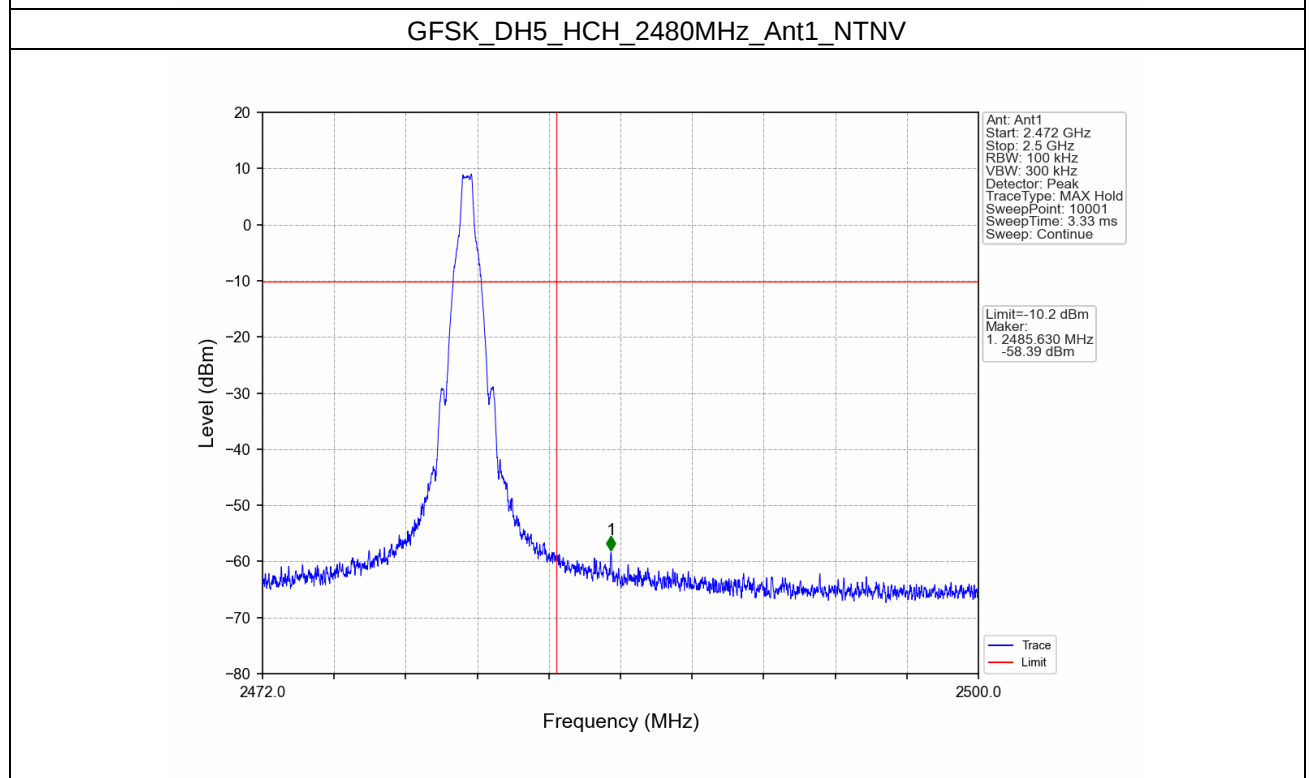
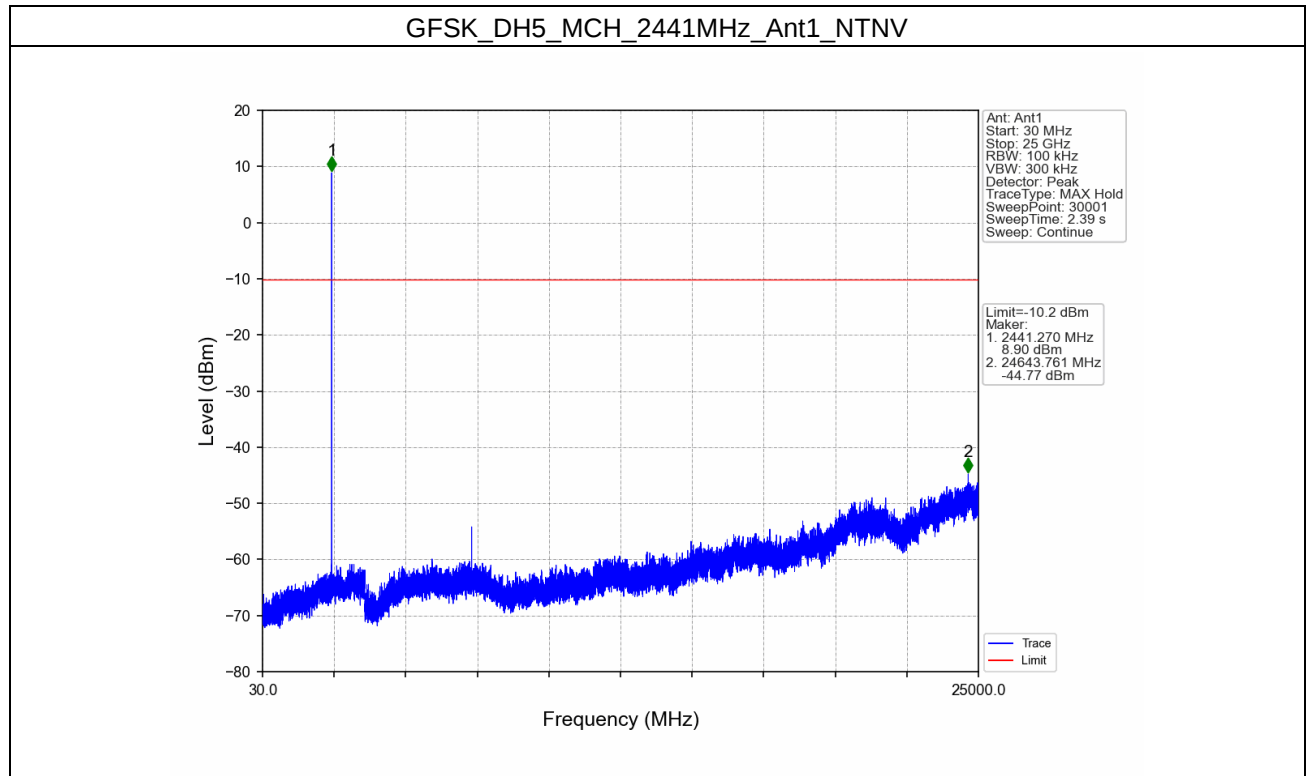


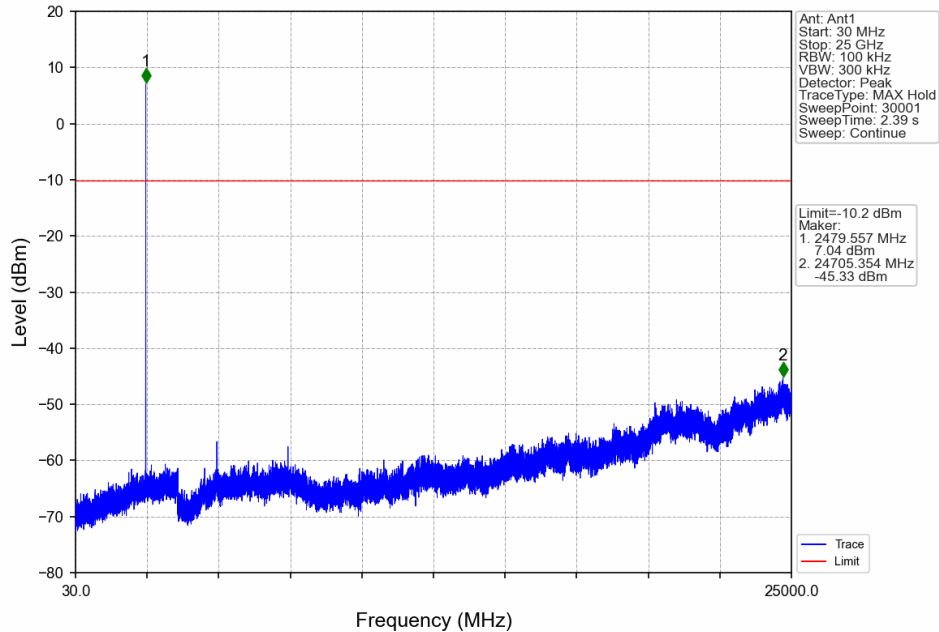


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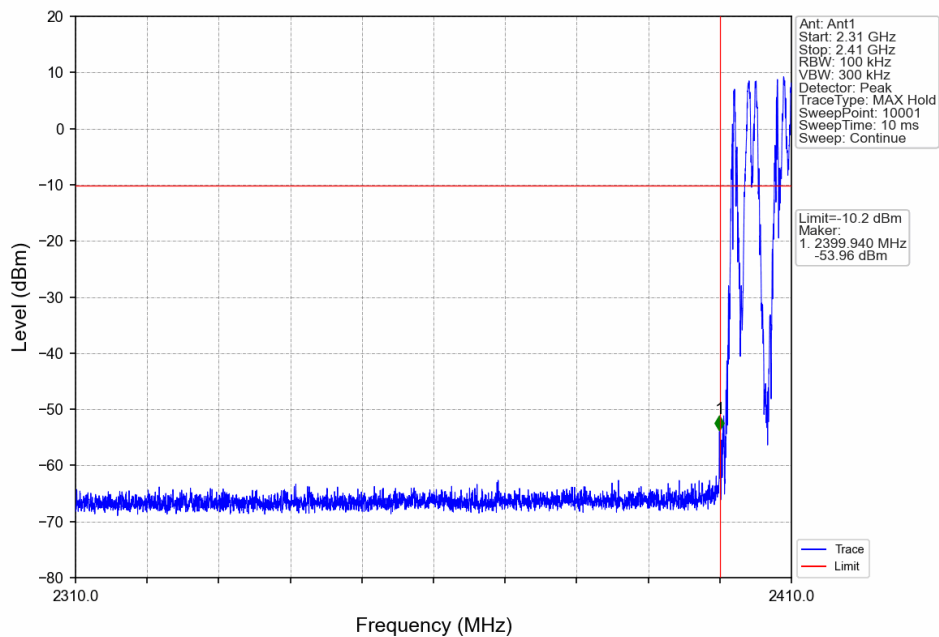
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Guangzhou Branch, SGS China EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

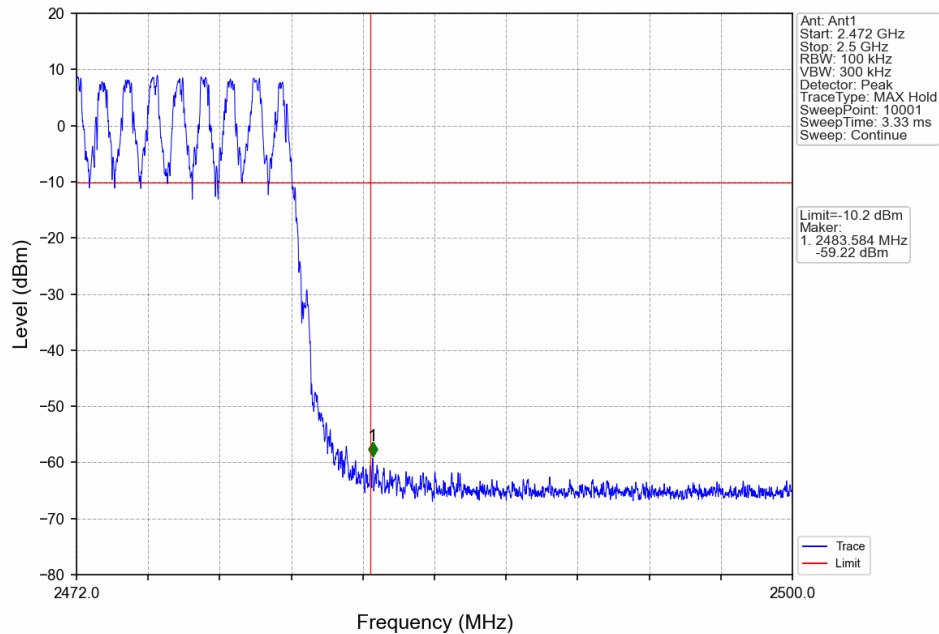
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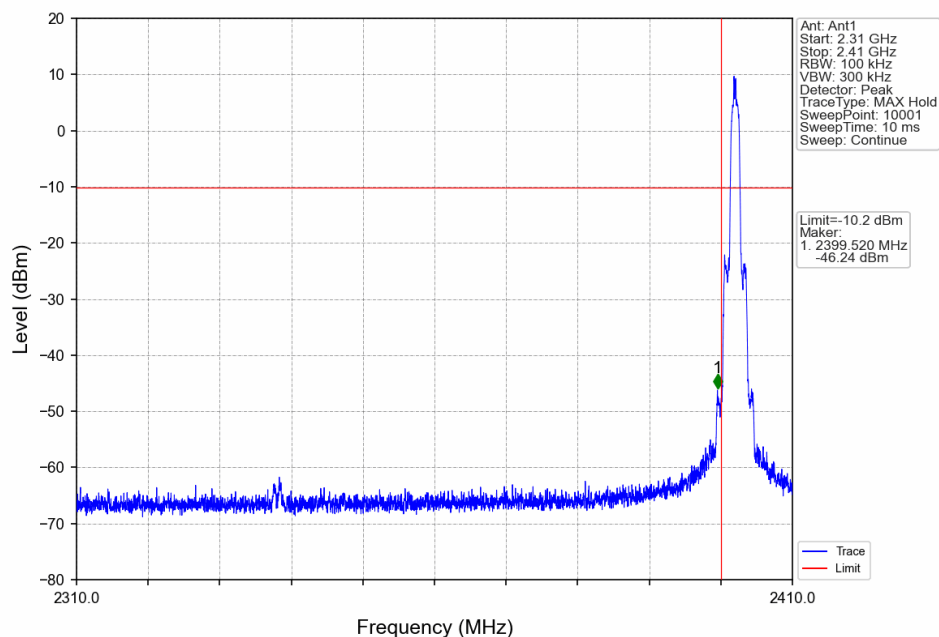
GFSK_DH5_HOPP_Ant1_NTNV



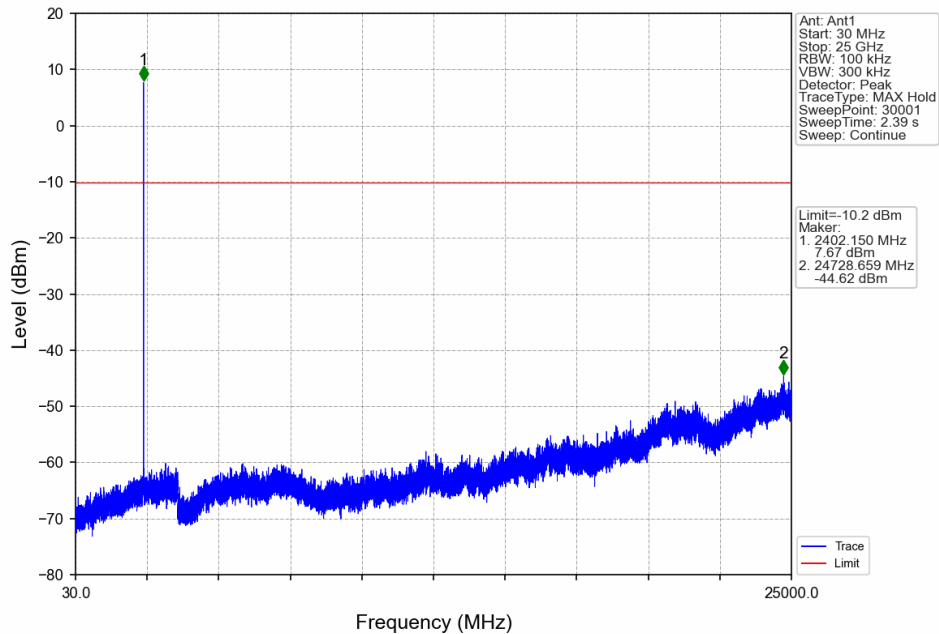
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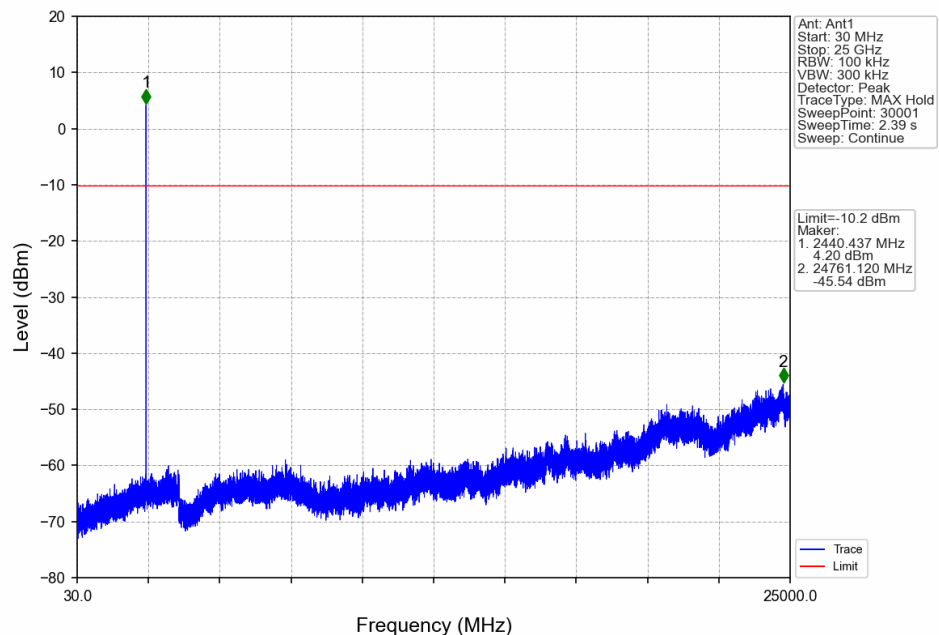
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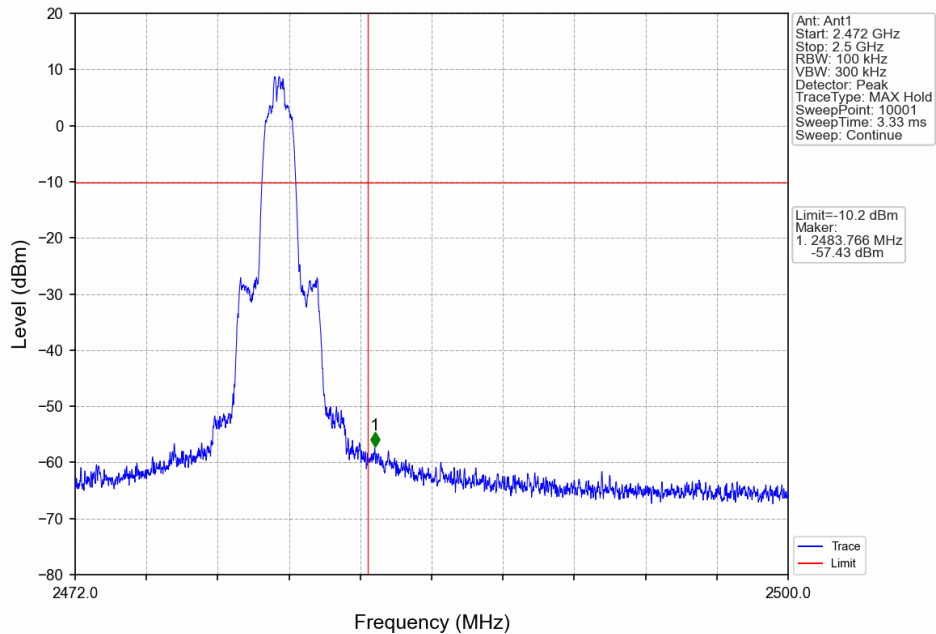
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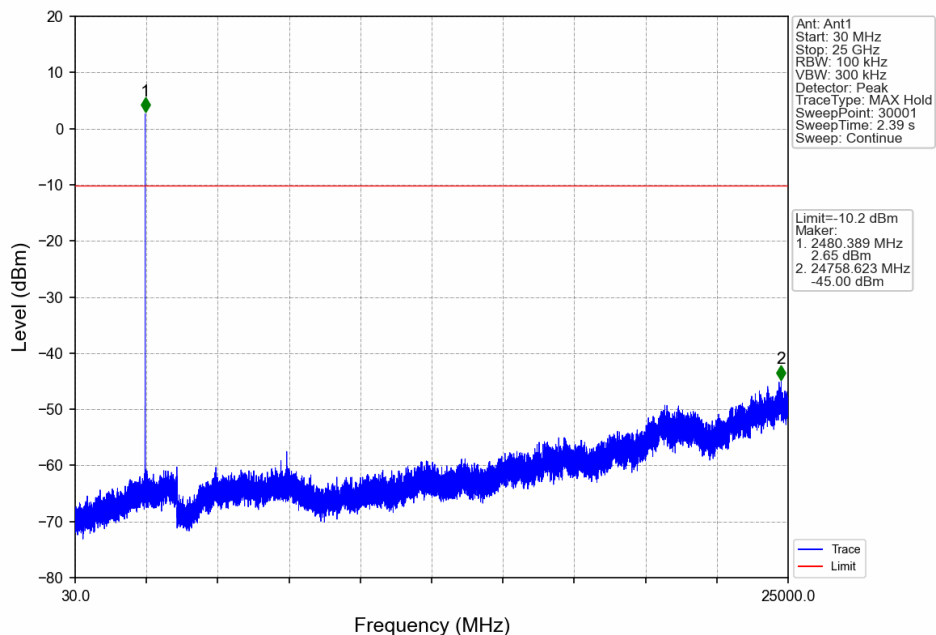
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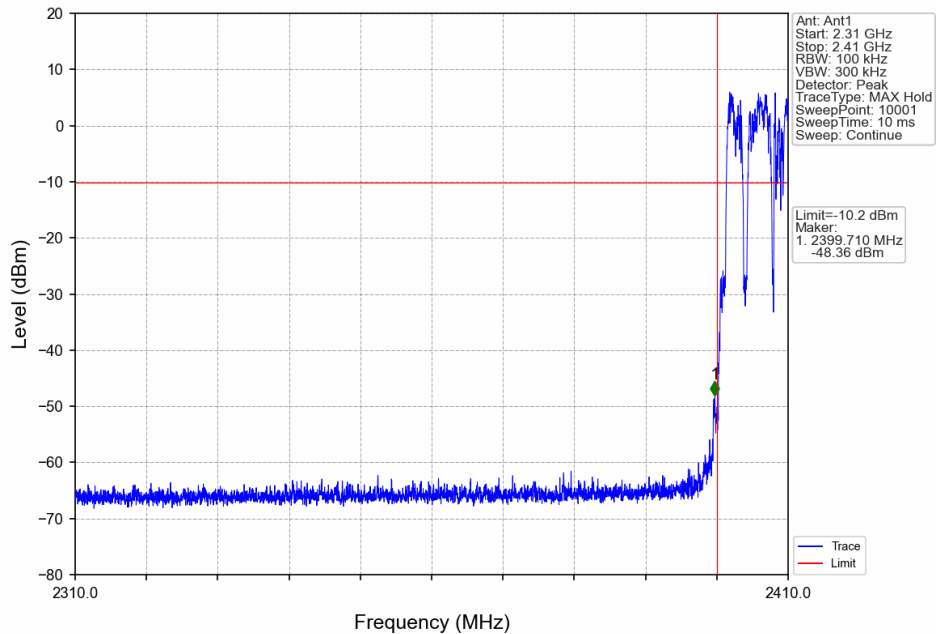
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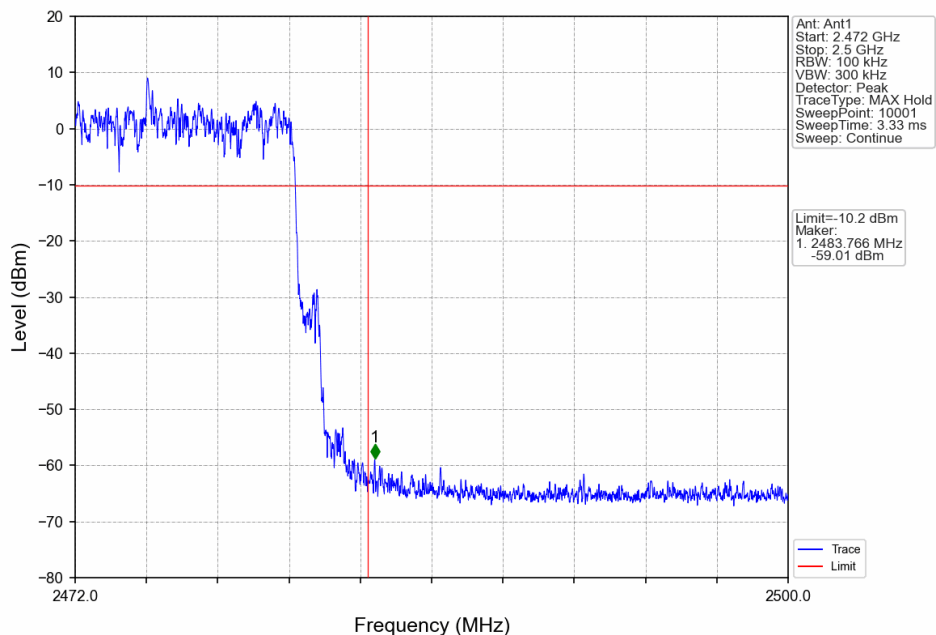
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



For 2.4G property:

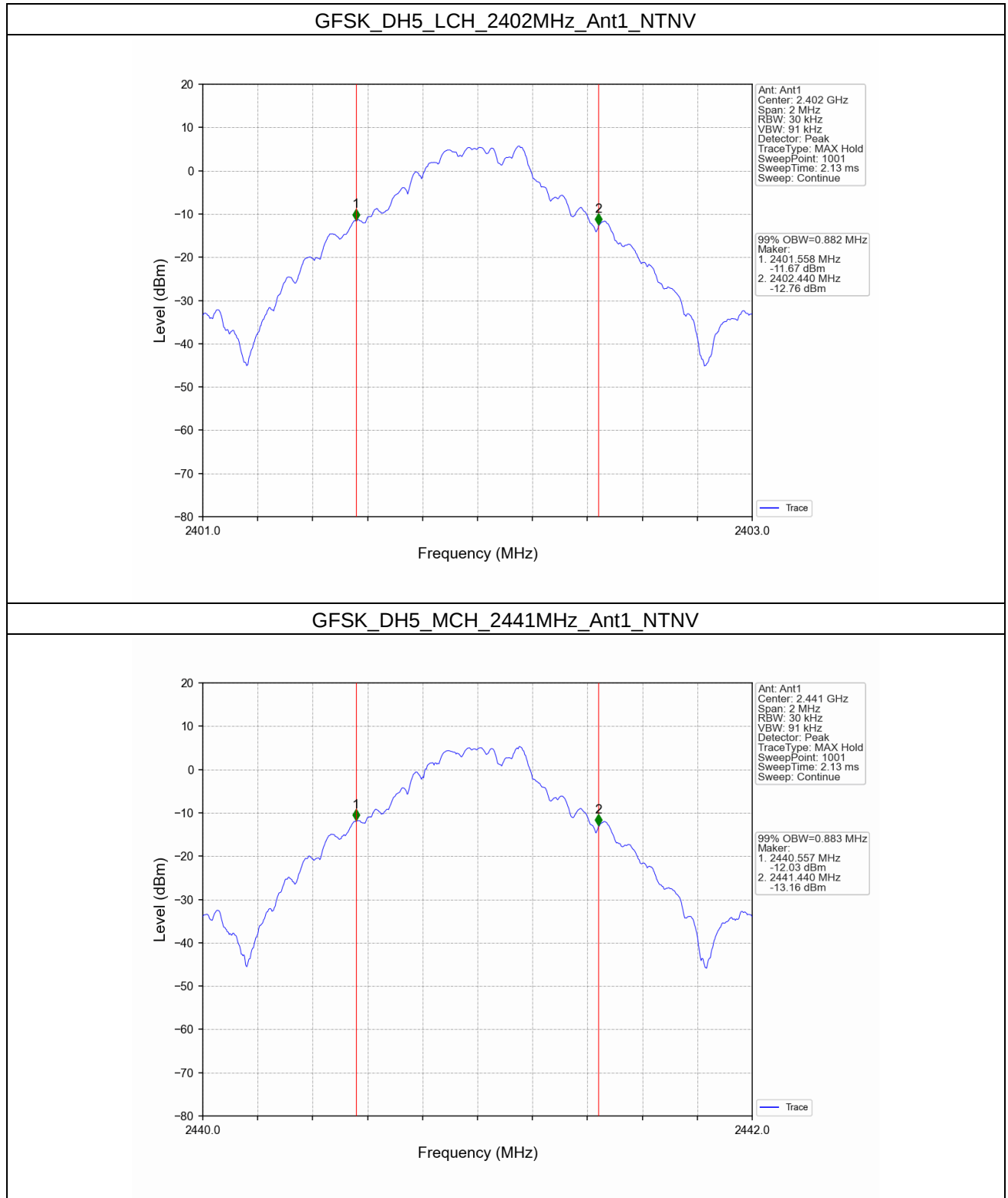
1. Bandwidth

1.1 OBW

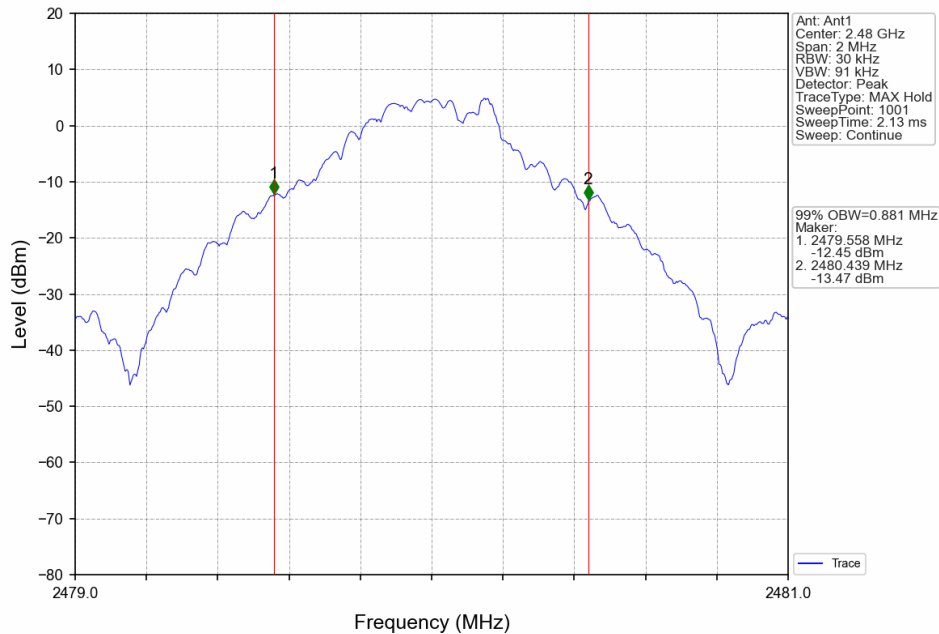
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.882	Pass
		2441	DH5	1	0.883	Pass
		2480	DH5	1	0.881	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.175	Pass
		2441	2DH5	1	1.171	Pass
		2480	2DH5	1	1.163	Pass

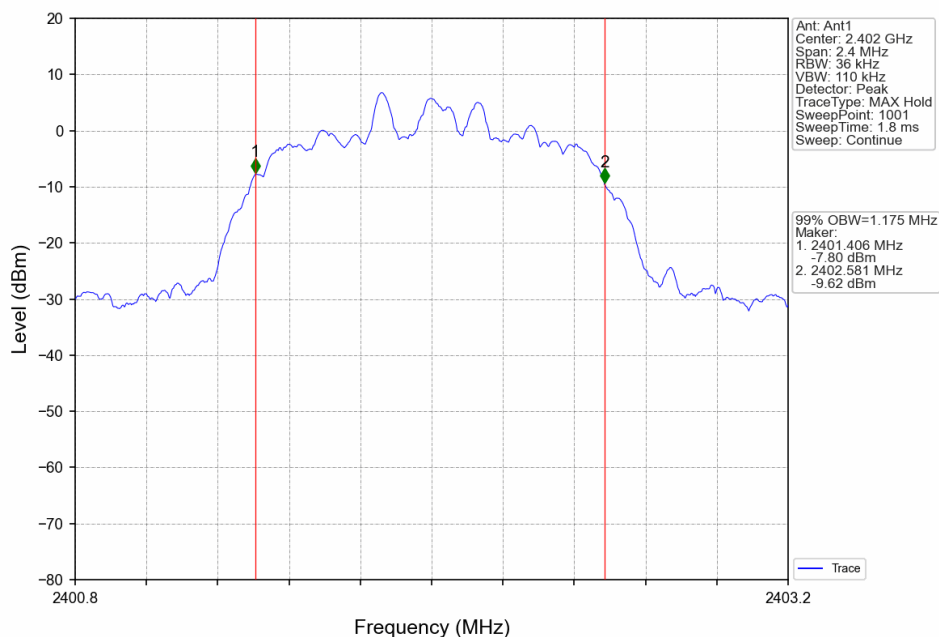
1.1.2 Test Graph



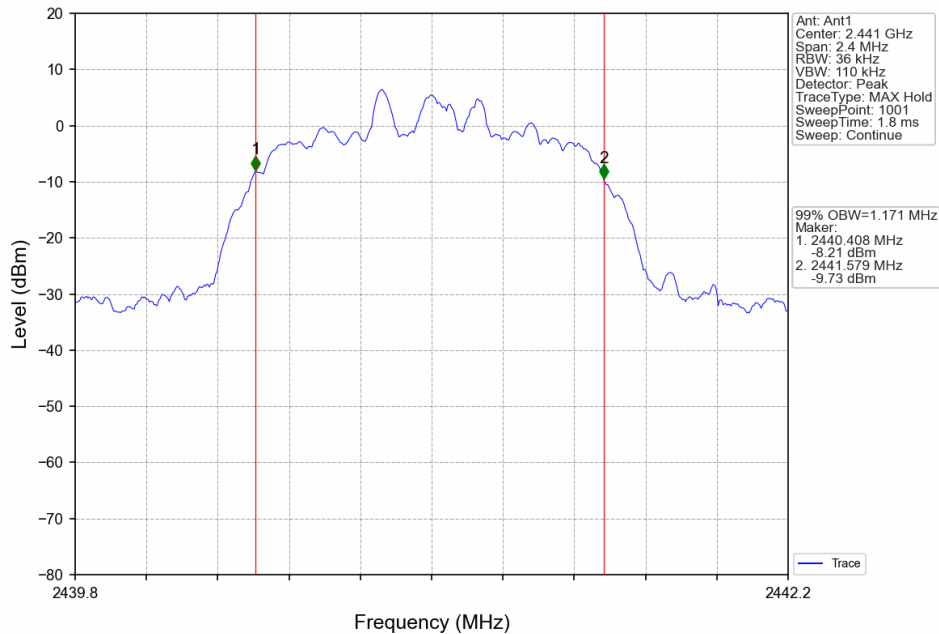
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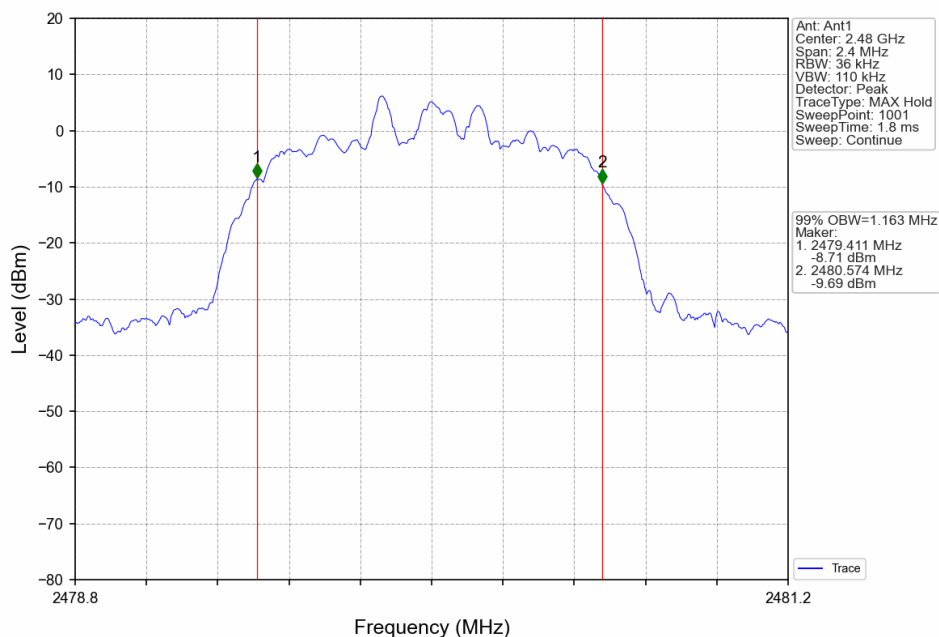
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

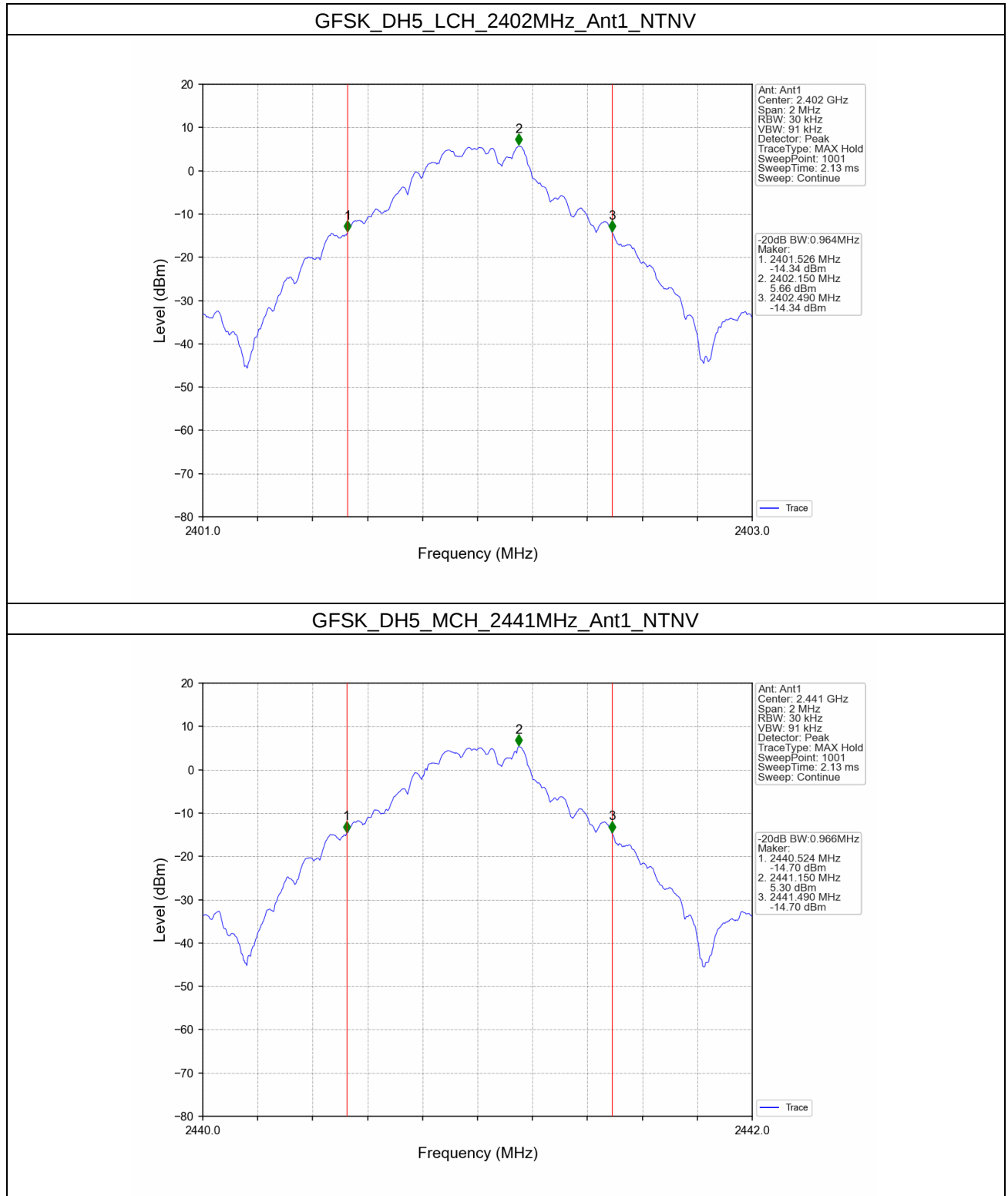


1.2 20dB BW

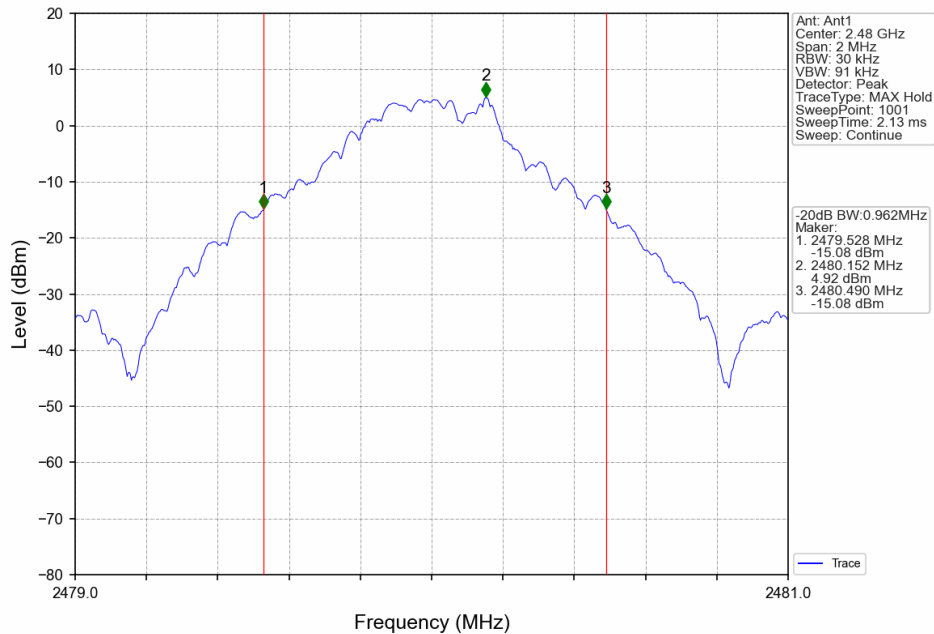
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.964	Pass
		2441	DH5	1	0.966	Pass
		2480	DH5	1	0.962	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.285	Pass
		2441	2DH5	1	1.281	Pass
		2480	2DH5	1	1.277	Pass

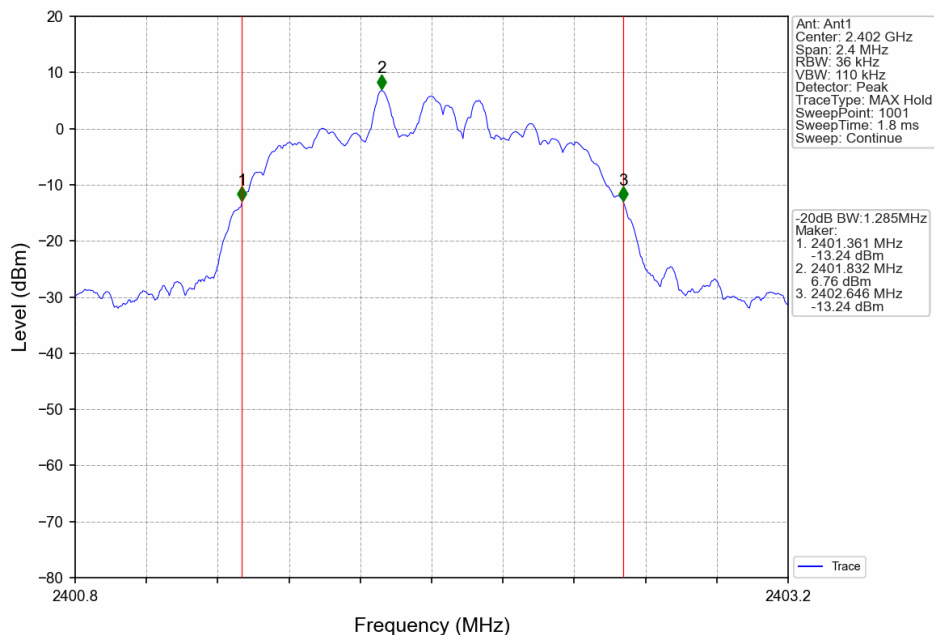
1.2.2 Test Graph



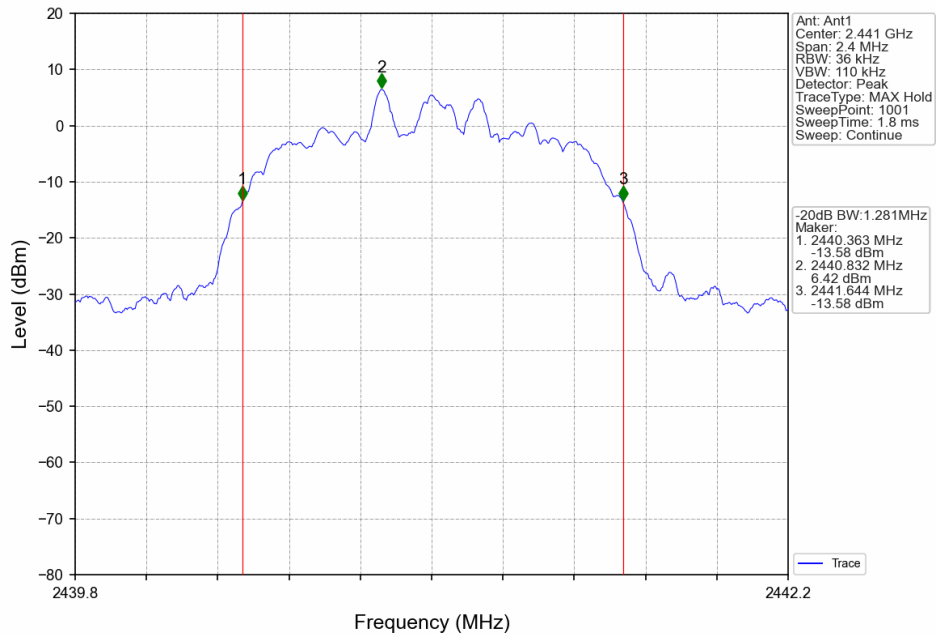
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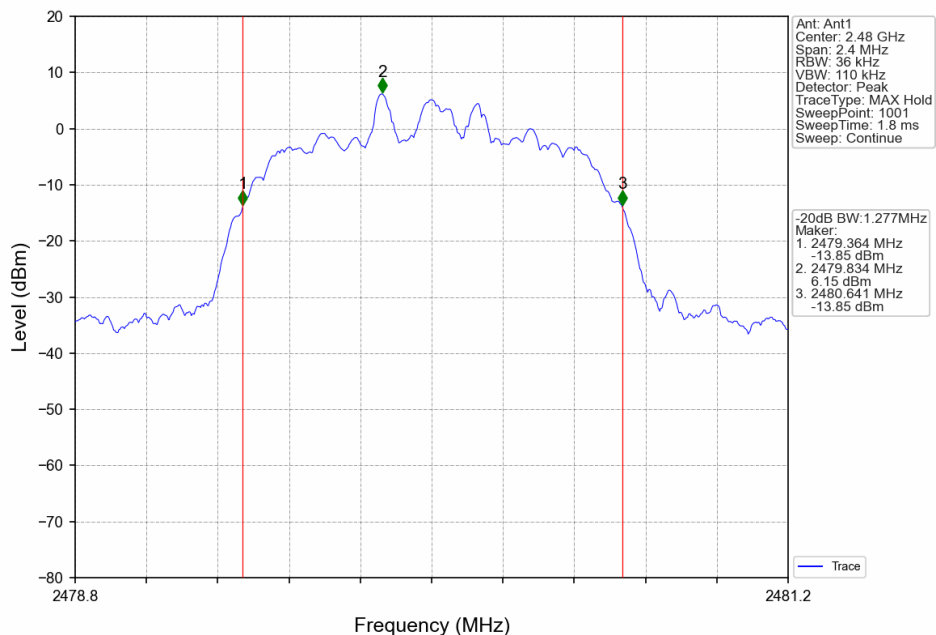
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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	8.43	<=30	Pass
		2441	DH5	8.08	<=30	Pass
		2480	DH5	7.80	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	8.43	<=20.97	Pass
		2441	2DH5	8.10	<=20.97	Pass
		2480	2DH5	7.83	<=20.97	Pass

Note1: Antenna Gain: 2.0dBi;



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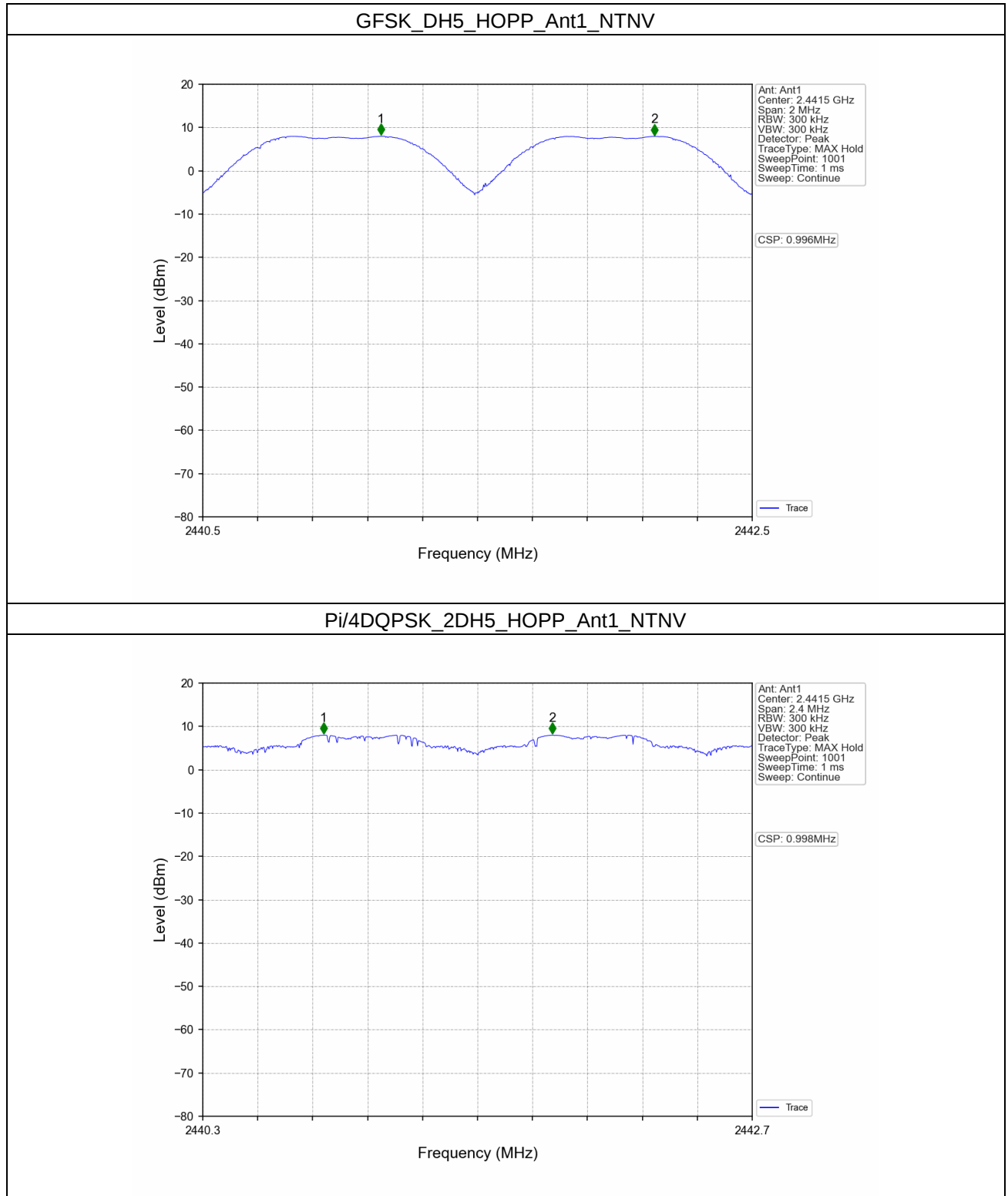
3. Carrier Frequency Separation

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	0.966	≥ 0.966	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.998	1.285	≥ 0.857	Pass

3.1.2 Test Graph



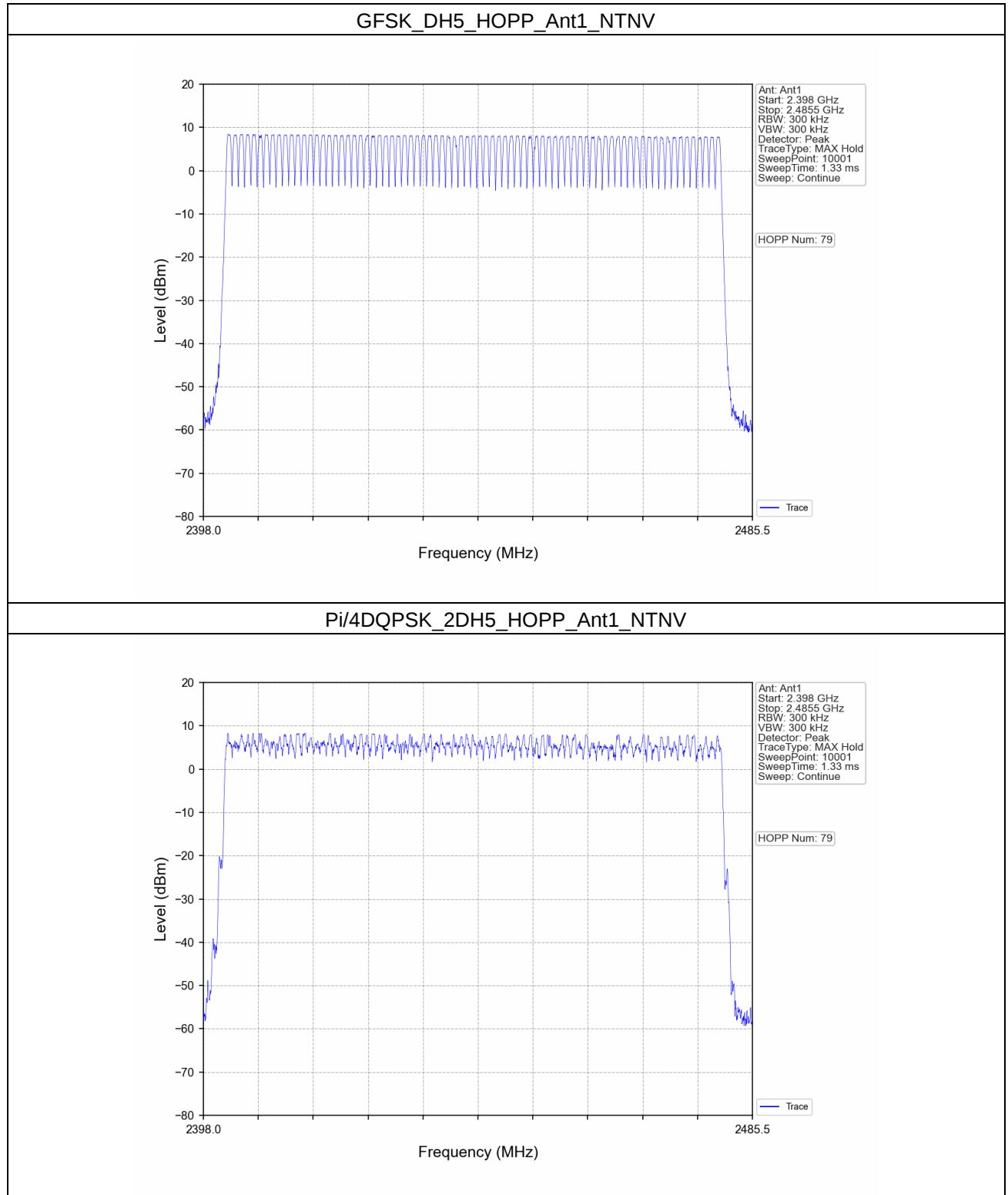
4. Number of Hopping Frequencies

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

4.1.2 Test Graph



5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

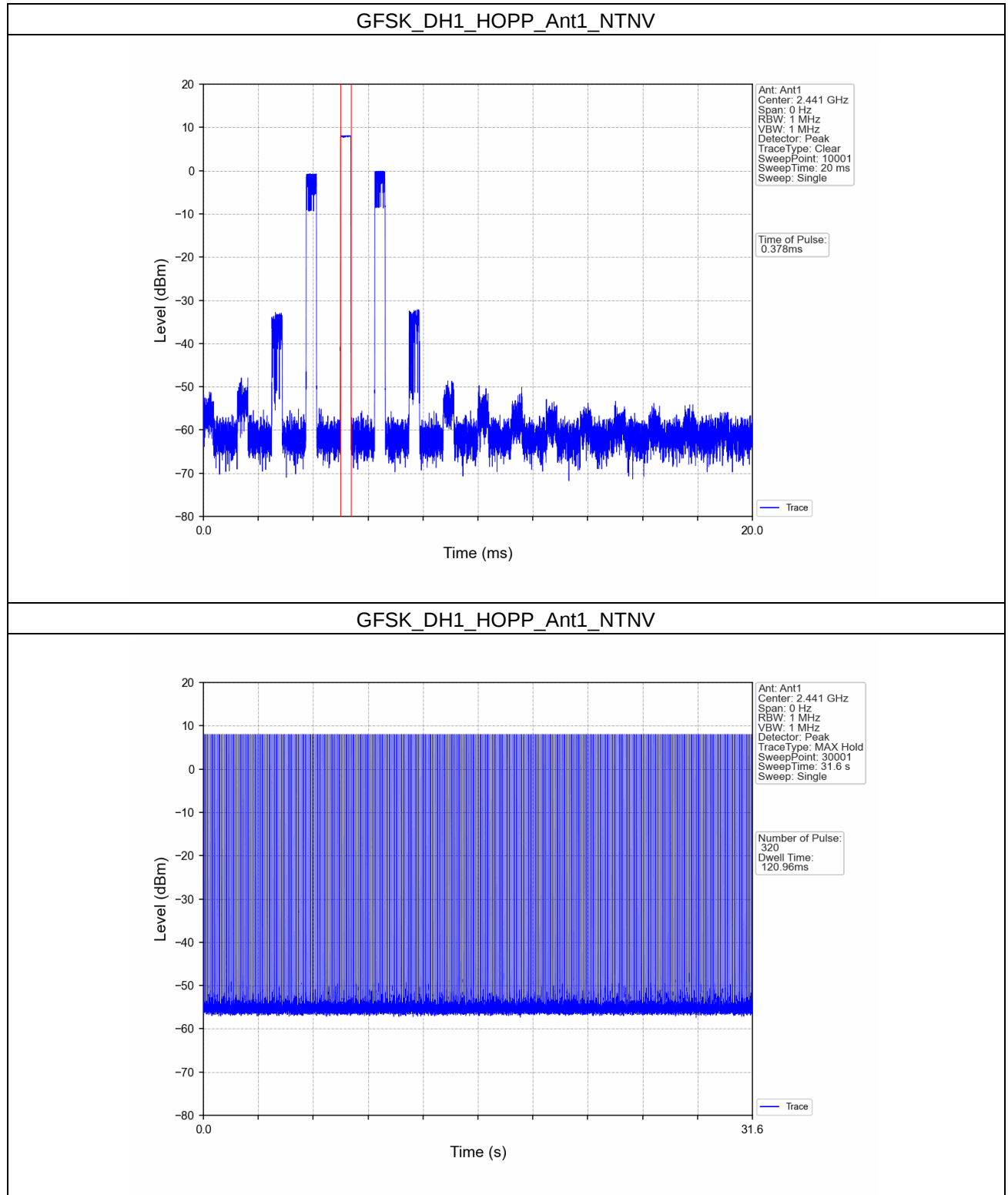
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.378	31.600	320	120.960	<=400	Pass
			DH3	1.632	31.600	160	261.120	<=400	Pass
			DH5	2.882	31.600	107	308.374	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.382	31.600	320	122.240	<=400	Pass
			2DH3	1.634	31.600	160	261.440	<=400	Pass
			2DH5	2.880	31.600	107	308.160	<=400	Pass



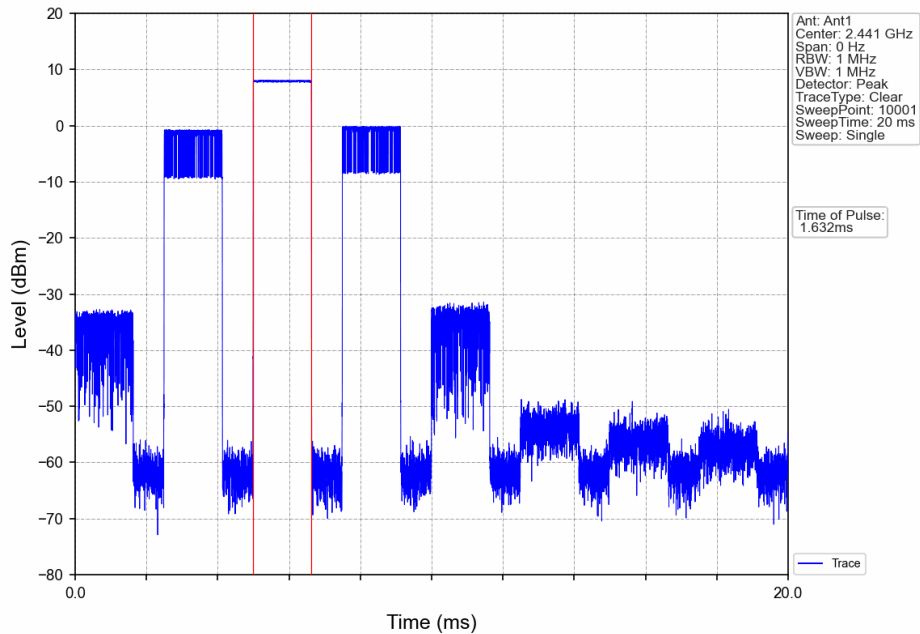
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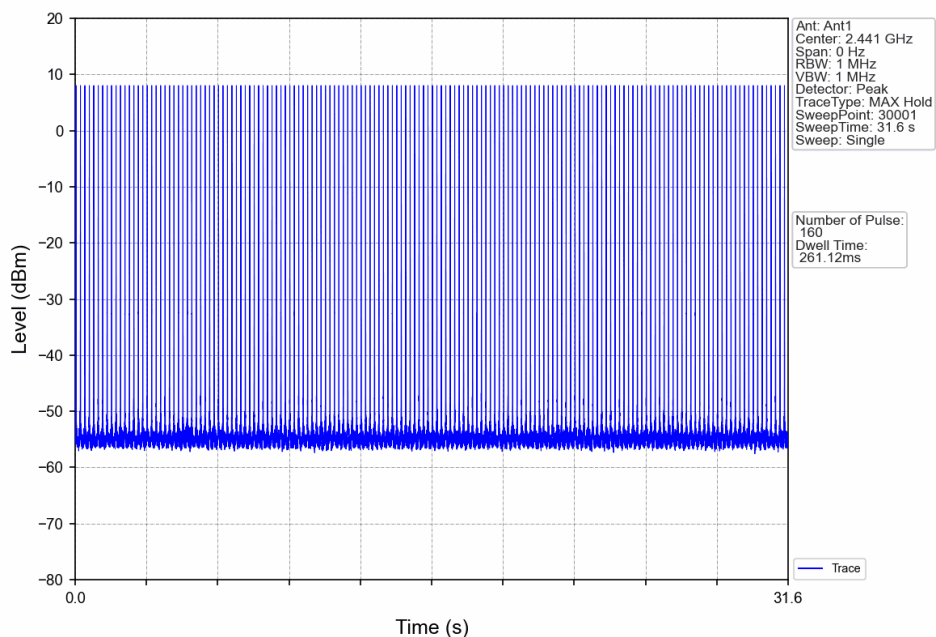
5.1.2 Test Graph



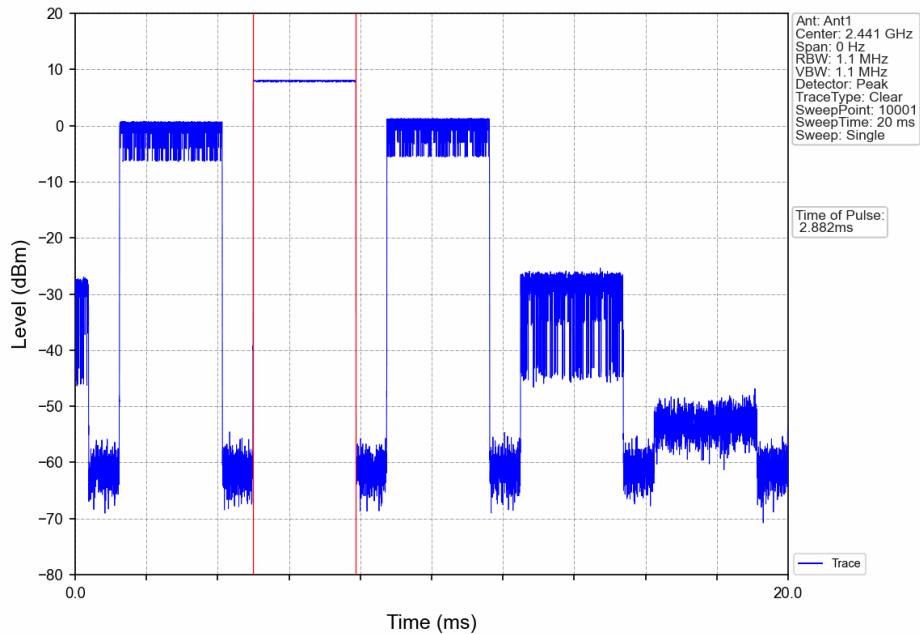
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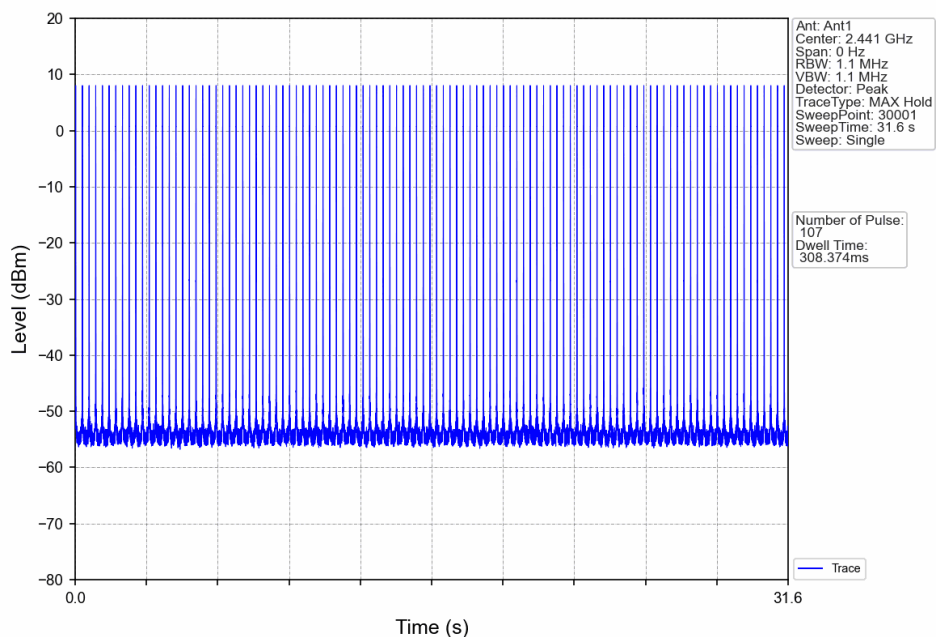
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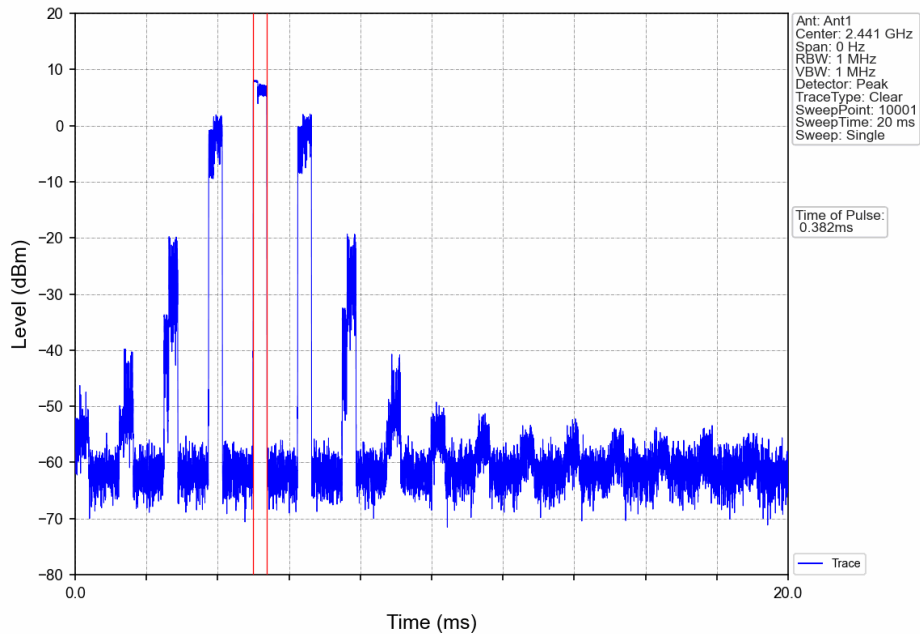
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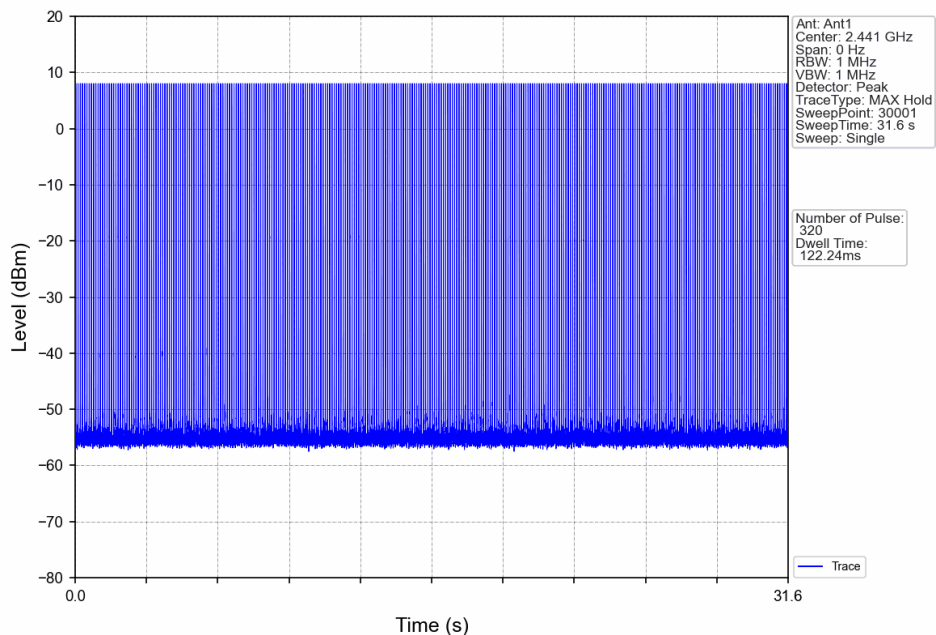
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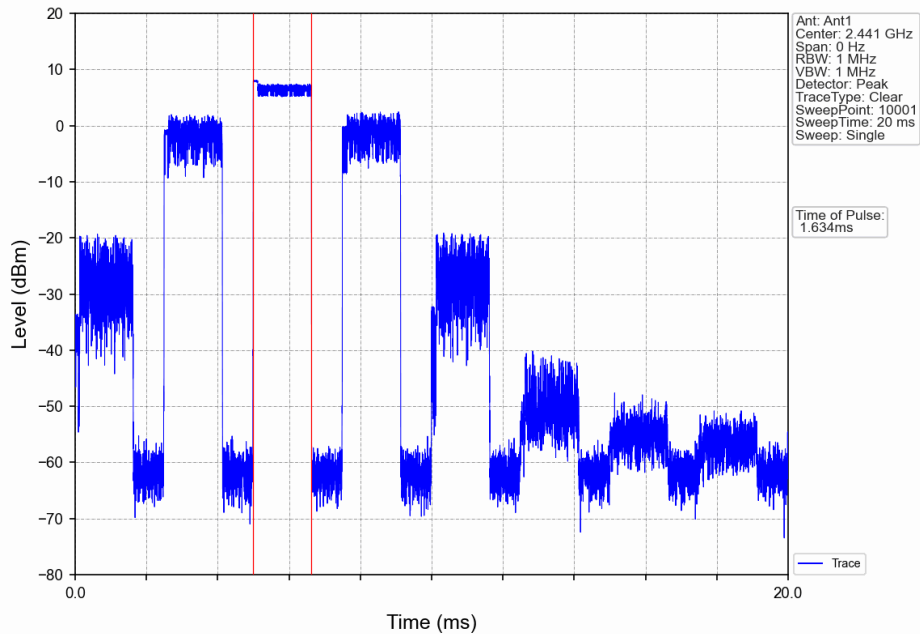
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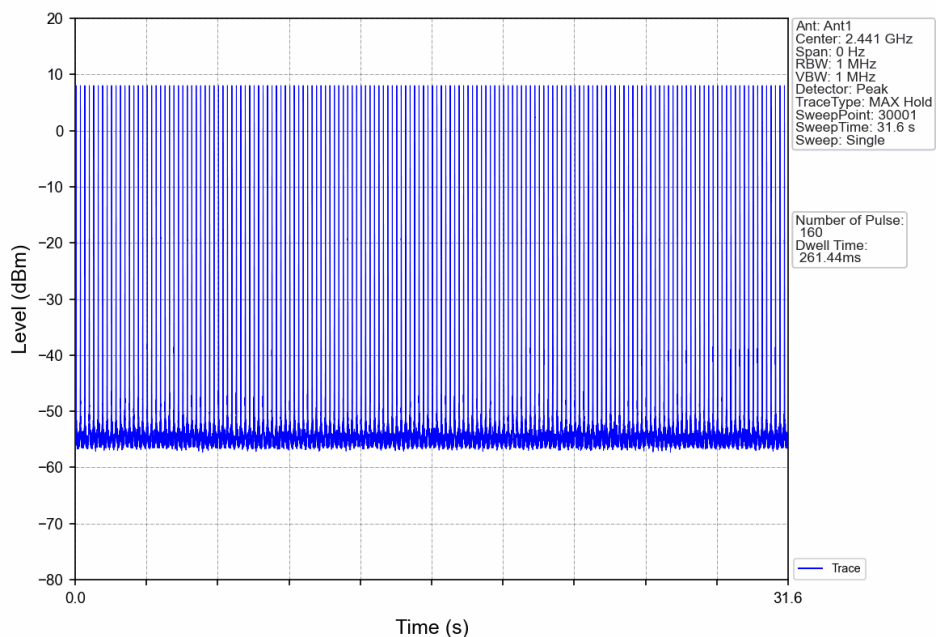
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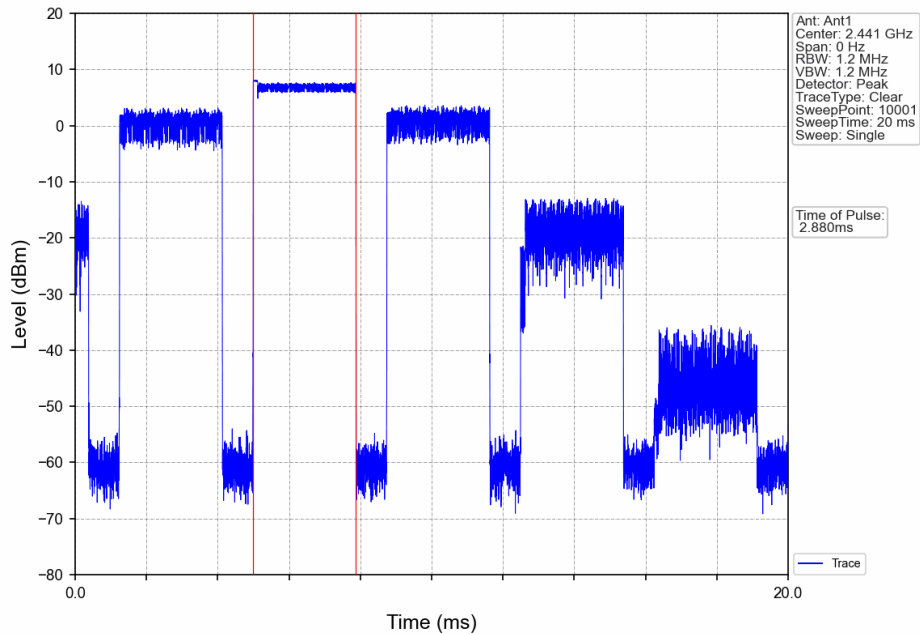
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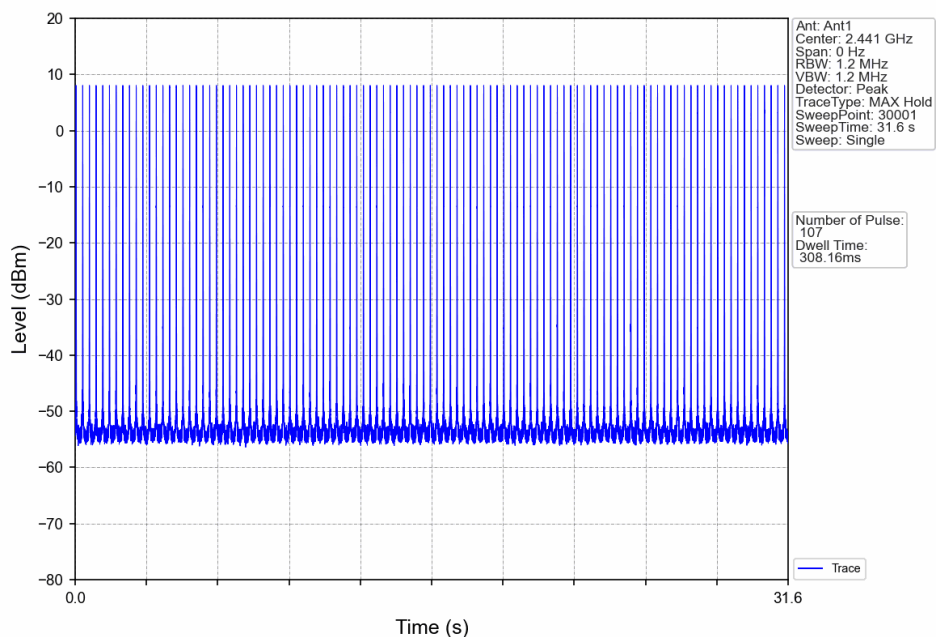
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

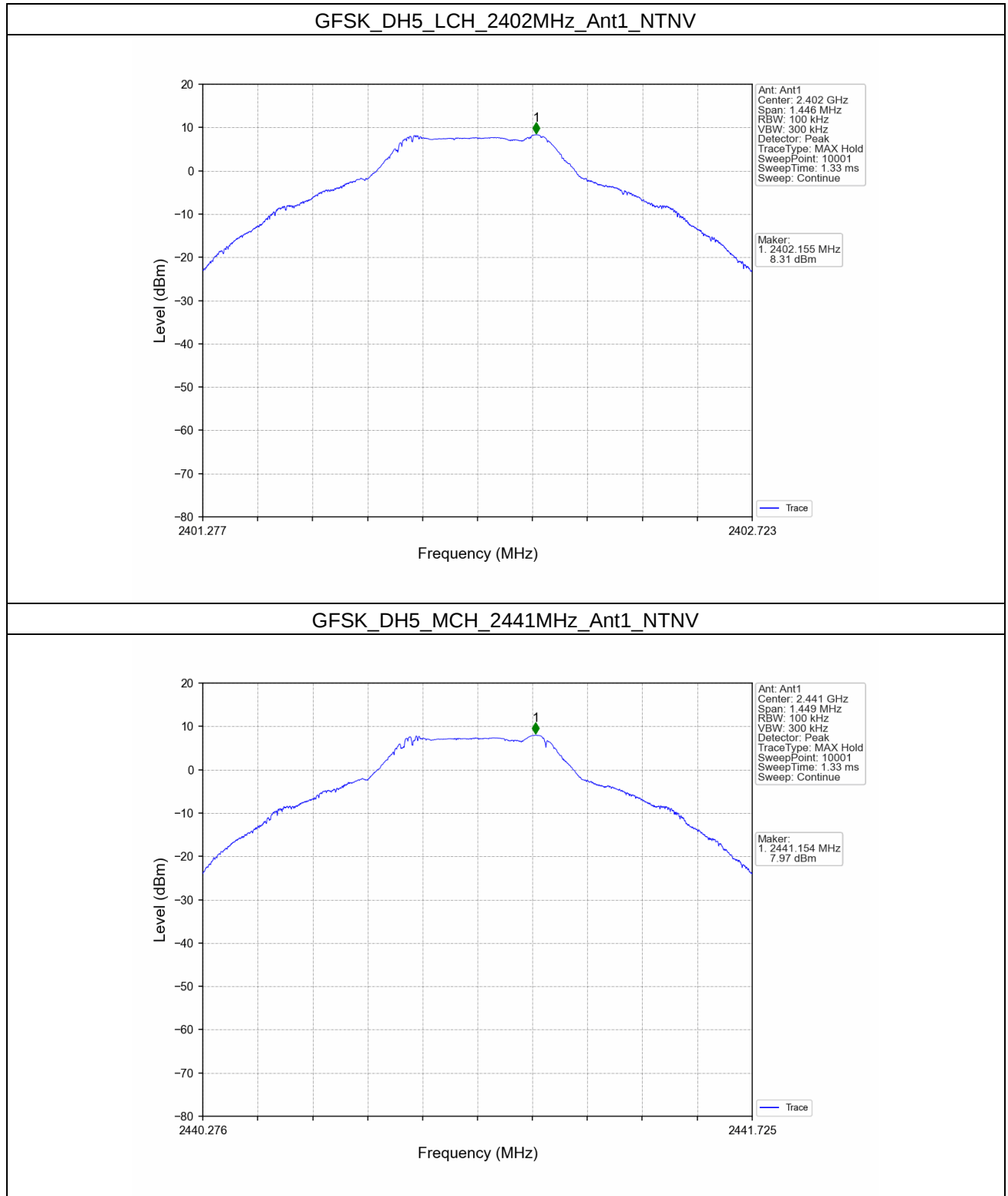
6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	8.31
		2441	DH5	1	7.97
		2480	DH5	1	7.70
Pi/4DQPSK	SISO	2402	2DH5	1	8.30
		2441	2DH5	1	7.92
		2480	2DH5	1	7.71

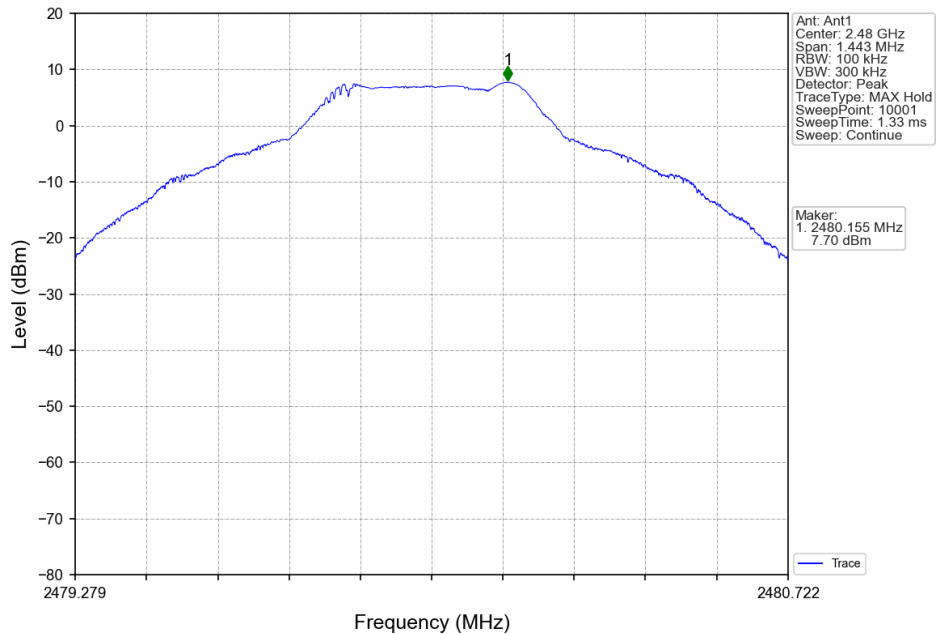
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.

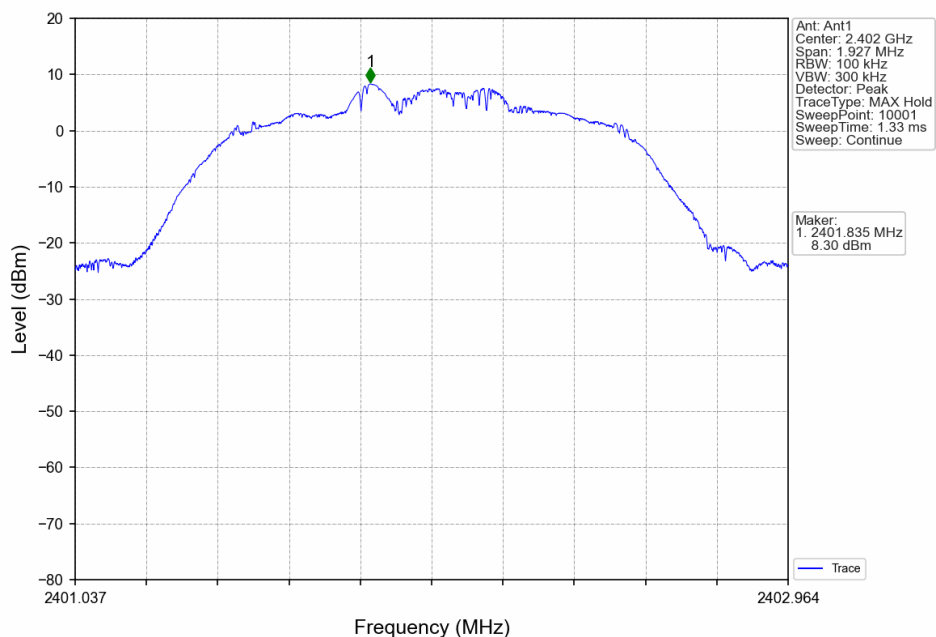
6.1.2 Test Graph



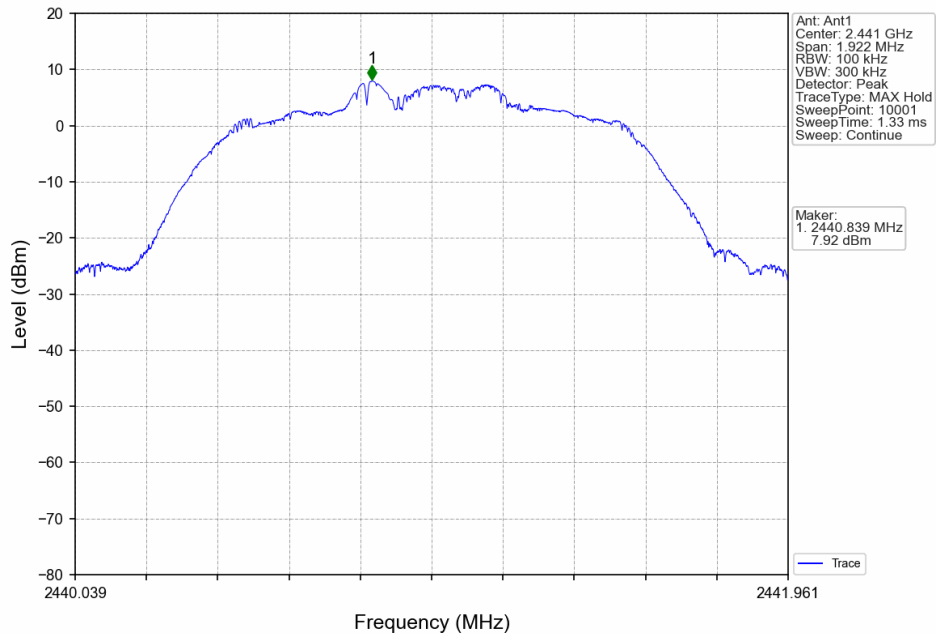
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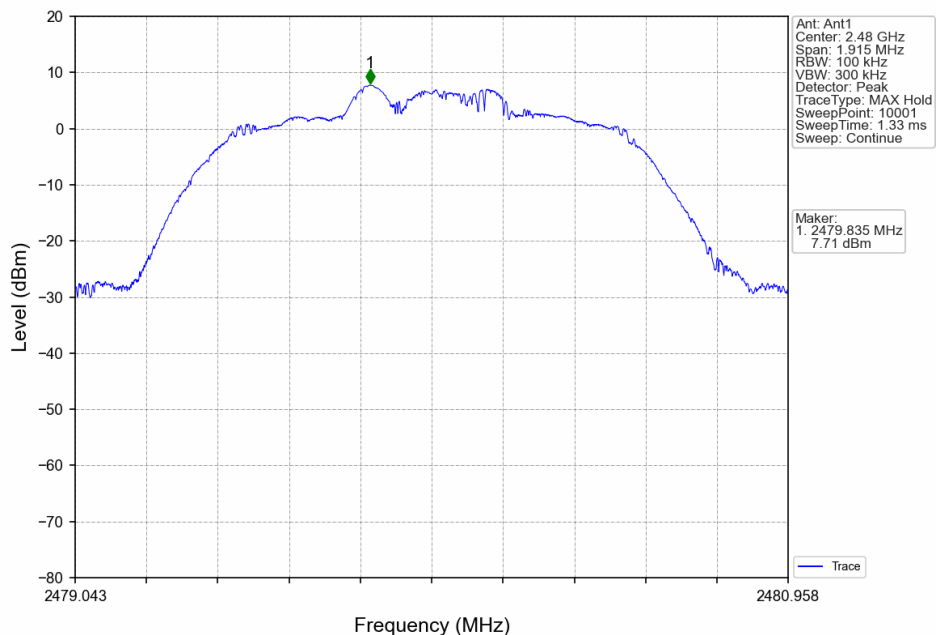
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



6.2 CSE

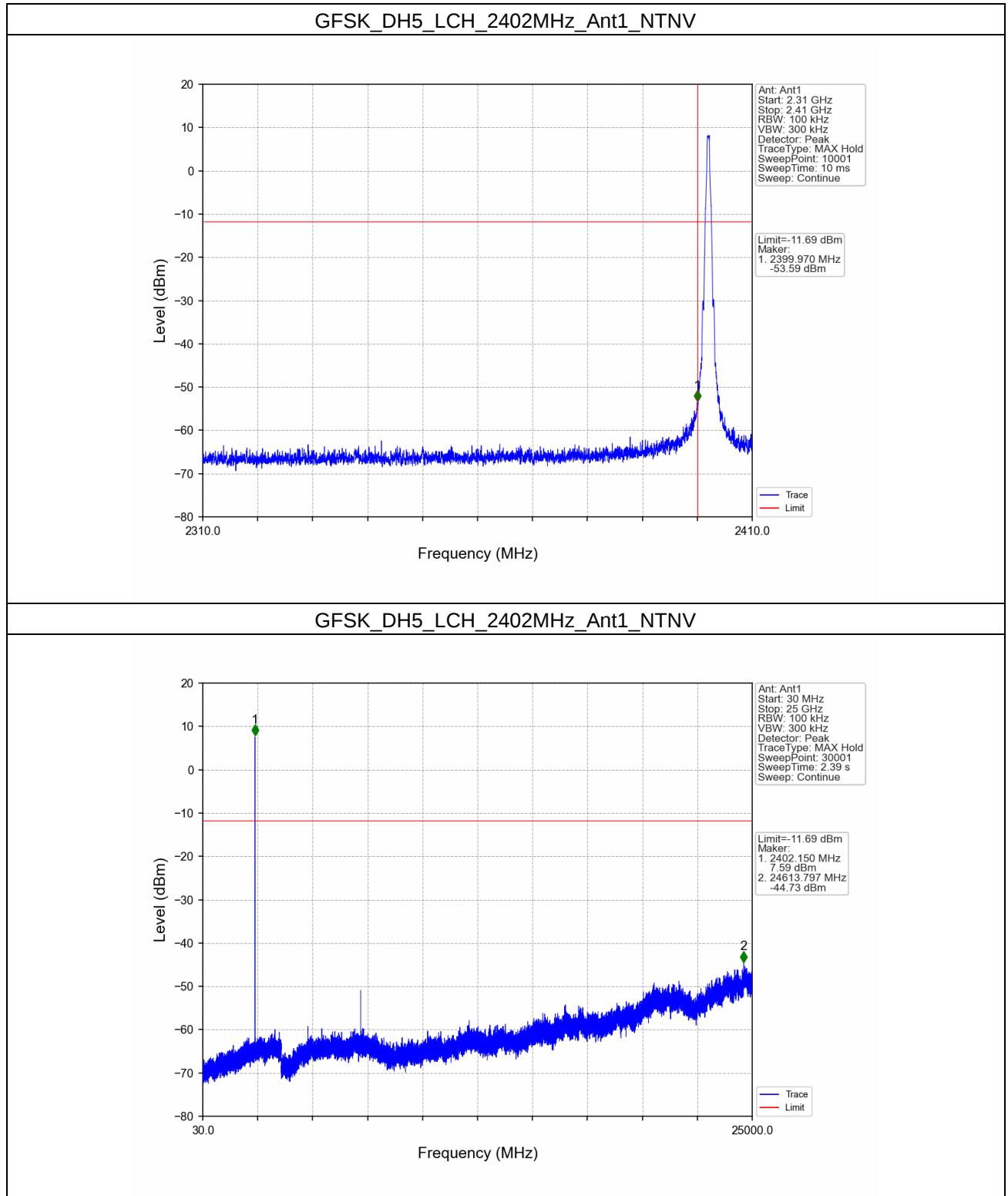
6.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	8.31	-11.69	Pass
		2441	DH5	1	8.31	-11.69	Pass
		2480	DH5	1	8.31	-11.69	Pass
		HOPP	DH5	1	8.31	-11.69	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	8.30	-11.70	Pass
		2441	2DH5	1	8.30	-11.70	Pass
		2480	2DH5	1	8.30	-11.70	Pass
		HOPP	2DH5	1	8.30	-11.70	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

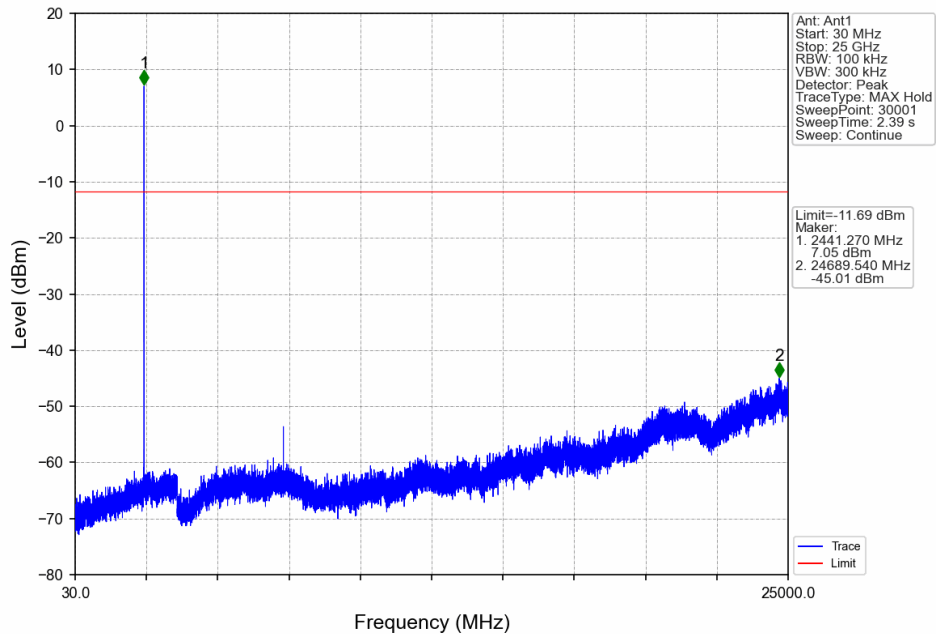


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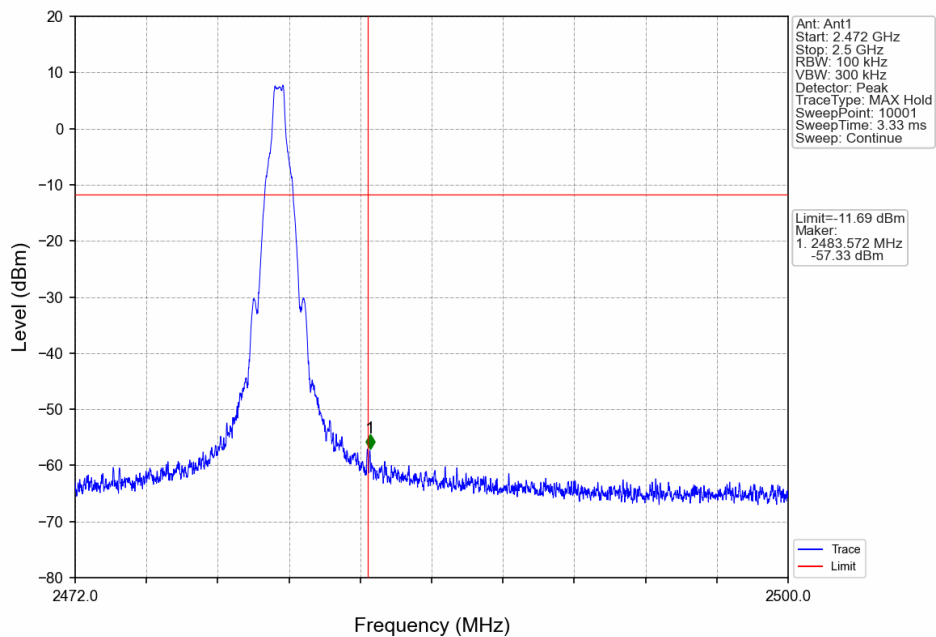
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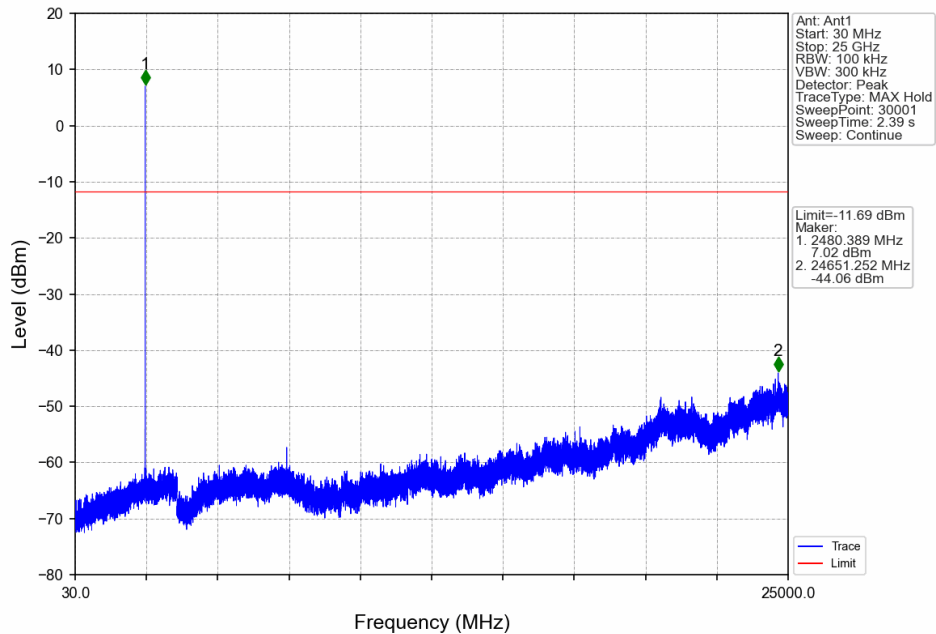
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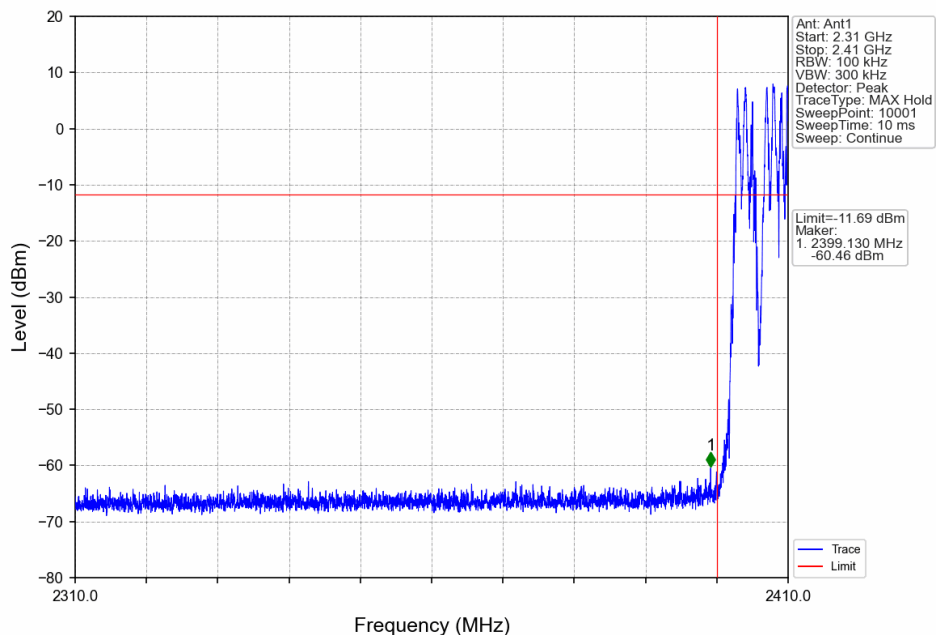
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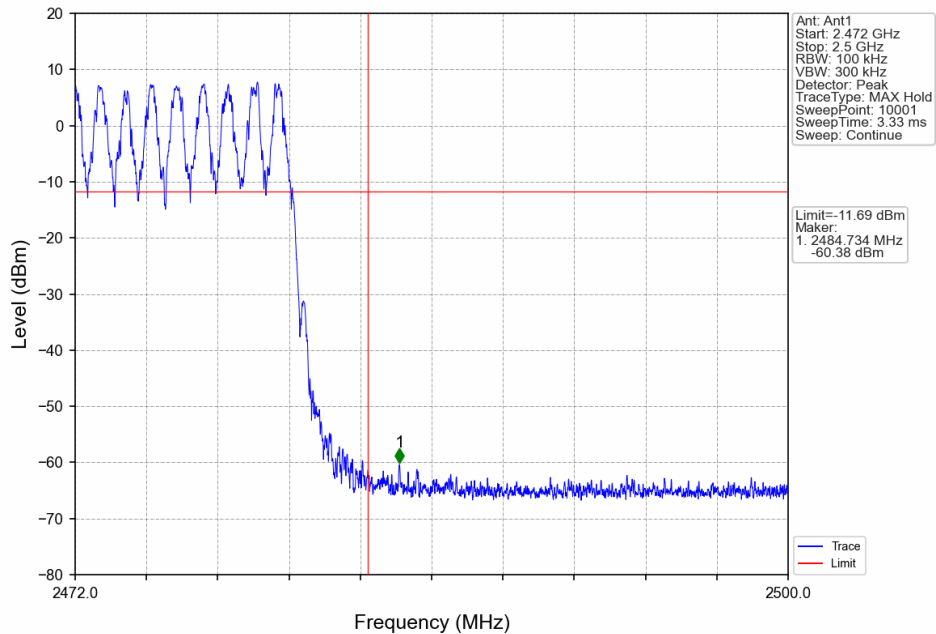
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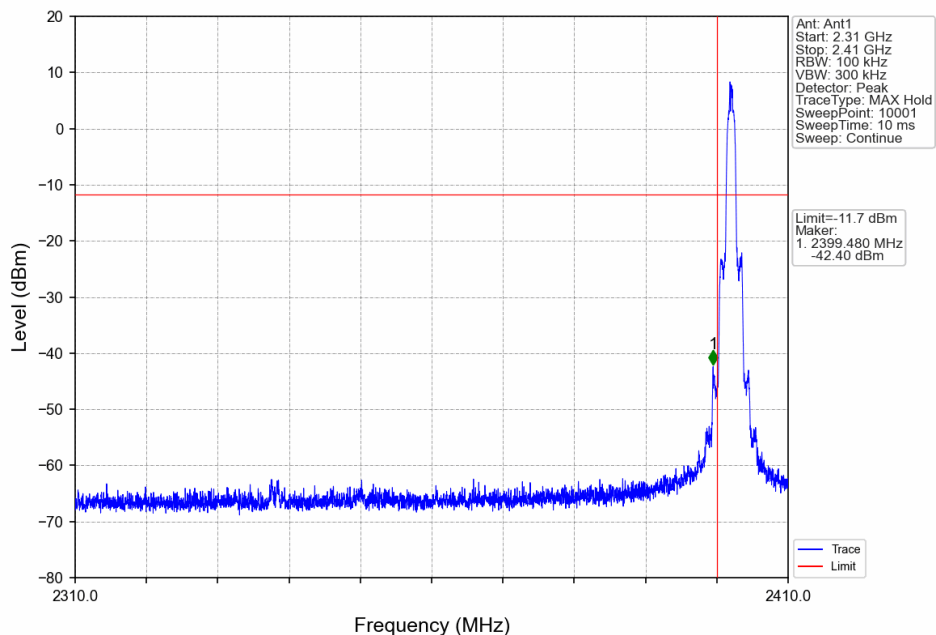
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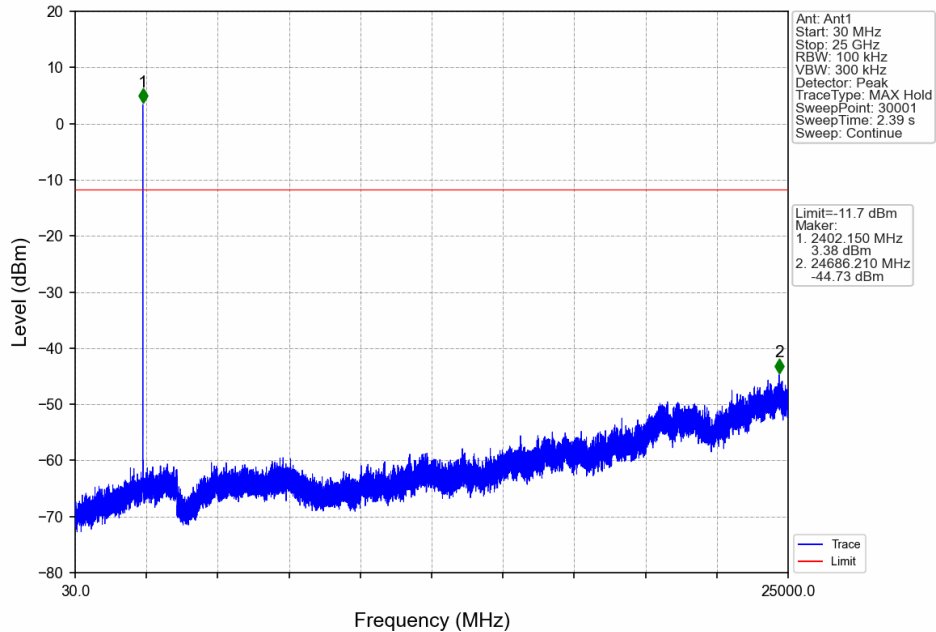
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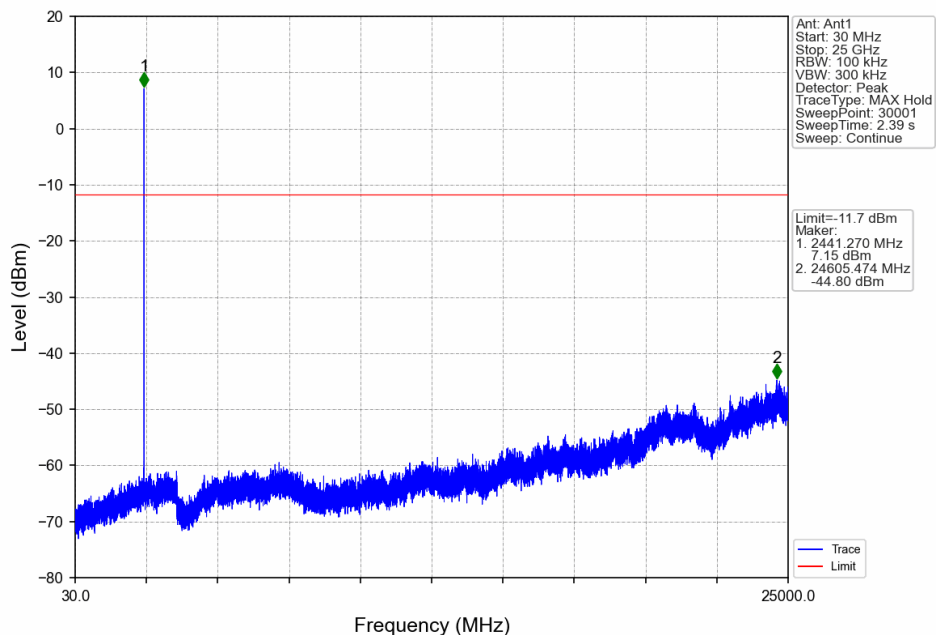
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



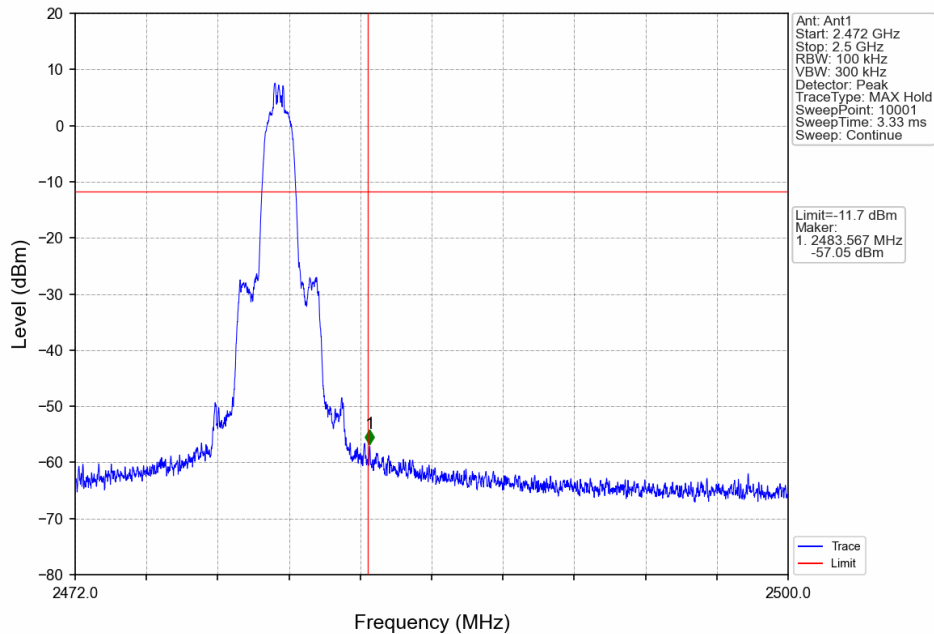
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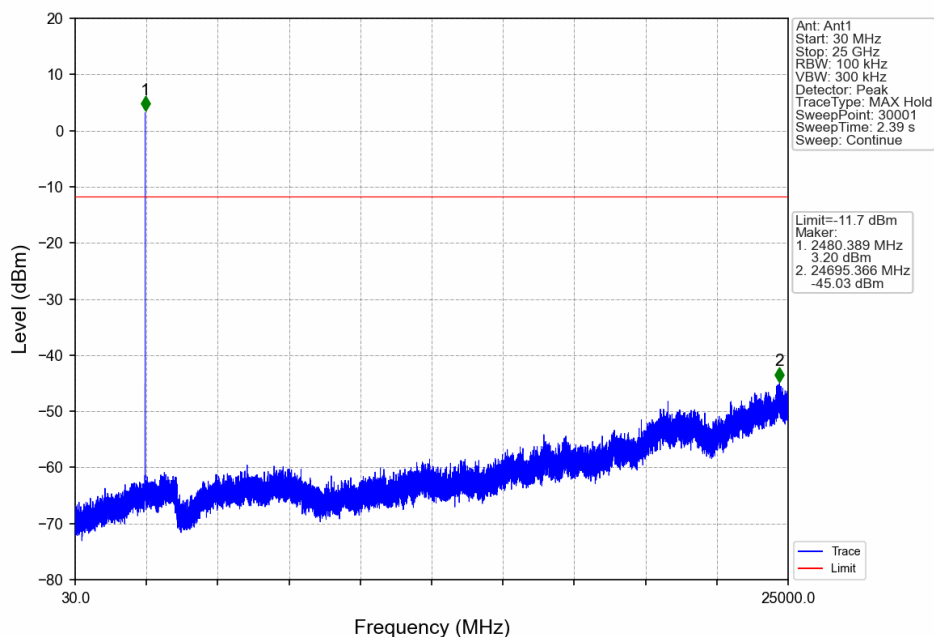
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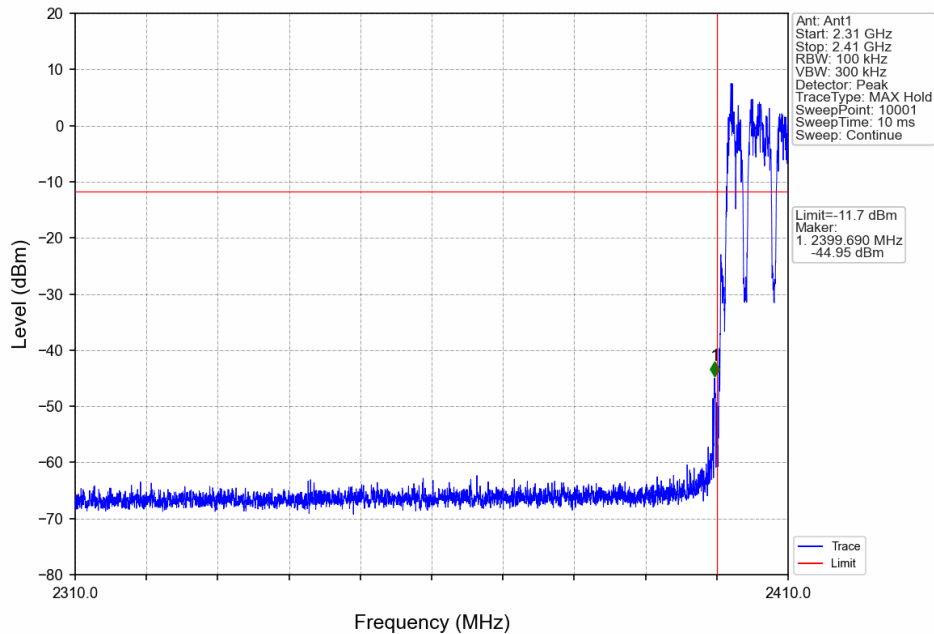
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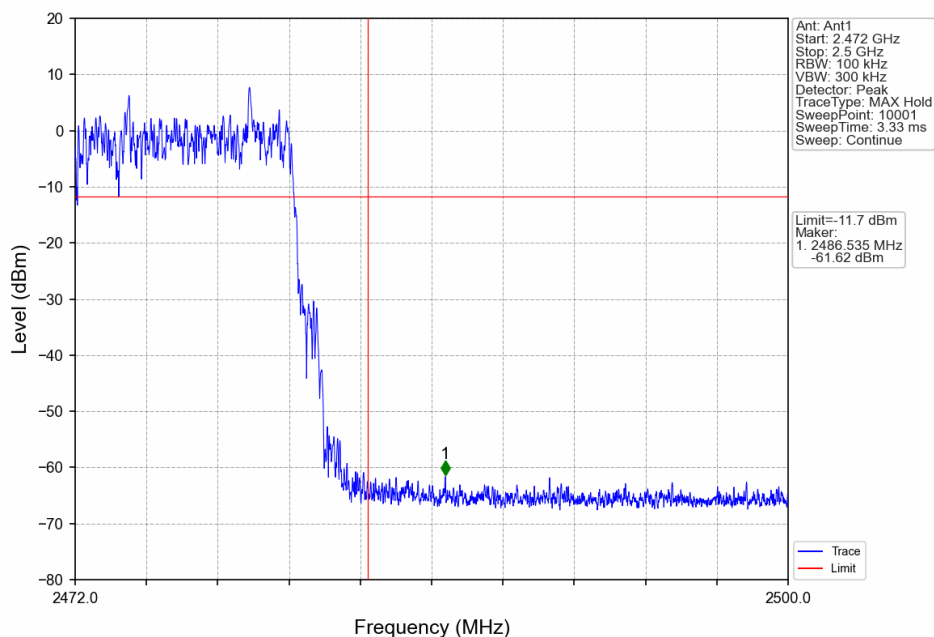
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



- End of the Report -