



## Appendix A

### RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Headset

Trade Mark: N/A

Test Model: 6S

#### Environmental Conditions

Temperature:	25.2°C
Relative Humidity:	51.2%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



# Contents

Page

**COVER PAGE**

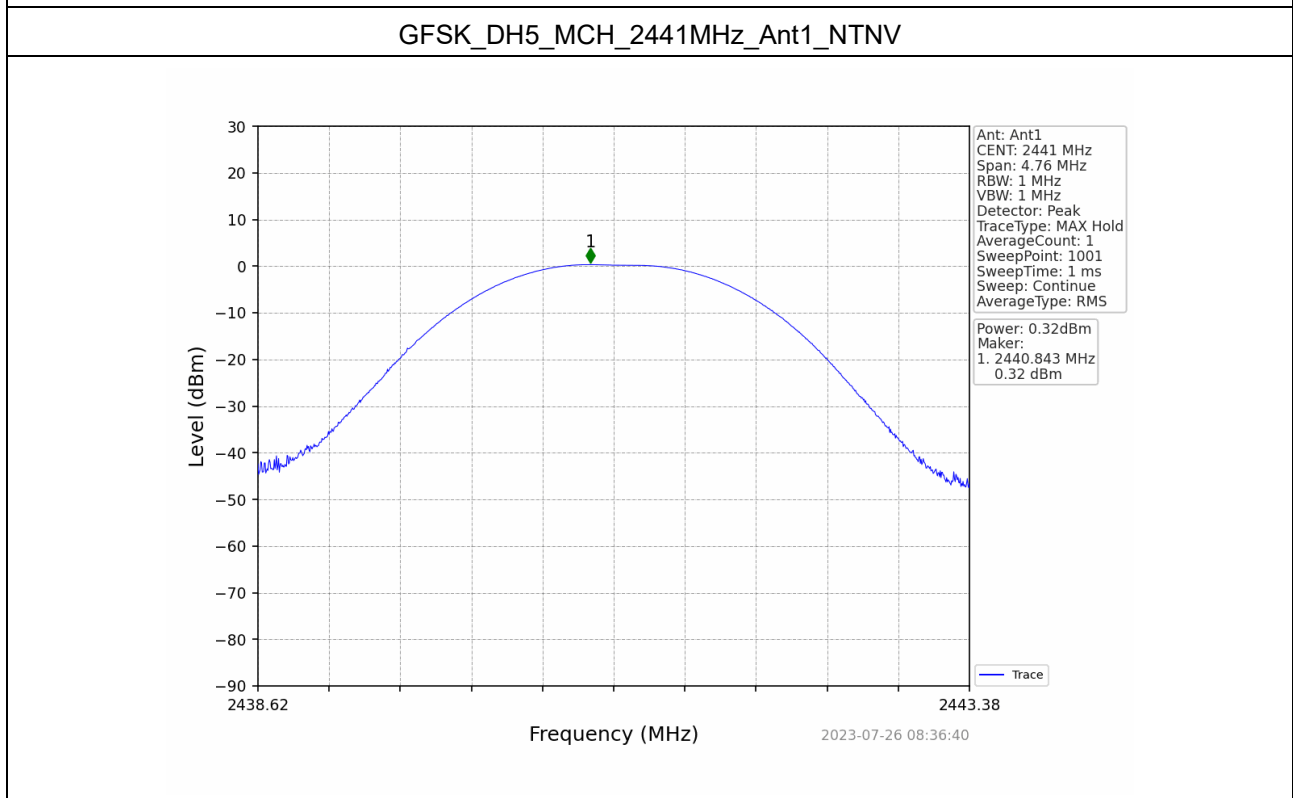
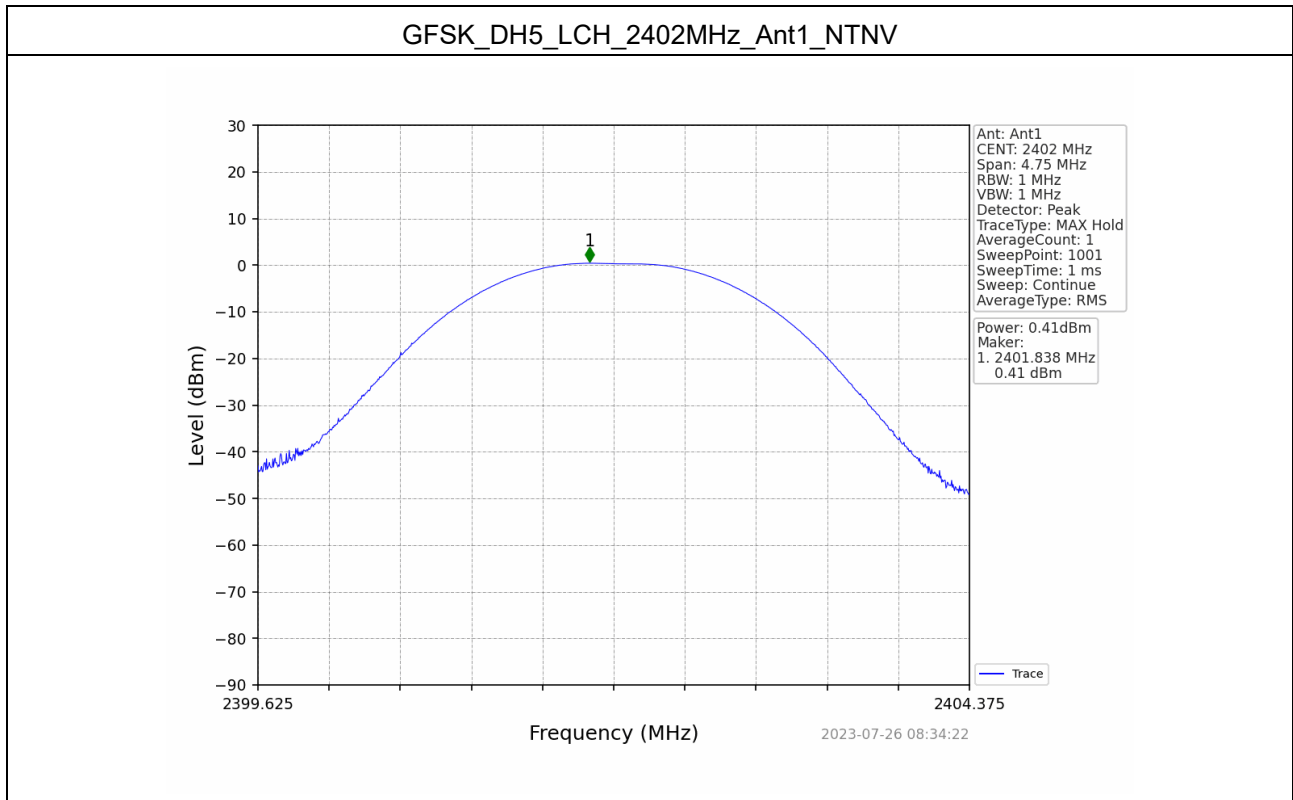
1	Maximum Conducted Peak Output Power .....	3
1.1	Test Result.....	3
1.2	Test Graphs .....	4
2	20dB Bandwidth .....	7
2.1	Test Result.....	7
2.2	Test Graphs .....	8
3	Carrier Frequency Separation .....	11
3.1	Test Result.....	11
3.2	Test Graphs .....	12
4	Hopping Channel Number.....	13
4.1	Test Result.....	13
4.2	Test Graphs .....	14
5	Dwell Time.....	15
5.1	Test Result.....	15
5.2	Test Graphs .....	16
6	Conducted Spurious Emissions and Band Edges Test .....	22
6.1	Test Result.....	22
6.2	Test Graphs .....	23
7	Band-edge for RF Conducted Emissions .....	33
7.1	Test Result.....	33

# 1 Maximum Conducted Peak Output Power

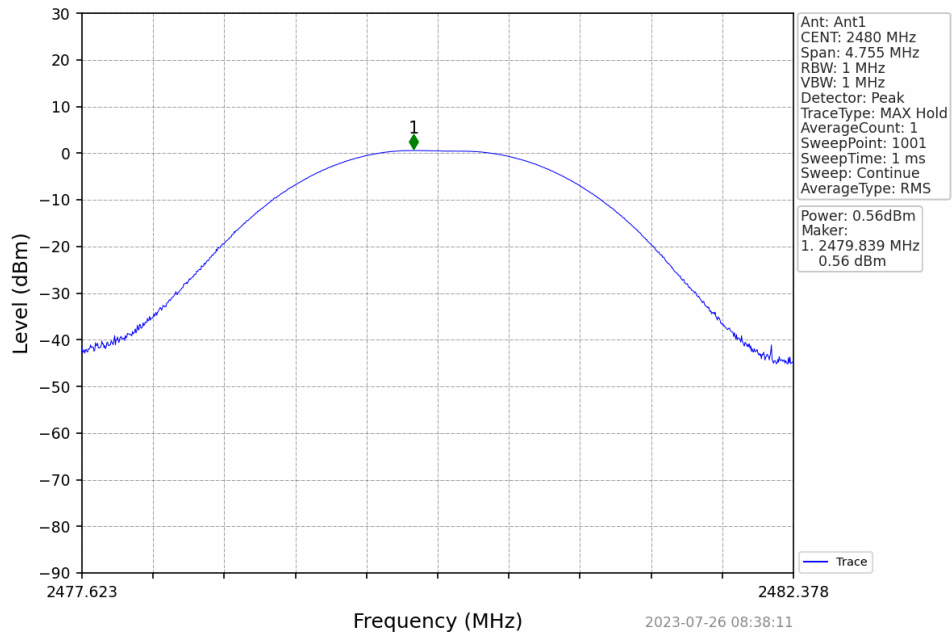
## 1.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.41	21	Pass
	MCH	0.32	21	Pass
	HCH	0.56	21	Pass
$\pi/4$ -DQPSK	LCH	1.17	21	Pass
	MCH	1.06	21	Pass
	HCH	1.30	21	Pass

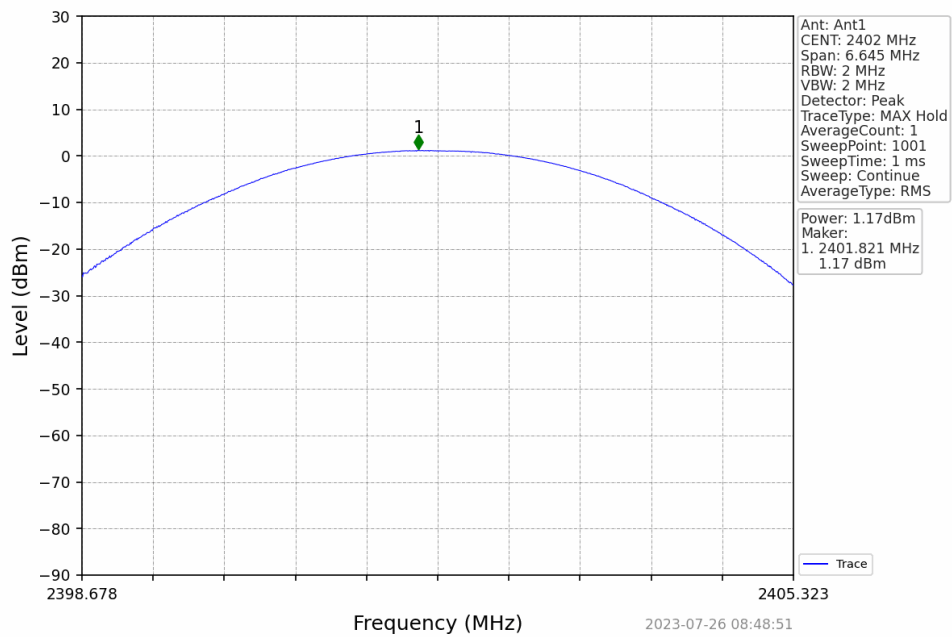
## 1.2 Test Graphs



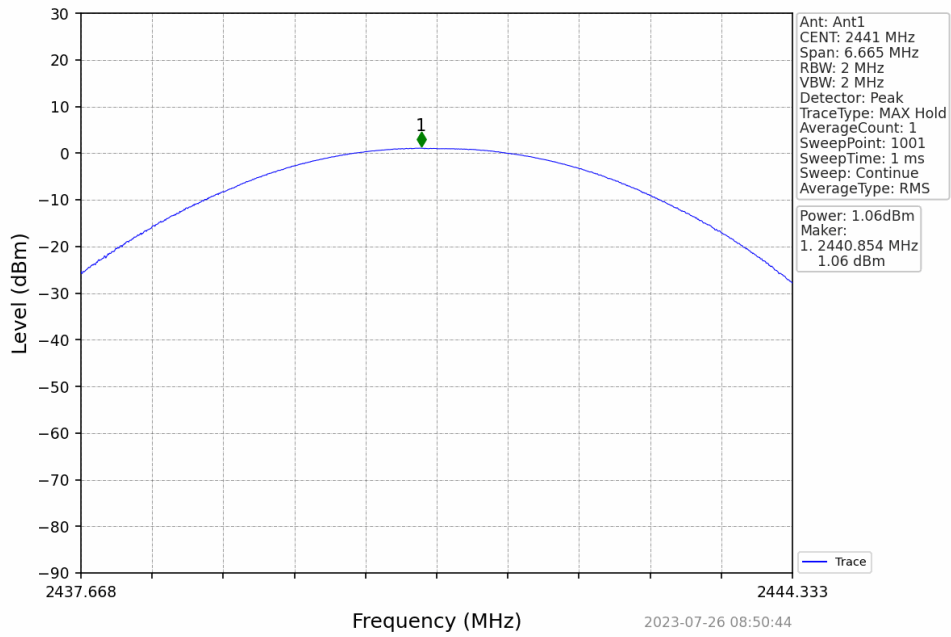
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



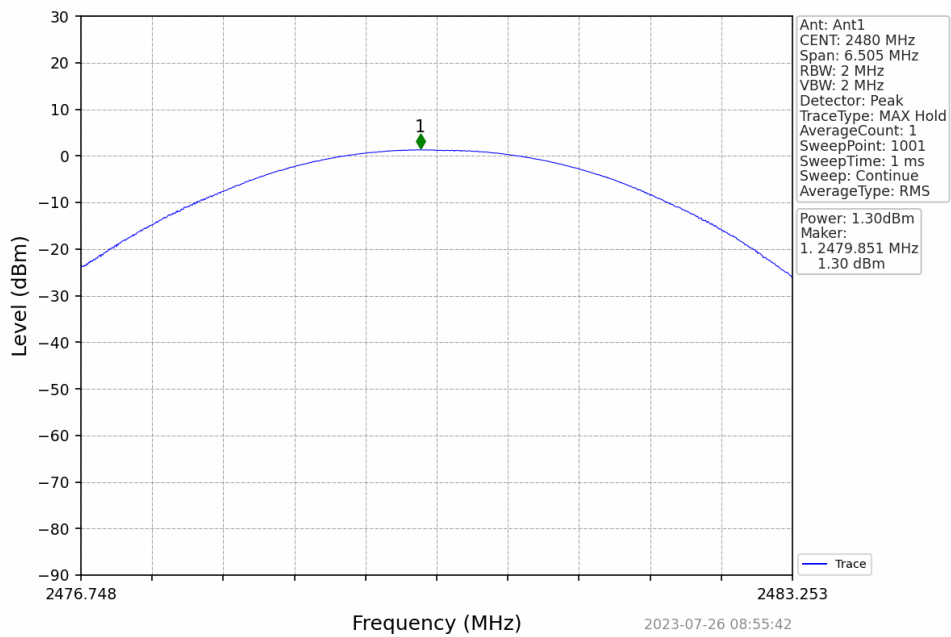
$\pi/4$ -DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

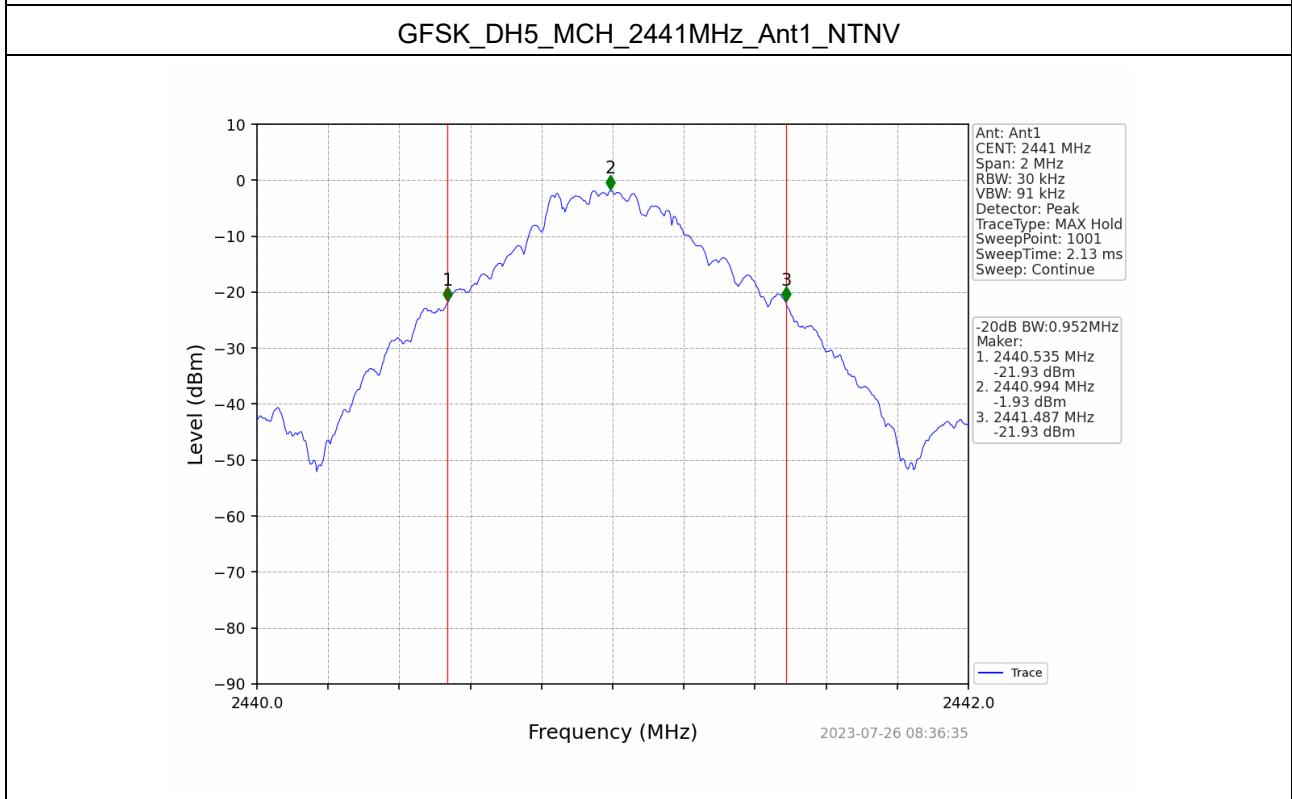
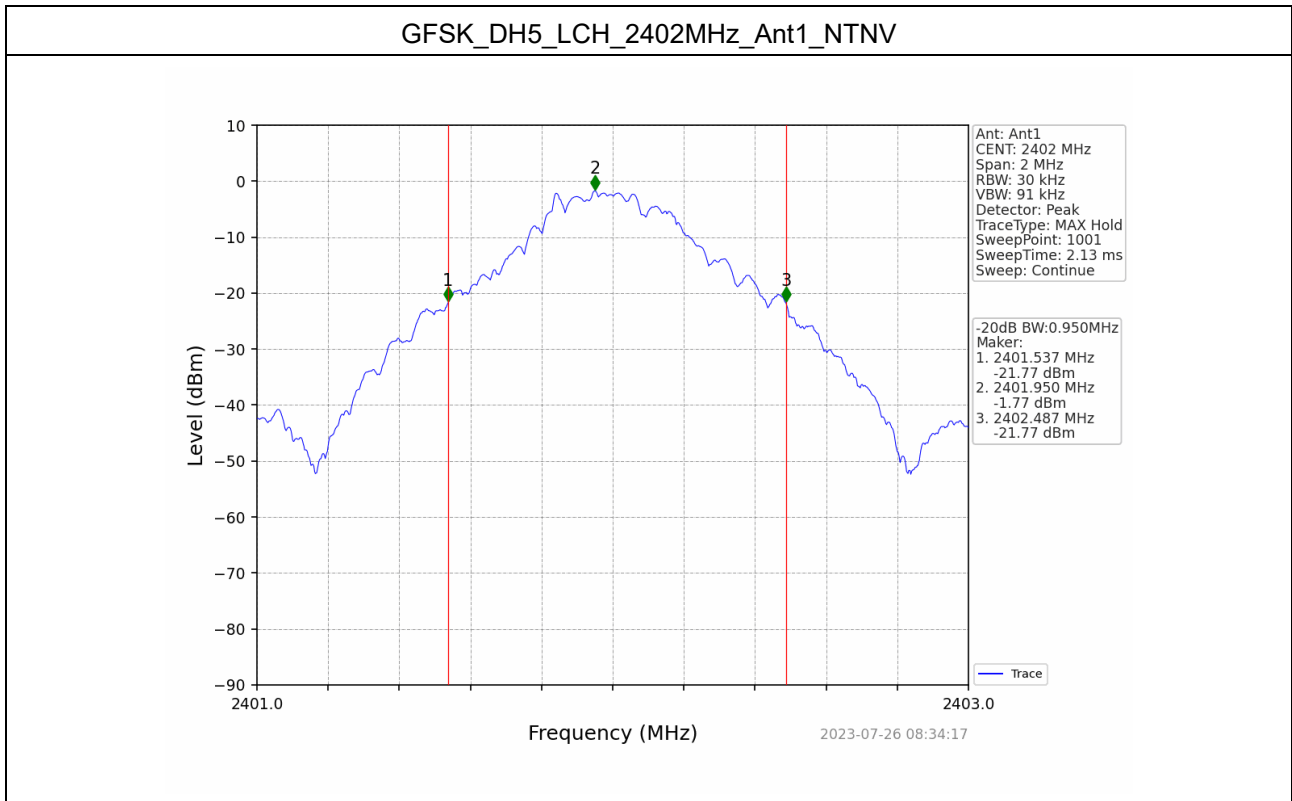


## 2 20dB Bandwidth

### 2.1 Test Result

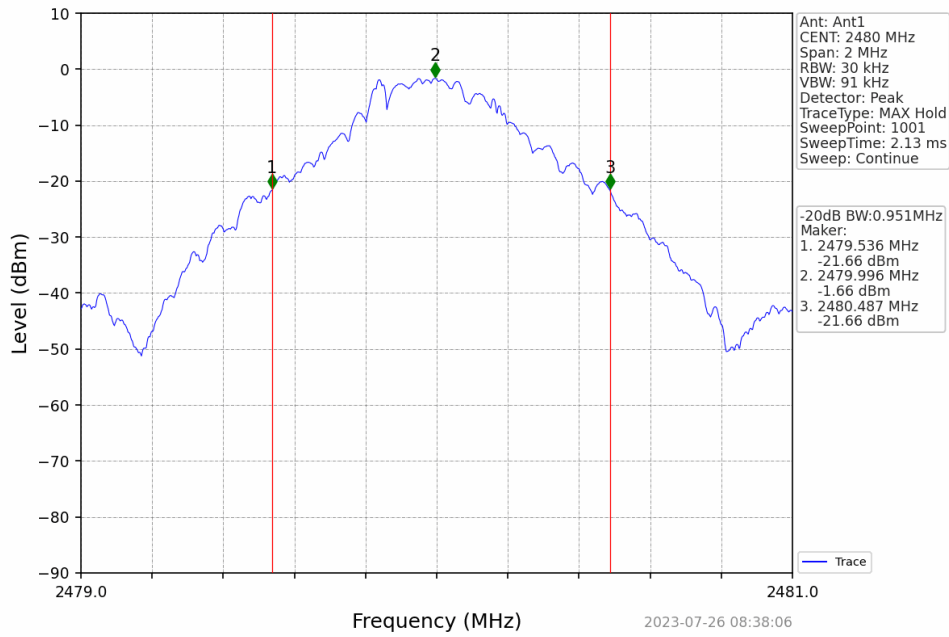
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.950	Not Specified	Pass
	MCH	0.952	Not Specified	Pass
	HCH	0.951	Not Specified	Pass
$\pi/4$ -DQPSK	LCH	1.329	Not Specified	Pass
	MCH	1.333	Not Specified	Pass
	HCH	1.301	Not Specified	Pass

## 2.2 Test Graphs

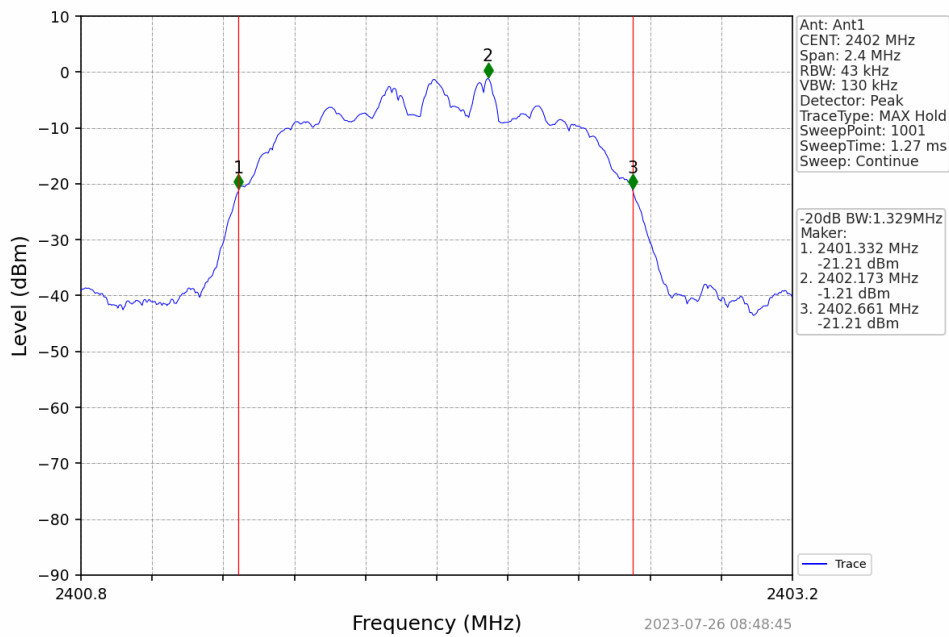




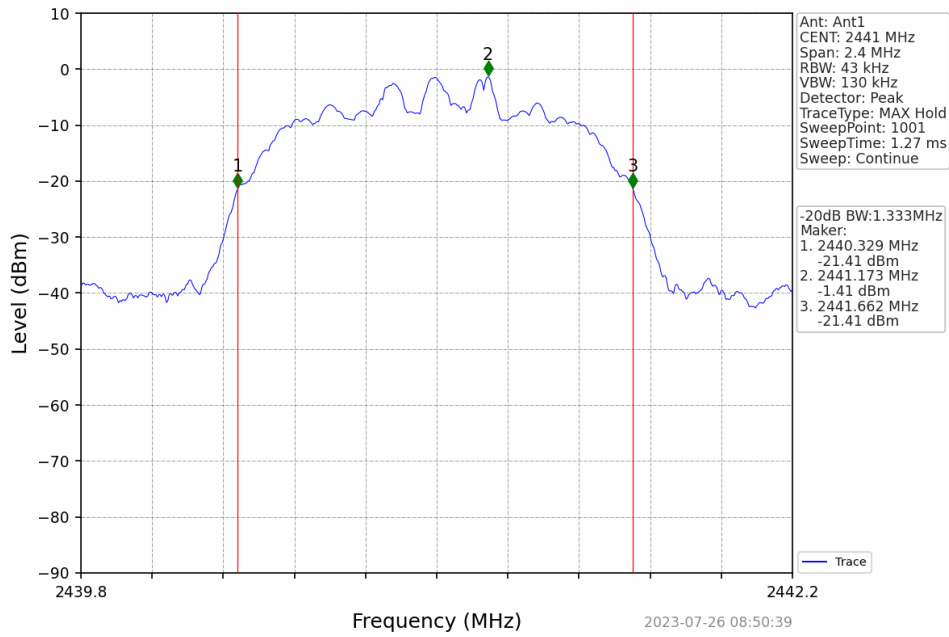
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



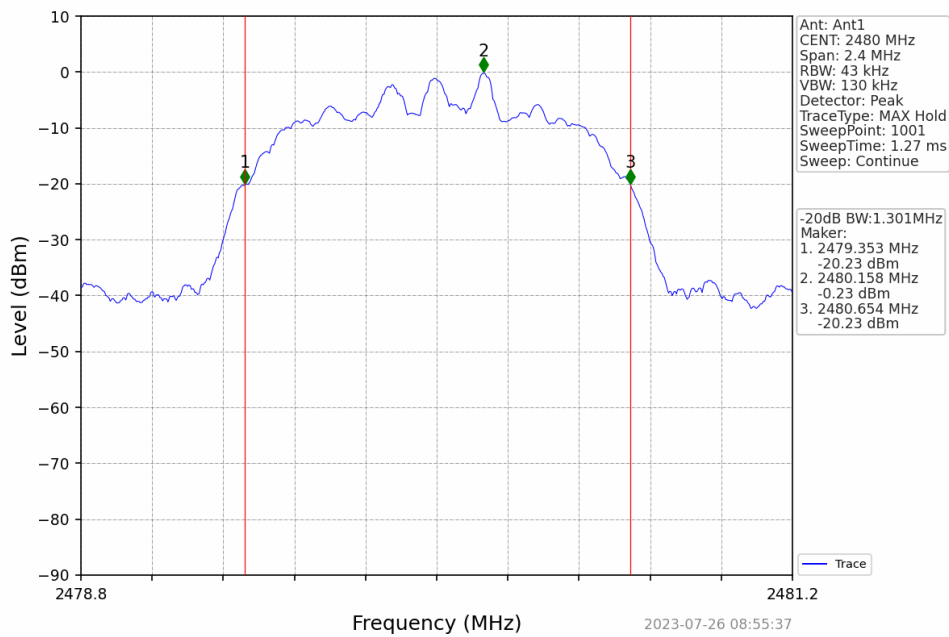
$\pi/4$ -DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

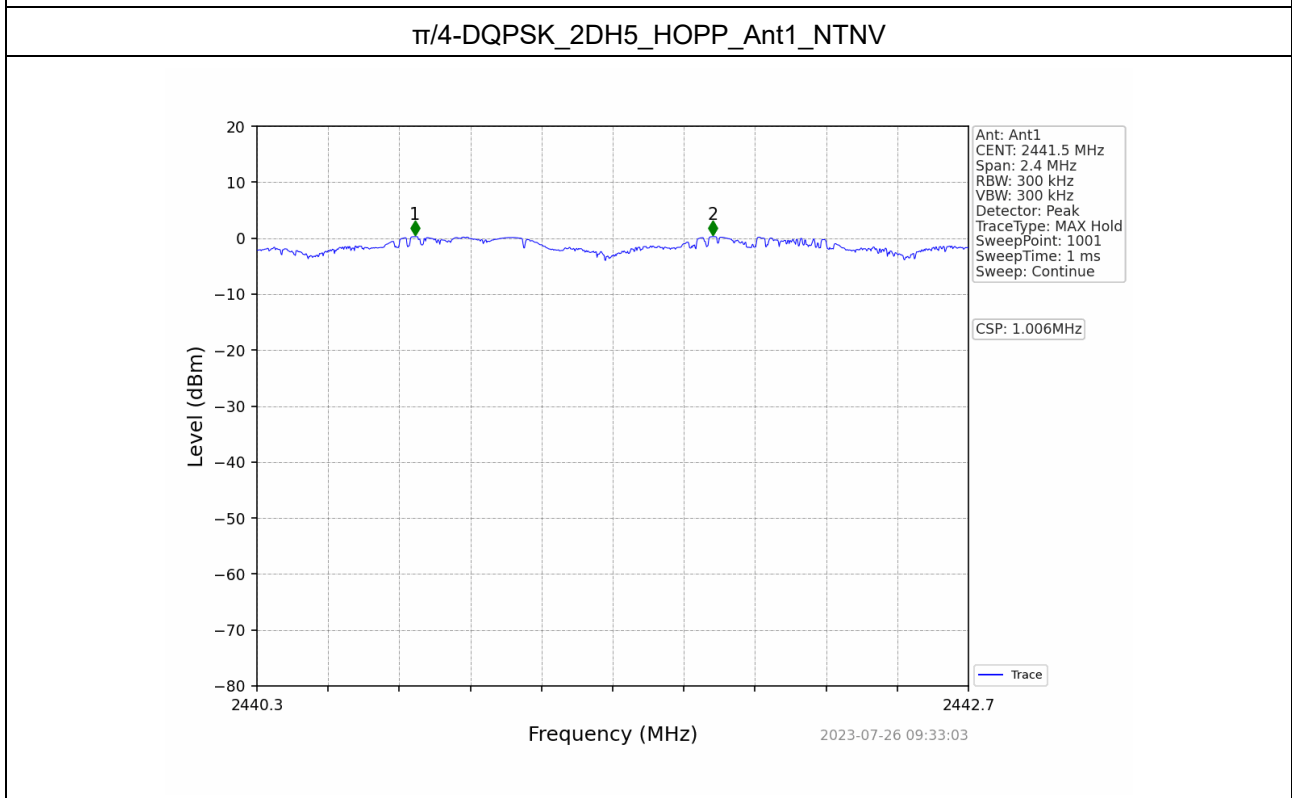
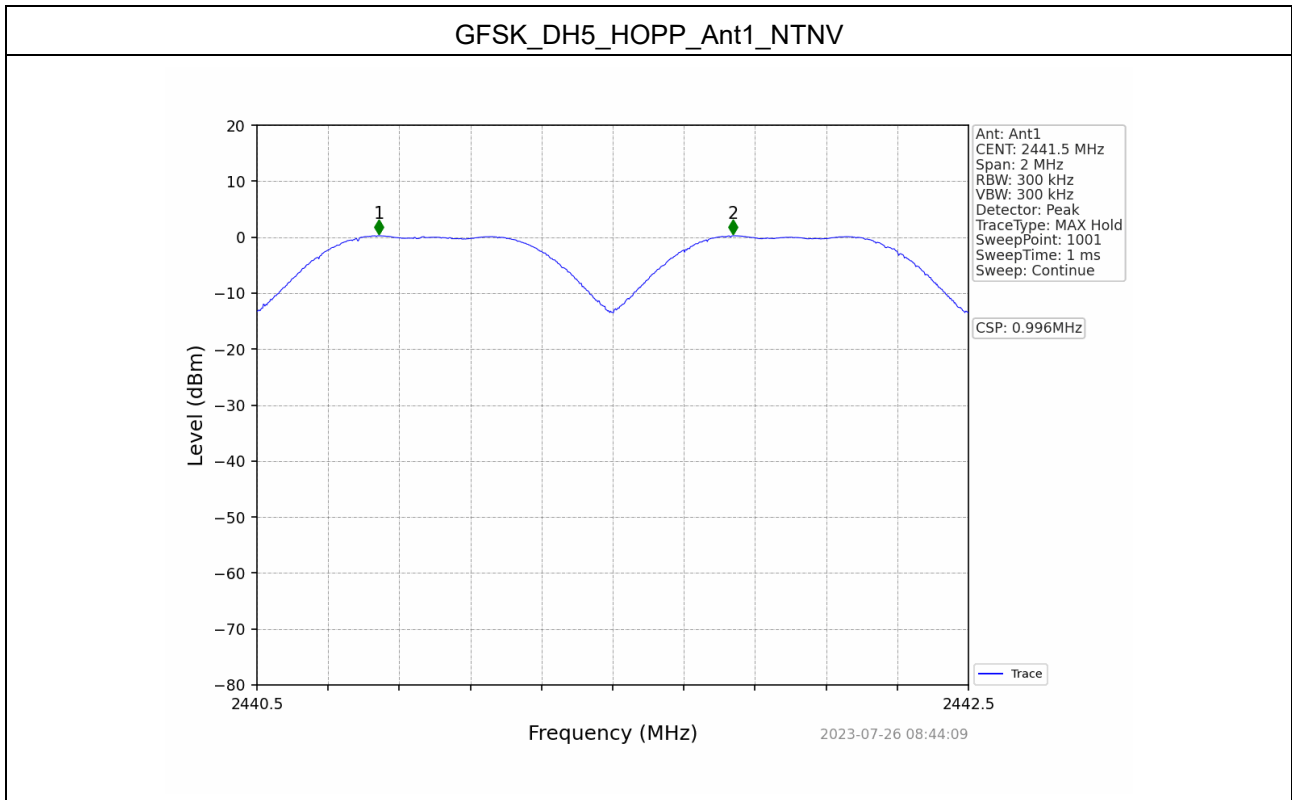


### 3 Carrier Frequency Separation

#### 3.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	20dB Bandwidth (MHz)	Limit [MHz]	Verdict
GFSK	MCH	0.996	0.952	$\geq 0.952$	Pass
$\pi/4$ -DQPSK	MCH	1.006	1.333	$\geq 0.889$	Pass

### 3.2 Test Graphs

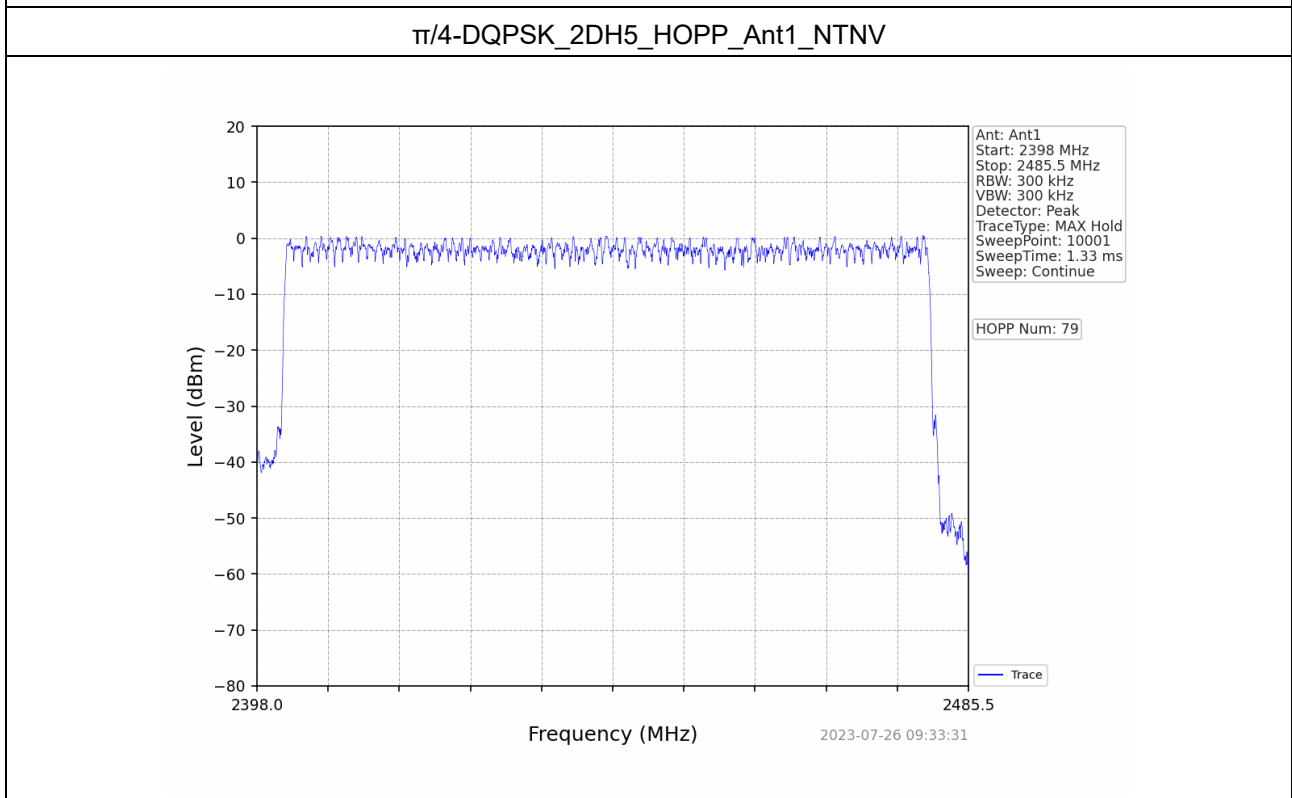
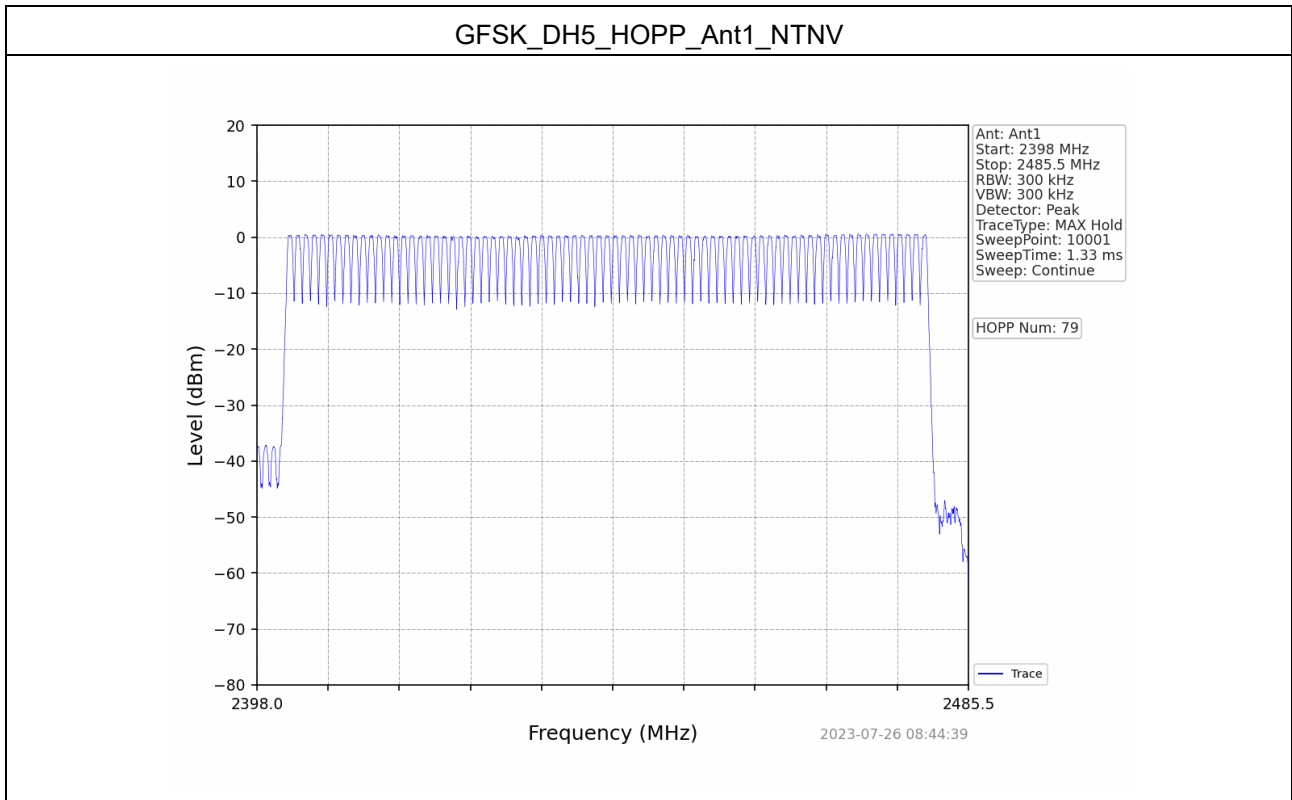


## 4 Hopping Channel Number

### 4.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	$\geq 15$	PASS
$\pi/4$ -DQPSK	Hop	79	$\geq 15$	PASS

## 4.2 Test Graphs

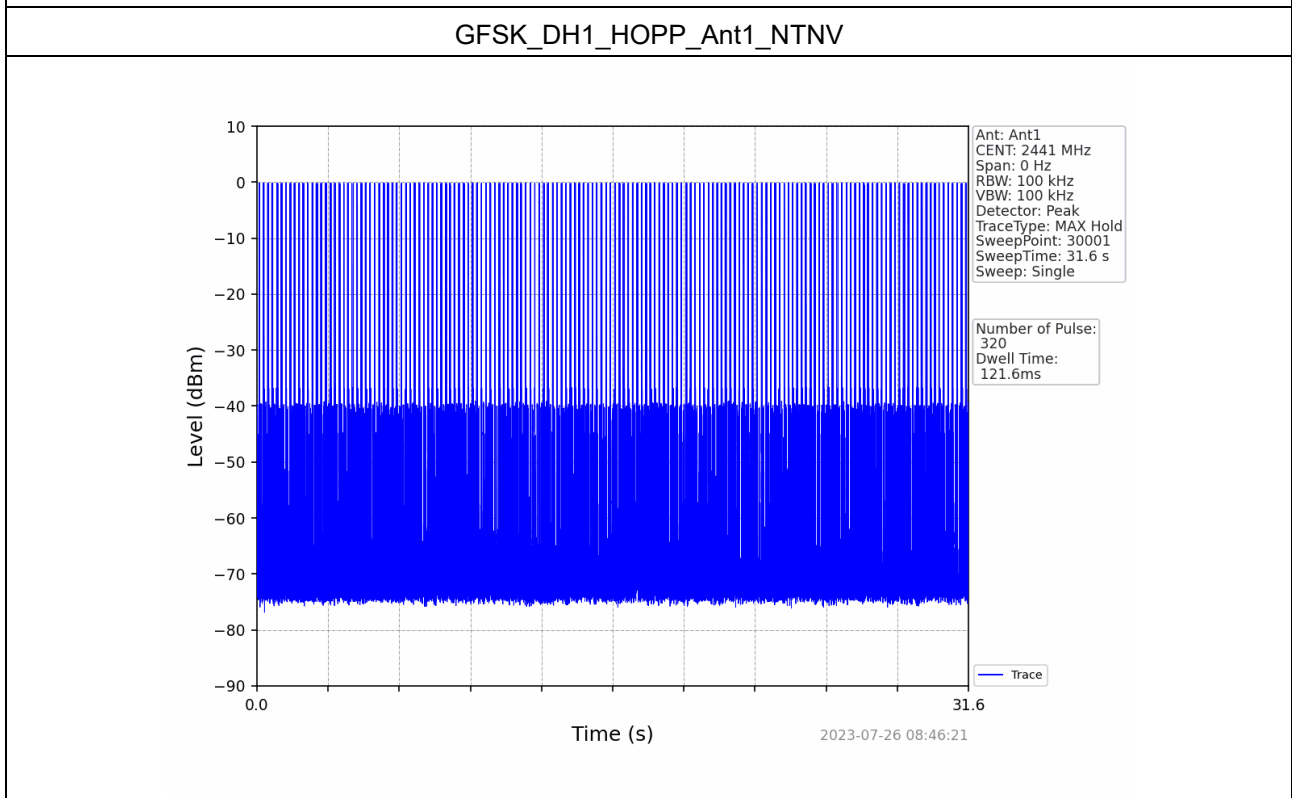
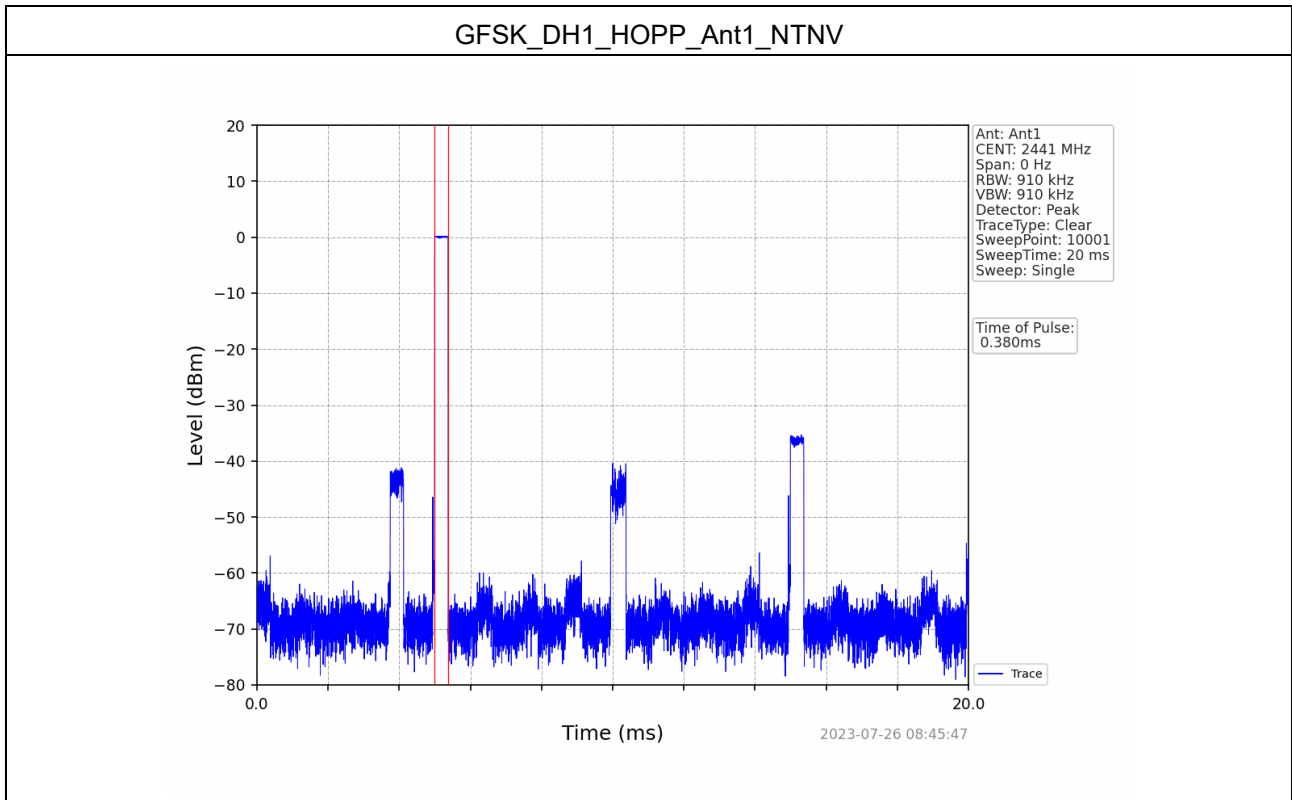


## 5 Dwell Time

### 5.1 Test Result

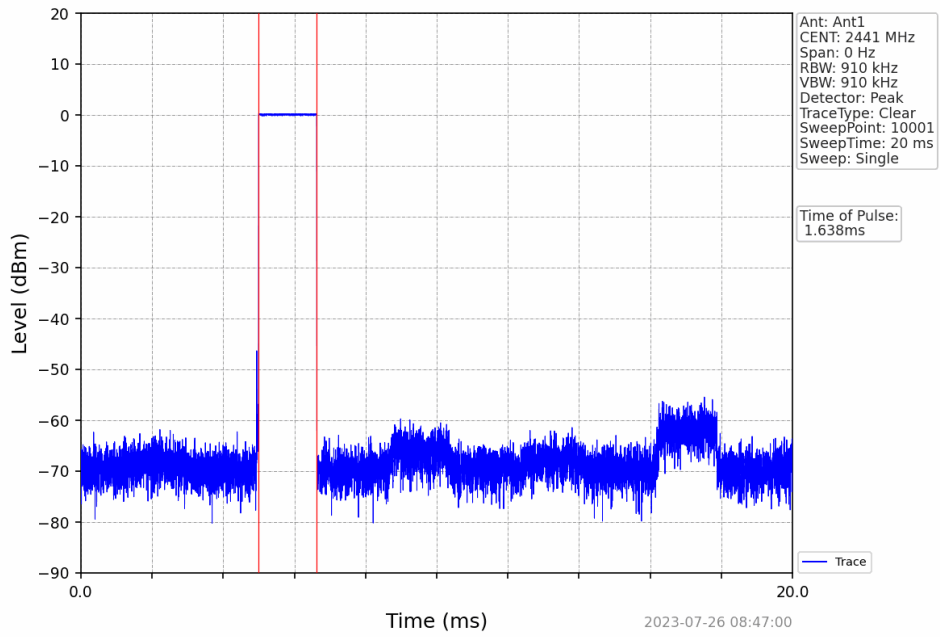
Mode	Packet	Channel	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	DH5	LCH	0.380	31.600	320	121.600	<=400	Pass
		MCH	1.638	31.600	100	163.800	<=400	Pass
		HCH	2.884	31.600	62	178.808	<=400	Pass
$\pi/4$ -DQPSK	2DH5	LCH	0.390	31.600	320	124.800	<=400	Pass
		MCH	1.644	31.600	97	159.468	<=400	Pass
		HCH	2.890	31.600	67	193.630	<=400	Pass

## 5.2 Test Graphs

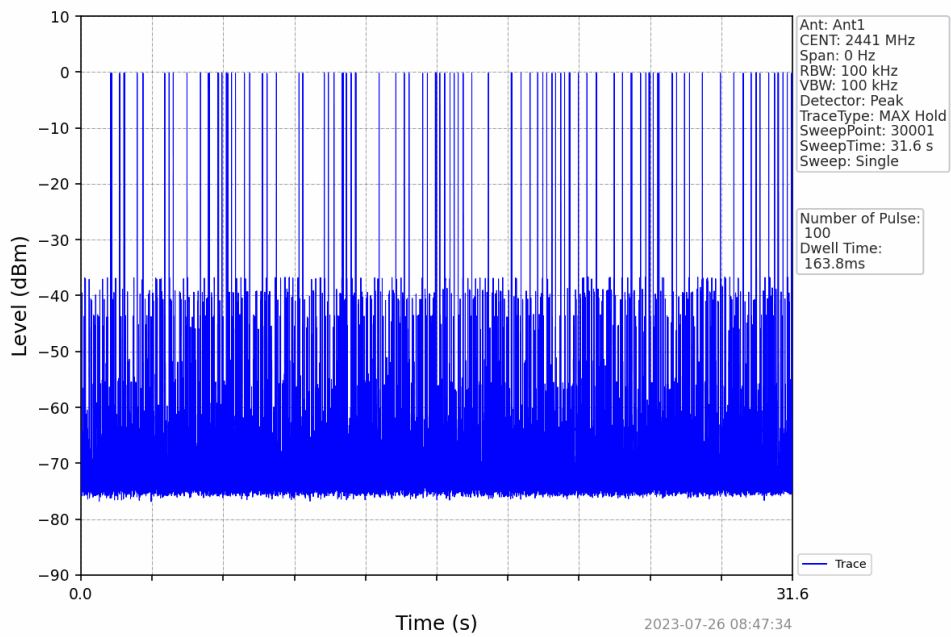




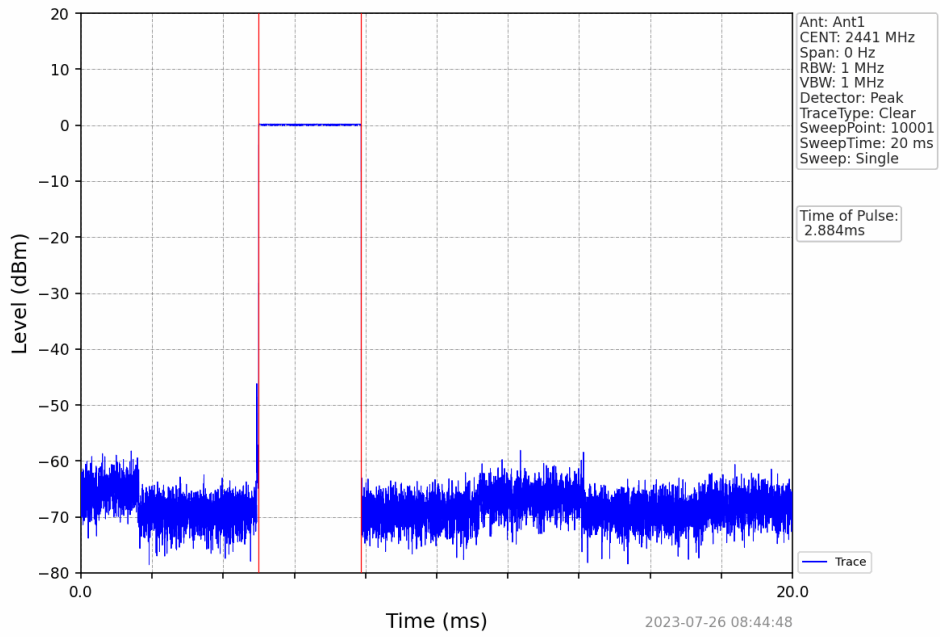
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



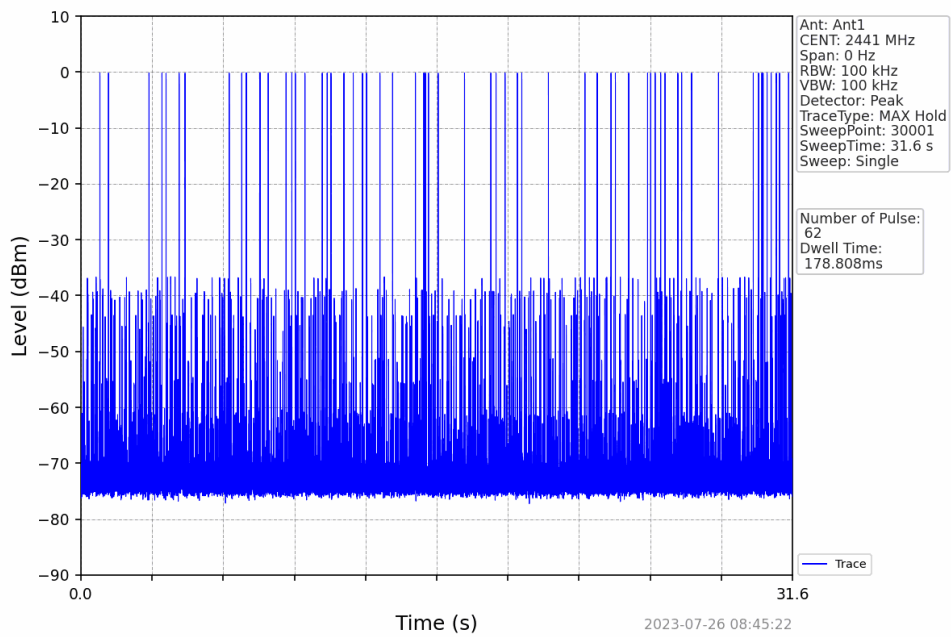
### GFSK\_DH3\_HOPP\_Ant1\_NTNV



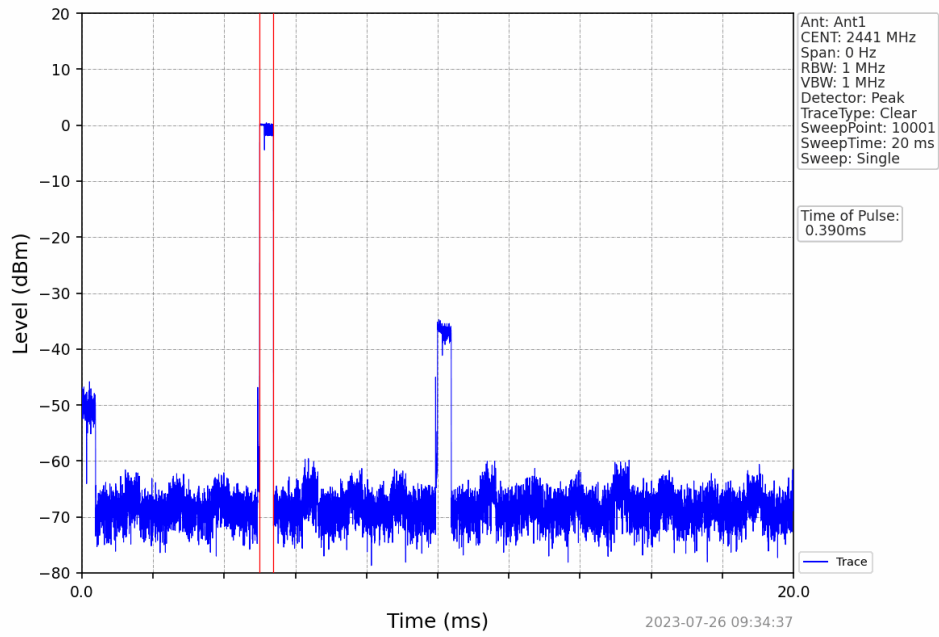
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



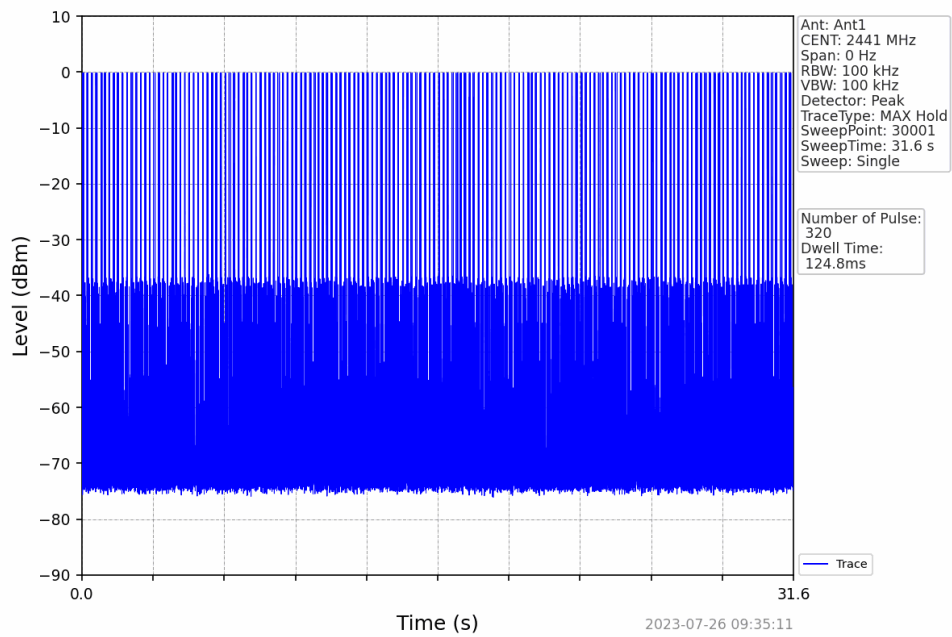
### GFSK\_DH5\_HOPP\_Ant1\_NTNV



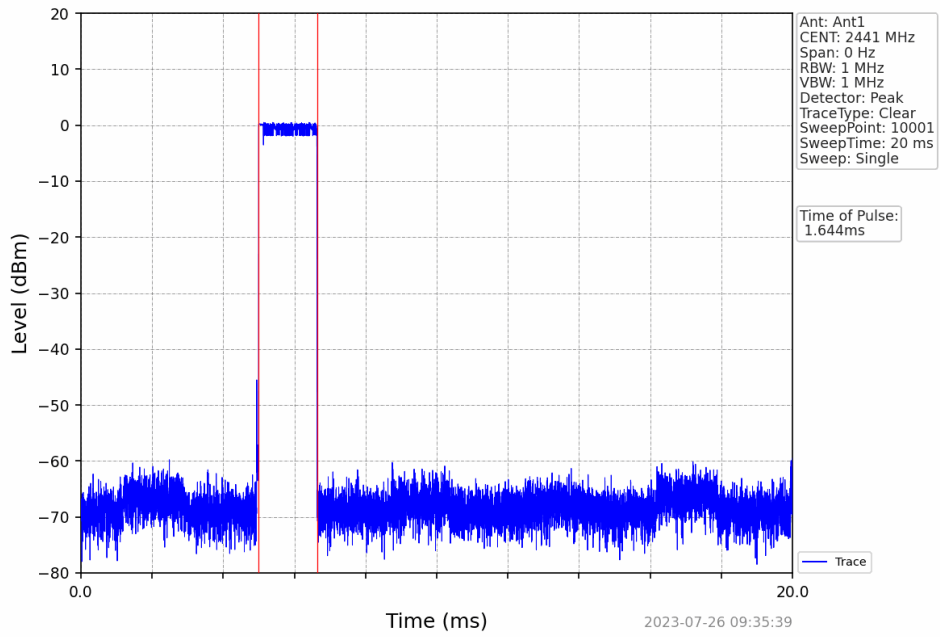
$\pi/4$ -DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



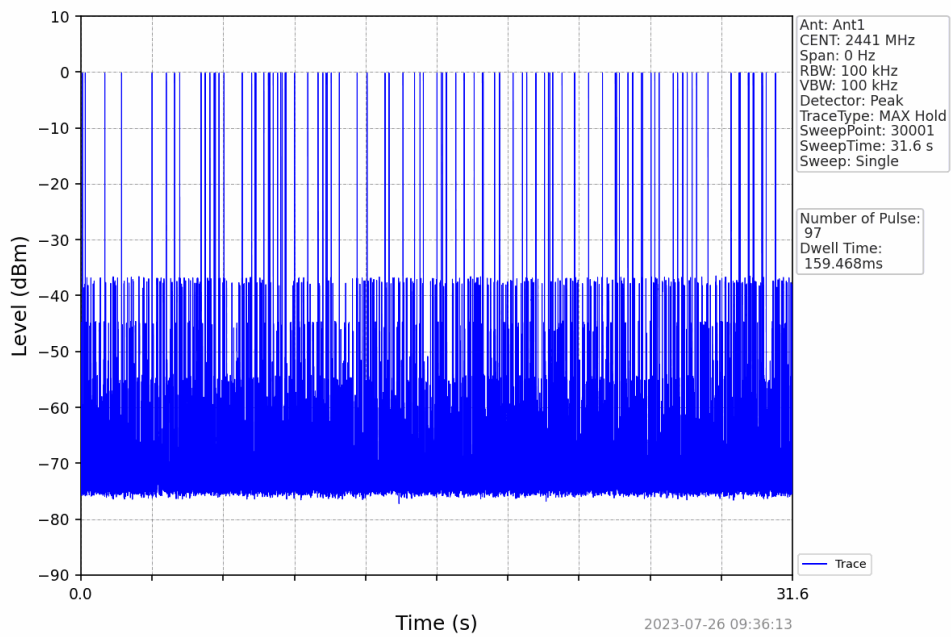
$\pi/4$ -DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



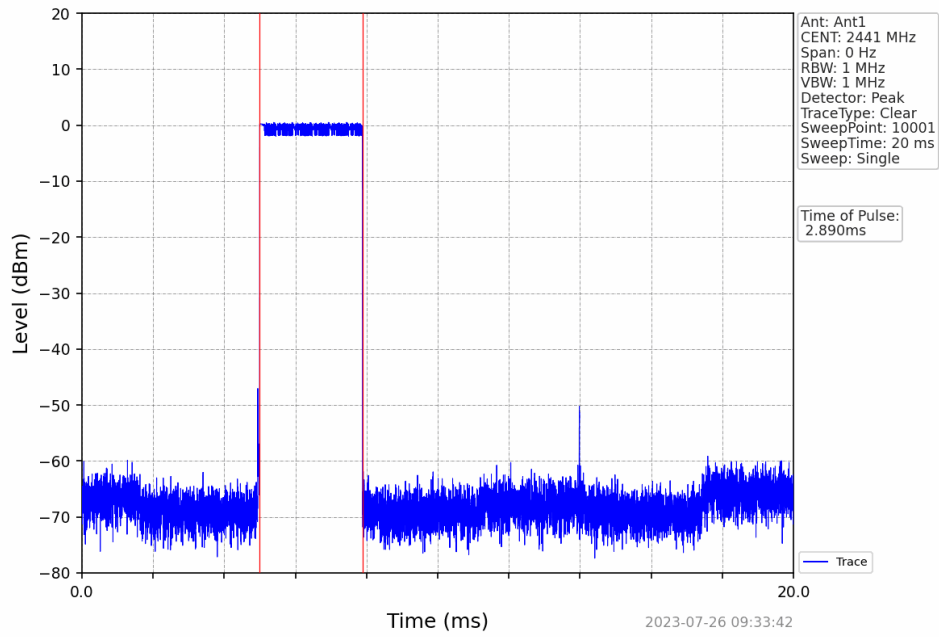
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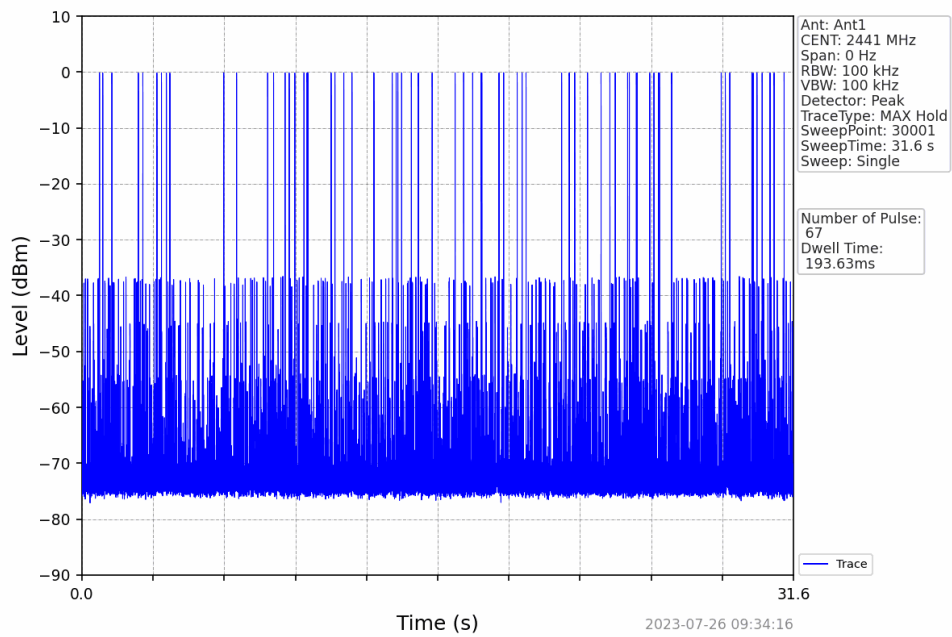
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$\pi/4$ -DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



## 6 Conducted Spurious Emissions and Band Edges Test

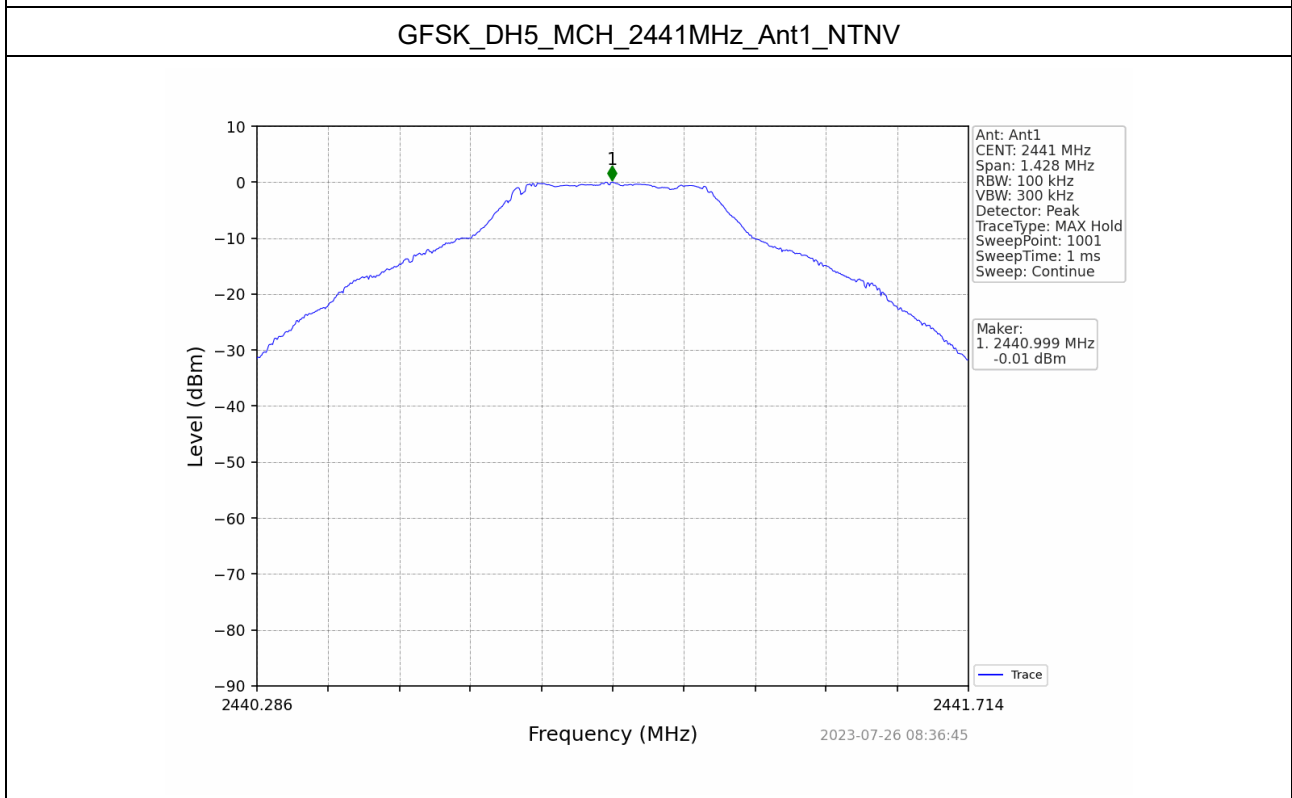
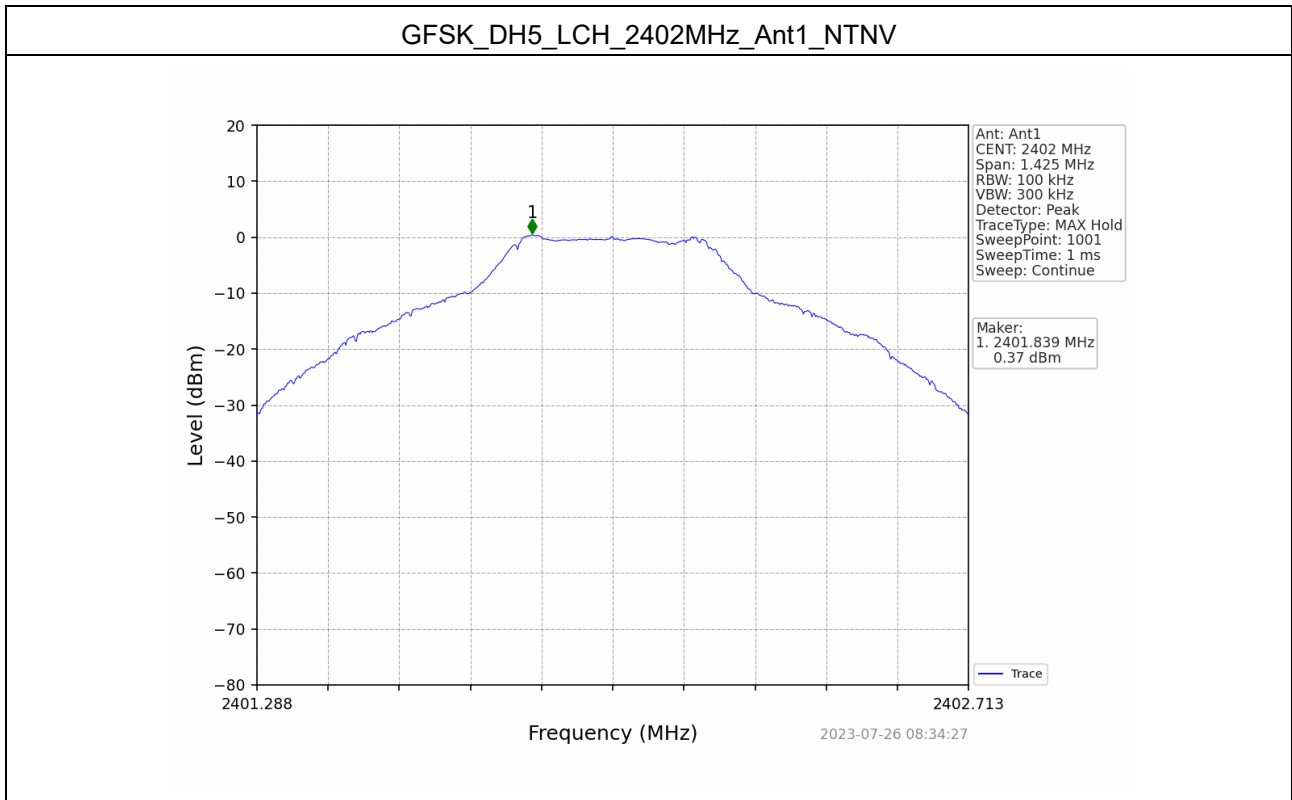
### 6.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	0.37	-20	Pass
	MCH	-0.01	-20	Pass
	HCH	0.52	-20	Pass
$\pi/4$ -DQPSK	LCH	0.19	-20	Pass
	MCH	0.16	-20	Pass
	HCH	0.40	-20	Pass

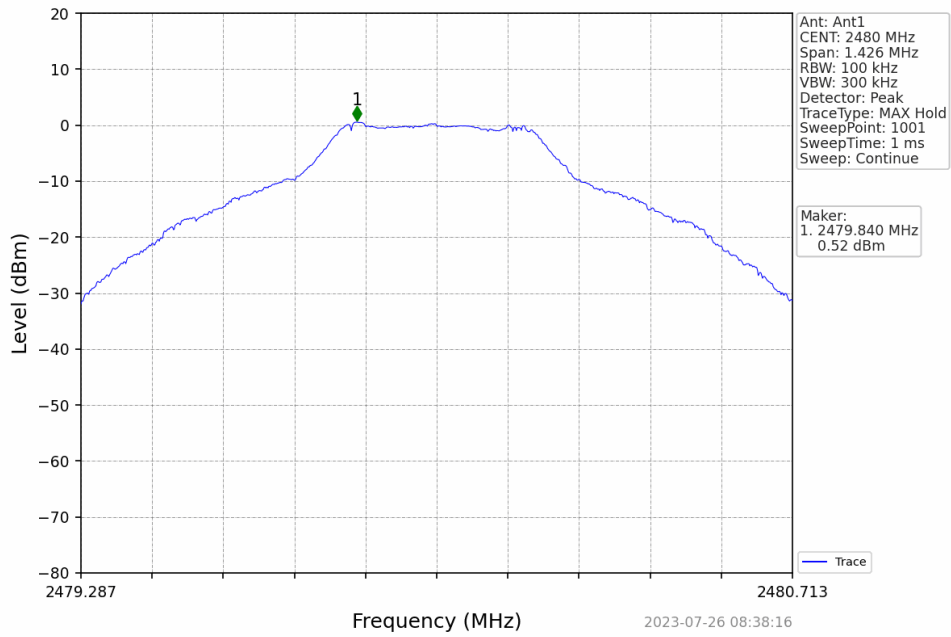
Mode	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	2402	DH5	1	0.52	-19.48	Pass
	2441	DH5	1	0.52	-19.48	Pass
	2480	DH5	1	0.52	-19.48	Pass
	HOPP	DH5	1	0.52	-19.48	Pass
$\pi/4$ -DQPSK	2402	2DH5	1	0.40	-19.60	Pass
	2441	2DH5	1	0.40	-19.60	Pass
	2480	2DH5	1	0.40	-19.60	Pass
	HOPP	2DH5	1	0.40	-19.60	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.

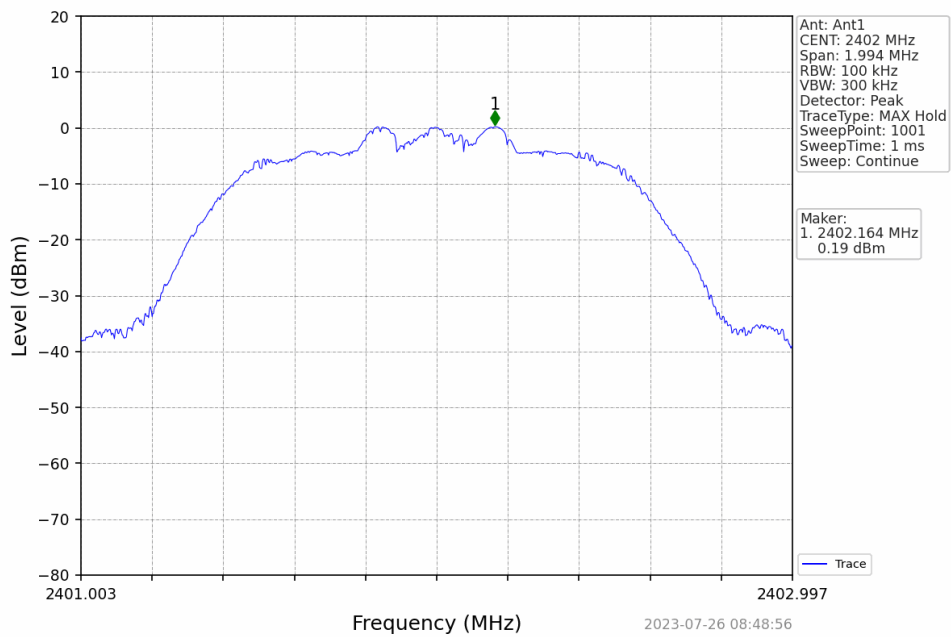
## 6.2 Test Graphs



GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

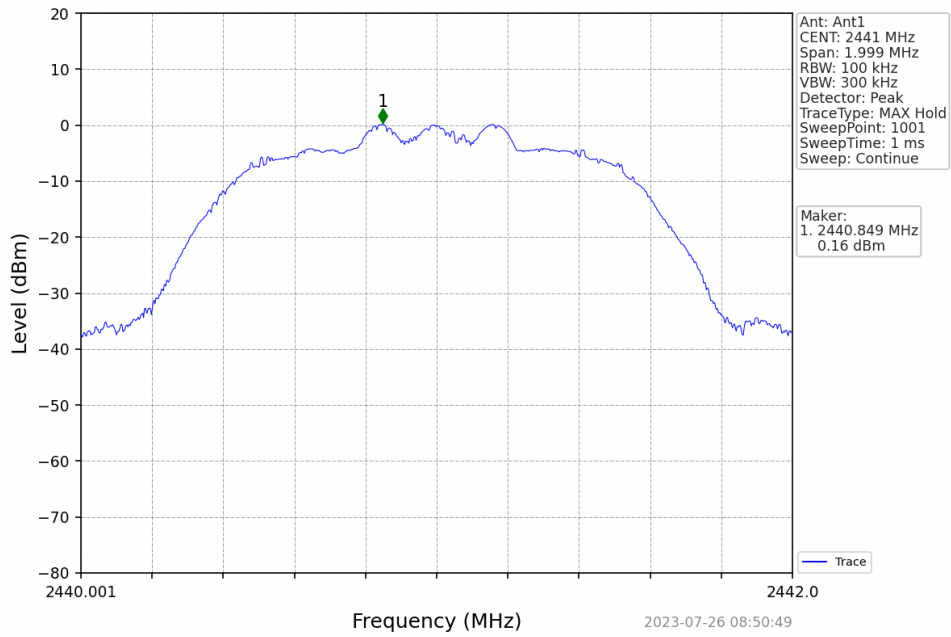


$\pi/4$ -DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV

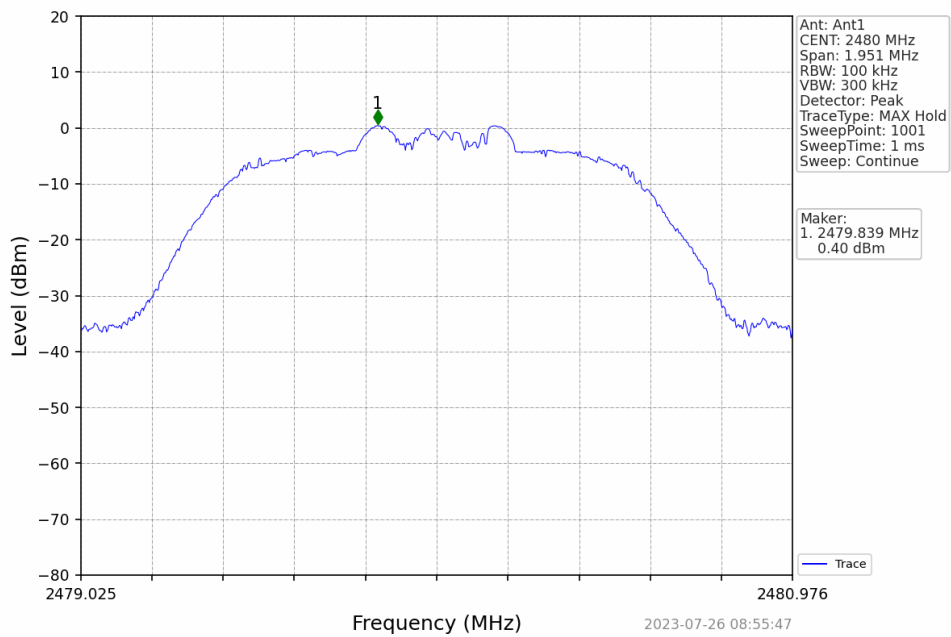




$\pi/4$ -DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV

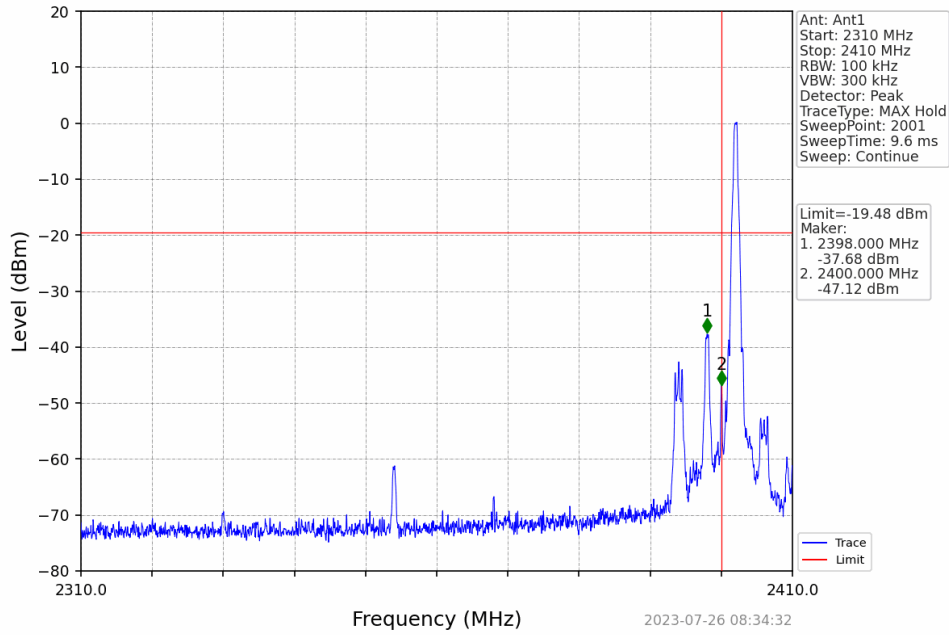


$\pi/4$ -DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV

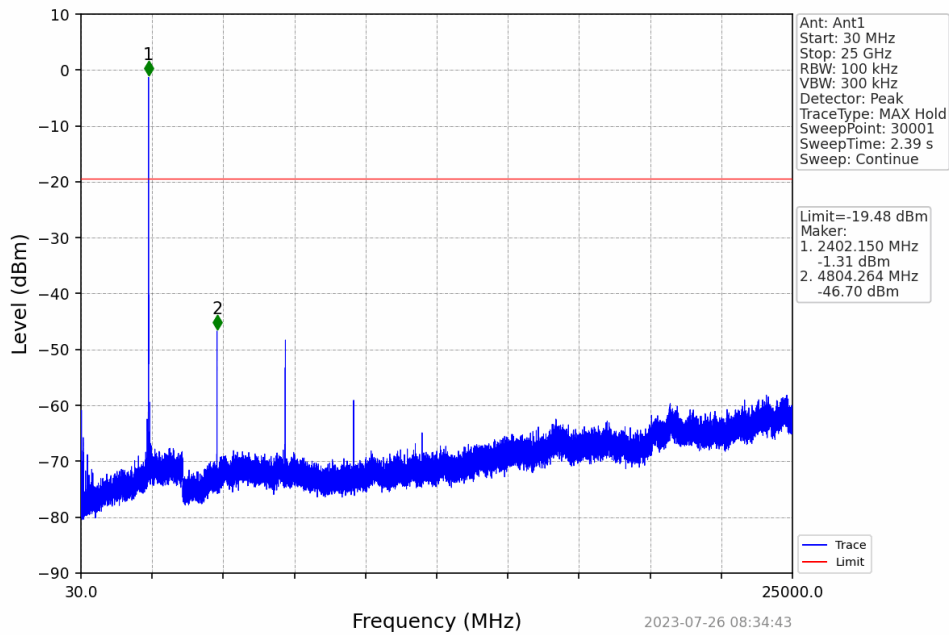


CSE

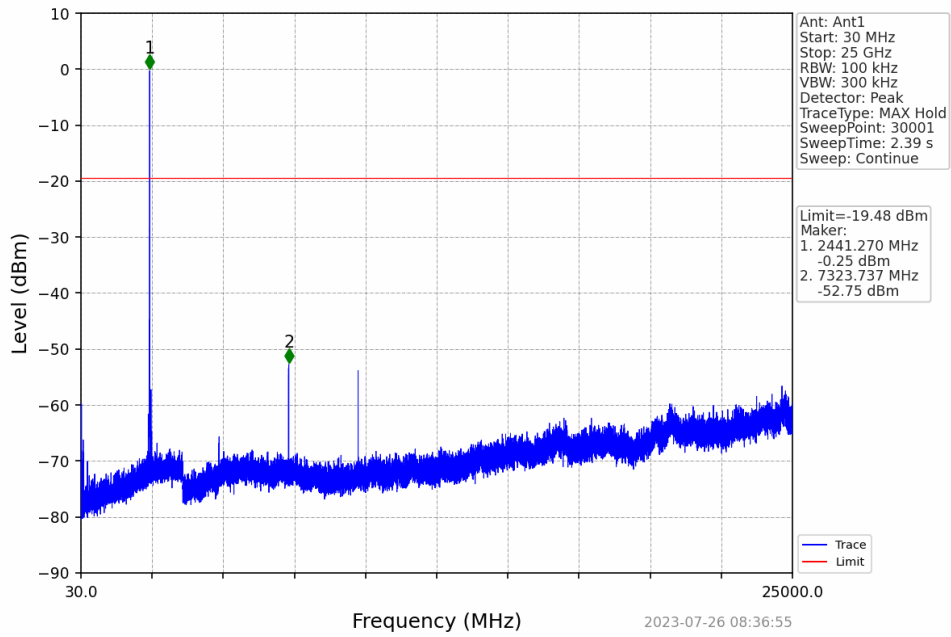
GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



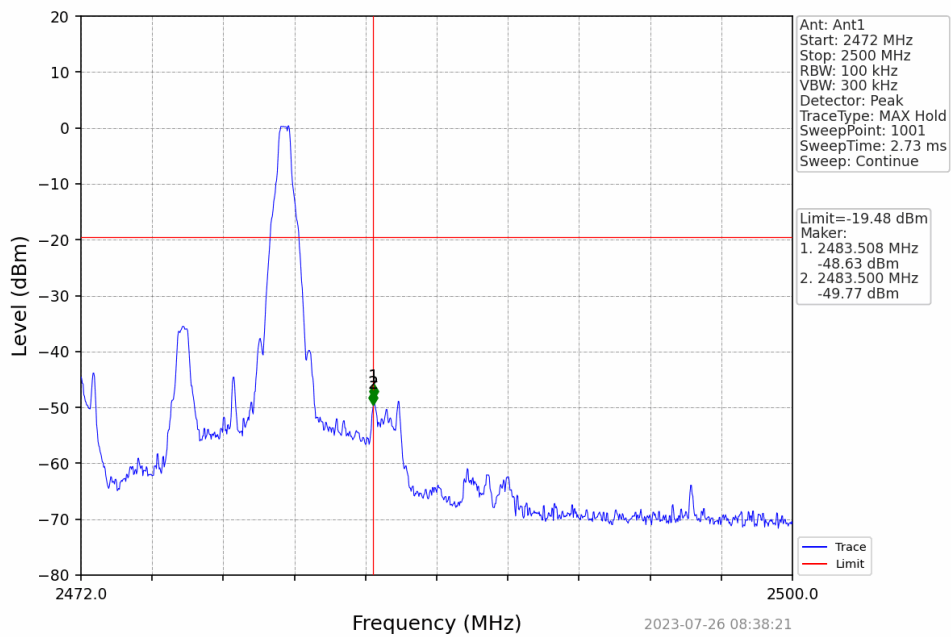
GFSK\_DH5\_LCH\_2402MHz\_Ant1\_NTNV



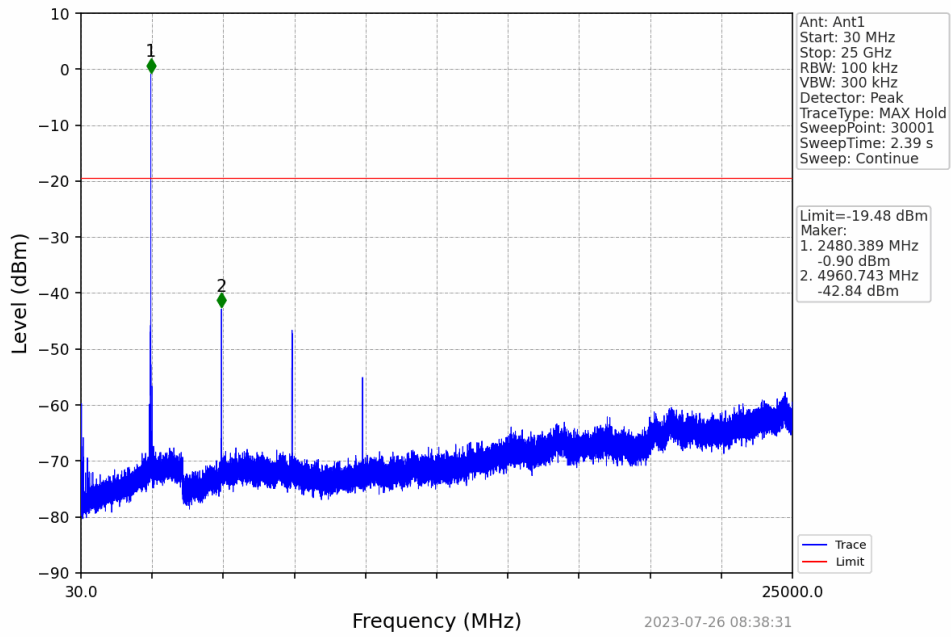
GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



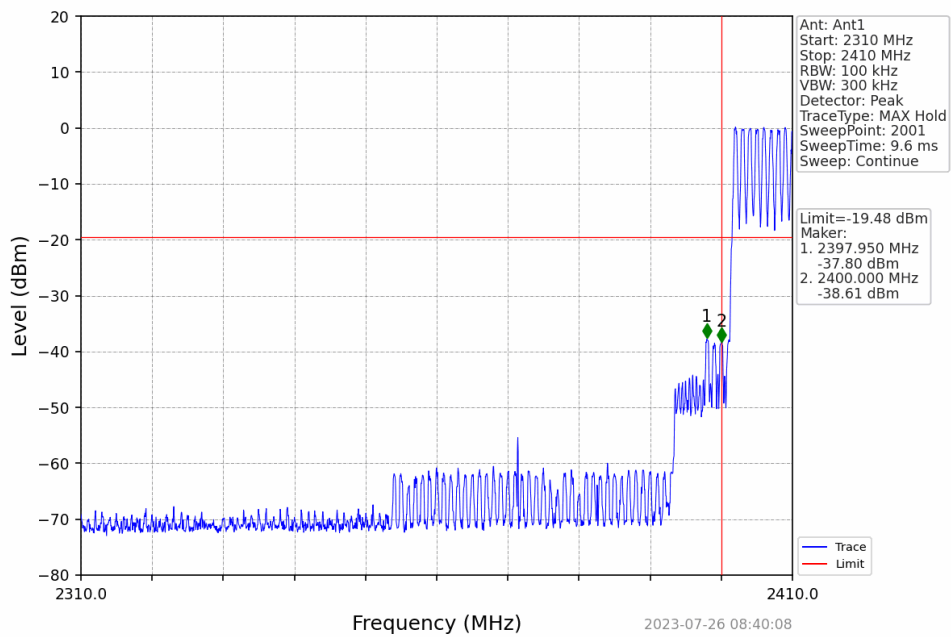
GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

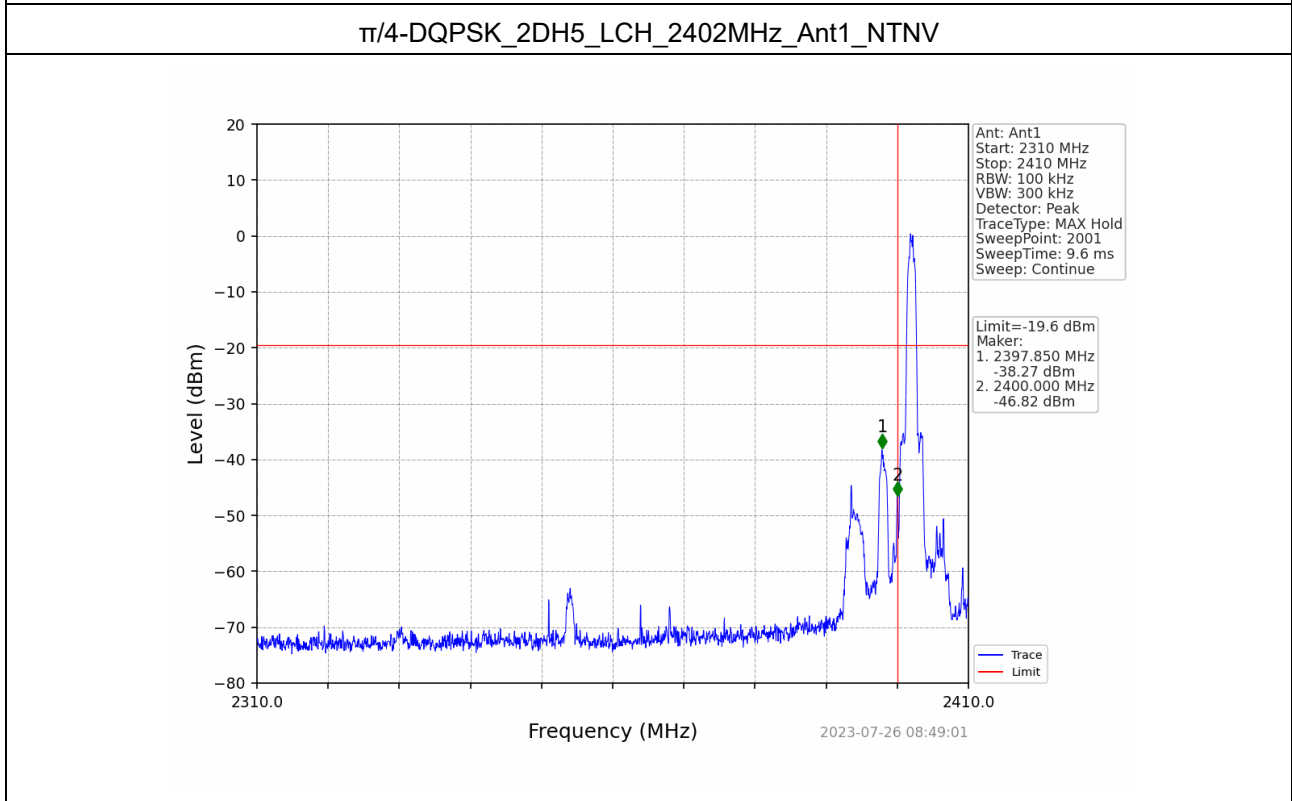
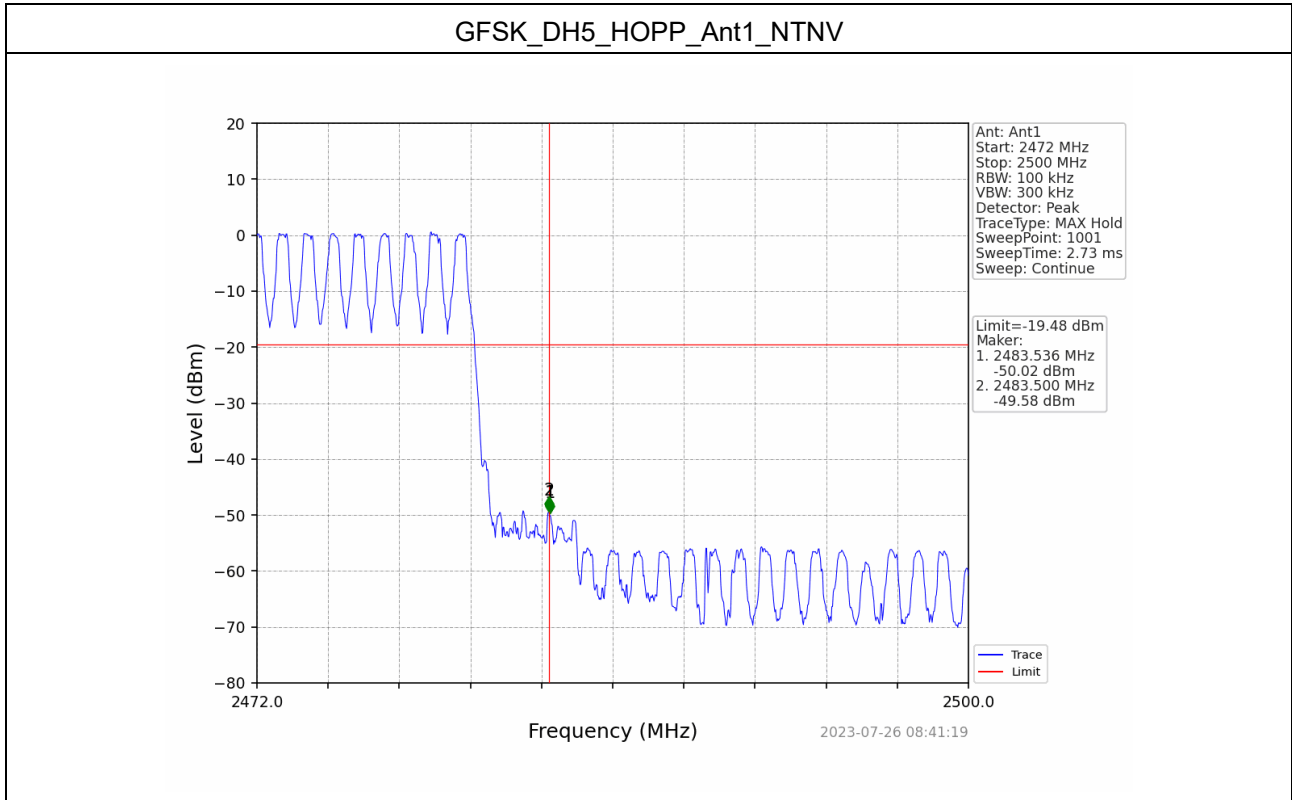


GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV

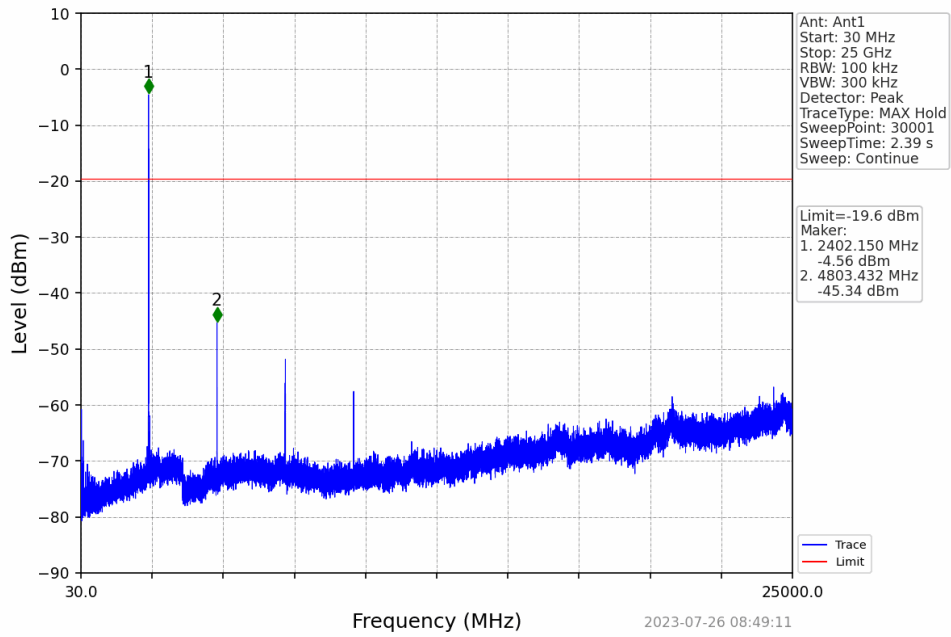


GFSK\_DH5\_HOPP\_2410MHz\_Ant1\_NTNV

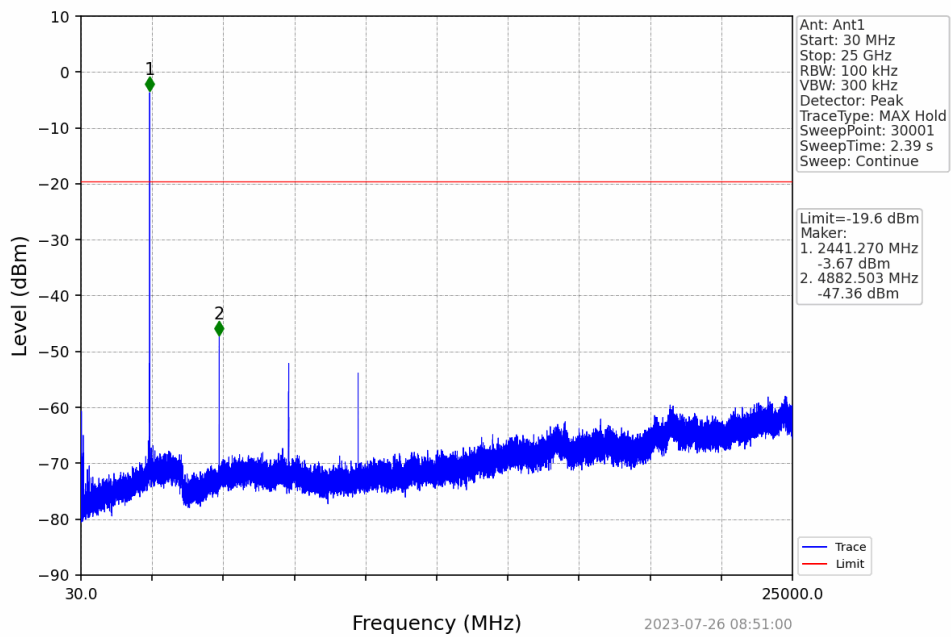




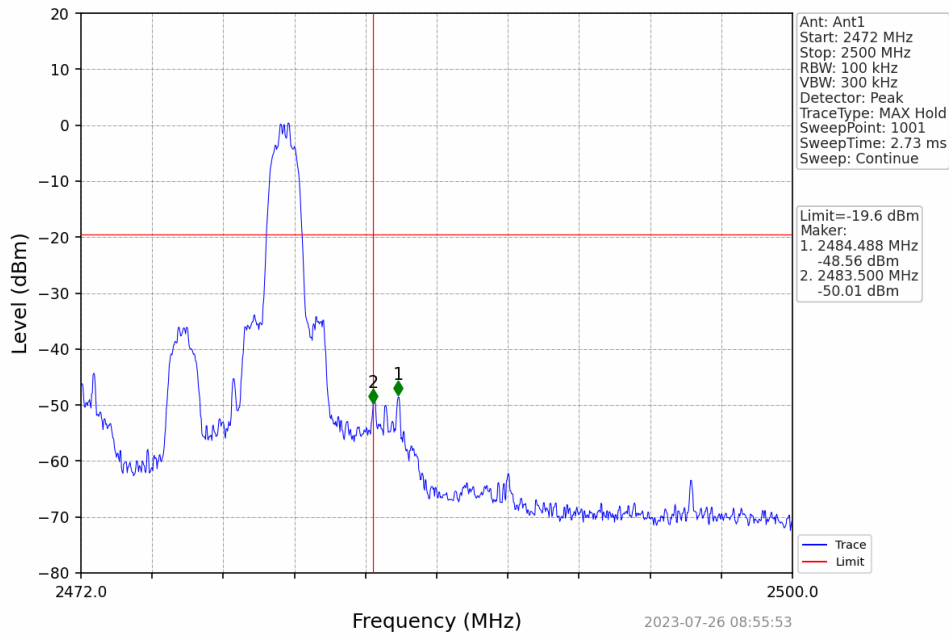
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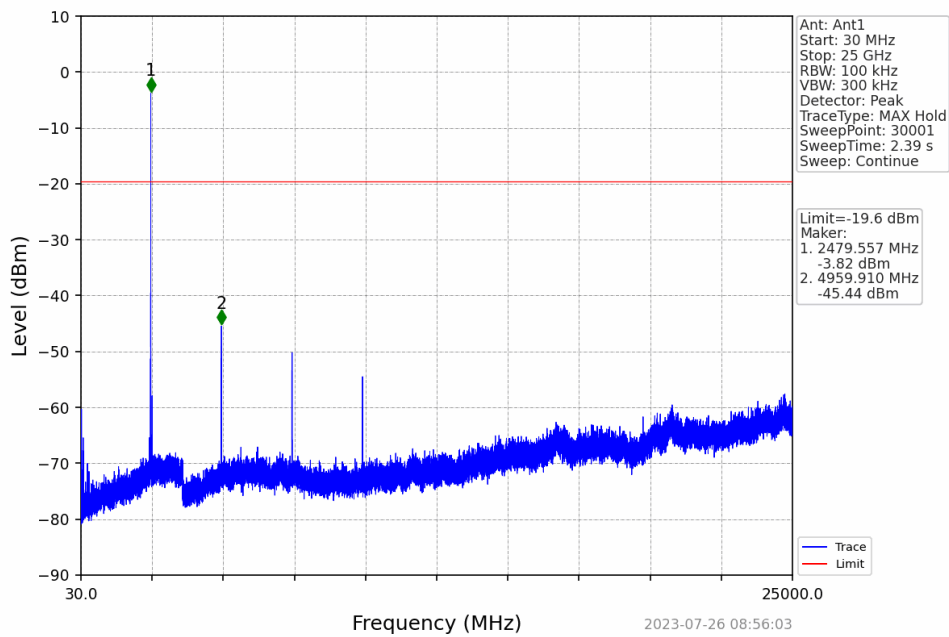
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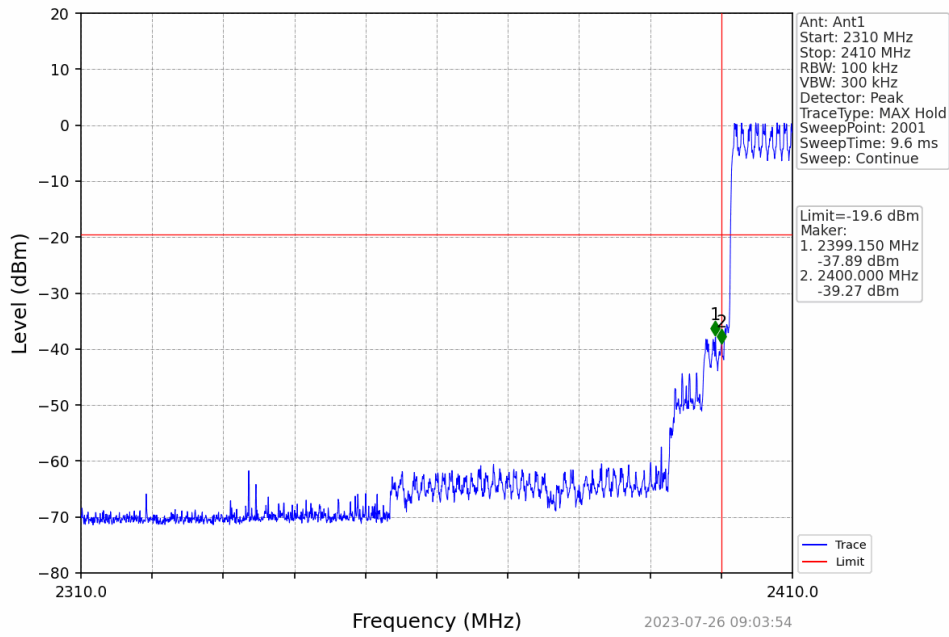
$\pi/4$ -DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



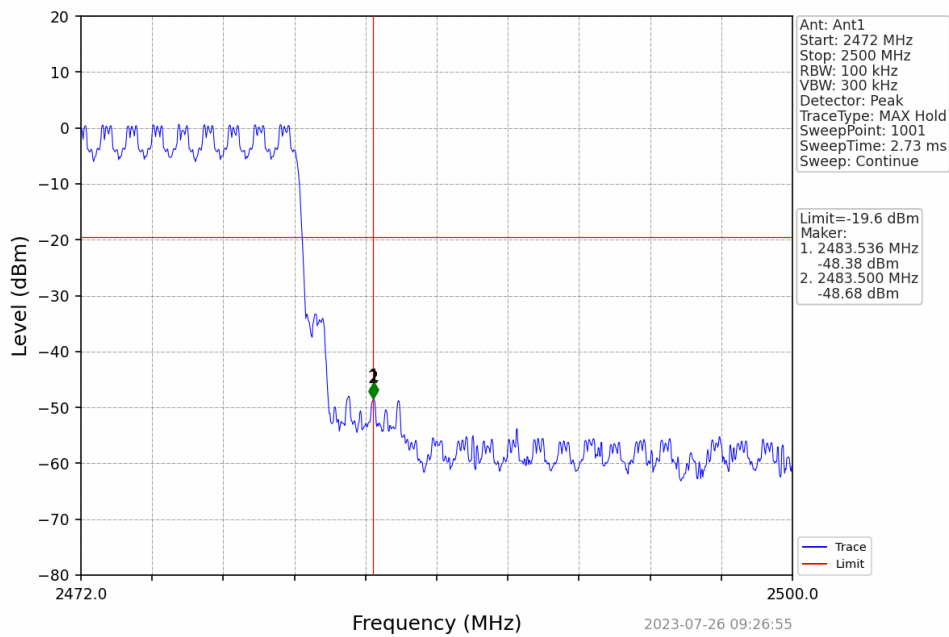
$\pi/4$ -DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



$\pi/4$ -DQPSK\_2DH5\_HOPP\_Ant1\_NTNV





## 7 Band-edge for RF Conducted Emissions

### 7.1 Test Result

Test Mode: GFKS										
Pol.	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detect or Type	Result
Low Channel: 2402MHz										
H	2390.00	46.90	29.15	3.41	34.01	45.45	74.00	-28.55	PK	PASS
H	2400.00	64.26	29.16	3.43	34.01	62.84	74.00	-11.16	PK	PASS
V	2390.00	47.83	29.15	3.41	34.01	46.38	74.00	-27.62	PK	PASS
V	2400.00	66.73	29.16	3.43	34.01	65.31	74.00	-8.69	PK	PASS
H	2390.00	36.54	29.15	3.41	34.01	35.09	54.00	-18.91	AV	PASS
H	2400.00	48.01	29.16	3.43	34.01	46.59	54.00	-7.41	AV	PASS
V	2390.00	36.77	29.15	3.41	34.01	35.32	54.00	-18.68	AV	PASS
V	2400.00	50.05	29.16	3.43	34.01	48.63	54.00	-5.37	AV	PASS
High Channel: 2480MHz										
H	2483.50	49.48	29.28	3.53	34.03	48.26	74.00	-25.74	PK	PASS
H	2500.00	47.89	29.30	3.56	34.03	46.72	74.00	-27.28	PK	PASS
V	2483.50	50.99	29.28	3.53	34.03	49.77	74.00	-24.23	PK	PASS
V	2500.00	49.27	29.30	3.56	34.03	48.10	74.00	-25.90	PK	PASS
H	2483.50	39.41	29.28	3.53	34.03	38.19	54.00	-15.81	AV	PASS
H	2500.00	36.84	29.30	3.56	34.03	35.67	54.00	-18.33	AV	PASS
V	2483.50	40.96	29.28	3.53	34.03	39.74	54.00	-14.26	AV	PASS
V	2500.00	37.10	29.30	3.56	34.03	35.93	54.00	-18.07	AV	PASS



Test Mode: $\pi/4$ -DQPSK										
Pol.	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detect or Type	Result
Low Channel: 2402MHz										
H	2390.00	47.15	29.15	3.41	34.01	45.70	74.00	-28.30	PK	PASS
H	2400.00	64.55	29.16	3.43	34.01	63.13	74.00	-10.87	PK	PASS
V	2390.00	48.10	29.15	3.41	34.01	46.65	74.00	-27.35	PK	PASS
V	2400.00	67.04	29.16	3.43	34.01	65.62	74.00	-8.38	PK	PASS
H	2390.00	36.73	29.15	3.41	34.01	35.28	54.00	-18.72	AV	PASS
H	2400.00	48.22	29.16	3.43	34.01	46.80	54.00	-7.20	AV	PASS
V	2390.00	36.98	29.15	3.41	34.01	35.53	54.00	-18.47	AV	PASS
V	2400.00	50.28	29.16	3.43	34.01	48.86	54.00	-5.14	AV	PASS
High Channel: 2480MHz										
H	2483.50	49.76	29.28	3.53	34.03	48.54	74.00	-25.46	PK	PASS
H	2500.00	48.12	29.30	3.56	34.03	46.95	74.00	-27.05	PK	PASS
V	2483.50	51.32	29.28	3.53	34.03	50.10	74.00	-23.90	PK	PASS
V	2500.00	49.53	29.30	3.56	34.03	48.36	74.00	-25.64	PK	PASS
H	2483.50	39.61	29.28	3.53	34.03	38.39	54.00	-15.61	AV	PASS
H	2500.00	37.00	29.30	3.56	34.03	35.83	54.00	-18.17	AV	PASS
V	2483.50	41.18	29.28	3.53	34.03	39.96	54.00	-14.04	AV	PASS
V	2500.00	37.28	29.30	3.56	34.03	36.11	54.00	-17.89	AV	PASS

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

-----End-----