

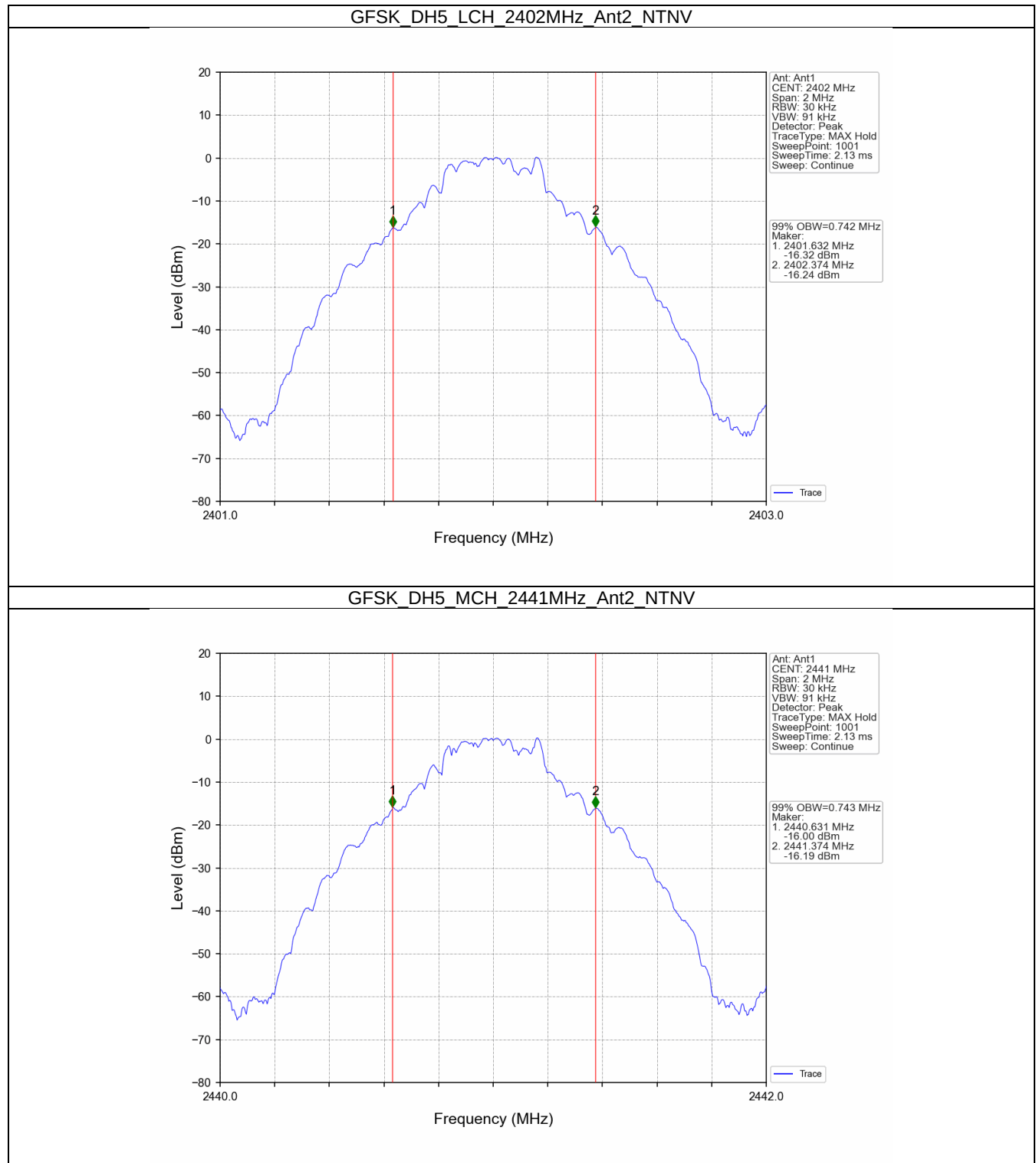
1. Bandwidth

1.1 OBW

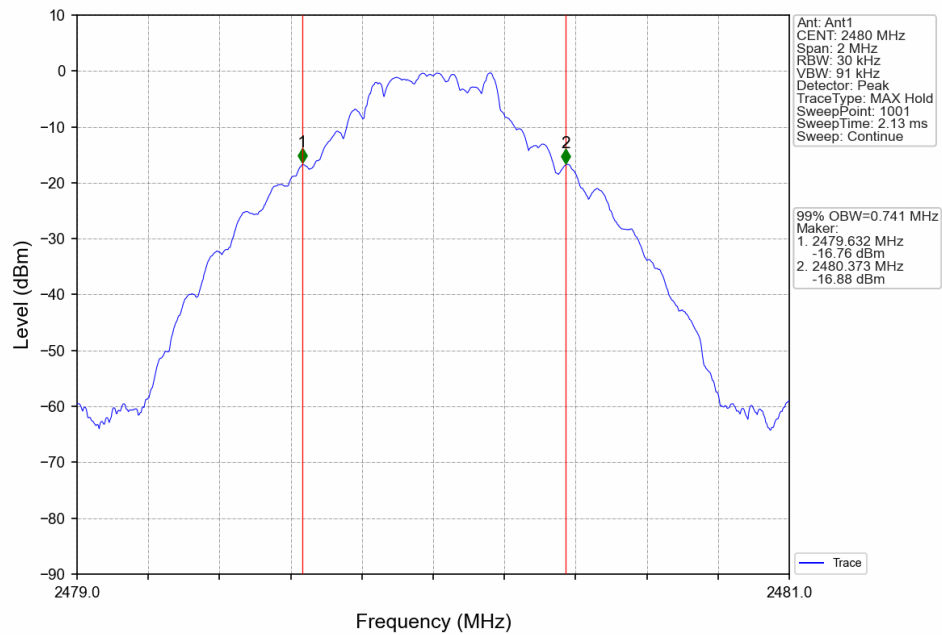
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	2	0.742	Pass
		2441	DH5	2	0.743	Pass
		2480	DH5	2	0.741	Pass
Pi/4DQPSK	SISO	2402	2DH5	2	1.138	Pass
		2441	2DH5	2	1.138	Pass
		2480	2DH5	2	1.137	Pass
8DPSK	SISO	2402	3DH5	2	1.150	Pass
		2441	3DH5	2	1.147	Pass
		2480	3DH5	2	1.150	Pass

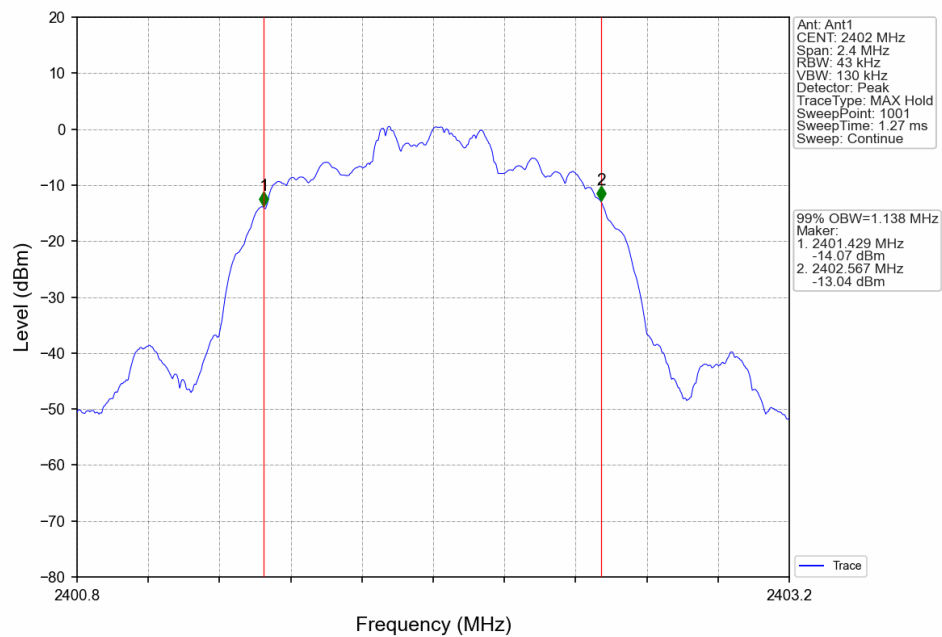
1.1.2 Test Graph



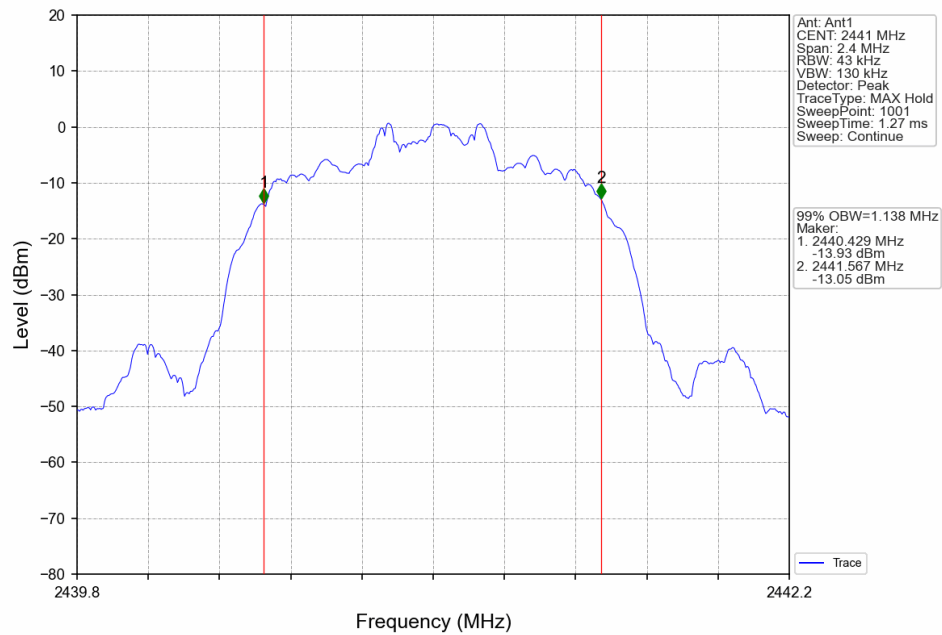
GFSK DH5 HCH 2480MHz Ant2 NTN



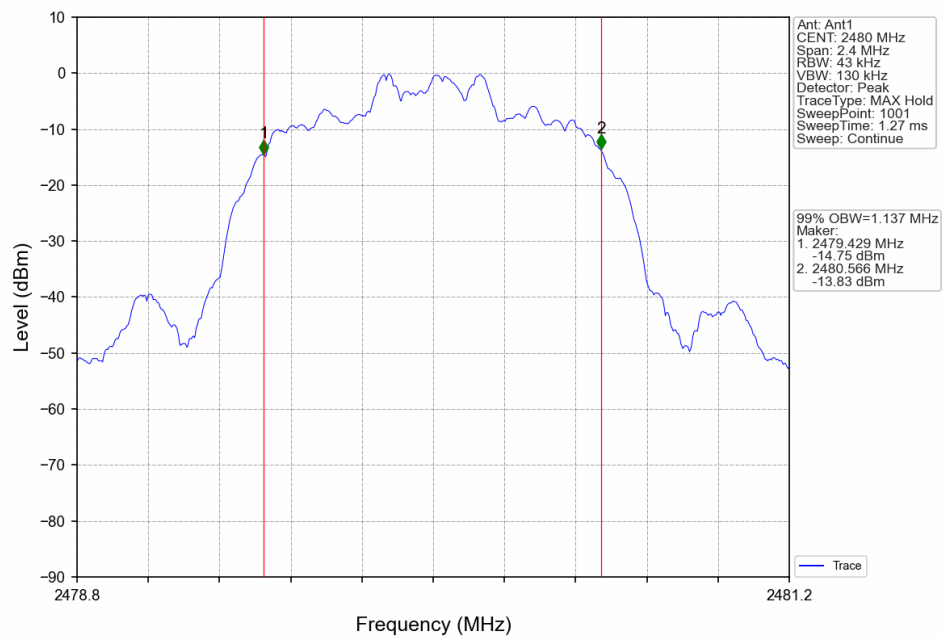
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant2 NTN



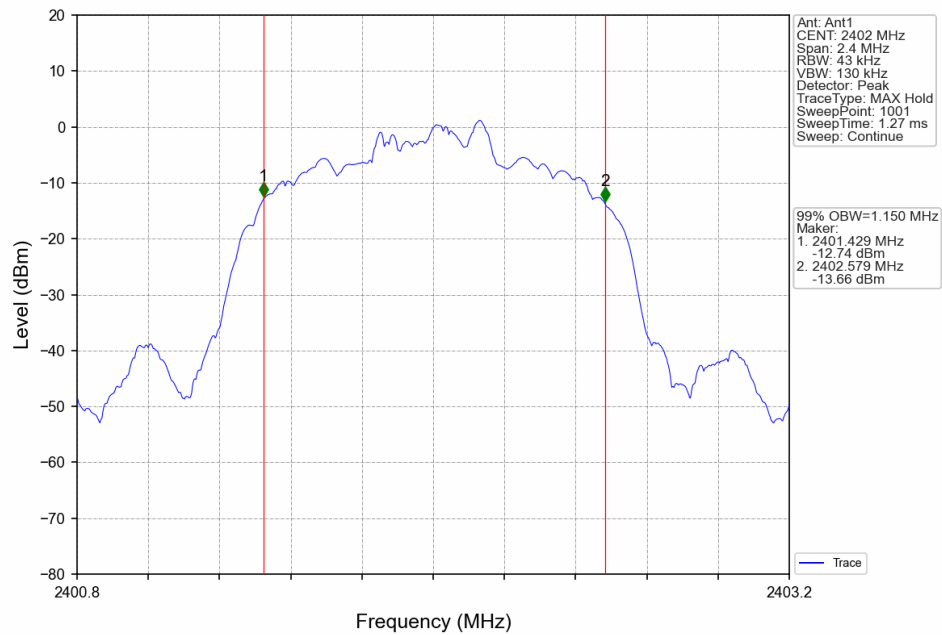
Pi/4DQPSK 2DH5 MCH 2441MHz Ant2 NTN



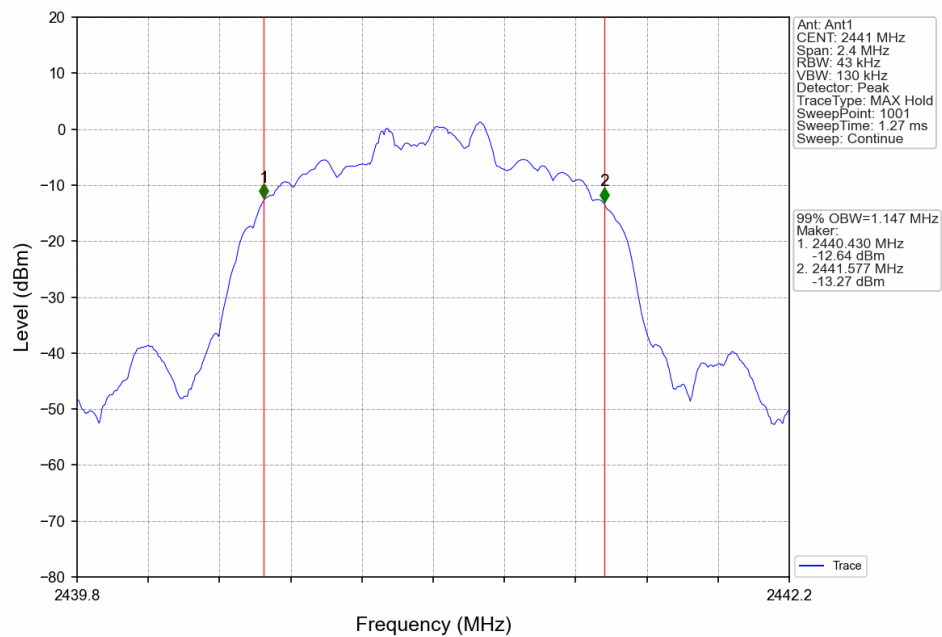
Pi/4DQPSK 2DH5 HCH 2480MHz Ant2 NTN



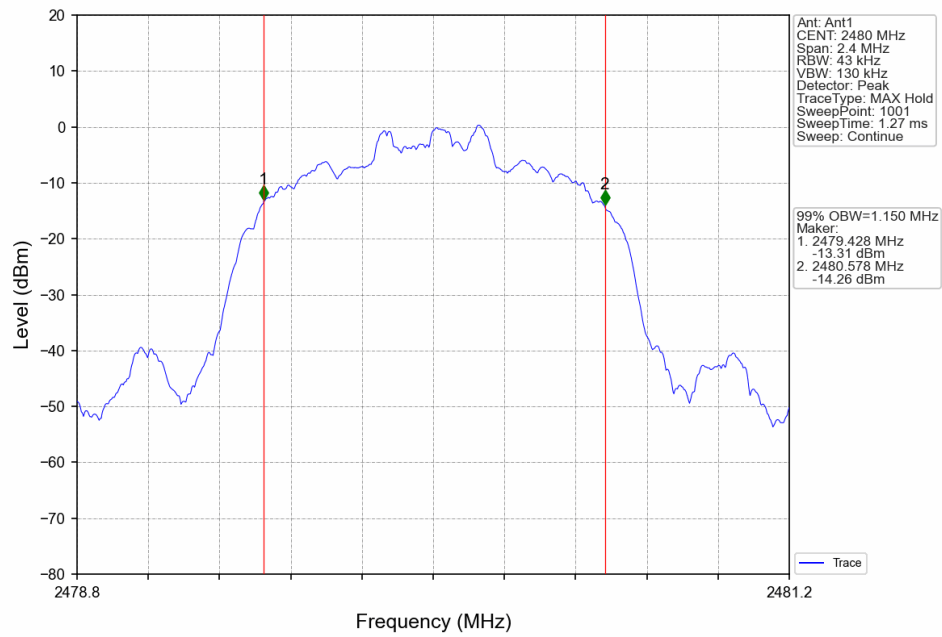
8DPSK 3DH5 LCH 2402MHz Ant2 NTN



8DPSK 3DH5 MCH 2441MHz Ant2 NTN



8DPSK 3DH5 HCH 2480MHz Ant2 NTN

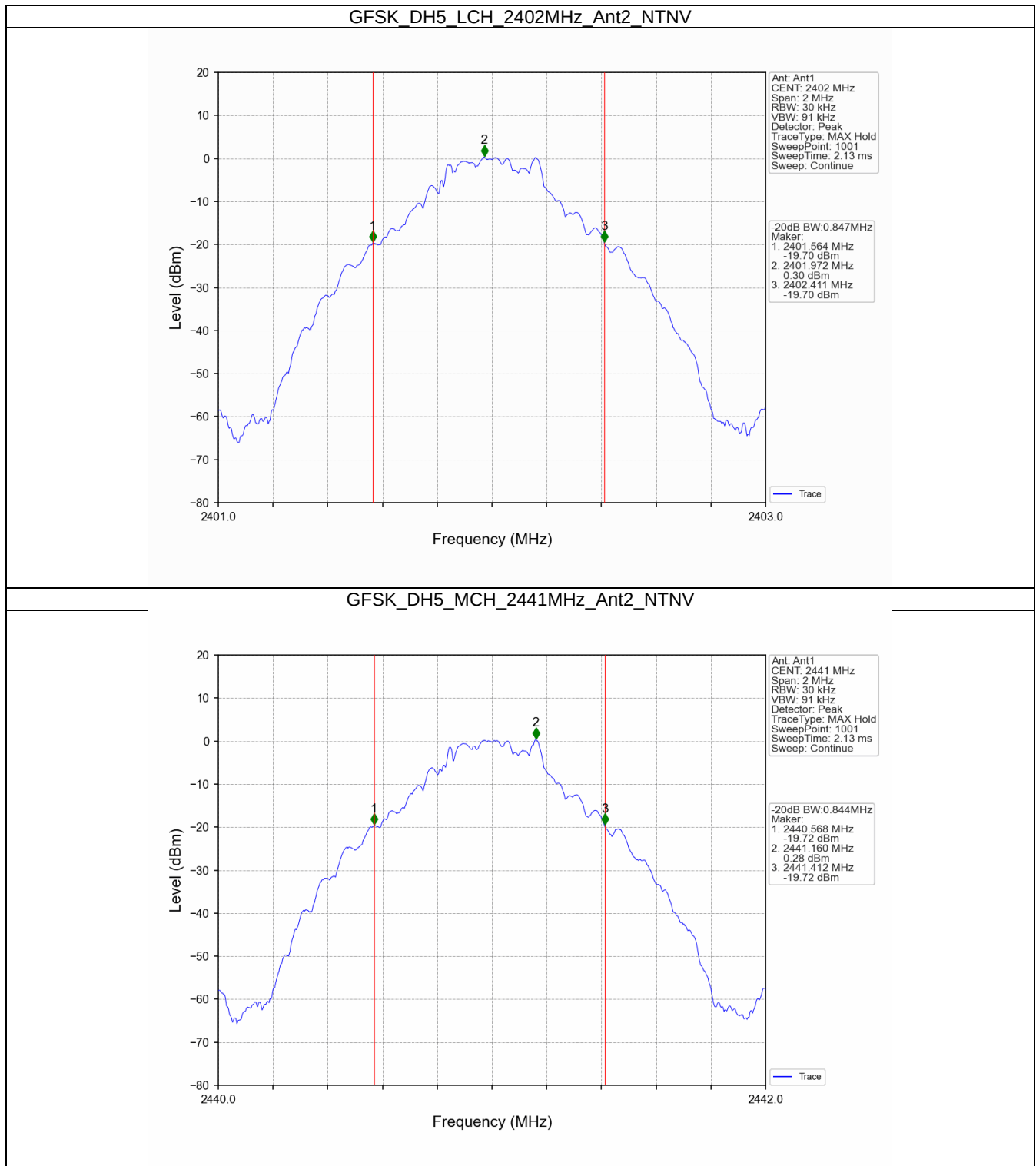


1.2 20dB BW

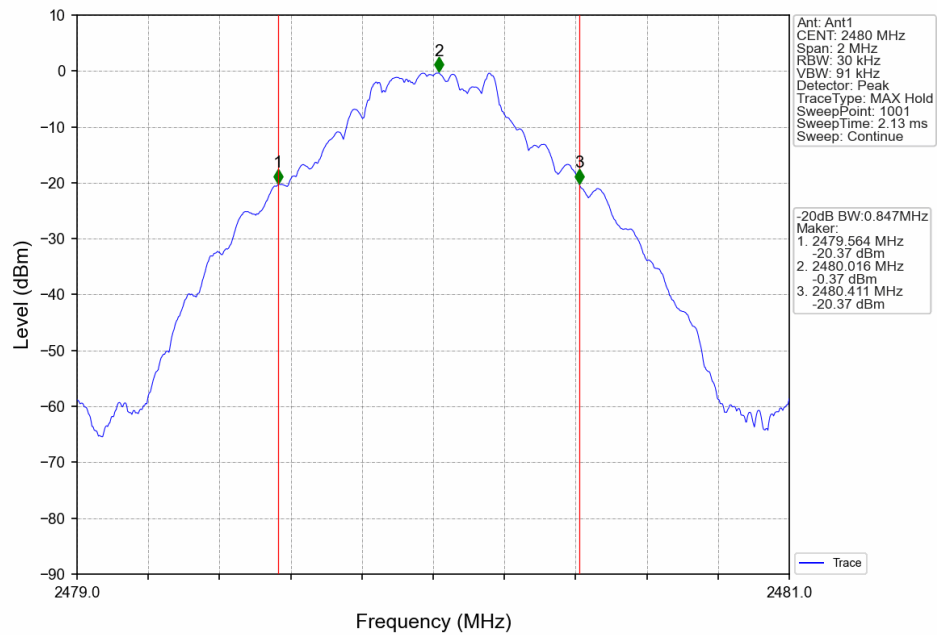
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	2	0.847	Pass
		2441	DH5	2	0.844	Pass
		2480	DH5	2	0.847	Pass
Pi/4DQPSK	SISO	2402	2DH5	2	1.276	Pass
		2441	2DH5	2	1.275	Pass
		2480	2DH5	2	1.274	Pass
8DPSK	SISO	2402	3DH5	2	1.289	Pass
		2441	3DH5	2	1.287	Pass
		2480	3DH5	2	1.287	Pass

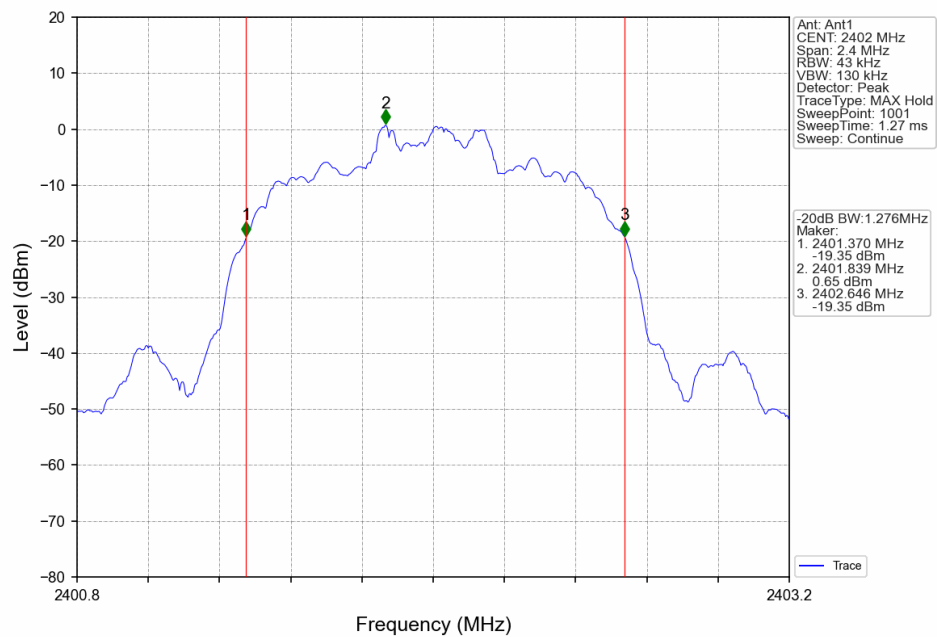
1.2.2 Test Graph



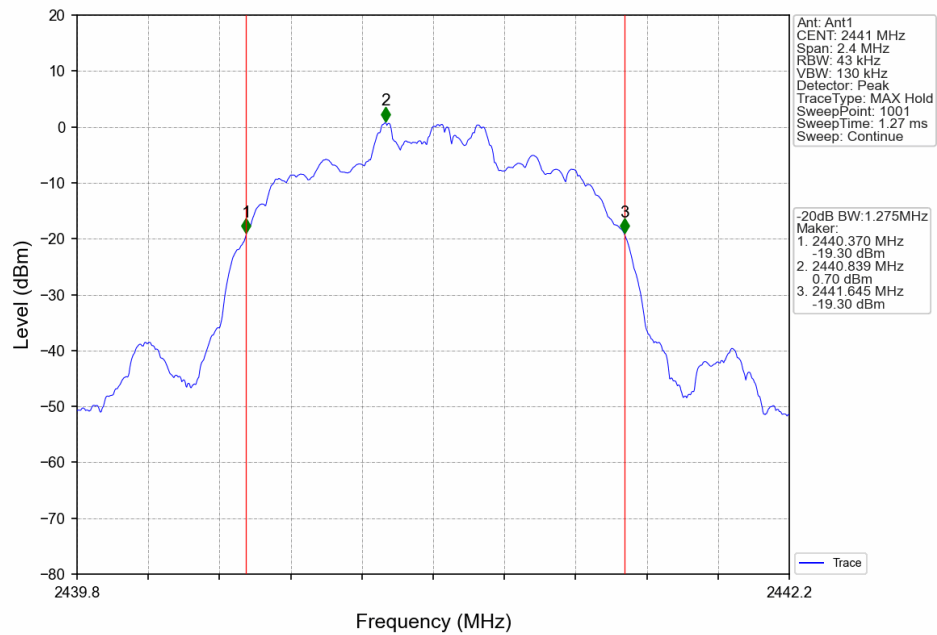
GFSK DH5 HCH 2480MHz Ant2 NTN



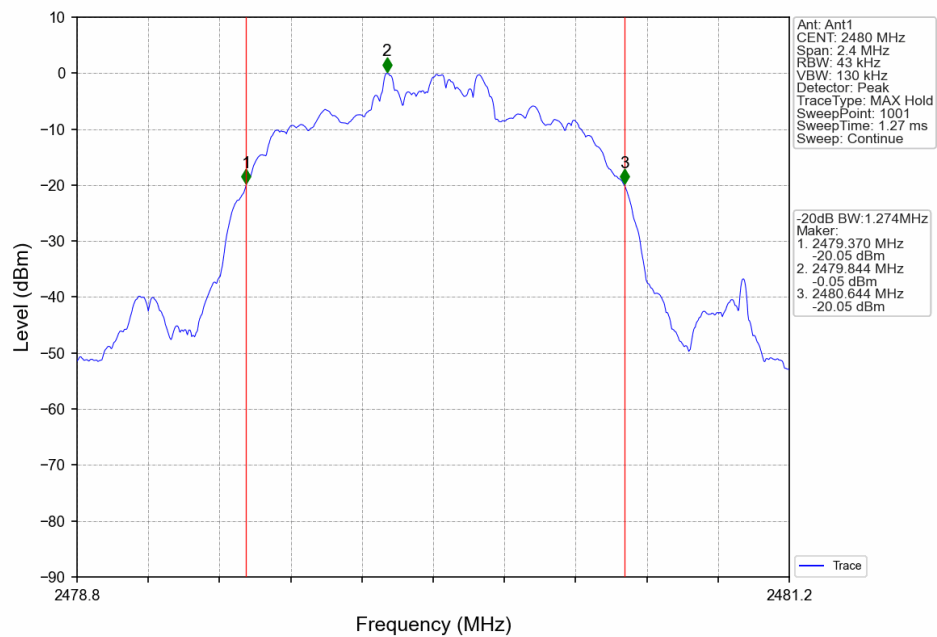
Pi/4DQPSK 2DH5 LCH 2402MHz Ant2 NTN



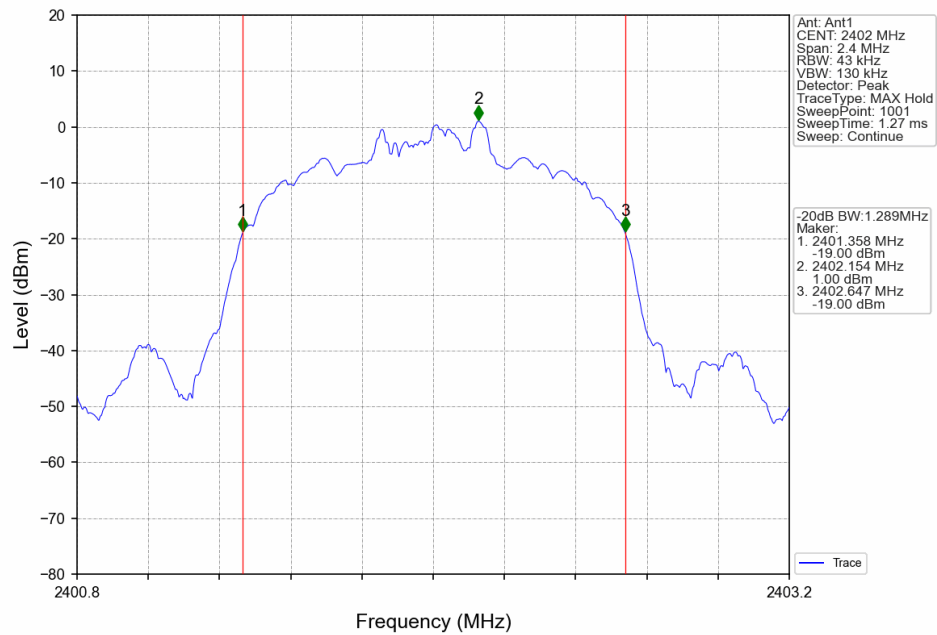
Pi/4DQPSK 2DH5 MCH 2441MHz Ant2 NTN



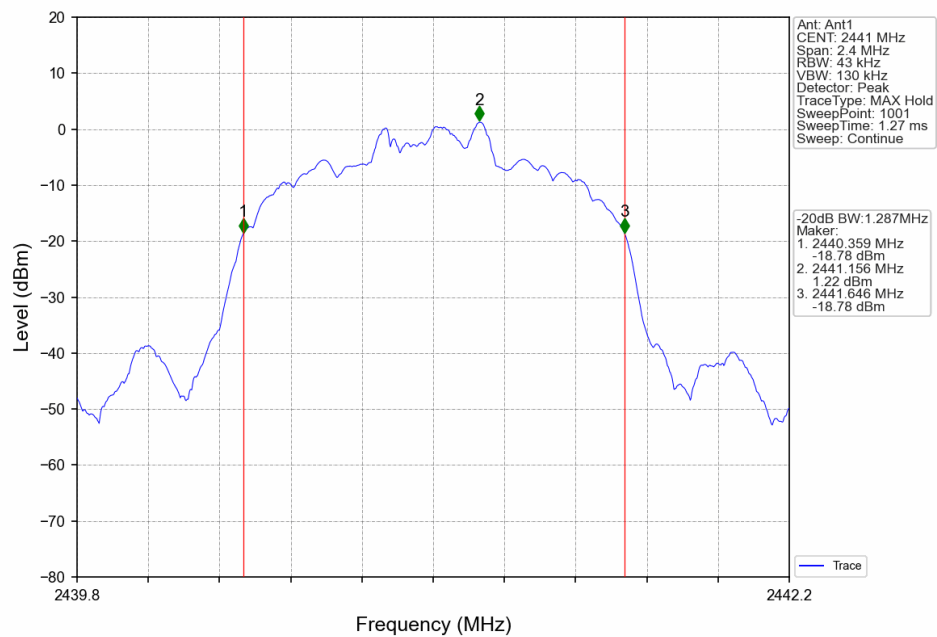
Pi/4DQPSK 2DH5 HCH 2480MHz Ant2 NTN



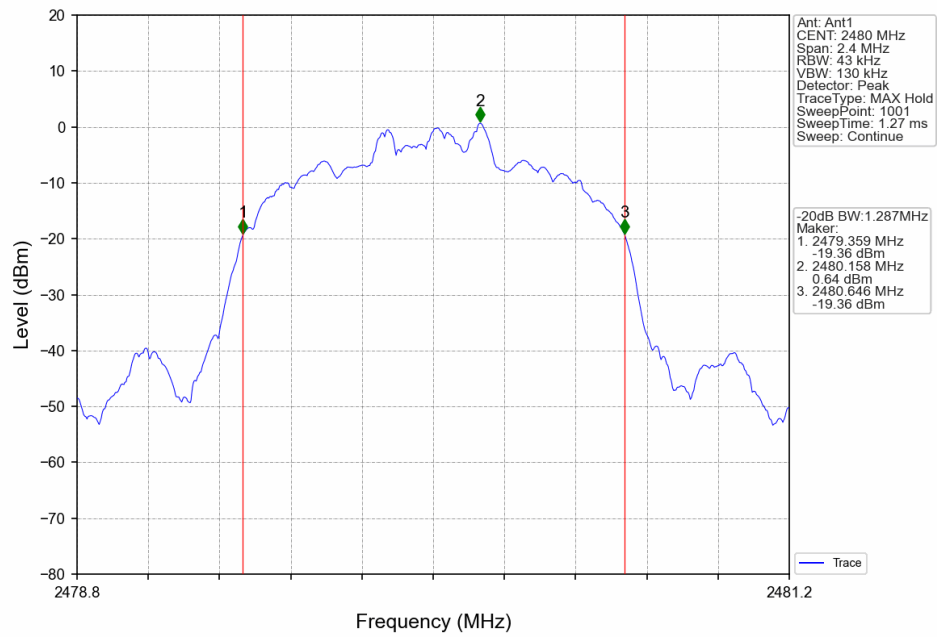
8DPSK_3DH5_LCH_2402MHz_Ant2_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant2_NTNV



8DPSK 3DH5 HCH 2480MHz Ant2 NTN



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
				ANT2	Limit	
GFSK	SISO	2402	DH5	2.87	<=30	Pass
		2441	DH5	2.94	<=30	Pass
		2480	DH5	2.21	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.85	<=20.97	Pass
		2441	2DH5	2.92	<=20.97	Pass
		2480	2DH5	2.12	<=20.97	Pass
8DPSK	SISO	2402	3DH5	2.75	<=20.97	Pass
		2441	3DH5	2.83	<=20.97	Pass
		2480	3DH5	2.24	<=20.97	Pass

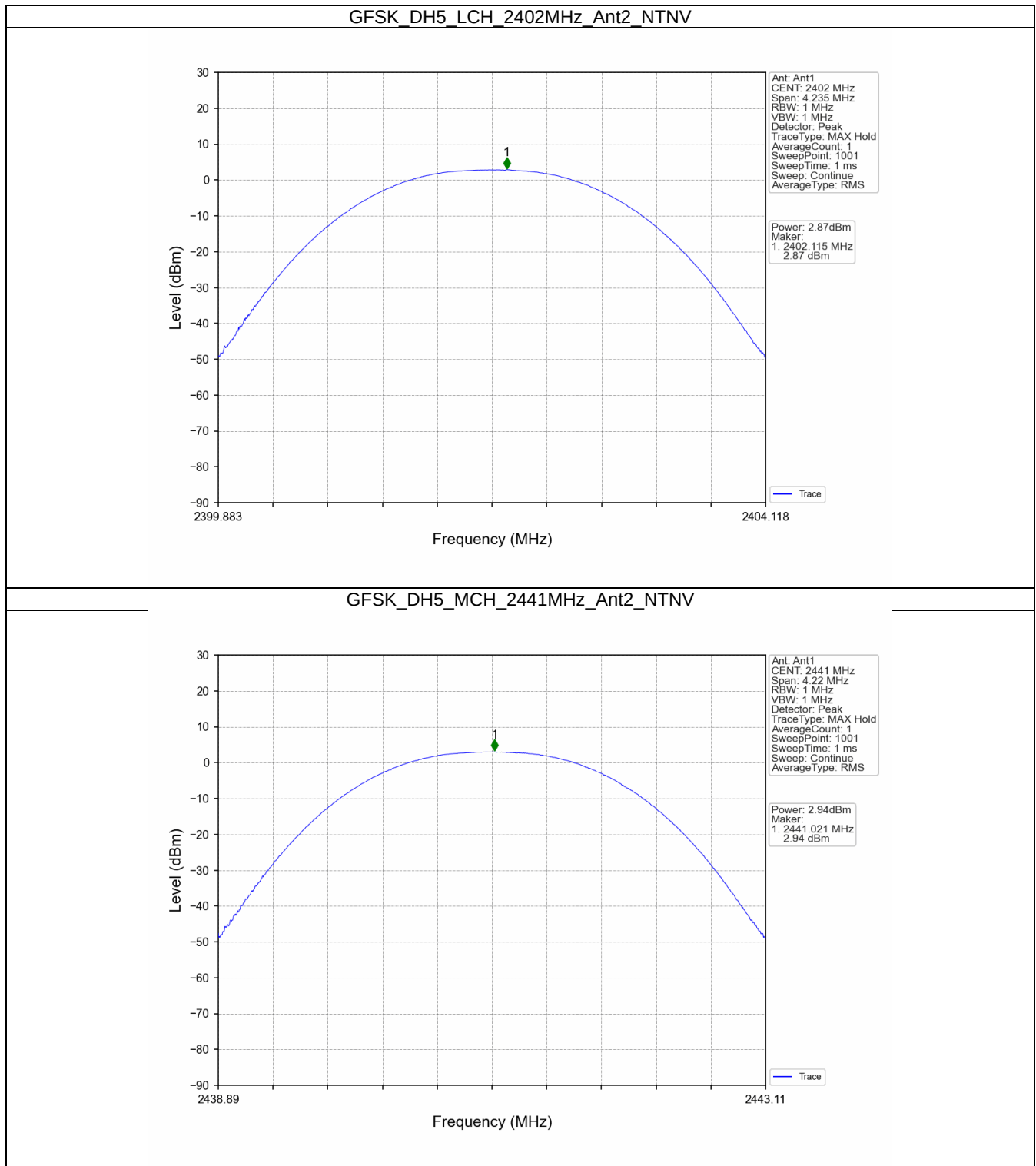
Note1: Antenna Gain: Ant2: 3.80dBi;

EIRP

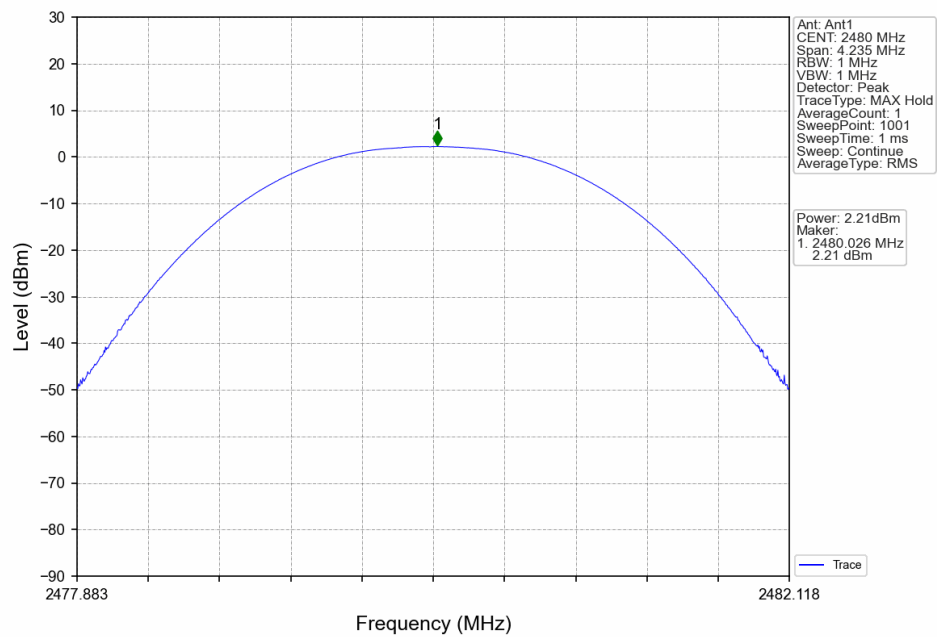
Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)	EIRP	Limit	Verdict
				ANT2	ANT2		
GFSK	SISO	2402	DH5	2.87	6.67	N/A	Pass
		2441	DH5	2.94	6.74	N/A	Pass
		2480	DH5	2.21	6.01	N/A	Pass
Pi/4DQPSK	SISO	2402	2DH5	2.85	6.65	N/A	Pass
		2441	2DH5	2.92	6.72	N/A	Pass
		2480	2DH5	2.12	5.92	N/A	Pass
8DPSK	SISO	2402	3DH5	2.75	6.55	N/A	Pass
		2441	3DH5	2.83	6.63	N/A	Pass
		2480	3DH5	2.24	6.04	N/A	Pass

Note1: Antenna Gain: Ant2: 3.80dBi;
Note2: EIRP=Conducted Output Power + Antenna Gain

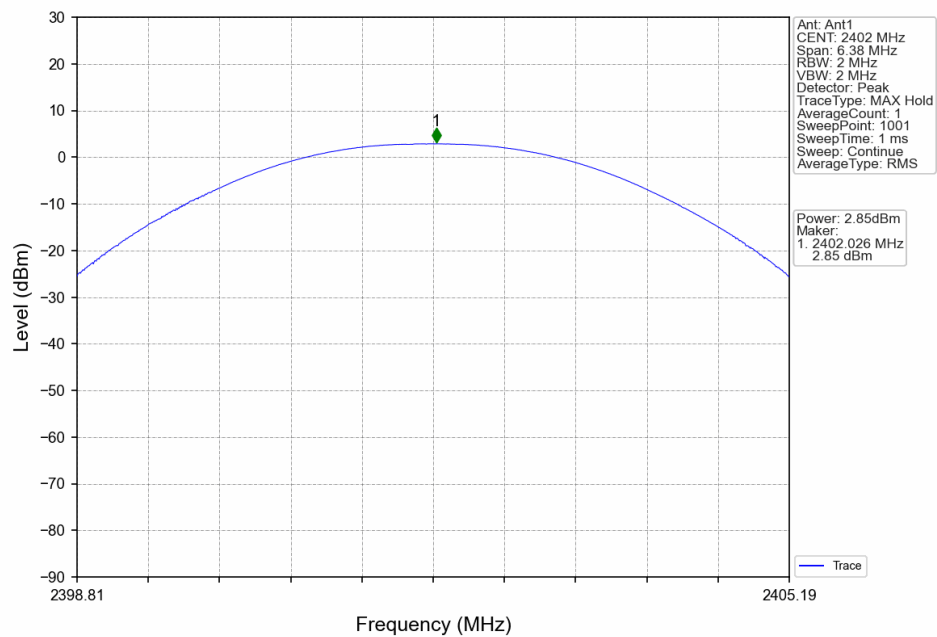
2.1.2 Test Graph



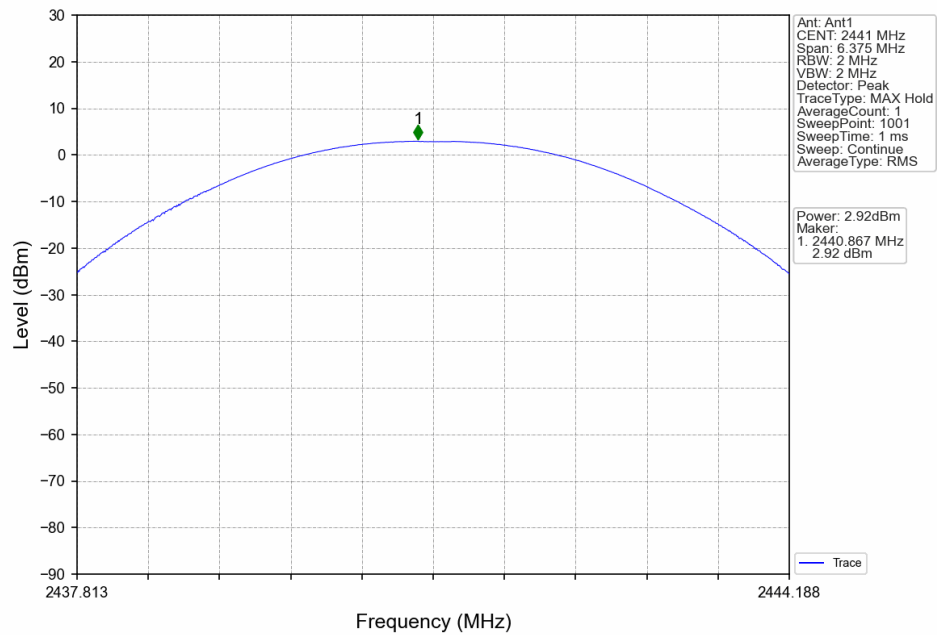
GFSK DH5 HCH 2480MHz Ant2 NTN



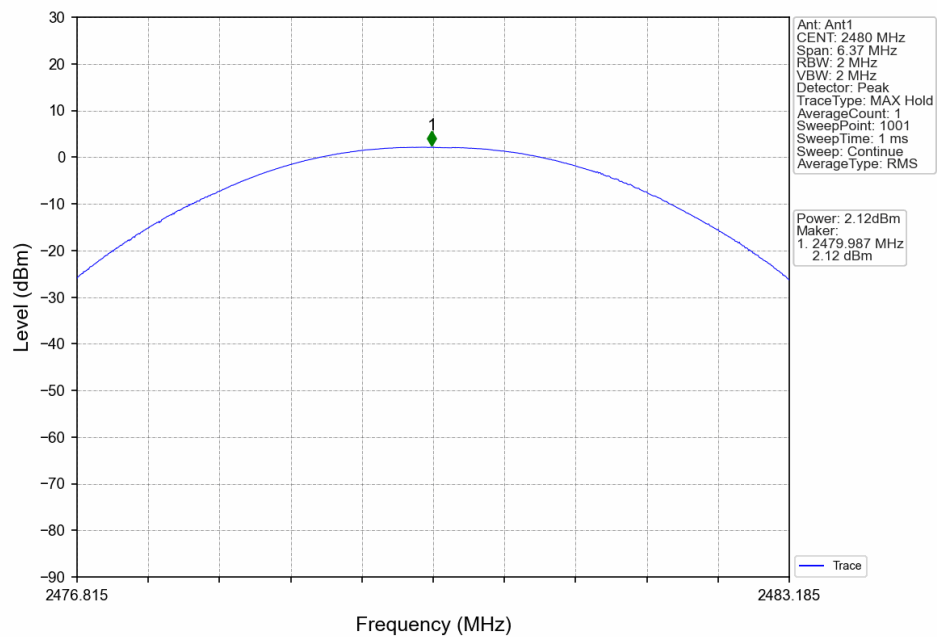
Pi/4DQPSK 2DH5 LCH 2402MHz Ant2 NTN



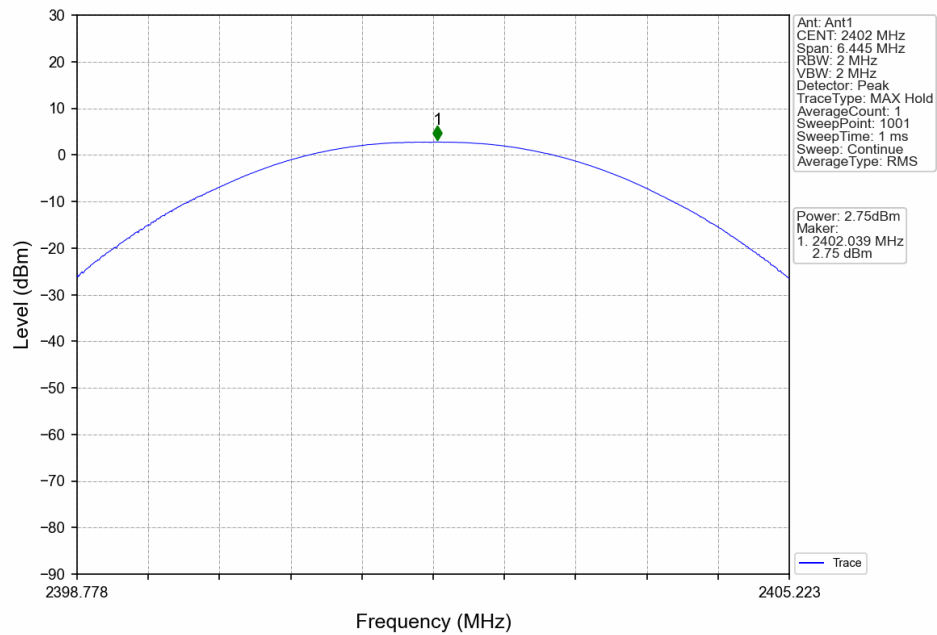
Pi/4DQPSK 2DH5 MCH 2441MHz Ant2 NTN



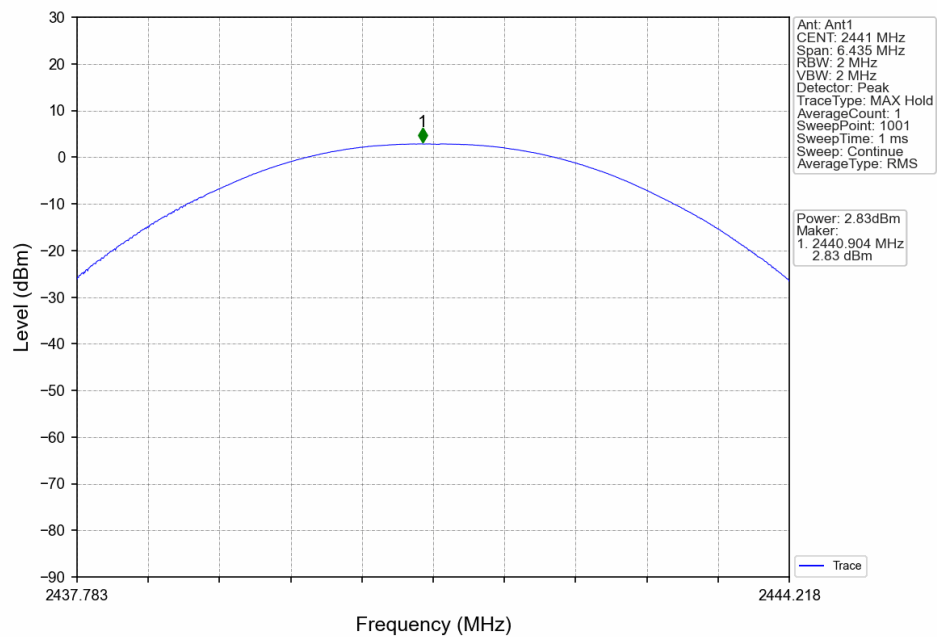
Pi/4DQPSK 2DH5 HCH 2480MHz Ant2 NTN



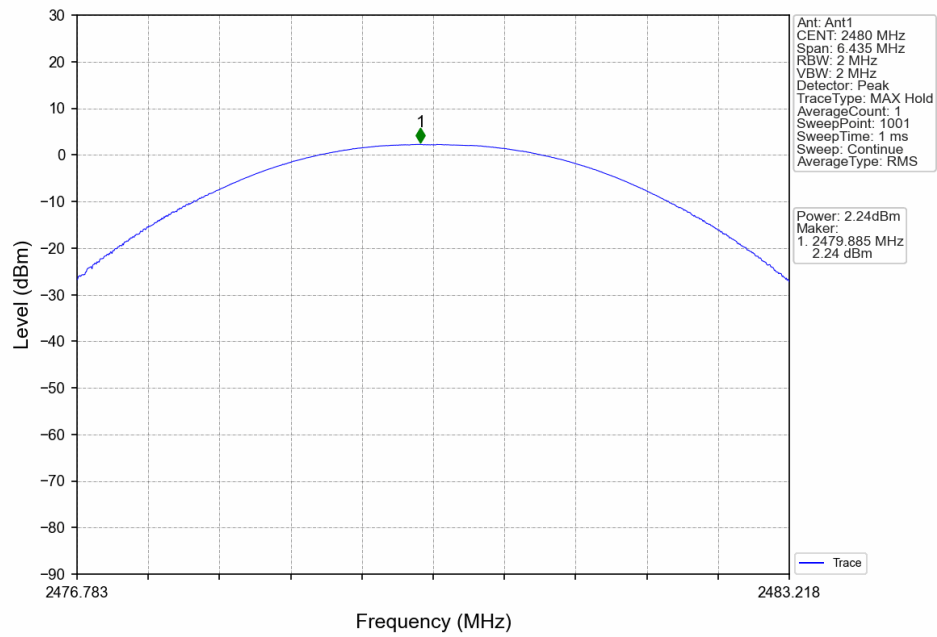
8DPSK_3DH5_LCH_2402MHz_Ant2_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant2_NTNV



8DPSK 3DH5 HCH 2480MHz Ant2 NTN



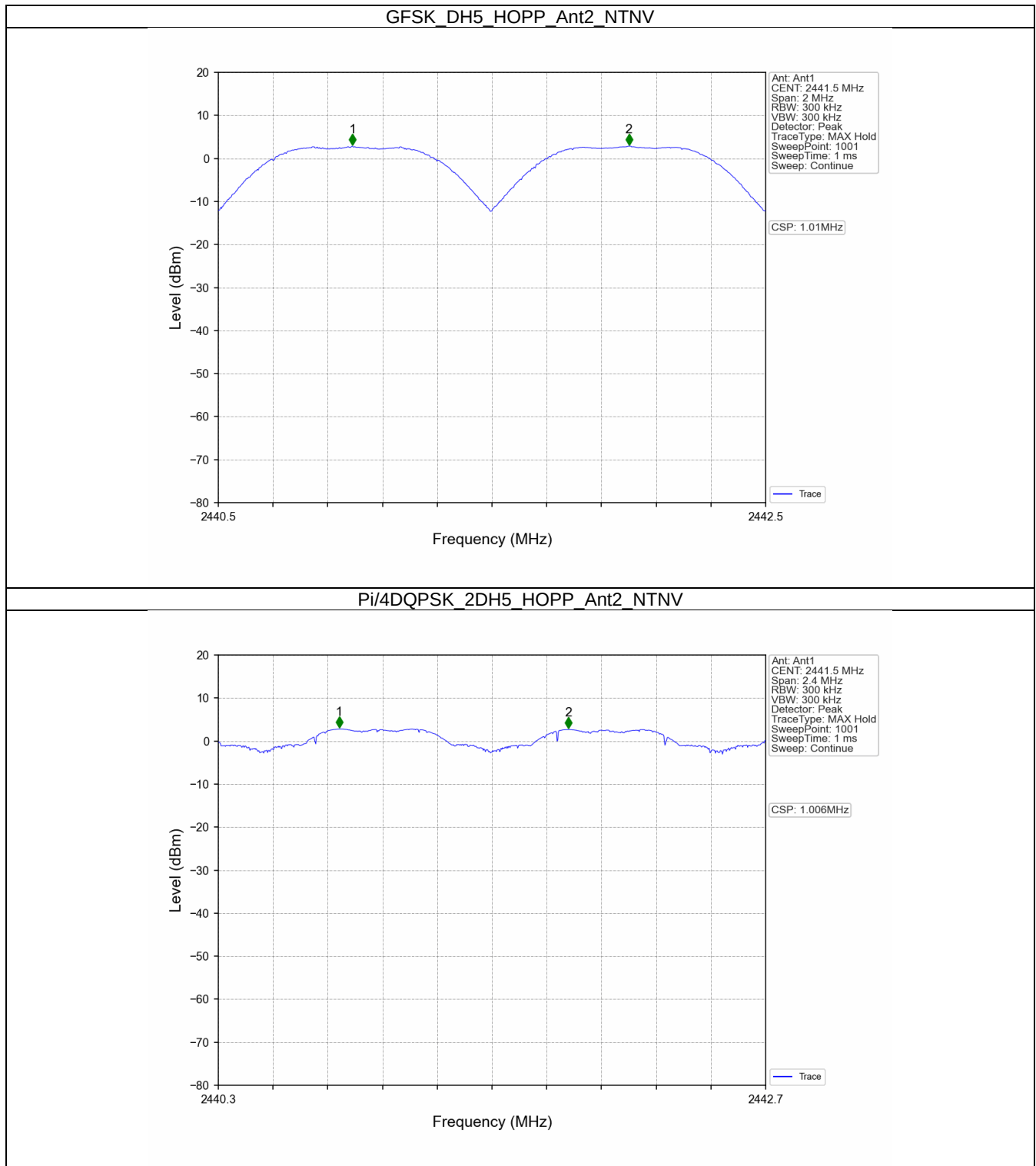
3. Carrier Frequency Separation

3.1 Ant2

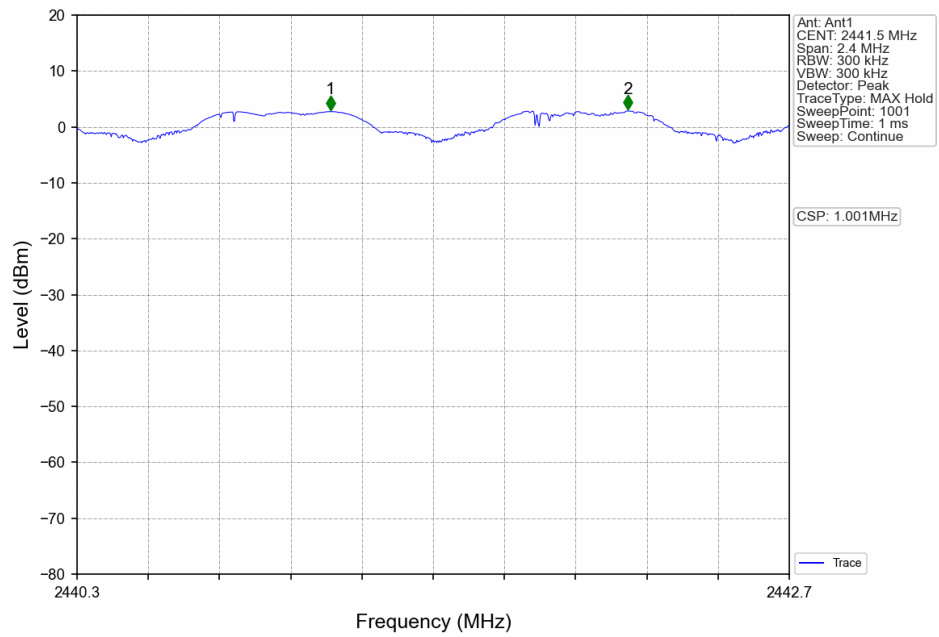
3.1.1 Test Result

Ant2							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.010	0.847	≥ 0.847	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.006	1.276	≥ 0.851	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.289	≥ 0.859	Pass

3.1.2 Test Graph



8DPSK 3DH5 HOPP Ant2 NTN



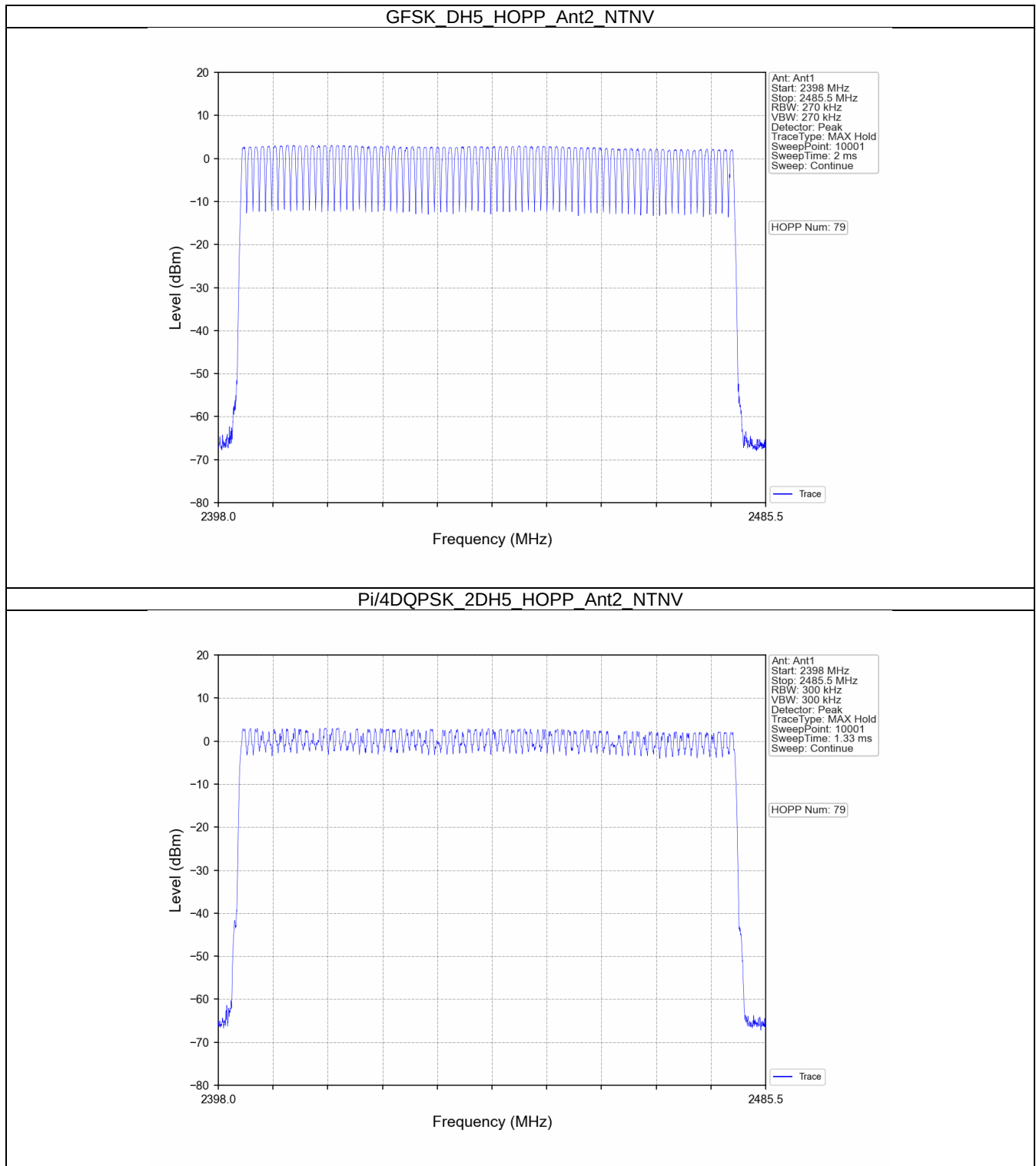
4. Number of Hopping Frequencies

4.1 HoppNum

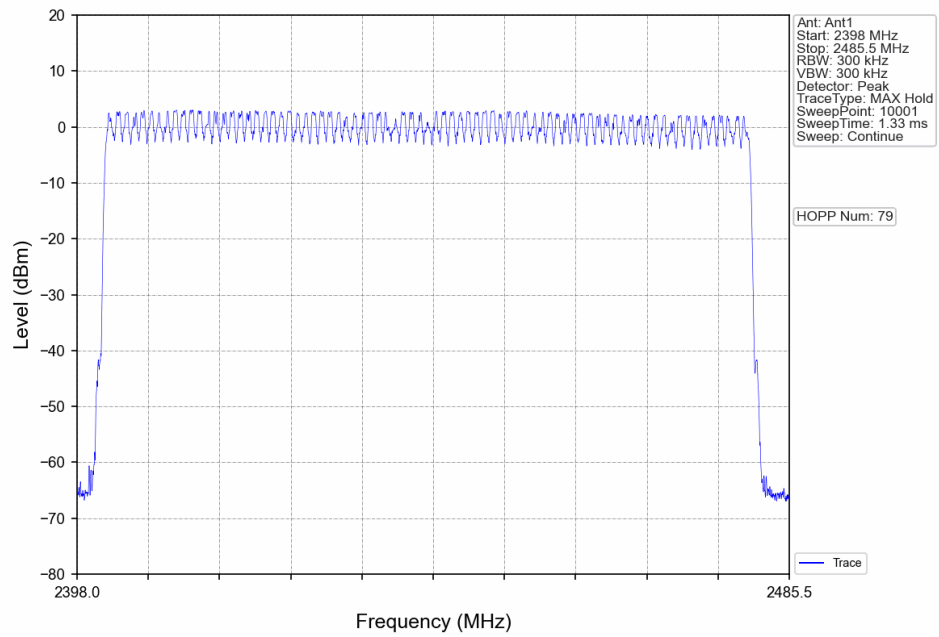
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT2	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

4.1.2 Test Graph



8DPSK 3DH5 HOPP Ant2 NTN



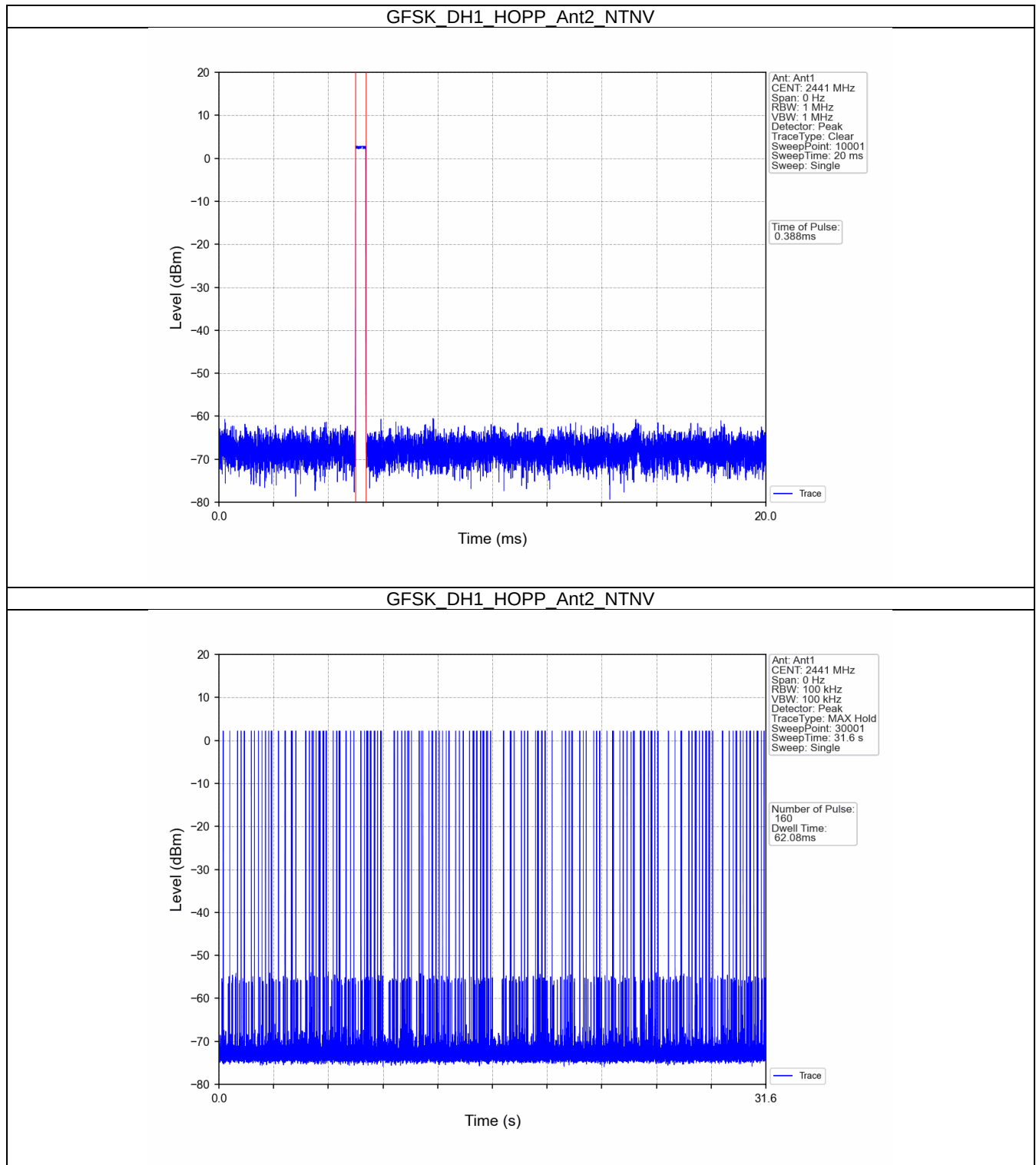
5. Time of Occupancy (Dwell Time)

5.1 Ant2

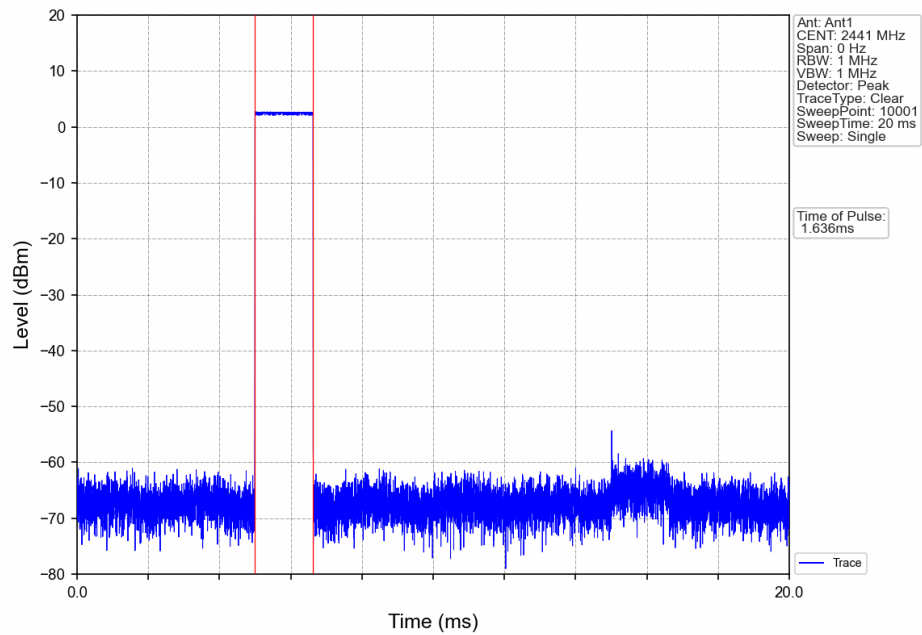
5.1.1 Test Result

Ant2									
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	0.388	31.600	160	62.080	<=400	Pass
			DH3	1.636	31.600	160	261.760	<=400	Pass
			DH5	2.890	31.600	77	222.530	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.394	31.600	156	61.464	<=400	Pass
			2DH3	1.638	31.600	144	235.872	<=400	Pass
			2DH5	2.886	31.600	74	213.564	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.396	31.600	162	64.152	<=400	Pass
			3DH3	1.646	31.600	158	260.068	<=400	Pass
			3DH5	2.898	31.600	68	197.064	<=400	Pass

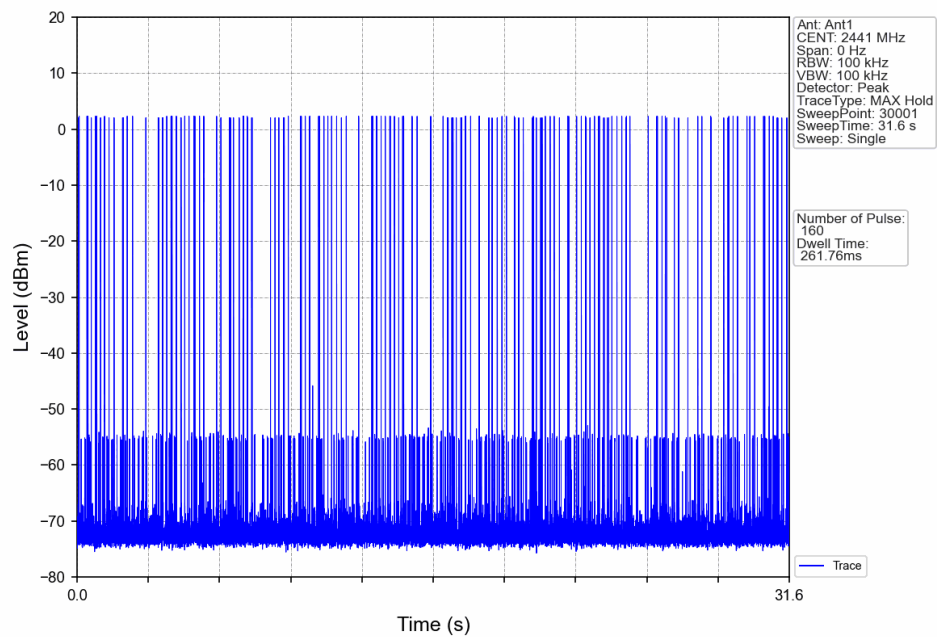
5.1.2 Test Graph



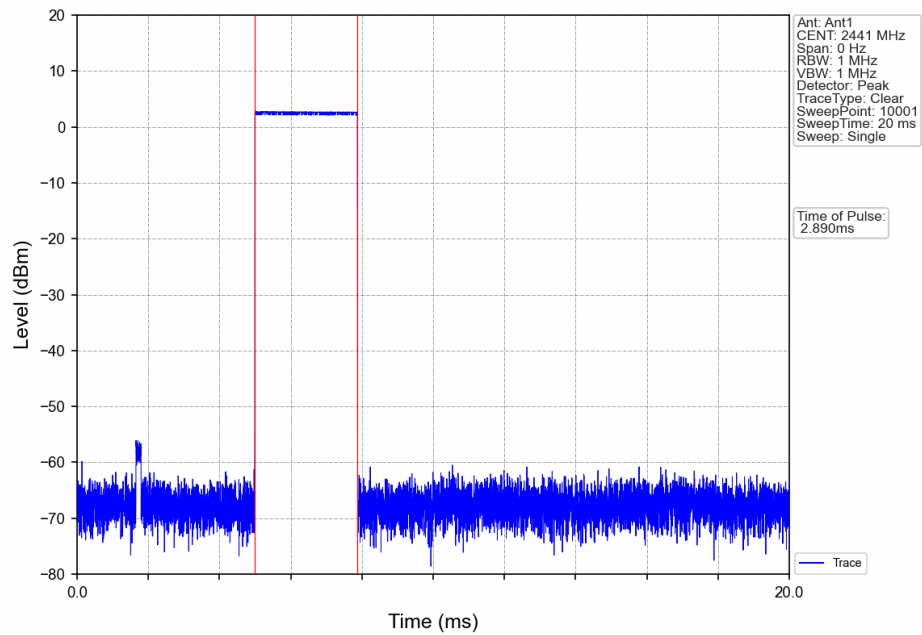
GFSK DH3 HOPP Ant2 NTN



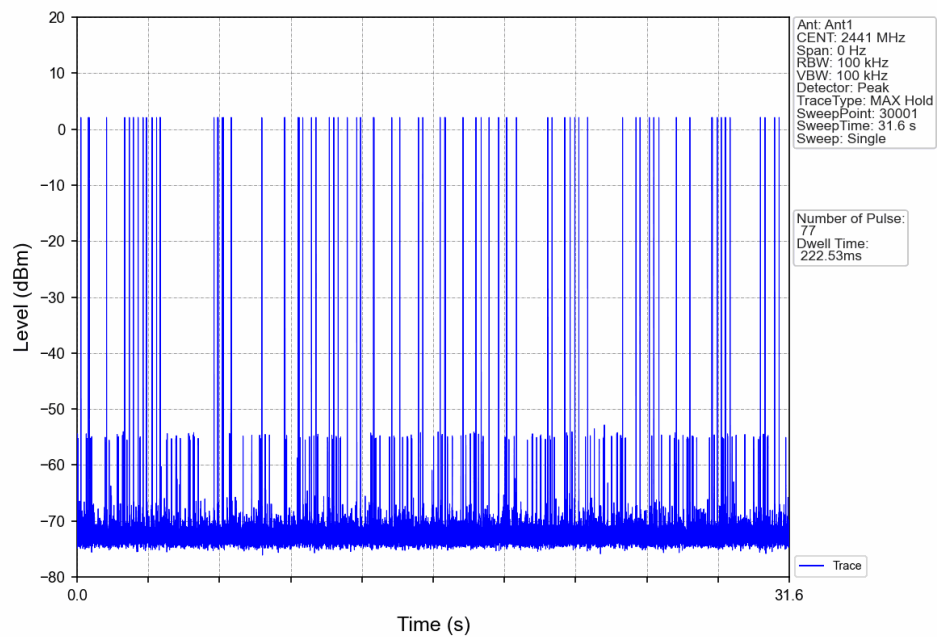
GFSK_DH3_HOPP_Ant2_NTNV



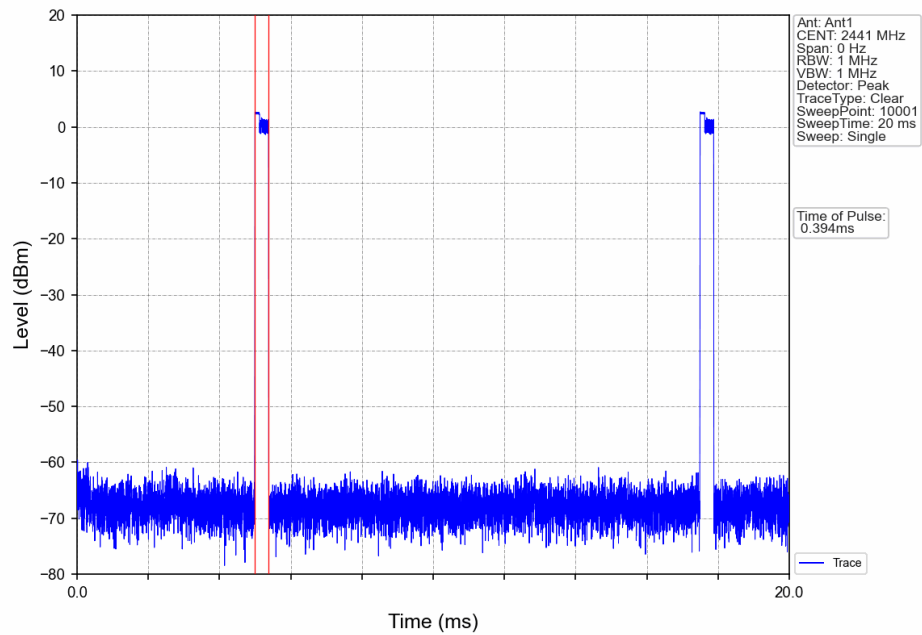
GFSK DH5 HOPP Ant2 NTN



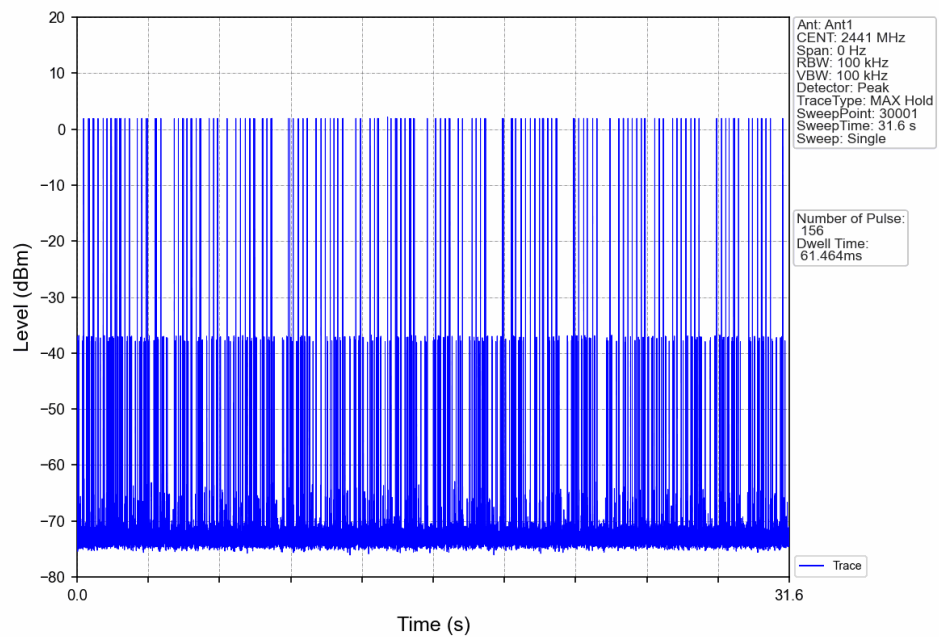
GFSK_DH5_HOPP_Ant2_NTNV



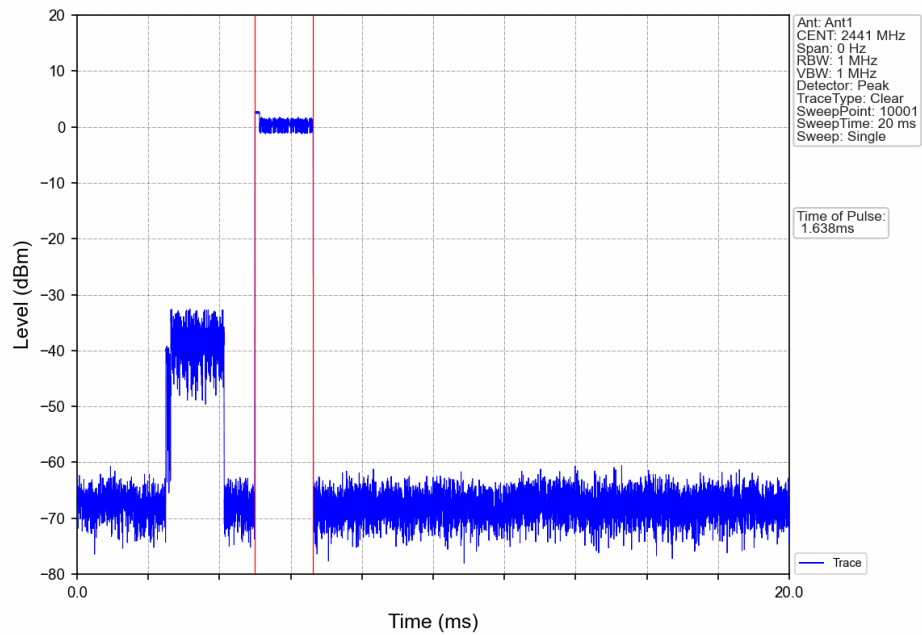
Pi/4DQPSK_2DH1_HOPP_Ant2_NTNV



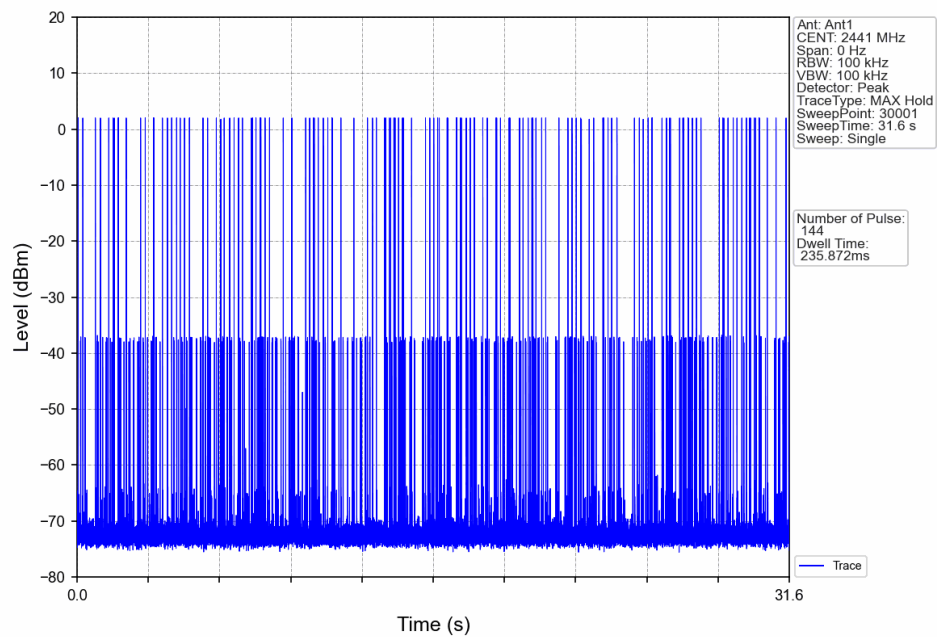
Pi/4DQPSK_2DH1_HOPP_Ant2_NTNV



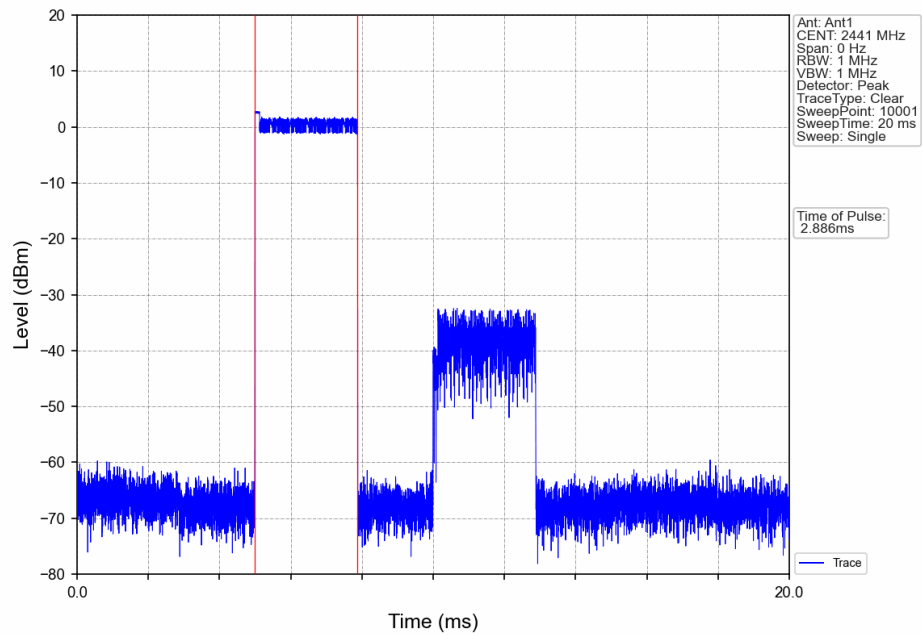
Pi/4DQPSK_2DH3_HOPP_Ant2_NTNV



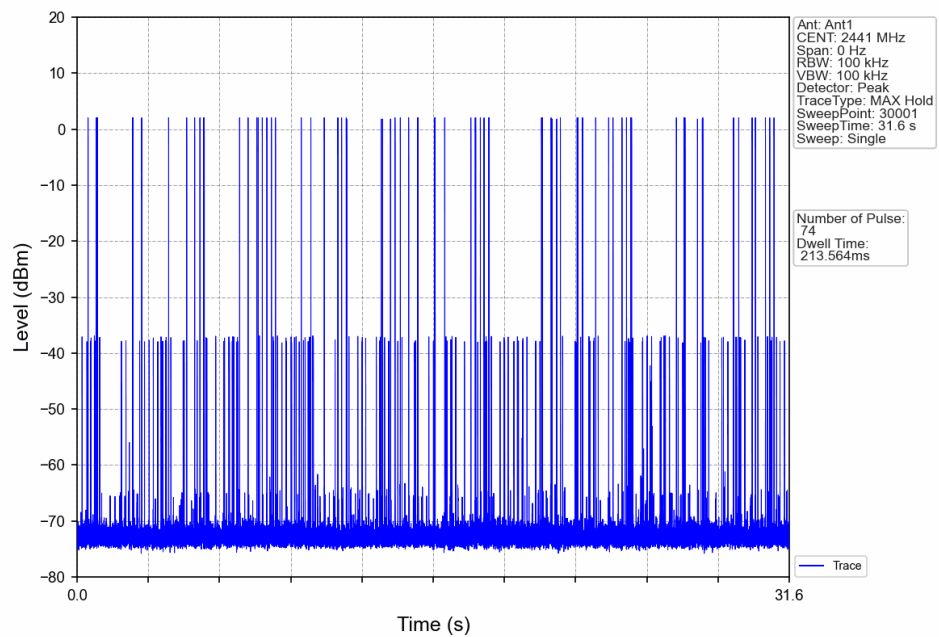
Pi/4DQPSK_2DH3_HOPP_Ant2_NTNV



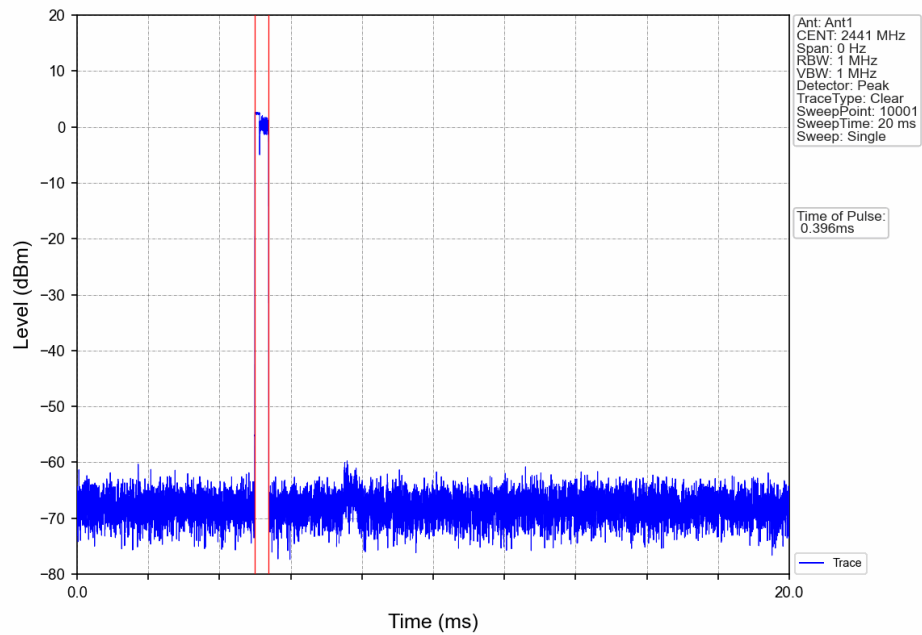
Pi/4DQPSK_2DH5_HOPP_Ant2_NTNV



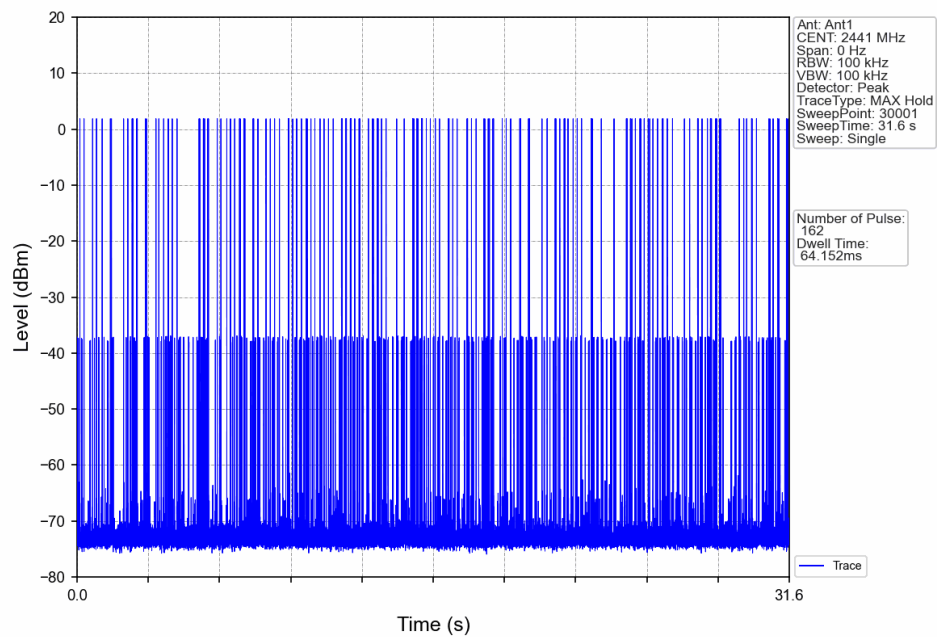
Pi/4DQPSK_2DH5_HOPP_Ant2_NTNV



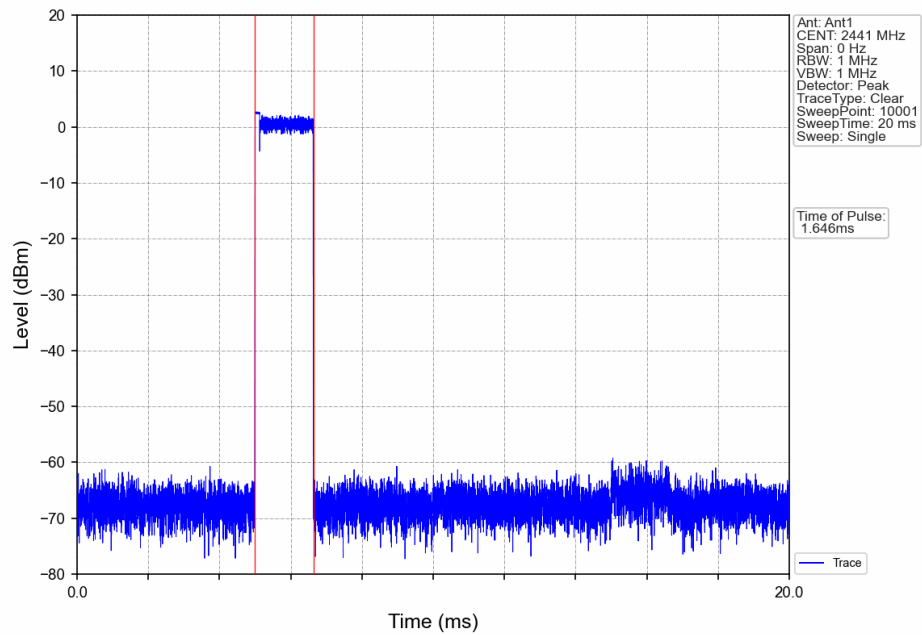
8DPSK 3DH1 HOPP_Ant2_NTNV



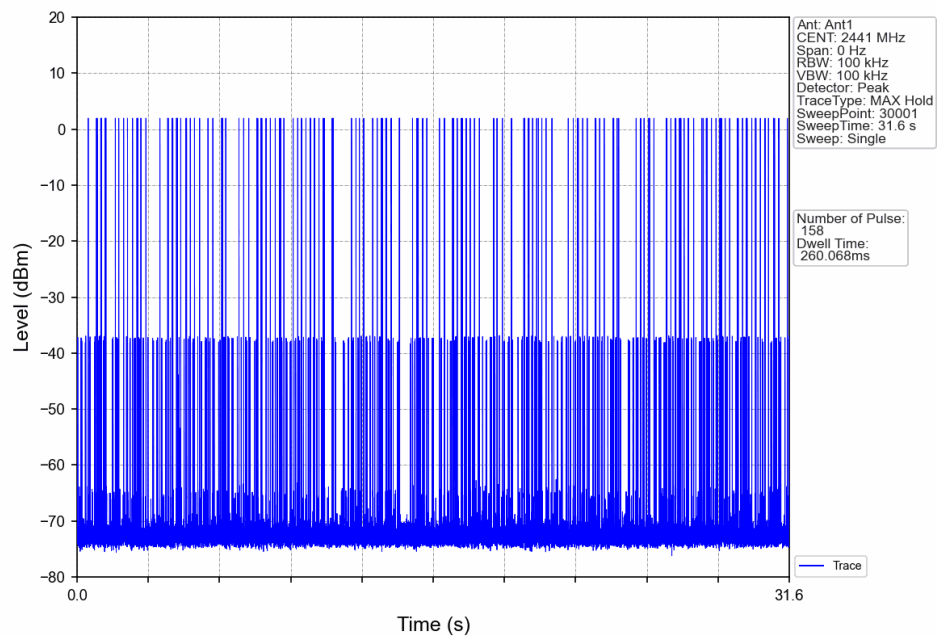
8DPSK_3DH1_HOPP_Ant2_NTNV



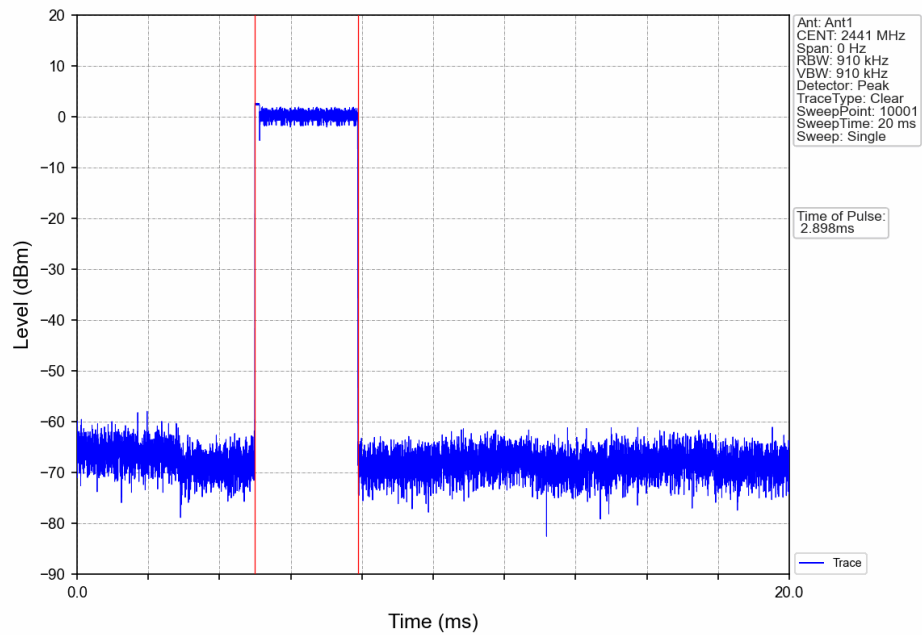
8DPSK 3DH3 HOPP Ant2 NTN



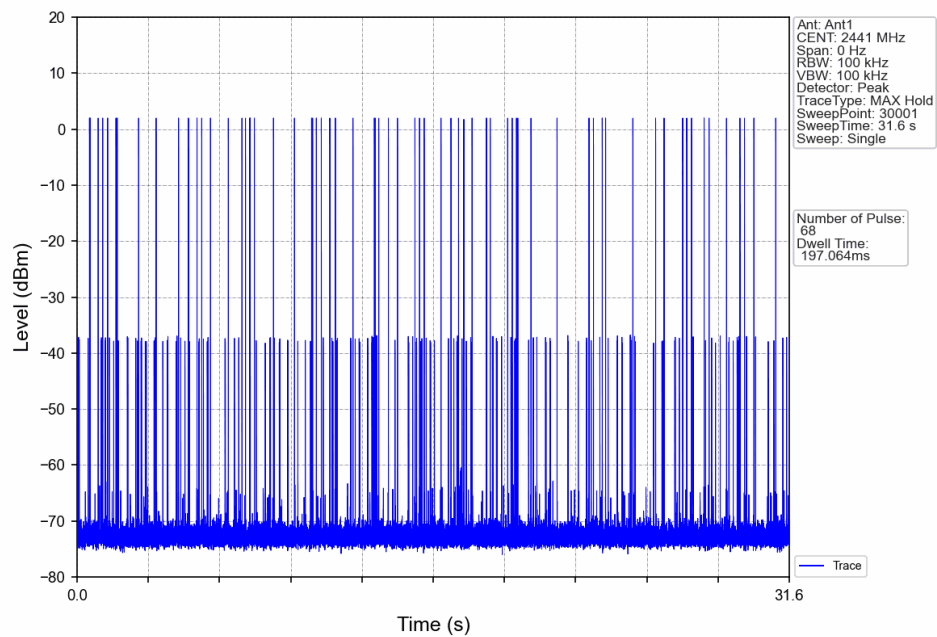
8DPSK 3DH3 HOPP Ant2 NTN



8DPSK 3DH5 HOPP_Ant2_NTNV



8DPSK_3DH5_HOPP_Ant2_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

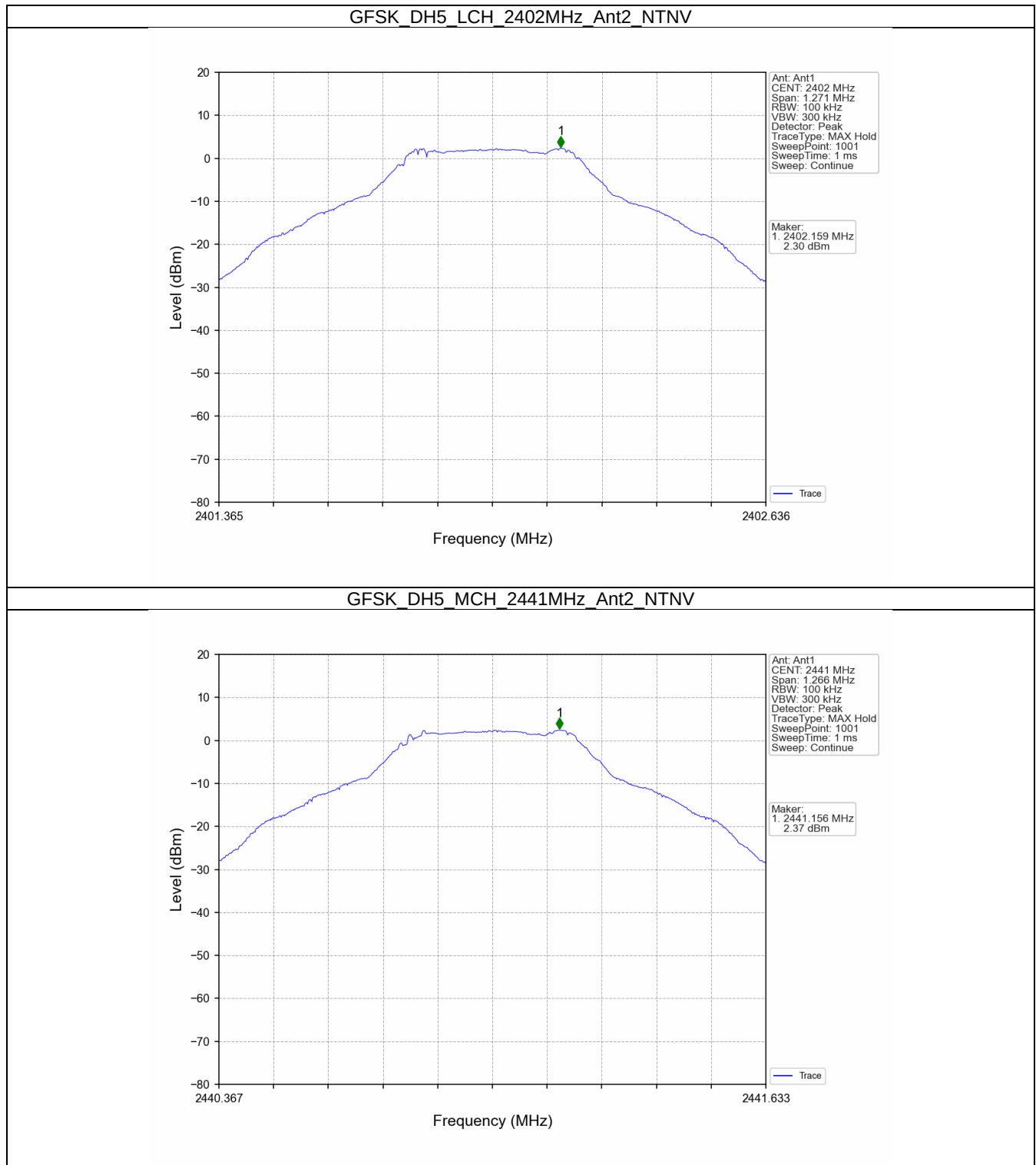
6.1 Ref

6.1.1 Test Result

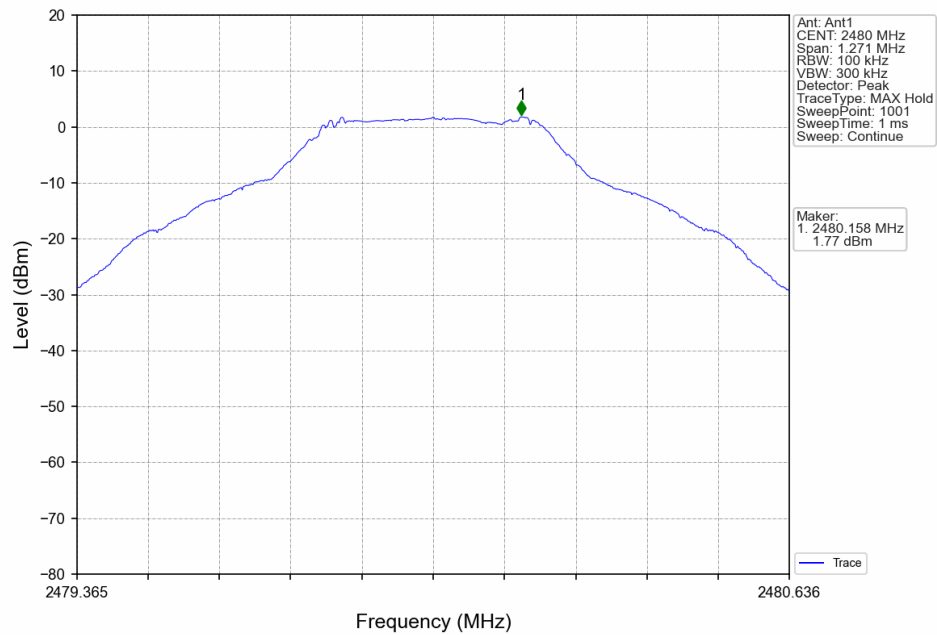
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	2	2.30
		2441	DH5	2	2.37
		2480	DH5	2	1.77
Pi/4DQPSK	SISO	2402	2DH5	2	2.59
		2441	2DH5	2	2.54
		2480	2DH5	2	2.05
8DPSK	SISO	2402	3DH5	2	2.45
		2441	3DH5	2	2.59
		2480	3DH5	2	1.86

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.

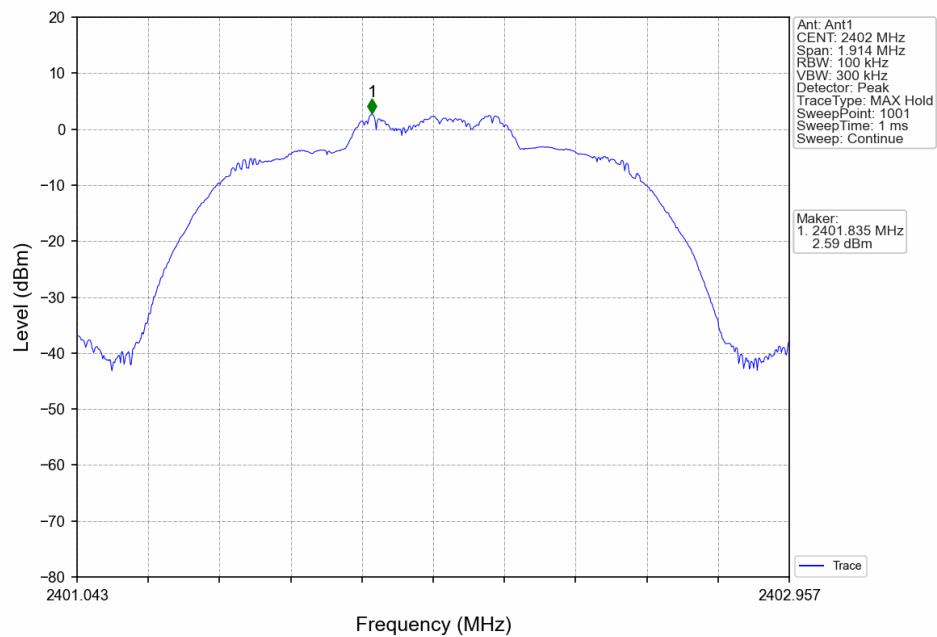
6.1.2 Test Graph



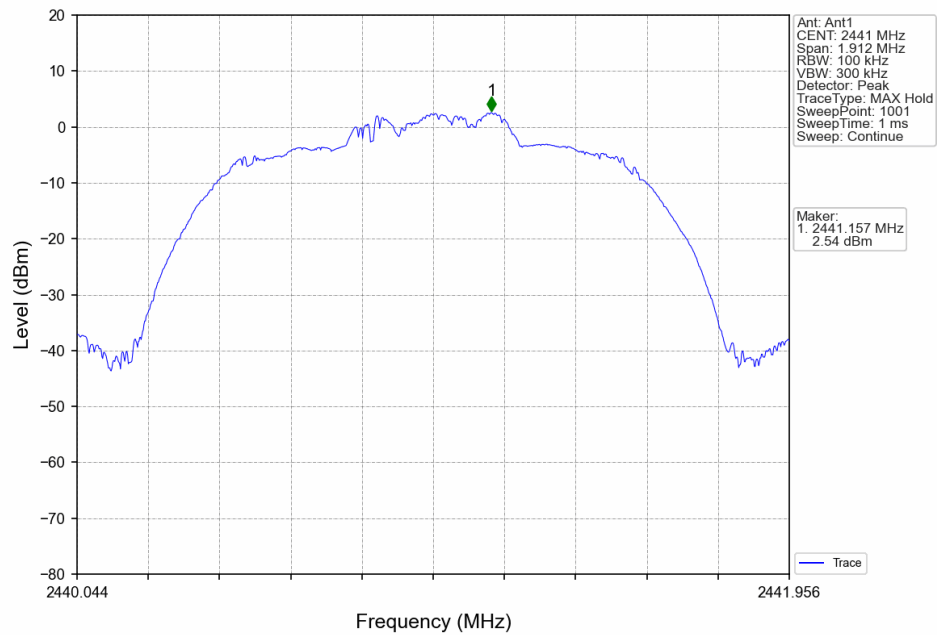
GFSK DH5 HCH 2480MHz Ant2 NTN



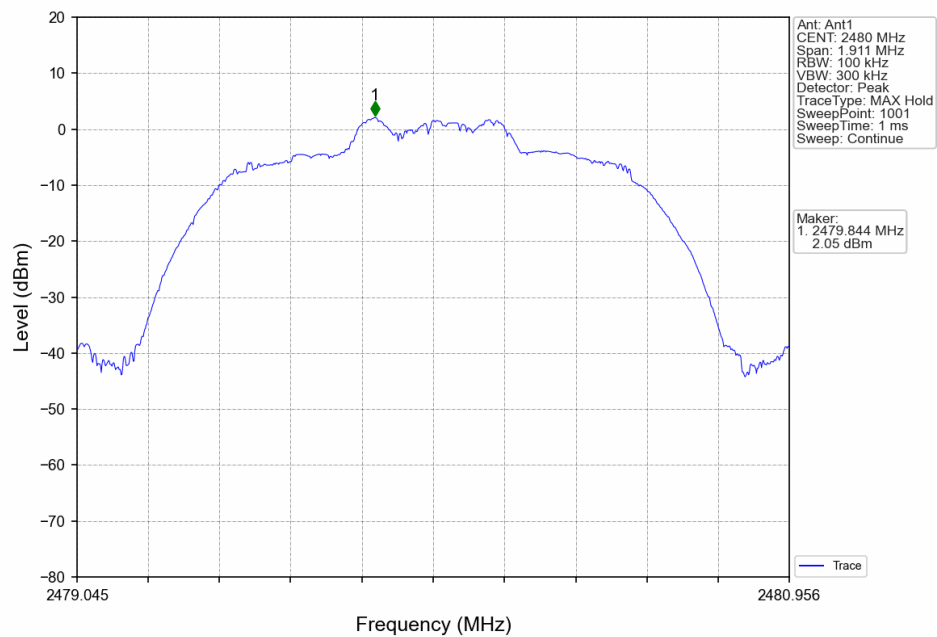
Pi/4DQPSK 2DH5 LCH 2402MHz Ant2 NTN



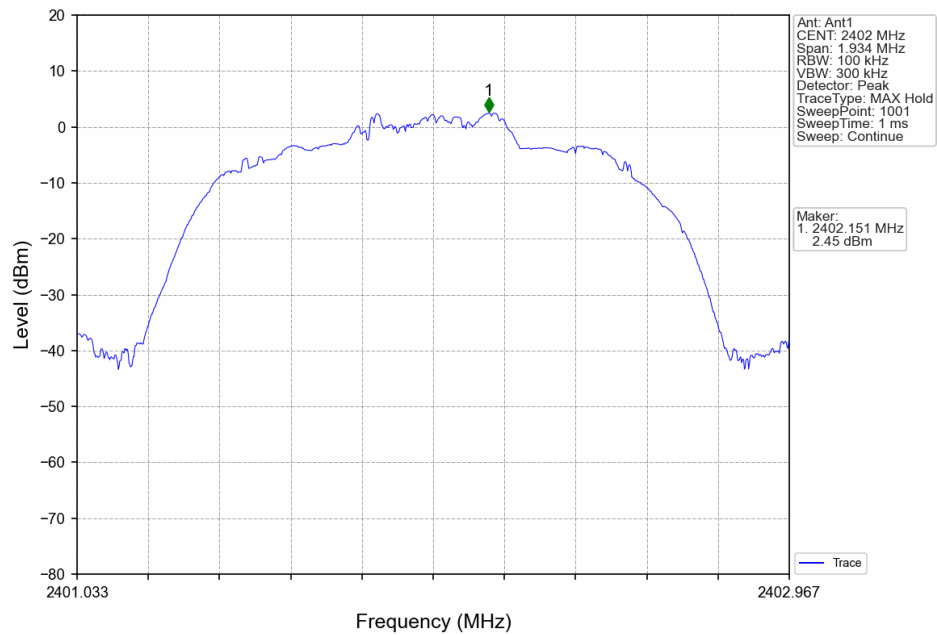
Pi/4DQPSK 2DH5 MCH 2441MHz Ant2 NTN



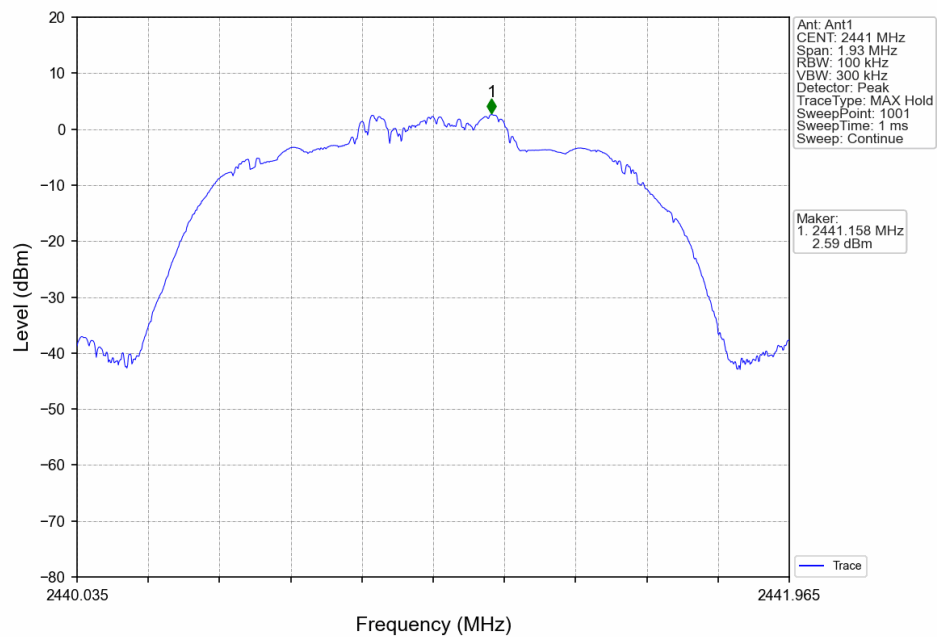
Pi/4DQPSK 2DH5 HCH 2480MHz Ant2 NTN



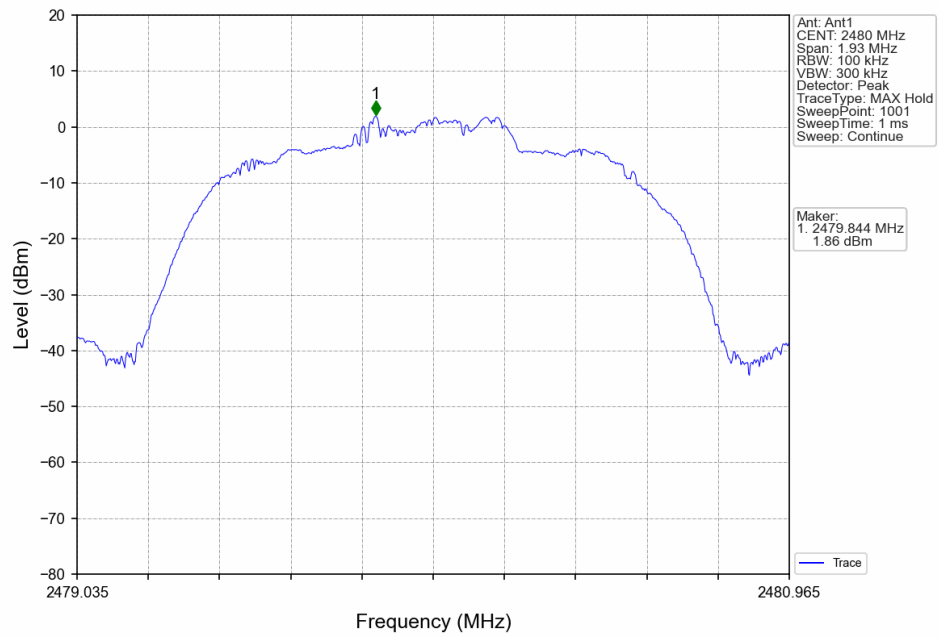
8DPSK_3DH5_LCH_2402MHz_Ant2_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant2_NTNV

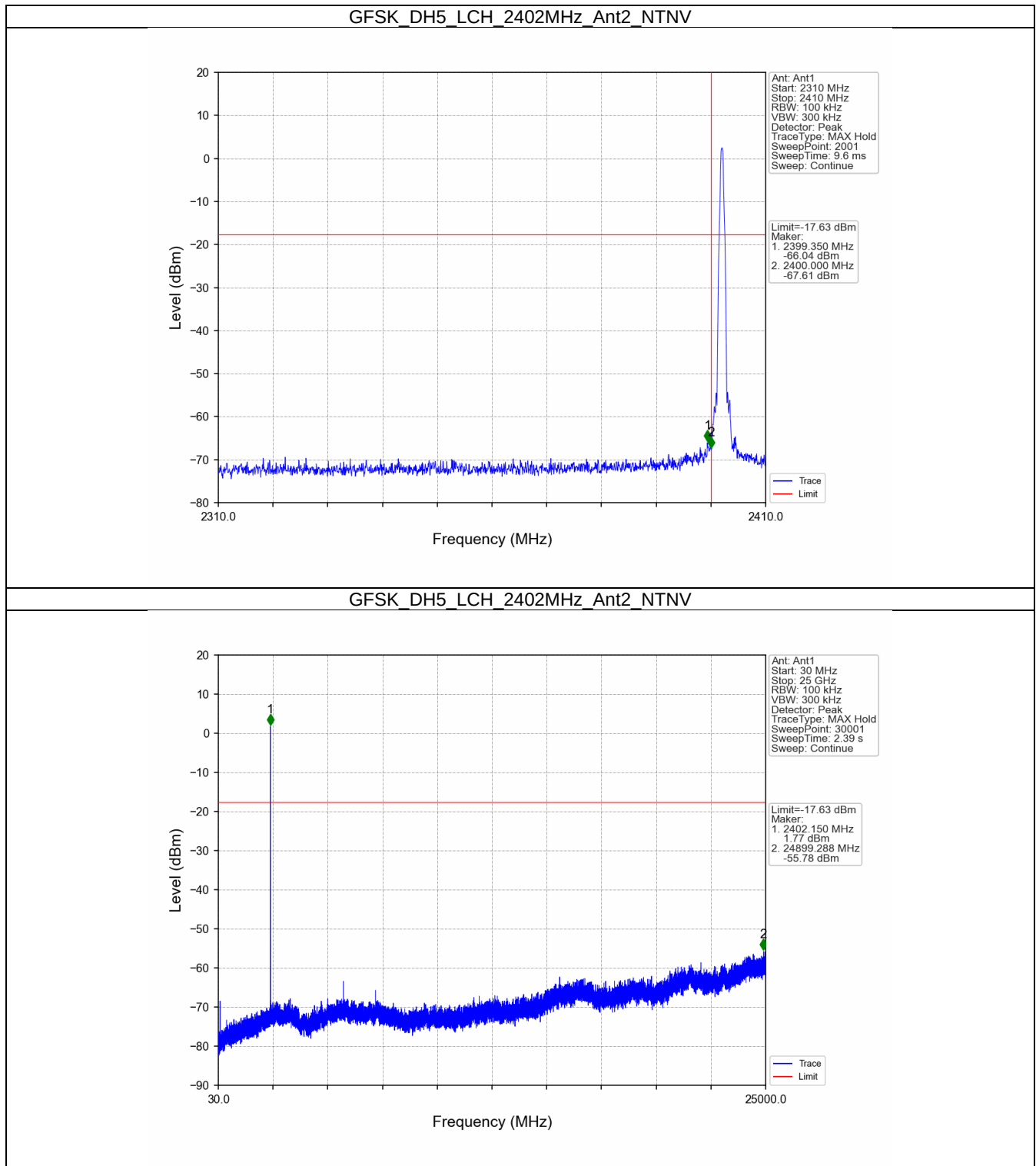


8DPSK 3DH5 HCH 2480MHz Ant2 NTN

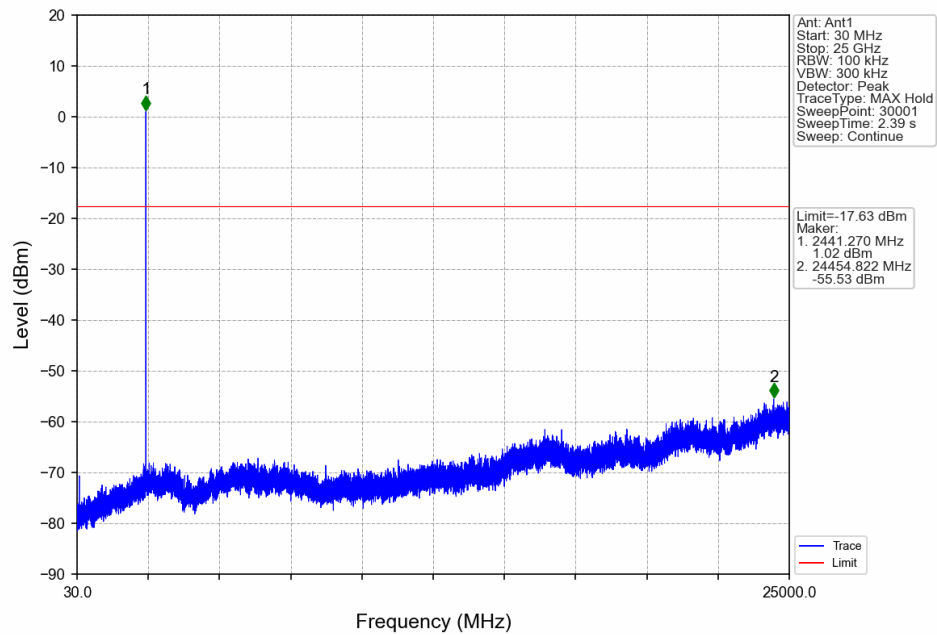


Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	2	2.37	-17.63	Pass
		2441	DH5	2	2.37	-17.63	Pass
		2480	DH5	2	2.37	-17.63	Pass
		HOPP	DH5	2	2.37	-17.63	Pass
Pi/4DQPSK	SISO	2402	2DH5	2	2.59	-17.41	Pass
		2441	2DH5	2	2.59	-17.41	Pass
		2480	2DH5	2	2.59	-17.41	Pass
		HOPP	2DH5	2	2.59	-17.41	Pass
8DPSK	SISO	2402	3DH5	2	2.59	-17.41	Pass
		2441	3DH5	2	2.59	-17.41	Pass
		2480	3DH5	2	2.59	-17.41	Pass
		HOPP	3DH5	2	2.59	-17.41	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.							

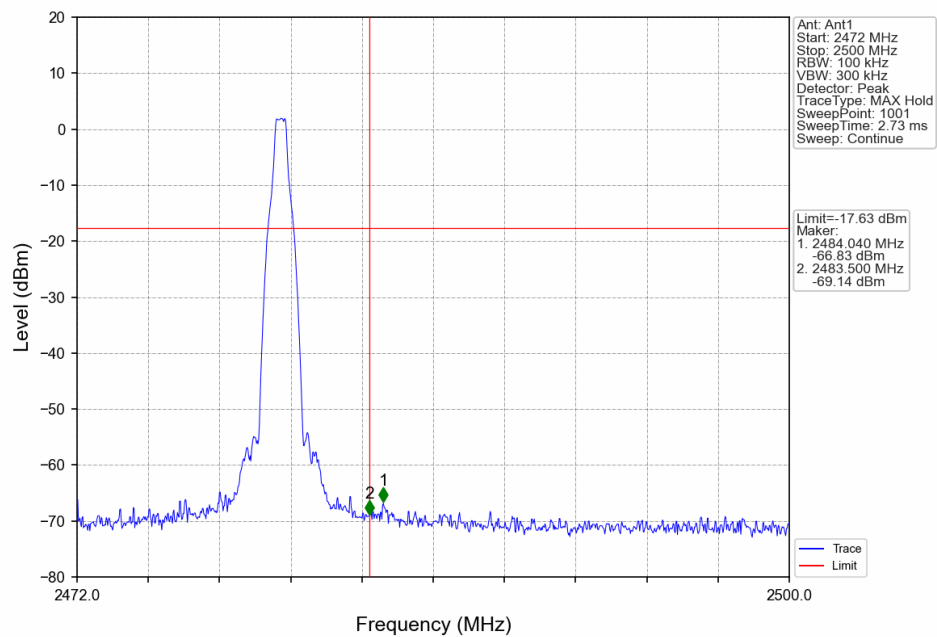
6.2.2 Test Graph



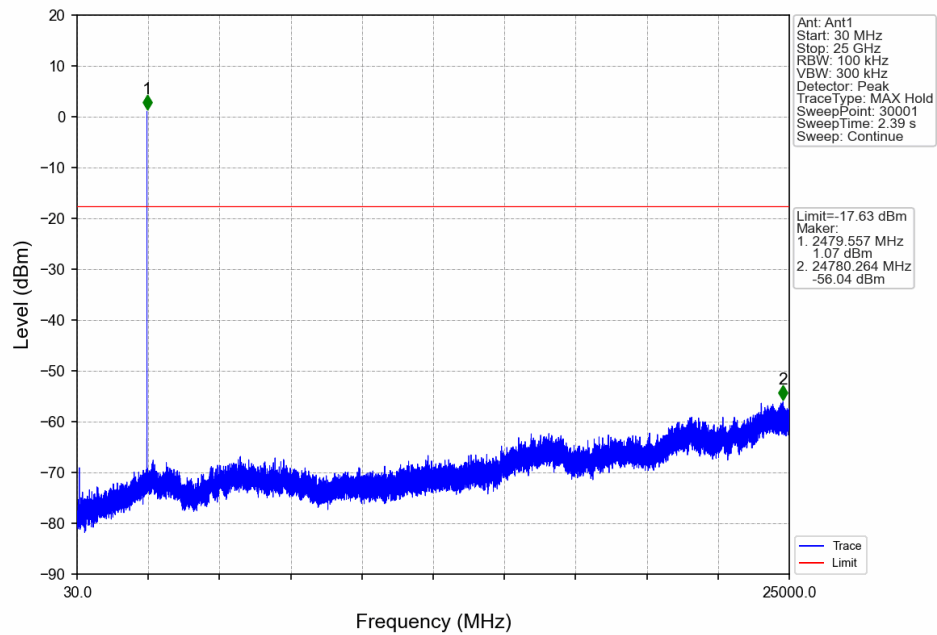
GFSK DH5 MCH 2441MHz Ant2 NTN



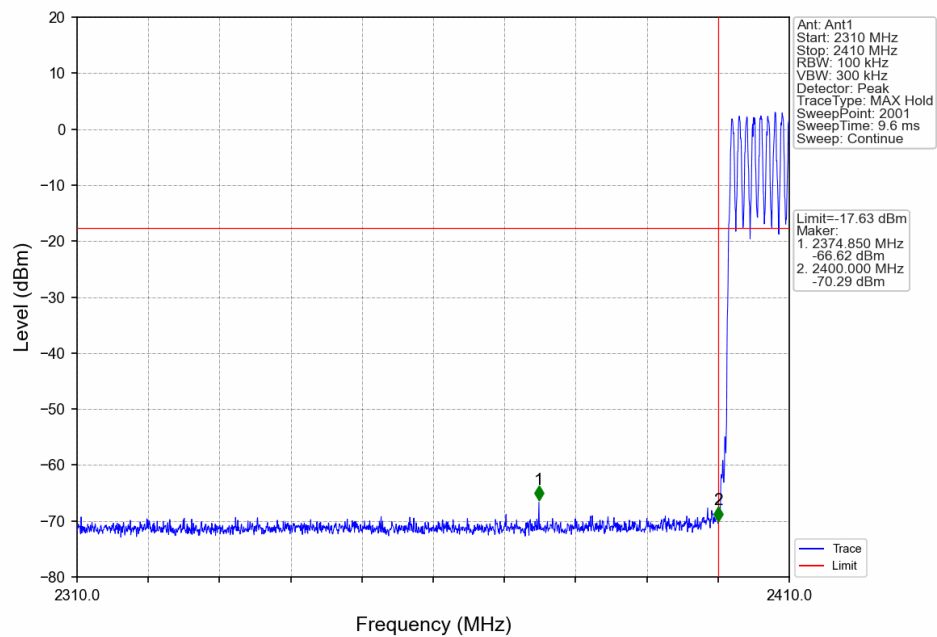
GFSK_DH5_HCH_2480MHz_Ant2_NTN



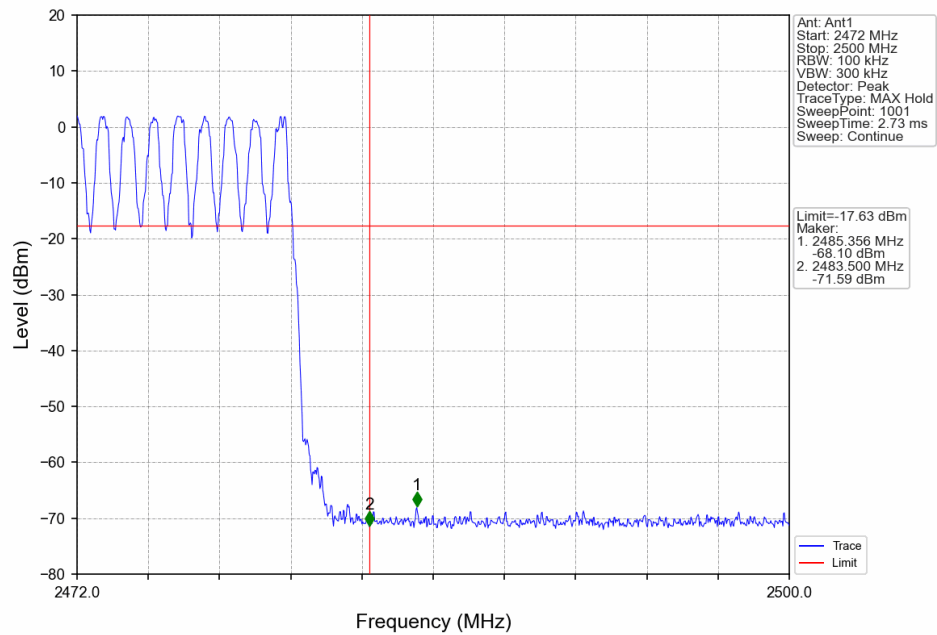
GFSK DH5 HCH 2480MHz Ant2 NTN



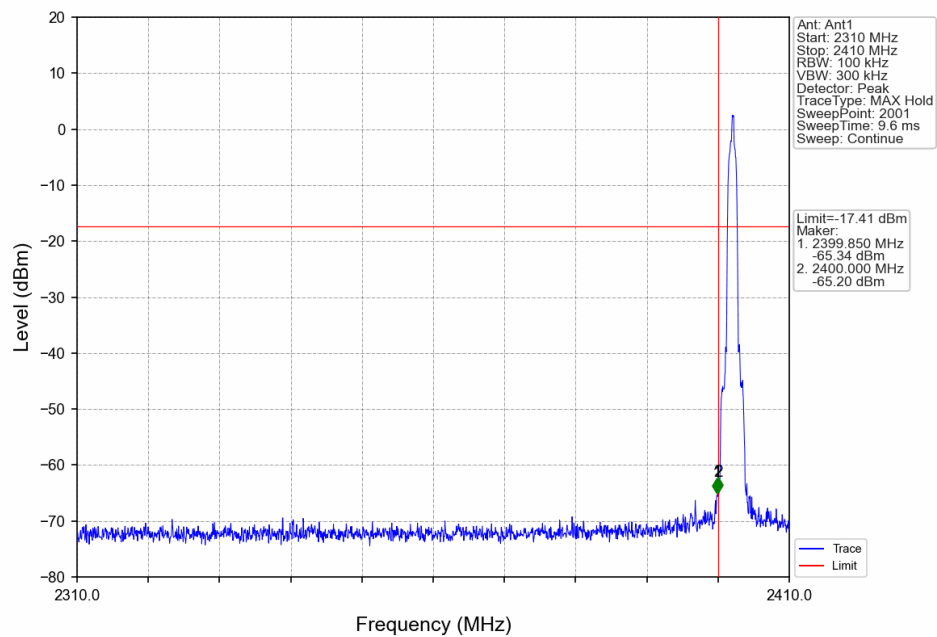
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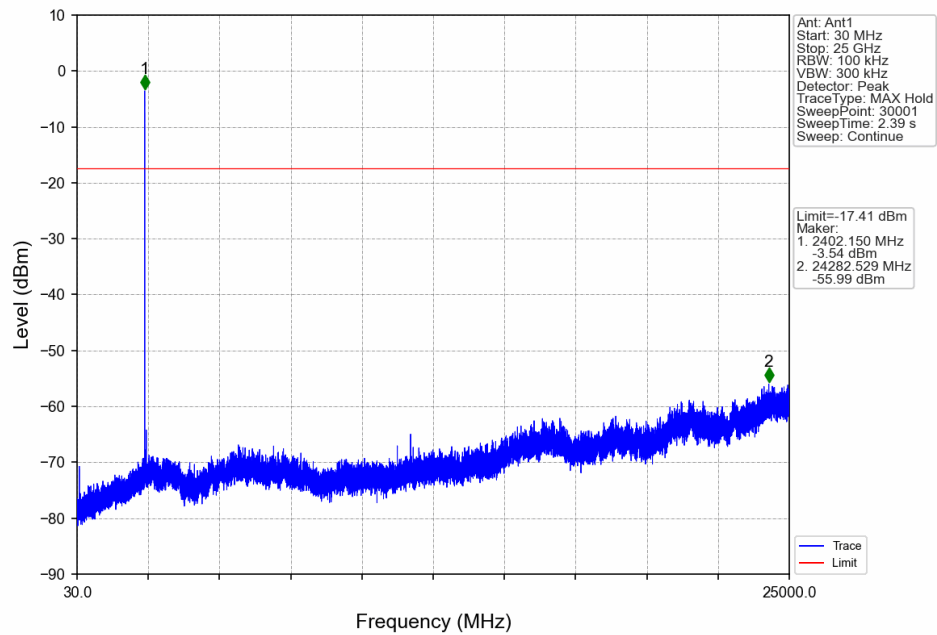
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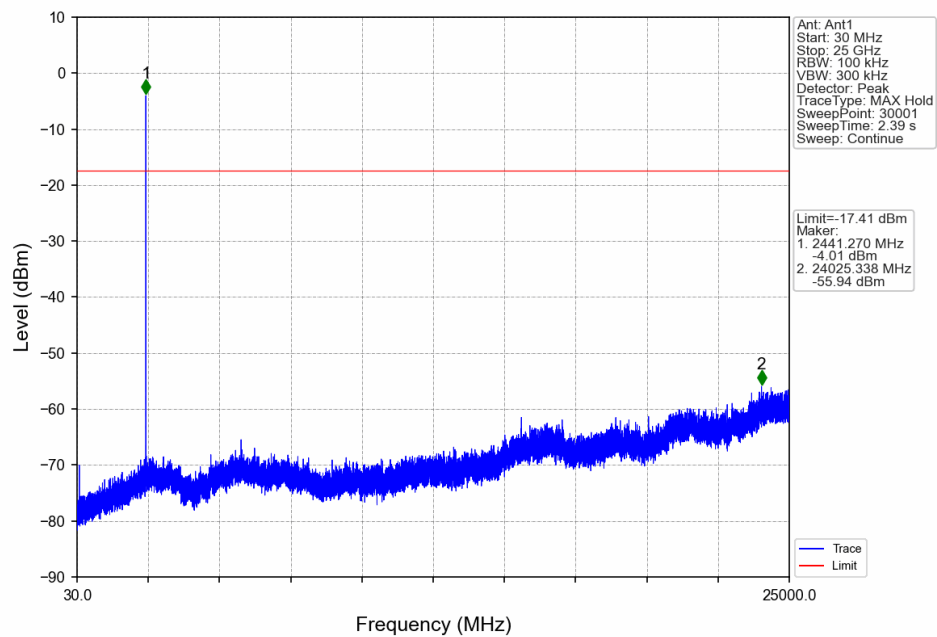
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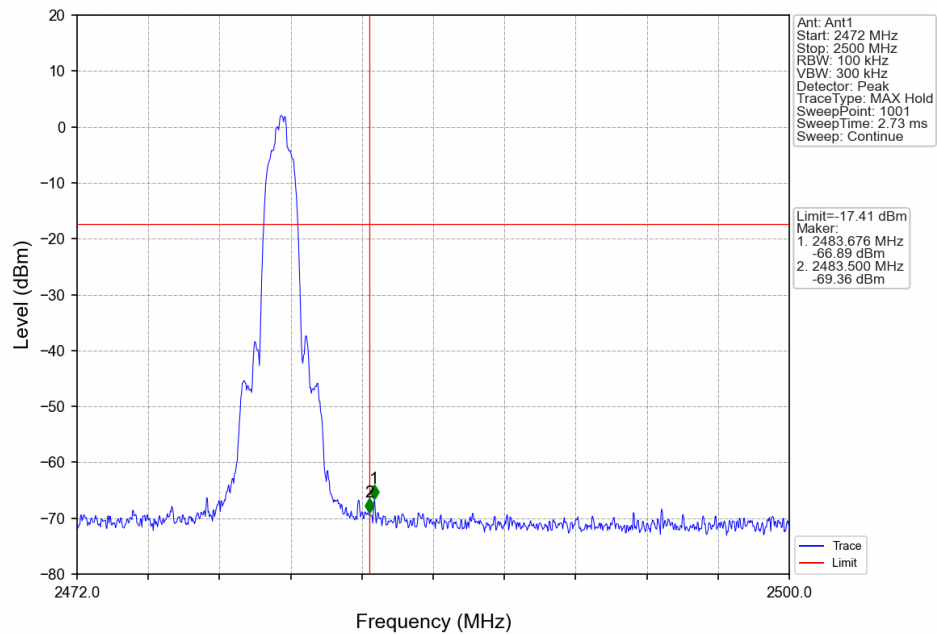
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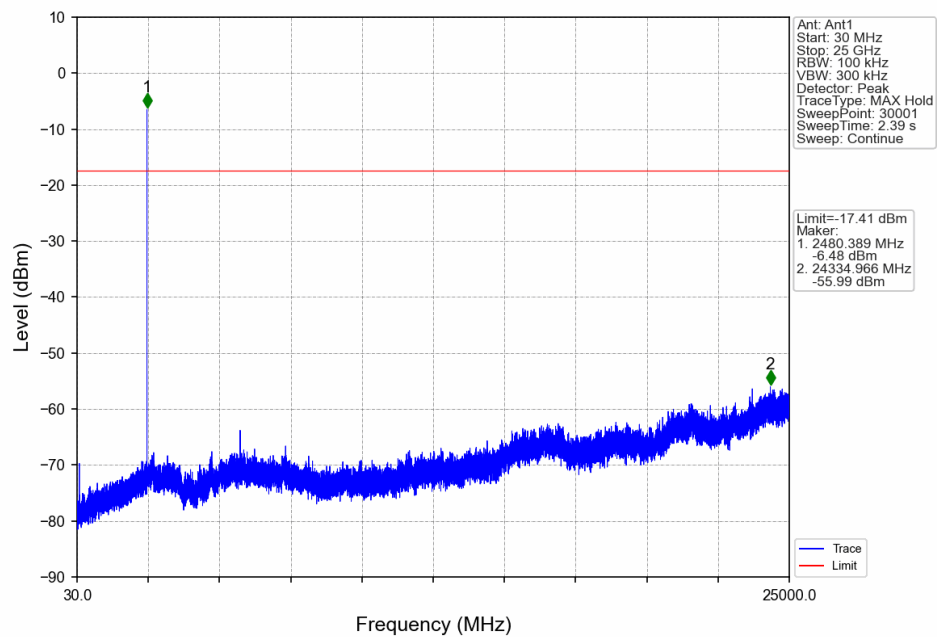
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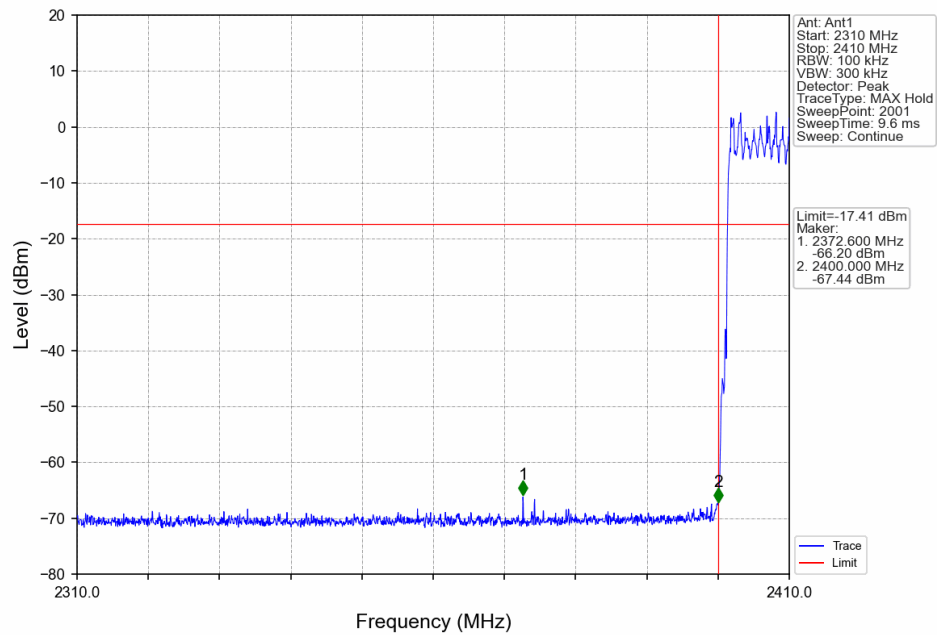
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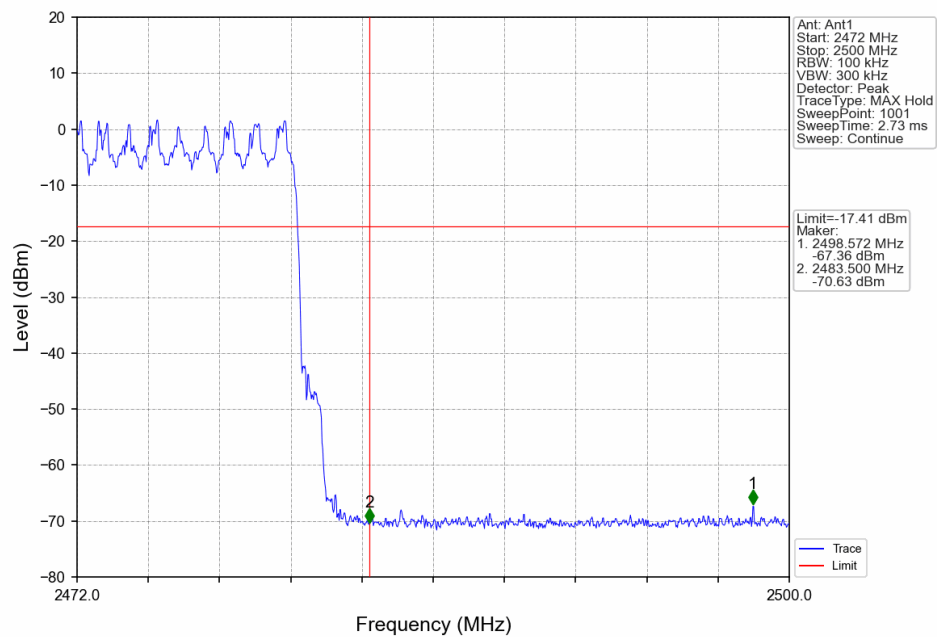
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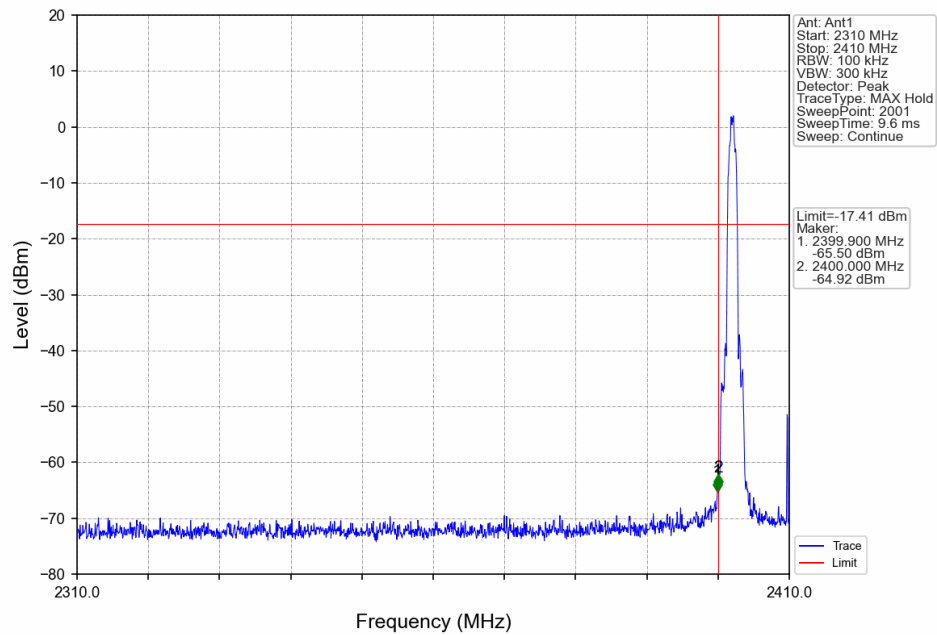
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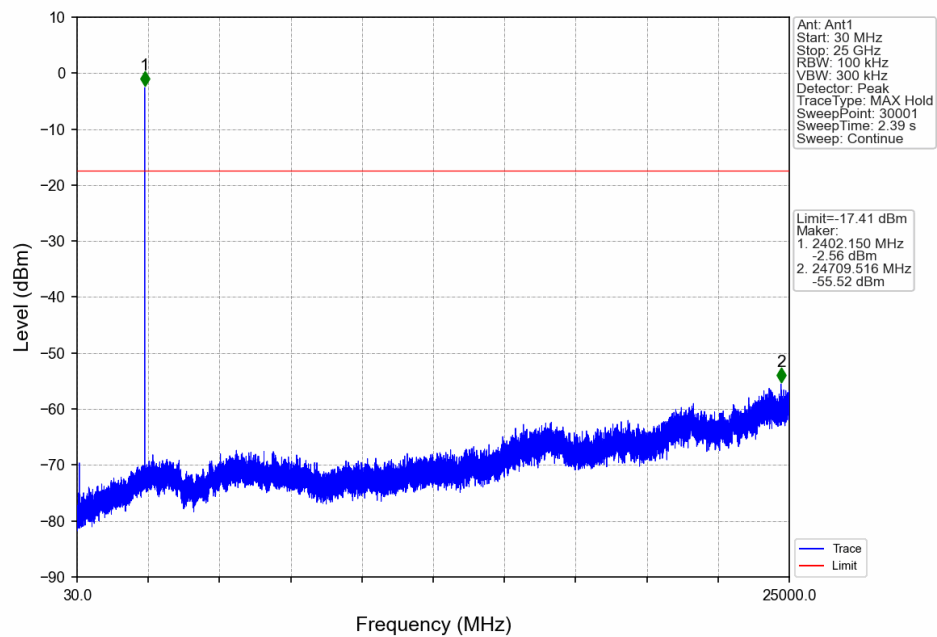
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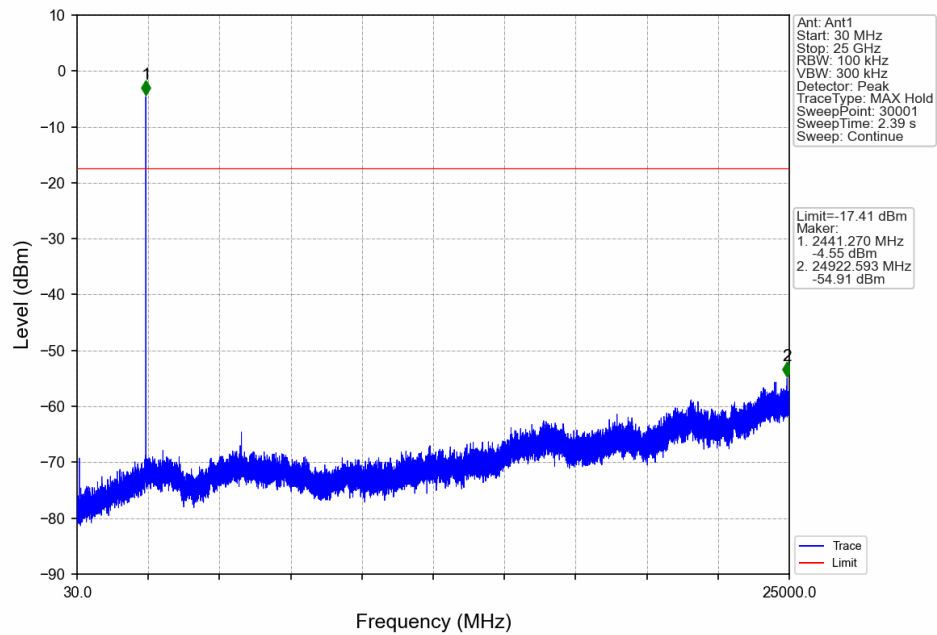
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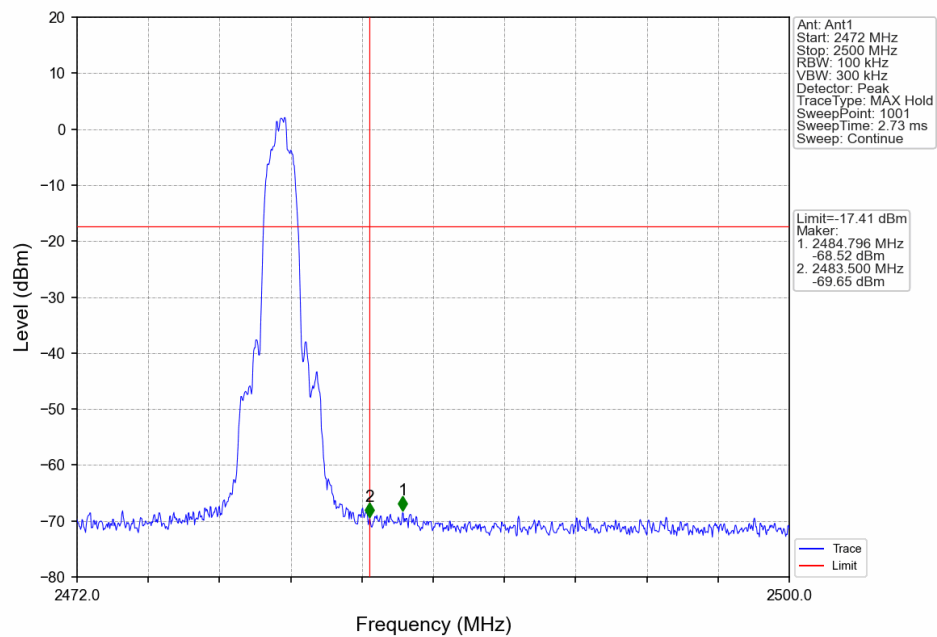
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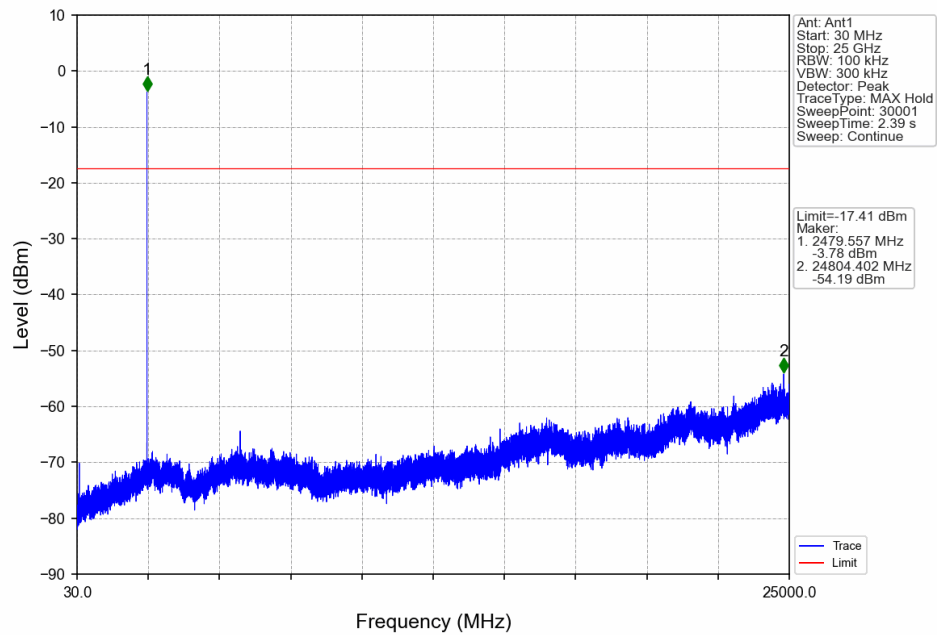
8DPSK_3DH5_MCH_2441MHz_Ant2_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant2_NTNV



8DPSK 3DH5 HCH 2480MHz Ant2 NTN



8DPSK 3DH5 HOPP Ant2 NTN

