

## 1. Bandwidth

### 1.1 OBW

#### 1.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|------------------------------|---------|
|           |         |                 |             |     | Result                       |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.891                        | Pass    |
|           |         | 2441            | DH5         | 1   | 0.889                        | Pass    |
|           |         | 2480            | DH5         | 1   | 0.888                        | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.208                        | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.212                        | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.214                        | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.201                        | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.203                        | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.204                        | Pass    |

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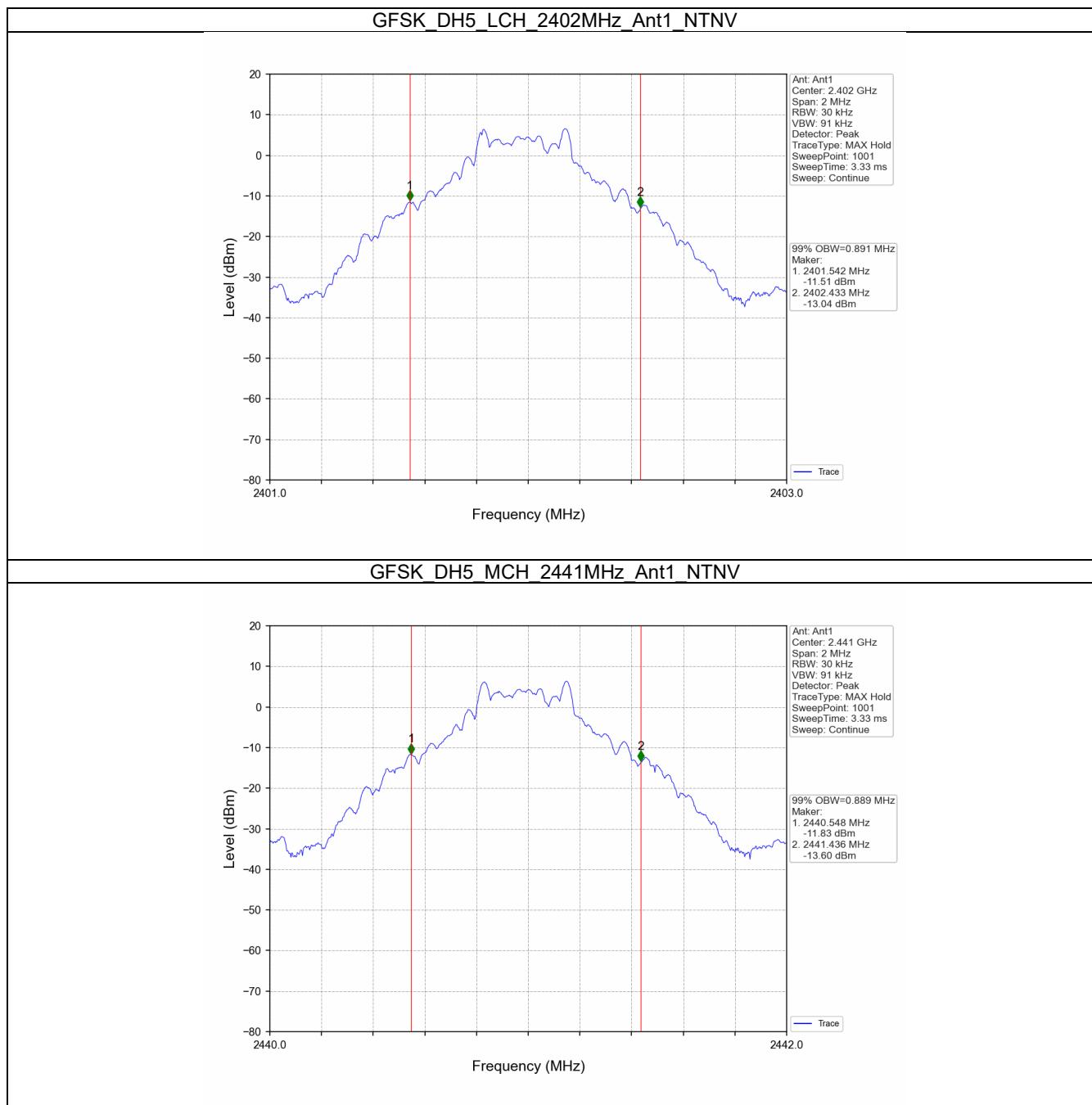


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## 1.1.2 Test Graph



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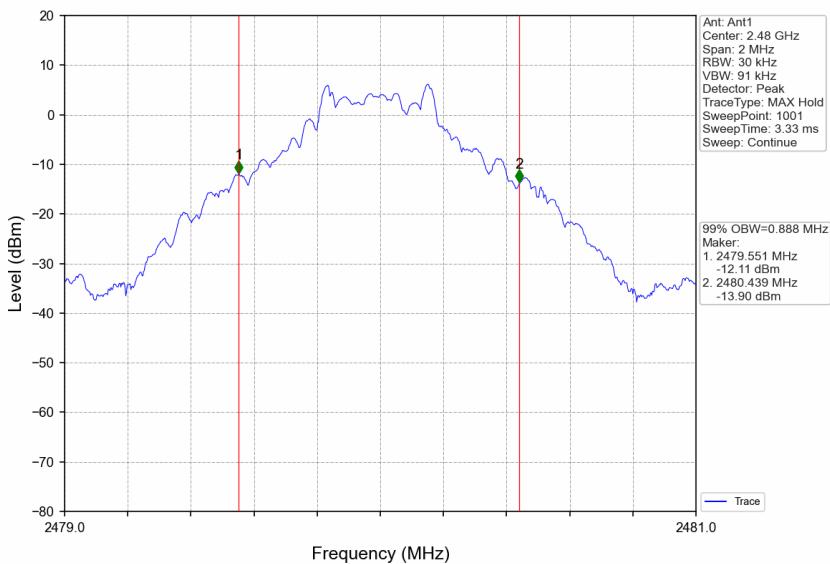


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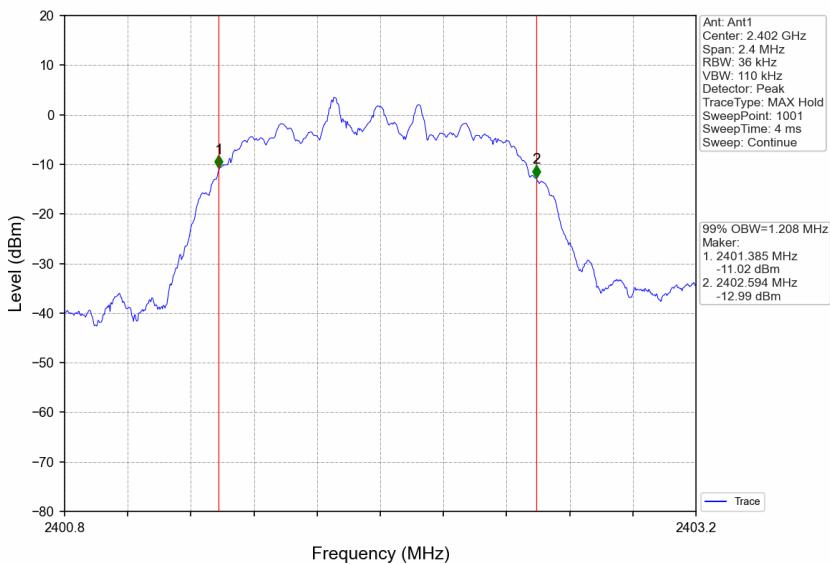
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## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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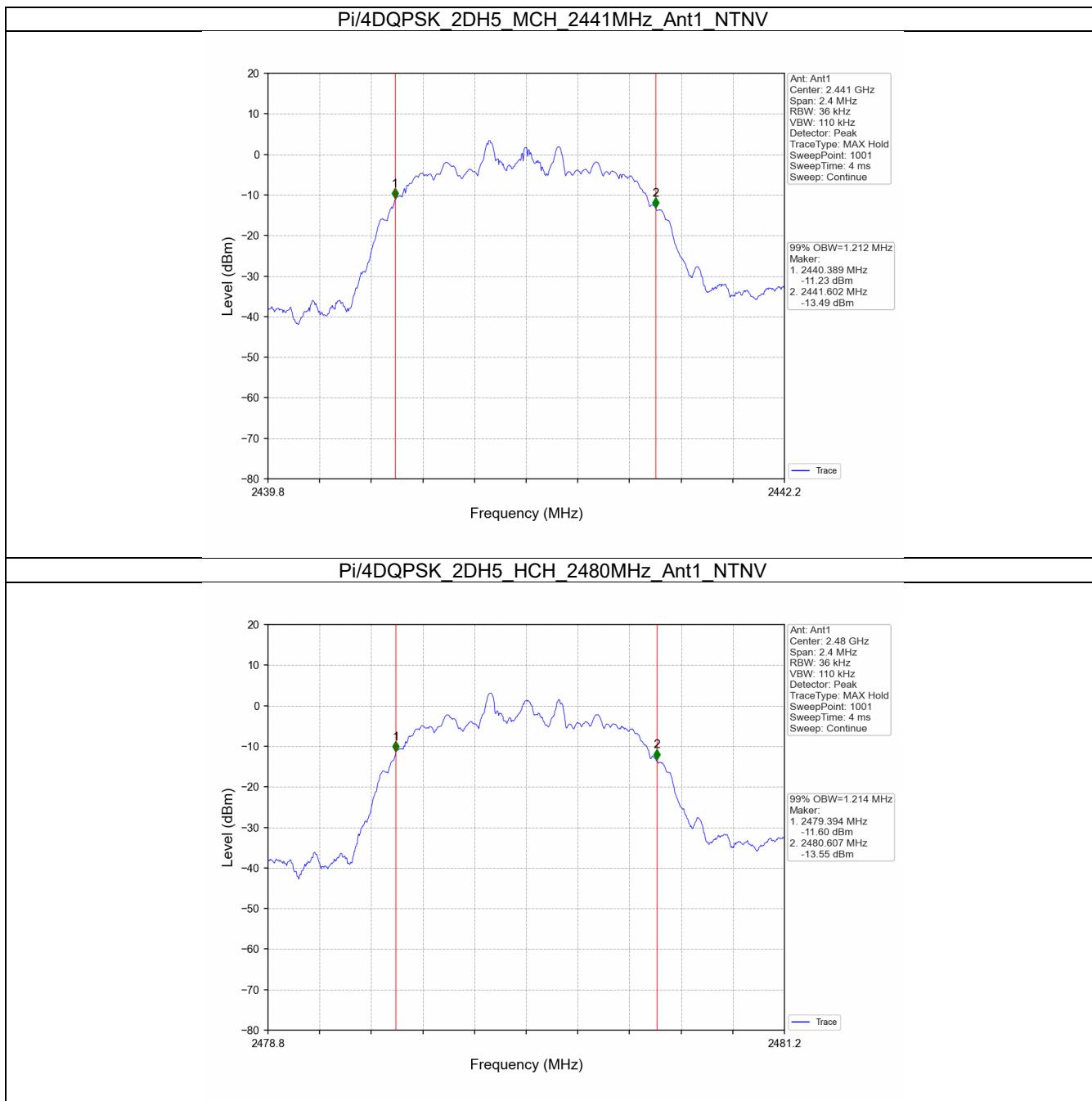
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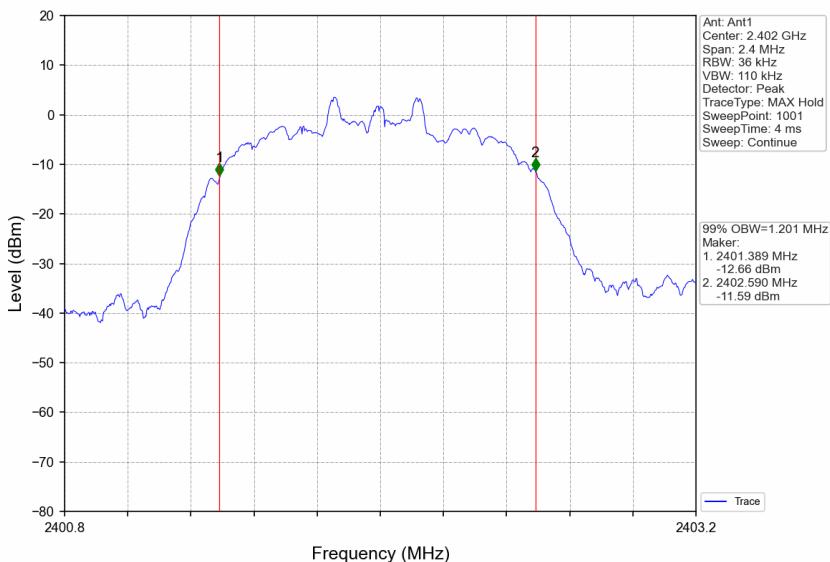


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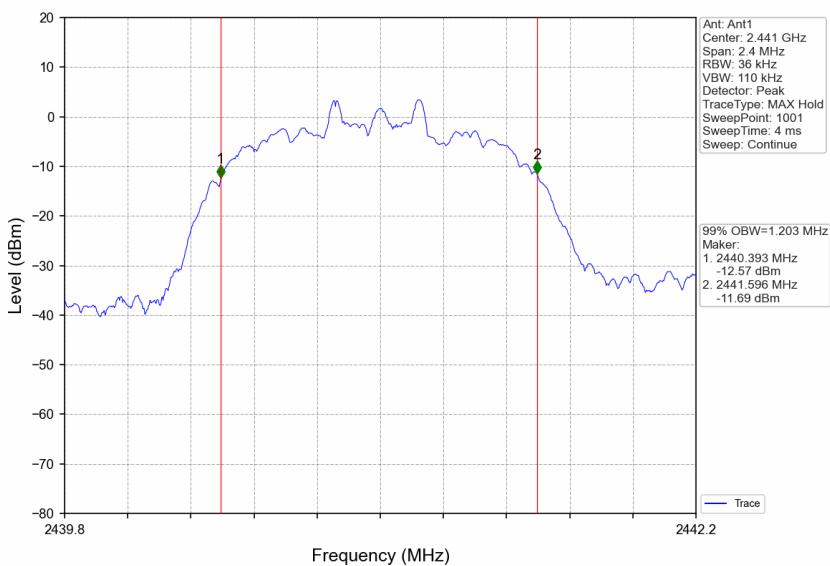
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## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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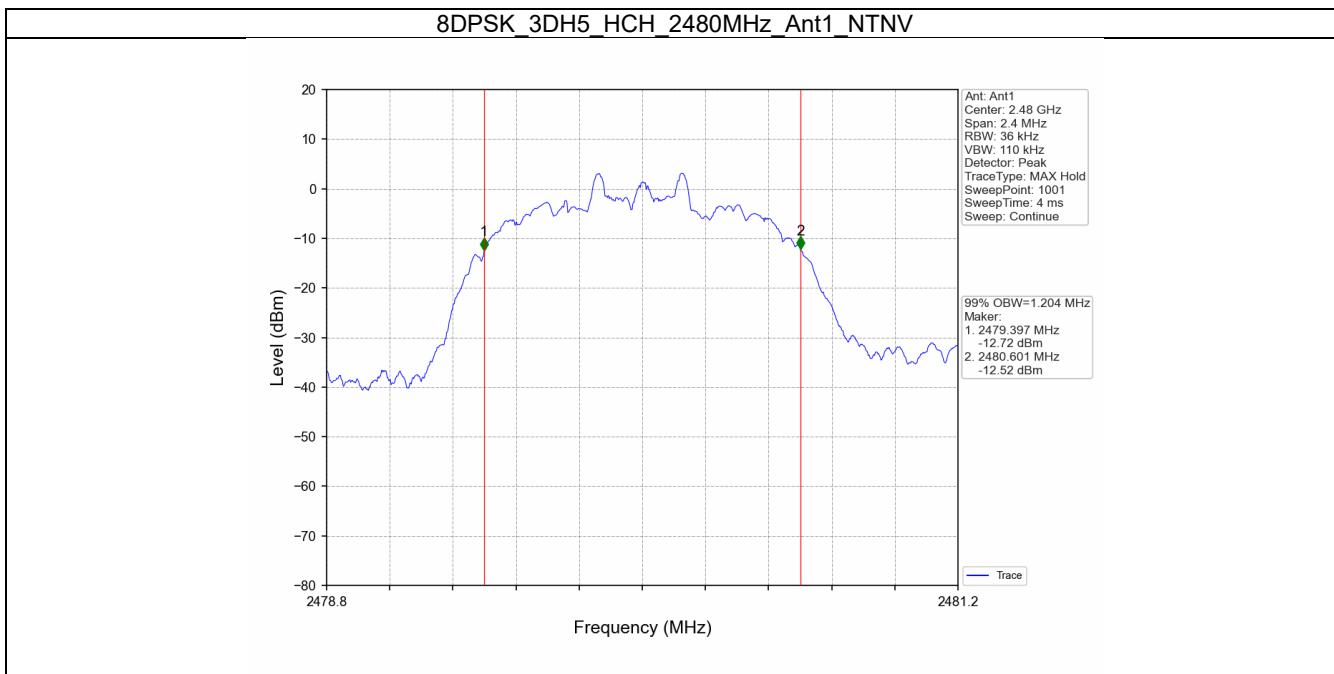
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## 1.2 20dB BW

## 1.2.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Ant | 20dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|---------|
|           |         |                 |             |     | Result               |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 0.943                | Pass    |
|           |         | 2441            | DH5         | 1   | 0.944                | Pass    |
|           |         | 2480            | DH5         | 1   | 0.944                | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.341                | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.348                | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.346                | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.312                | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.312                | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.312                | Pass    |

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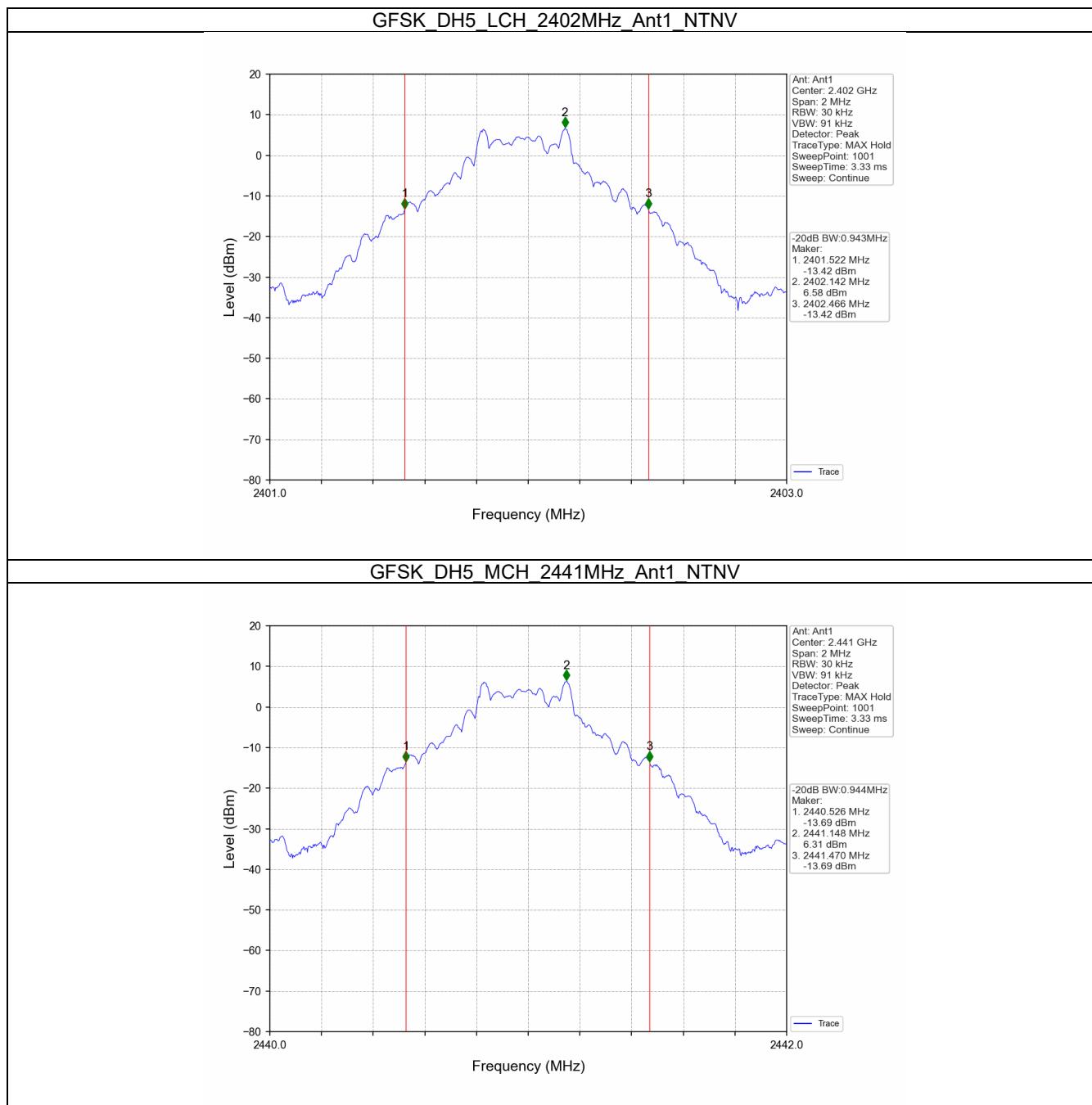
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## 1.2.2 Test Graph



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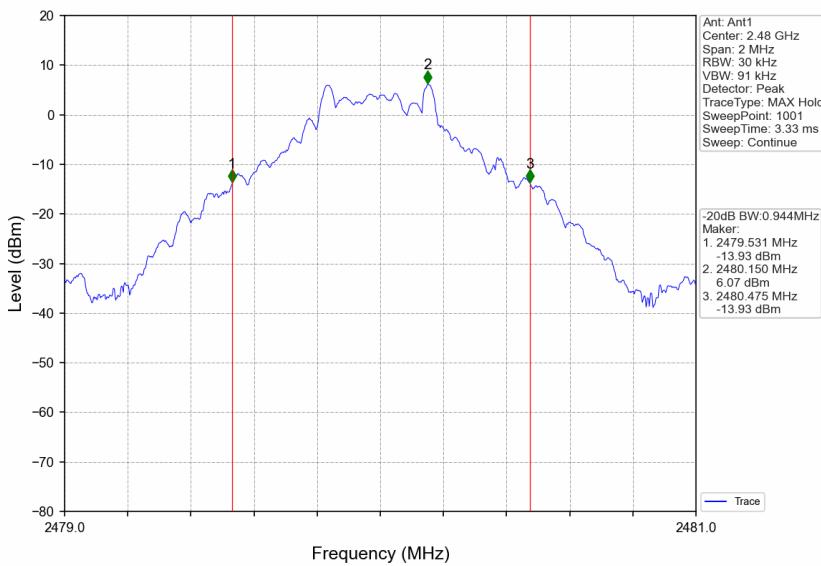


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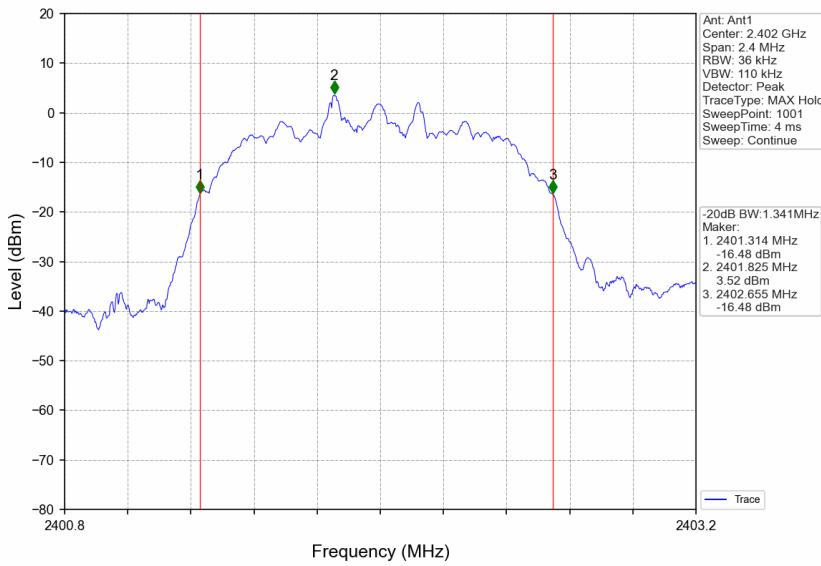
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## Pi/4DQPSK\_2DH5\_LCH\_2402MHz\_Ant1\_NTNV



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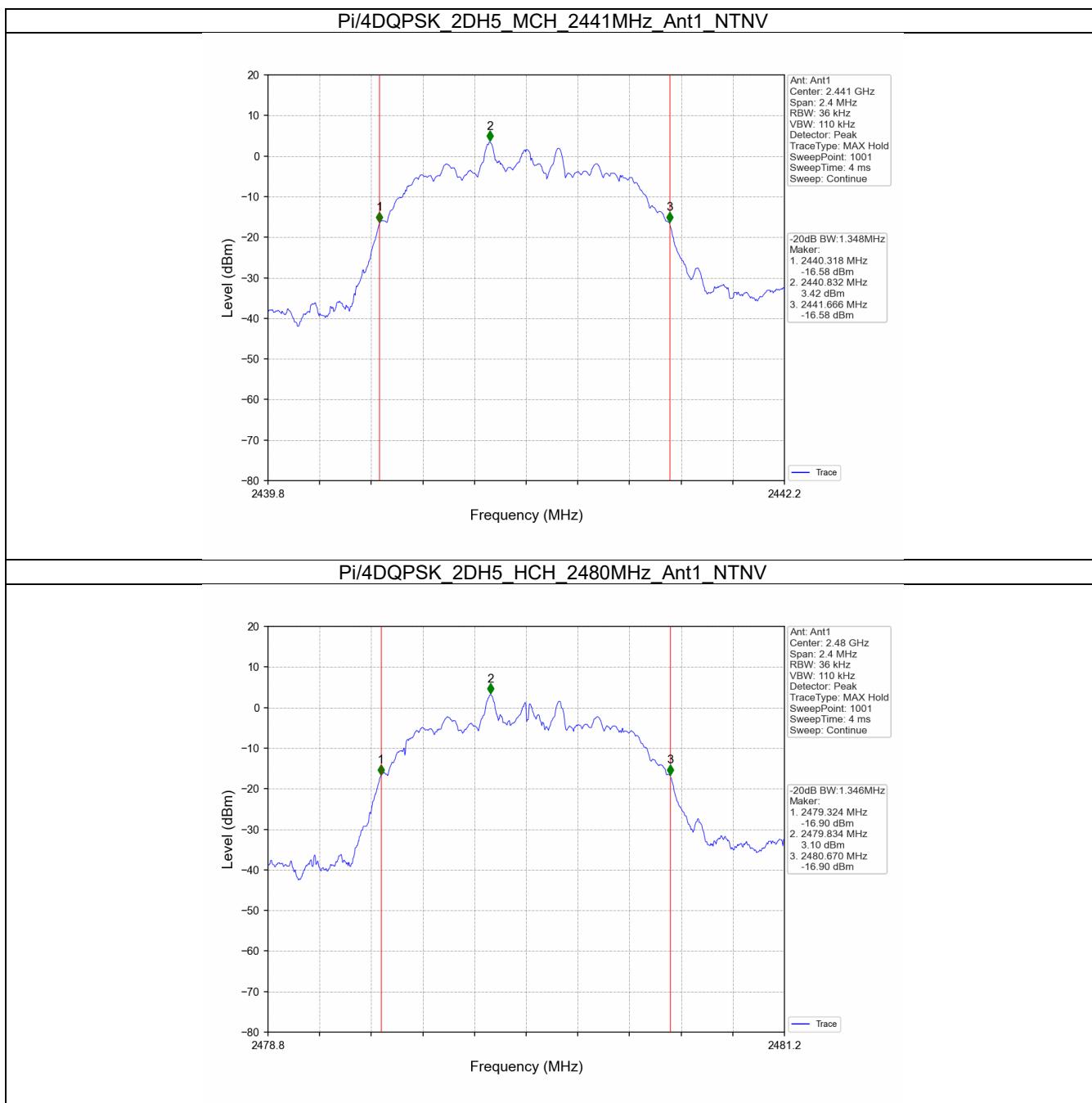
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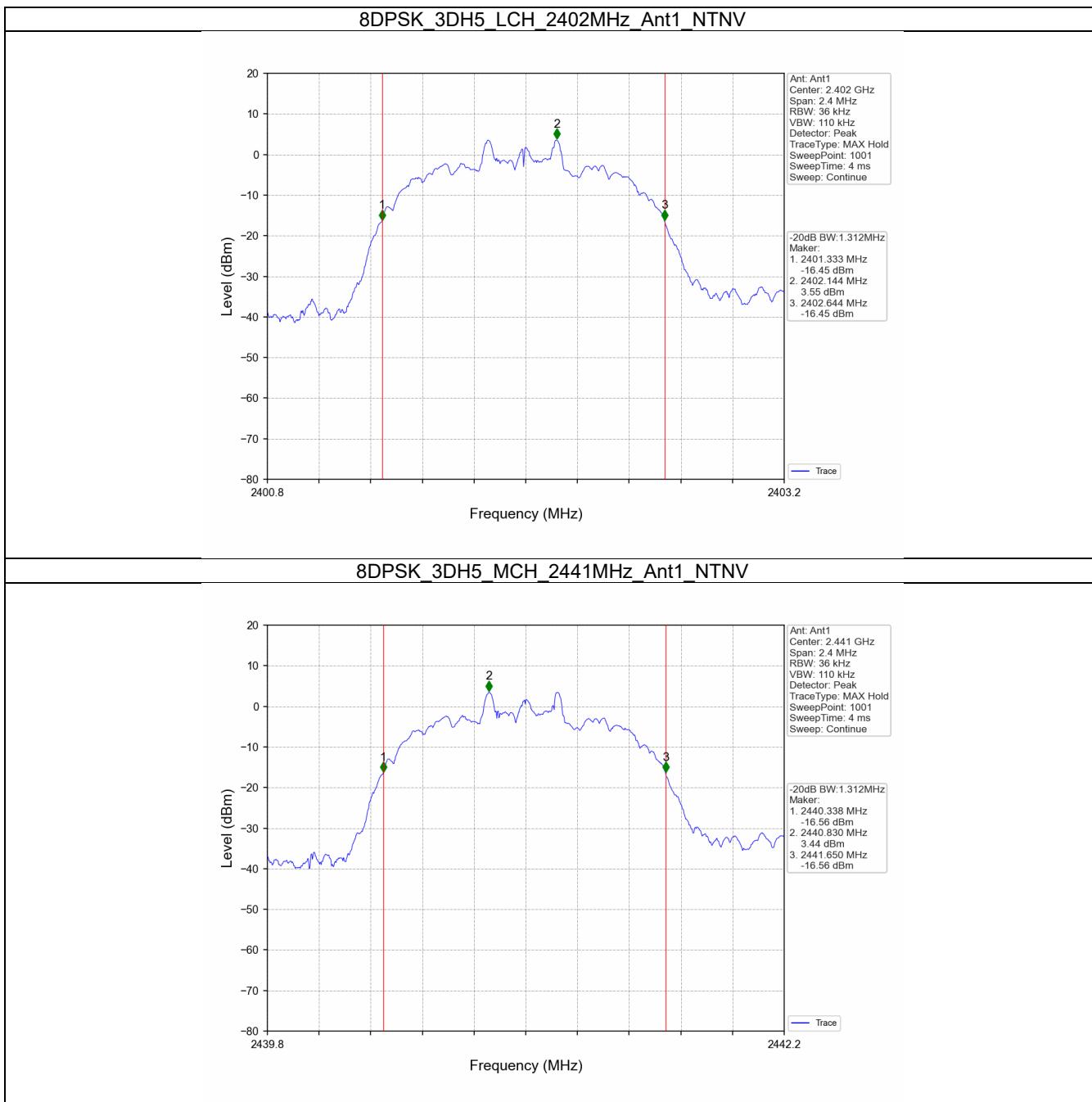
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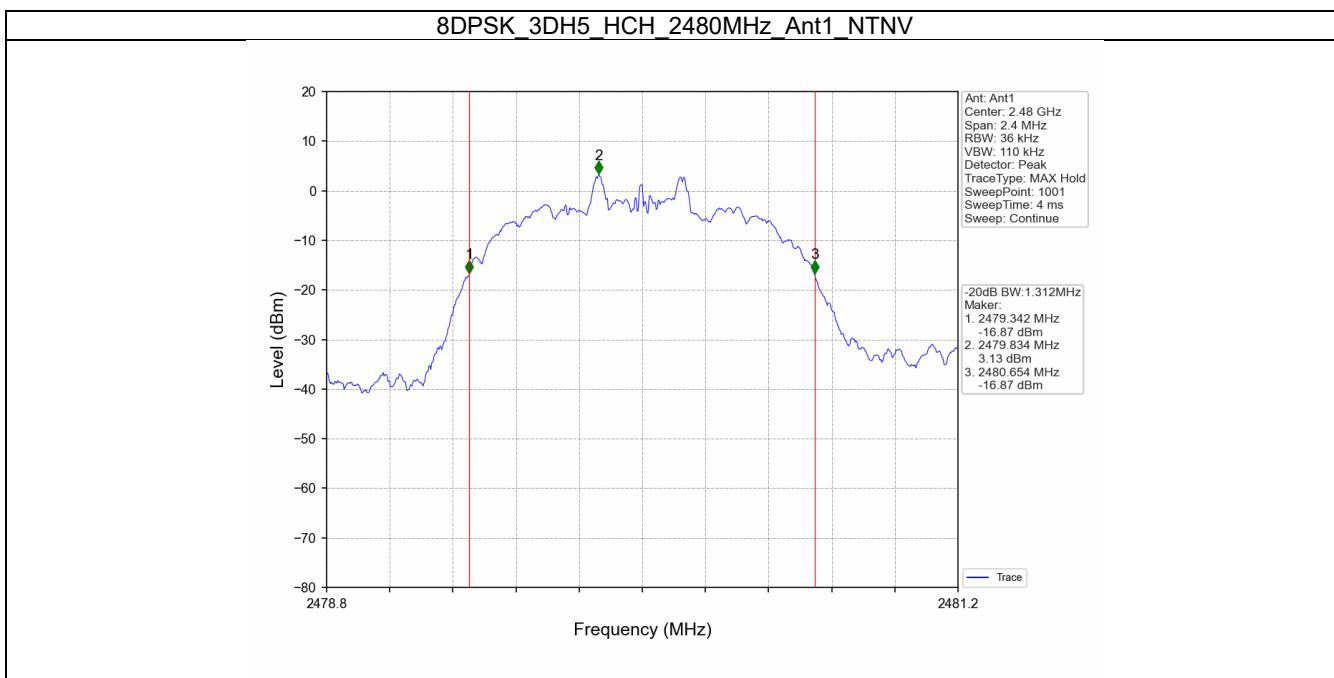
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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |         | Verdict |
|-----------|---------|-----------------|-------------|---|---------|---------|
|           |         |                 |             | Ant1                                      | Limit   |         |
| GFSK      | SISO    | 2402            | DH5         | 7.79                                      | <=30    | Pass    |
|           |         | 2441            | DH5         | 7.54                                      | <=30    | Pass    |
|           |         | 2480            | DH5         | 7.37                                      | <=30    | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 6.47                                      | <=20.97 | Pass    |
|           |         | 2441            | 2DH5        | 6.26                                      | <=20.97 | Pass    |
|           |         | 2480            | 2DH5        | 5.88                                      | <=20.97 | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 6.83                                      | <=20.97 | Pass    |
|           |         | 2441            | 3DH5        | 6.60                                      | <=20.97 | Pass    |
|           |         | 2480            | 3DH5        | 6.23                                      | <=20.97 | Pass    |

Note1: Antenna Gain: Ant1: 0.00dBi;

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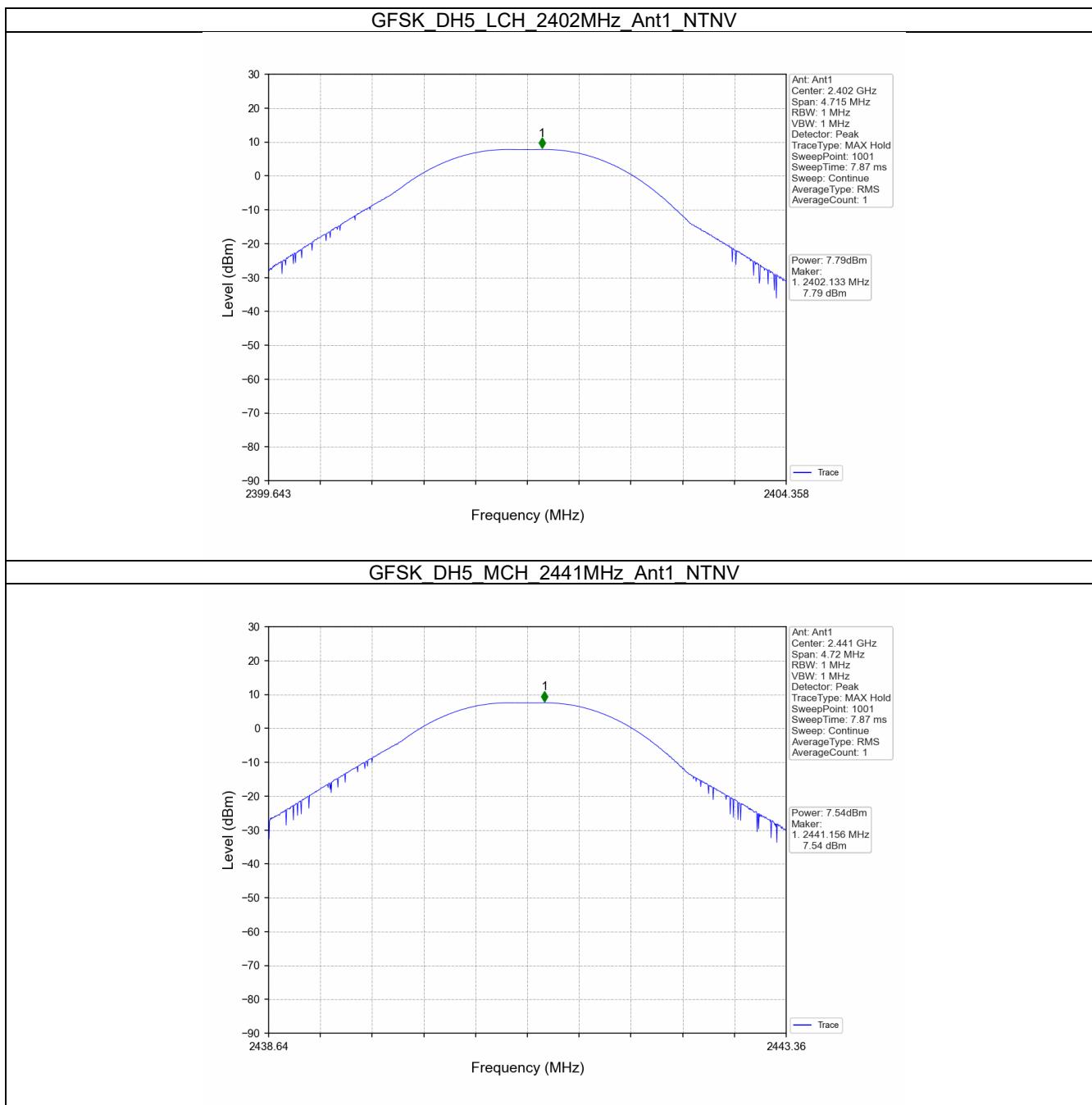
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## 2.1.2 Test Graph



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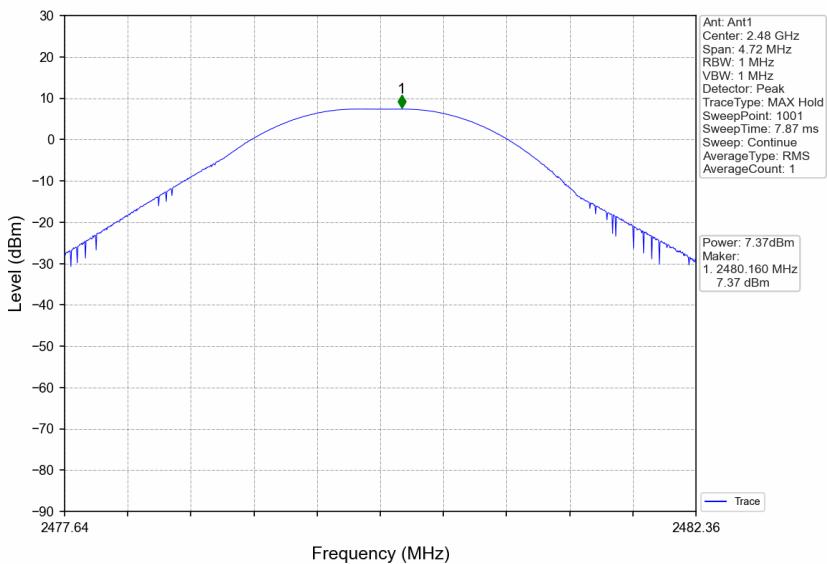


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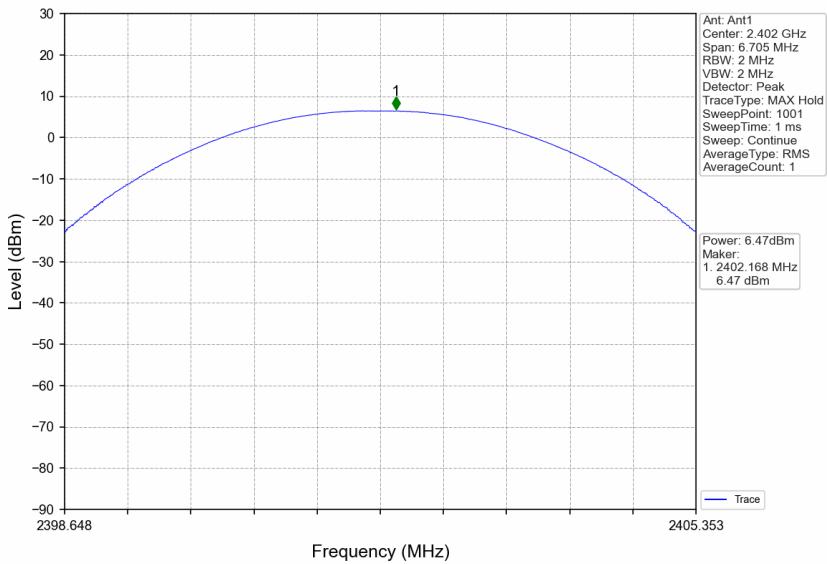
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## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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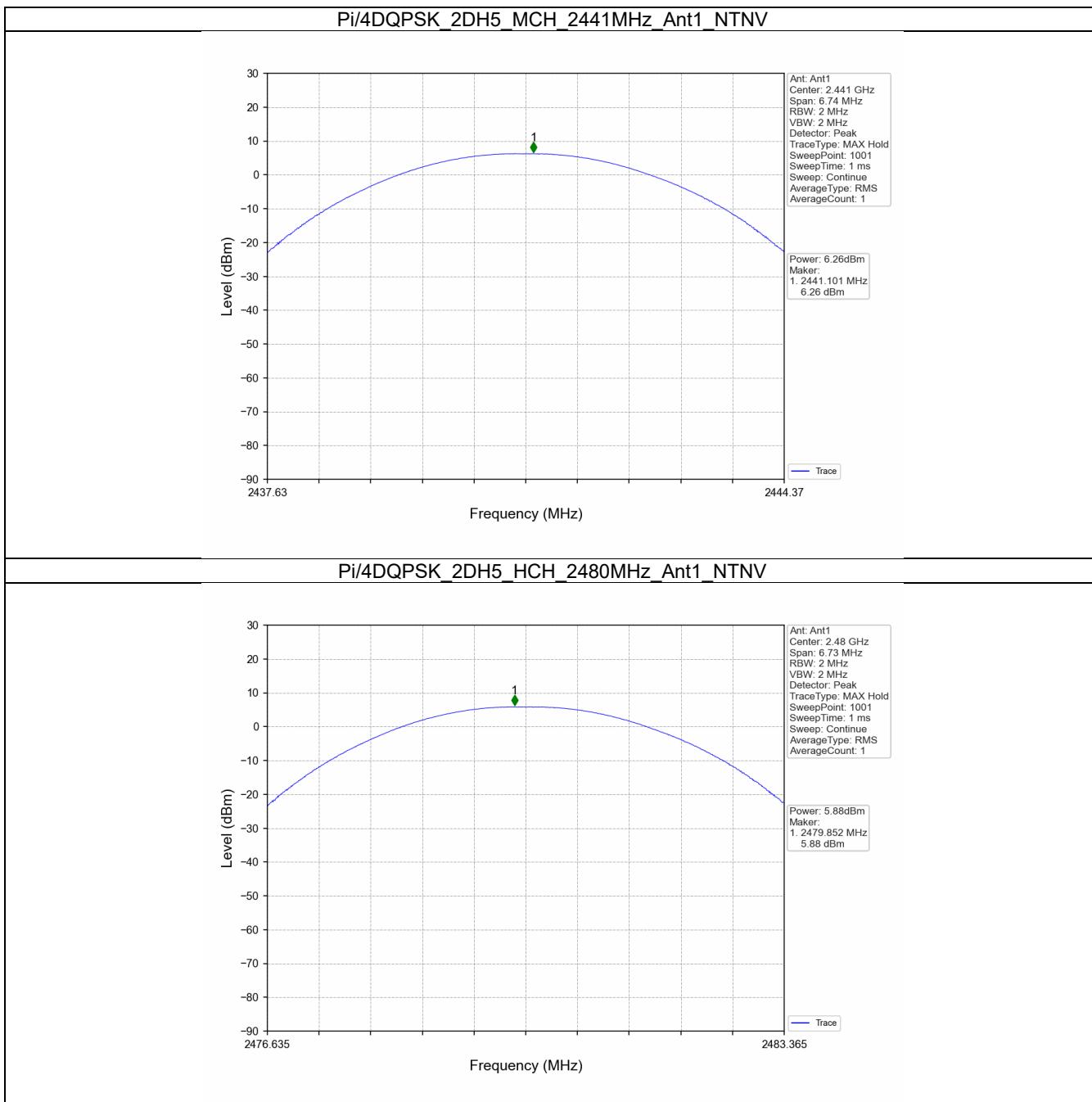
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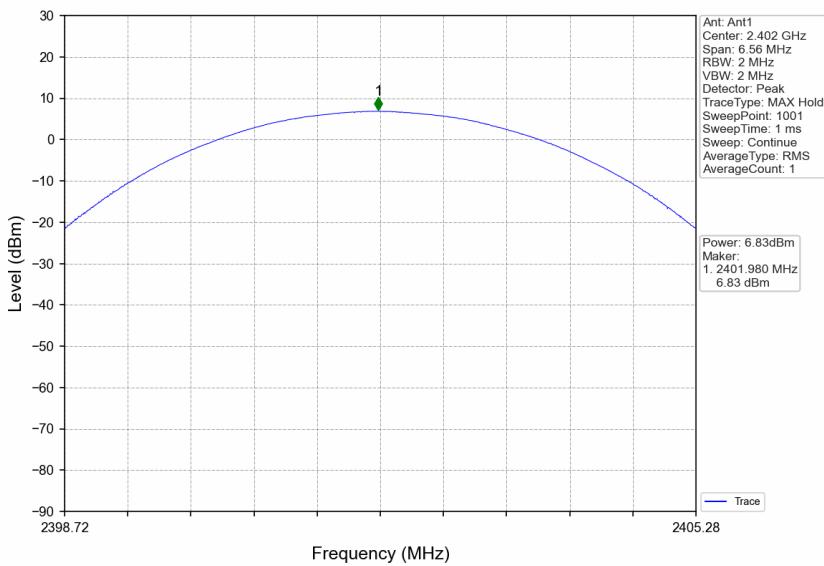


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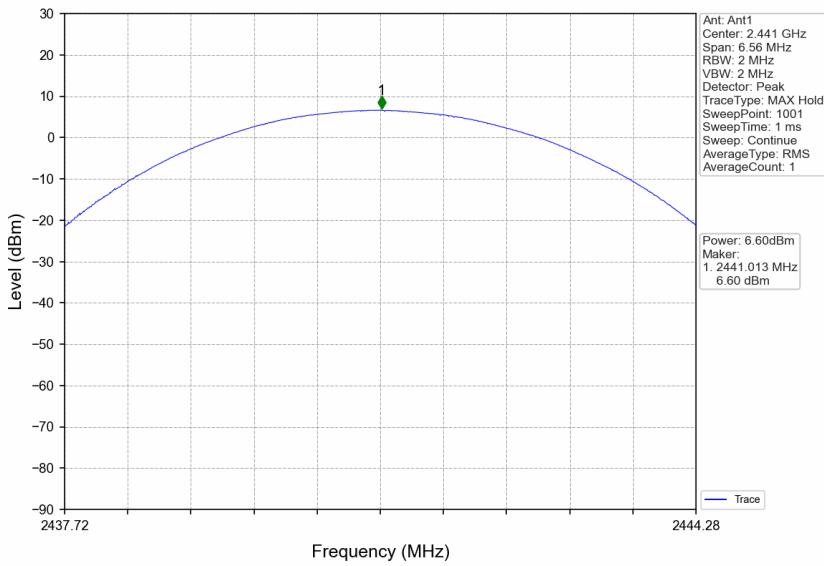
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## 8DPSK\_3DH5\_LCH\_2402MHz\_Ant1\_NTNV



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



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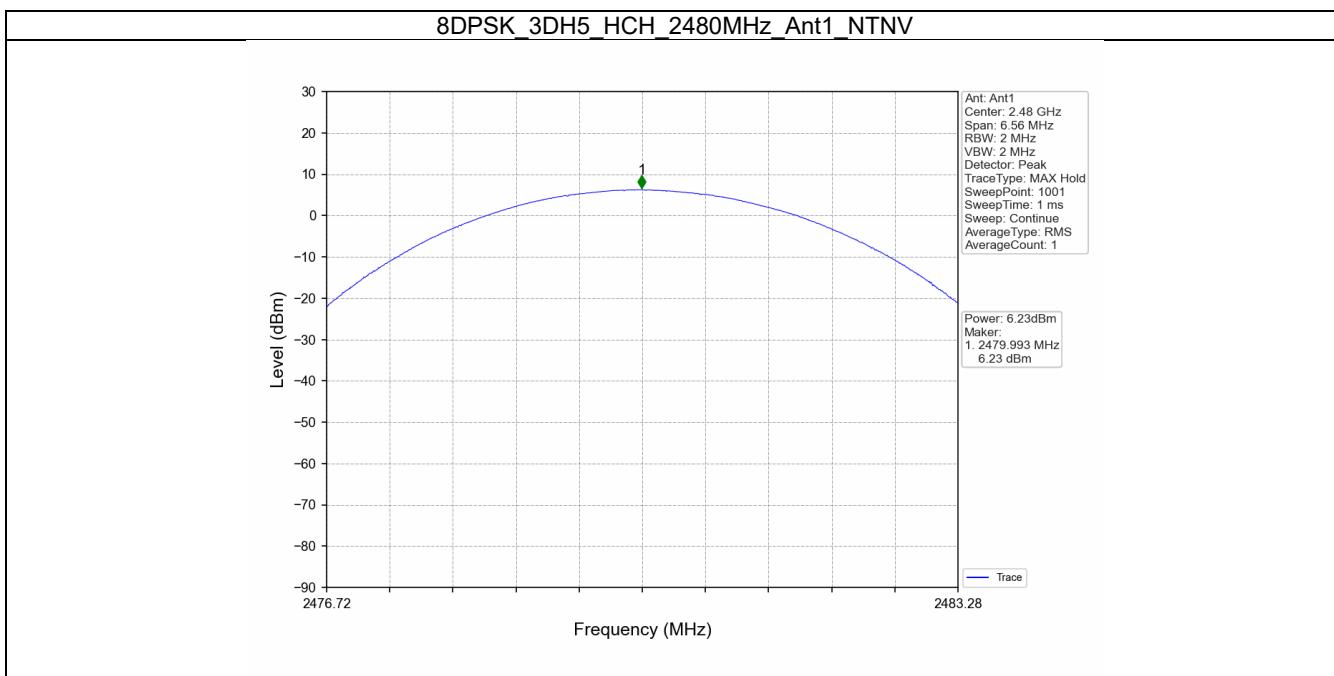
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### 3. Carrier Frequency Separation

#### 3.1 Ant1

##### 3.1.1 Test Result

| Ant1      |         |                 |             |                          |                      |             |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|-------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 1.012                    | 0.944                | >=0.944     | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.020                    | 1.348                | >=0.899     | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 0.994                    | 1.312                | >=0.875     | Pass    |



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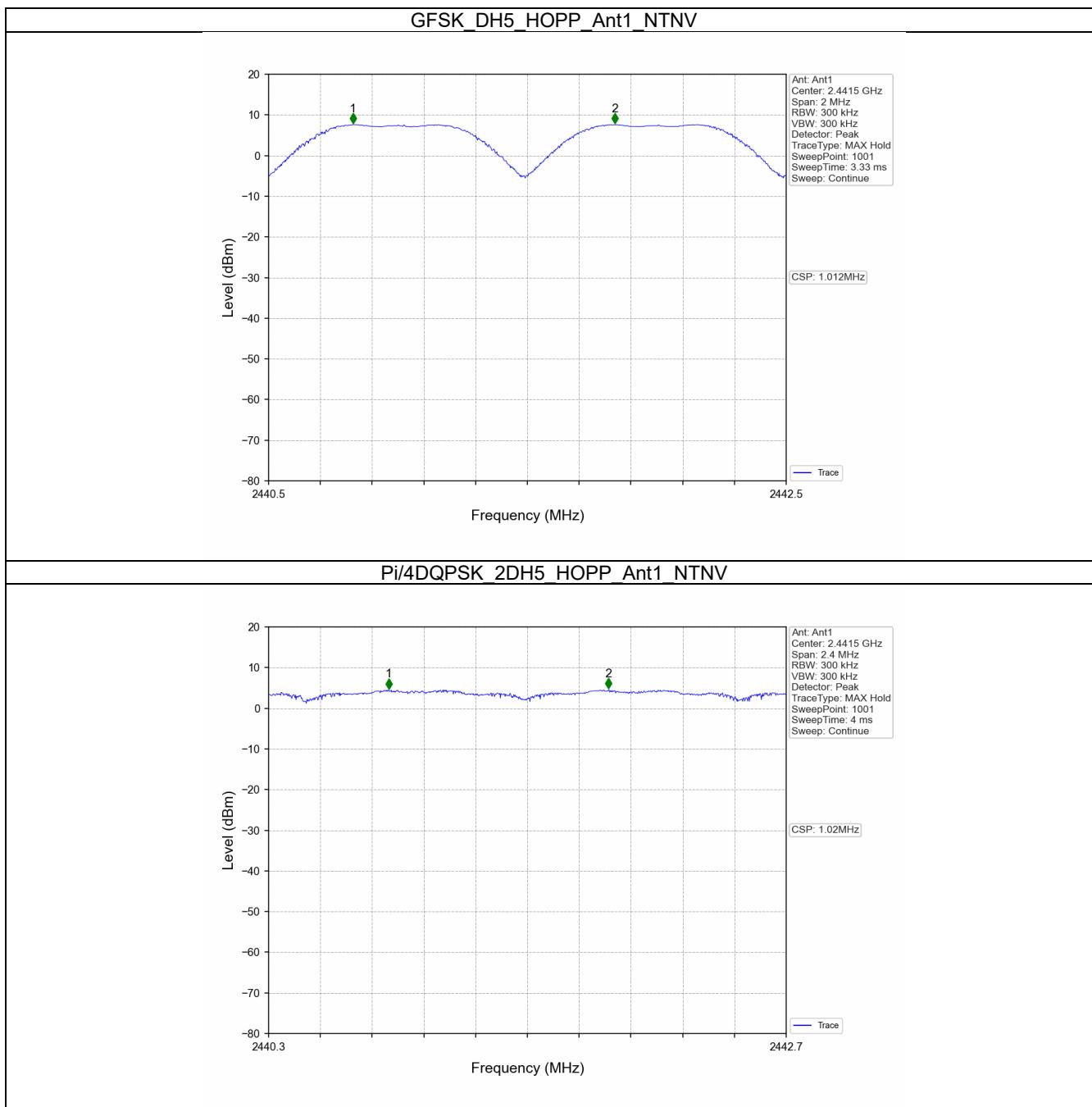
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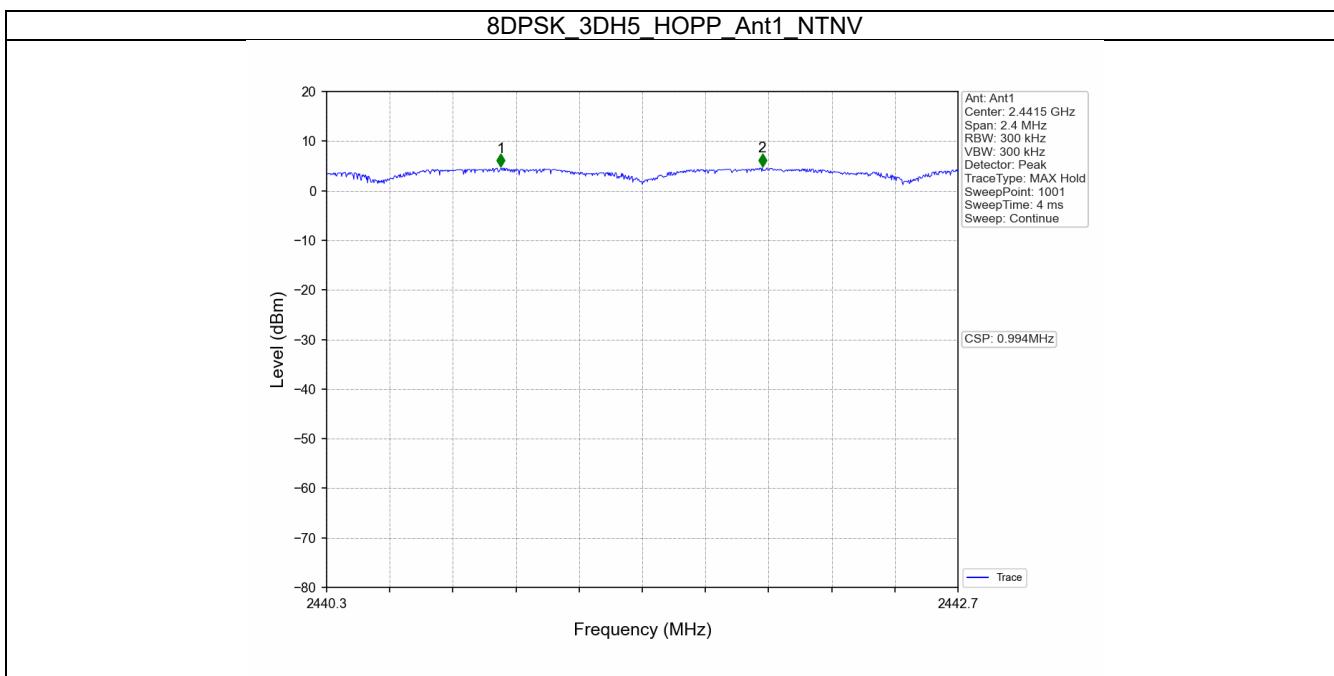
## 3.1.2 Test Graph



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## 4. Number of Hopping Frequencies

### 4.1 HoppNum

#### 4.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |       | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
|           |         |                 |             | Ant1                       | Limit |         |
| GFSK      | SISO    | HOPP            | DH5         | 79                         | >=15  | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 79                         | >=15  | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 79                         | >=15  | Pass    |



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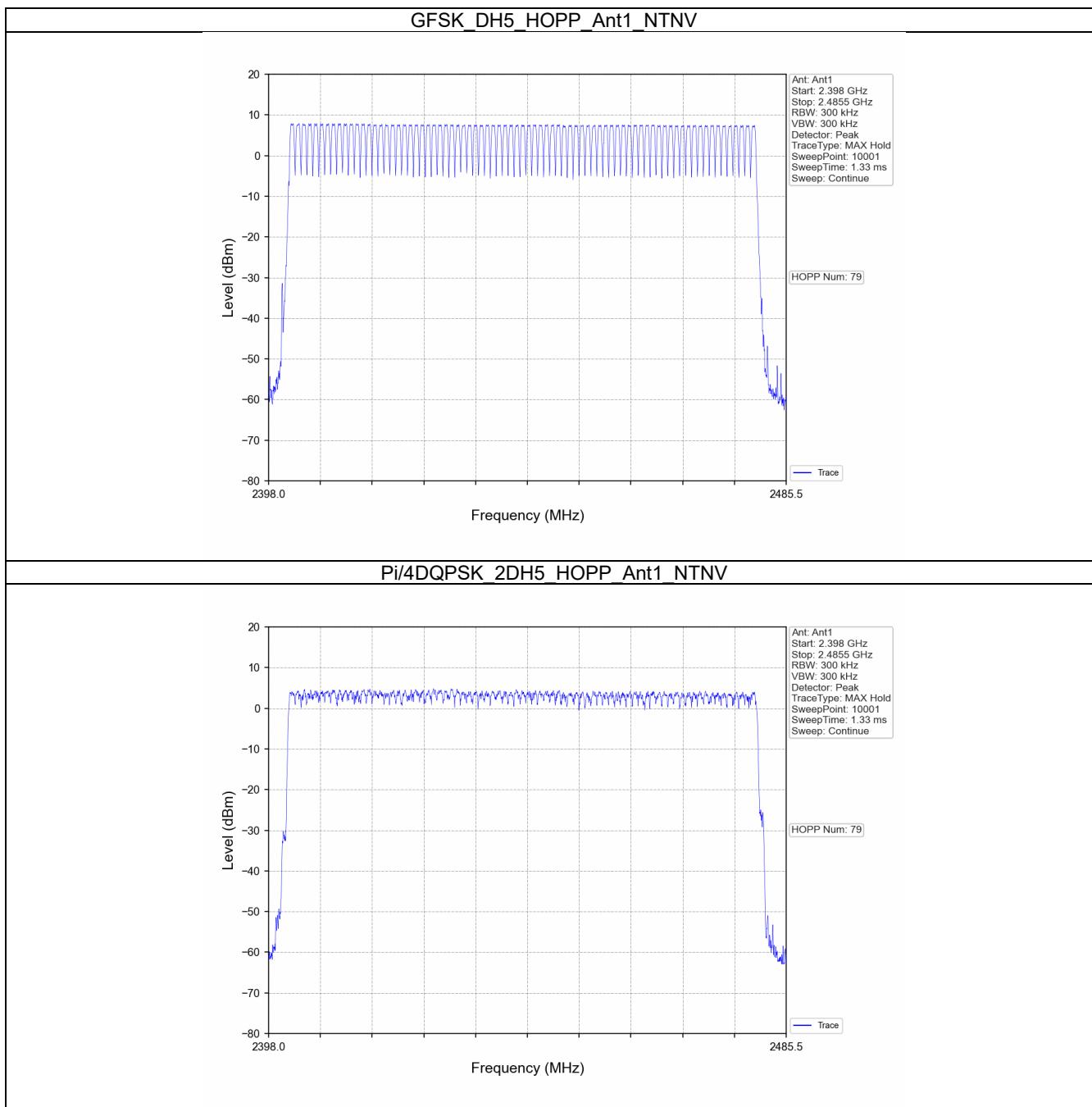
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## 4.1.2 Test Graph



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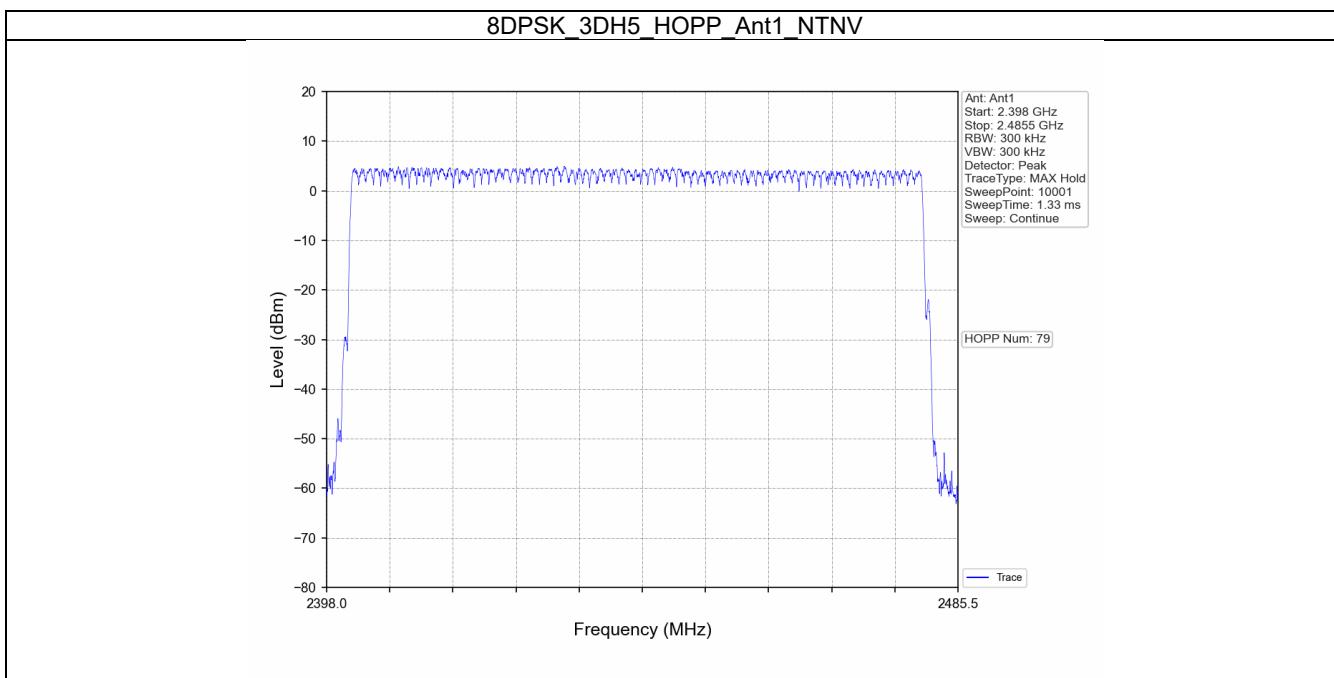
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## 5. Time of Occupancy (Dwell Time)

### 5.1 Ant1

#### 5.1.1 Test Result

| 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         | 0.386                         | 31.600                 | 319                                | 123.134         | <=400      | Pass    |
|           |         |                 | DH3         | 1.640                         | 31.600                 | 166                                | 272.240         | <=400      | Pass    |
|           |         |                 | DH5         | 2.888                         | 31.600                 | 95                                 | 274.360         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.390                         | 31.600                 | 320                                | 124.800         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.642                         | 31.600                 | 156                                | 256.152         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.892                         | 31.600                 | 121                                | 349.932         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.390                         | 31.600                 | 320                                | 124.800         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.642                         | 31.600                 | 154                                | 252.868         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.892                         | 31.600                 | 112                                | 323.904         | <=400      | Pass    |



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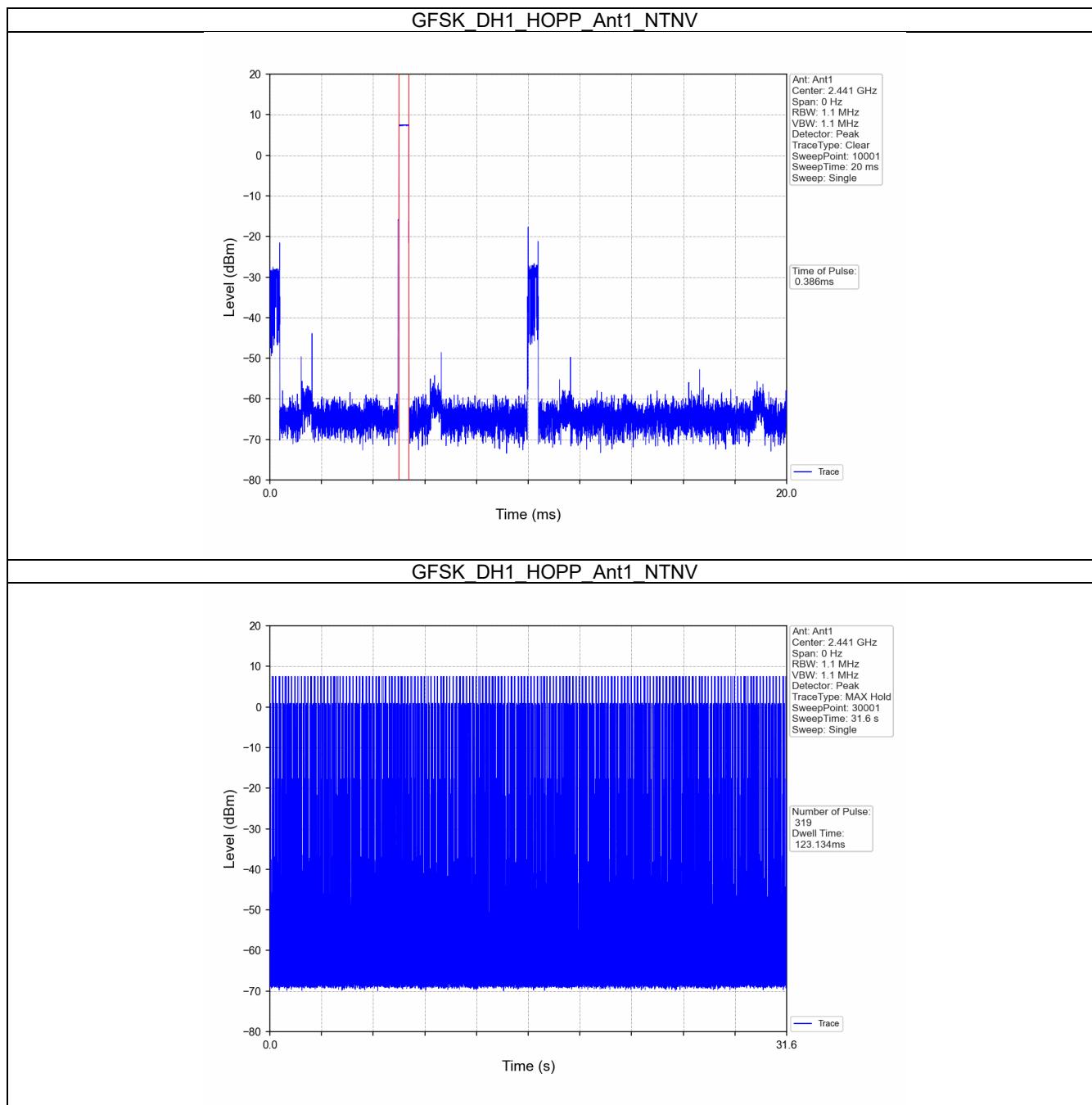
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## 5.1.2 Test Graph



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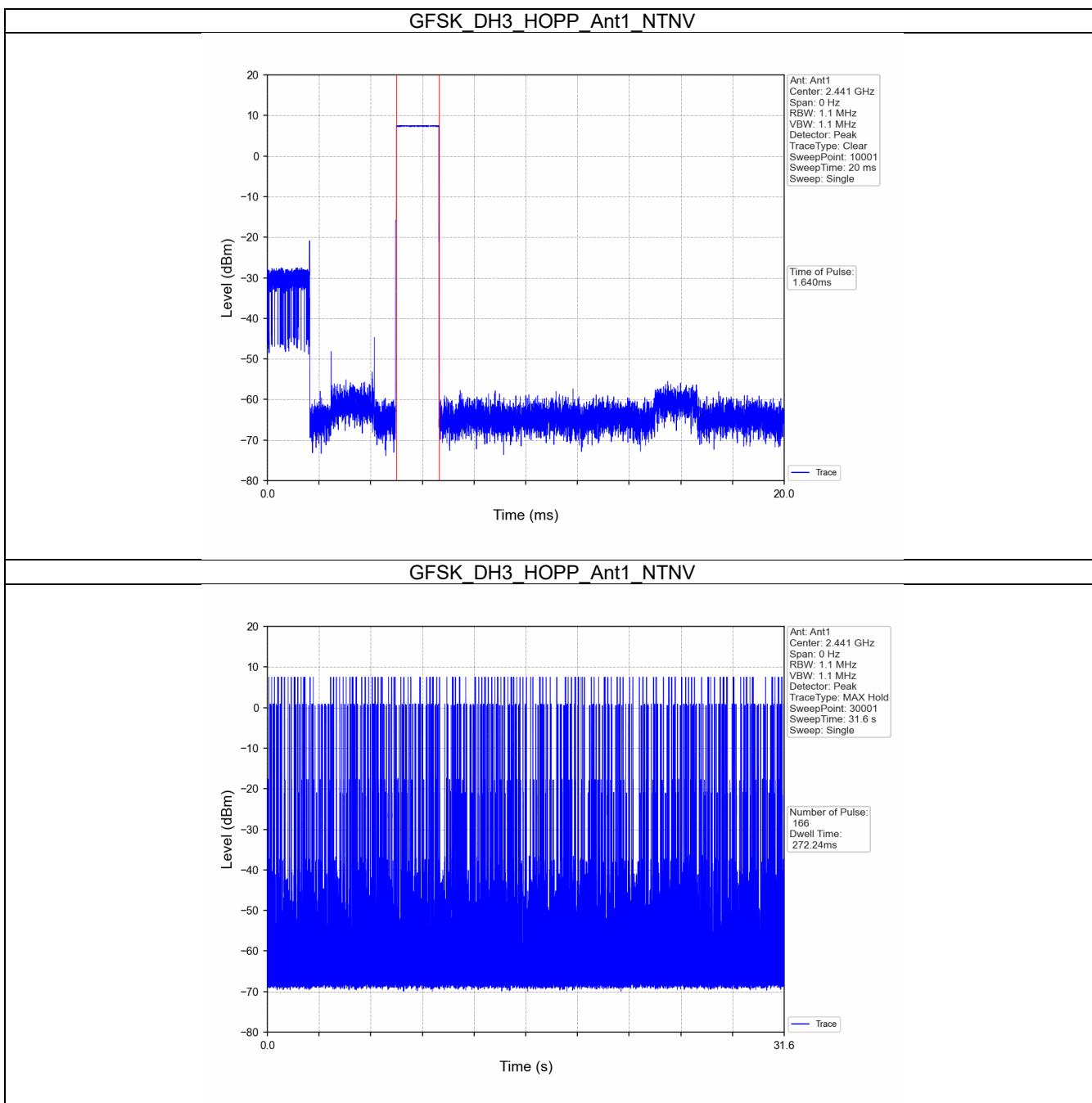
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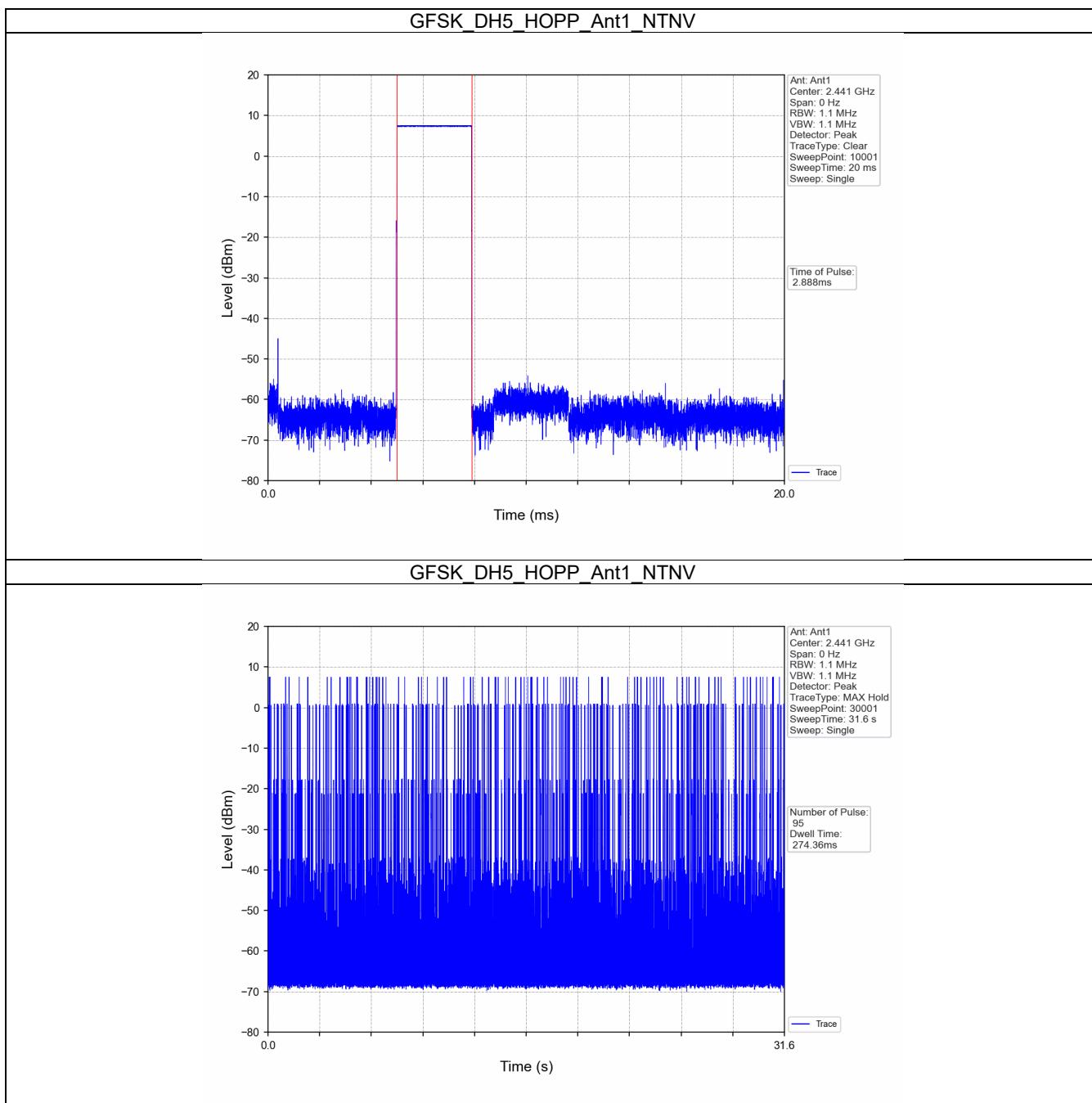
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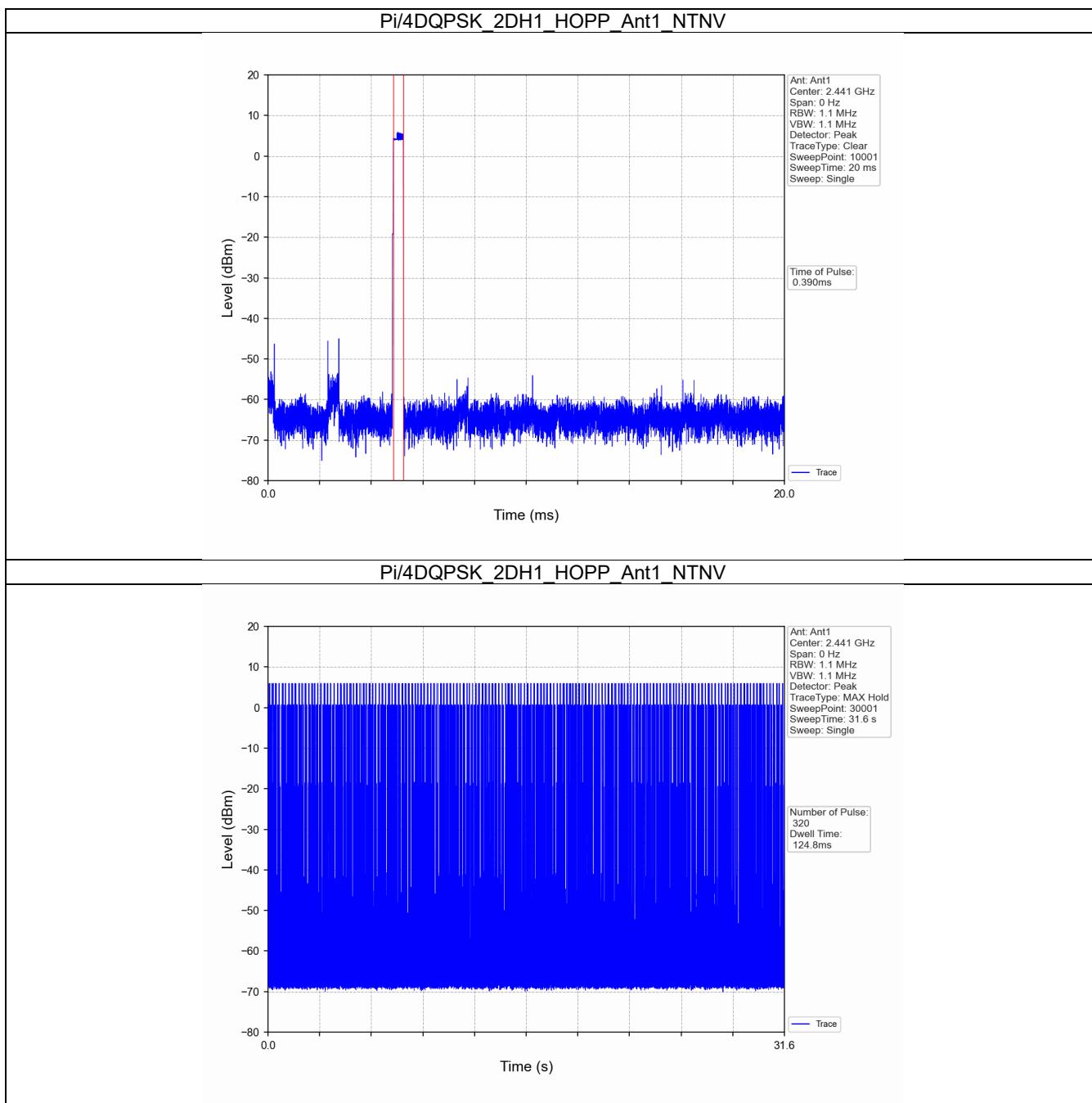
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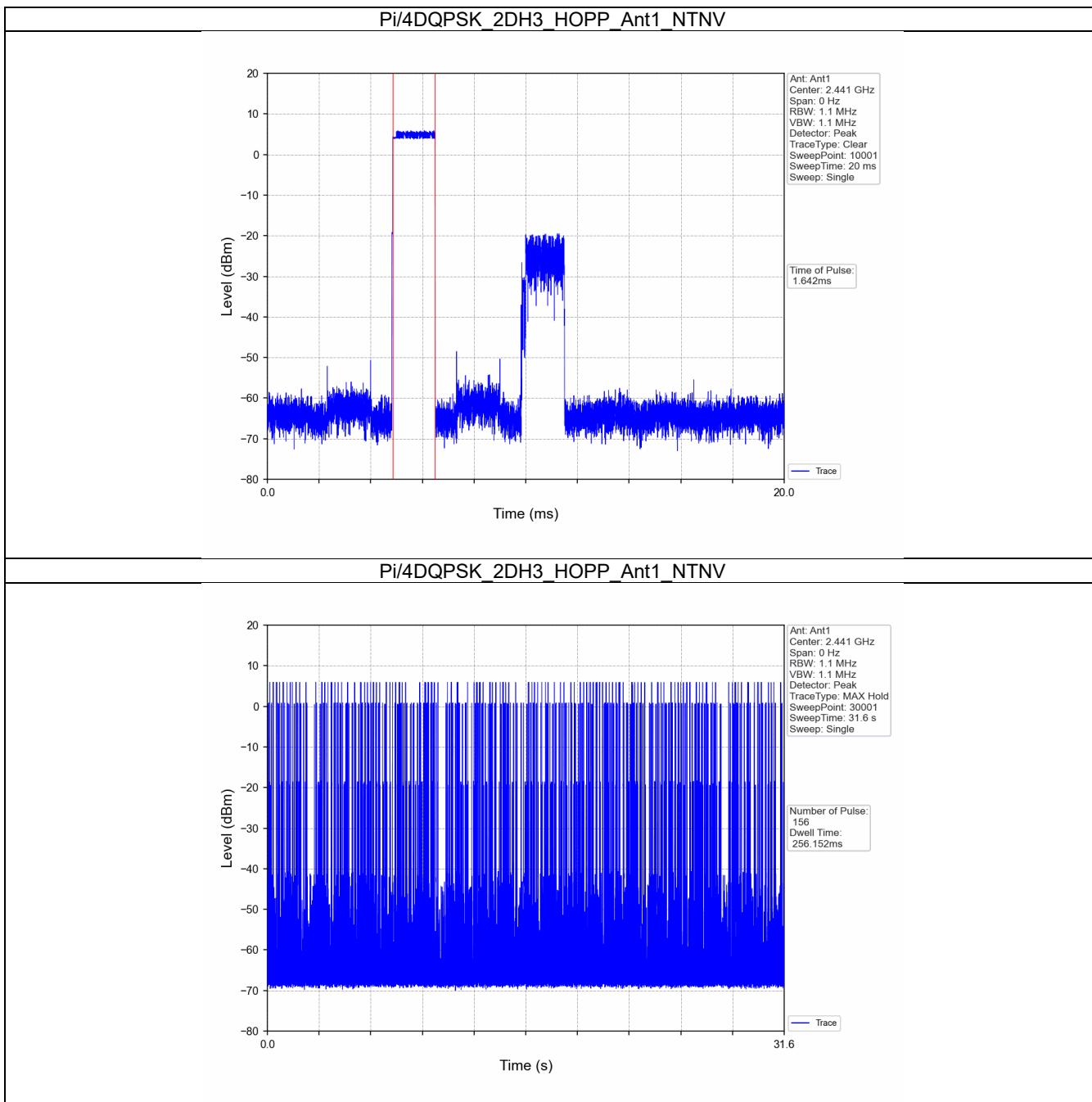
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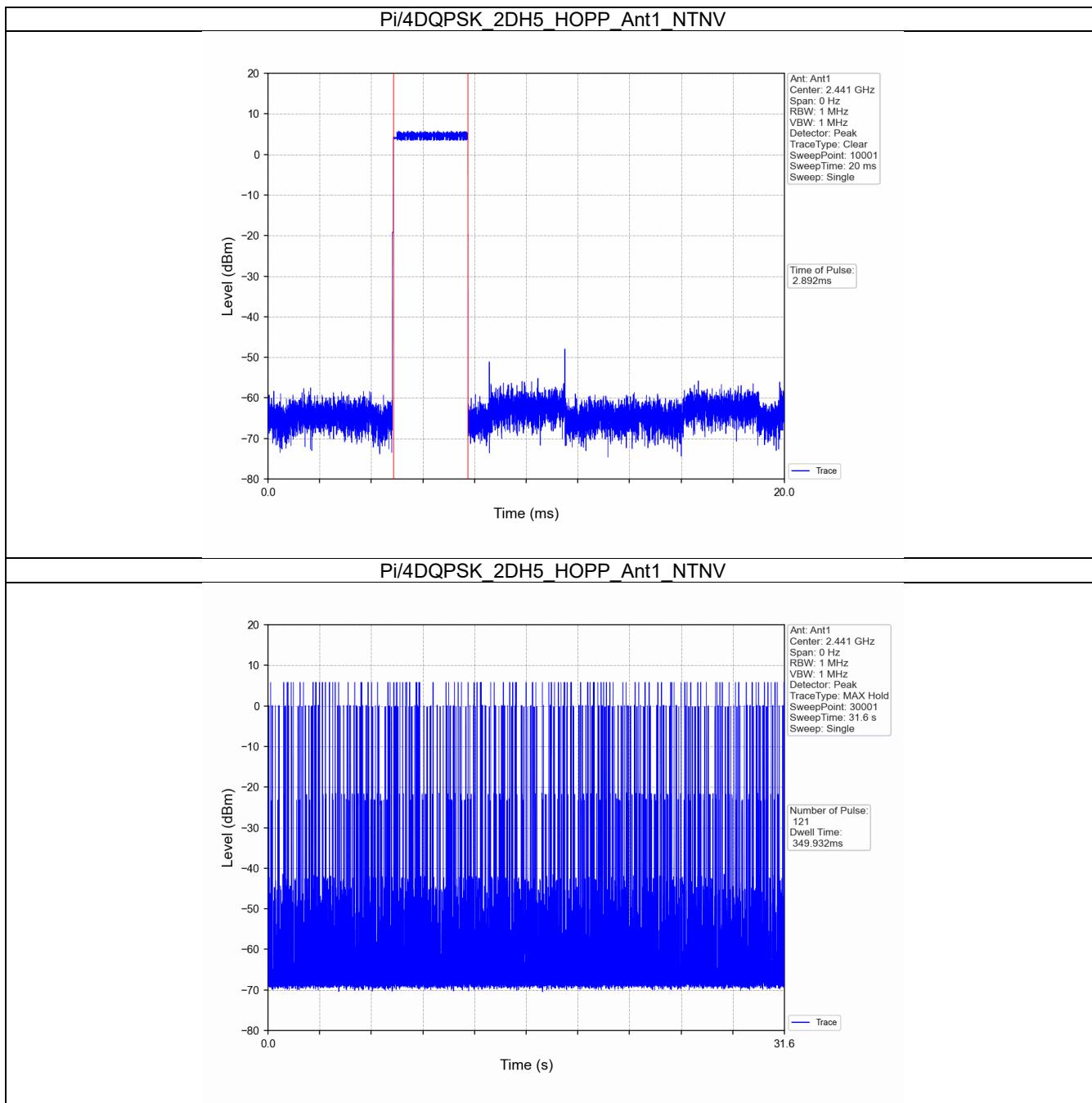
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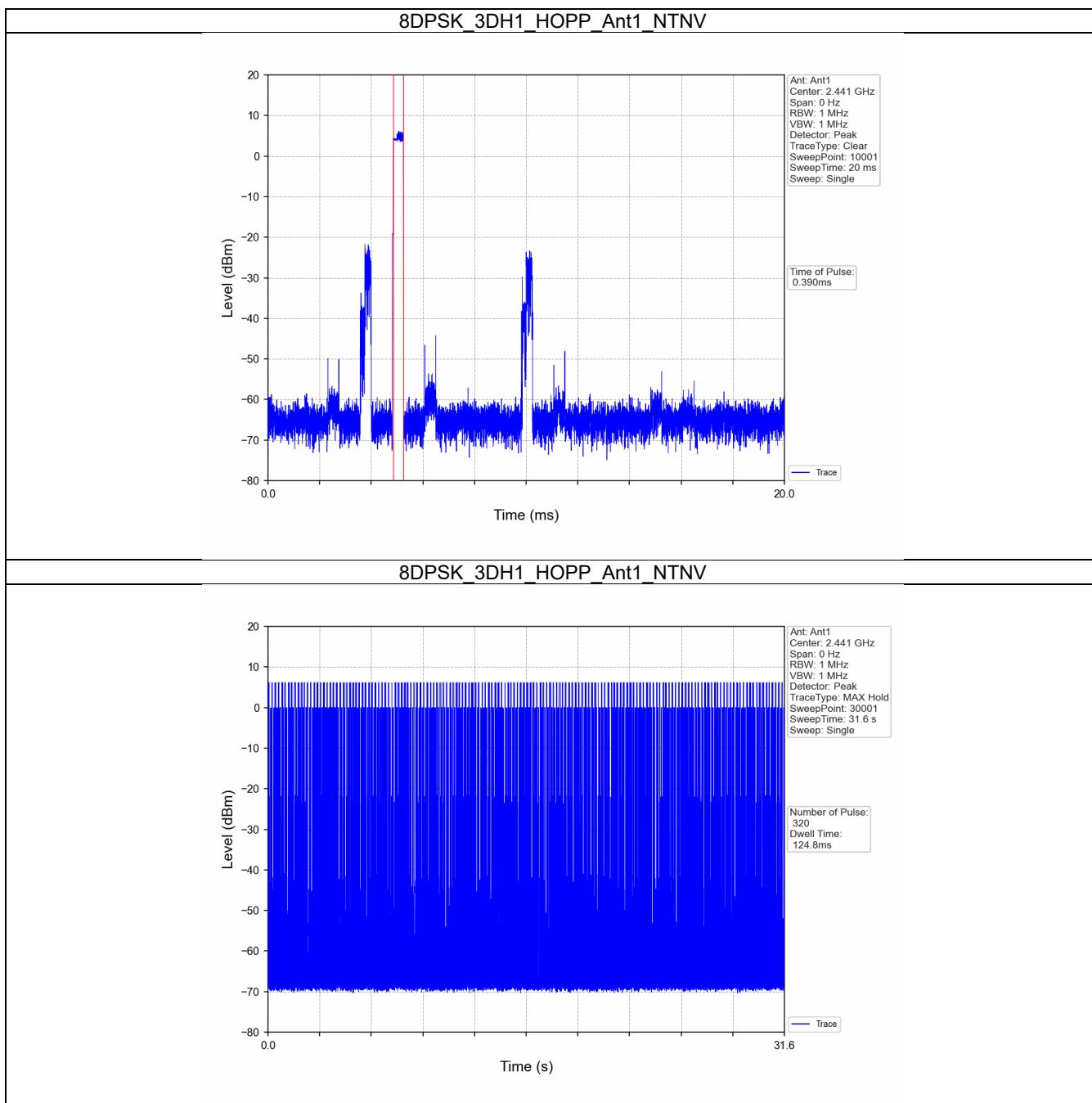
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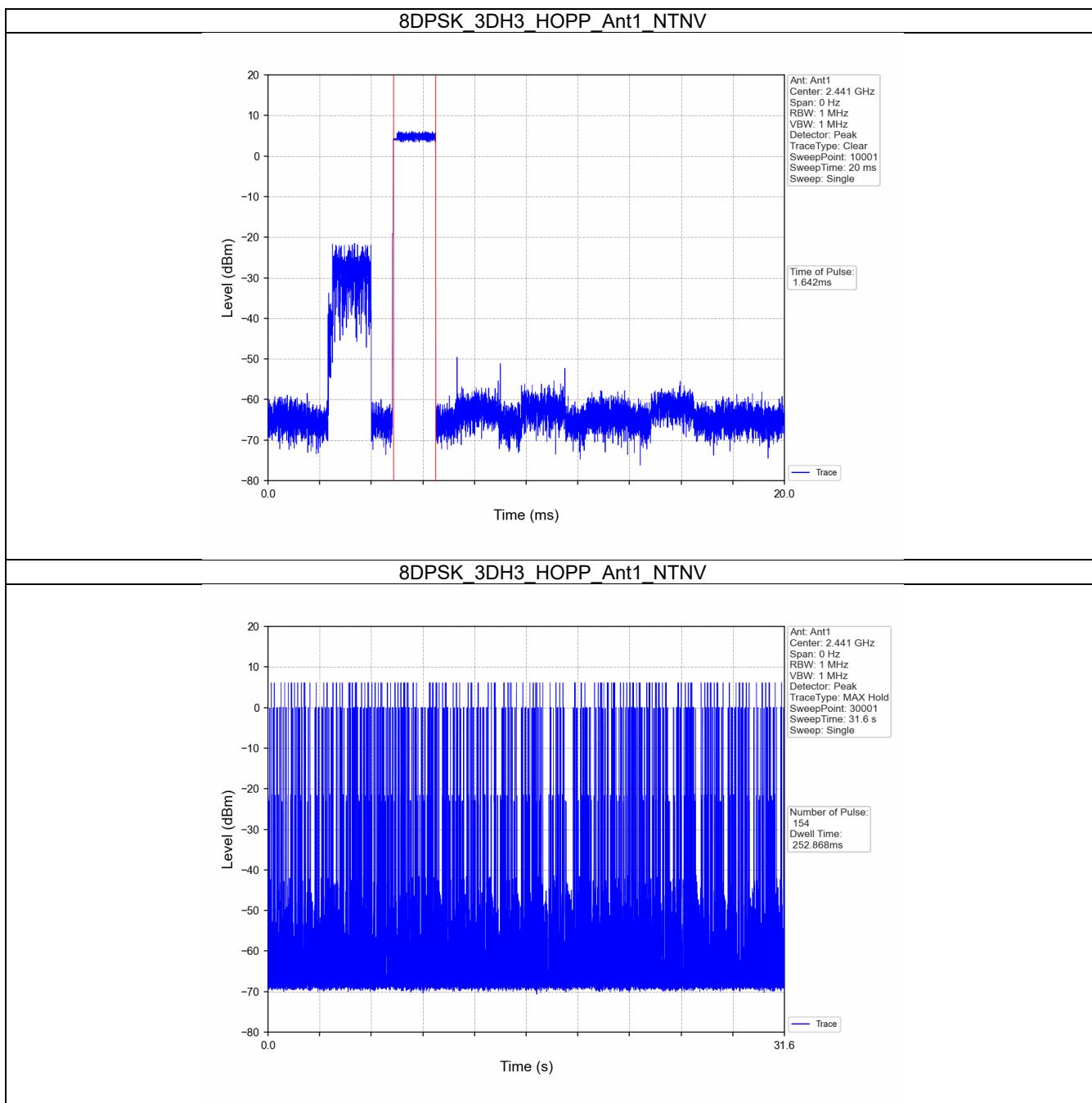
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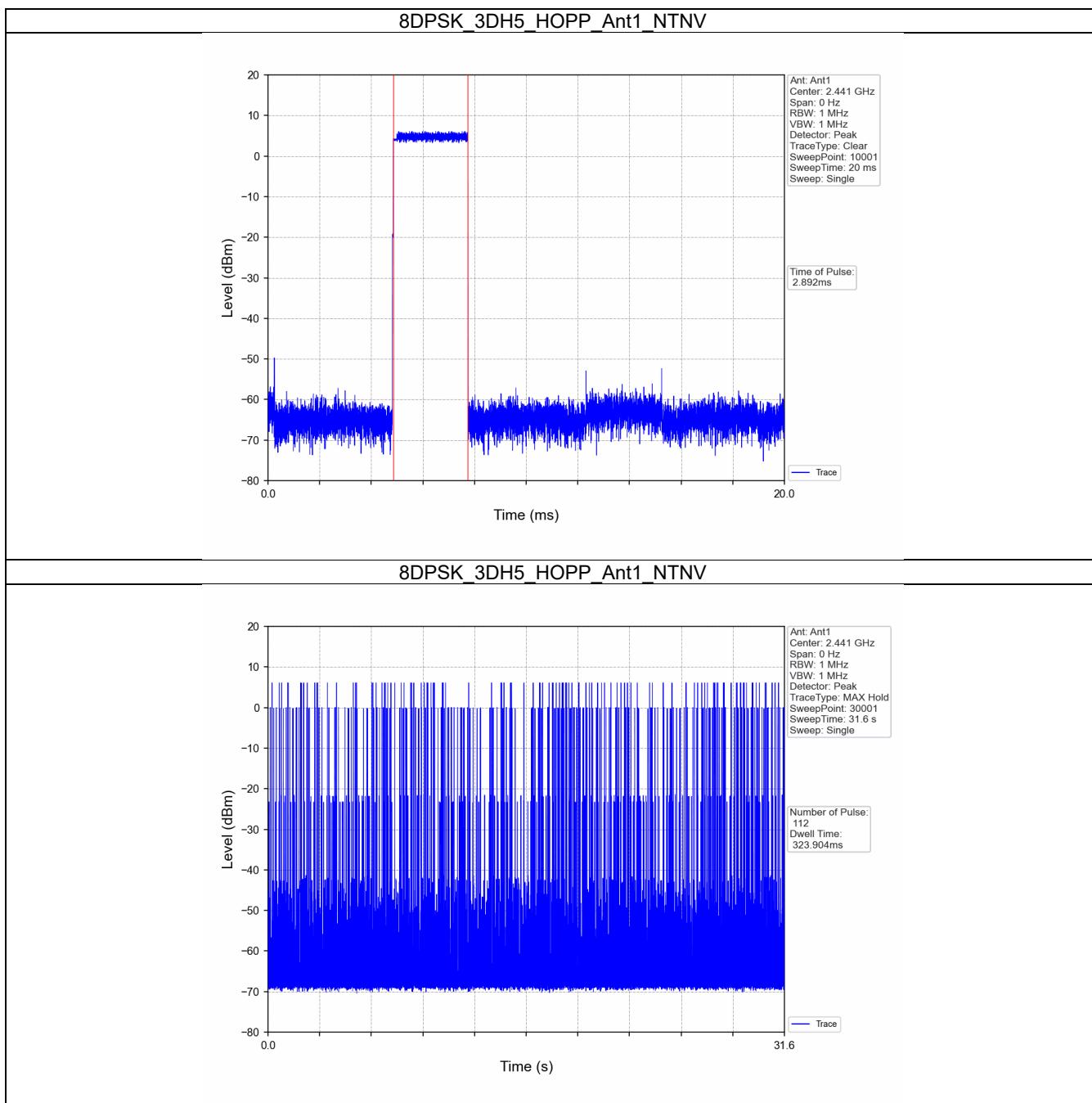
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## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Ref

#### 6.1.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 7.65                     |
|           |         | 2441            | DH5         | 1   | 7.39                     |
|           |         | 2480            | DH5         | 1   | 7.22                     |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 4.20                     |
|           |         | 2441            | 2DH5        | 1   | 4.12                     |
|           |         | 2480            | 2DH5        | 1   | 3.82                     |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 4.24                     |
|           |         | 2441            | 3DH5        | 1   | 4.15                     |
|           |         | 2480            | 3DH5        | 1   | 3.81                     |

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.

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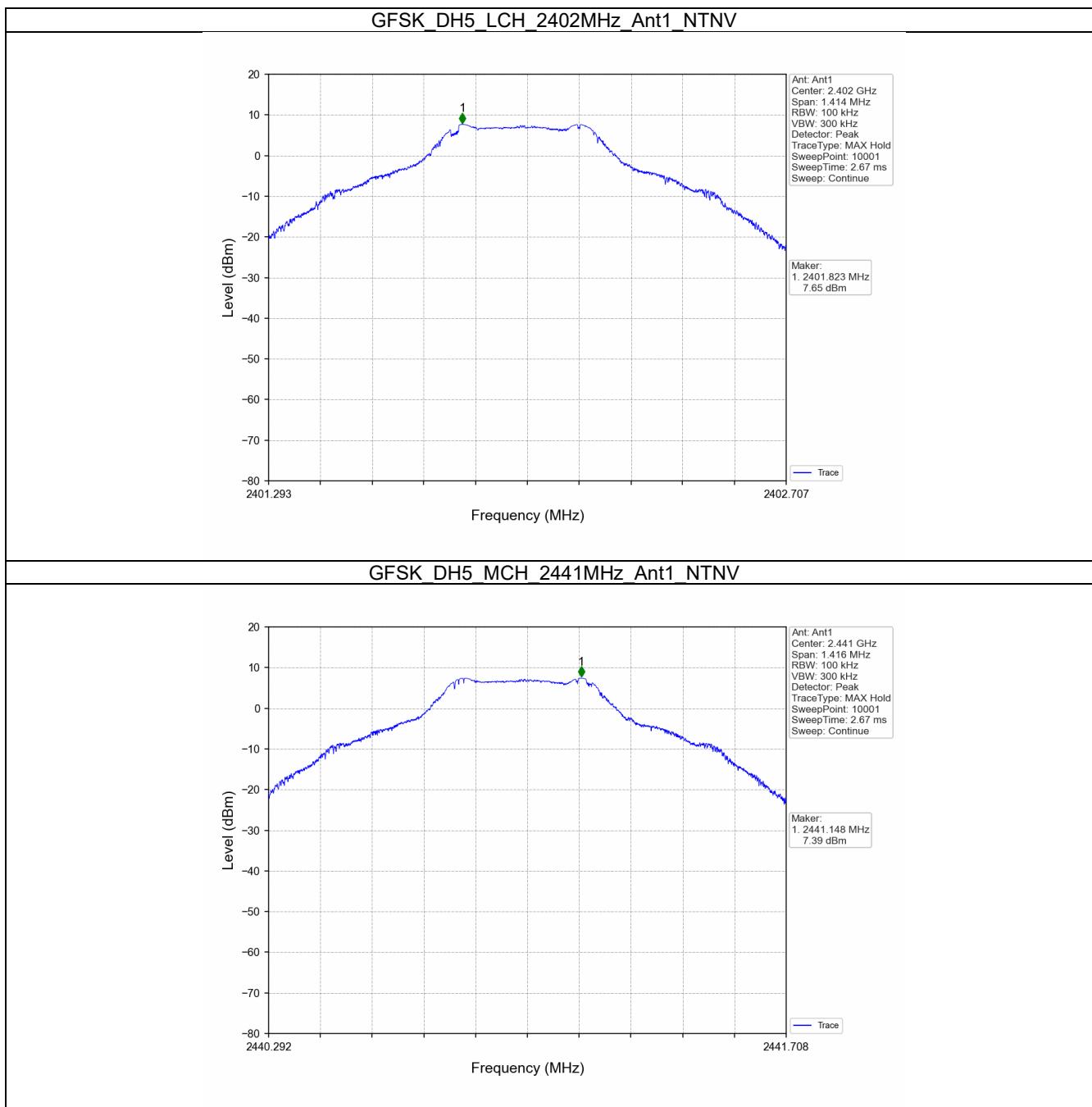
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## 6.1.2 Test Graph



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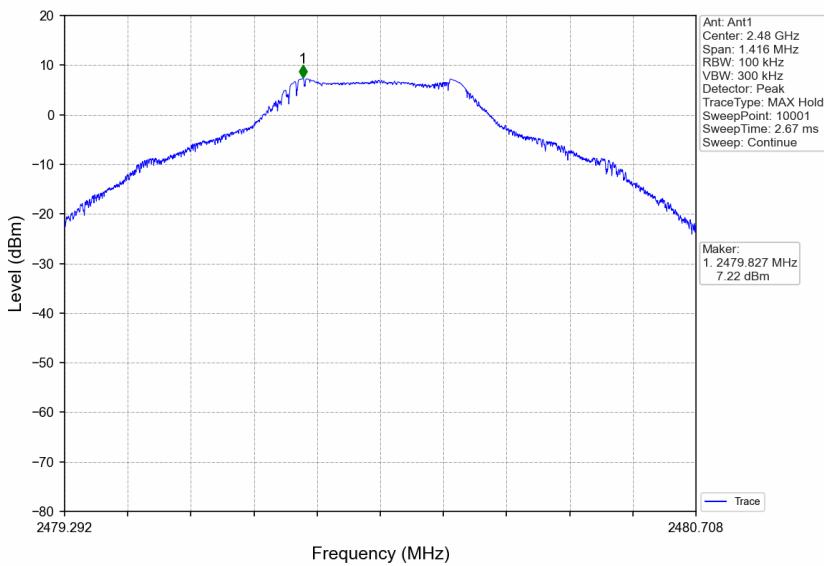
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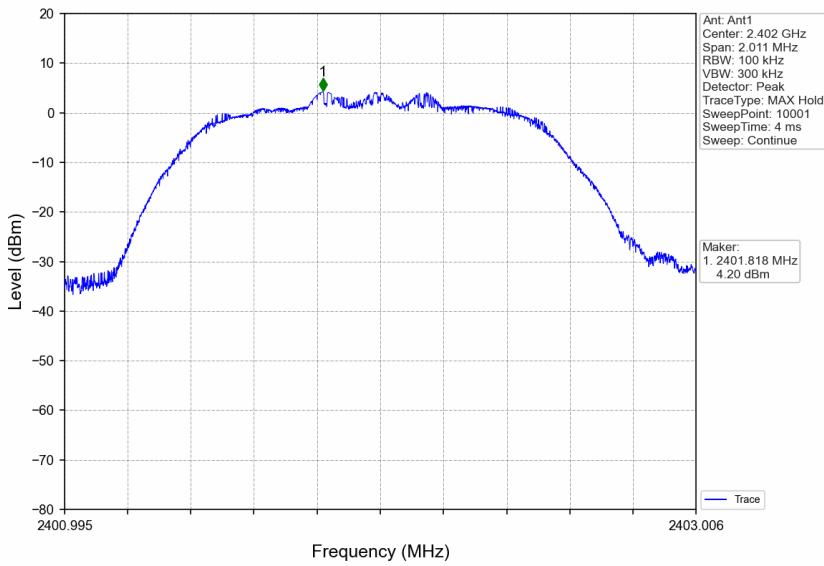
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## GFSK\_DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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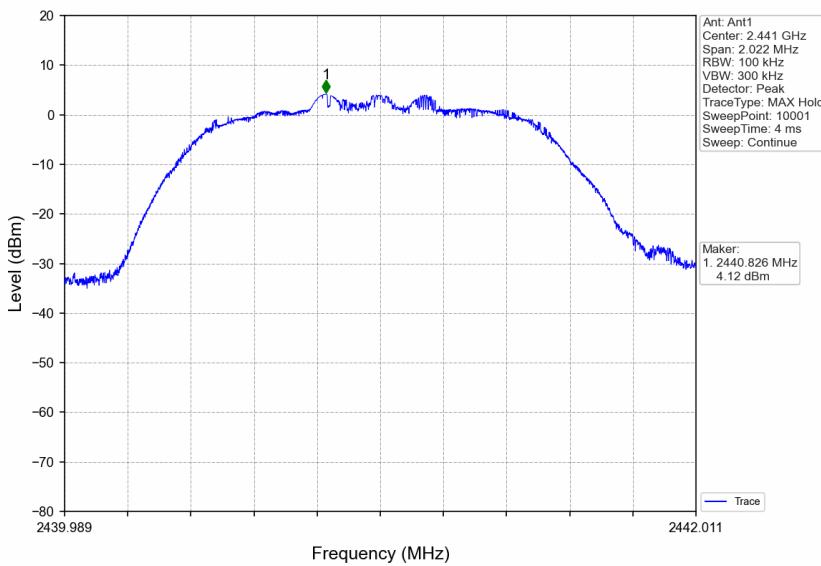


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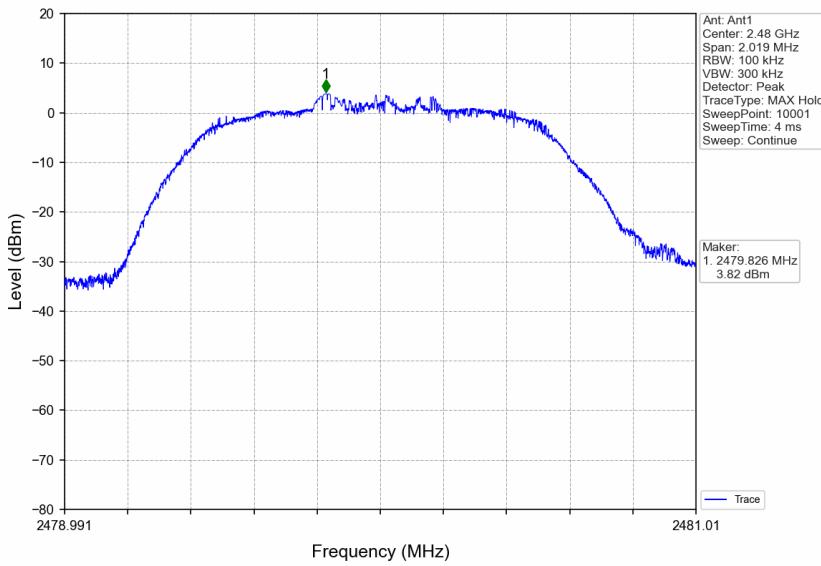
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## Pi/4DQPSK\_2DH5\_MCH\_2441MHz\_Ant1\_NTNV



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



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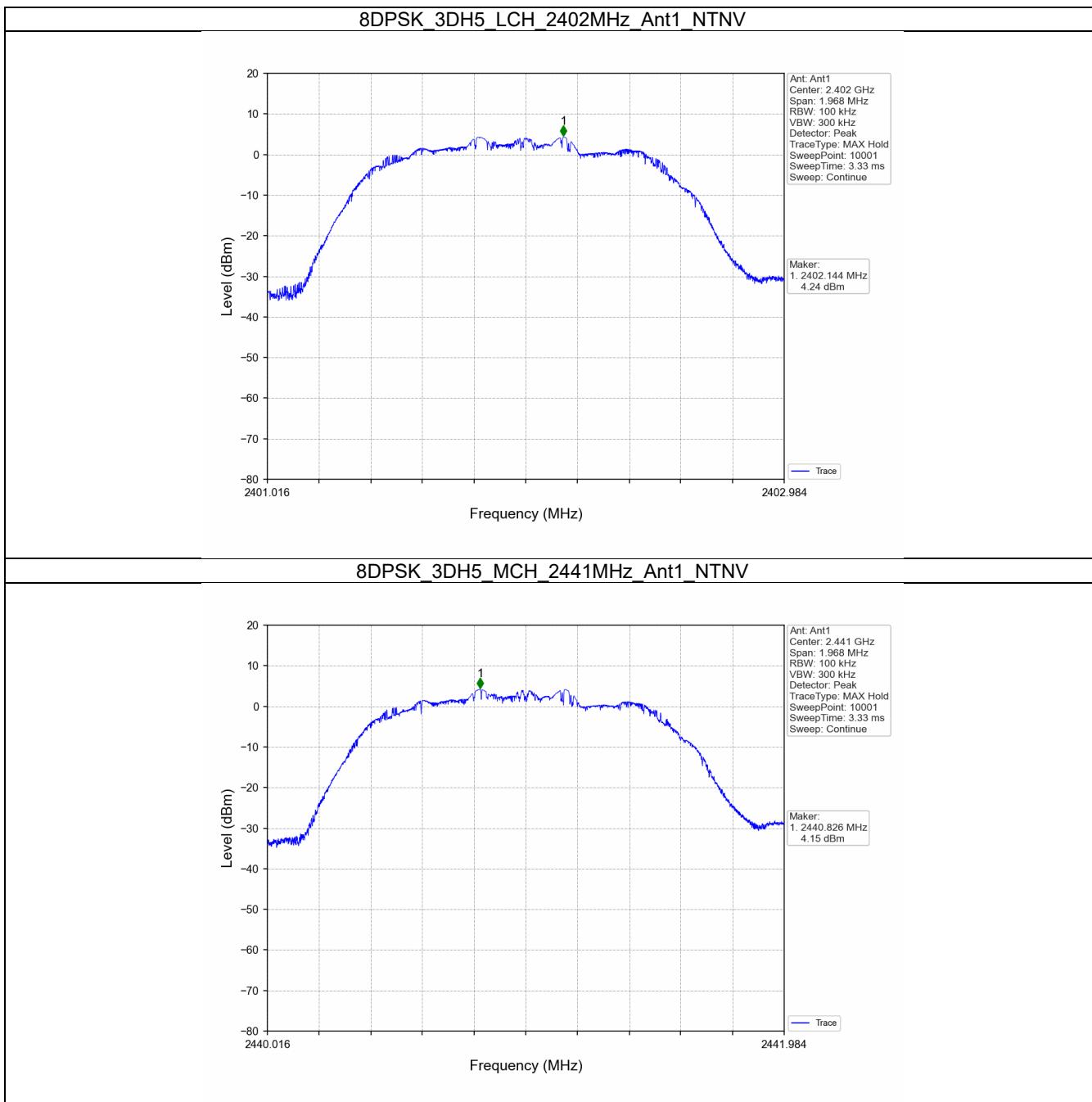
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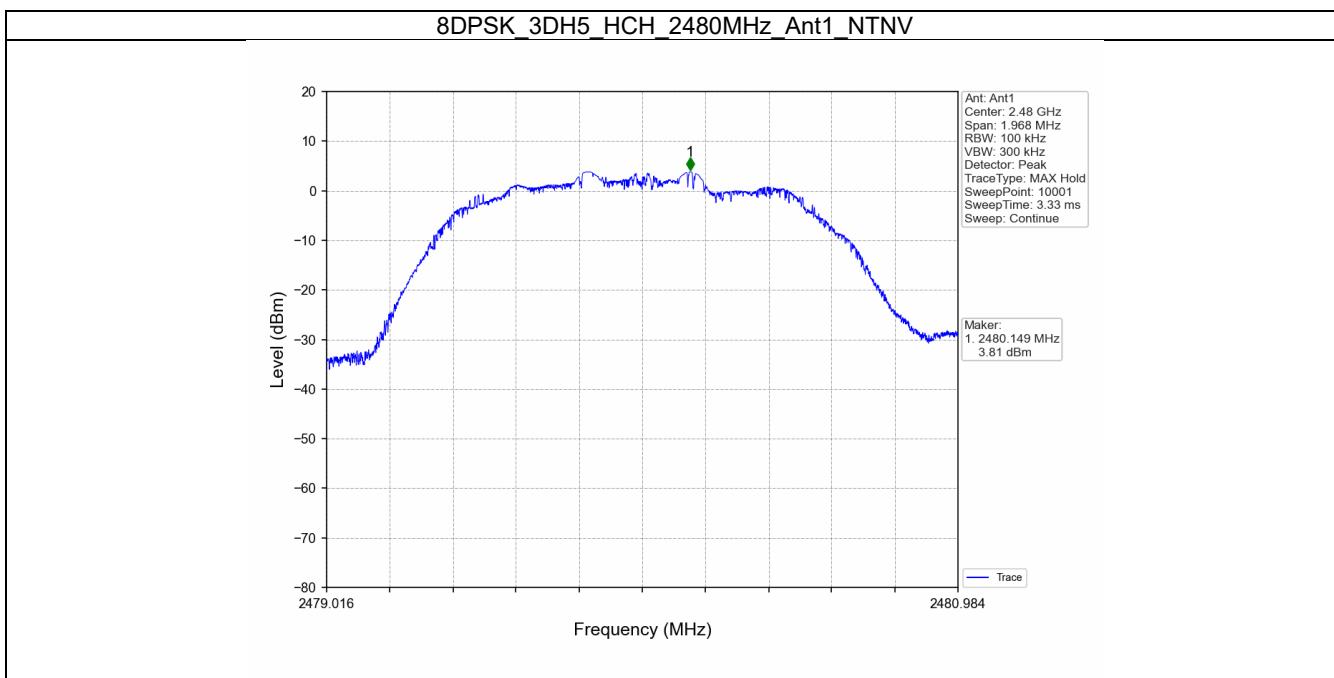
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## 6.2 CSE

## 6.2.1 Test Result

| Mode      | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 7.65                     | -12.35      | Pass    |
|           |         | 2441            | DH5         | 1   | 7.65                     | -12.35      | Pass    |
|           |         | 2480            | DH5         | 1   | 7.65                     | -12.35      | Pass    |
|           |         | HOPP            | DH5         | 1   | 7.65                     | -12.35      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 4.20                     | -15.80      | Pass    |
|           |         | 2441            | 2DH5        | 1   | 4.20                     | -15.80      | Pass    |
|           |         | 2480            | 2DH5        | 1   | 4.20                     | -15.80      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 4.20                     | -15.80      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 4.24                     | -15.76      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 4.24                     | -15.76      | Pass    |
|           |         | 2480            | 3DH5        | 1   | 4.24                     | -15.76      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 4.24                     | -15.76      | 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.



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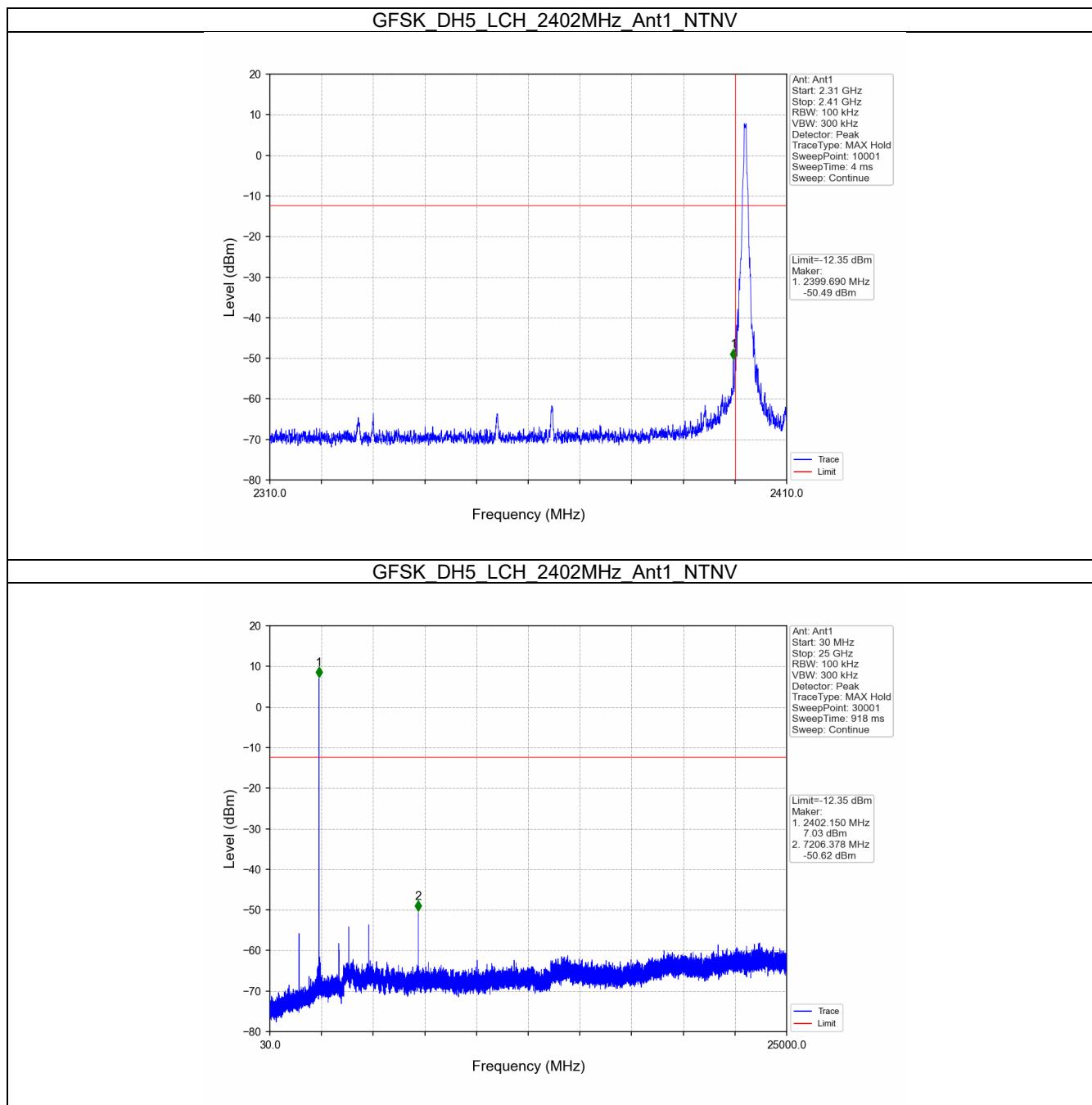
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## 6.2.2 Test Graph



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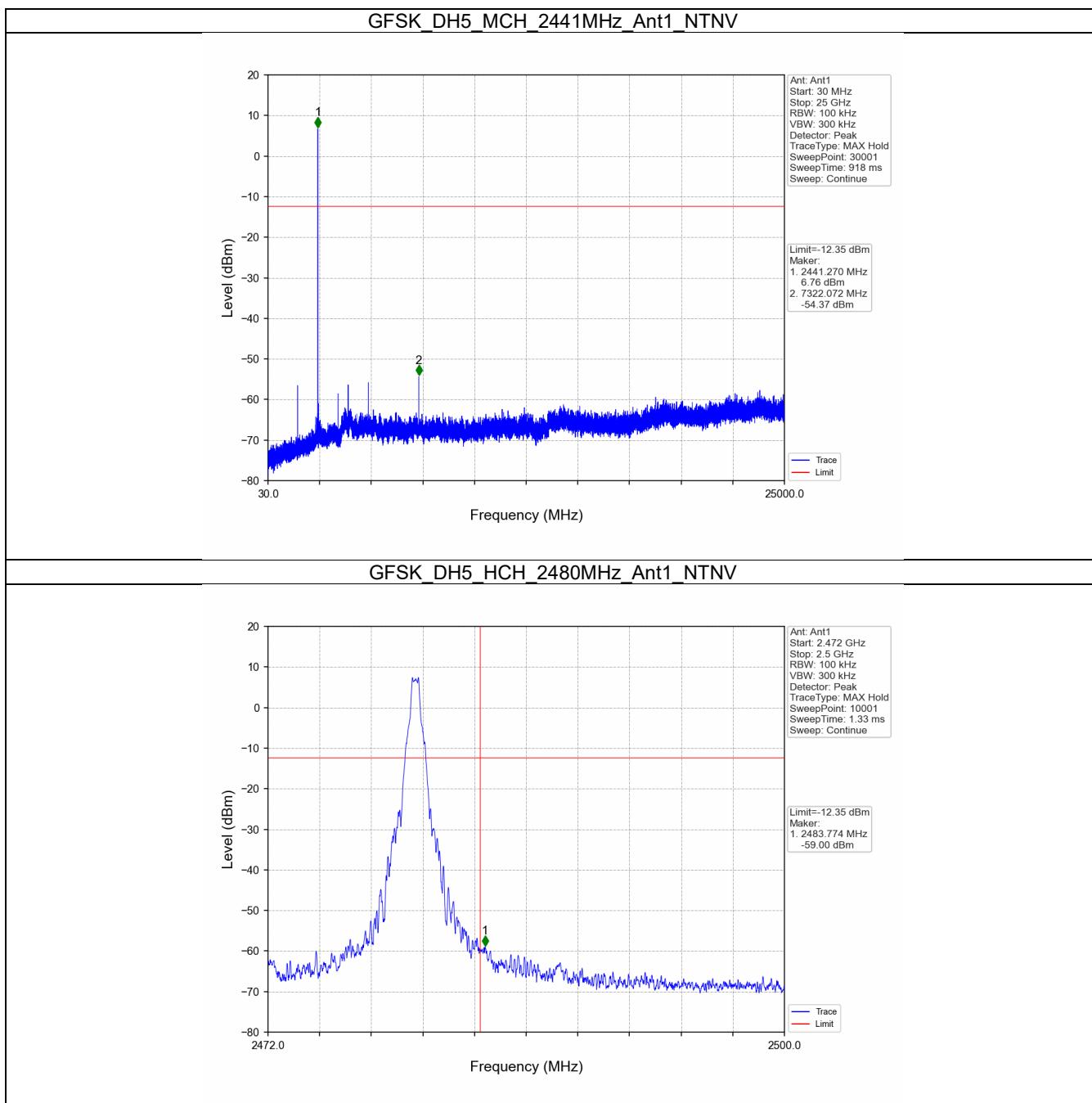
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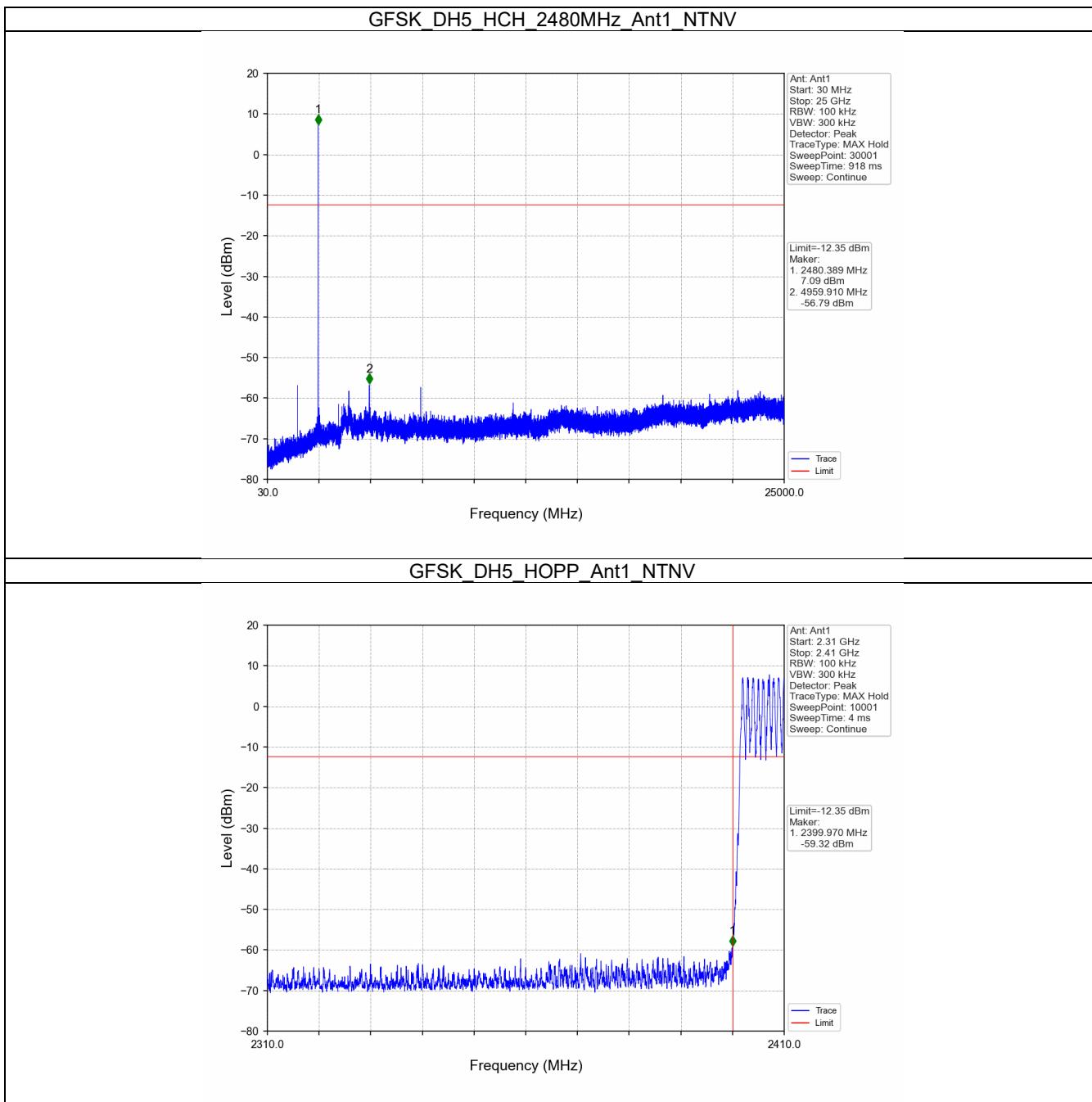
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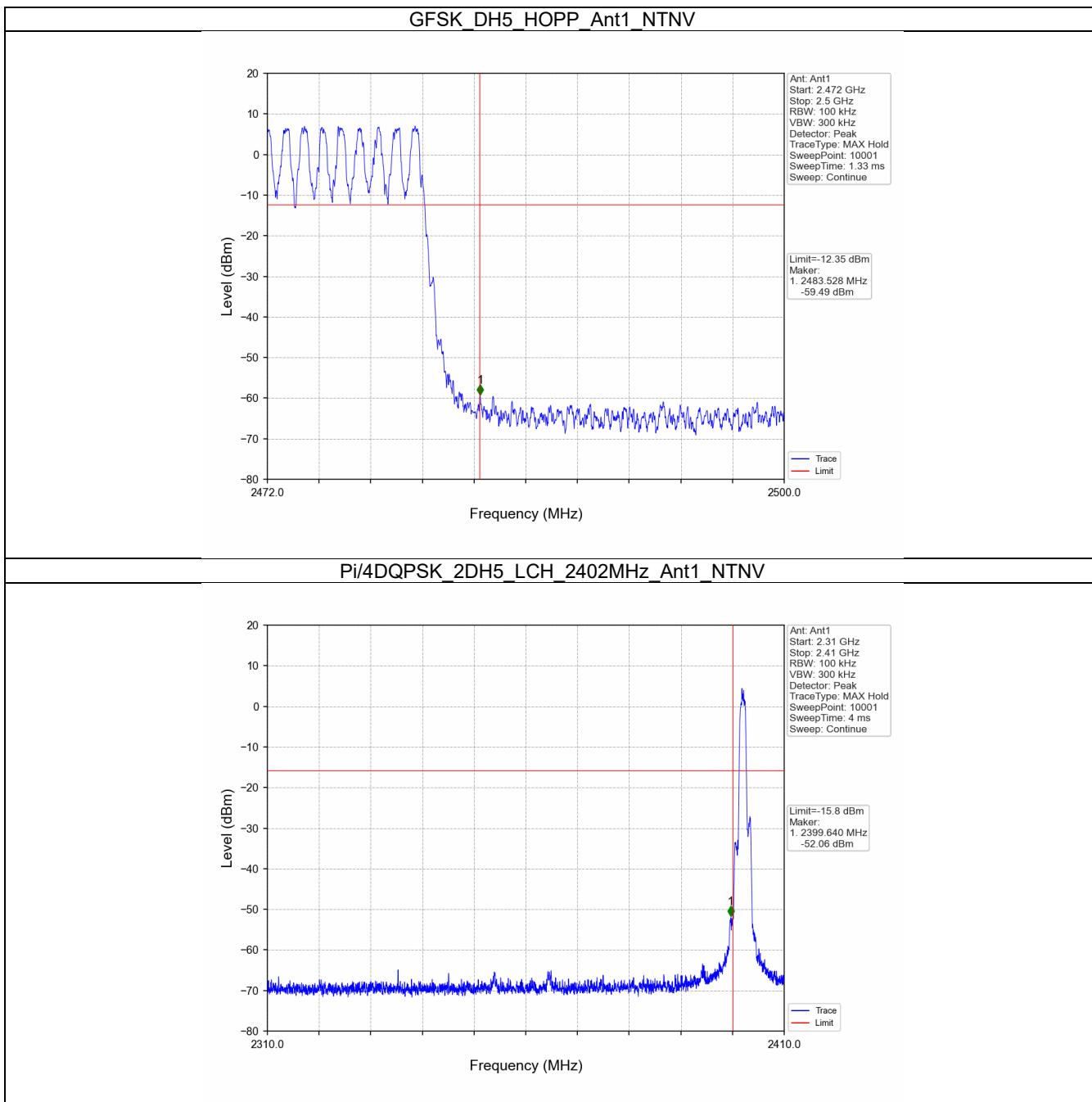
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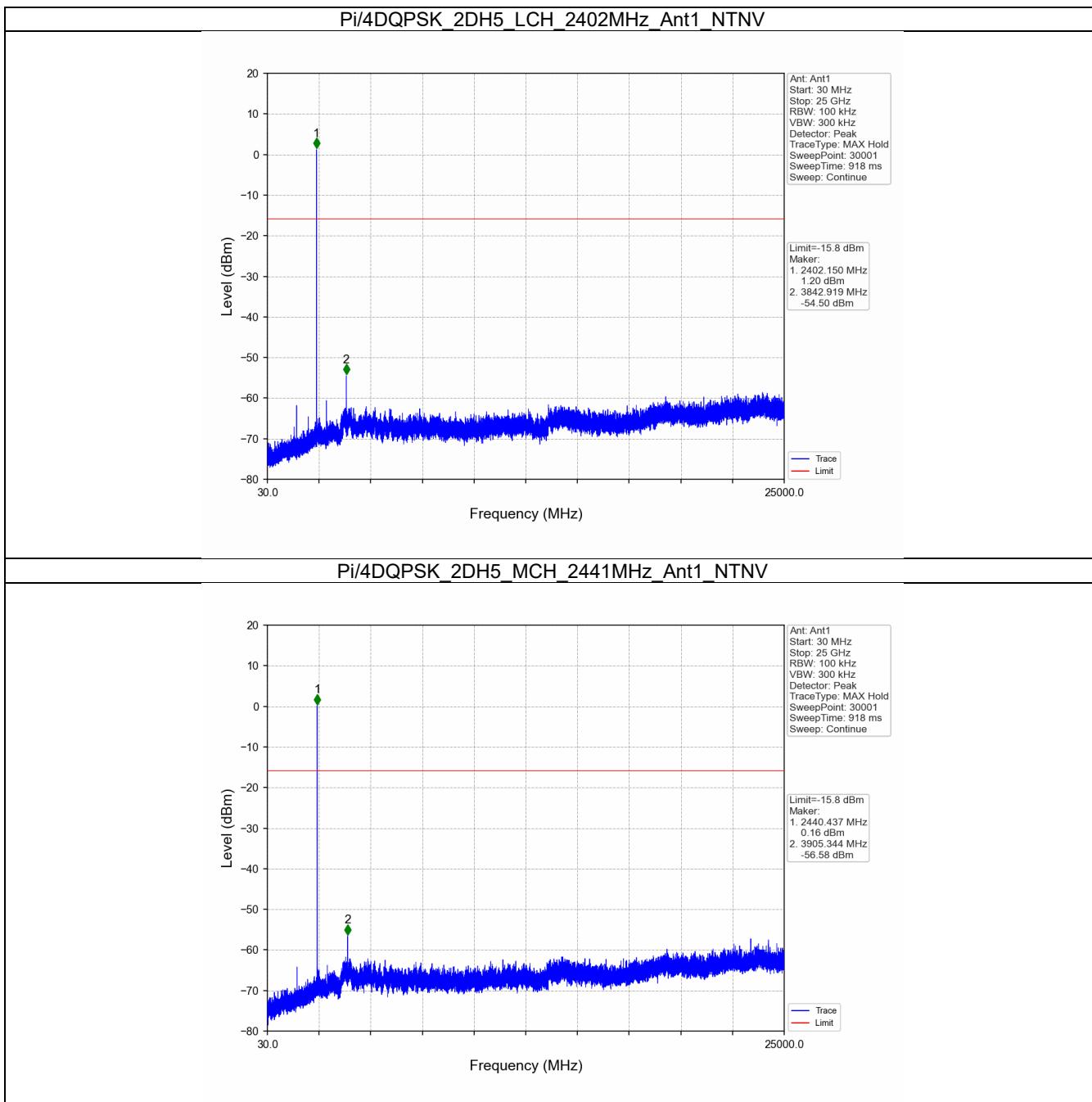
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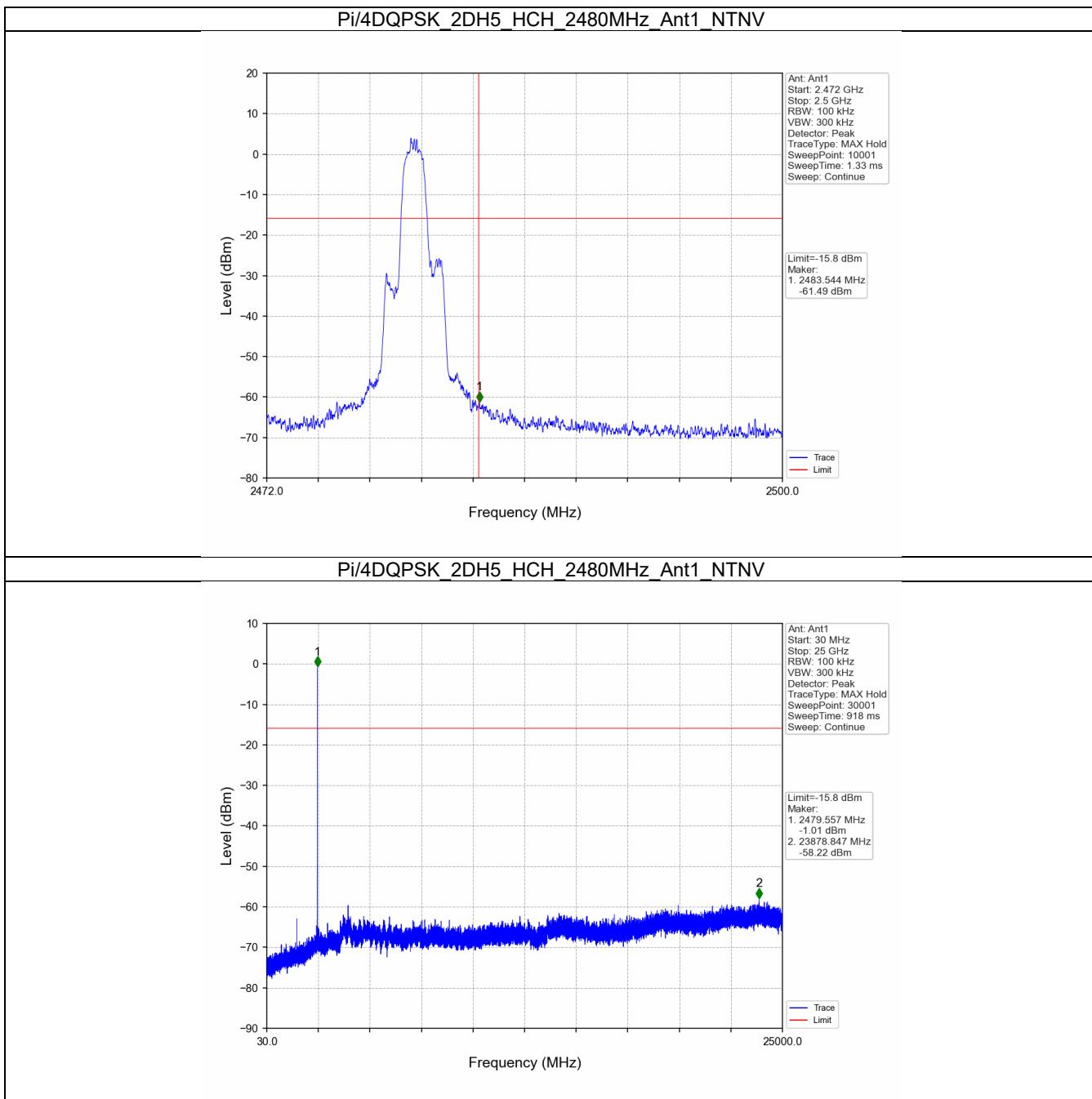
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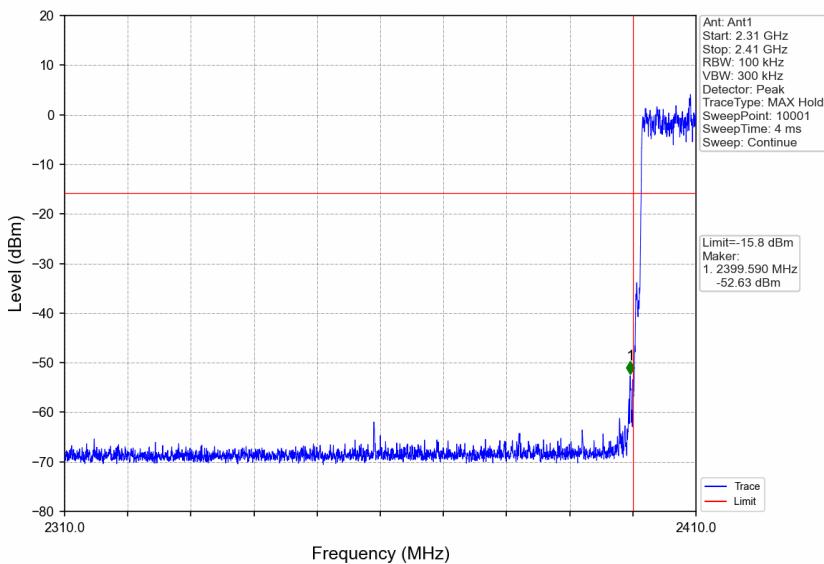
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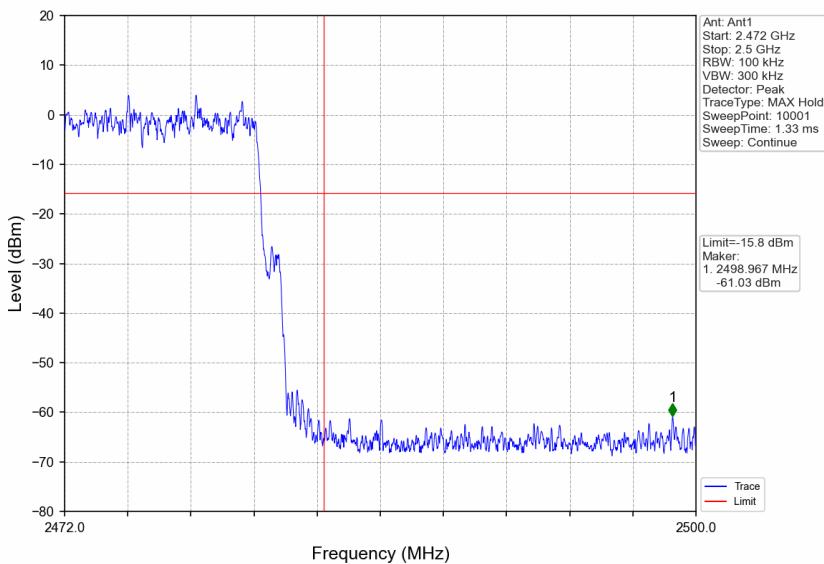
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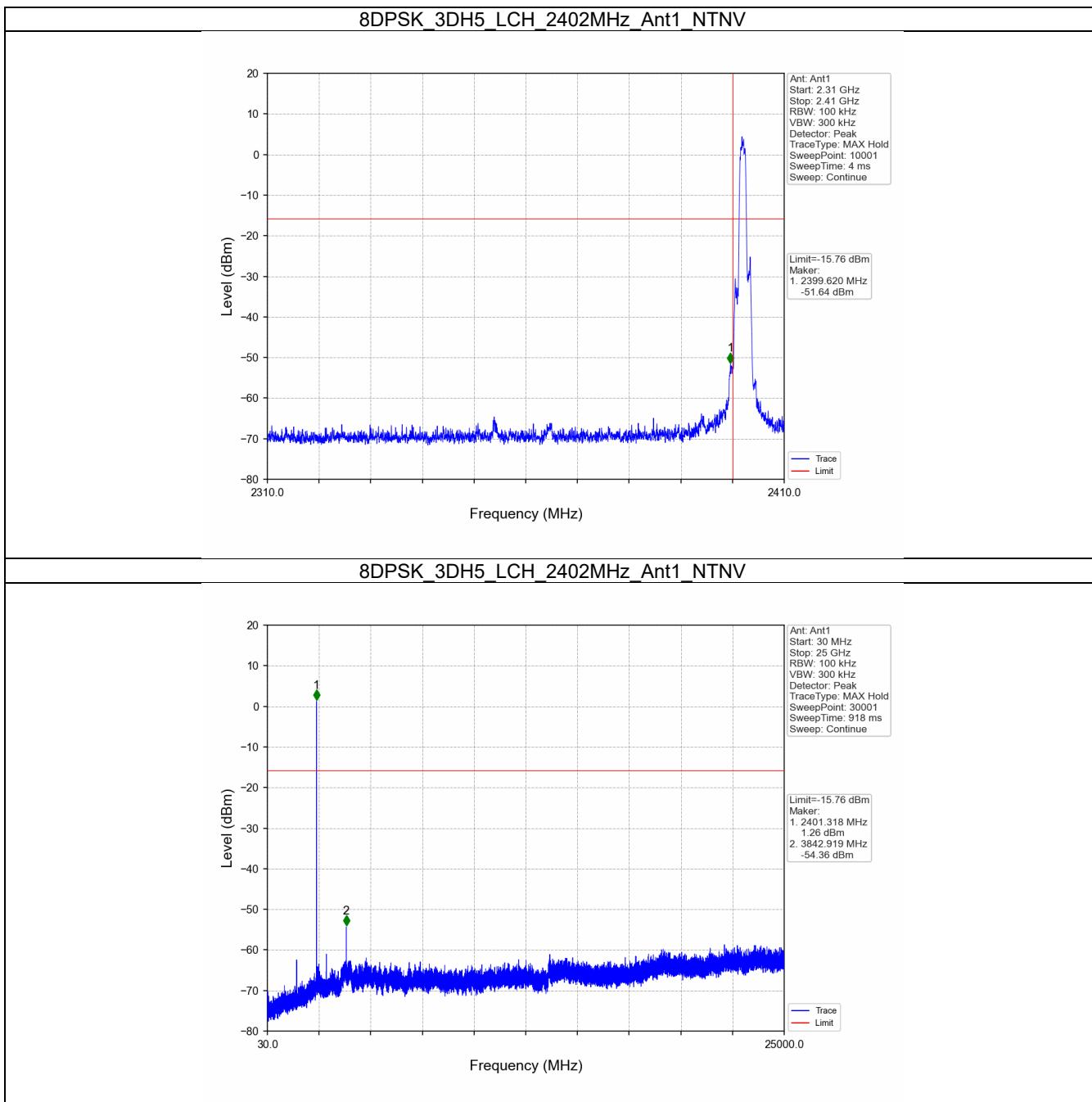
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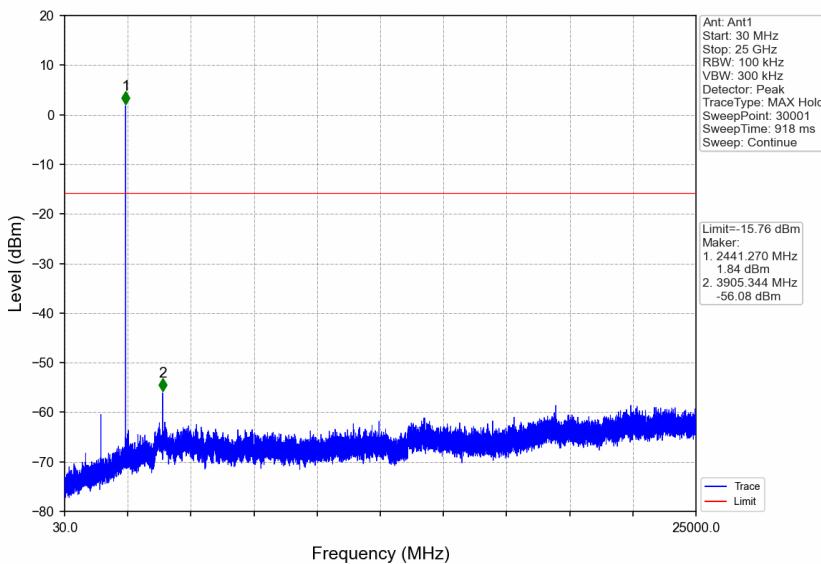
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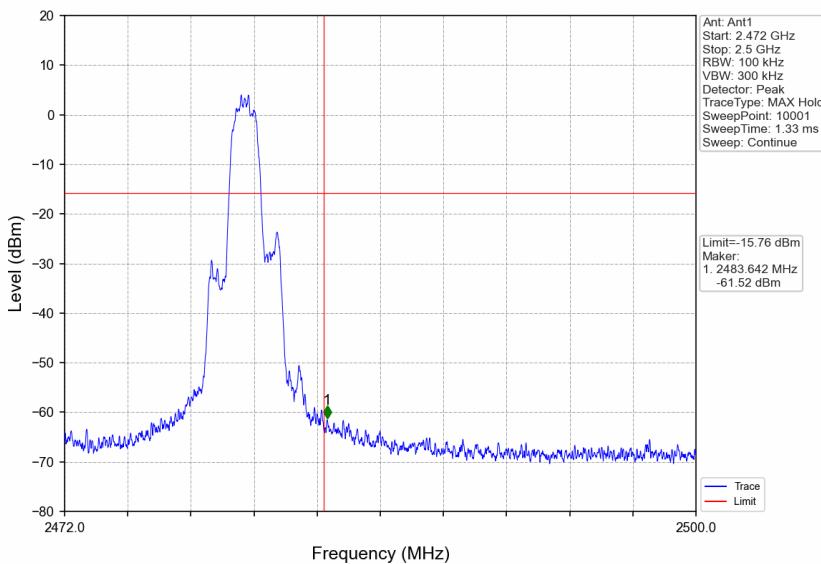


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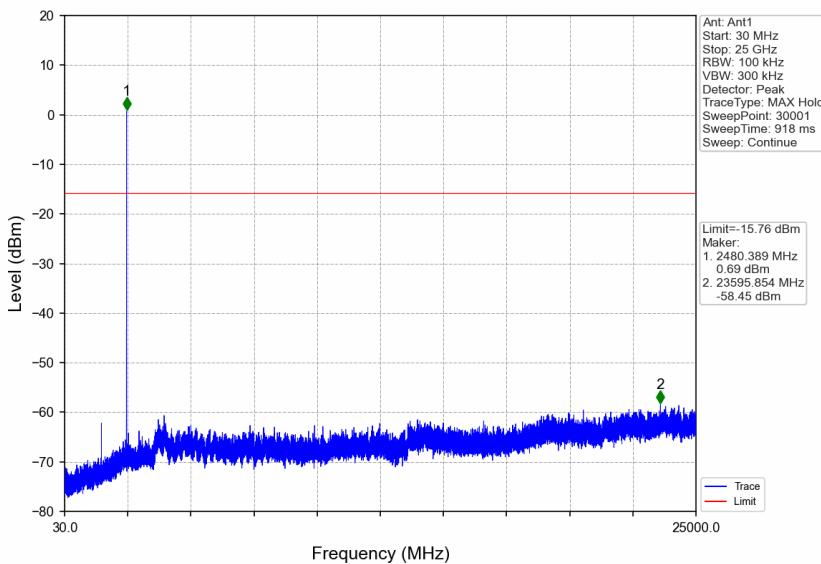


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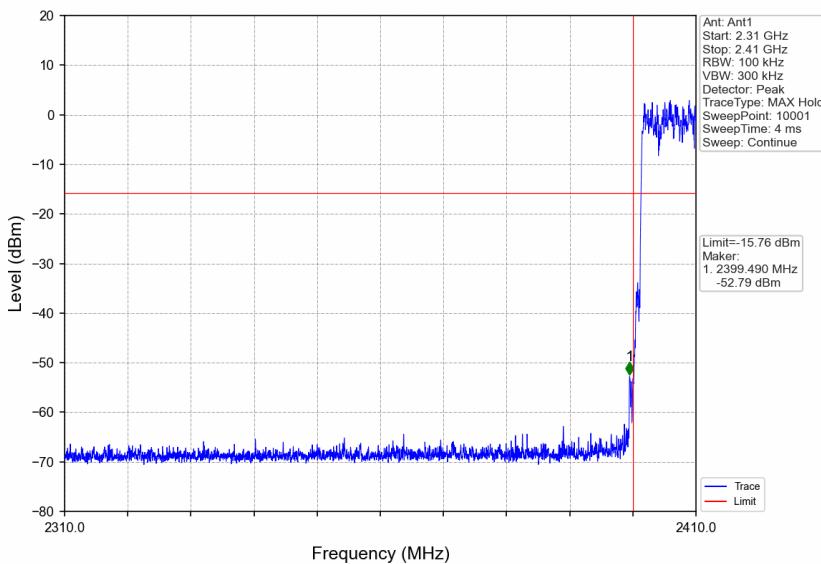
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## 8DPSK\_3DH5\_HCH\_2480MHz\_Ant1\_NTNV



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



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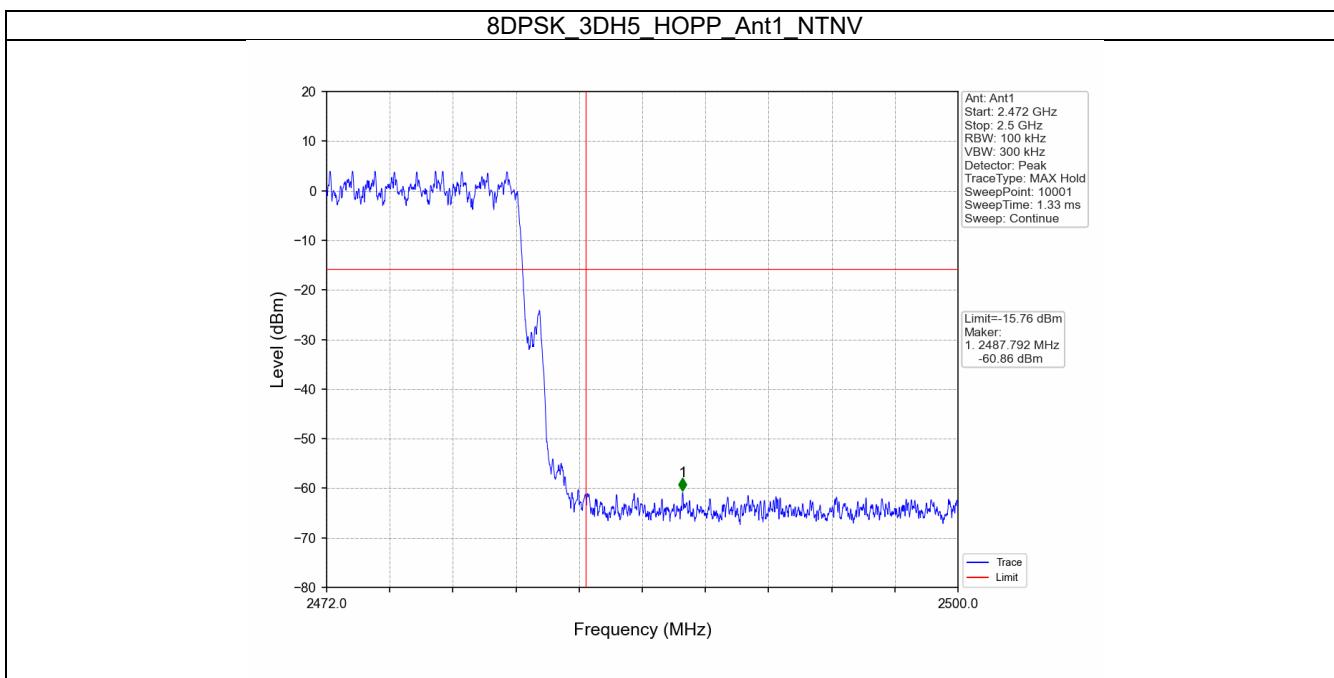
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