



5. Number of Hopping Frequencies

5.1 Test Result

5.1.1 HoppNum

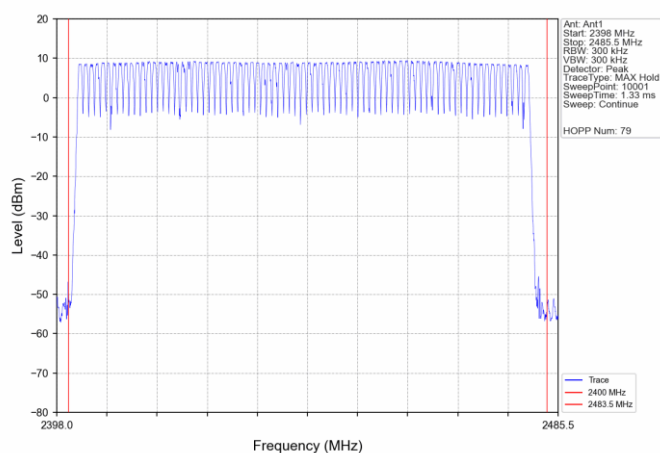
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass



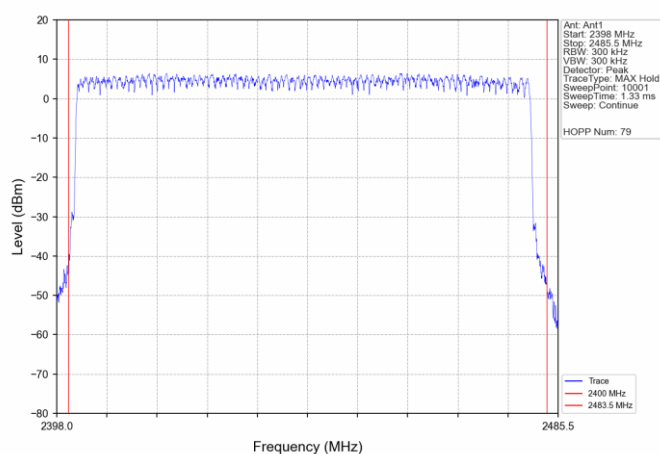
5.2 Test Graph

5.2.1 HoppNum

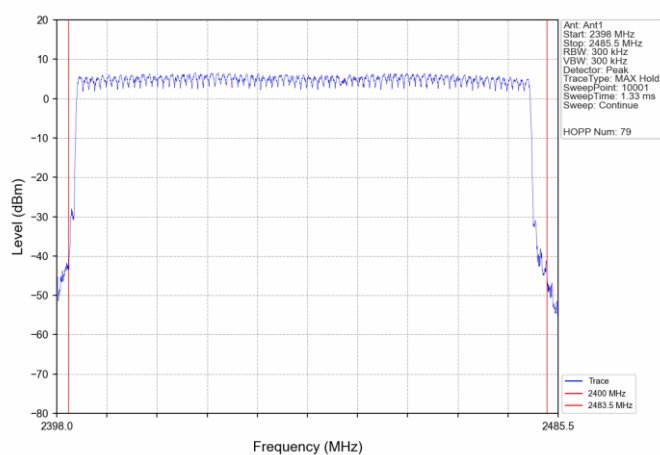
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant1

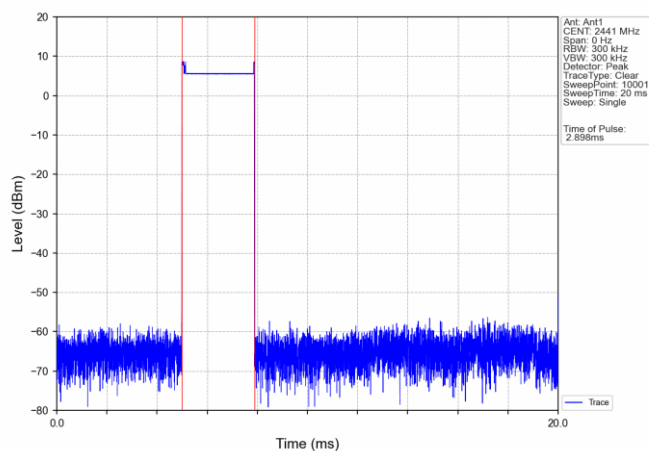
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.898	31.600	119	344.862	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	2.900	31.600	104	301.600	<=400	Pass
8DPSK	SISO	HOPP	3DH5	2.900	31.600	113	327.700	<=400	Pass



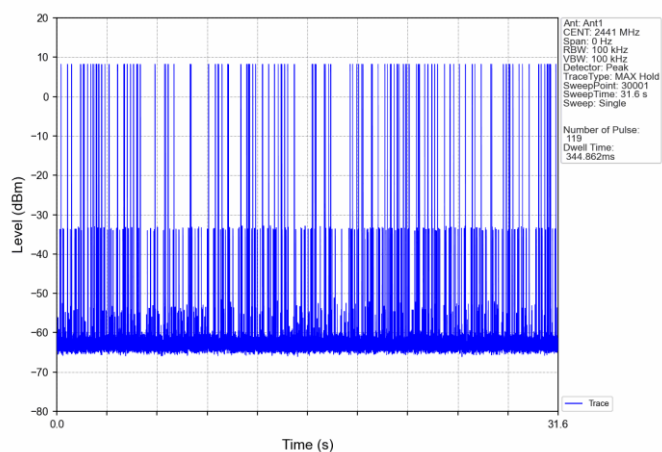
6.2 Test Graph

6.2.1 Ant1

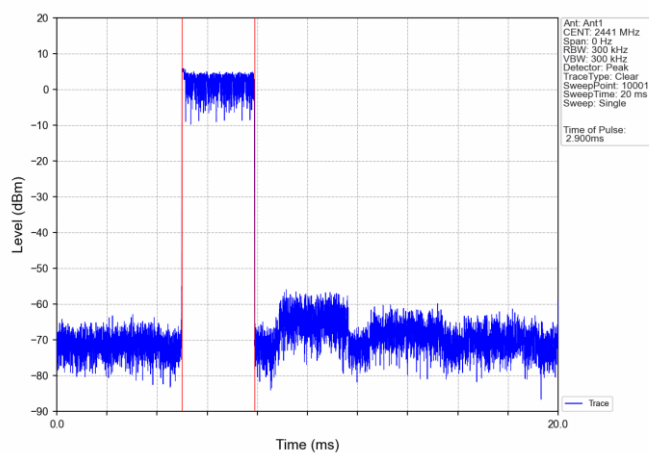
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

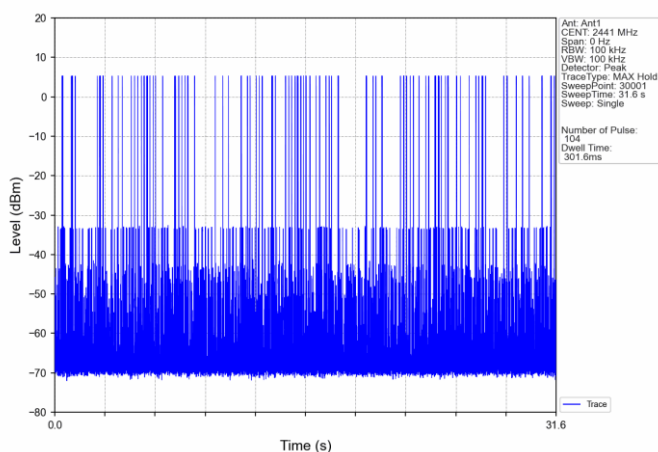


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

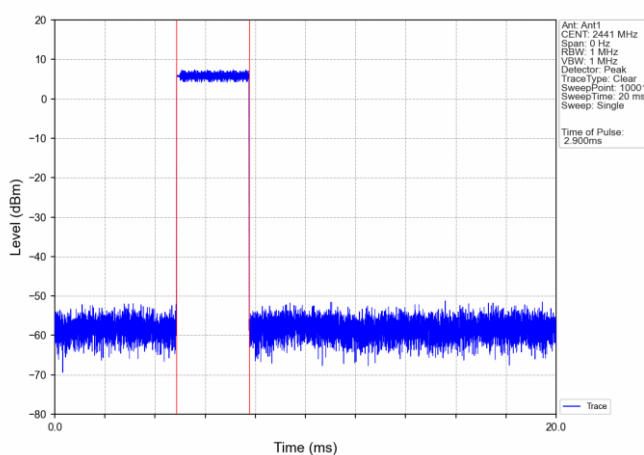




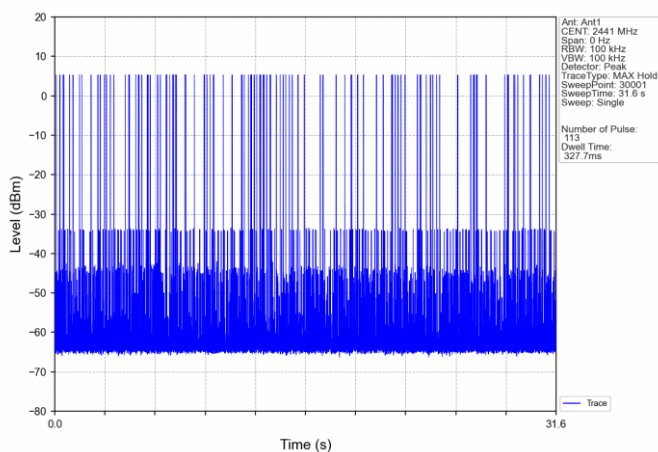
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	8.35
		2441	DH5	1	8.67
		2480	DH5	1	8.09
		HOPP	DH5	1	9.25
					9.25
Pi/4DQPSK	SISO	2402	2DH5	1	5.28
		2441	2DH5	1	5.75
		2480	2DH5	1	4.95
		HOPP	2DH5	1	6.09
					6.09
8DPSK	SISO	2402	3DH5	1	5.12
		2441	3DH5	1	5.80
		2480	3DH5	1	5.03
		HOPP	3DH5	1	6.26
					6.26

7.1.2 CSE

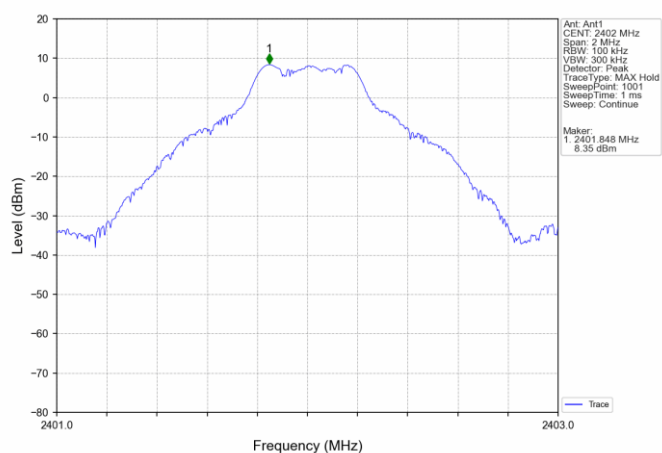
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.35	-11.65	Pass
		2441	DH5	1	8.67	-11.33	Pass
		2480	DH5	1	8.09	-11.91	Pass
		HOPP	DH5	1	9.25	-10.75	Pass
					9.25	-10.75	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.28	-14.72	Pass
		2441	2DH5	1	5.75	-14.25	Pass
		2480	2DH5	1	4.95	-15.05	Pass
		HOPP	2DH5	1	6.09	-13.91	Pass
					6.09	-13.91	Pass
8DPSK	SISO	2402	3DH5	1	5.12	-14.88	Pass
		2441	3DH5	1	5.80	-14.20	Pass
		2480	3DH5	1	5.03	-14.97	Pass
		HOPP	3DH5	1	6.26	-13.74	Pass
					6.26	-13.74	Pass



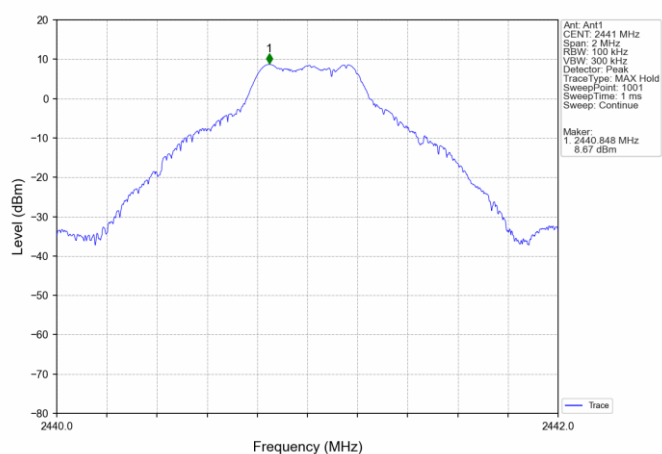
7.2 Test Graph

7.2.1 Ref

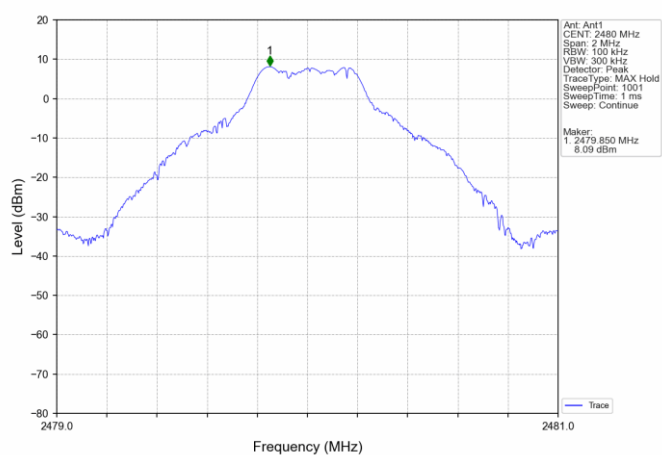
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV

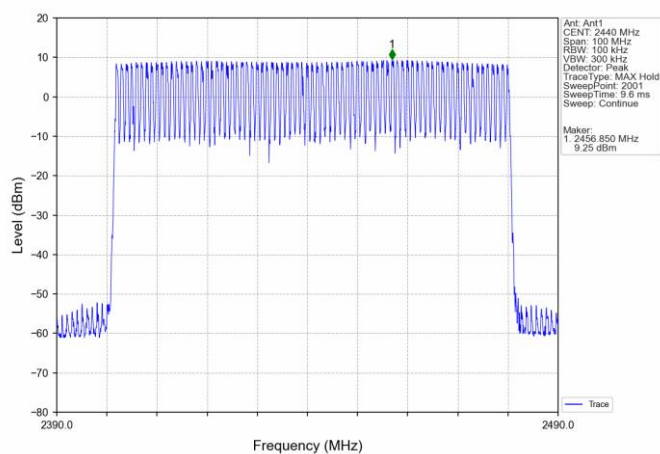


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

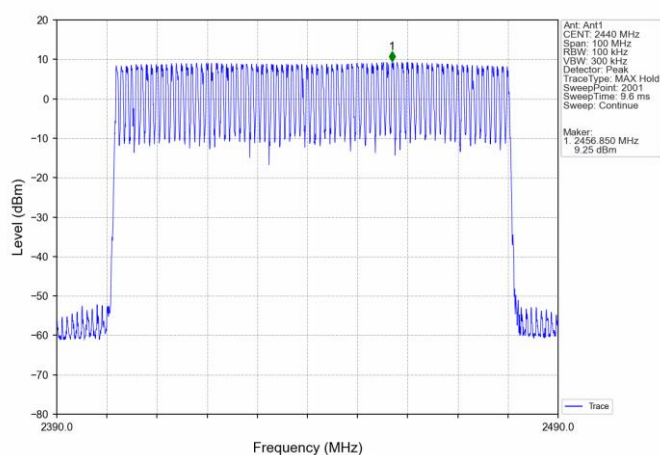




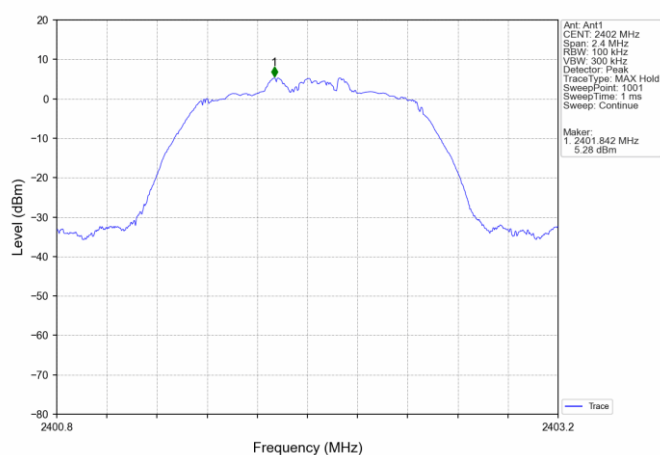
GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV

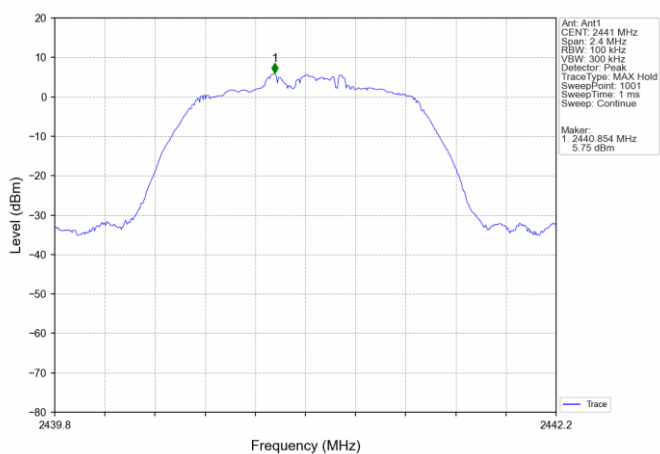


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

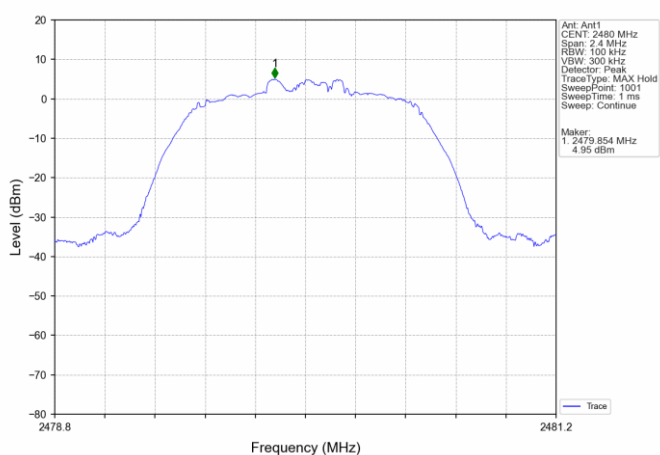




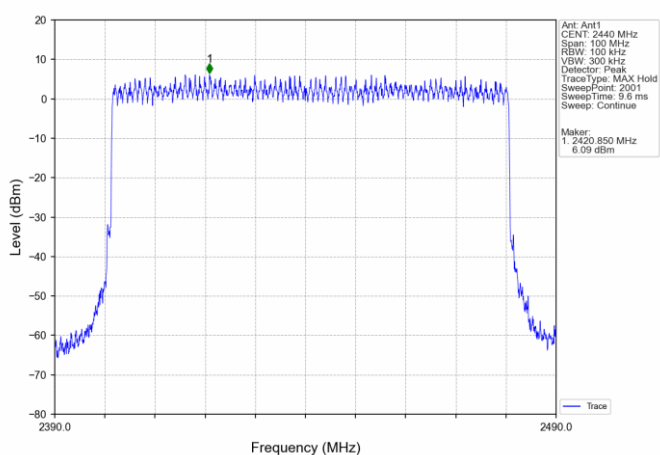
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

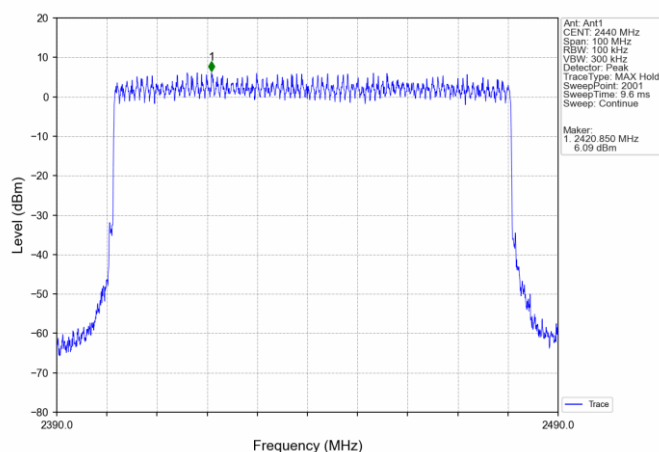


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

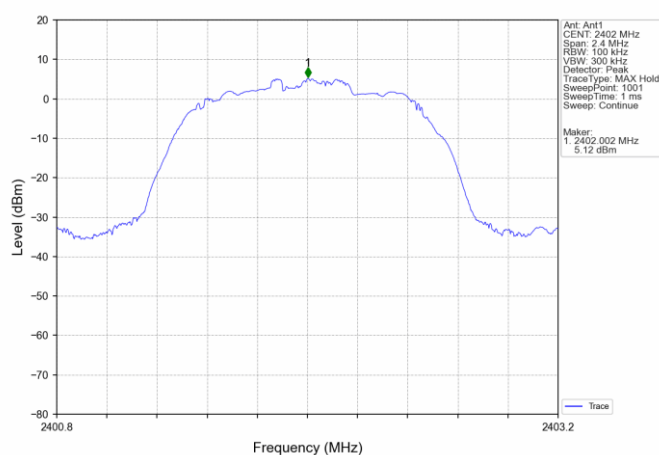




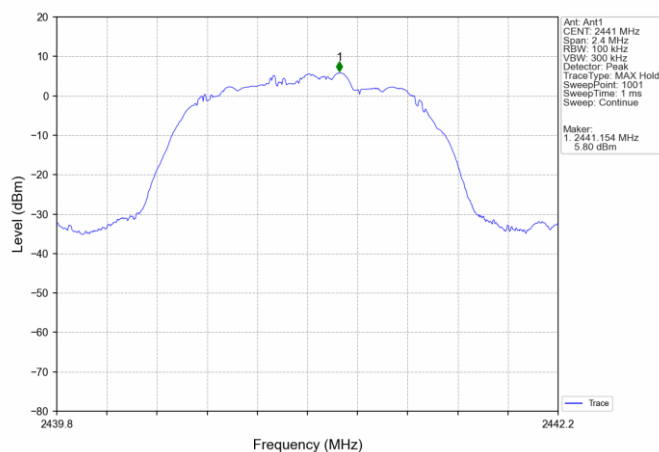
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

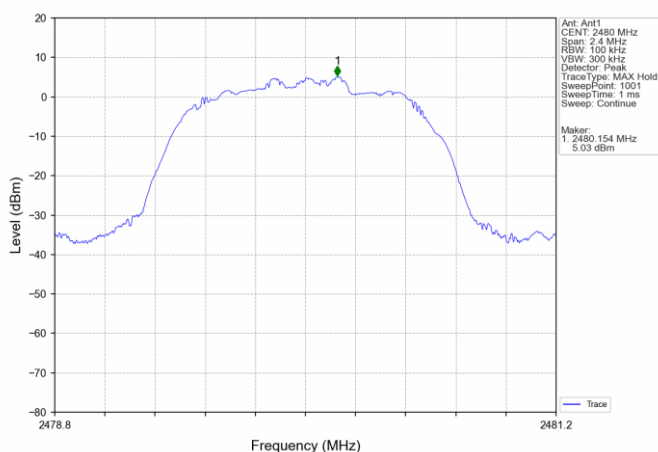


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

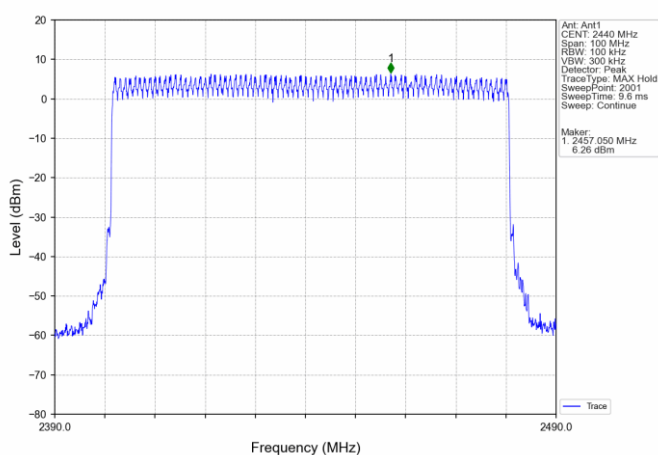




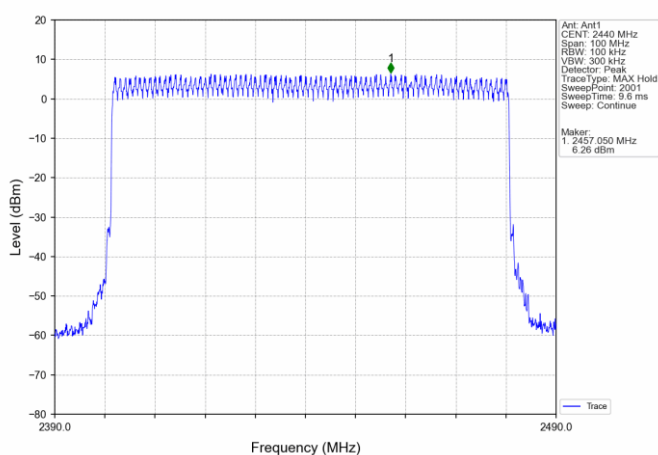
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



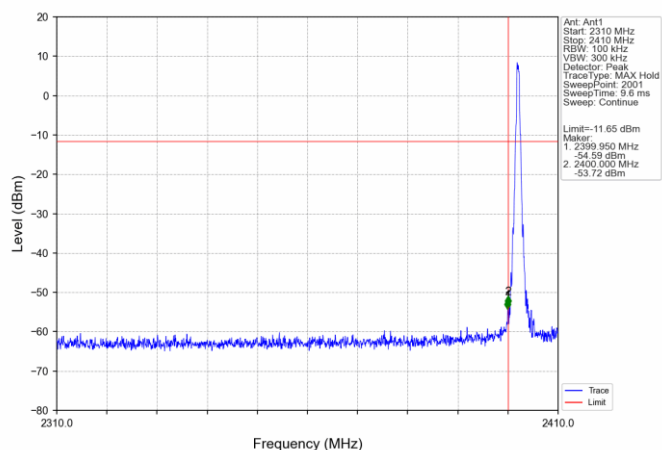
8DPSK_3DH5_HOPP_Ant1_NTNV



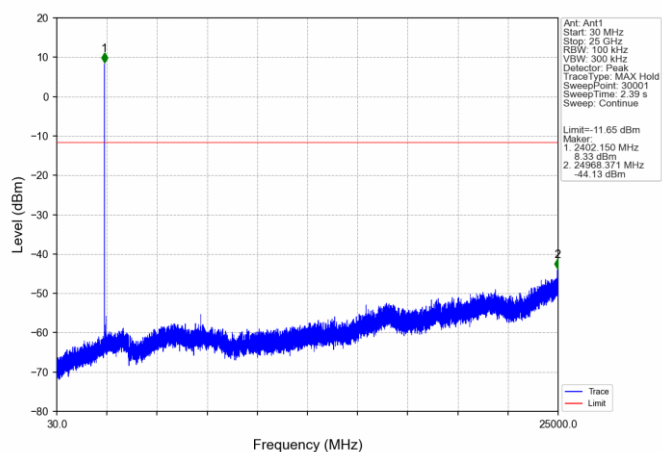


7.2.2 CSE

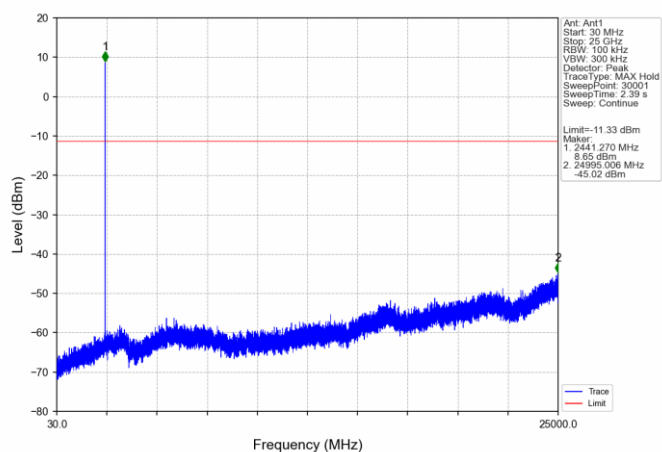
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_LCH_2402MHz_Ant1_NTNV

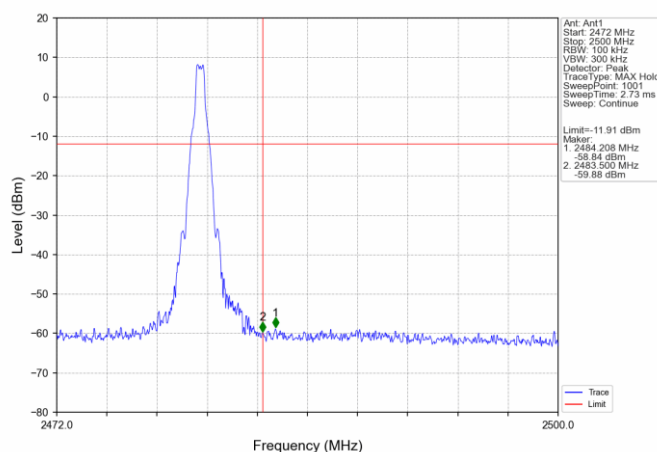


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

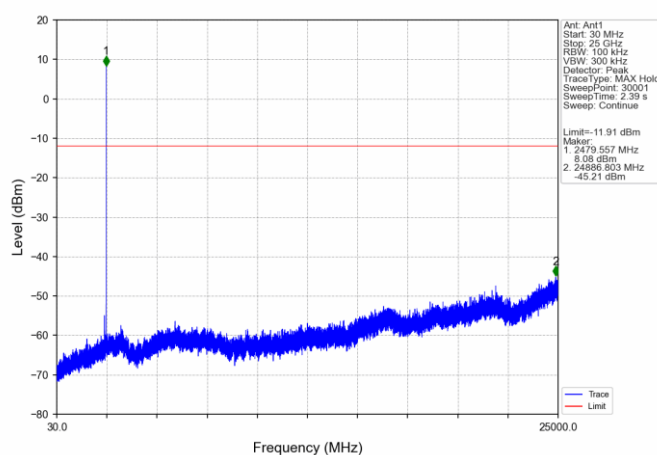




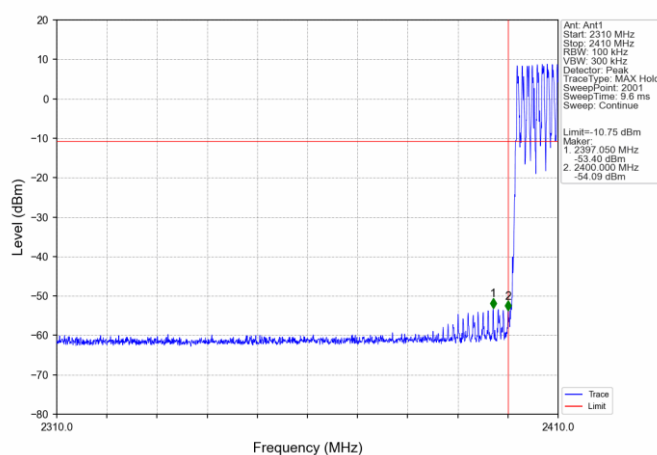
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV

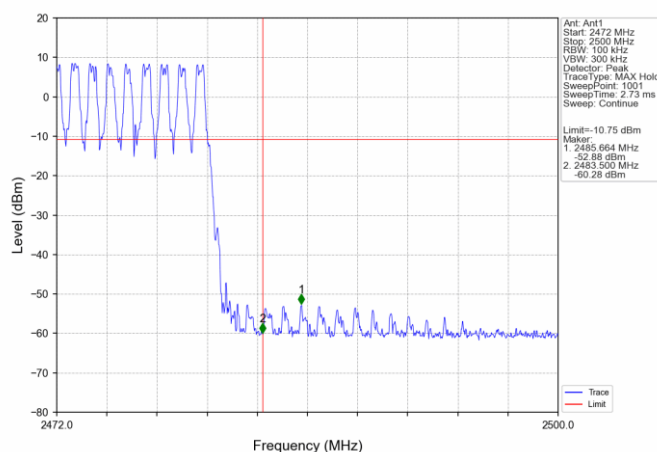


GFSK_DH5_HOPP_Ant1_NTNV

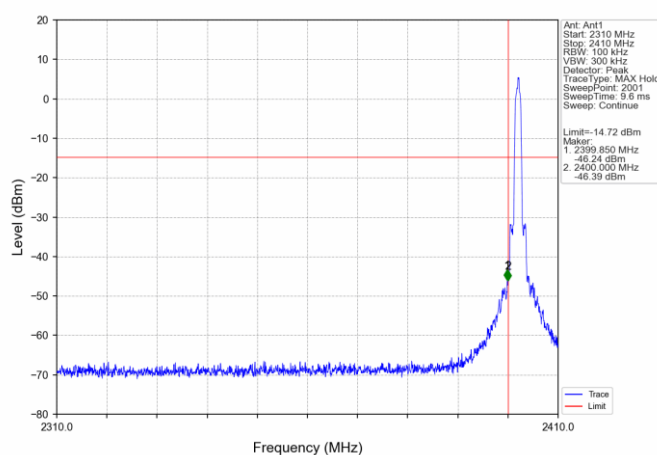




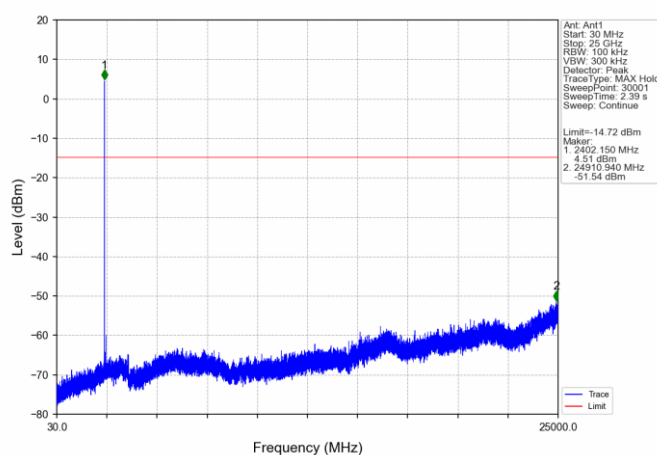
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

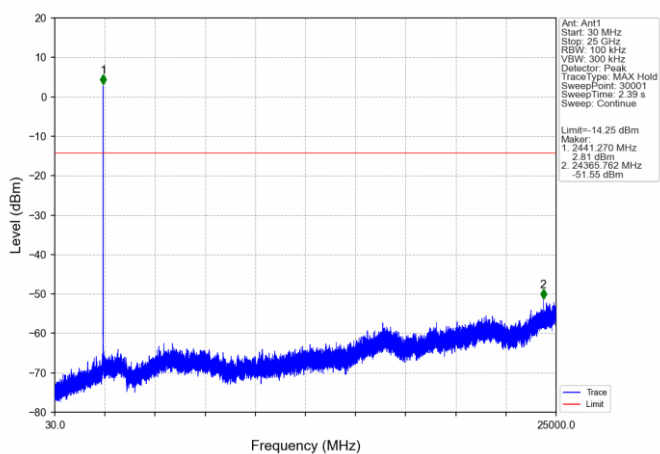


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

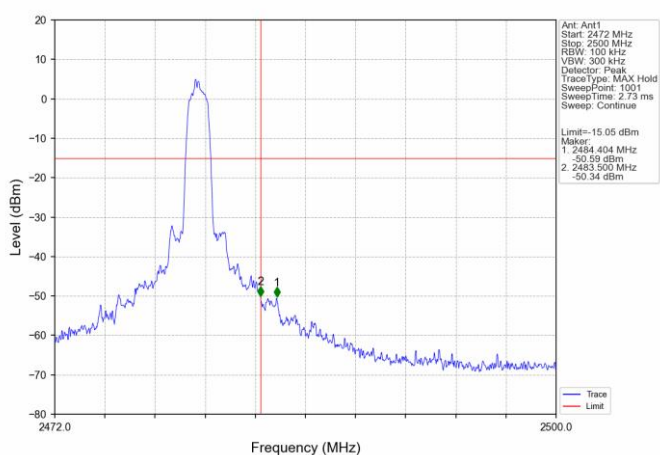




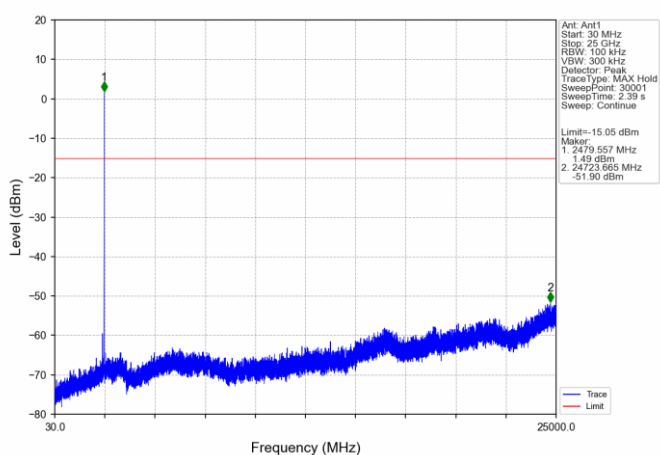
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

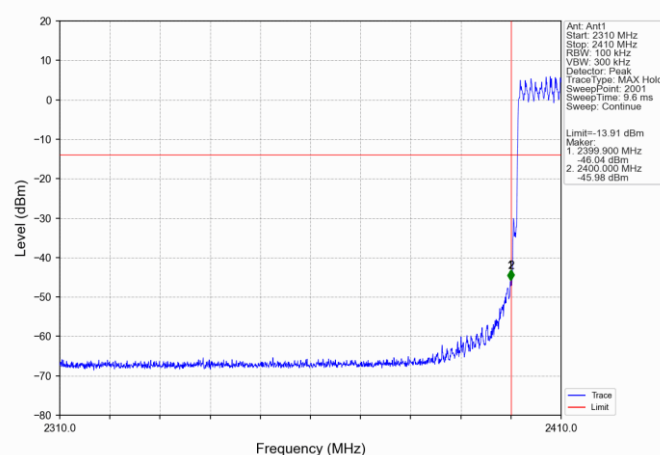


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

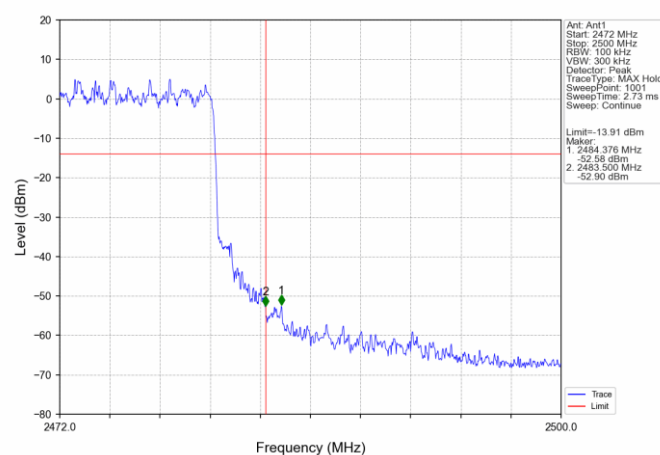




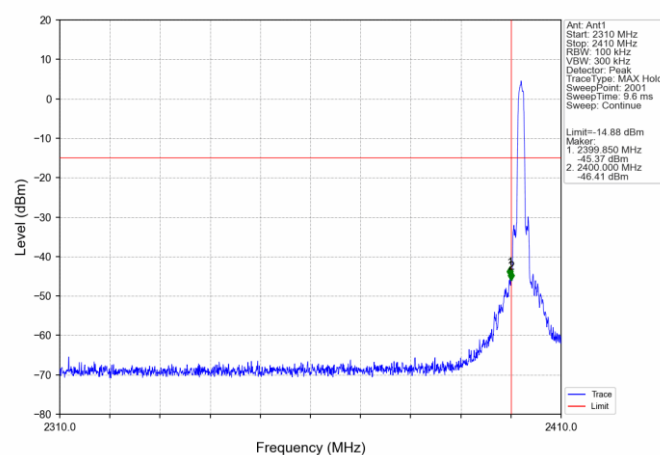
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

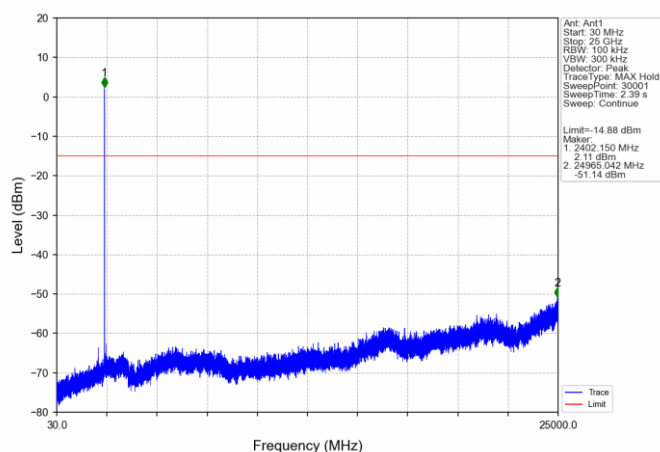


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

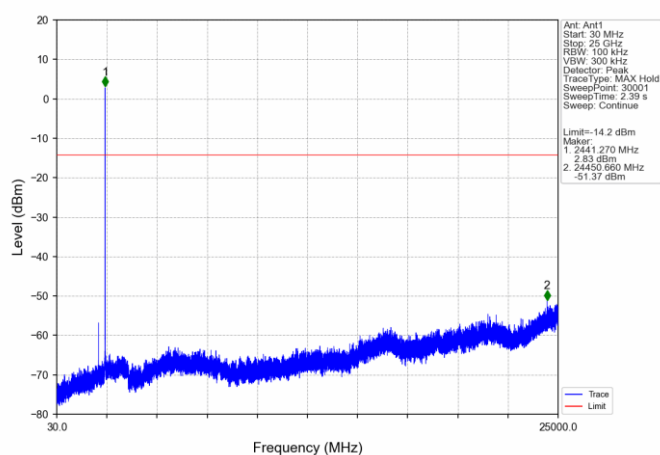




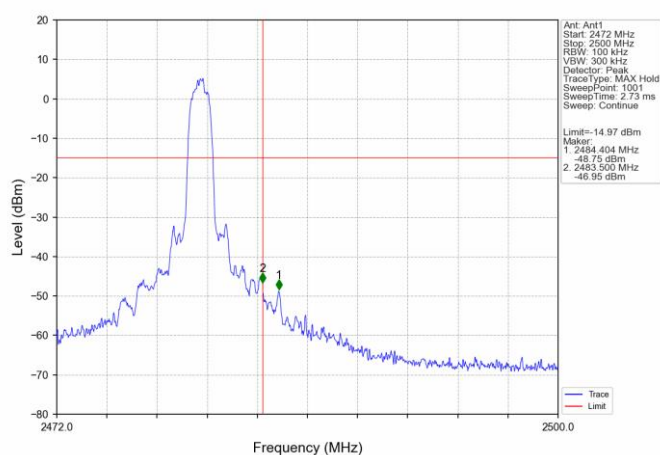
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

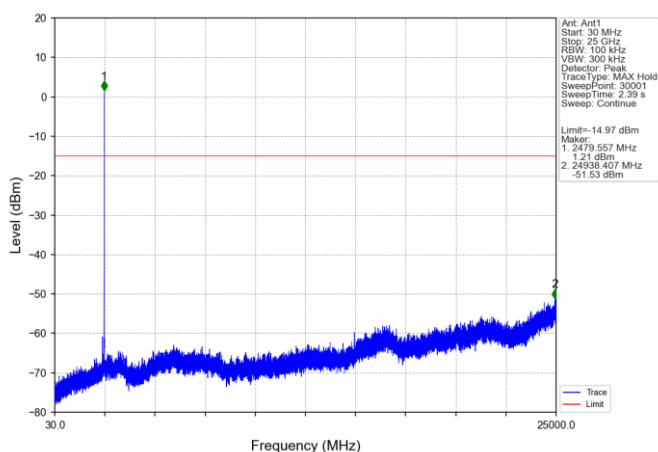


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

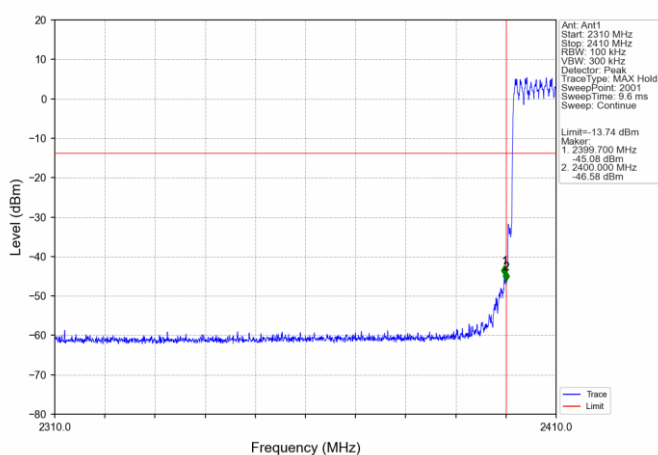




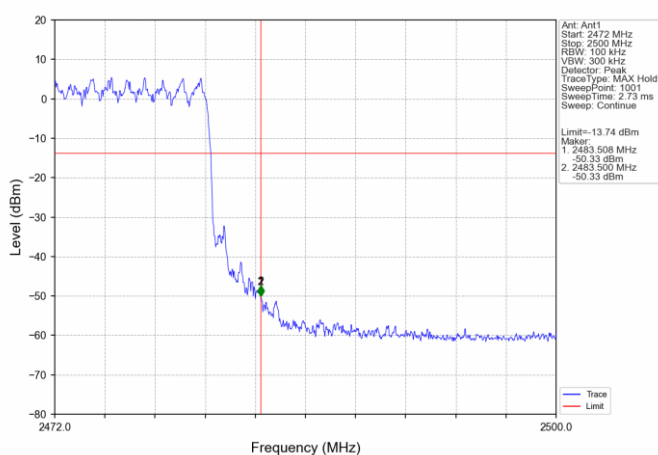
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





Spot-check Data

1. Duty Cycle

1.1 Test Result

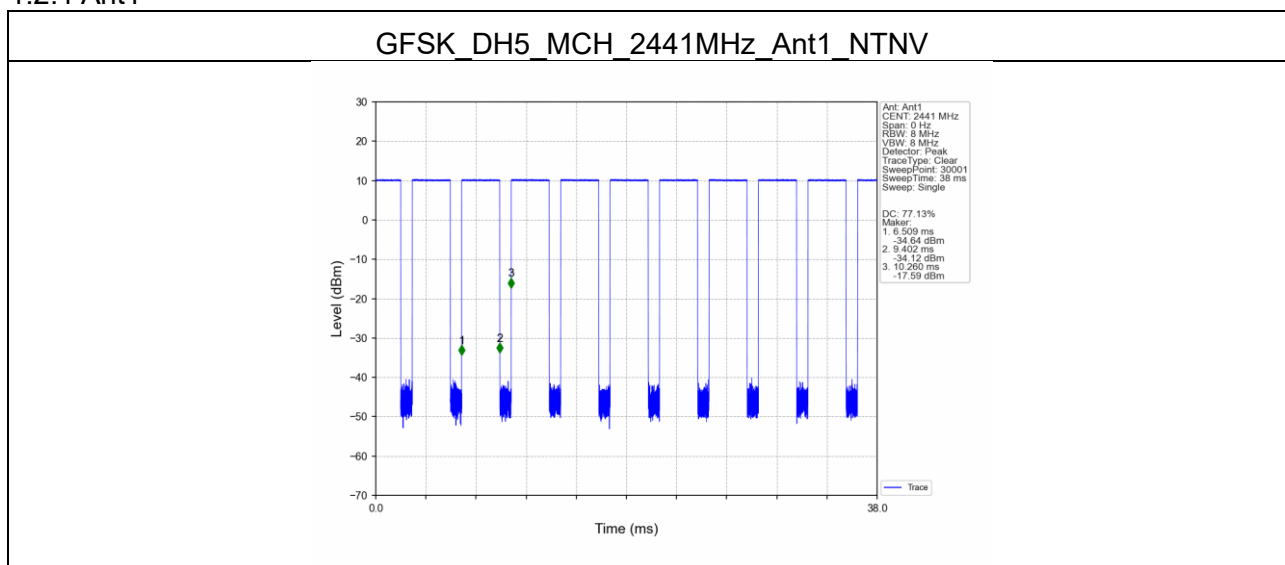
1.1.1 Ant1

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2441	DH5	2.893	3.751	77.13	1.13	0.06



1.2 Test Graph

1.2.1 Ant1





2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2441	DH5	1	0.813	/	Pass

2.1.2 20dB BW

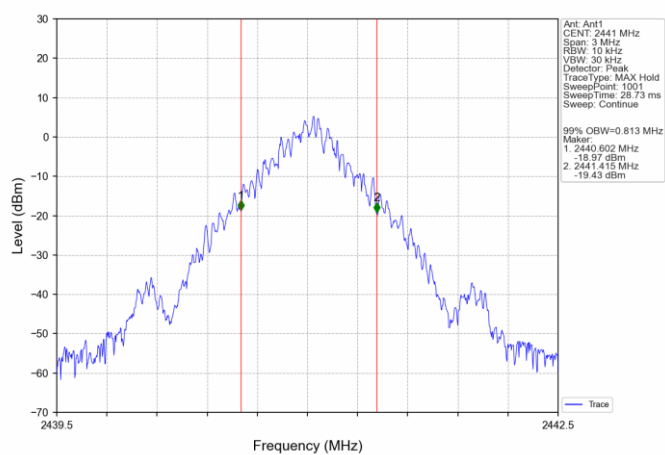
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2441	DH5	1	0.882	/	Pass



2.2 Test Graph

2.2.1 OBW

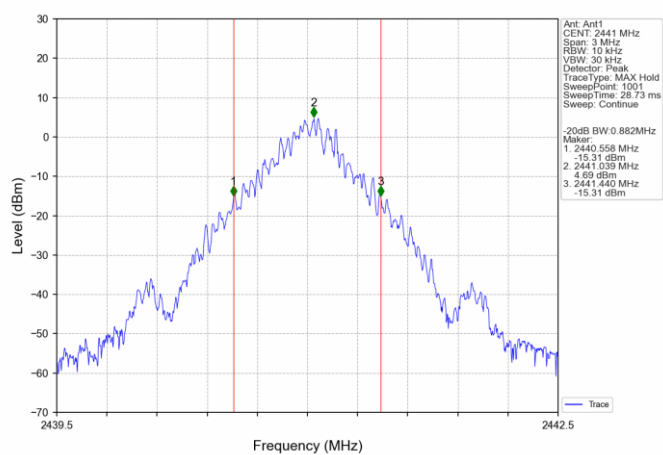
GFSK_DH5_MCH_2441MHz_Ant1_NTNV





2.2.2 20dB BW

GFSK_DH5_MCH_2441MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

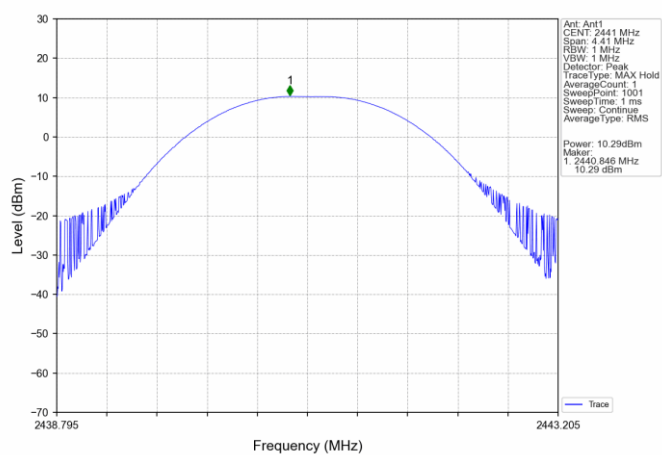
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2441	DH5	10.29	<=30	Pass
Note1: Antenna Gain: Ant1: 0.33dBi;						



3.2 Test Graph

3.2.1 Power

GFSK_DH5_MCH_2441MHz_Ant1_NTNV





4. Carrier Frequency Separation

4.1 Test Result

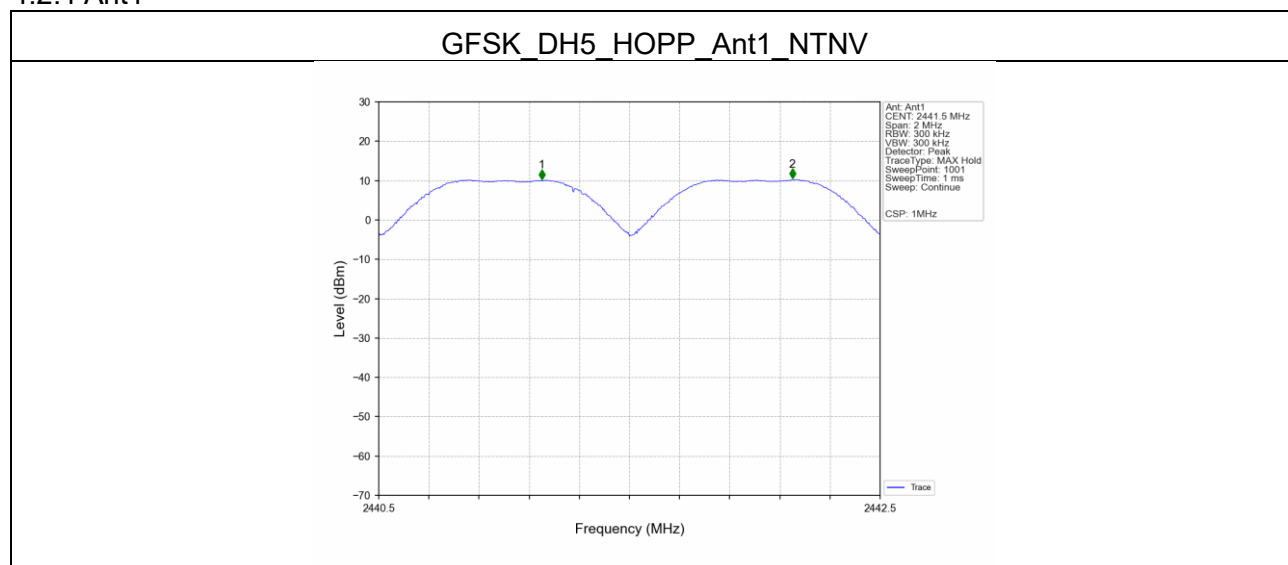
4.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.882	≥ 0.882	Pass



4.2 Test Graph

4.2.1 Ant1





5. Number of Hopping Frequencies

5.1 Test Result

5.1.1 HoppNum

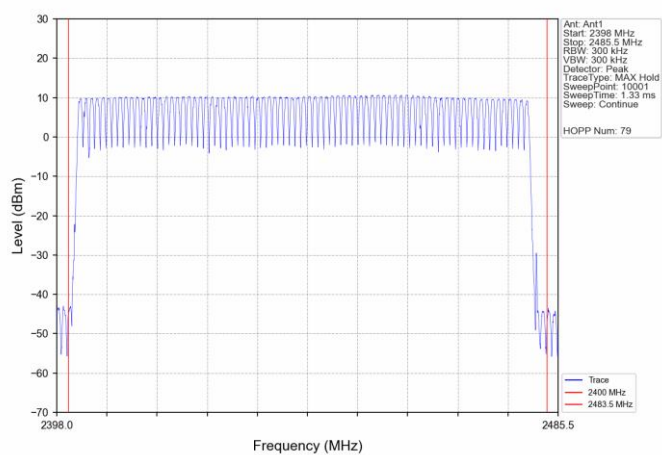
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass



5.2 Test Graph

5.2.1 HoppNum

GFSK_DH5_HOPP_Ant1_NTNV





6. Time of Occupancy (Dwell Time)

6.1 Test Result

6.1.1 Ant1

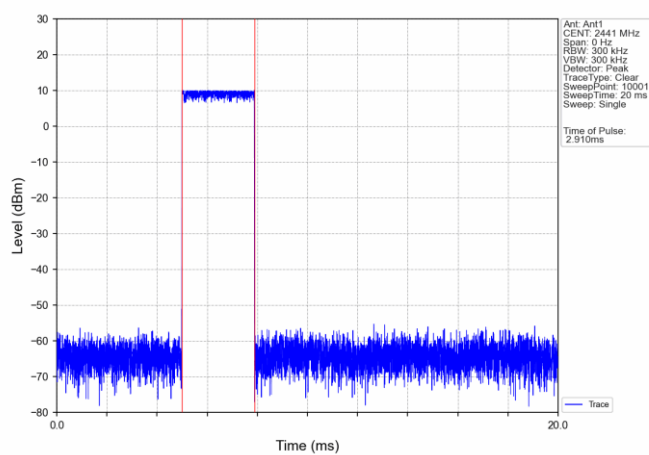
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH5	2.910	31.600	106	308.460	<=400	Pass



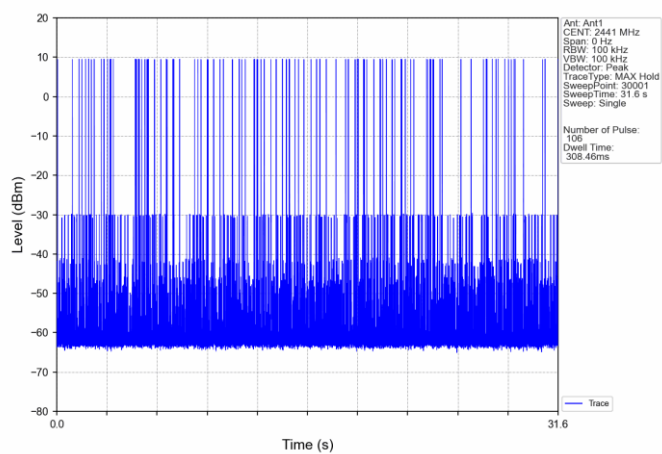
6.2 Test Graph

6.2.1 Ant1

GFSK_DH5_HOPP_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV





7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Test Result

7.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	9.54
		2441	DH5	1	9.93

7.1.2 CSE

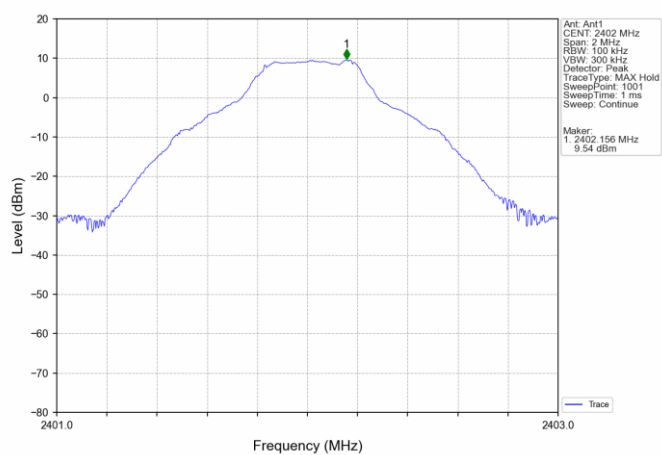
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	9.54	-10.69	Pass
		2441	DH5	1	9.93	-10.07	Pass



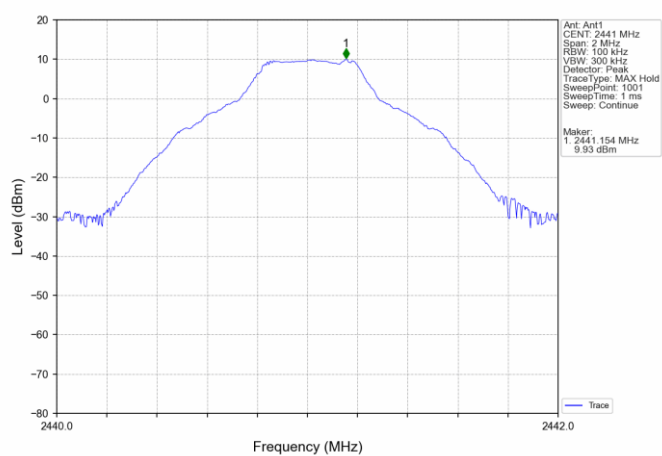
7.2 Test Graph

7.2.1 Ref

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



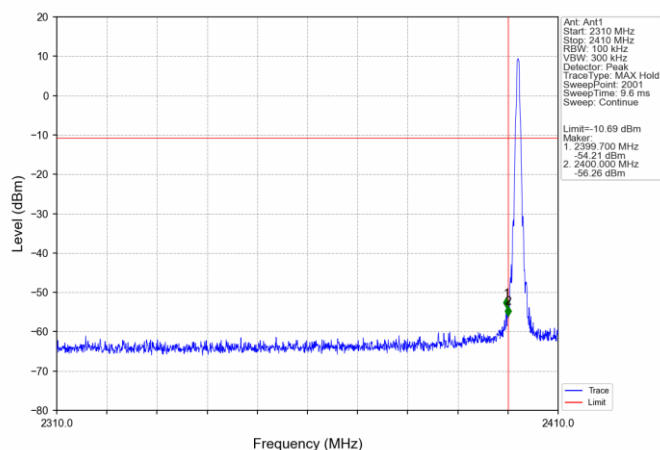
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



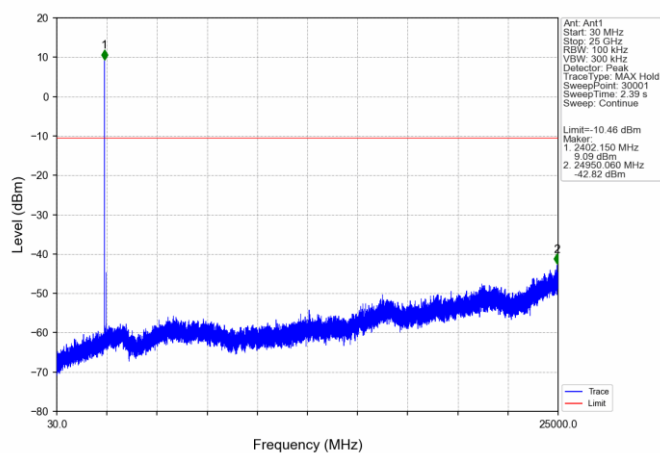


7.2.2 CSE

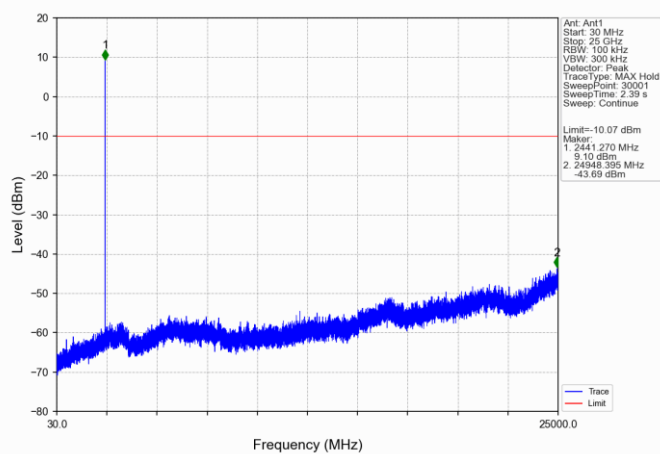
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_LCH_2402MHz_Ant1_NTNV



GFSK_DH5_MCH_2441MHz_Ant1_NTNV





APPENDIX II - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID.

※※

※※※END OF THE REPORT※※※※※