1. Bandwidth

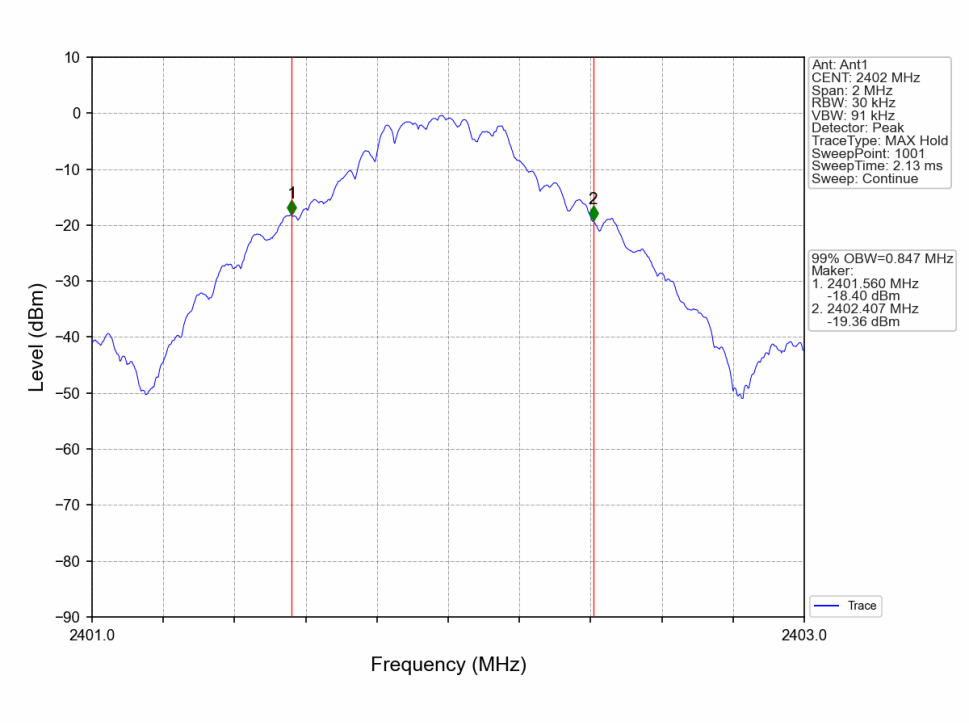
1.1 OBW

1.1.1 Test Result

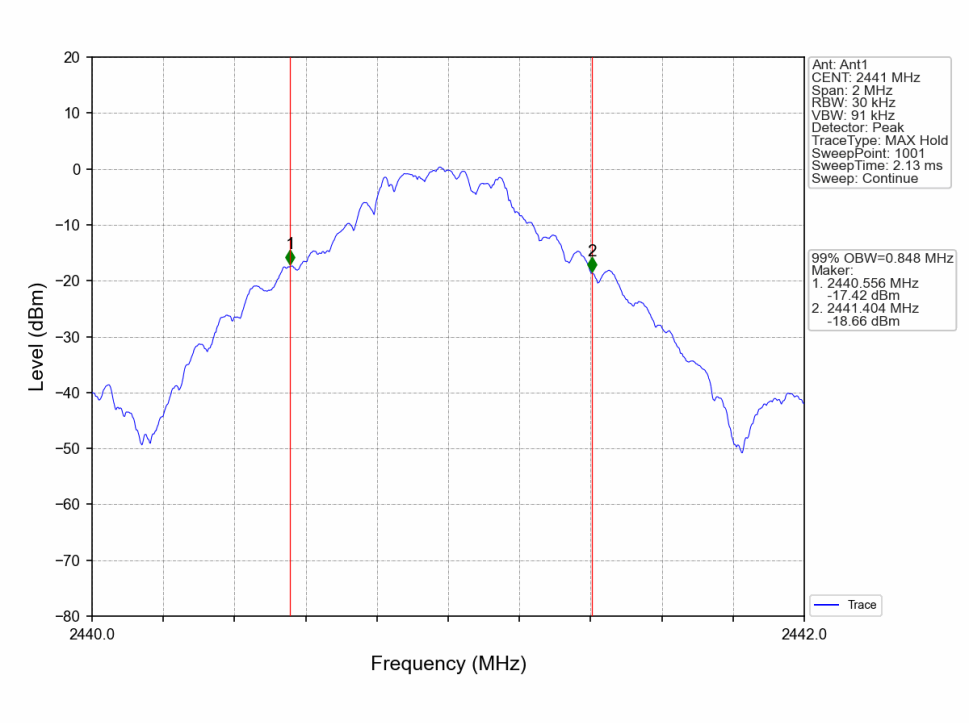
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.847	/	Pass
		2441	DH5	1	0.848	/	Pass
		2480	DH5	1	0.849	/	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.169	/	Pass
		2441	2DH5	1	1.167	/	Pass
		2480	2DH5	1	1.168	/	Pass
8-DPSK	SISO	2402	3DH5	1	1.164	/	Pass
		2441	3DH5	1	1.165	/	Pass
		2480	3DH5	1	1.167	/	Pass

1.1.2 Test Graph

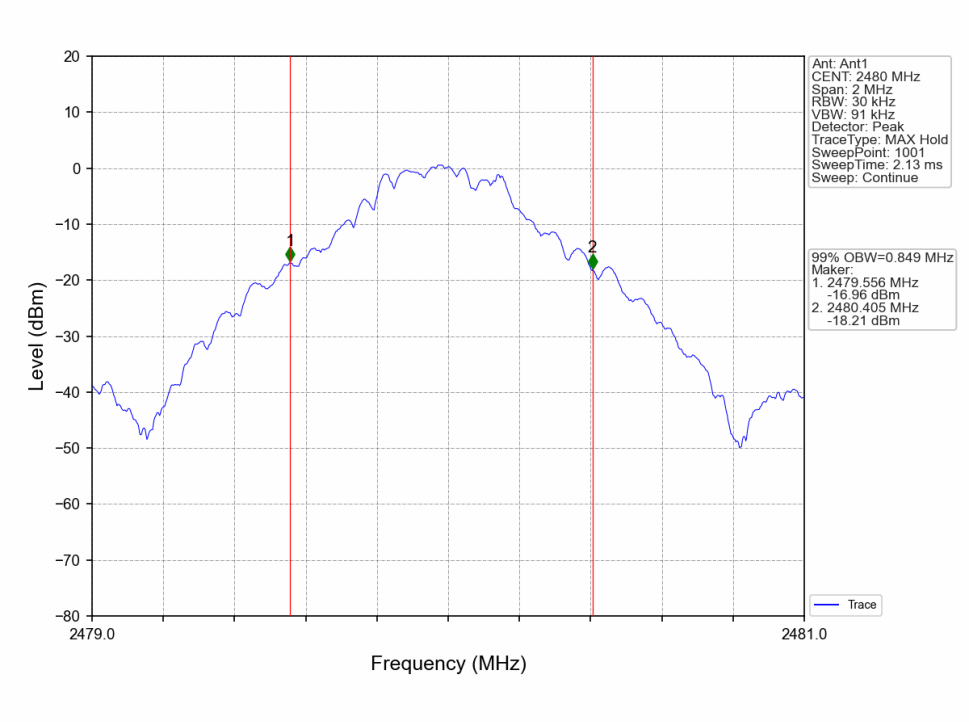
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



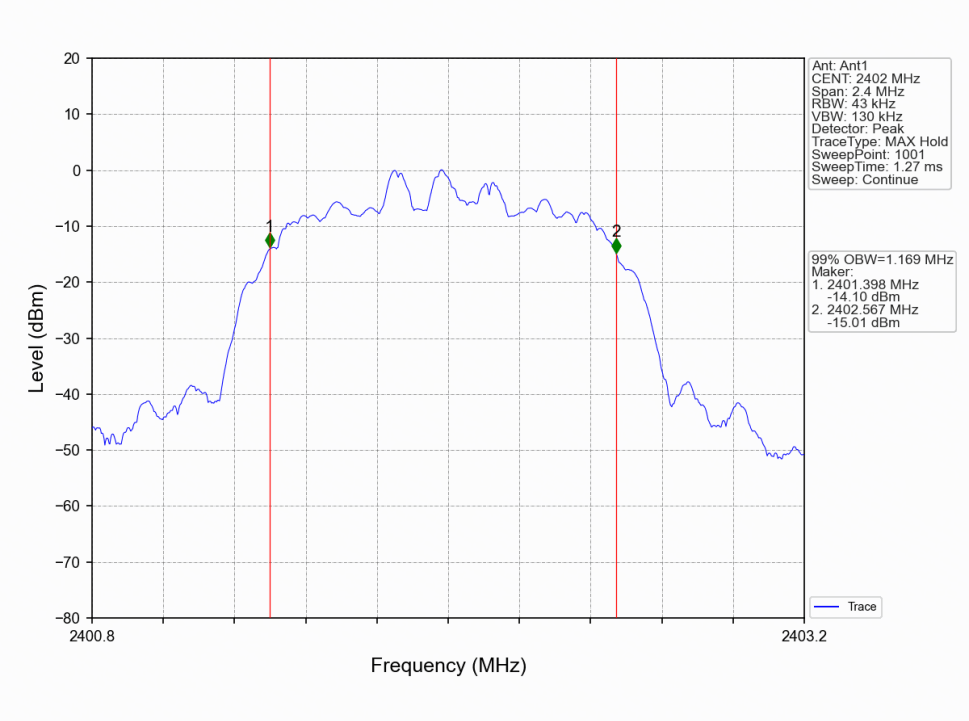
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



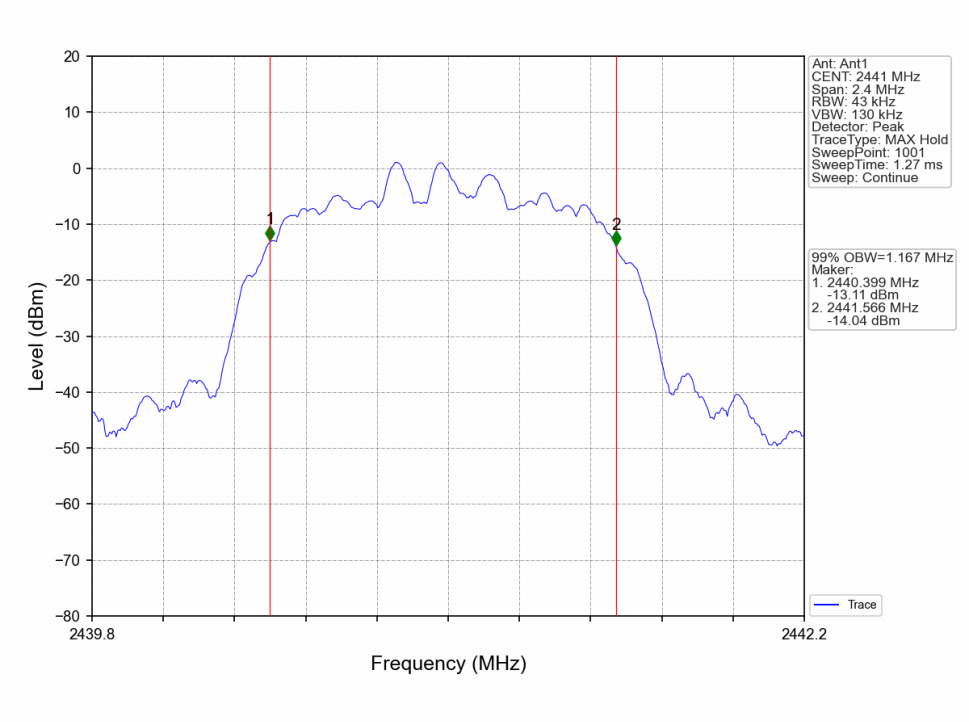
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



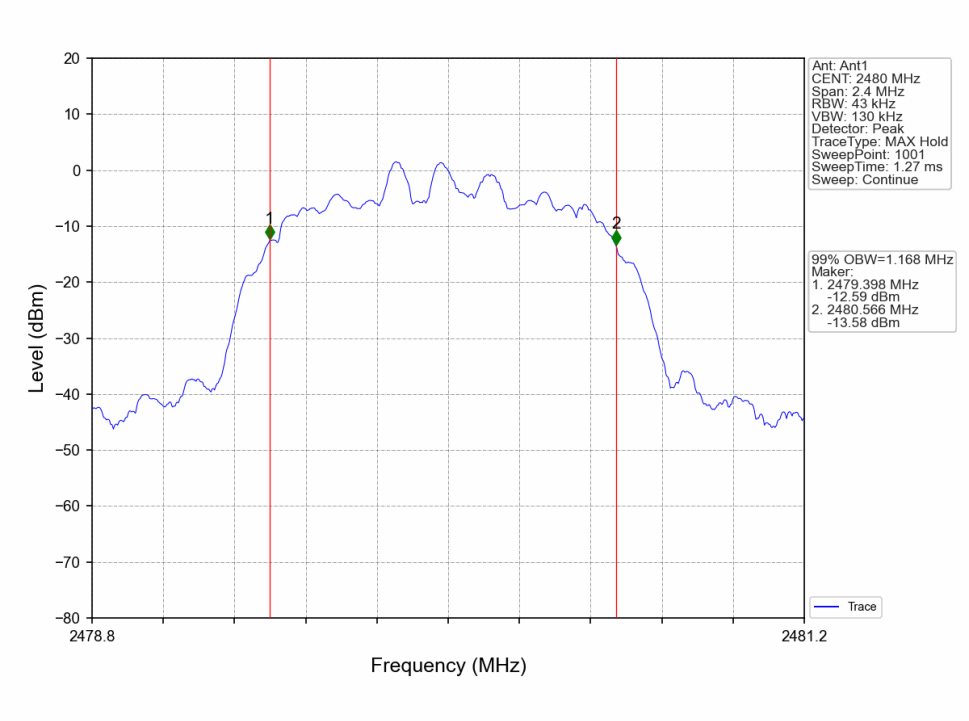
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



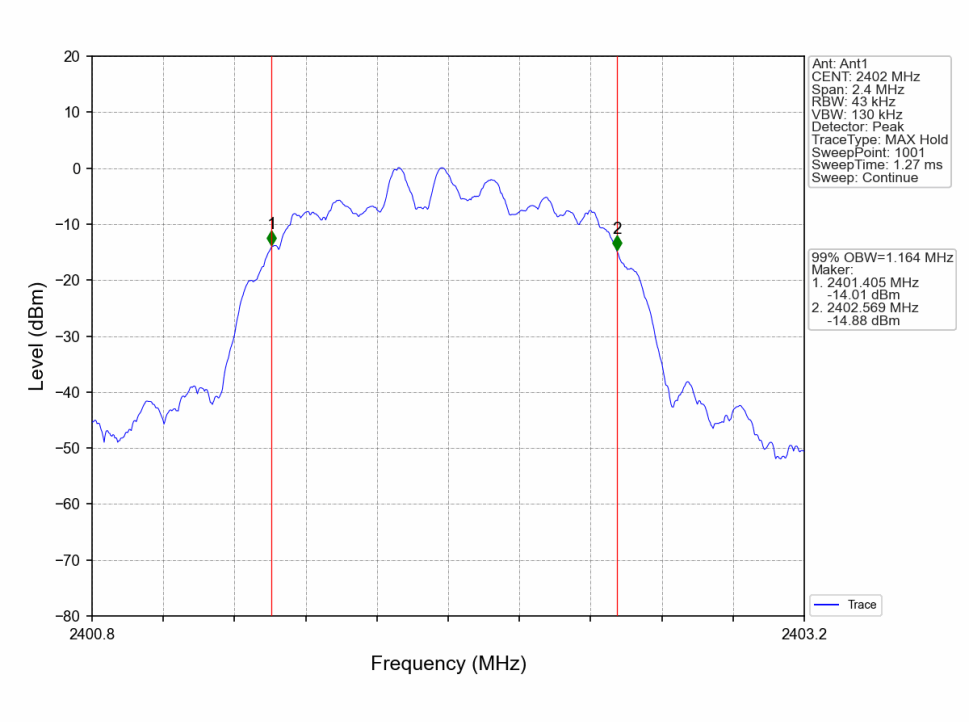
π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



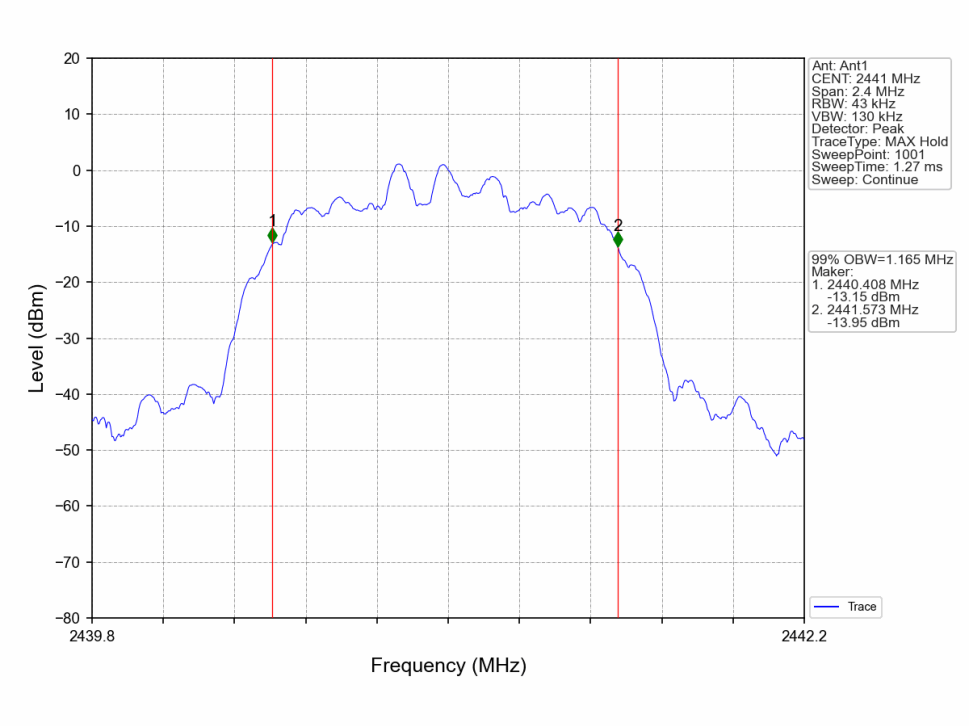
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



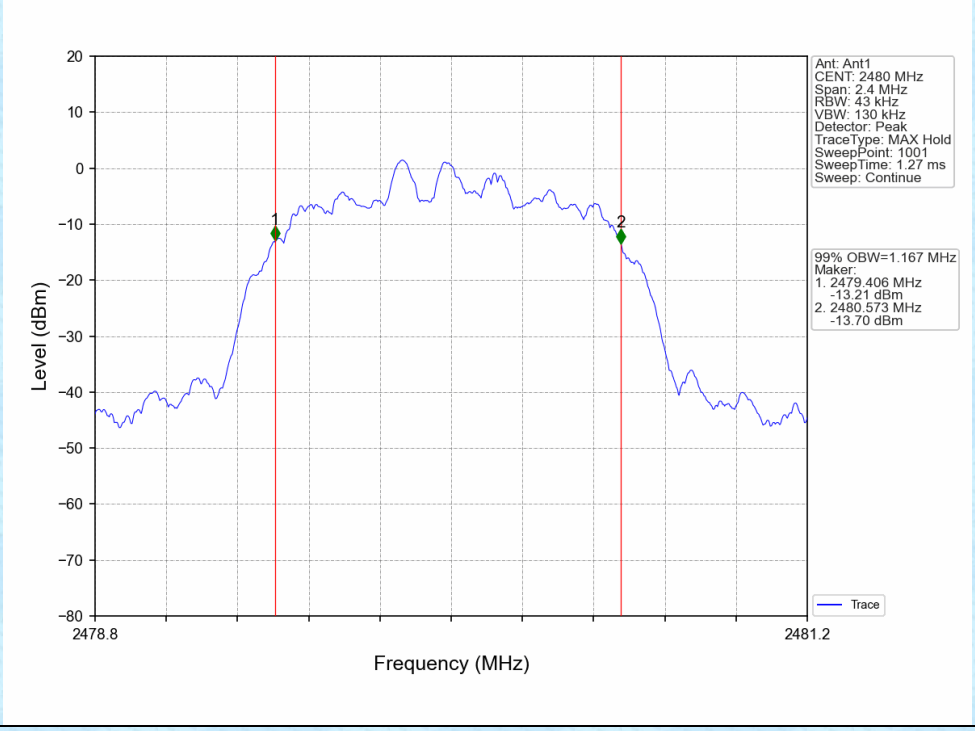
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



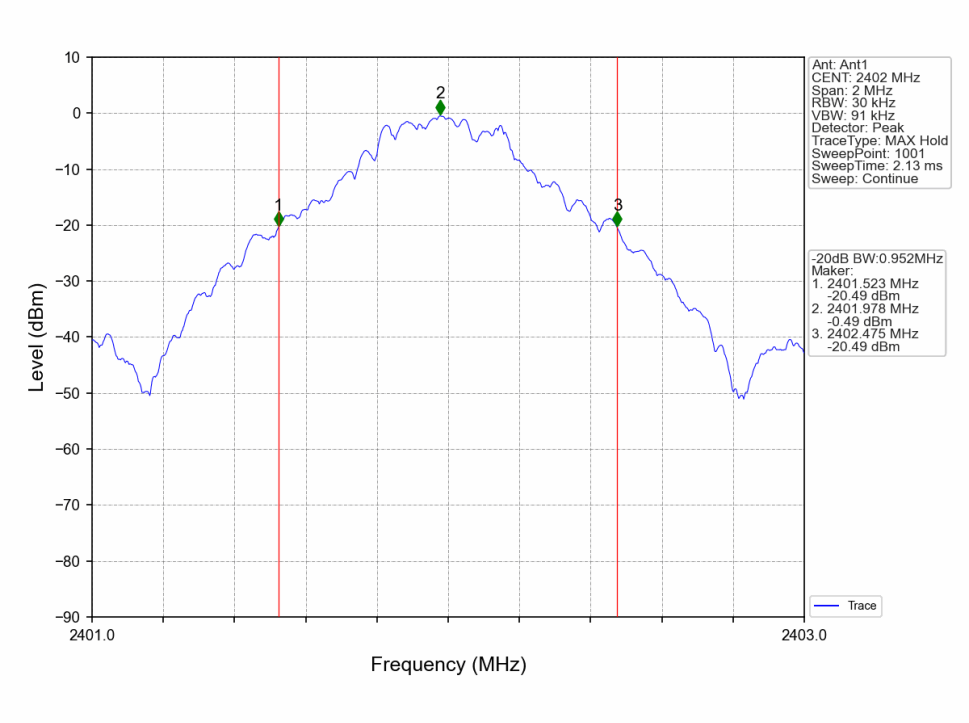
1.2 20dB BW

1.2.1 Test Result

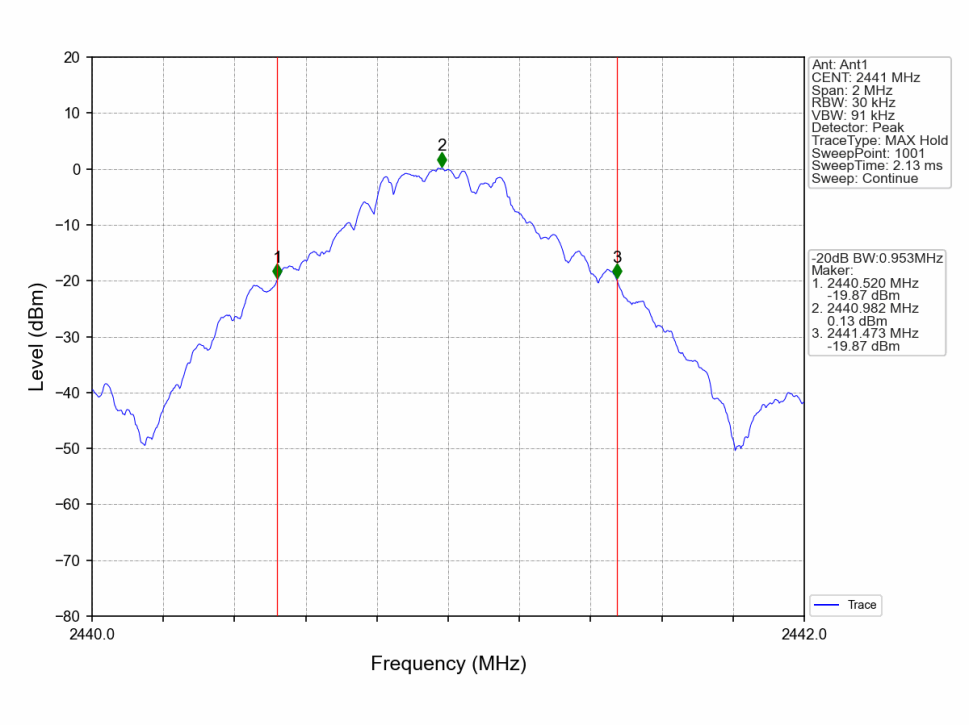
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.952	/	Pass
		2441	DH5	1	0.953	/	Pass
		2480	DH5	1	0.952	/	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.294	/	Pass
		2441	2DH5	1	1.296	/	Pass
		2480	2DH5	1	1.319	/	Pass
8-DPSK	SISO	2402	3DH5	1	1.289	/	Pass
		2441	3DH5	1	1.292	/	Pass
		2480	3DH5	1	1.296	/	Pass

1.2.2 Test Graph

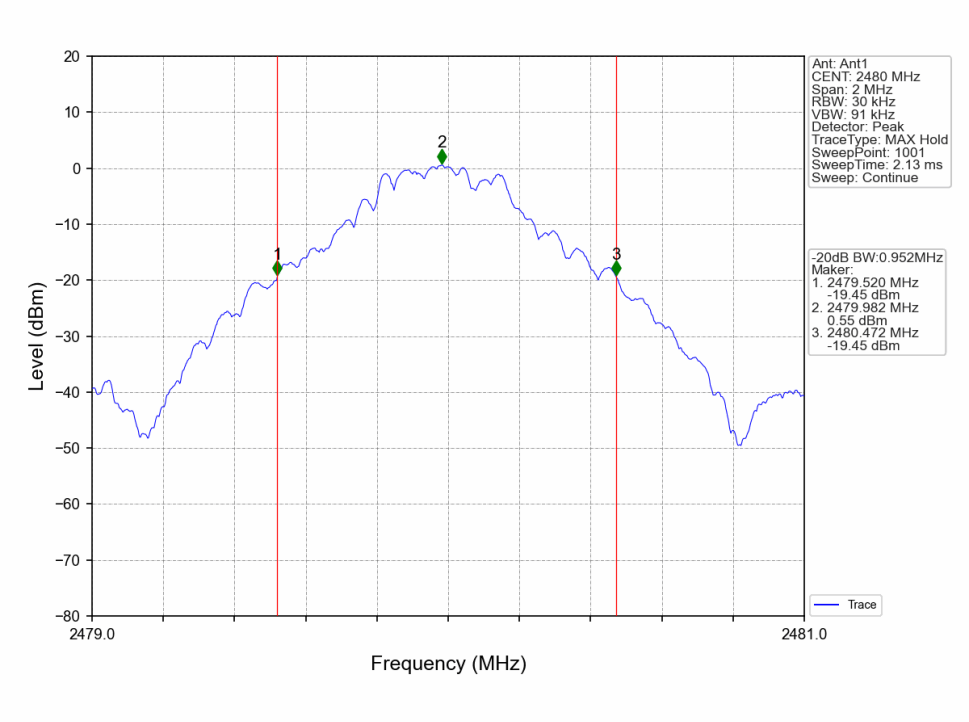
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



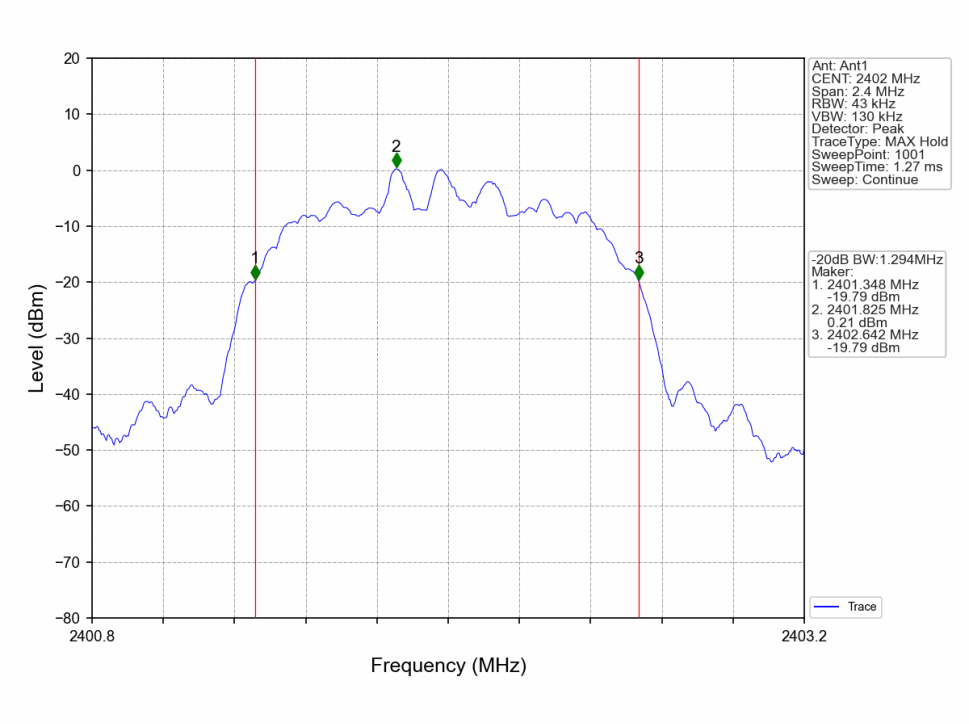
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



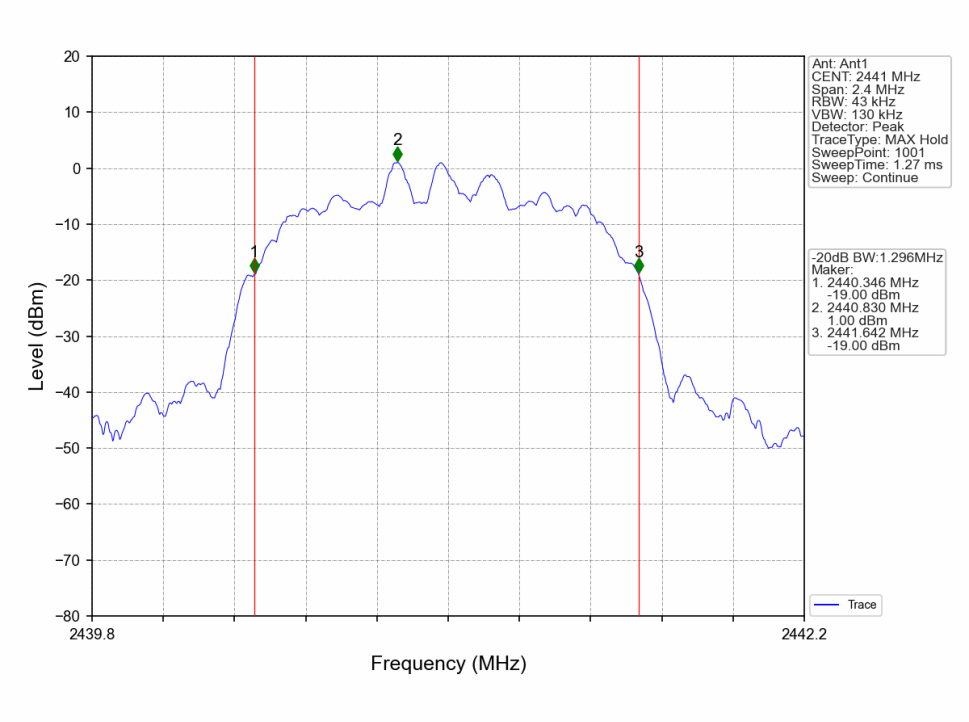
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



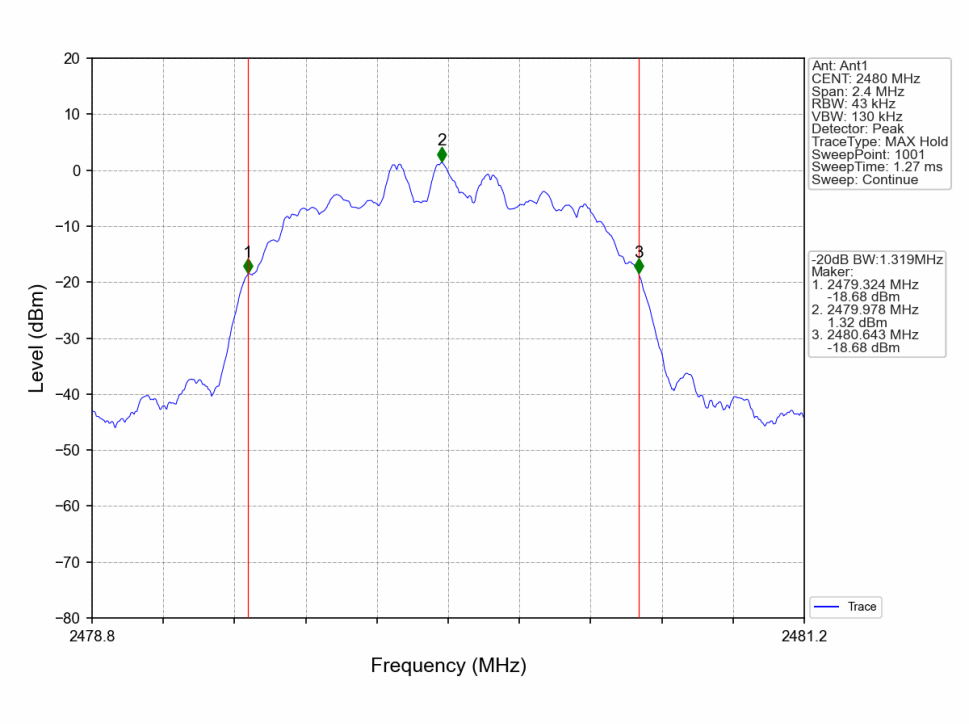
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



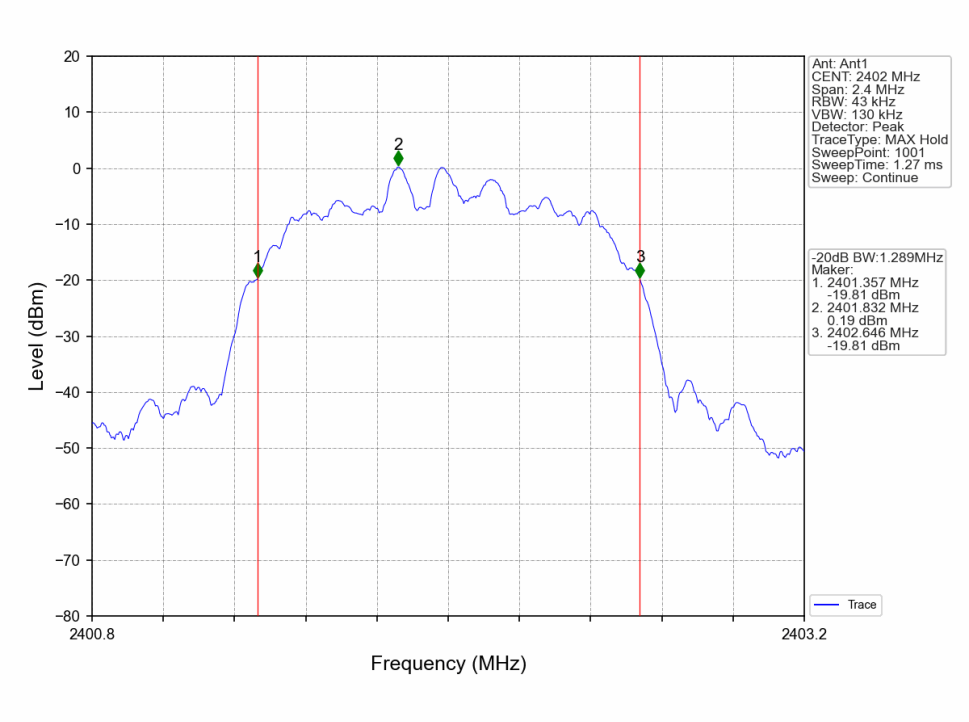
π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



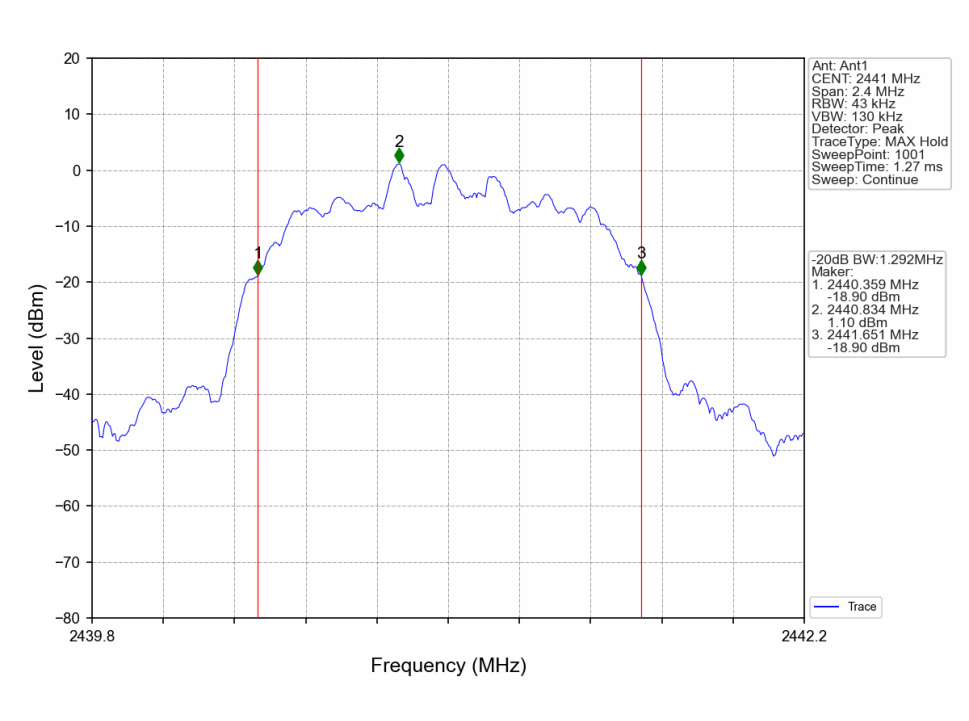
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



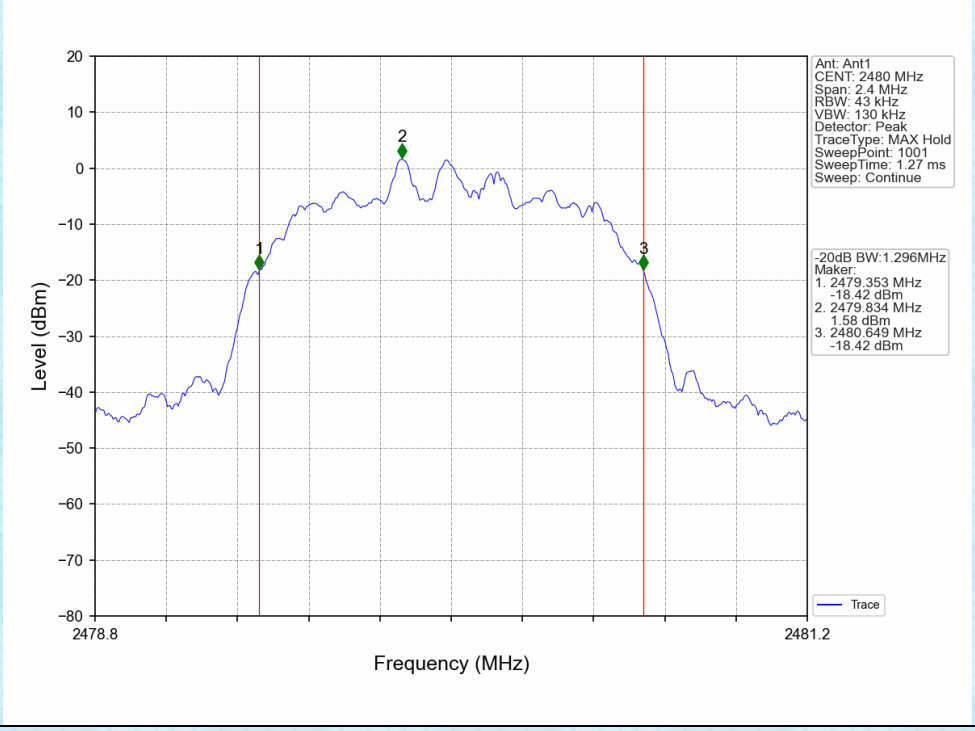
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



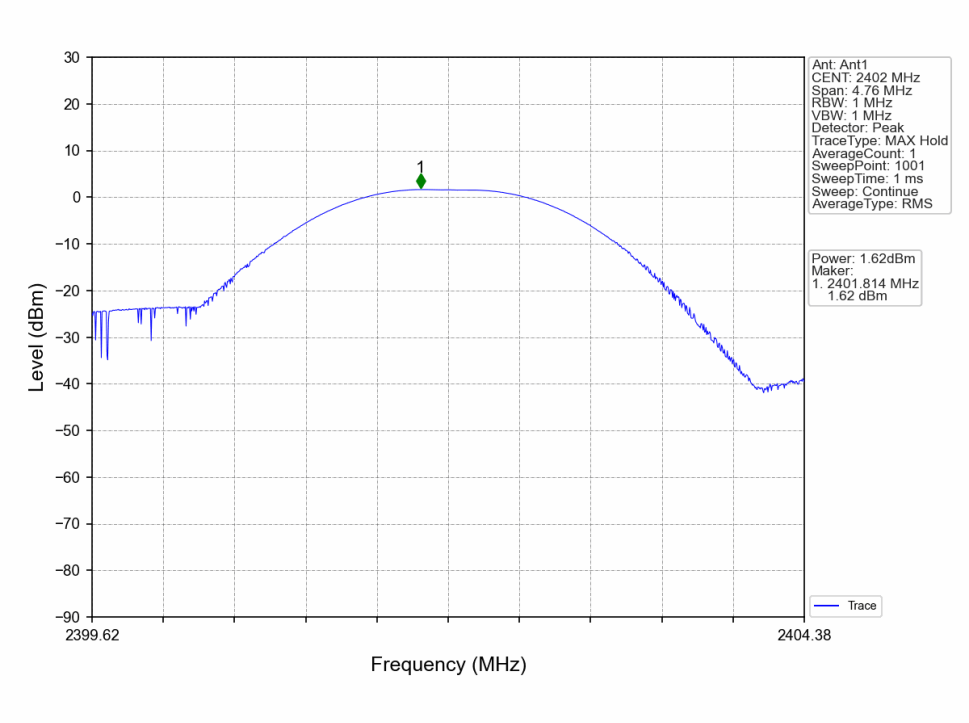
2. Maximum Conducted Output Power

2.1 Test Result

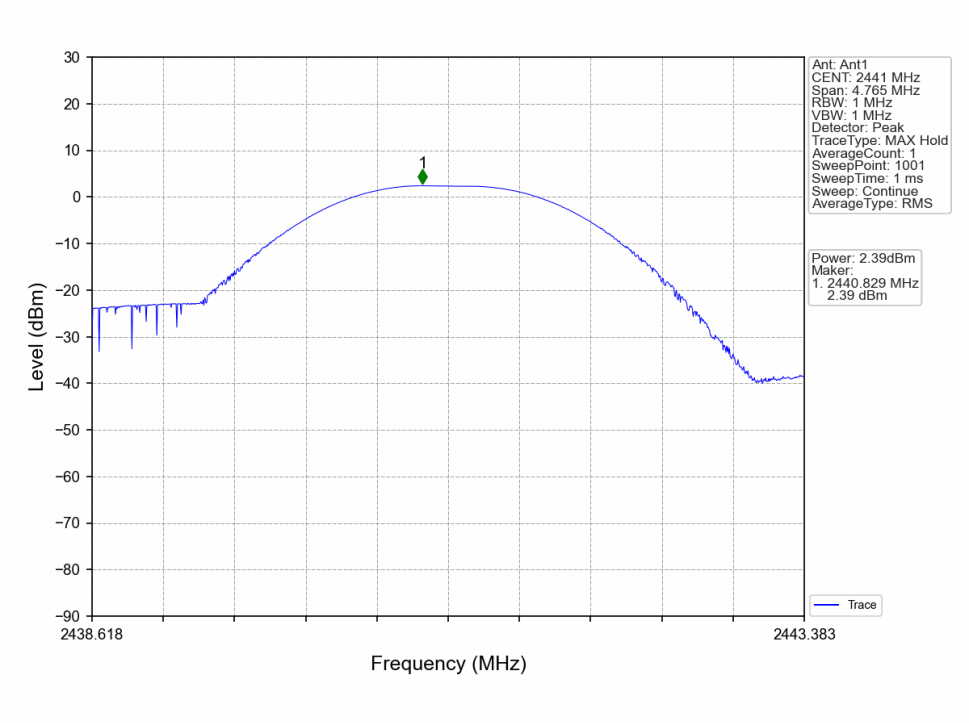
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	1.62	<=30	Pass
		2441	DH5	2.39	<=30	Pass
		2480	DH5	2.81	<=30	Pass
π/4DQPSK	SISO	2402	2DH5	2.31	<=20.97	Pass
		2441	2DH5	3.13	<=20.97	Pass
		2480	2DH5	3.58	<=20.97	Pass
8-DPSK	SISO	2402	3DH5	2.31	<=20.97	Pass
		2441	3DH5	3.19	<=20.97	Pass
		2480	3DH5	3.63	<=20.97	Pass

2.2 Test Graph

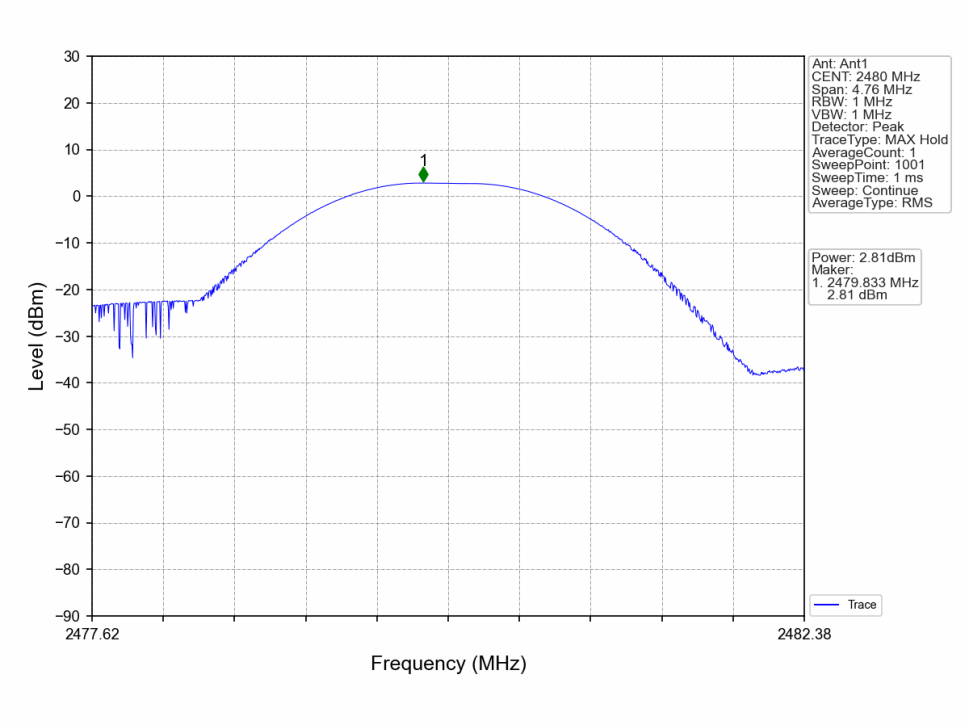
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



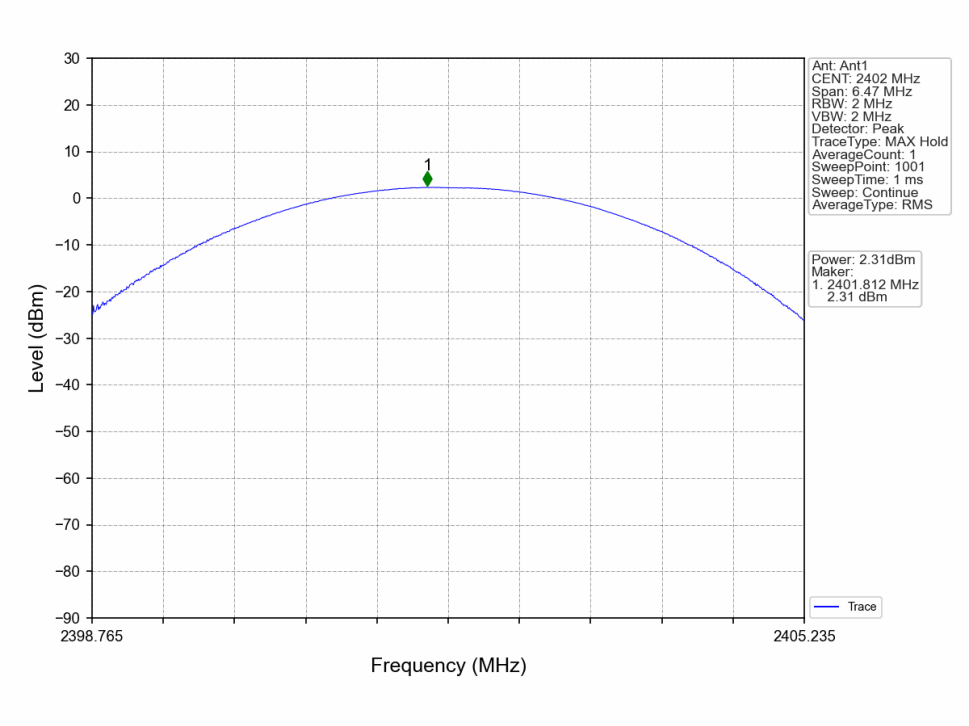
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



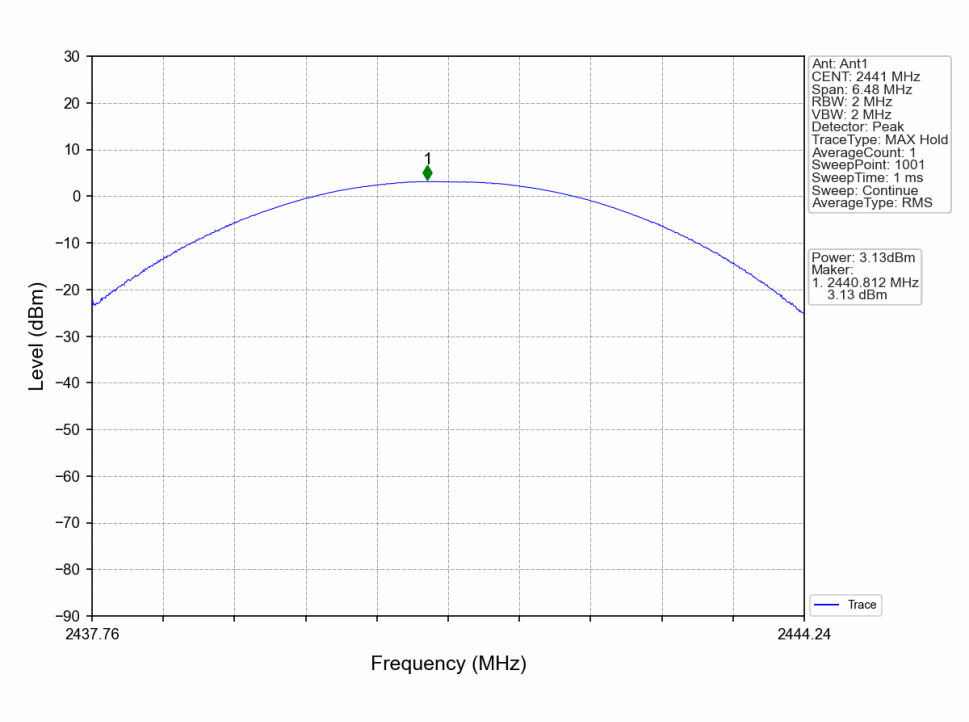
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



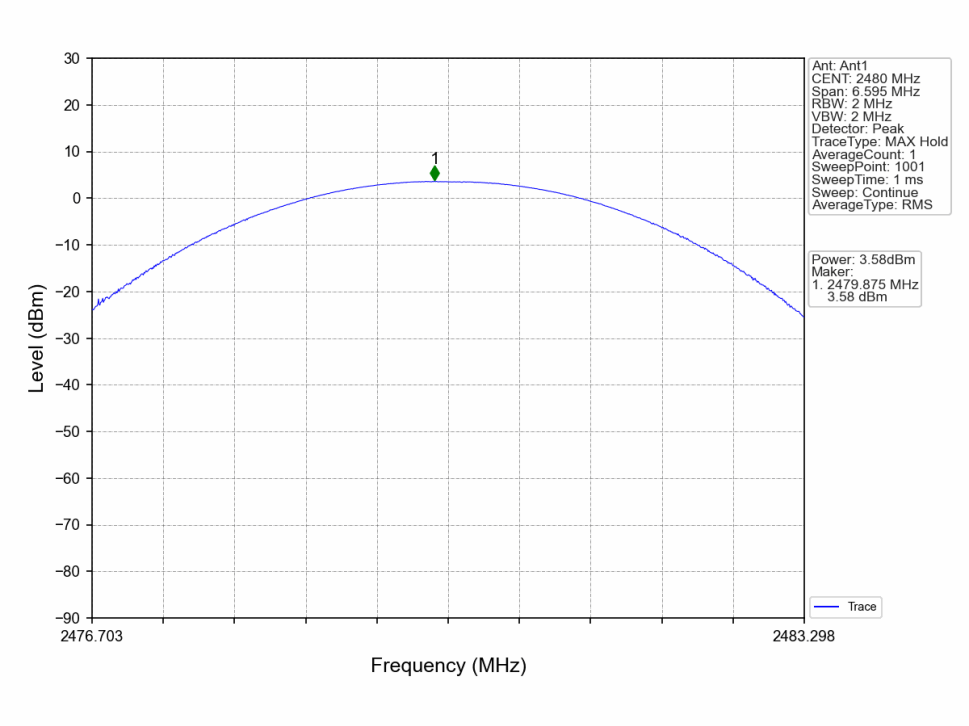
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



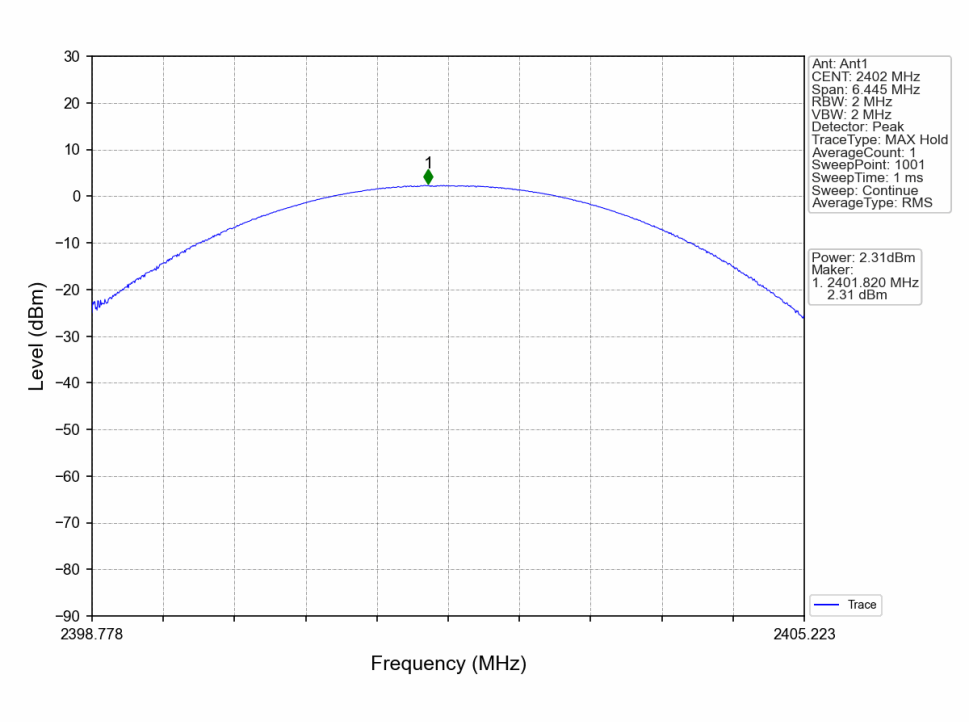
π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



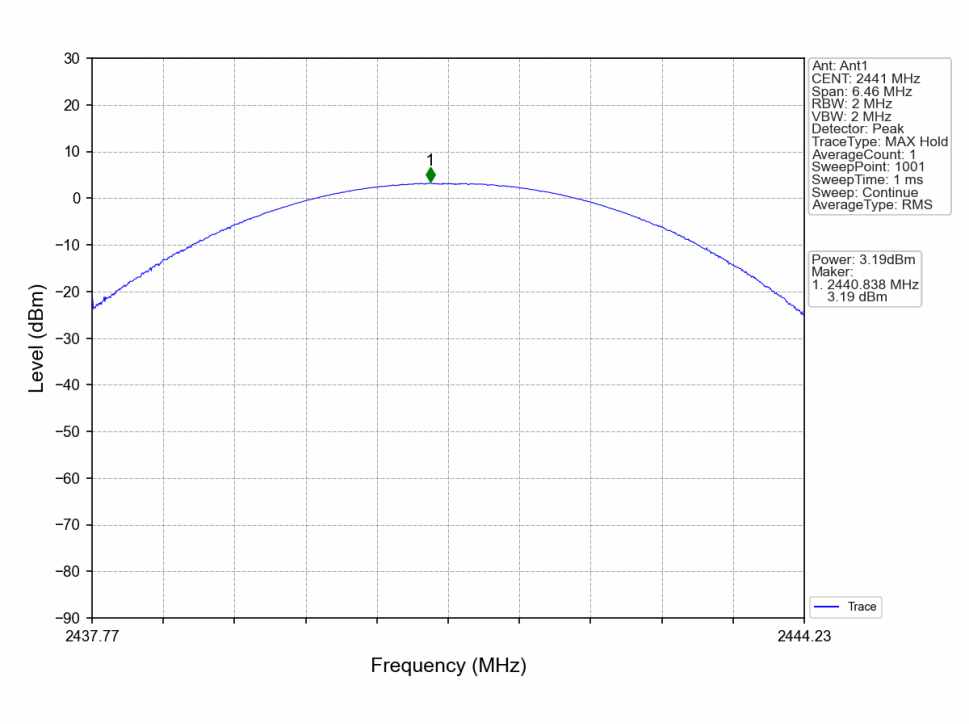
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



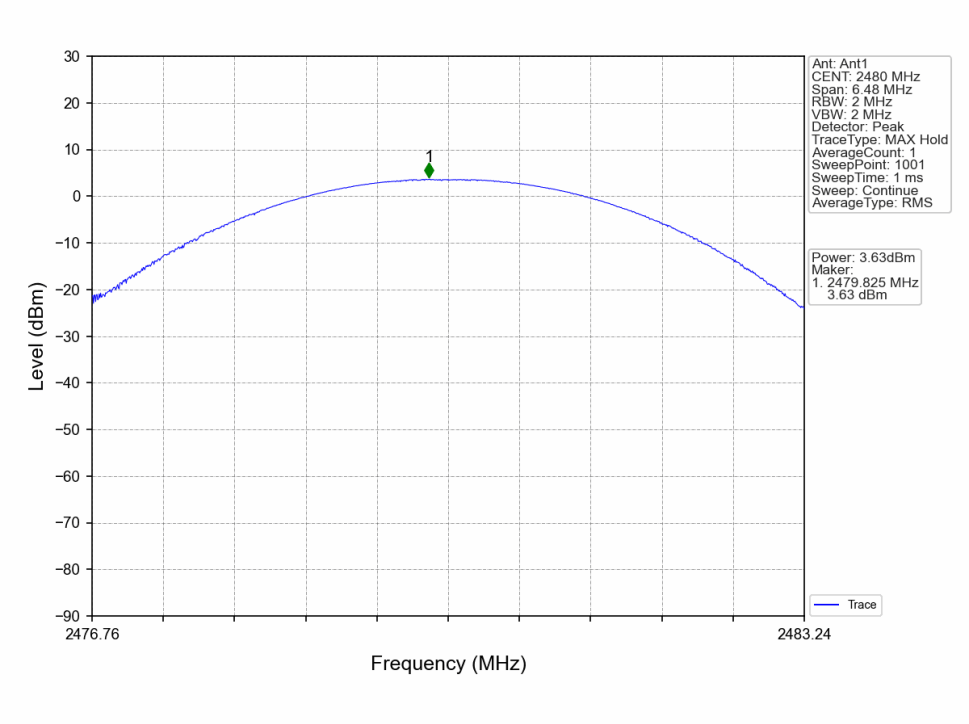
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



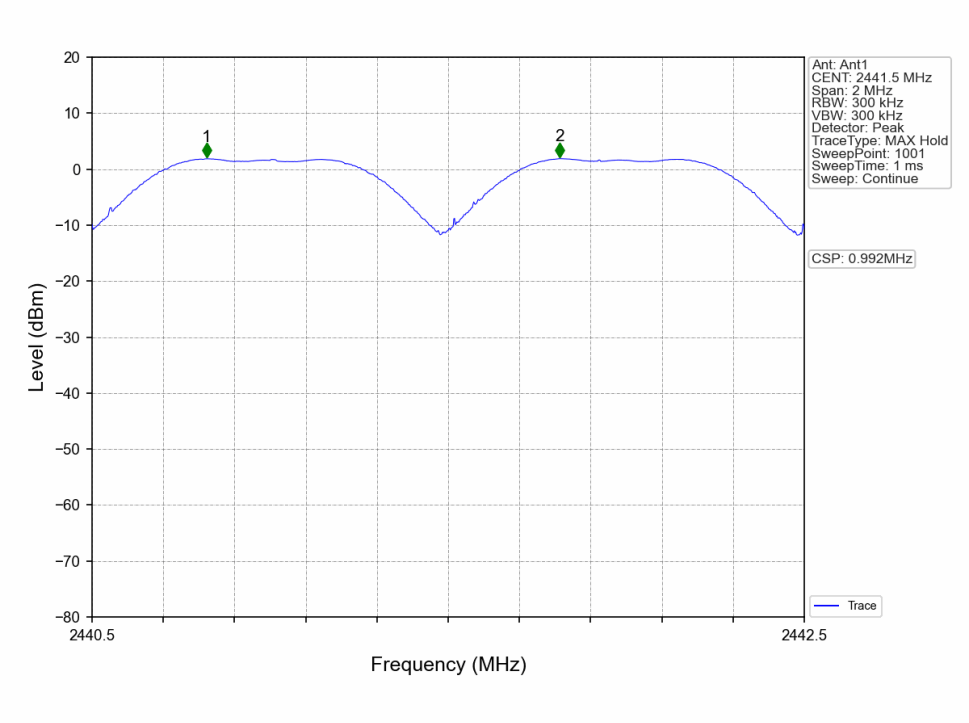
3. Carrier Frequency Separation

3.1 Test Result

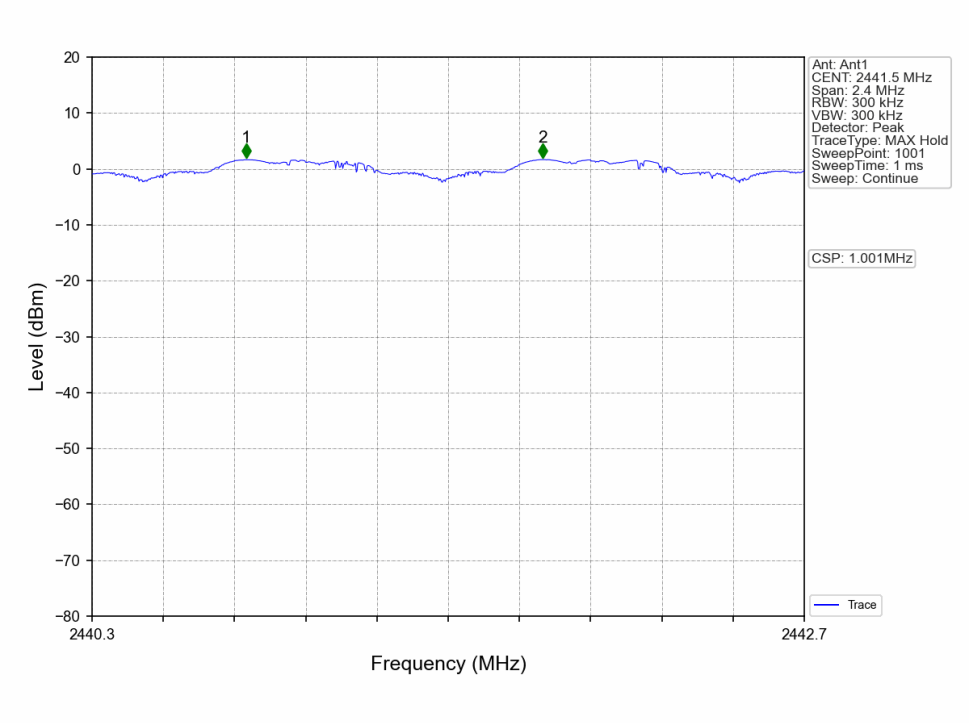
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.992	0.953	>=0.953	Pass
π/4DQPSK	SISO	HOPP	2DH5	1.001	1.319	>=0.879	Pass
8-DPSK	SISO	HOPP	3DH5	0.998	1.296	>=0.864	Pass

3.2 Test Graph

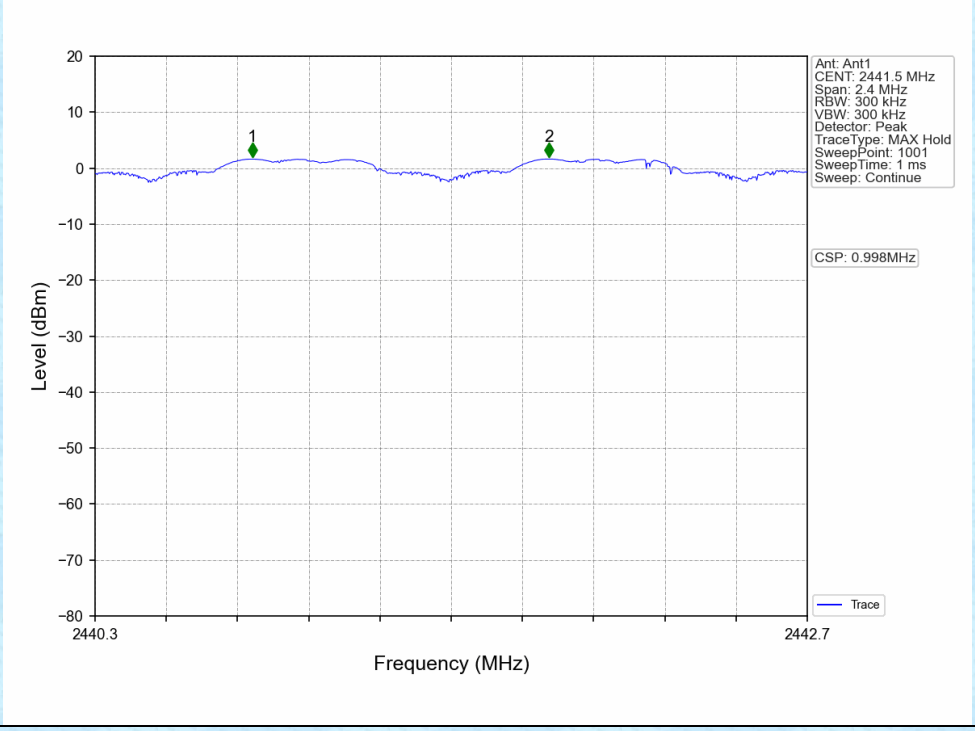
GFSK_DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



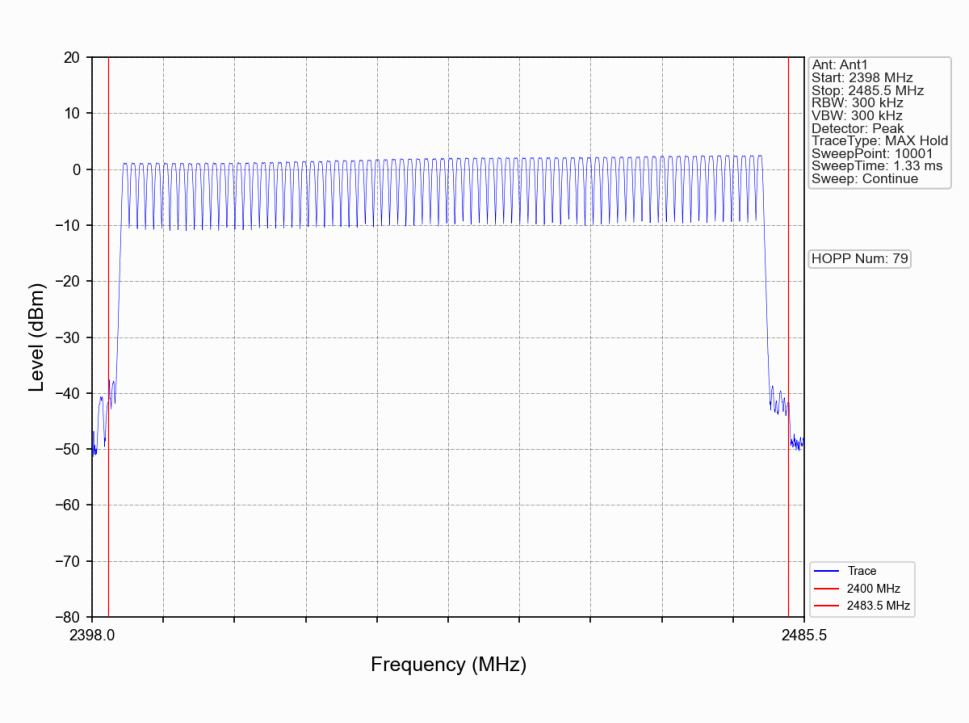
4. Number of Hopping Frequencies

4.1 Test Result

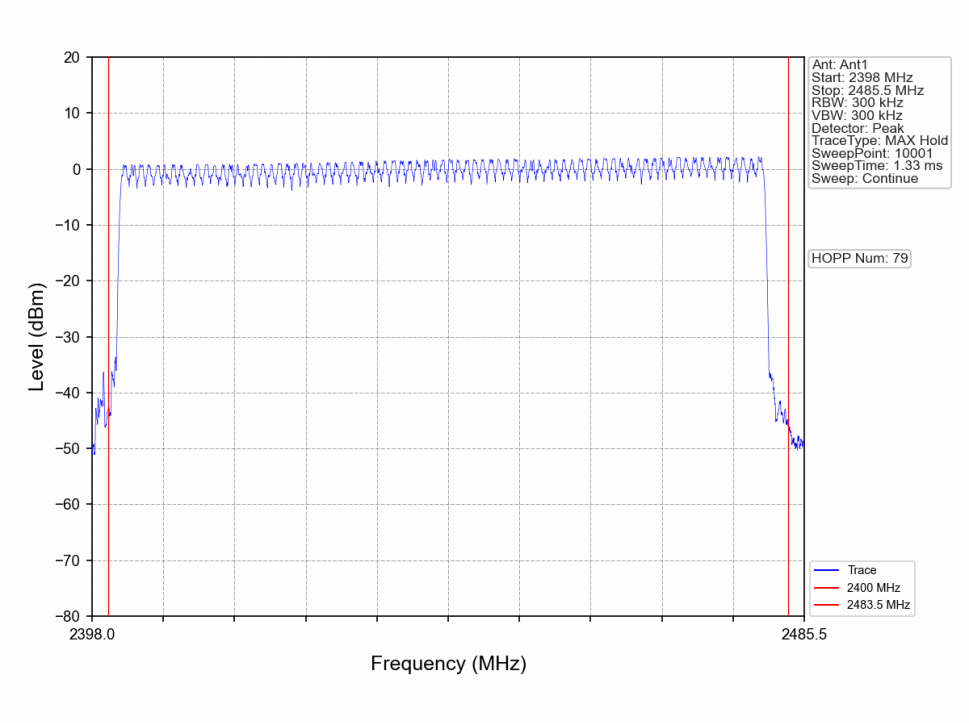
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
π/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8-DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph

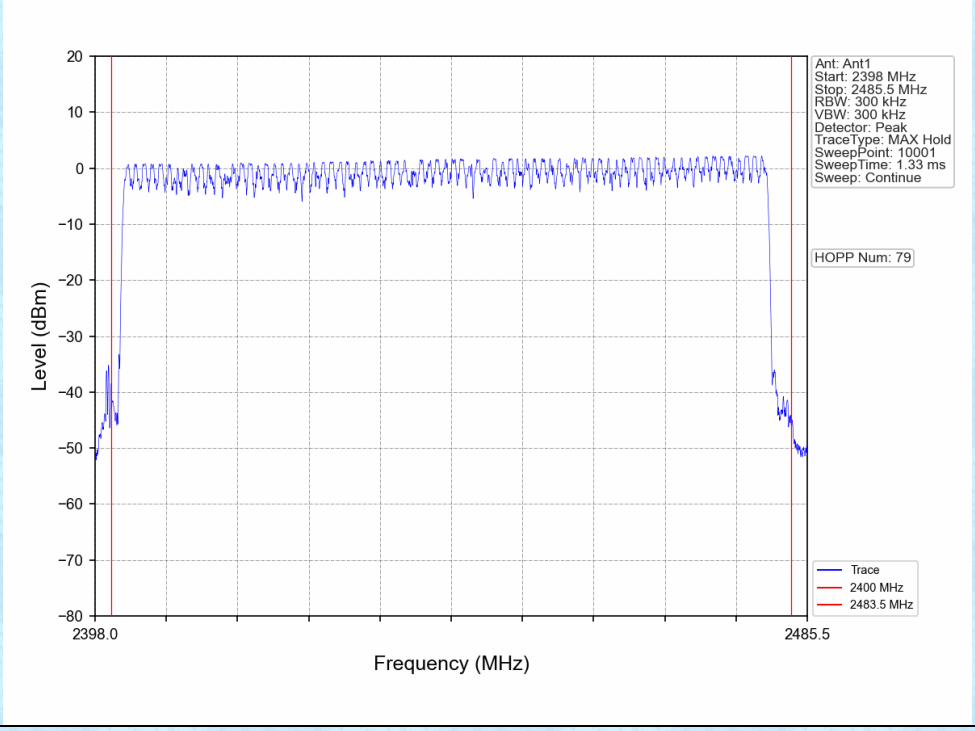
GFSK_DH5_HOPP_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



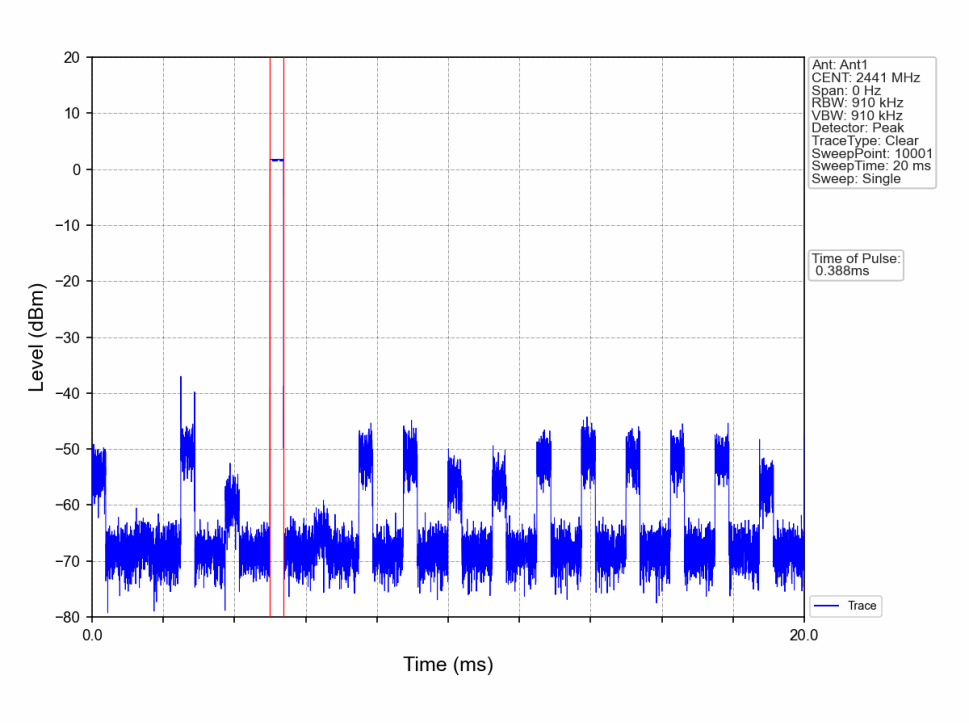
5. Time of Occupancy (Dwell Time)

5.1 Test Result

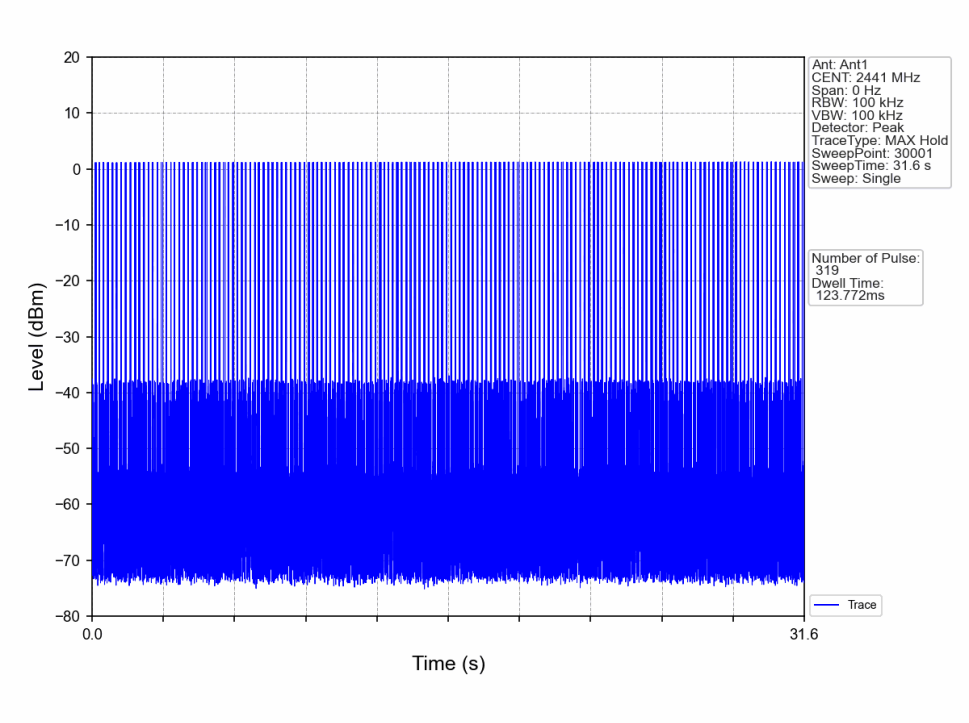
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.388	31.600	319	123.772	<=400	Pass
			DH3	1.644	31.600	166	272.904	<=400	Pass
			DH5	2.892	31.600	115	332.580	<=400	Pass
π/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.646	31.600	159	261.714	<=400	Pass
			2DH5	2.894	31.600	102	295.188	<=400	Pass
8-DPSK	SISO	HOPP	3DH1	6.678	31.600	57	380.646	<=400	Pass
			3DH3	0.662	31.600	171	113.202	<=400	Pass
			3DH5	0.902	31.600	91	82.082	<=400	Pass

5.2 Test Graph

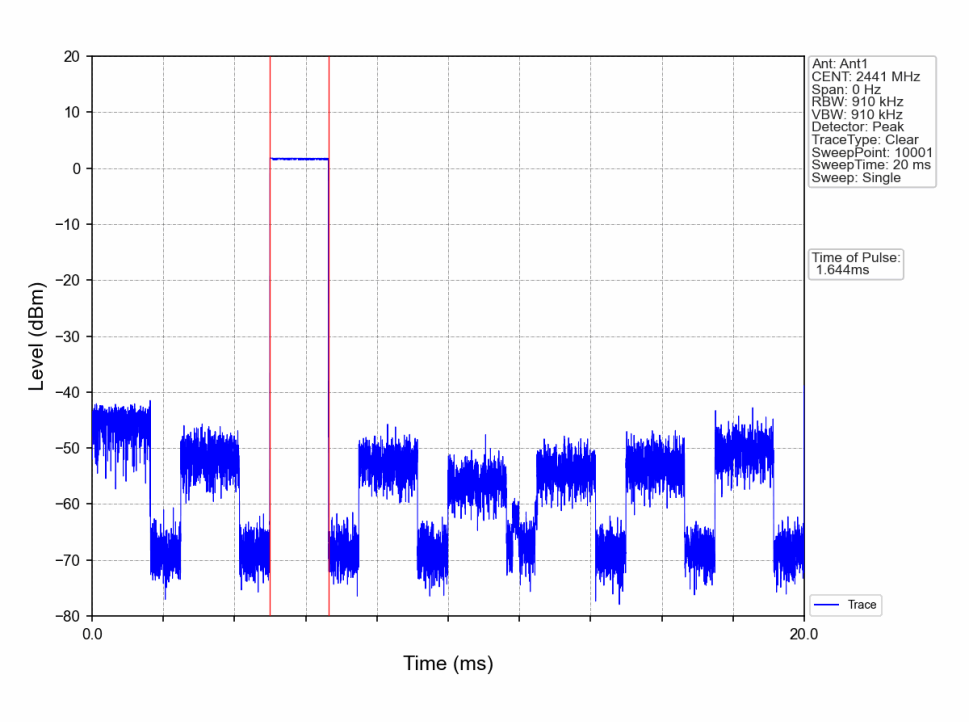
GFSK_DH1_HOPP_Ant1_NTNV



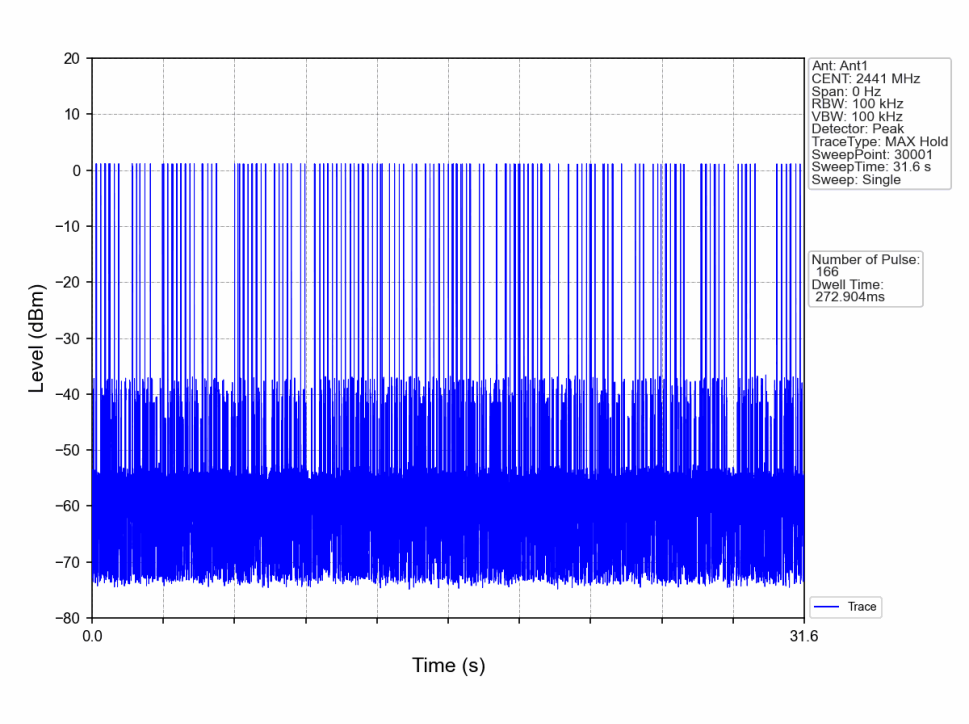
GFSK_DH1_HOPP_Ant1_NTNV



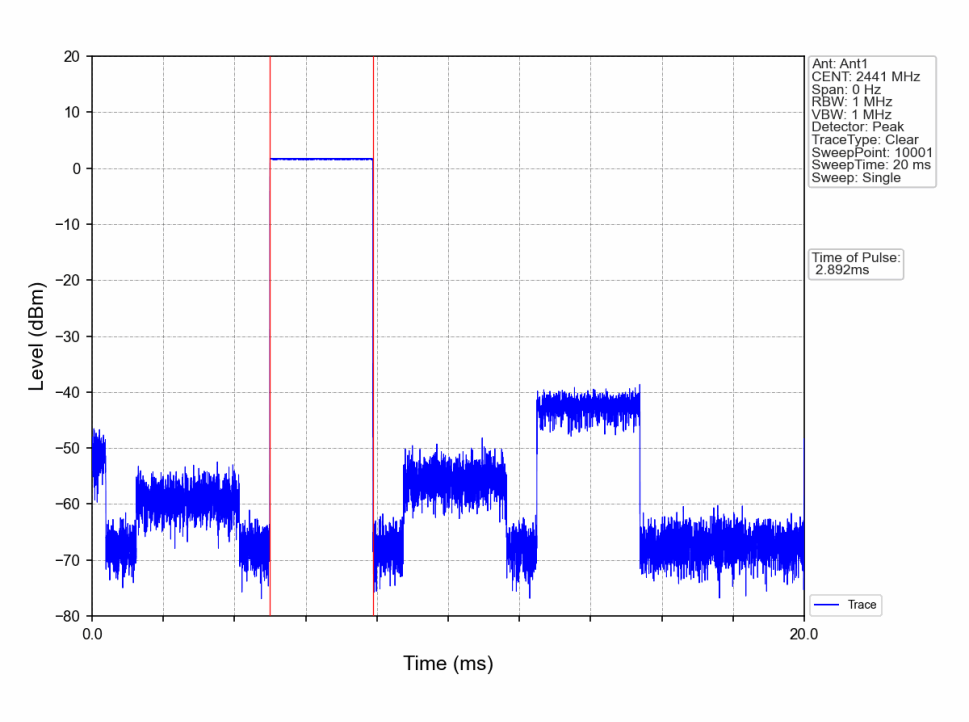
GFSK_DH3_HOPP_Ant1_NTNV



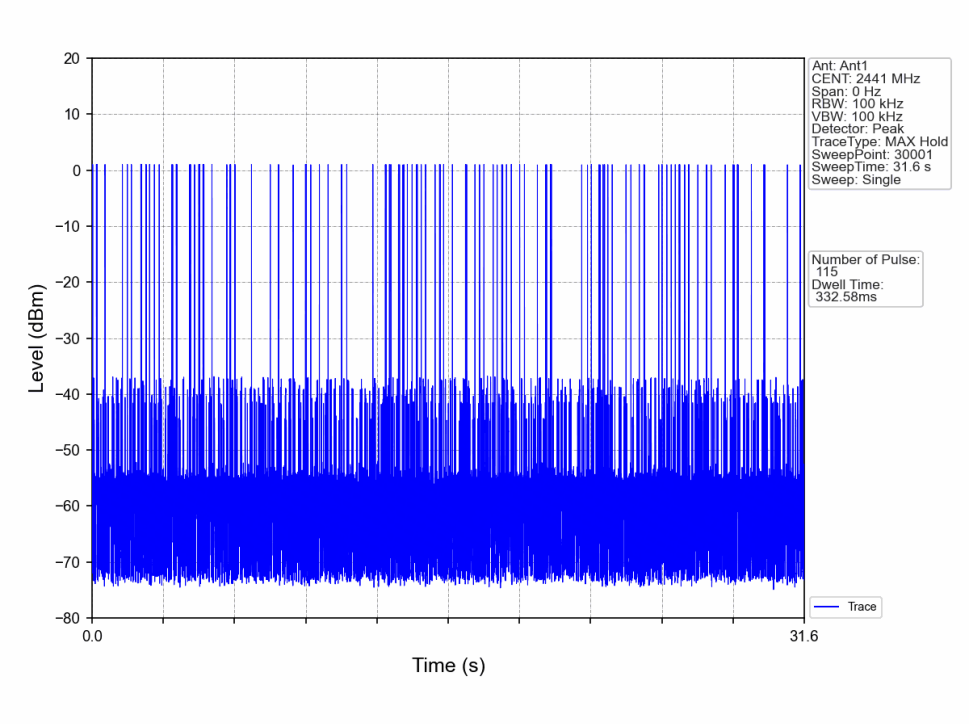
GFSK_DH3_HOPP_Ant1_NTNV



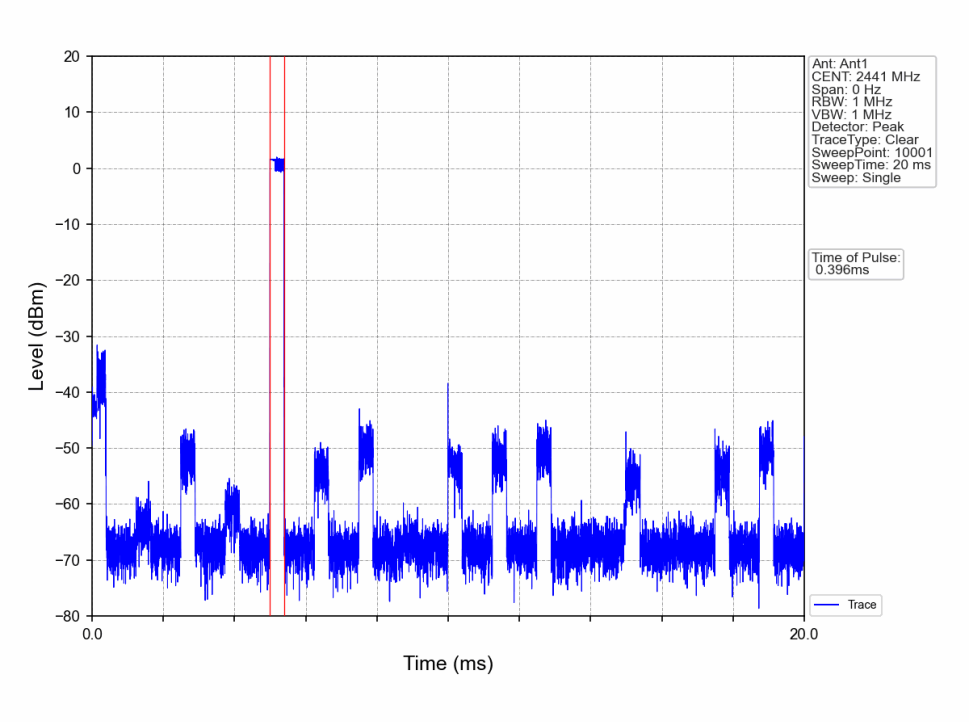
GFSK_DH5_HOPP_Ant1_NTNV



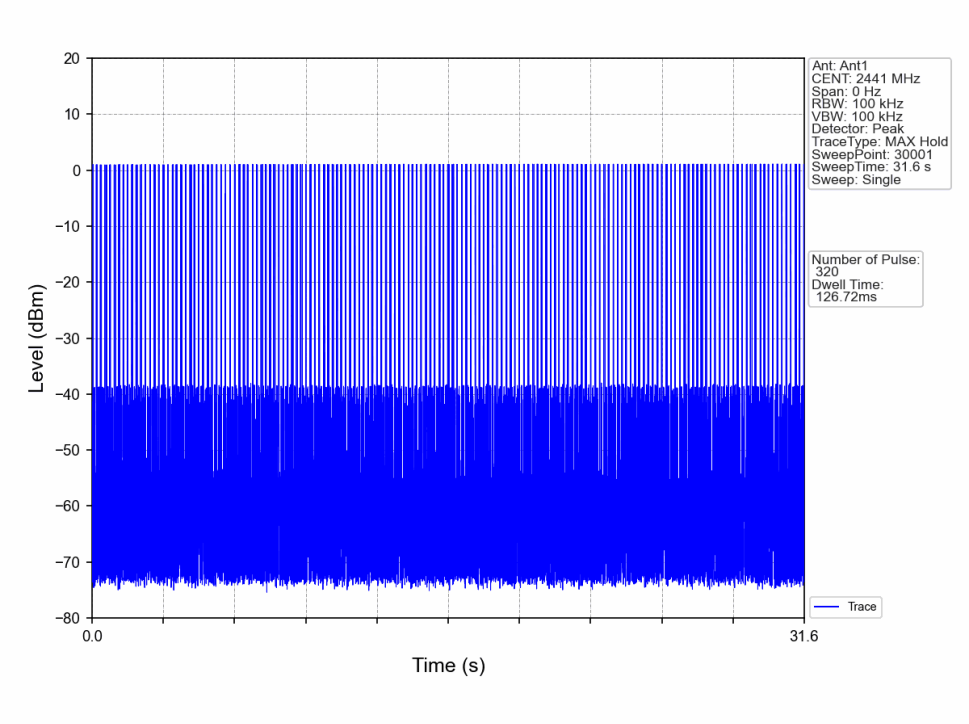
GFSK_DH5_HOPP_Ant1_NTNV



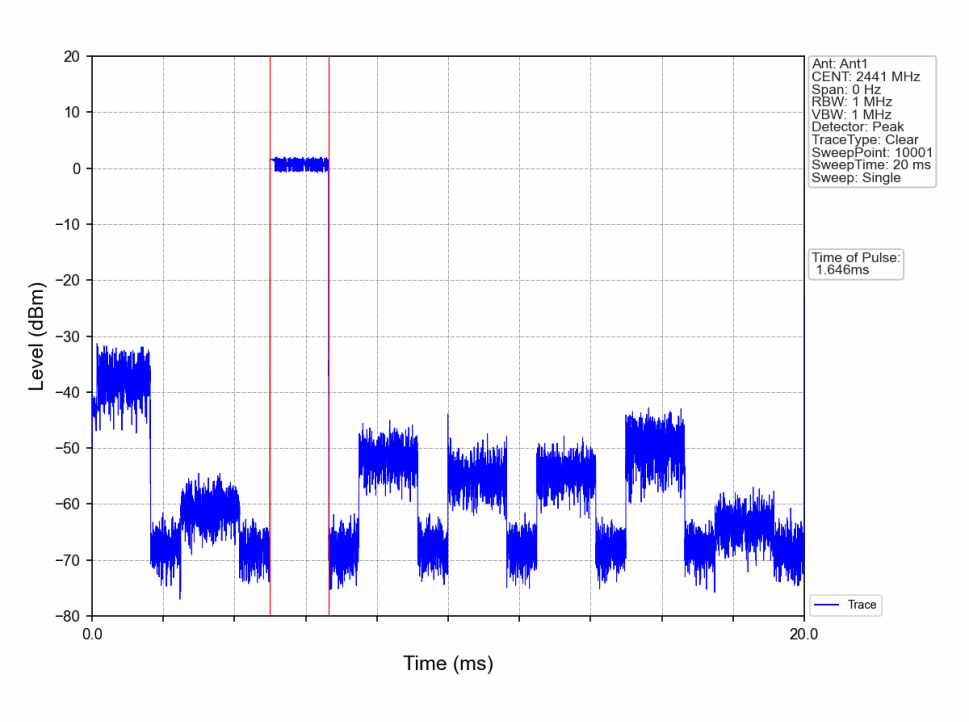
π/4DQPSK_2DH1_HOPP_Ant1_NTNV



π/4DQPSK_2DH1_HOPP_Ant1_NTNV



π/4DQPSK_2DH3_HOPP_Ant1_NTNV



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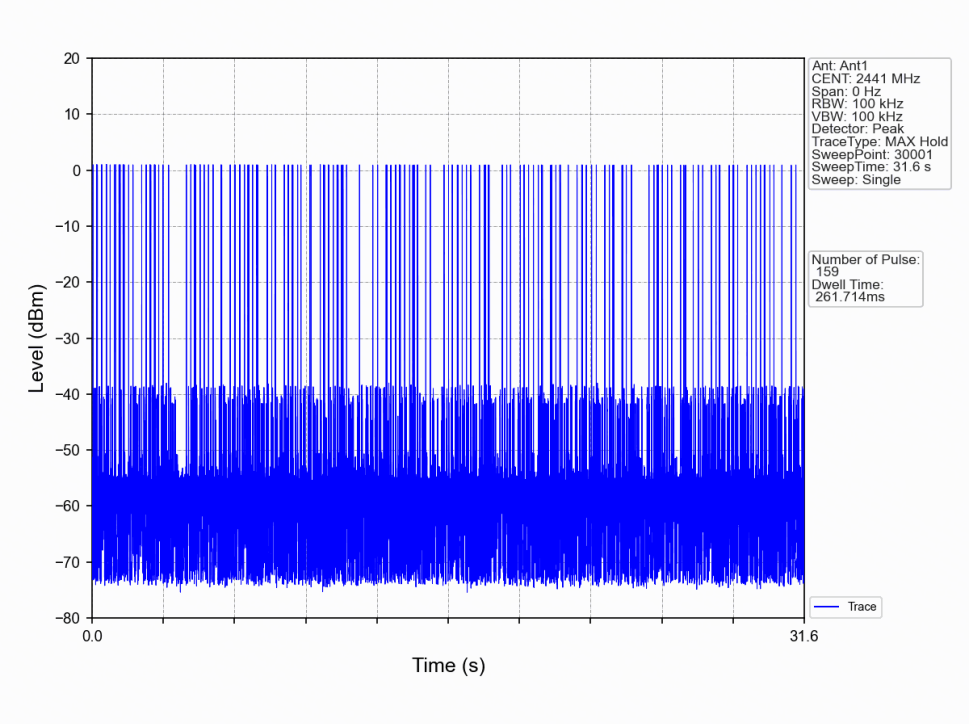

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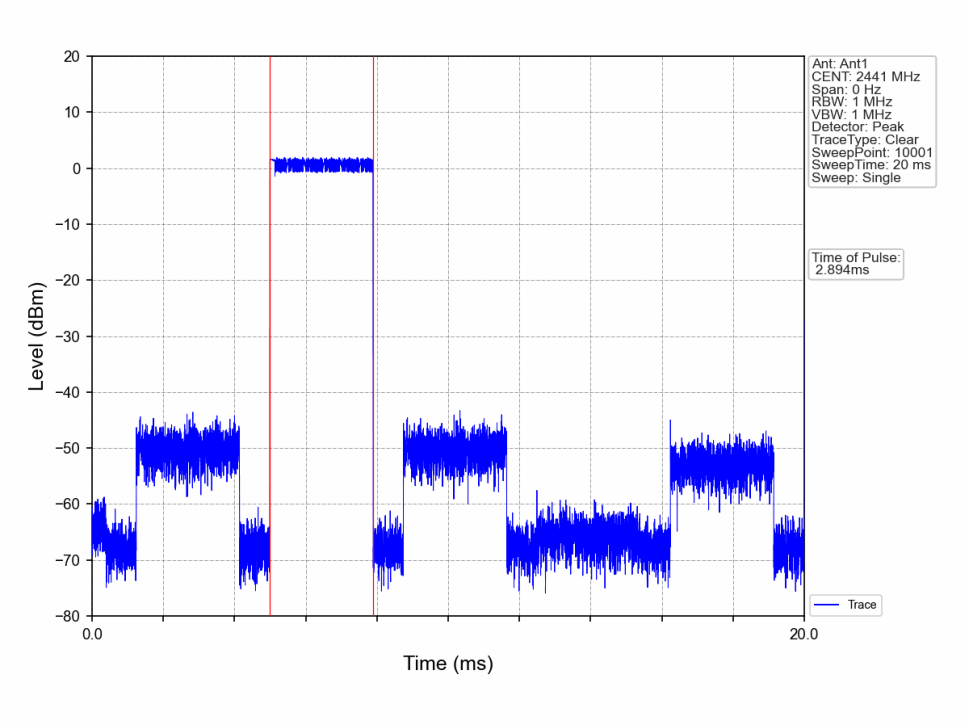

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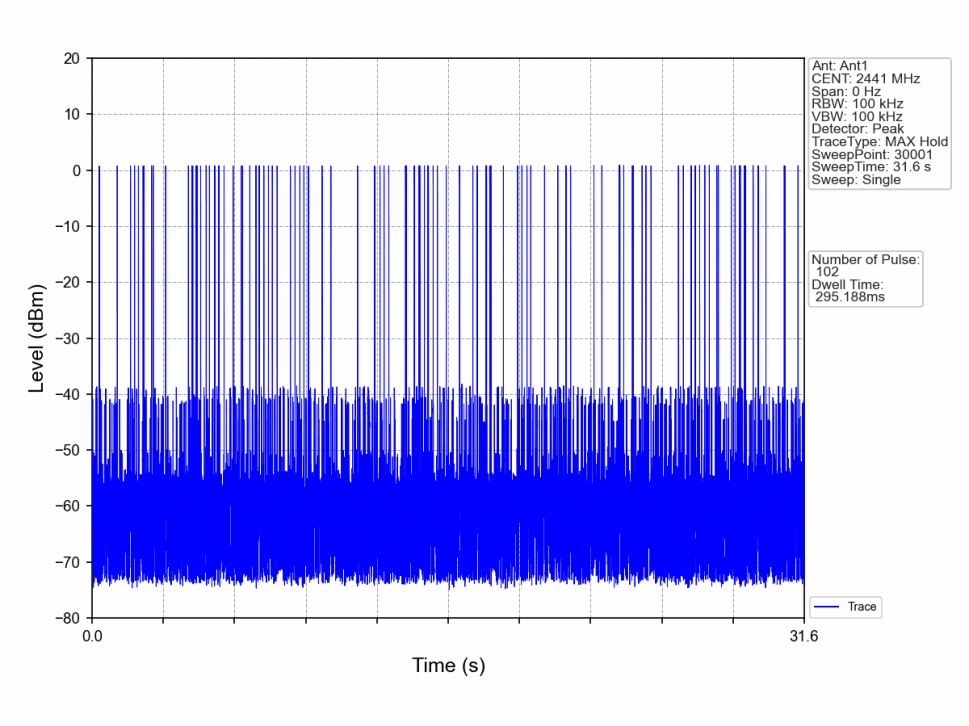
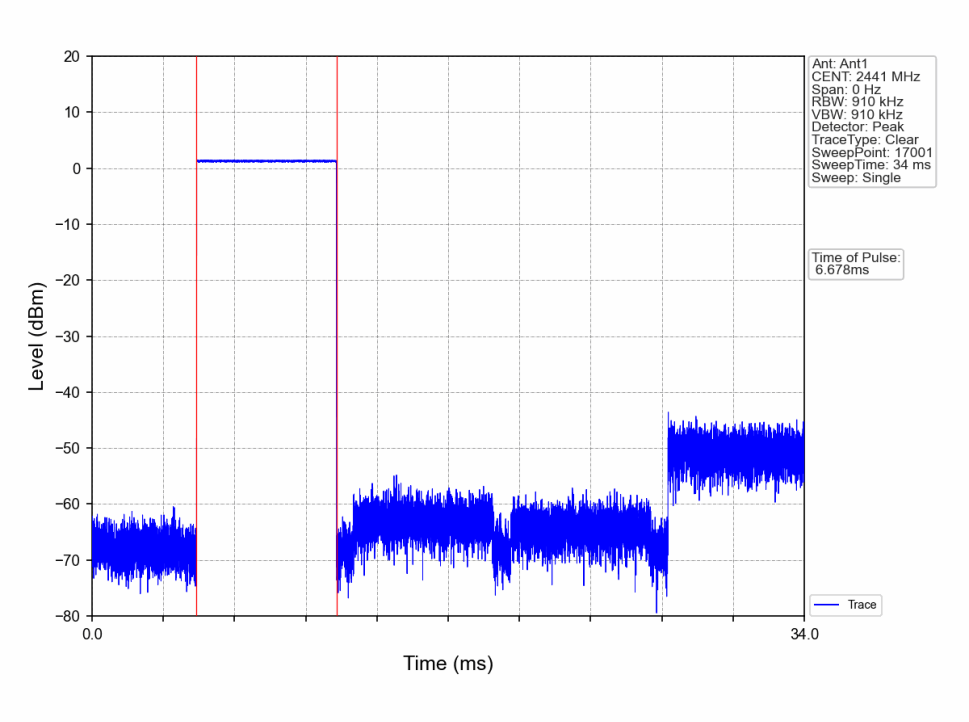


8-DPSK_3DH1_HOPP_Ant1_NTNV



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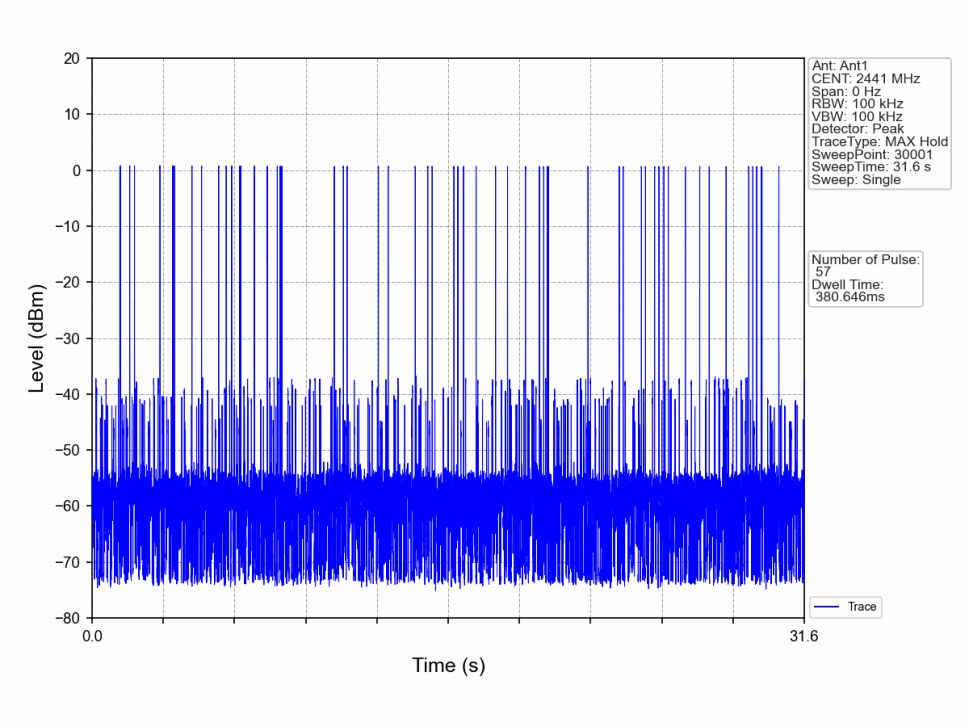

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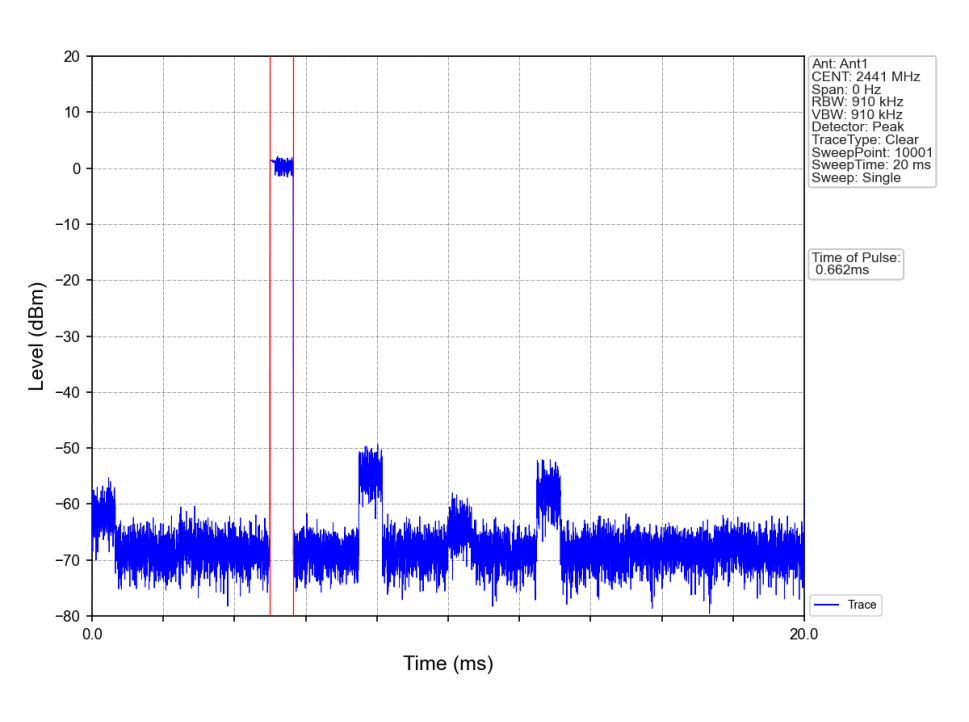
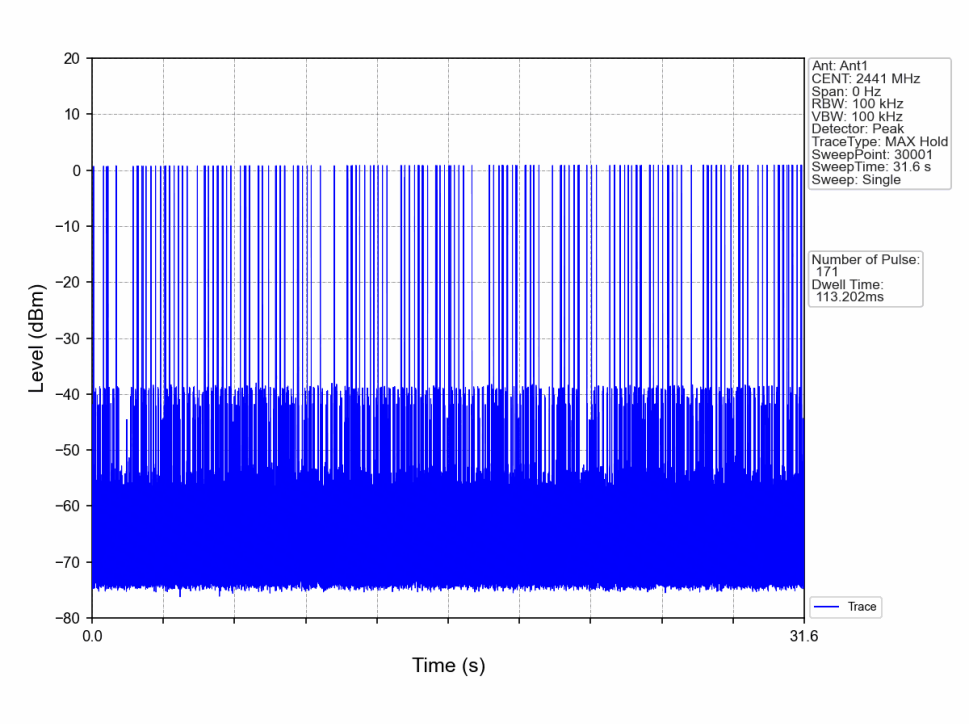
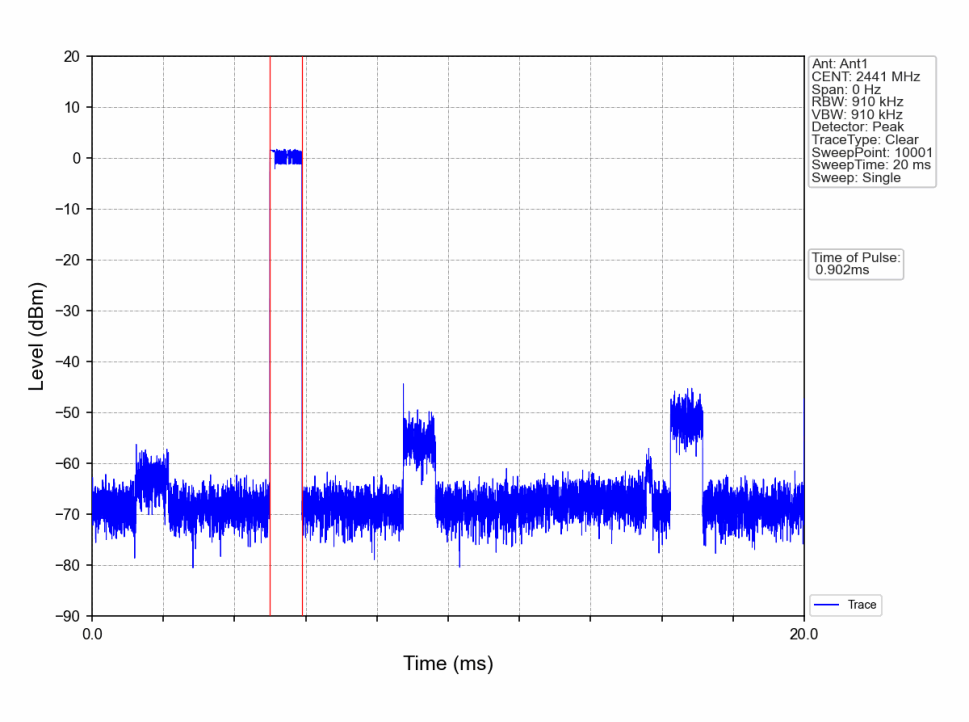


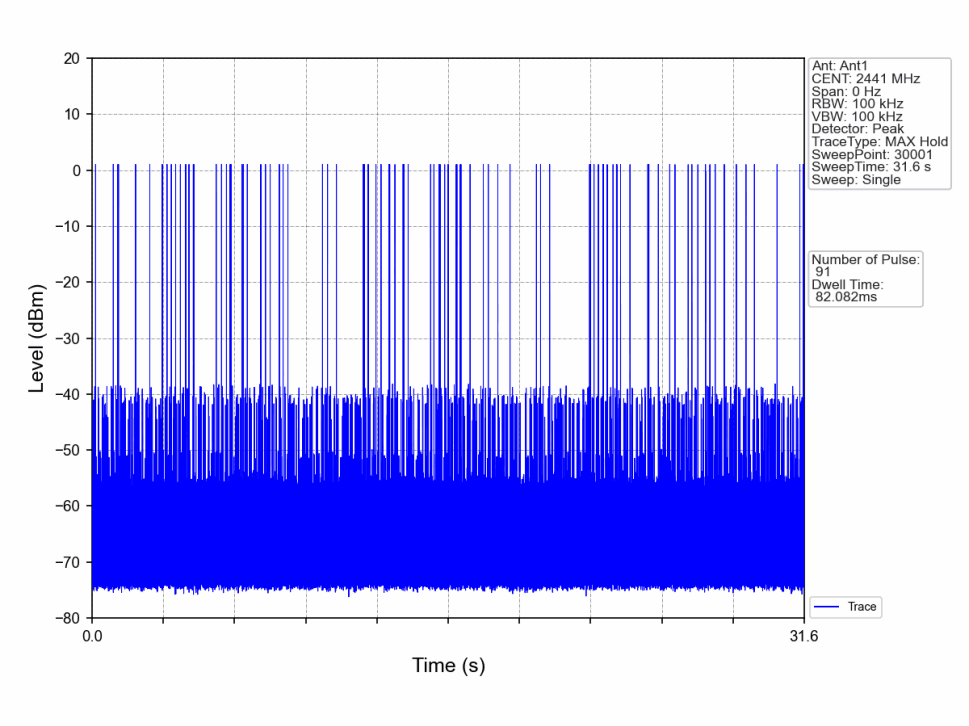
8-DPSK_3DH3_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

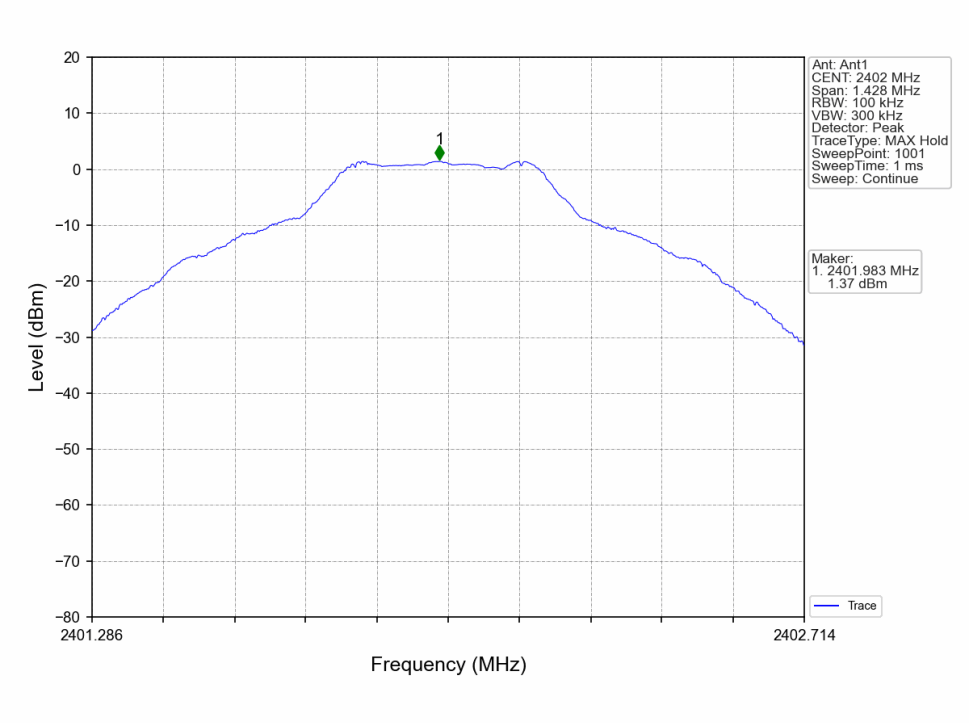
6.1 Ref

6.1.1 Test Result

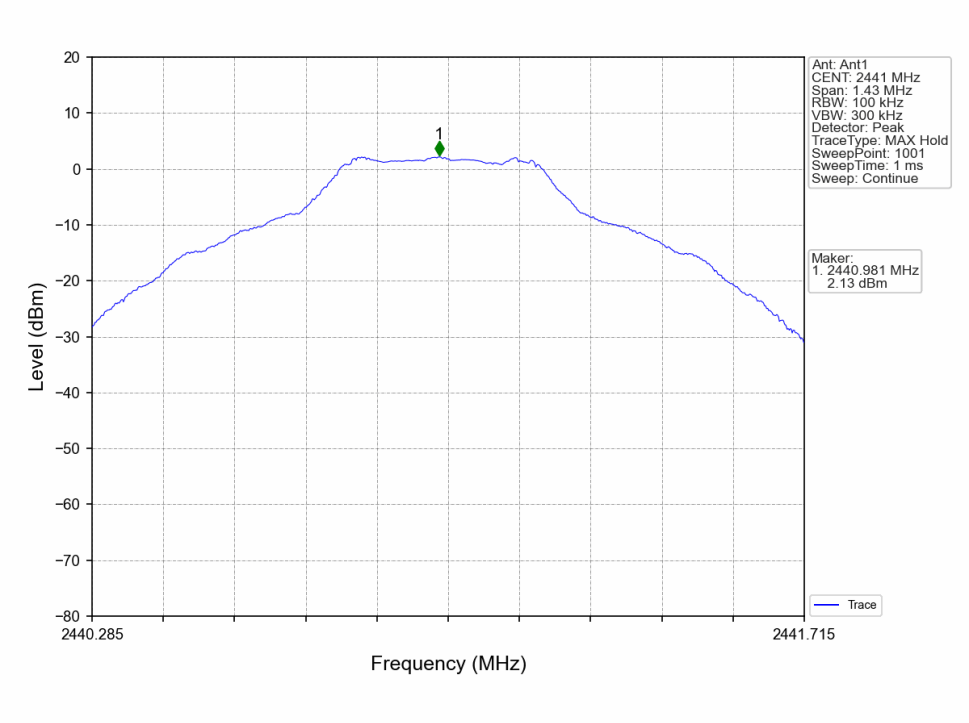
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	1.37
		2441	DH5	1	2.13
		2480	DH5	1	2.60
		HOPP	DH5	1	2.41
					2.41
π/4DQPSK	SISO	2402	2DH5	1	1.26
		2441	2DH5	1	2.09
		2480	2DH5	1	2.46
		HOPP	2DH5	1	2.11
					2.11
8-DPSK	SISO	2402	3DH5	1	1.26
		2441	3DH5	1	2.14
		2480	3DH5	1	2.65
		HOPP	3DH5	1	2.02
					2.02
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

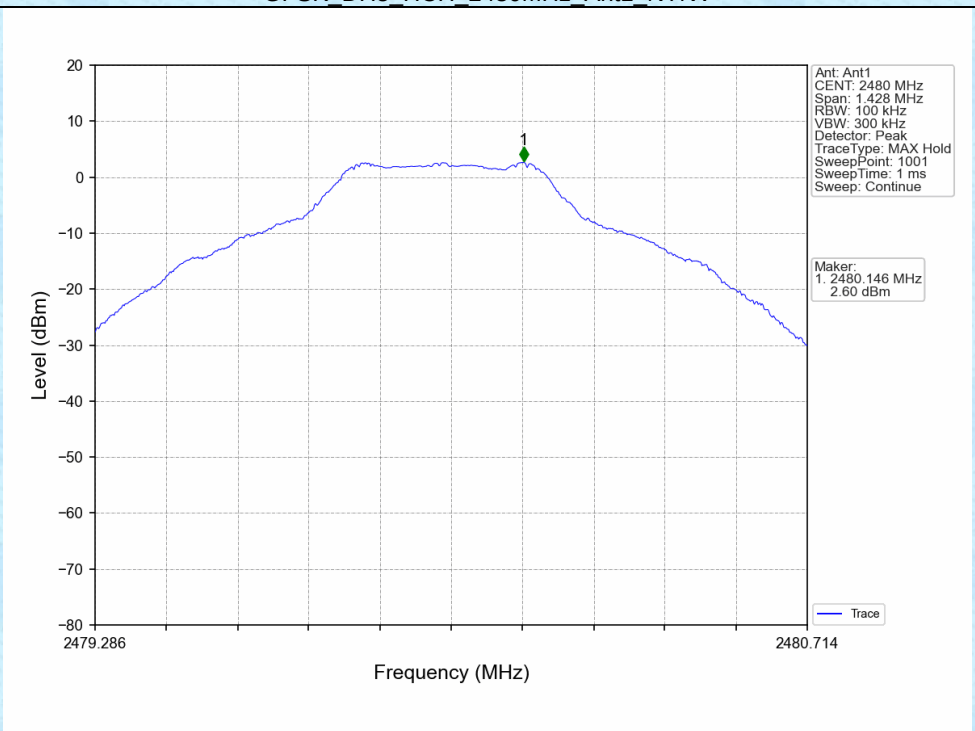
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



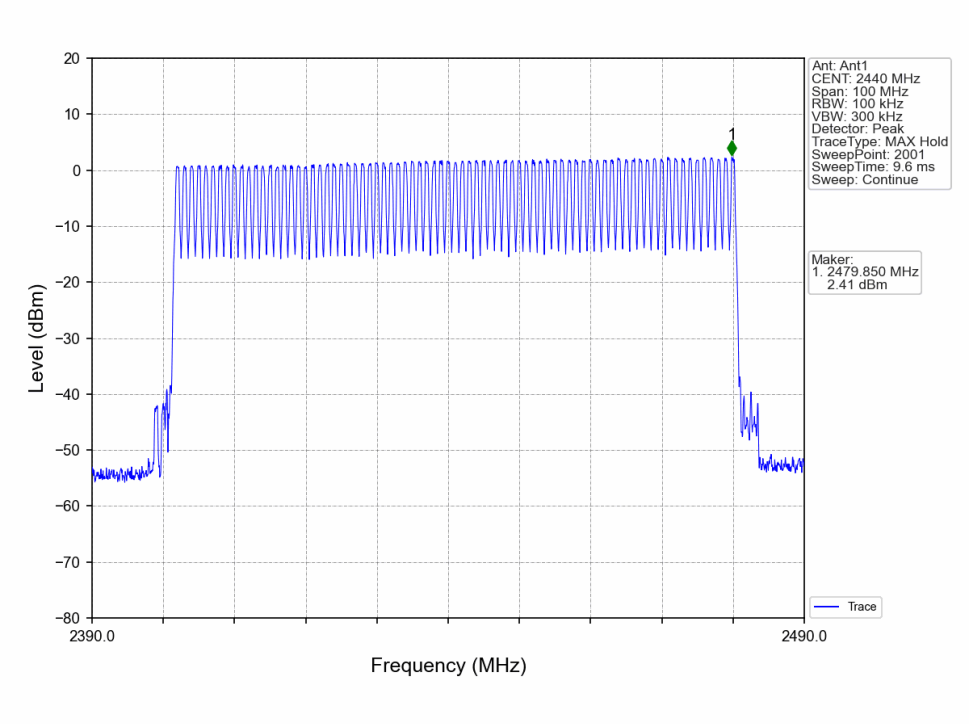
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



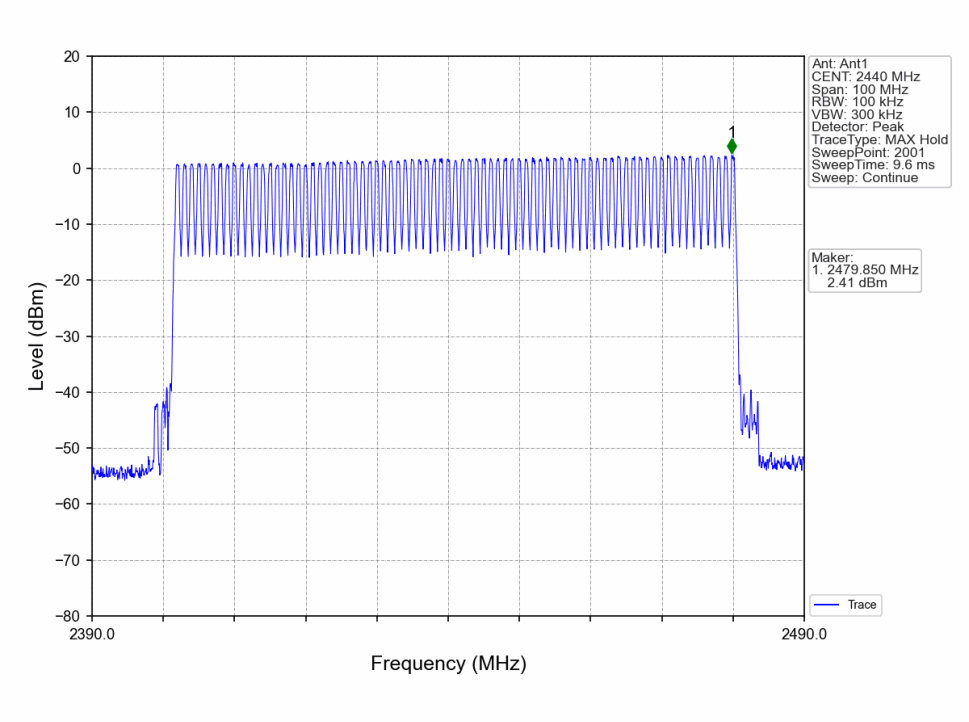
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



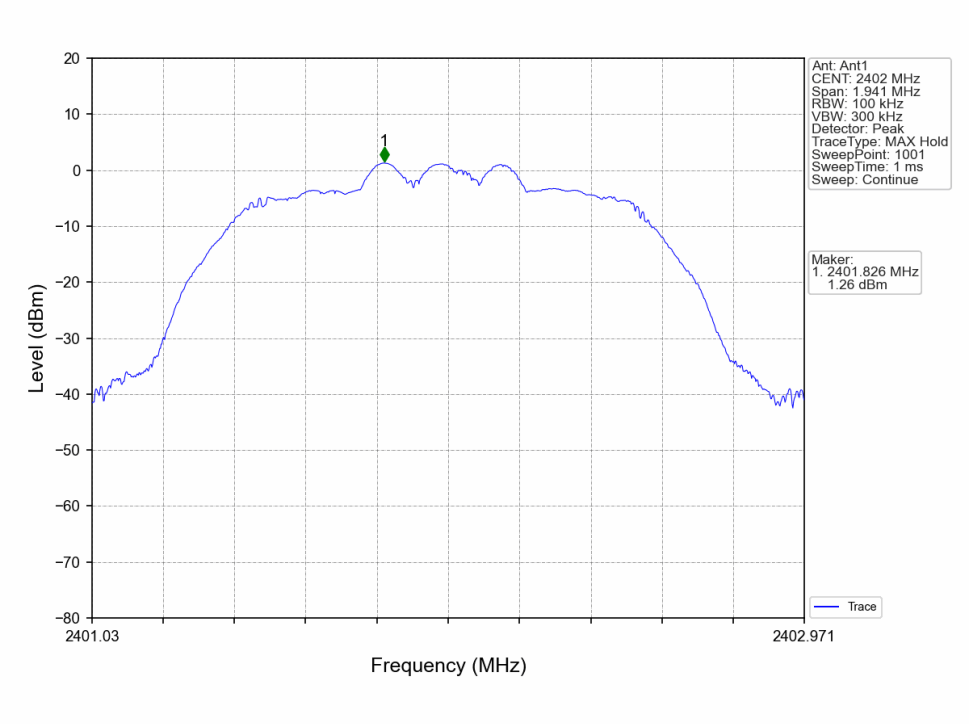
GFSK_DH5_HOPP_Ant1_NTNV



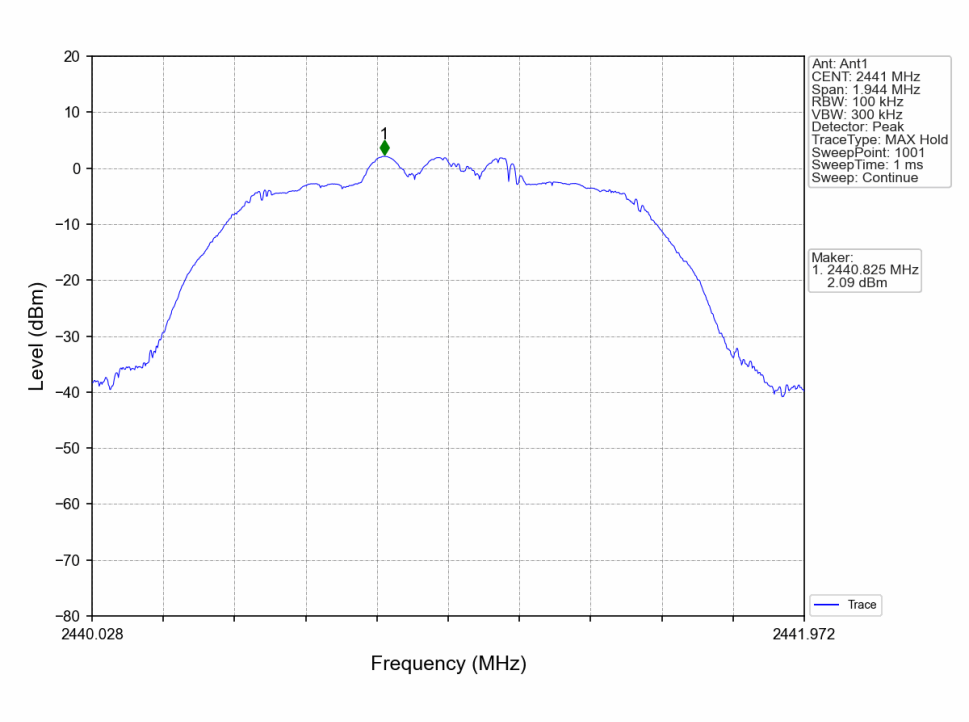
GFSK_DH5_HOPP_Ant1_NTNV



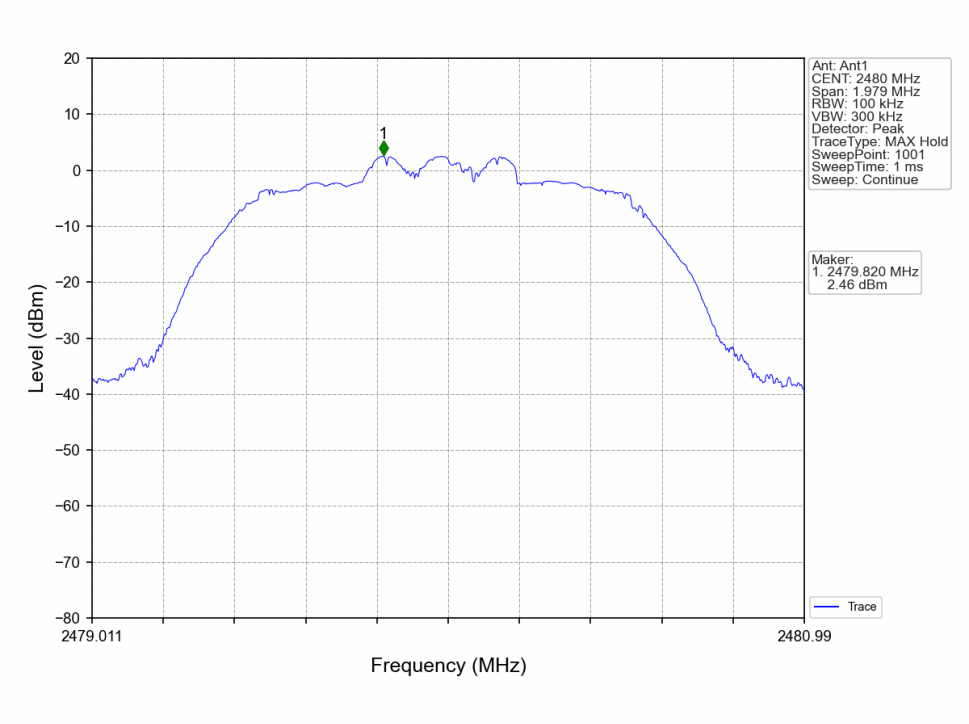
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



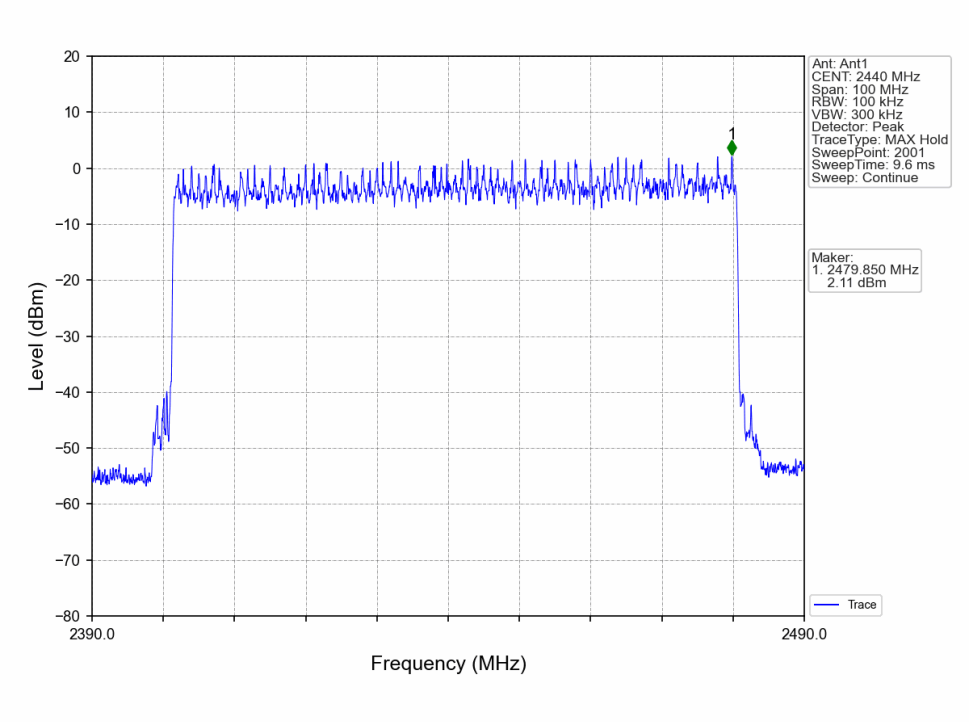
π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



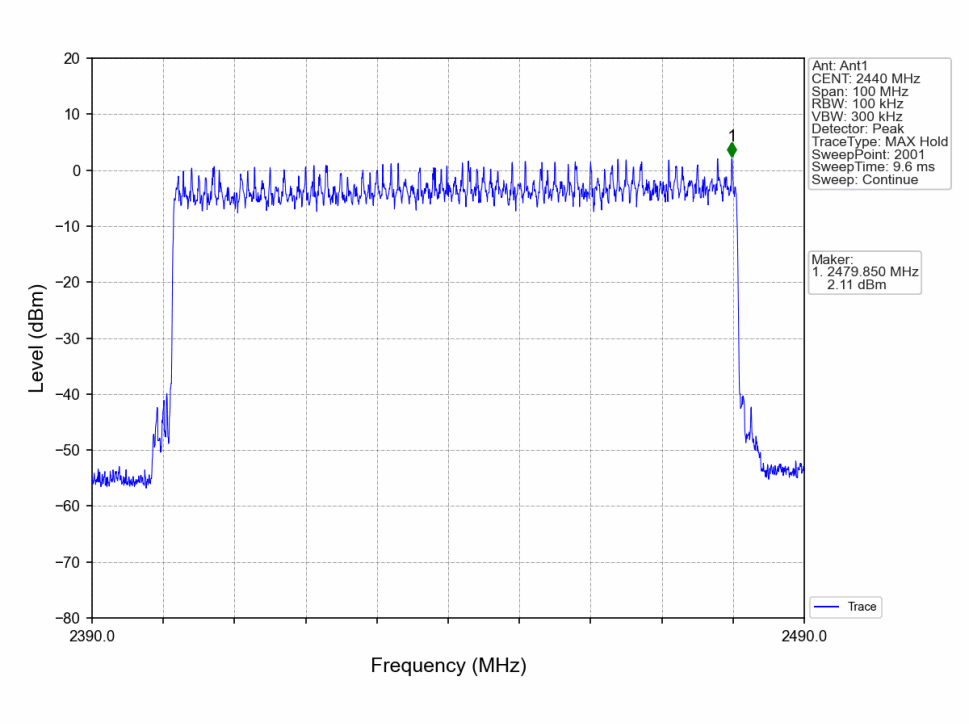
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



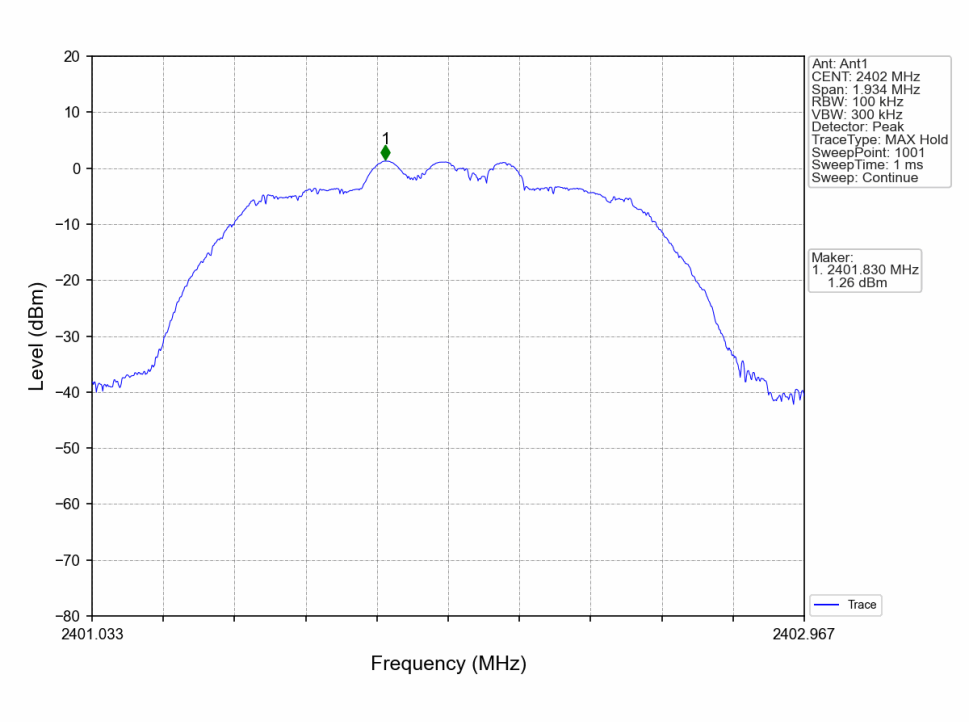
π/4DQPSK_2DH5_HOPP_Ant1_NTNV



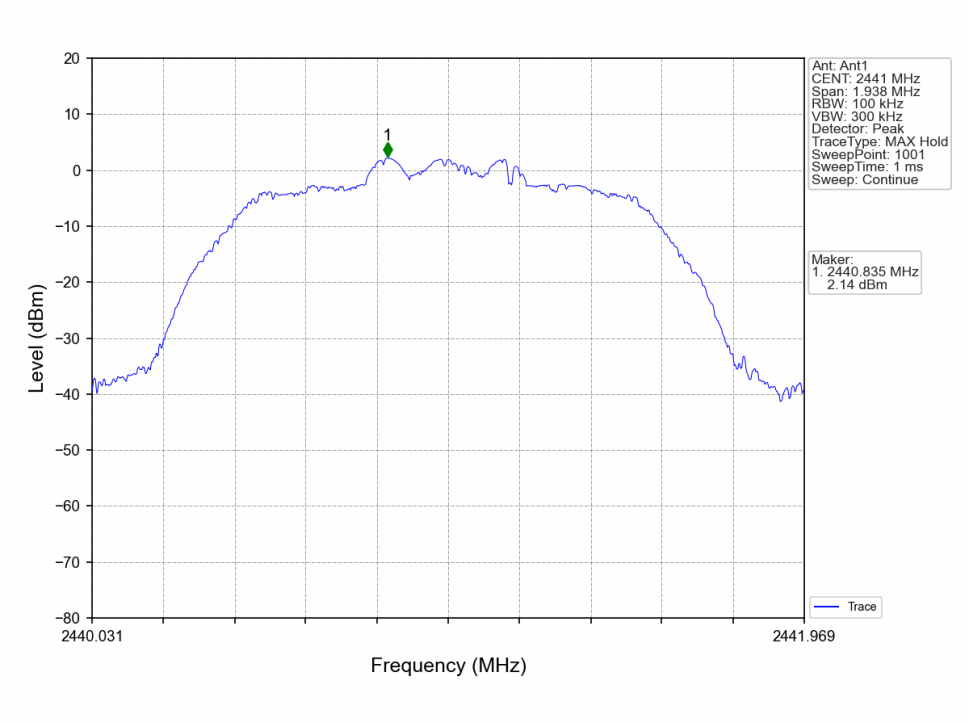
π/4DQPSK_2DH5_HOPP_Ant1_NTNV



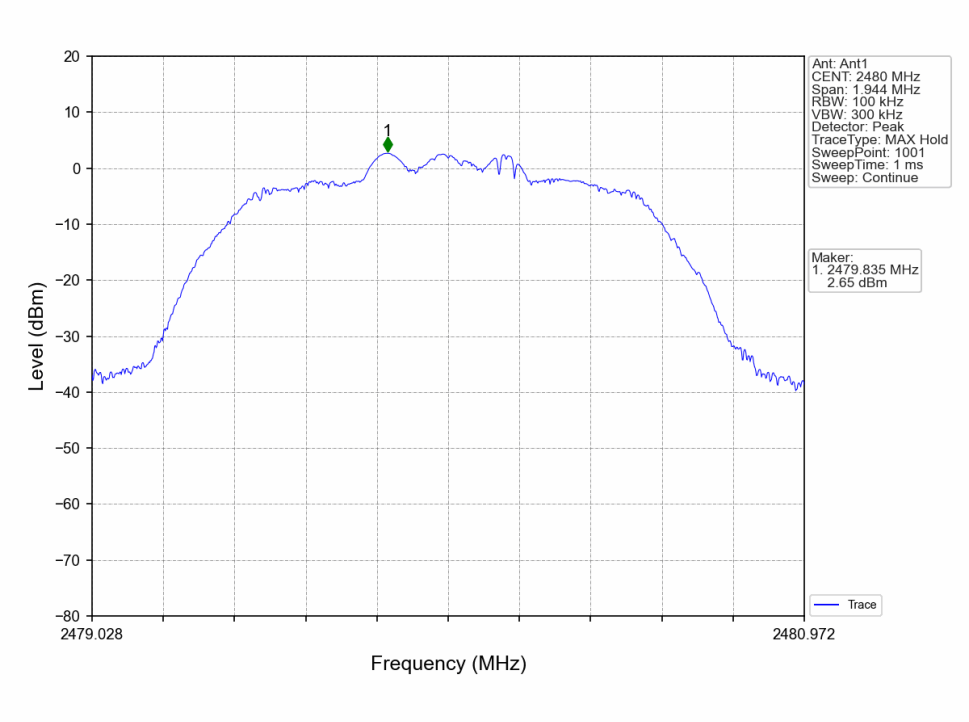
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



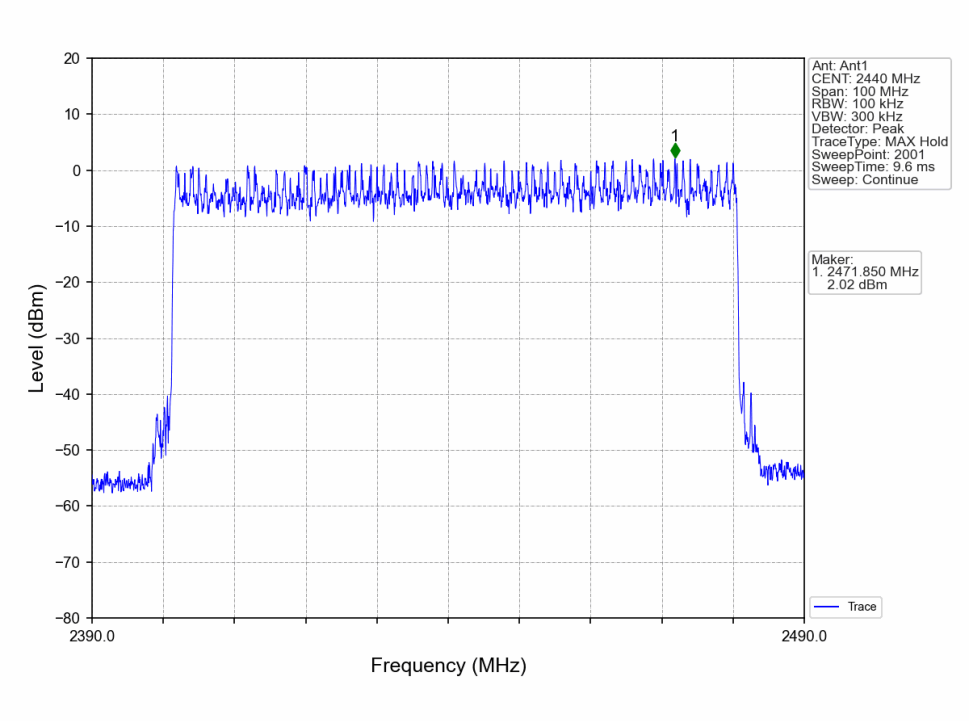
8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



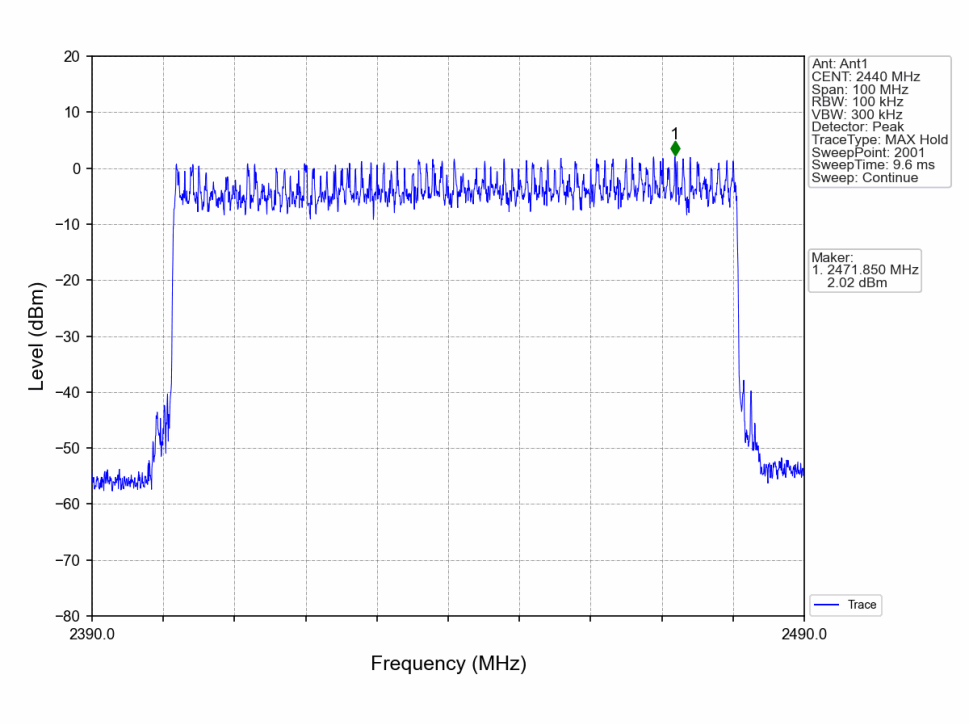
8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



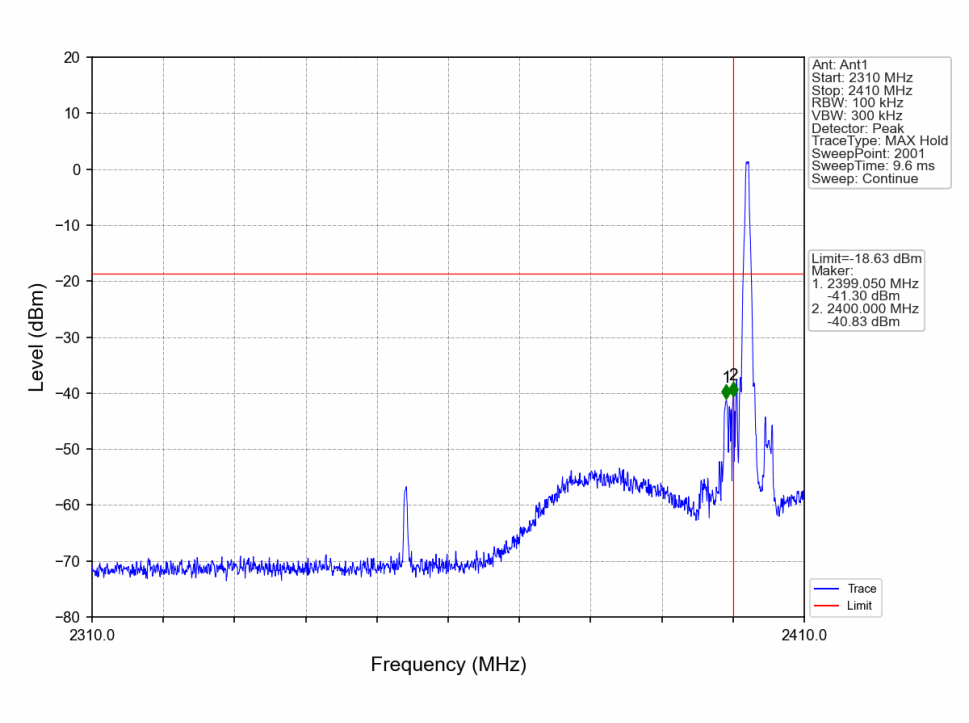
6.2 CSE

6.2.1 Test Result

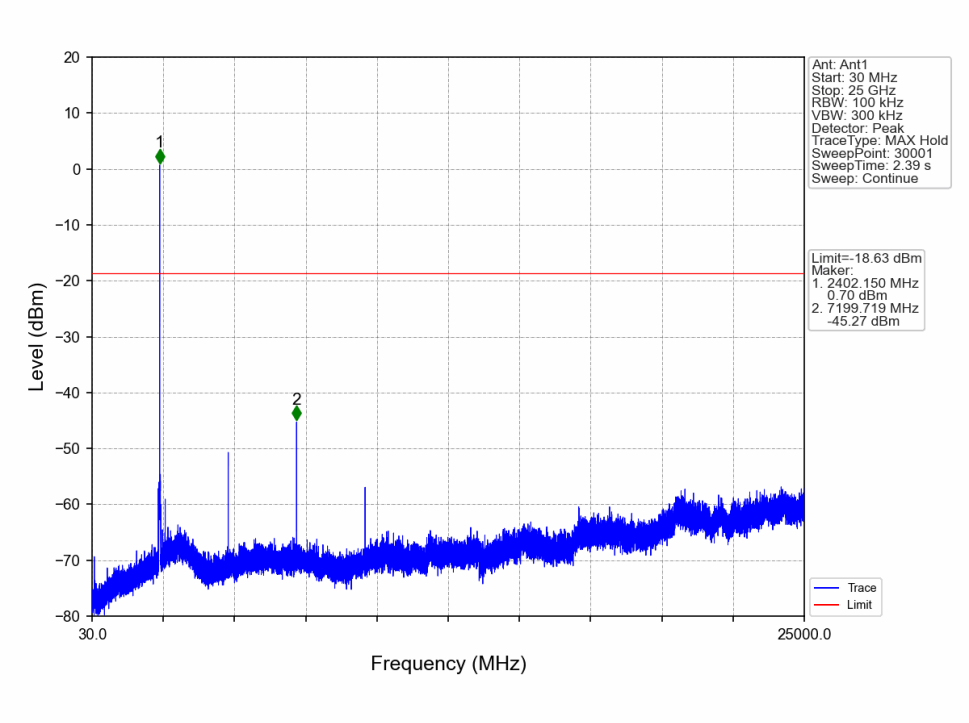
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	1.37	-18.63	Pass
		2441	DH5	1	2.13	-17.87	Pass
		2480	DH5	1	2.60	-17.40	Pass
		HOPP	DH5	1	2.41	-17.59	Pass
					2.41	-17.59	Pass
π/4DQPSK	SISO	2402	2DH5	1	1.26	-18.74	Pass
		2441	2DH5	1	2.09	-17.91	Pass
		2480	2DH5	1	2.46	-17.54	Pass
		HOPP	2DH5	1	2.11	-17.89	Pass
					2.11	-17.89	Pass
8-DPSK	SISO	2402	3DH5	1	1.26	-18.74	Pass
		2441	3DH5	1	2.14	-17.86	Pass
		2480	3DH5	1	2.65	-17.35	Pass
		HOPP	3DH5	1	2.02	-17.98	Pass
					2.02	-17.98	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

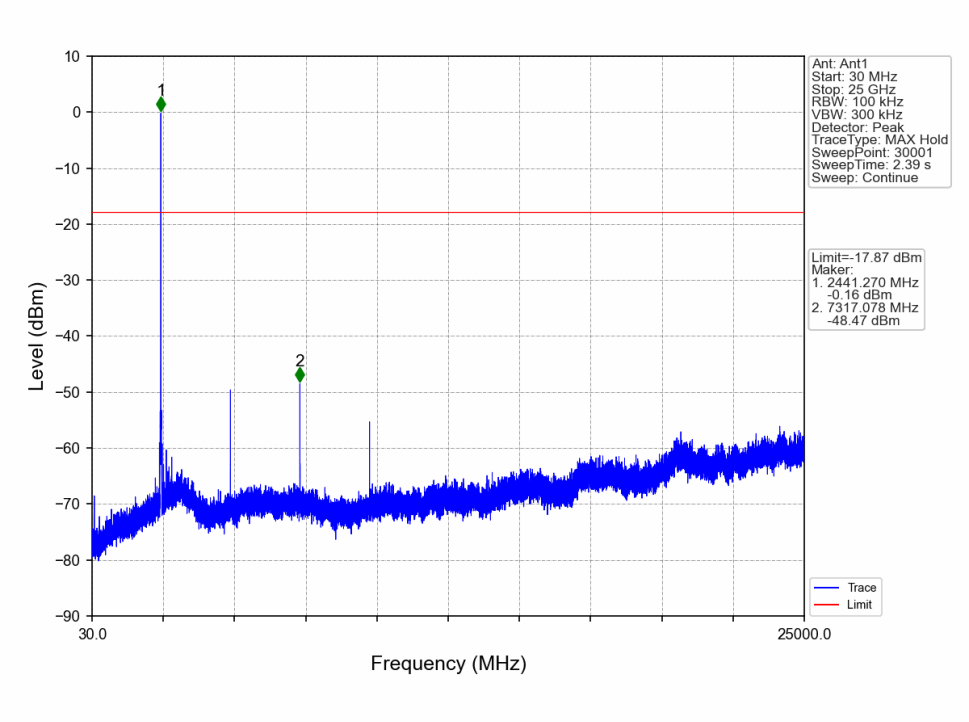
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



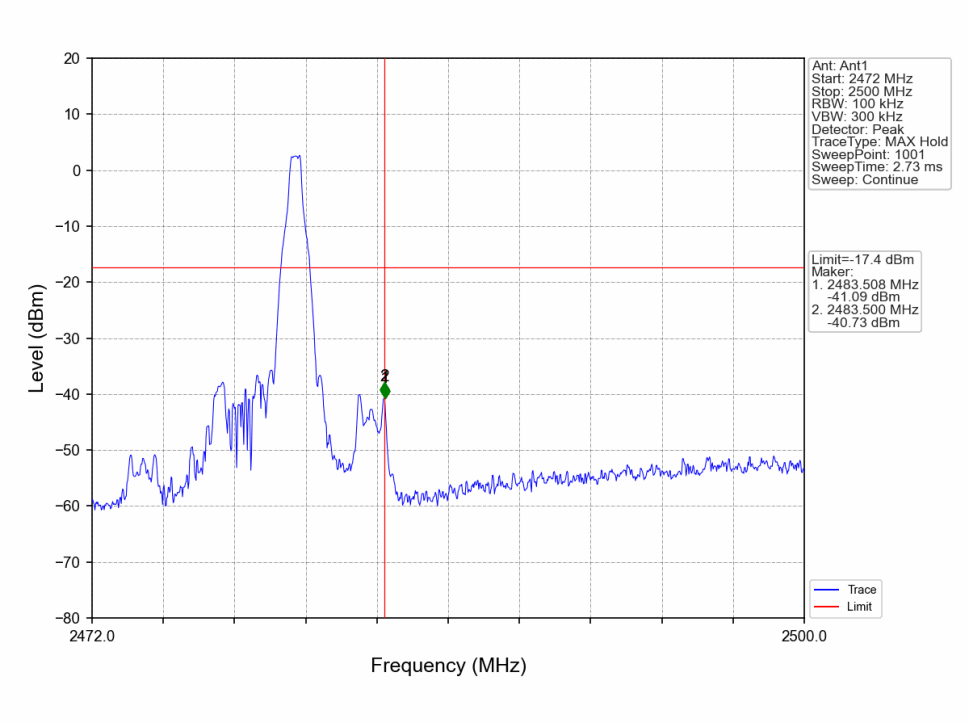
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



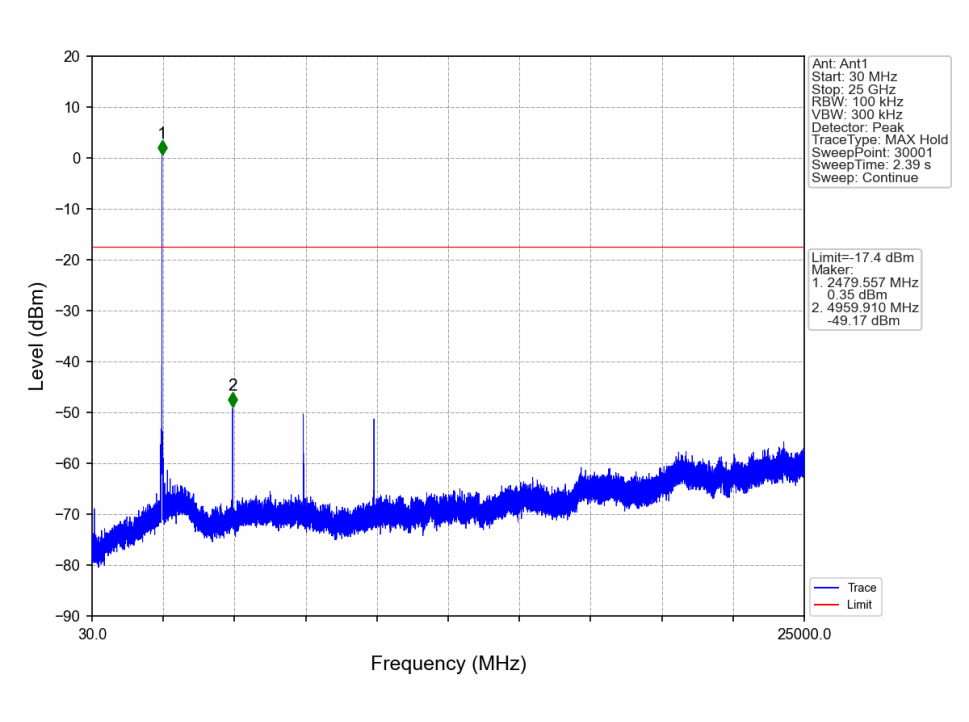
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



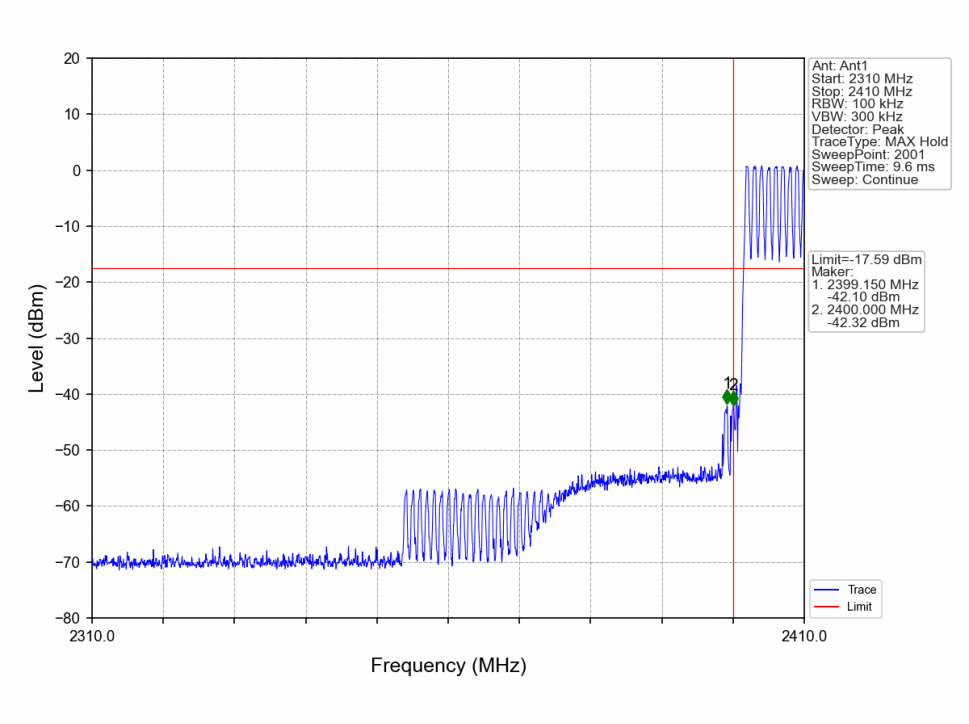
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



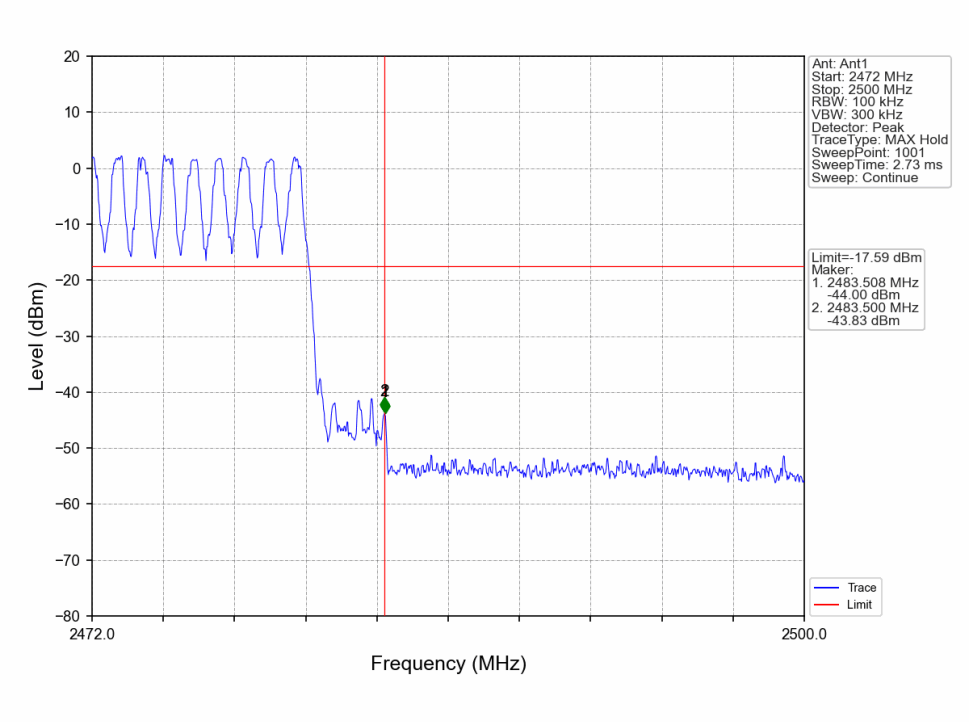
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



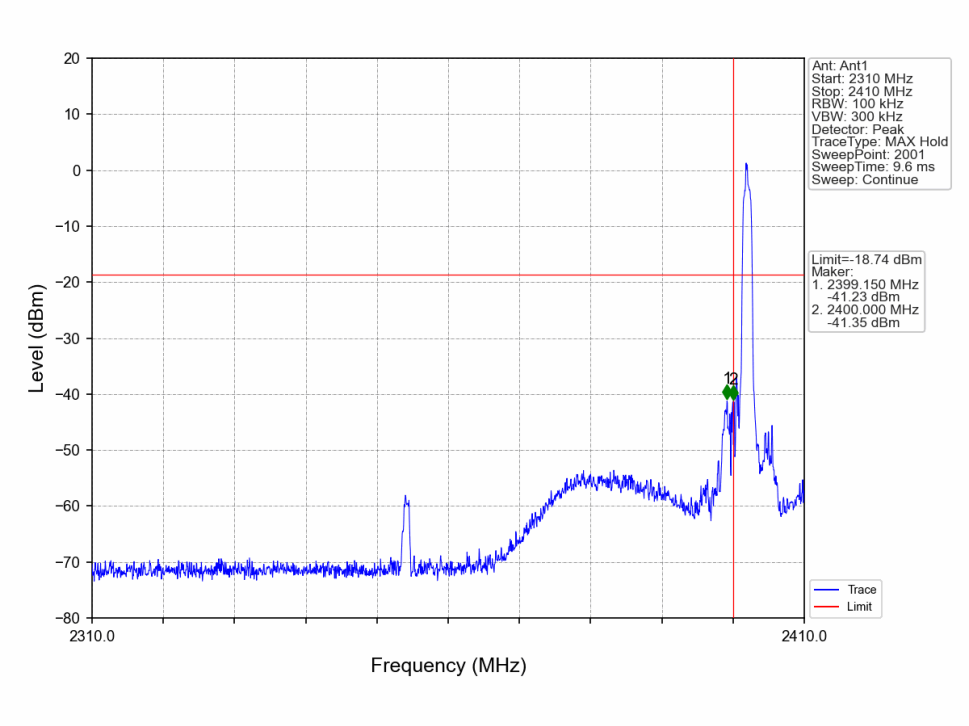
GFSK_DH5_HOPP_Ant1_NTNV



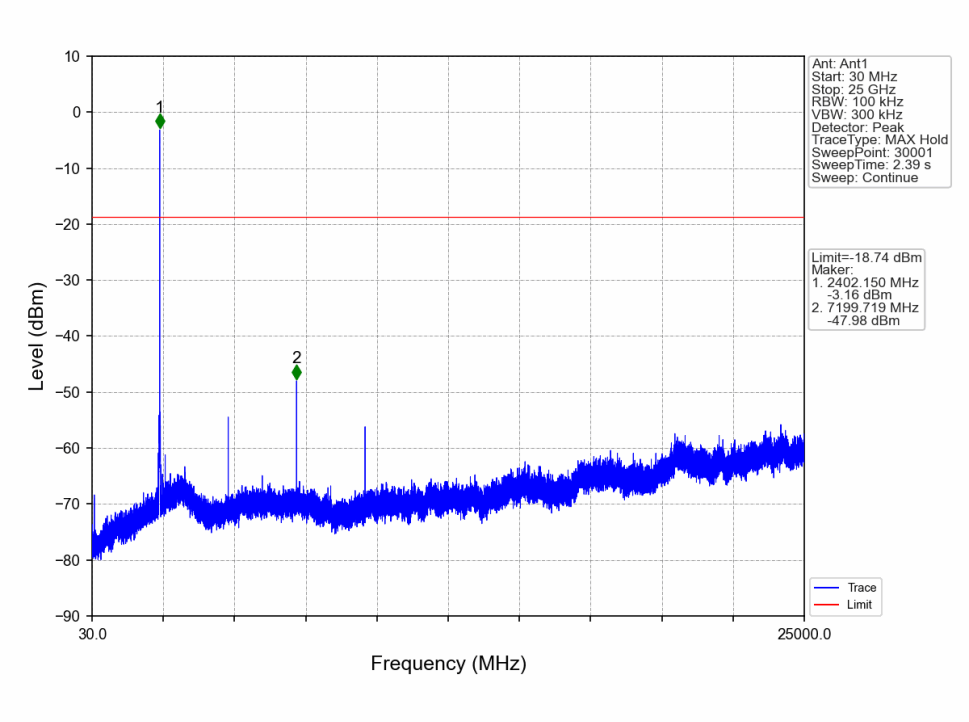
GFSK_DH5_HOPP_Ant1_NTNV



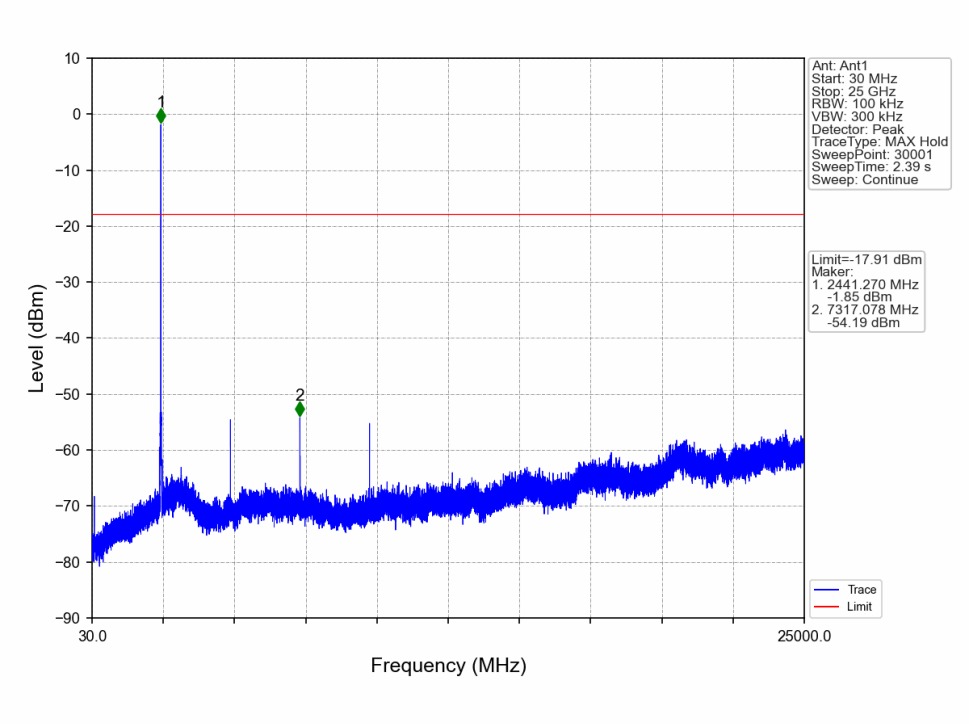
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



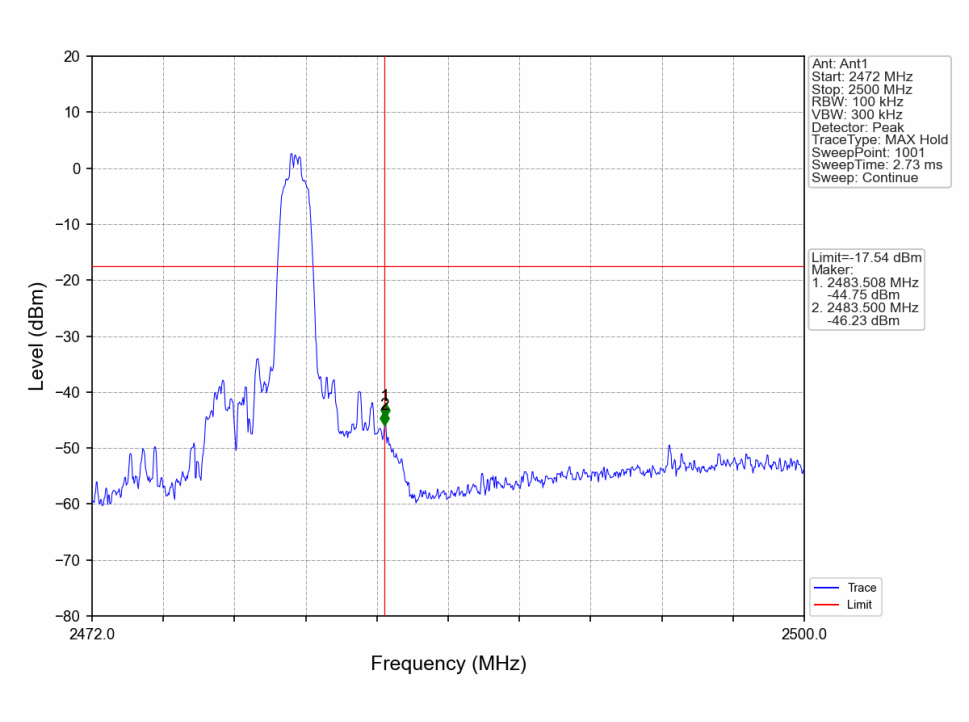
π/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



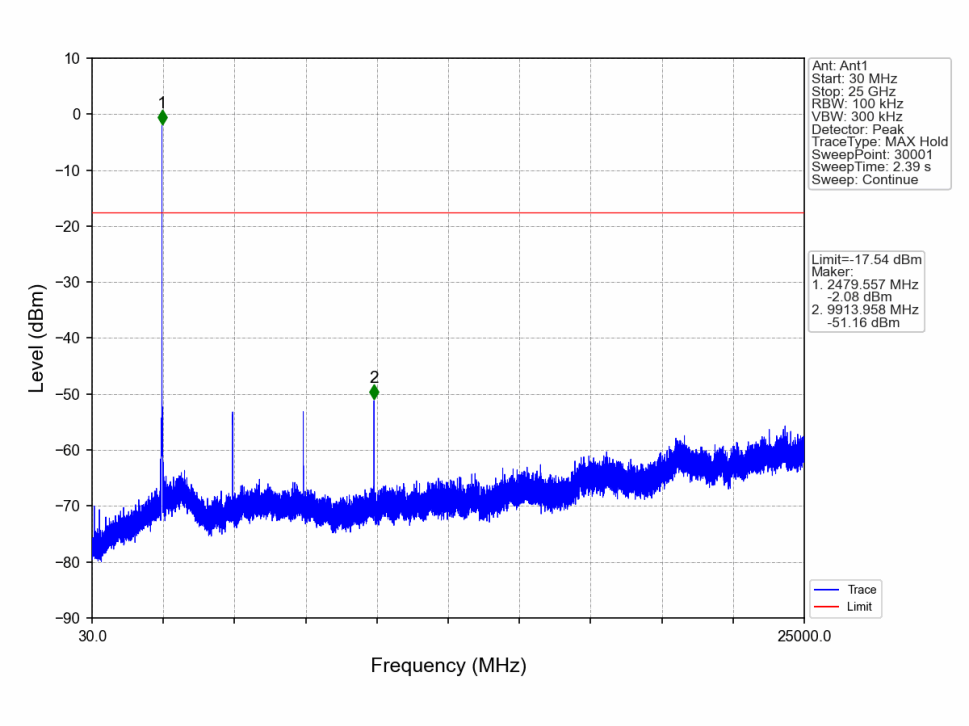
π/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



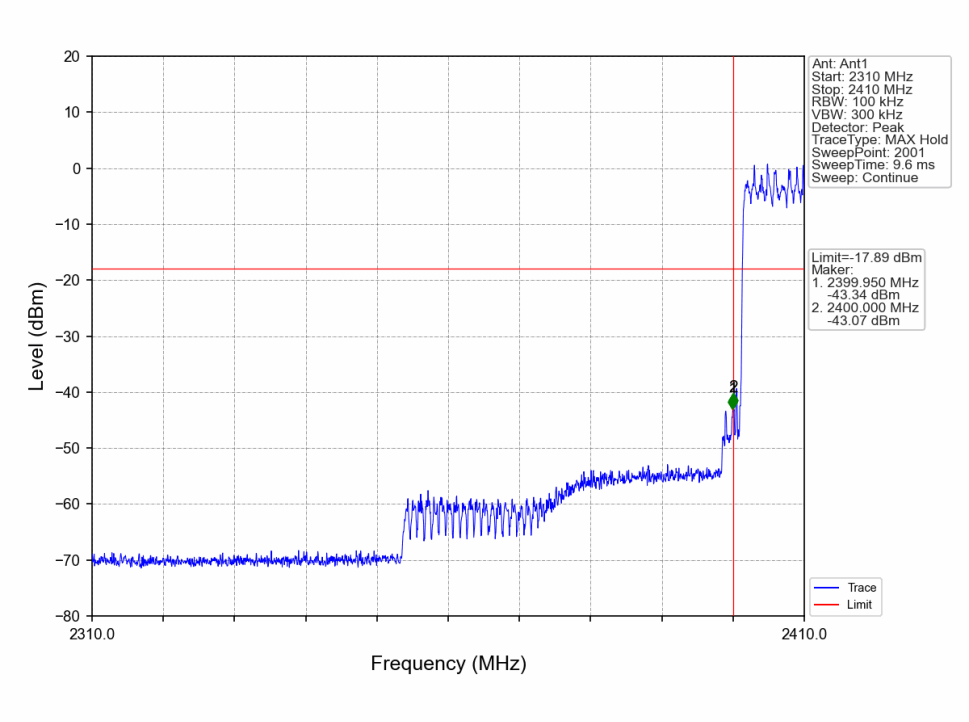
π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



π/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



π/4DQPSK_2DH5_HOPP_Ant1_NTNV



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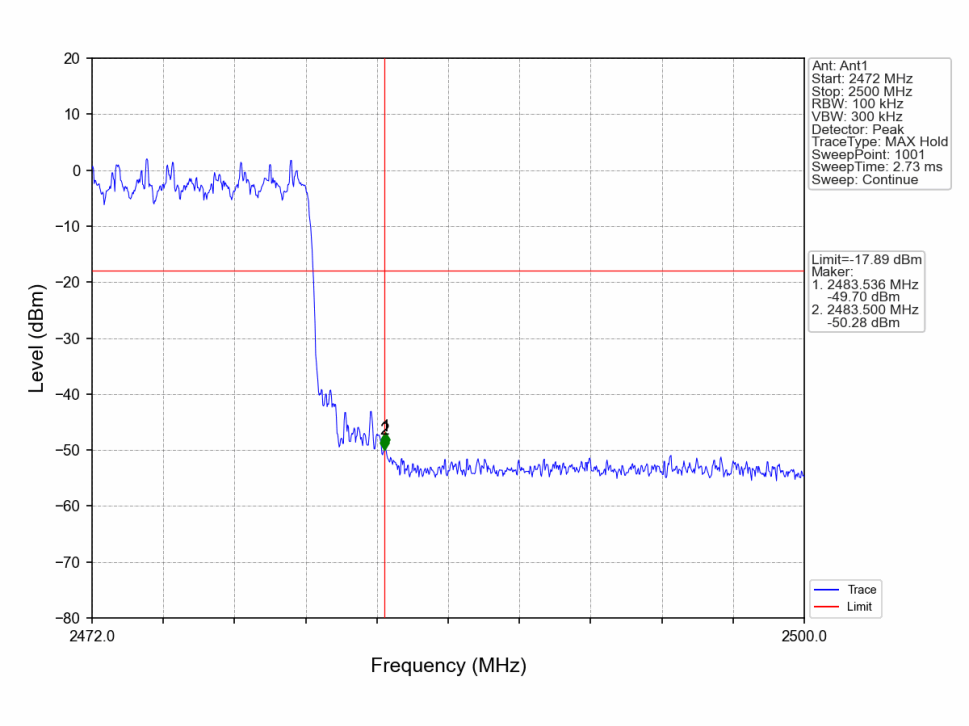
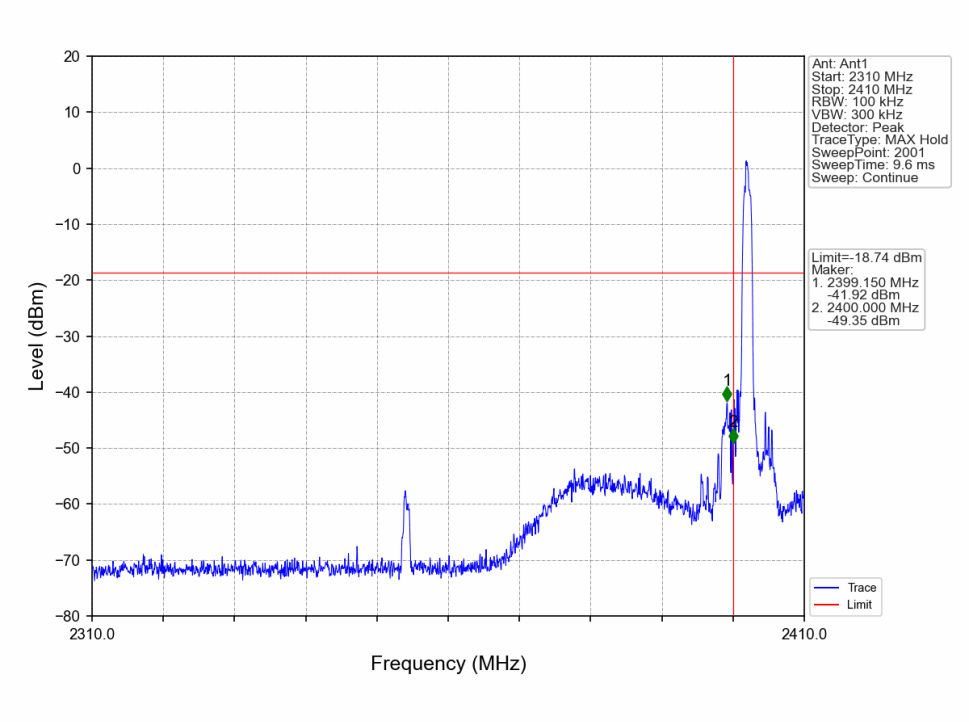
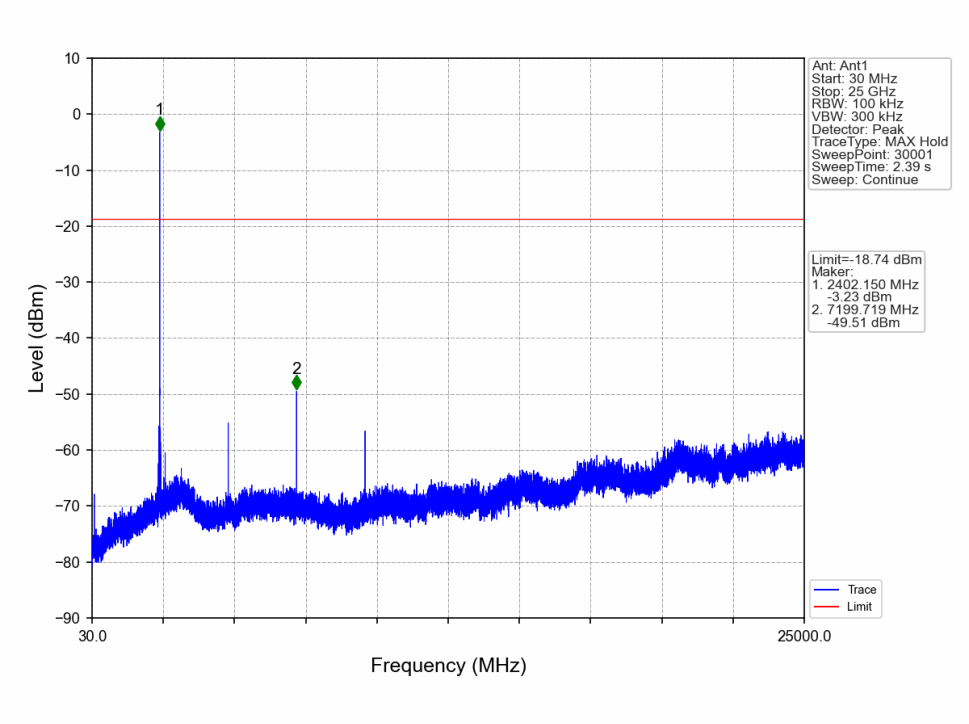


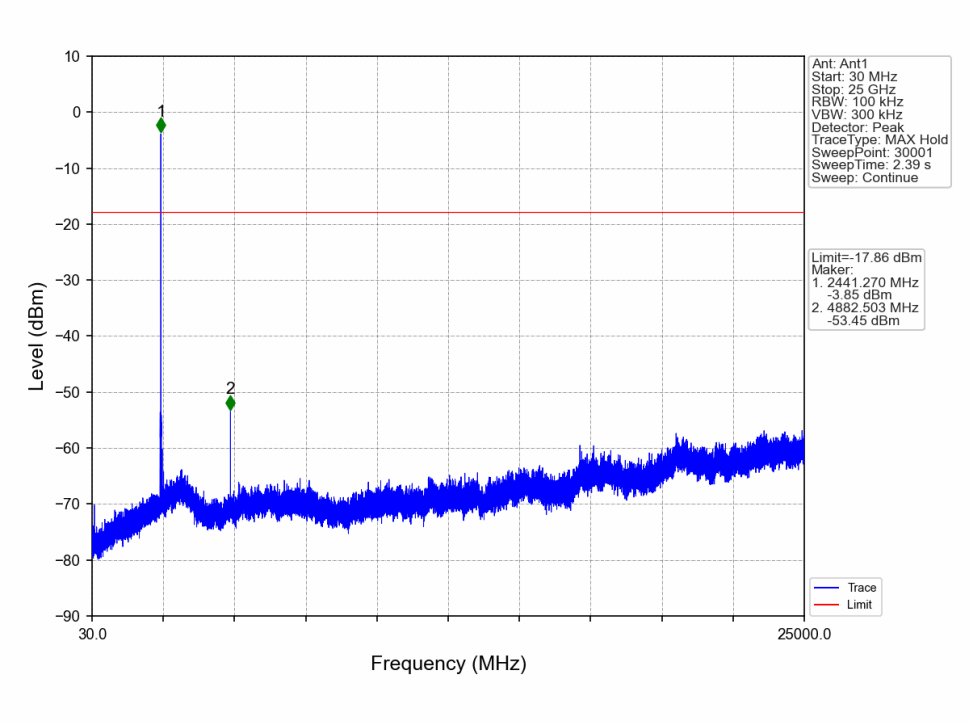
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



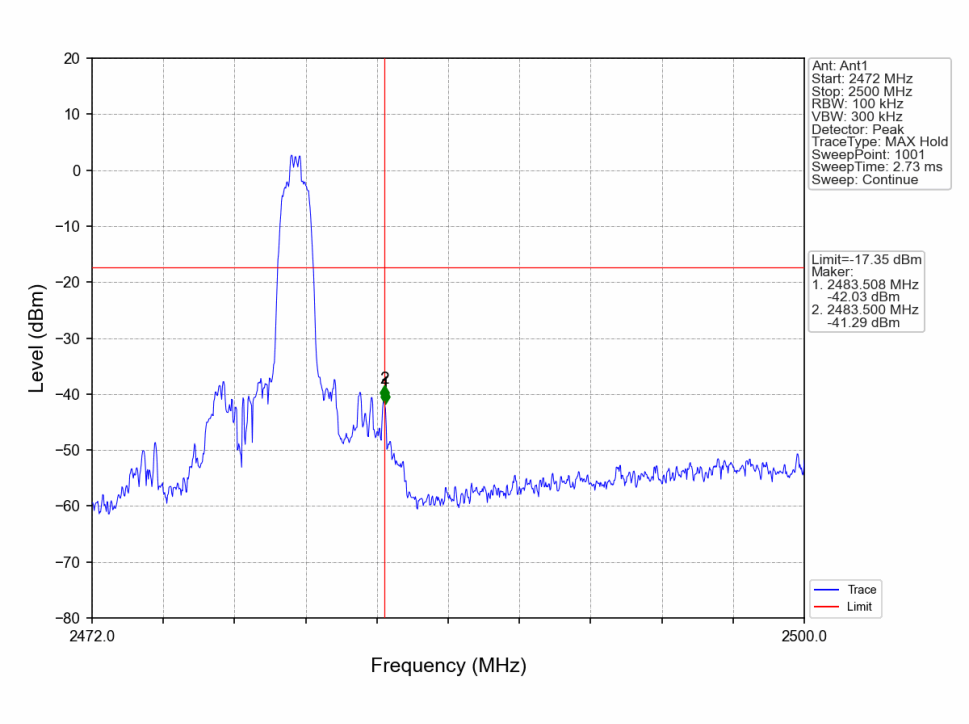
8-DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



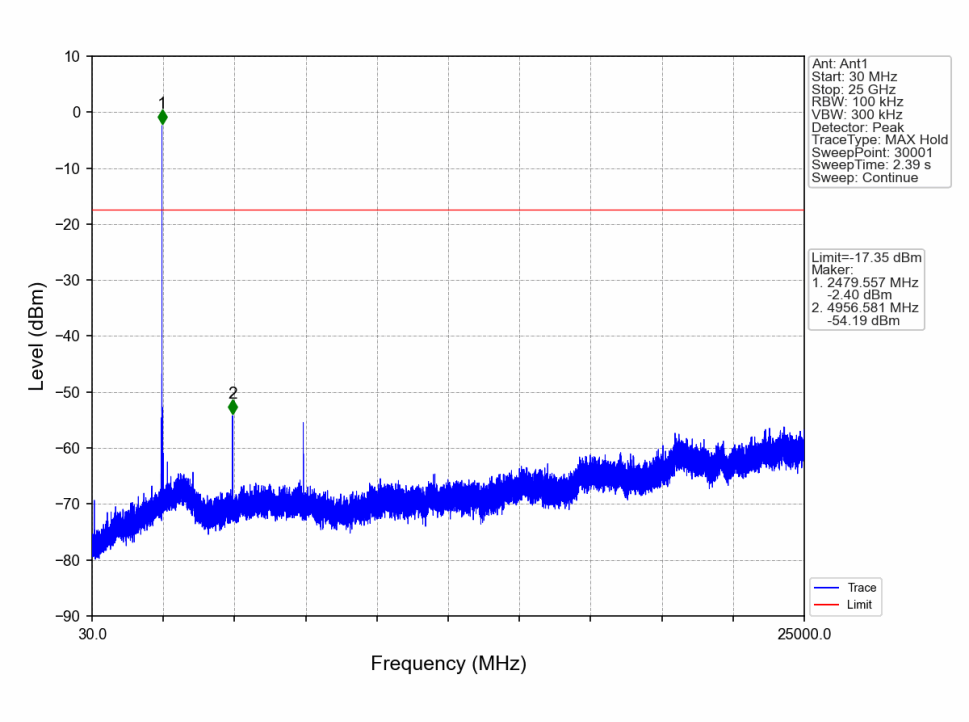
8-DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



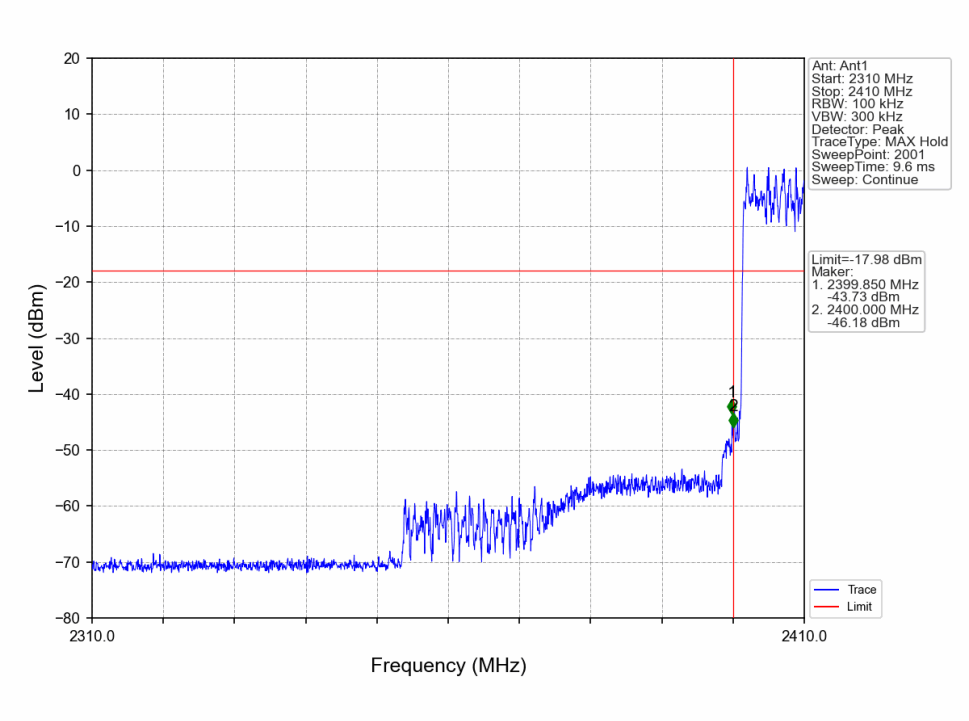
8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV



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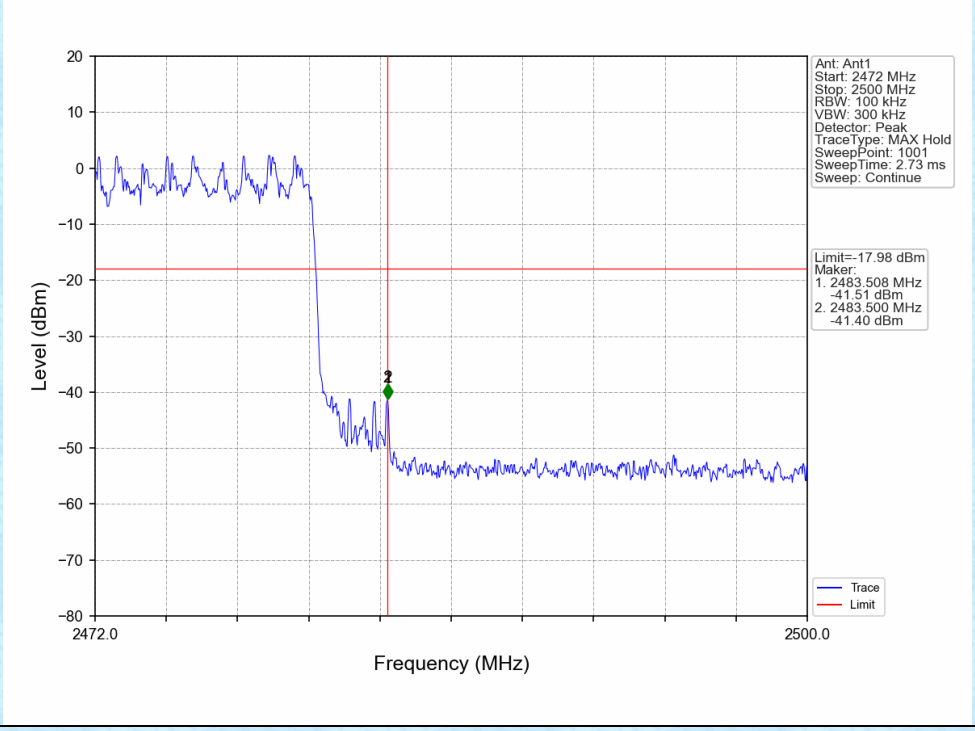

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