

Appendix A for KSCR211200029001

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	0.891	Pass
		2441	DH5	1	0.889	Pass
		2480	DH5	1	0.893	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.209	Pass
		2441	2DH5	1	1.214	Pass
		2480	2DH5	1	1.213	Pass
8DPSK	SISO	2402	3DH5	1	1.201	Pass
		2441	3DH5	1	1.207	Pass
		2480	3DH5	1	1.205	Pass



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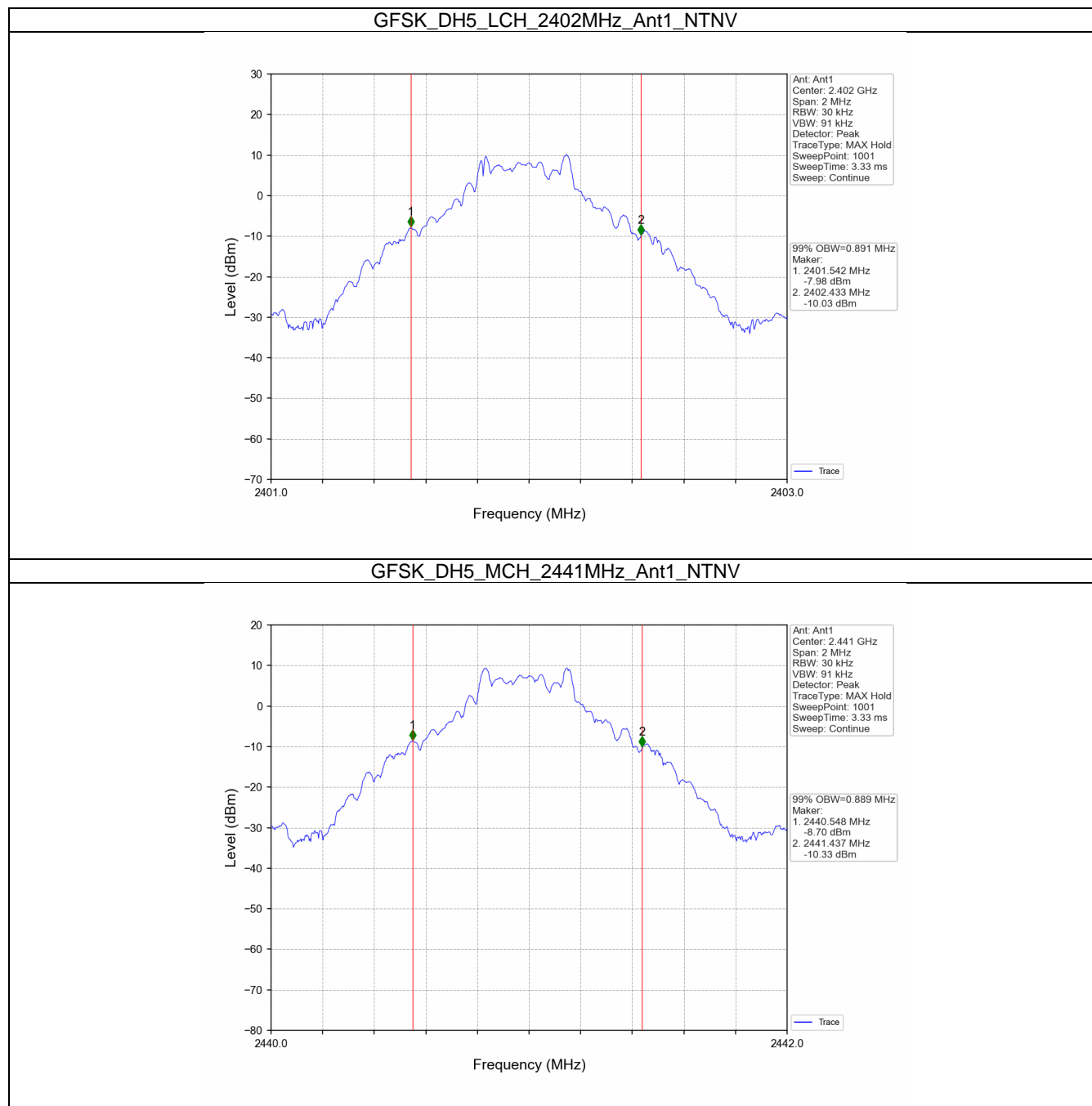
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1.1.2 Test Graph



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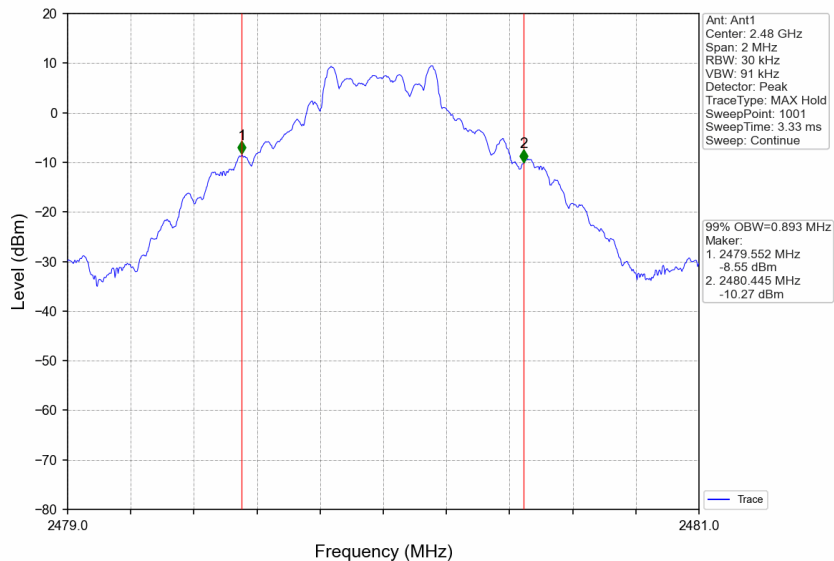
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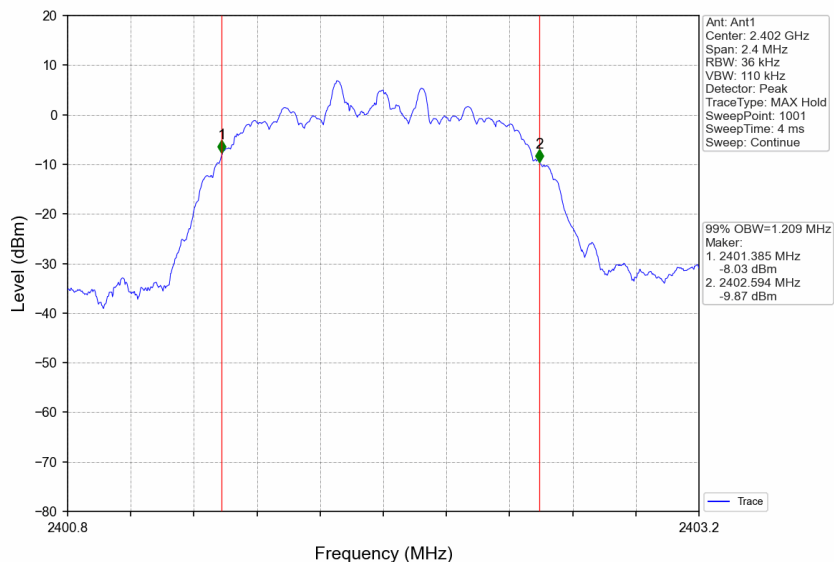
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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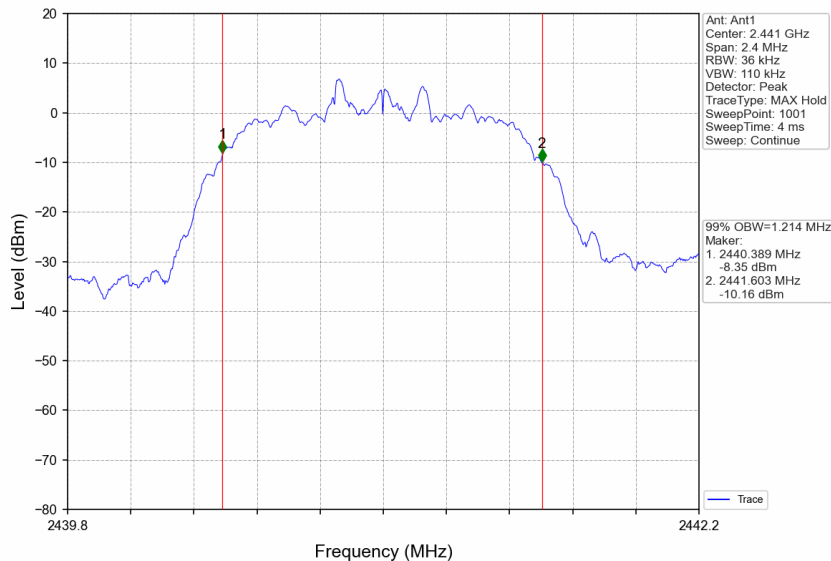
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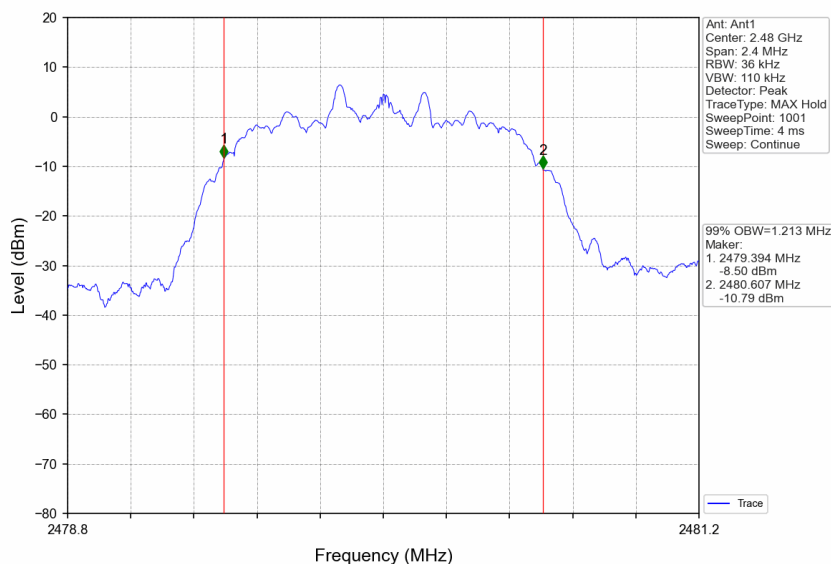
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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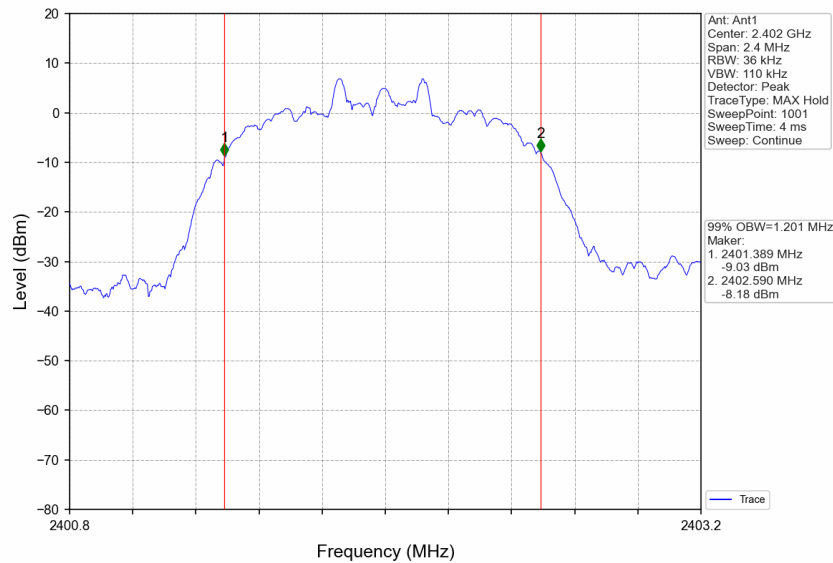
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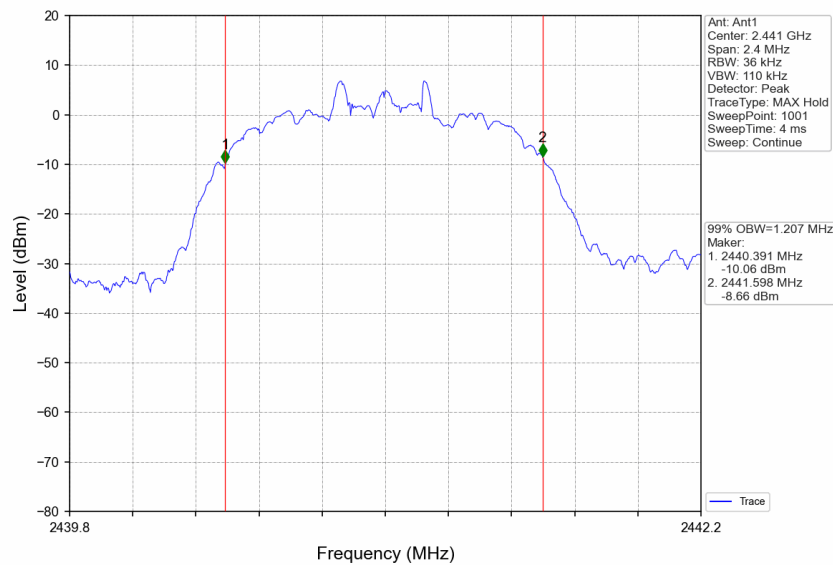
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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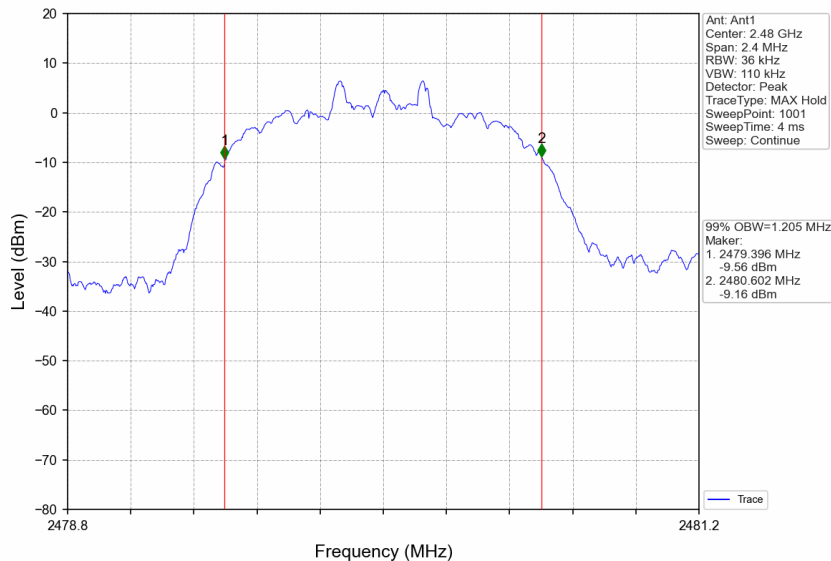
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	0.944	Pass
		2441	DH5	1	0.945	Pass
		2480	DH5	1	0.941	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.345	Pass
		2441	2DH5	1	1.345	Pass
		2480	2DH5	1	1.344	Pass
8DPSK	SISO	2402	3DH5	1	1.313	Pass
		2441	3DH5	1	1.311	Pass
		2480	3DH5	1	1.312	Pass



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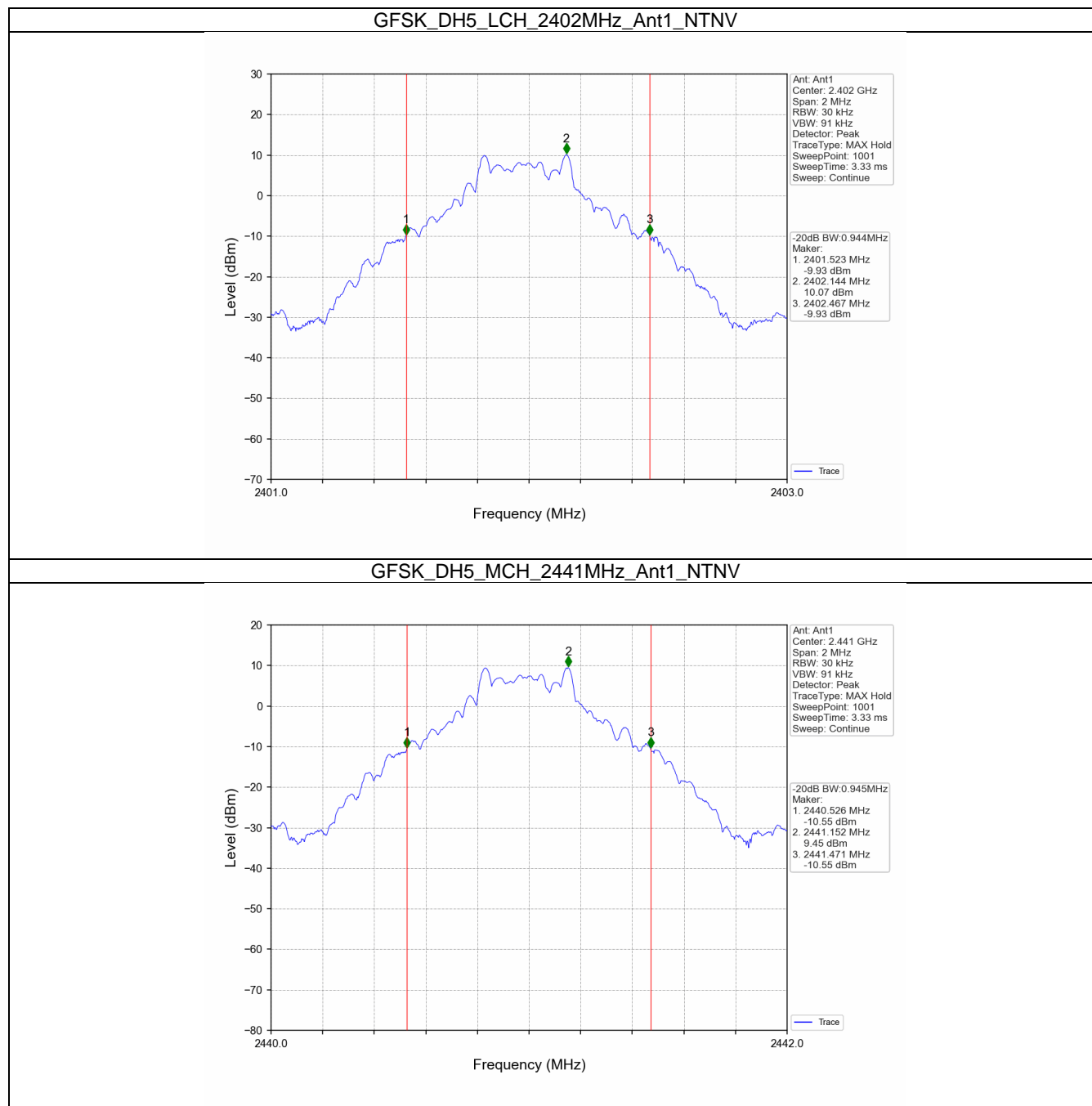
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1.2.2 Test Graph



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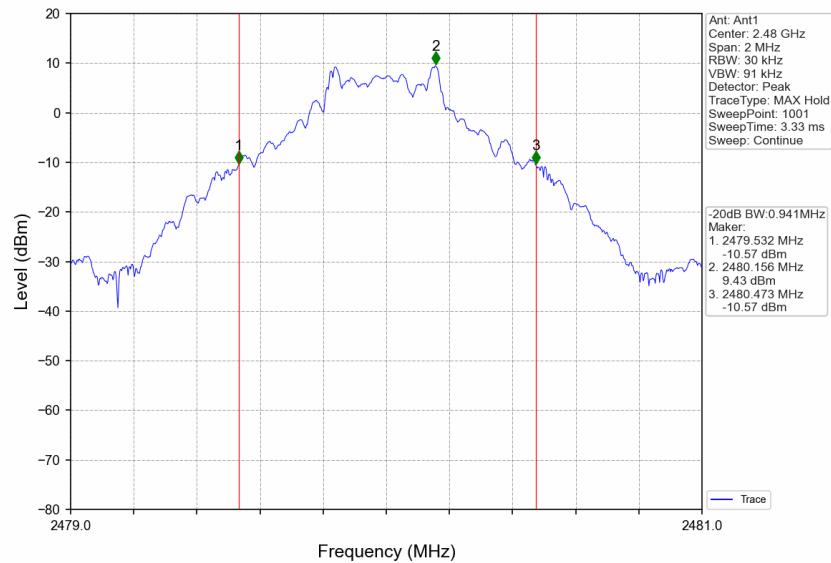
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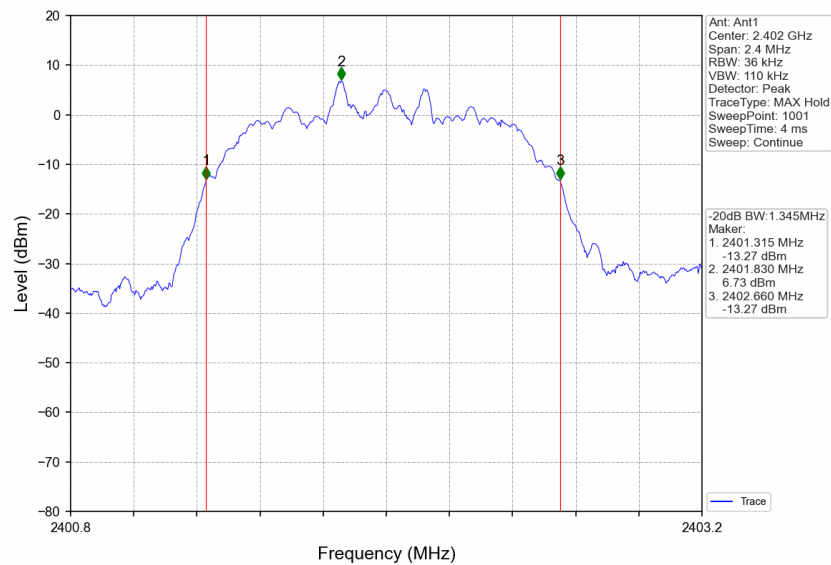
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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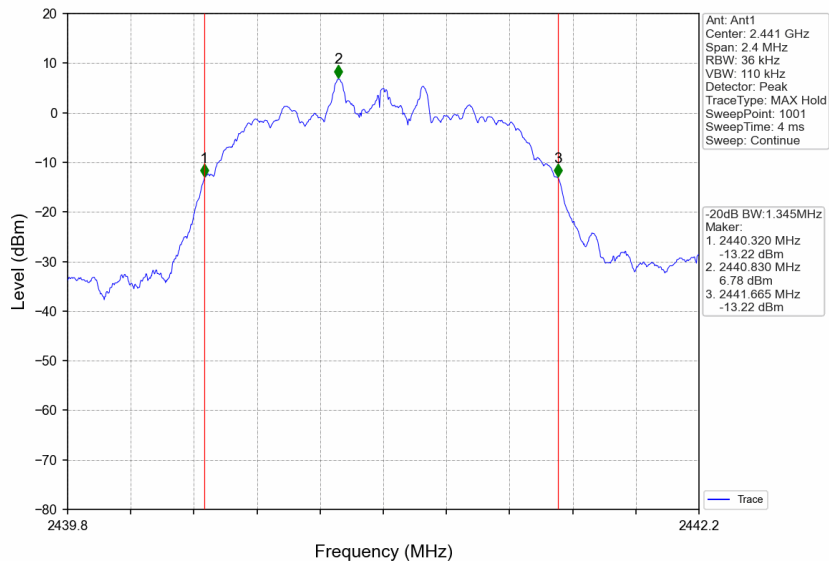
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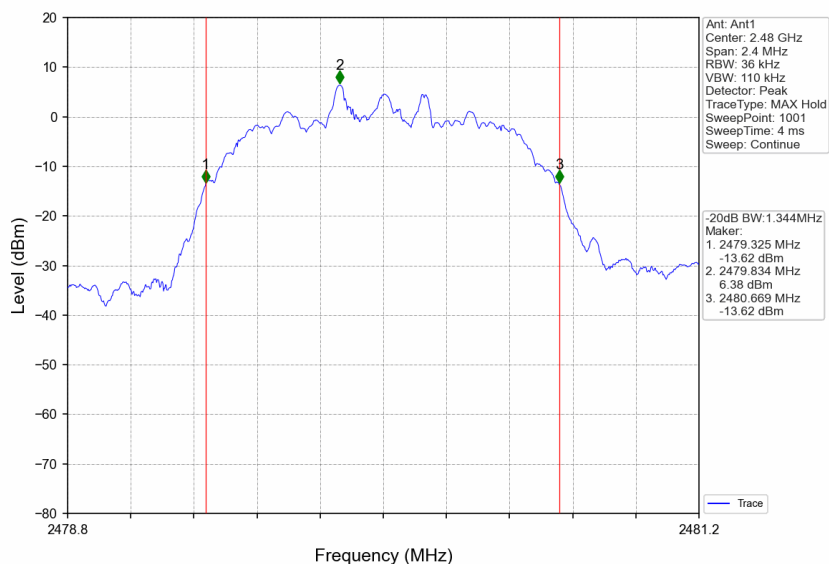
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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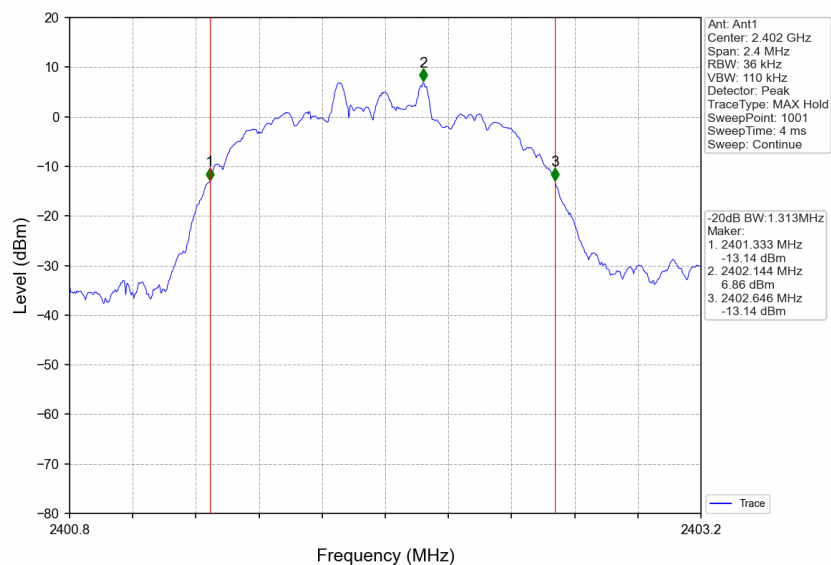
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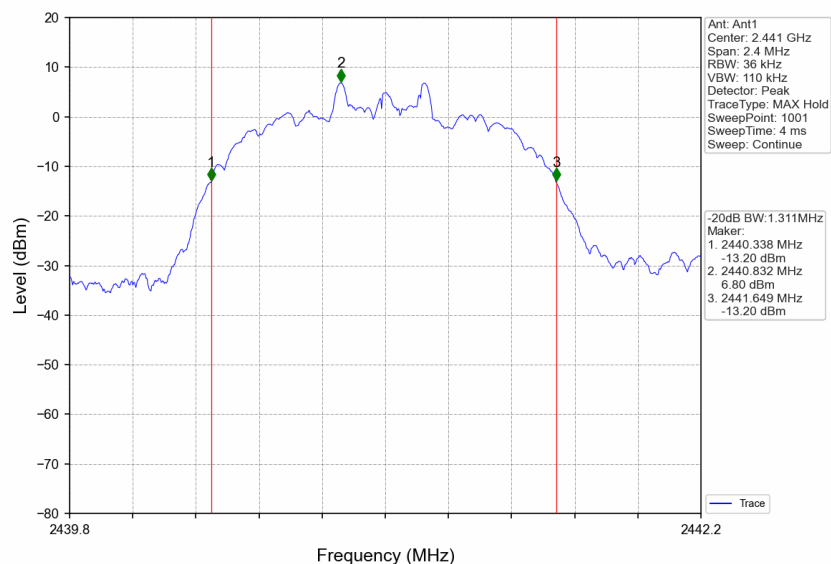
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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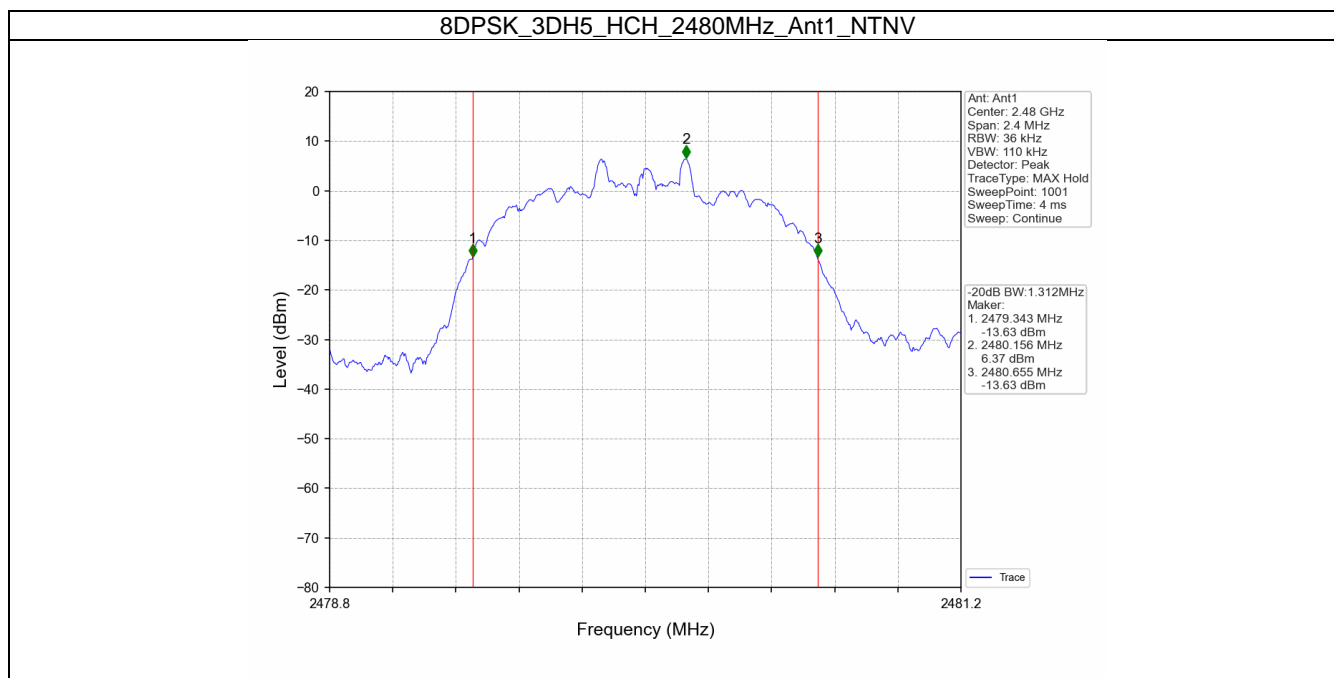
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				Ant1	Limit	
GFSK	SISO	2402	DH5	11.28	<=30	Pass
		2441	DH5	10.72	<=30	Pass
		2480	DH5	10.70	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	9.68	<=20.97	Pass
		2441	2DH5	9.49	<=20.97	Pass
		2480	2DH5	9.10	<=20.97	Pass
8DPSK	SISO	2402	3DH5	10.07	<=20.97	Pass
		2441	3DH5	9.85	<=20.97	Pass
		2480	3DH5	9.46	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.88dBi;



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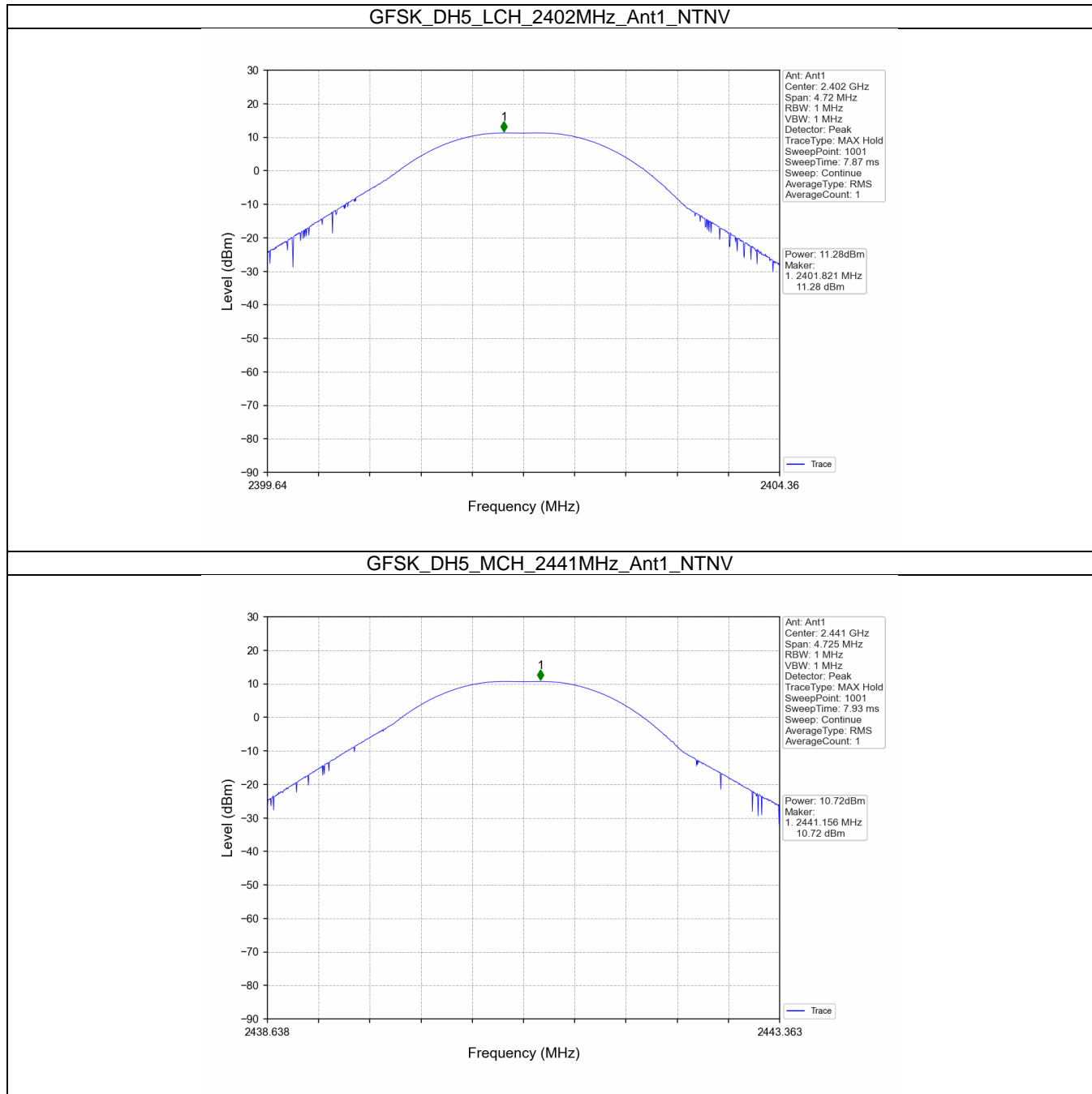
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2.1.2 Test Graph



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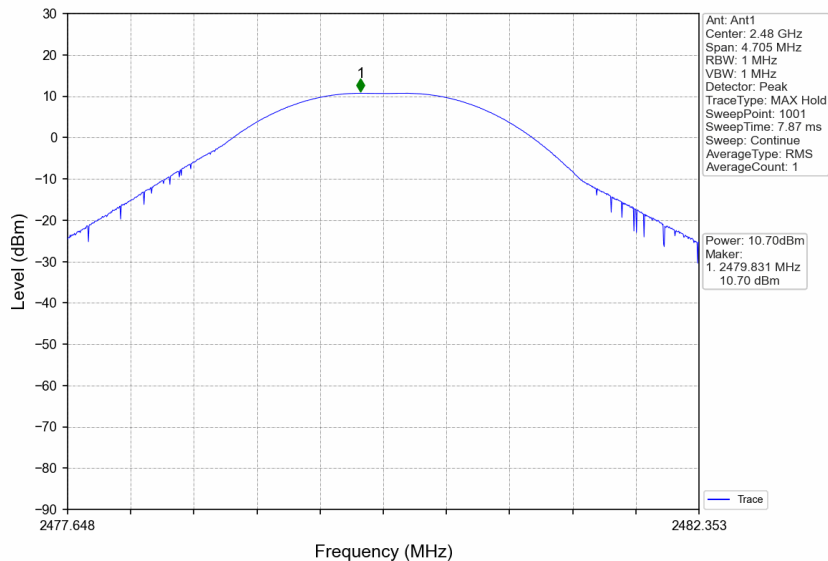
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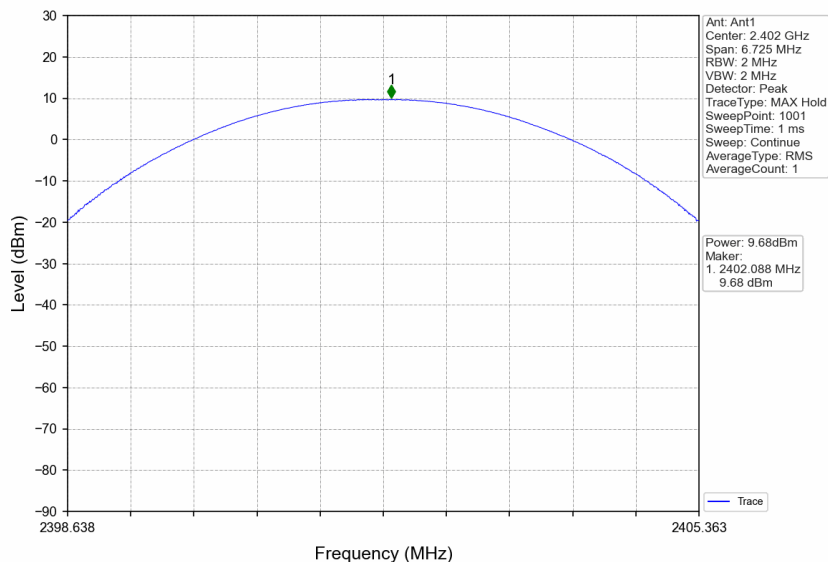
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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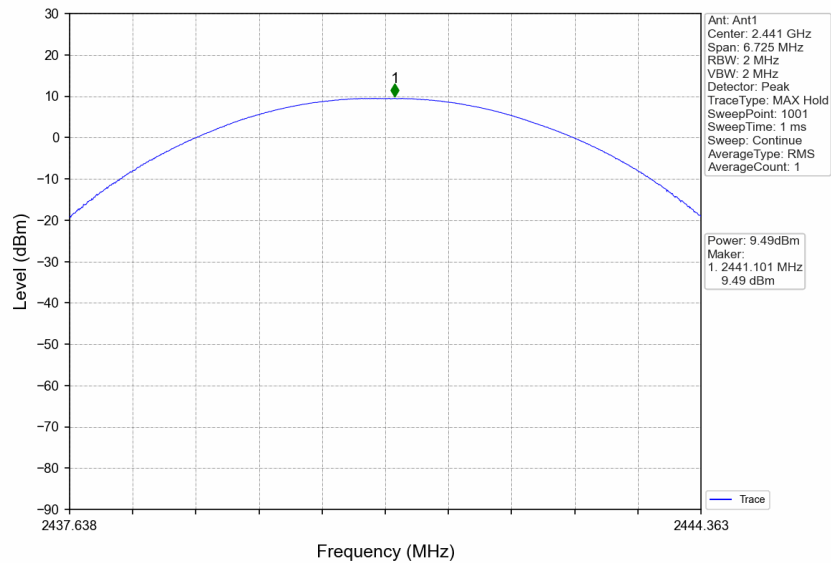
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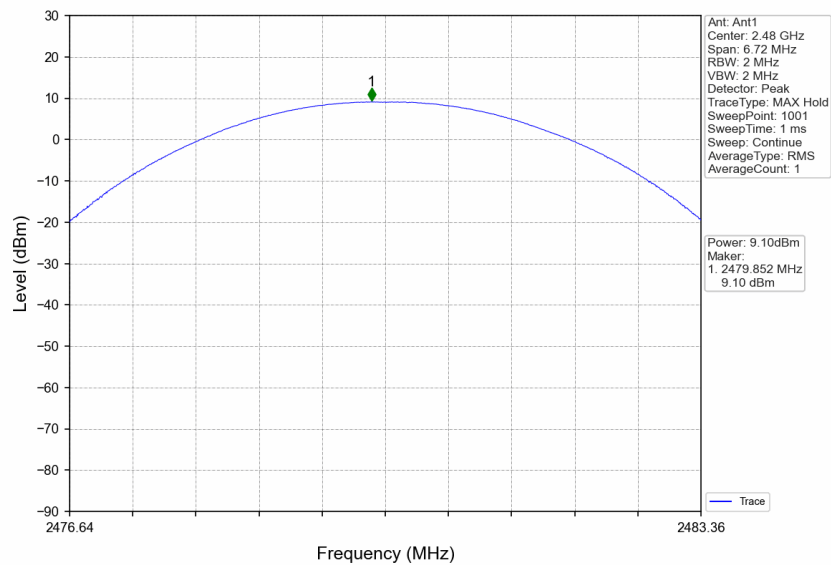
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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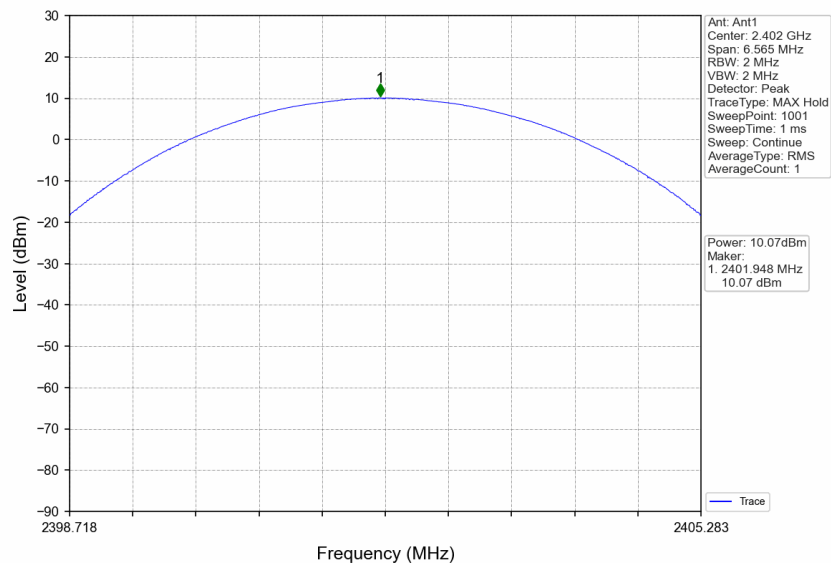
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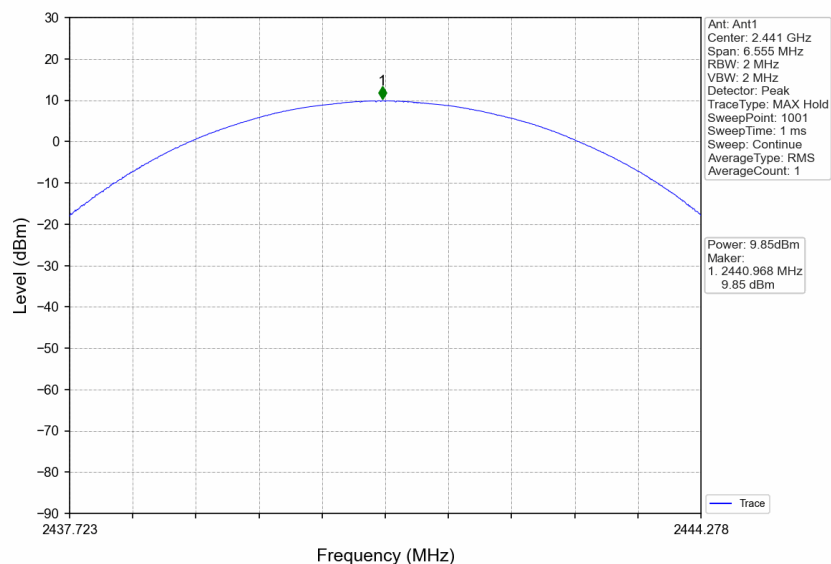
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

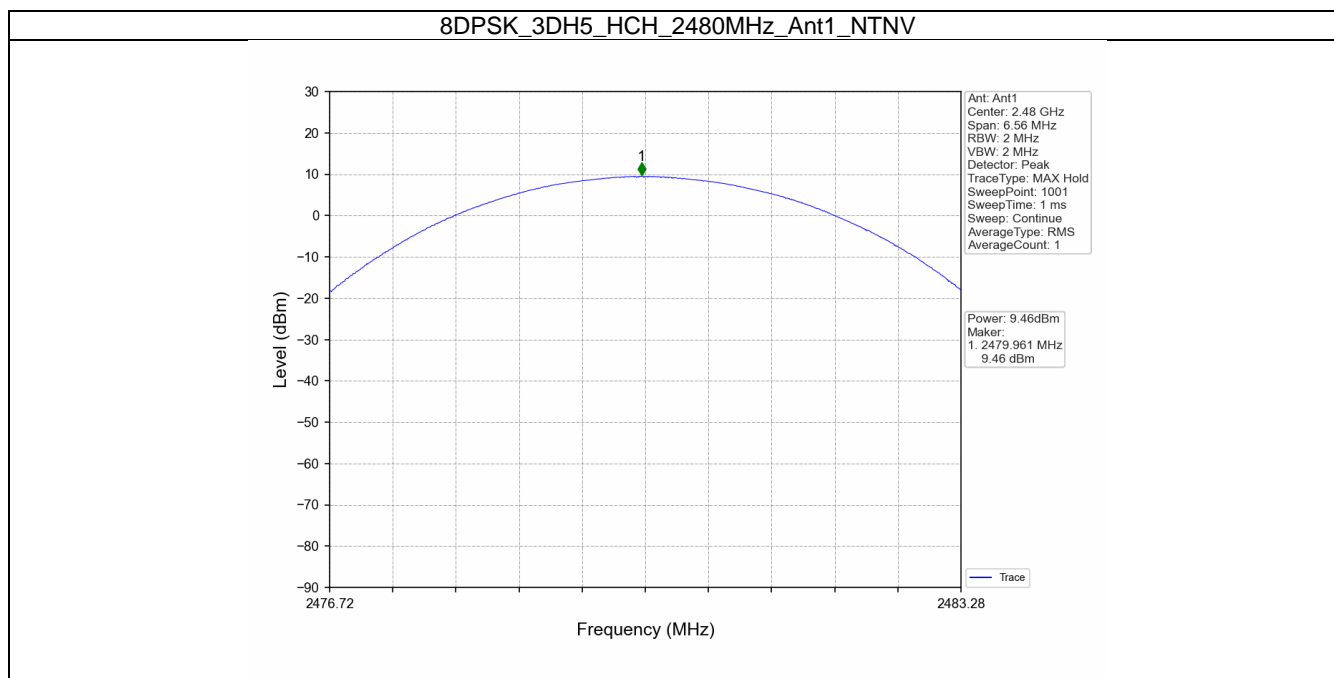


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3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.012	0.945	≥ 0.945	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.018	1.345	≥ 0.897	Pass
8DPSK	SISO	HOPP	3DH5	1.010	1.313	≥ 0.875	Pass



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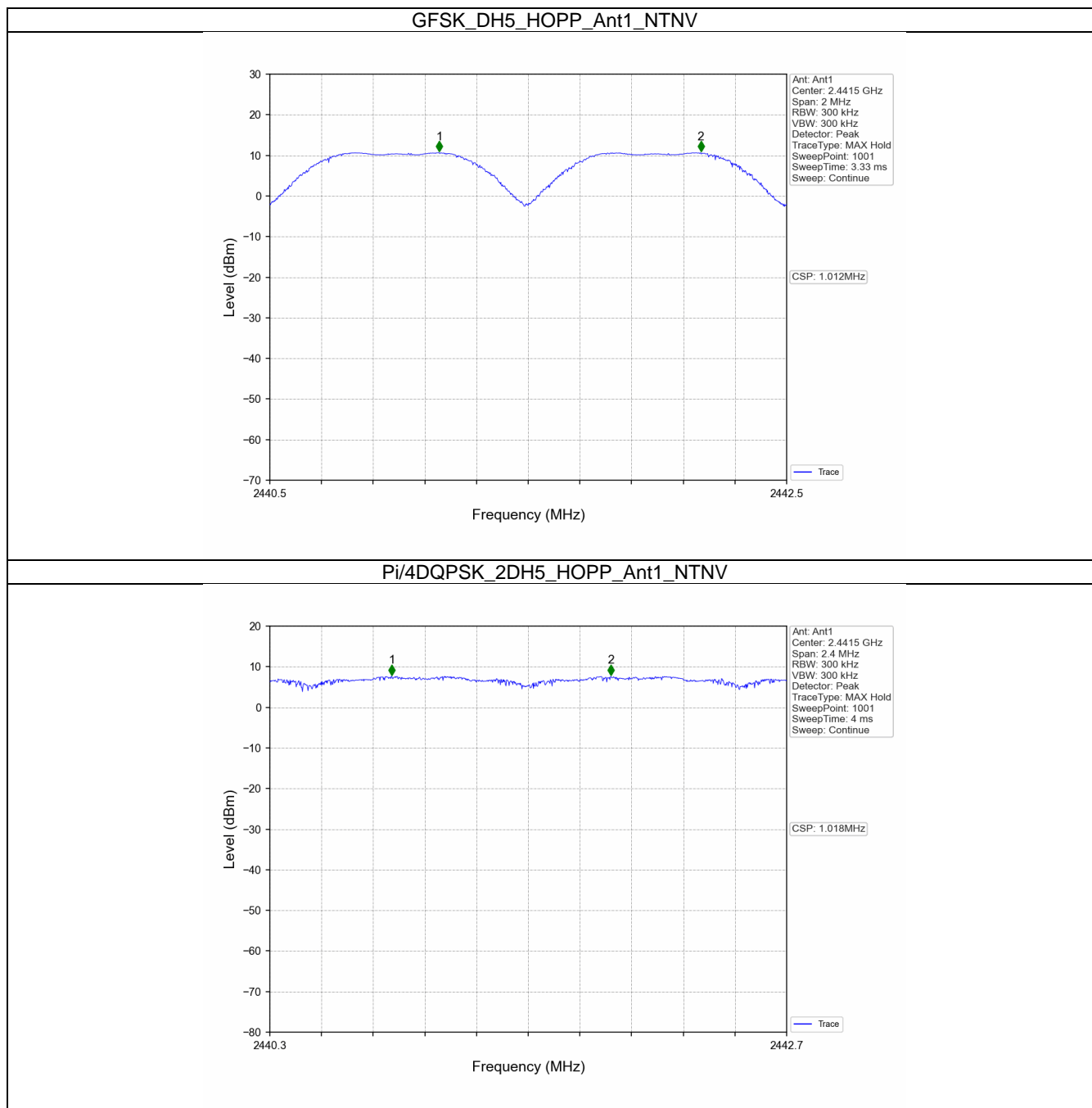
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3.1.2 Test Graph

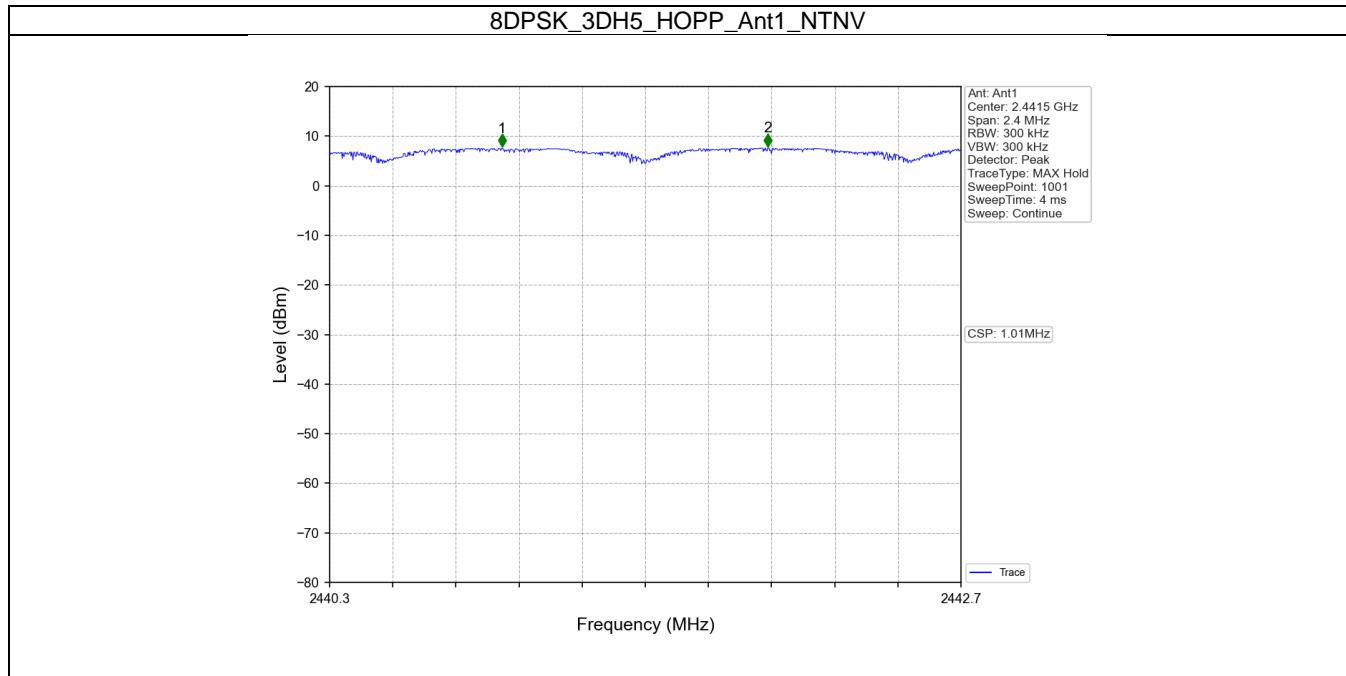


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4. Number of Hopping Frequencies

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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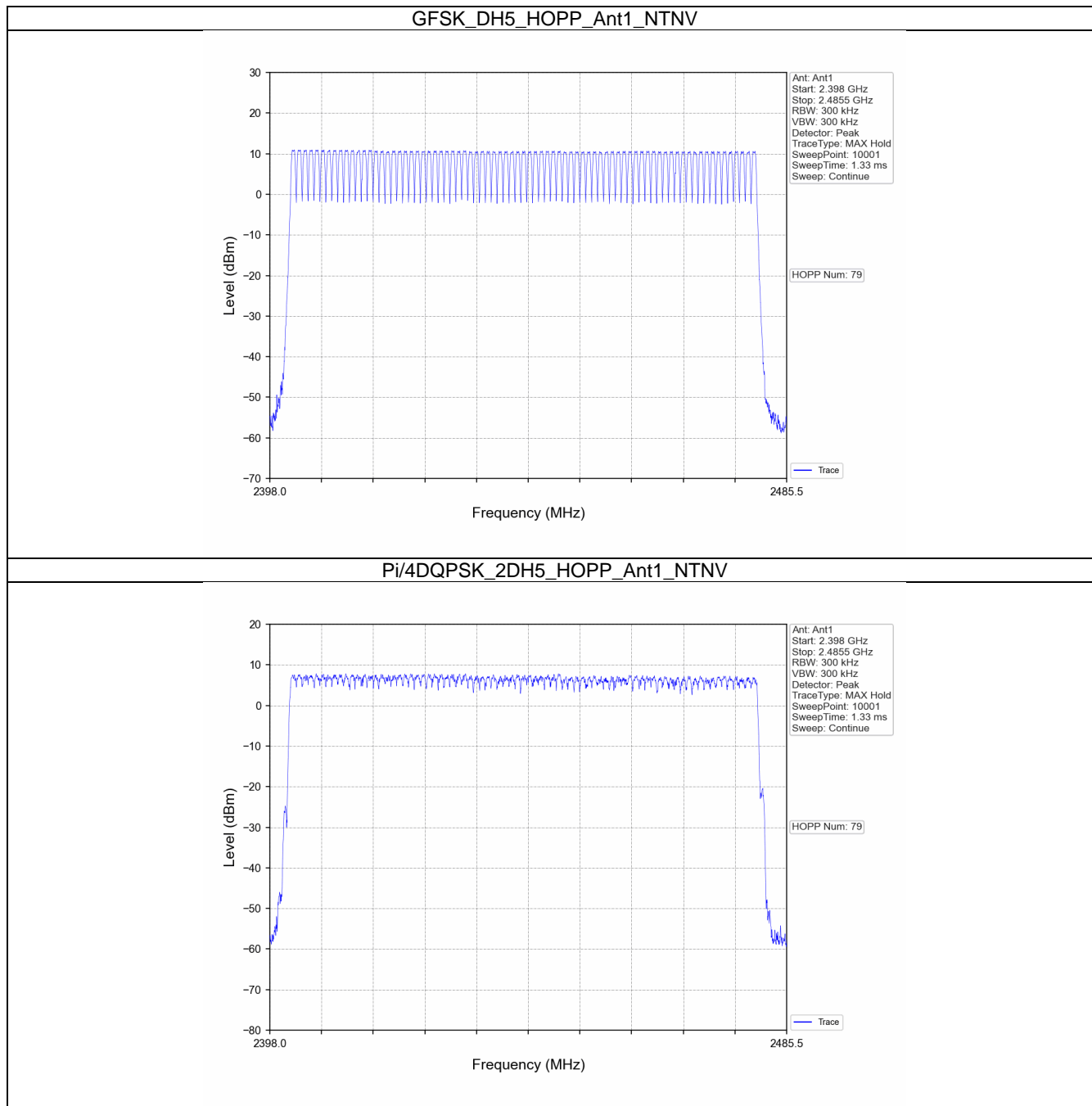
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4.1.2 Test Graph

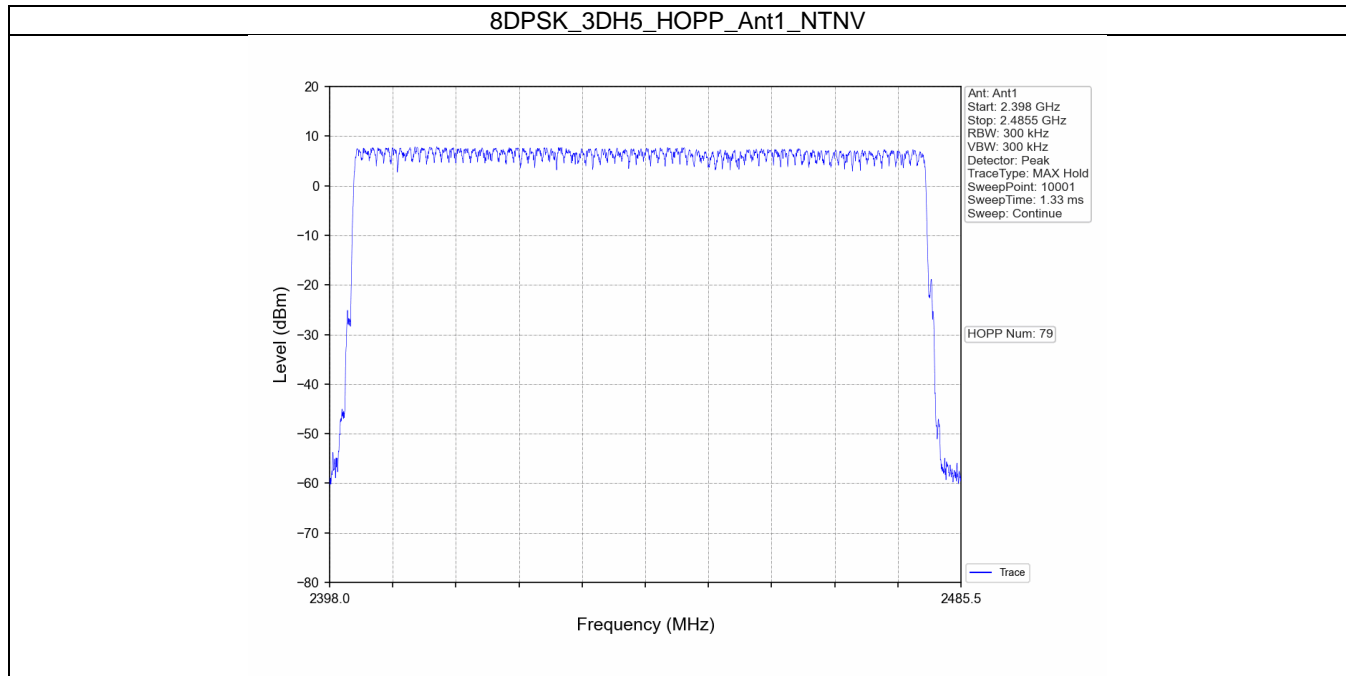


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5. Time of Occupancy (Dwell Time)

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	0.384	31.600	320	122.880	<=400	Pass
			DH3	1.640	31.600	159	260.760	<=400	Pass
			DH5	2.890	31.600	109	315.010	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.390	31.600	320	124.800	<=400	Pass
			2DH3	1.642	31.600	156	256.152	<=400	Pass
			2DH5	2.890	31.600	93	268.770	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.390	31.600	320	124.800	<=400	Pass
			3DH3	1.640	31.600	159	260.760	<=400	Pass
			3DH5	2.892	31.600	106	306.552	<=400	Pass



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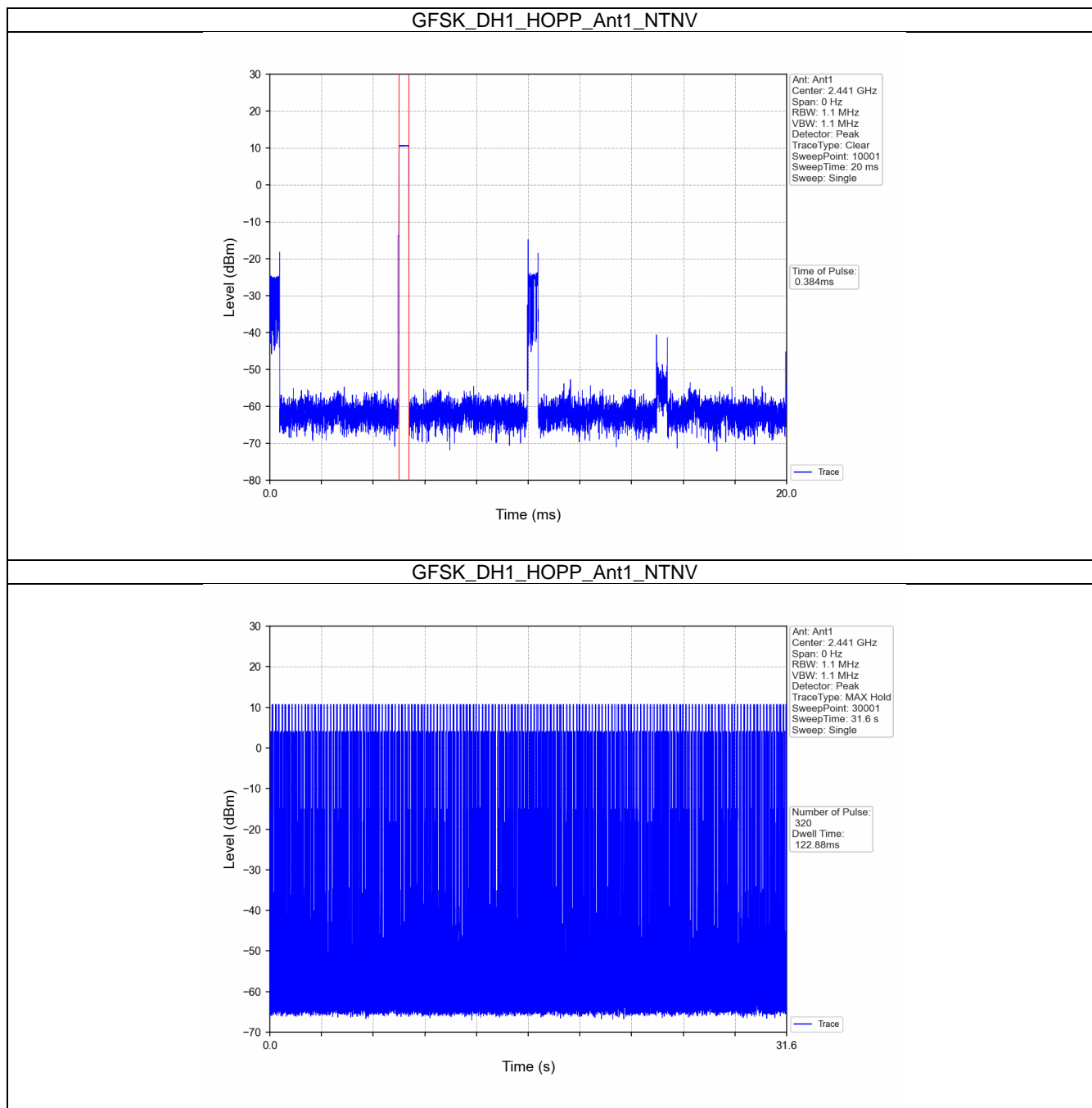
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5.1.2 Test Graph



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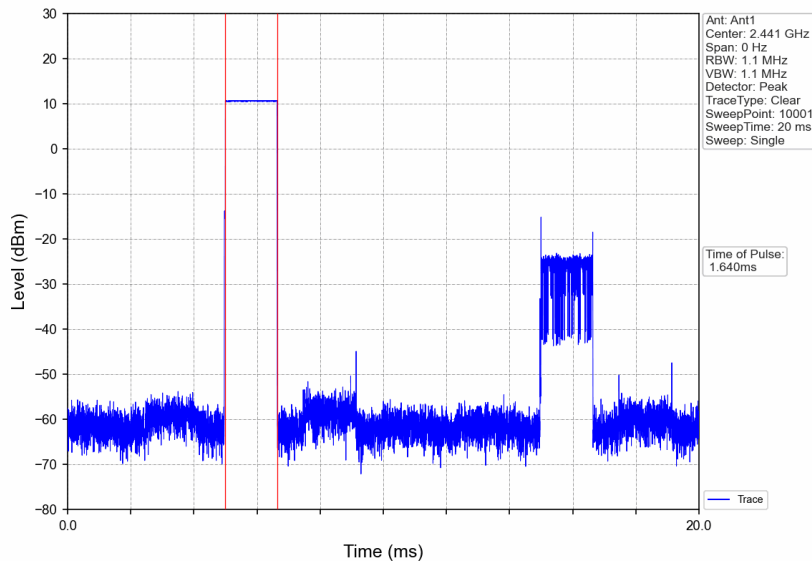
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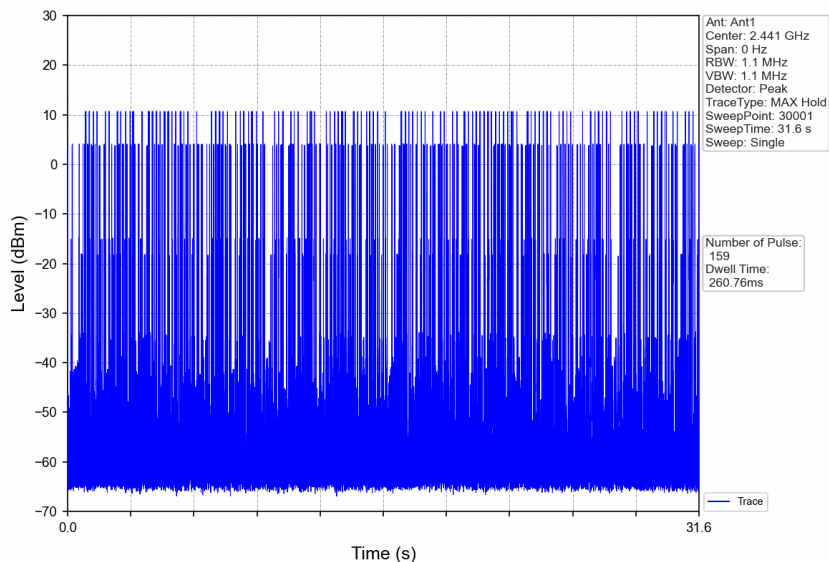
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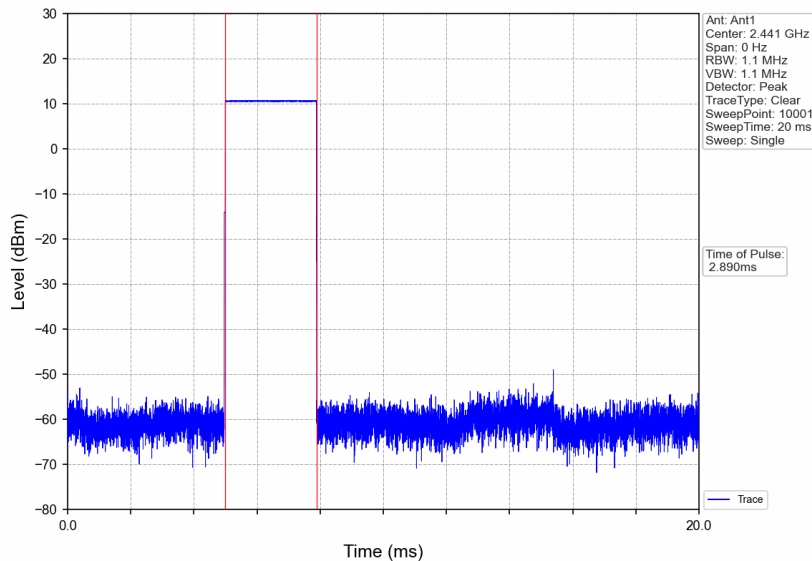
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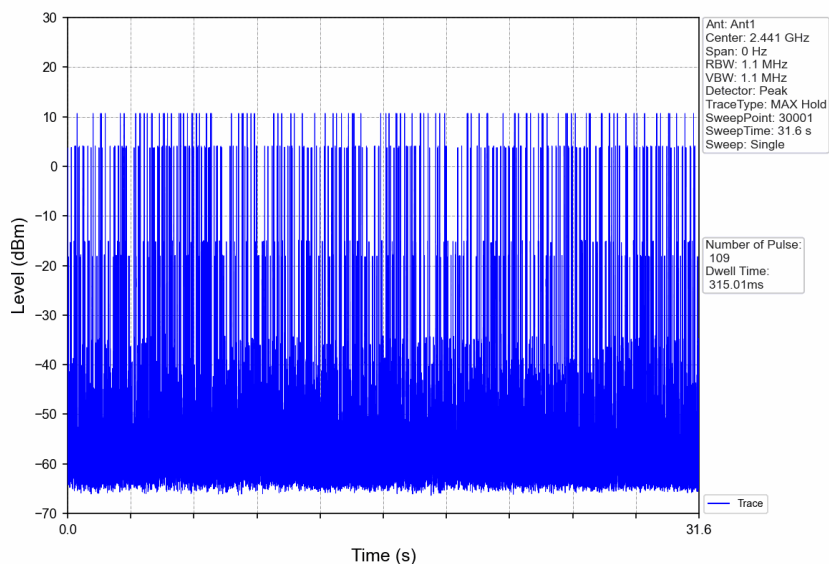
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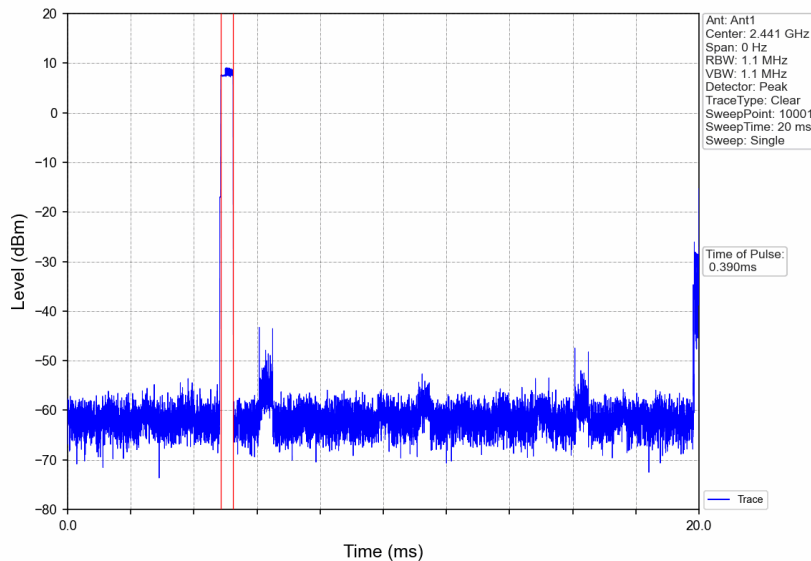
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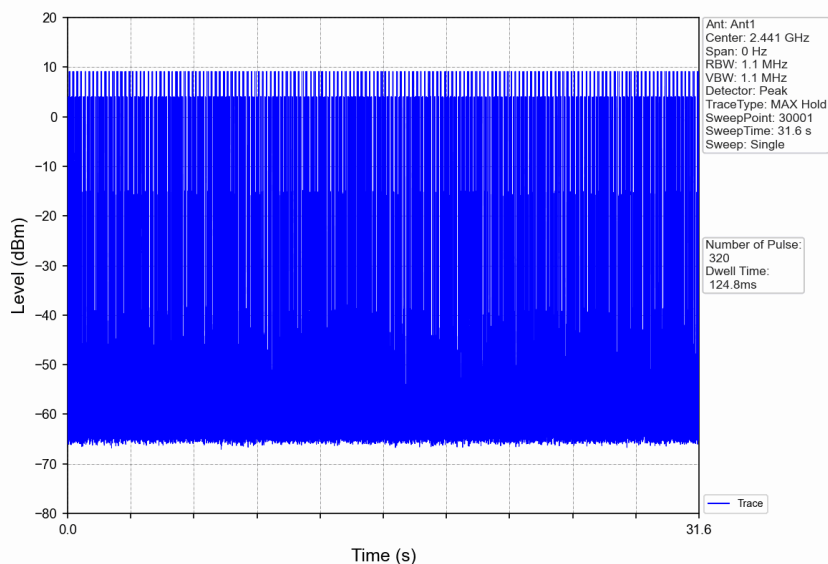
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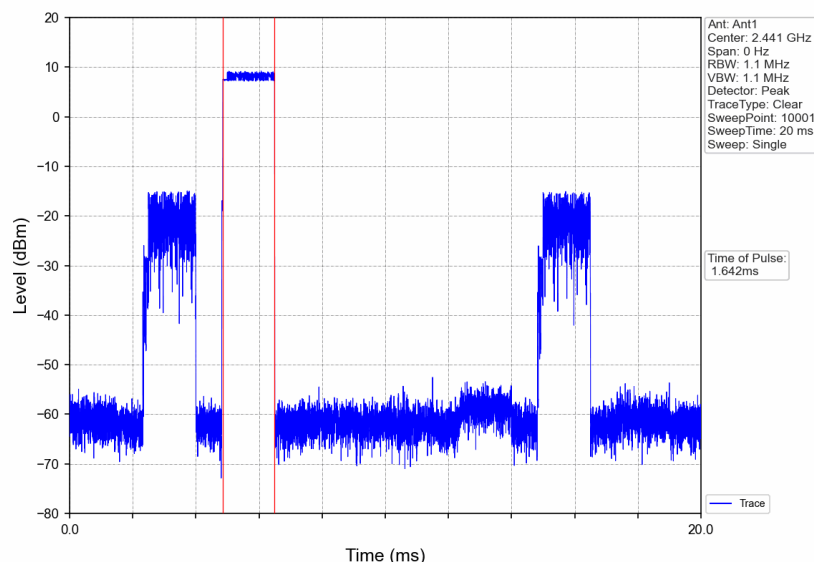
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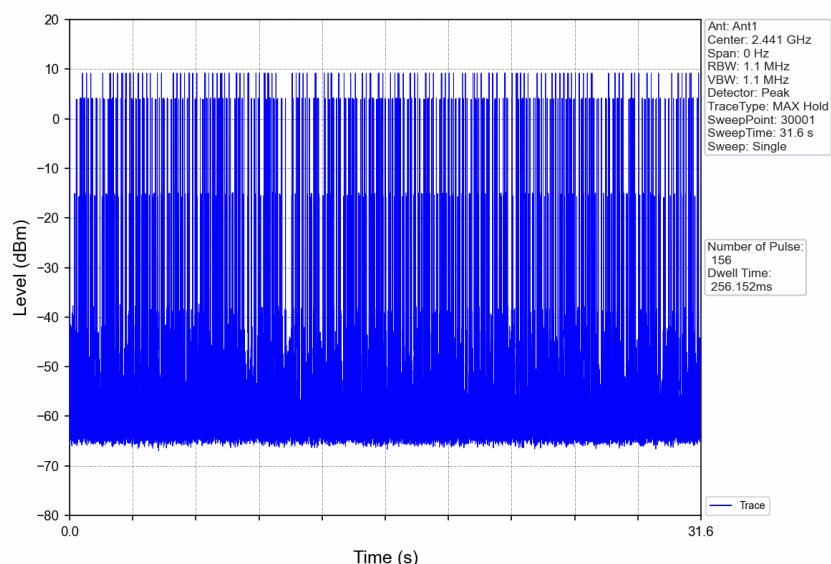
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Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH3_HOPP_Ant1_NTNV



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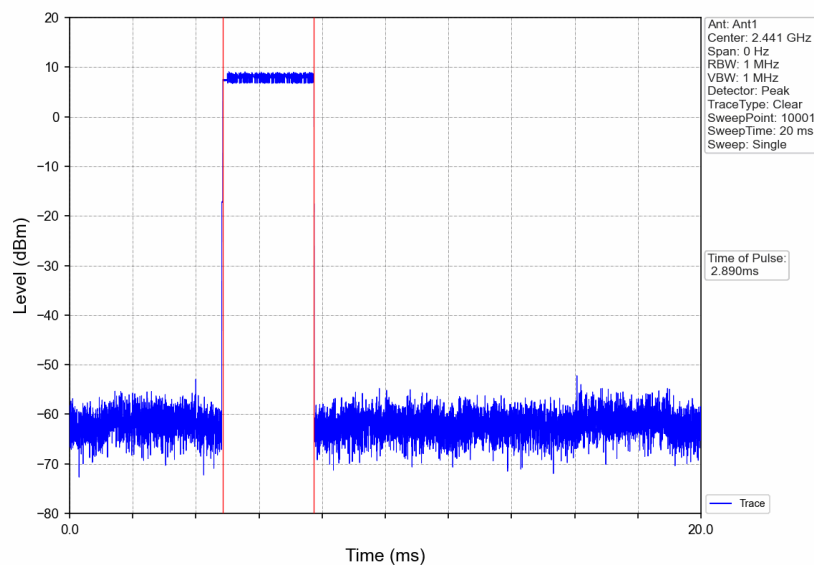
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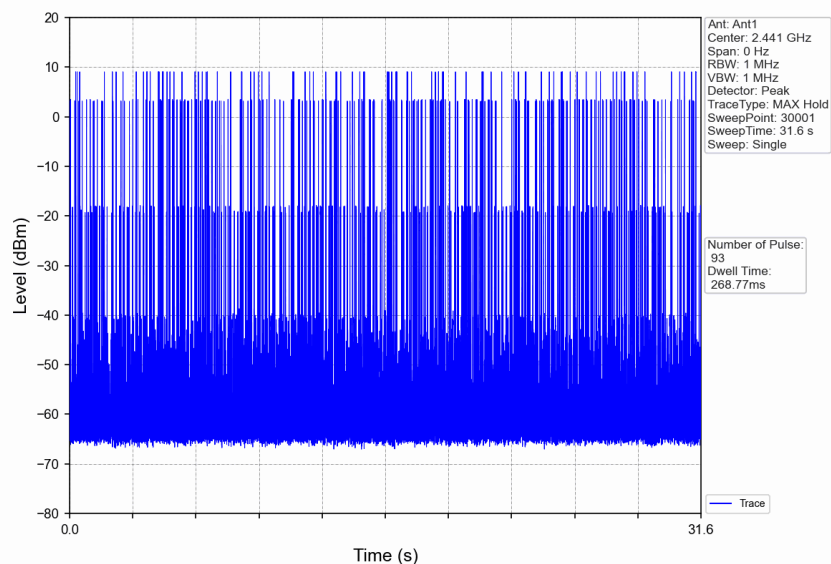
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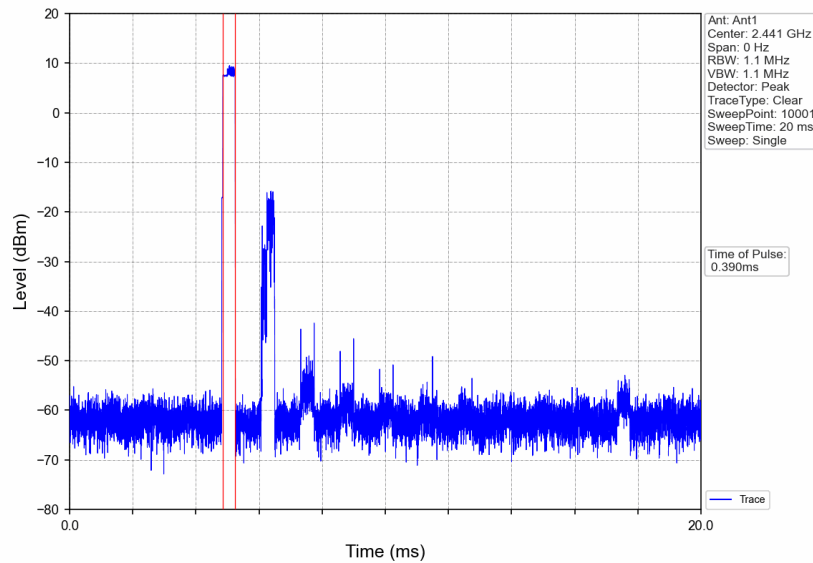
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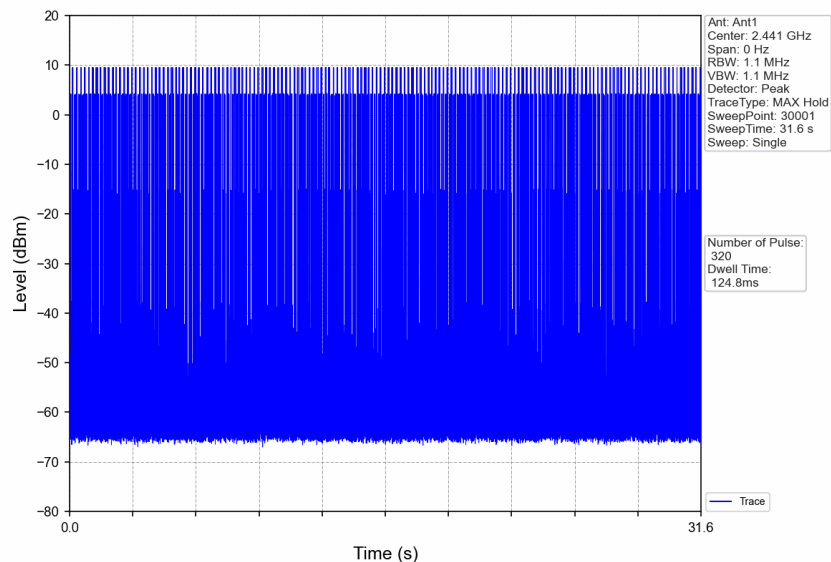
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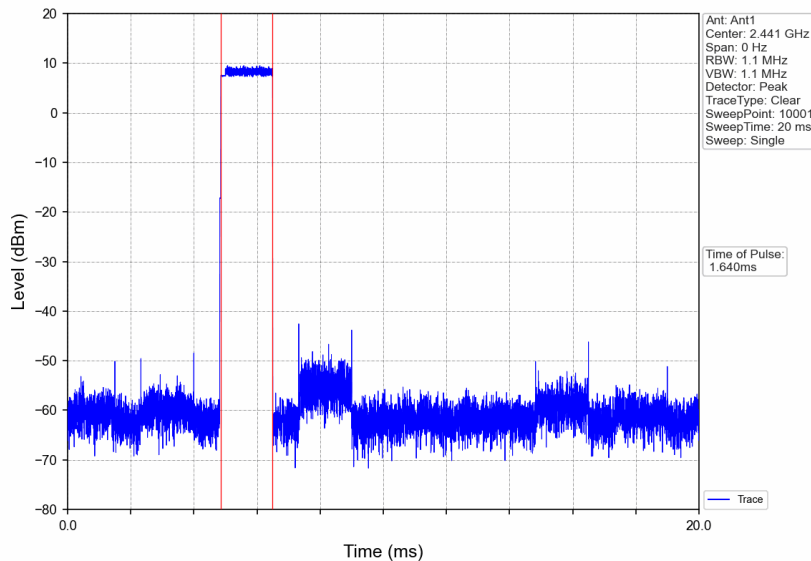
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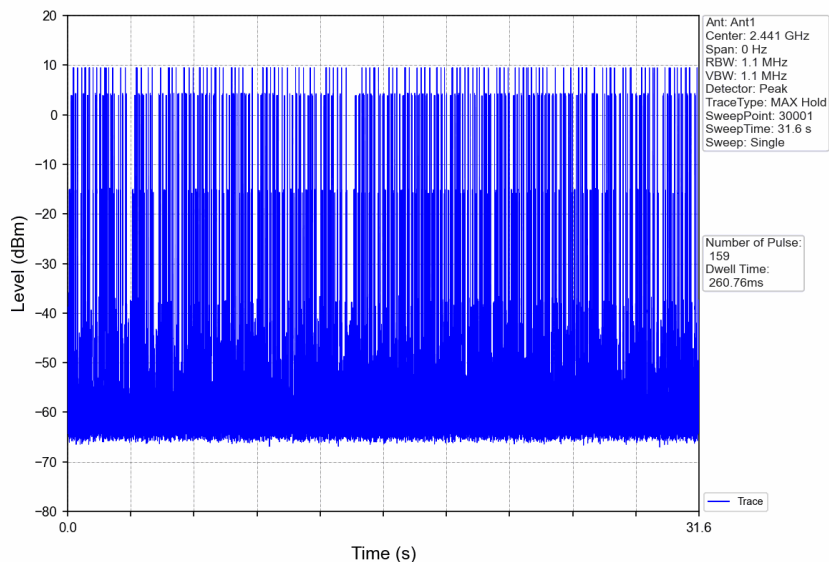
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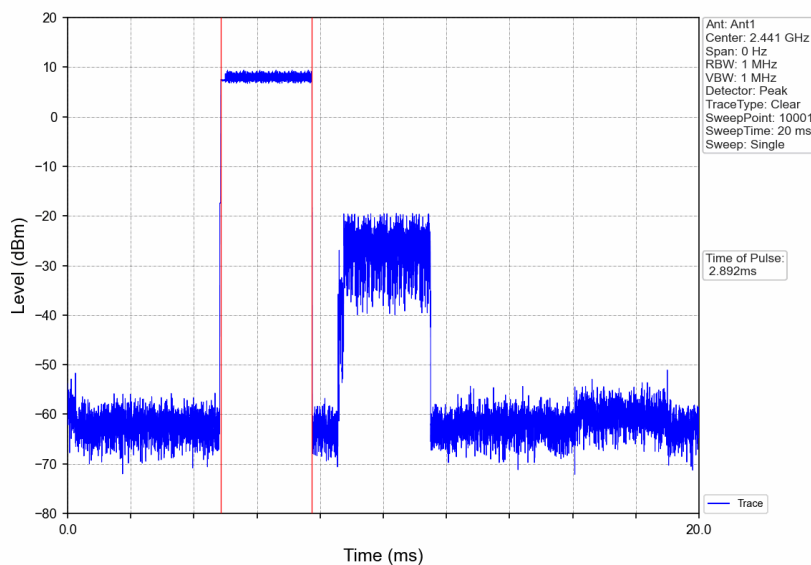
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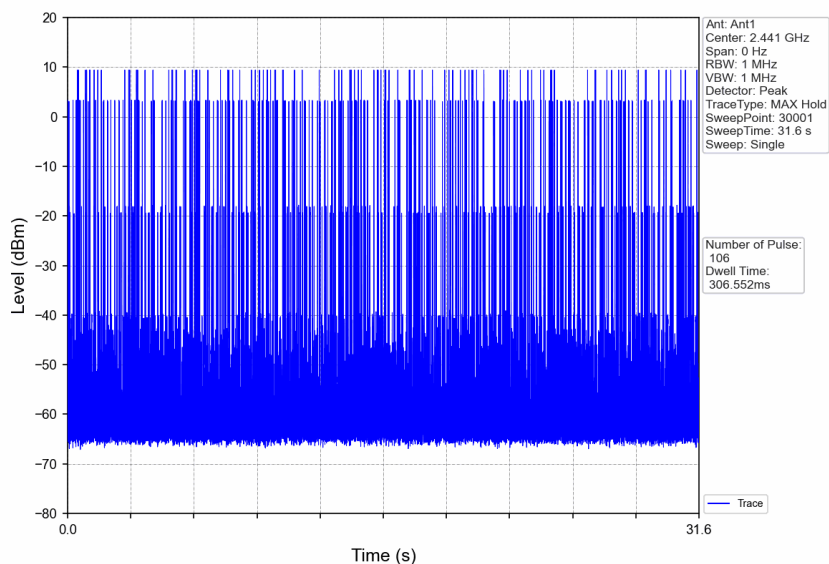
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6. Unwanted Emissions In Non-restricted Frequency Bands

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	11.17
		2441	DH5	1	10.59
		2480	DH5	1	10.57
Pi/4DQPSK	SISO	2402	2DH5	1	7.53
		2441	2DH5	1	7.46
		2480	2DH5	1	7.08
8DPSK	SISO	2402	3DH5	1	7.53
		2441	3DH5	1	7.47
		2480	3DH5	1	7.09

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.



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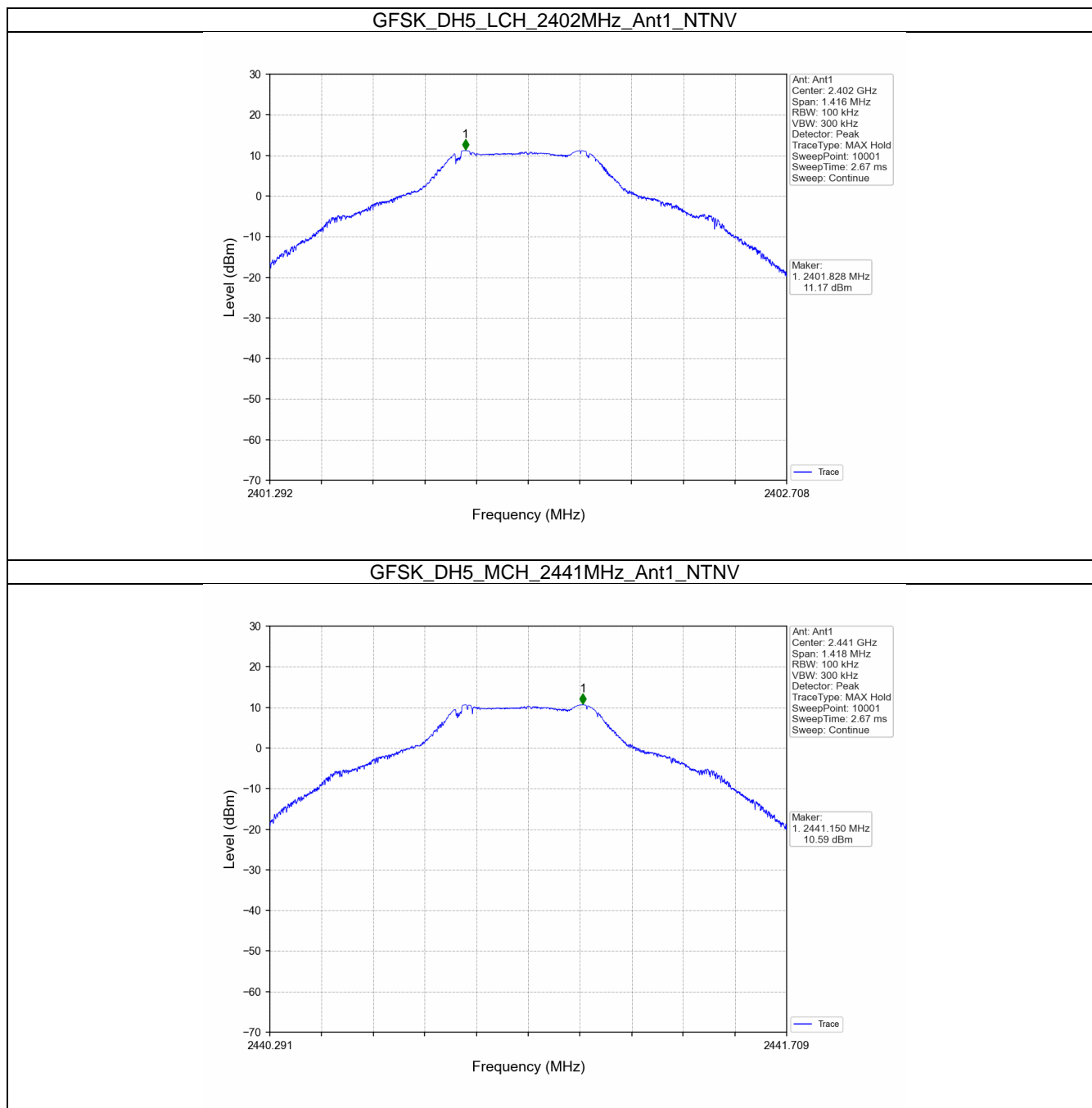
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6.1.2 Test Graph



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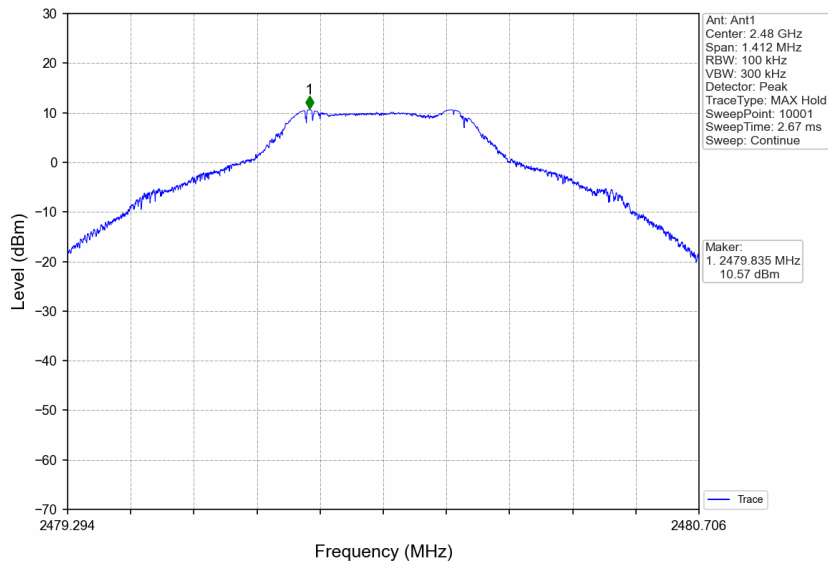
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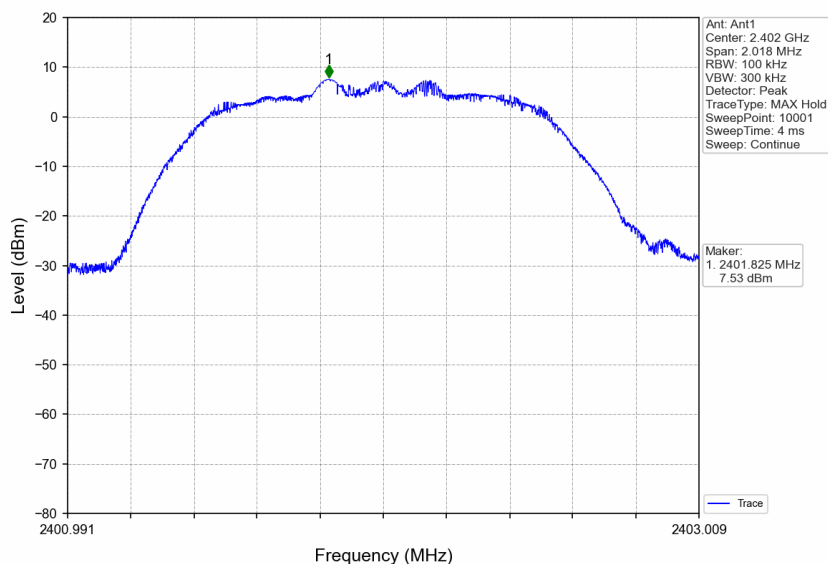
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



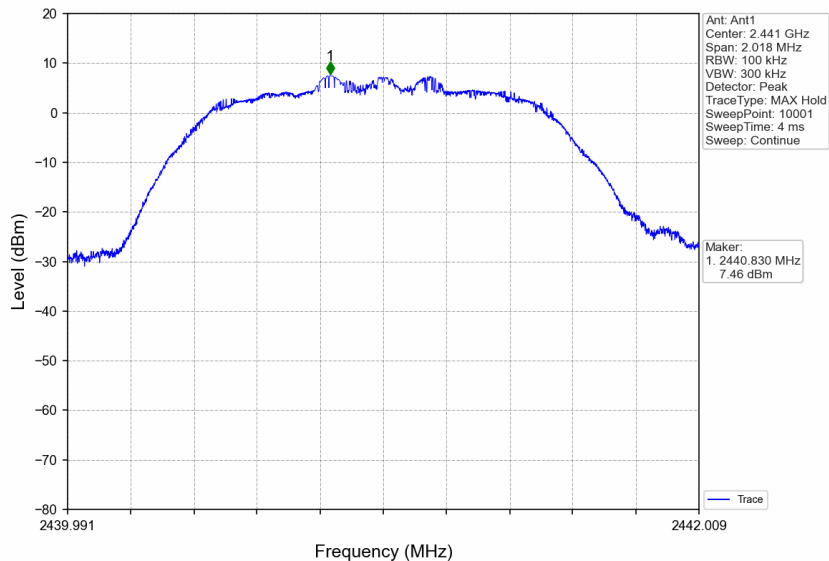
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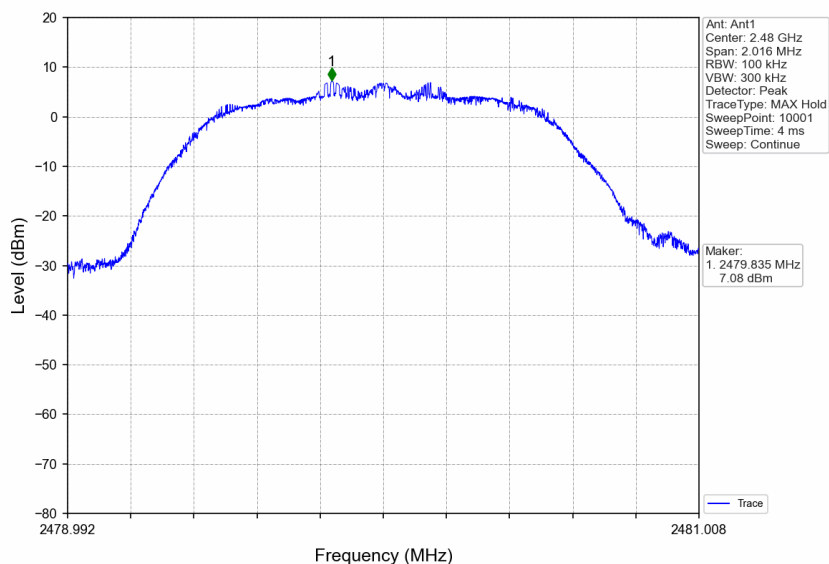
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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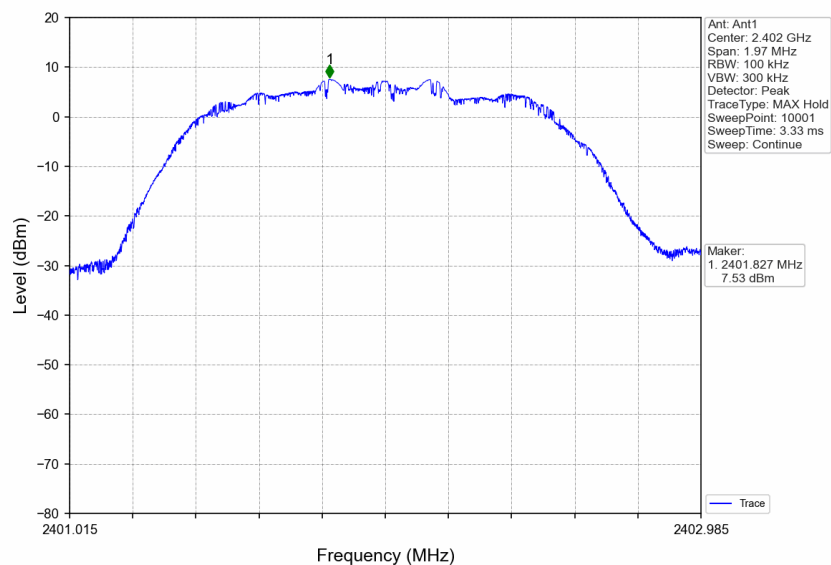
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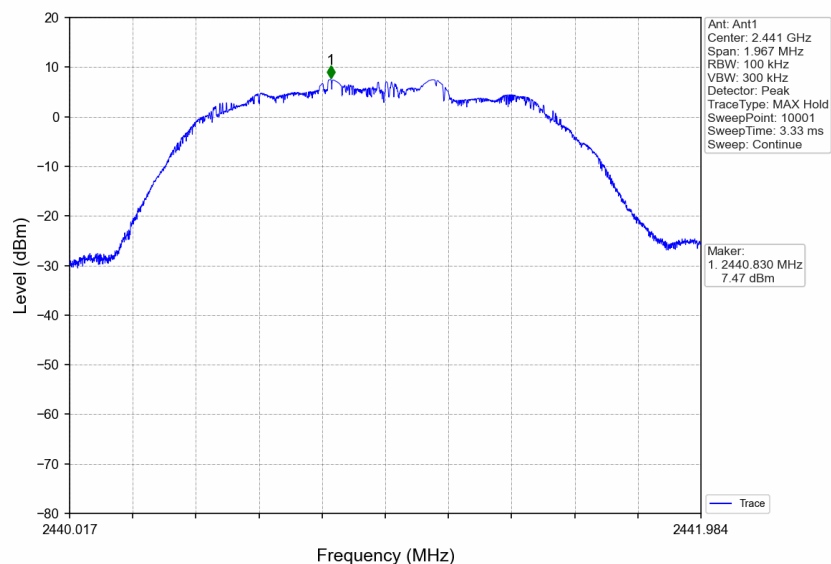
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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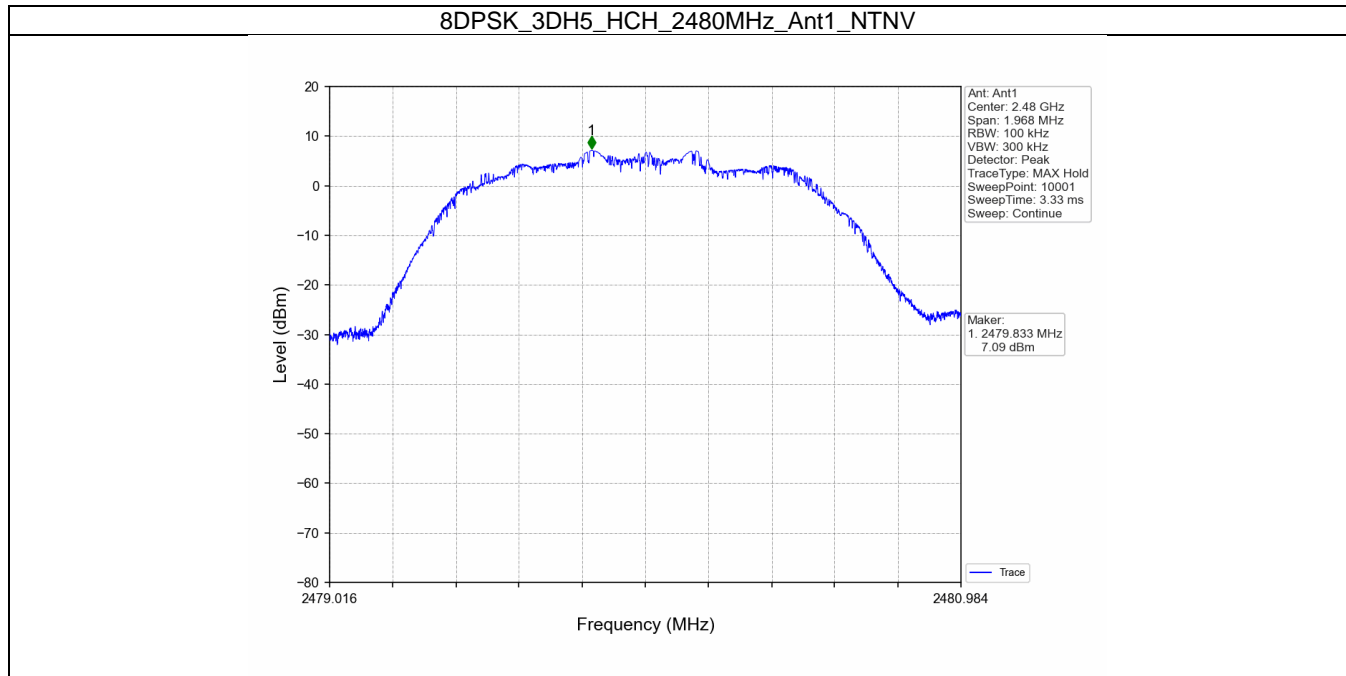
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6.2 CSE

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	11.17	-8.83	Pass
		2441	DH5	1	11.17	-8.83	Pass
		2480	DH5	1	11.17	-8.83	Pass
		HOPP	DH5	1	11.17	-8.83	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	7.53	-12.47	Pass
		2441	2DH5	1	7.53	-12.47	Pass
		2480	2DH5	1	7.53	-12.47	Pass
		HOPP	2DH5	1	7.53	-12.47	Pass
8DPSK	SISO	2402	3DH5	1	7.53	-12.47	Pass
		2441	3DH5	1	7.53	-12.47	Pass
		2480	3DH5	1	7.53	-12.47	Pass
		HOPP	3DH5	1	7.53	-12.47	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.



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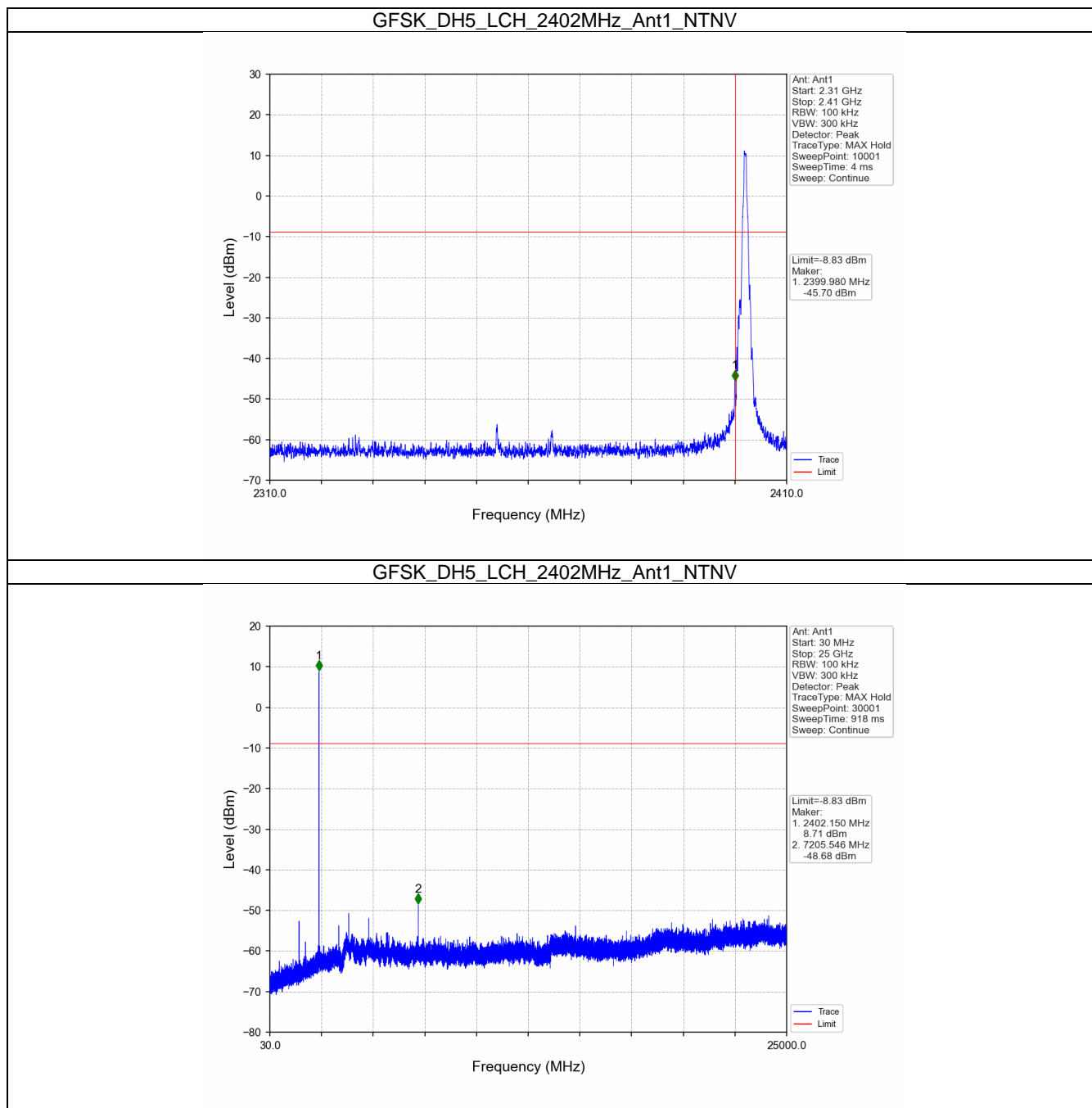
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6.2.2 Test Graph



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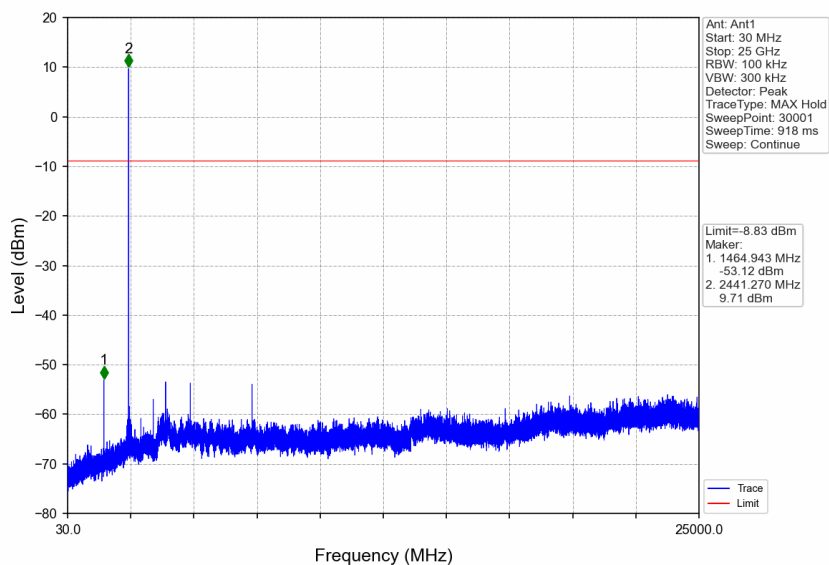
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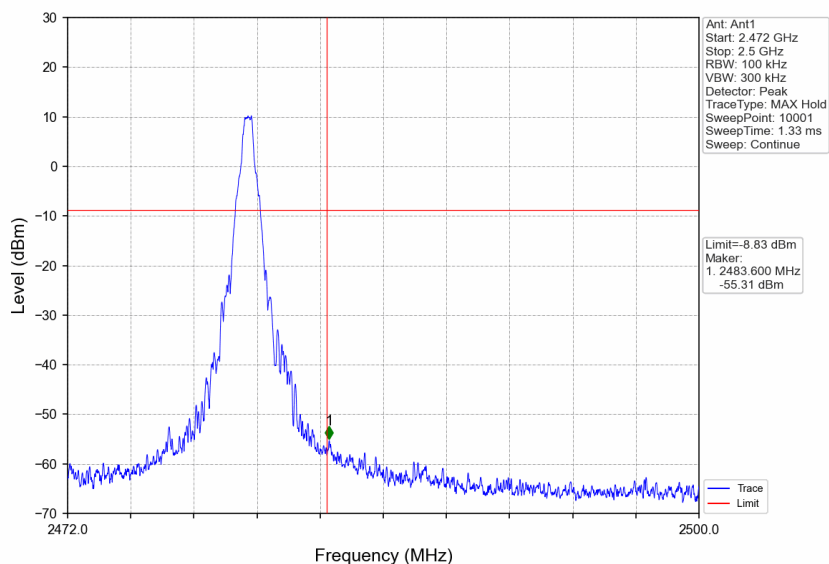
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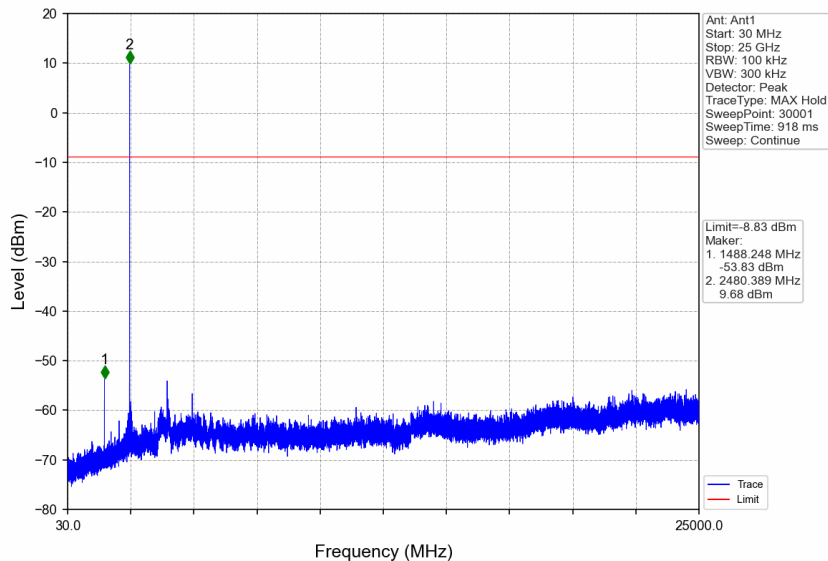
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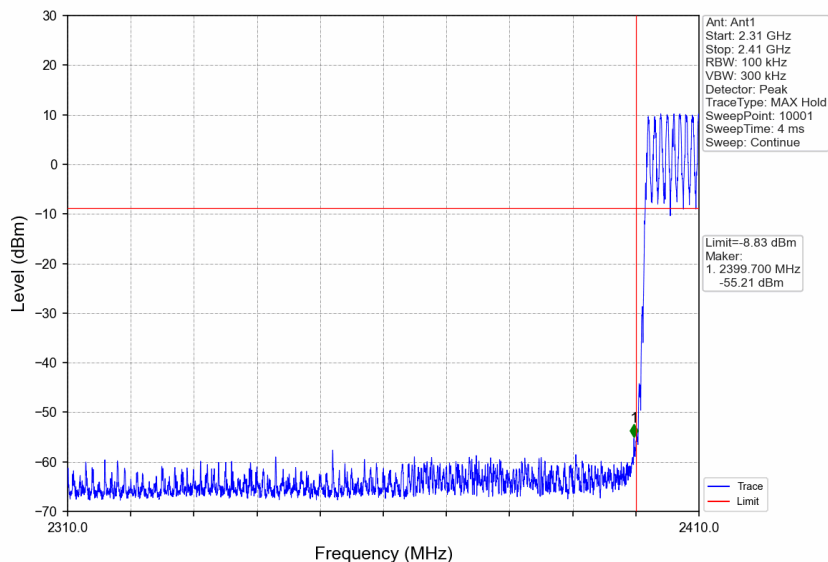
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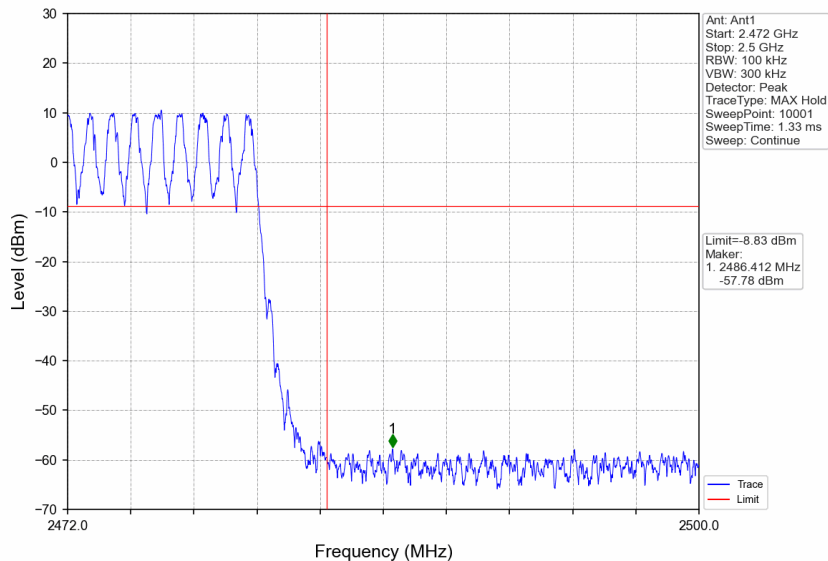
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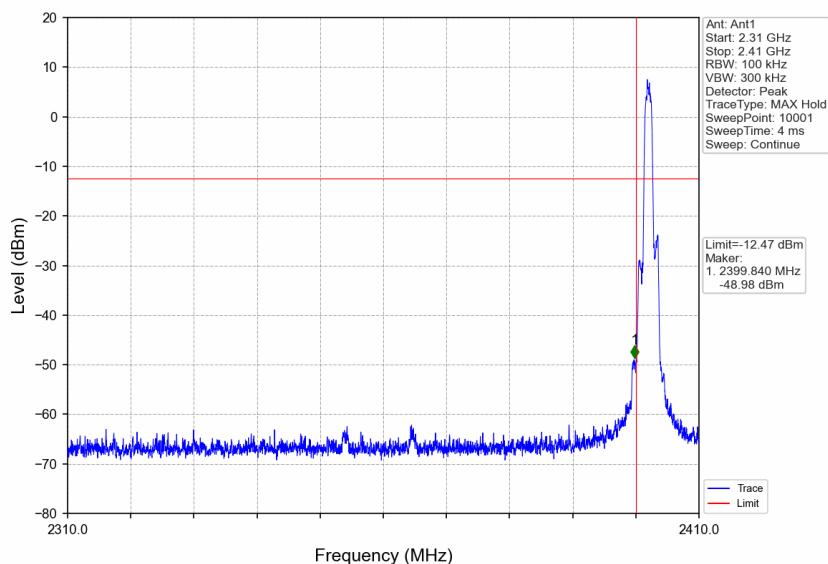
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PI/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



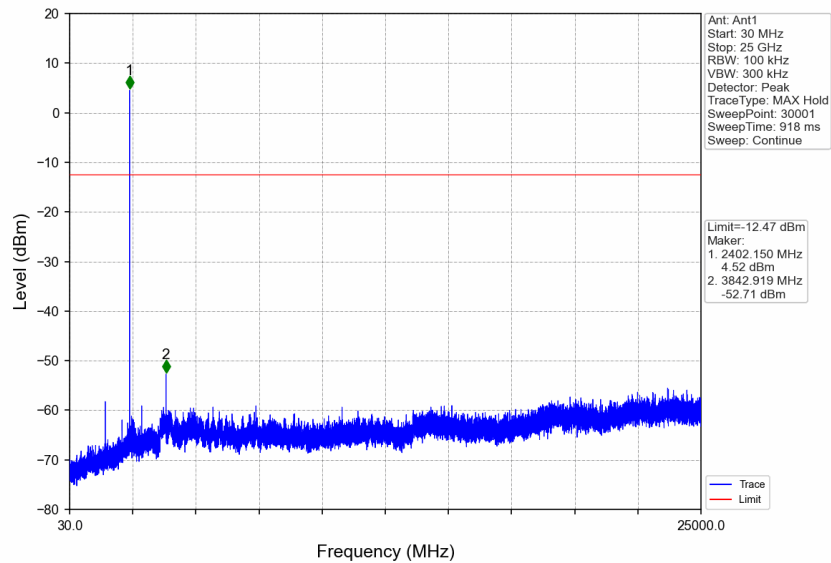
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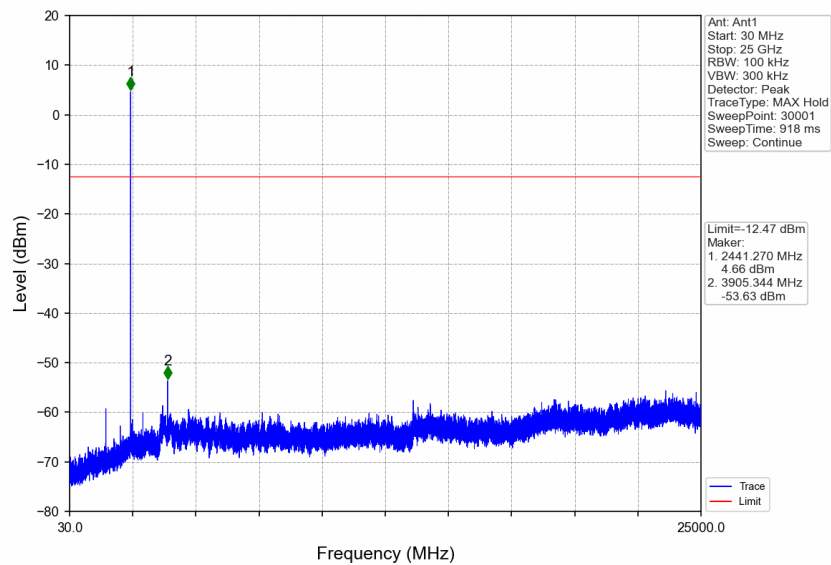
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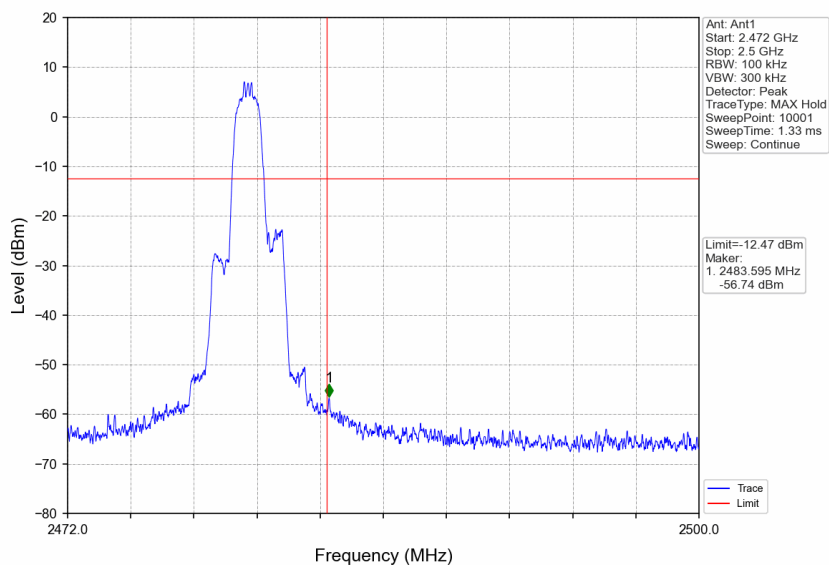
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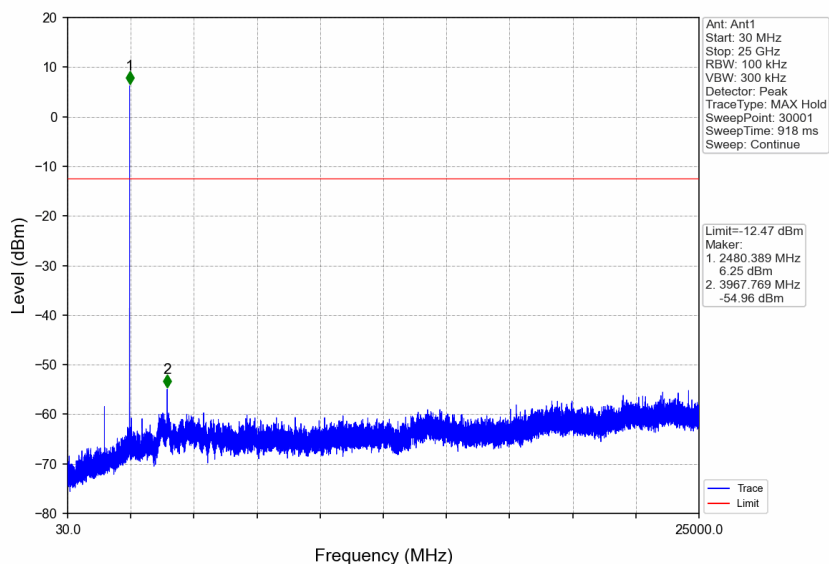
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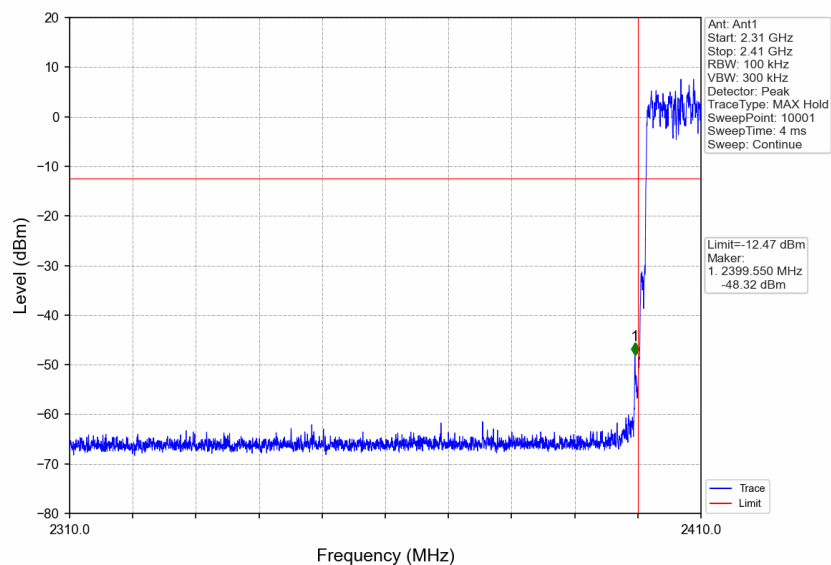
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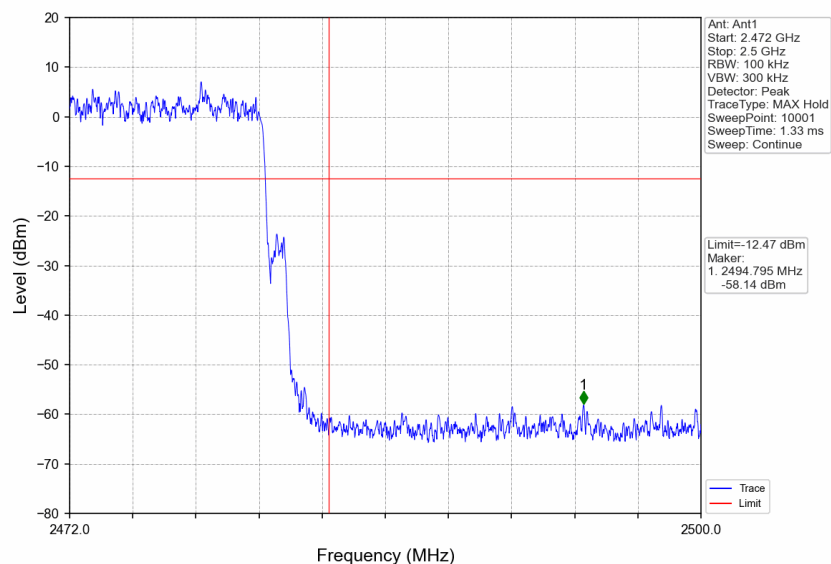
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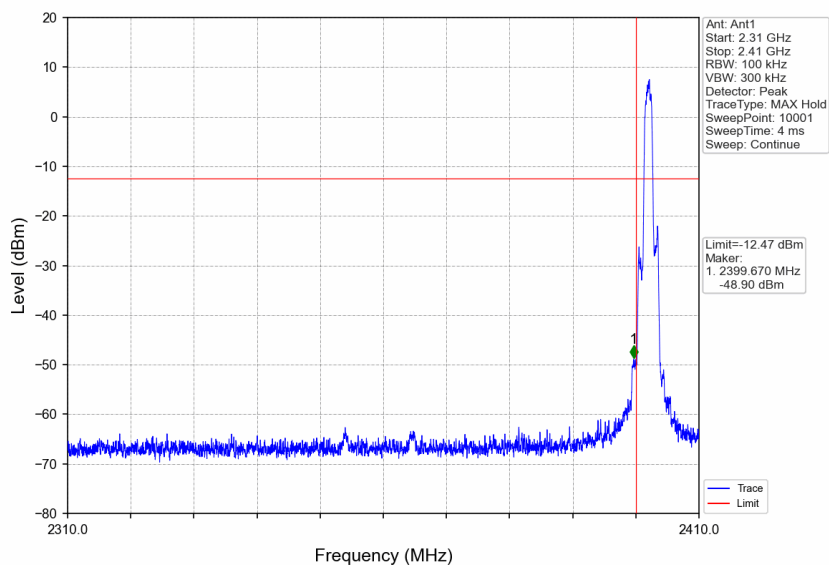
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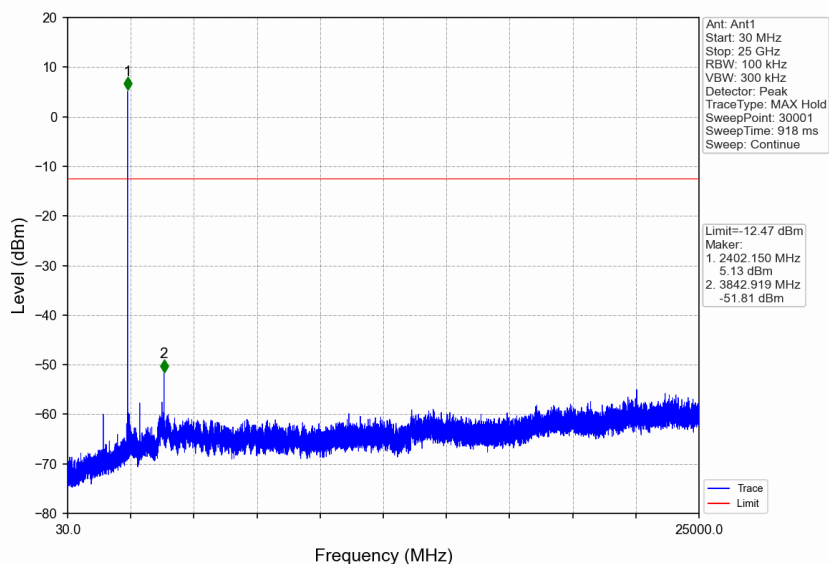
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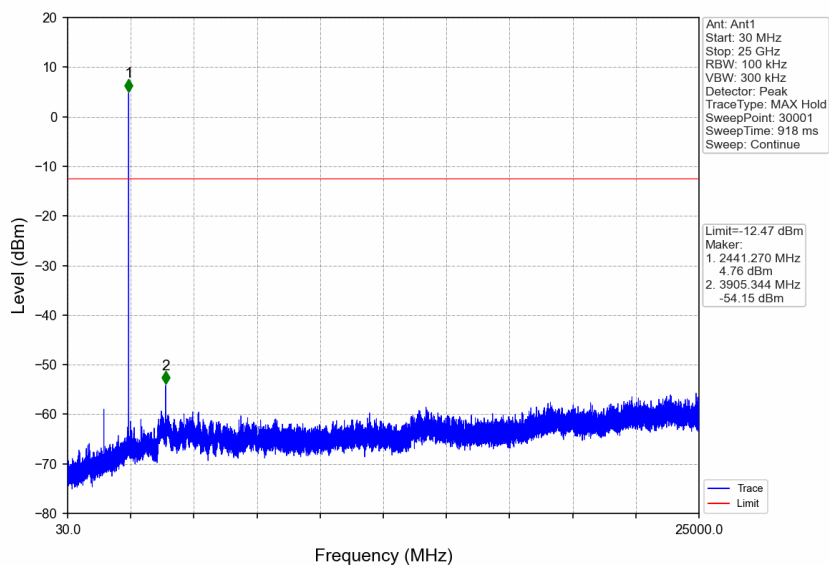
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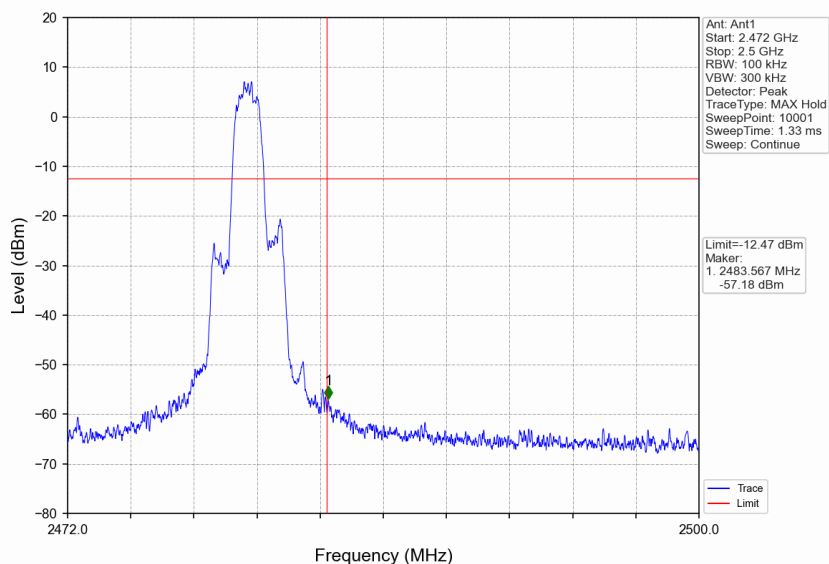
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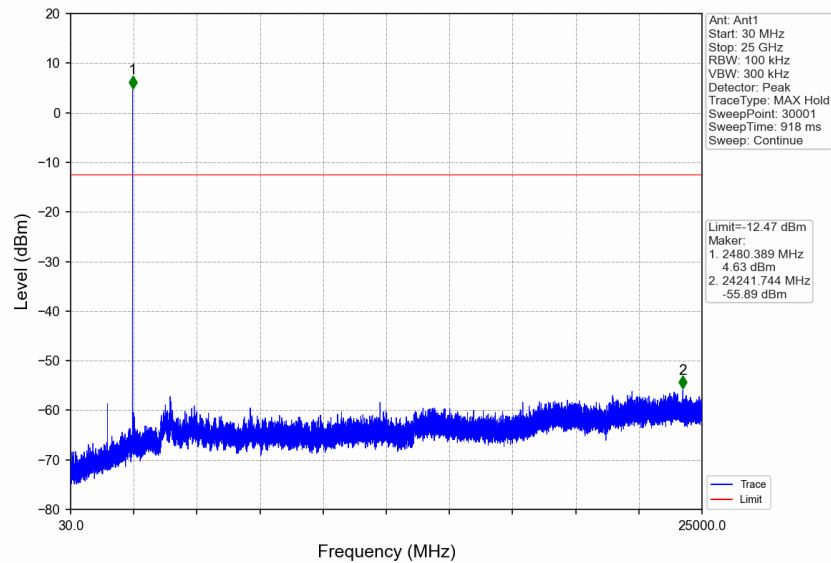
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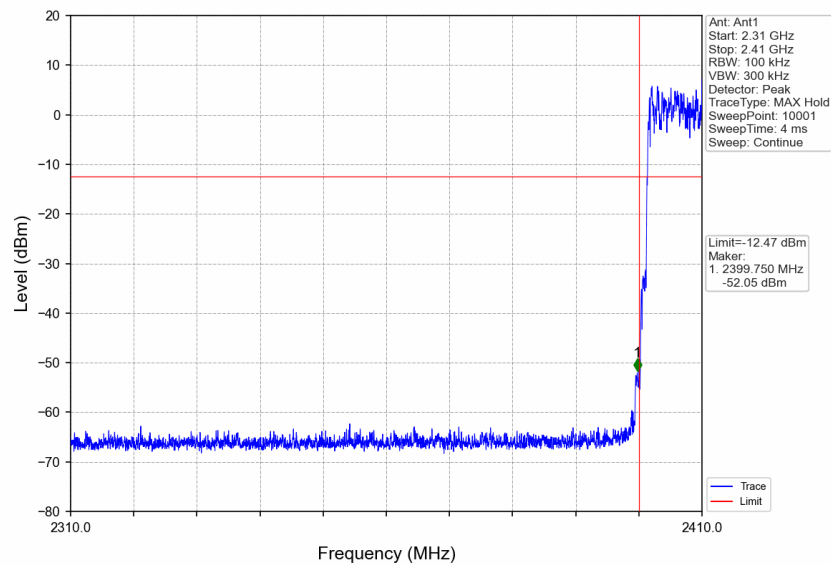
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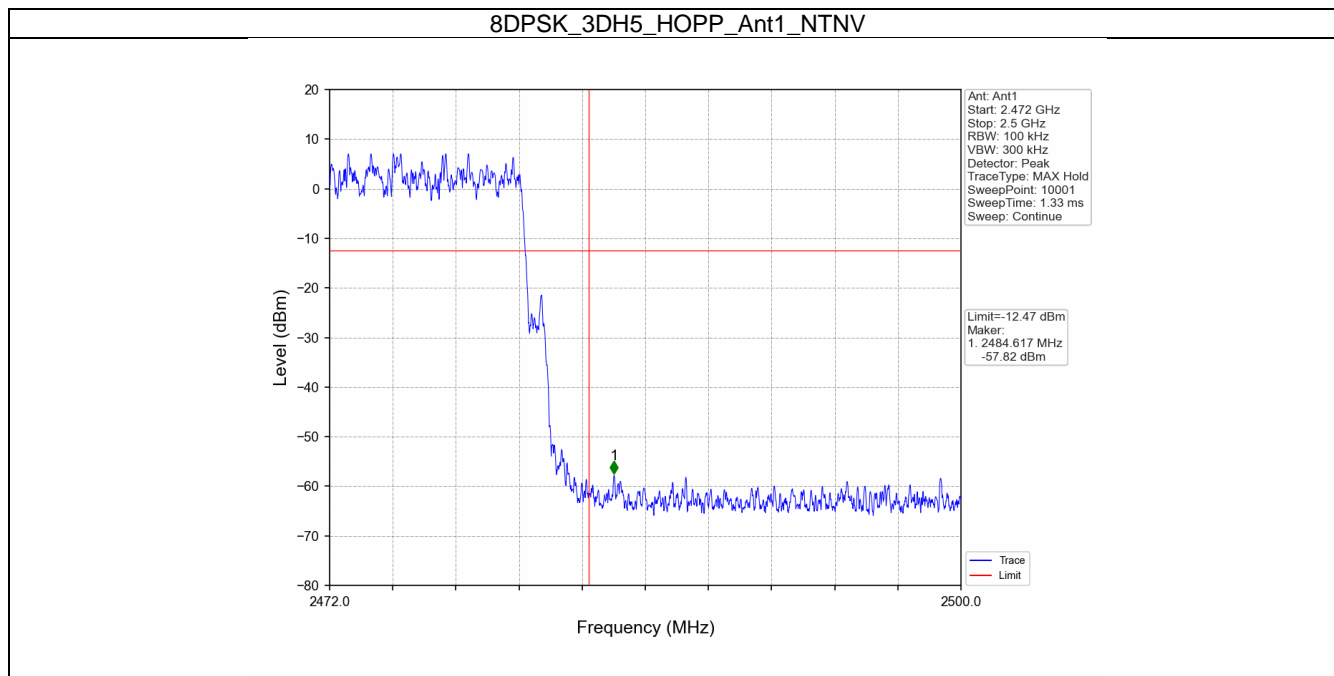
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