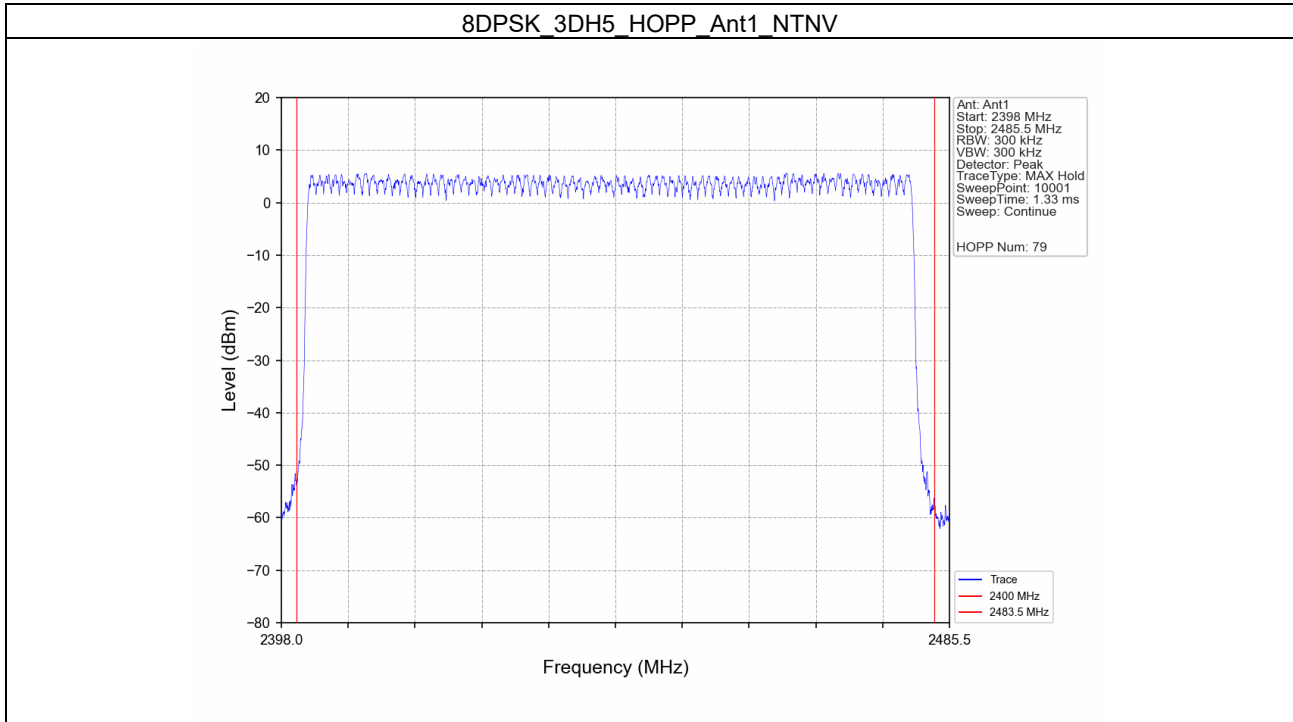




5. Time of Occupancy (Dwell Time)

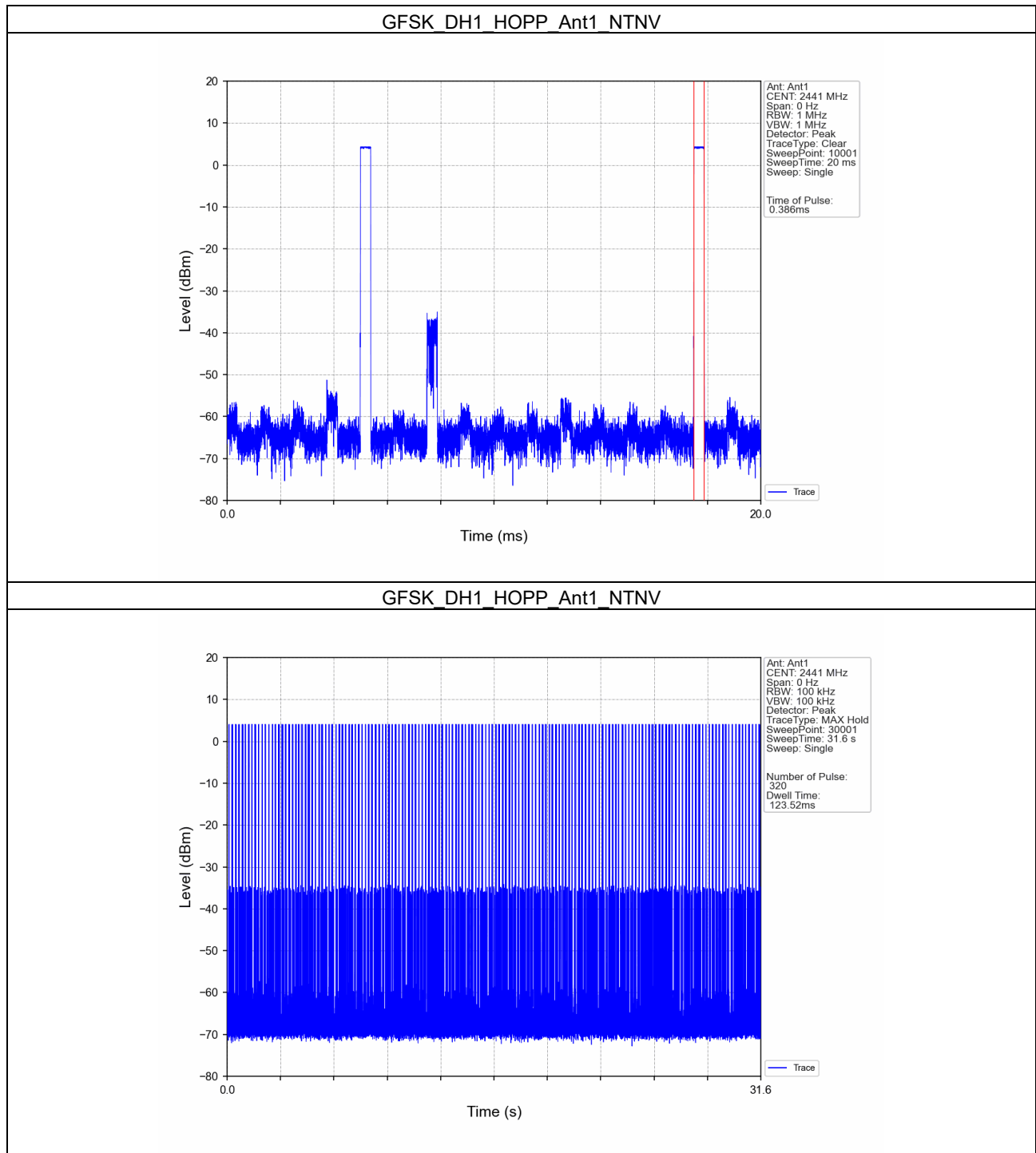
5.1 Test Result

5.1.1 Ant1

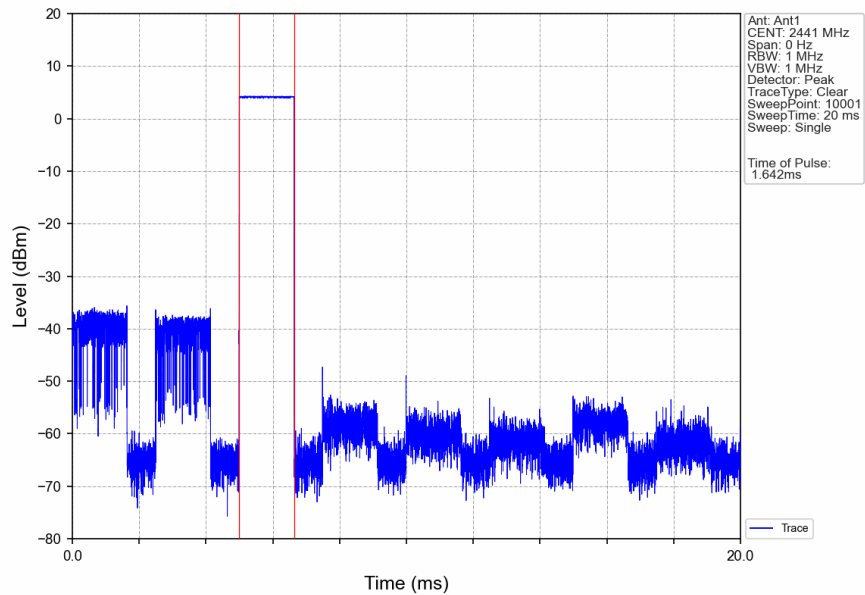
Ant1									
Mode	Tx Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.386	31.600	320	123.520	<=400	Pass
			DH3	1.642	31.600	165	270.930	<=400	Pass
			DH5	2.900	31.600	120	348.000	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	320	126.720	<=400	Pass
			2DH3	1.656	31.600	163	269.928	<=400	Pass
			2DH5	2.896	31.600	106	306.976	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.396	31.600	320	126.720	<=400	Pass
			3DH3	1.656	31.600	153	253.368	<=400	Pass
			3DH5	2.908	31.600	123	357.684	<=400	Pass

5.2 Test Graph

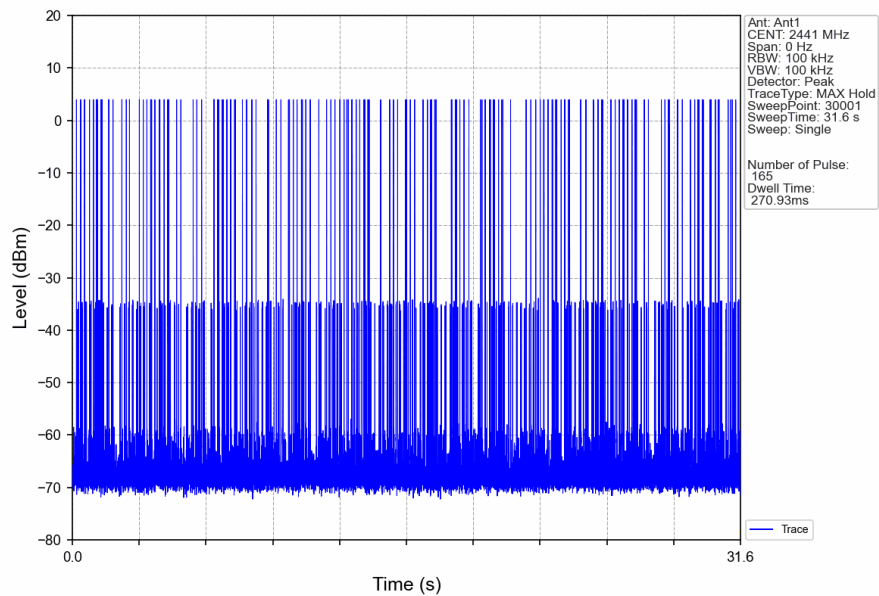
5.2.1 Ant1



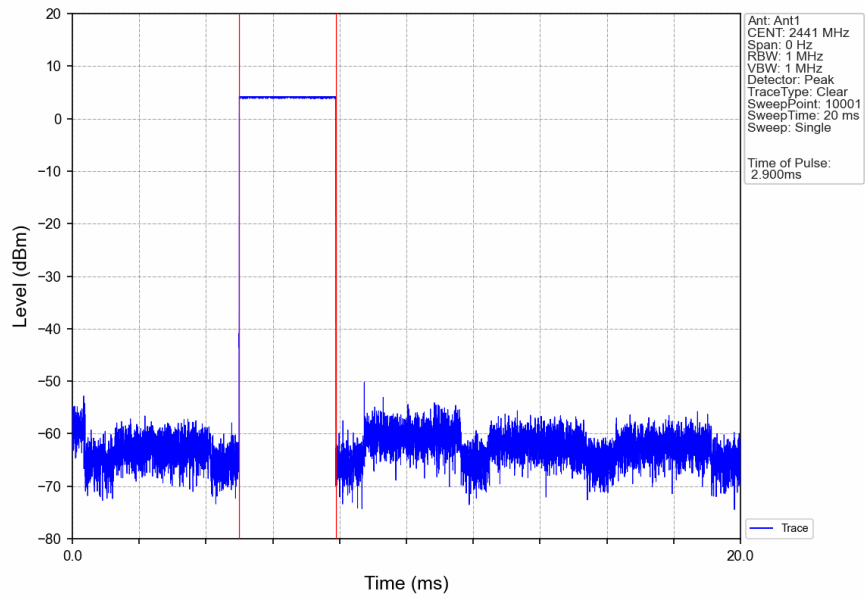
GFSK DH3 HOPP Ant1 NTN



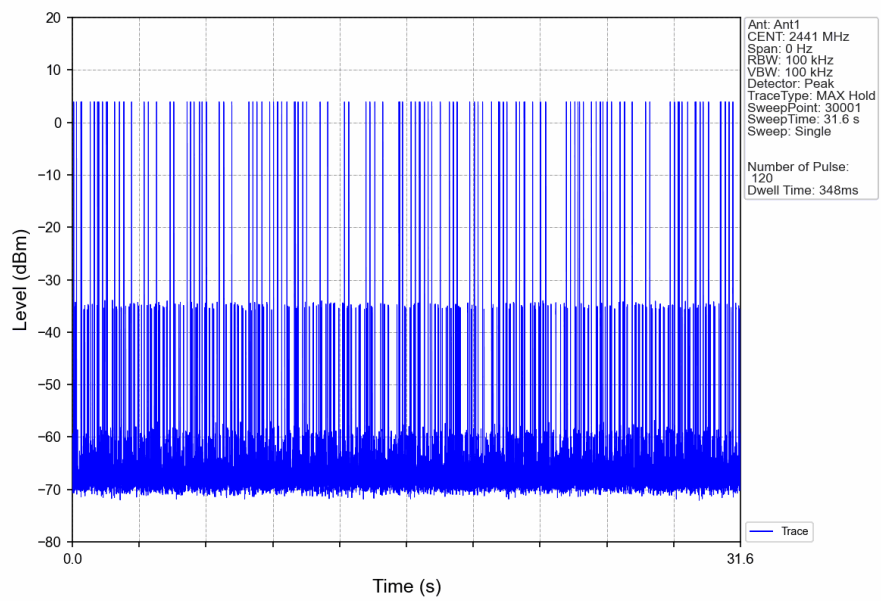
GFSK DH3 HOPP Ant1 NTN



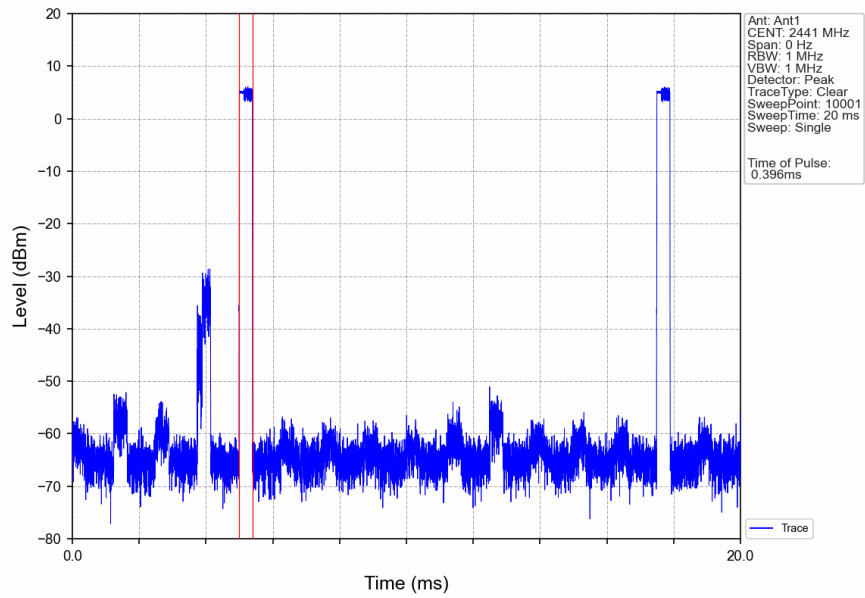
GFSK DH5 HOPP Ant1 NTN



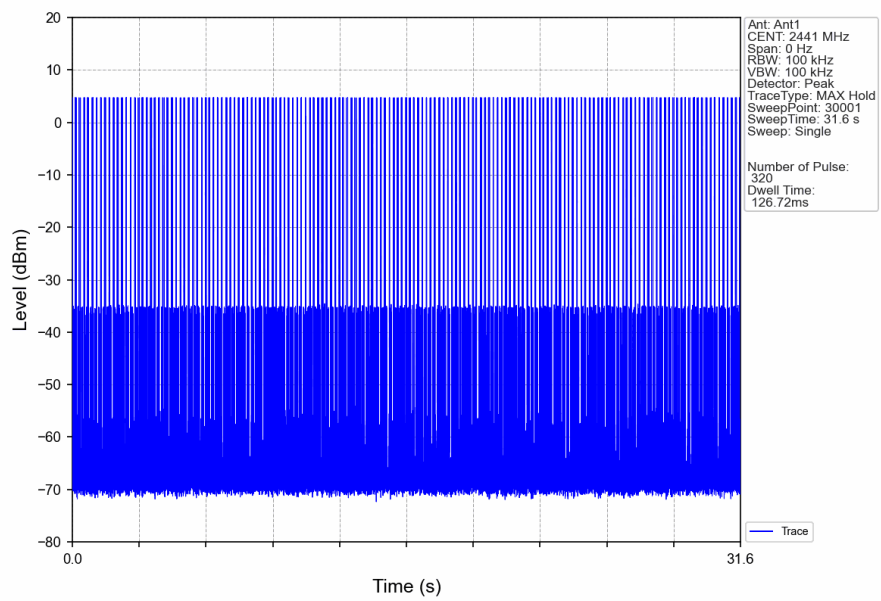
GFSK DH5 HOPP Ant1 NTN



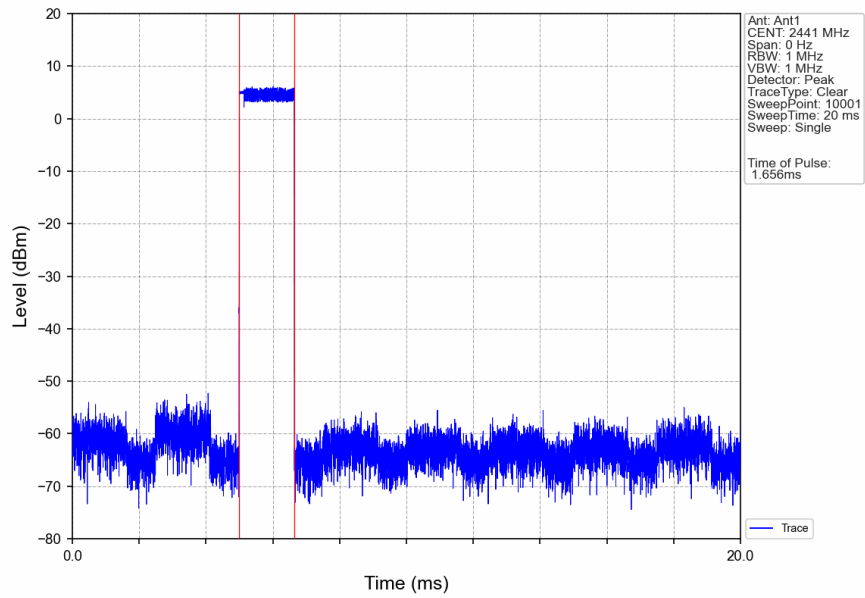
Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



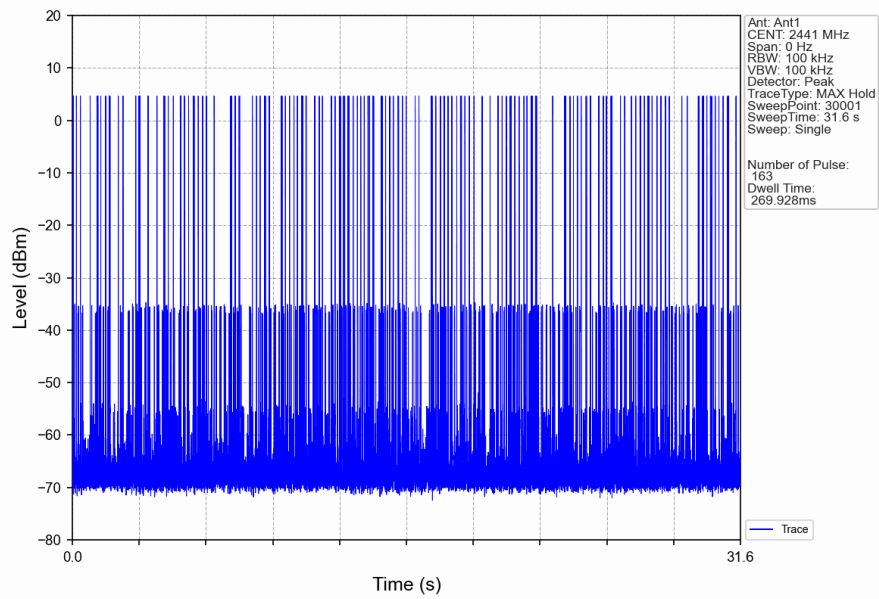
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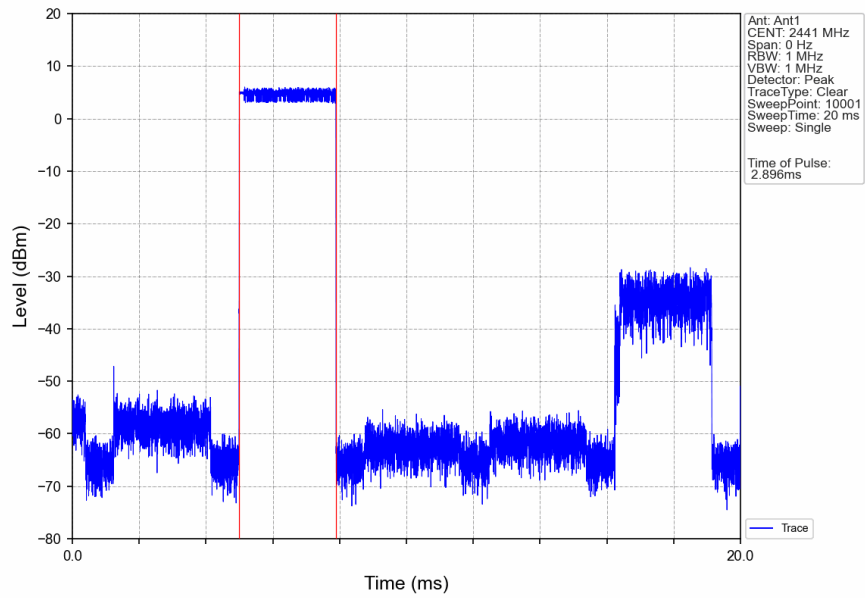
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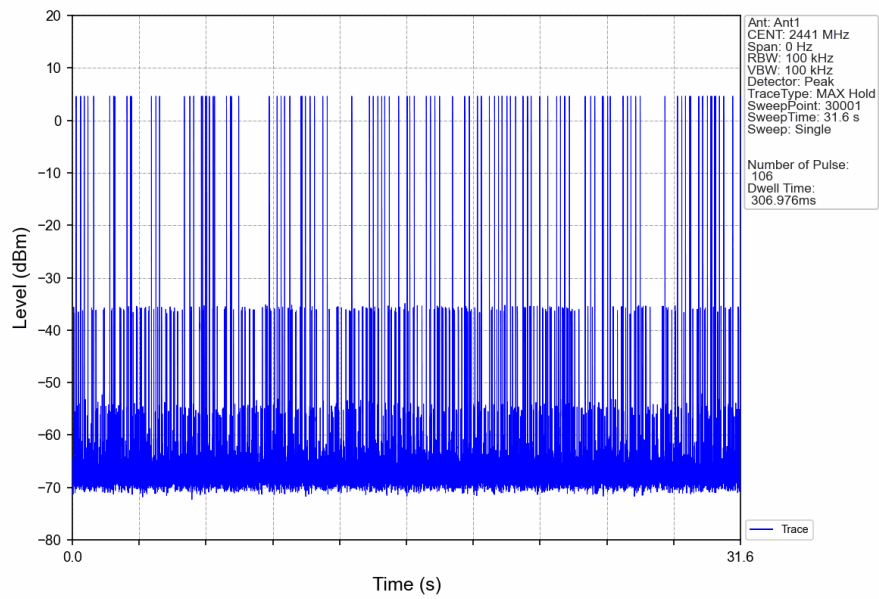
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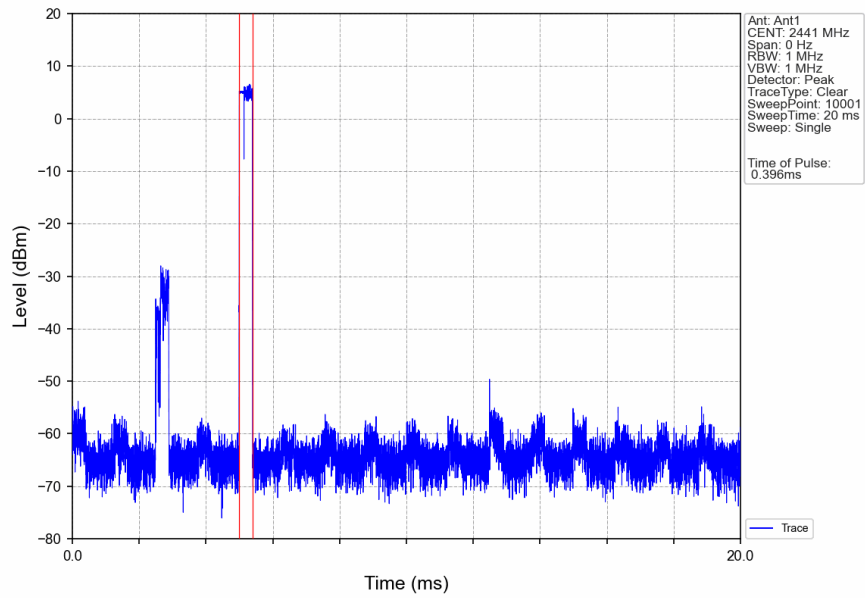
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



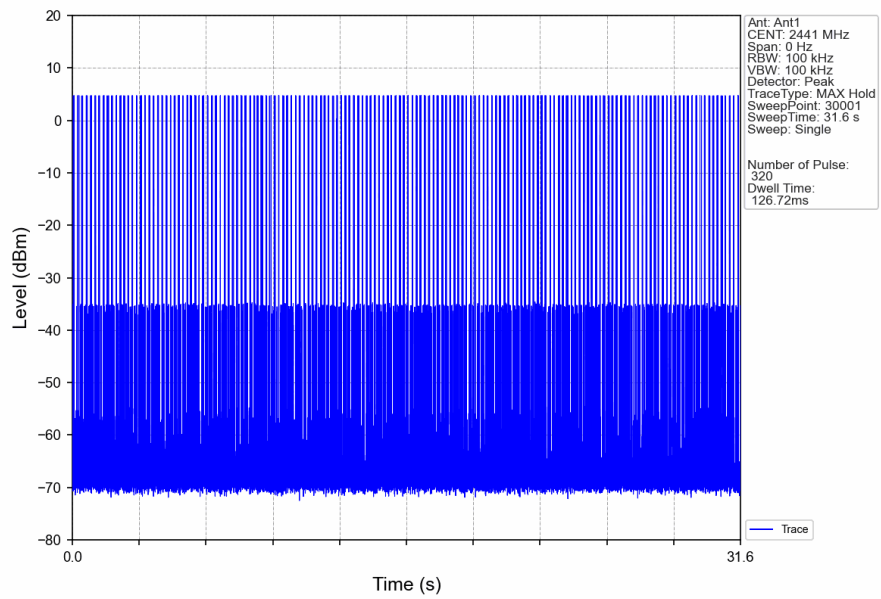
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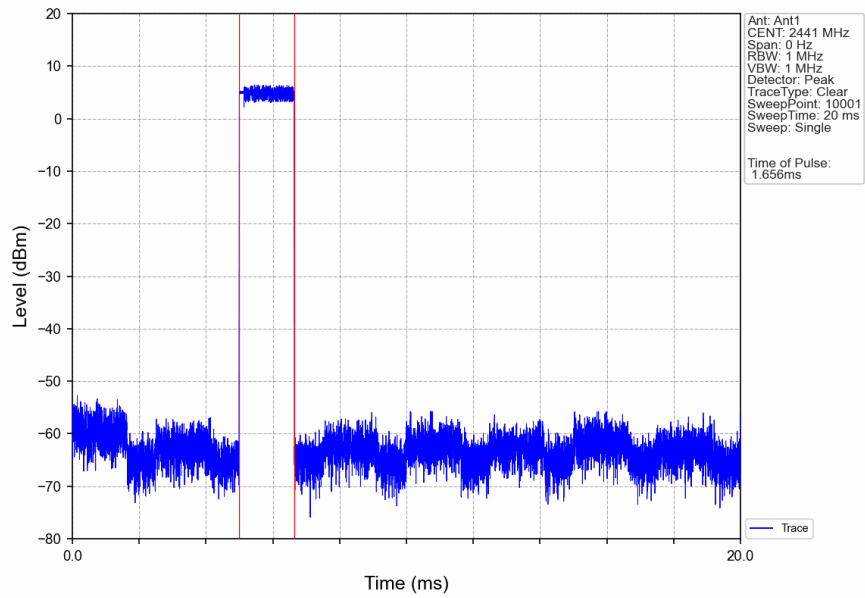
8DPSK 3DH1_HOPP_Ant1_NTNV



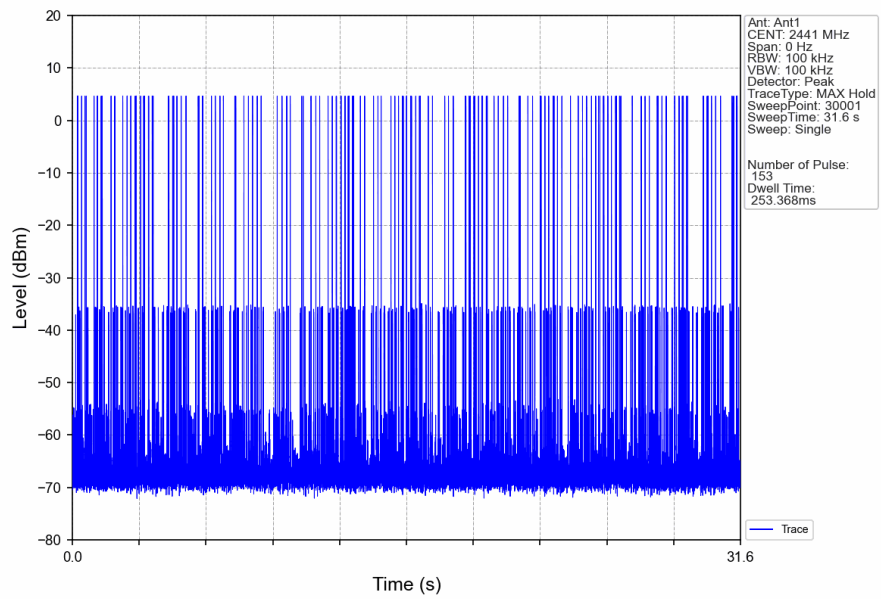
8DPSK 3DH1_HOPP_Ant1_NTNV



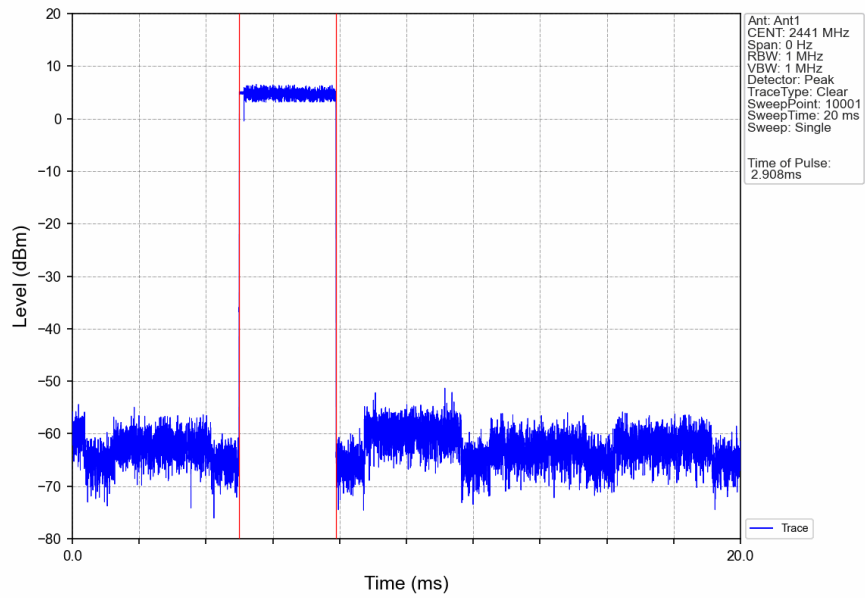
8DPSK 3DH3_HOPP_Ant1_NTNV



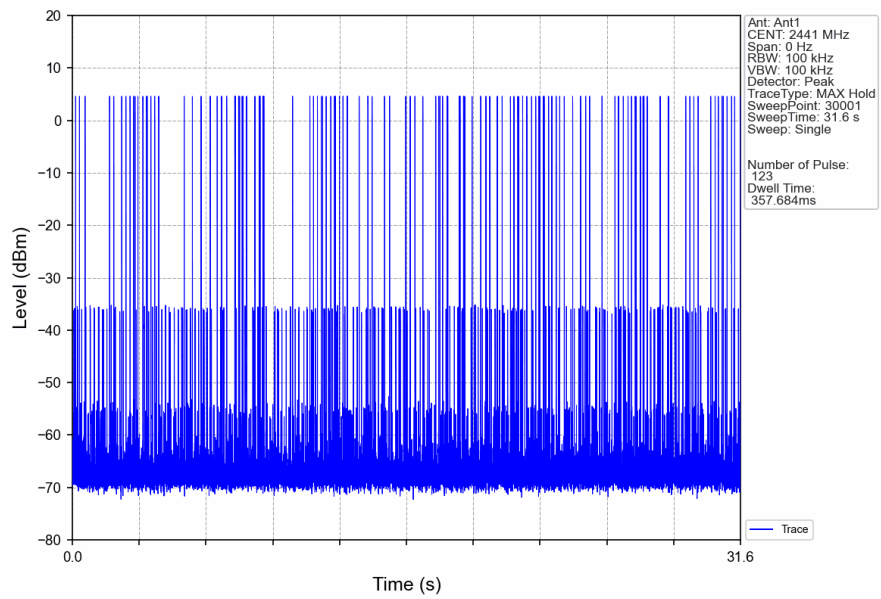
8DPSK 3DH3_HOPP_Ant1_NTNV



8DPSK 3DH5_HOPP_Ant1_NTNV



8DPSK 3DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	3.67
		2441	DH5	1	3.45
		2480	DH5	1	3.44
Pi/4DQPSK	SISO	2402	2DH5	1	5.12
		2441	2DH5	1	4.84
		2480	2DH5	1	5.09
8DPSK	SISO	2402	3DH5	1	5.15
		2441	3DH5	1	4.93
		2480	3DH5	1	5.09

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

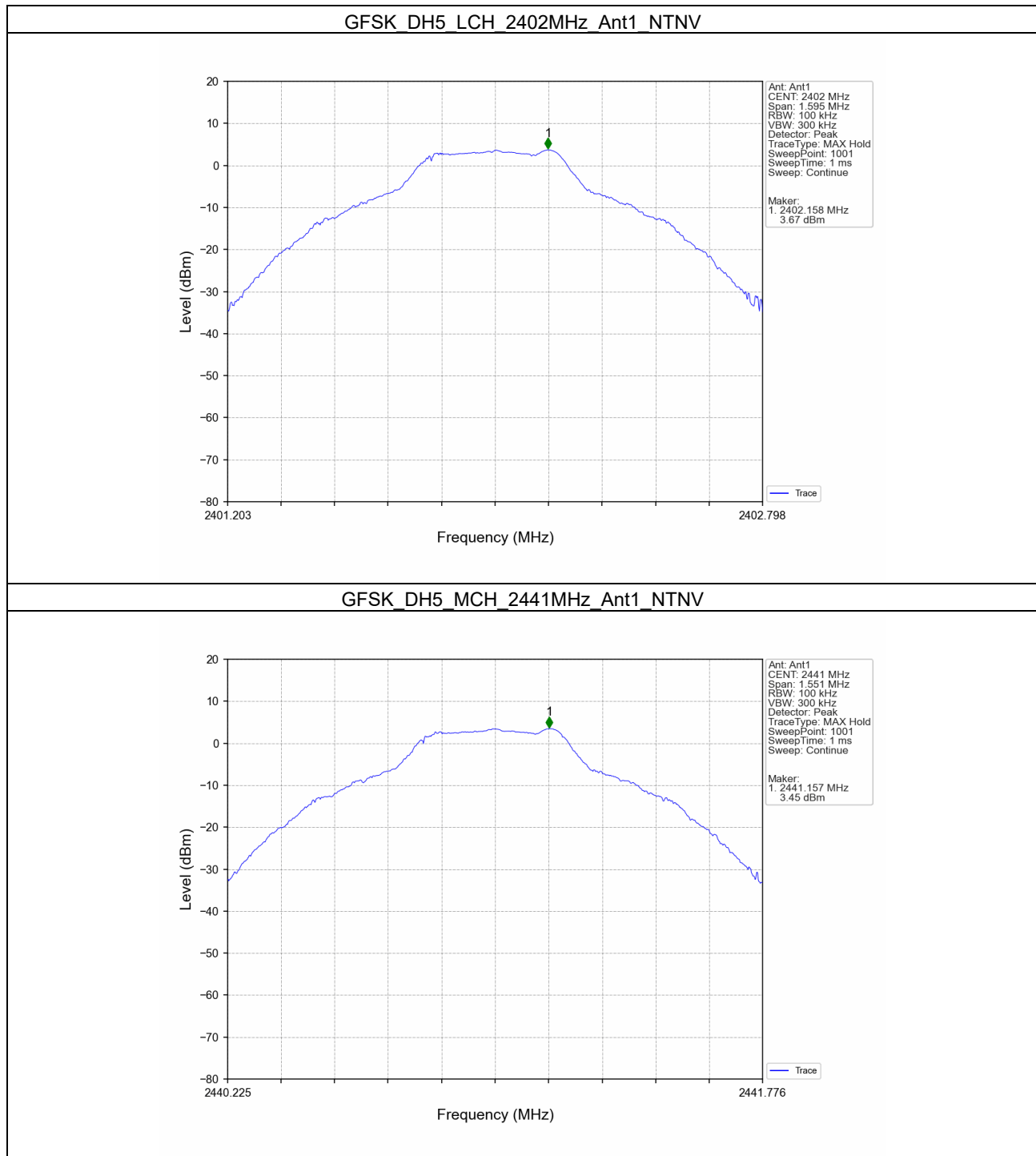
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	3.67	-16.33	Pass
		2441	DH5	1	3.67	-16.33	Pass
		2480	DH5	1	3.67	-16.33	Pass
		HOPP	DH5	1	3.67	-16.33	Pass
					3.67	-16.33	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	5.12	-14.88	Pass
		2441	2DH5	1	5.12	-14.88	Pass
		2480	2DH5	1	5.12	-14.88	Pass
		HOPP	2DH5	1	5.12	-14.88	Pass
					5.12	-14.88	Pass
8DPSK	SISO	2402	3DH5	1	5.15	-14.85	Pass
		2441	3DH5	1	5.15	-14.85	Pass
		2480	3DH5	1	5.15	-14.85	Pass
		HOPP	3DH5	1	5.15	-14.85	Pass
					5.15	-14.85	Pass

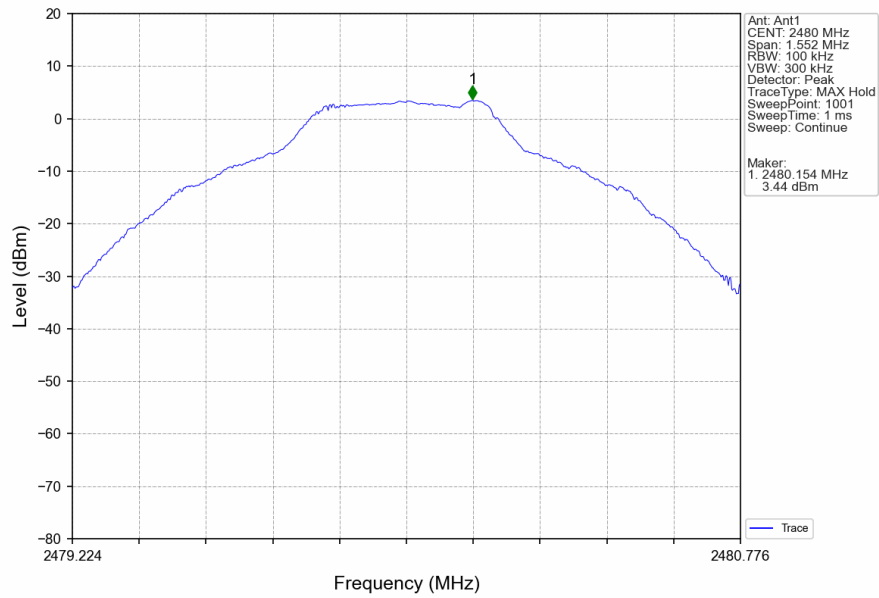
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

6.2 Test Graph

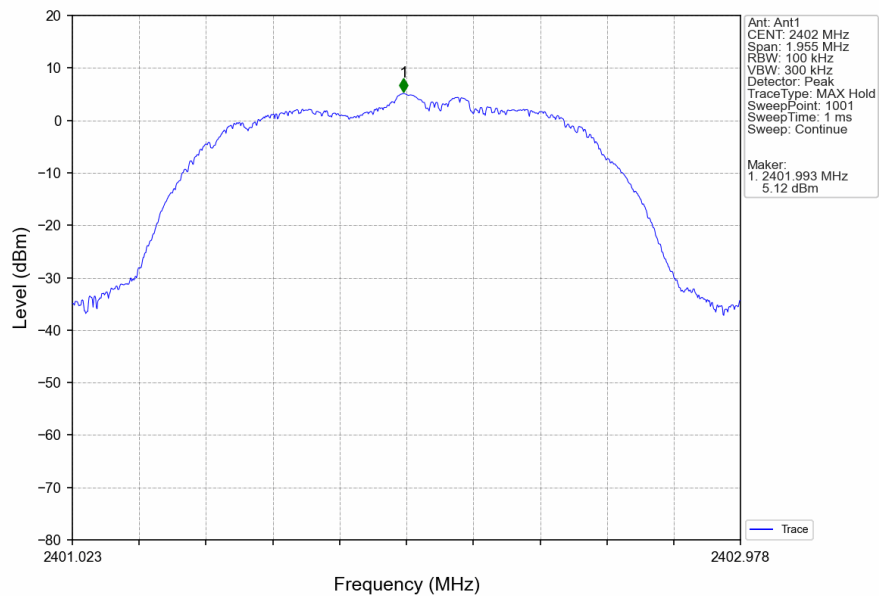
6.2.1 Ref



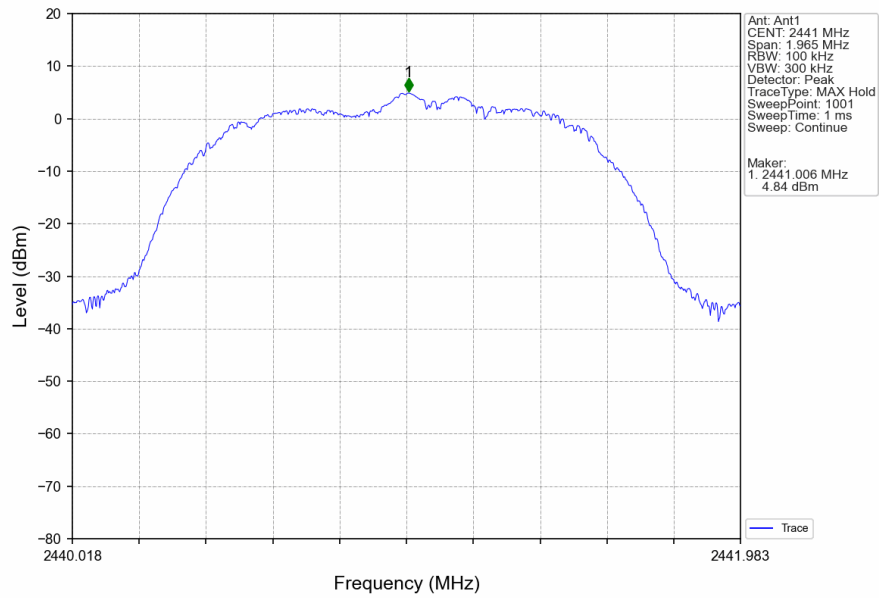
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



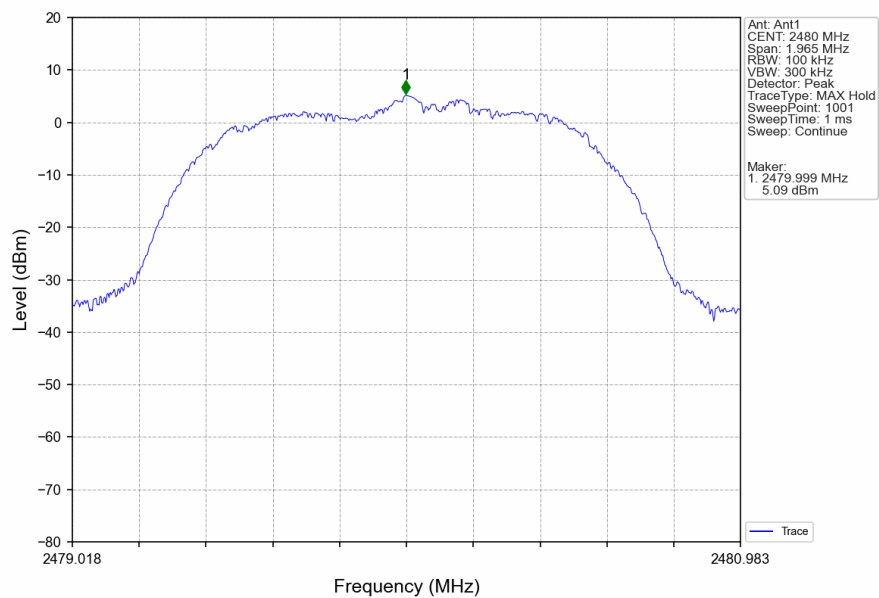
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



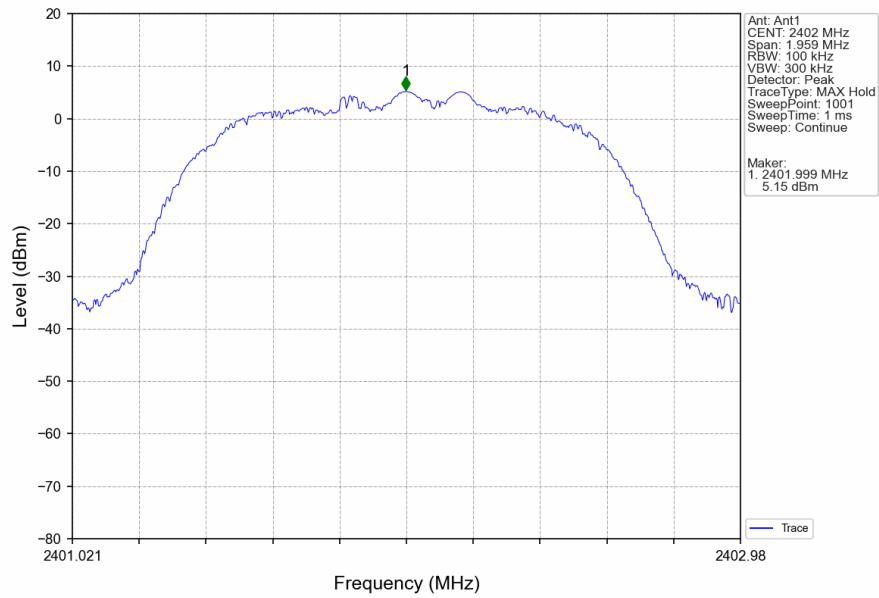
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



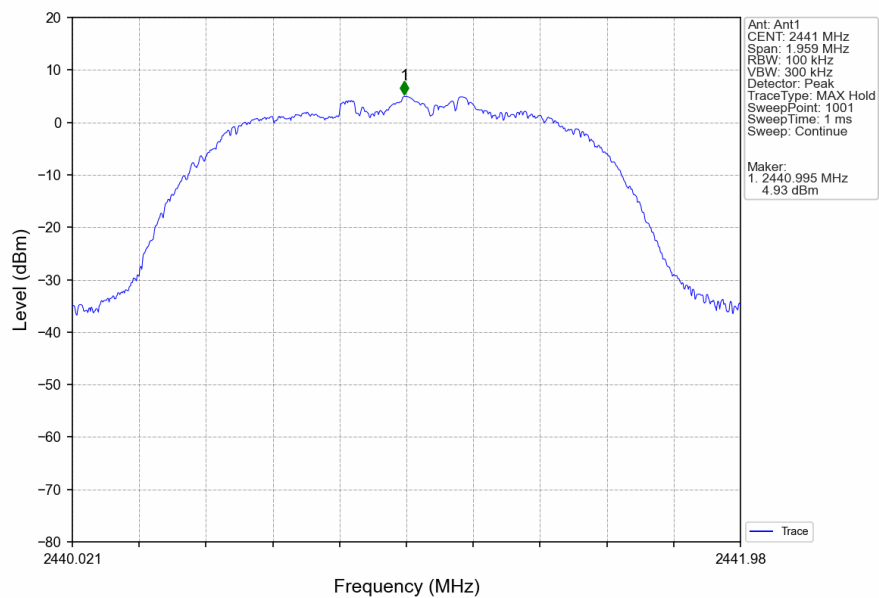
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



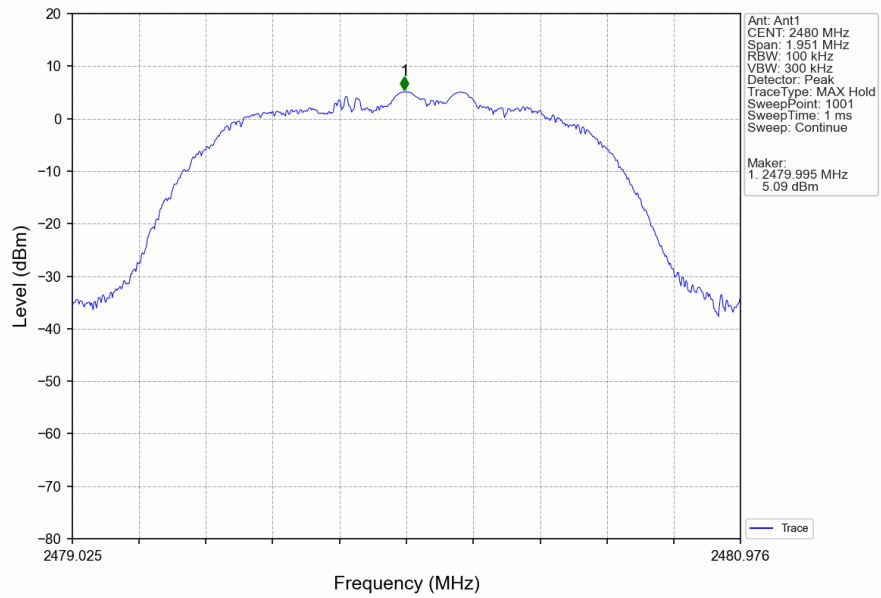
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

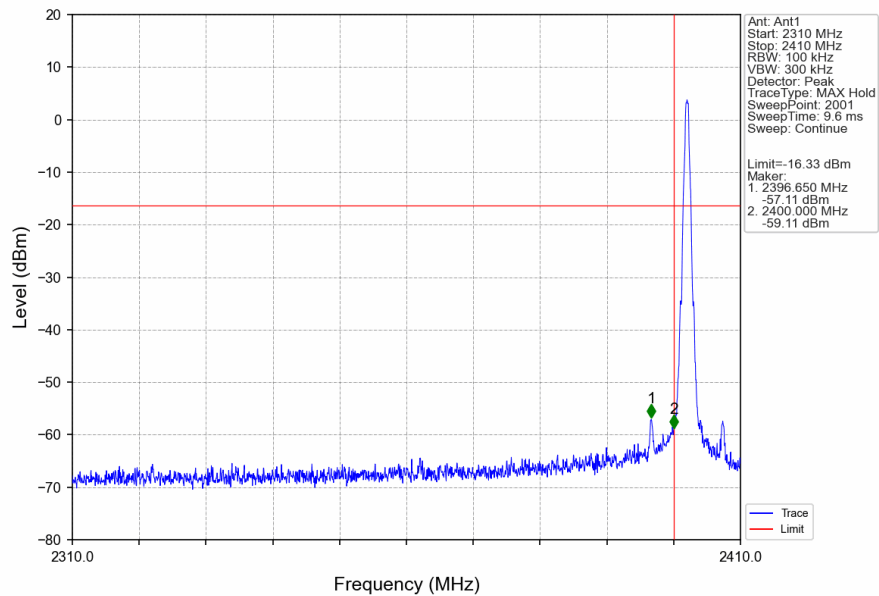


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

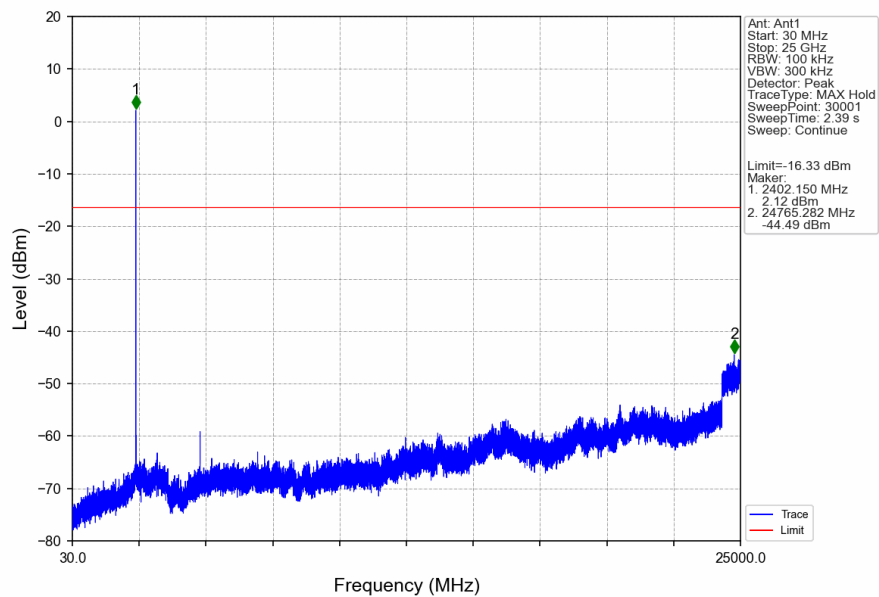


6.2.2 CSE

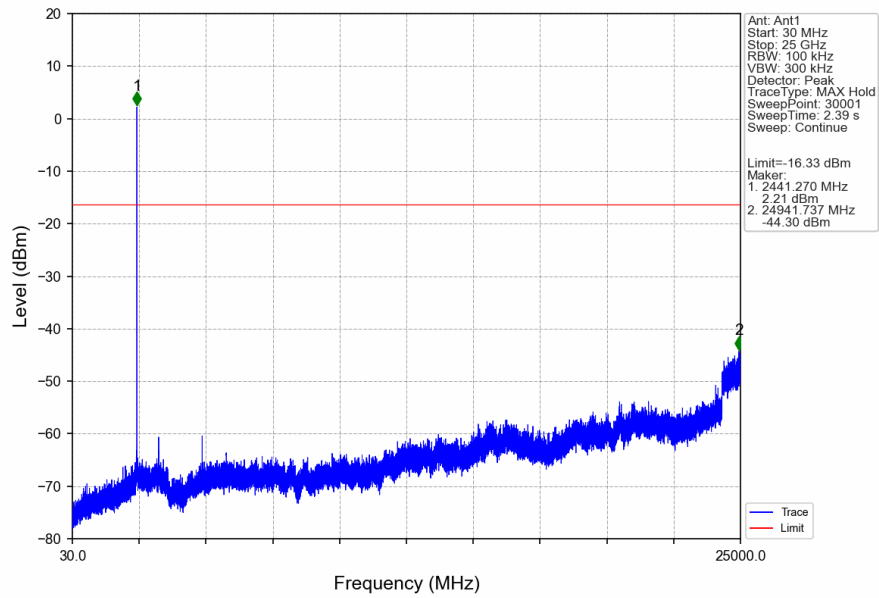
GFSK DH5 LCH 2402MHz Ant1 NTN



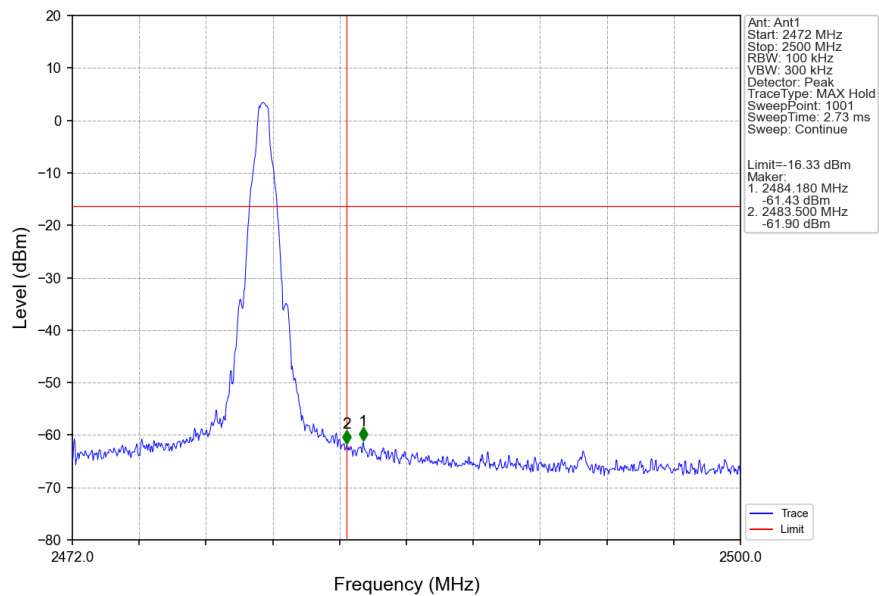
GFSK DH5 LCH 2402MHz Ant1 NTN



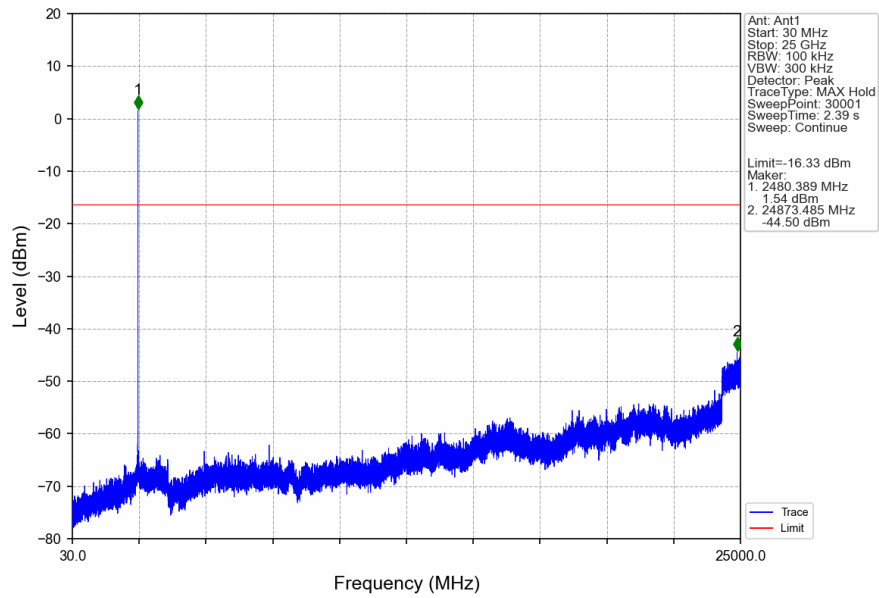
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



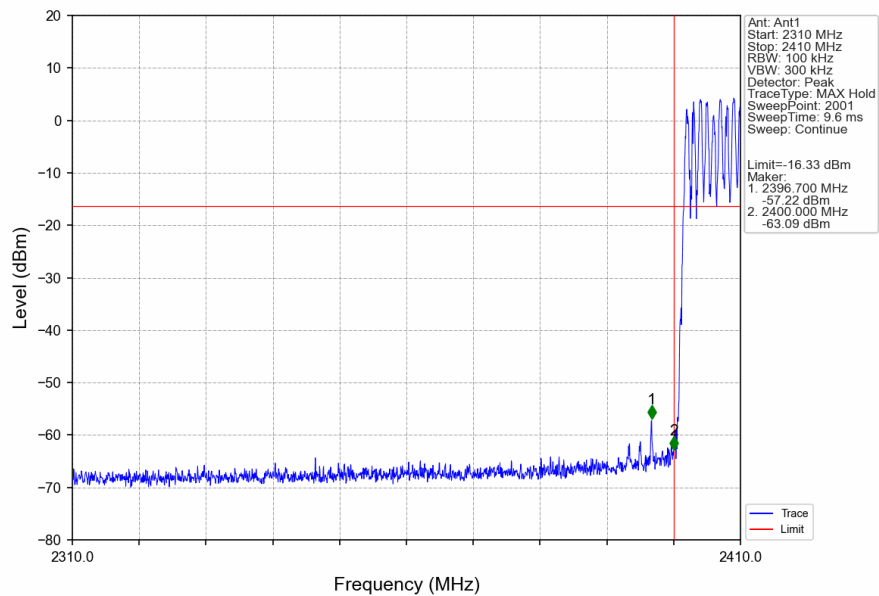
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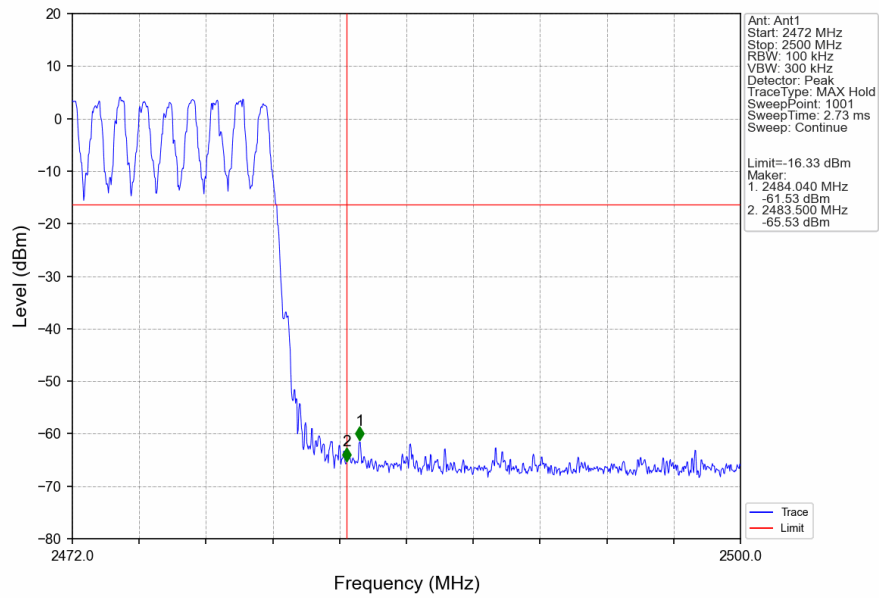
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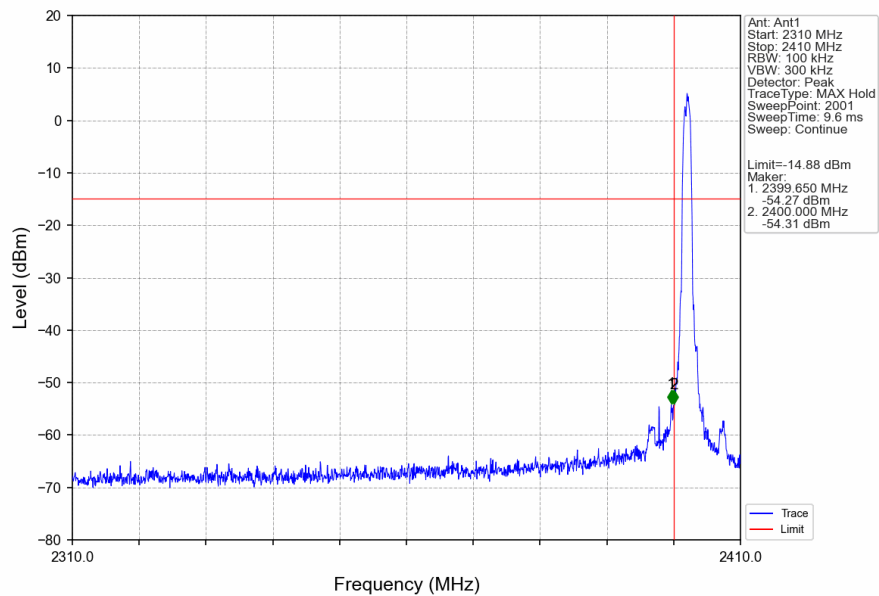
GFSK_DH5_HOPP_Ant1_NTNV



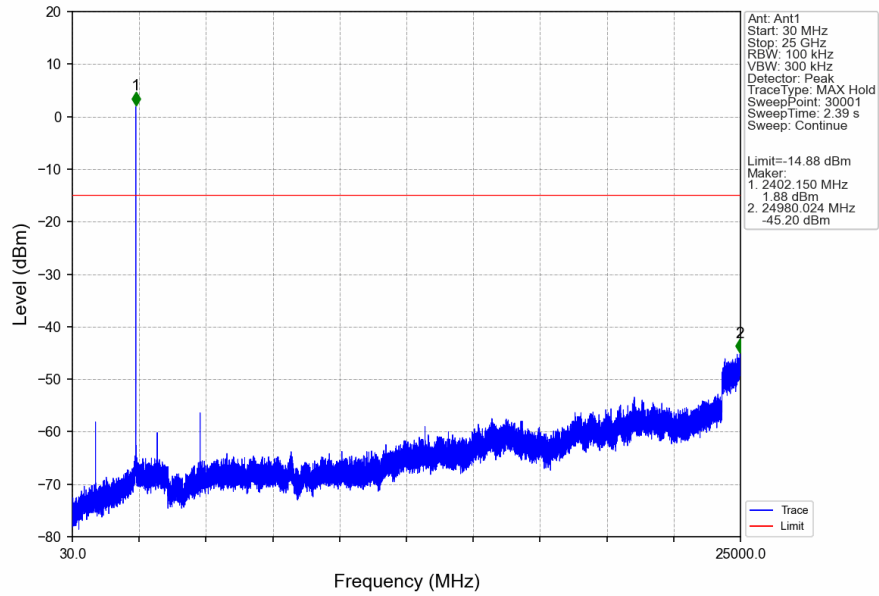
GFSK DH5 HOPP Ant1 NTN



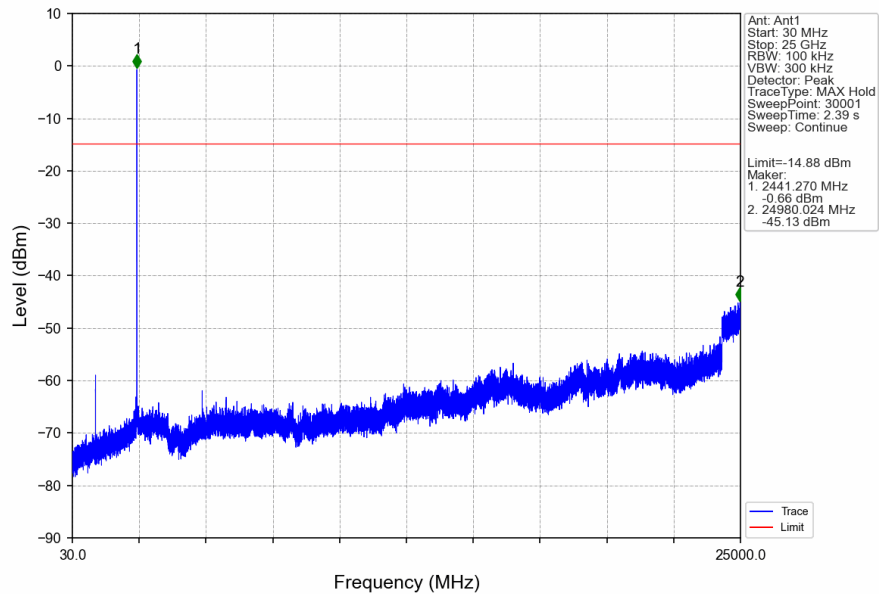
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



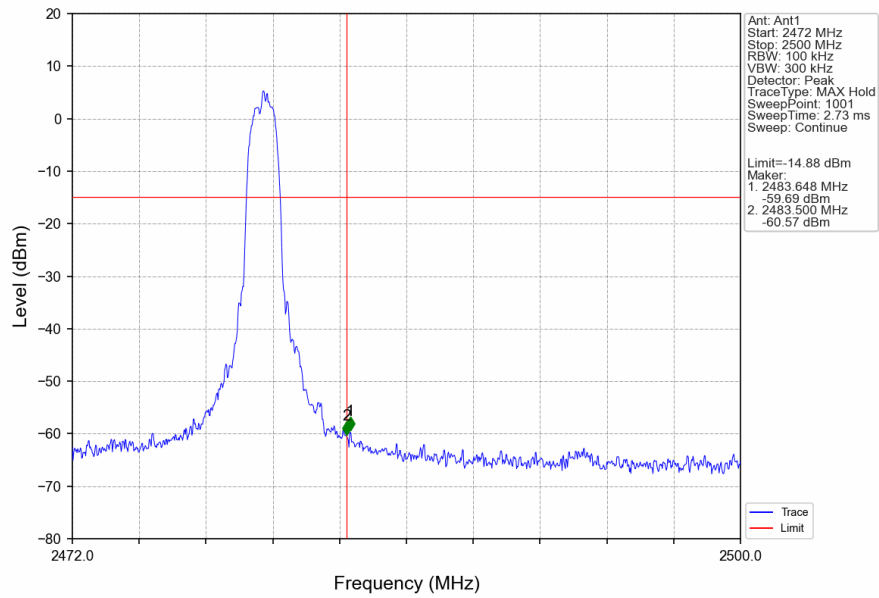
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



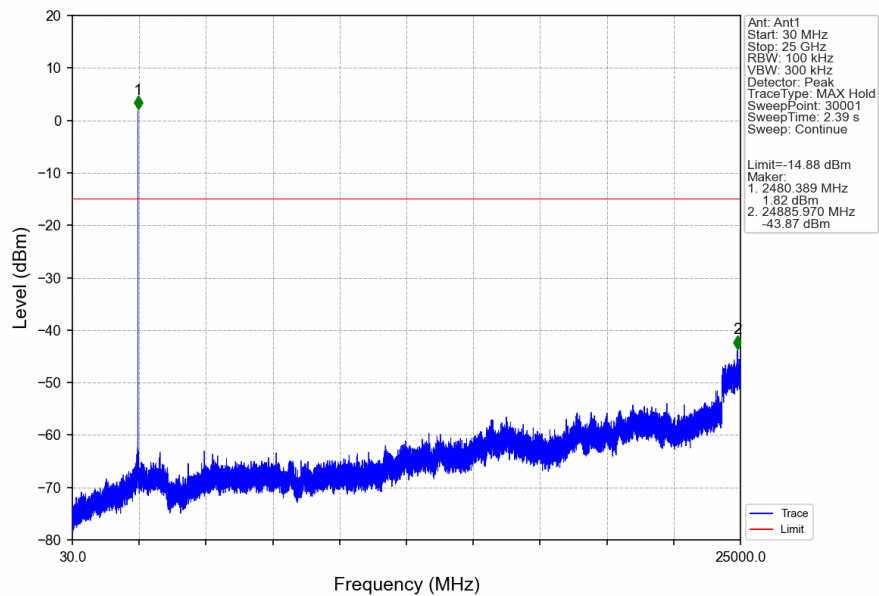
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



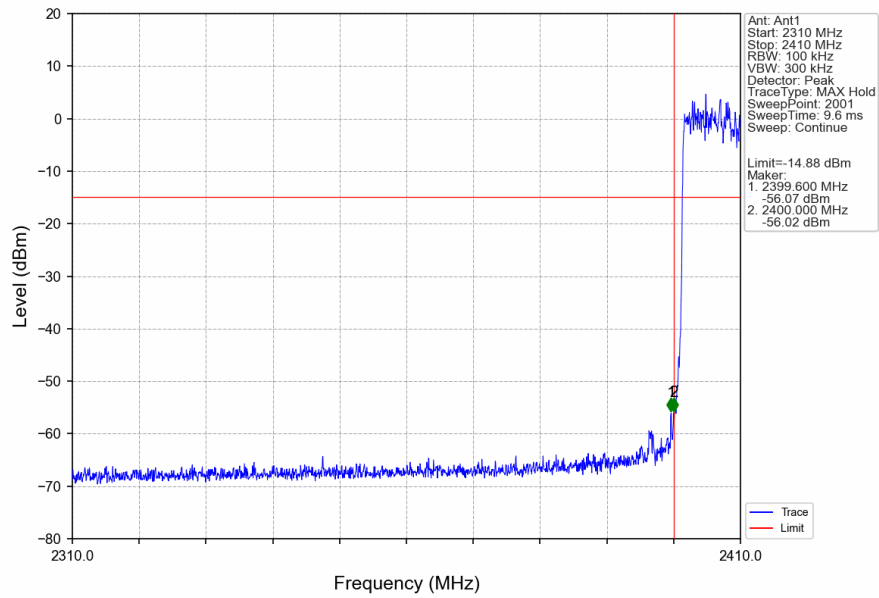
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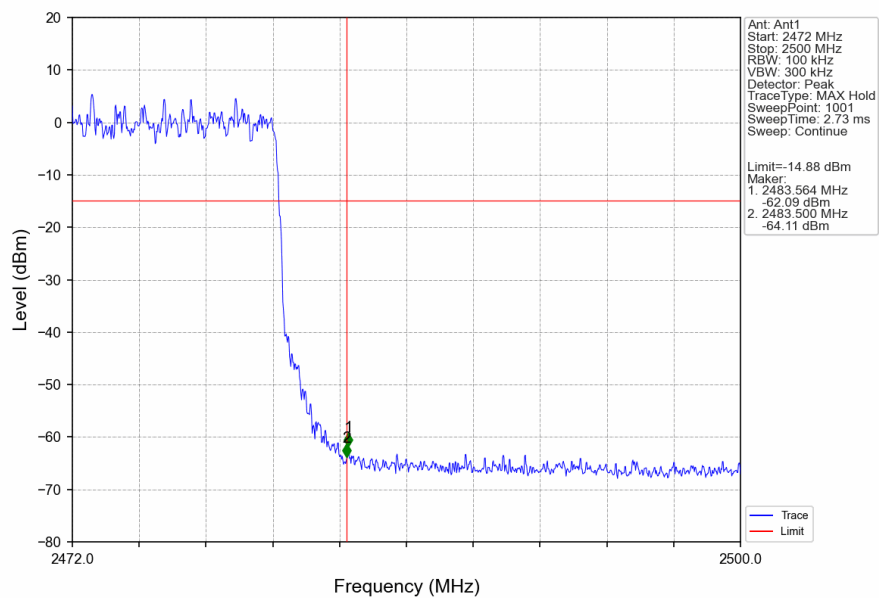
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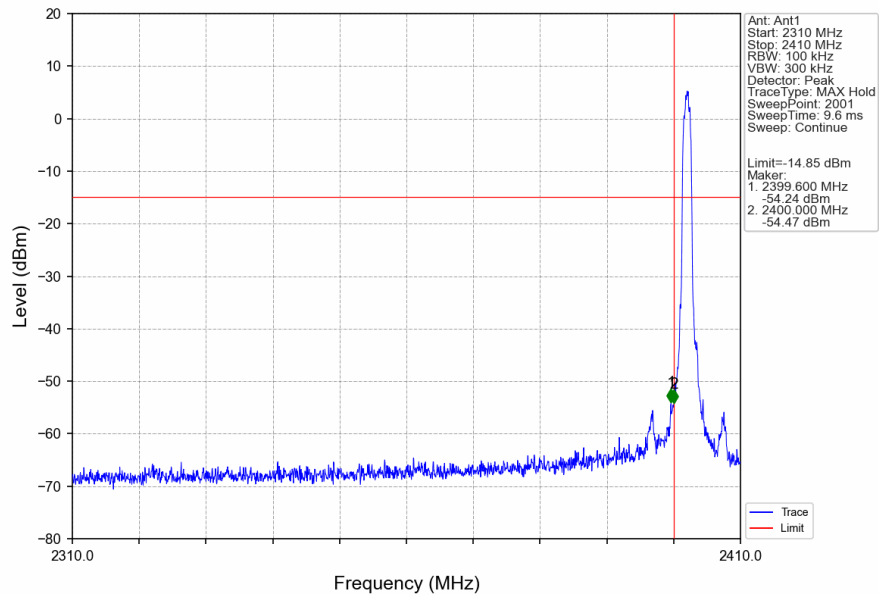
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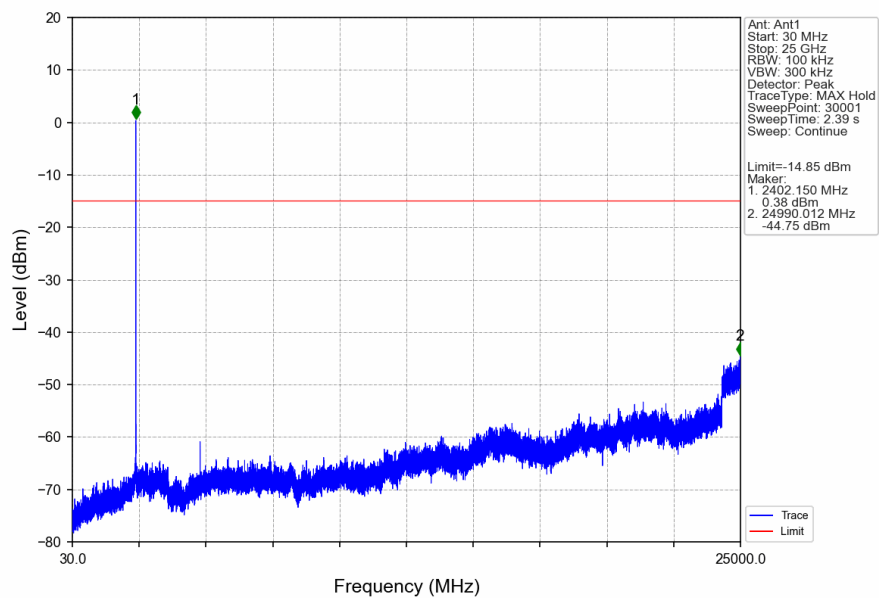
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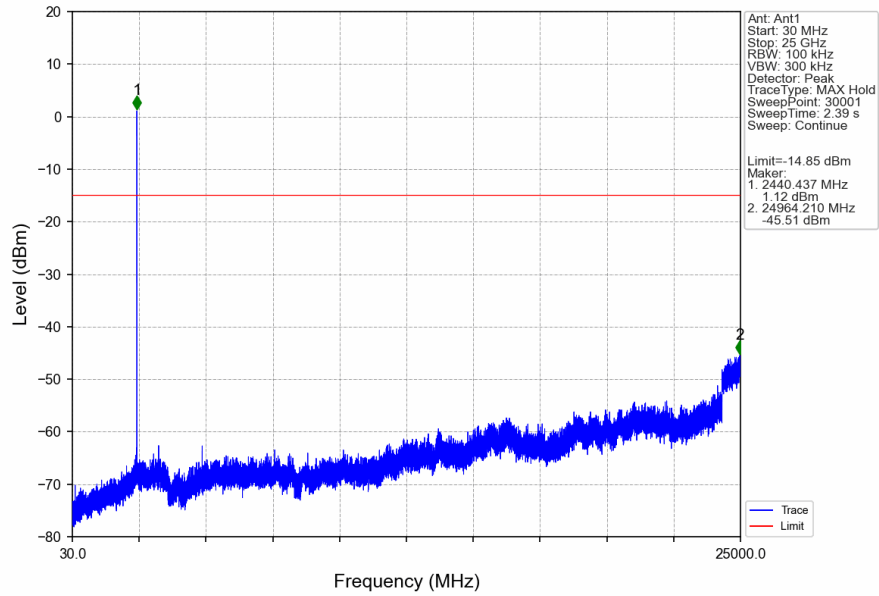
8DPSK 3DH5 LCH 2402MHz Ant1 NTNV



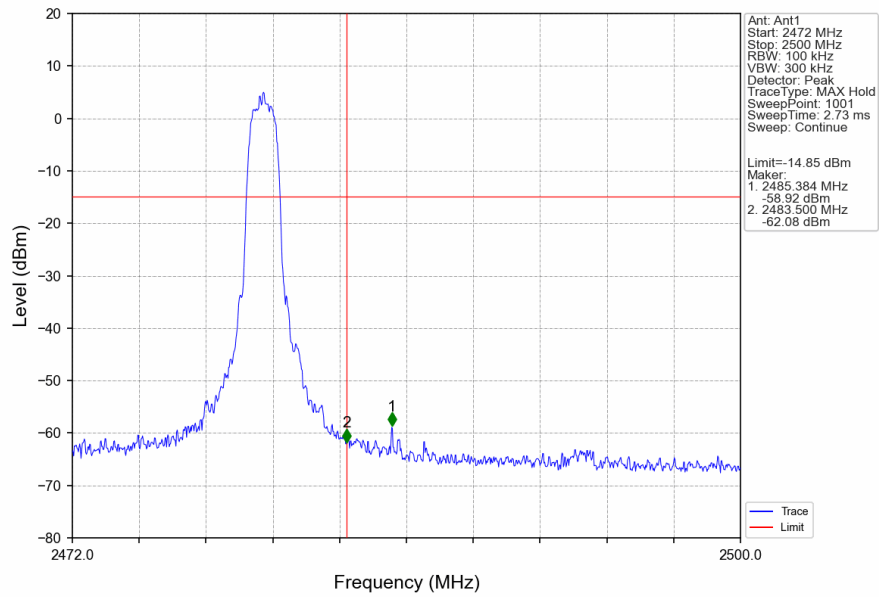
8DPSK 3DH5 LCH 2402MHz Ant1 NTNV



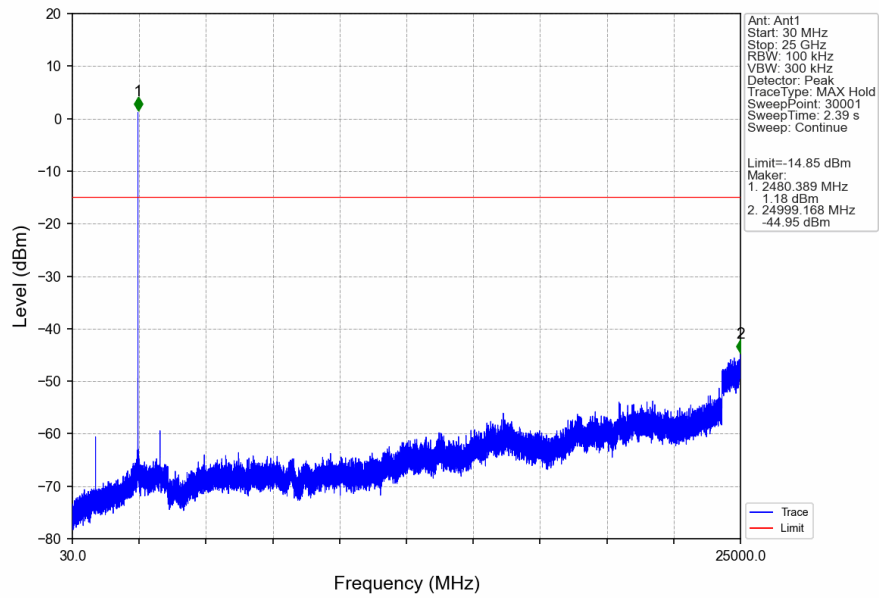
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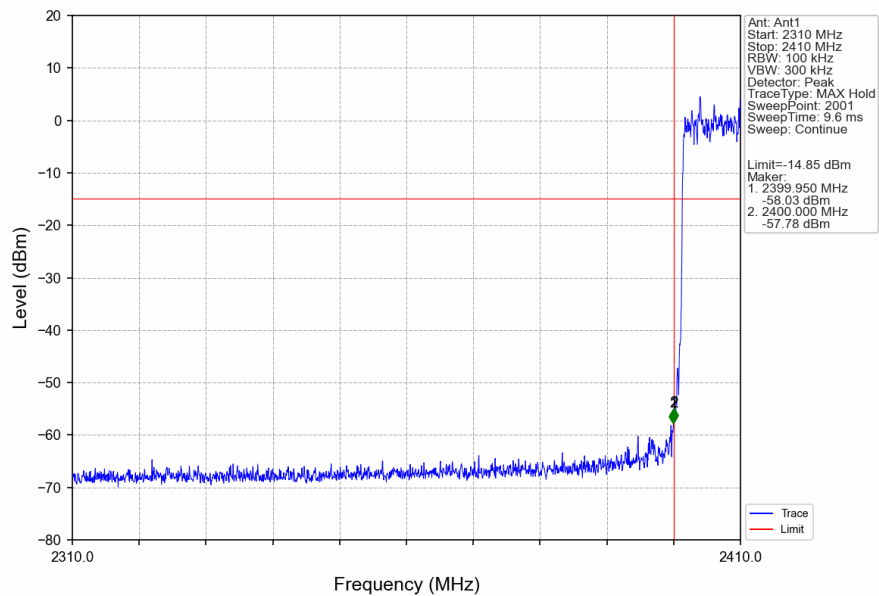
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



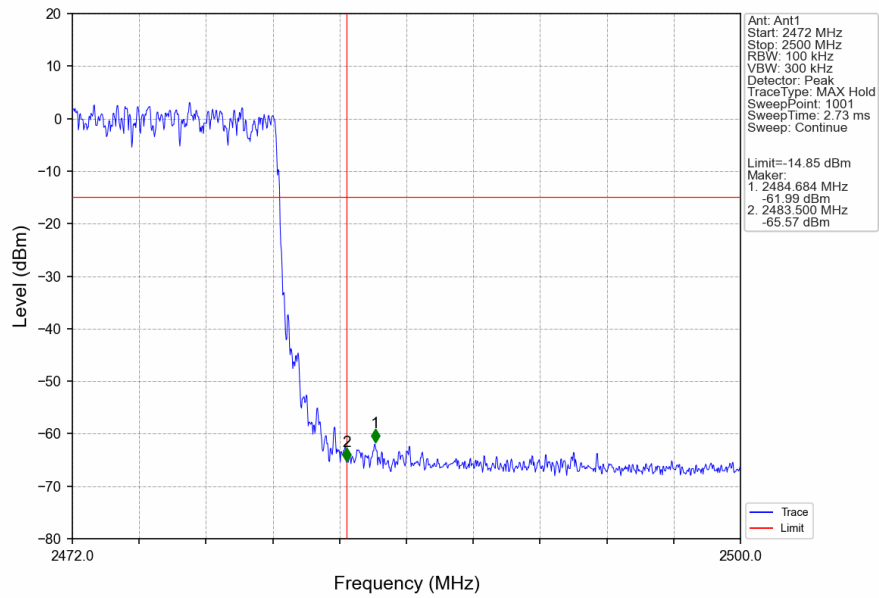
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8DPSK_3DH5_HOPP_Ant1_NTNV

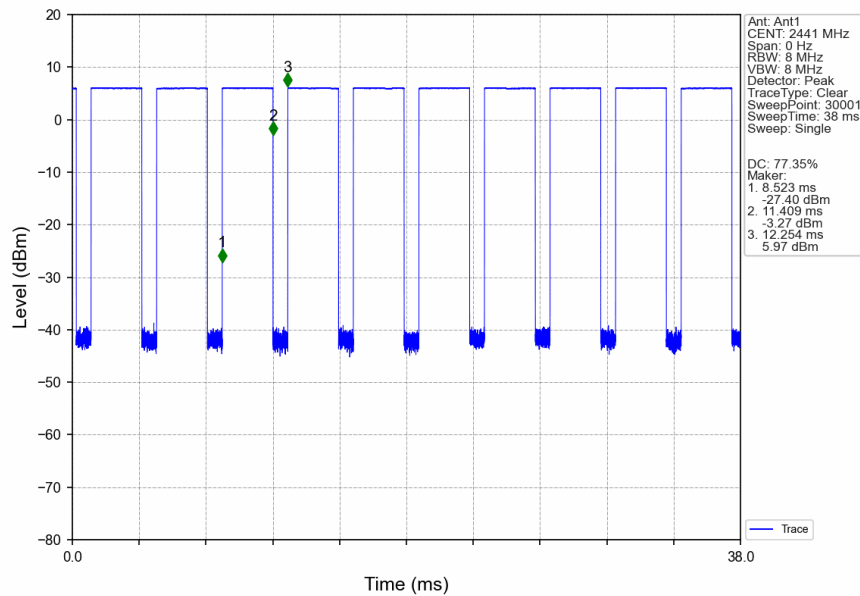


8DPSK 3DH5_HOPP_Ant1_NTNV

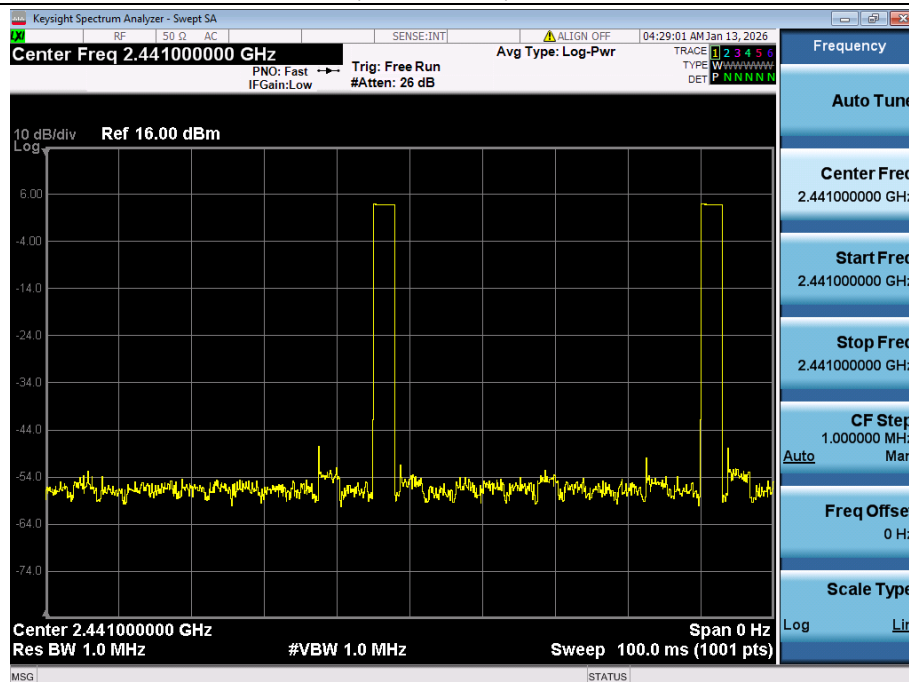


7. Duty Cycle Plots

DH5 on time(One Pules)Plot on channel 0



DH5 on time(Count Pulses)Plot on channel 39



8. The process and drawings of RSE-AVG

Ant1							
Test Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	1.063	≥ 0.709	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.310	≥ 0.873	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.306	≥ 0.871	Pass

Note:

Channel separation correction

DH5: Channel Separation ≥ 1 MHz, Channel separation correction=1

2DH5: Channel Separation ≥ 1 MHz, Channel separation correction=1

3DH5: Channel Separation ≥ 1 MHz, Channel separation correction=1

Overlapping channel correction

DH5: Overlapping channel correction = 1

2DH5: Overlapping channel correction = 1

3DH5: Overlapping channel correction = 1

Test mode	Dwell time per 100 ms	Channel separation correction	Overlapping channel correction	Maximum dwell time
DH5	$2 \times 2.886 = 5.772$	1	1	11.544
2DH5	$2 \times 2.889 = 5.778$	1	1	11.556
3DH5	$2 \times 2.892 = 5.784$	1	1	11.568

Note: Maximum dwell time per 1MHz= Dwell time per 100 ms per Channel*(Channel separation correction+ Overlapping channel correction)

Test Mode	Factor
DH5	-18.75
2DH5	-18.74
3DH5	-18.73

Factor= $20 \times \log(\text{Maximum dwell time in 100 ms}/100)$

- End of the Report -