

# ANNEX DATA EDR

## FCC ID: 2BYOA-NS3006

Applicant: Zhuhai Nuosheng Technology Co., Ltd.

Address: Room 610, YinquanPavilion, Qinglv North Road, Tangjiawan Town, High-tech Zone, Zhuhai City

Manufacturer: Zhongshan Yisheng Technology Co., Ltd.

Address: 3rd Floor, Building B, No.18, Longtang 1st Road, Tanzhou Town, Zhongshan City

Product Name: Bluetooth Laser Star Projector with Slides

Trade Mark: Noxzsuns.W

Model Number: NS3006

Date of Receipt: Sep. 10, 2026

Test Date: Sep. 10, 2026 - Oct. 13, 2026

Date of Report: Oct. 13, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247  
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: Pass

## 1. Bandwidth

### 1.1 Test Result

#### 1.1.1 OBW

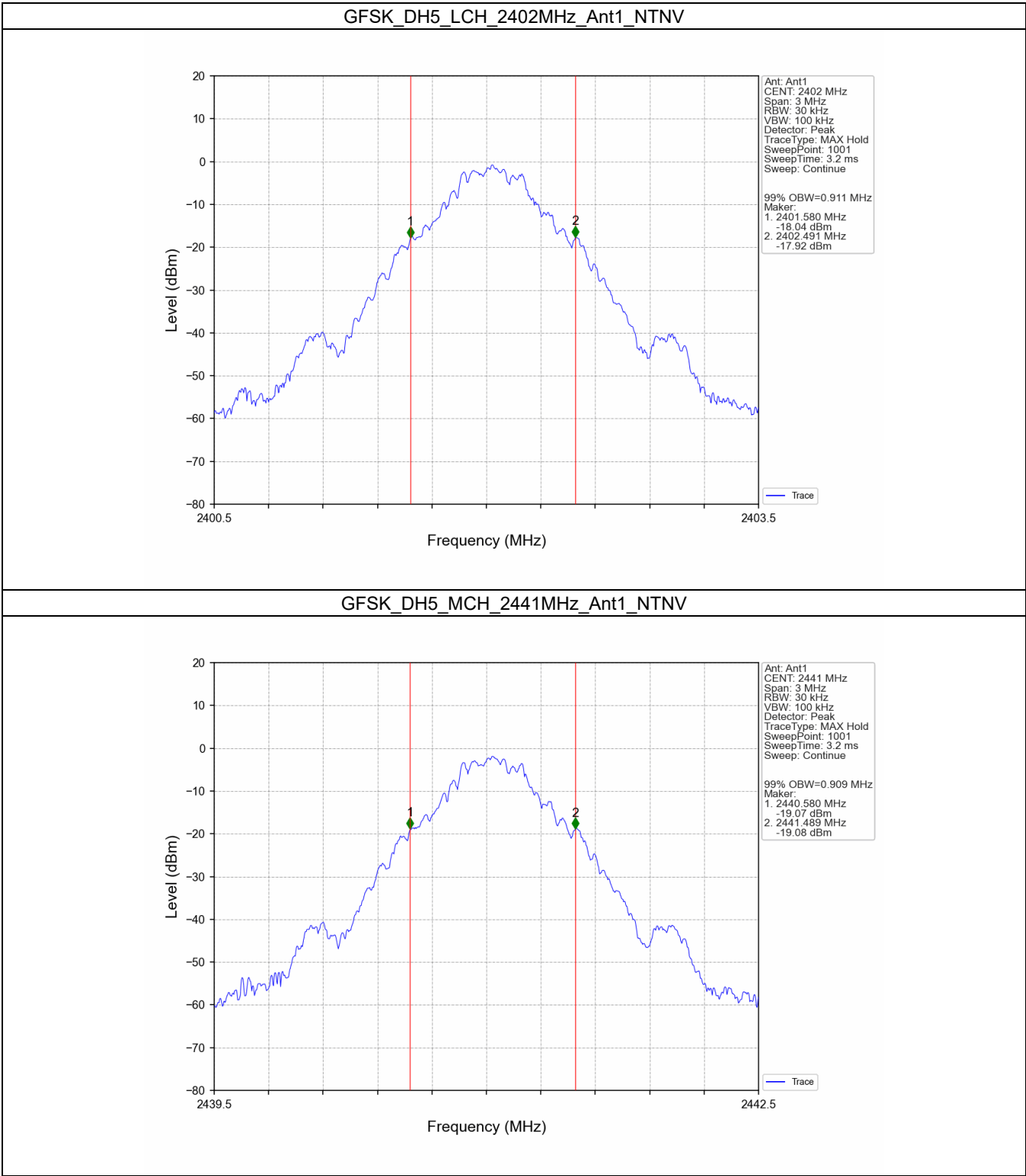
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|-------|---------|
|           |         |                 |             |     | Result                       | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.911                        | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 0.909                        | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 0.902                        | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.201                        | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.196                        | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.194                        | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.199                        | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.199                        | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.194                        | /     | Pass    |

#### 1.1.2 20dB BW

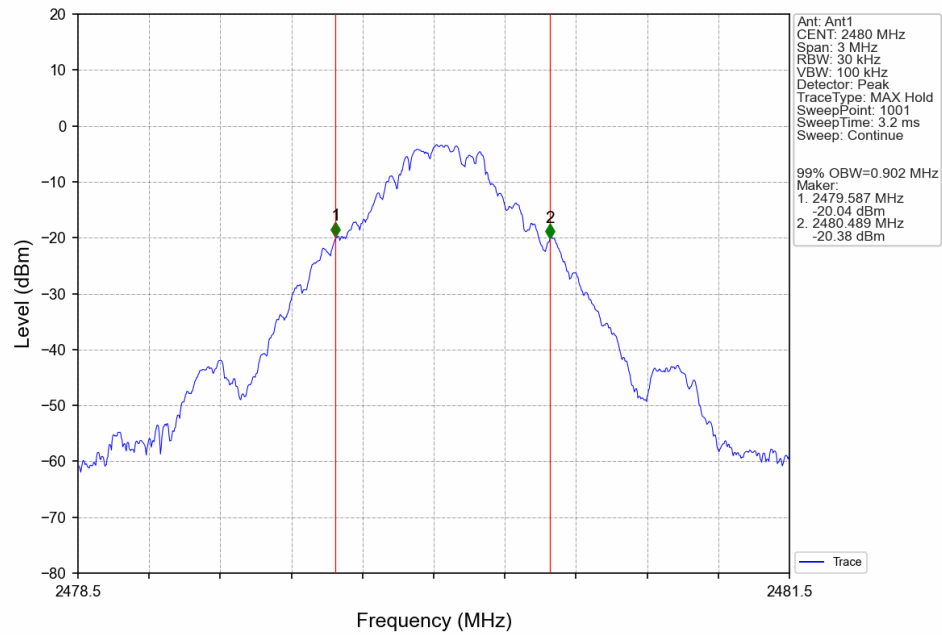
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|-------|---------|
|           |         |                 |             |     | Result               | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 1.025                | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 1.031                | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 1.034                | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.312                | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.319                | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.317                | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.302                | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.311                | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.304                | /     | Pass    |

# 1.2 Test Graph

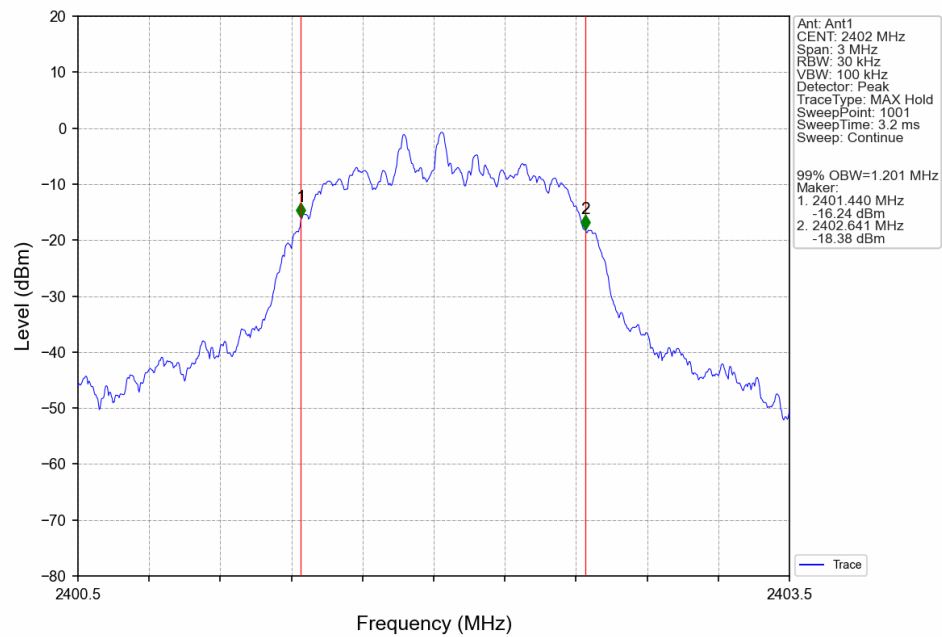
## 1.2.1 OBW



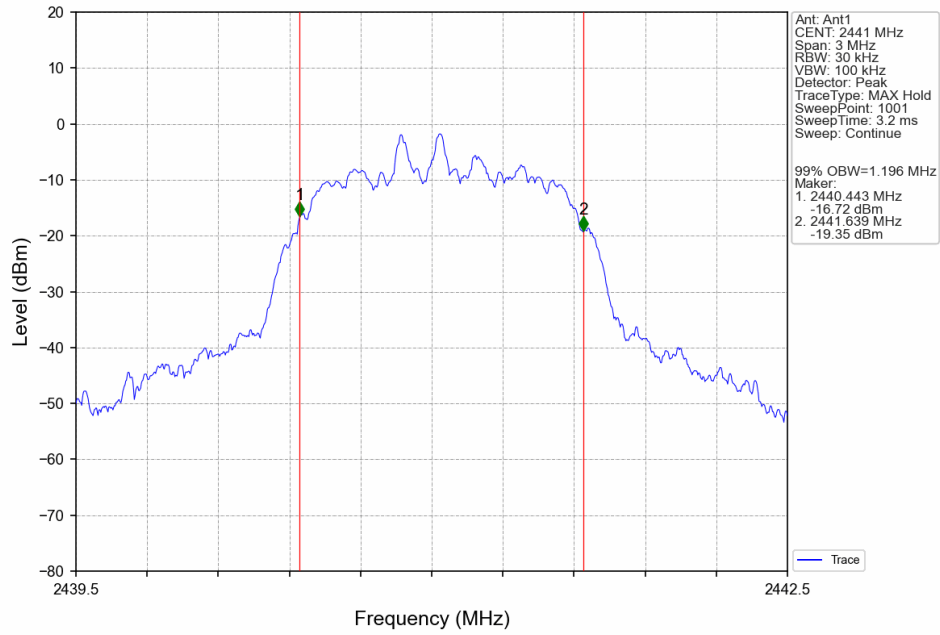
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



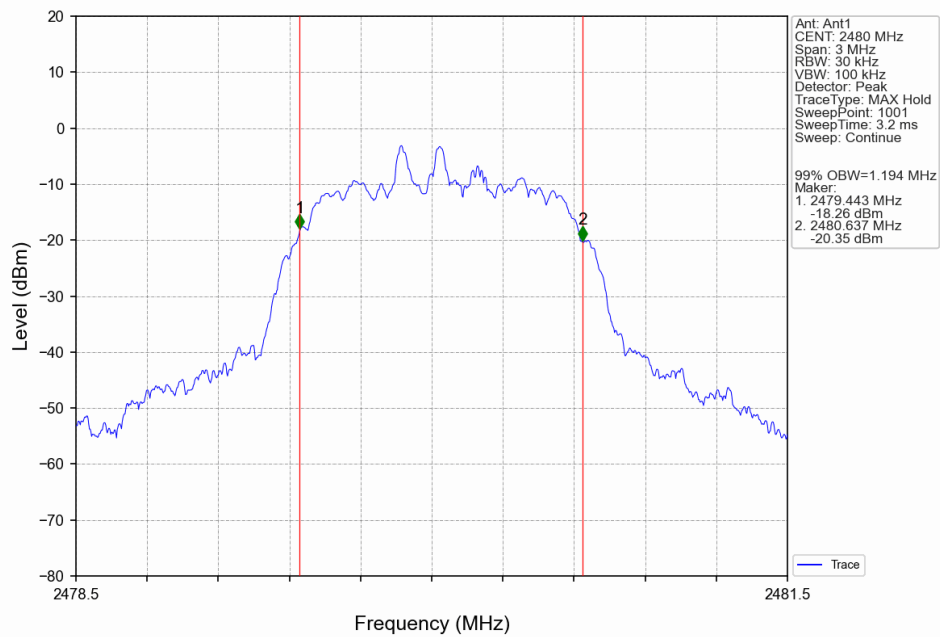
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



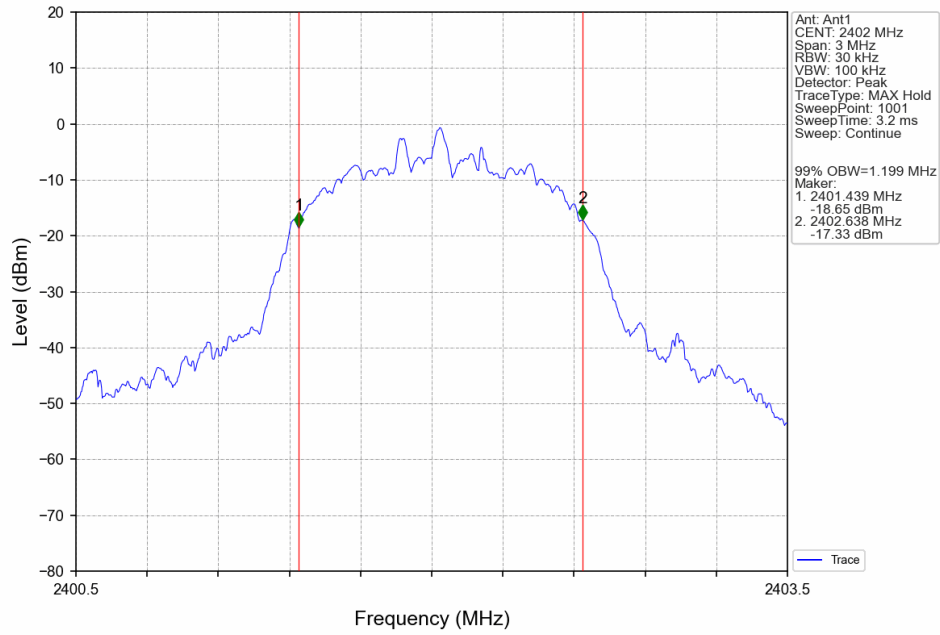
# Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



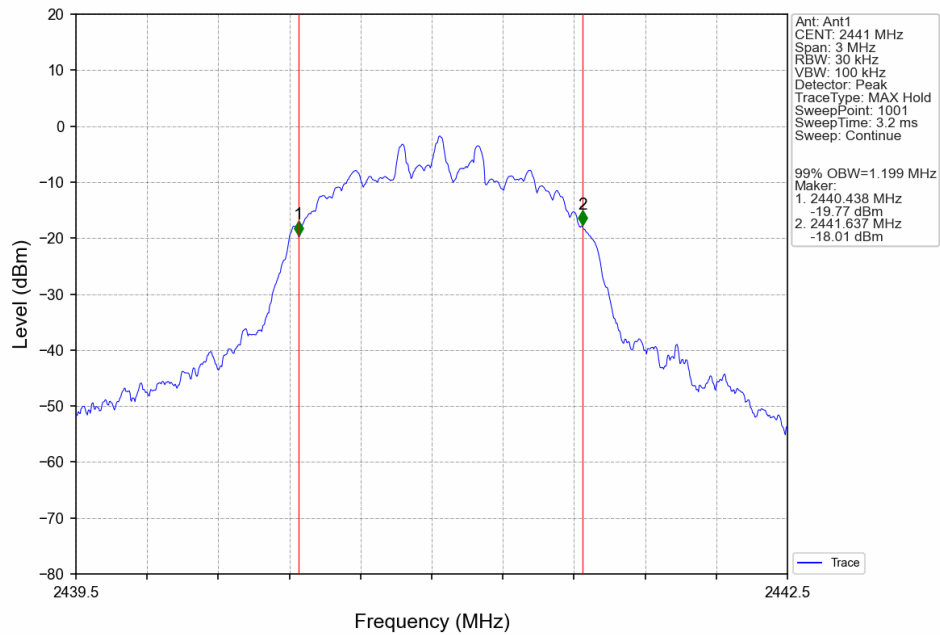
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



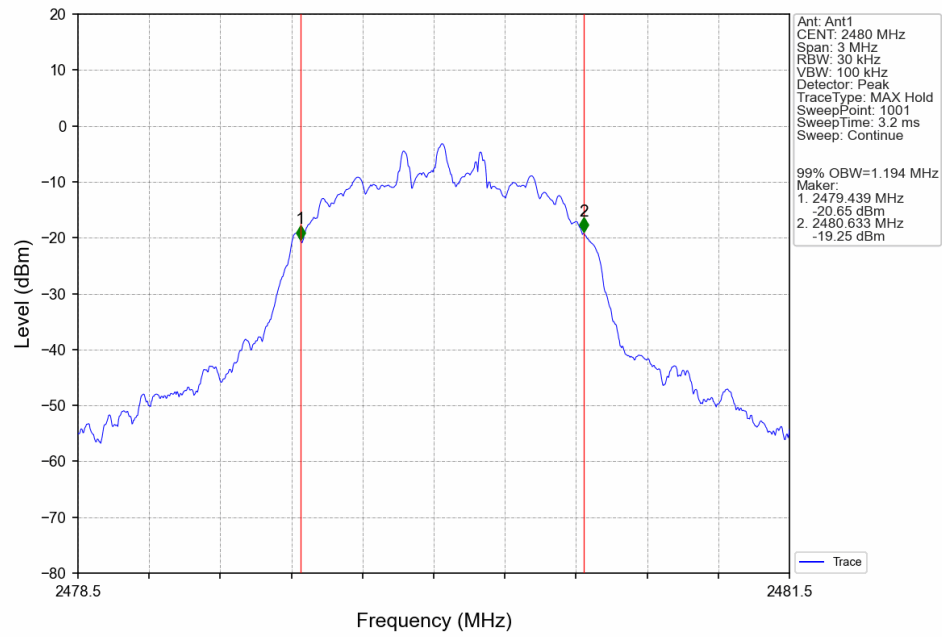
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



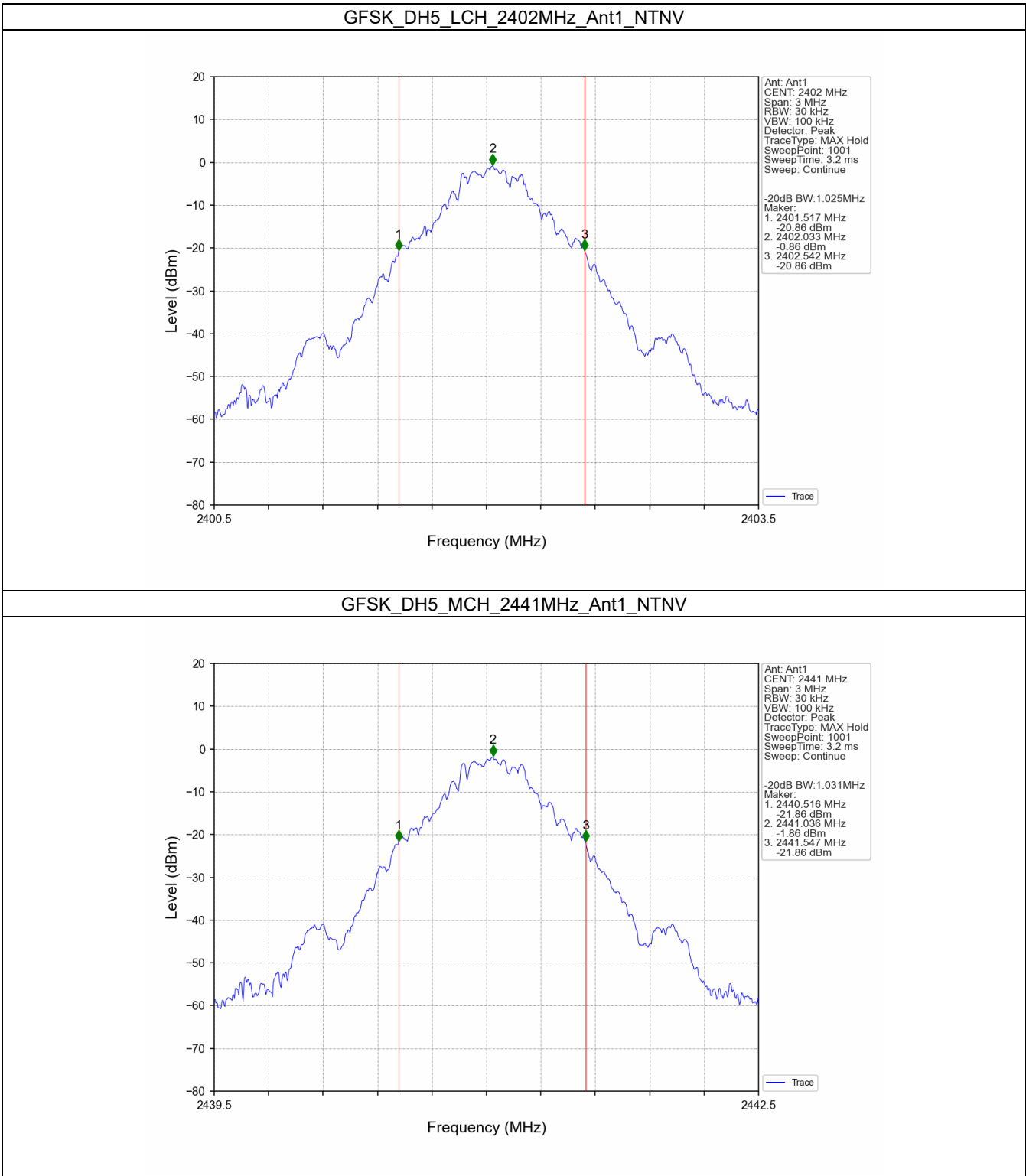
# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



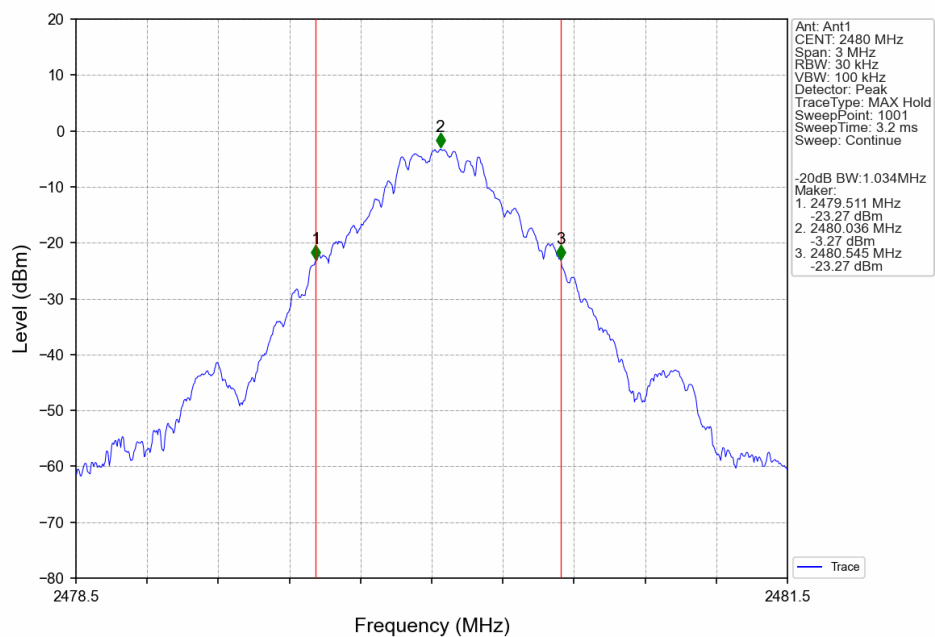
# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



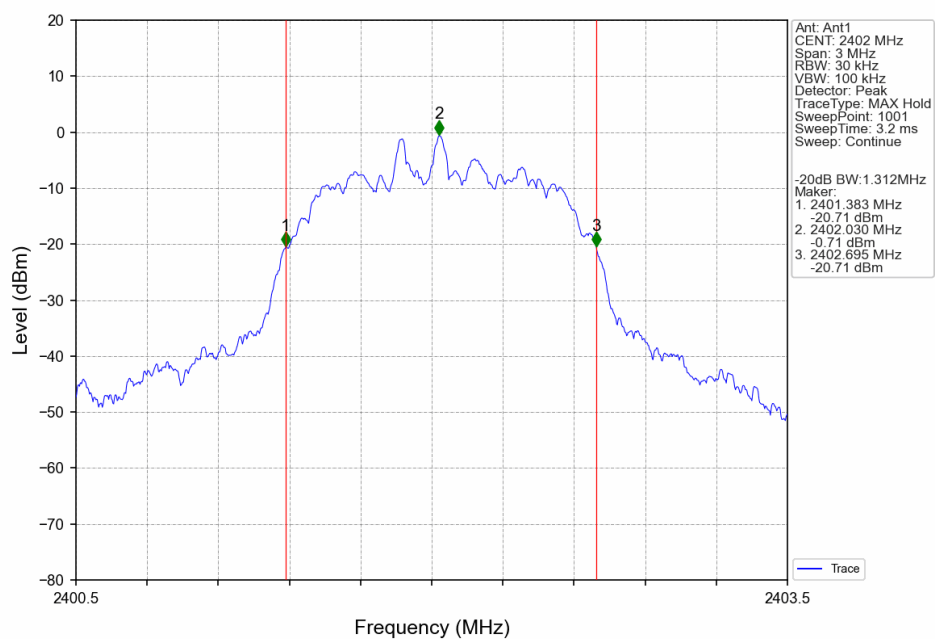
1.2.2 20dB BW



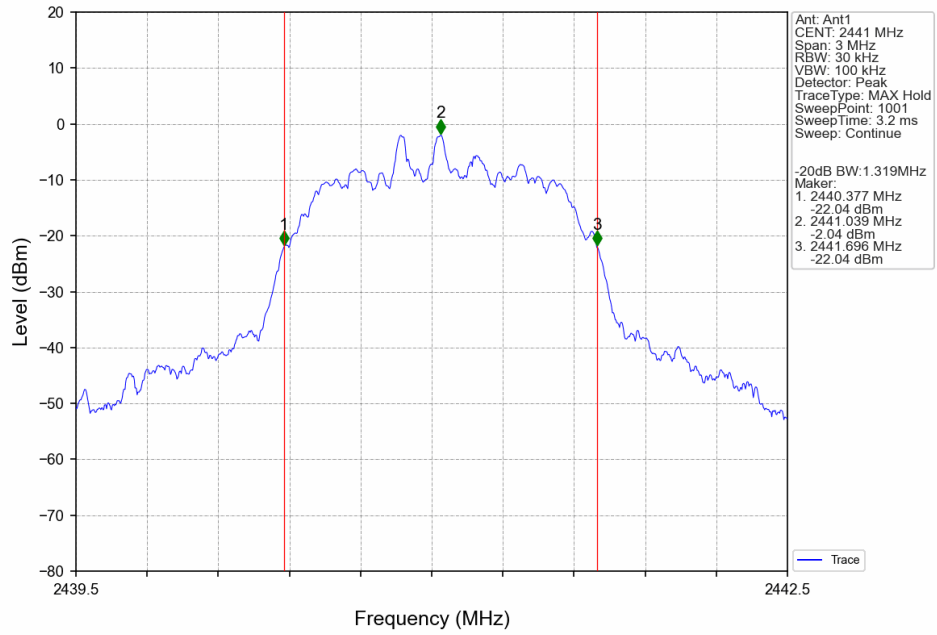
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



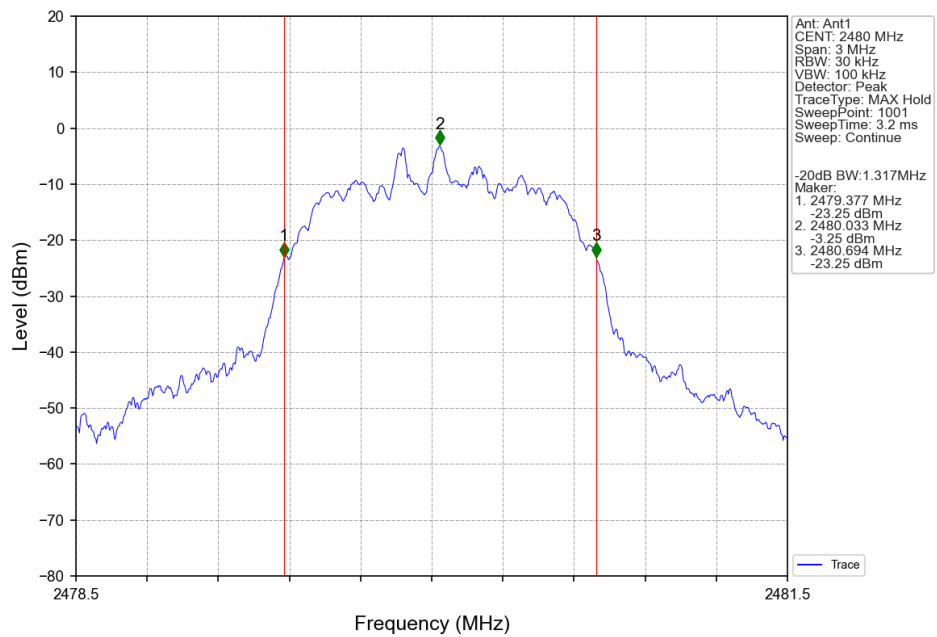
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



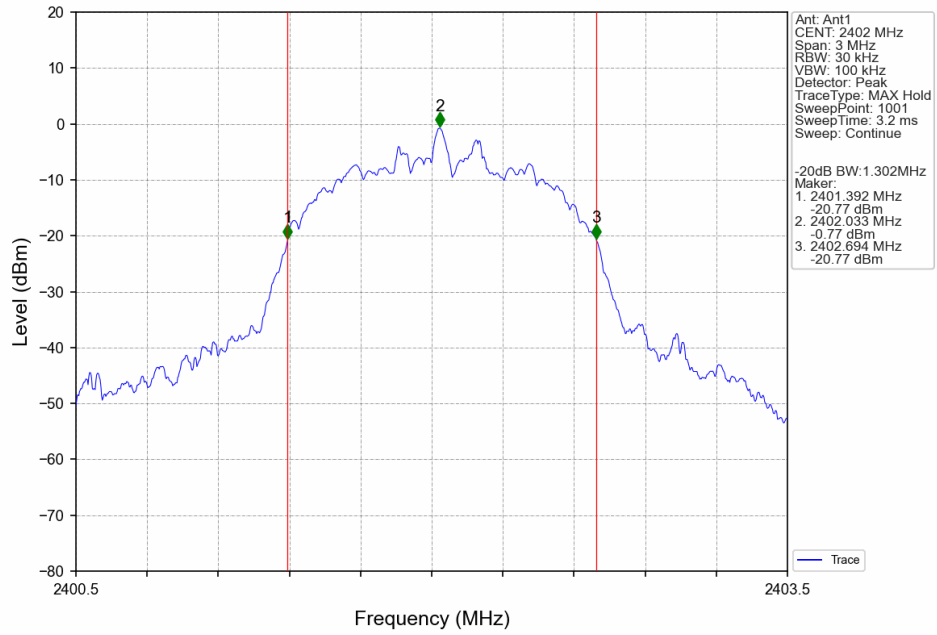
# Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



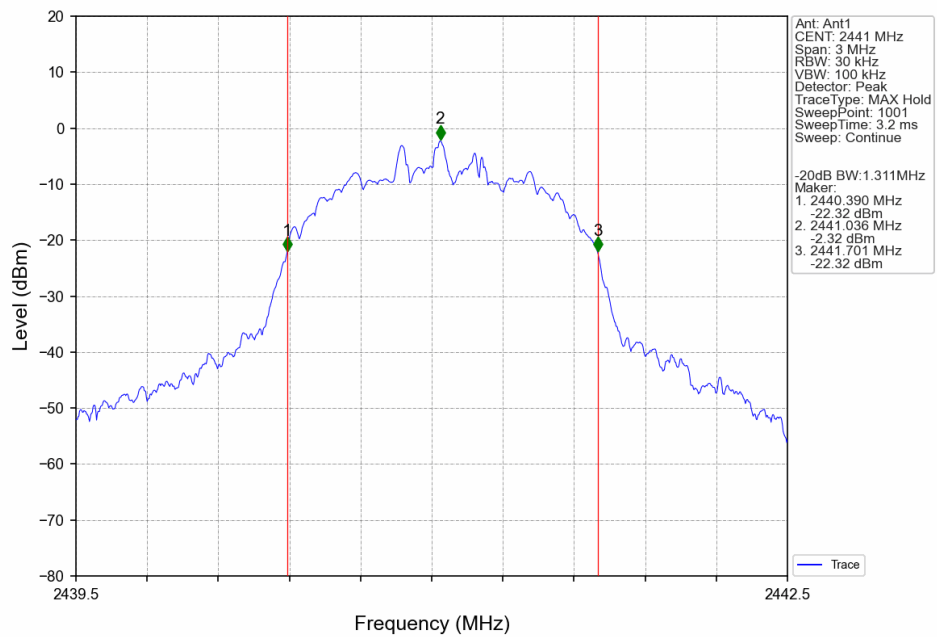
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



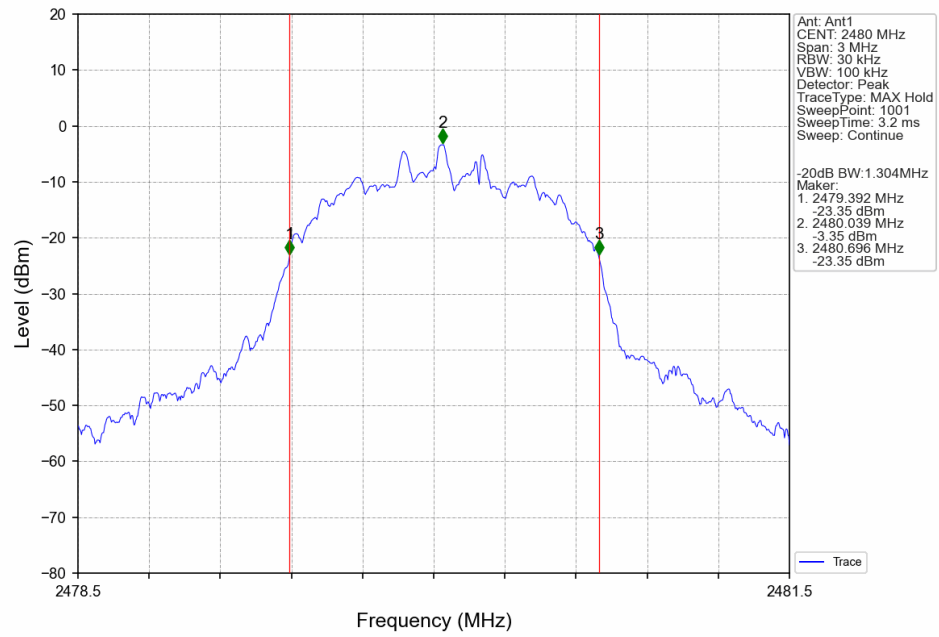
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



## 2. Maximum Conducted Output Power

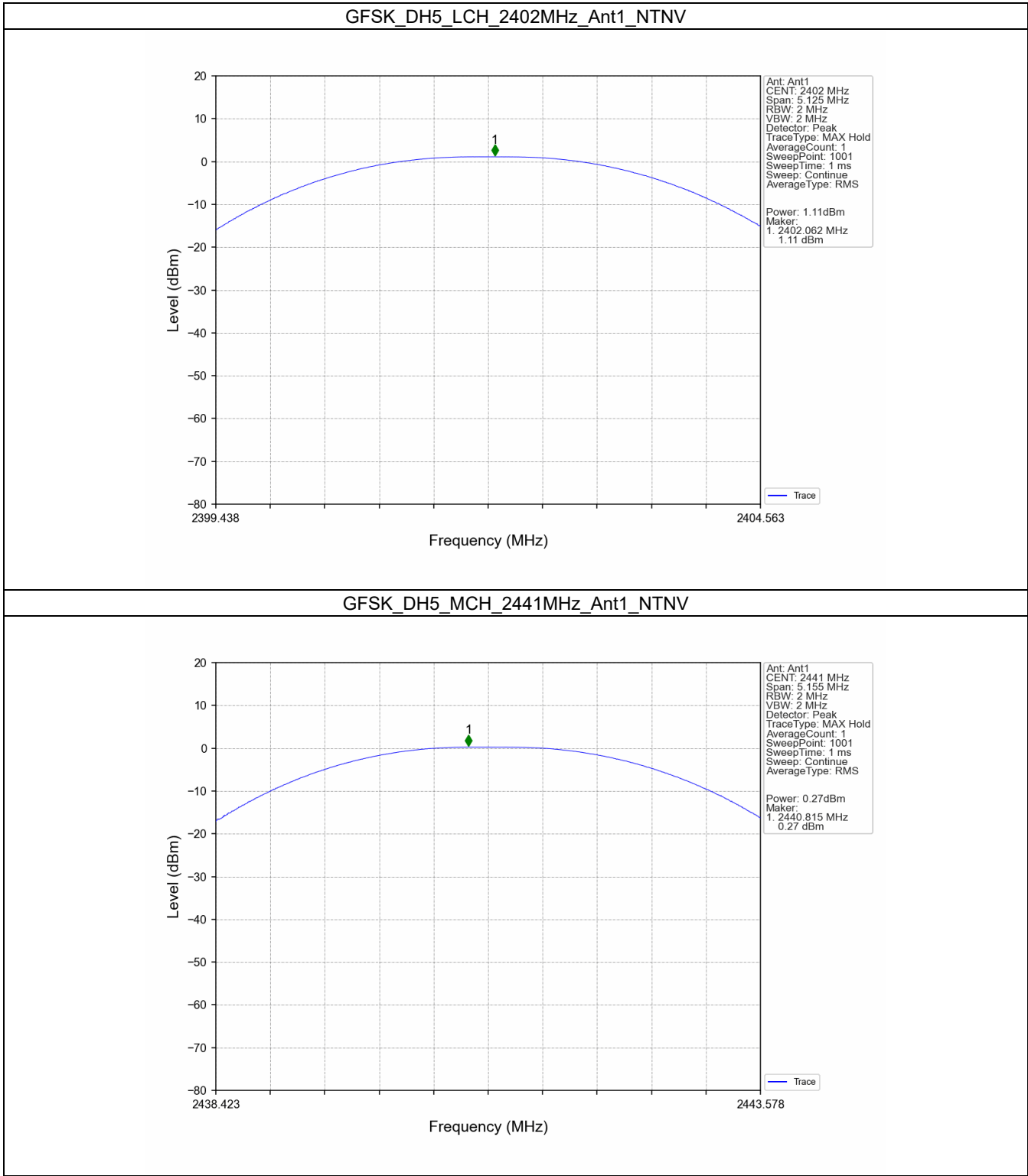
### 2.1 Test Result

#### 2.1.1 Power

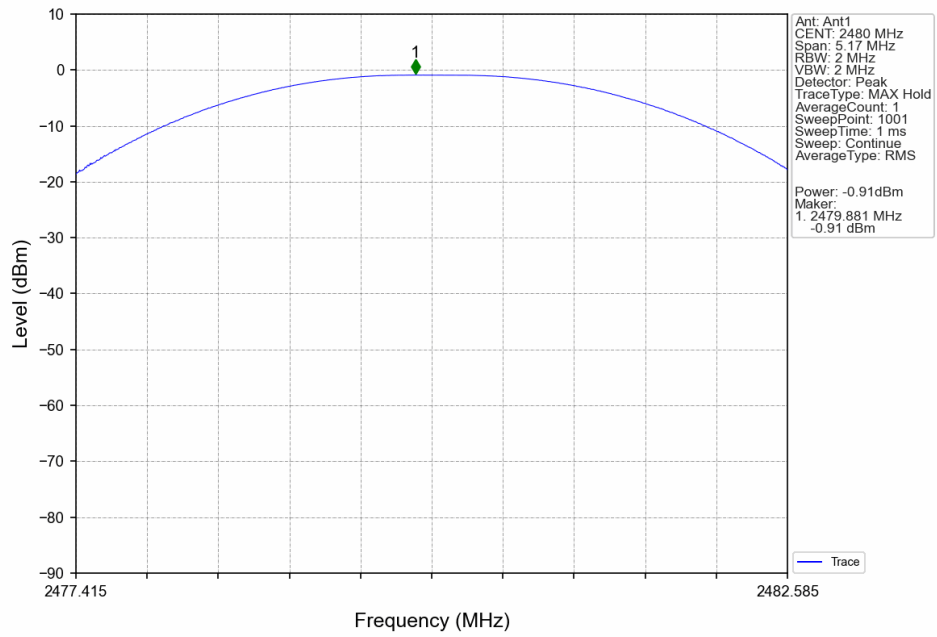
| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |              | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|--------------|---------|
|           |         |                 |             | ANT1                                      | Limit        |         |
| GFSK      | SISO    | 2402            | DH5         | 1.11                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | DH5         | 0.27                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | DH5         | -0.91                                     | $\leq 20.97$ | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 2.07                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 2DH5        | 1.20                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 2DH5        | -0.01                                     | $\leq 20.97$ | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 2.44                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 3DH5        | 1.54                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 3DH5        | 0.33                                      | $\leq 20.97$ | Pass    |

2.2 Test Graph

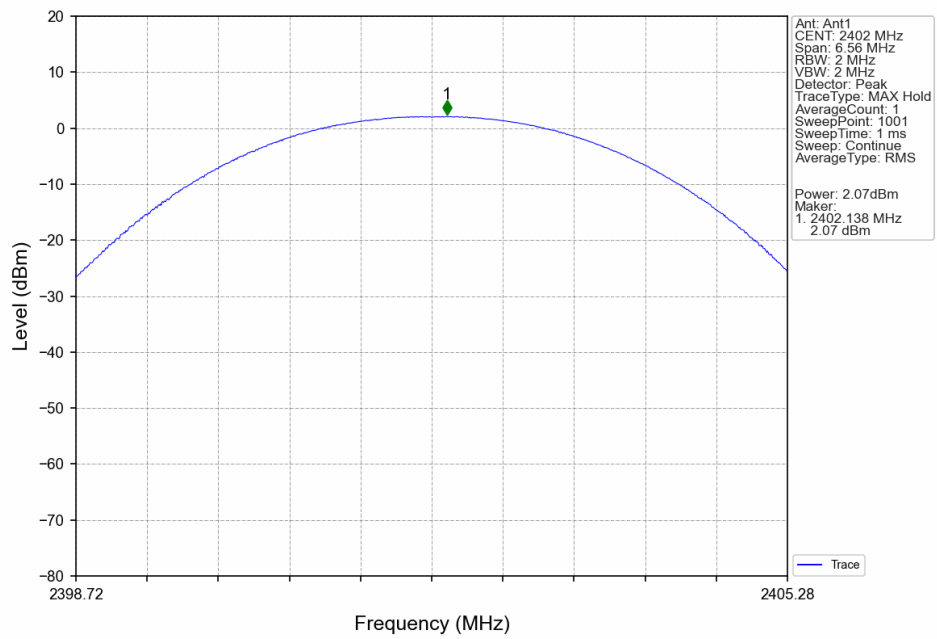
2.2.1 Power



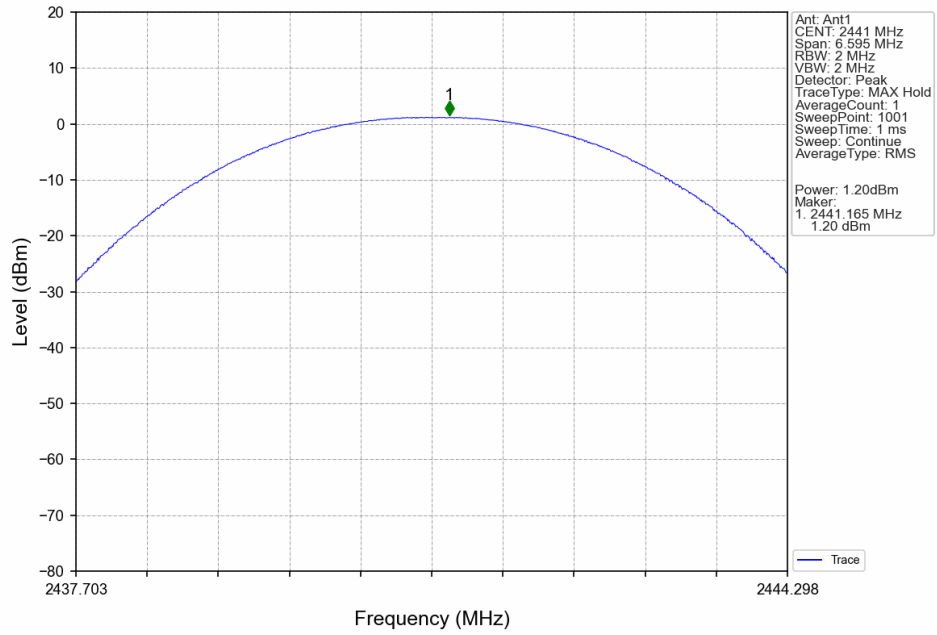
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



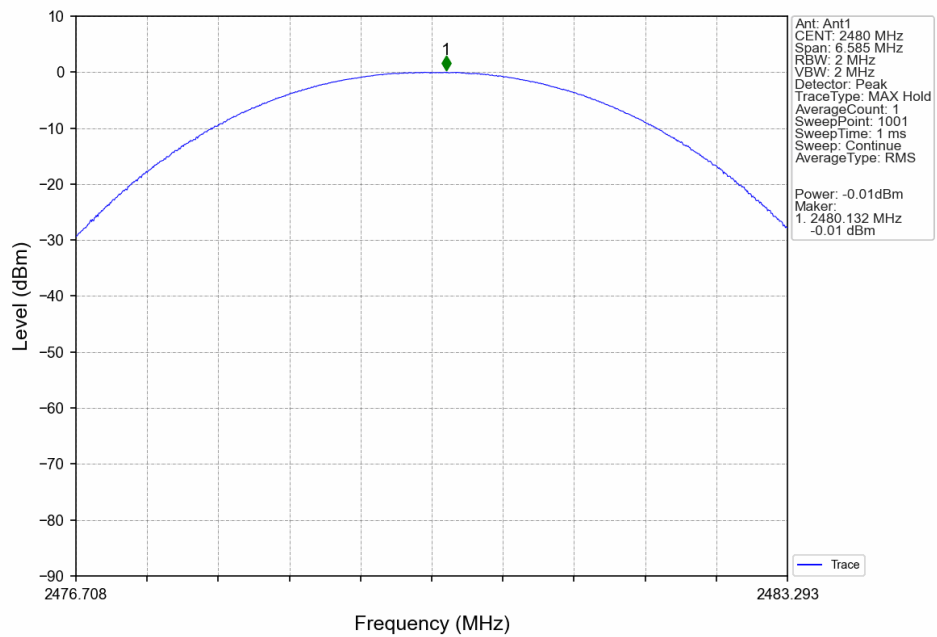
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



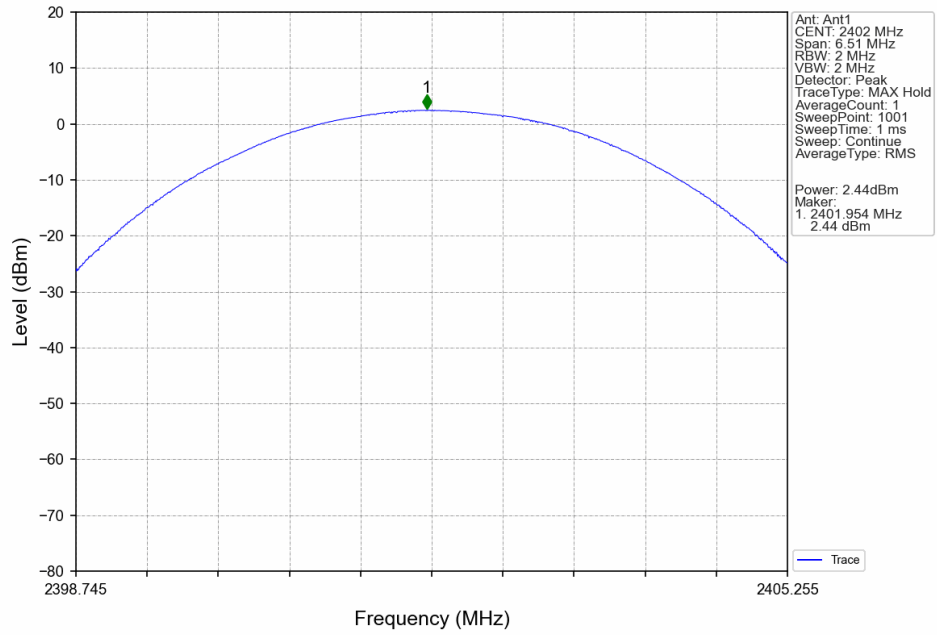
# Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



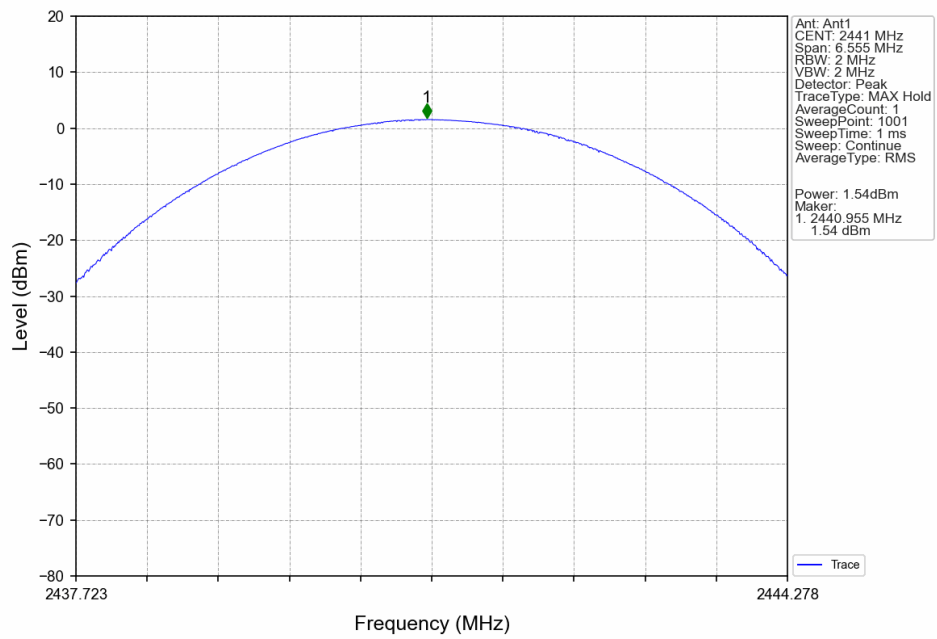
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



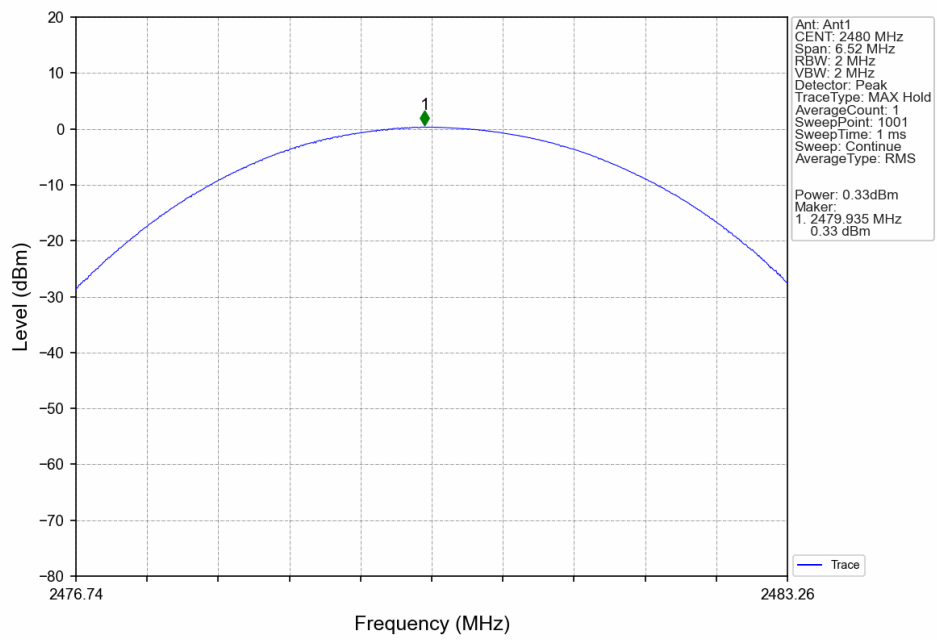
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



### 3. Carrier Frequency Separation

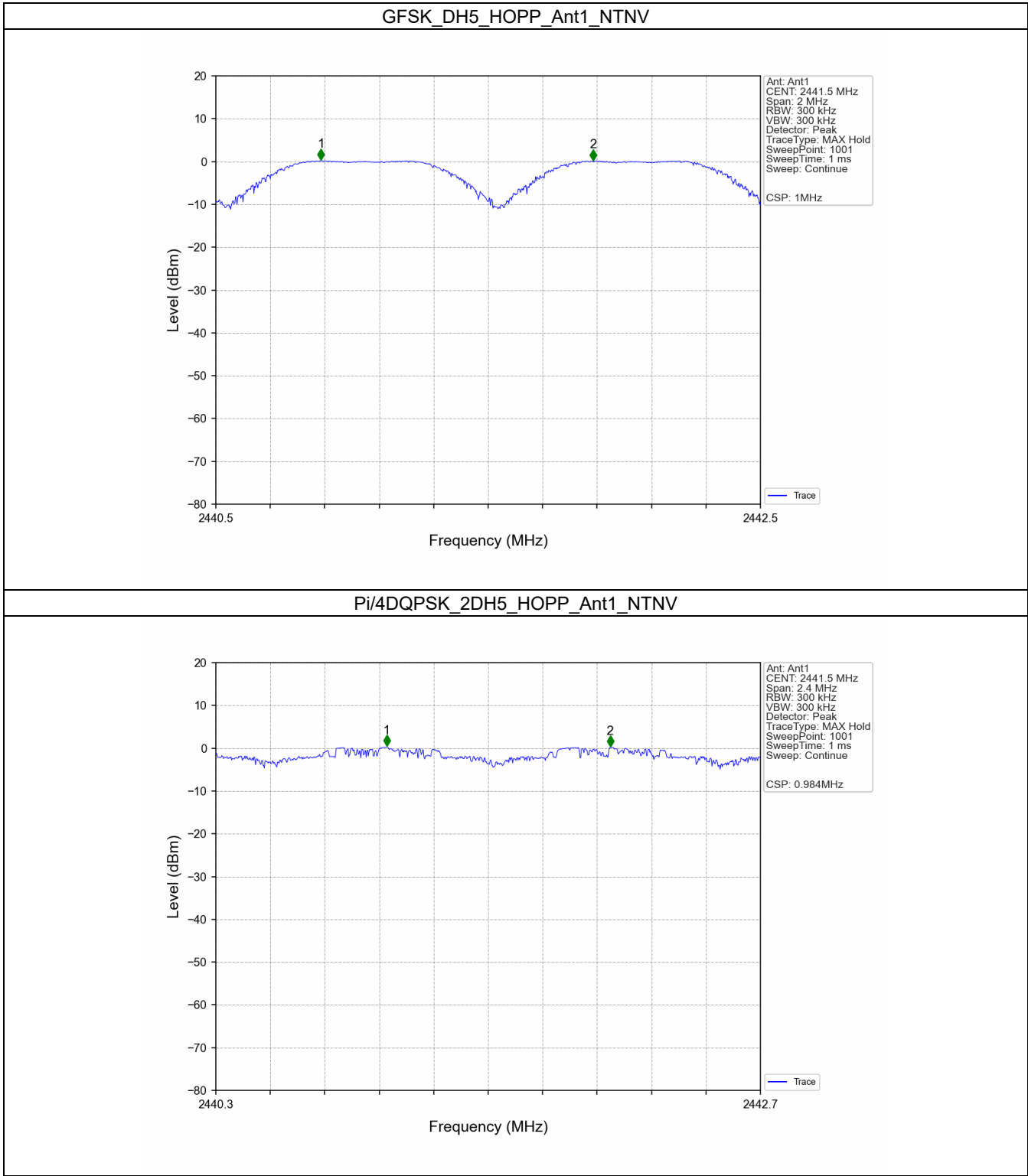
#### 3.1 Test Result

##### 3.1.1 Ant1

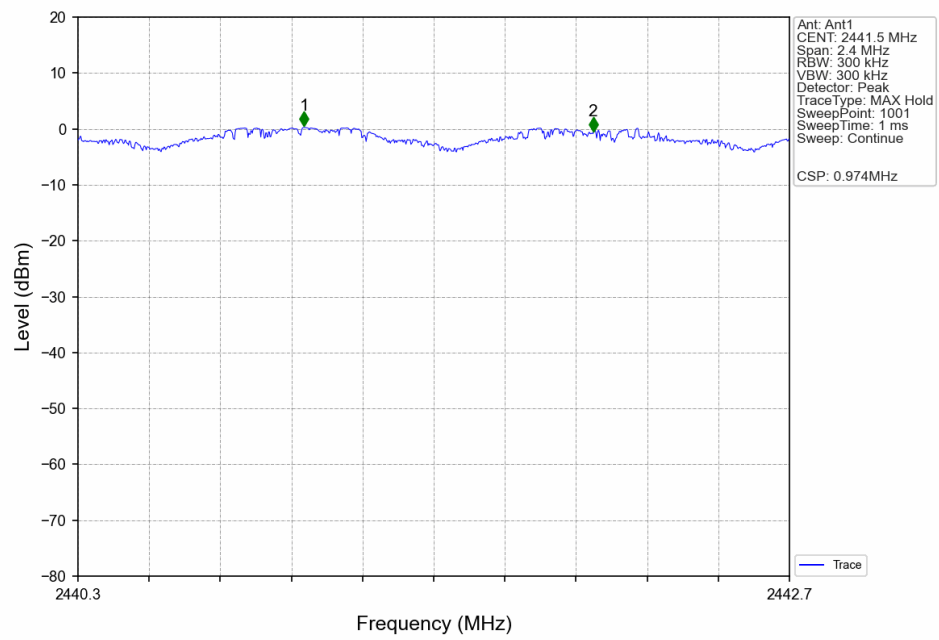
| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 1.000                    | 1.034                | $\geq 0.689$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 0.984                    | 1.319                | $\geq 0.879$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 0.974                    | 1.311                | $\geq 0.874$ | Pass    |

3.2 Test Graph

3.2.1 Ant1



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 4. Number of Hopping Frequencies

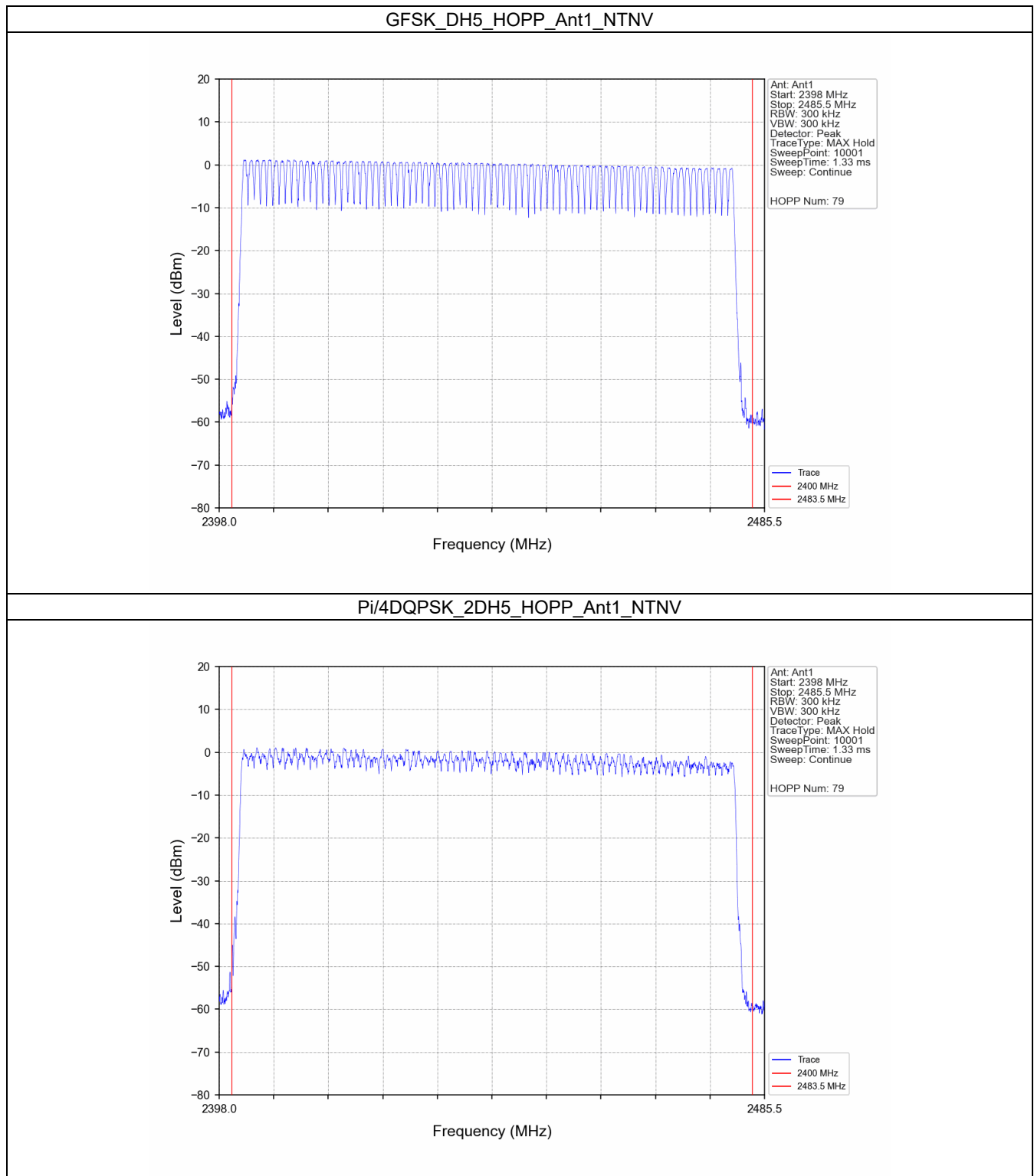
### 4.1 Test Result

#### 4.1.1 HoppNum

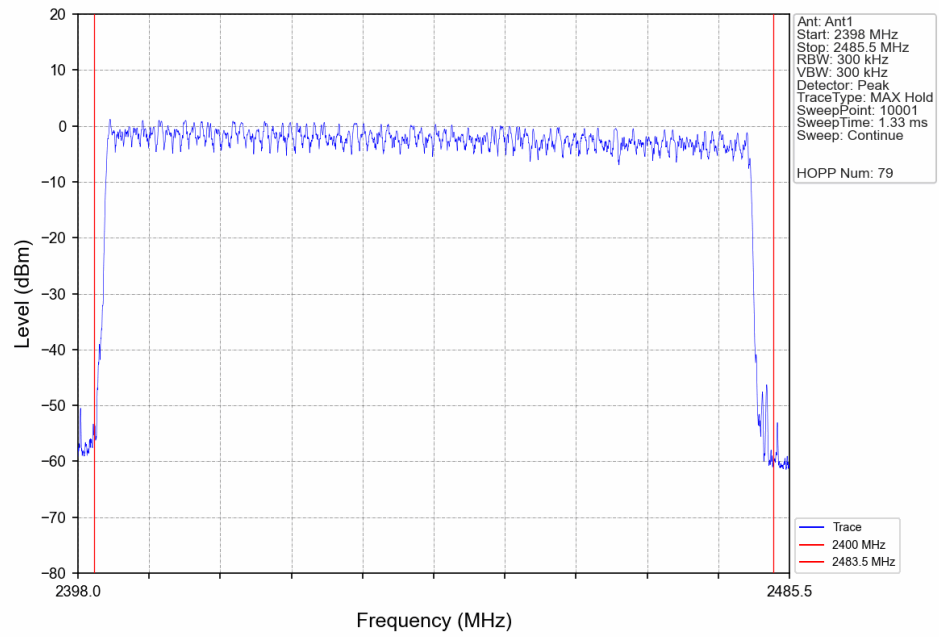
| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |           | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-----------|---------|
|           |         |                 |             | ANT1                       | Limit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

## 4.2 Test Graph

### 4.2.1 HoppNum



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 5. Time of Occupancy (Dwell Time)

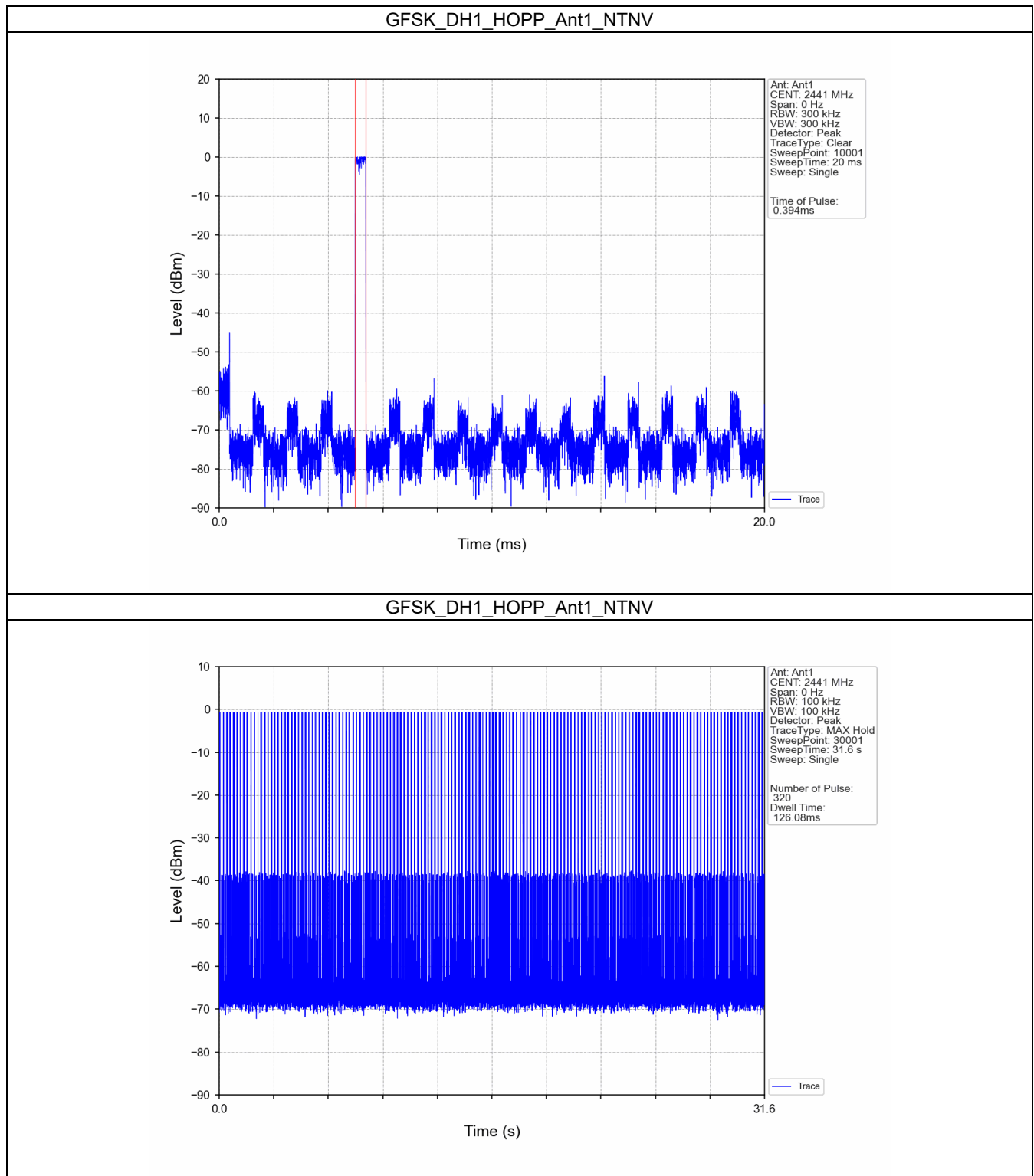
### 5.1 Test Result

#### 5.1.1 Ant1

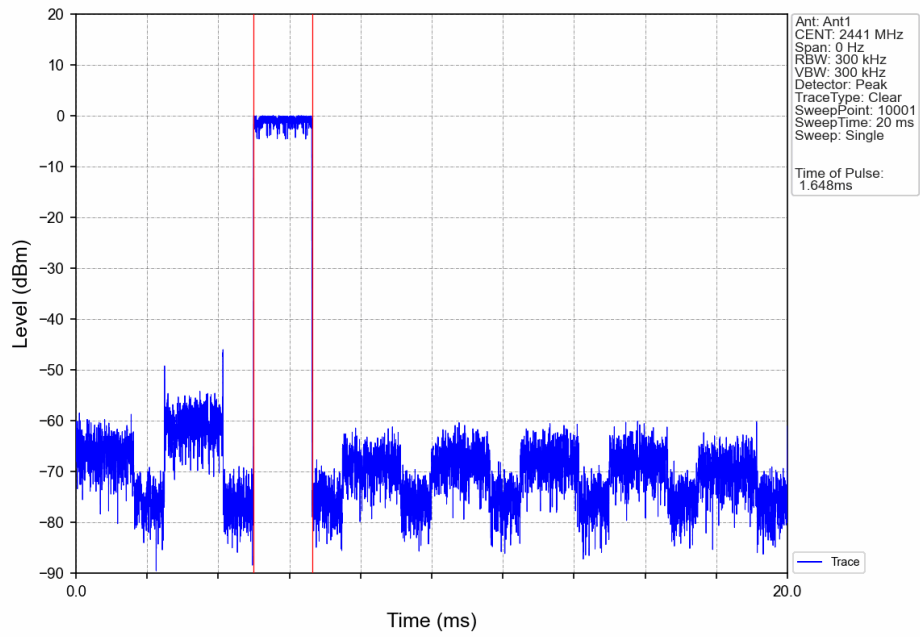
| Ant1      |         |                 |             |                               |                        |                                    |                 |            |         |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| 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         | 0.394                         | 31.600                 | 320                                | 126.080         | <=400      | Pass    |
|           |         |                 | DH3         | 1.648                         | 31.600                 | 153                                | 252.144         | <=400      | Pass    |
|           |         |                 | DH5         | 2.898                         | 31.600                 | 99                                 | 286.902         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.402                         | 31.600                 | 319                                | 128.238         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.656                         | 31.600                 | 150                                | 248.400         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.904                         | 31.600                 | 94                                 | 272.976         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.402                         | 31.600                 | 320                                | 128.640         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.656                         | 31.600                 | 159                                | 263.304         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.906                         | 31.600                 | 97                                 | 281.882         | <=400      | Pass    |

## 5.2 Test Graph

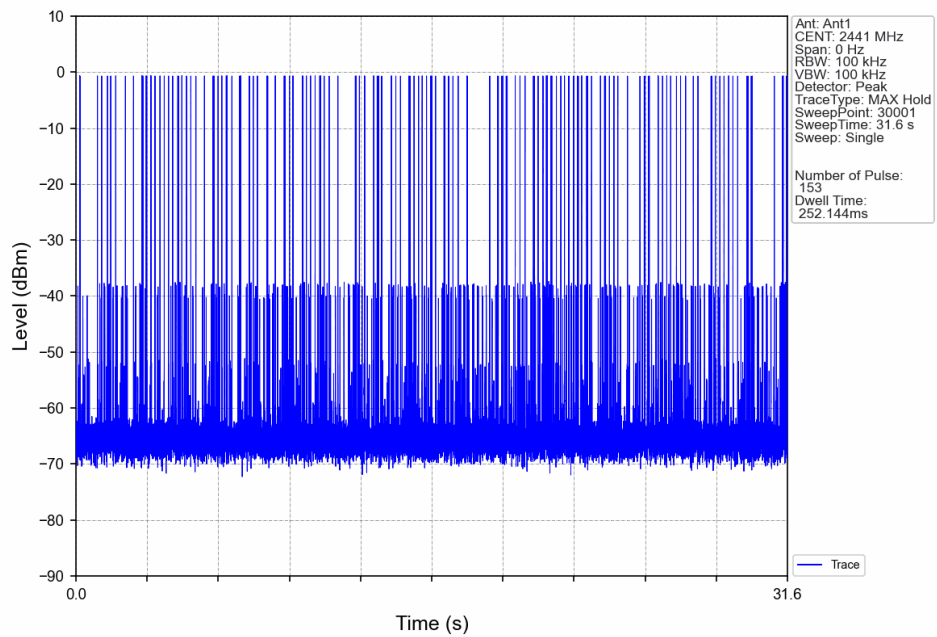
### 5.2.1 Ant1



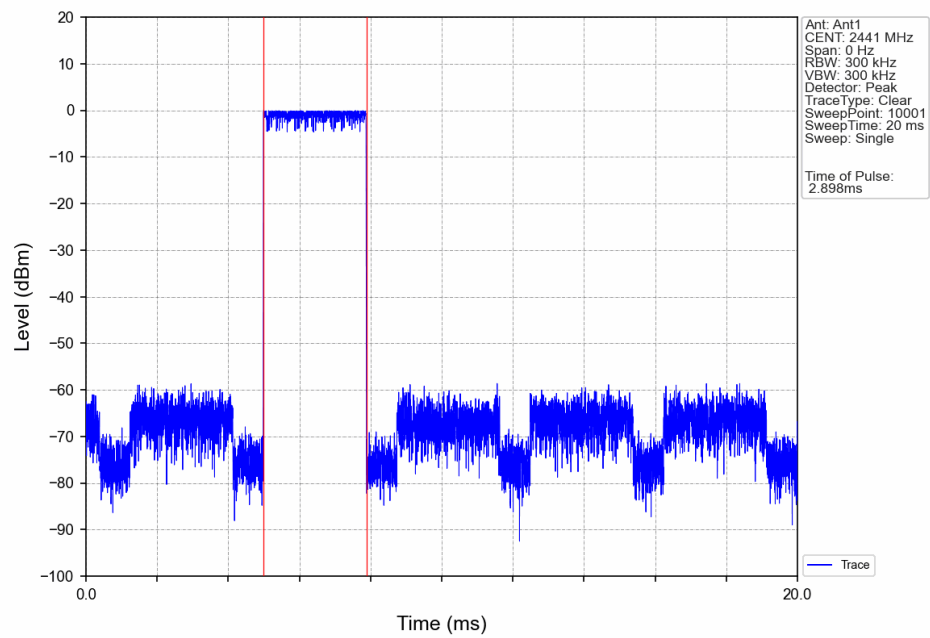
# GFSK\_DH3\_HOPP\_Ant1\_NTNV



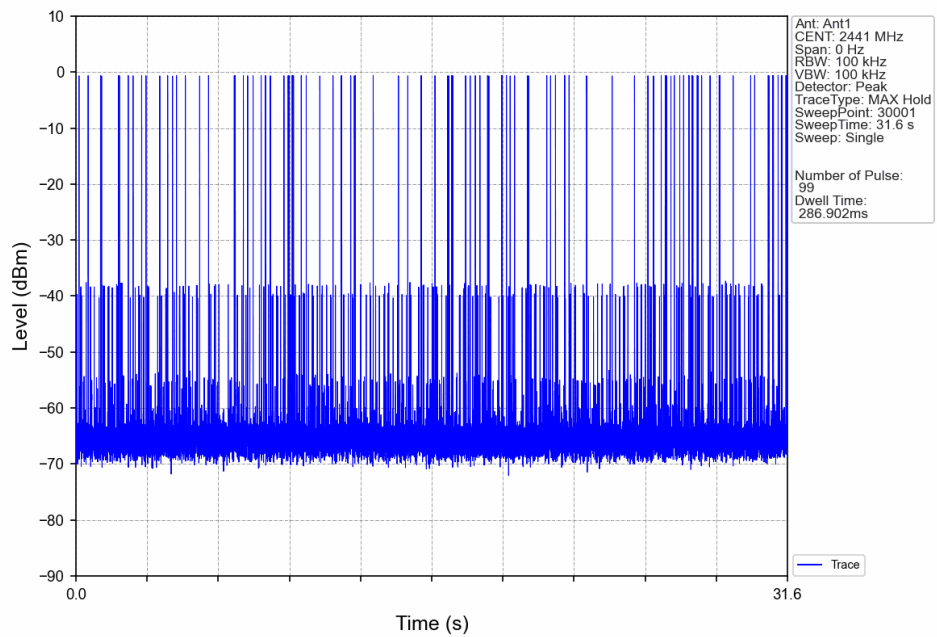
# GFSK\_DH3\_HOPP\_Ant1\_NTNV



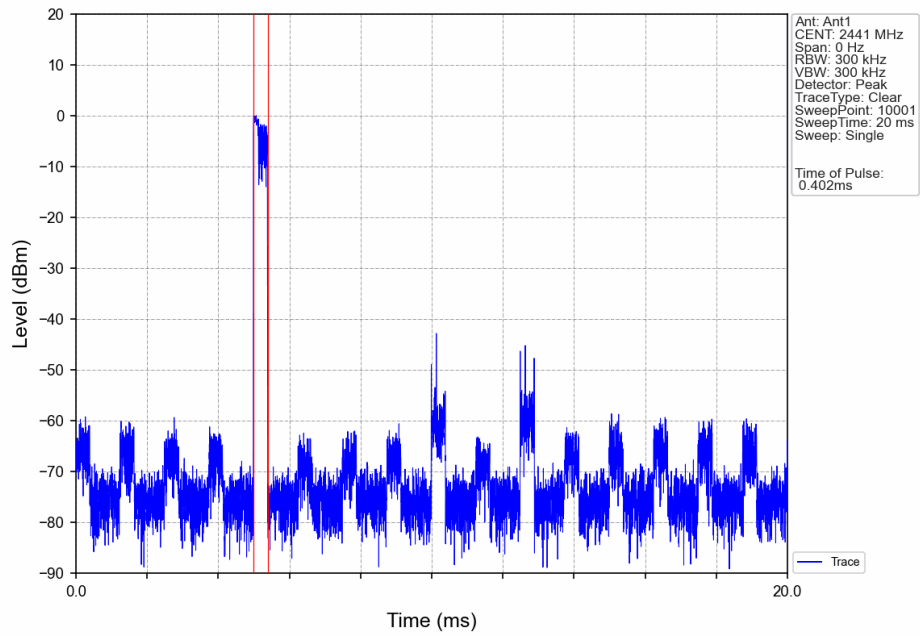
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



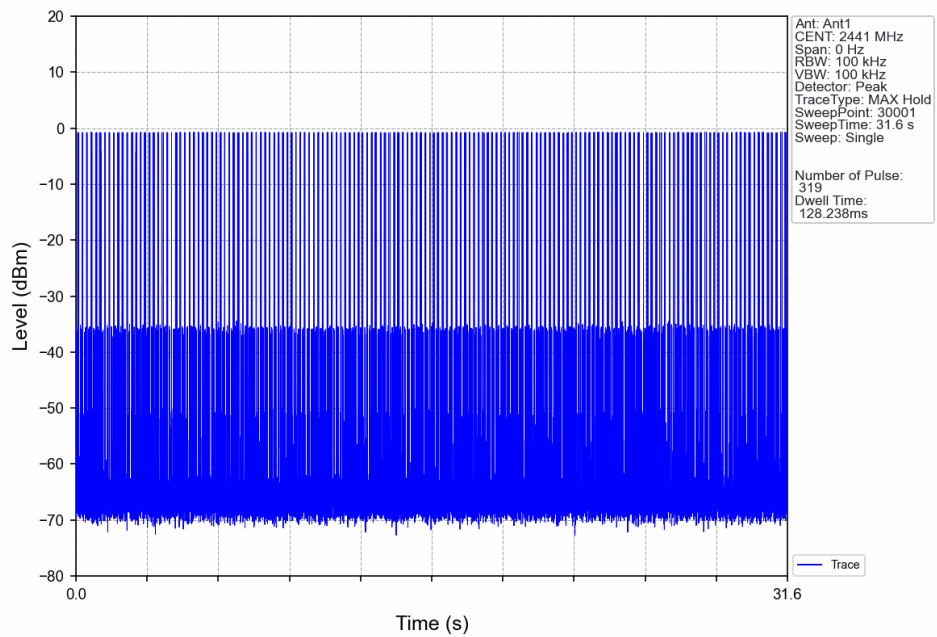
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



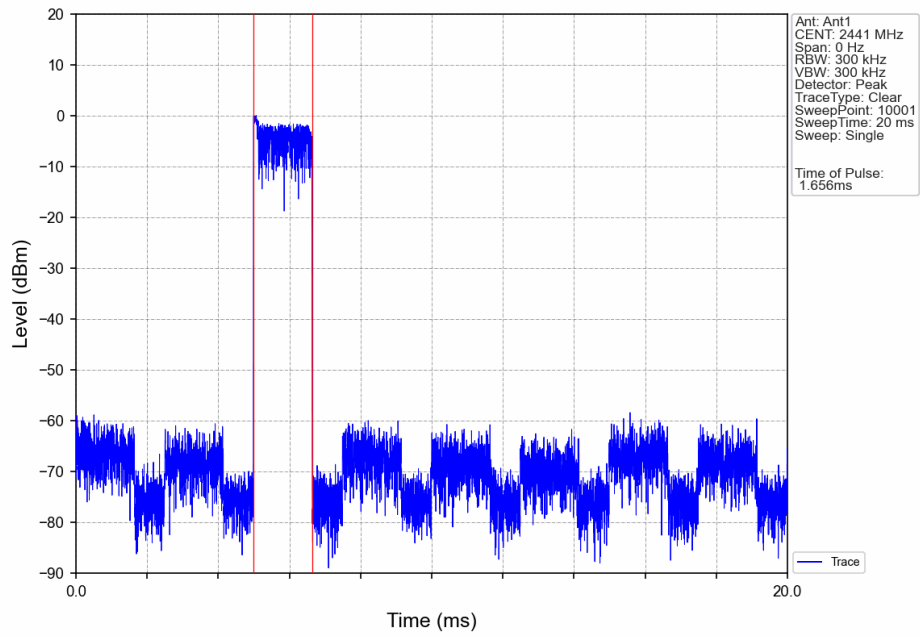
# Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



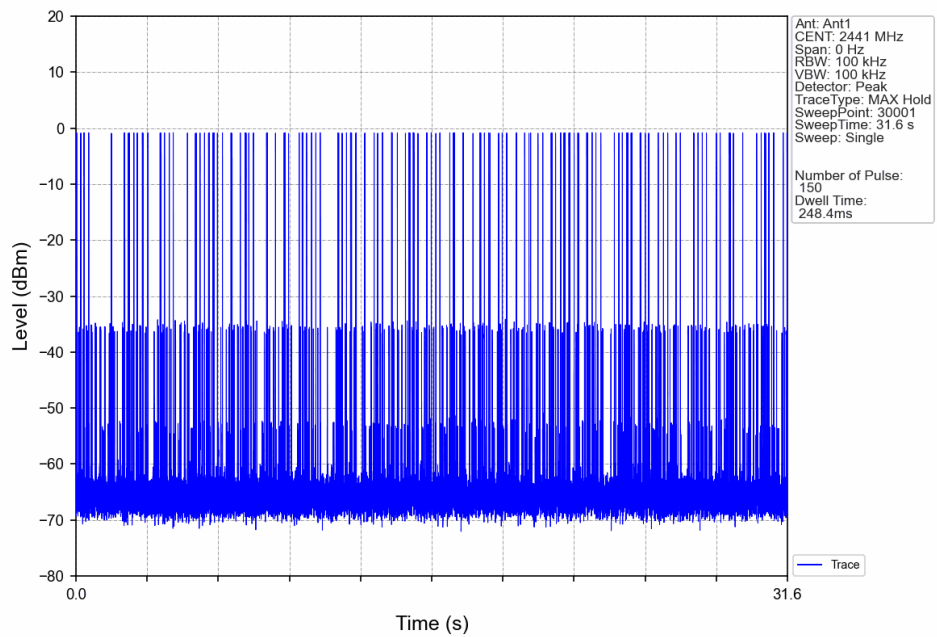
# Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



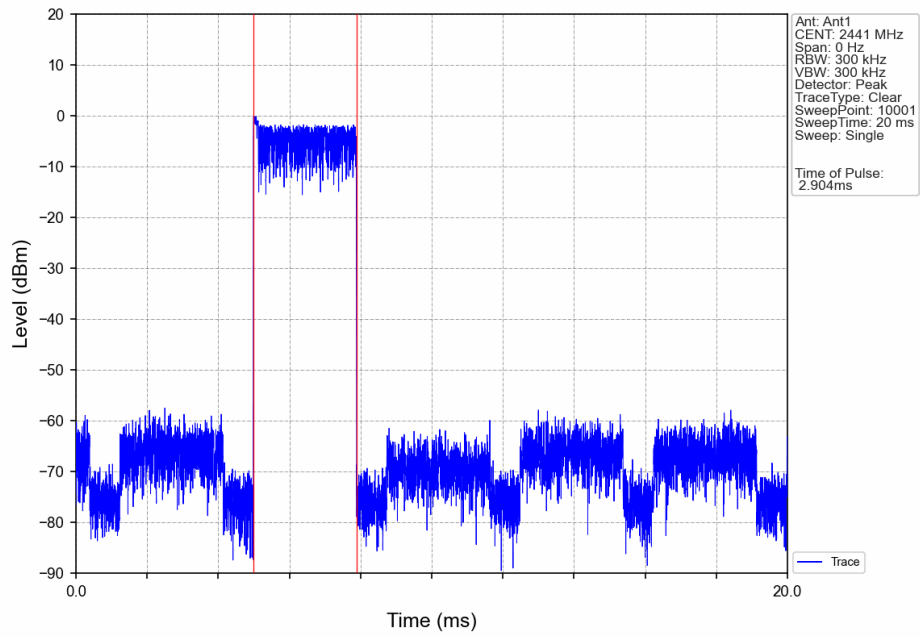
# Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



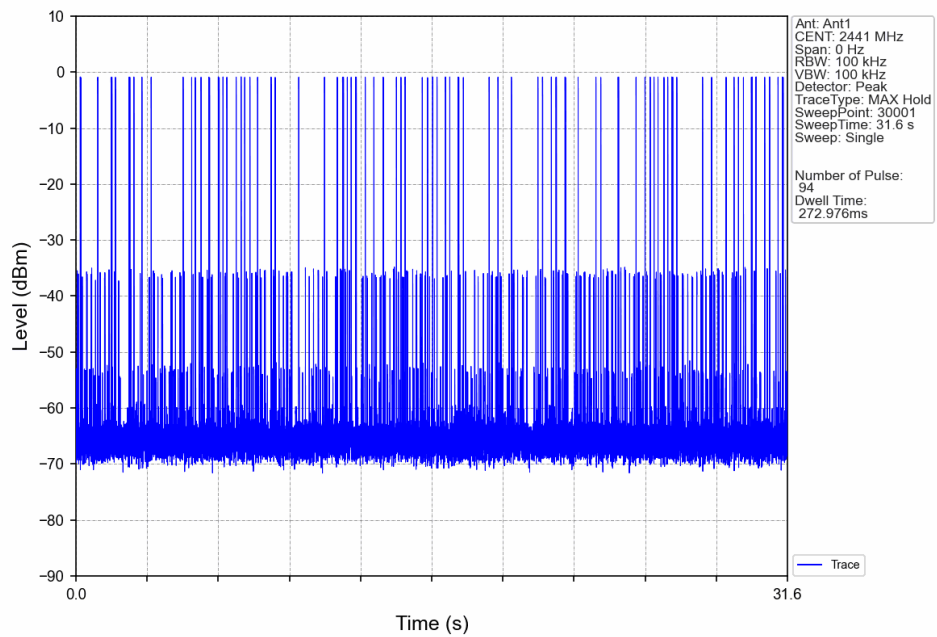
# Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



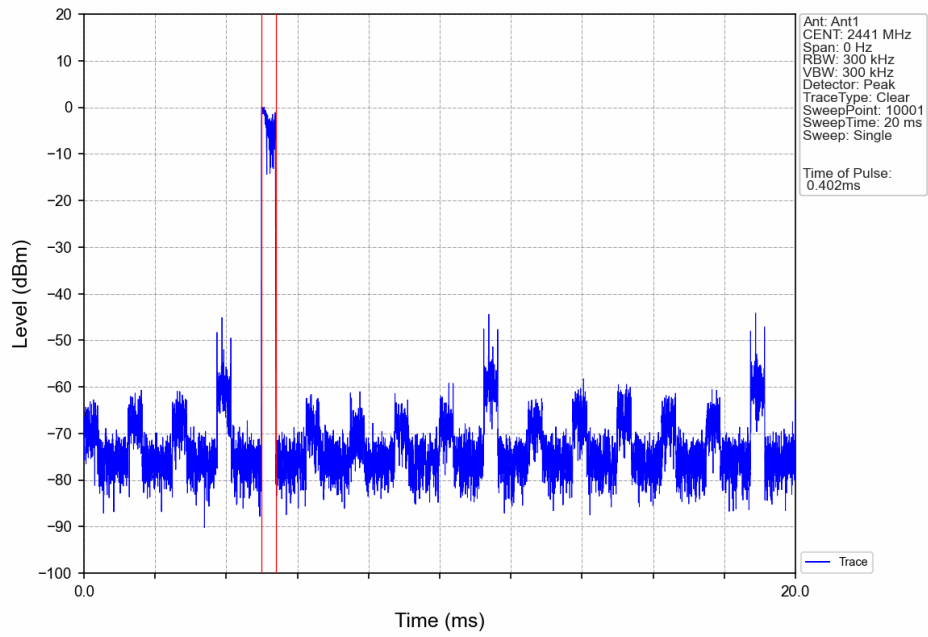
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



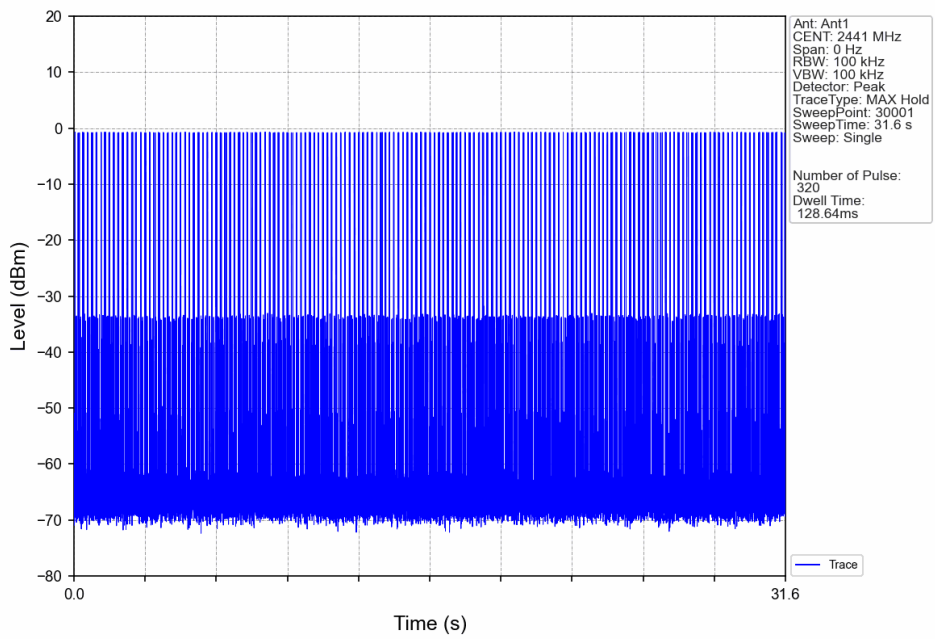
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



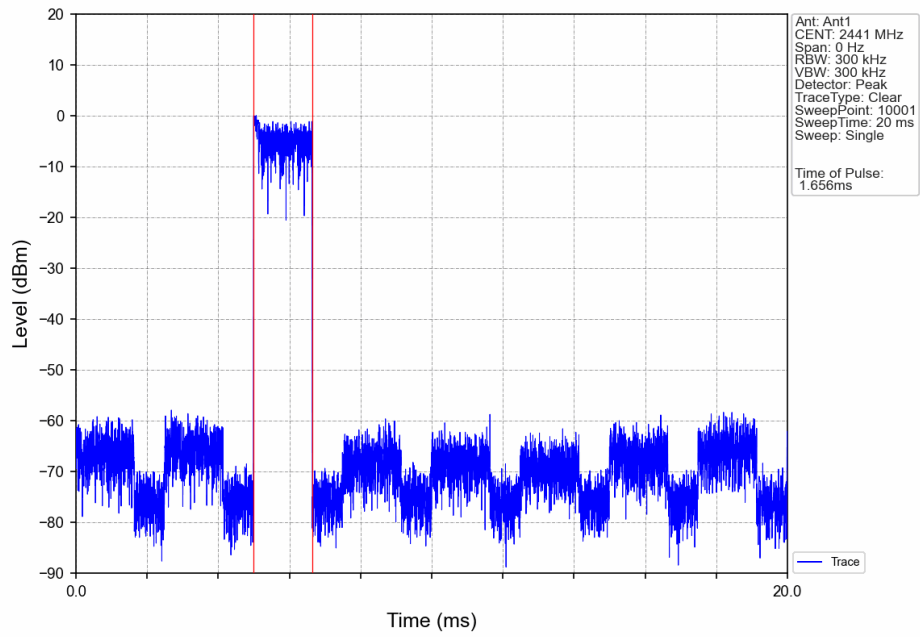
# 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



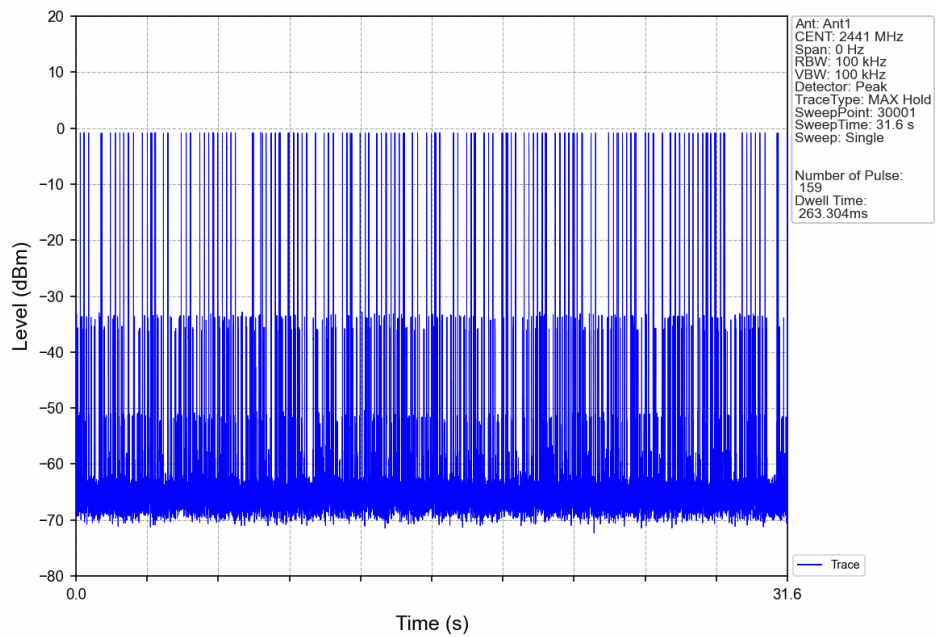
# 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



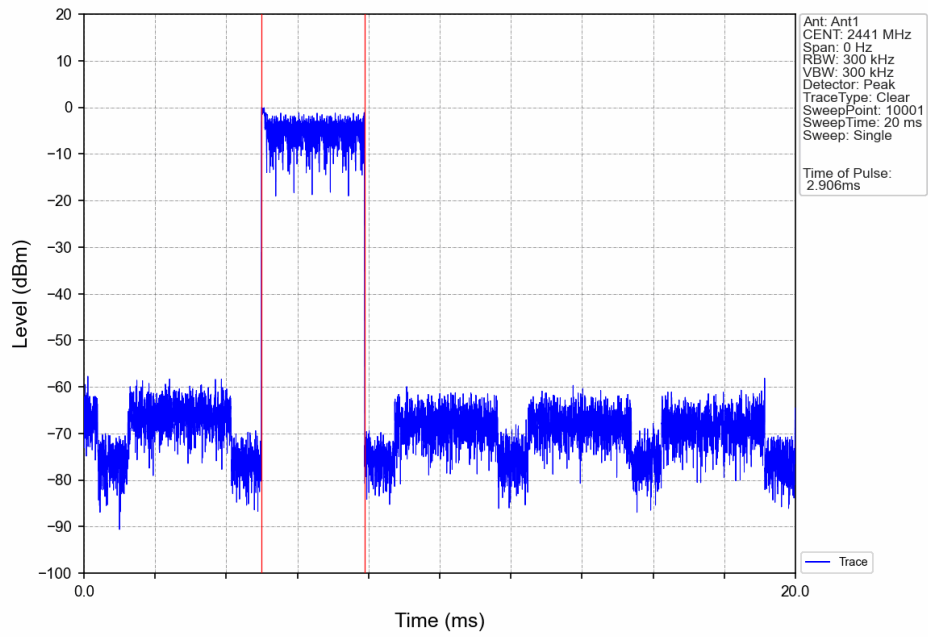
# 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



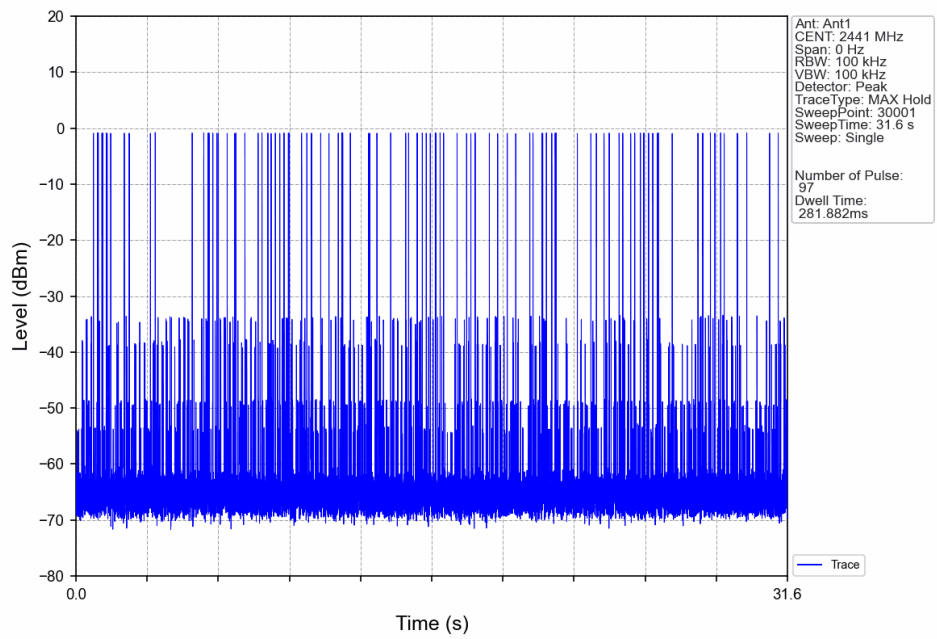
# 8DPSK\_3DH3\_HOPP\_Ant1\_NTNV



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

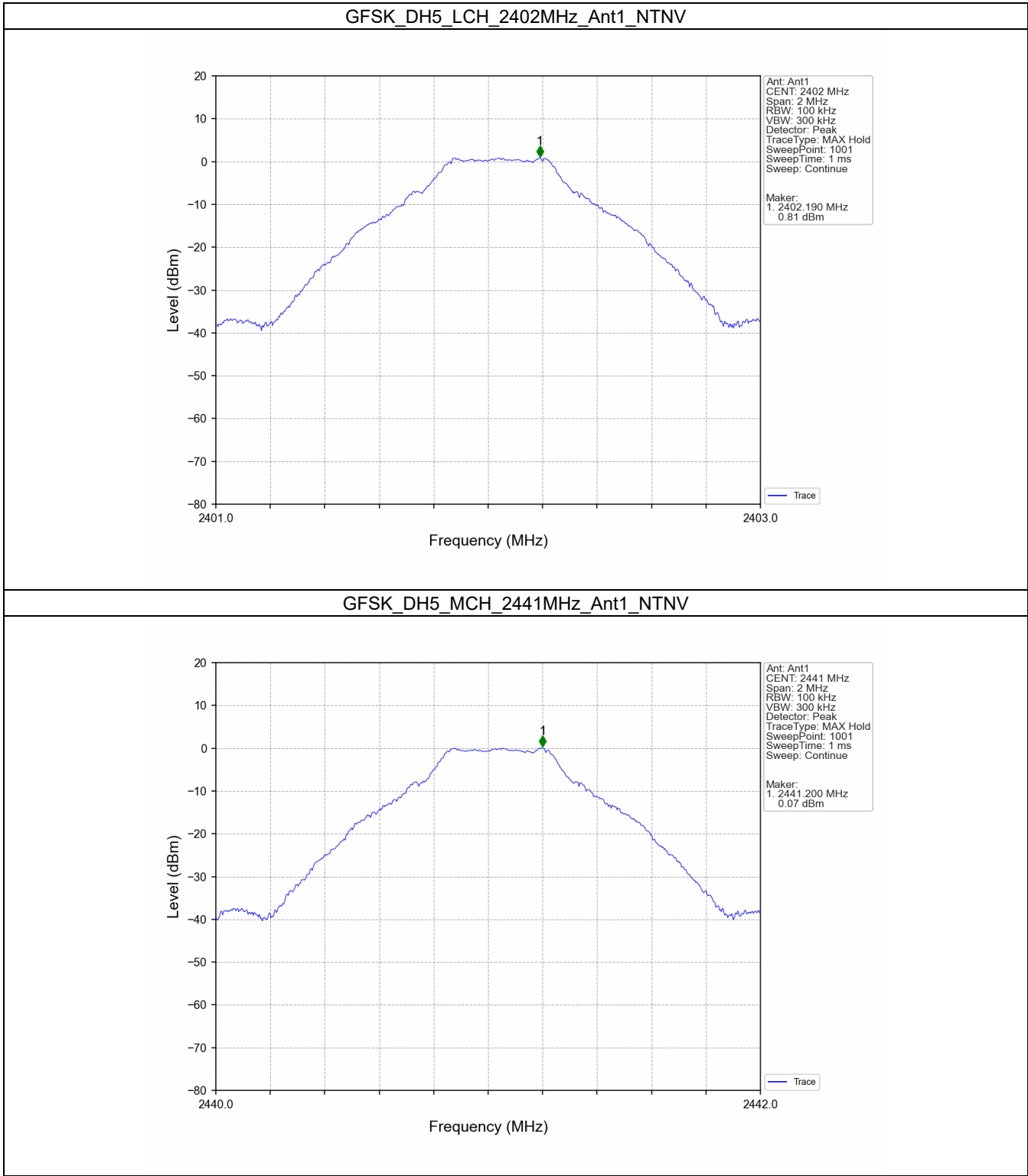
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.81                     |
|           |         | 2441            | DH5         | 1   | 0.07                     |
|           |         | 2480            | DH5         | 1   | -1.09                    |
|           |         | HOPP            | DH5         | 1   | 0.84                     |
|           |         |                 |             |     | 0.84                     |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 0.99                     |
|           |         | 2441            | 2DH5        | 1   | 0.14                     |
|           |         | 2480            | 2DH5        | 1   | -1.09                    |
|           |         | HOPP            | 2DH5        | 1   | 0.92                     |
|           |         |                 |             |     | 0.92                     |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.00                     |
|           |         | 2441            | 3DH5        | 1   | 0.02                     |
|           |         | 2480            | 3DH5        | 1   | -1.12                    |
|           |         | HOPP            | 3DH5        | 1   | 0.81                     |
|           |         |                 |             |     | 0.81                     |

#### 6.1.2 CSE

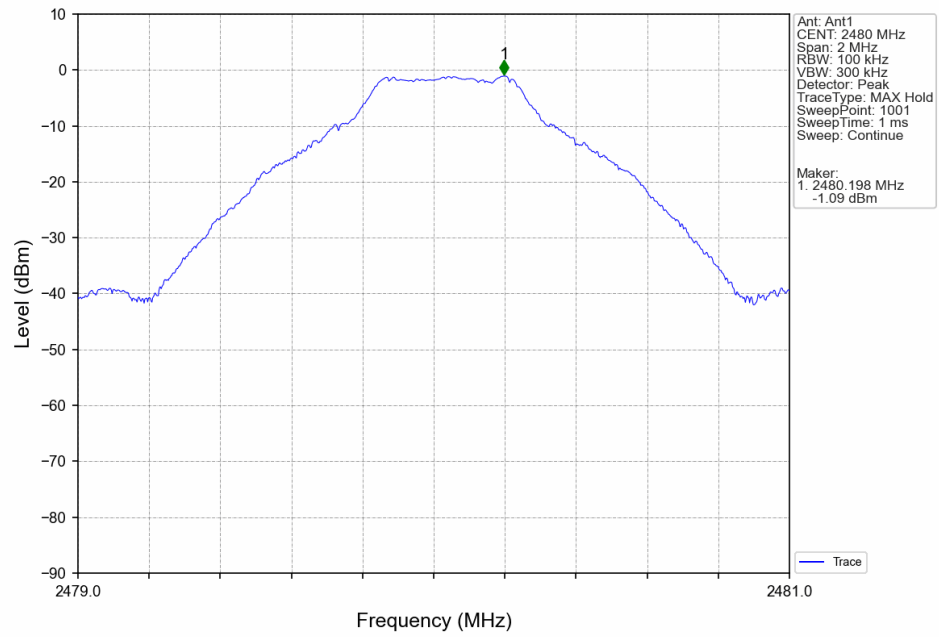
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.81                     | -19.19      | Pass    |
|           |         | 2441            | DH5         | 1   | 0.07                     | -19.93      | Pass    |
|           |         | 2480            | DH5         | 1   | -1.09                    | -21.09      | Pass    |
|           |         | HOPP            | DH5         | 1   | 0.84                     | -19.16      | Pass    |
|           |         |                 |             |     | 0.84                     | -19.16      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 0.99                     | -19.01      | Pass    |
|           |         | 2441            | 2DH5        | 1   | 0.14                     | -19.86      | Pass    |
|           |         | 2480            | 2DH5        | 1   | -1.09                    | -21.09      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 0.92                     | -19.08      | Pass    |
|           |         |                 |             |     | 0.92                     | -19.08      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.00                     | -19.00      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 0.02                     | -19.98      | Pass    |
|           |         | 2480            | 3DH5        | 1   | -1.12                    | -21.12      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 0.81                     | -19.19      | Pass    |
|           |         |                 |             |     | 0.81                     | -19.19      | Pass    |

6.2 Test Graph

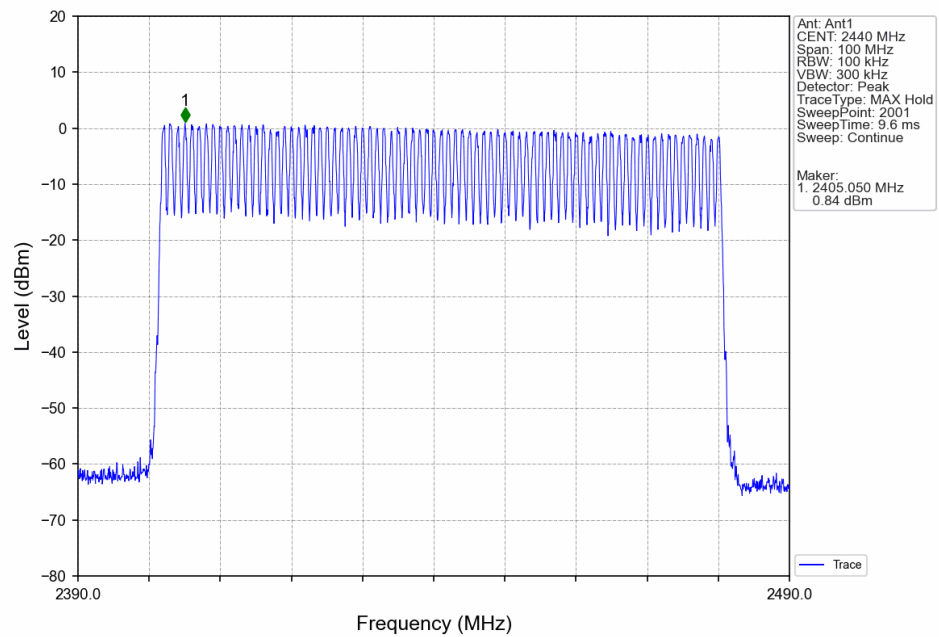
6.2.1 Ref



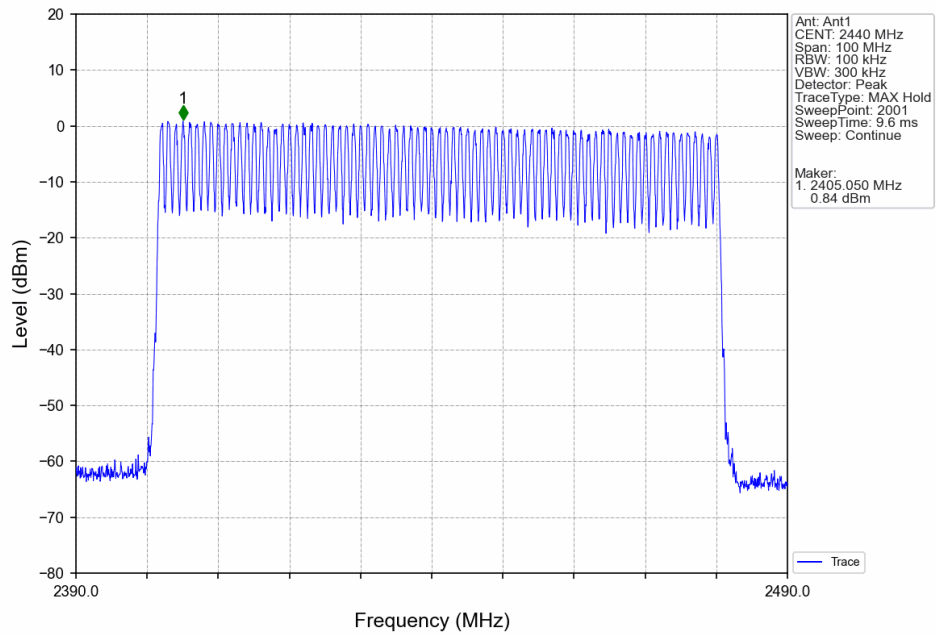
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



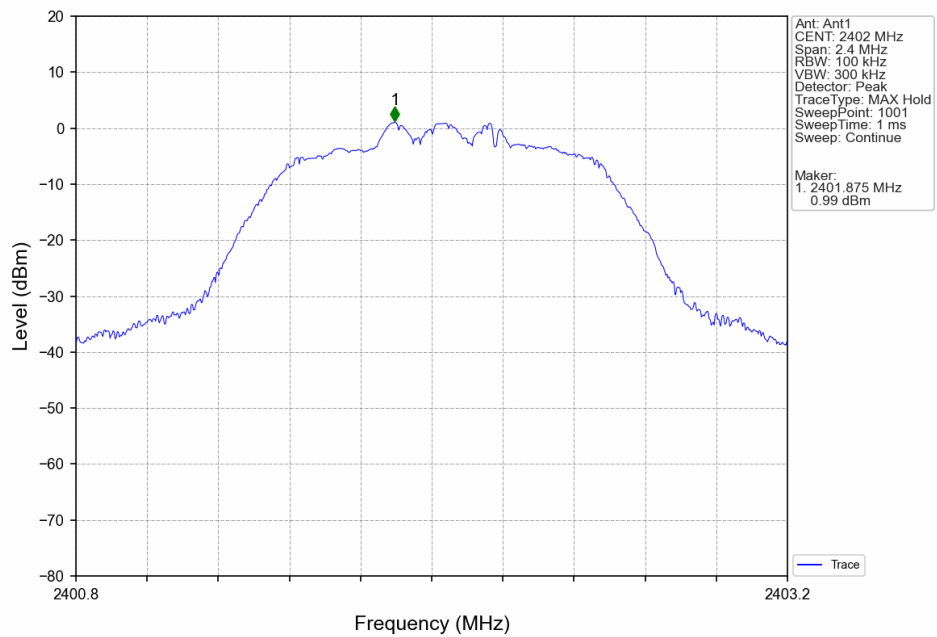
# GFSK\_DH5\_HOPP\_2440MHz\_Ant1\_NTNV



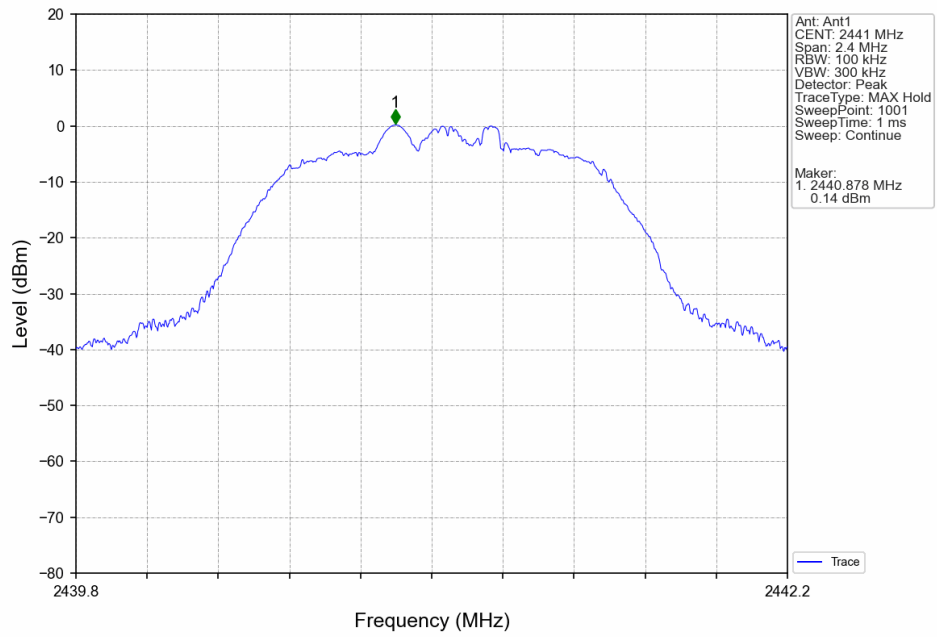
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



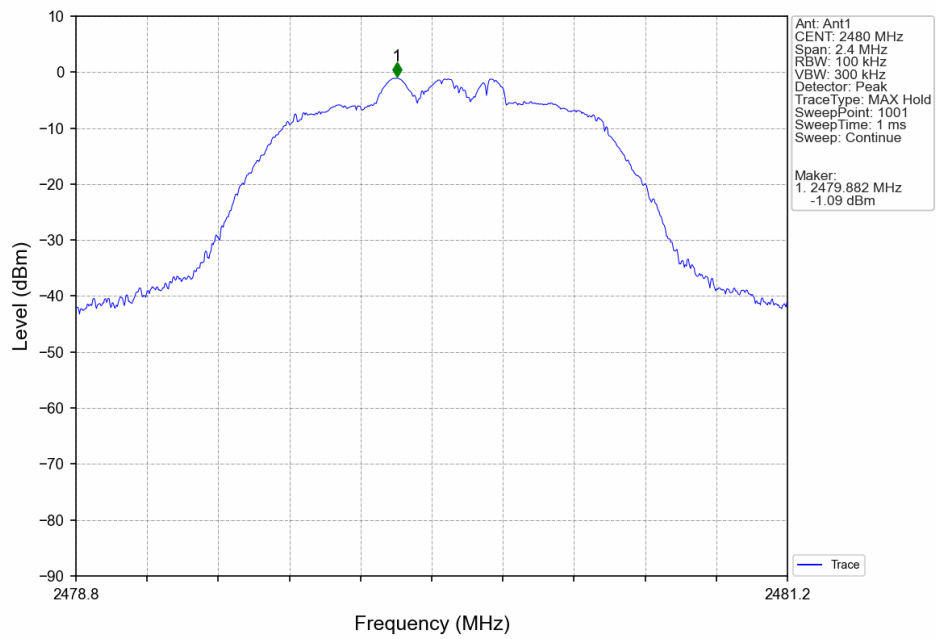
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



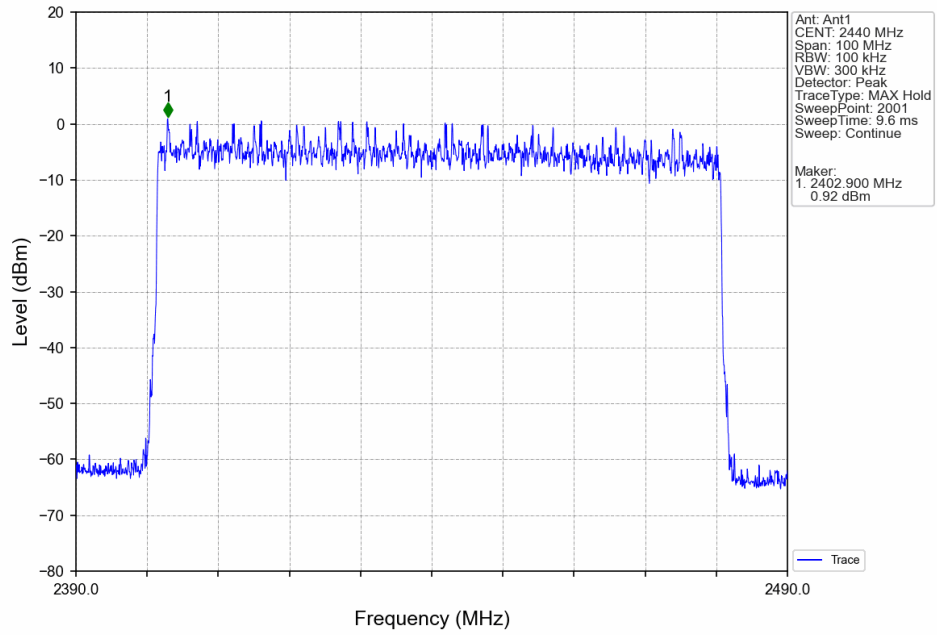
# Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



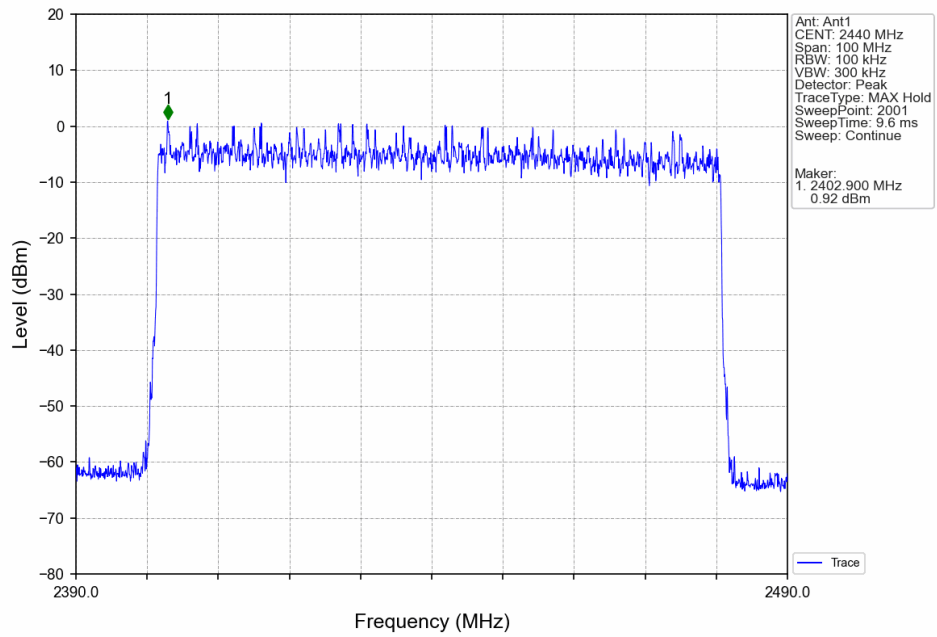
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



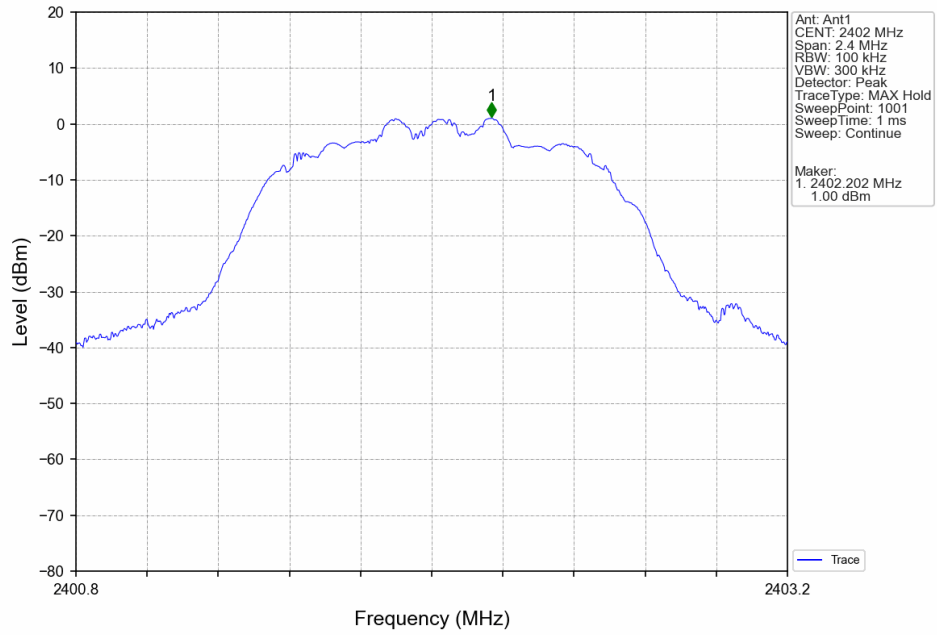
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



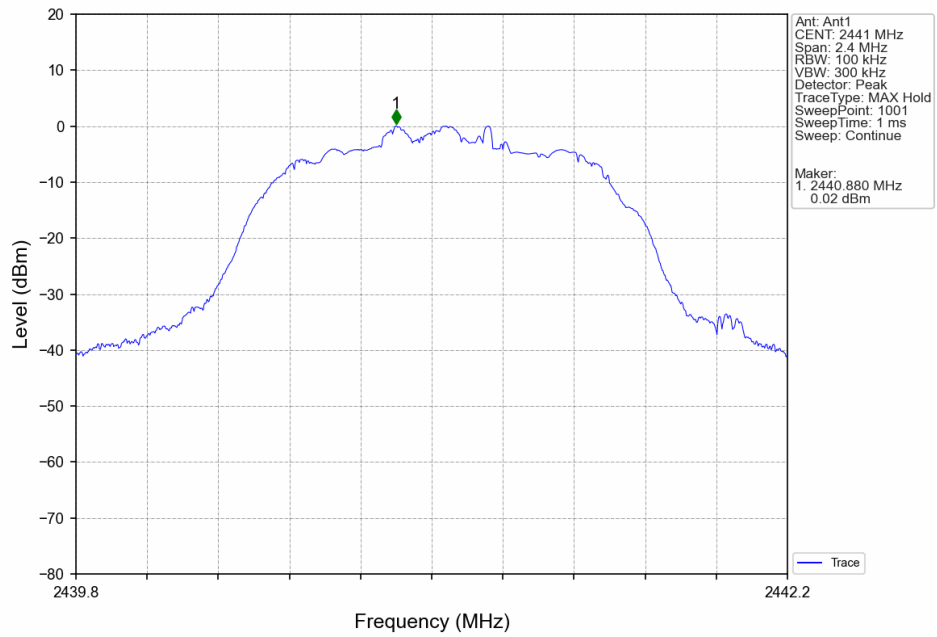
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



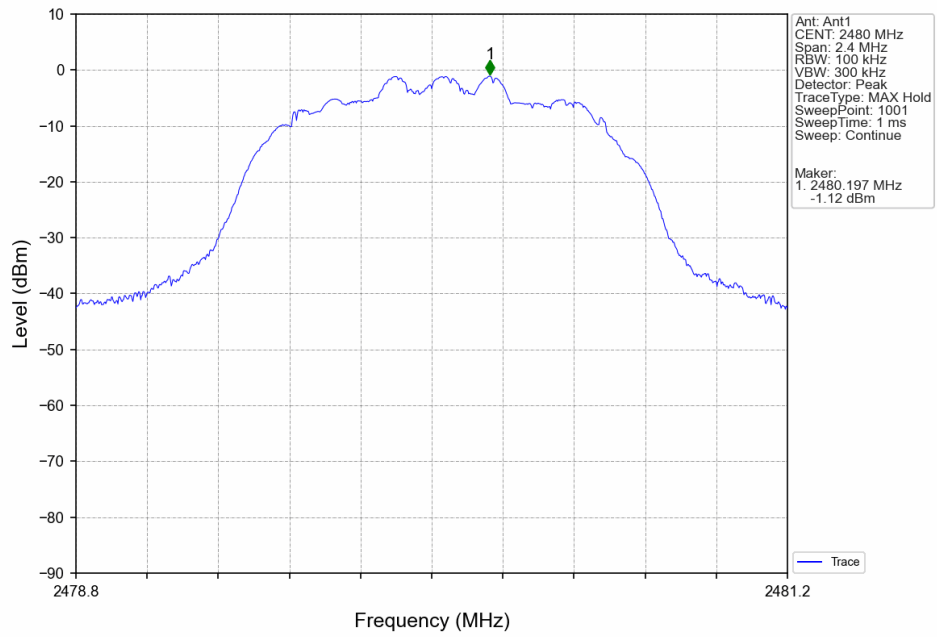
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



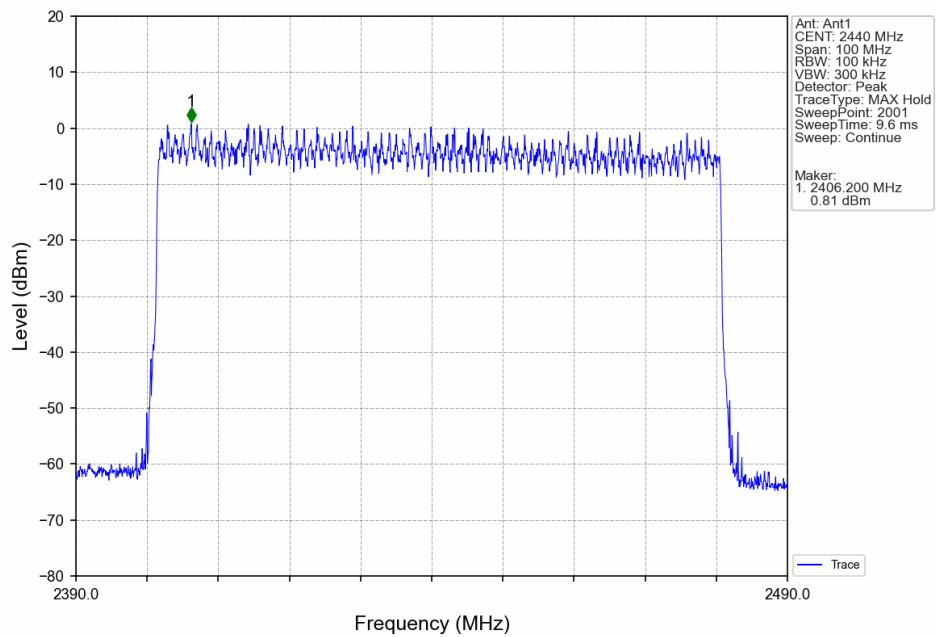
# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



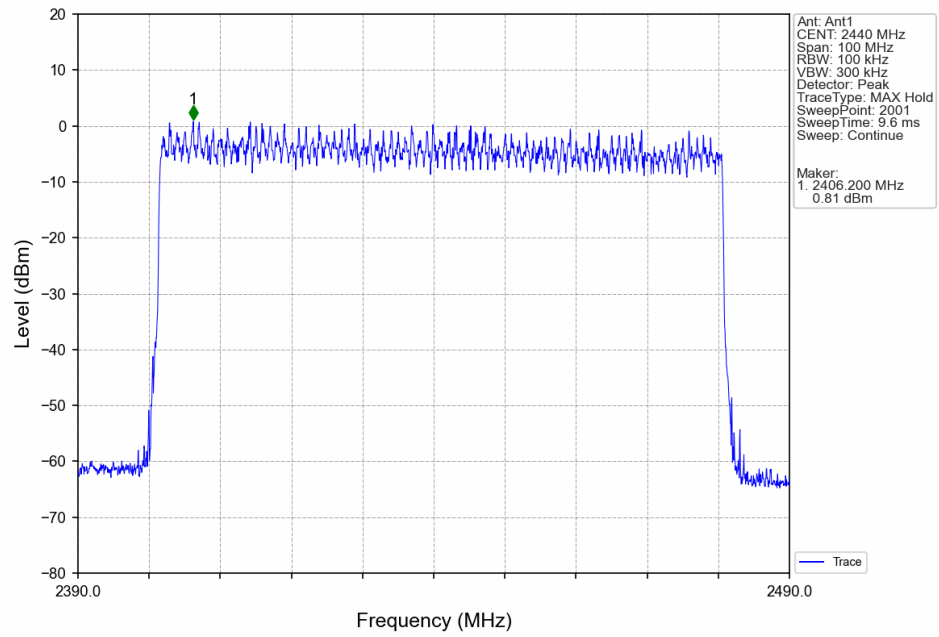
### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



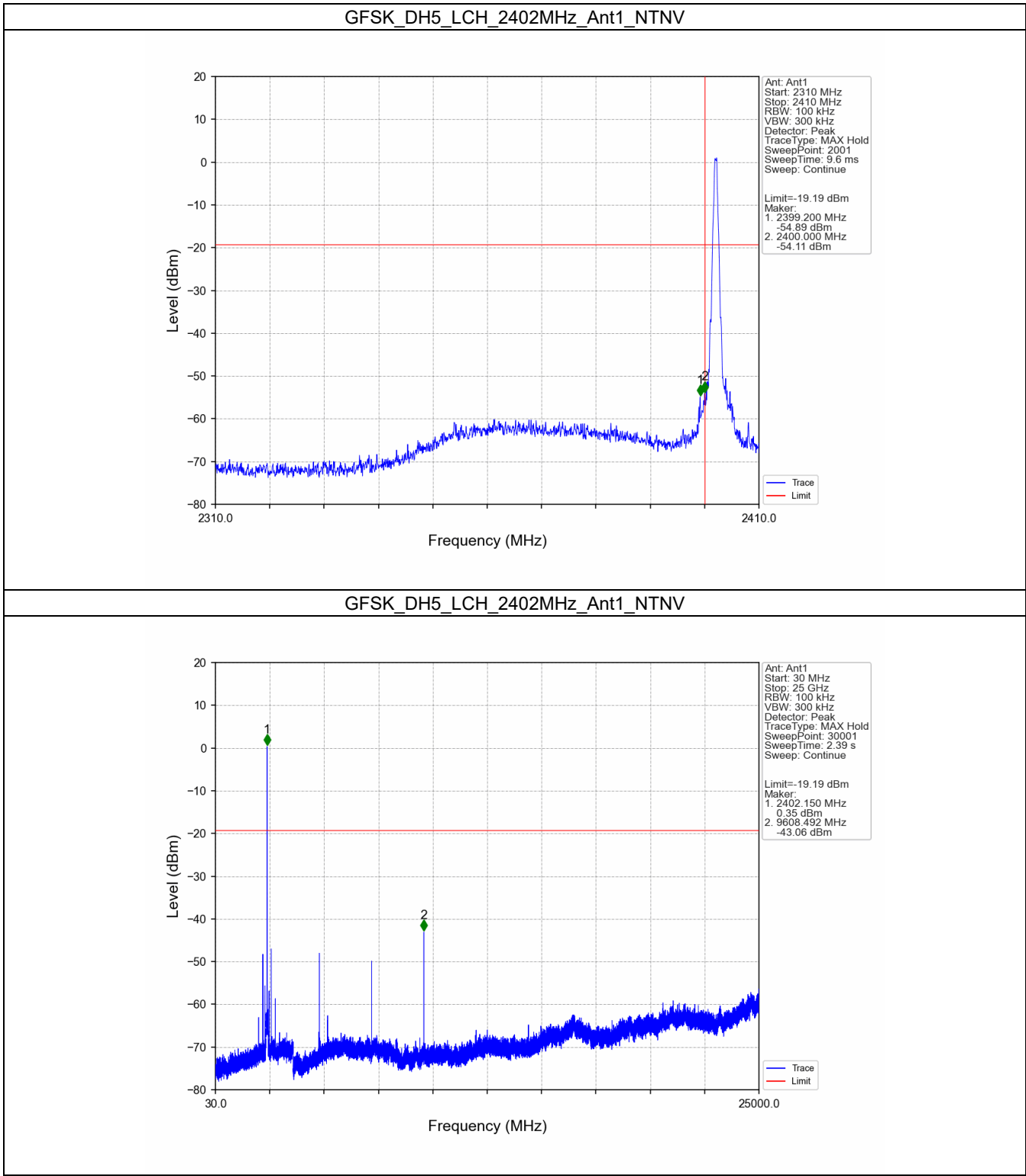
### 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



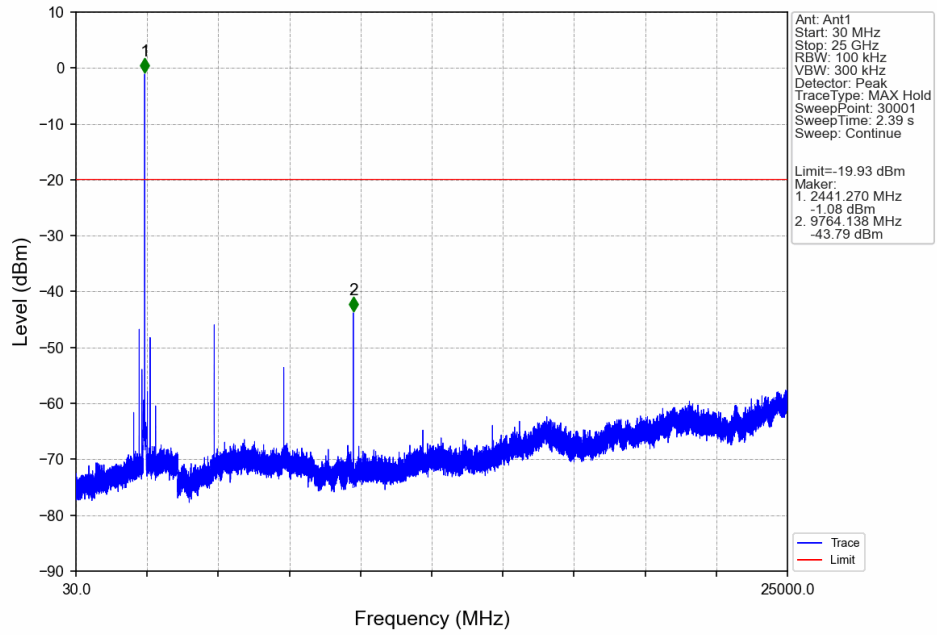
# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



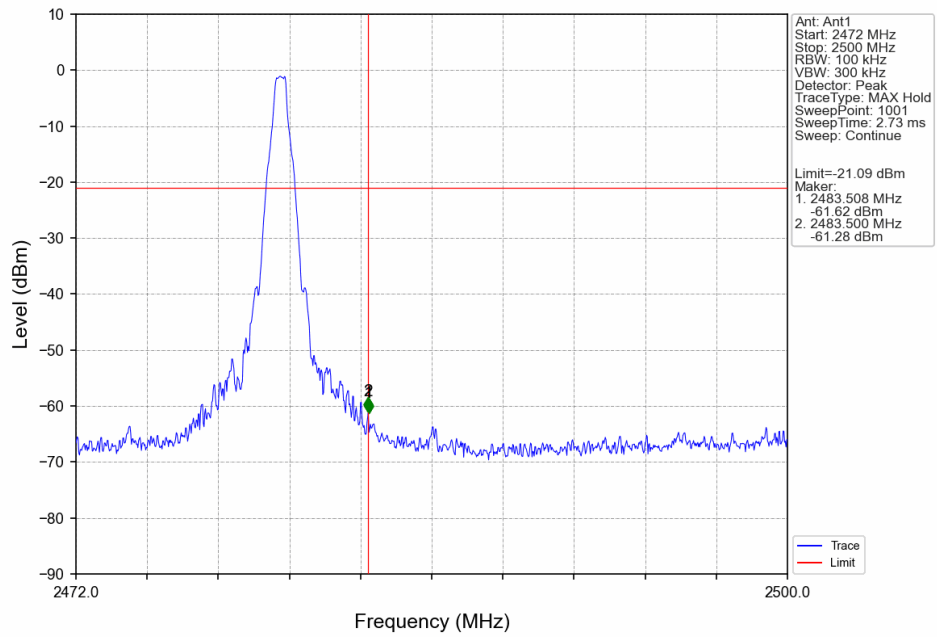
6.2.2 CSE



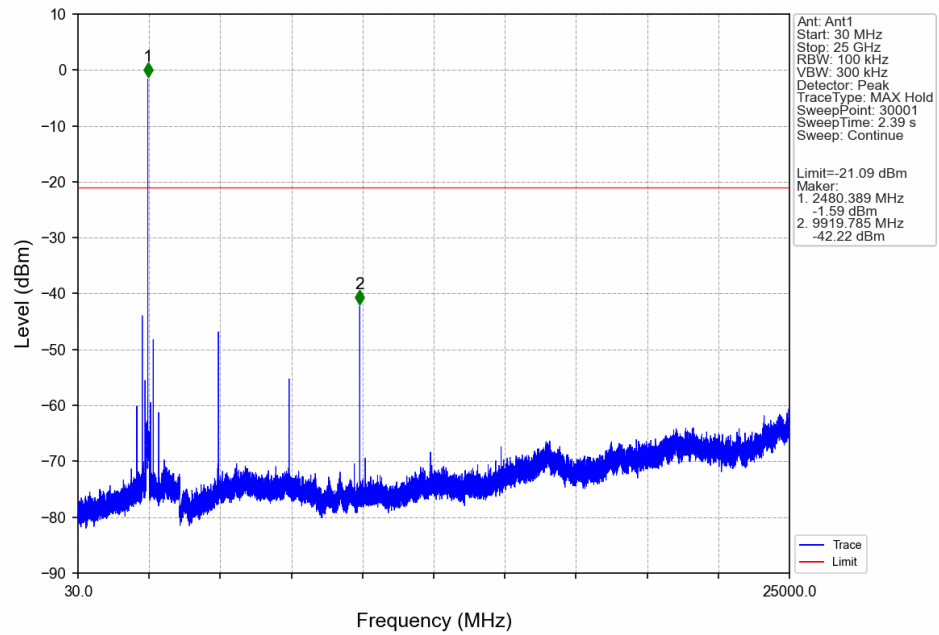
# GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



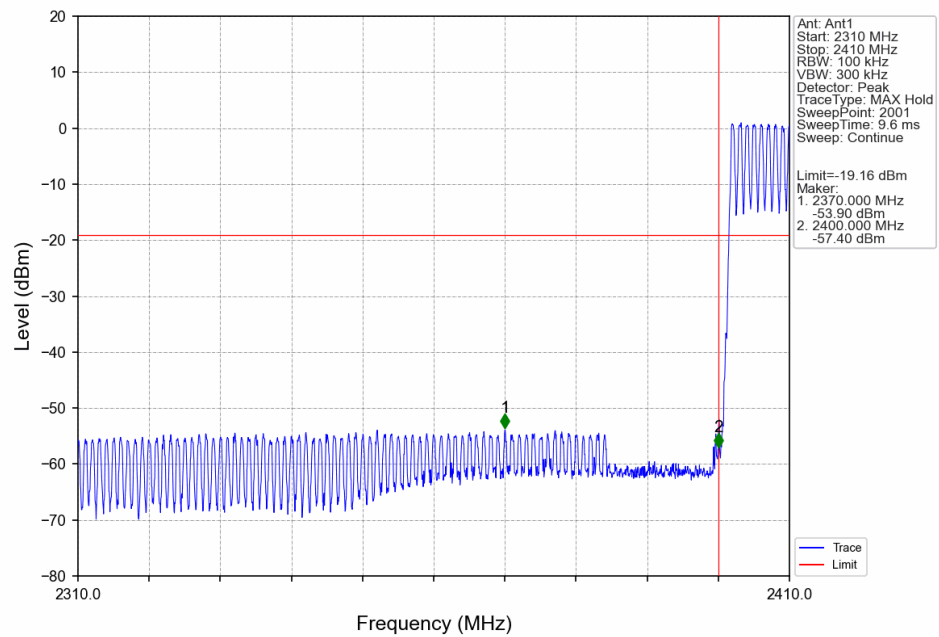
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



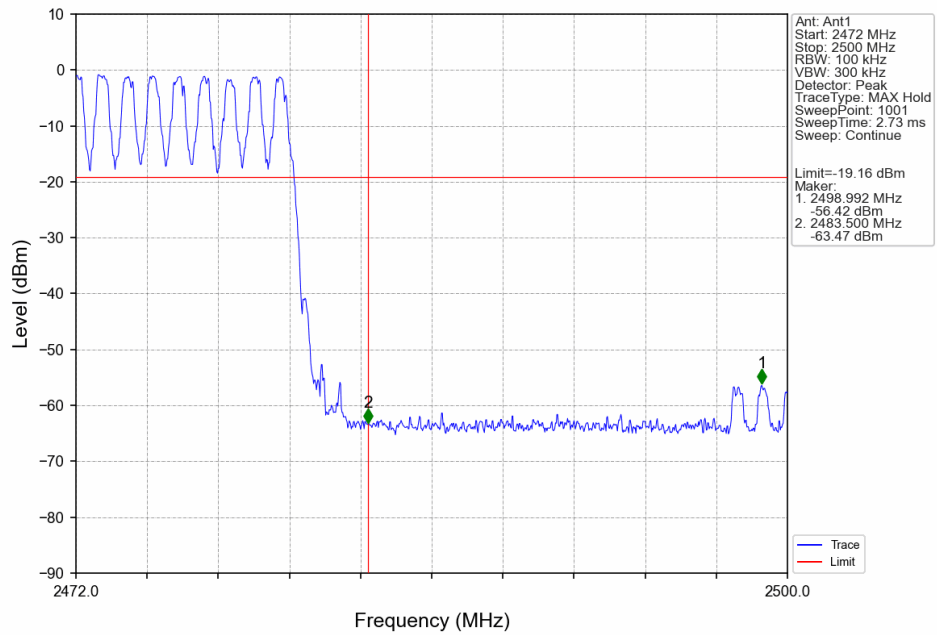
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



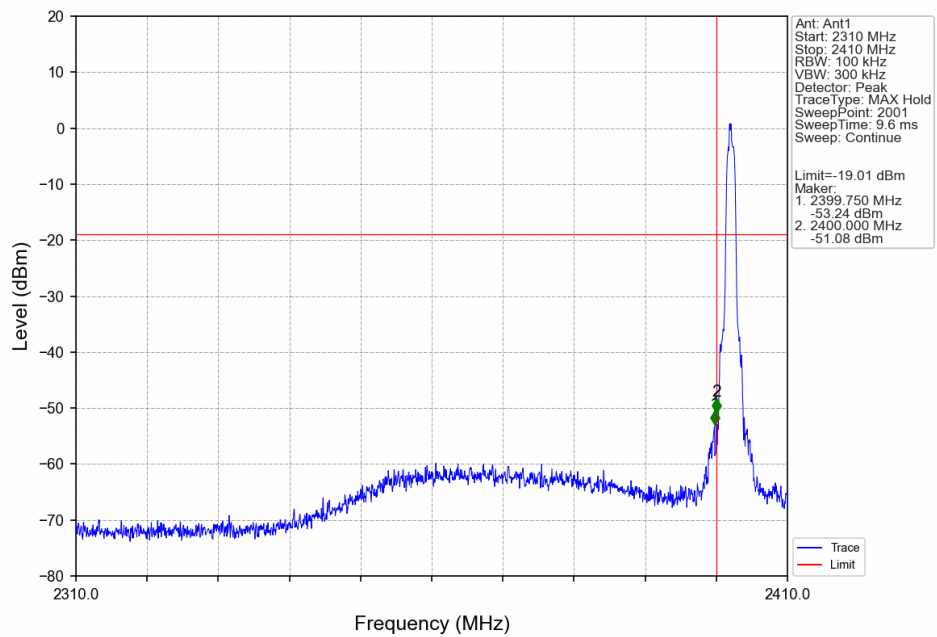
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



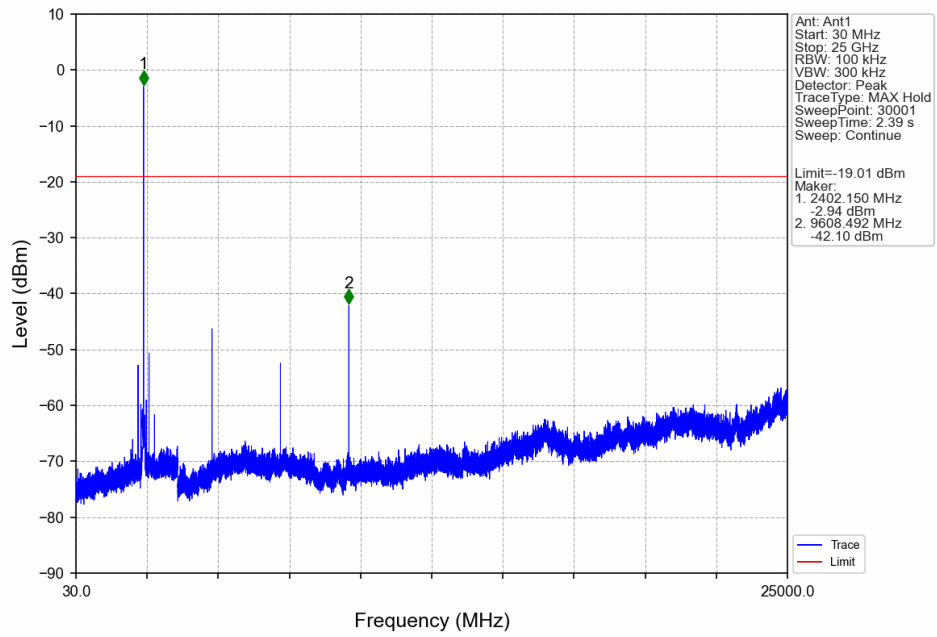
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



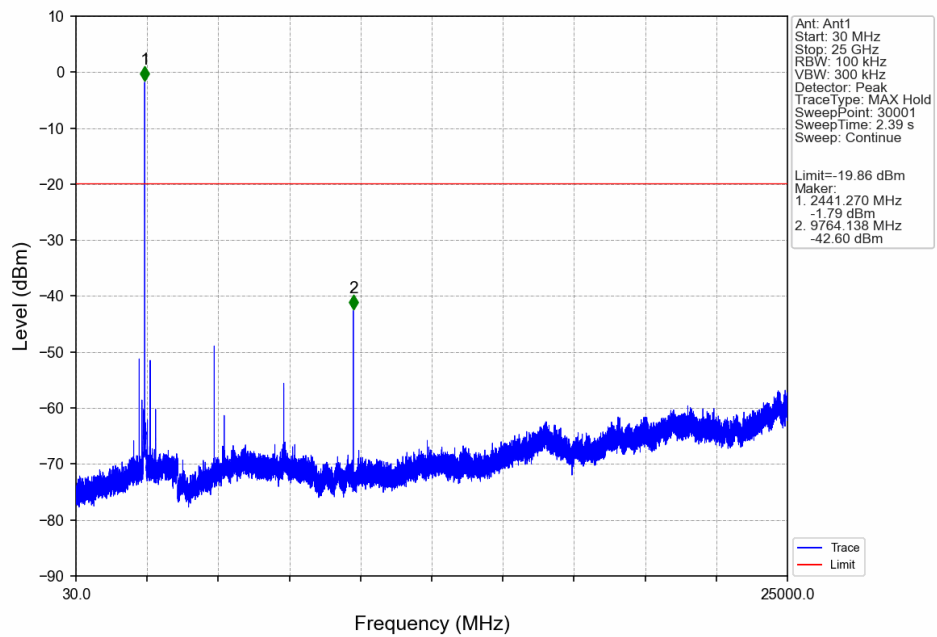
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



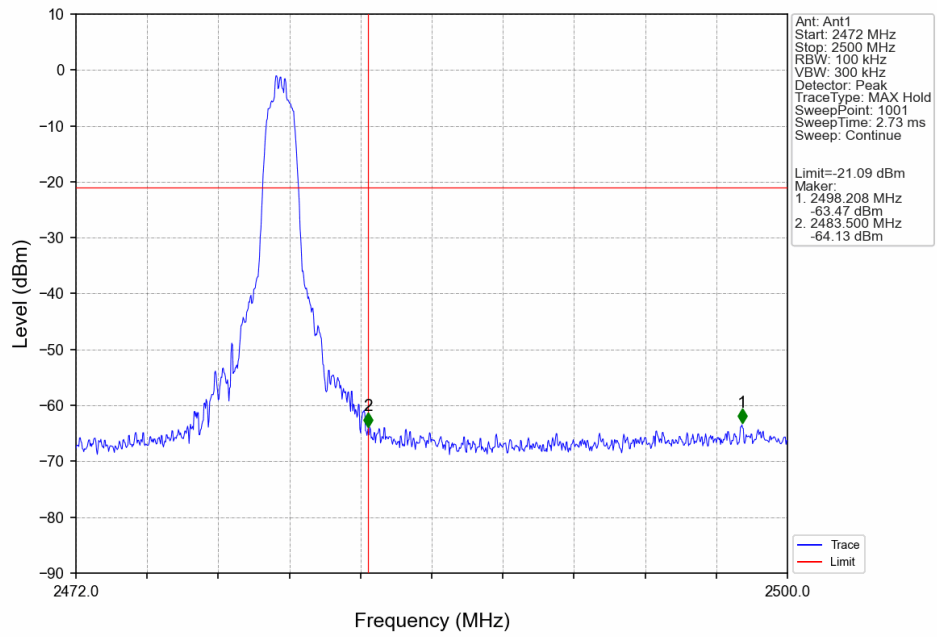
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



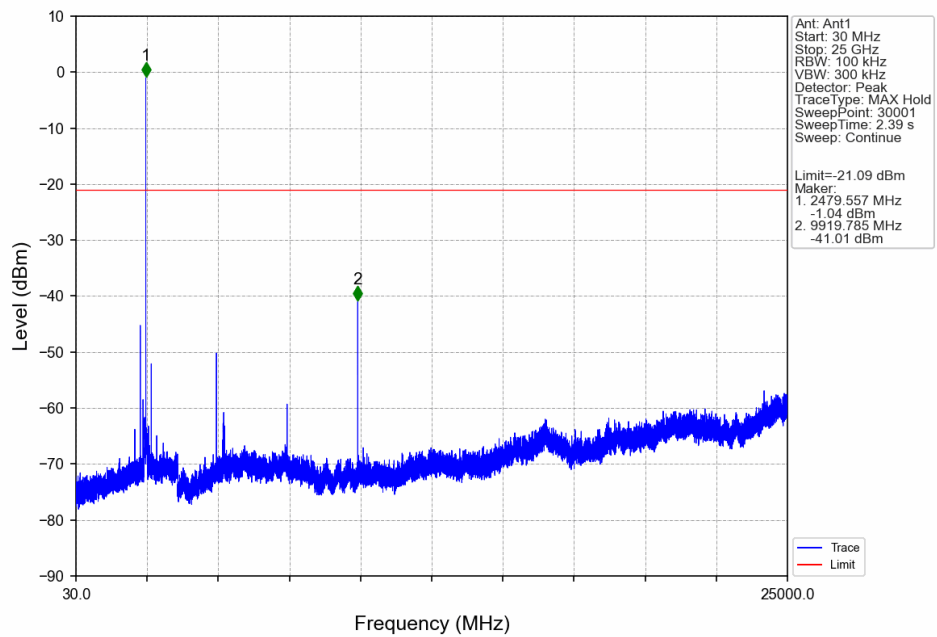
# Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



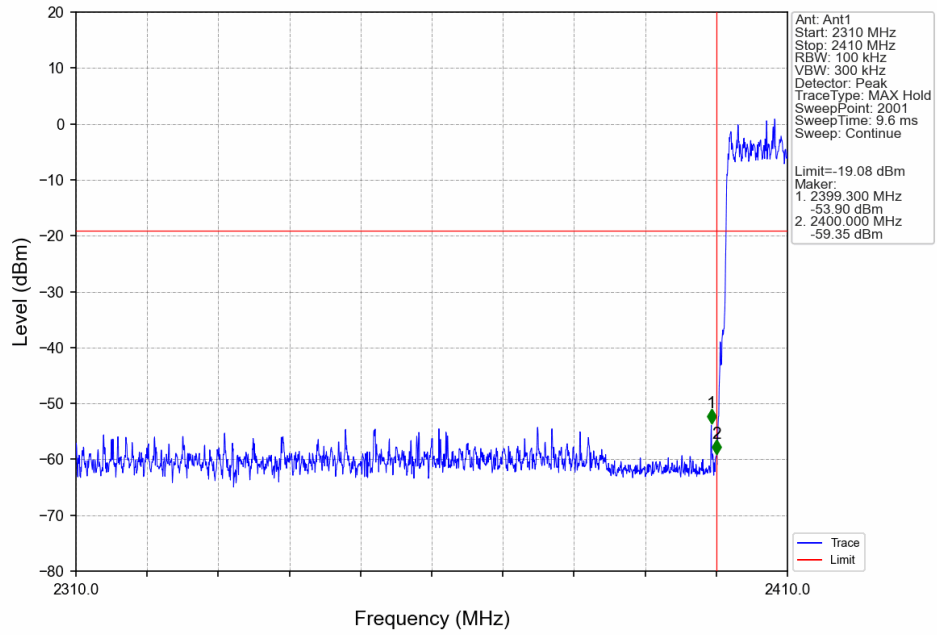
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



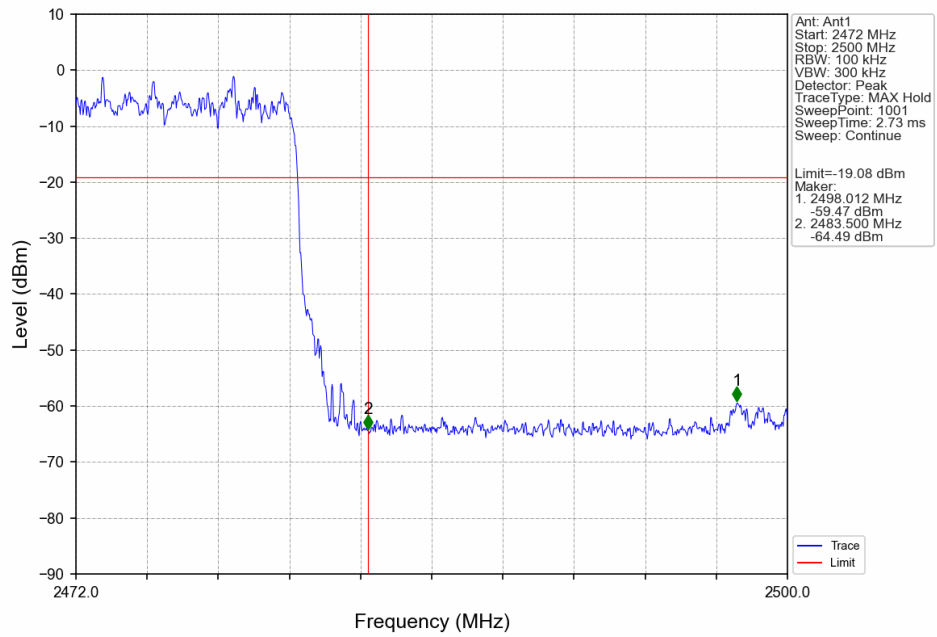
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



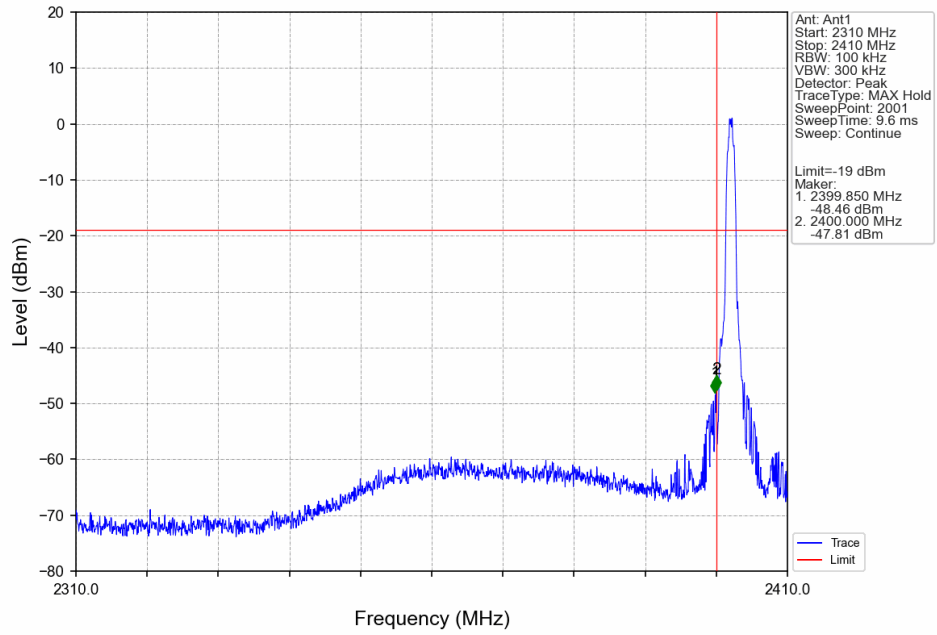
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



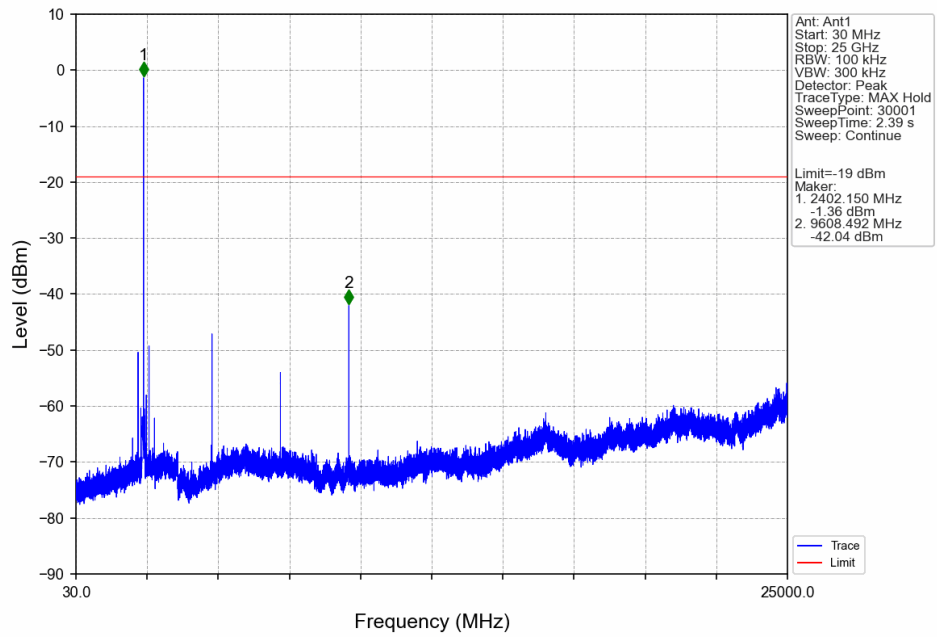
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



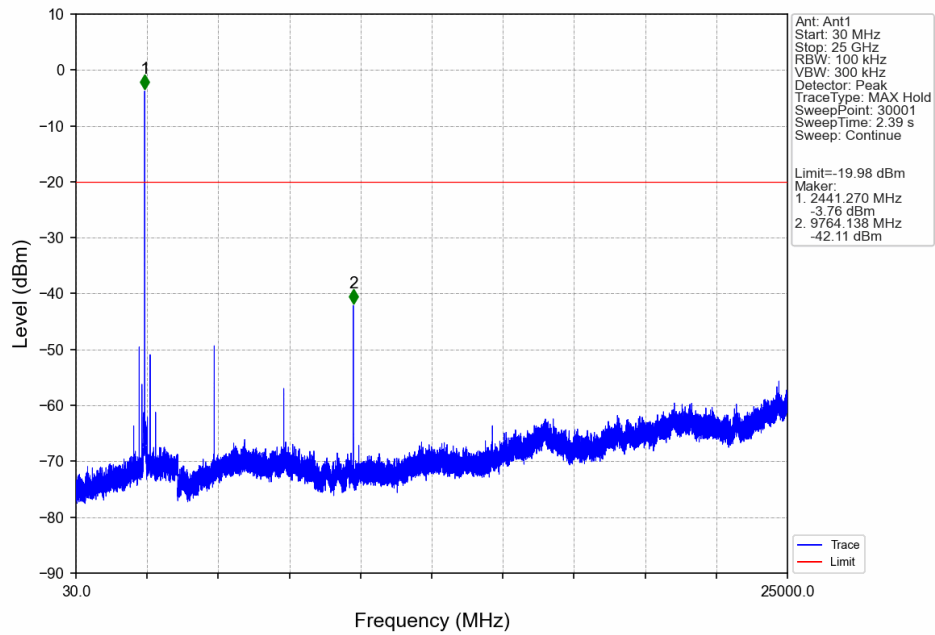
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



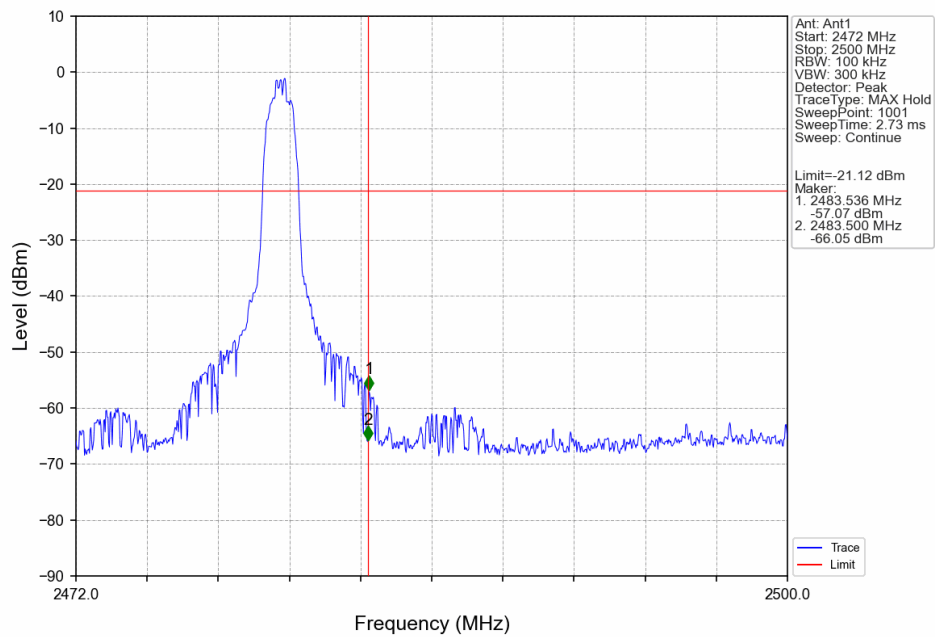
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



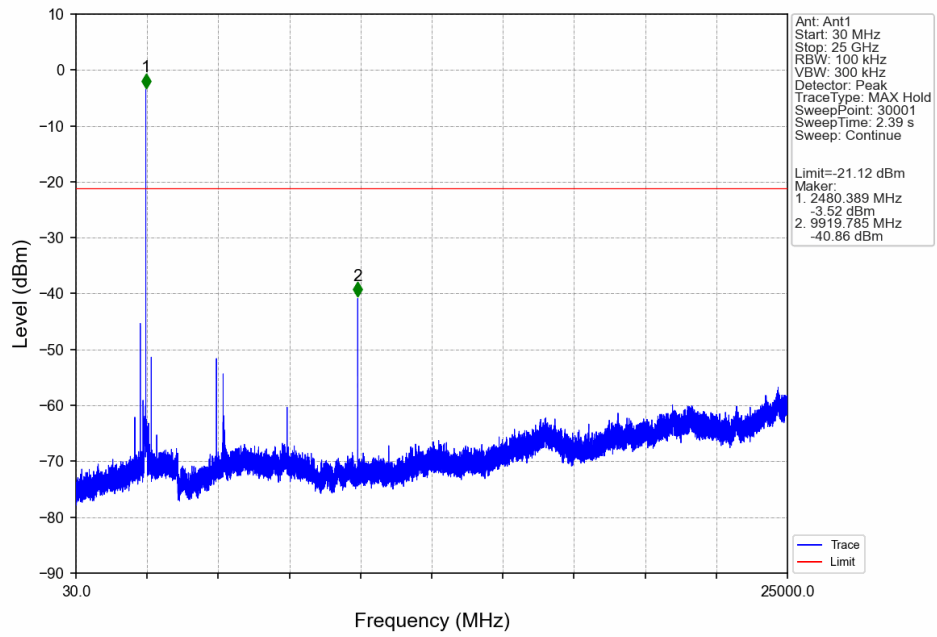
# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



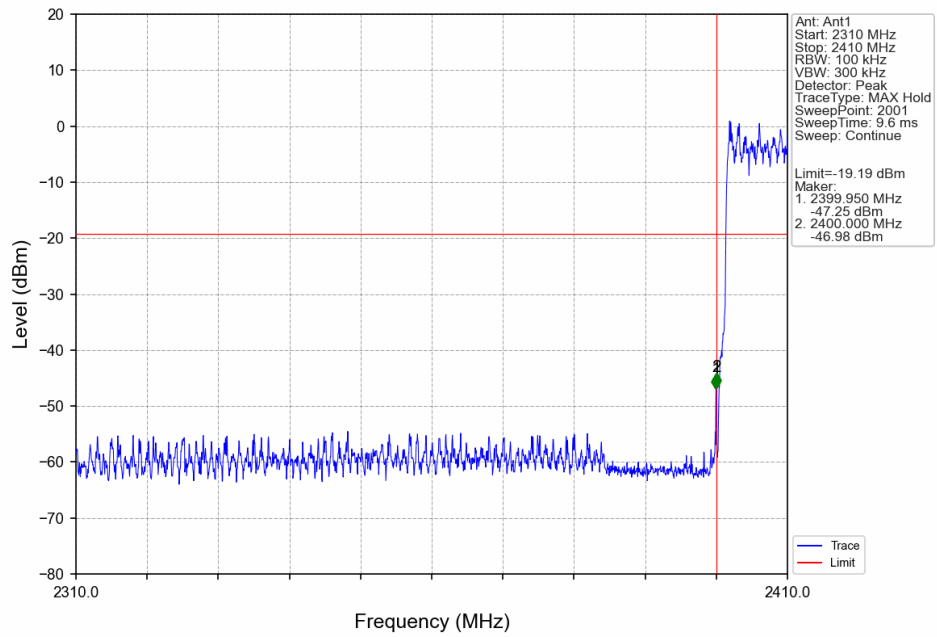
# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



8DPSK\_3DH5\_HOPP\_Ant1\_NTNV

