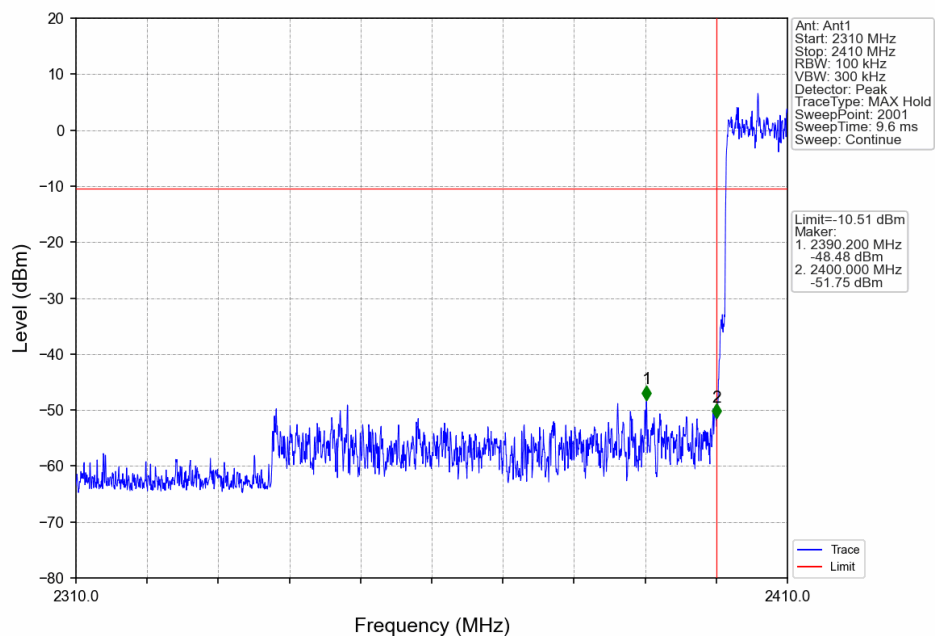
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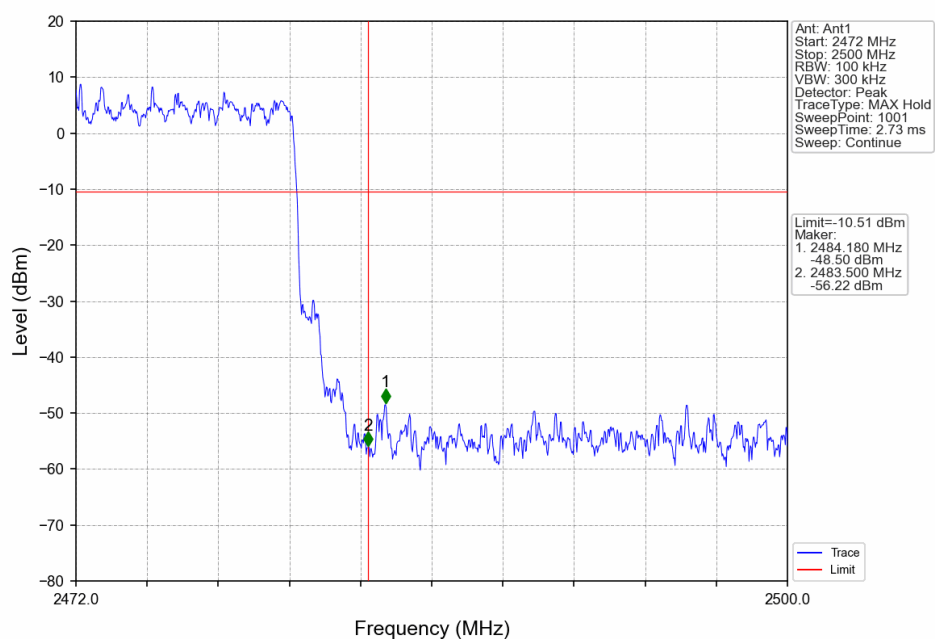
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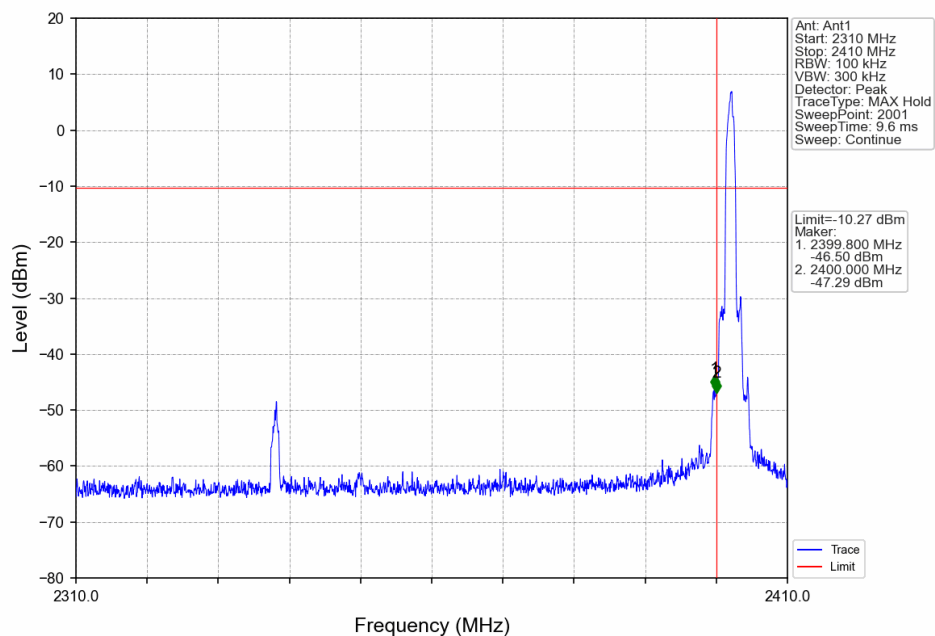
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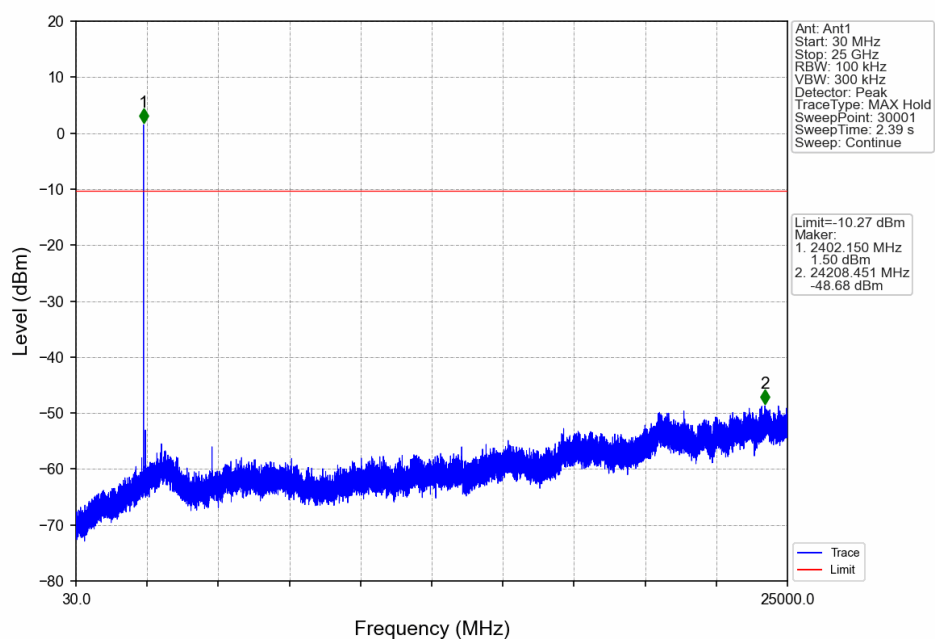
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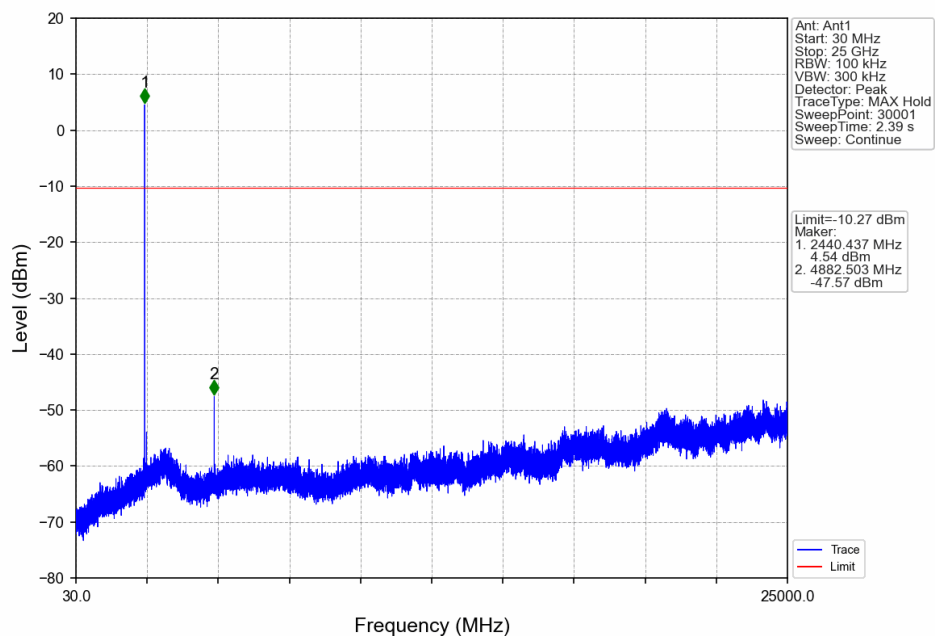
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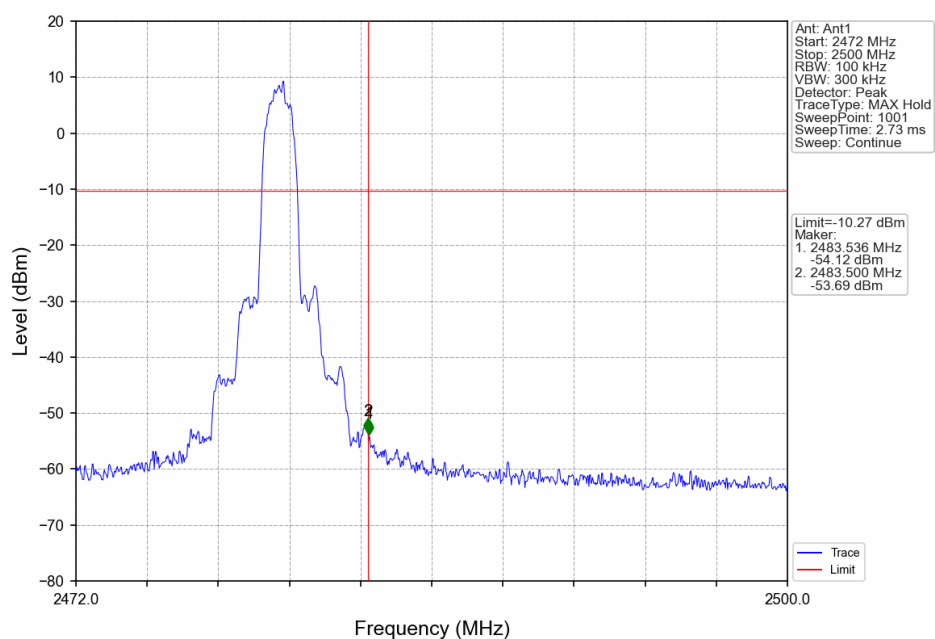
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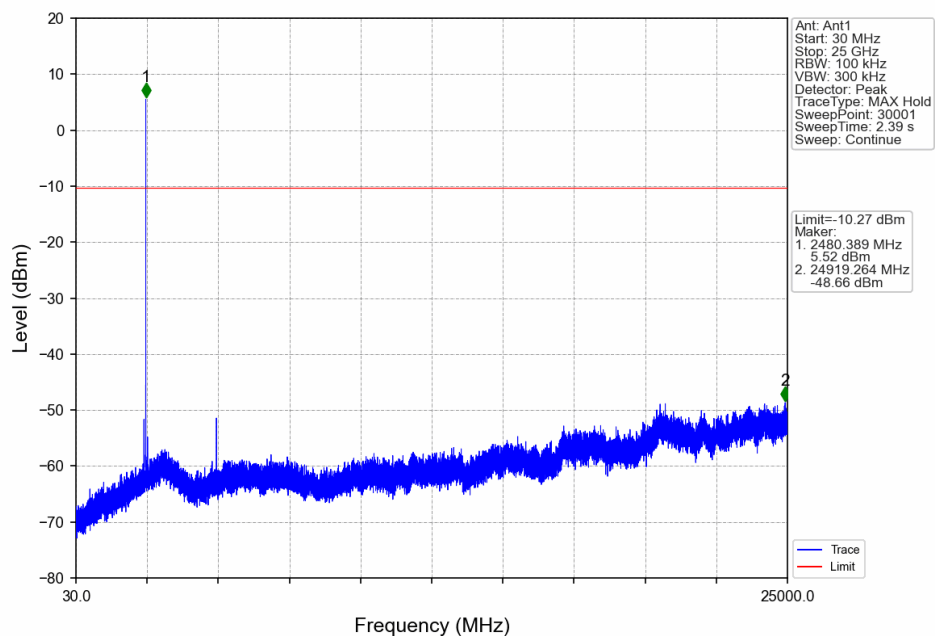
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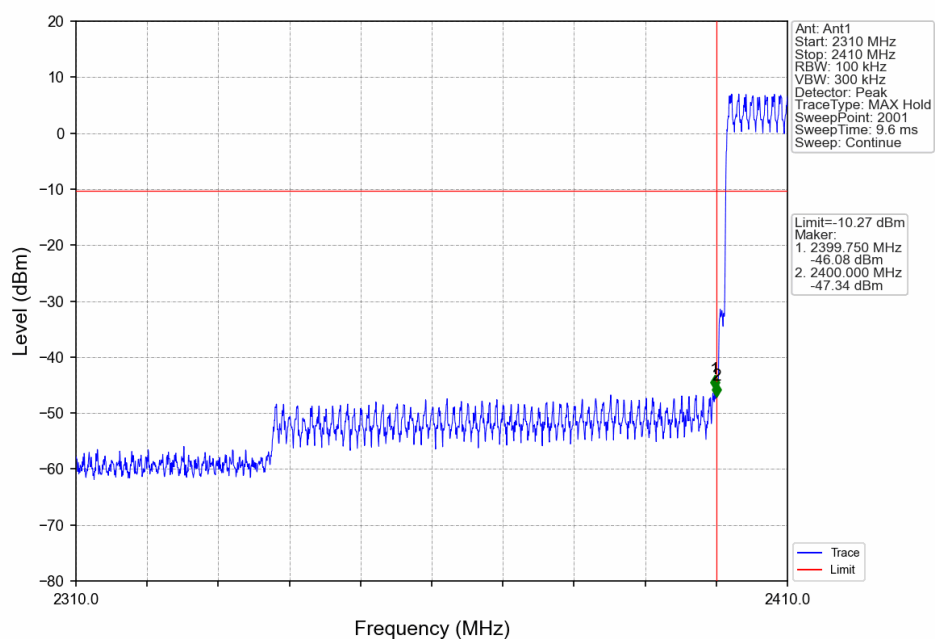
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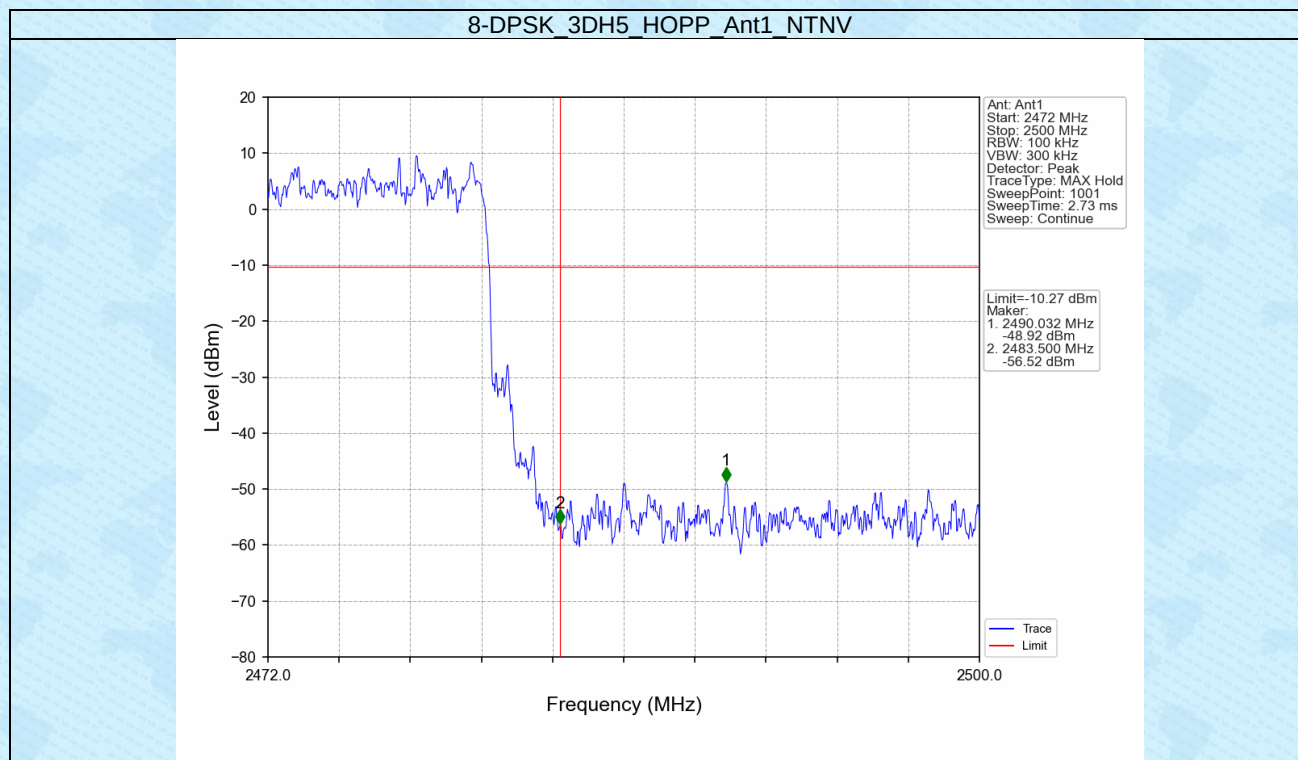


8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV





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