



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Portable Speaker

Test Model: M9

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



Shenzhen LCS Compliance Testing Laboratory Ltd.
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A.1 -20dB Bandwidth

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.957	/	Pass
		2441	DH5	1	0.956	/	Pass
		2480	DH5	1	0.955	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.282	/	Pass
		2441	2DH5	1	1.282	/	Pass
		2480	2DH5	1	1.282	/	Pass
8DPSK	SISO	2402	3DH5	1	1.307	/	Pass
		2441	3DH5	1	1.307	/	Pass
		2480	3DH5	1	1.305	/	Pass



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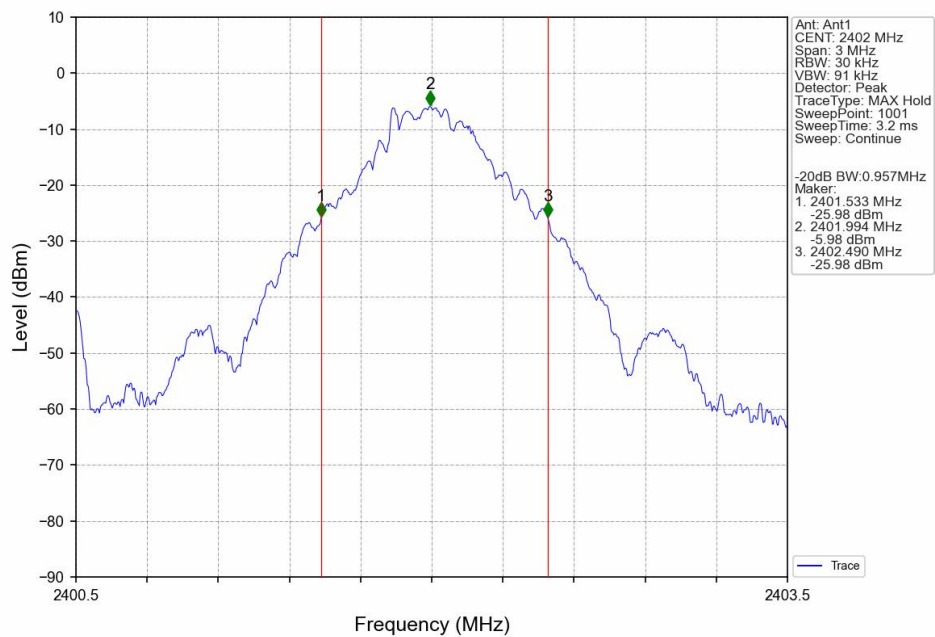
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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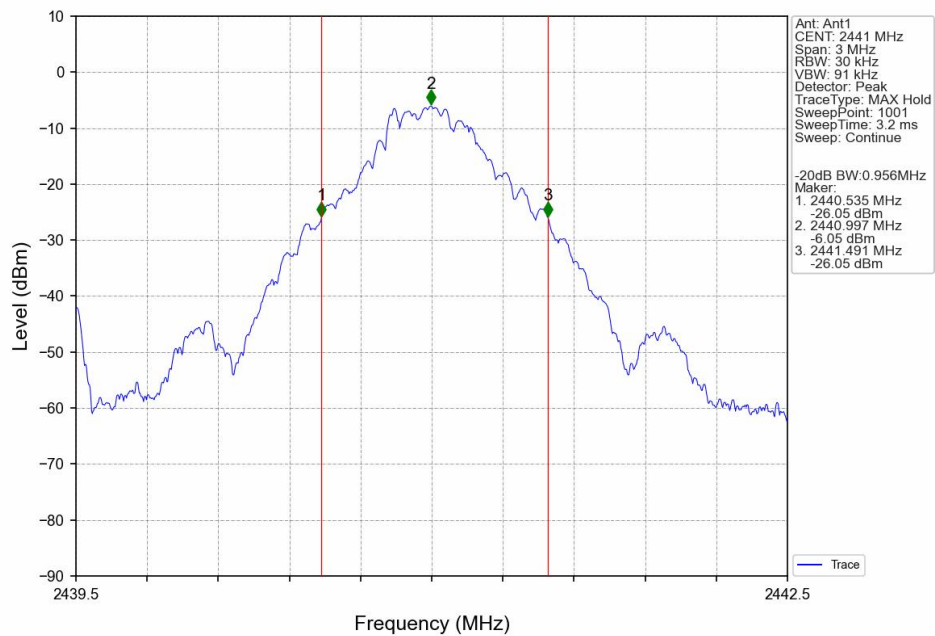
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GFSK_DH5_LCH_2402MHz_Ant1_NTNV

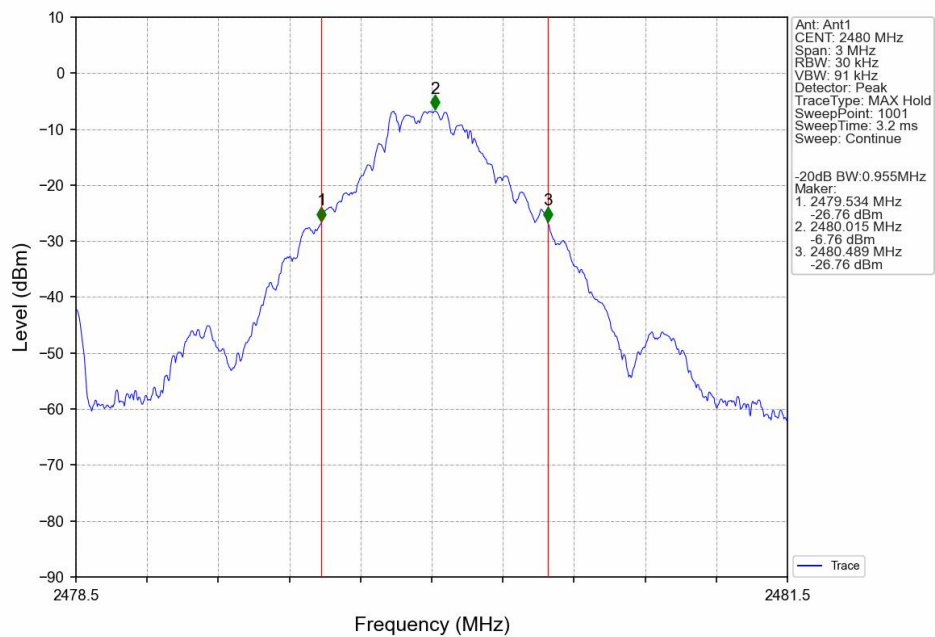


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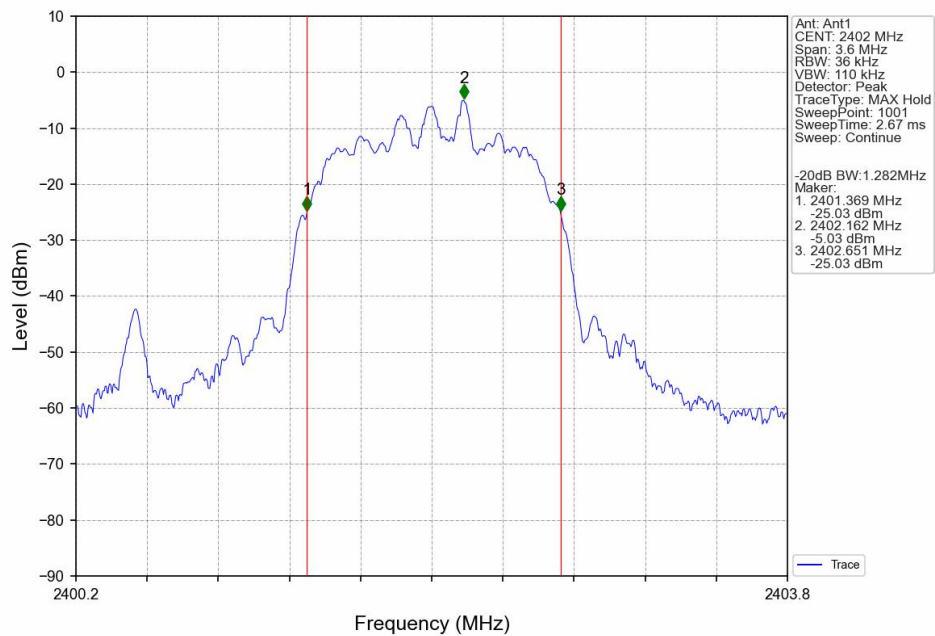




GFSK_DH5_HCH_2480MHz_Ant1_NTNV

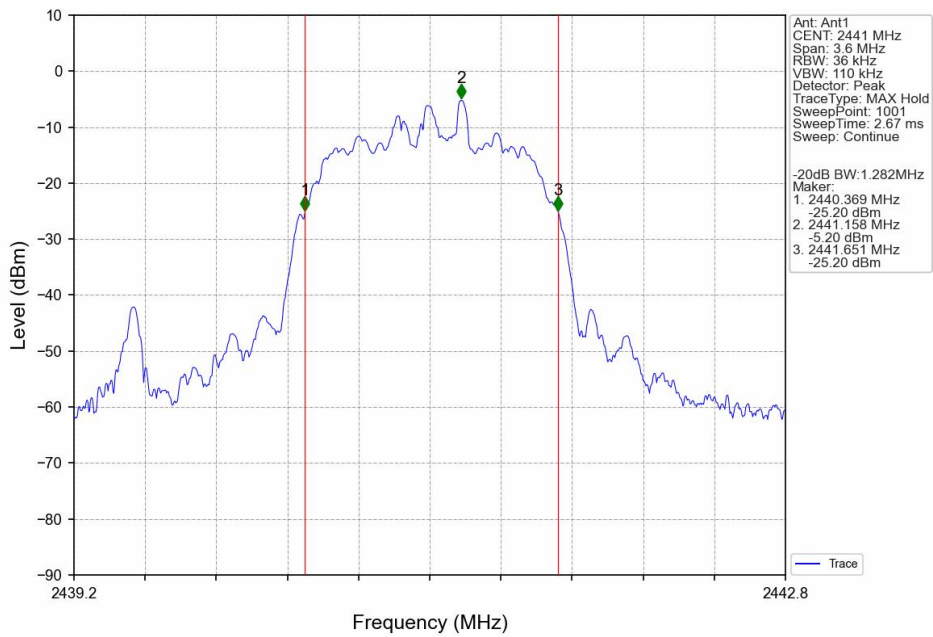


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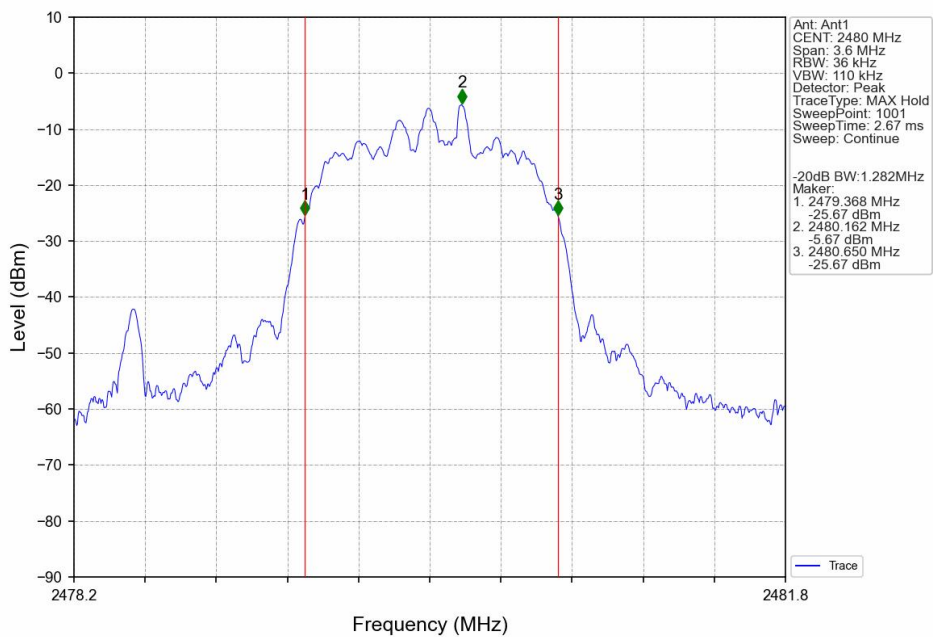




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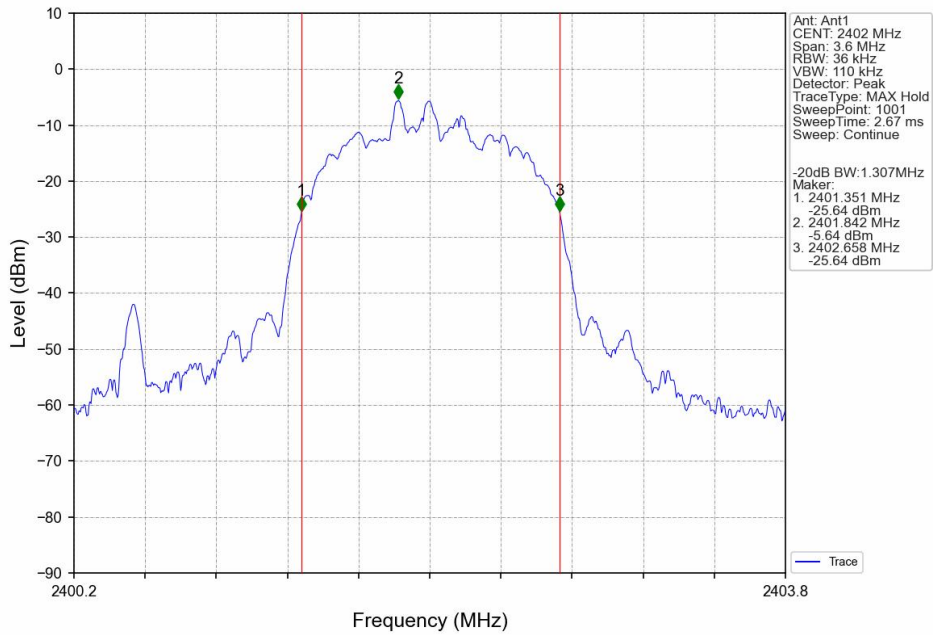


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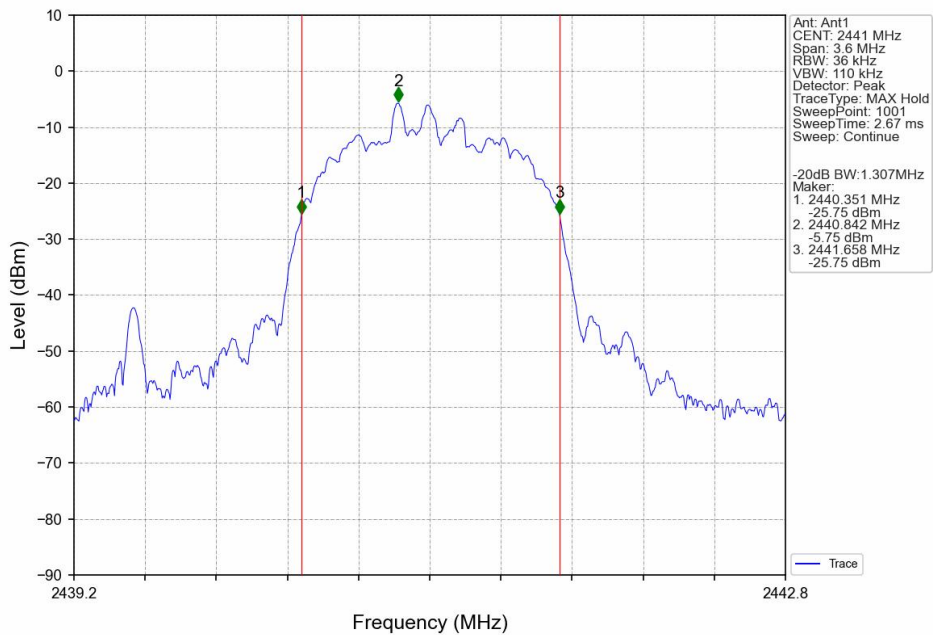




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

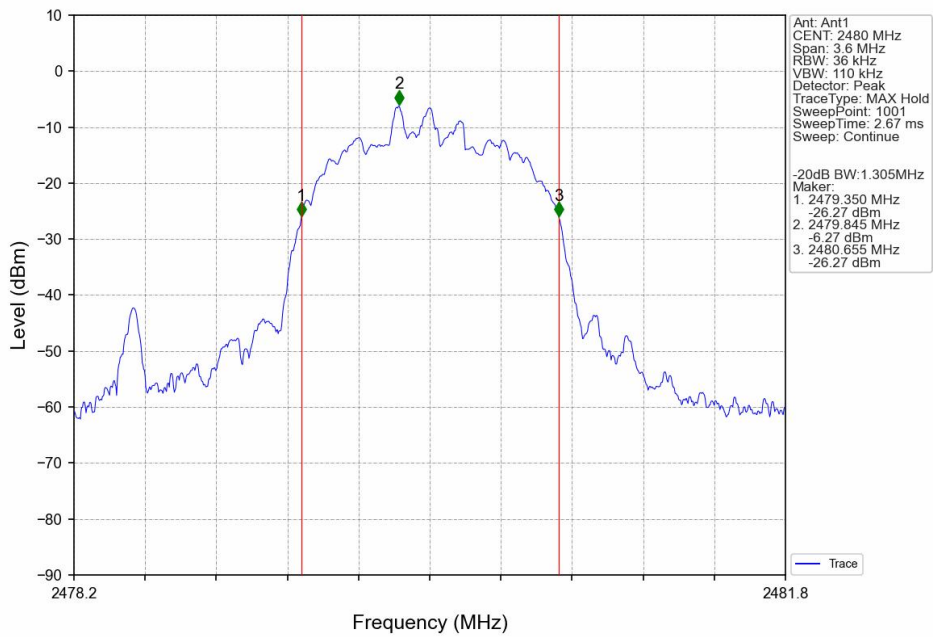


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV





8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV





A.2 Maximum Peak Conducted Output Power

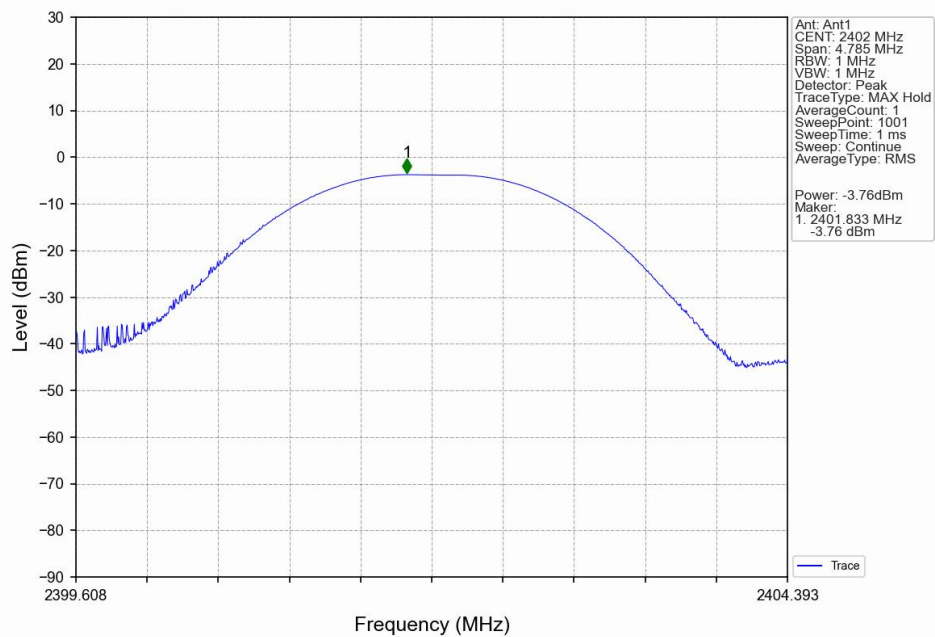
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-3.76	<=30	Pass
		2441	DH5	-3.92	<=30	Pass
		2480	DH5	-4.37	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	-2.81	<=20.97	Pass
		2441	2DH5	-2.96	<=20.97	Pass
		2480	2DH5	-3.42	<=20.97	Pass
8DPSK	SISO	2402	3DH5	-2.43	<=20.97	Pass
		2441	3DH5	-2.57	<=20.97	Pass
		2480	3DH5	-3.04	<=20.97	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

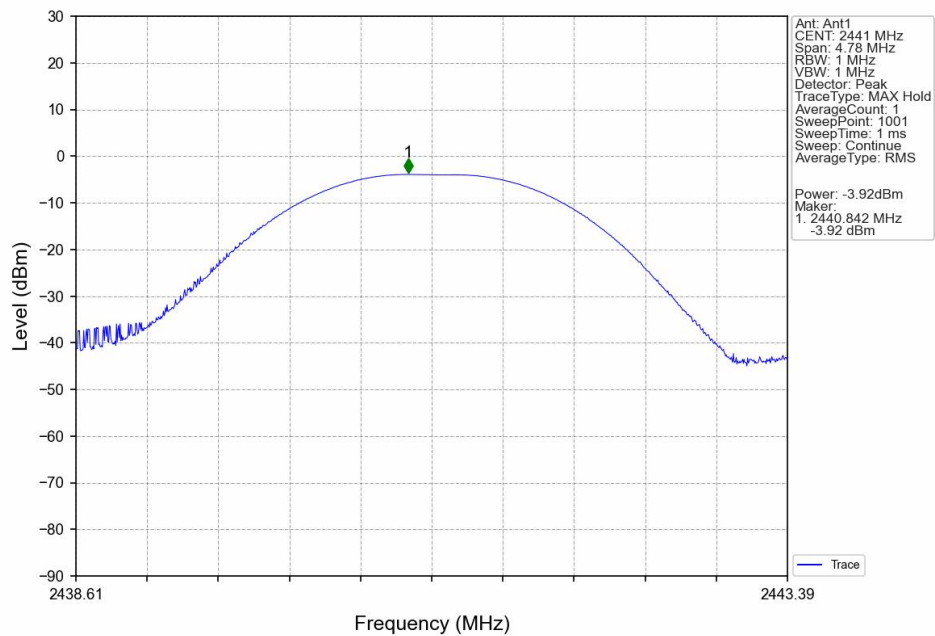




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

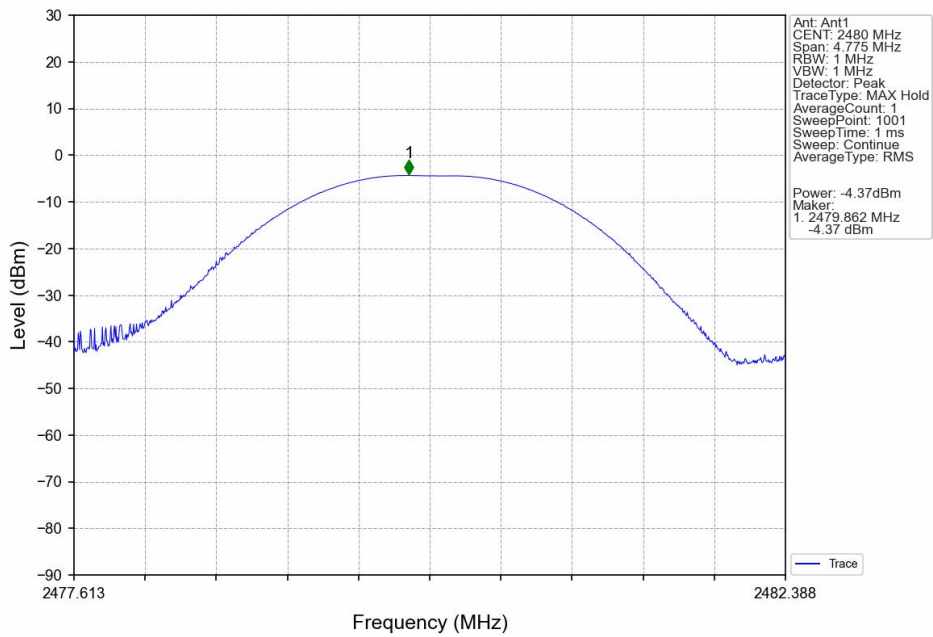


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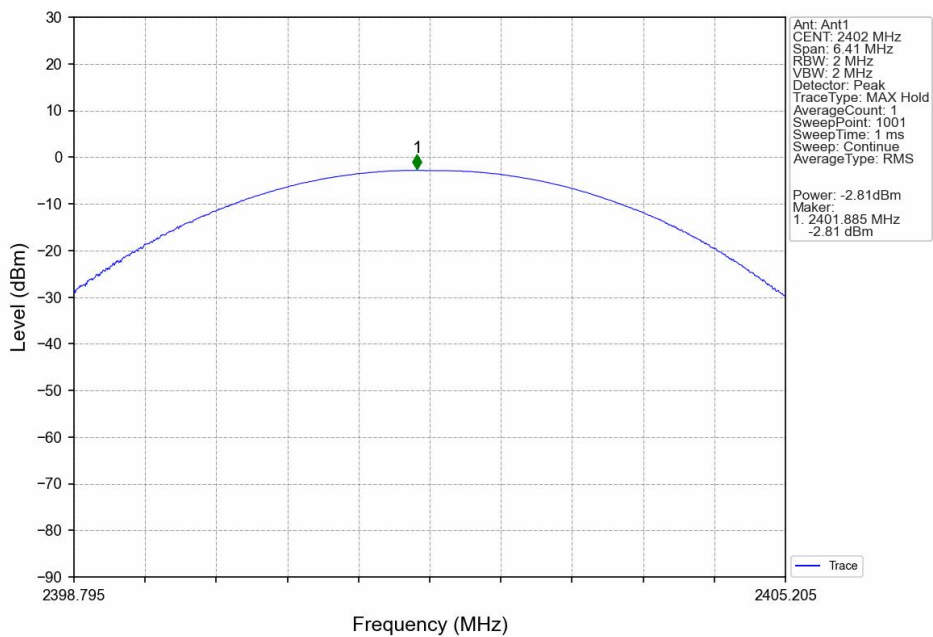




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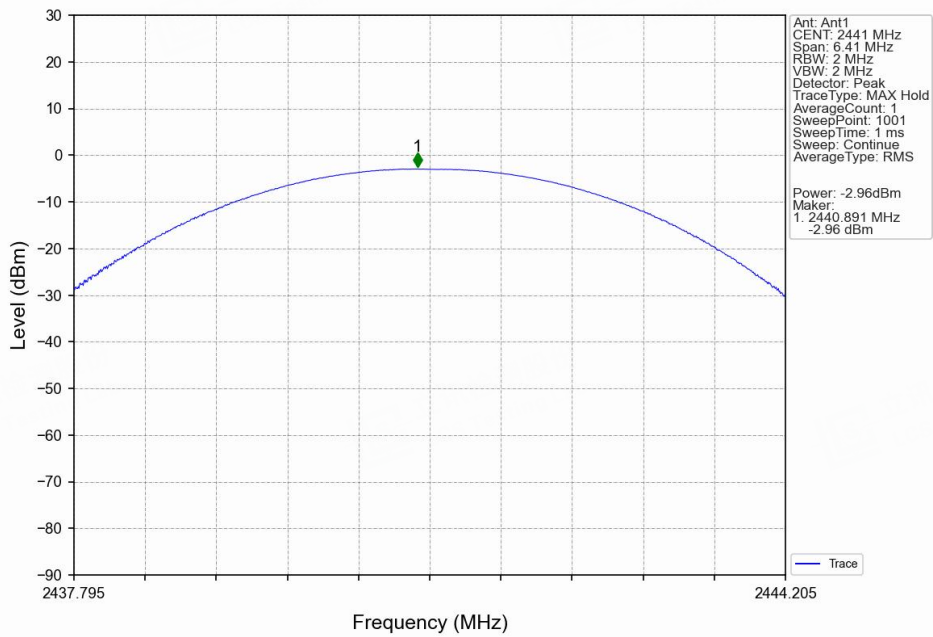


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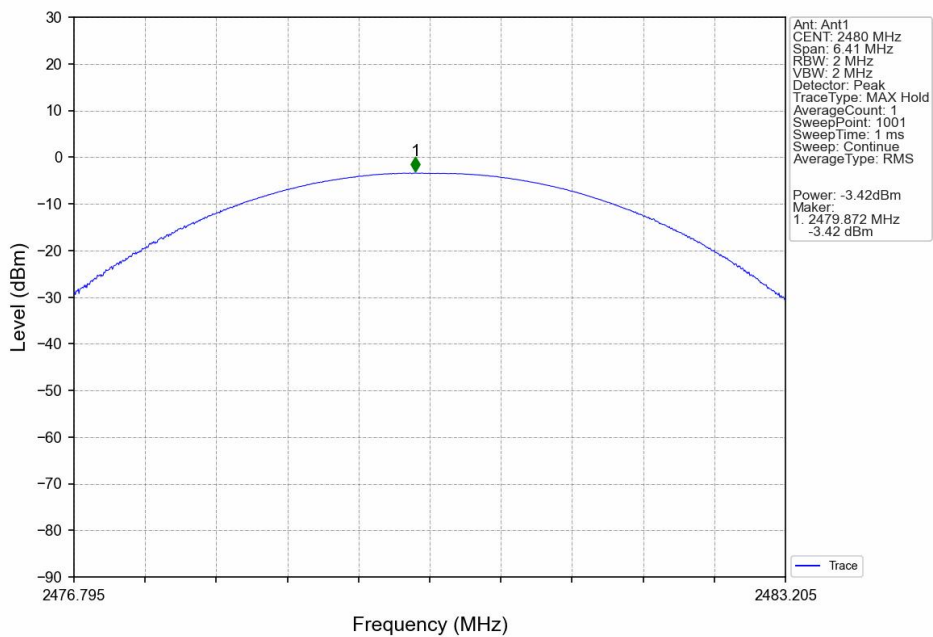




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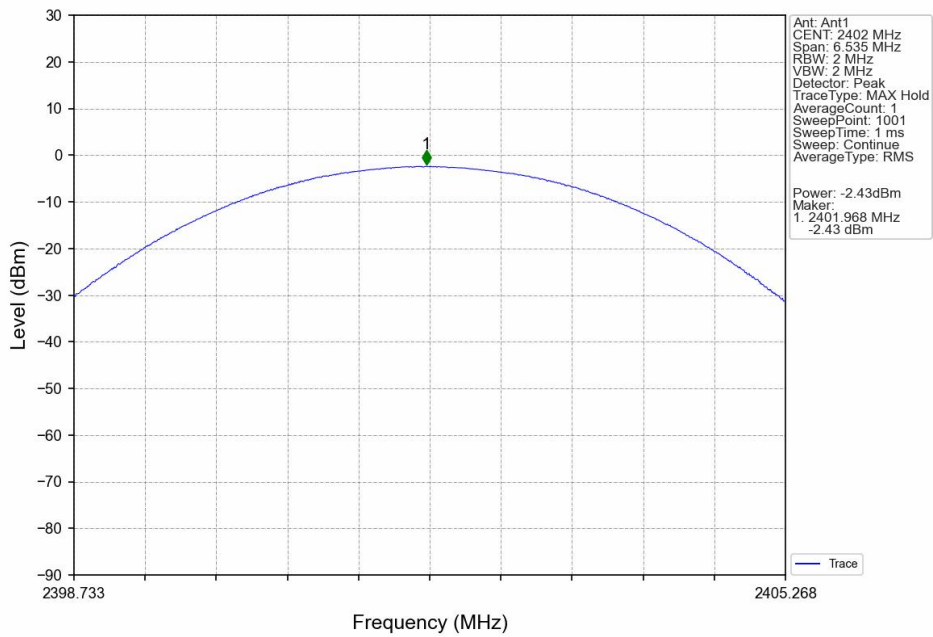


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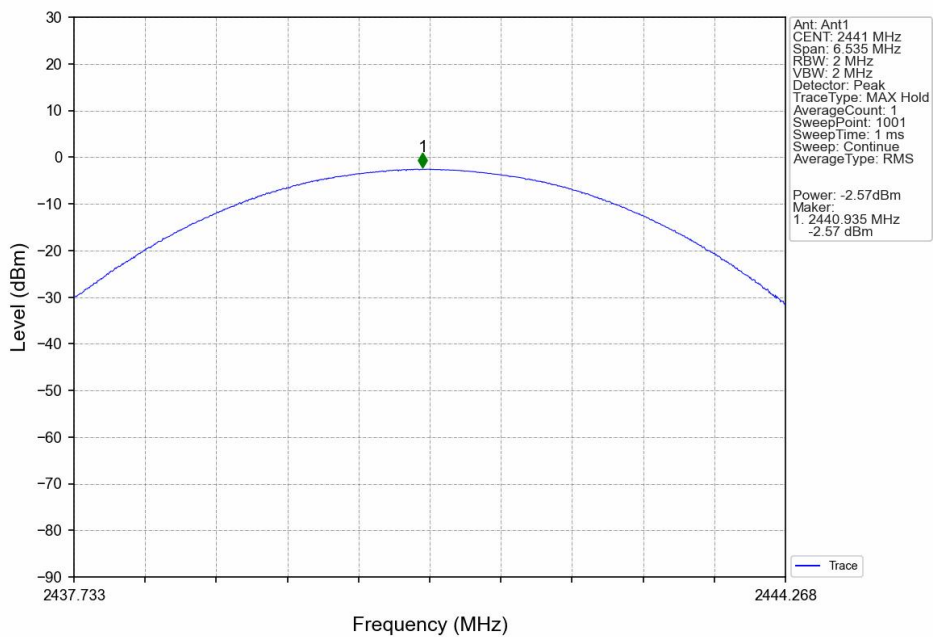




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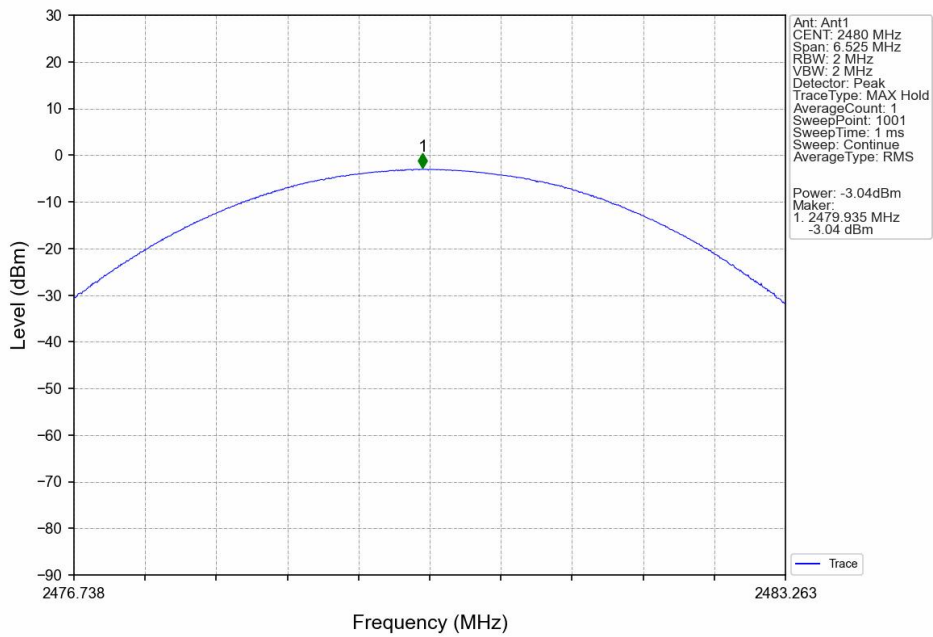


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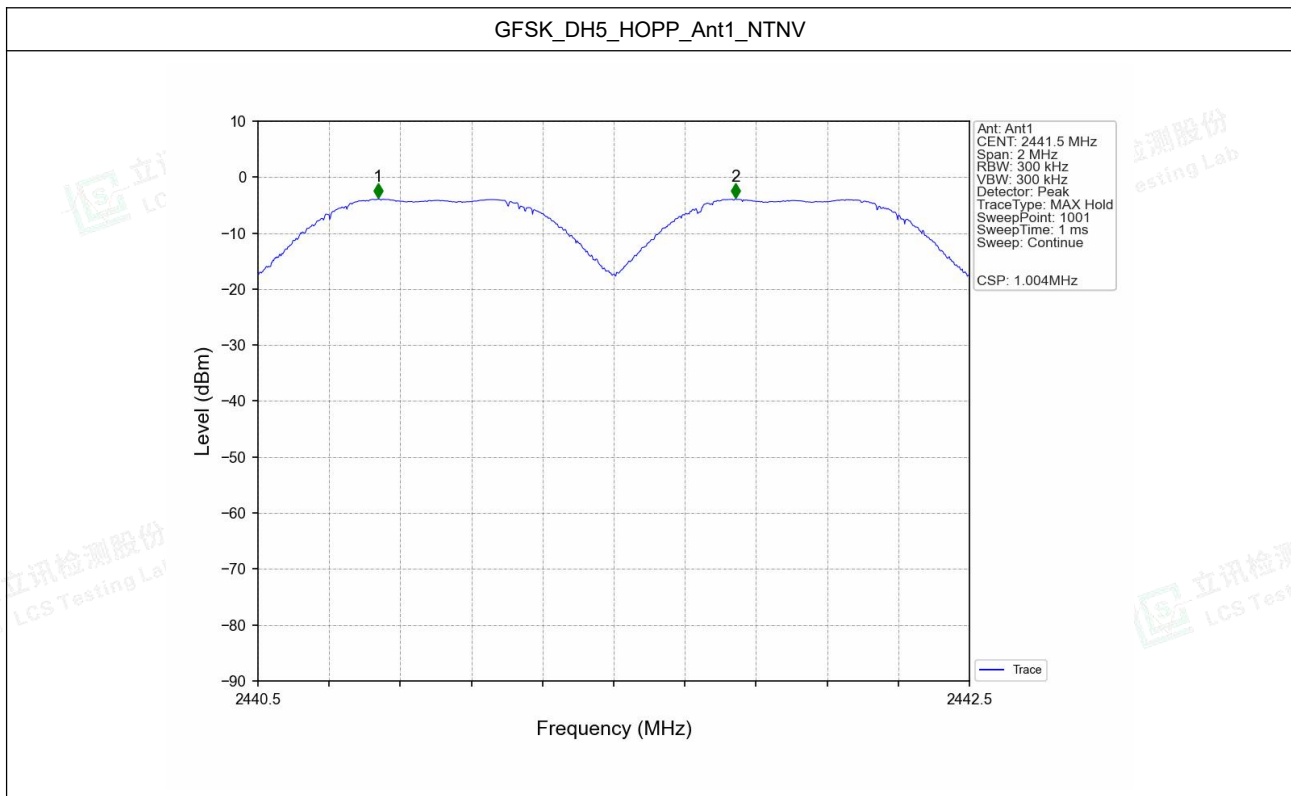
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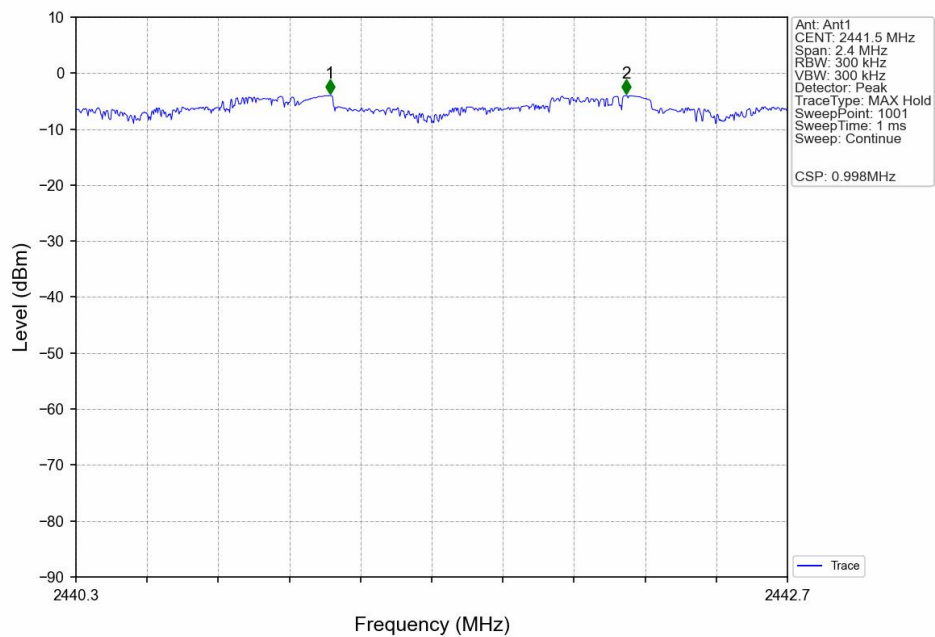
A.3 Carrier Frequencies Separation

Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.004	0.957	≥ 0.957	Pass
PI/4DQPSK	SISO	HOPP	2DH5	0.998	1.282	≥ 0.855	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.307	≥ 0.871	Pass

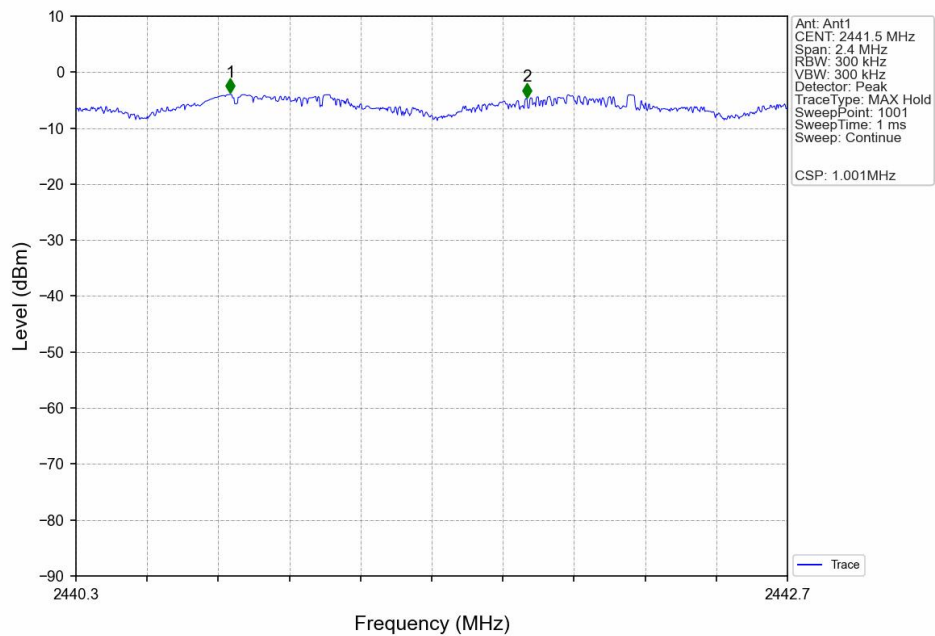




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





A.4 Dwell Time

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	2.886	31.600	112	323.232	<=400	Pass
PI/4DQPSK	SISO	HOPP	2DH5	2.896	31.600	117	338.832	<=400	Pass
8DPSK	SISO	HOPP	3DH5	2.898	31.600	110	318.780	<=400	Pass



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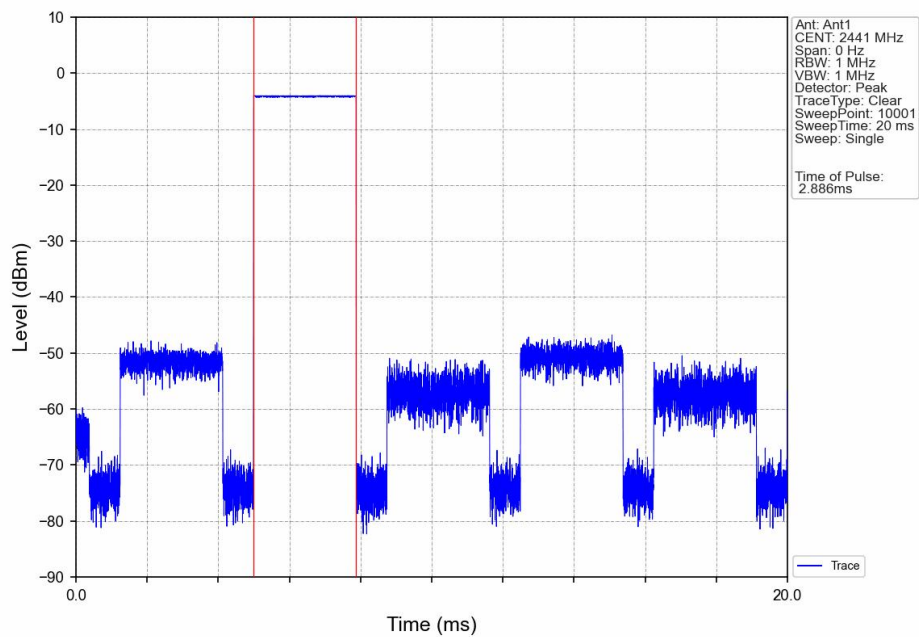
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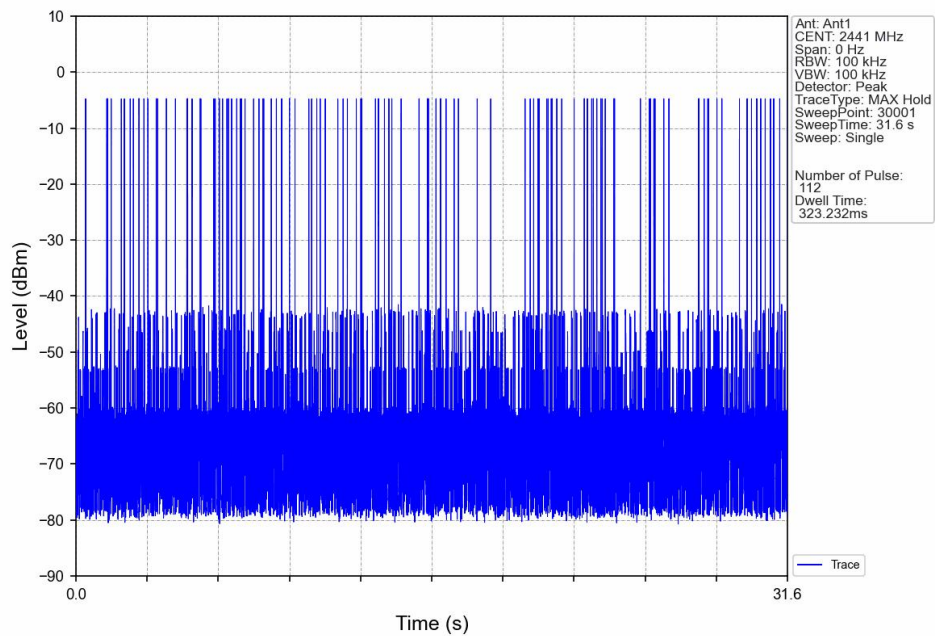
Scan code to check authenticity



GFSK_DH5_HOPP_Ant1_NTNV

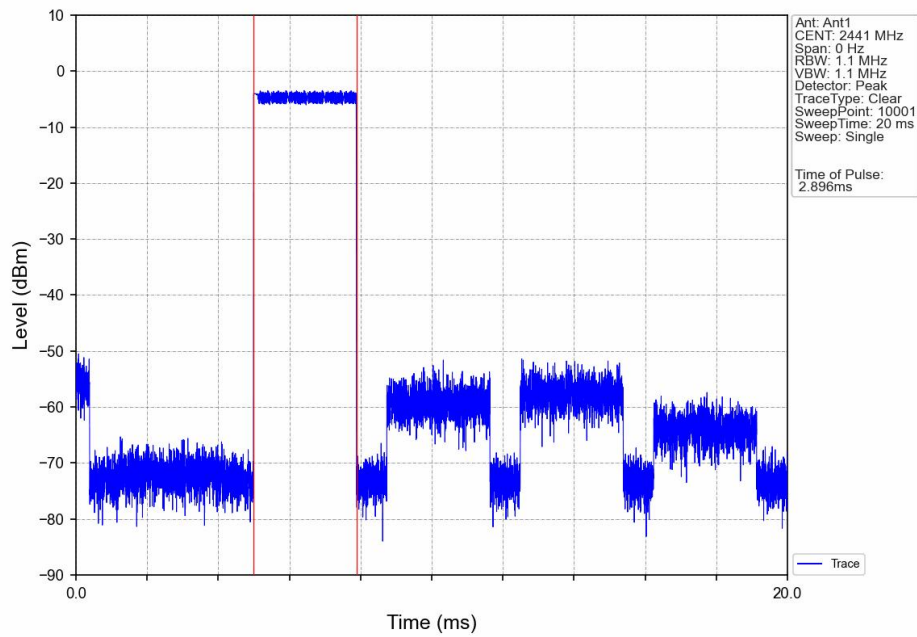


GFSK_DH5_HOPP_Ant1_NTNV

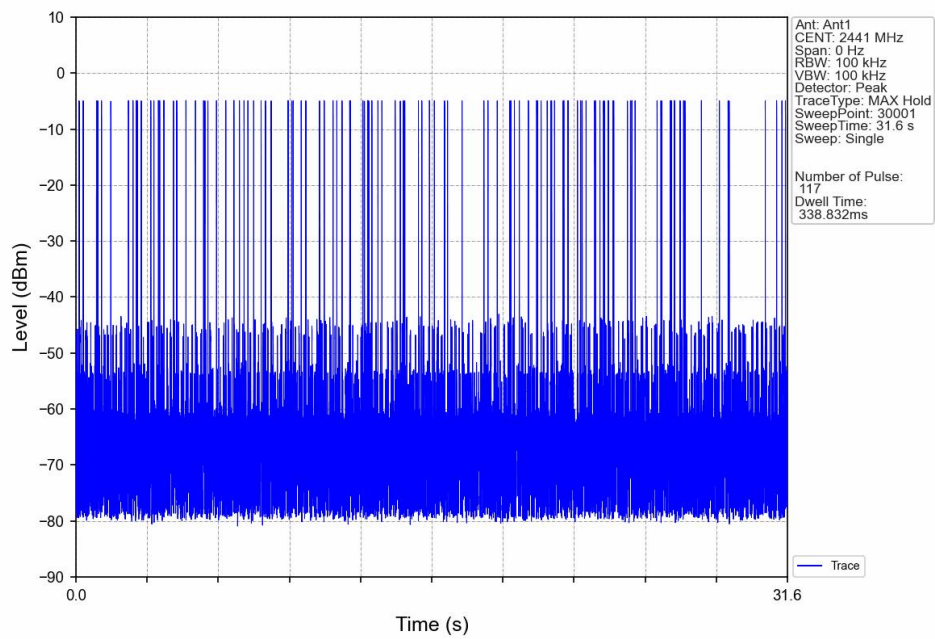




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

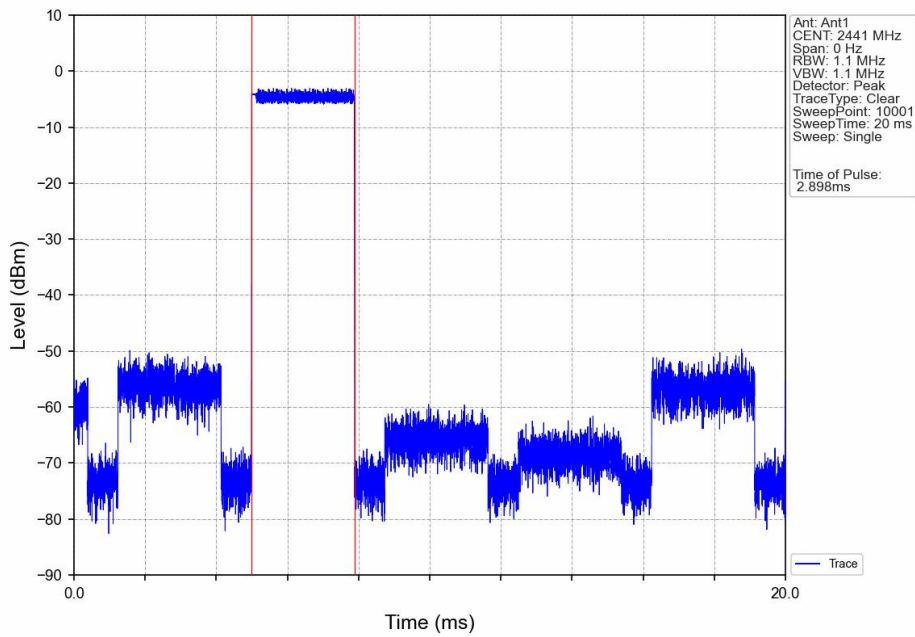


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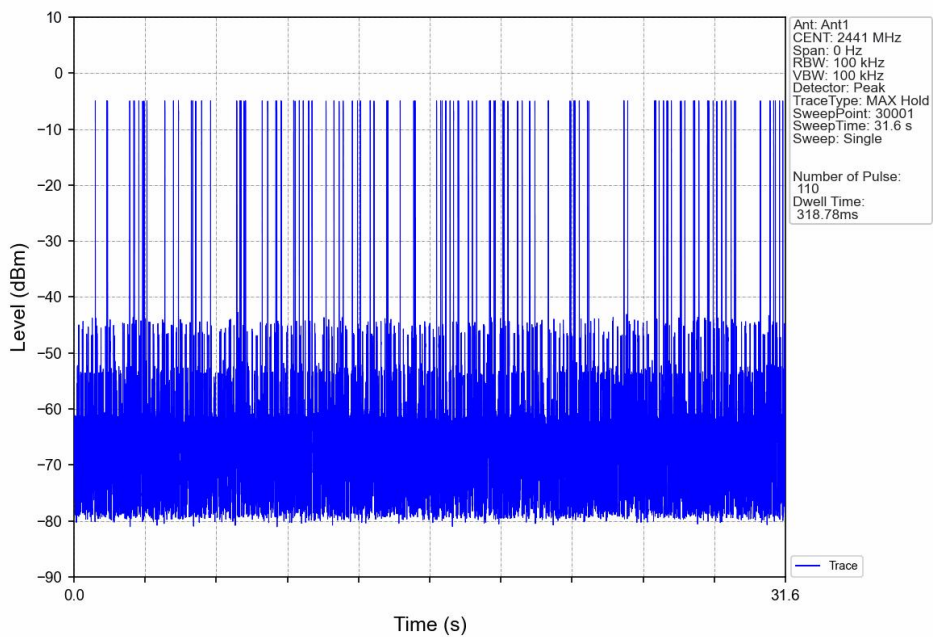




8DPSK_3DH5_HOPP_Ant1_NTNV



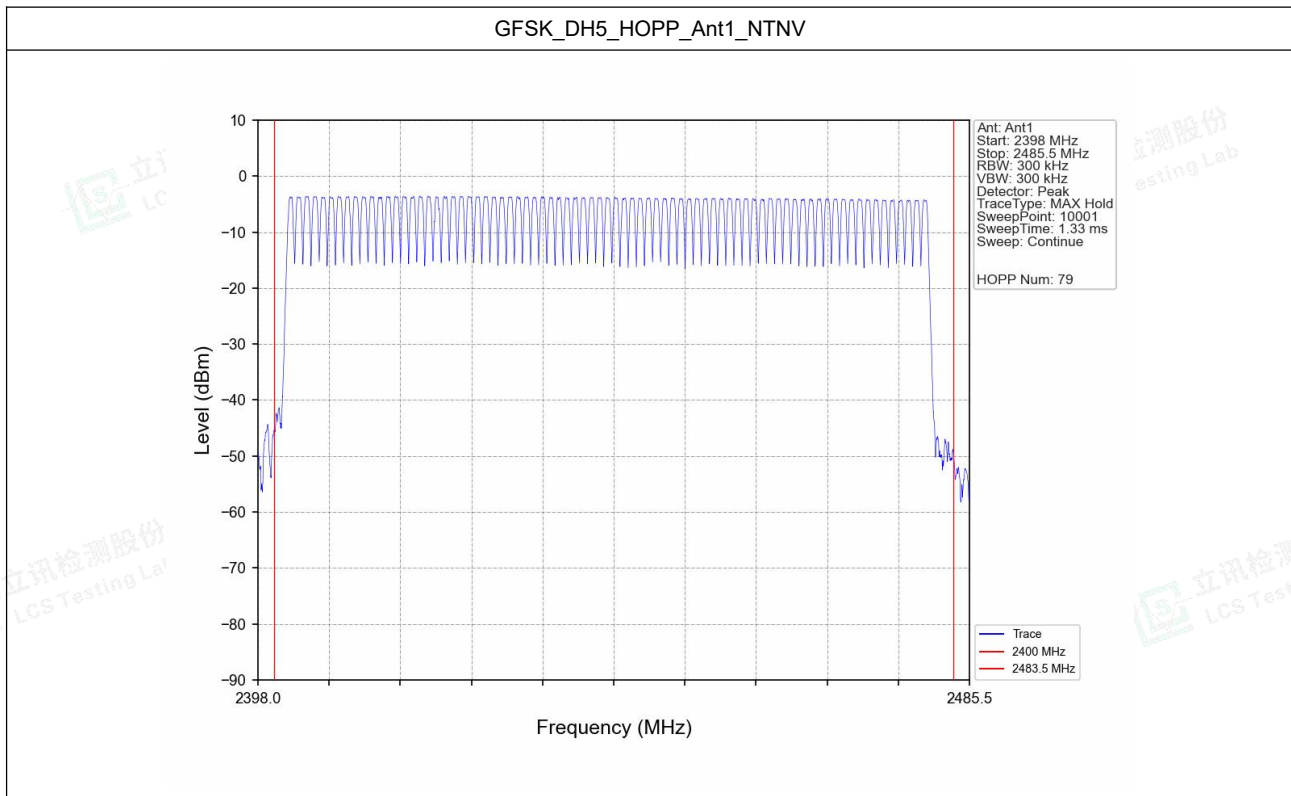
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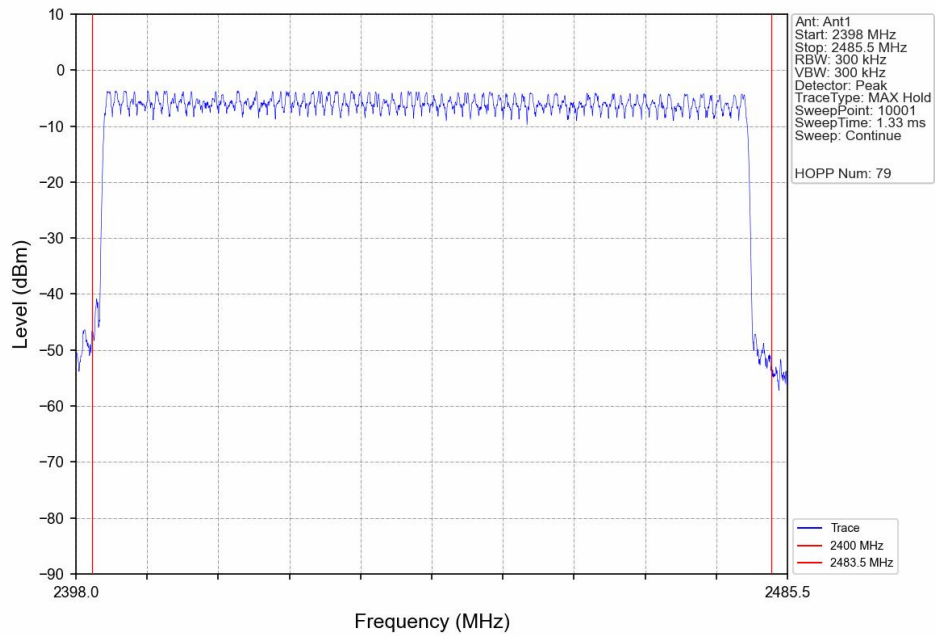
A.5 Number of Hopping Channel

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

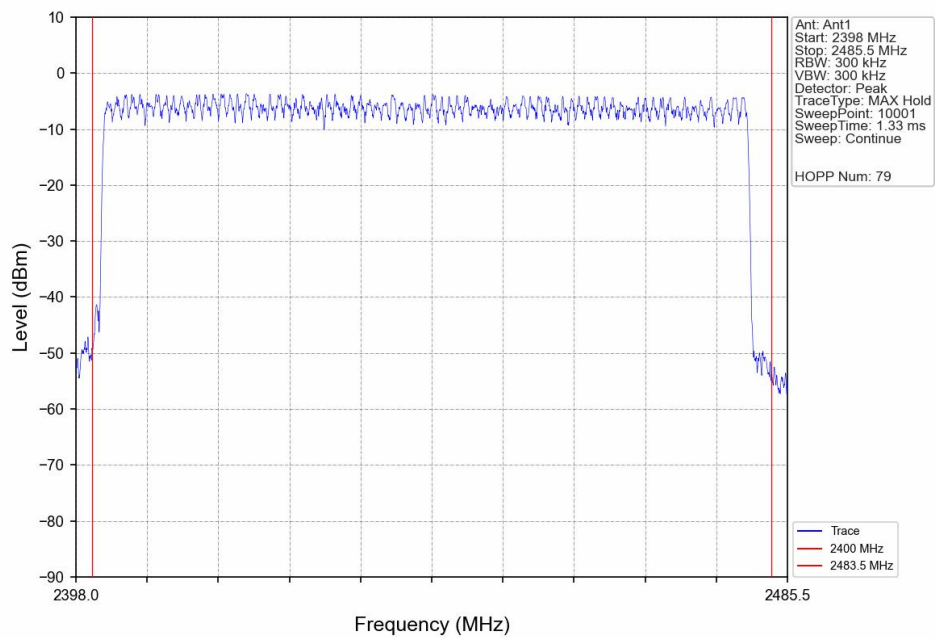




Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV





A.6 Band Edge

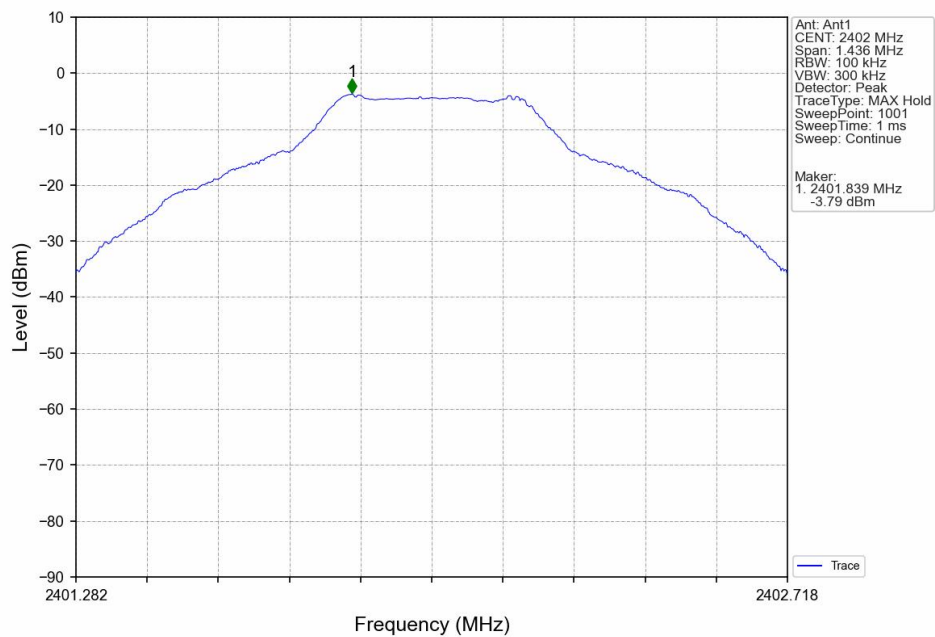
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-3.79	-23.79	Pass
		2441	DH5	1	-3.79	-23.79	Pass
		2480	DH5	1	-3.79	-23.79	Pass
		HOPP	DH5	1	-3.79	-23.79	Pass
					-3.79	-23.79	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	-3.86	-23.86	Pass
		2441	2DH5	1	-3.86	-23.86	Pass
		2480	2DH5	1	-3.86	-23.86	Pass
		HOPP	2DH5	1	-3.86	-23.86	Pass
					-3.86	-23.86	Pass
8DPSK	SISO	2402	3DH5	1	-3.81	-23.81	Pass
		2441	3DH5	1	-3.81	-23.81	Pass
		2480	3DH5	1	-3.81	-23.81	Pass
		HOPP	3DH5	1	-3.81	-23.81	Pass
					-3.81	-23.81	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.

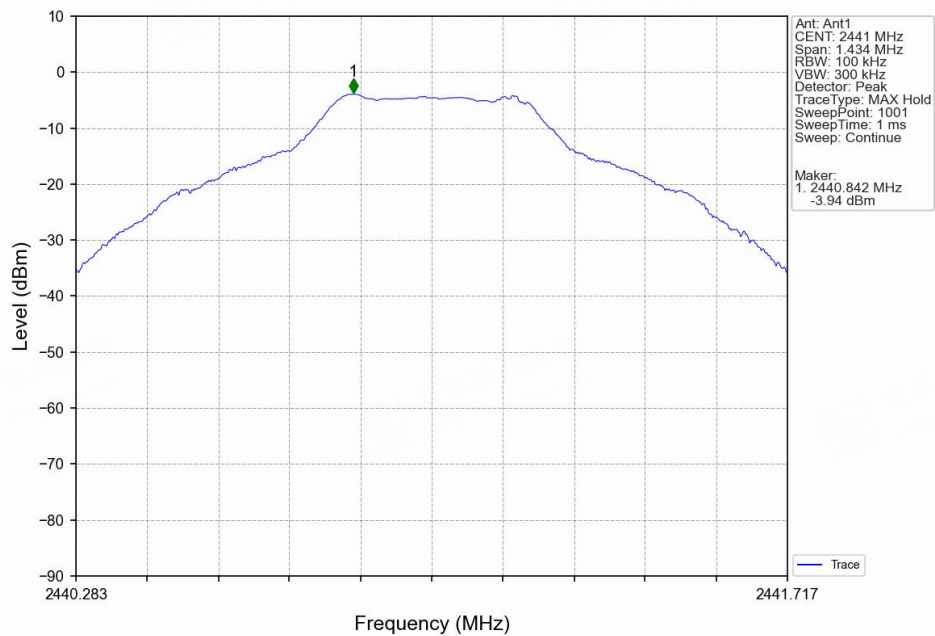




GFSK_DH5_LCH_2402MHz_Ant1_NTNV

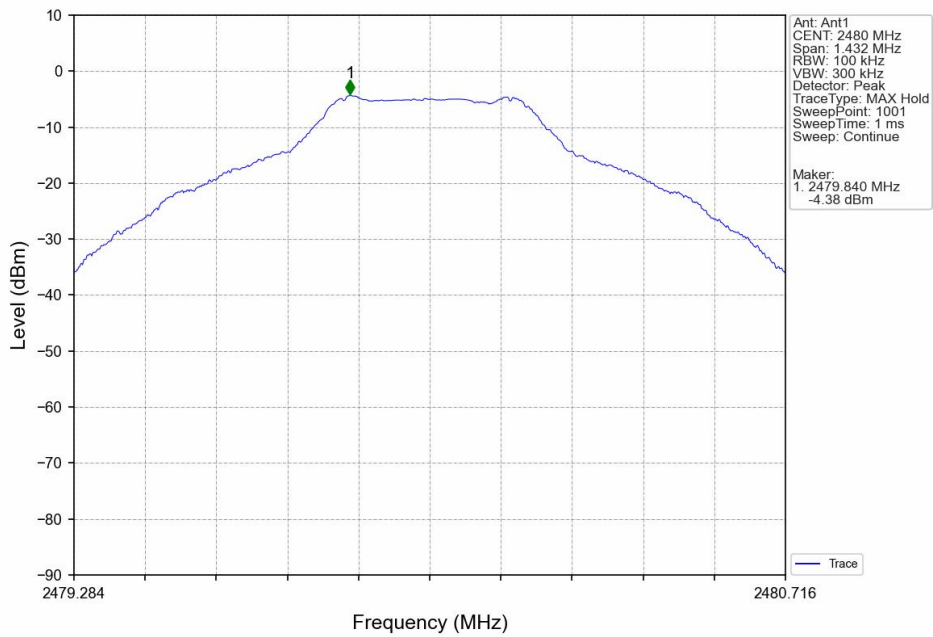


GFSK_DH5_MCH_2441MHz_Ant1_NTNV

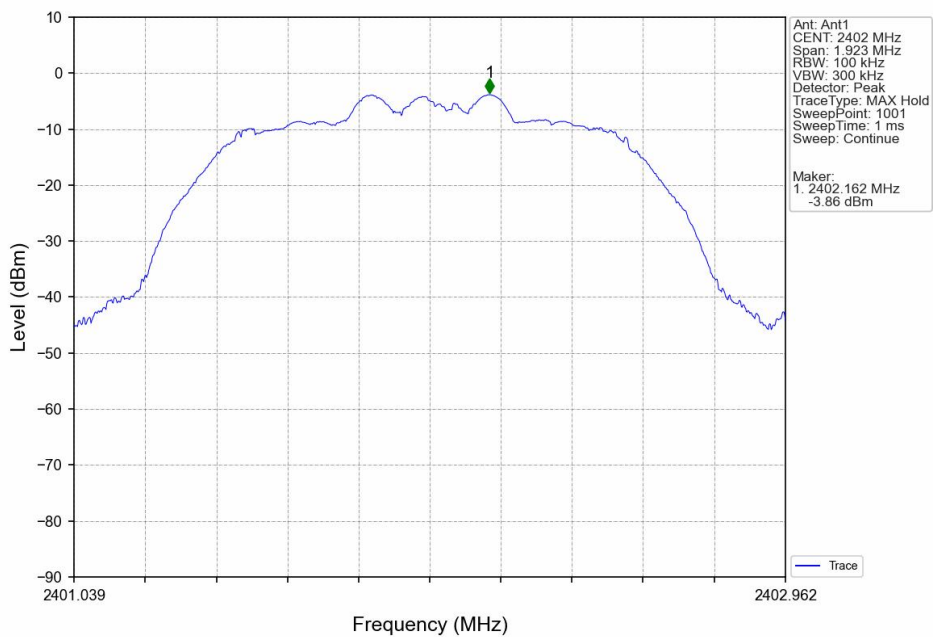




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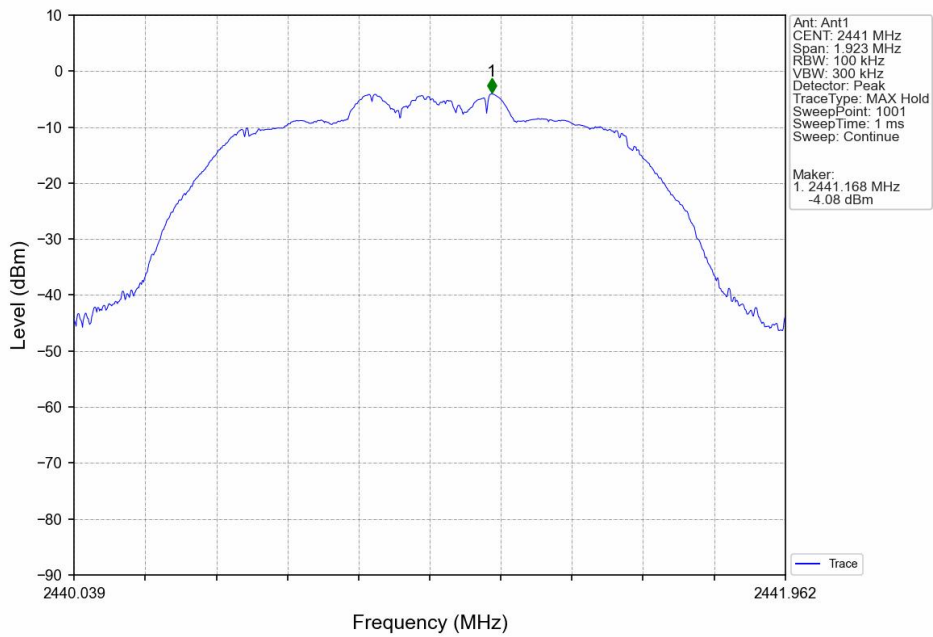


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

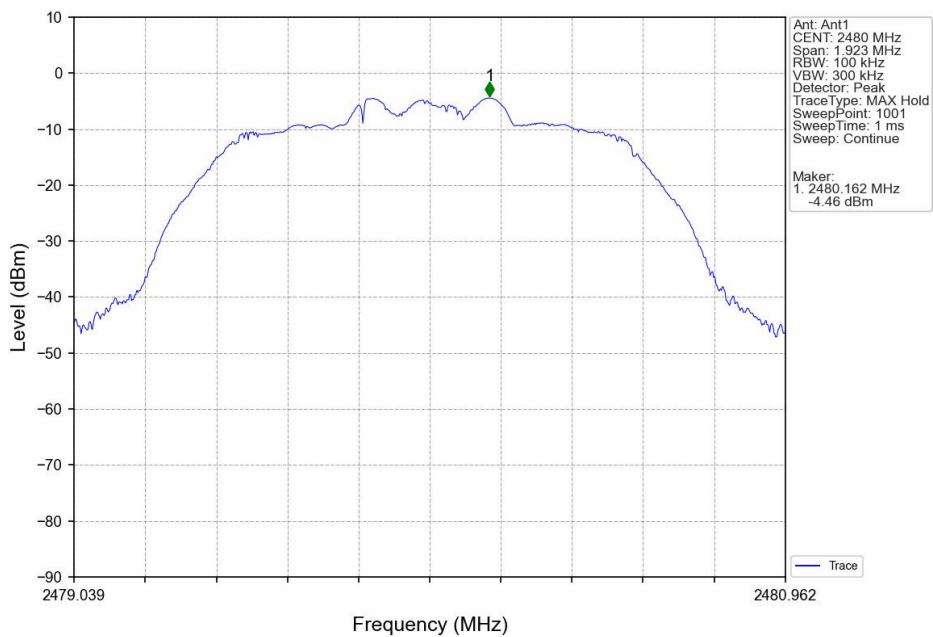




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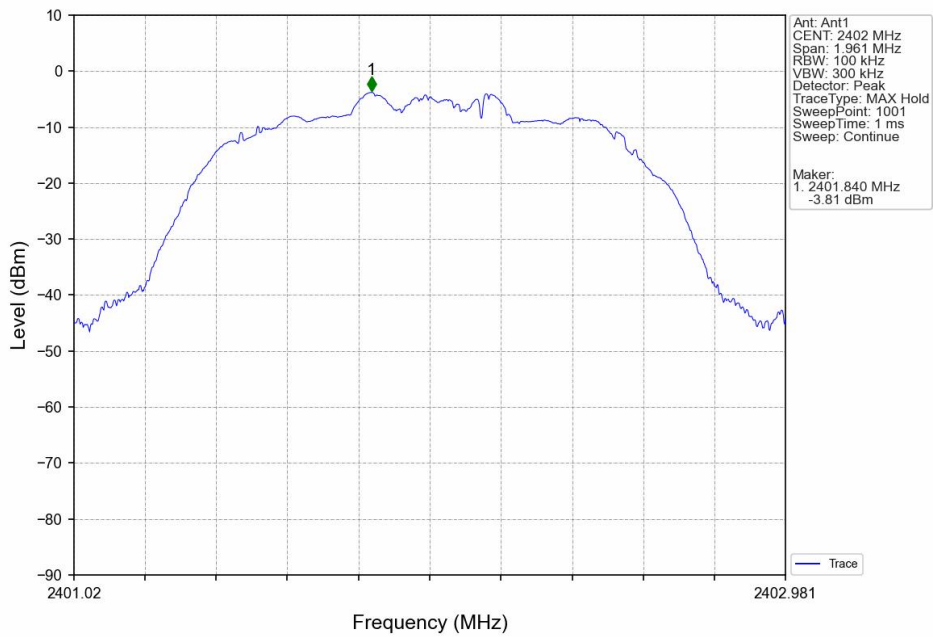


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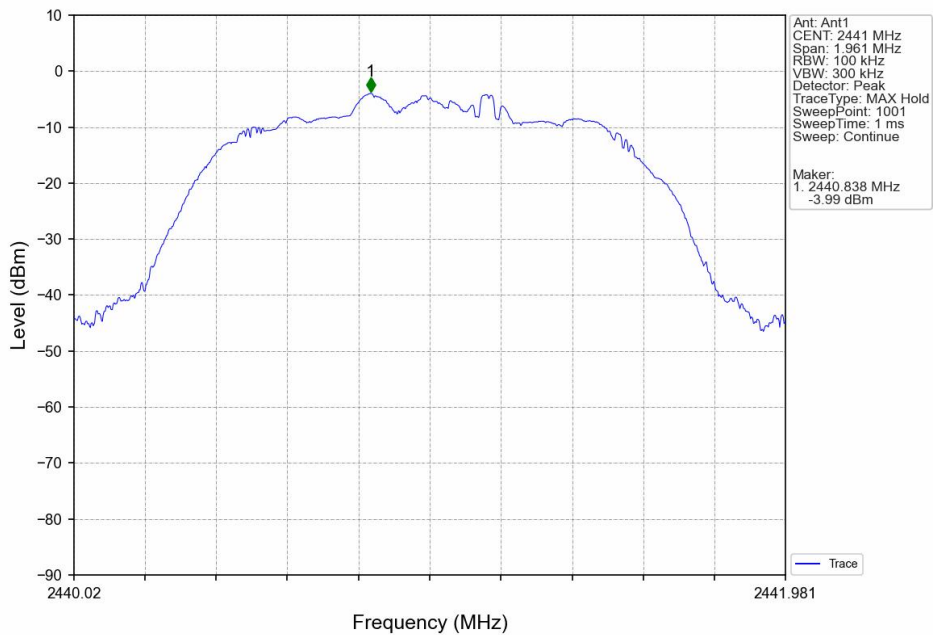




8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

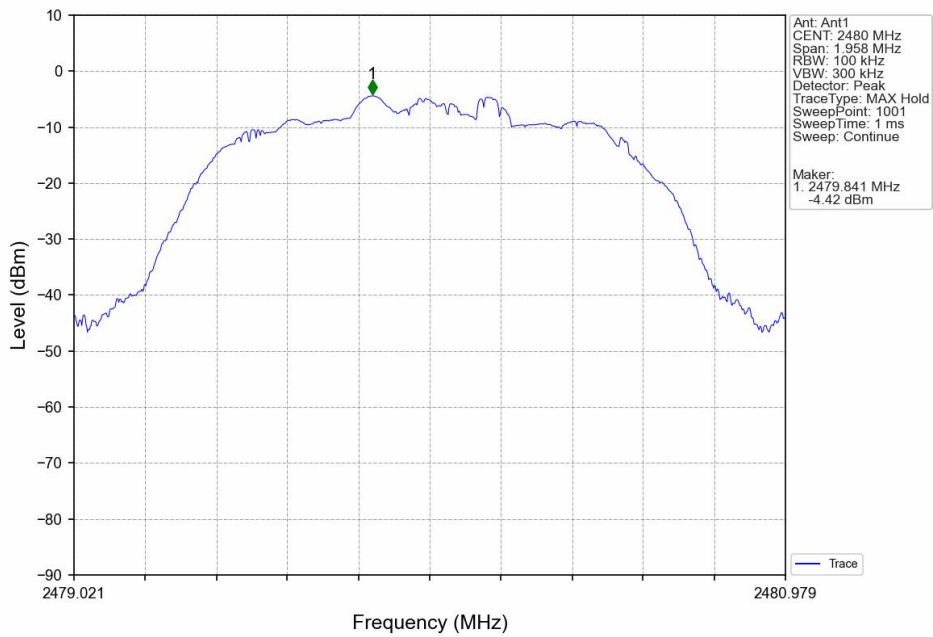


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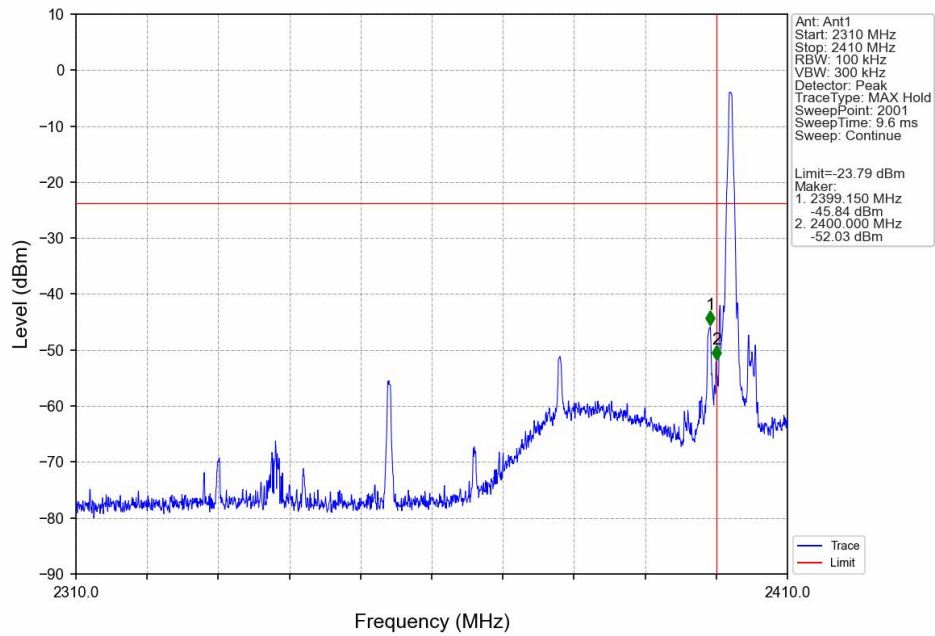


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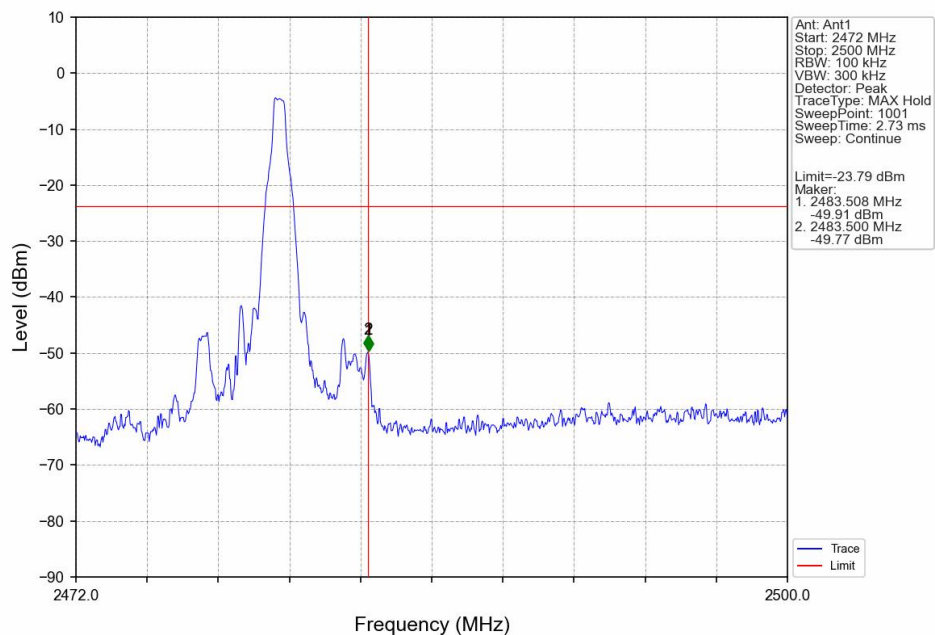




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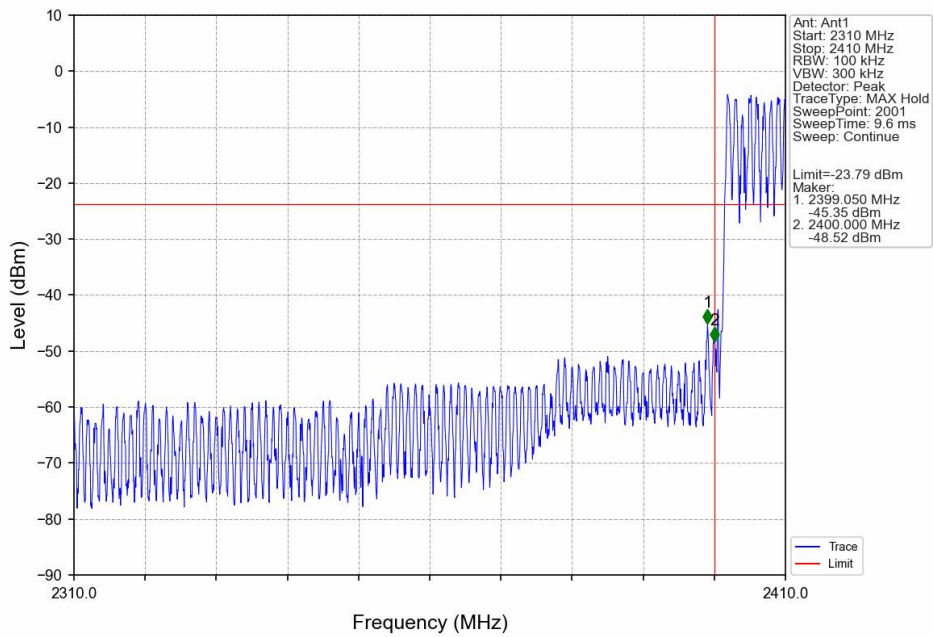


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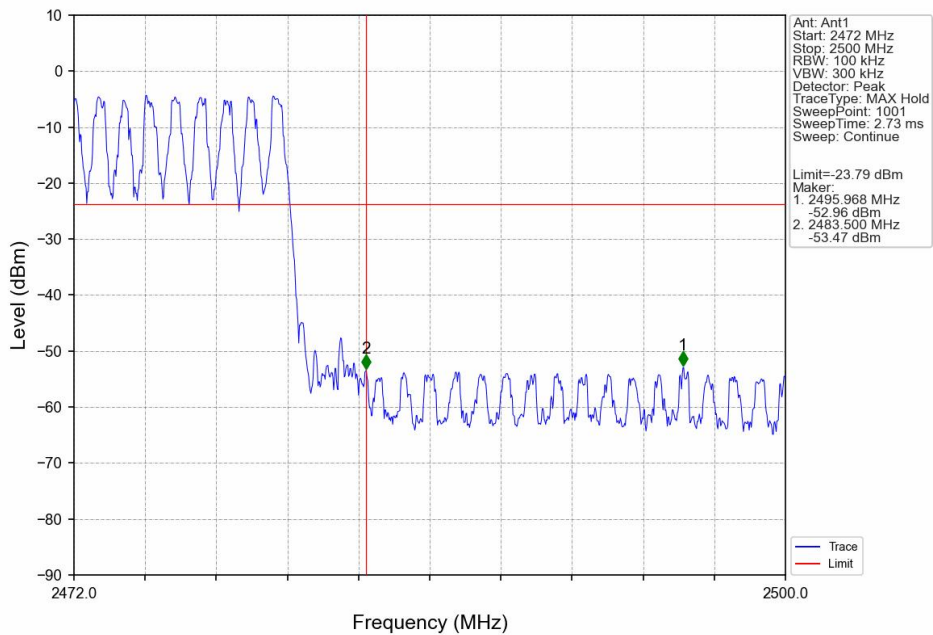




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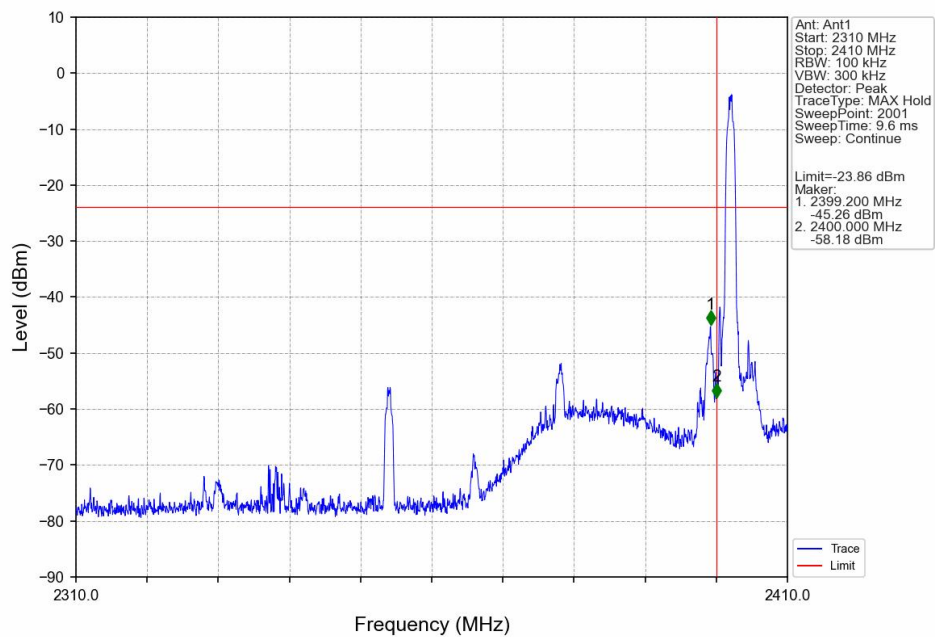


GFSK_DH5_HOPP_Ant1_NTNV





Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

