

Appendix A for KSCR211100023501 -Left

1. Bandwidth

1.1 OBW

1.1.1 Test Result

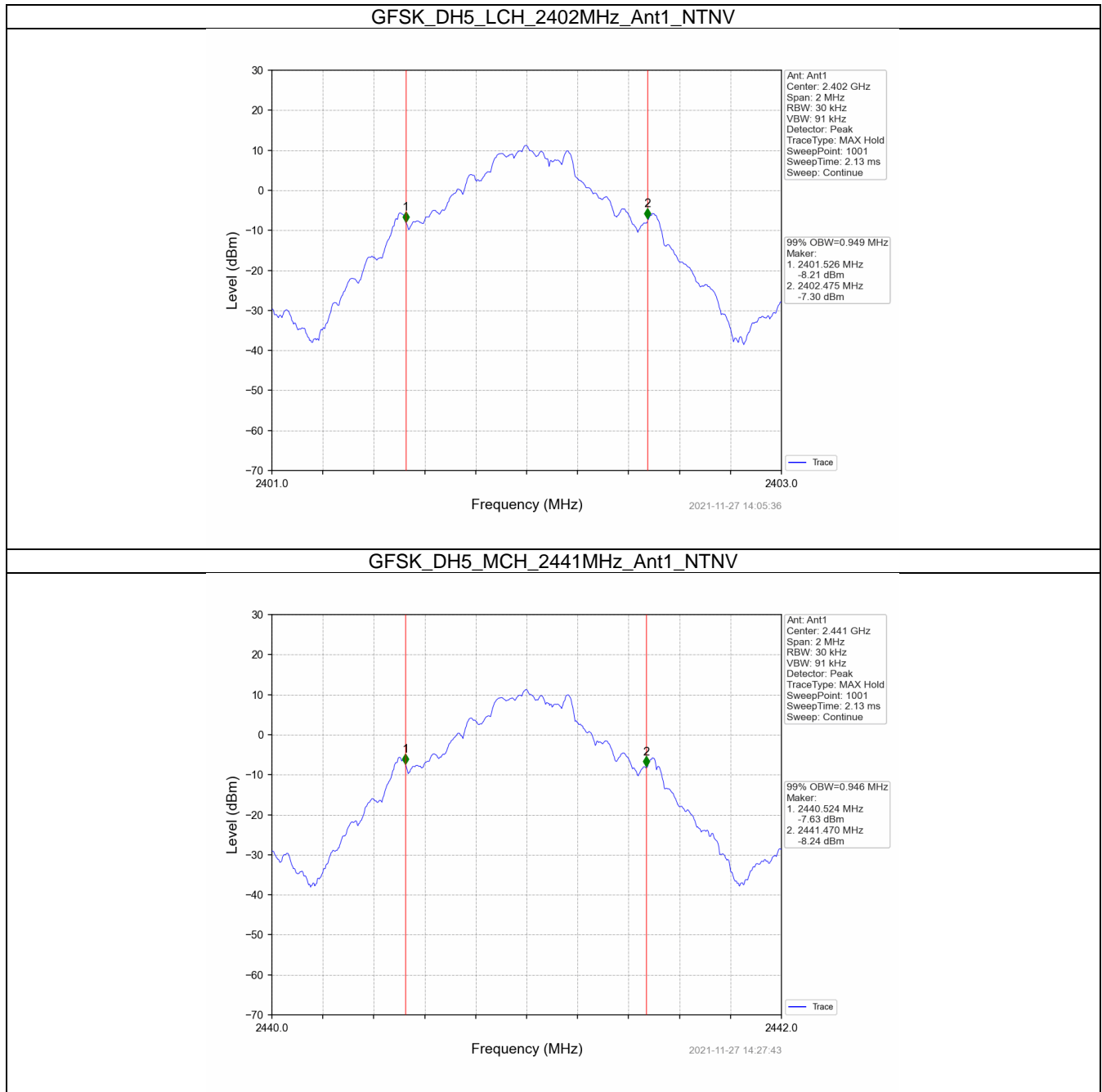
Mode	TX Type	Frequency (MHz)	Packet Type	Ant	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.949	Pass
		2441	DH5	1	0.946	Pass
		2480	DH5	1	0.942	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.131	Pass
		2441	2DH5	1	1.133	Pass
		2480	2DH5	1	1.129	Pass
8DPSK	SISO	2402	3DH5	1	1.139	Pass
		2441	3DH5	1	1.142	Pass
		2480	3DH5	1	1.138	Pass



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1.1.2 Test Graph

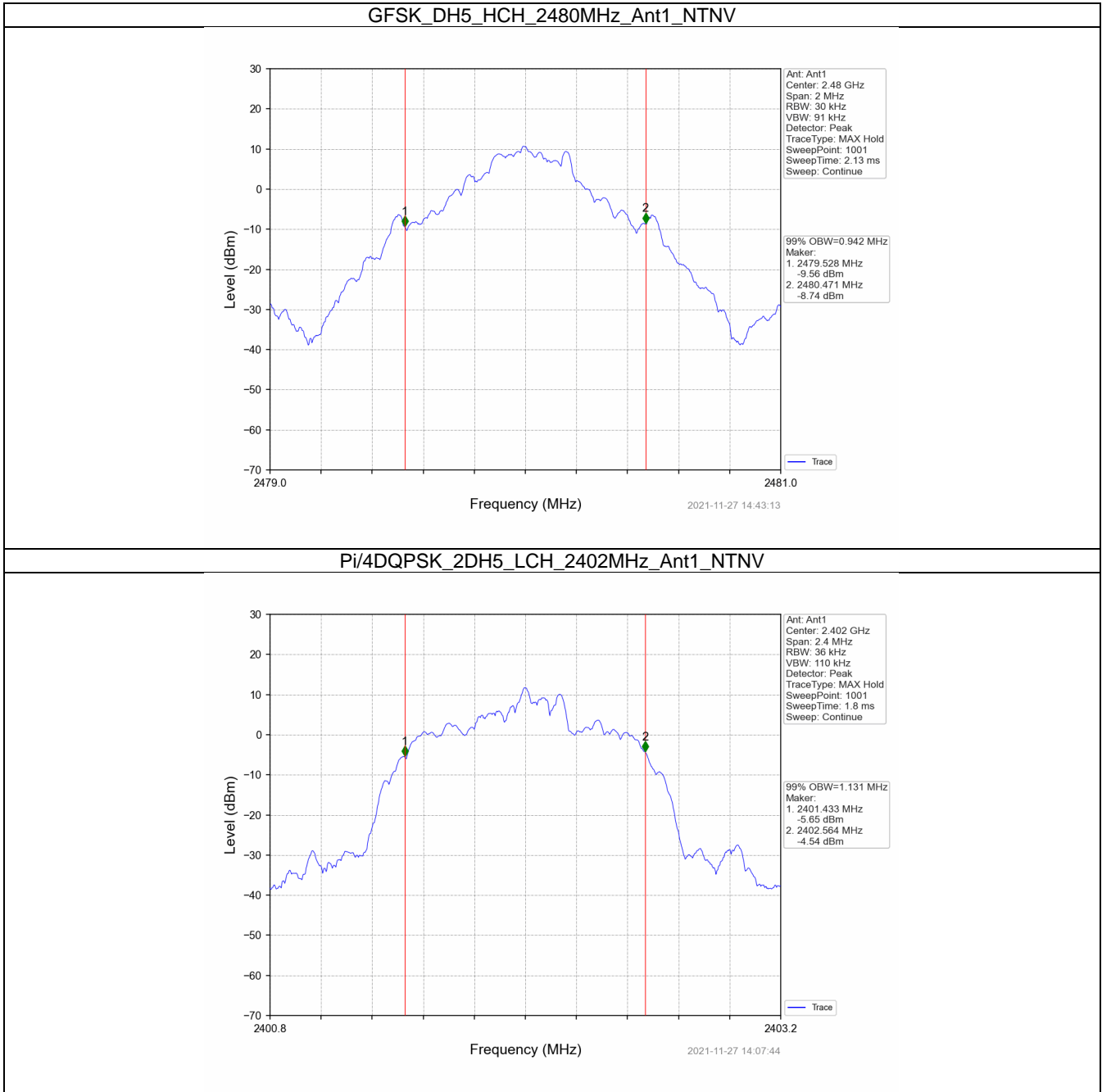


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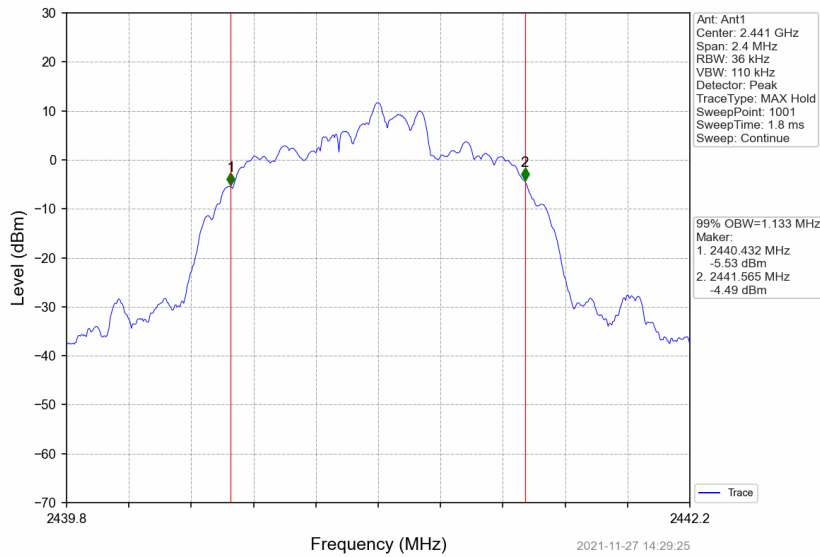
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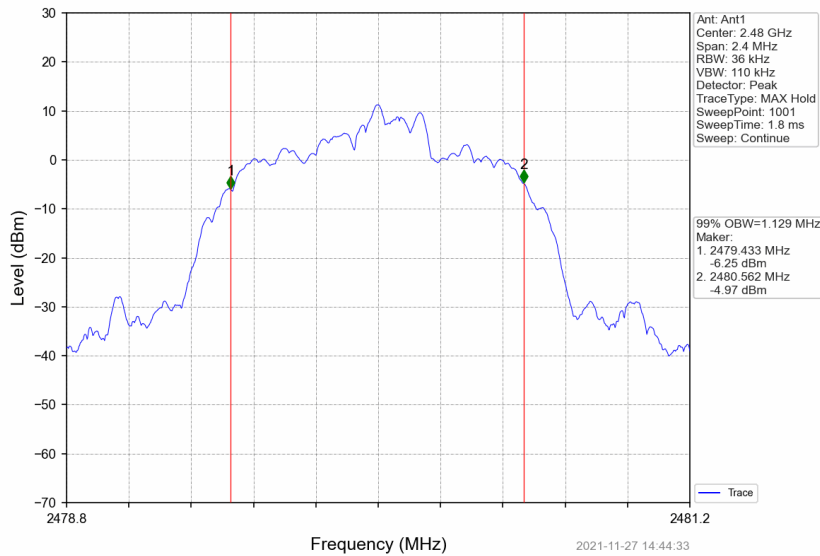
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

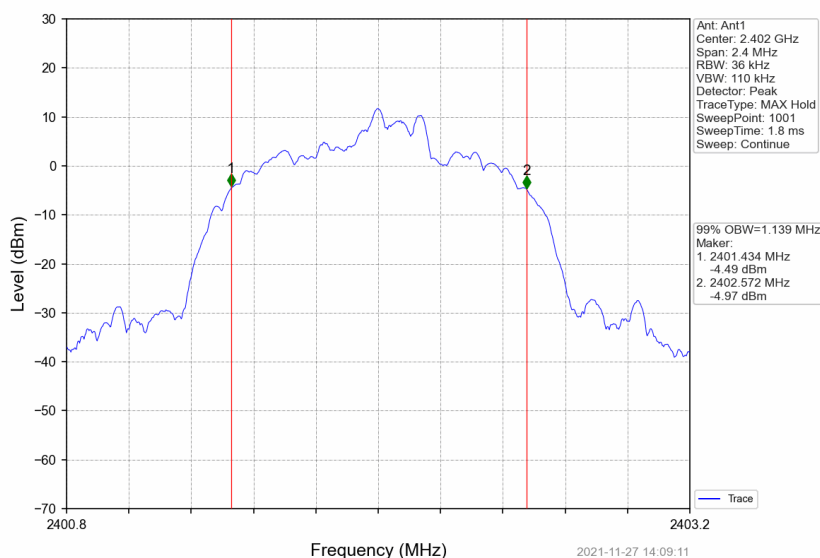


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

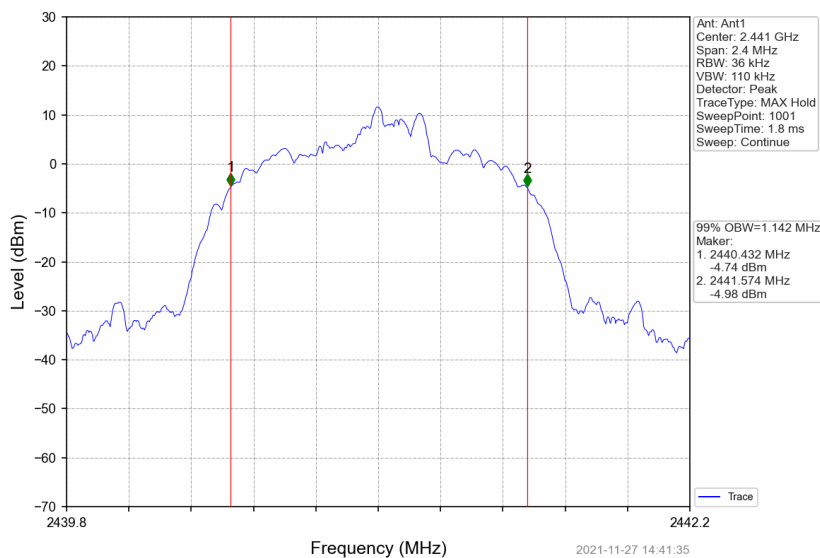


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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

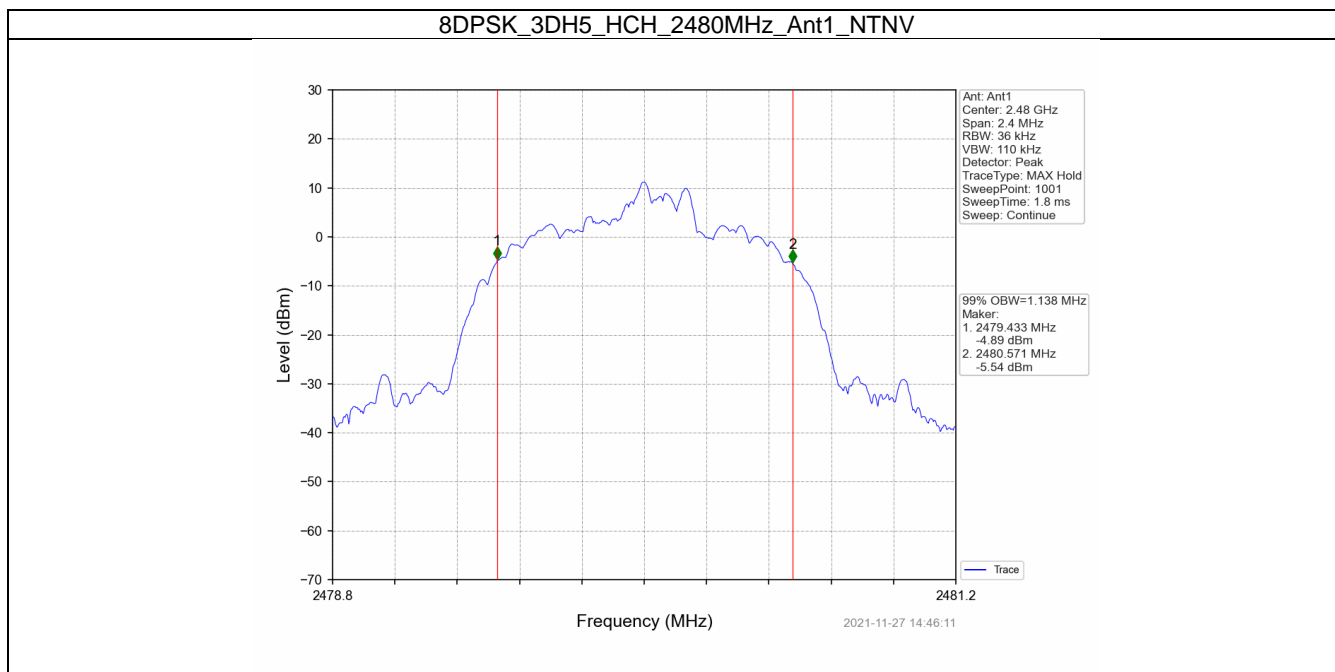


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1.2 20dB BW

1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	1.048	Pass
		2441	DH5	1	1.047	Pass
		2480	DH5	1	1.042	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.205	Pass
		2441	2DH5	1	1.208	Pass
		2480	2DH5	1	1.204	Pass
8DPSK	SISO	2402	3DH5	1	1.246	Pass
		2441	3DH5	1	1.252	Pass
		2480	3DH5	1	1.246	Pass



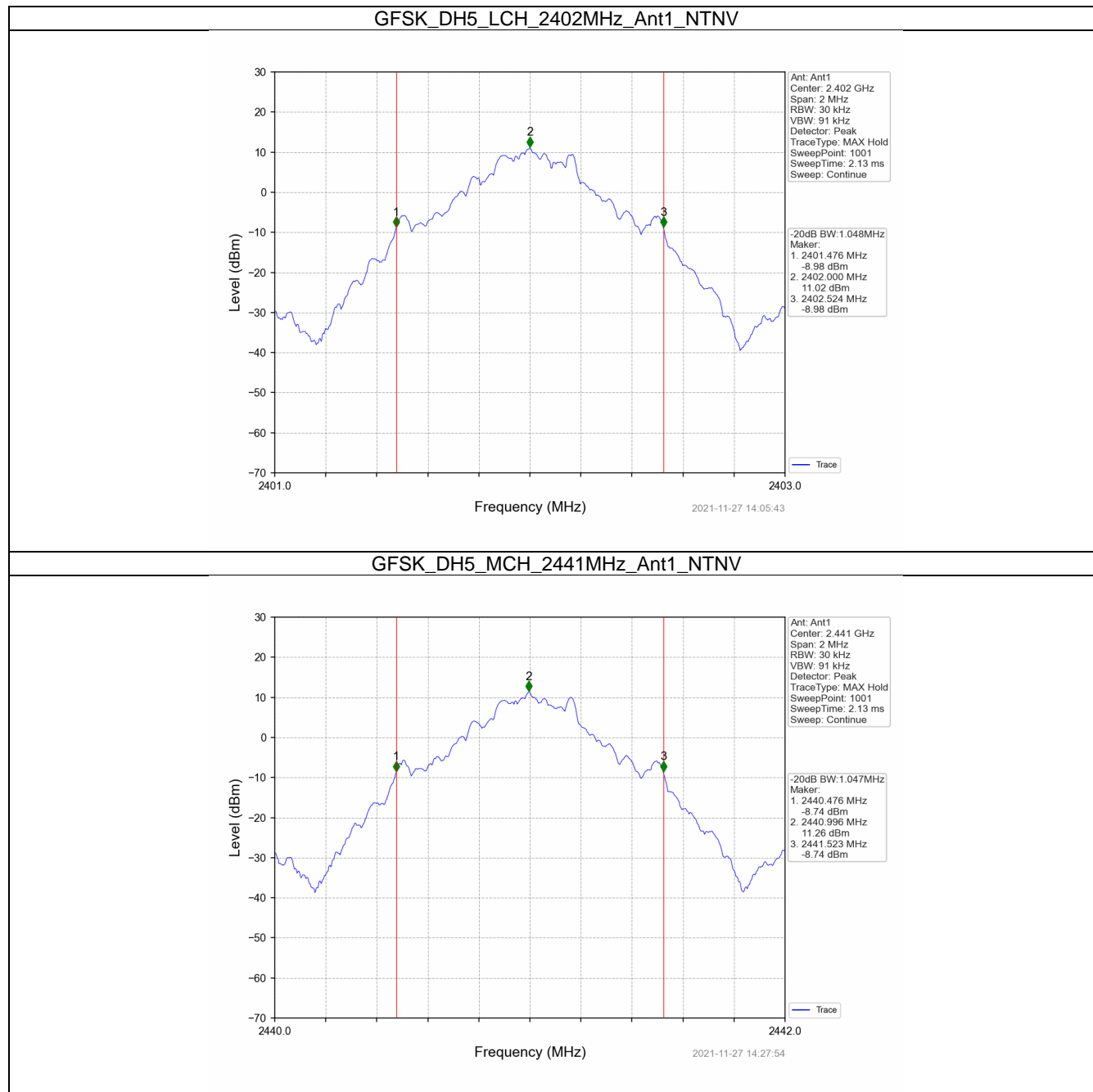
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1.2.2 Test Graph

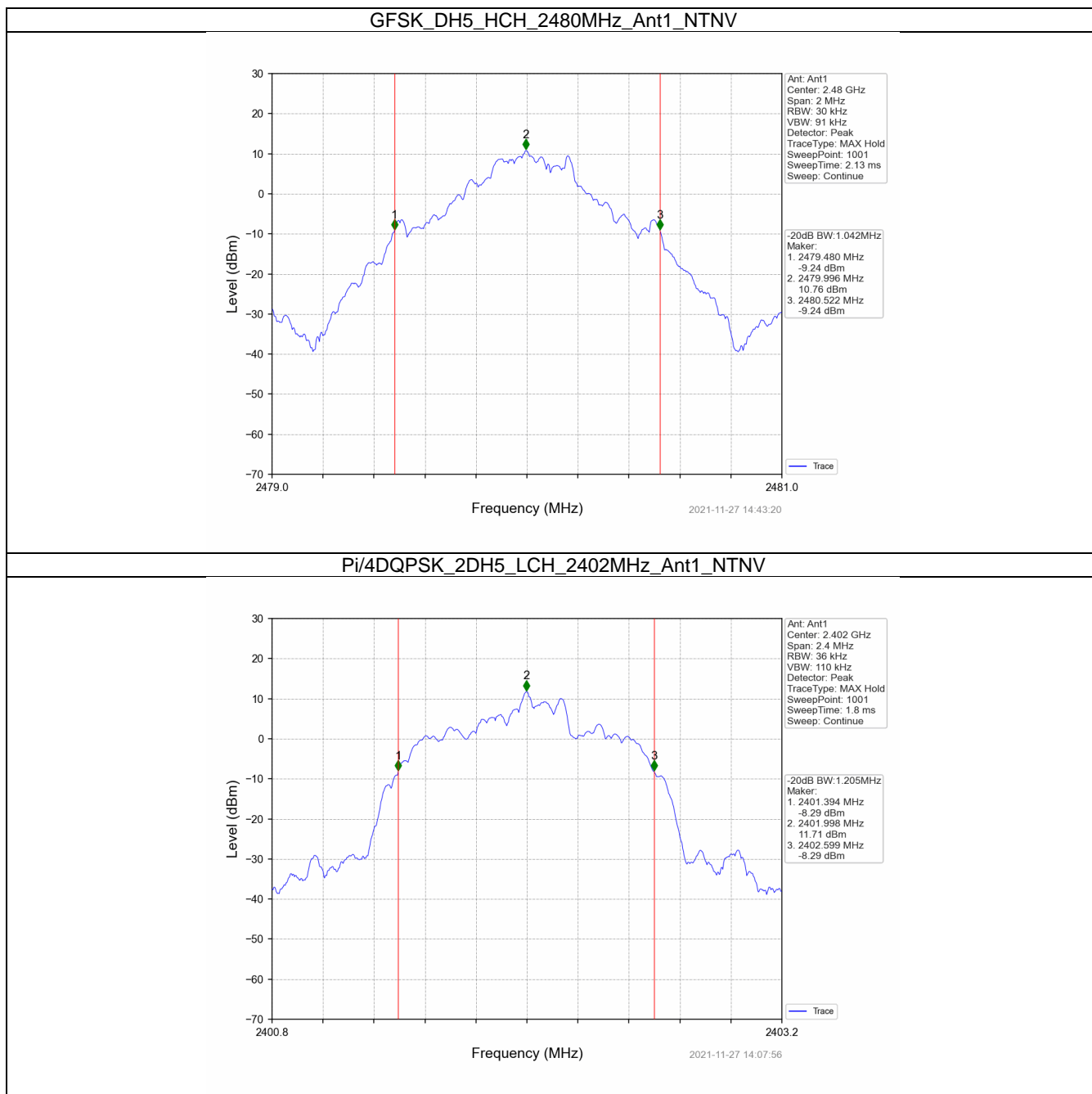


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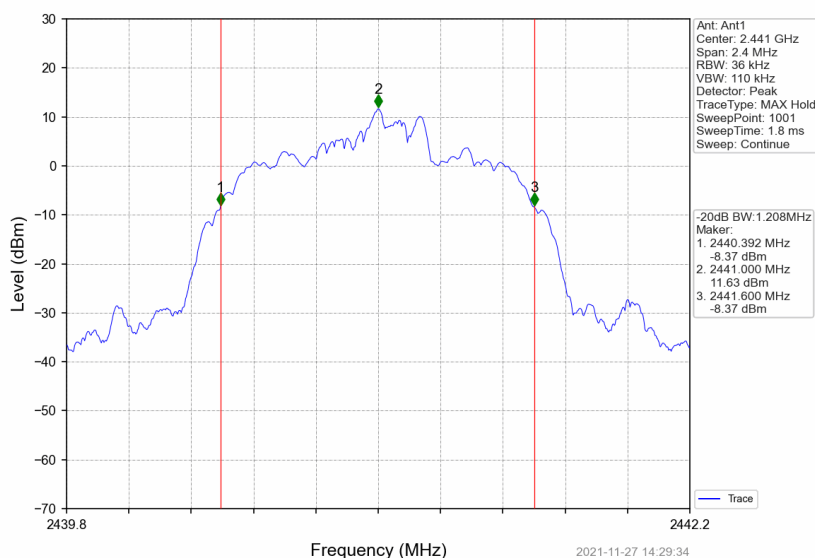
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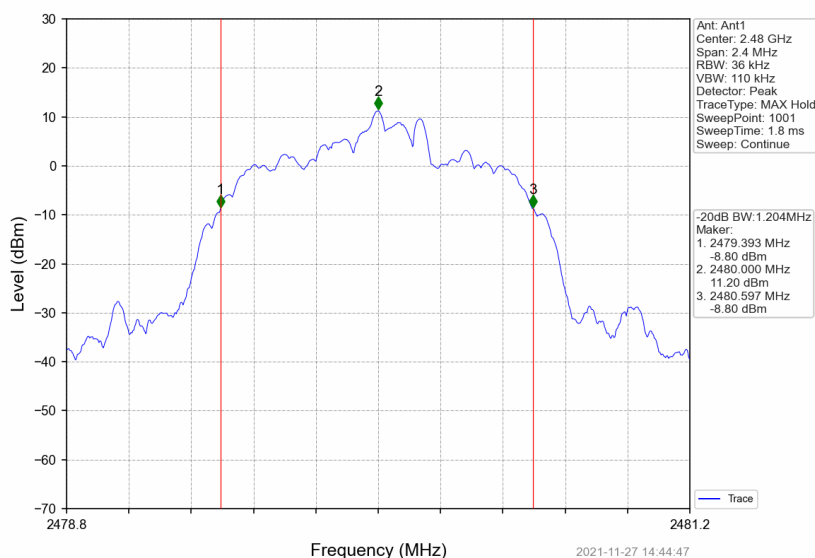
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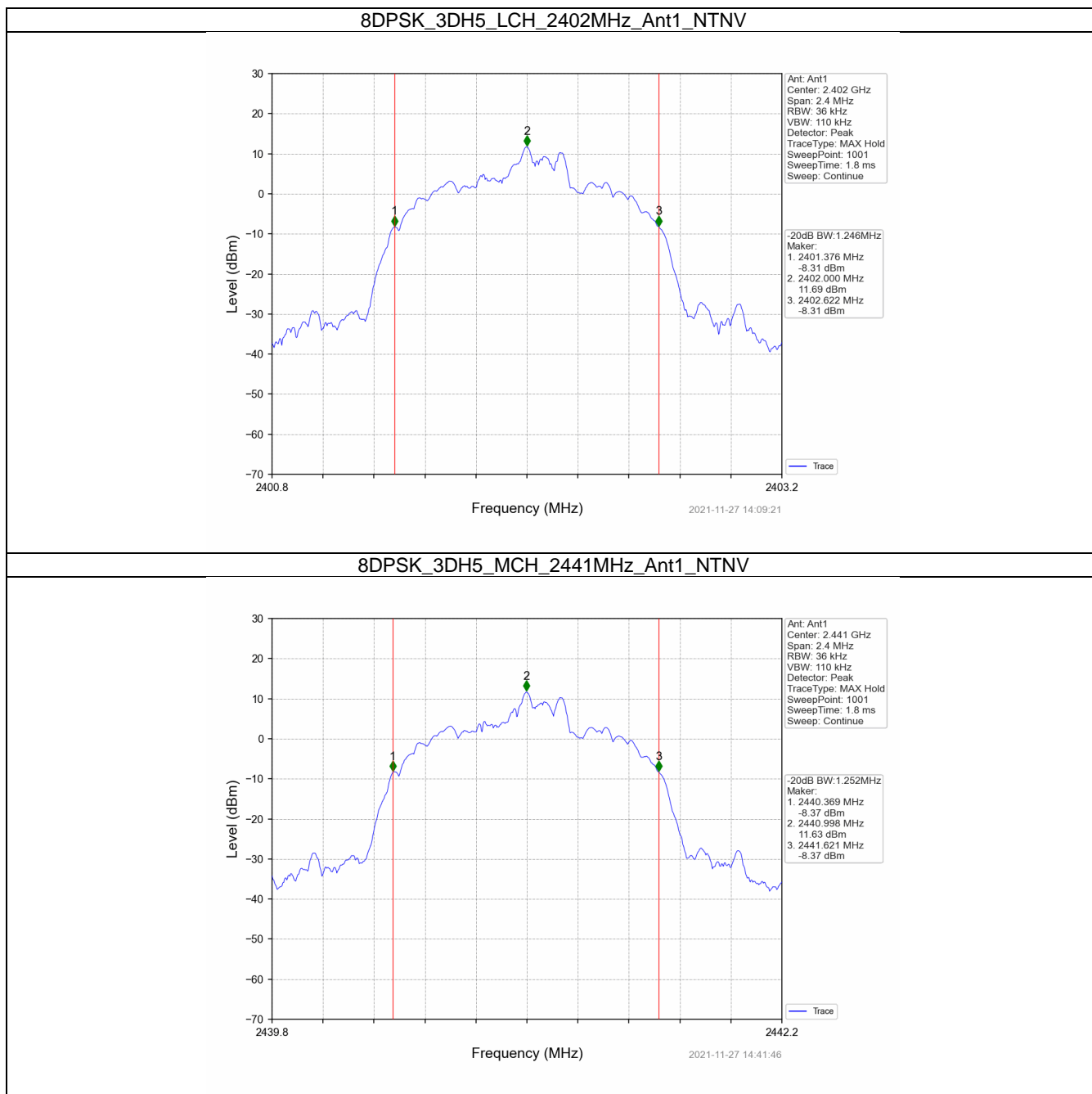
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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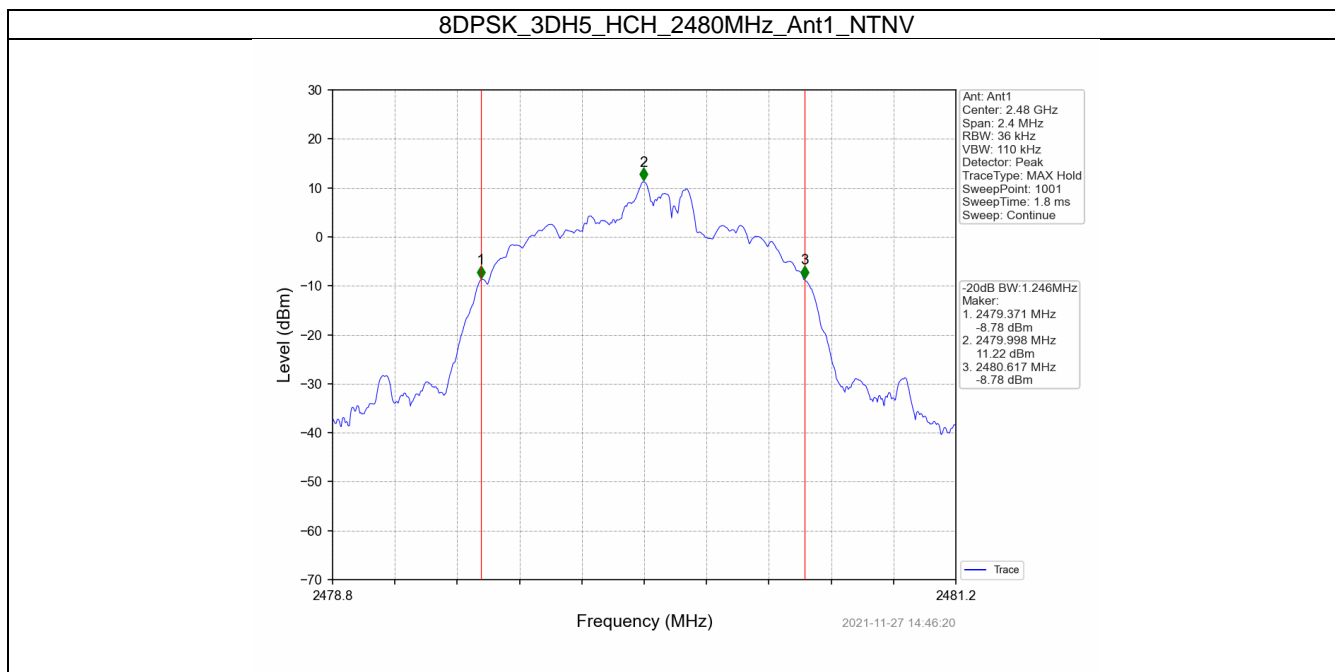


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2. Maximum Conducted Output Power

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	12.57	<=20.97	Pass
		2441	DH5	12.56	<=20.97	Pass
		2480	DH5	12.10	<=20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	12.63	<=20.97	Pass
		2441	2DH5	12.67	<=20.97	Pass
		2480	2DH5	12.13	<=20.97	Pass
8DPSK	SISO	2402	3DH5	12.60	<=20.97	Pass
		2441	3DH5	12.57	<=20.97	Pass
		2480	3DH5	12.14	<=20.97	Pass

Note1: Antenna Gain: Ant1: -1.00dBi;



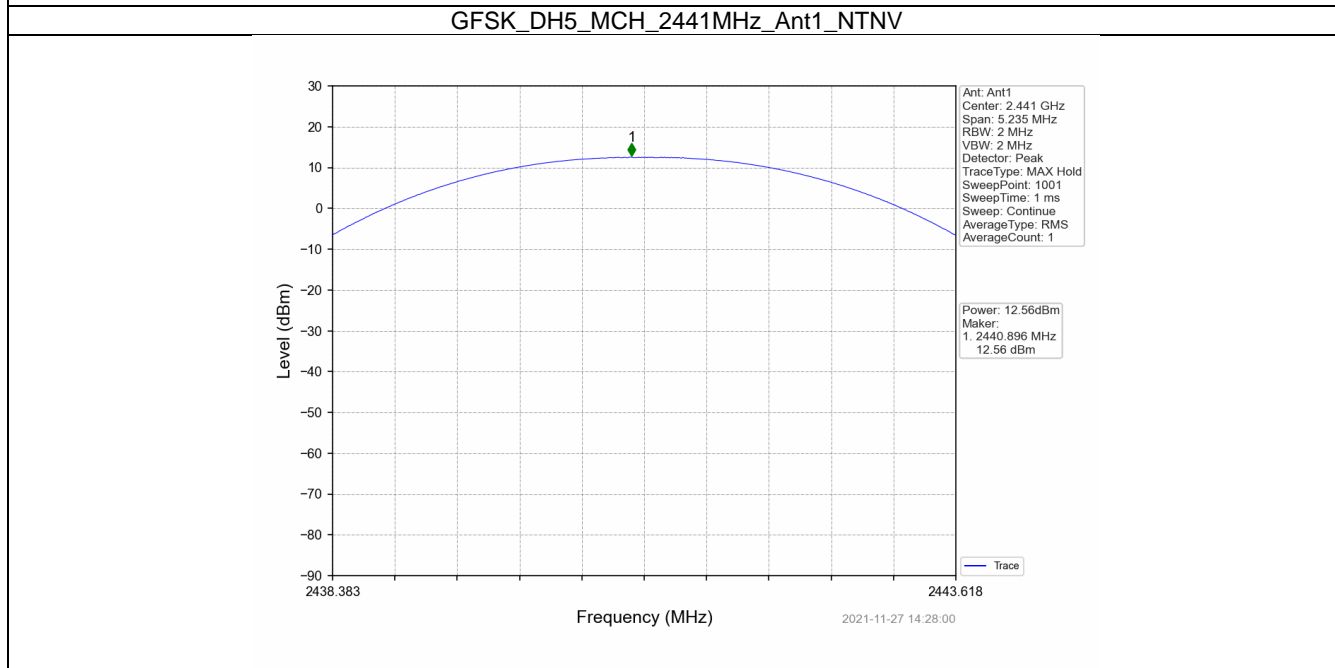
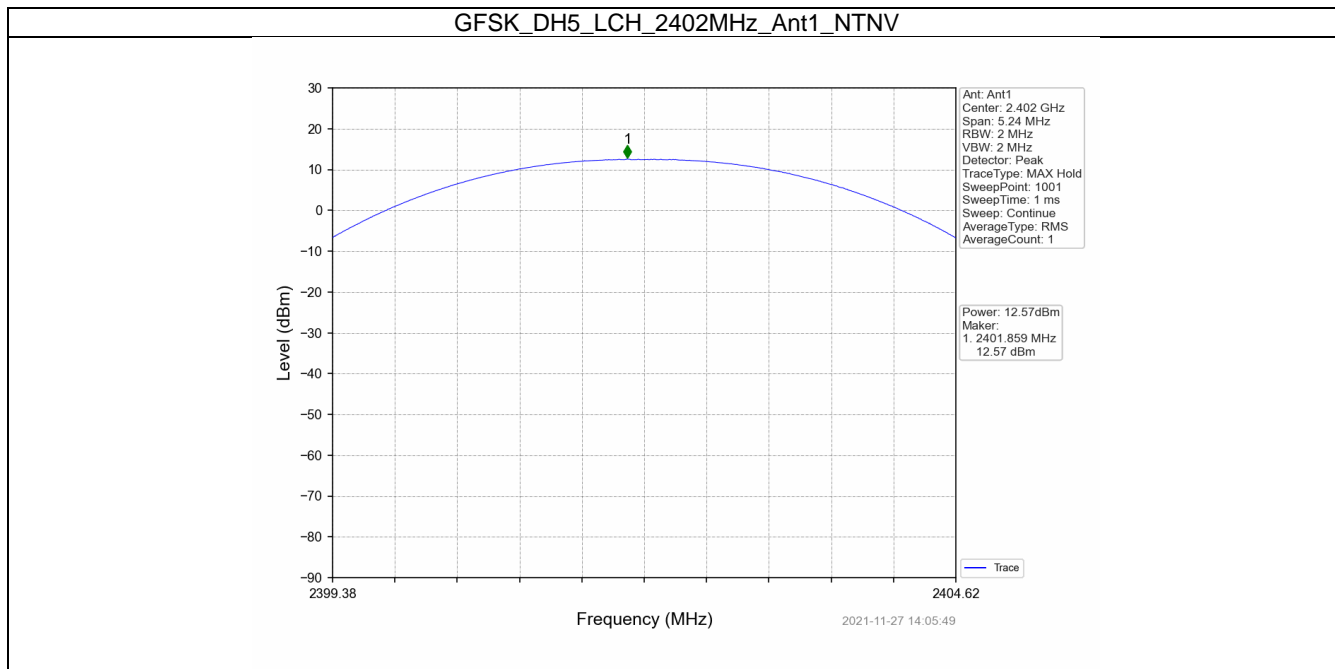
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2.1.2 Test Graph

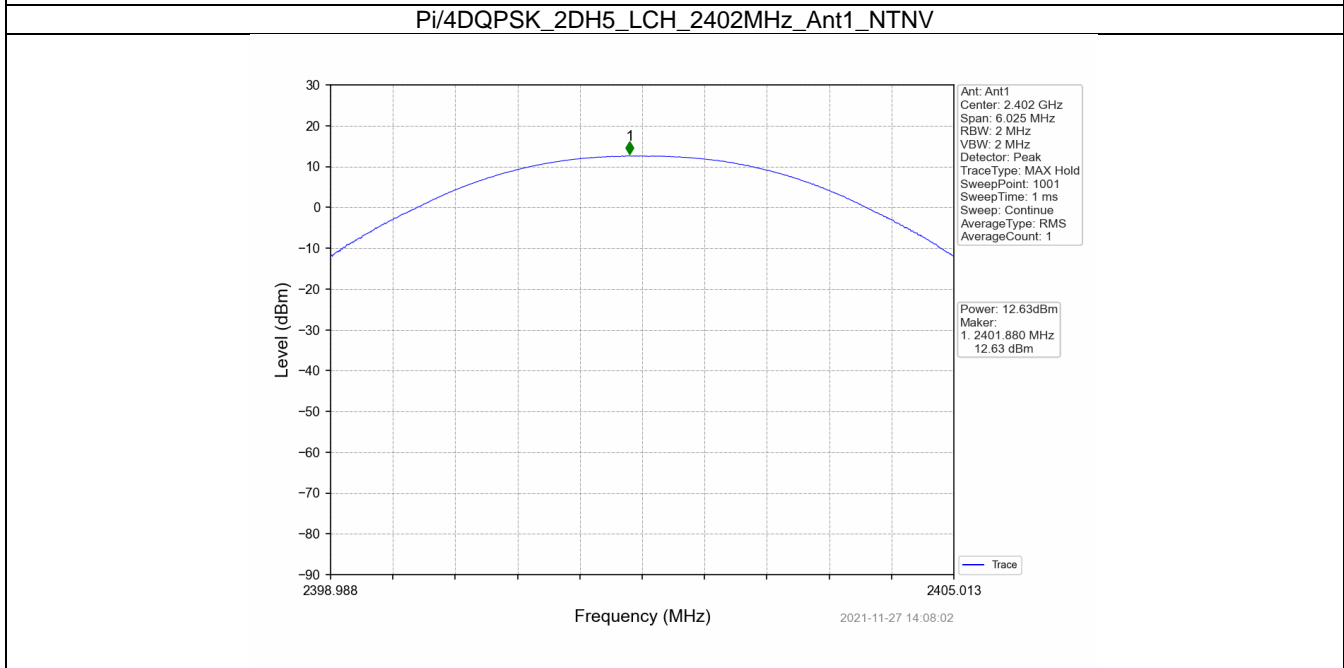
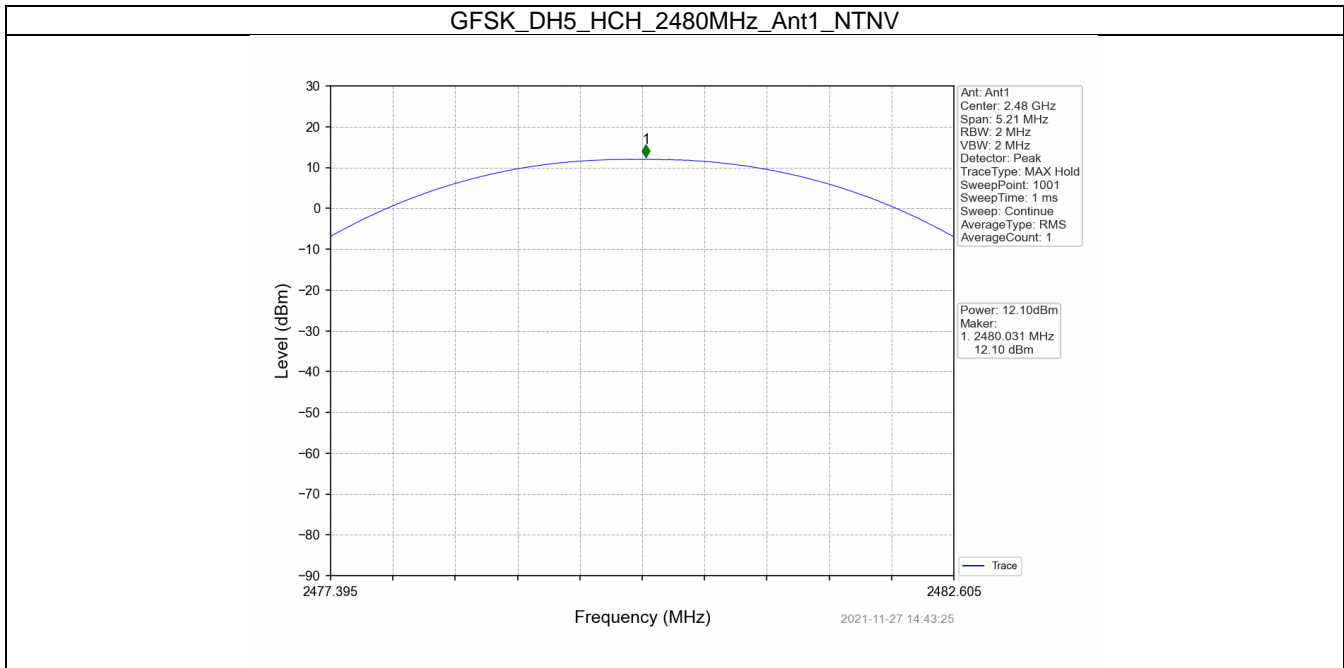


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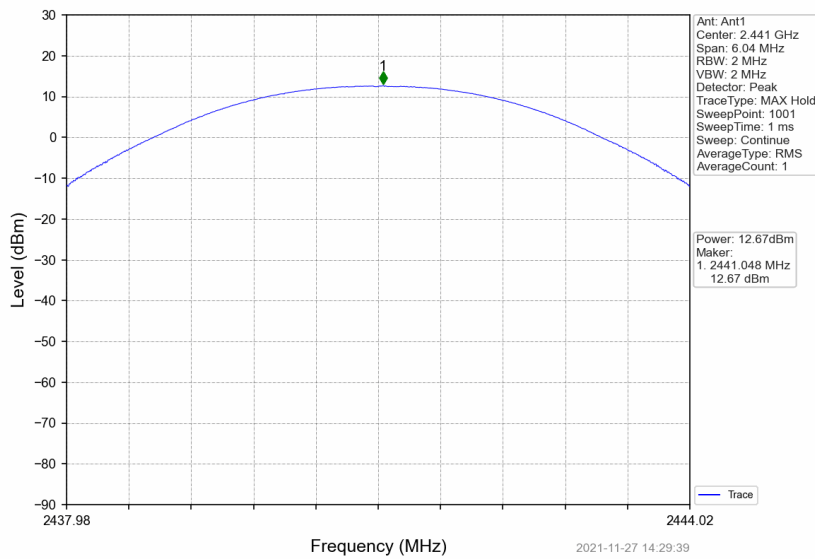
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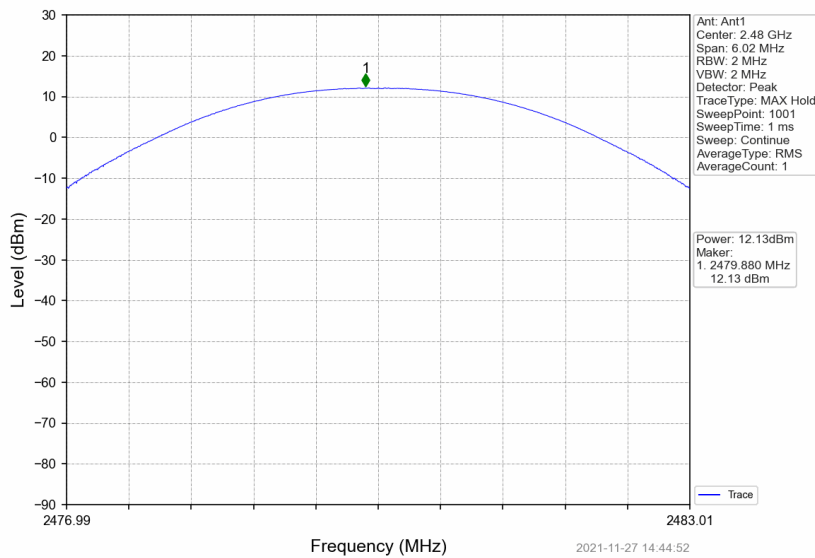
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

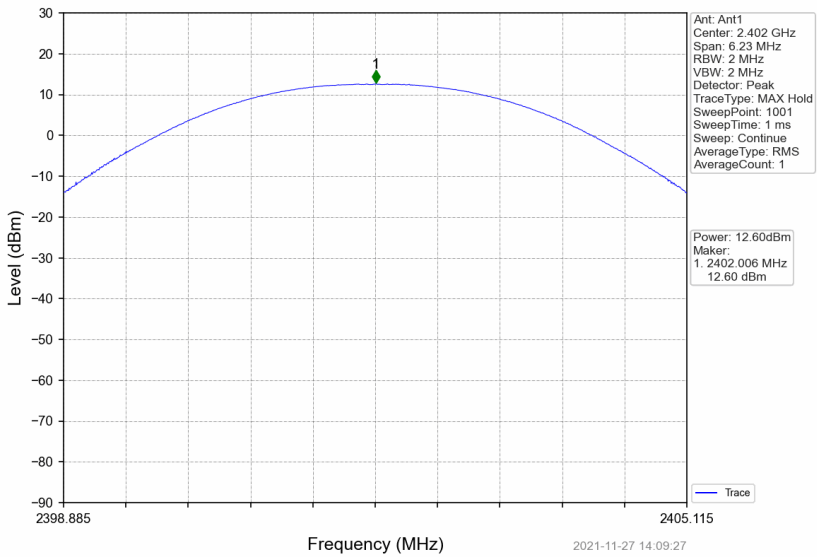


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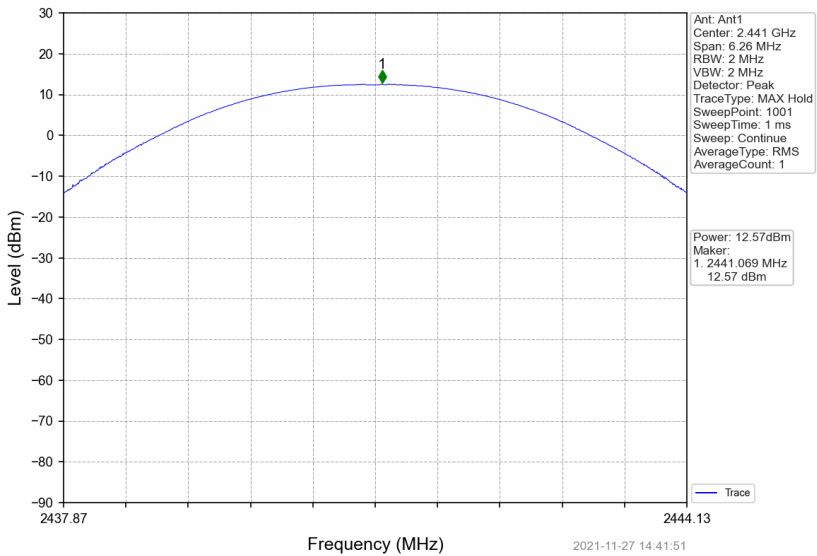


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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV

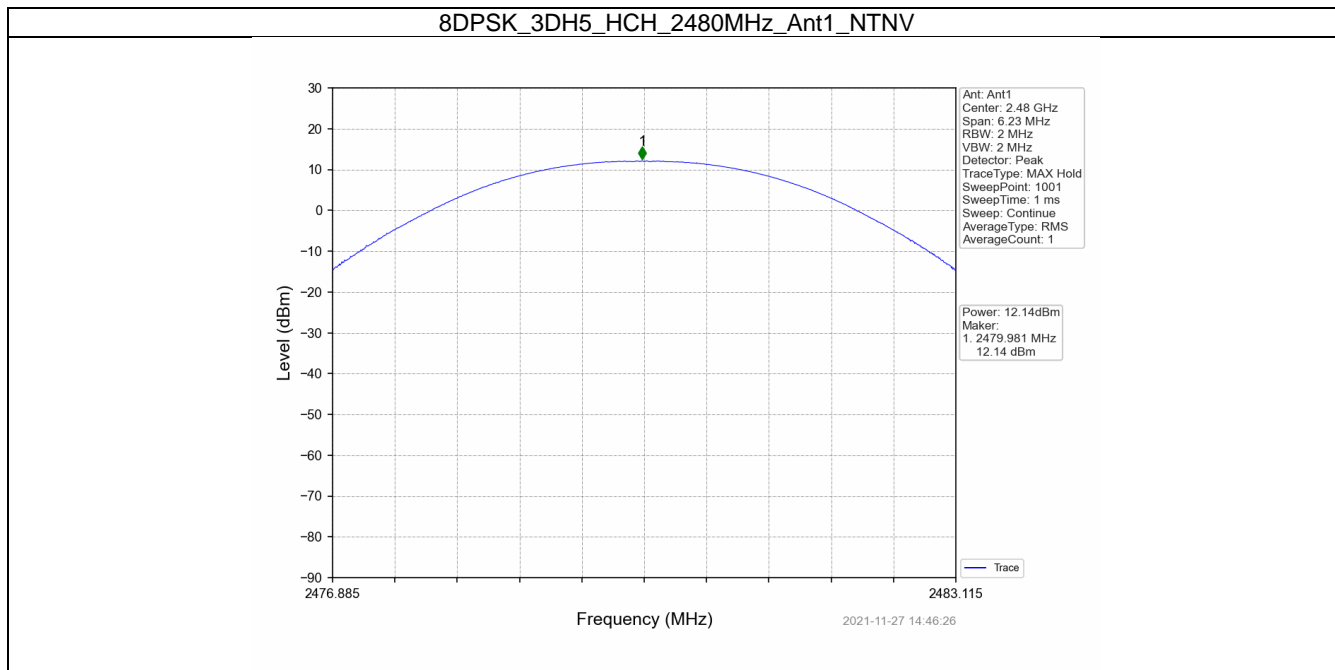


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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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	0.996	1.048	≥ 0.699	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.996	1.208	≥ 0.805	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.252	≥ 0.835	Pass



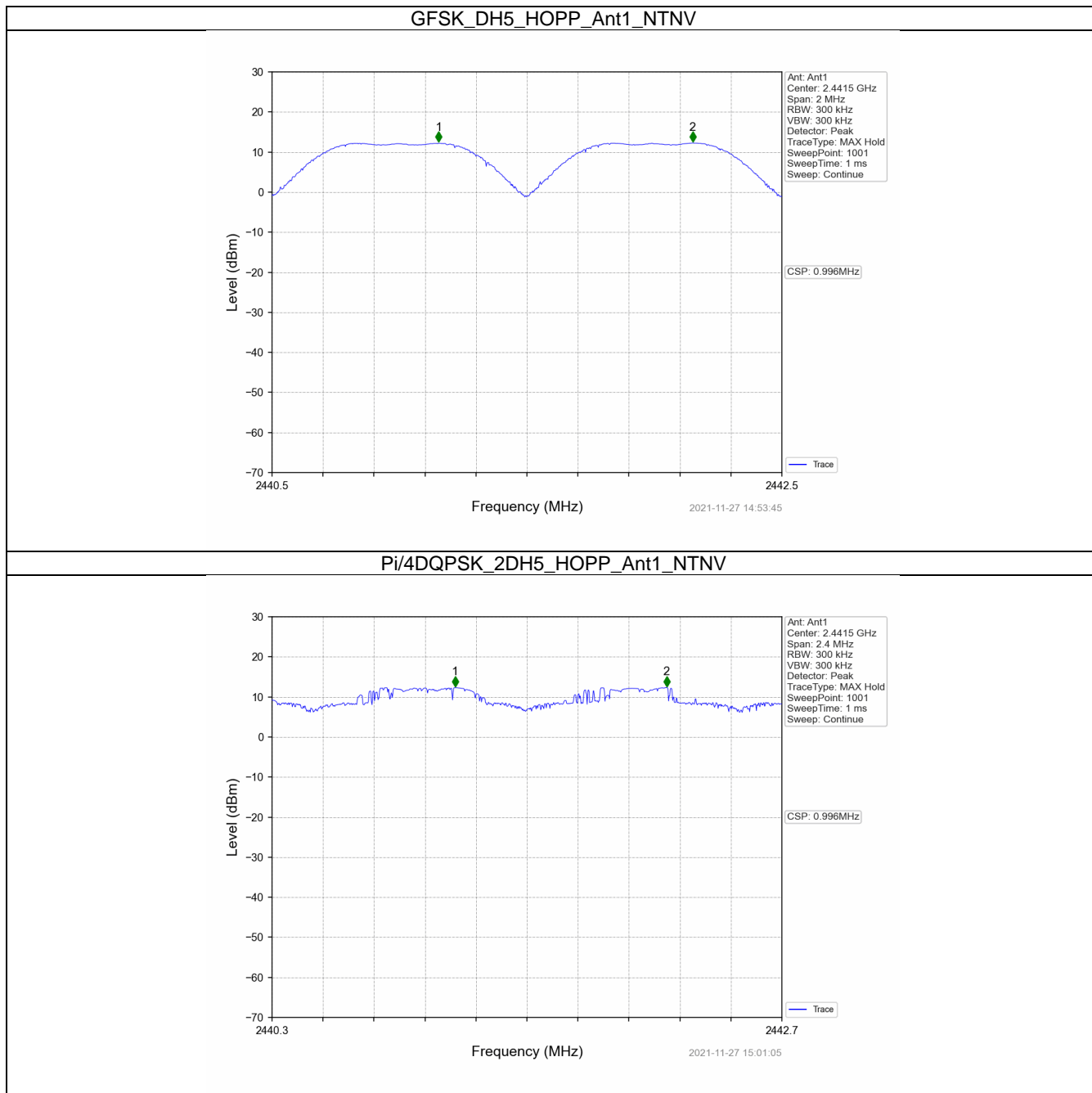
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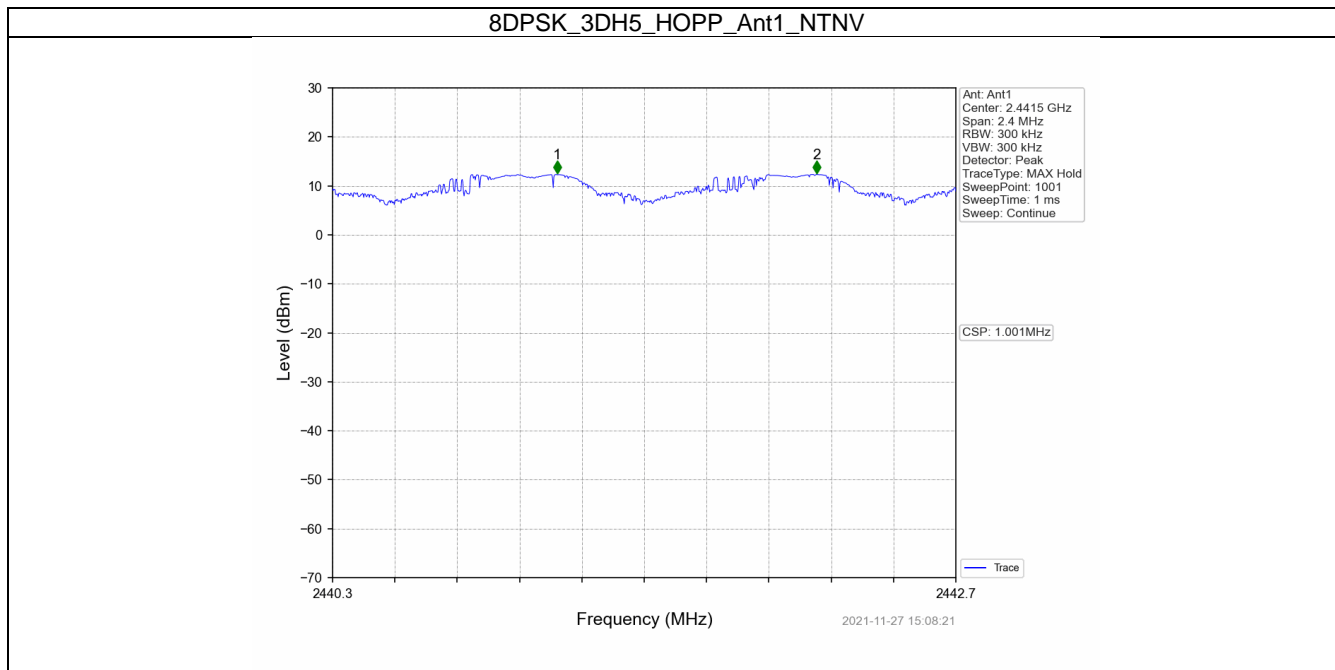
3.1.2 Test Graph



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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

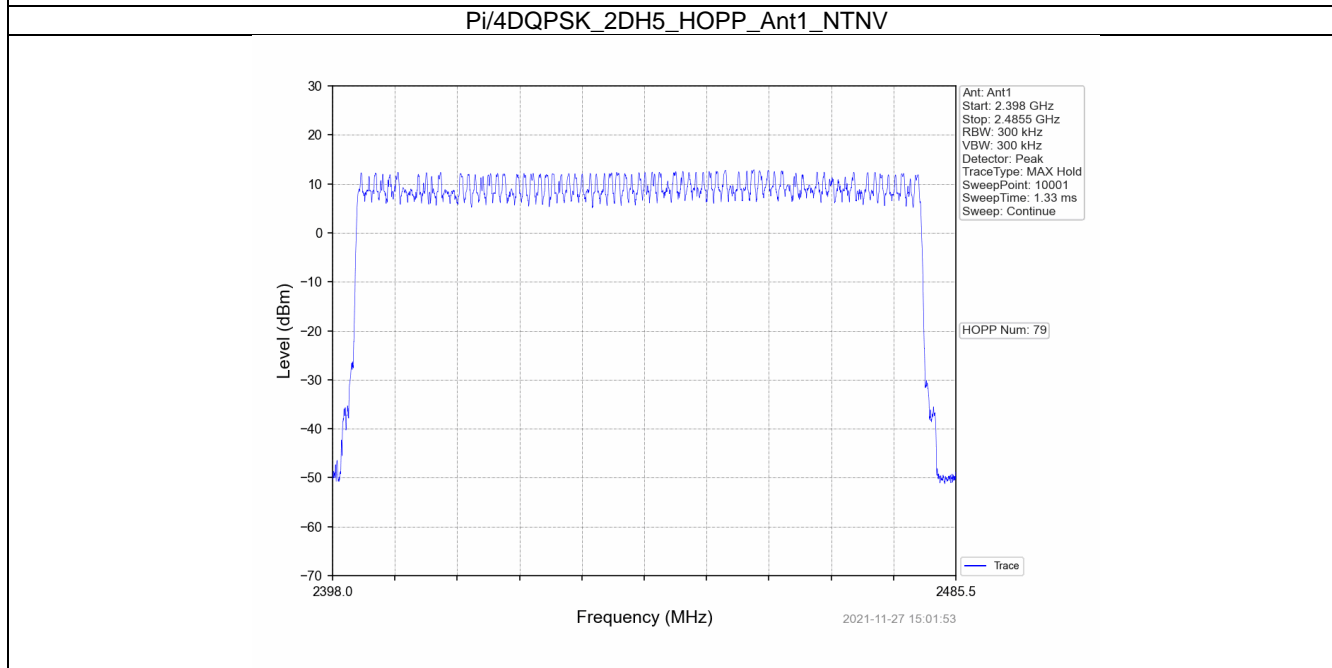
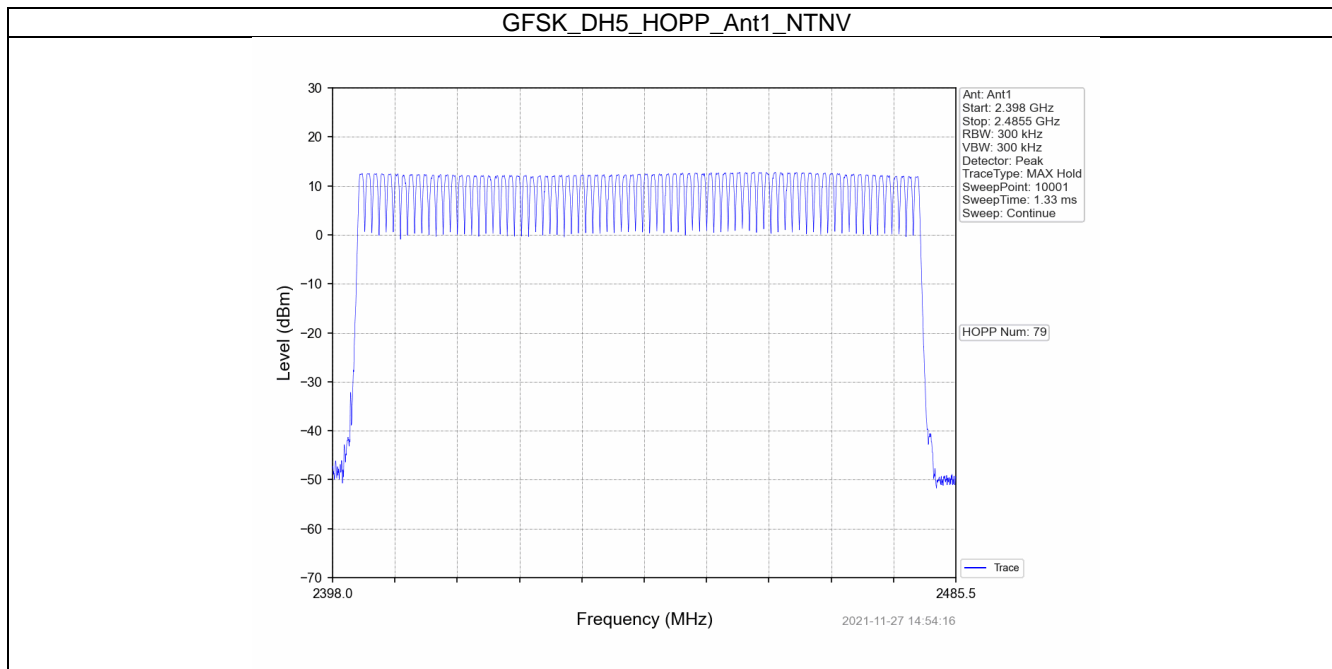


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4.1.2 Test Graph

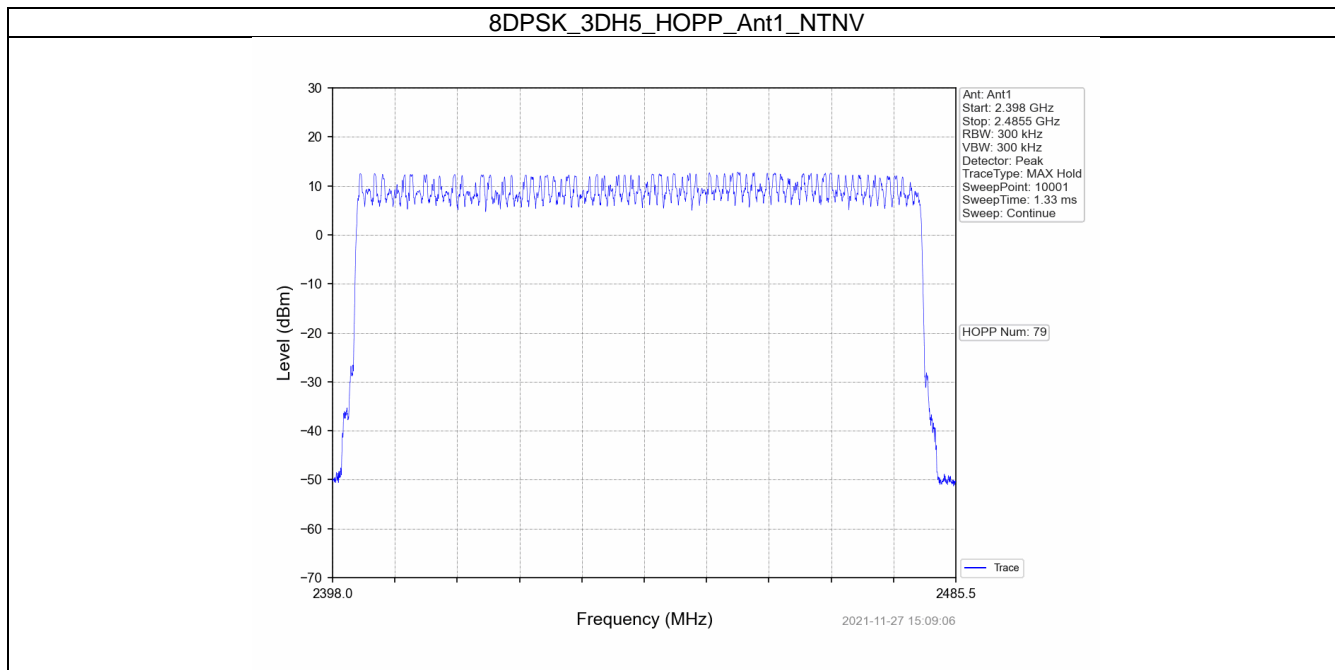


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5. Time of Occupancy (Dwell Time)

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	0.374	31.600	170	63.580	<=400	Pass
			DH3	1.630	31.600	114	185.820	<=400	Pass
			DH5	2.880	31.600	82	236.160	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.386	31.600	170	65.620	<=400	Pass
			2DH3	1.636	31.600	99	161.964	<=400	Pass
			2DH5	2.886	31.600	71	204.906	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.384	31.600	171	65.664	<=400	Pass
			3DH3	1.636	31.600	98	160.328	<=400	Pass
			3DH5	2.886	31.600	92	265.512	<=400	Pass



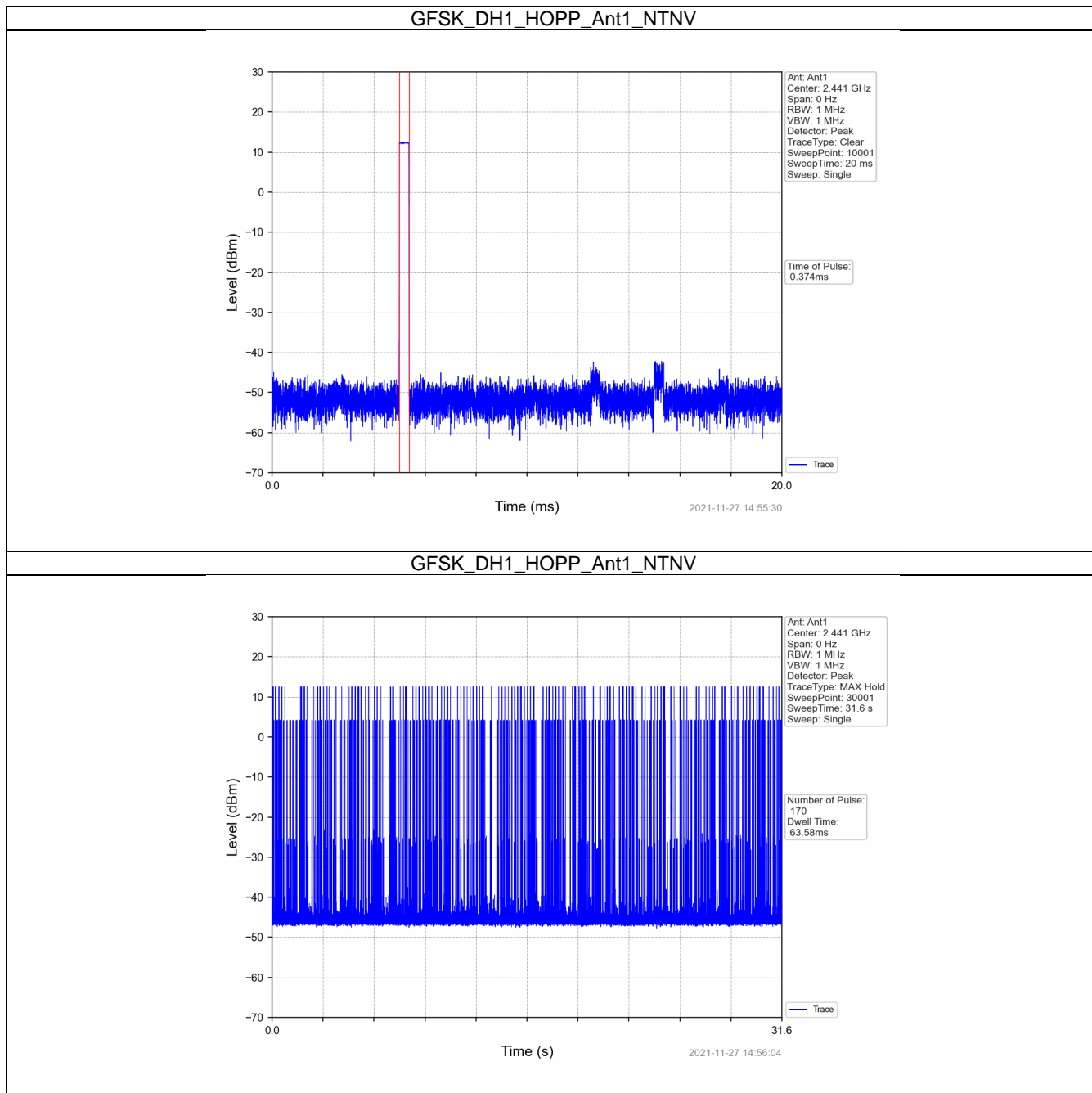
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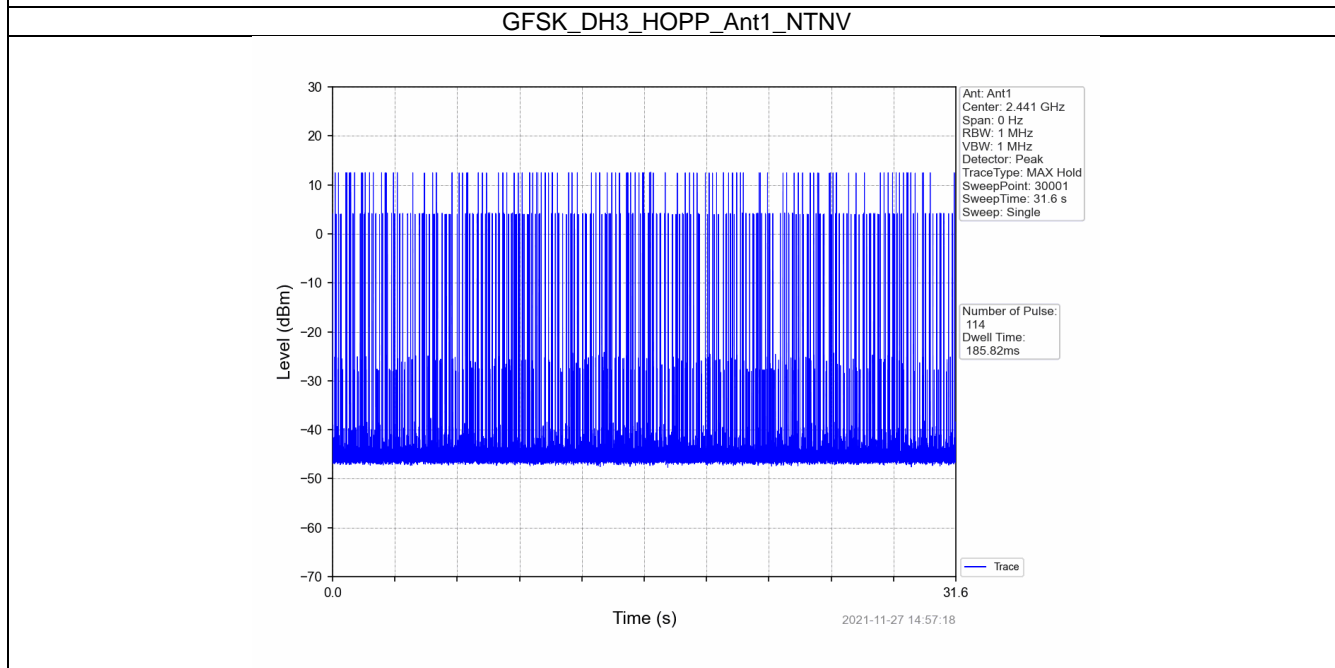
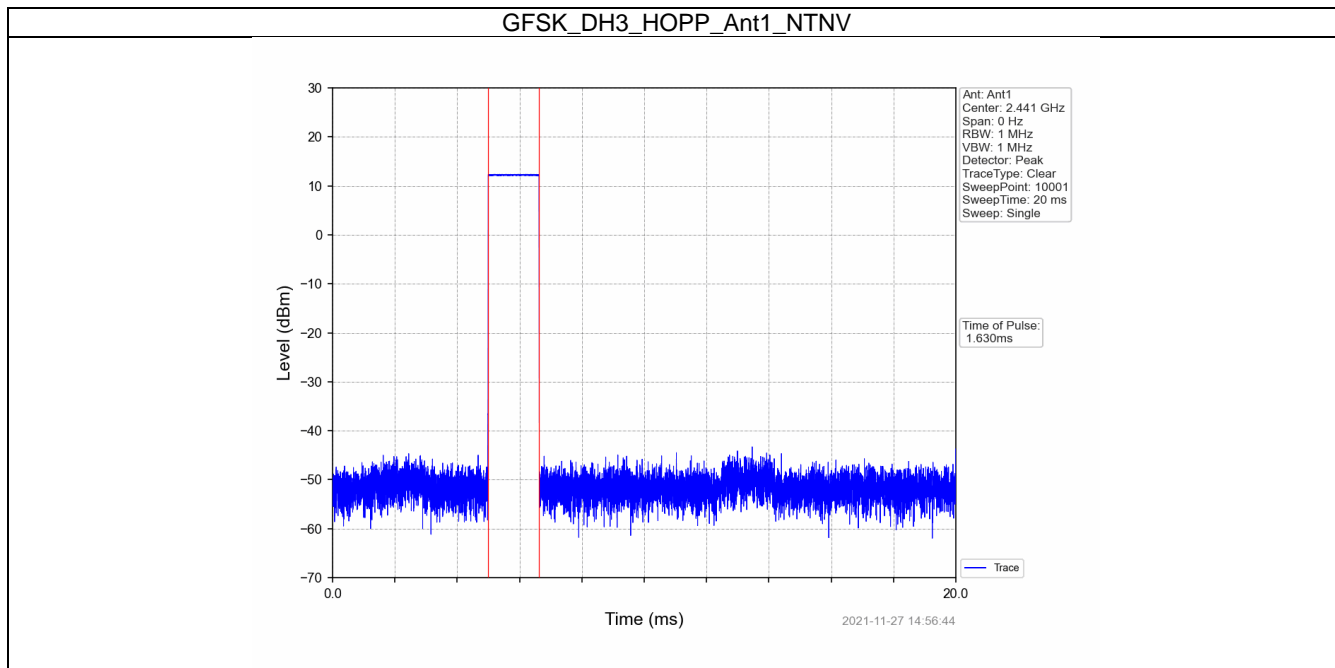
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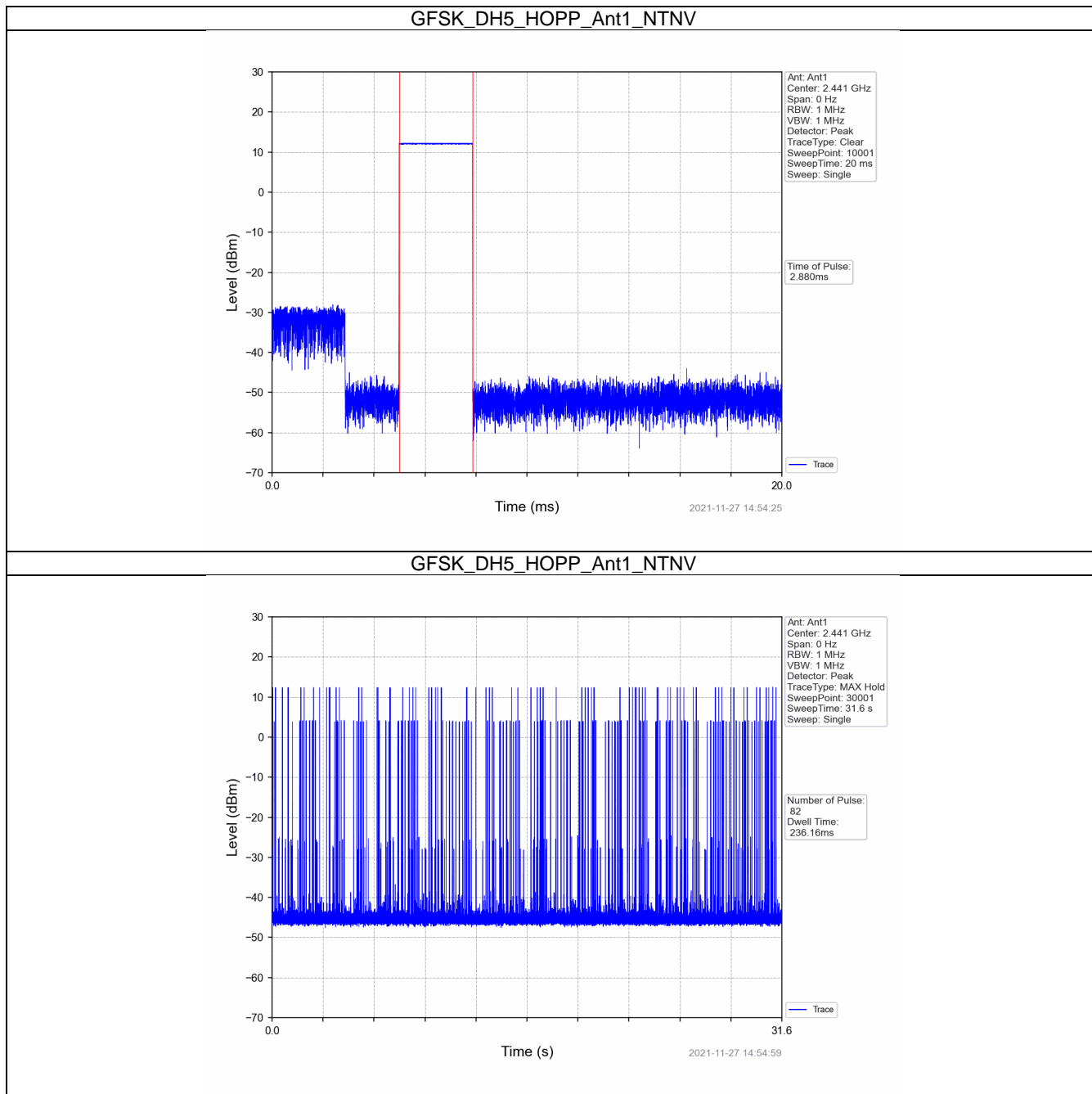
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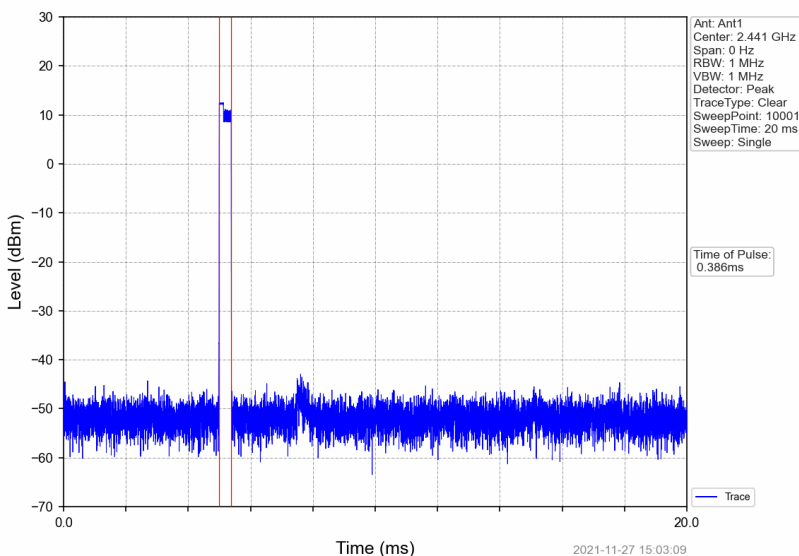
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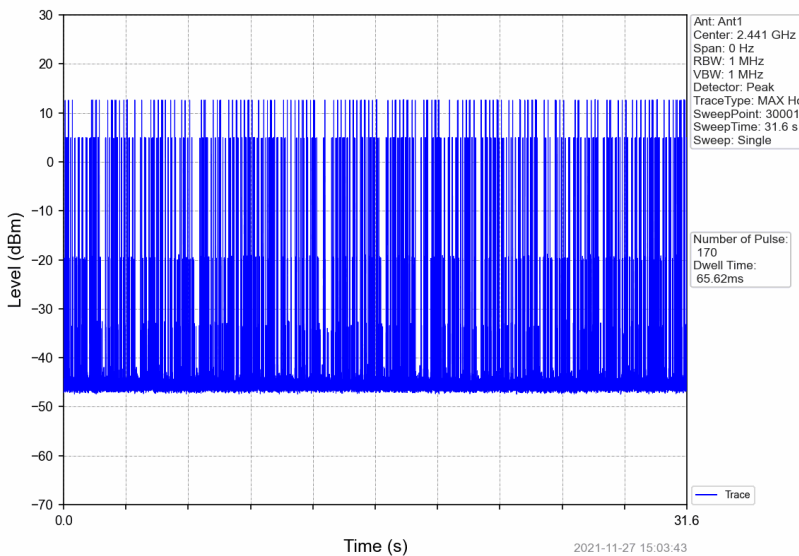
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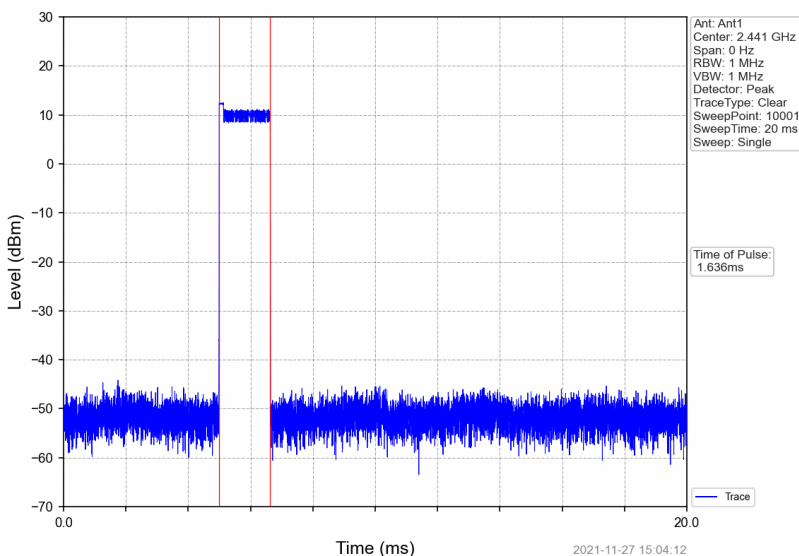


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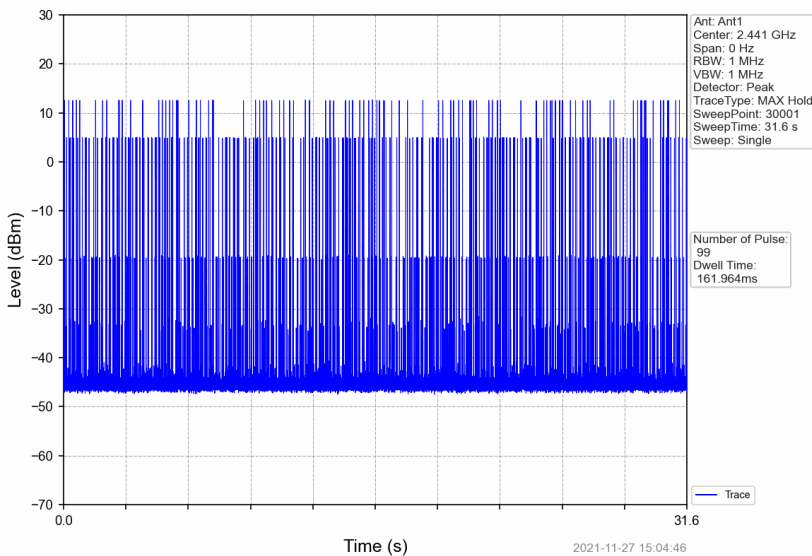


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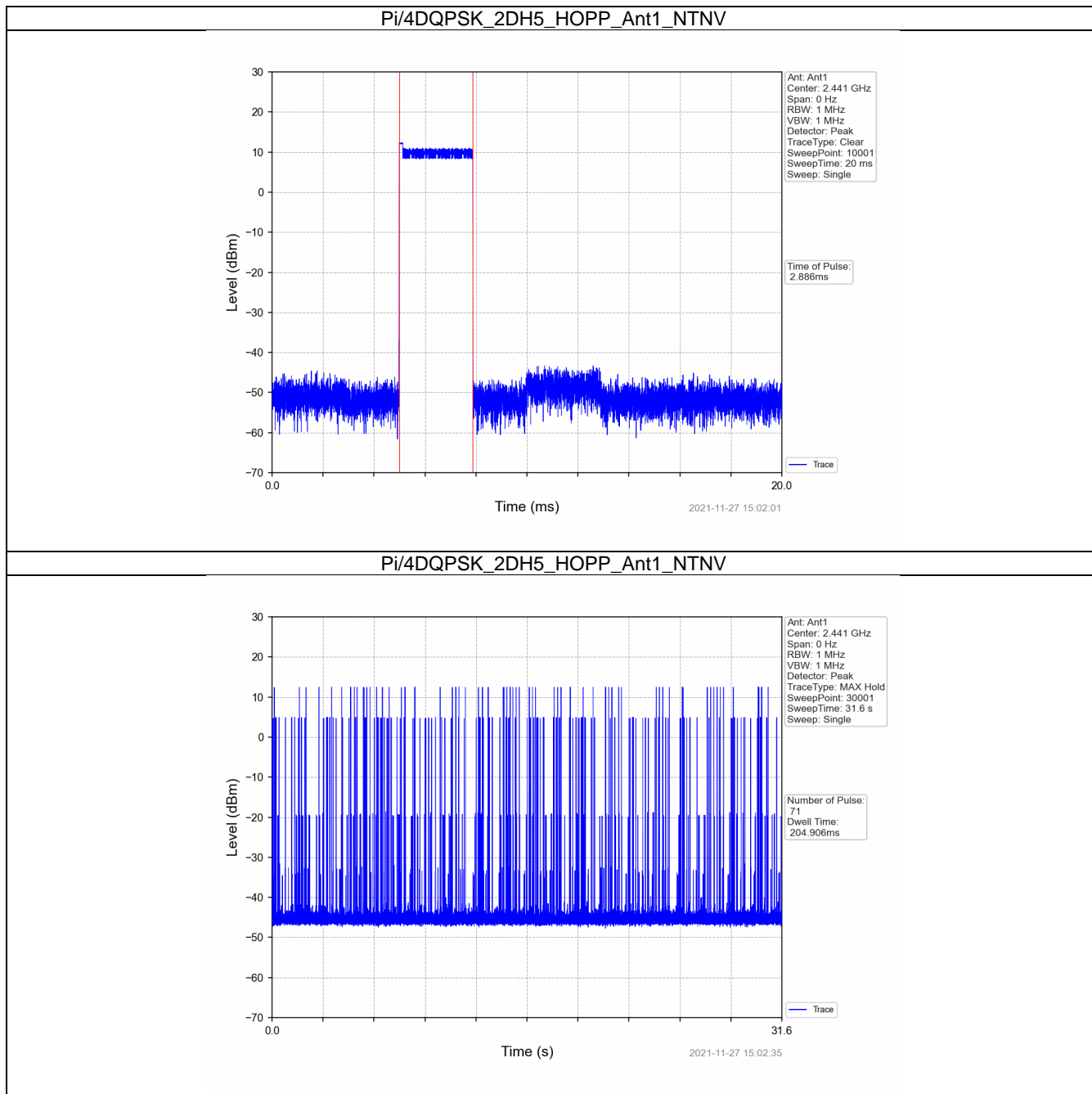
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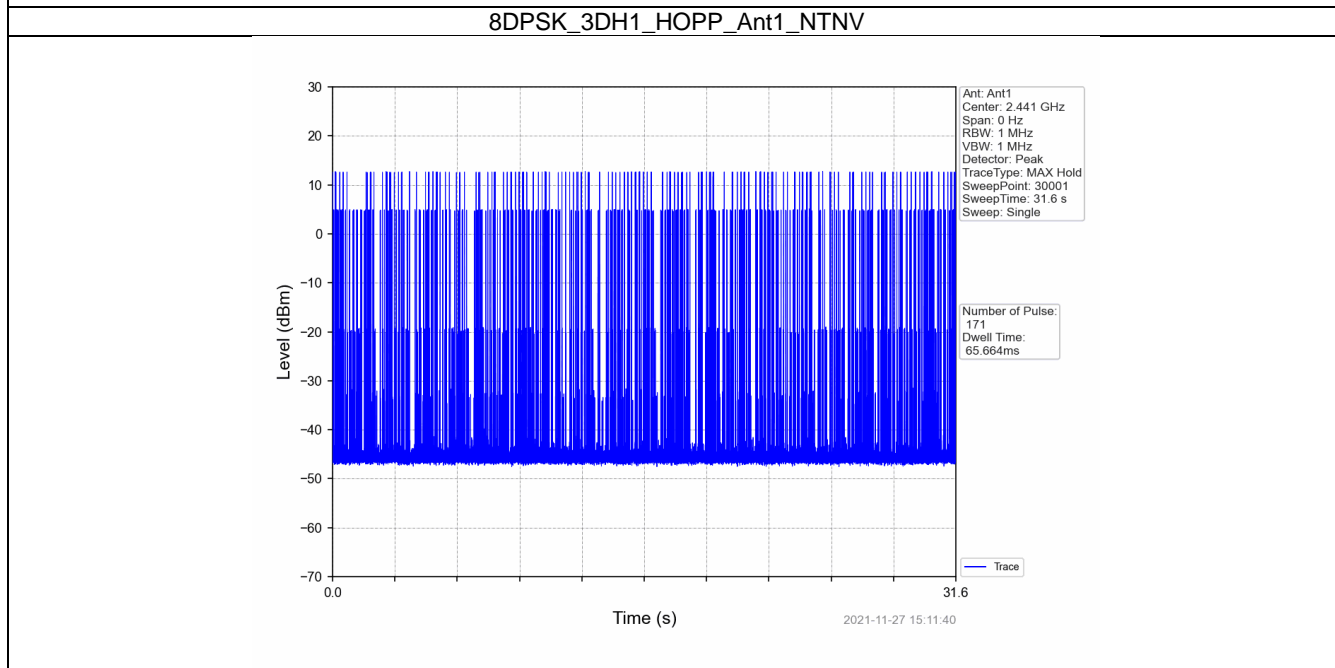
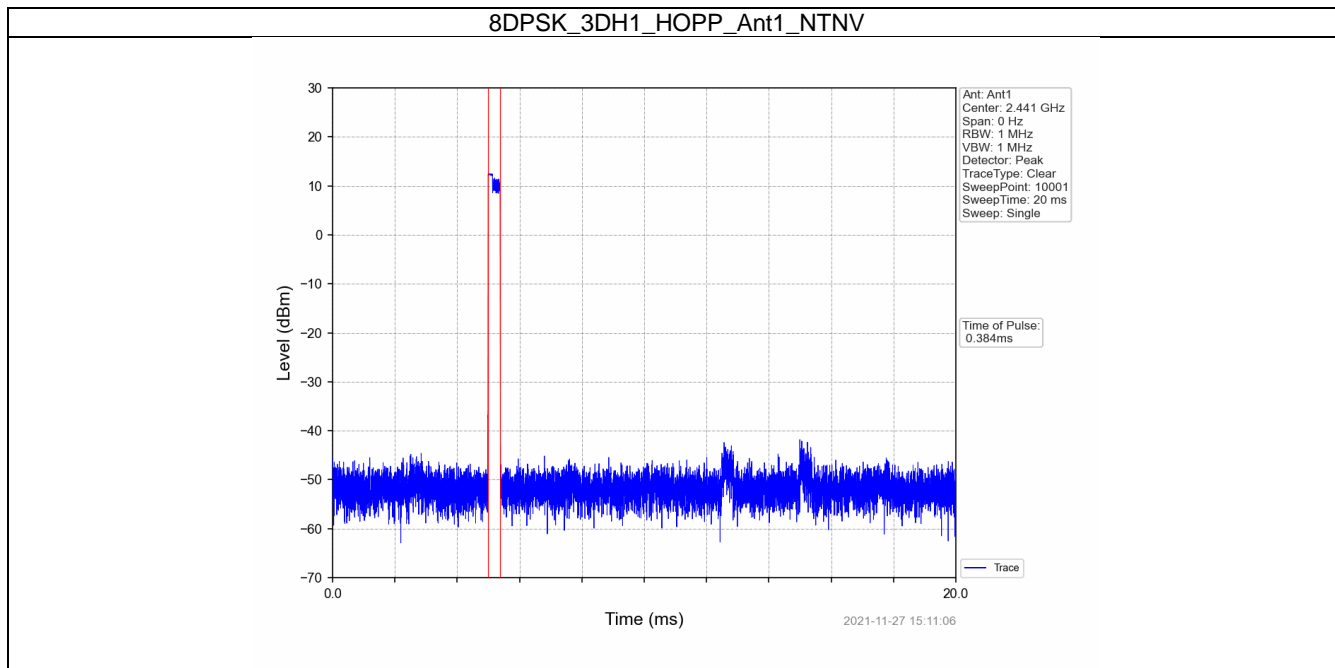


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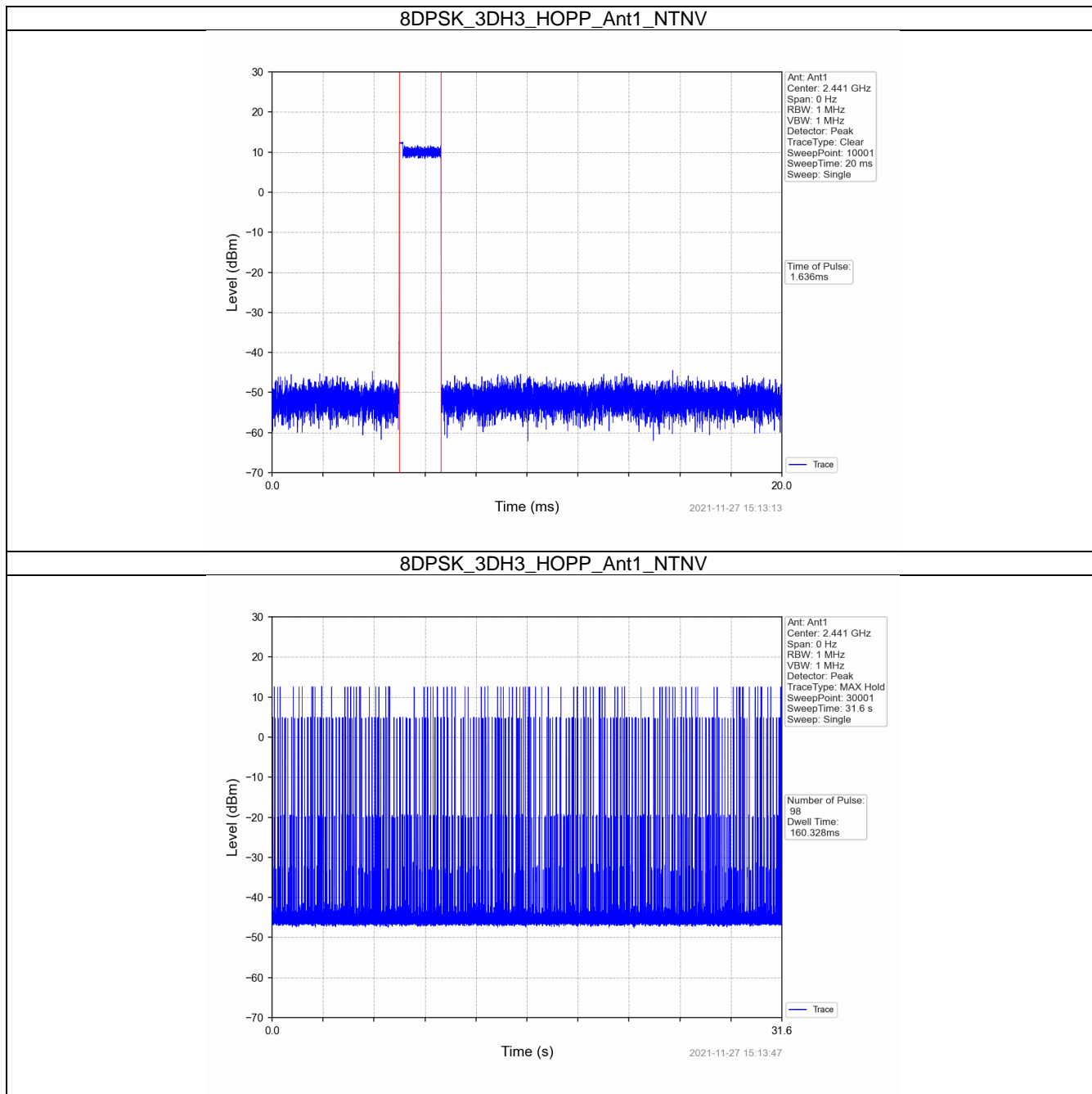
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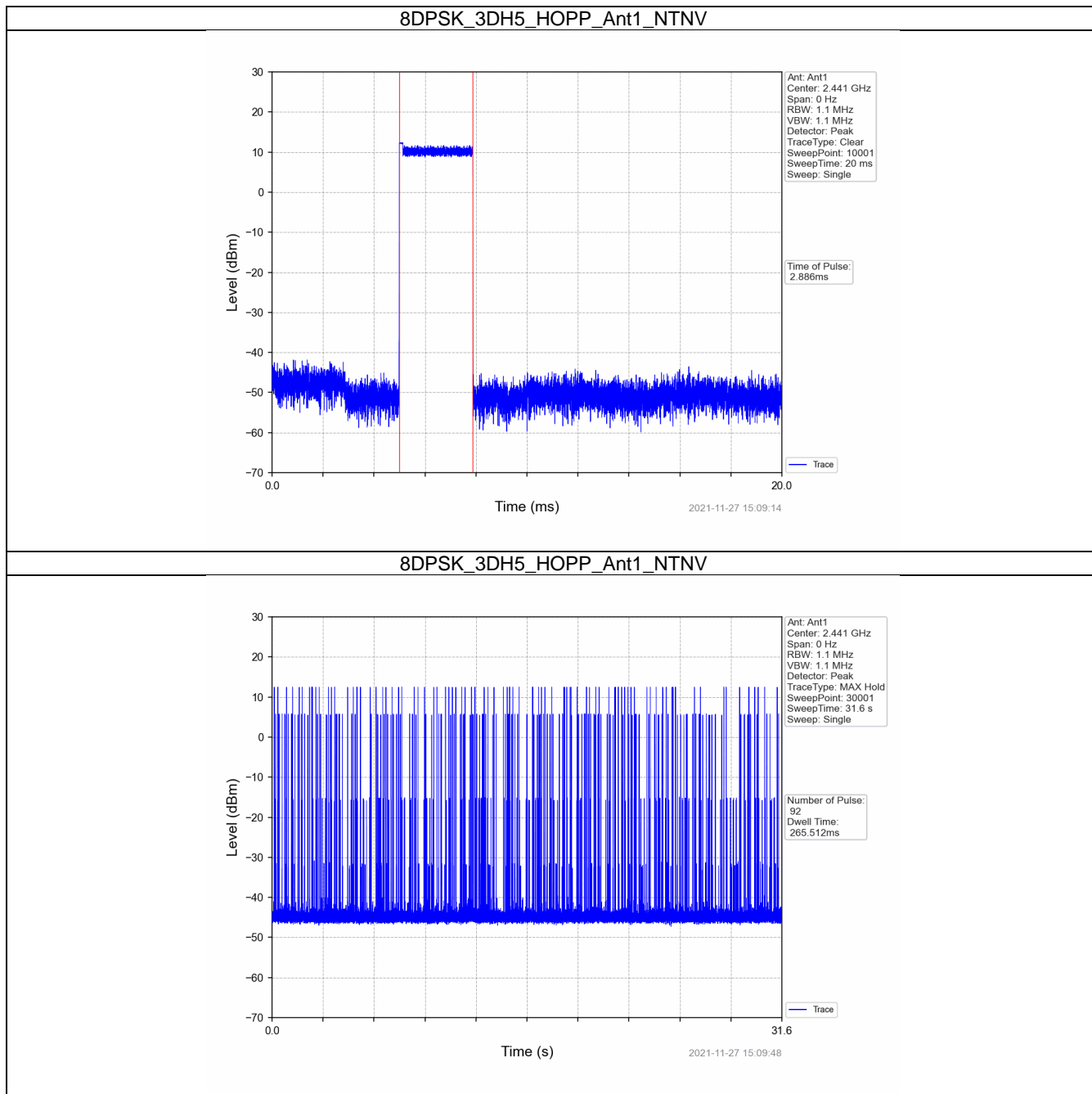


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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

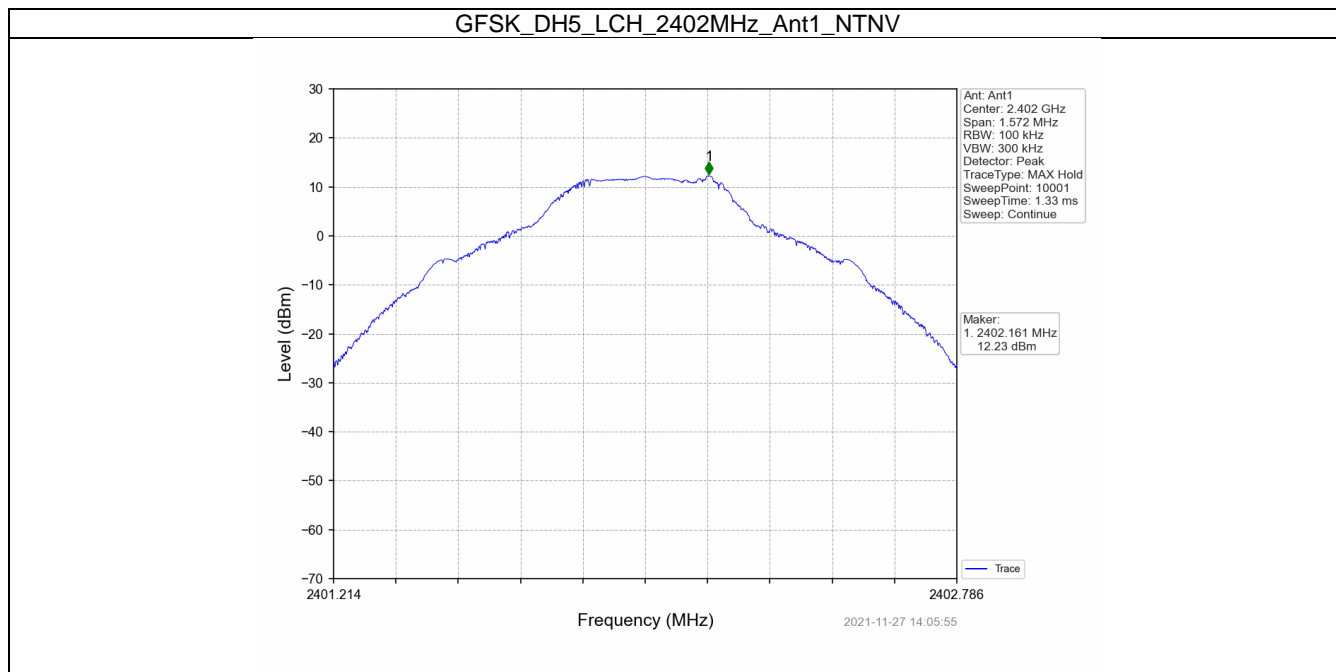
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	12.23
		2441	DH5	1	12.23
		2480	DH5	1	11.74
Pi/4QPSK	SISO	2402	2DH5	1	12.15
		2441	2DH5	1	12.11
		2480	2DH5	1	11.66
8DPSK	SISO	2402	3DH5	1	12.30
		2441	3DH5	1	12.24
		2480	3DH5	1	11.79

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

6.1.2 Test Graph

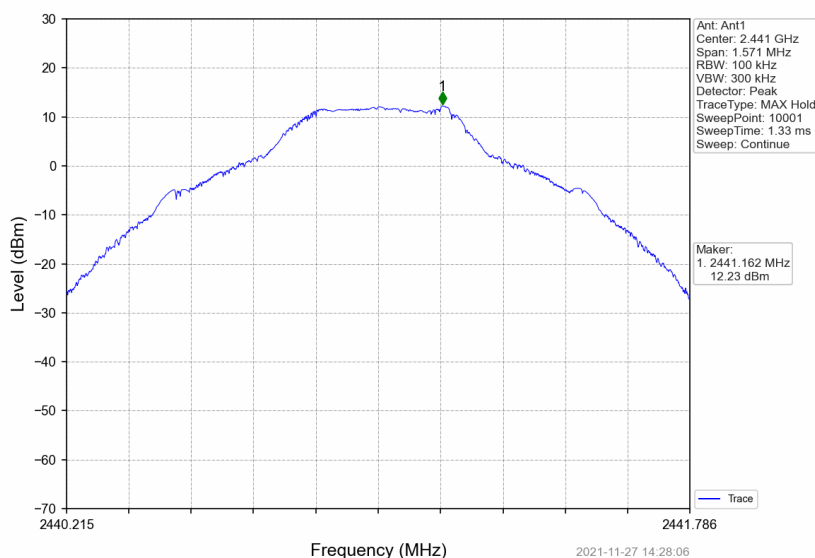


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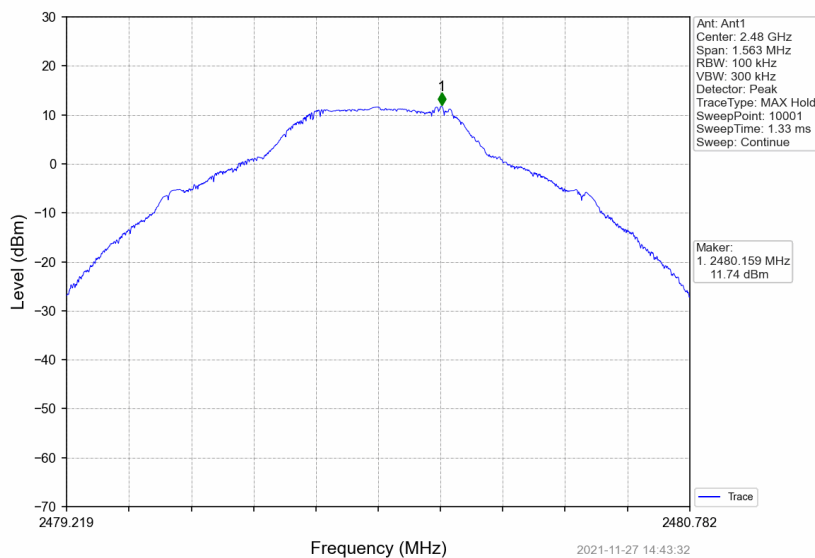
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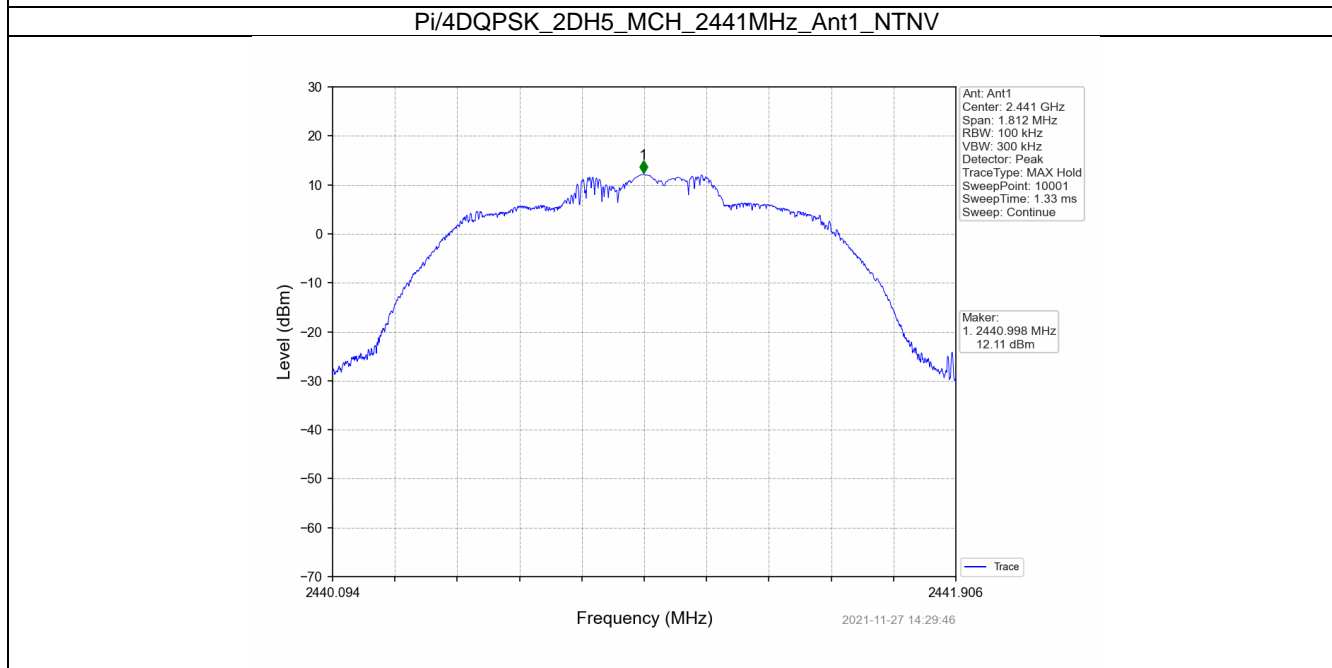
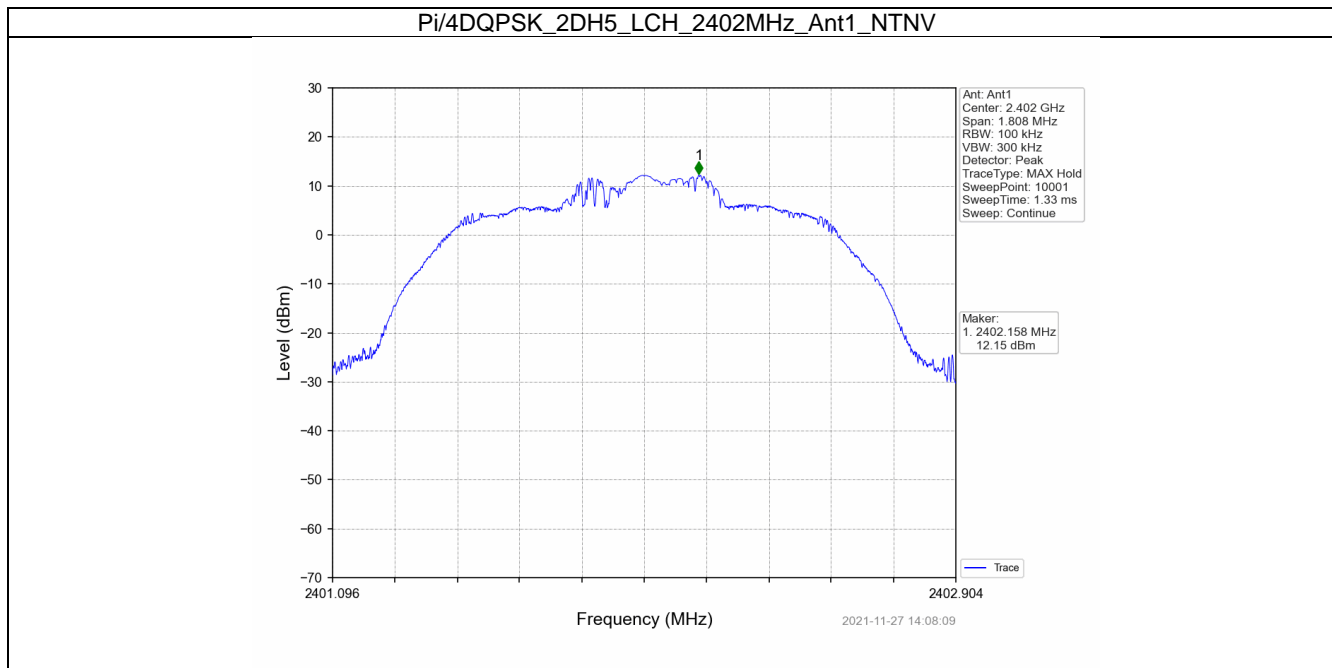
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



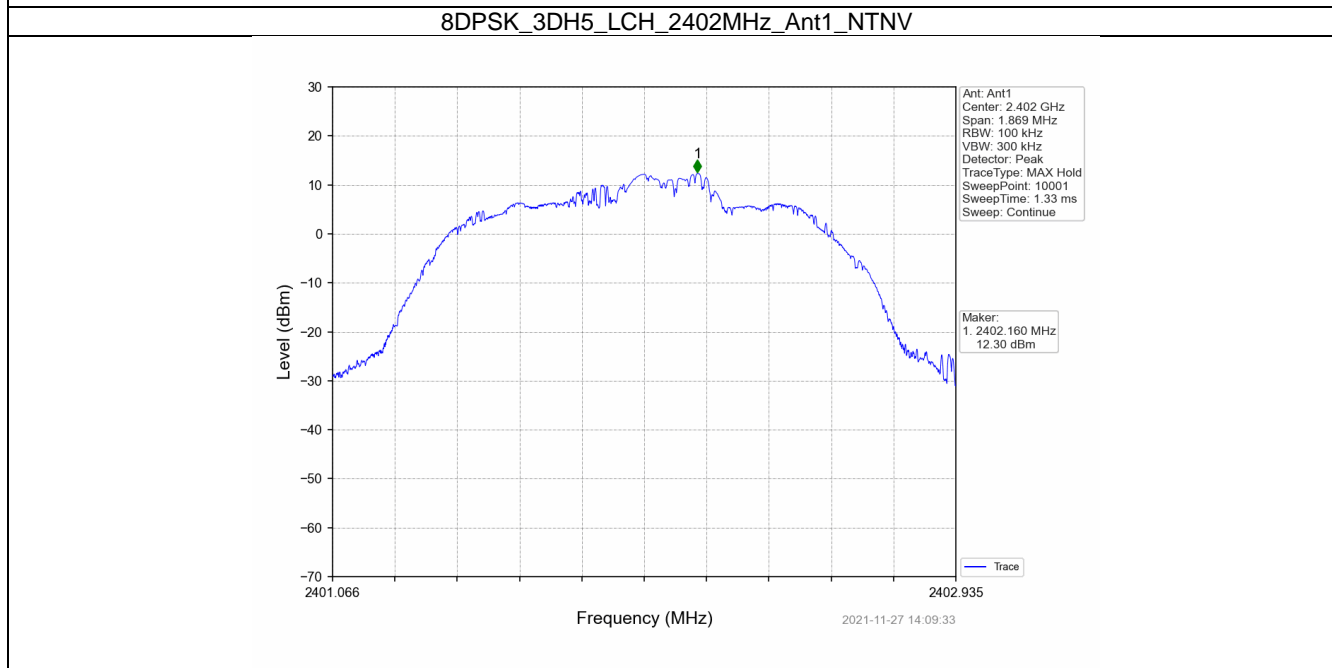
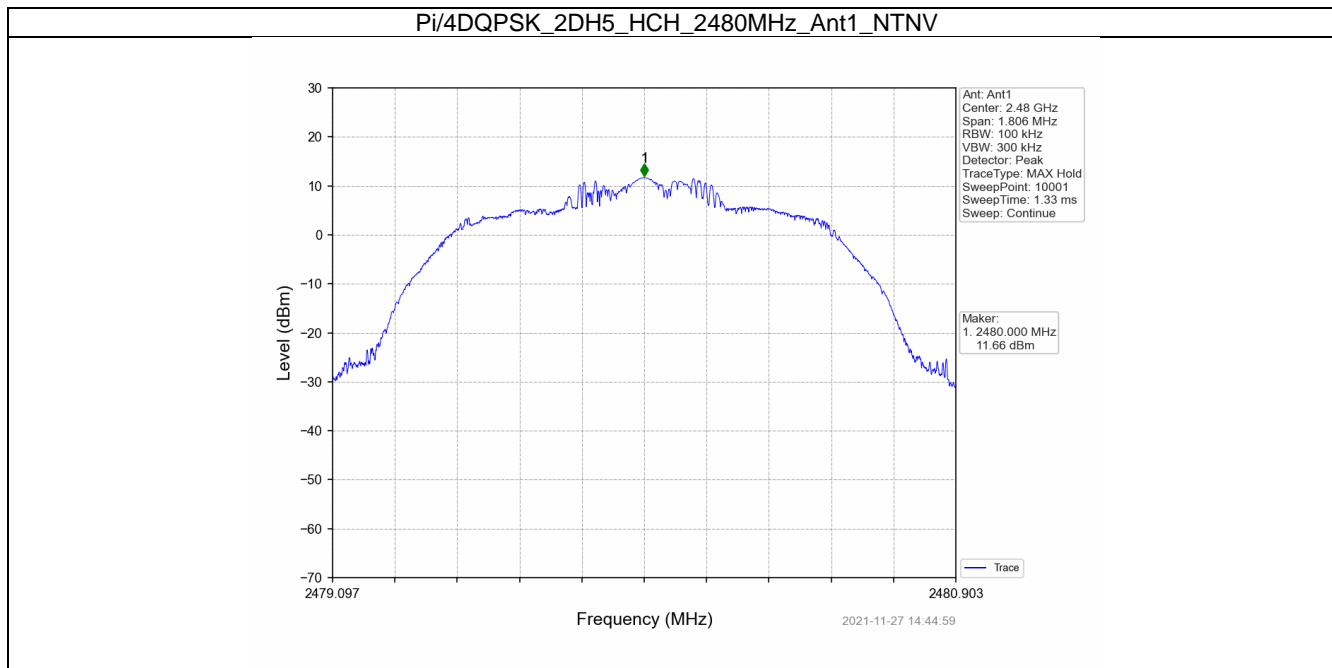
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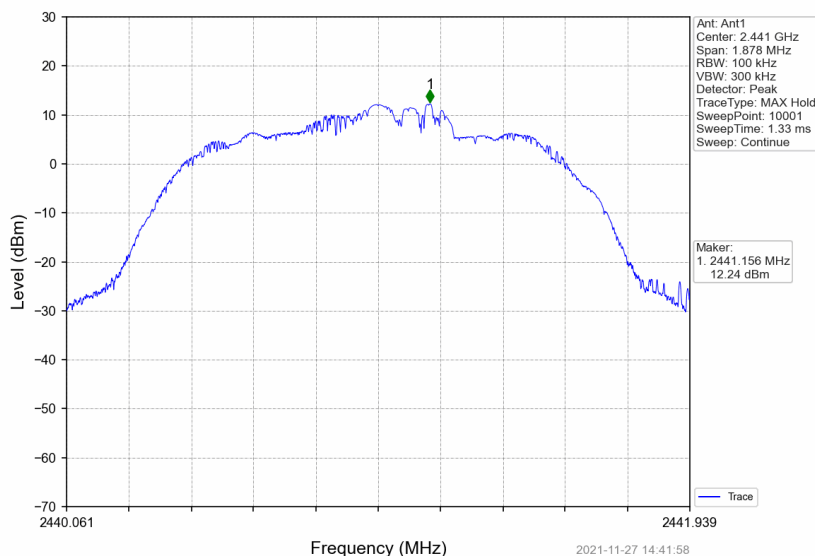


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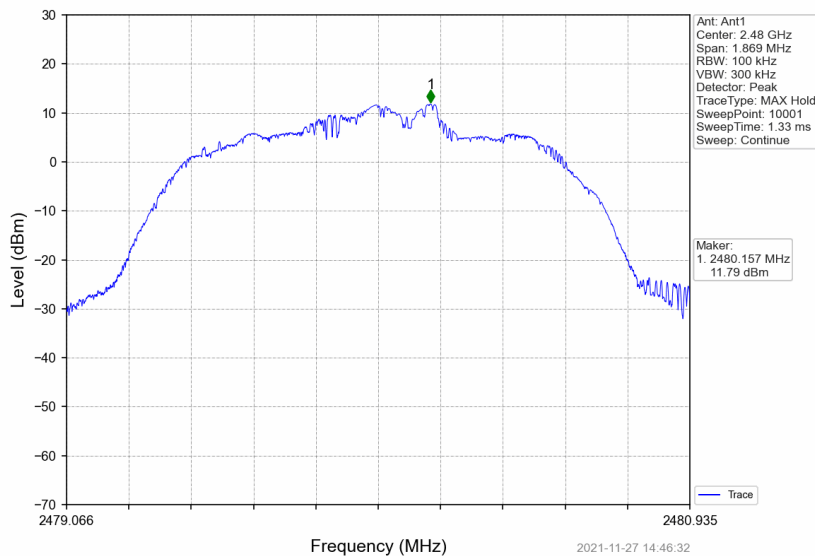
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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6.2 CSE

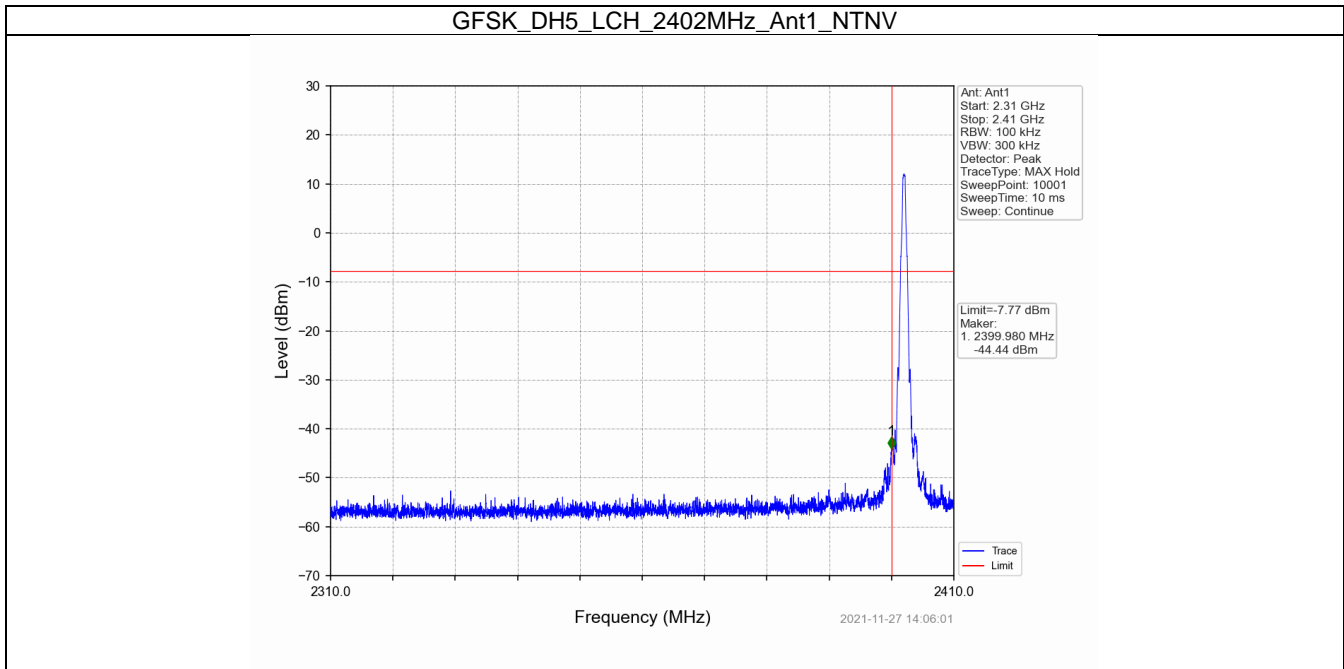
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	12.23	-7.77	Pass
		2441	DH5	1	12.23	-7.77	Pass
		2480	DH5	1	12.23	-7.77	Pass
		HOPP	DH5	1	12.23	-7.77	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	12.15	-7.85	Pass
		2441	2DH5	1	12.15	-7.85	Pass
		2480	2DH5	1	12.15	-7.85	Pass
		HOPP	2DH5	1	12.15	-7.85	Pass
8DPSK	SISO	2402	3DH5	1	12.30	-7.70	Pass
		2441	3DH5	1	12.30	-7.70	Pass
		2480	3DH5	1	12.30	-7.70	Pass
		HOPP	3DH5	1	12.30	-7.70	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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

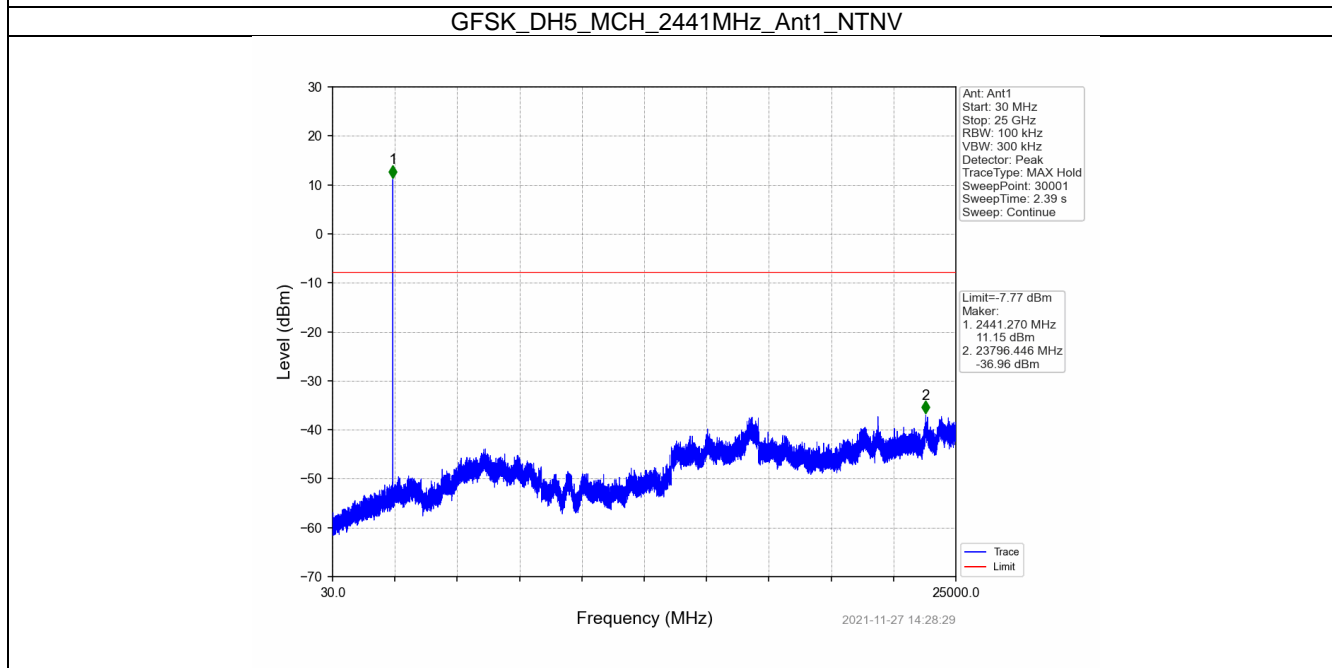
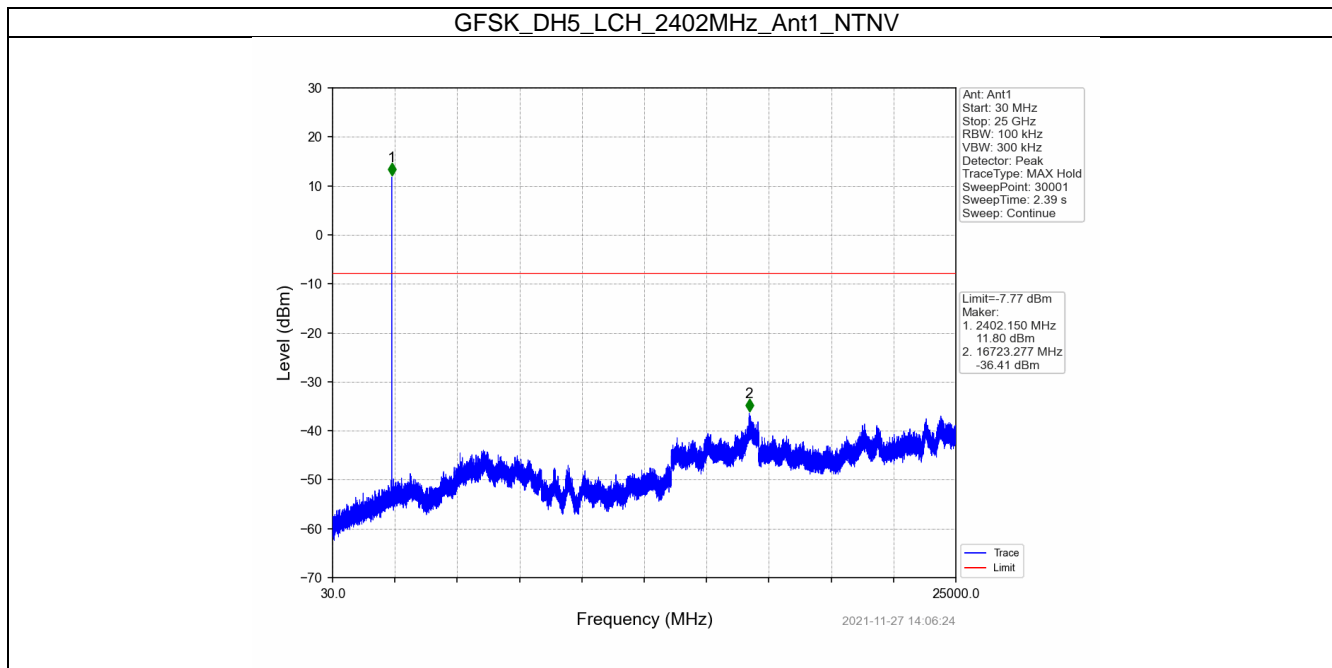
6.2.2 Test Graph



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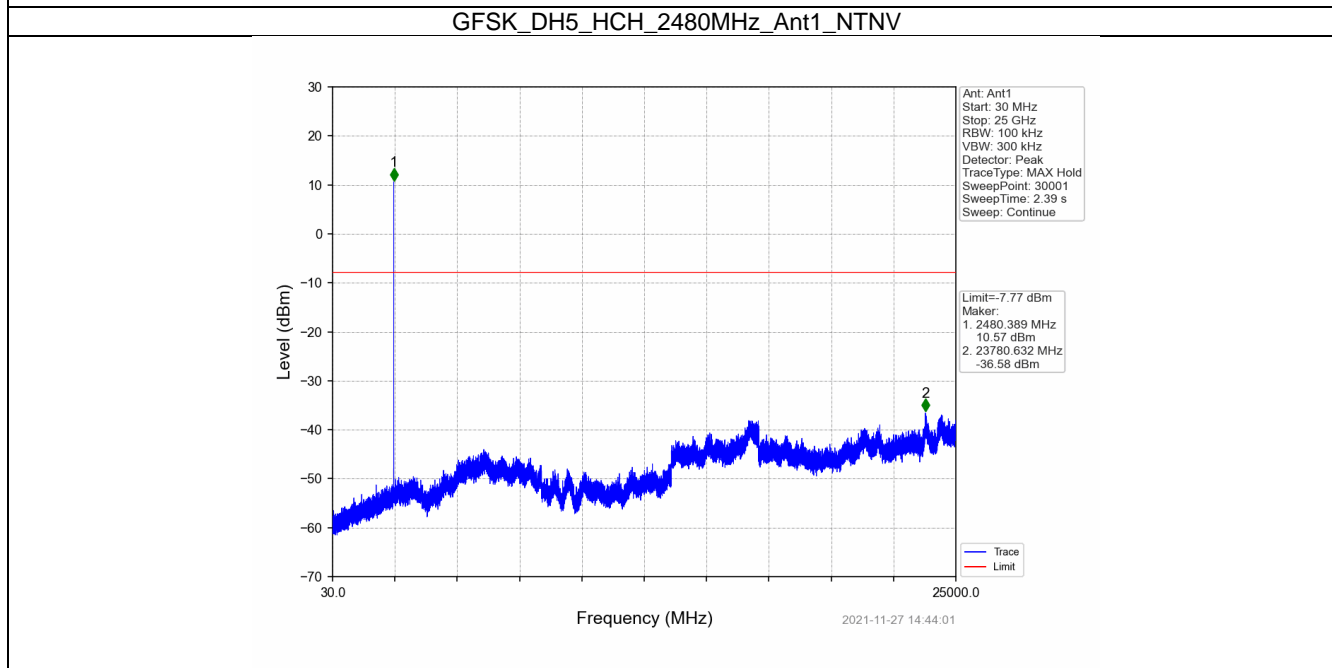
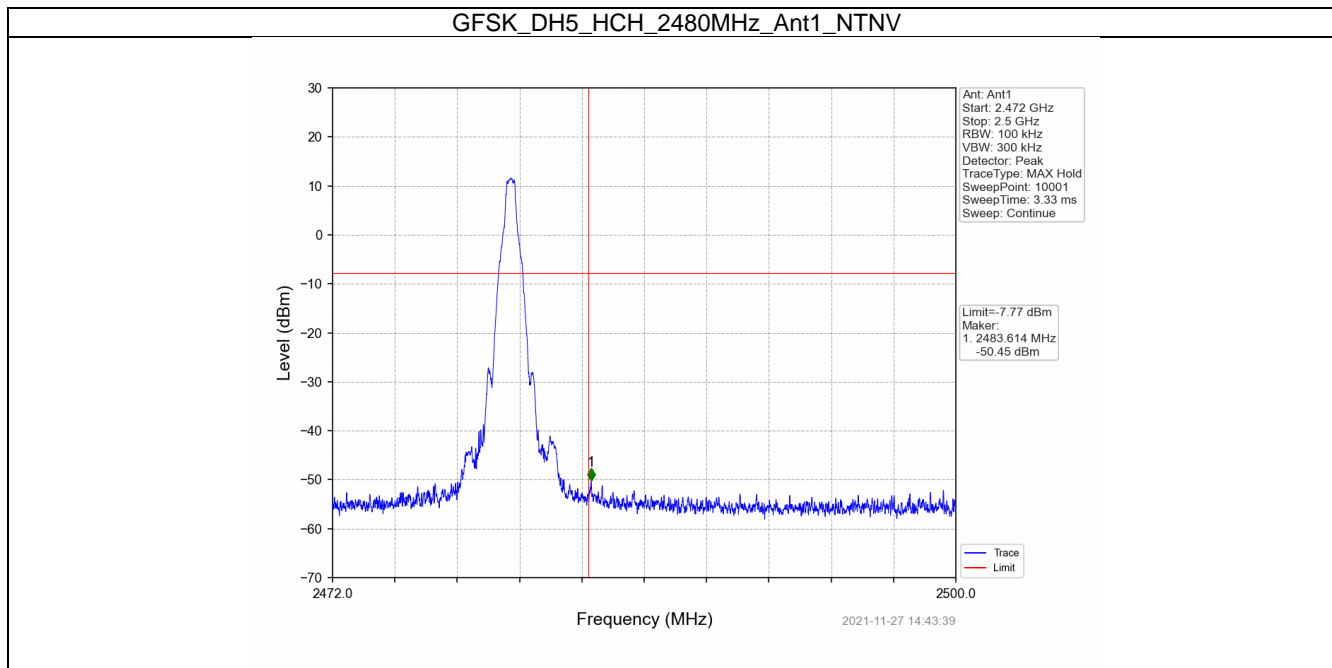
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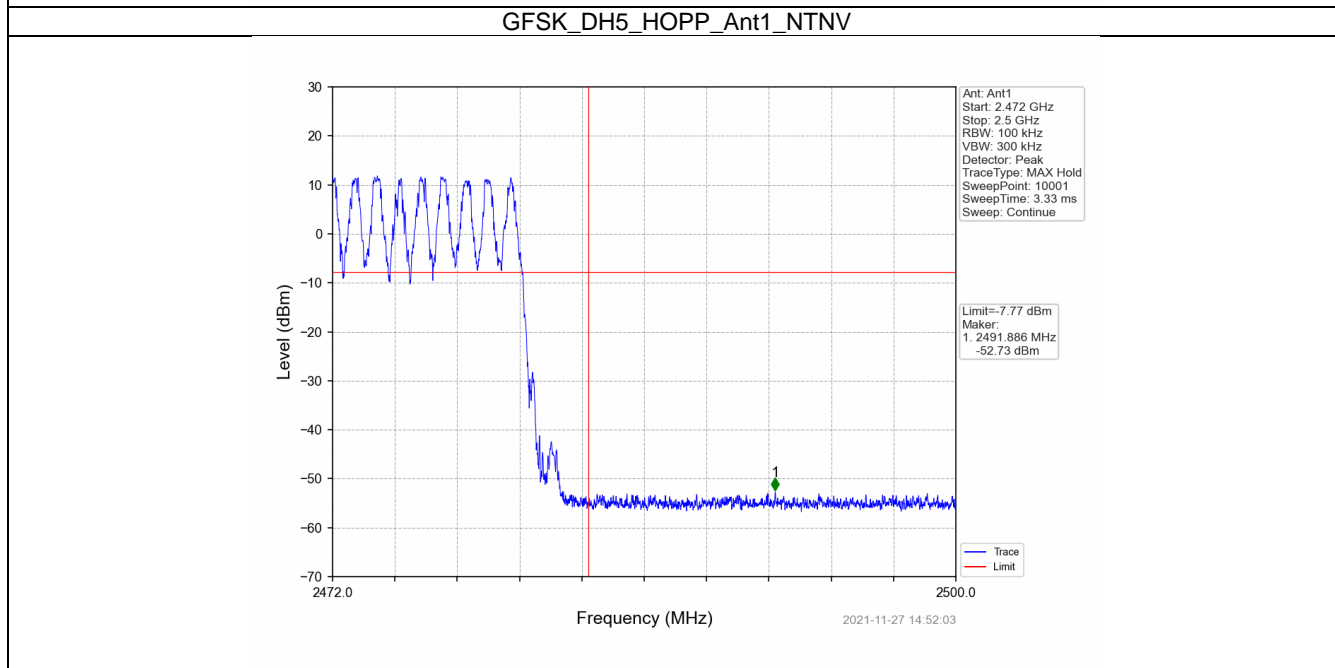
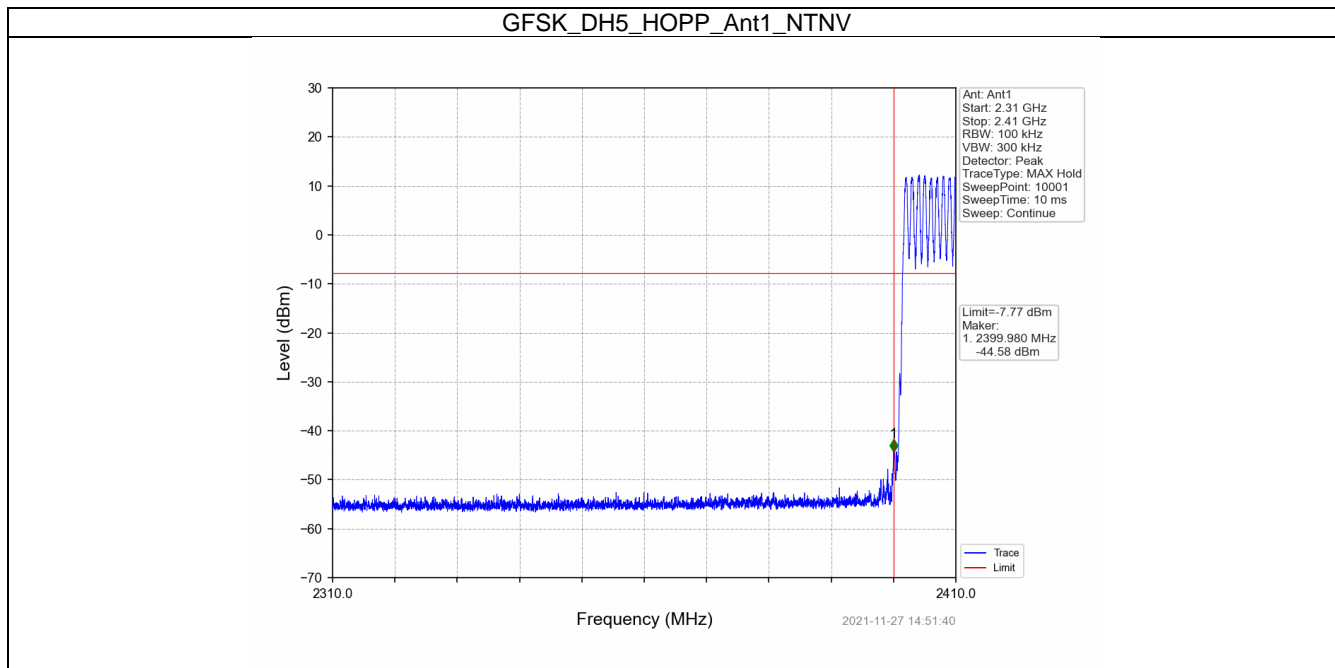
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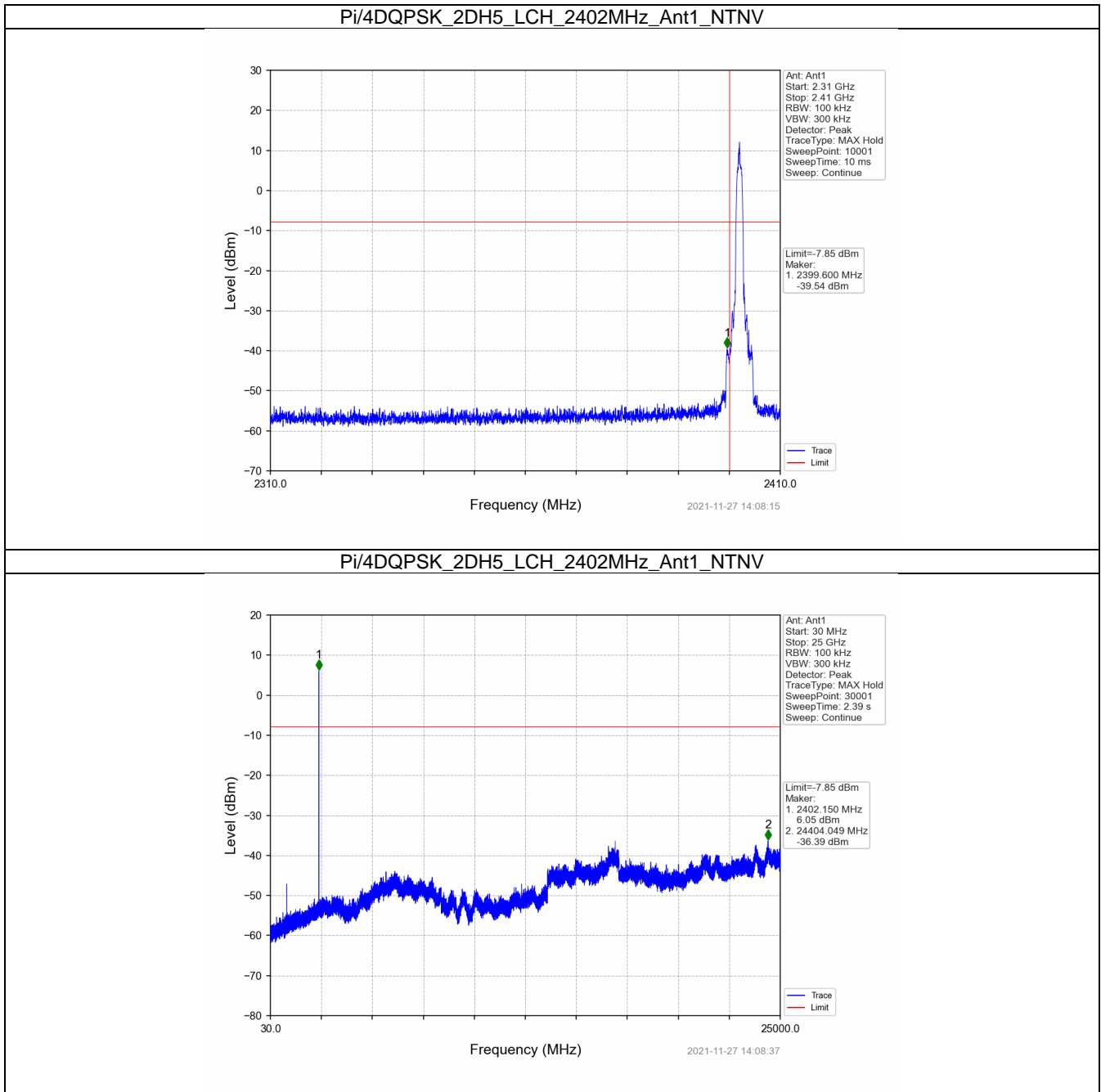
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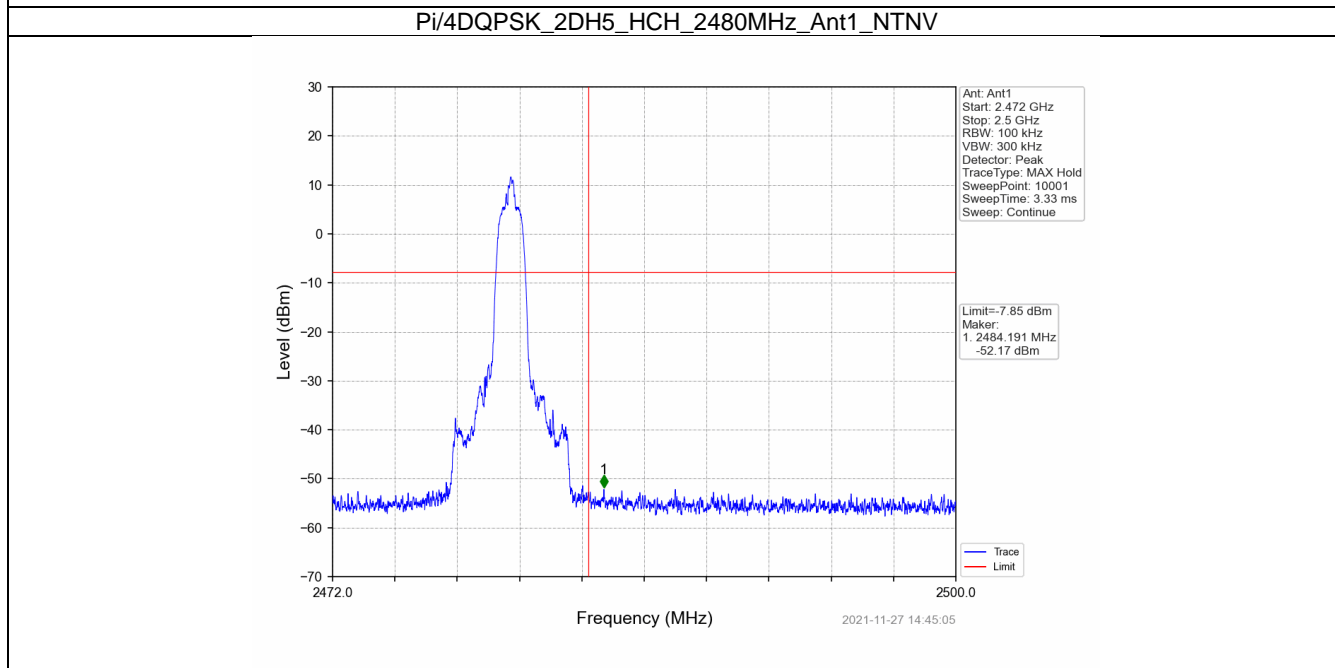
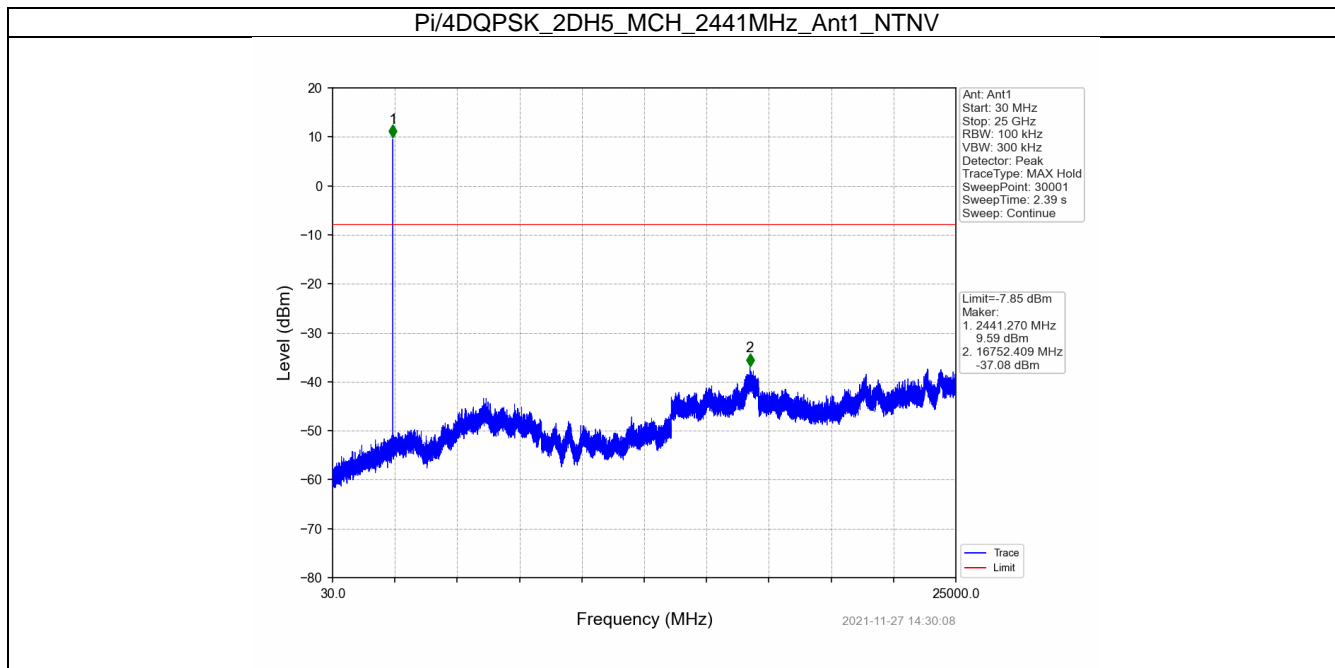


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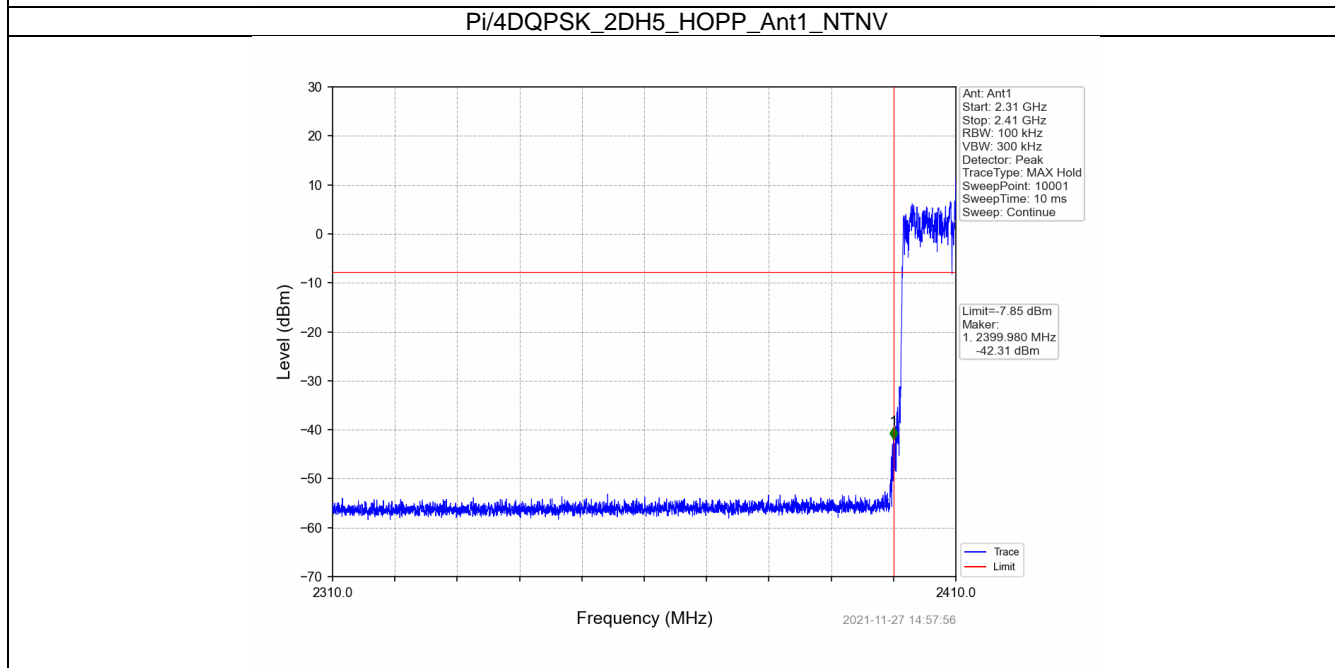
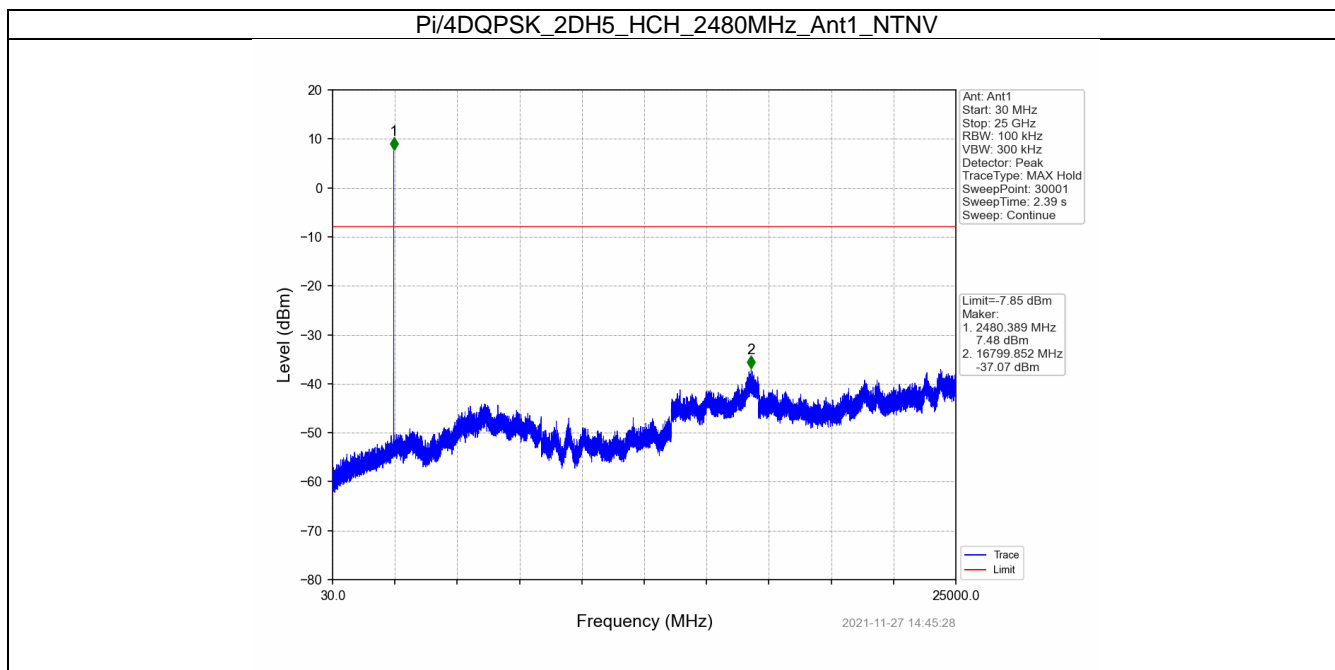
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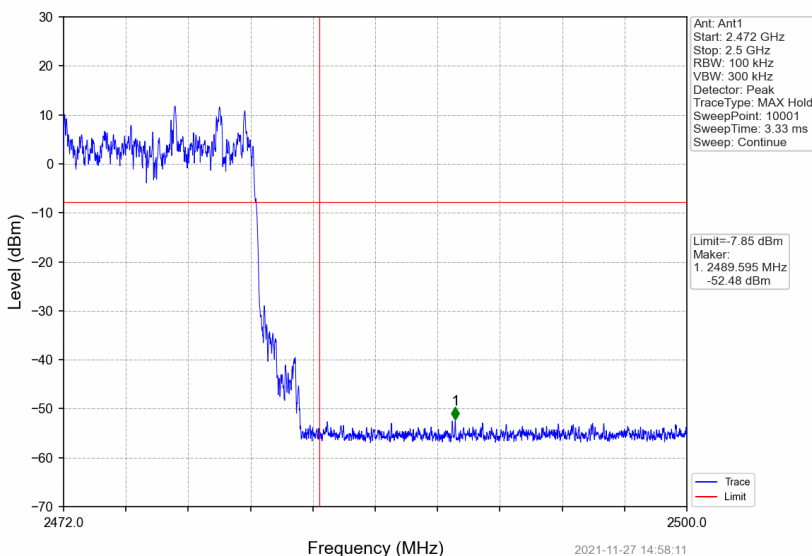
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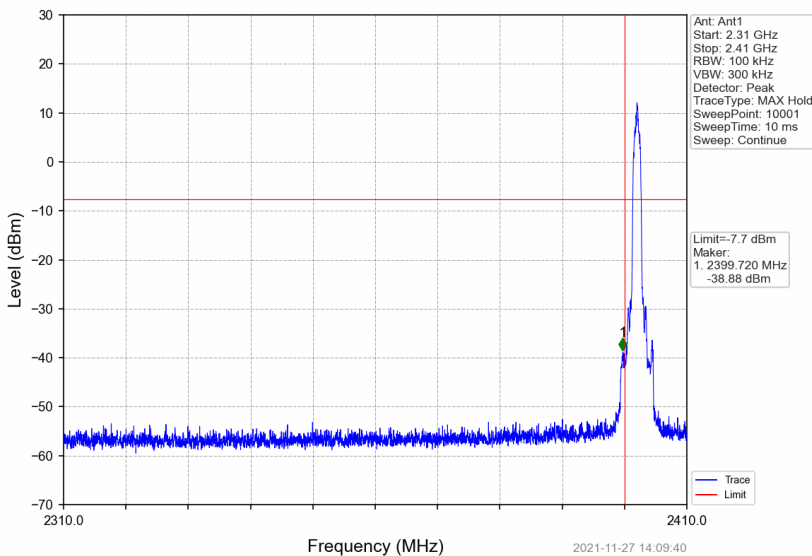
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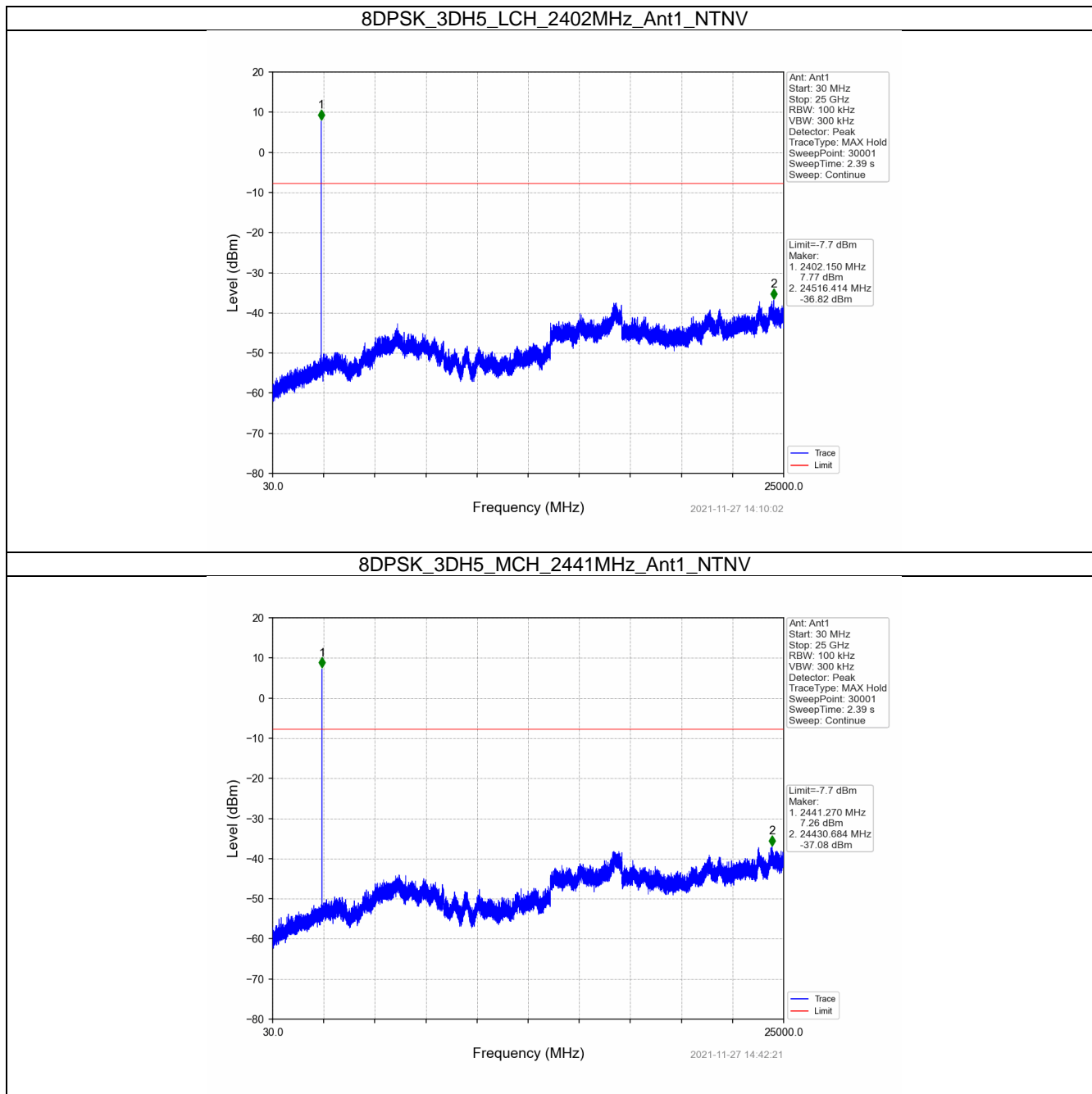
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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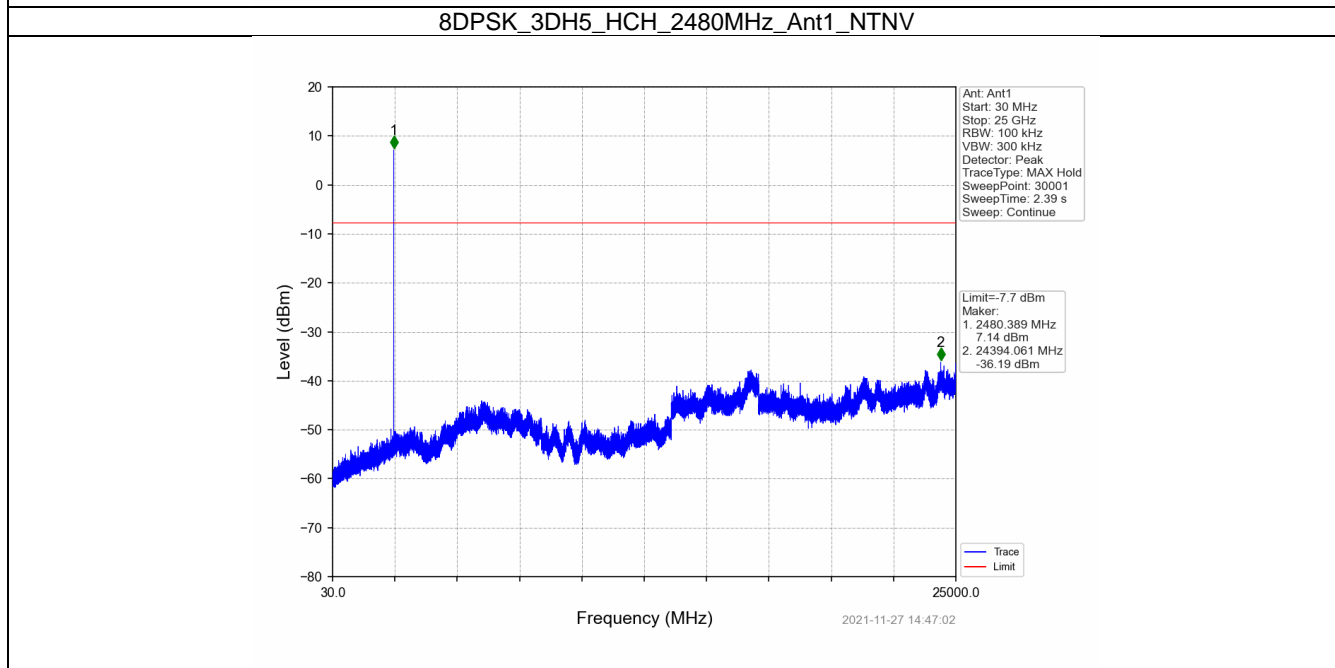
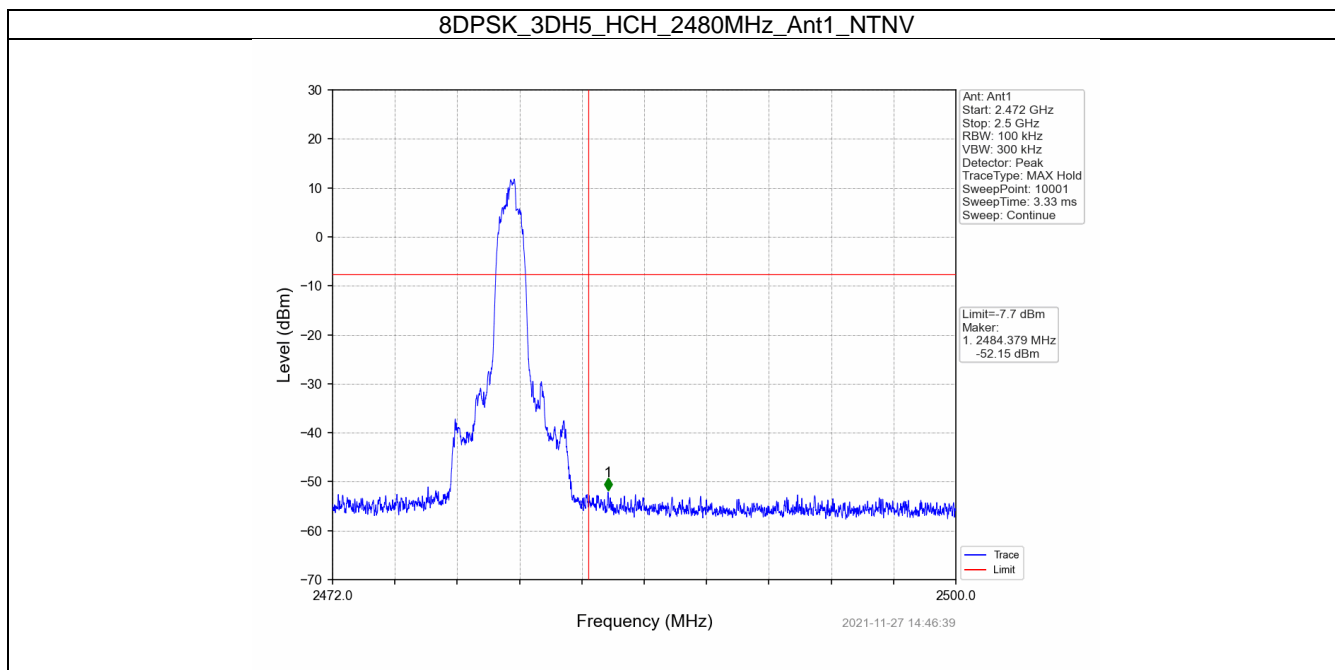


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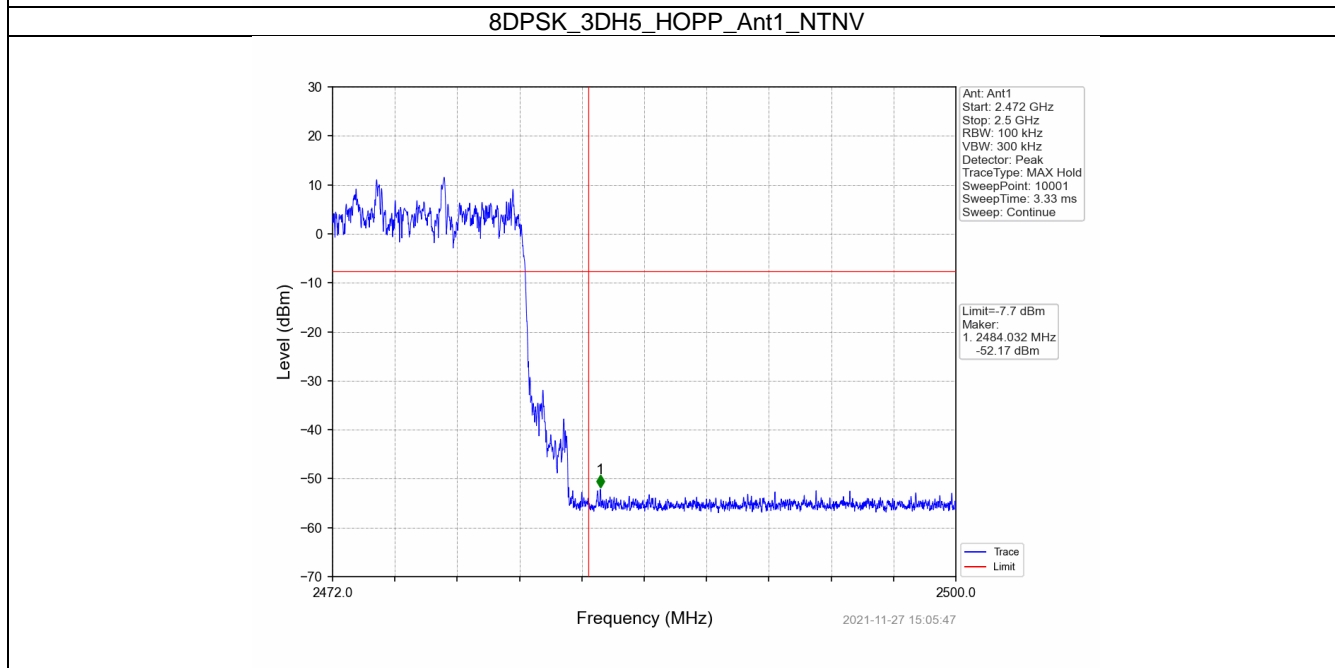
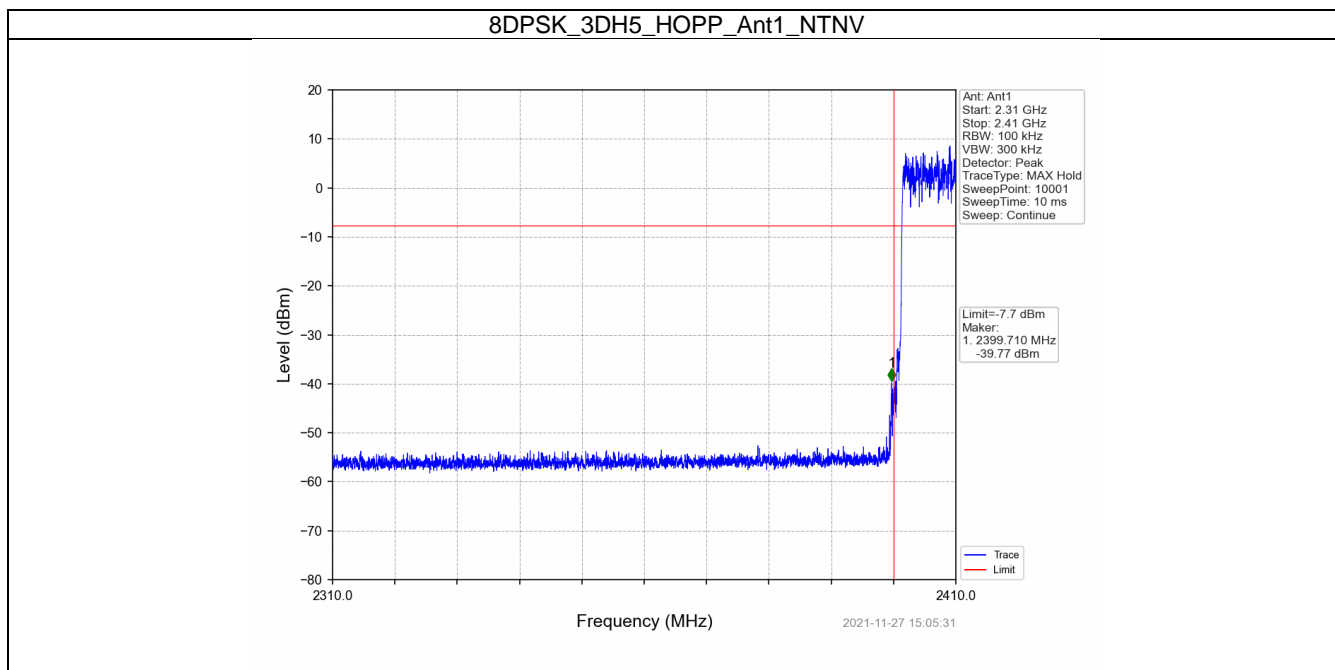


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