Appendix A for KSEM211100190001

(RF Module Microchip)

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	0.897	Pass
		2441	DH5	1	0.897	Pass
		2480	DH5	1	0.897	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.163	Pass
		2441	2DH5	1	1.162	Pass
		2480	2DH5	1	0.906	Pass
8DPSK	SISO	2402	3DH5	1	1.171	Pass
		2441	3DH5	1	1.170	Pass
		2480	3DH5	1	1.169	Pass

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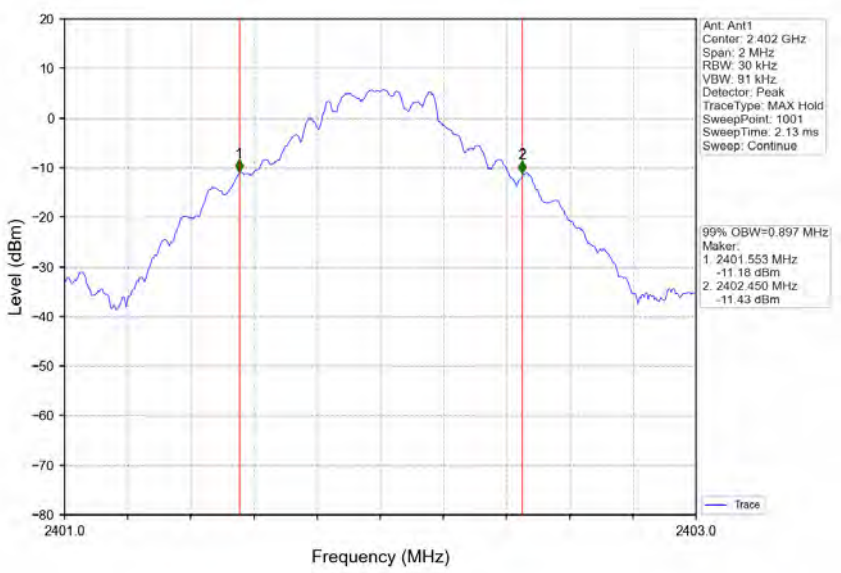
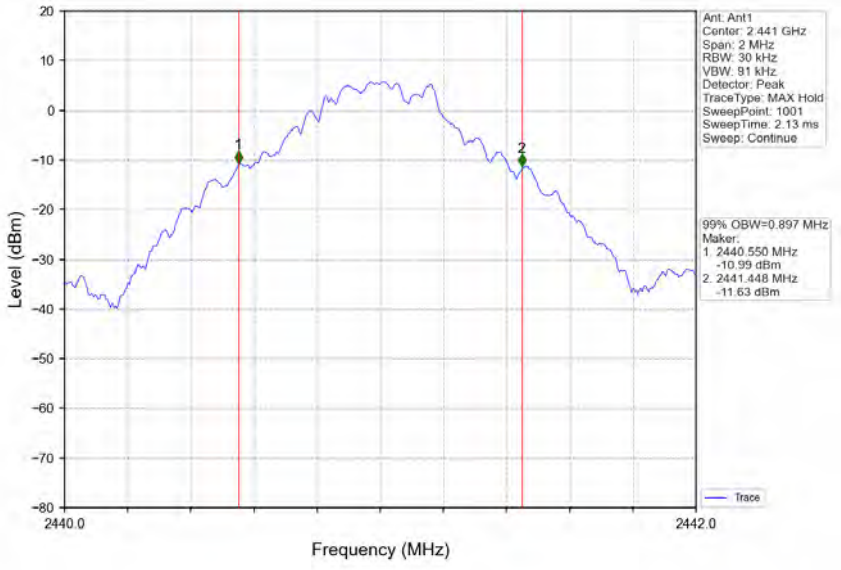
1.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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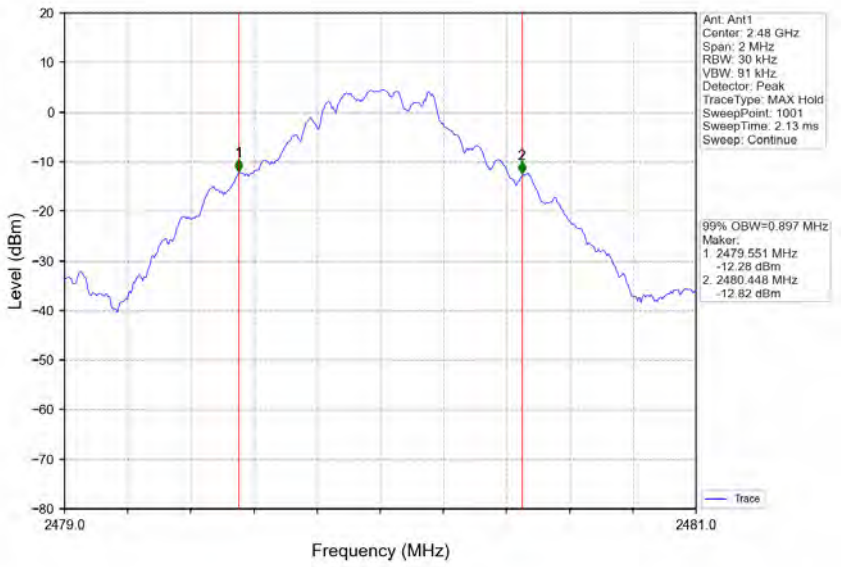
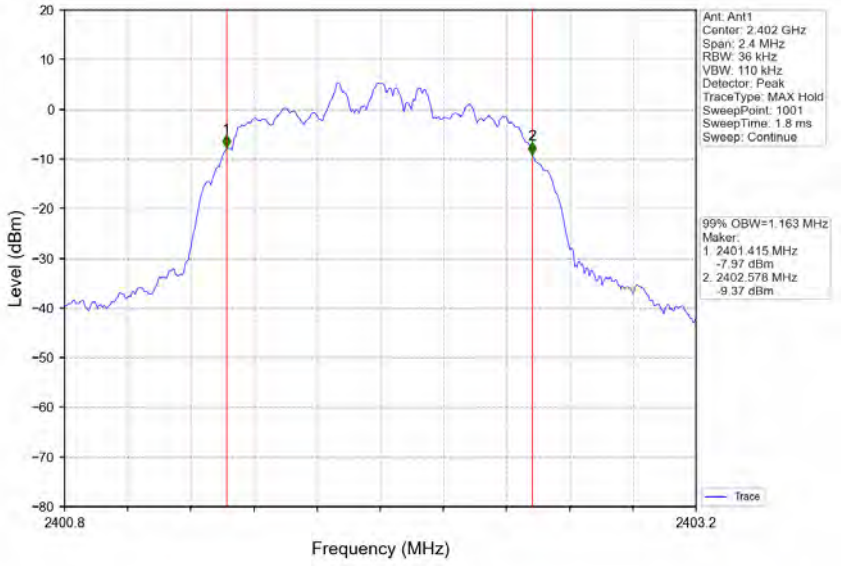
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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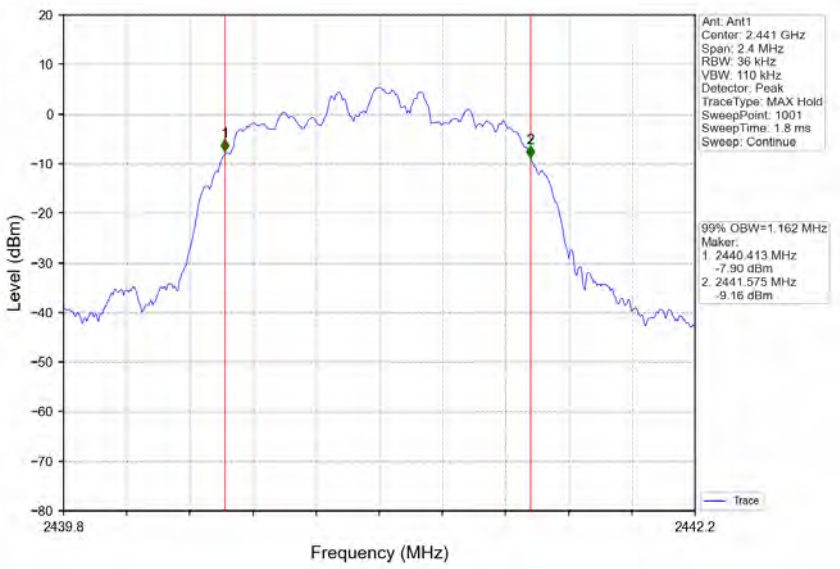
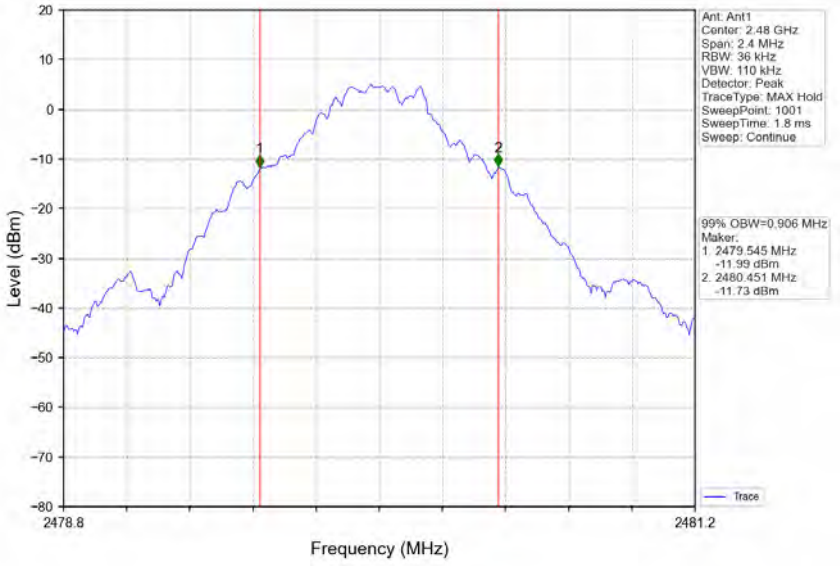
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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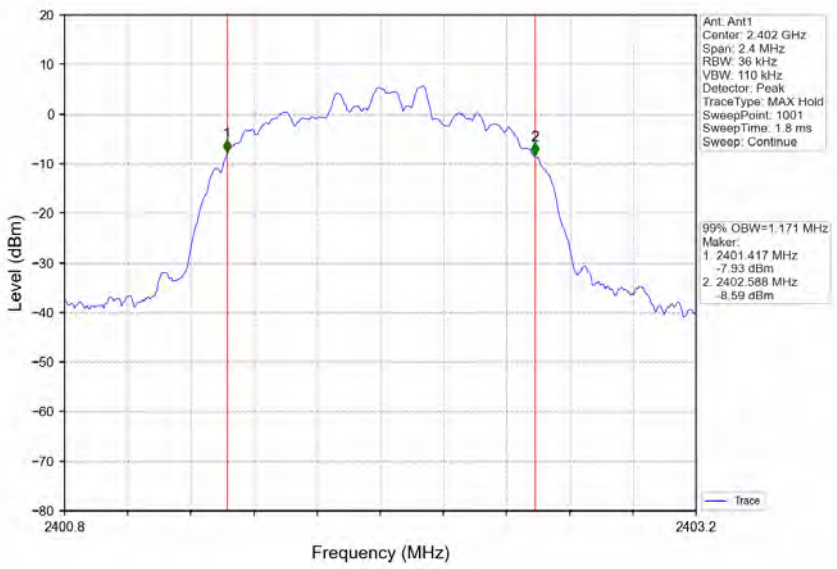
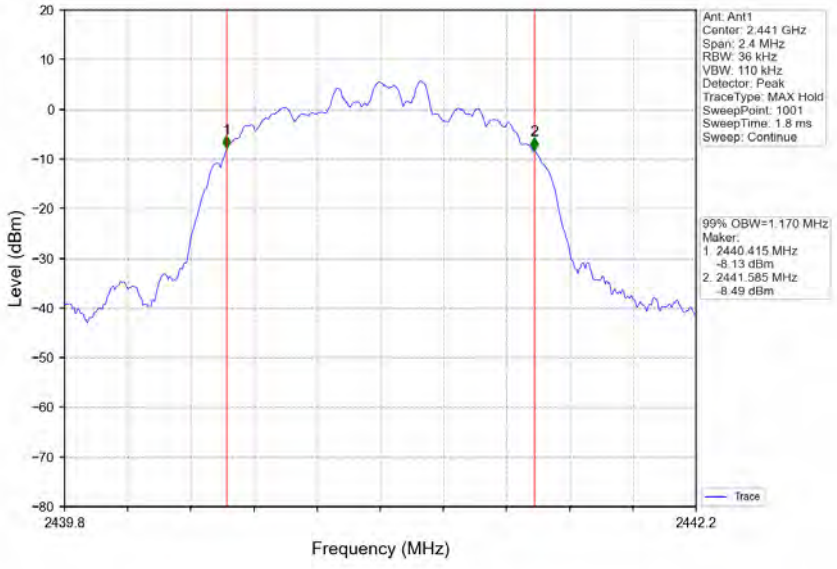
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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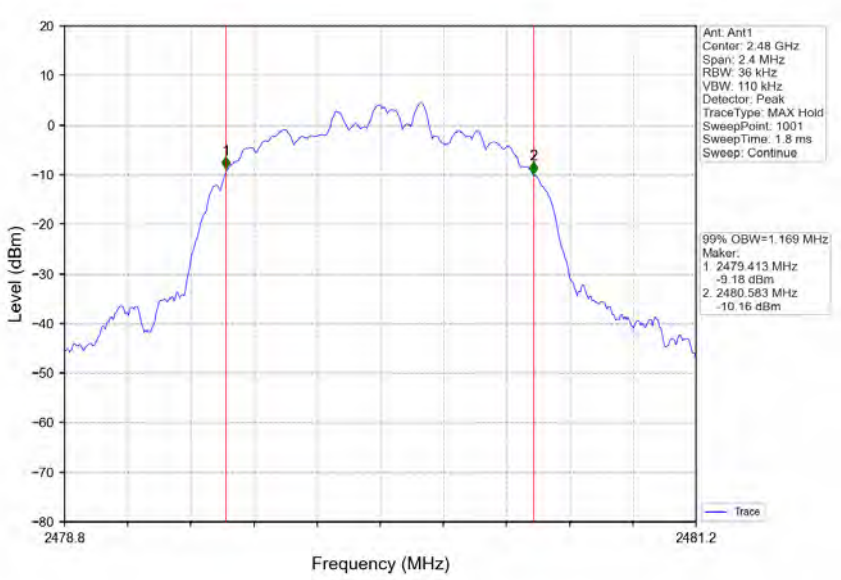
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1.026	Pass
		2441	DH5	1	1.034	Pass
		2480	DH5	1	1.035	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.296	Pass
		2441	2DH5	1	1.313	Pass
		2480	2DH5	1	1.043	Pass
8DPSK	SISO	2402	3DH5	1	1.307	Pass
		2441	3DH5	1	1.306	Pass
		2480	3DH5	1	1.308	Pass

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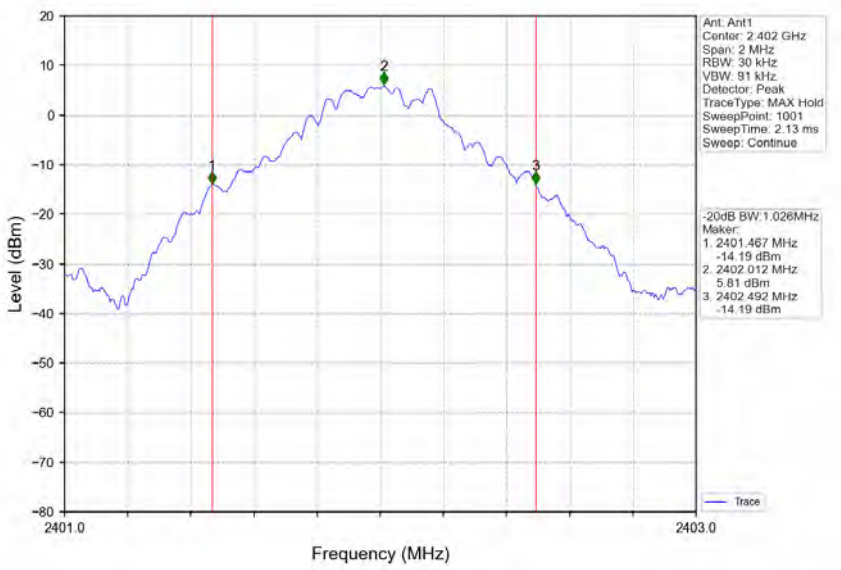
1.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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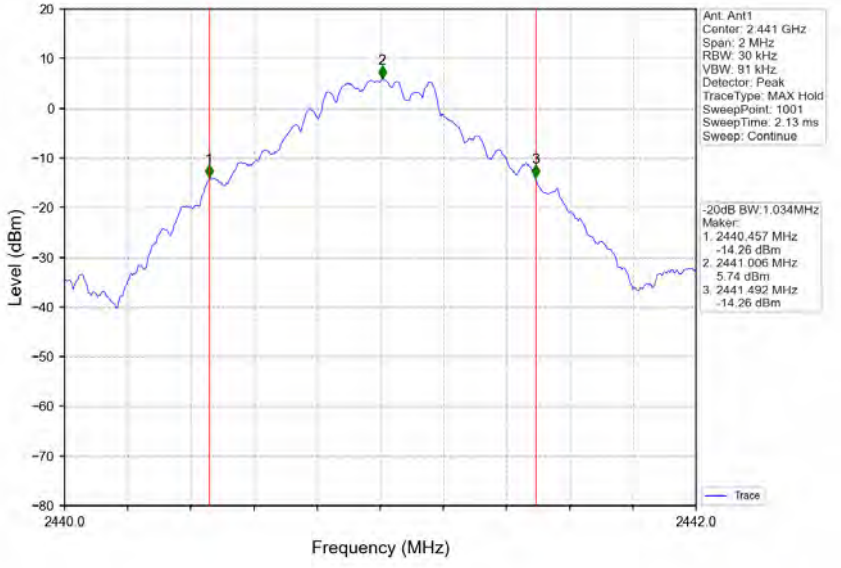

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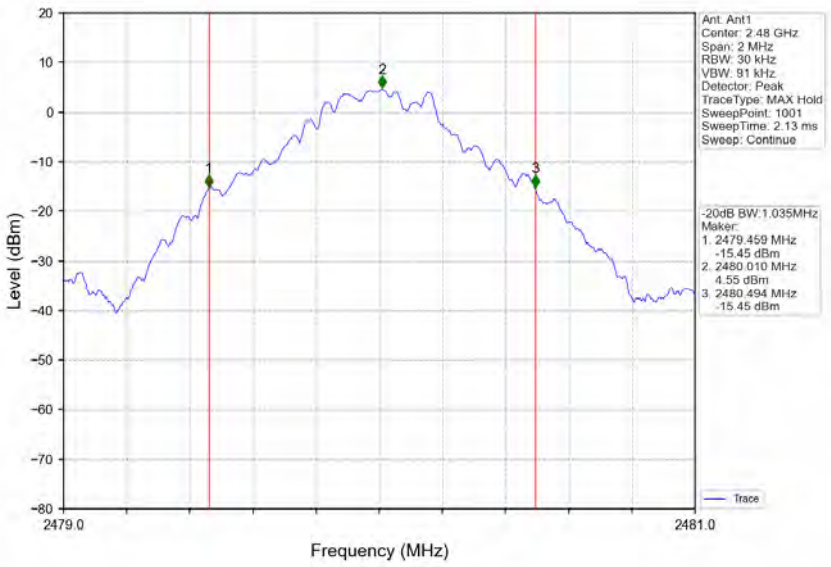
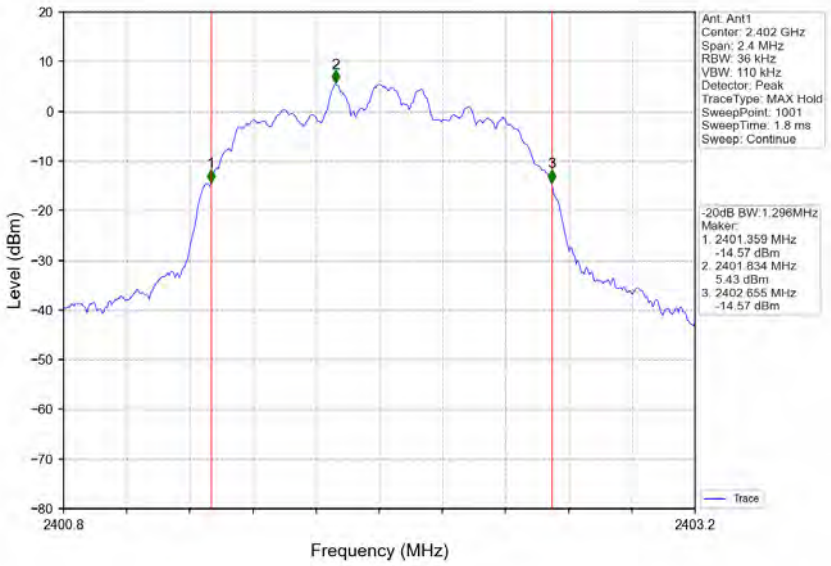
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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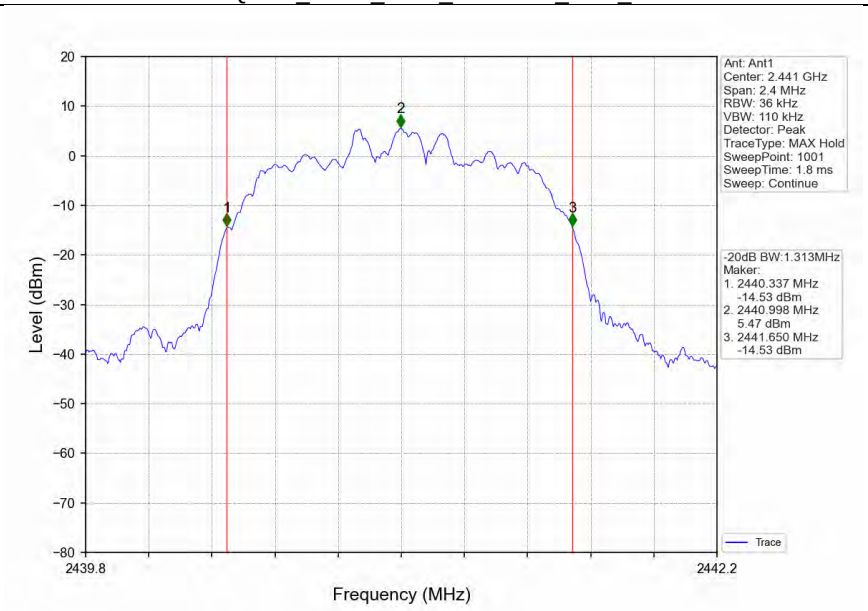
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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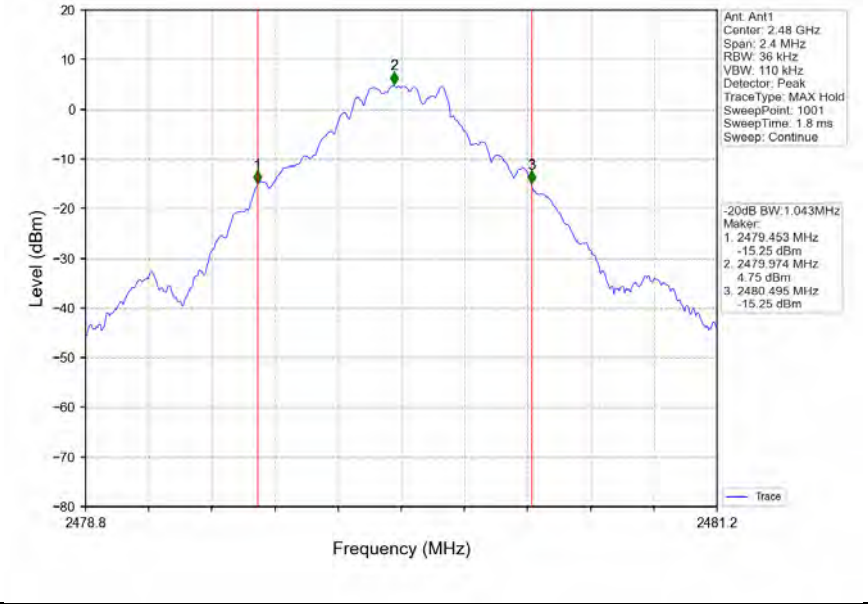

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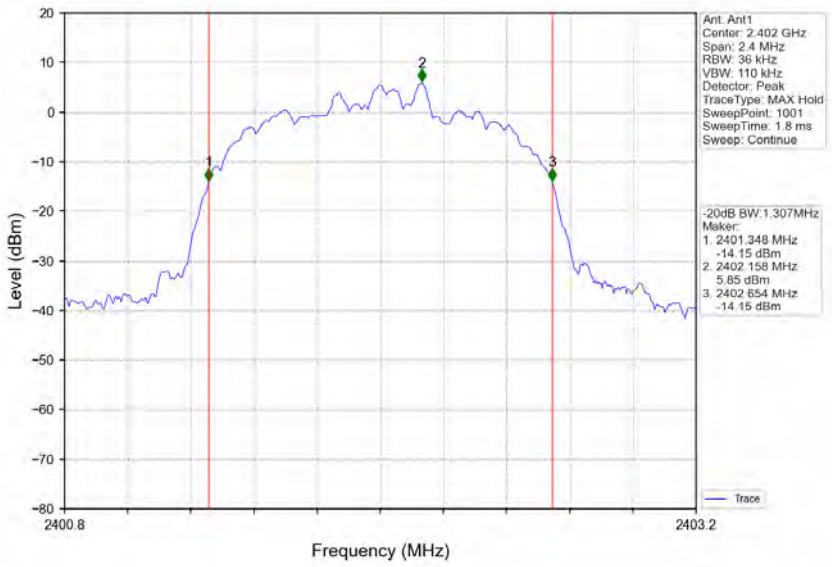
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV


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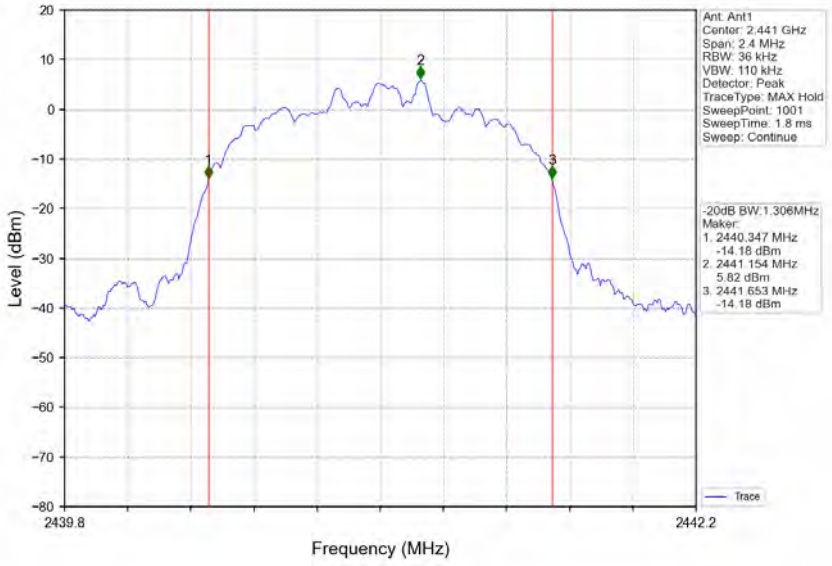

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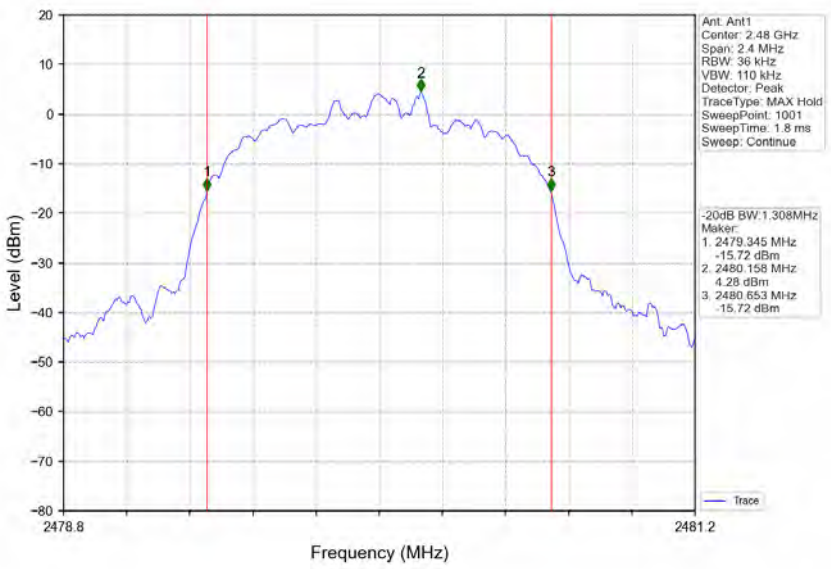
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	8.30	<=20.97	Pass
		2441	DH5	8.25	<=20.97	Pass
		2480	DH5	7.02	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	9.14	<=20.97	Pass
		2441	2DH5	9.16	<=20.97	Pass
		2480	2DH5	6.85	<=20.97	Pass
8DPSK	SISO	2402	3DH5	9.51	<=20.97	Pass
		2441	3DH5	9.51	<=20.97	Pass
		2480	3DH5	8.16	<=20.97	Pass
Note1: Antenna Gain: Ant1: 2.14dBi;						

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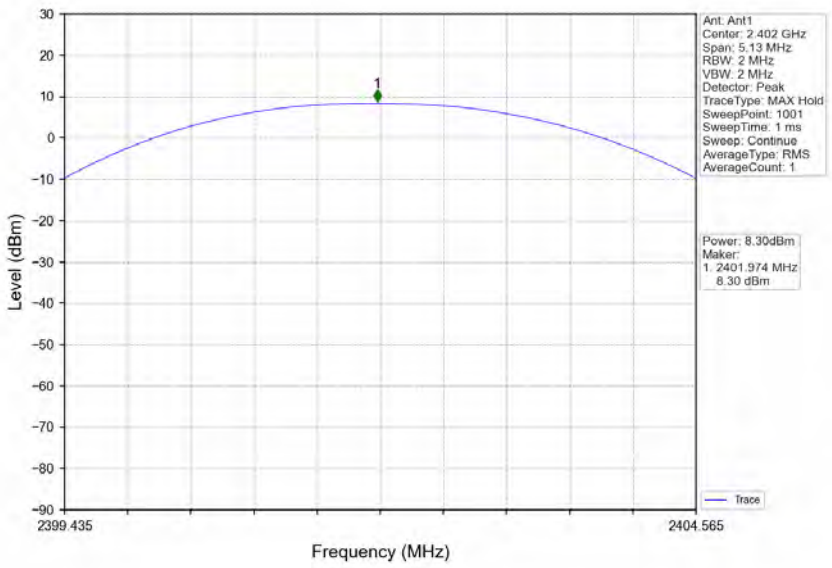
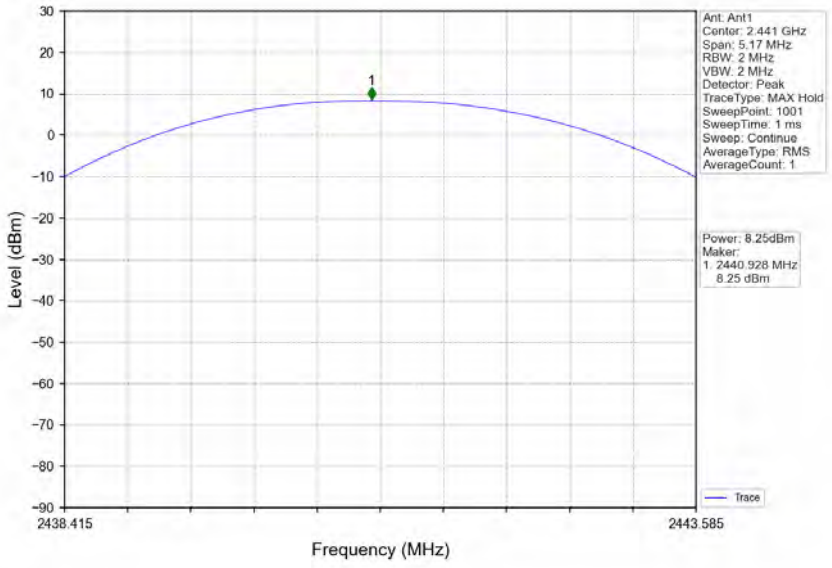
2.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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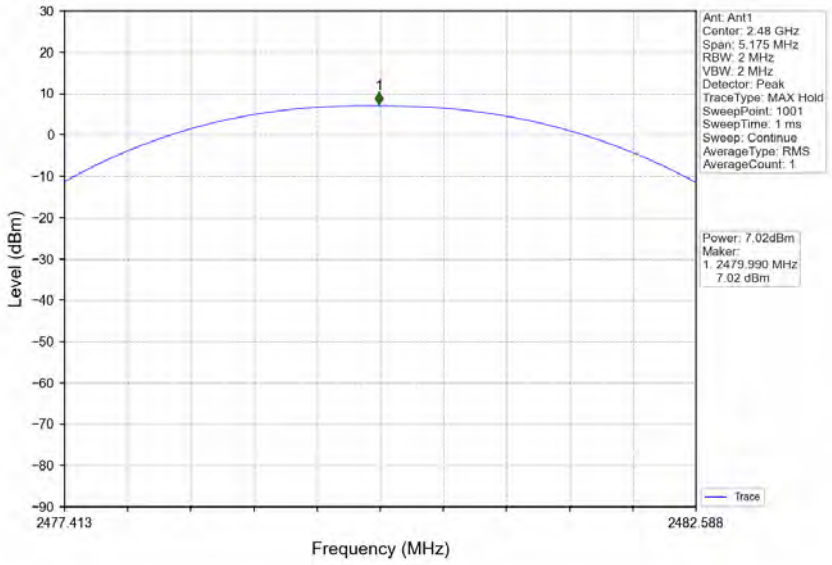
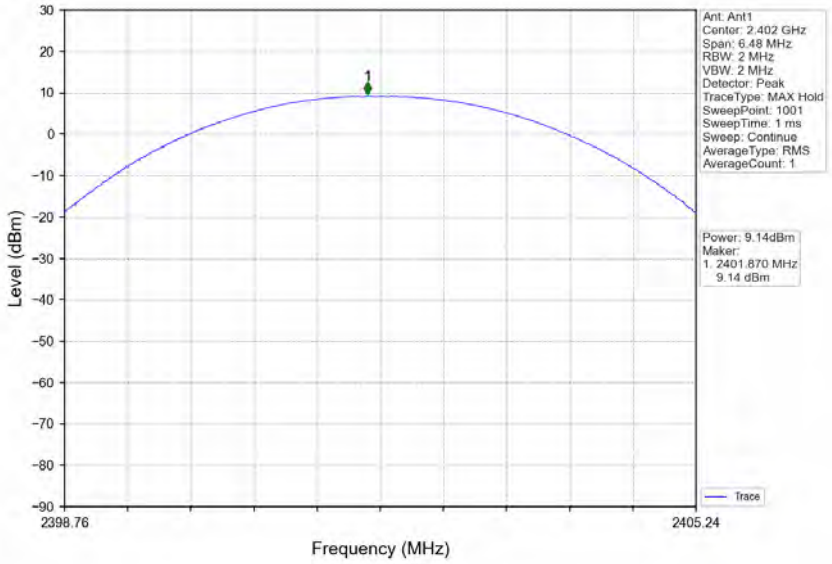
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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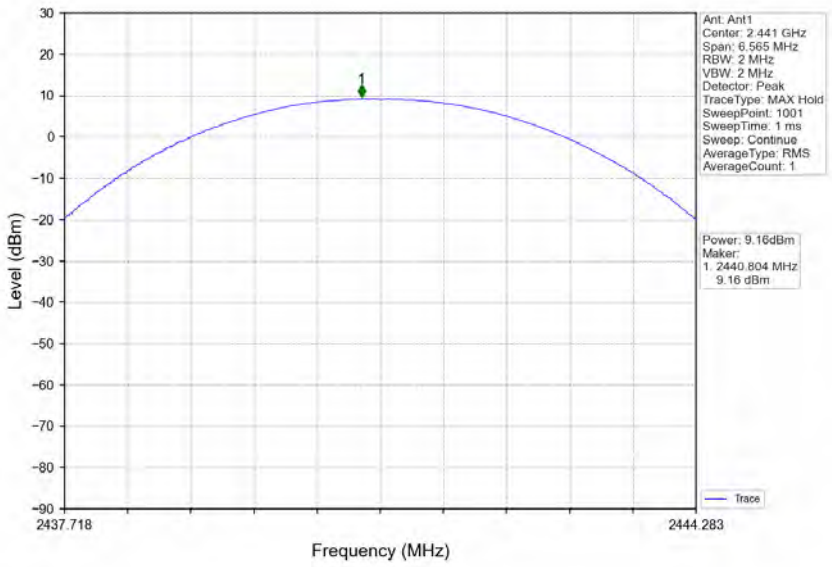
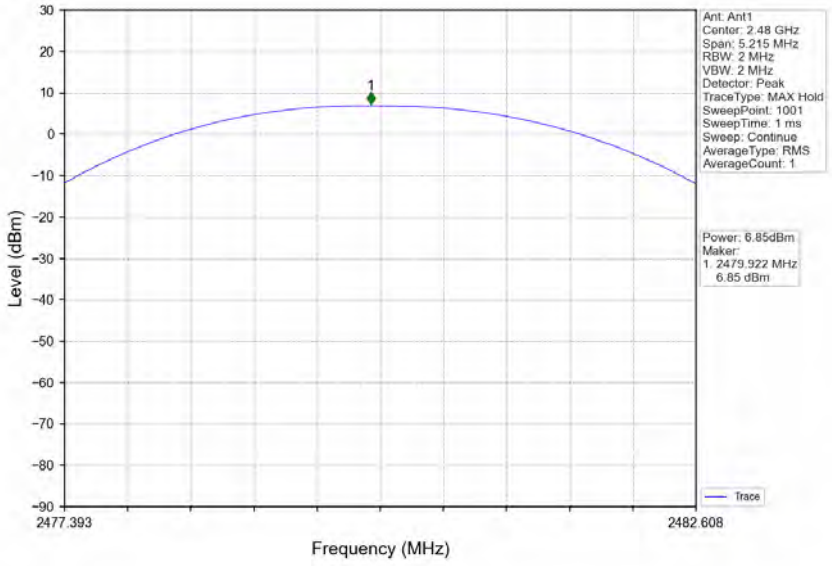
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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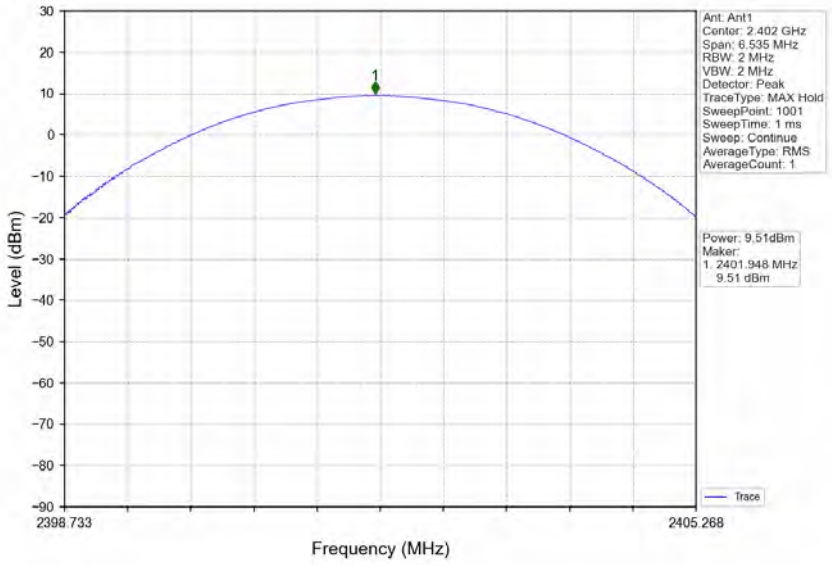
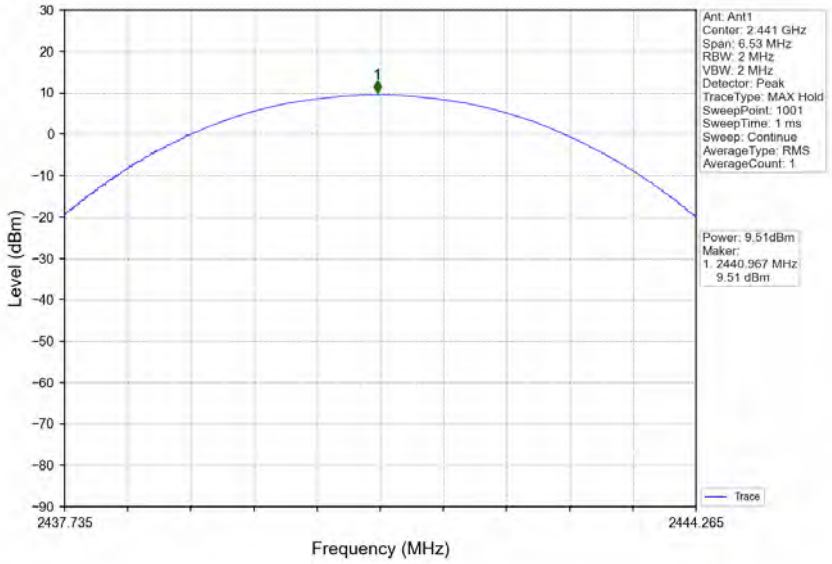
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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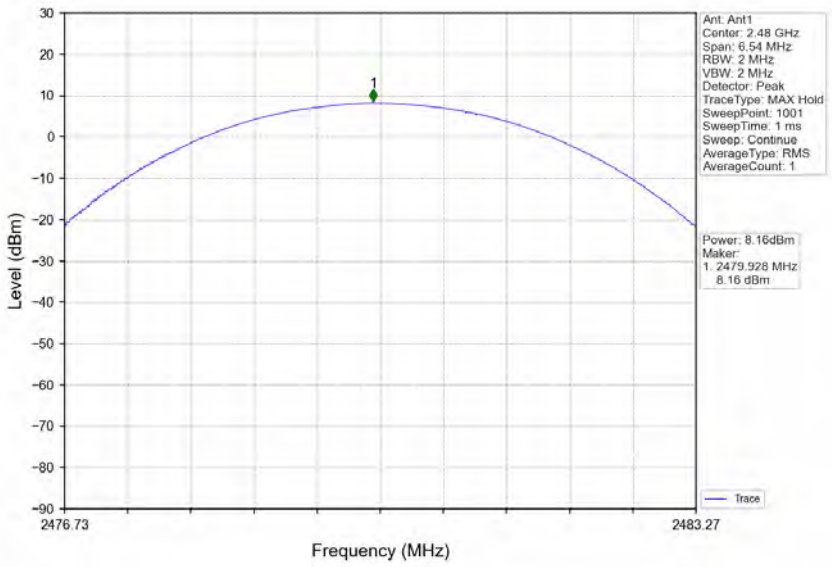

3. Carrier Frequency Separation

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	1.004	1.035	>=0.69	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.986	1.313	>=0.875	Pass
8DPSK	SISO	HOPP	3DH5	1.013	1.308	>=0.872	Pass

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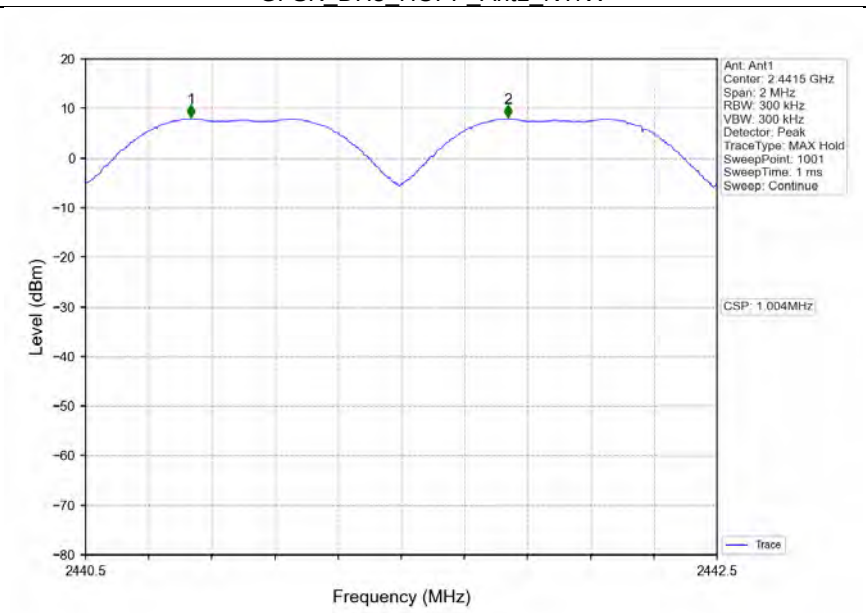
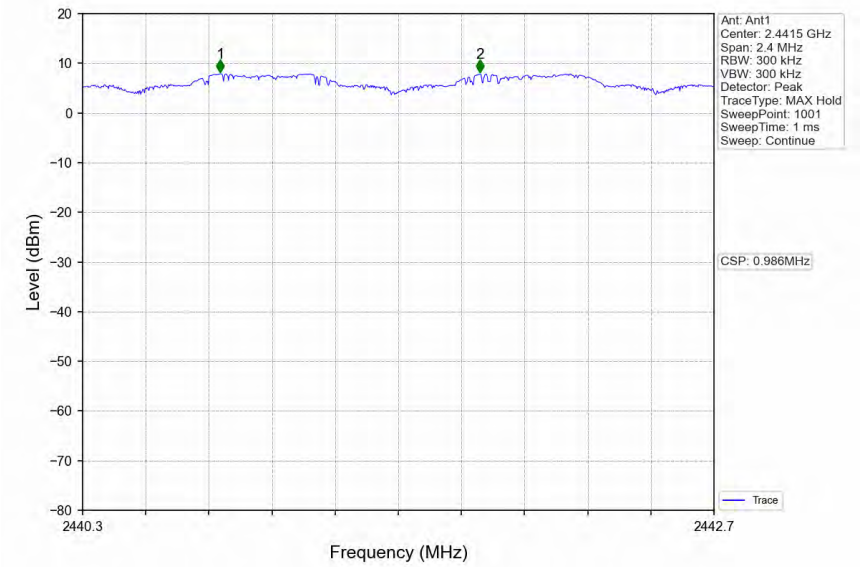
3.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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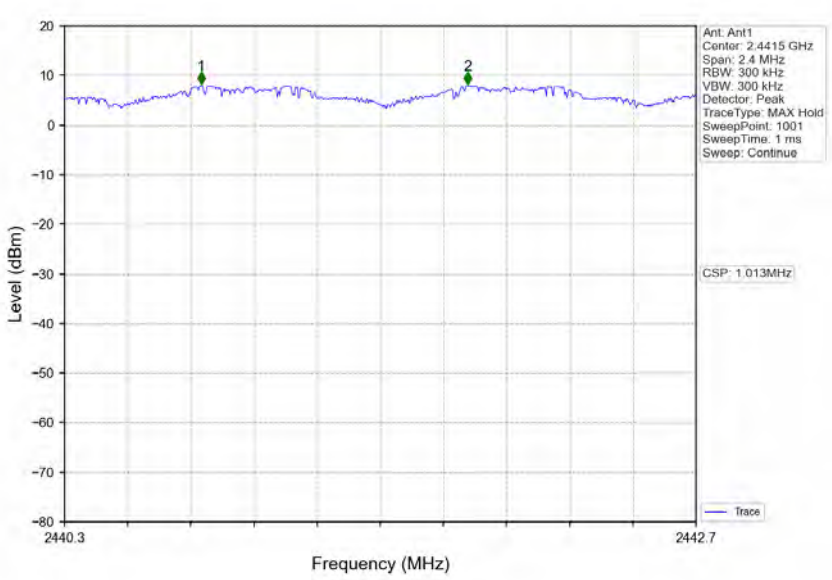
8DPSK_3DH5_HOPP_Ant1_NTNV


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

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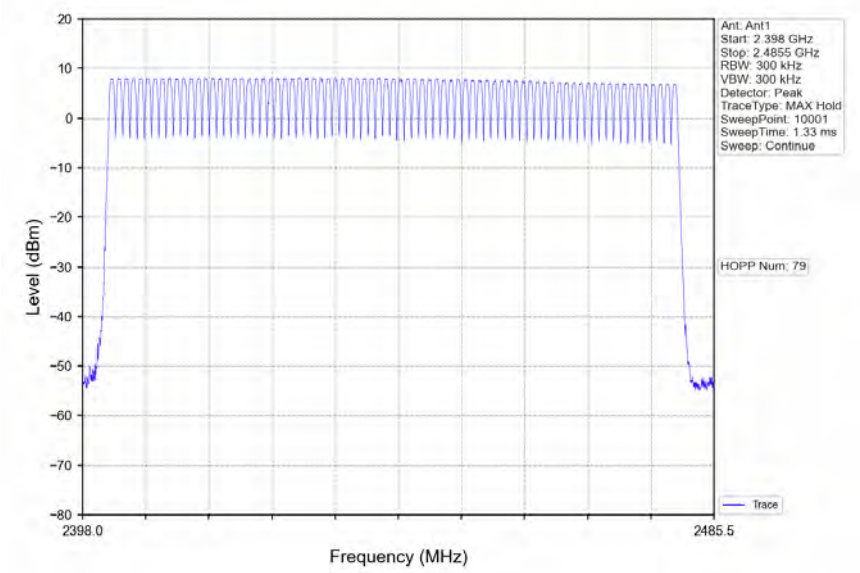
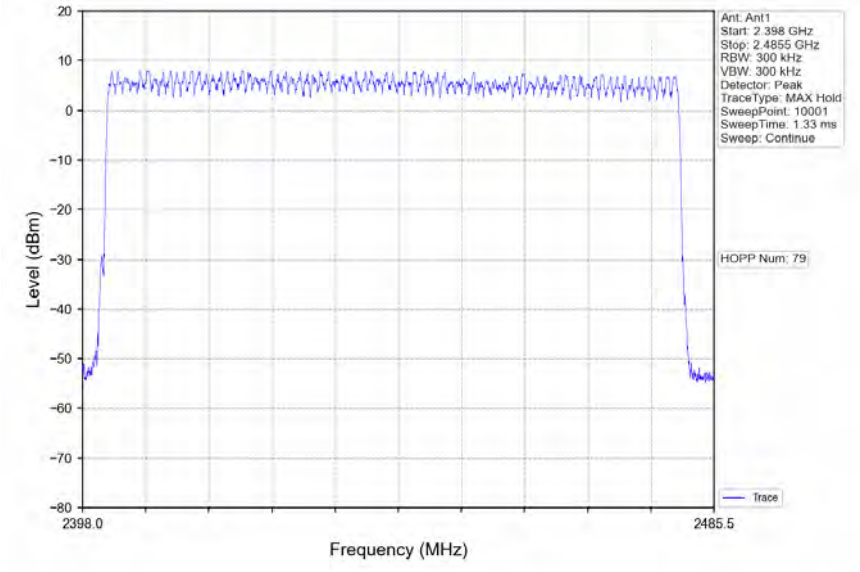
4.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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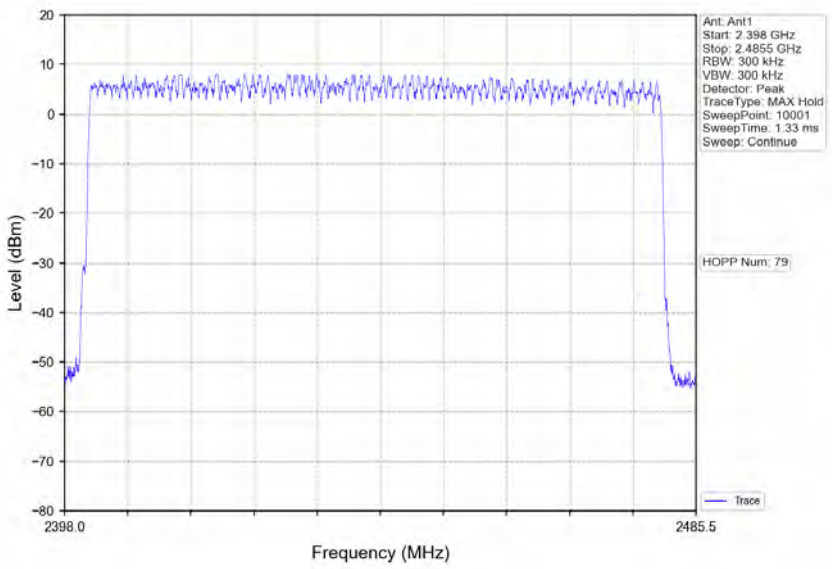
8DPSK_3DH5_HOPP_Ant1_NTNV



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	0.372	31.600	320	119.040	<=400	Pass
			DH3	1.626	31.600	150	243.900	<=400	Pass
			DH5	2.874	31.600	114	327.636	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.380	31.600	320	121.600	<=400	Pass
			2DH3	1.632	31.600	159	259.488	<=400	Pass
			2DH5	2.880	31.600	116	334.080	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.380	31.600	319	121.220	<=400	Pass
			3DH3	1.630	31.600	157	255.910	<=400	Pass
			3DH5	2.882	31.600	88	253.616	<=400	Pass

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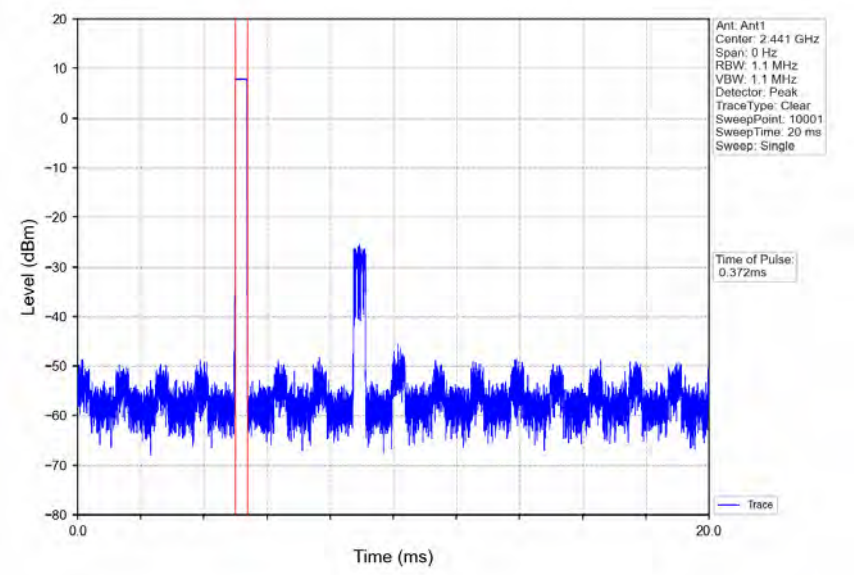
5.1.2 Test Graph

GFSK_DH1_HOPP_Ant1_NTNV



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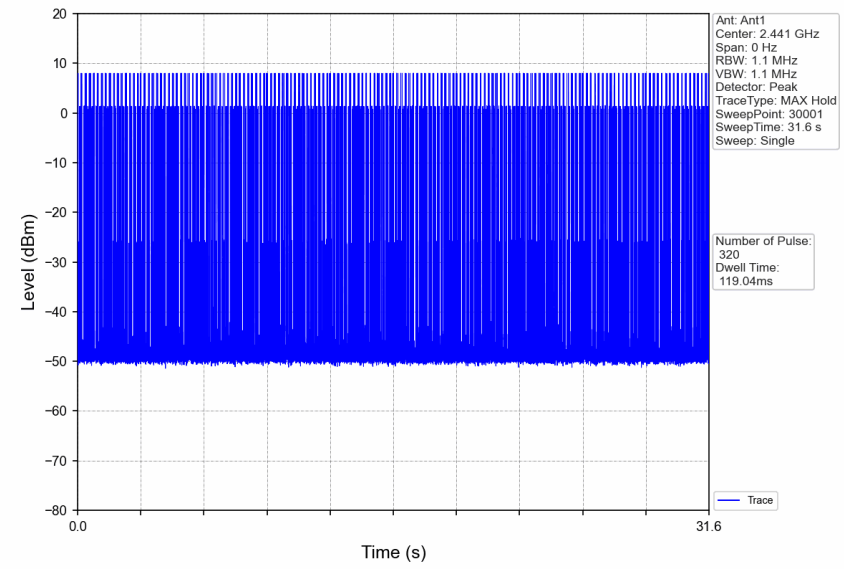

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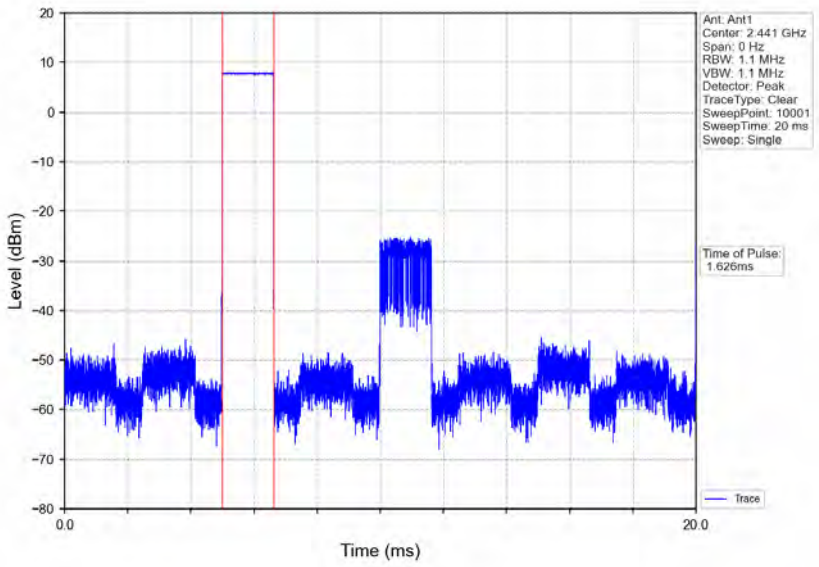

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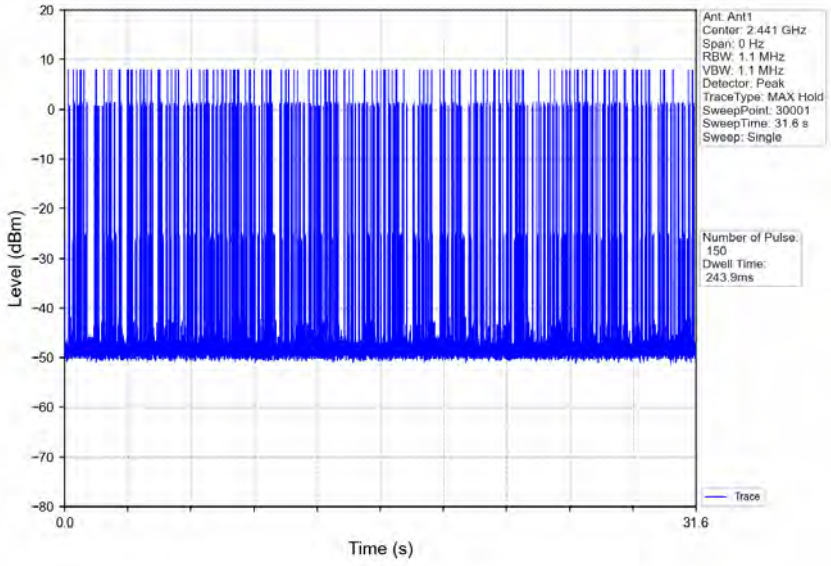

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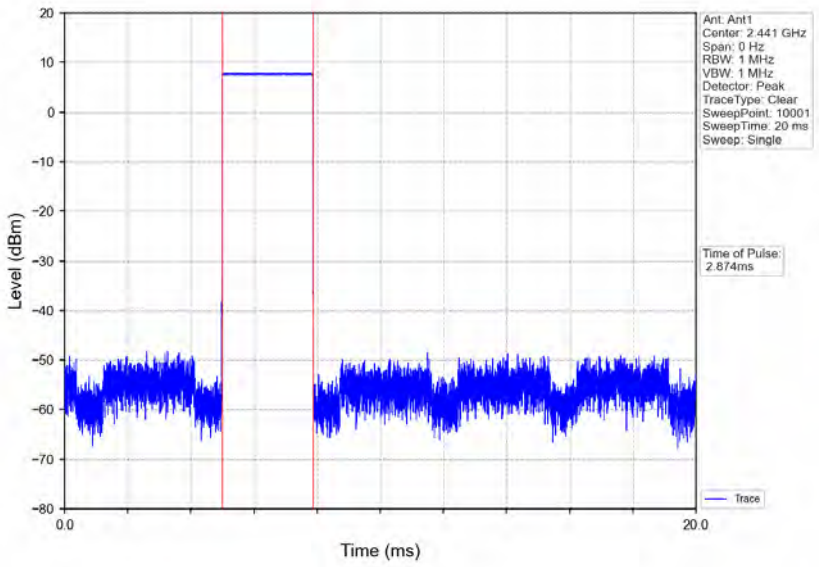
GFSK_DH5_HOPP_Ant1_NTNV



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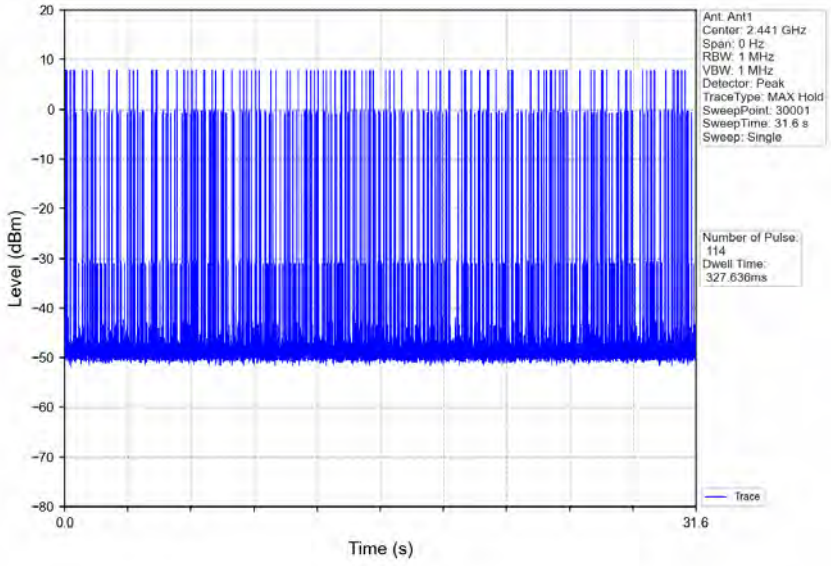

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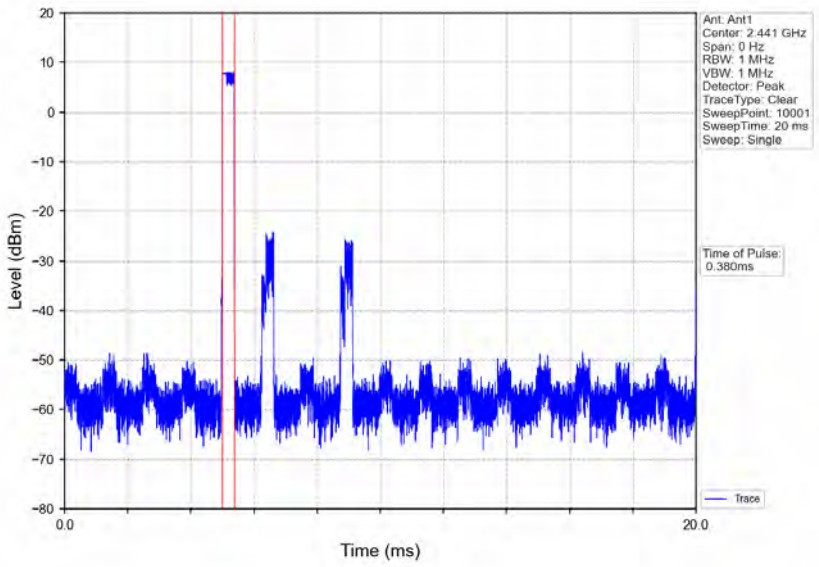
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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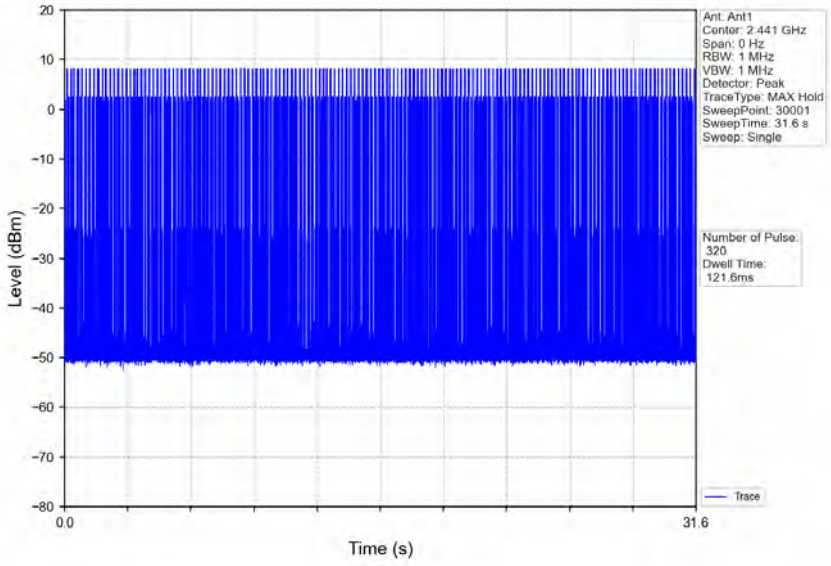

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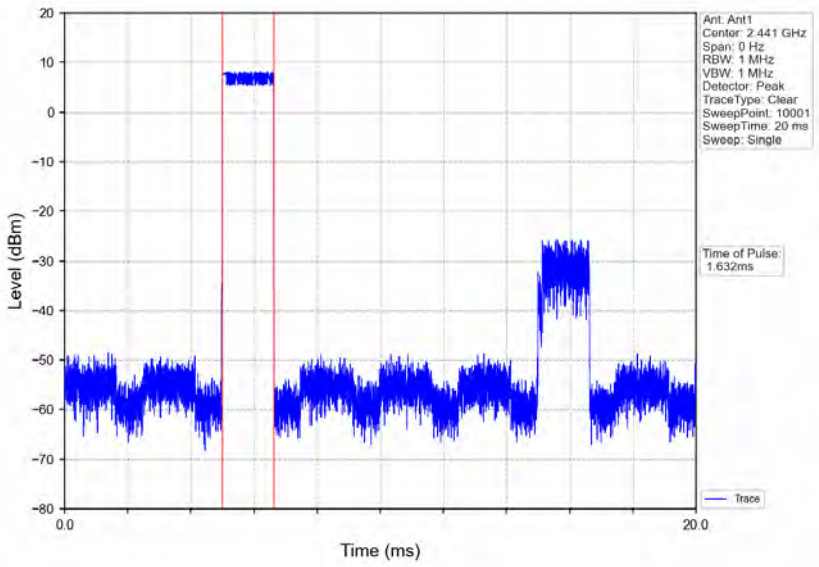

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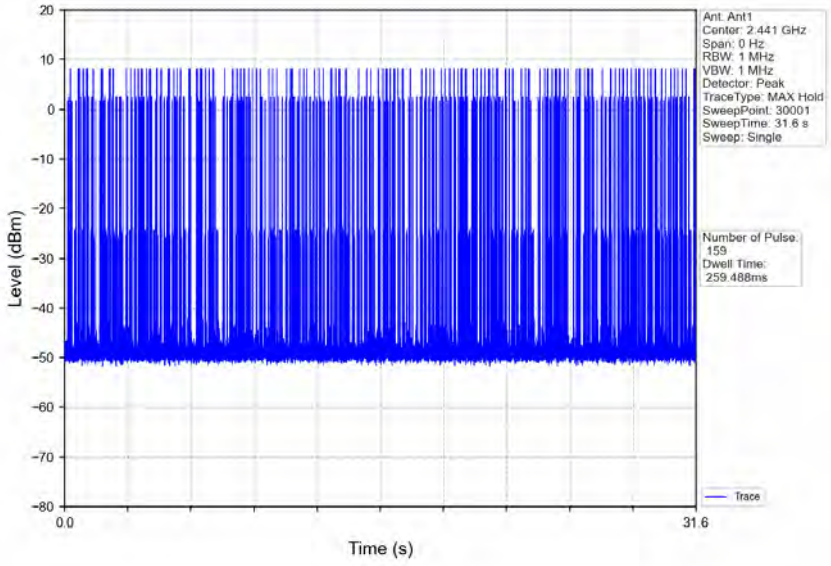

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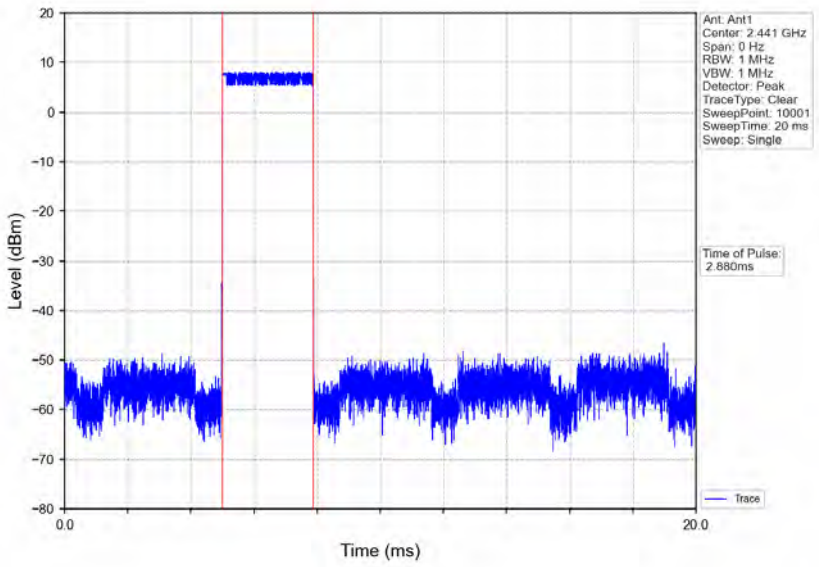

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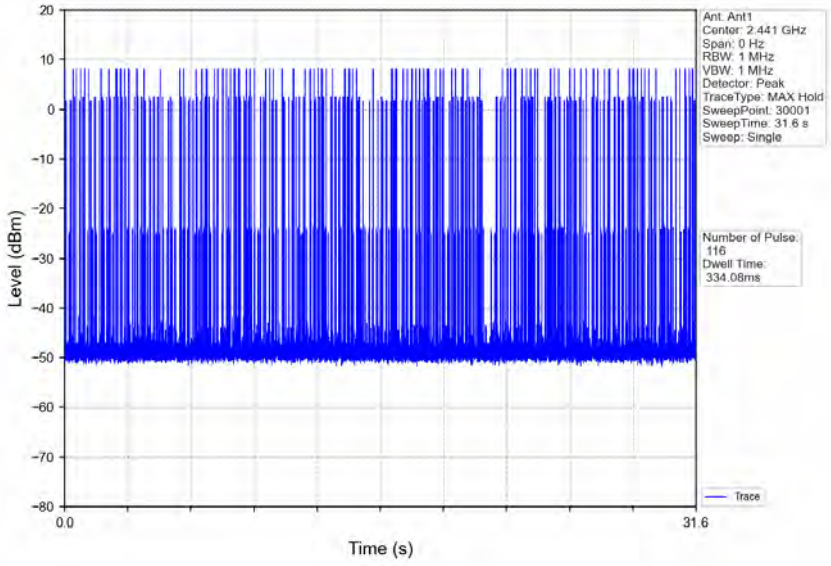

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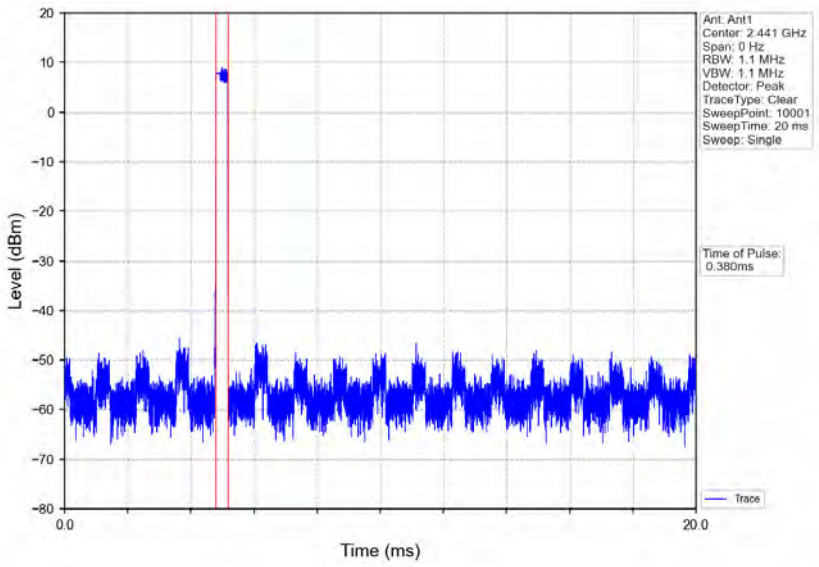
8DPSK_3DH1_HOPP_Ant1_NTNV



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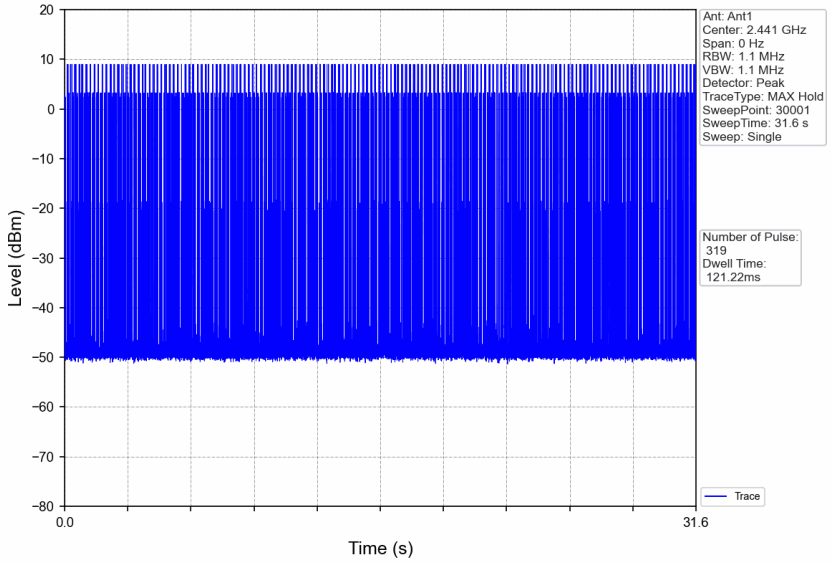

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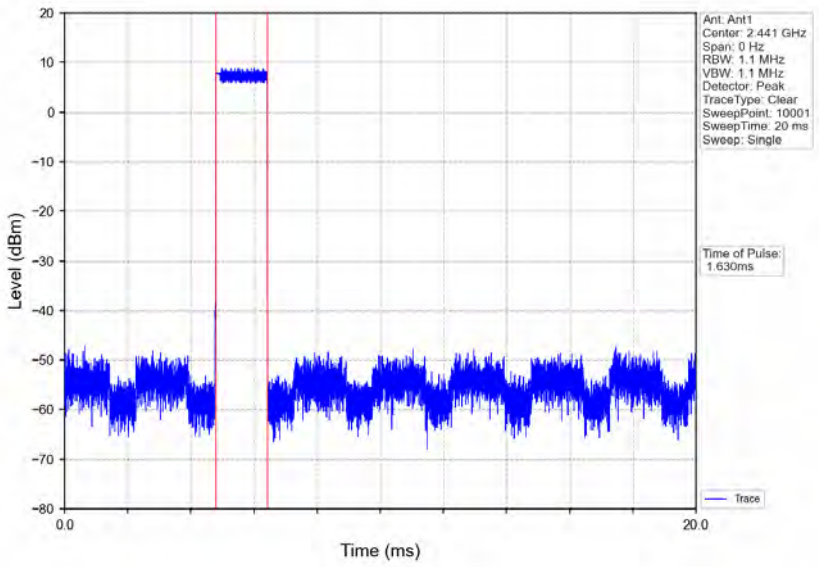

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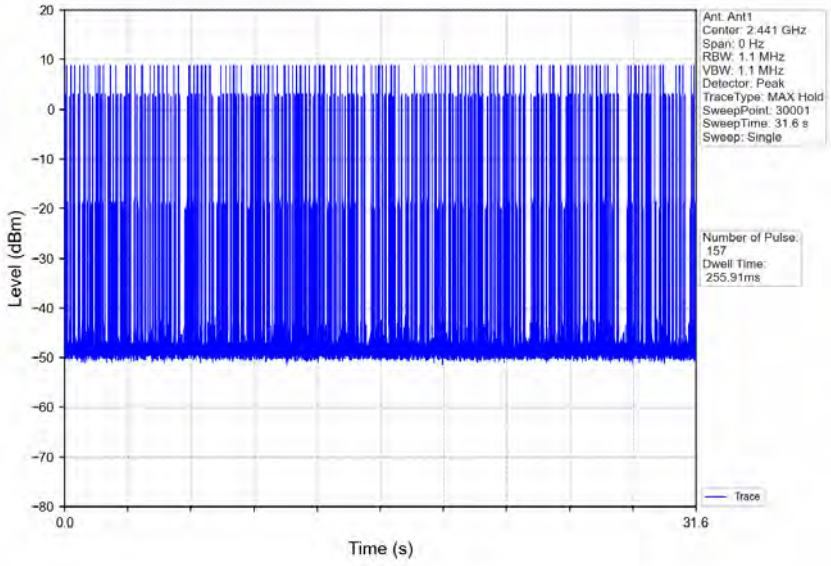

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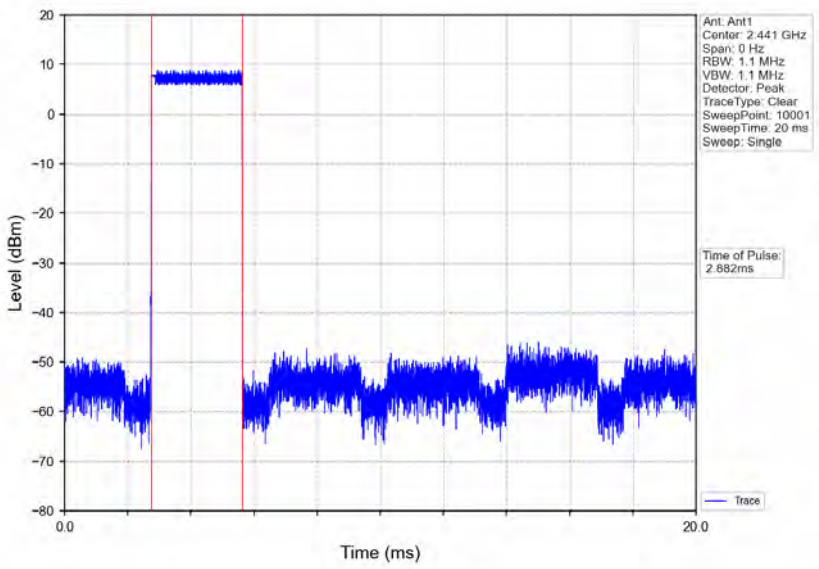
8DPSK_3DH5_HOPP_Ant1_NTNV



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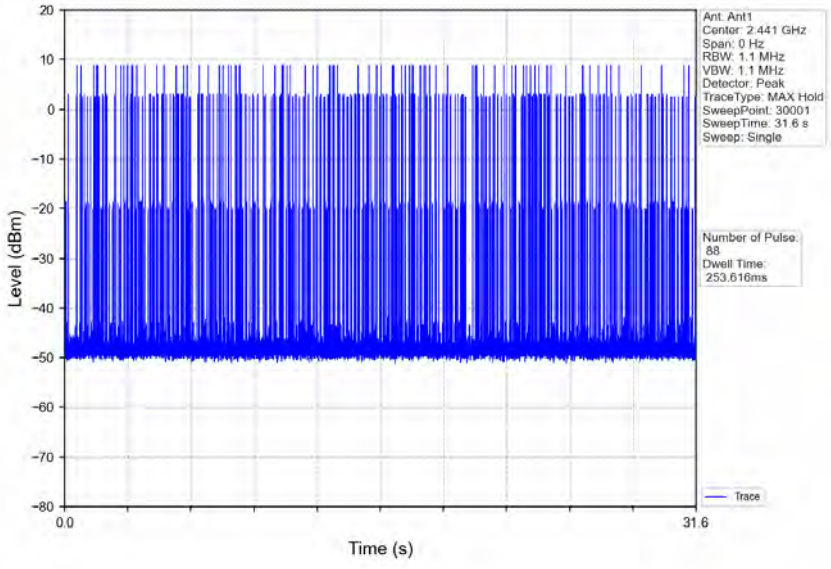

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6. Unwanted Emissions In Non-restricted Frequency Bands

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	8.02
		2441	DH5	1	7.99
		2480	DH5	1	6.75
Pi/4DQPSK	SISO	2402	2DH5	1	7.99
		2441	2DH5	1	7.97
		2480	2DH5	1	6.56
8DPSK	SISO	2402	3DH5	1	7.99
		2441	3DH5	1	7.96
		2480	3DH5	1	6.58
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.					

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6.1.2 Test Graph

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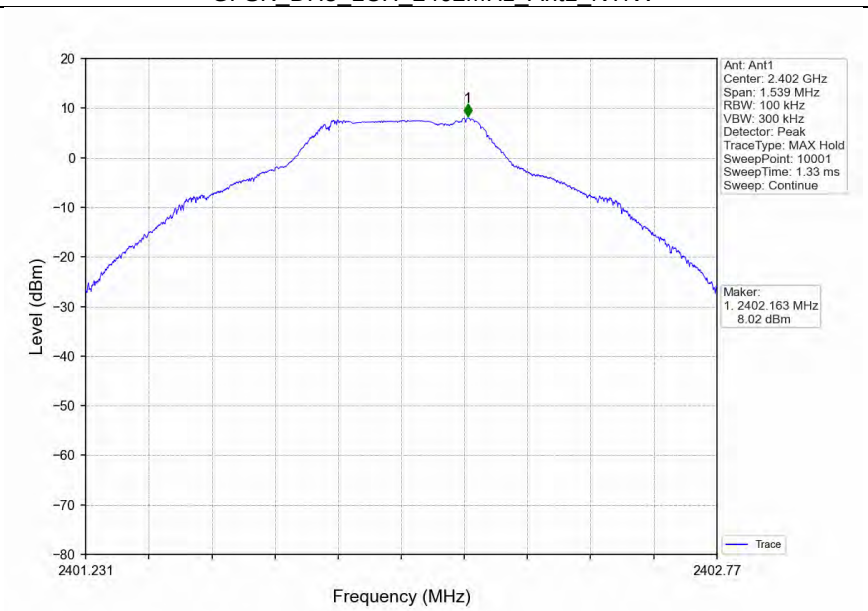
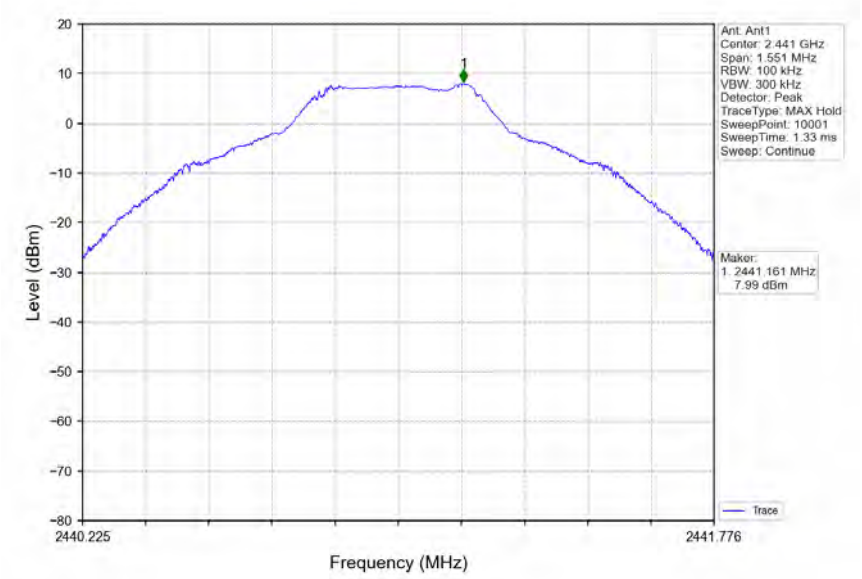


GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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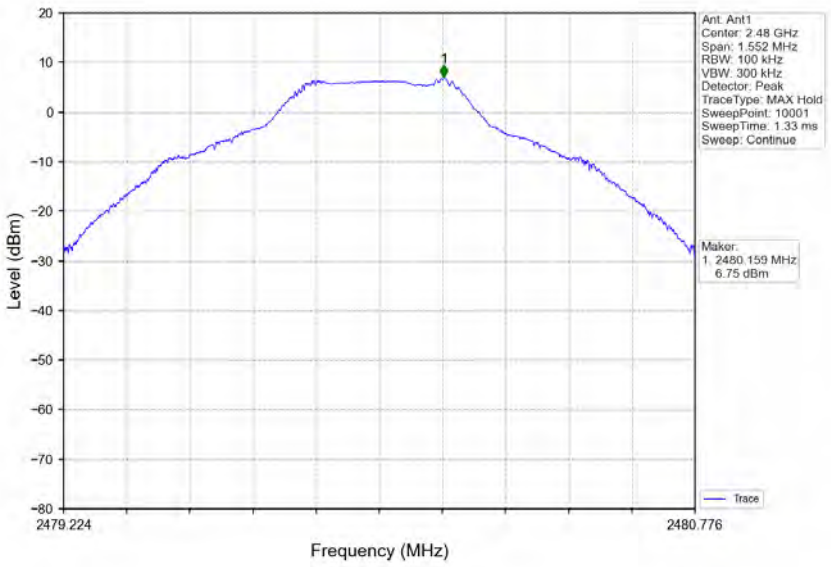
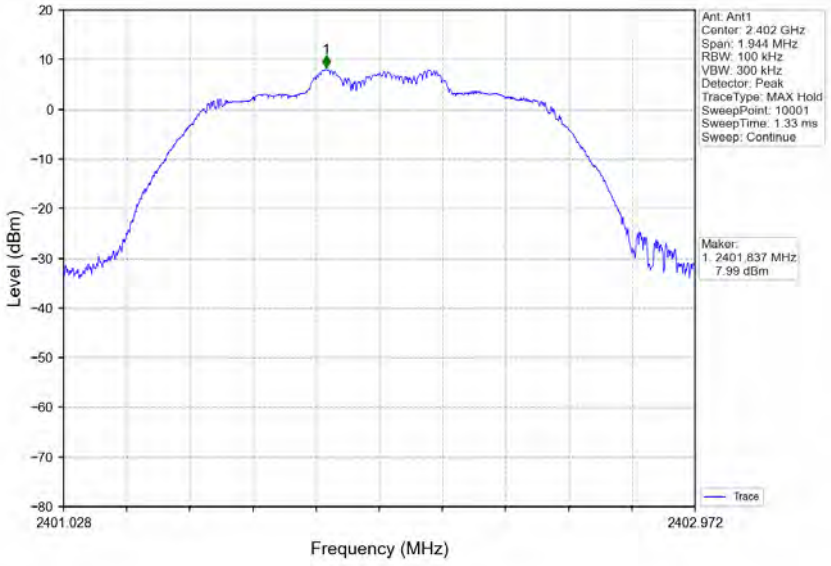
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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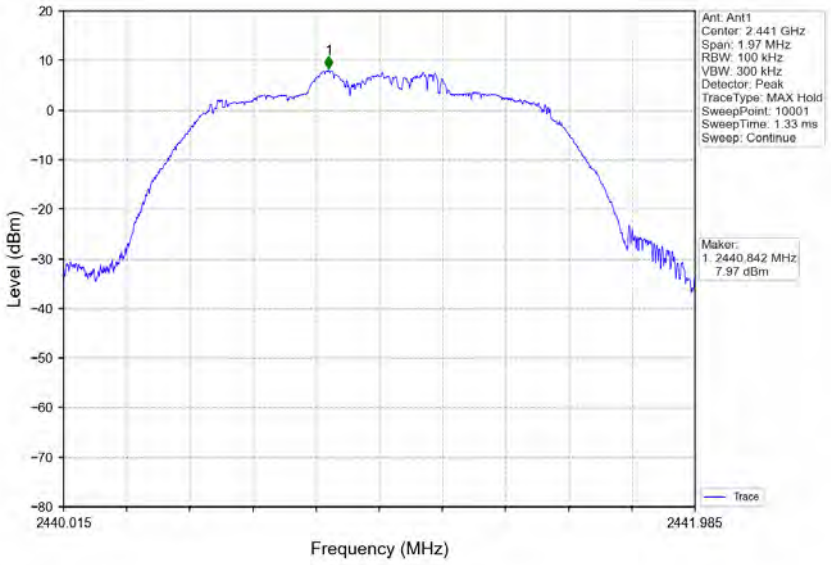
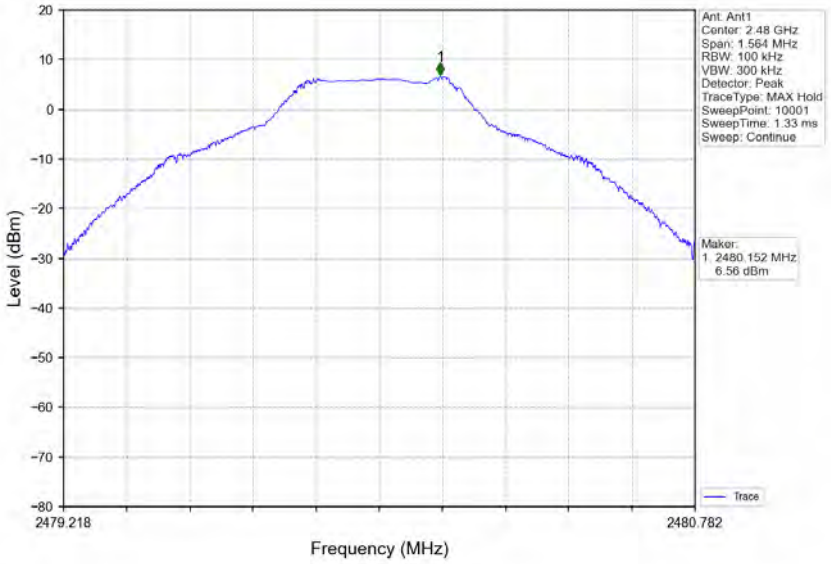
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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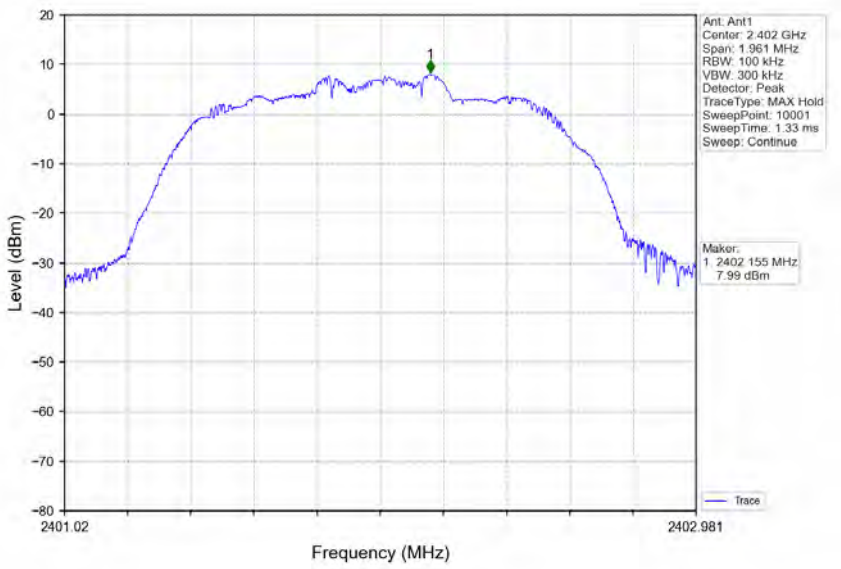
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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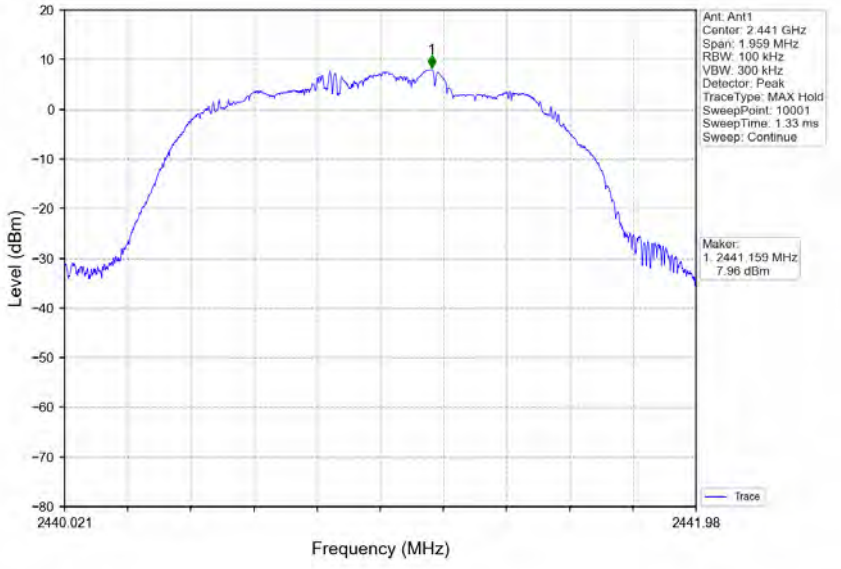

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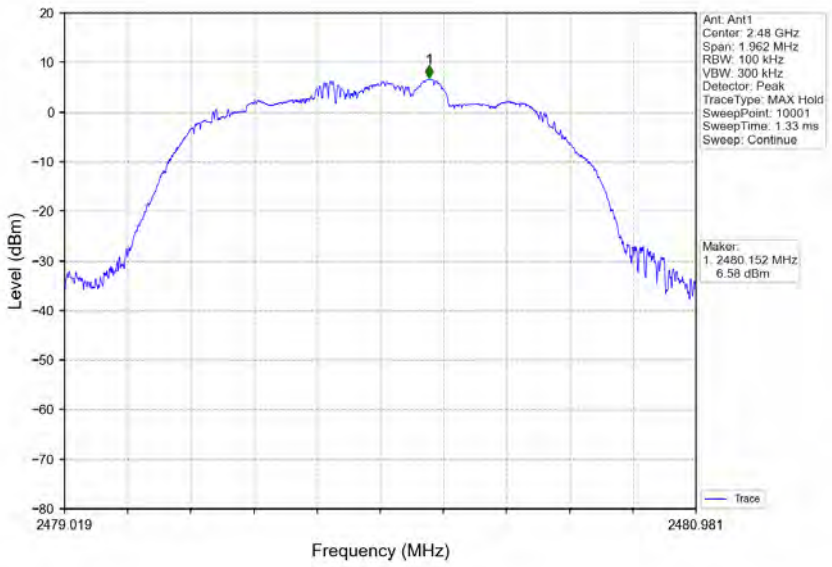
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV


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	8.02	-11.98	Pass
		2441	DH5	1	8.02	-11.98	Pass
		2480	DH5	1	8.02	-11.98	Pass
		HOPP	DH5	1	8.02	-11.98	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	7.99	-12.01	Pass
		2441	2DH5	1	7.99	-12.01	Pass
		2480	2DH5	1	7.99	-12.01	Pass
		HOPP	2DH5	1	7.99	-12.01	Pass
8DPSK	SISO	2402	3DH5	1	7.99	-12.01	Pass
		2441	3DH5	1	7.99	-12.01	Pass
		2480	3DH5	1	7.99	-12.01	Pass
		HOPP	3DH5	1	7.99	-12.01	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.							

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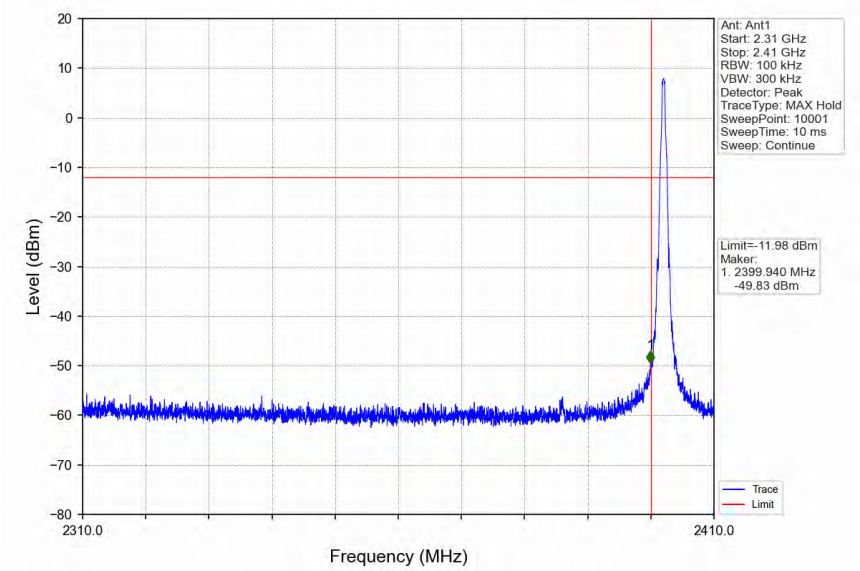
6.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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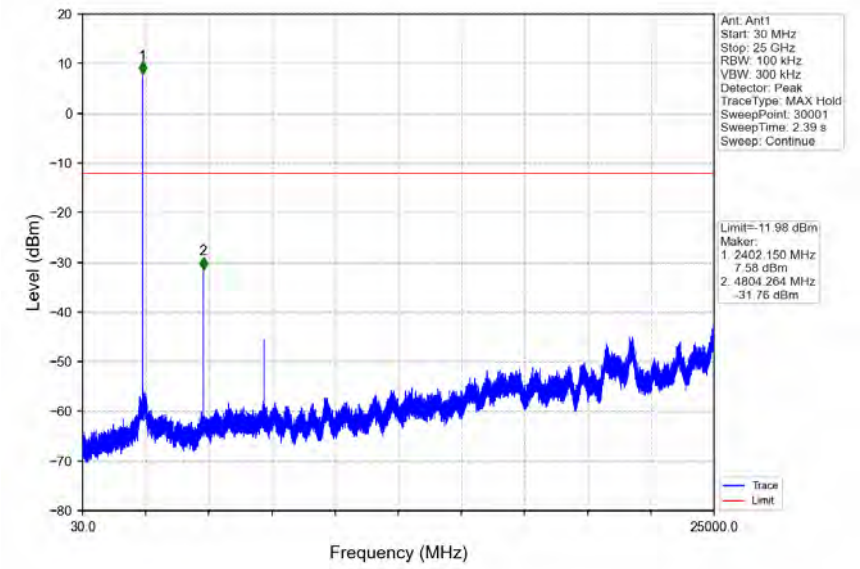

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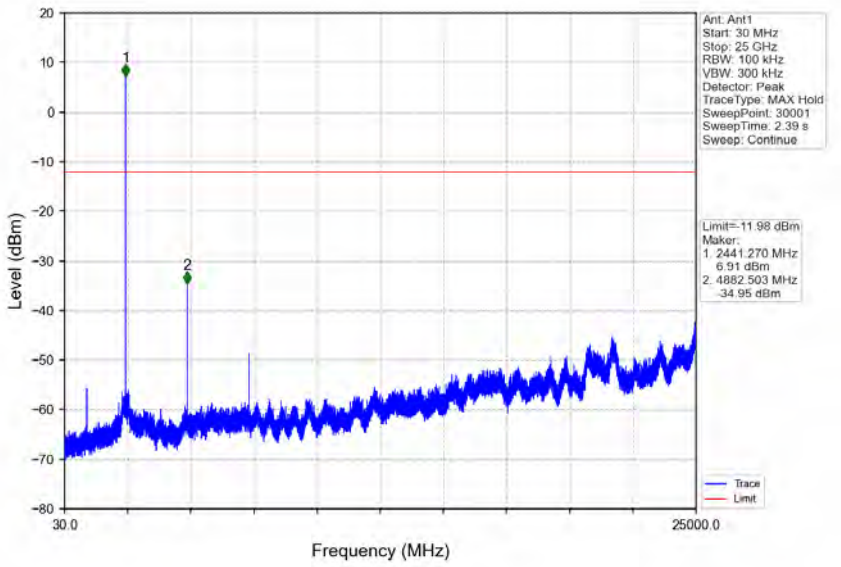
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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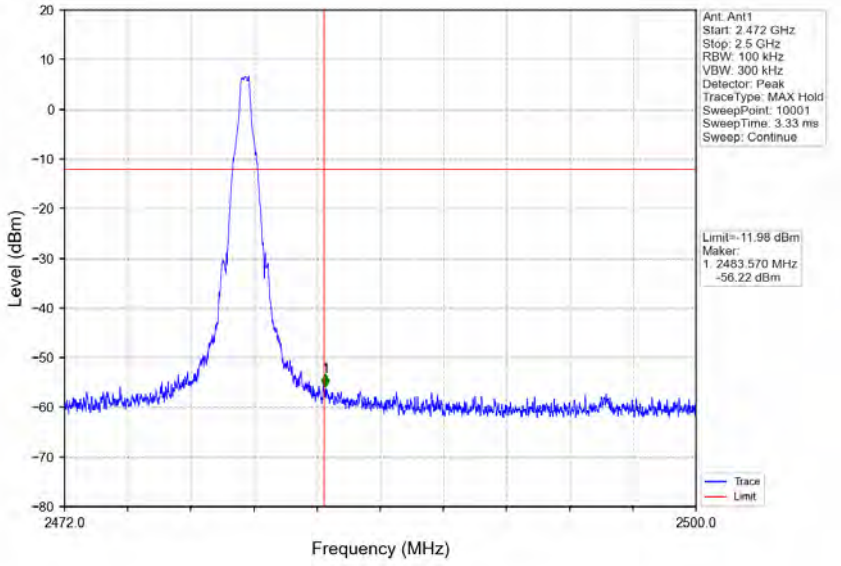

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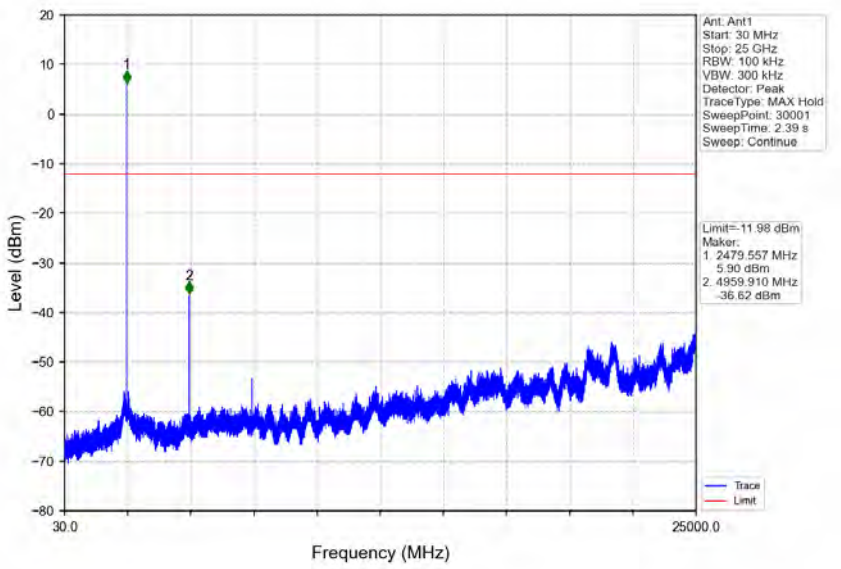
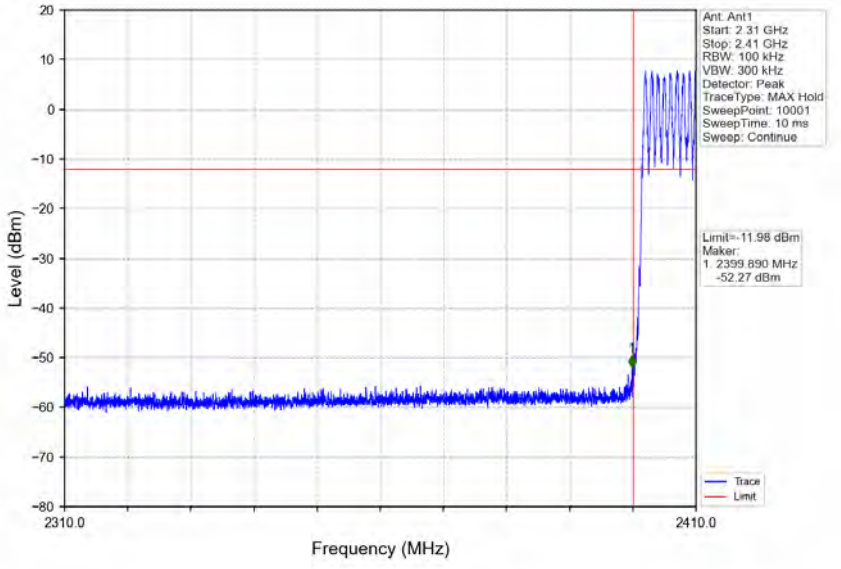


GFSK_DH5_HOPP_Ant1_NTNV



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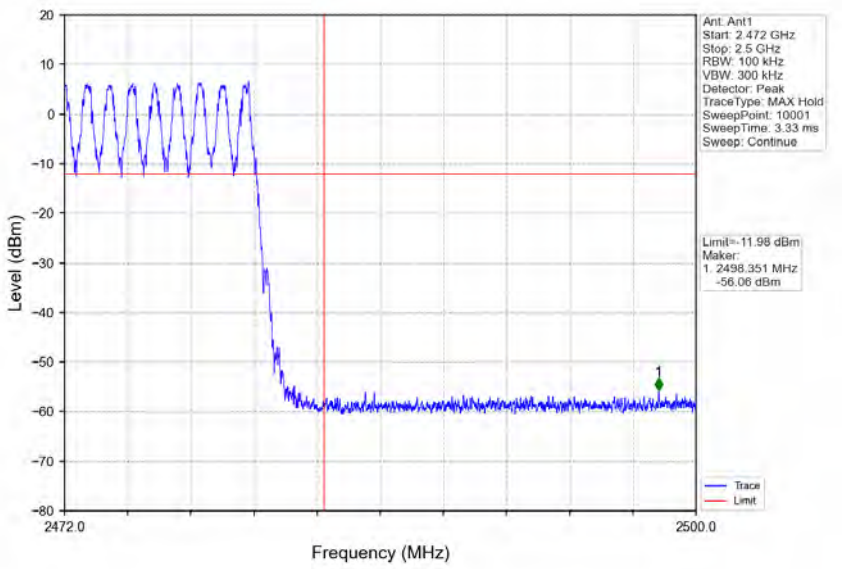
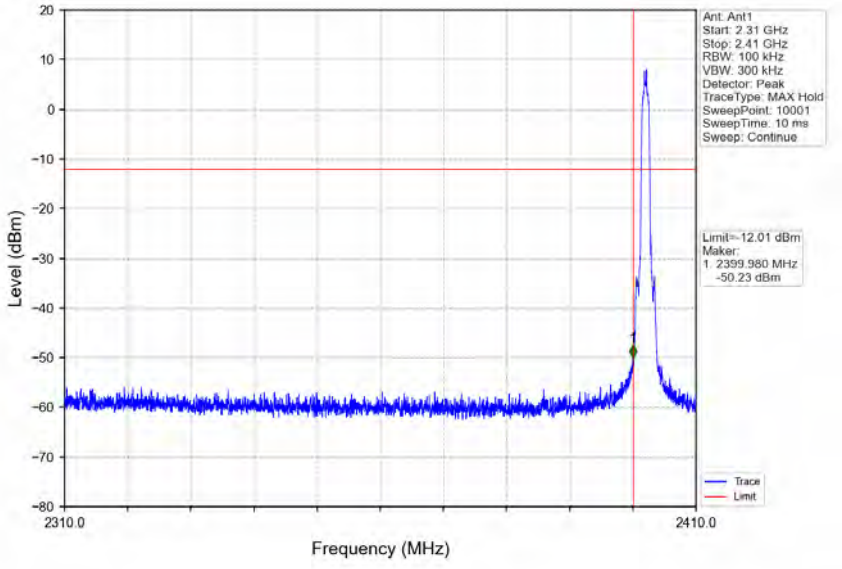
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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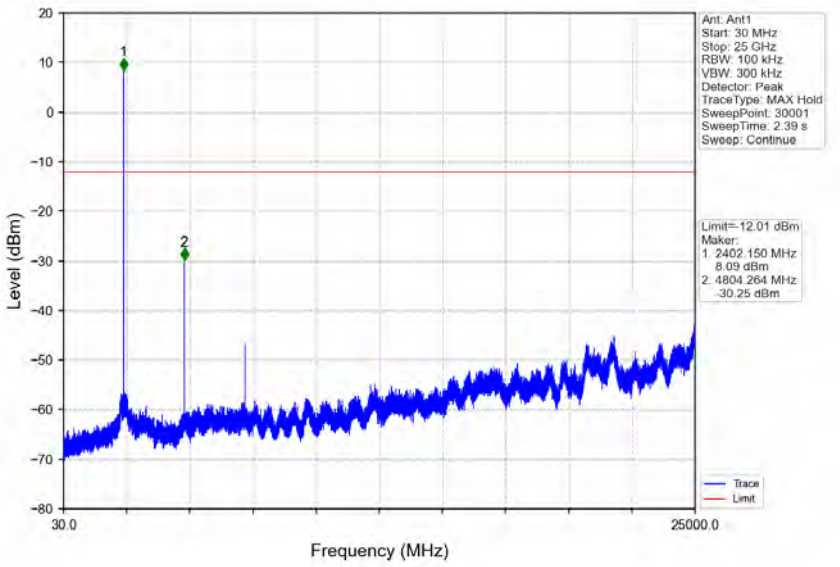

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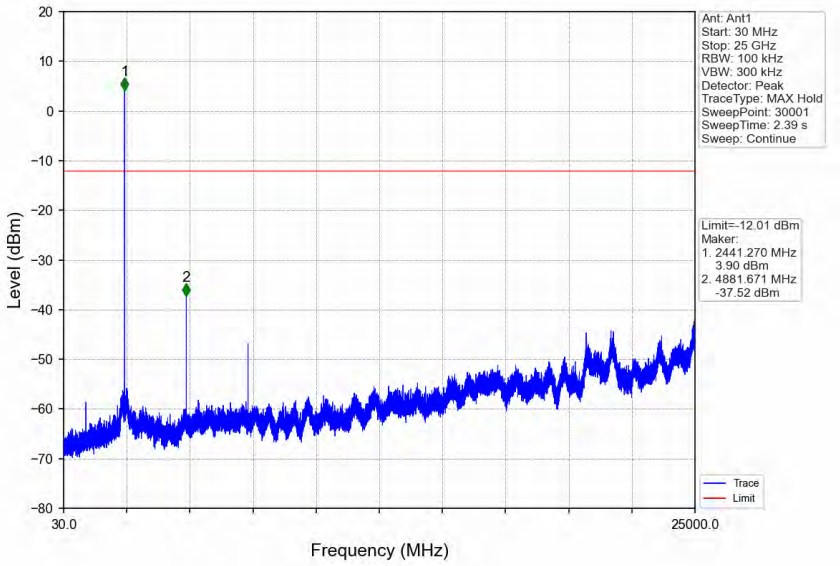

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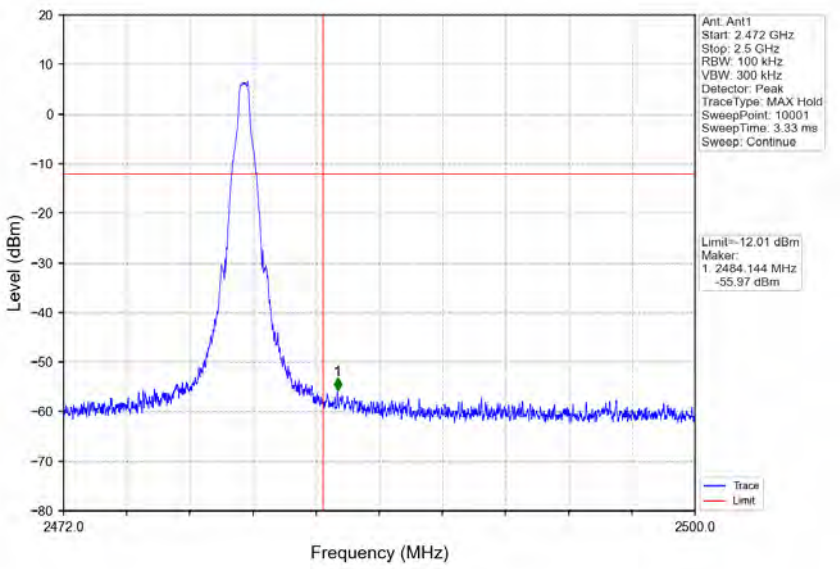

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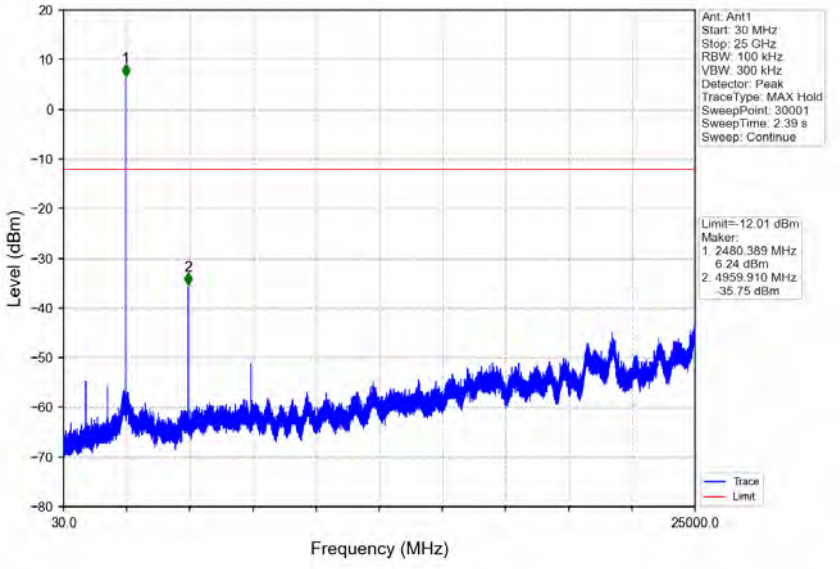

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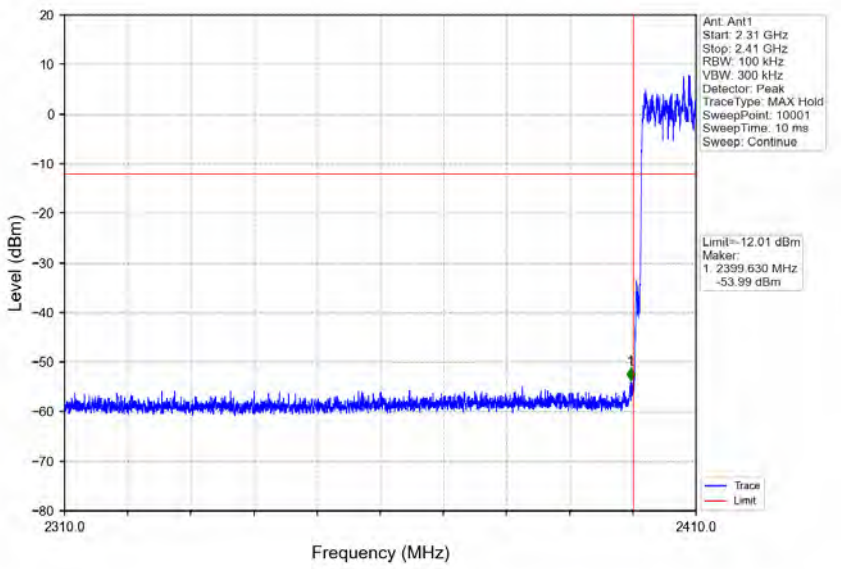

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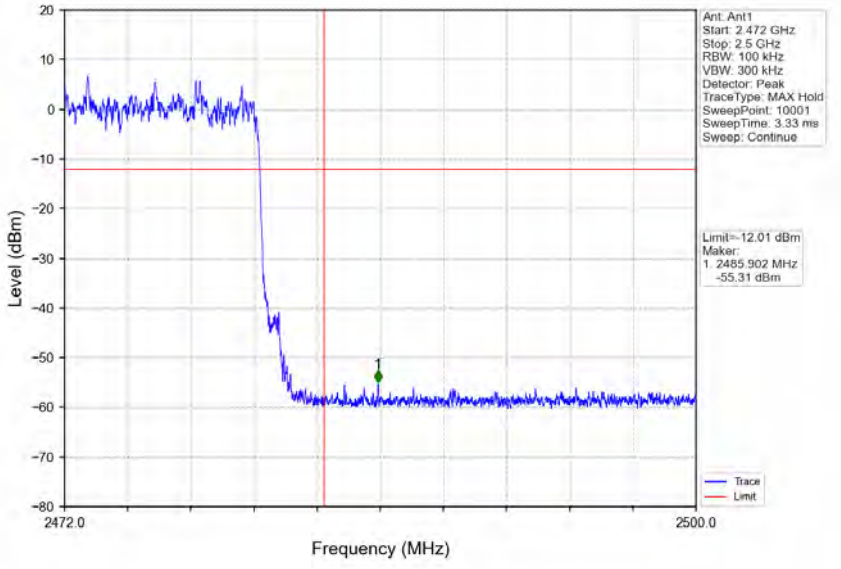

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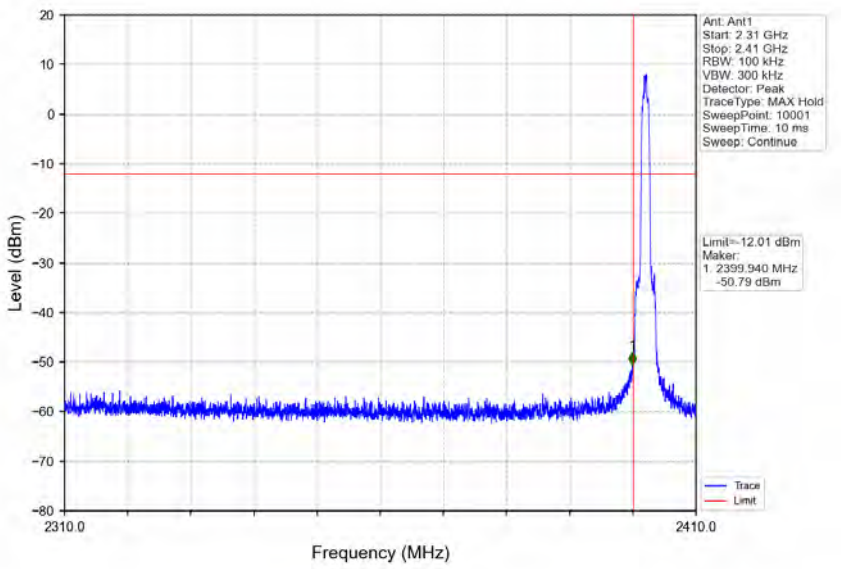
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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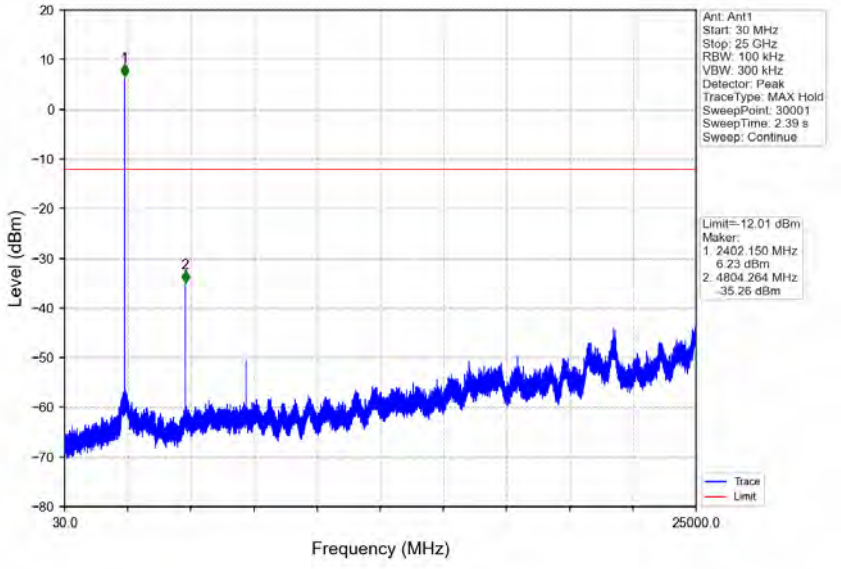

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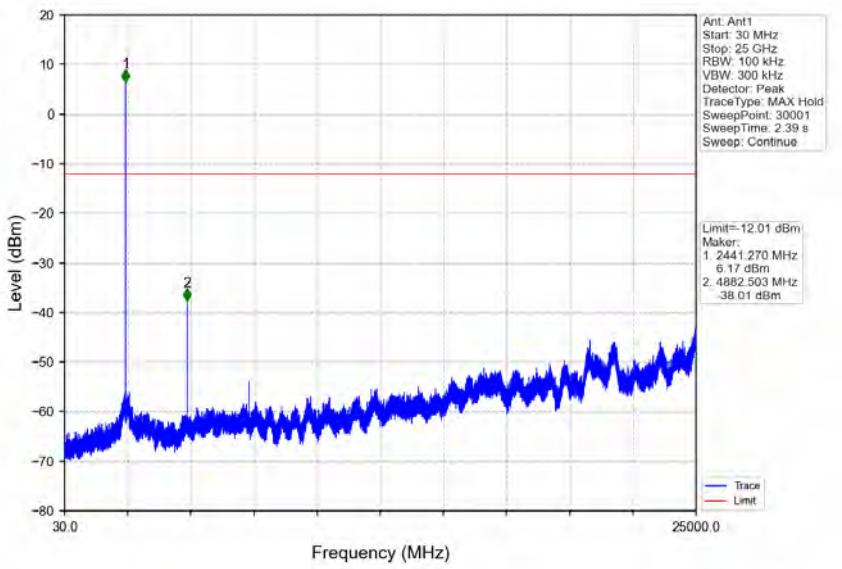
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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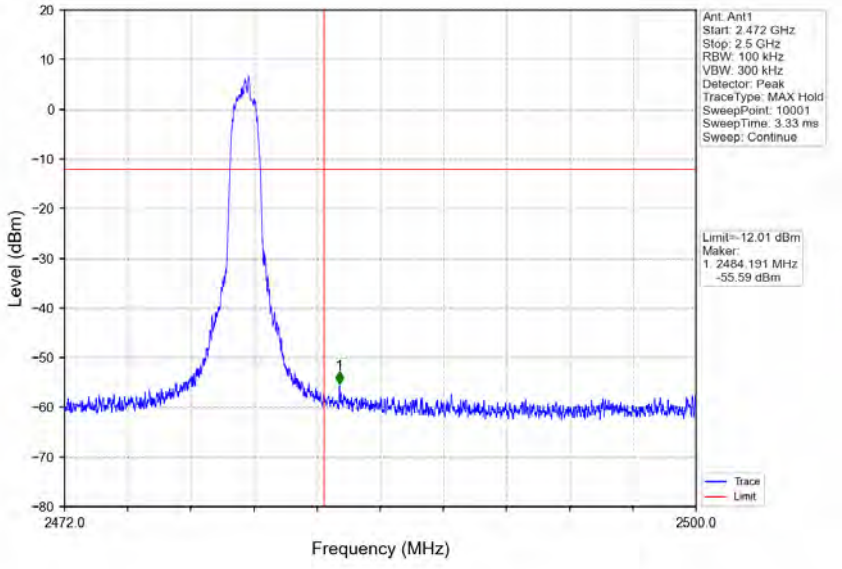

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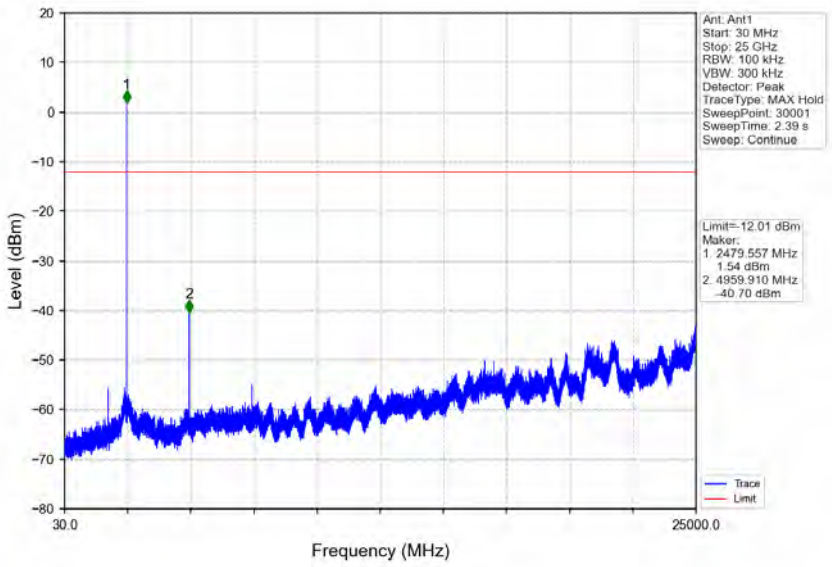
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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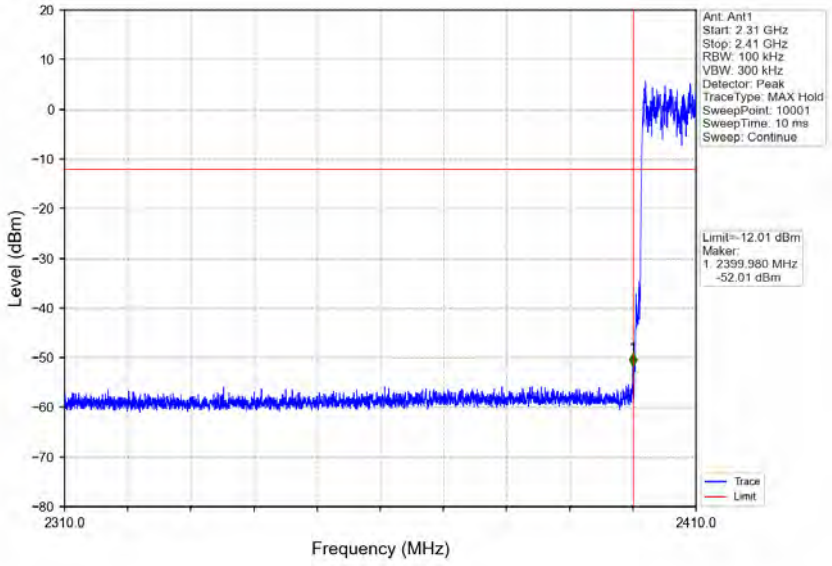

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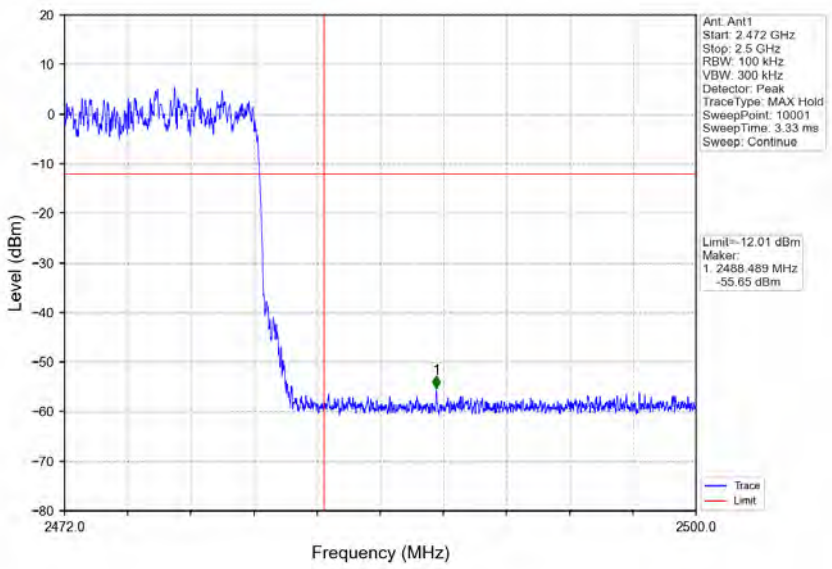
8DPSK_3DH5_HOPP_Ant1_NTNV


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(RF Module Realtek)

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	0.875	Pass
		2441	DH5	1	0.875	Pass
		2480	DH5	1	0.877	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.164	Pass
		2441	2DH5	1	1.166	Pass
		2480	2DH5	1	1.164	Pass
8DPSK	SISO	2402	3DH5	1	1.173	Pass
		2441	3DH5	1	1.177	Pass
		2480	3DH5	1	1.175	Pass

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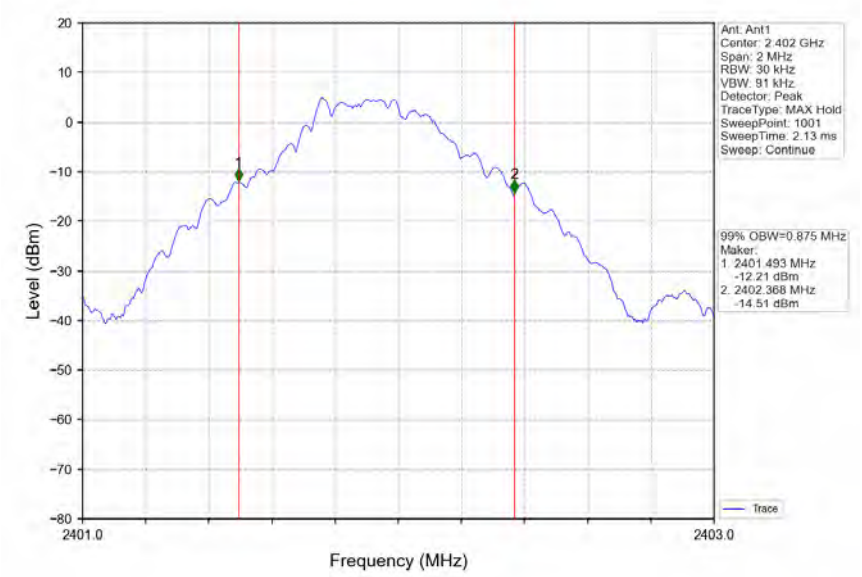
1.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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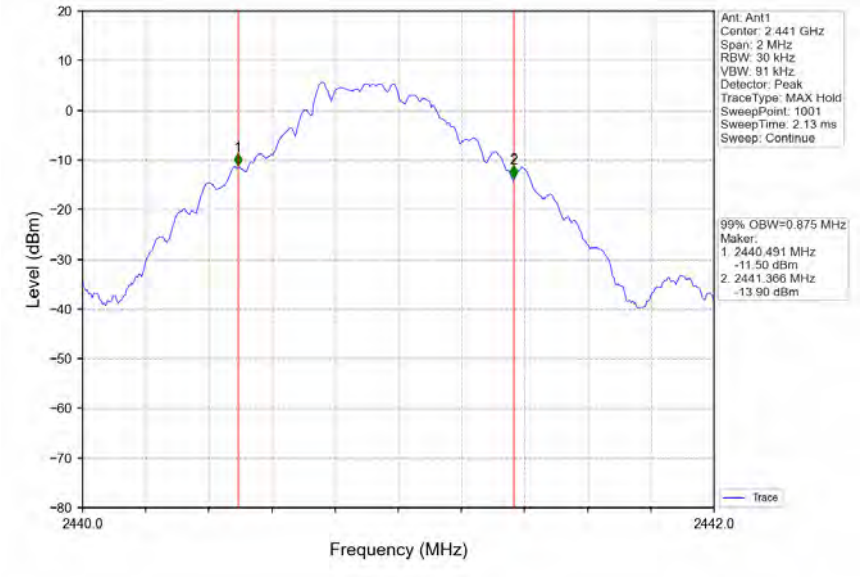

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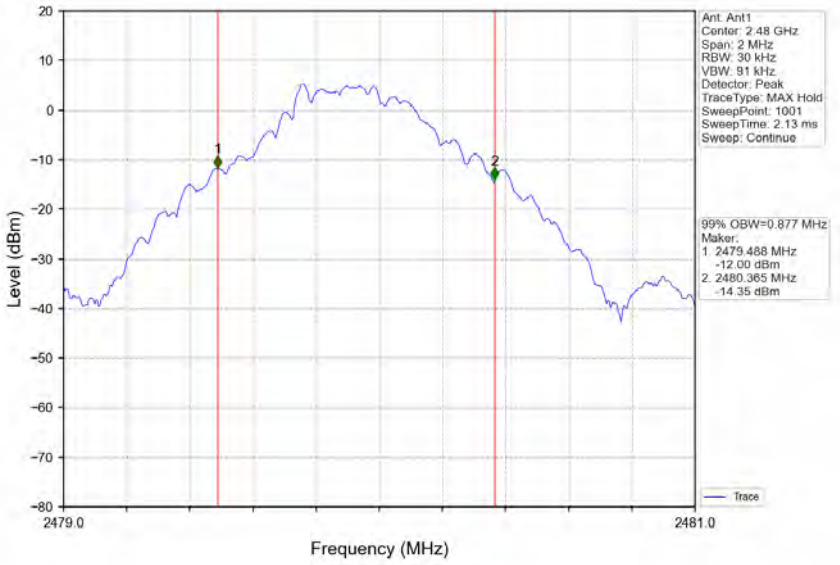
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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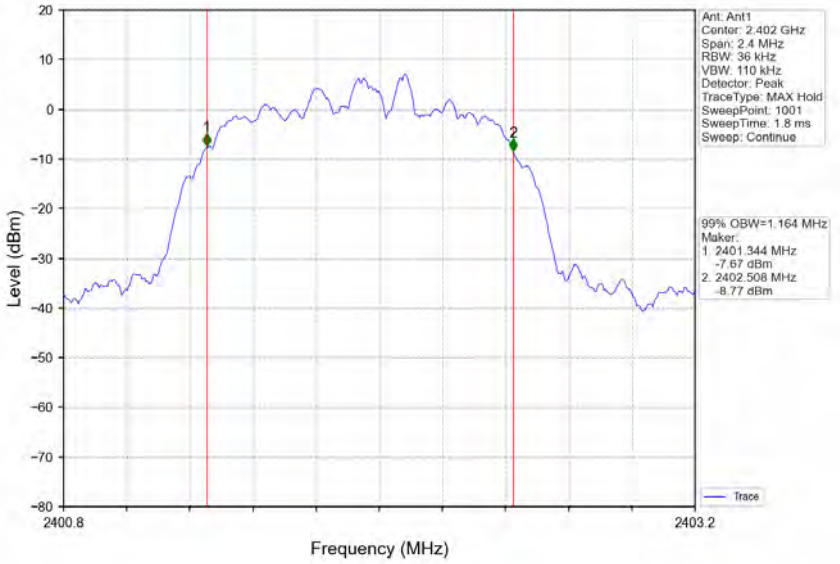

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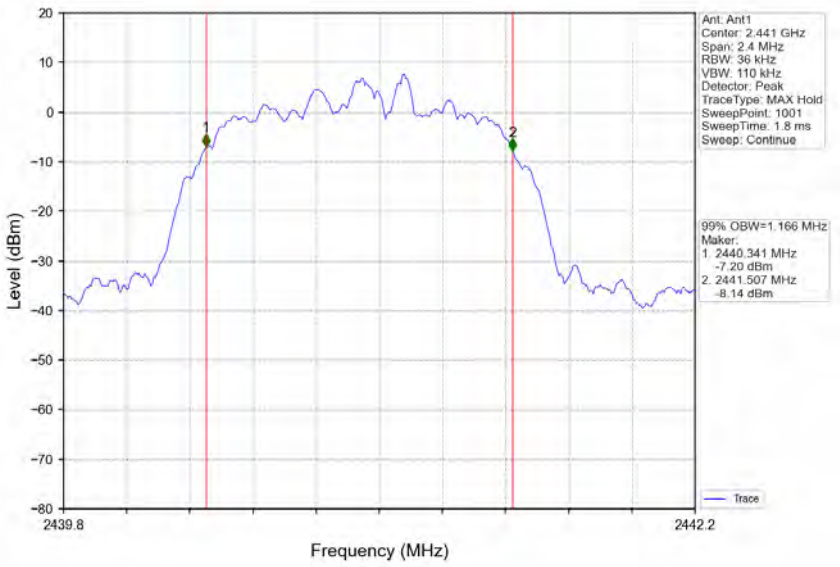
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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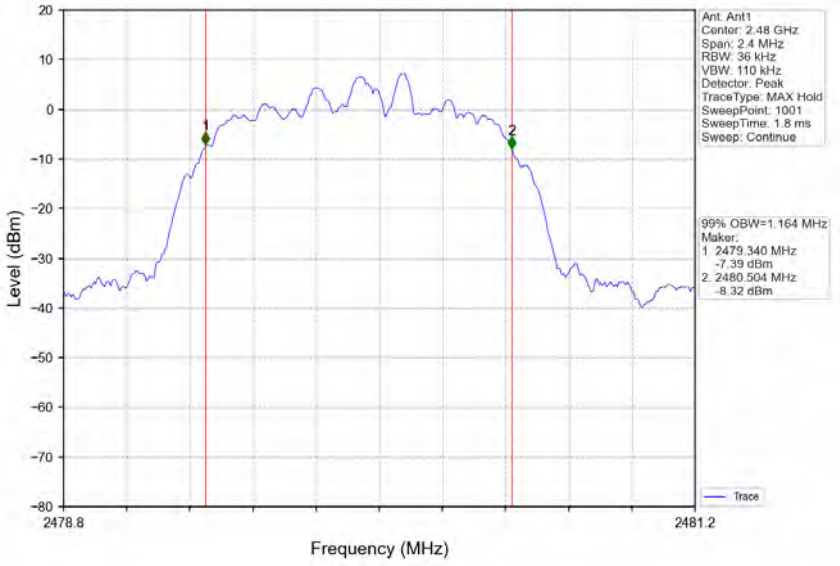

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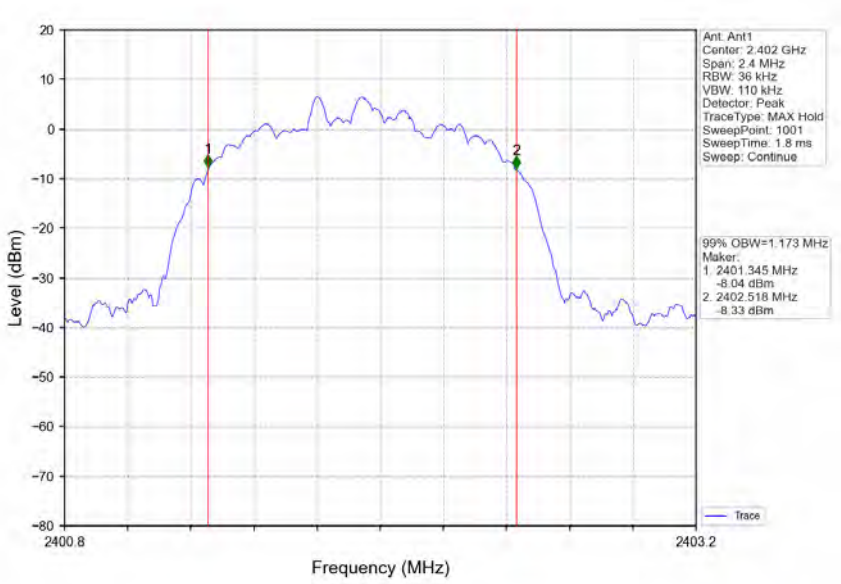

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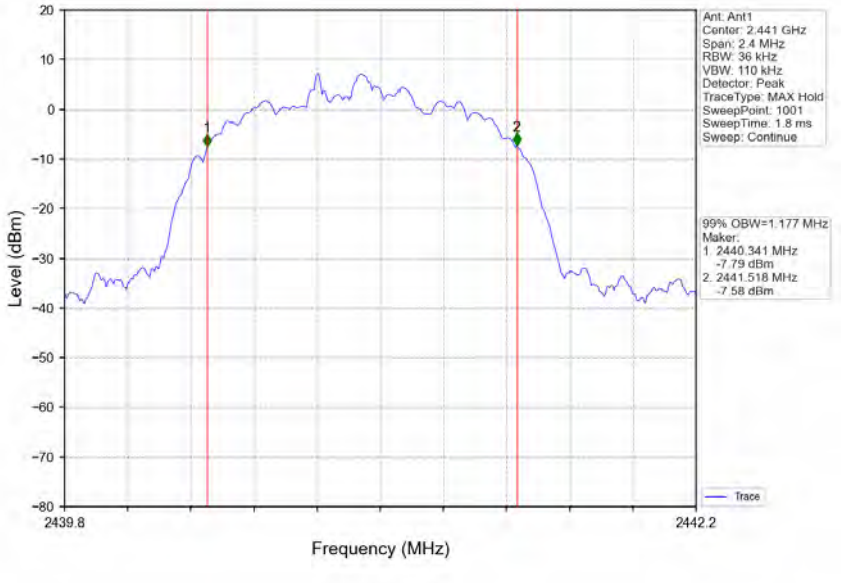

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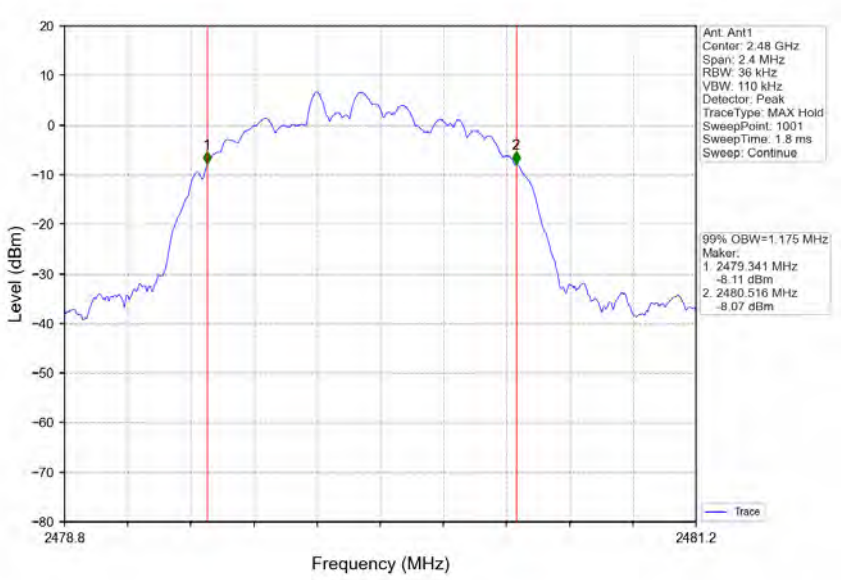
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	1.023	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.283	Pass
		2441	2DH5	1	1.283	Pass
		2480	2DH5	1	1.285	Pass
8DPSK	SISO	2402	3DH5	1	1.309	Pass
		2441	3DH5	1	1.309	Pass
		2480	3DH5	1	1.308	Pass

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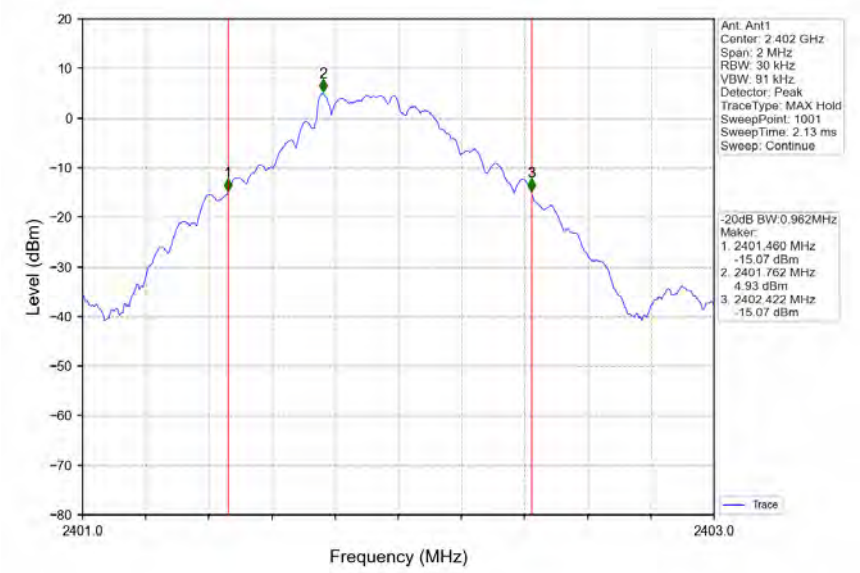
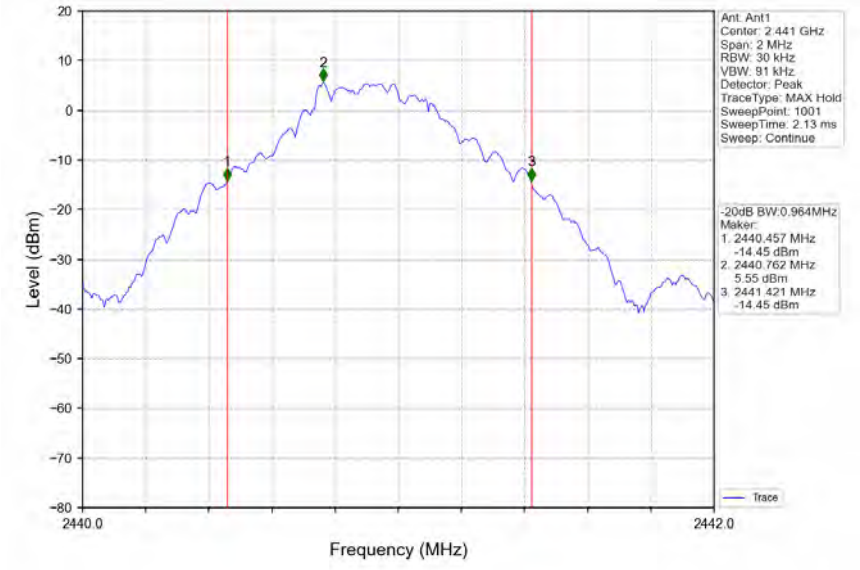
1.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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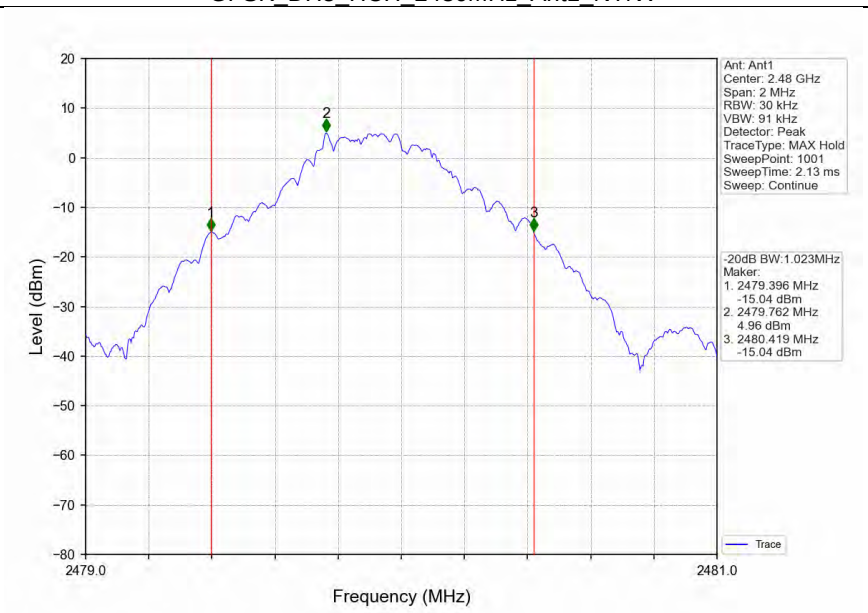
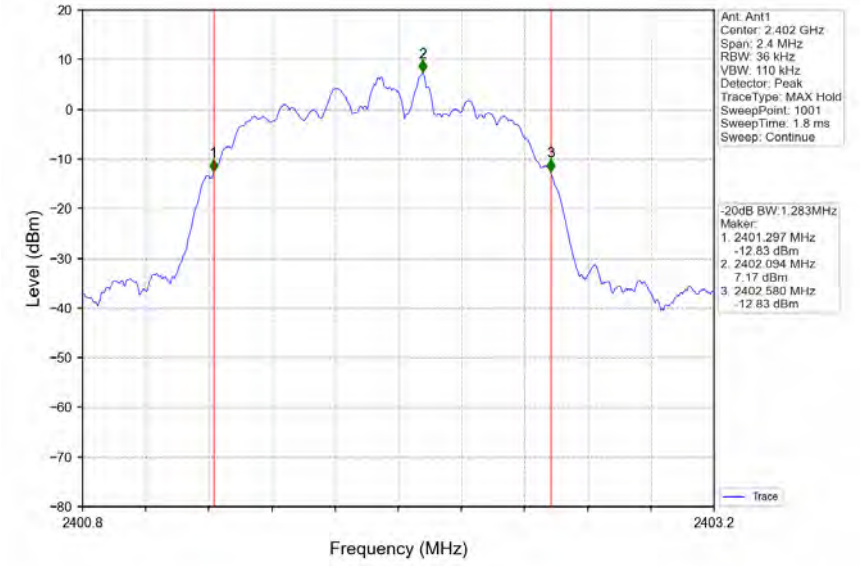
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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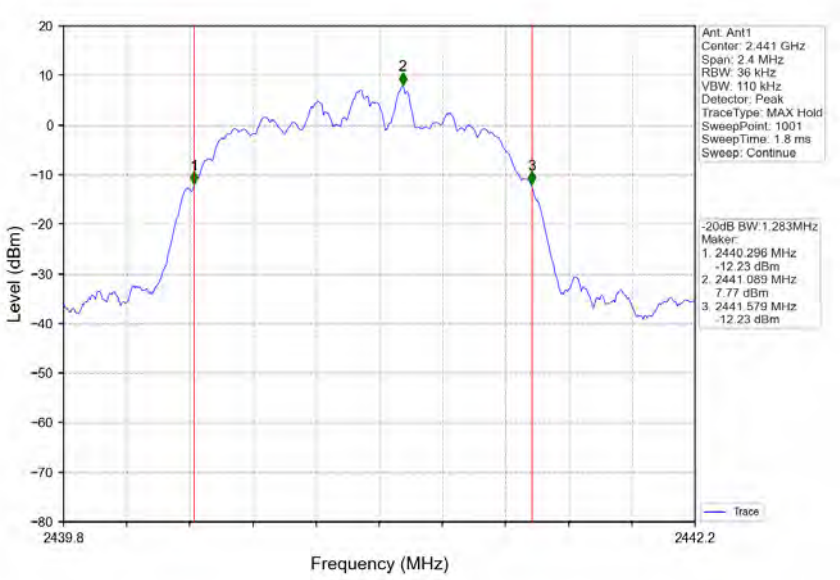
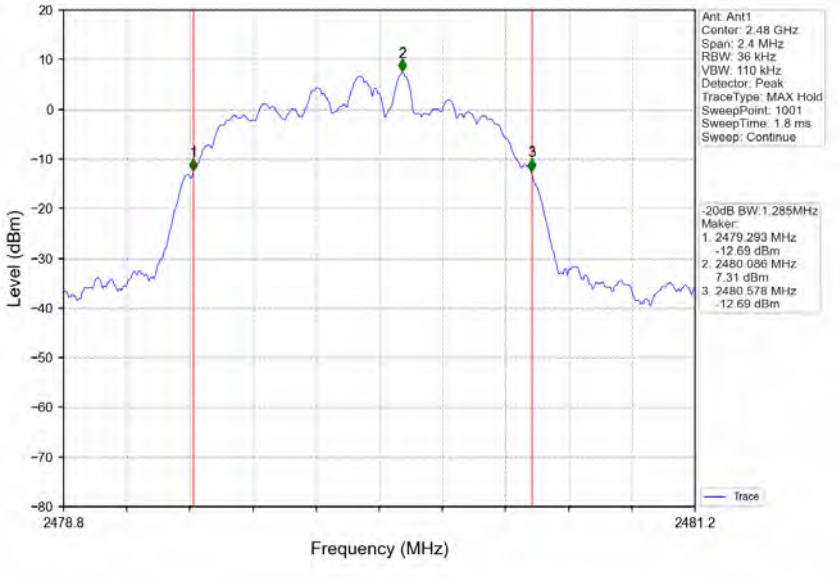
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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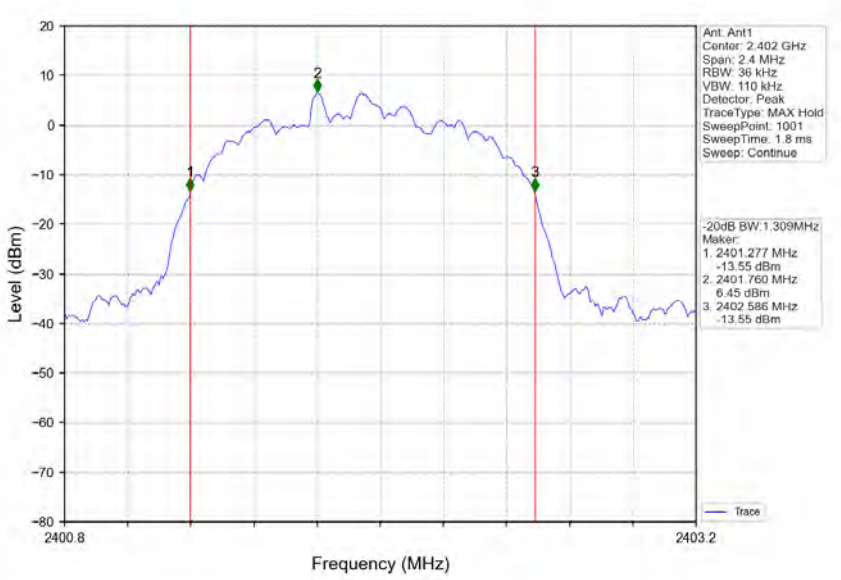
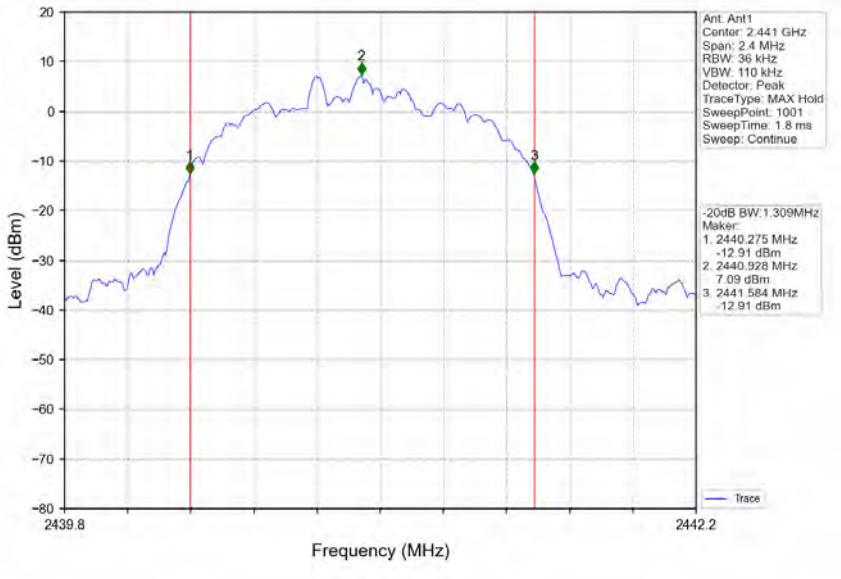
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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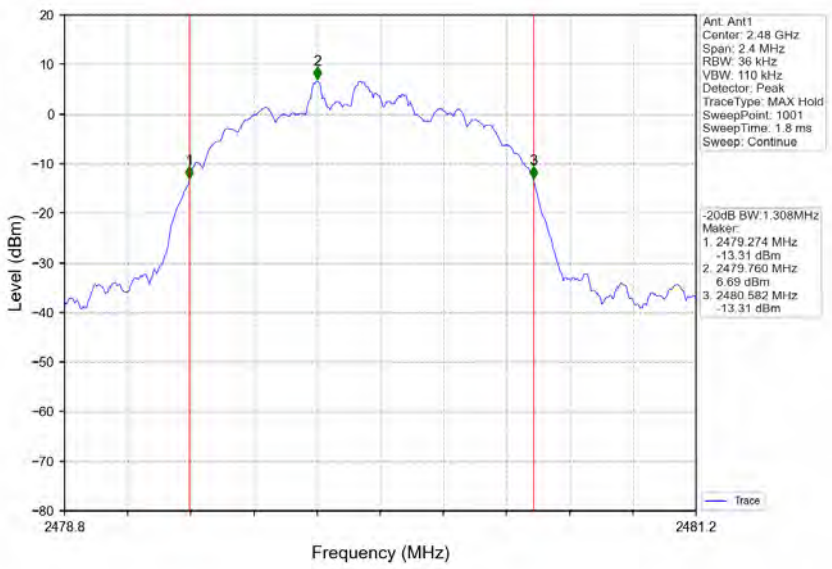
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	7.22	<=20.97	Pass
		2441	DH5	7.96	<=20.97	Pass
		2480	DH5	7.53	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	9.61	<=20.97	Pass
		2441	2DH5	10.22	<=20.97	Pass
		2480	2DH5	9.76	<=20.97	Pass
8DPSK	SISO	2402	3DH5	10.01	<=20.97	Pass
		2441	3DH5	10.67	<=20.97	Pass
		2480	3DH5	10.18	<=20.97	Pass
Note1: Antenna Gain: Ant1: 1.65dBi;						

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2.1.2 Test Graph

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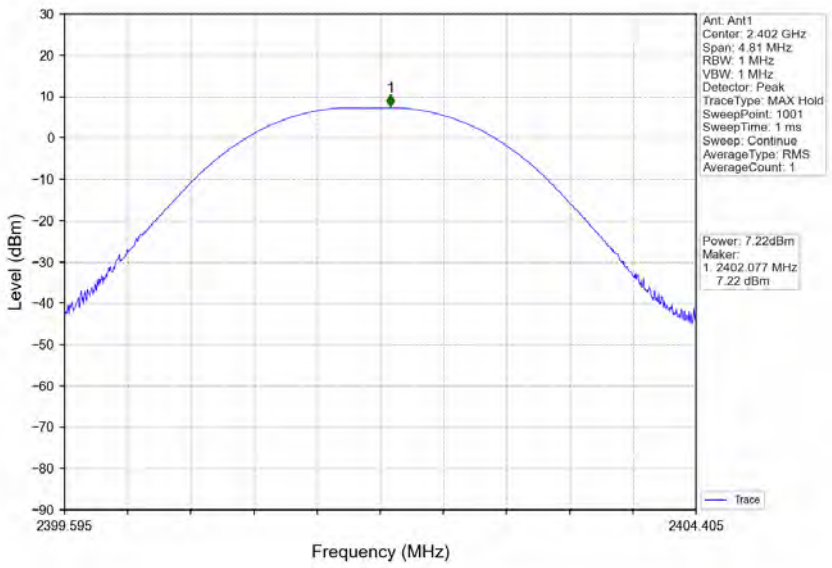
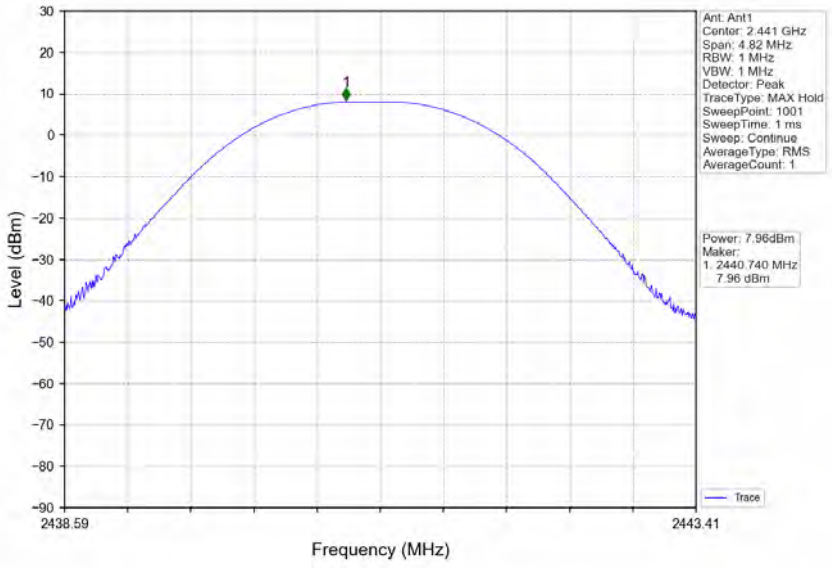


GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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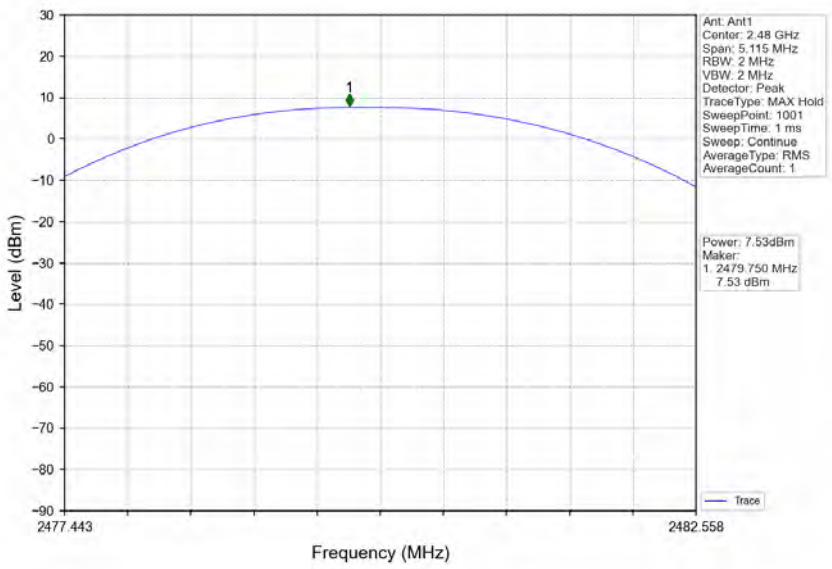
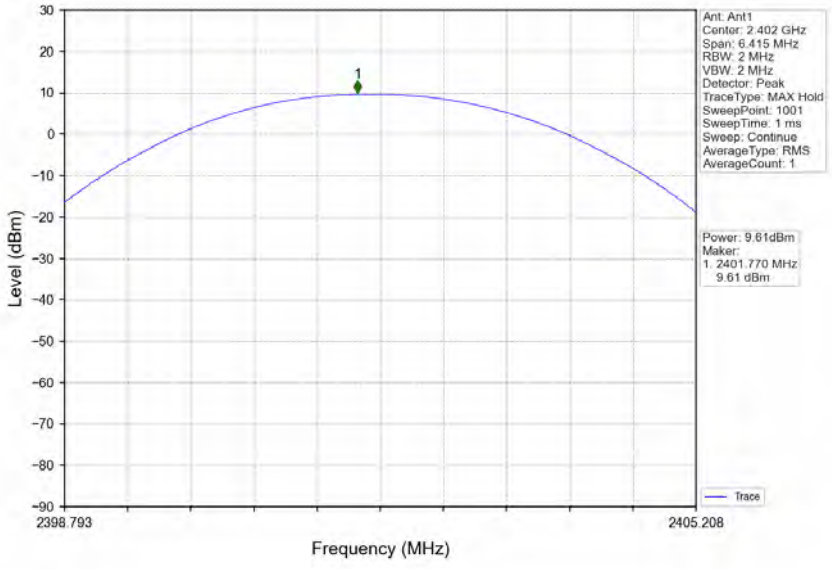
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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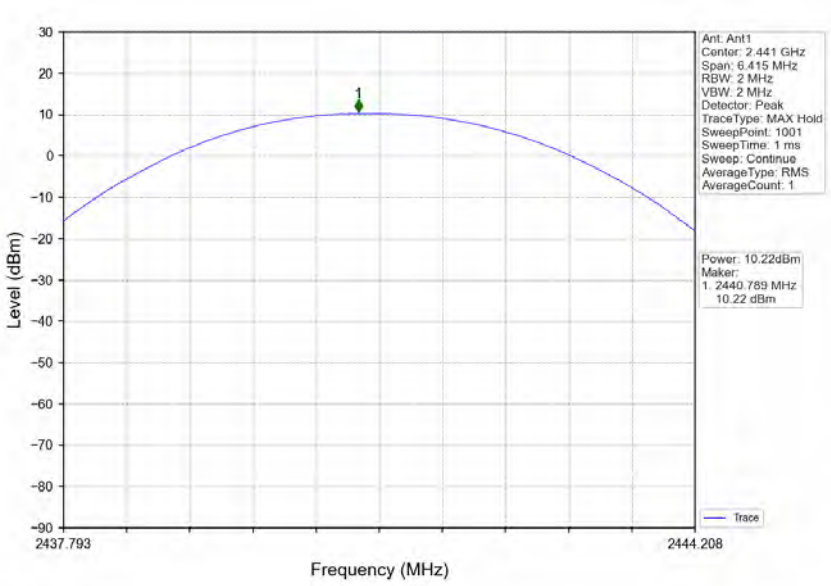
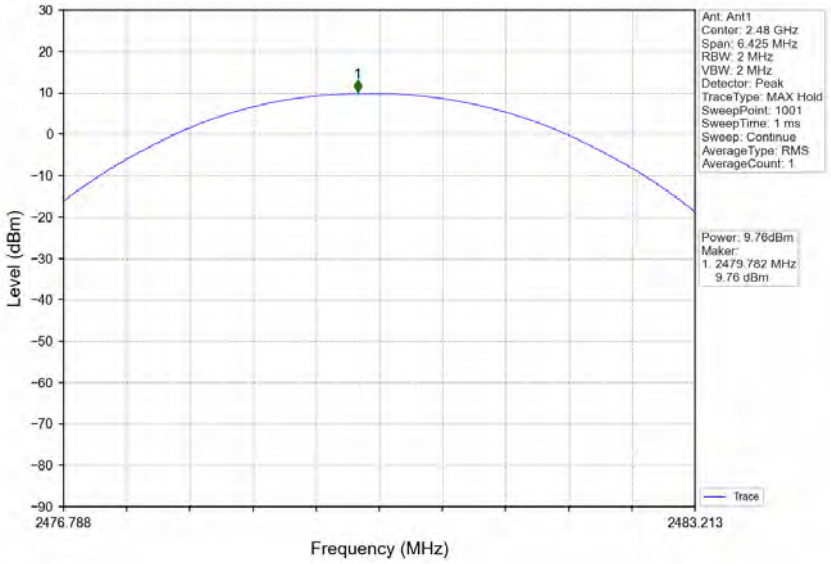
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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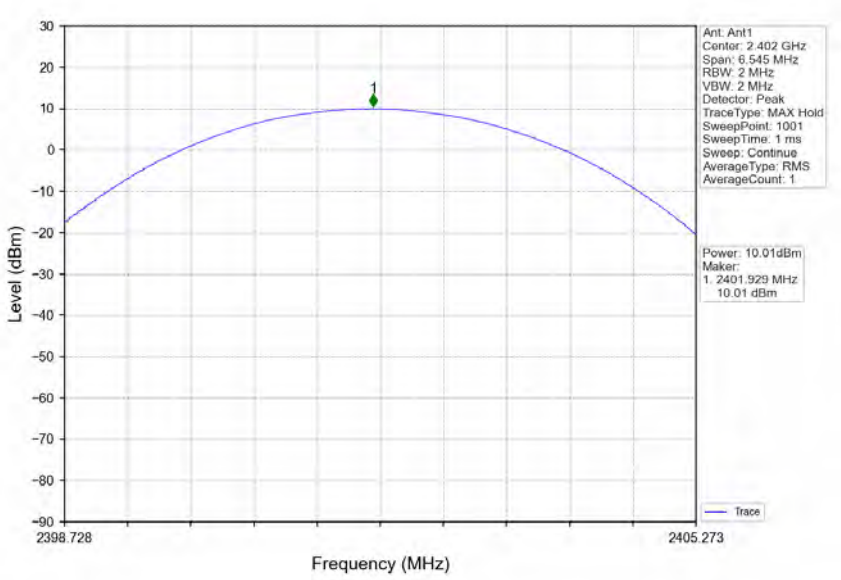
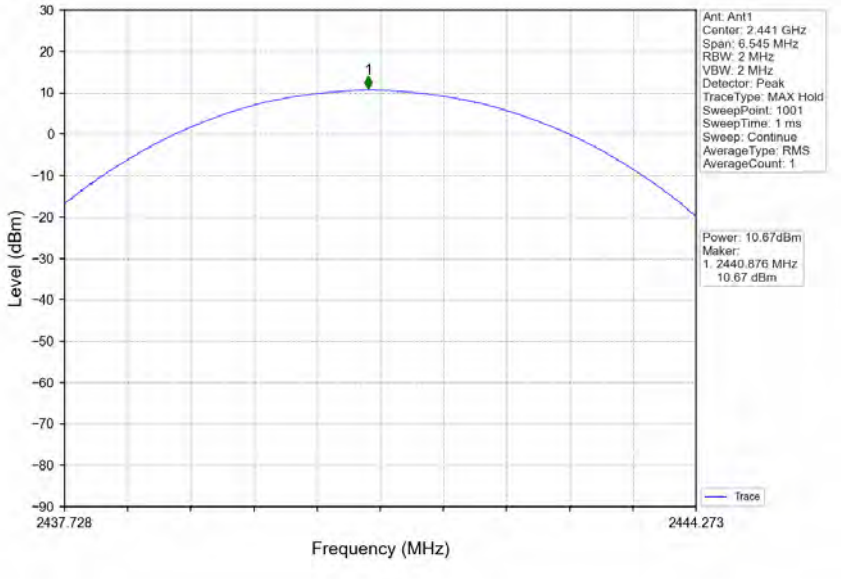
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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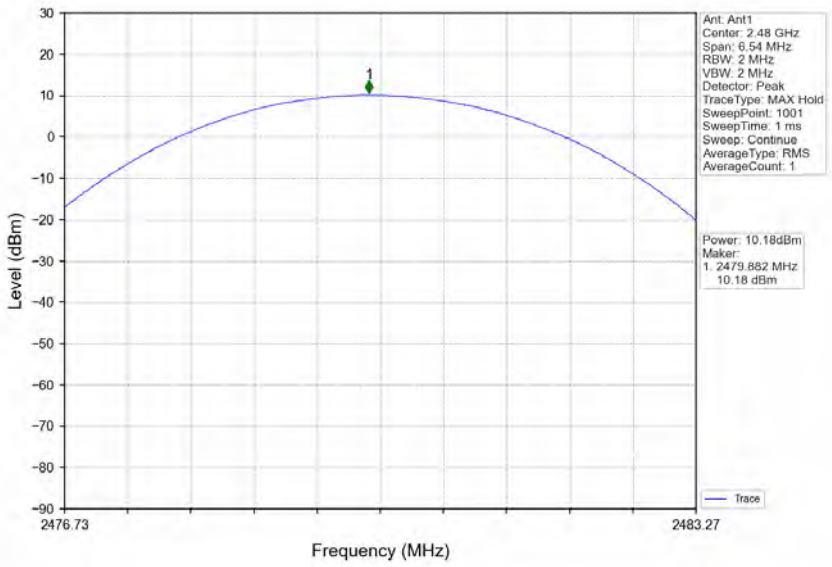

3. Carrier Frequency Separation

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	1.010	1.023	>=0.682	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.285	>=0.857	Pass
8DPSK	SISO	HOPP	3DH5	1.018	1.309	>=0.873	Pass

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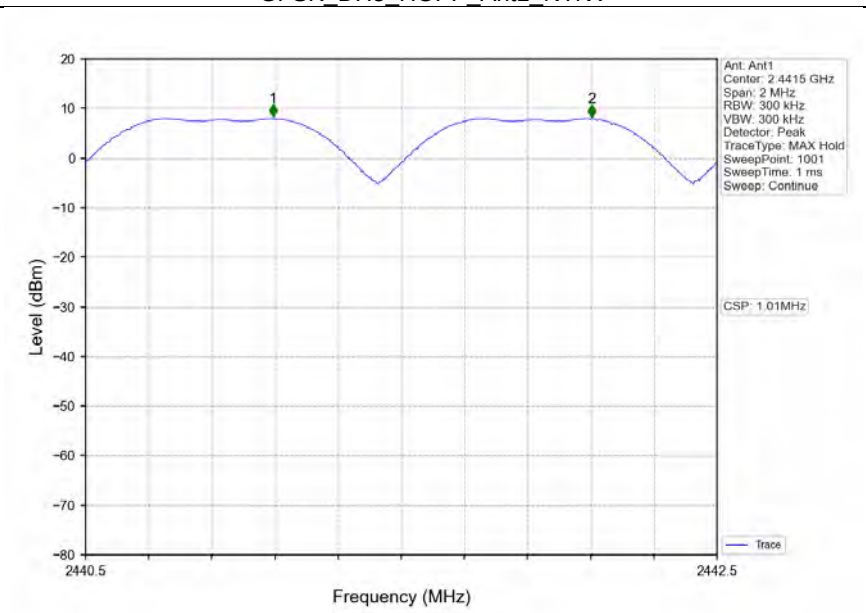
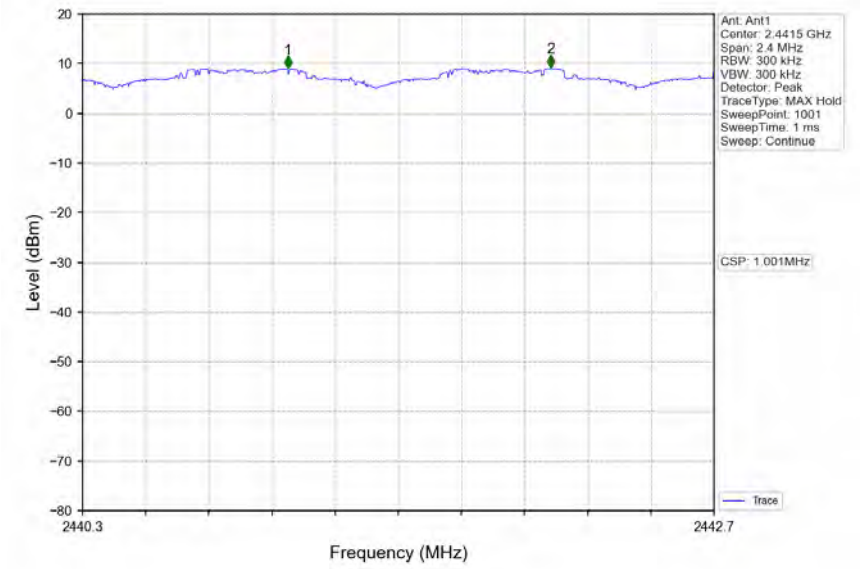
3.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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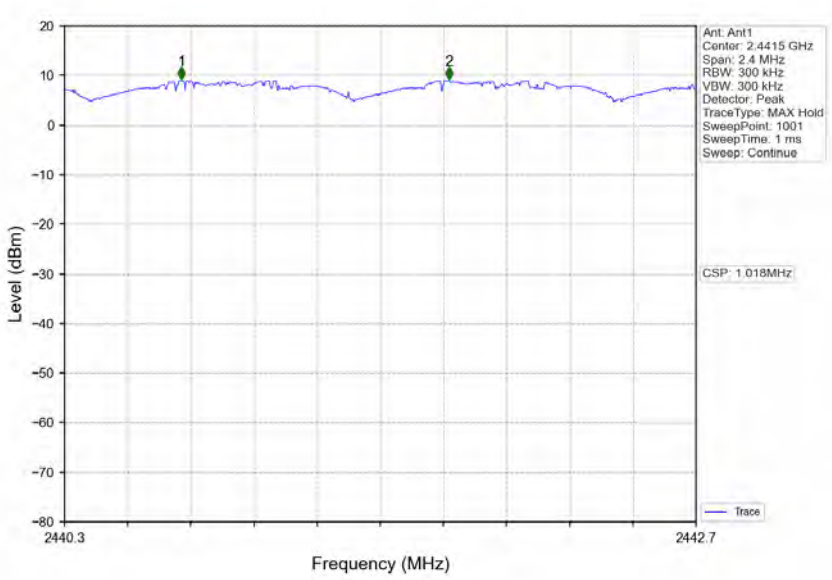
8DPSK_3DH5_HOPP_Ant1_NTNV


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

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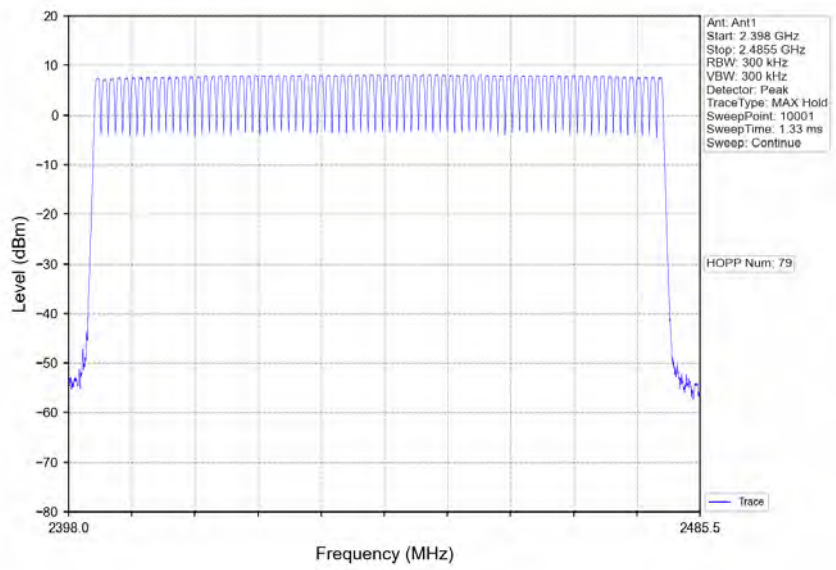
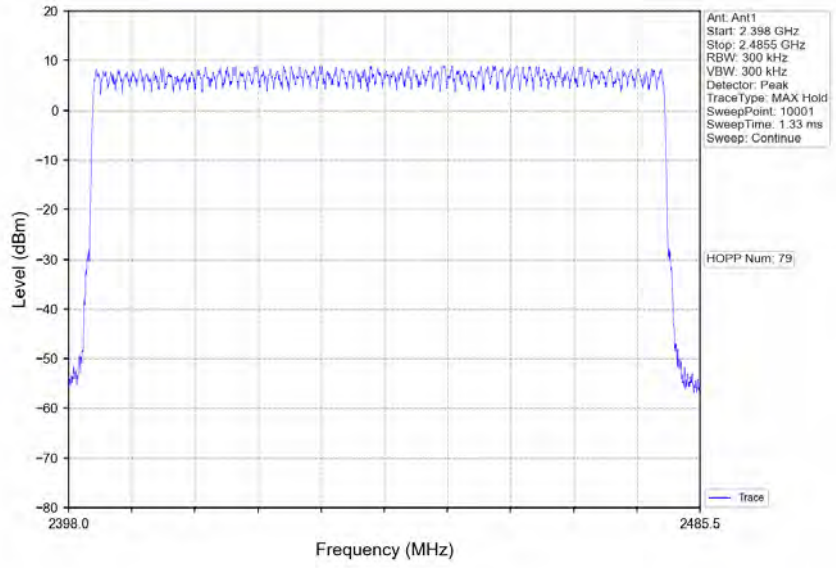
4.1.2 Test Graph

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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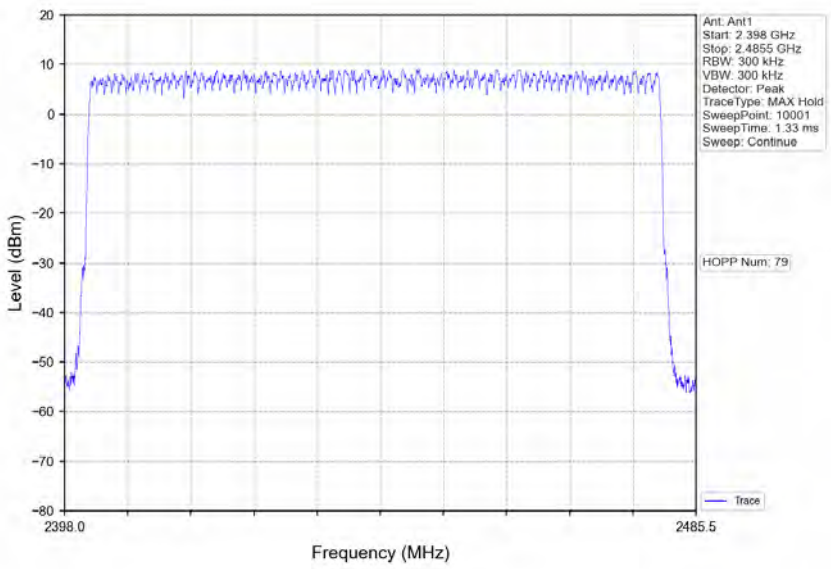
8DPSK_3DH5_HOPP_Ant1_NTNV


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	319	122.496	<=400	Pass
			DH3	1.640	31.600	166	272.240	<=400	Pass
			DH5	2.888	31.600	100	288.800	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	319	125.686	<=400	Pass
			2DH3	1.646	31.600	154	253.484	<=400	Pass
			2DH5	2.894	31.600	114	329.916	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.394	31.600	321	126.474	<=400	Pass
			3DH3	1.644	31.600	160	263.040	<=400	Pass
			3DH5	1.644	31.600	162	266.328	<=400	Pass

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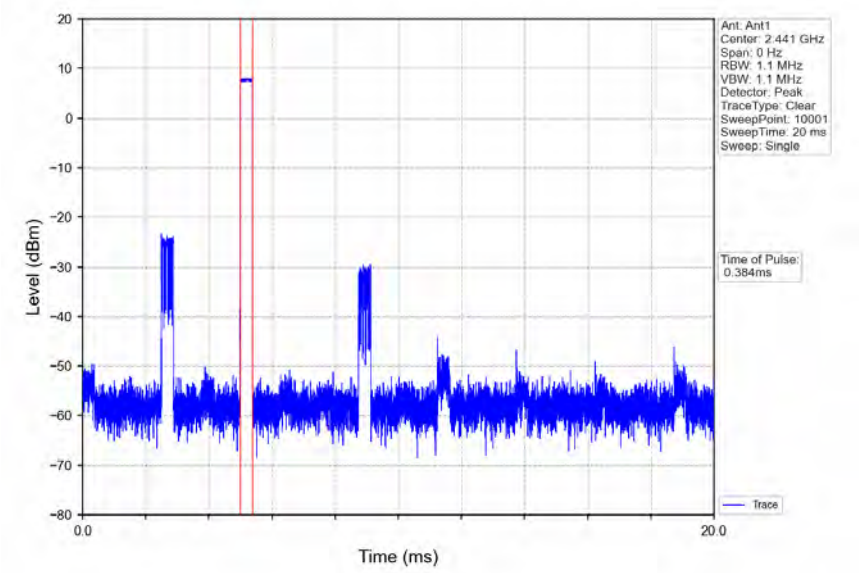
5.1.2 Test Graph

GFSK_DH1_HOPP_Ant1_NTNV



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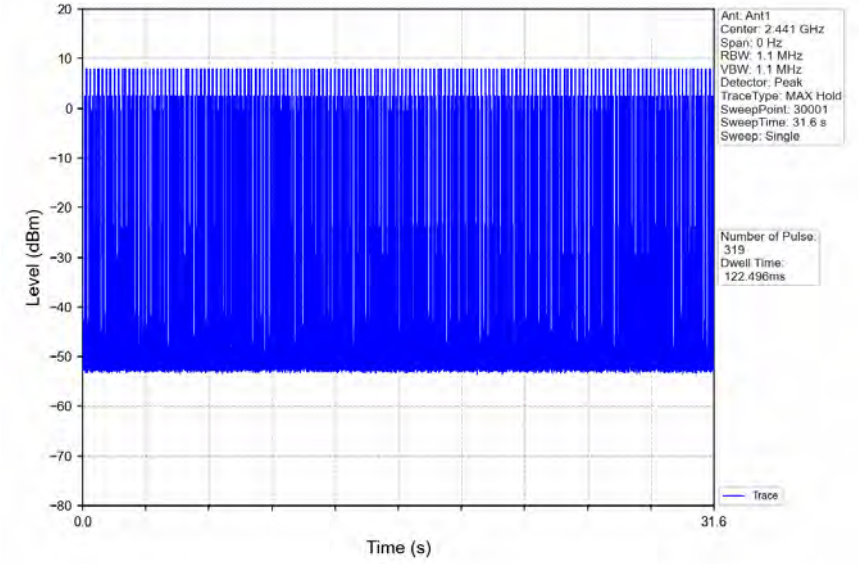

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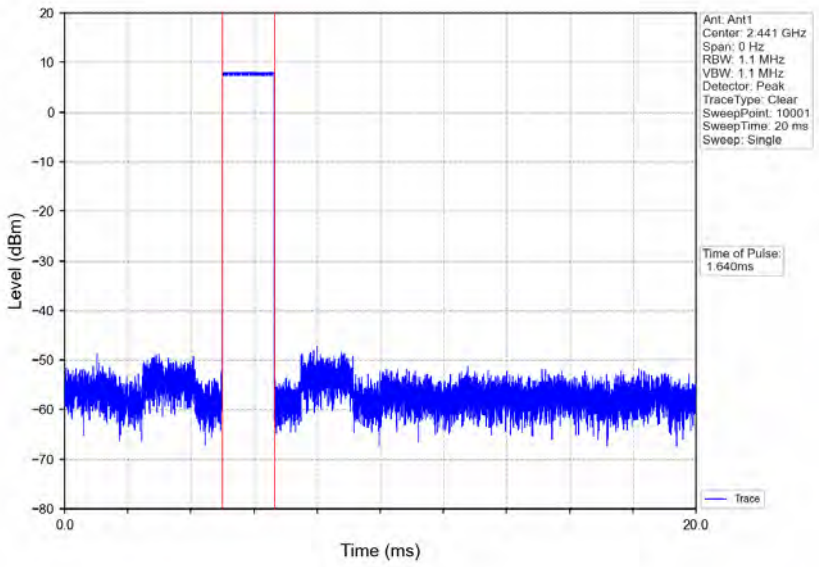
GFSK_DH3_HOPP_Ant1_NTNV



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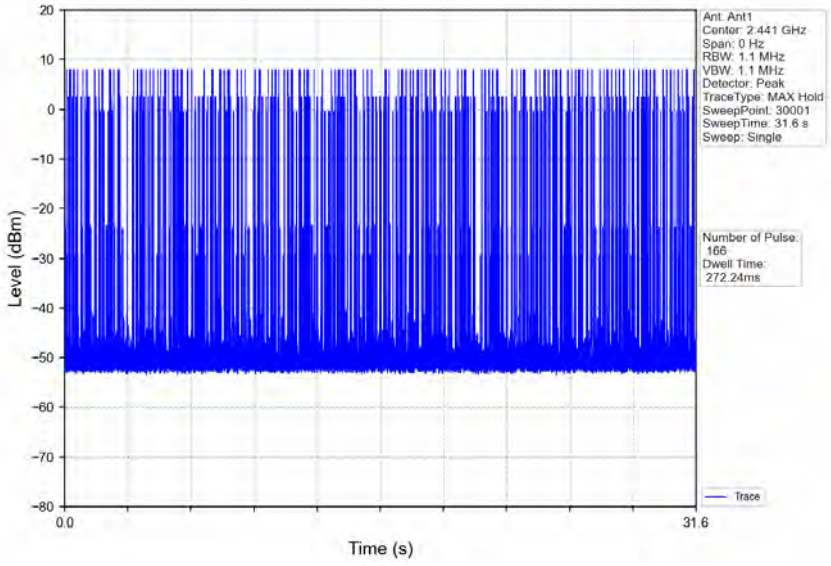

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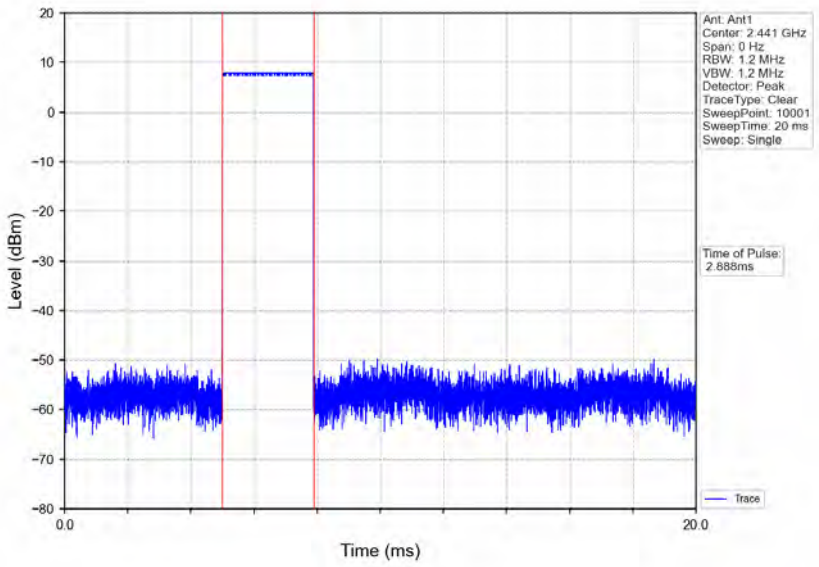

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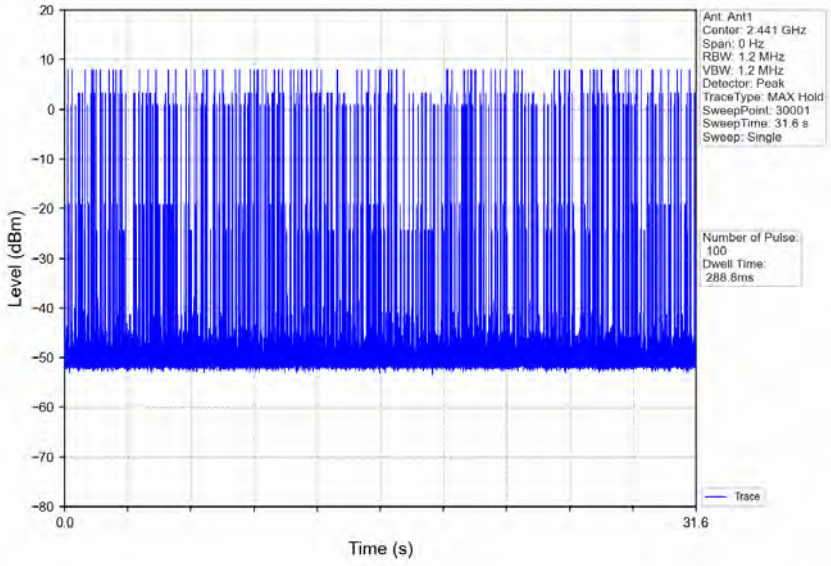

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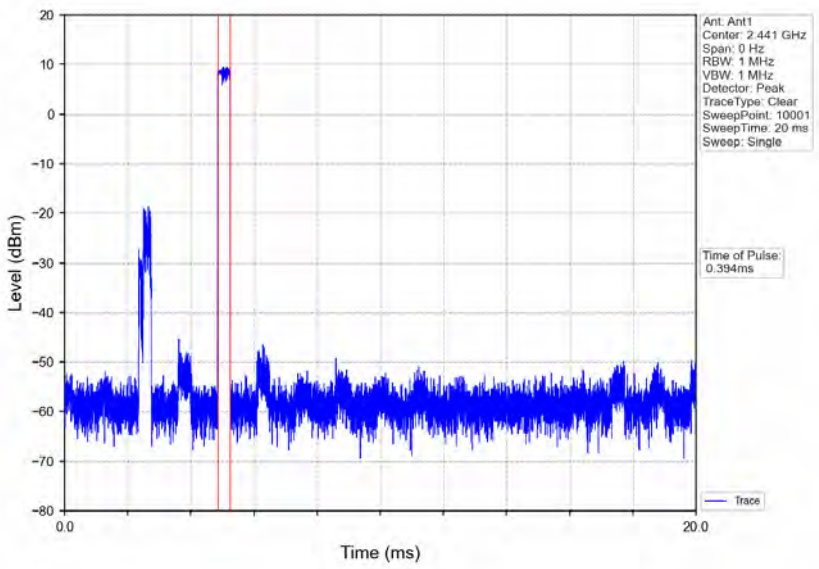
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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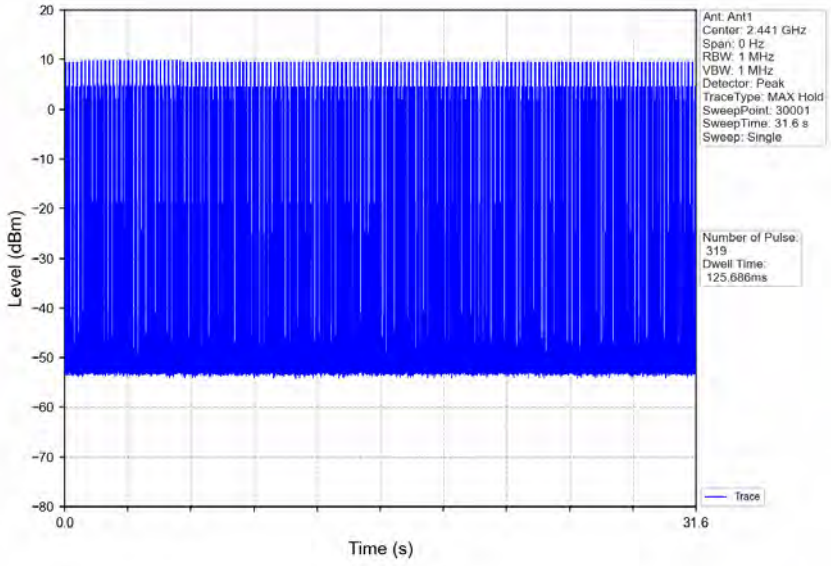

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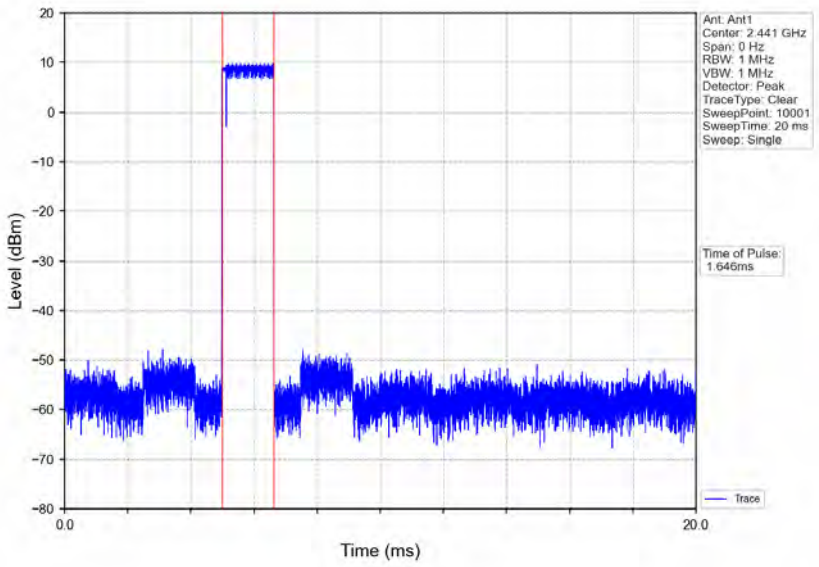

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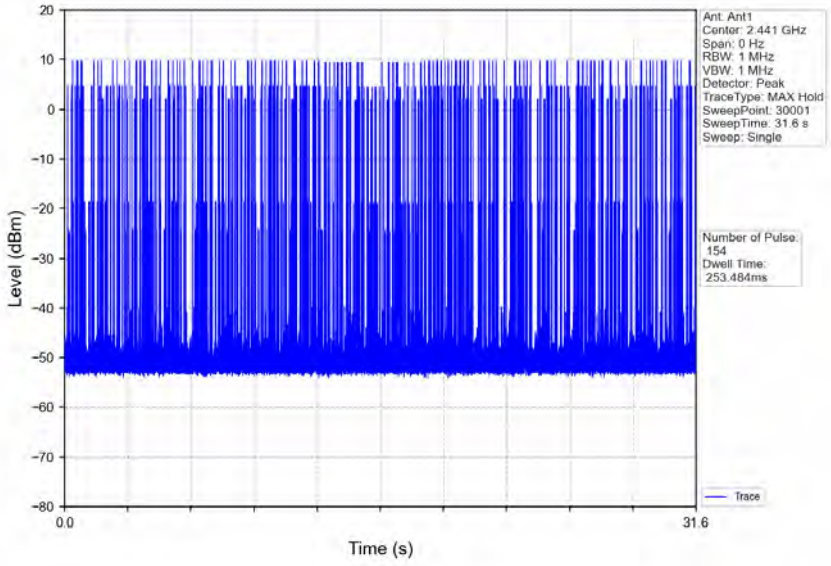

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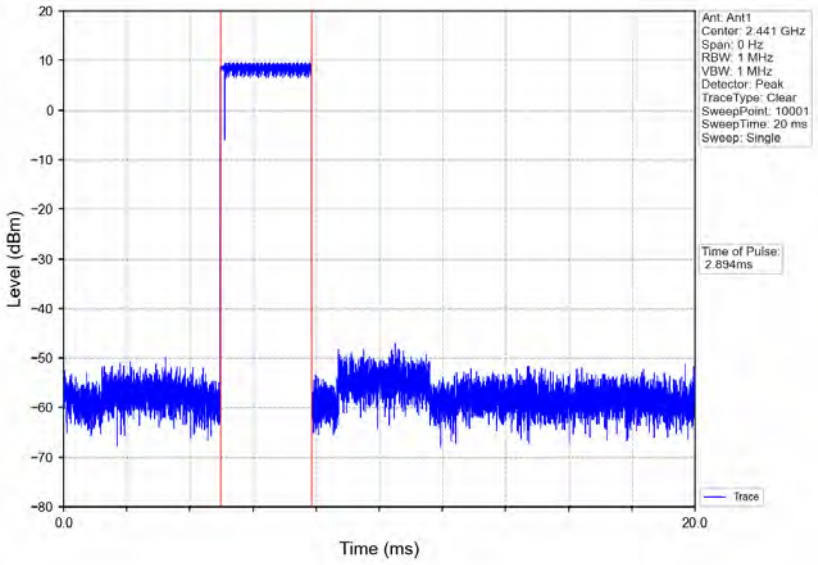
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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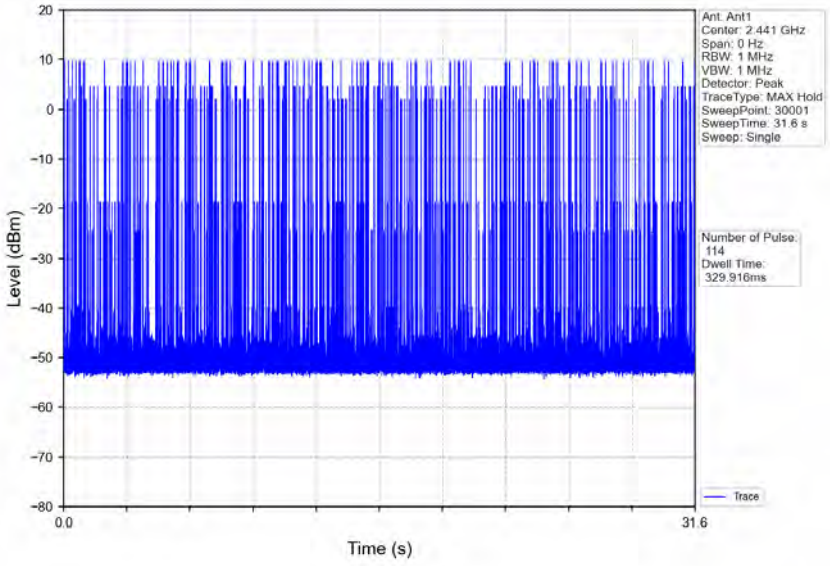

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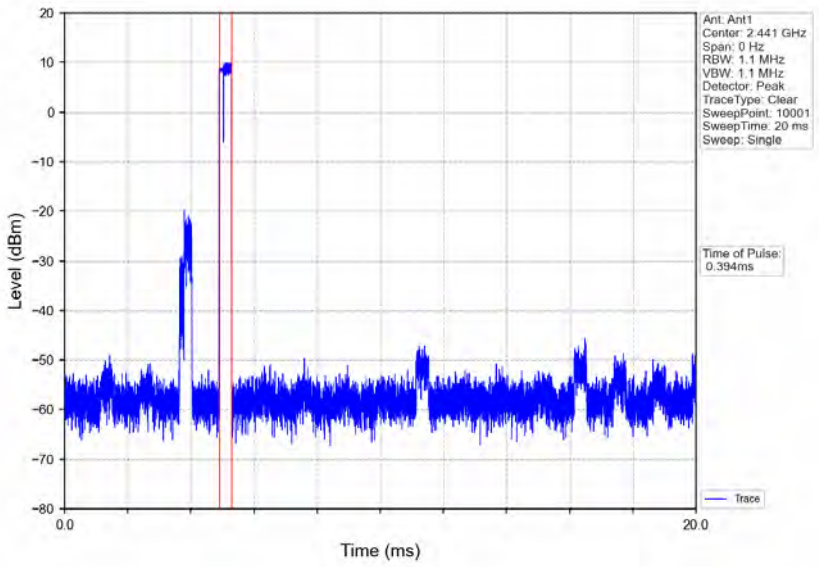

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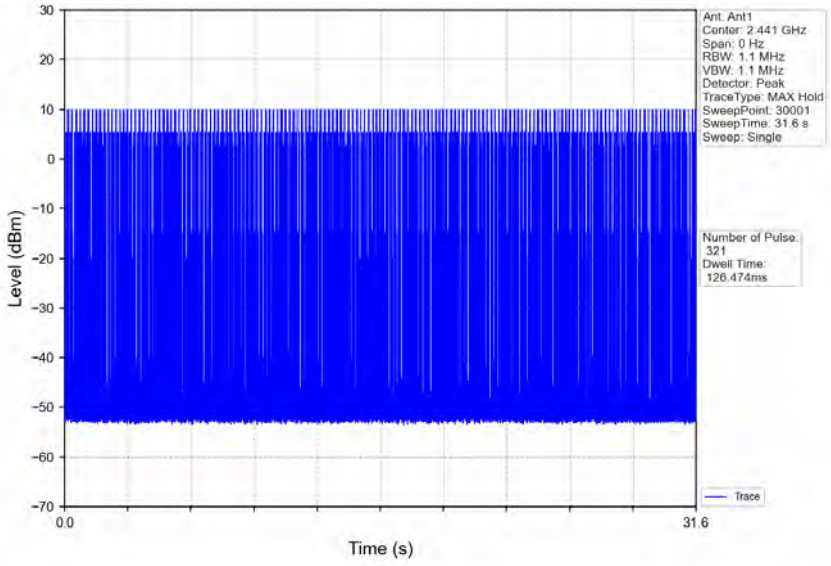

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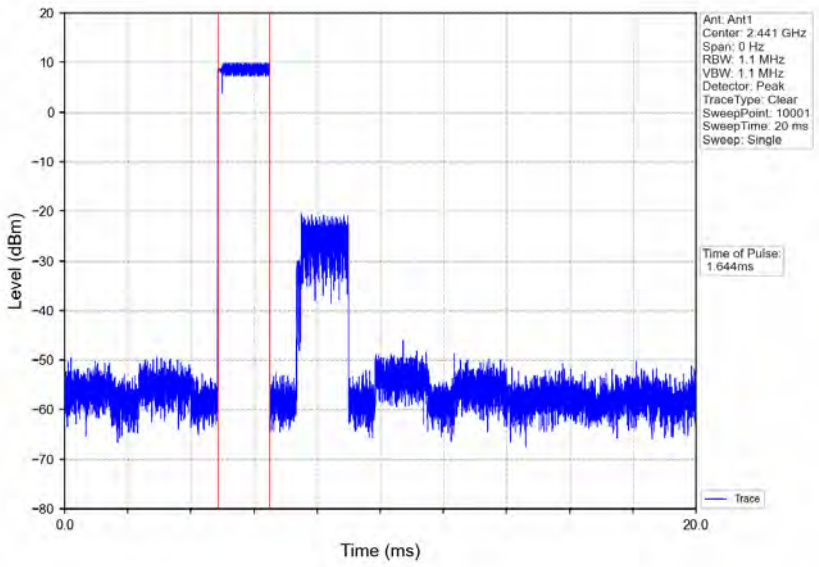
8DPSK_3DH3_HOPP_Ant1_NTNV



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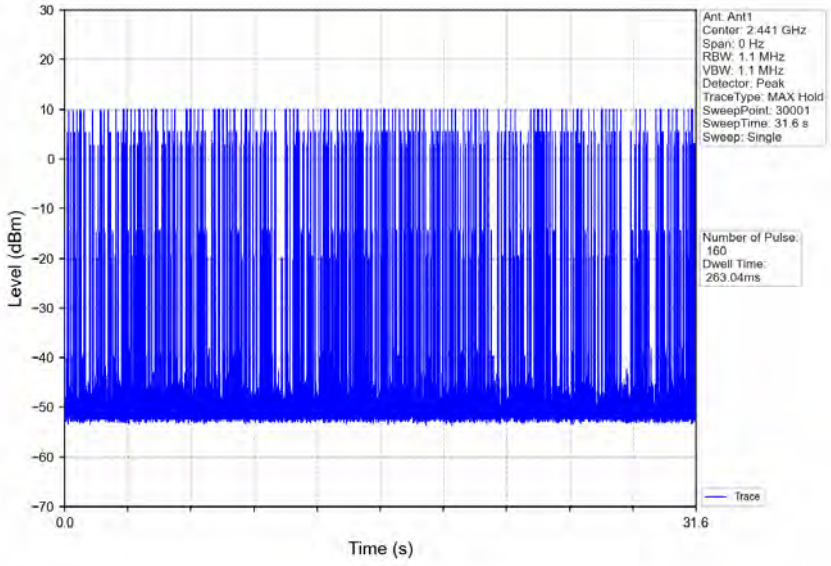

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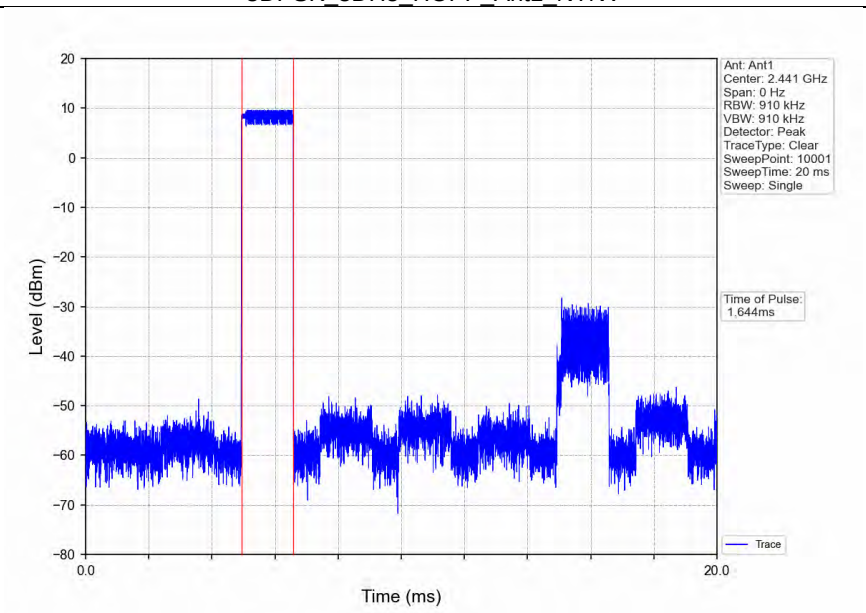
8DPSK_3DH5_HOPP_Ant1_NTNV



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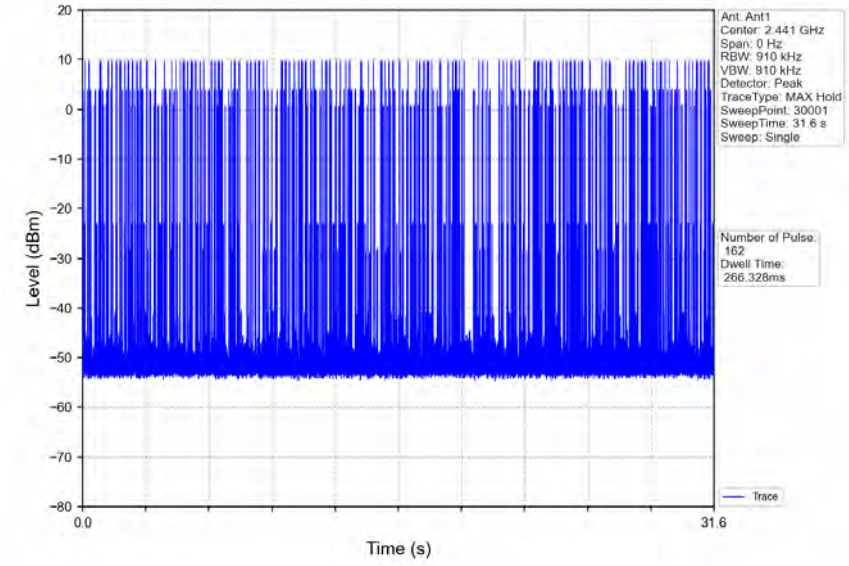

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6. Unwanted Emissions In Non-restricted Frequency Bands

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	7.11
		2441	DH5	1	7.91
		2480	DH5	1	7.49
Pi/4DQPSK	SISO	2402	2DH5	1	8.23
		2441	2DH5	1	8.86
		2480	2DH5	1	8.39
8DPSK	SISO	2402	3DH5	1	8.03
		2441	3DH5	1	8.79
		2480	3DH5	1	8.37
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.					

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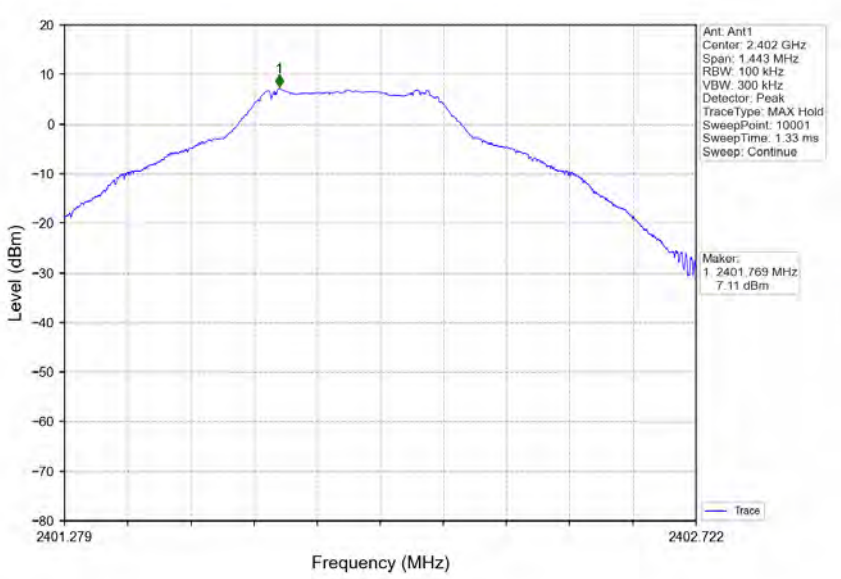
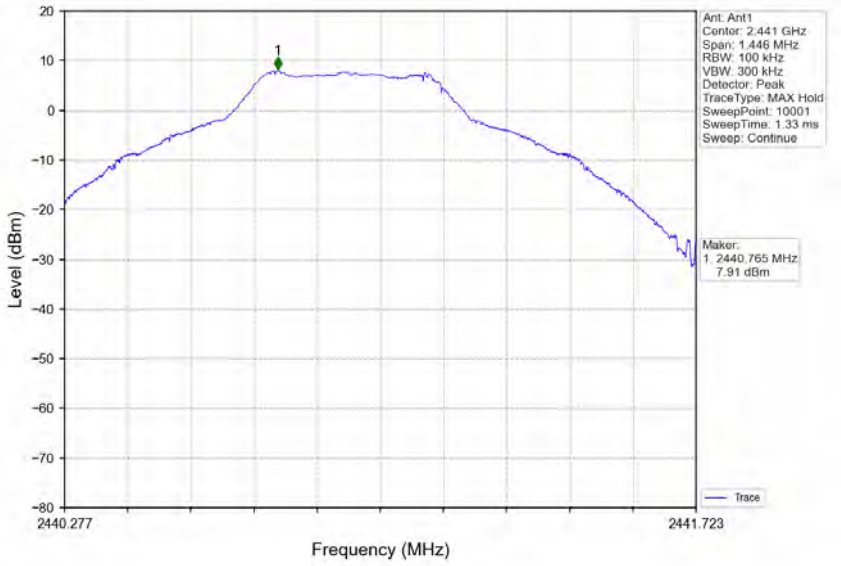
6.1.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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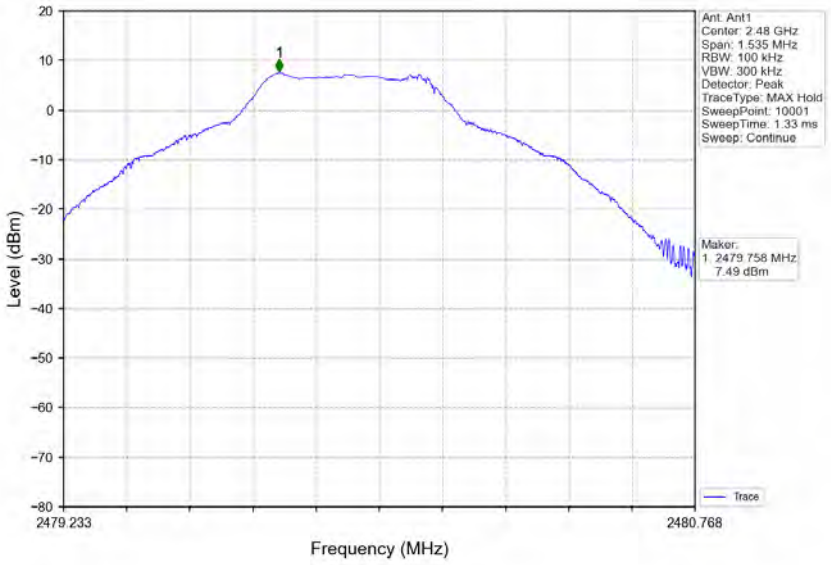
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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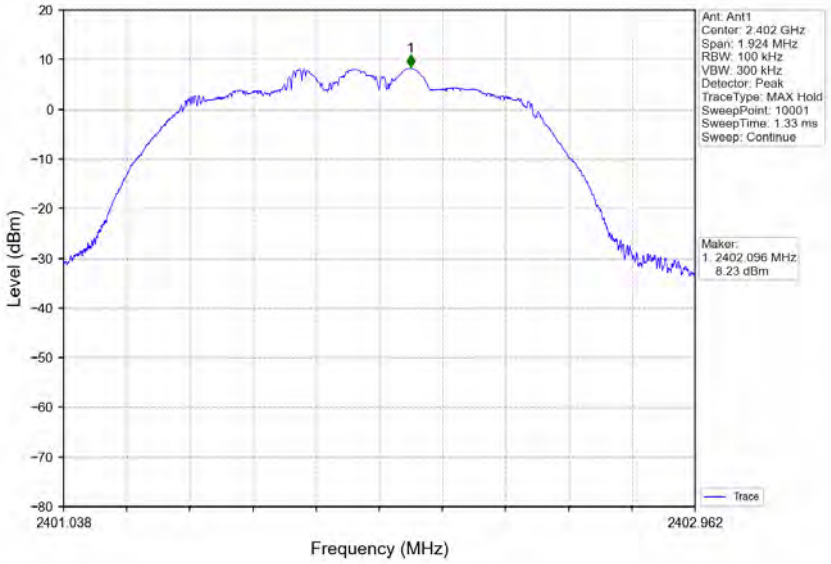

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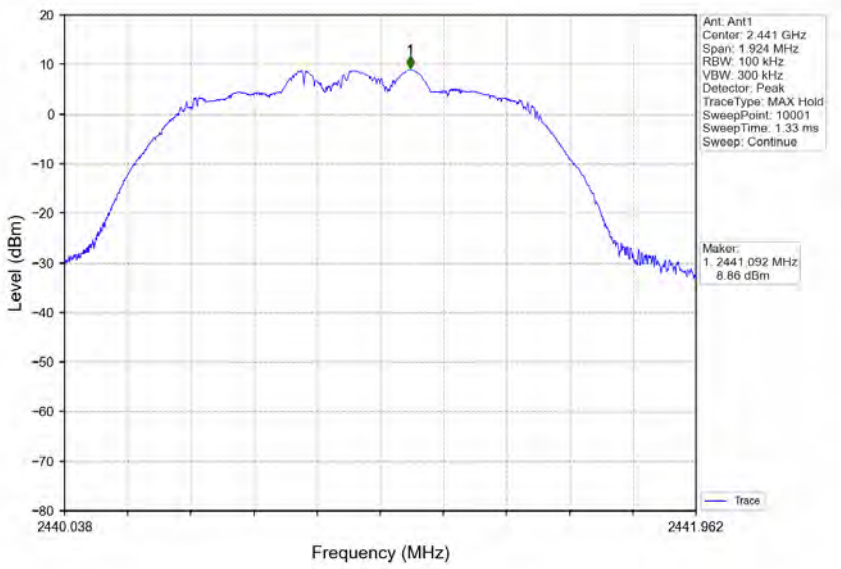
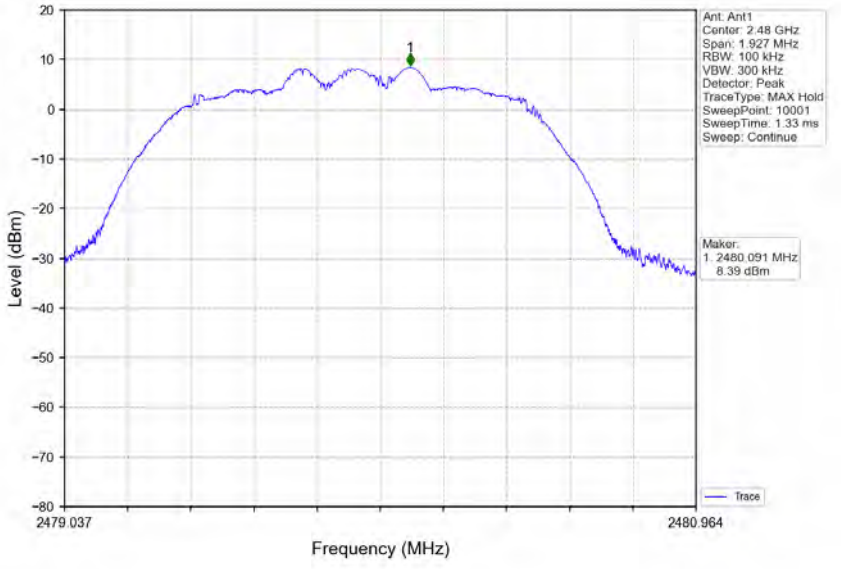
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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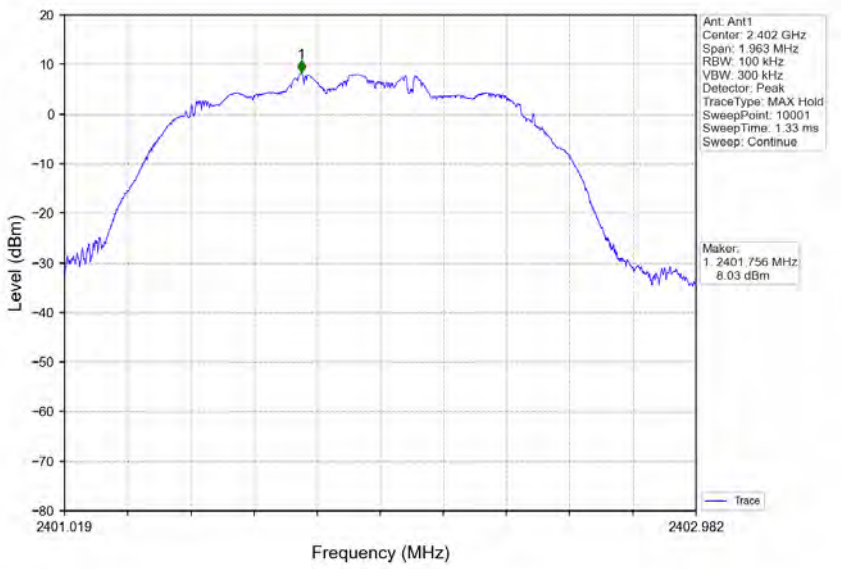
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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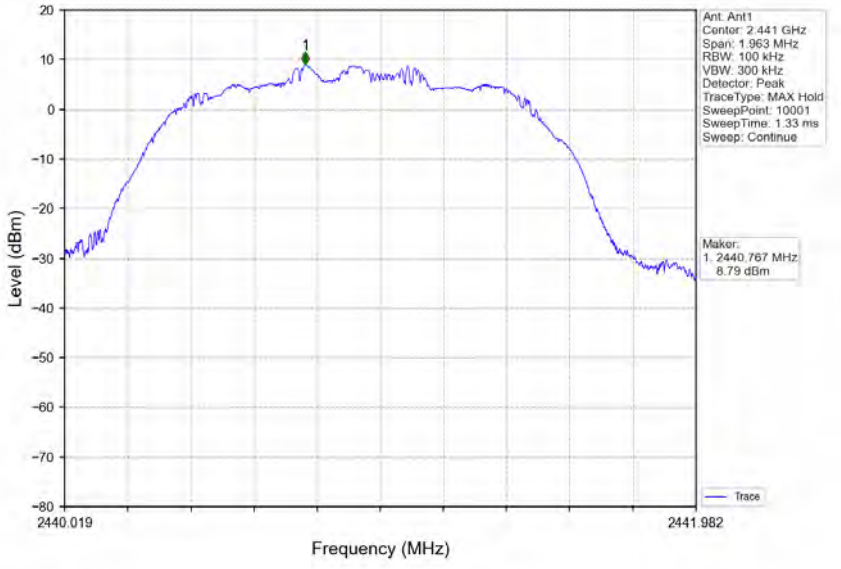

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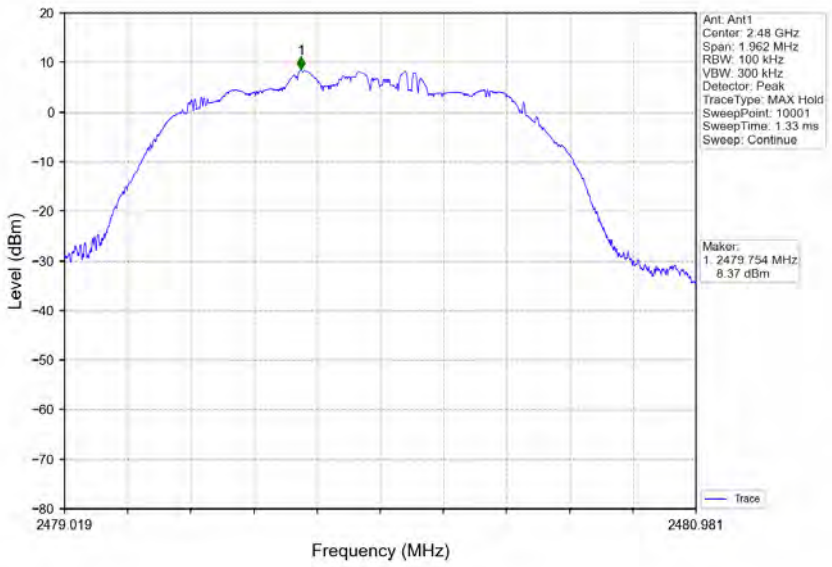
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV


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	7.91	-12.09	Pass
		2441	DH5	1	7.91	-12.09	Pass
		2480	DH5	1	7.91	-12.09	Pass
		HOPP	DH5	1	7.91	-12.09	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.86	-11.14	Pass
		2441	2DH5	1	8.86	-11.14	Pass
		2480	2DH5	1	8.86	-11.14	Pass
		HOPP	2DH5	1	8.86	-11.14	Pass
8DPSK	SISO	2402	3DH5	1	8.79	-11.21	Pass
		2441	3DH5	1	8.79	-11.21	Pass
		2480	3DH5	1	8.79	-11.21	Pass
		HOPP	3DH5	1	8.79	-11.21	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.							

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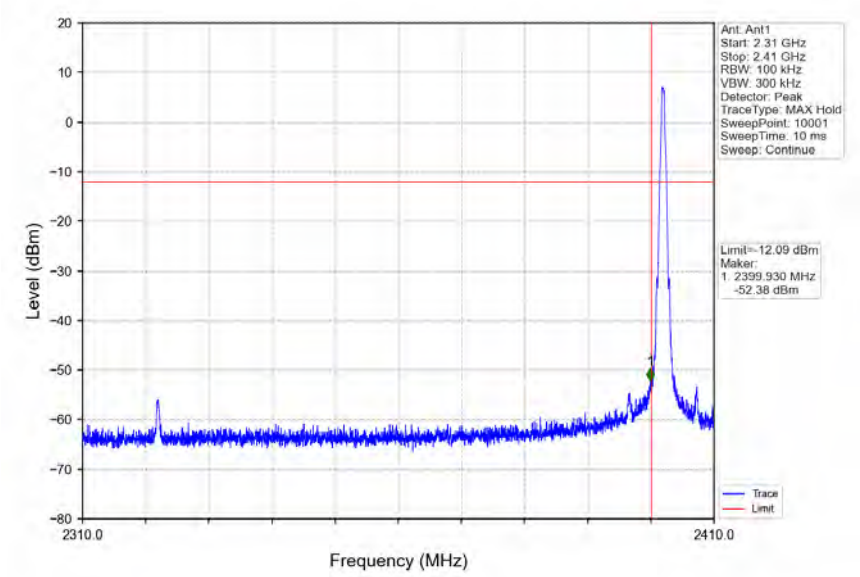
6.2.2 Test Graph

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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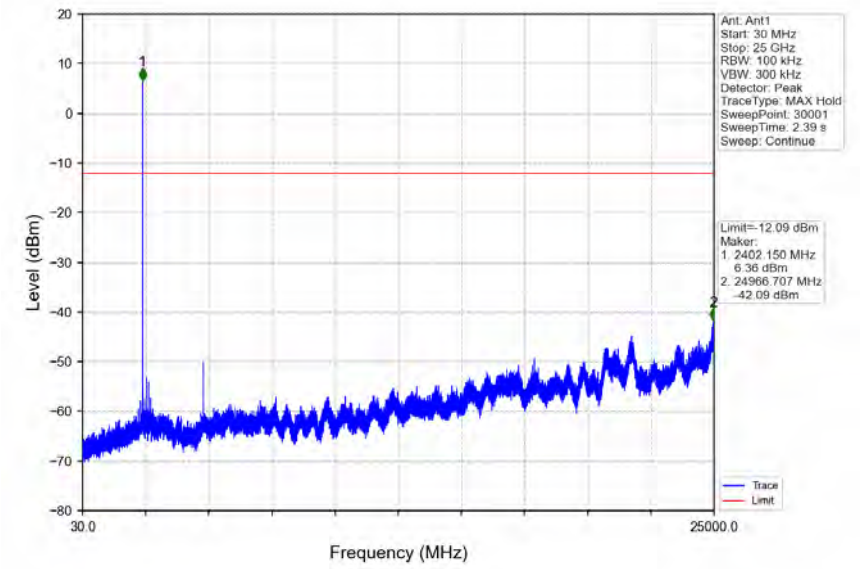

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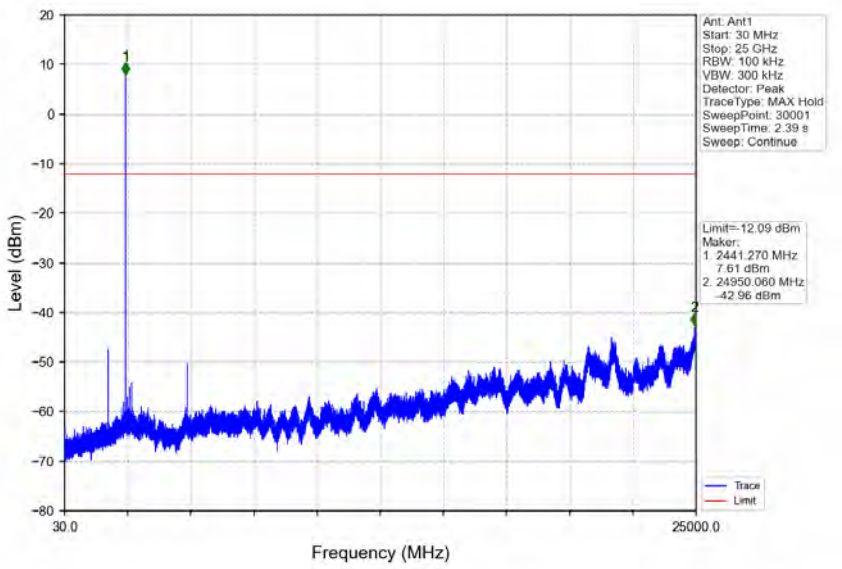
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



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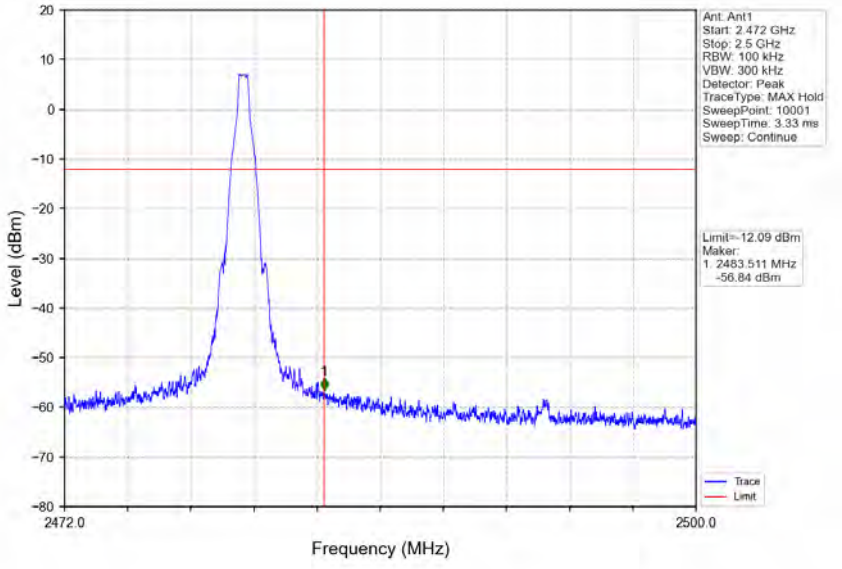

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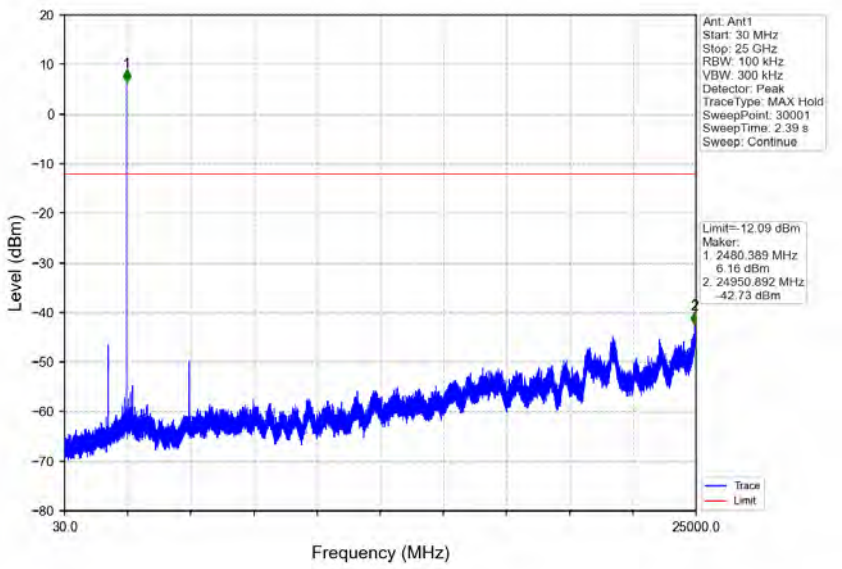
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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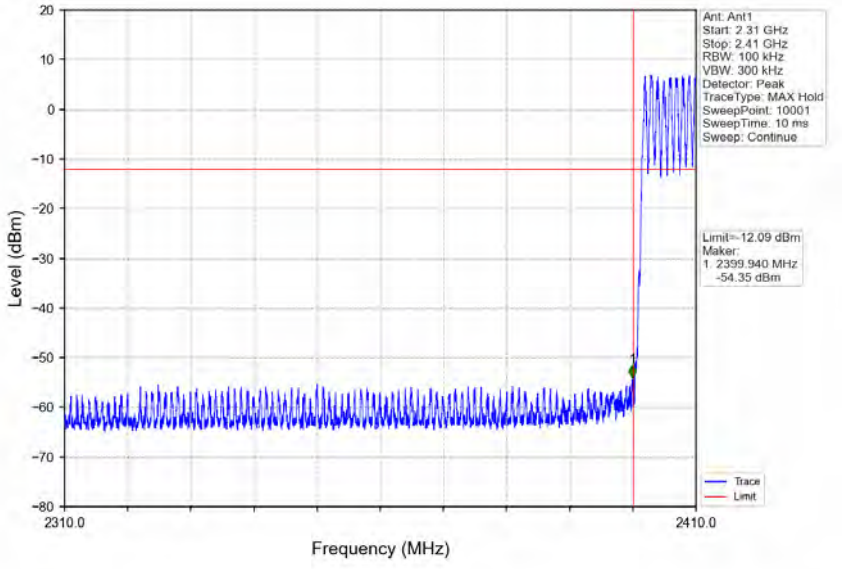

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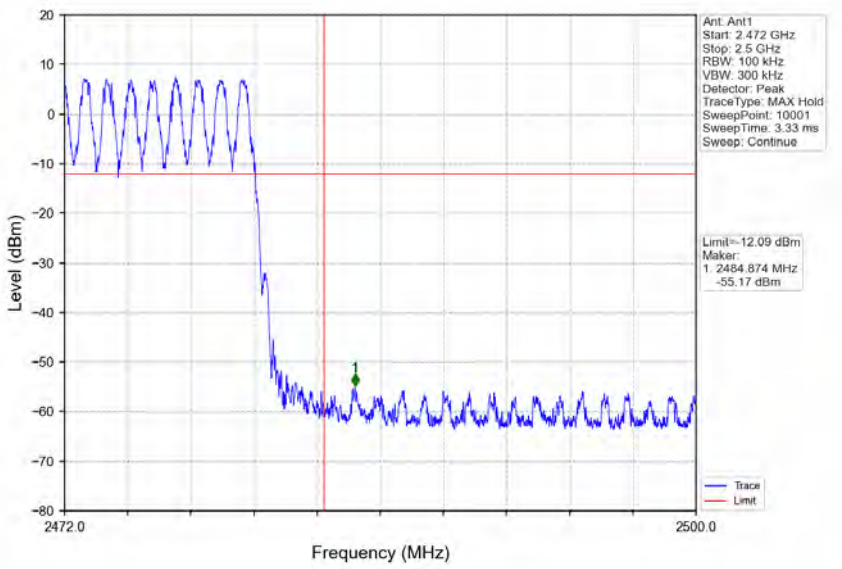
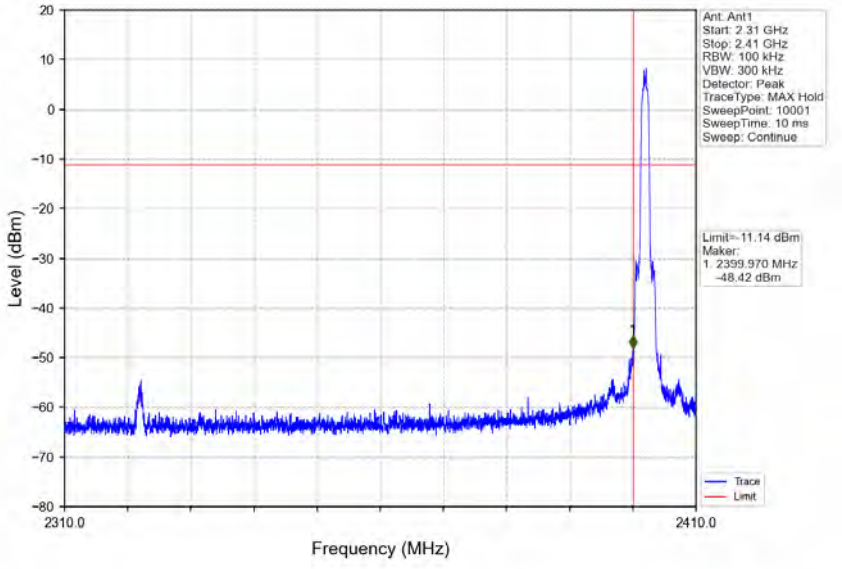


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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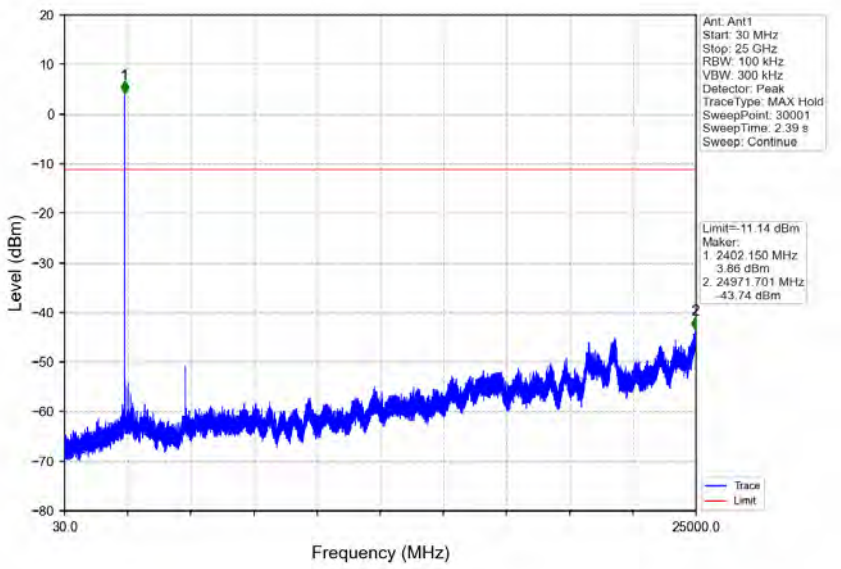

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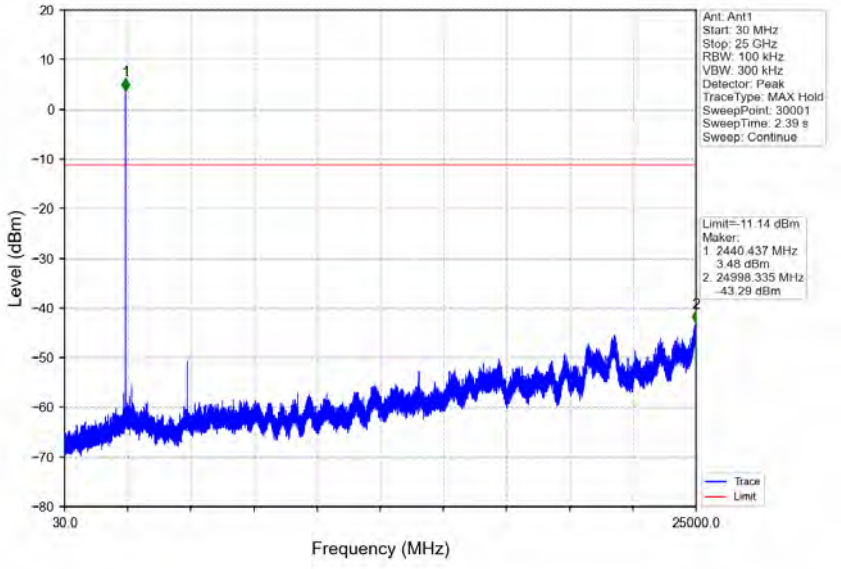

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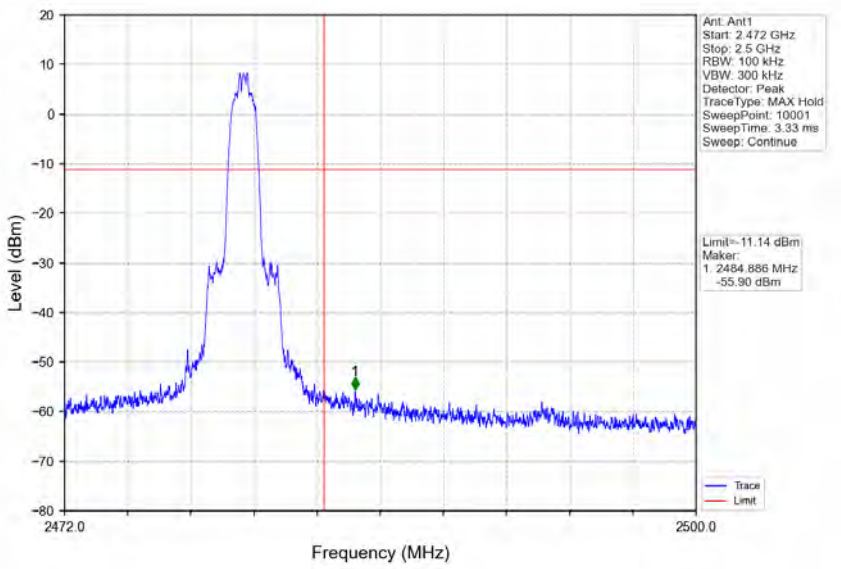
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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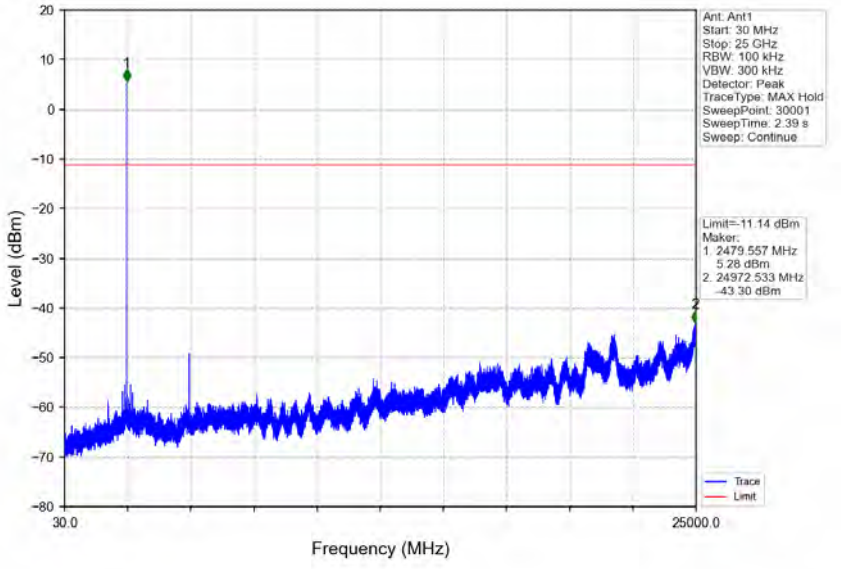

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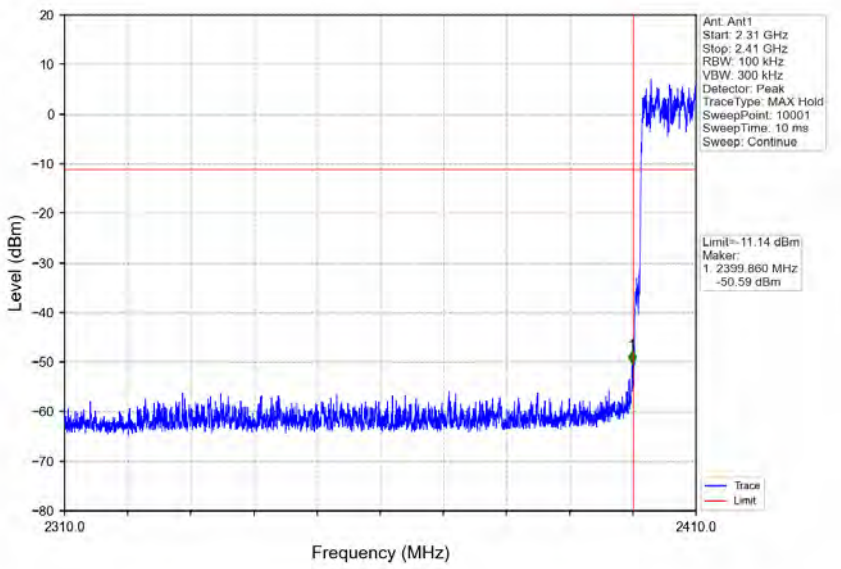

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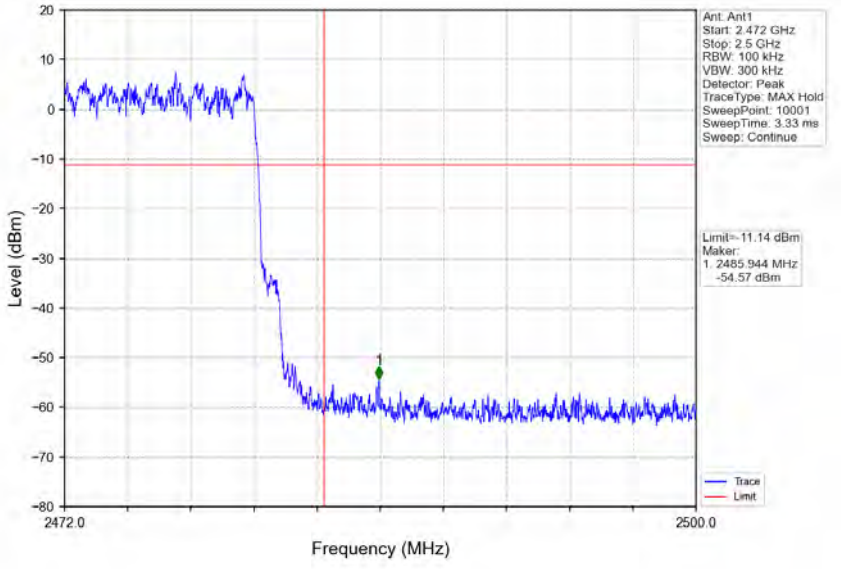

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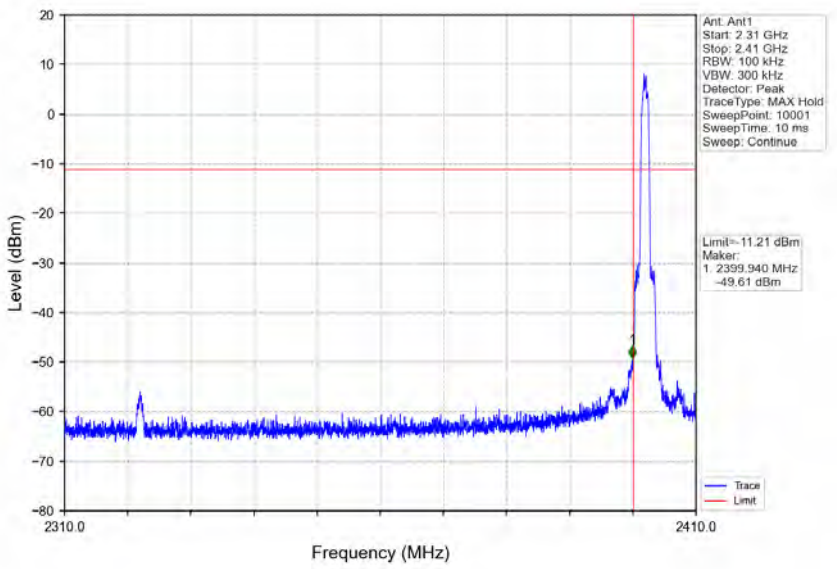
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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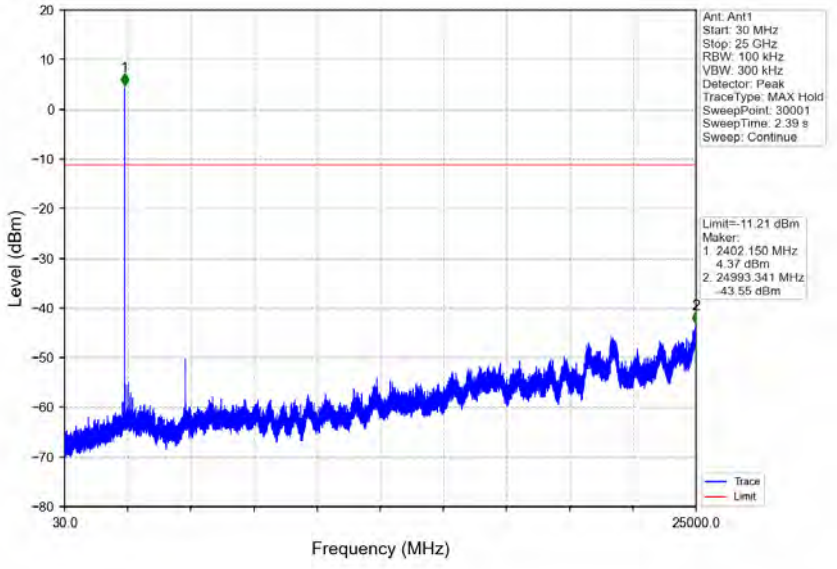

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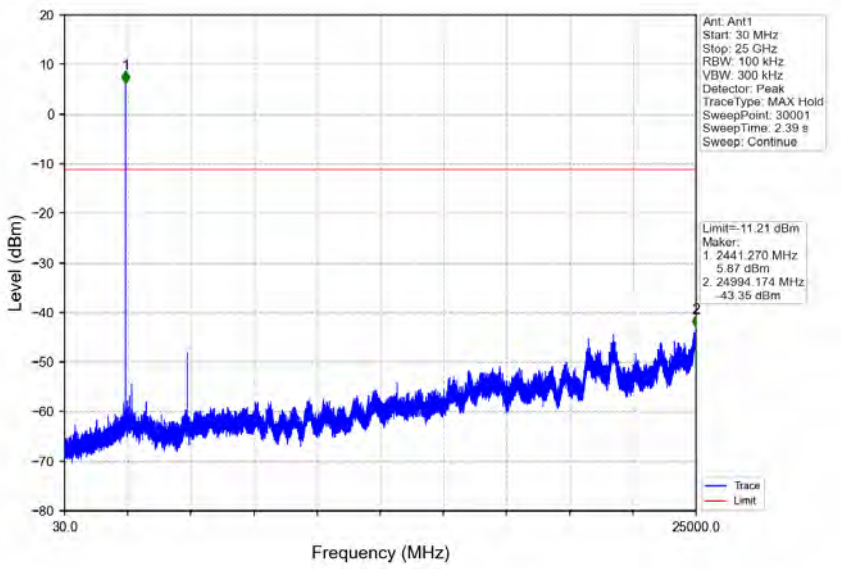
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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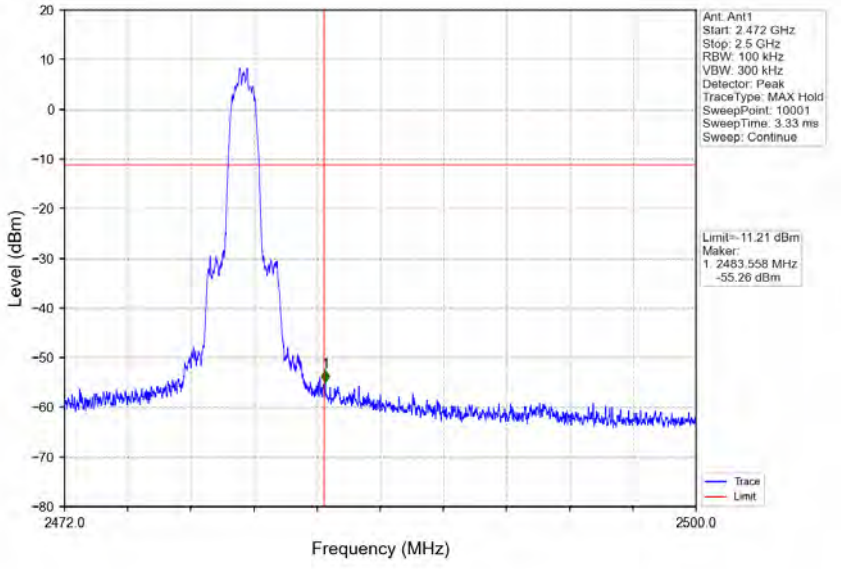

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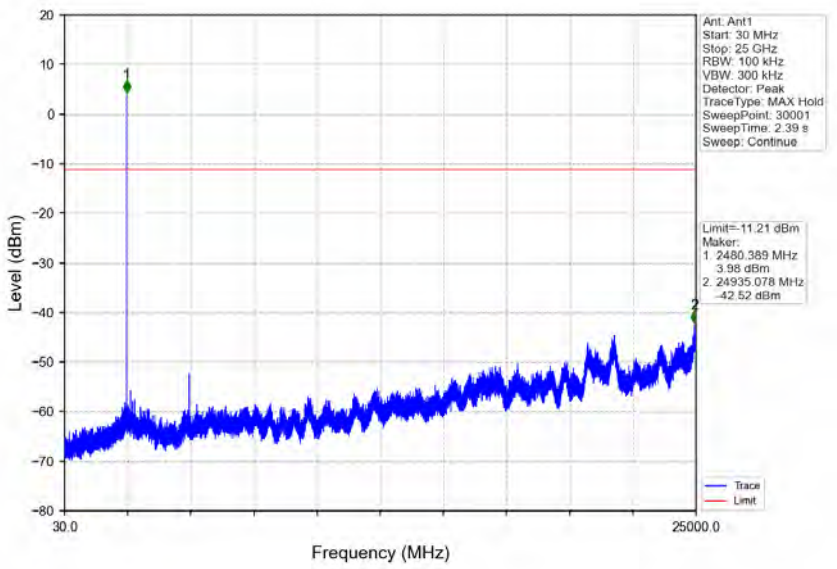

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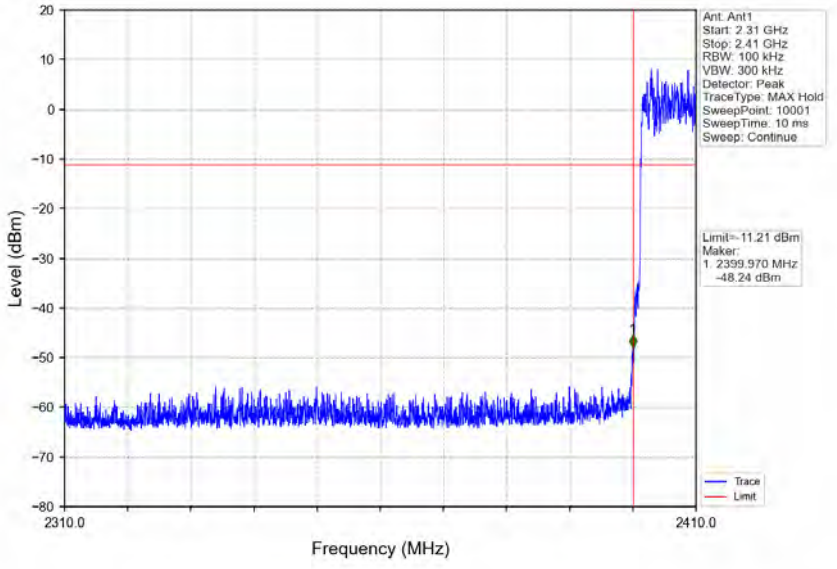

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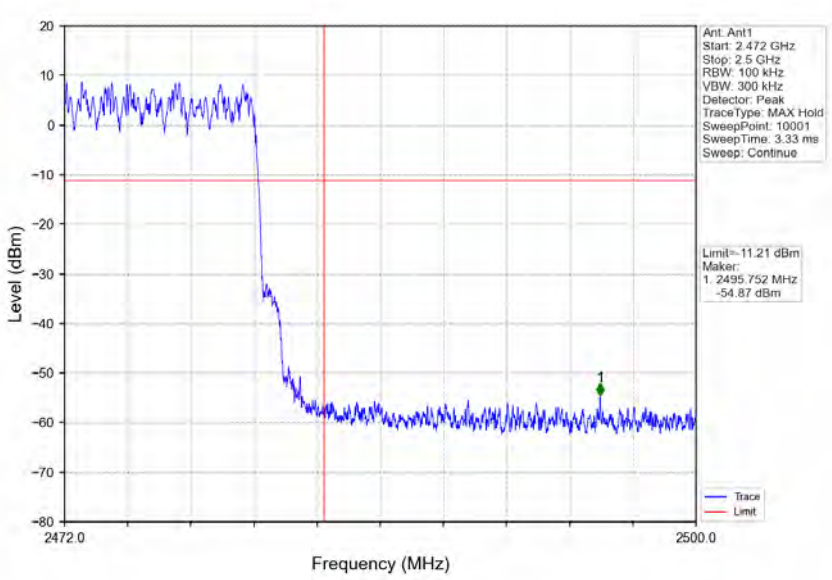

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