

## Appendix for 15.247

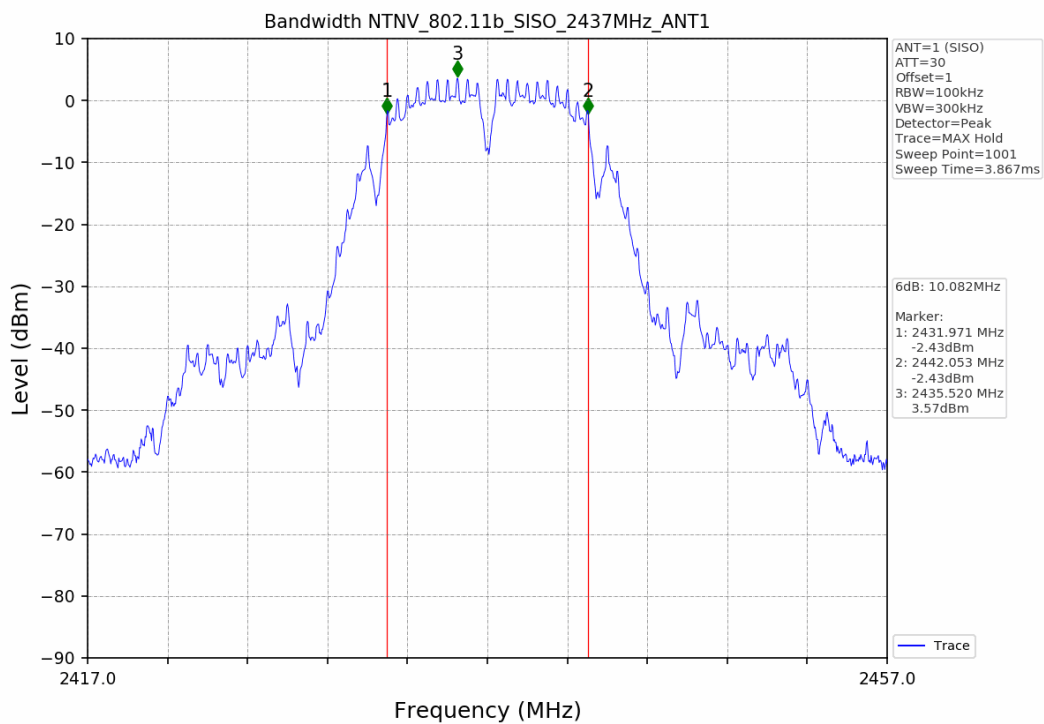
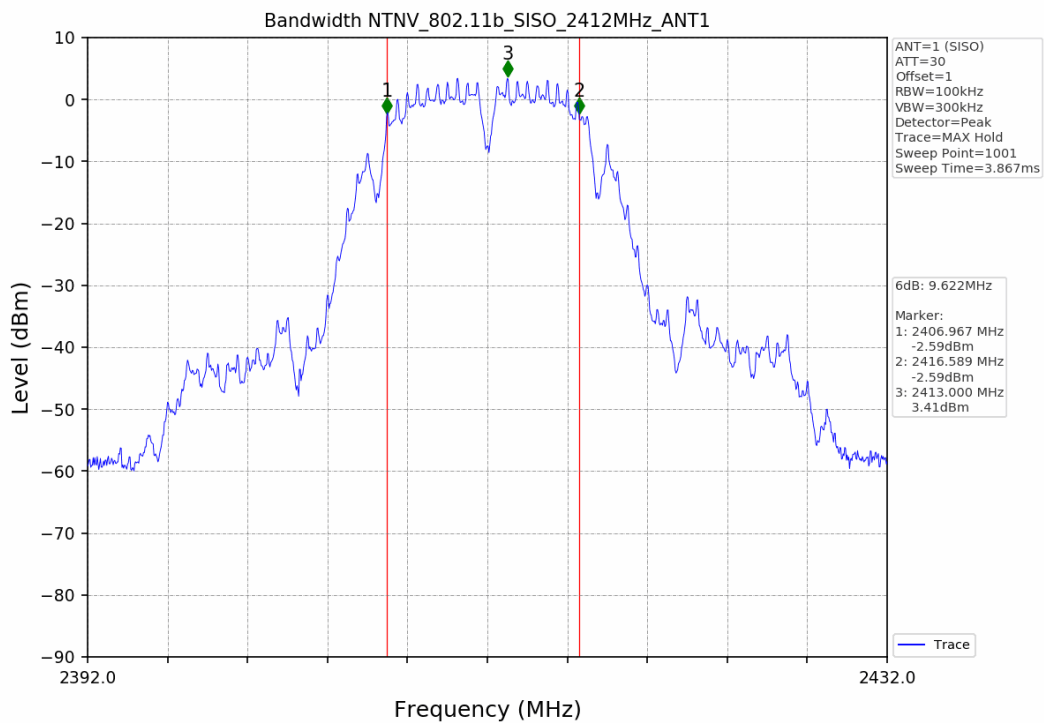
### 1. Bandwidth

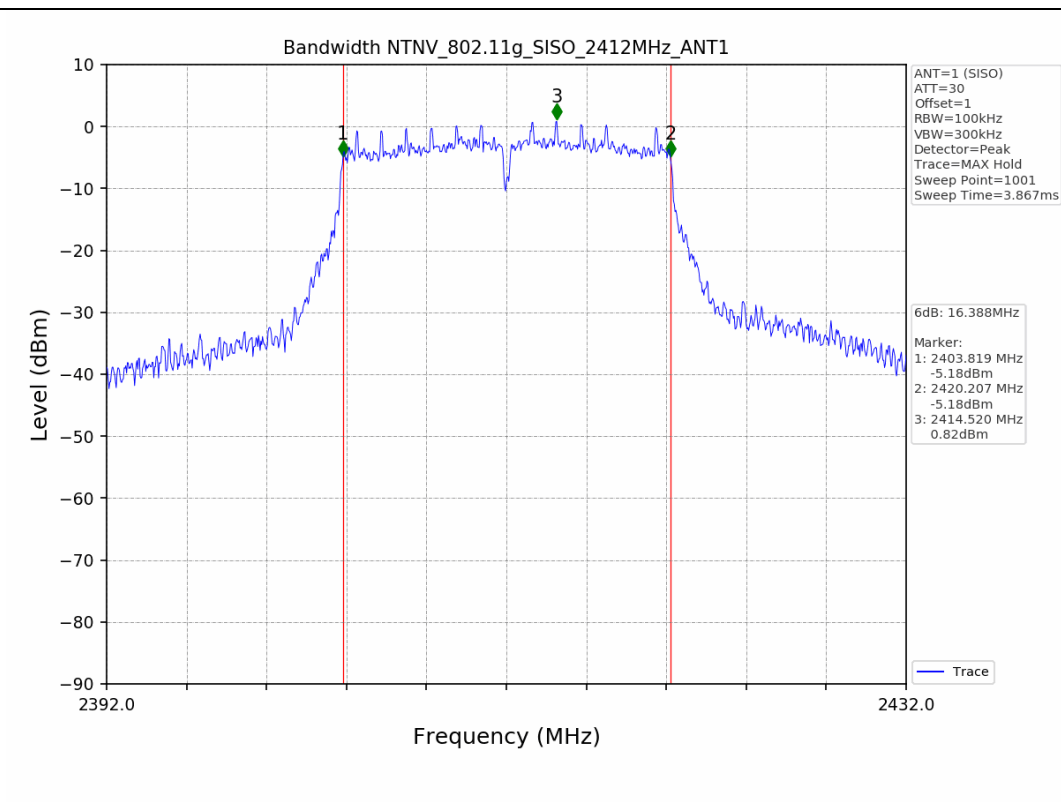
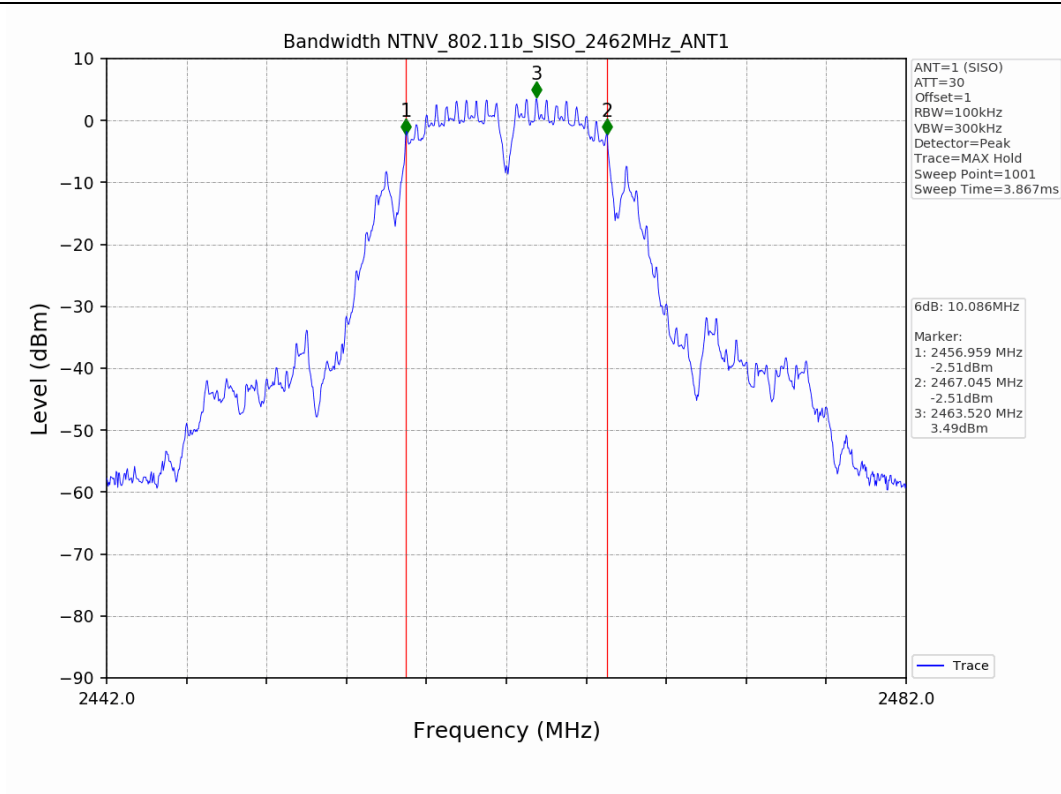
#### 1.1 Test Result

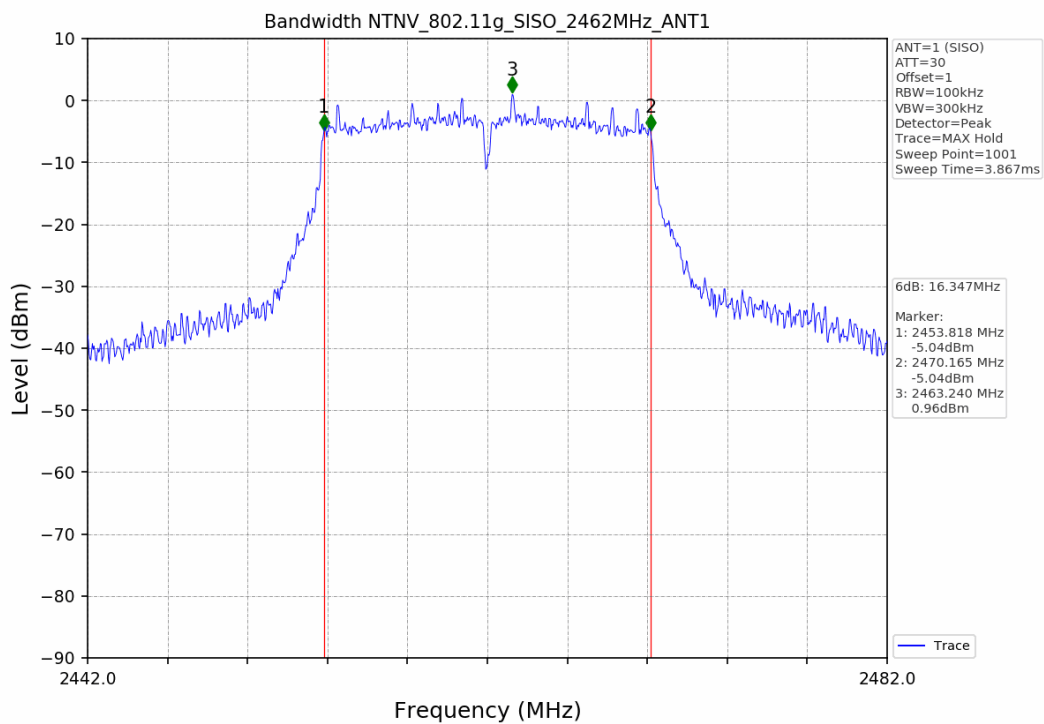
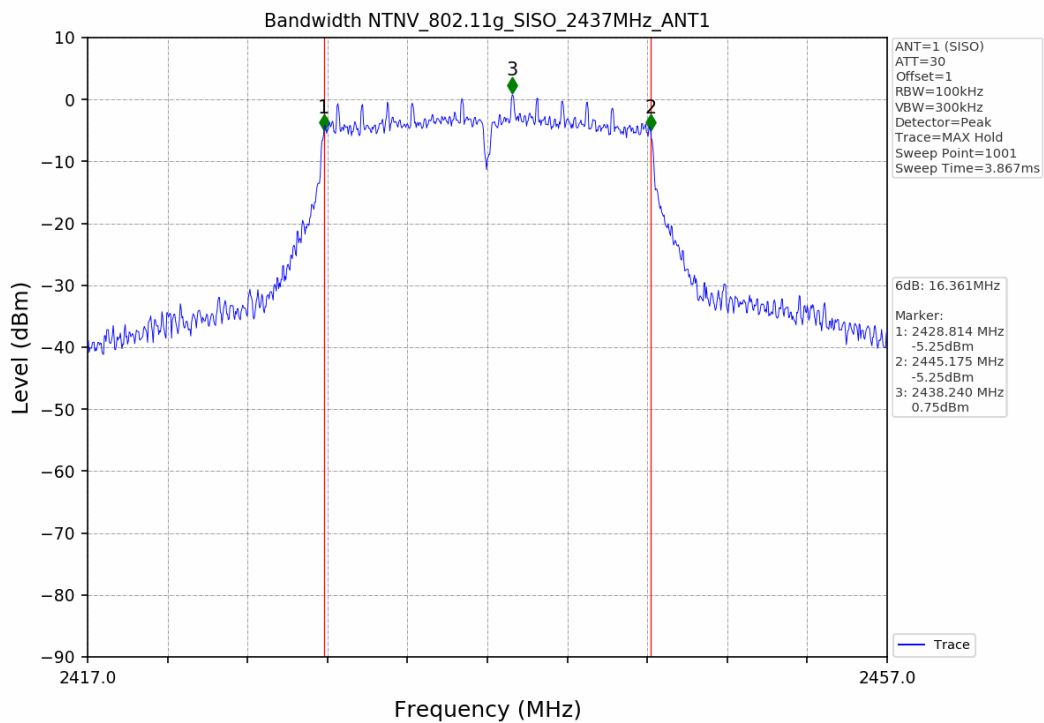
| Test Mode     | Frequency (MHz) | TX Type | ANT No. | 6dB Bandwidth     |              | Verdict |
|---------------|-----------------|---------|---------|-------------------|--------------|---------|
|               |                 |         |         | Test Result (MHz) | Limits (MHz) |         |
| 802.11b       | 2412            | SISO    | 1       | 9.622             | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 10.082            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 10.086            | ≥0.5         | PASS    |
| 802.11g       | 2412            | SISO    | 1       | 16.388            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 16.361            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 16.347            | ≥0.5         | PASS    |
| 802.11n(HT20) | 2412            | SISO    | 1       | 17.596            | ≥0.5         | PASS    |
|               | 2437            | SISO    | 1       | 17.596            | ≥0.5         | PASS    |
|               | 2462            | SISO    | 1       | 17.535            | ≥0.5         | PASS    |

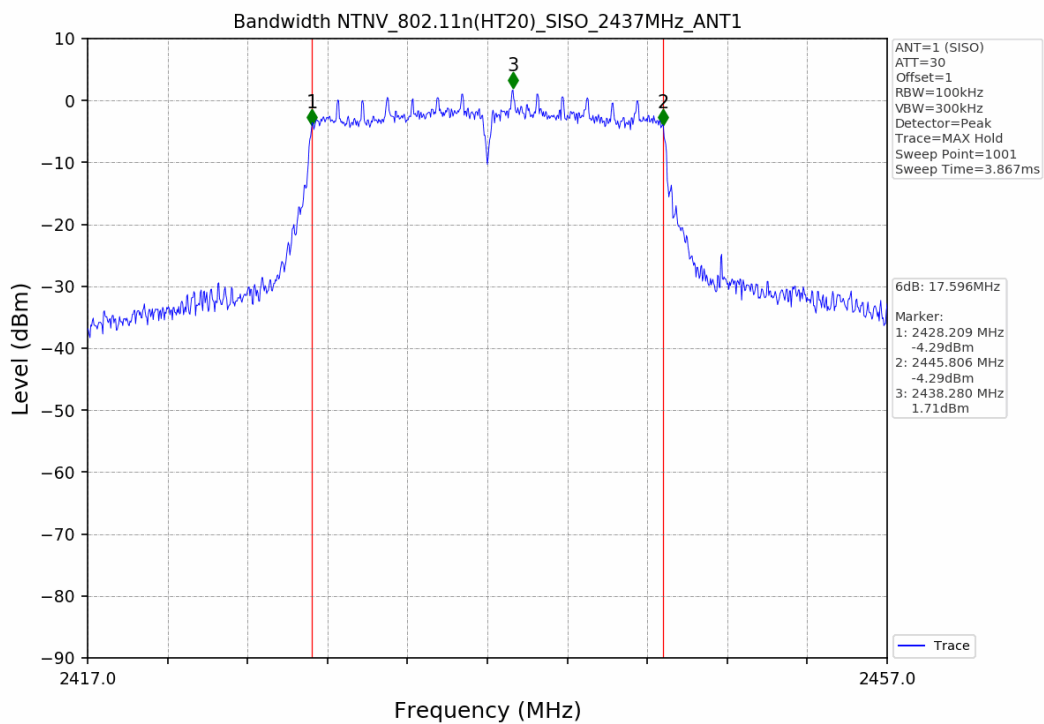
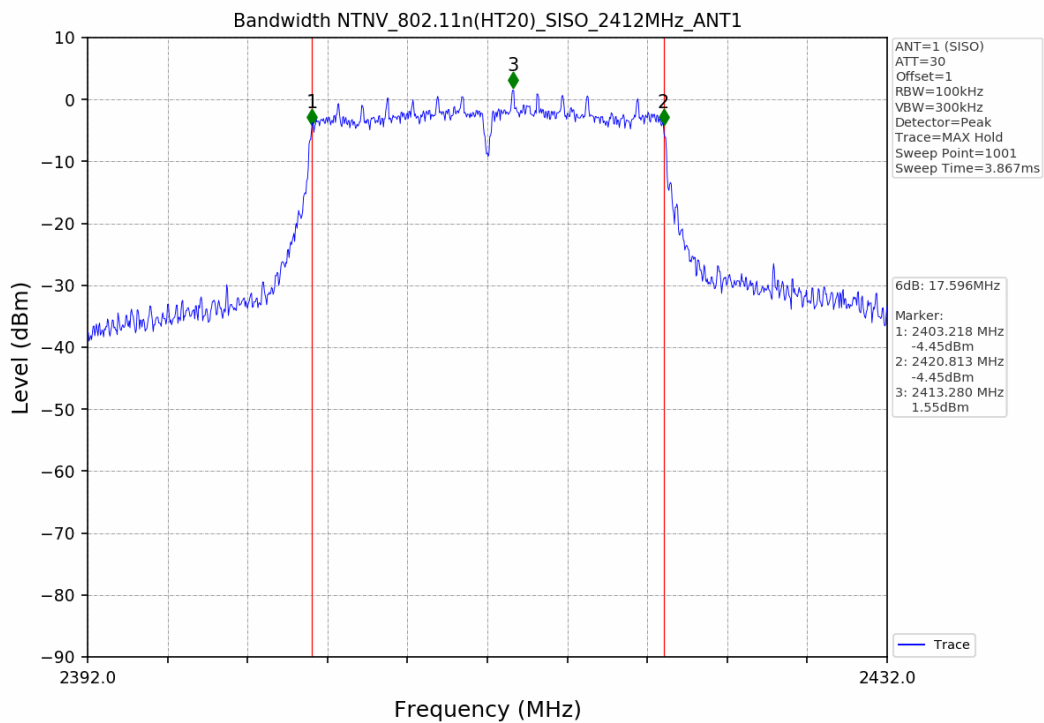
| Test Mode     | Frequency (MHz) | TX Type | ANT No. | 99% Occupied Bandwidth |                     |
|---------------|-----------------|---------|---------|------------------------|---------------------|
|               |                 |         |         | Test Result (MHz)      |                     |
| 802.11b       | 2412            | SISO    | 1       | 12.044                 | Only for Report Use |
|               | 2437            | SISO    | 1       | 12.069                 | Only for Report Use |
|               | 2462            | SISO    | 1       | 12.045                 | Only for Report Use |
| 802.11g       | 2412            | SISO    | 1       | 17.005                 | Only for Report Use |
|               | 2437            | SISO    | 1       | 17.057                 | Only for Report Use |
|               | 2462            | SISO    | 1       | 16.988                 | Only for Report Use |
| 802.11n(HT20) | 2412            | SISO    | 1       | 17.984                 | Only for Report Use |
|               | 2437            | SISO    | 1       | 17.977                 | Only for Report Use |
|               | 2462            | SISO    | 1       | 17.974                 | Only for Report Use |

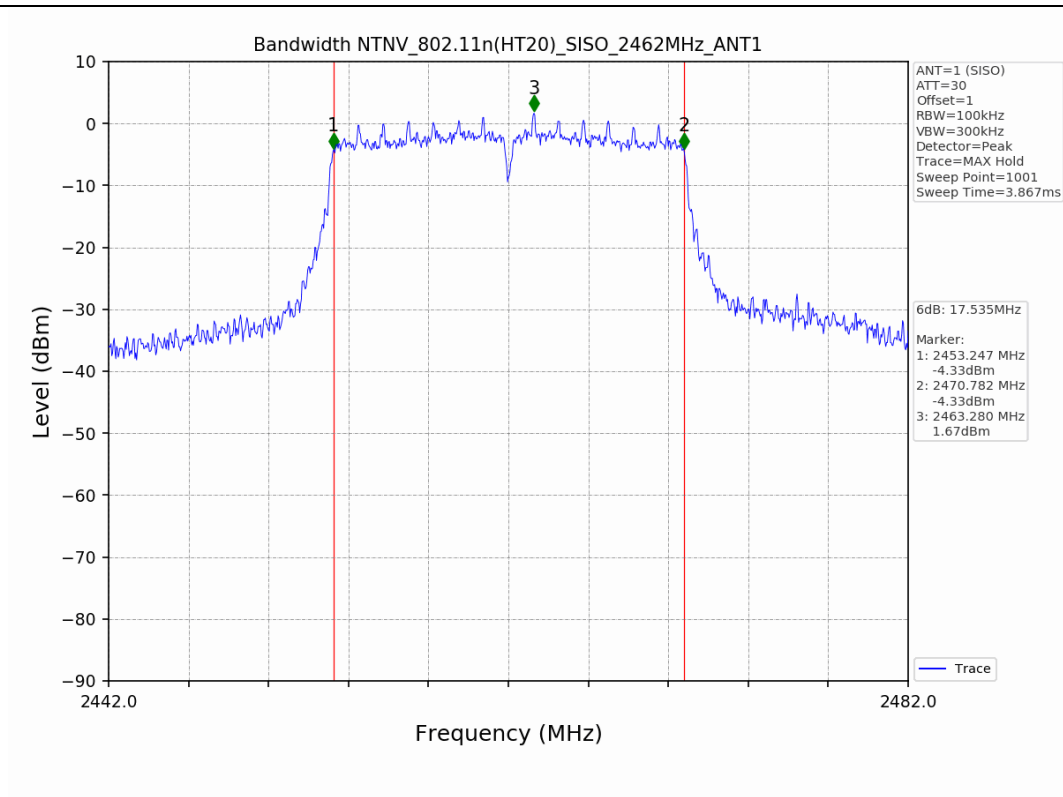
#### 1.2 Test Graph - 6dB Bandwidth



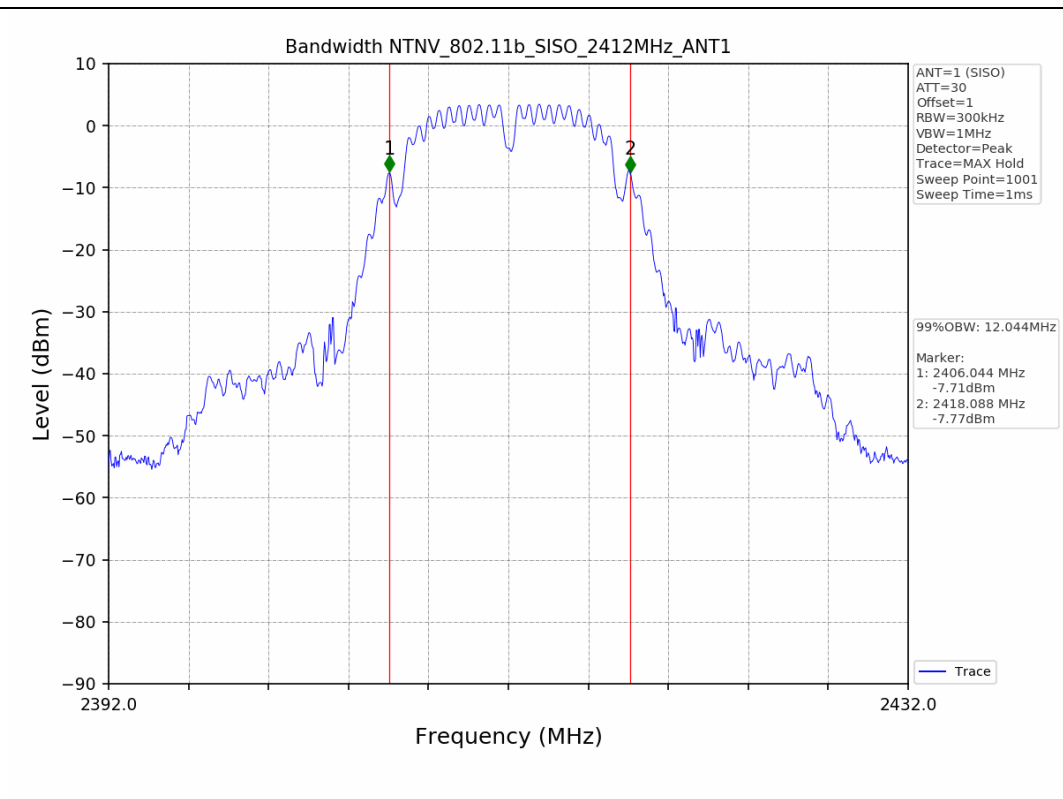


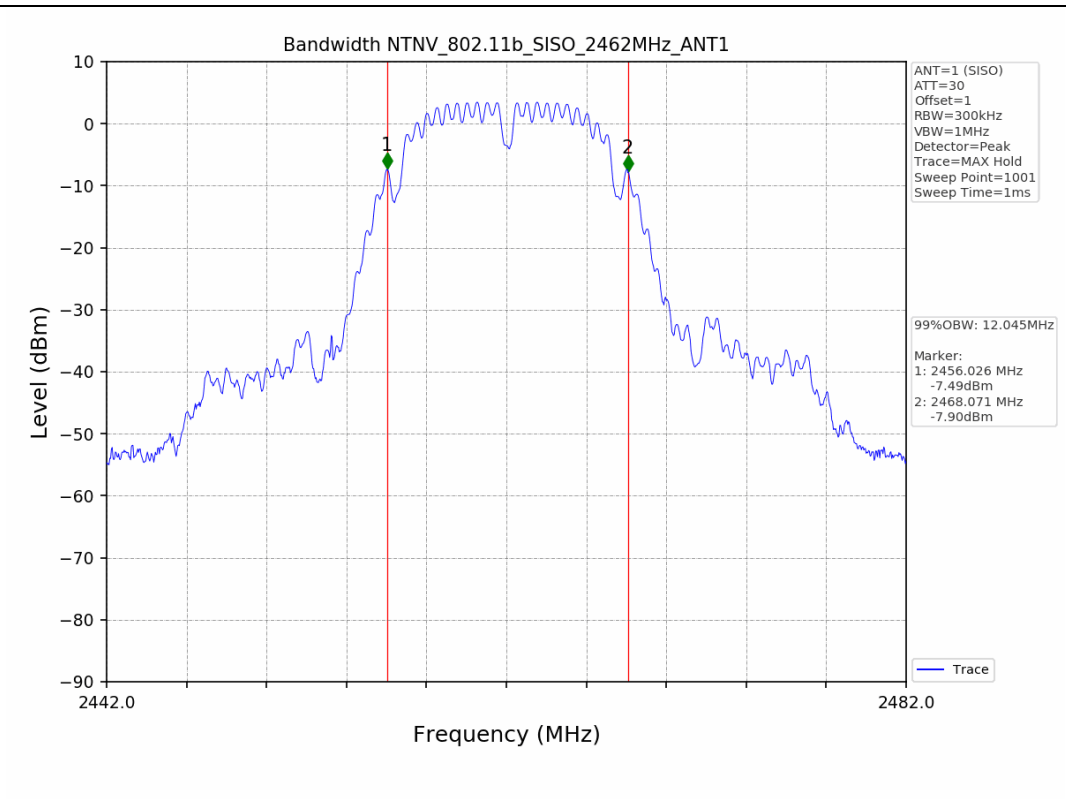
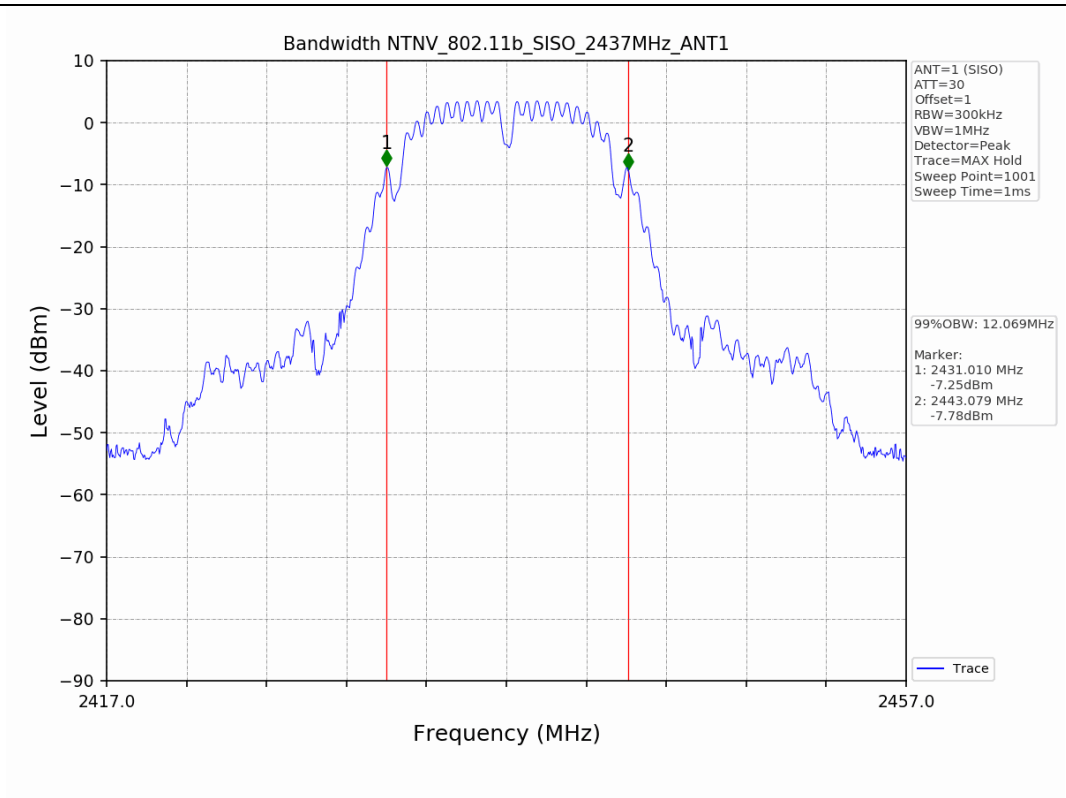


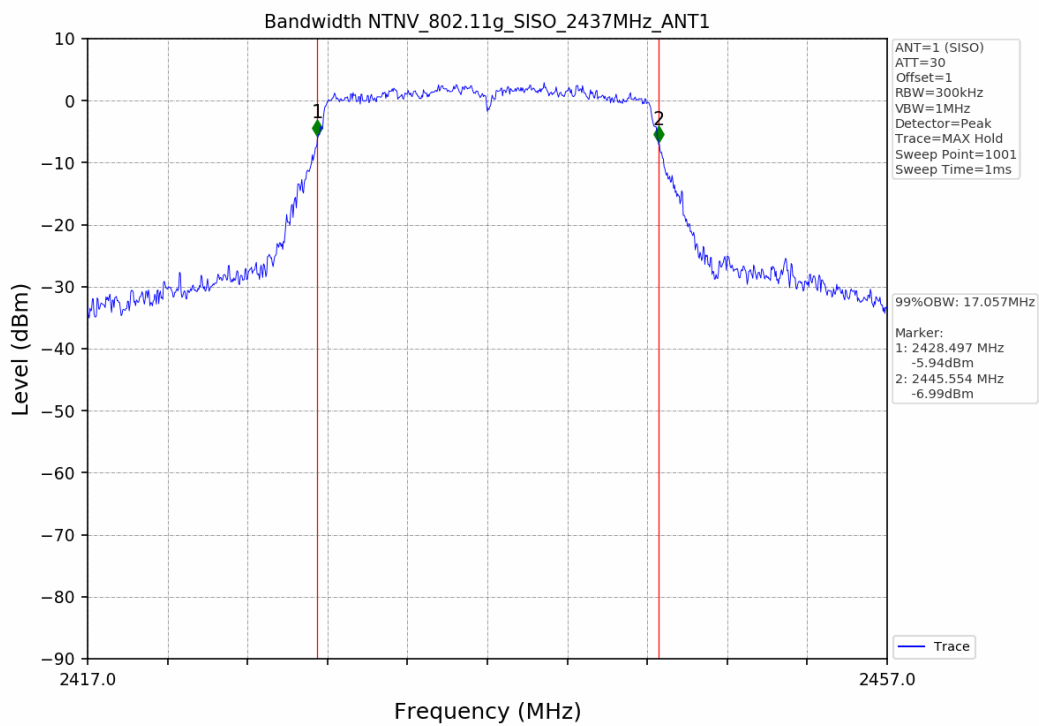
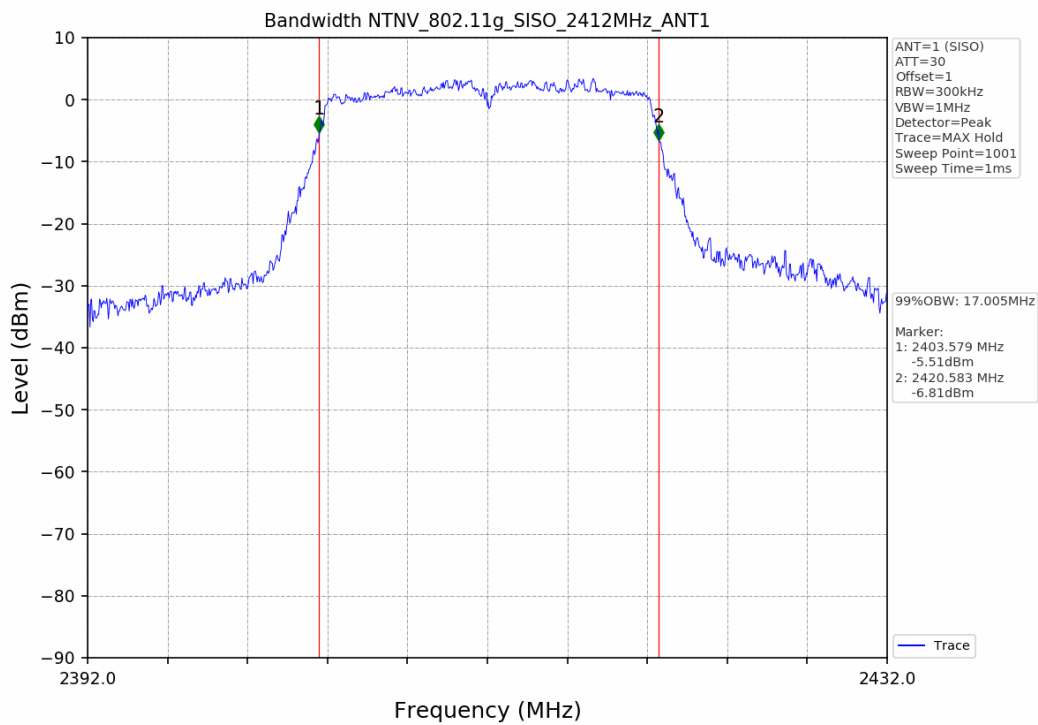




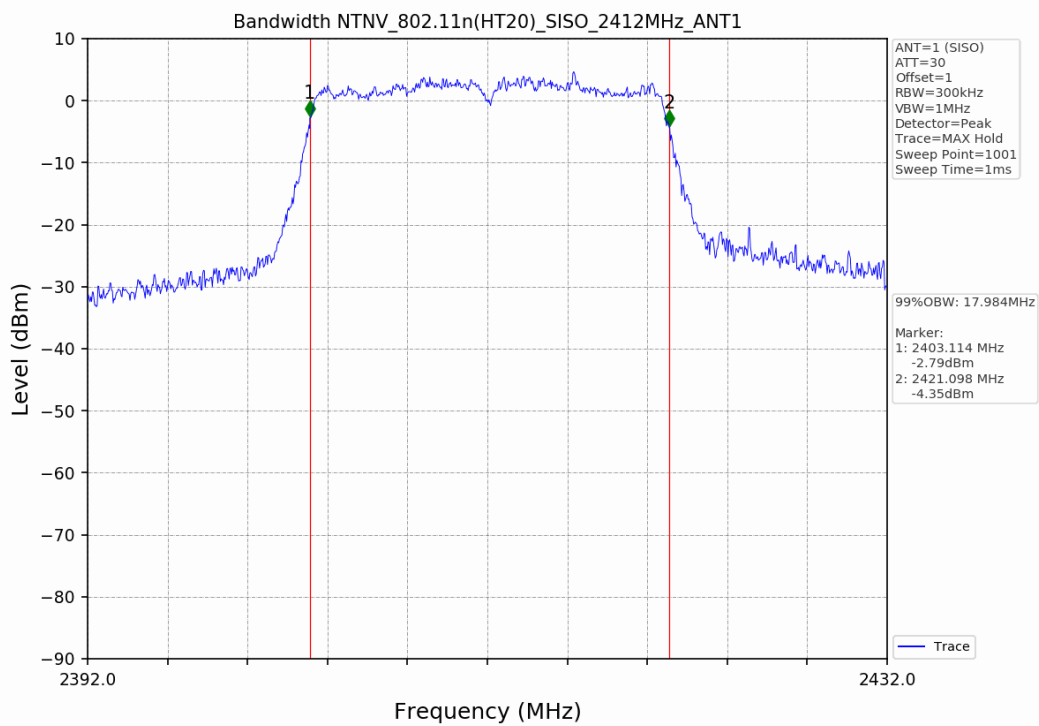
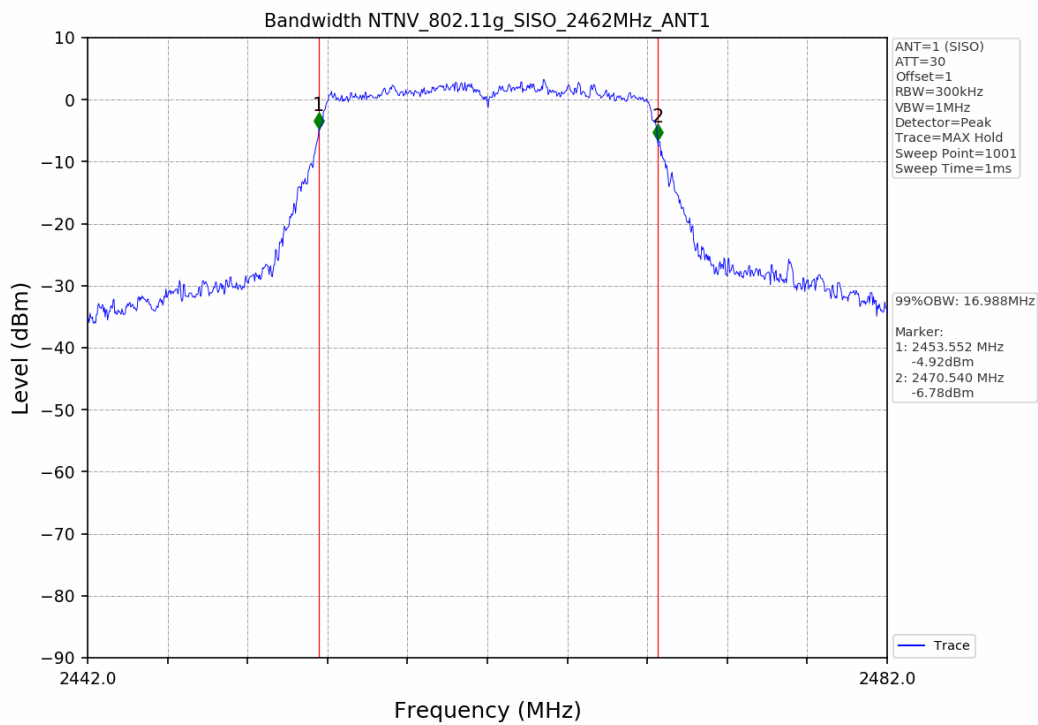
### 1.3 Test Graph - 99% Occupied Bandwidth

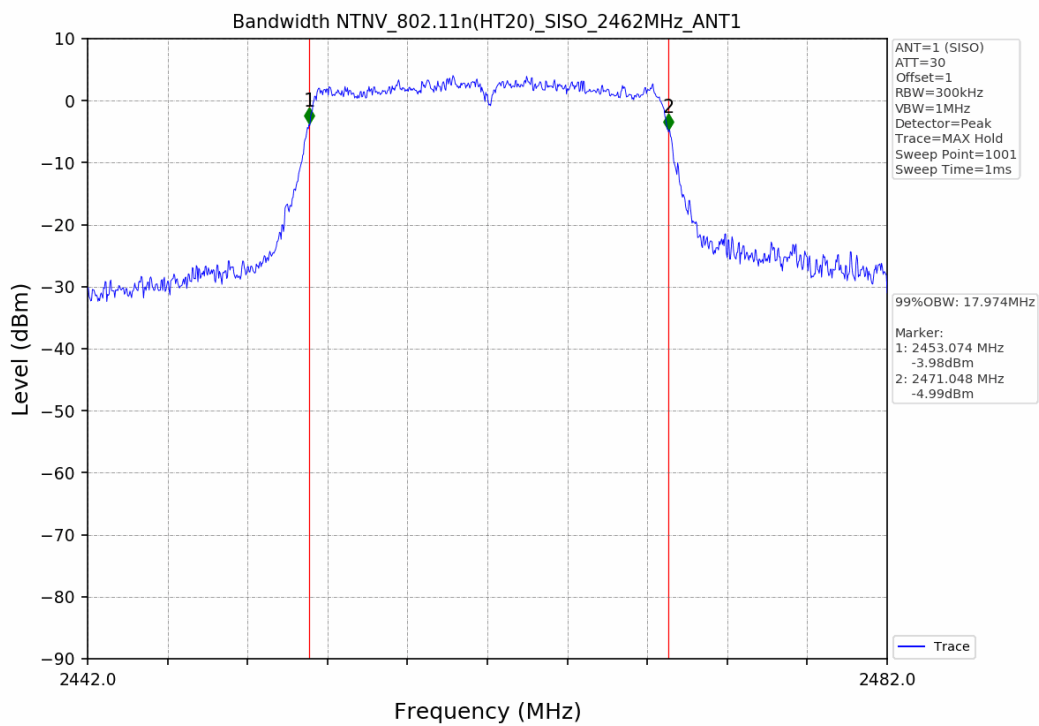
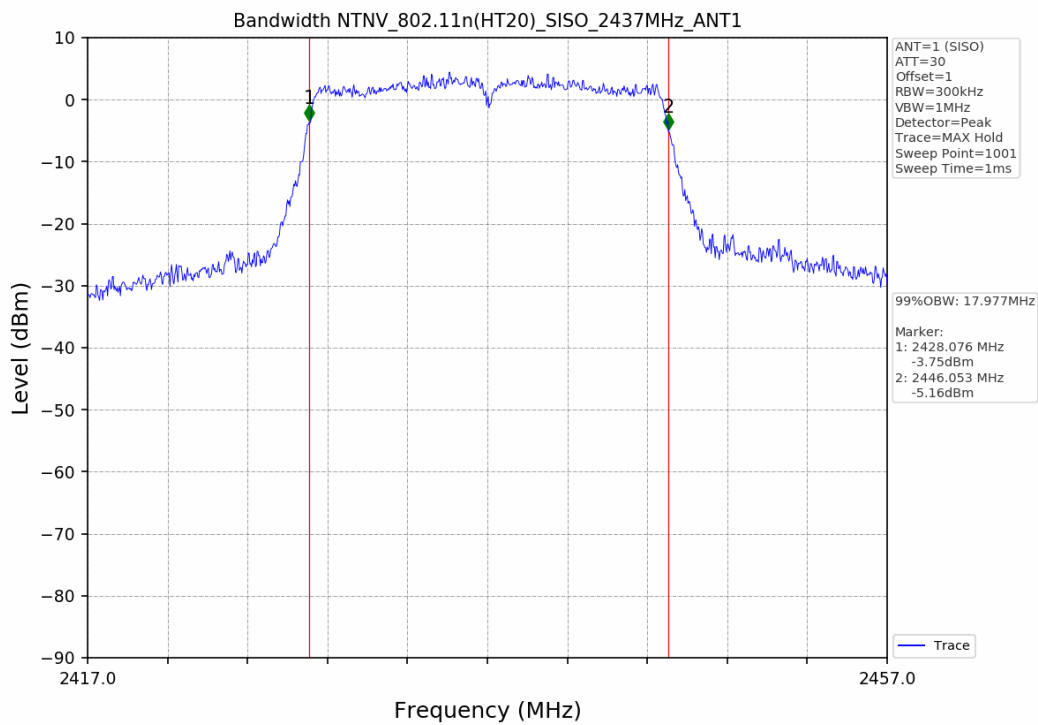










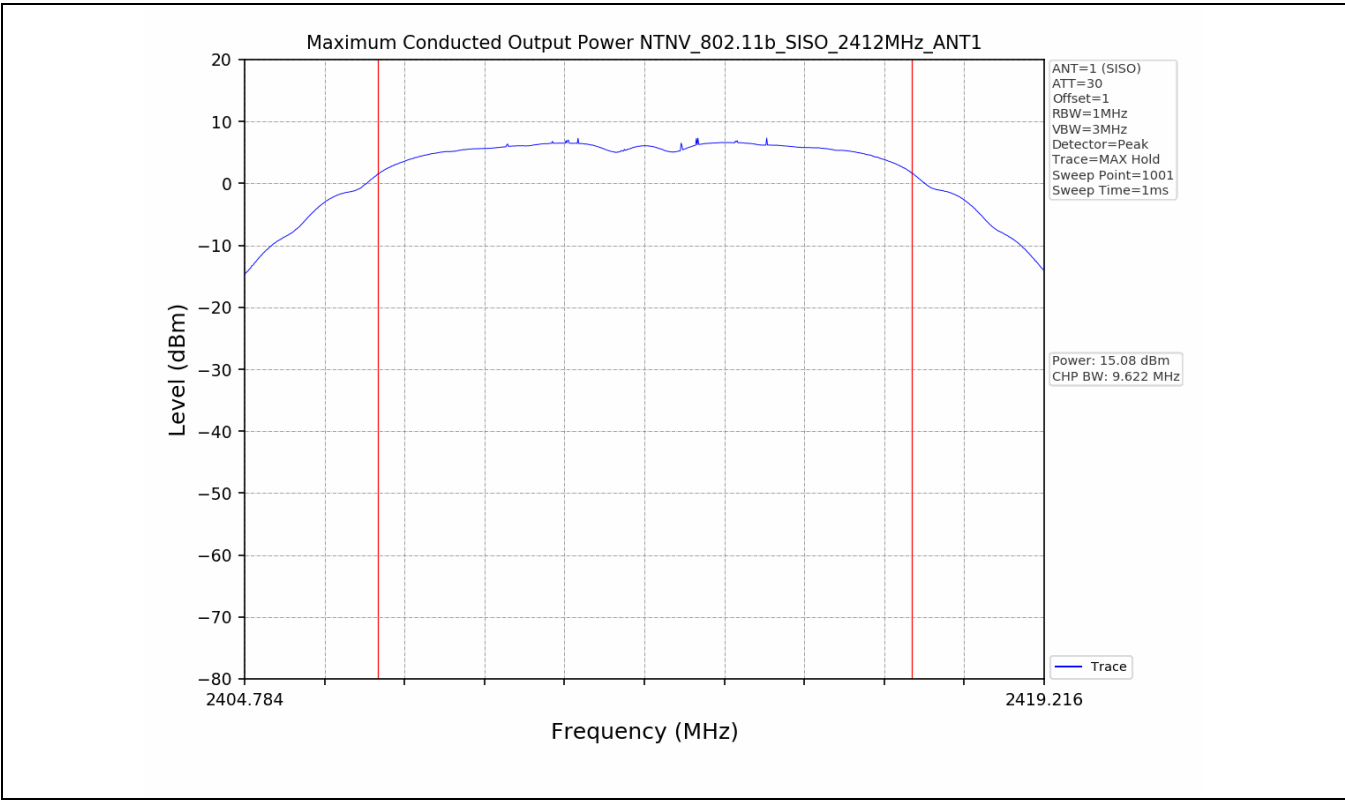


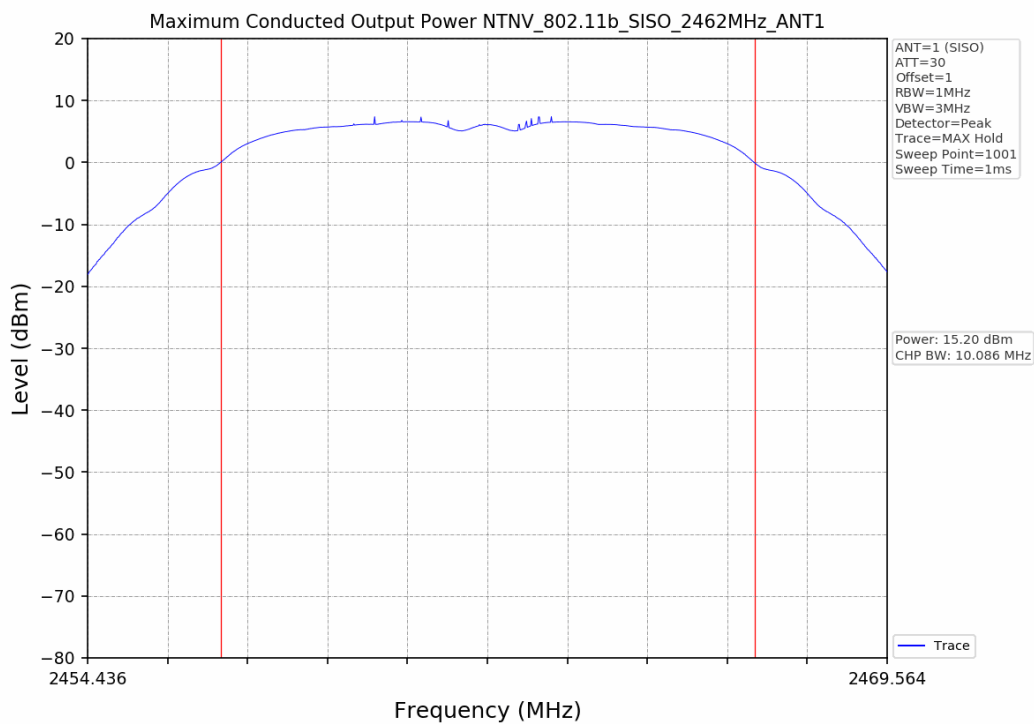
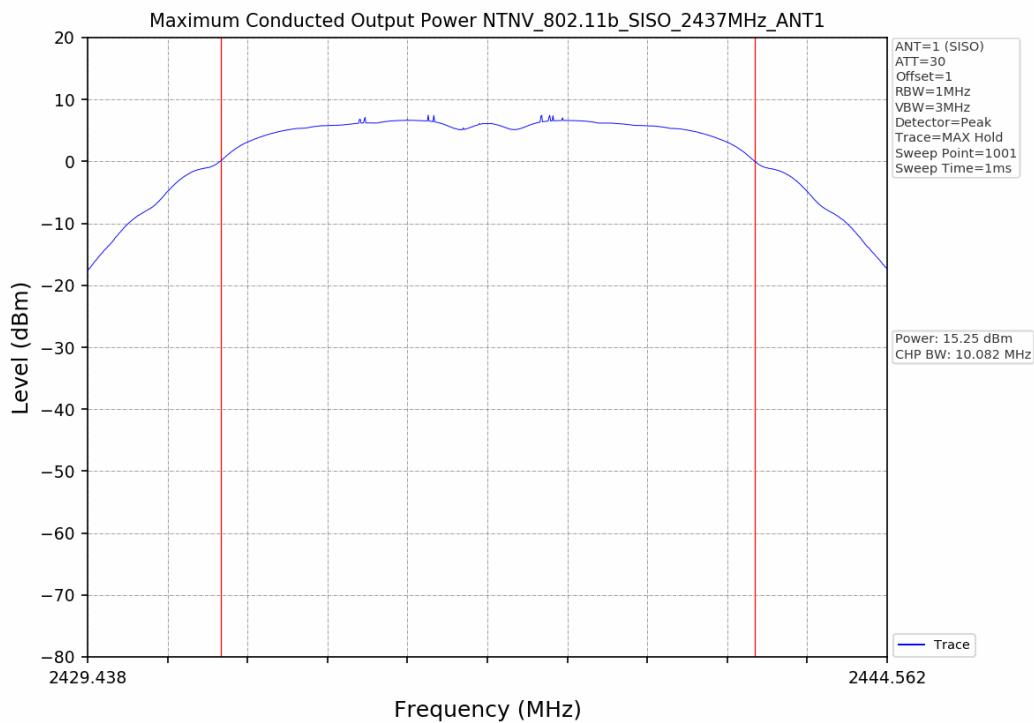
## 2. Maximum Conducted Output Power

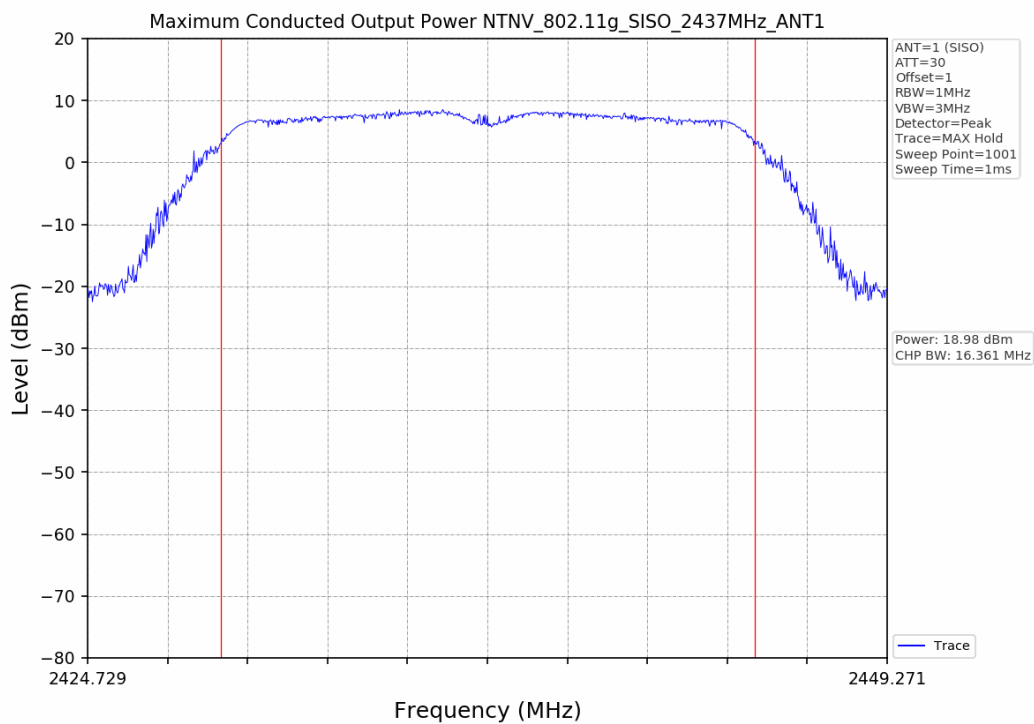
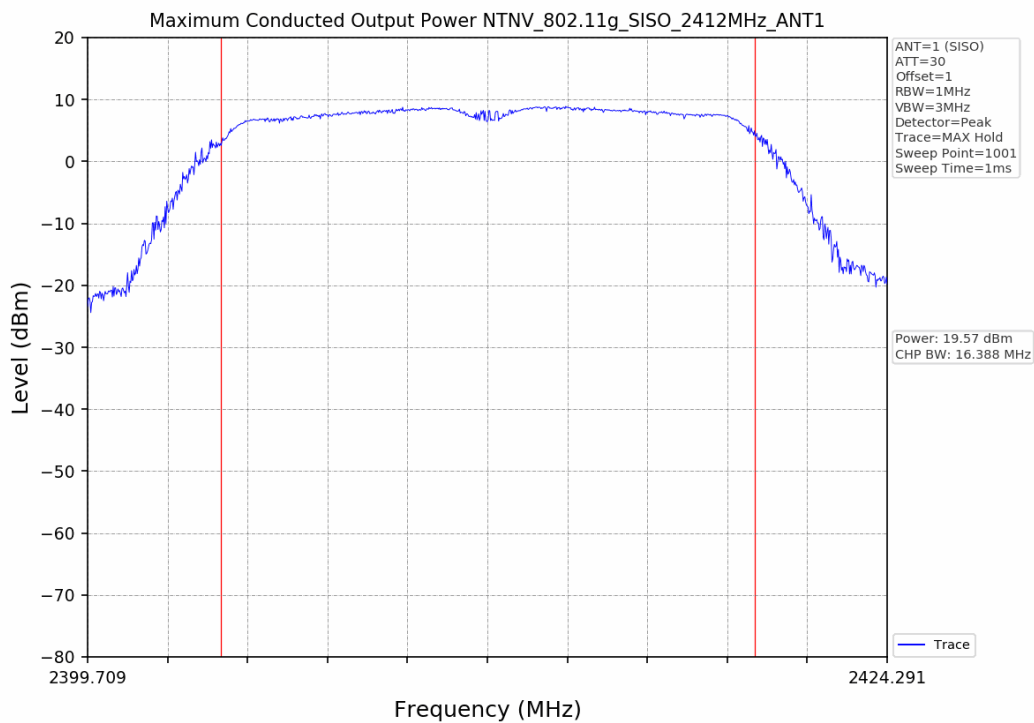
### 2.1 Test Result

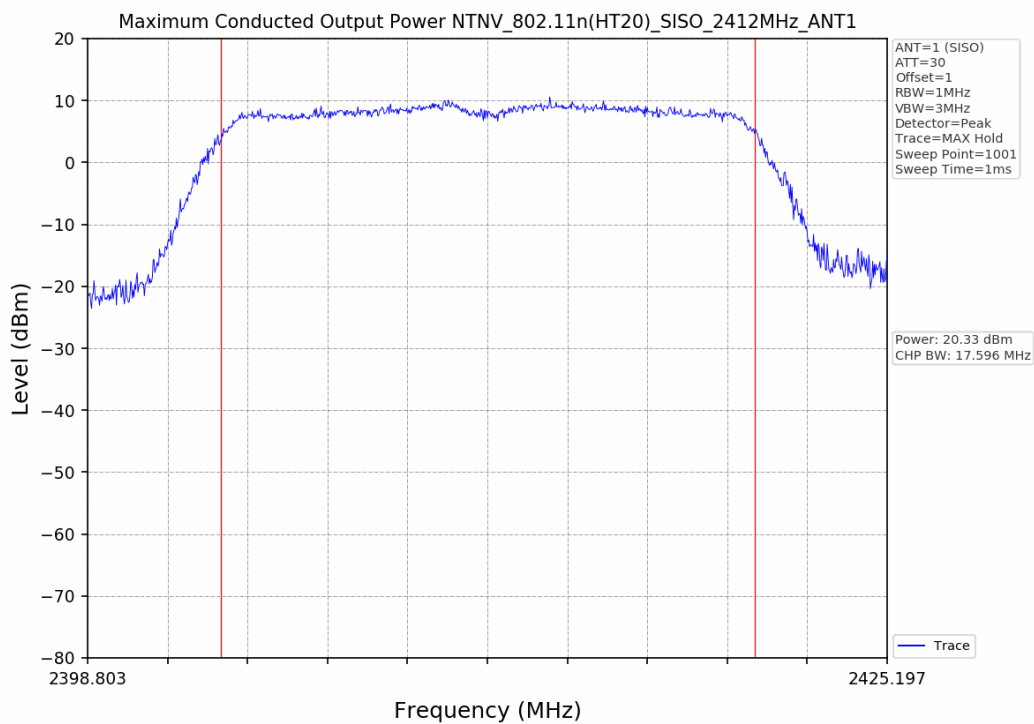
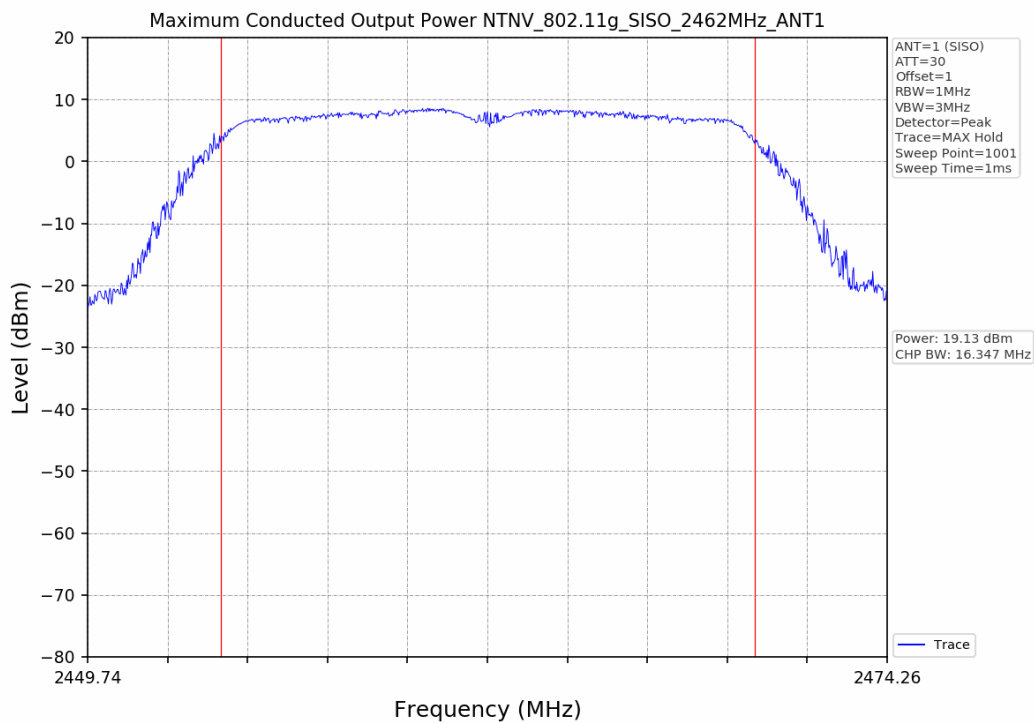
| Test Mode     | Frequency (MHz) | Tx Type | Measured Peak Output Power (dBm) | Limits (dBm) | Verdict |
|---------------|-----------------|---------|----------------------------------|--------------|---------|
|               |                 |         | Ant 1                            |              |         |
| 802.11b       | 2412            | SISO    | 15.08                            | 30           | PASS    |
|               | 2437            | SISO    | 15.25                            | 30           | PASS    |
|               | 2462            | SISO    | 15.20                            | 30           | PASS    |
| 802.11g       | 2412            | SISO    | 19.57                            | 30           | PASS    |
|               | 2437            | SISO    | 18.98                            | 30           | PASS    |
|               | 2462            | SISO    | 19.13                            | 30           | PASS    |
| 802.11n(HT20) | 2412            | SISO    | 20.33                            | 30           | PASS    |
|               | 2437            | SISO    | 20.68                            | 30           | PASS    |
|               | 2462            | SISO    | 20.40                            | 30           | PASS    |

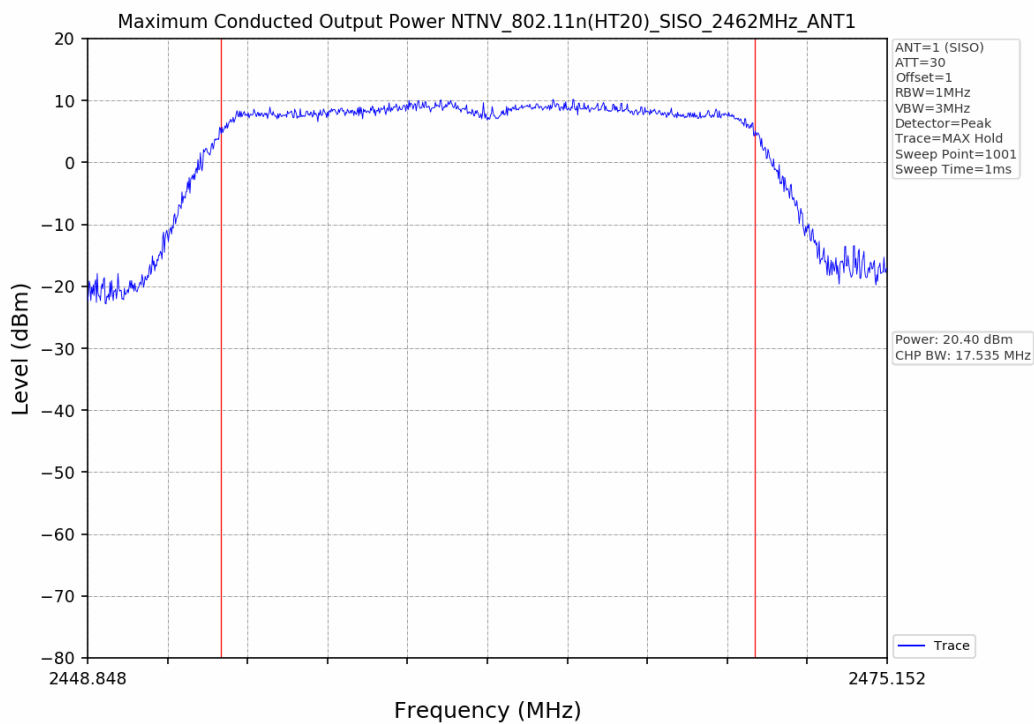
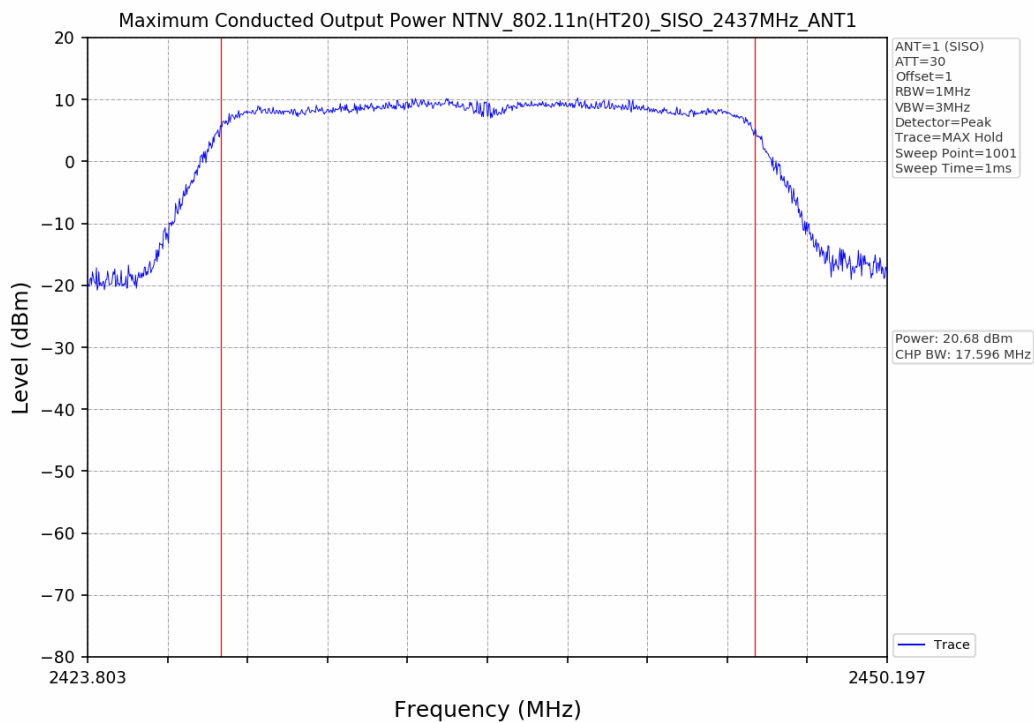
### 2.2 Test Graph









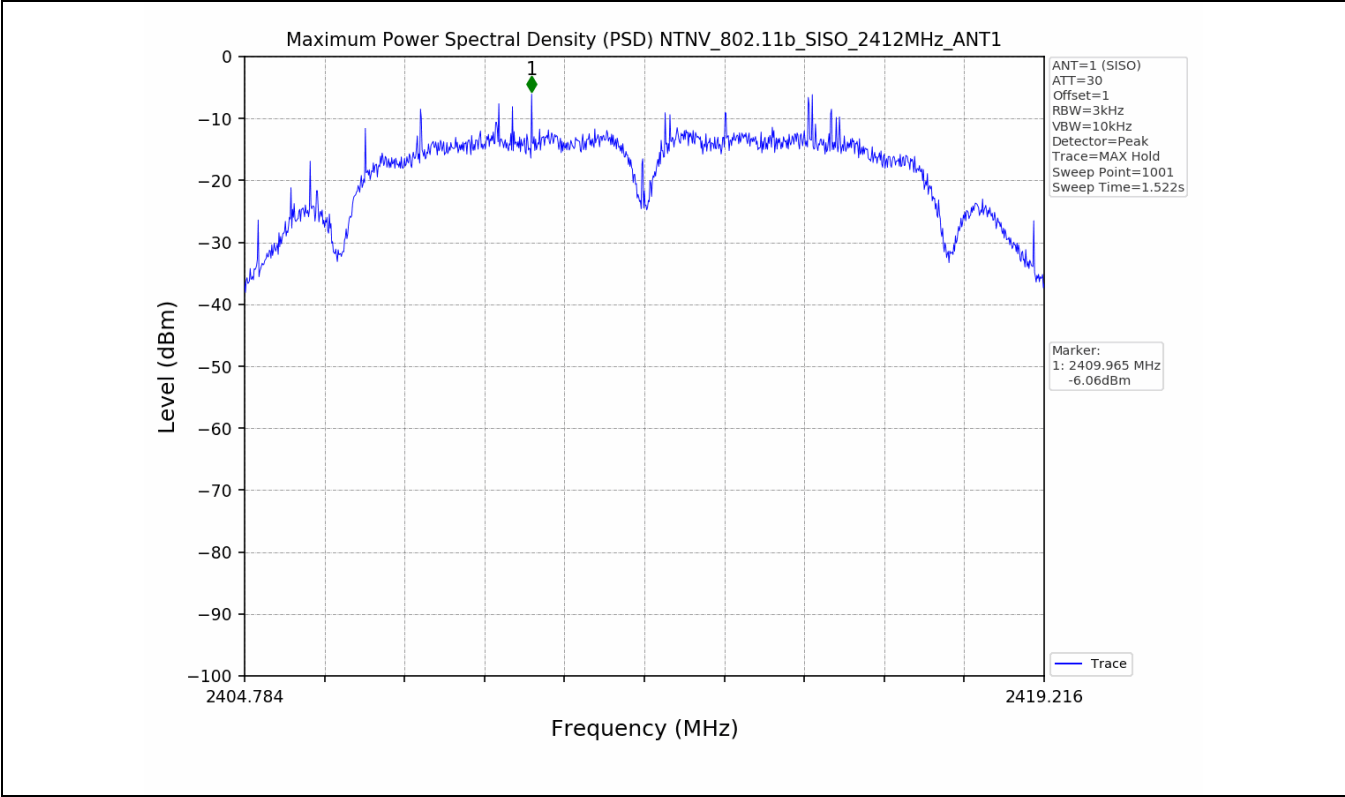


### 3. Maximum Power Spectral Density (PSD)

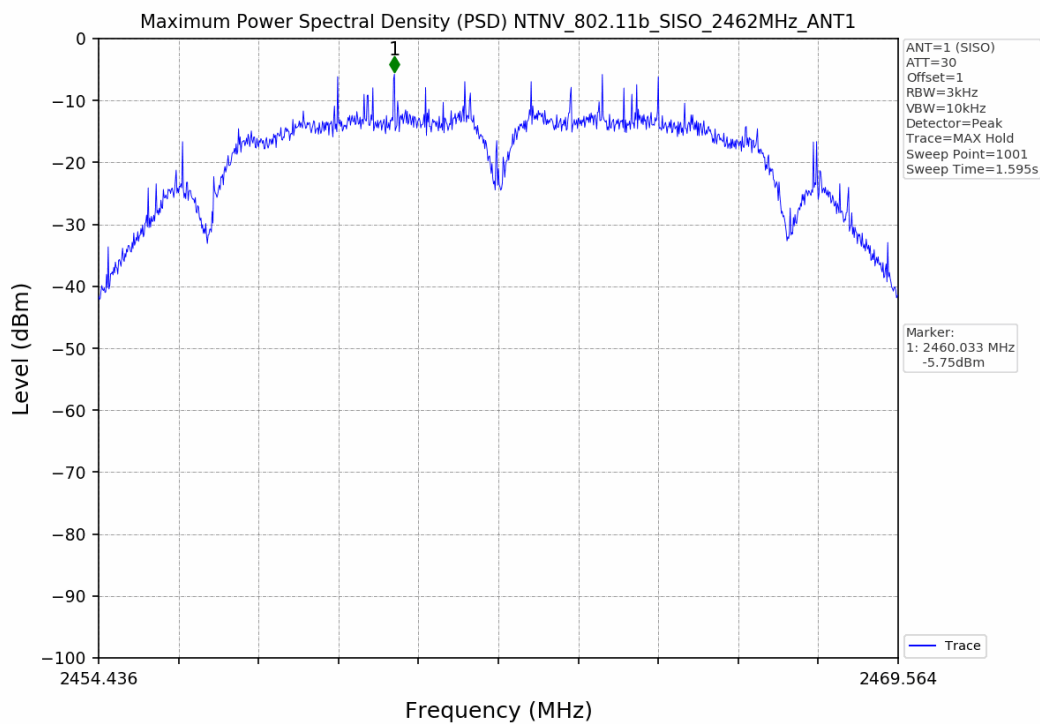
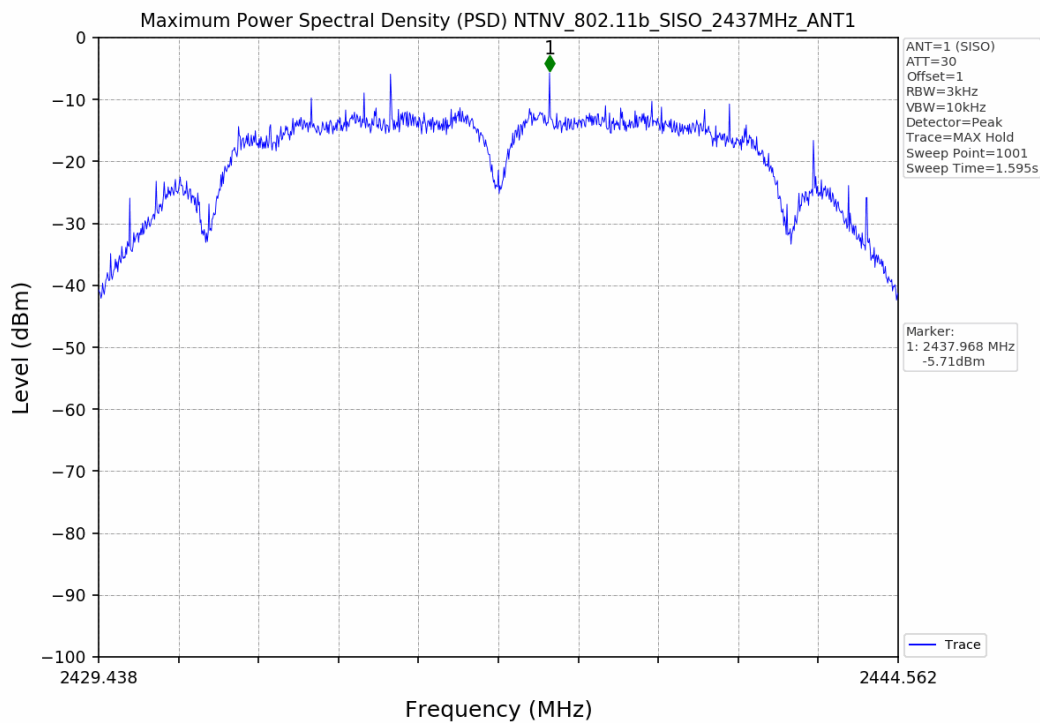
#### 3.1 Test Result

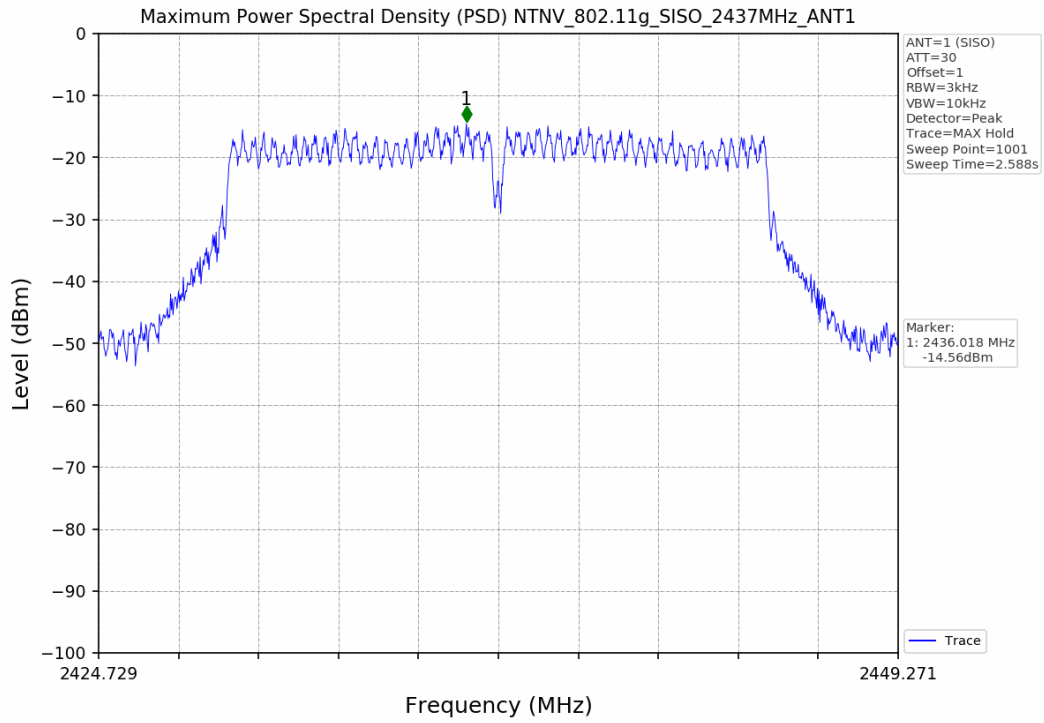
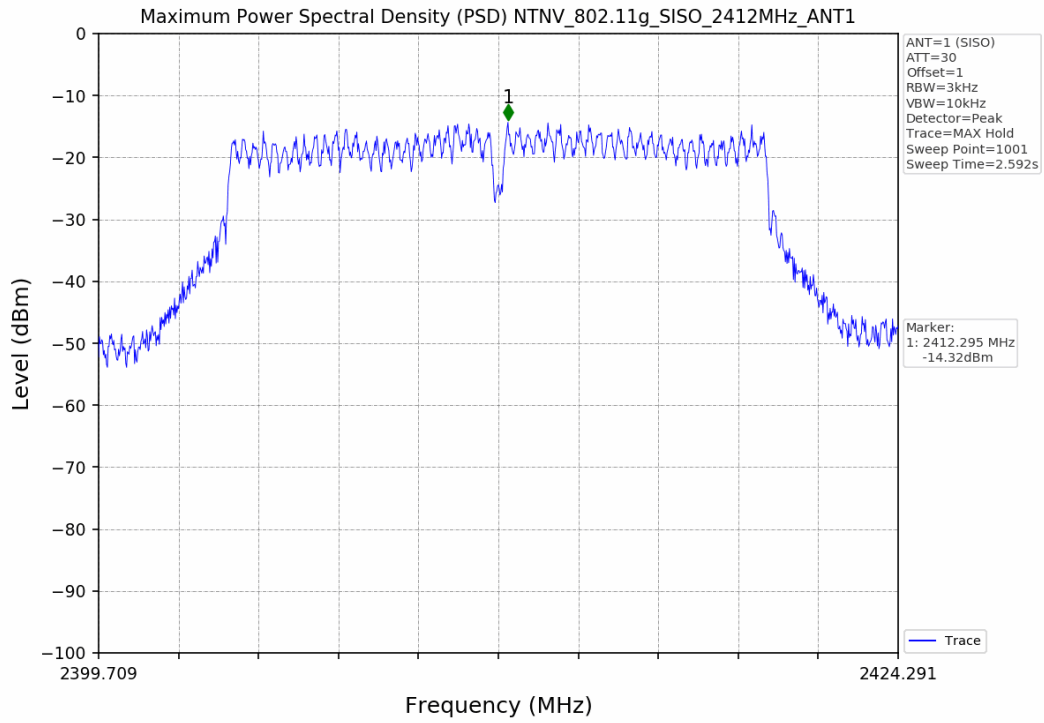
| Test Mode     | Frequency (MHz) | Tx Type | Maximum Power Spectral Density (dBm/3KHz) | Limits (dBm/3kHz) | Verdict |
|---------------|-----------------|---------|-------------------------------------------|-------------------|---------|
|               |                 |         | Ant 1                                     |                   |         |
| 802.11b       | 2412            | SISO    | -6.06                                     | ≤8                | PASS    |
|               | 2437            | SISO    | -5.71                                     | ≤8                | PASS    |
|               | 2462            | SISO    | -5.75                                     | ≤8                | PASS    |
| 802.11g       | 2412            | SISO    | -14.32                                    | ≤8                | PASS    |
|               | 2437            | SISO    | -14.56                                    | ≤8                | PASS    |
|               | 2462            | SISO    | -14.48                                    | ≤8                | PASS    |
| 802.11n(HT20) | 2412            | SISO    | -13.09                                    | ≤8                | PASS    |
|               | 2437            | SISO    | -13.28                                    | ≤8                | PASS    |
|               | 2462            | SISO    | -13.66                                    | ≤8                | PASS    |

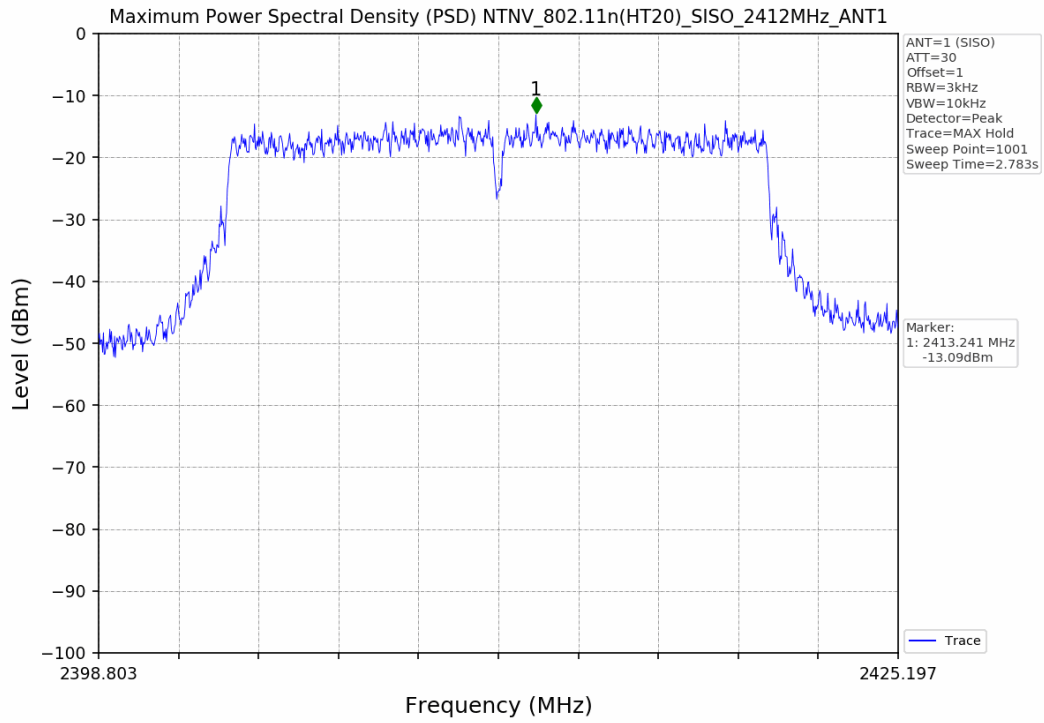
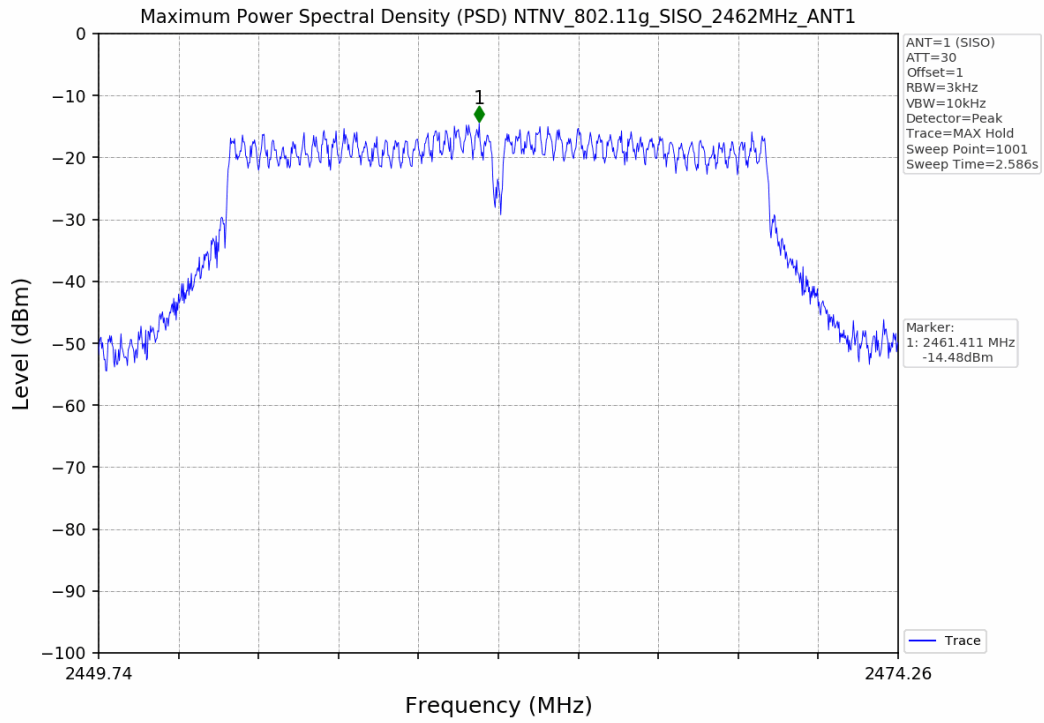
#### 3.2 Test Graph

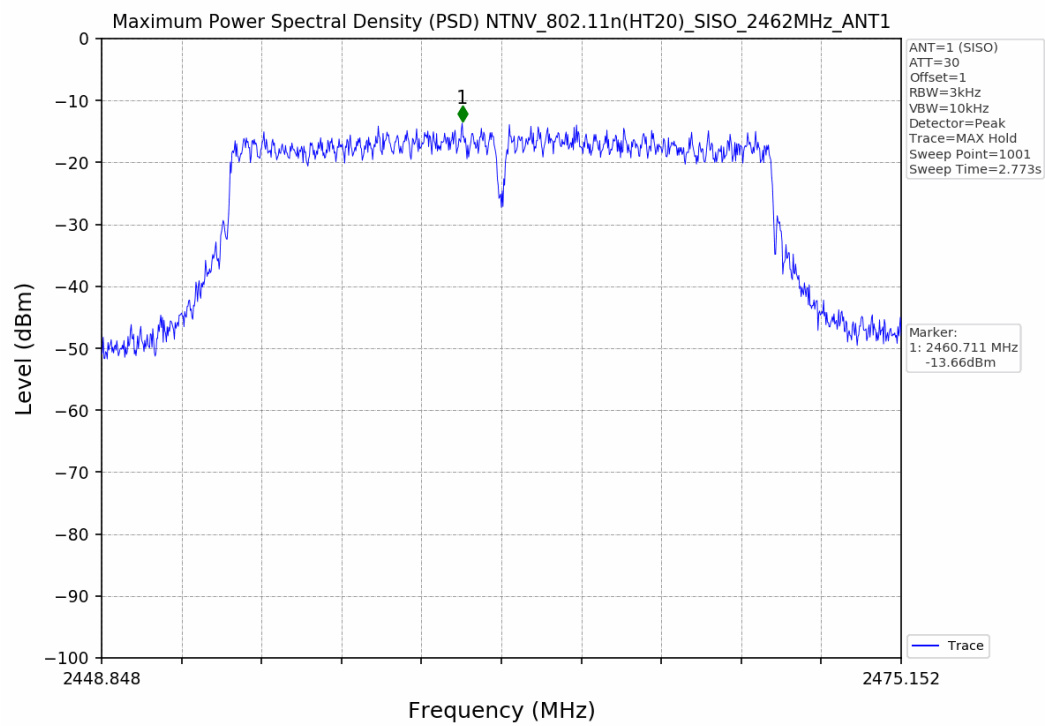
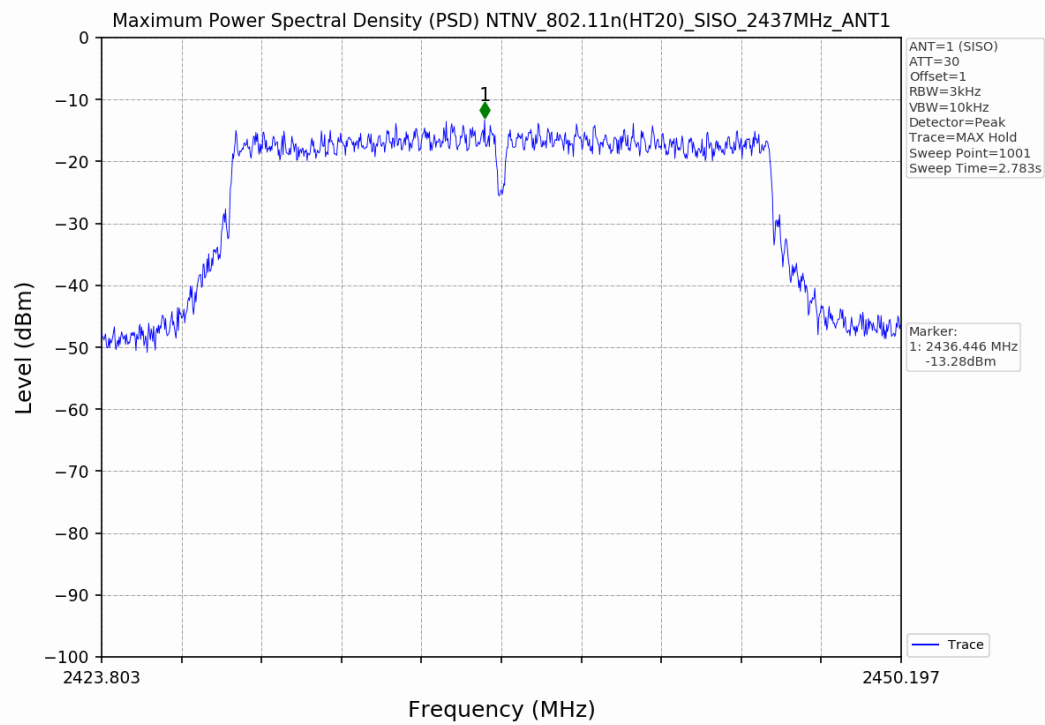










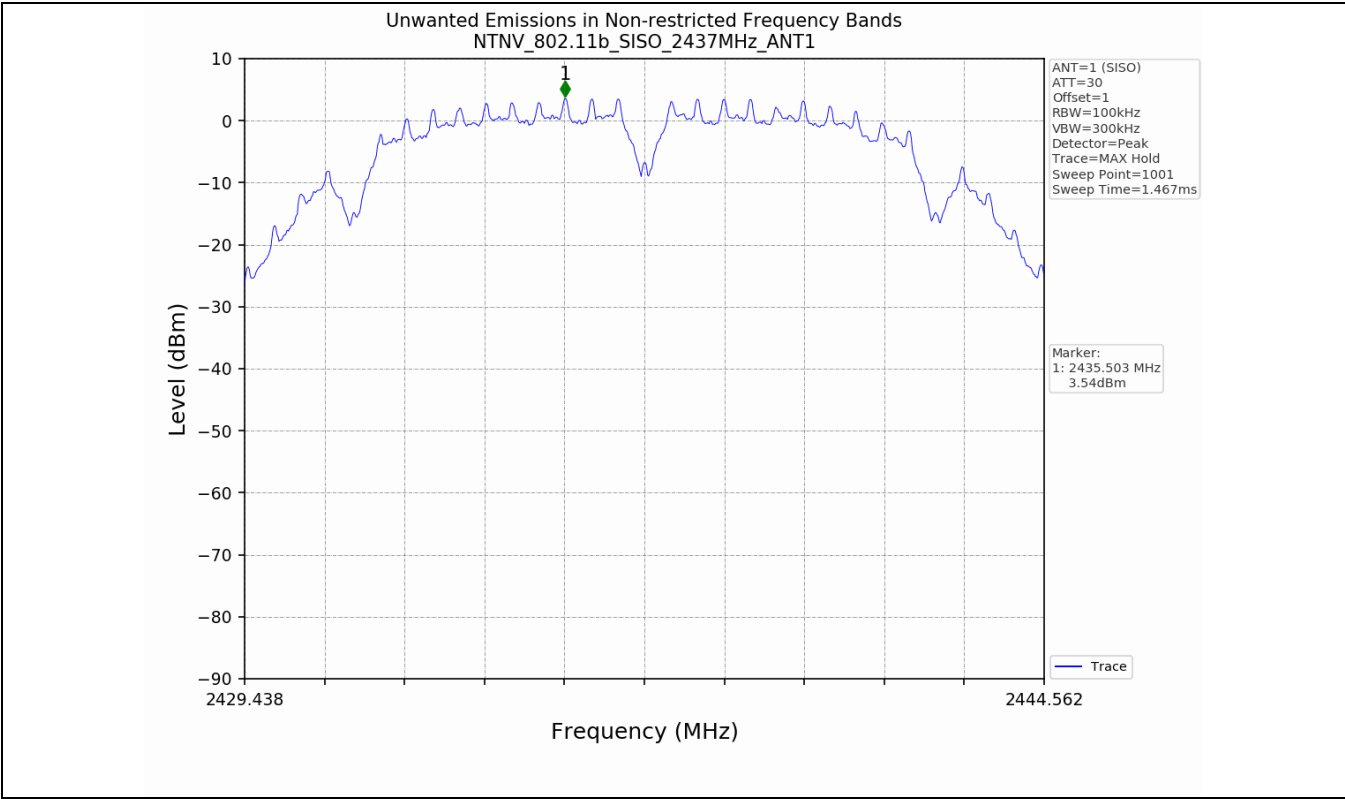


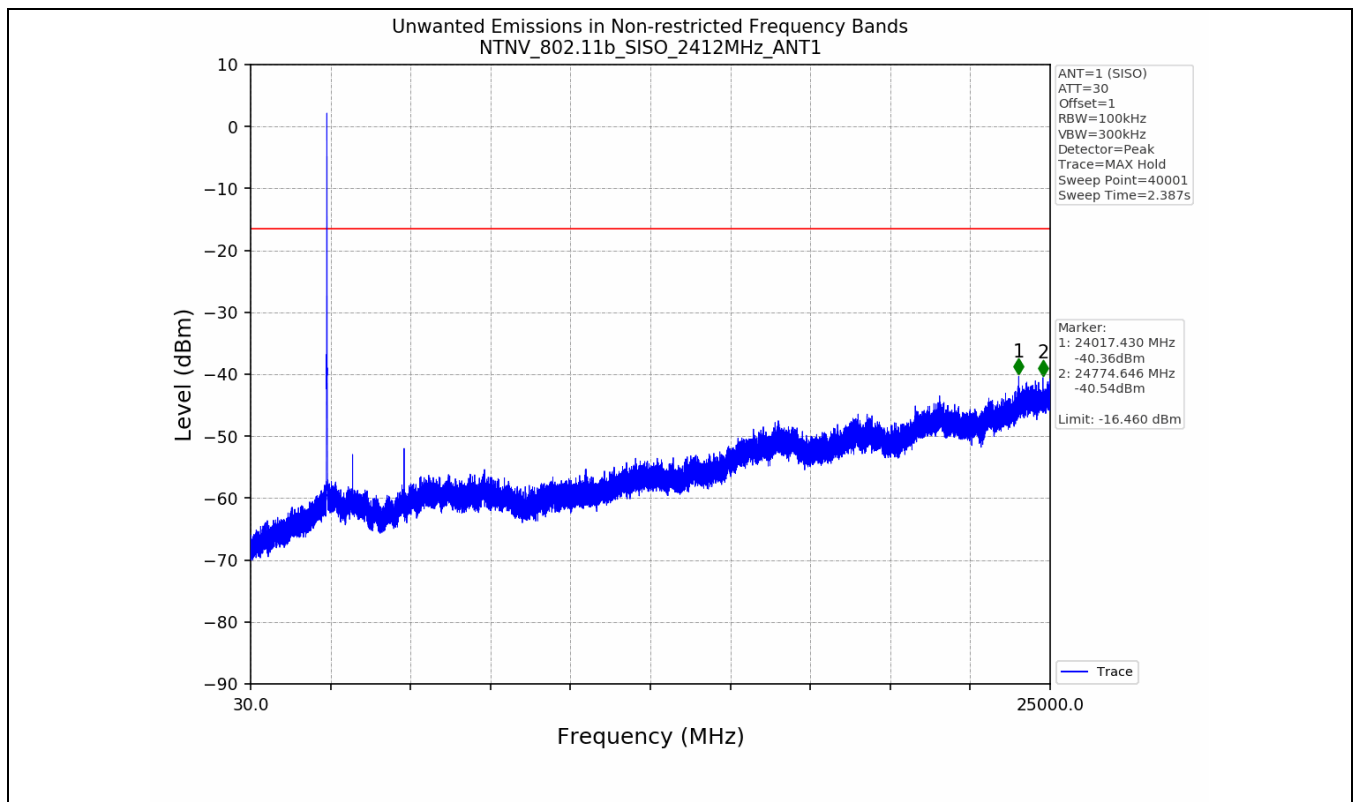
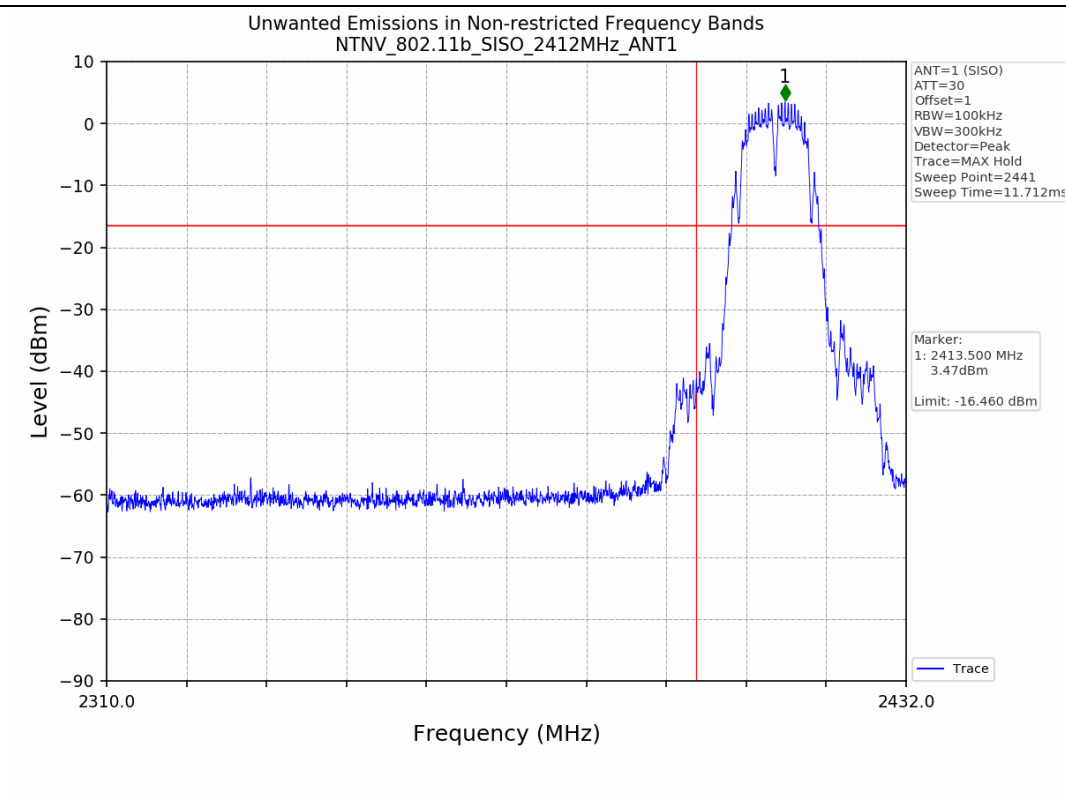
## 4. Unwanted Emissions in Non-restricted Frequency Bands

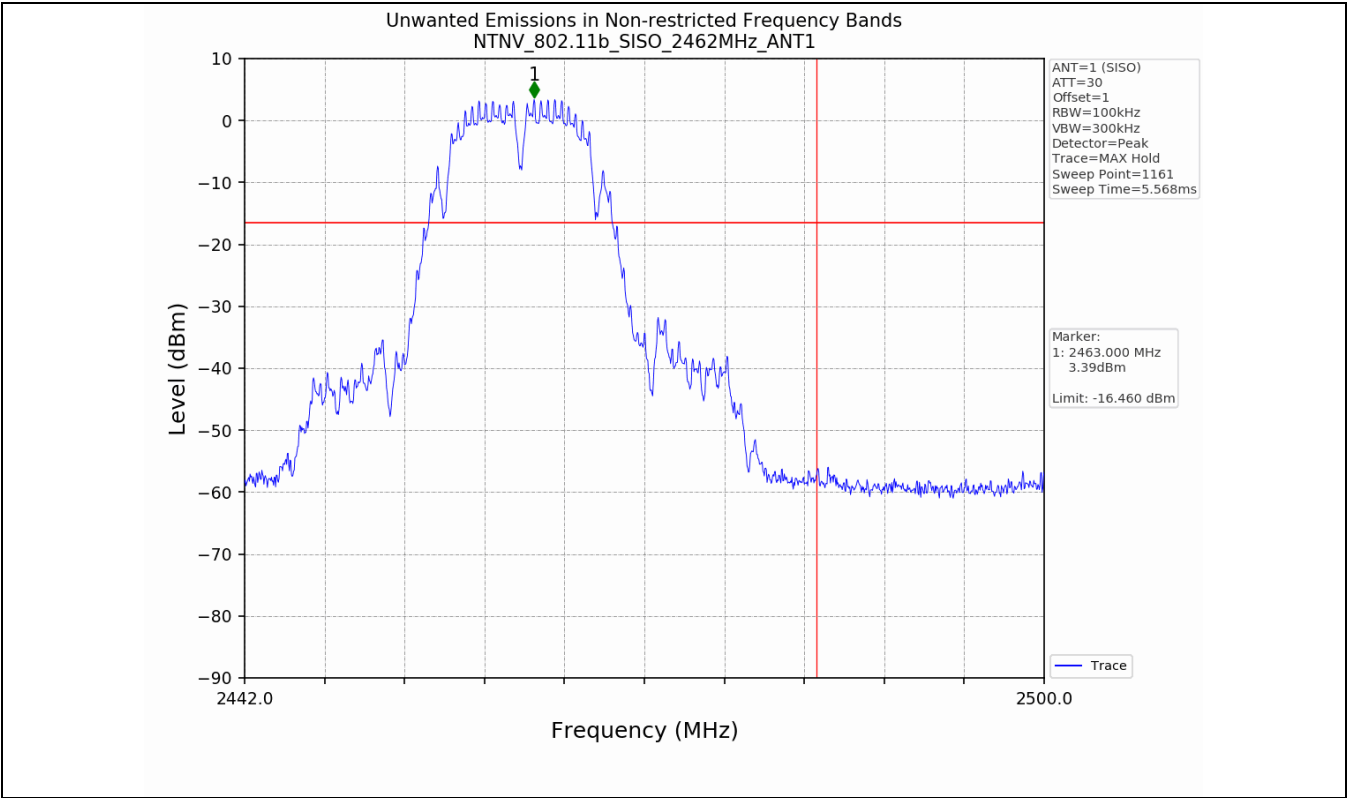
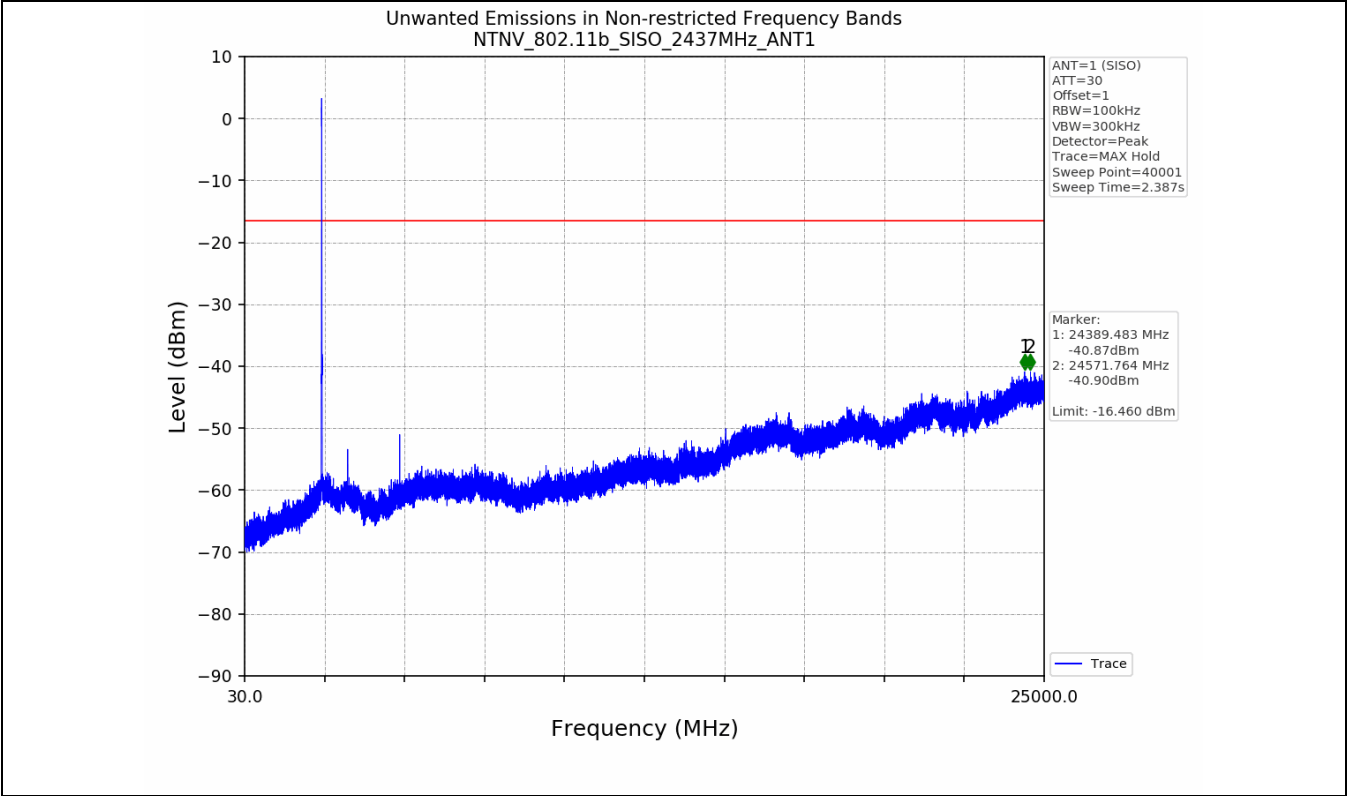
### 4.1 Test Result

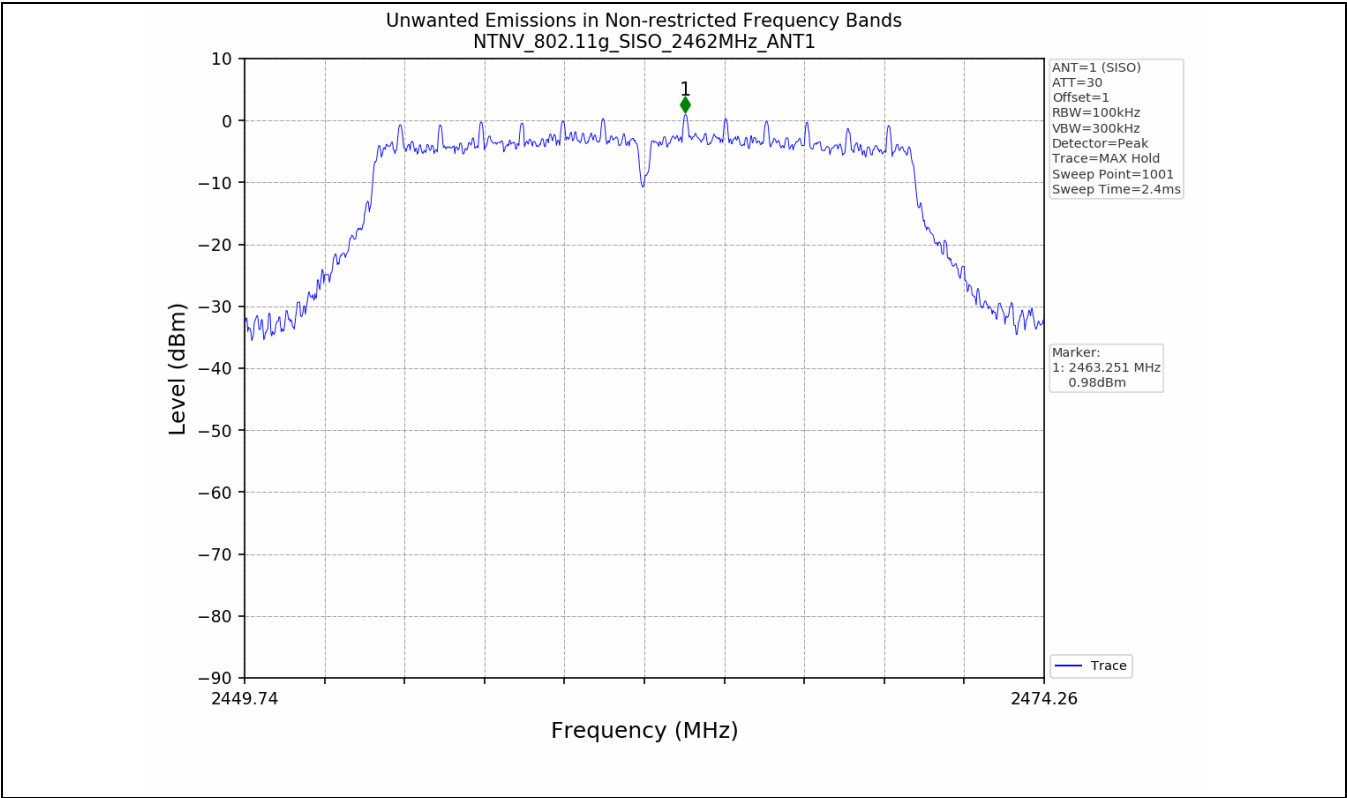
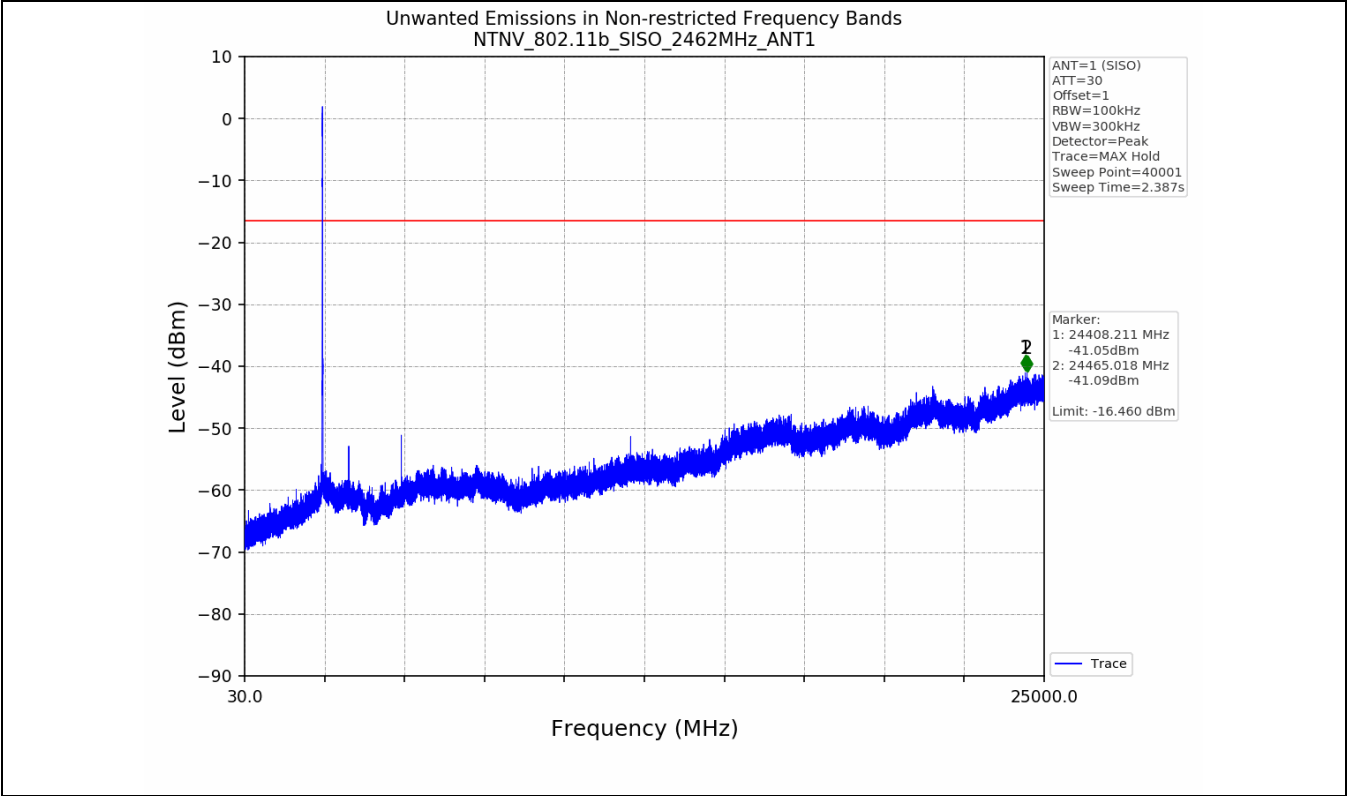
| Test Mode     | Frequency (MHz) | TX Type | ANT No. | Spurious Conducted Emission (dBm) | Limits (dBm) | Verdict |
|---------------|-----------------|---------|---------|-----------------------------------|--------------|---------|
| 802.11b       | 2412            | SISO    | 1       | Refer to test graph               | -16.46       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -16.46       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -16.46       | PASS    |
| 802.11g       | 2412            | SISO    | 1       | Refer to test graph               | -19.02       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -19.02       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -19.02       | PASS    |
| 802.11n(HT20) | 2412            | SISO    | 1       | Refer to test graph               | -18.31       | PASS    |
|               | 2437            | SISO    | 1       | Refer to test graph               | -18.31       | PASS    |
|               | 2462            | SISO    | 1       | Refer to test graph               | -18.31       | PASS    |

### 4.2 Test Graph

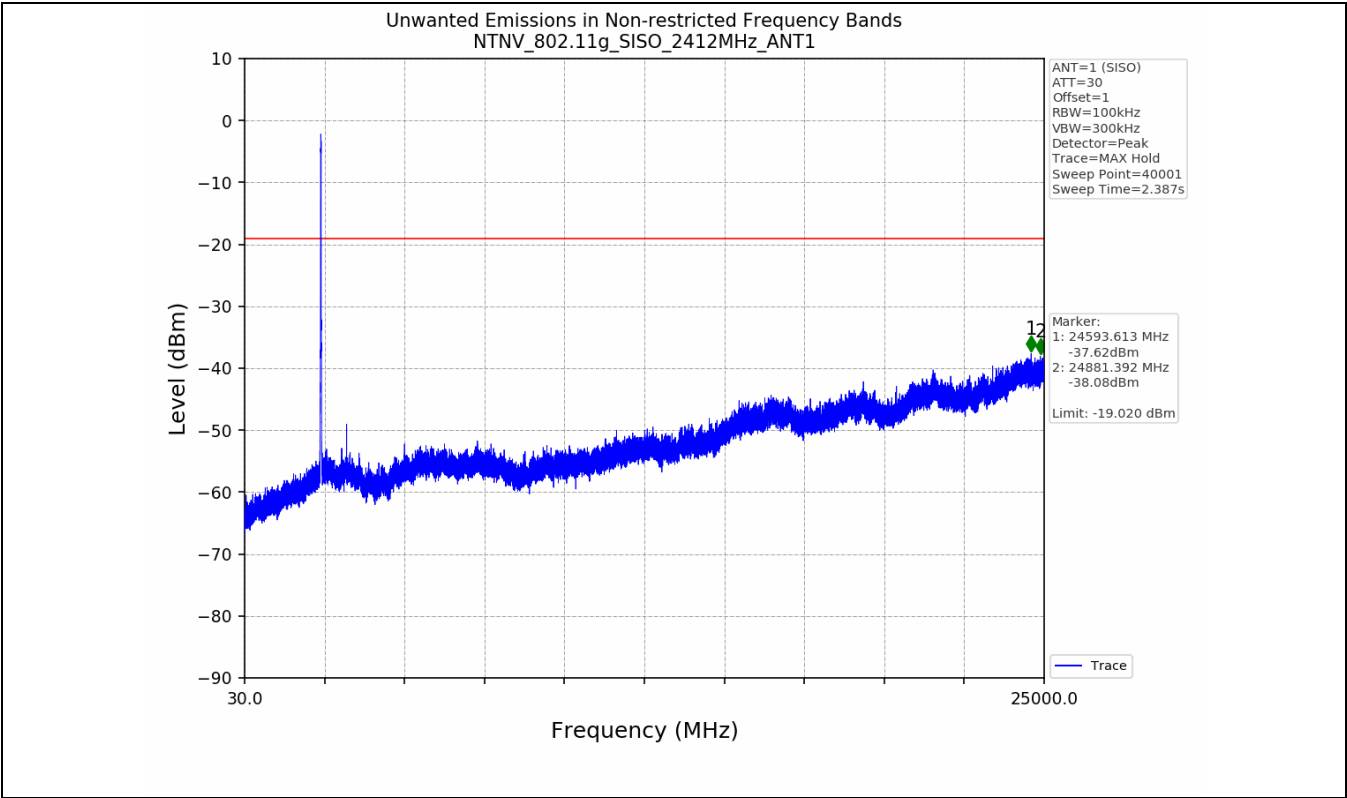
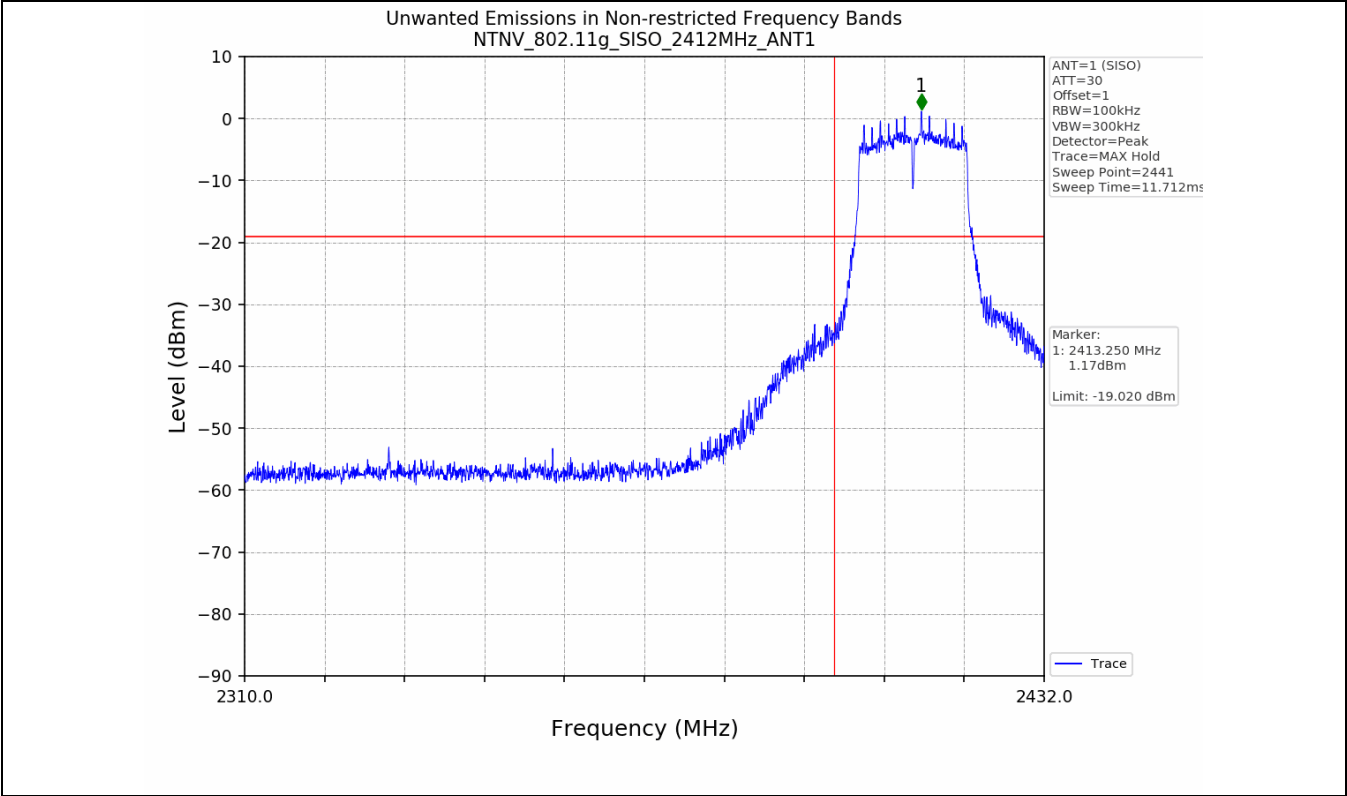


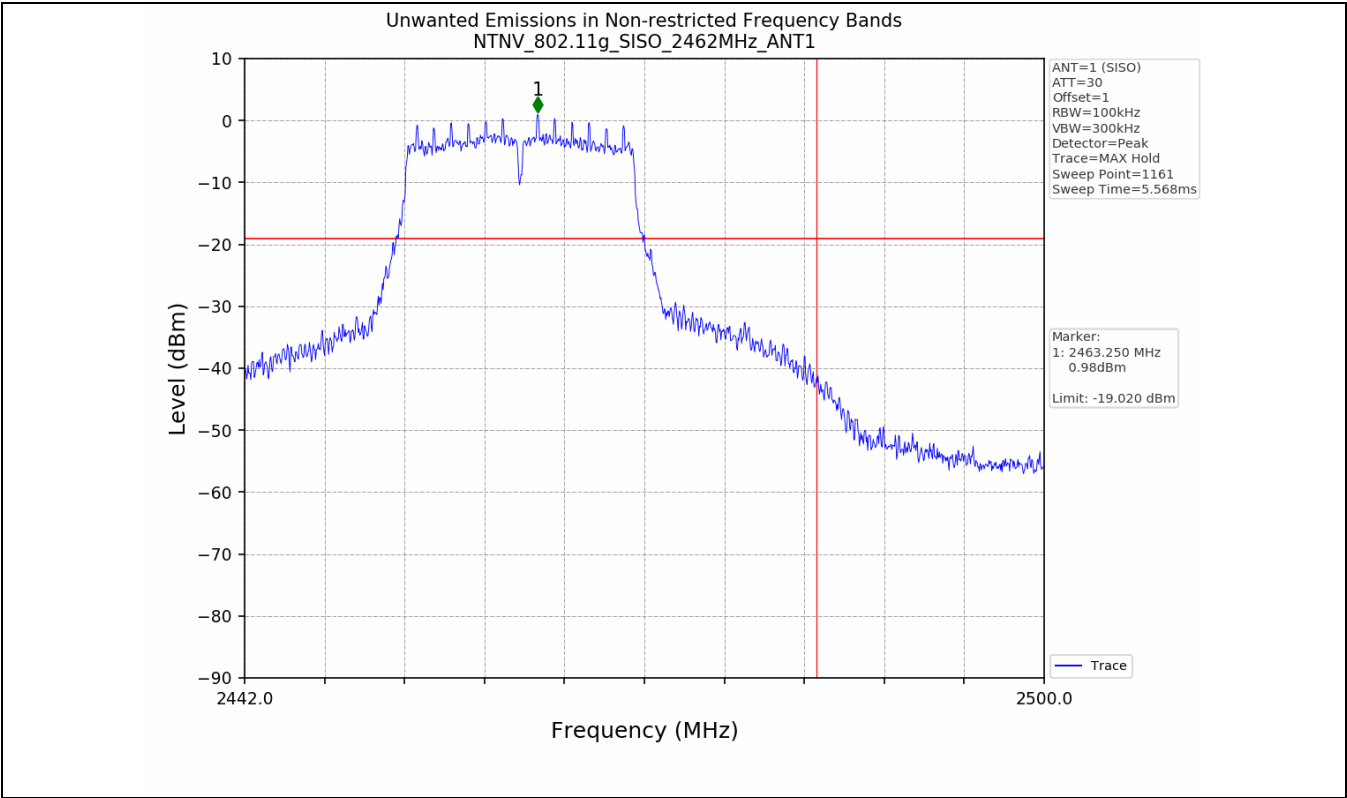
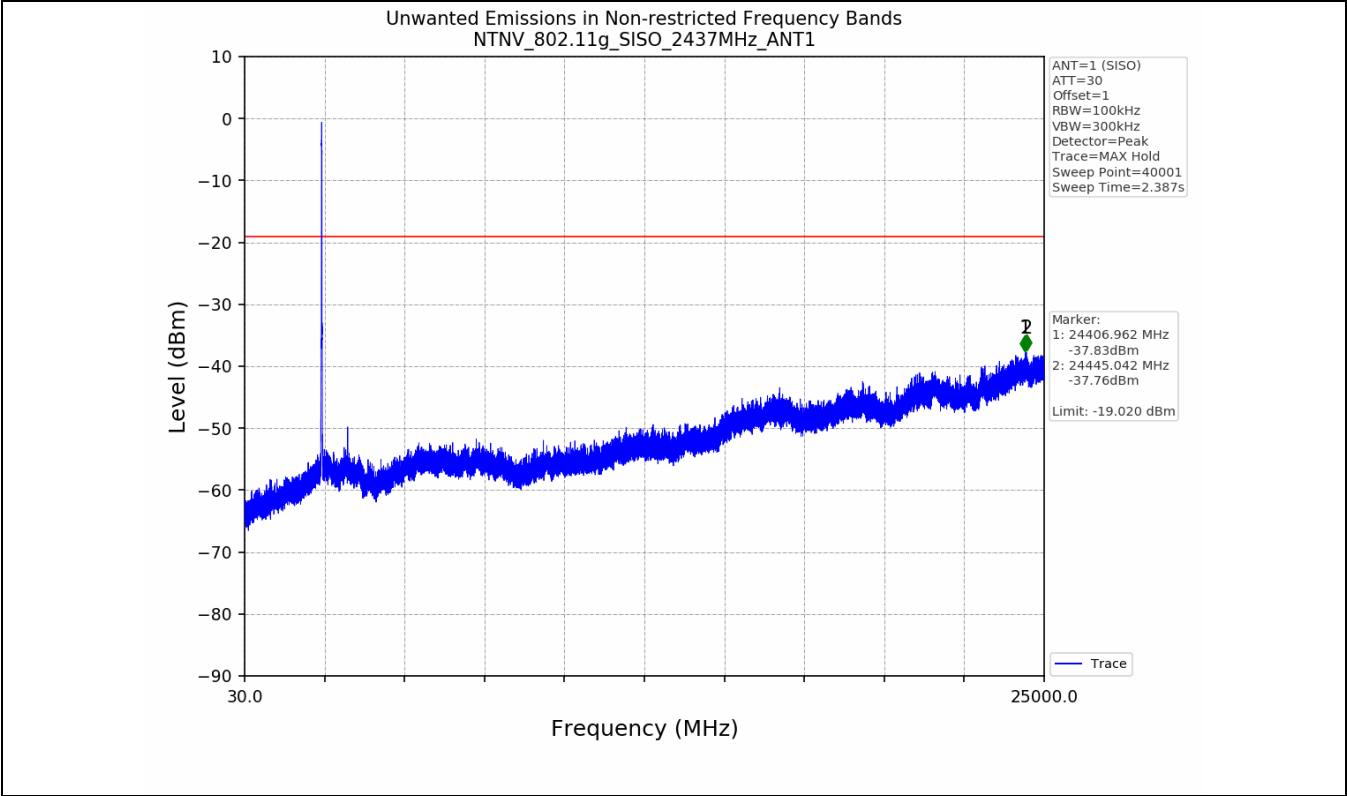


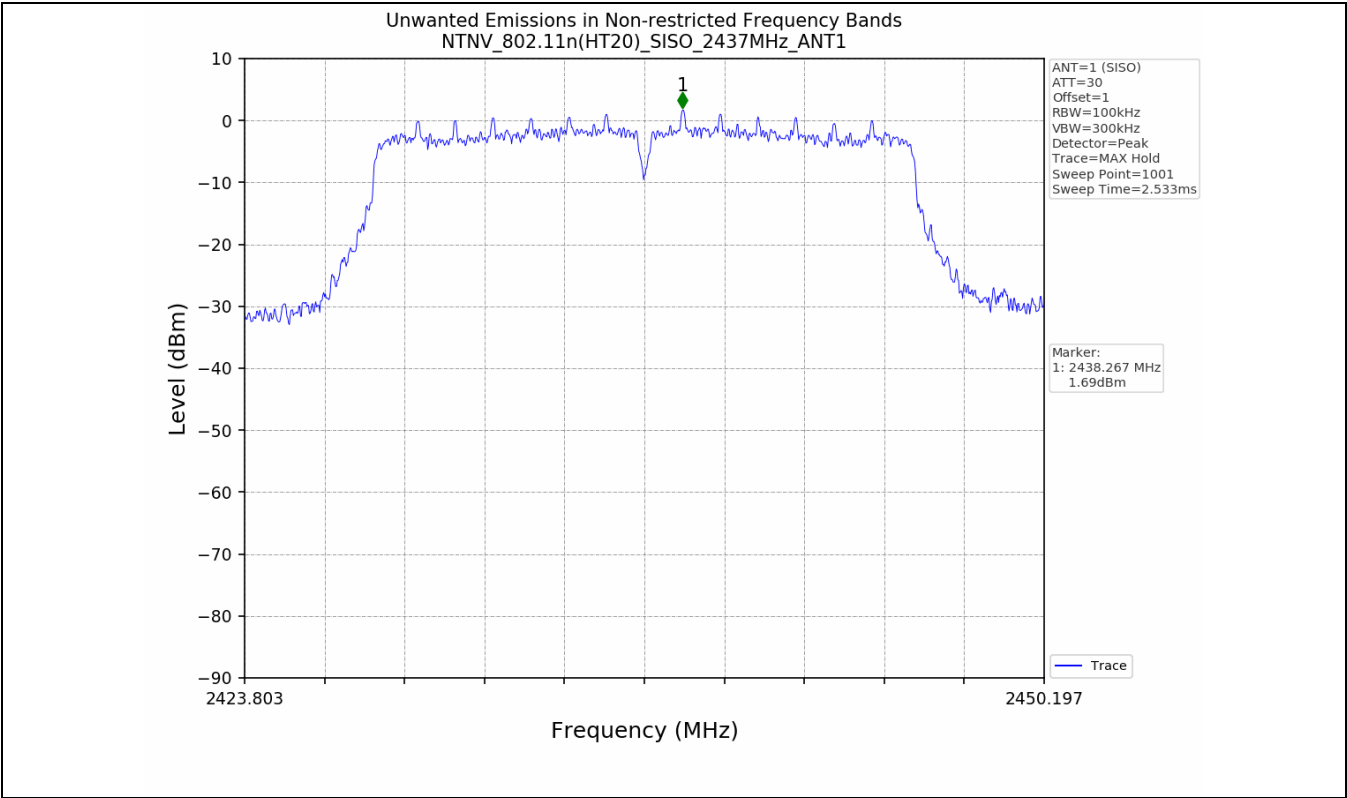
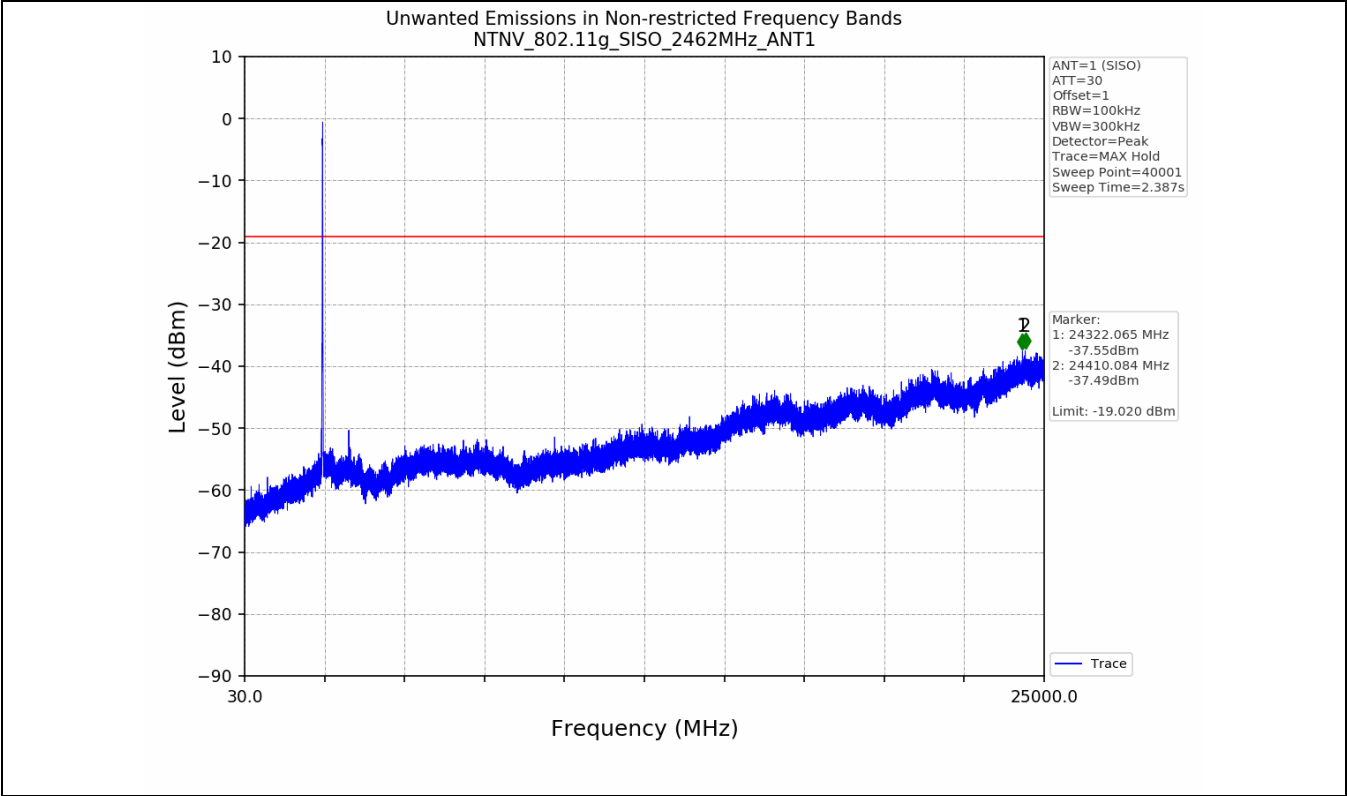


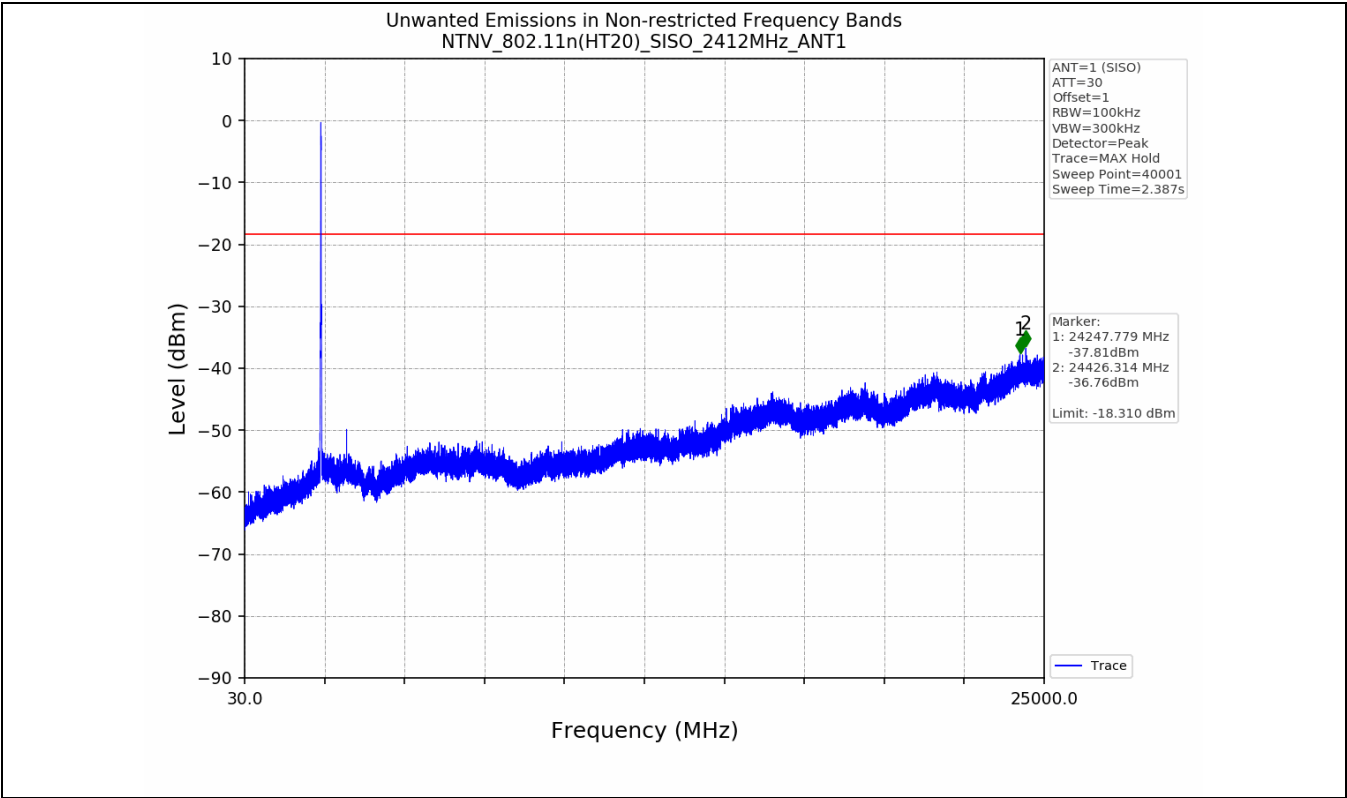
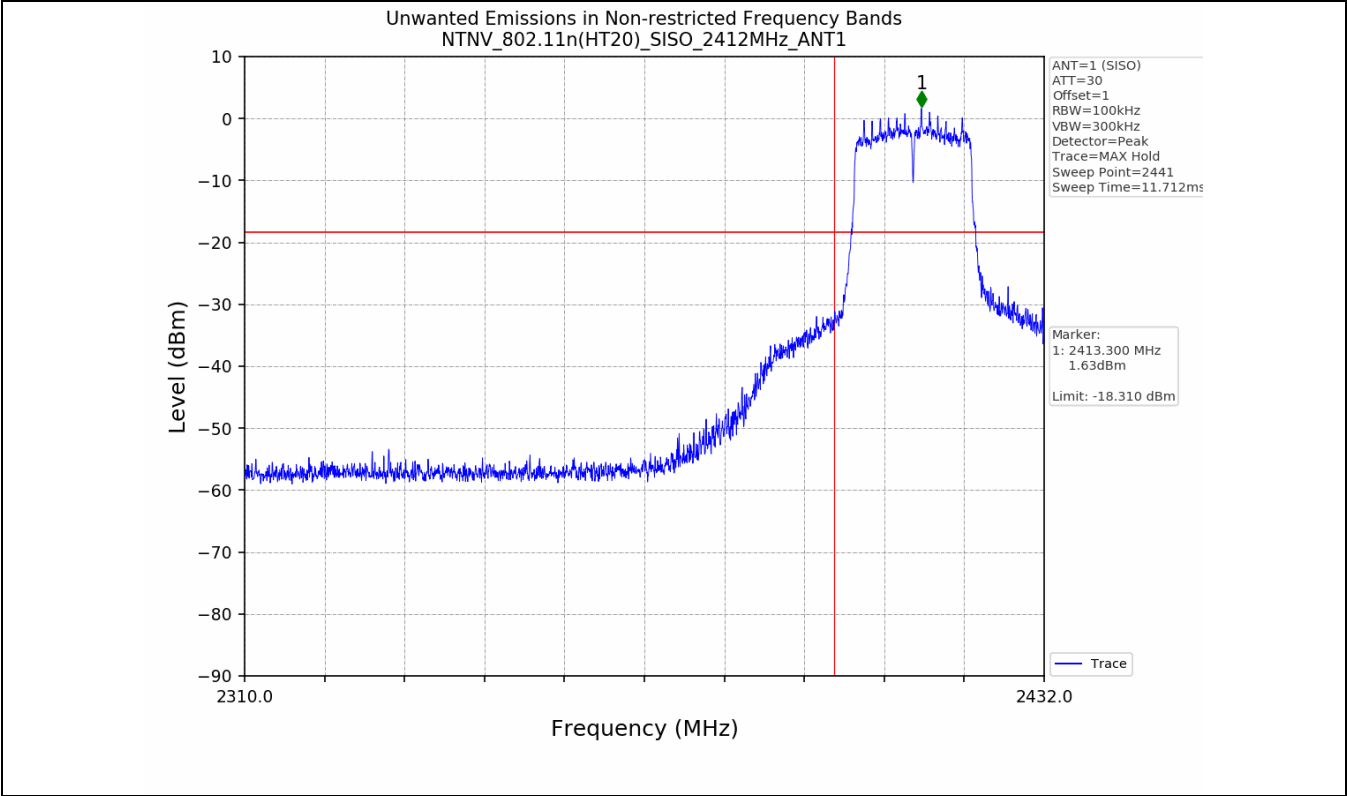


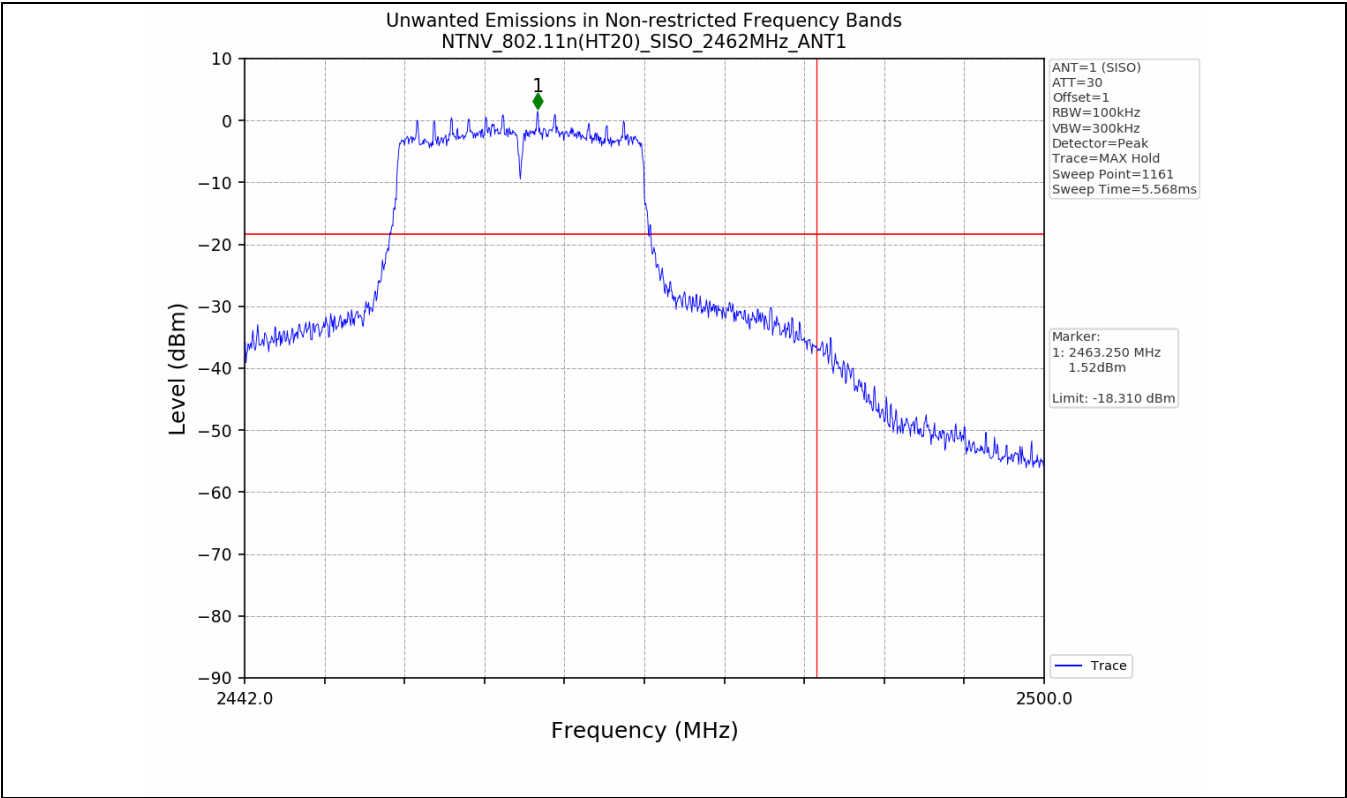
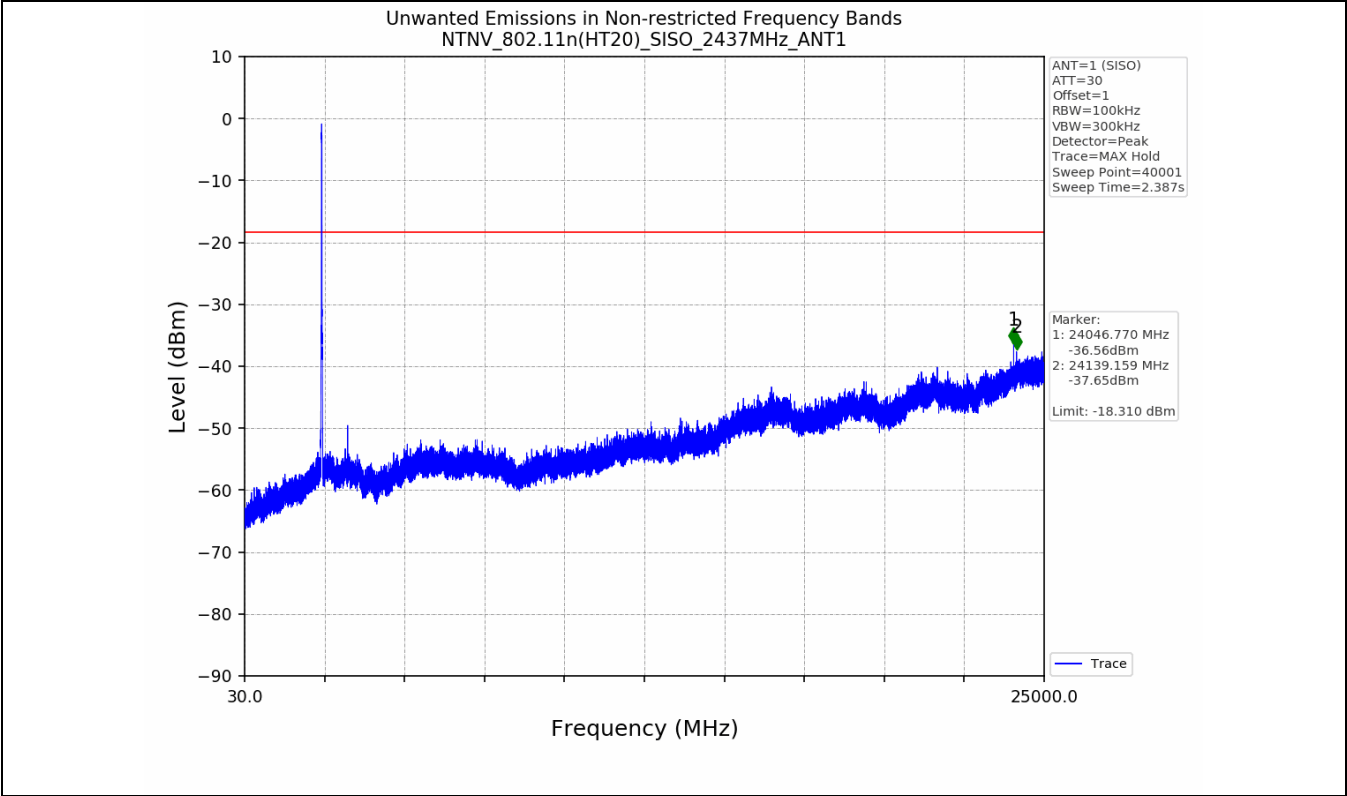




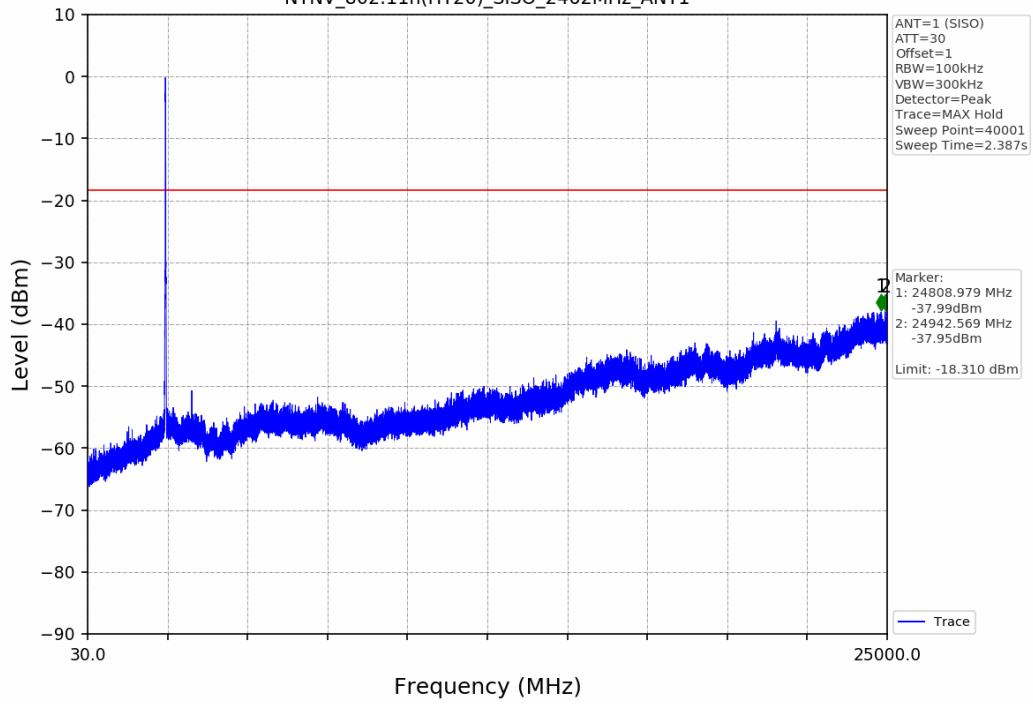








Unwanted Emissions in Non-restricted Frequency Bands  
NTNV\_802.11n(HT20)\_SISO\_2462MHz\_ANT1



# 5. Frequency Error

## 5.1 Test Result

| Test Mode | Frequency (MHz) | TX Type | ANT | Measured Frequency (MHz) |             | Verdict |
|-----------|-----------------|---------|-----|--------------------------|-------------|---------|
|           |                 |         |     | Test Result              | Limit       |         |
| 802.11b   | 2412            | SISO    | 1   | 2412.00                  | 2400-2483.5 | PASS    |
|           | 2437            | SISO    | 1   | 2437.02                  | 2400-2483.5 | PASS    |

## 5.2 Test Graph

