Appendix A for SHCR212010005401-BT

1. Bandwidth

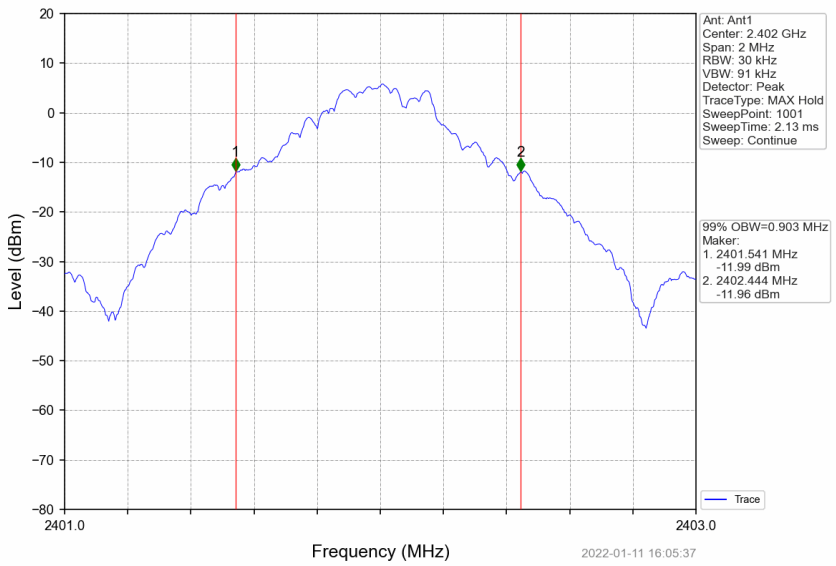
1.1 OBW

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz) Result	Verdict
GFSK	SISO	2402	DH5	1	0.903	Pass
		2441	DH5	1	0.901	Pass
		2480	DH5	1	0.901	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.170	Pass
		2441	2DH5	1	1.171	Pass
		2480	2DH5	1	1.170	Pass
8DPSK	SISO	2402	3DH5	1	1.177	Pass
		2441	3DH5	1	1.175	Pass
		2480	3DH5	1	1.176	Pass

1.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

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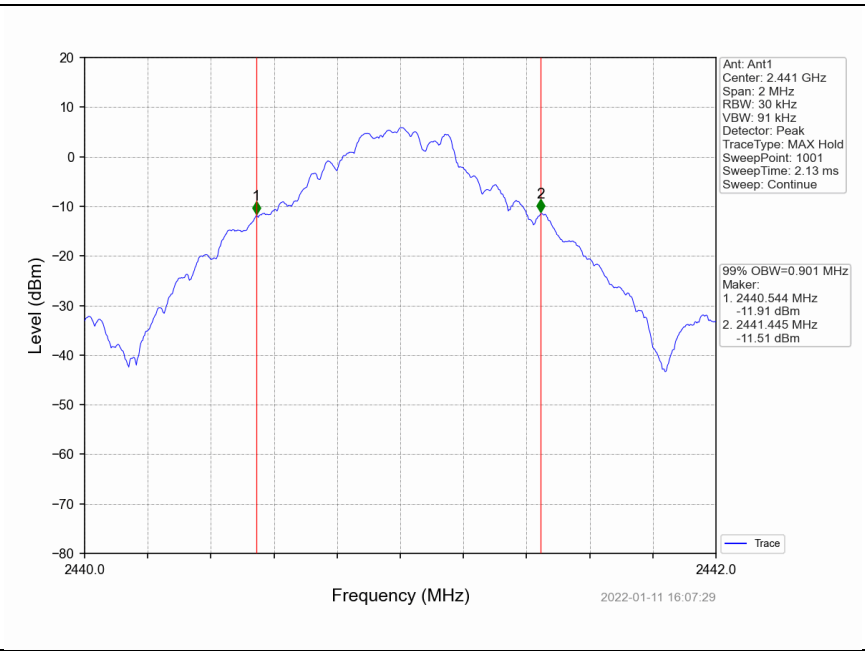
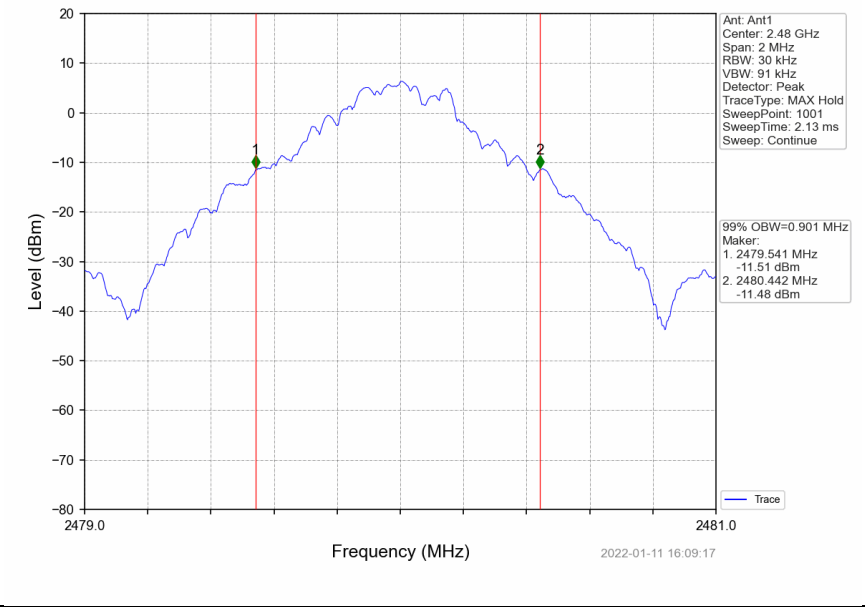


GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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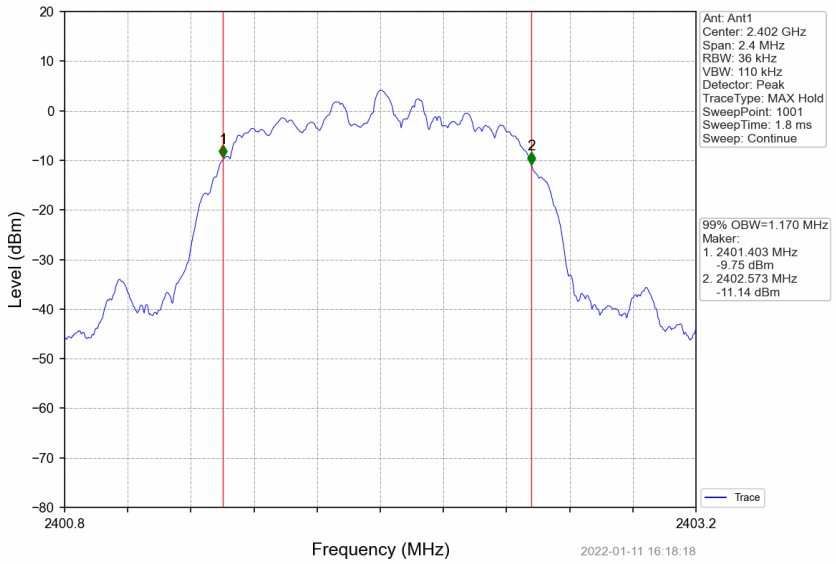
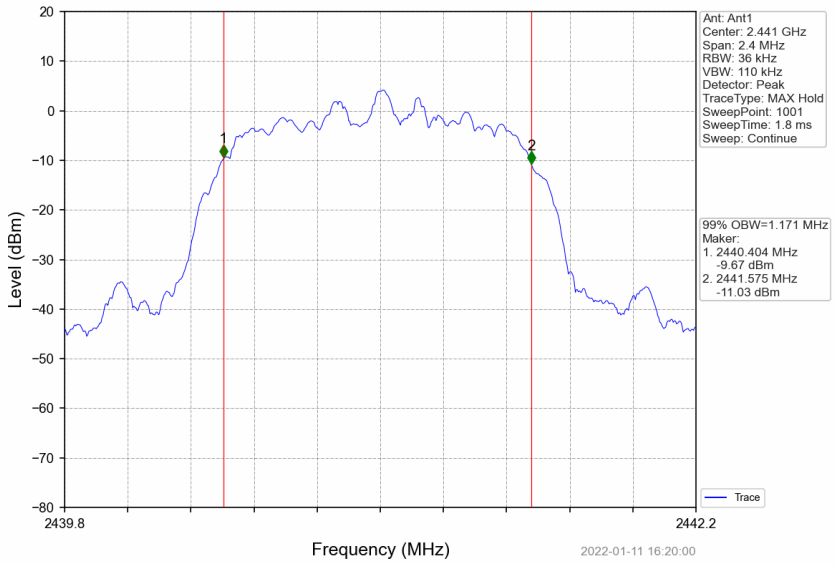


Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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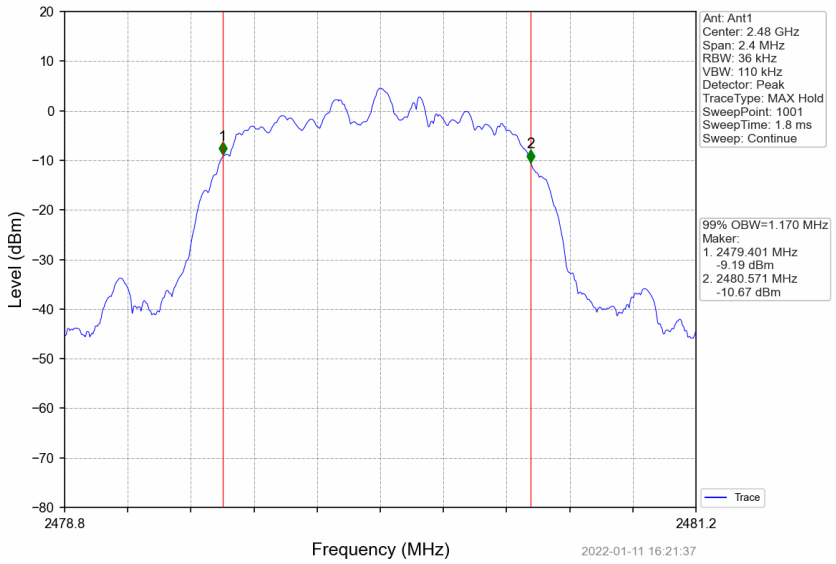
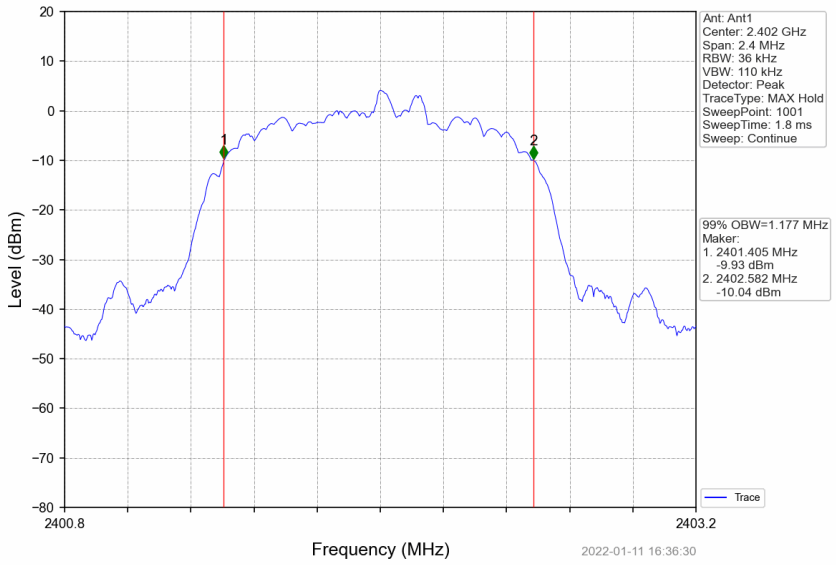


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

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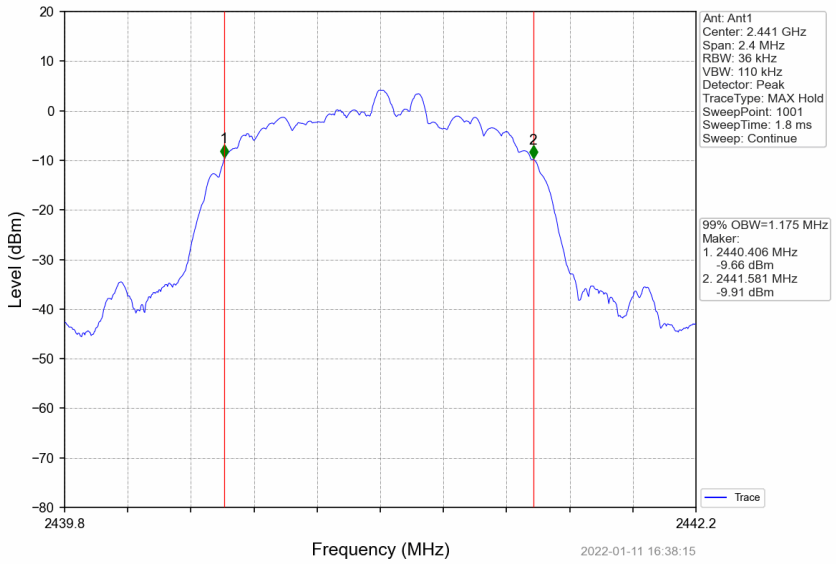
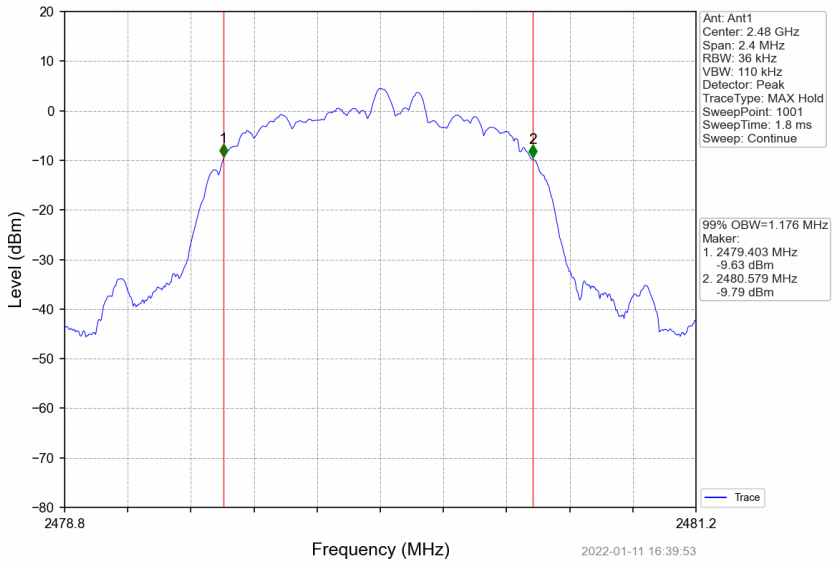


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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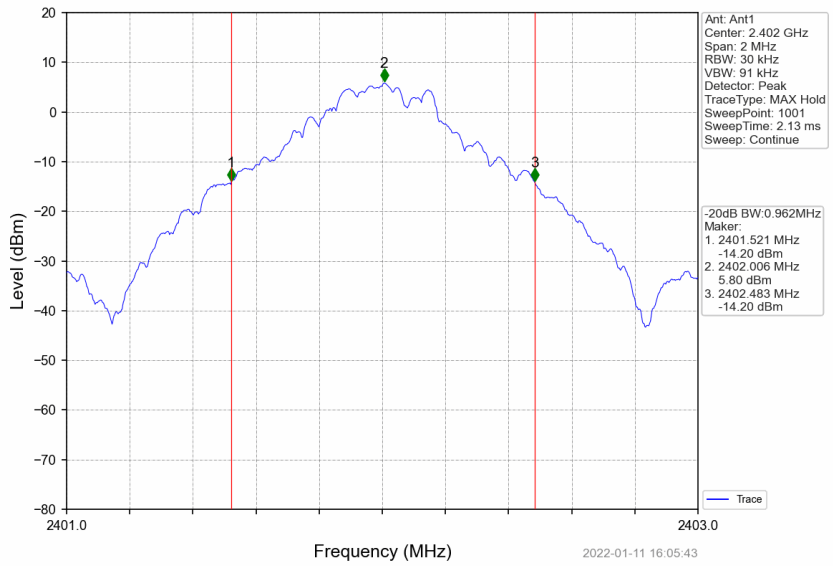
1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz) Result	Verdict
GFSK	SISO	2402	DH5	1	0.962	Pass
		2441	DH5	1	0.964	Pass
		2480	DH5	1	0.965	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.290	Pass
		2441	2DH5	1	1.292	Pass
		2480	2DH5	1	1.290	Pass
8DPSK	SISO	2402	3DH5	1	1.304	Pass
		2441	3DH5	1	1.303	Pass
		2480	3DH5	1	1.303	Pass

1.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

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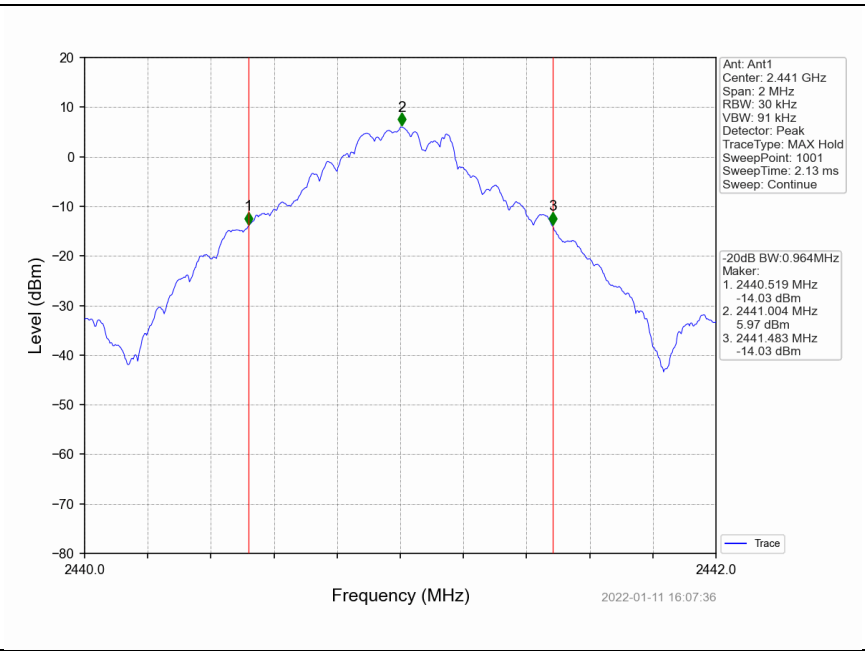
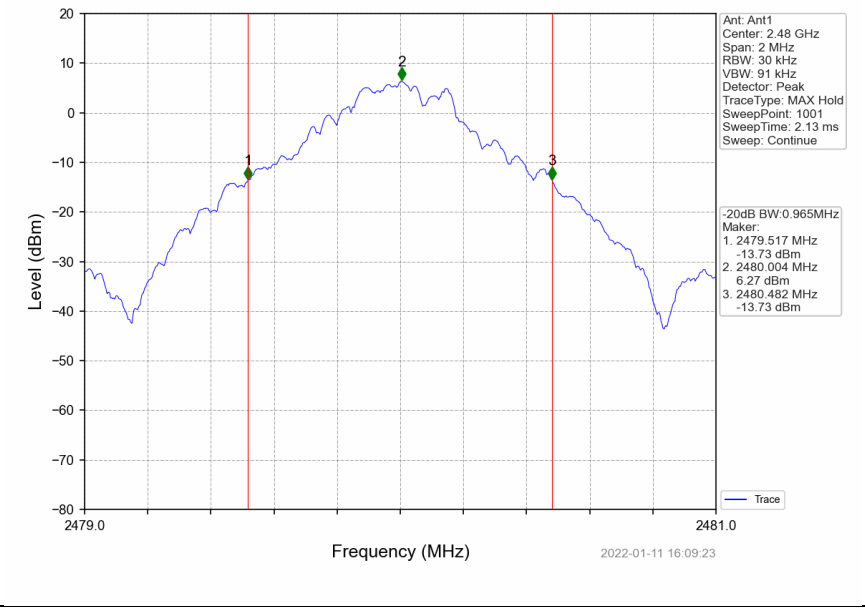


GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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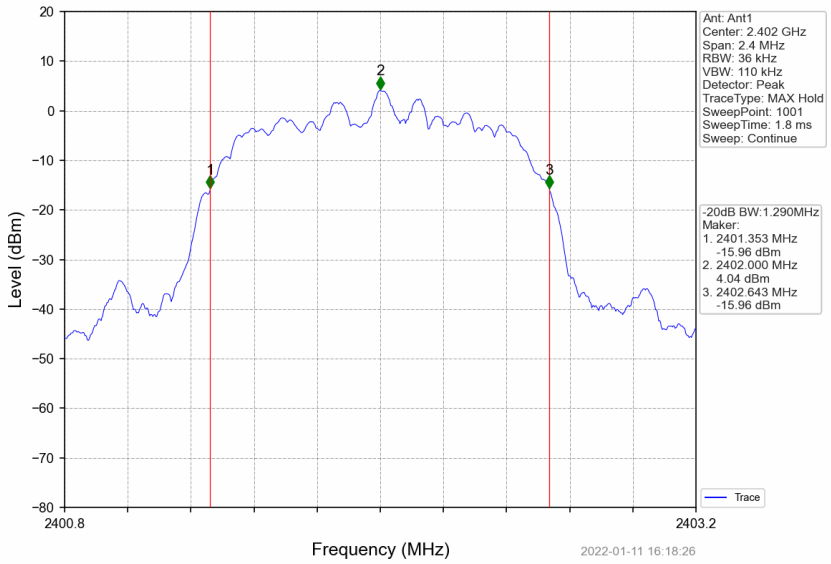
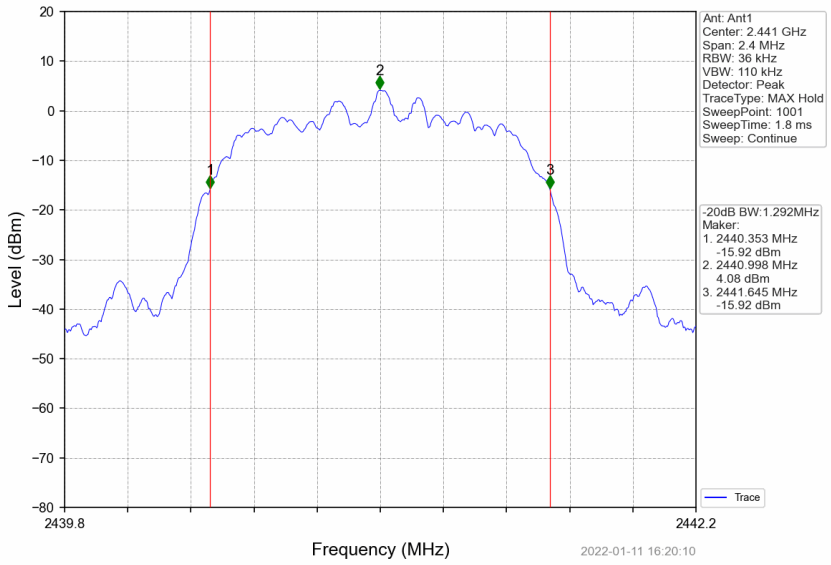


Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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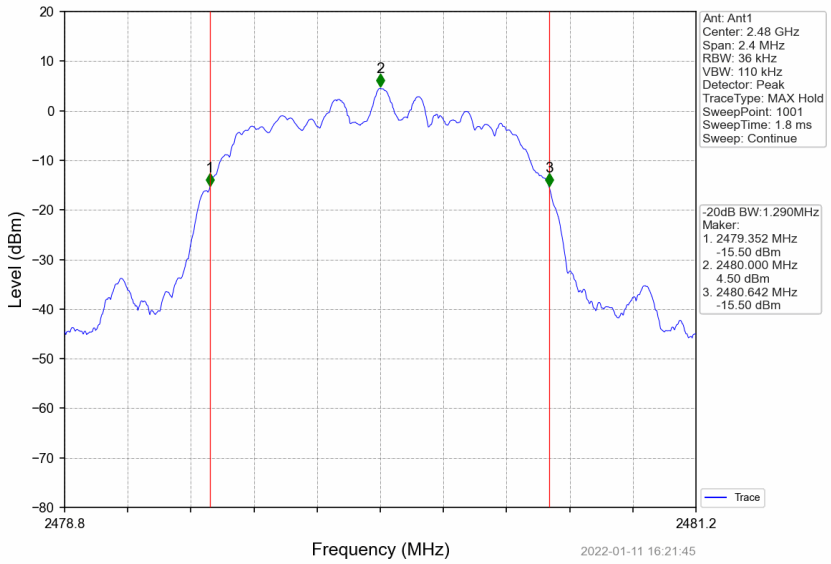
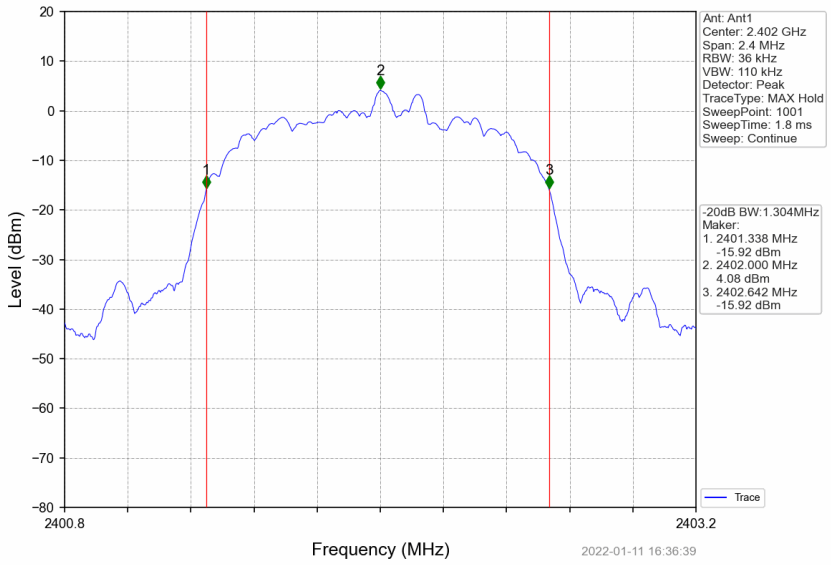


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

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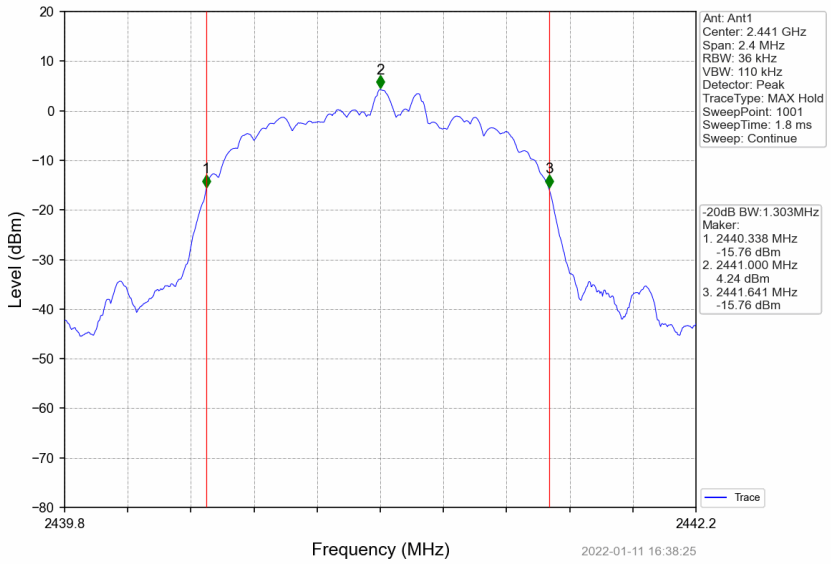

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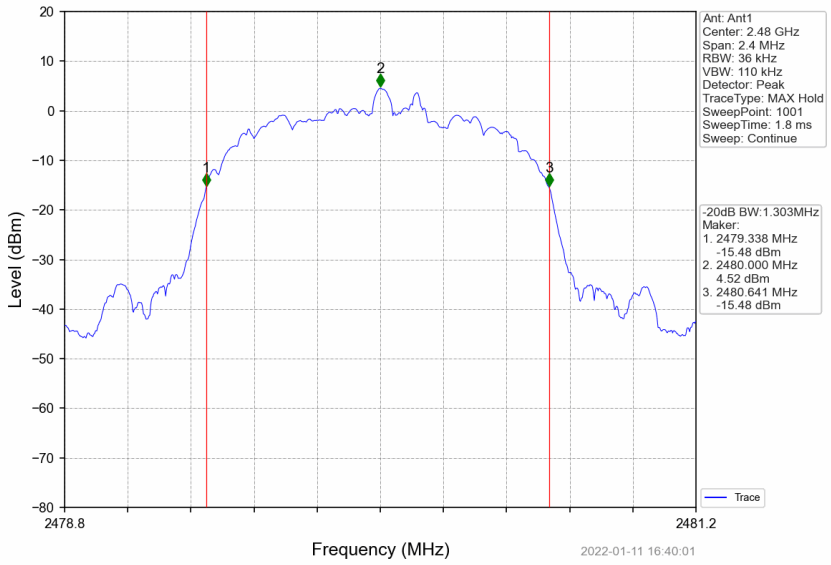

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2. Maximum Conducted Output Power

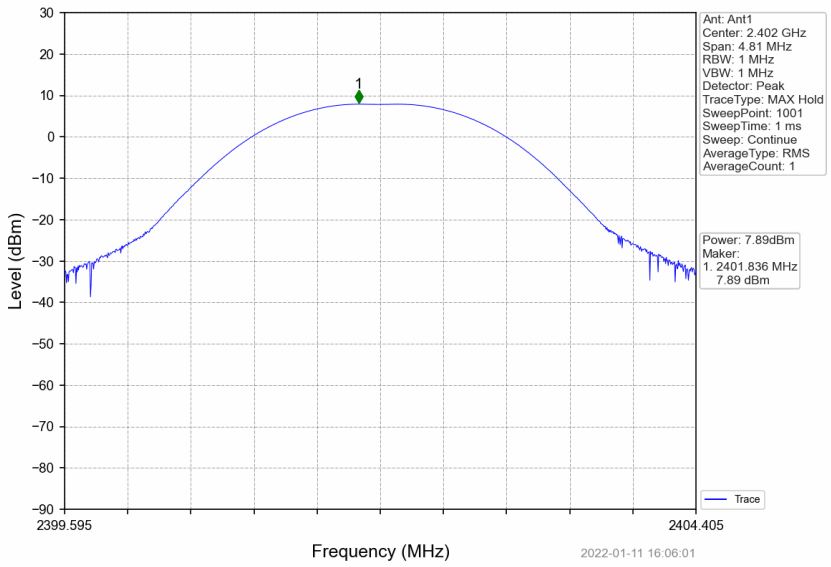
2.1 Power

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	7.89	<=30	Pass
		2441	DH5	8.01	<=30	Pass
		2480	DH5	8.36	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	7.86	<=20.97	Pass
		2441	2DH5	7.99	<=20.97	Pass
		2480	2DH5	8.28	<=20.97	Pass
8DPSK	SISO	2402	3DH5	8.15	<=20.97	Pass
		2441	3DH5	8.28	<=20.97	Pass
		2480	3DH5	8.58	<=20.97	Pass
Note1: Antenna Gain: Ant1: -3.52dBi;						

2.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

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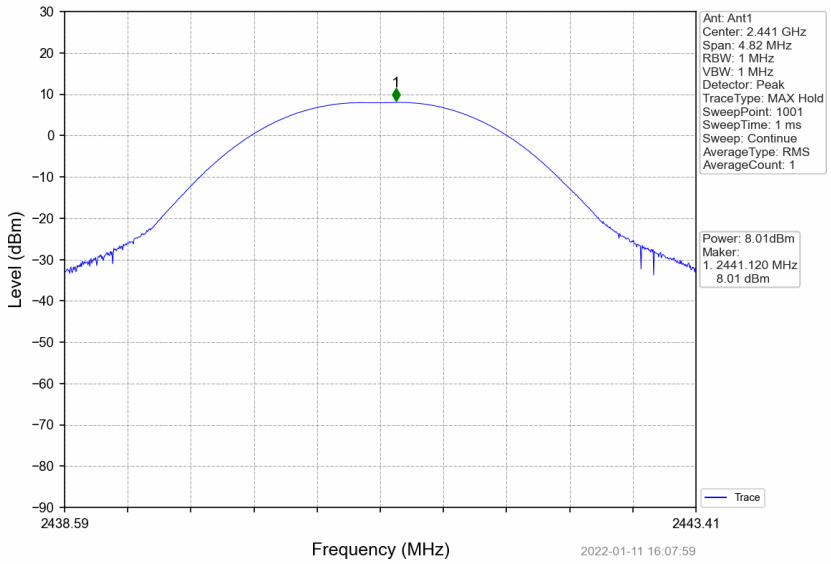
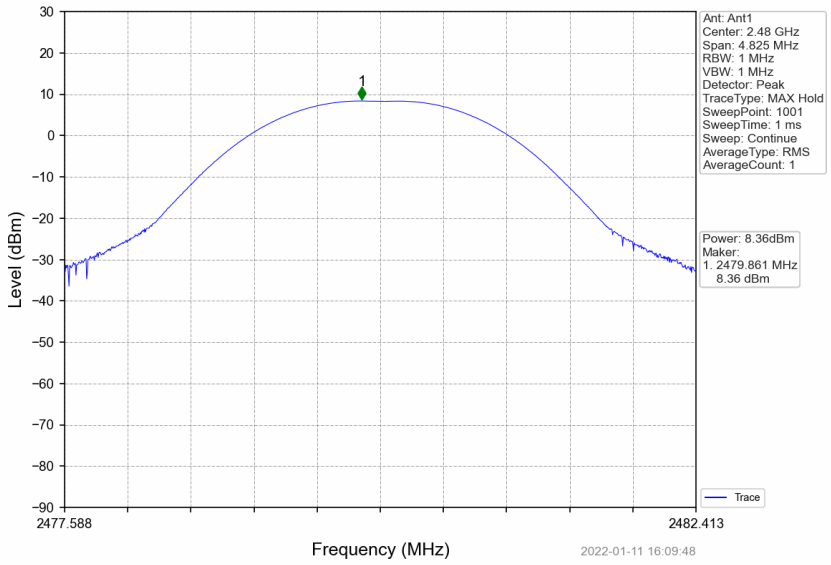


GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

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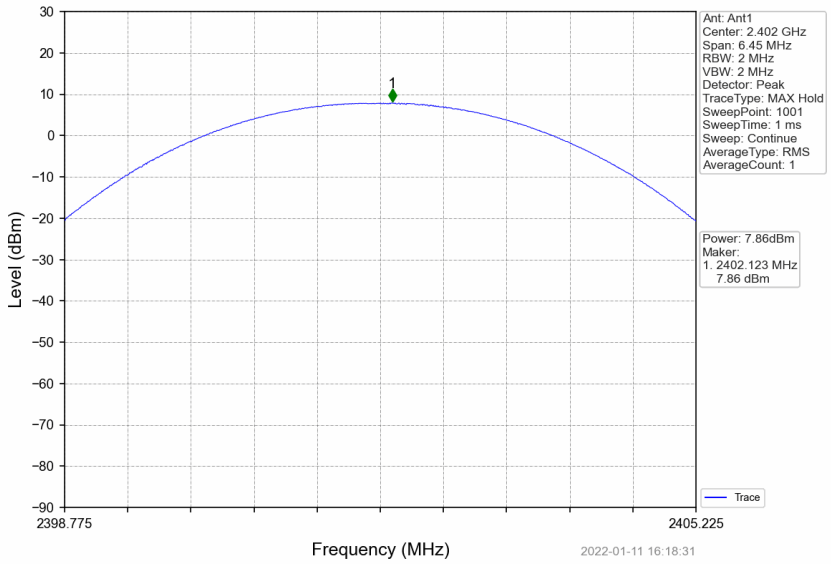

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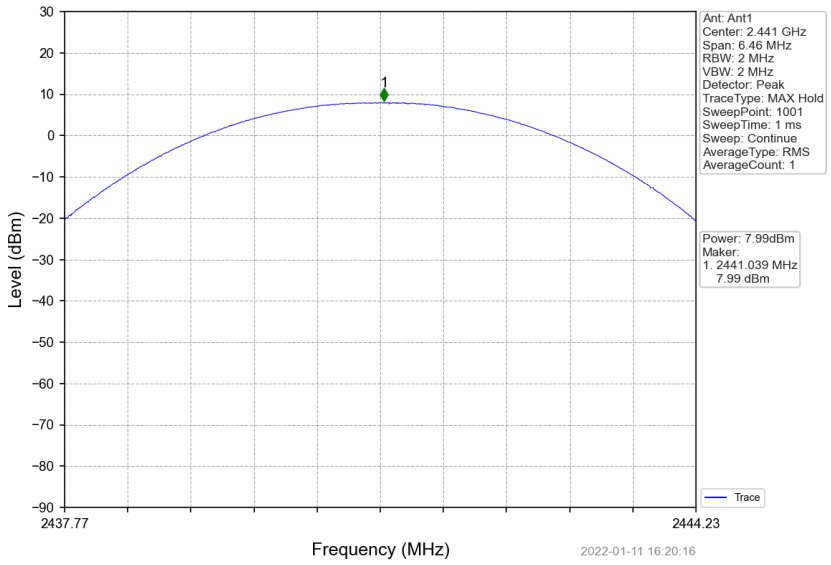

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

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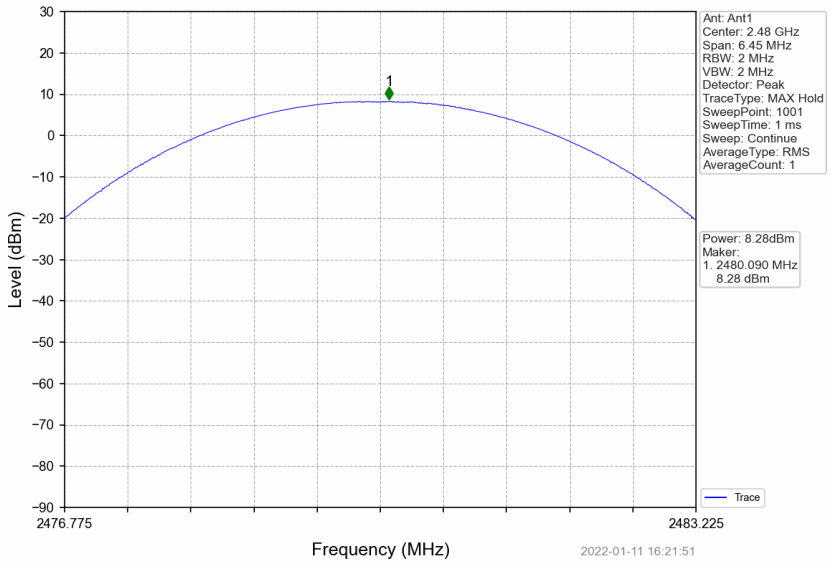
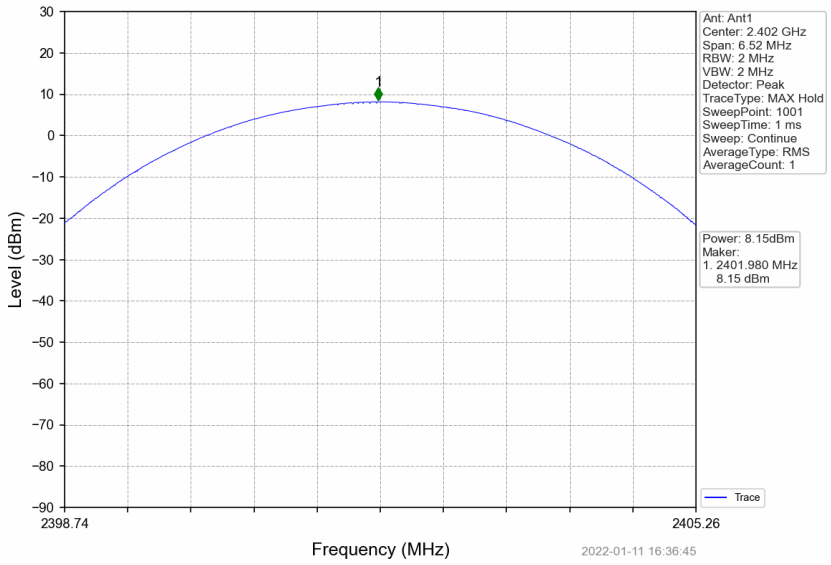


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

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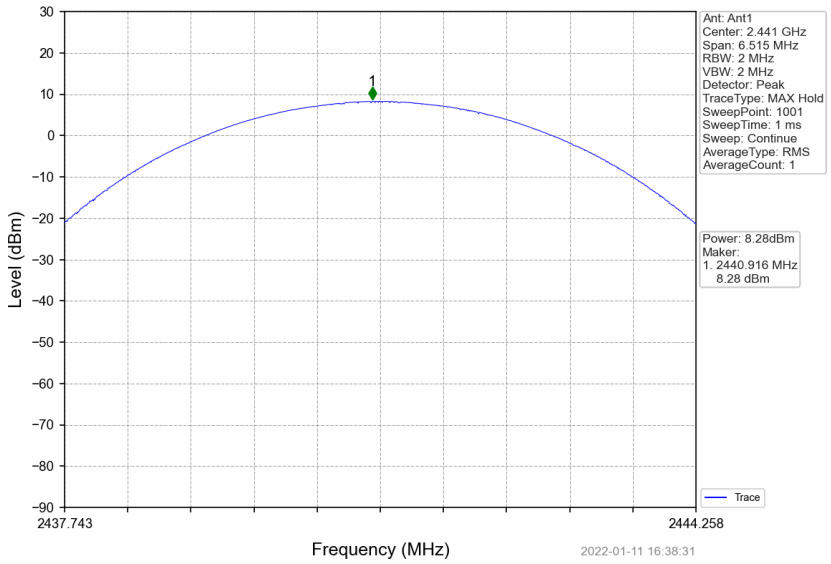

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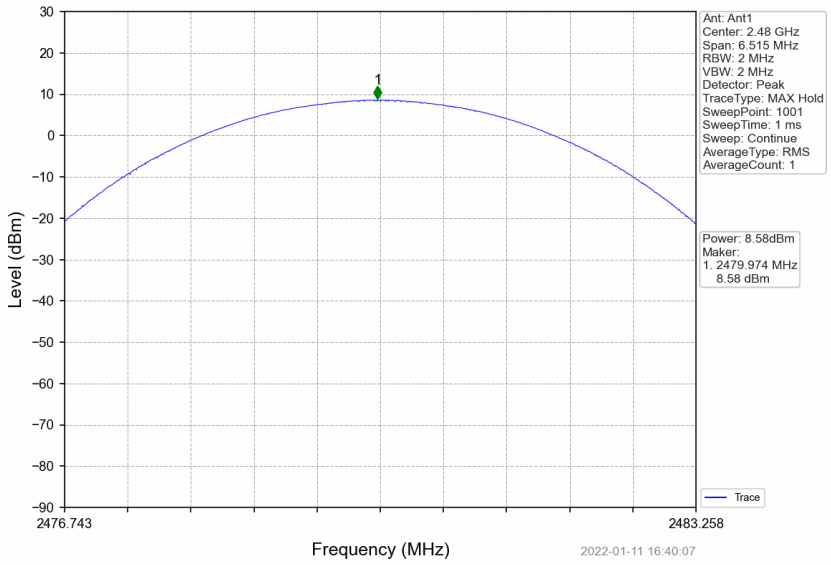

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3. Carrier Frequency Separation

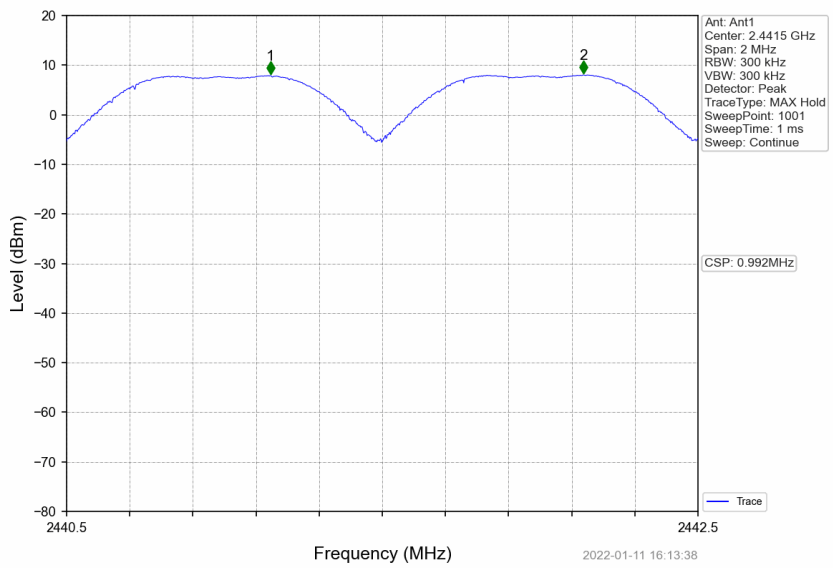
3.1 Ant1

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	0.965	>=0.965	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.292	>=0.861	Pass
8DPSK	SISO	HOPP	3DH5	0.960	1.304	>=0.869	Pass

3.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

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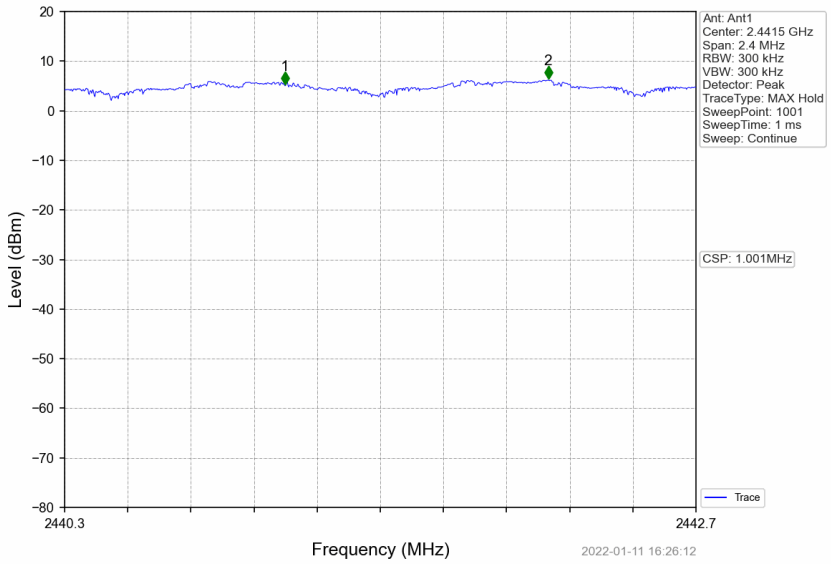
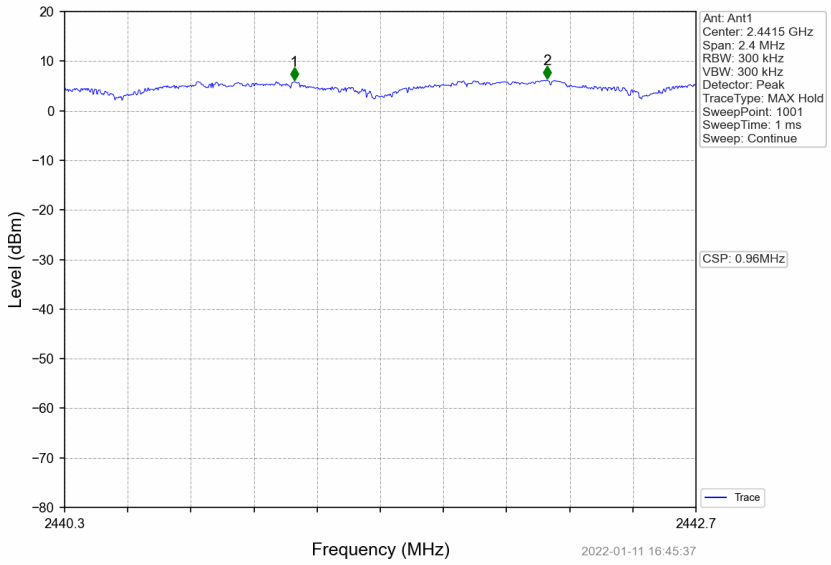


8DPSK_3DH5_HOPP_Ant1_NTNV



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4. Number of Hopping Frequencies

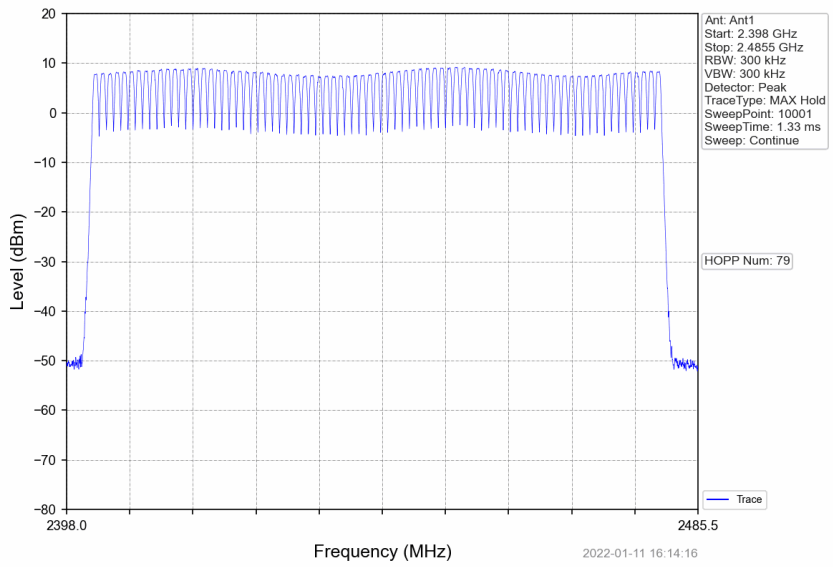
4.1 HoppNum

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

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

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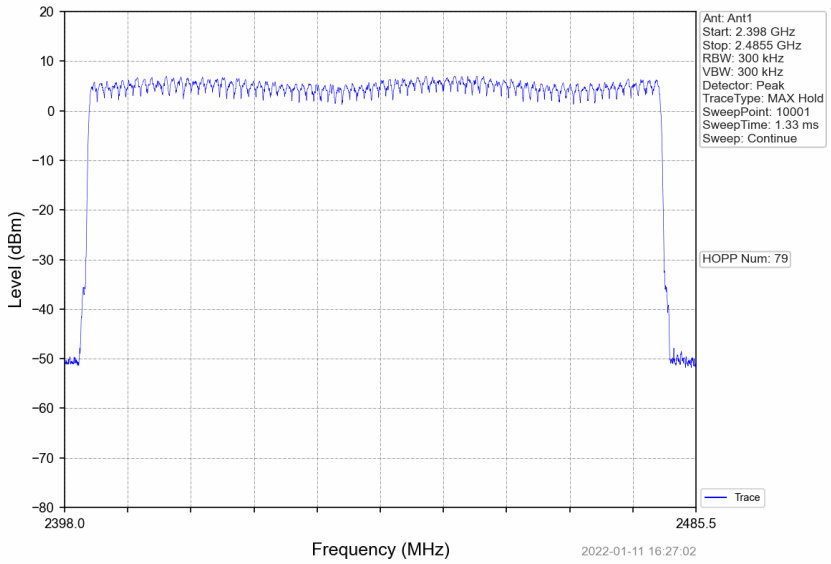
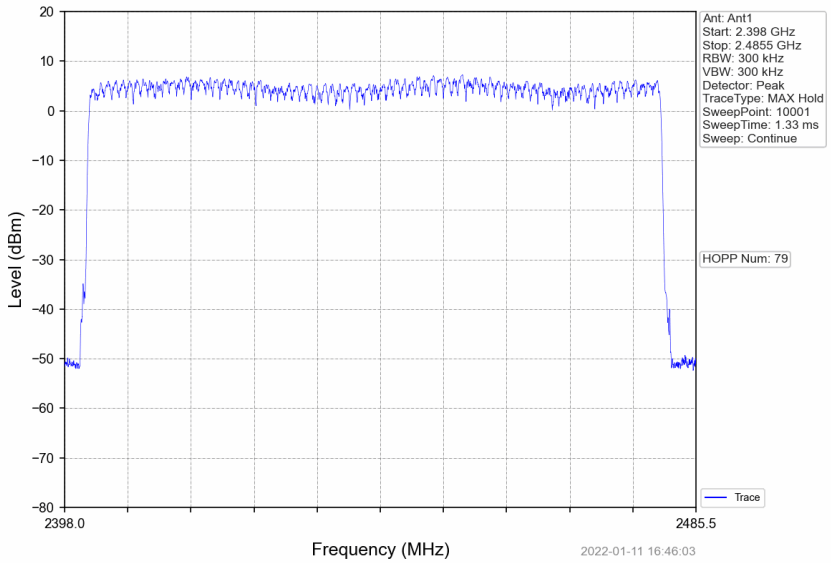


8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

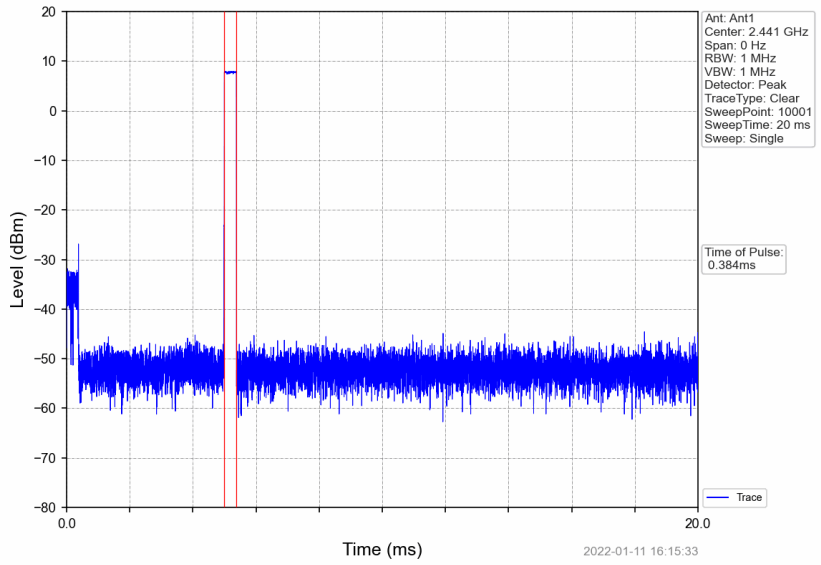
5.1 Ant1

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	1.638	31.600	160	262.080	<=400	Pass
			DH5	2.886	31.600	104	300.144	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.640	31.600	153	250.920	<=400	Pass
			2DH5	2.888	31.600	114	329.232	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.388	31.600	320	124.160	<=400	Pass
			3DH3	1.638	31.600	150	245.700	<=400	Pass
			3DH5	2.890	31.600	110	317.900	<=400	Pass

5.1.2 Test Graph

GFSK_DH1_HOPP_Ant1_NTNV



GFSK_DH1_HOPP_Ant1_NTNV

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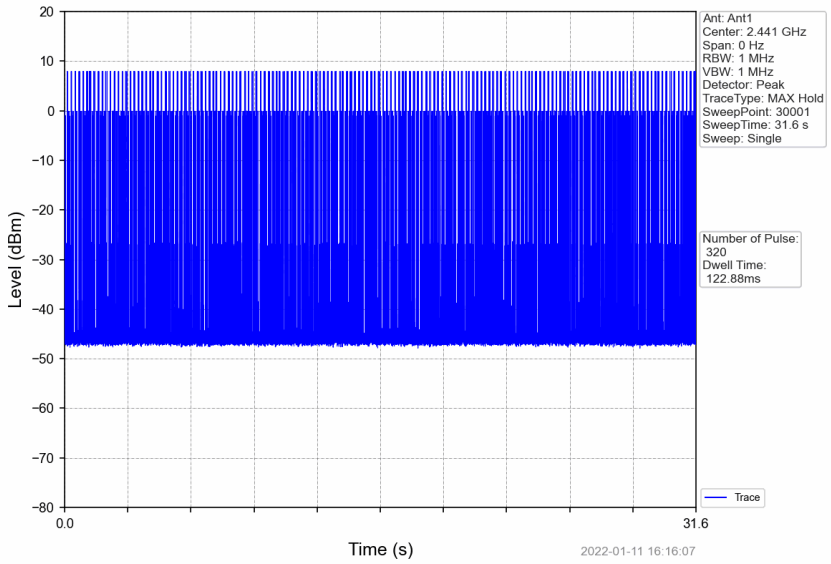
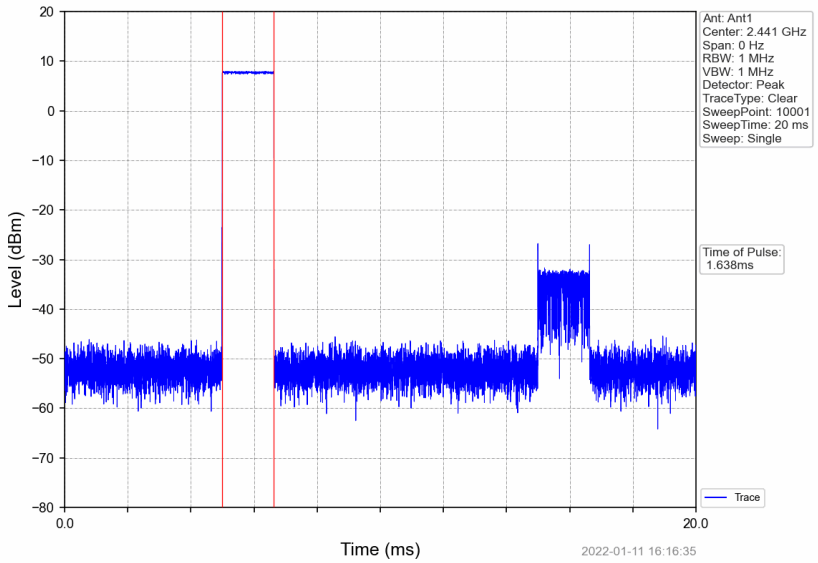


GFSK_DH3_HOPP_Ant1_NTNV



GFSK_DH3_HOPP_Ant1_NTNV

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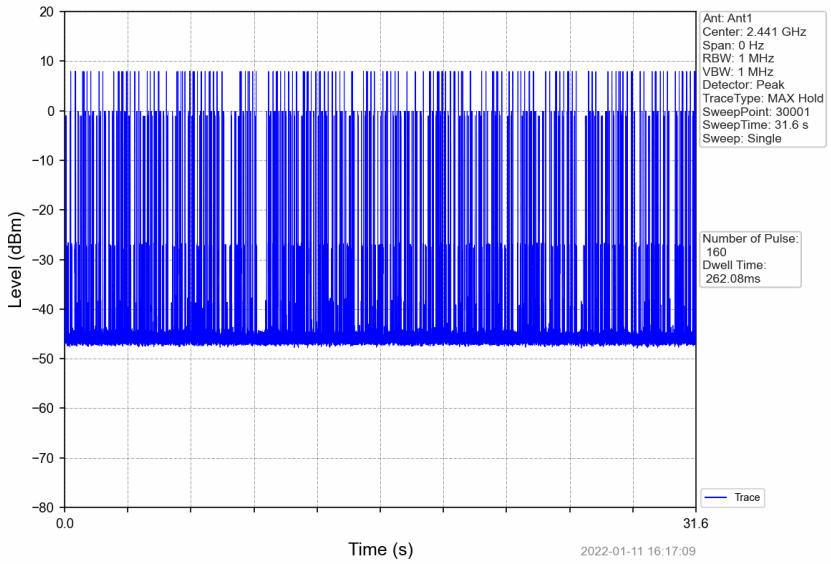

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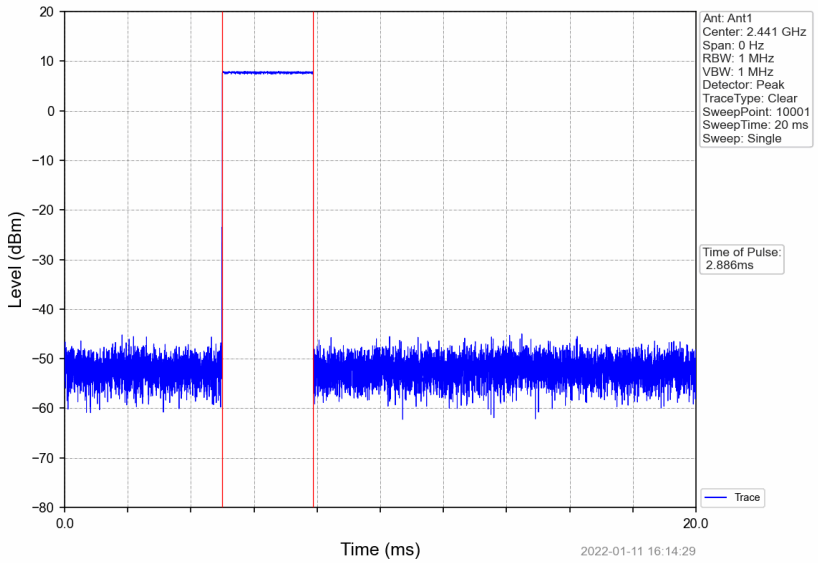

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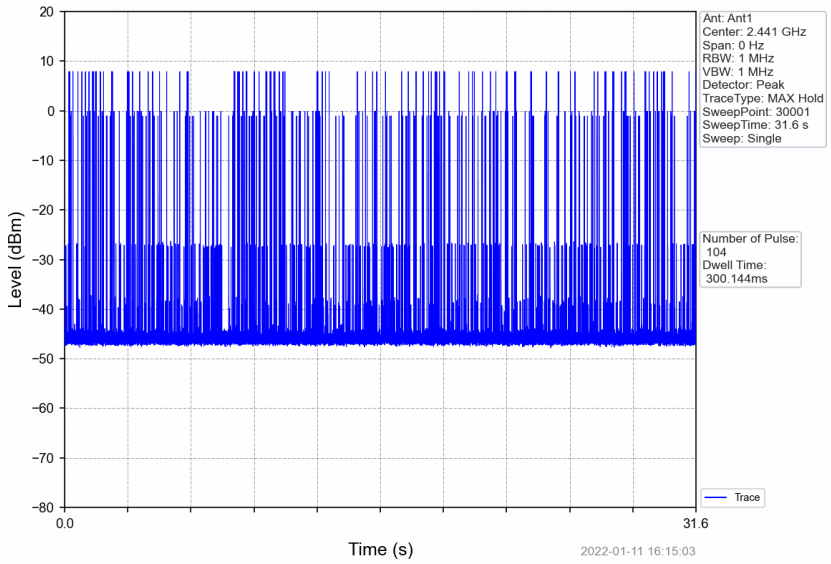

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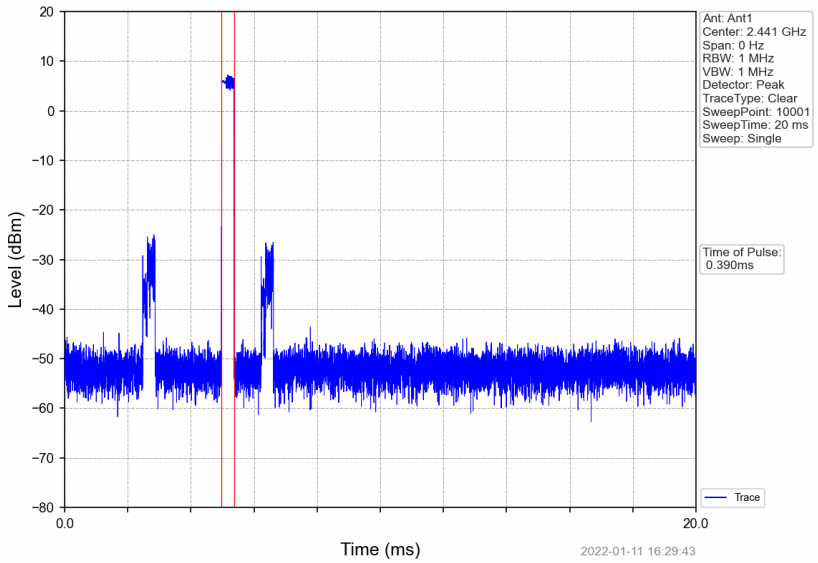

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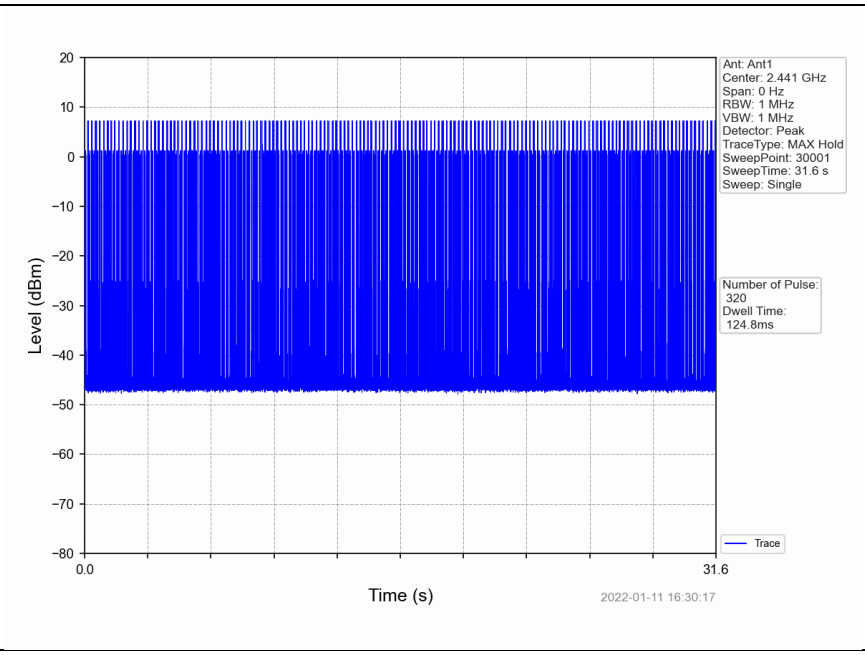

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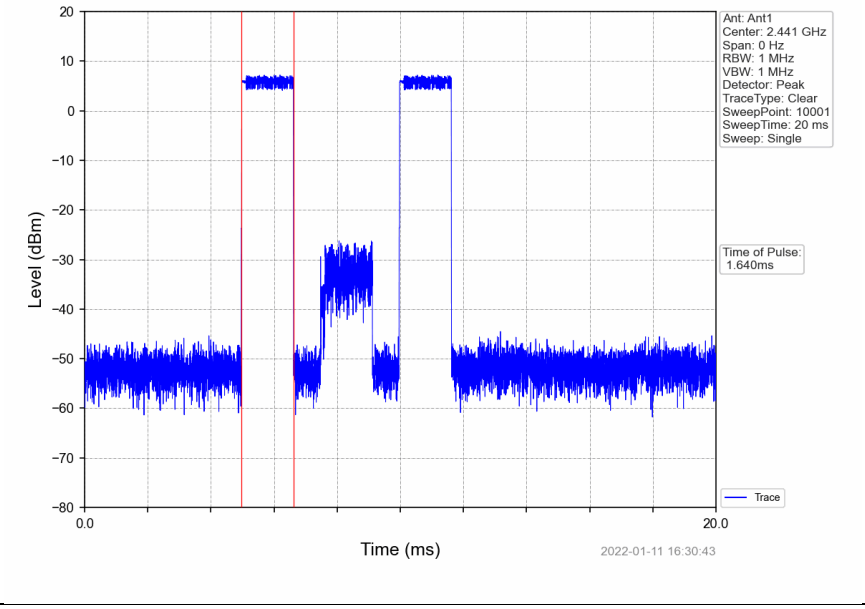

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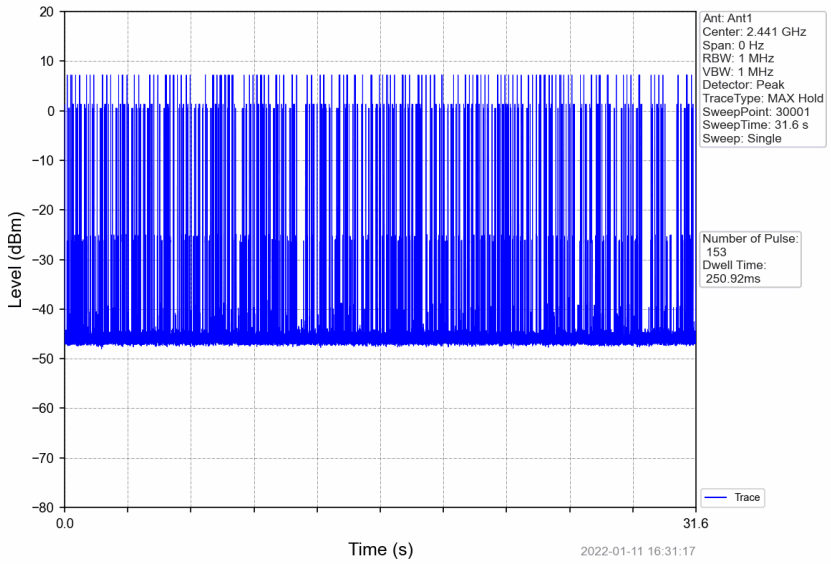

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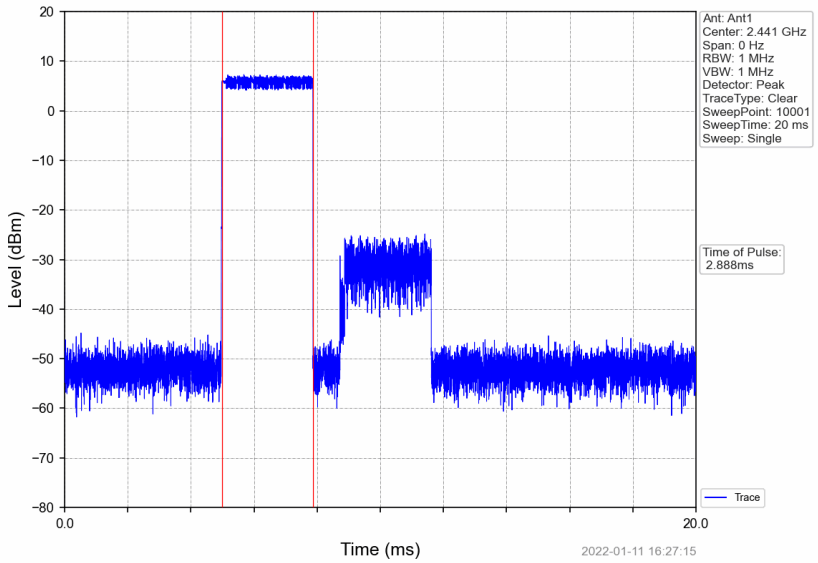

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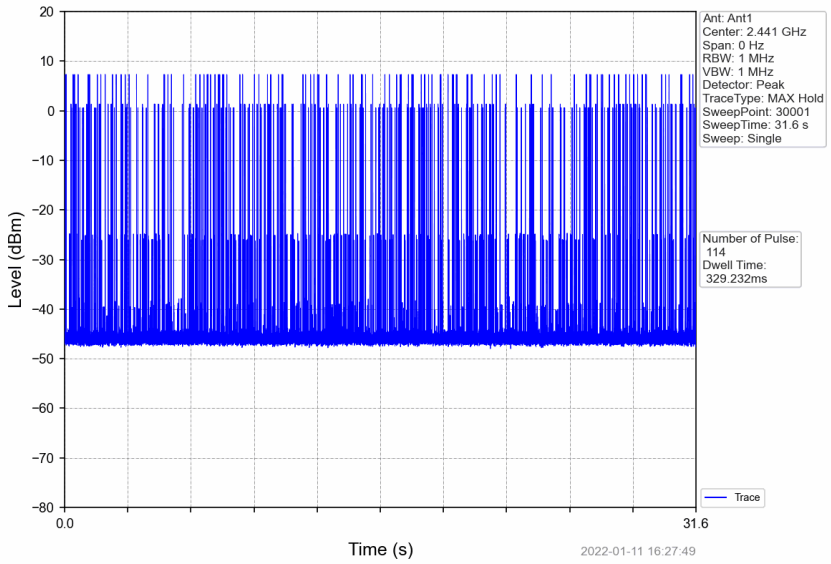

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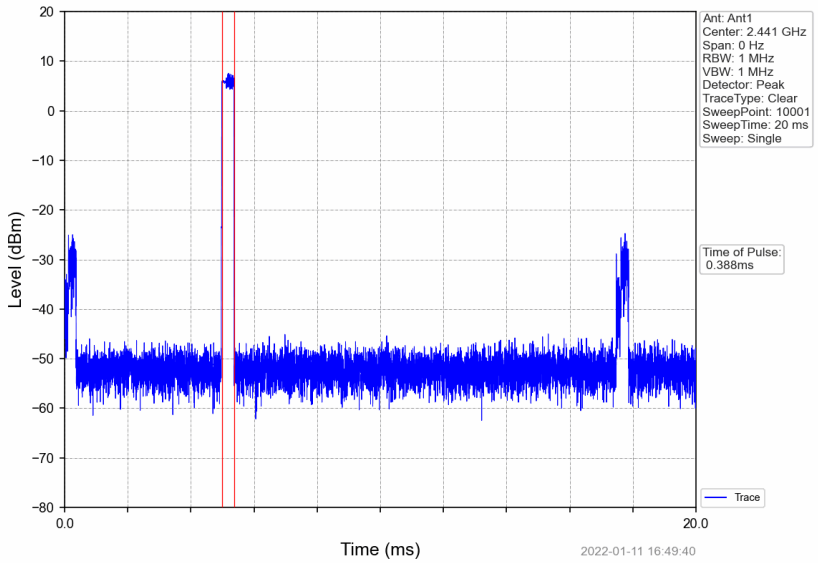

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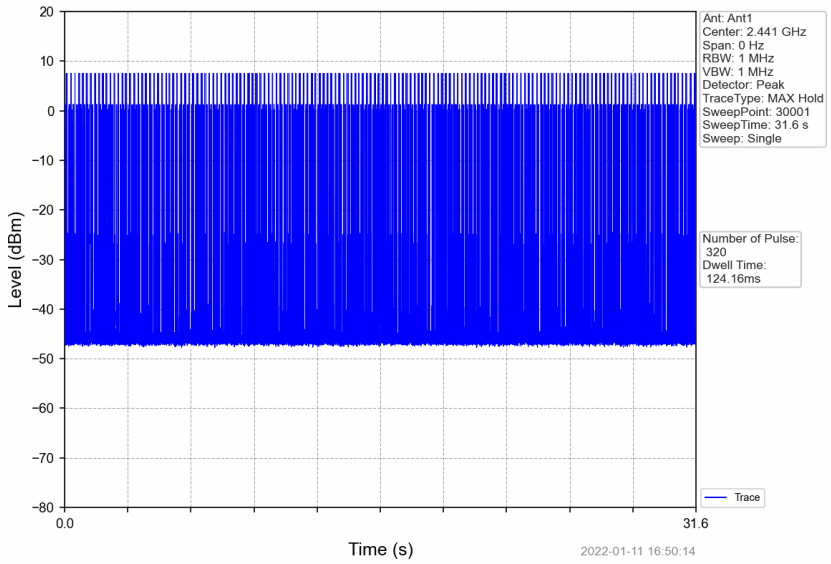

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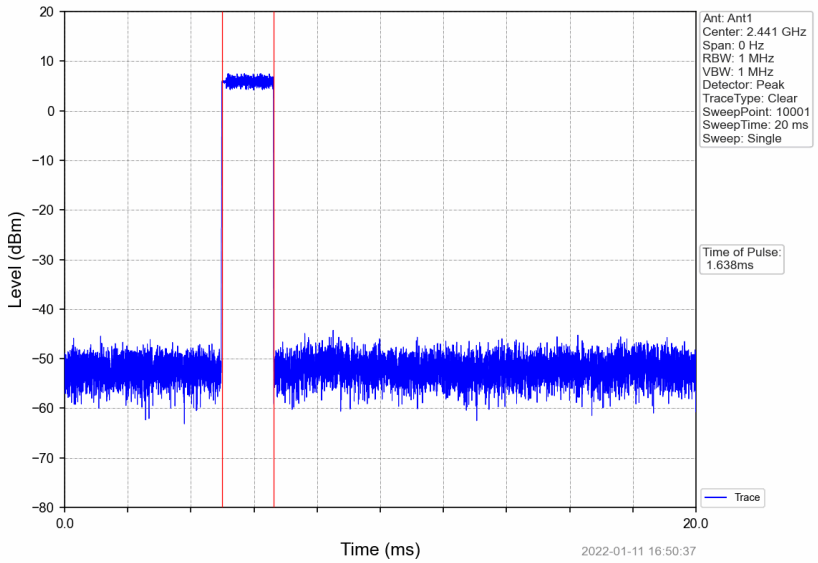

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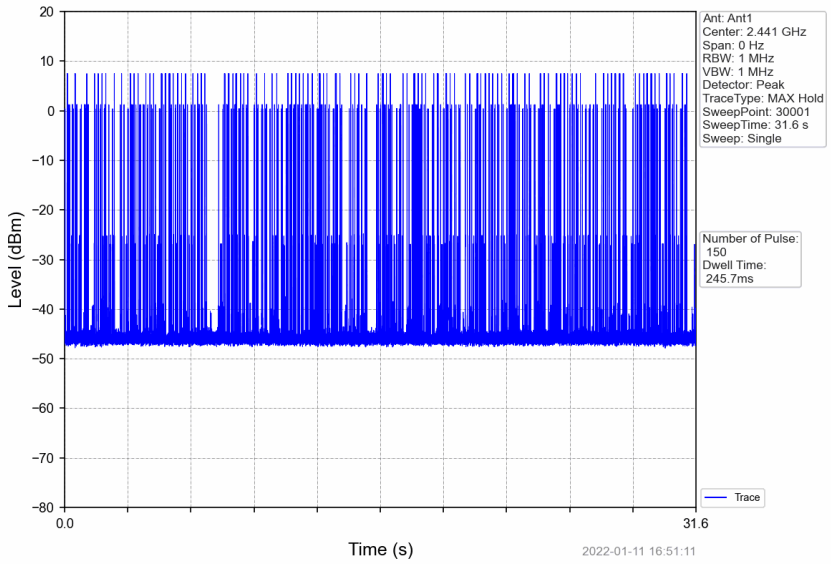

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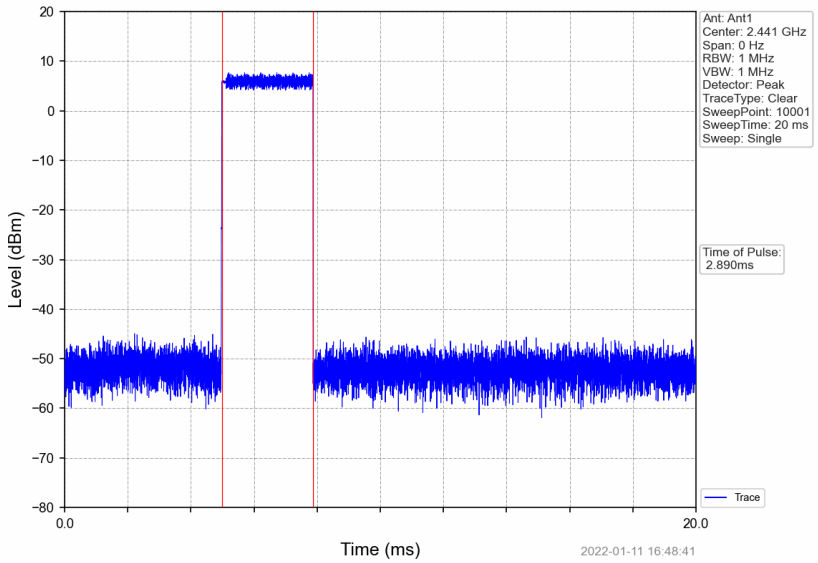

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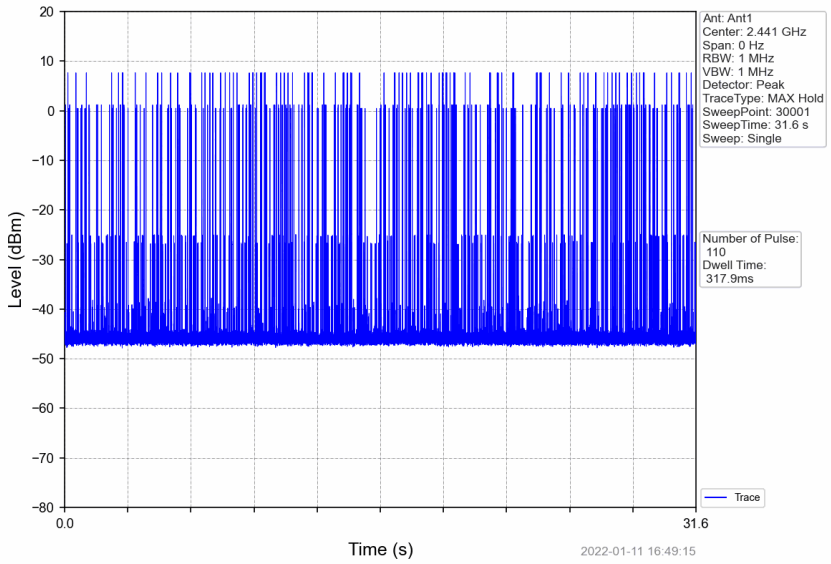

6. Unwanted Emissions In Non-restricted Frequency Bands

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	7.33
		2441	DH5	1	7.69
		2480	DH5	1	7.97
Pi/4DQPSK	SISO	2402	2DH5	1	5.47
		2441	2DH5	1	5.66
		2480	2DH5	1	5.99
8DPSK	SISO	2402	3DH5	1	5.59
		2441	3DH5	1	5.71
		2480	3DH5	1	5.90

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.

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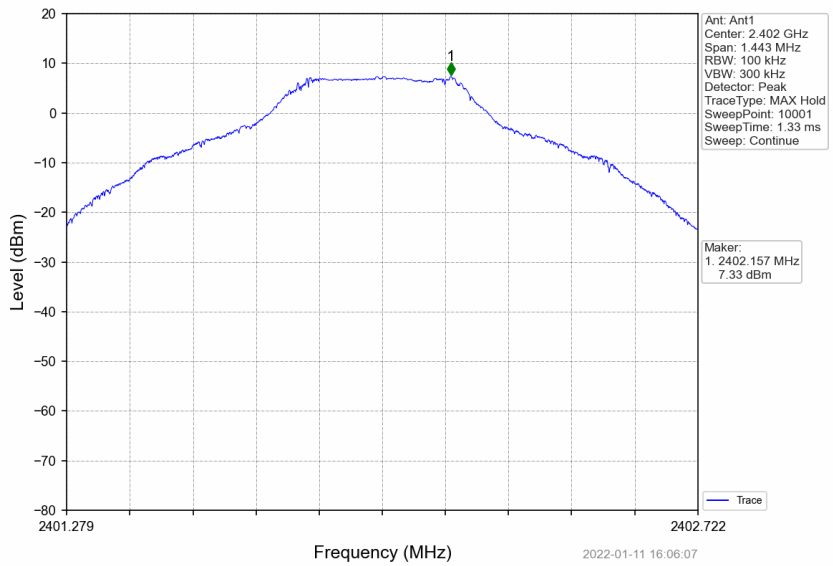
6.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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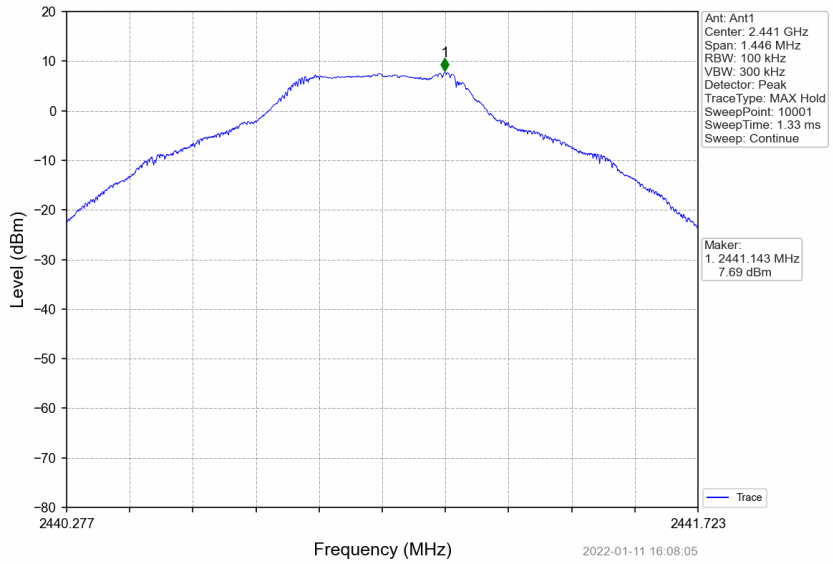

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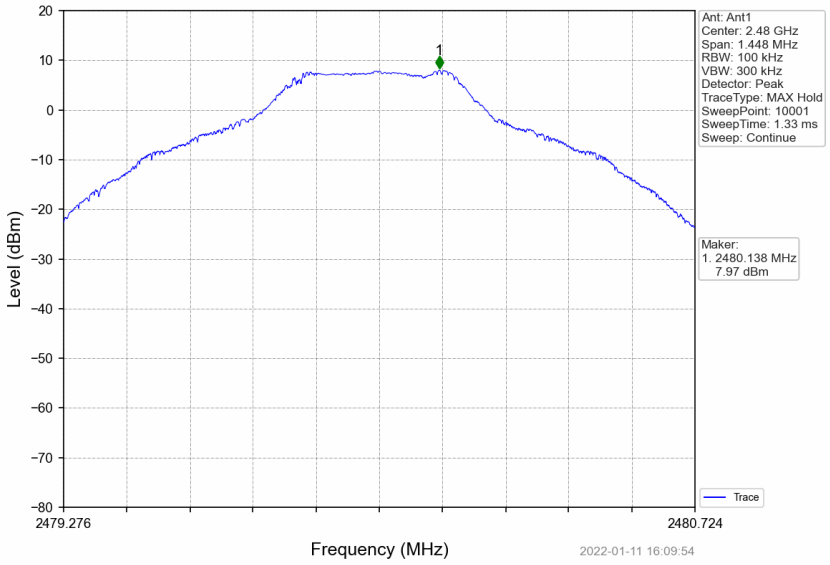

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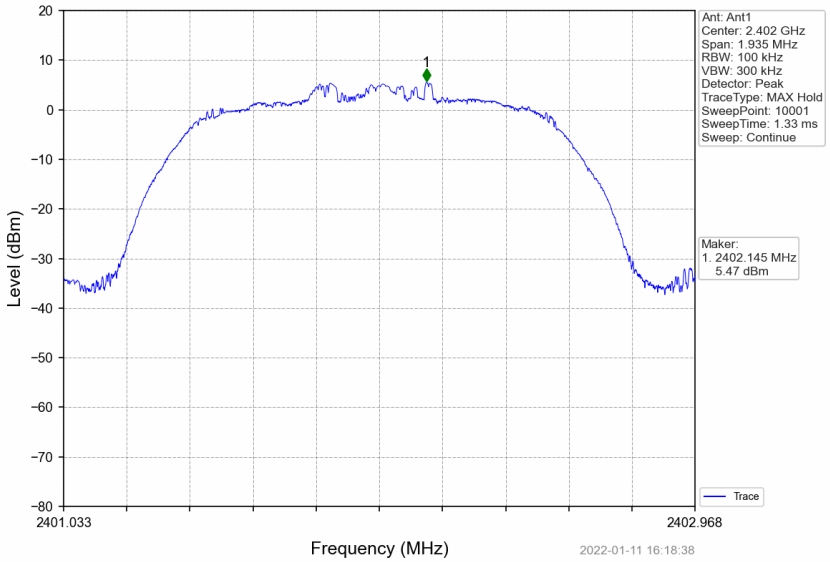

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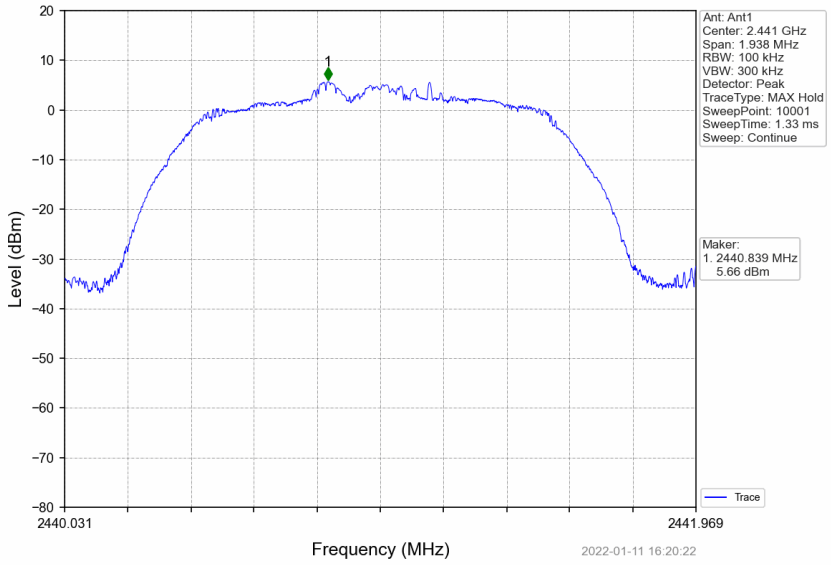
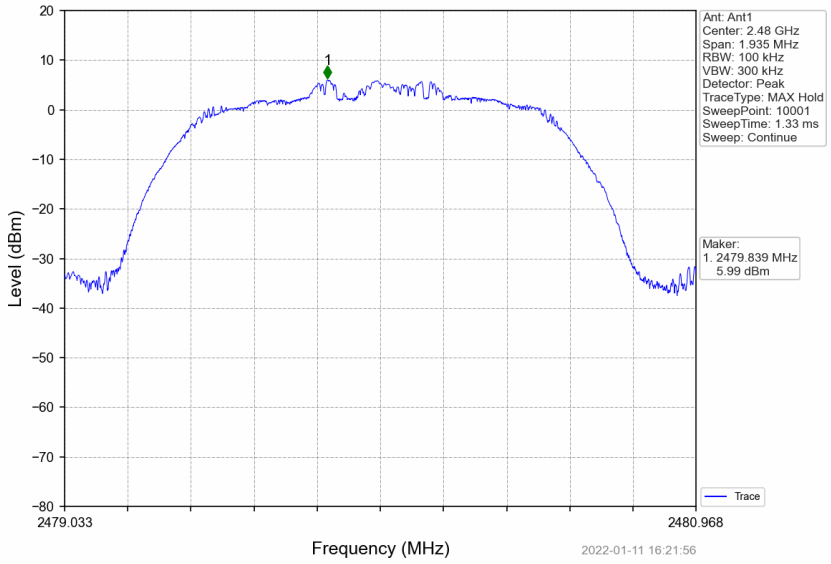
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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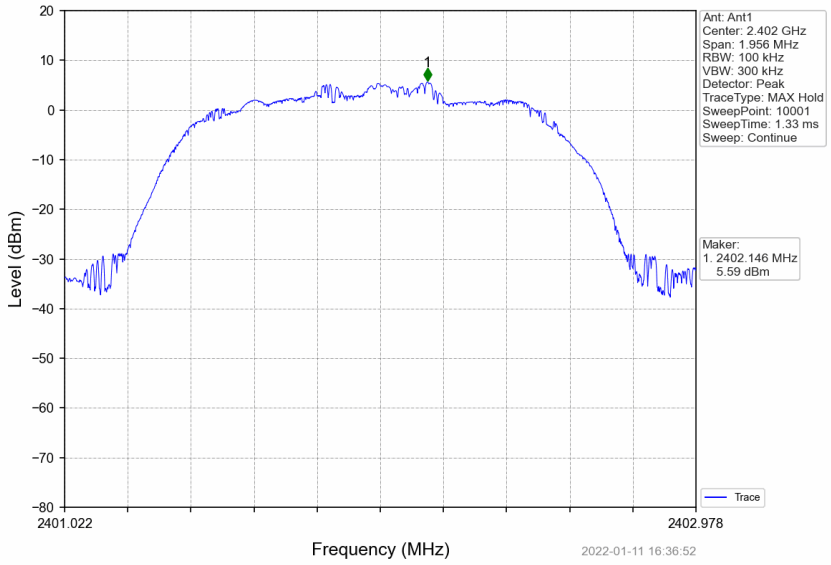
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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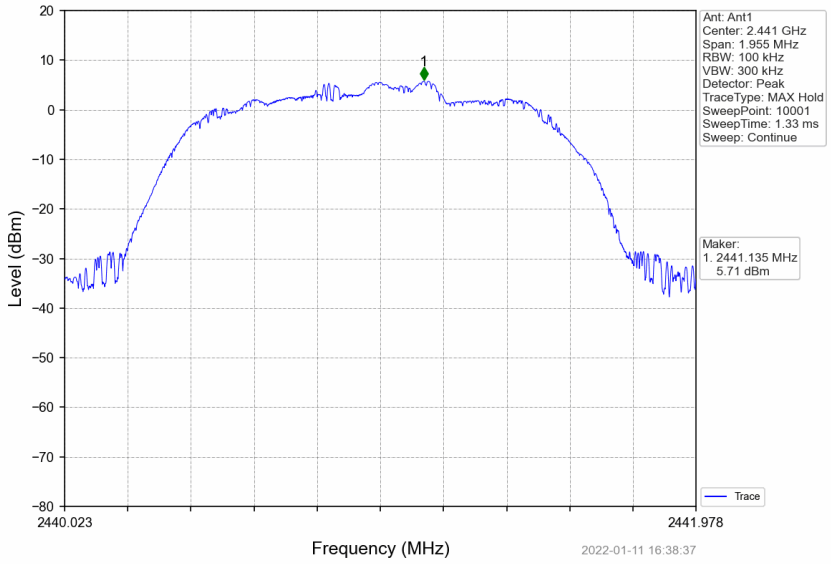

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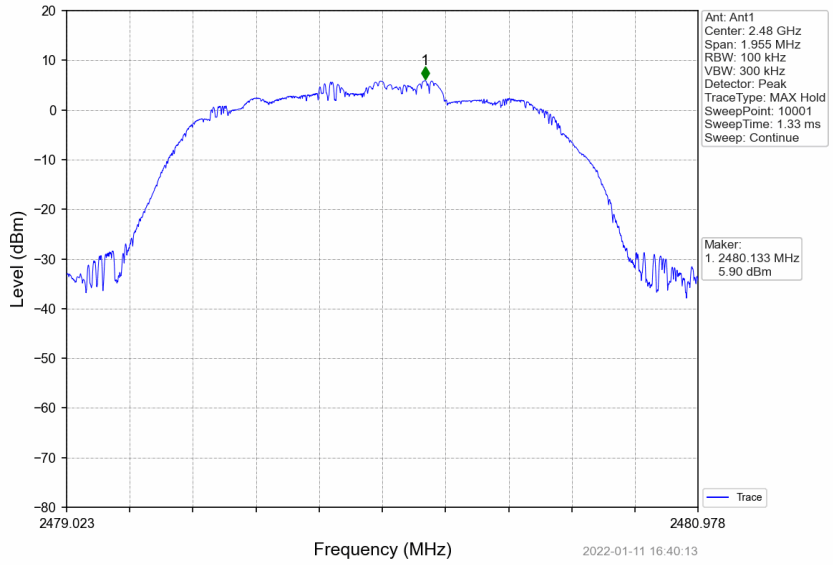
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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	7.97	-12.03	Pass
		2441	DH5	1	7.97	-12.03	Pass
		2480	DH5	1	7.97	-12.03	Pass
		HOPP	DH5	1	7.97	-12.03	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.99	-14.01	Pass
		2441	2DH5	1	5.99	-14.01	Pass
		2480	2DH5	1	5.99	-14.01	Pass
		HOPP	2DH5	1	5.99	-14.01	Pass
8DPSK	SISO	2402	3DH5	1	5.90	-14.10	Pass
		2441	3DH5	1	5.90	-14.10	Pass
		2480	3DH5	1	5.90	-14.10	Pass
		HOPP	3DH5	1	5.90	-14.10	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.

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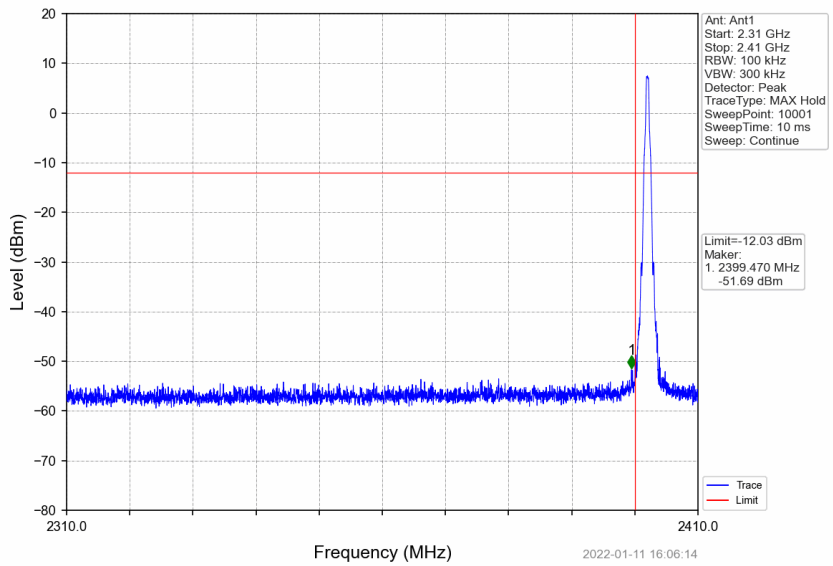
6.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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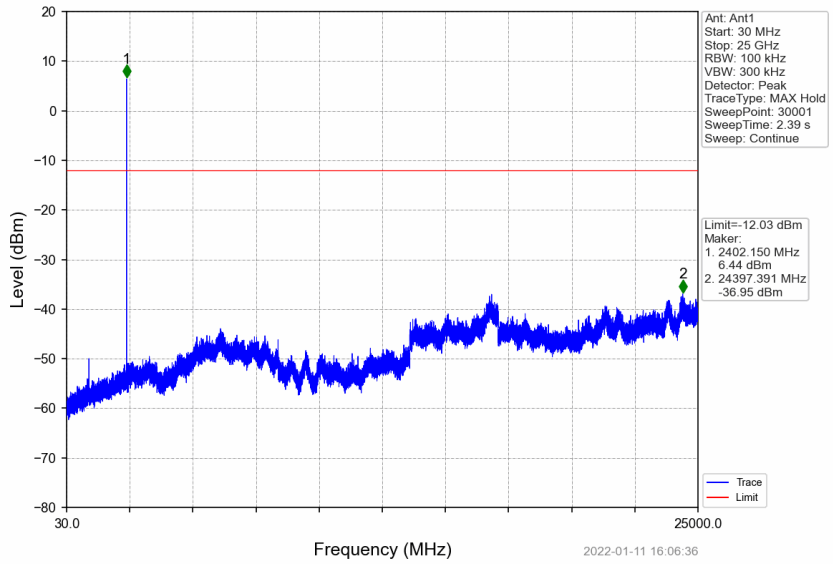

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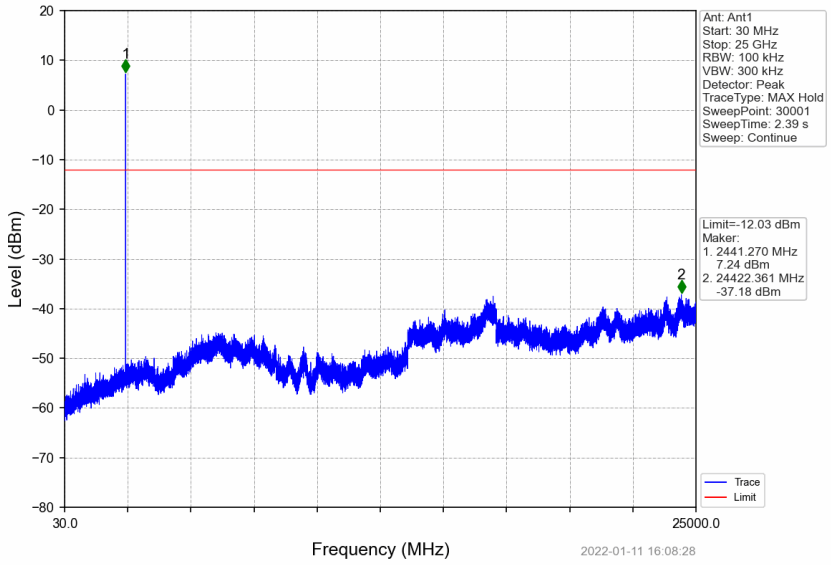
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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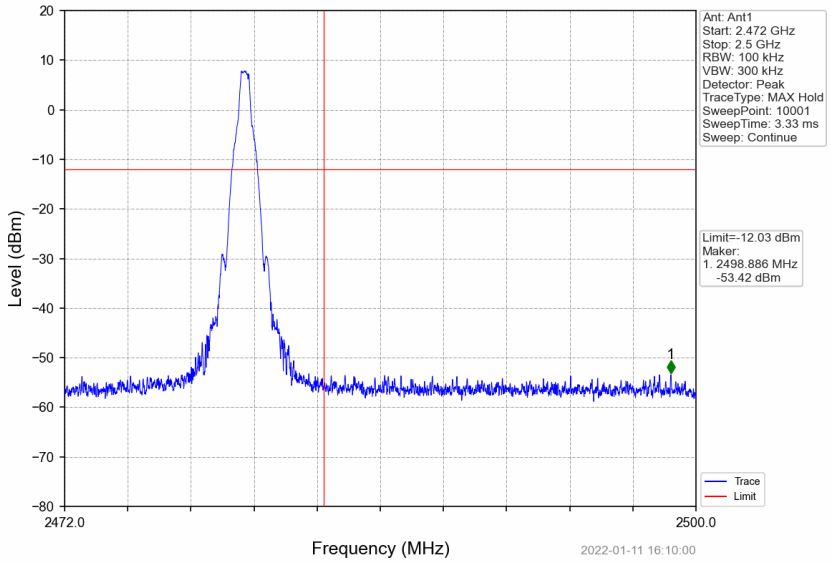

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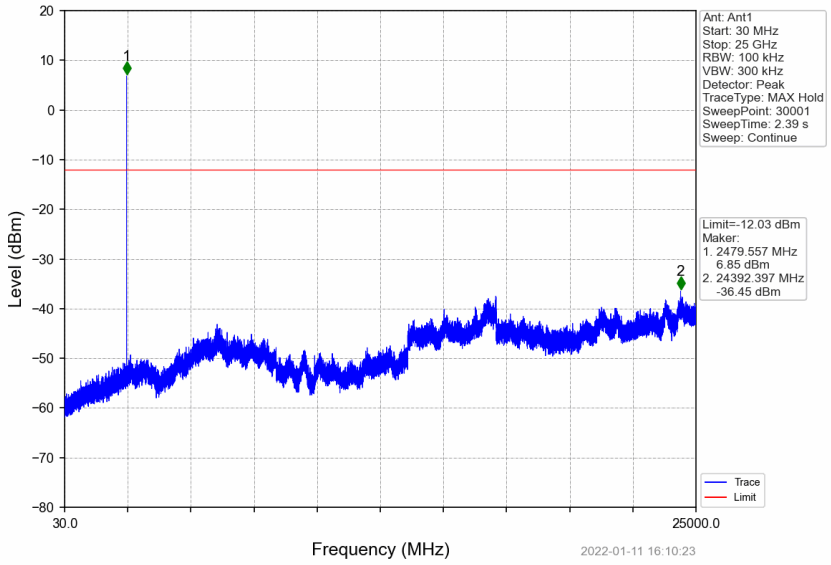

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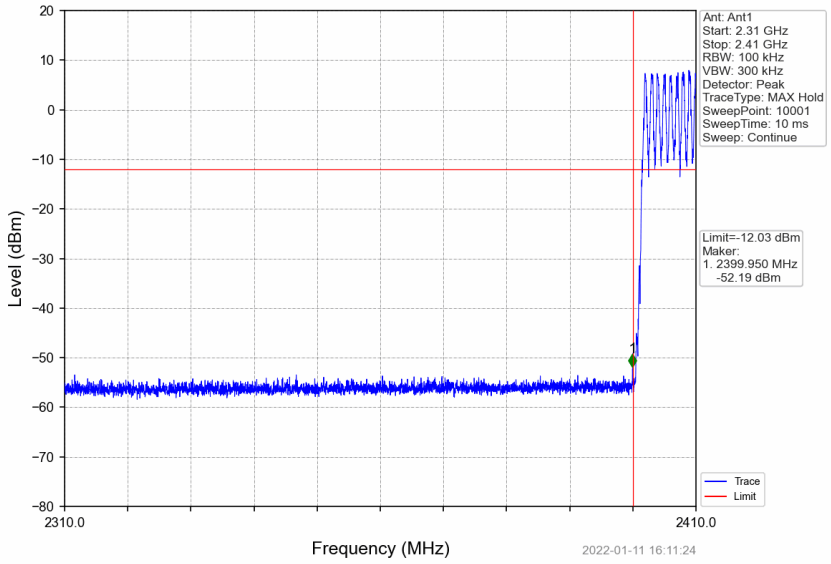

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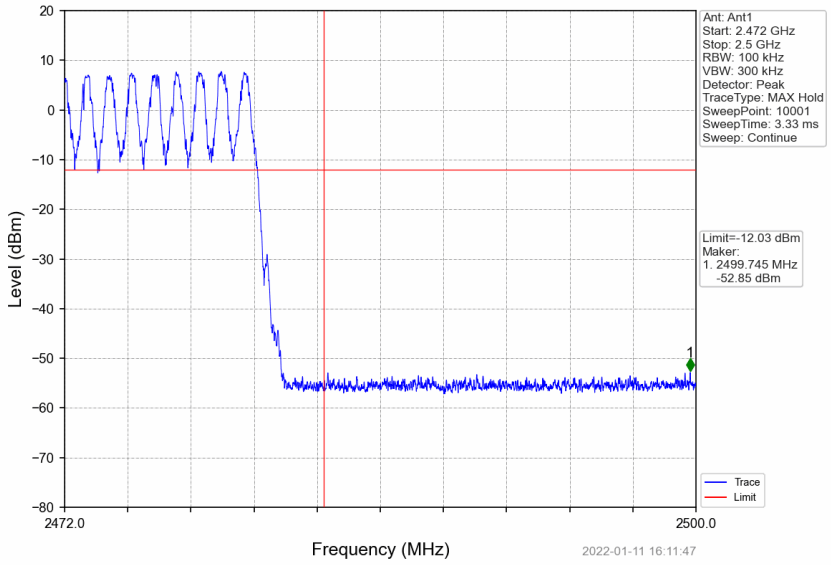

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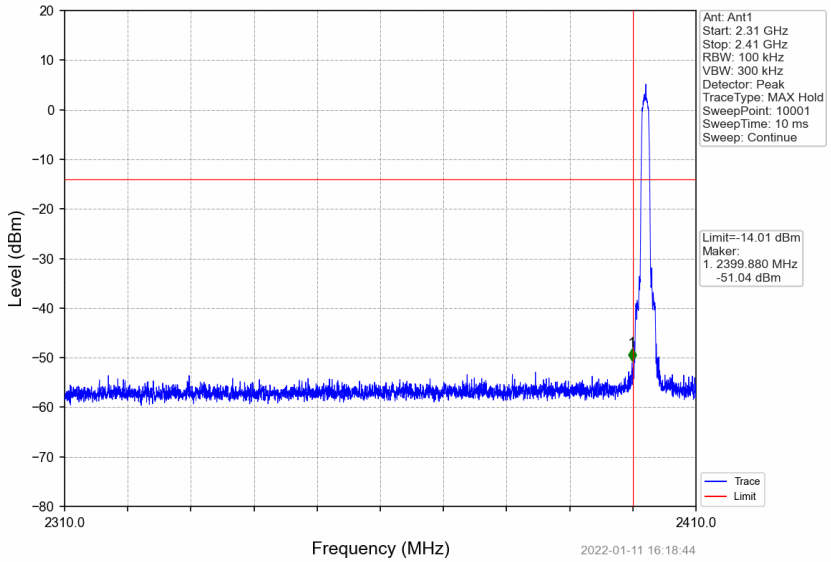

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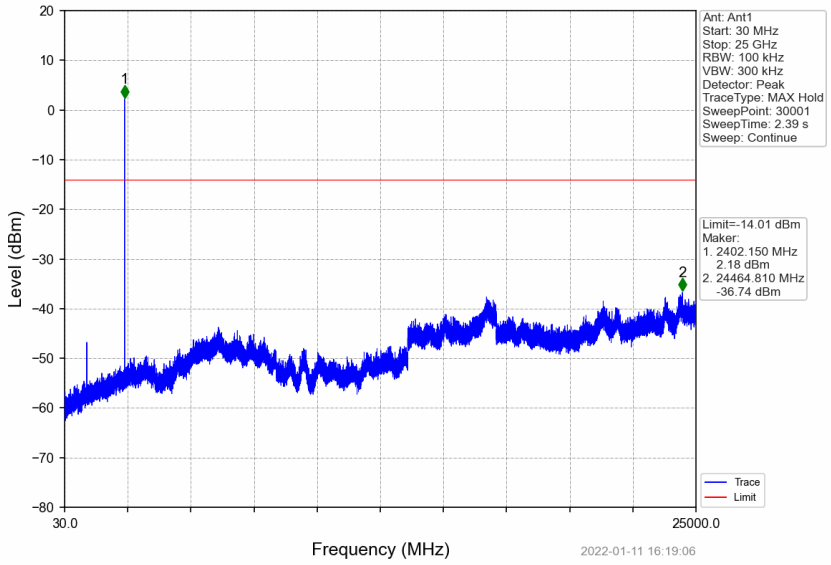

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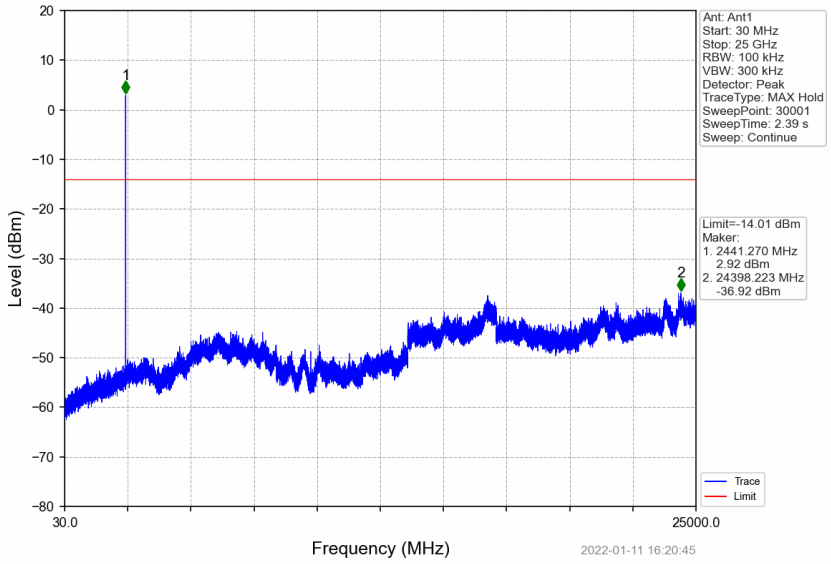

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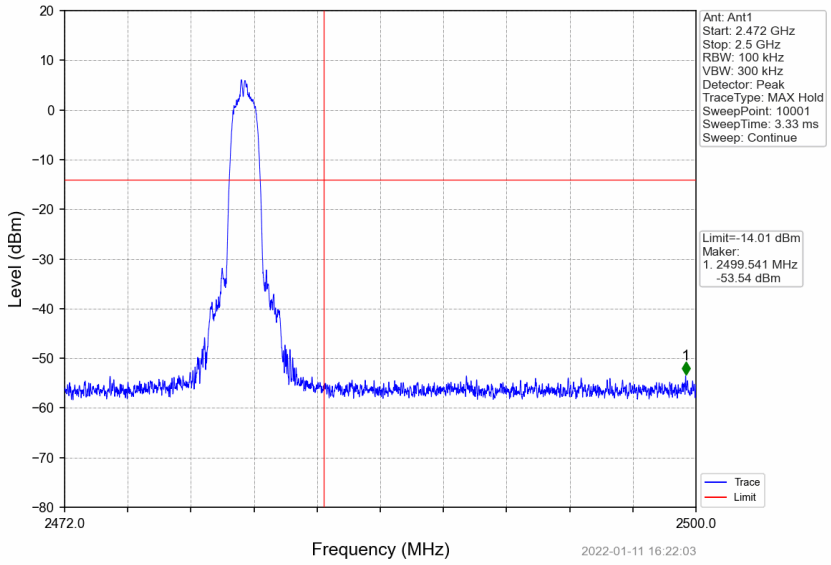
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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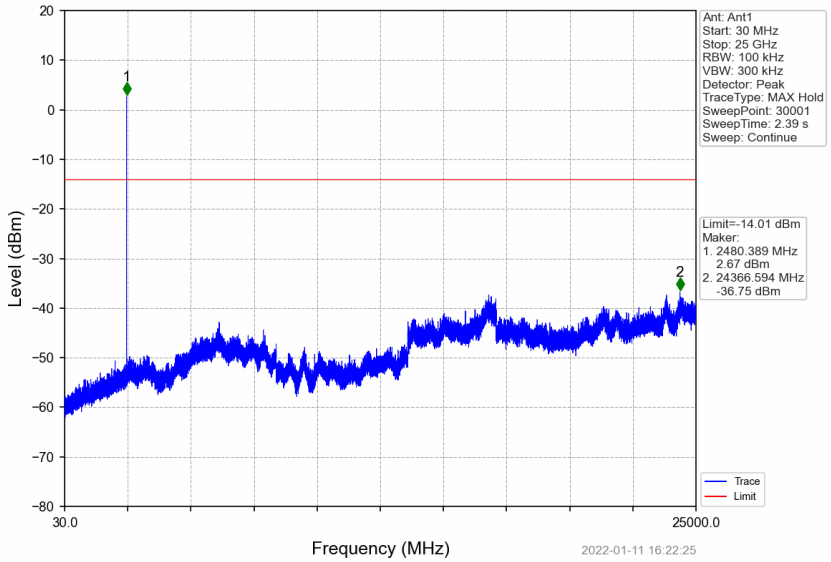

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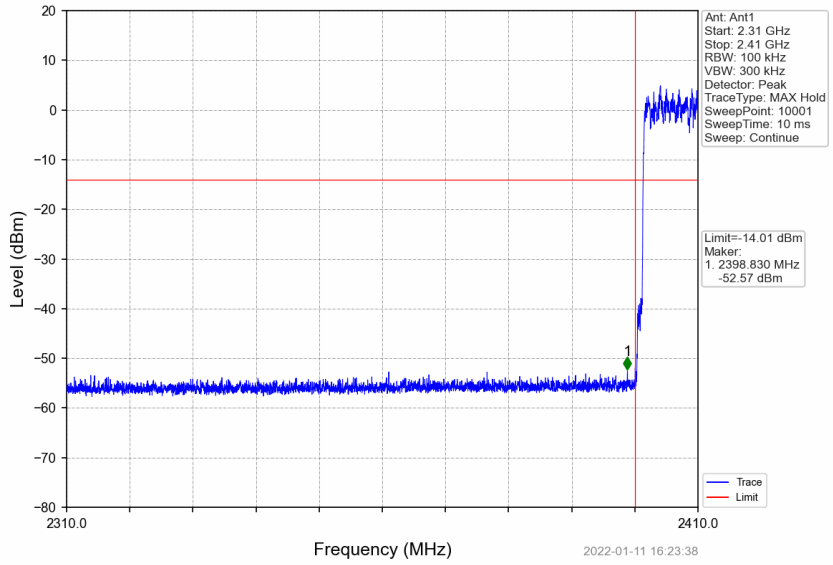

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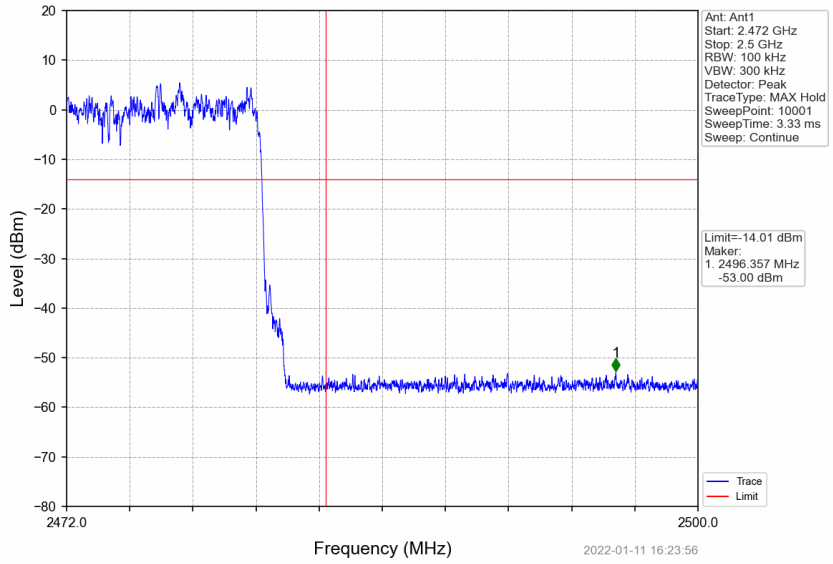

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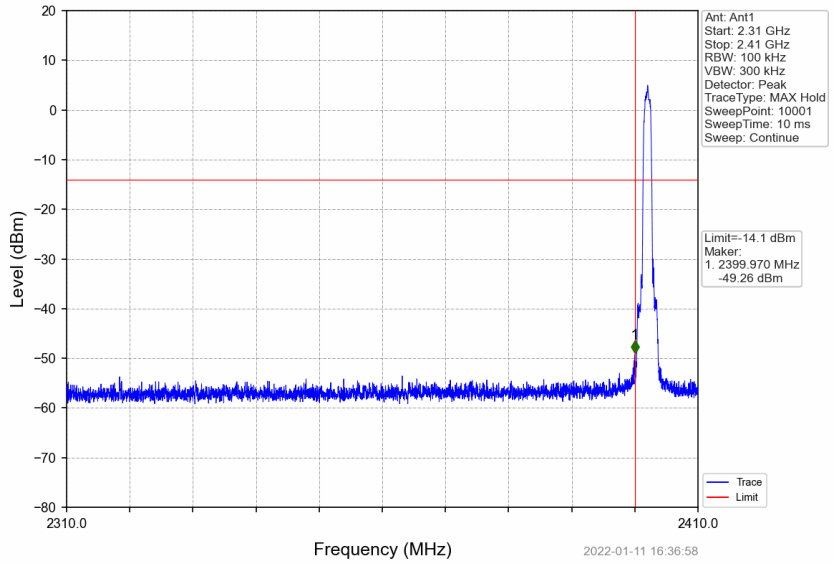
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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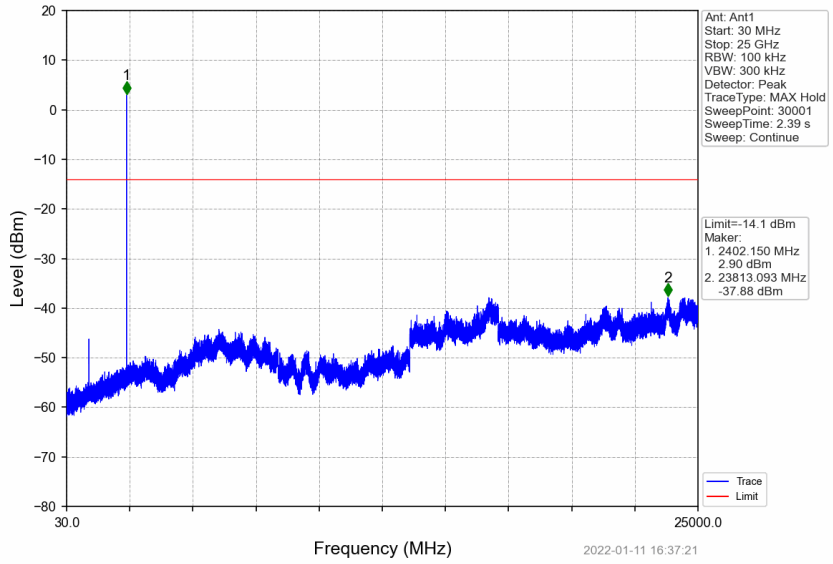

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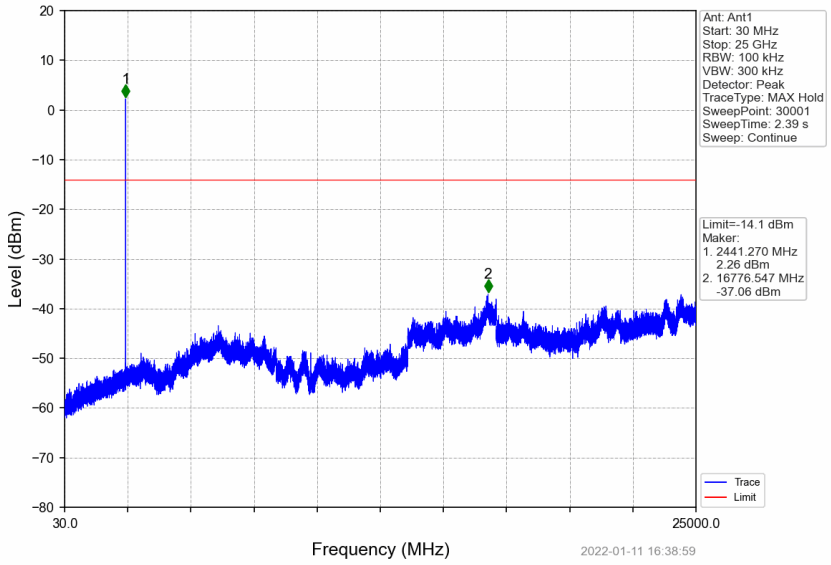
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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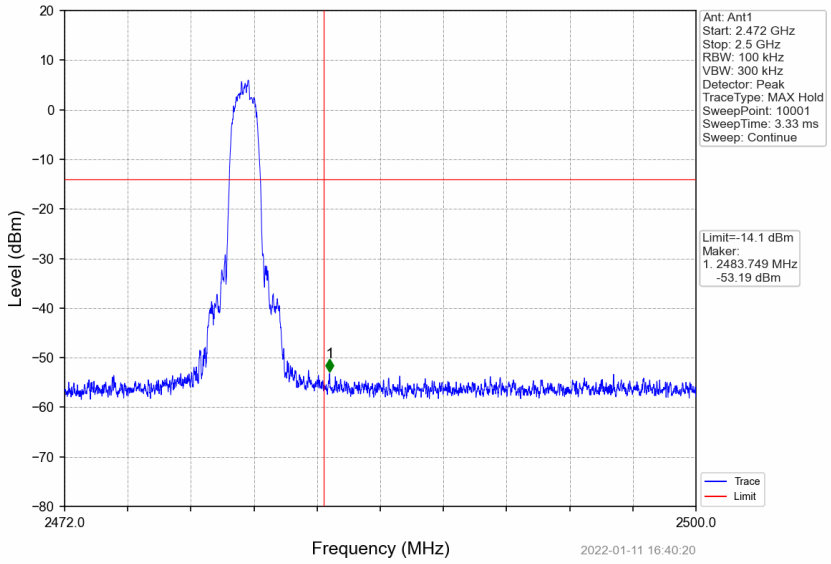

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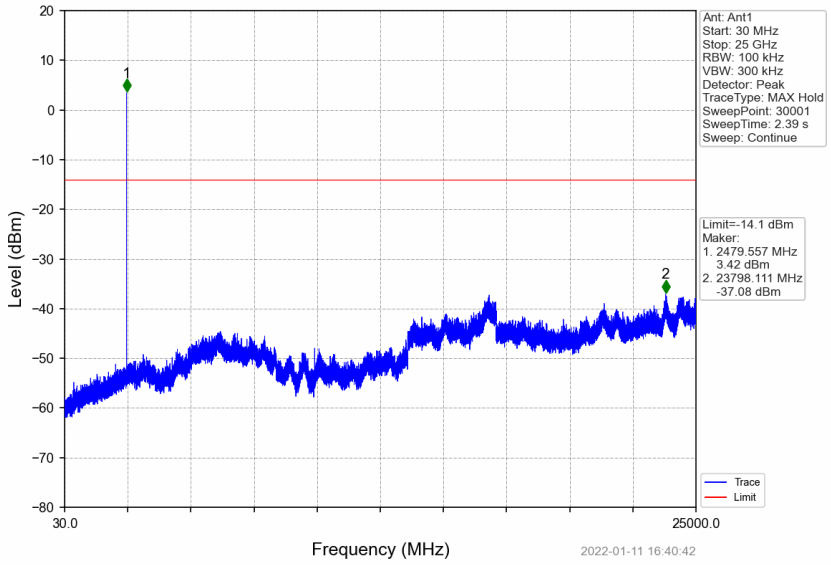
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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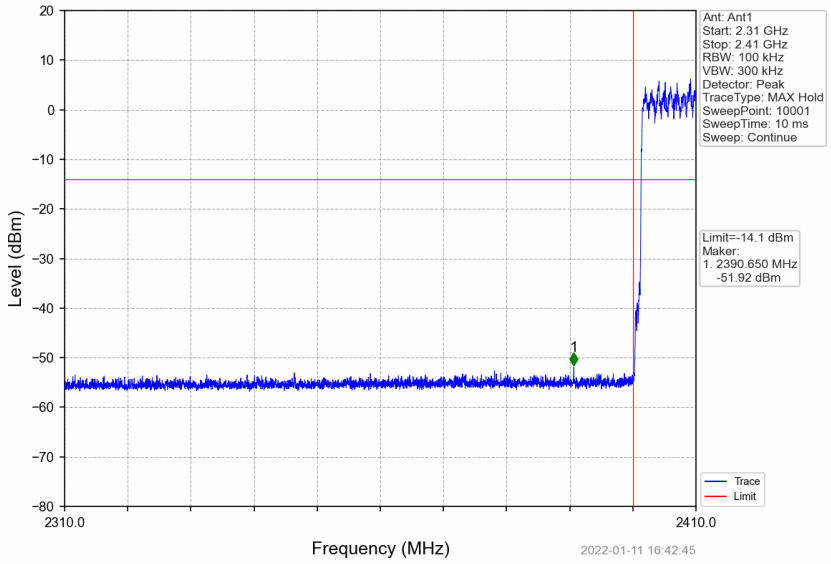

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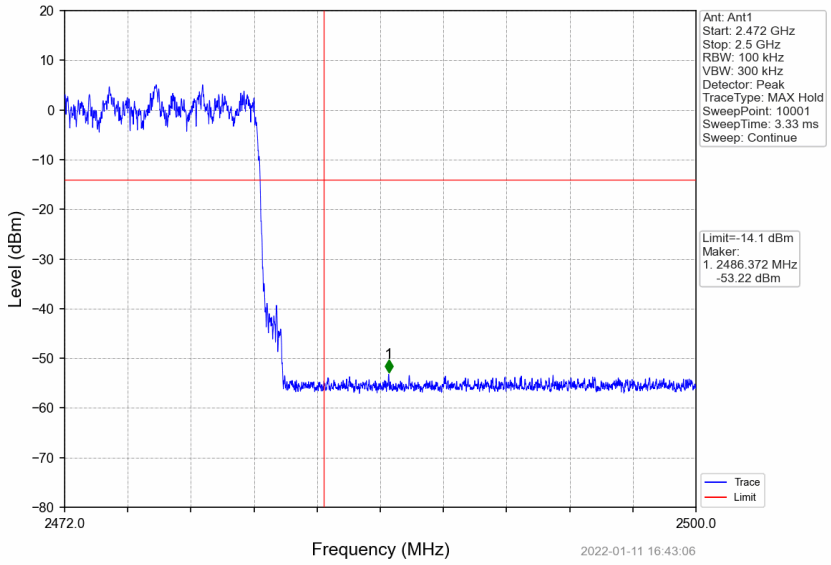

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