

1. Bandwidth

1.1 Test Result

1.1.1 OBW

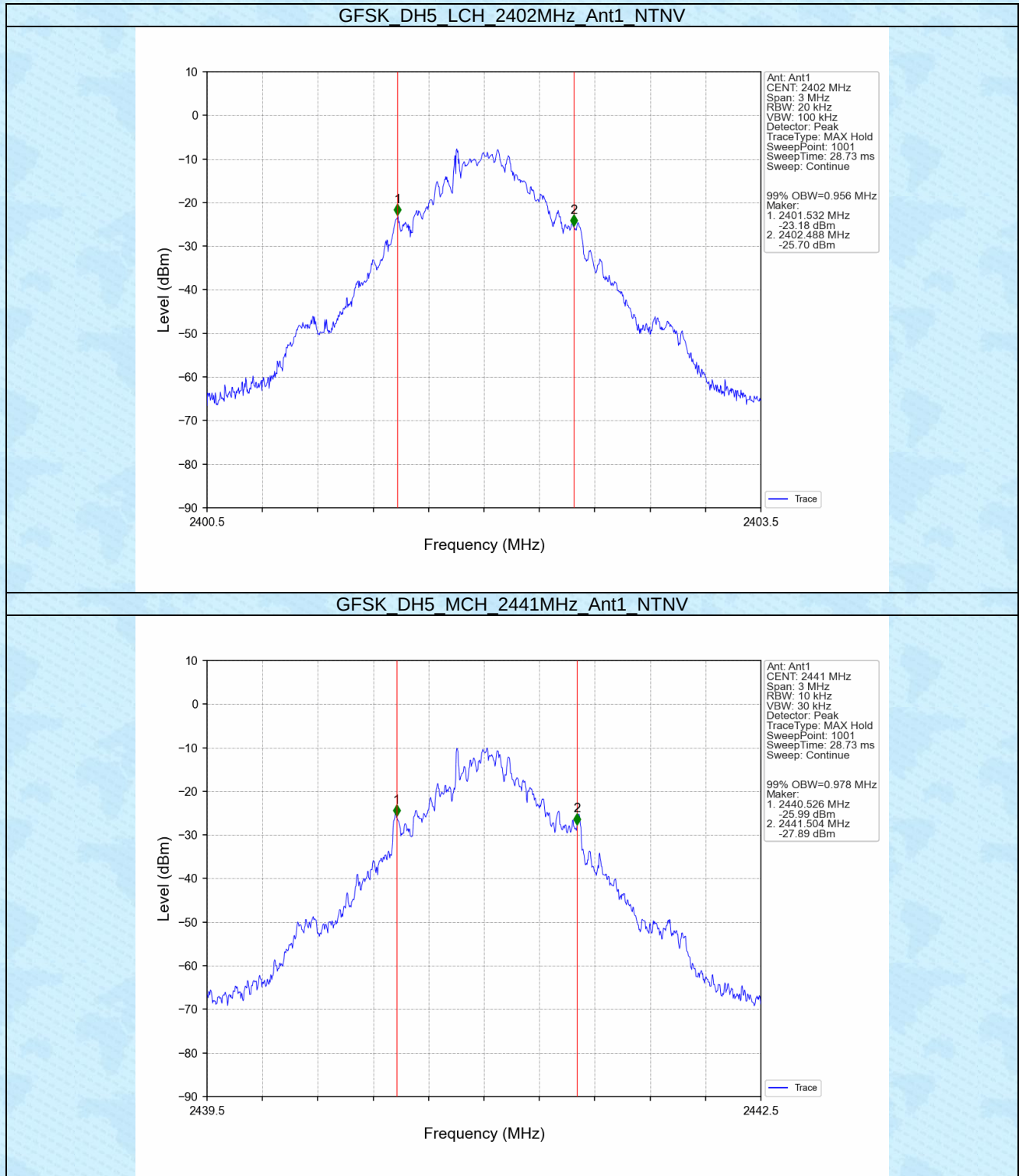
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.956	/	Pass
		2441	DH5	1	0.978	/	Pass
		2480	DH5	1	0.985	/	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.217	/	Pass
		2441	2DH5	1	1.229	/	Pass
		2480	2DH5	1	1.240	/	Pass
8-DPSK	SISO	2402	3DH5	1	1.219	/	Pass
		2441	3DH5	1	1.221	/	Pass
		2480	3DH5	1	1.219	/	Pass

1.1.2 20dB BW

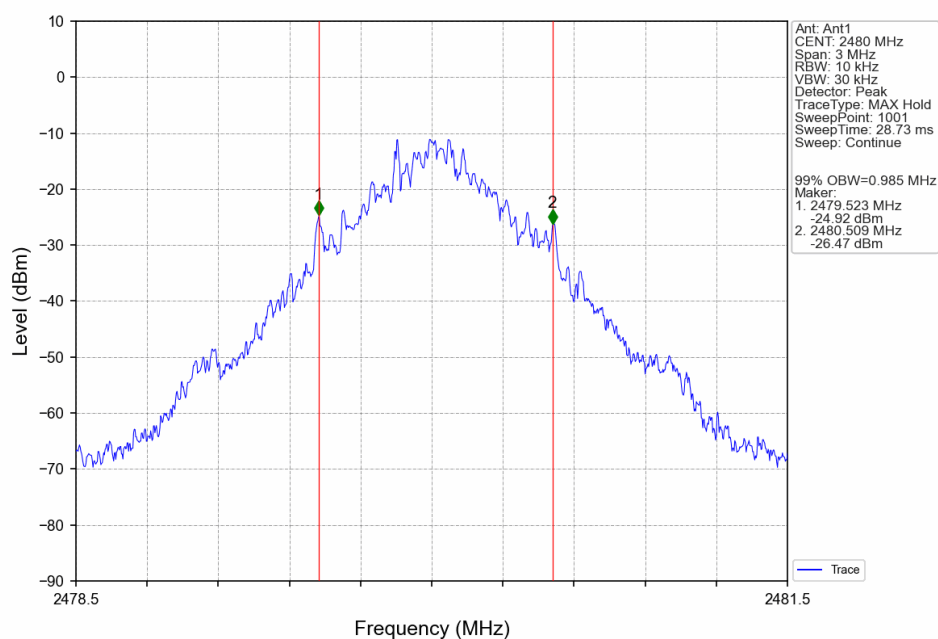
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	1.026	/	Pass
		2441	DH5	1	1.028	/	Pass
		2480	DH5	1	1.032	/	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	1.315	/	Pass
		2441	2DH5	1	1.327	/	Pass
		2480	2DH5	1	1.326	/	Pass
8-DPSK	SISO	2402	3DH5	1	1.291	/	Pass
		2441	3DH5	1	1.292	/	Pass
		2480	3DH5	1	1.267	/	Pass

1.2 Test Graph

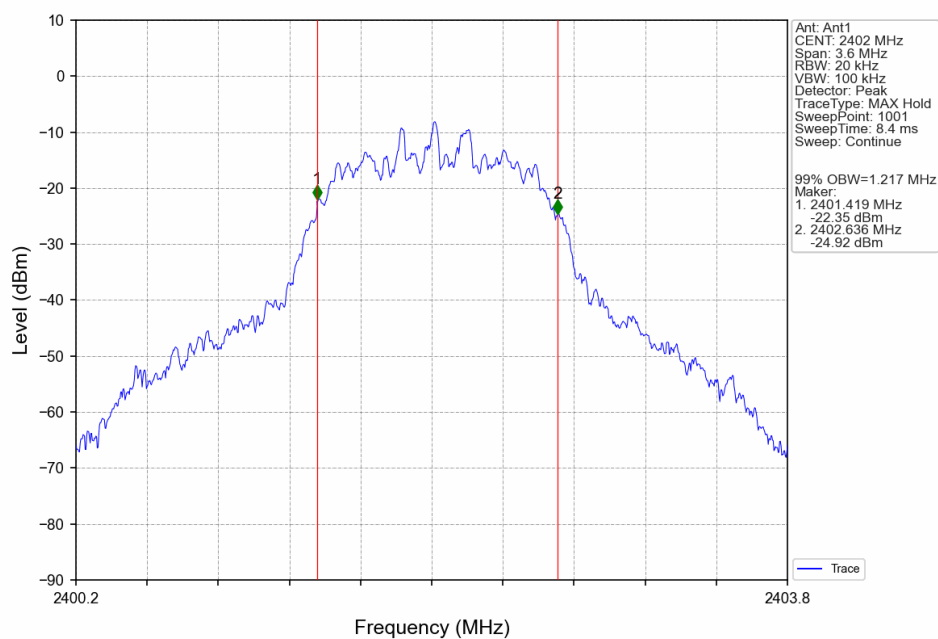
1.2.1 OBW



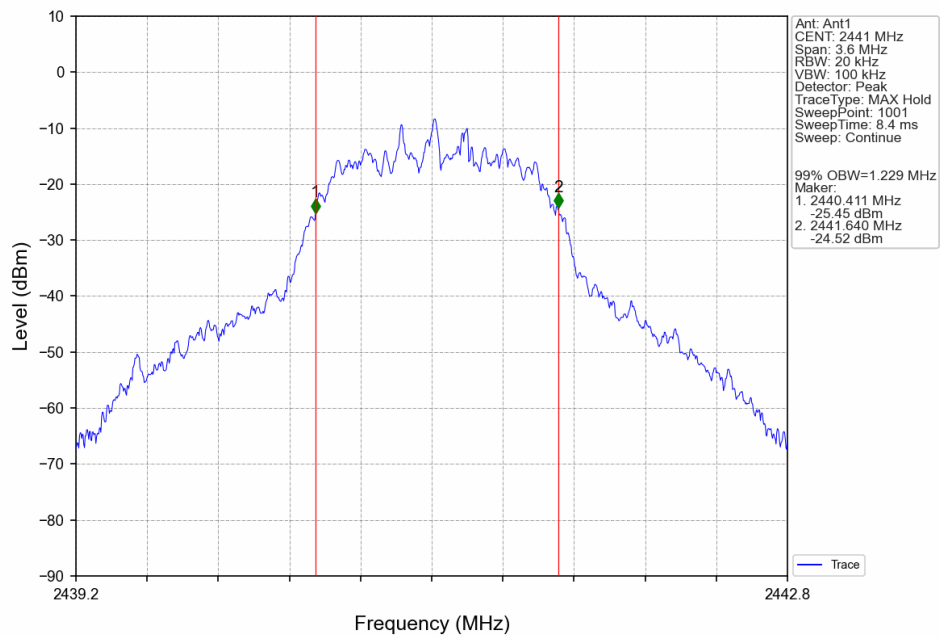
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



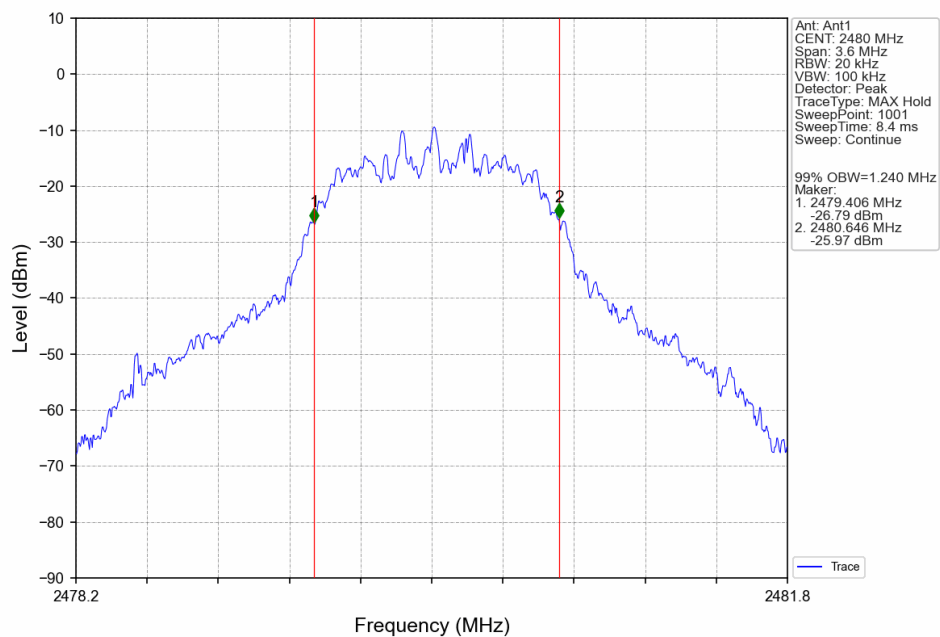
$\pi/4$ -DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



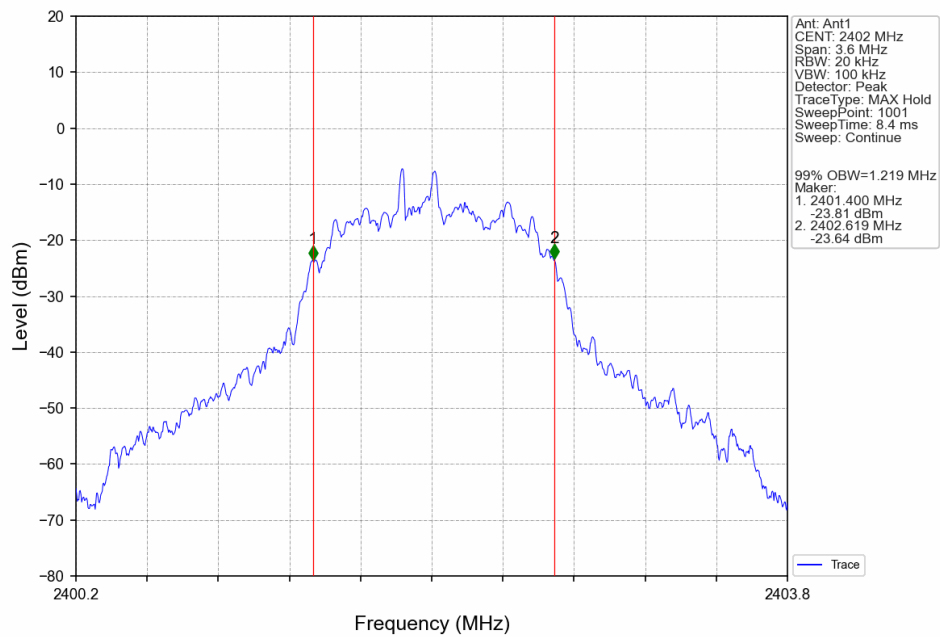
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



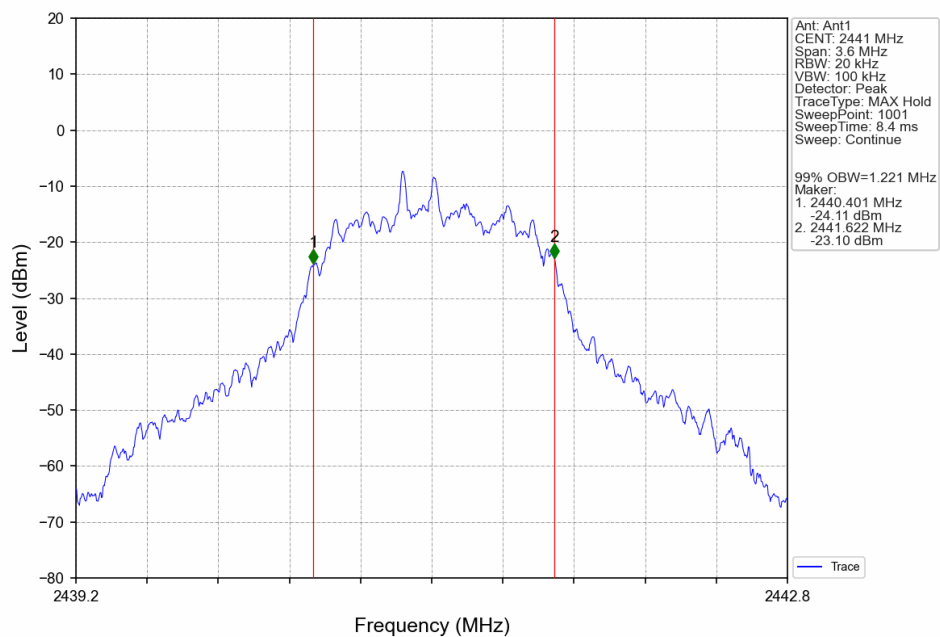
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV

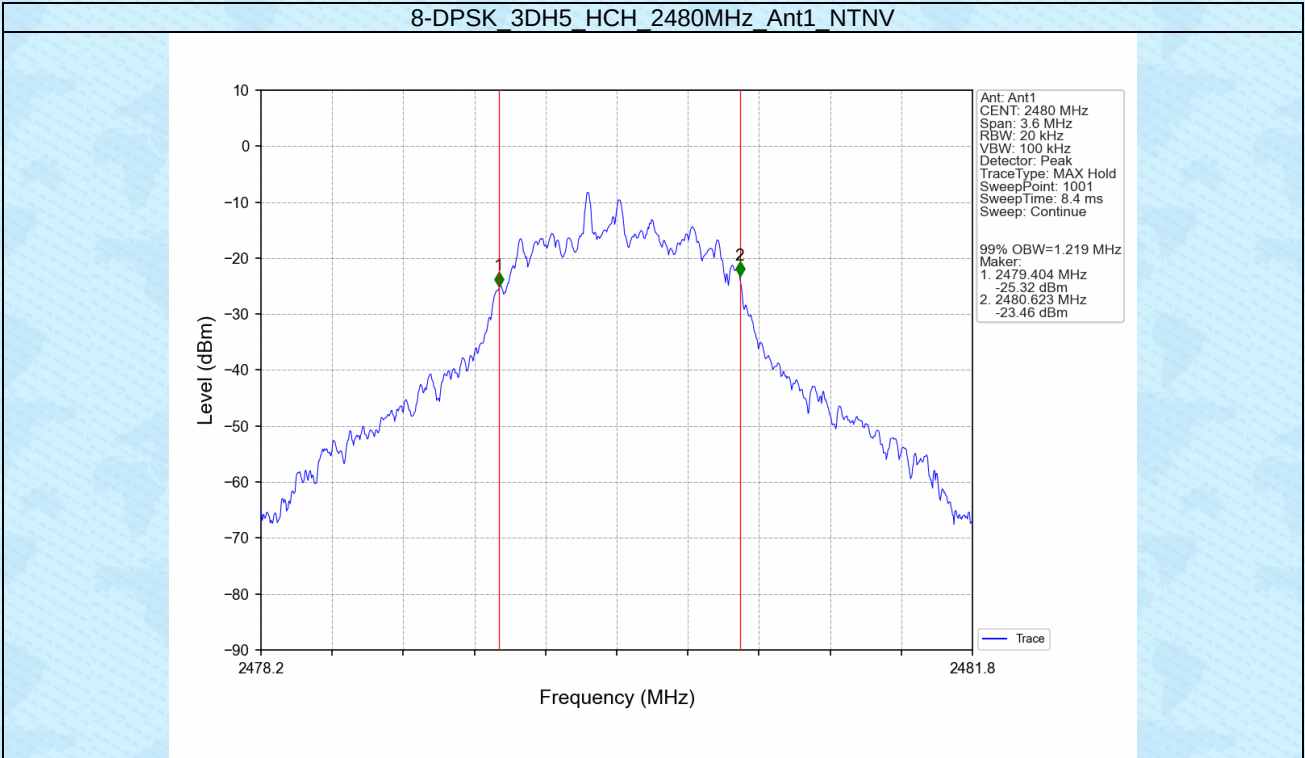


8-DPSK 3DH5 LCH 2402MHz Ant1 NTN

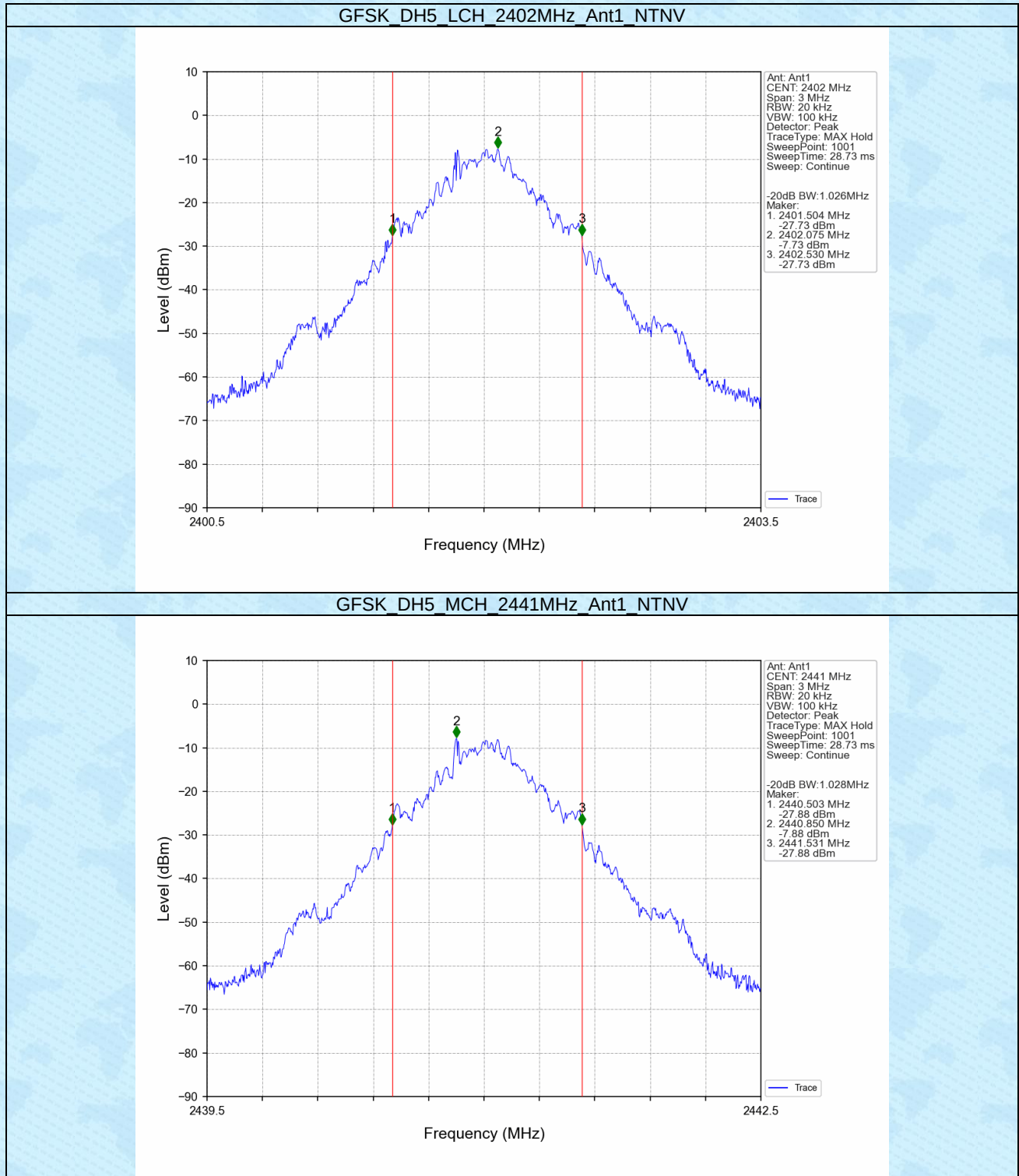


8-DPSK 3DH5 MCH 2441MHz Ant1 NTN

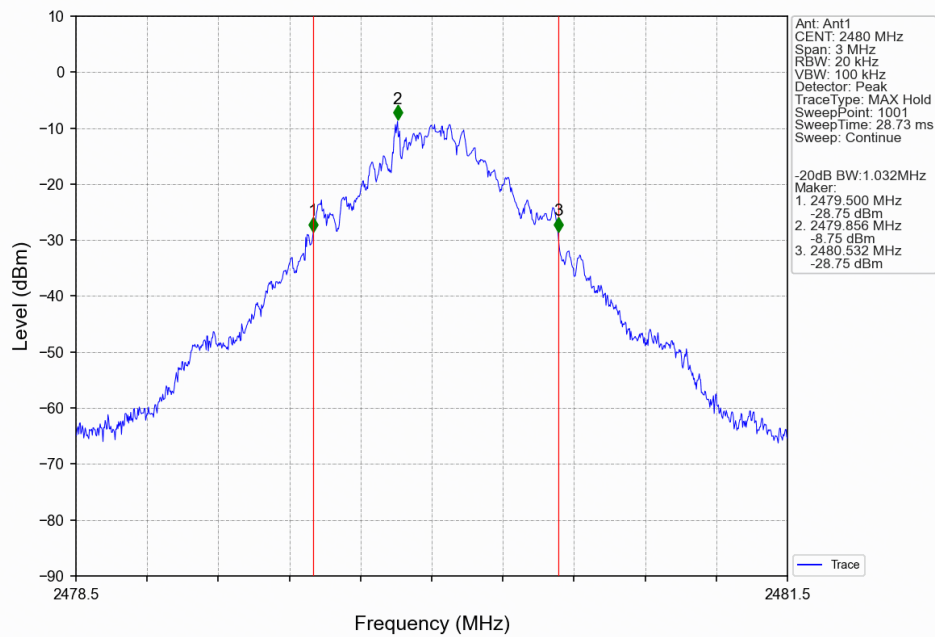




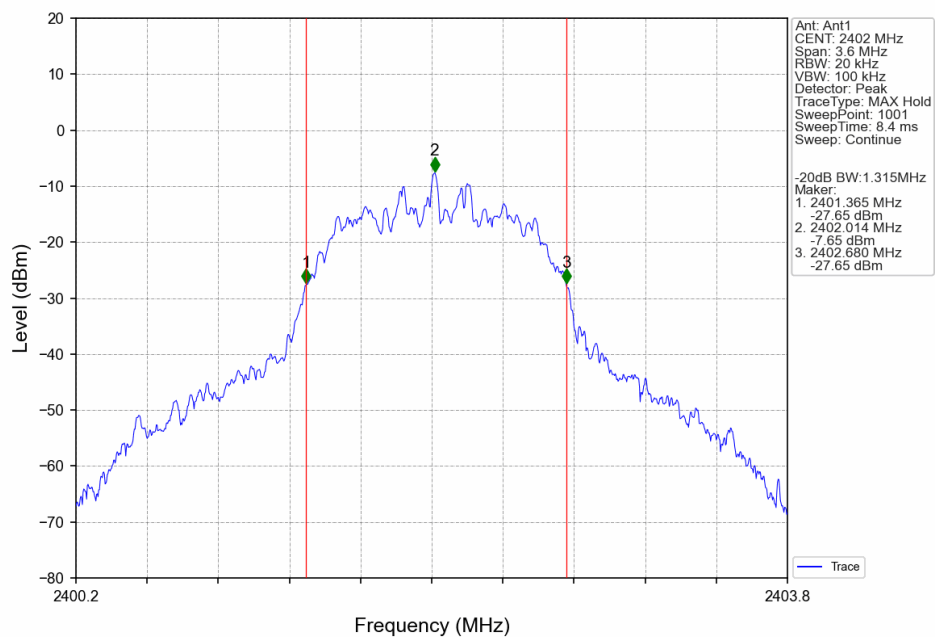
1.2.2 20dB BW



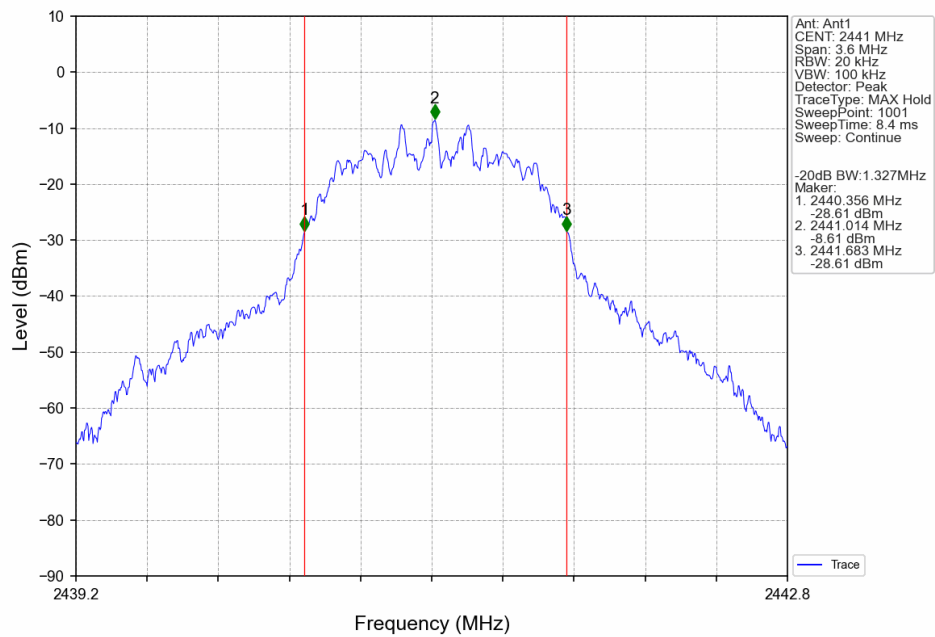
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



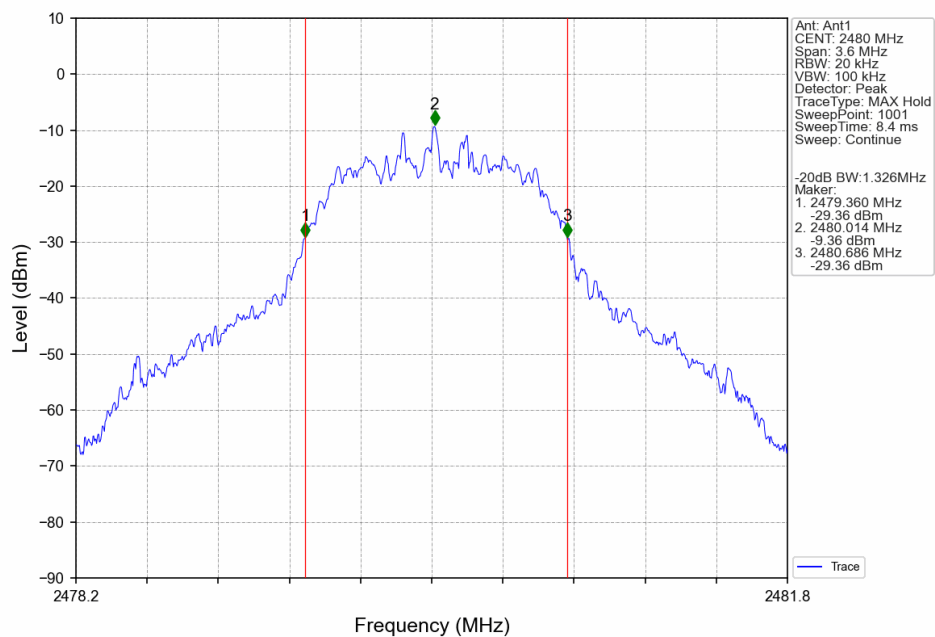
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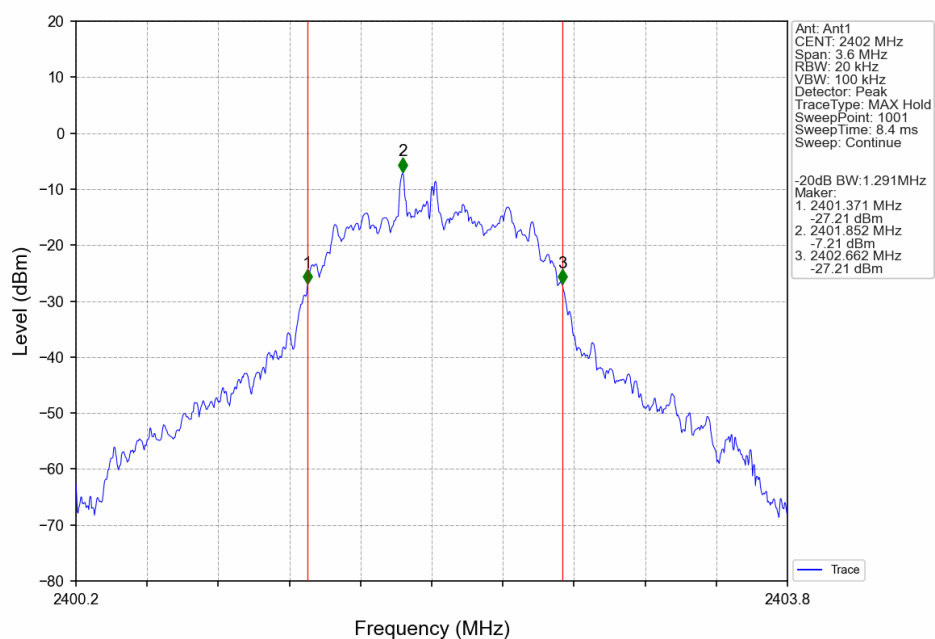
$\pi/4$ -DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



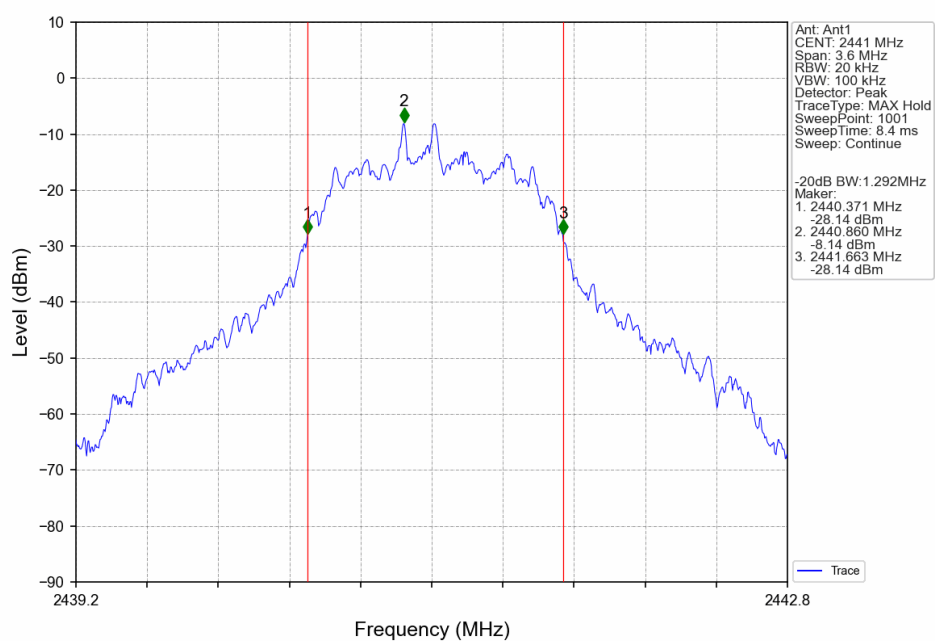
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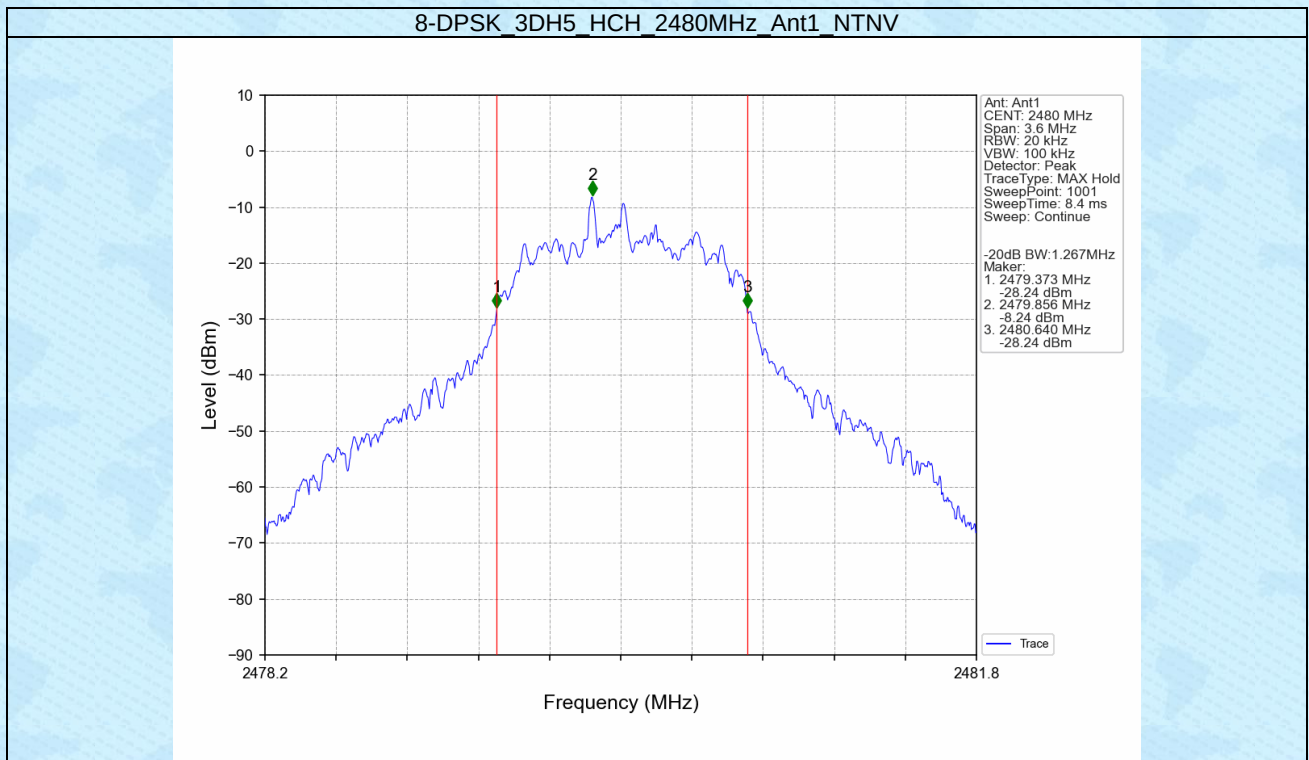


8-DPSK 3DH5 LCH 2402MHz Ant1 NTN



8-DPSK 3DH5 MCH 2441MHz Ant1 NTN





2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	-3.99	<=20.97	Pass
		2441	DH5	-4.26	<=20.97	Pass
		2480	DH5	-4.81	<=20.97	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	-3.13	<=20.97	Pass
		2441	2DH5	-3.47	<=20.97	Pass
		2480	2DH5	-4.15	<=20.97	Pass
8-DPSK	SISO	2402	3DH5	-2.81	<=20.97	Pass
		2441	3DH5	-3.08	<=20.97	Pass
		2480	3DH5	-3.89	<=20.97	Pass

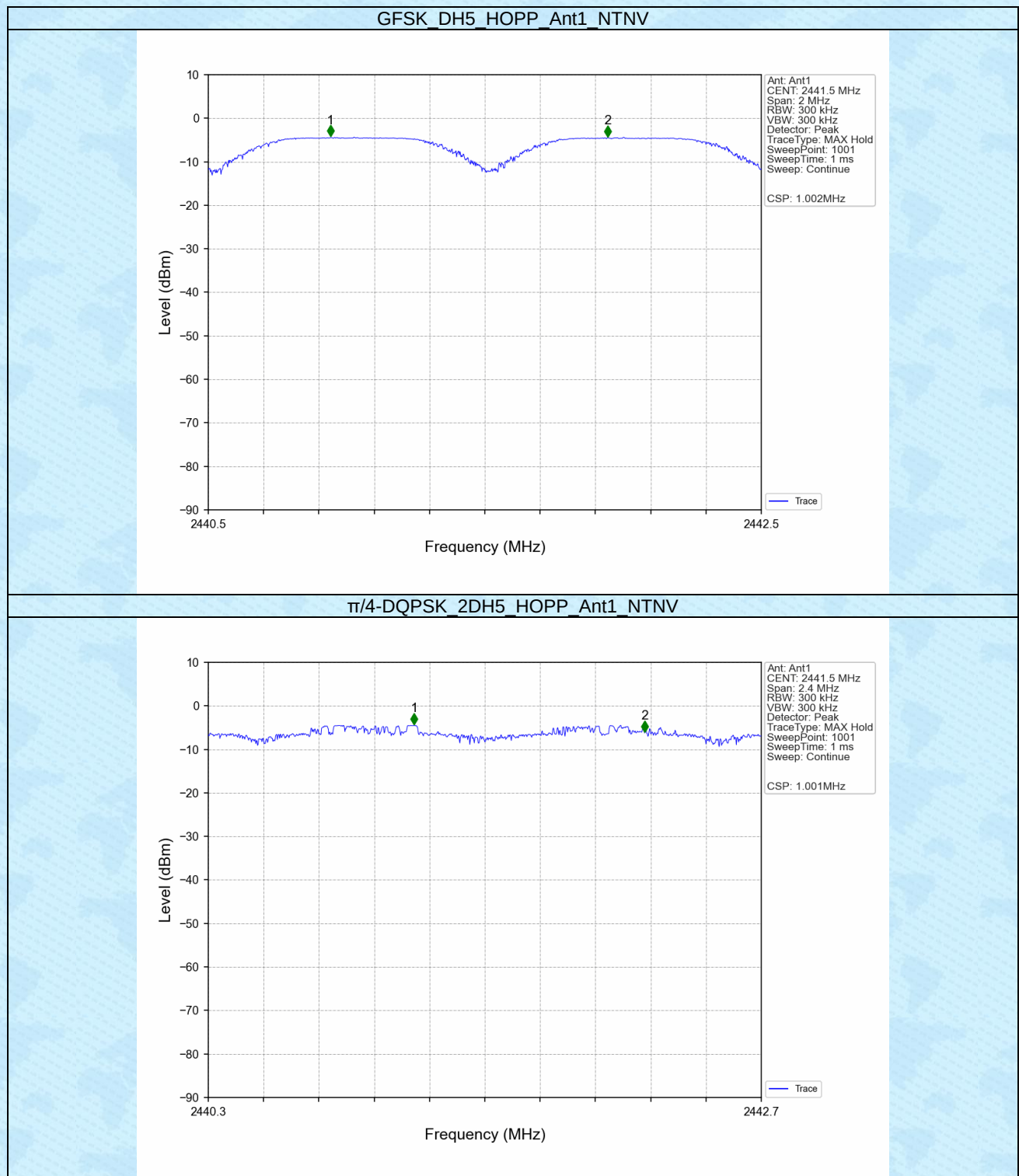
Note1: Antenna Gain: Ant1: -0.58dBi;

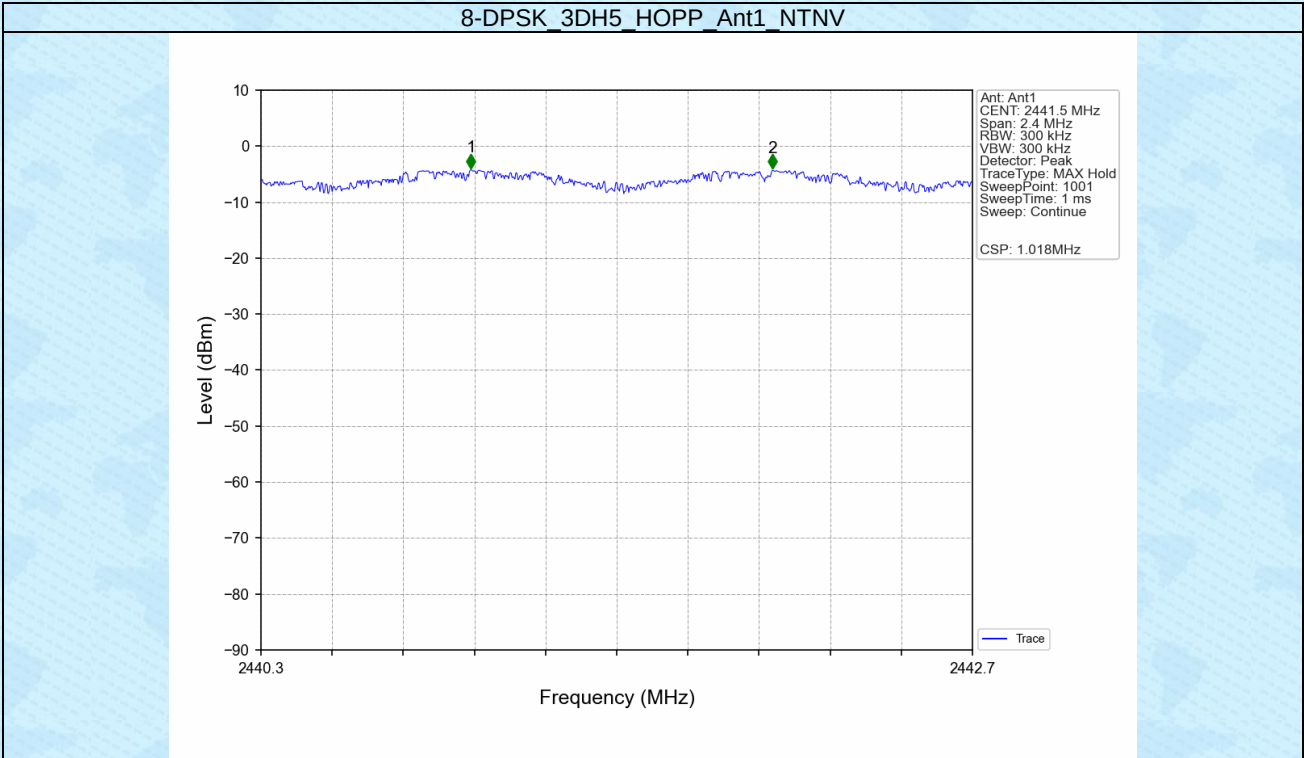
3. Carrier Frequency Separation

3.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.002	1.032	≥ 0.688	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	1.001	1.327	≥ 0.885	Pass
8-DPSK	SISO	HOPP	3DH5	1.018	1.292	≥ 0.861	Pass

3.2 Test Graph



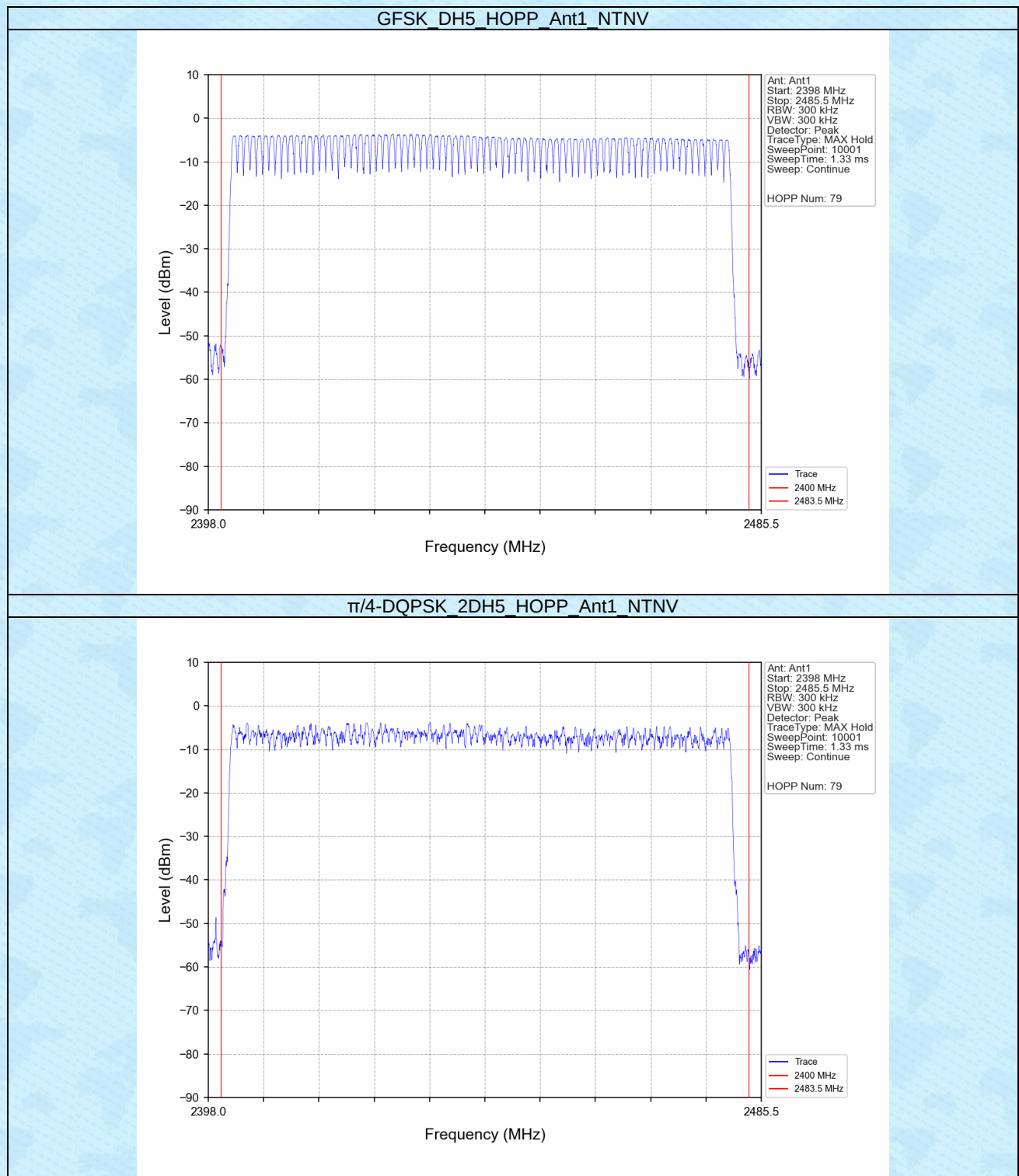


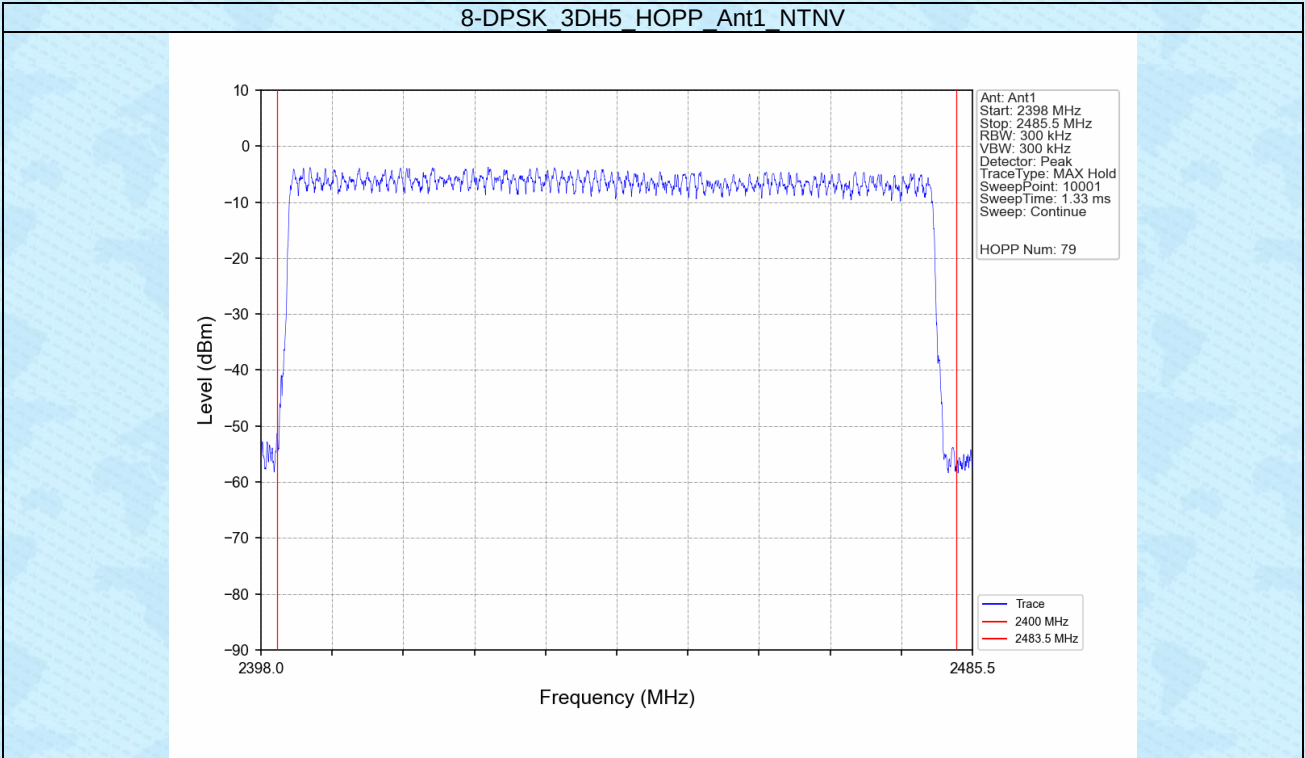
4. Number of Hopping Frequencies

4.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8-DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.2 Test Graph



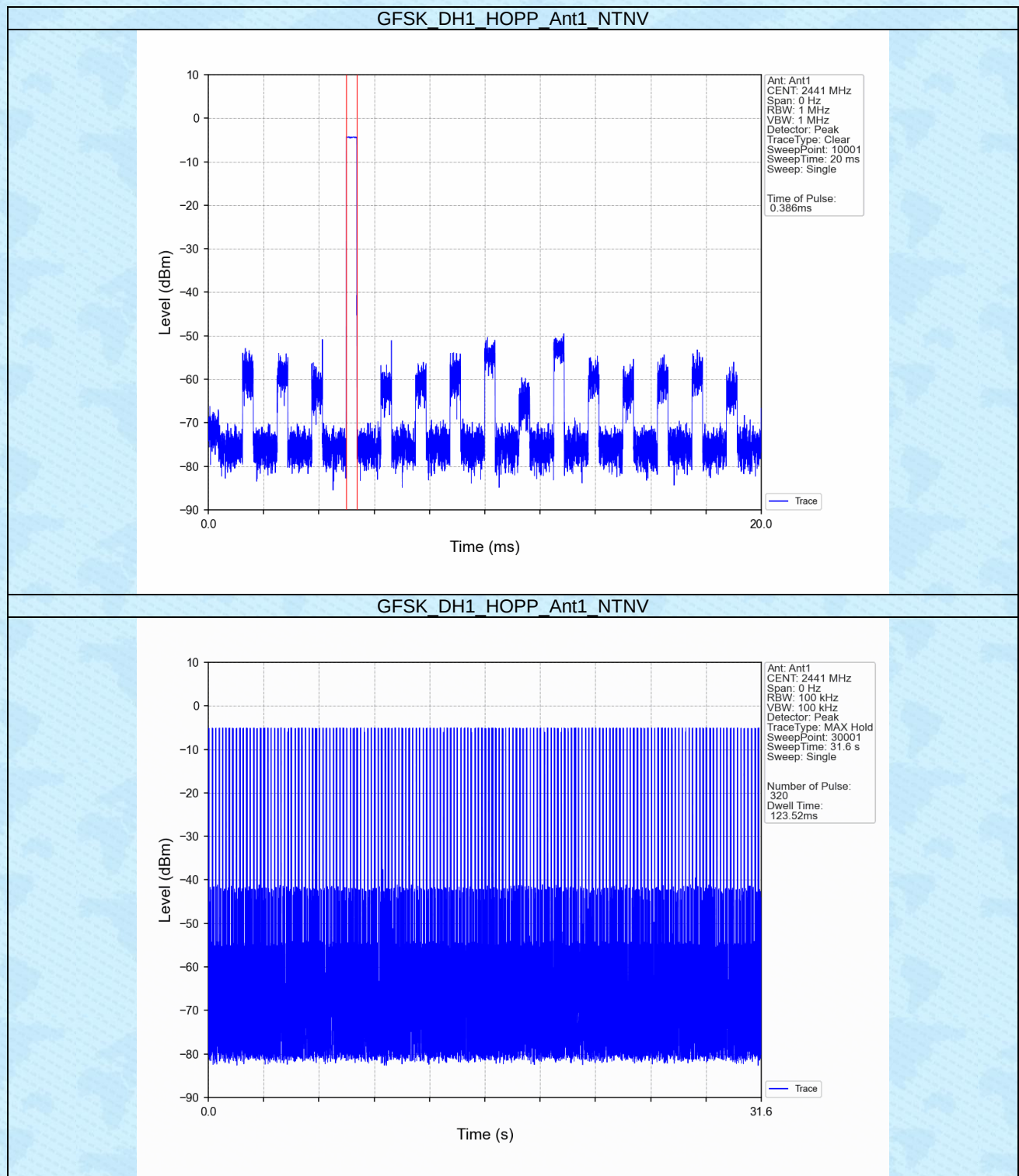


5. Time of Occupancy (Dwell Time)

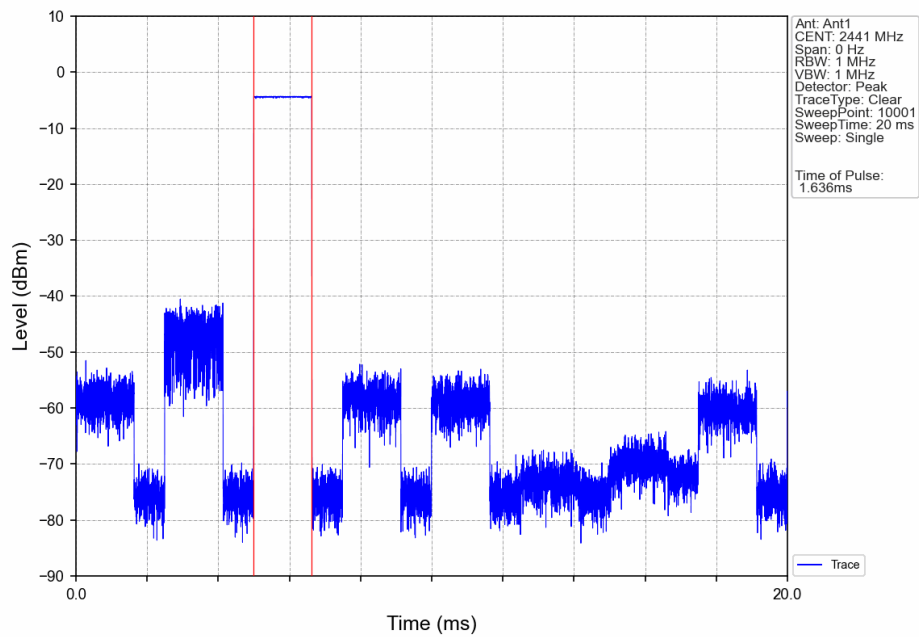
5.1 Test Result

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	0.386	31.600	320	123.520	<=400	Pass
			DH3	1.636	31.600	159	260.124	<=400	Pass
			DH5	2.884	31.600	109	314.356	<=400	Pass
$\pi/4$ -DQPSK	SISO	HOPP	2DH1	0.390	31.600	318	124.020	<=400	Pass
			2DH3	1.642	31.600	156	256.152	<=400	Pass
			2DH5	2.890	31.600	101	291.890	<=400	Pass
8-DPSK	SISO	HOPP	3DH1	0.398	31.600	320	127.360	<=400	Pass
			3DH3	1.642	31.600	159	261.078	<=400	Pass
			3DH5	2.894	31.600	104	300.976	<=400	Pass

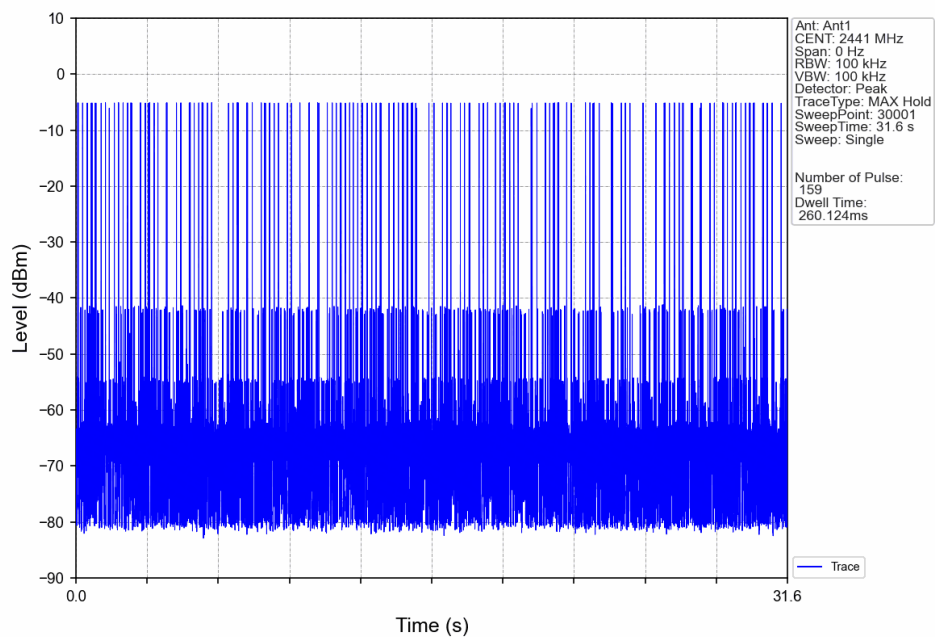
5.2 Test Graph



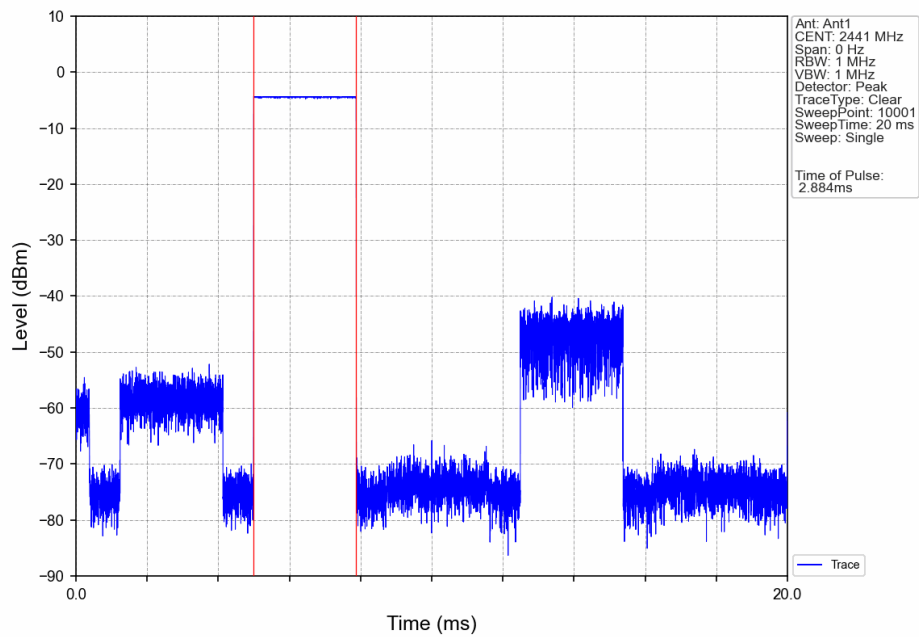
GFSK DH3_HOPP_Ant1_NTNV



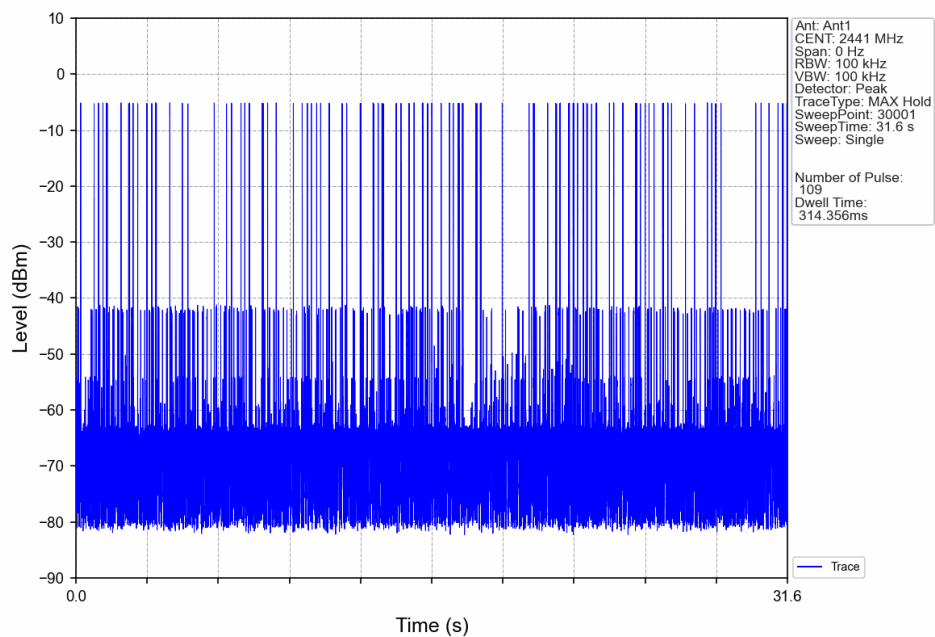
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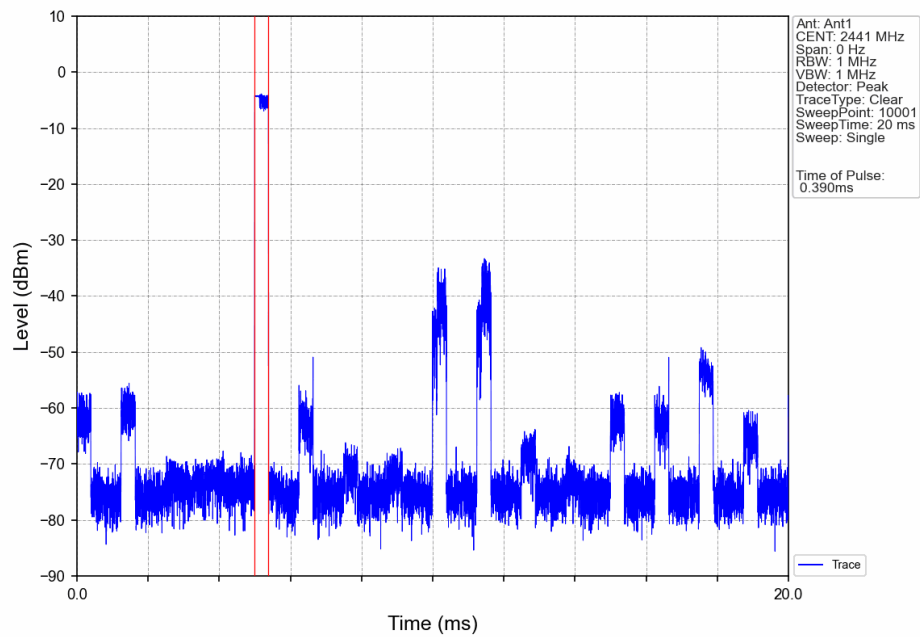
GFSK DH5_HOPP_Ant1_NTNV



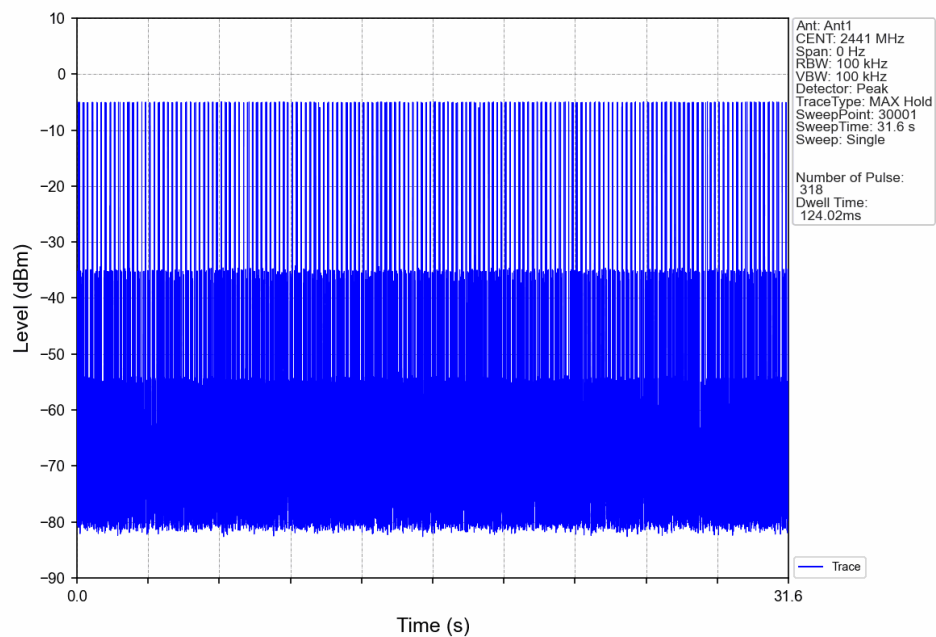
GFSK DH5_HOPP_Ant1_NTNV



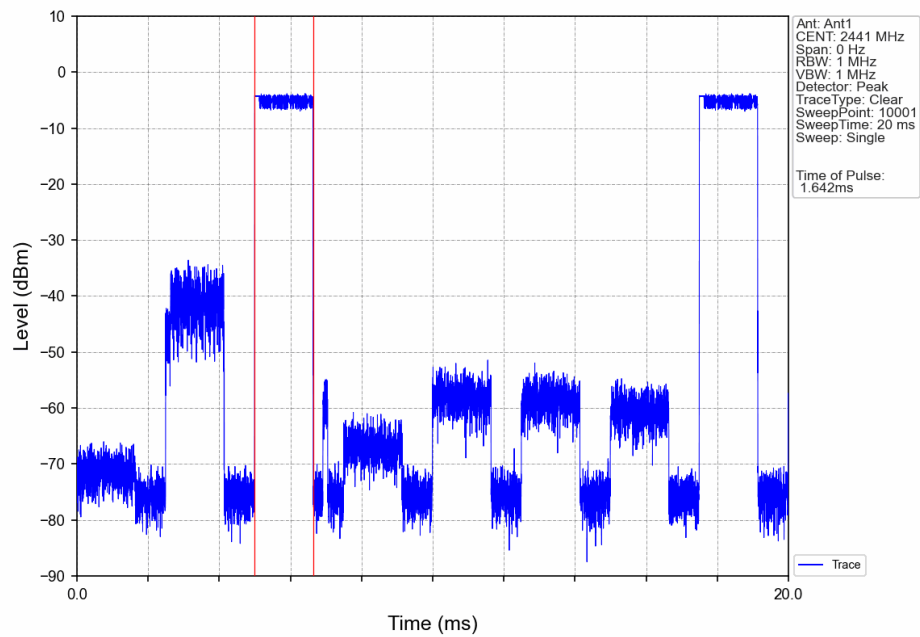
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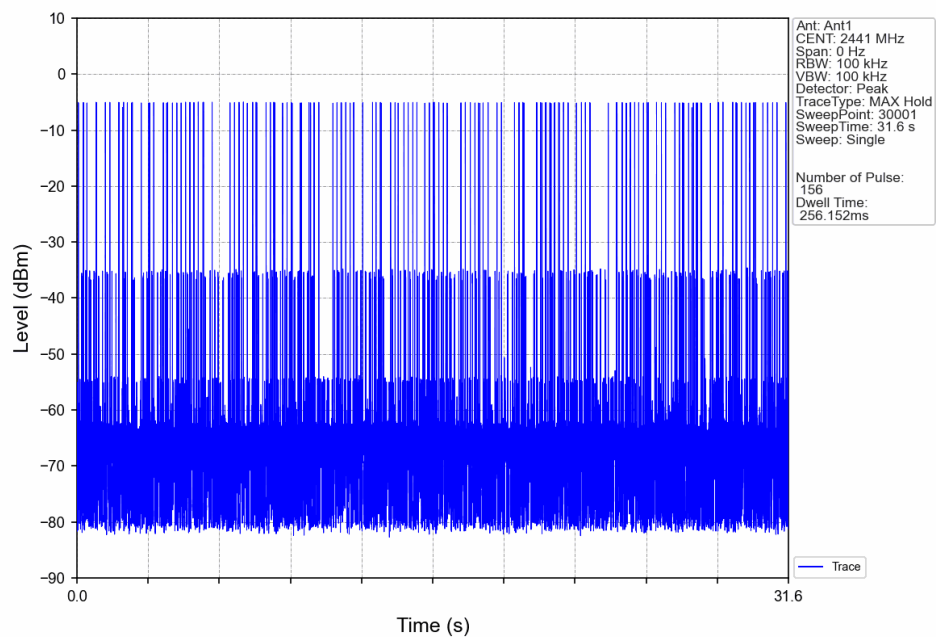
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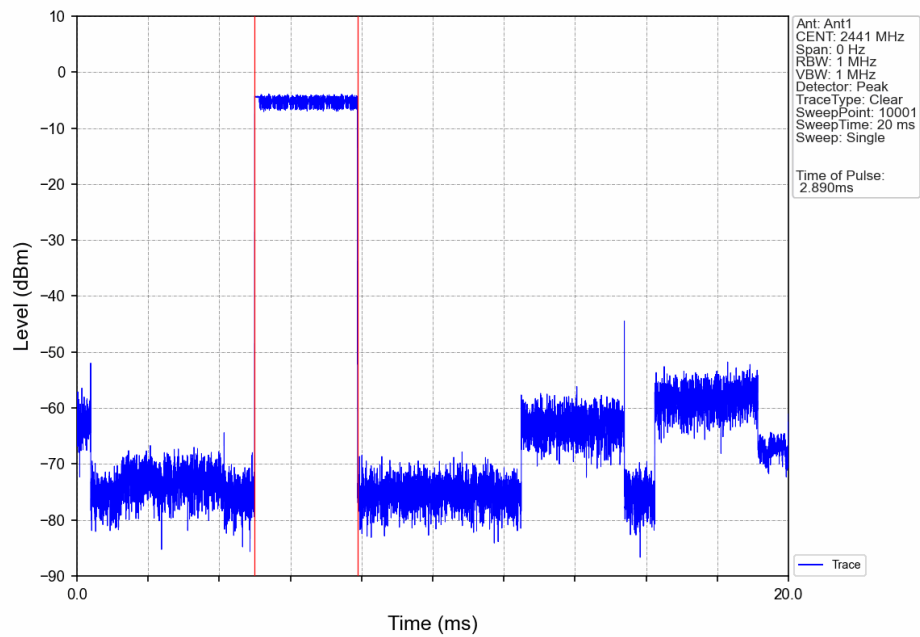
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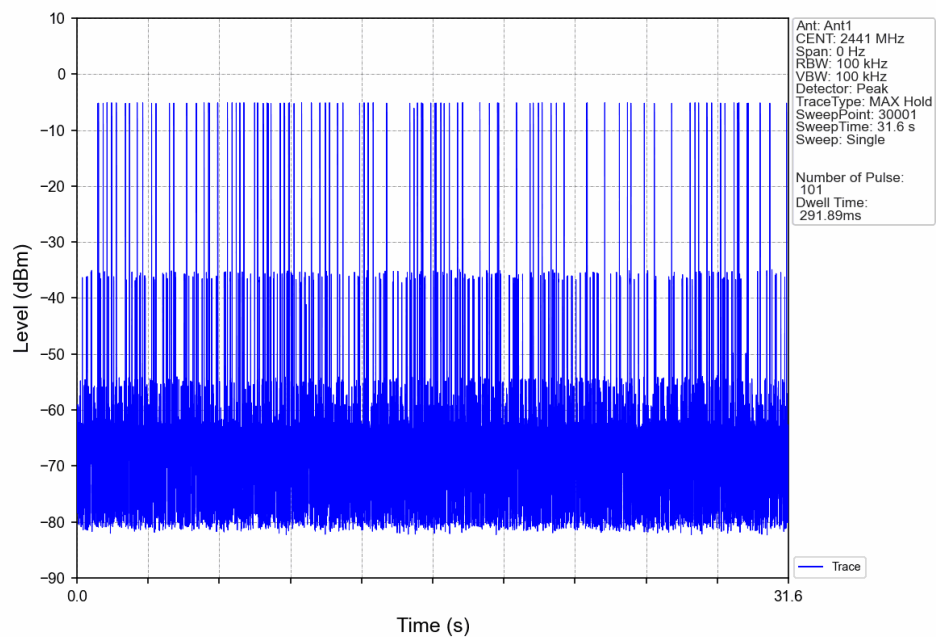
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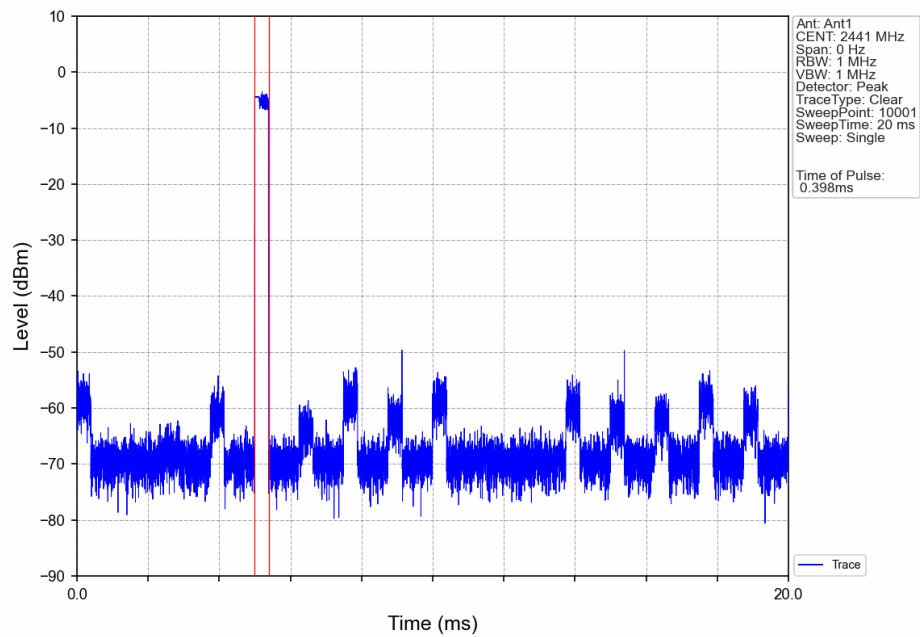
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



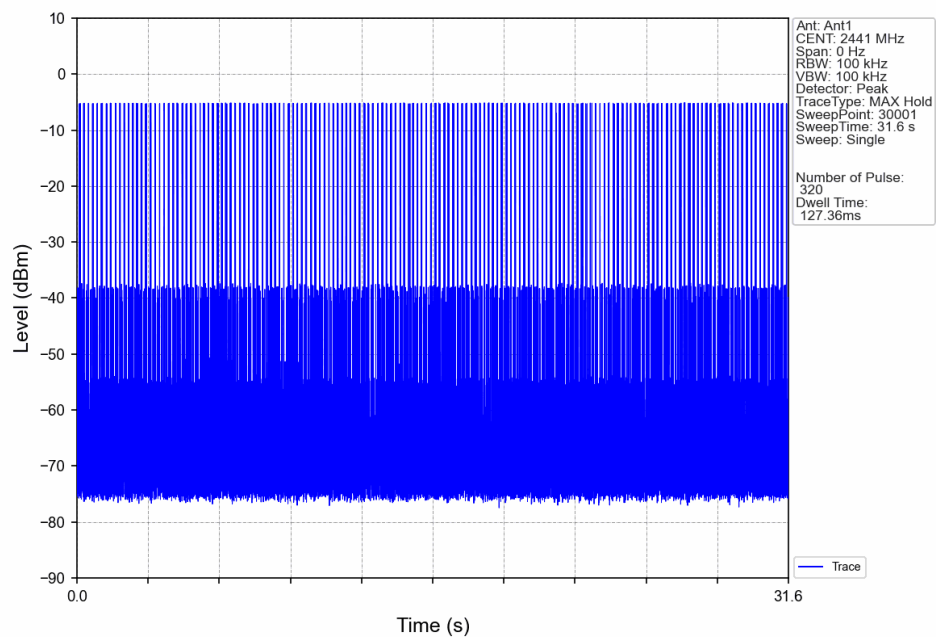
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



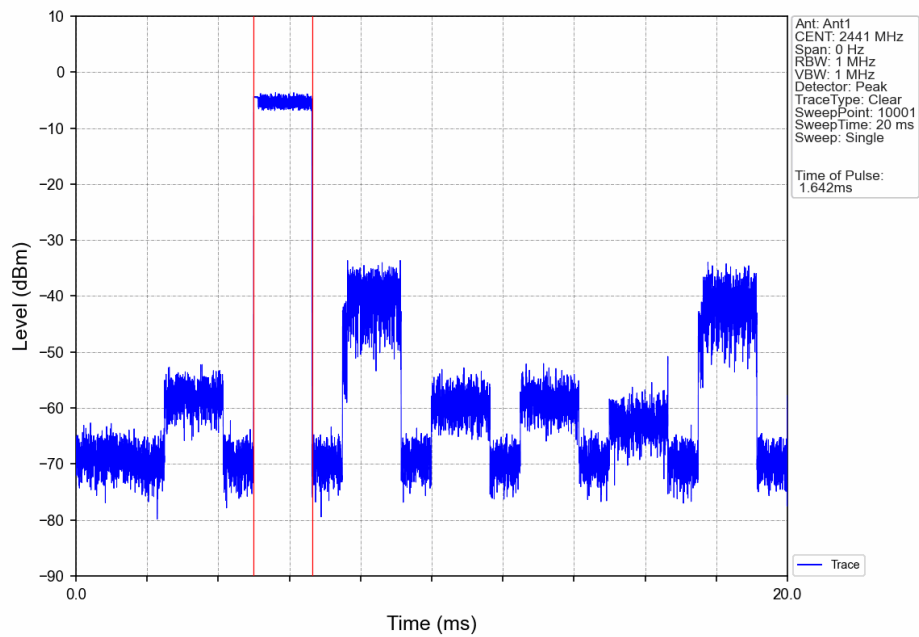
8-DPSK 3DH1 HOPP Ant1 NTN



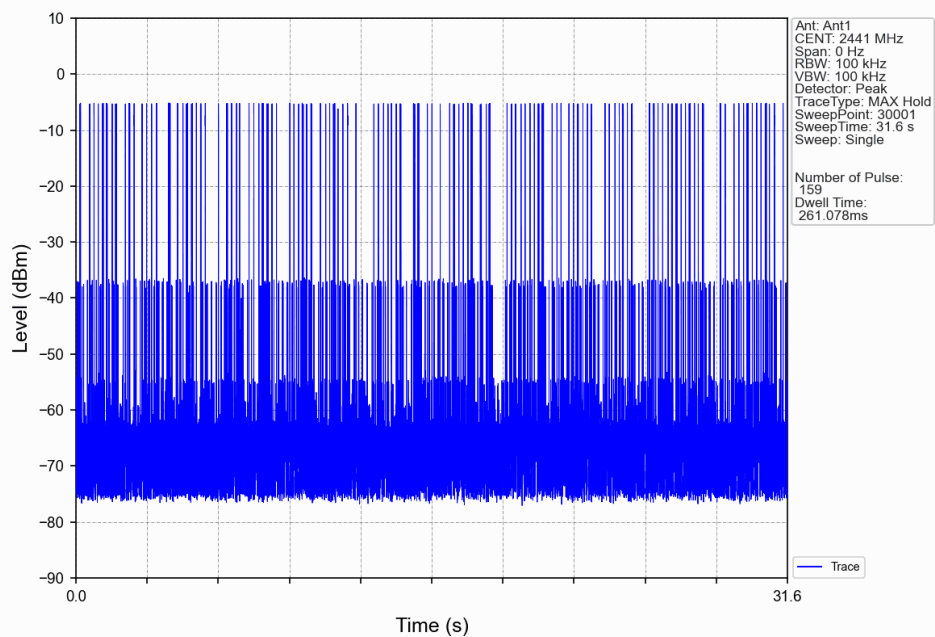
8-DPSK 3DH1 HOPP Ant1 NTN



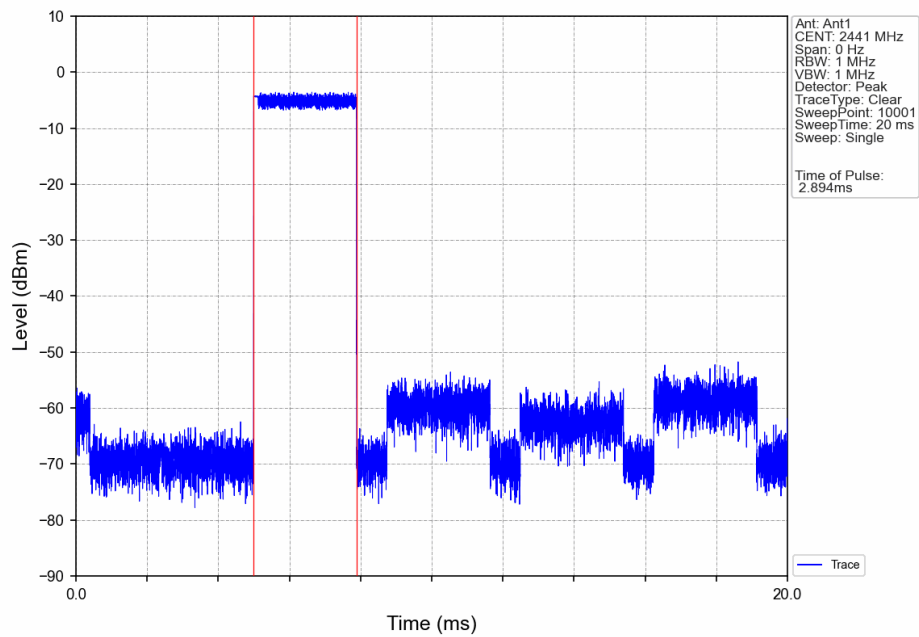
8-DPSK 3DH3 HOPP Ant1 NTN



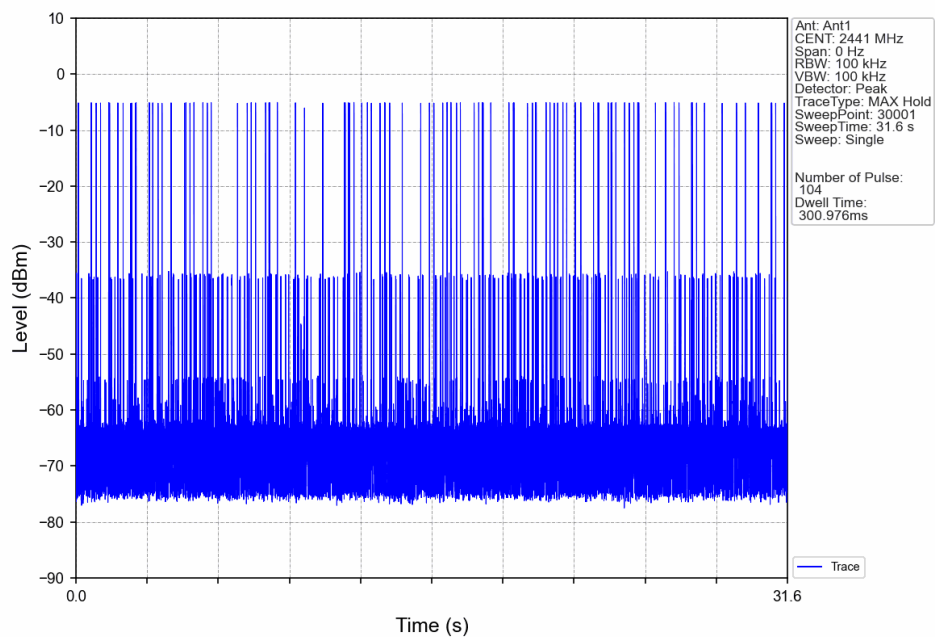
8-DPSK 3DH3 HOPP Ant1 NTN



8-DPSK 3DH5 HOPP Ant1 NTN



8-DPSK 3DH5 HOPP Ant1 NTN



6. Unwanted Emissions In Non-restricted Frequency Bands

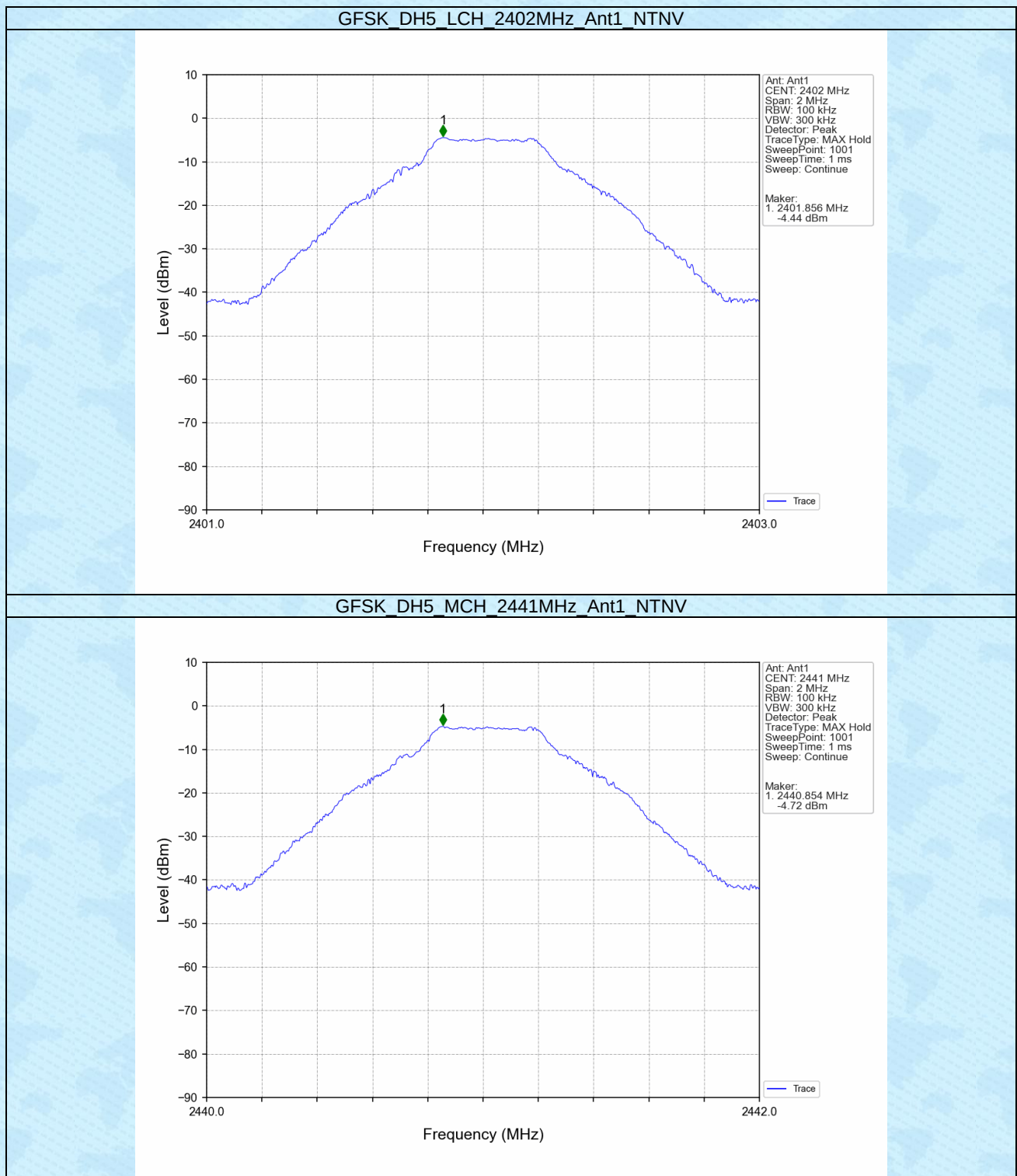
6.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	-4.44
		2441	DH5	1	-4.72
		2480	DH5	1	-5.56
		HOPP	DH5	1	-4.25
					-4.25
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	-4.42
		2441	2DH5	1	-4.74
		2480	2DH5	1	-5.61
		HOPP	2DH5	1	-4.17
					-4.17
8-DPSK	SISO	2402	3DH5	1	-4.36
		2441	3DH5	1	-4.69
		2480	3DH5	1	-5.57
		HOPP	3DH5	1	-4.25
					-4.25

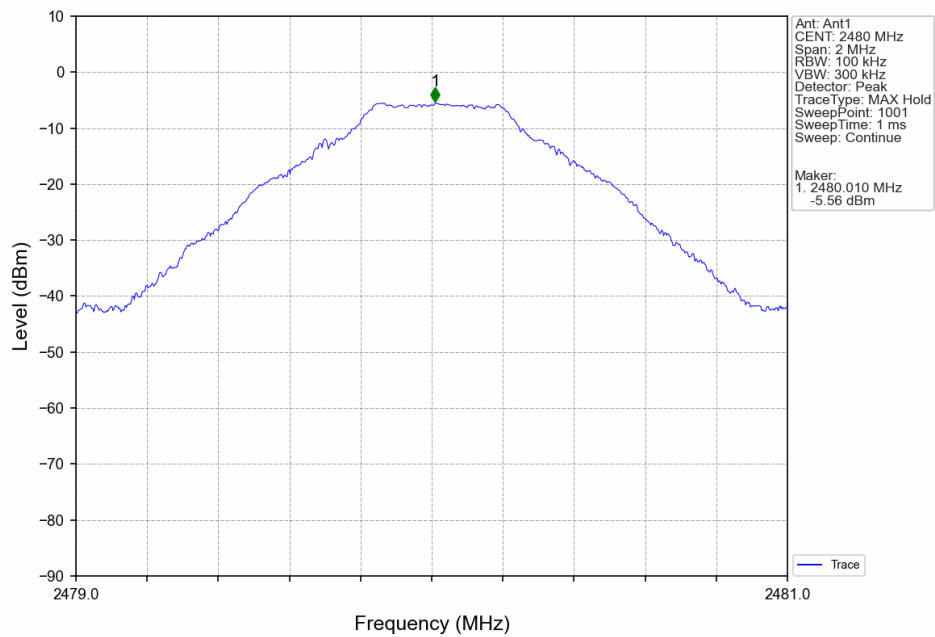
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	-4.44	-24.44	Pass
		2441	DH5	1	-4.72	-24.72	Pass
		2480	DH5	1	-5.56	-25.56	Pass
		HOPP	DH5	1	-4.25	-24.25	Pass
					-4.25	-24.25	Pass
$\pi/4$ -DQPSK	SISO	2402	2DH5	1	-4.42	-24.42	Pass
		2441	2DH5	1	-4.74	-24.74	Pass
		2480	2DH5	1	-5.61	-25.61	Pass
		HOPP	2DH5	1	-4.17	-24.17	Pass
					-4.17	-24.17	Pass
8-DPSK	SISO	2402	3DH5	1	-4.36	-24.36	Pass
		2441	3DH5	1	-4.69	-24.69	Pass
		2480	3DH5	1	-5.57	-25.57	Pass
		HOPP	3DH5	1	-4.25	-24.25	Pass
					-4.25	-24.25	Pass

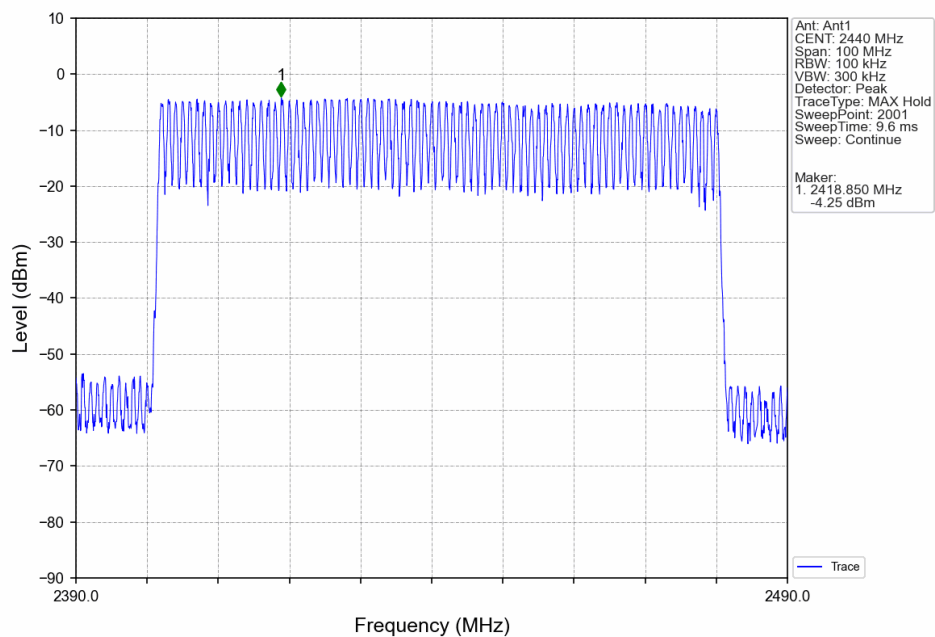
6.2 Test Graph



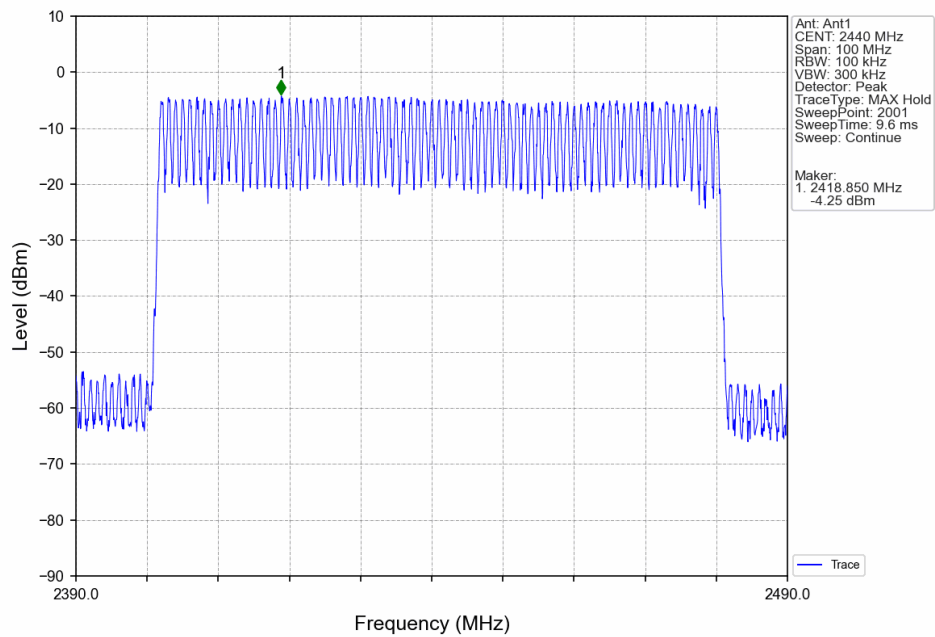
GFSK DH5_HCH_2480MHz_Ant1_NTNV



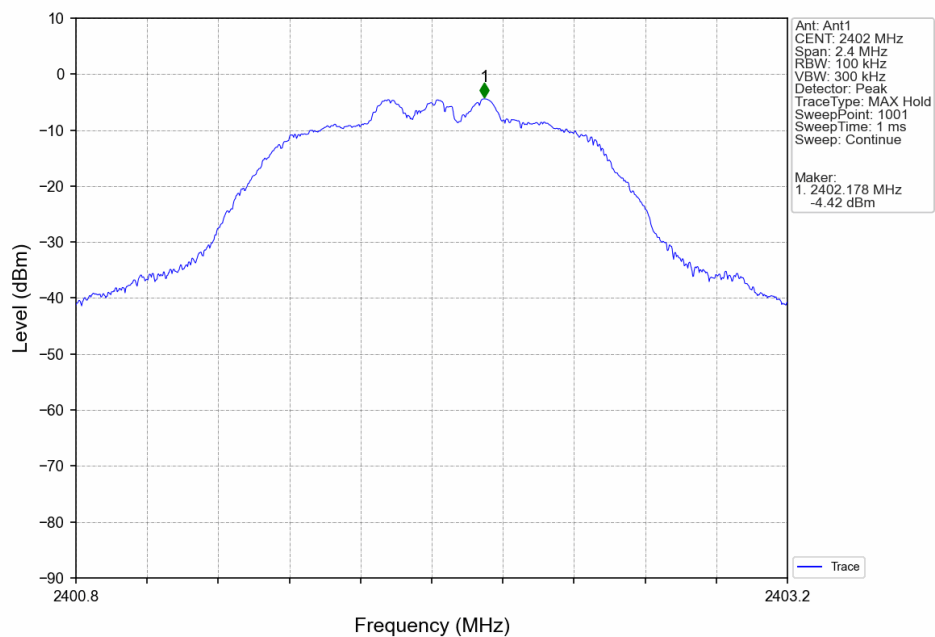
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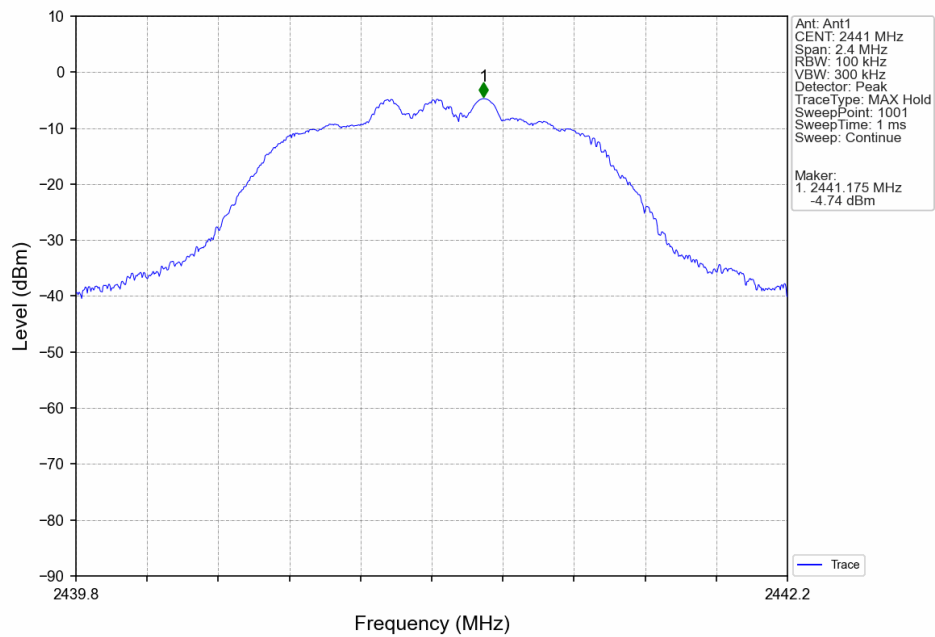
GFSK DH5_HOPP_Ant1_NTNV



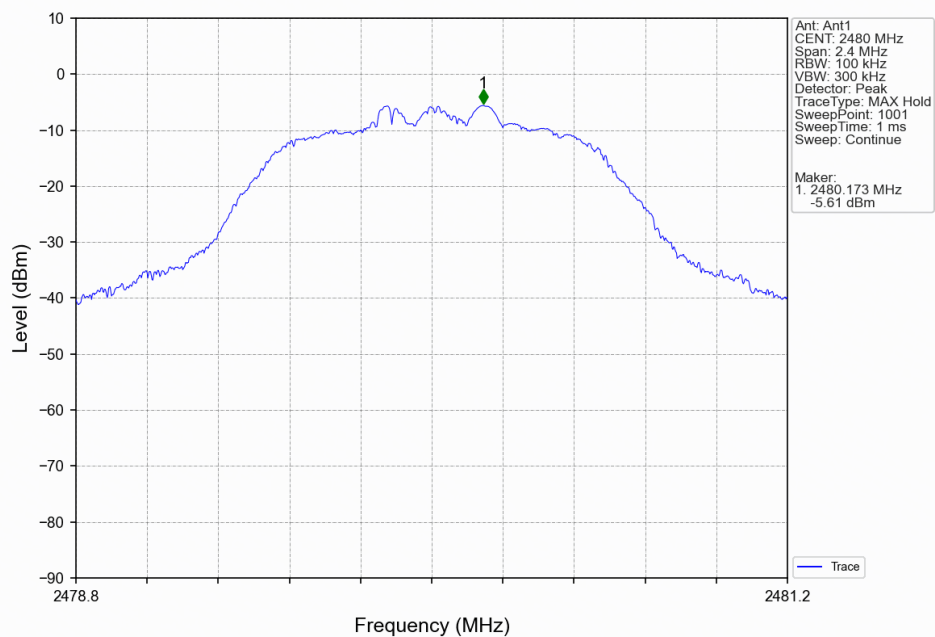
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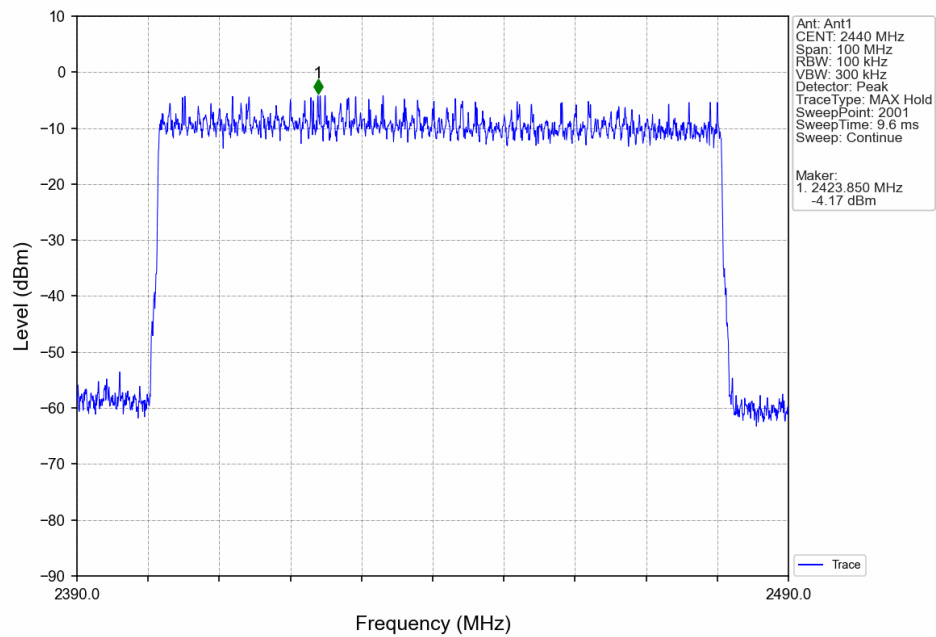
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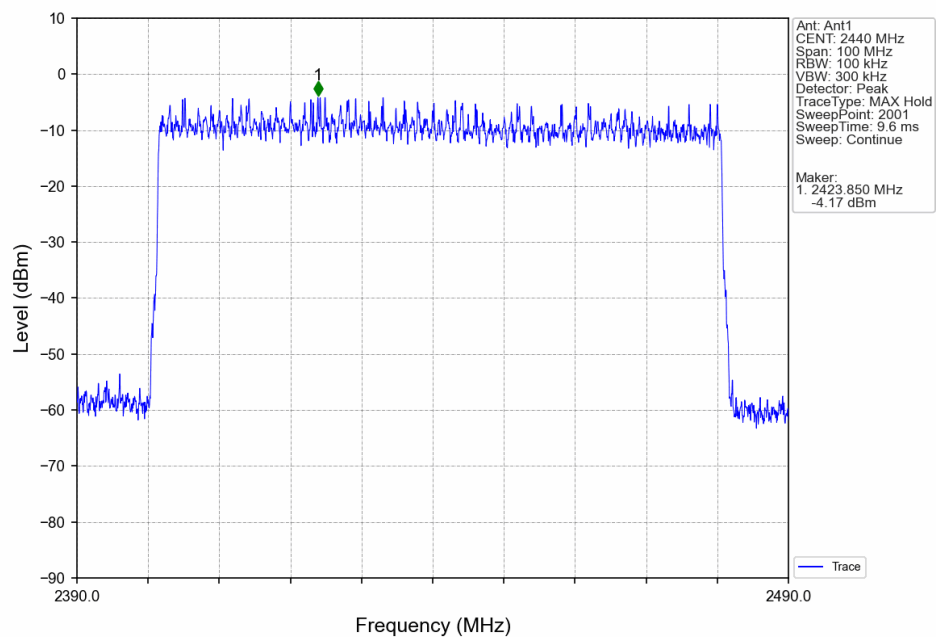
$\pi/4$ -DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



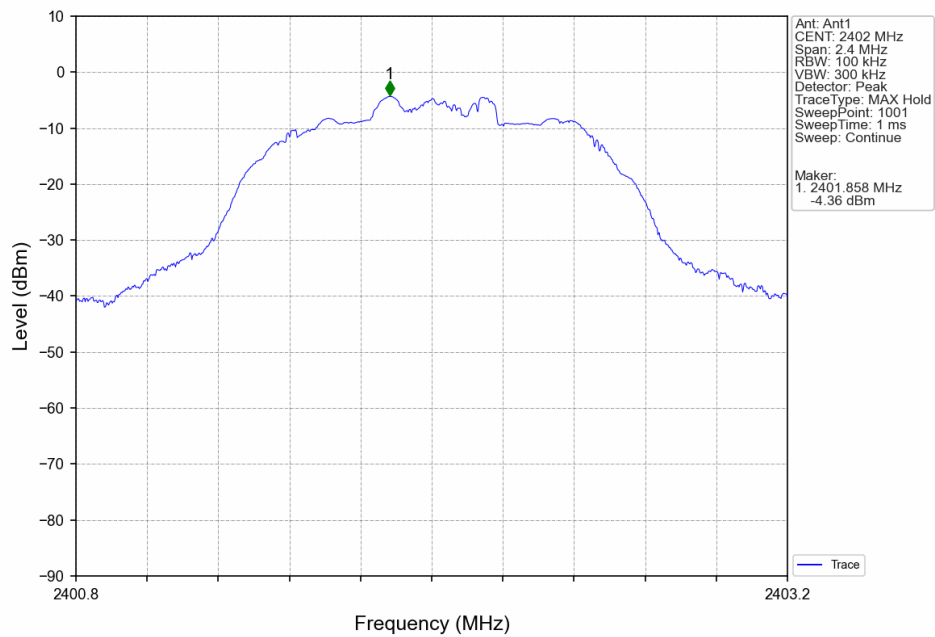
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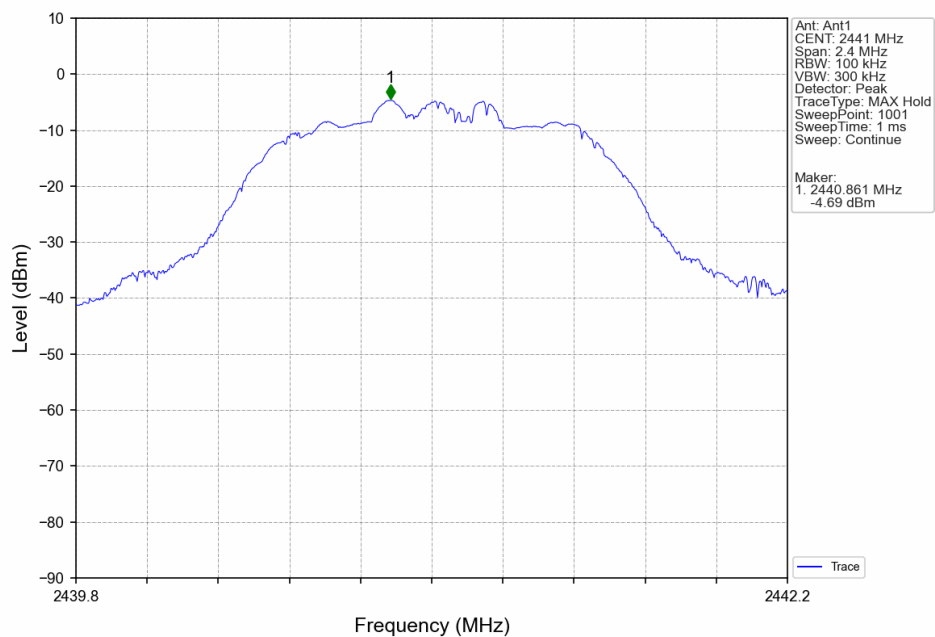
$\pi/4$ -DQPSK_2DH5_HOPP_Ant1_NTNV



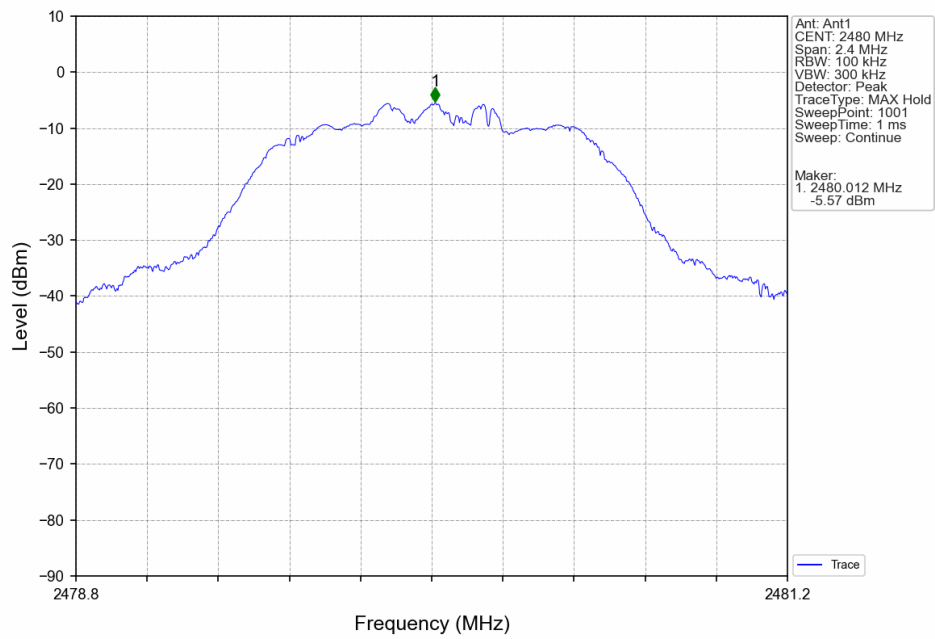
8-DPSK 3DH5 LCH 2402MHz Ant1 NTN



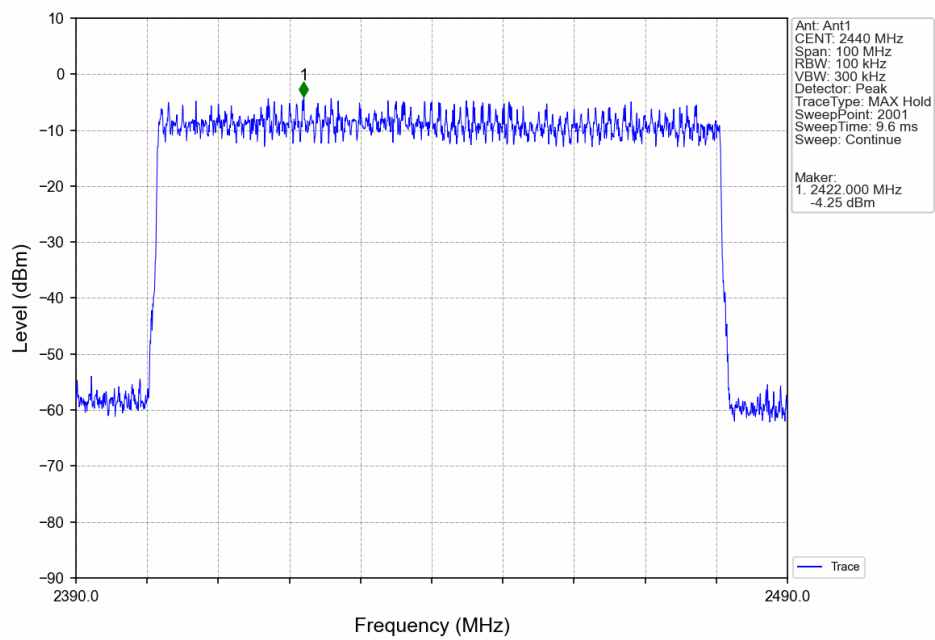
8-DPSK 3DH5 MCH 2441MHz Ant1 NTN

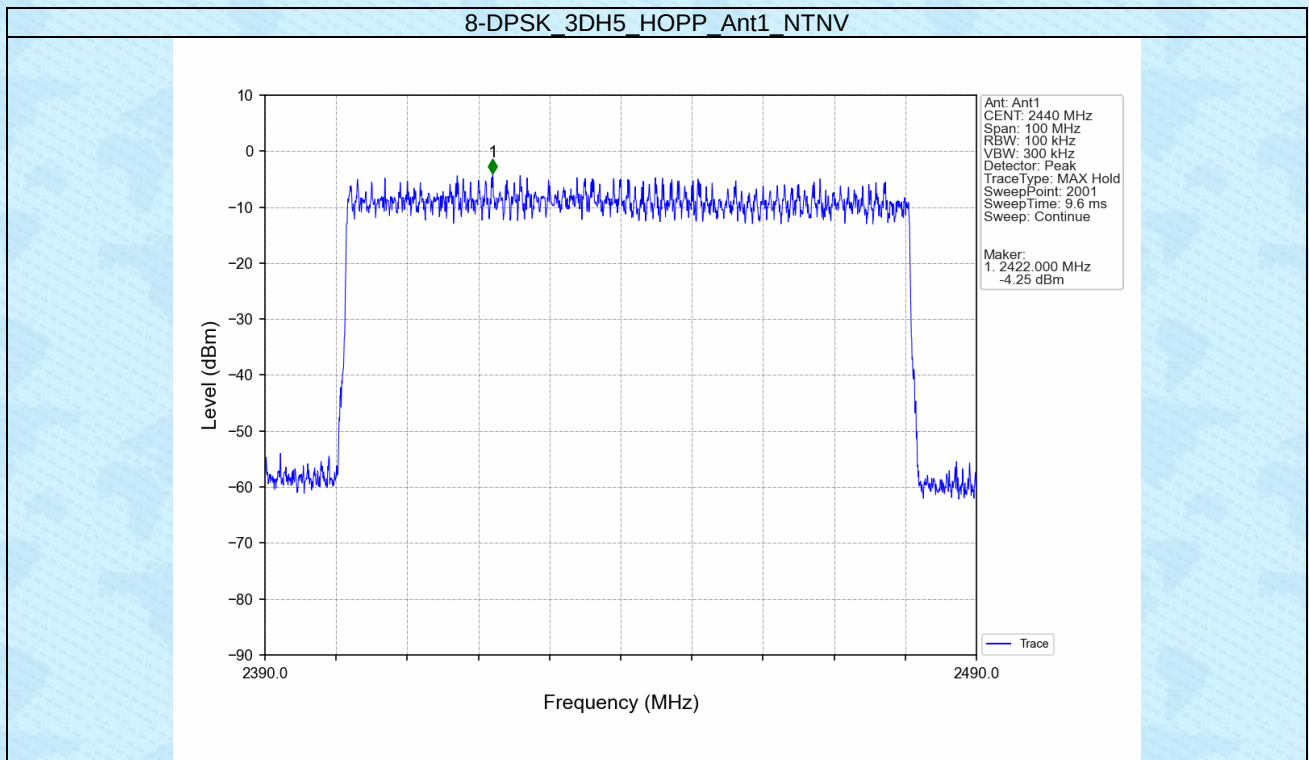


8-DPSK 3DH5_HCH 2480MHz_Ant1_NTNV

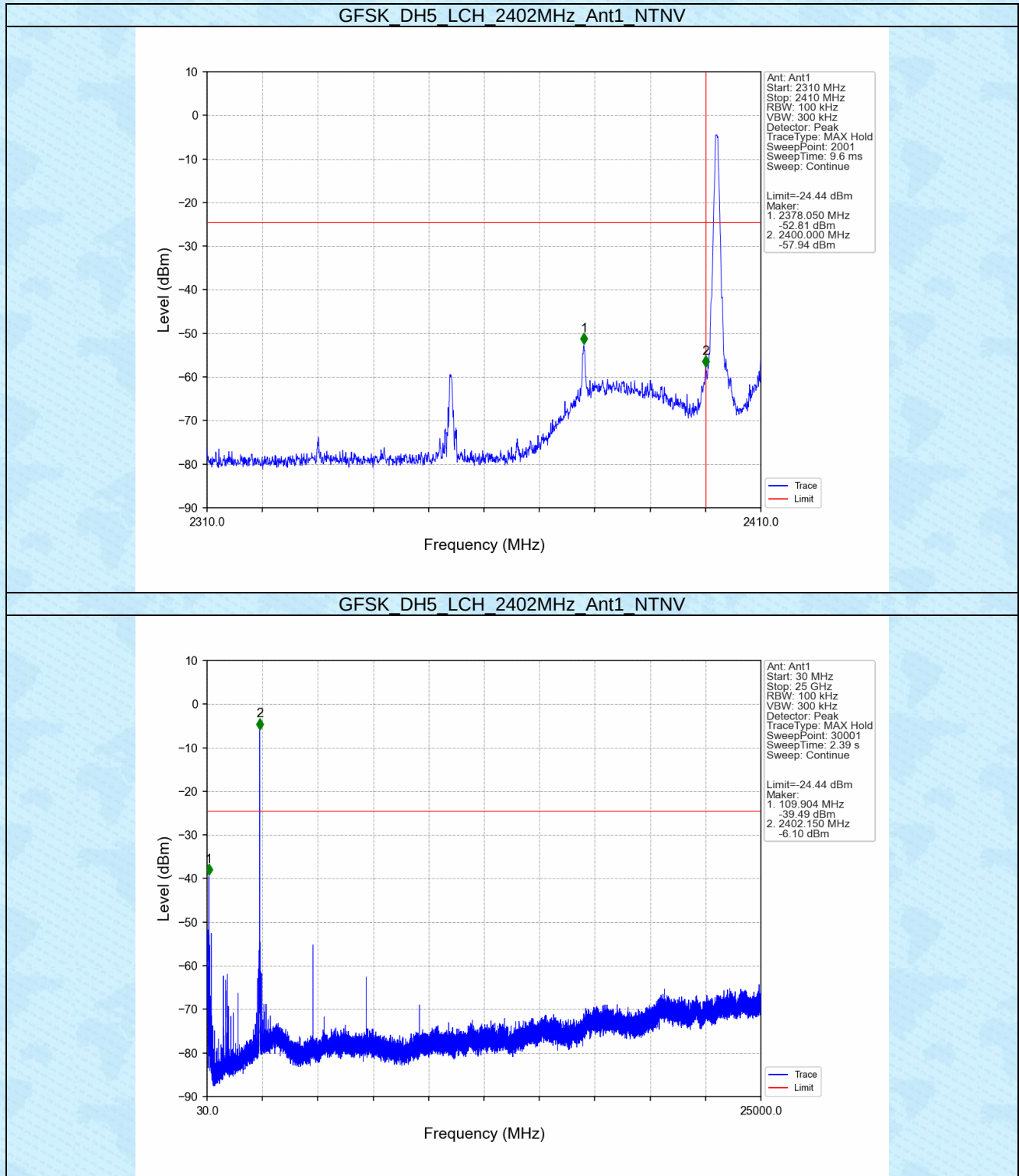


8-DPSK 3DH5_HOPP_Ant1_NTNV

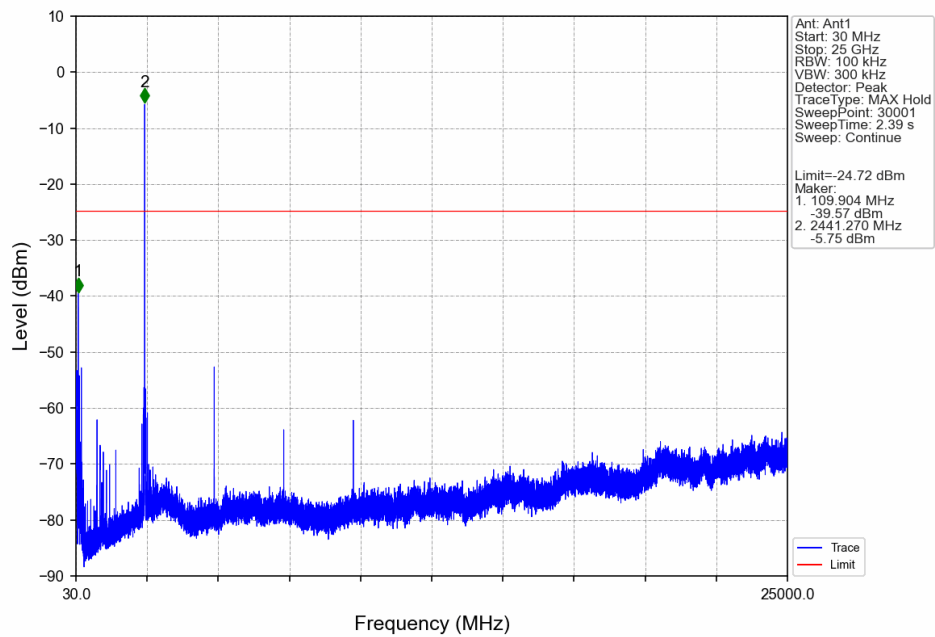




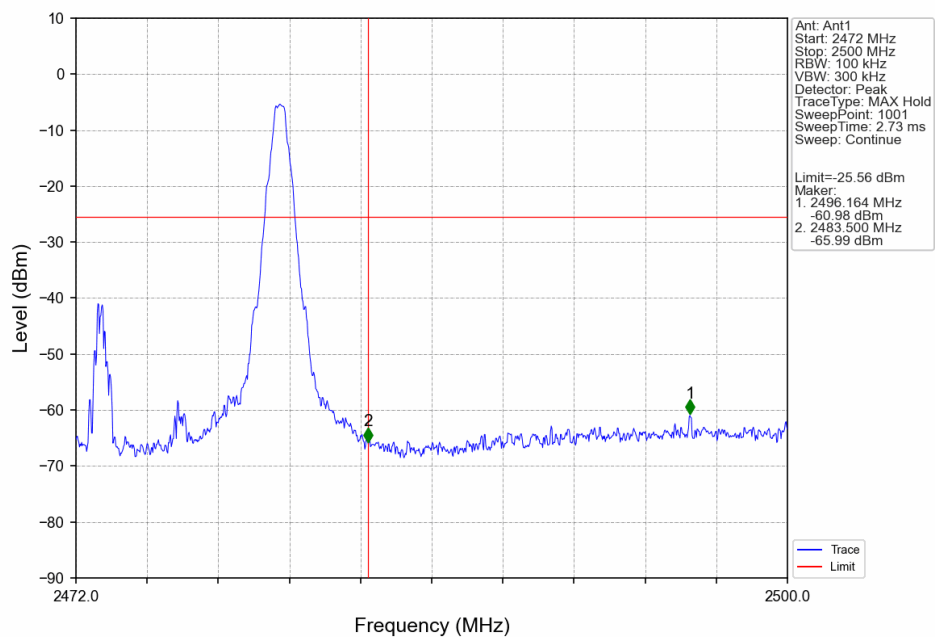
6.2.2 CSE



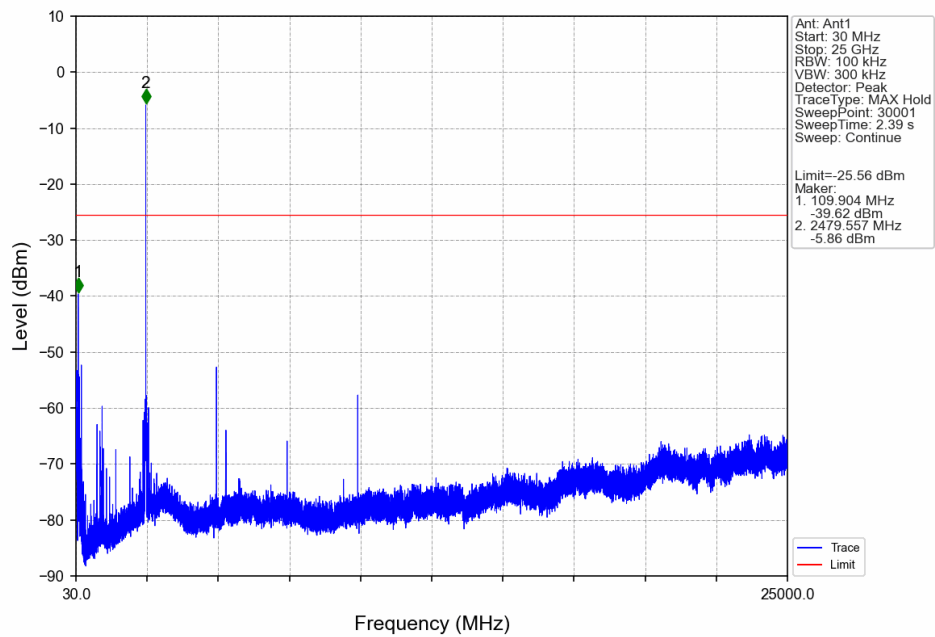
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



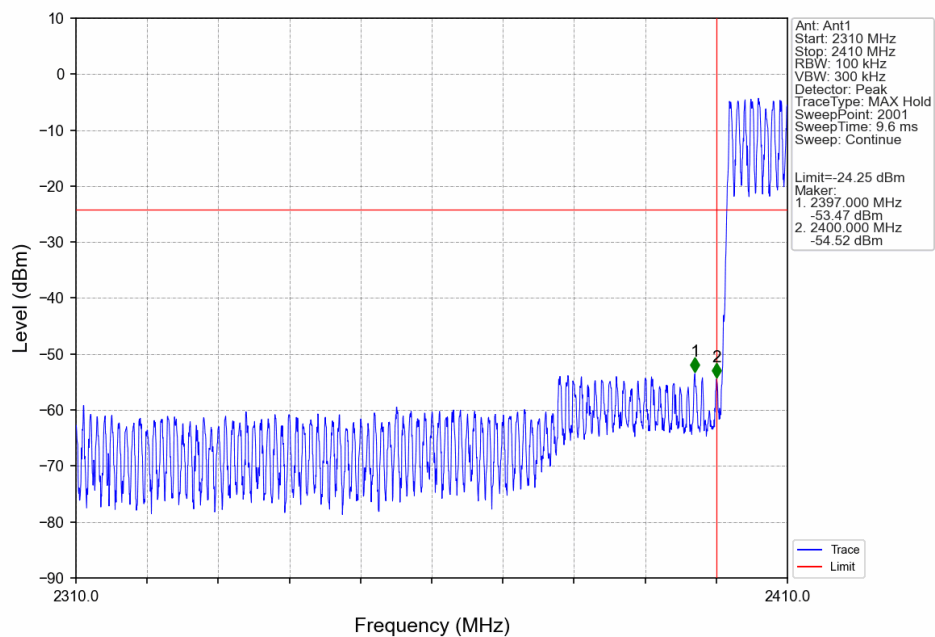
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



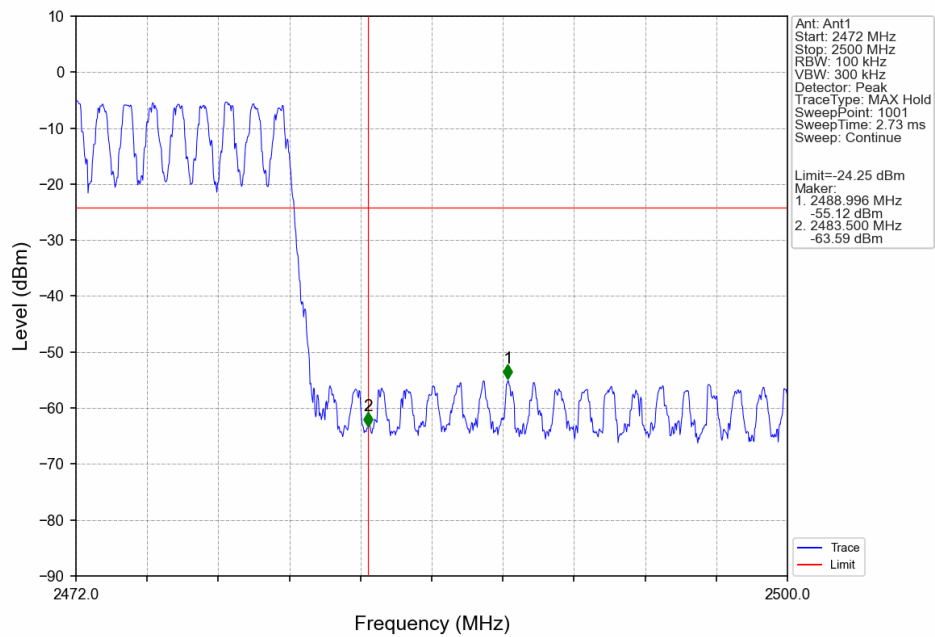
GFSK DH5_HCH_2480MHz_Ant1_NTNV



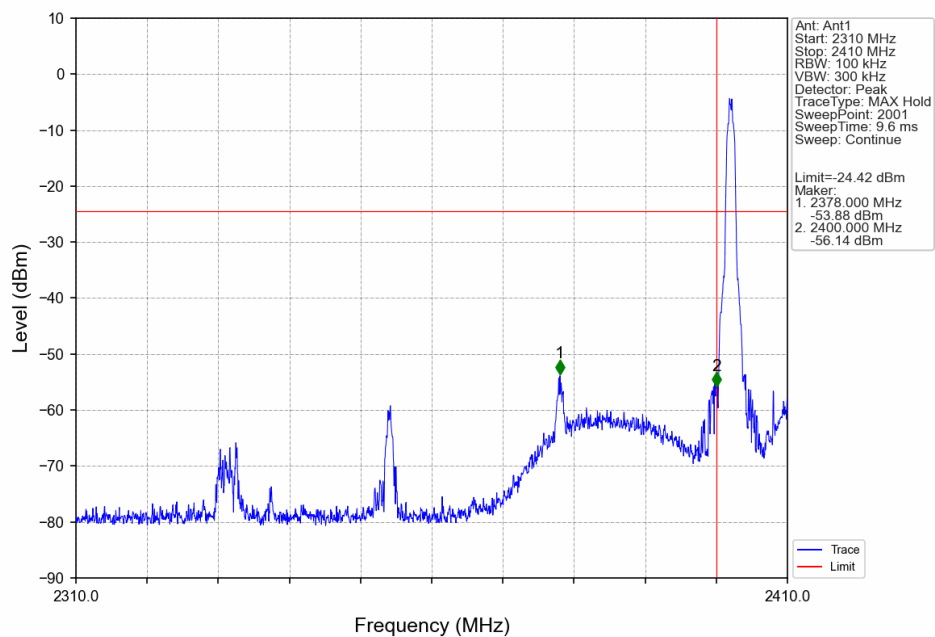
GFSK DH5_HOPP_Ant1_NTNV



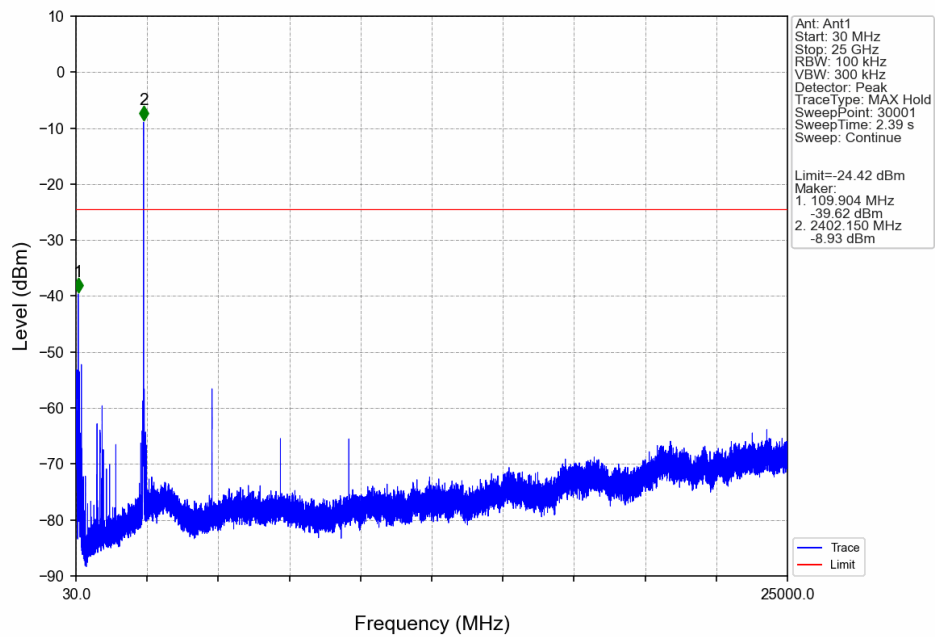
GFSK DH5_HOPP_Ant1_NTNV



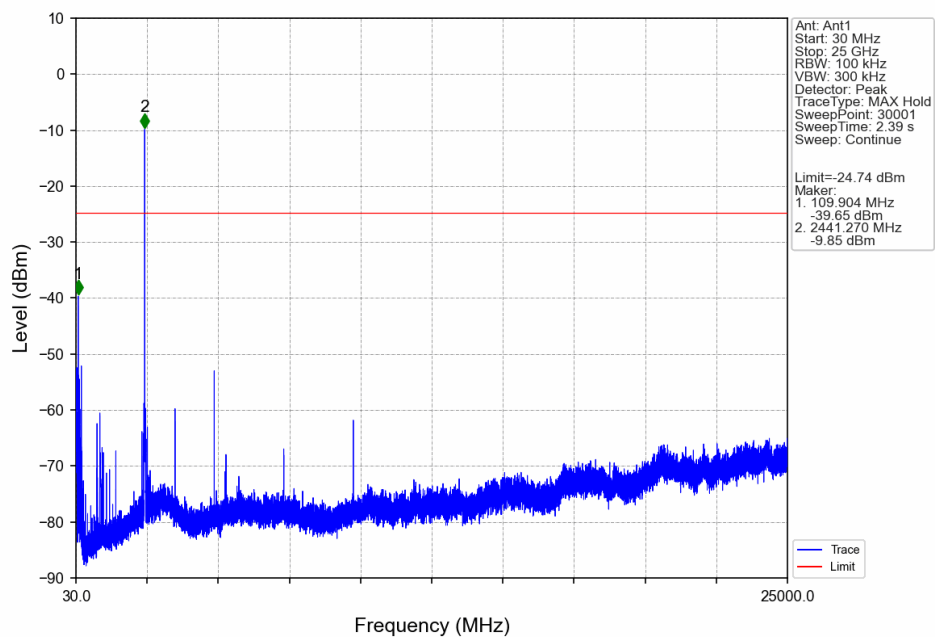
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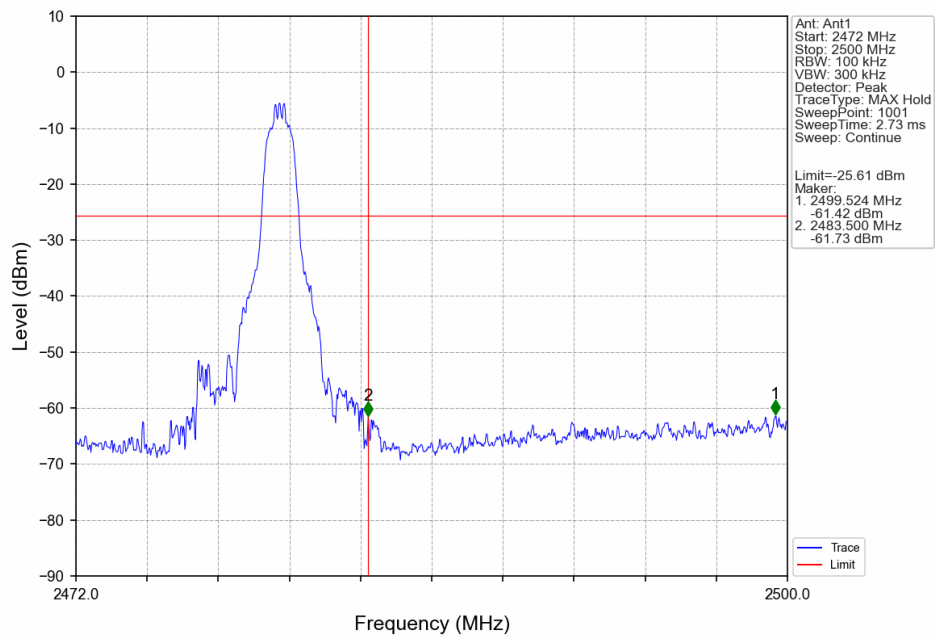
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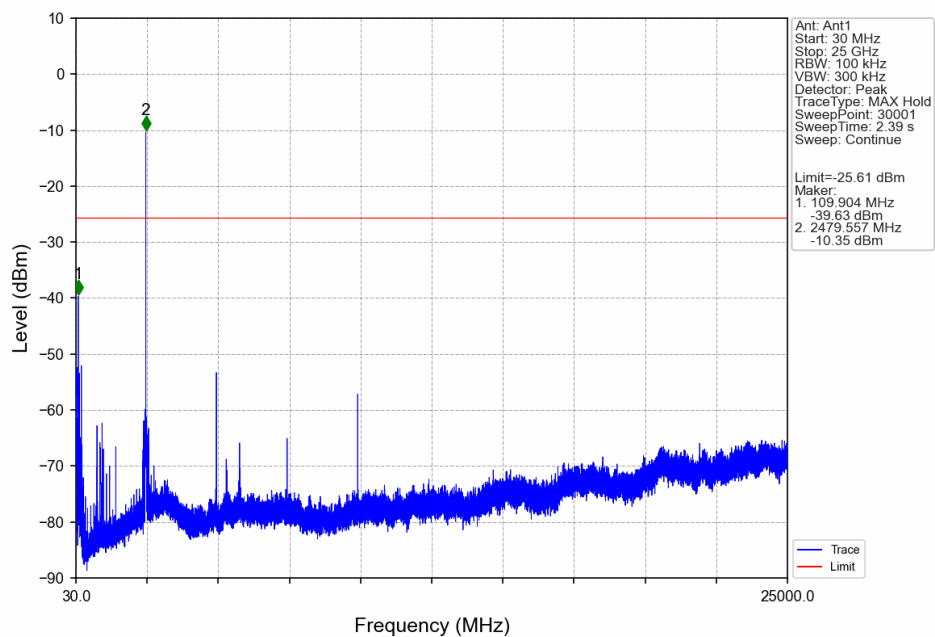
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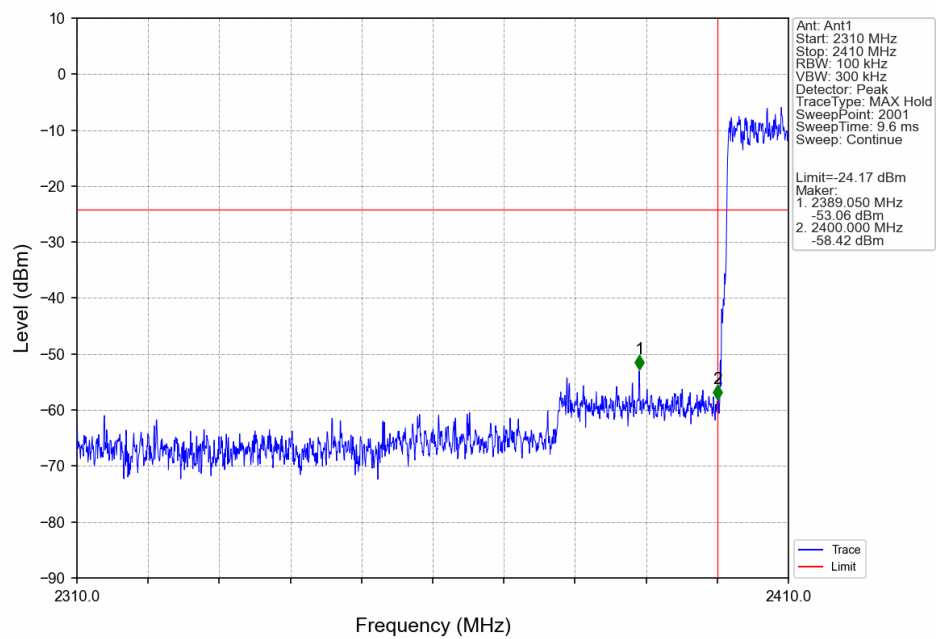
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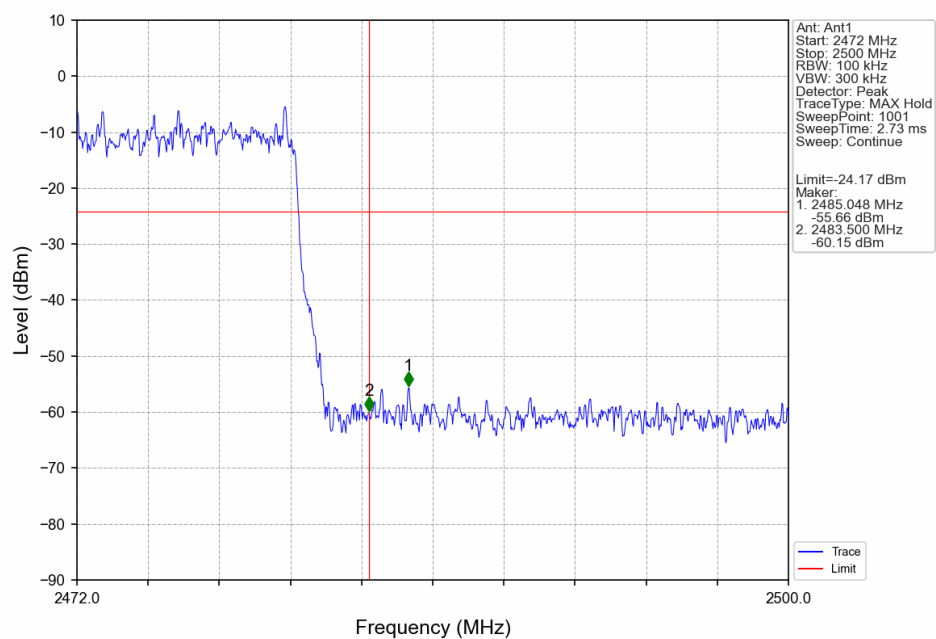
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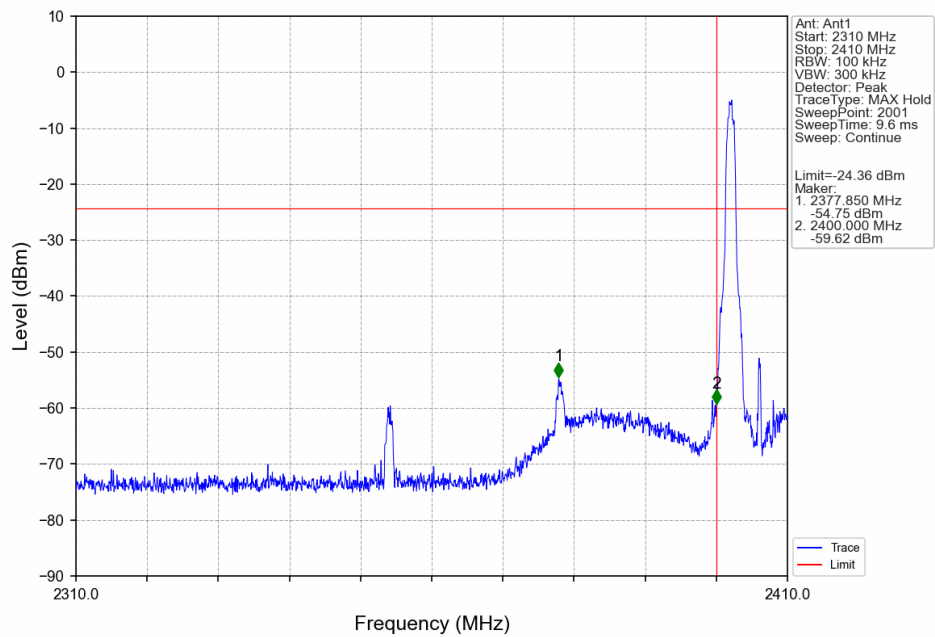
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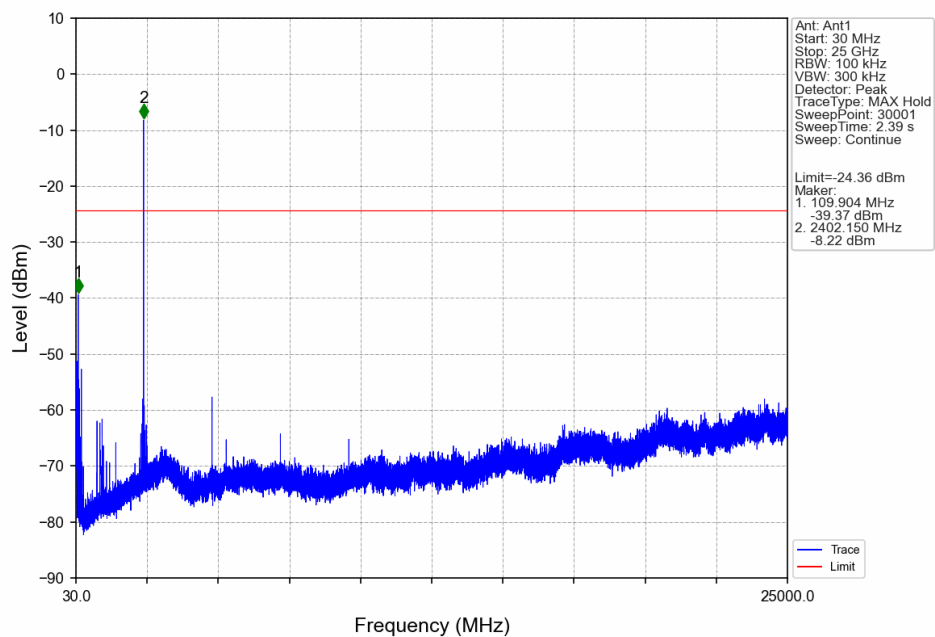
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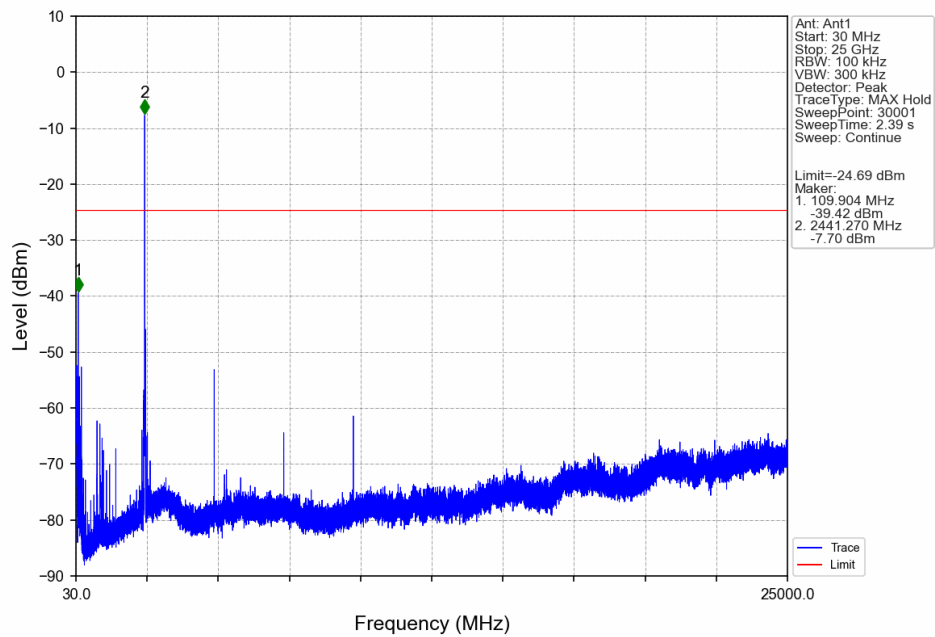
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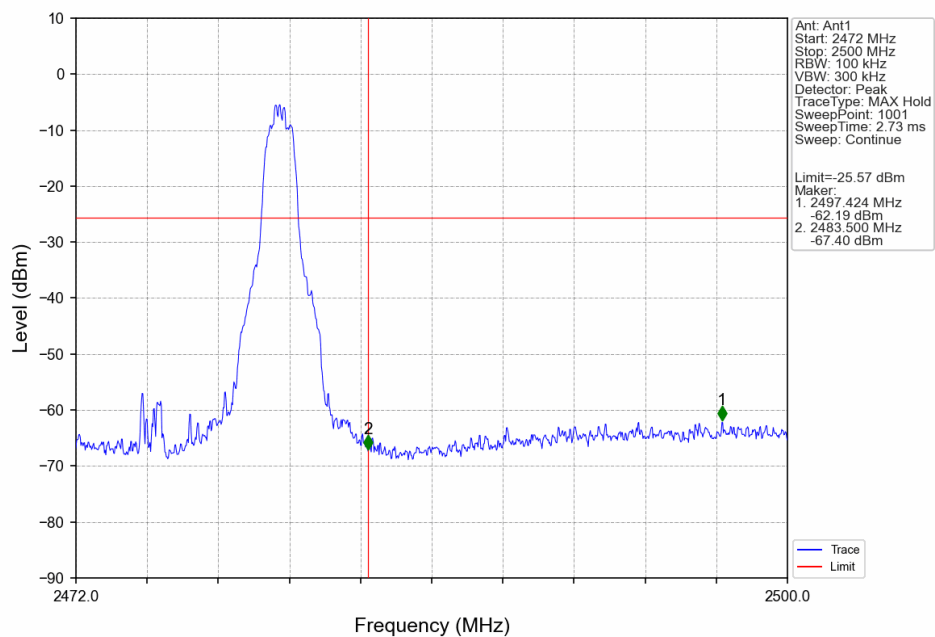
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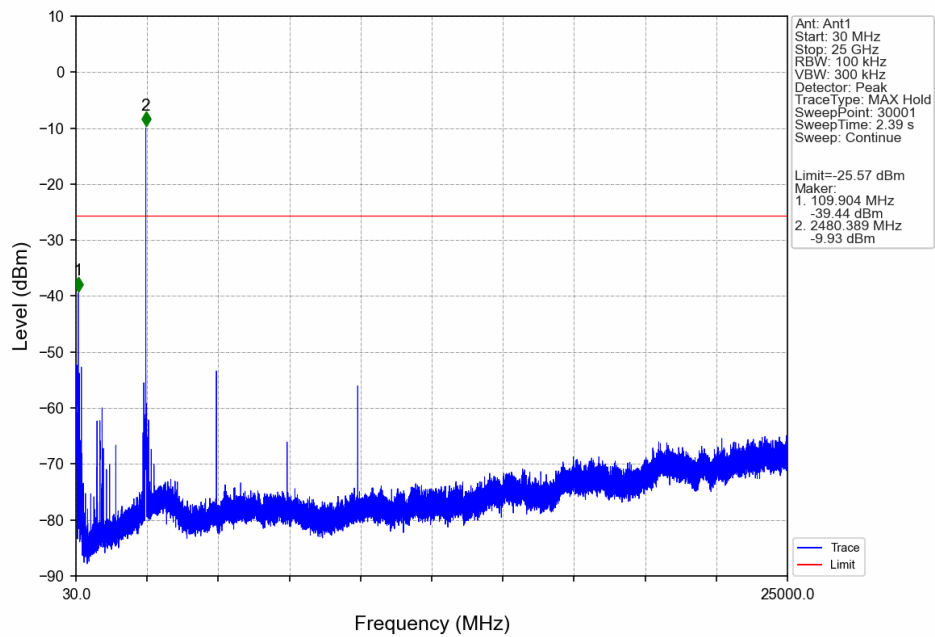
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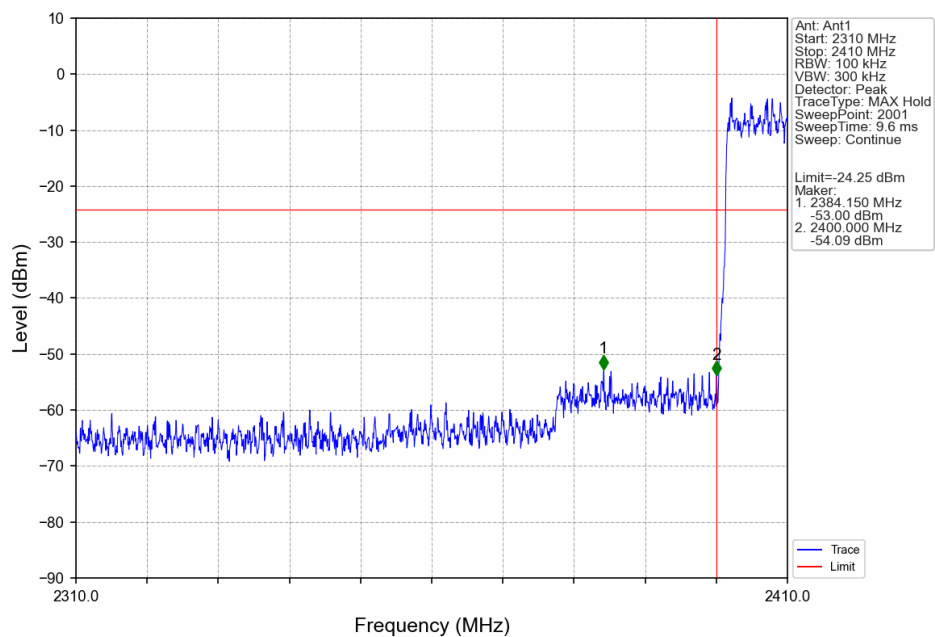
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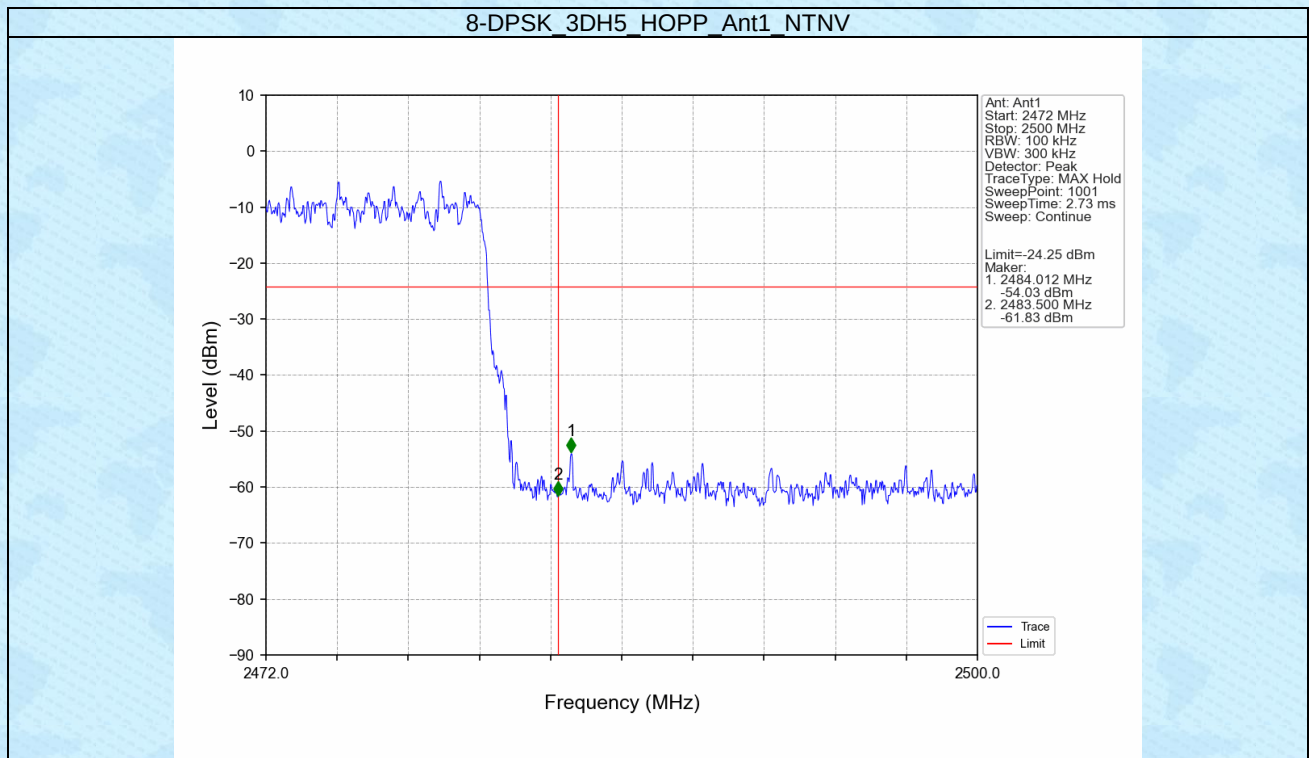


8-DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8-DPSK_3DH5_HOPP_Ant1_NTNV





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