

10 Appendix

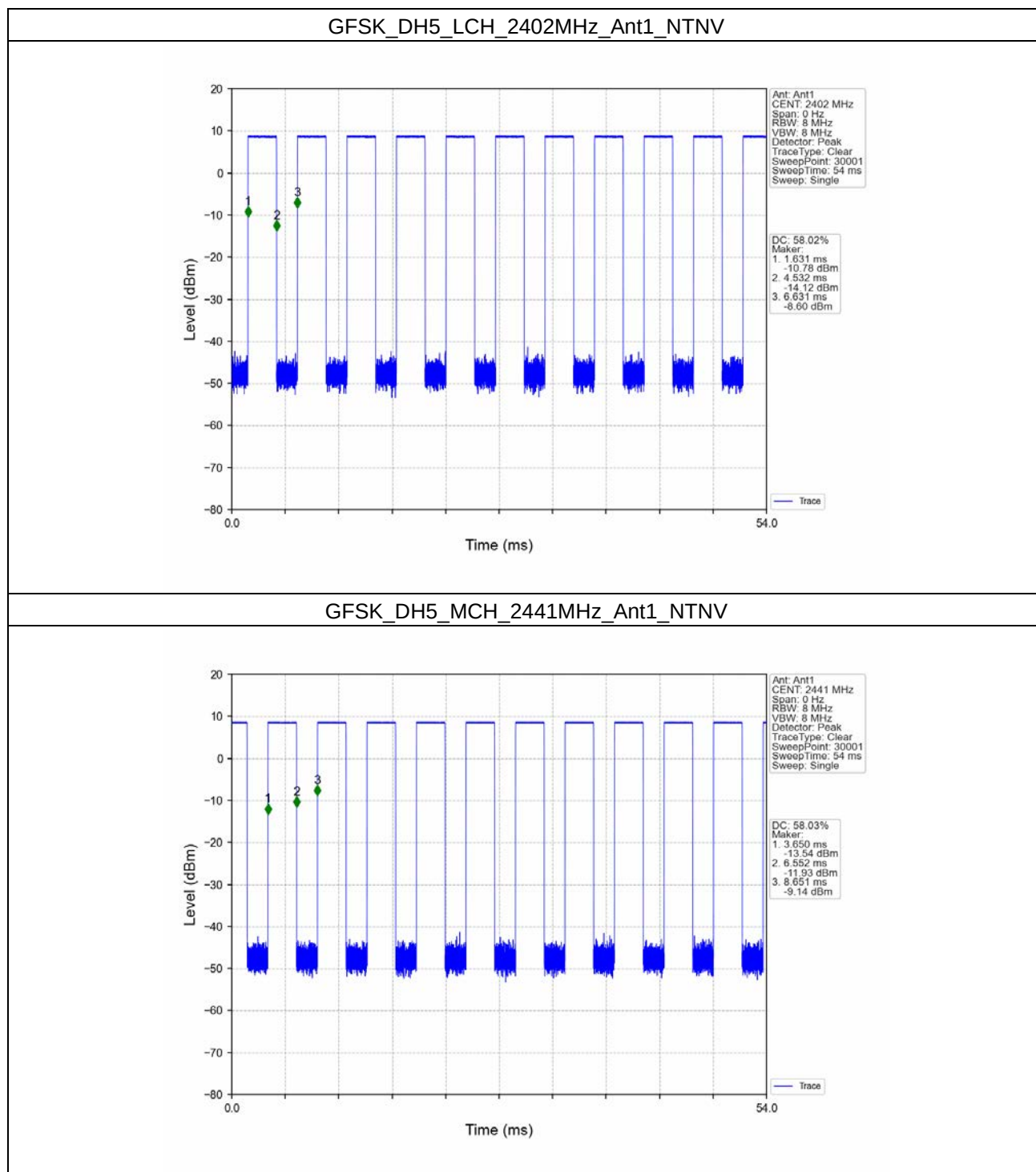
1. Duty Cycle

1.1 Ant1

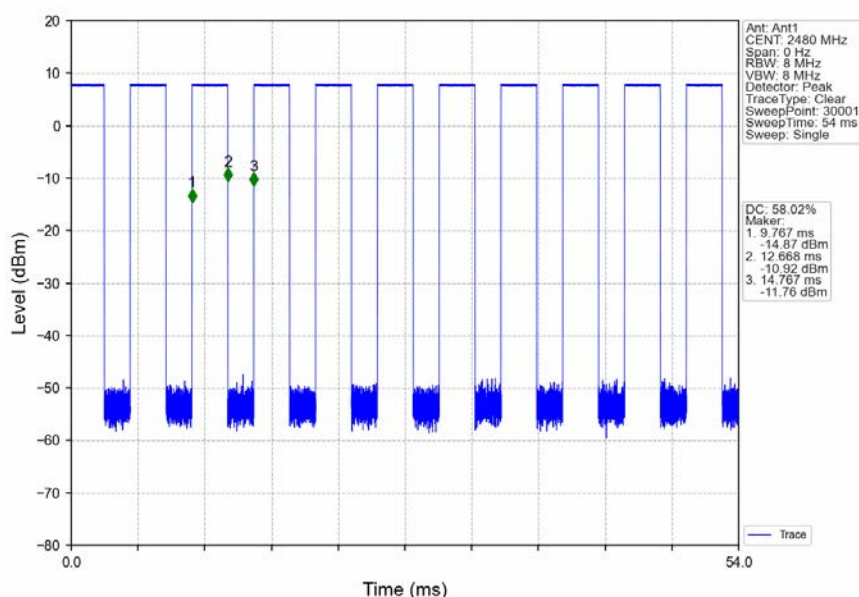
1.1.1 Test Result

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	2402	DH5	2.901	5.000	58.02	2.36	0.04
		2441	DH5	2.902	5.001	58.03	2.36	0.04
		2480	DH5	2.901	5.000	58.02	2.36	0.04
Pi/4DQPSK	SISO	2402	2DH5	2.907	4.999	58.15	2.35	0.02
		2441	2DH5	2.907	4.998	58.16	2.35	0.02
		2480	2DH5	2.907	4.998	58.16	2.35	0.02
8DPSK	SISO	2402	3DH5	2.909	5.001	58.17	2.35	0.04
		2441	3DH5	2.908	5.000	58.16	2.35	0.04
		2480	3DH5	2.909	5.000	58.18	2.35	0.04

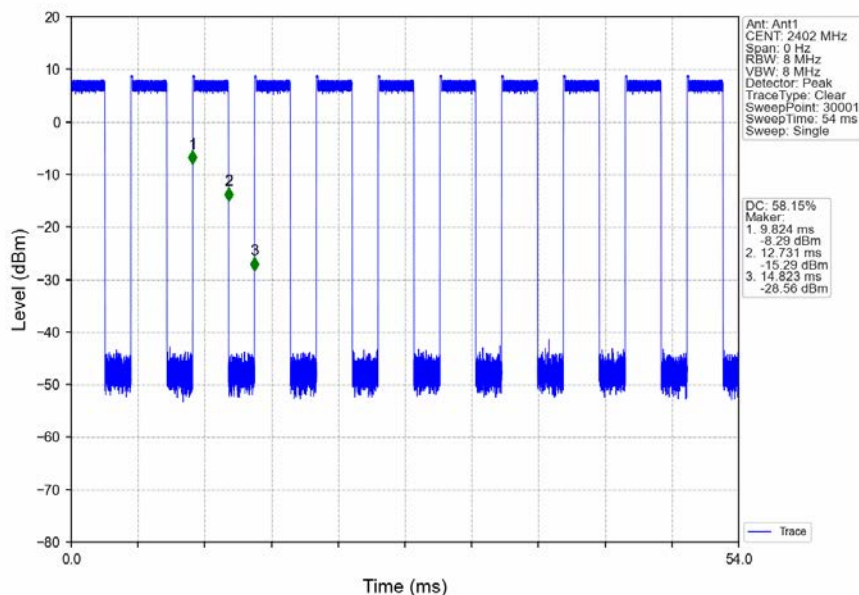
1.1.2 Test Graph



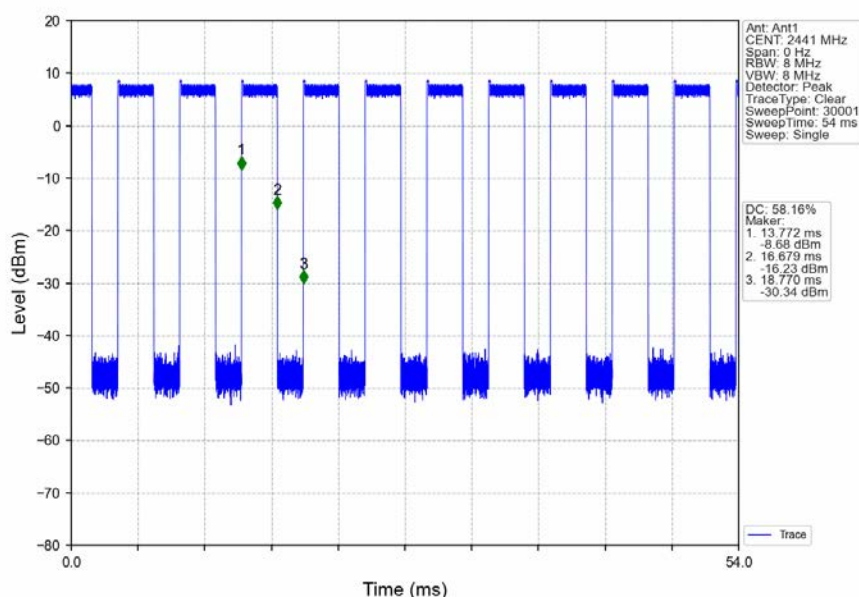
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



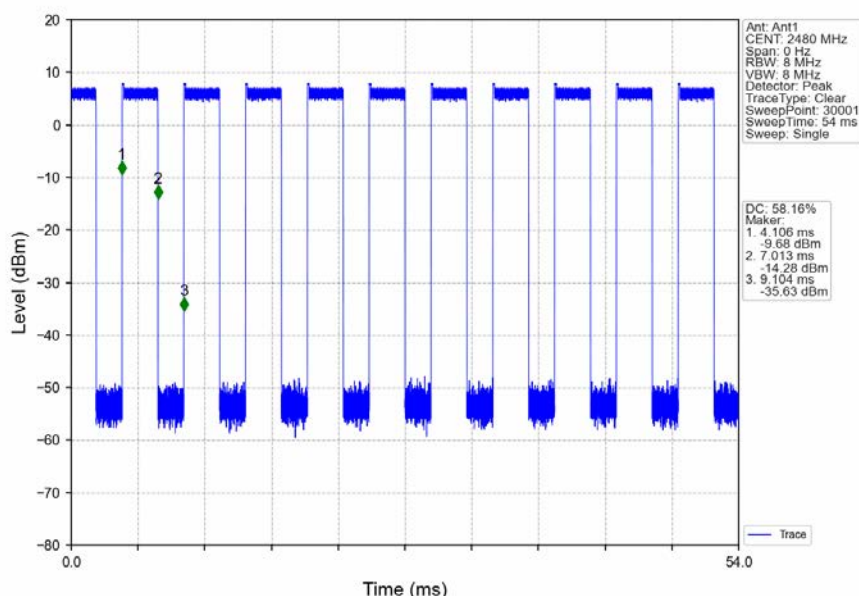
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



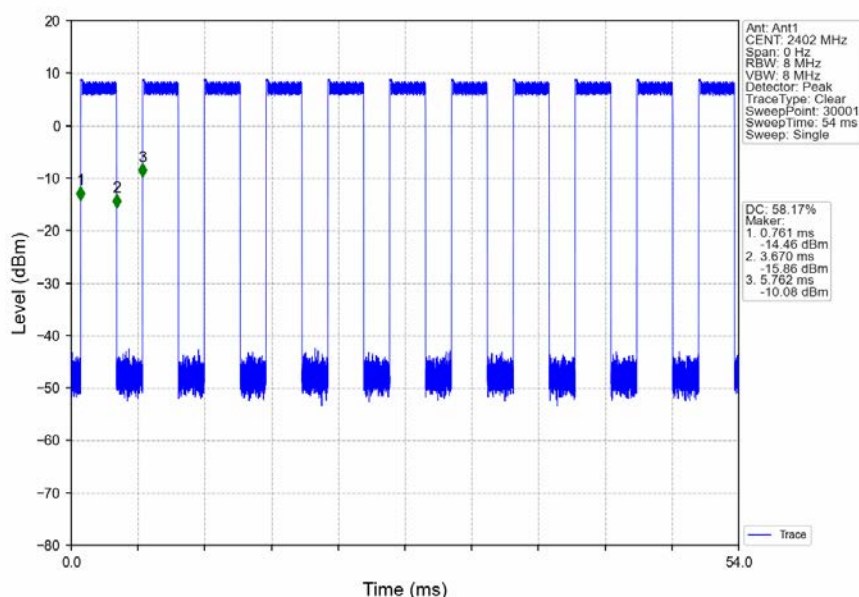
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



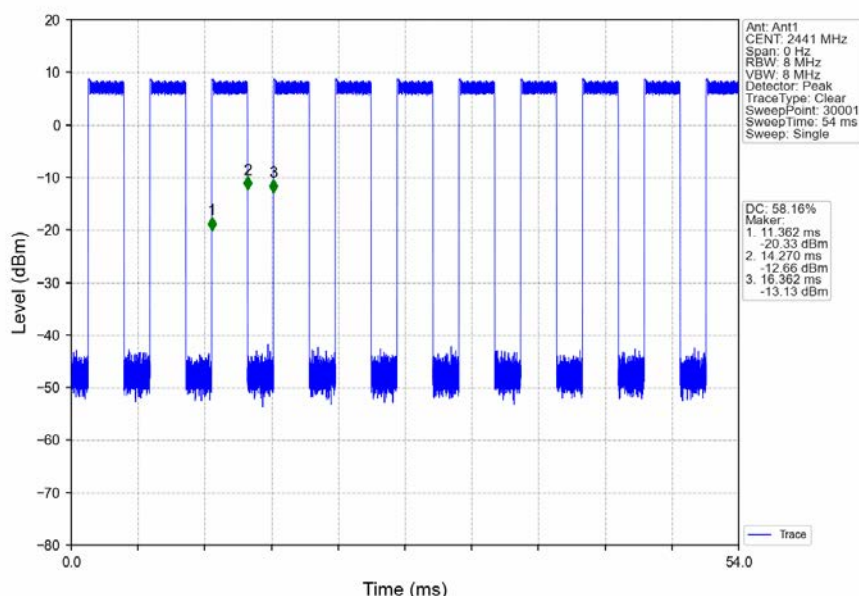
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



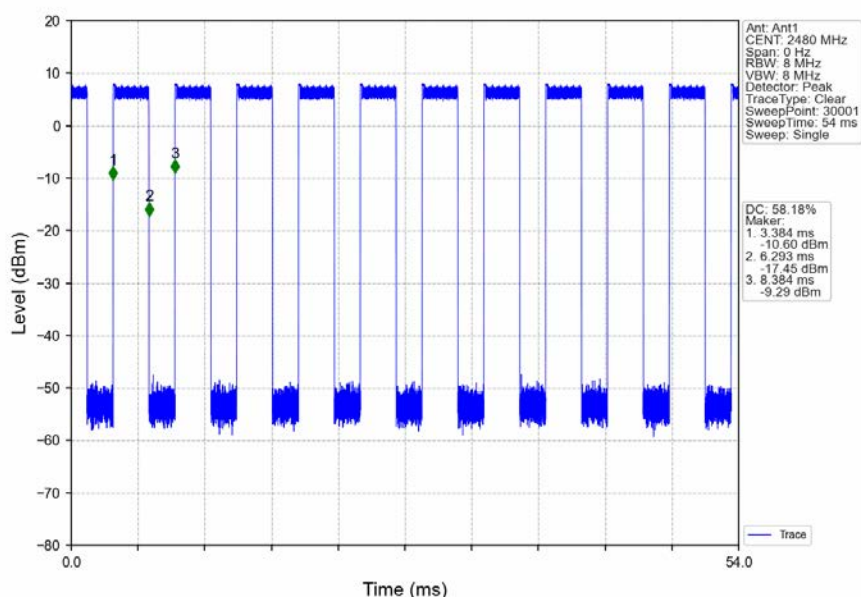
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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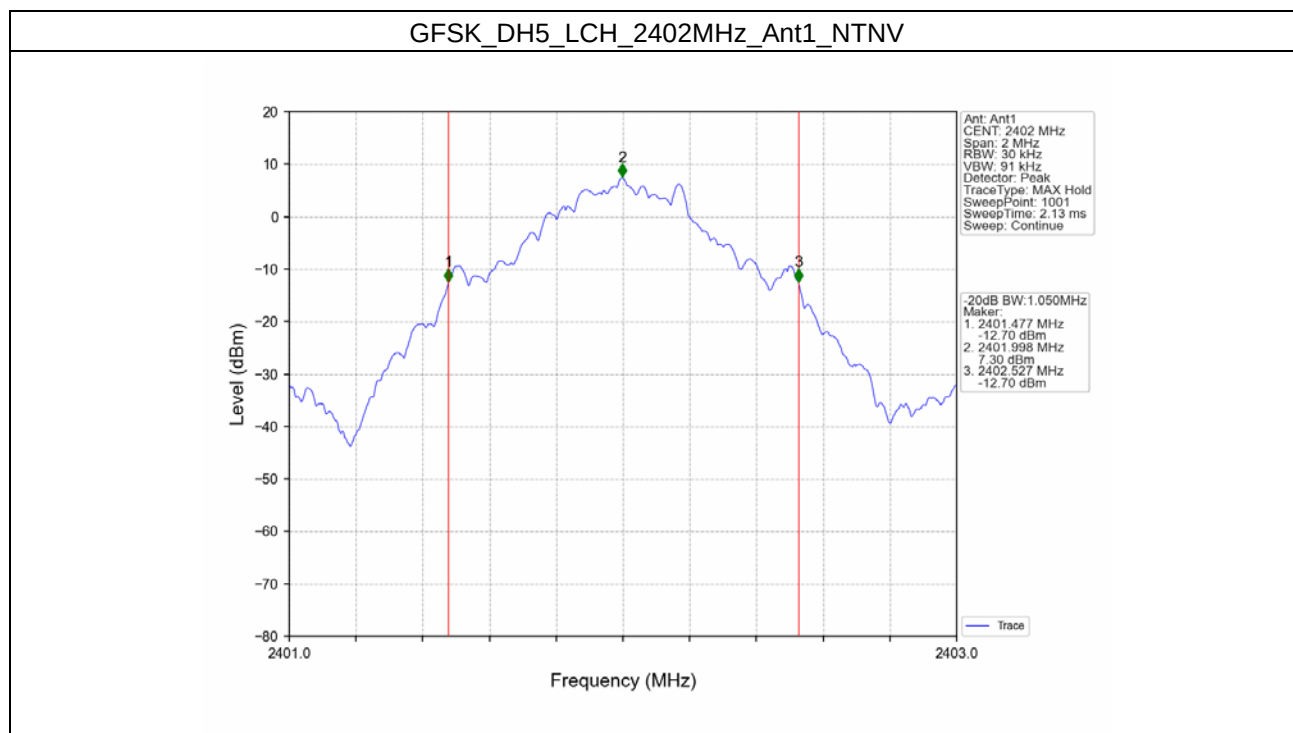
2. Bandwidth

2.1 20dB BW

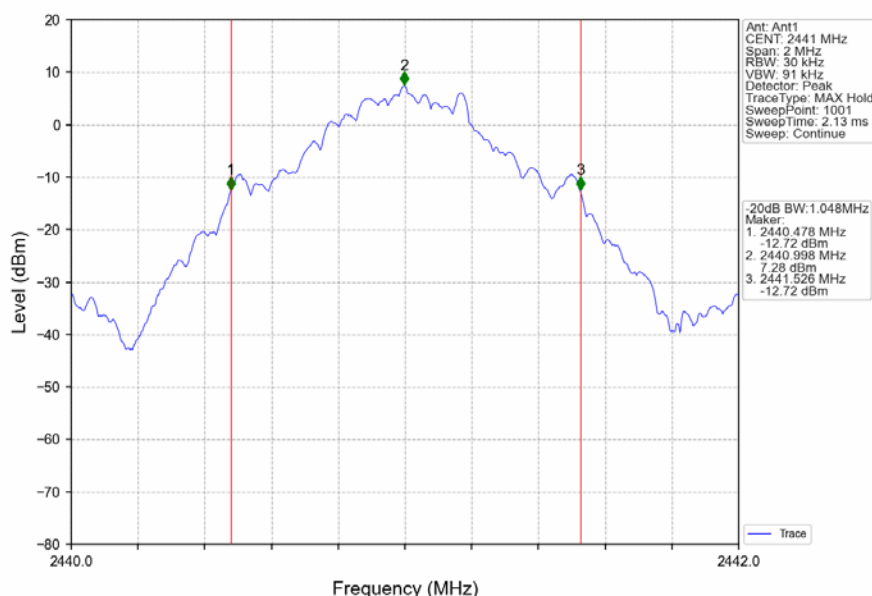
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.050	Pass
		2441	DH5	1	1.048	Pass
		2480	DH5	1	1.052	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.217	Pass
		2441	2DH5	1	1.215	Pass
		2480	2DH5	1	1.212	Pass
8DPSK	SISO	2402	3DH5	1	1.238	Pass
		2441	3DH5	1	1.238	Pass
		2480	3DH5	1	1.238	Pass

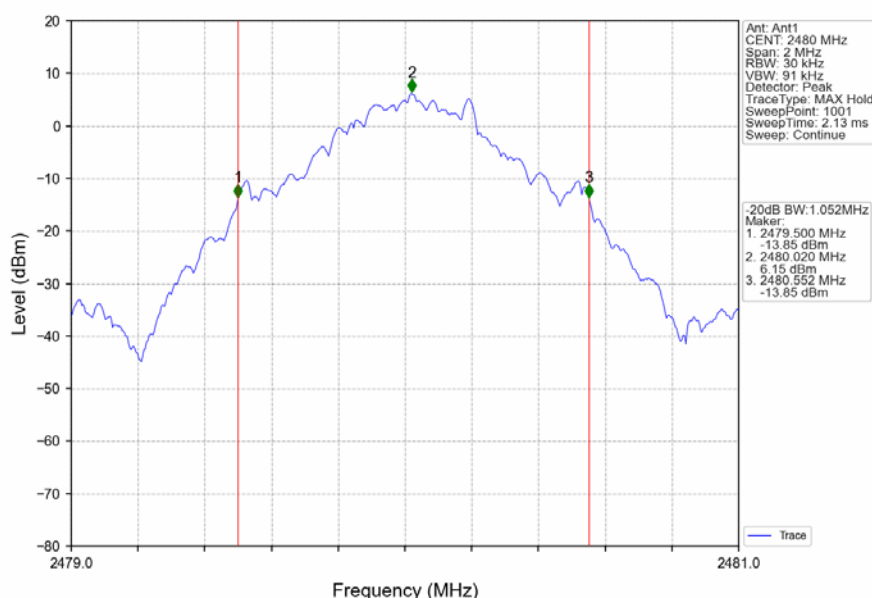
2.2.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



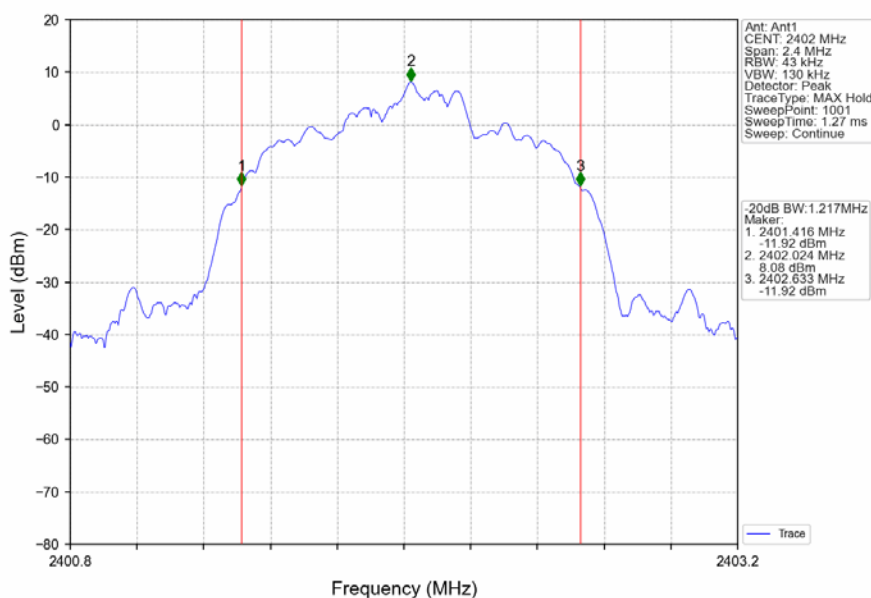
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



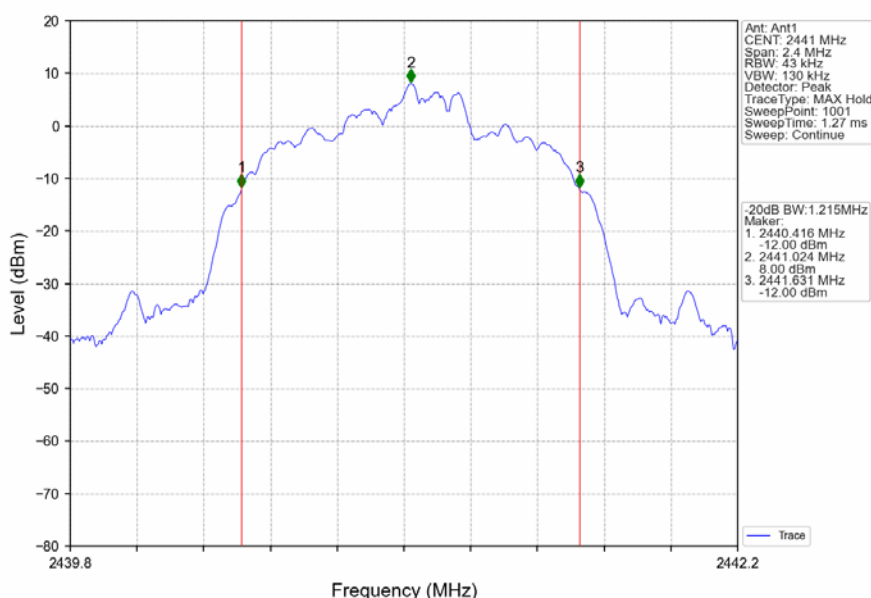
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



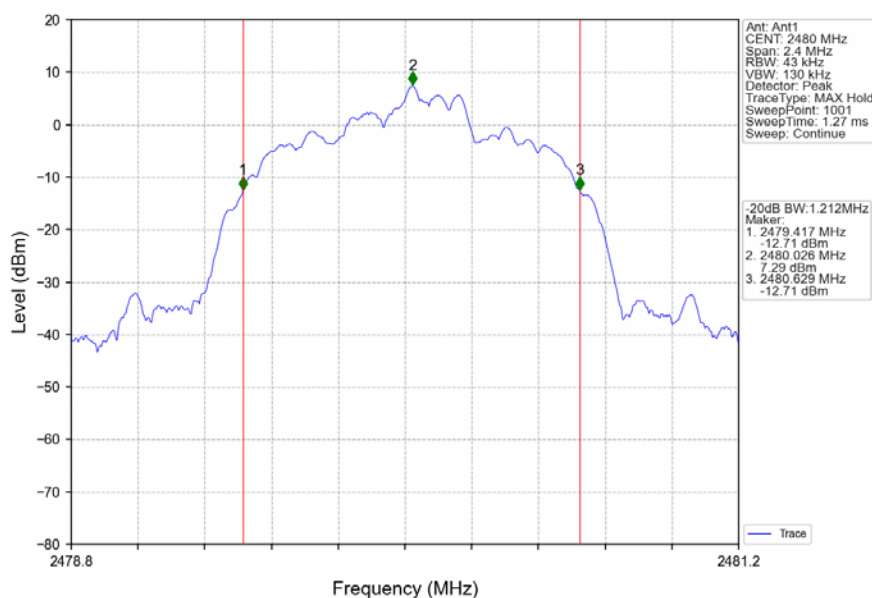
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



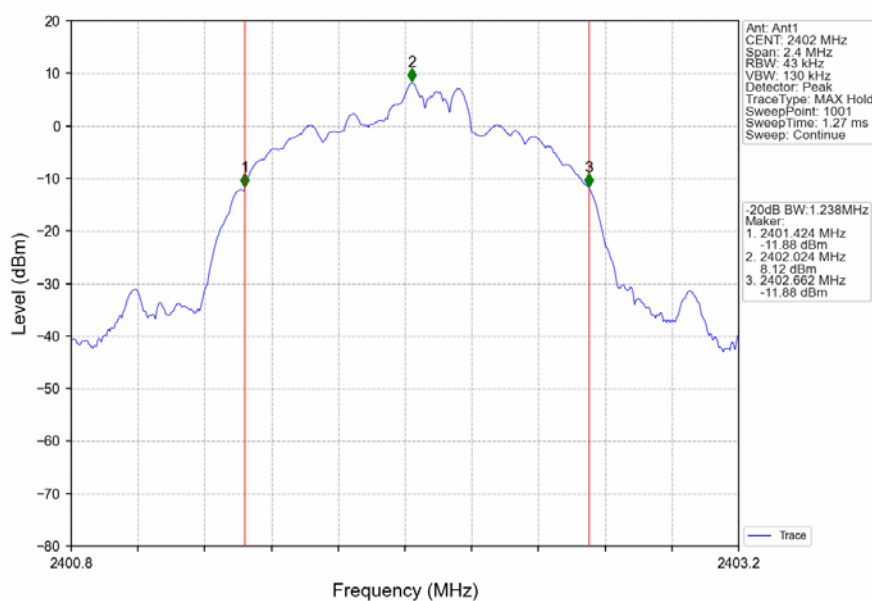
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



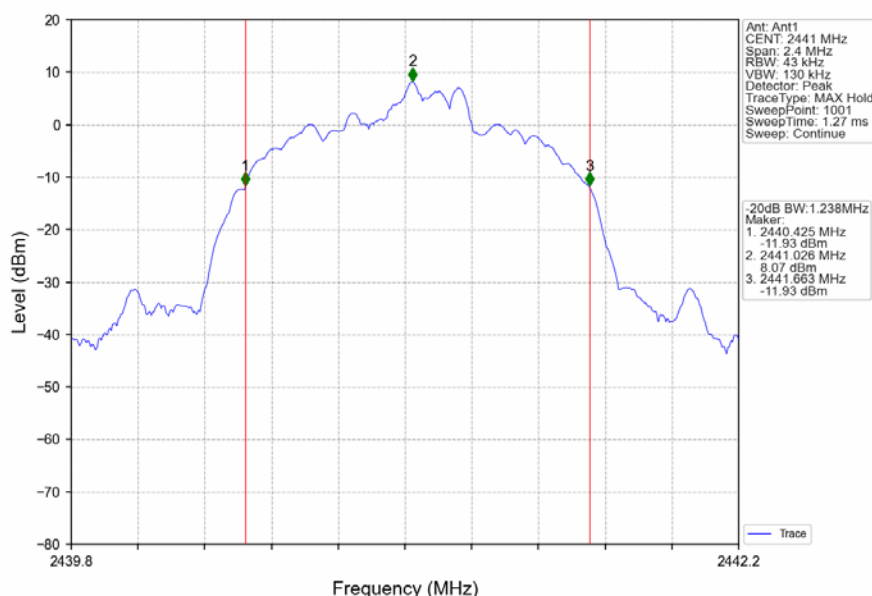
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

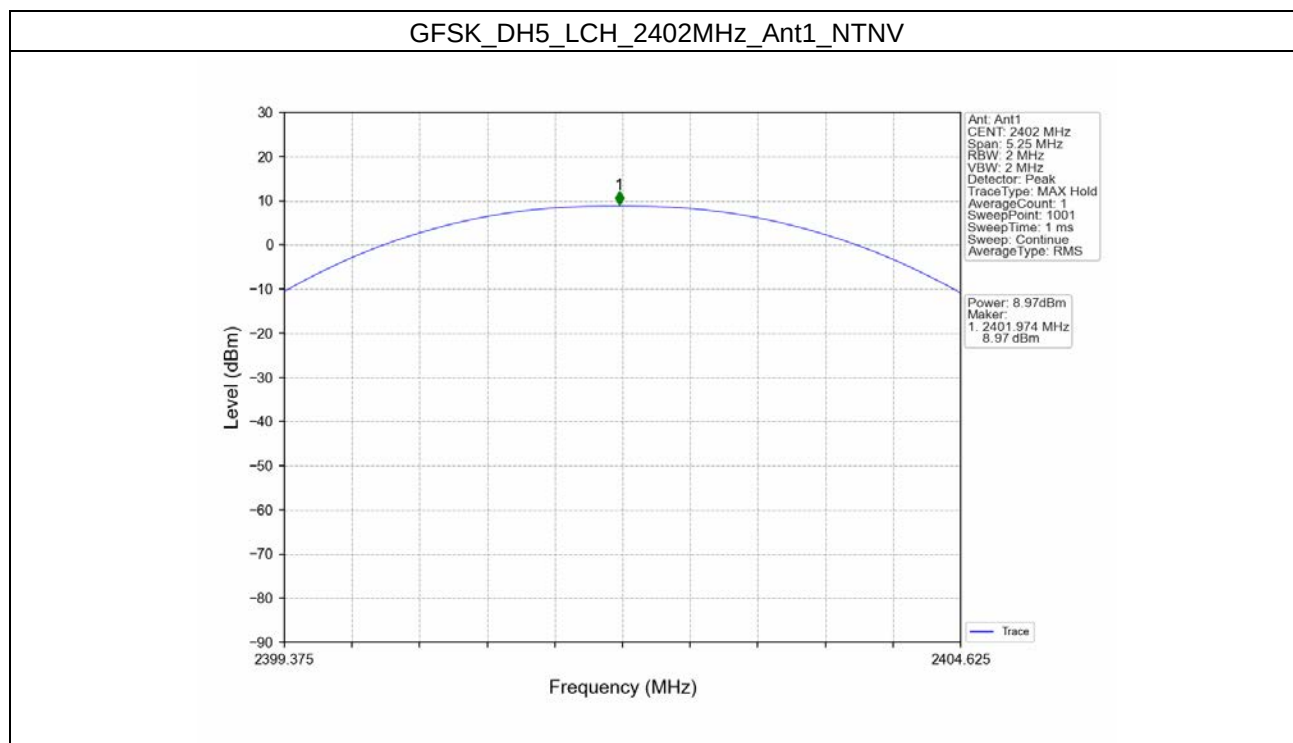
3.1 Power

3.1.1 Test Result

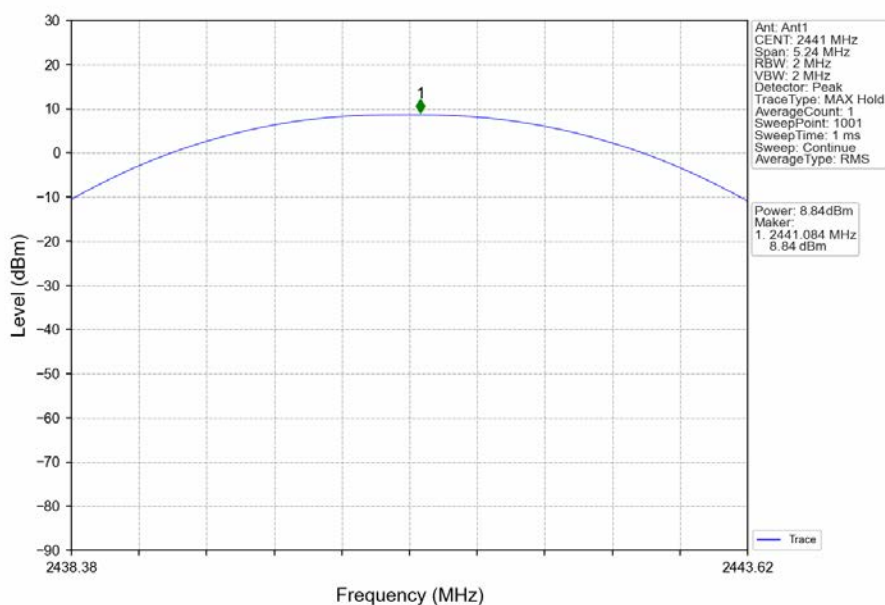
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	8.97	<=20.97	Pass
		2441	DH5	8.84	<=20.97	Pass
		2480	DH5	7.97	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	8.91	<=20.97	Pass
		2441	2DH5	8.85	<=20.97	Pass
		2480	2DH5	7.91	<=20.97	Pass
8DPSK	SISO	2402	3DH5	8.94	<=20.97	Pass
		2441	3DH5	8.96	<=20.97	Pass
		2480	3DH5	7.97	<=20.97	Pass

Note1: Antenna Gain: Ant1: 3.01dBi;

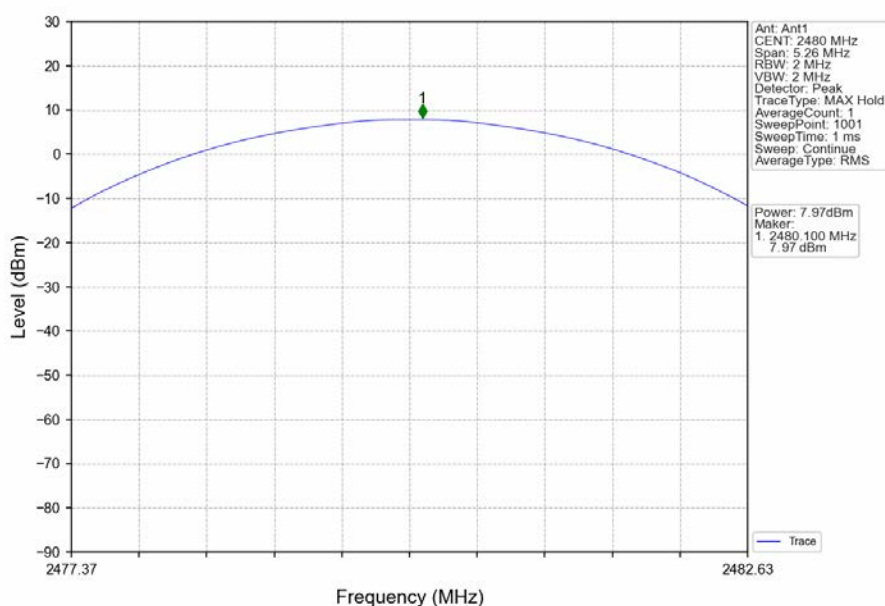
3.1.2 Test Graph



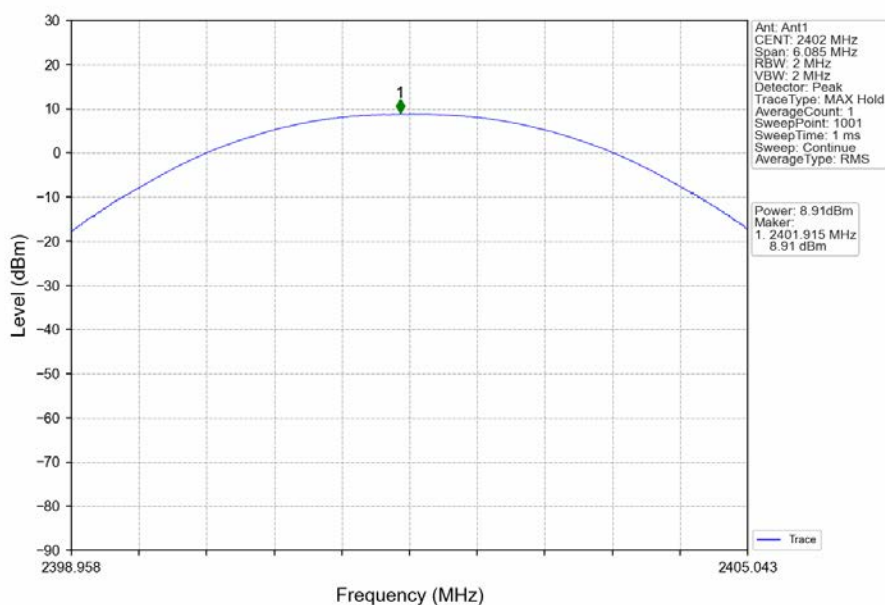
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



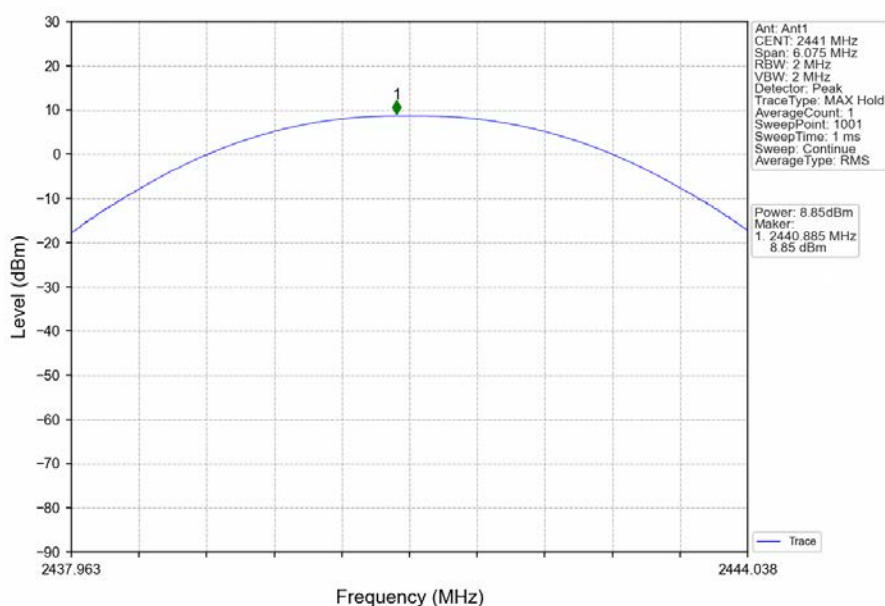
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



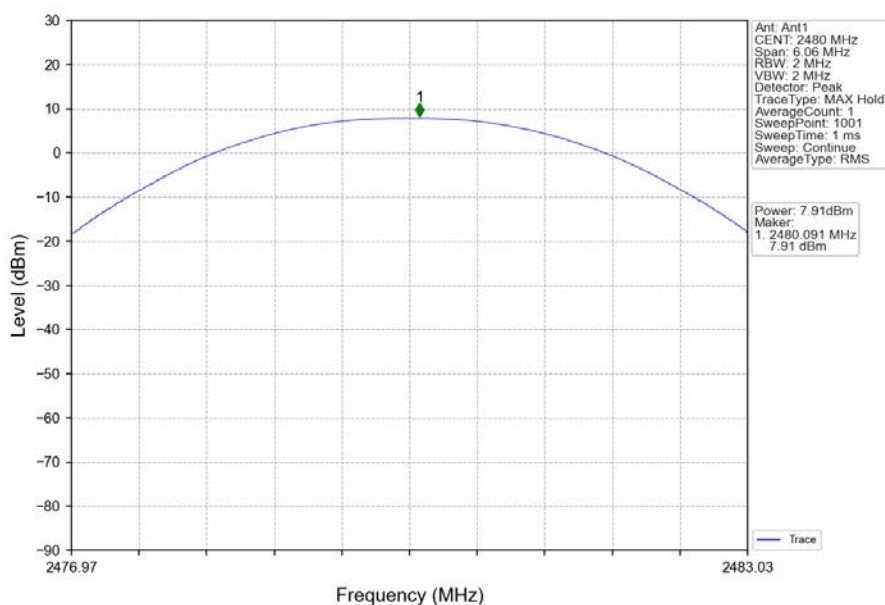
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



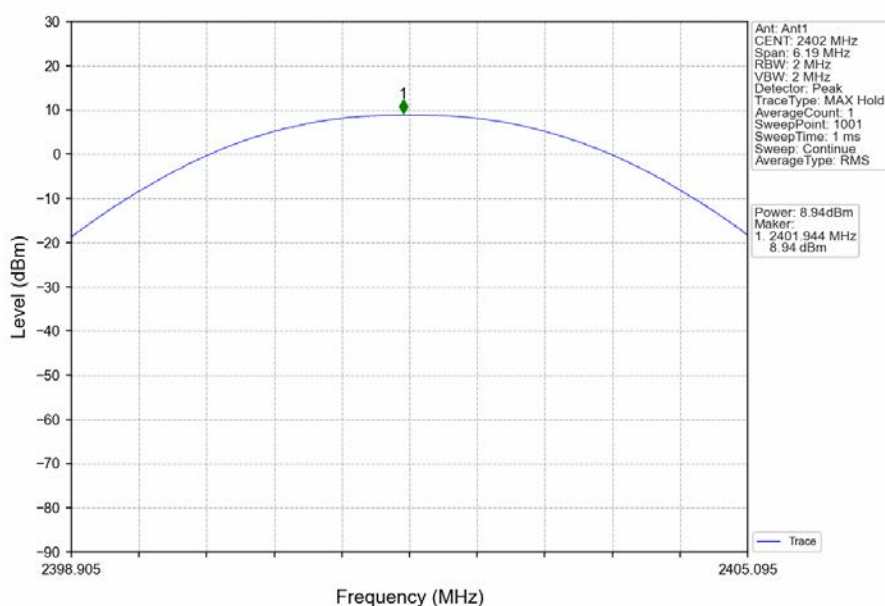
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



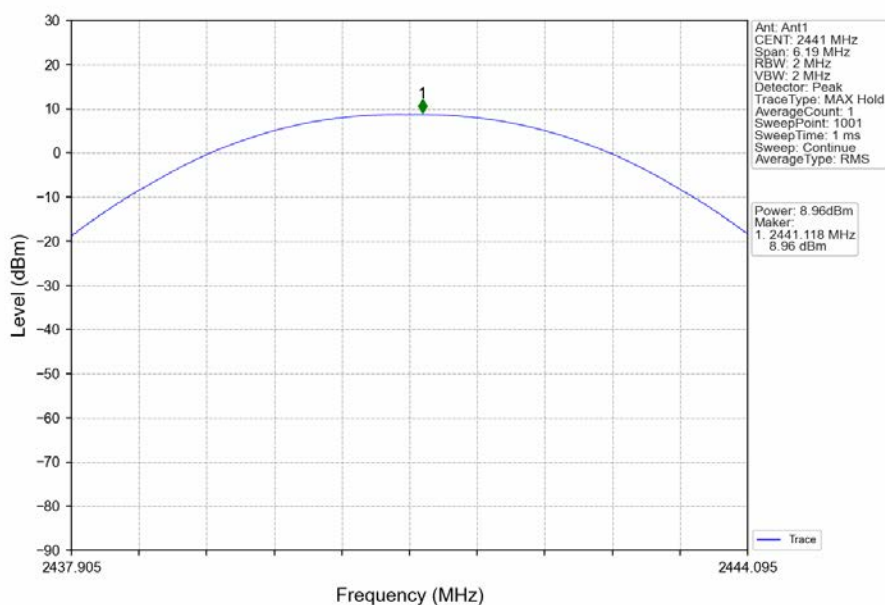
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



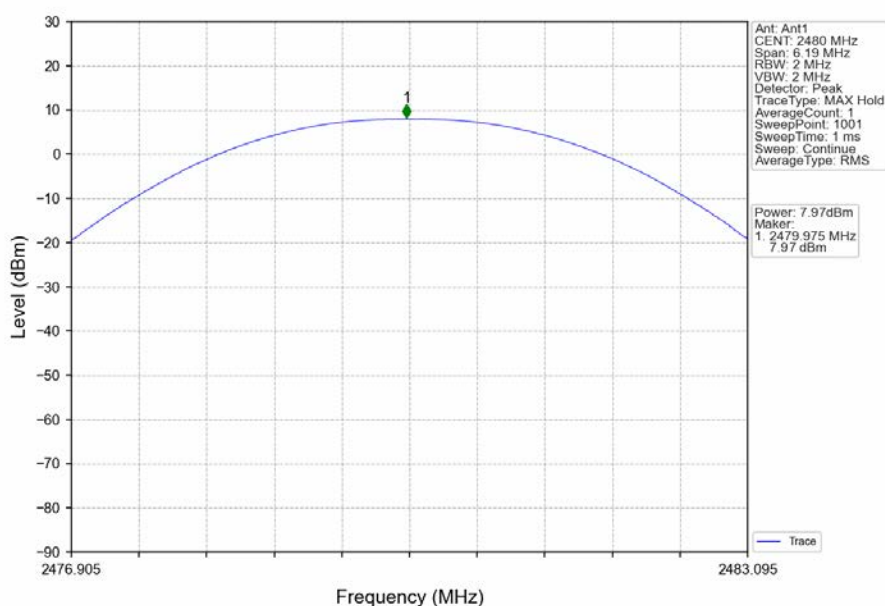
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



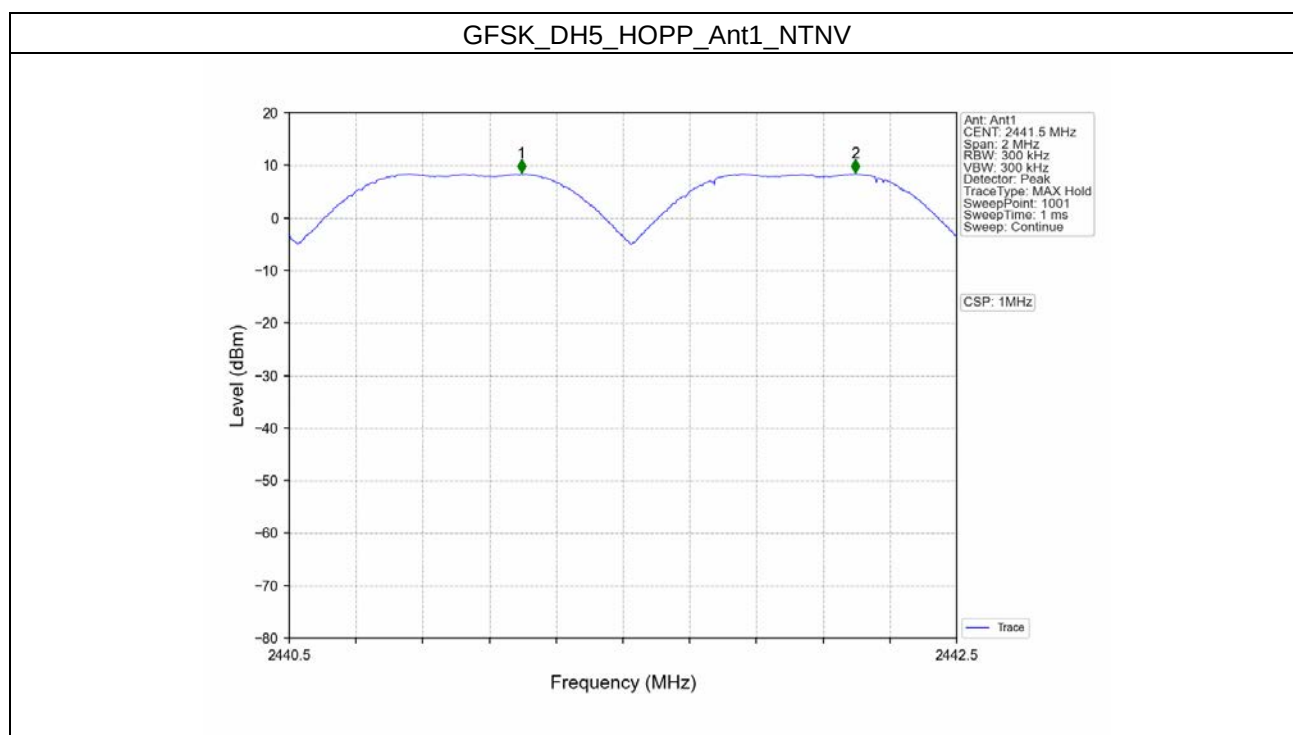
4. Carrier Frequency Separation

4.1 Ant1

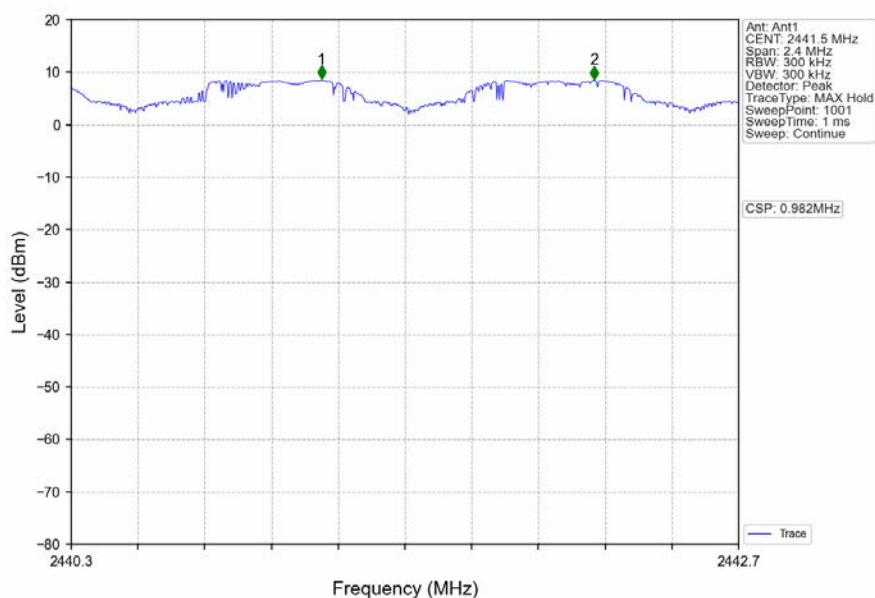
4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.052	≥ 0.701	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.982	1.217	≥ 0.811	Pass
8DPSK	SISO	HOPP	3DH5	1.013	1.238	≥ 0.825	Pass

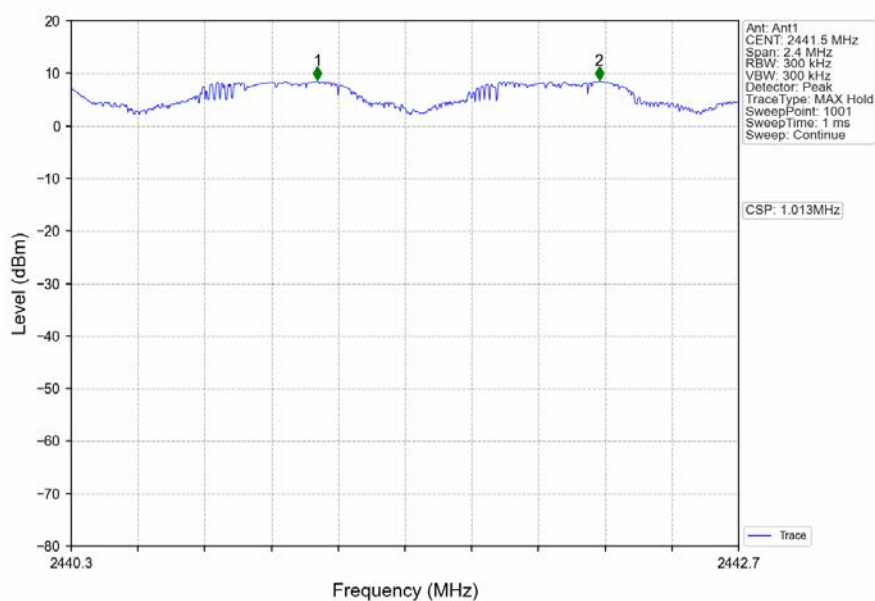
4.1.2 Test Graph



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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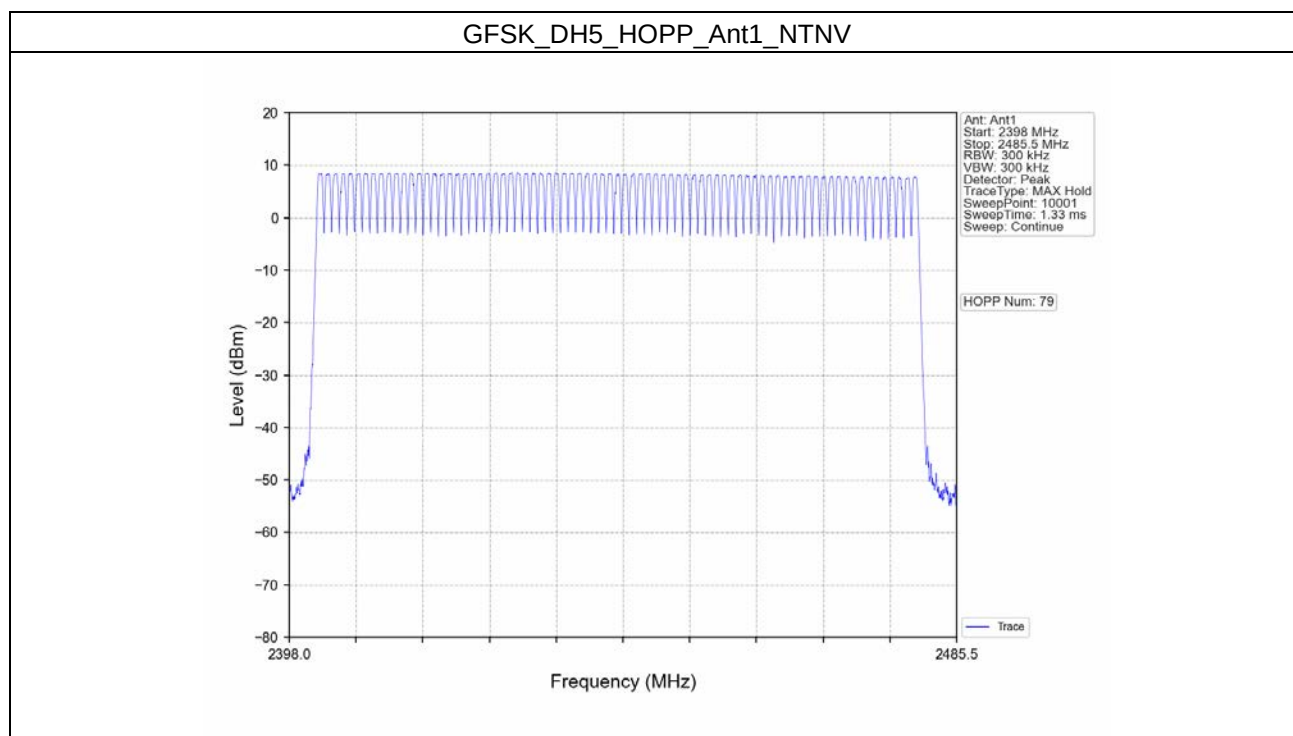
5. Number of Hopping Frequencies

5.1 HoppNum

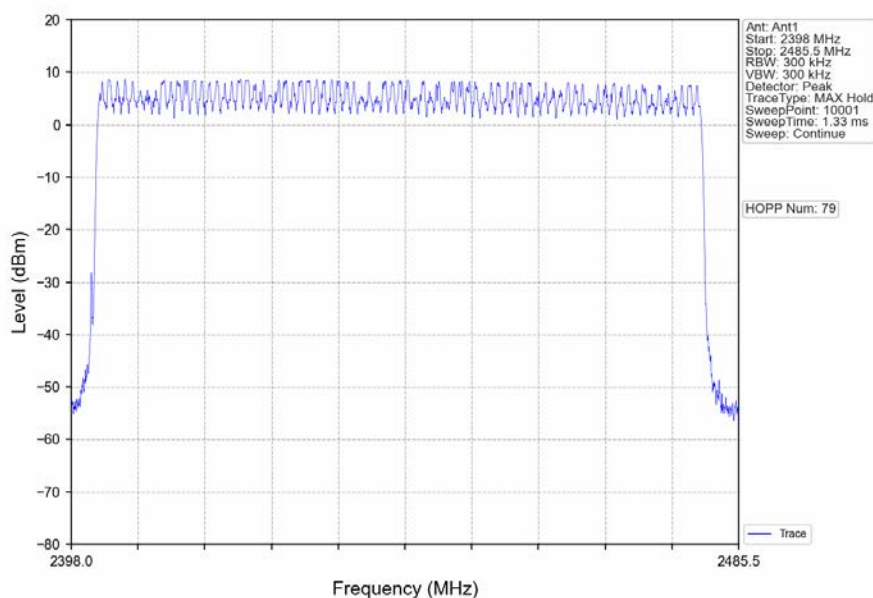
5.1.1 Test Result

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

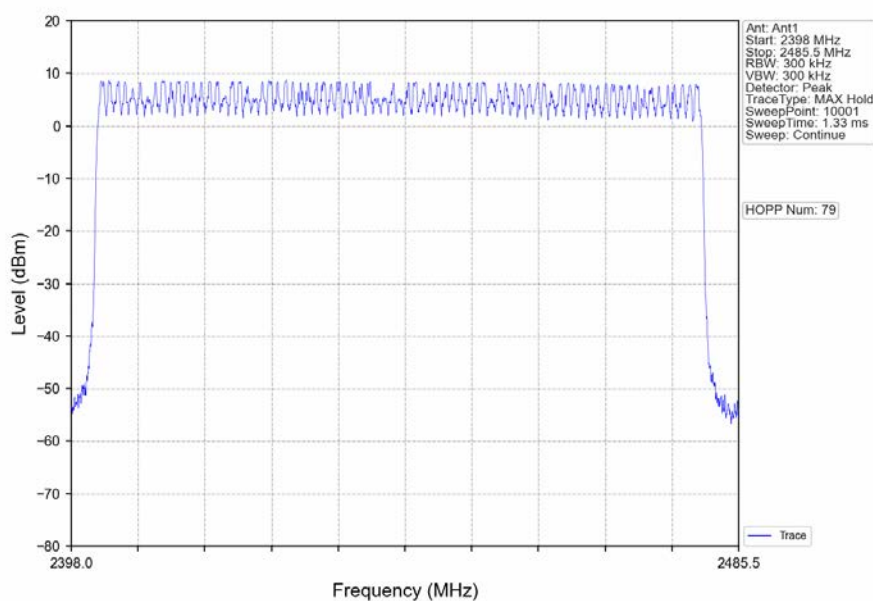
5.1.2 Test Graph



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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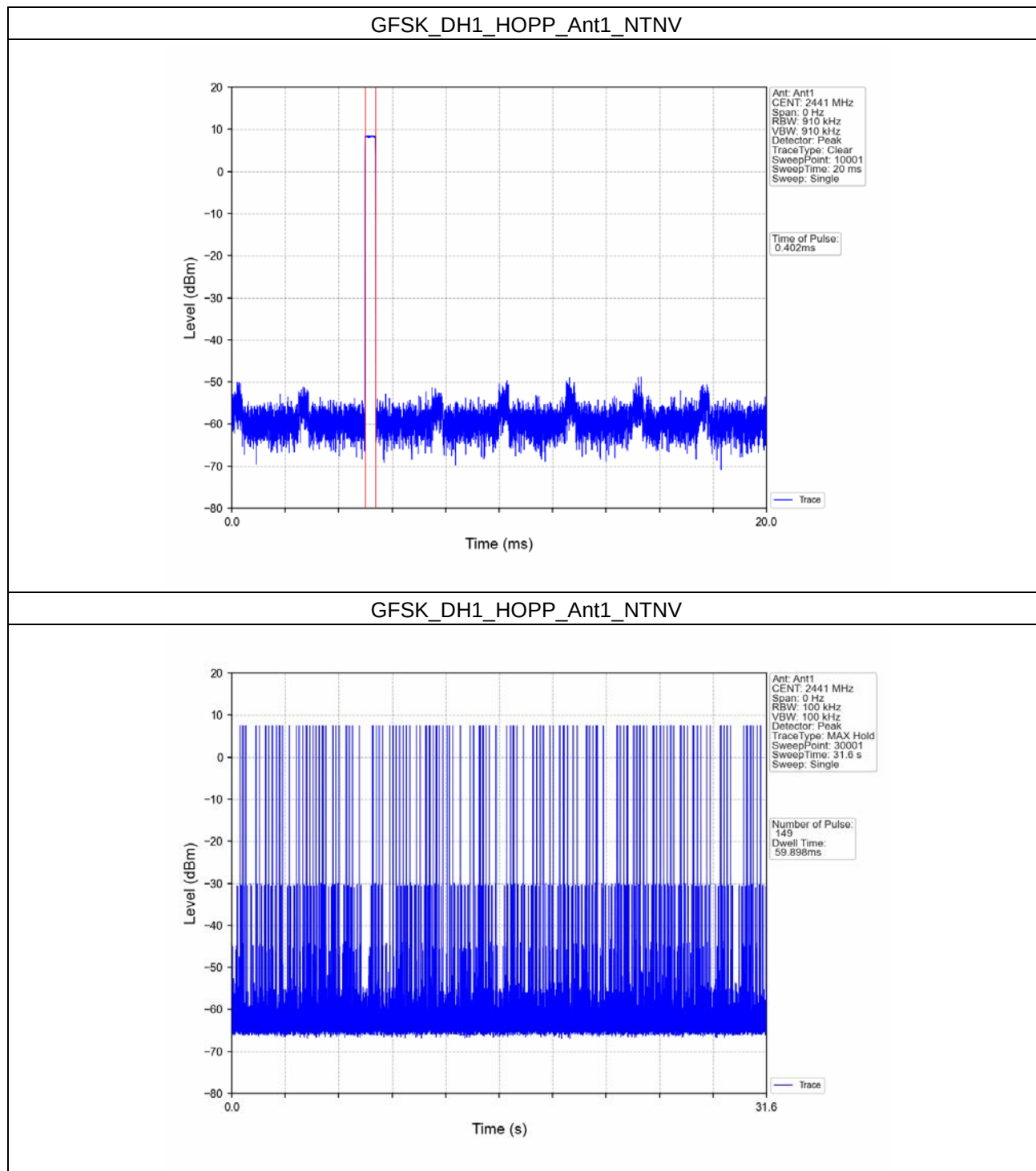
6. Time of Occupancy (Dwell Time)

6.1 Ant1

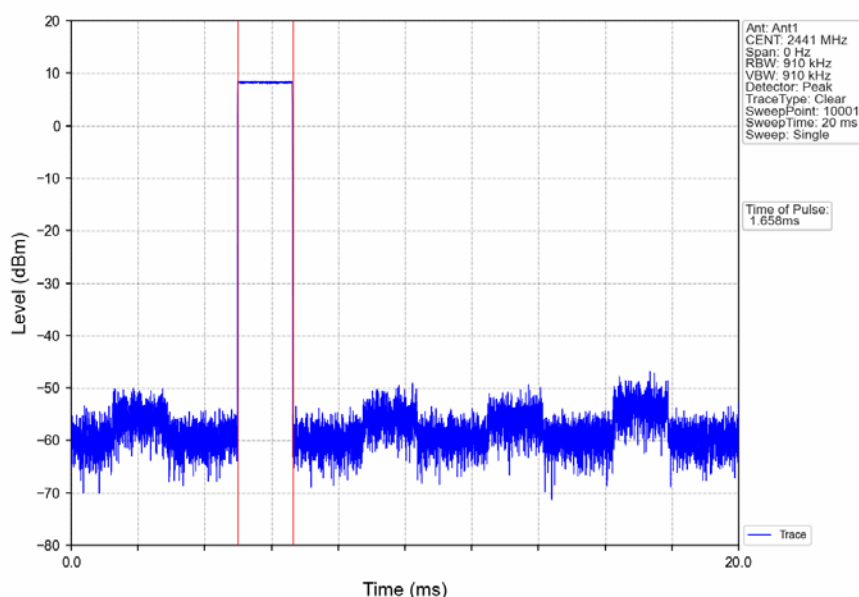
6.1.1 Test Result

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	0.402	31.600	149	59.898	<=400	Pass
			DH3	1.658	31.600	96	159.168	<=400	Pass
			DH5	2.904	31.600	81	235.224	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.412	31.600	151	62.212	<=400	Pass
			2DH3	1.662	31.600	115	191.130	<=400	Pass
			2DH5	2.910	31.600	77	224.070	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.412	31.600	152	62.624	<=400	Pass
			3DH3	1.662	31.600	95	157.890	<=400	Pass
			3DH5	2.912	31.600	82	238.784	<=400	Pass

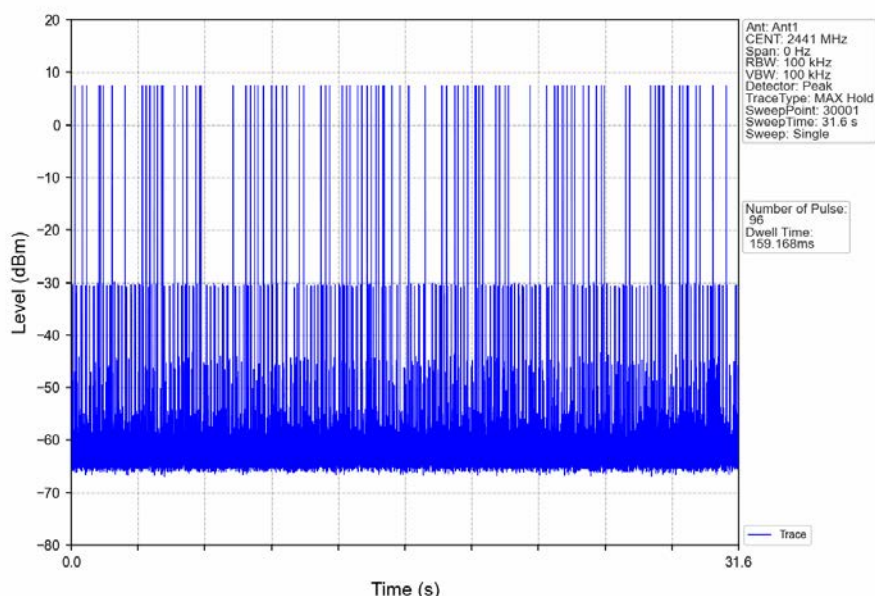
6.1.2 Test Graph



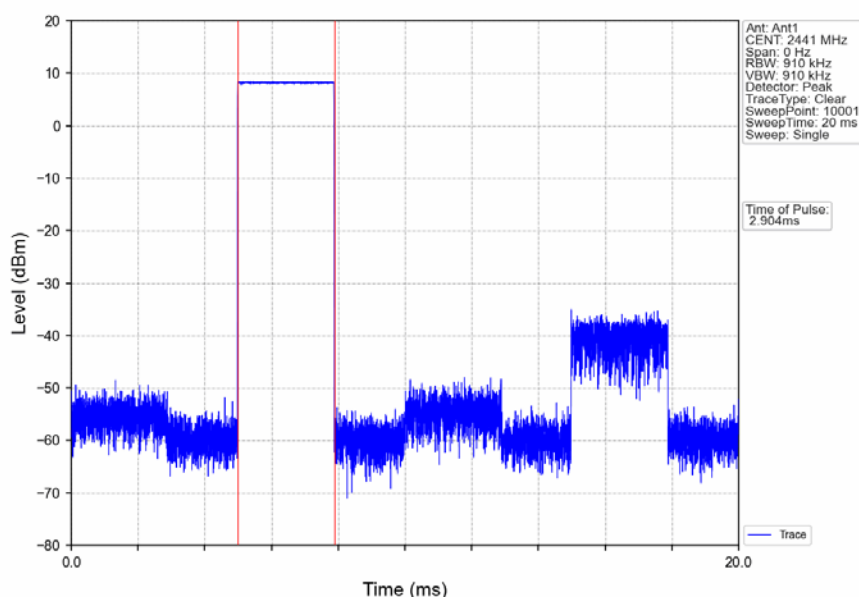
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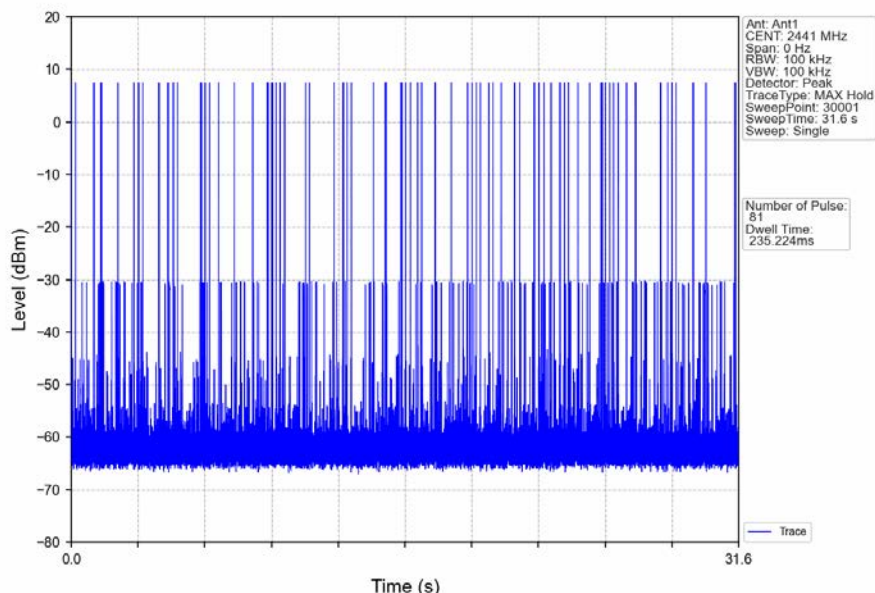
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GFSK_DH5_HOPP_Ant1_NTNV



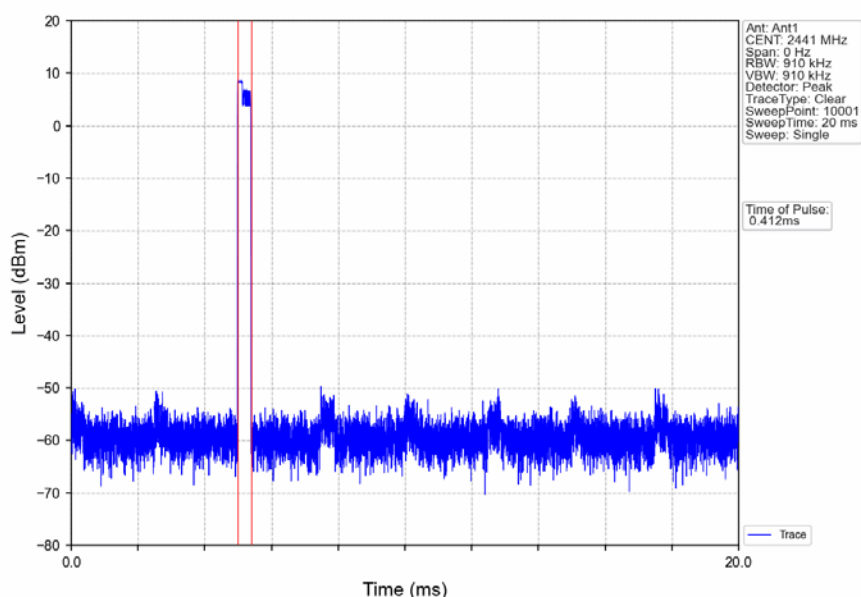
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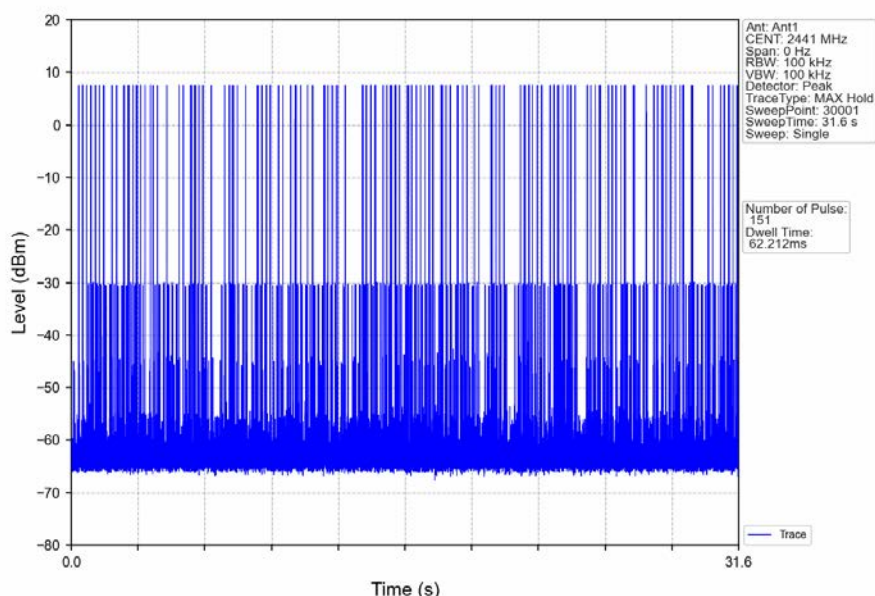
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



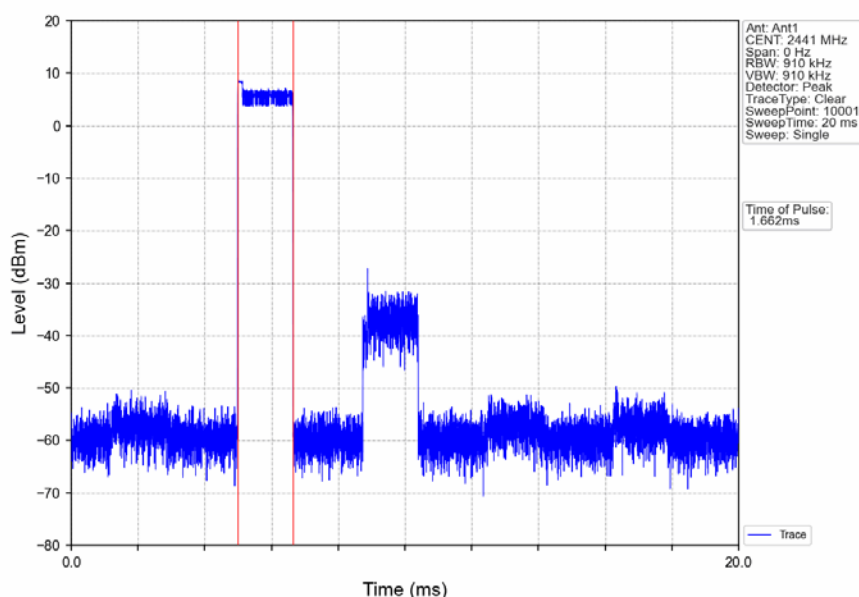
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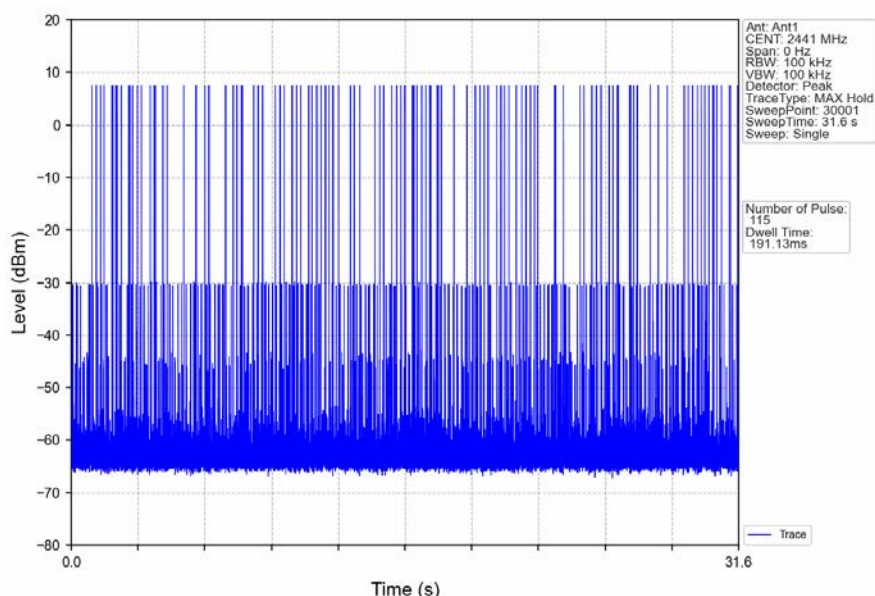
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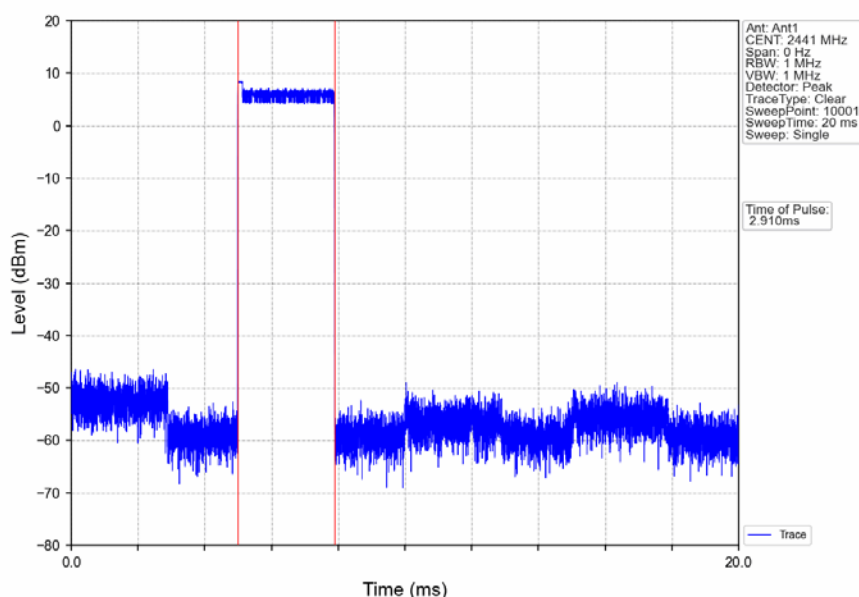
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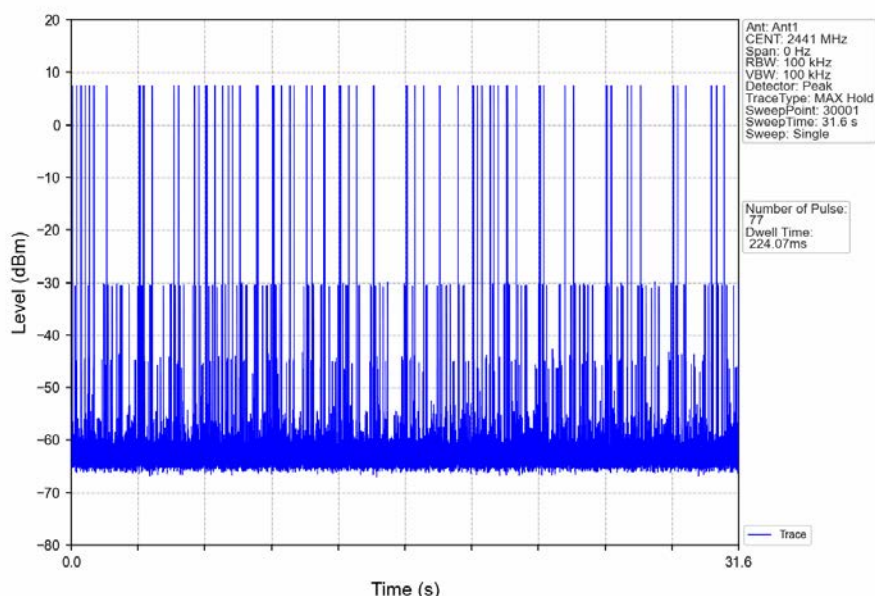
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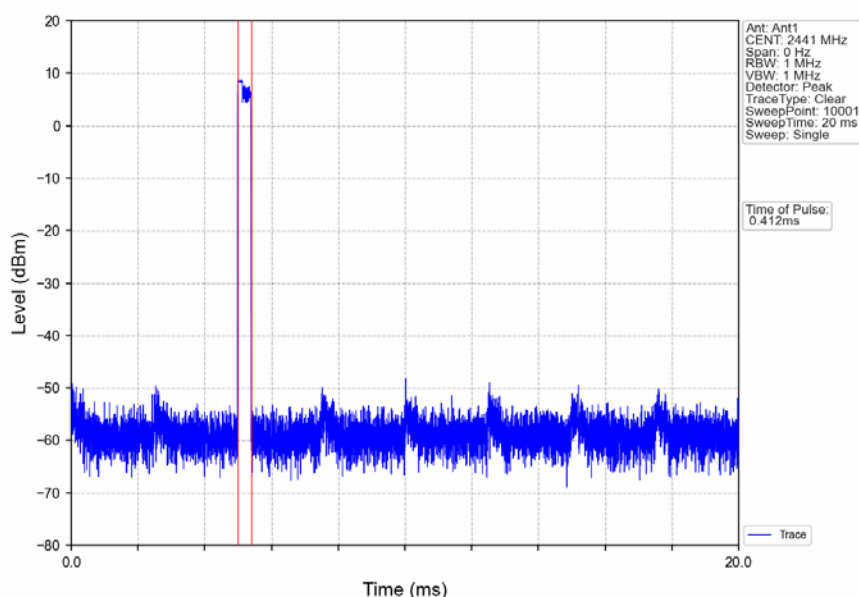
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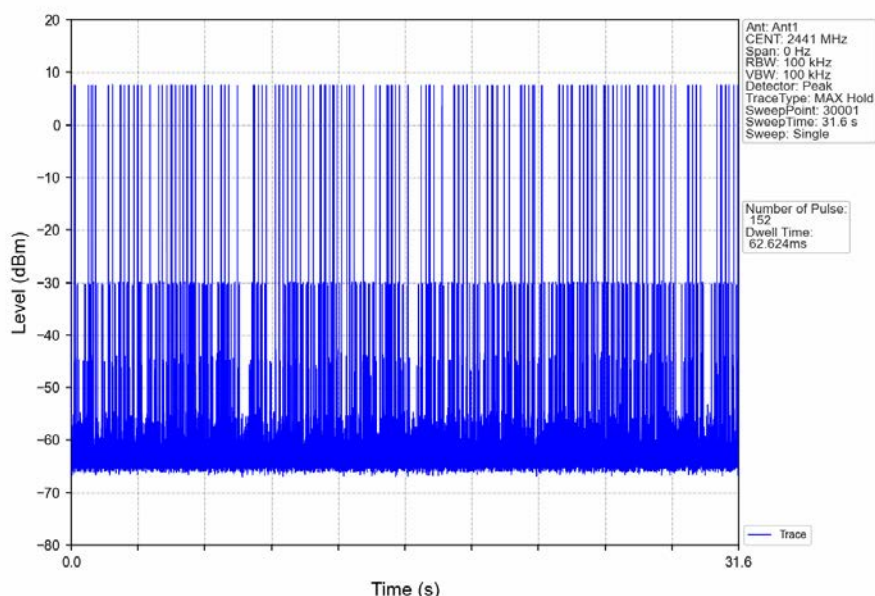
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8DPSK_3DH1_HOPP_Ant1_NTNV

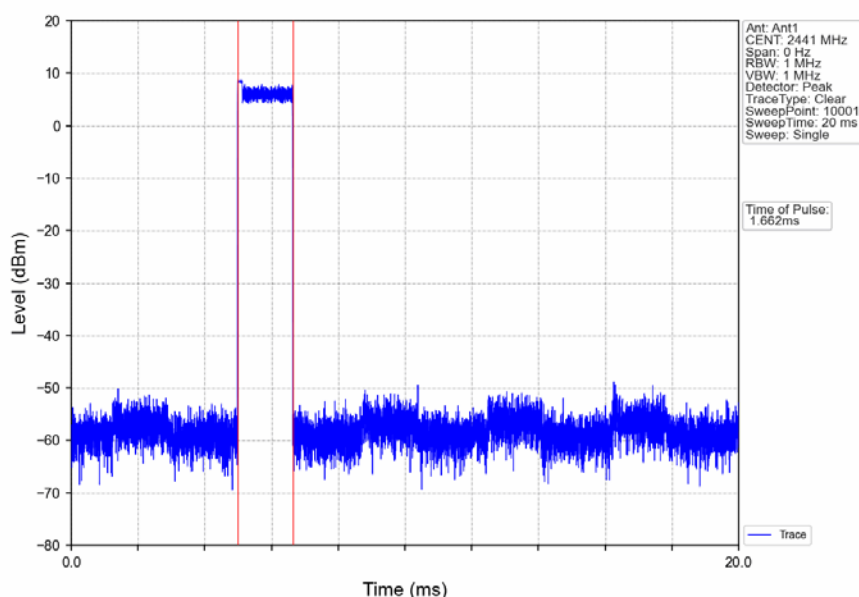


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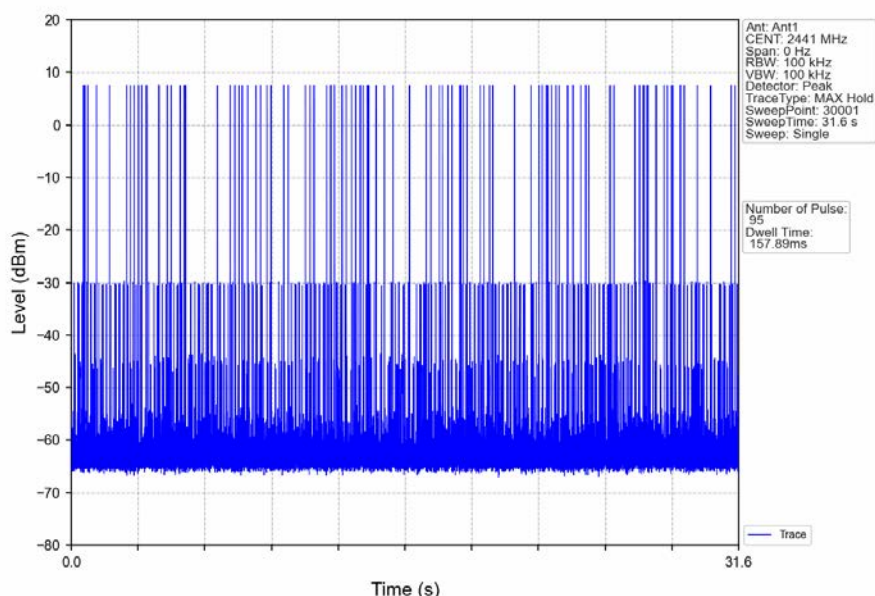


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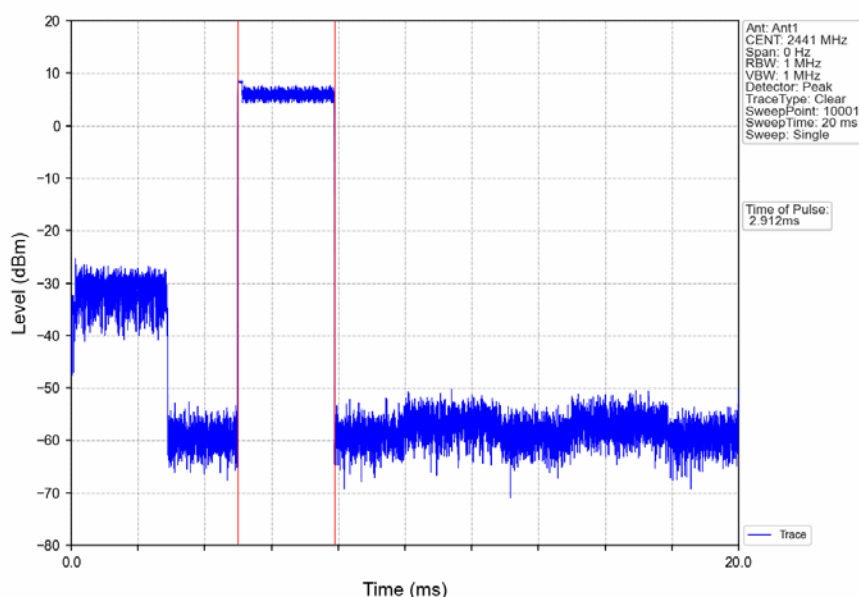
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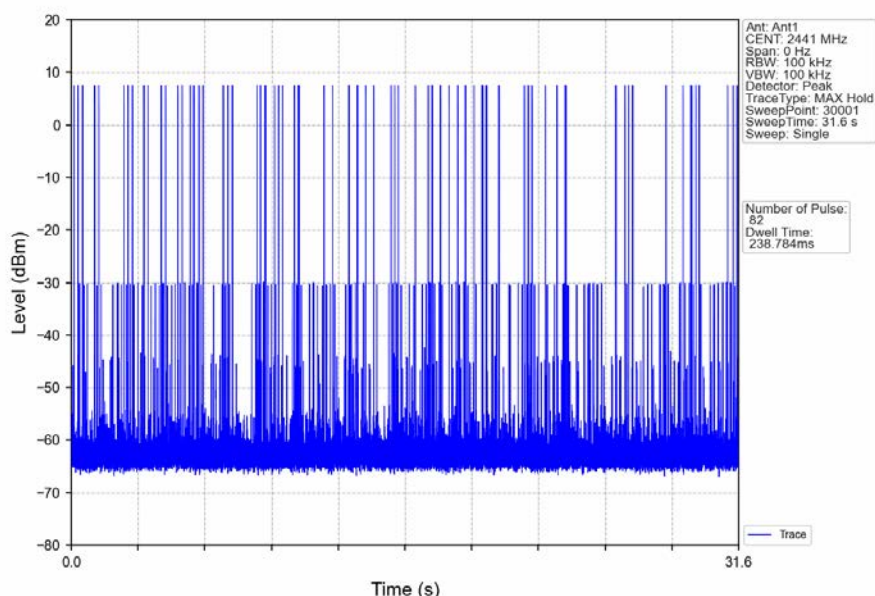
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

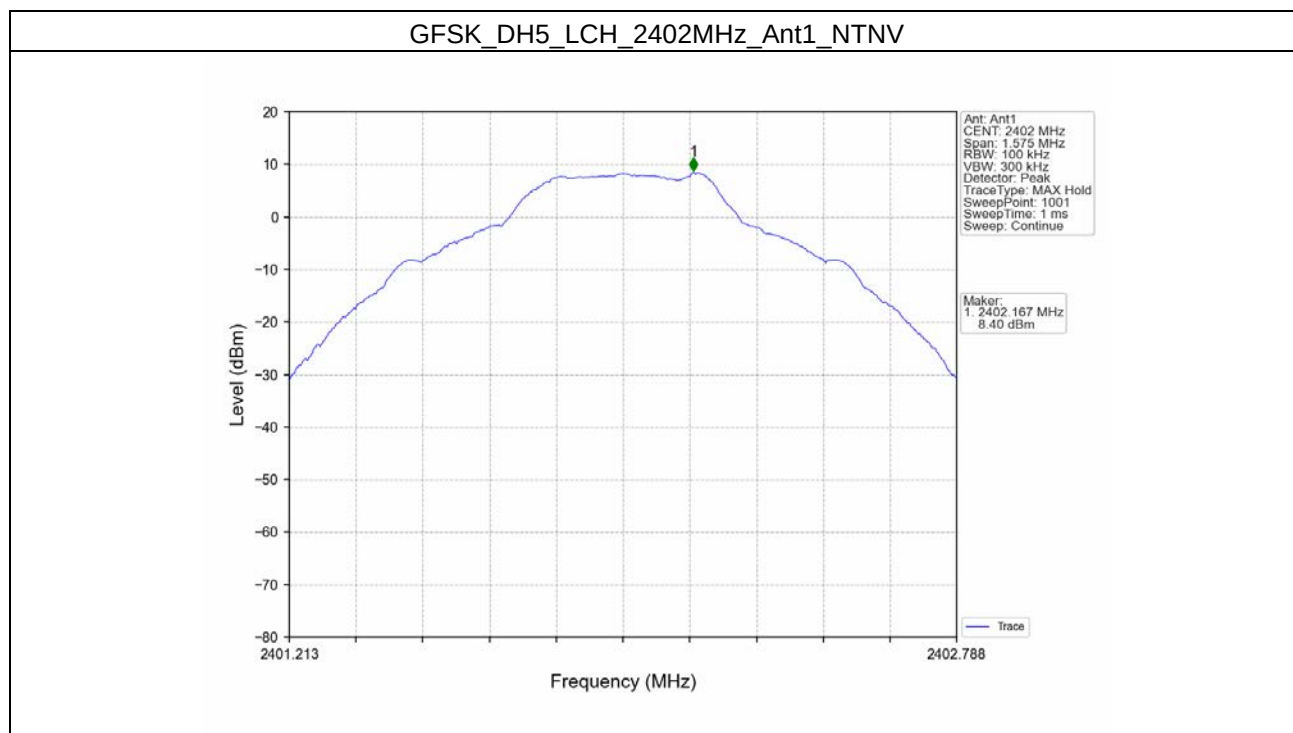
7.1 Ref

7.1.1 Test Result

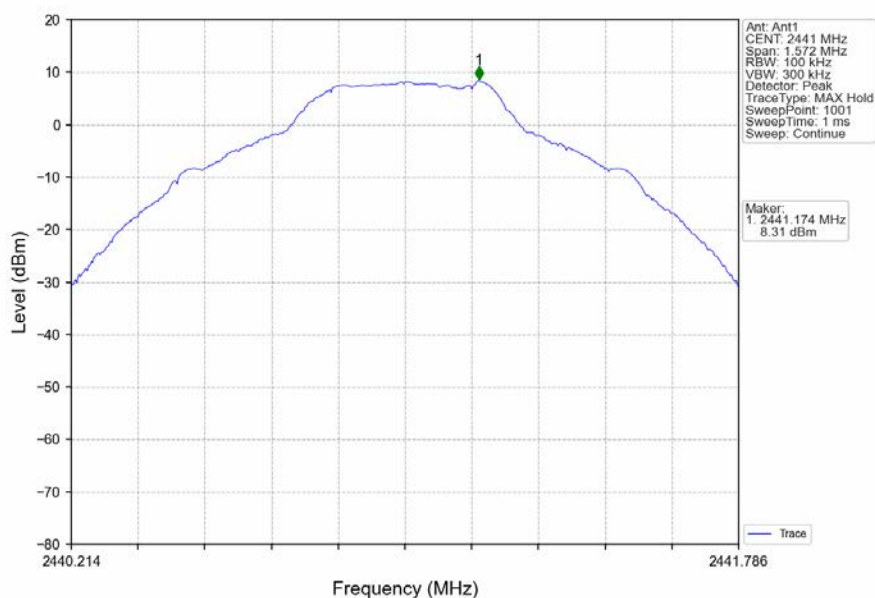
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GFSK	SISO	2402	DH5	1	8.40
		2441	DH5	1	8.31
		2480	DH5	1	7.48
Pi/4DQPSK	SISO	2402	2DH5	1	8.25
		2441	2DH5	1	8.19
		2480	2DH5	1	7.47
8DPSK	SISO	2402	3DH5	1	8.42
		2441	3DH5	1	8.42
		2480	3DH5	1	7.62

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.

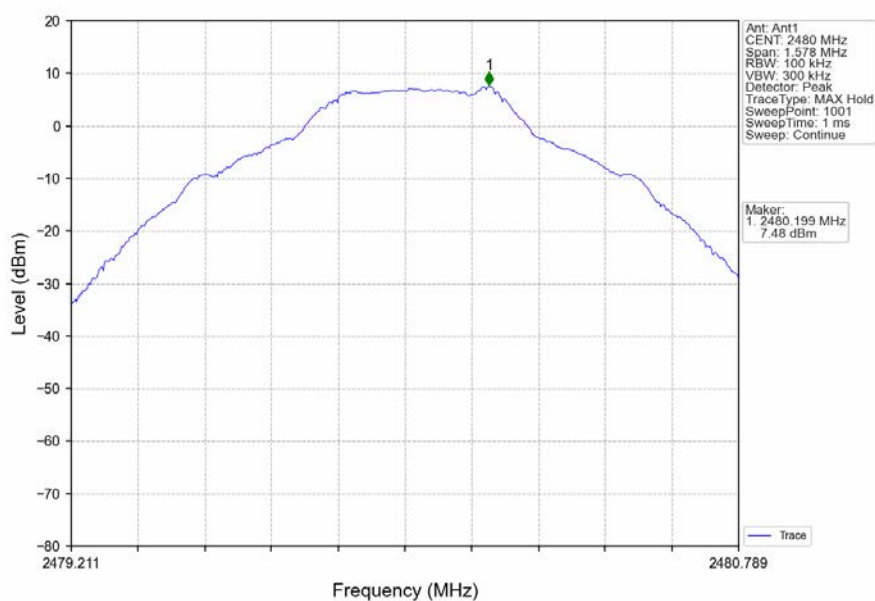
7.1.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



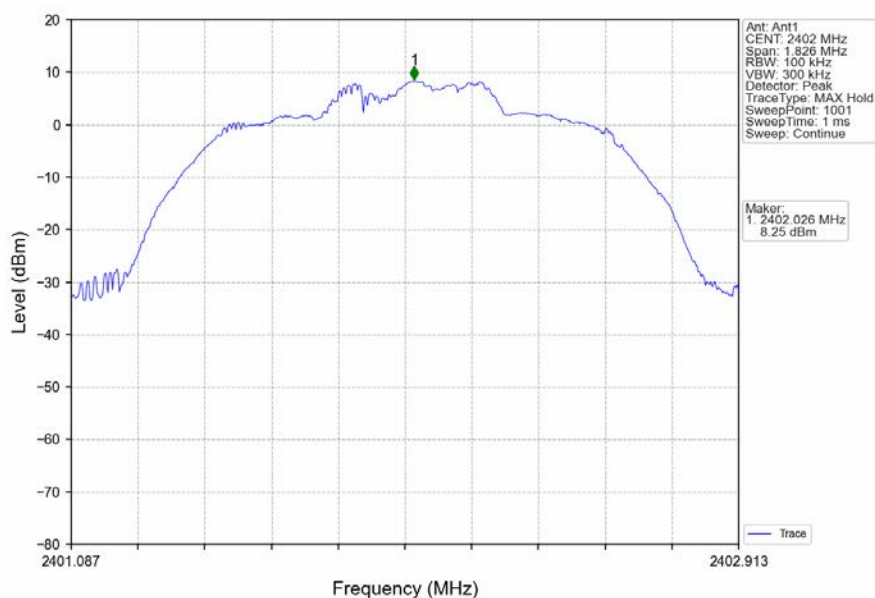
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



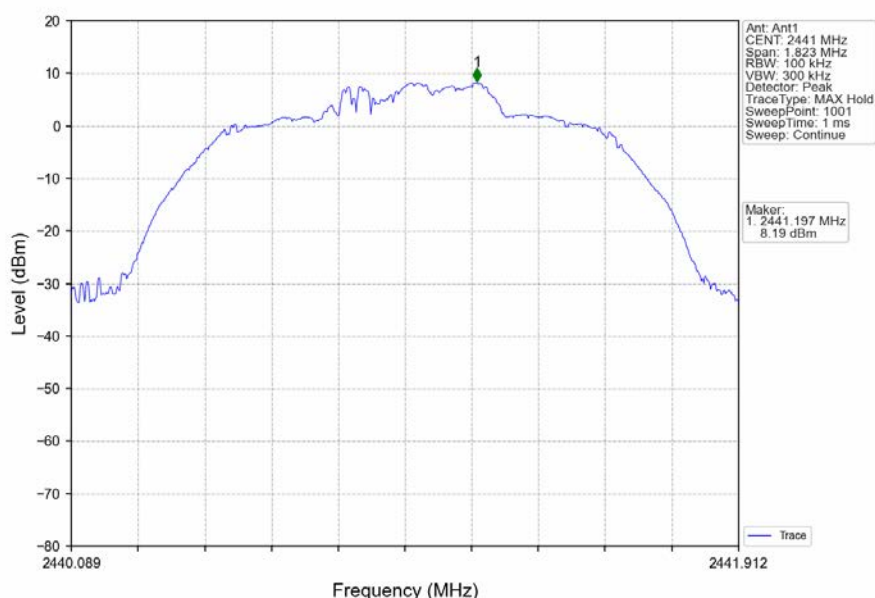
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



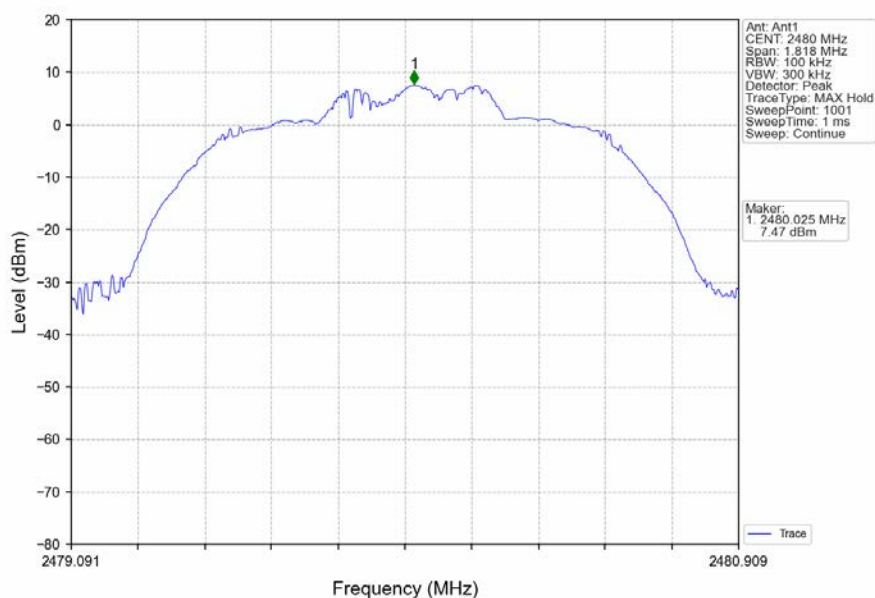
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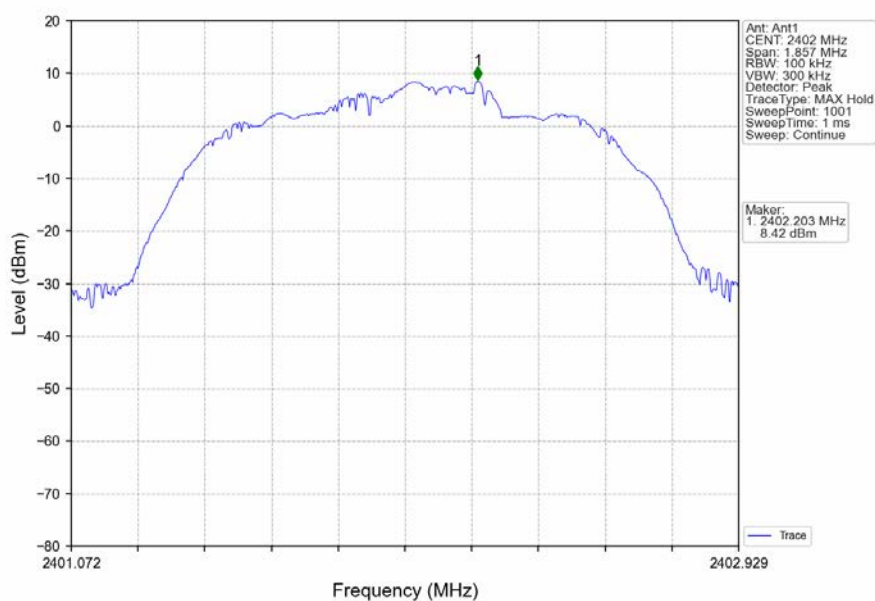
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



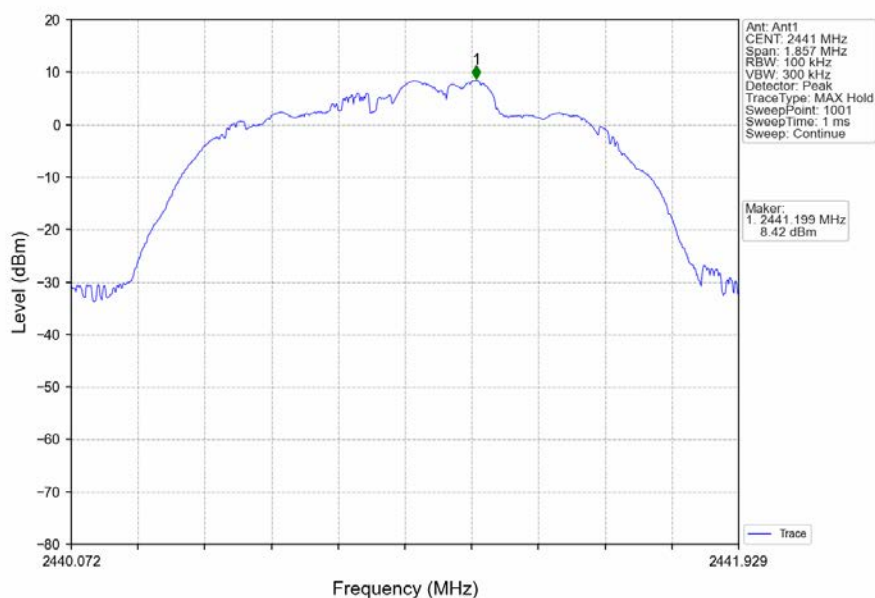
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



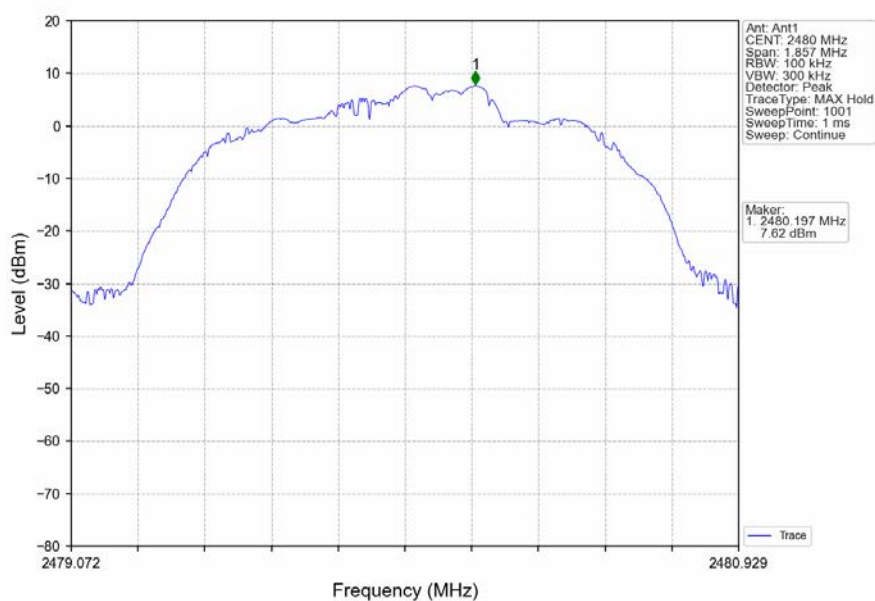
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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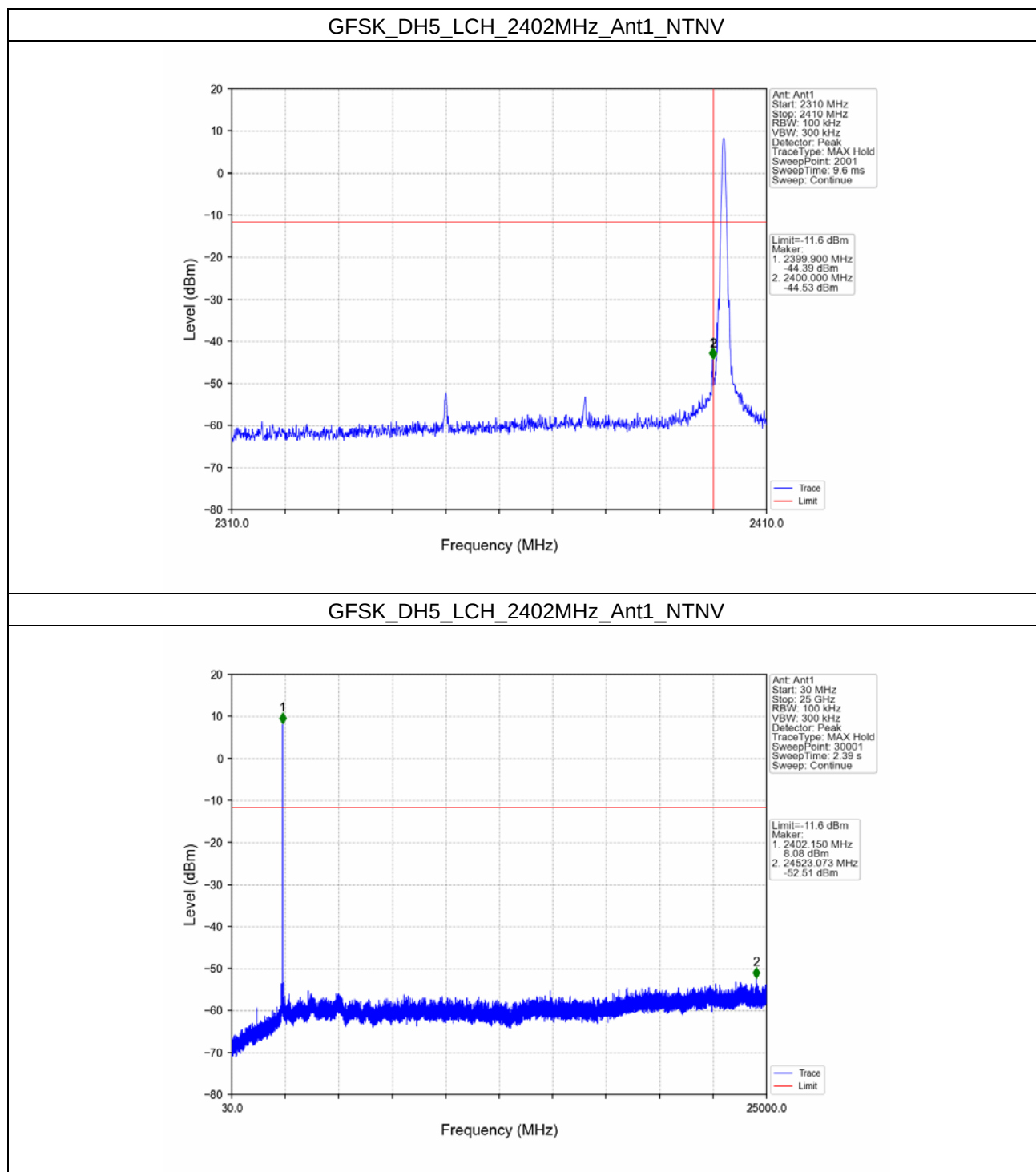
7.2 CSE and Band Edges

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.40	-11.60	Pass
		2441	DH5	1	8.40	-11.60	Pass
		2480	DH5	1	8.40	-11.60	Pass
		HOPP	DH5	1	8.40	-11.60	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.25	-11.75	Pass
		2441	2DH5	1	8.25	-11.75	Pass
		2480	2DH5	1	8.25	-11.75	Pass
		HOPP	2DH5	1	8.25	-11.75	Pass
8DPSK	SISO	2402	3DH5	1	8.42	-11.58	Pass
		2441	3DH5	1	8.42	-11.58	Pass
		2480	3DH5	1	8.42	-11.58	Pass
		HOPP	3DH5	1	8.42	-11.58	Pass

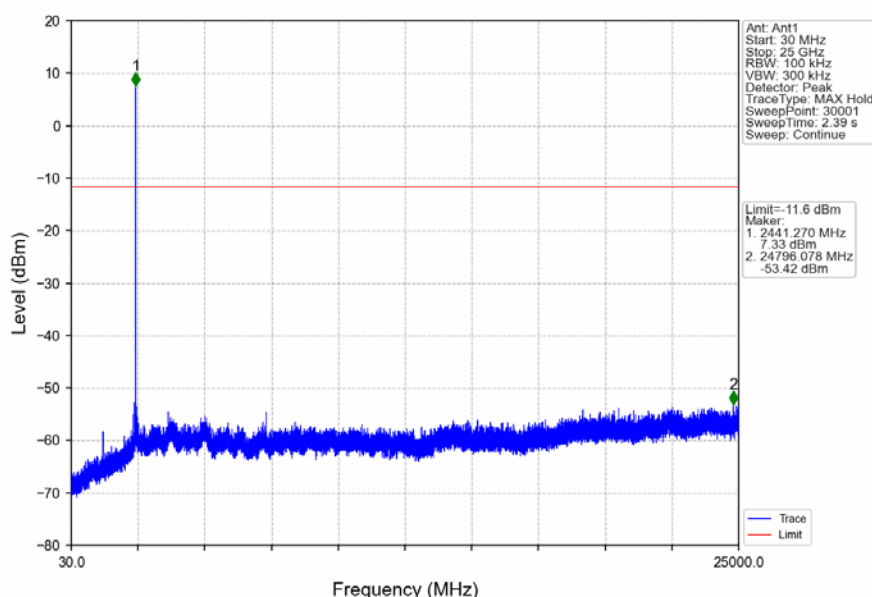
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

7.2.2 Test Graph

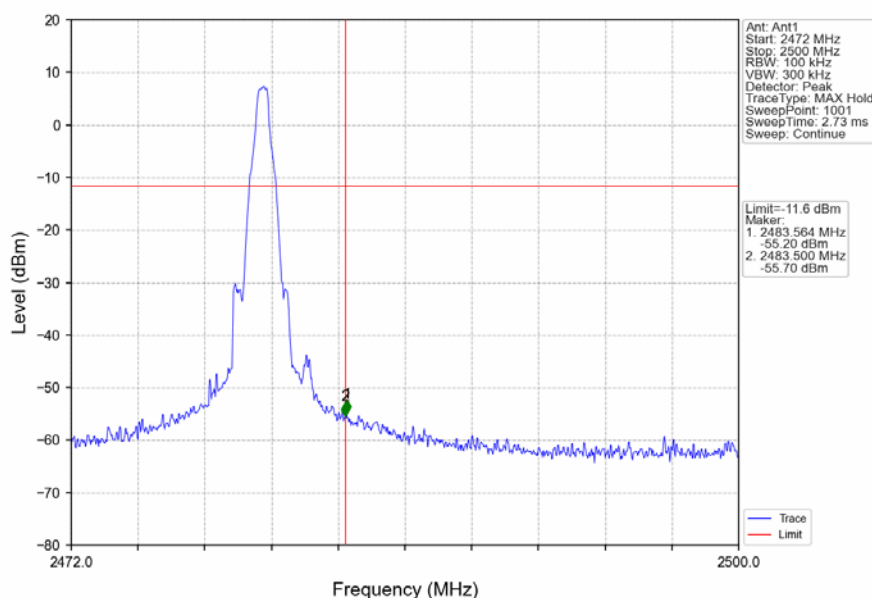


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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



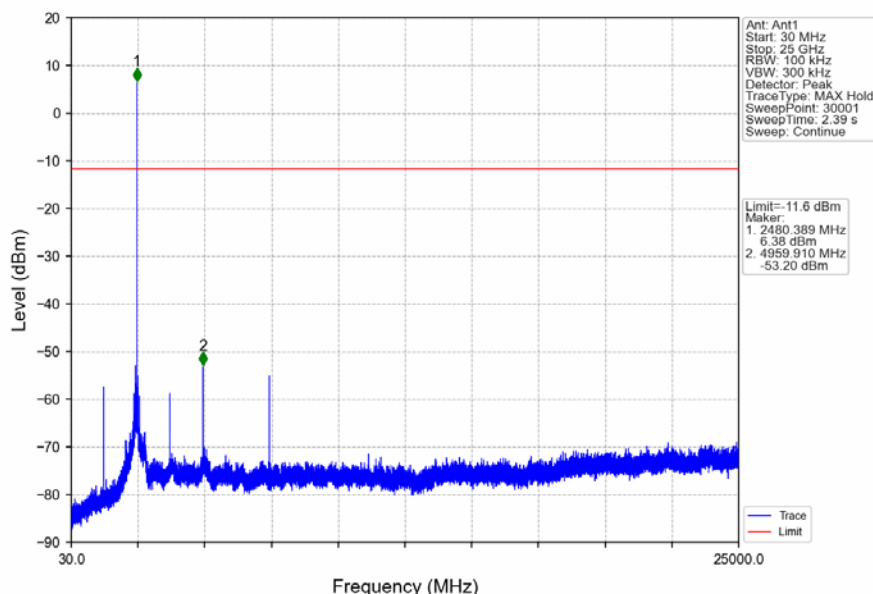
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



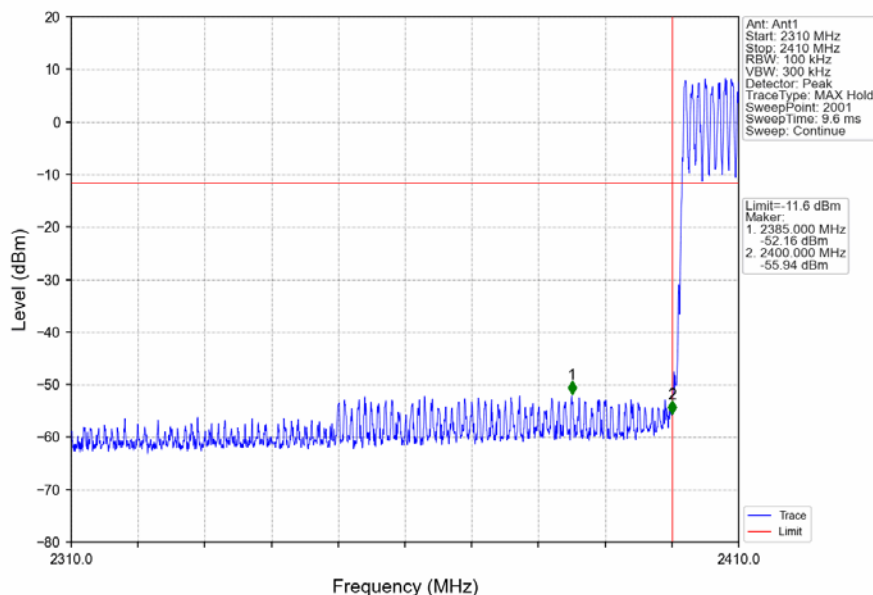
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



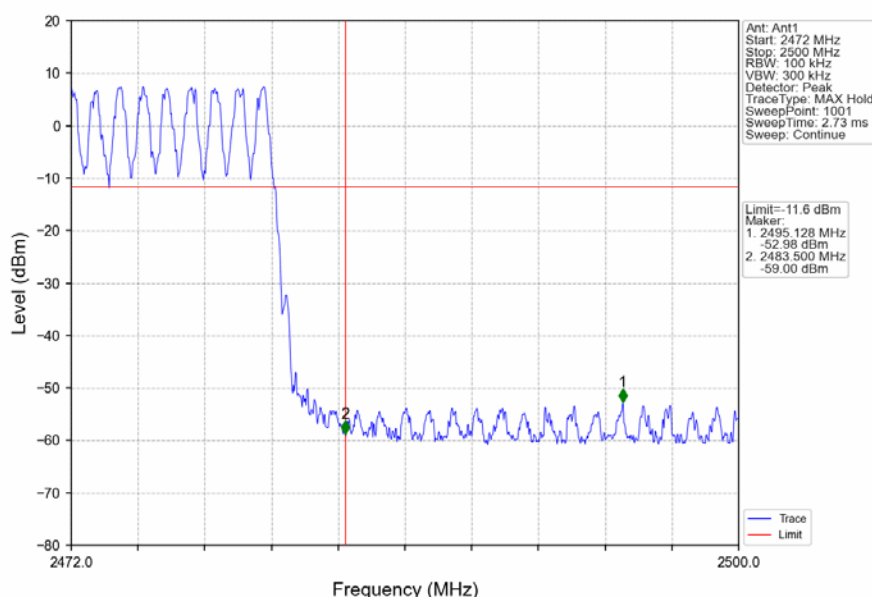
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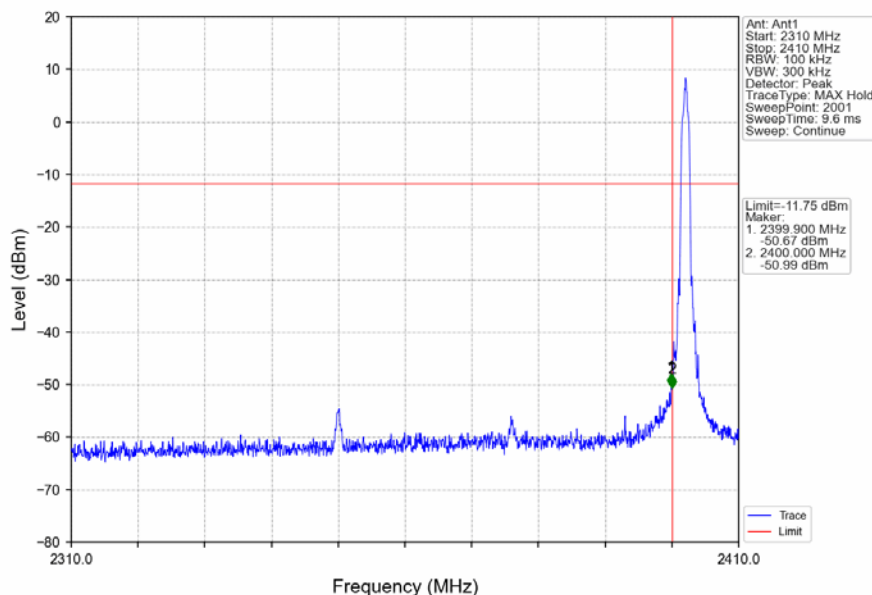
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GFSK_DH5_HOPP_Ant1_NTNV



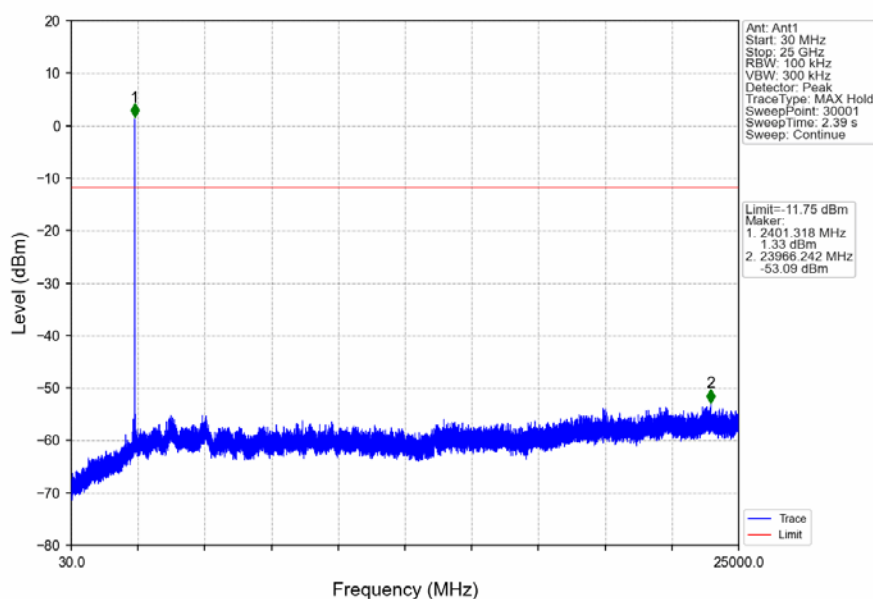
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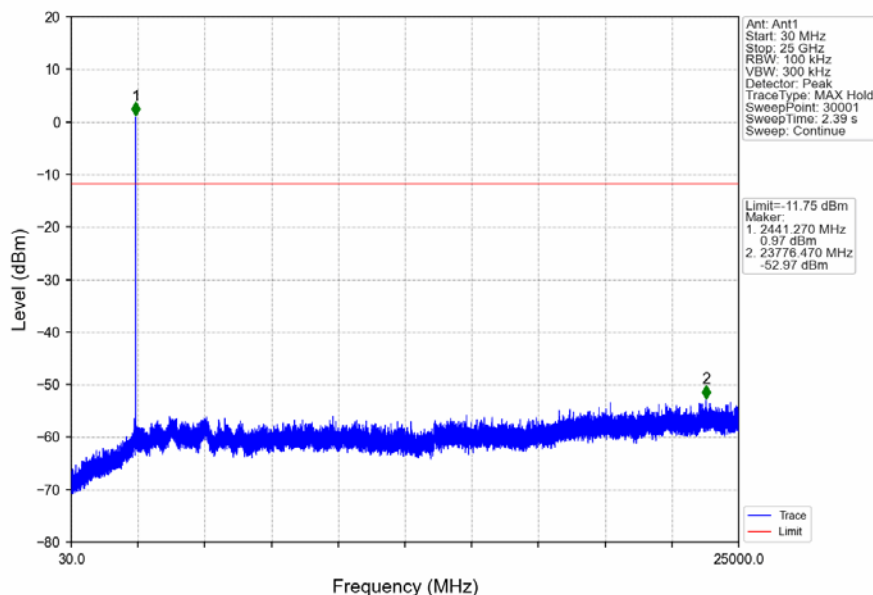
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



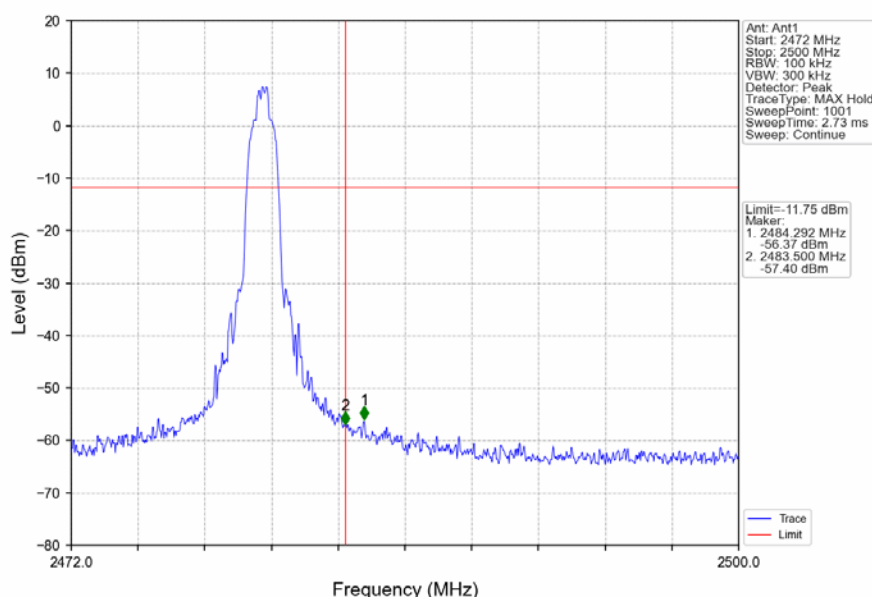
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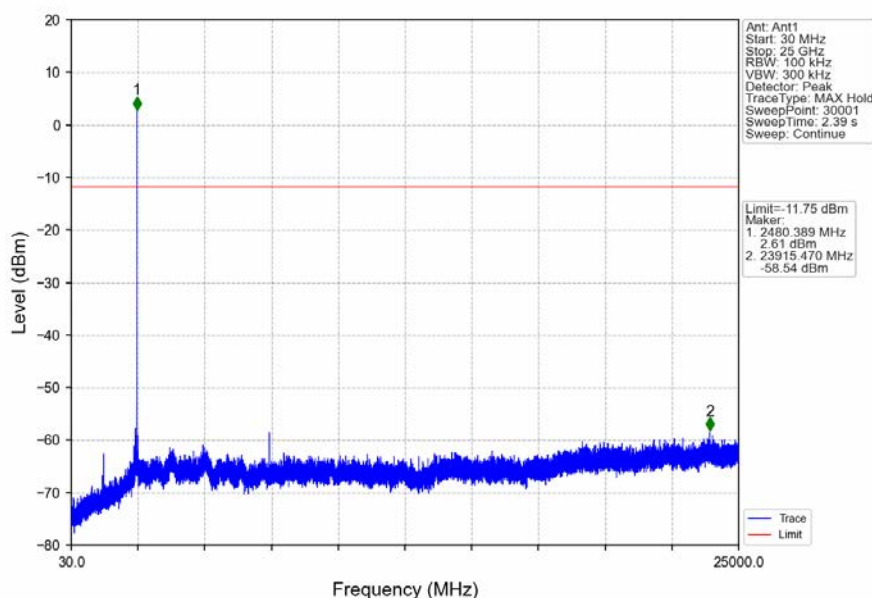
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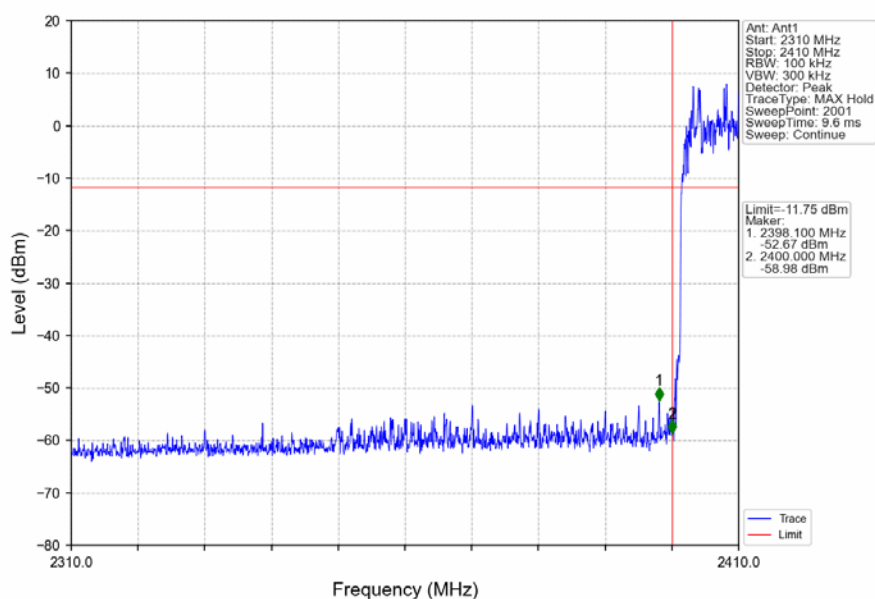
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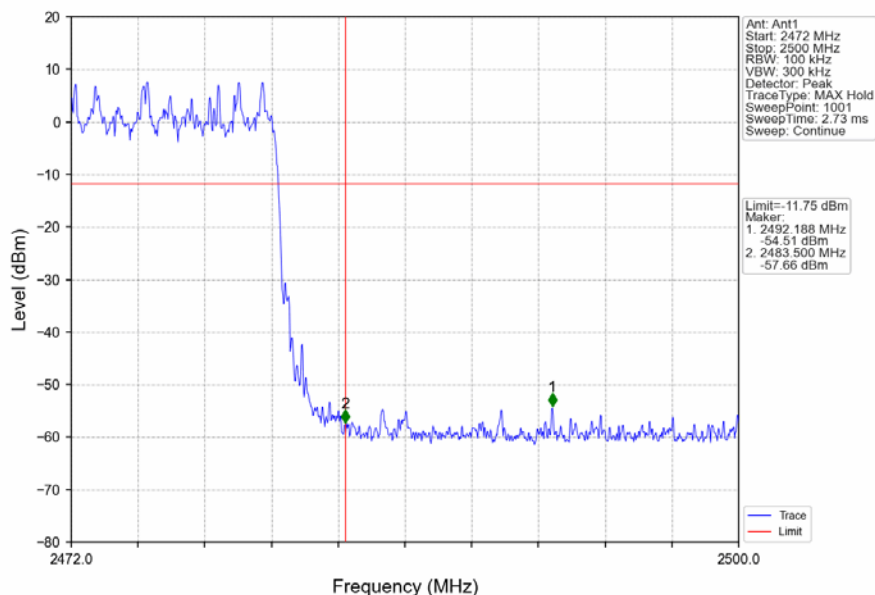
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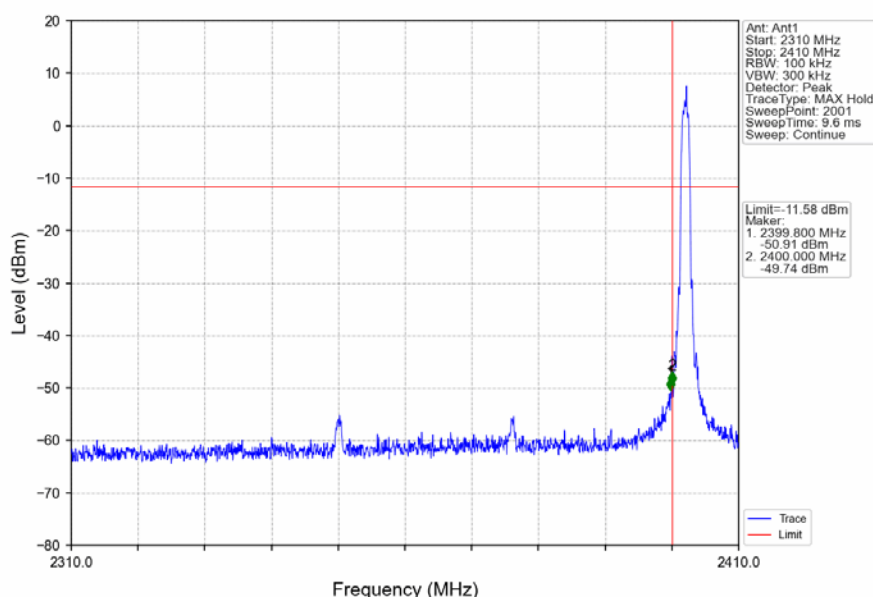
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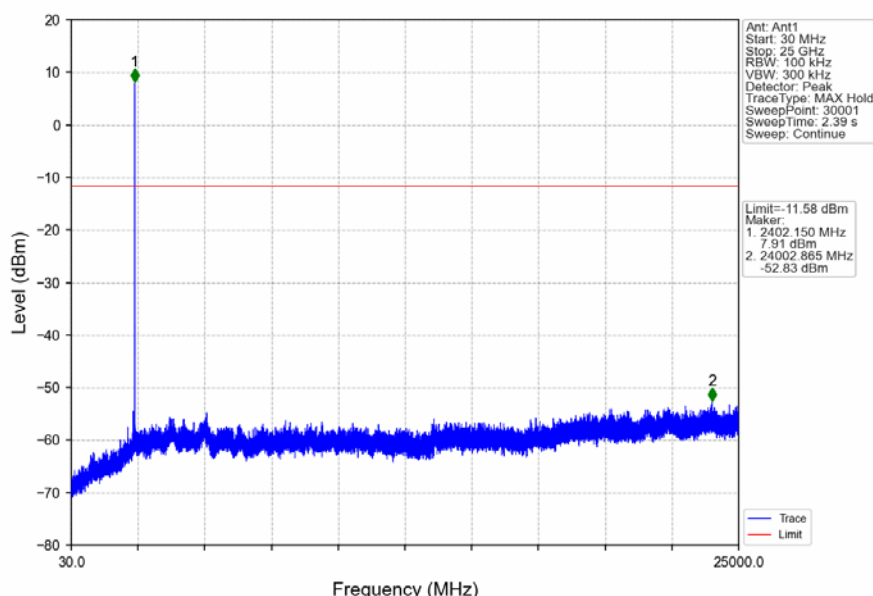
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



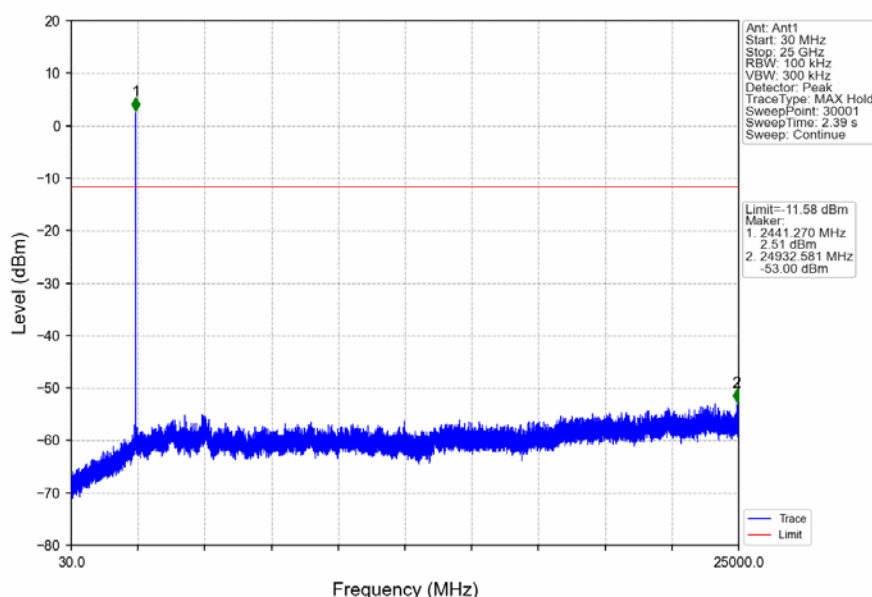
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



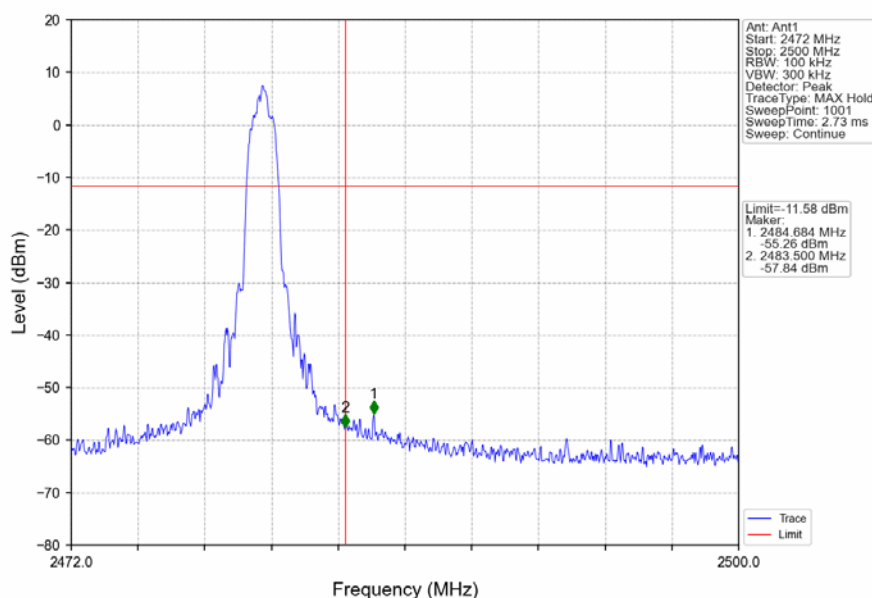
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

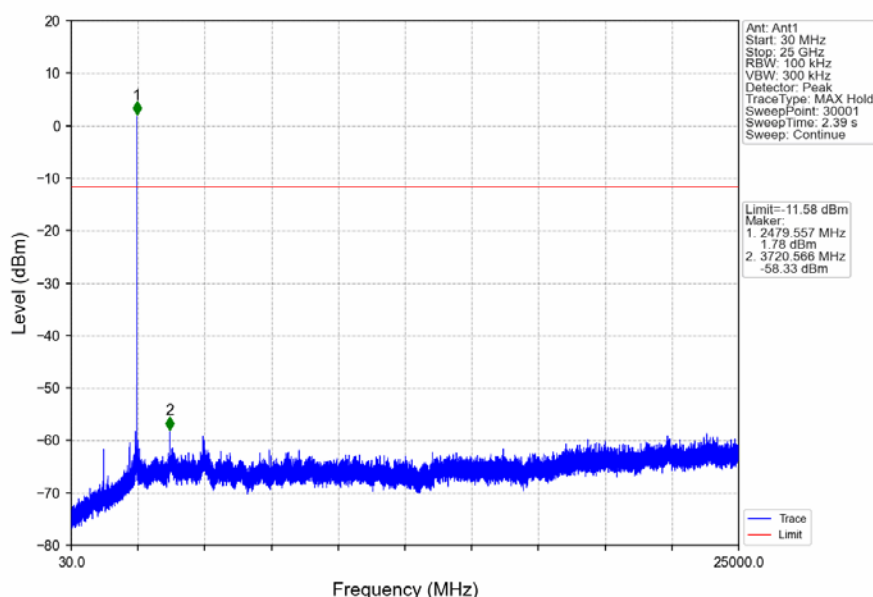


8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

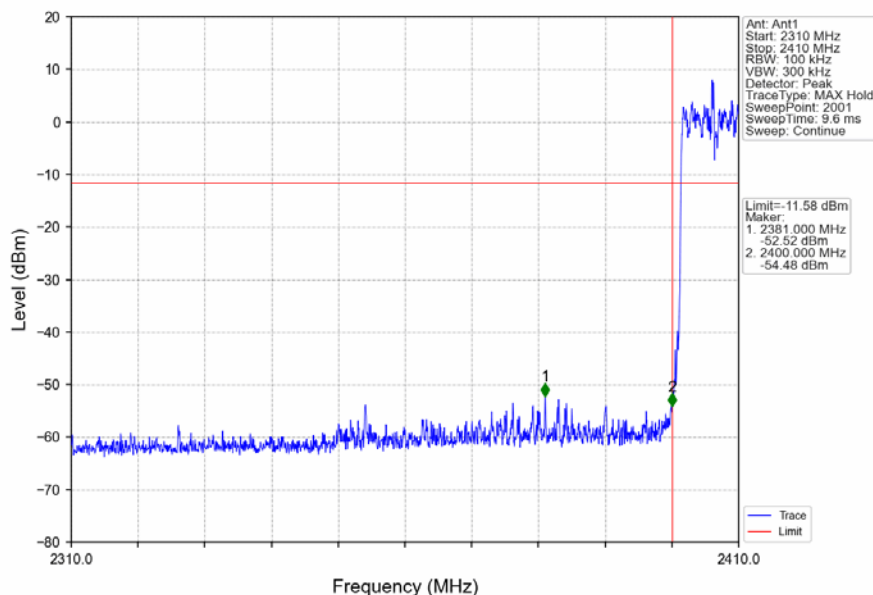


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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

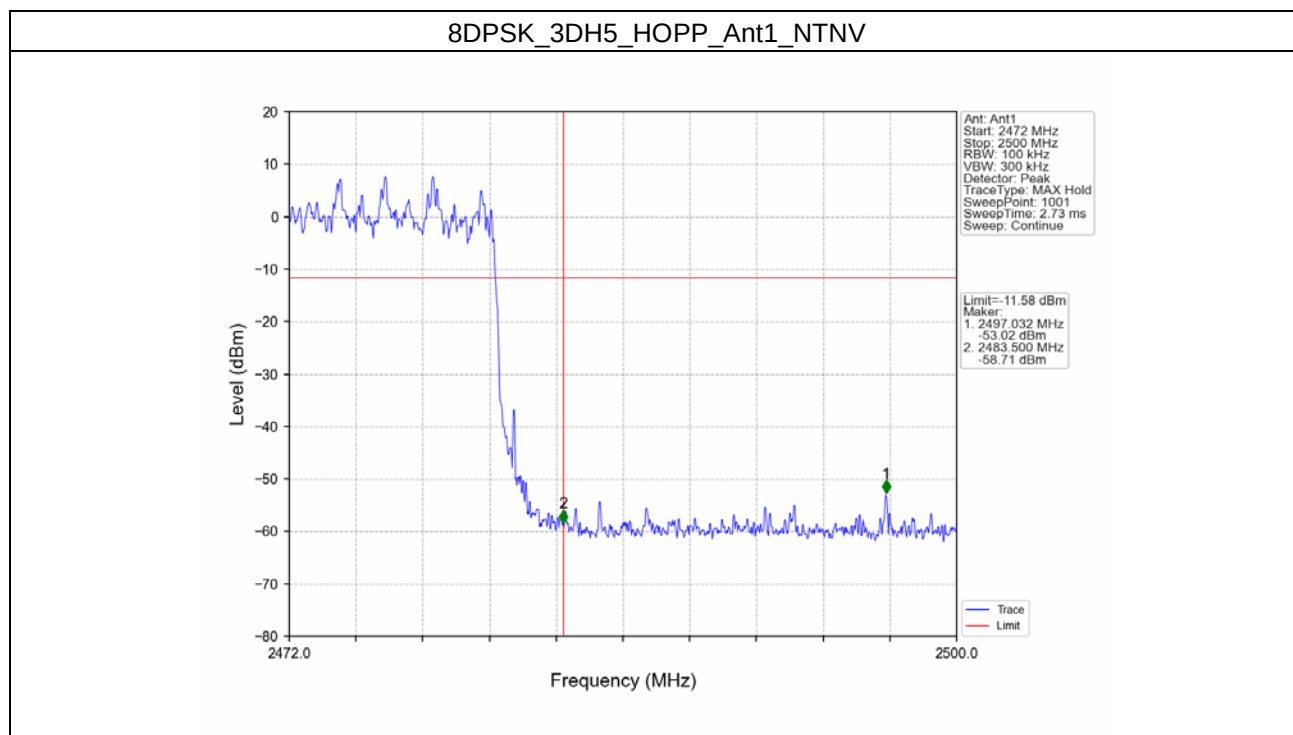


8DPSK_3DH5_HOPP_Ant1_NTNV



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- End of the Report -