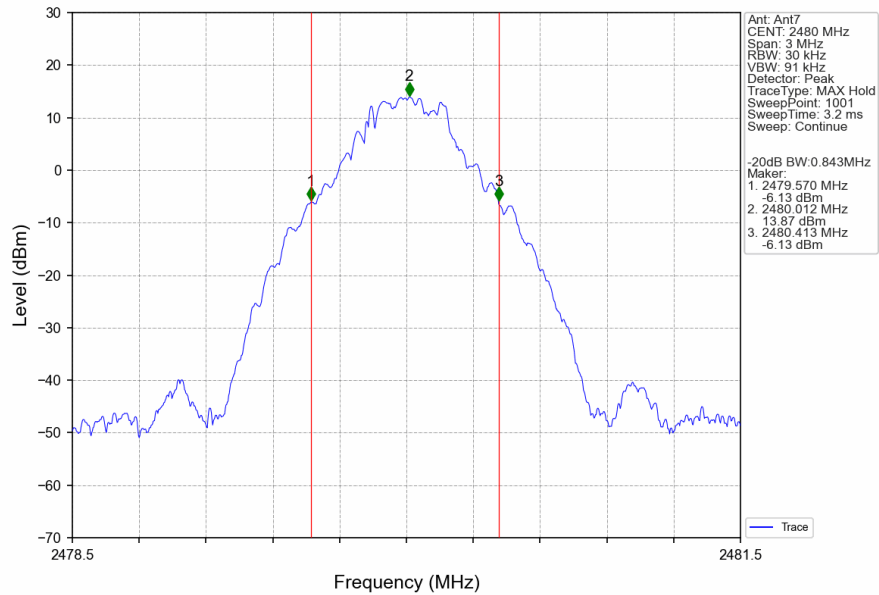
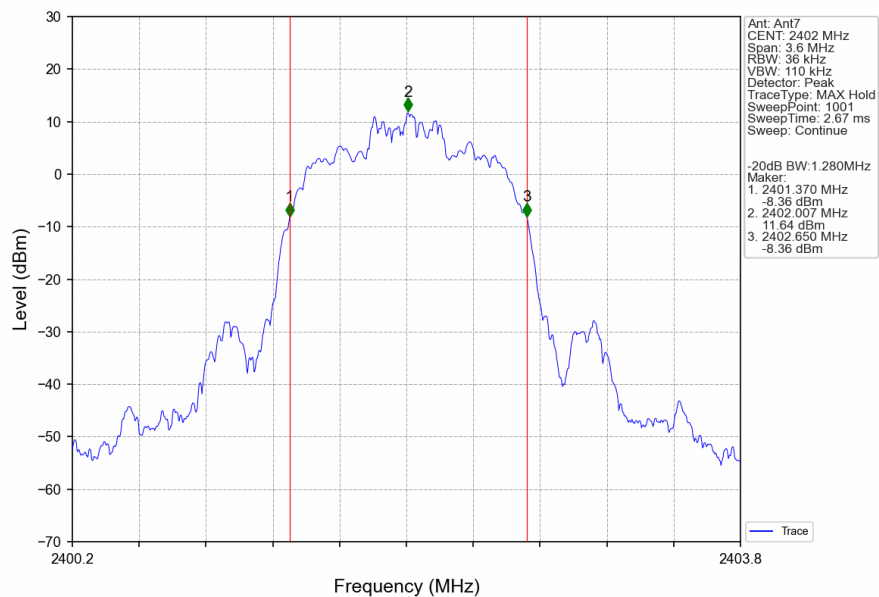


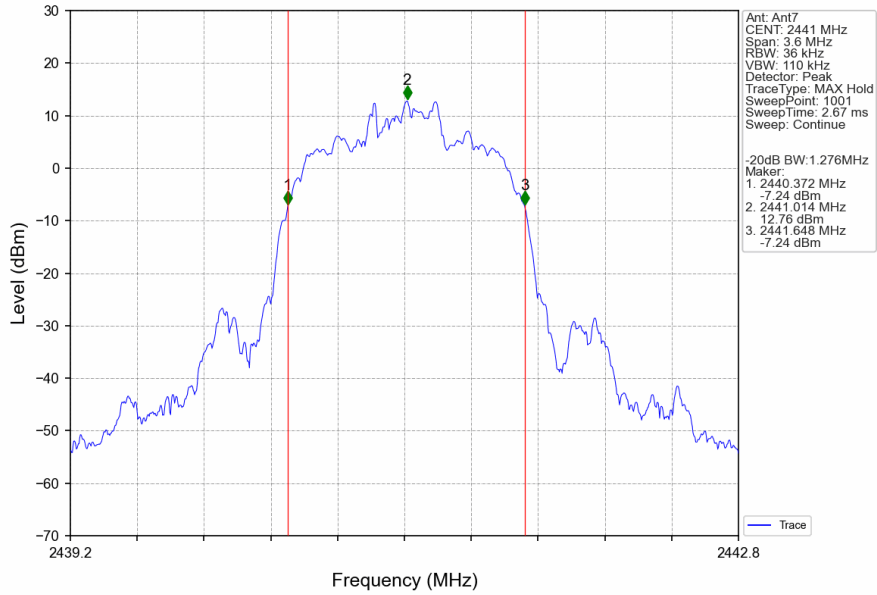
## GFSK\_DH5\_HCH\_2480MHz\_Ant7\_NTNV



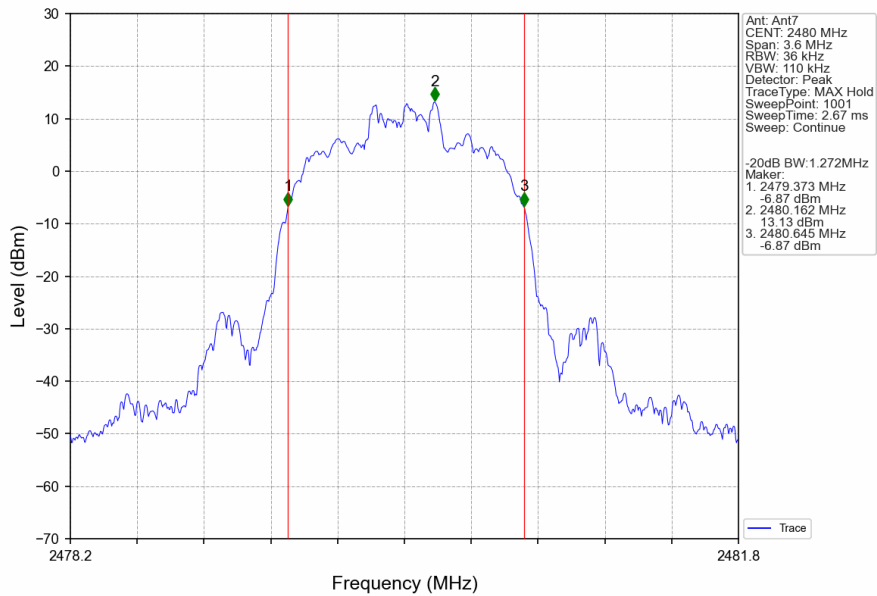
## Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant7\_NTNV



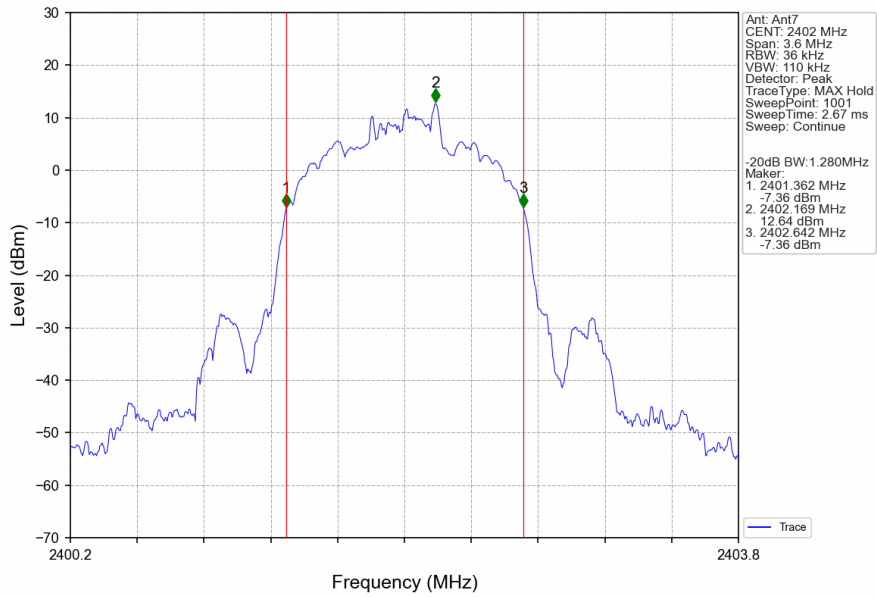
### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant7\_NTNV



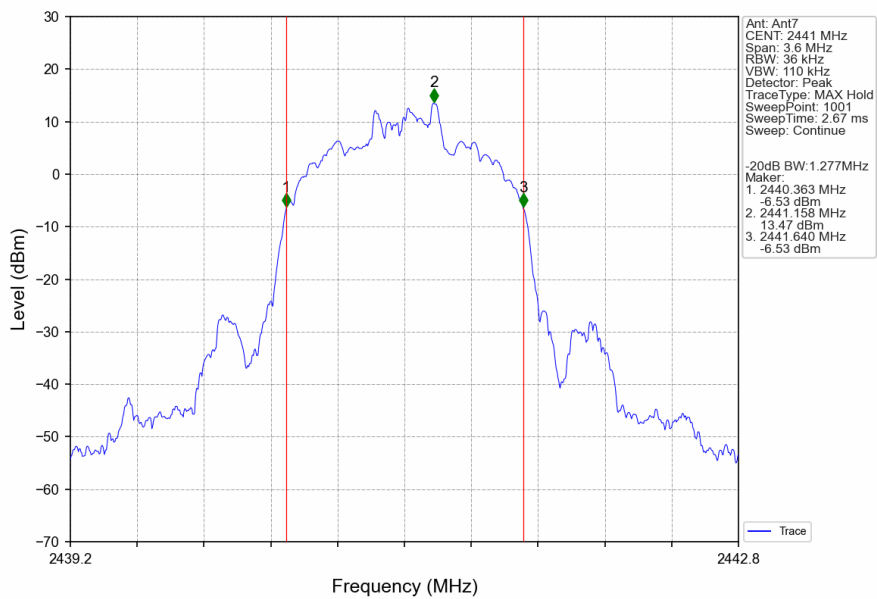
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant7\_NTNV

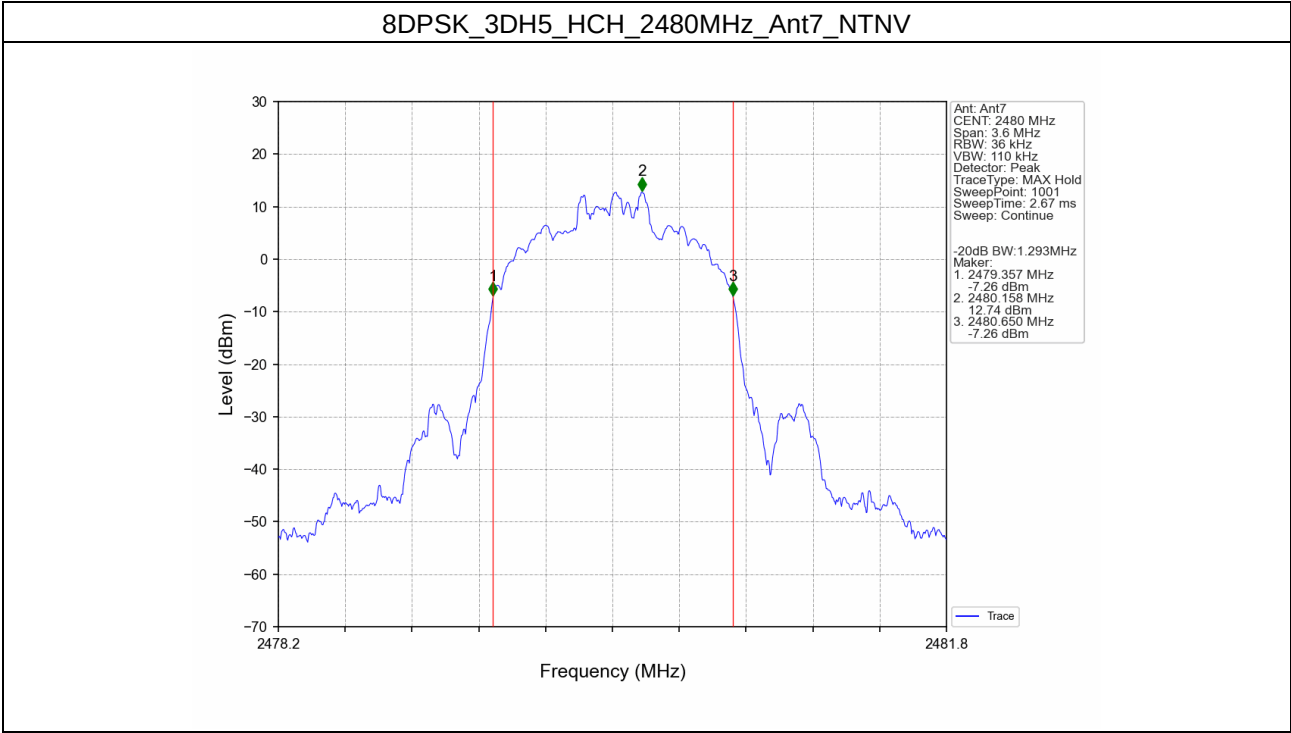


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant7\_NTNV



### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant7\_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 |
|-----------|---------|-----------------|-------------|-------------------------------------------|--------------|---------|
|           |         |                 |             | ANT7                                      | Limit        |         |
| GFSK      | SISO    | 2402            | DH5         | 16.37                                     | $\leq 30$    | Pass    |
|           |         | 2441            | DH5         | 16.53                                     | $\leq 30$    | Pass    |
|           |         | 2480            | DH5         | 16.52                                     | $\leq 30$    | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 15.09                                     | $\leq 20.97$ | Pass    |
|           |         | 2441            | 2DH5        | 15.93                                     | $\leq 20.97$ | Pass    |
|           |         | 2480            | 2DH5        | 15.81                                     | $\leq 20.97$ | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 15.00                                     | $\leq 20.97$ | Pass    |
|           |         | 2441            | 3DH5        | 15.81                                     | $\leq 20.97$ | Pass    |
|           |         | 2480            | 3DH5        | 15.97                                     | $\leq 20.97$ | Pass    |

Note1: Antenna Gain: Ant7: -1.50dBi;

## 3. Carrier Frequency Separation

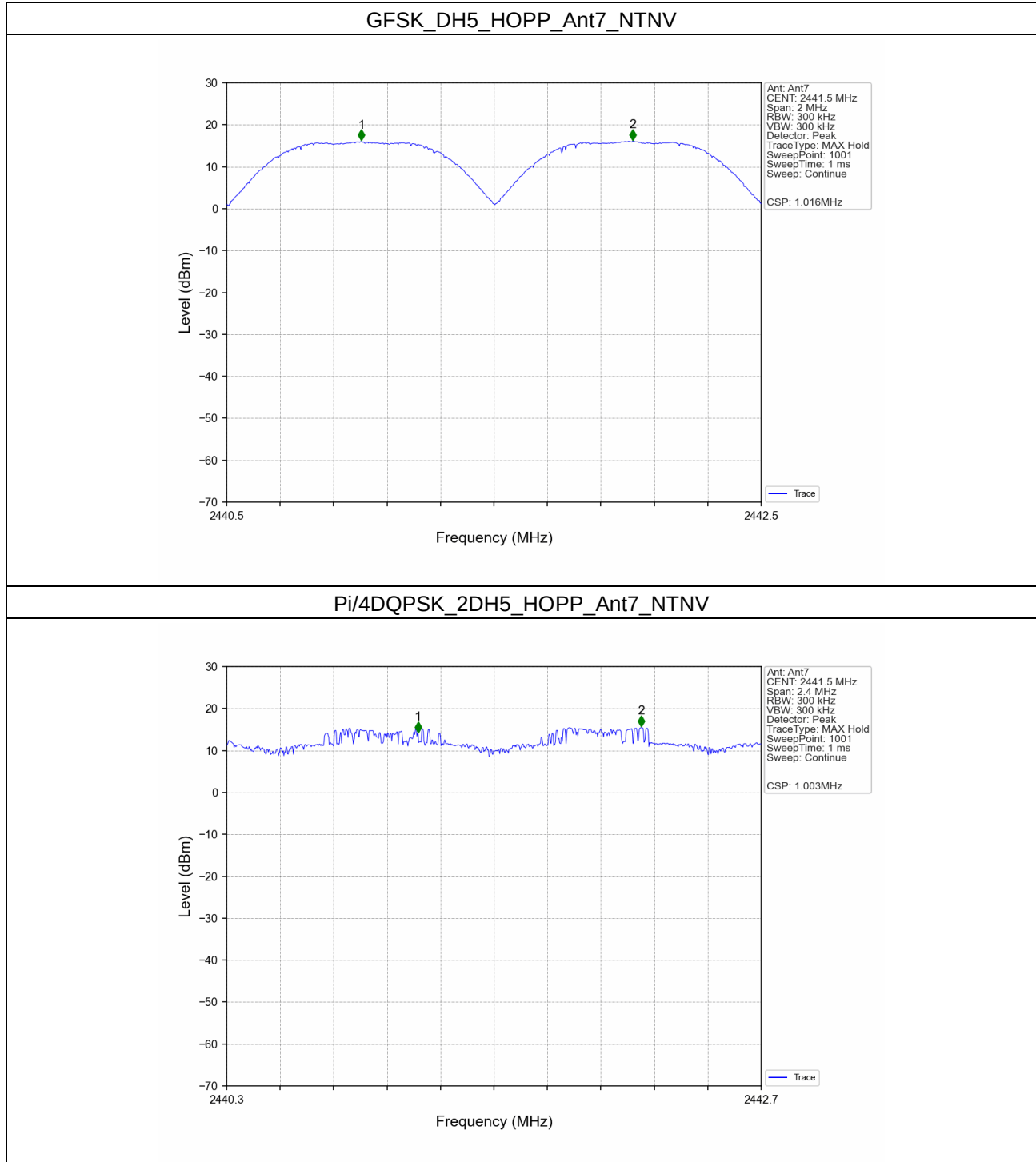
### 3.1 Test Result

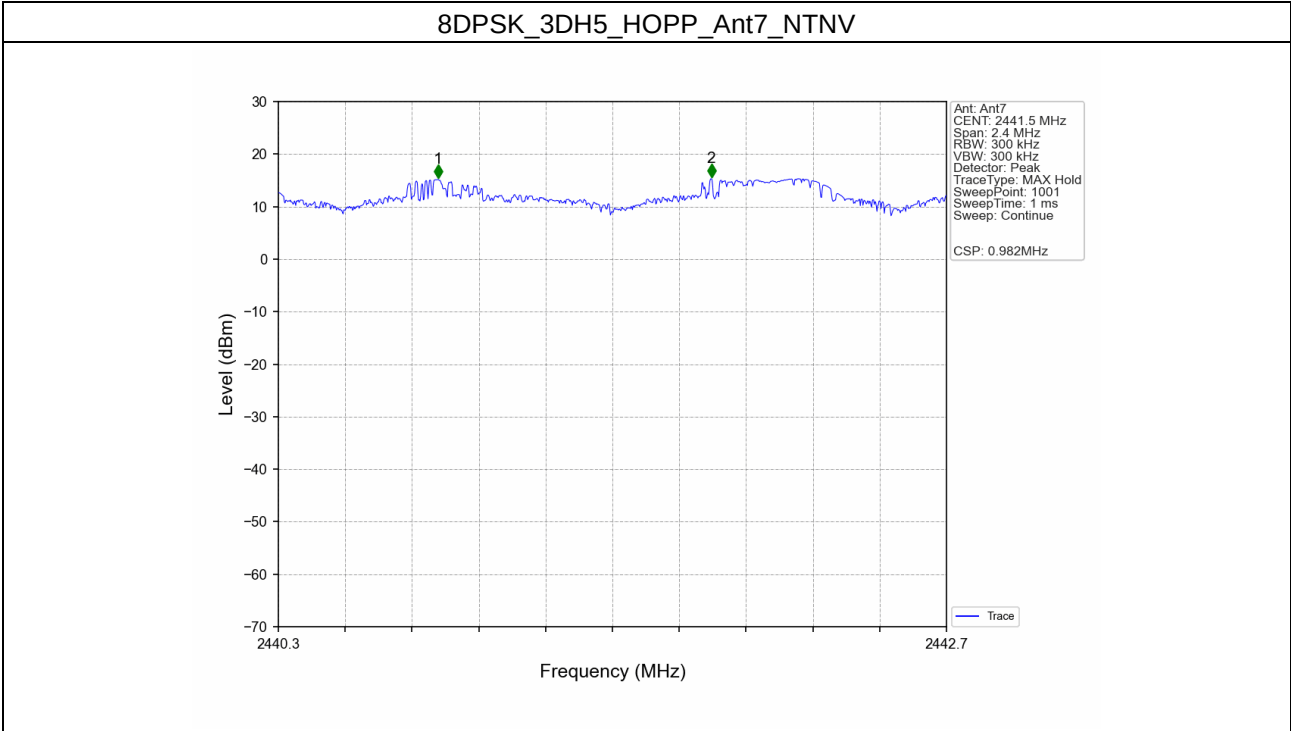
#### 3.1.1 Ant7

| Ant7      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 1.016                    | 0.846                | $\geq 0.564$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.003                    | 1.280                | $\geq 0.853$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 0.982                    | 1.293                | $\geq 0.862$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant7







4. Number of Hopping Frequencies

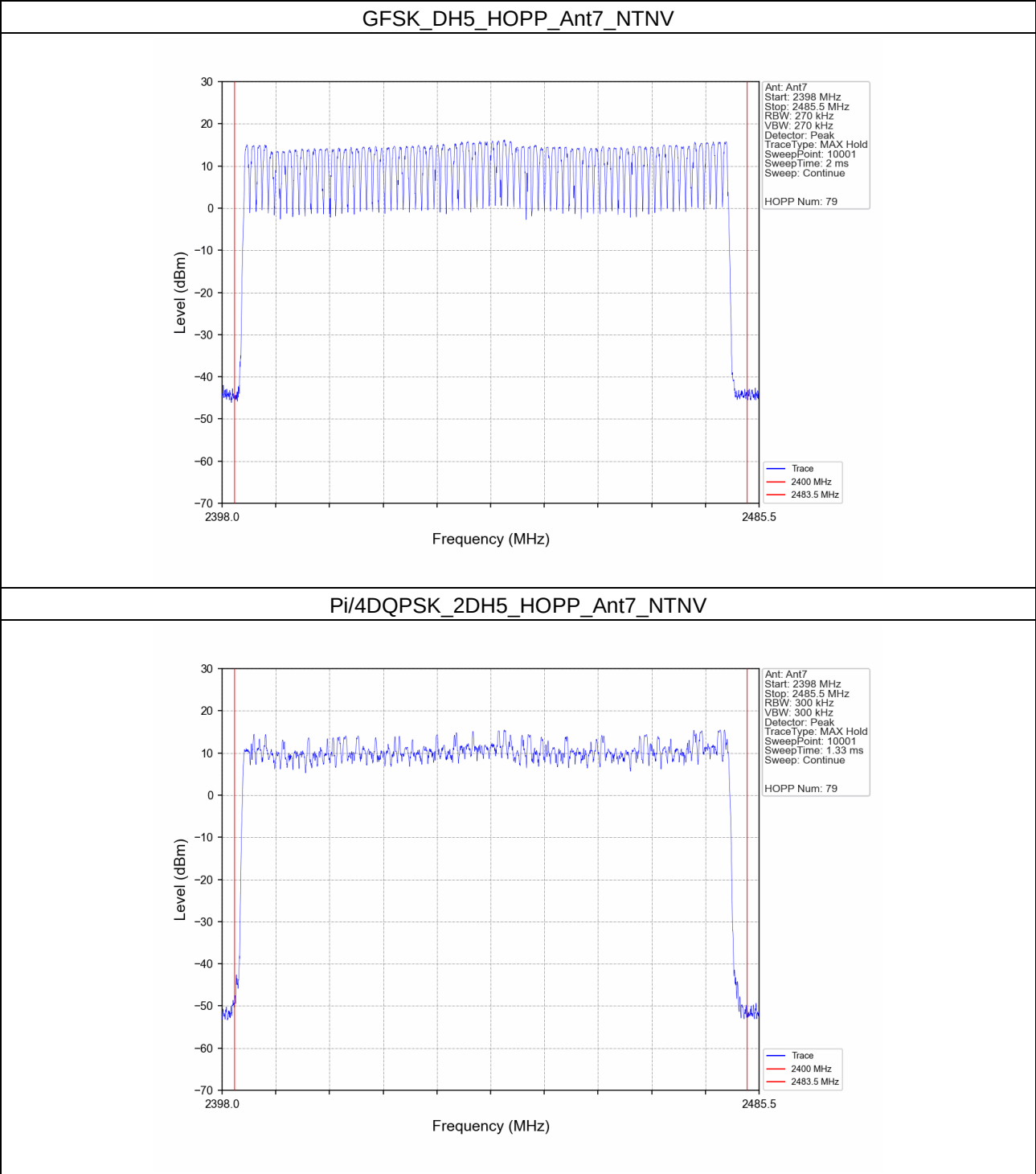
4.1 Test Result

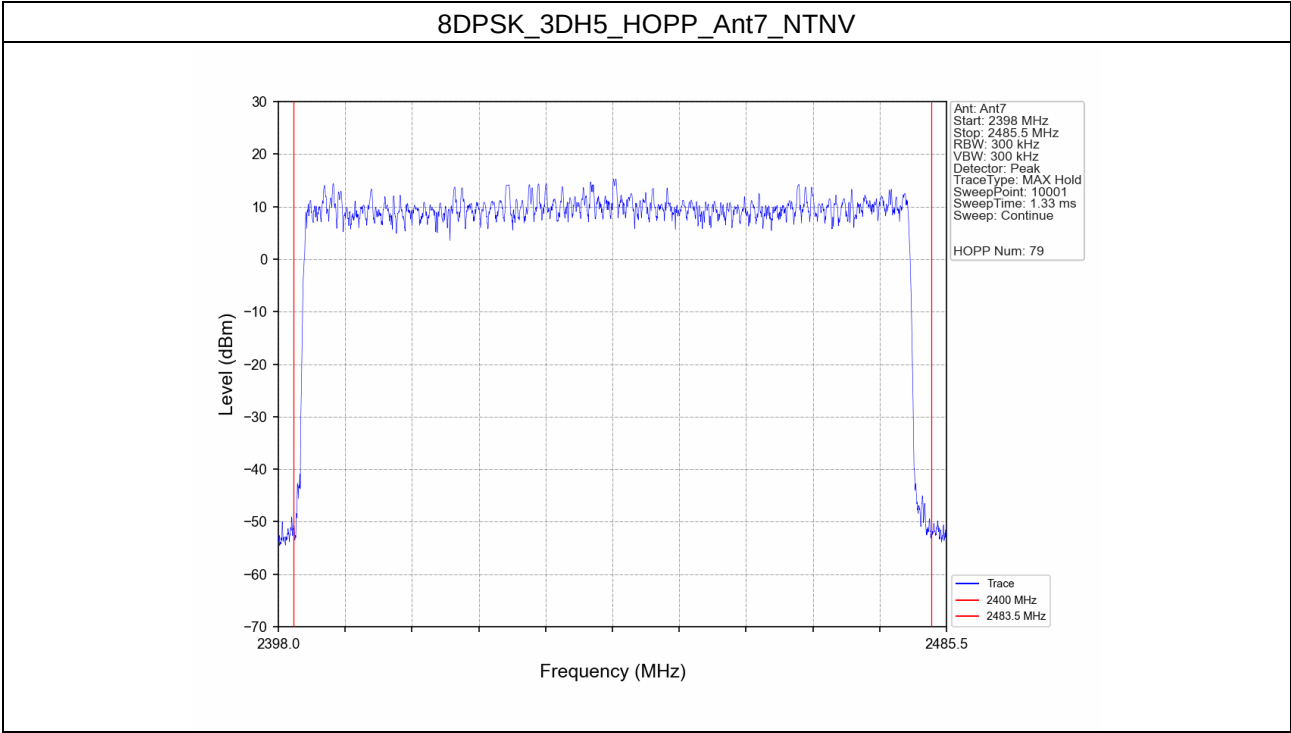
4.1.1 HoppNum

| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |       | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
|           |         |                 |             | ANT7                       | 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







## 5. Time of Occupancy (Dwell Time)

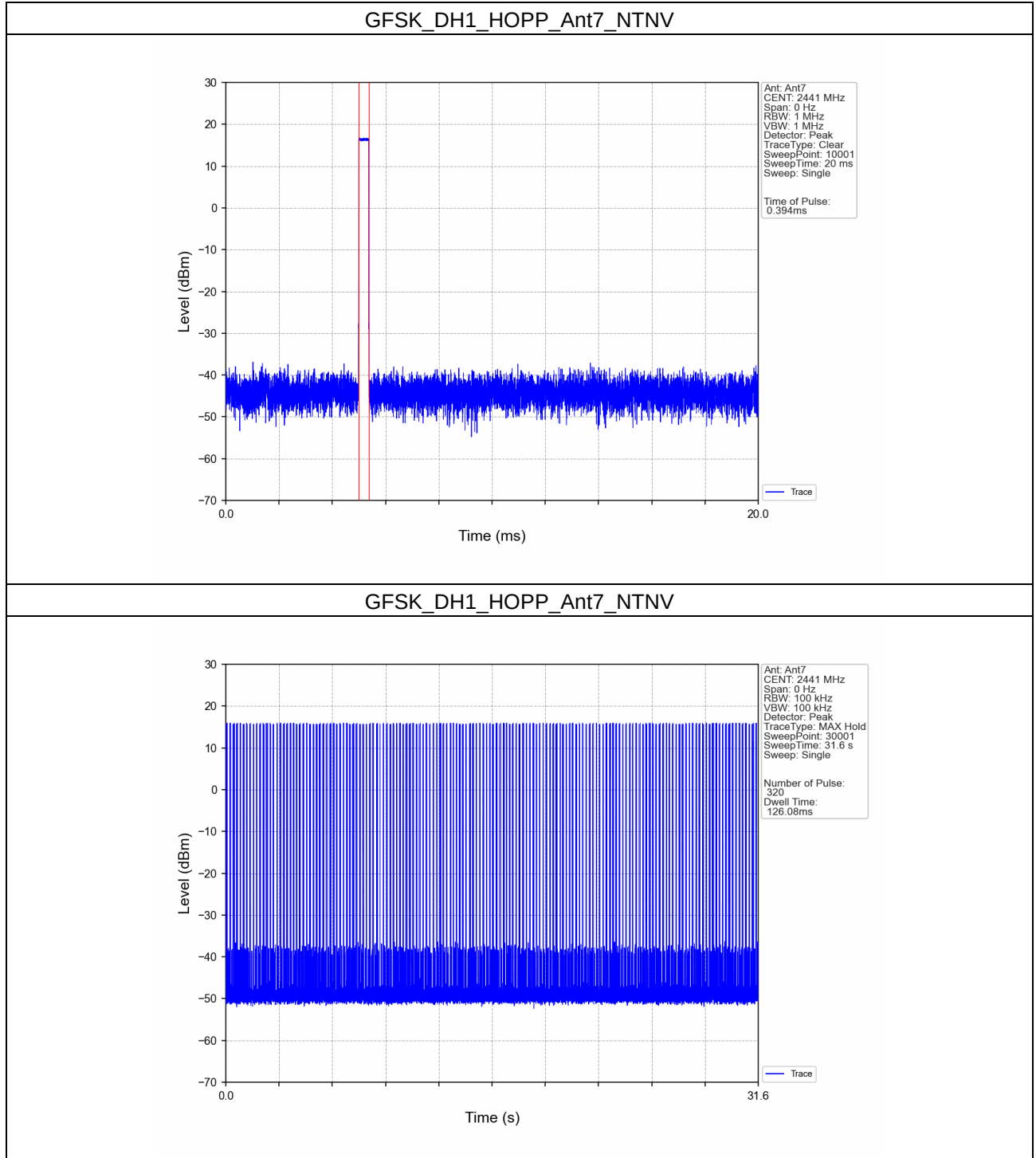
### 5.1 Test Result

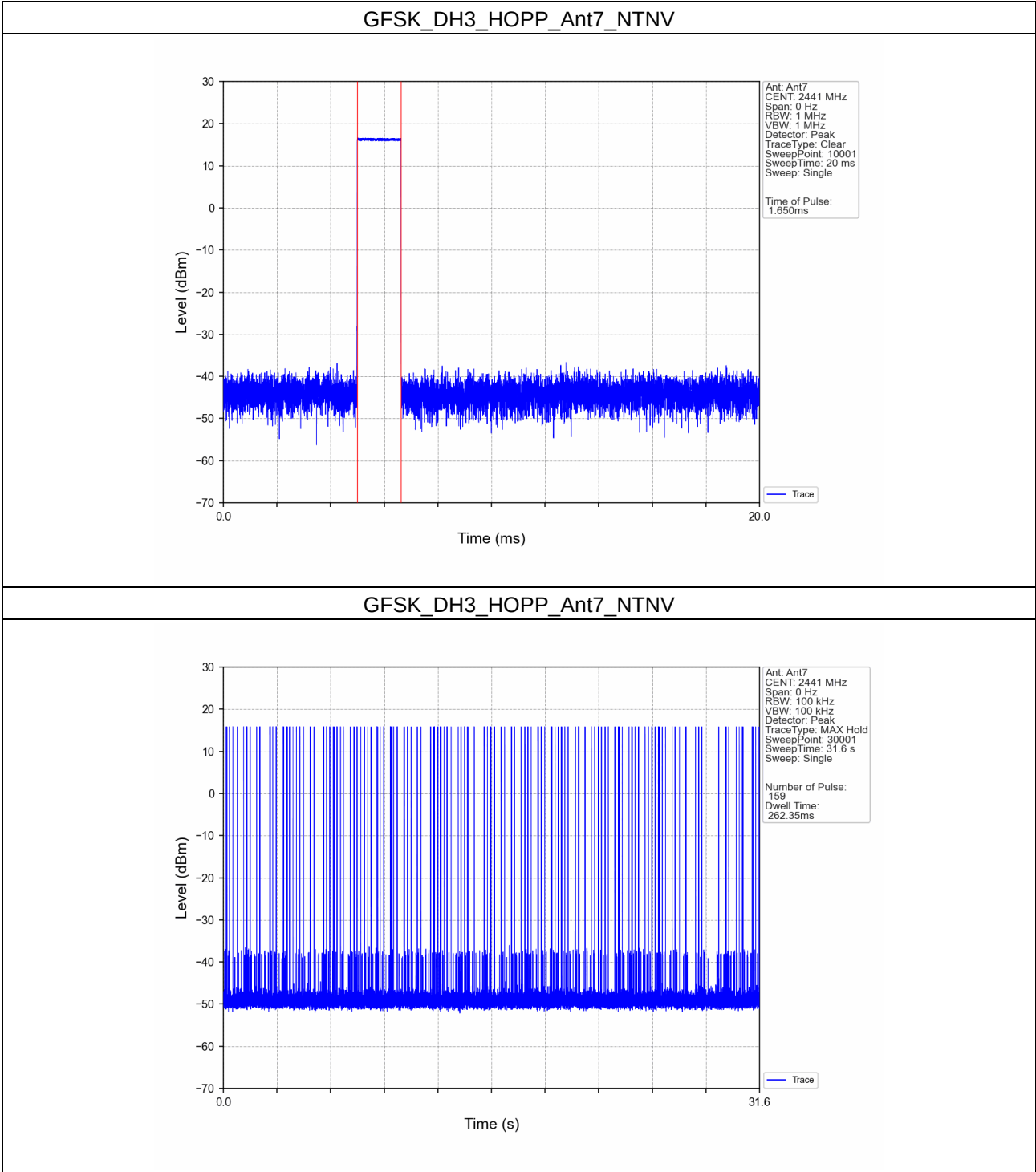
#### 5.1.1 Ant7

| Ant7      |         |                 |             |                               |                        |                                    |                 |            |         |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| 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         | 1.650                         | 31.600                 | 159                                | 262.350         | <=400      | Pass    |
|           |         |                 | DH5         | 2.898                         | 31.600                 | 116                                | 336.168         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.388                         | 31.600                 | 320                                | 124.160         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.640                         | 31.600                 | 161                                | 264.040         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.900                         | 31.600                 | 103                                | 298.700         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.400                         | 31.600                 | 320                                | 128.000         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.652                         | 31.600                 | 162                                | 267.624         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.904                         | 31.600                 | 107                                | 310.728         | <=400      | Pass    |

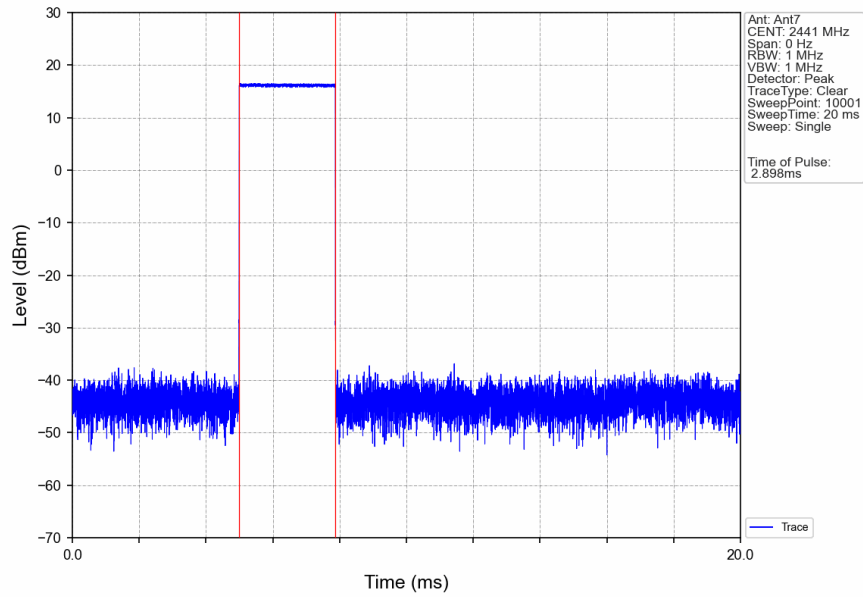
## 5.2 Test Graph

### 5.2.1 Ant7

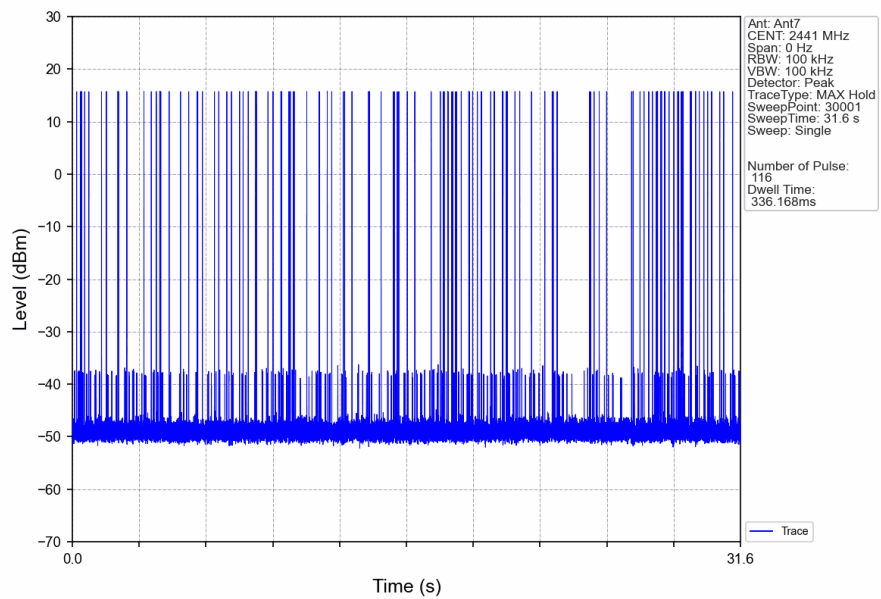




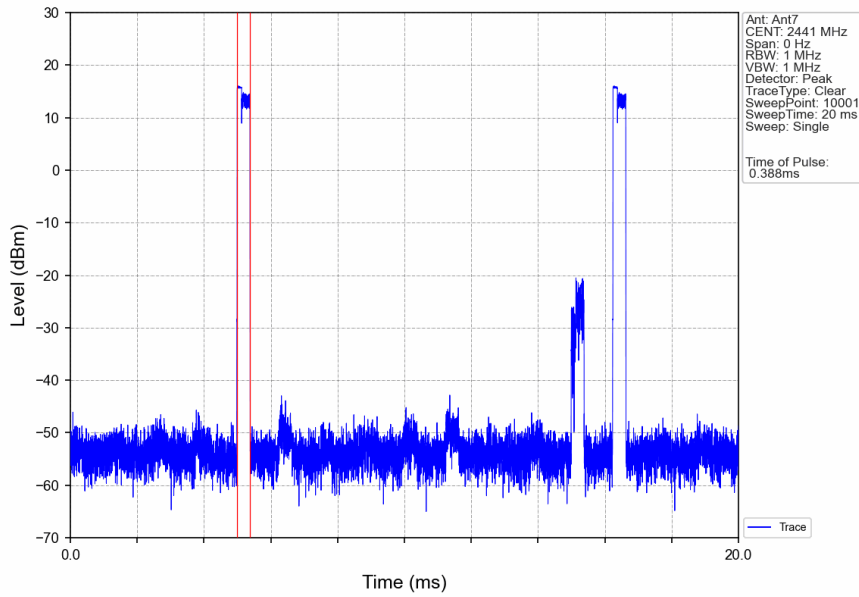
### GFSK\_DH5\_HOPP\_Ant7\_NTNV



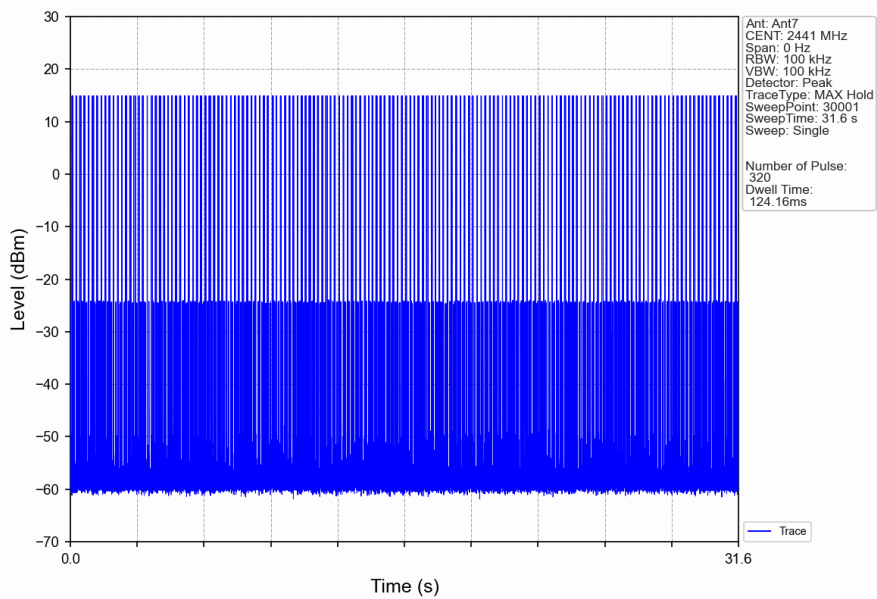
### GFSK\_DH5\_HOPP\_Ant7\_NTNV



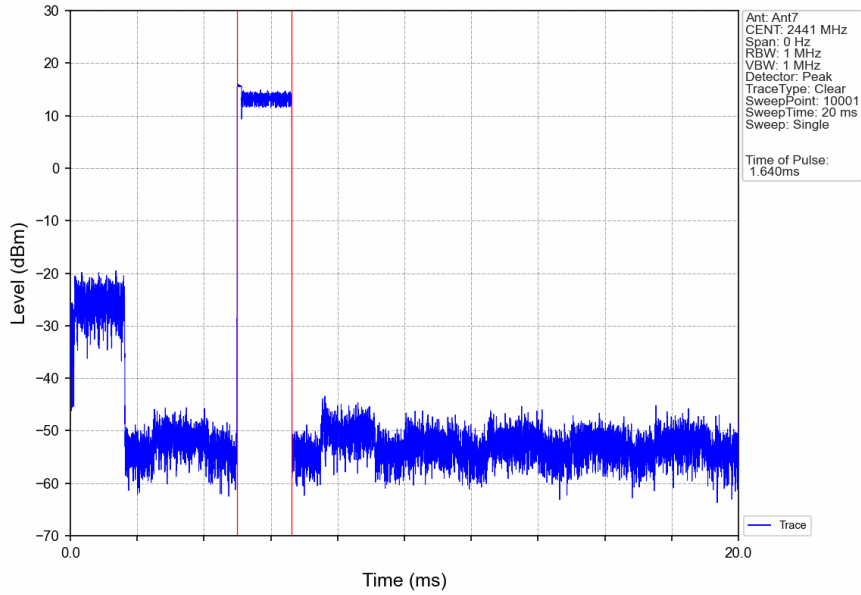
Pi/4DQPSK\_2DH1\_HOPP\_Ant7\_NTNV



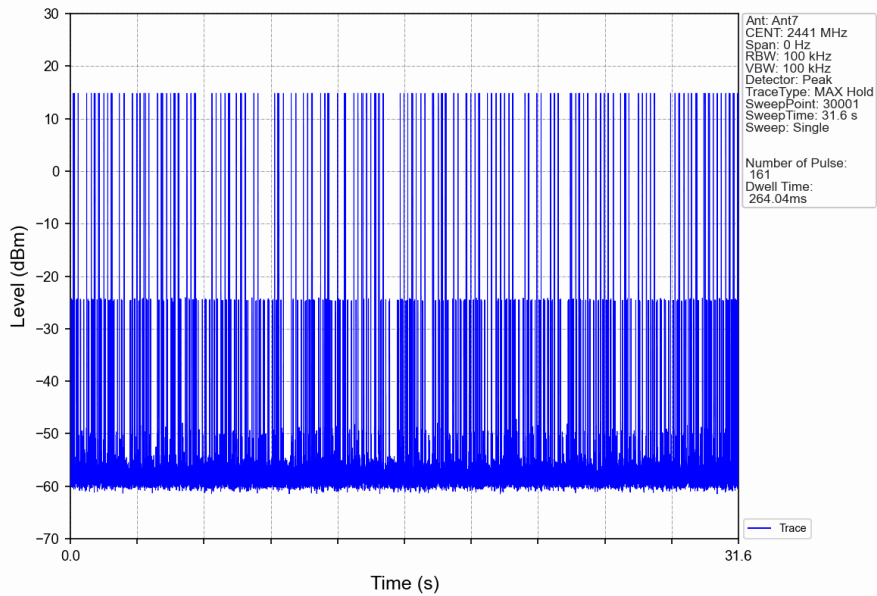
Pi/4DQPSK\_2DH1\_HOPP\_Ant7\_NTNV



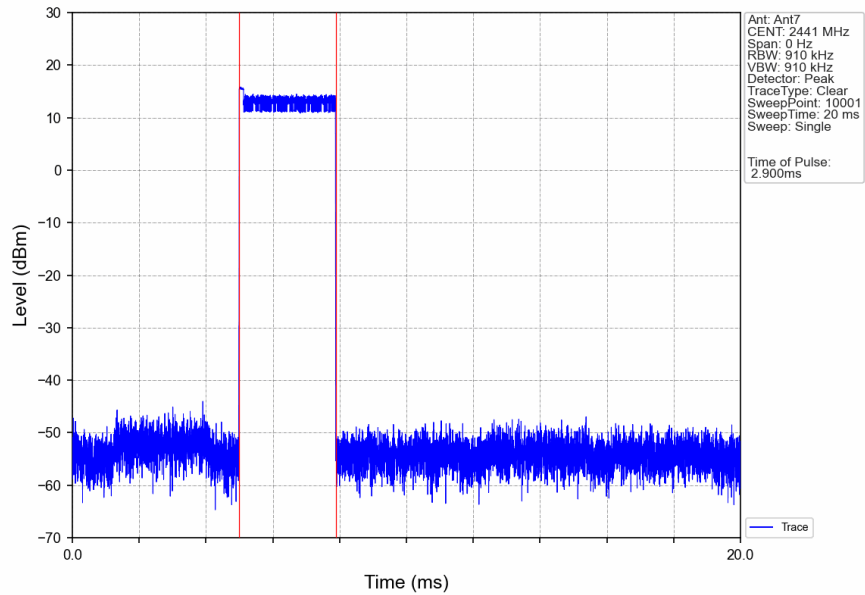
## Pi/4DQPSK\_2DH3\_HOPP\_Ant7\_NTNV



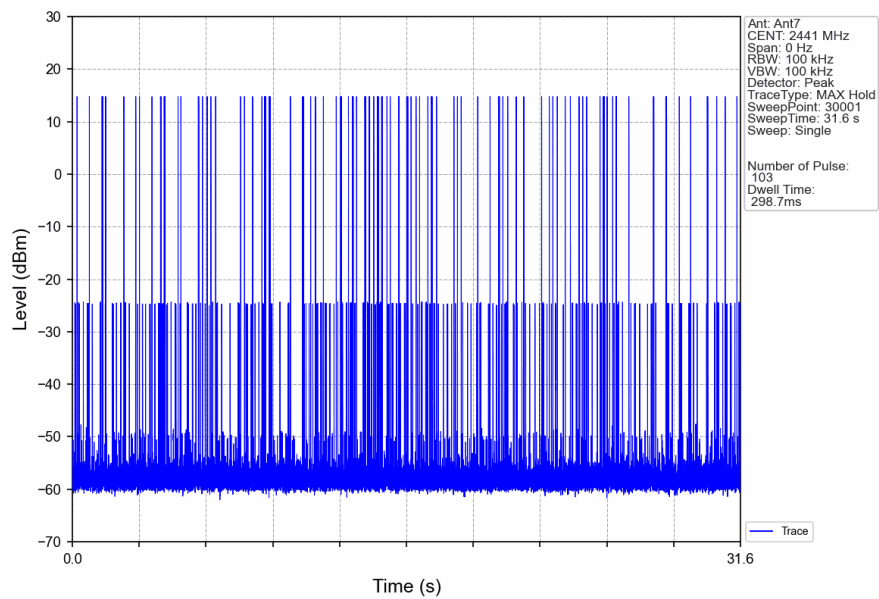
## Pi/4DQPSK\_2DH3\_HOPP\_Ant7\_NTNV



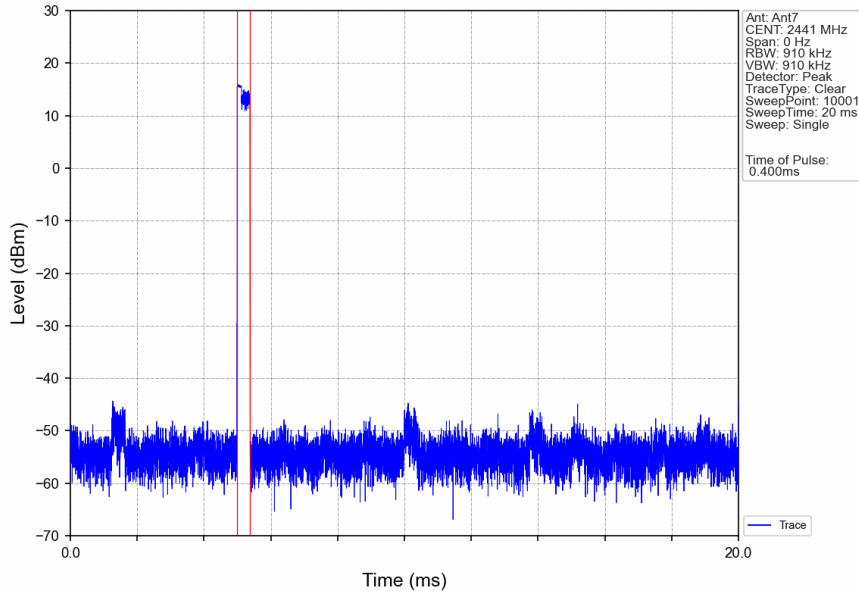
## Pi/4DQPSK\_2DH5\_HOPP\_Ant7\_NTNV



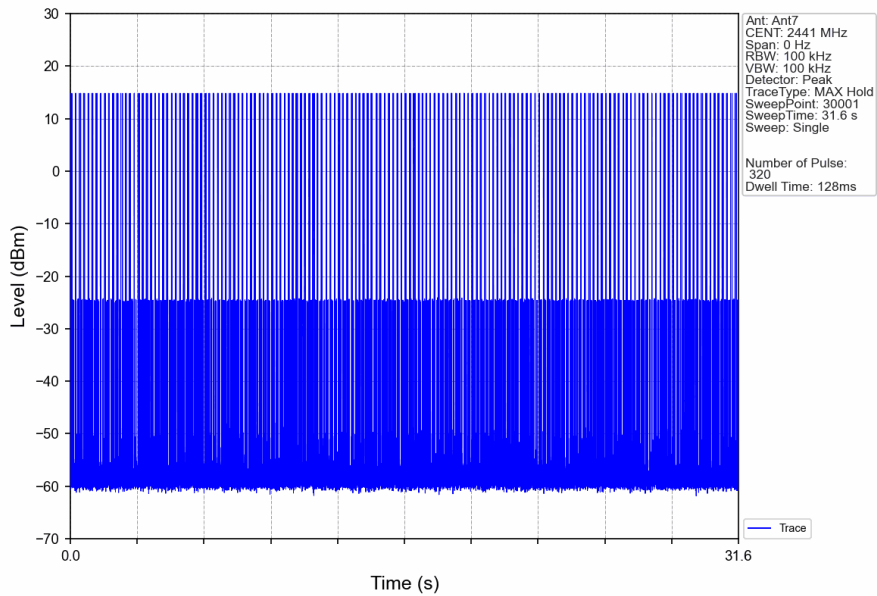
## Pi/4DQPSK\_2DH5\_HOPP\_Ant7\_NTNV



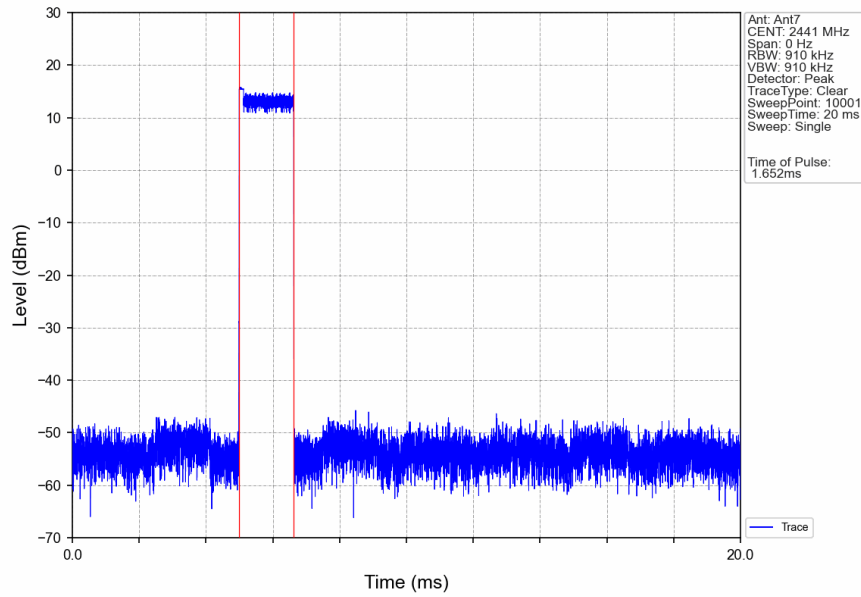
### 8DPSK\_3DH1\_HOPP\_Ant7\_NTNV



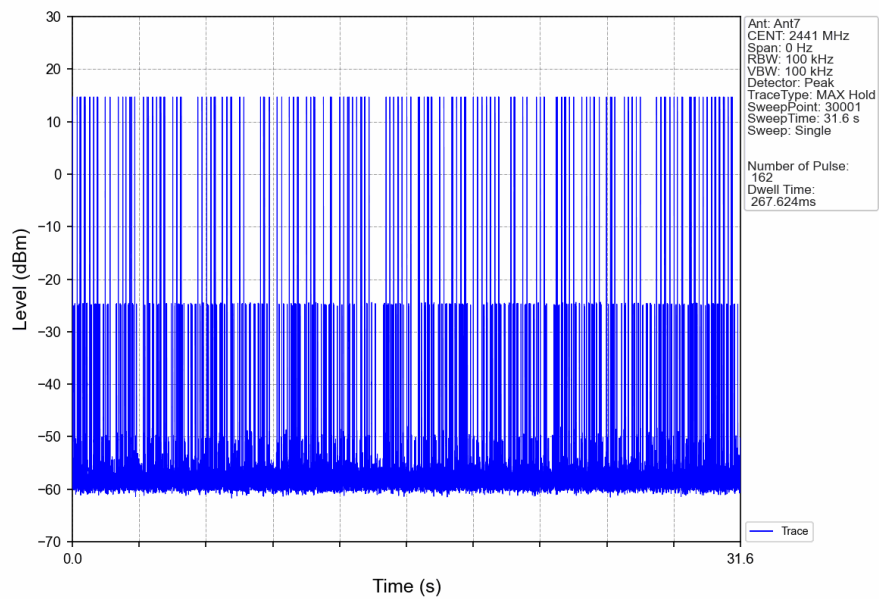
### 8DPSK\_3DH1\_HOPP\_Ant7\_NTNV

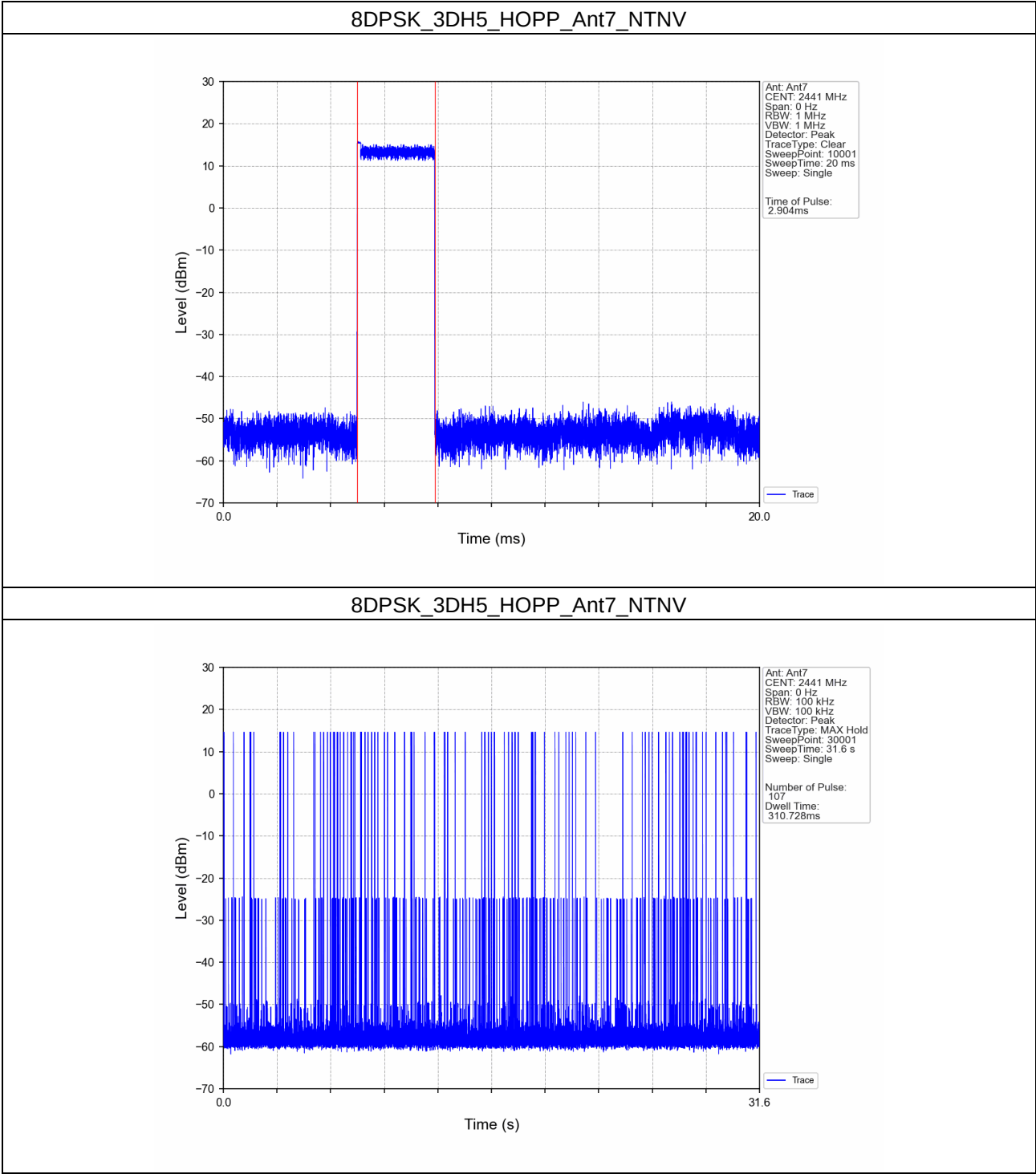


### 8DPSK\_3DH3\_HOPP\_Ant7\_NTNV



### 8DPSK\_3DH3\_HOPP\_Ant7\_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         | 7   | 15.10                    |
|           |         | 2441            | DH5         | 7   | 15.96                    |
|           |         | 2480            | DH5         | 7   | 16.03                    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 7   | 14.72                    |
|           |         | 2441            | 2DH5        | 7   | 15.47                    |
|           |         | 2480            | 2DH5        | 7   | 15.32                    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 7   | 14.66                    |
|           |         | 2441            | 3DH5        | 7   | 15.54                    |
|           |         | 2480            | 3DH5        | 7   | 15.64                    |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

#### 6.1.2 CSE

| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 7   | 16.03                    | -3.97       | Pass    |
|           |         | 2441            | DH5         | 7   | 16.03                    | -3.97       | Pass    |
|           |         | 2480            | DH5         | 7   | 16.03                    | -3.97       | Pass    |
|           |         | HOPP            | DH5         | 7   | 16.03                    | -3.97       | Pass    |
|           |         |                 |             |     | 16.03                    | -3.97       | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 7   | 15.47                    | -4.53       | Pass    |
|           |         | 2441            | 2DH5        | 7   | 15.47                    | -4.53       | Pass    |
|           |         | 2480            | 2DH5        | 7   | 15.47                    | -4.53       | Pass    |
|           |         | HOPP            | 2DH5        | 7   | 15.47                    | -4.53       | Pass    |
|           |         |                 |             |     | 15.47                    | -4.53       | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 7   | 15.64                    | -4.36       | Pass    |
|           |         | 2441            | 3DH5        | 7   | 15.64                    | -4.36       | Pass    |
|           |         | 2480            | 3DH5        | 7   | 15.64                    | -4.36       | Pass    |
|           |         | HOPP            | 3DH5        | 7   | 15.64                    | -4.36       | Pass    |
|           |         |                 |             |     | 15.64                    | -4.36       | Pass    |



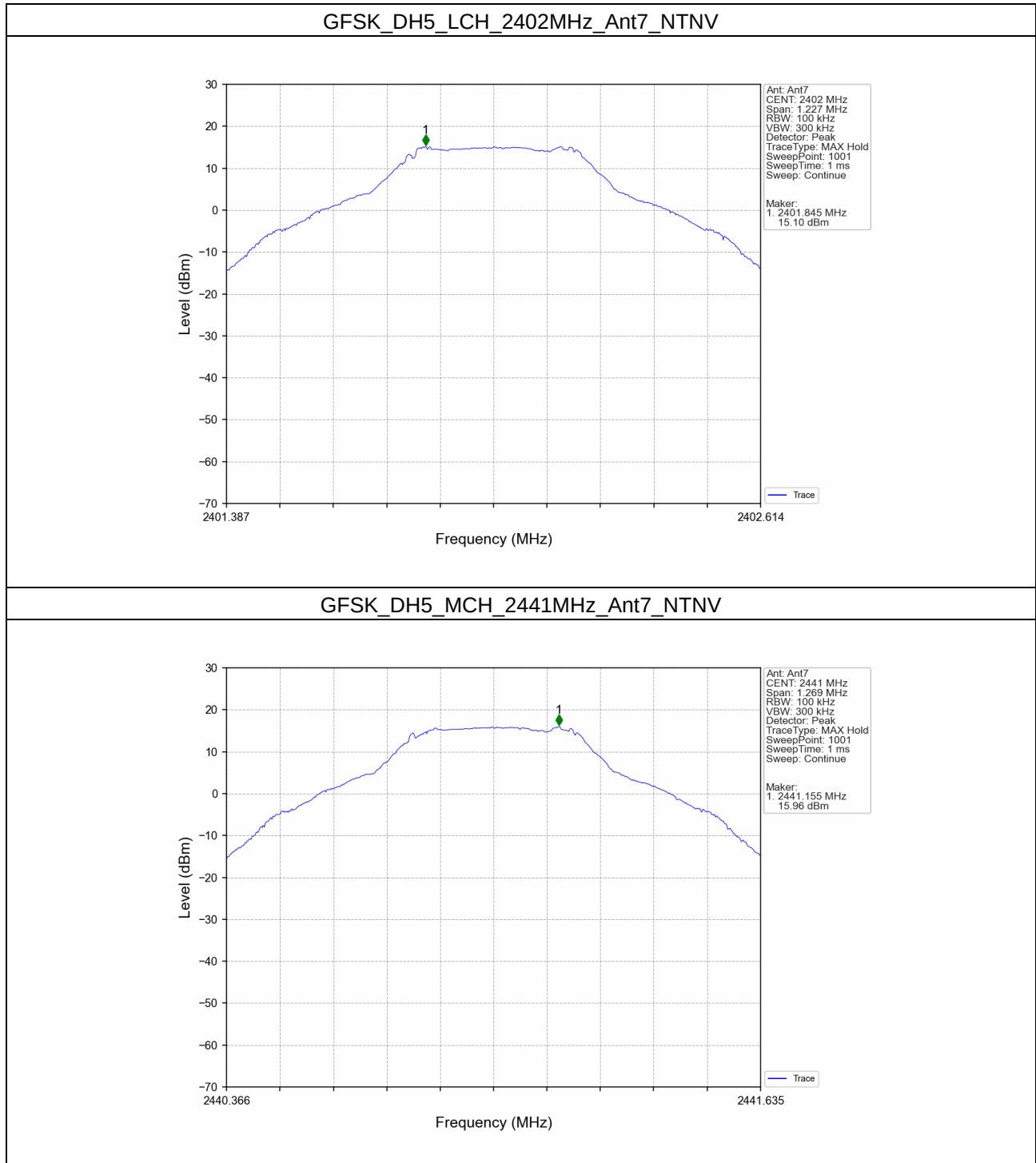
Report No.: SUCR250900091504

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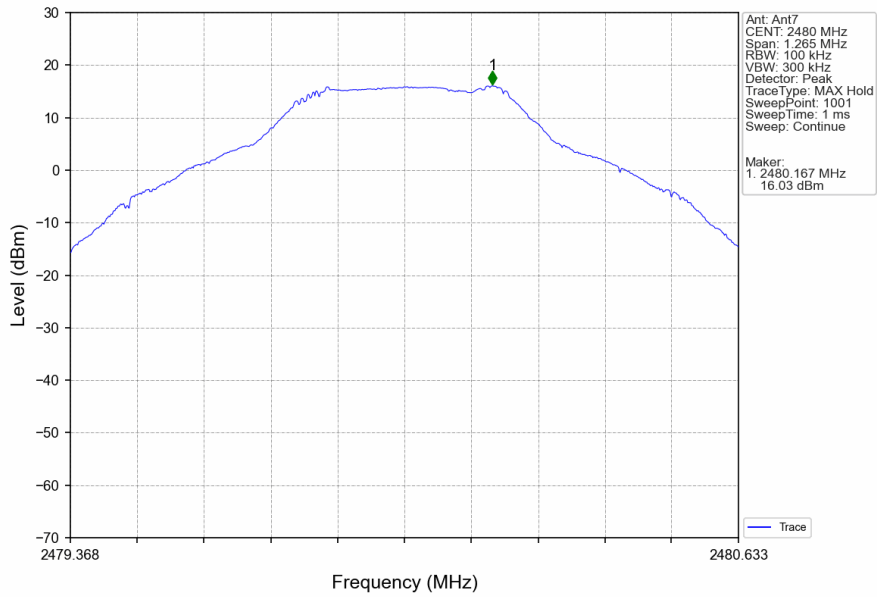
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

## 6.2 Test Graph

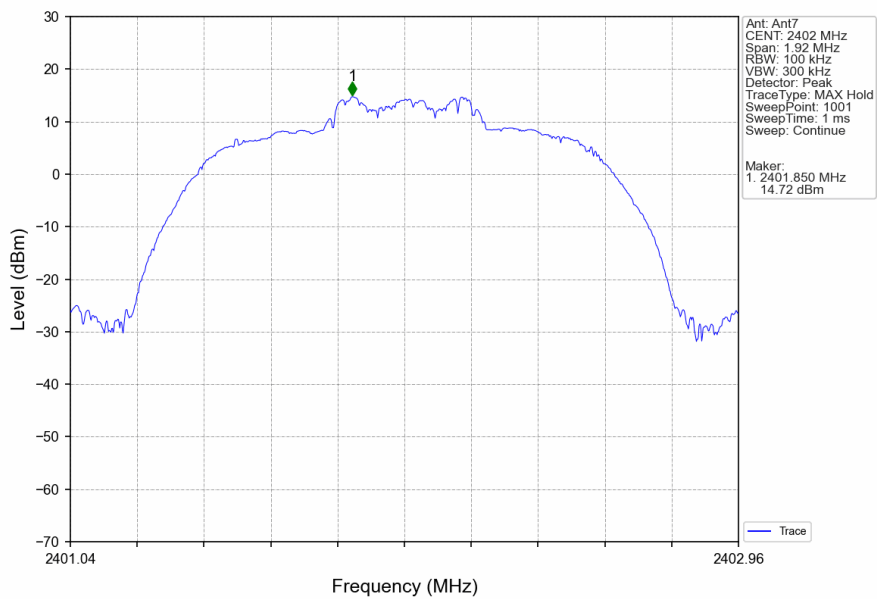
### 6.2.1 Ref



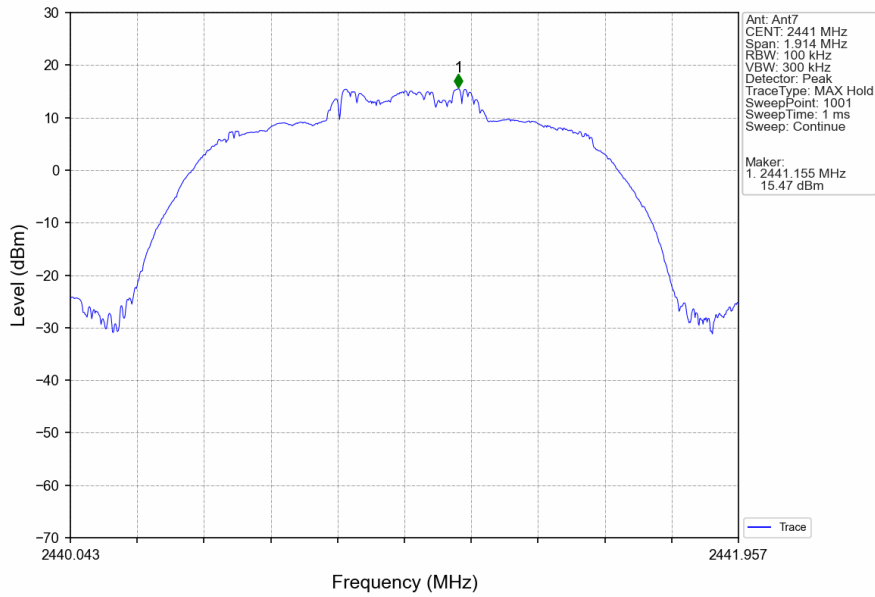
### GFSK\_DH5\_HCH\_2480MHz\_Ant7\_NTNV



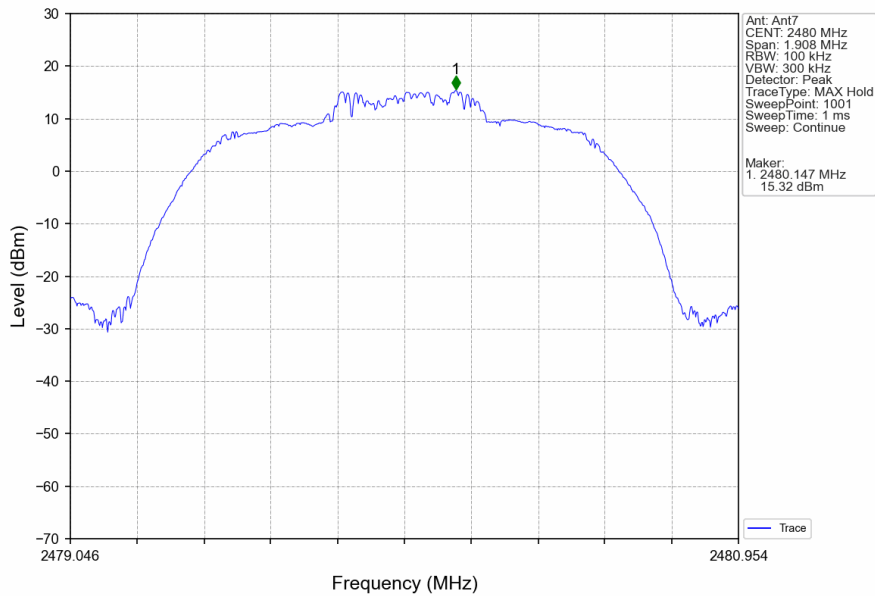
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant7\_NTNV



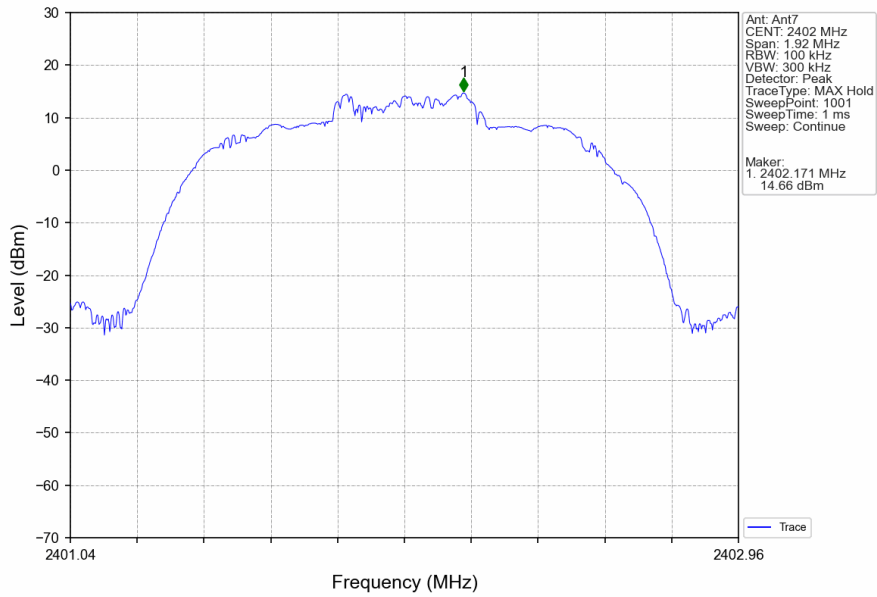
Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant7\_NTNV



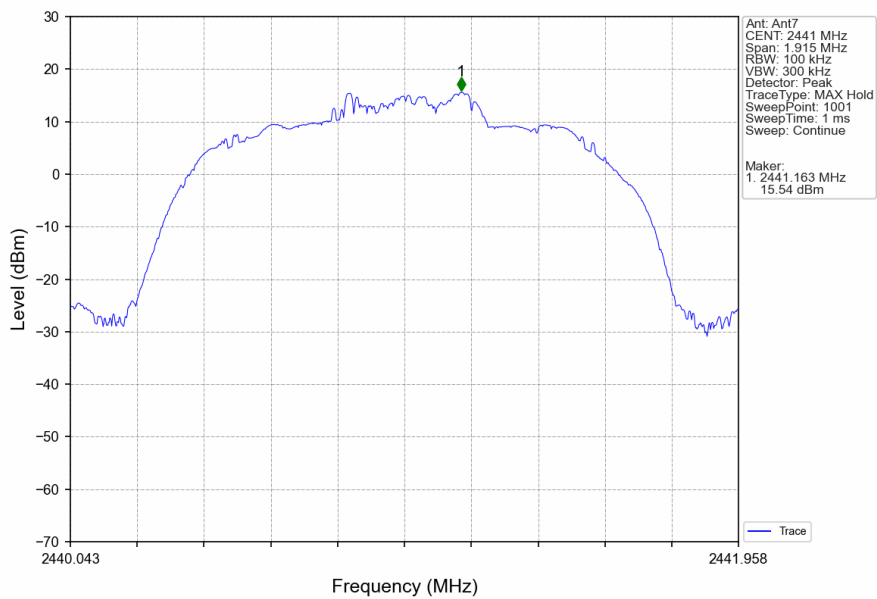
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant7\_NTNV

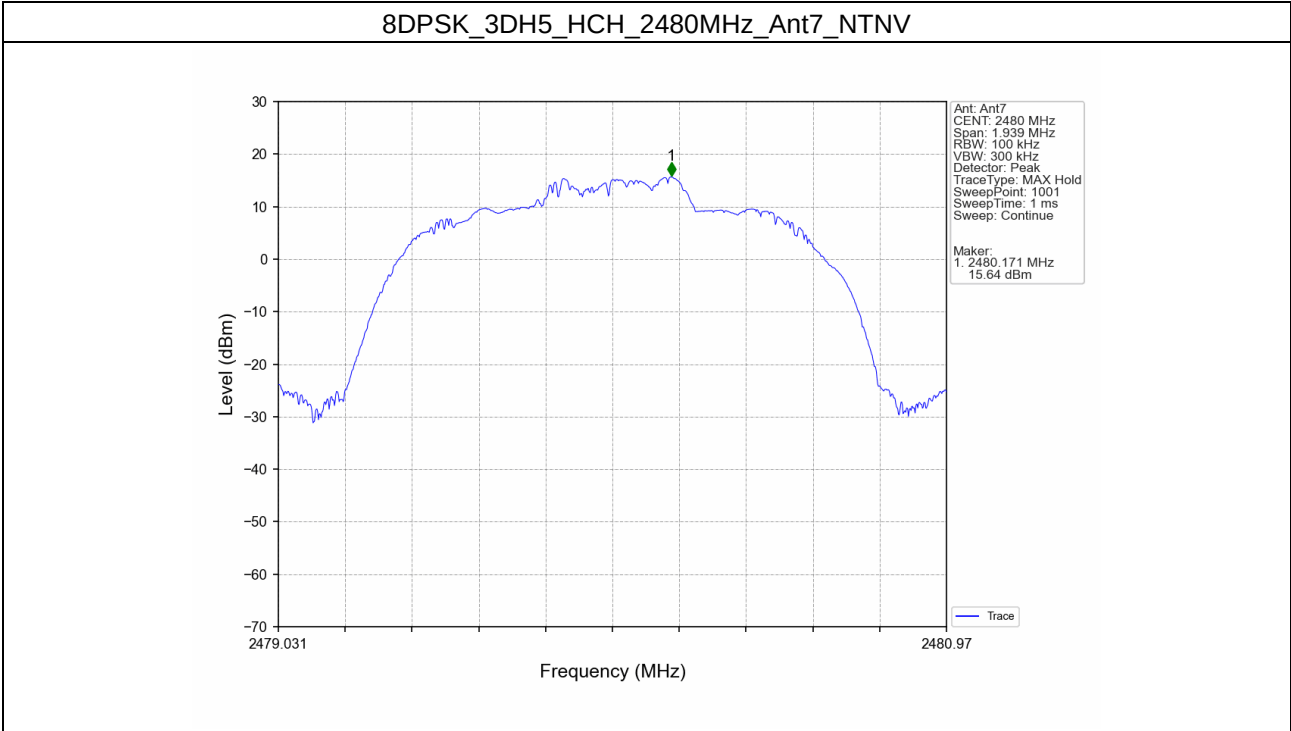


## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant7\_NTNV

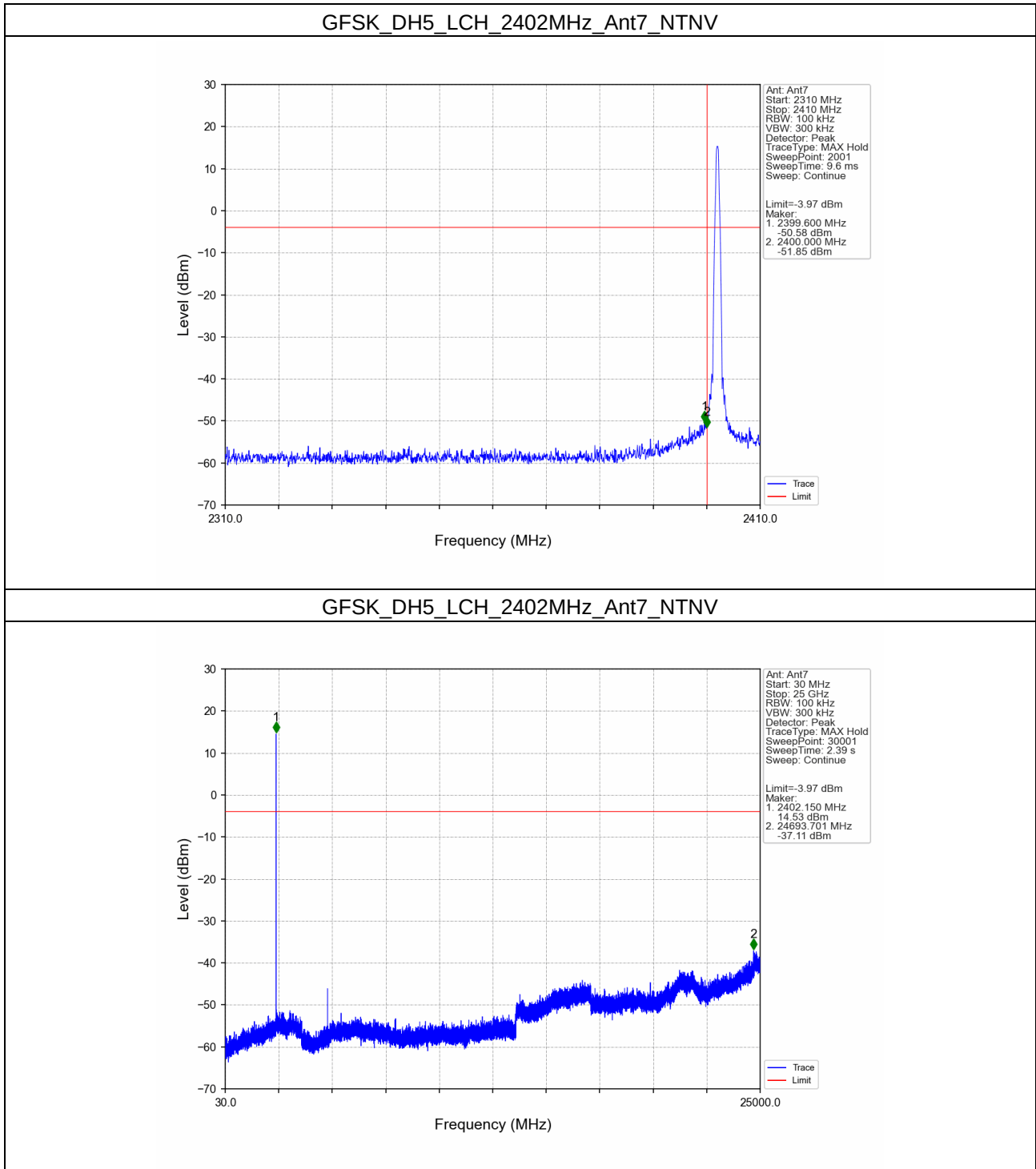


## 8DPSK\_3DH5\_MCH\_2441MHz\_Ant7\_NTNV

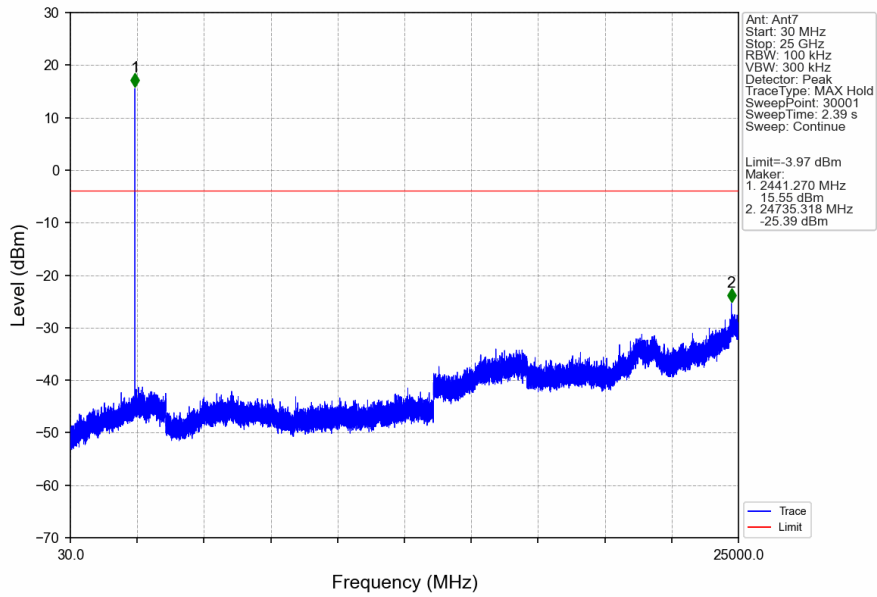




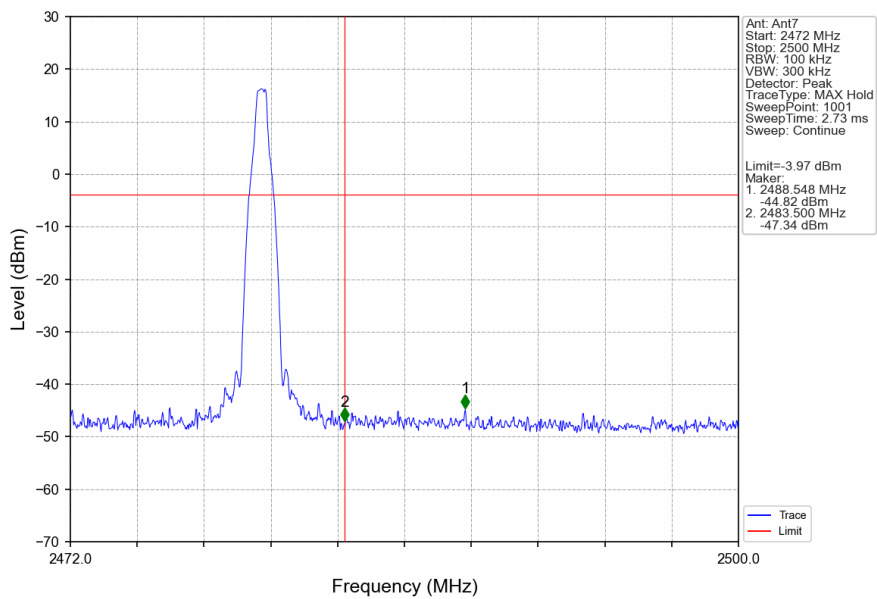
## 6.2.2 CSE



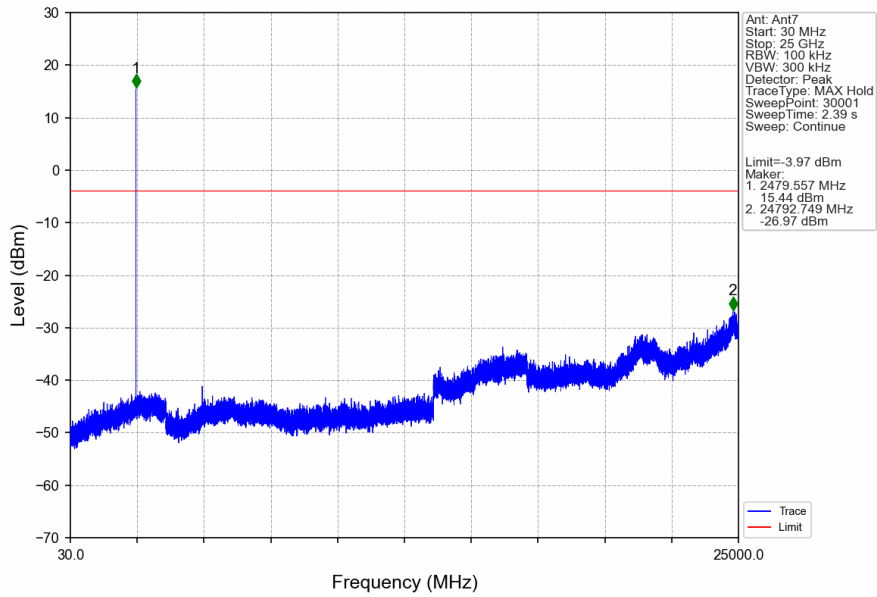
### GFSK\_DH5\_MCH\_2441MHz\_Ant7\_NTNV



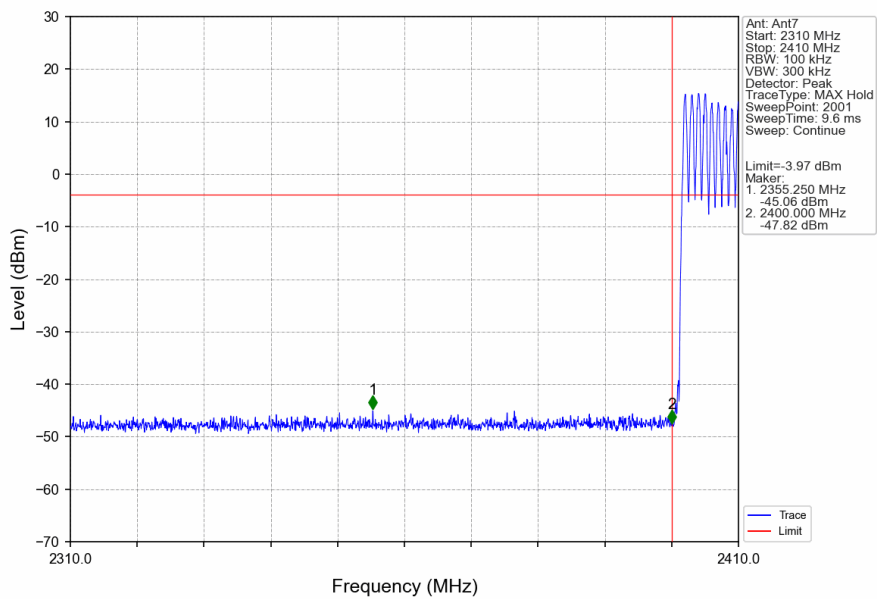
### GFSK\_DH5\_HCH\_2480MHz\_Ant7\_NTNV

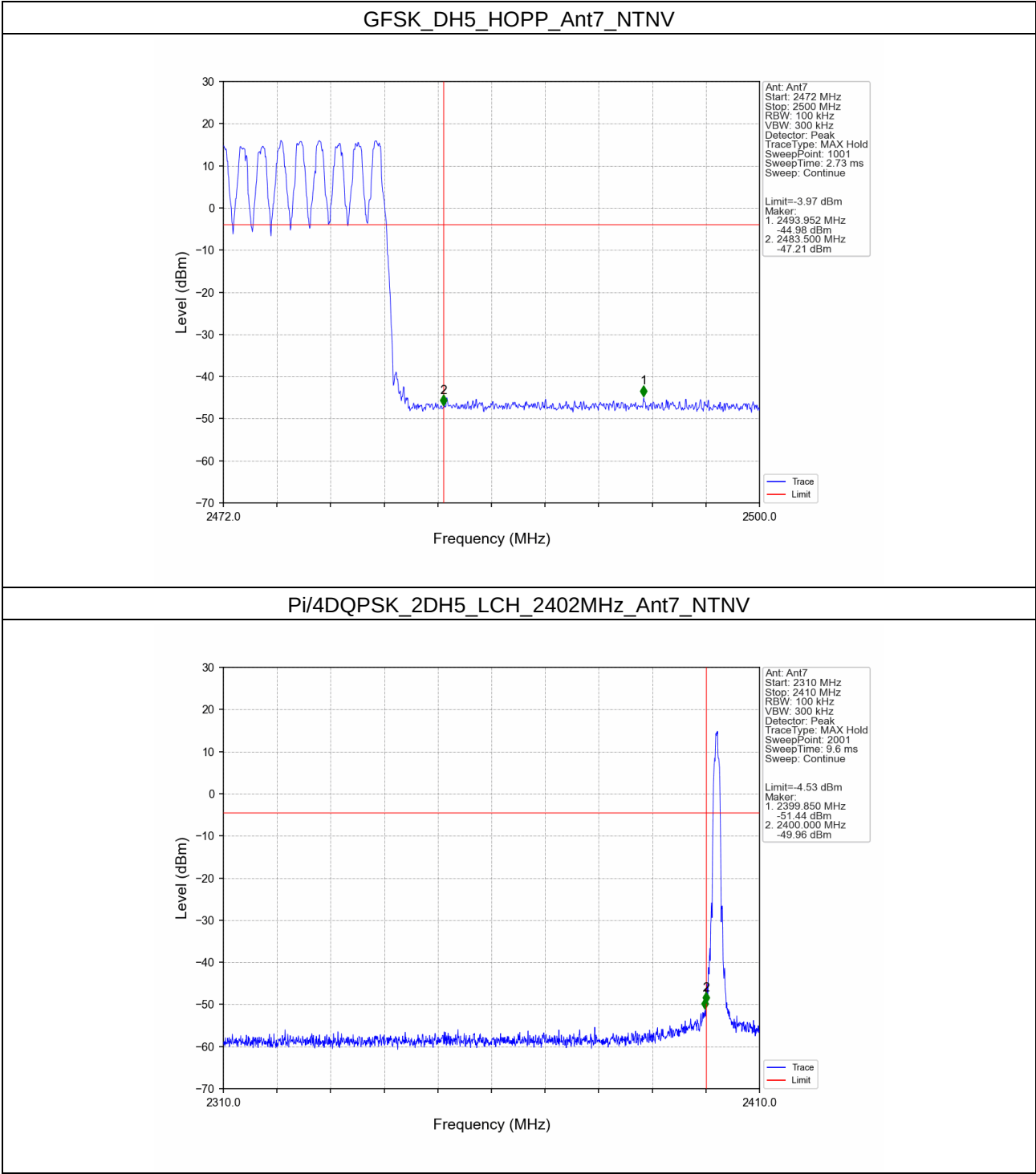


### GFSK\_DH5\_HCH\_2480MHz\_Ant7\_NTNV

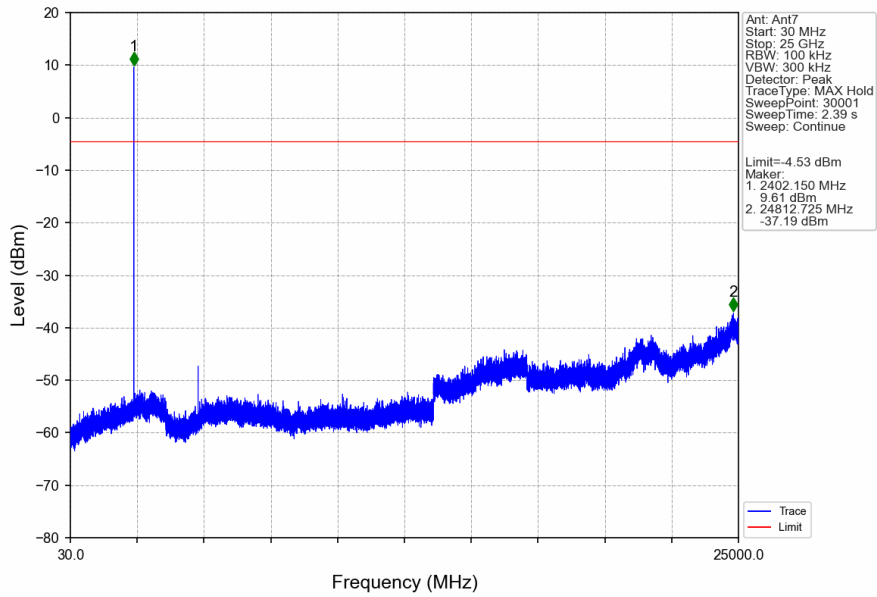


### GFSK\_DH5\_HOPP\_Ant7\_NTNV

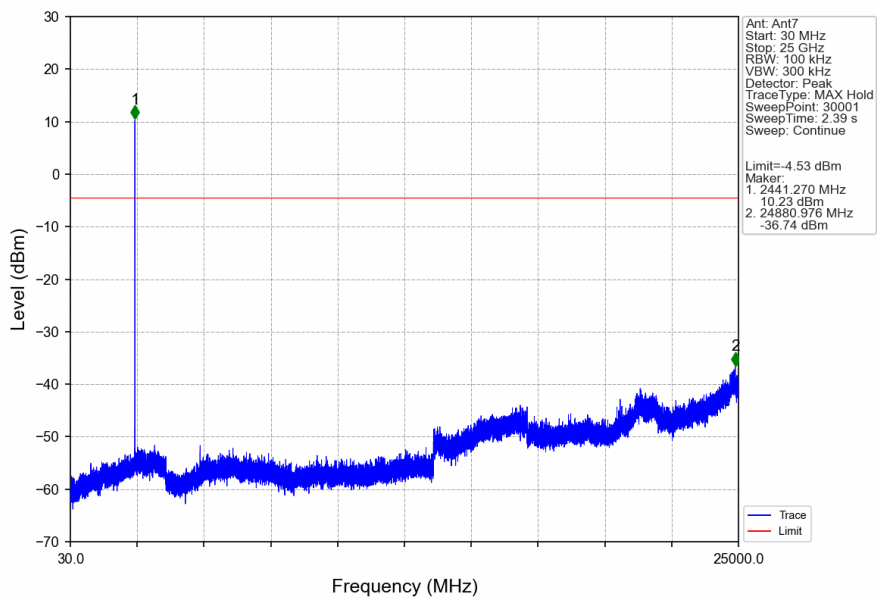




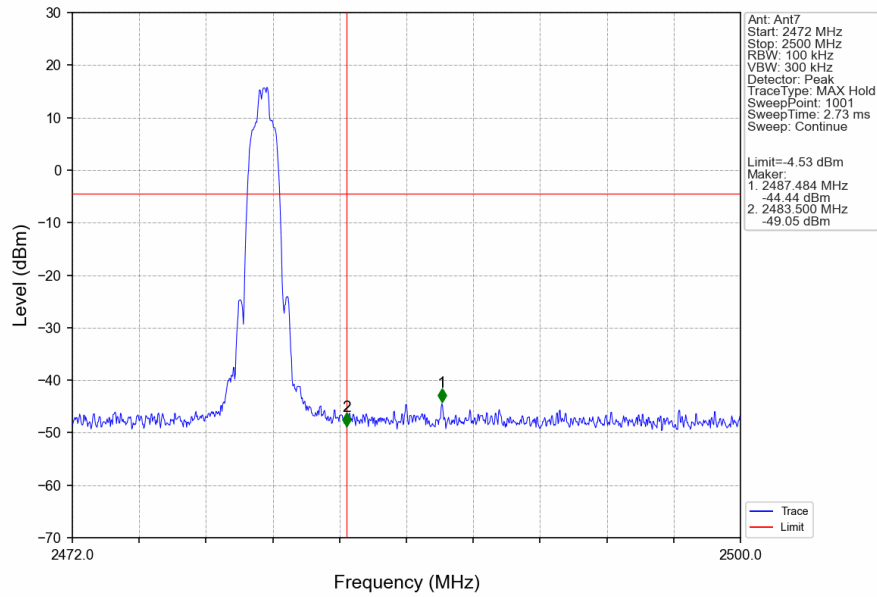
### Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant7\_NTNV



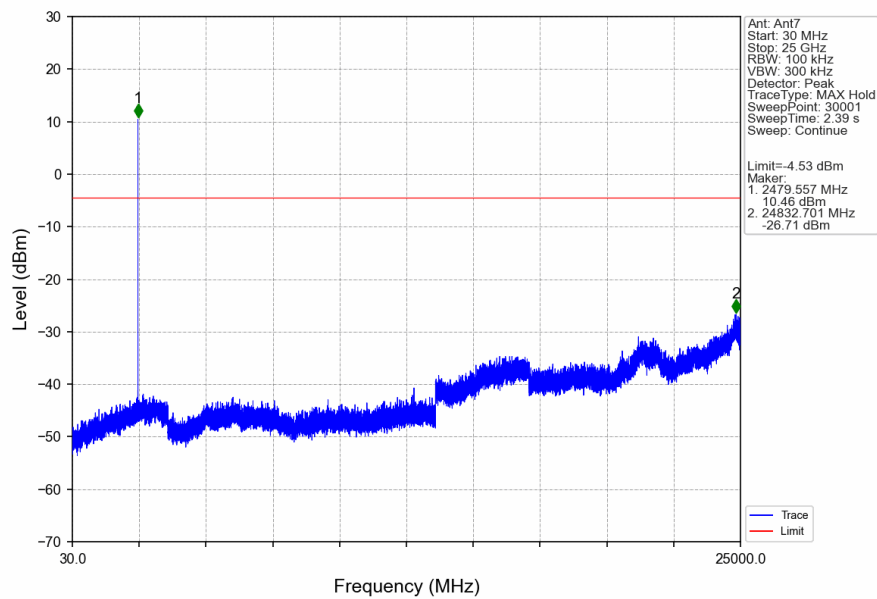
### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant7\_NTNV



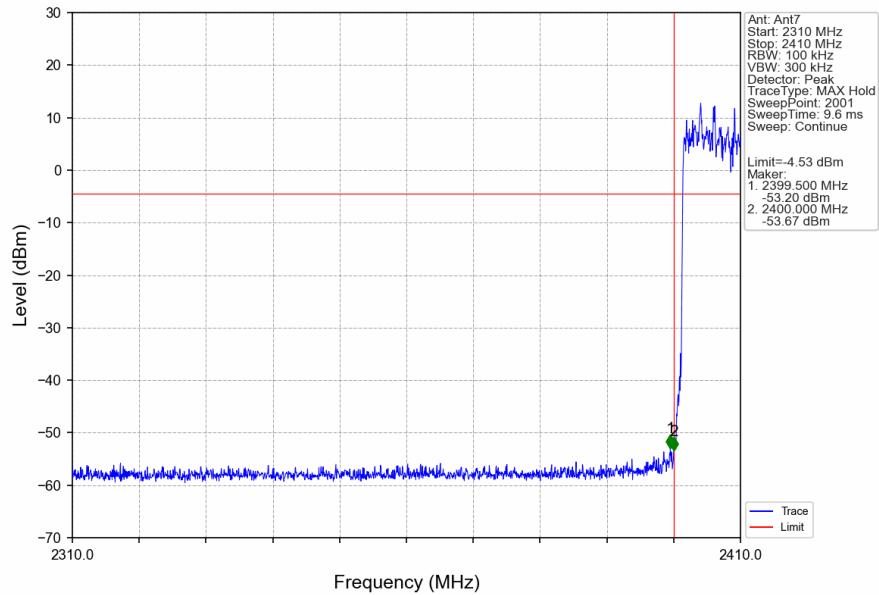
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant7\_NTNV



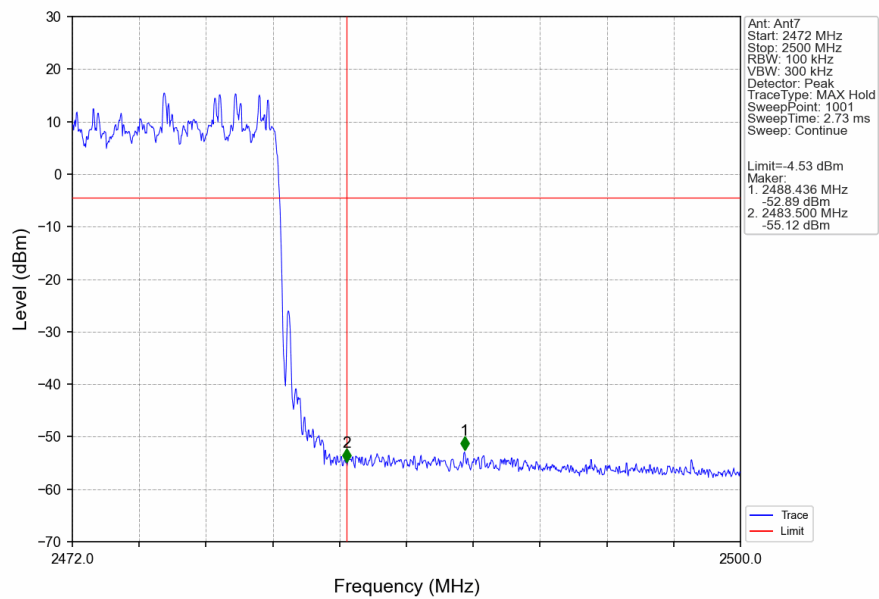
Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant7\_NTNV



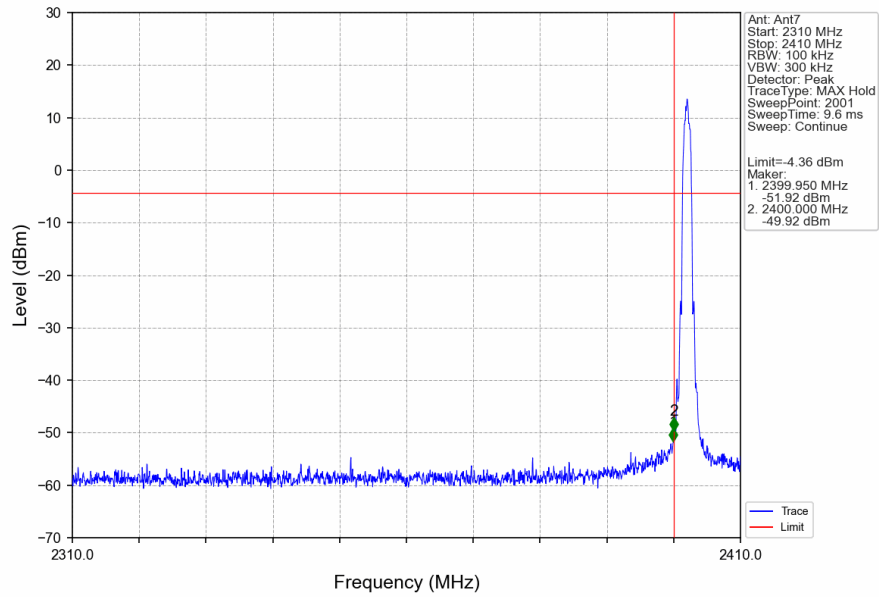
## Pi/4DQPSK\_2DH5\_HOPP\_Ant7\_NTNV



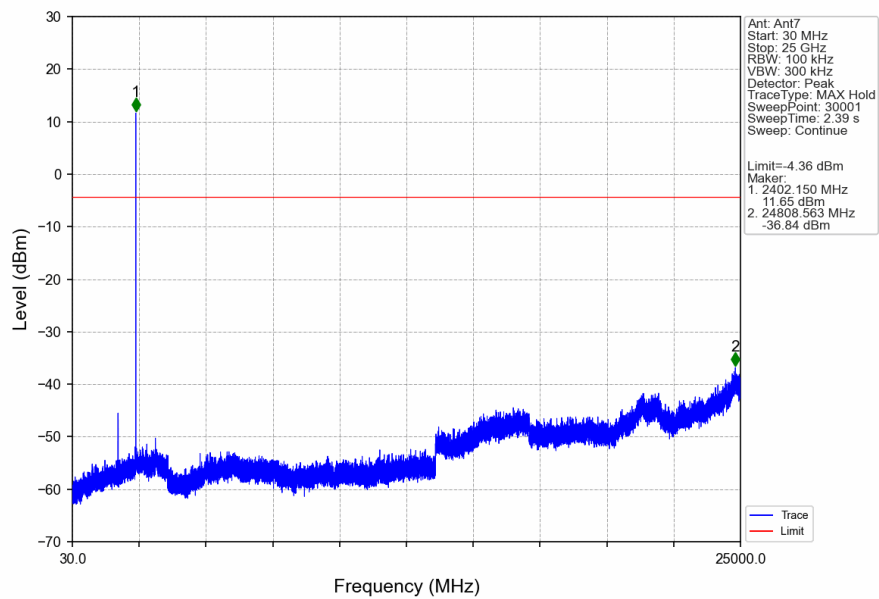
## Pi/4DQPSK\_2DH5\_HOPP\_Ant7\_NTNV



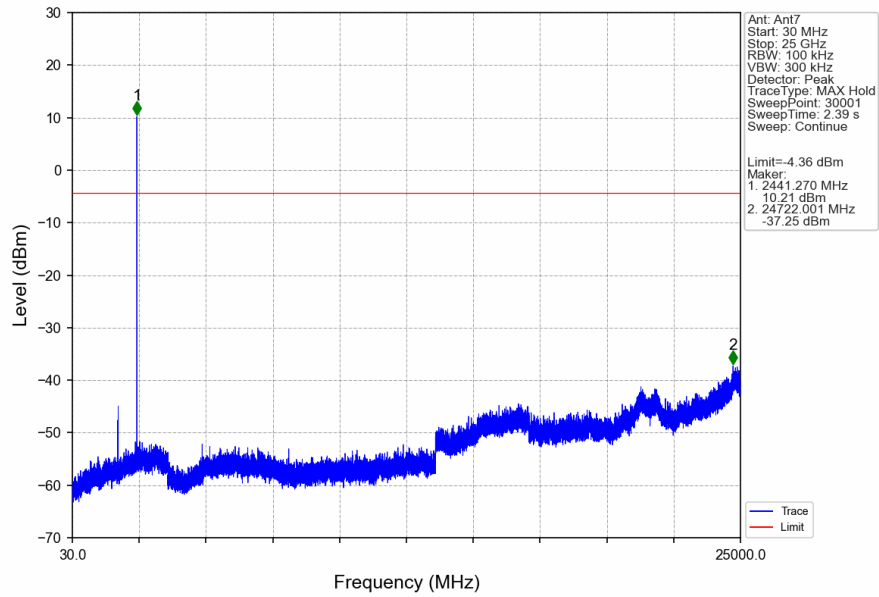
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant7\_NTNV



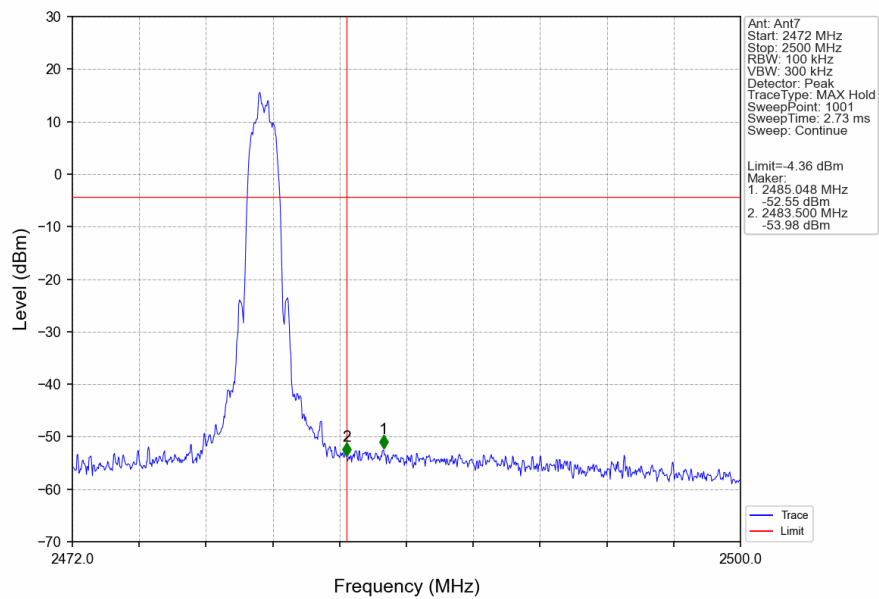
### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant7\_NTNV



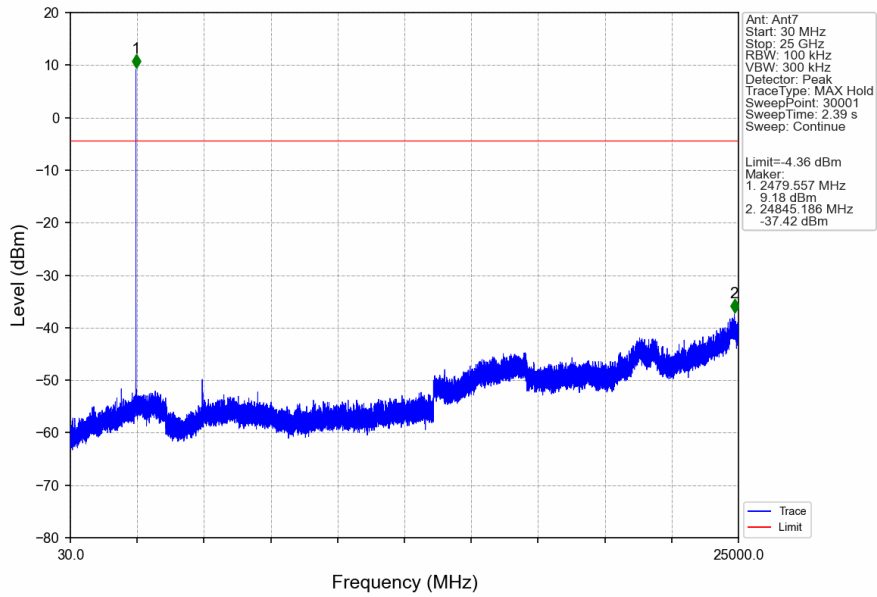
### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant7\_NTNV



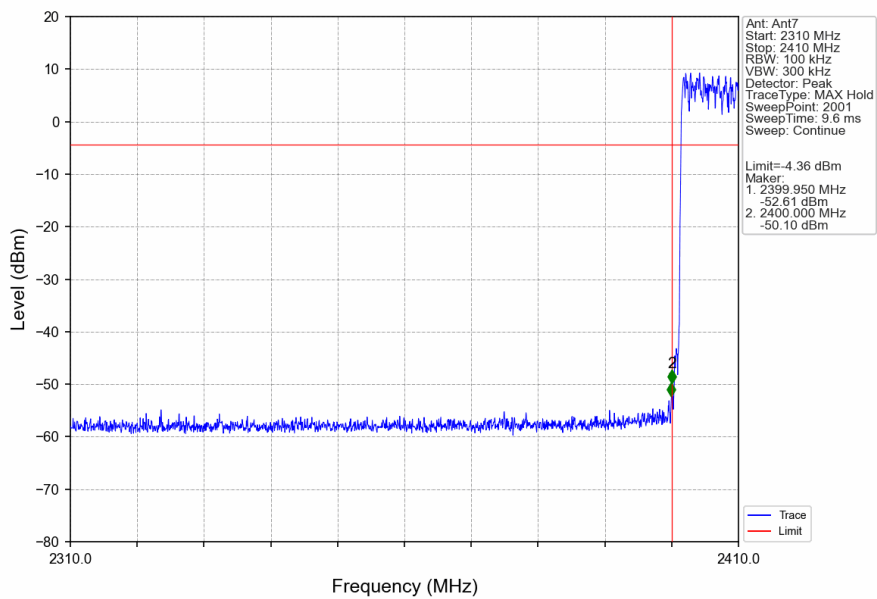
### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant7\_NTNV

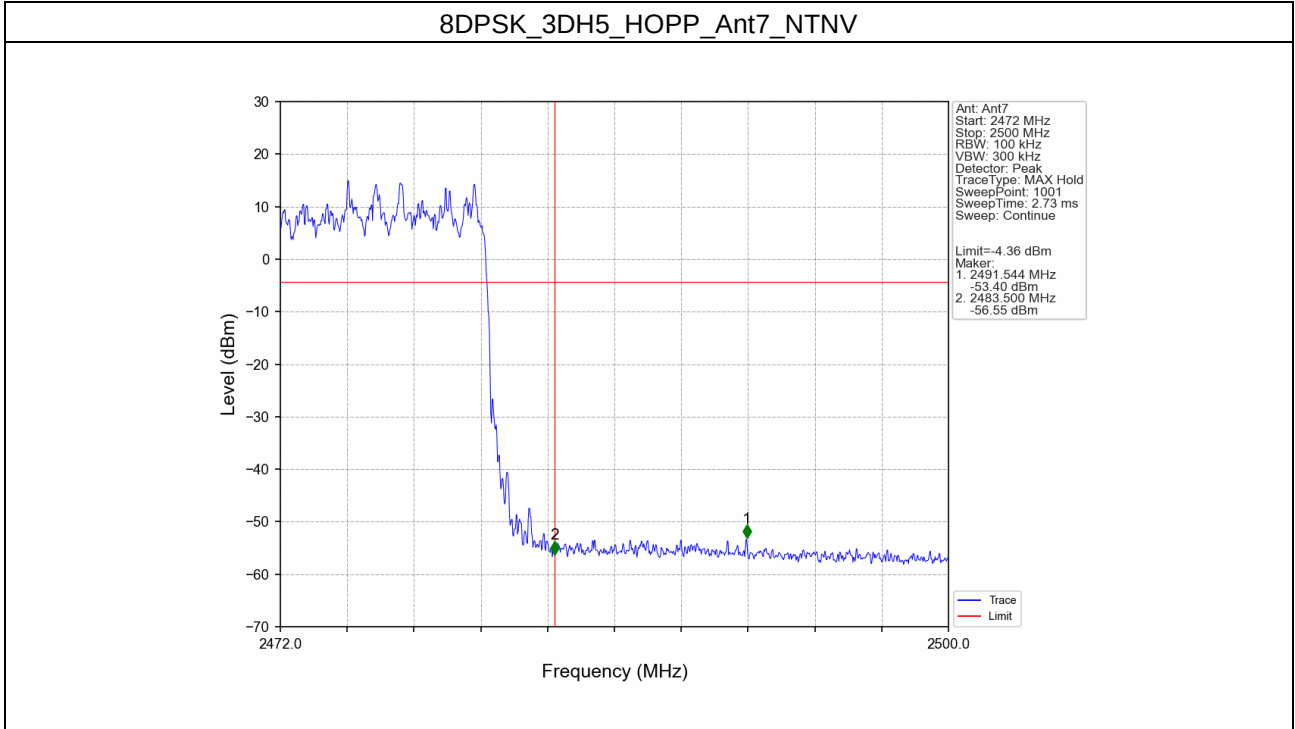


### 8DPSK\_3DH5\_HCH\_2480MHz\_Ant7\_NTNV



### 8DPSK\_3DH5\_HOPP\_Ant7\_NTNV







## 1. Duty Cycle

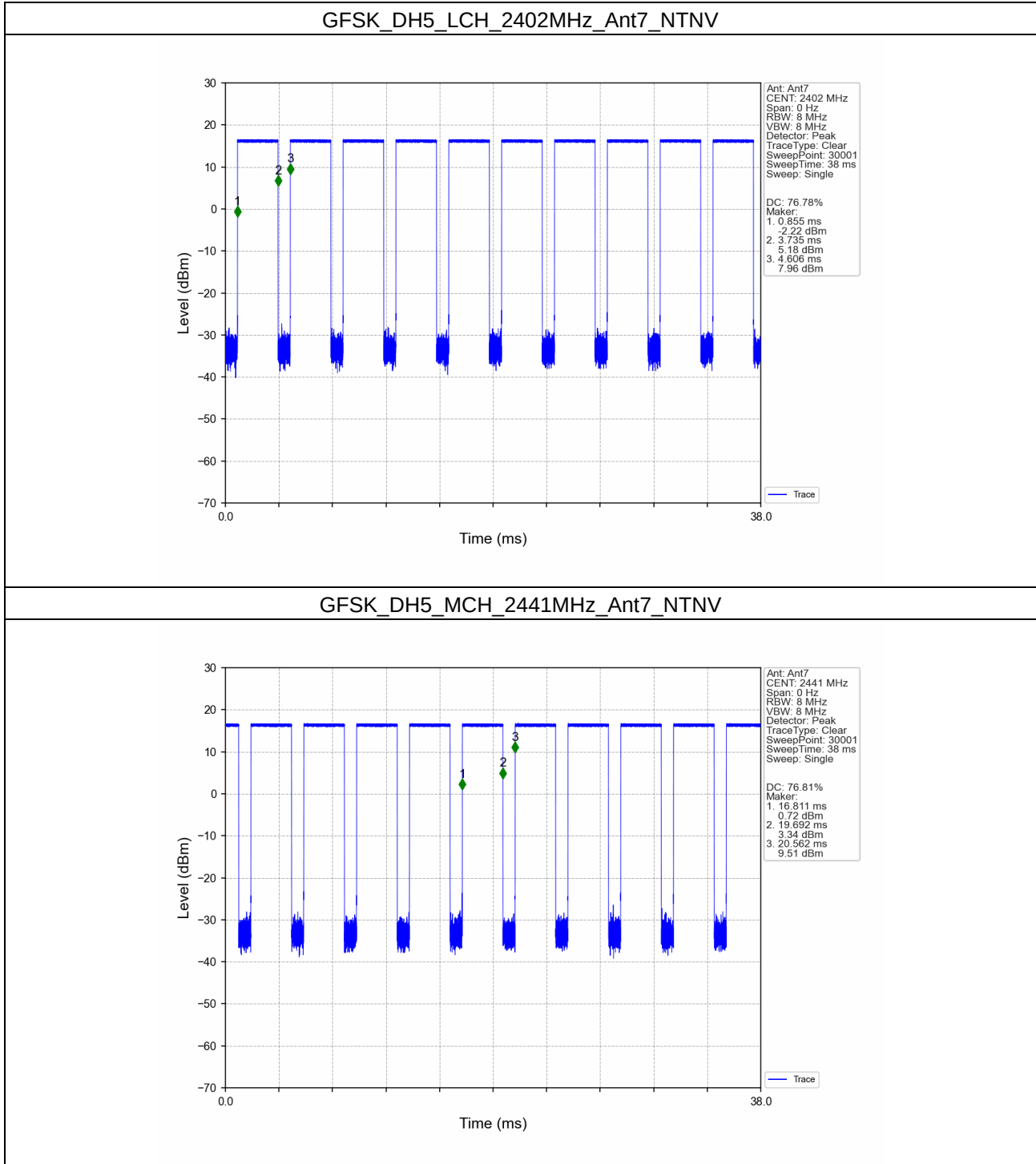
### 1.1 Test Result

#### 1.1.1 Ant7

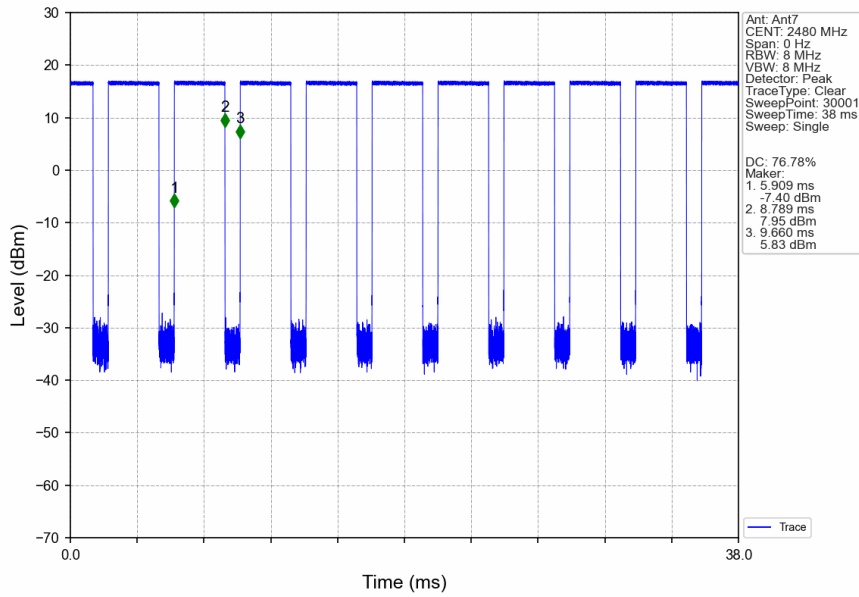
| Ant7      |         |                 |             |           |             |                |                                   |                       |
|-----------|---------|-----------------|-------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| GFSK      | SISO    | 2402            | DH5         | 2.880     | 3.751       | 76.78          | 1.15                              | 0.03                  |
|           |         | 2441            | DH5         | 2.881     | 3.751       | 76.81          | 1.15                              | 0.03                  |
|           |         | 2480            | DH5         | 2.880     | 3.751       | 76.78          | 1.15                              | 0.03                  |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 2.898     | 3.749       | 77.30          | 1.12                              | 0.01                  |
|           |         | 2441            | 2DH5        | 2.898     | 3.750       | 77.28          | 1.12                              | 0.03                  |
|           |         | 2480            | 2DH5        | 2.897     | 3.750       | 77.25          | 1.12                              | 0.07                  |
| 8DPSK     | SISO    | 2402            | 3DH5        | 2.901     | 3.751       | 77.34          | 1.12                              | 0.03                  |
|           |         | 2441            | 3DH5        | 2.900     | 3.750       | 77.33          | 1.12                              | 0.01                  |
|           |         | 2480            | 3DH5        | 2.899     | 3.750       | 77.31          | 1.12                              | 0.06                  |

## 1.2 Test Graph

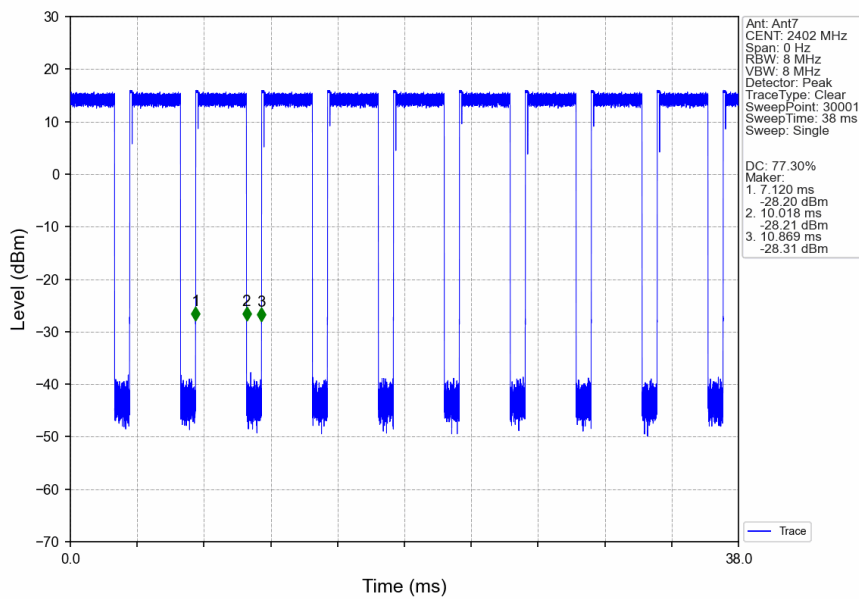
### 1.2.1 Ant7



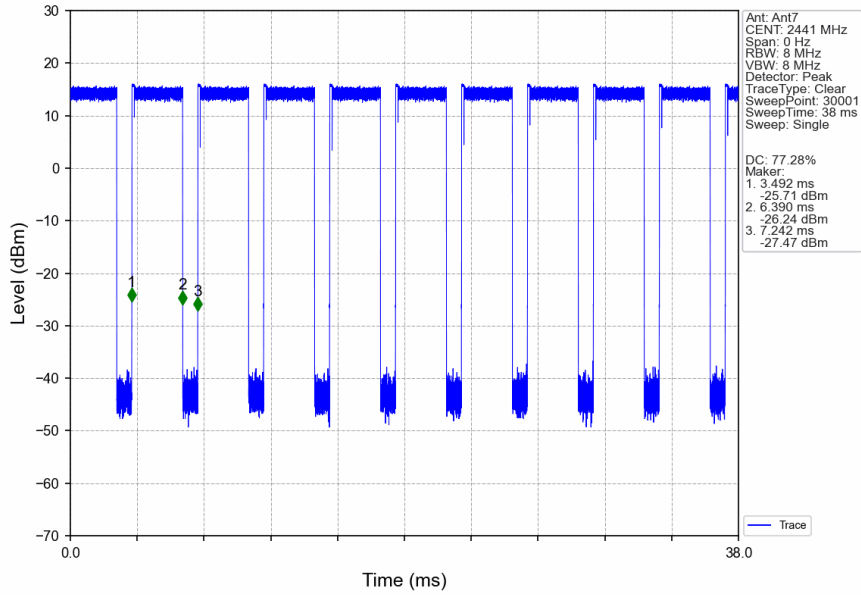
## GFSK\_DH5\_HCH\_2480MHz\_Ant7\_NTNV



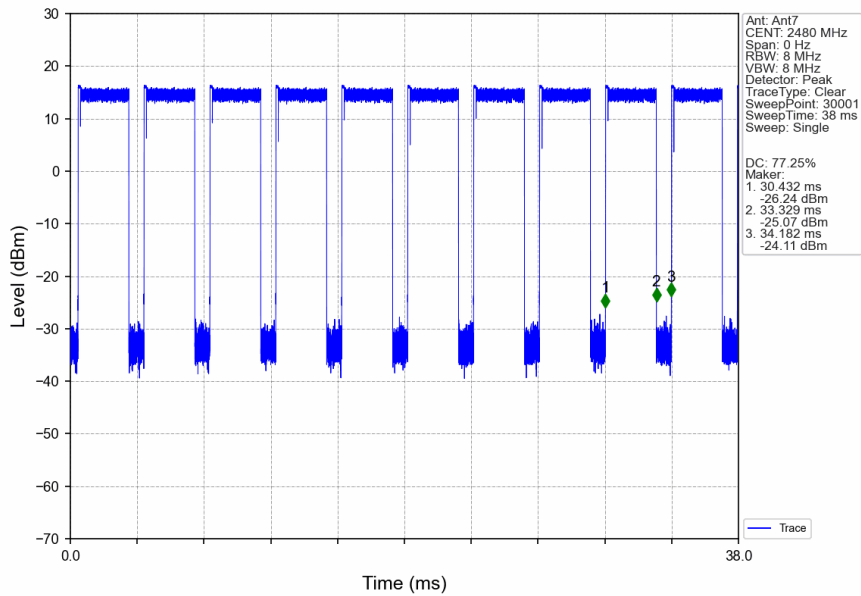
## Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant7\_NTNV



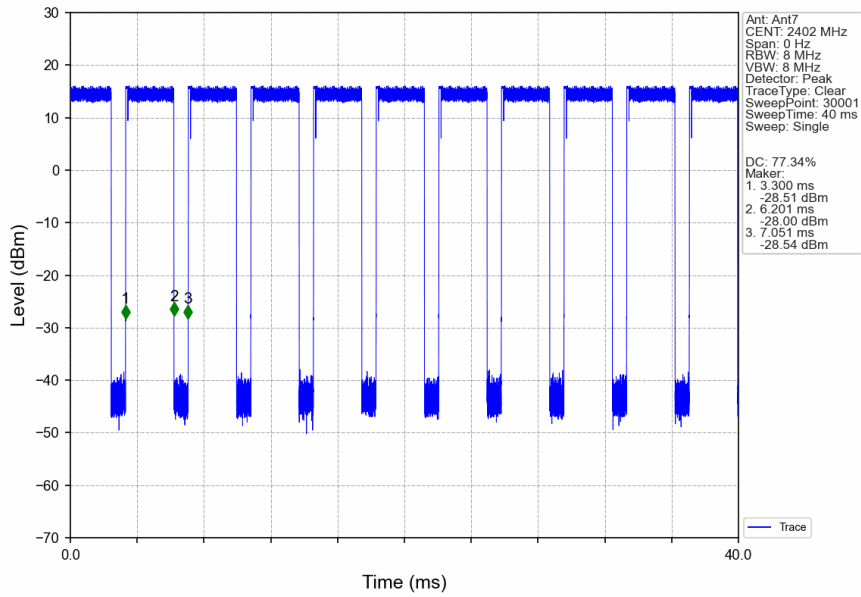
### Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant7\_NTNV



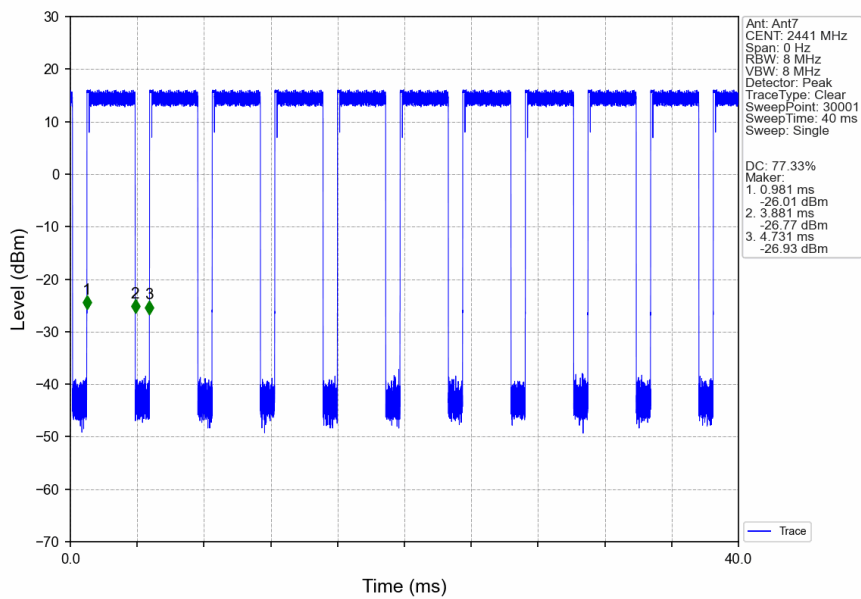
### Pi/4DQPSK\_2DH5\_HCH\_2480MHz\_Ant7\_NTNV

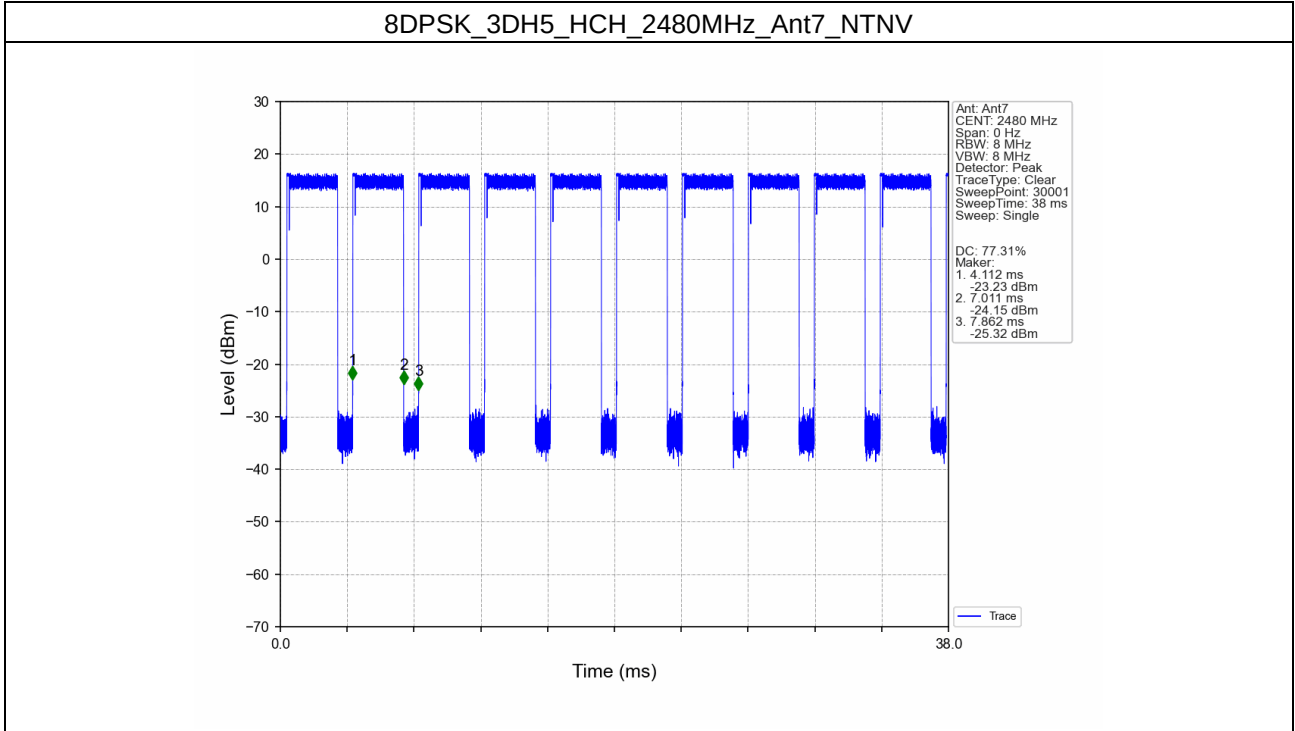


### 8DPSK\_3DH5\_LCH\_2402MHz\_Ant7\_NTNV



### 8DPSK\_3DH5\_MCH\_2441MHz\_Ant7\_NTNV





- End of the Report -