

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200424002

Page: 101 of 164

7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	15.09	-4.91	Pass
		2441	DH5	1	15.09	-4.91	Pass
		2480	DH5	1	15.09	-4.91	Pass
		HOPP	DH5	1	15.09	-4.91	Pass
					15.09	-4.91	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	15.07	-4.93	Pass
		2441	2DH5	1	15.07	-4.93	Pass
		2480	2DH5	1	15.07	-4.93	Pass
		HOPP	2DH5	1	15.07	-4.93	Pass
					15.07	-4.93	Pass
8DPSK	SISO	2402	3DH5	1	15.24	-4.76	Pass
		2441	3DH5	1	15.24	-4.76	Pass
		2480	3DH5	1	15.24	-4.76	Pass
		HOPP	3DH5	1	15.24	-4.76	Pass
					15.24	-4.76	Pass



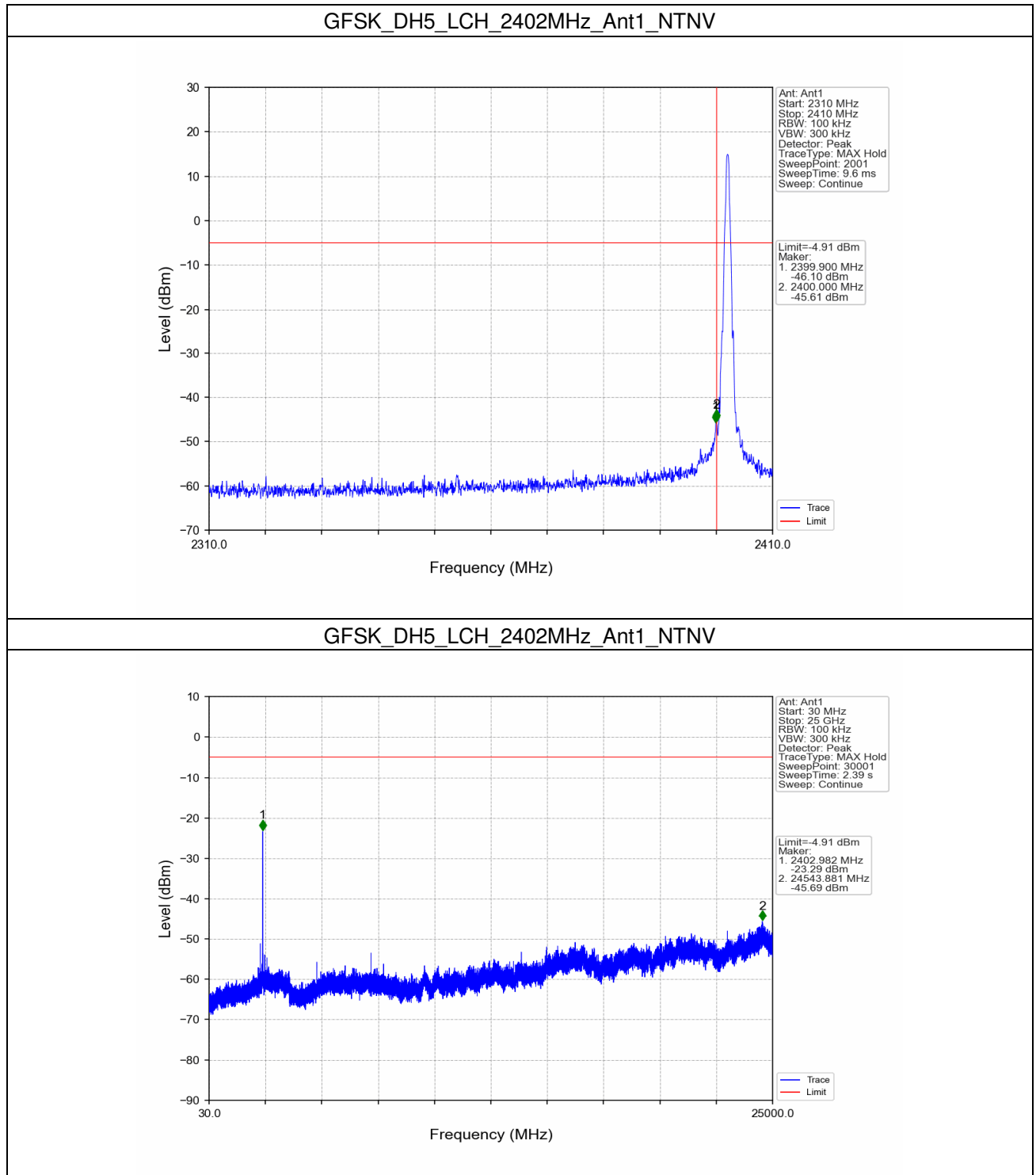
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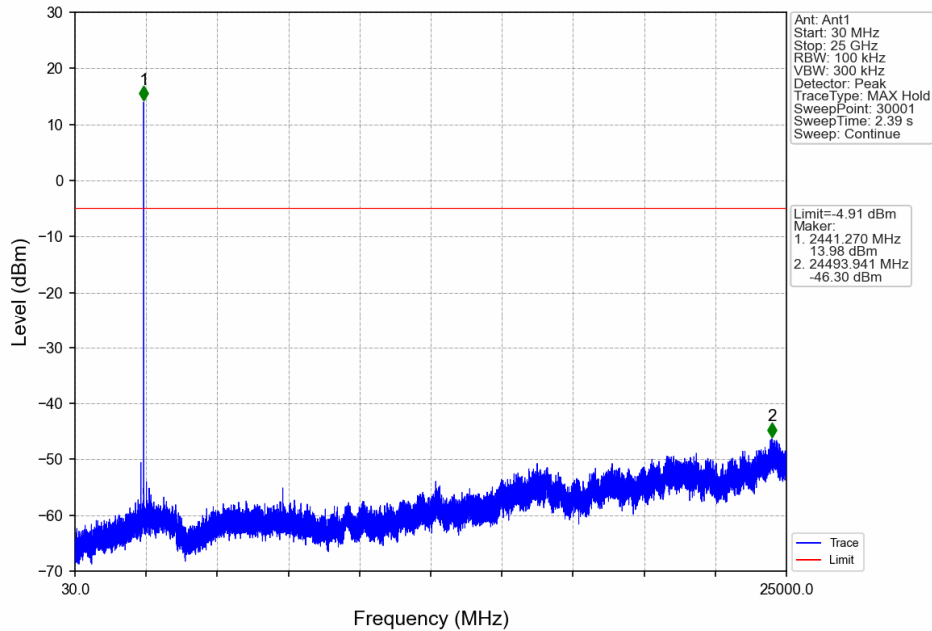
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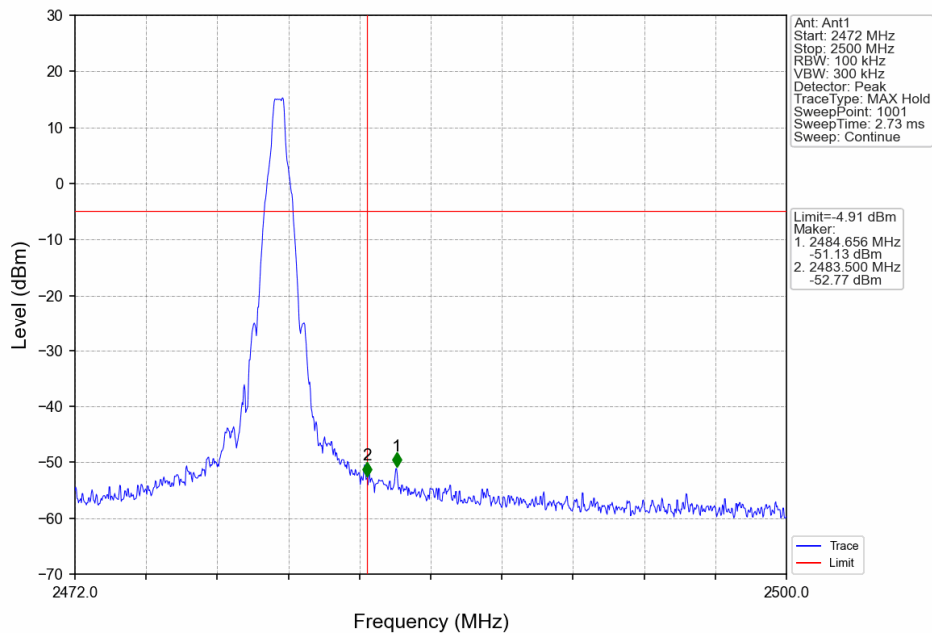
7.2.2 Test Graph



GFSK_DH5_MCH_2441MHz_Ant1_NTNV



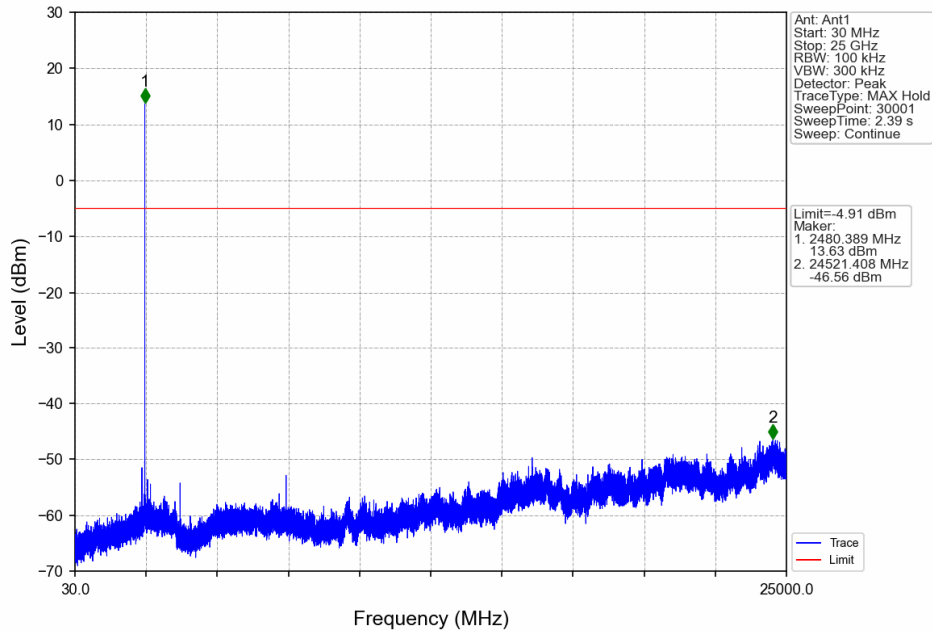
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



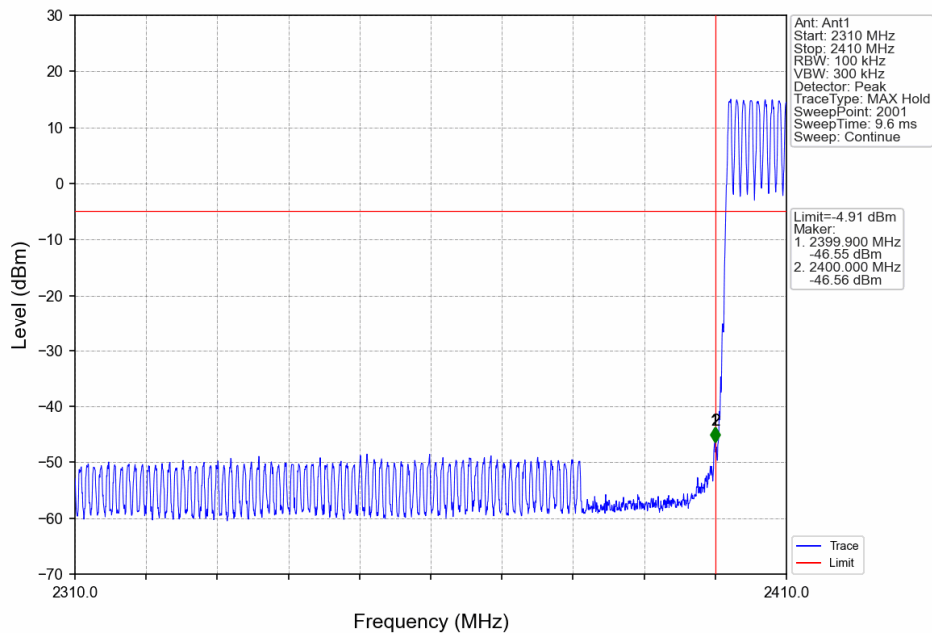
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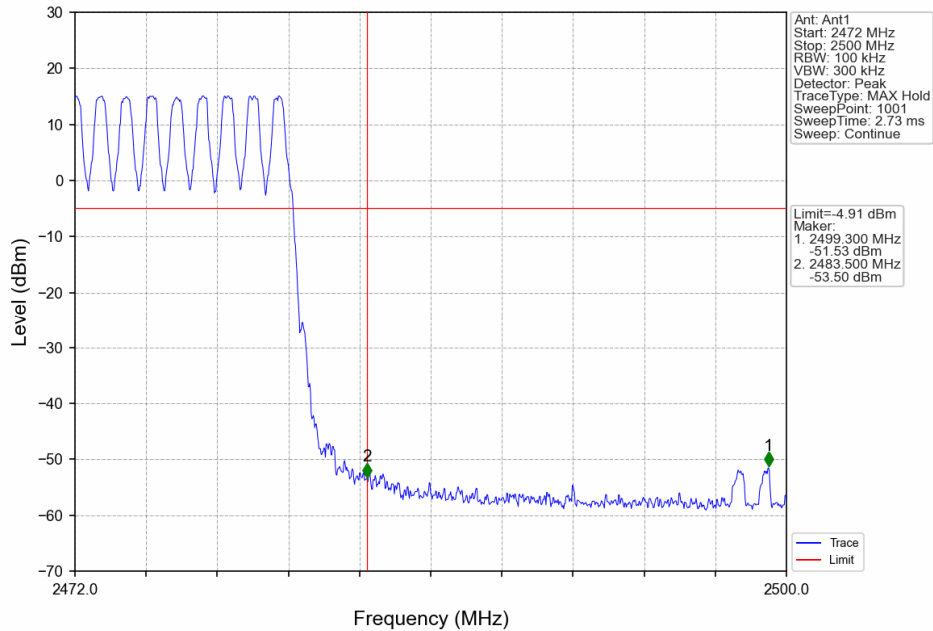
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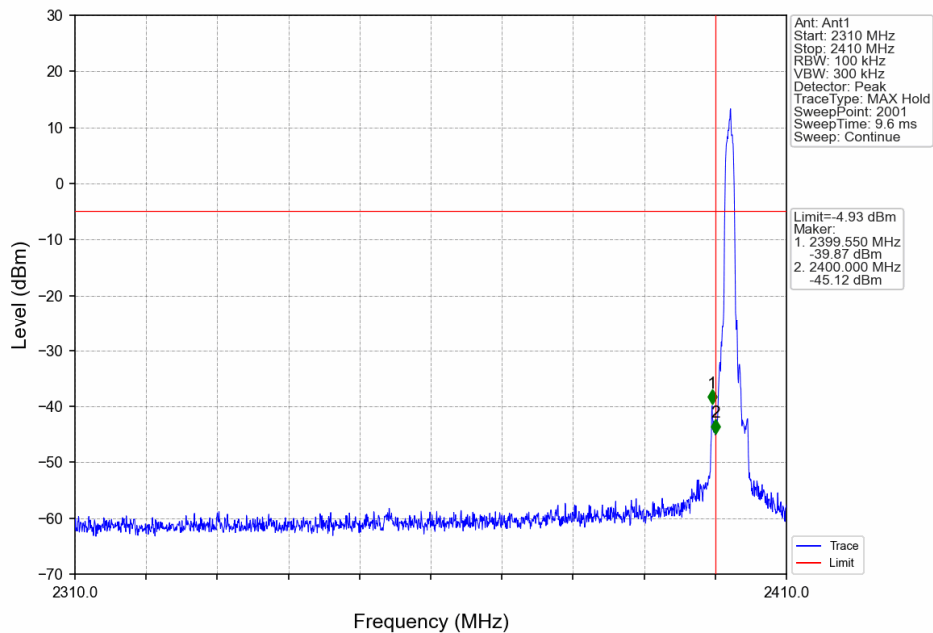
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



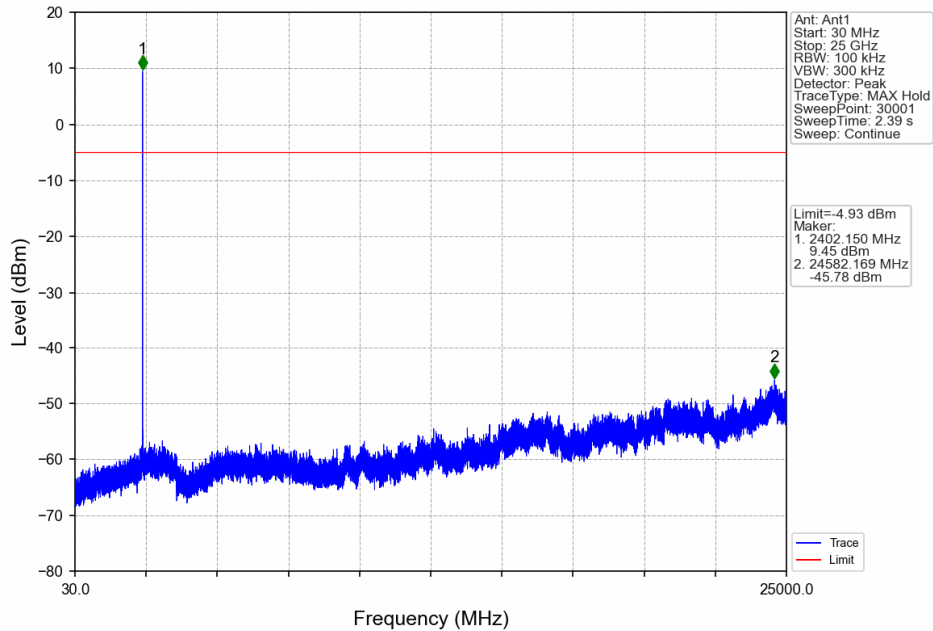
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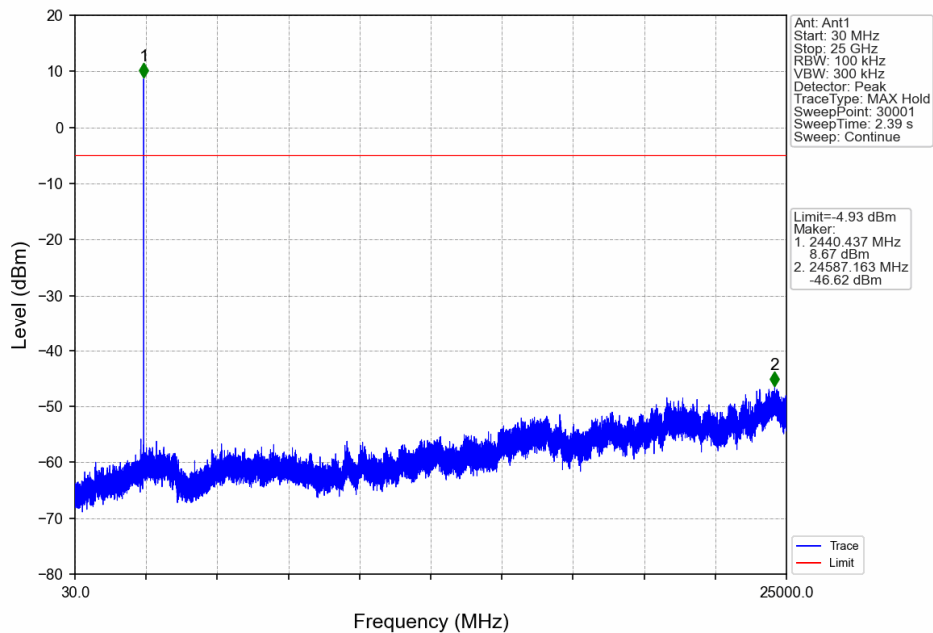
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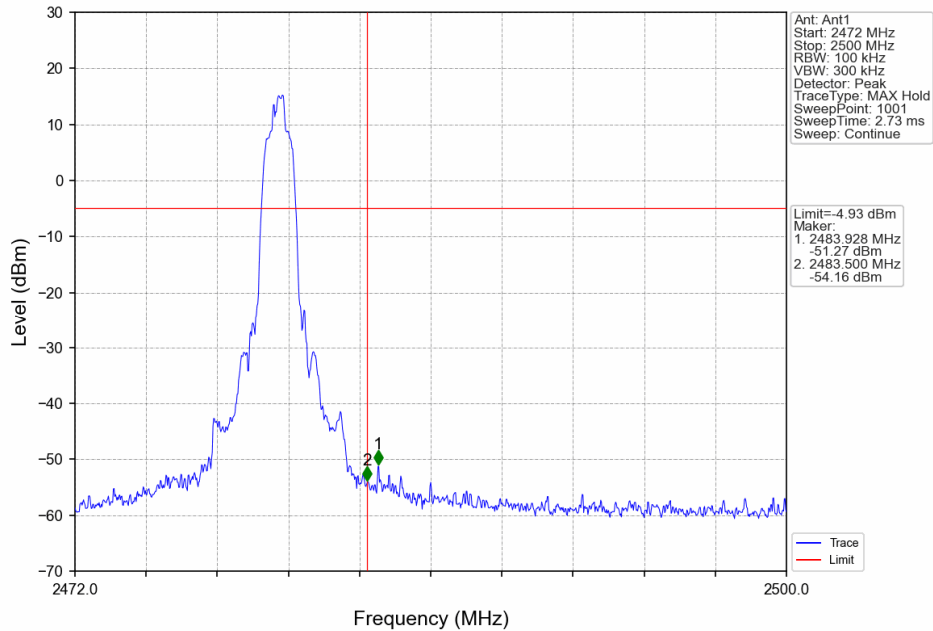
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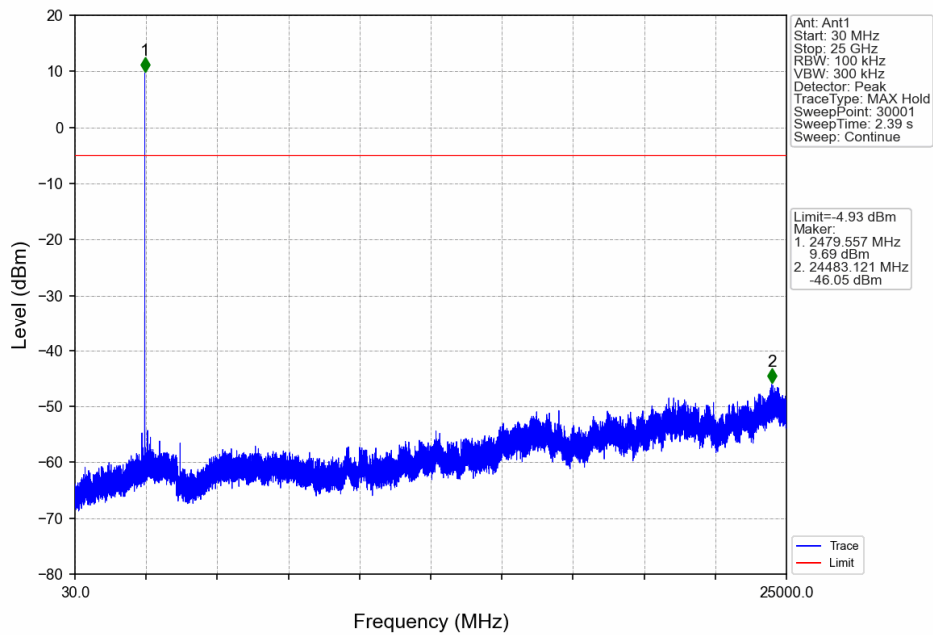
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



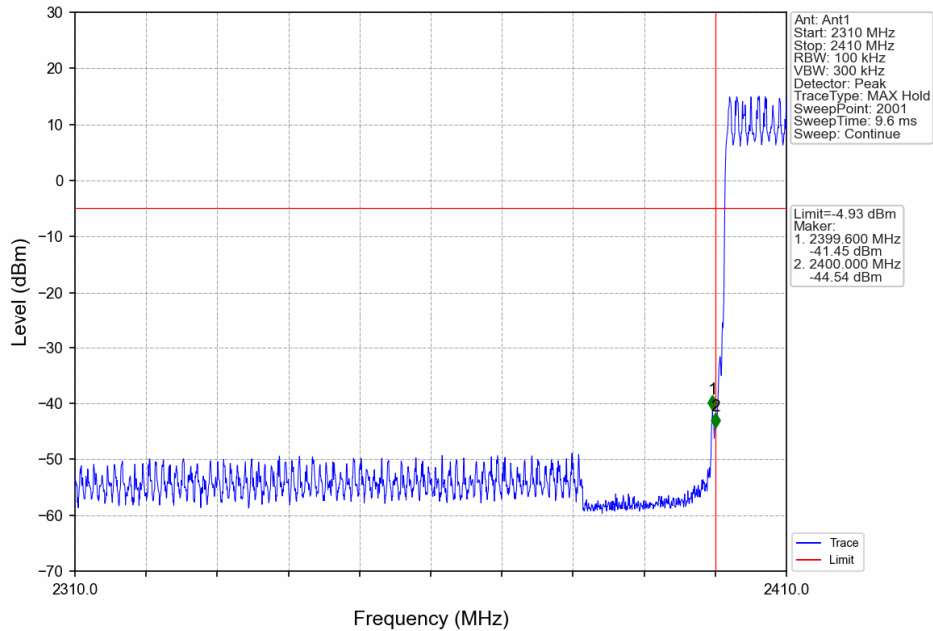
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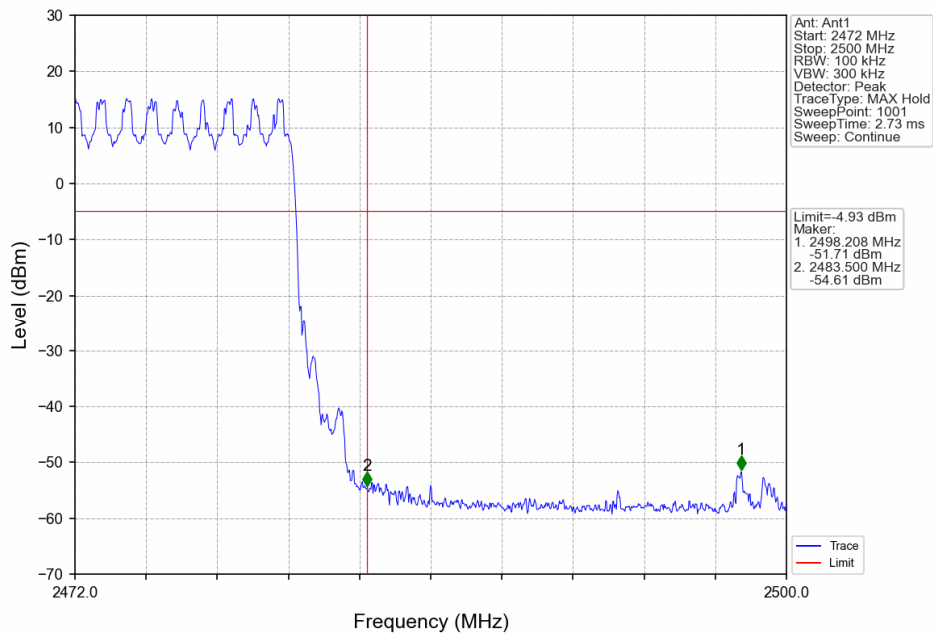
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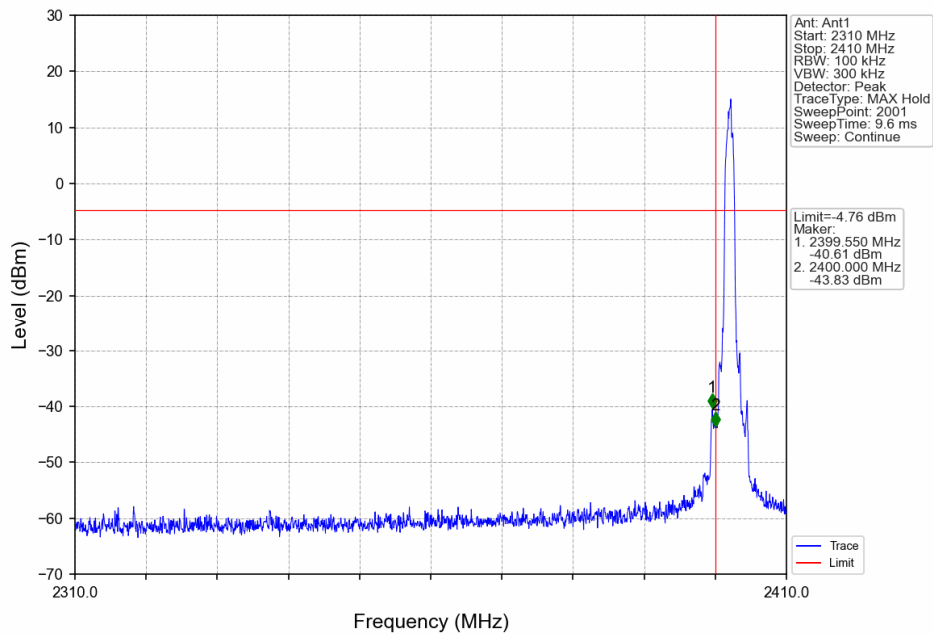
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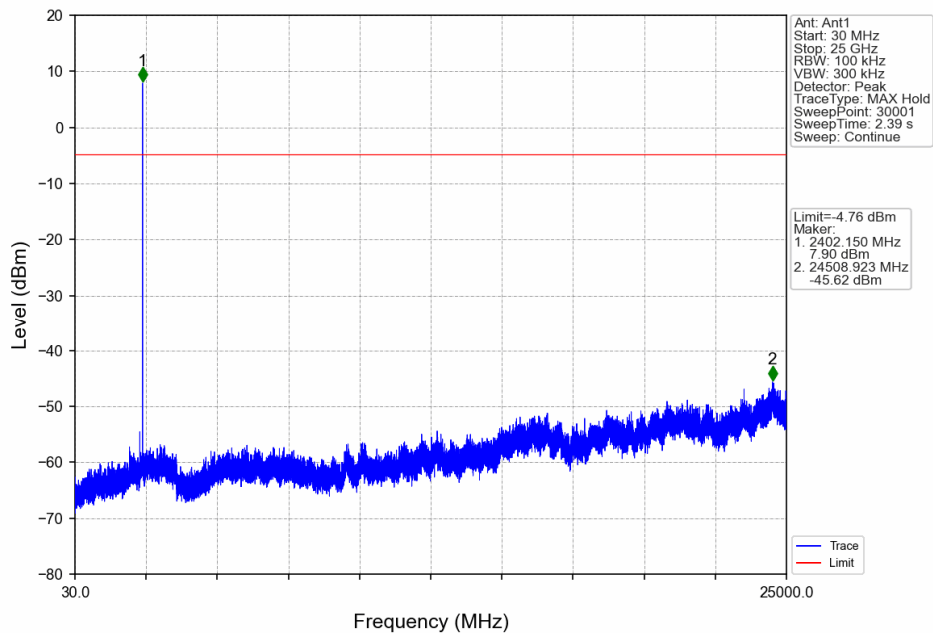
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



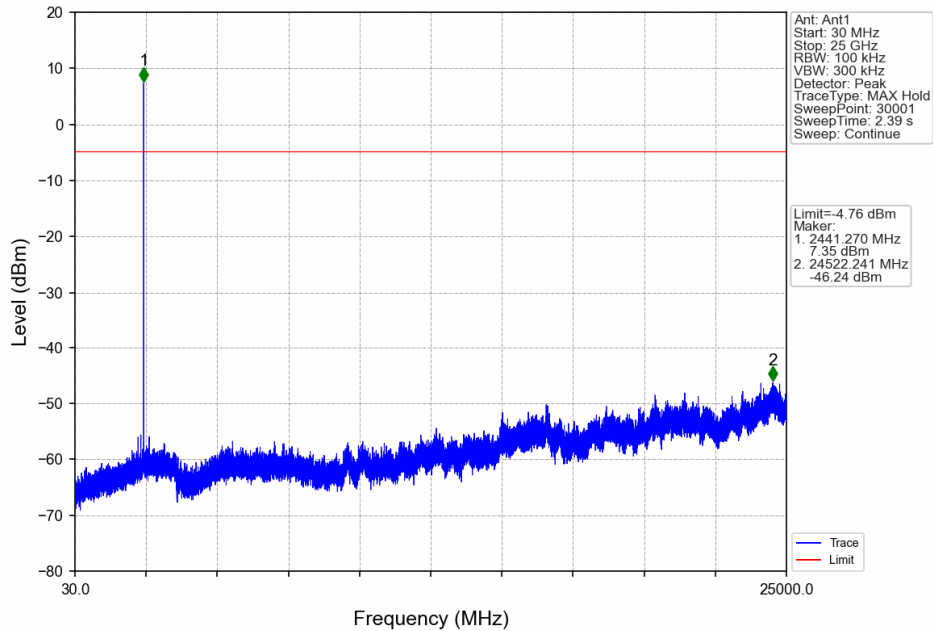
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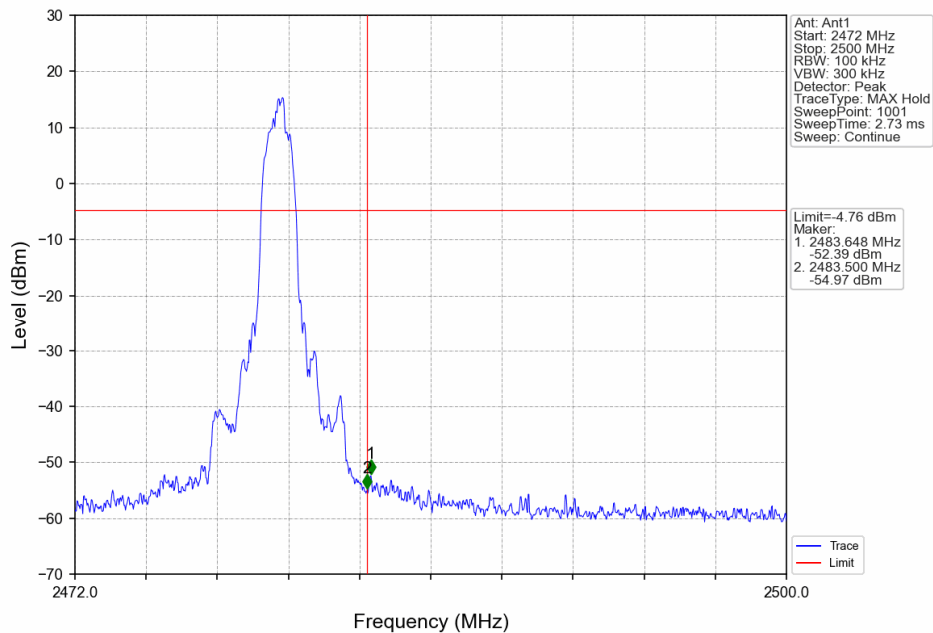
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



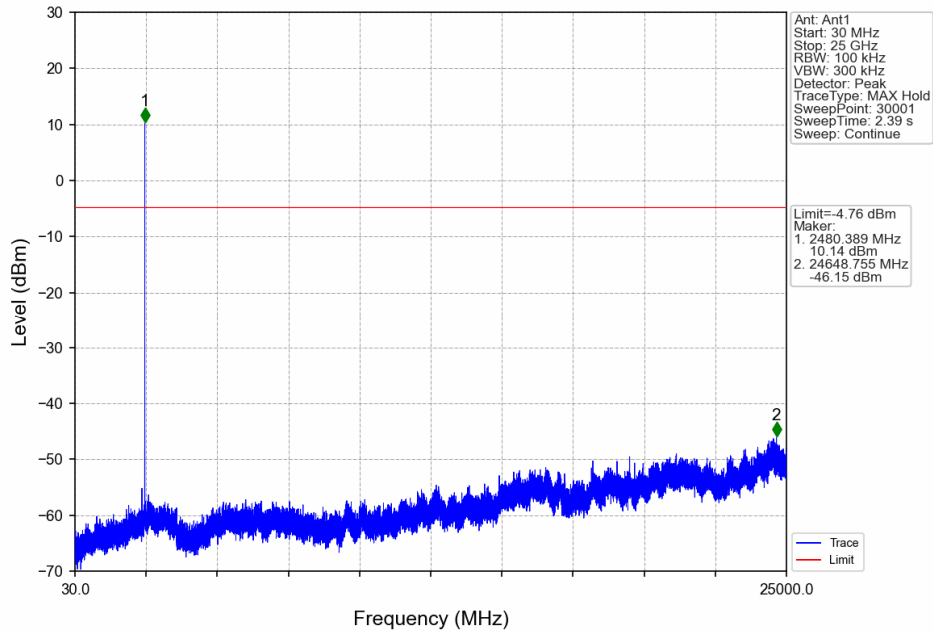
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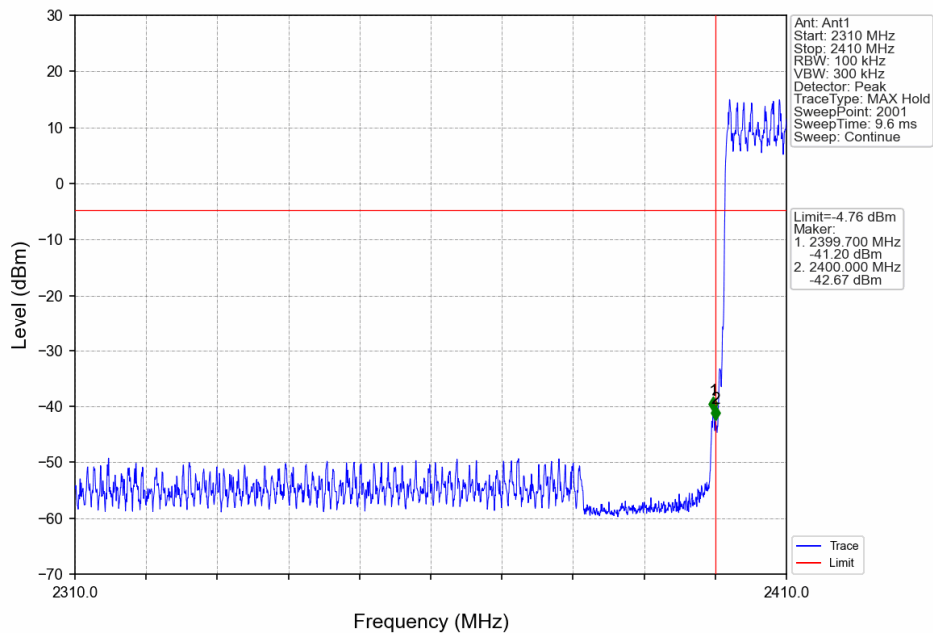
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

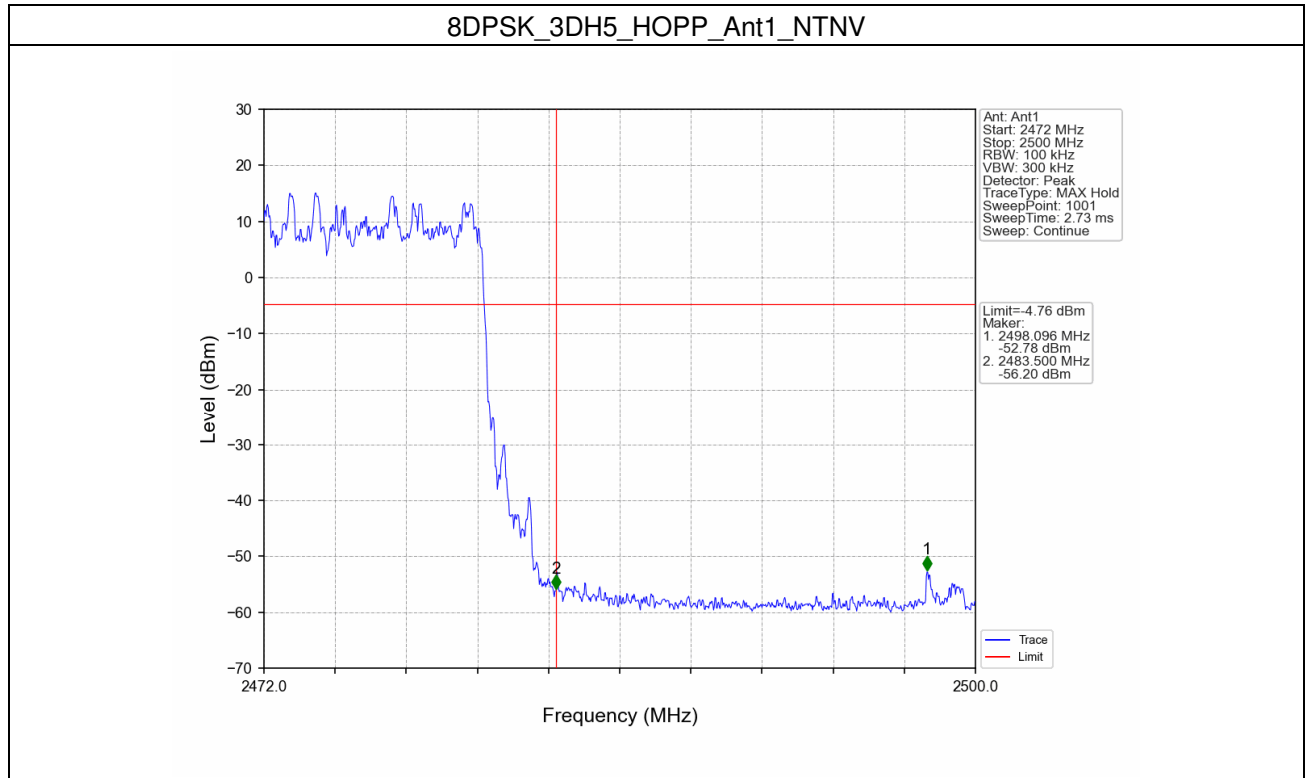


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For left earbuds:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.889	4.998	57.80	2.38	0.02
		2441	DH5	2.889	4.999	57.79	2.38	0.02
		2480	DH5	2.890	5.000	57.80	2.38	0.04
Pi/4DQPSK	SISO	2402	2DH5	2.896	5.001	57.91	2.37	0.05
		2441	2DH5	2.897	5.001	57.93	2.37	0.04
		2480	2DH5	2.896	5.001	57.91	2.37	0.04
8DPSK	SISO	2402	3DH5	2.896	5.000	57.92	2.37	0.06
		2441	3DH5	2.898	5.002	57.94	2.37	0.06
		2480	3DH5	2.896	5.000	57.92	2.37	0.07



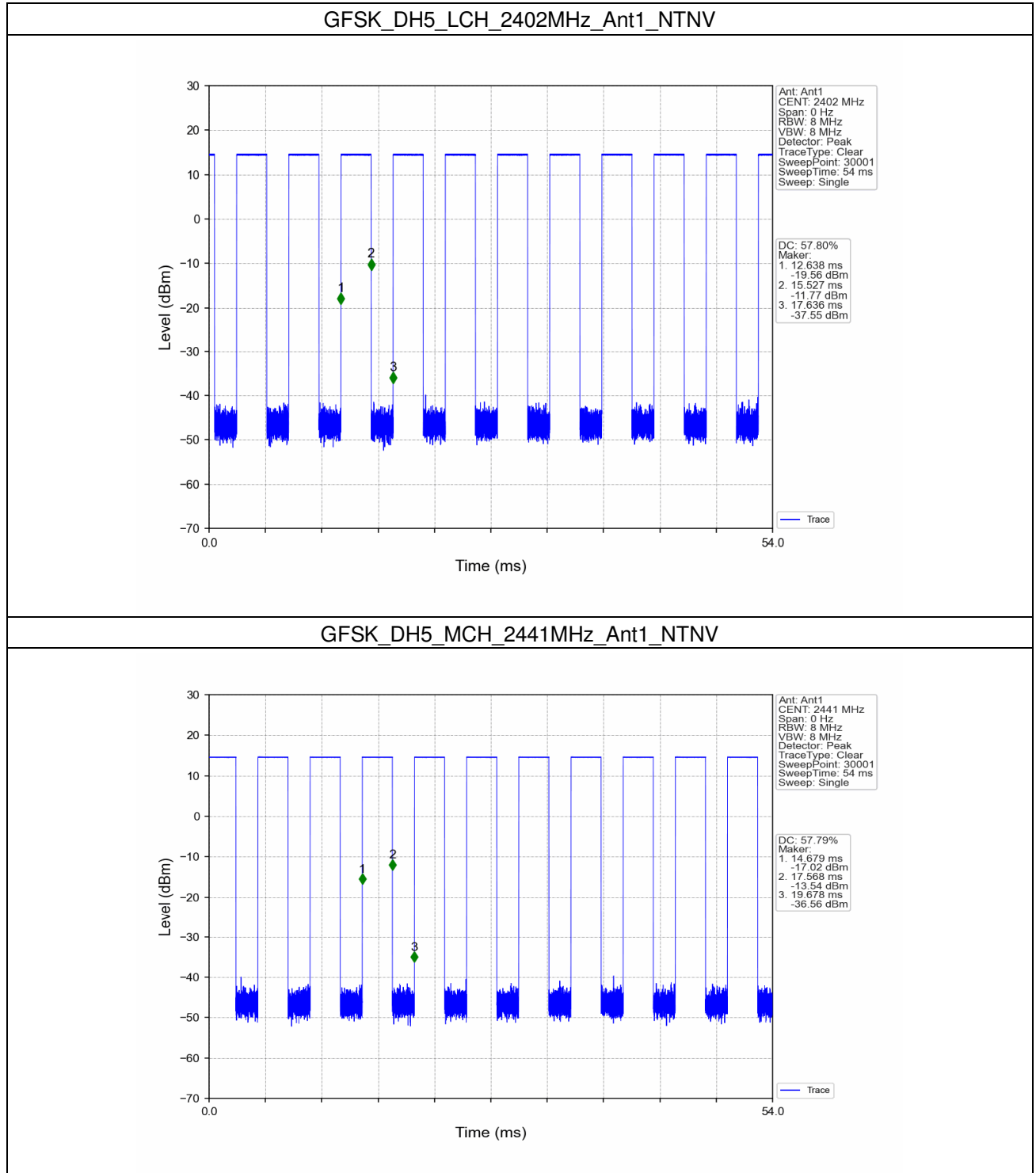
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1.1.2 Test Graph



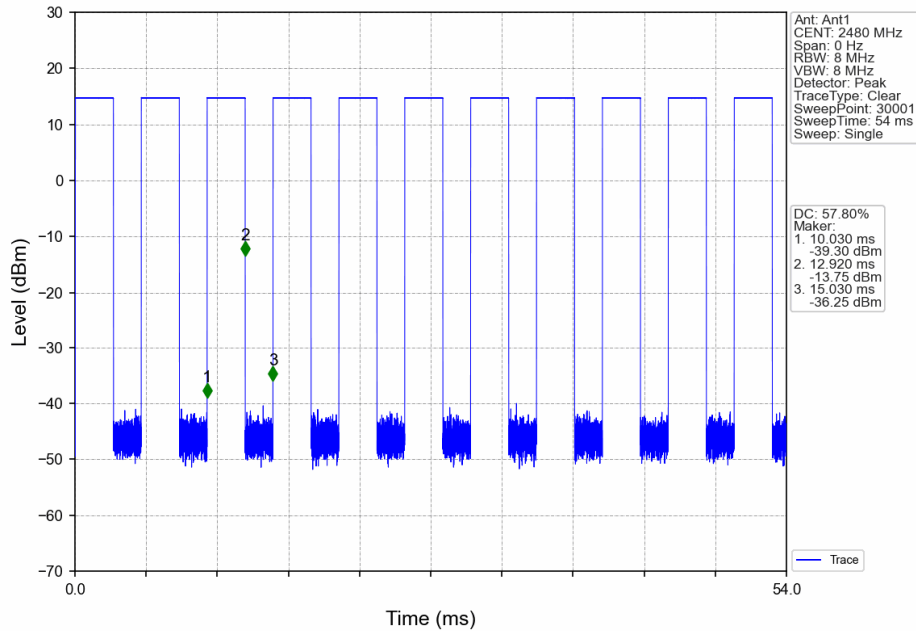
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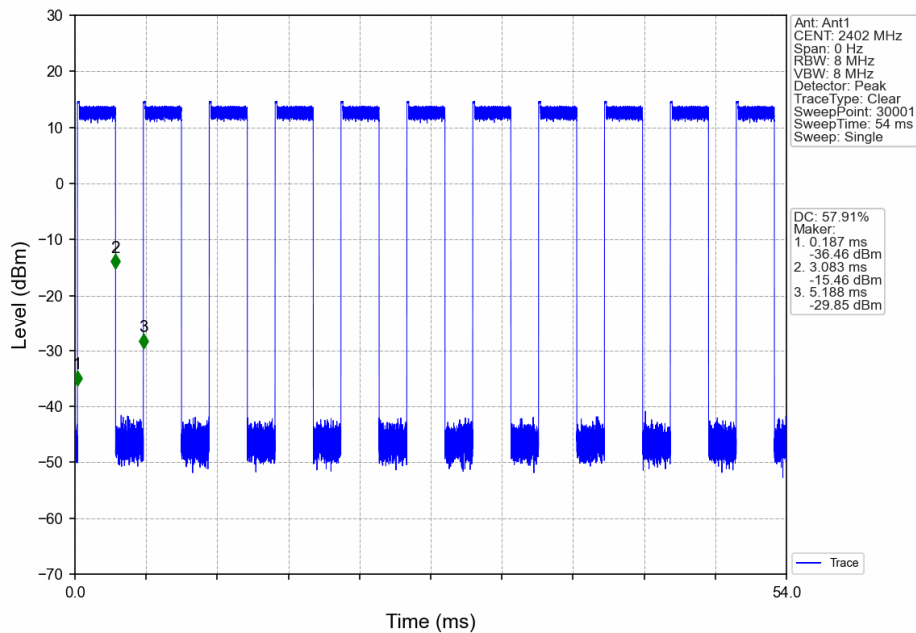
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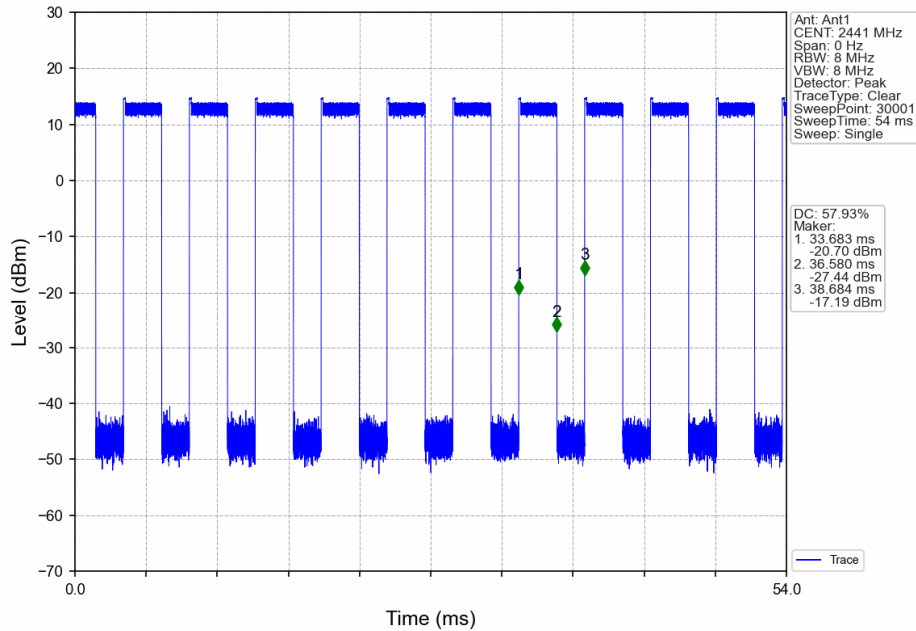
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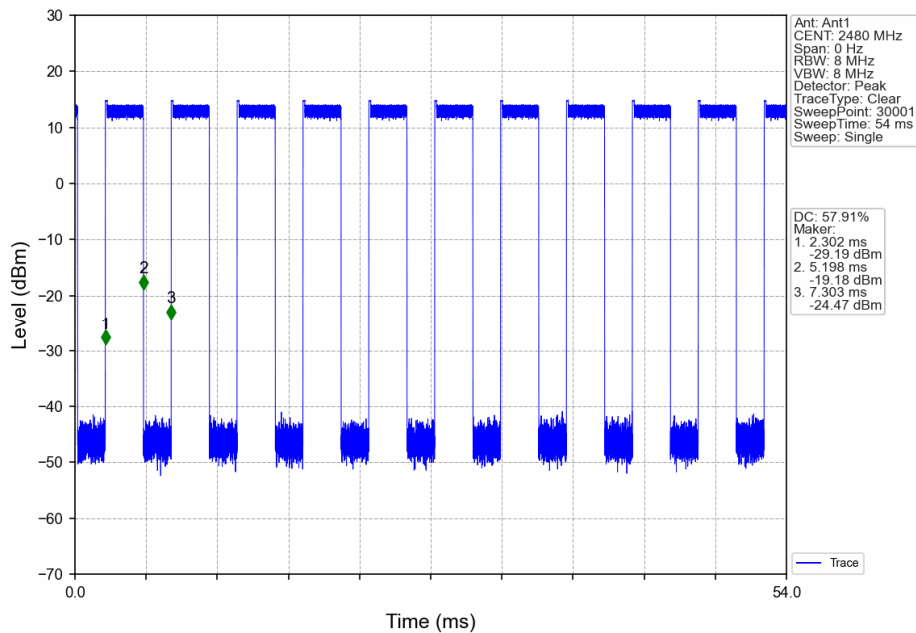
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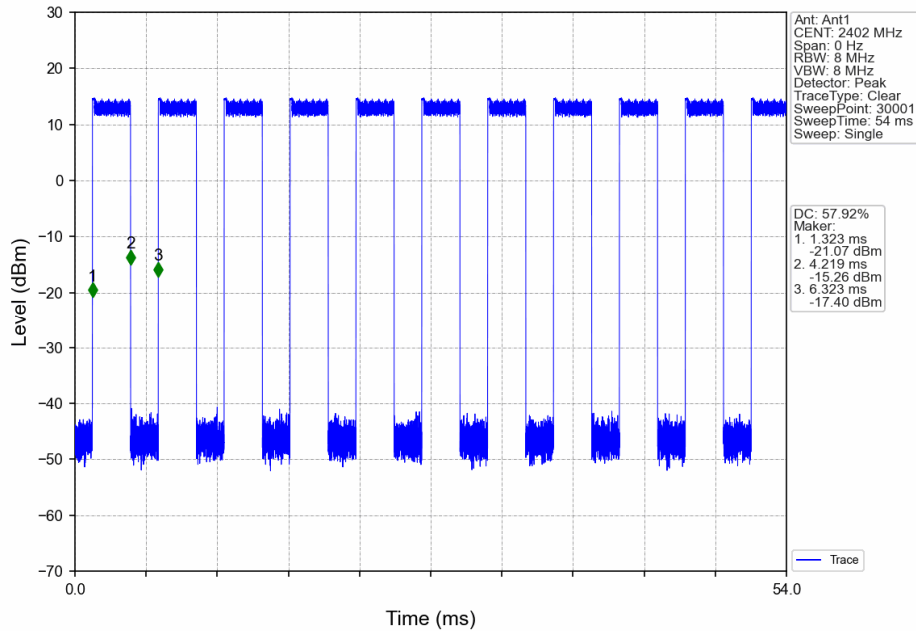
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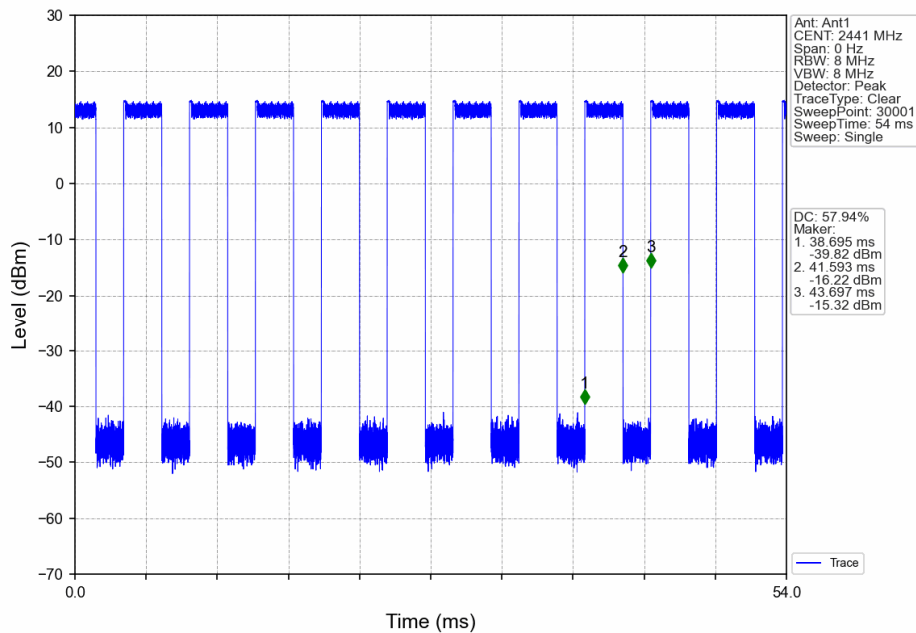
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



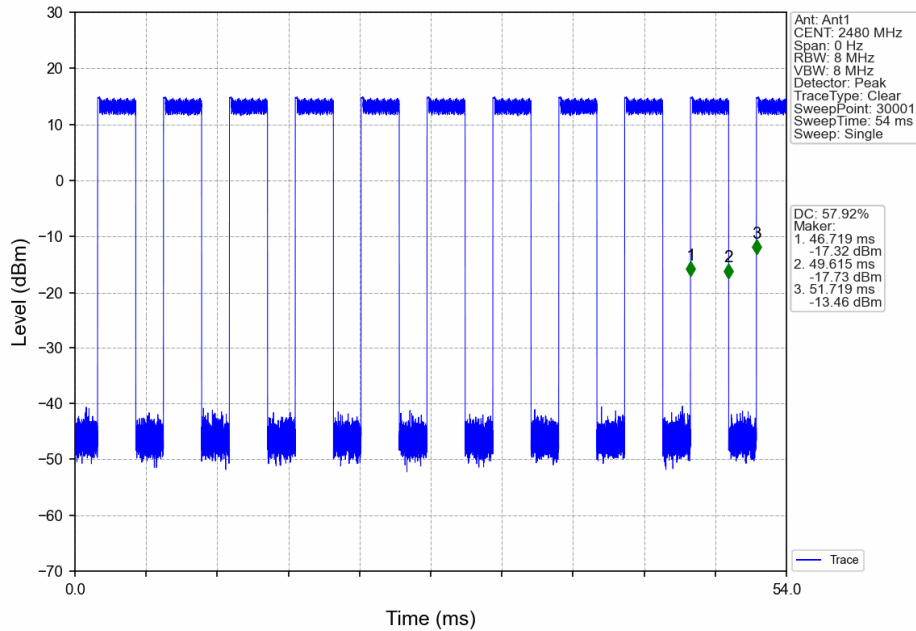
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



2. Bandwidth

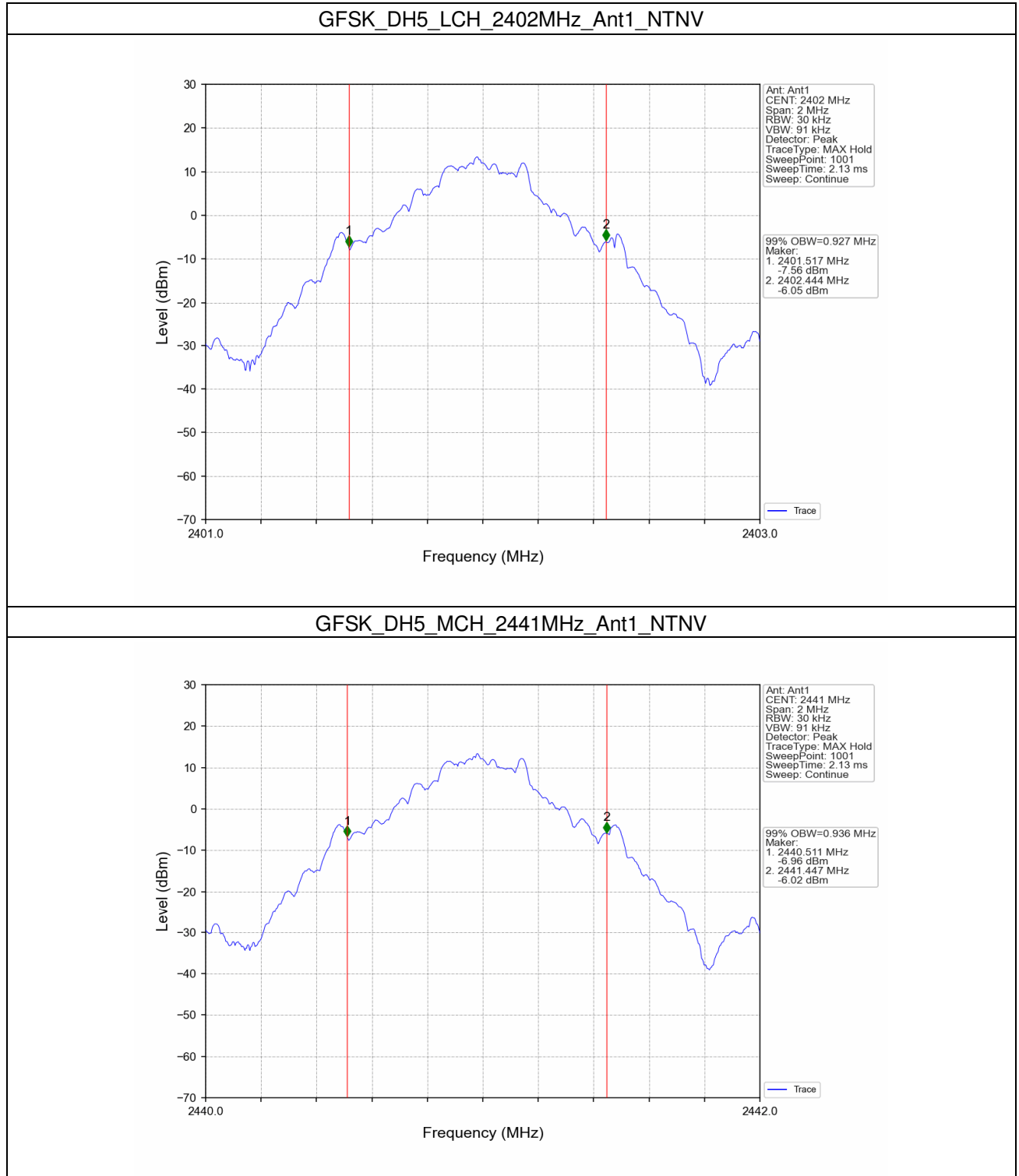
2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.927	/	Pass
		2441	DH5	1	0.936	/	Pass
		2480	DH5	1	0.937	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.120	/	Pass
		2441	2DH5	1	1.118	/	Pass
		2480	2DH5	1	1.120	/	Pass
8DPSK	SISO	2402	3DH5	1	1.133	/	Pass
		2441	3DH5	1	1.133	/	Pass
		2480	3DH5	1	1.133	/	Pass



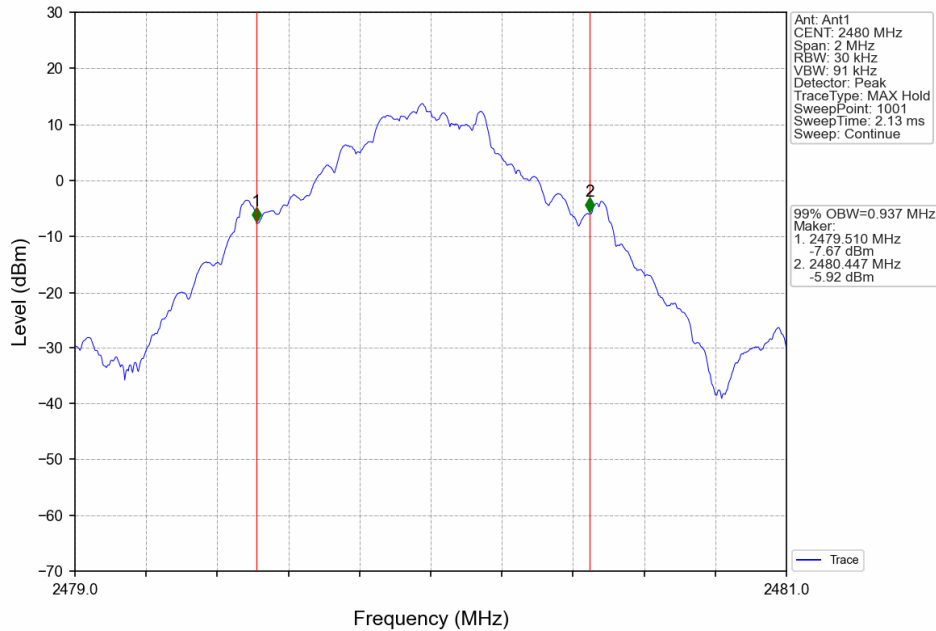
2.1.2 Test Graph



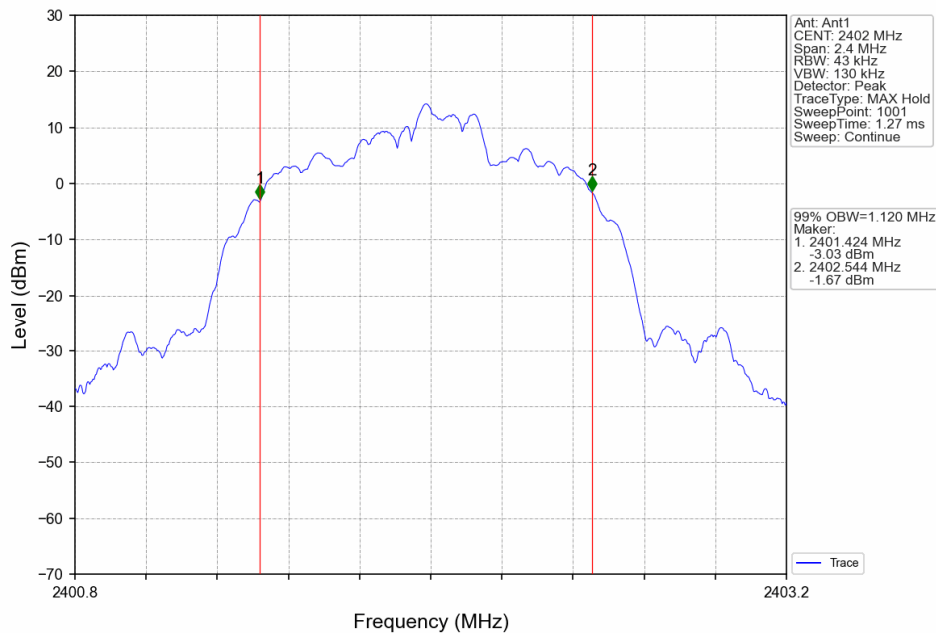
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



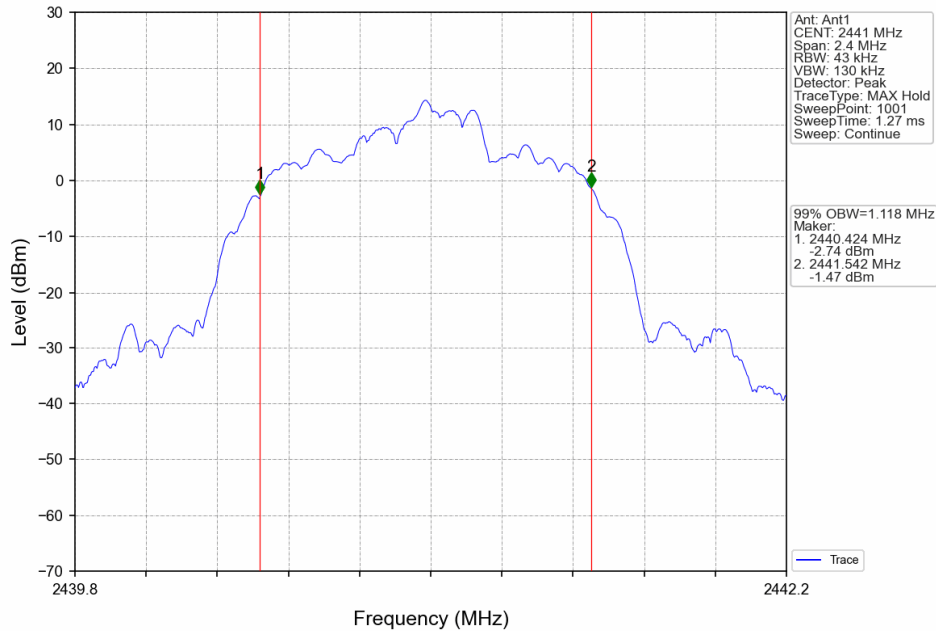
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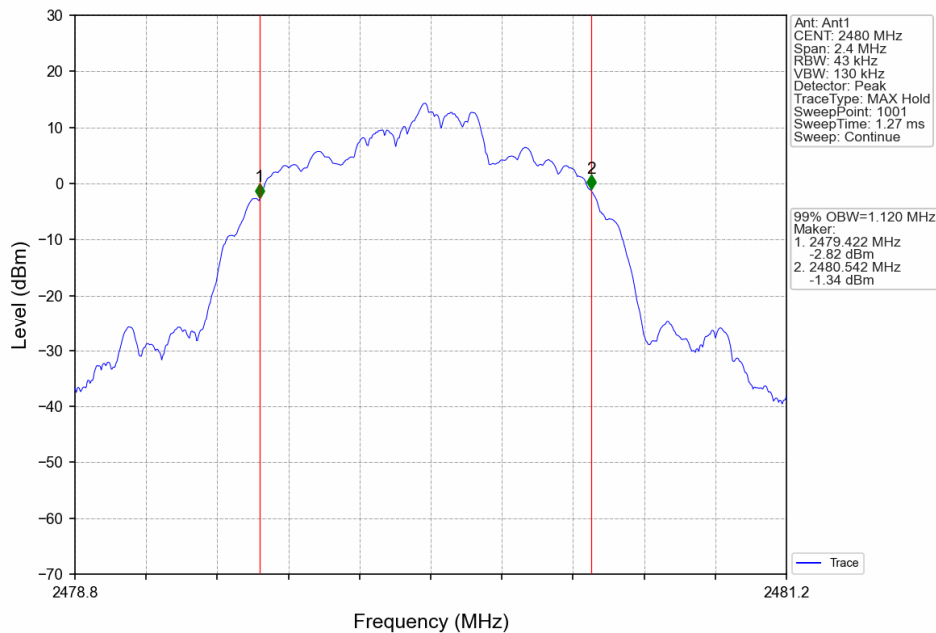
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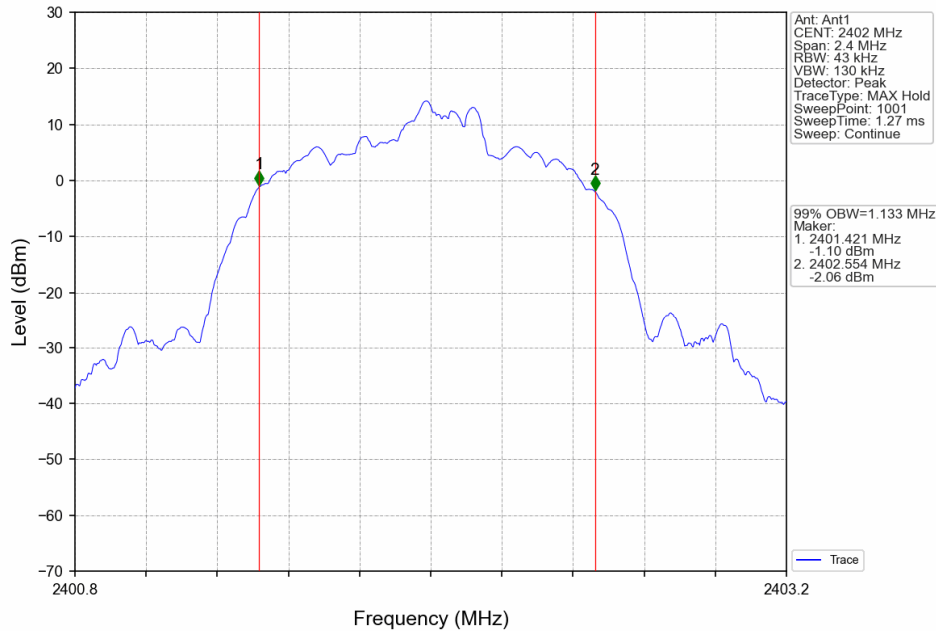
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



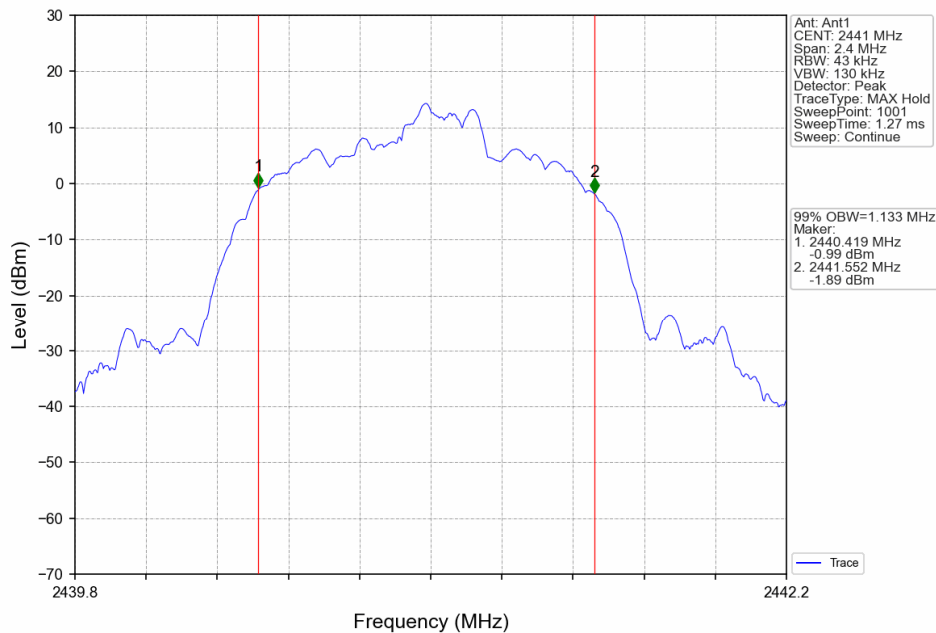
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



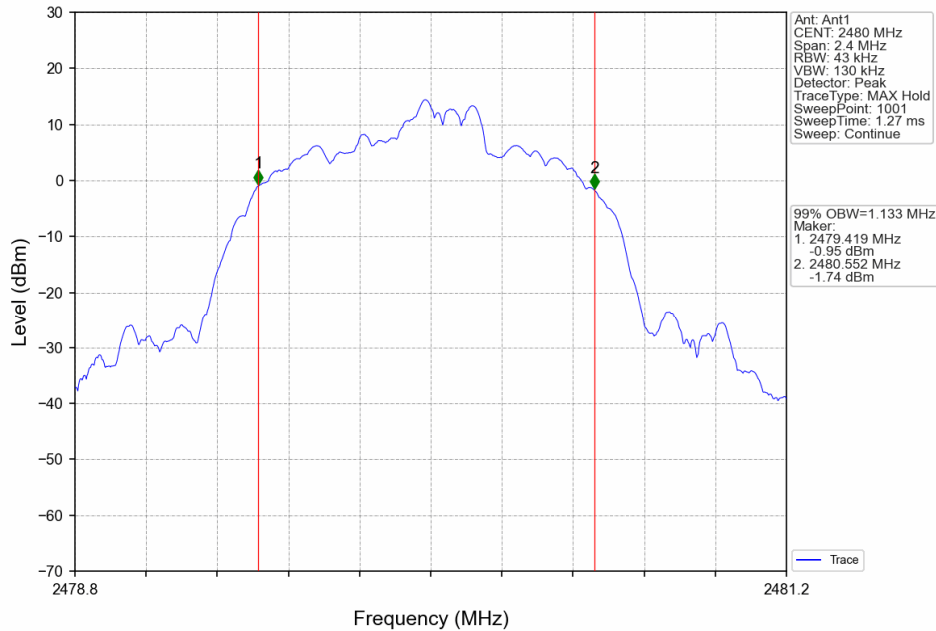
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200424002

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2.2 20dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.042	/	Pass
		2441	DH5	1	1.043	/	Pass
		2480	DH5	1	1.045	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.208	/	Pass
		2441	2DH5	1	1.211	/	Pass
		2480	2DH5	1	1.210	/	Pass
8DPSK	SISO	2402	3DH5	1	1.234	/	Pass
		2441	3DH5	1	1.233	/	Pass
		2480	3DH5	1	1.233	/	Pass



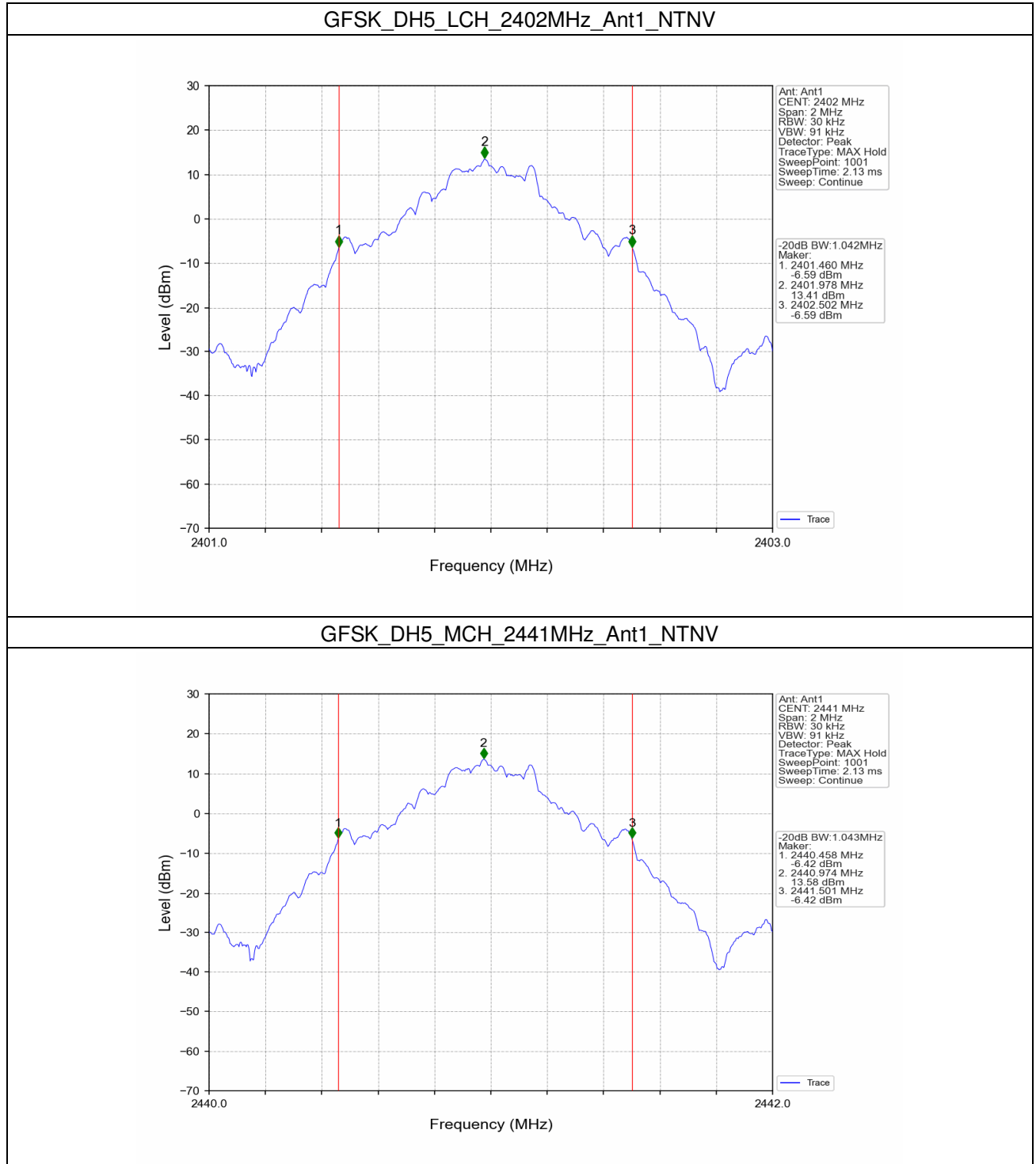
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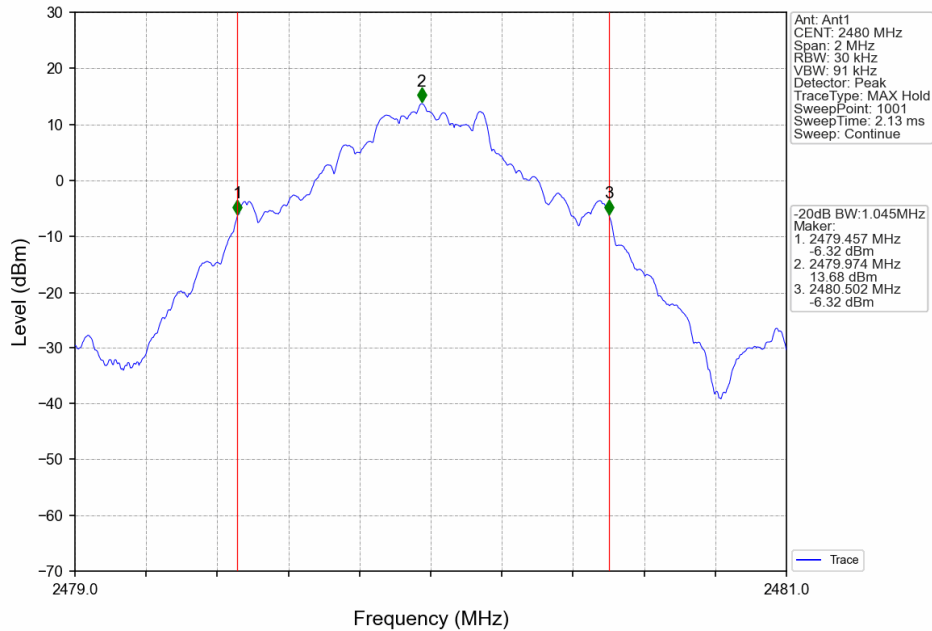
2.2.2 Test Graph



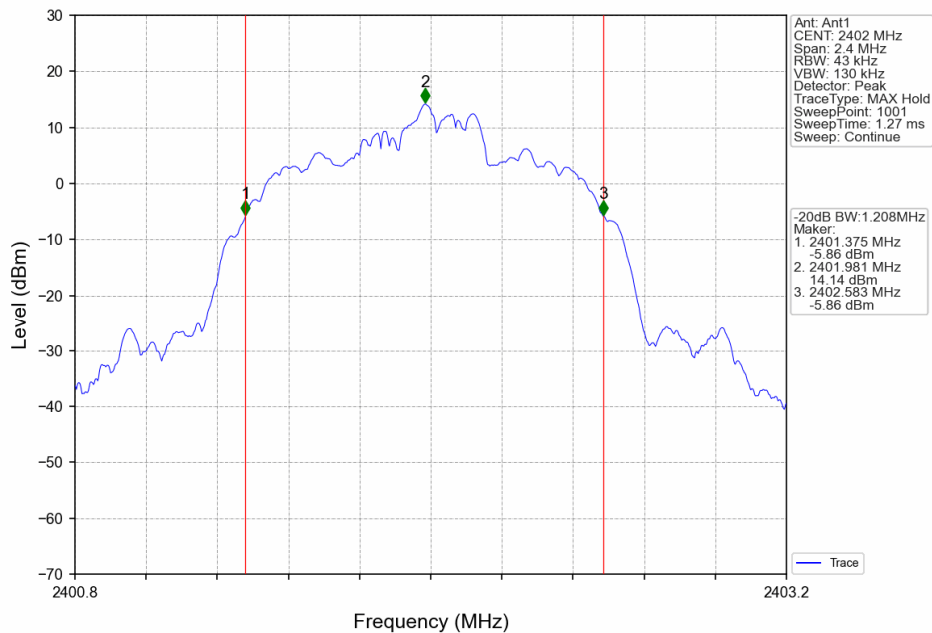
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



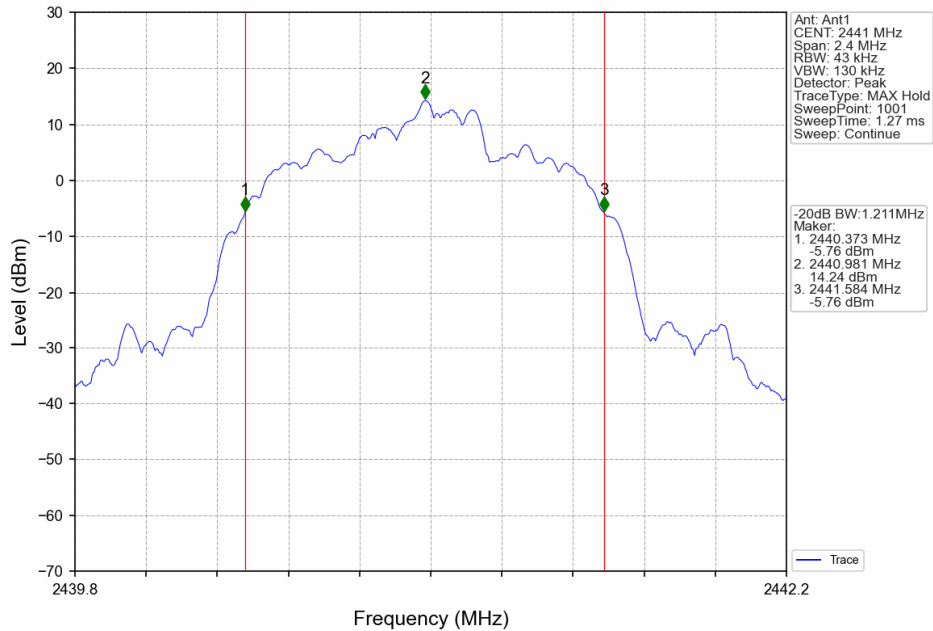
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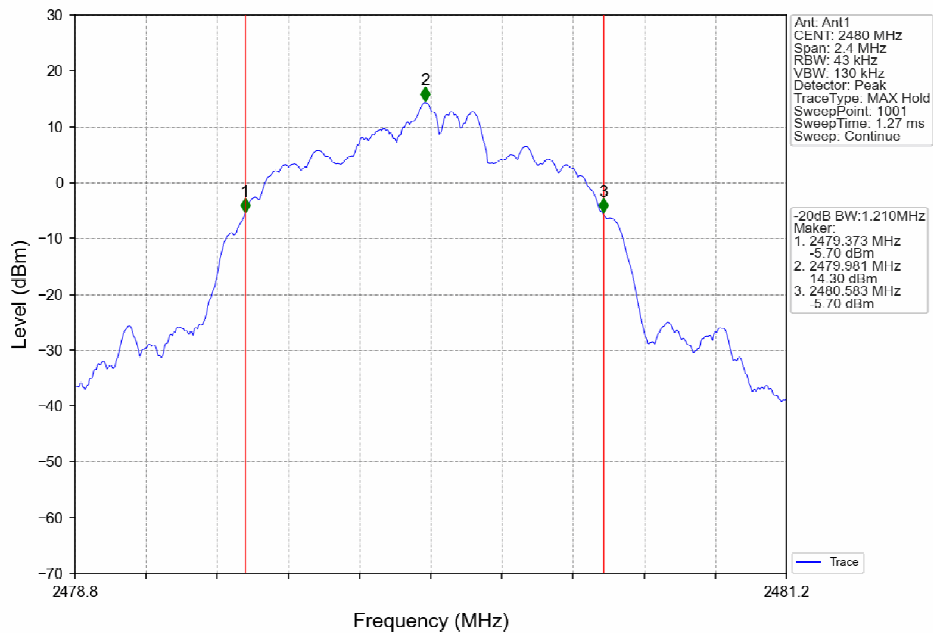
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



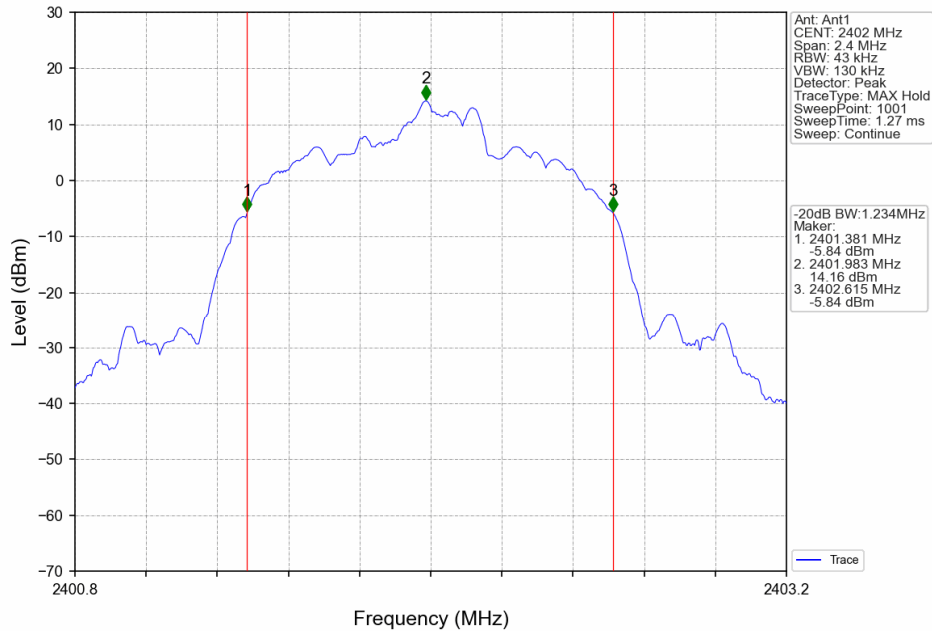
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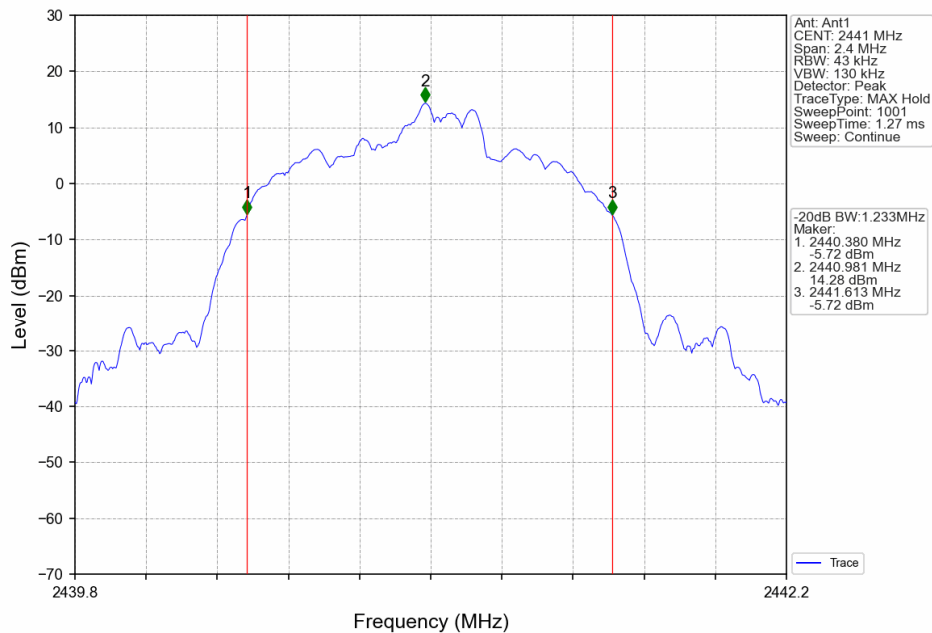
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



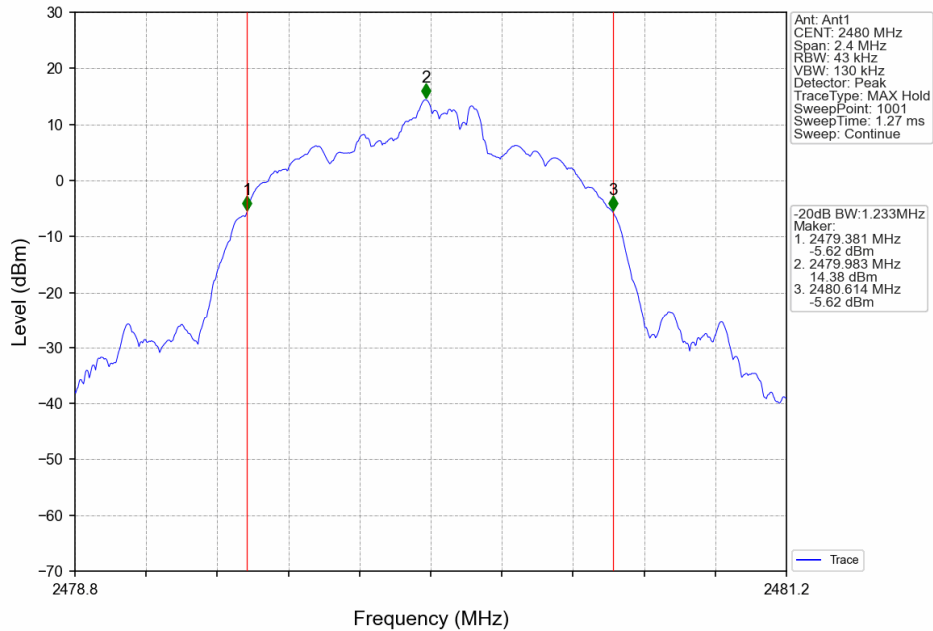
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	14.54	≤ 20.97	Pass
		2441	DH5	14.64	≤ 20.97	Pass
		2480	DH5	14.75	≤ 20.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	14.59	≤ 20.97	Pass
		2441	2DH5	14.66	≤ 20.97	Pass
		2480	2DH5	14.77	≤ 20.97	Pass
8DPSK	SISO	2402	3DH5	14.64	≤ 20.97	Pass
		2441	3DH5	14.73	≤ 20.97	Pass
		2480	3DH5	14.81	≤ 20.97	Pass

4. Carrier Frequency Separation

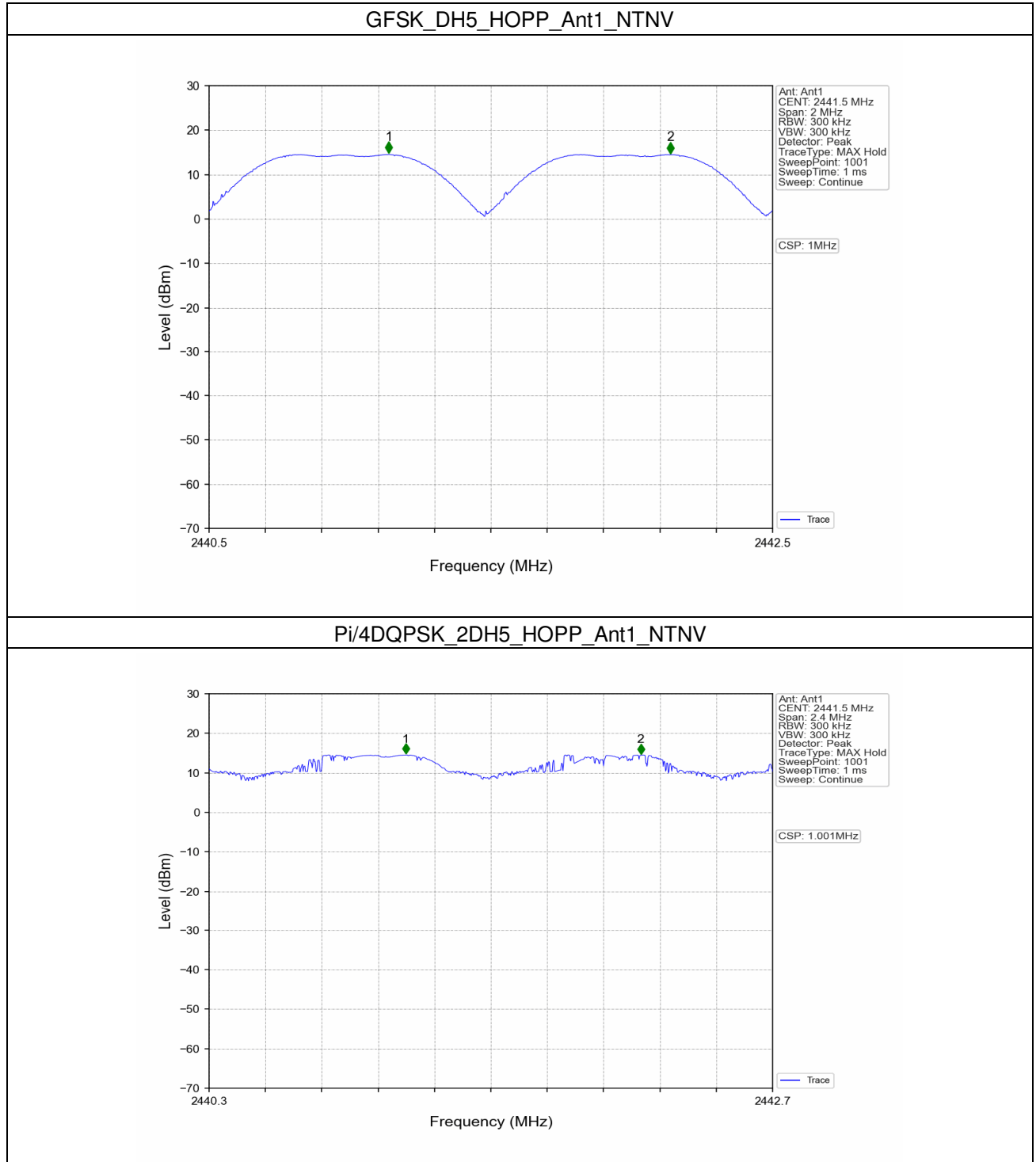
4.1 Ant1

4.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.045	≥ 0.697	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.211	≥ 0.807	Pass
8DPSK	SISO	HOPP	3DH5	1.003	1.234	≥ 0.823	Pass



4.1.2 Test Graph

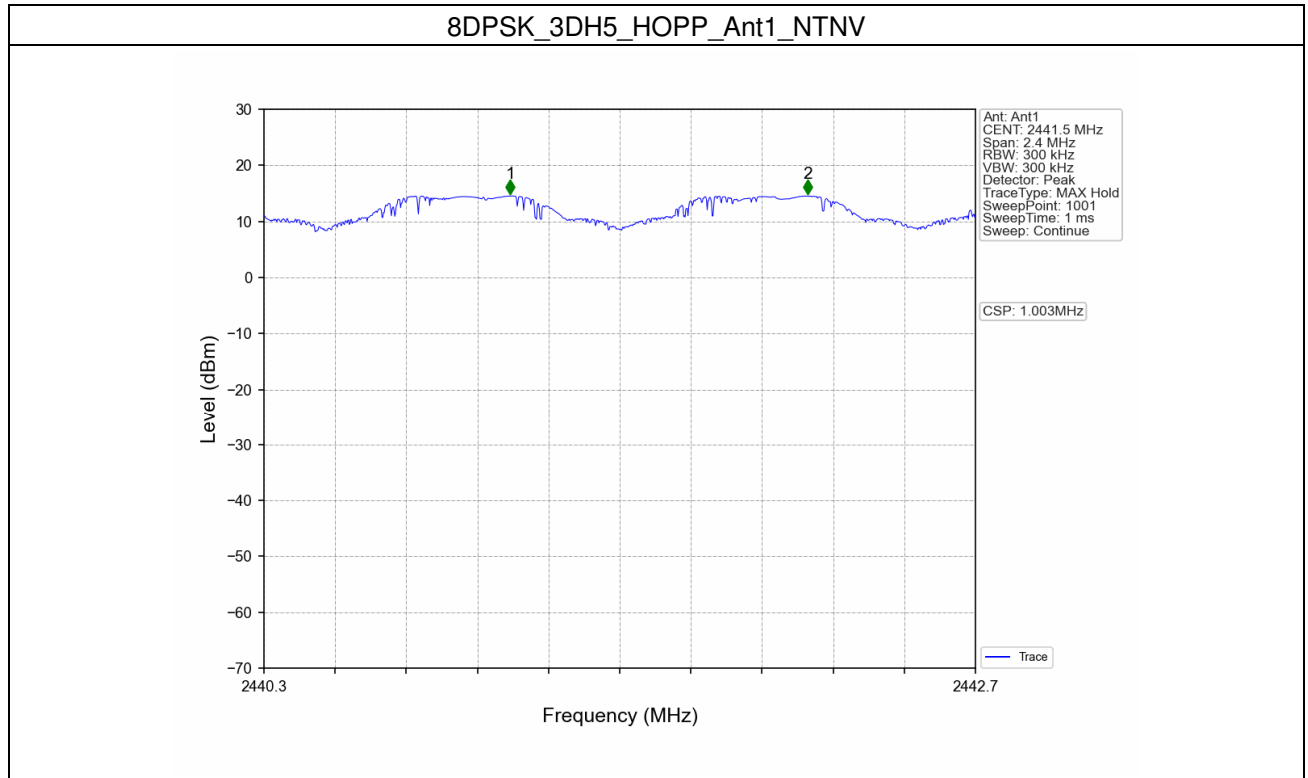


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5. Number of Hopping Frequencies

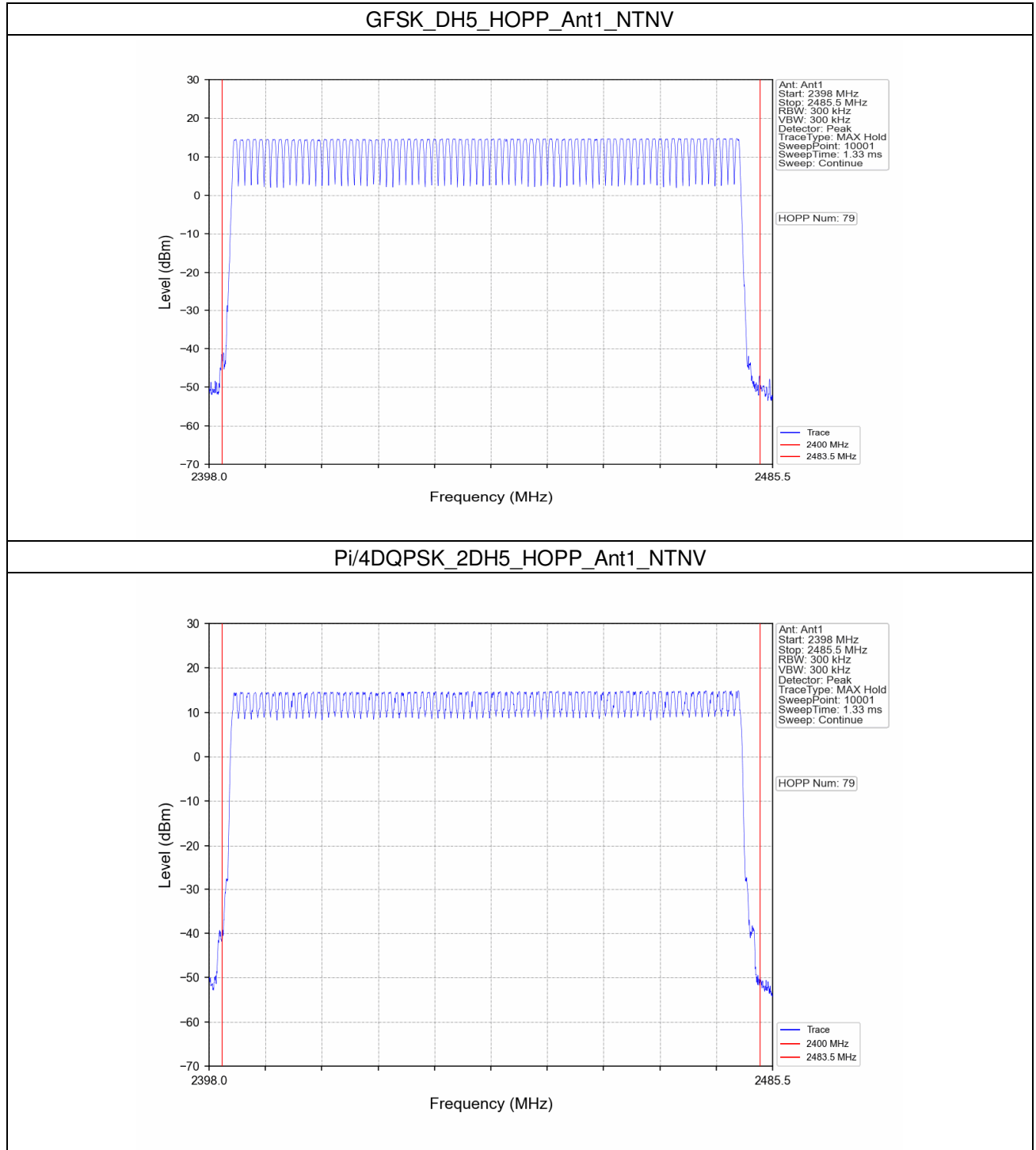
5.1 HoppNum

5.1.1 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



5.1.2 Test Graph

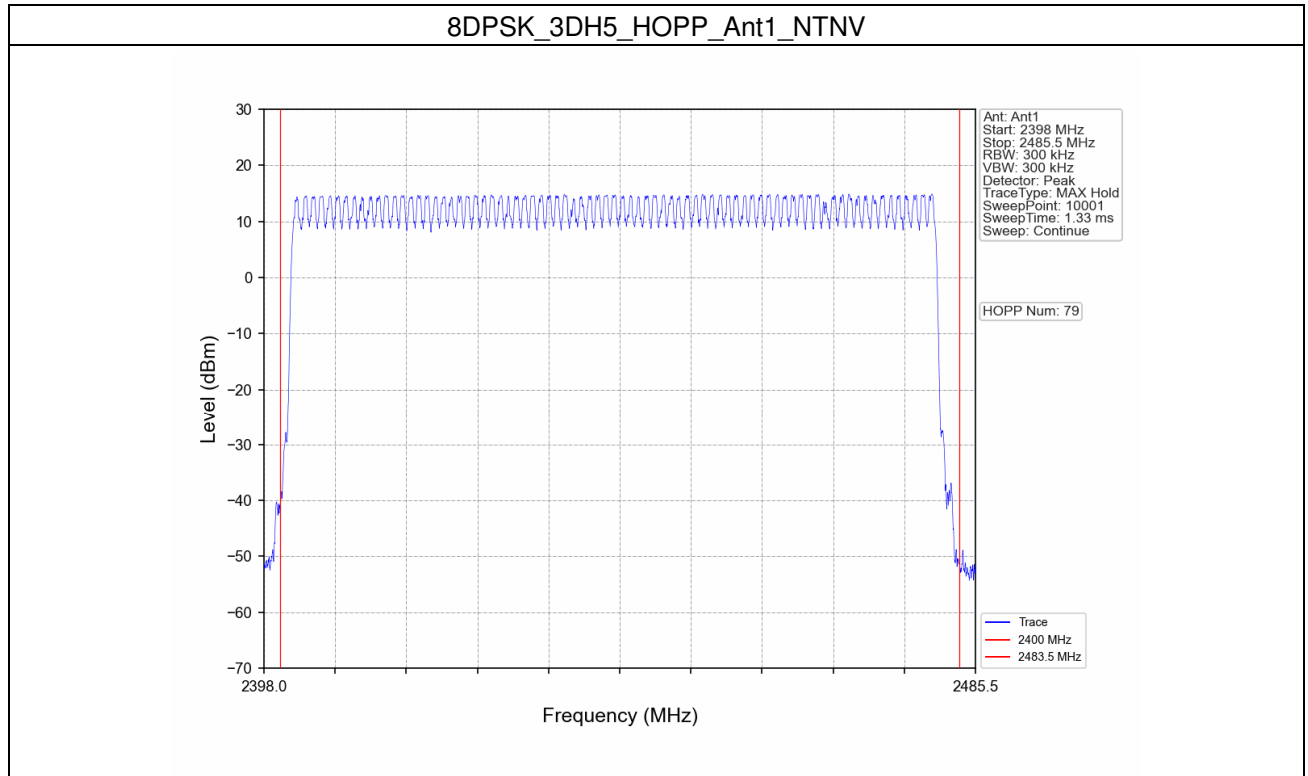


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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

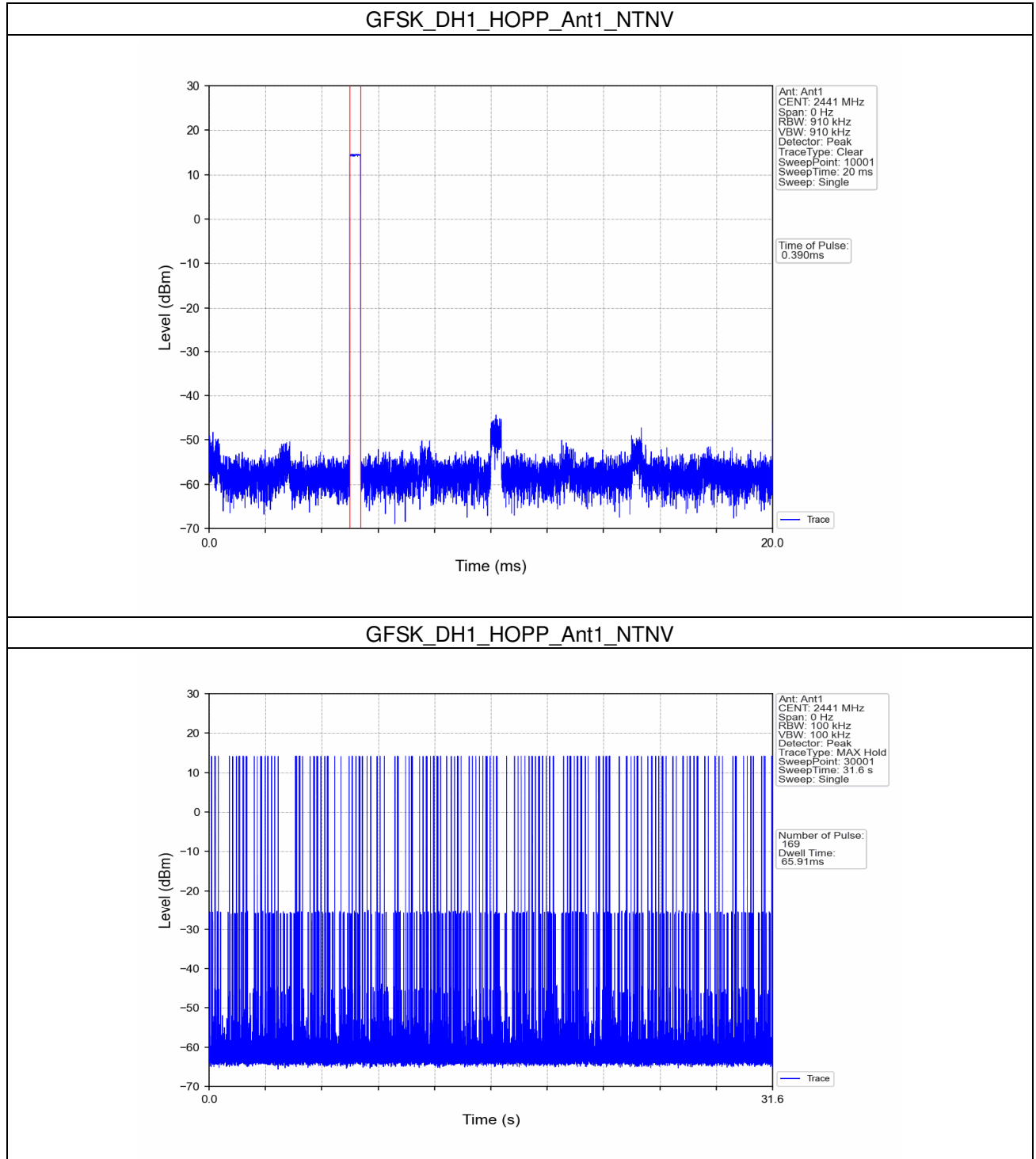
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.390	31.600	169	65.910	<=400	Pass
			DH3	1.646	31.600	94	154.724	<=400	Pass
			DH5	2.896	31.600	79	228.784	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.396	31.600	170	67.320	<=400	Pass
			2DH3	1.652	31.600	94	155.288	<=400	Pass
			2DH5	2.898	31.600	77	223.146	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.396	31.600	170	67.320	<=400	Pass
			3DH3	1.646	31.600	92	151.432	<=400	Pass
			3DH5	2.902	31.600	91	264.082	<=400	Pass



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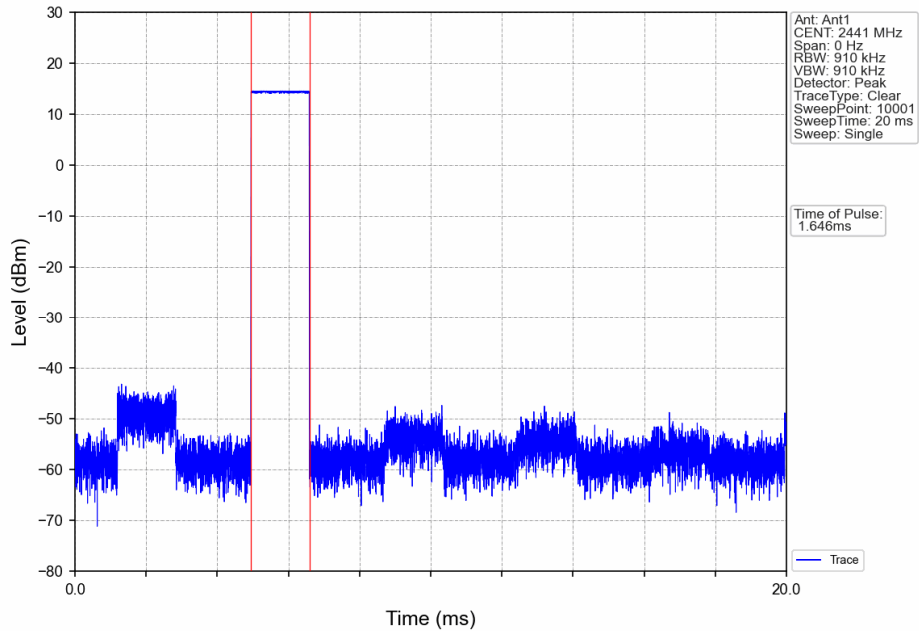
6.1.2 Test Graph



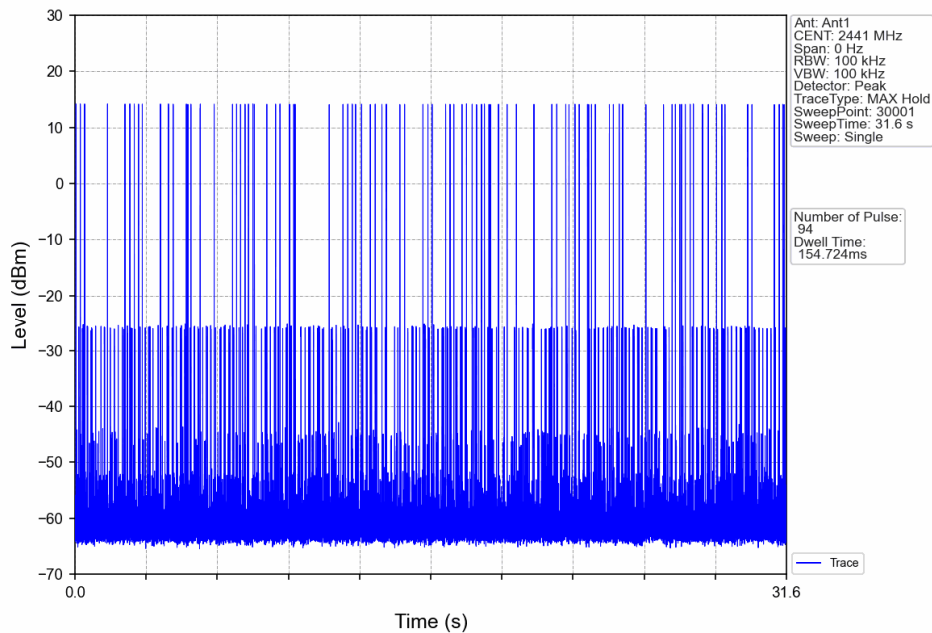
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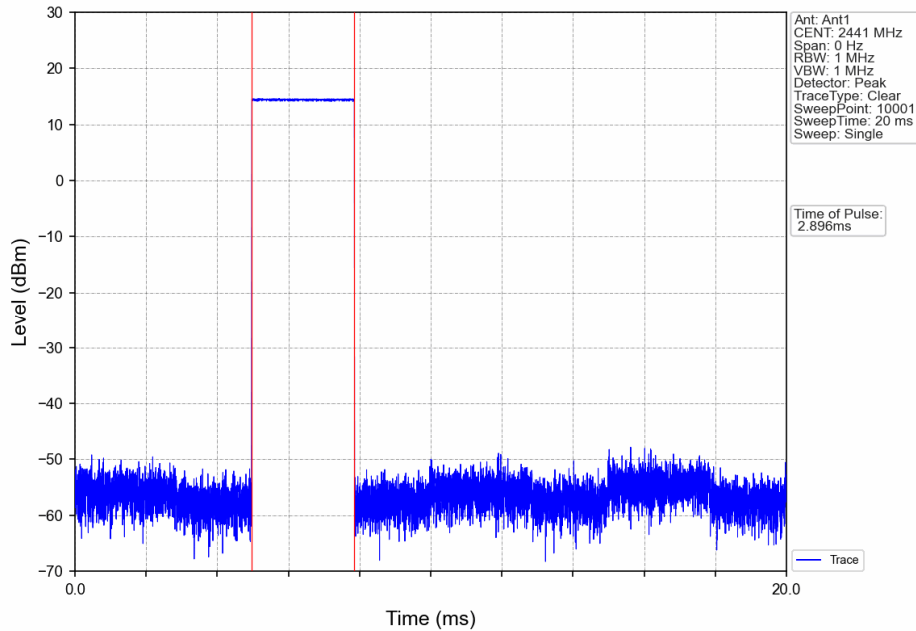
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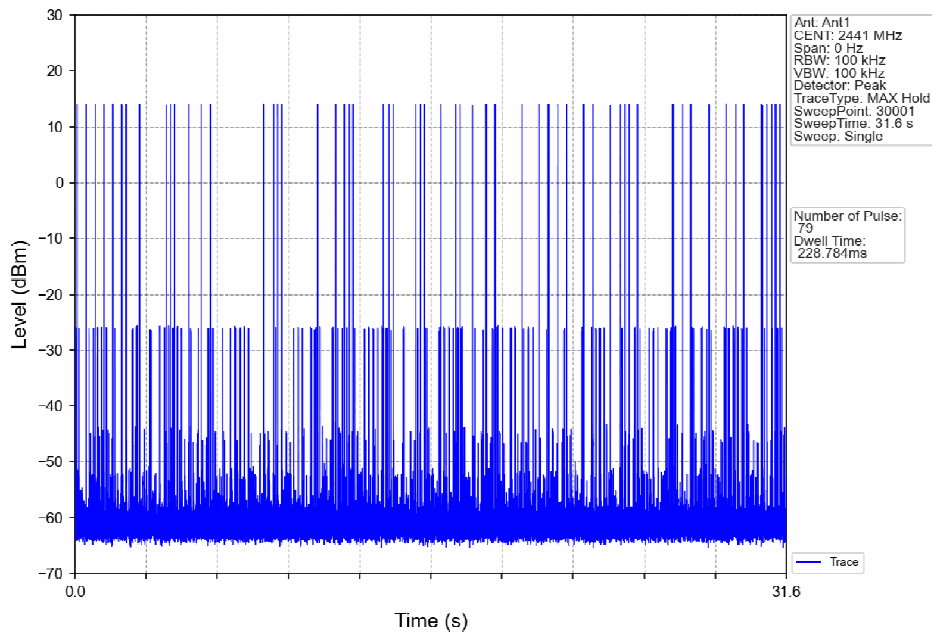
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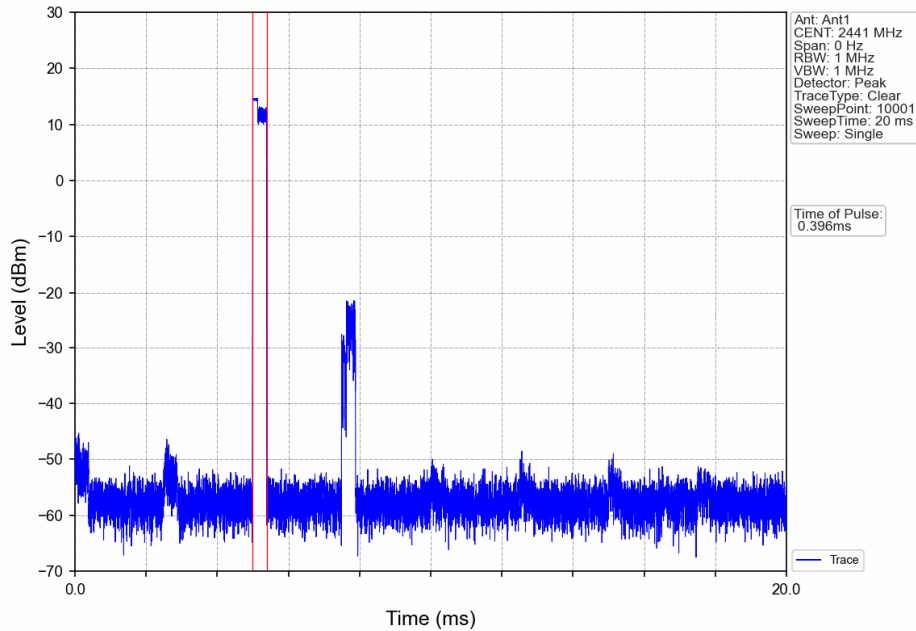
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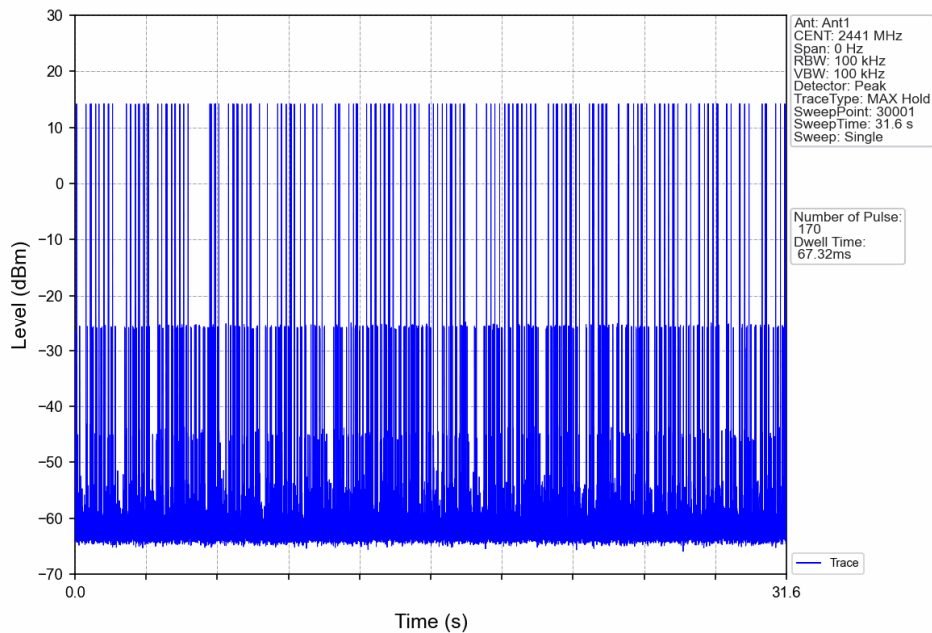
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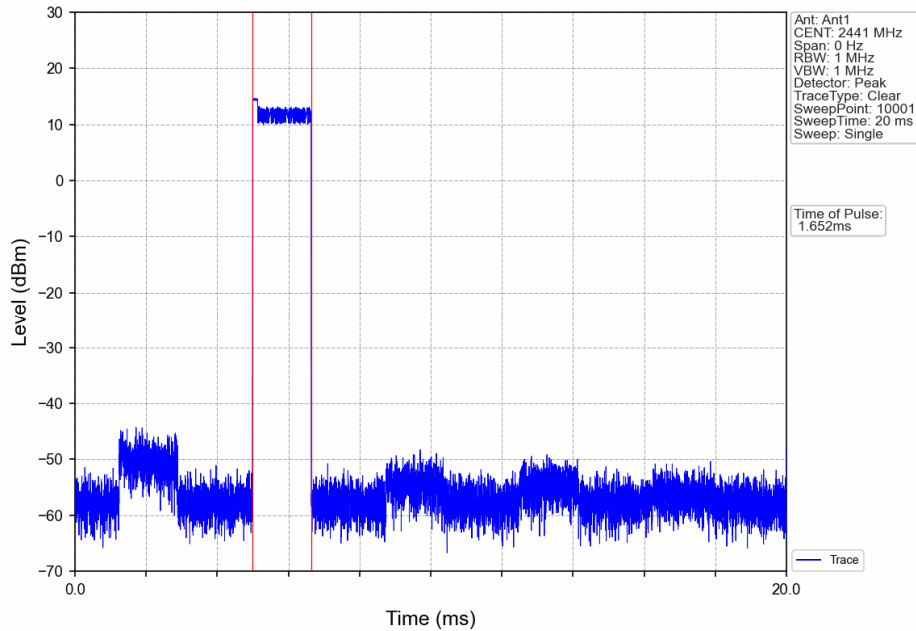
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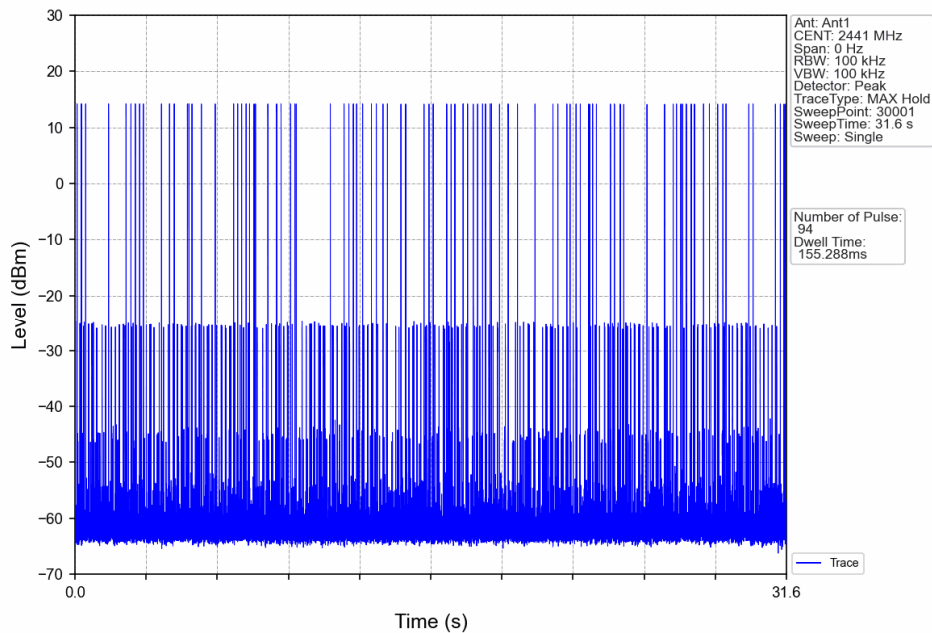
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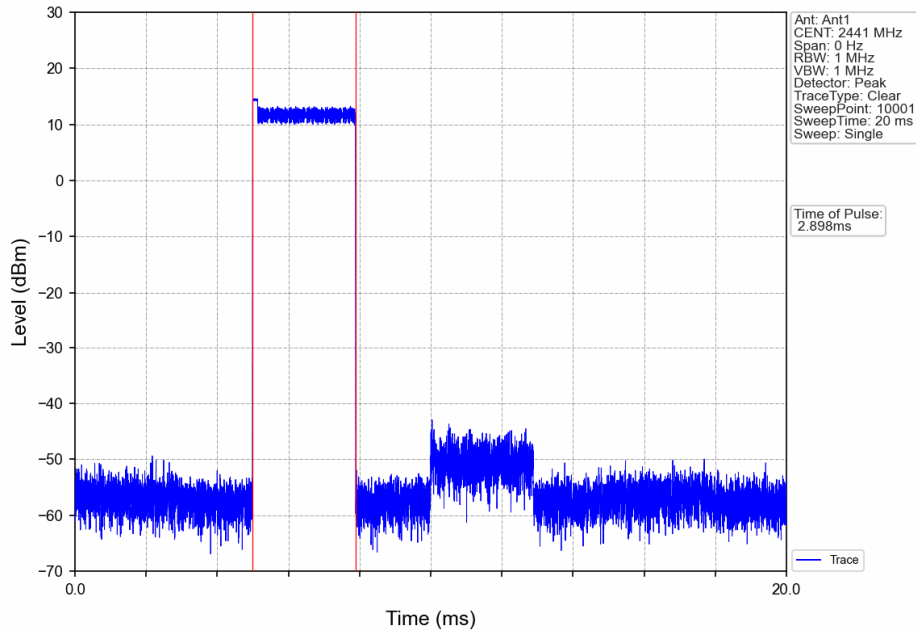
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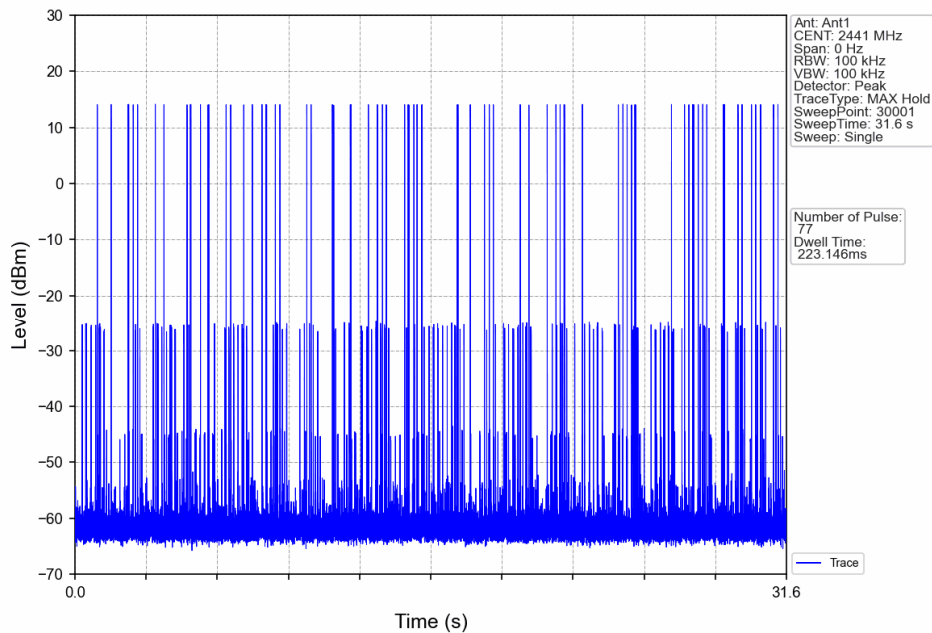
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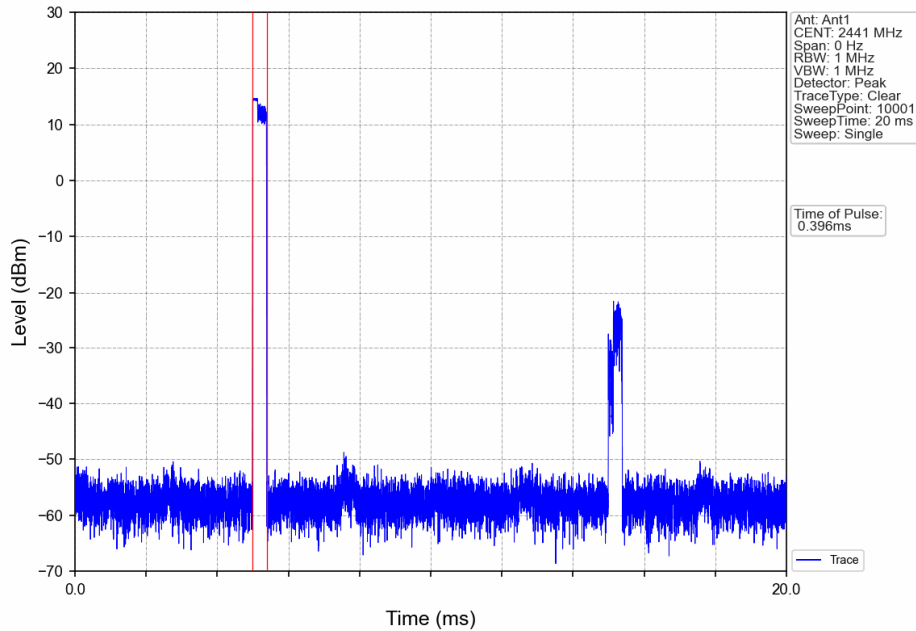
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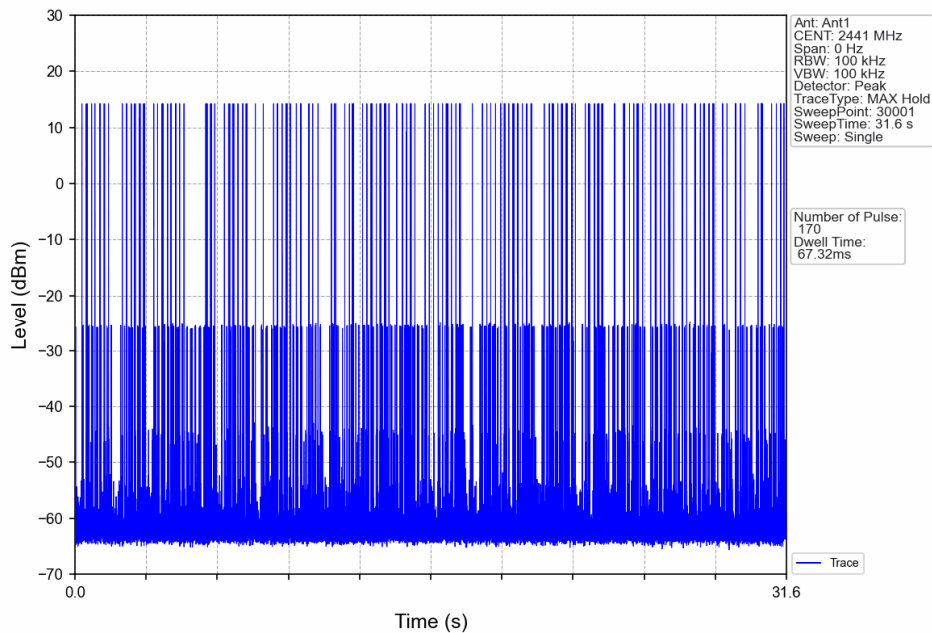
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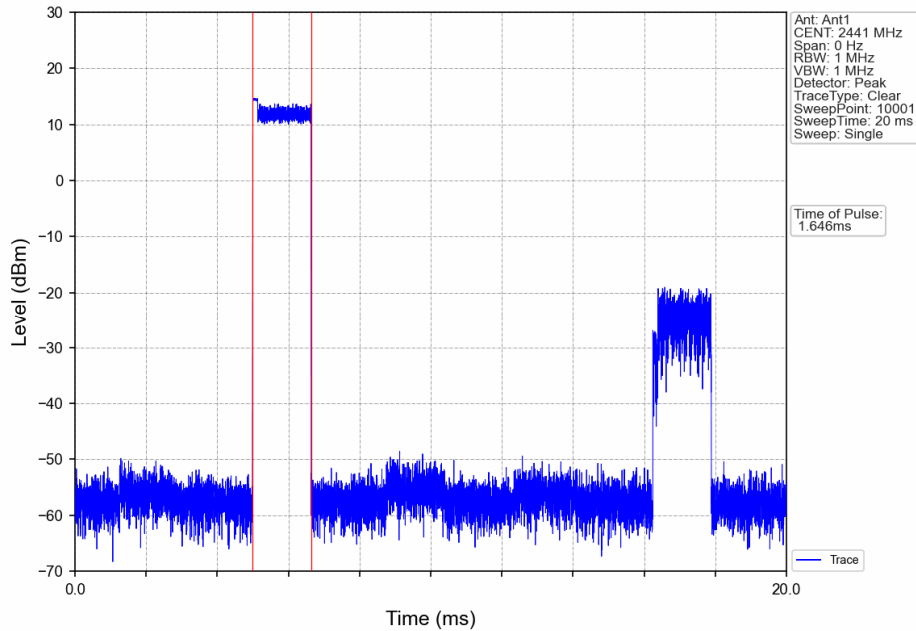
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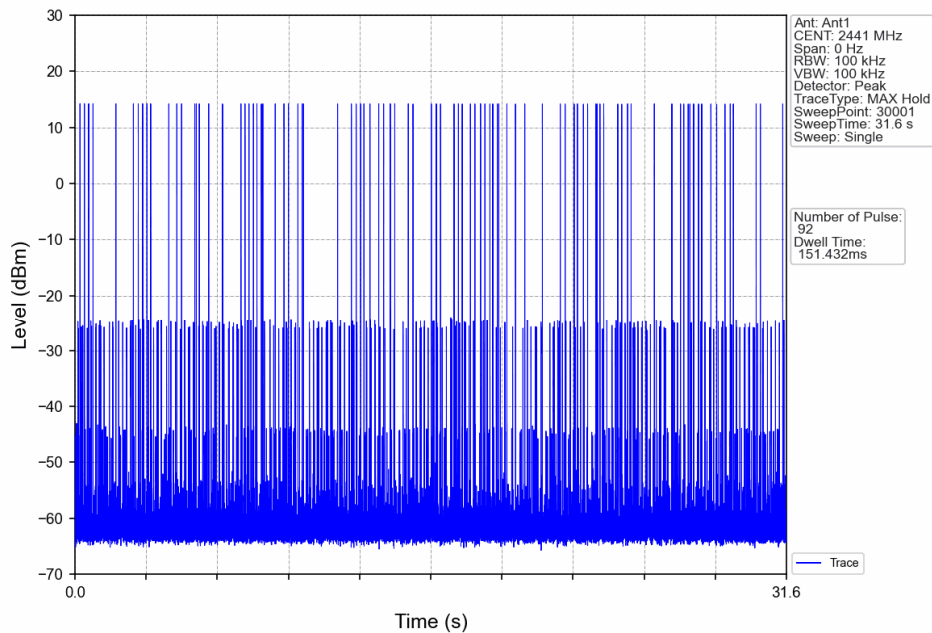
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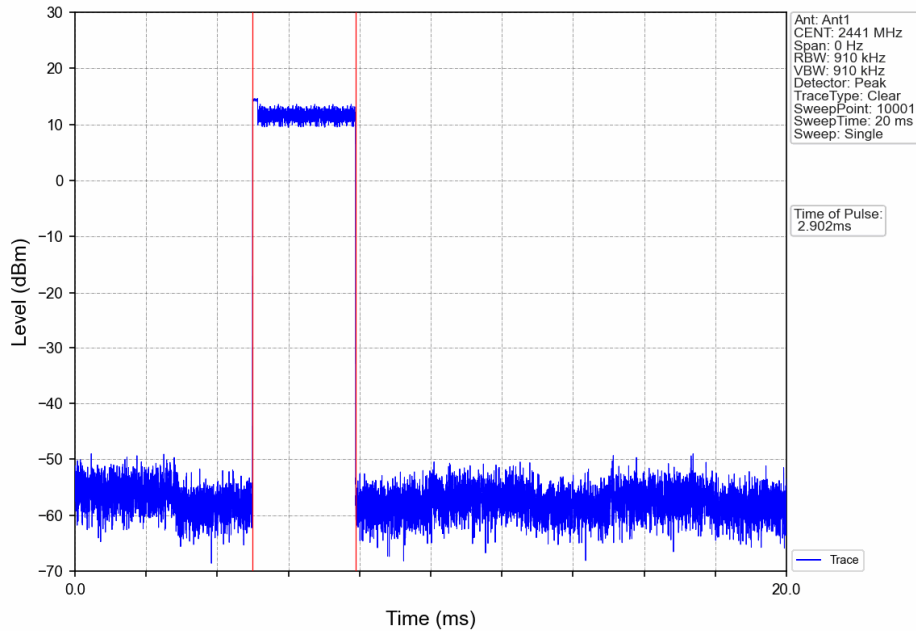
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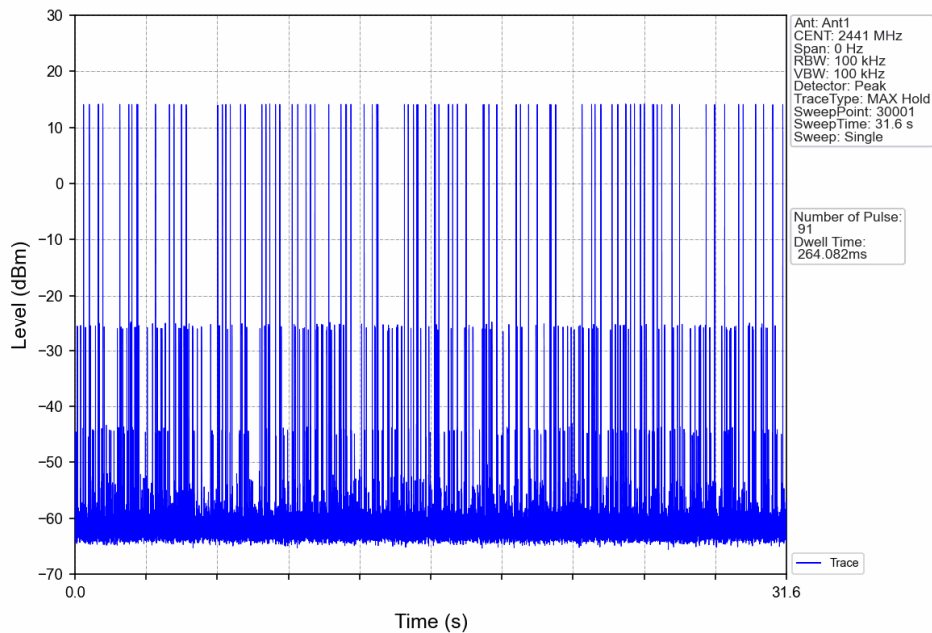
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



7. Unwanted Emissions In Non-restricted Frequency Bands

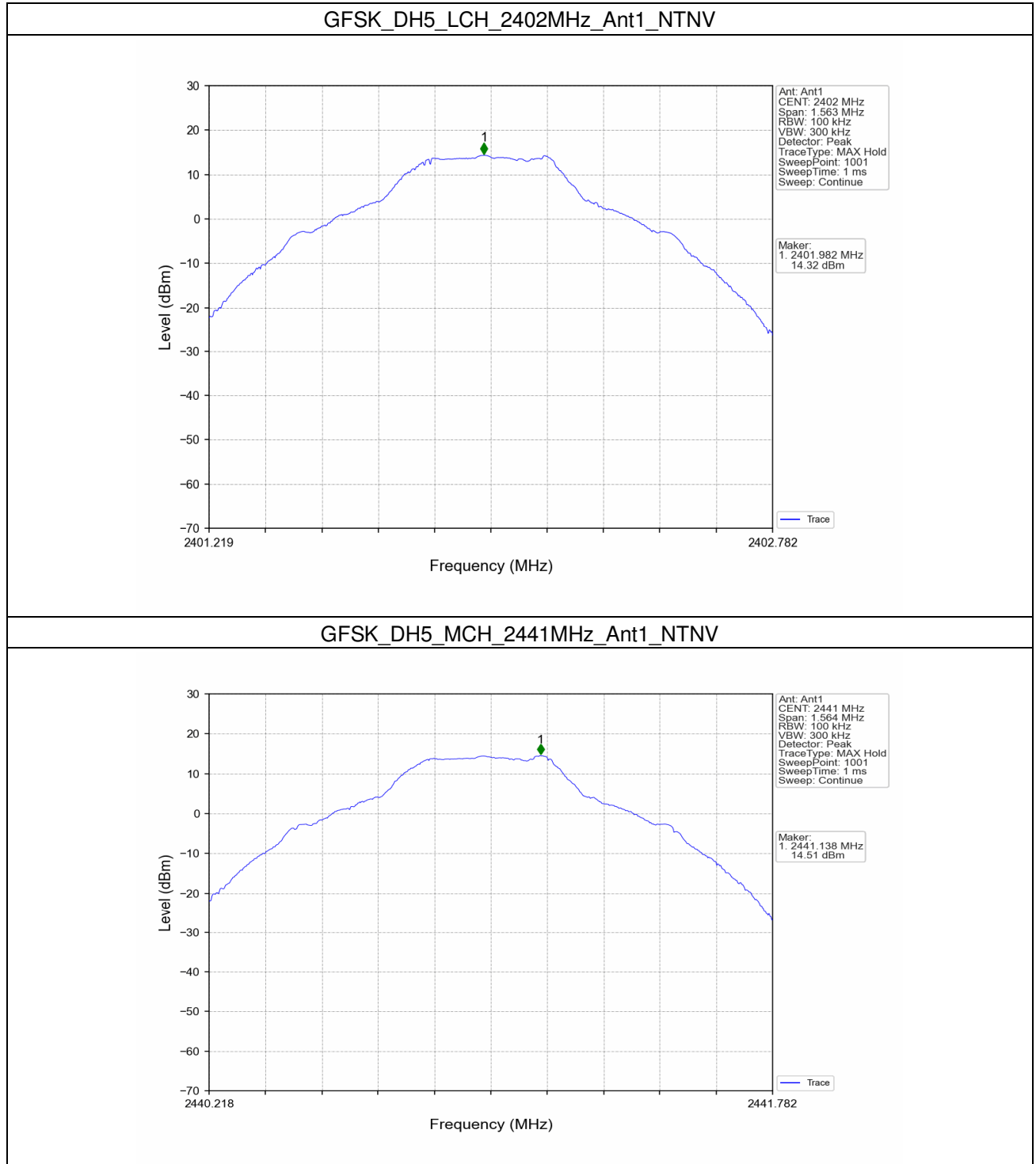
7.1 Ref

7.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	14.32
		2441	DH5	1	14.51
		2480	DH5	1	14.59
Pi/4DQPSK	SISO	2402	2DH5	1	14.34
		2441	2DH5	1	14.46
		2480	2DH5	1	14.54
8DPSK	SISO	2402	3DH5	1	14.36
		2441	3DH5	1	14.55
		2480	3DH5	1	14.71



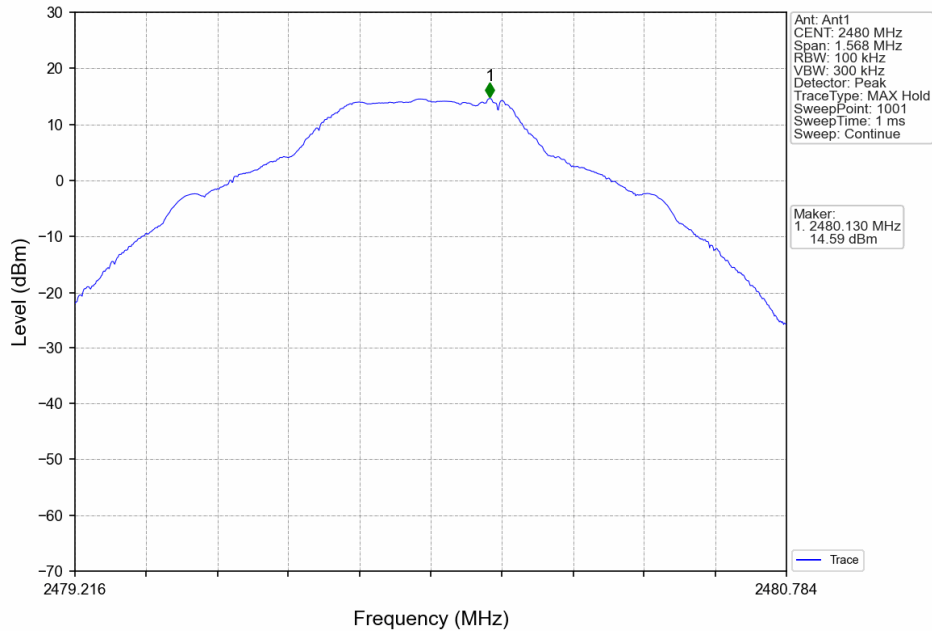
7.1.2 Test Graph



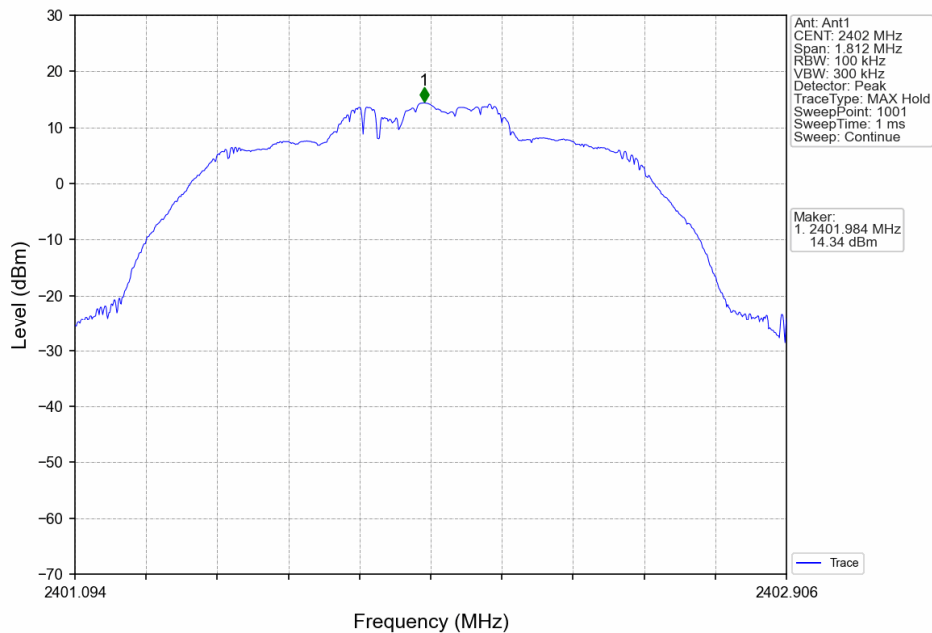
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GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



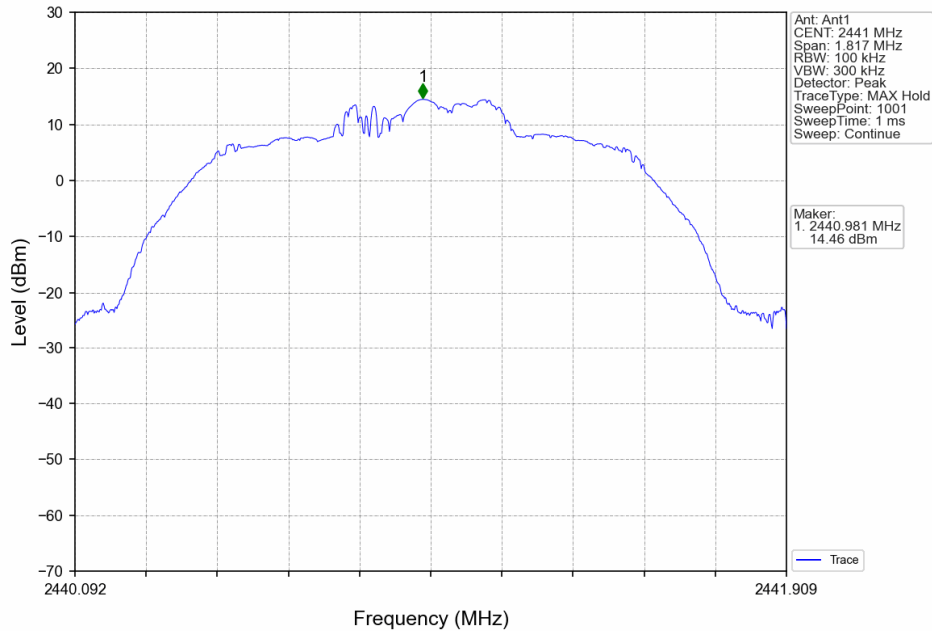
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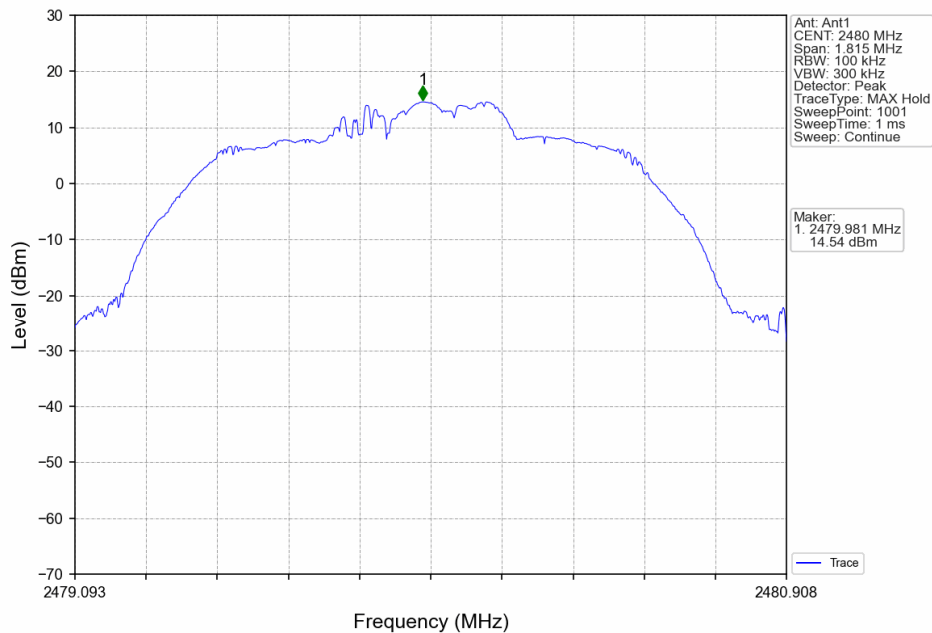
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



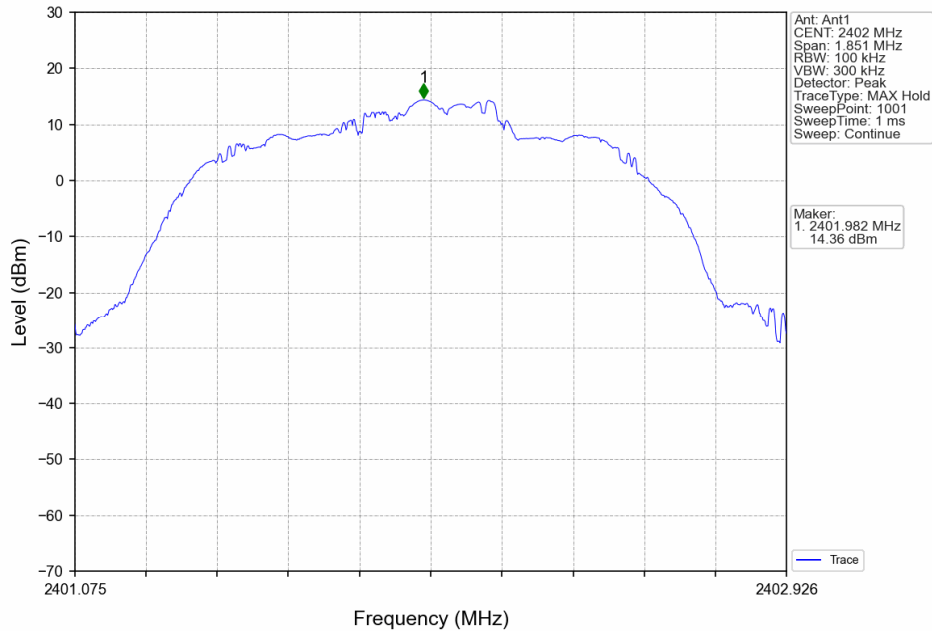
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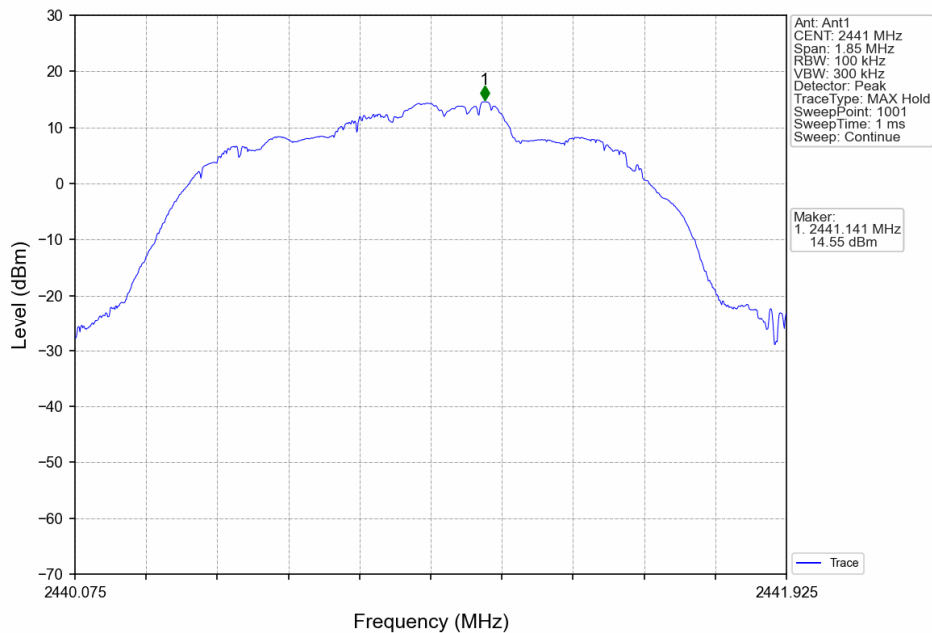
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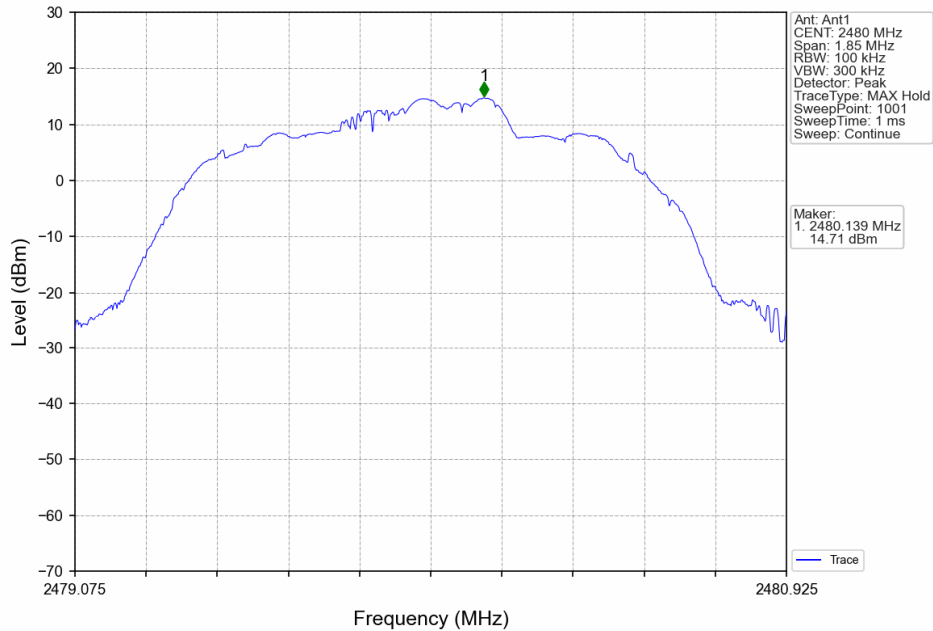
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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7.2 CSE

7.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	14.59	-5.41	Pass
		2441	DH5	1	14.59	-5.41	Pass
		2480	DH5	1	14.59	-5.41	Pass
		HOPP	DH5	1	14.59	-5.41	Pass
					14.59	-5.41	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	14.54	-5.46	Pass
		2441	2DH5	1	14.54	-5.46	Pass
		2480	2DH5	1	14.54	-5.46	Pass
		HOPP	2DH5	1	14.54	-5.46	Pass
					14.54	-5.46	Pass
8DPSK	SISO	2402	3DH5	1	14.71	-5.29	Pass
		2441	3DH5	1	14.71	-5.29	Pass
		2480	3DH5	1	14.71	-5.29	Pass
		HOPP	3DH5	1	14.71	-5.29	Pass
					14.71	-5.29	Pass



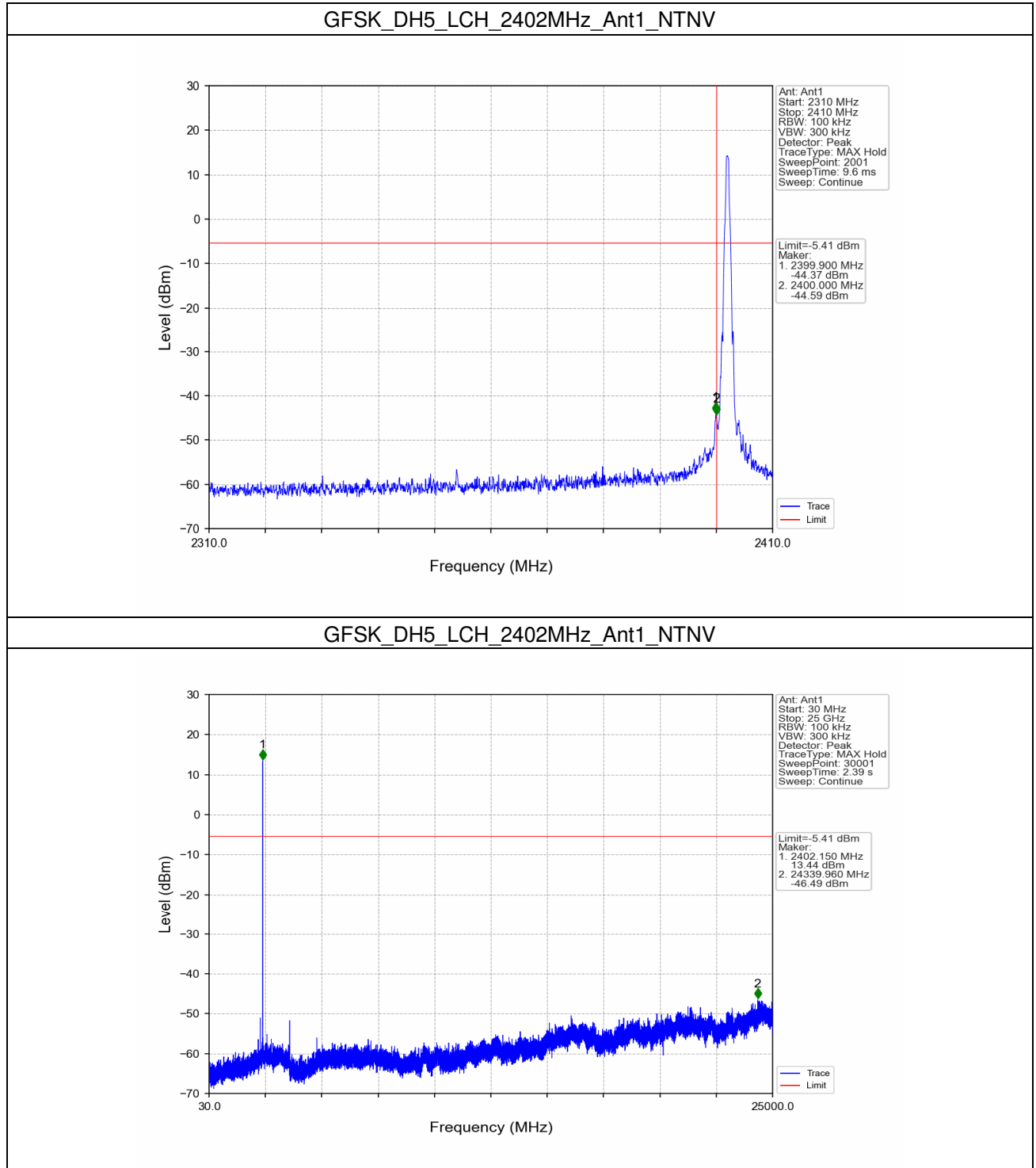
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7.2.2 Test Graph



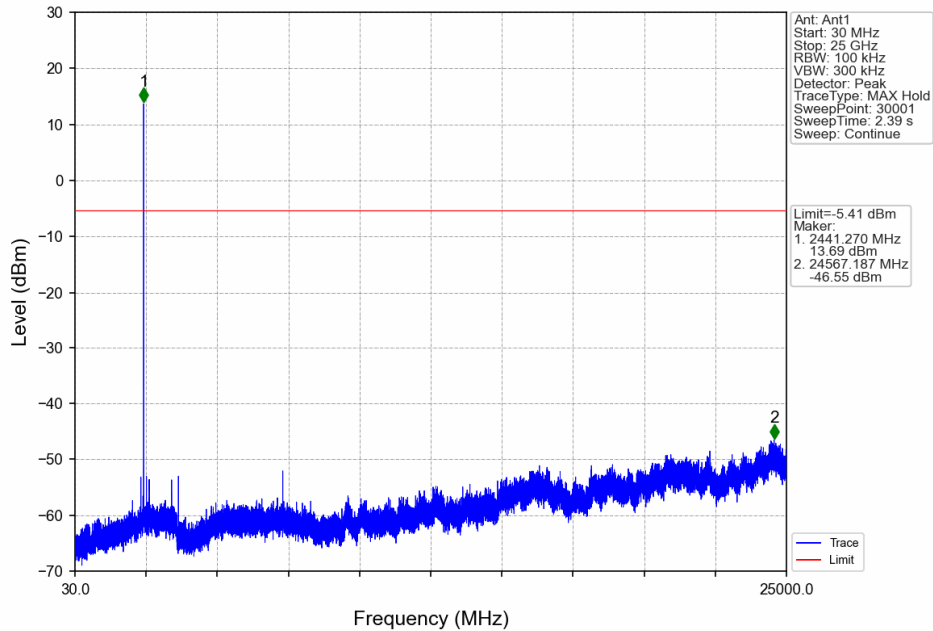
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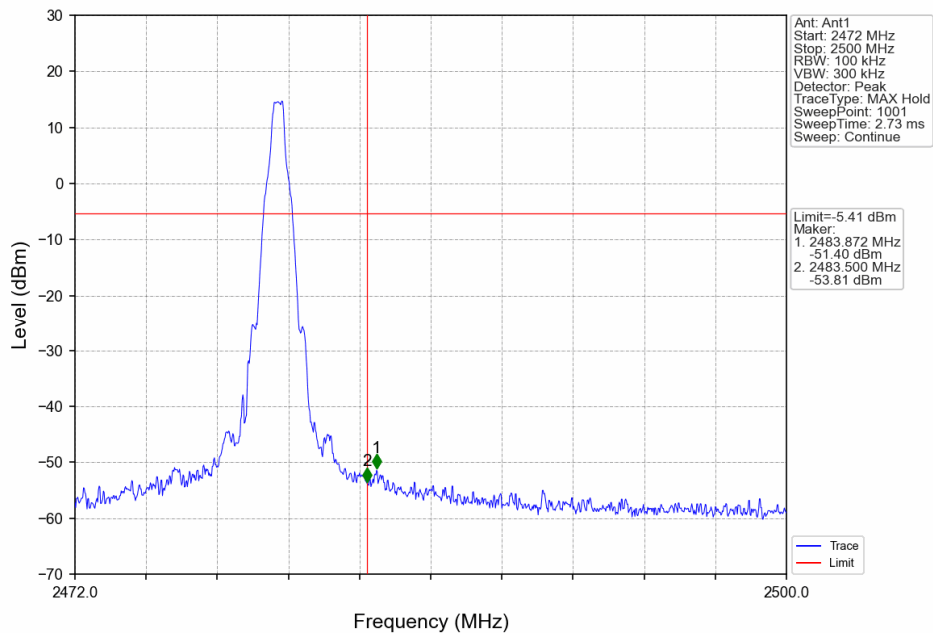
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GFSK_DH5_MCH_2441MHz_Ant1_NTNV



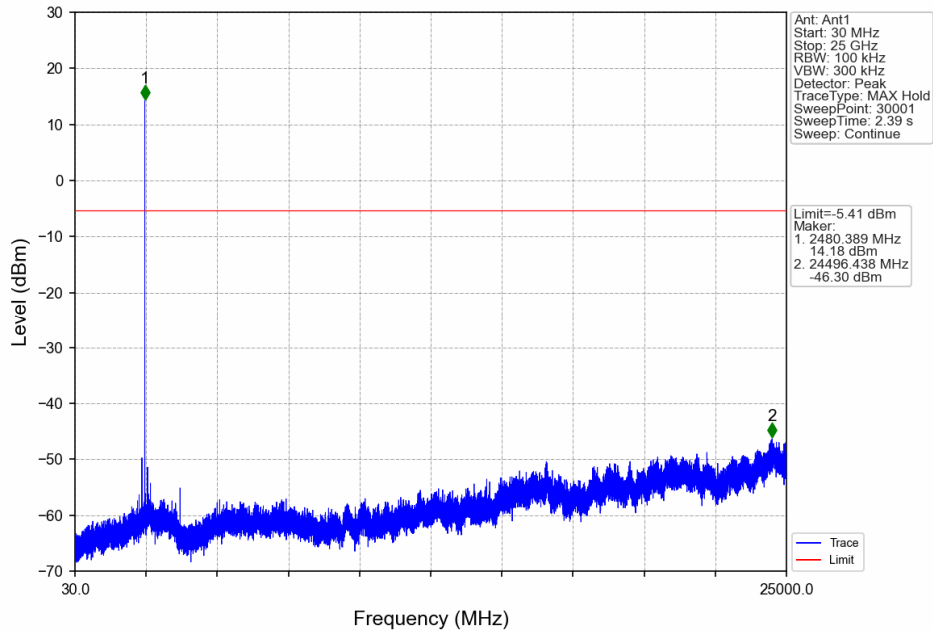
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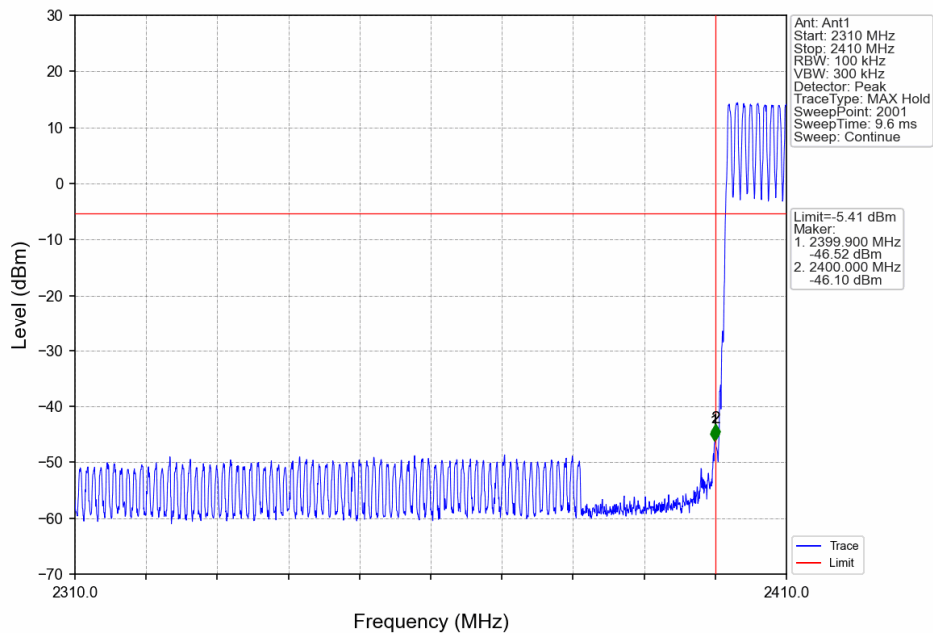
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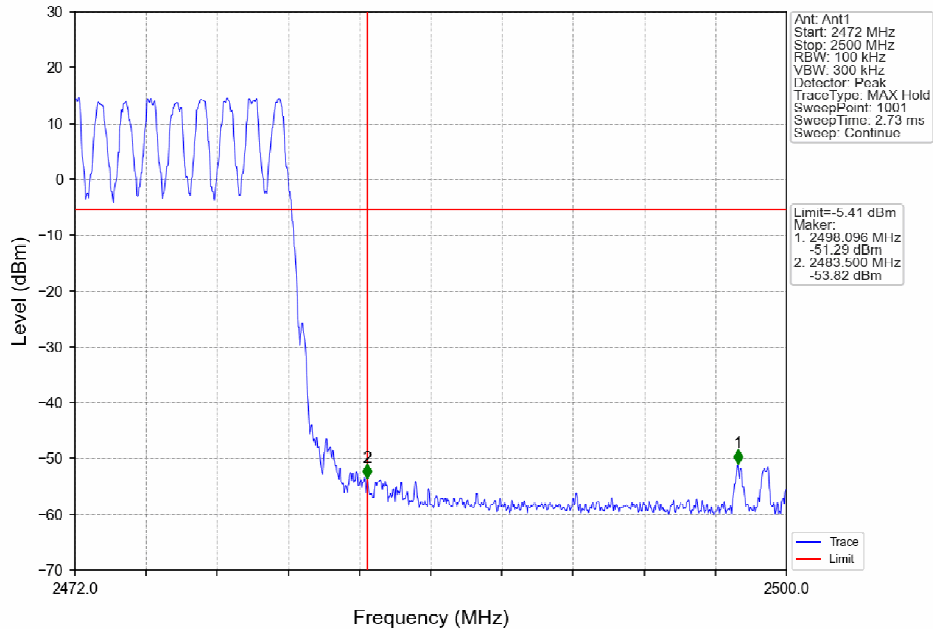
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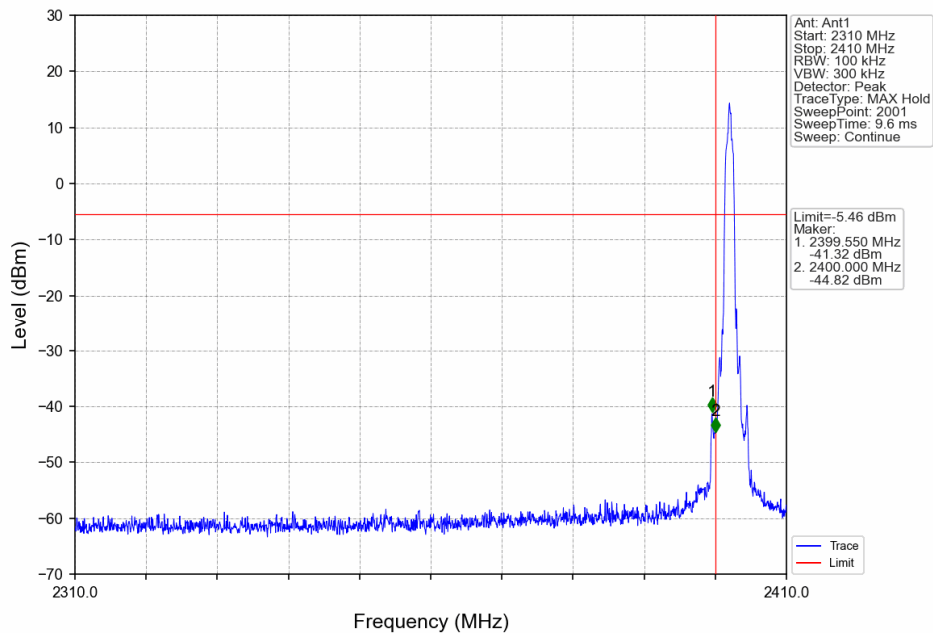
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GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



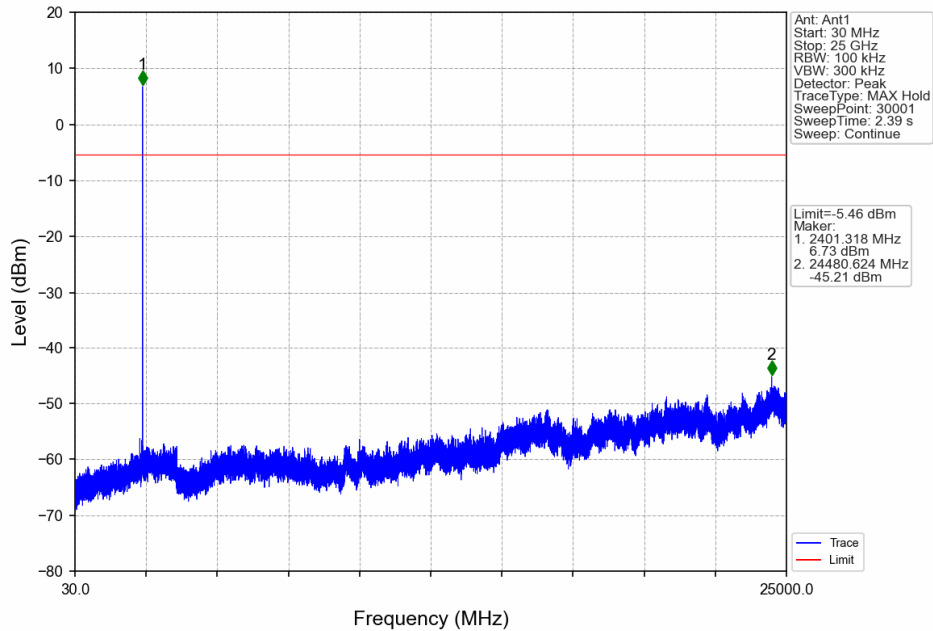
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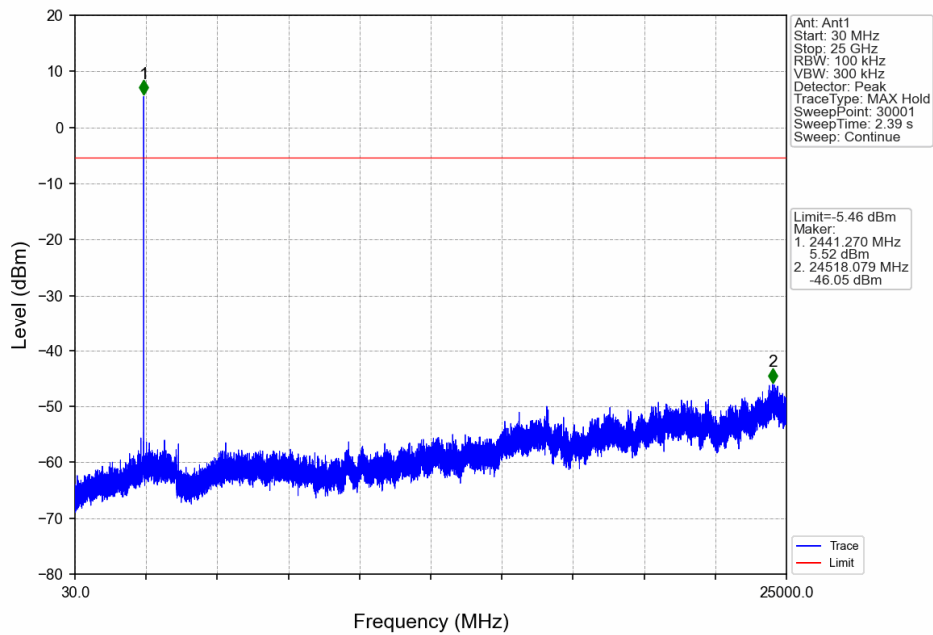
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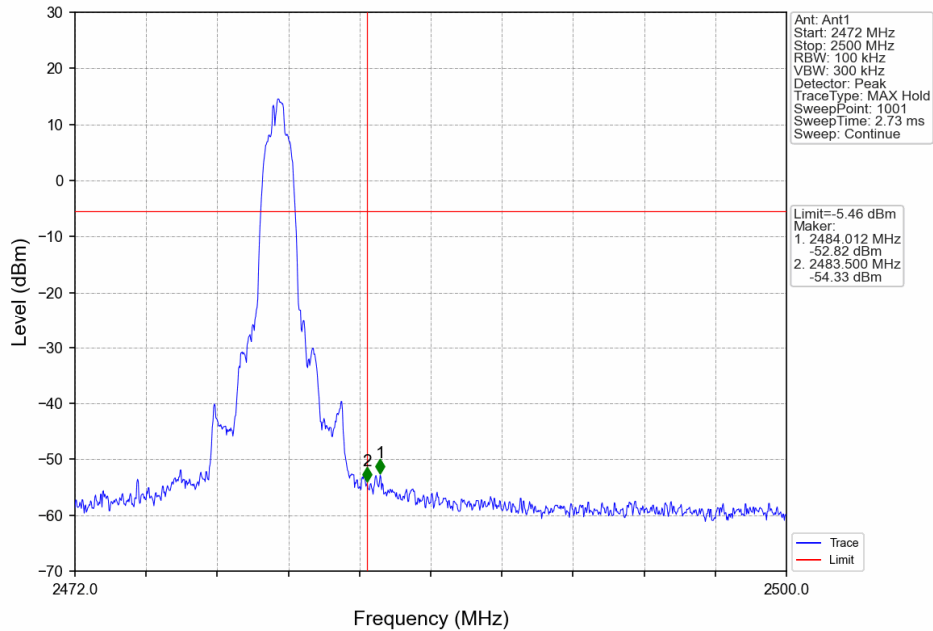
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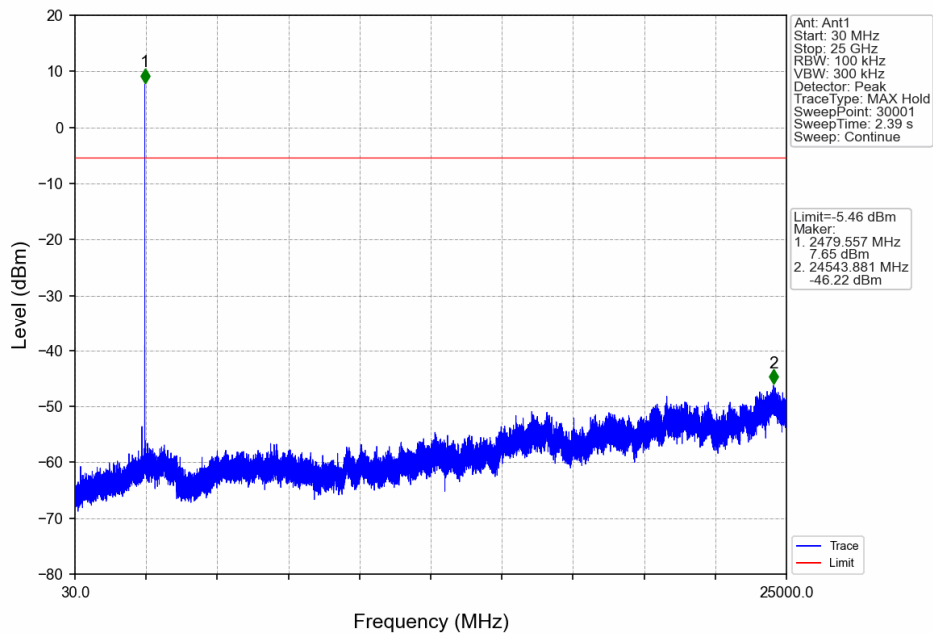
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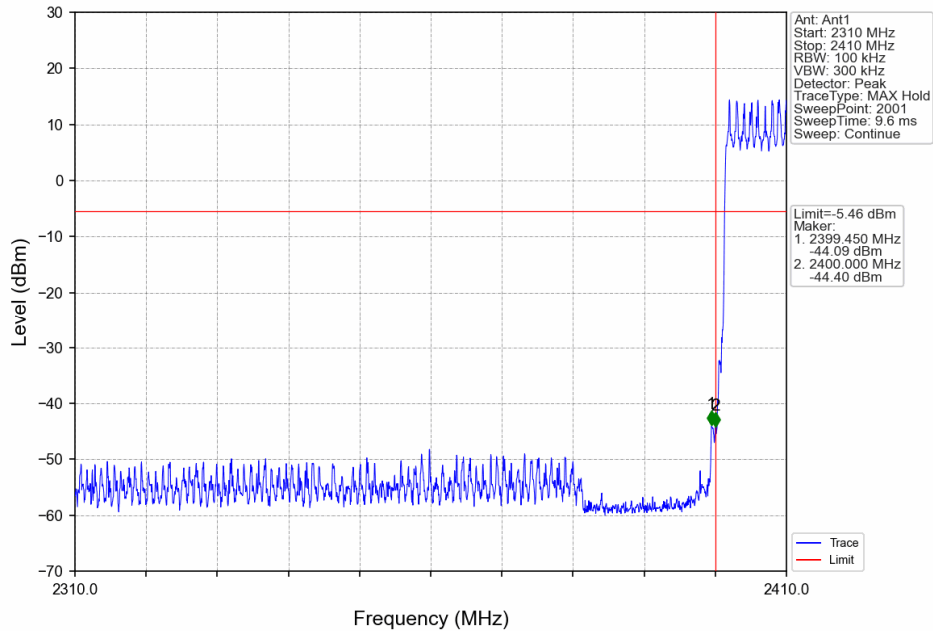
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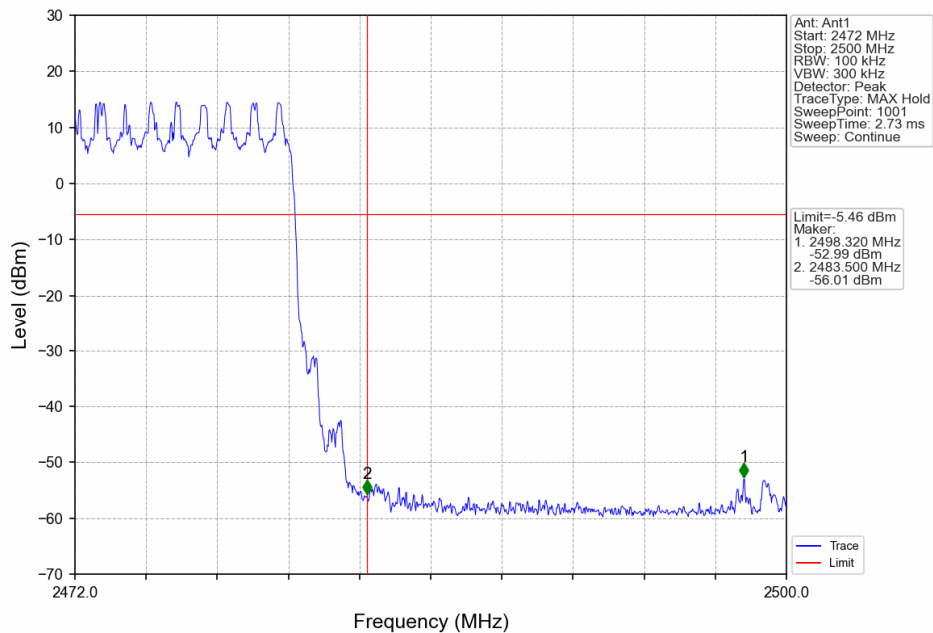
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



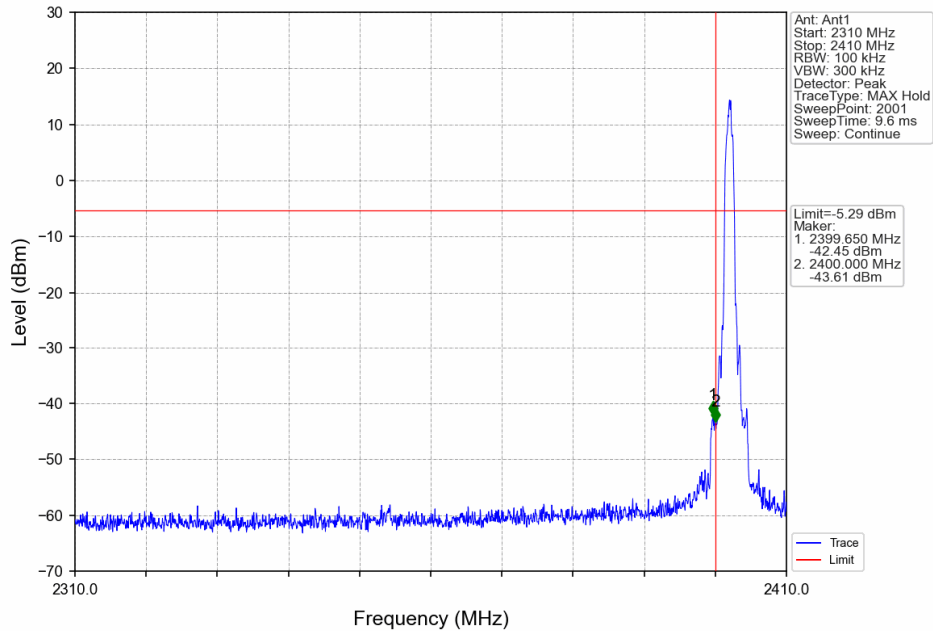
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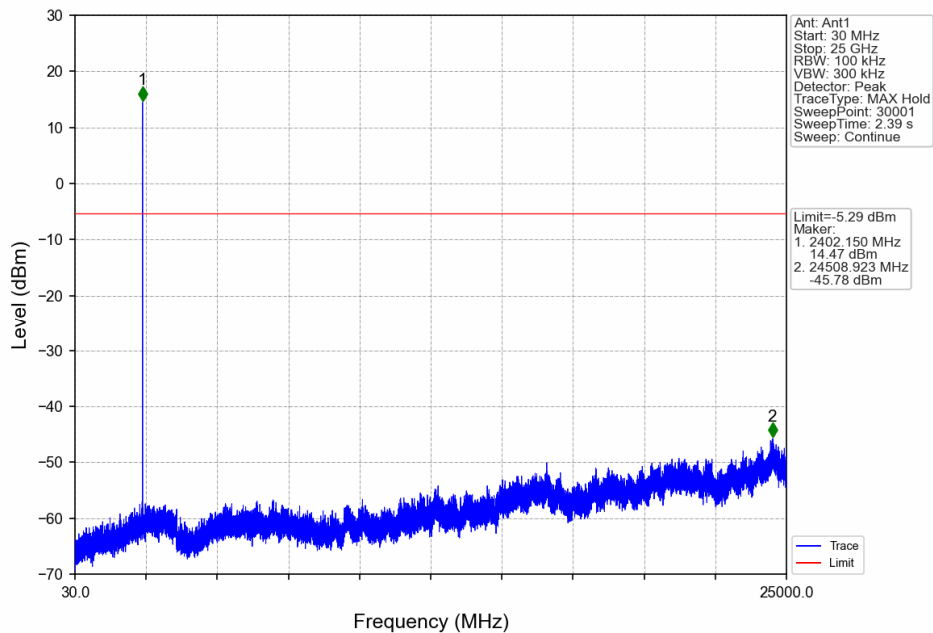
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Shenzhen Branch Testing & Calibration Laboratory

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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



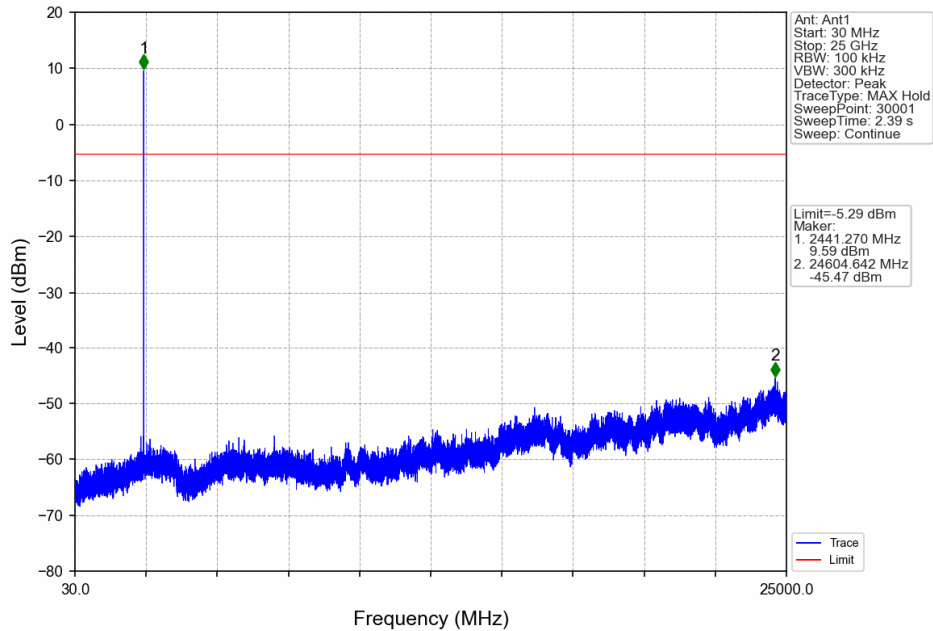
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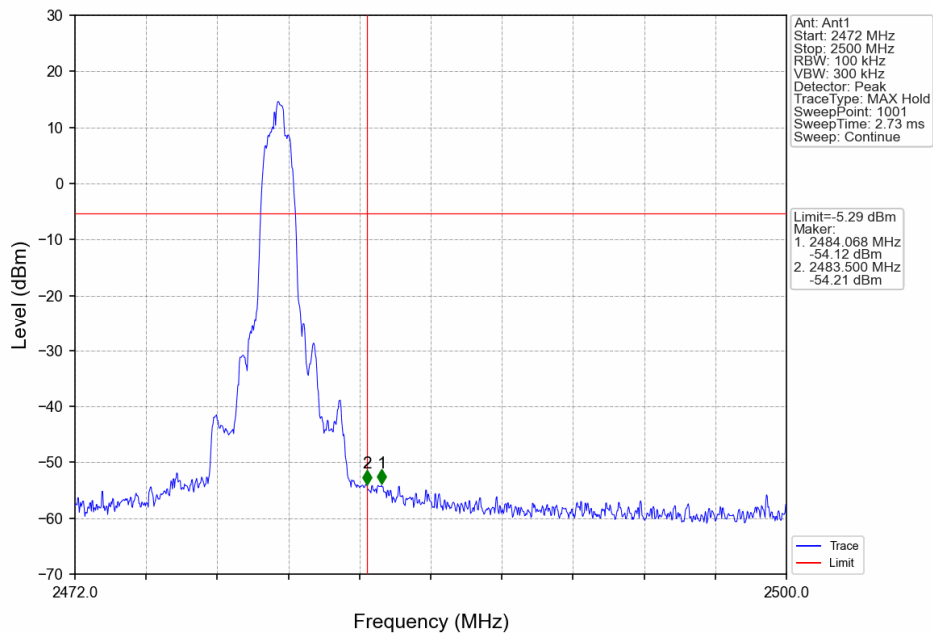
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8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



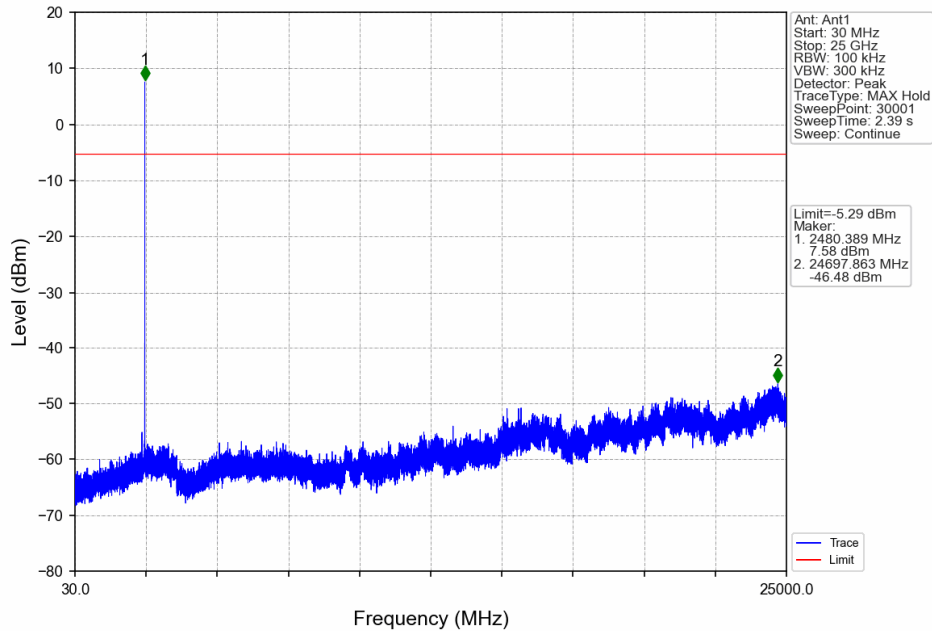
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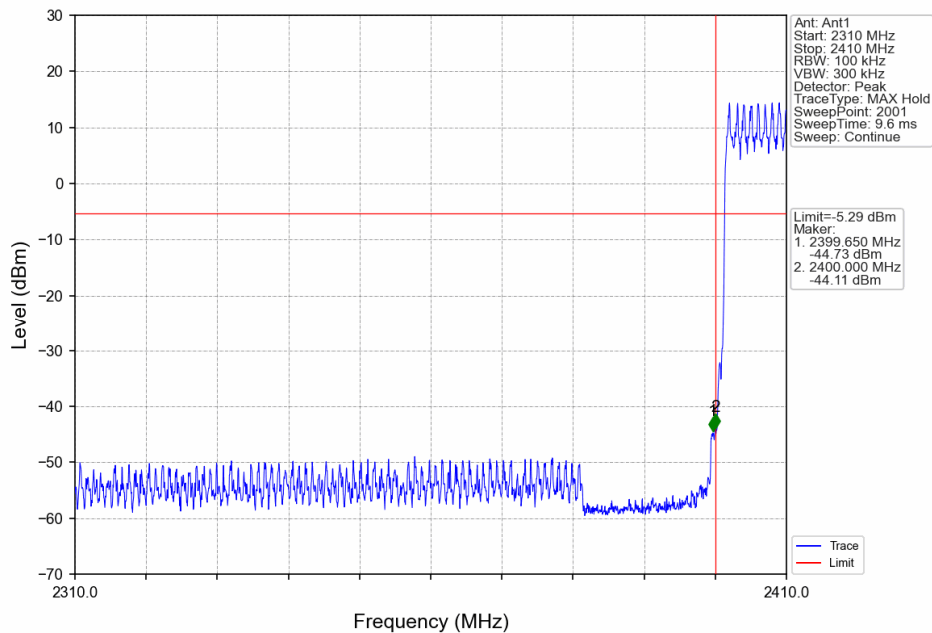
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV

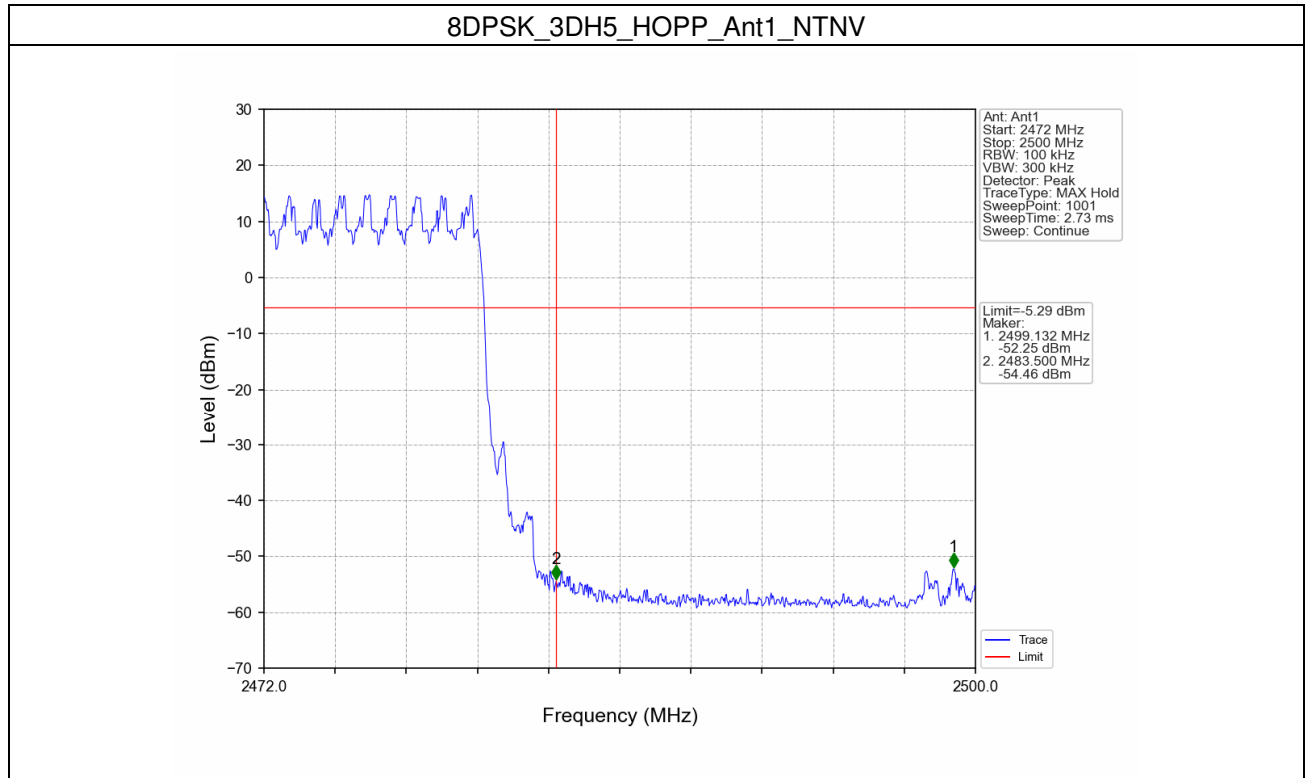


8DPSK_3DH5_HOPP_Ant1_NTNV



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- End of the Report -

