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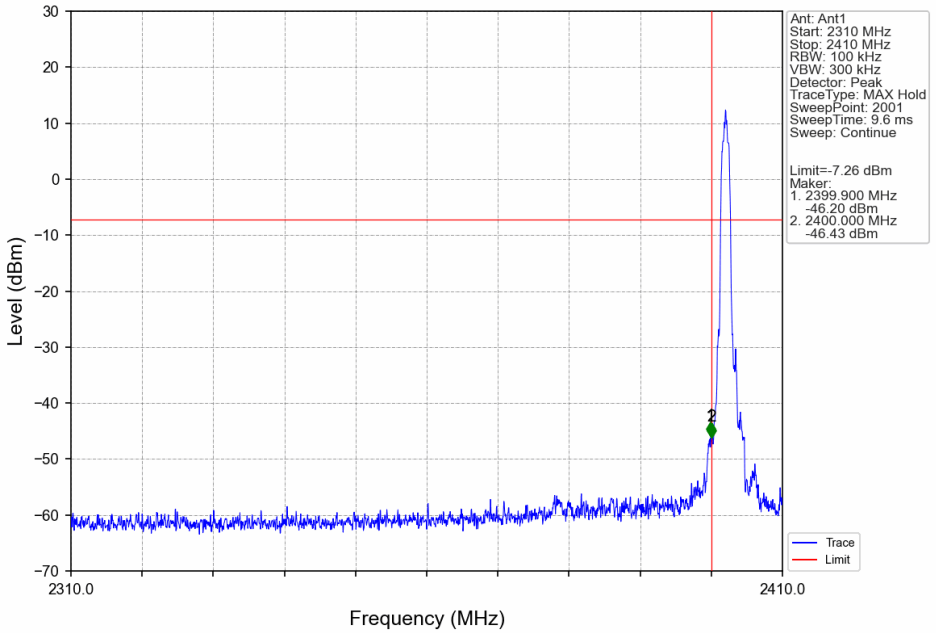

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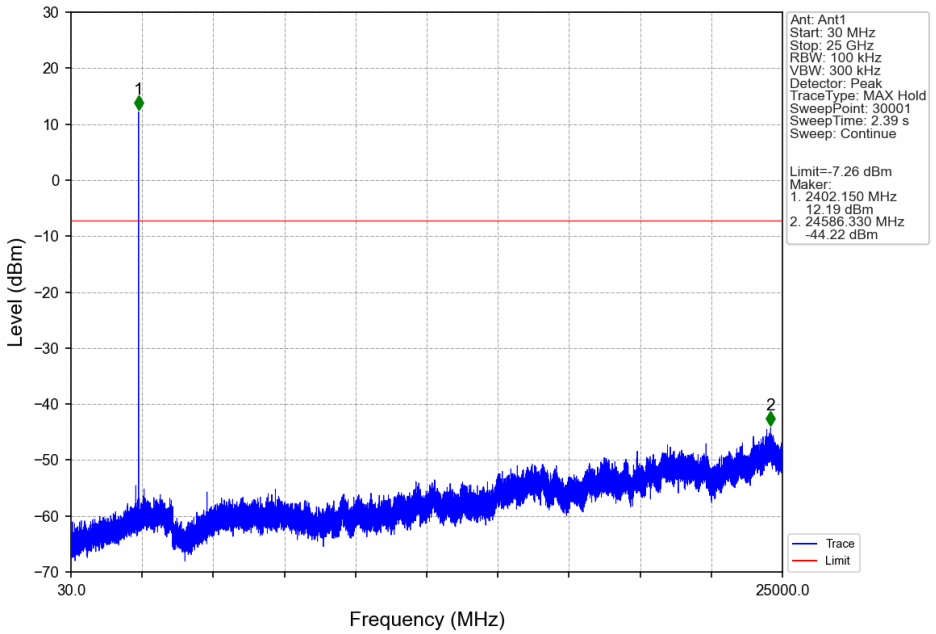

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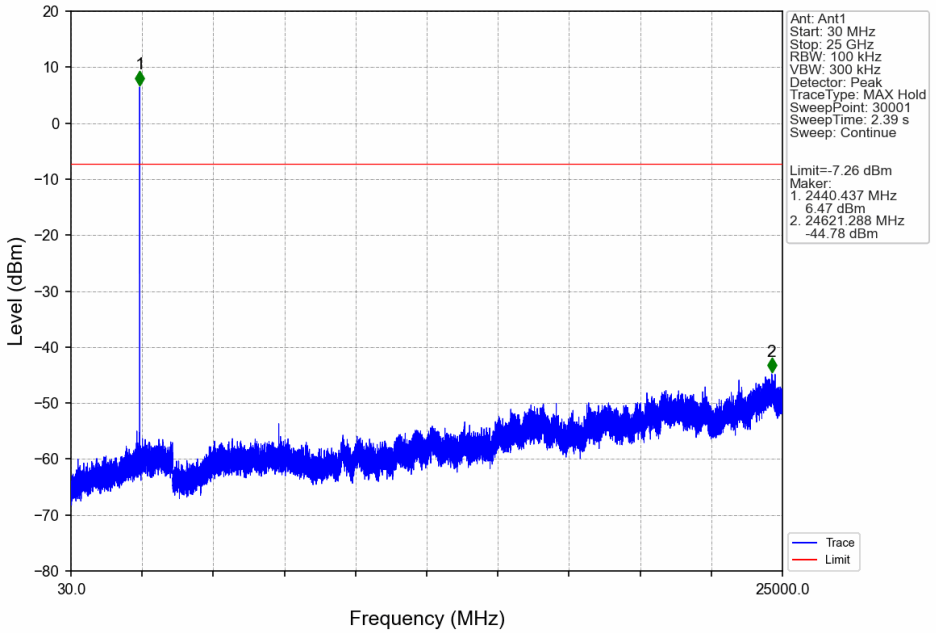
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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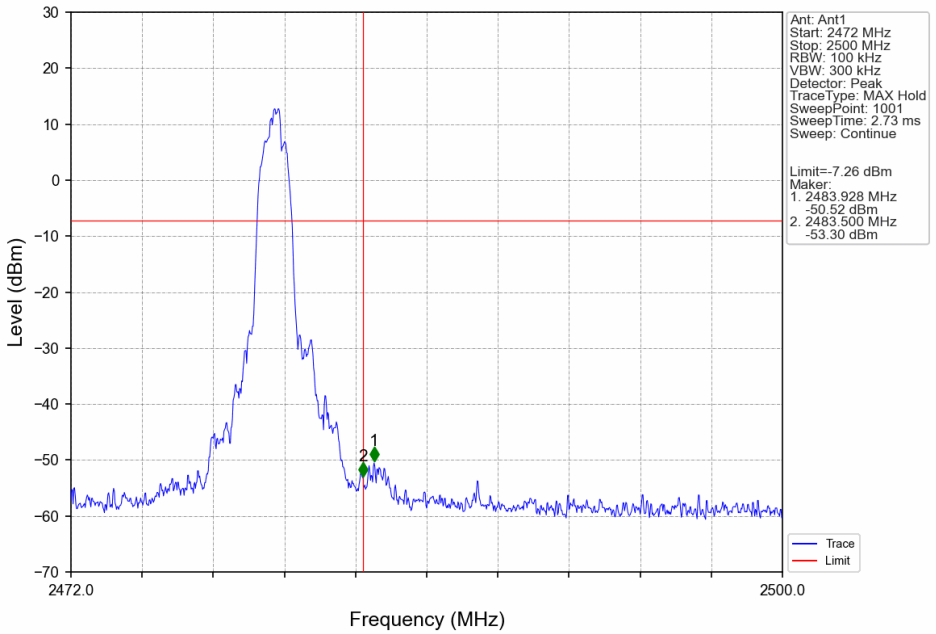

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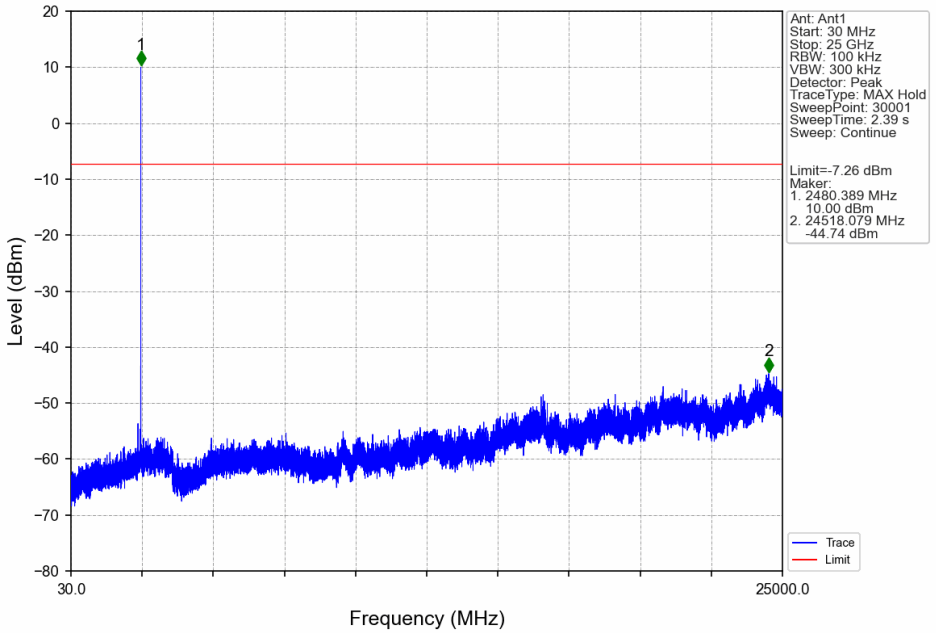
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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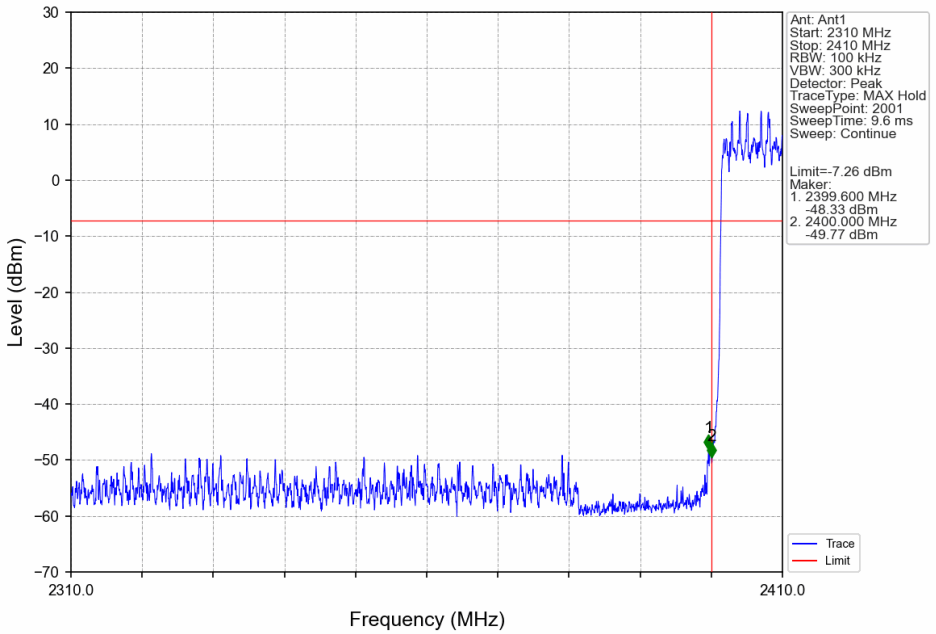

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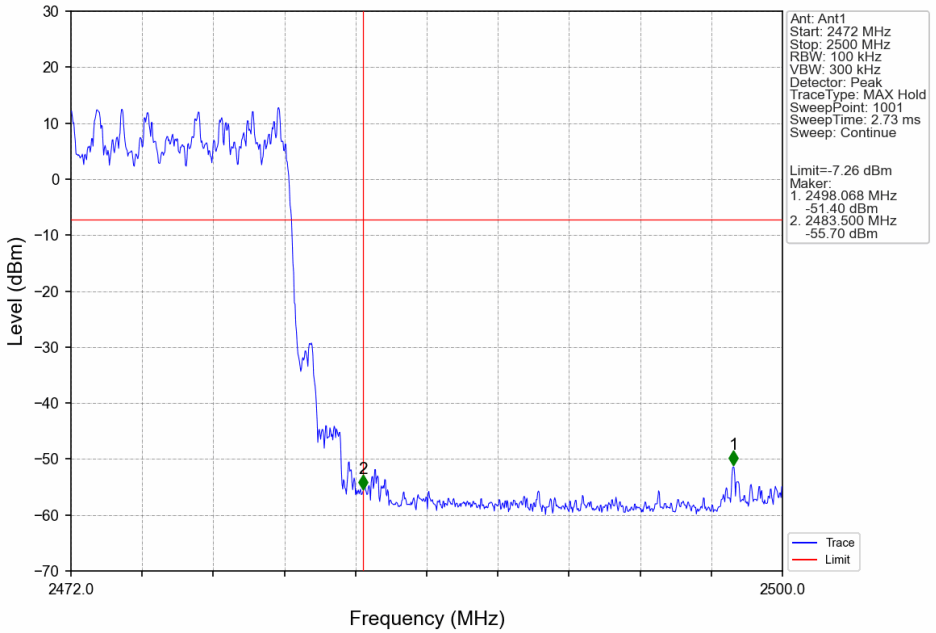
8DPSK_3DH5_HOPP_Ant1_NTNV



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For Left earbud:

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	0.944	/	Pass
		2441	DH5	1	0.949	/	Pass
		2480	DH5	1	0.948	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.132	/	Pass
		2441	2DH5	1	1.133	/	Pass
		2480	2DH5	1	1.134	/	Pass
8DPSK	SISO	2402	3DH5	1	1.143	/	Pass
		2441	3DH5	1	1.144	/	Pass
		2480	3DH5	1	1.145	/	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	1.048	/	Pass
		2441	DH5	1	1.048	/	Pass
		2480	DH5	1	1.049	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.208	/	Pass
		2441	2DH5	1	1.209	/	Pass
		2480	2DH5	1	1.210	/	Pass
8DPSK	SISO	2402	3DH5	1	1.257	/	Pass
		2441	3DH5	1	1.255	/	Pass
		2480	3DH5	1	1.256	/	Pass

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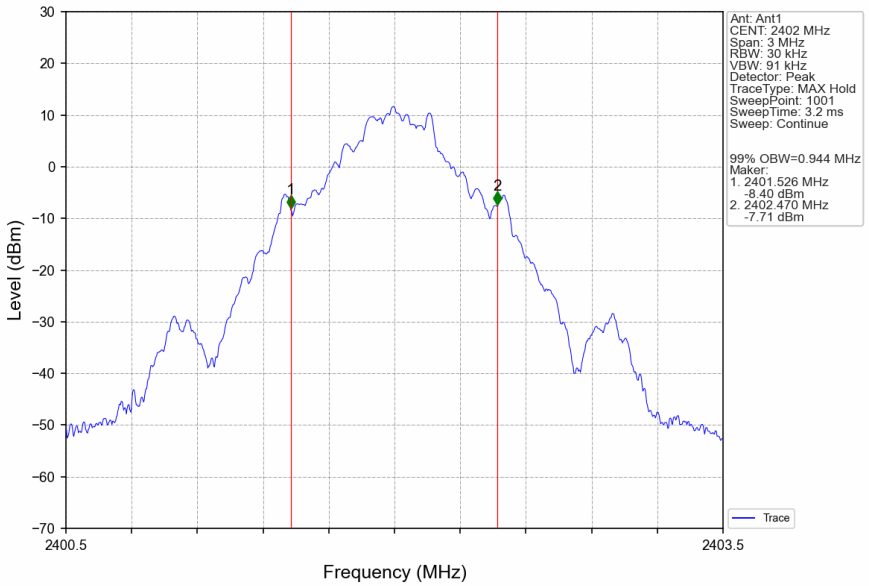
1.2 Test Graph

1.2.1 OBW

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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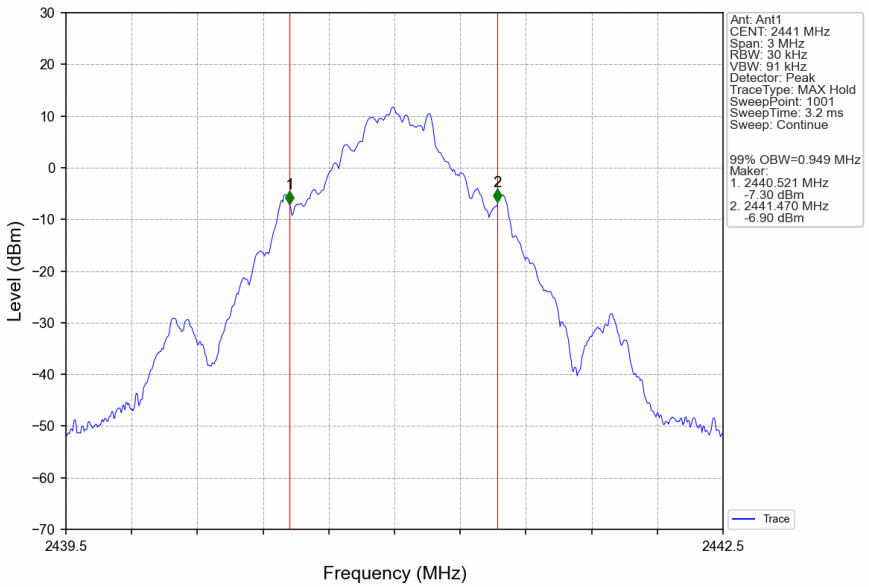

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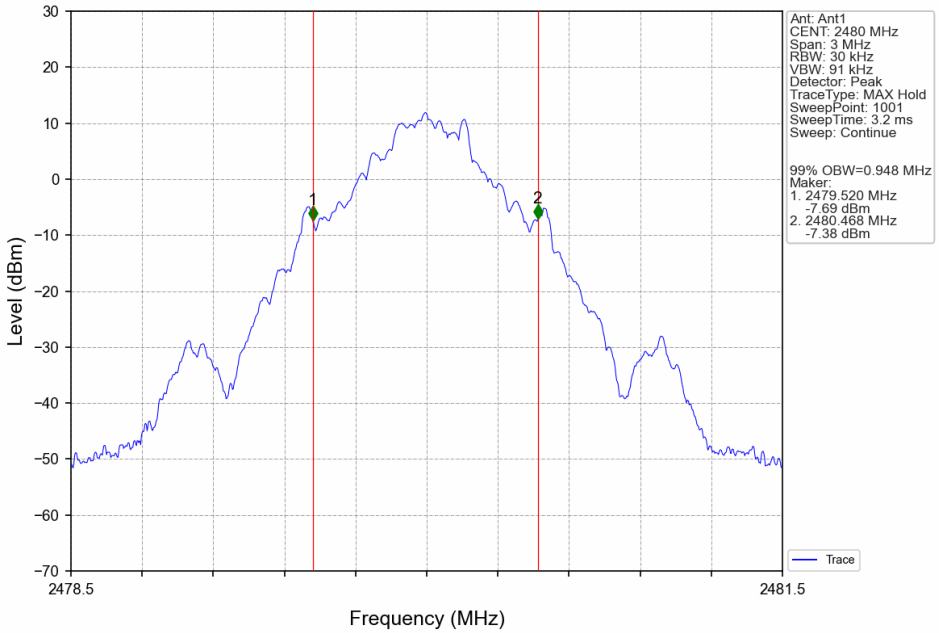
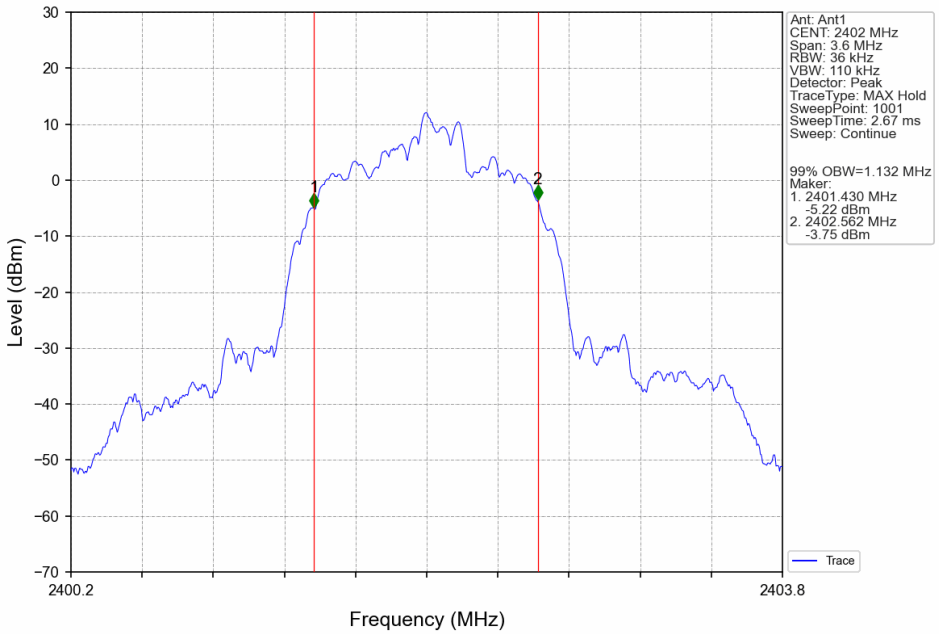
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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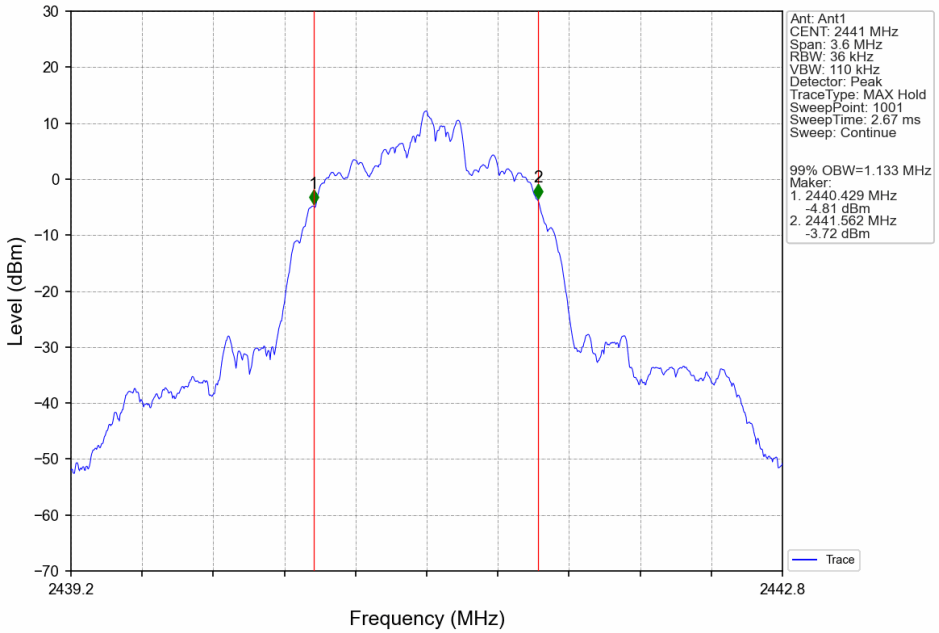
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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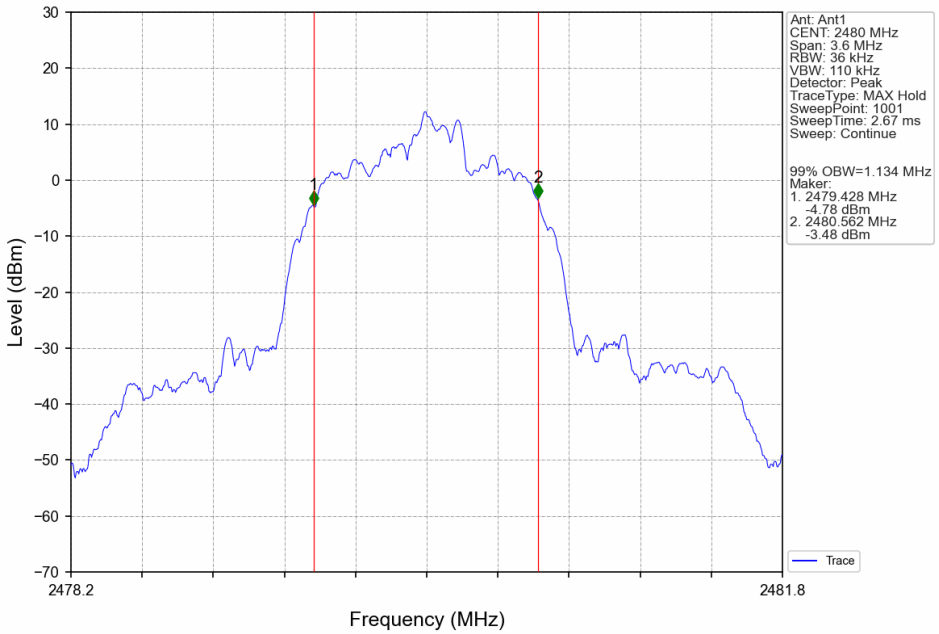

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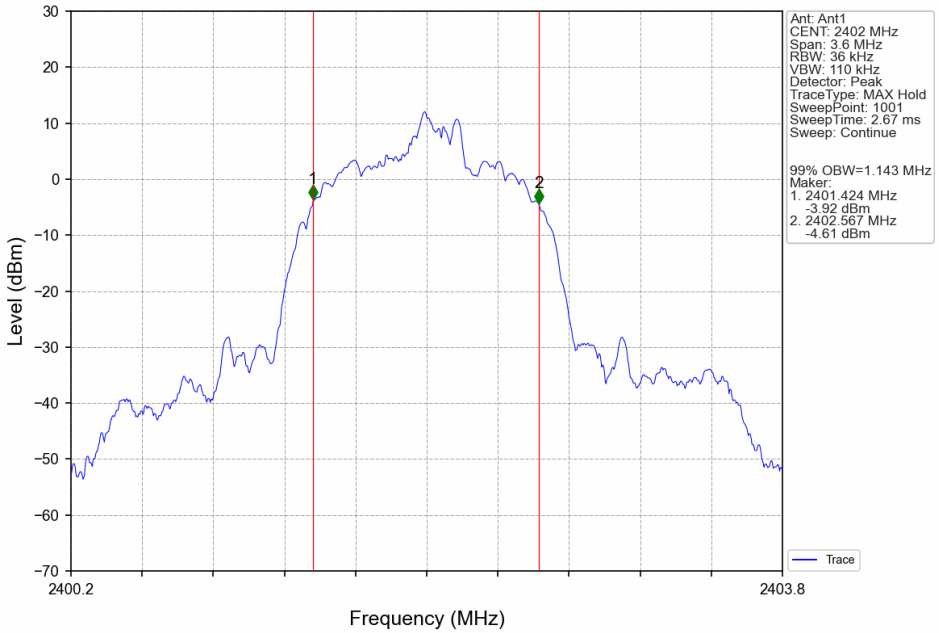
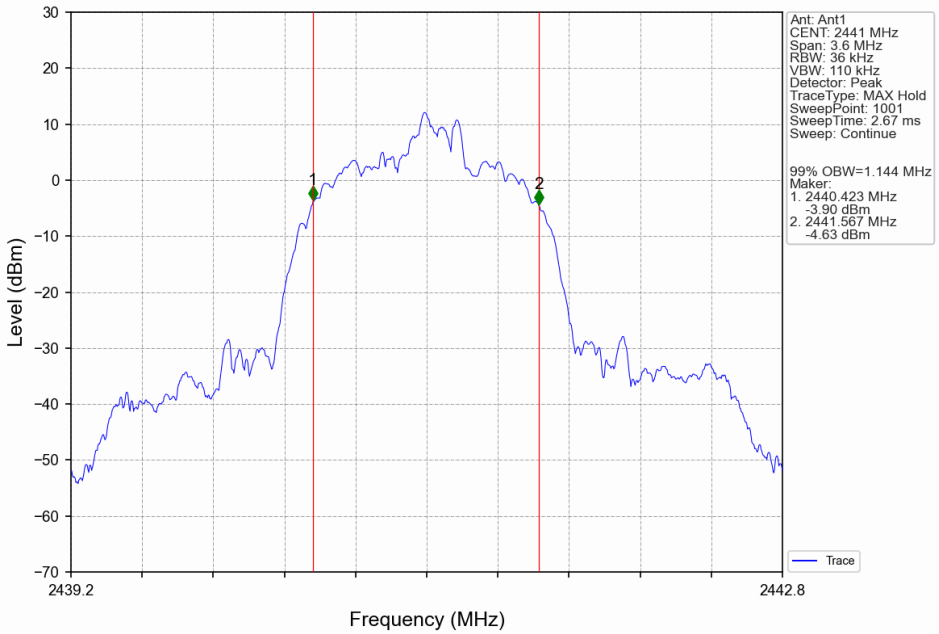


8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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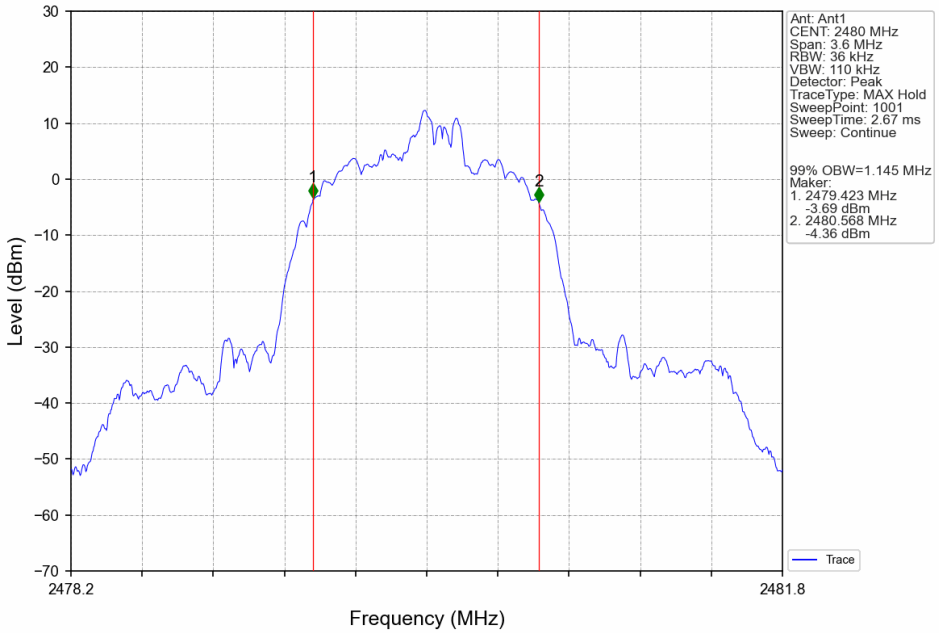
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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1.2.2 20dB BW

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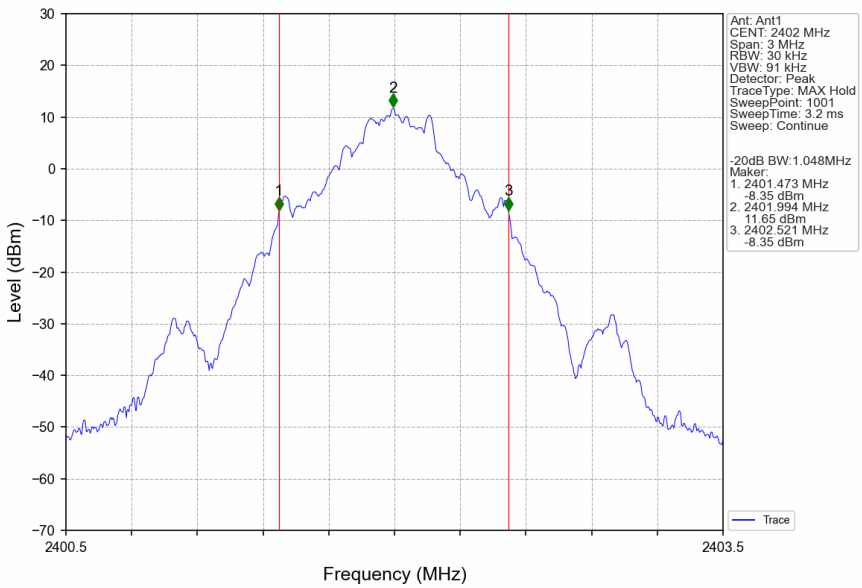

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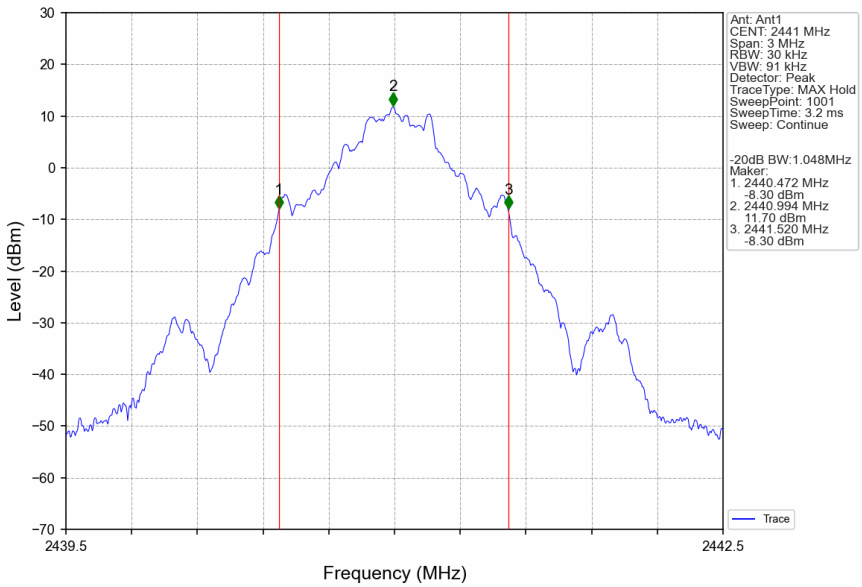

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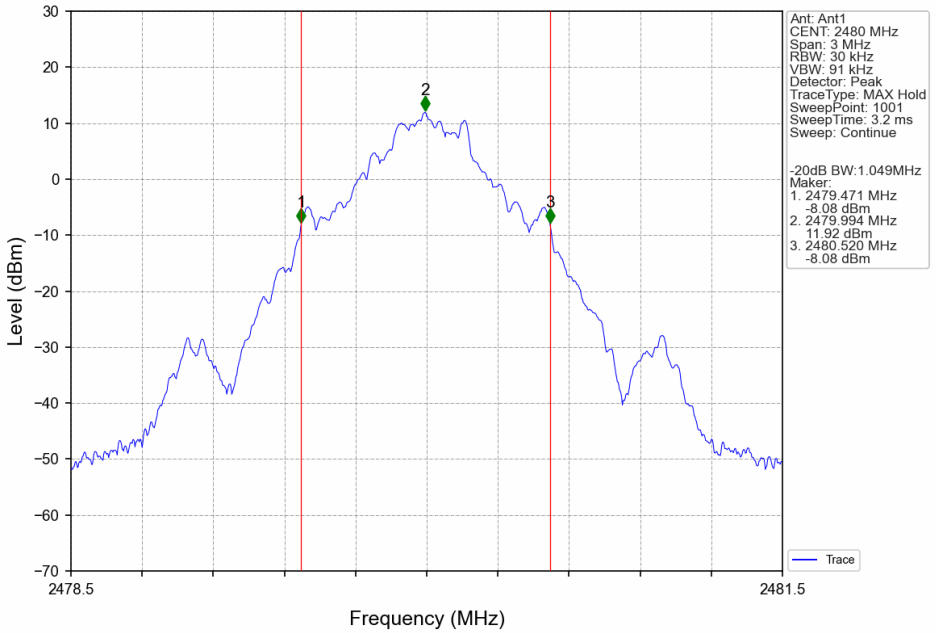
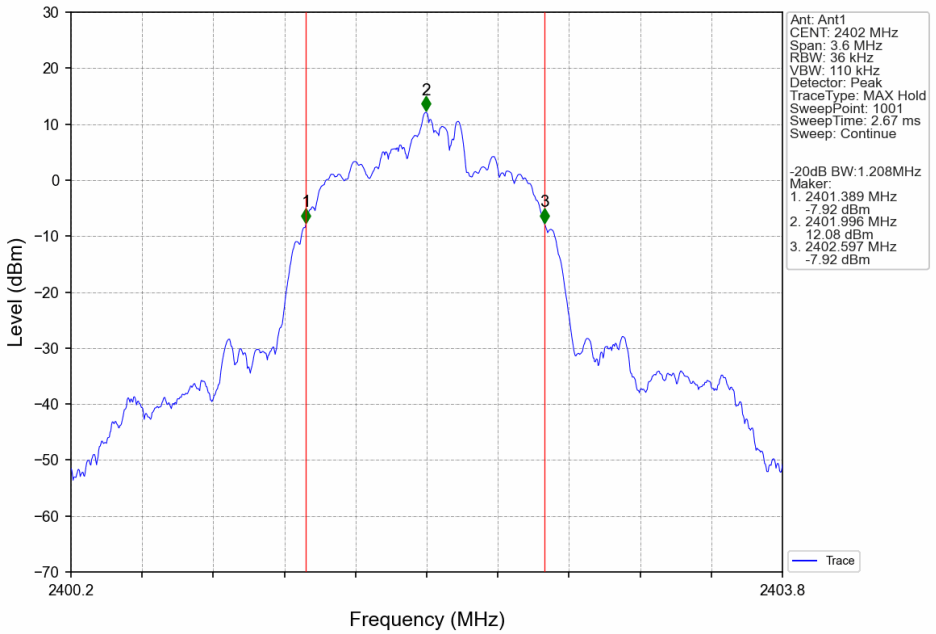
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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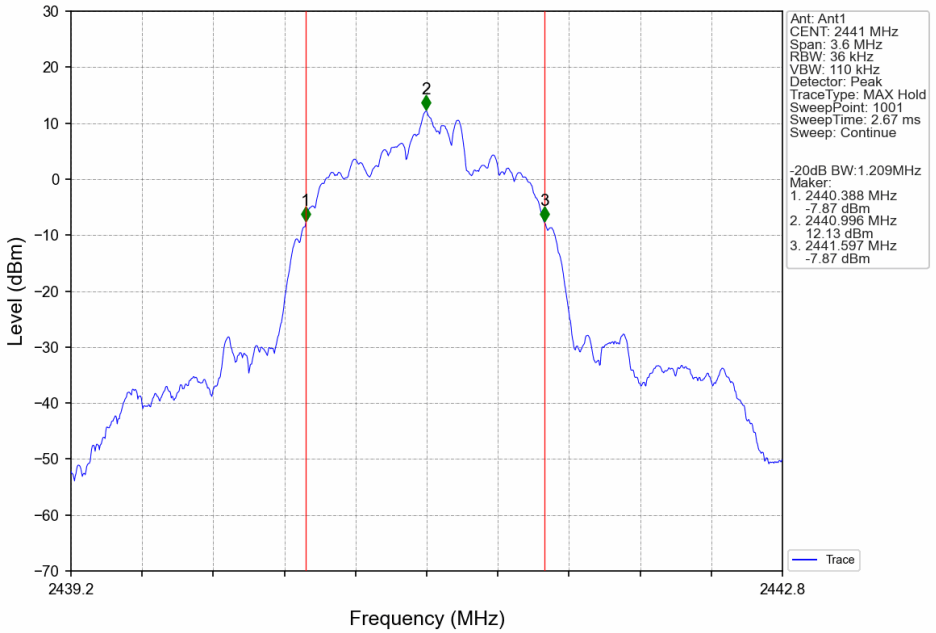
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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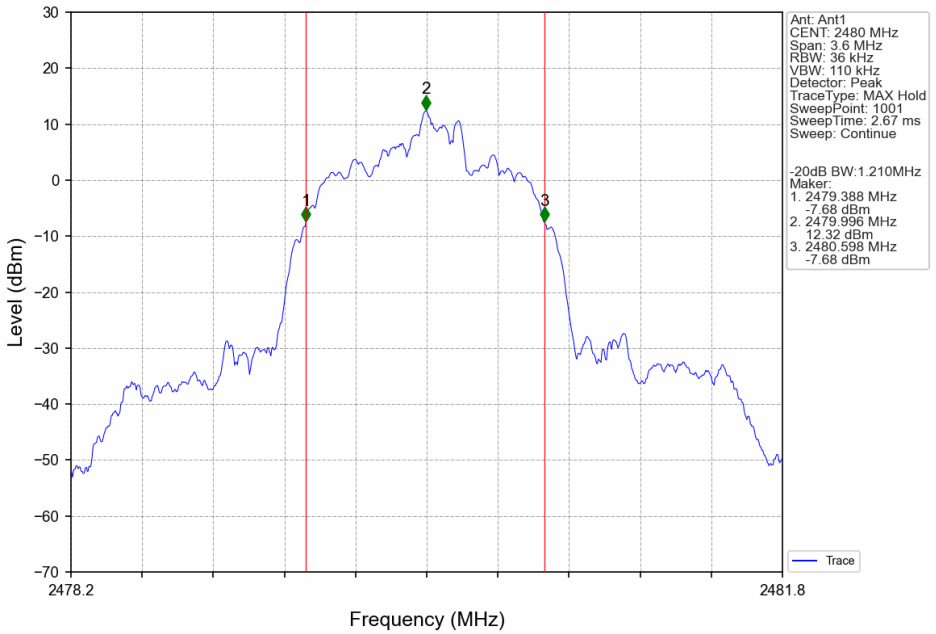

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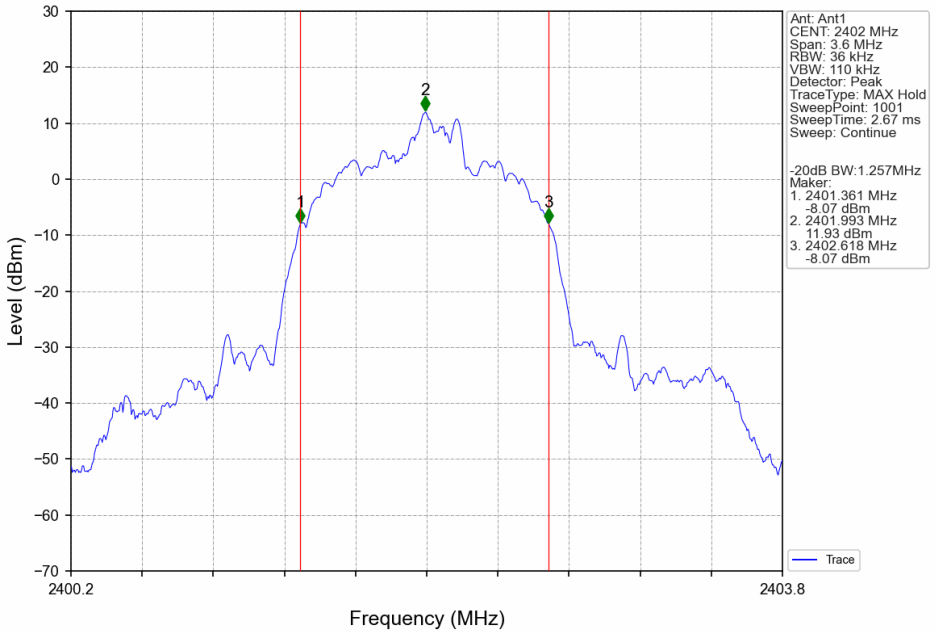
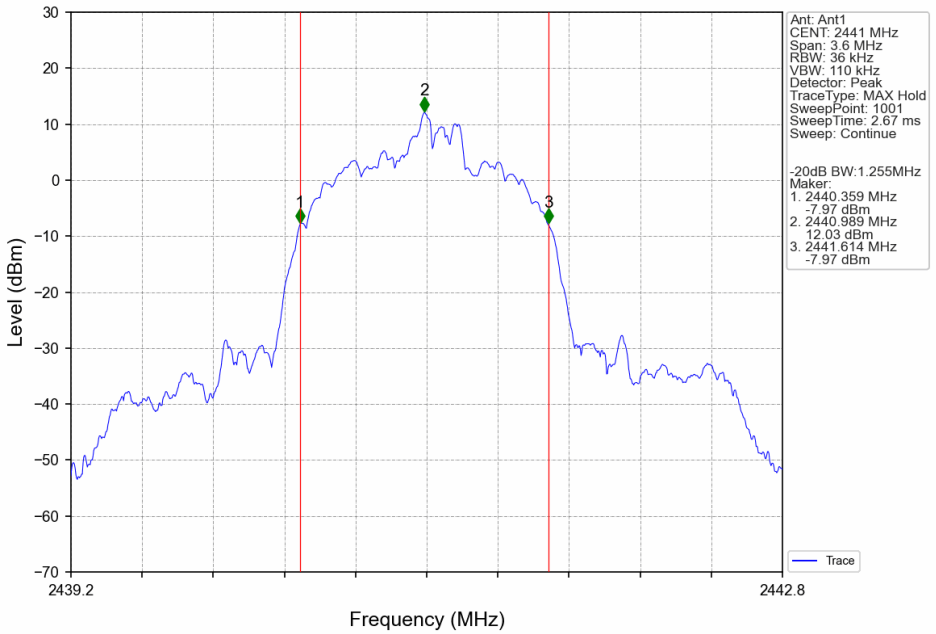
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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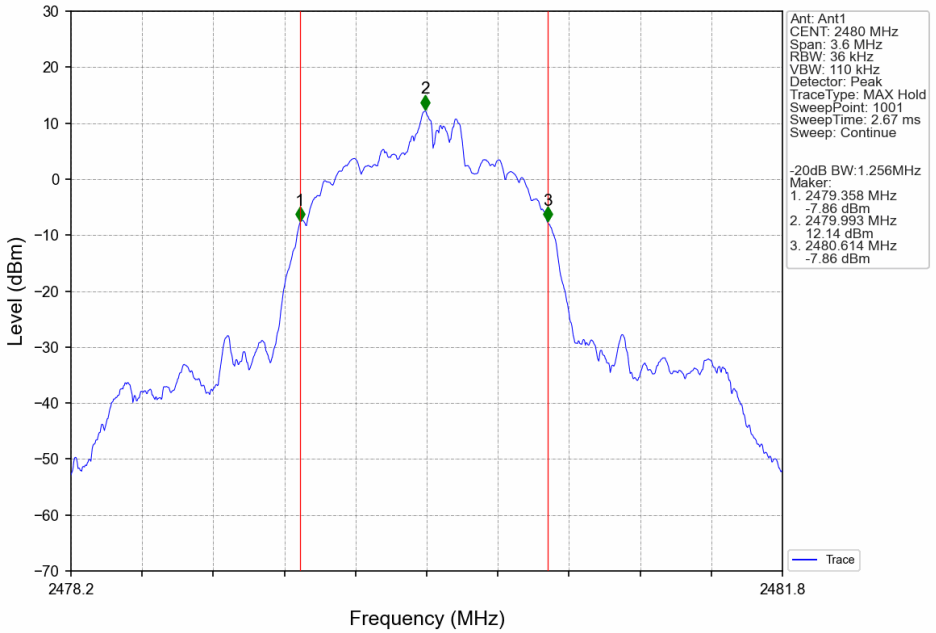
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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	12.85	<=30	Pass
		2441	DH5	12.90	<=30	Pass
		2480	DH5	13.07	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	12.86	<=20.97	Pass
		2441	2DH5	12.90	<=20.97	Pass
		2480	2DH5	13.07	<=20.97	Pass
8DPSK	SISO	2402	3DH5	12.78	<=20.97	Pass
		2441	3DH5	12.81	<=20.97	Pass
		2480	3DH5	13.01	<=20.97	Pass
Note1: Antenna Gain: Ant1: 1.44dBi;						

3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	1.049	>=0.699	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.989	1.210	>=0.807	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.257	>=0.838	Pass

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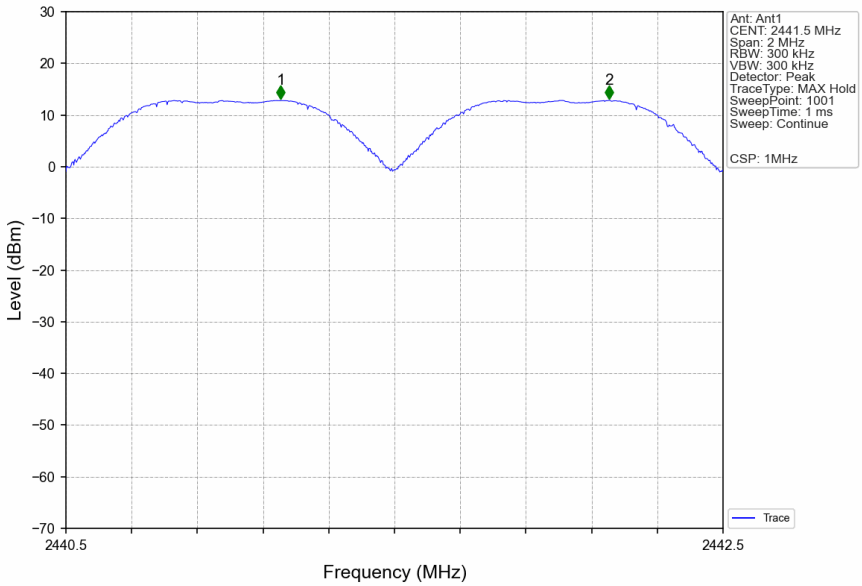
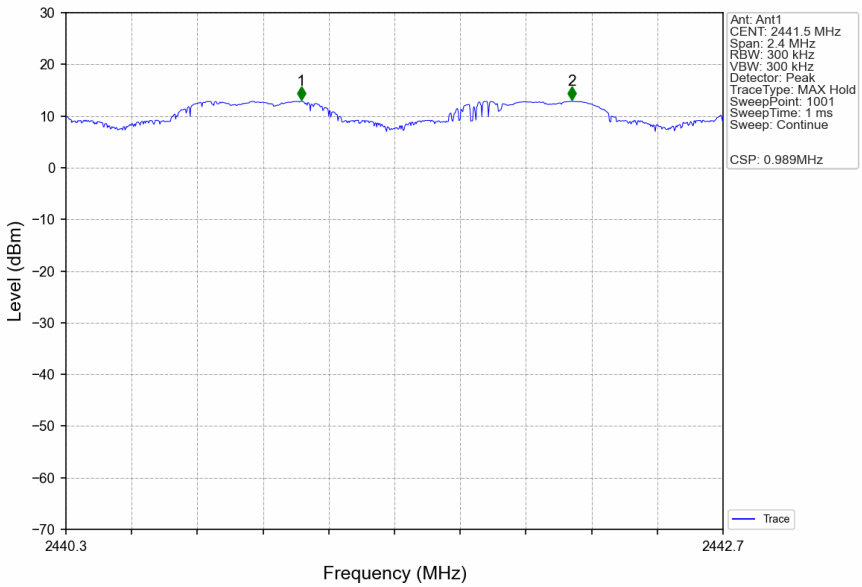
3.2 Test Graph

3.2.1 Ant1

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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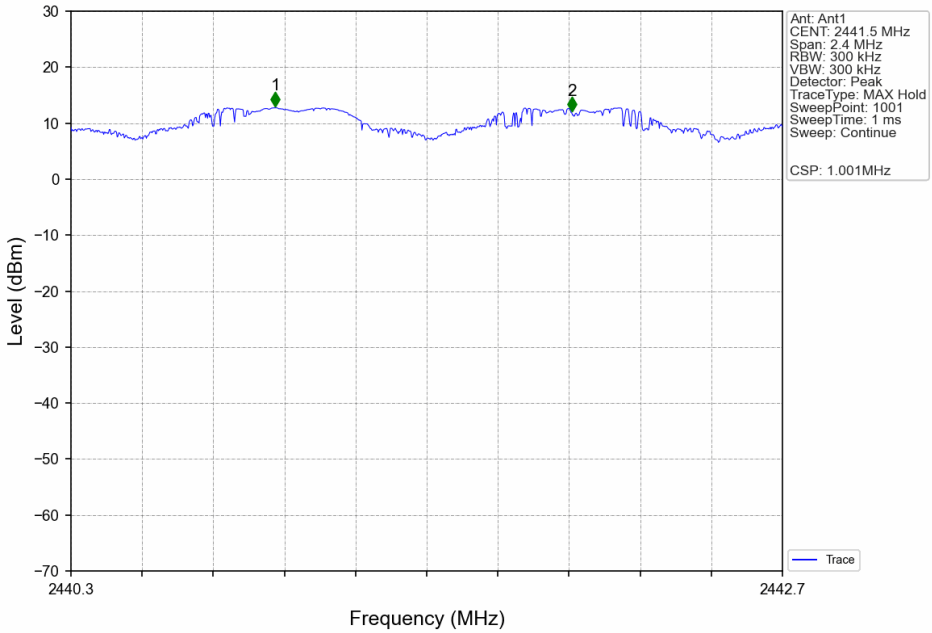

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4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

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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4.2 Test Graph

4.2.1 HoppNum

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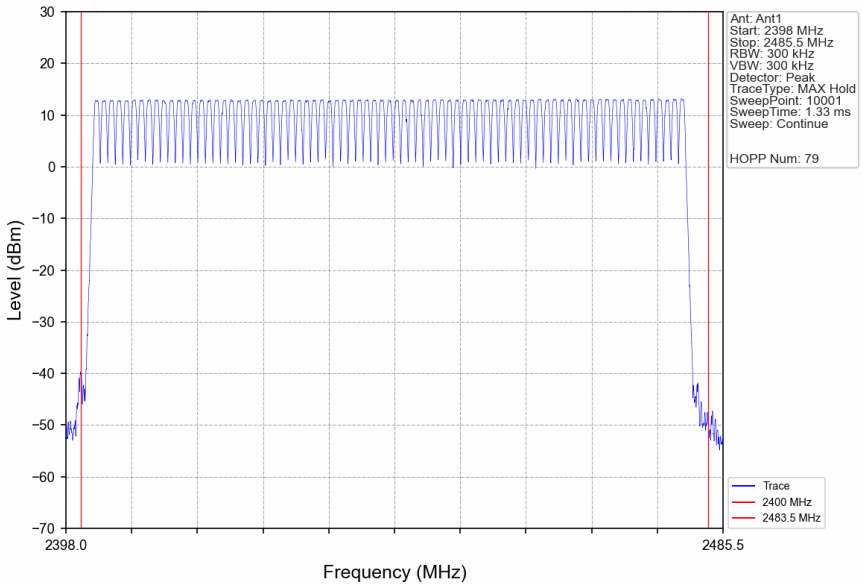
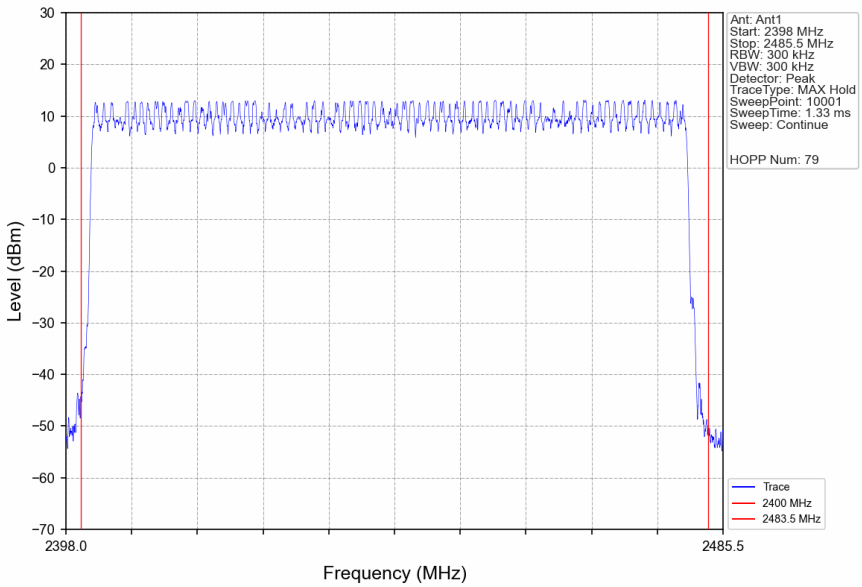


Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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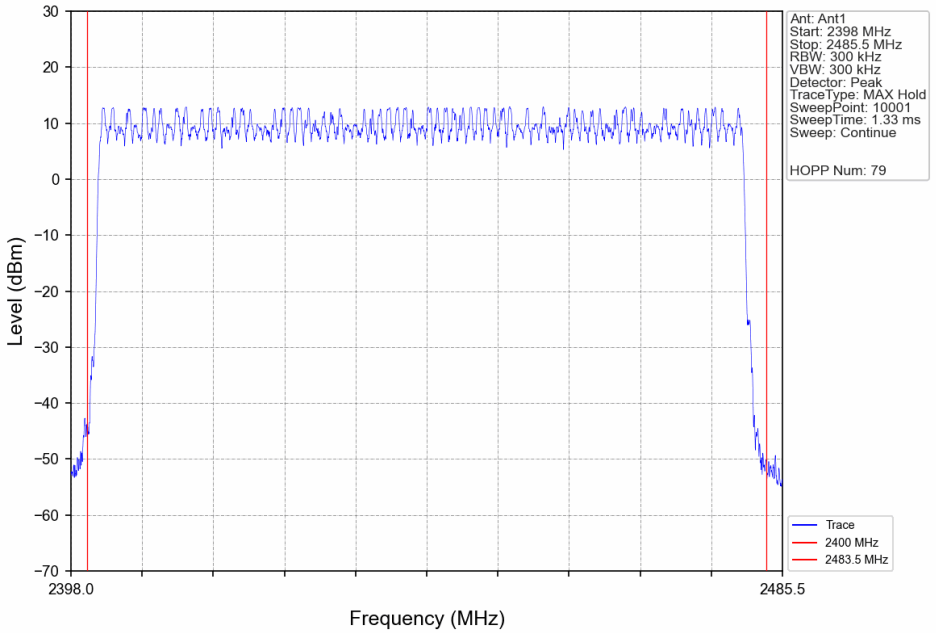

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5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

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	170	66.300	<=400	Pass
			DH3	1.648	31.600	111	182.928	<=400	Pass
			DH5	2.894	31.600	73	211.262	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.402	31.600	169	67.938	<=400	Pass
			2DH3	1.652	31.600	98	161.896	<=400	Pass
			2DH5	2.900	31.600	74	214.600	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	151	60.098	<=400	Pass
			3DH3	1.650	31.600	113	186.450	<=400	Pass
			3DH5	2.900	31.600	85	246.500	<=400	Pass

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5.2 Test Graph

5.2.1 Ant1

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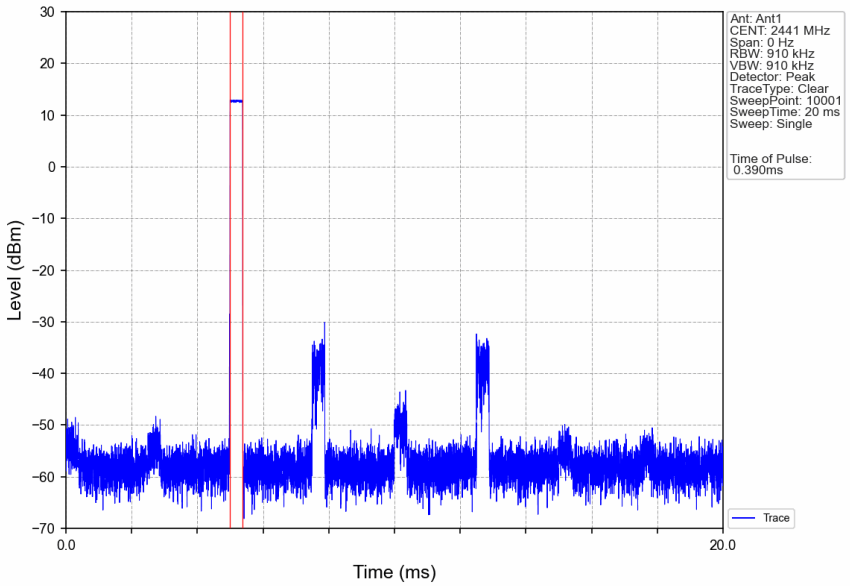
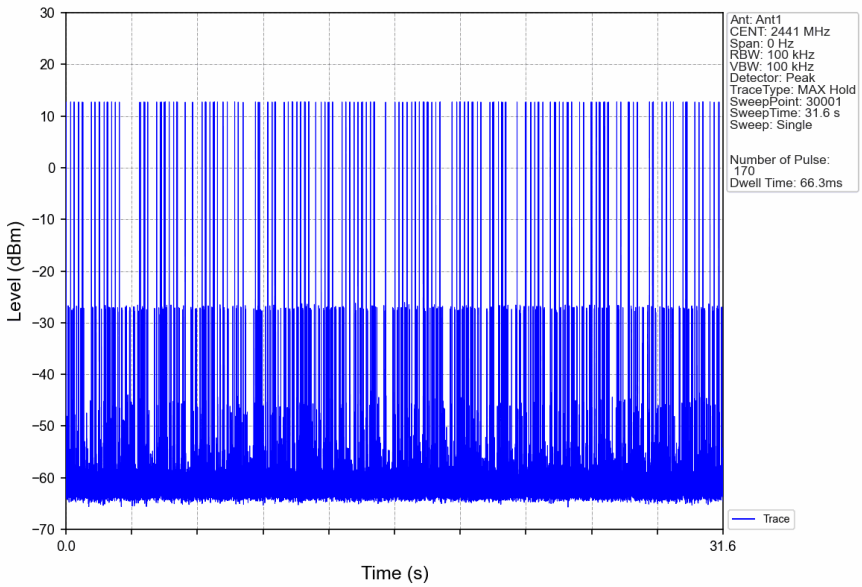


GFSK_DH1_HOPP_Ant1_NTNV



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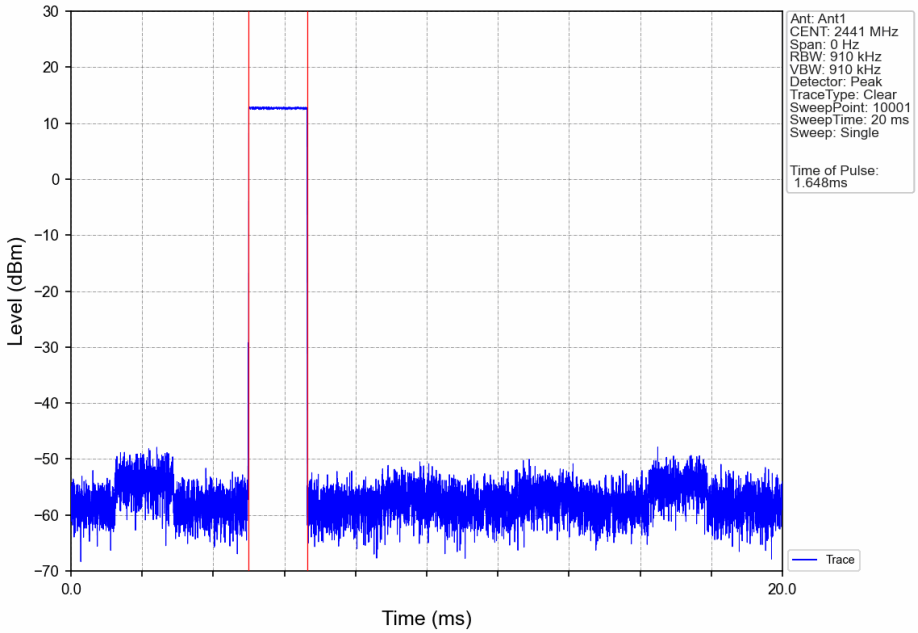
GFSK_DH3_HOPP_Ant1_NTNV



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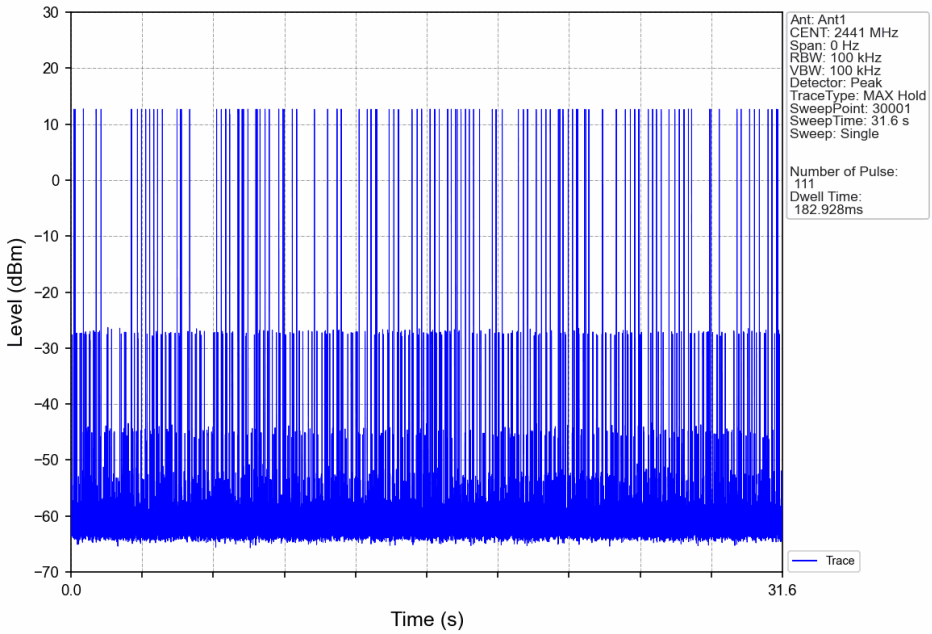

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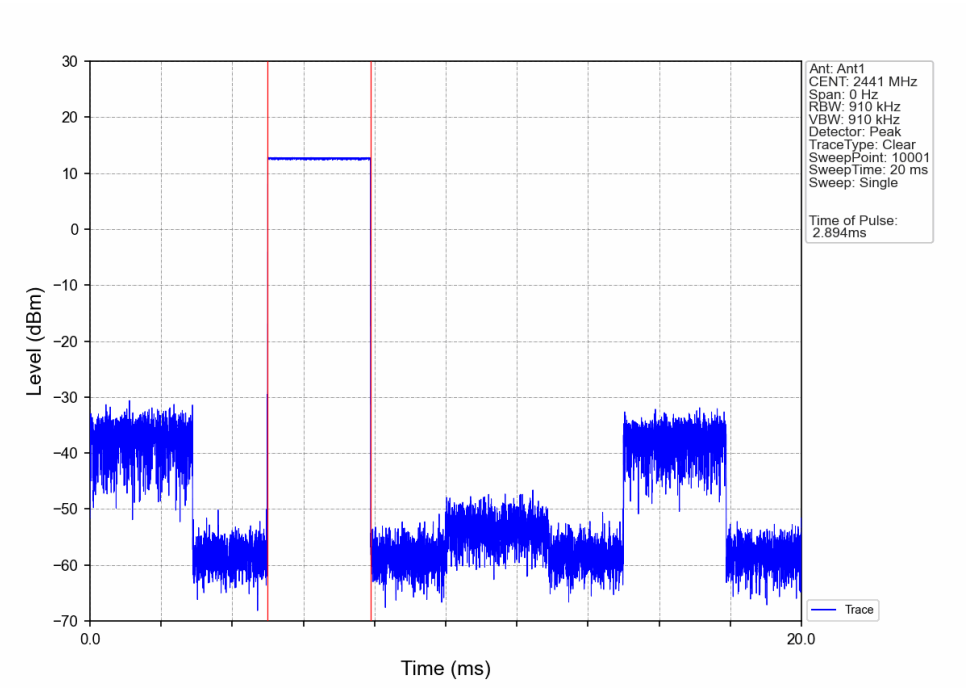
GFSK_DH5_HOPP_Ant1_NTNV



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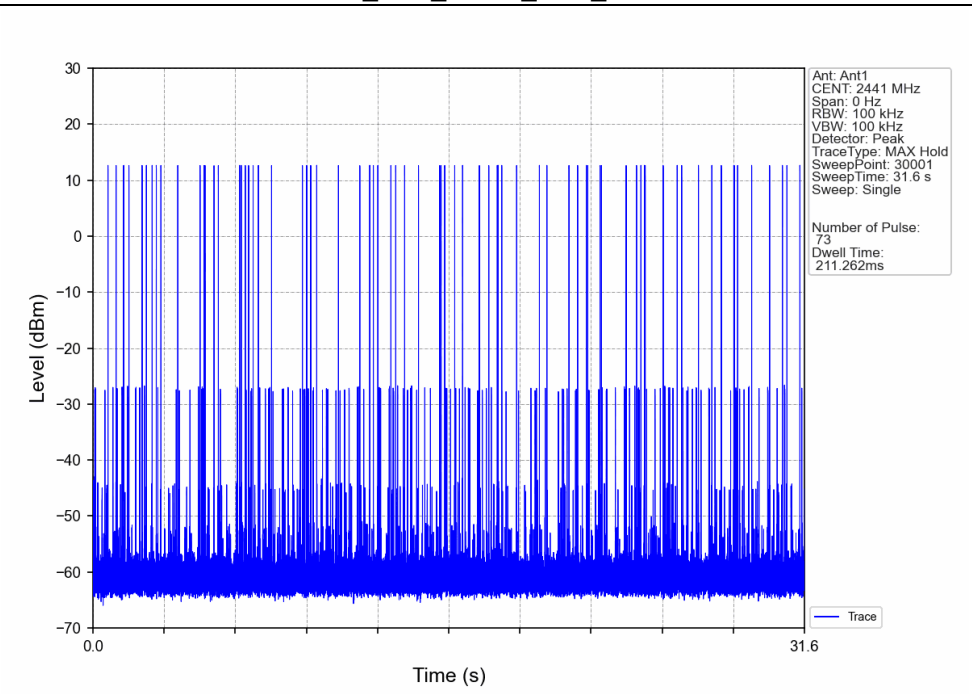

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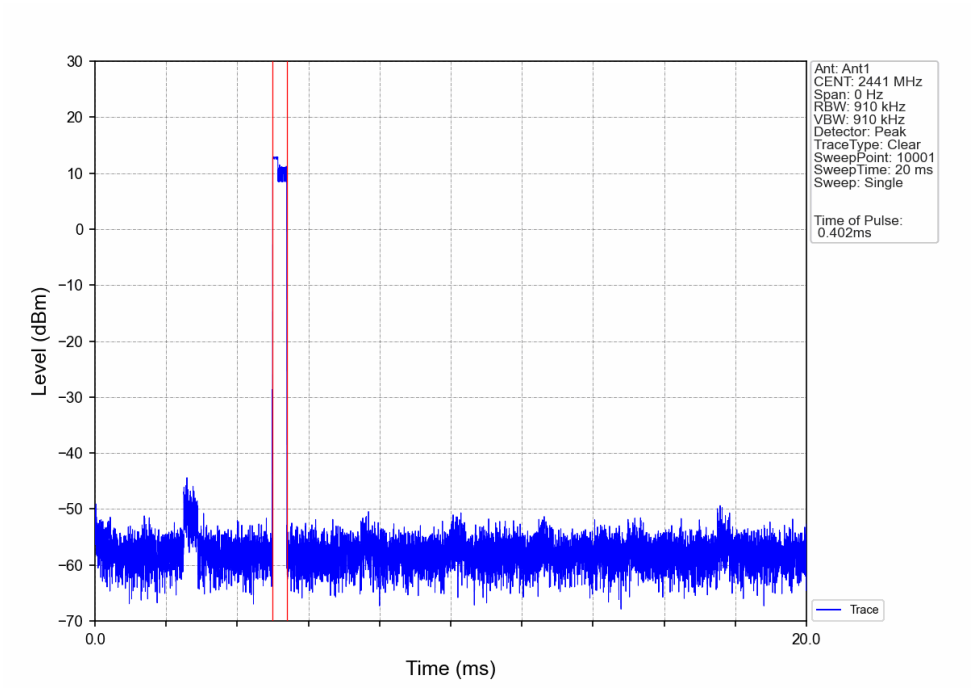

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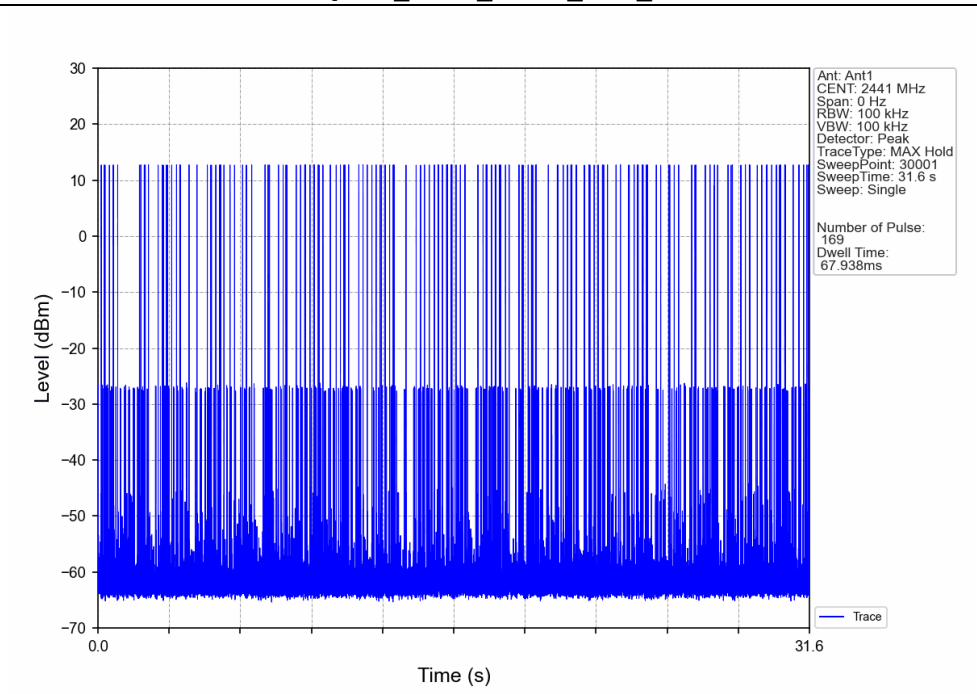

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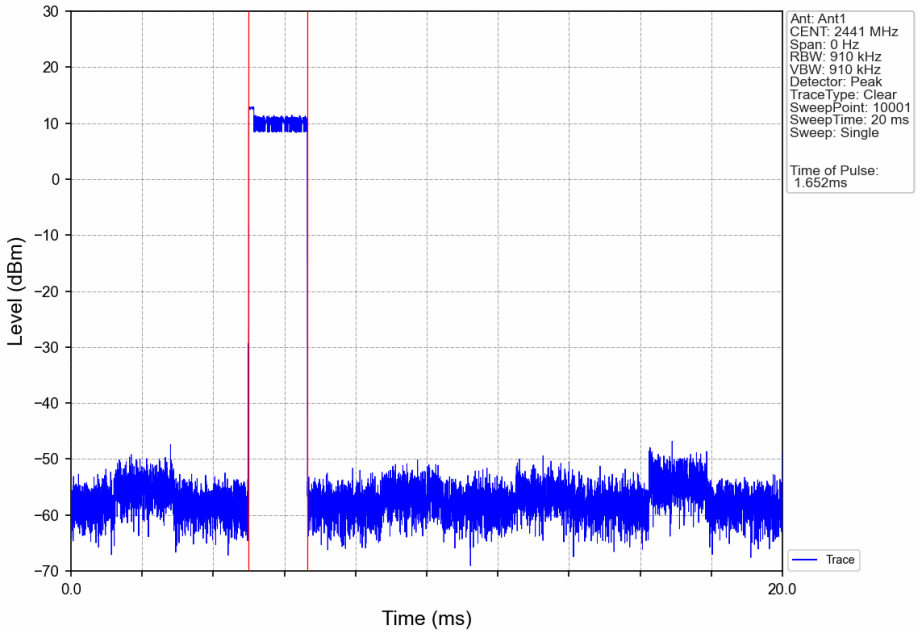

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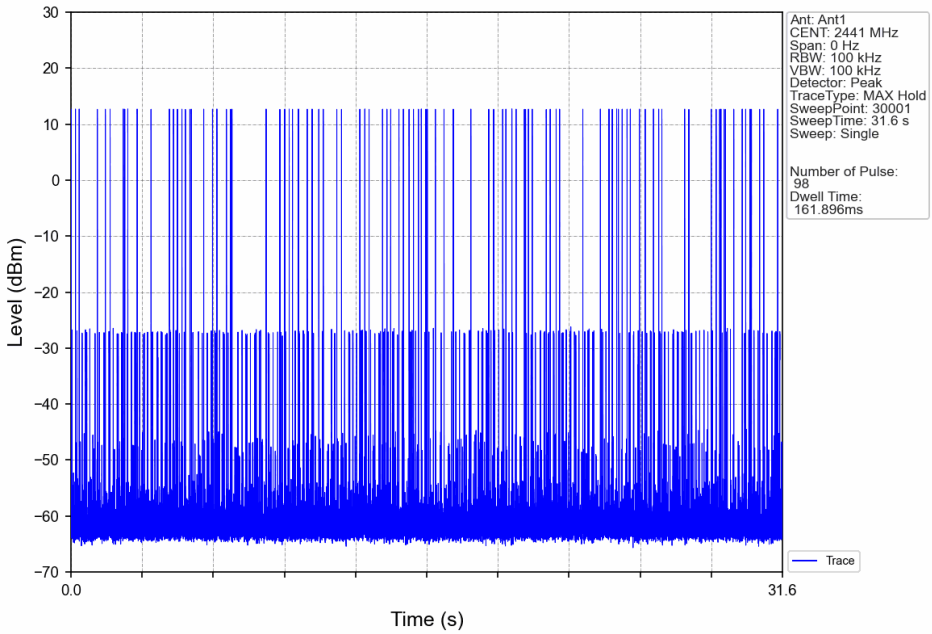

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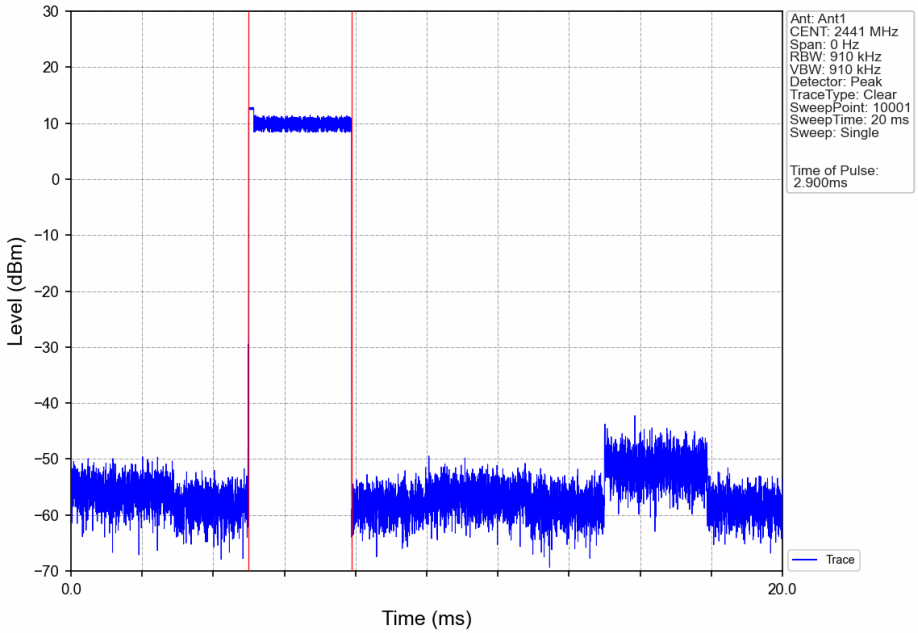
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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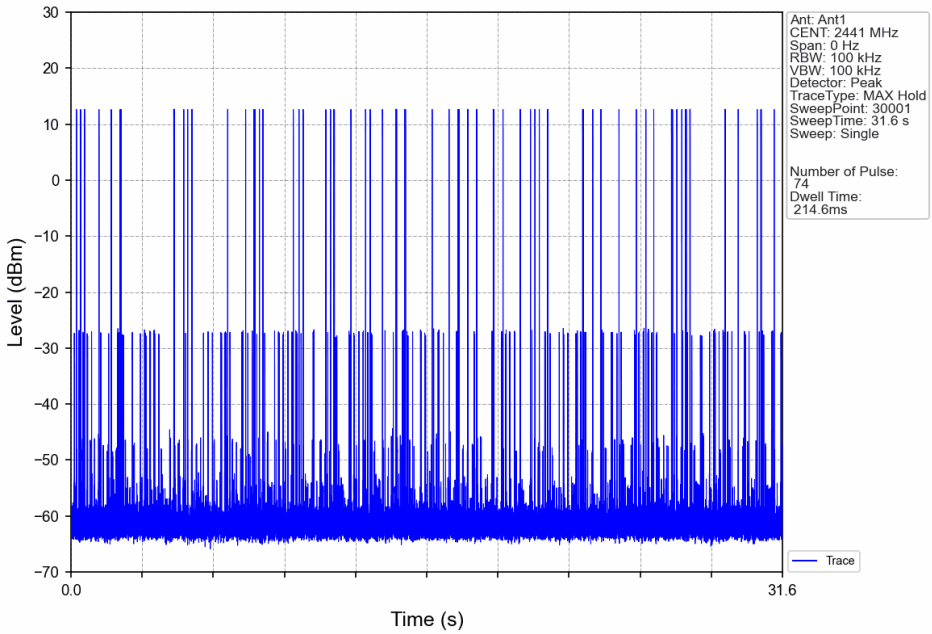

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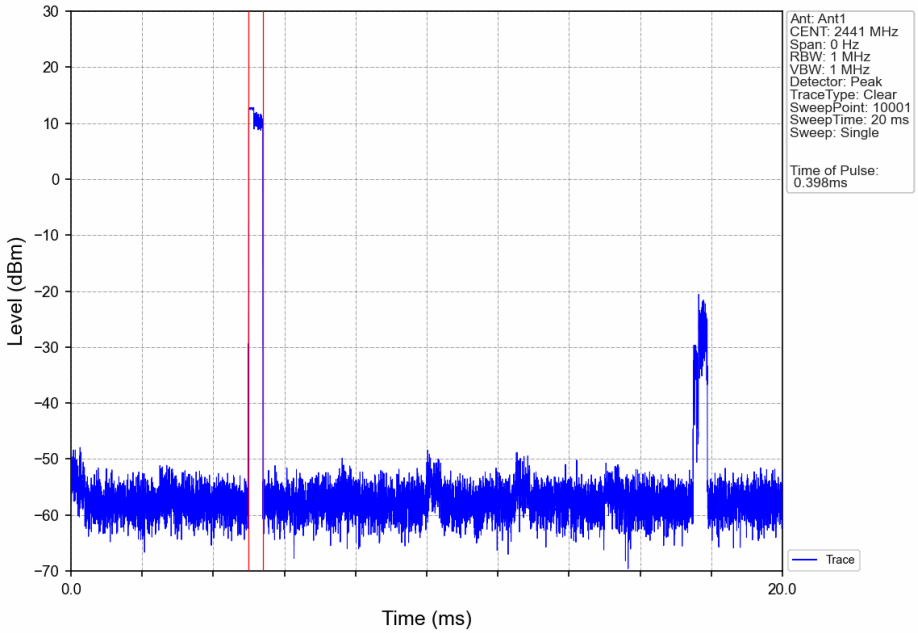
8DPSK_3DH1_HOPP_Ant1_NTNV



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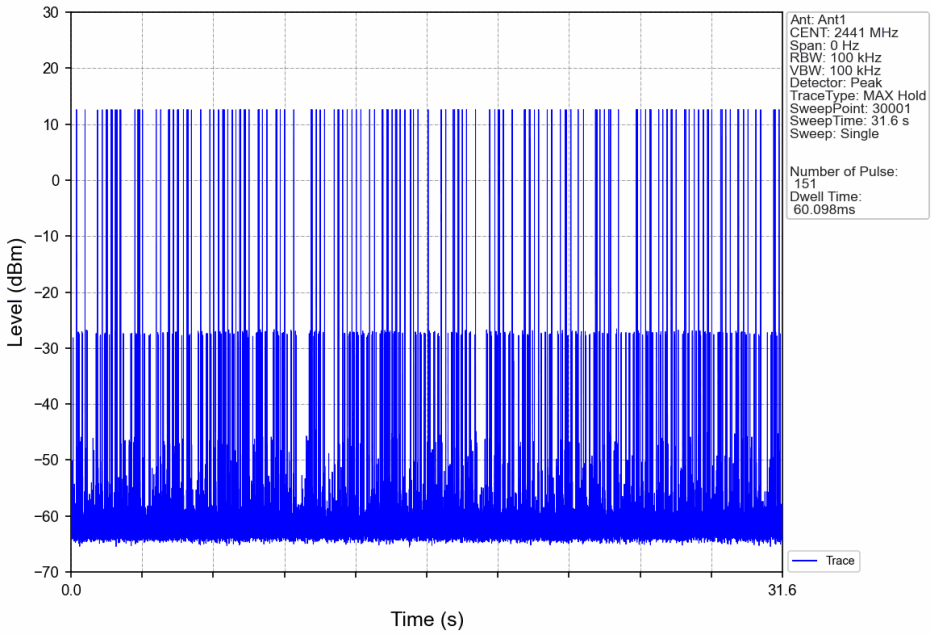

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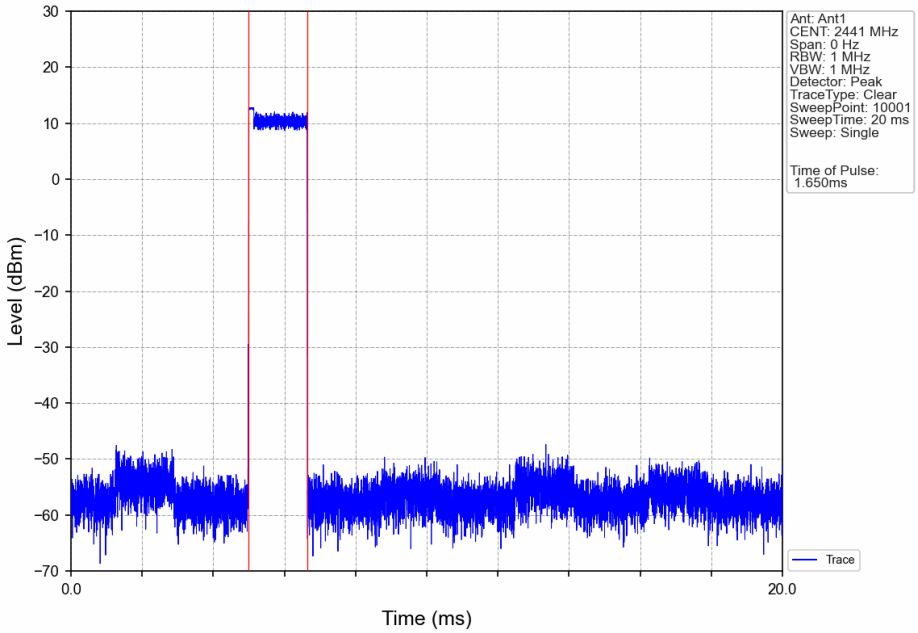
8DPSK_3DH3_HOPP_Ant1_NTNV



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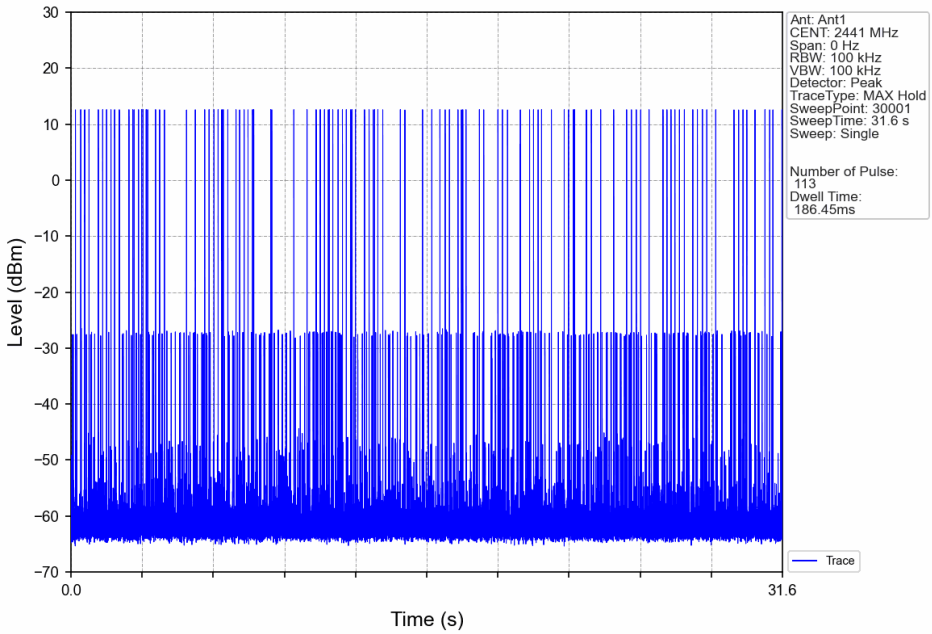

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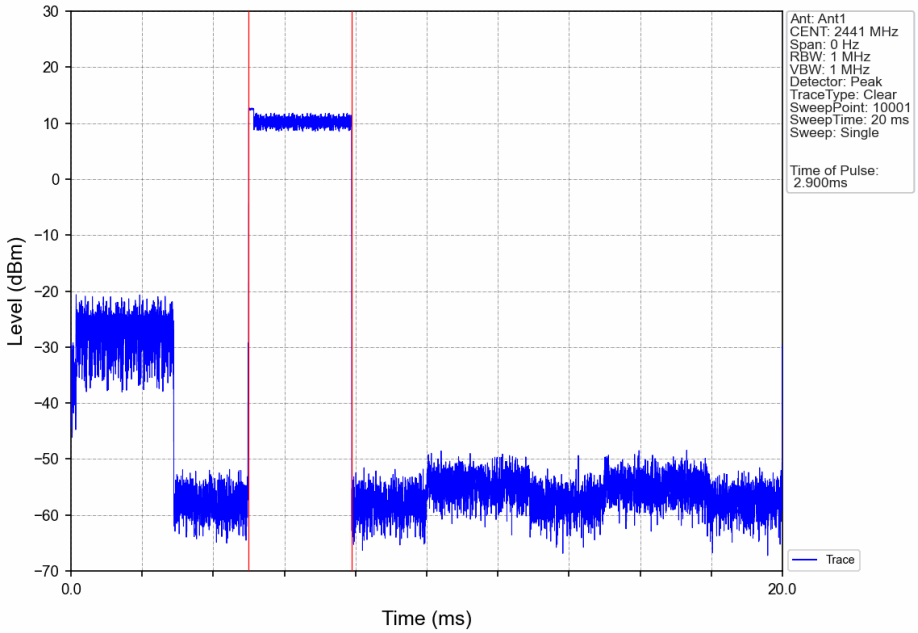

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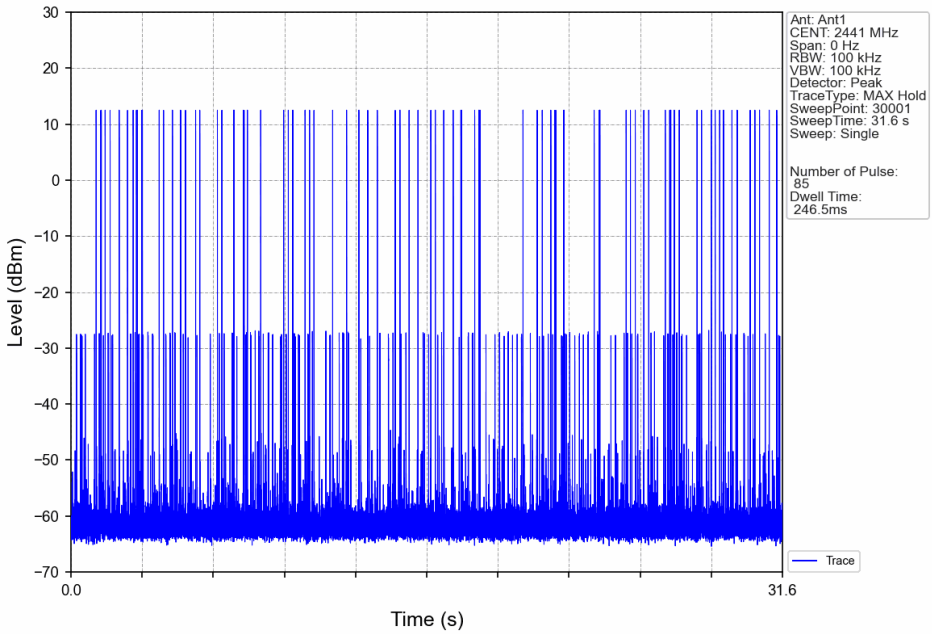

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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	12.67
		2441	DH5	1	12.74
		2480	DH5	1	12.92
Pi/4DQPSK	SISO	2402	2DH5	1	12.54
		2441	2DH5	1	12.75
		2480	2DH5	1	12.90
8DPSK	SISO	2402	3DH5	1	12.58
		2441	3DH5	1	12.67
		2480	3DH5	1	12.83
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.					

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	12.92	-7.08	Pass
		2441	DH5	1	12.92	-7.08	Pass
		2480	DH5	1	12.92	-7.08	Pass
		HOPP	DH5	1	12.92	-7.08	Pass
					12.92	-7.08	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	12.90	-7.10	Pass
		2441	2DH5	1	12.90	-7.10	Pass
		2480	2DH5	1	12.90	-7.10	Pass
		HOPP	2DH5	1	12.90	-7.10	Pass
					12.90	-7.10	Pass
8DPSK	SISO	2402	3DH5	1	12.83	-7.17	Pass
		2441	3DH5	1	12.83	-7.17	Pass
		2480	3DH5	1	12.83	-7.17	Pass
		HOPP	3DH5	1	12.83	-7.17	Pass
					12.83	-7.17	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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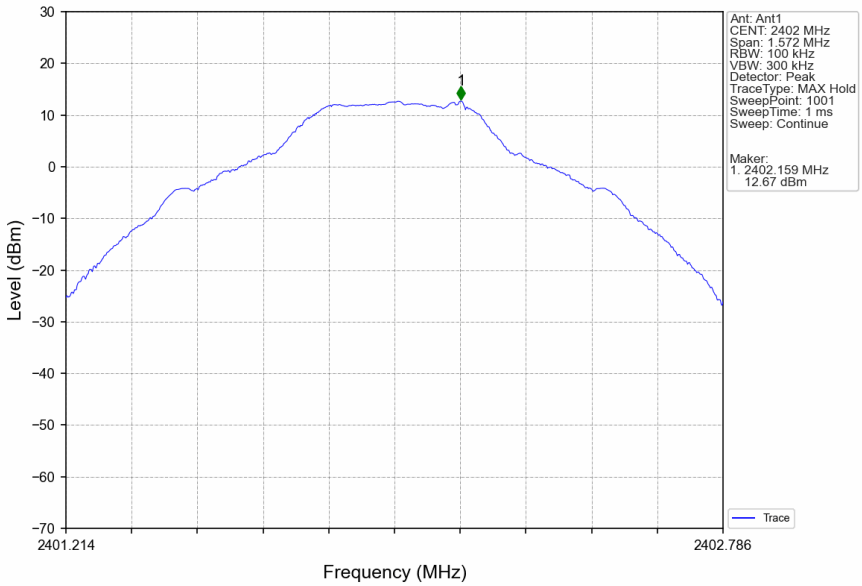
6.2 Test Graph

6.2.1 Ref

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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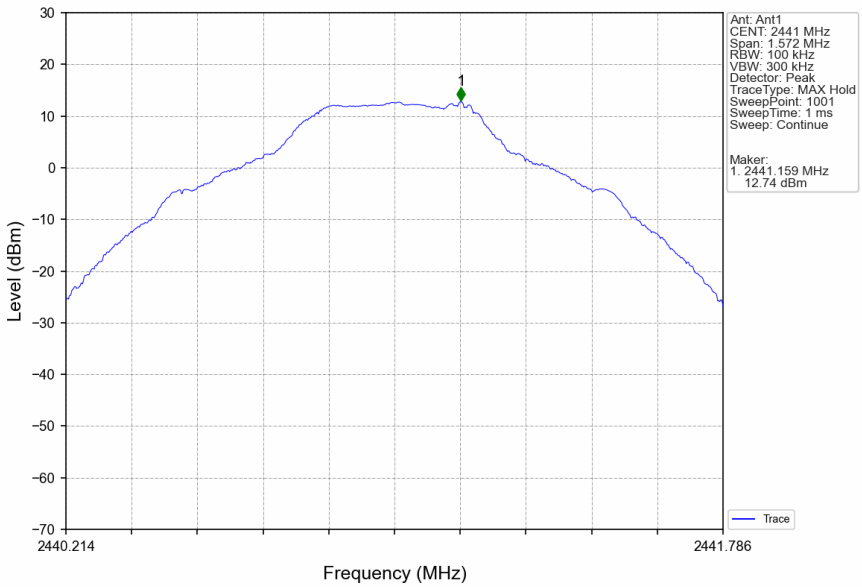

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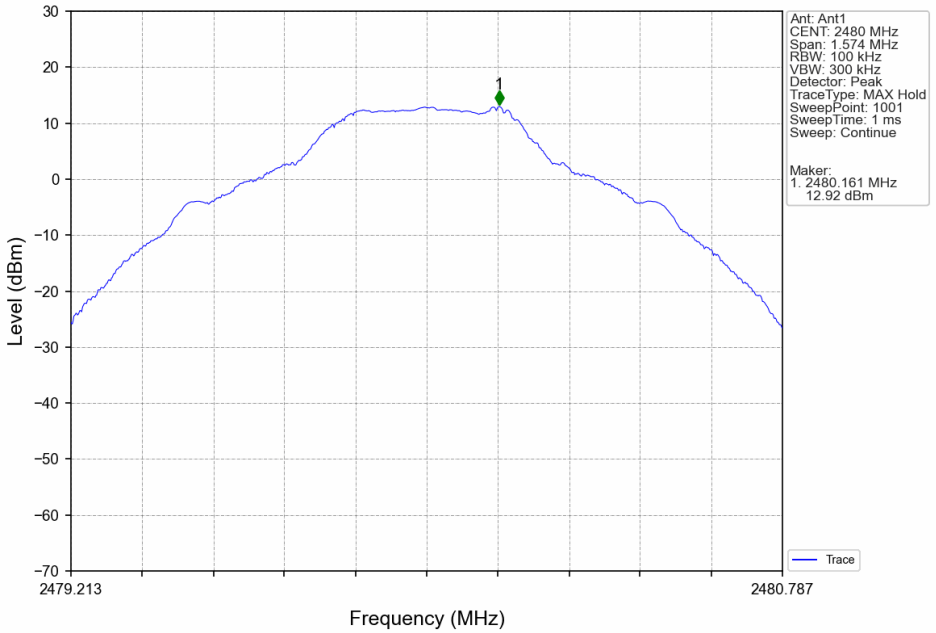
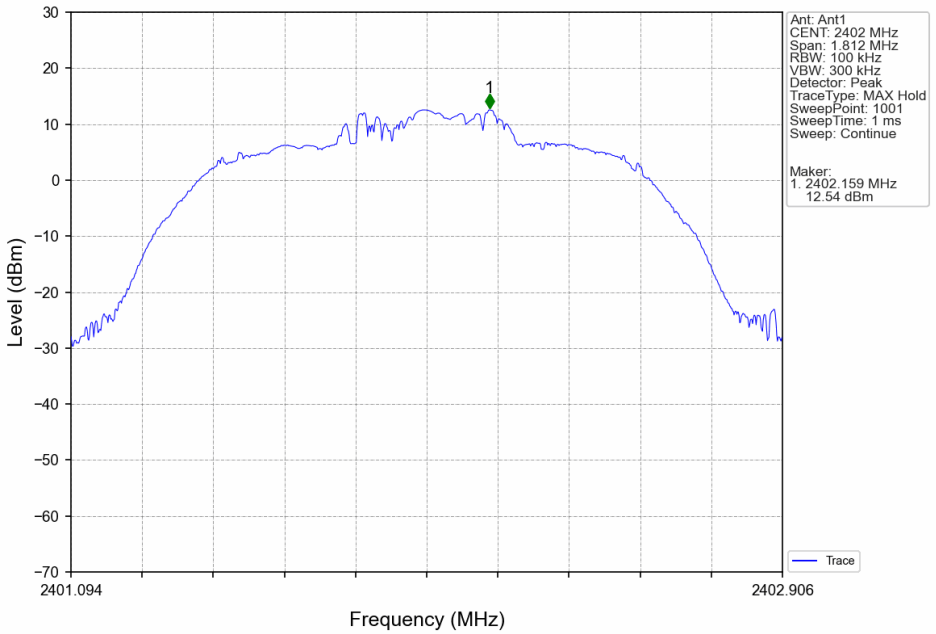
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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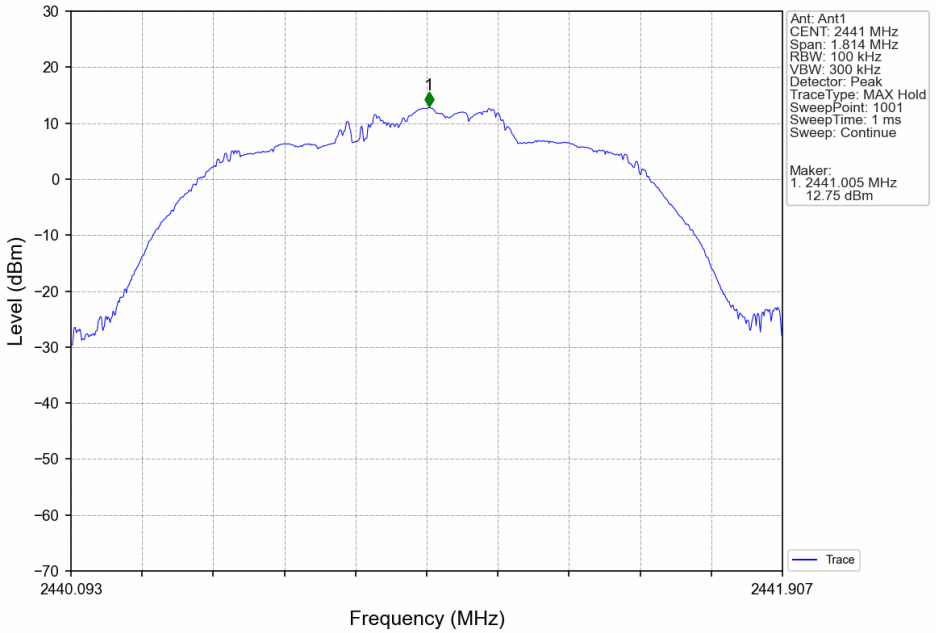
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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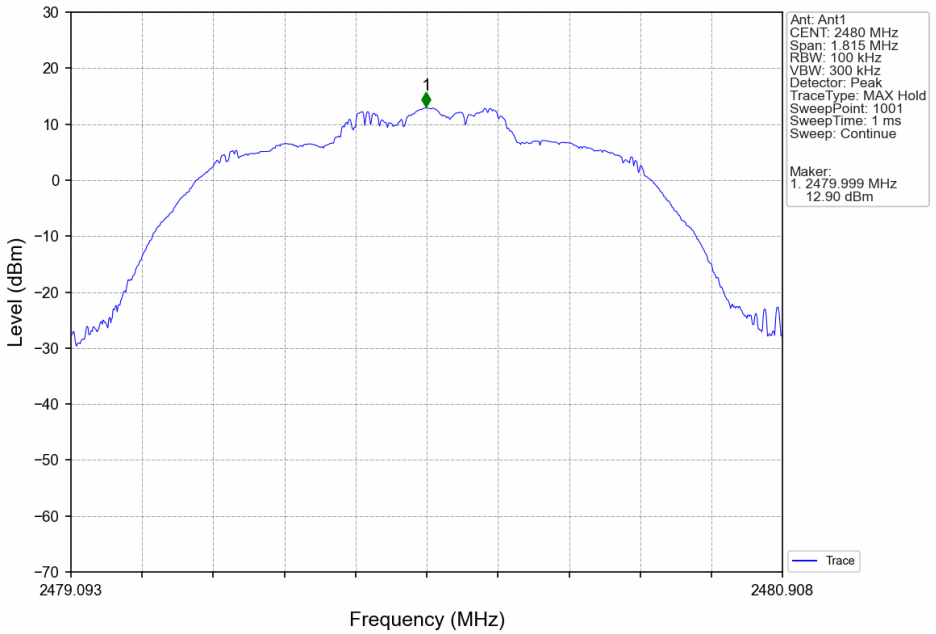

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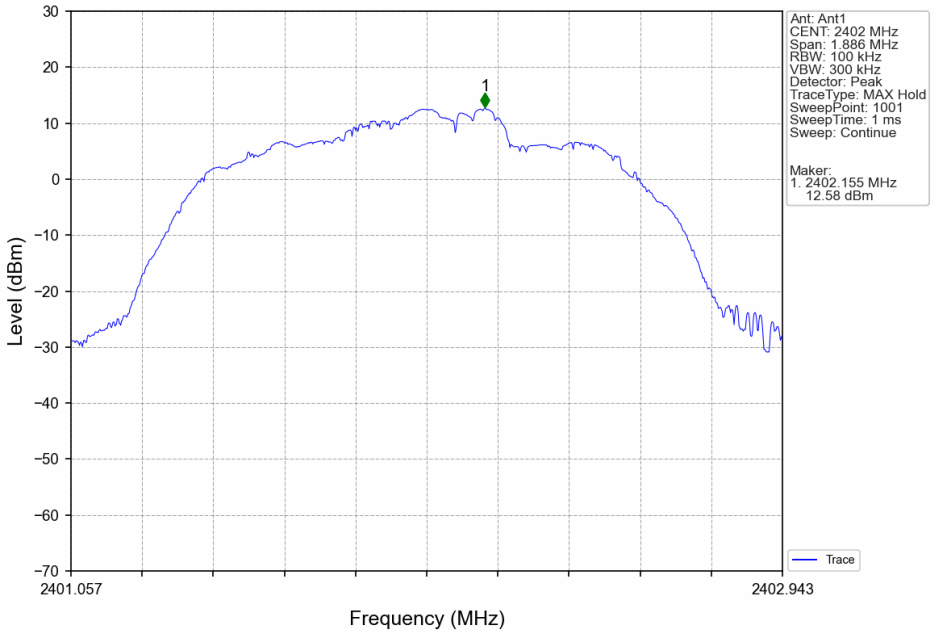
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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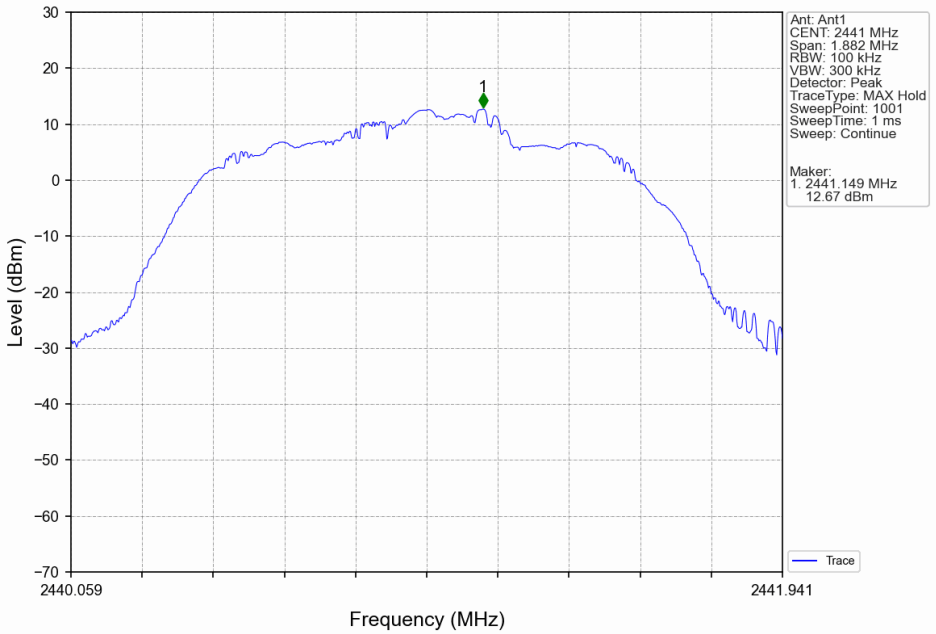

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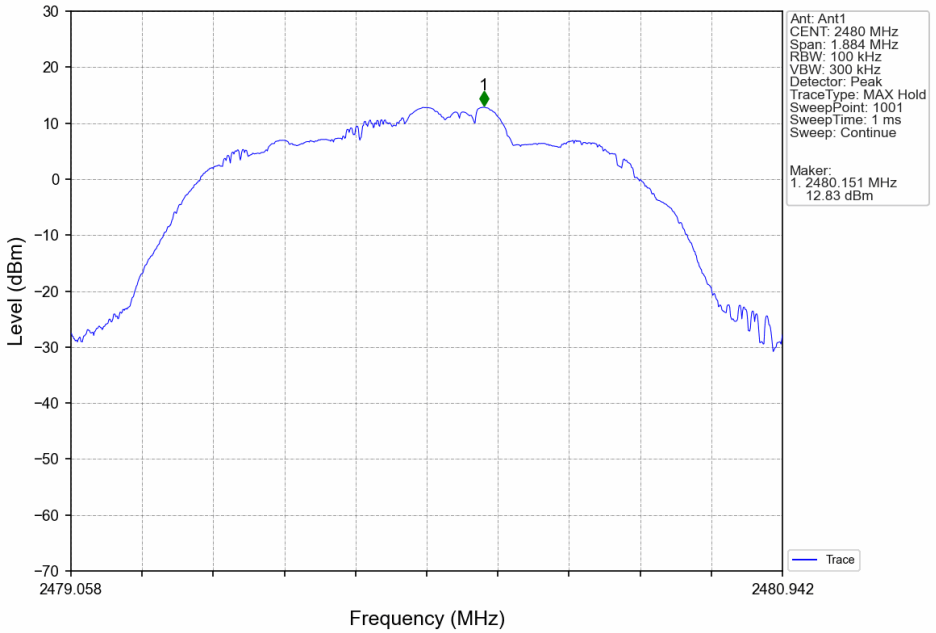
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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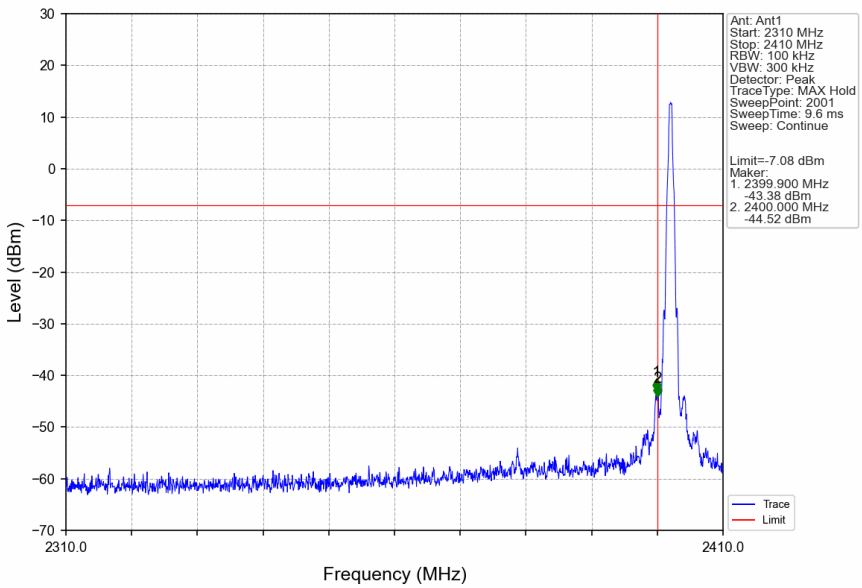
6.2.2 CSE

GFSK_DH5_LCH_2402MHz_Ant1_NTNV



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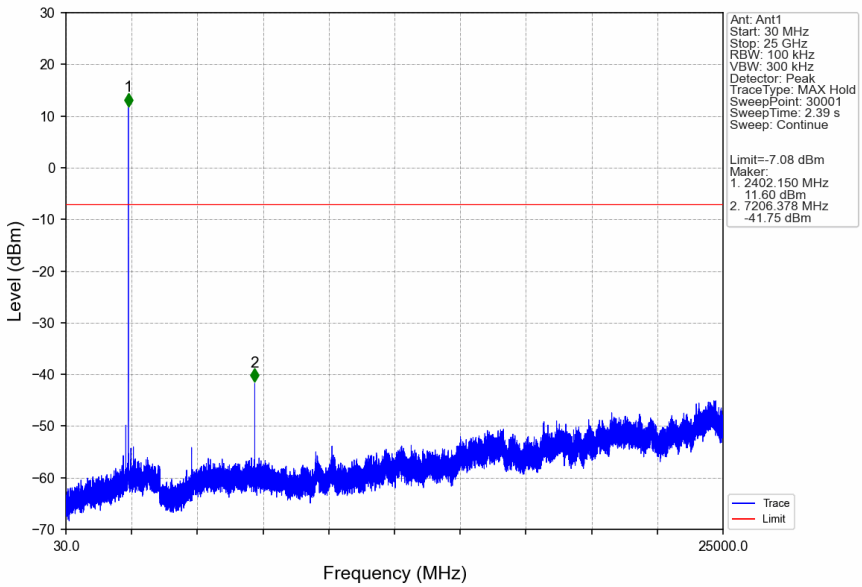

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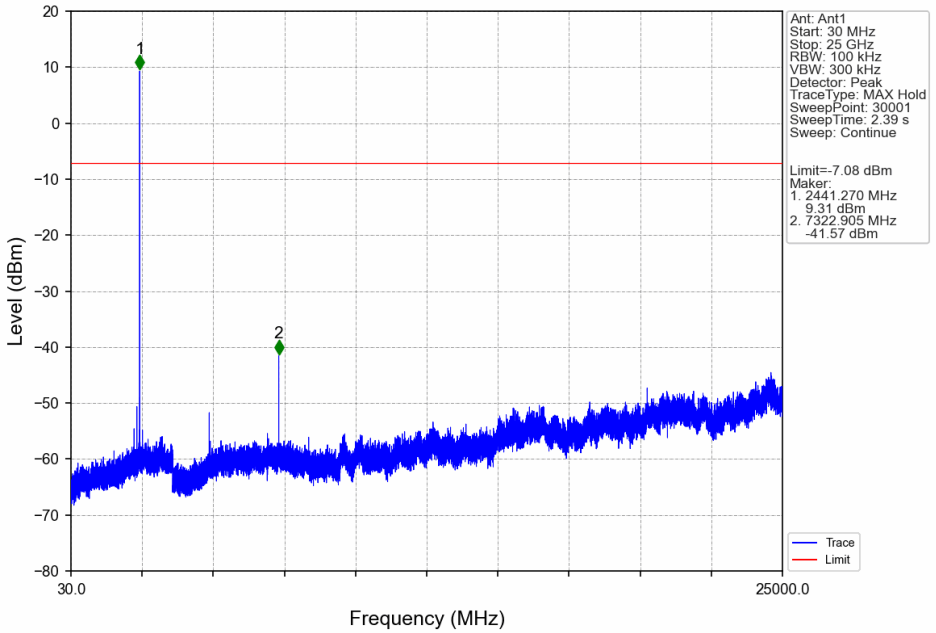
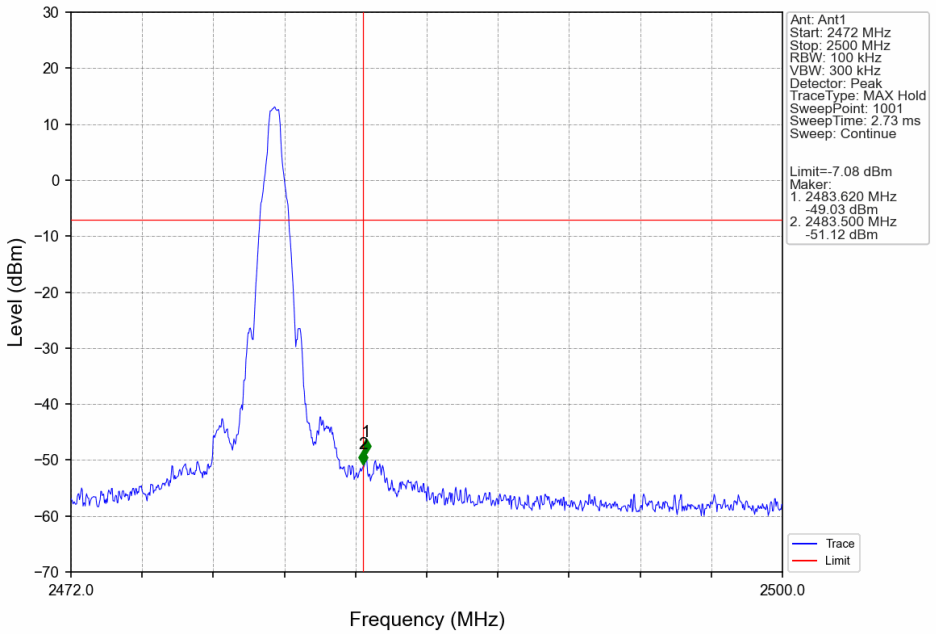
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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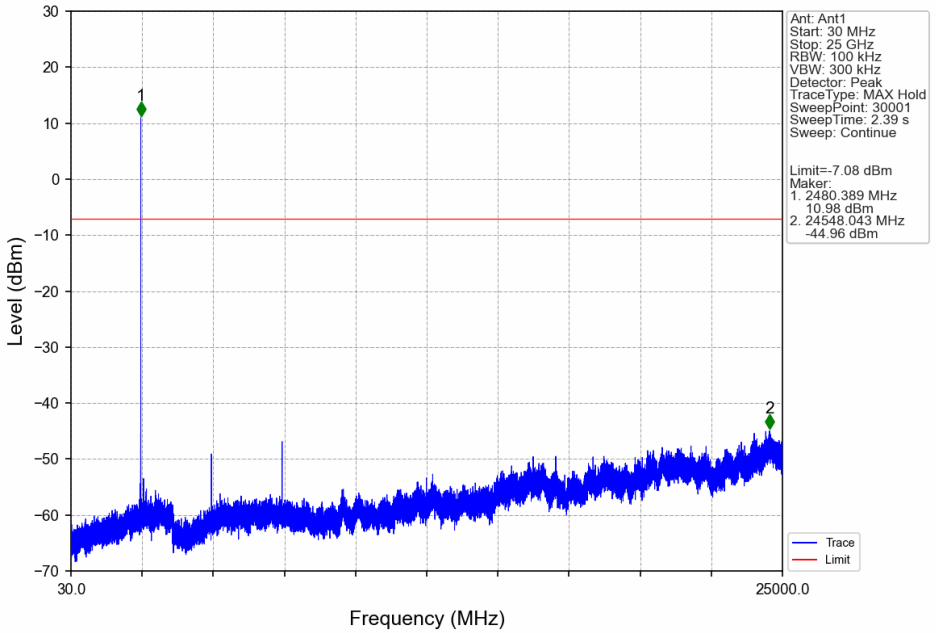
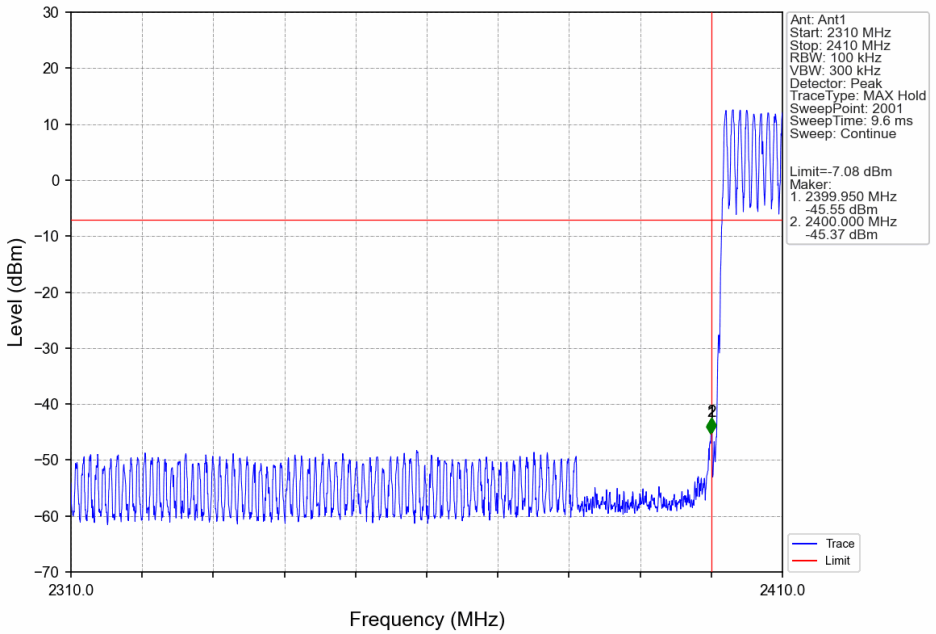
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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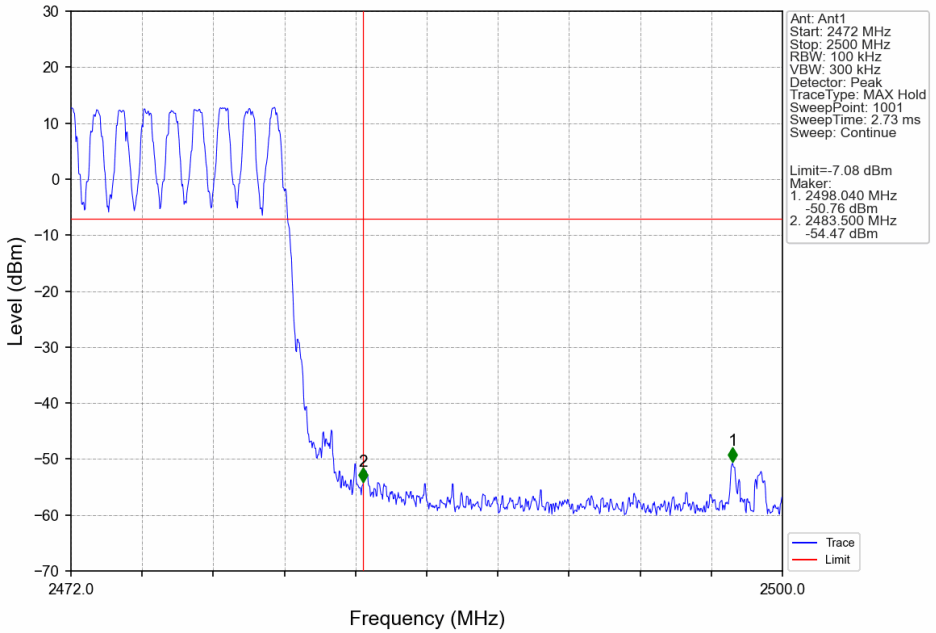
GFSK_DH5_HOPP_Ant1_NTNV



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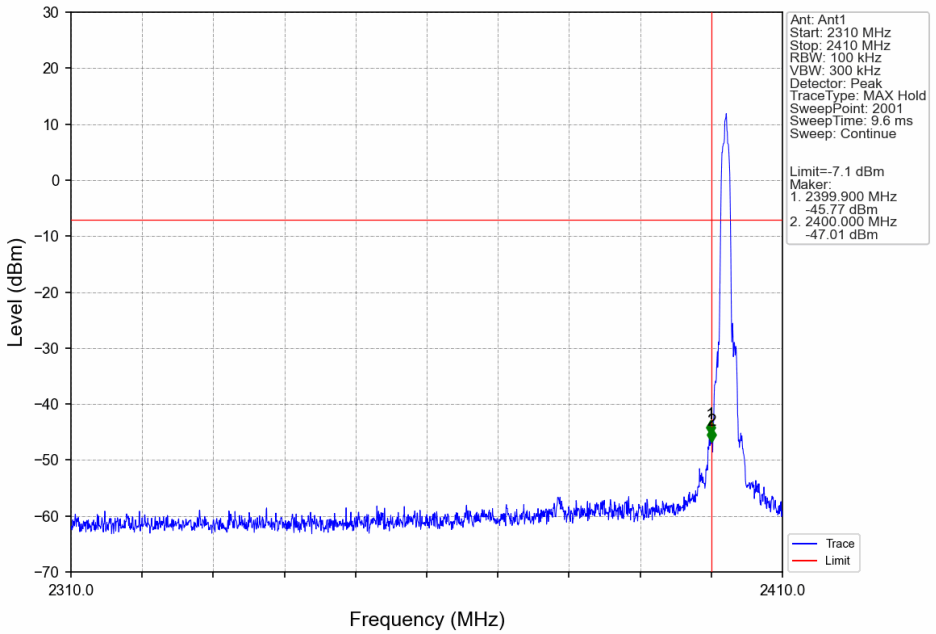

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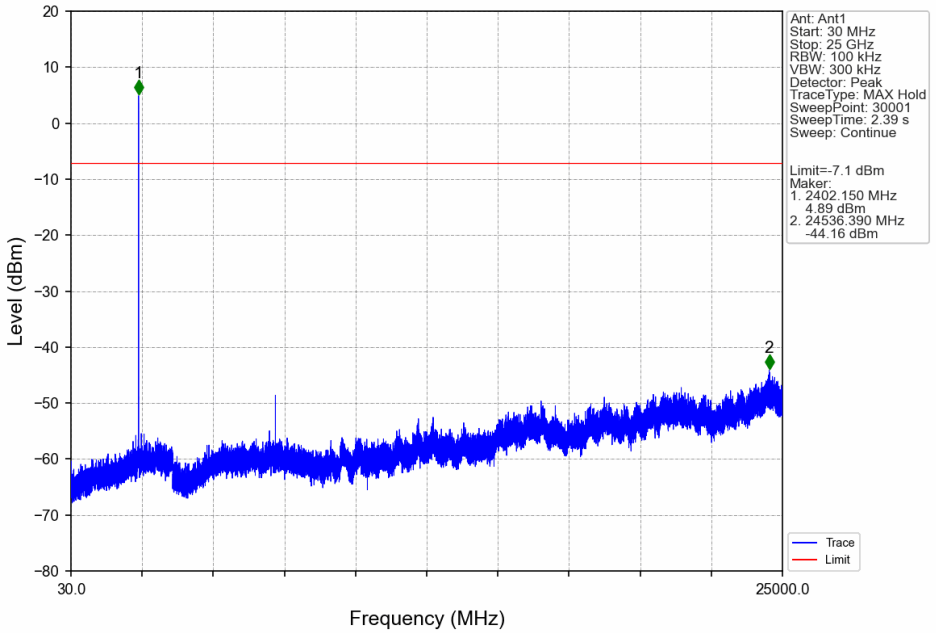
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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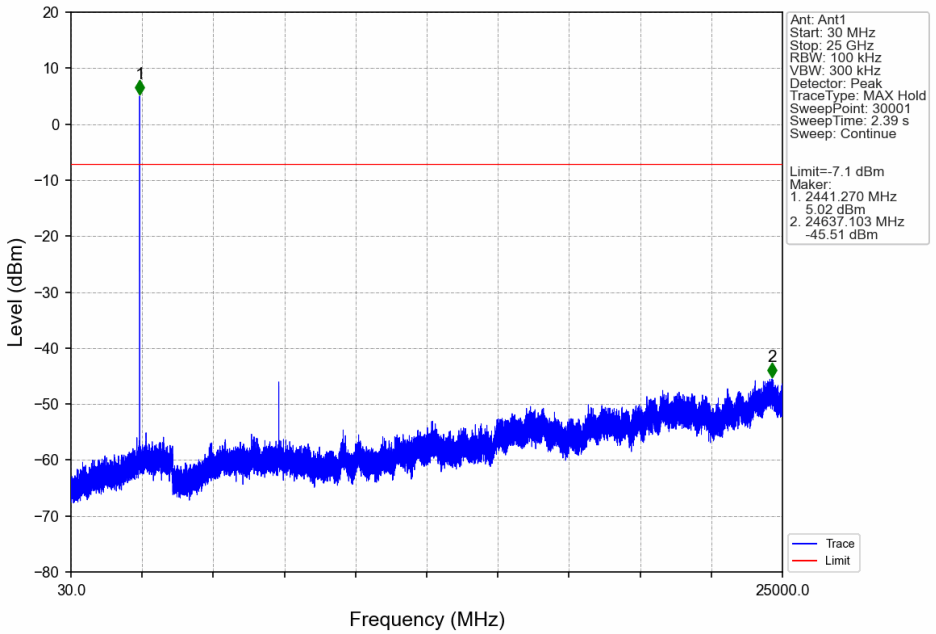

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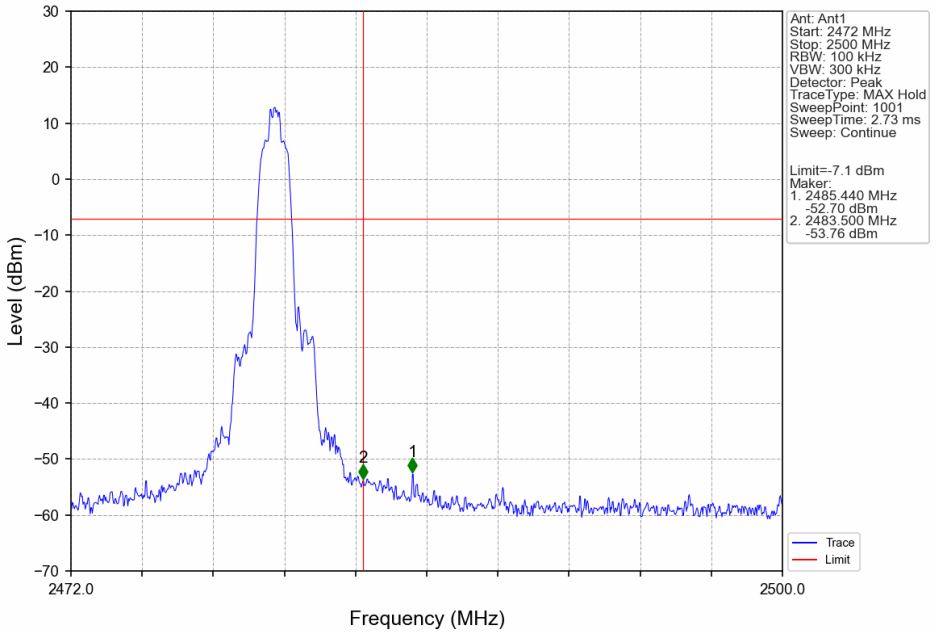
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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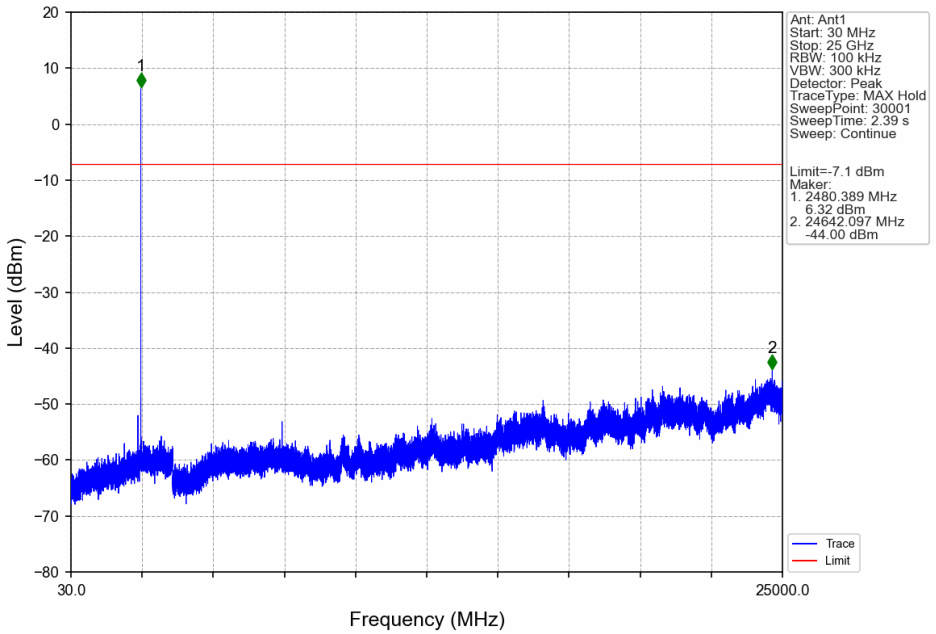

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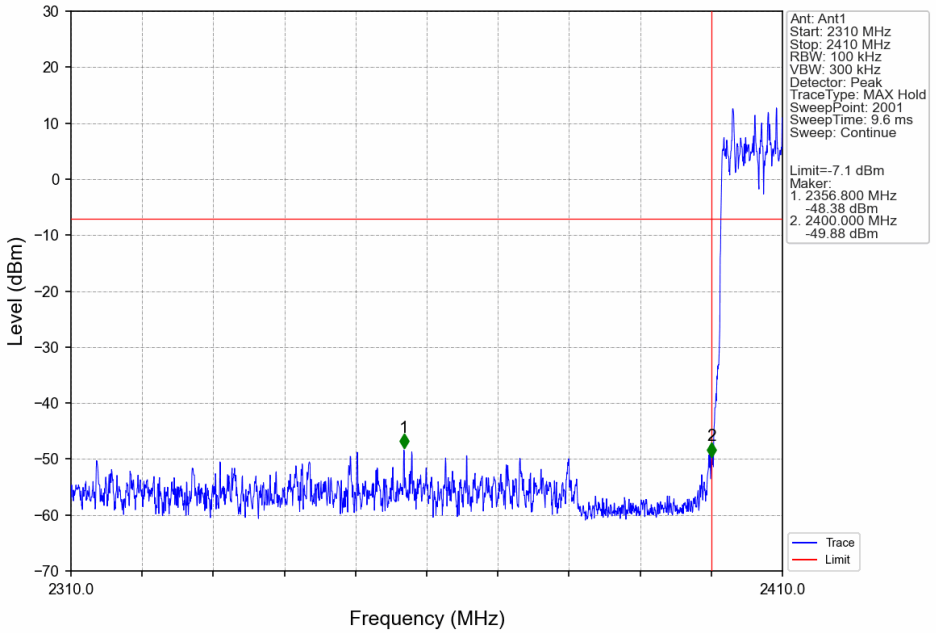
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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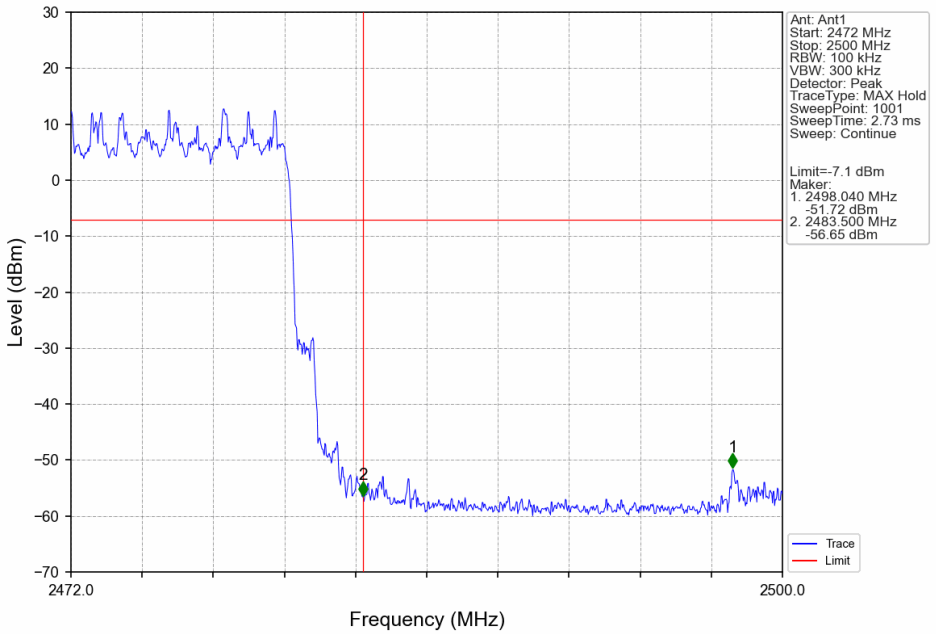

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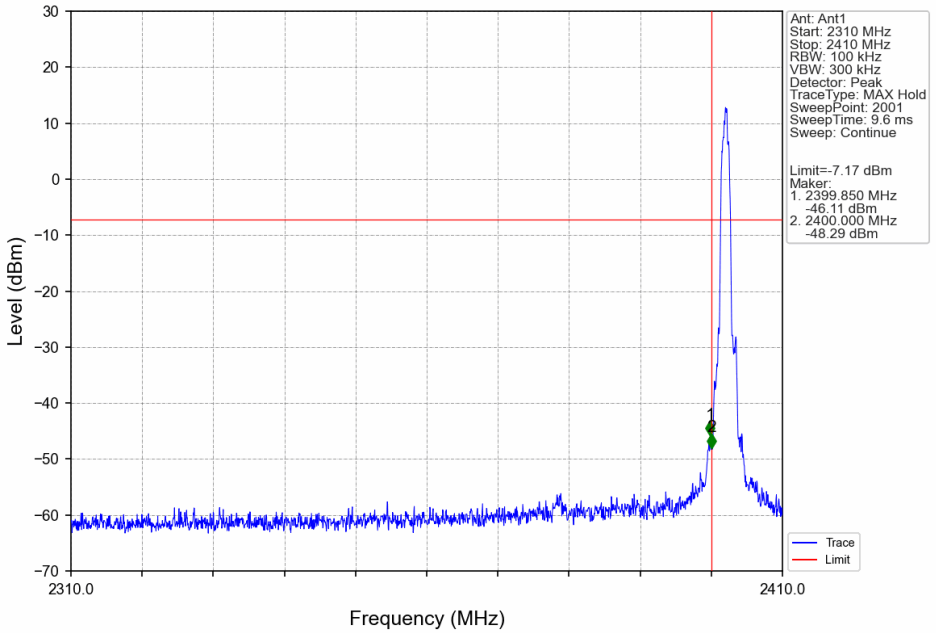
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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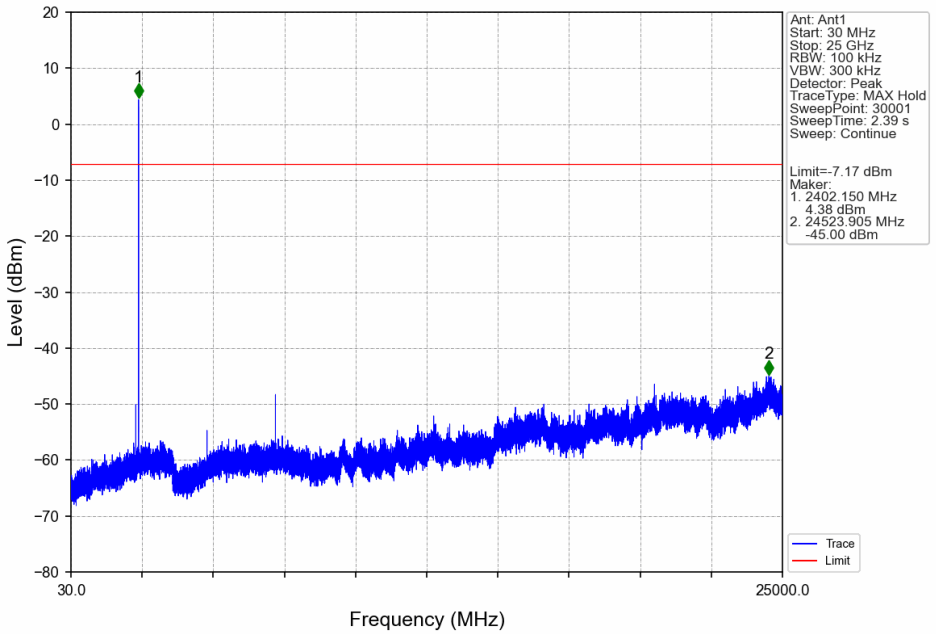

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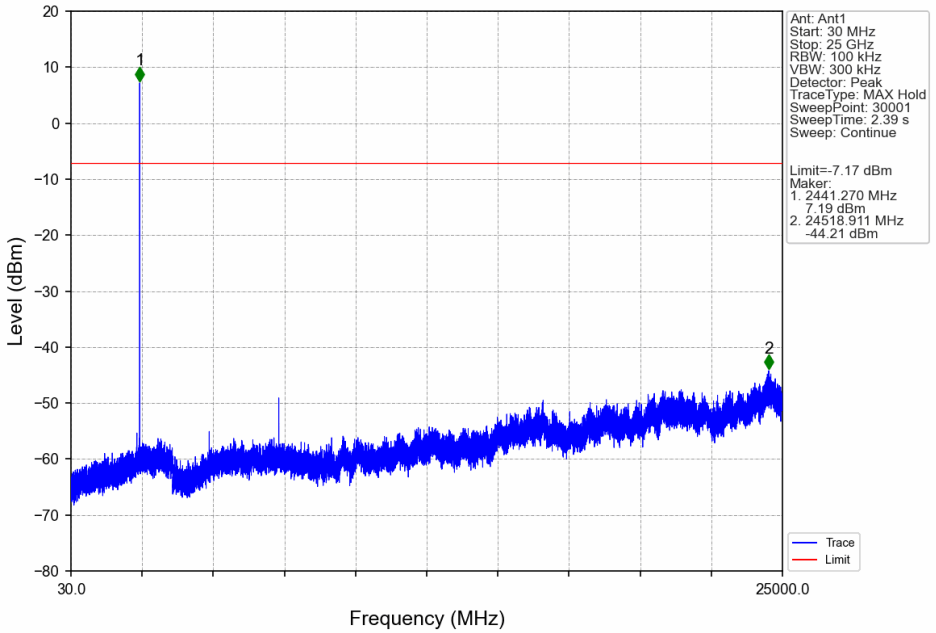
8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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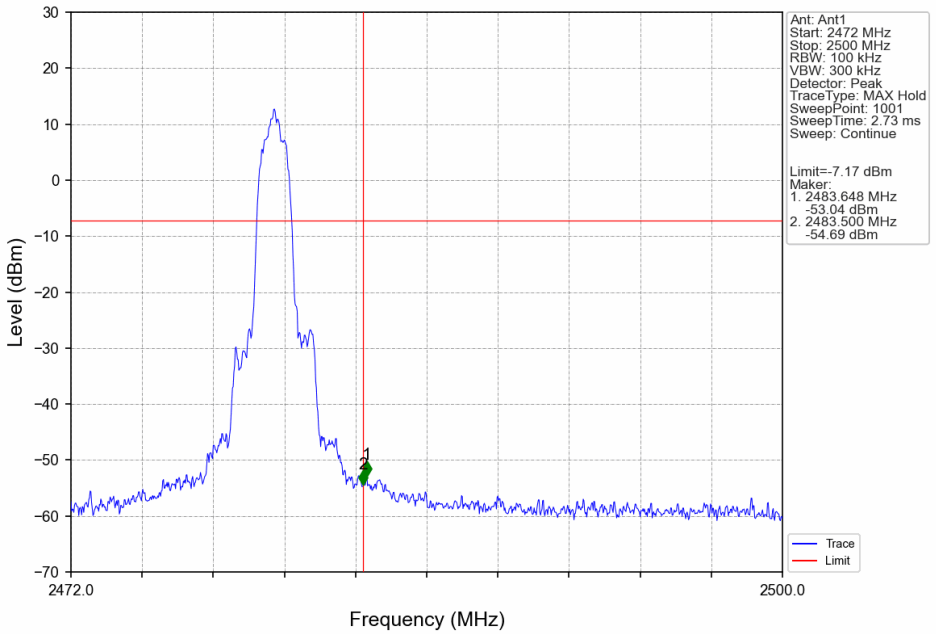

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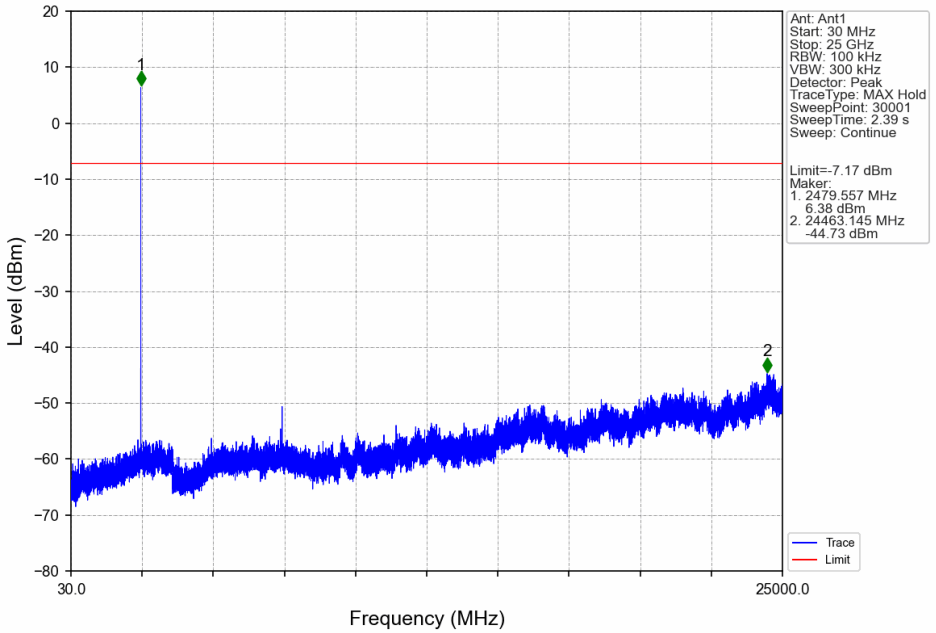
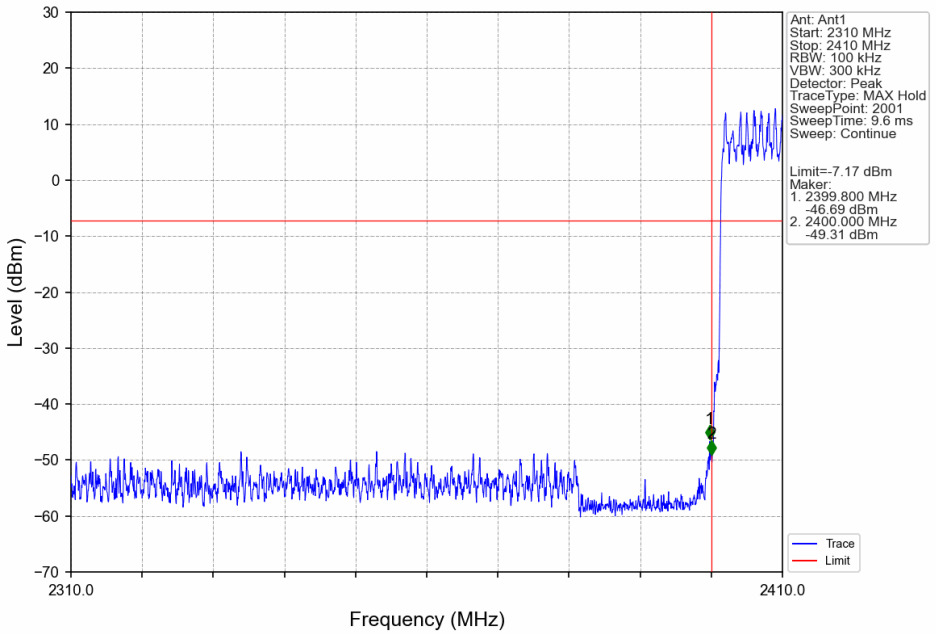
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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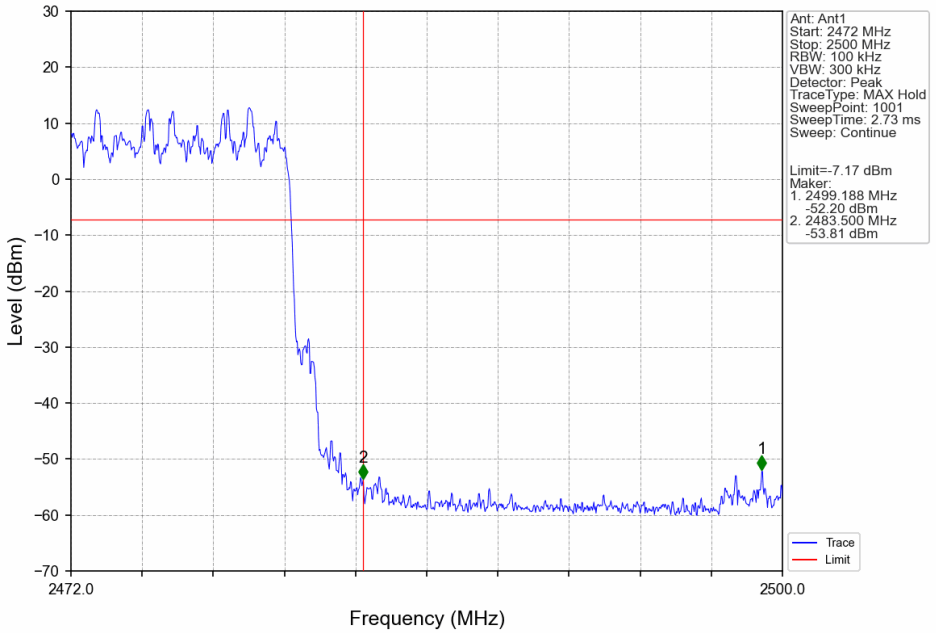

- End of the Report -

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