

4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

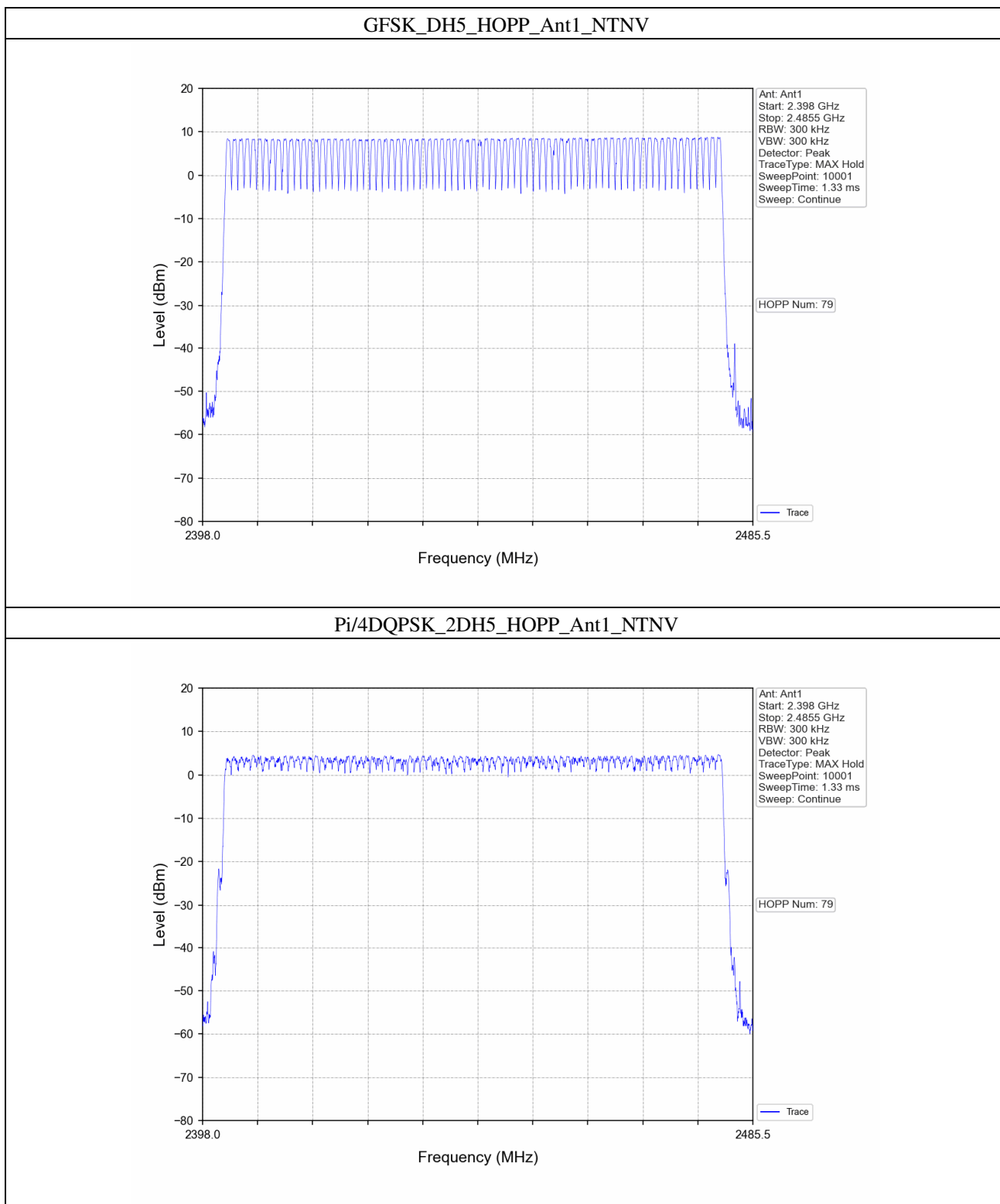
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				Ant1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass



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4.1.2 Test Graph

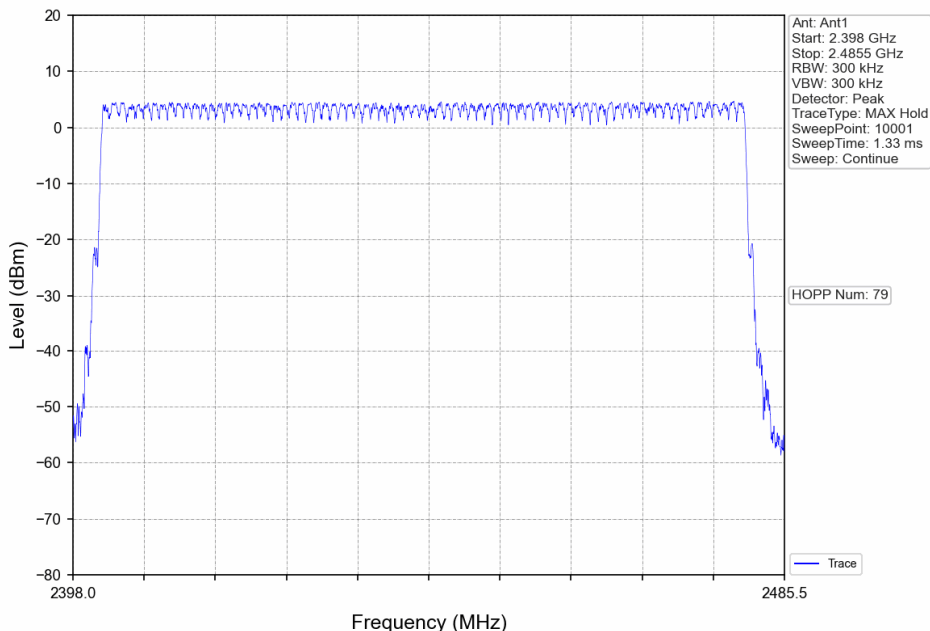


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Guangzhou Branch Testing Center EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

8DPSK_3DH5_HOPP_Ant1_NTNV



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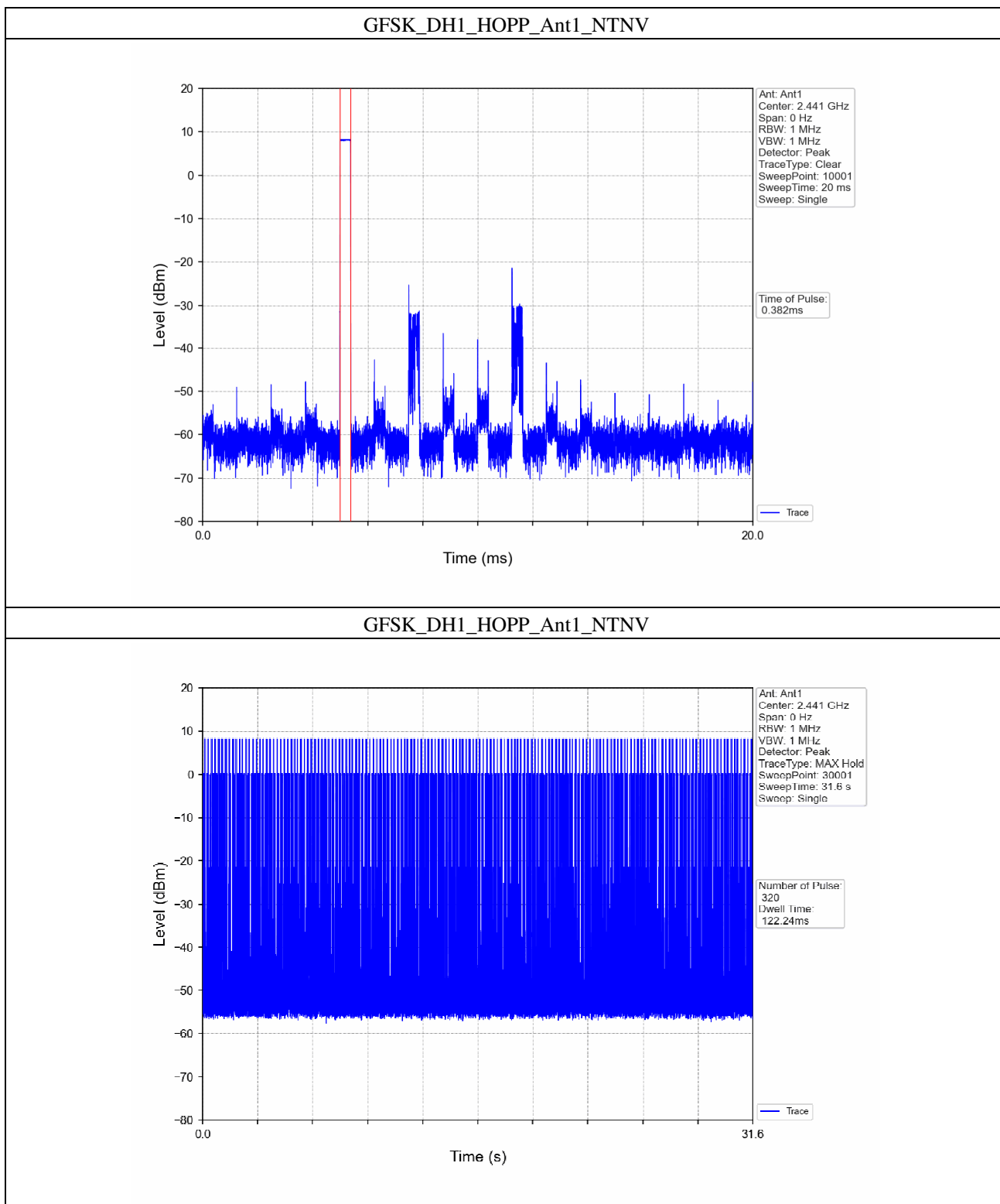
5. Time of Occupancy (Dwell Time)

5.1 Ant1

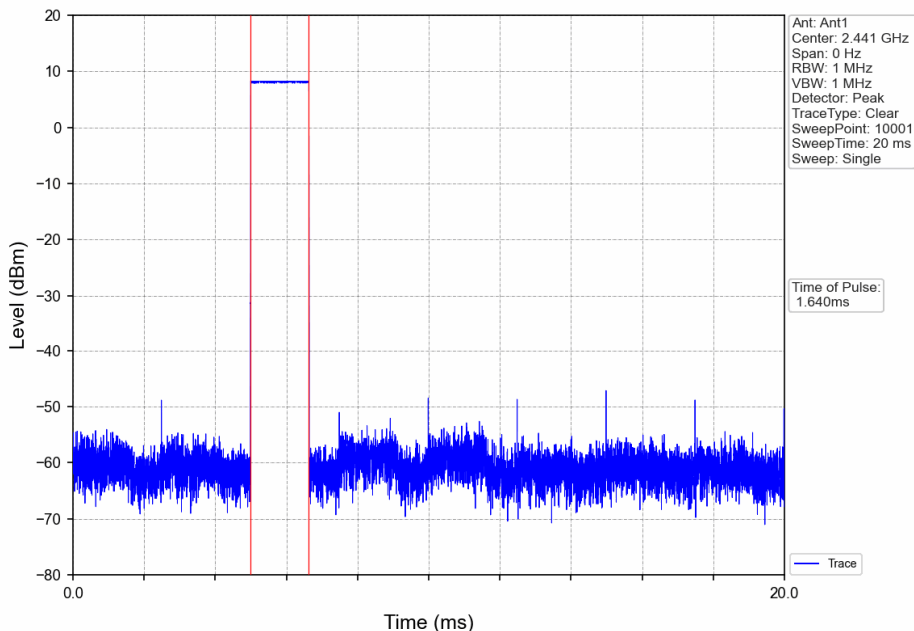
5.1.1 Test Result

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	0.382	31.600	320	122.240	<=400	Pass
			DH3	1.640	31.600	163	267.320	<=400	Pass
			DH5	2.886	31.600	107	308.802	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.386	31.600	321	123.906	<=400	Pass
			2DH3	1.638	31.600	161	263.718	<=400	Pass
			2DH5	2.884	31.600	104	299.936	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.386	31.600	320	123.520	<=400	Pass
			3DH3	1.636	31.600	166	271.576	<=400	Pass
			3DH5	2.886	31.600	99	285.714	<=400	Pass

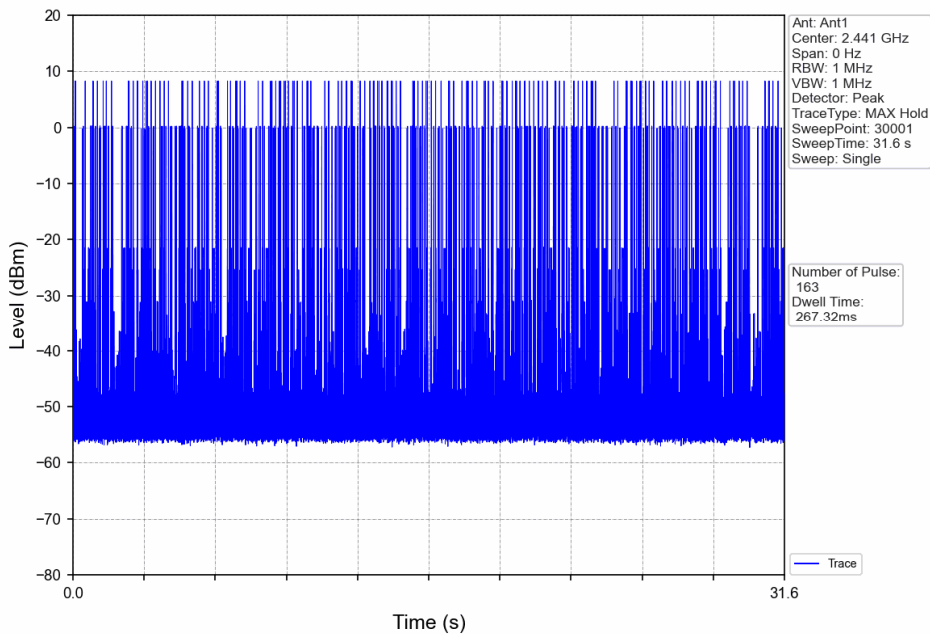
5.1.2 Test Graph



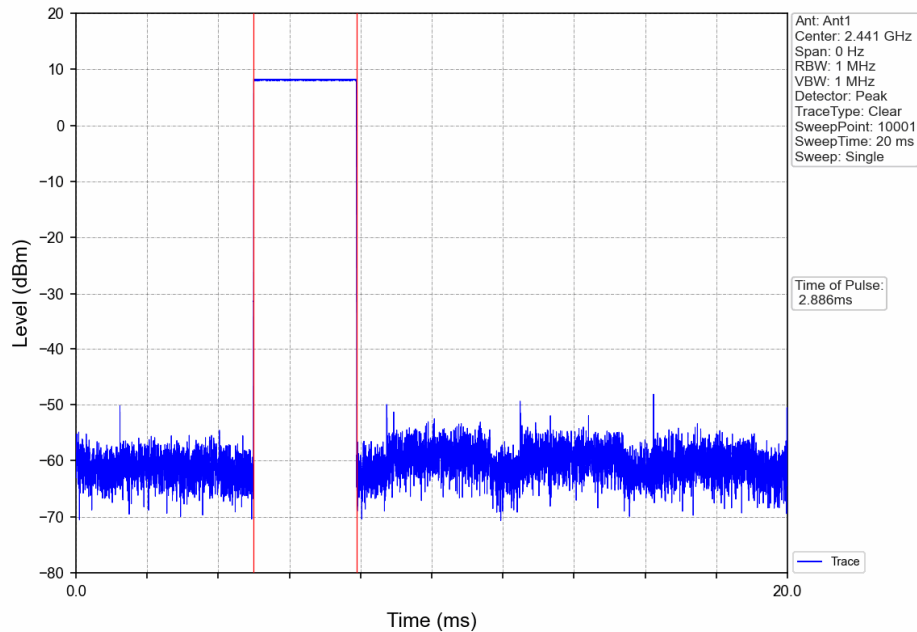
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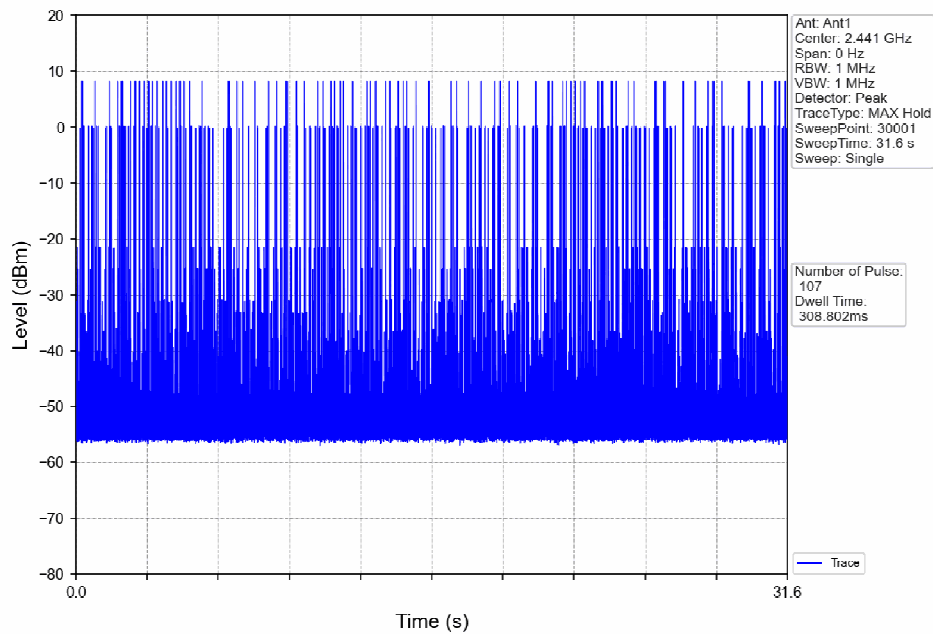
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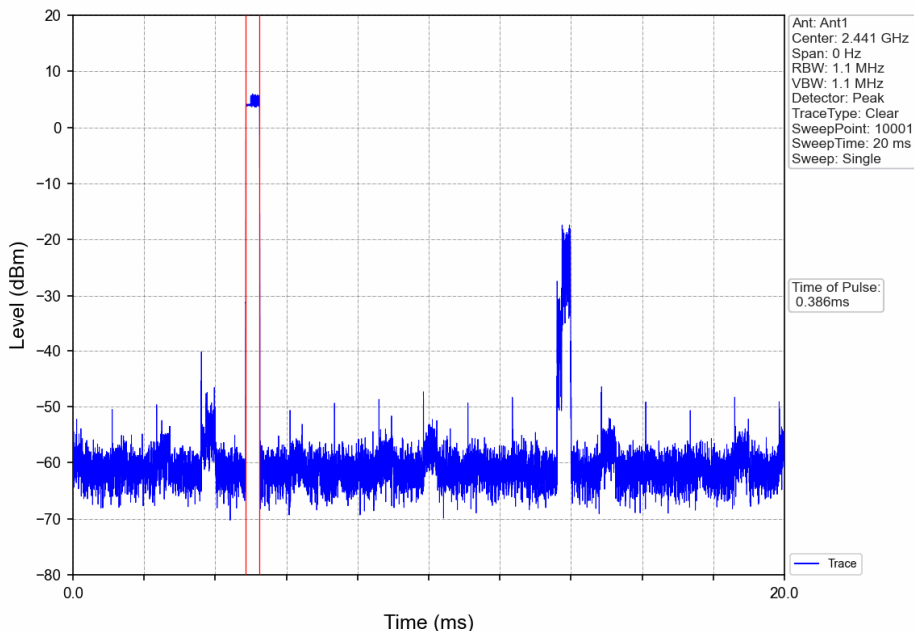
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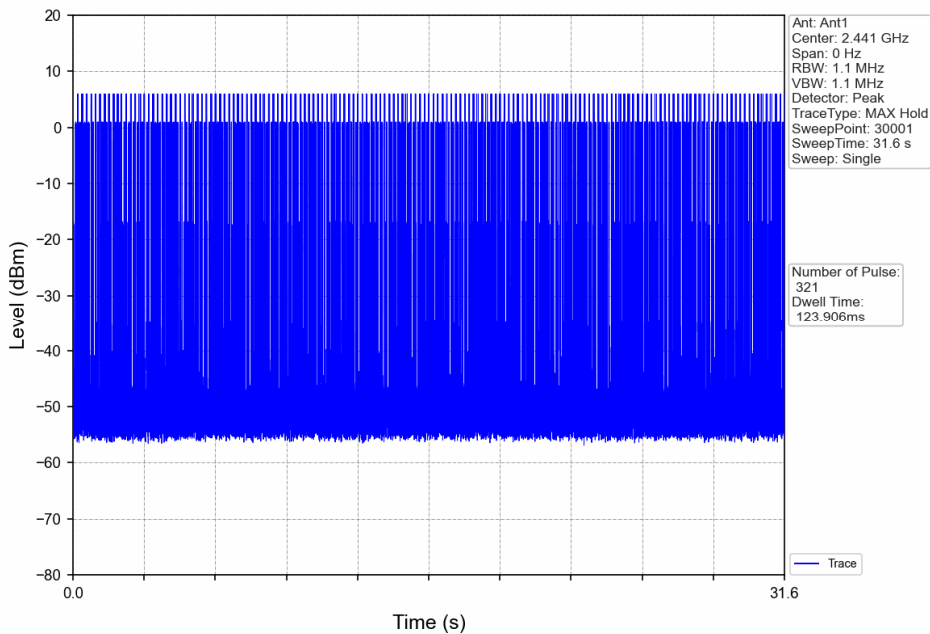
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Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

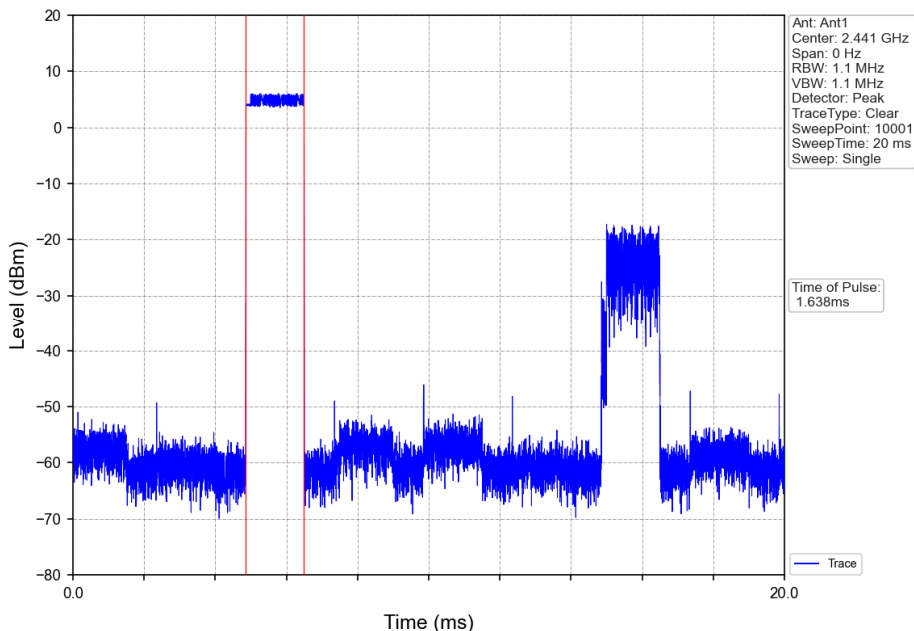


Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV

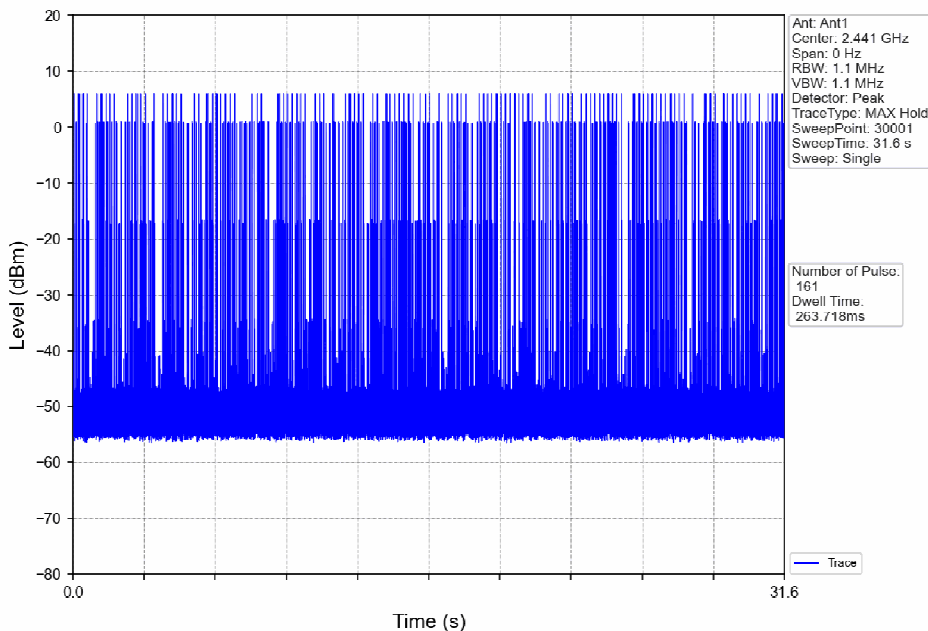


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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

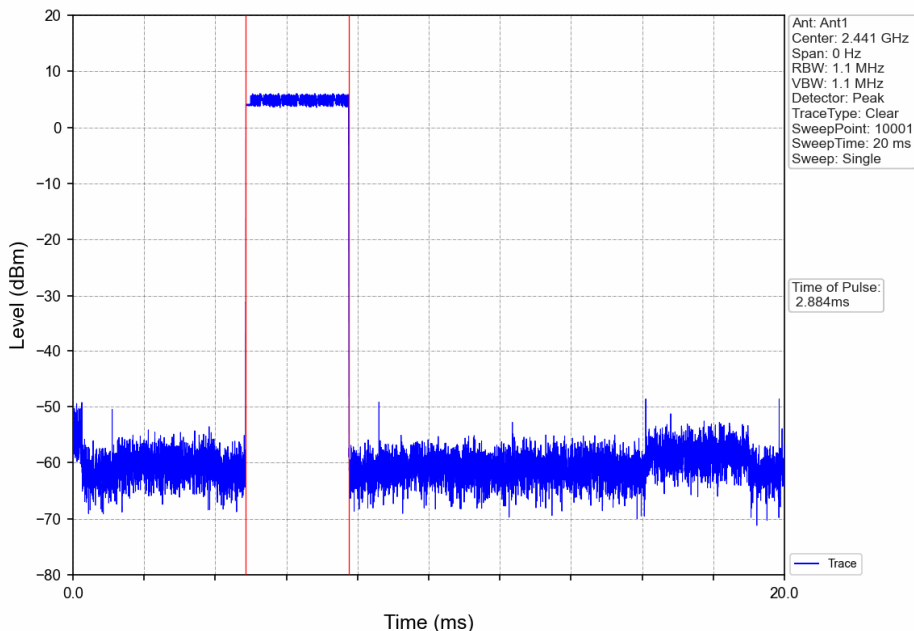


Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV

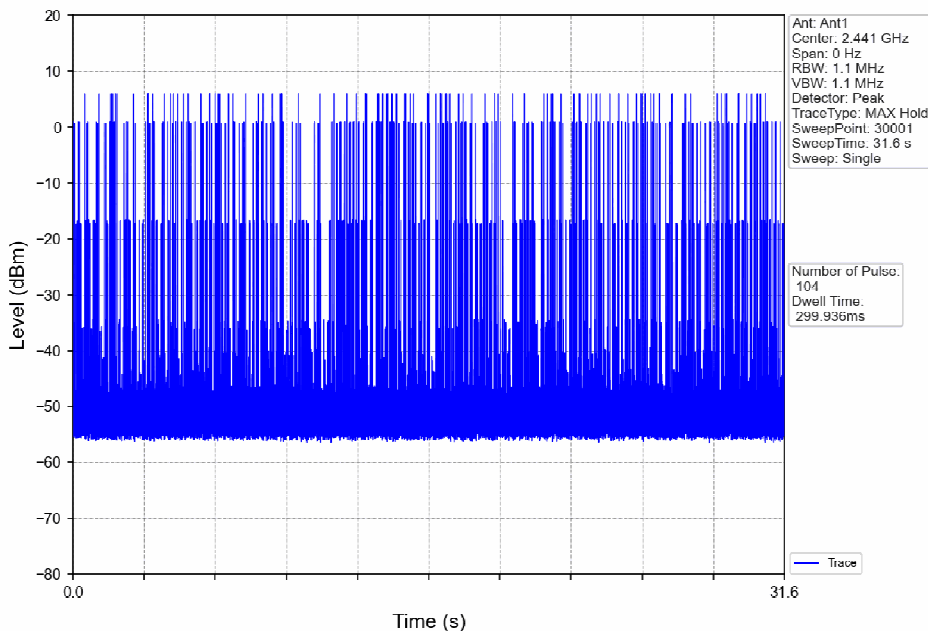


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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

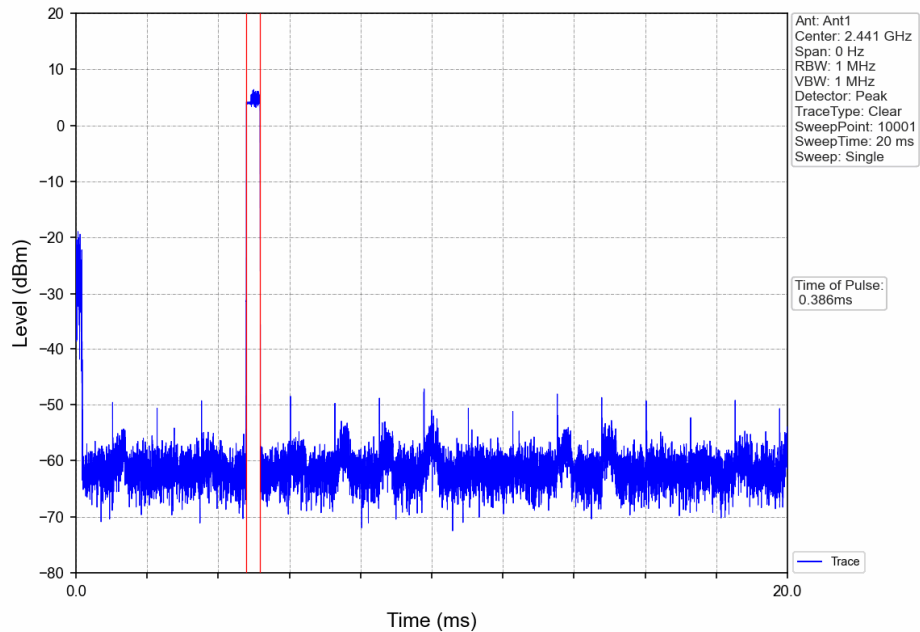


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

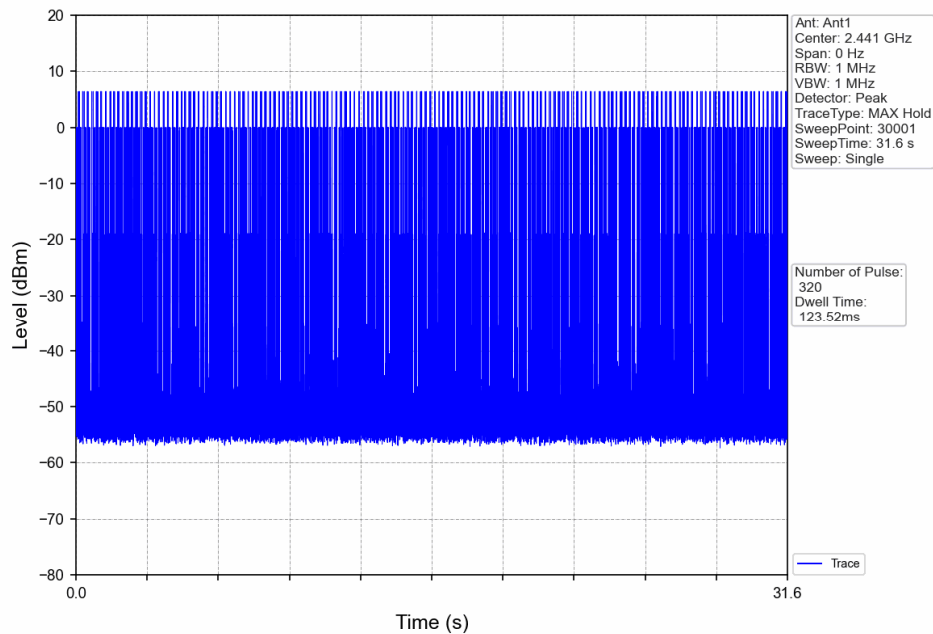


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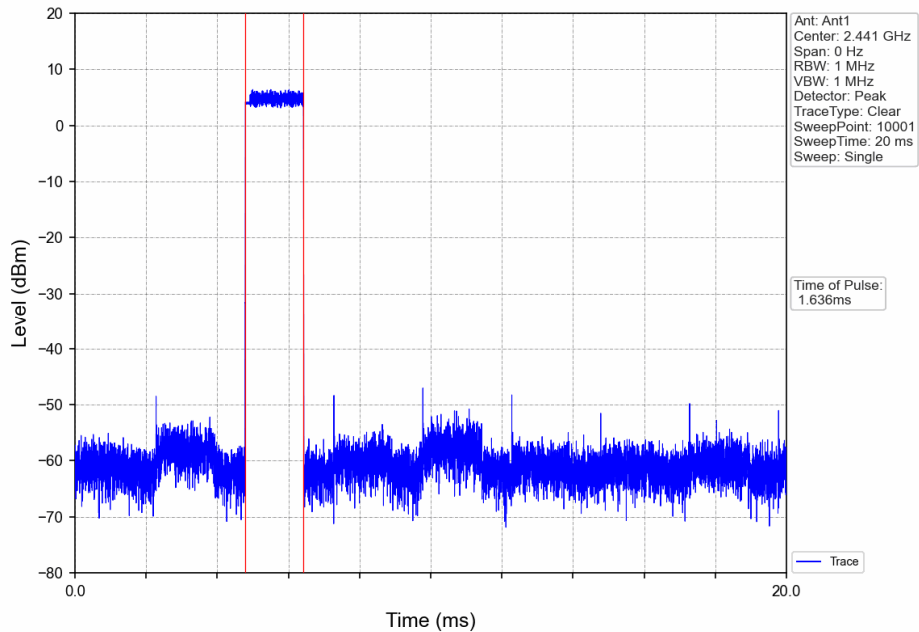
8DPSK_3DH1_HOPP_Ant1_NTNV



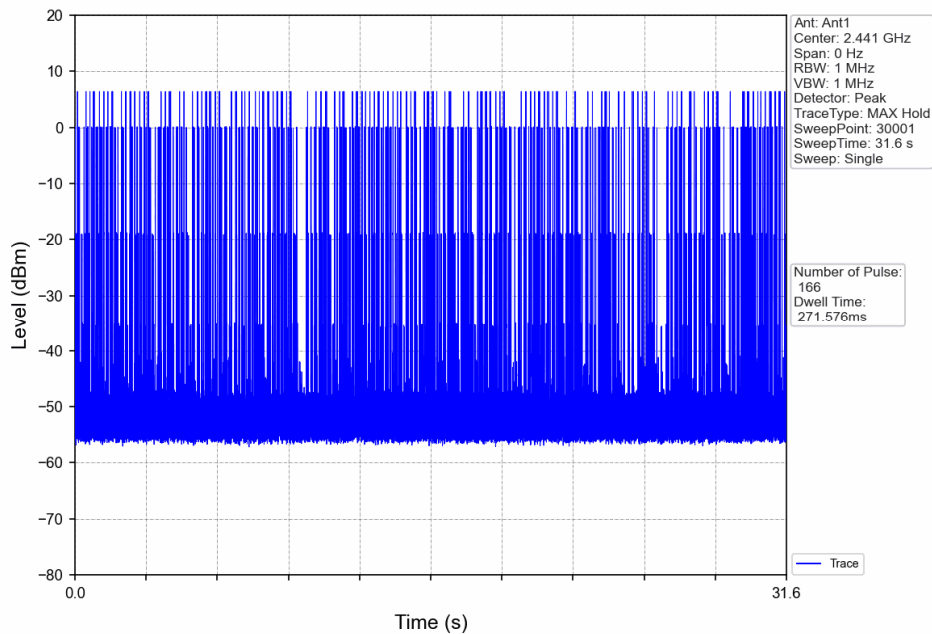
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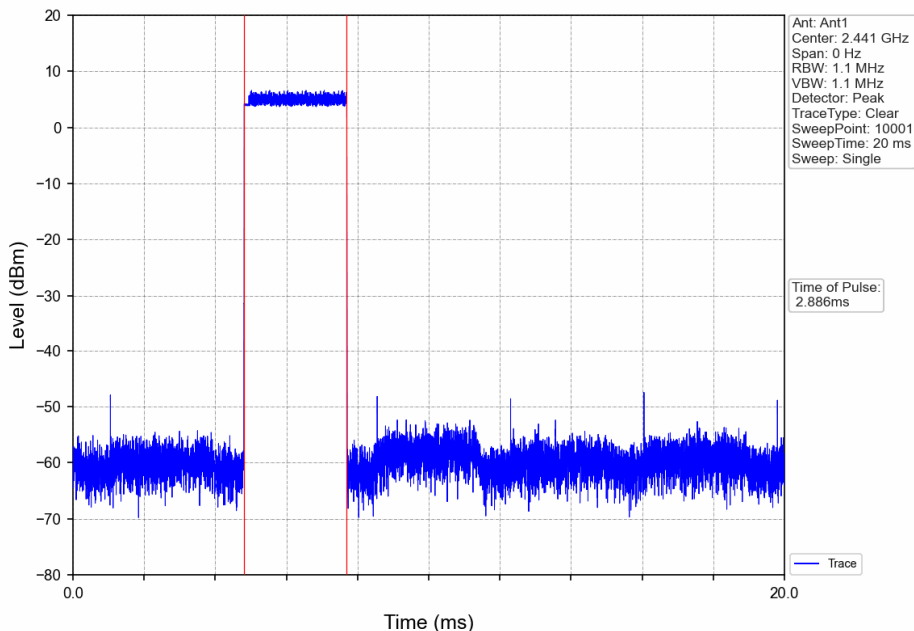
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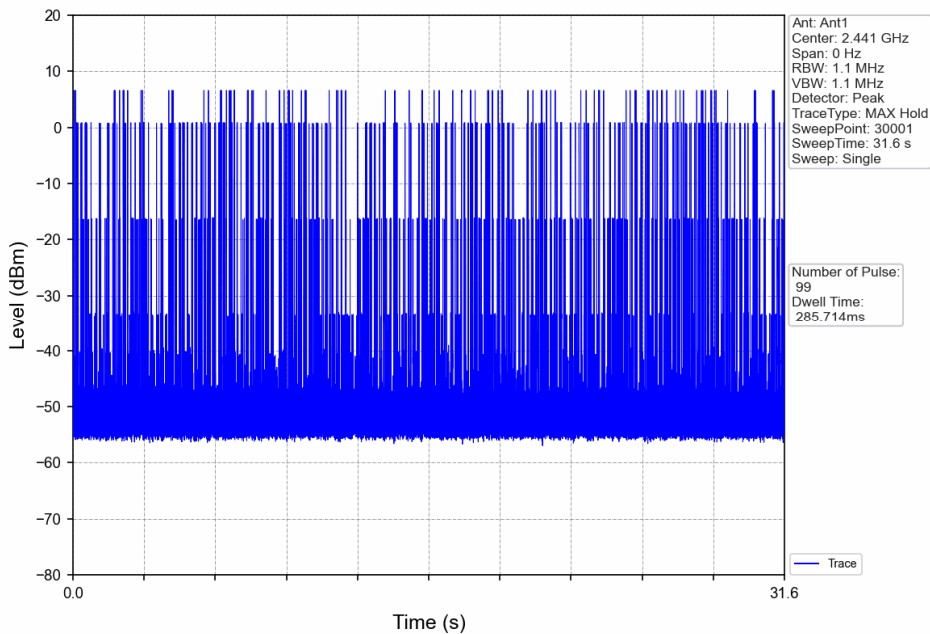
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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6. Unwanted Emissions In Non-restricted Frequency Bands

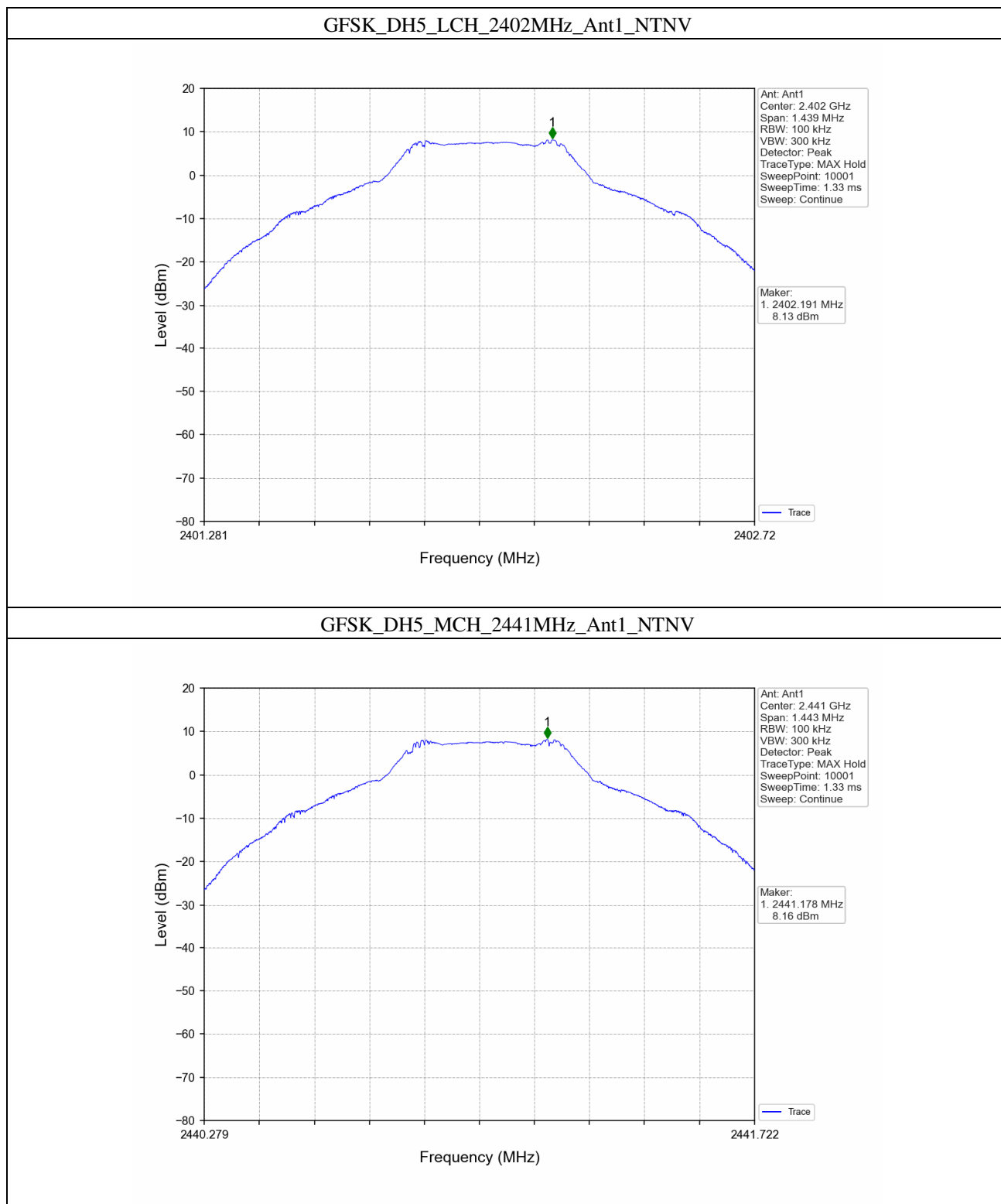
6.1 Ref

6.1.1 Test Result

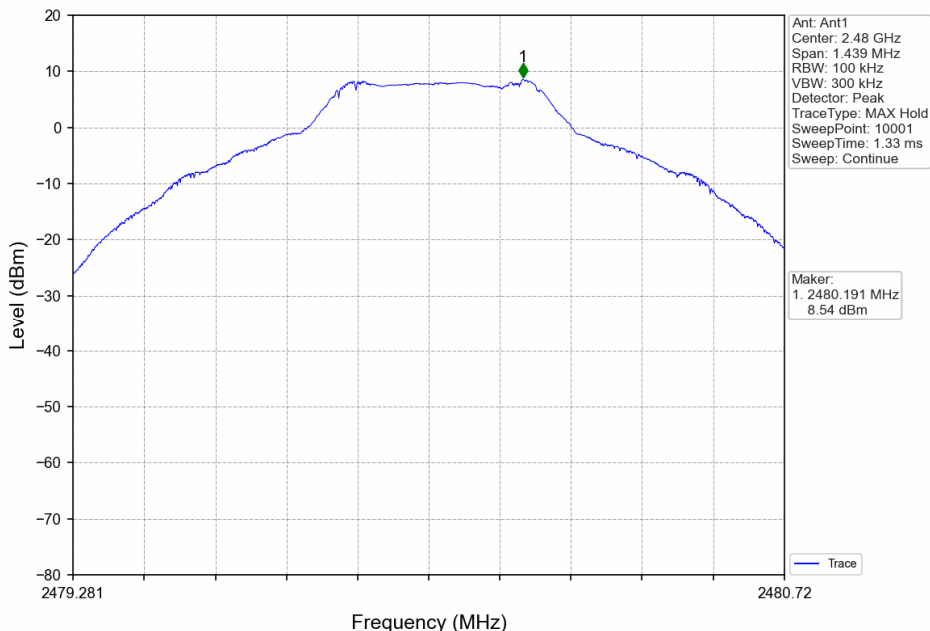
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	8.13
		2441	DH5	1	8.16
		2480	DH5	1	8.54
Pi/4DQPSK	SISO	2402	2DH5	1	3.98
		2441	2DH5	1	3.99
		2480	2DH5	1	4.18
8DPSK	SISO	2402	3DH5	1	4.18
		2441	3DH5	1	4.04
		2480	3DH5	1	4.33

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.

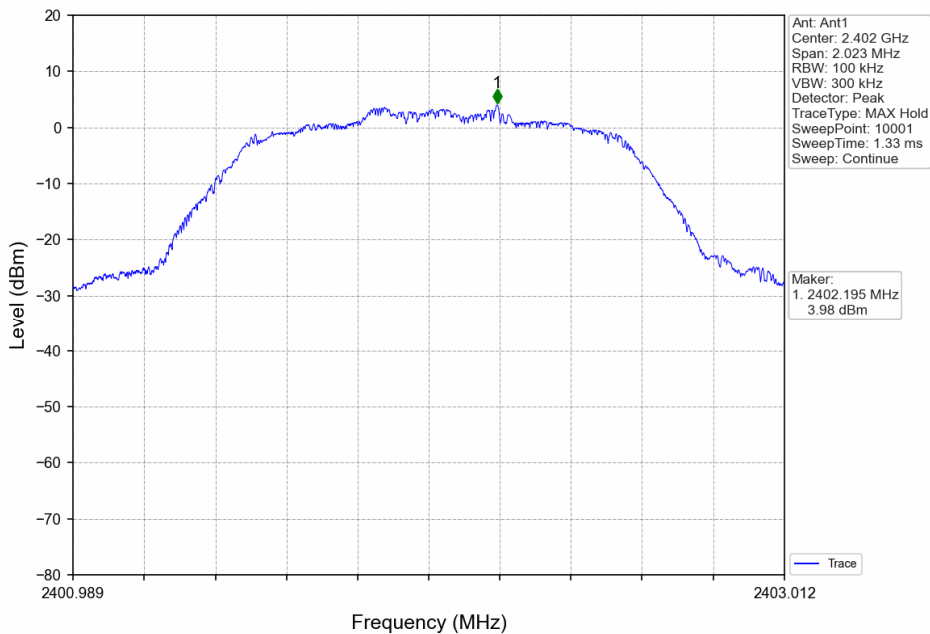
6.1.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



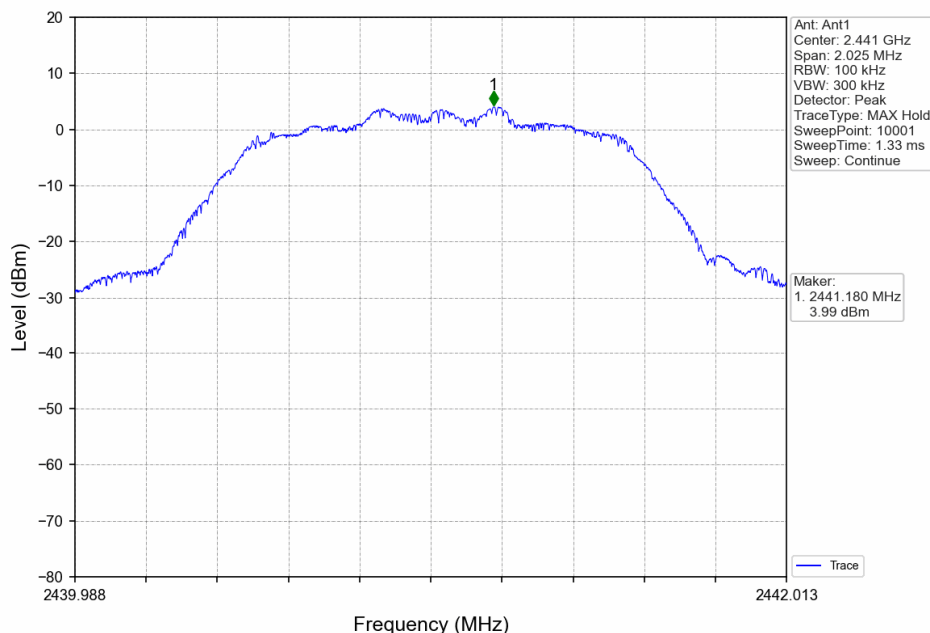
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



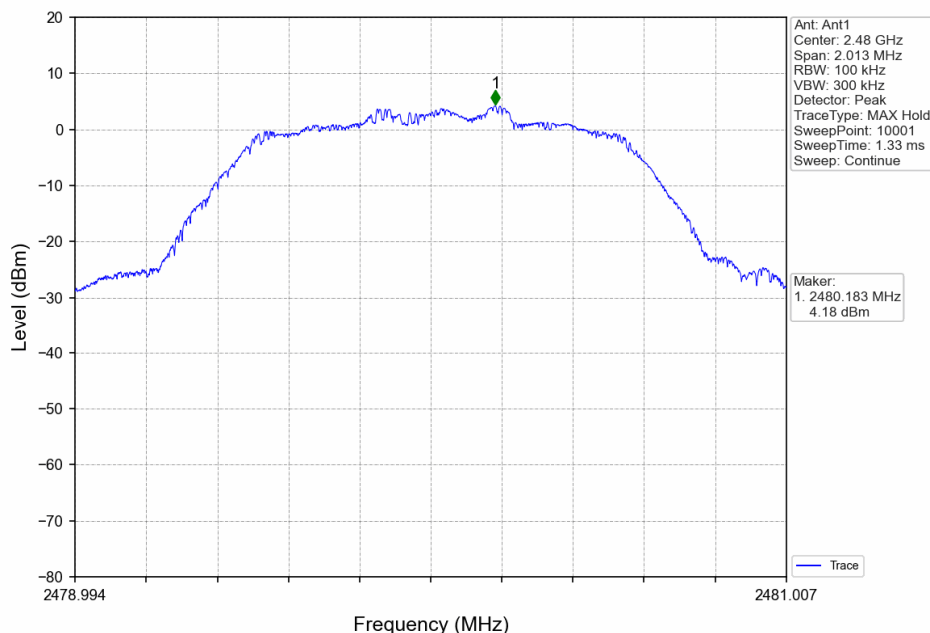
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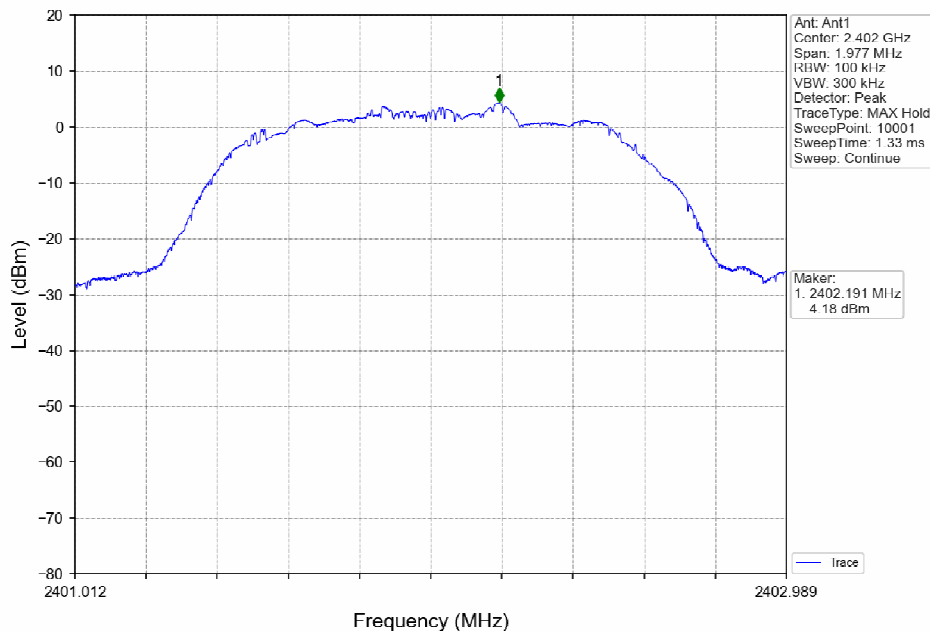
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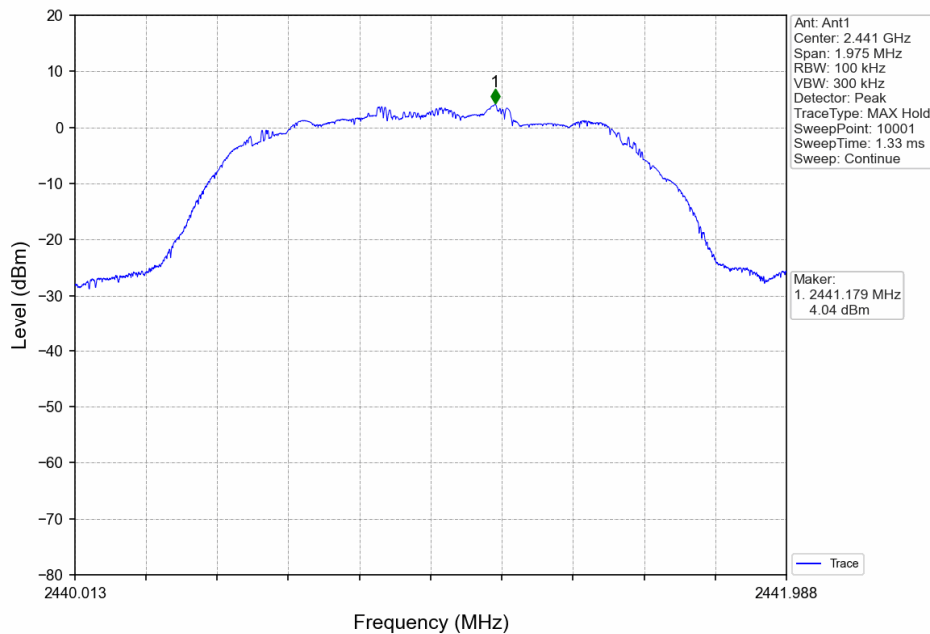
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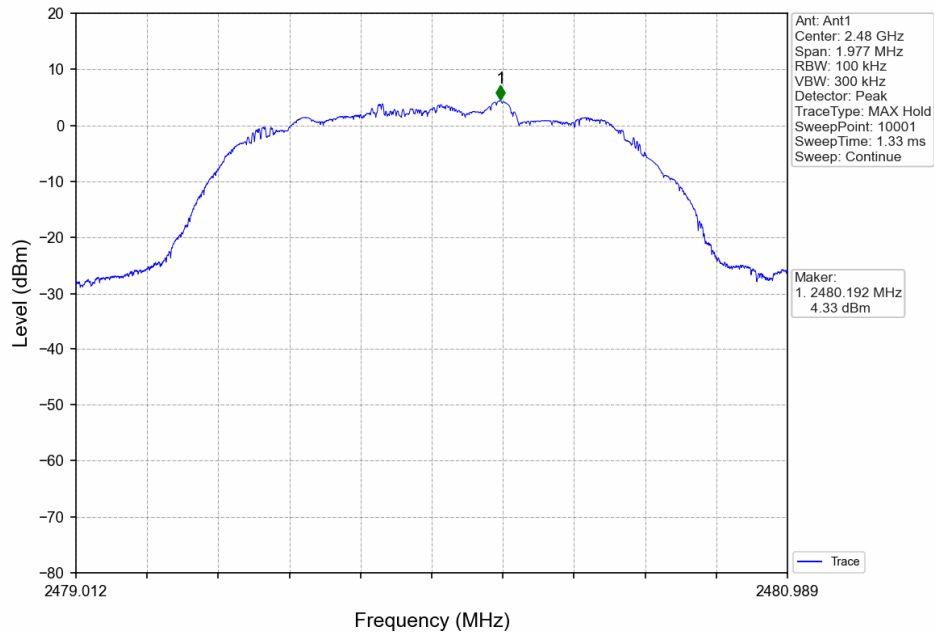
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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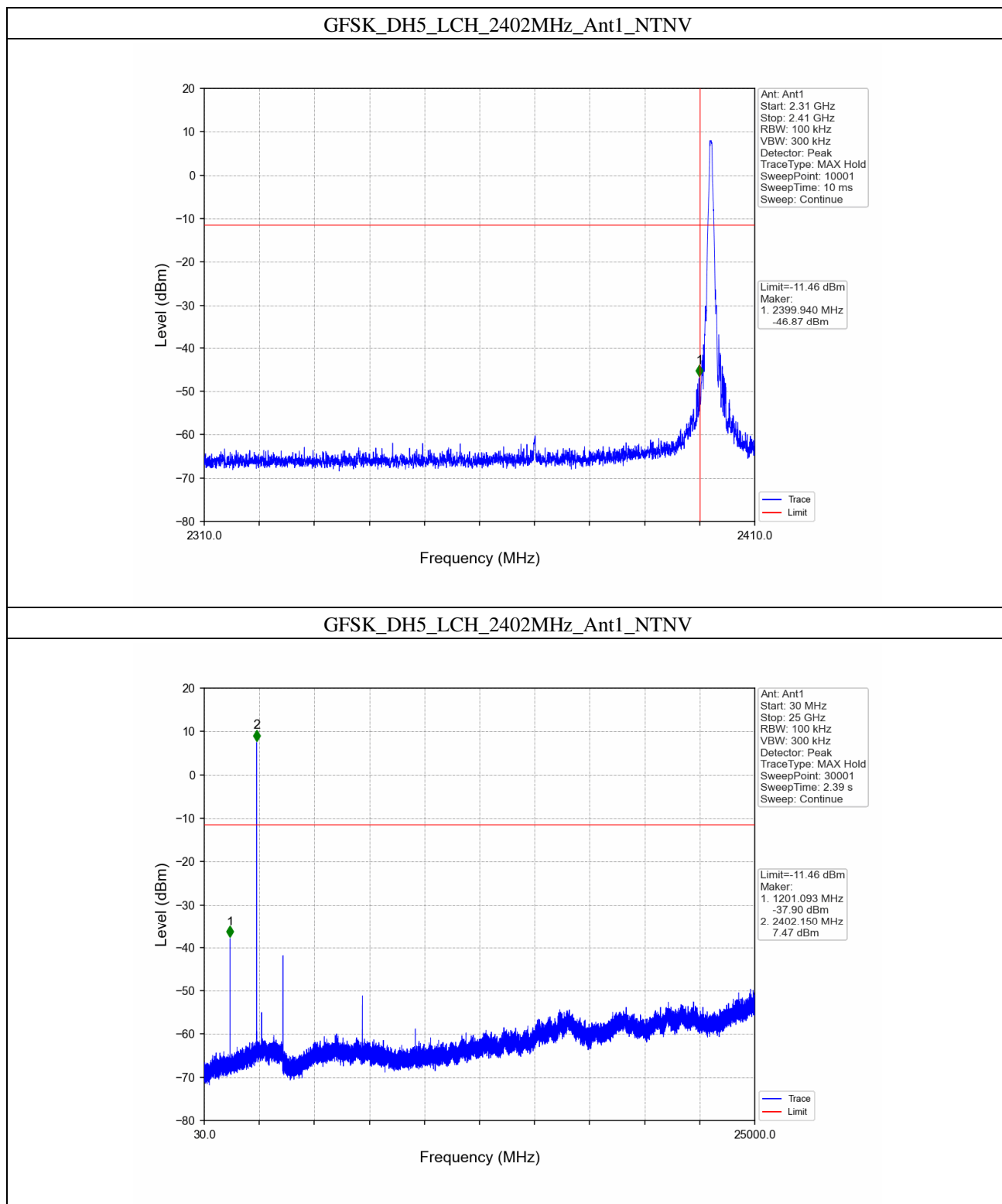
6.2 CSE

6.2.1 Test Result

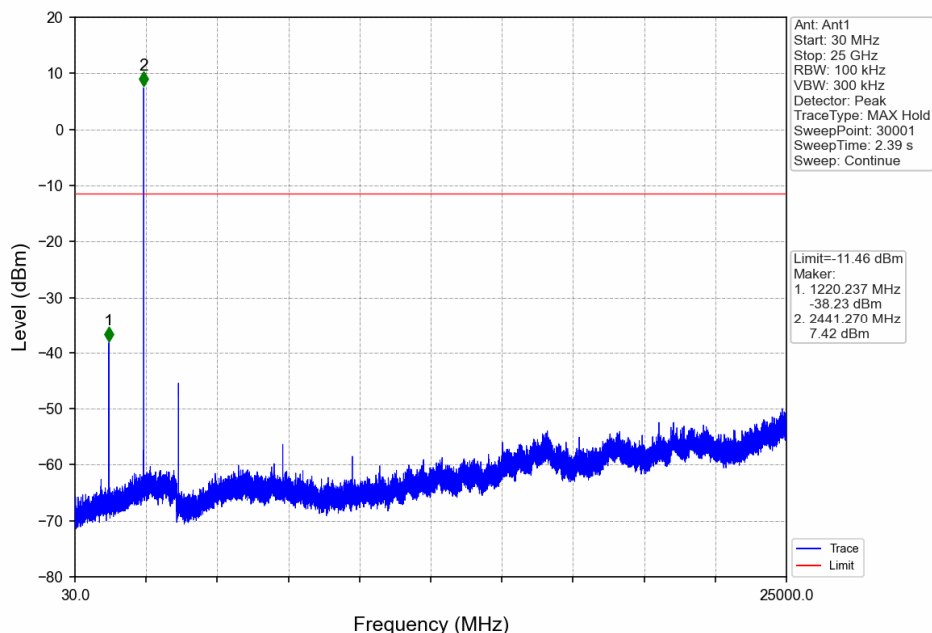
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.54	-11.46	Pass
		2441	DH5	1	8.54	-11.46	Pass
		2480	DH5	1	8.54	-11.46	Pass
		HOPP	DH5	1	8.54	-11.46	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	4.18	-15.82	Pass
		2441	2DH5	1	4.18	-15.82	Pass
		2480	2DH5	1	4.18	-15.82	Pass
		HOPP	2DH5	1	4.18	-15.82	Pass
8DPSK	SISO	2402	3DH5	1	4.33	-15.67	Pass
		2441	3DH5	1	4.33	-15.67	Pass
		2480	3DH5	1	4.33	-15.67	Pass
		HOPP	3DH5	1	4.33	-15.67	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.

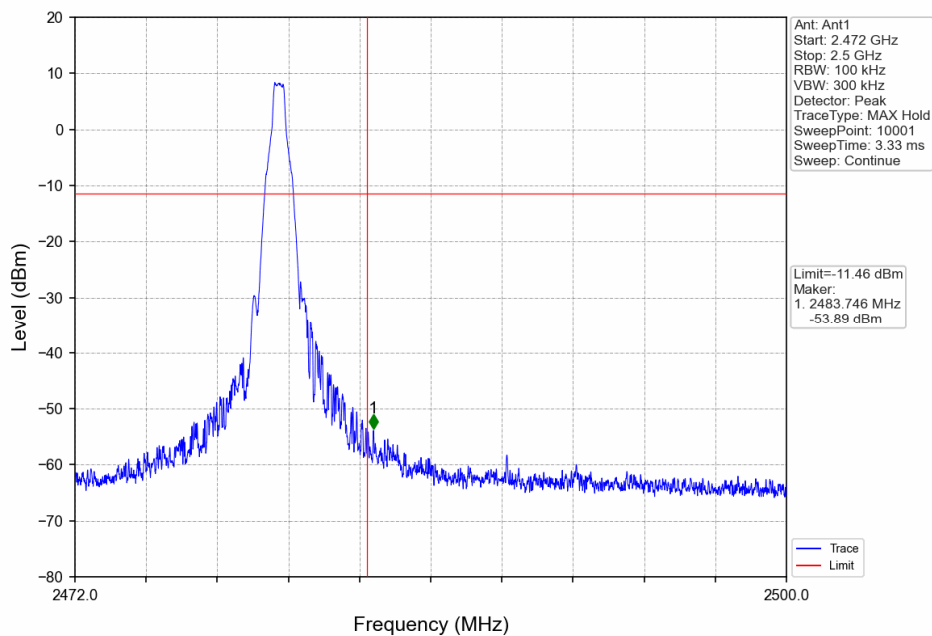
6.2.2 Test Graph



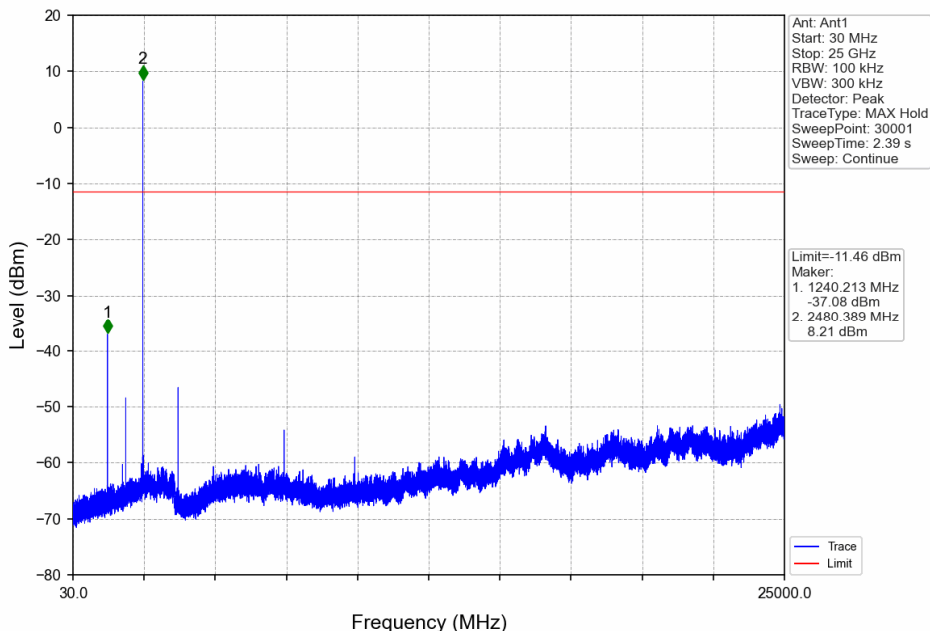
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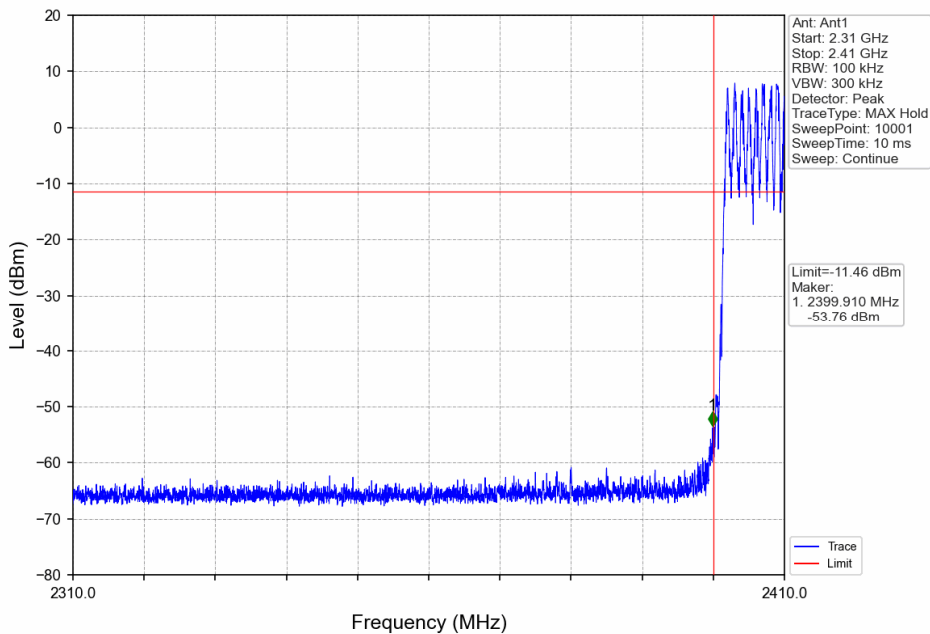
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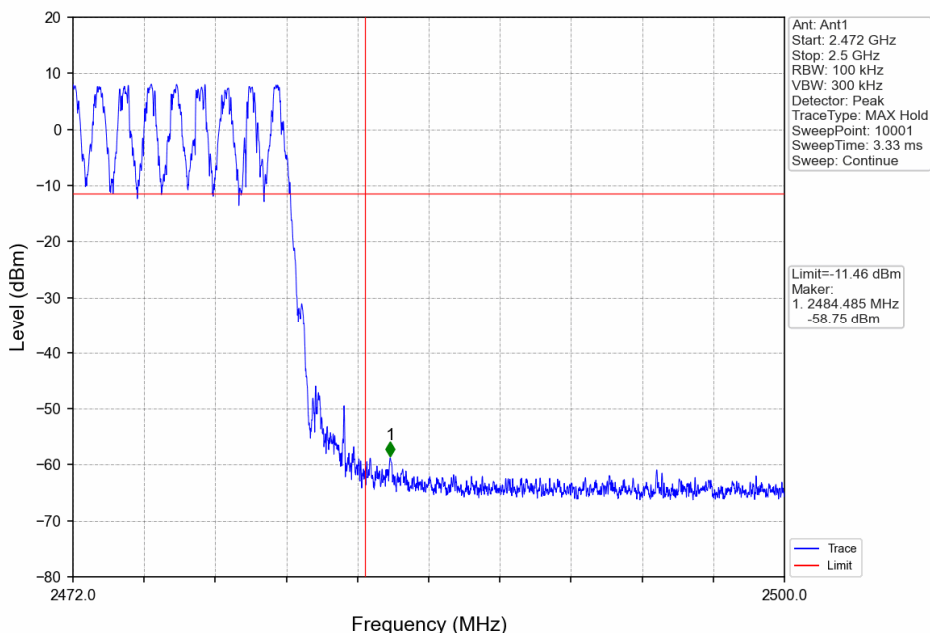
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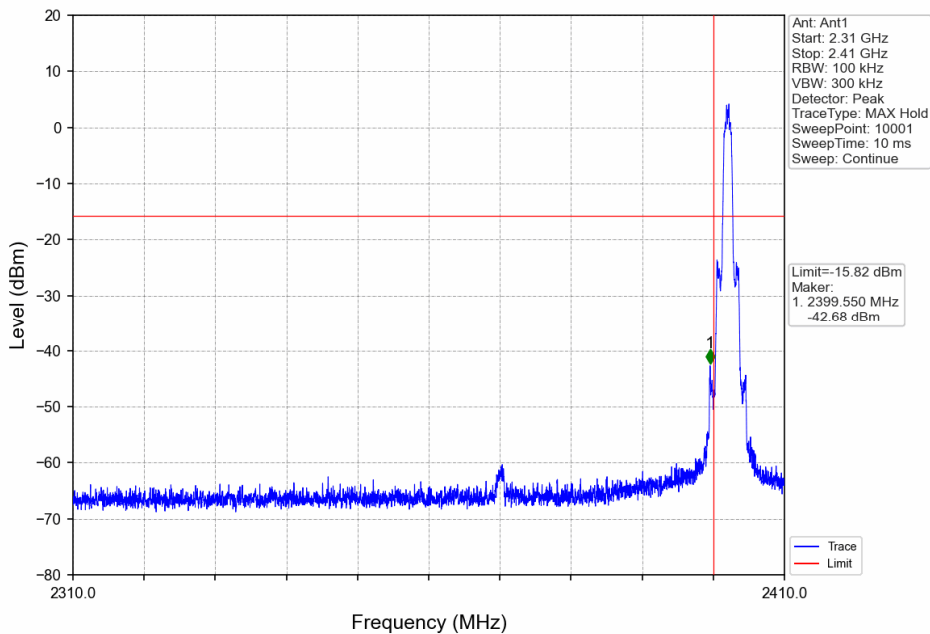
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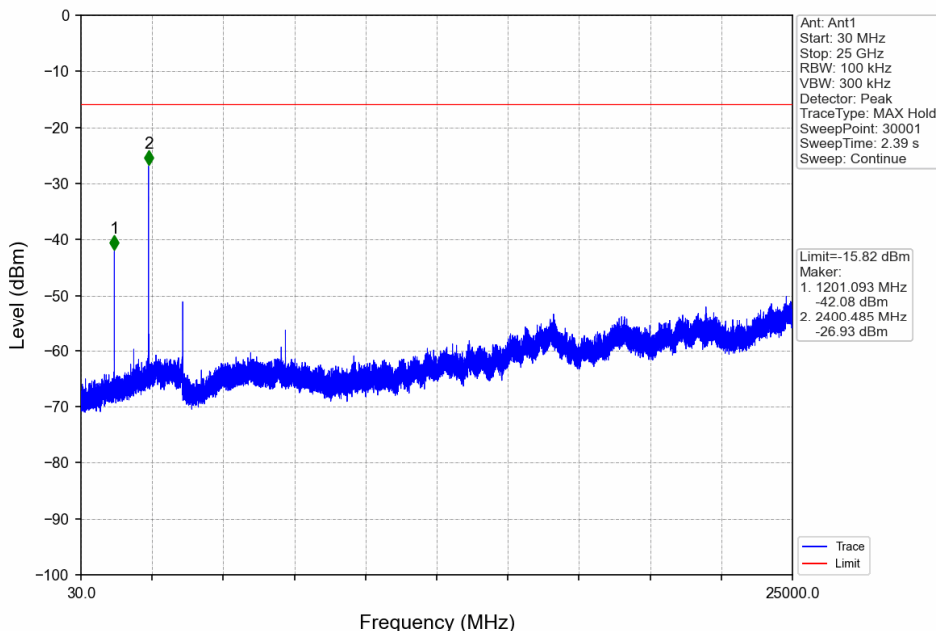
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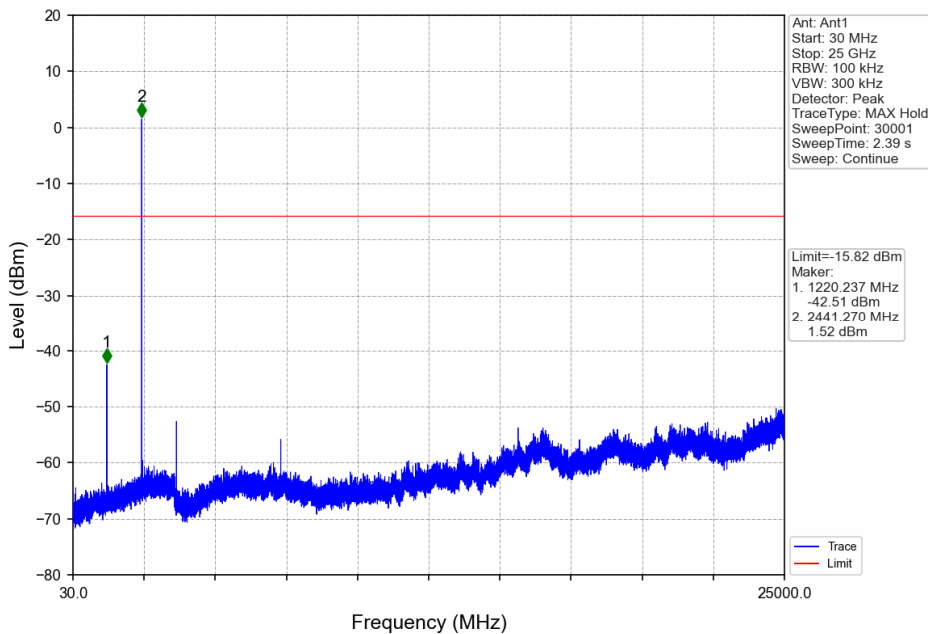
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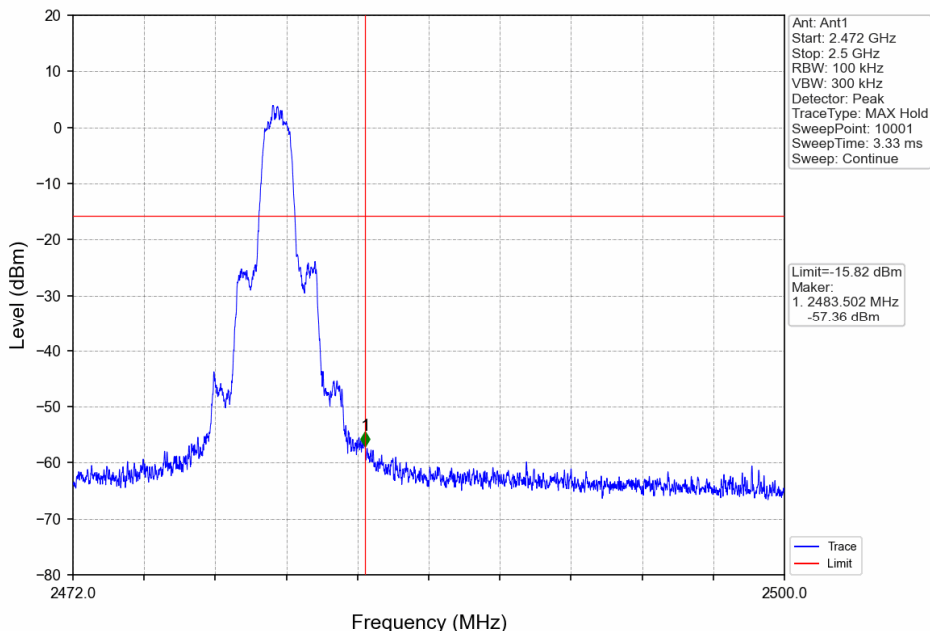
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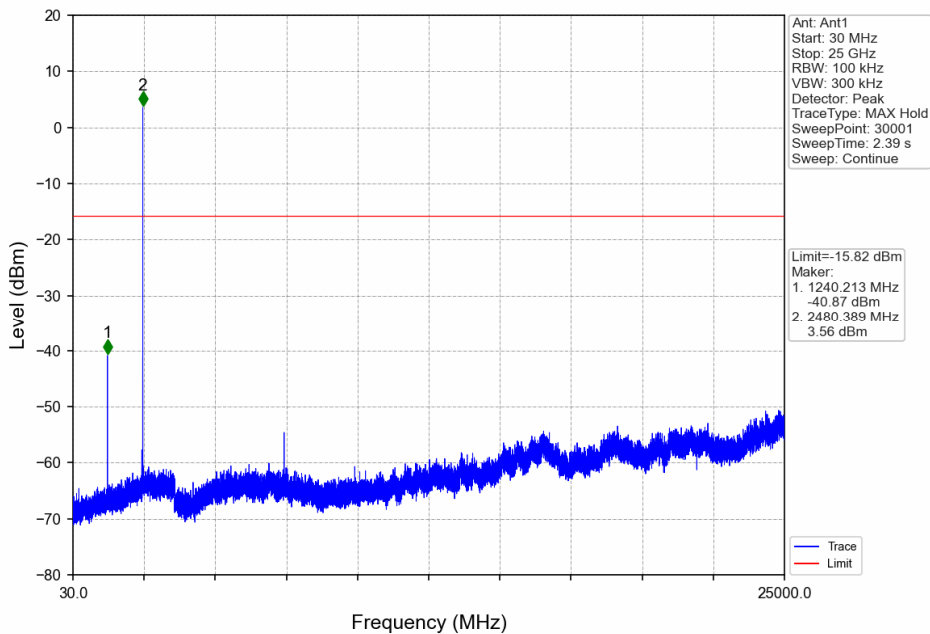
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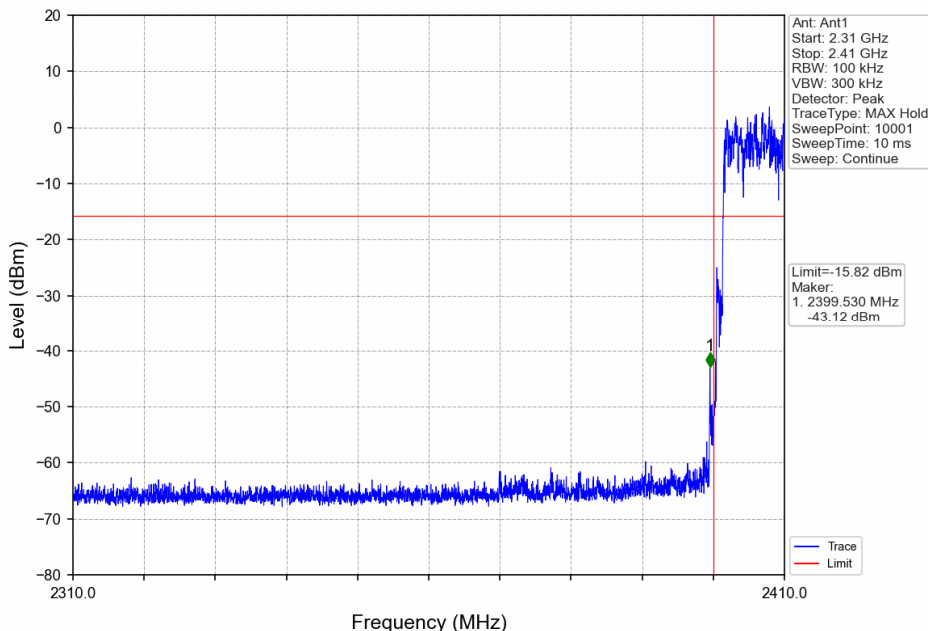
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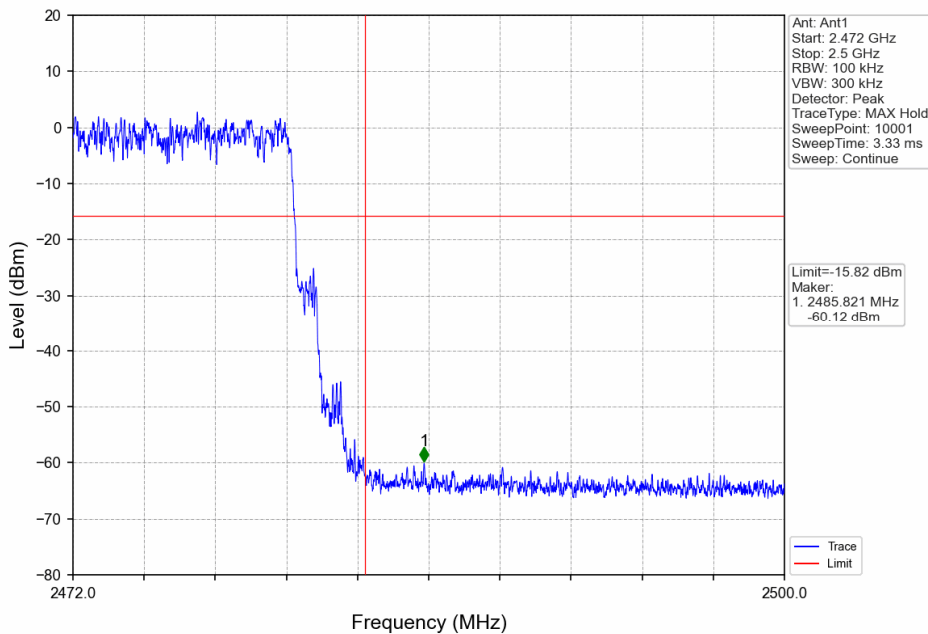
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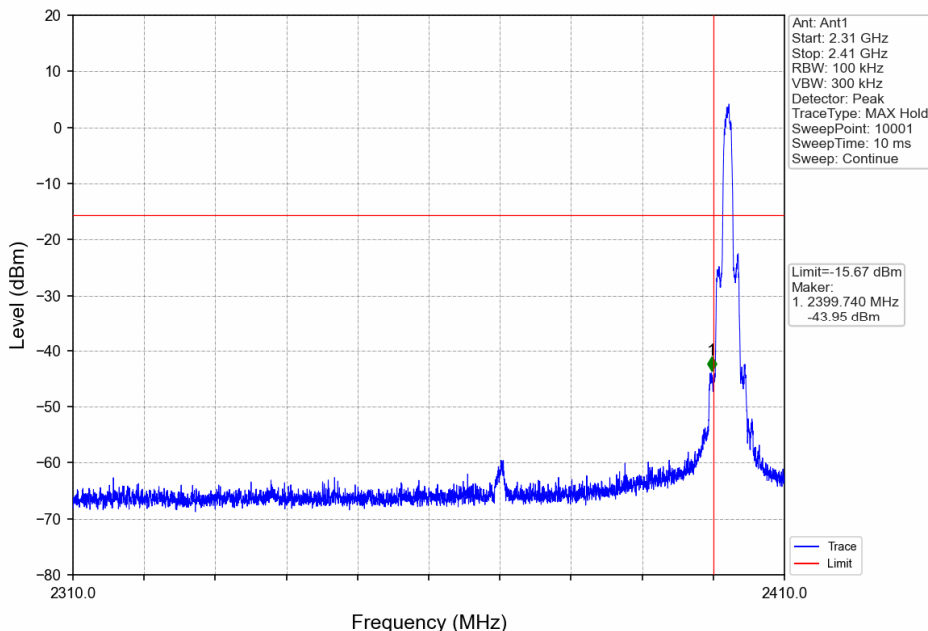
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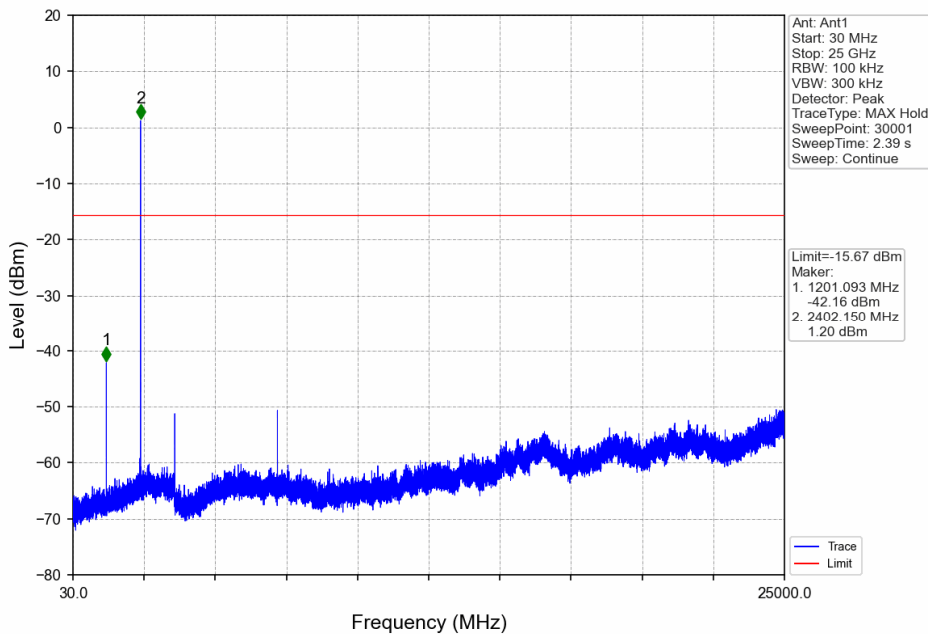
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



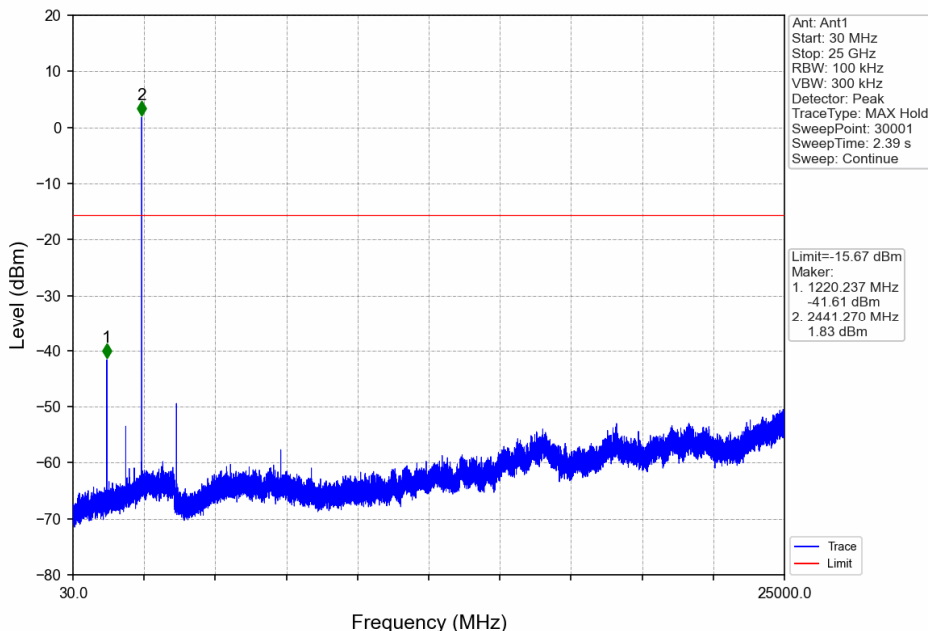
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



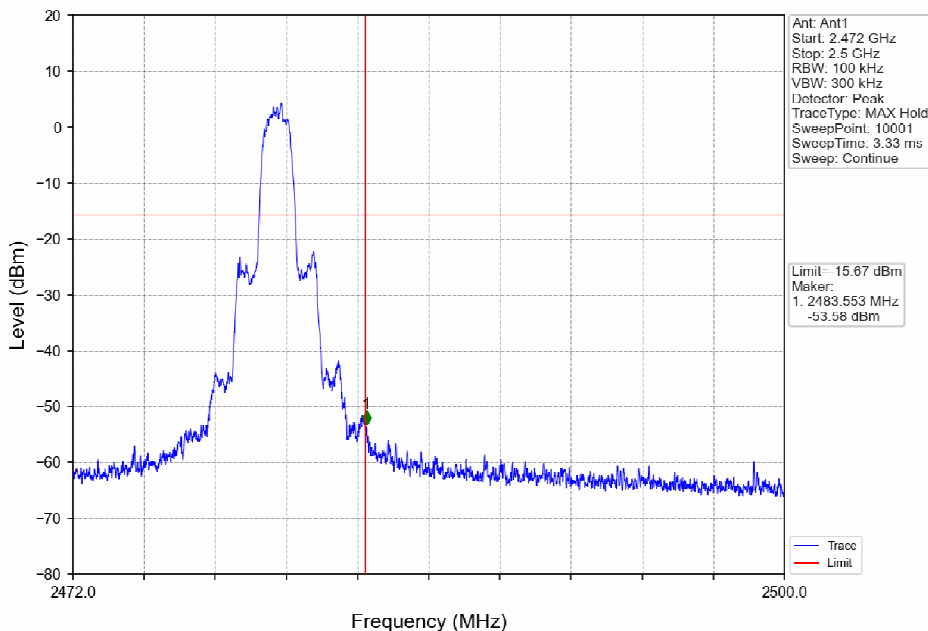
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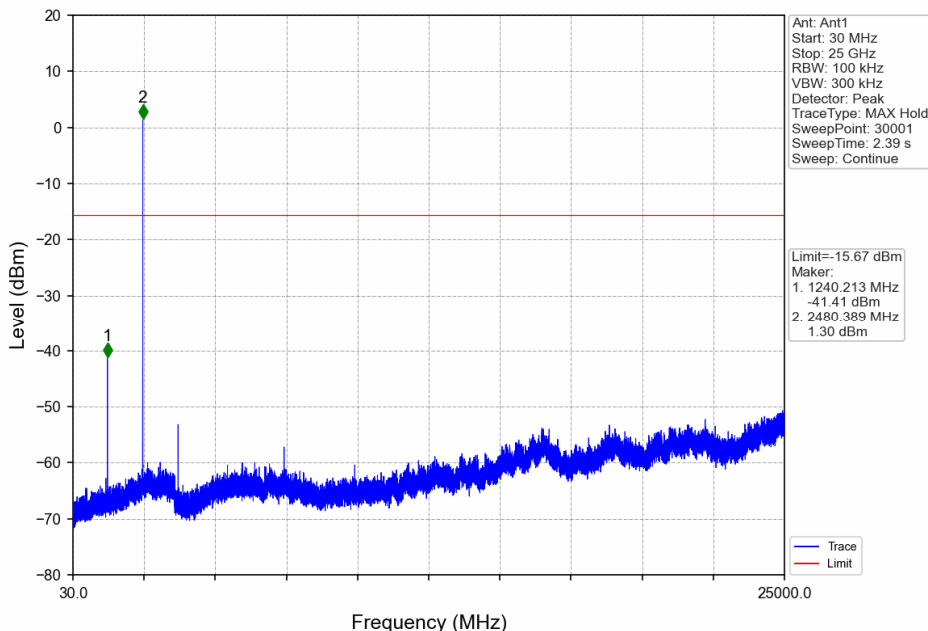
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



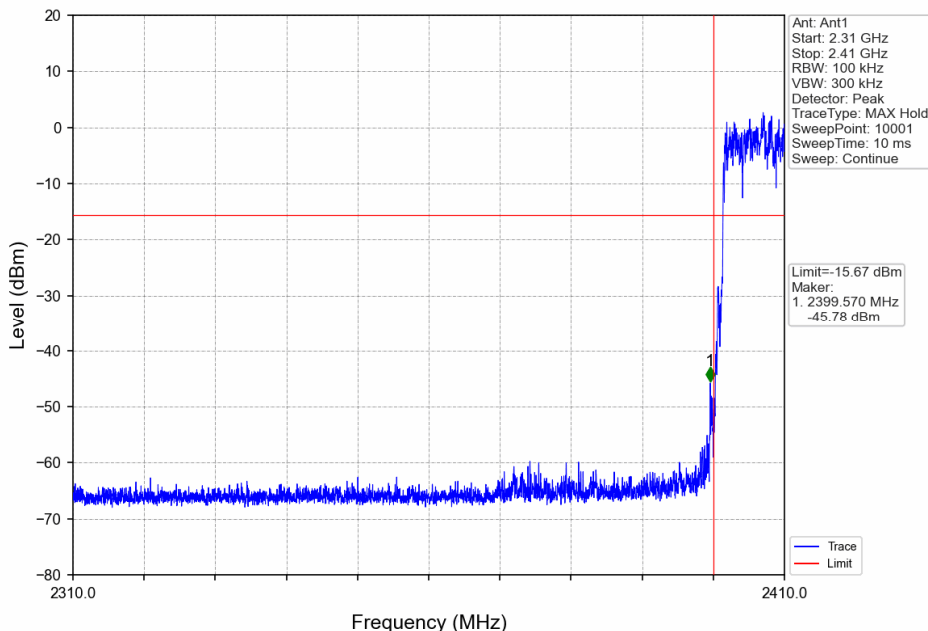
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



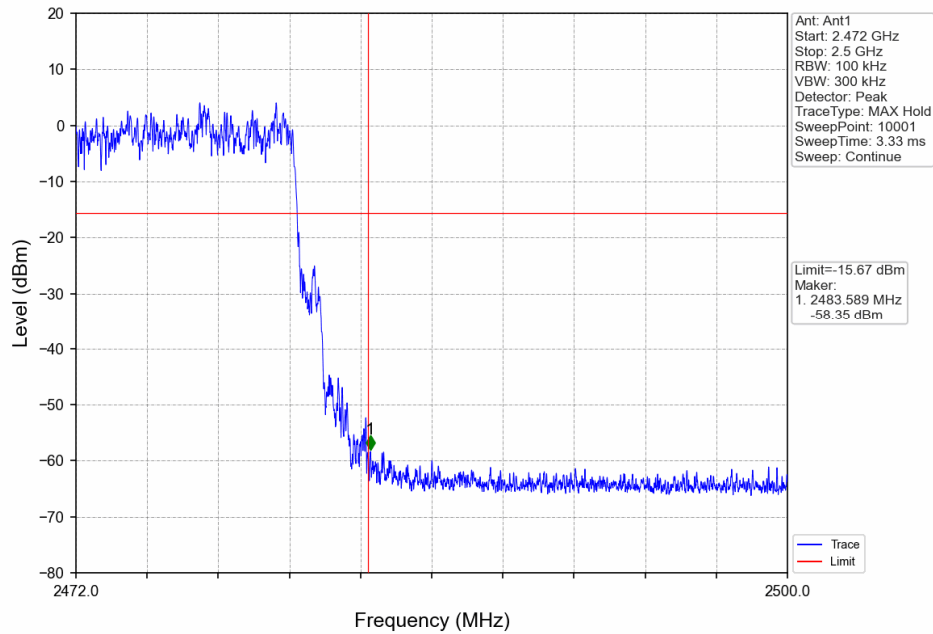
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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Right earbud

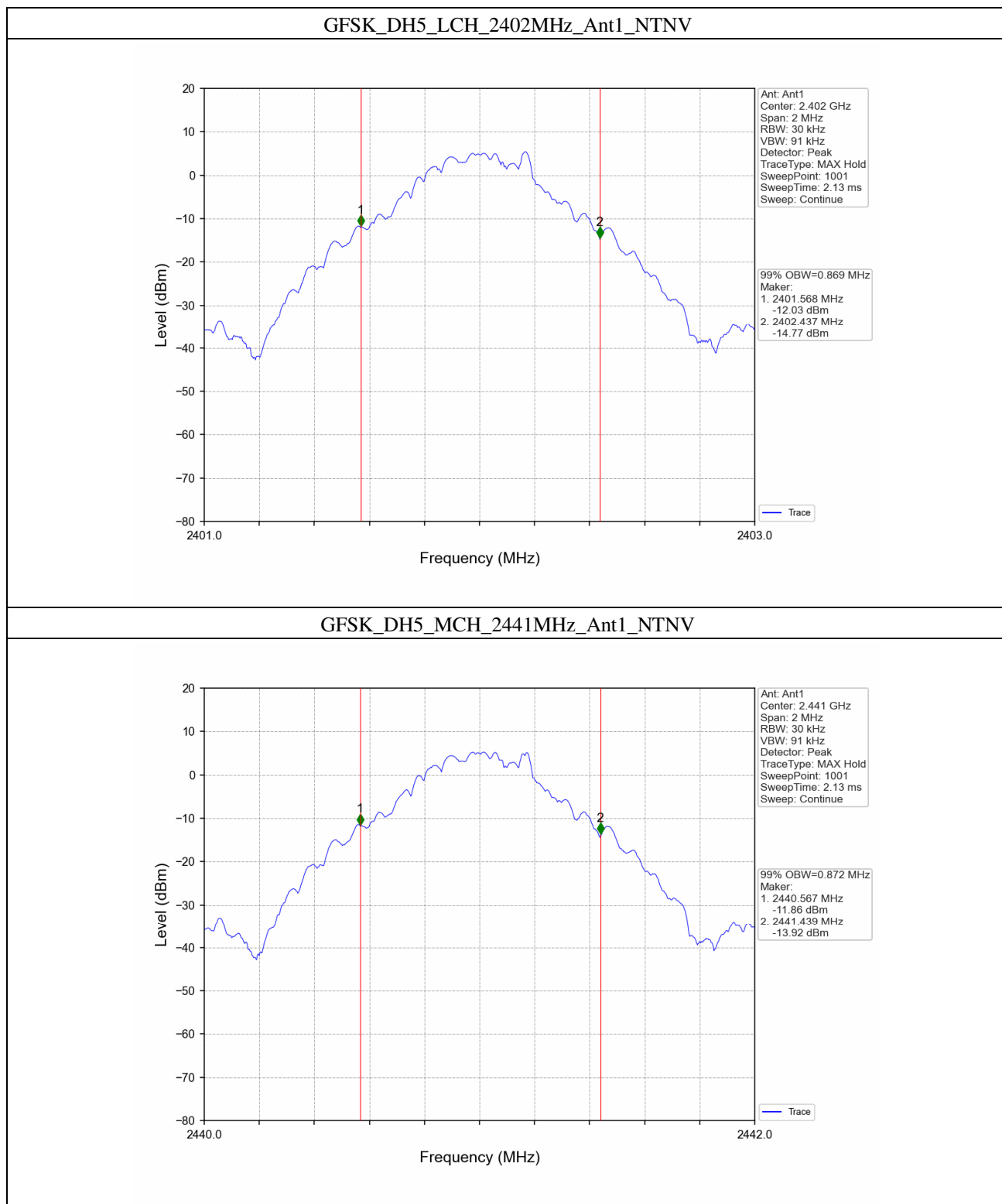
1. Bandwidth

1.1 OBW

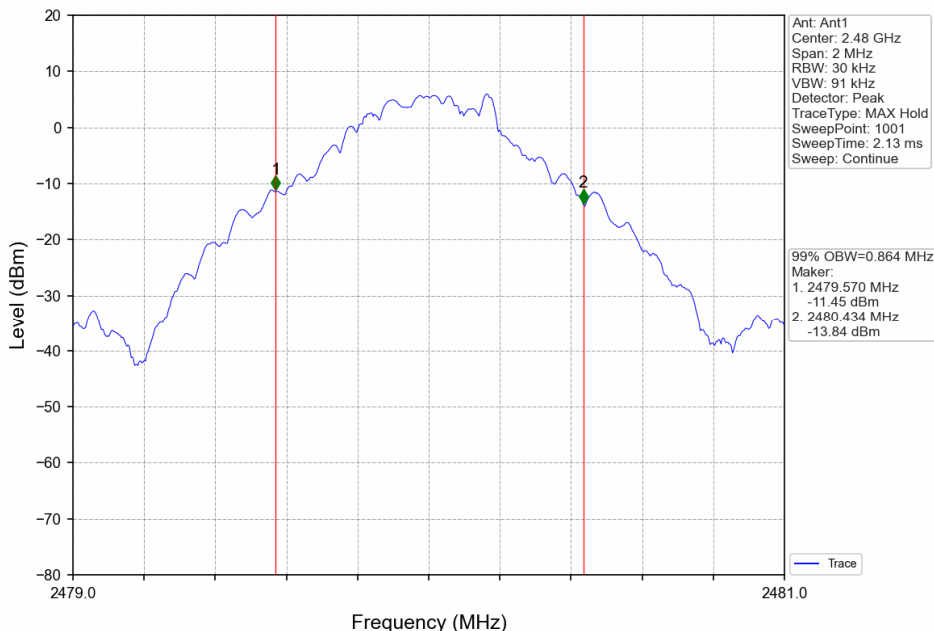
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.869	Pass
		2441	DH5	1	0.872	Pass
		2480	DH5	1	0.864	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.187	Pass
		2441	2DH5	1	1.187	Pass
		2480	2DH5	1	1.189	Pass
8DPSK	SISO	2402	3DH5	1	1.189	Pass
		2441	3DH5	1	1.190	Pass
		2480	3DH5	1	1.189	Pass

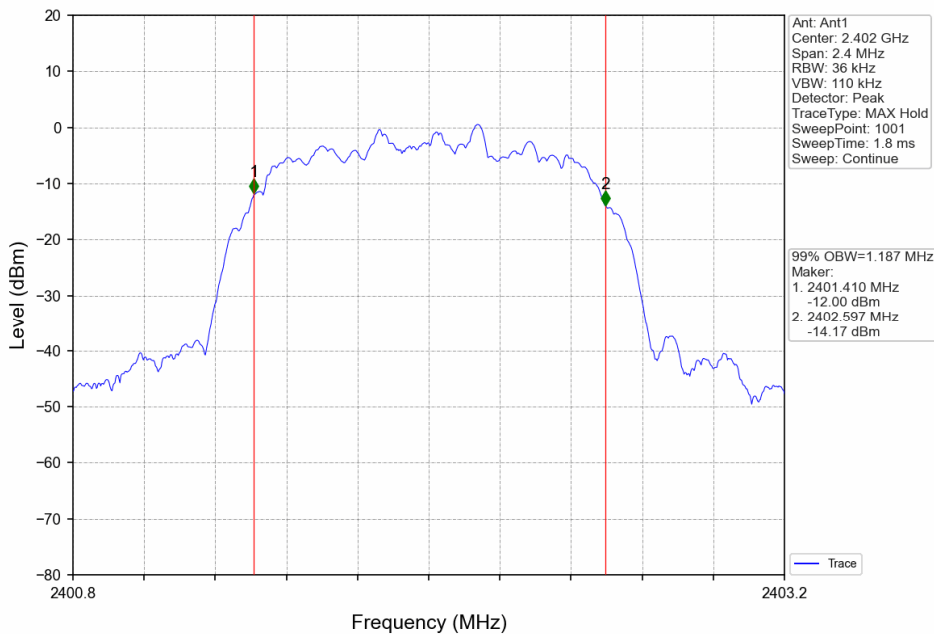
1.1.2 Test Graph



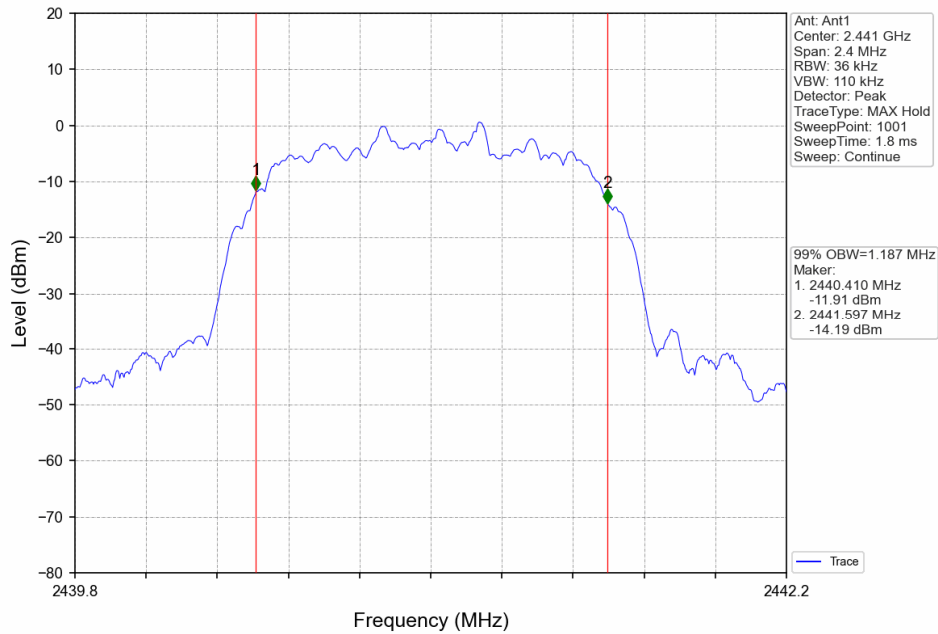
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



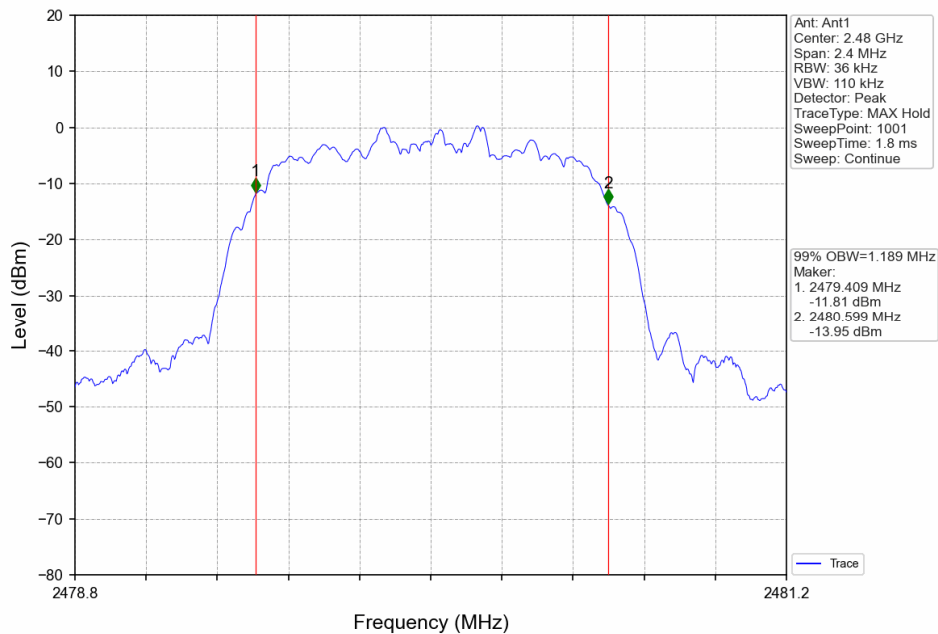
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



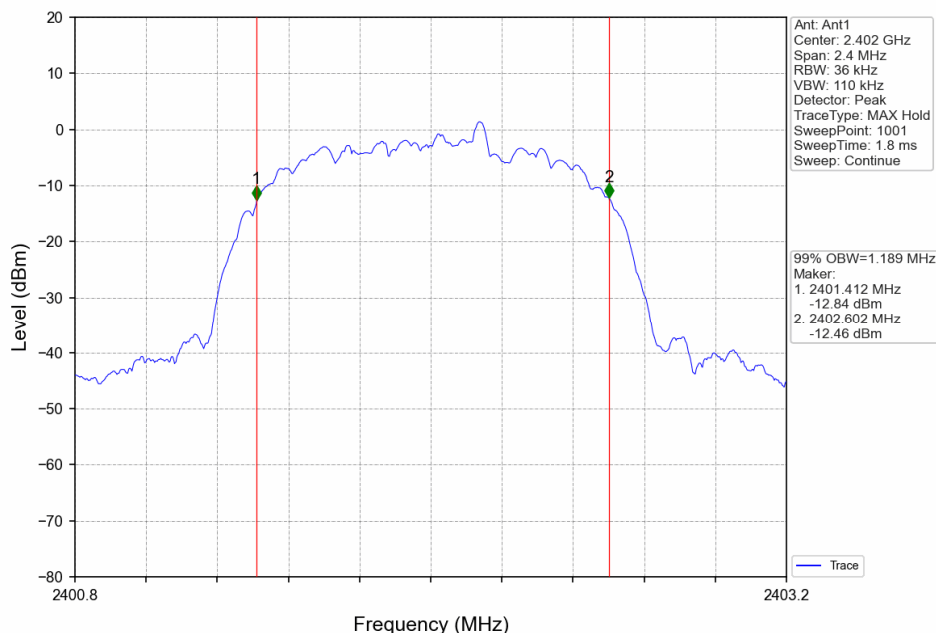
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



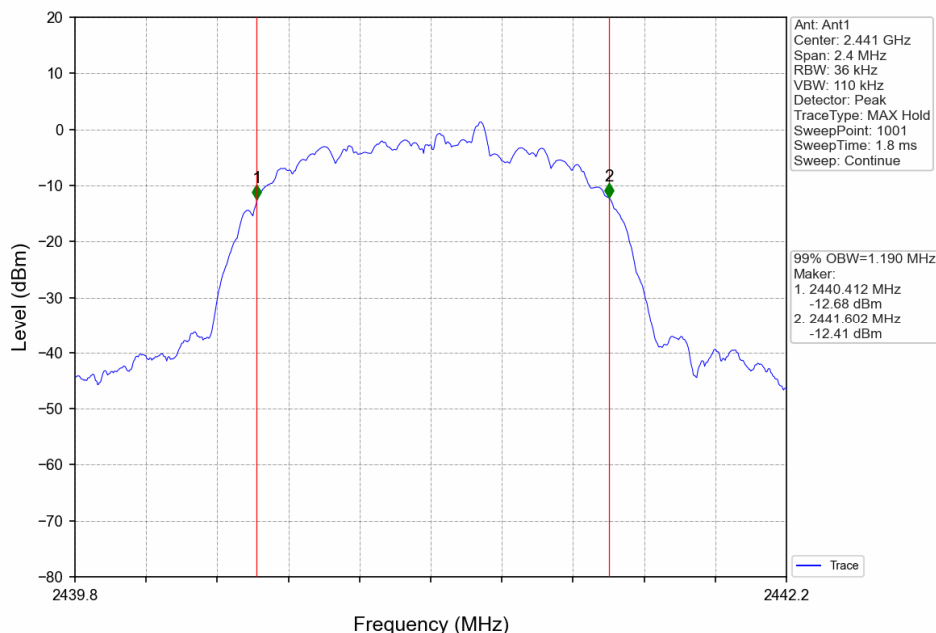
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



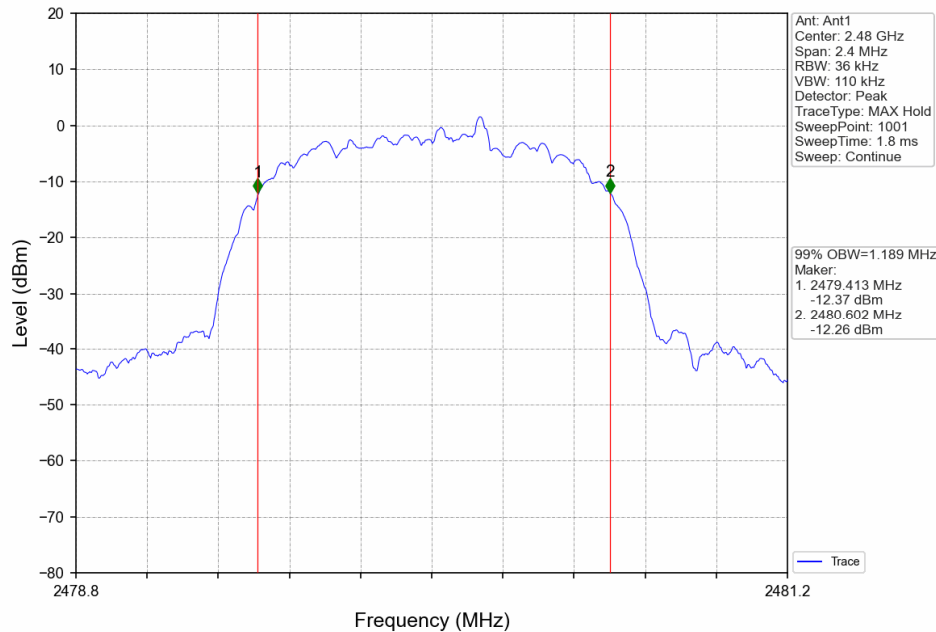
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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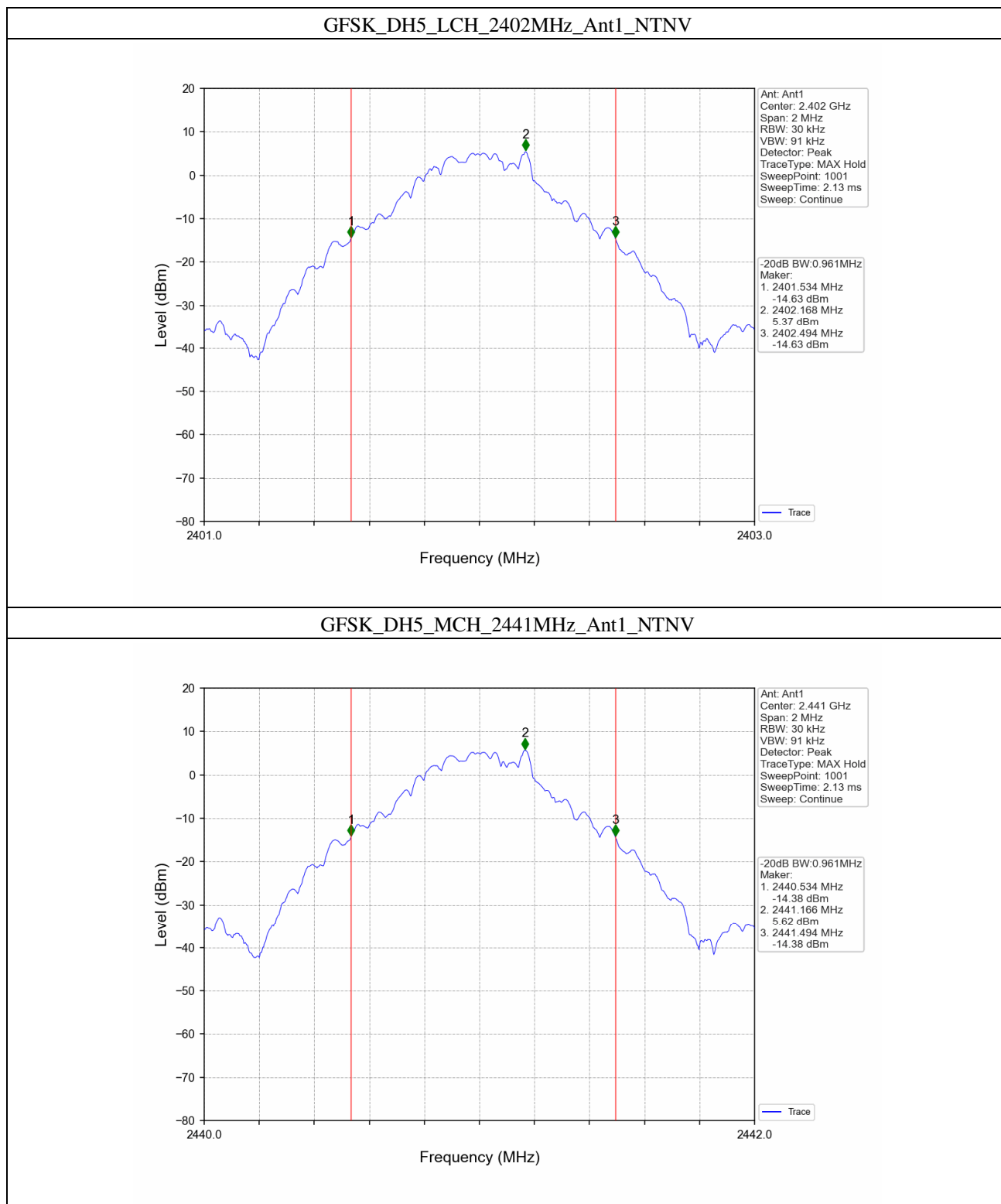
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1.2 20dB BW

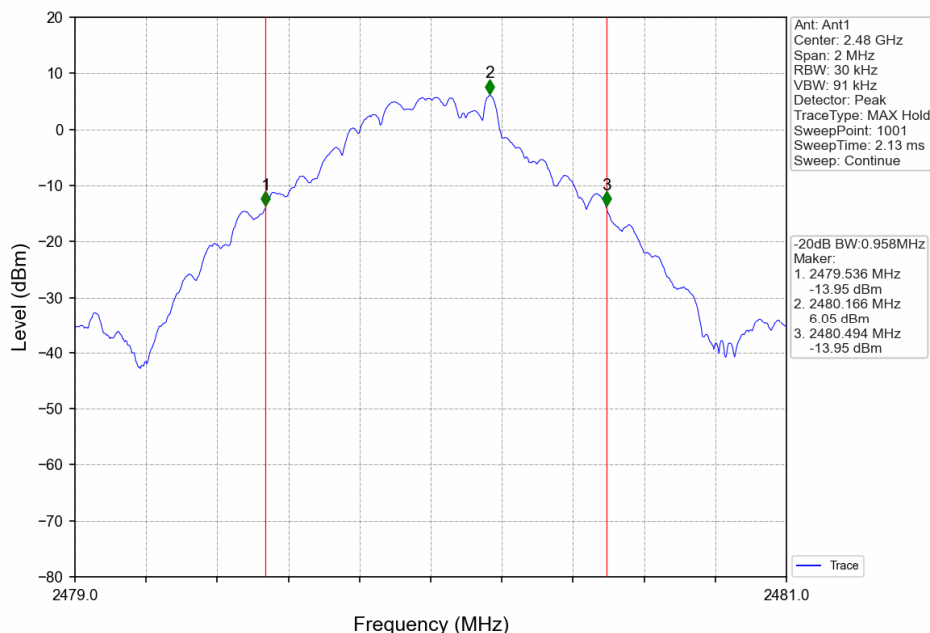
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.961	Pass
		2441	DH5	1	0.961	Pass
		2480	DH5	1	0.958	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.338	Pass
		2441	2DH5	1	1.337	Pass
		2480	2DH5	1	1.338	Pass
8DPSK	SISO	2402	3DH5	1	1.314	Pass
		2441	3DH5	1	1.314	Pass
		2480	3DH5	1	1.316	Pass

1.2.2 Test Graph



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

