

## Appendix for 15.247

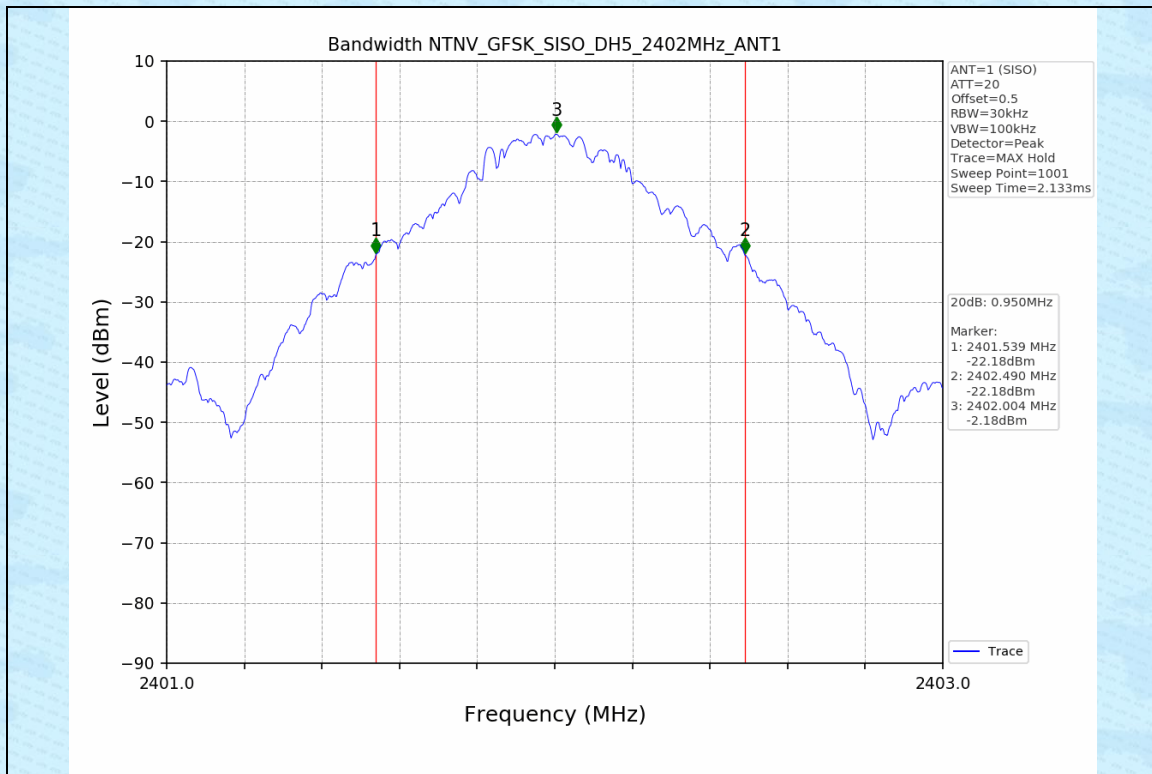
### 1. Bandwidth

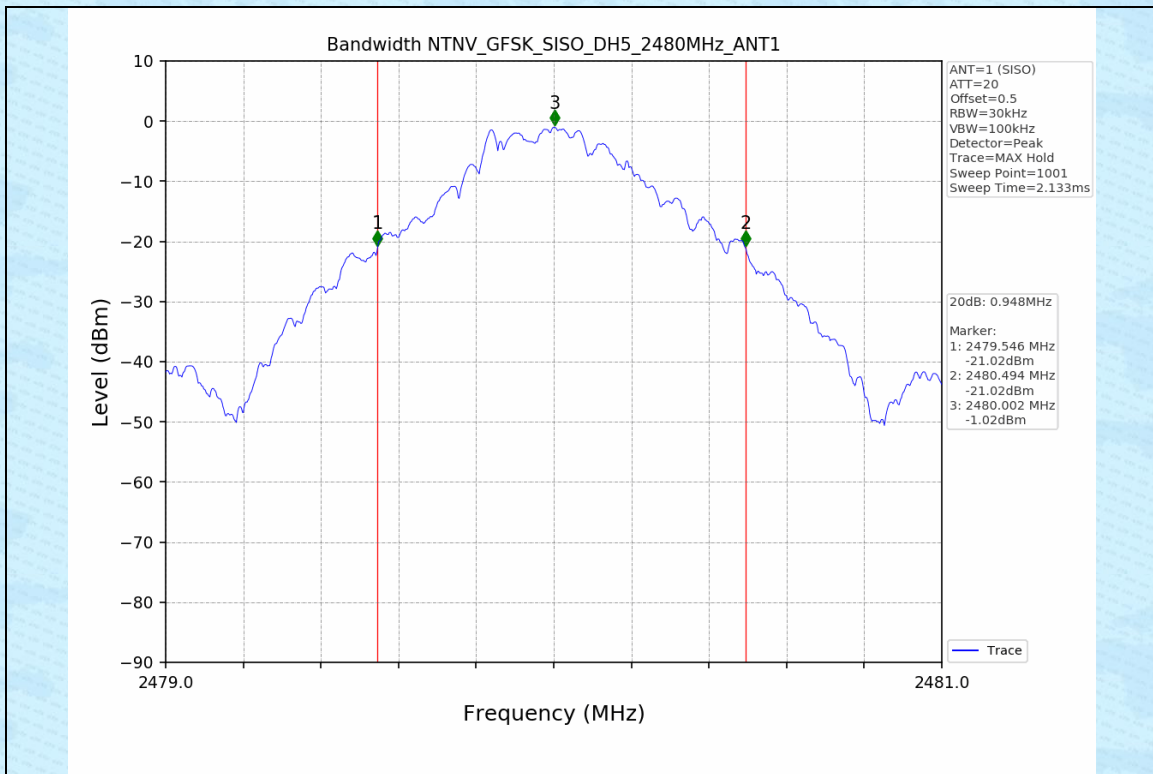
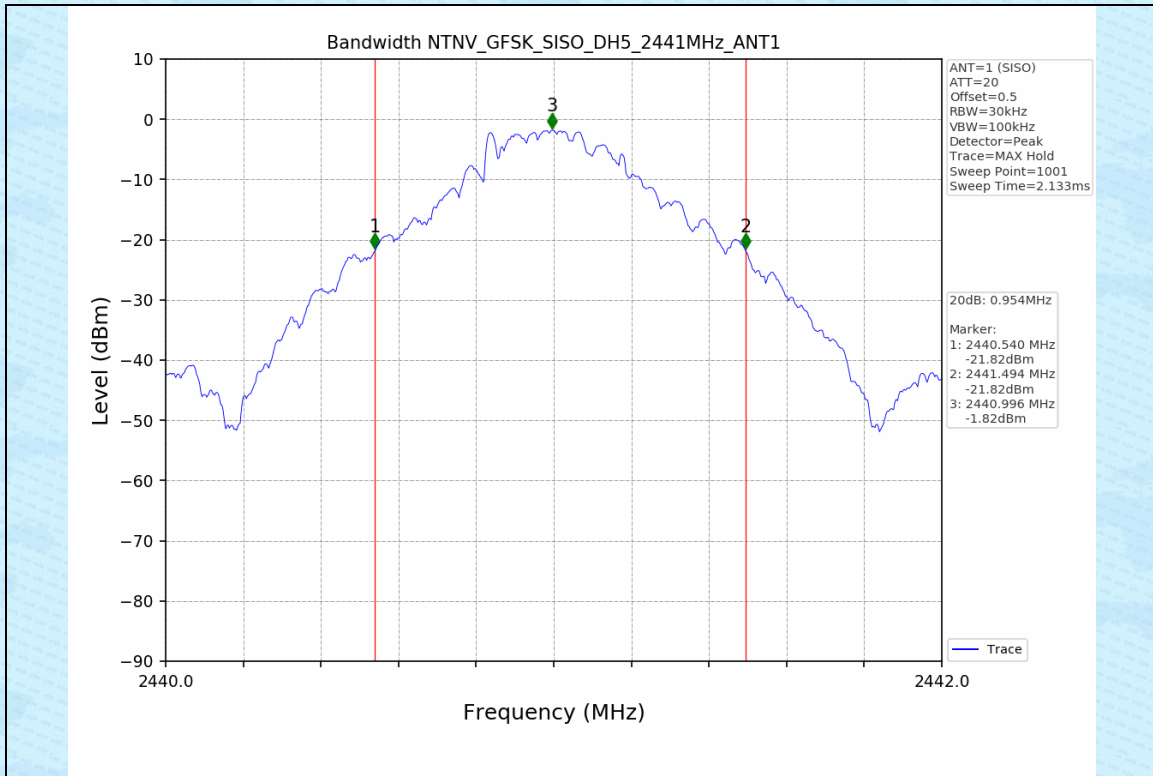
#### 1.1 Test Result

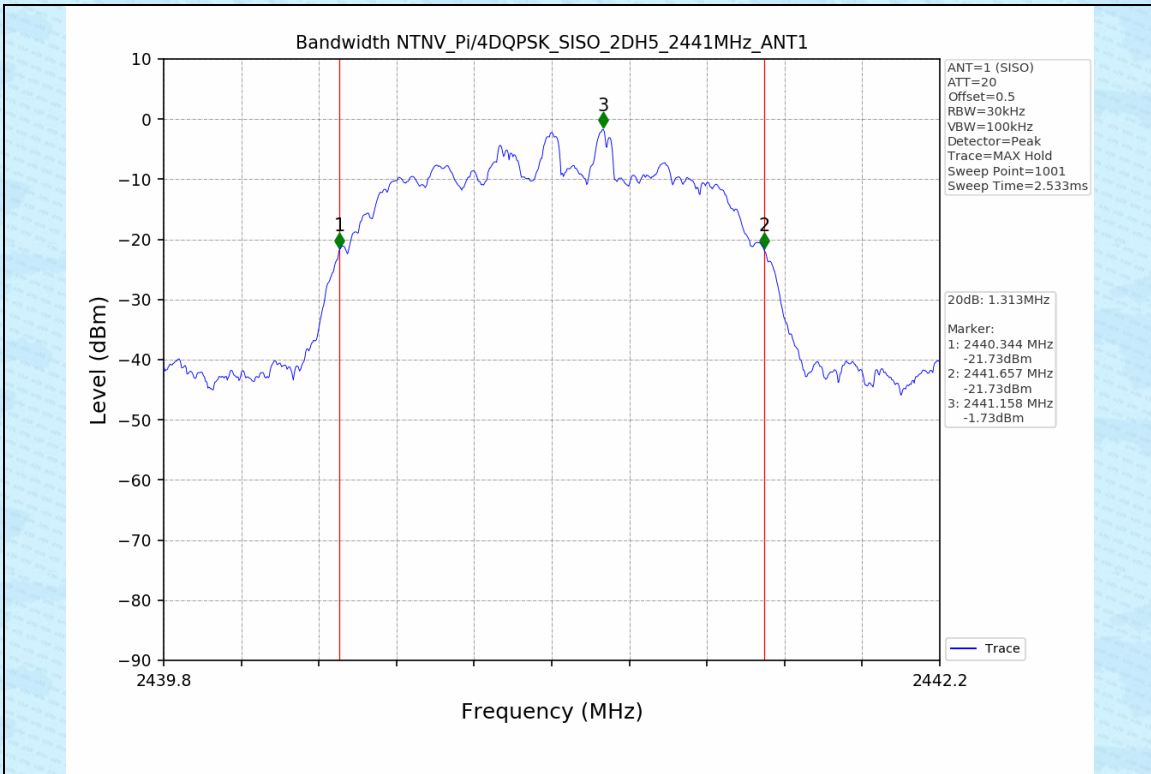
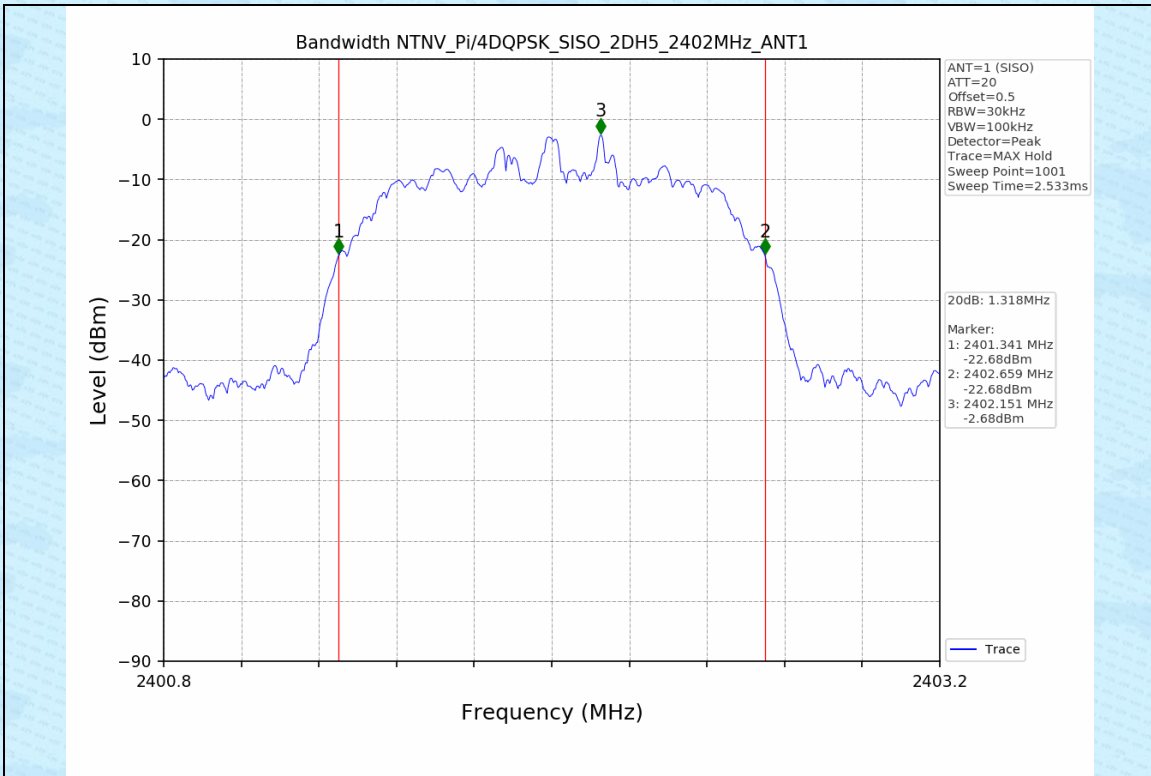
| Test Mode | Frequency (MHz) | TX Type | ANT No. | 20dB Bandwidth    | Verdict |
|-----------|-----------------|---------|---------|-------------------|---------|
|           |                 |         |         | Test Result (MHz) |         |
| GFSK      | 2402            | SISO    | 1       | 0.950             | PASS    |
|           | 2441            | SISO    | 1       | 0.954             | PASS    |
|           | 2480            | SISO    | 1       | 0.948             | PASS    |
| Pi/4DQPSK | 2402            | SISO    | 1       | 1.318             | PASS    |
|           | 2441            | SISO    | 1       | 1.313             | PASS    |
|           | 2480            | SISO    | 1       | 1.309             | PASS    |

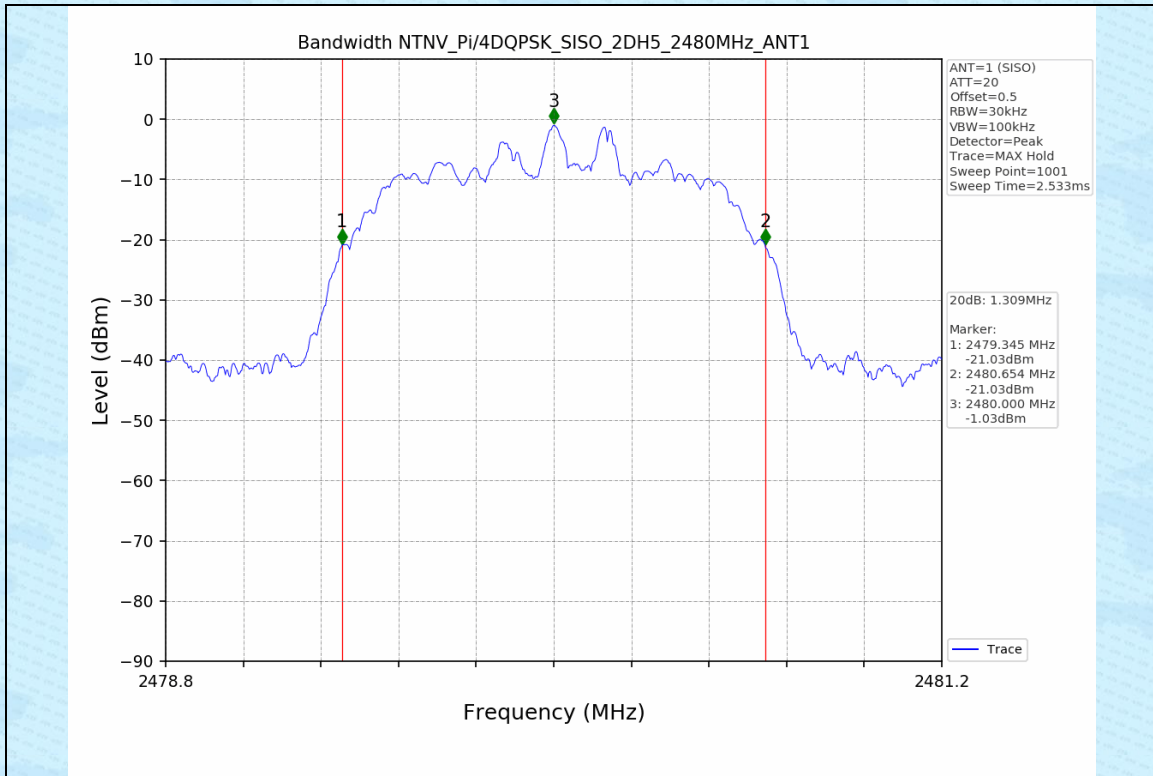
| Test Mode | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth |                     |
|-----------|-----------------|---------|---------|------------------------|---------------------|
|           |                 |         |         | Test Result (MHz)      |                     |
| GFSK      | 2402            | SISO    | 1       | 0.843                  | Only for Report Use |
|           | 2441            | SISO    | 1       | 0.841                  | Only for Report Use |
|           | 2480            | SISO    | 1       | 0.848                  | Only for Report Use |
| Pi/4DQPSK | 2402            | SISO    | 1       | 1.177                  | Only for Report Use |
|           | 2441            | SISO    | 1       | 1.173                  | Only for Report Use |
|           | 2480            | SISO    | 1       | 1.179                  | Only for Report Use |

#### 1.2 Test Graph - 20dB Bandwidth

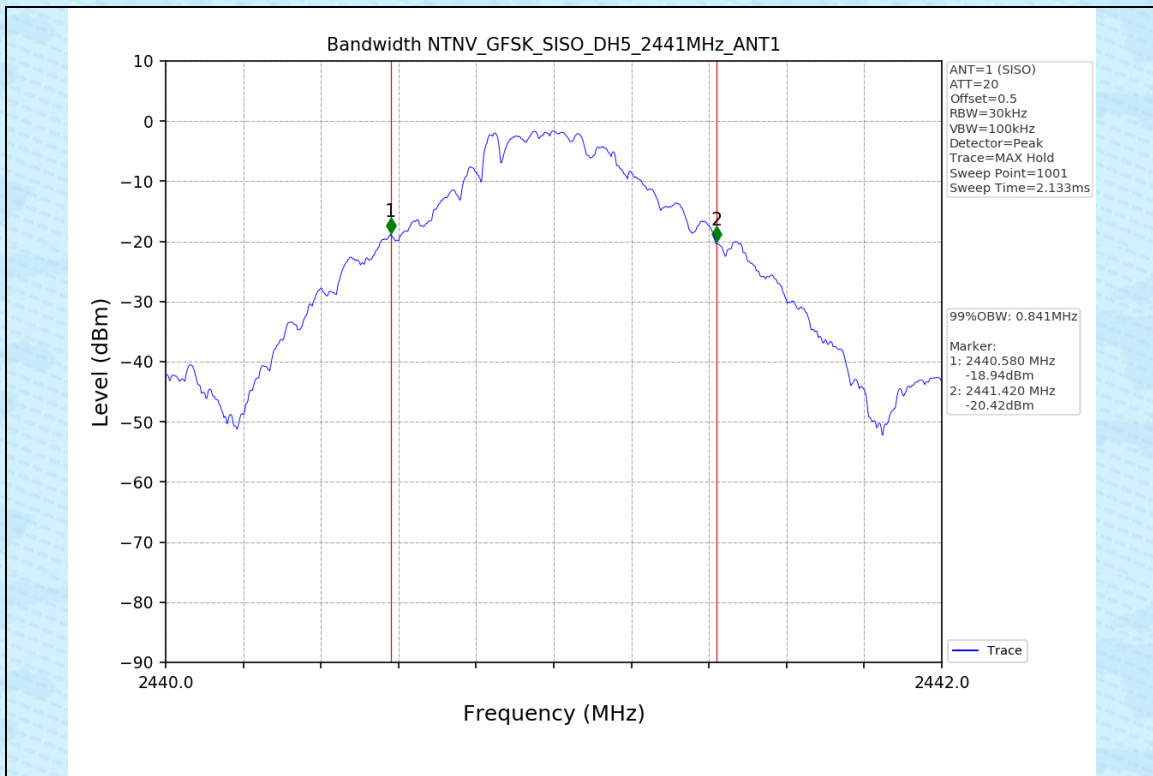
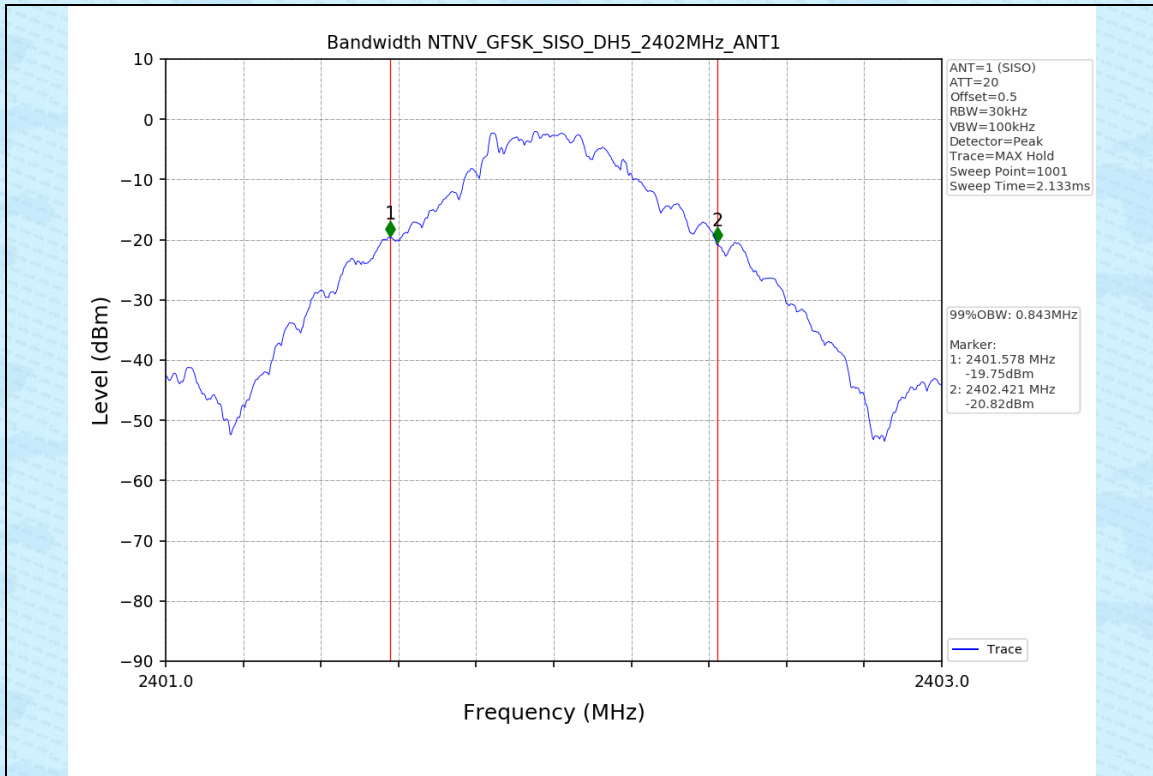


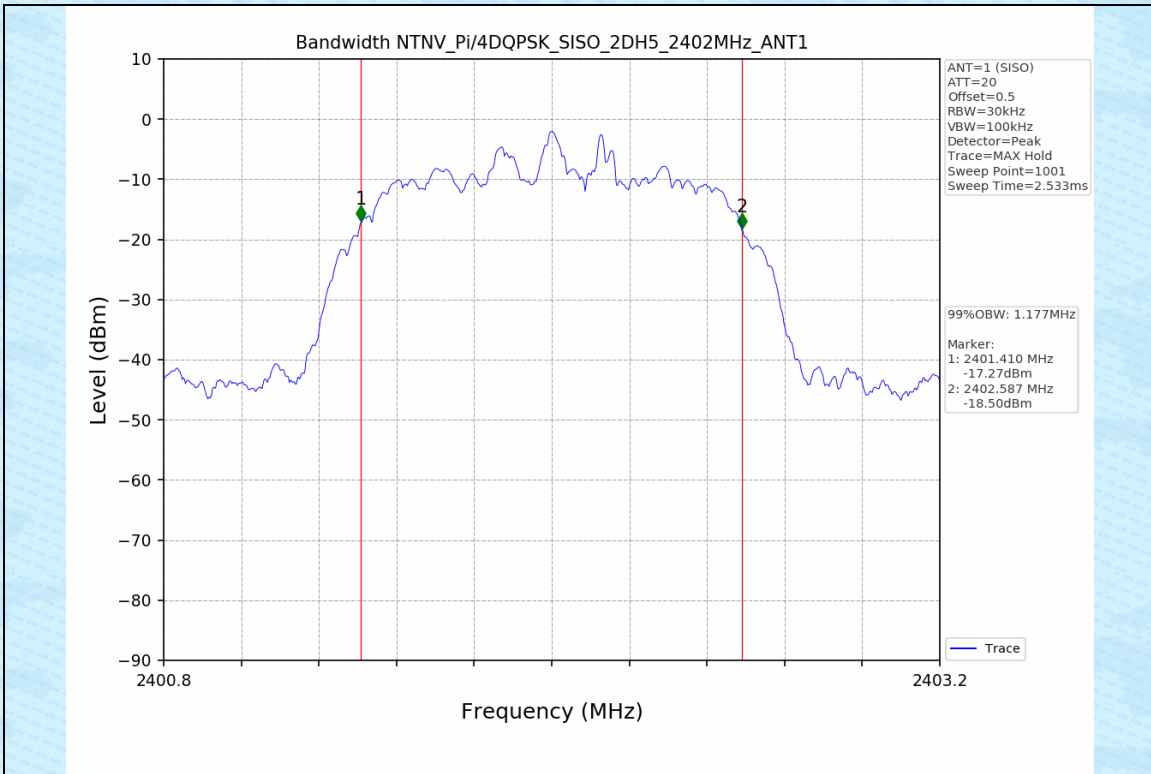
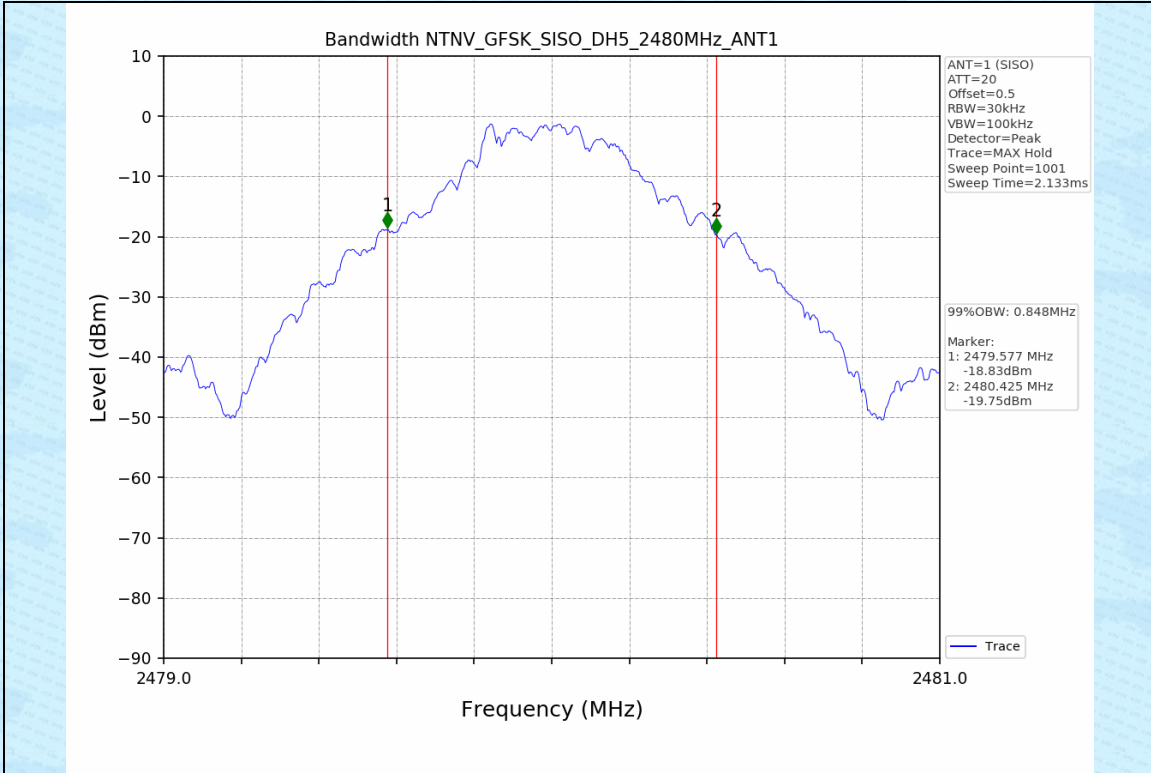


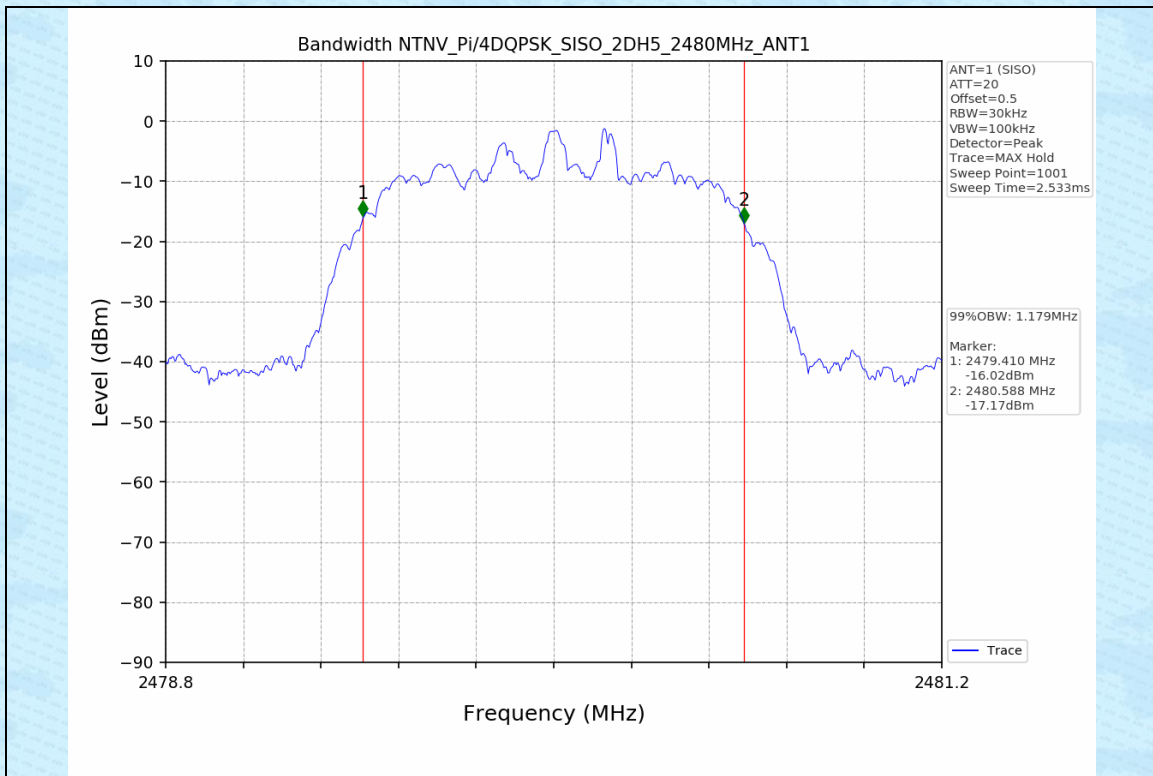
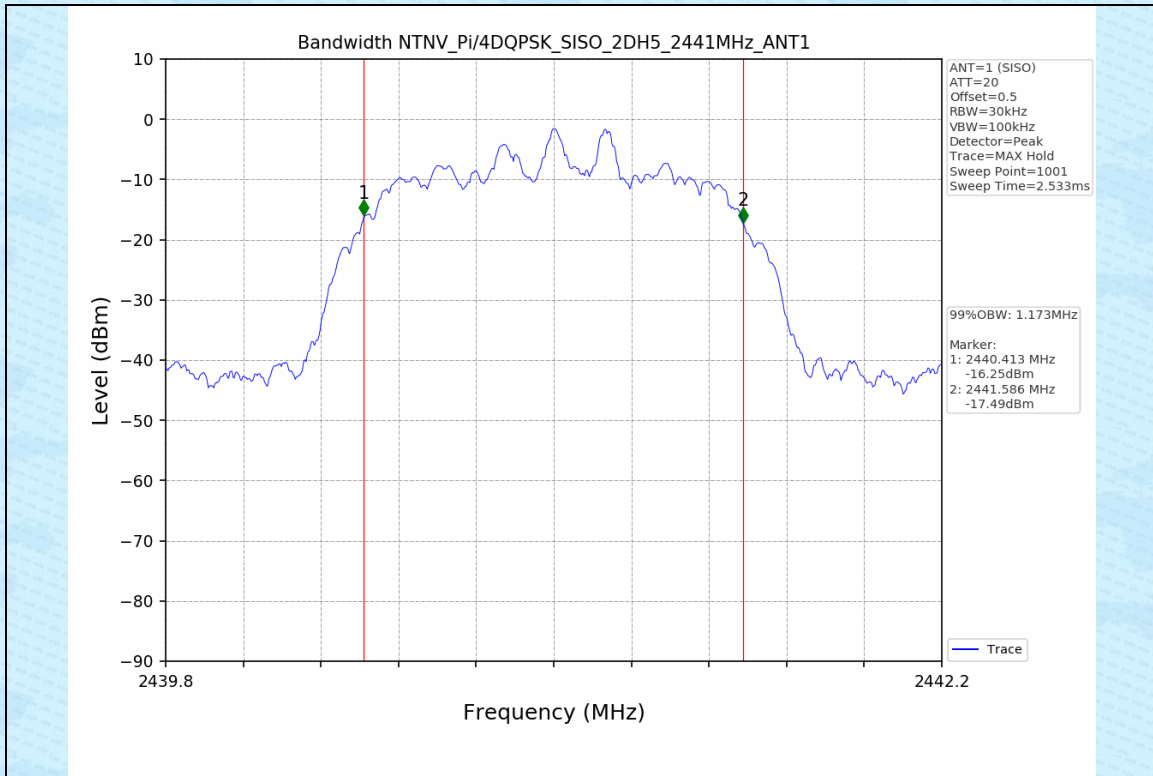




### 1.3 Test Graph - 99% Occupied Bandwidth





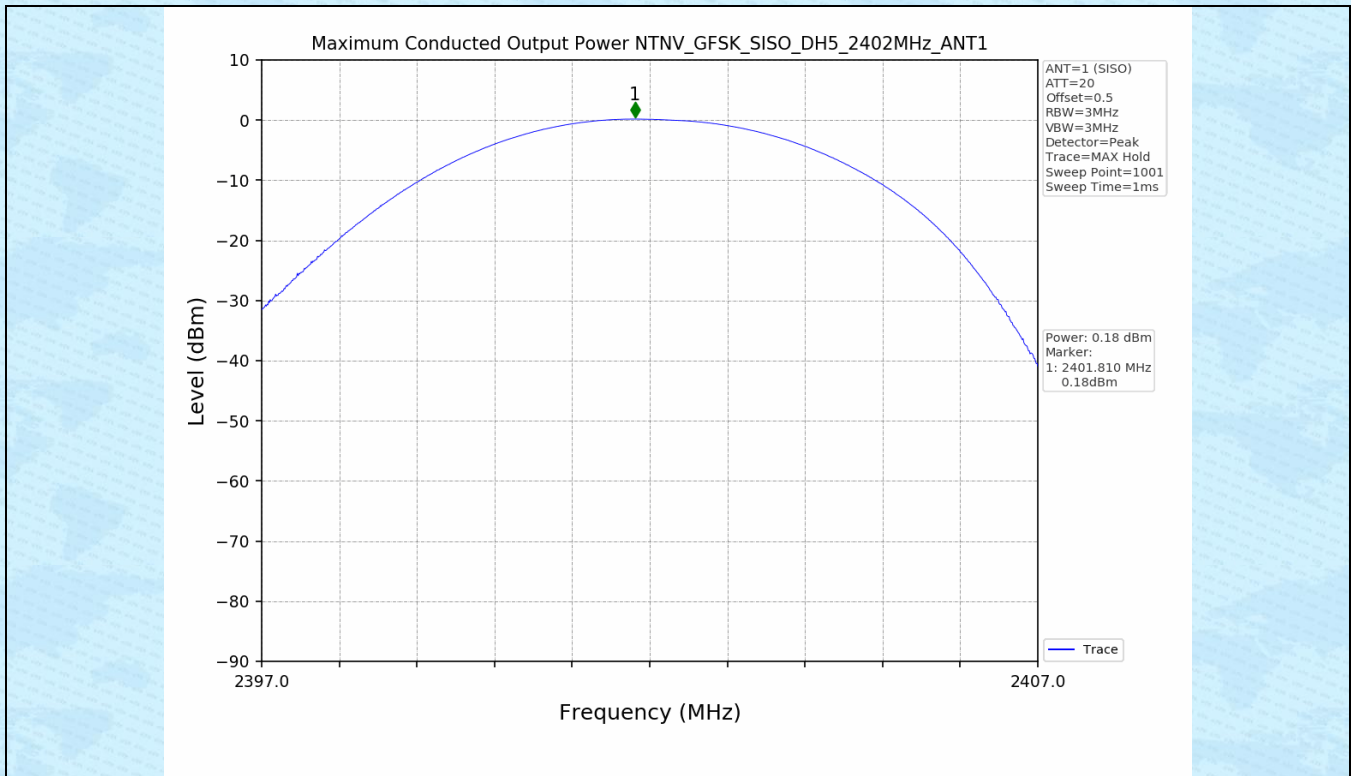


## 2. Maximum Conducted Output Power

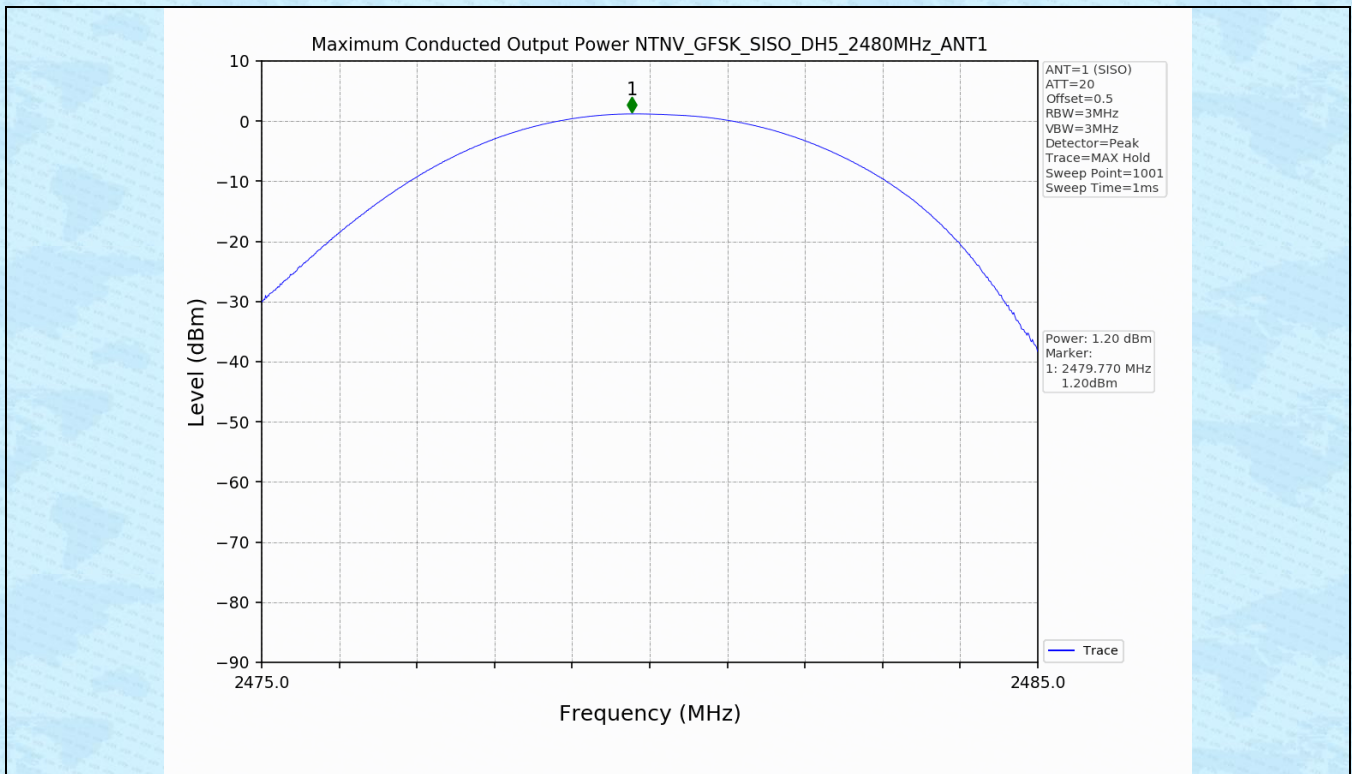
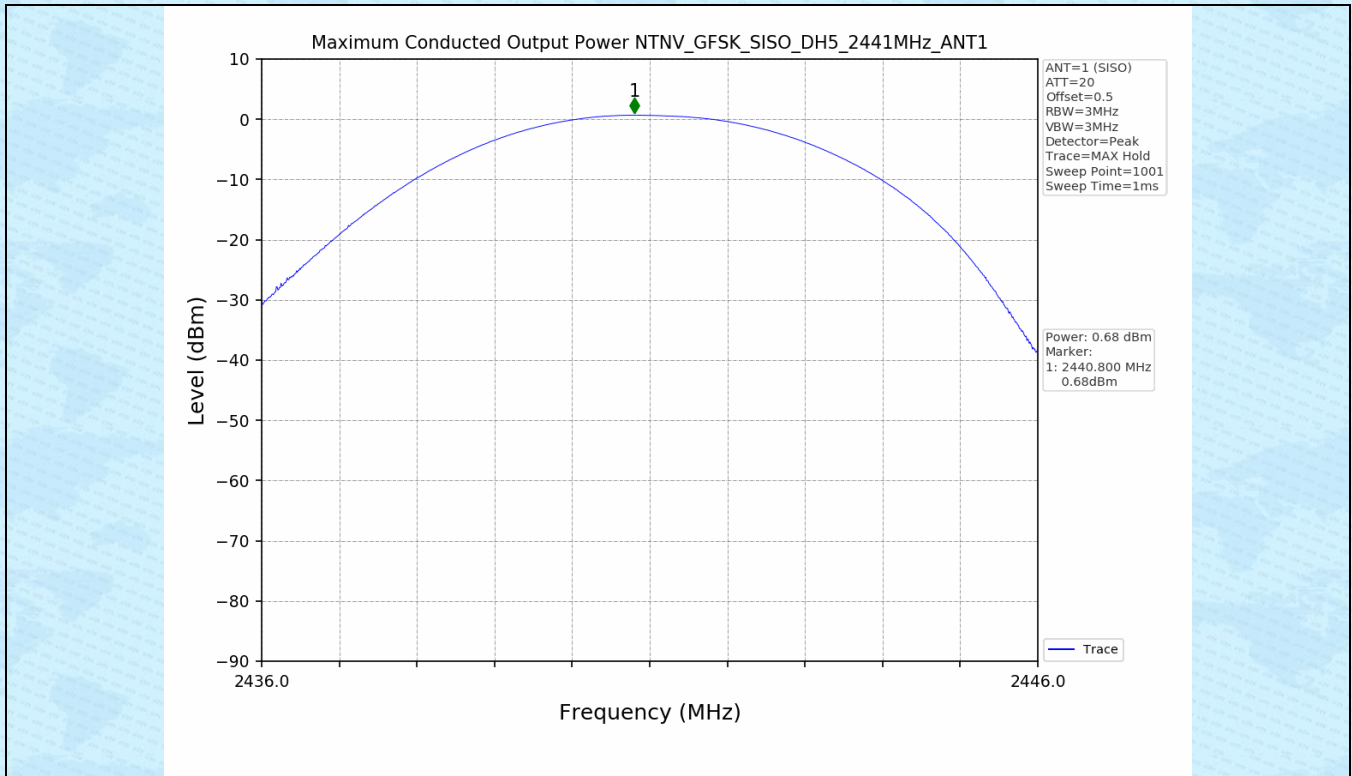
### 2.1 Test Result

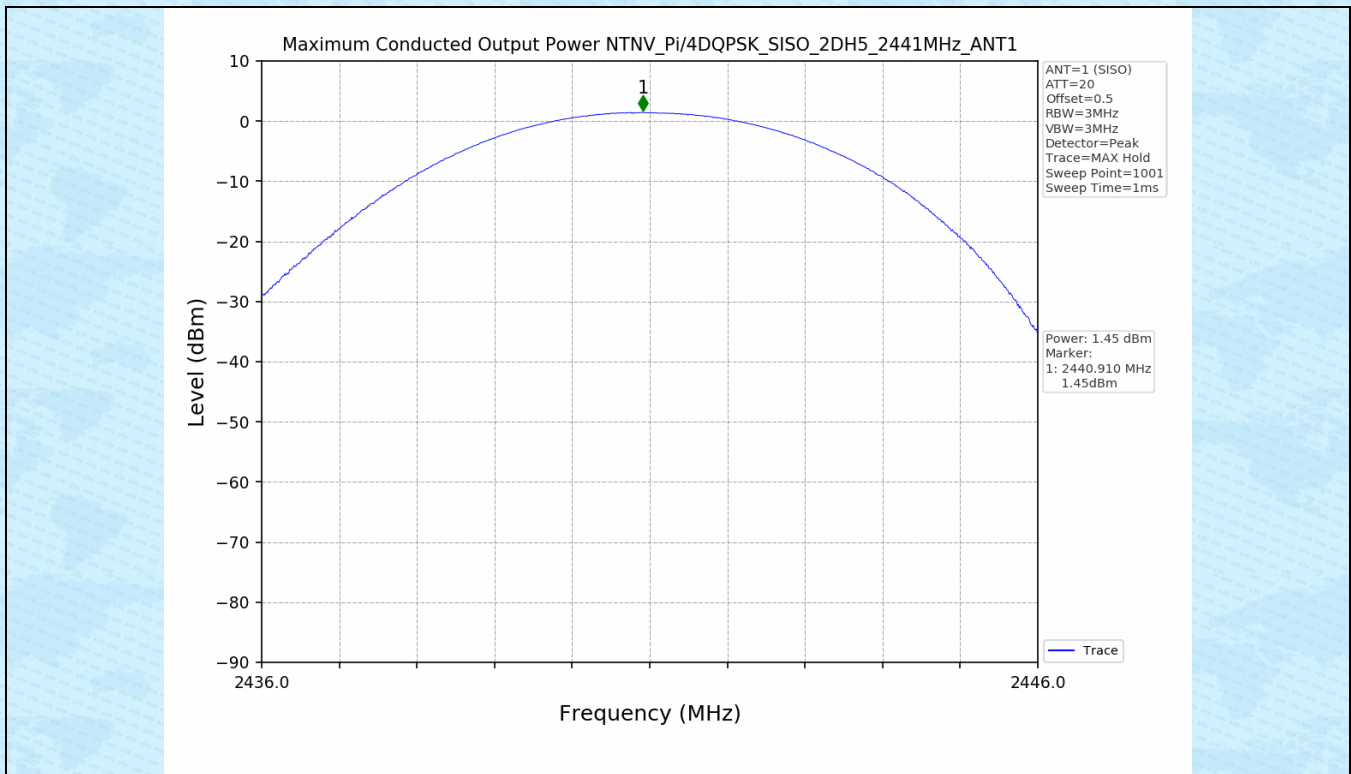
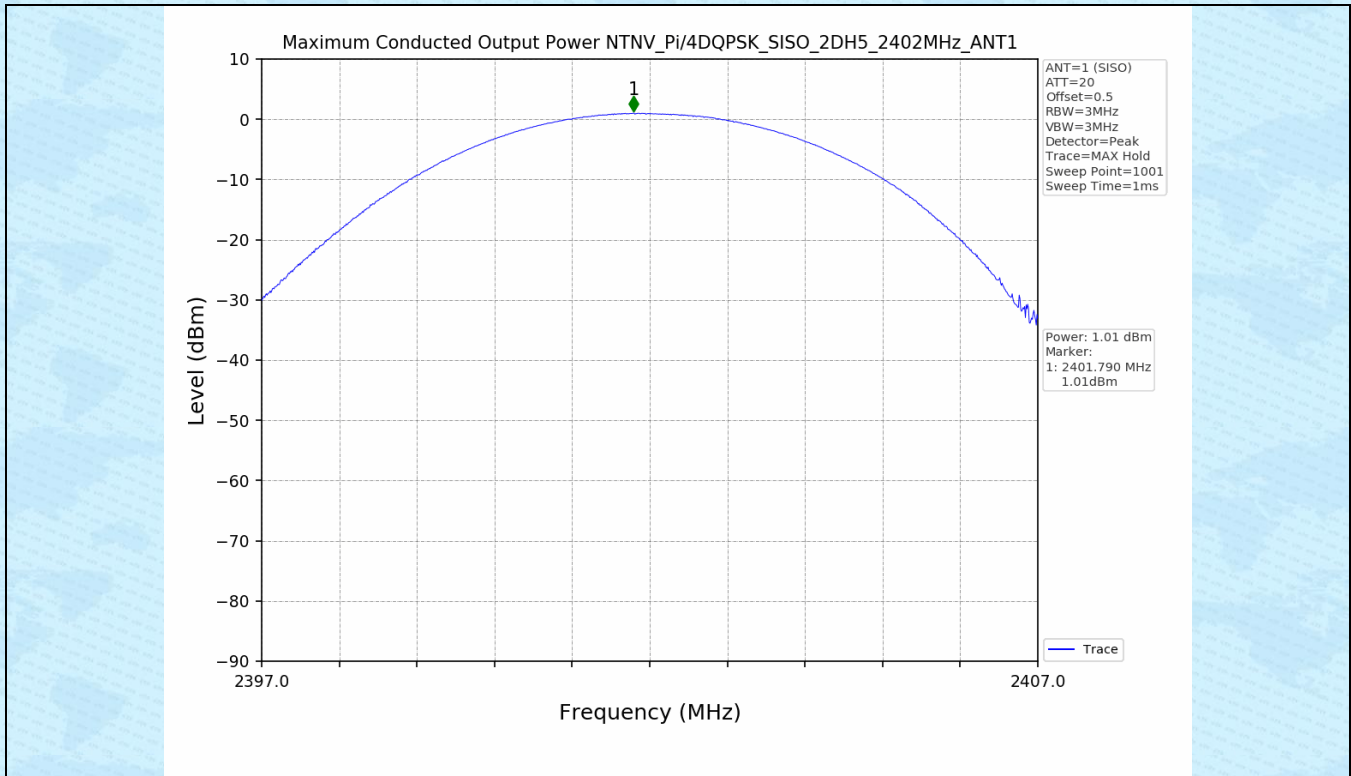
| Test Mode | Frequency (MHz) | Tx Type | Measured Peak Output Power (dBm) | Limits (dBm) | Verdict |
|-----------|-----------------|---------|----------------------------------|--------------|---------|
|           |                 |         | Ant 1                            |              |         |
| GFSK      | 2402            | SISO    | 0.18                             | 30           | PASS    |
|           | 2441            | SISO    | 0.68                             | 30           | PASS    |
|           | 2480            | SISO    | 1.20                             | 30           | PASS    |
| Pi/4DQPSK | 2402            | SISO    | 1.01                             | 20.97        | PASS    |
|           | 2441            | SISO    | 1.45                             | 20.97        | PASS    |
|           | 2480            | SISO    | 1.99                             | 20.97        | PASS    |

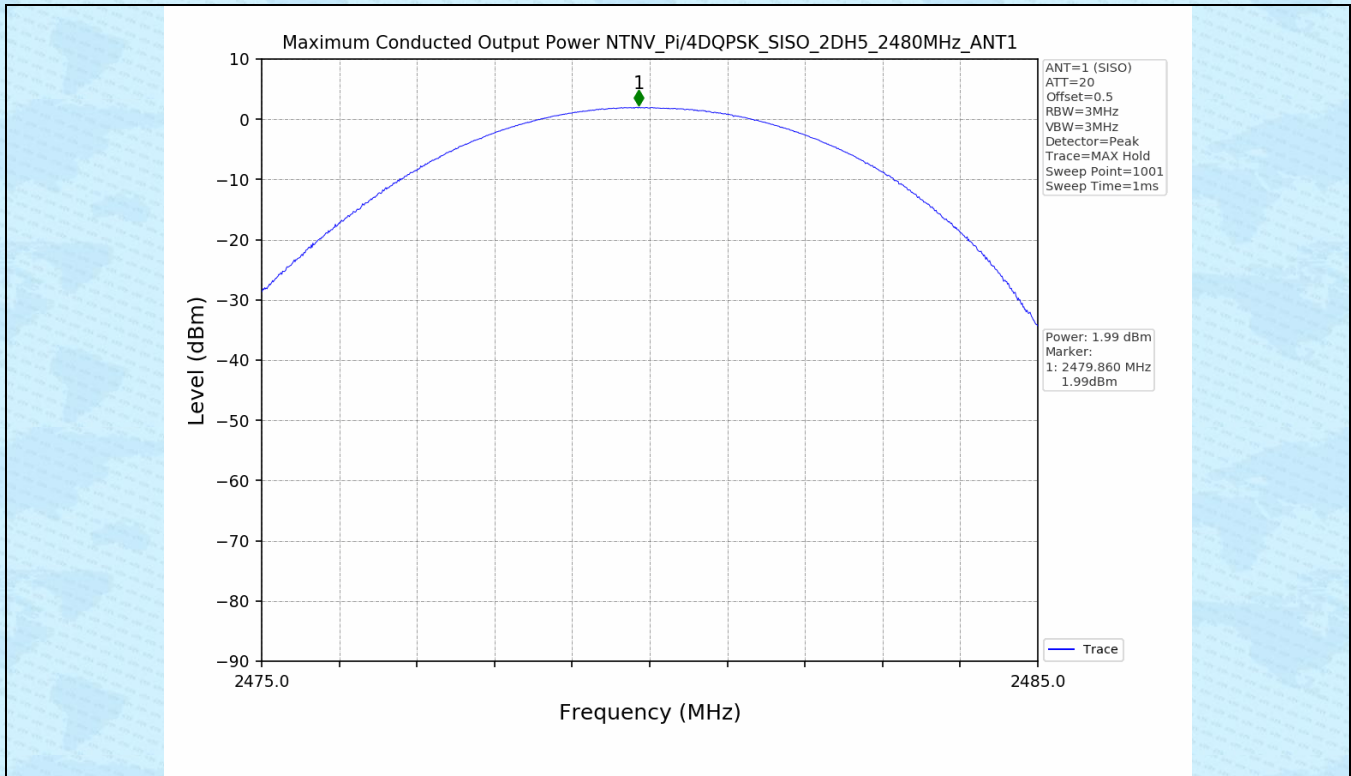
### 2.2 Test Graph









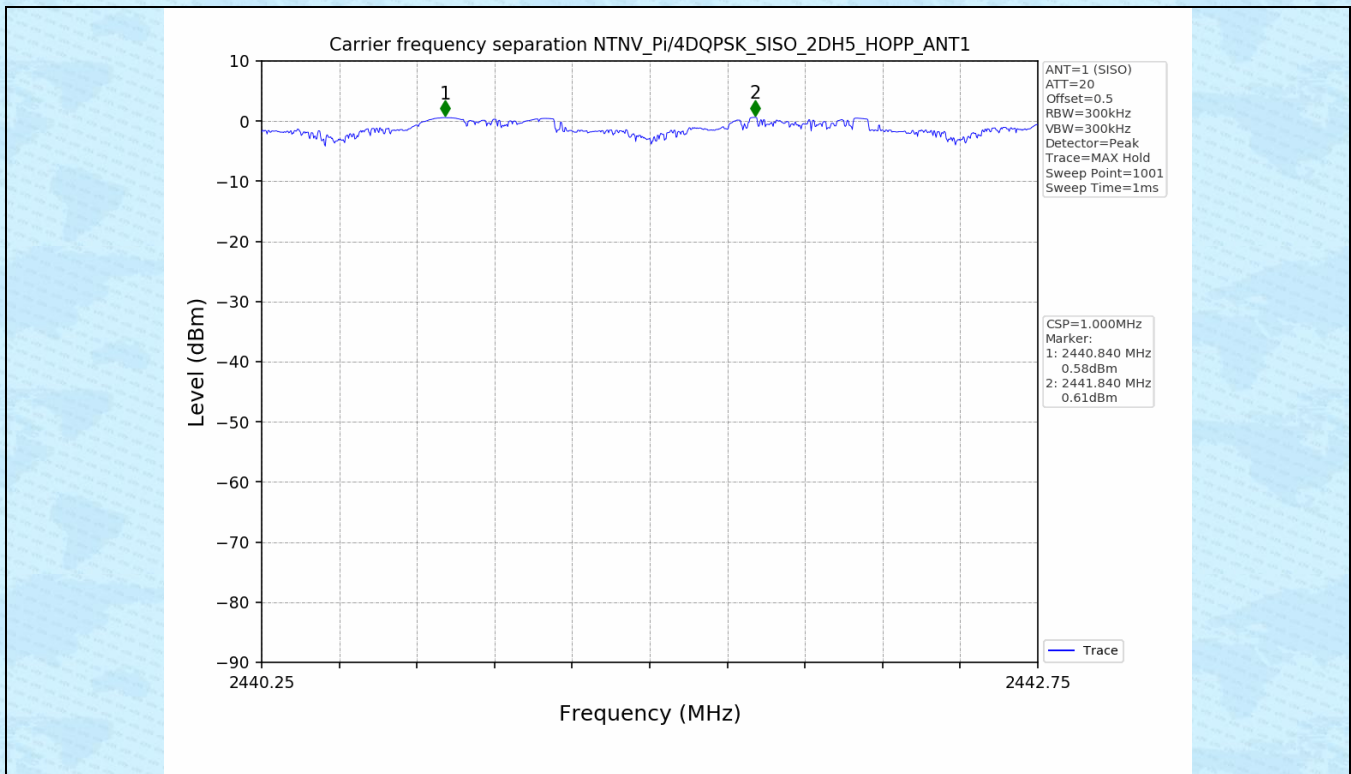
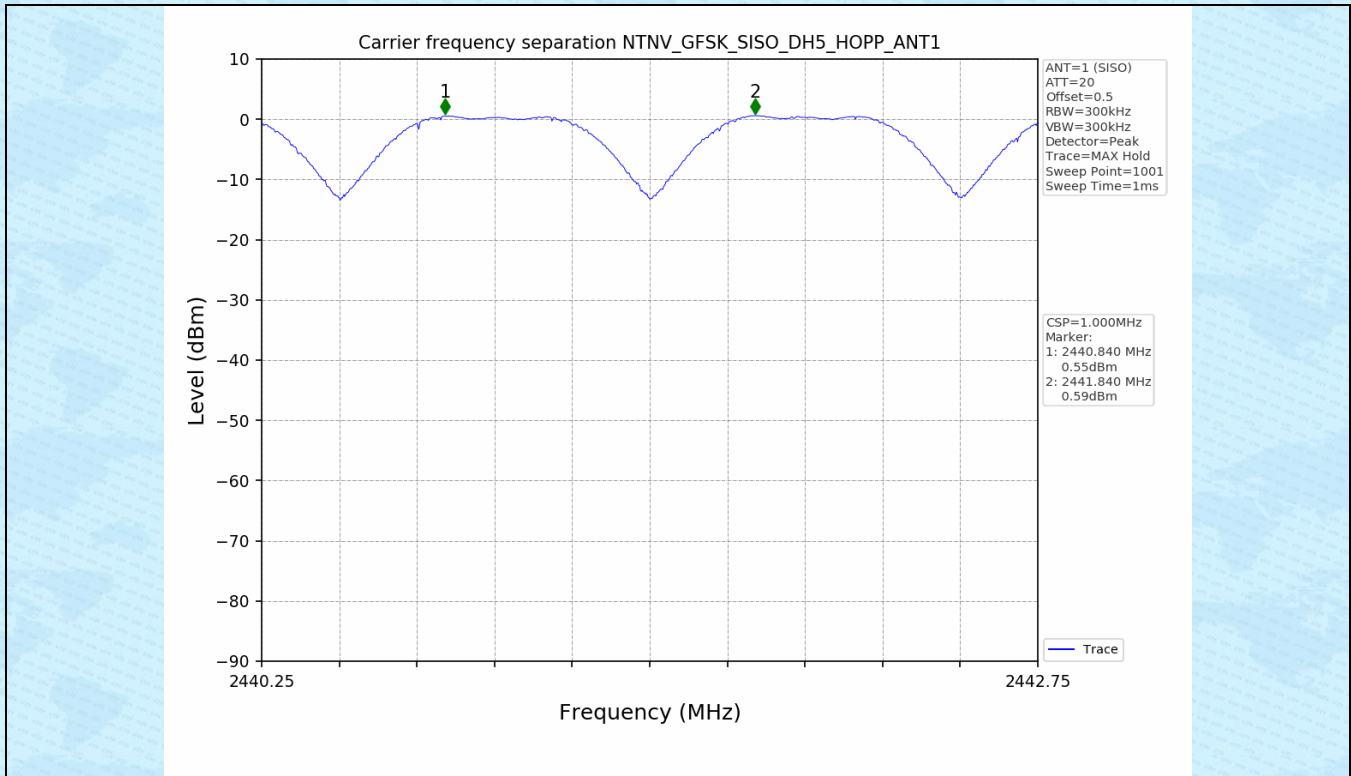


### 3. Carrier frequency separation

#### 3.1 Test Result

| Test Mode | TX Type | ANT No. | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limits (MHz) | Verdict |
|-----------|---------|---------|--------------------------|----------------------|--------------|---------|
| GFSK      | SISO    | 1       | 1.000                    | 0.954                | ≥0.954       | PASS    |
| Pi/4DQPSK | SISO    | 1       | 1.000                    | 1.318                | ≥0.879       | PASS    |

#### 3.2 Test Graph

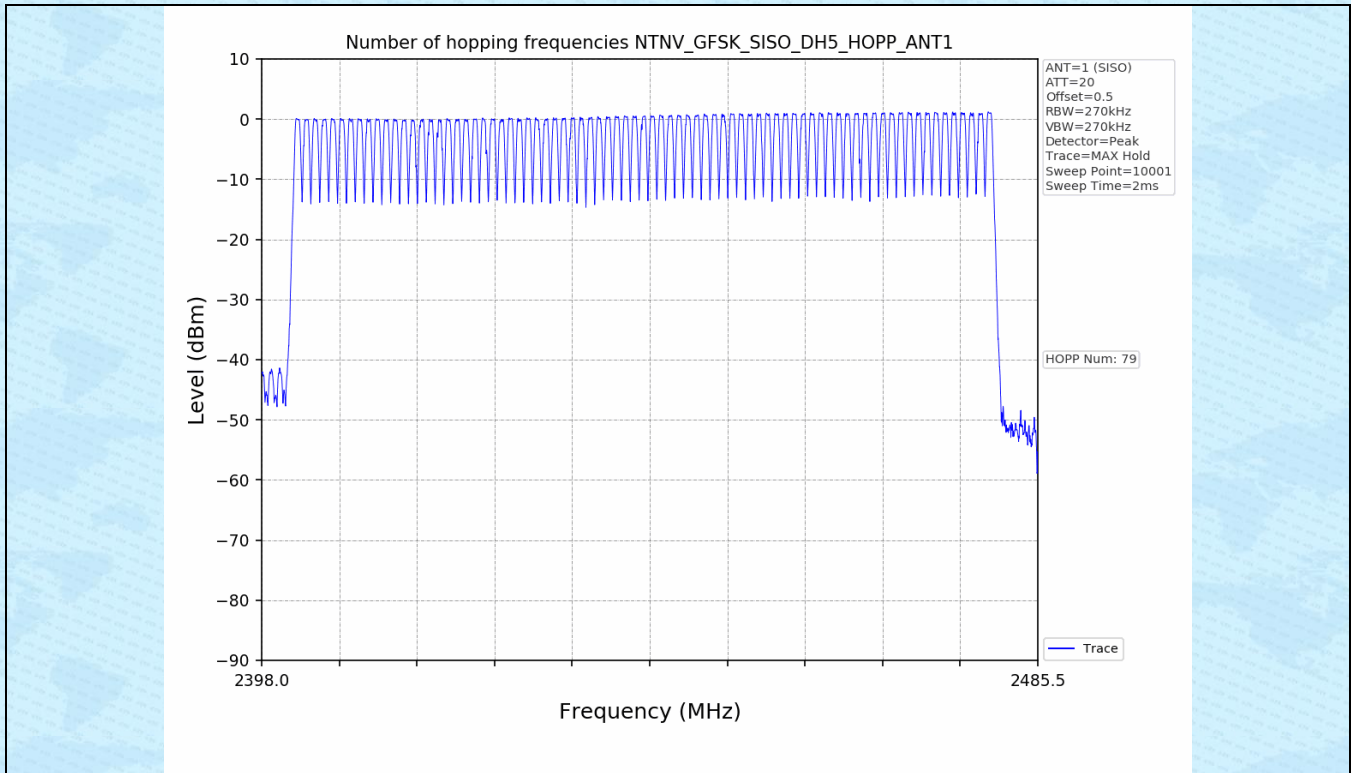


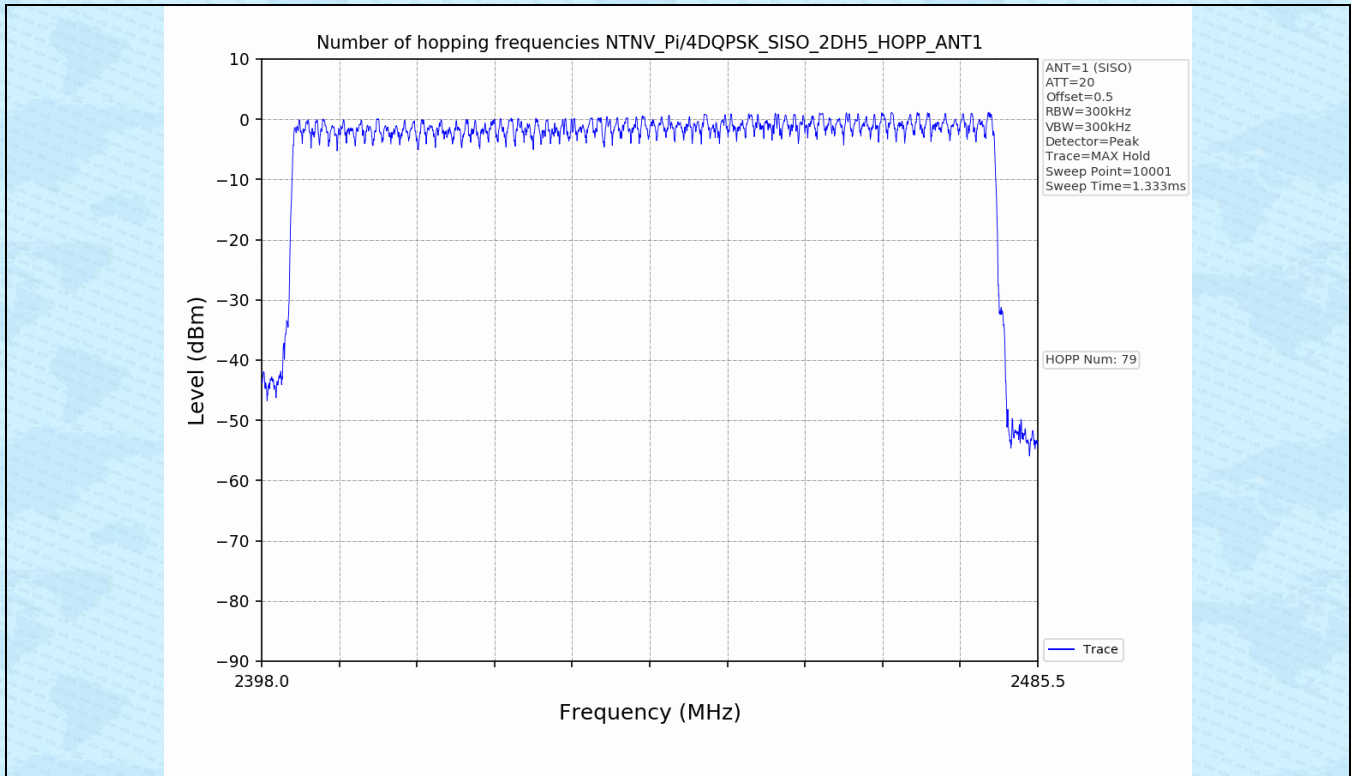
## 4. Number of hopping frequencies

### 4.1 Test Result

| Test Mode | TX Type | ANT No. | Num of Hopping Frequencies | Limits | Verdict |
|-----------|---------|---------|----------------------------|--------|---------|
| GFSK      | SISO    | 1       | 79                         | ≥15    | PASS    |
| Pi/4DQPSK | SISO    | 1       | 79                         | ≥15    | PASS    |

### 4.2 Test Graph



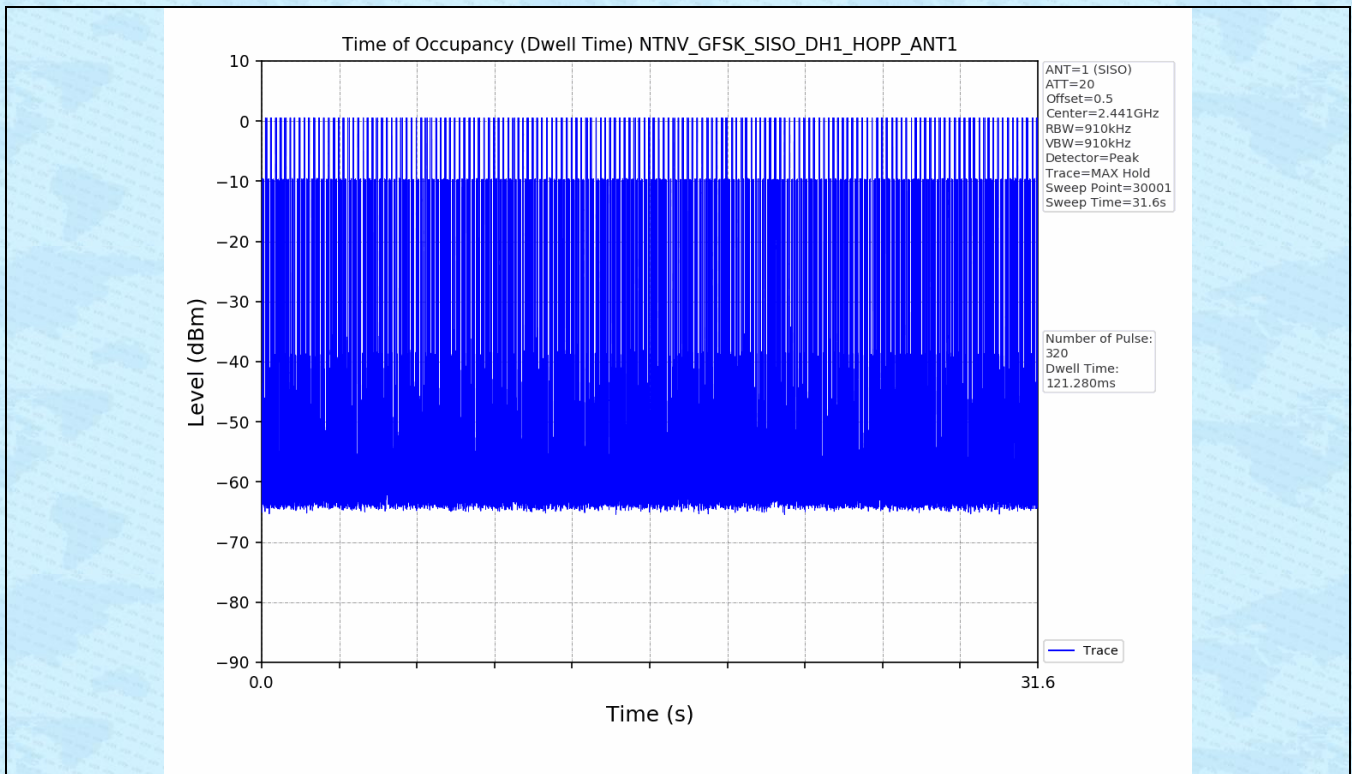
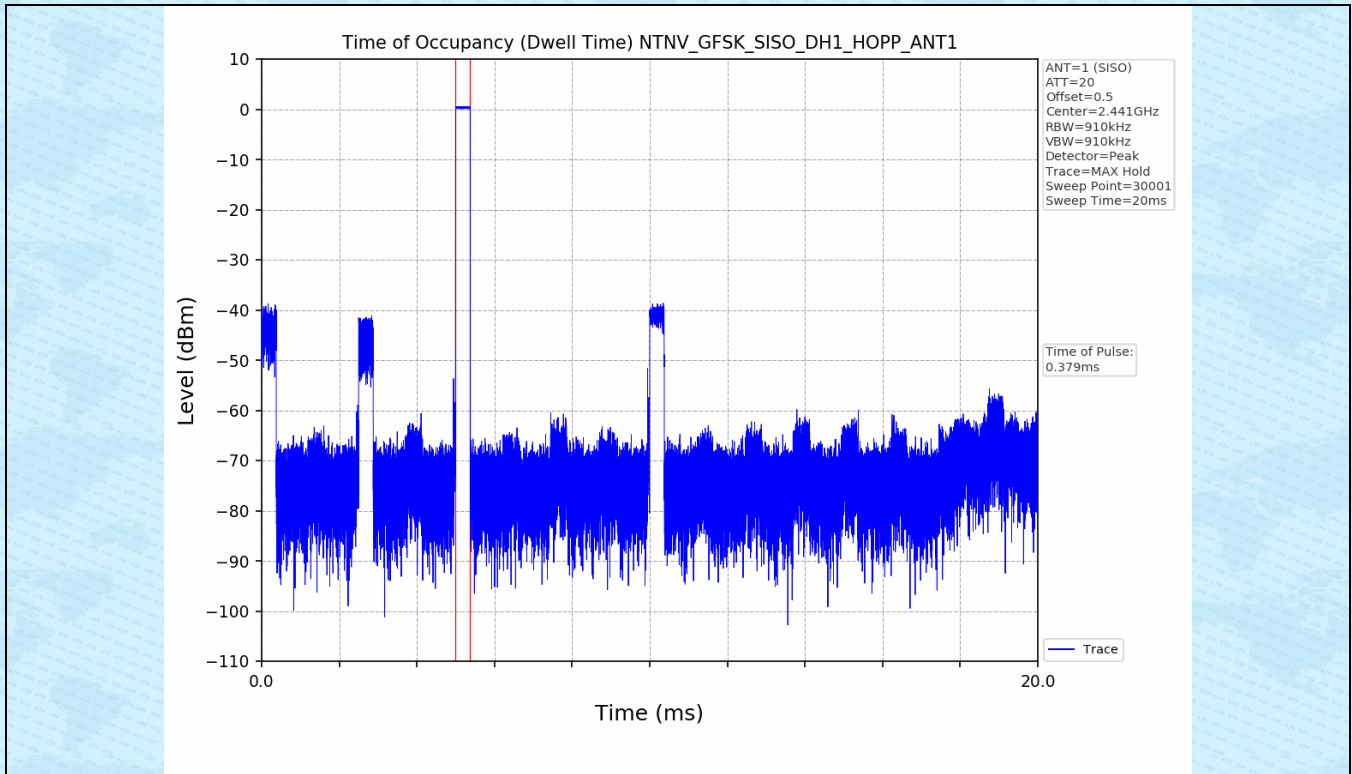


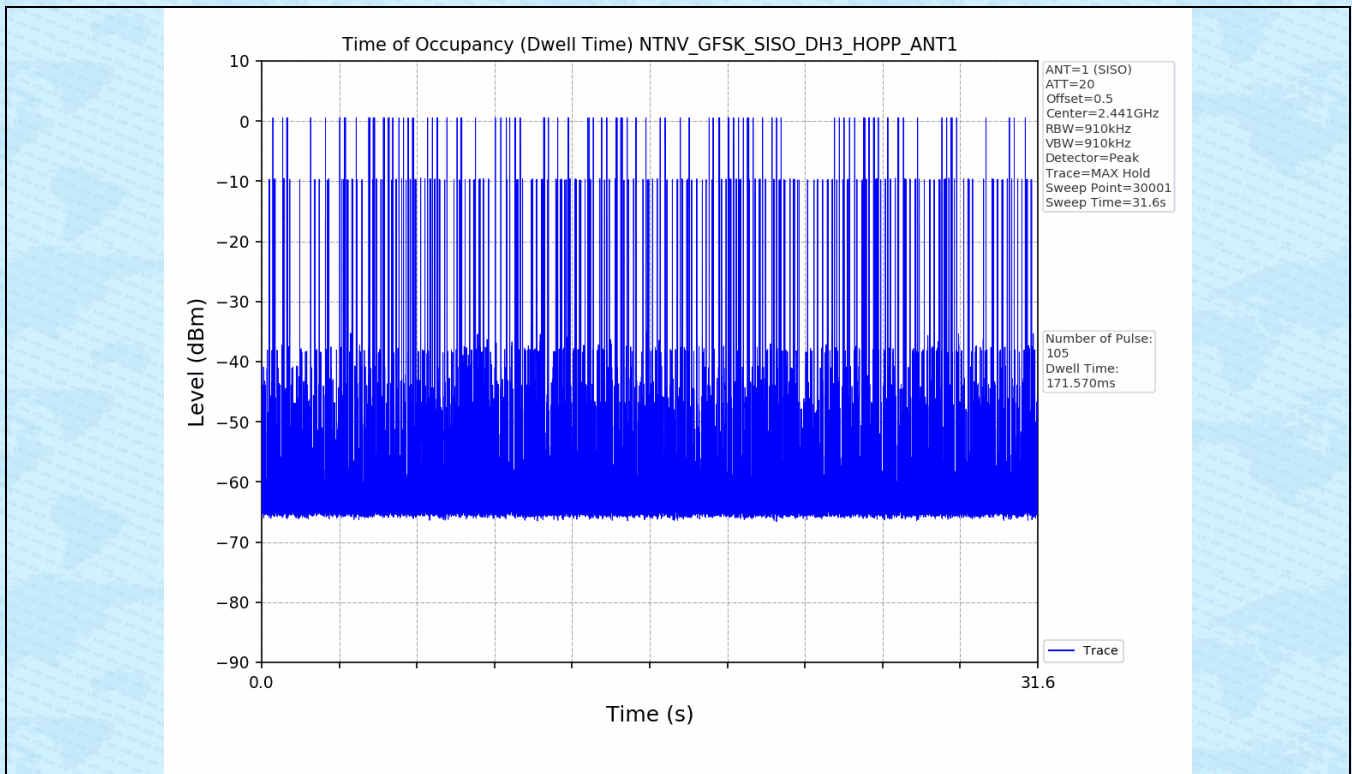
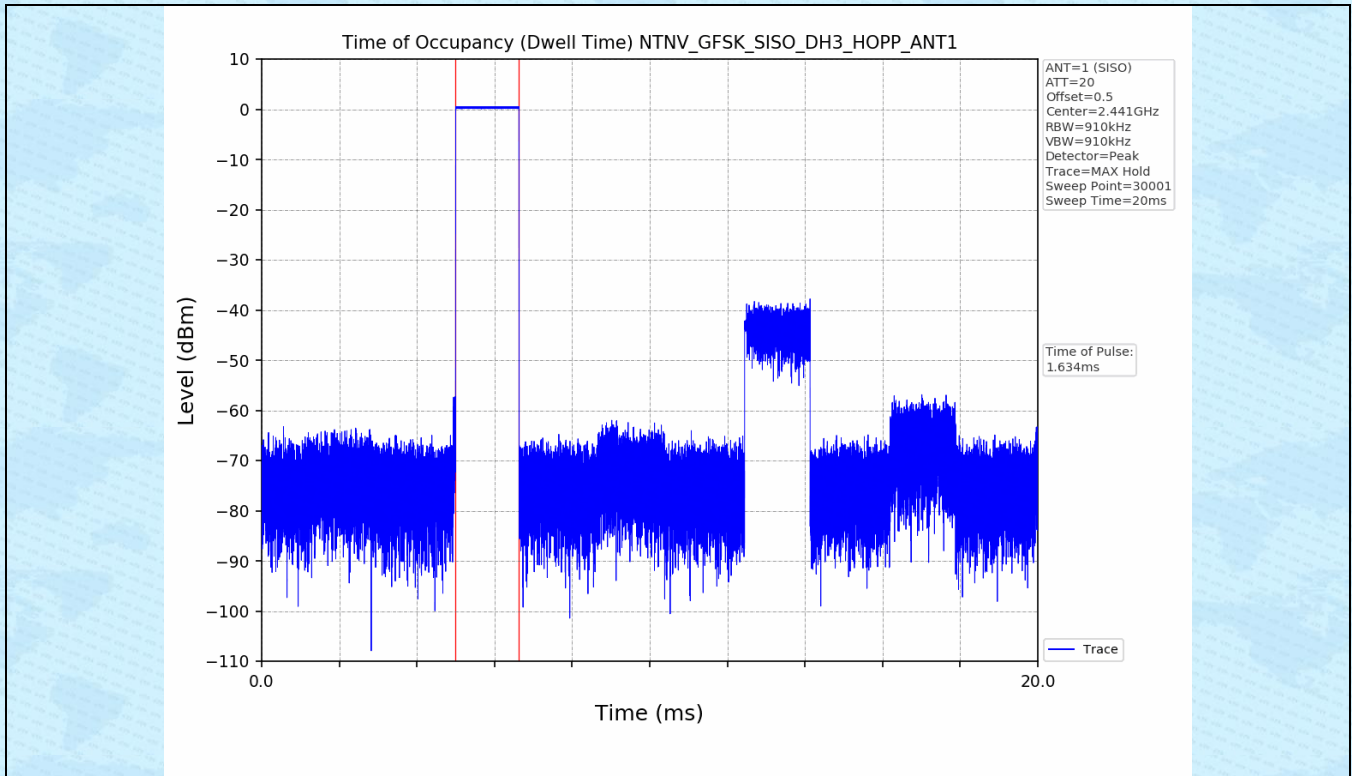
## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

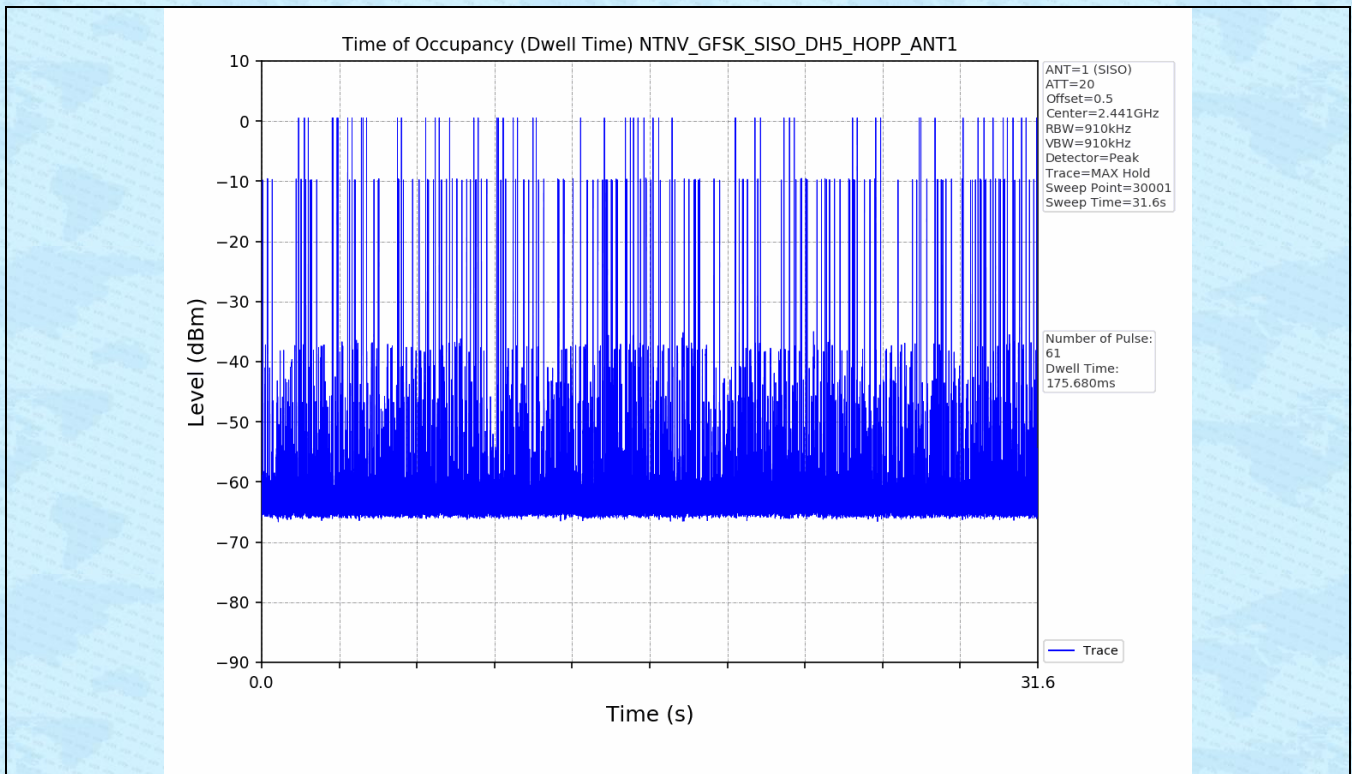
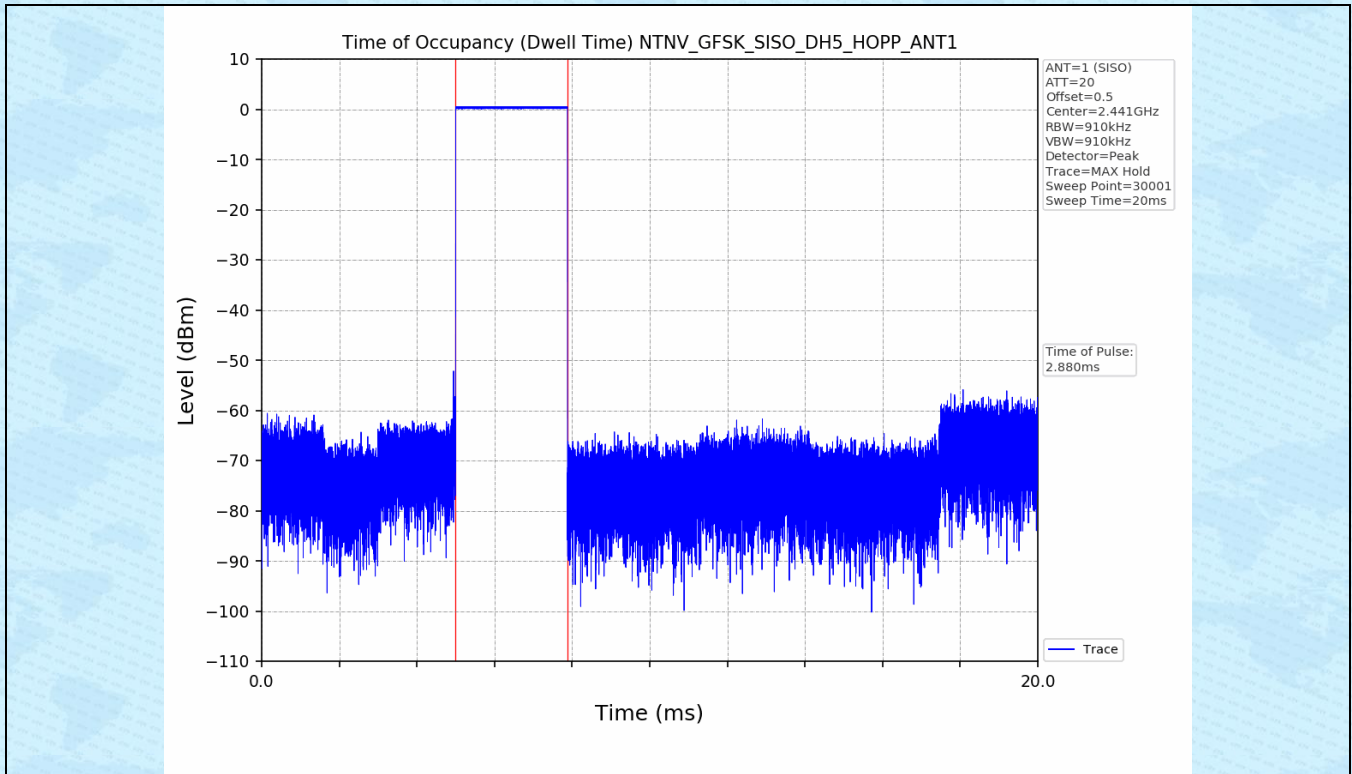
| Test Mode | Packet Type | TX Type | ANT No. | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limits (ms) | Verdict |
|-----------|-------------|---------|---------|-------------------------------|------------------------|------------------------------------|-----------------|-------------|---------|
| GFSK      | DH1         | SISO    | 1       | 0.379                         | 31.6                   | 320                                | 121.280         | ≤400        | PASS    |
|           | DH3         | SISO    | 1       | 1.634                         | 31.6                   | 105                                | 171.570         | ≤400        | PASS    |
|           | DH5         | SISO    | 1       | 2.880                         | 31.6                   | 61                                 | 175.680         | ≤400        | PASS    |
| Pi/4DQPSK | 2DH1        | SISO    | 1       | 0.388                         | 31.6                   | 320                                | 124.160         | ≤400        | PASS    |
|           | 2DH3        | SISO    | 1       | 1.641                         | 31.6                   | 110                                | 180.510         | ≤400        | PASS    |
|           | 2DH5        | SISO    | 1       | 2.888                         | 31.6                   | 60                                 | 173.280         | ≤400        | PASS    |

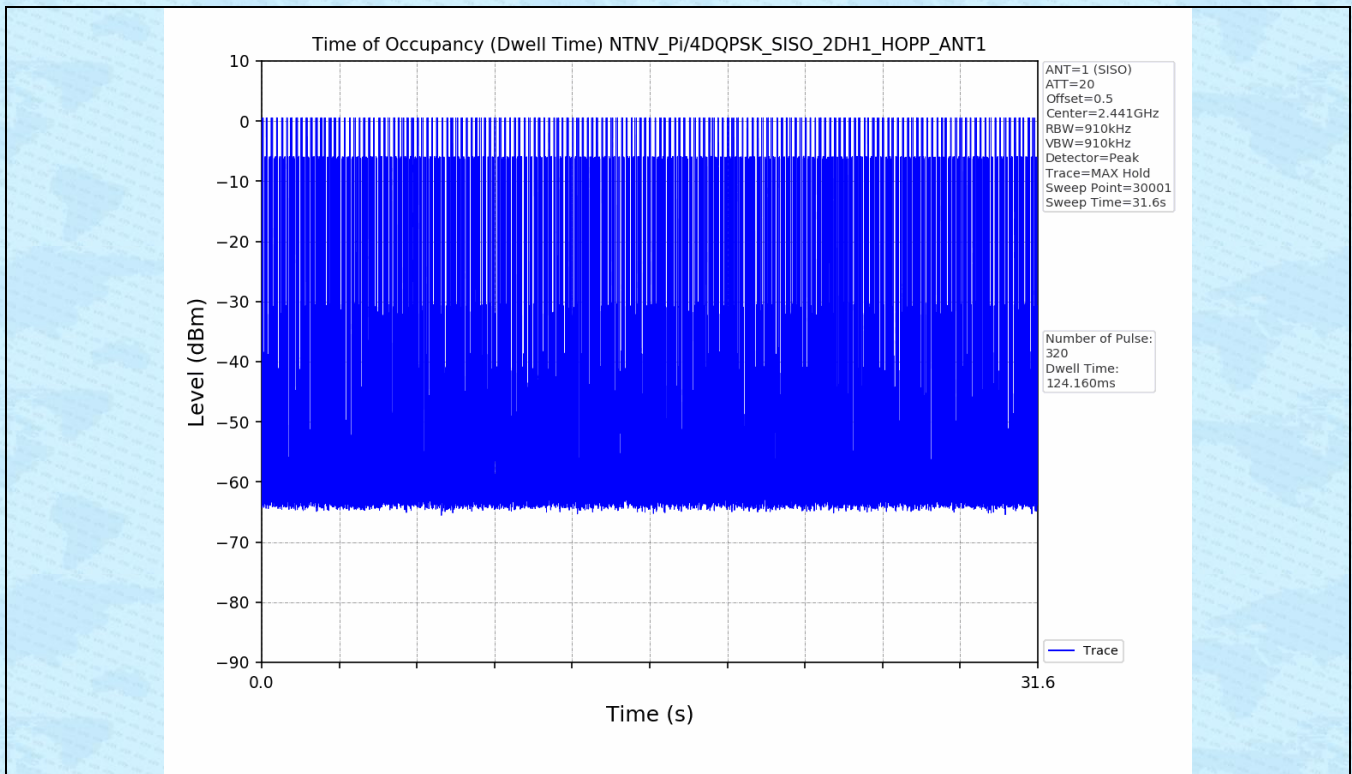
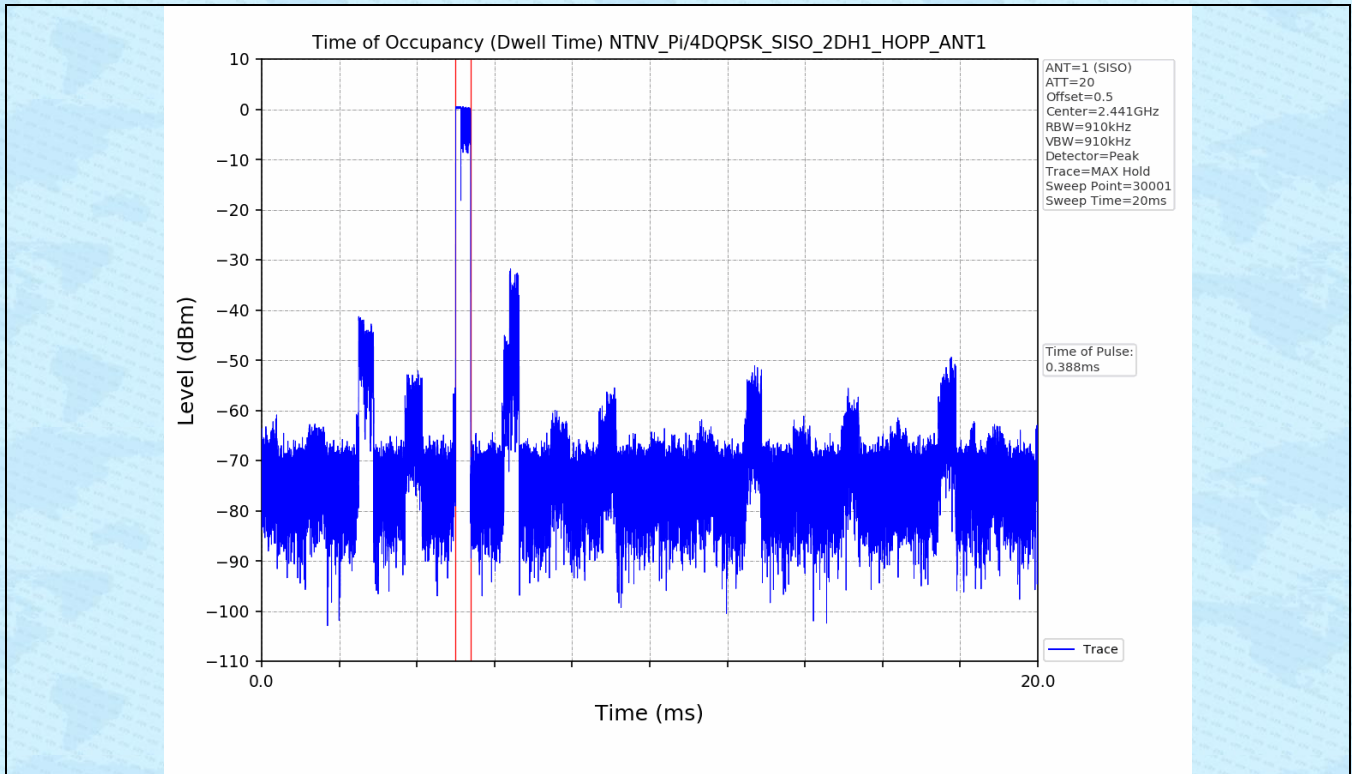
### 5.2 Test Graph

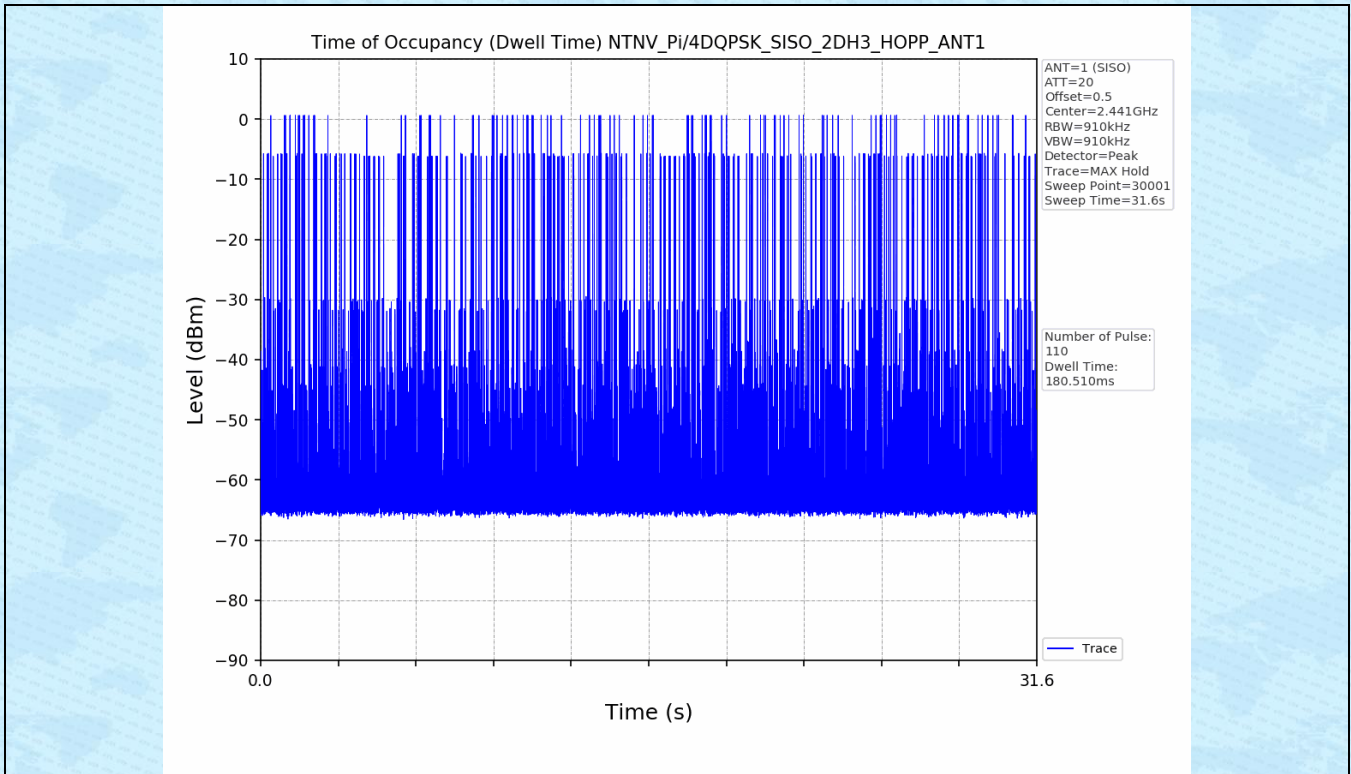
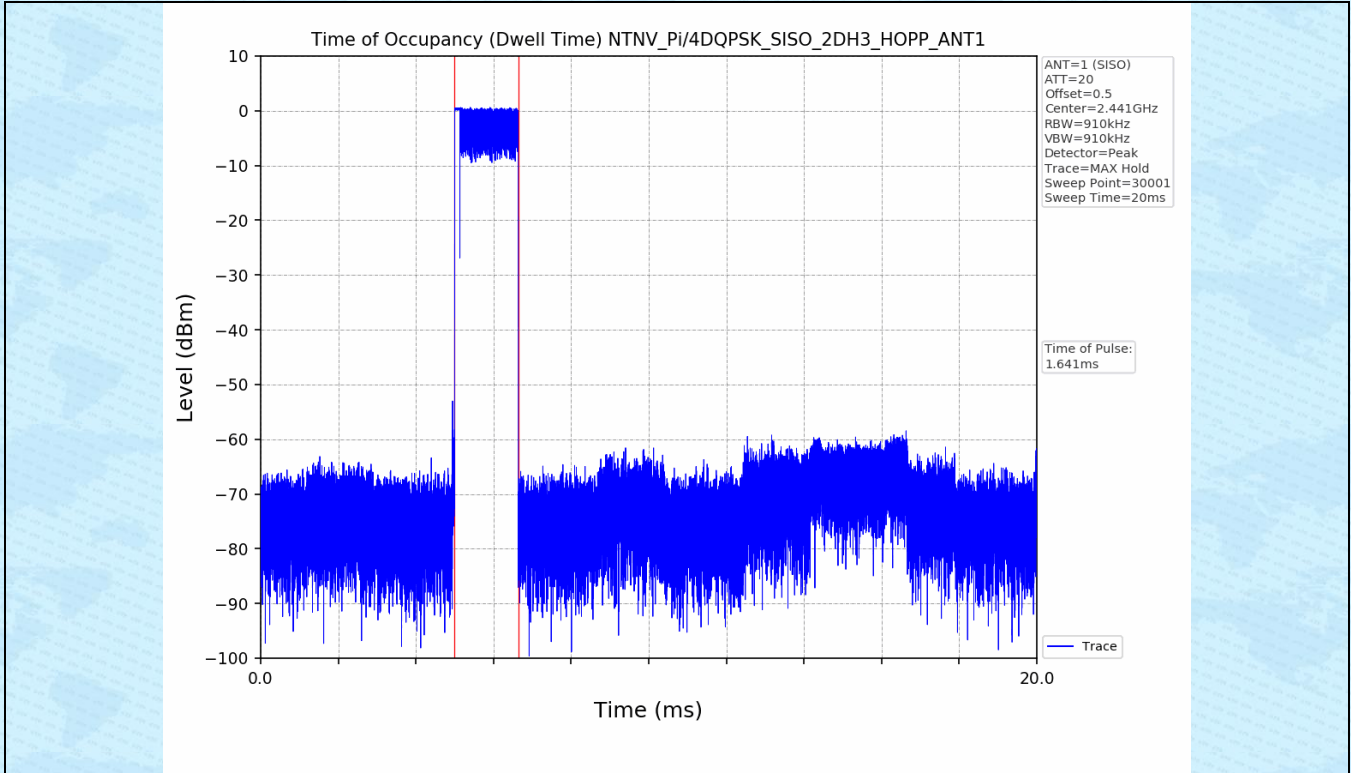


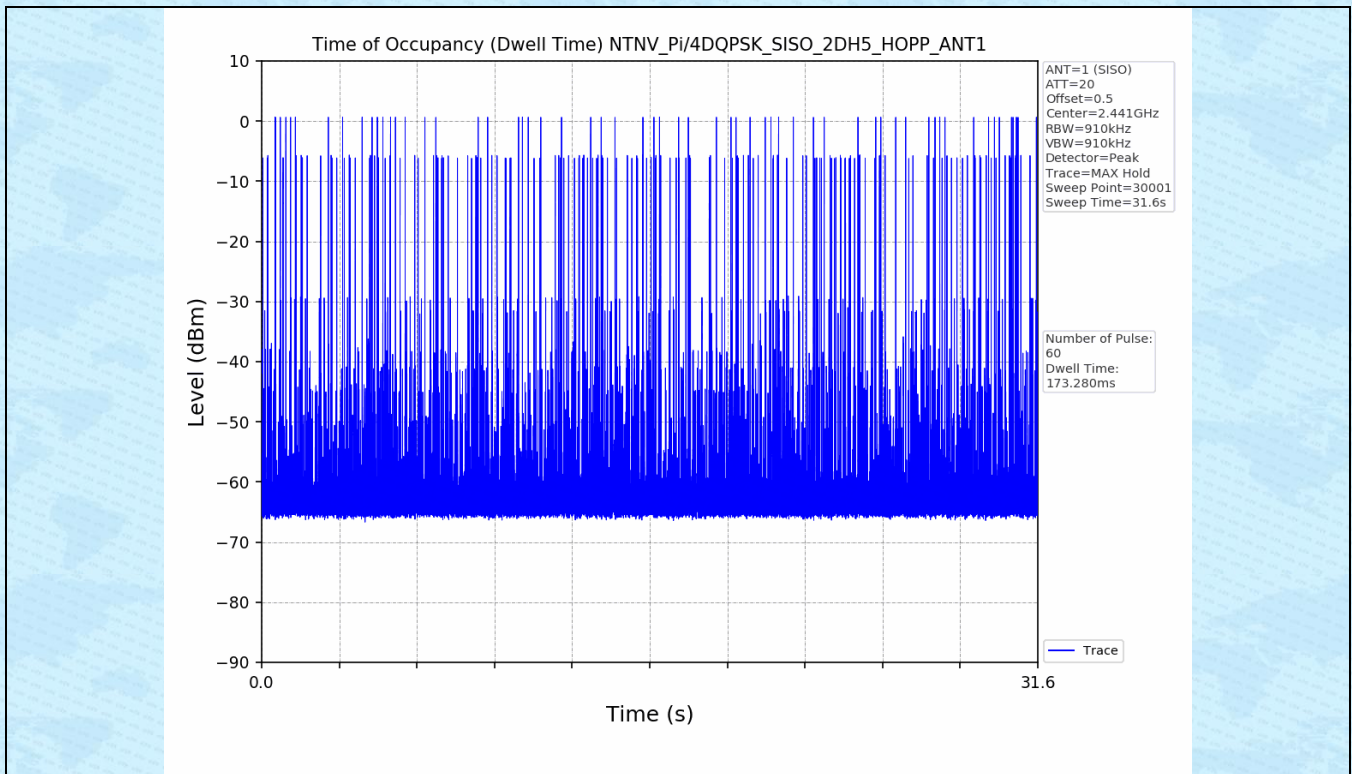
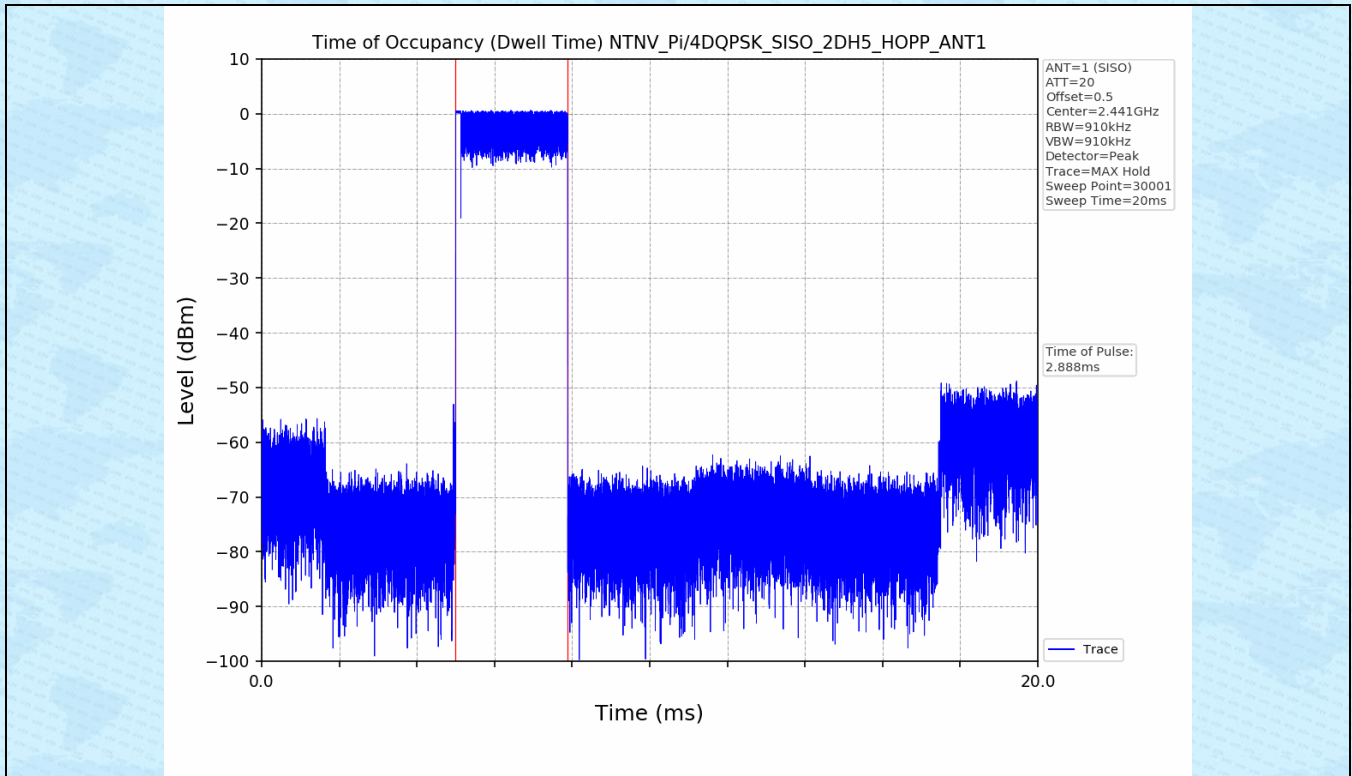










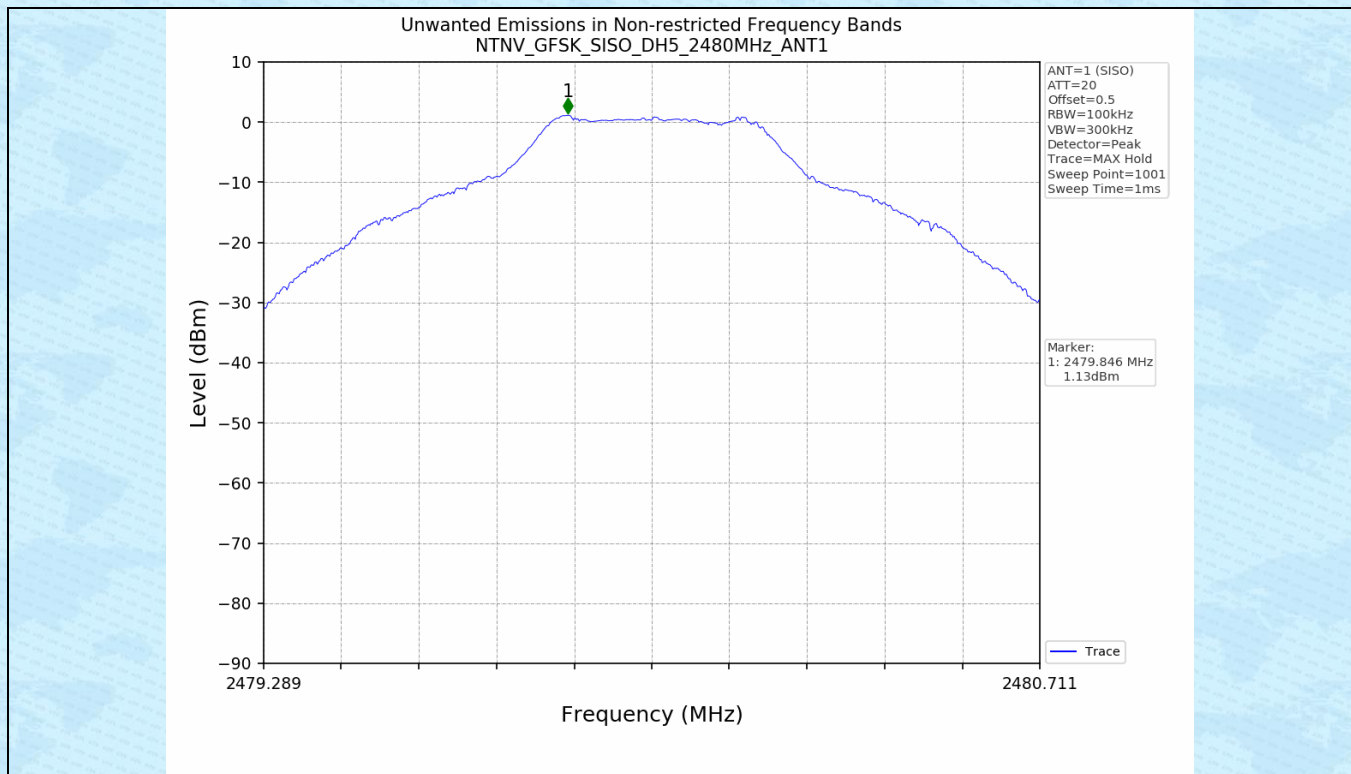


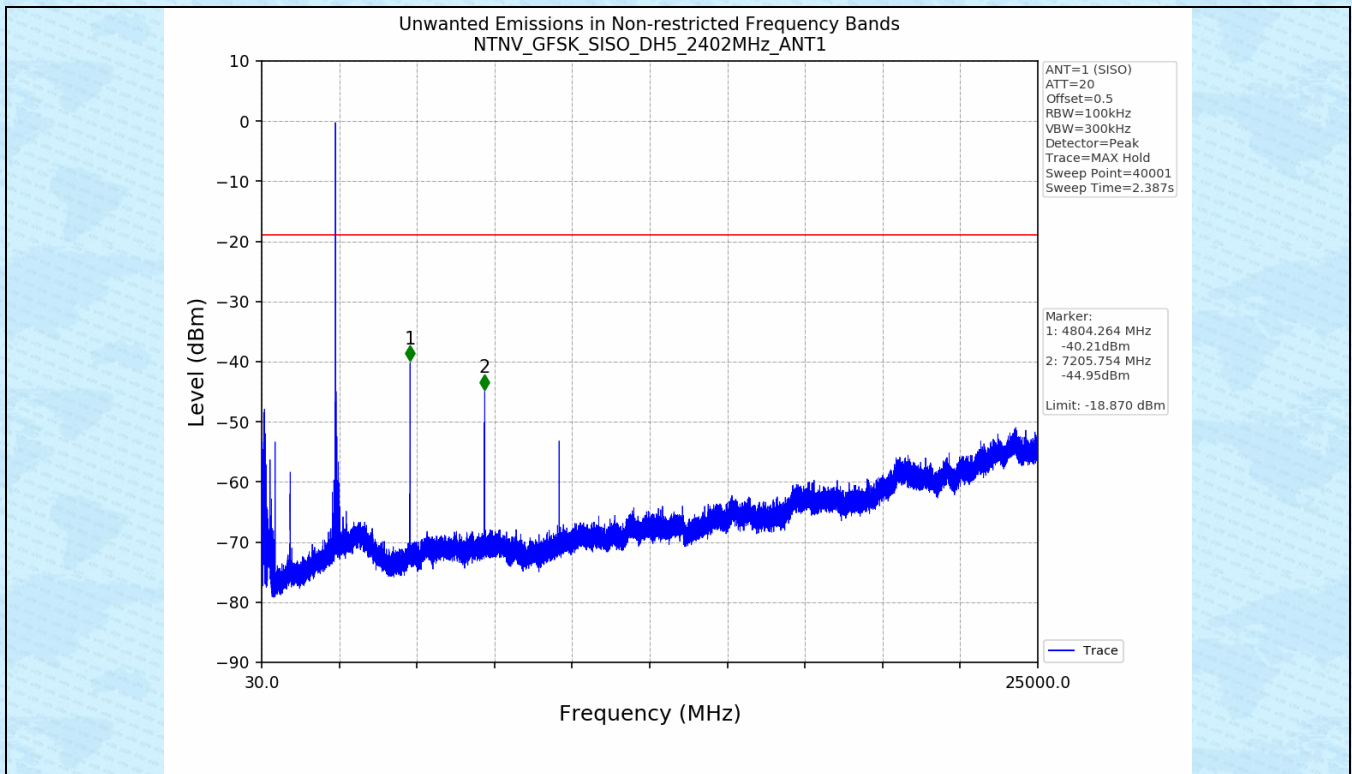
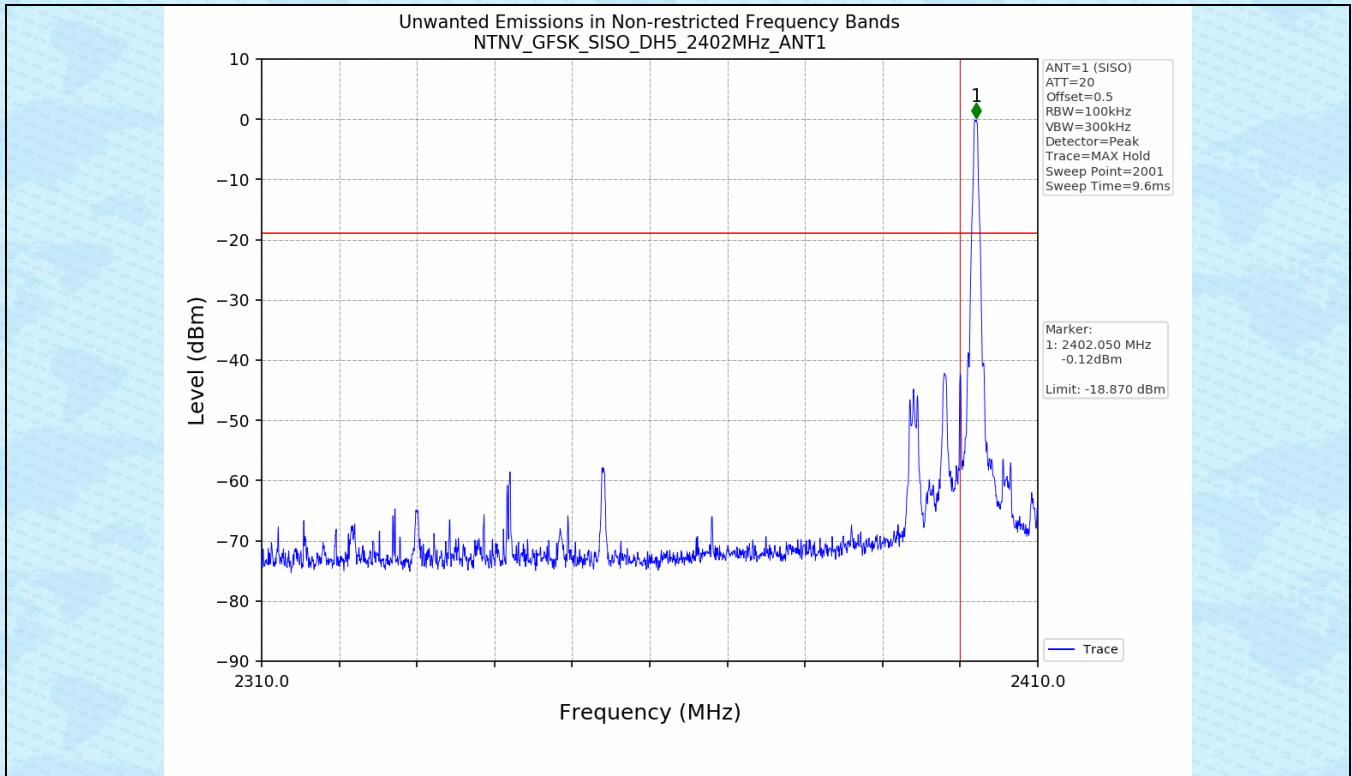
## 6. Unwanted Emissions in Non-restricted Frequency Bands

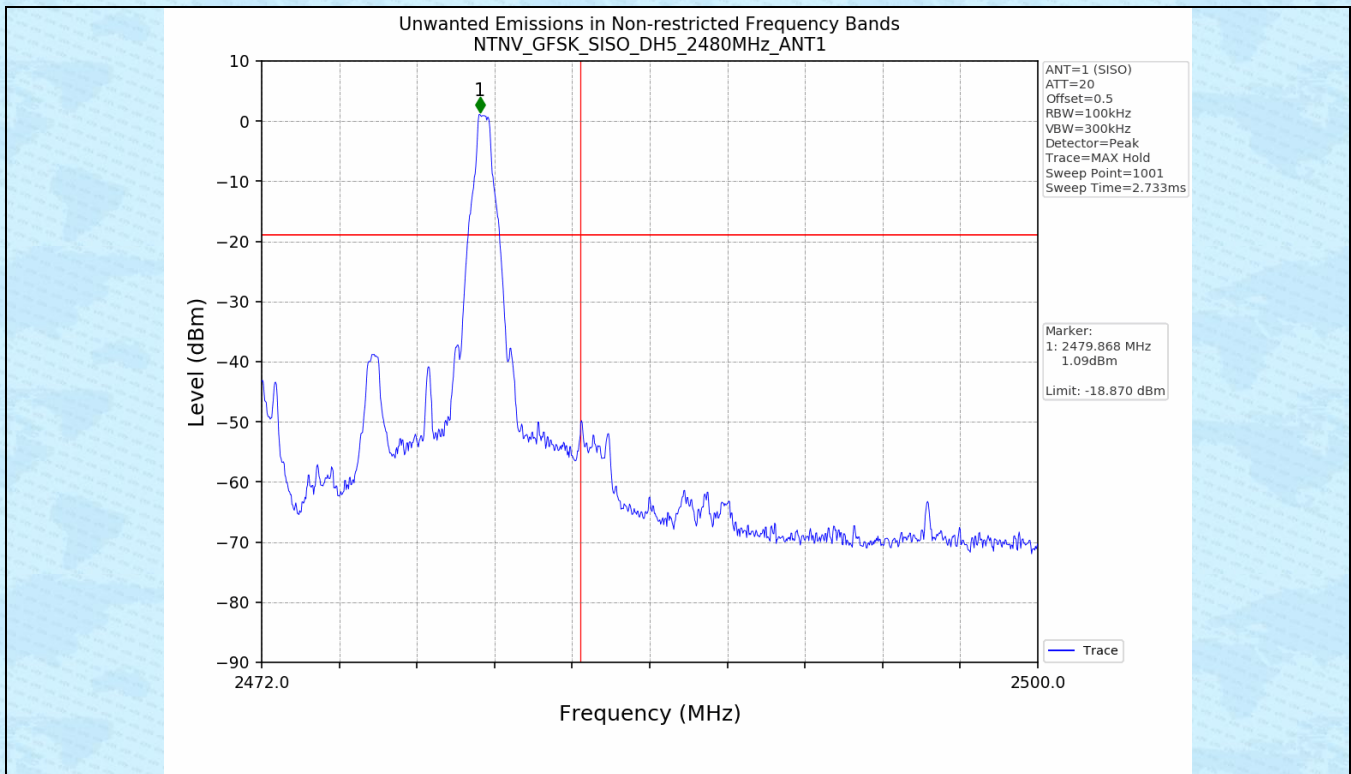
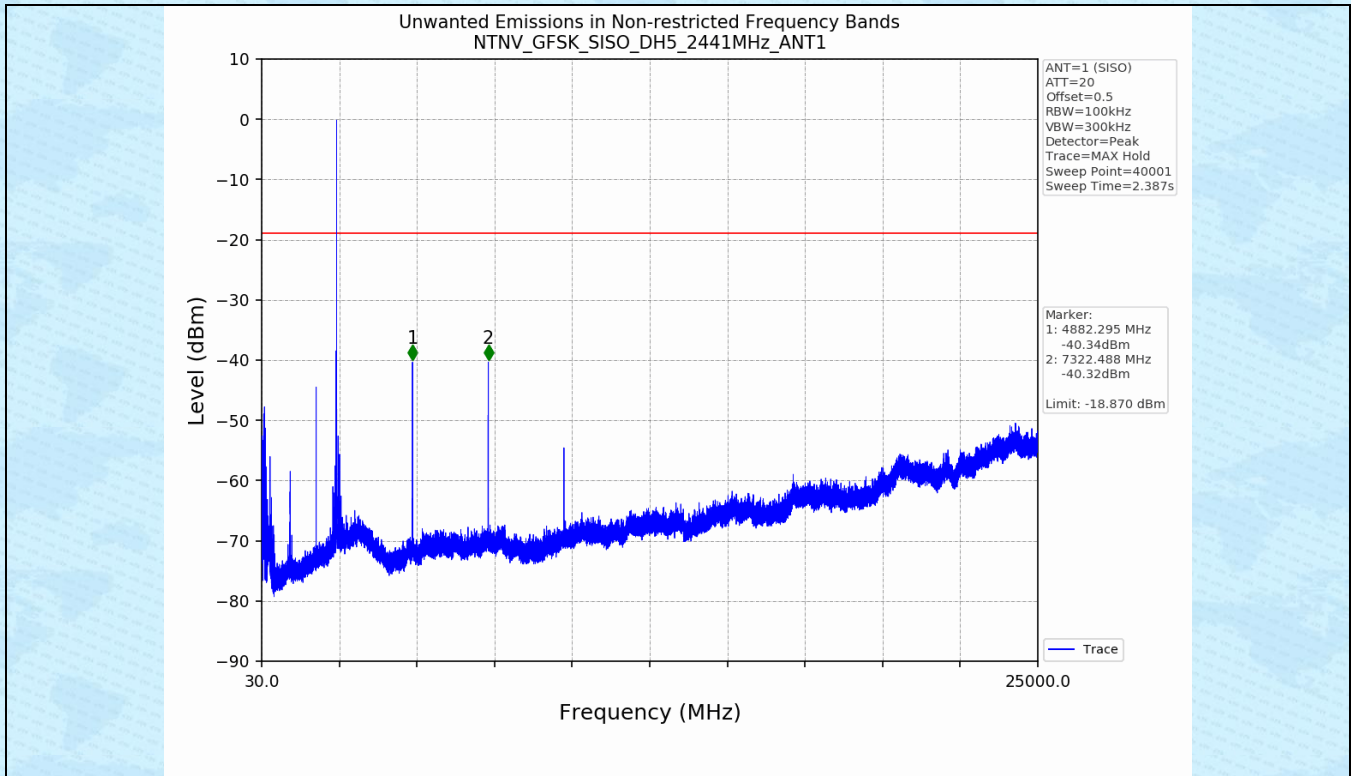
### 6.1 Test Result

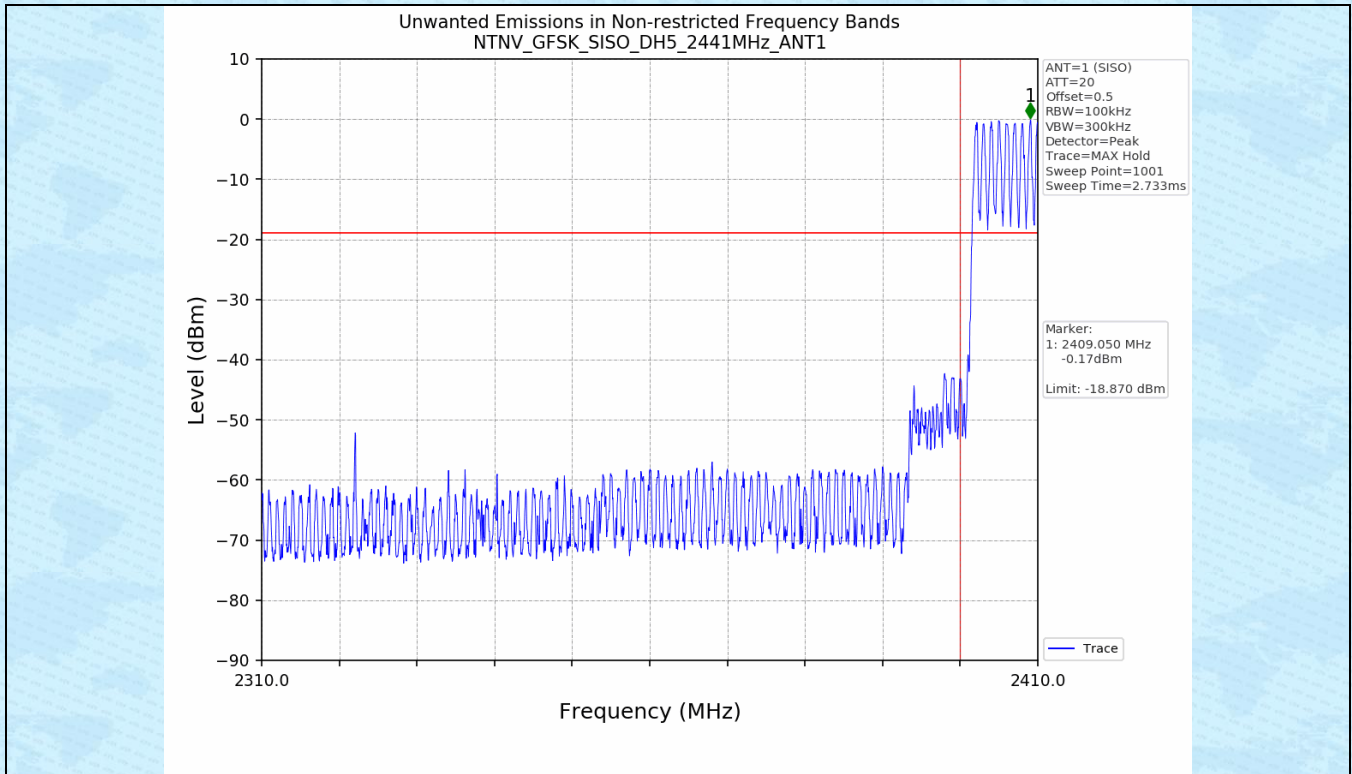
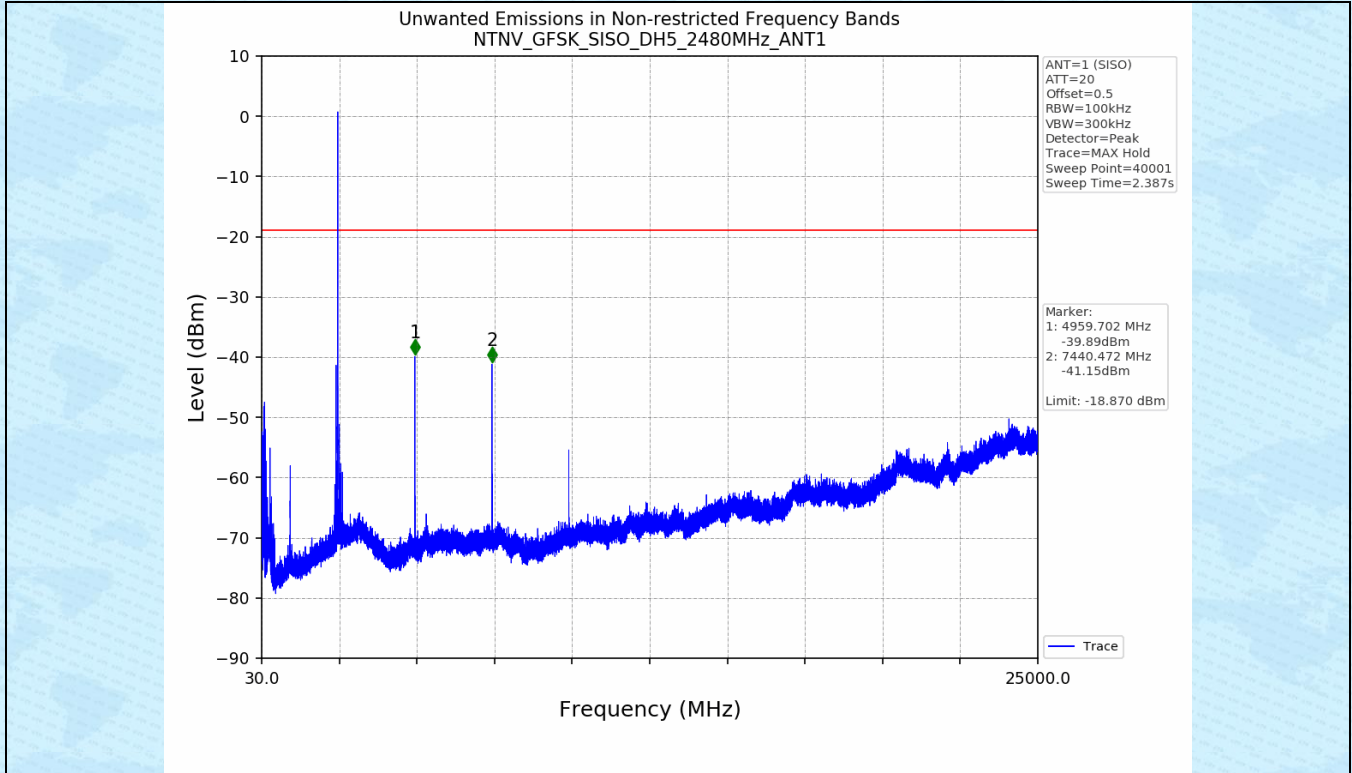
| Test Mode | Frequency (MHz) | TX Type | ANT No. | Spurious Conducted Emission (dBm) | Limits (dBm) | Verdict |
|-----------|-----------------|---------|---------|-----------------------------------|--------------|---------|
| GFSK      | 2402            | SISO    | 1       | Refer to test graph               | -18.87       | PASS    |
|           | 2441            | SISO    | 1       | Refer to test graph               | -18.87       | PASS    |
|           | 2480            | SISO    | 1       | Refer to test graph               | -18.87       | PASS    |
|           | Hopping         | SISO    | 1       | Refer to test graph               | -18.87       | PASS    |
| Pi/4DQPSK | 2402            | SISO    | 1       | Refer to test graph               | -18.92       | PASS    |
|           | 2441            | SISO    | 1       | Refer to test graph               | -18.92       | PASS    |
|           | 2480            | SISO    | 1       | Refer to test graph               | -18.92       | PASS    |
|           | Hopping         | SISO    | 1       | Refer to test graph               | -18.92       | PASS    |

### 6.2 Test Graph

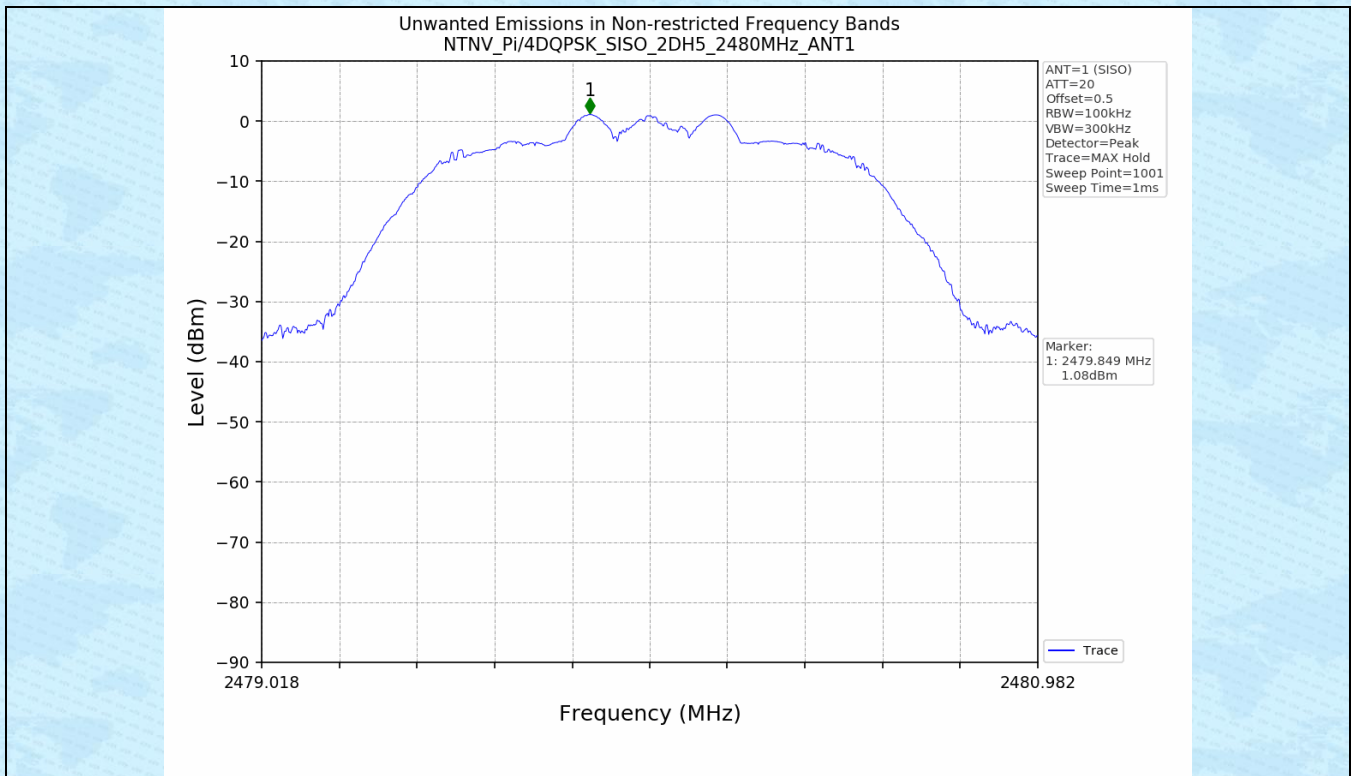
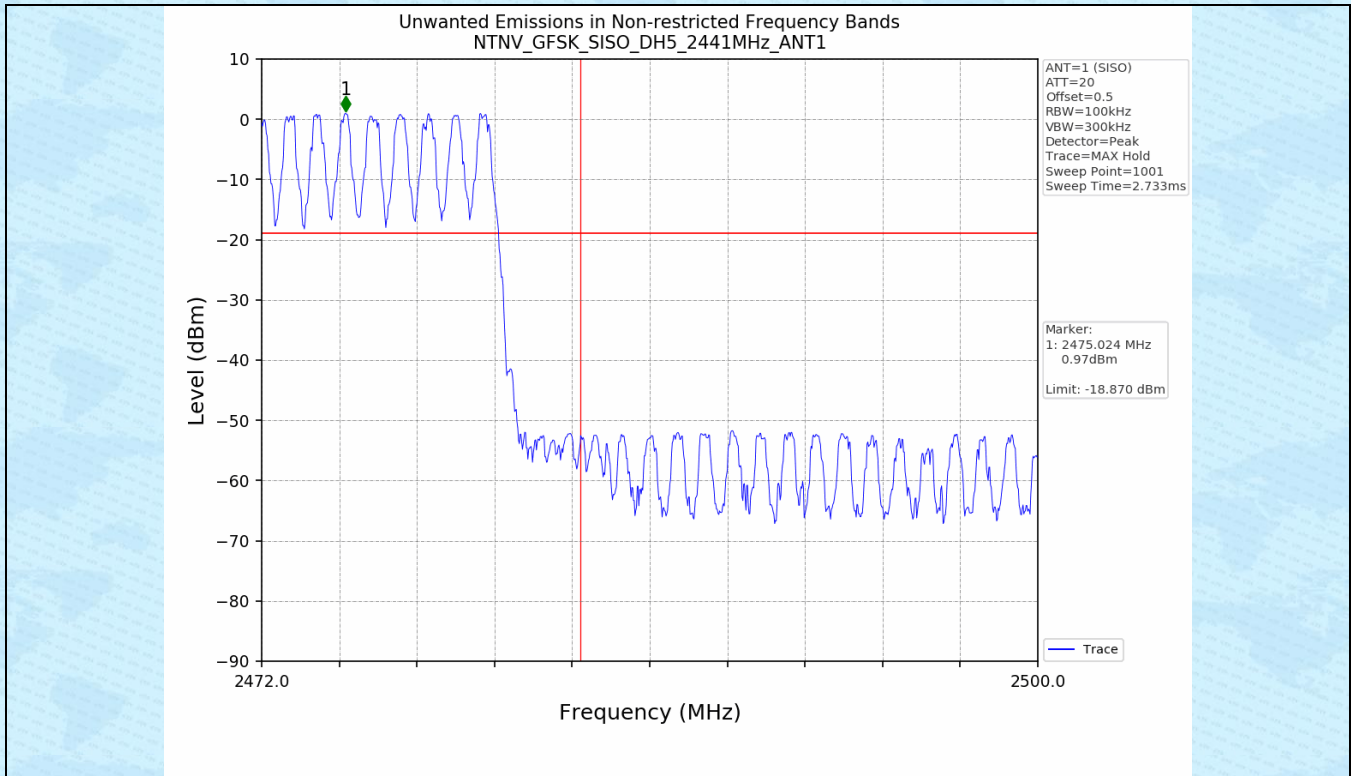


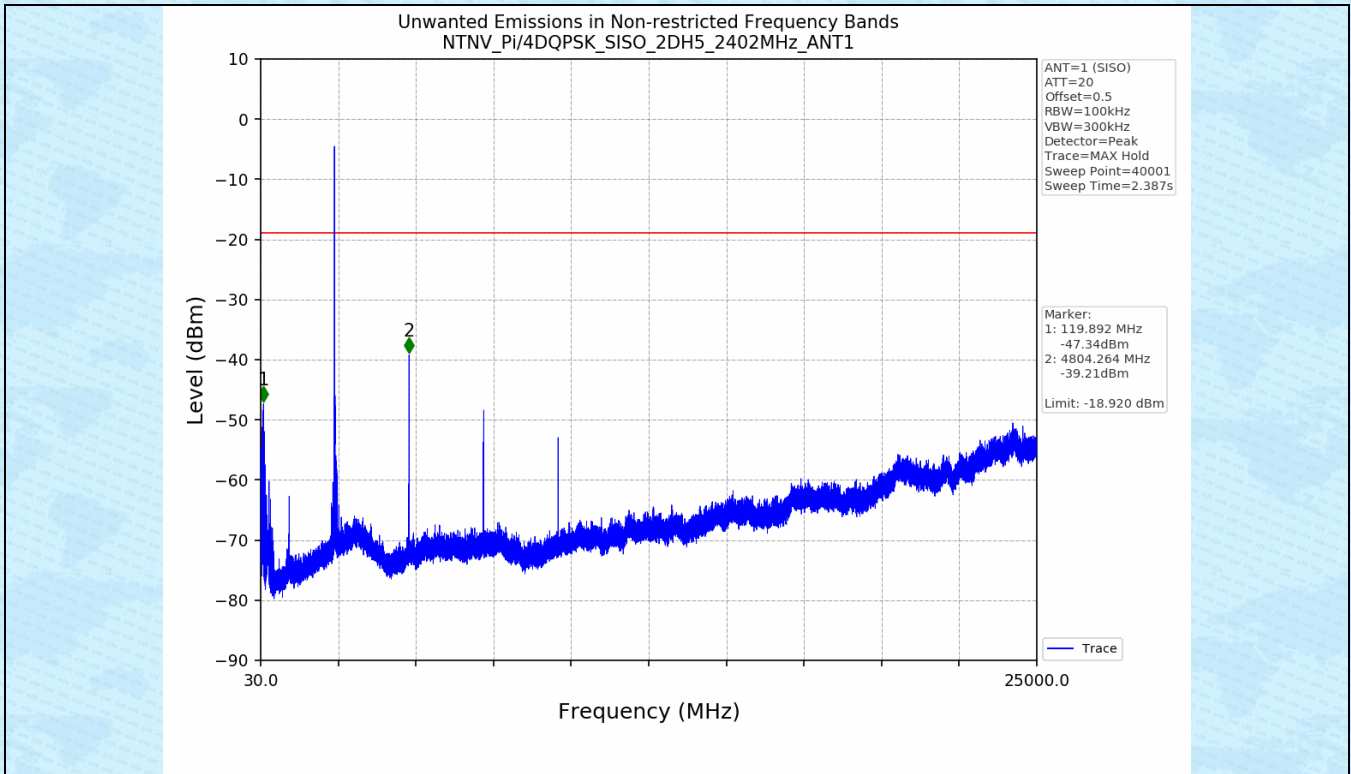
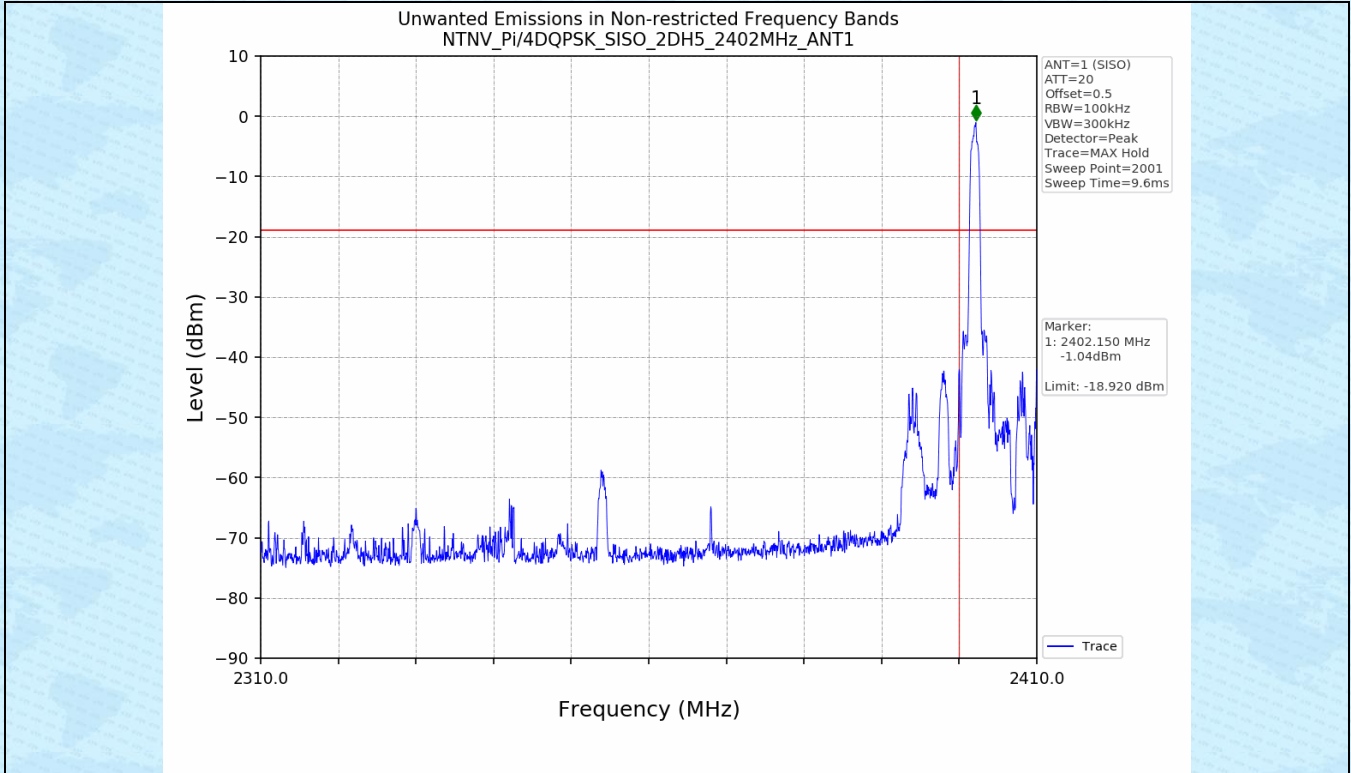


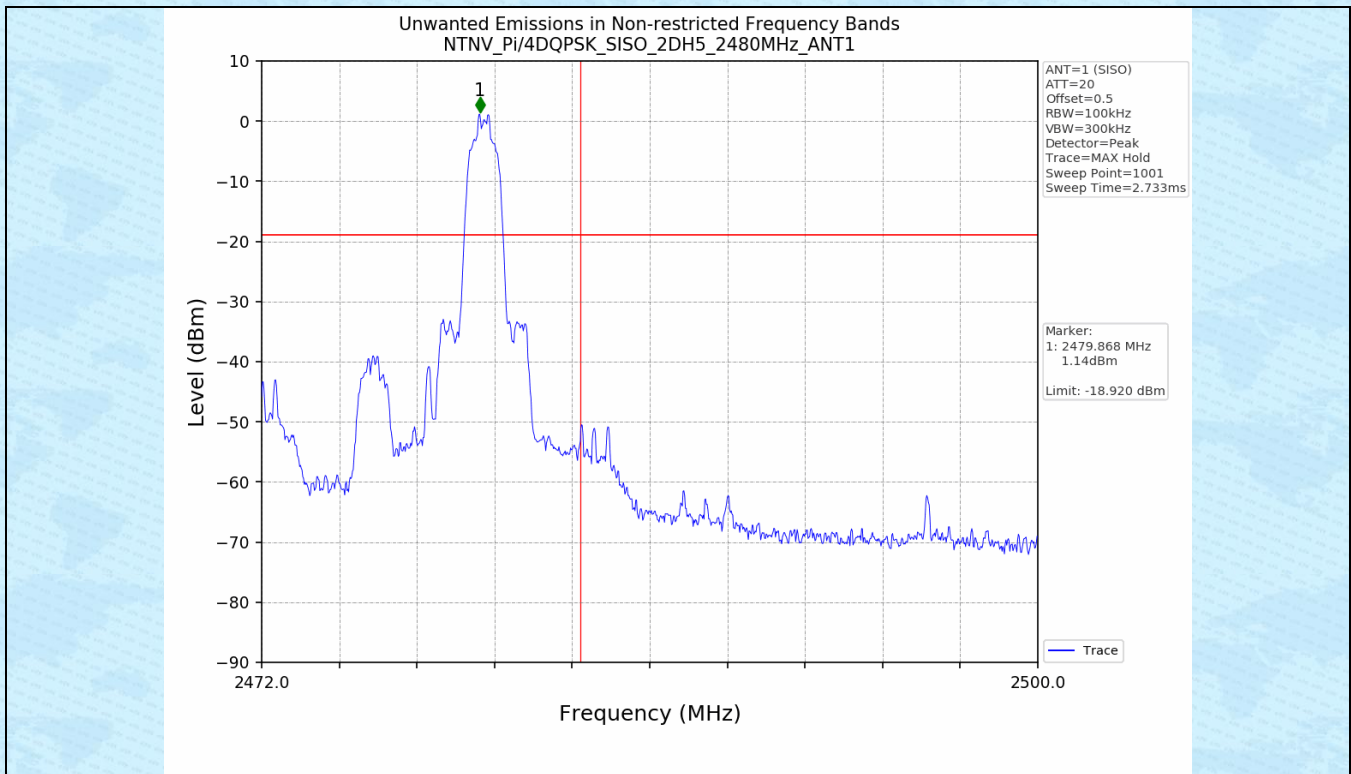
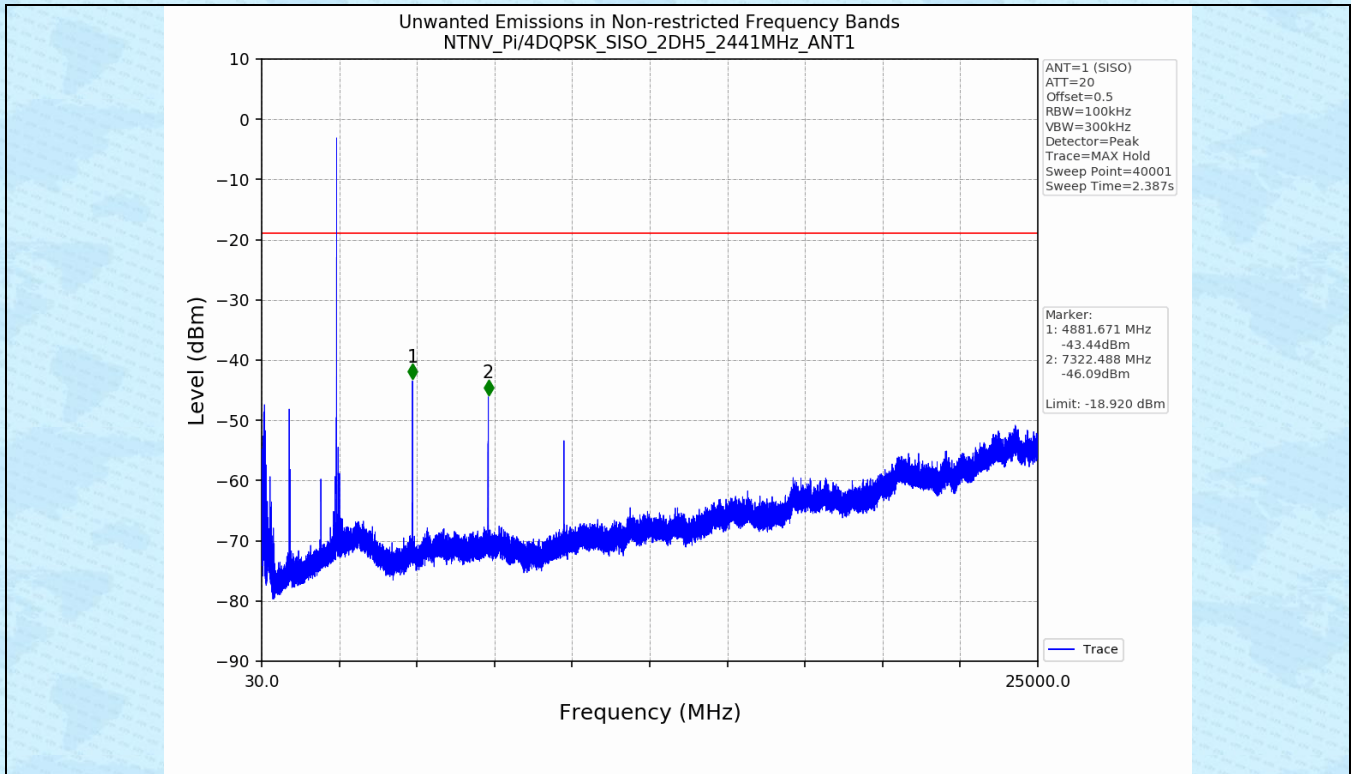


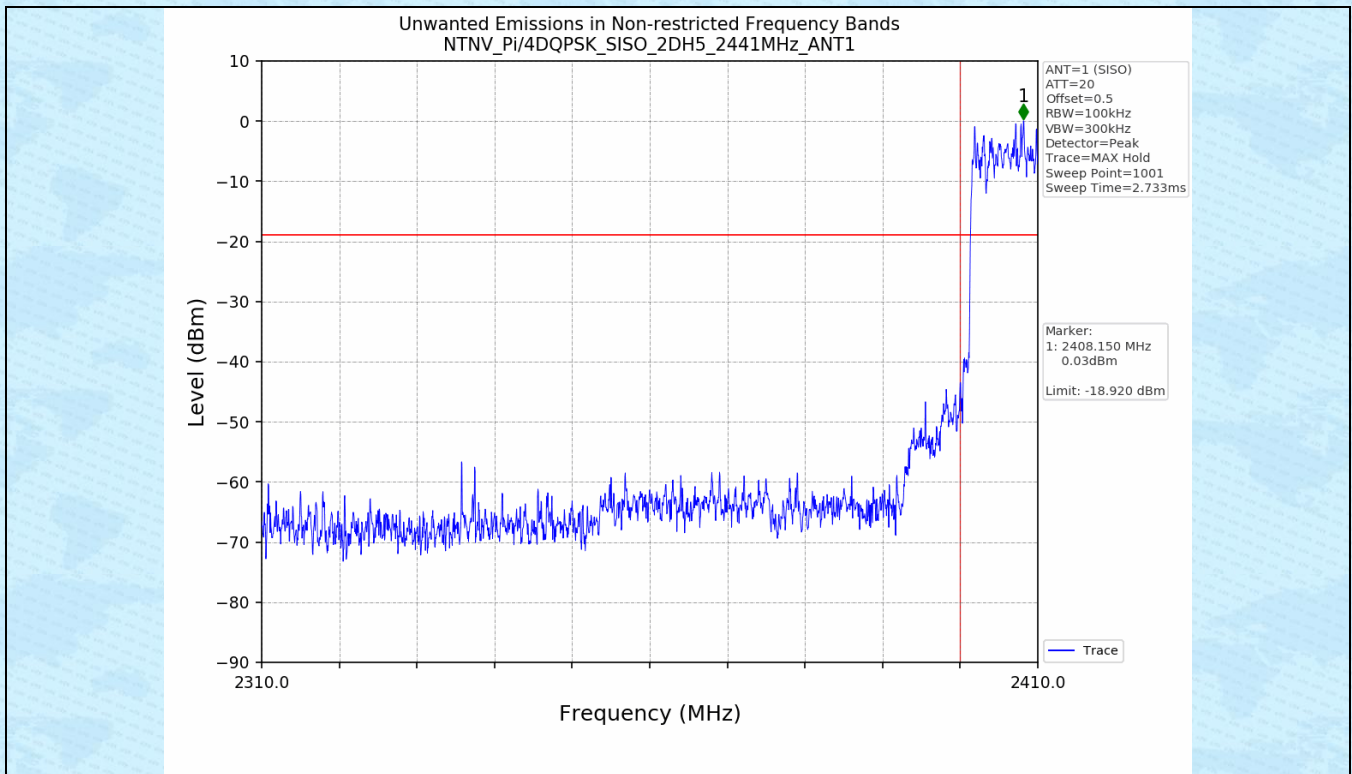
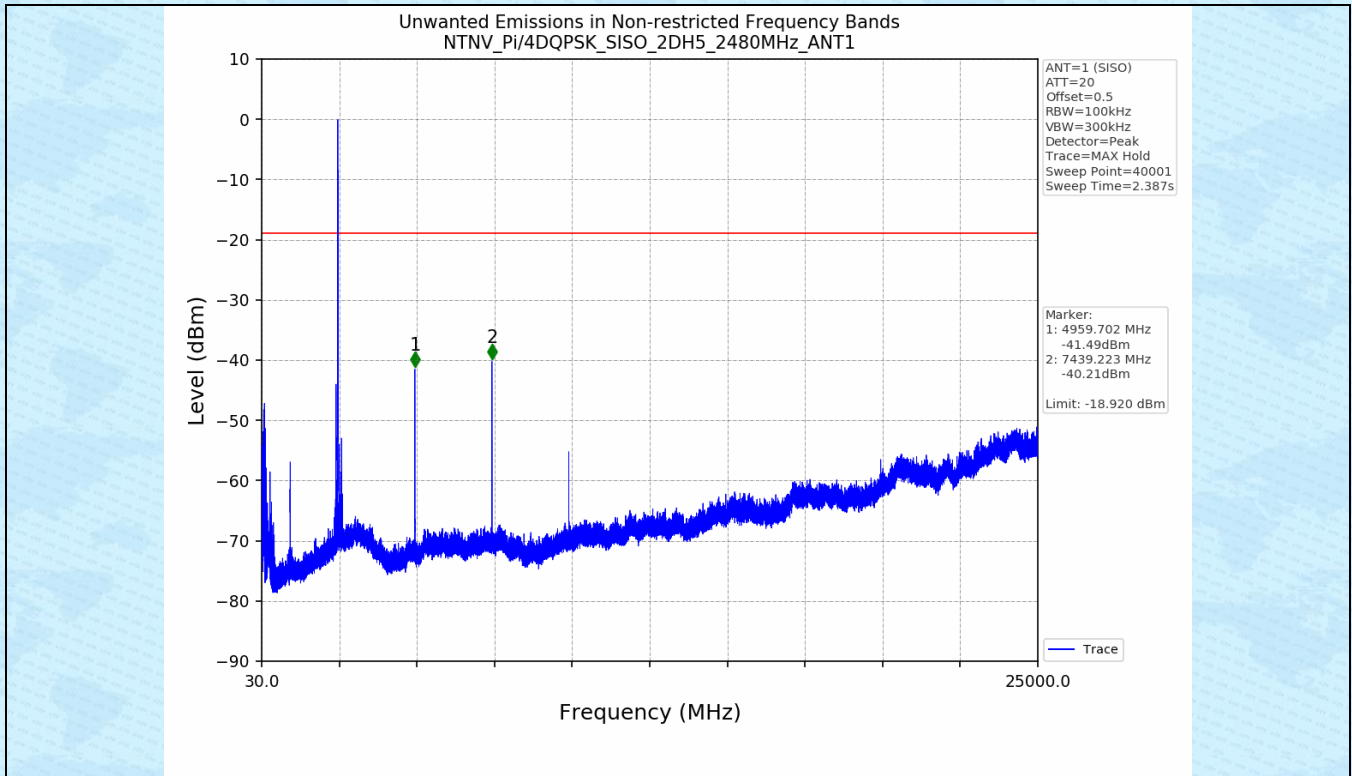


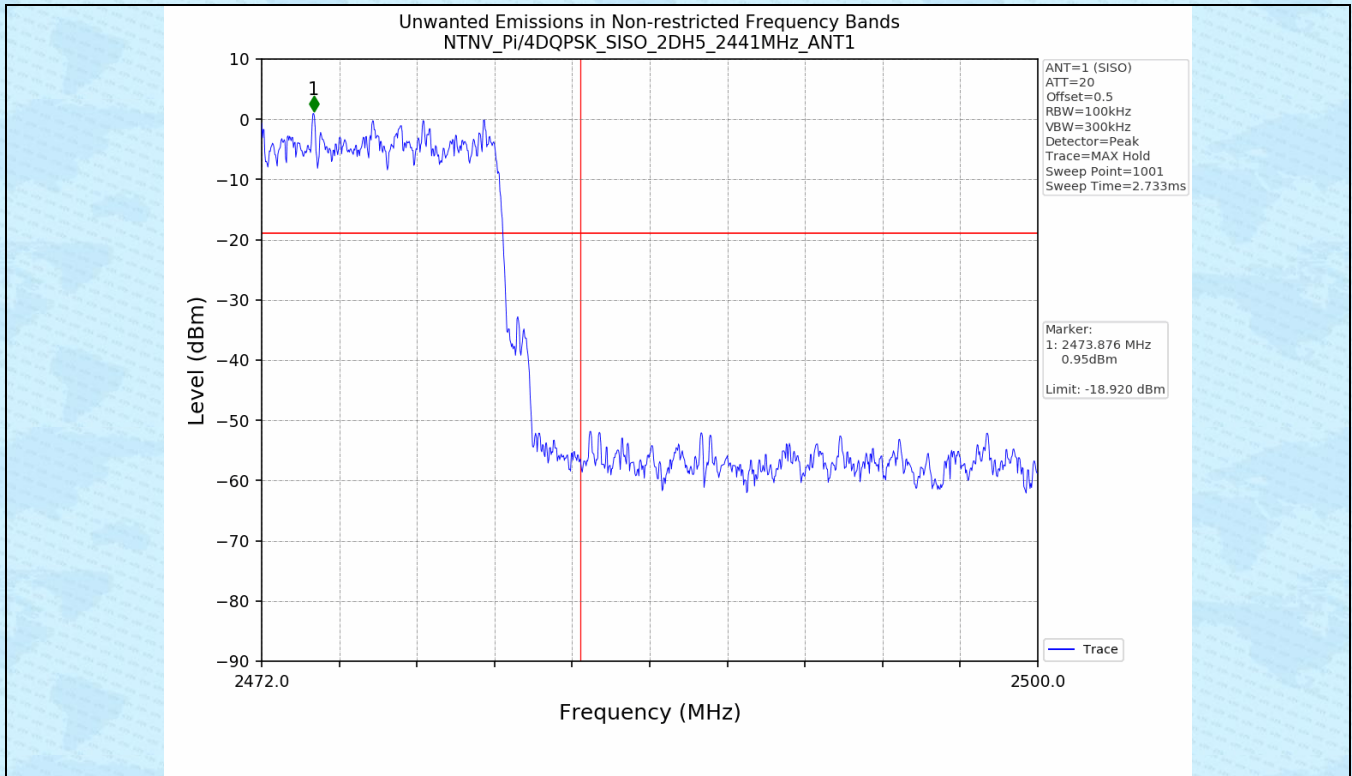












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