

# ANNEX DATA EDR

## FCC ID: 2AKQQ0103

Applicant: Shenzhen KingWear Intelligent Technology Co.,Ltd

Address: 41st F,BLDG A,Longhua District Digital Innovation Center, Mingtang Road 328, Minzhi Street, Longhua, Shenzhen, China

Manufacturer: Shenzhen KingWear Intelligent Technology Co.,Ltd

Address: 41st F,BLDG A,Longhua District Digital Innovation Center, Mingtang Road 328, Minzhi Street, Longhua, Shenzhen, China

Product Name: SMART WATCH

Trade Mark: N/A

Model Number: KW311B, KW311A

Date of Receipt: Aug. 27, 2026

Test Date: Aug. 27, 2026 - Sep. 10, 2026

Date of Report: Sep. 10, 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

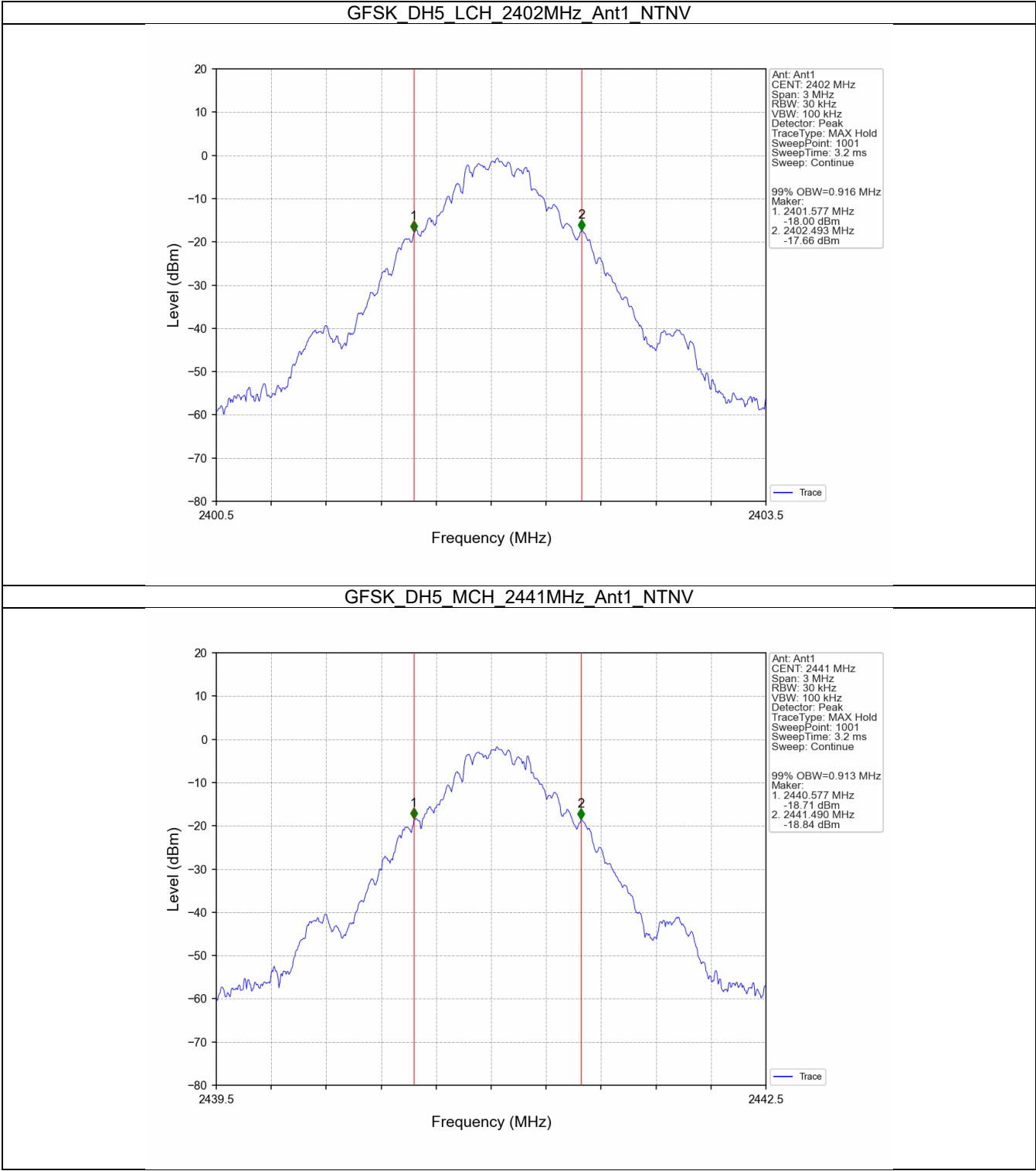
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|-------|---------|
|           |         |                 |             |     | Result                       | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.916                        | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 0.913                        | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 0.903                        | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.198                        | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.202                        | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.187                        | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.192                        | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.203                        | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.198                        | /     | Pass    |

#### 1.1.2 20dB BW

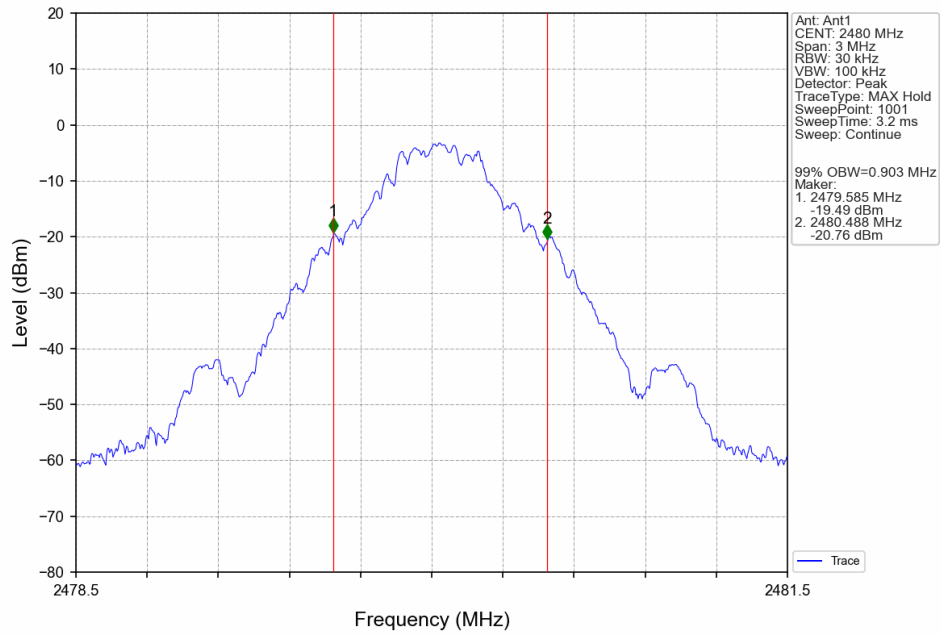
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|-------|---------|
|           |         |                 |             |     | Result               | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 1.030                | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 1.041                | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 1.028                | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.298                | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.322                | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.316                | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.306                | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.304                | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.303                | /     | Pass    |

# 1.2 Test Graph

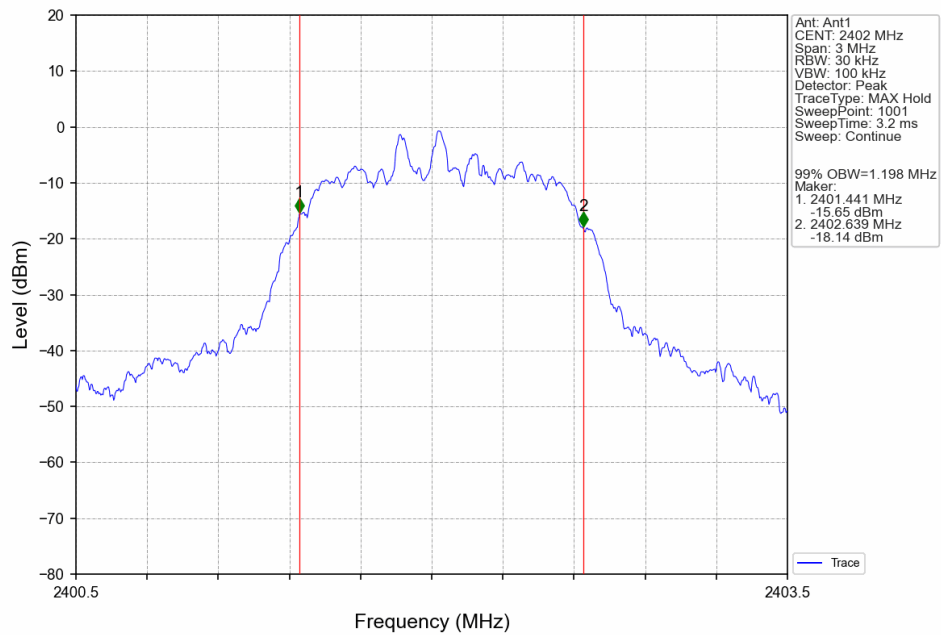
## 1.2.1 OBW



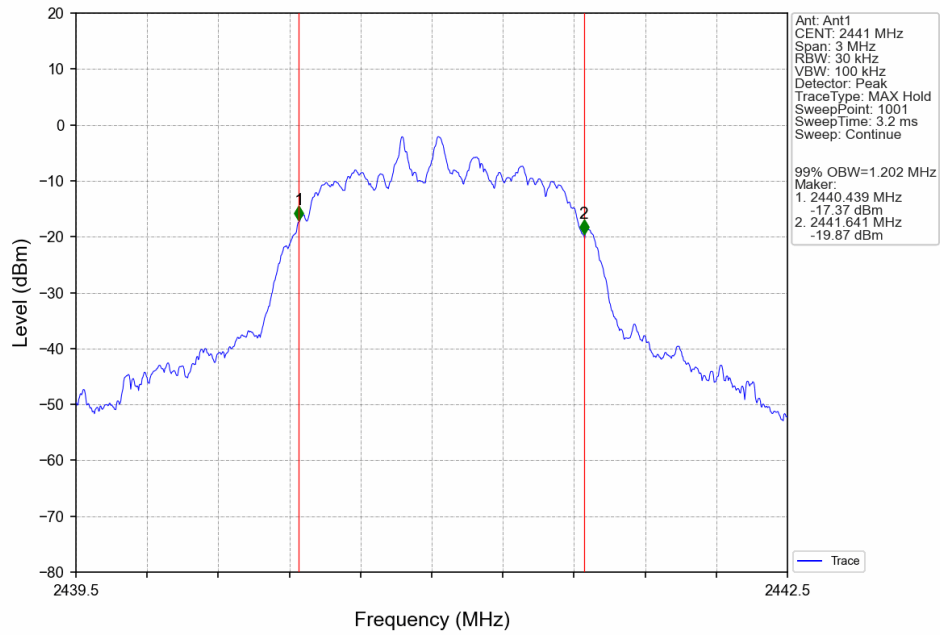
# GFSK DH5\_HCH\_2480MHz\_Ant1\_NTNV



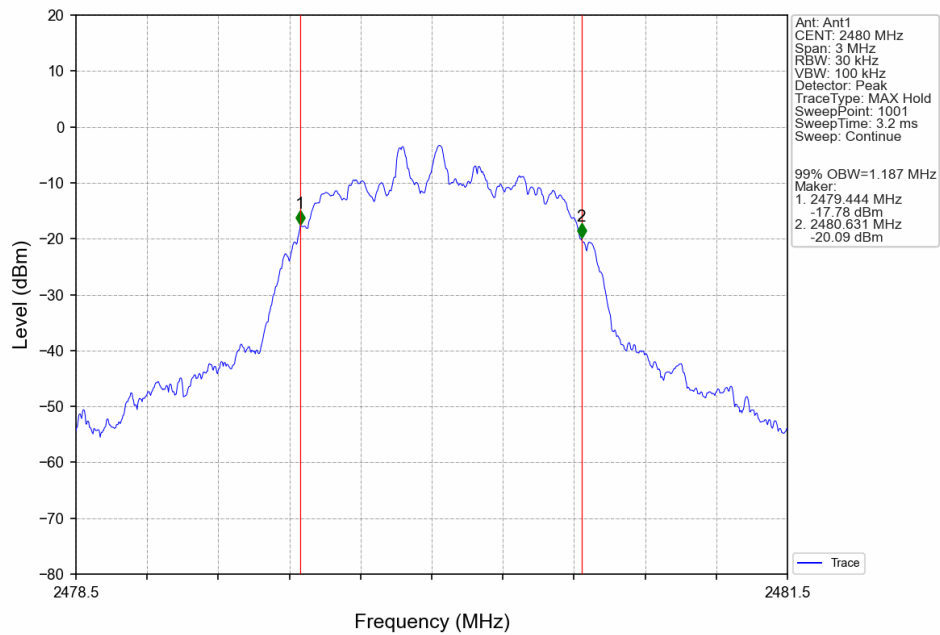
# Pi/4DQPSK 2DH5\_LCH\_2402MHz\_Ant1\_NTNV



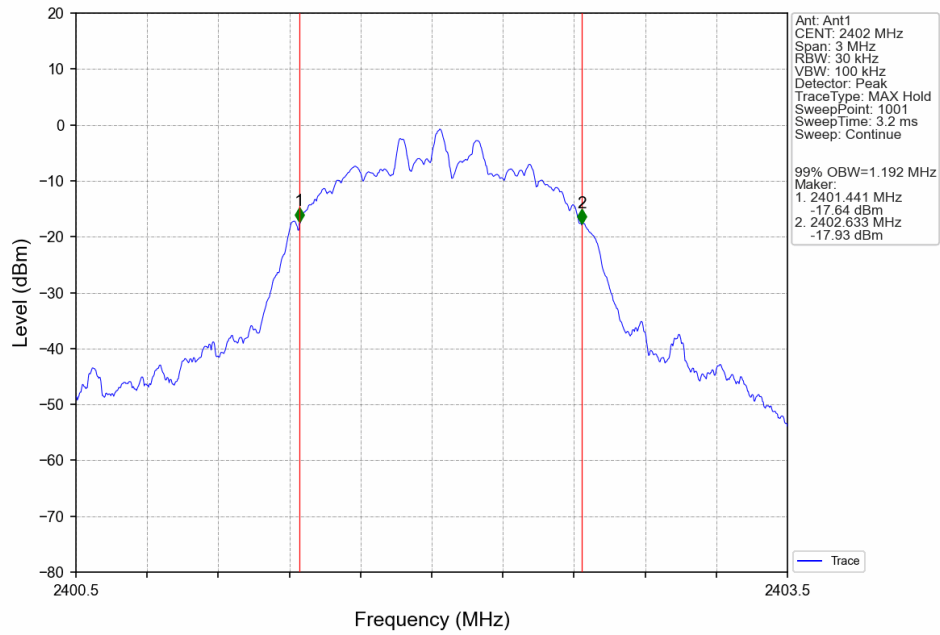
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



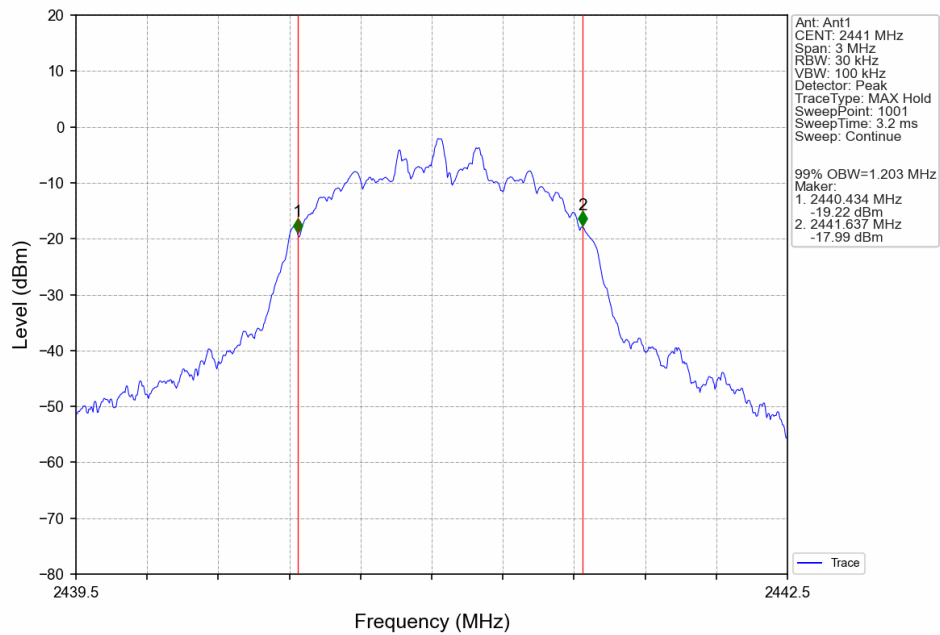
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



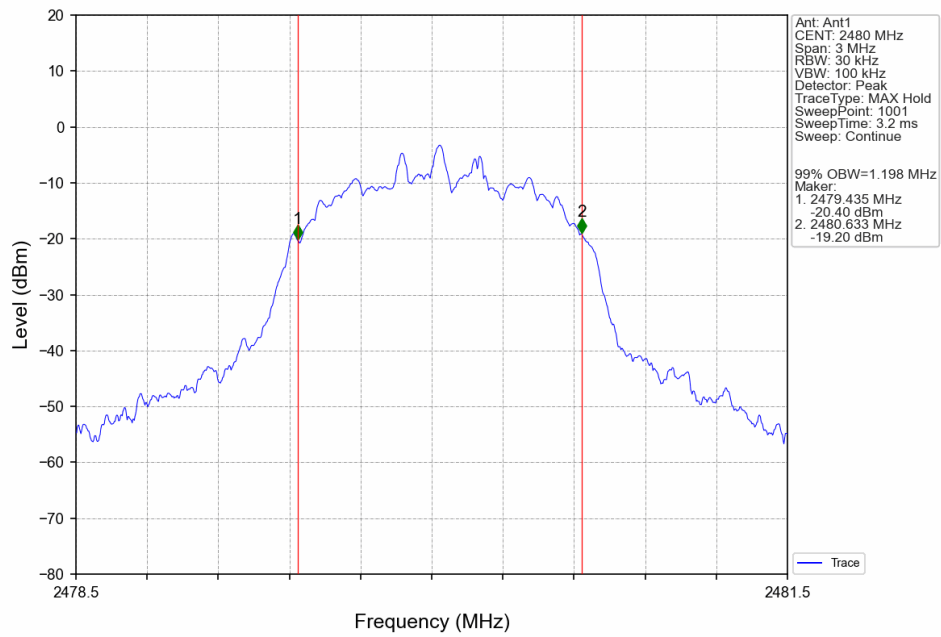
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



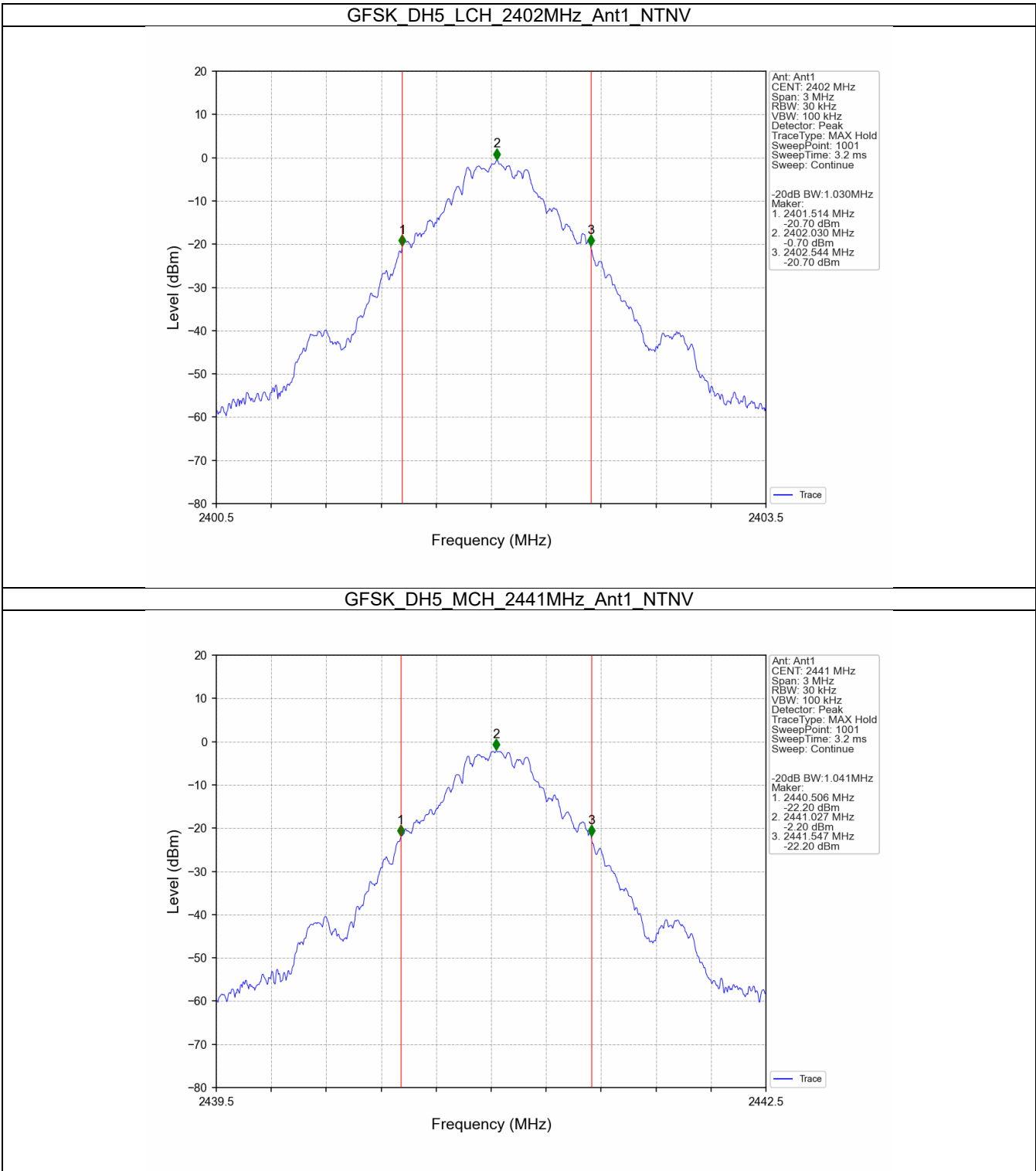
# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



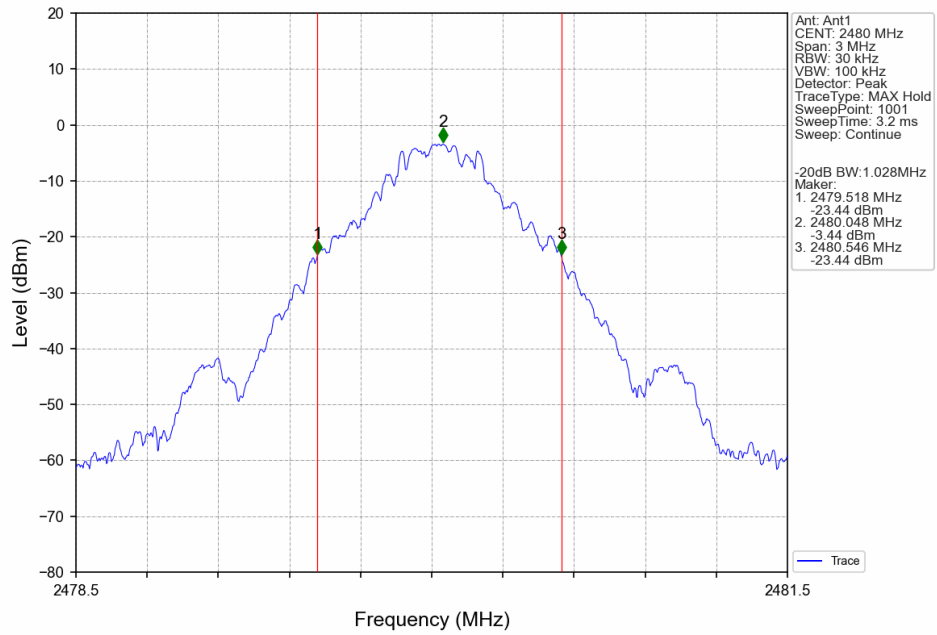
# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



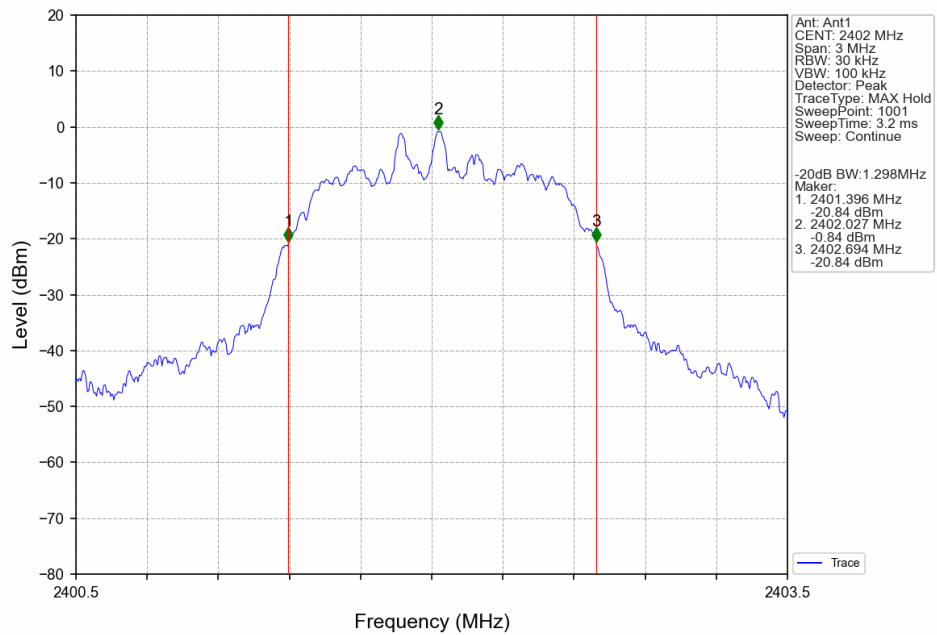
1.2.2 20dB BW



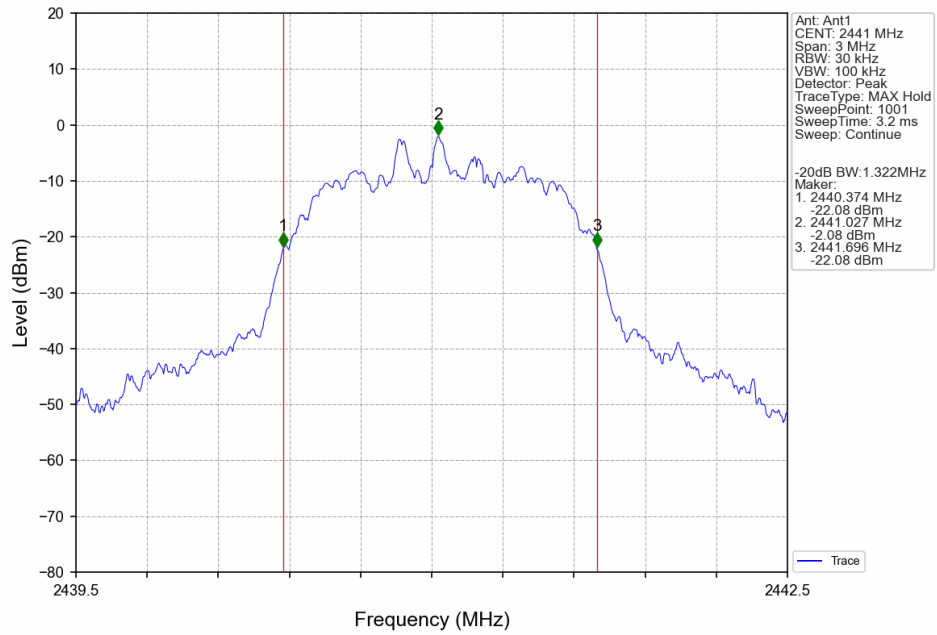
# GFSK DH5 HCH 2480MHz Ant1 NTN



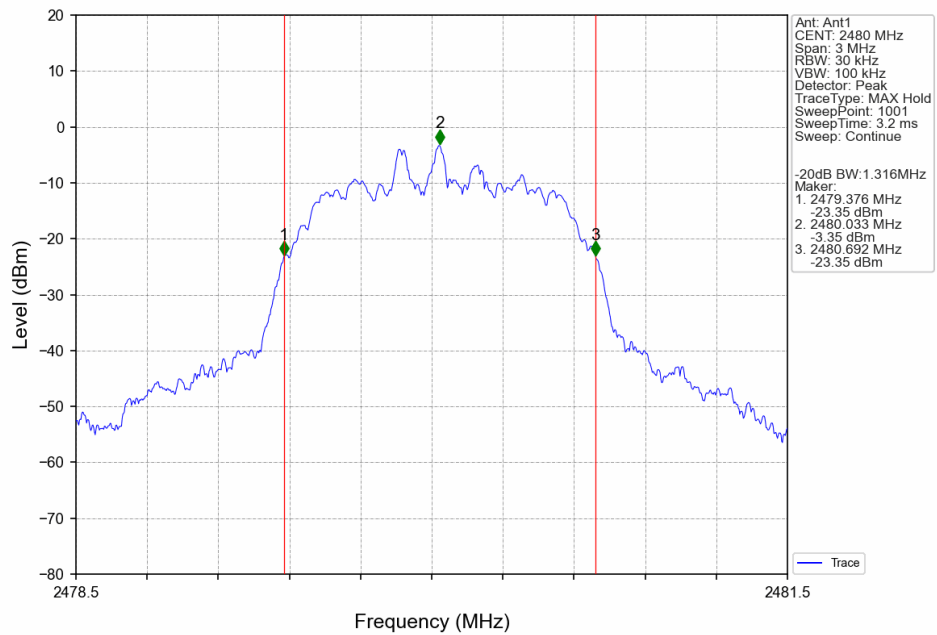
# Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



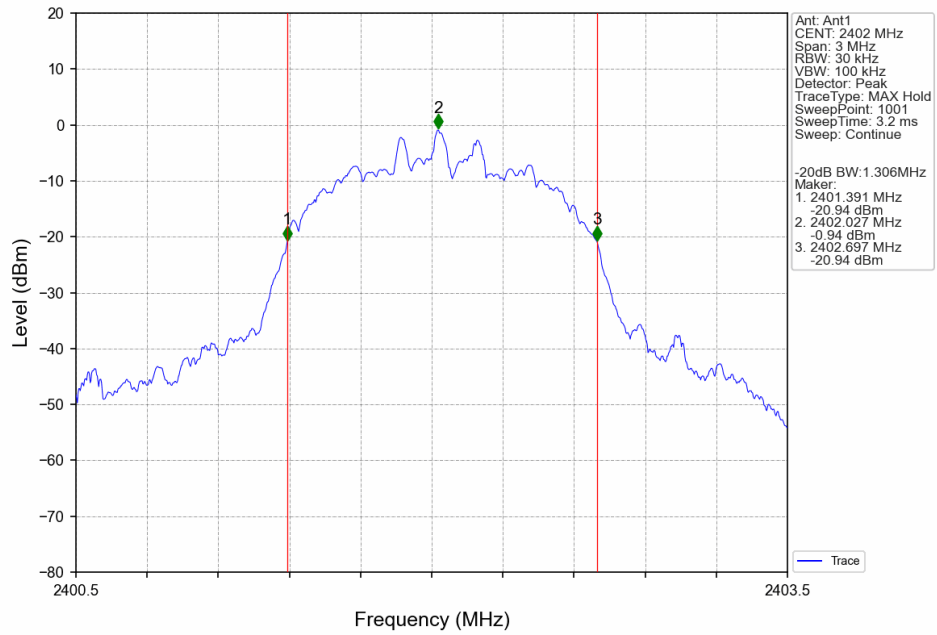
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



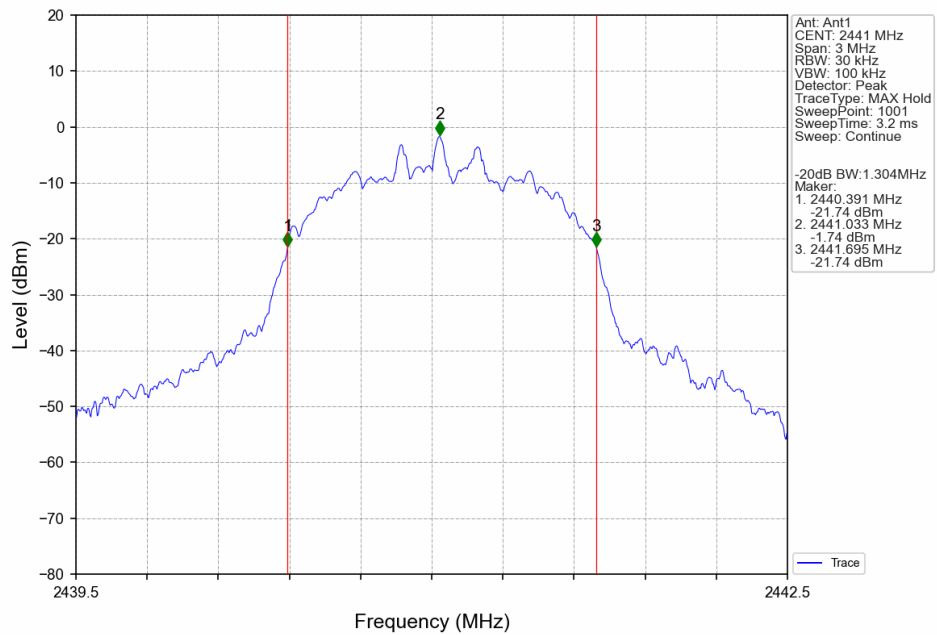
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



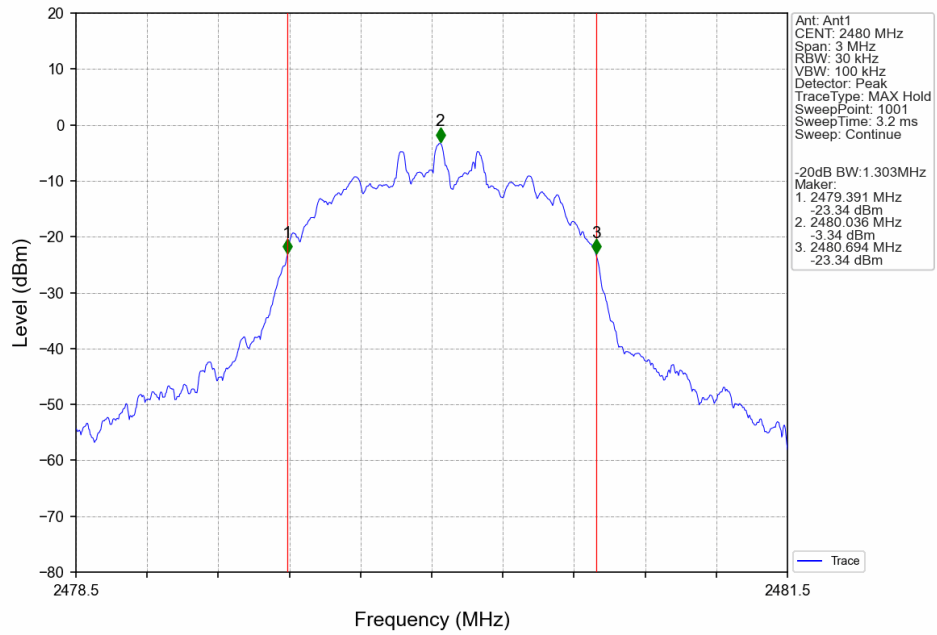
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



## 2. Maximum Conducted Output Power

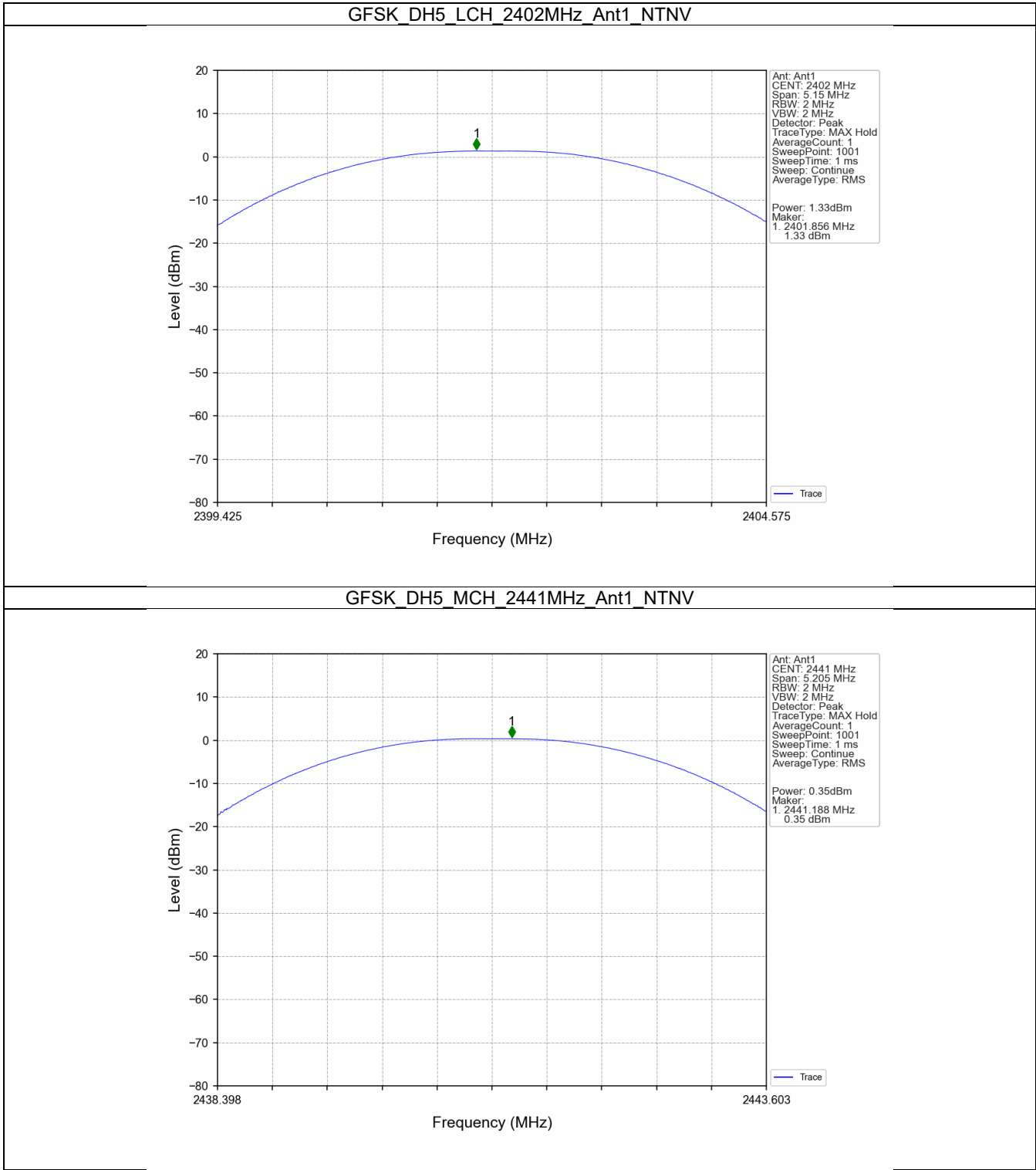
### 2.1 Test Result

#### 2.1.1 Power

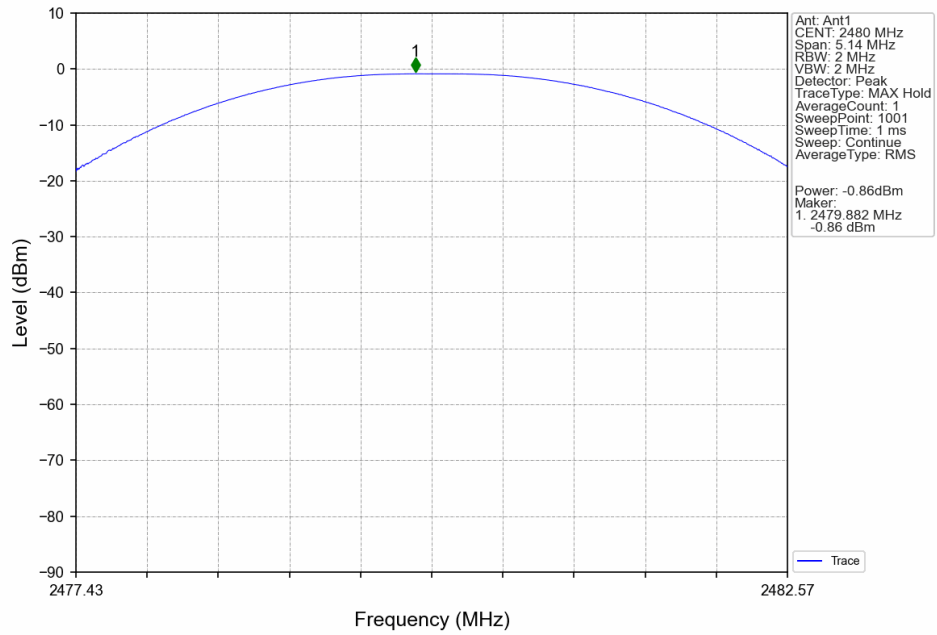
| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |              | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|--------------|---------|
|           |         |                 |             | ANT1                                      | Limit        |         |
| GFSK      | SISO    | 2402            | DH5         | 1.33                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | DH5         | 0.35                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | DH5         | -0.86                                     | $\leq 20.97$ | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 2.14                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 2DH5        | 1.24                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 2DH5        | -0.03                                     | $\leq 20.97$ | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 2.54                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 3DH5        | 1.60                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 3DH5        | 0.31                                      | $\leq 20.97$ | Pass    |

## 2.2 Test Graph

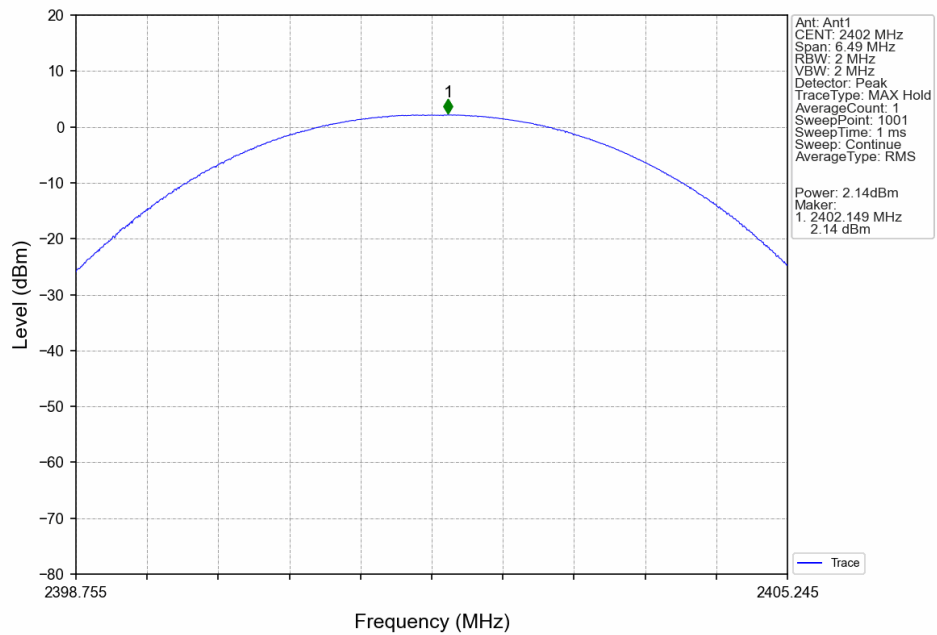
### 2.2.1 Power



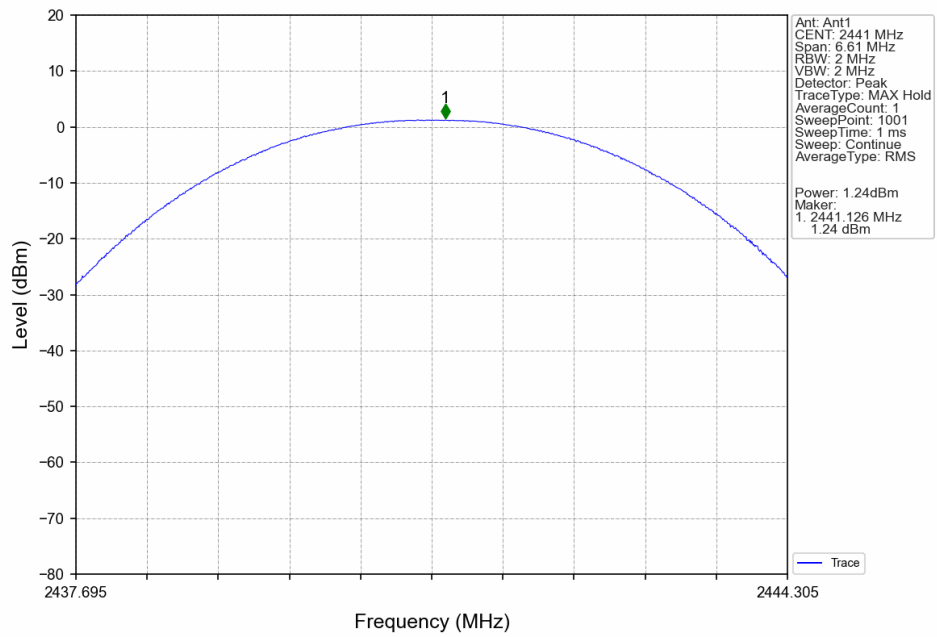
# GFSK DH5 HCH 2480MHz Ant1 NTN



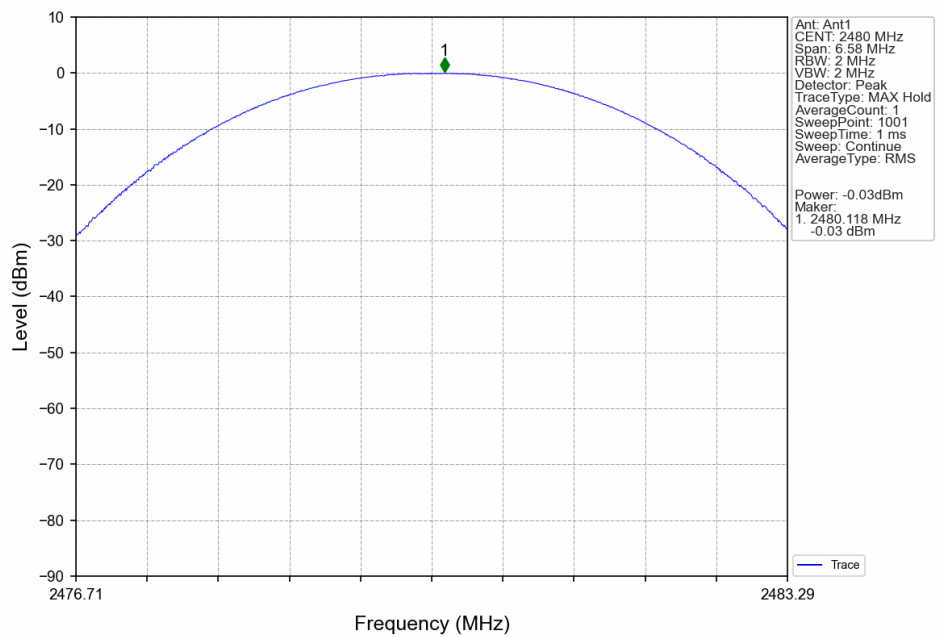
# Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



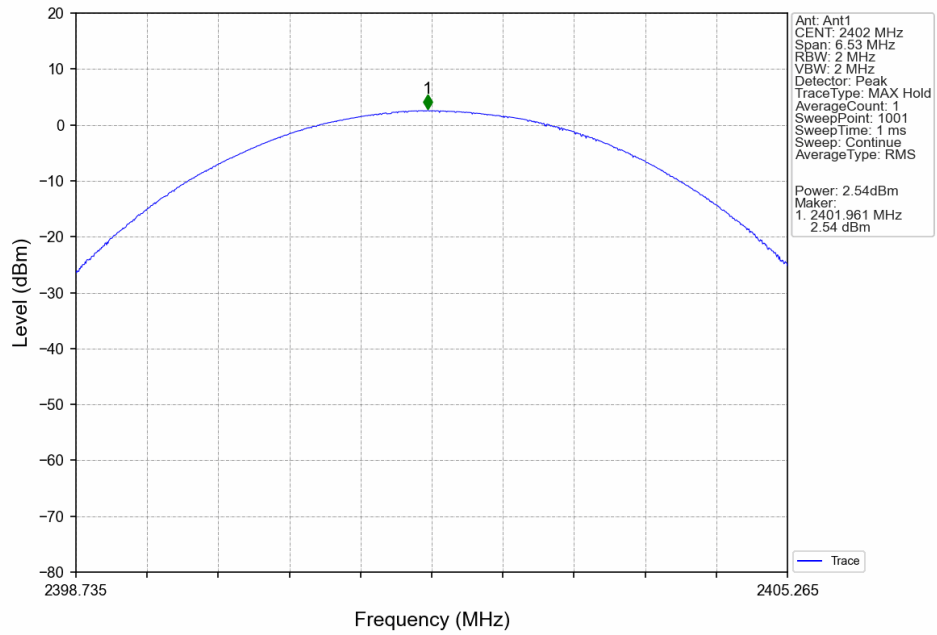
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



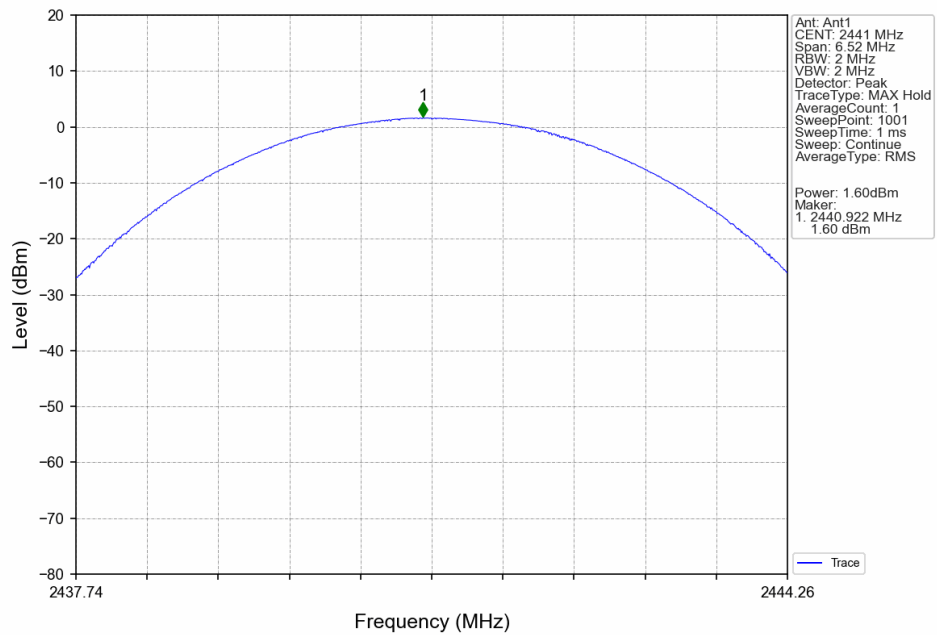
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



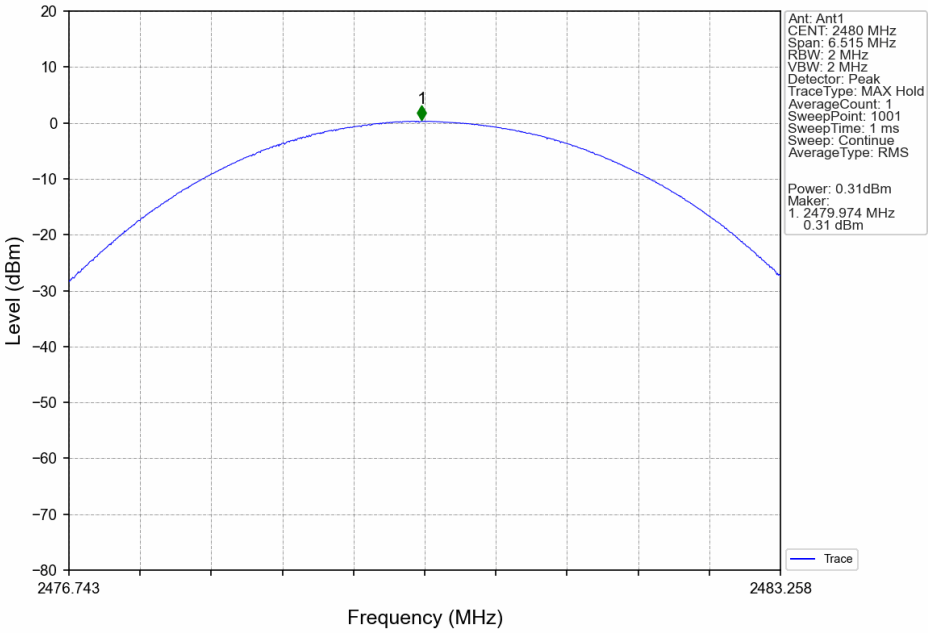
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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



### 3. Carrier Frequency Separation

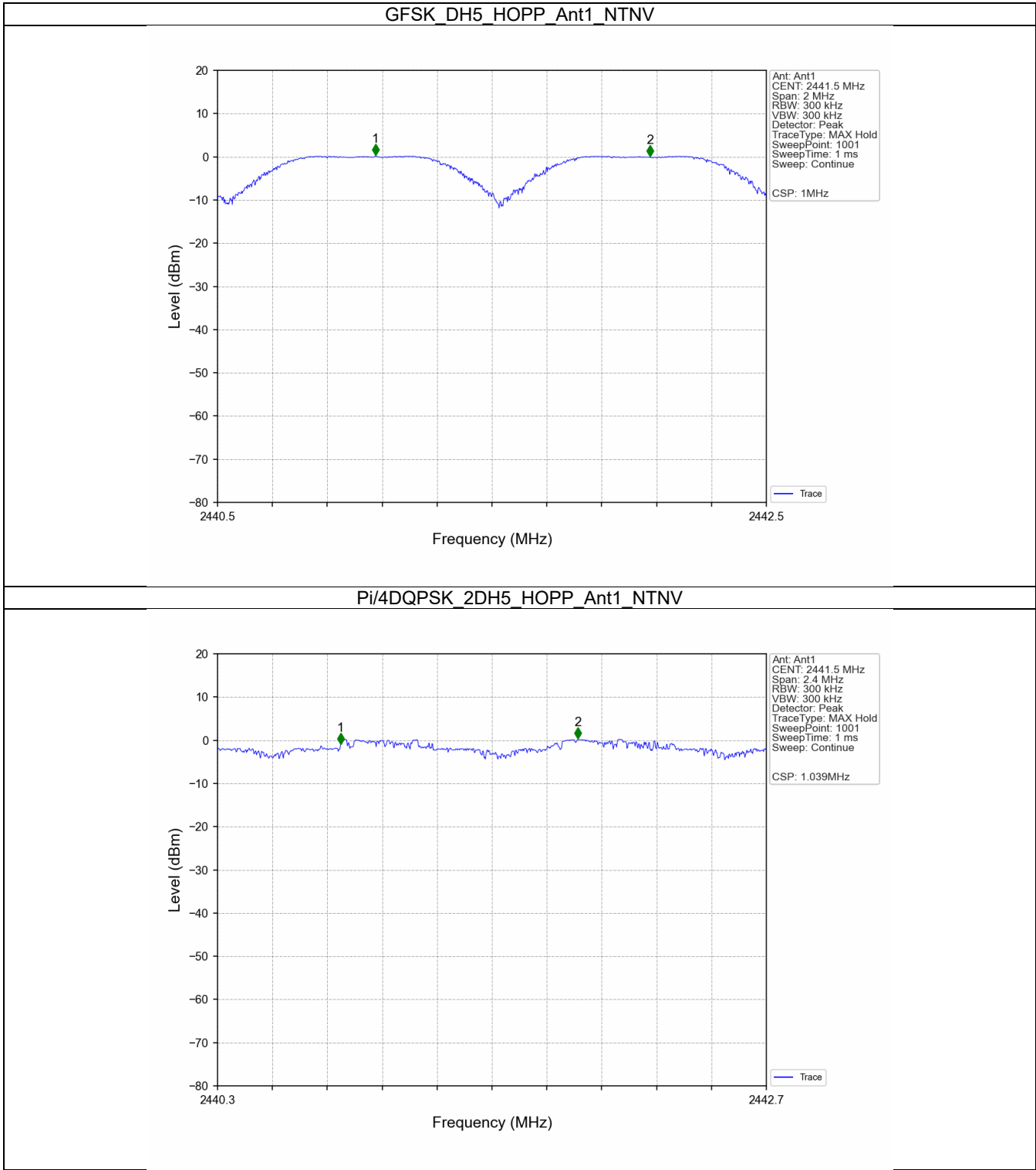
#### 3.1 Test Result

##### 3.1.1 Ant1

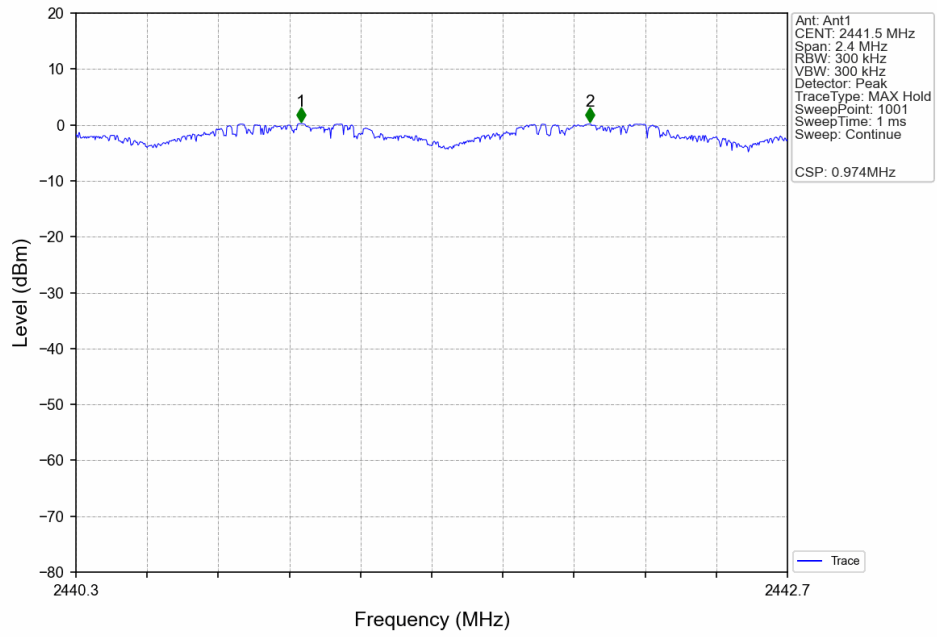
| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 1.000                    | 1.041                | $\geq 0.694$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.039                    | 1.322                | $\geq 0.881$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 0.974                    | 1.306                | $\geq 0.871$ | Pass    |

### 3.2 Test Graph

#### 3.2.1 Ant1



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 4. Number of Hopping Frequencies

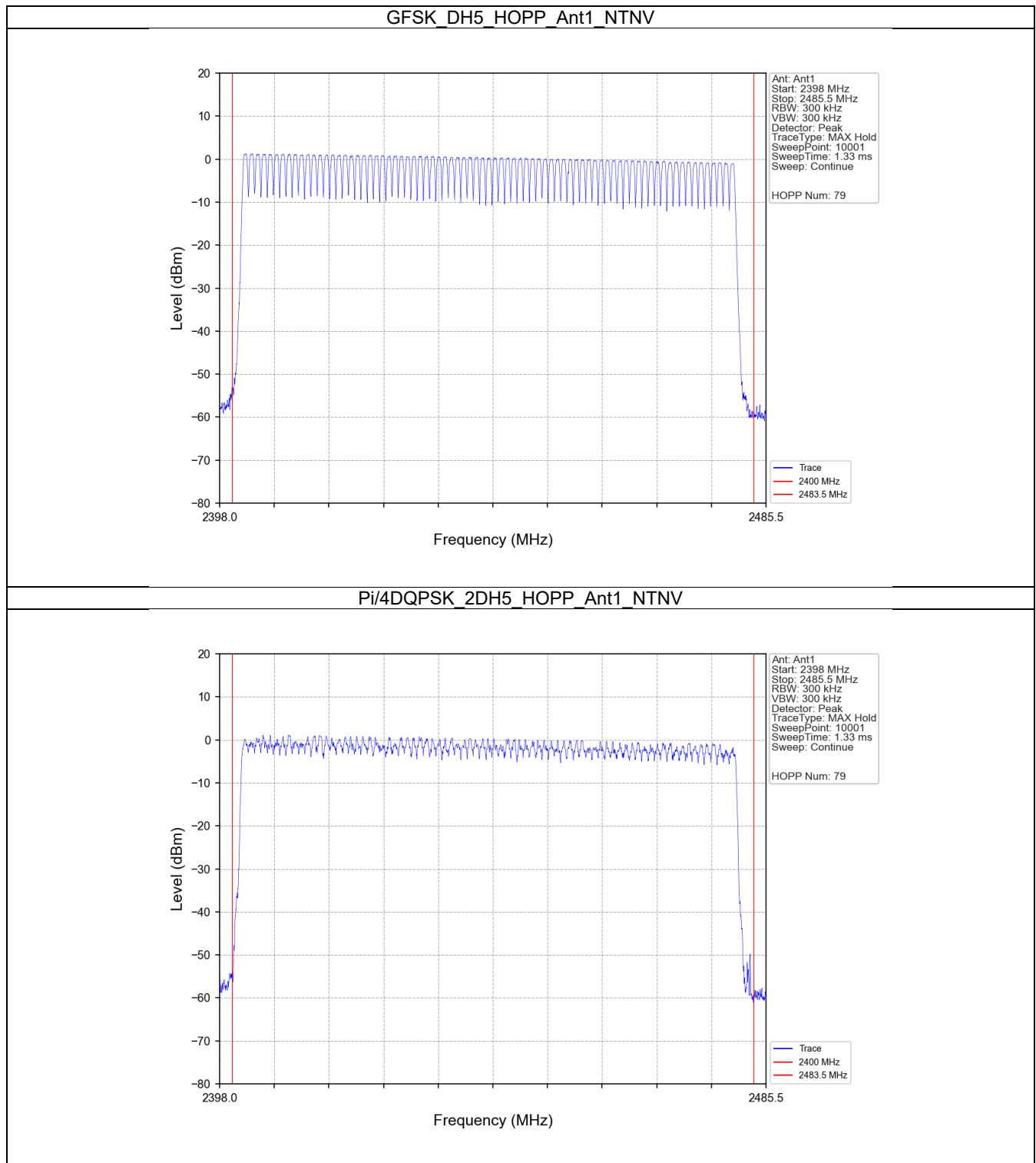
### 4.1 Test Result

#### 4.1.1 HoppNum

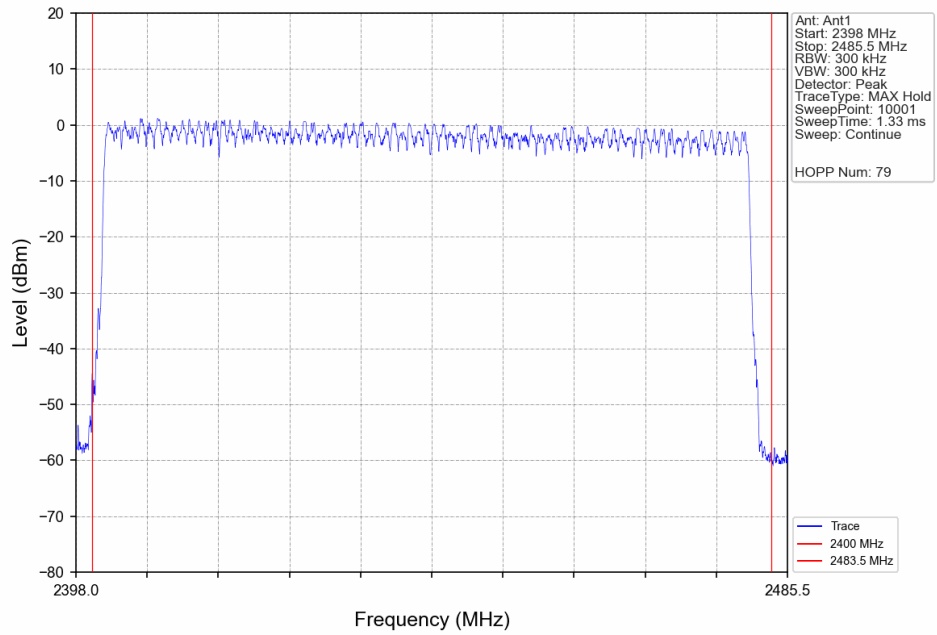
| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |       | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
|           |         |                 |             | ANT1                       | Limit |  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

## 4.2 Test Graph

### 4.2.1 HoppNum



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



## 5. Time of Occupancy (Dwell Time)

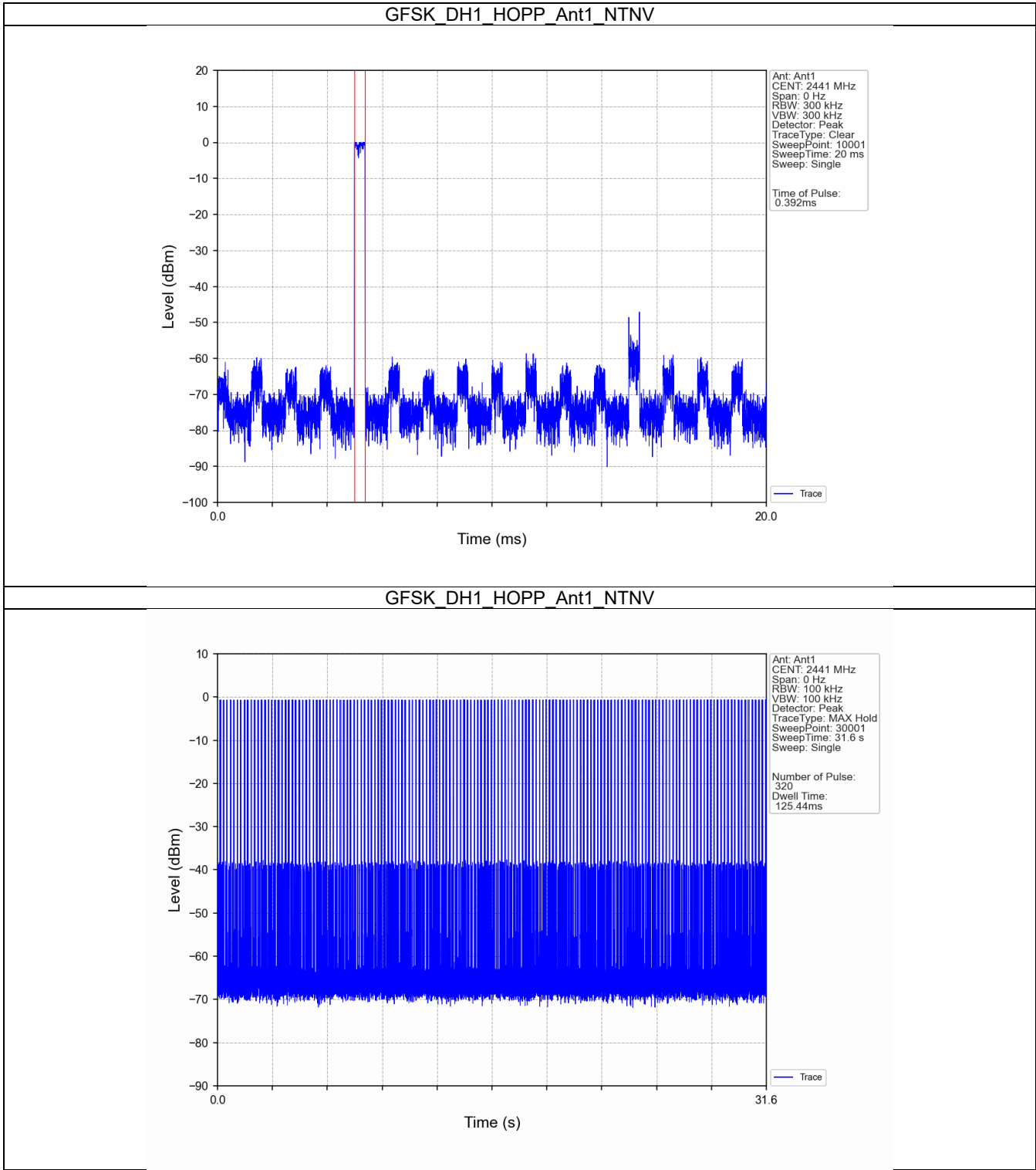
### 5.1 Test Result

#### 5.1.1 Ant1

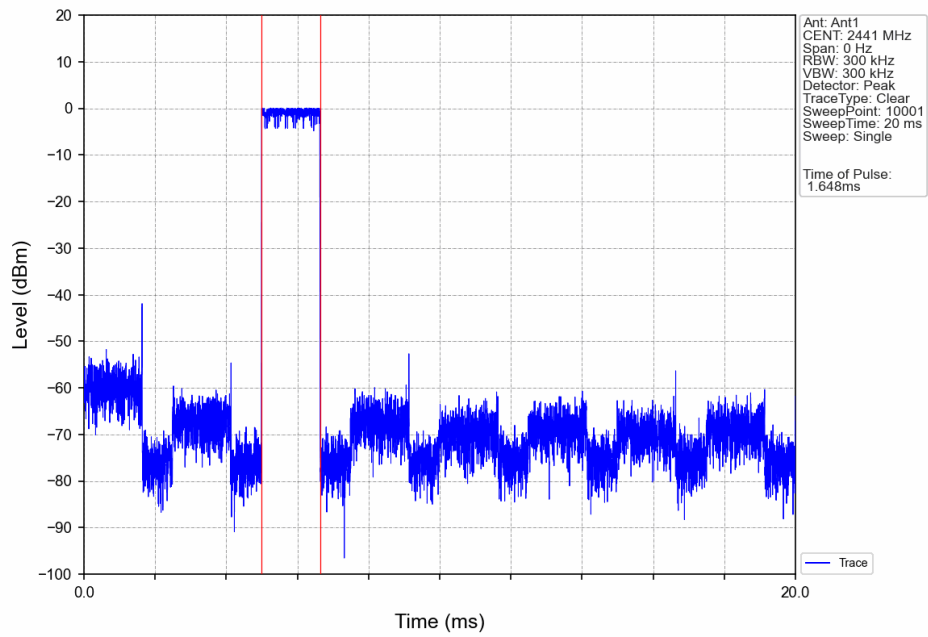
| Ant1      |         |                 |             |                               |                        |                                    |                 |            |         |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| 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         | 0.392                         | 31.600                 | 320                                | 125.440         | <=400      | Pass    |
|           |         |                 | DH3         | 1.648                         | 31.600                 | 164                                | 270.272         | <=400      | Pass    |
|           |         |                 | DH5         | 2.898                         | 31.600                 | 99                                 | 286.902         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.404                         | 31.600                 | 318                                | 128.472         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.648                         | 31.600                 | 150                                | 247.200         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.904                         | 31.600                 | 97                                 | 281.688         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.402                         | 31.600                 | 320                                | 128.640         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.656                         | 31.600                 | 164                                | 271.584         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.906                         | 31.600                 | 101                                | 293.506         | <=400      | Pass    |

# 5.2 Test Graph

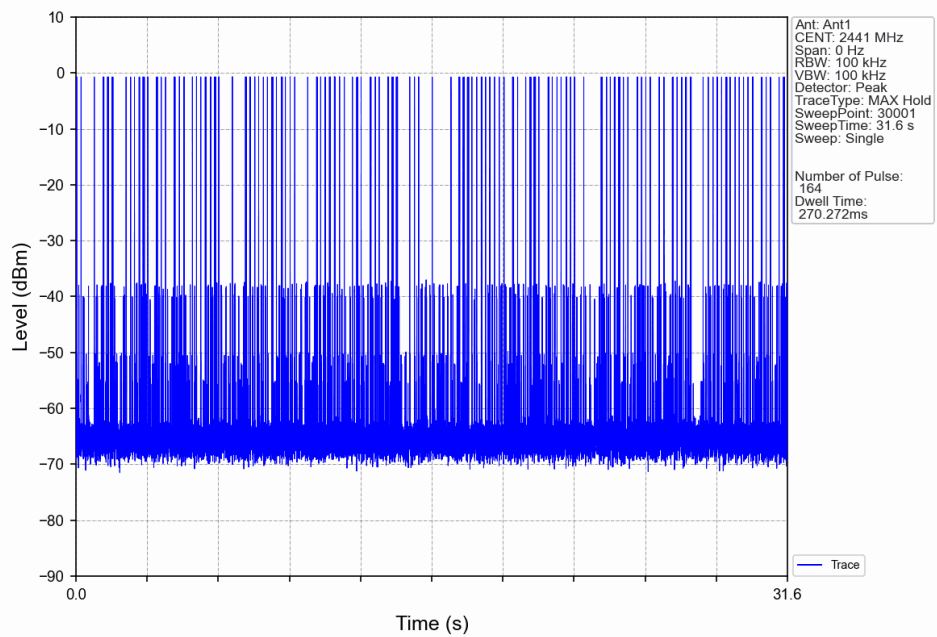
## 5.2.1 Ant1



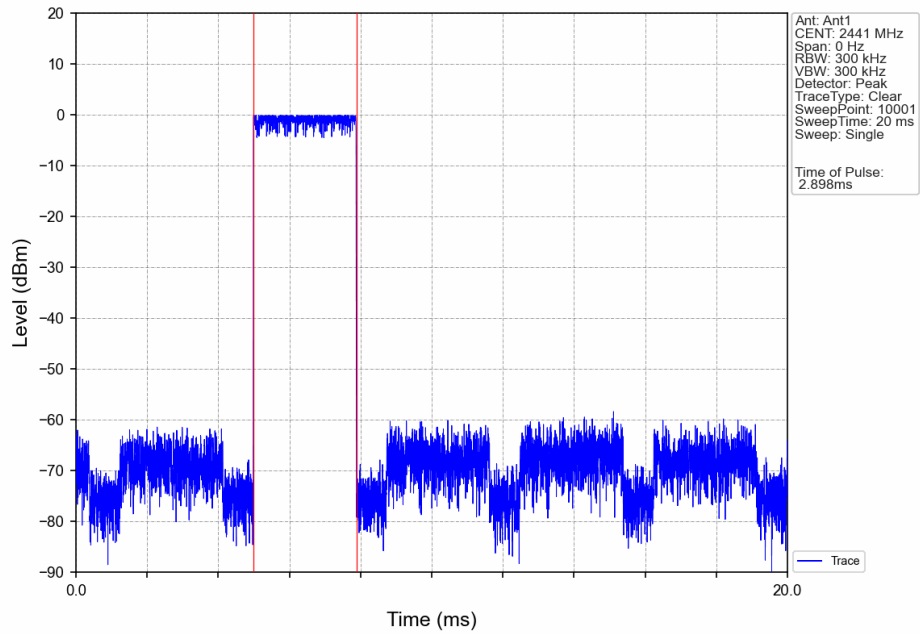
# GFSK\_DH3\_HOPP\_Ant1\_NTNV



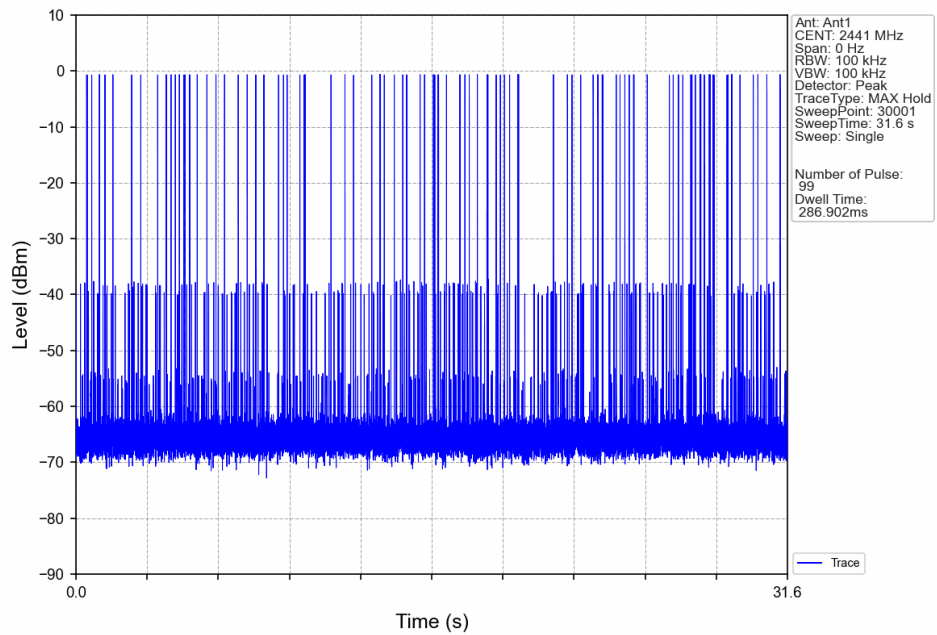
# GFSK\_DH3\_HOPP\_Ant1\_NTNV



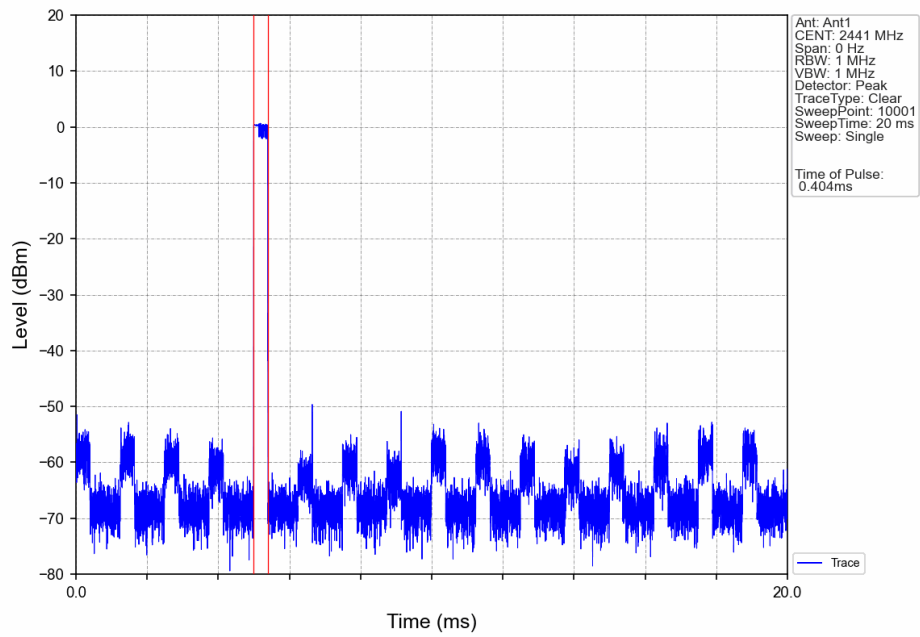
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



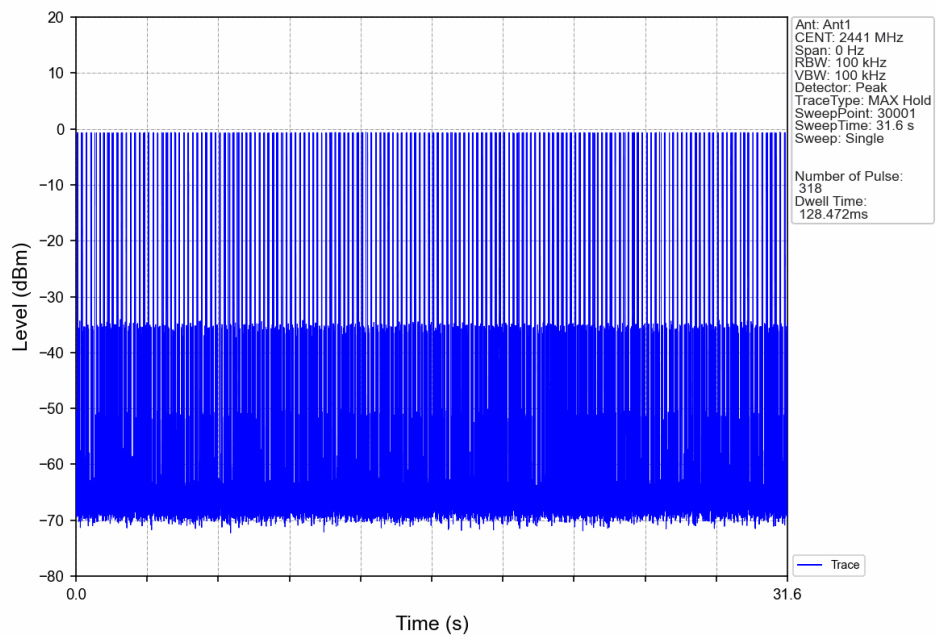
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



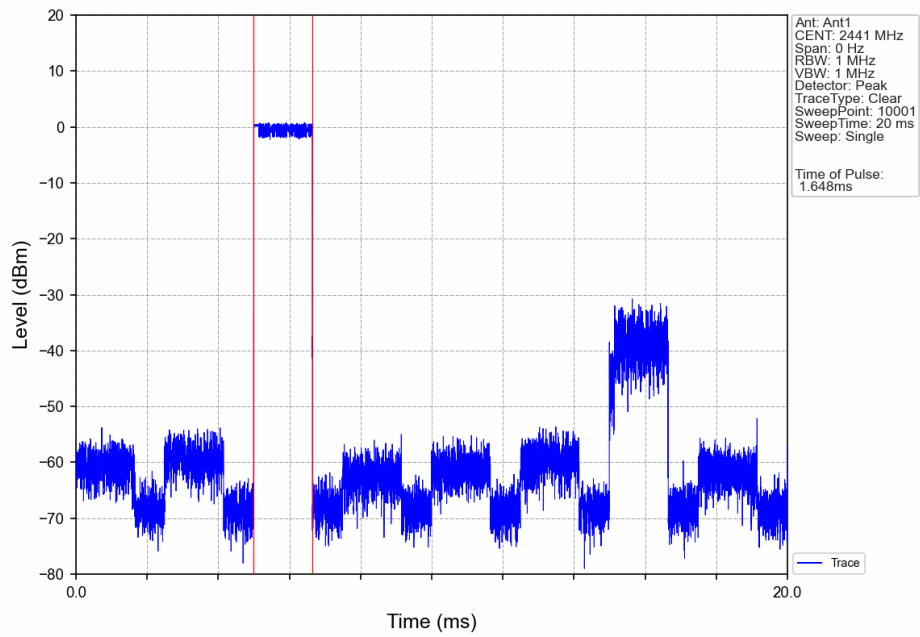
# Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



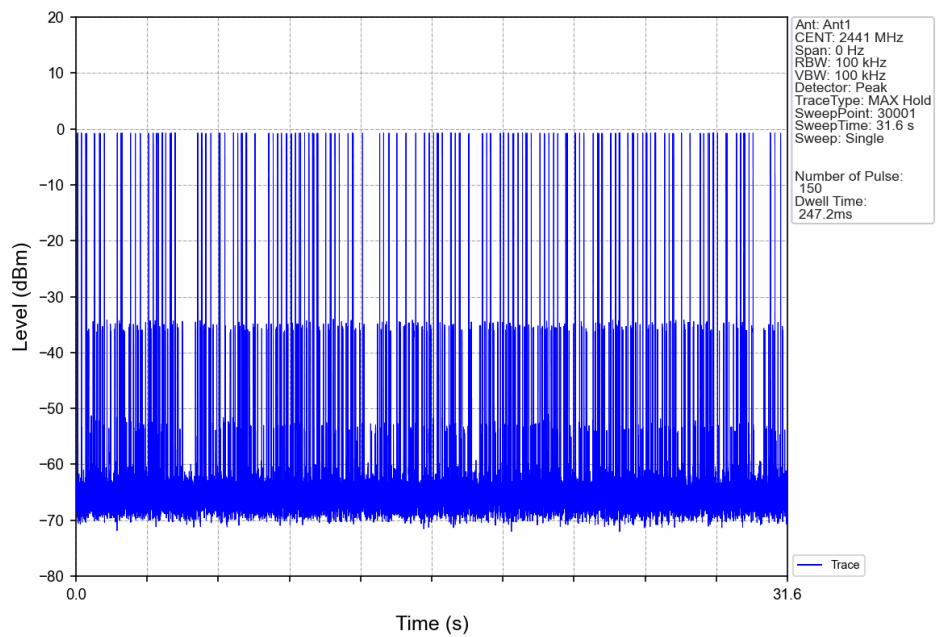
# Pi/4DQPSK\_2DH1\_HOPP\_Ant1\_NTNV



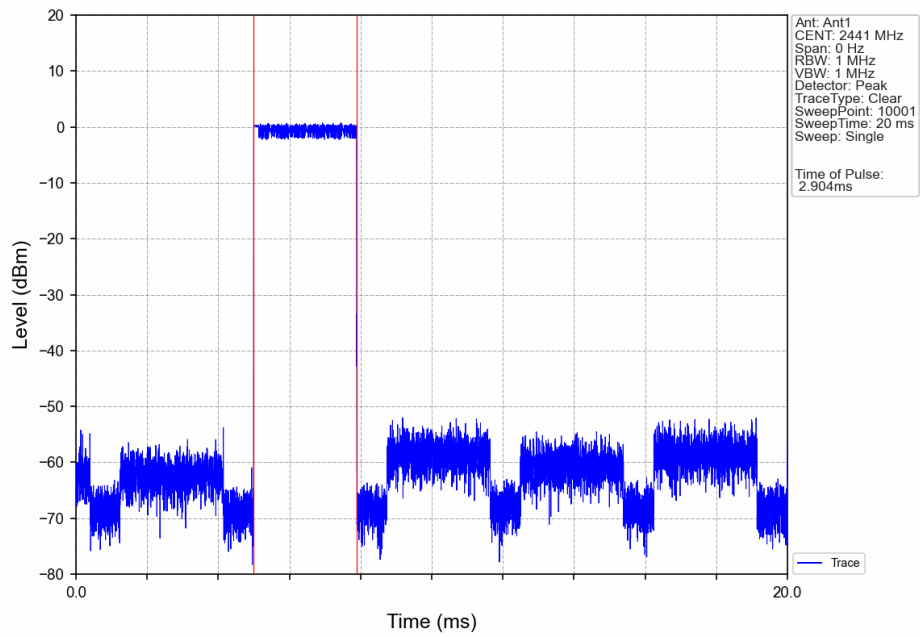
# Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



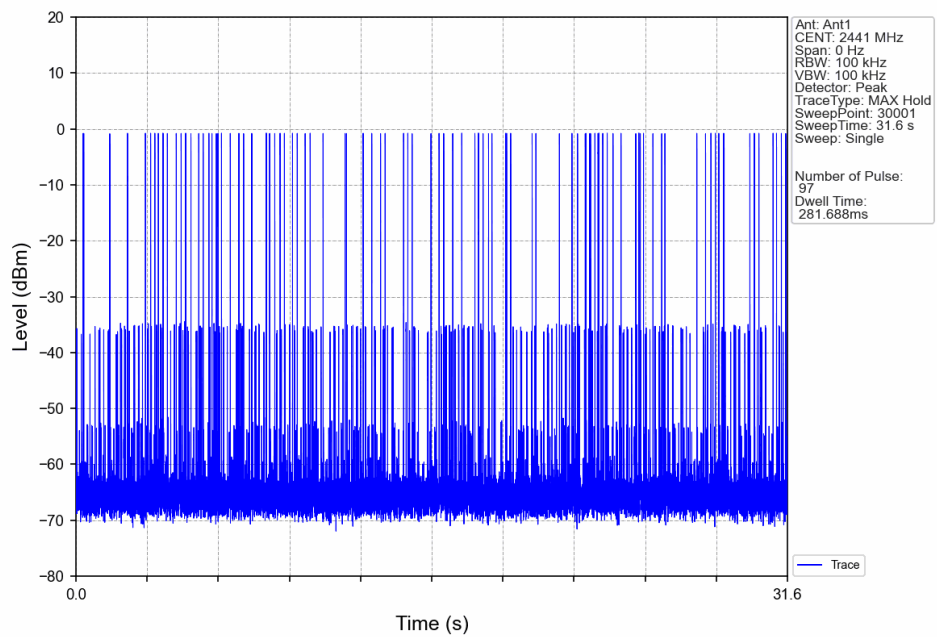
# Pi/4DQPSK\_2DH3\_HOPP\_Ant1\_NTNV



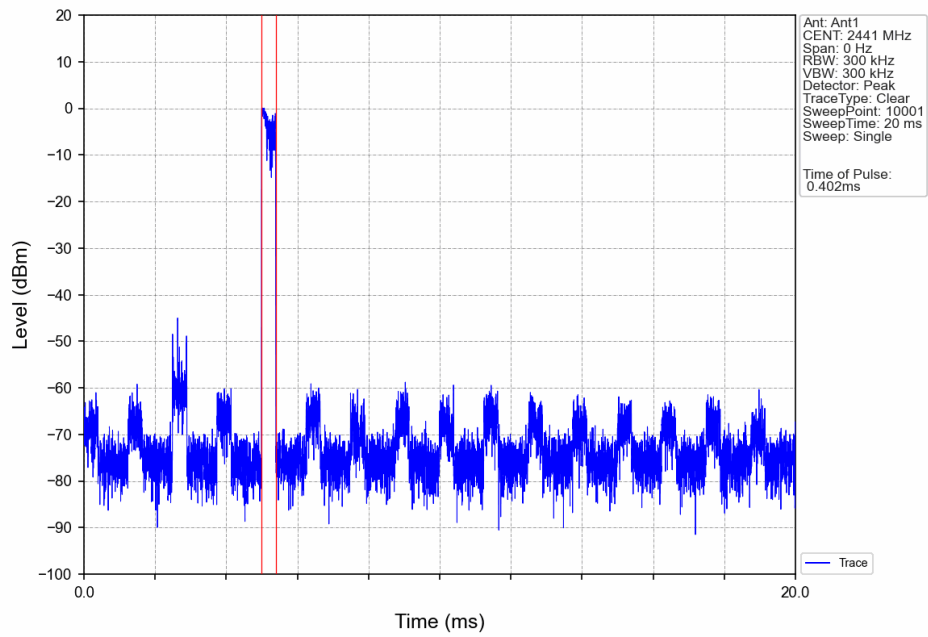
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



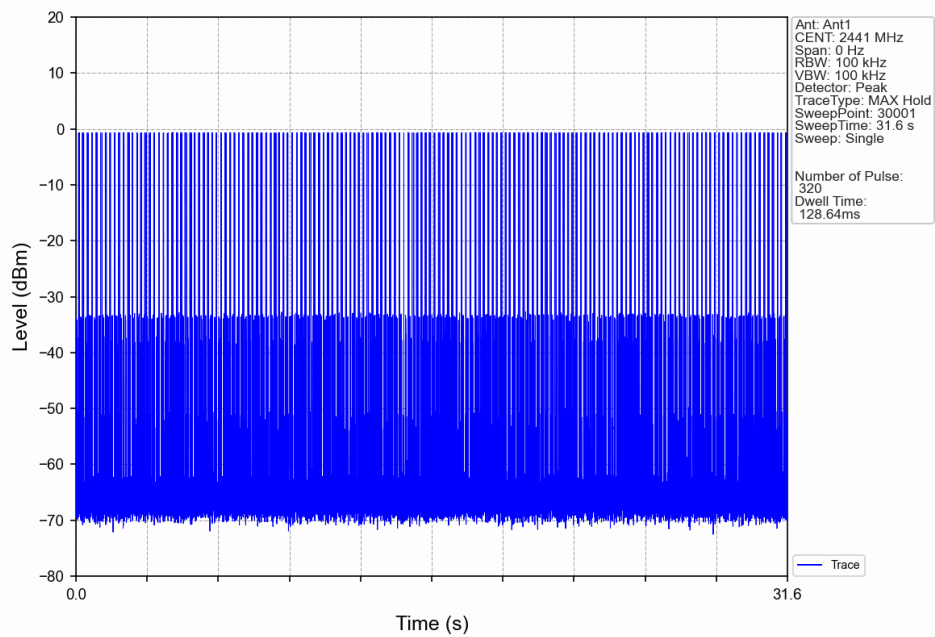
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



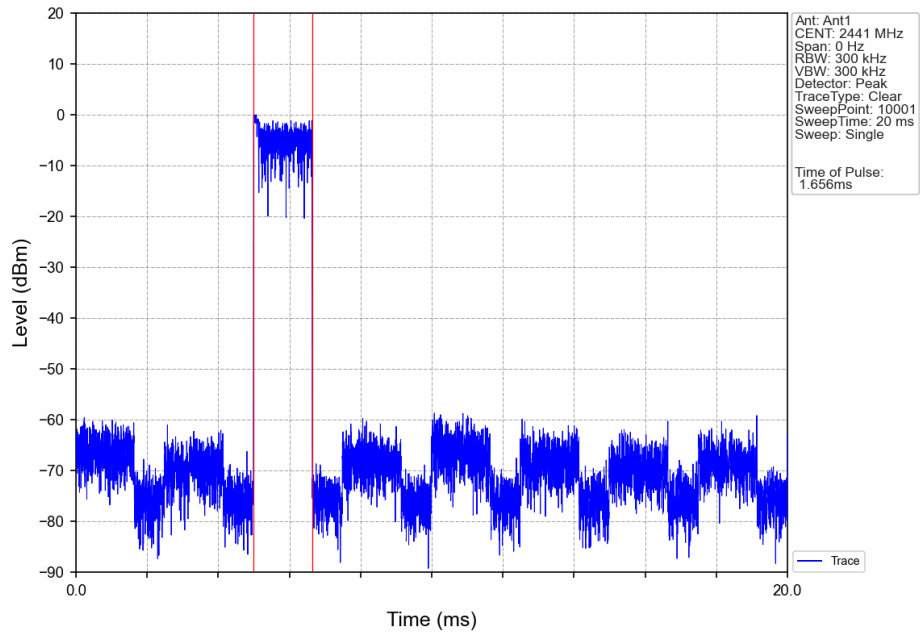
# 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



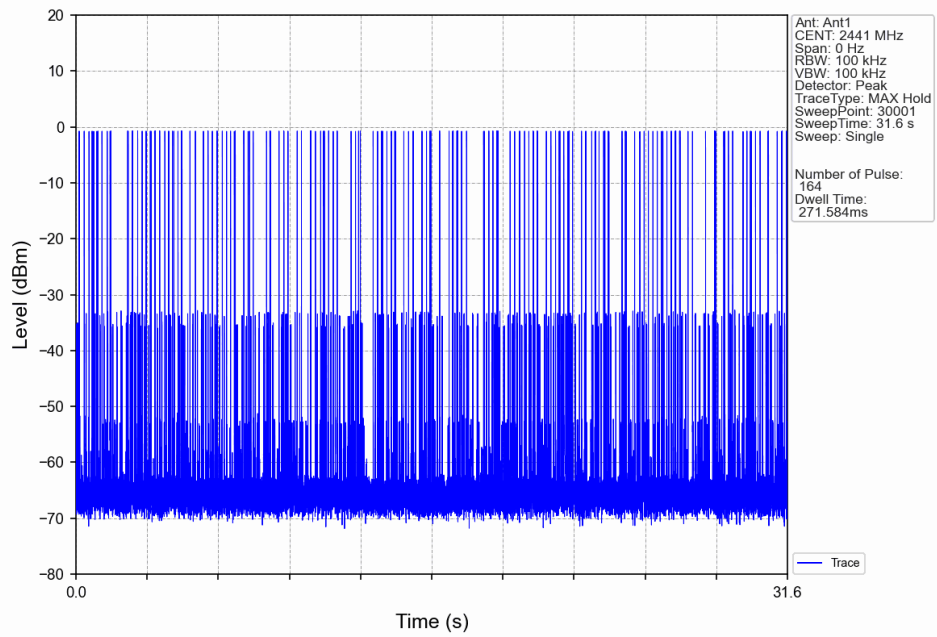
# 8DPSK\_3DH1\_HOPP\_Ant1\_NTNV



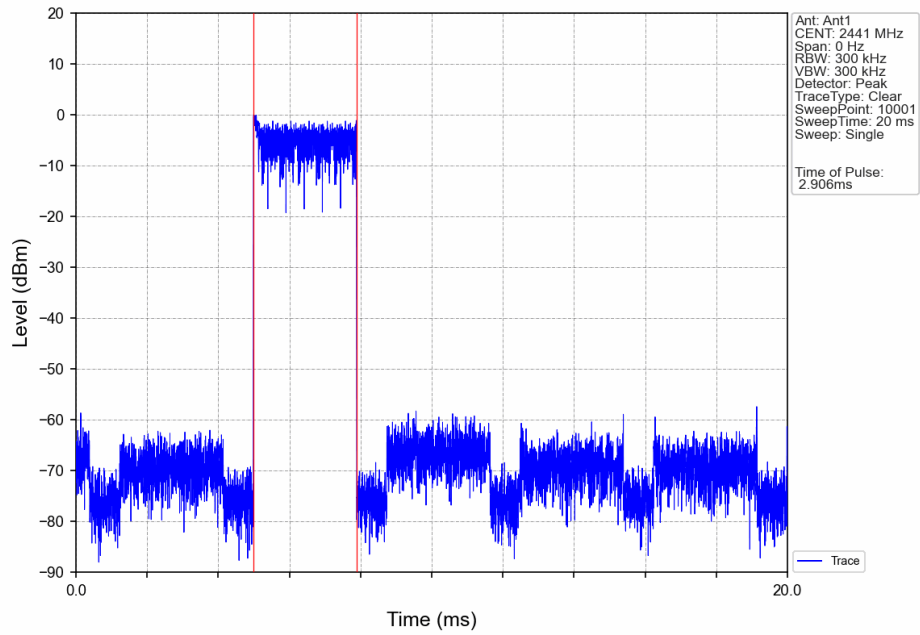
# 8DPSK 3DH3 HOPP Ant1 NTN



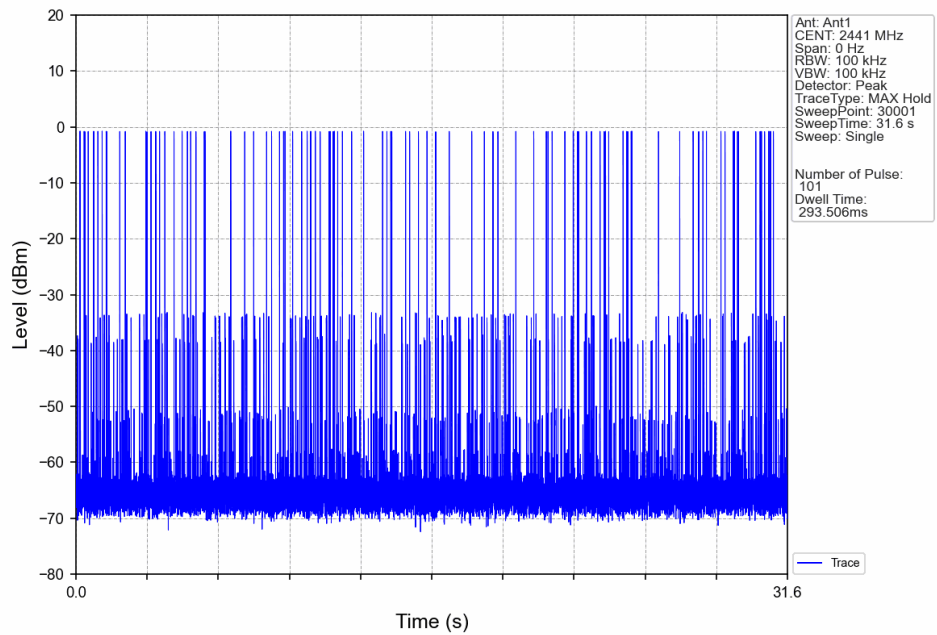
# 8DPSK 3DH3 HOPP Ant1 NTN



# 8DPSK 3DH5 HOPP Ant1 NTN



# 8DPSK 3DH5 HOPP Ant1 NTN



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

### 6.1 Test Result

#### 6.1.1 Ref

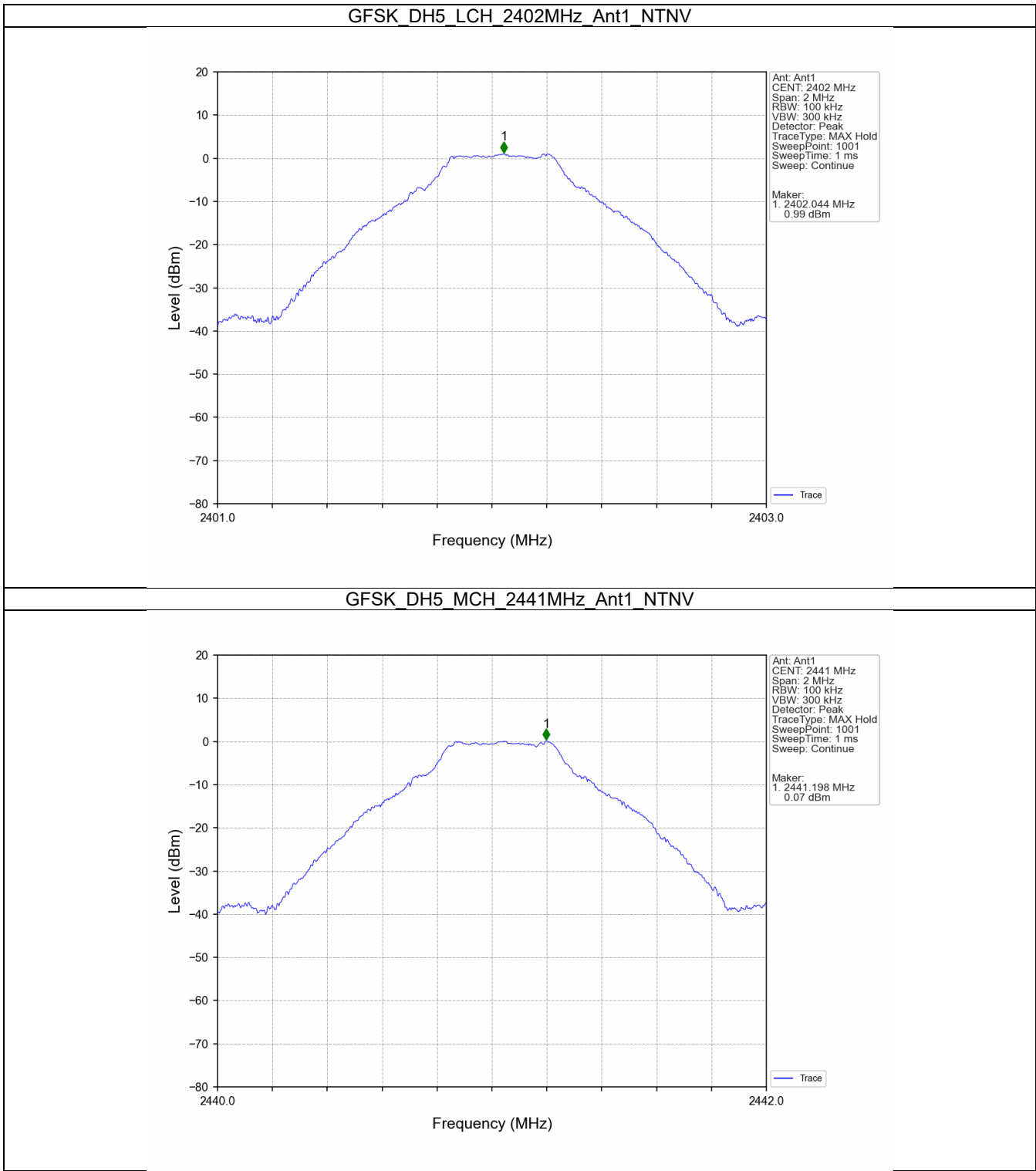
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.99                     |
|           |         | 2441            | DH5         | 1   | 0.07                     |
|           |         | 2480            | DH5         | 1   | -1.15                    |
|           |         | HOPP            | DH5         | 1   | 0.81                     |
|           |         |                 |             |     | 0.81                     |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.02                     |
|           |         | 2441            | 2DH5        | 1   | 0.11                     |
|           |         | 2480            | 2DH5        | 1   | -1.19                    |
|           |         | HOPP            | 2DH5        | 1   | 1.06                     |
|           |         |                 |             |     | 1.06                     |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.00                     |
|           |         | 2441            | 3DH5        | 1   | 0.07                     |
|           |         | 2480            | 3DH5        | 1   | -1.22                    |
|           |         | HOPP            | 3DH5        | 1   | 0.92                     |
|           |         |                 |             |     | 0.92                     |

#### 6.1.2 CSE

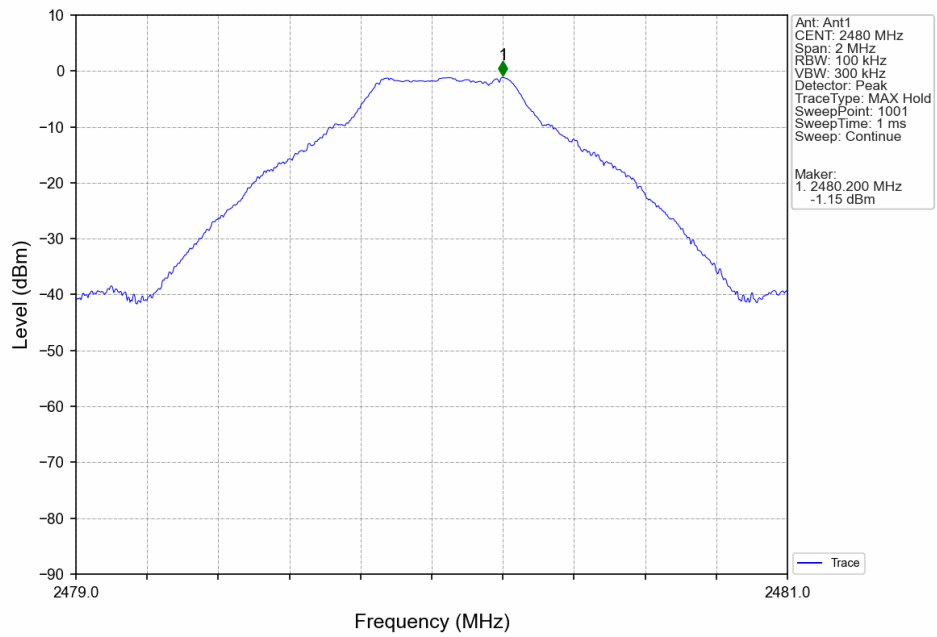
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.99                     | -19.01      | Pass    |
|           |         | 2441            | DH5         | 1   | 0.07                     | -19.93      | Pass    |
|           |         | 2480            | DH5         | 1   | -1.15                    | -21.15      | Pass    |
|           |         | HOPP            | DH5         | 1   | 0.81                     | -19.19      | Pass    |
|           |         |                 |             |     | 0.81                     | -19.19      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.02                     | -18.98      | Pass    |
|           |         | 2441            | 2DH5        | 1   | 0.11                     | -19.89      | Pass    |
|           |         | 2480            | 2DH5        | 1   | -1.19                    | -21.19      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 1.06                     | -18.94      | Pass    |
|           |         |                 |             |     | 1.06                     | -18.94      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.00                     | -19.00      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 0.07                     | -19.93      | Pass    |
|           |         | 2480            | 3DH5        | 1   | -1.22                    | -21.22      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 0.92                     | -19.08      | Pass    |
|           |         |                 |             |     | 0.92                     | -19.08      | Pass    |

6.2 Test Graph

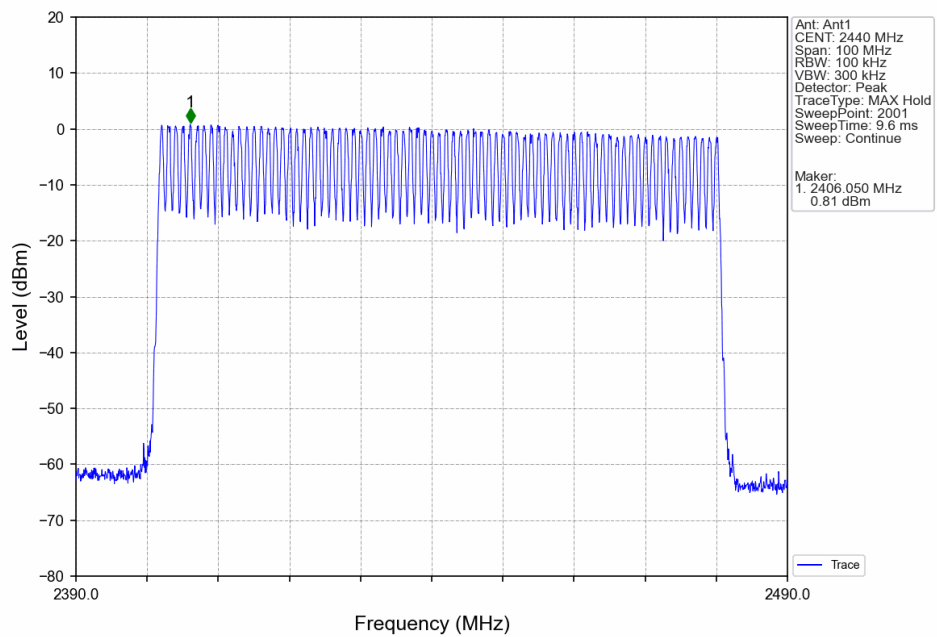
6.2.1 Ref



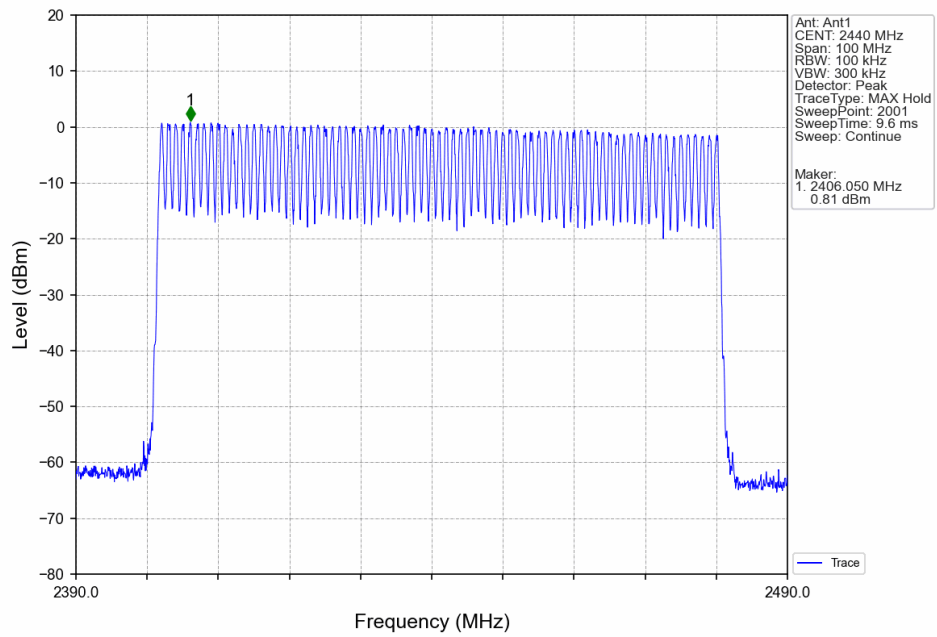
# GFSK DH5 HCH 2480MHz\_Ant1\_NTNV



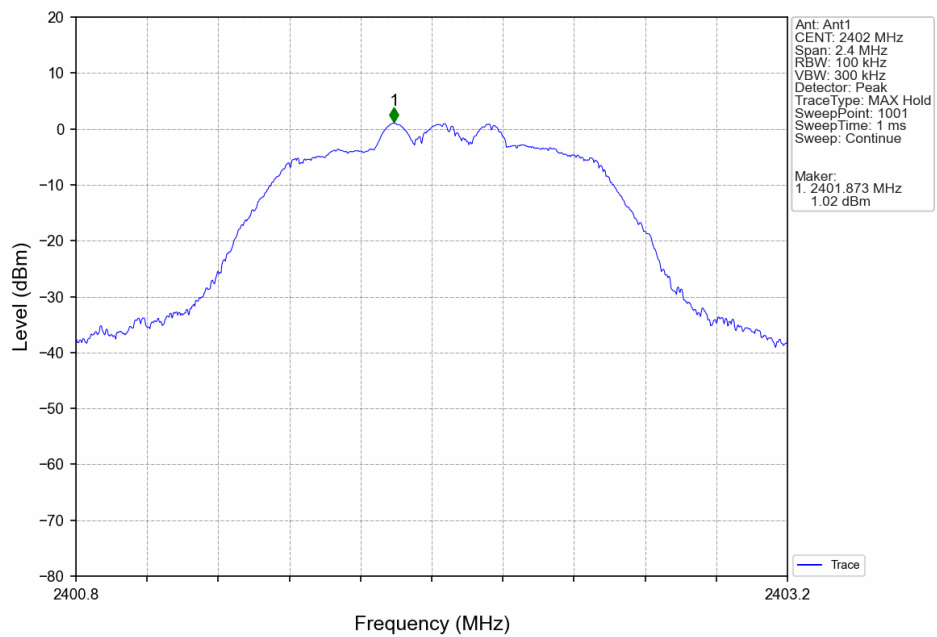
# GFSK DH5 HOPP Ant1\_NTNV



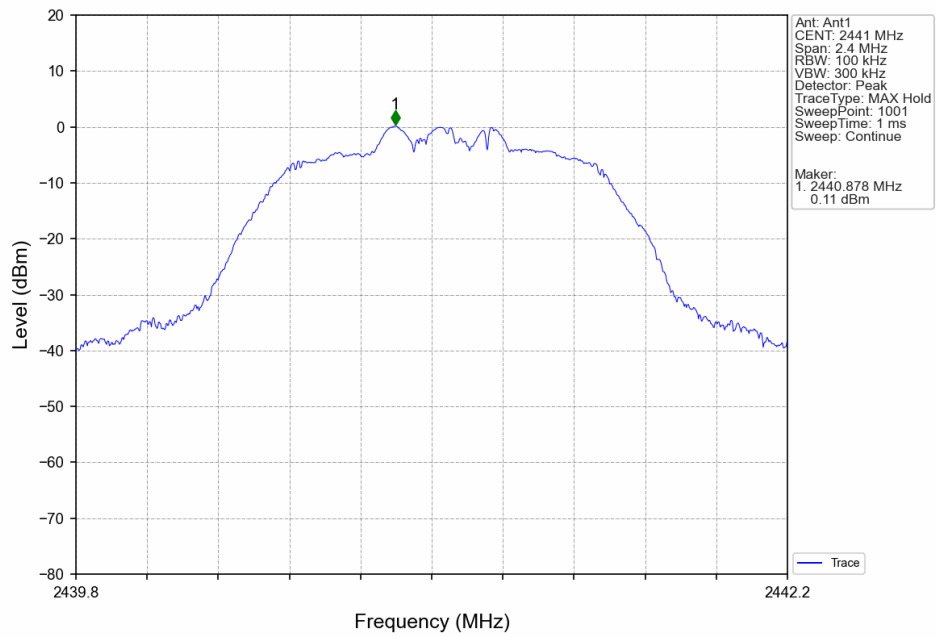
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



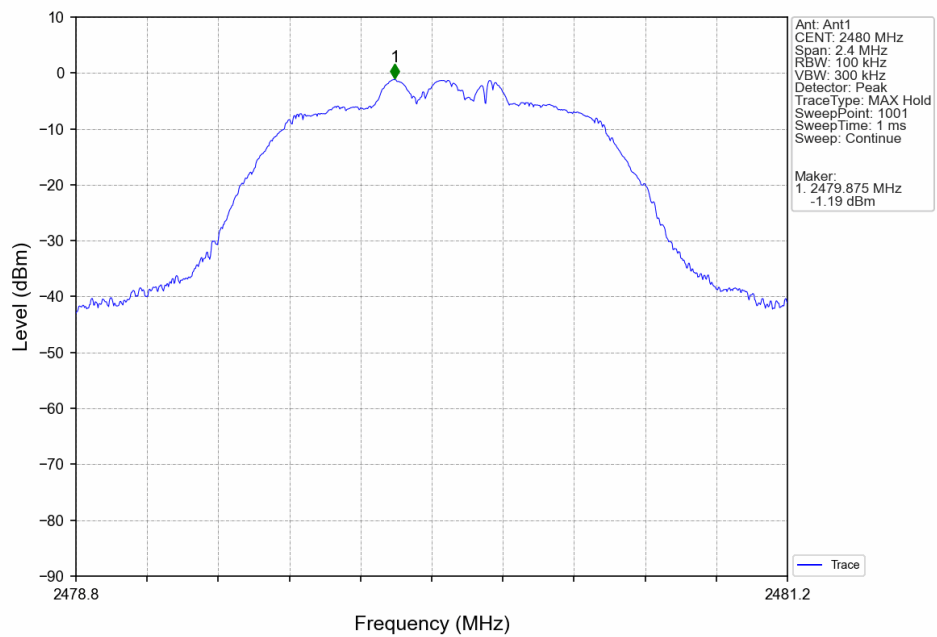
# Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



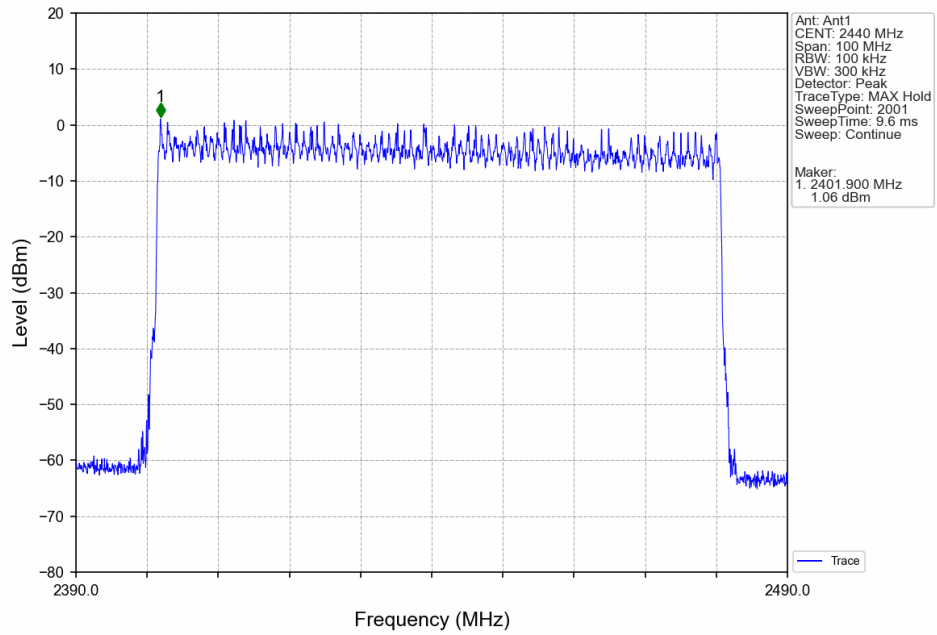
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



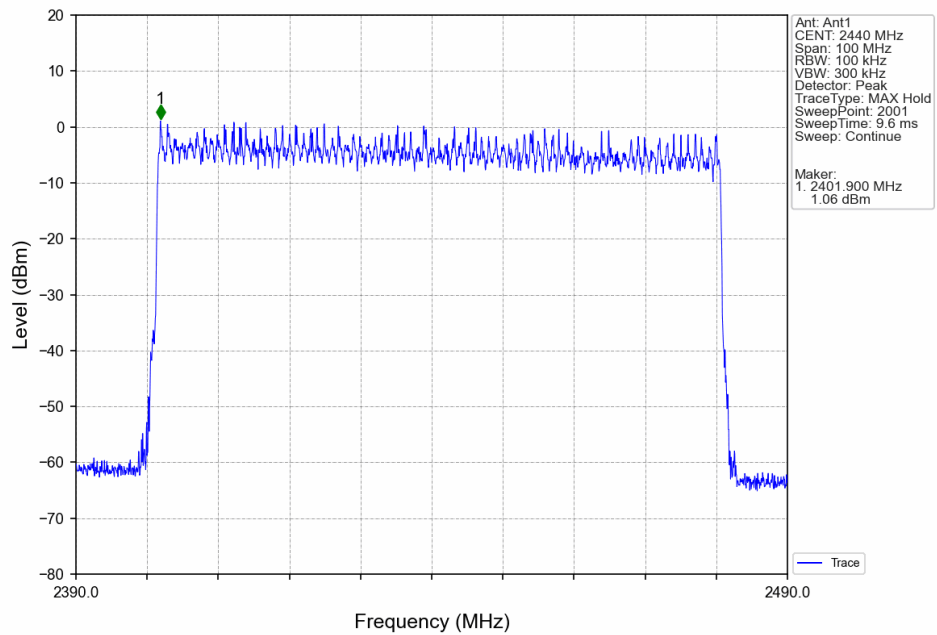
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



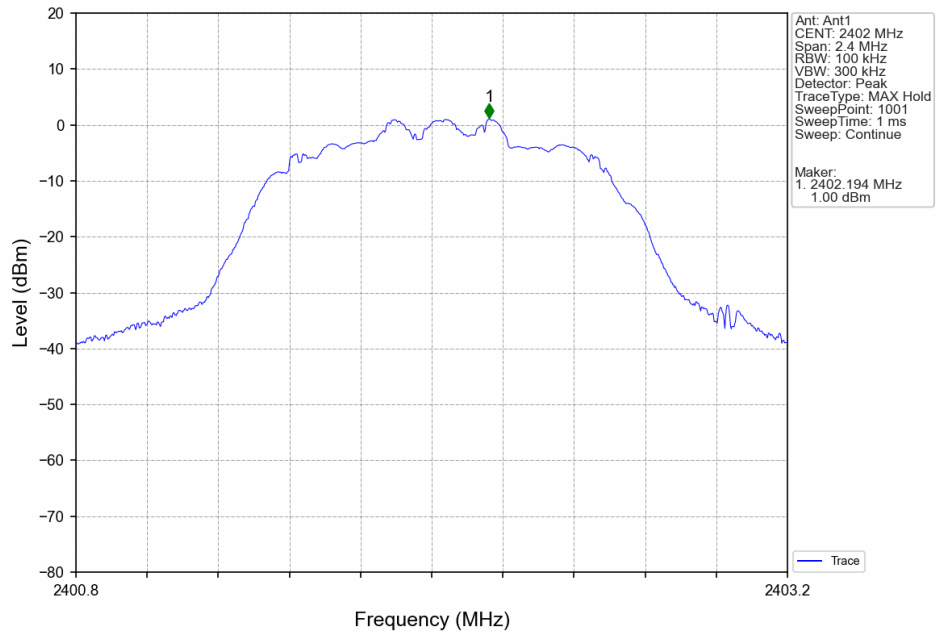
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



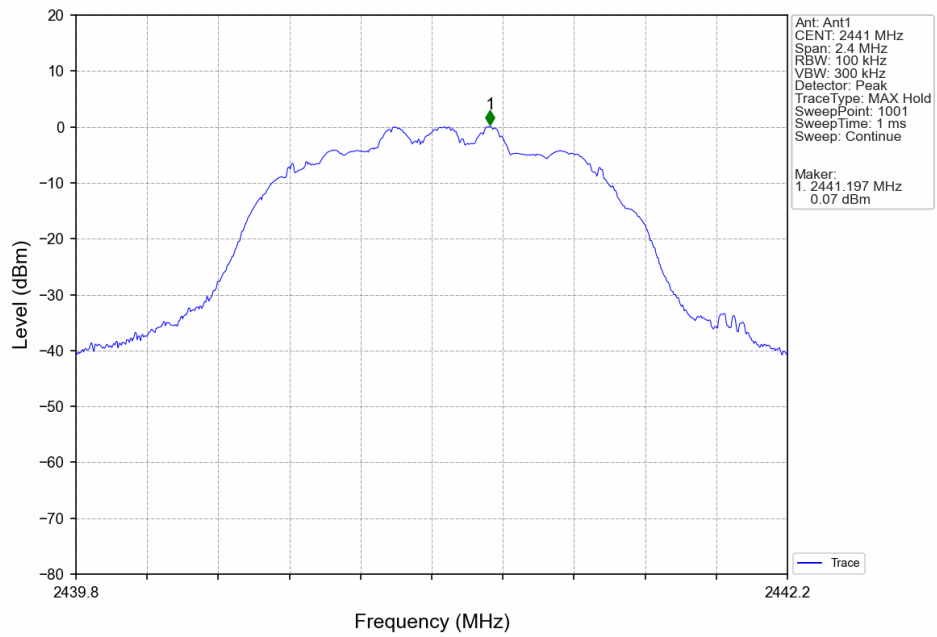
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



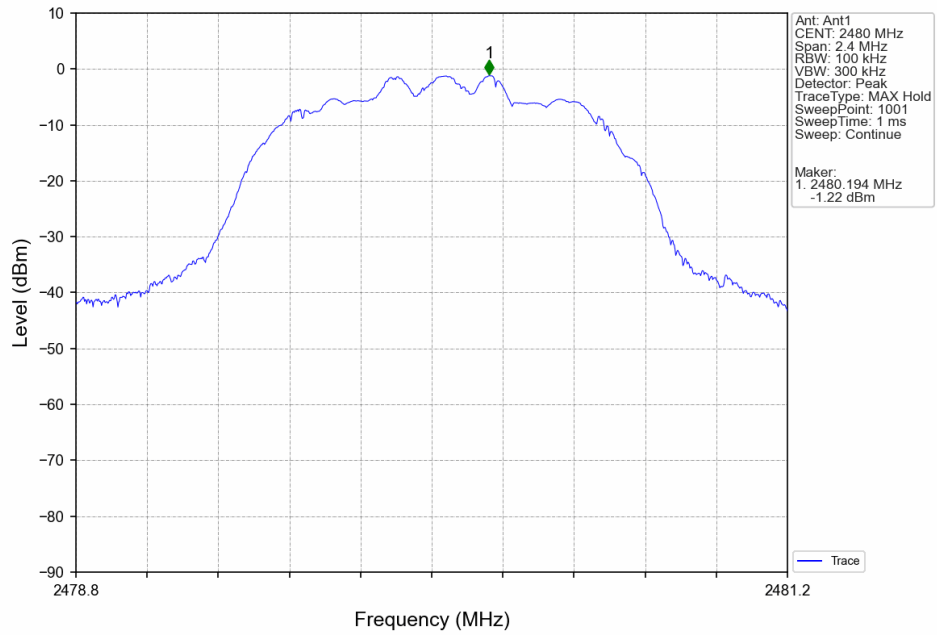
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



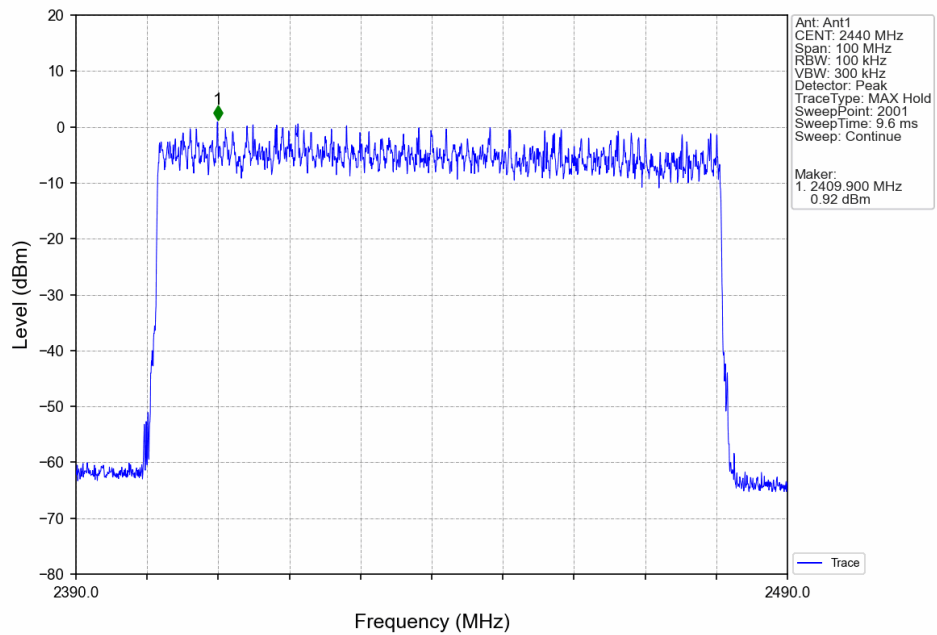
# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



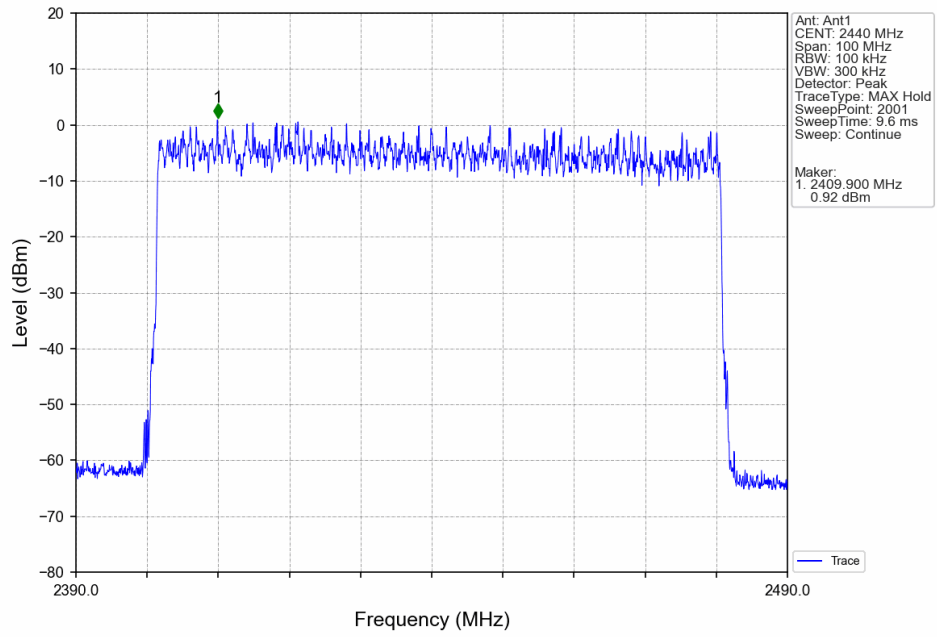
# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



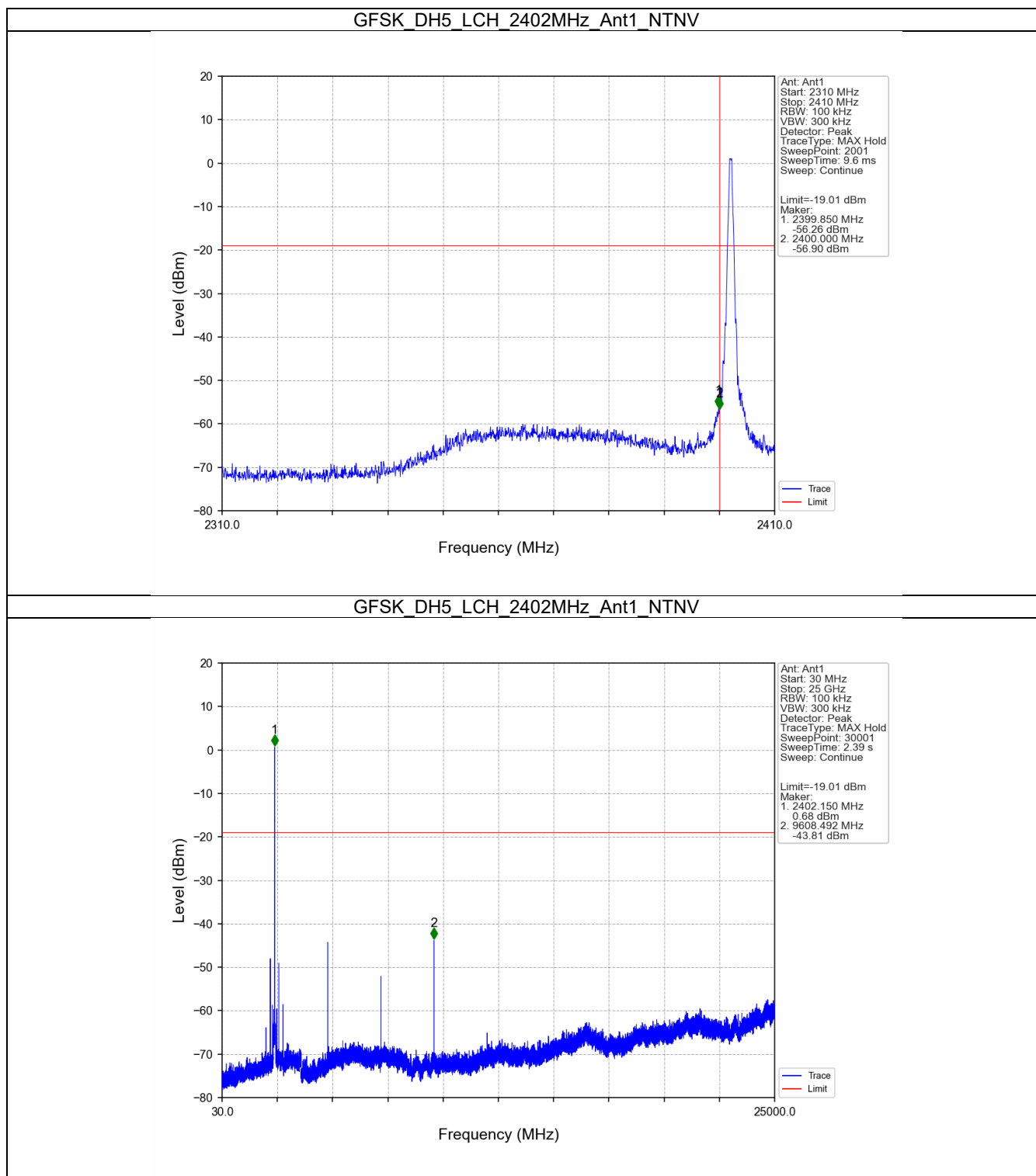
# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



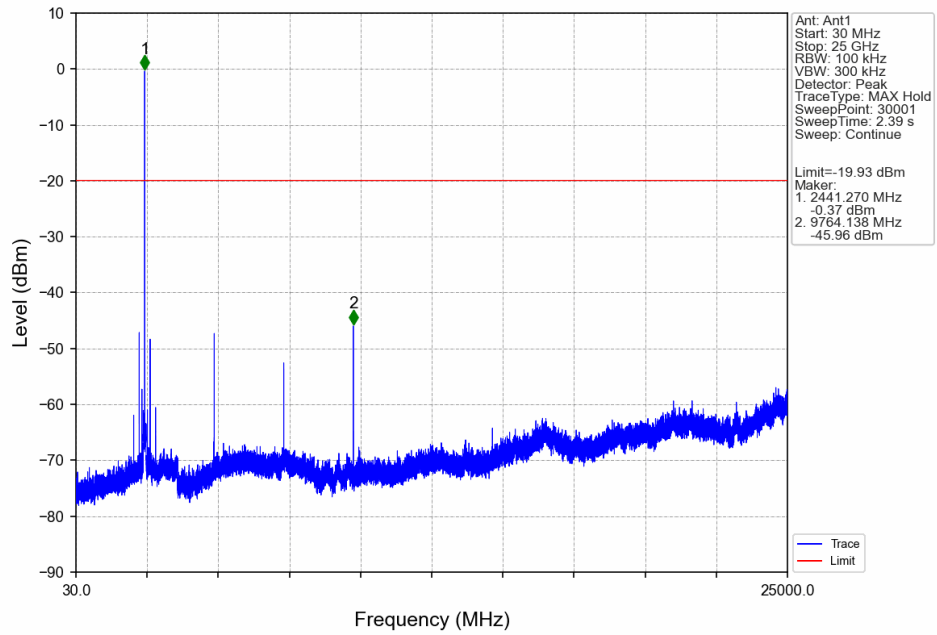
# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



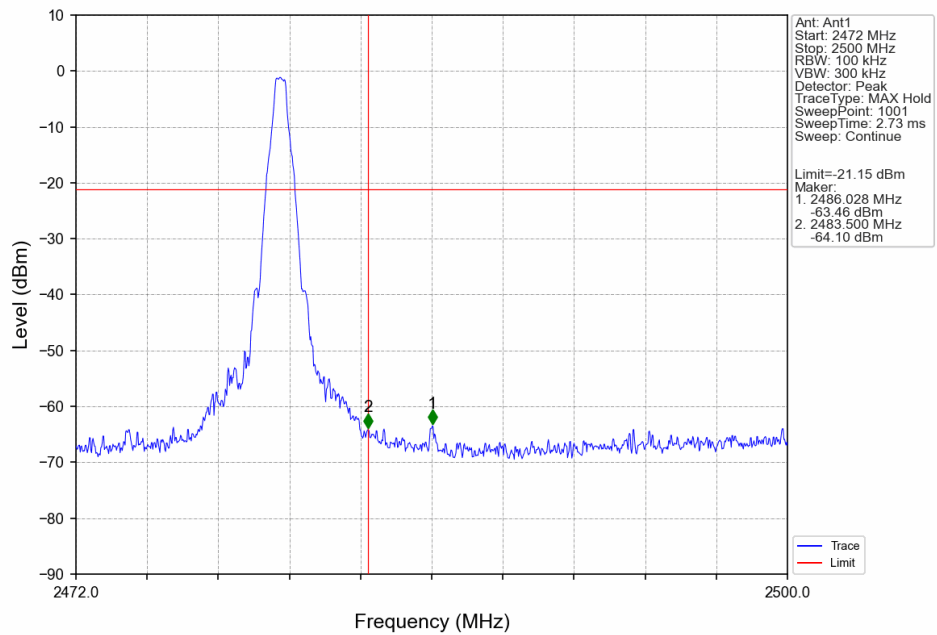
## 6.2.2 CSE



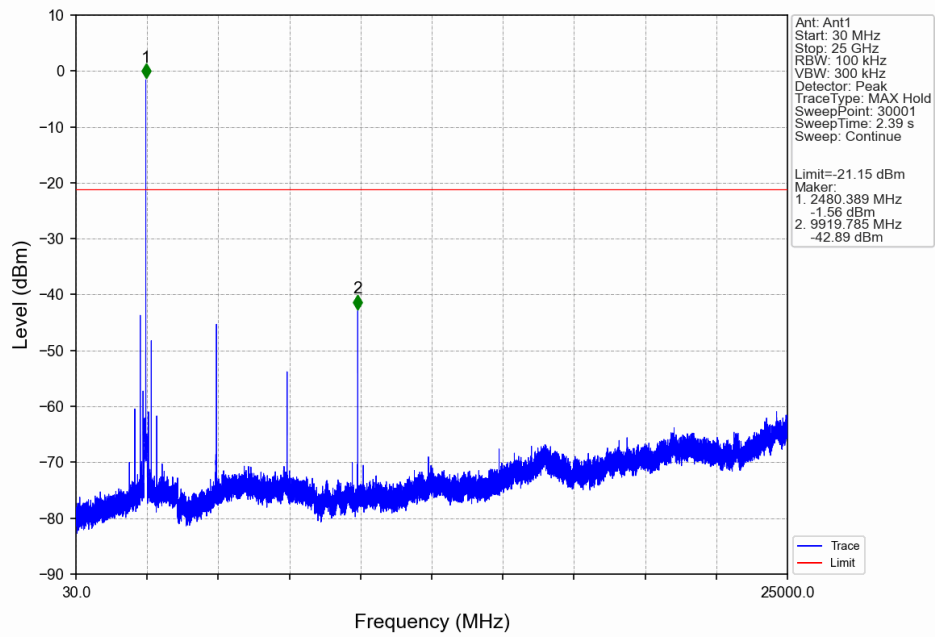
# GFSK\_DH5\_MCH\_2441MHz\_Ant1\_NTNV



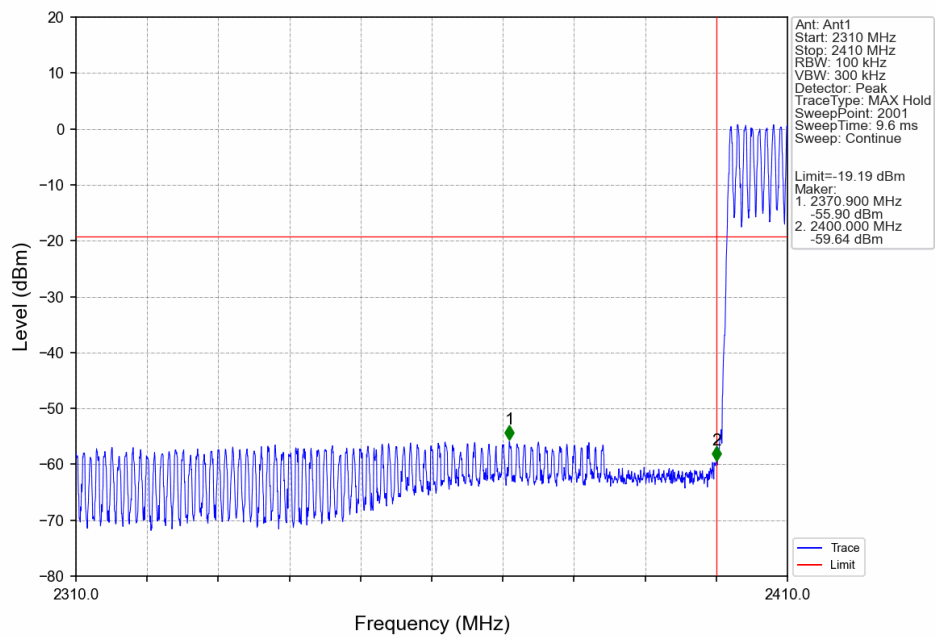
# GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



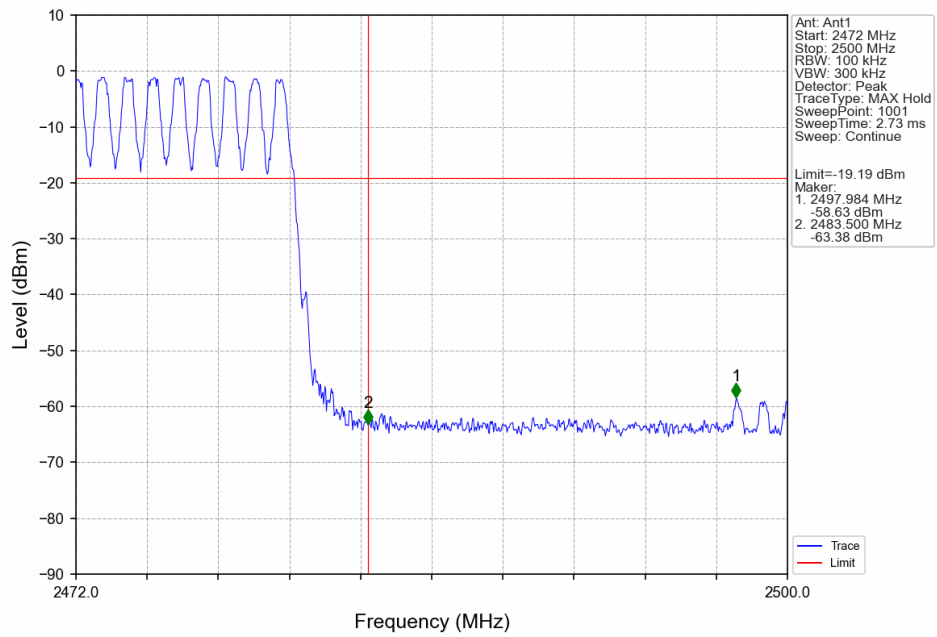
# GFSK DH5 HCH 2480MHz\_Ant1\_NTNV



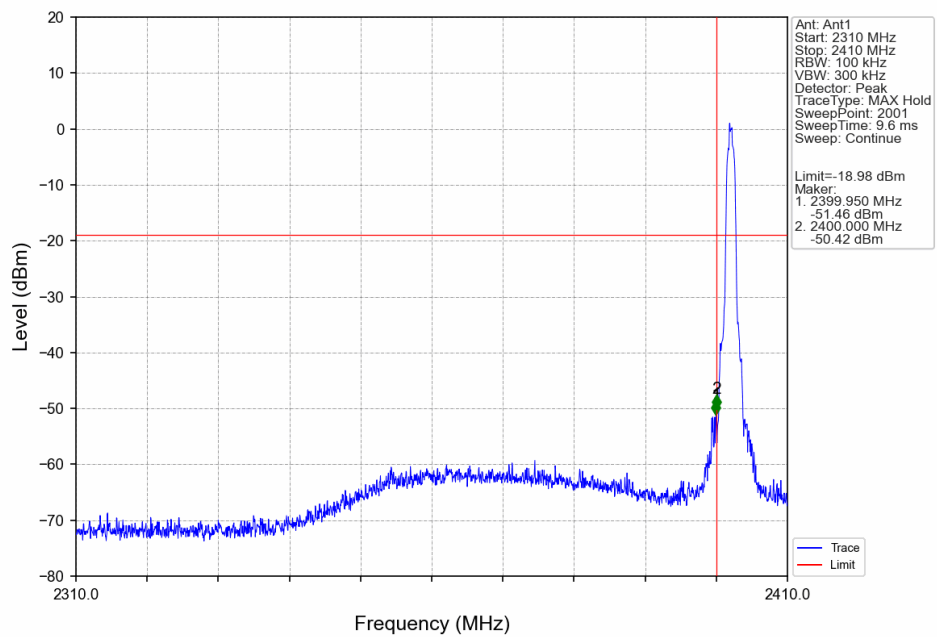
# GFSK DH5 HOPP Ant1 NTN



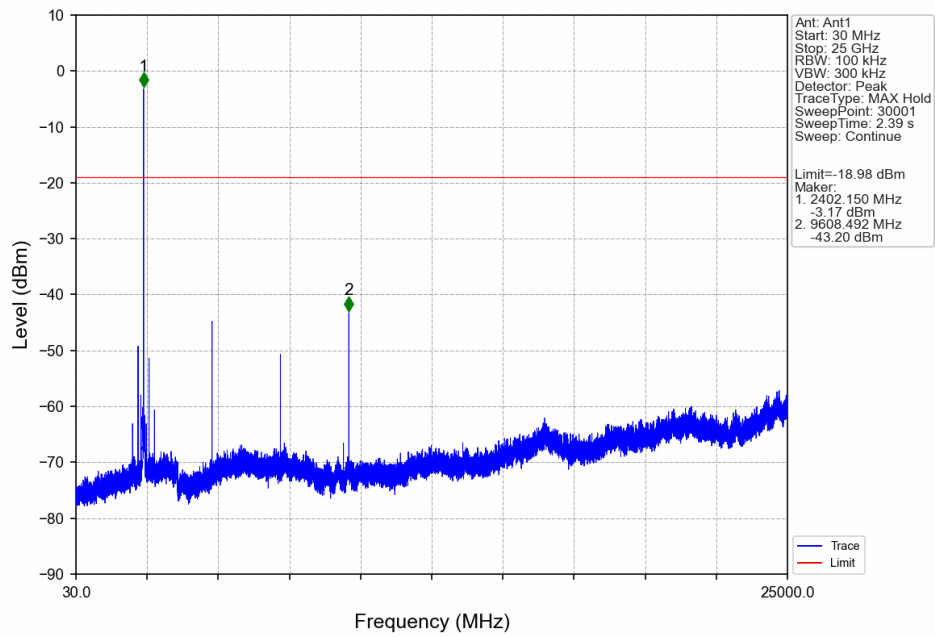
# GFSK\_DH5\_HOPP\_Ant1\_NTNV



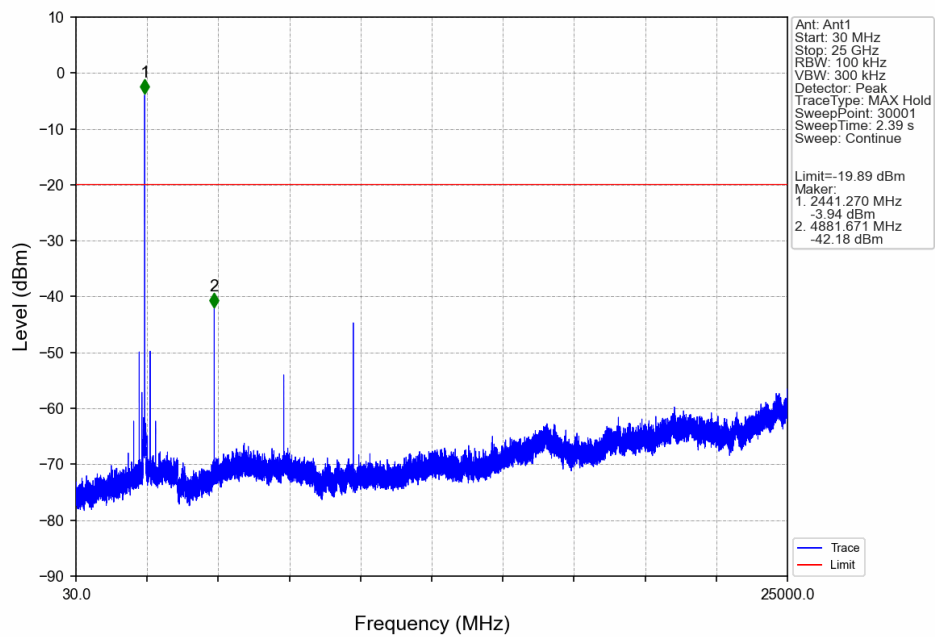
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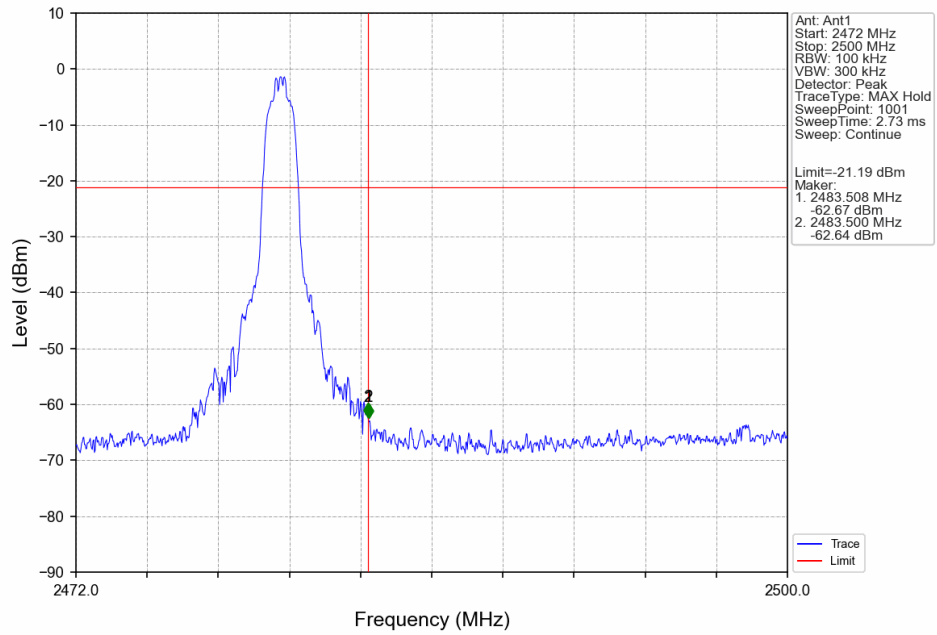
Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



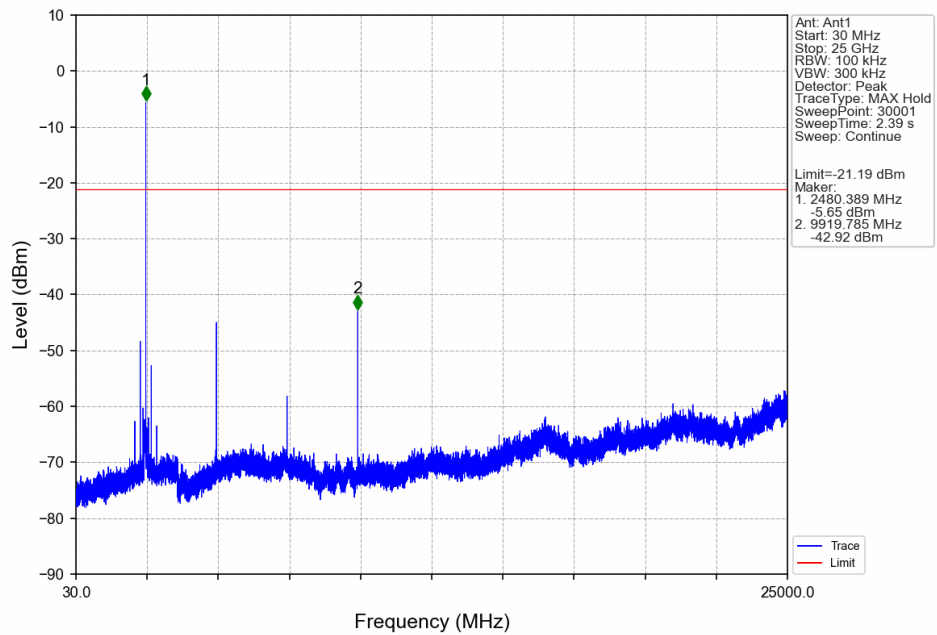
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



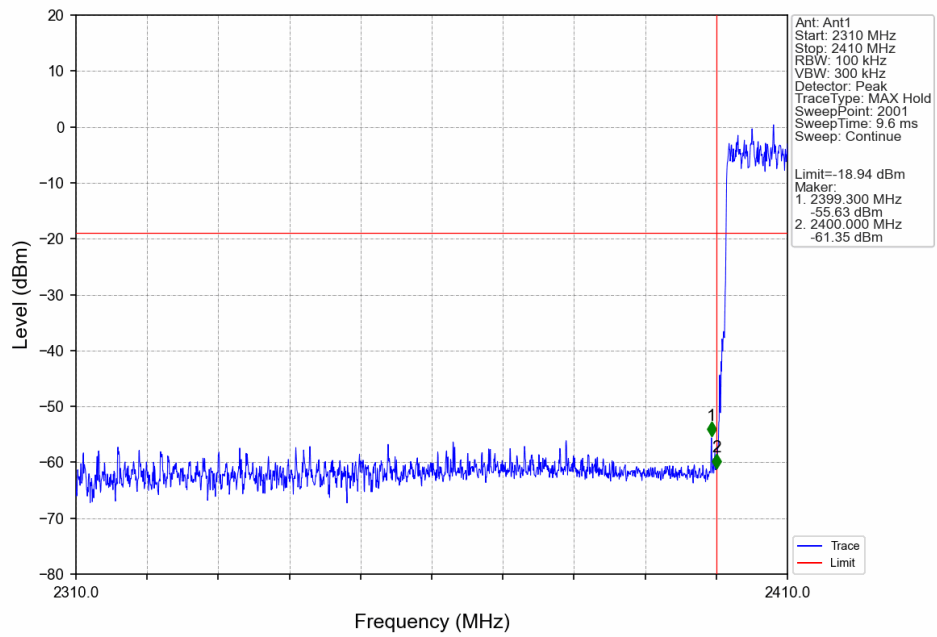
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



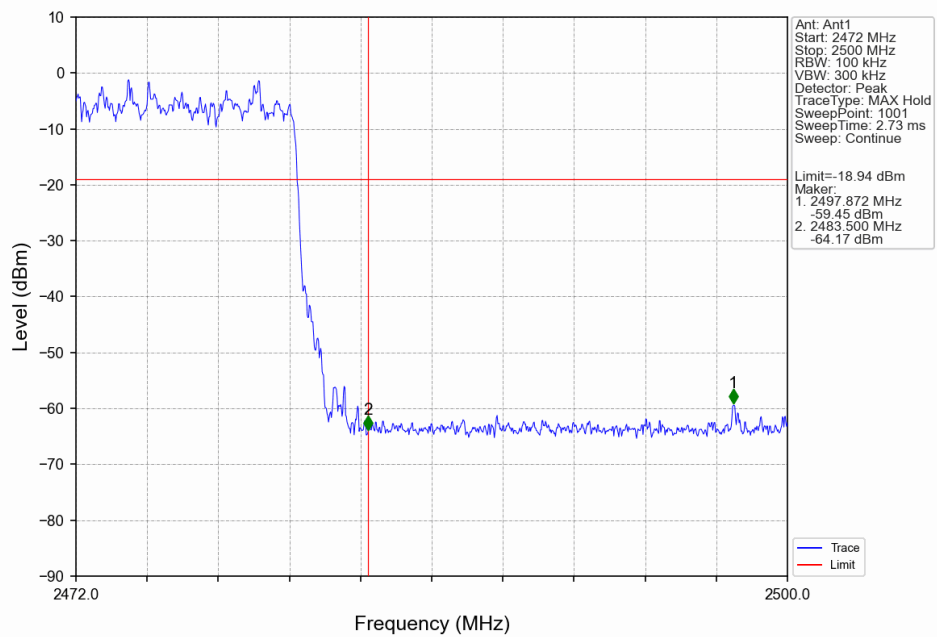
# Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant1\_NTNV



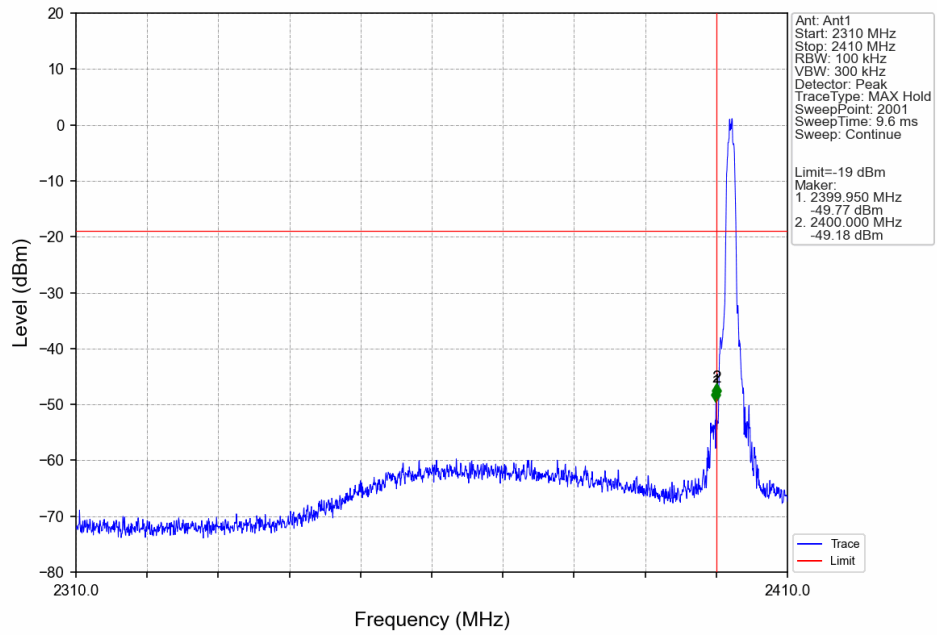
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



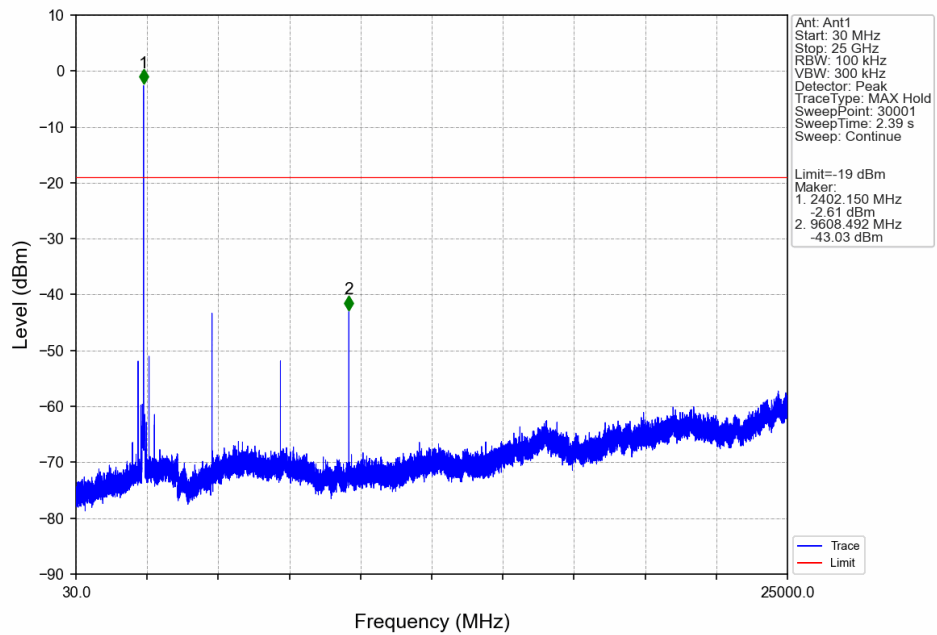
# Pi/4DQPSK\_2DH5\_HOPP\_Ant1\_NTNV



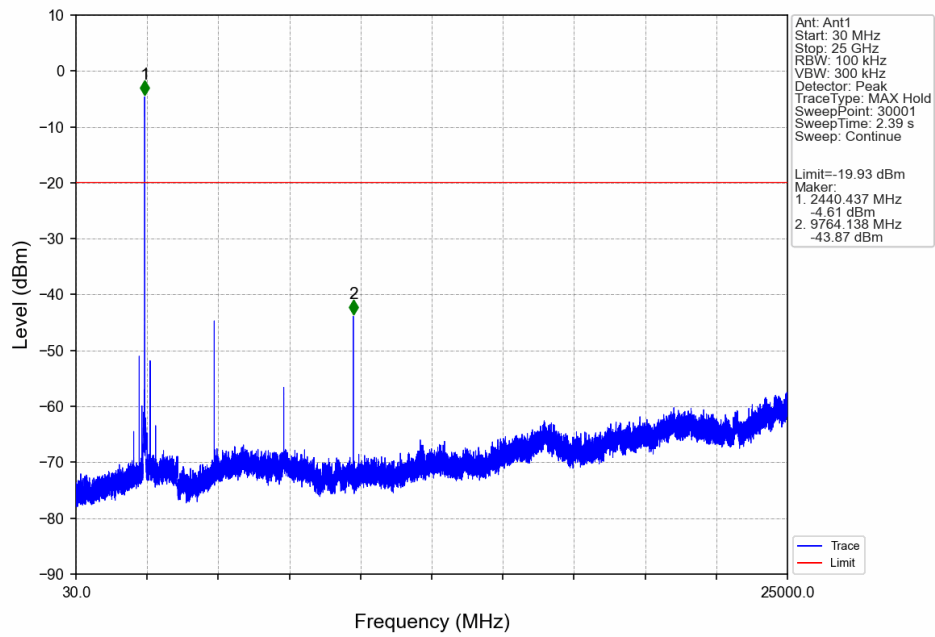
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



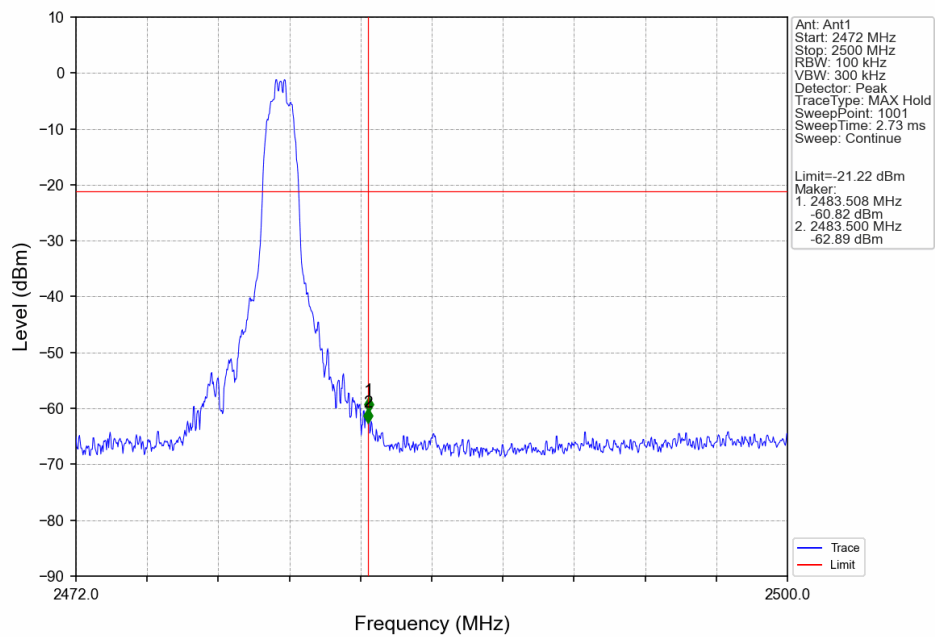
# 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



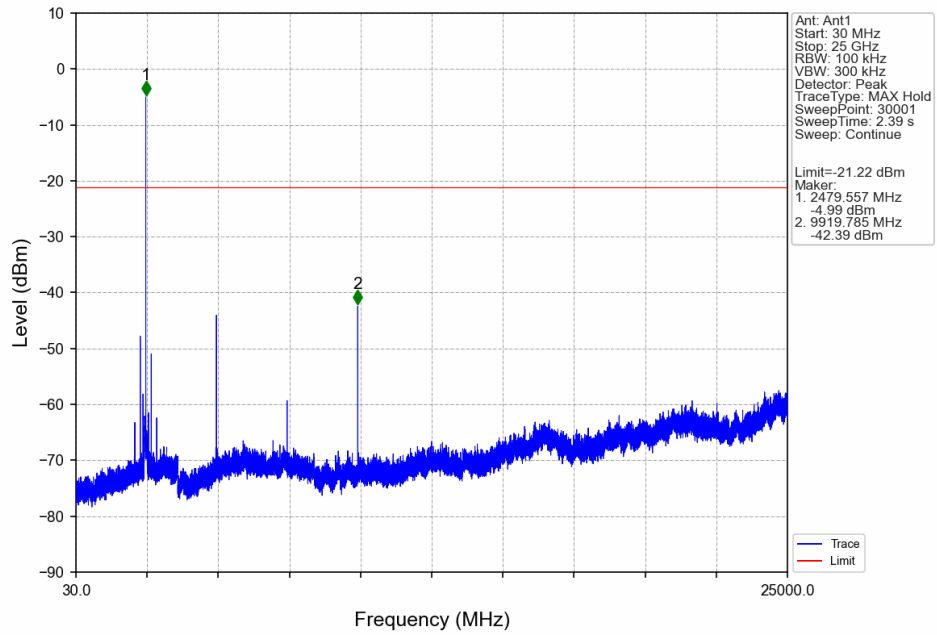
# 8DPSK\_3DH5\_MCH\_2441MHz\_Ant1\_NTNV



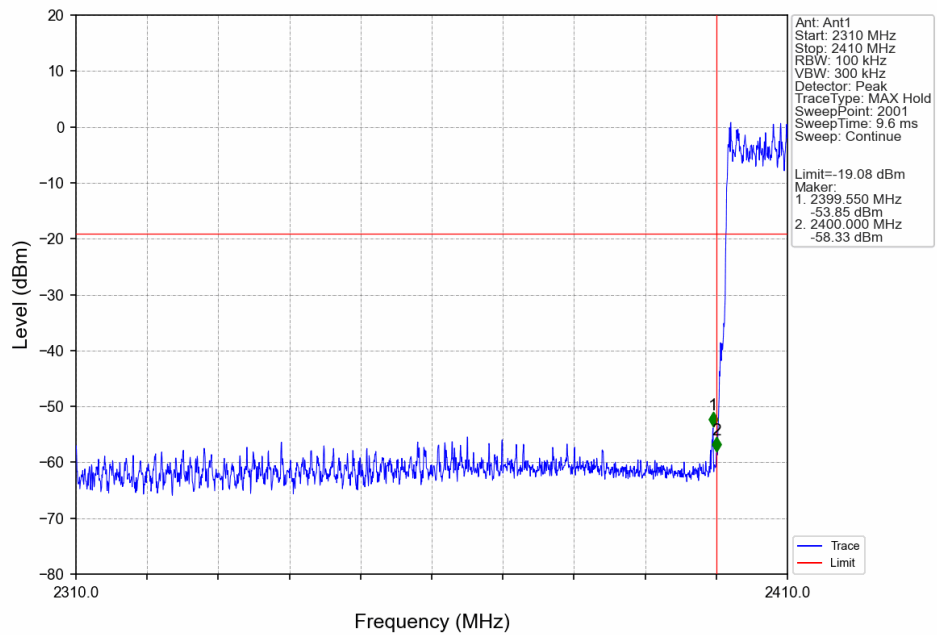
# 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV



# 8DPSK\_3DH5\_HOPP\_Ant1\_NTNV

